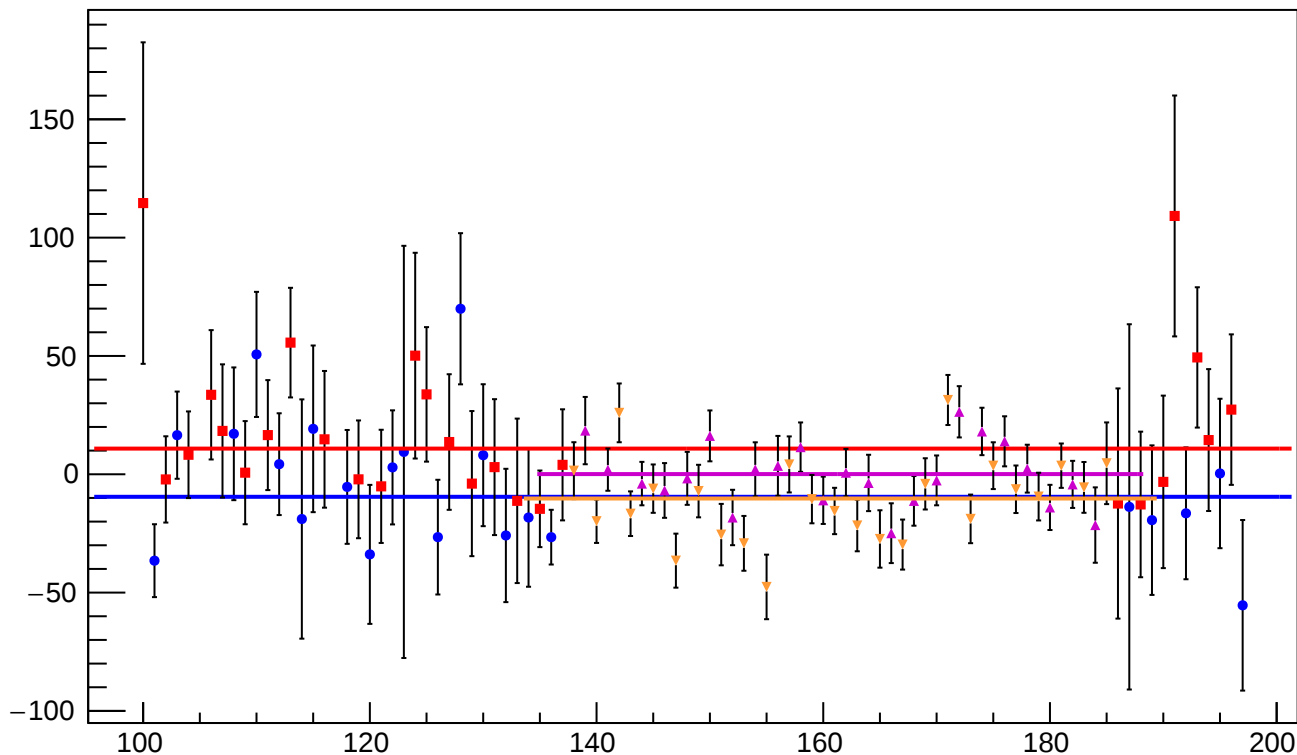


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.518 ± 5.278

$\chi^2/\text{NDF}: 24.8/21$

Left Out: -10.238 ± 2.170

$\chi^2/\text{NDF}: 58.1/24$

Right Out: 10.850 ± 5.215

$\chi^2/\text{NDF}: 19.8/25$

Left In: 0.080 ± 2.251

$\chi^2/\text{NDF}: 29.9/22$

Left: -5.266 ± 1.562

$\chi^2/\text{NDF}: 98.9/47$

Right: 0.789 ± 3.710

$\chi^2/\text{NDF}: 52.1/47$

In: -1.396 ± 2.070

$\chi^2/\text{NDF}: 57.5/44$

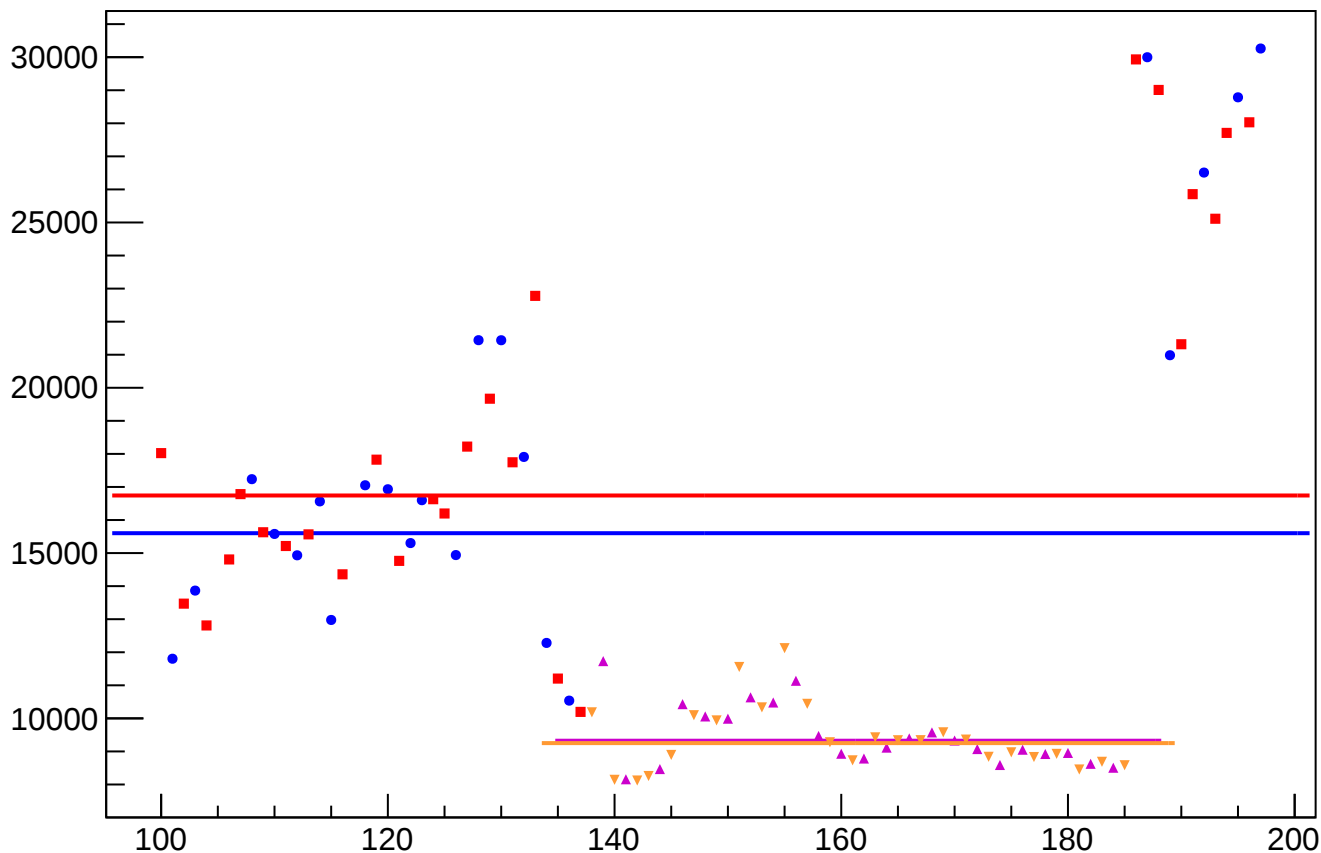
Out: -7.125 ± 2.004

$\chi^2/\text{NDF}: 91.8/50$

All: -4.354 ± 1.440

$\chi^2/\text{NDF}: 153.3/95$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 15601.478+/-3.732 χ^2/NDF : 1852783.1/21

Left Out: 9251.811+/-1.535 χ^2/NDF : 332323.3/24

Right Out: 16741.932+/-3.687 χ^2/NDF : 1934252.7/25

Left In: 9323.983+/-1.591 χ^2/NDF : 275717.0/22

Left: 9286.587+/-1.105 χ^2/NDF : 609106.1/47

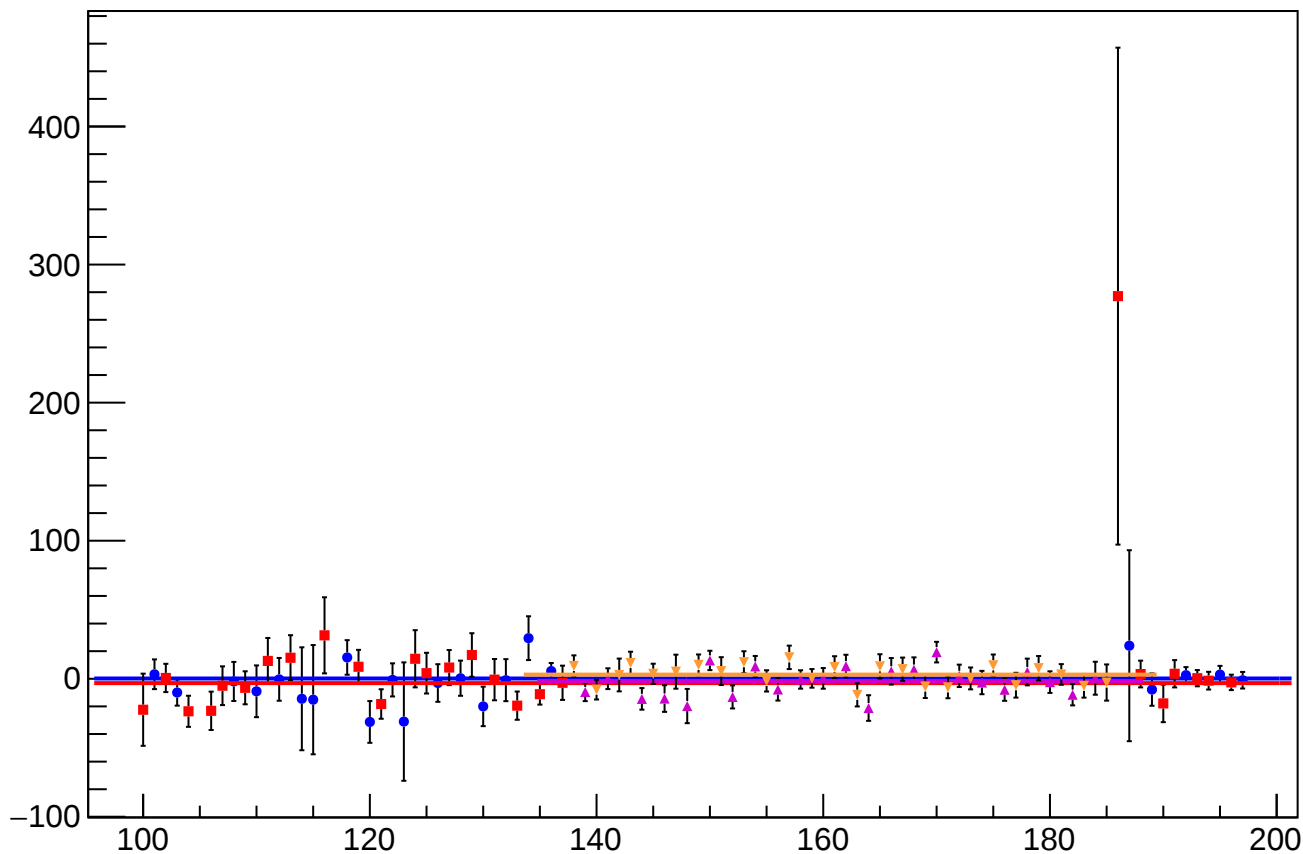
Right: 16178.575+/-2.623 χ^2/NDF : 3834288.3/47

In: 10289.760+/-1.464 χ^2/NDF : 4522474.0/44

Out: 10357.579+/-1.417 χ^2/NDF : 5783549.0/50

All: 10324.777+/-1.018 χ^2/NDF : 10307131.2

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.210 $\pm$ 2.261 χ^2/NDF : 15.5/21

Left Out: 3.027 $\pm$ 1.661 χ^2/NDF : 18.6/24

Right Out: -3.129 $\pm$ 2.098 χ^2/NDF : 25.0/25

Left In: -1.588 $\pm$ 1.703 χ^2/NDF : 35.5/22

Left: 0.777 $\pm$ 1.189 χ^2/NDF : 57.8/47

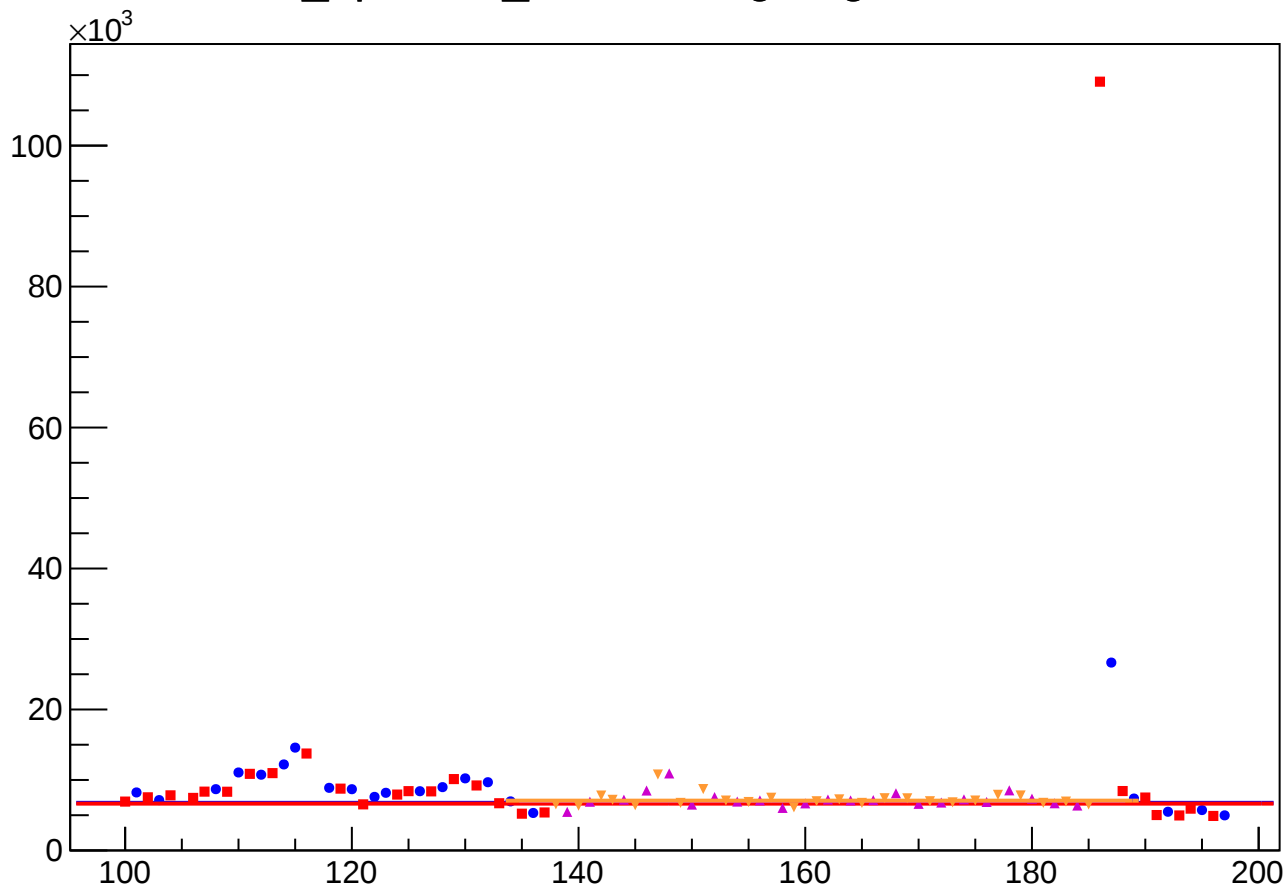
Right: -1.584 $\pm$ 1.538 χ^2/NDF : 41.6/47

In: -0.938 $\pm$ 1.360 χ^2/NDF : 51.4/44

Out: 0.656 $\pm$ 1.302 χ^2/NDF : 48.8/50

All: -0.106 $\pm$ 0.941 χ^2/NDF : 100.9/95

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6755.436 ± 1.599 $\chi^2/\text{NDF}: 1438875.2/21$

Left Out: 7064.457 ± 1.174 $\chi^2/\text{NDF}: 386814.9/24$

Right Out: 6644.494 ± 1.484 $\chi^2/\text{NDF}: 2061102.9/25$

Left In: 7014.572 ± 1.204 $\chi^2/\text{NDF}: 525313.7/22$

Left: 7040.137 ± 0.841 $\chi^2/\text{NDF}: 913008.5/47$

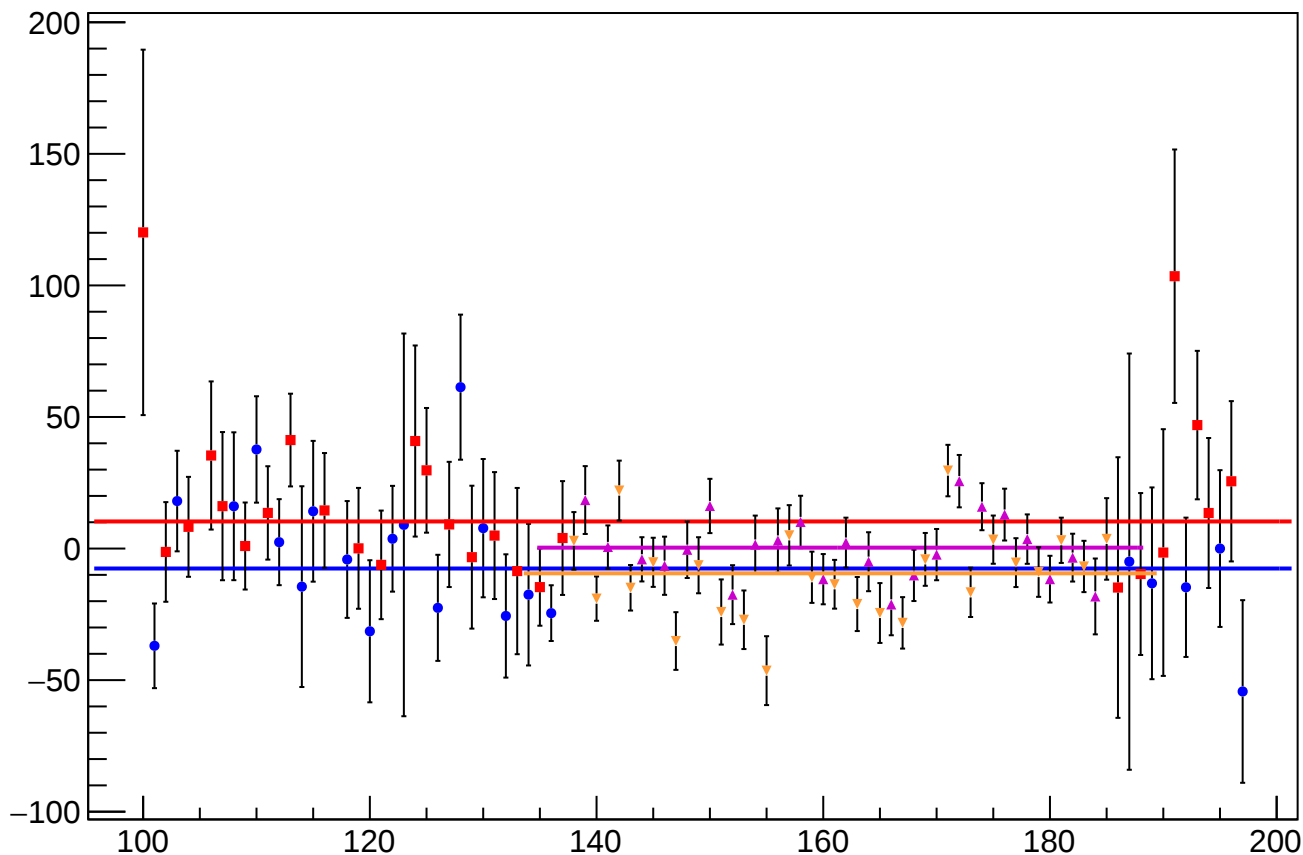
Right: 6695.831 ± 1.087 $\chi^2/\text{NDF}: 3502565.5/47$

In: 6920.795 ± 0.962 $\chi^2/\text{NDF}: 1980955.1/44$

Out: 6902.716 ± 0.921 $\chi^2/\text{NDF}: 2497183.2/50$

All: 6911.362 ± 0.665 $\chi^2/\text{NDF}: 4478322.7/95$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.582 ± 4.776 χ^2/NDF : 25.5/21

Left Out: -9.411 ± 2.021 χ^2/NDF : 58.8/24

Right Out: 10.301 ± 4.674 χ^2/NDF : 19.5/25

Left In: 0.344 ± 2.100 χ^2/NDF : 29.9/22

Left: -4.722 ± 1.456 χ^2/NDF : 99.9/47

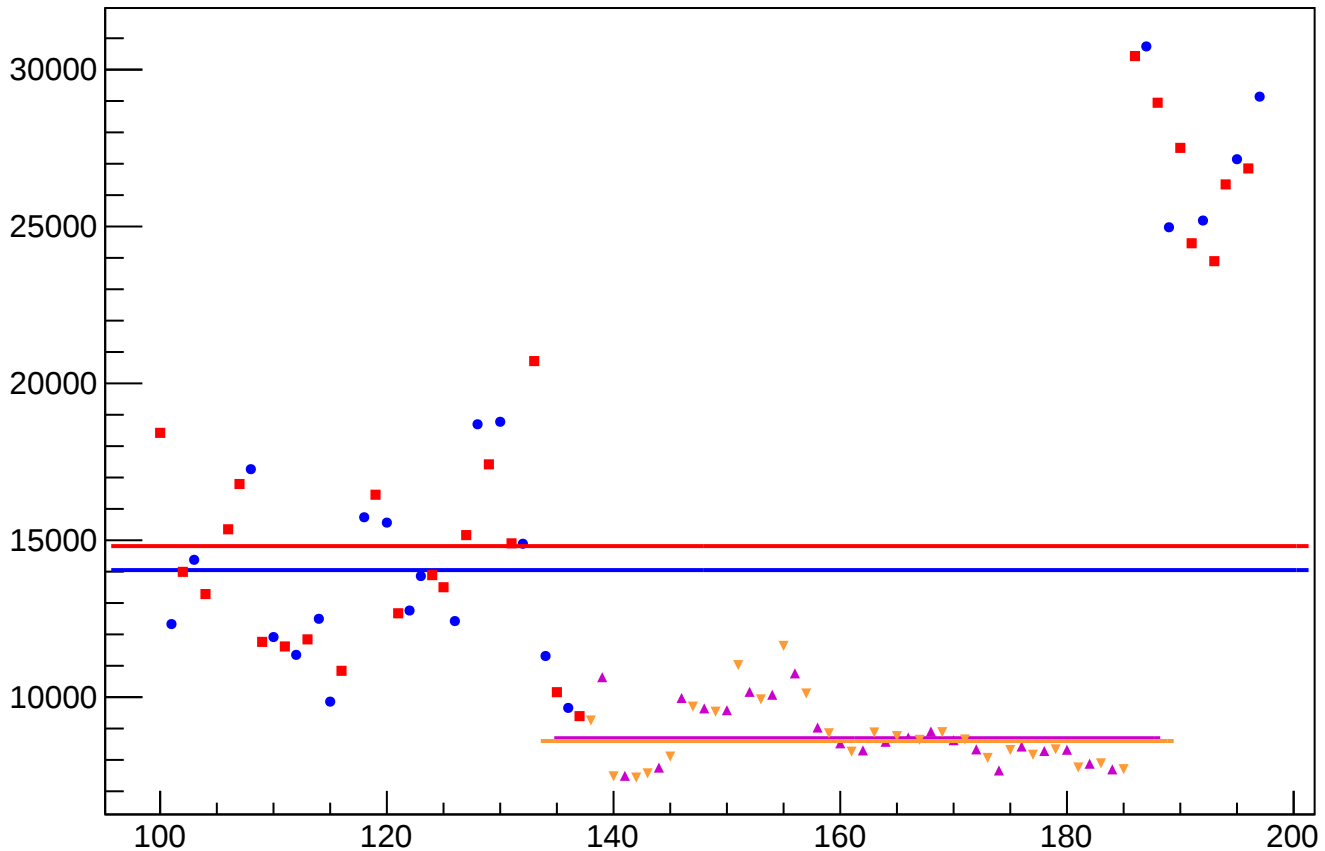
Right: 1.552 ± 3.340 χ^2/NDF : 52.1/47

In: -0.941 ± 1.923 χ^2/NDF : 57.7/44

Out: -6.306 ± 1.855 χ^2/NDF : 93.2/50

All: -3.720 ± 1.335 χ^2/NDF : 155.0/95

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14049.422+/-3.377 χ^2/NDF : 2094368.5/21

Left Out: 8602.220+/-1.429 χ^2/NDF : 438805.2/24

Right Out: 14813.894+/-3.305 χ^2/NDF : 2438111.1/25

Left In: 8691.203+/-1.485 χ^2/NDF : 365254.6/22

Left: 8644.996+/-1.030 χ^2/NDF : 805923.5/47

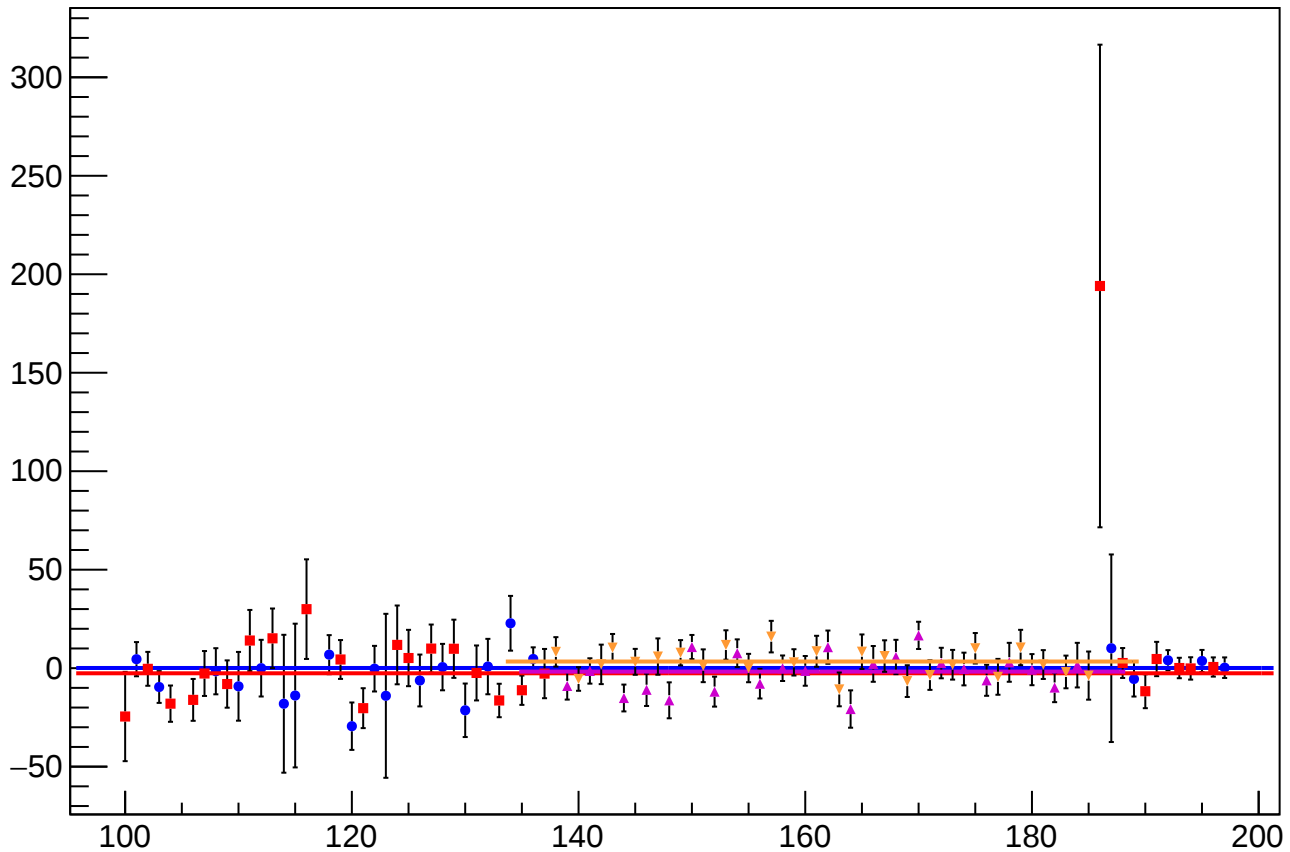
Right: 14439.894+/-2.362 χ^2/NDF : 4558655.6/47

In: 9559.725+/-1.360 χ^2/NDF : 4569163.3/44

Out: 9580.671+/-1.312 χ^2/NDF : 5853016.2/50

All: 9570.573+/-0.944 χ^2/NDF : 10422302.4/95

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.097 ± 2.010 χ^2/NDF : 16.5/21

Left Out: 3.374 ± 1.552 χ^2/NDF : 17.2/24

Right Out: -2.601 ± 1.834 χ^2/NDF : 25.7/25

Left In: -1.756 ± 1.607 χ^2/NDF : 33.5/22

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

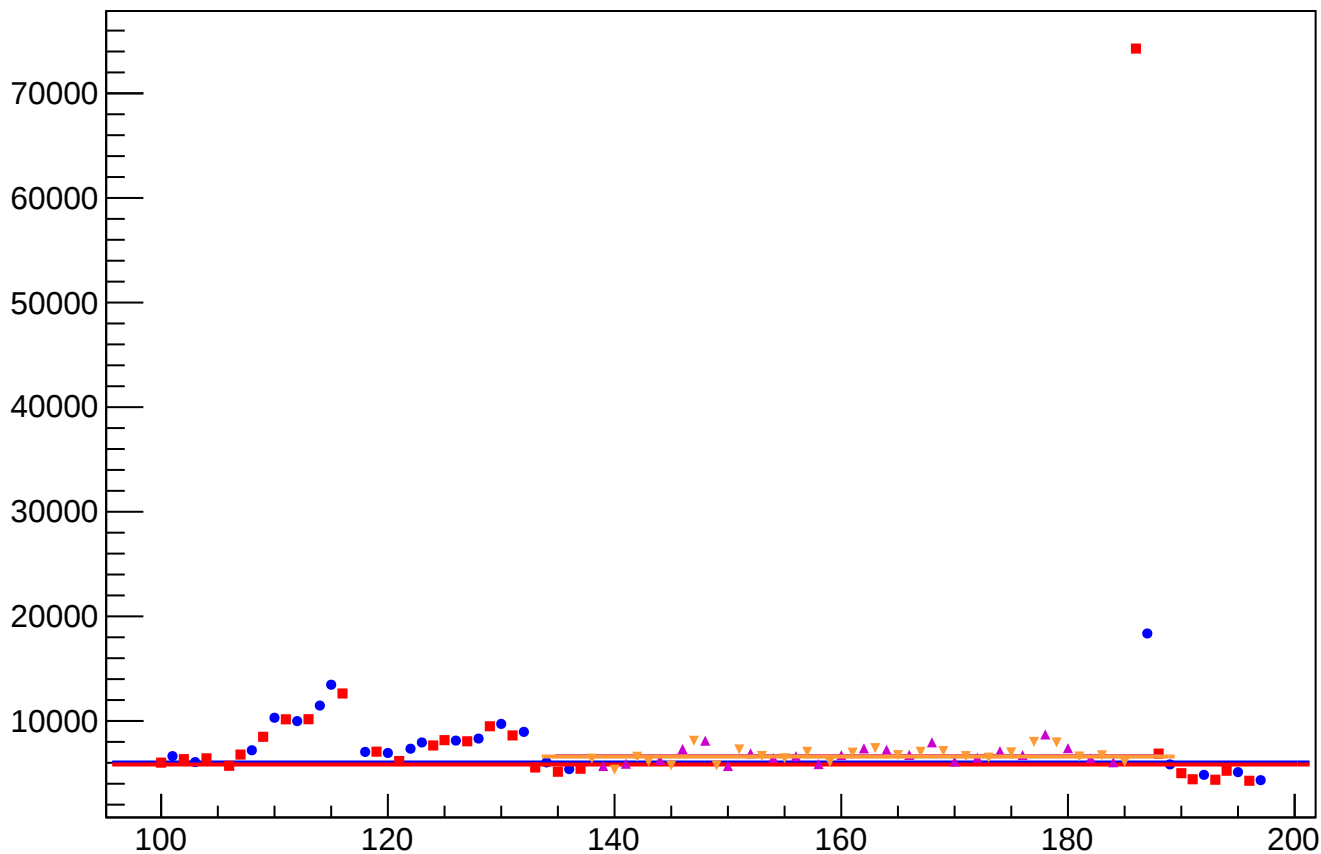
Right: -1.375 ± 1.355 χ^2/NDF : 43.1/47

In: -1.034 ± 1.255 χ^2/NDF : 50.5/44

Out: 0.882 ± 1.185 χ^2/NDF : 49.0/50

All: -0.021 ± 0.862 χ^2/NDF : 100.8/95

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6030.951+/-1.421 χ^2/NDF : 1381806.1/21

Left Out: 6603.953+/-1.097 χ^2/NDF : 395247.5/24

Right Out: 5837.933+/-1.297 χ^2/NDF : 2097348.2/25

Left In: 6637.155+/-1.136 χ^2/NDF : 415547.5/22

Left: 6619.974+/-0.789 χ^2/NDF : 811236.9/47

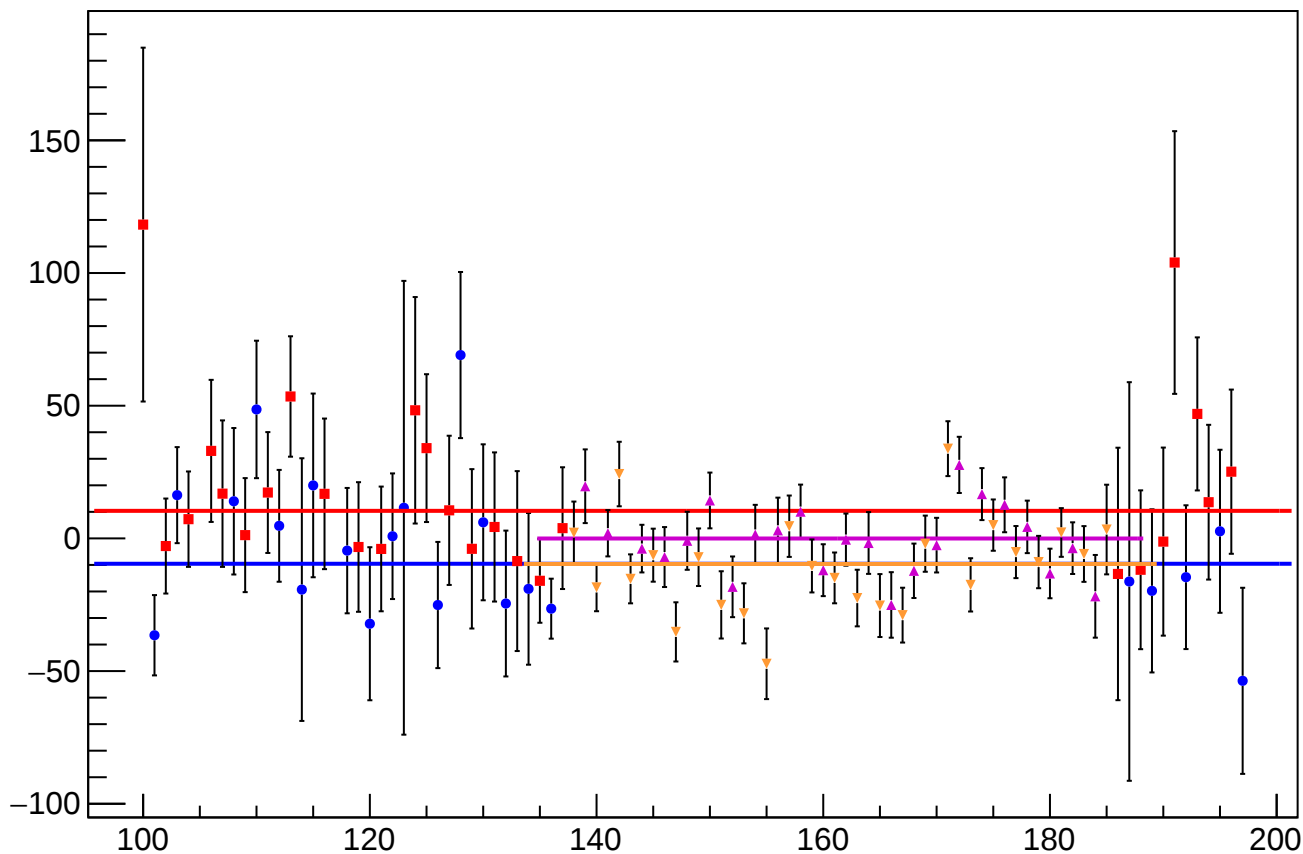
Right: 5925.625+/-0.958 χ^2/NDF : 3489216.6/47

In: 6400.793+/-0.888 χ^2/NDF : 1908321.0/44

Out: 6284.387+/-0.838 χ^2/NDF : 2695905.5/50

All: 6339.229+/-0.609 χ^2/NDF : 4613323.6/95

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.559 ± 5.169 $\chi^2/\text{NDF}: 24.7/21$

Left Out: -9.640 ± 2.122 $\chi^2/\text{NDF}: 59.9/24$

Right Out: 10.381 ± 5.106 $\chi^2/\text{NDF}: 19.9/25$

Left In: -0.042 ± 2.200 $\chi^2/\text{NDF}: 30.8/22$

Left: -5.015 ± 1.527 $\chi^2/\text{NDF}: 100.5/47$

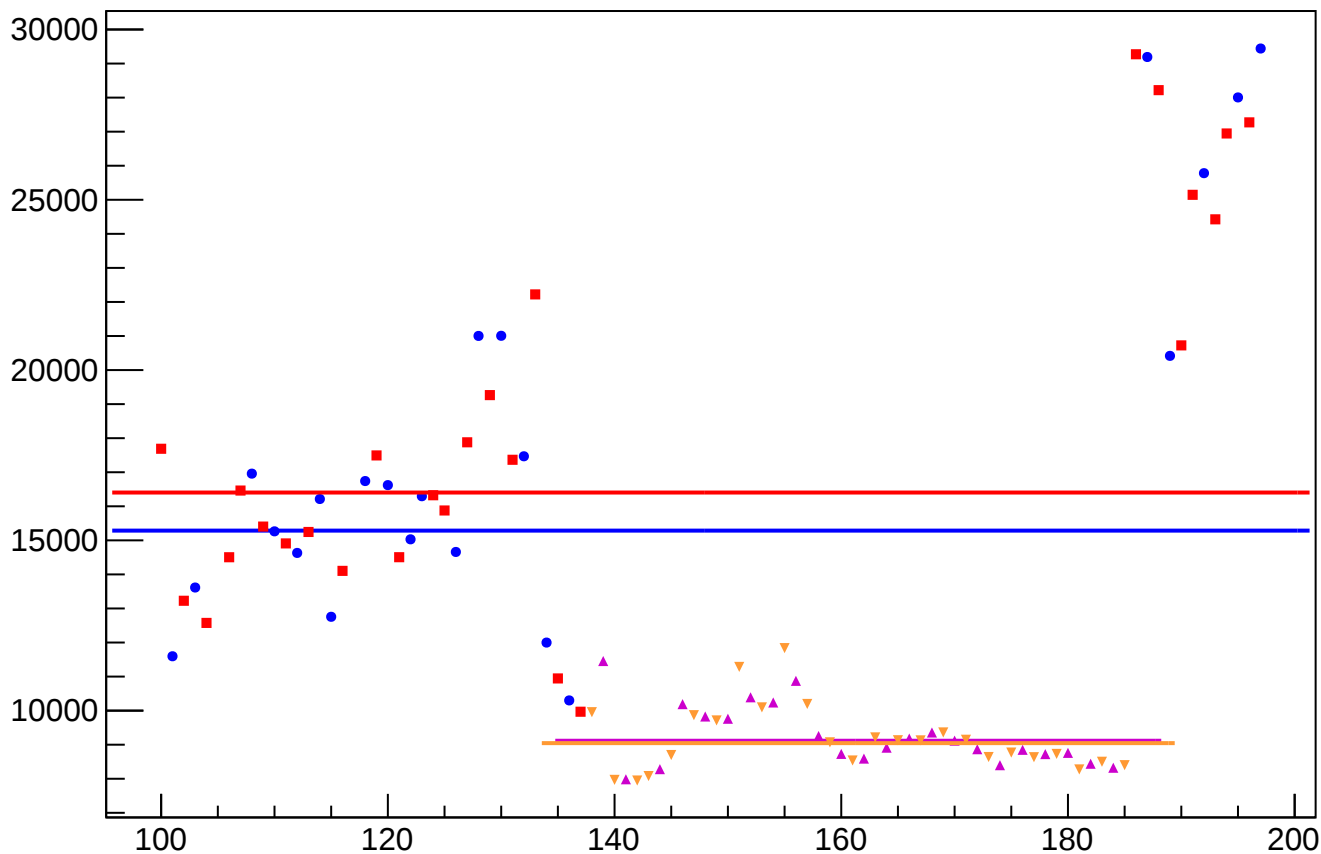
Right: 0.532 ± 3.632 $\chi^2/\text{NDF}: 52.1/47$

In: -1.502 ± 2.024 $\chi^2/\text{NDF}: 58.3/44$

Out: -6.692 ± 1.959 $\chi^2/\text{NDF}: 92.9/50$

All: -4.182 ± 1.408 $\chi^2/\text{NDF}: 154.6/95$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 15285.998 +/- 3.655 χ^2/NDF : 1834583.8/21

Left Out: 9045.871 +/- 1.500 χ^2/NDF : 328508.5/24

Right Out: 16404.252 +/- 3.611 χ^2/NDF : 1907598.2/25

Left In: 9115.817 +/- 1.556 χ^2/NDF : 272471.8/22

Left: 9079.576 +/- 1.080 χ^2/NDF : 602027.6/47

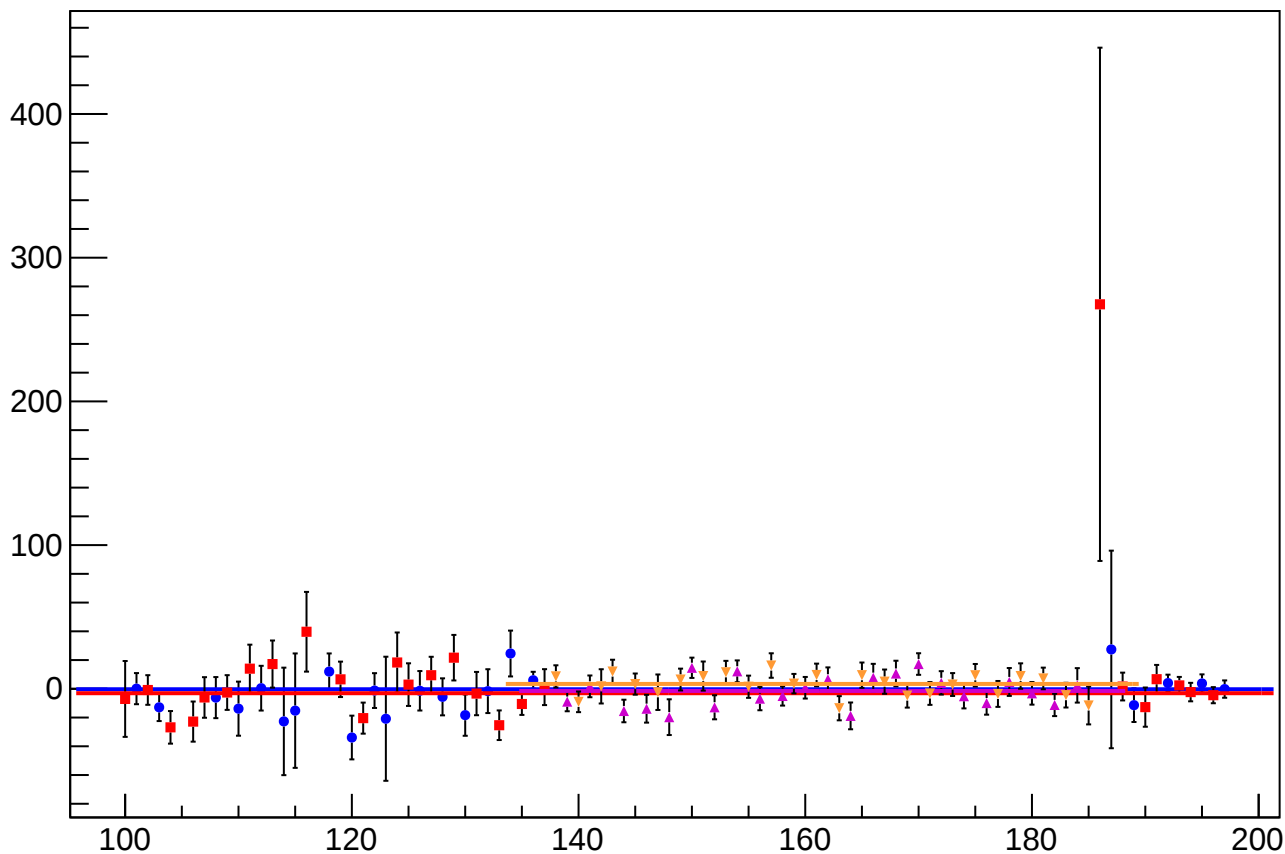
Right: 15851.902 +/- 2.569 χ^2/NDF : 3789560.3/47

In: 10062.360 +/- 1.431 χ^2/NDF : 4520107.6/44

Out: 10129.274 +/- 1.385 χ^2/NDF : 5777862.6/50

All: 10096.909 +/- 0.996 χ^2/NDF : 10299098.5

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -0.313 $\pm$ 2.273 χ^2/NDF : 16.3/21

Left Out: 3.387 $\pm$ 1.668 χ^2/NDF :19.4/24

Right Out: -3.071 $\pm$ 2.109 χ^2/NDF : 29.9/25

Left In: -1.479 $\pm$ 1.710 χ^2/NDF :36.7/22

Left: 1.015 $\pm$ 1.194 χ^2/NDF : 60.3/47

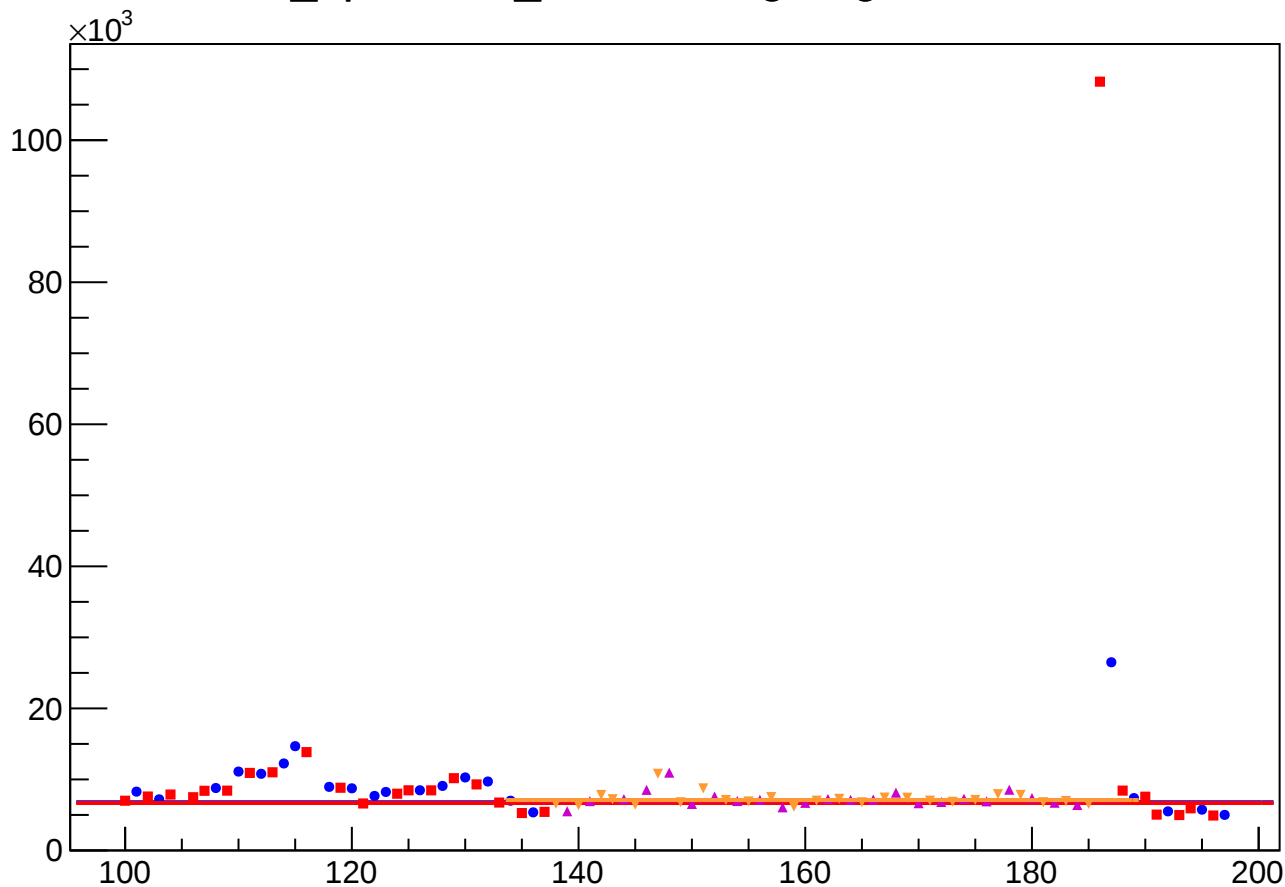
Right: -1.795 $\pm$ 1.546 χ^2/NDF : 47.0/47

In: -1.058 $\pm$ 1.367 χ^2/NDF :53.2/44

Out: 0.903 $\pm$ 1.308 χ^2/NDF :55.1/50

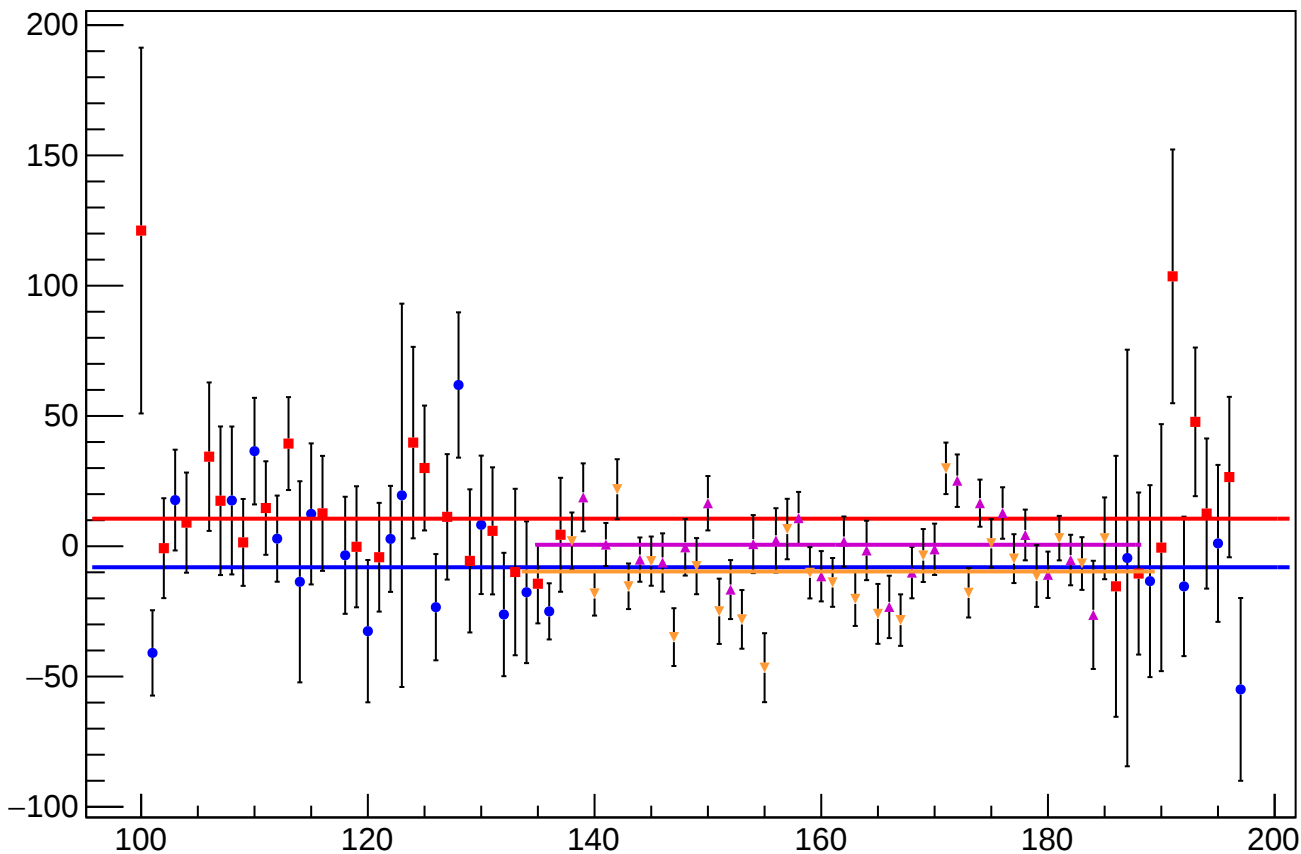
All: -0.035 $\pm$ 0.945 χ^2/NDF : 109.4/95

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6790.813 $\pm$ 1.607	χ^2/NDF : 1444139.5/21	Left: 7072.425 $\pm$ 0.844	χ^2/NDF : 900219.9/47
Left Out: 7096.350 $\pm$ 1.179	χ^2/NDF : 381942.1/24	Right: 6731.908 $\pm$ 1.093	χ^2/NDF : 3511164.8/47
Right Out: 6681.162 $\pm$ 1.492	χ^2/NDF : 2064524.3/25	In: 6954.549 $\pm$ 0.966	χ^2/NDF : 1977832.5/44
Left In: 7047.269 $\pm$ 1.209	χ^2/NDF : 517433.5/22	Out: 6936.641 $\pm$ 0.925	χ^2/NDF : 2494142.0/50
		All: 6945.205 $\pm$ 0.668	χ^2/NDF : 4472153.8/95

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.056 $\pm$ 4.839 χ^2/NDF : 26.1/21

Left Out: -9.670 $\pm$ 2.061 χ^2/NDF : 57.9/24

Right Out: 10.580 $\pm$ 4.738 χ^2/NDF : 18.5/25

Left In: 0.564 $\pm$ 2.144 χ^2/NDF : 29.7/22

Left: -4.755 $\pm$ 1.486 χ^2/NDF : 99.5/47

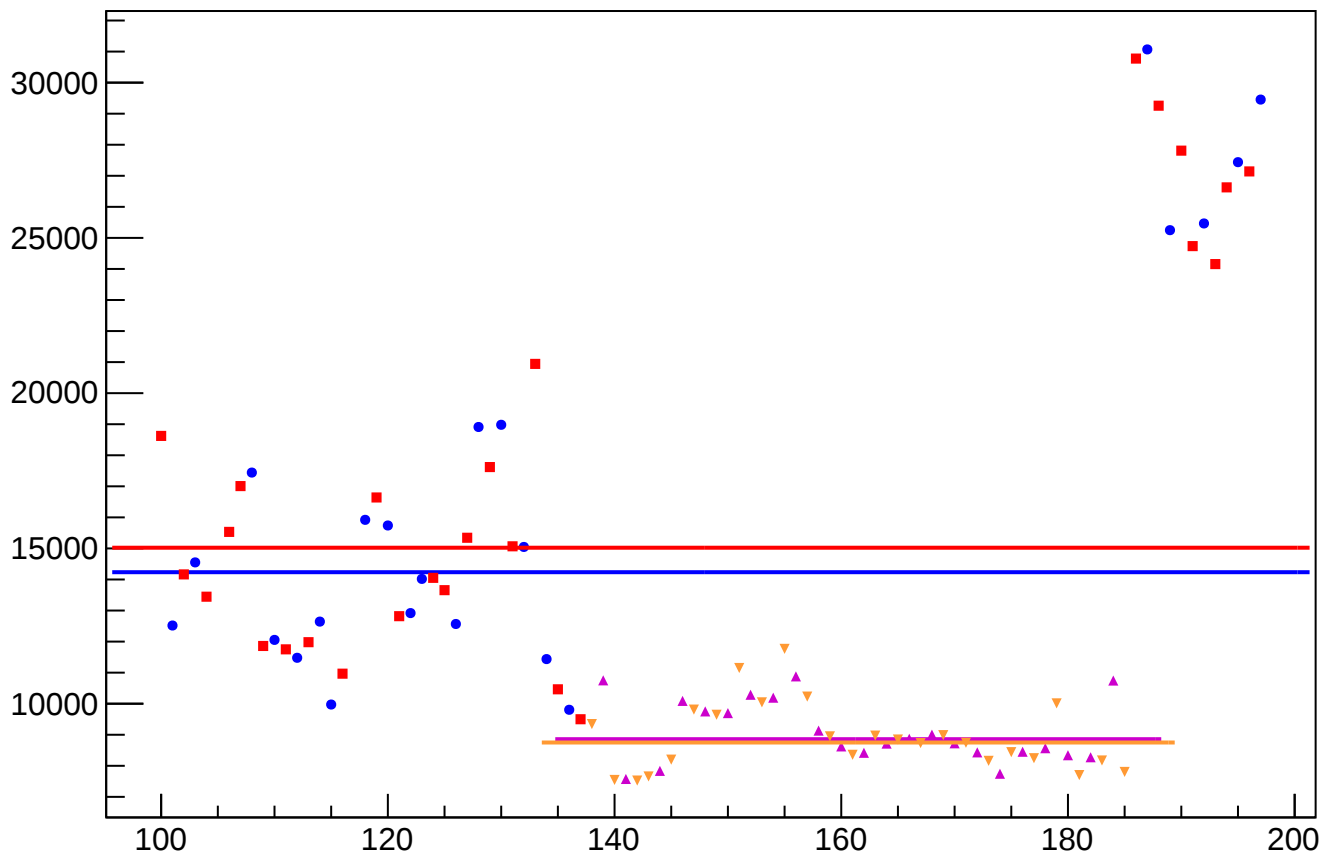
Right: 1.457 $\pm$ 3.385 χ^2/NDF : 52.2/47

In: -0.851 $\pm$ 1.960 χ^2/NDF : 58.5/44

Out: -6.450 $\pm$ 1.890 χ^2/NDF : 91.8/50

All: -3.752 $\pm$ 1.360 χ^2/NDF : 154.5/95

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 14234.588 $\pm$ 3.421 χ^2 /NDF: 2080968.8/21

Left Out: 8750.420 $\pm$ 1.457 χ^2 /NDF: 463880.1/24

Right Out: 15023.009 $\pm$ 3.351 χ^2 /NDF: 2412632.4/25

Left In: 8857.329 $\pm$ 1.516 χ^2 /NDF: 361778.8/22

Left: 8801.764 $\pm$ 1.050 χ^2 /NDF: 828244.3/47

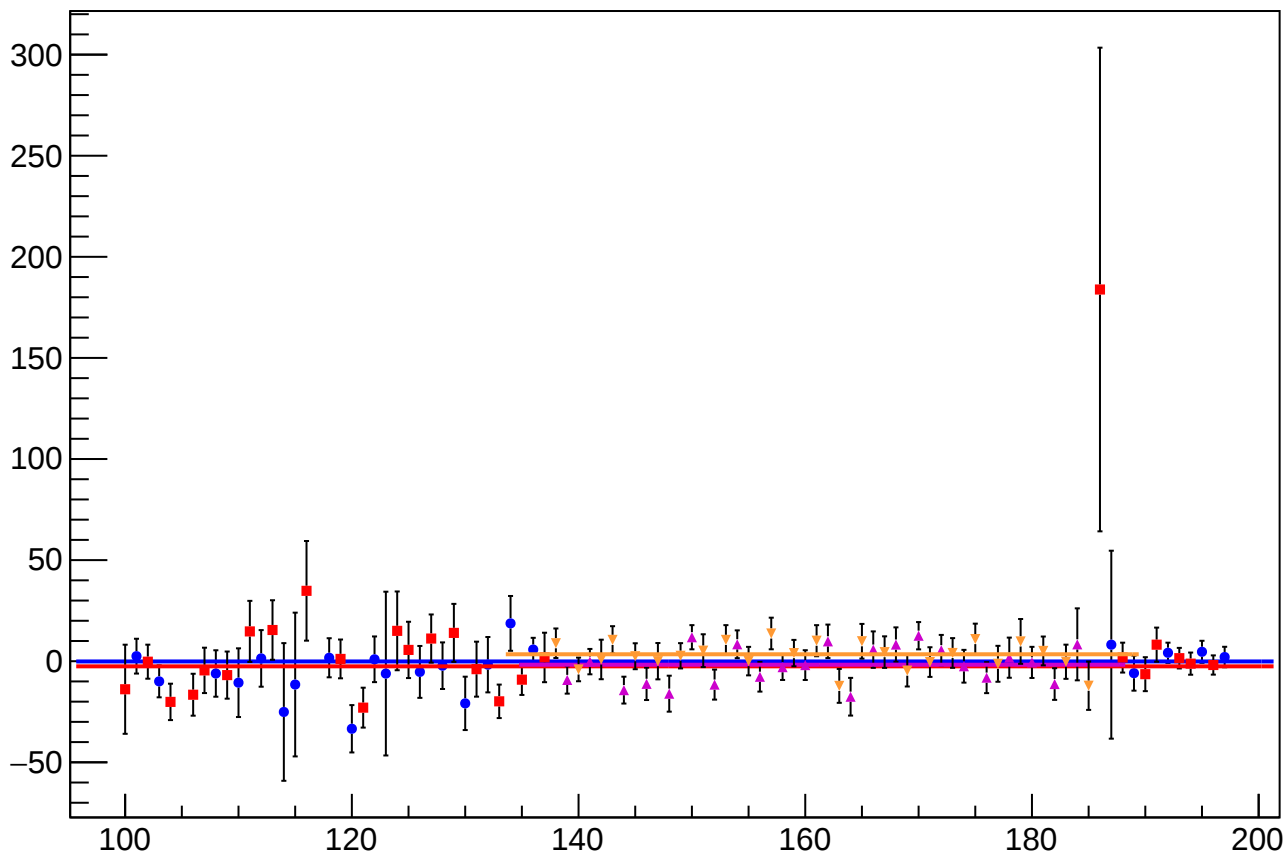
Right: 14637.046 $\pm$ 2.394 χ^2 /NDF: 4520707.2/47

In: 9739.599 $\pm$ 1.386 χ^2 /NDF: 4507541.4/44

Out: 9748.016 $\pm$ 1.336 χ^2 /NDF: 5823862.6/50

All: 9743.961 $\pm$ 0.962 χ^2 /NDF: 10331423.1/95

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -0.117 ± 1.961 χ^2/NDF : 18.9/21

Left Out: 3.433 ± 1.526 χ^2/NDF : 16.2/24

Right Out: -2.536 ± 1.792 χ^2/NDF : 30.1/25

Left In: -1.734 ± 1.586 χ^2/NDF : 33.6/22

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

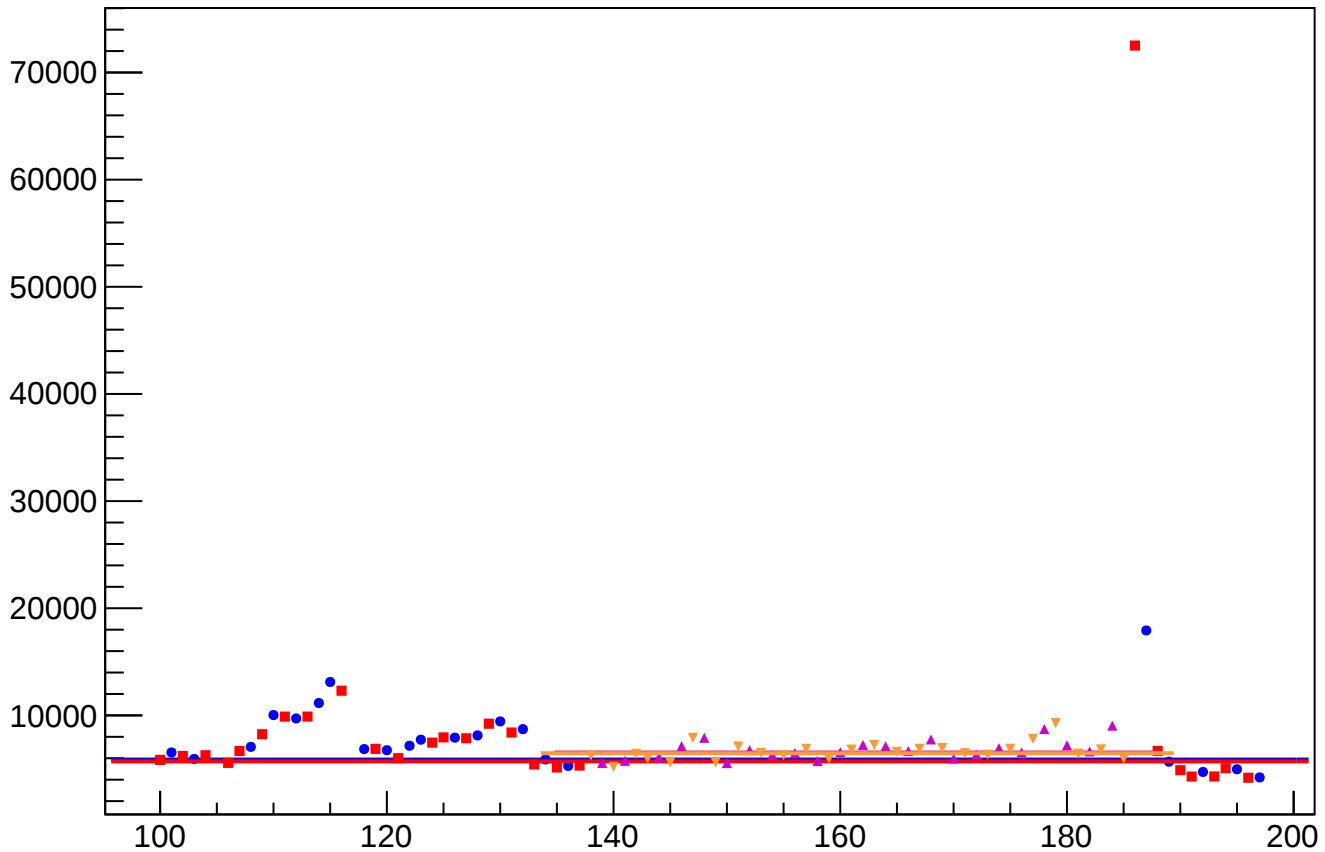
Right: -1.435 ± 1.323 χ^2/NDF : 49.8/47

In: -1.095 ± 1.233 χ^2/NDF : 52.9/44

Out: 0.924 ± 1.162 χ^2/NDF : 52.7/50

All: -0.025 ± 0.846 χ^2/NDF : 107.1/95

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5878.361+/-1.387 χ^2/NDF : 1389772.9/21

Left Out: 6468.872+/-1.079 χ^2/NDF : 487187.3/24

Right Out: 5700.152+/-1.267 χ^2/NDF : 2083831.0/25

Left In: 6530.954+/-1.121 χ^2/NDF : 464668.6/22

Left: 6498.713+/-0.777 χ^2/NDF : 953447.7/47

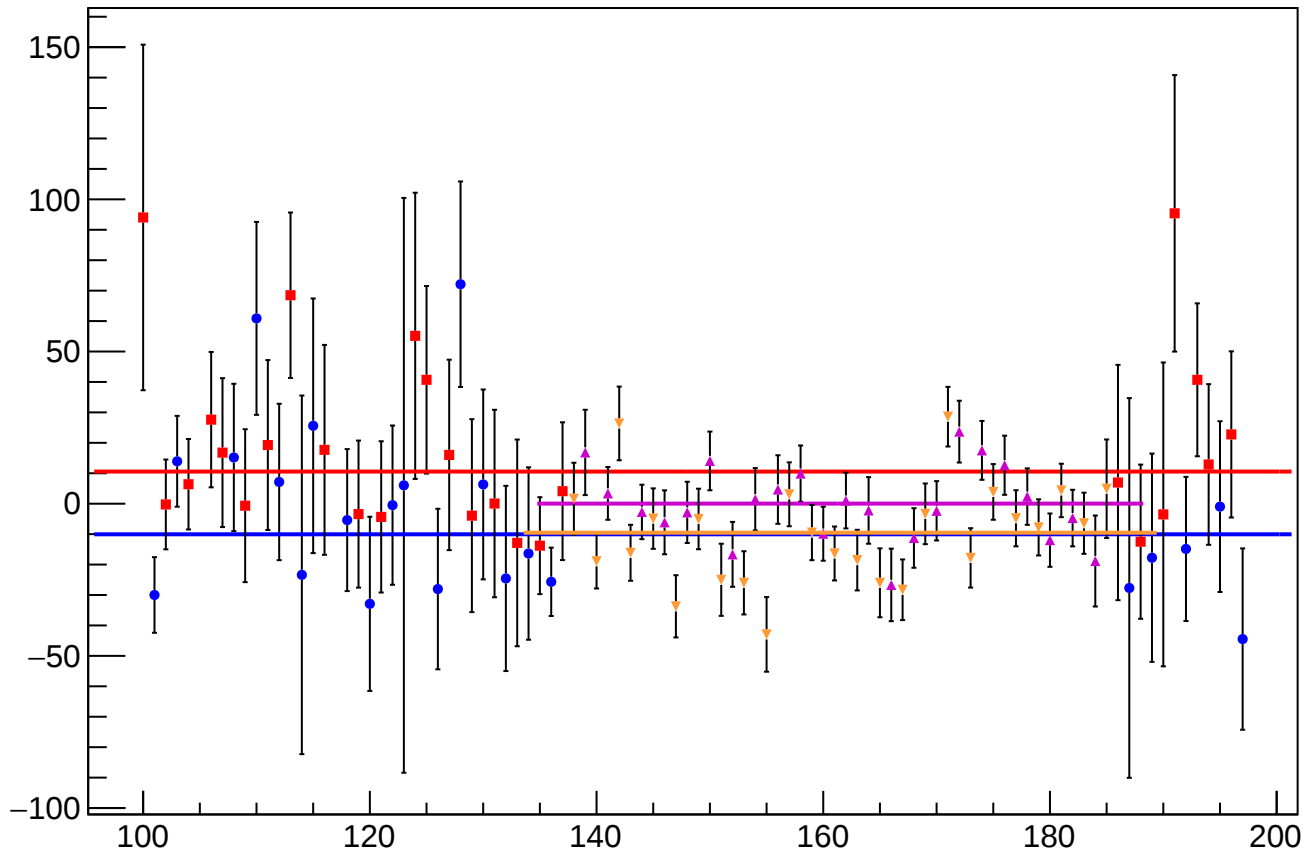
Right: 5781.237+/-0.935 χ^2/NDF : 3482604.9/47

In: 6272.937+/-0.872 χ^2/NDF : 1988349.3/44

Out: 6145.804+/-0.821 χ^2/NDF : 2784412.5/50

All: 6205.579+/-0.598 χ^2/NDF : 4784025.3/95

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -10.054 ± 5.027 χ^2/NDF : 23.8/21

Left Out: -9.528 ± 2.015 χ^2/NDF : 59.6/24

Right Out: 10.554 ± 4.979 χ^2/NDF : 20.2/25

Left In: 0.027 ± 2.080 χ^2/NDF : 29.9/22

Left: -4.902 ± 1.447 χ^2/NDF : 100.3/47

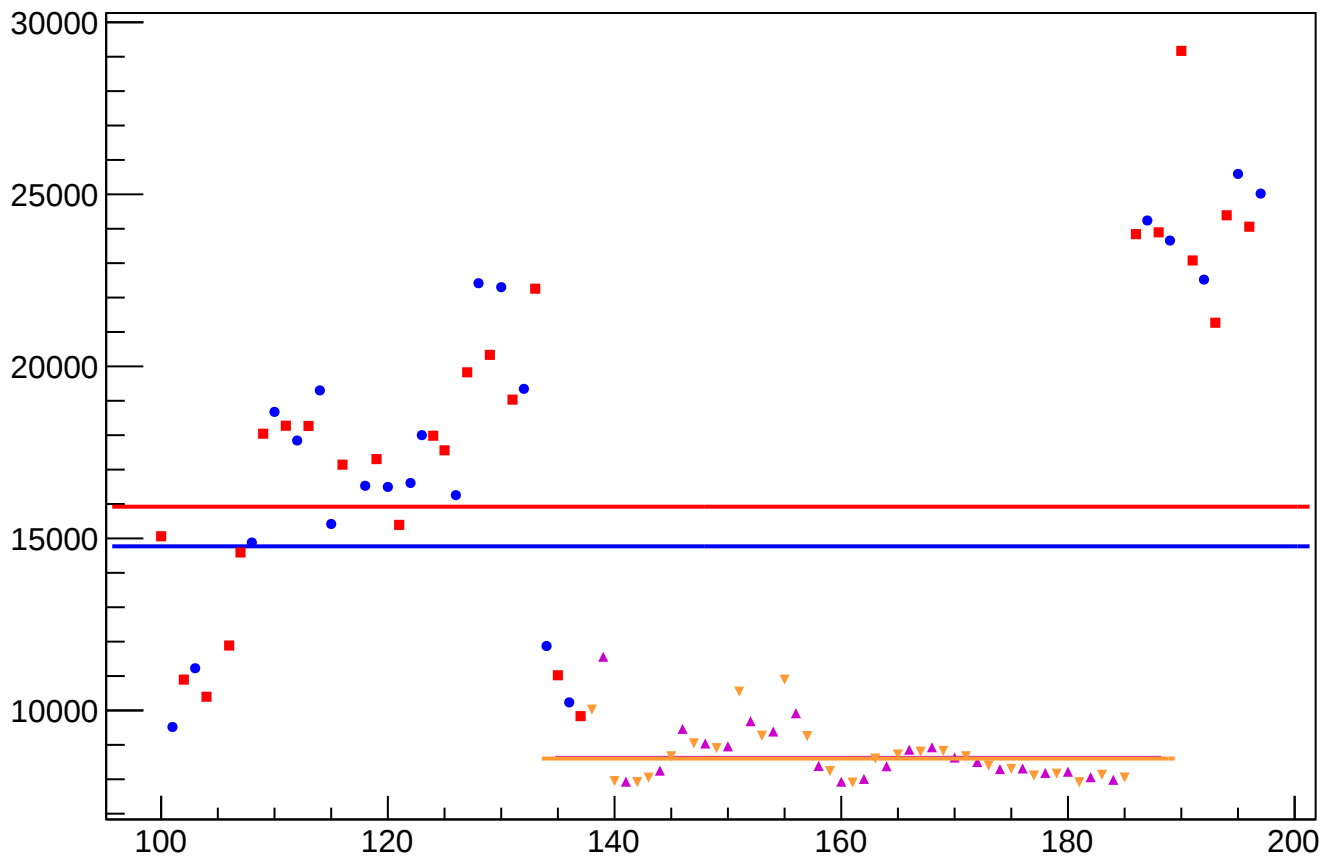
Right: 0.349 ± 3.538 χ^2/NDF : 52.5/47

In: -1.447 ± 1.922 χ^2/NDF : 57.1/44

Out: -6.701 ± 1.868 χ^2/NDF : 93.7/50

All: -4.149 ± 1.340 χ^2/NDF : 154.7/95

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 14770.059+/-3.555 χ^2/NDF : 2120268.9/21

Left Out: 8601.926+/-1.425 χ^2/NDF : 248903.5/24

Right Out: 15922.554+/-3.521 χ^2/NDF : 2084299.5/25

Left In: 8621.975+/-1.471 χ^2/NDF : 230824.4/22

Left: 8611.634+/-1.023 χ^2/NDF : 479823.8/47

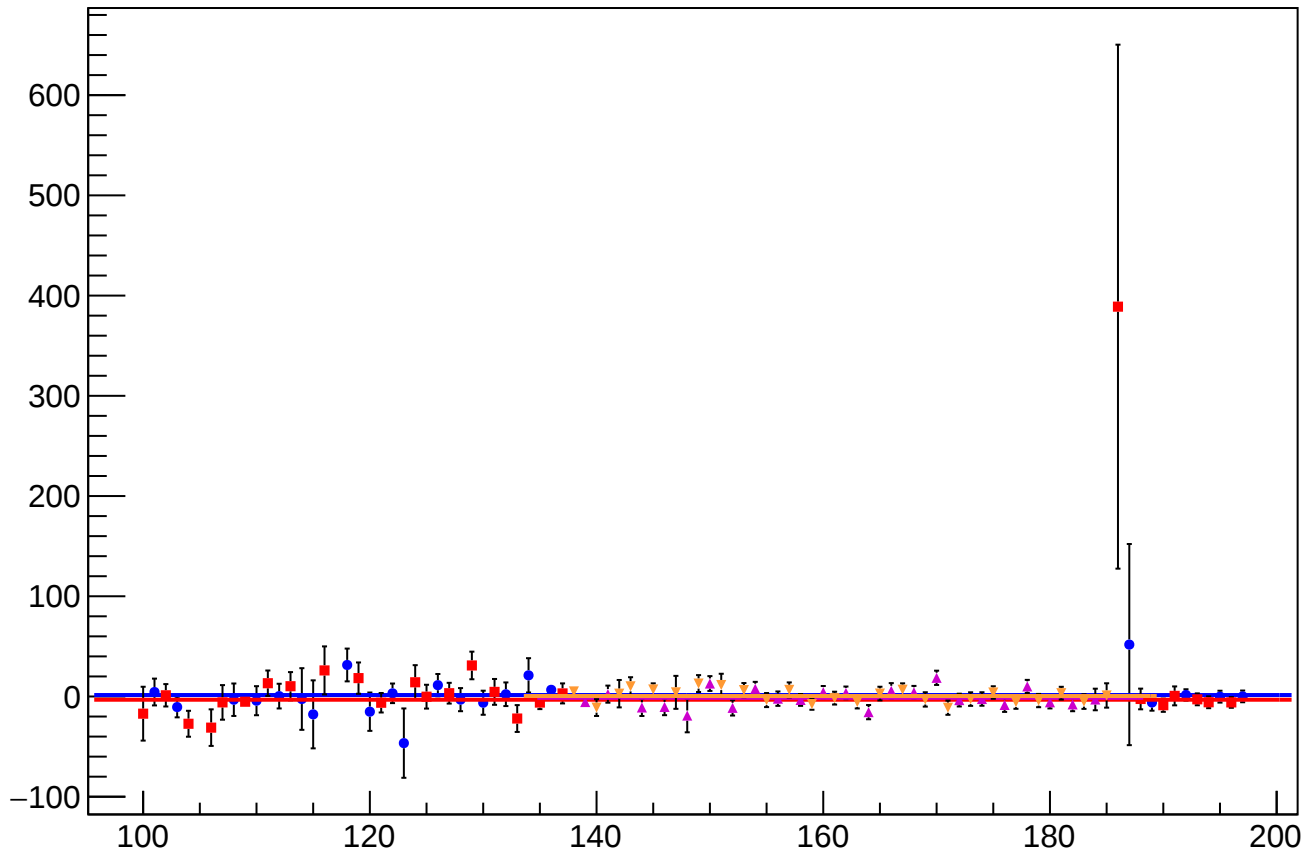
Right: 15351.851+/-2.501 χ^2/NDF : 4257633.6/47

In: 9520.554+/-1.359 χ^2/NDF : 4905328.5/44

Out: 9632.409+/-1.321 χ^2/NDF : 6048291.7/50

All: 9578.071+/-0.947 χ^2/NDF : 10957103.8/95

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.460 $\pm$ 2.062 χ^2/NDF : 13.3/21

Left Out: 0.481 $\pm$ 1.419 χ^2/NDF : 19.6/24

Right Out: -3.232 $\pm$ 1.817 χ^2/NDF : 26.6/25

Left In: -1.298 $\pm$ 1.406 χ^2/NDF : 33.0/22

Left: -0.417 $\pm$ 0.999 χ^2/NDF : 53.4/47

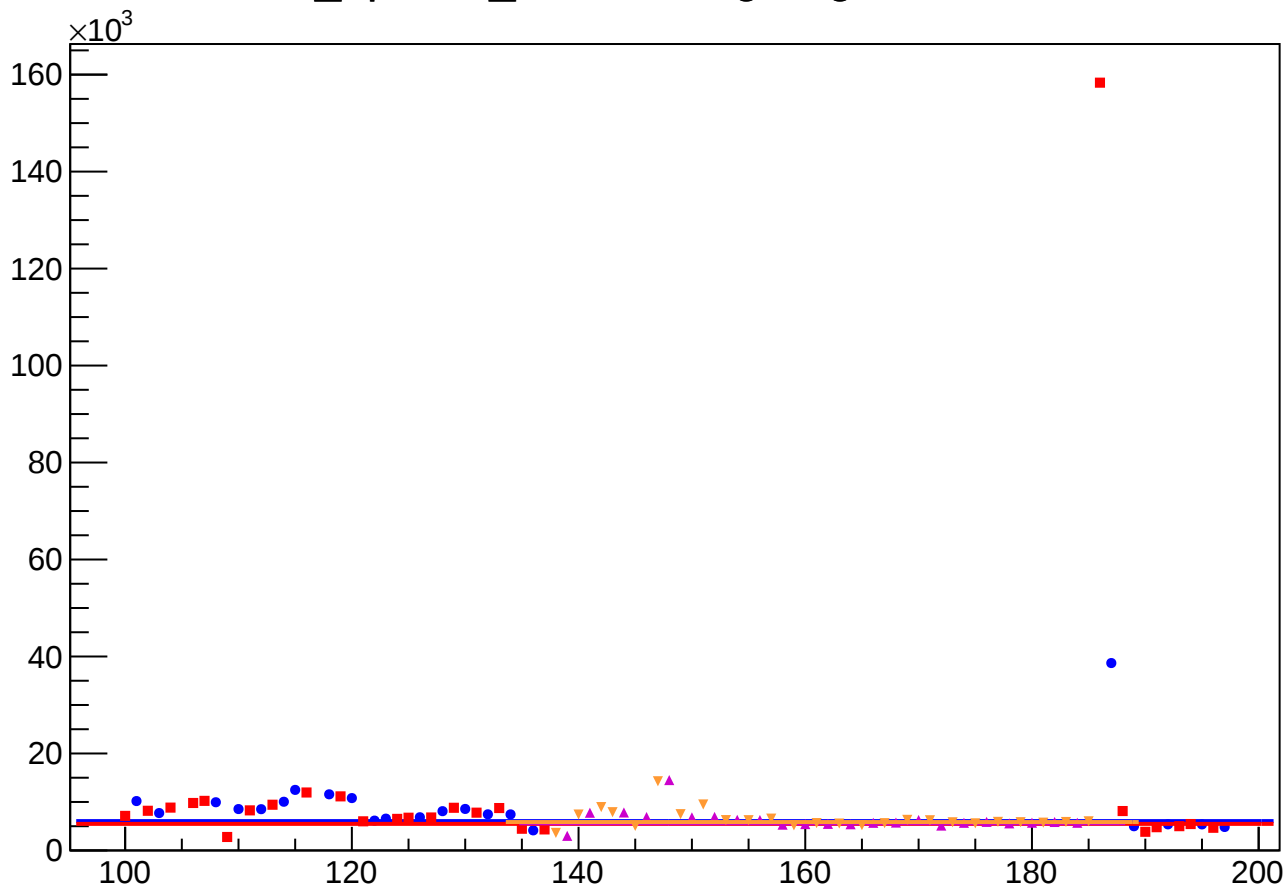
Right: -1.182 $\pm$ 1.363 χ^2/NDF : 42.8/47

In: -0.423 $\pm$ 1.162 χ^2/NDF : 47.5/44

Out: -0.927 $\pm$ 1.118 χ^2/NDF : 48.8/50

All: -0.684 $\pm$ 0.806 χ^2/NDF : 96.4/95

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6053.197 $\pm$ 1.458 χ^2/NDF : 1895151.6/21

Left Out: 5858.642 $\pm$ 1.004 χ^2/NDF : 1691344.1/24

Right Out: 5481.958 $\pm$ 1.285 χ^2/NDF : 3329895.9/25

Left In: 5596.879 $\pm$ 0.994 χ^2/NDF : 2089750.1/22

Left: 5726.555 $\pm$ 0.706 χ^2/NDF : 3815425.5/47

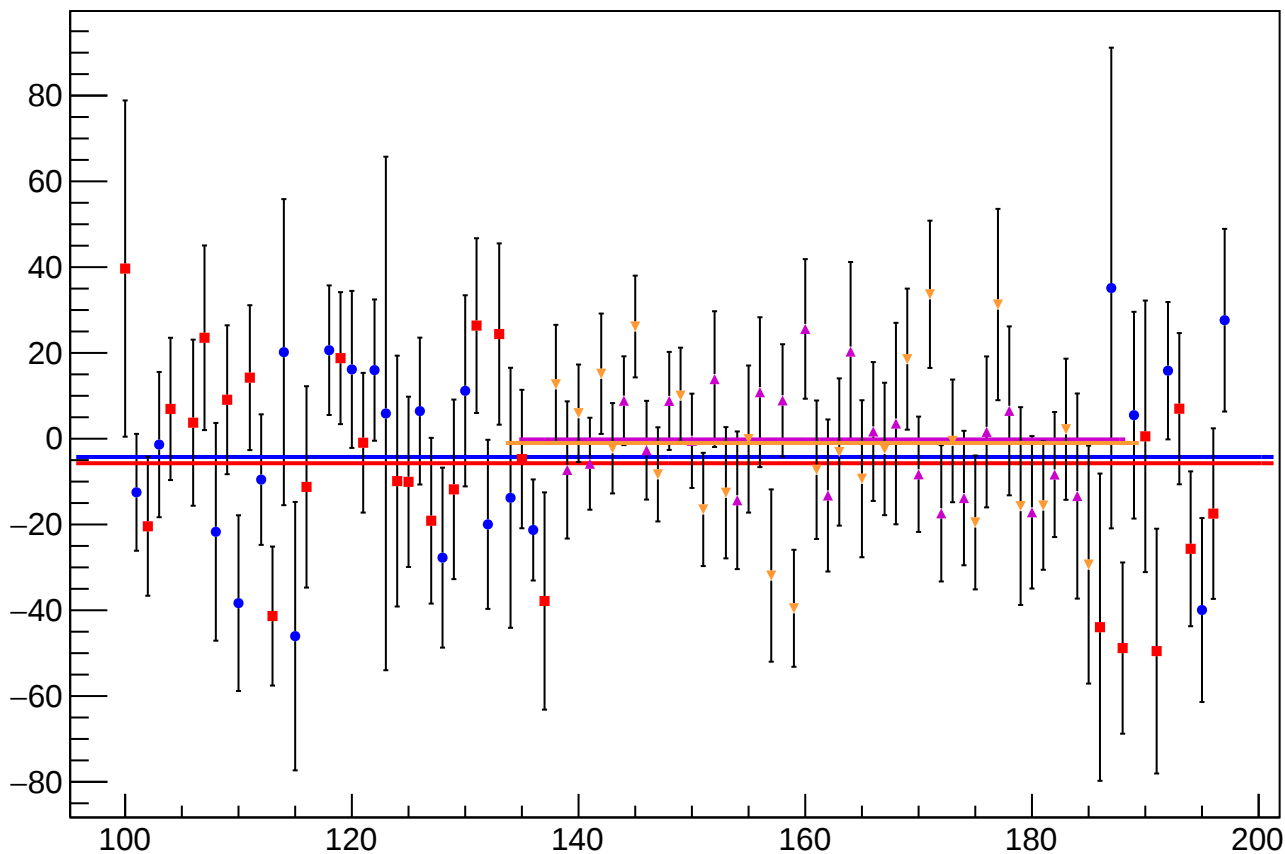
Right: 5731.572 $\pm$ 0.964 χ^2/NDF : 5311466.4/47

In: 5741.732 $\pm$ 0.822 χ^2/NDF : 4051754.1/44

Out: 5715.868 $\pm$ 0.791 χ^2/NDF : 5074640.9/50

All: 5728.308 $\pm$ 0.570 χ^2/NDF : 9126909.5/95

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.261 ± 4.111 χ^2/NDF : 23.7/21

Left Out: -1.007 ± 2.942 χ^2/NDF : 33.5/24

Right Out: -5.719 ± 3.880 χ^2/NDF : 31.5/25

Left In: -0.172 ± 3.067 χ^2/NDF : 12.4/22

Left: -0.607 ± 2.123 χ^2/NDF : 45.9/47

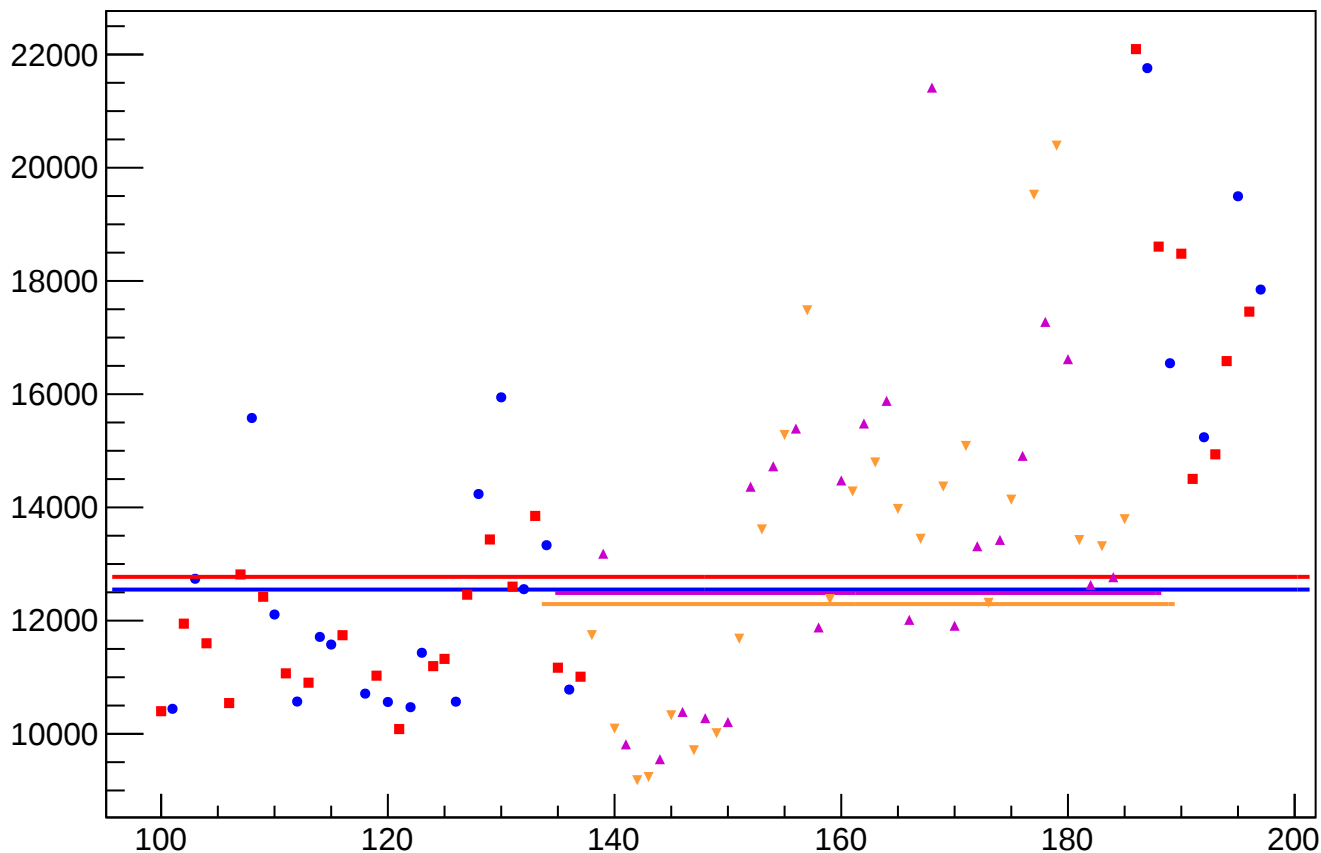
Right: -5.032 ± 2.822 χ^2/NDF : 55.3/47

In: -1.634 ± 2.458 χ^2/NDF : 36.7/44

Out: -2.727 ± 2.344 χ^2/NDF : 65.9/50

All: -2.206 ± 1.697 χ^2/NDF : 102.7/95

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12548.775 $\pm$ 2.907

χ^2/NDF : 831940.5/21

Left: 12386.599 $\pm$ 1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583 $\pm$ 2.080

χ^2/NDF : 1502548.3/24

Right: 12667.522 $\pm$ 1.995

χ^2/NDF : 1678823.4/47

Right Out: 12773.303 $\pm$ 2.744

χ^2/NDF : 843728.0/25

In: 12510.259 $\pm$ 1.738

χ^2/NDF : 2186699.2/44

Out: 12468.019 $\pm$ 1.658

χ^2/NDF : 2365769.7/50

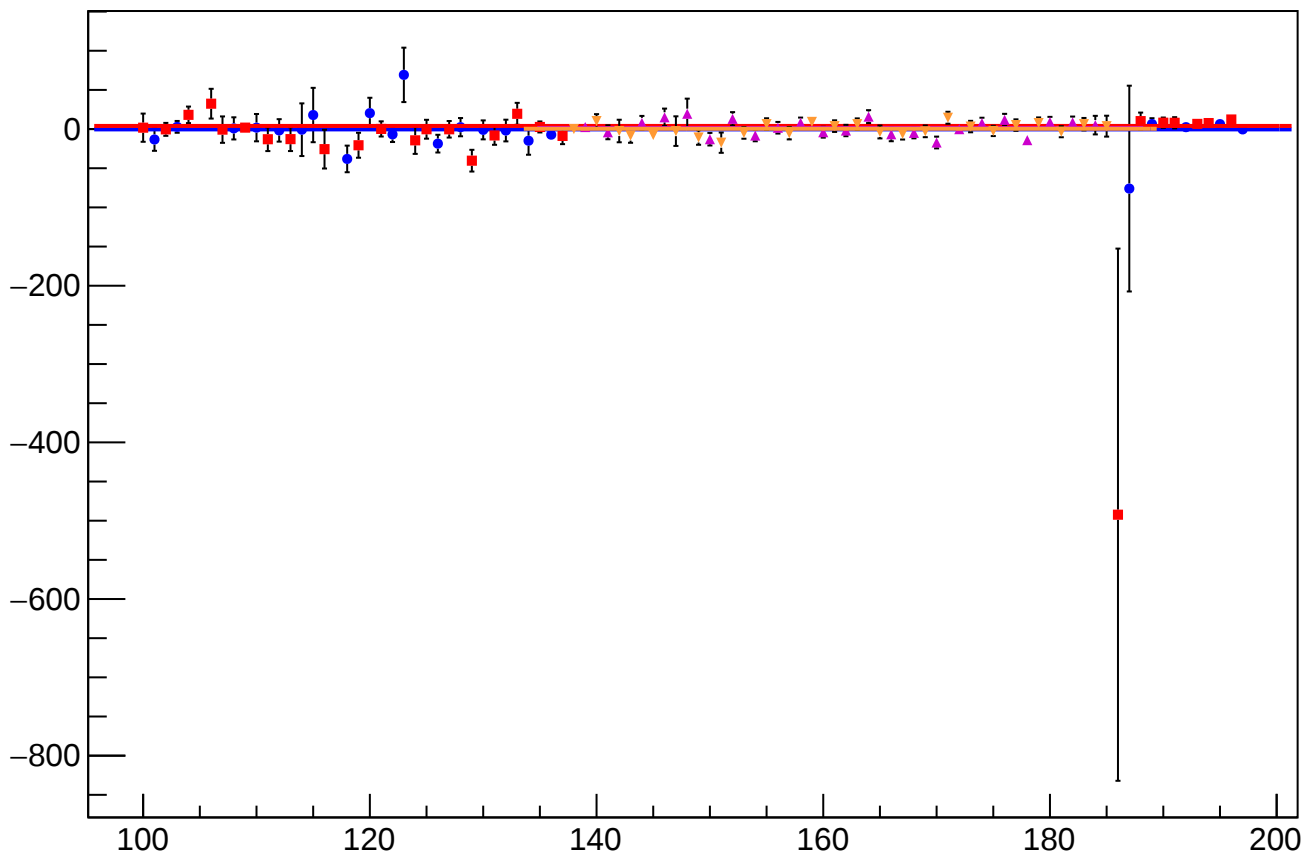
Left In: 12488.821 $\pm$ 2.169

χ^2/NDF : 1354485.4/22

All: 12488.134 $\pm$ 1.200

χ^2/NDF : 4552778.2/9

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.421 ± 1.903 χ^2/NDF : 20.5/21

Left Out: 0.410 ± 1.435 χ^2/NDF : 19.3/24

Right Out: 4.008 ± 1.695 χ^2/NDF : 33.2/25

Left In: 1.278 ± 1.386 χ^2/NDF : 34.0/22

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

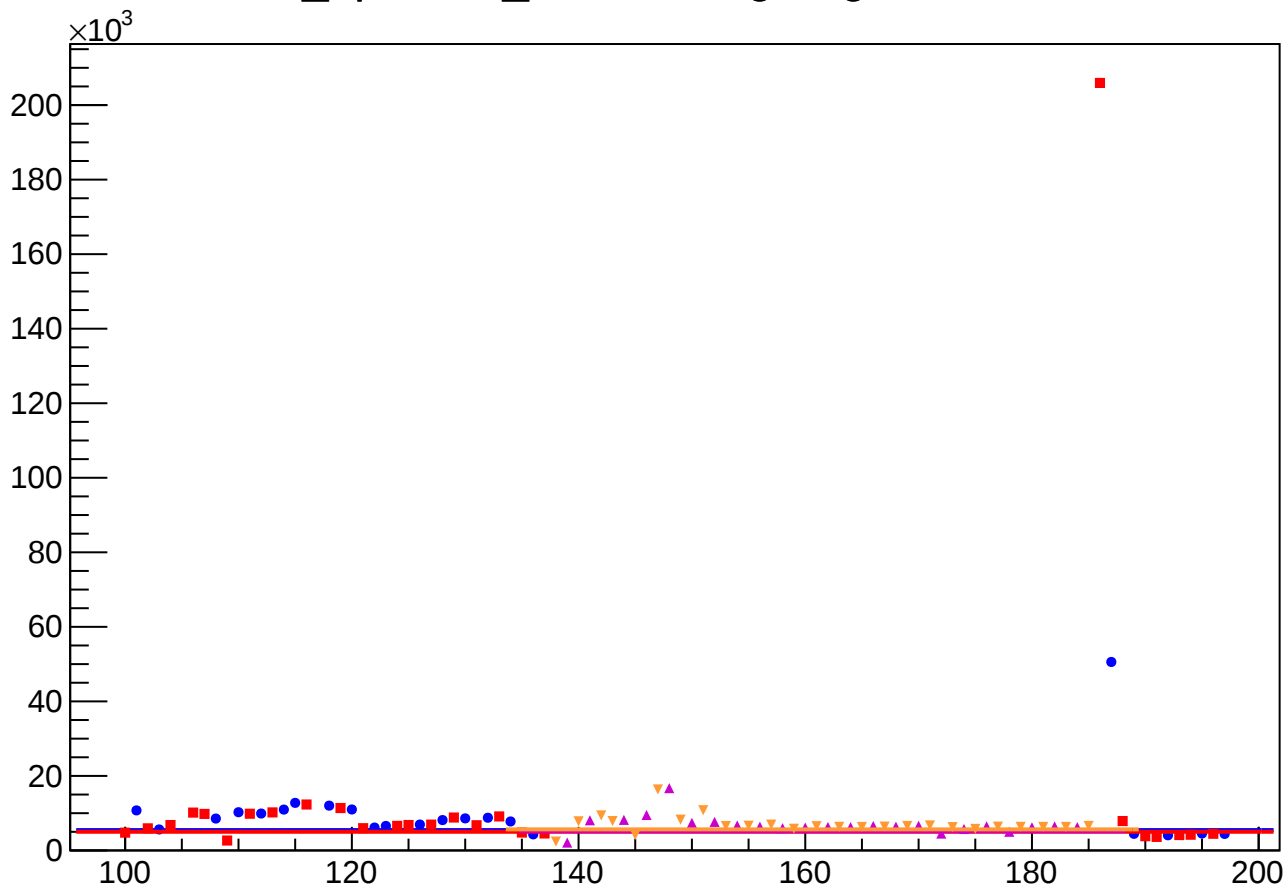
Right: 2.048 ± 1.266 χ^2/NDF : 56.7/47

In: 0.689 ± 1.120 χ^2/NDF : 55.0/44

Out: 1.912 ± 1.095 χ^2/NDF : 55.1/50

All: 1.314 ± 0.783 χ^2/NDF : 110.7/95

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5464.878 $\pm$ 1.346 χ^2/NDF : 2483266.0/21

Left Out: 5655.639 $\pm$ 1.014 χ^2/NDF : 4124124.3/24

Right Out: 5015.689 $\pm$ 1.199 χ^2/NDF : 3470852.7/25

Left In: 5180.743 $\pm$ 0.980 χ^2/NDF : 5350053.6/22

Left: 5409.966 $\pm$ 0.705 χ^2/NDF : 9587556.1/47

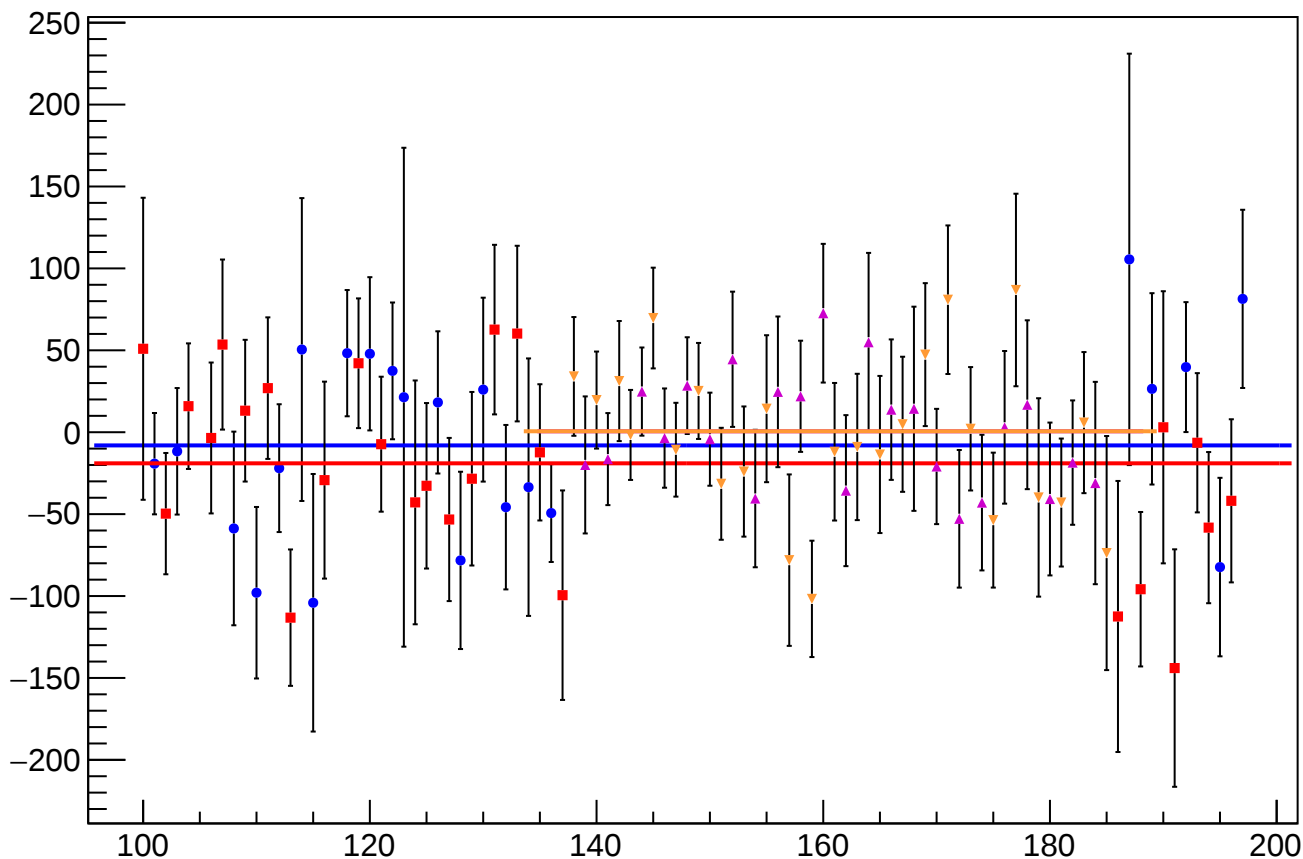
Right: 5214.438 $\pm$ 0.895 χ^2/NDF : 6016254.1/47

In: 5279.207 $\pm$ 0.792 χ^2/NDF : 7862458.6/44

Out: 5388.577 $\pm$ 0.774 χ^2/NDF : 7761062.3/50

All: 5335.131 $\pm$ 0.554 χ^2/NDF : 15633269.7/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.052 ± 10.213 χ^2/NDF : 22.8/21

Left Out: 0.580 ± 7.691 χ^2/NDF : 31.0/24

Right Out: -18.987 ± 9.642 χ^2/NDF : 28.4/25

Left In: 0.565 ± 8.015 χ^2/NDF : 14.3/22

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

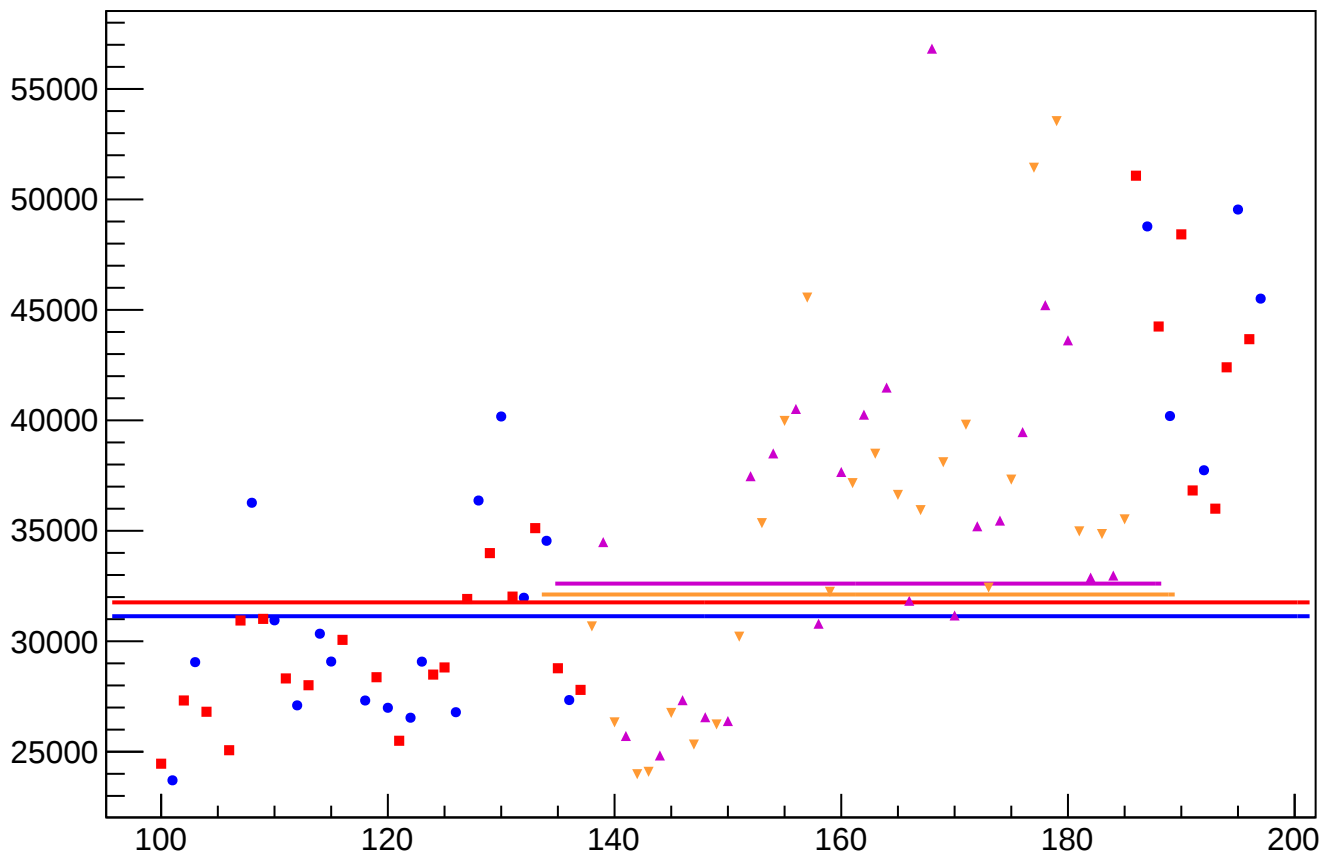
Right: -13.834 ± 7.011 χ^2/NDF : 51.8/47

In: -2.719 ± 6.305 χ^2/NDF : 37.5/44

Out: -7.028 ± 6.012 χ^2/NDF : 61.9/50

All: -4.976 ± 4.351 χ^2/NDF : 99.7/95

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 31133.718 $\pm$ 7.222

χ^2/NDF : 857531.8/21

Left: 32353.483 $\pm$ 3.924 χ^2/NDF : 2939154.5/47

Right: 31464.989 $\pm$ 4.958 χ^2/NDF : 1691370.0/47

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

In: 32047.443 $\pm$ 4.458 χ^2/NDF : 2281873.5/44

Out: 31978.408 $\pm$ 4.251 χ^2/NDF : 2368273.5/50

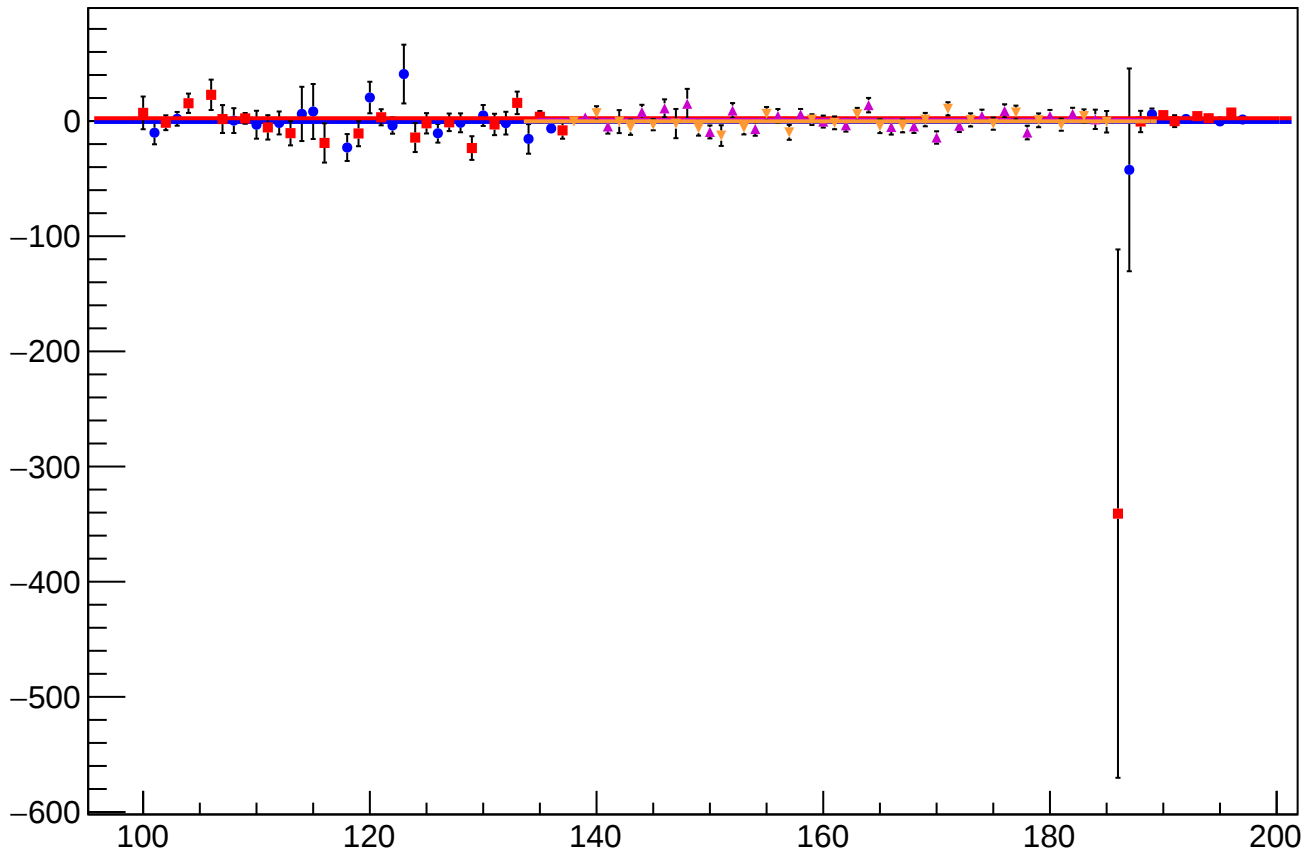
Right Out: 31760.259 $\pm$ 6.818

χ^2/NDF : 829858.5/25

Left In: 32610.108 $\pm$ 5.667 χ^2/NDF : 1398475.8/22

All: 32011.286 $\pm$ 3.077 χ^2/NDF : 4650272.6/9

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -0.777 $\pm$ 1.322 χ^2 /NDF: 19.2/21

Left Out: -0.255 $\pm$ 1.173 χ^2 /NDF:18.0/24

Right Out: 2.444 $\pm$ 1.224 χ^2 /NDF: 29.0/25

Left In: 0.925 $\pm$ 1.154 χ^2 /NDF:36.1/22

Left: 0.345 $\pm$ 0.822 χ^2 /NDF: 54.7/47

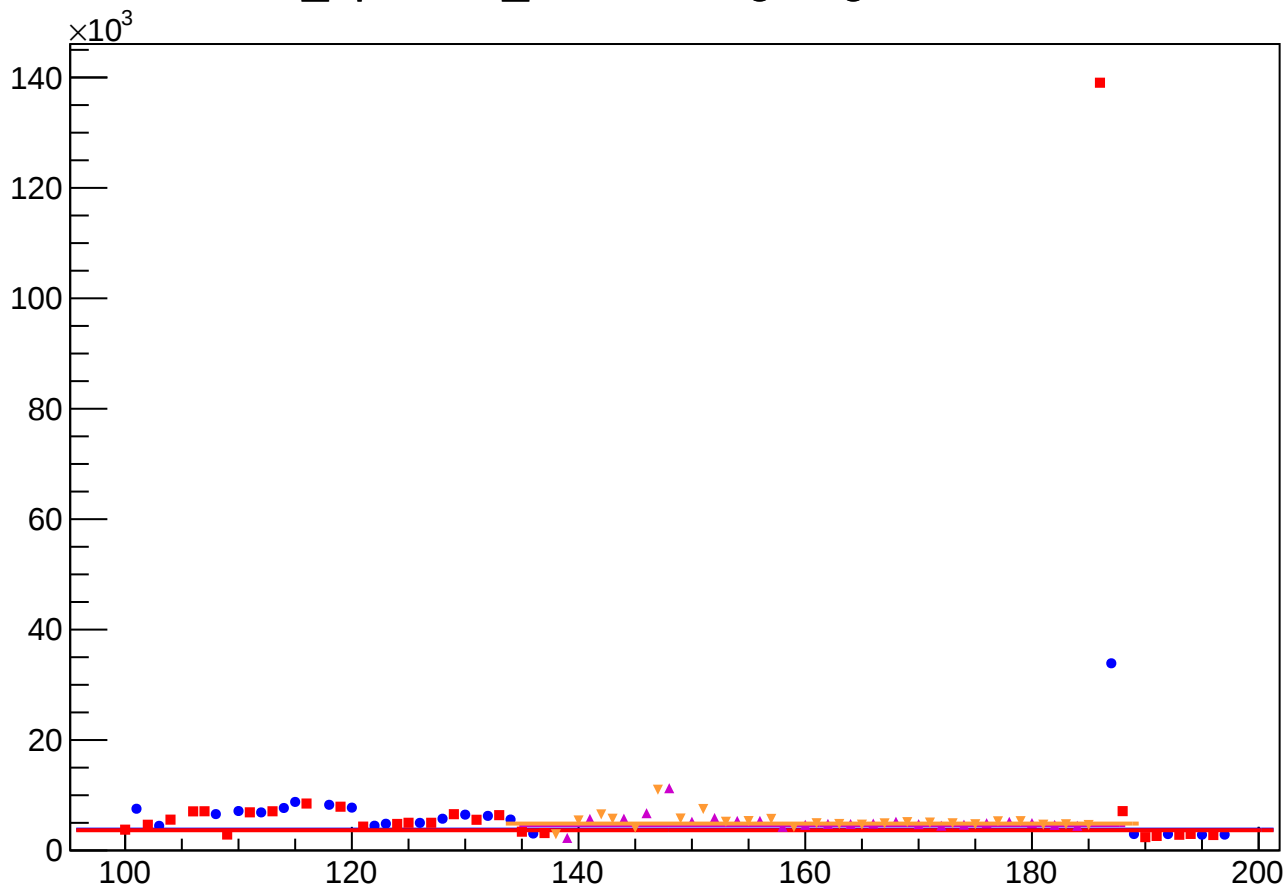
Right: 0.958 $\pm$ 0.898 χ^2 /NDF: 51.4/47

In: 0.190 $\pm$ 0.869 χ^2 /NDF:56.3/44

Out: 1.037 $\pm$ 0.847 χ^2 /NDF:49.5/50

All: 0.624 $\pm$ 0.607 χ^2 /NDF: 106.3/95

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3771.871 ± 0.935 $\chi^2/\text{NDF}: 2744749.8/21$

Left Out: 4866.528 ± 0.829 $\chi^2/\text{NDF}: 1511486.2/24$

Right Out: 3661.785 ± 0.865 $\chi^2/\text{NDF}: 3501736.4/25$

Left In: 4582.193 ± 0.816 $\chi^2/\text{NDF}: 2478681.0/22$

Left: 4722.017 ± 0.582 $\chi^2/\text{NDF}: 4049906.1/47$

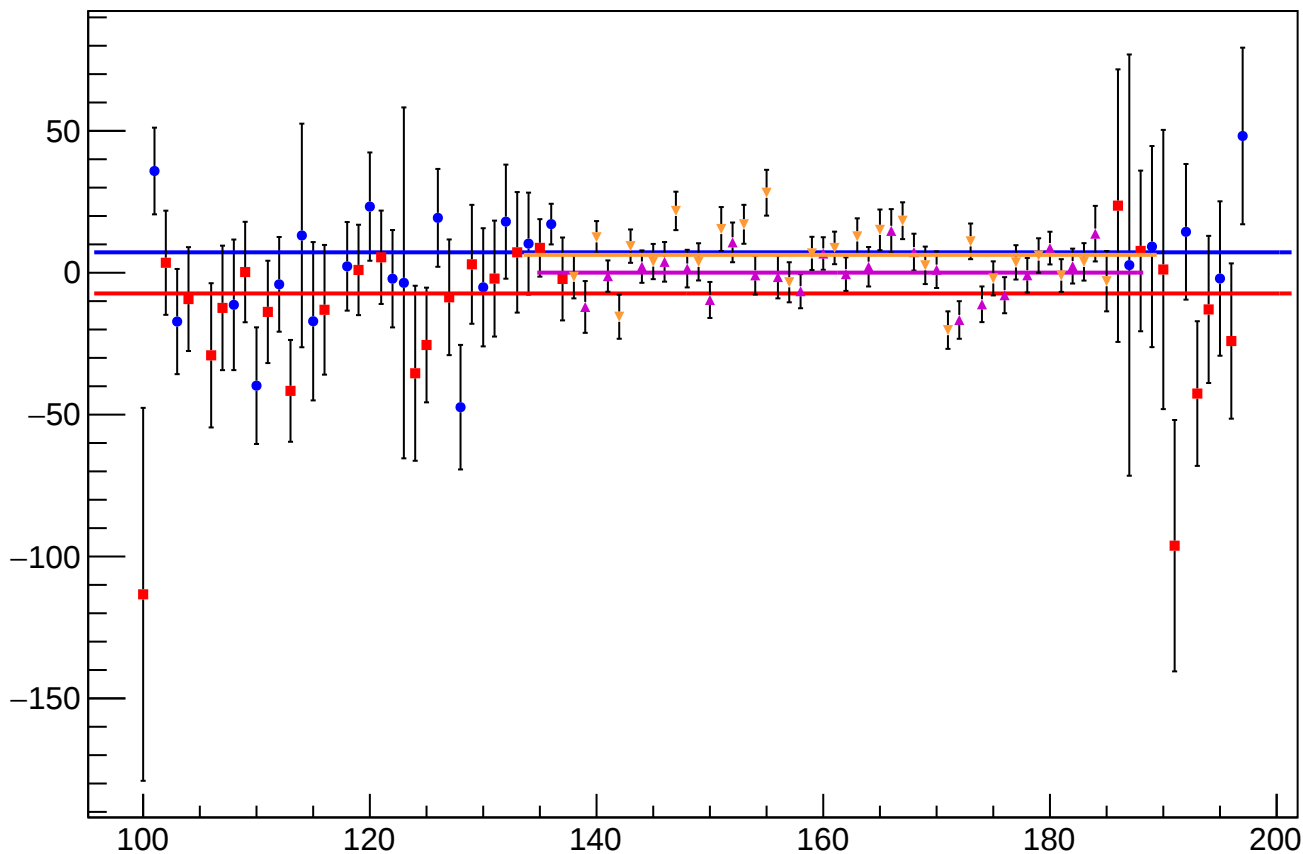
Right: 3712.580 ± 0.635 $\chi^2/\text{NDF}: 6253953.3/47$

In: 4231.927 ± 0.615 $\chi^2/\text{NDF}: 5649913.2/44$

Out: 4289.751 ± 0.599 $\chi^2/\text{NDF}: 6023473.6/50$

All: 4261.597 ± 0.429 $\chi^2/\text{NDF}: 11677927.6/95$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.200 $\pm$ 3.910 χ^2/NDF : 24.7/21

Left Out: 6.302 $\pm$ 1.313 χ^2/NDF : 56.7/24

Right Out: -7.294 $\pm$ 3.986 χ^2/NDF : 20.8/25

Left In: 0.044 $\pm$ 1.358 χ^2/NDF : 30.0/22

Left: 3.279 $\pm$ 0.944 χ^2/NDF : 97.7/47

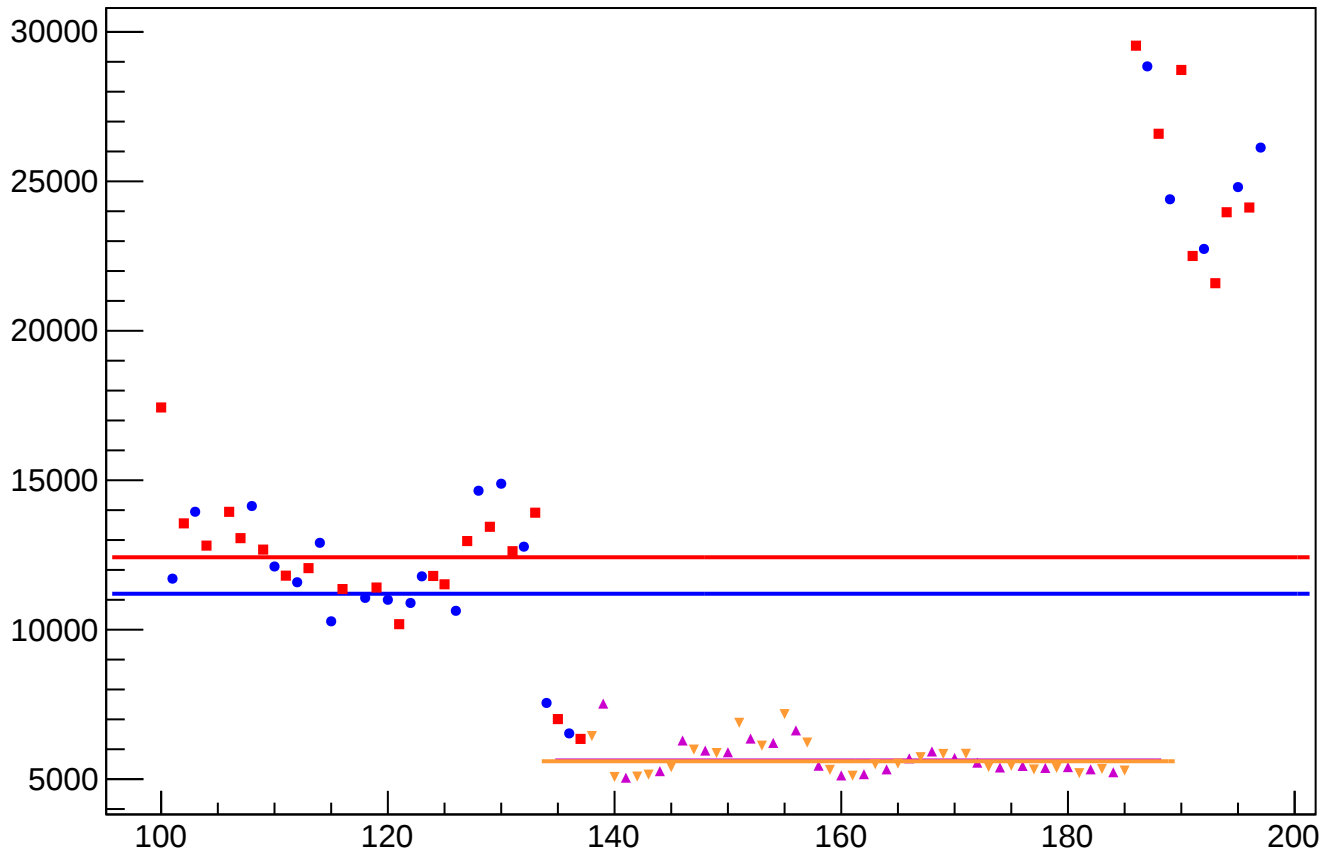
Right: 0.093 $\pm$ 2.791 χ^2/NDF : 52.3/47

In: 0.814 $\pm$ 1.283 χ^2/NDF : 57.7/44

Out: 4.972 $\pm$ 1.247 χ^2/NDF : 88.0/50

All: 2.952 $\pm$ 0.894 χ^2/NDF : 151.1/95

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11202.703+/-2.765 χ^2/NDF : 2968306.1/21

Left Out: 5598.786+/-0.928 χ^2/NDF : 283253.4/24

Right Out: 12423.502+/-2.819 χ^2/NDF : 3119917.6/25

Left In: 5625.163+/-0.960 χ^2/NDF : 272563.5/22

Left: 5611.528+/-0.667 χ^2/NDF : 556207.1/47

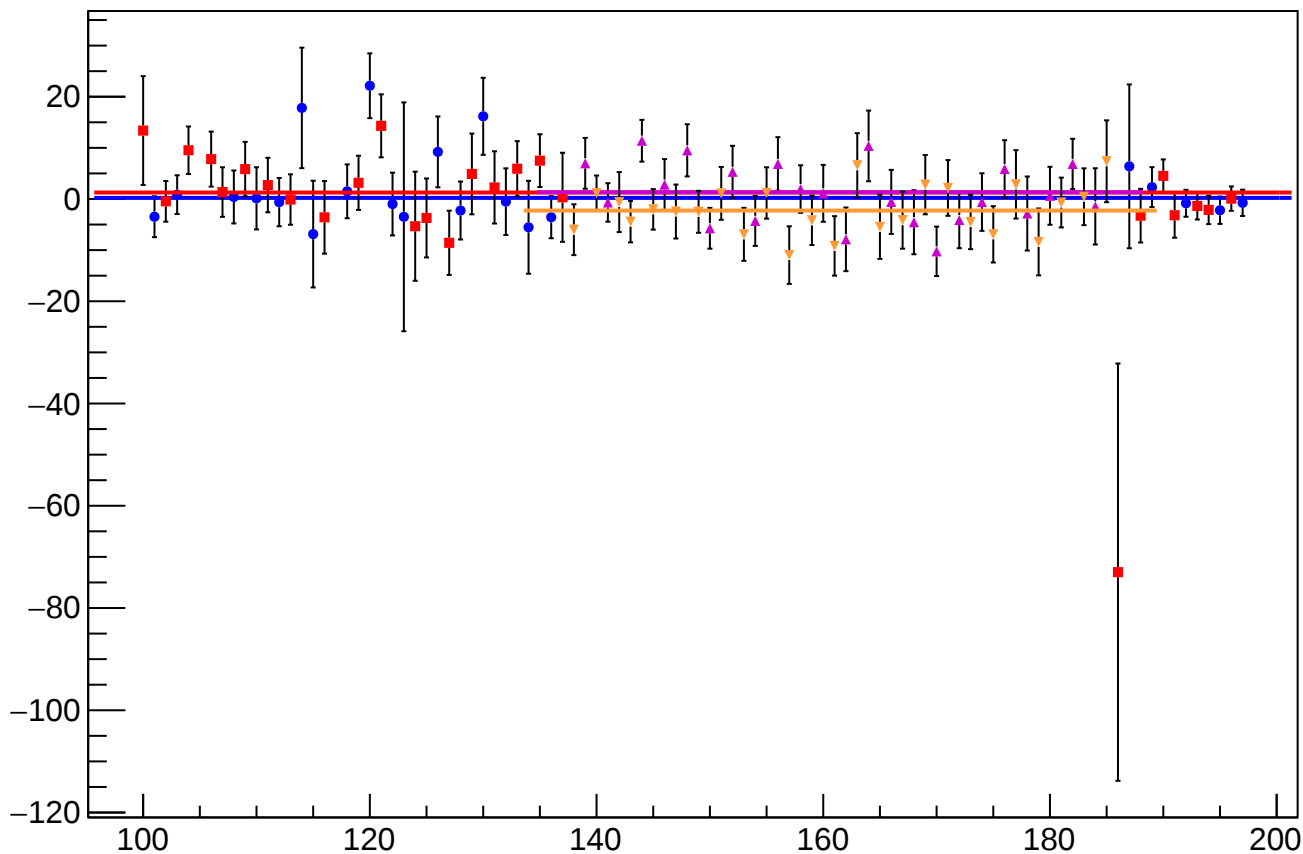
Right: 11801.296+/-1.974 χ^2/NDF : 6183831.3/47

In: 6225.382+/-0.907 χ^2/NDF : 6872945.2/44

Out: 6266.357+/-0.882 χ^2/NDF : 8692227.8/50

All: 6246.451+/-0.632 χ^2/NDF : 15566222.6/95

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.216 ± 0.992 $\chi^2/\text{NDF}: 24.9/21$

Left Out: -2.262 ± 1.030 $\chi^2/\text{NDF}: 15.5/24$

Right Out: 1.266 ± 0.915 $\chi^2/\text{NDF}: 26.6/25$

Left In: 1.328 ± 1.082 $\chi^2/\text{NDF}: 30.6/22$

Left: -0.555 ± 0.746 $\chi^2/\text{NDF}: 51.9/47$

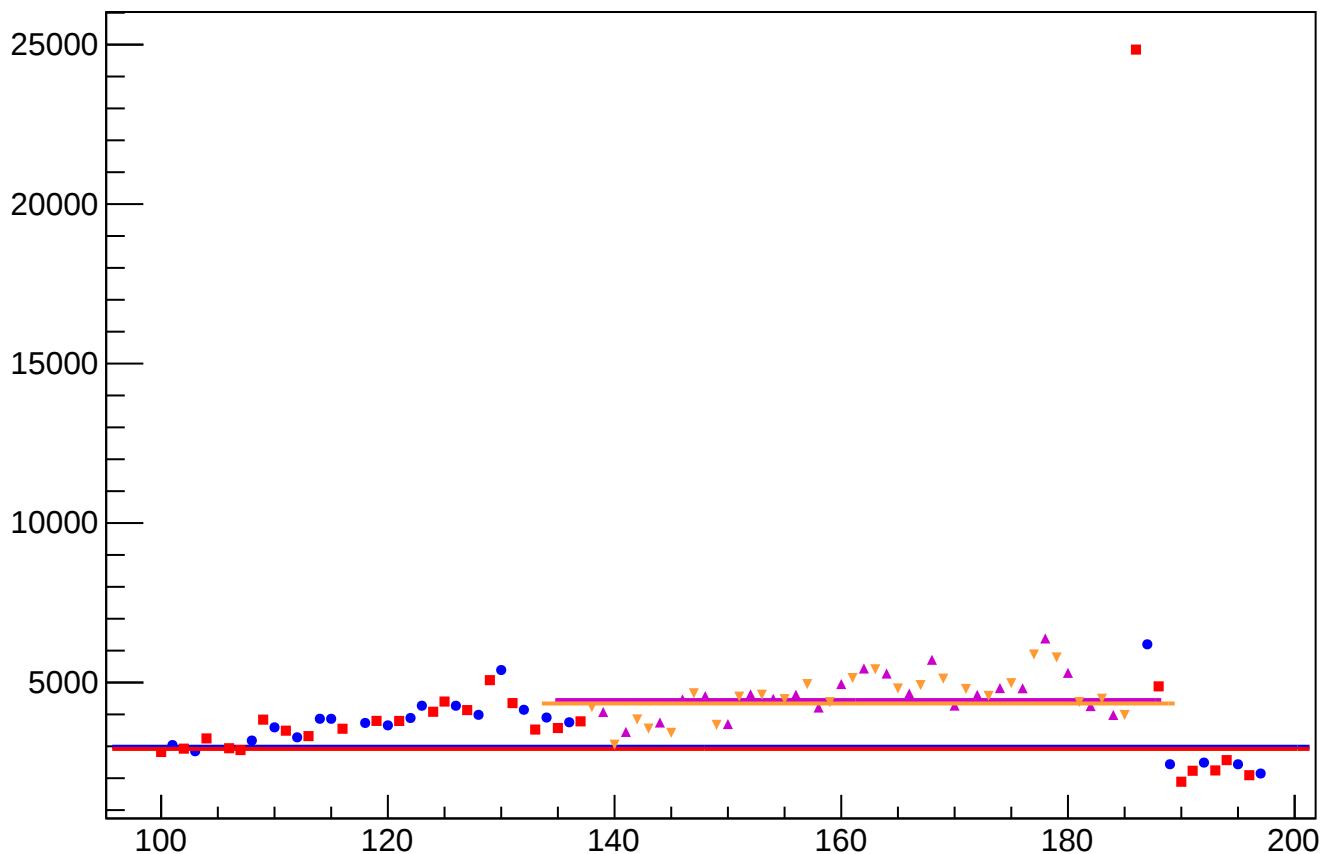
Right: 0.783 ± 0.673 $\chi^2/\text{NDF}: 52.1/47$

In: 0.724 ± 0.731 $\chi^2/\text{NDF}: 56.1/44$

Out: -0.290 ± 0.684 $\chi^2/\text{NDF}: 48.7/50$

All: 0.183 ± 0.500 $\chi^2/\text{NDF}: 105.8/95$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2986.620+/-0.701 χ^2/NDF : 1148024.3/21

Left Out: 4342.635+/-0.728 χ^2/NDF : 993035.5/24

Right Out: 2917.987+/-0.647 χ^2/NDF : 2209497.3/25

Left In: 4450.007+/-0.765 χ^2/NDF : 693229.8/22

Left: 4393.686+/-0.528 χ^2/NDF : 1696596.0/47

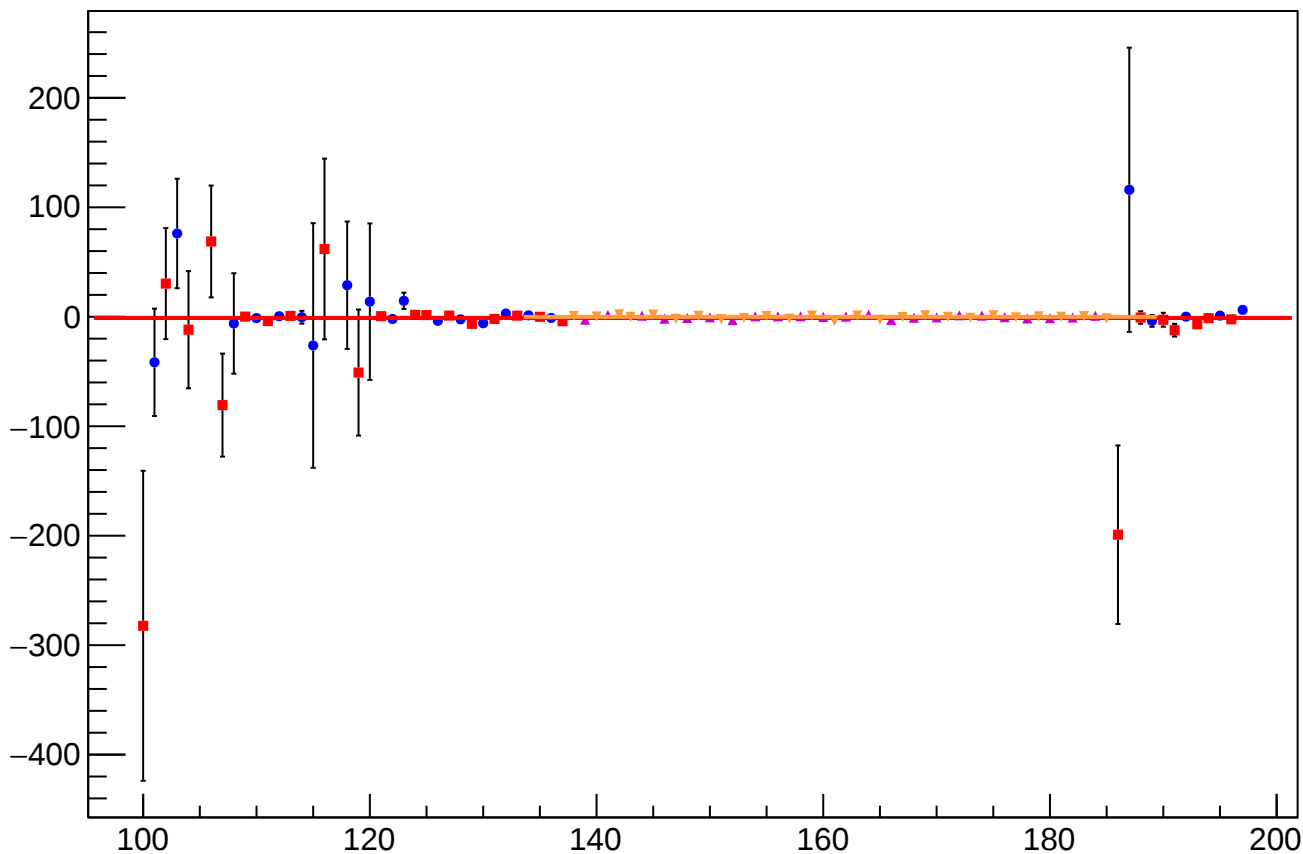
Right: 2949.554+/-0.476 χ^2/NDF : 3362694.0/47

In: 3654.775+/-0.517 χ^2/NDF : 3829278.3/44

Out: 3546.482+/-0.484 χ^2/NDF : 5340190.6/50

All: 3597.044+/-0.353 χ^2/NDF : 9192860.3/95

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.026 ± 0.697 χ^2/NDF : 21.9/21

Left Out: -0.092 ± 0.249 χ^2/NDF : 34.4/24

Right Out: -1.138 ± 0.659 χ^2/NDF : 34.2/25

Left In: -0.259 ± 0.257 χ^2/NDF : 27.2/22

Left: -0.173 ± 0.179 χ^2/NDF : 61.9/47

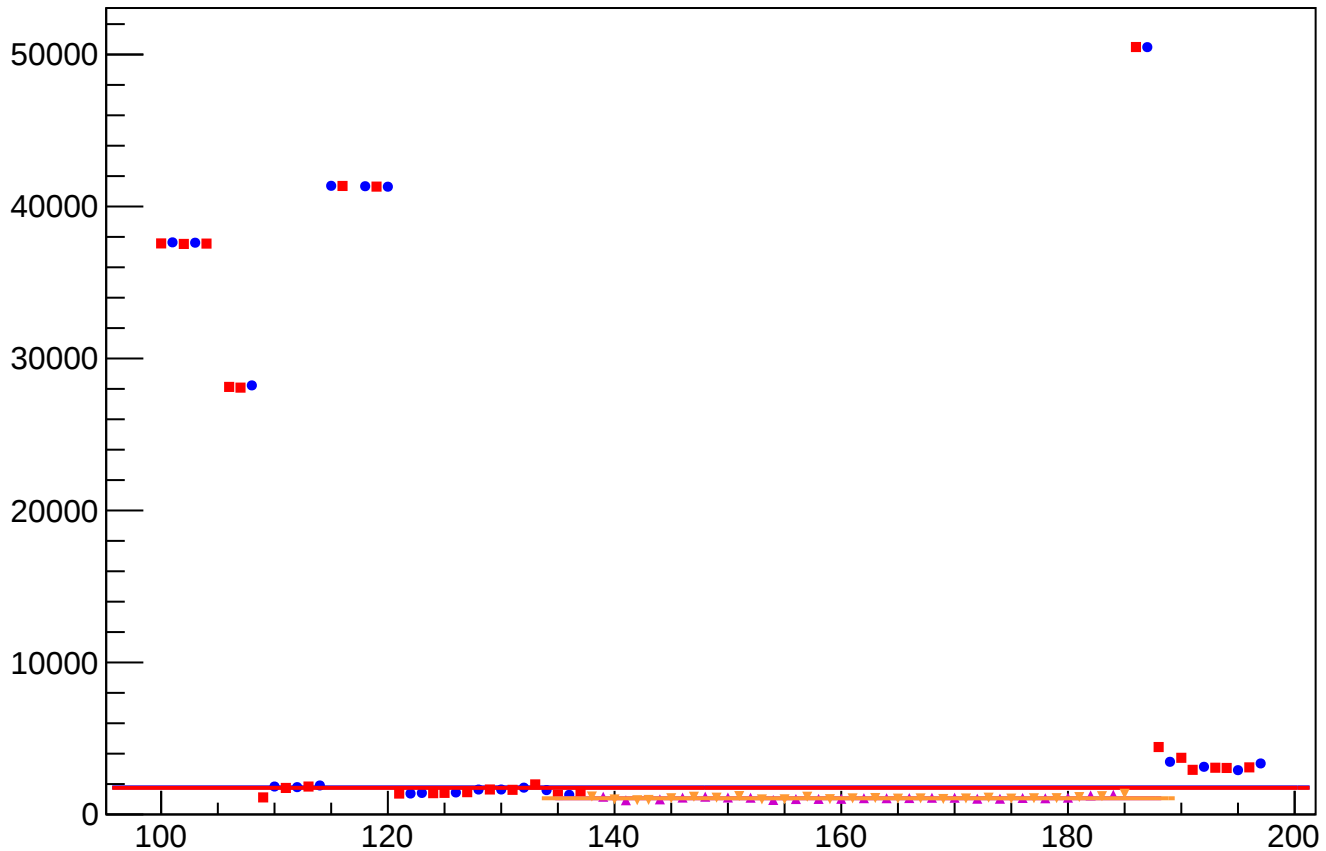
Right: -1.085 ± 0.479 χ^2/NDF : 56.1/47

In: -0.351 ± 0.241 χ^2/NDF : 50.1/44

Out: -0.222 ± 0.233 χ^2/NDF : 70.8/50

All: -0.284 ± 0.168 χ^2/NDF : 121.1/95

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1781.067 $\pm$ 0.493

χ^2 /NDF: 6292129.2/21

Left Out: 1064.701 $\pm$ 0.176

χ^2 /NDF: 186511.5/24

Right Out: 1751.378 $\pm$ 0.466

χ^2 /NDF: 7450787.2/25

Left In: 1066.255 $\pm$ 0.182

χ^2 /NDF: 164232.1/22

Left: 1065.454 $\pm$ 0.126

χ^2 /NDF: 350781.3/47

Right: 1765.404 $\pm$ 0.339

χ^2 /NDF: 13744831.5/47

In: 1151.815 $\pm$ 0.170

χ^2 /NDF: 8308805.1/44

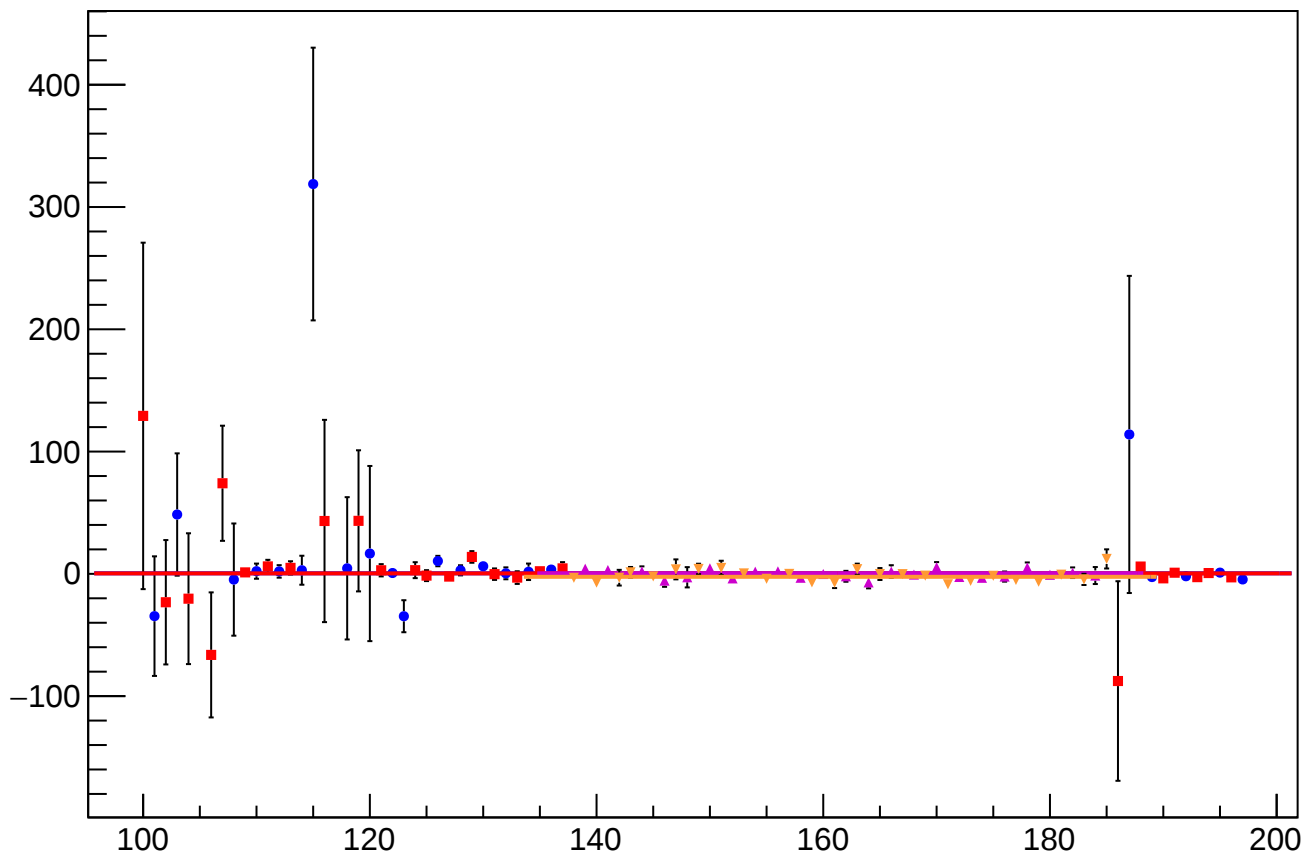
Out: 1150.415 $\pm$ 0.165

χ^2 /NDF: 9535226.5/50

All: 1151.091 $\pm$ 0.118

χ^2 /NDF: 17844066.6/95

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 0.444 ± 0.889 χ^2/NDF : 34.1/21

Left Out: -2.422 ± 0.811 χ^2/NDF : 21.2/24

Right Out: 0.367 ± 0.820 χ^2/NDF : 27.6/25

Left In: 0.468 ± 0.843 χ^2/NDF : 15.5/22

Left: -1.033 ± 0.584 χ^2/NDF : 42.8/47

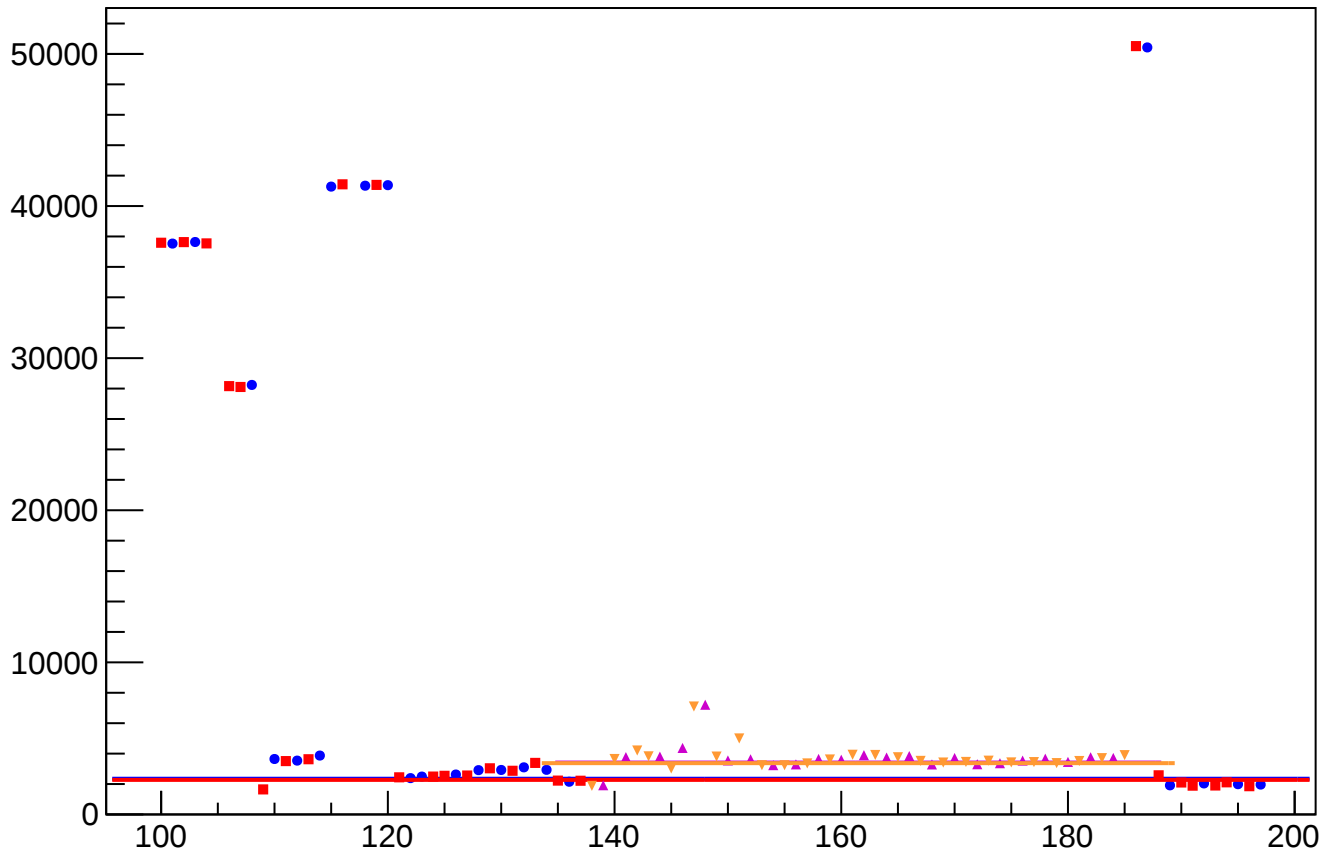
Right: 0.402 ± 0.603 χ^2/NDF : 61.6/47

In: 0.457 ± 0.612 χ^2/NDF : 49.5/44

Out: -1.043 ± 0.576 χ^2/NDF : 54.7/50

All: -0.338 ± 0.419 χ^2/NDF : 107.4/95

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2348.336 $\pm$ 0.629 χ^2/NDF : 5252222.1/21

Left Out: 3372.958 $\pm$ 0.573 χ^2/NDF : 1656864.7/24

Right Out: 2273.089 $\pm$ 0.580 χ^2/NDF : 5861749.9/25

Left In: 3411.924 $\pm$ 0.596 χ^2/NDF : 1434523.7/22

Left: 3391.680 $\pm$ 0.413 χ^2/NDF : 3093609.1/47

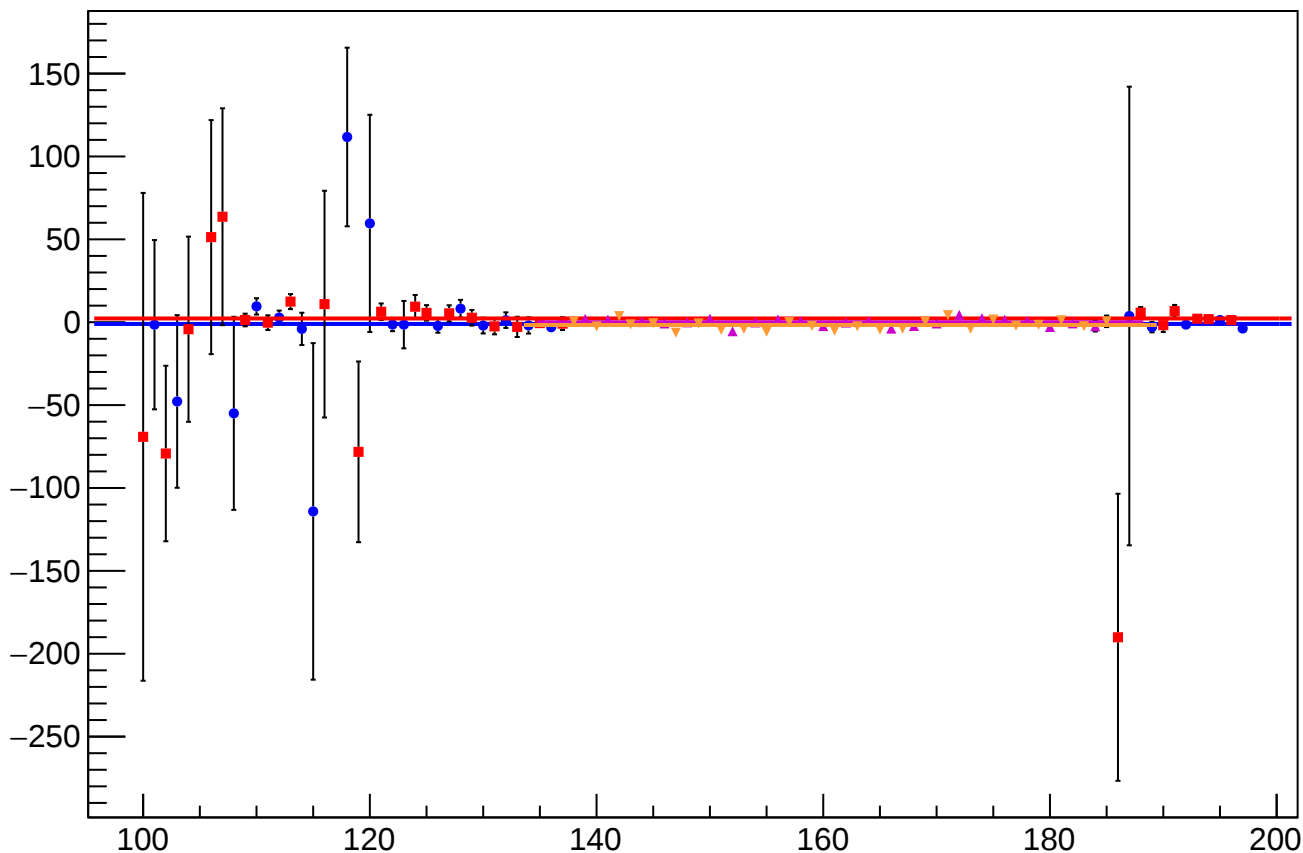
Right: 2307.674 $\pm$ 0.426 χ^2/NDF : 11121716.9/47

In: 2908.380 $\pm$ 0.432 χ^2/NDF : 8194521.3/44

Out: 2829.249 $\pm$ 0.408 χ^2/NDF : 9339092.3/50

All: 2866.469 $\pm$ 0.297 χ^2/NDF : 17551345.4/95

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.043 ± 0.871 χ^2/NDF : 20.5/21

Left Out: -1.672 ± 0.388 χ^2/NDF : 45.7/24

Right Out: 2.265 ± 0.822 χ^2/NDF : 26.2/25

Left In: -0.072 ± 0.401 χ^2/NDF : 28.2/22

Left: -0.898 ± 0.279 χ^2/NDF : 82.1/47

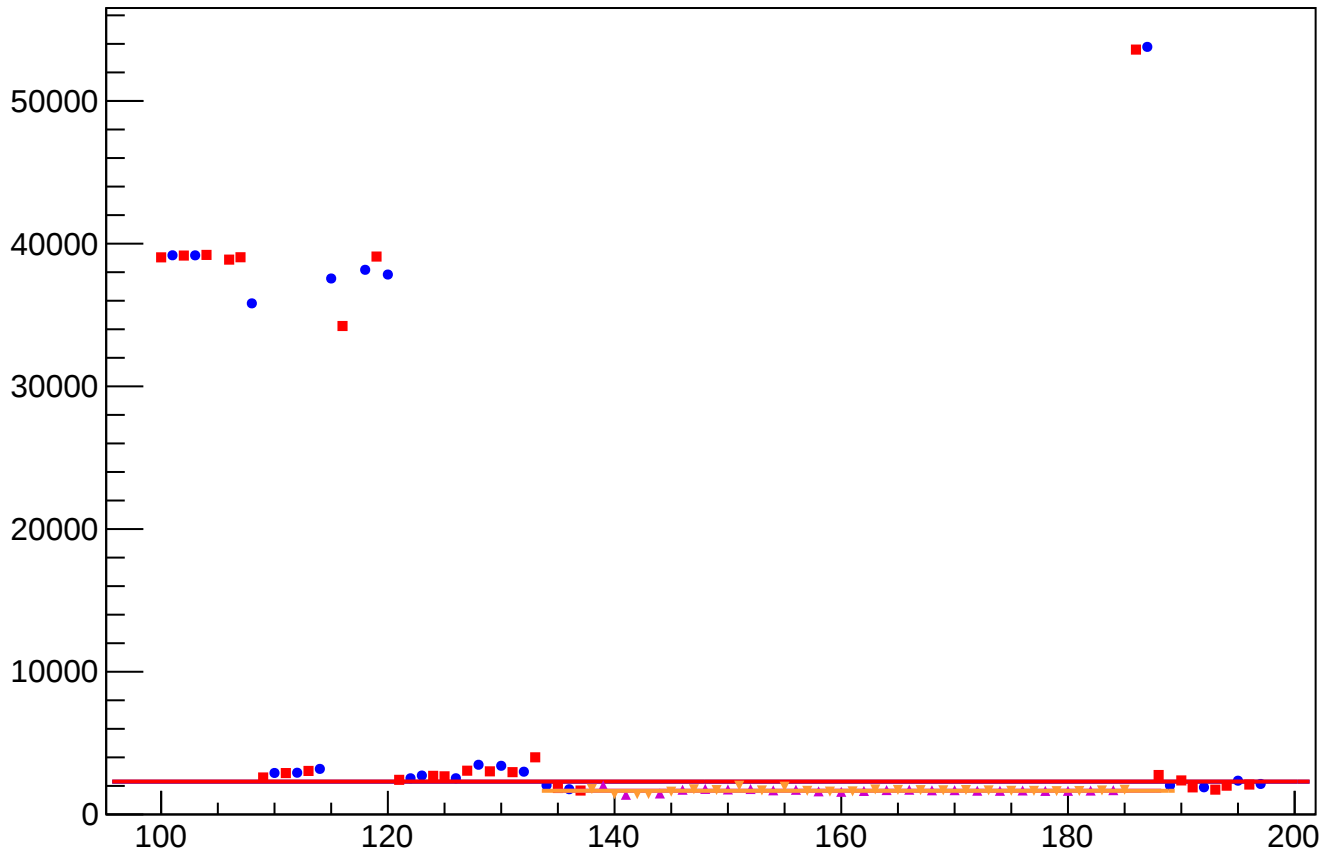
Right: 0.706 ± 0.598 χ^2/NDF : 54.4/47

In: -0.242 ± 0.364 χ^2/NDF : 49.8/44

Out: -0.955 ± 0.351 χ^2/NDF : 90.7/50

All: -0.611 ± 0.253 χ^2/NDF : 142.4/95

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2294.792+/-0.616 χ^2/NDF : 5319671.8/21

Left Out: 1657.770+/-0.274 χ^2/NDF : 223465.3/24

Right Out: 2307.440+/-0.581 χ^2/NDF : 5965906.9/25

Left In: 1663.620+/-0.284 χ^2/NDF : 178858.2/22

Left: 1660.599+/-0.197 χ^2/NDF : 402543.2/47

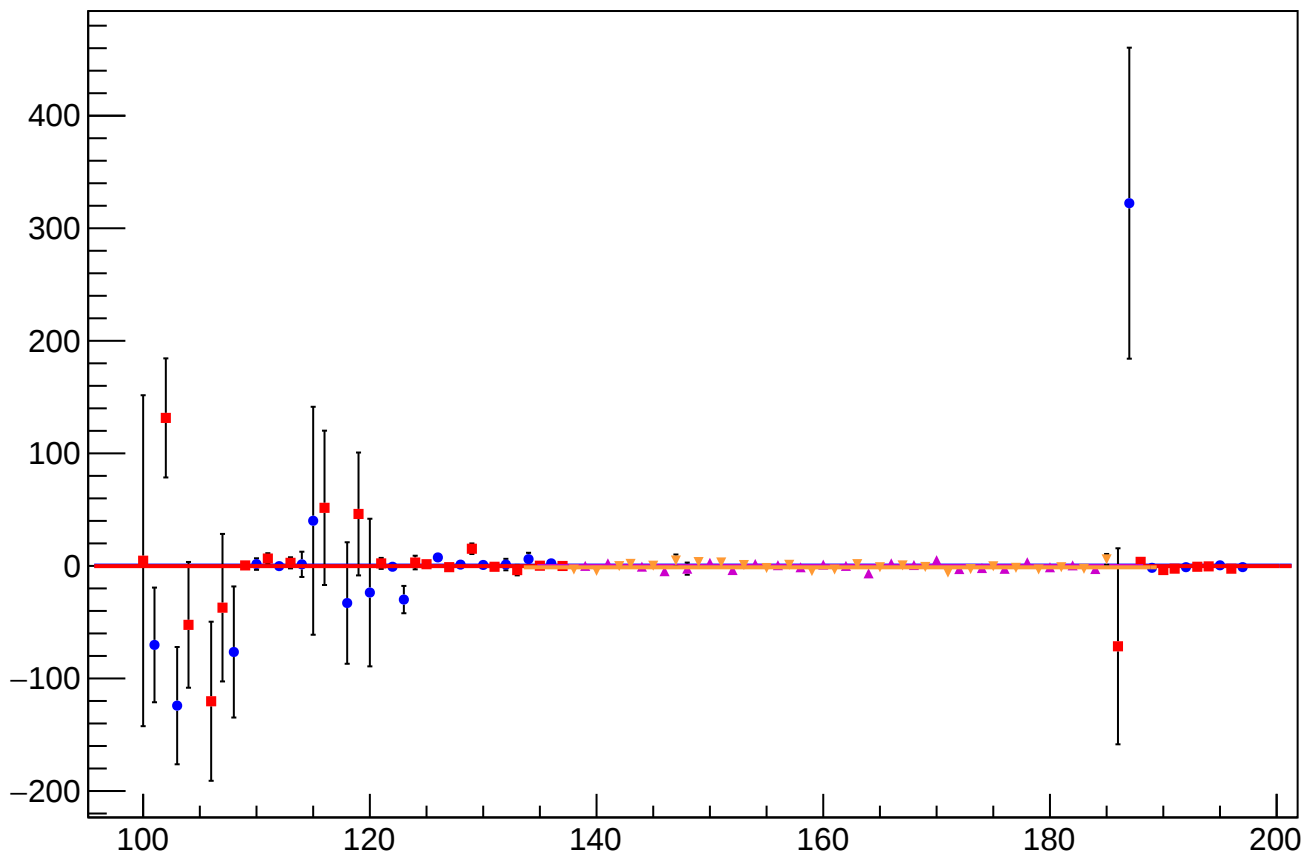
Right: 2301.482+/-0.423 χ^2/NDF : 11285801.8/47

In: 1774.044+/-0.258 χ^2/NDF : 6365181.8/44

Out: 1776.189+/-0.248 χ^2/NDF : 7211049.9/50

All: 1775.157+/-0.179 χ^2/NDF : 13576267.7/95

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.300 $\pm$ 0.735 χ^2/NDF : 29.4/21

Left Out: -1.251 $\pm$ 0.535 χ^2/NDF : 21.7/24

Right Out: -0.202 $\pm$ 0.678 χ^2/NDF : 32.8/25

Left In: -0.098 $\pm$ 0.541 χ^2/NDF : 19.3/22

Left: -0.681 $\pm$ 0.380 χ^2/NDF : 43.3/47

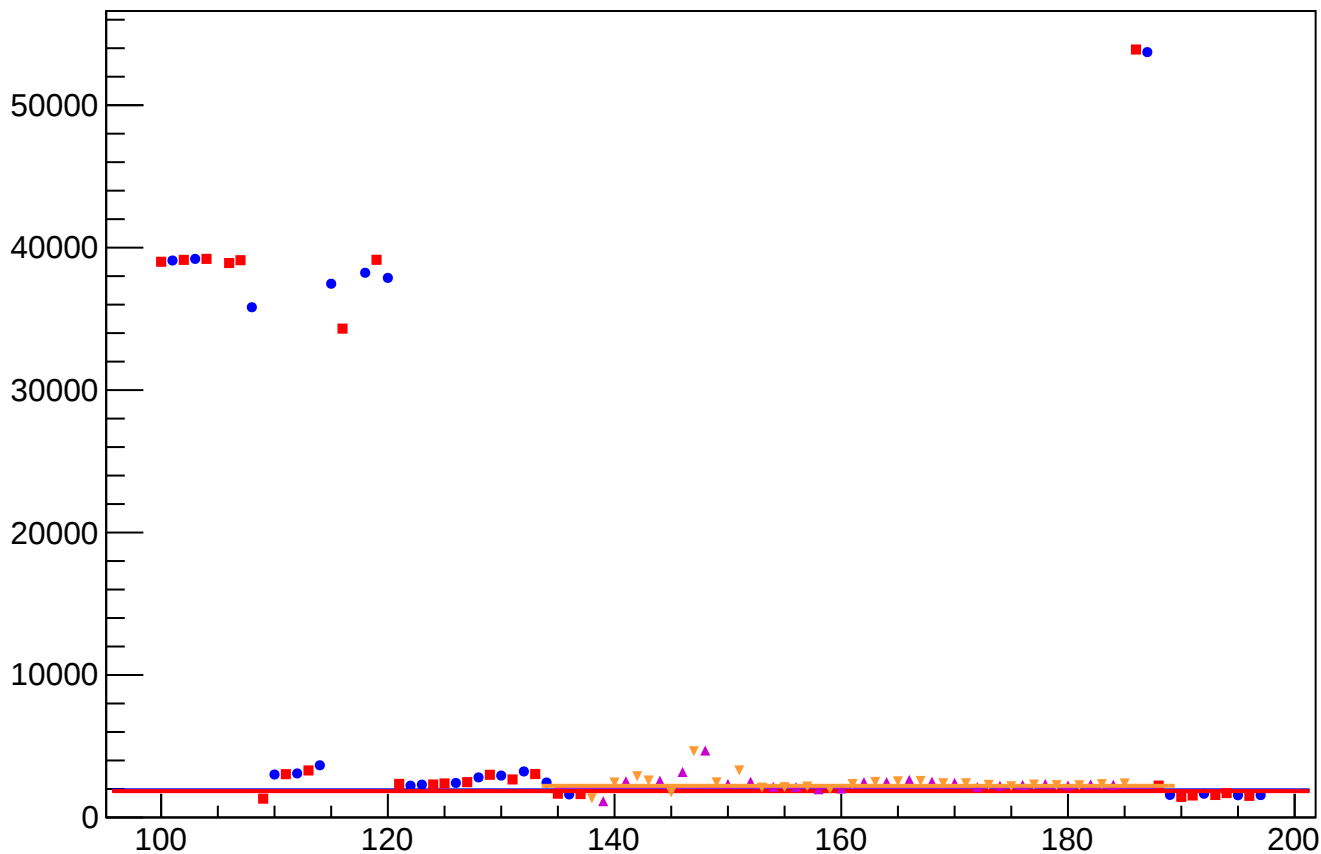
Right: 0.029 $\pm$ 0.499 χ^2/NDF : 62.4/47

In: 0.042 $\pm$ 0.436 χ^2/NDF : 48.9/44

Out: -0.848 $\pm$ 0.420 χ^2/NDF : 56.0/50

All: -0.420 $\pm$ 0.302 χ^2/NDF : 107.0/95

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1904.347+/-0.520 χ^2/NDF : 5789223.4/21

Left Out: 2222.081+/-0.378 χ^2/NDF : 1422440.9/24

Right Out: 1846.350+/-0.480 χ^2/NDF : 6419752.8/25

Left In: 2169.443+/-0.383 χ^2/NDF : 1974869.8/22

Left: 2196.064+/-0.269 χ^2/NDF : 3406878.6/47

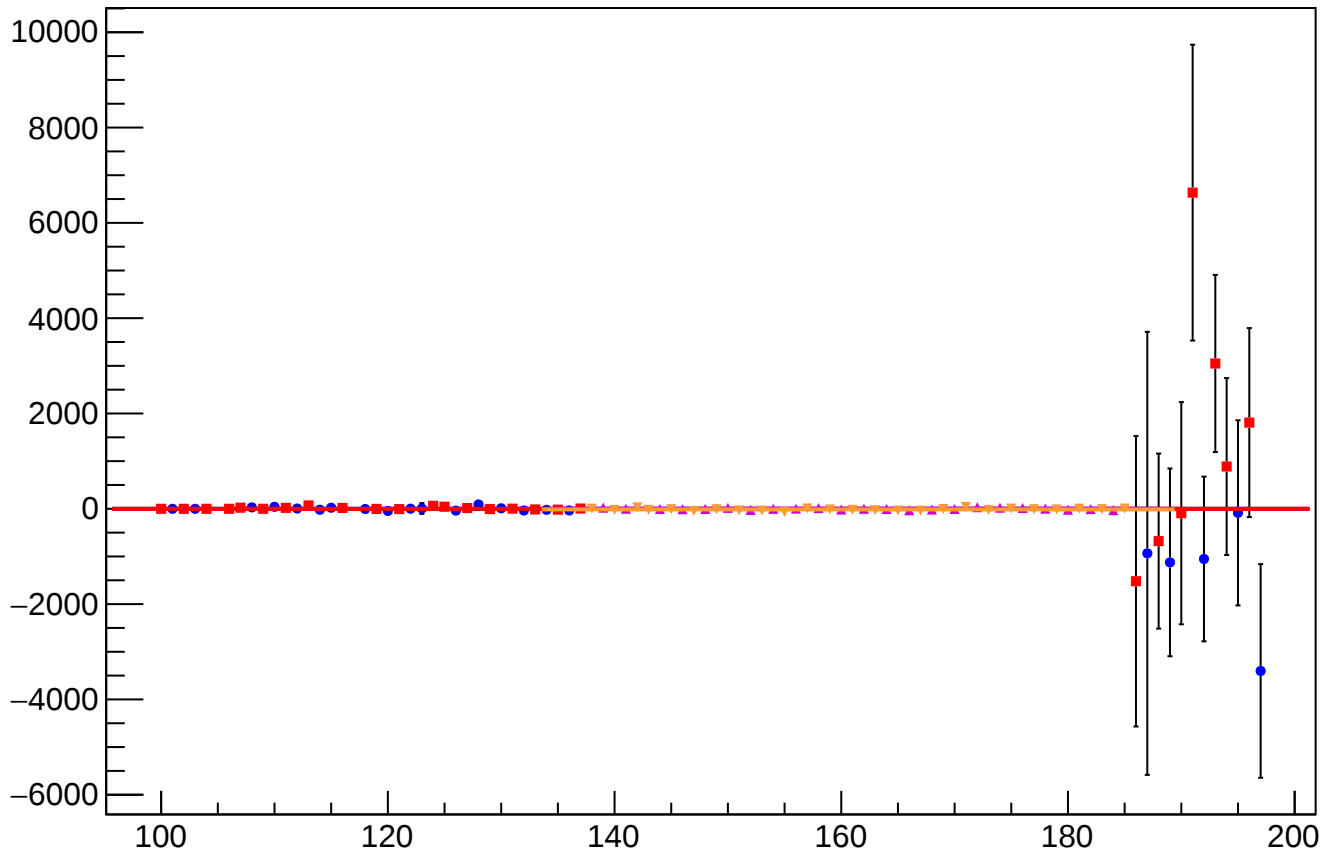
Right: 1873.017+/-0.353 χ^2/NDF : 12215698.6/47

In: 2076.280+/-0.308 χ^2/NDF : 7932721.9/44

Out: 2077.978+/-0.297 χ^2/NDF : 8220468.0/50

All: 2077.160+/-0.214 χ^2/NDF : 16153205.6/95

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 19.6/21

Left Out: -13.484 $\pm$ 2.800 χ^2/NDF : 58.7/24

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 24.2/25

Left In: 0.459 $\pm$ 2.917 χ^2/NDF : 29.0/22

Left: -6.796 $\pm$ 2.020 χ^2/NDF : 99.5/47

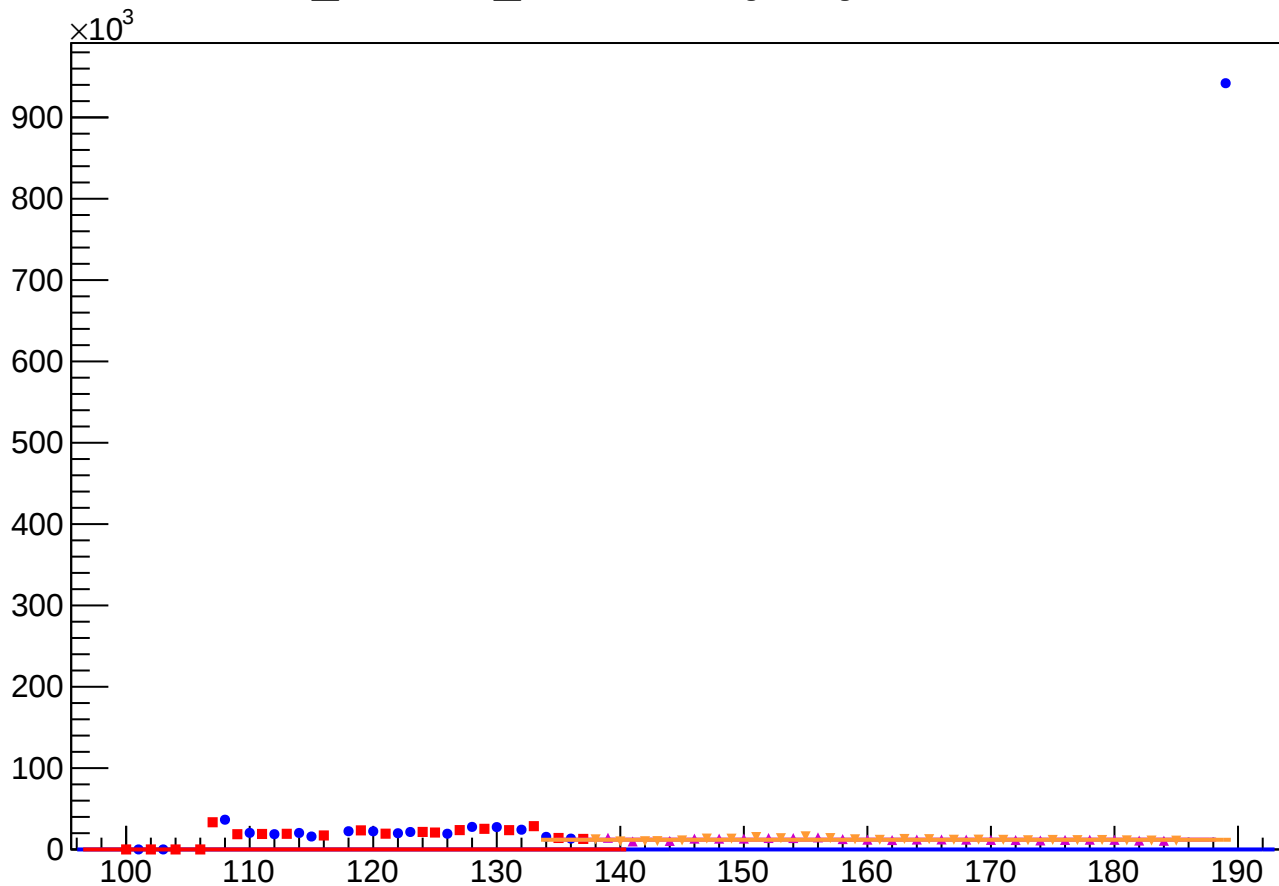
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 44.3/47

In: 0.013 $\pm$ 0.017 χ^2/NDF : 48.6/44

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 106.1/50

All: 0.004 $\pm$ 0.012 χ^2/NDF : 155.2/95

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641 $\pm$ 0.012 χ^2 /NDF: 11125273.3/17

Left Out: 11910.325 $\pm$ 1.980 χ^2 /NDF: 476504.3/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11063399.8/18

Left In: 12064.761 $\pm$ 2.062 χ^2 /NDF: 368452.5/22

Left: 11984.403 $\pm$ 1.428 χ^2 /NDF: 847874.4/47

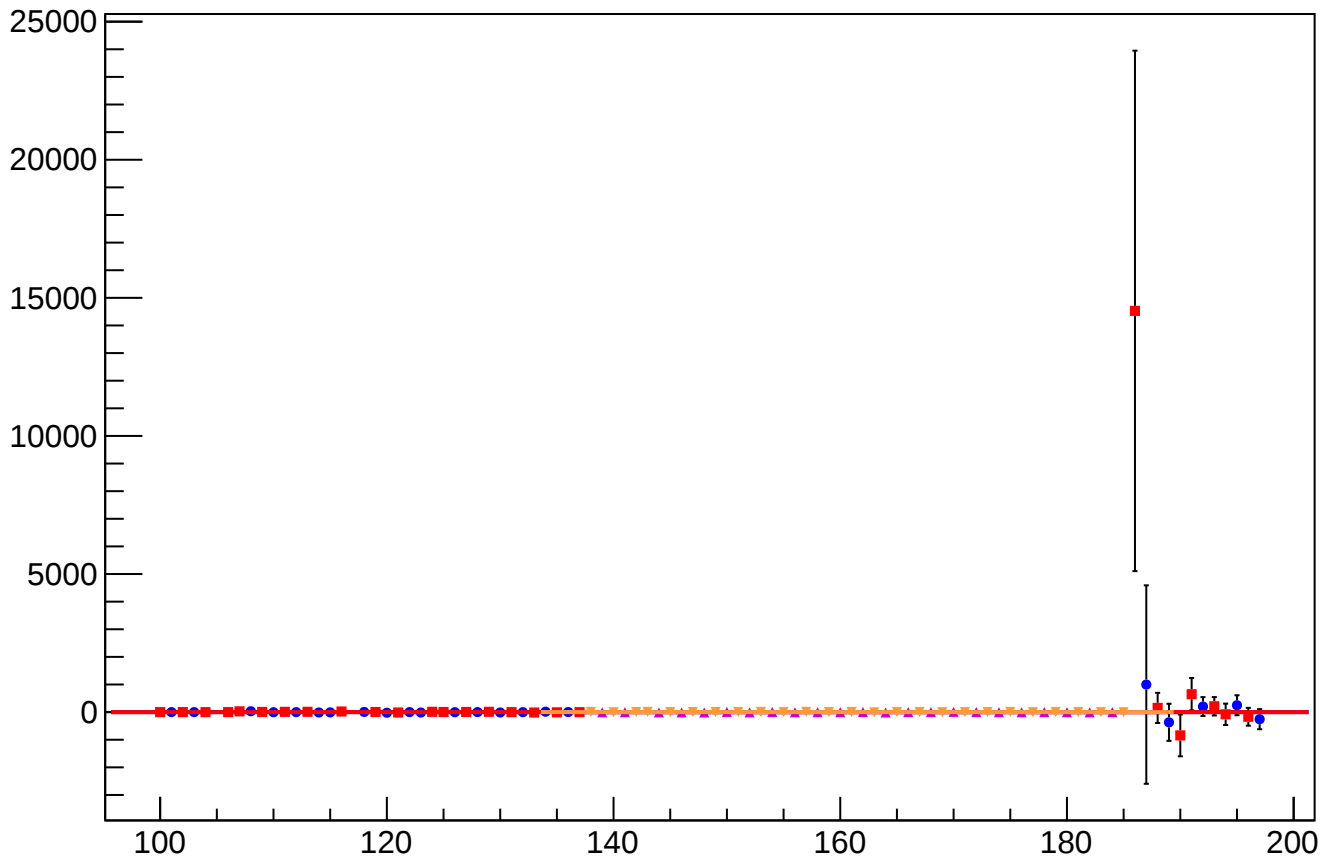
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

In: 19.067 $\pm$ 0.012 χ^2 /NDF: 45607591.7/40

Out: 18.703 $\pm$ 0.011 χ^2 /NDF: 47605245.6/43

All: 18.871 $\pm$ 0.008 χ^2 /NDF: 93213311.5/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 14.6/21

Left Out: 1.649 ± 1.022 χ^2/NDF : 18.4/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 24.4/25

Left In: -0.939 ± 1.049 χ^2/NDF : 35.6/22

Left: 0.388 ± 0.732 χ^2/NDF : 57.1/47

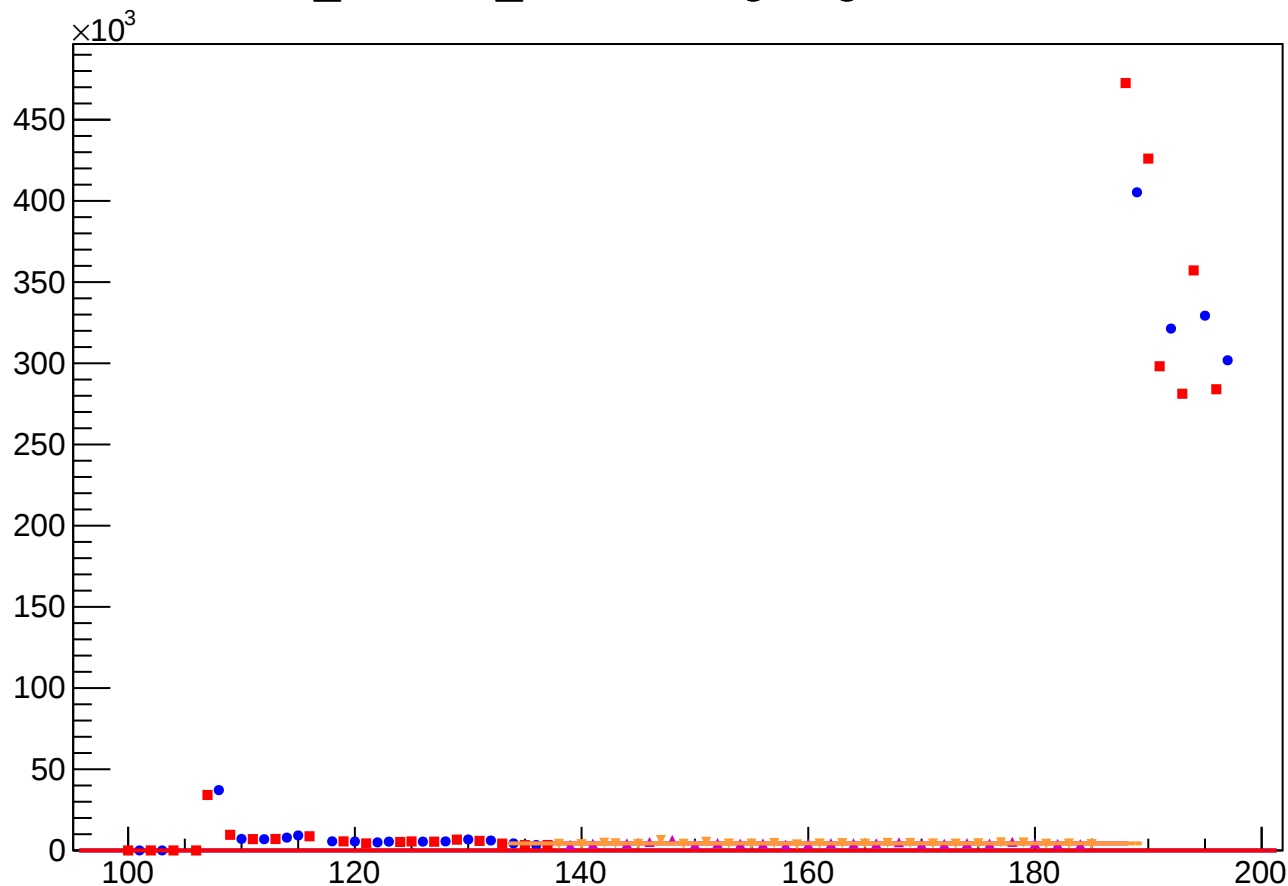
Right: -0.007 ± 0.006 χ^2/NDF : 40.4/47

In: 0.001 ± 0.009 χ^2/NDF : 51.0/44

Out: -0.014 ± 0.009 χ^2/NDF : 45.4/50

All: -0.007 ± 0.006 χ^2/NDF : 97.8/95

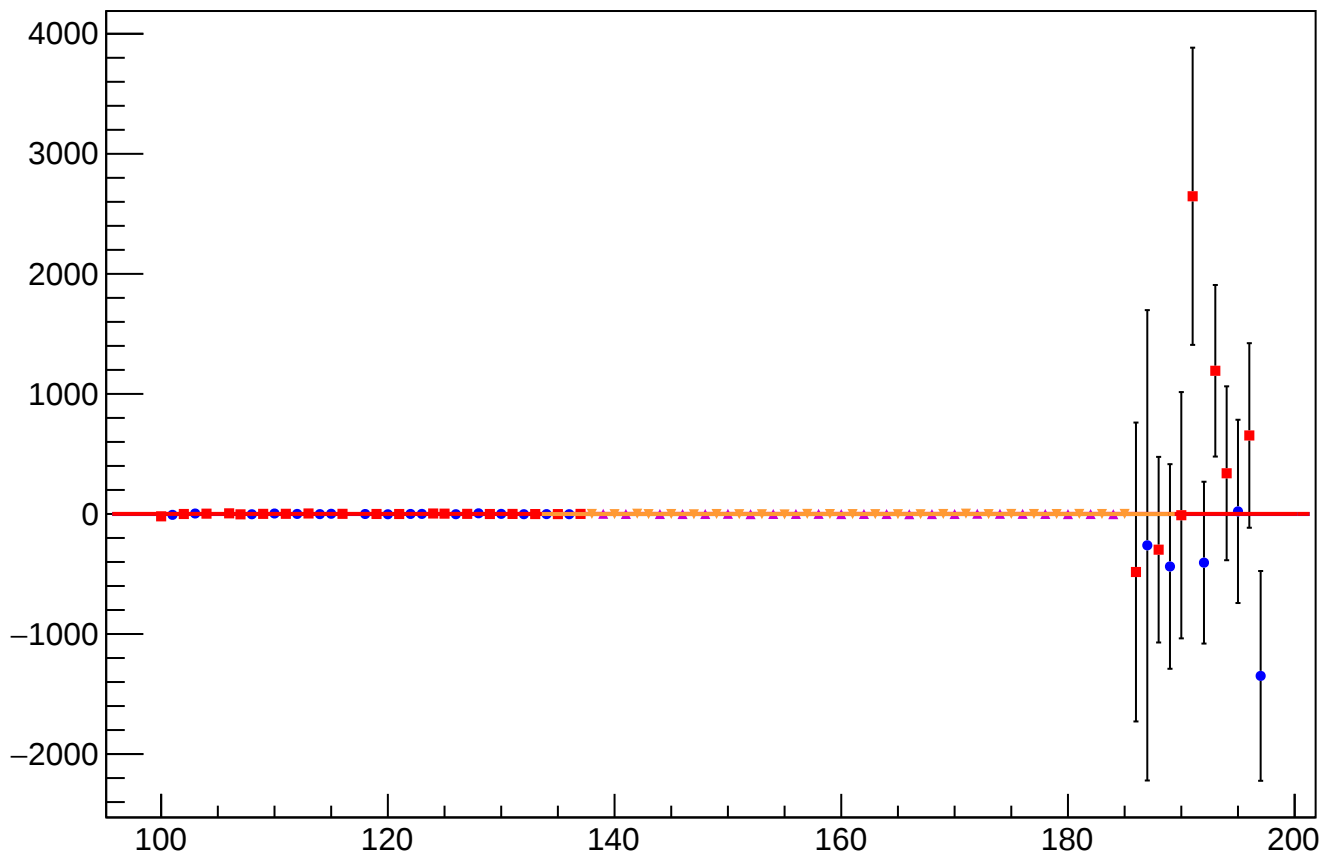
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 16582804.3/20
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.855 $\pm$ 0.006 χ^2 /NDF: 18408044.2/24
 Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47
 Right: 9.895 $\pm$ 0.004 χ^2 /NDF: 34990938.1/45
 In: 10.271 $\pm$ 0.007 χ^2 /NDF:50914542.1/43
 Out: 10.166 $\pm$ 0.006 χ^2 /NDF:54837206.0/49
 All: 10.215 $\pm$ 0.004 χ^2 /NDF: 105751888.5/93

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 χ^2/NDF : 25.7/21

Left Out: -0.775 ± 0.165 χ^2/NDF : 58.5/24

Right Out: 0.639 ± 0.501 χ^2/NDF : 21.7/25

Left In: 0.018 ± 0.171 χ^2/NDF : 29.4/22

Left: -0.393 ± 0.119 χ^2/NDF : 99.1/47

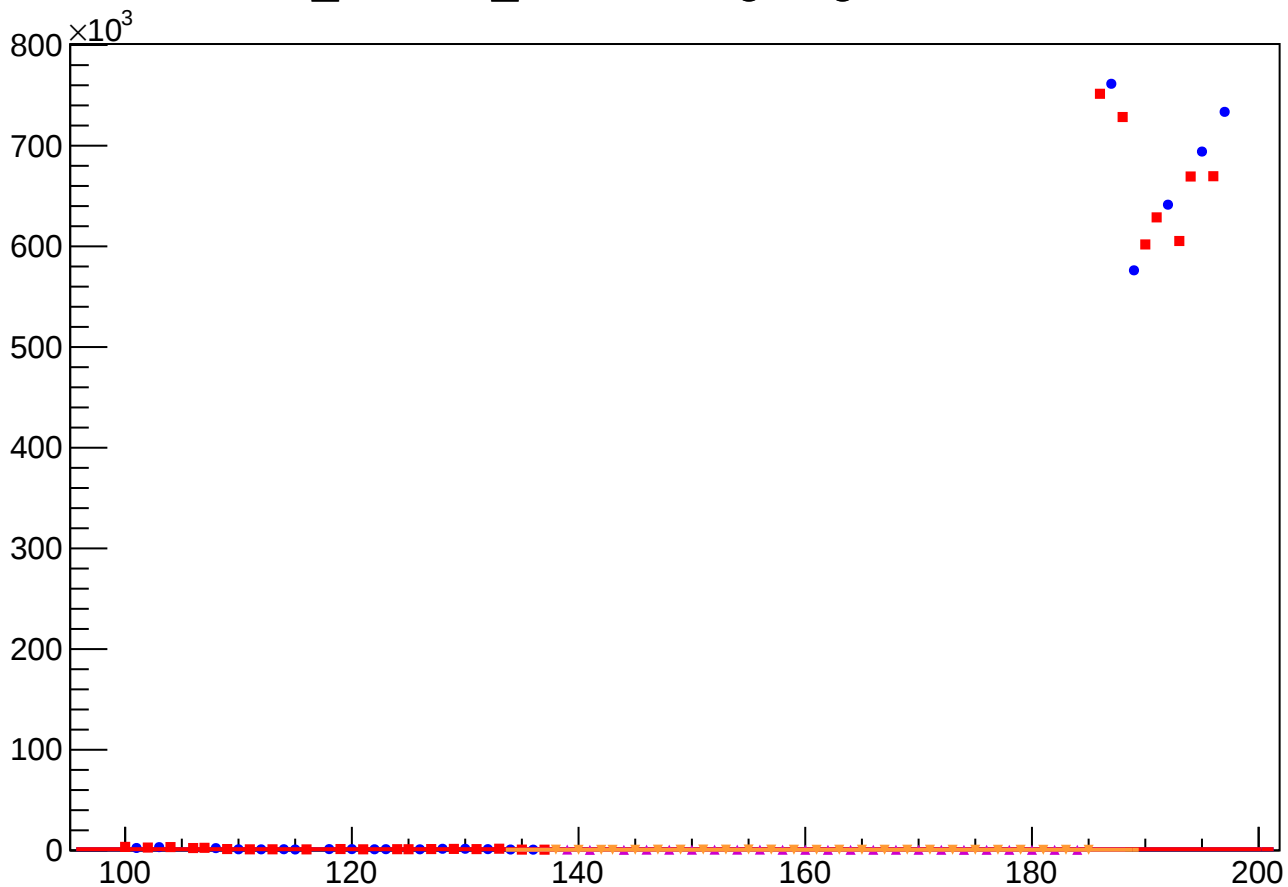
Right: -0.063 ± 0.348 χ^2/NDF : 51.2/47

In: -0.063 ± 0.161 χ^2/NDF : 57.2/44

Out: -0.637 ± 0.156 χ^2/NDF : 87.3/50

All: -0.359 ± 0.112 χ^2/NDF : 151.1/95

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1168.181 $\pm$ 0.342 χ^2 /NDF: 7642125.8/21

Left Out: 700.984 $\pm$ 0.116 χ^2 /NDF: 392855.4/24

Right Out: 1249.482 $\pm$ 0.355 χ^2 /NDF: 9938187.9/25

Left In: 706.971 $\pm$ 0.121 χ^2 /NDF: 332011.4/22

Left: 703.867 $\pm$ 0.084 χ^2 /NDF: 726141.0/47

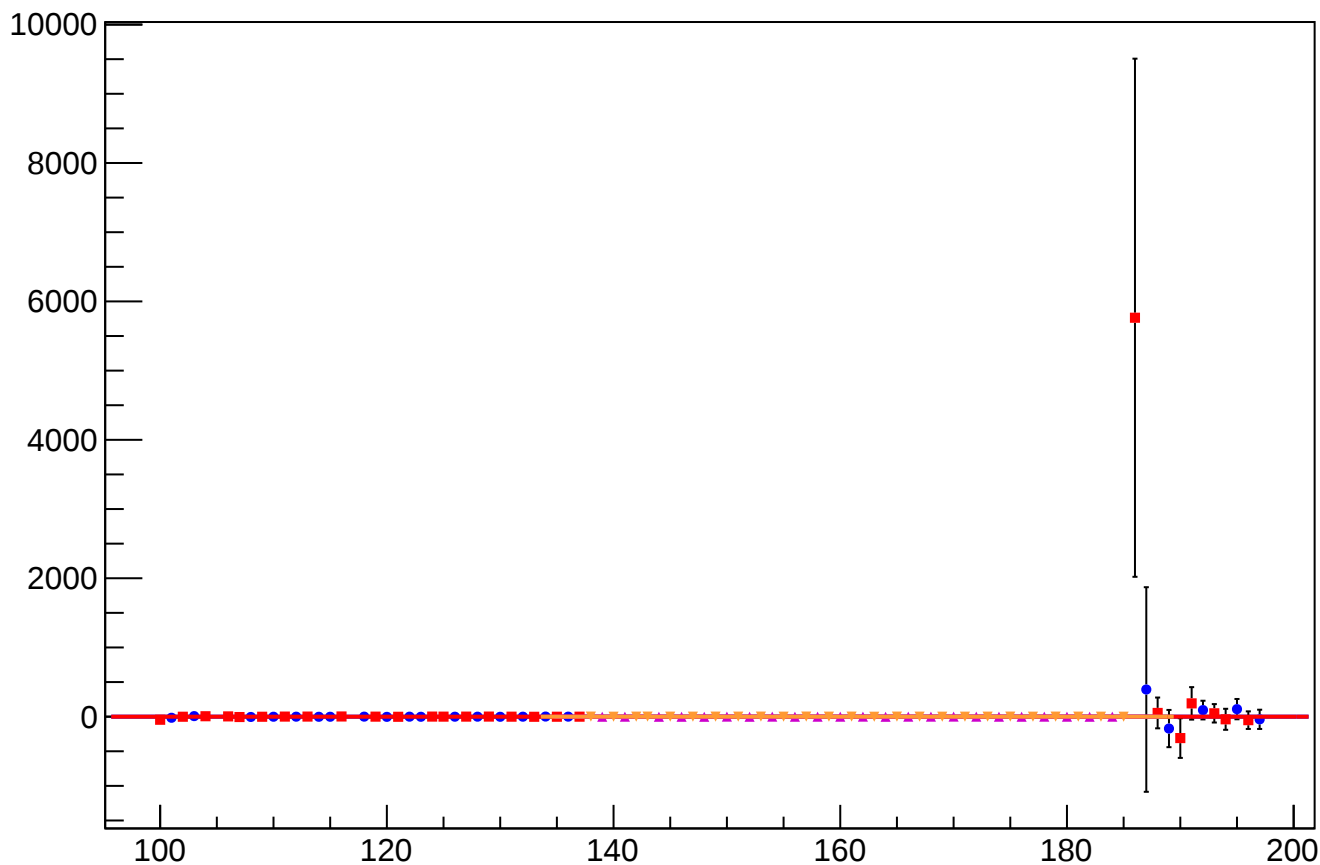
Right: 1207.316 $\pm$ 0.246 χ^2 /NDF: 17607577.2/47

In: 758.200 $\pm$ 0.114 χ^2 /NDF: 9594374.9/44

Out: 754.315 $\pm$ 0.111 χ^2 /NDF: 12491038.0/50

All: 756.201 $\pm$ 0.079 χ^2 /NDF: 22086012.1/95

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.059 +/- 0.269 χ^2/NDF : 20.7/21

Left Out: 0.233 +/- 0.123 χ^2/NDF : 18.0/24

Right Out: -0.280 +/- 0.264 χ^2/NDF : 25.2/25

Left In: -0.126 +/- 0.126 χ^2/NDF : 35.0/22

Left: 0.059 +/- 0.088 χ^2/NDF : 57.1/47

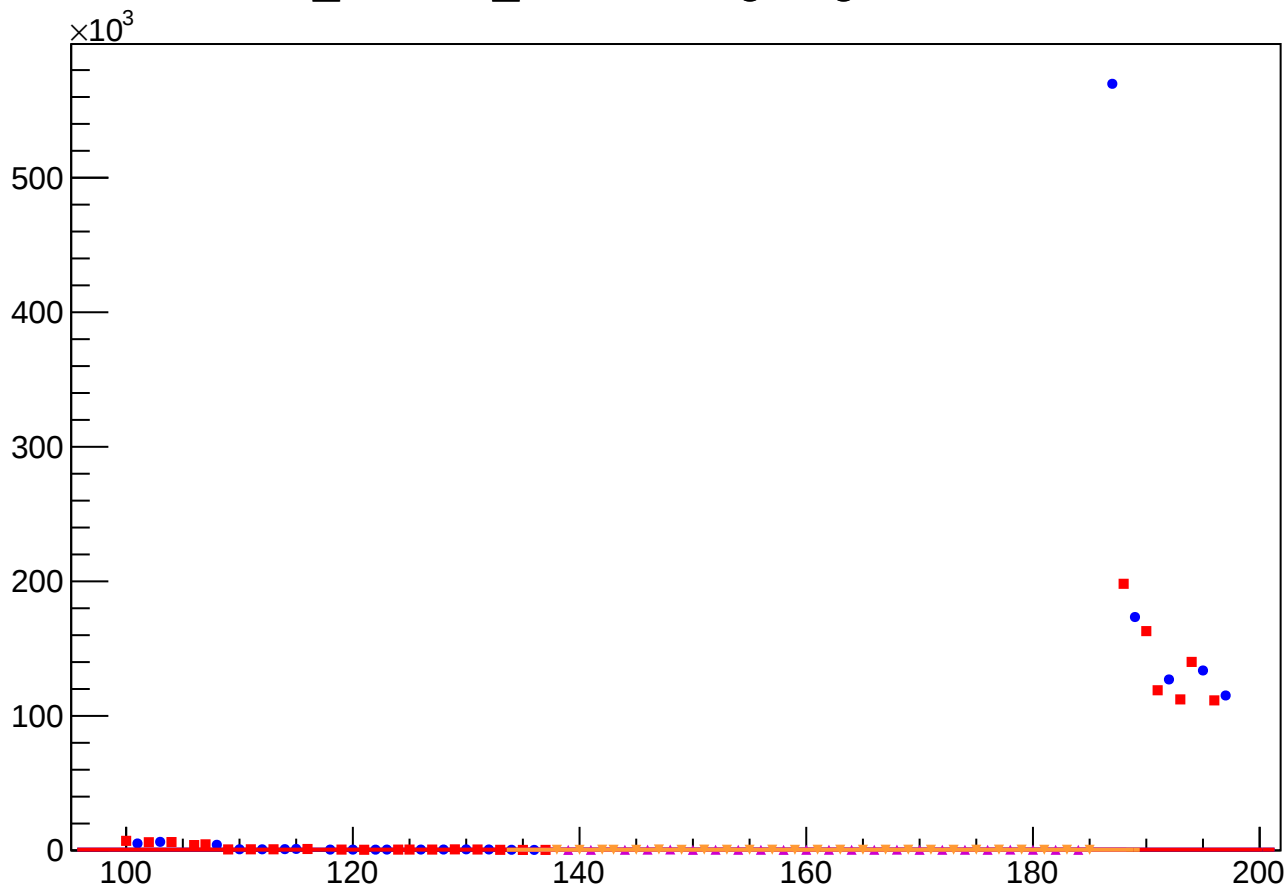
Right: -0.171 +/- 0.189 χ^2/NDF : 46.2/47

In: -0.114 +/- 0.114 χ^2/NDF : 55.7/44

Out: 0.142 +/- 0.111 χ^2/NDF : 46.2/50

All: 0.018 +/- 0.080 χ^2/NDF : 104.6/95

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 610.955 $\pm$ 0.190 χ^2 /NDF: 9017393.1/21

Left Out: 522.220 $\pm$ 0.087 χ^2 /NDF: 330405.3/24

Right Out: 600.733 $\pm$ 0.187 χ^2 /NDF: 10907258.2/24

Left In: 520.700 $\pm$ 0.089 χ^2 /NDF: 427720.5/22

Left: 521.481 $\pm$ 0.062 χ^2 /NDF: 758275.0/47

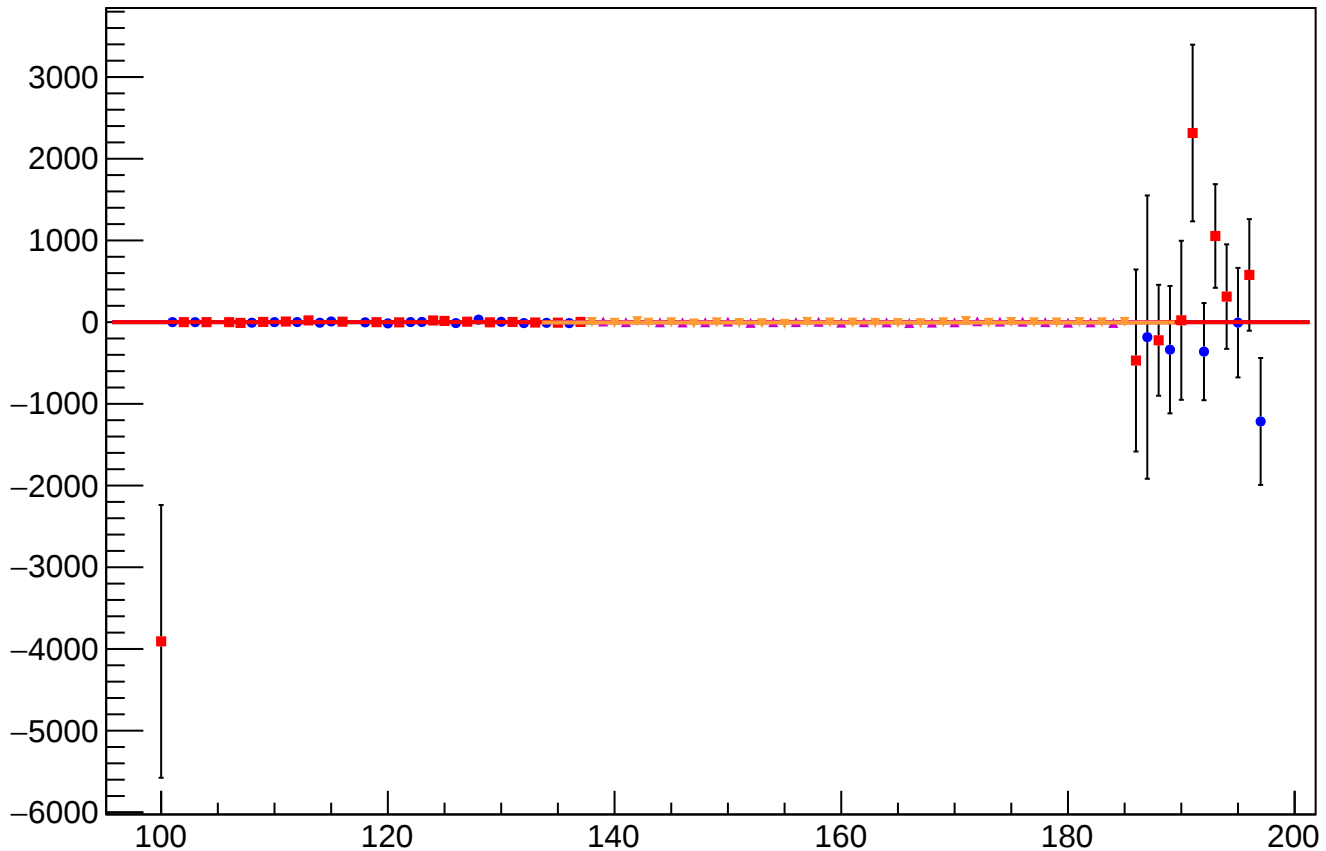
Right: 605.756 $\pm$ 0.133 χ^2 /NDF: 19926120.1/46

In: 536.970 $\pm$ 0.081 χ^2 /NDF: 9629679.8/44

Out: 536.113 $\pm$ 0.079 χ^2 /NDF: 11382795.2/49

All: 536.530 $\pm$ 0.056 χ^2 /NDF: 21012532.8/94

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 19.0/21

Left Out: -4.480+/-0.957 χ^2/NDF : 58.4/24

Right Out: 0.027+/-0.020 χ^2/NDF : 26.0/25

Left In: 0.183+/-0.994 χ^2/NDF : 29.5/22

Left: -2.236+/-0.689 χ^2/NDF : 99.3/47

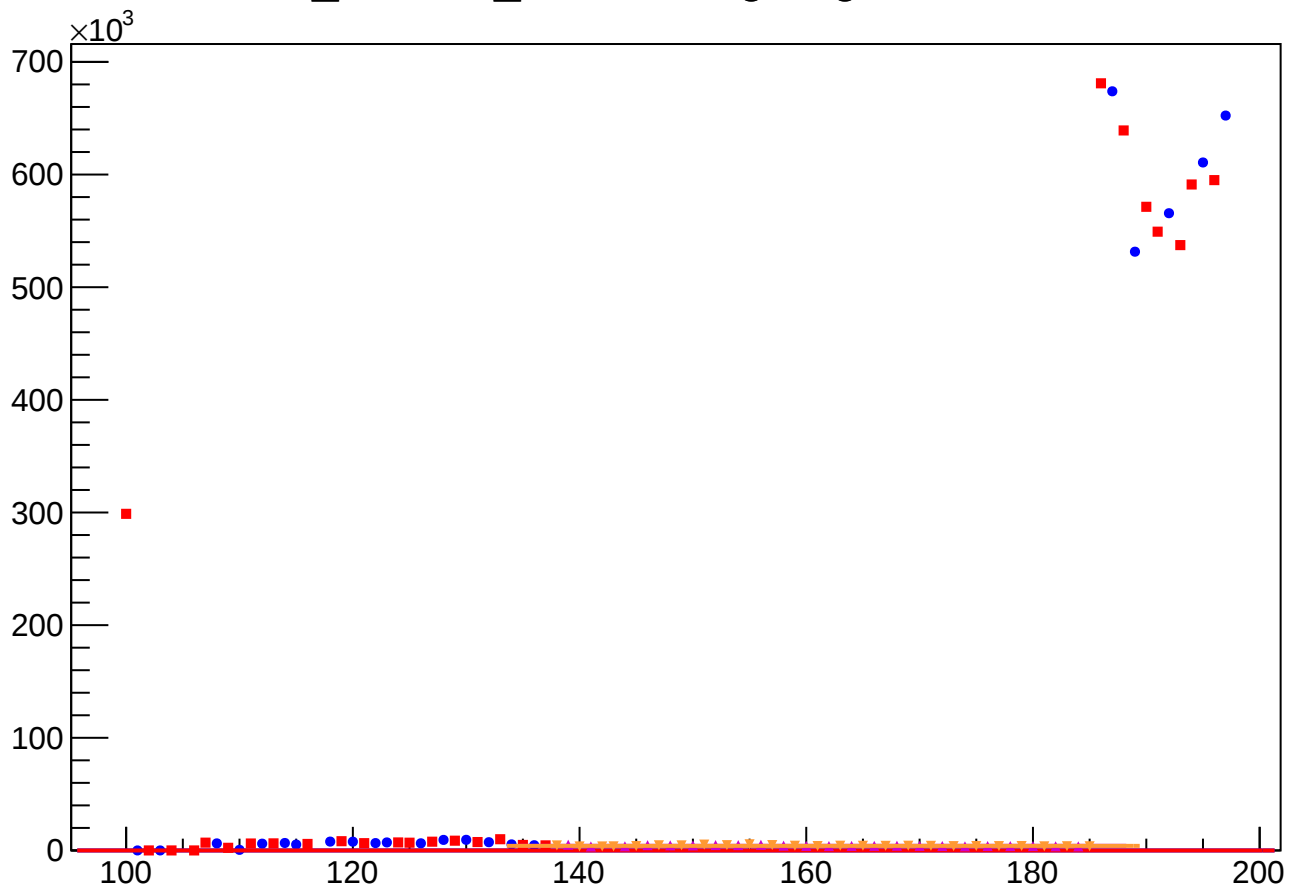
Right: 0.004+/-0.014 χ^2/NDF : 47.9/47

In: -0.022+/-0.021 χ^2/NDF : 48.5/44

Out: 0.025+/-0.020 χ^2/NDF : 106.6/50

All: 0.003+/-0.014 χ^2/NDF : 157.7/95

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341+/-0.015 χ^2 /NDF: 16571528.3/21

Left Out: 4075.147+/-0.677 χ^2 /NDF:417511.0/24

Right Out: 17.270+/-0.014 χ^2 /NDF: 19131343.1/25

Left In: 4113.993+/-0.703 χ^2 /NDF:349160.6/22

Left: 4093.835+/-0.488 χ^2 /NDF: 768256.5/47

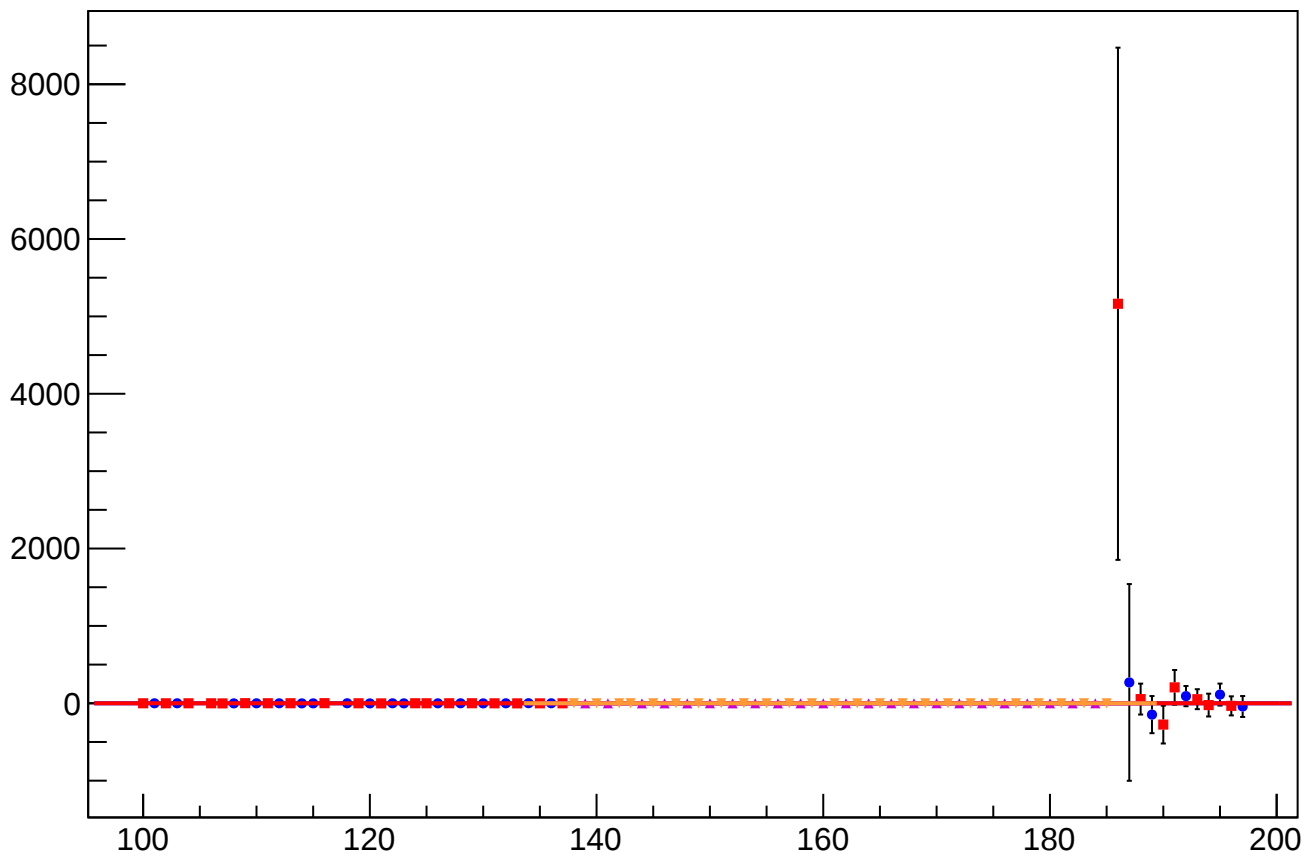
Right: 17.304+/-0.010 χ^2 /NDF: 35702883.7/47

In: 19.133+/-0.015 χ^2 /NDF:50874028.2/44

Out: 19.002+/-0.014 χ^2 /NDF:55484352.6/50

All: 19.064+/-0.010 χ^2 /NDF: 106358422.7/95

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 15.2/21

Left Out: 0.148 ± 0.076 χ^2/NDF : 17.3/24

Right Out: -0.001 ± 0.002 χ^2/NDF : 23.1/25

Left In: -0.080 ± 0.079 χ^2/NDF : 34.6/22

Left: 0.038 ± 0.055 χ^2/NDF : 56.3/47

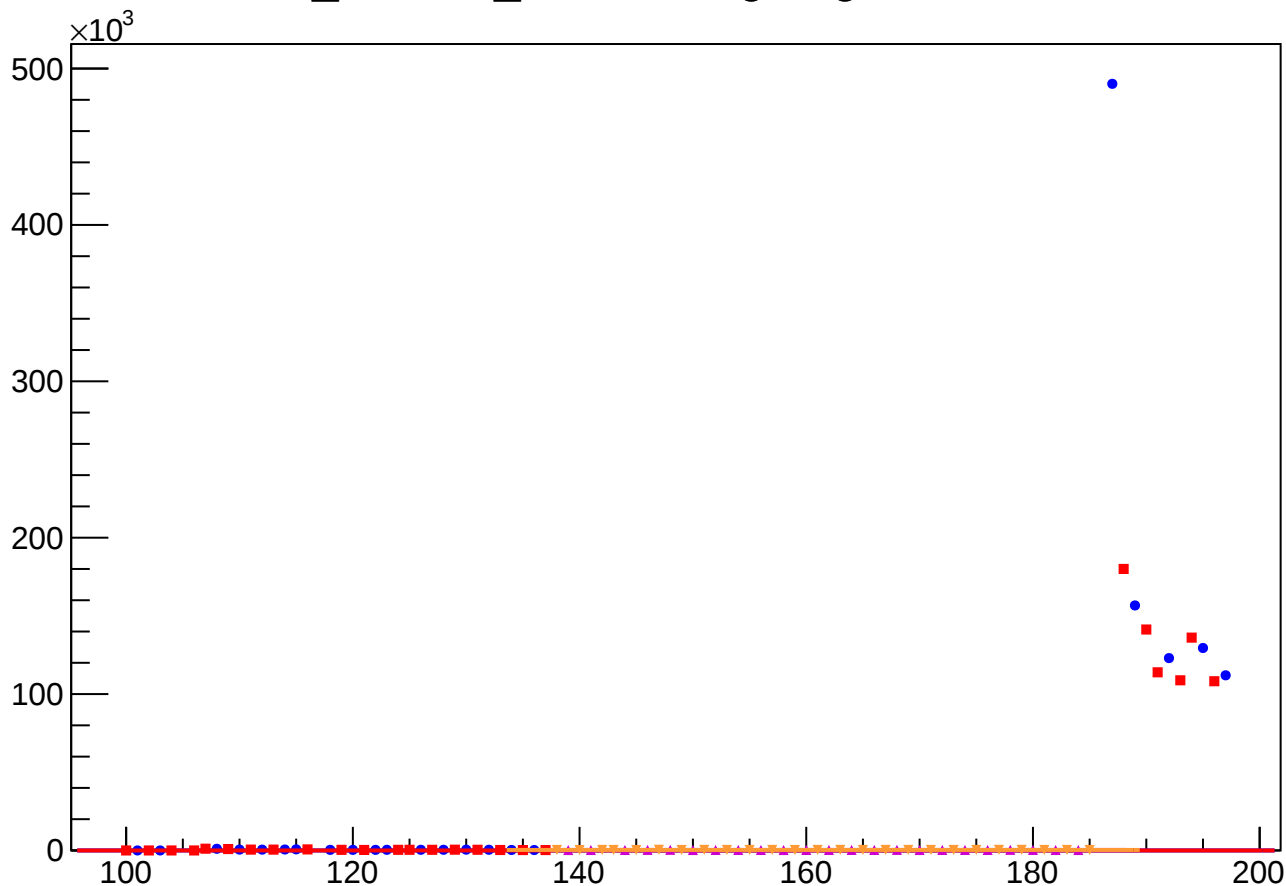
Right: -0.000 ± 0.001 χ^2/NDF : 38.5/47

In: 0.000 ± 0.002 χ^2/NDF : 50.9/44

Out: -0.001 ± 0.002 χ^2/NDF : 44.2/50

All: -0.000 ± 0.001 χ^2/NDF : 95.2/95

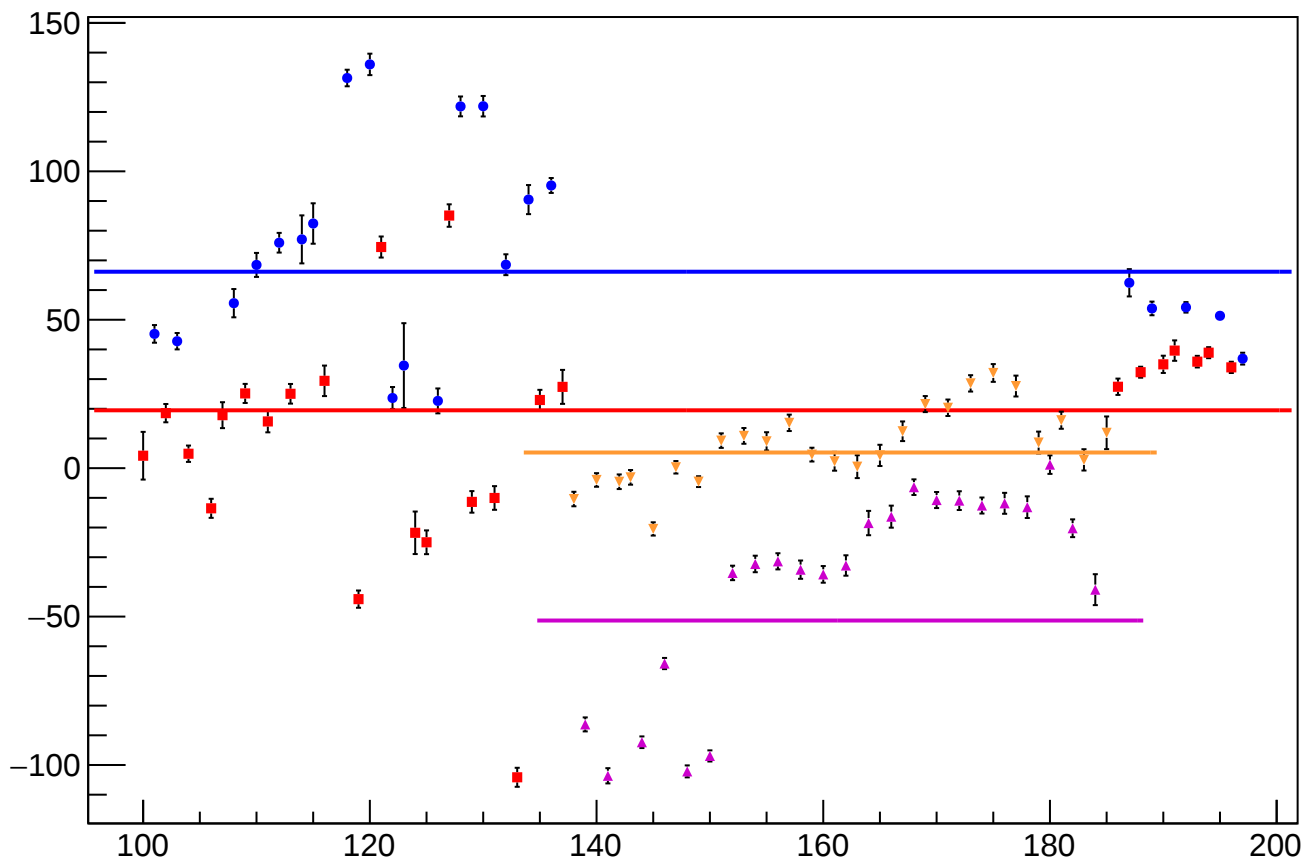
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 16970205.9/21
 Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24
 Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 18177094.7/24
 Left In: 325.626 $\pm$ 0.056 χ^2 /NDF:413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2 /NDF: 761070.2/47
 Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 35147517.8/46
 In: 1.913 $\pm$ 0.001 χ^2 /NDF:51112346.2/44
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:54384606.6/49
 All: 1.925 $\pm$ 0.001 χ^2 /NDF: 105497099.4/94

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 66.180 $\pm$ 0.640 χ^2 /NDF: 2375.1/21

Left Out: 5.276 $\pm$ 0.544 χ^2 /NDF:556.2/24

Right Out: 19.492 $\pm$ 0.591 χ^2 /NDF: 3302.9/25

Left In: -51.328 $\pm$ 0.558 χ^2 /NDF:4257.8/22

Left: -22.298 $\pm$ 0.390 χ^2 /NDF: 10084.6/47

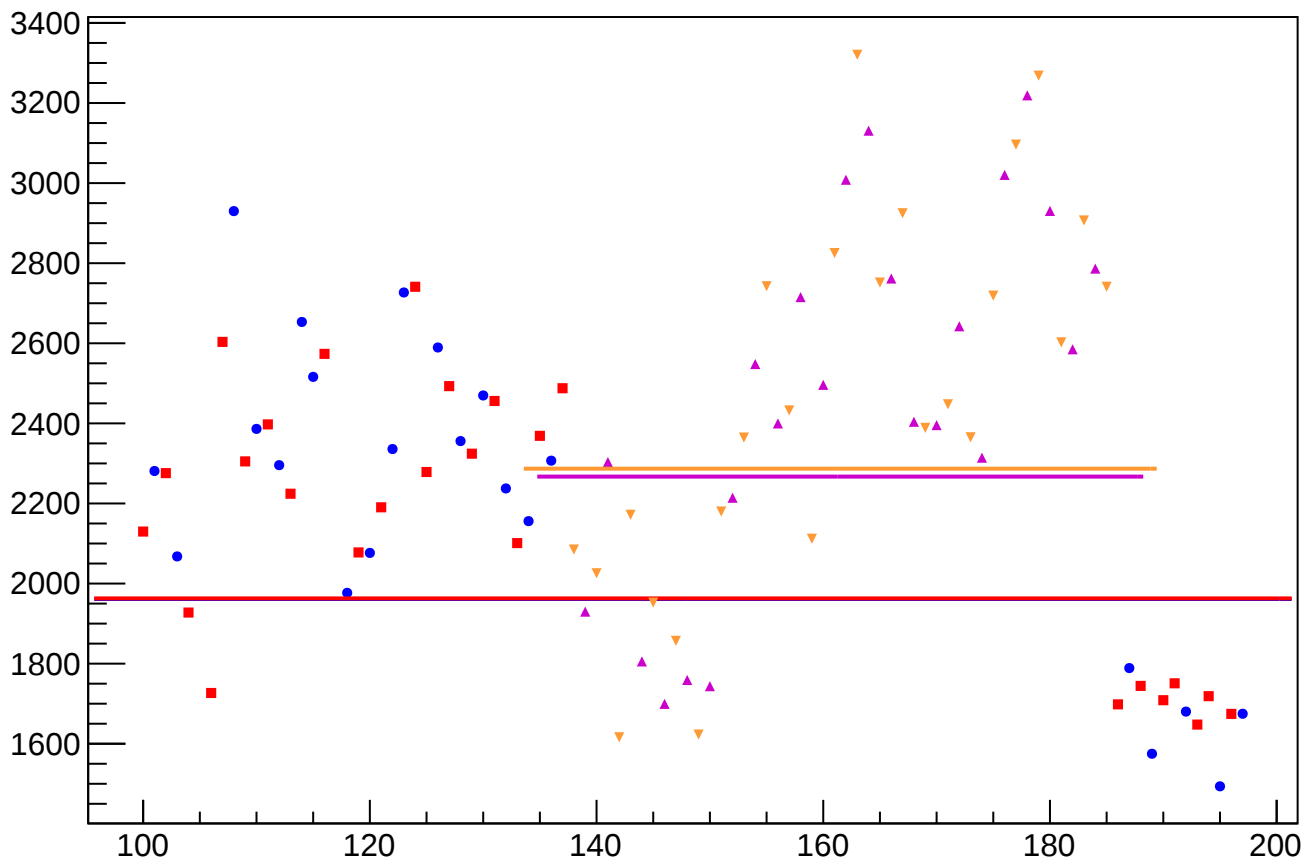
Right: 40.975 $\pm$ 0.434 χ^2 /NDF: 8547.4/47

In: -0.579 $\pm$ 0.421 χ^2 /NDF:25761.0/44

Out: 11.795 $\pm$ 0.400 χ^2 /NDF:4172.0/50

All: 5.916 $\pm$ 0.290 χ^2 /NDF: 30386.9/95

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1961.483 ± 0.453 $\chi^2/\text{NDF}: 685533.0/21$

Left Out: 2286.871 ± 0.385 $\chi^2/\text{NDF}: 1360490.8/24$

Right Out: 1962.887 ± 0.418 $\chi^2/\text{NDF}: 554772.3/25$

Left In: 2267.097 ± 0.395 $\chi^2/\text{NDF}: 1313364.4/22$

Left: 2277.239 ± 0.276 $\chi^2/\text{NDF}: 2675141.7/47$

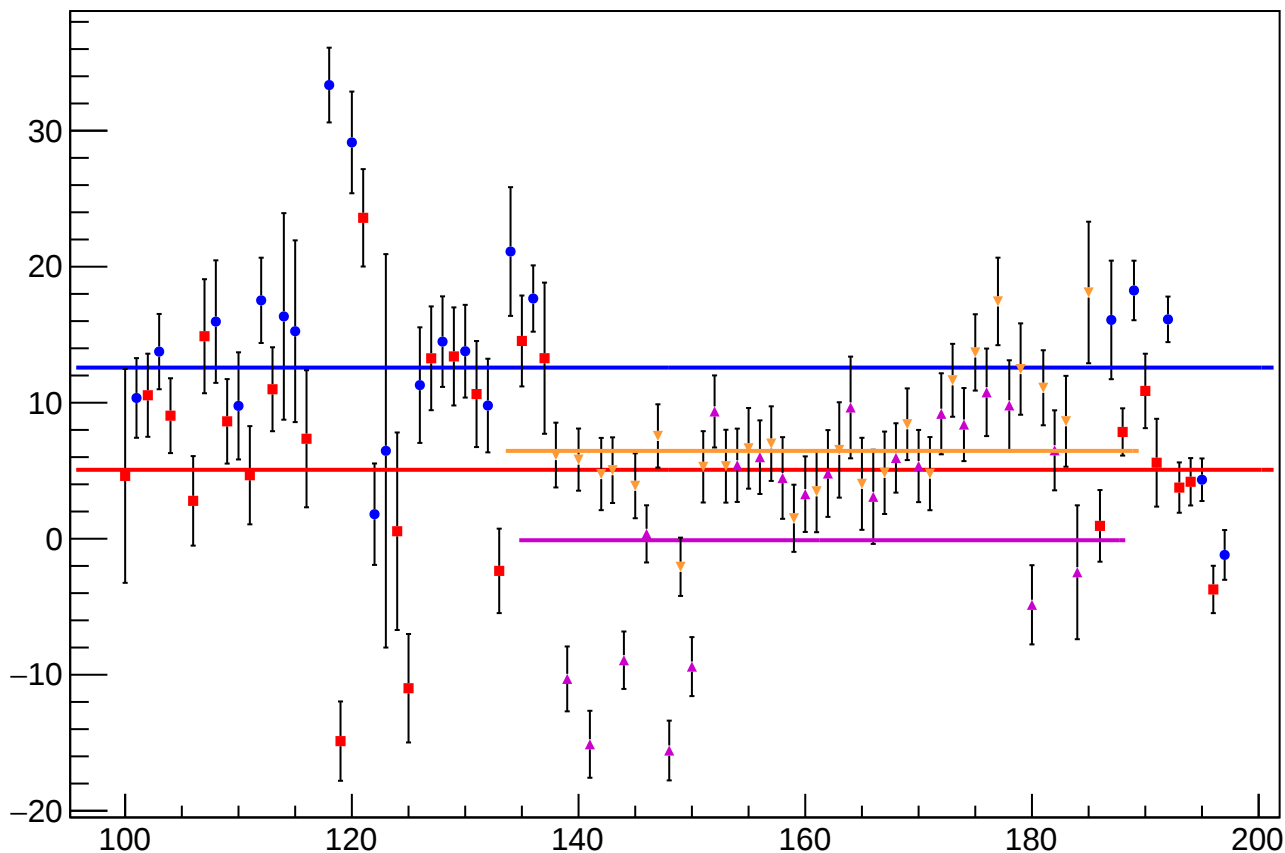
Right: 1962.241 ± 0.307 $\chi^2/\text{NDF}: 1240310.6/47$

In: 2135.110 ± 0.298 $\chi^2/\text{NDF}: 2257669.6/44$

Out: 2138.286 ± 0.283 $\chi^2/\text{NDF}: 2240389.7/50$

All: 2136.777 ± 0.205 $\chi^2/\text{NDF}: 4498119.1/95$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 12.582 ± 0.616 $\chi^2/\text{NDF}: 195.1/21$

Left Out: 6.458 ± 0.548 $\chi^2/\text{NDF}: 58.7/24$

Right Out: 5.068 ± 0.568 $\chi^2/\text{NDF}: 170.4/25$

Left In: -0.110 ± 0.565 $\chi^2/\text{NDF}: 234.6/22$

Left: 3.278 ± 0.393 $\chi^2/\text{NDF}: 363.0/47$

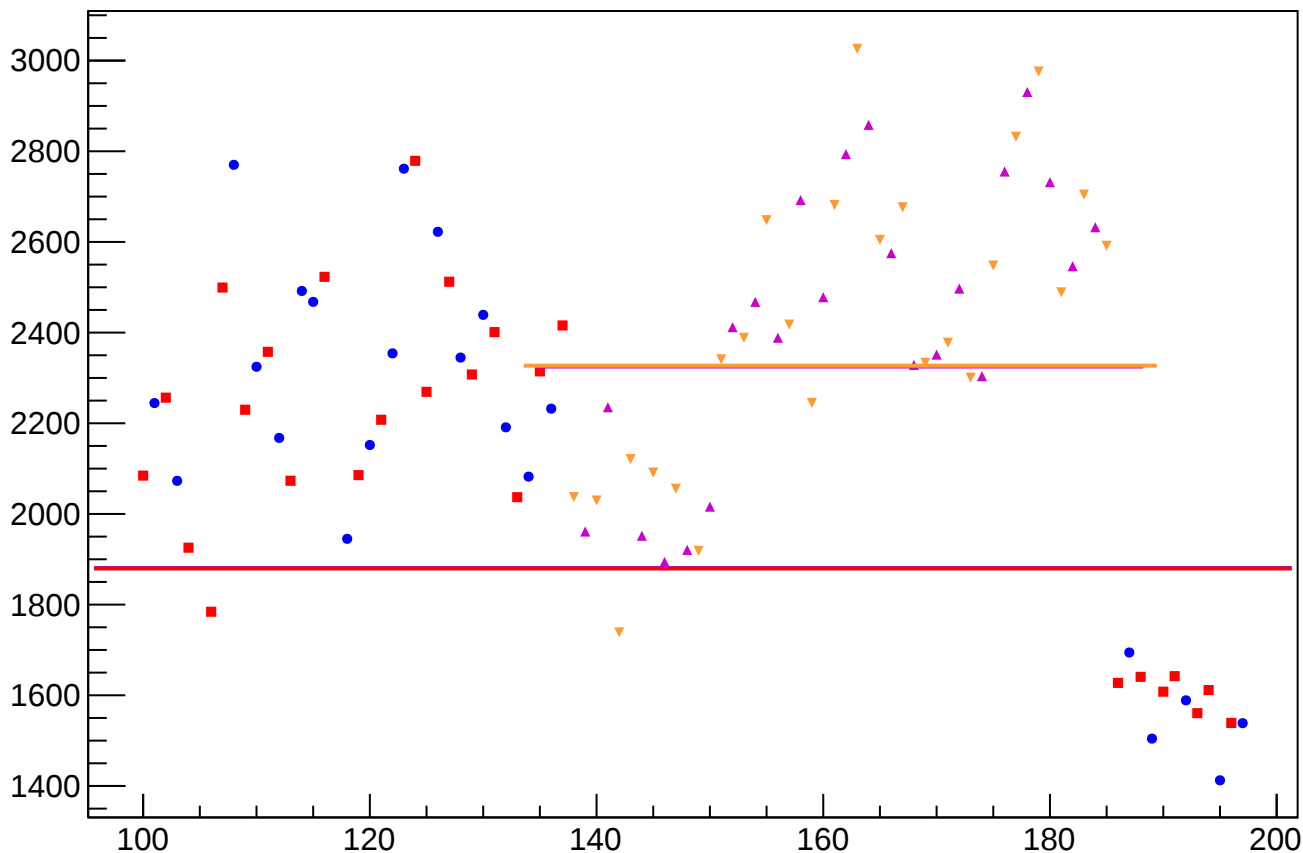
Right: 8.522 ± 0.417 $\chi^2/\text{NDF}: 446.0/47$

In: 5.693 ± 0.416 $\chi^2/\text{NDF}: 660.3/44$

Out: 5.788 ± 0.394 $\chi^2/\text{NDF}: 232.3/50$

All: 5.743 ± 0.286 $\chi^2/\text{NDF}: 892.6/95$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1880.253 $\pm$ 0.435 χ^2 /NDF: 827815.9/21

Left Out: 2327.044 $\pm$ 0.387 χ^2 /NDF: 646706.7/24

Right Out: 1879.985 $\pm$ 0.402 χ^2 /NDF: 702013.1/25

Left In: 2325.175 $\pm$ 0.400 χ^2 /NDF: 610729.2/22

Left: 2326.139 $\pm$ 0.278 χ^2 /NDF: 1257447.2/47

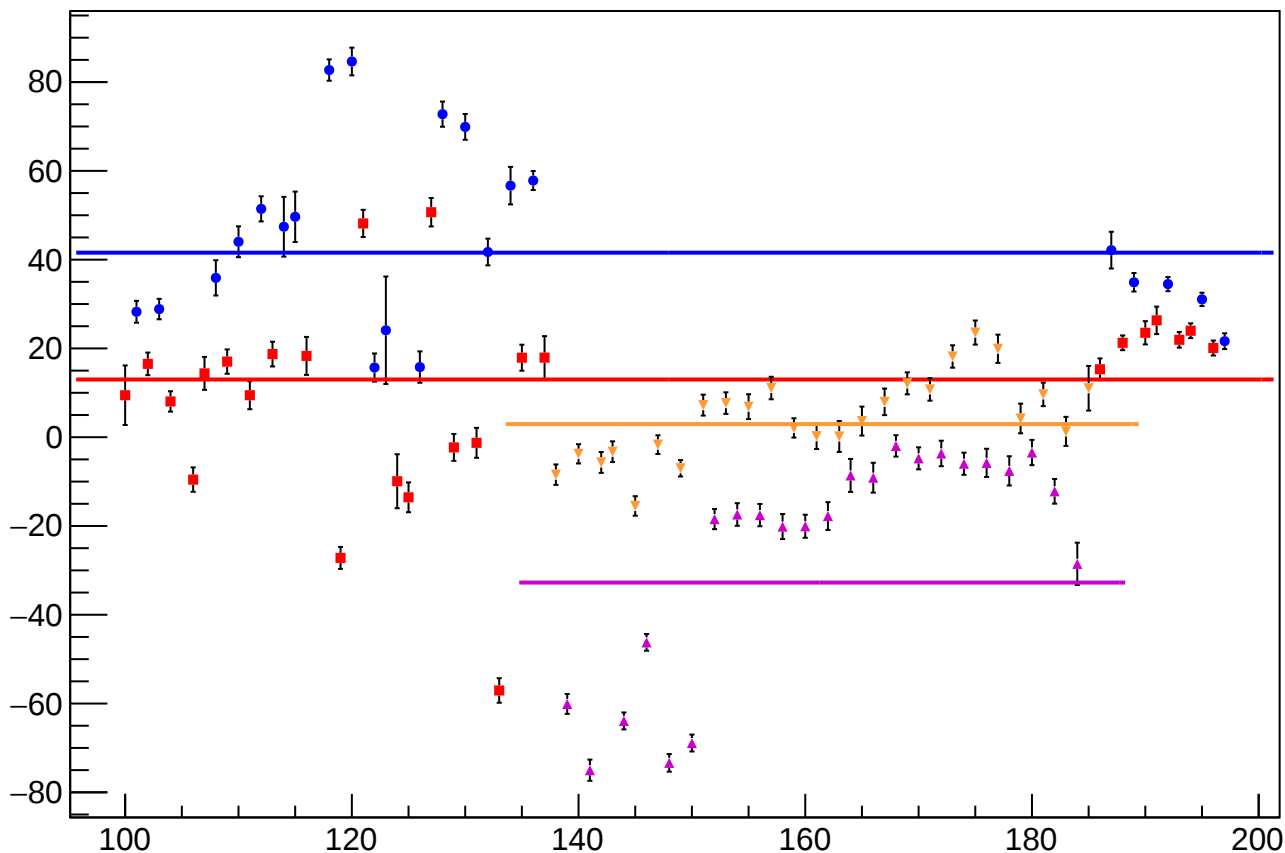
Right: 1880.108 $\pm$ 0.295 χ^2 /NDF: 1529829.2/47

In: 2121.744 $\pm$ 0.294 χ^2 /NDF: 2005299.6/44

Out: 2111.662 $\pm$ 0.279 χ^2 /NDF: 1991025.6/50

All: 2116.427 $\pm$ 0.202 χ^2 /NDF: 3996943.6/95

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 41.571 ± 0.558 χ^2/NDF : 1175.6/21

Left Out: 2.952 ± 0.512 χ^2/NDF : 337.8/24

Right Out: 13.003 ± 0.515 χ^2/NDF : 1530.6/25

Left In: -32.745 ± 0.526 χ^2/NDF : 2632.5/22

Left: -14.409 ± 0.367 χ^2/NDF : 5335.1/47

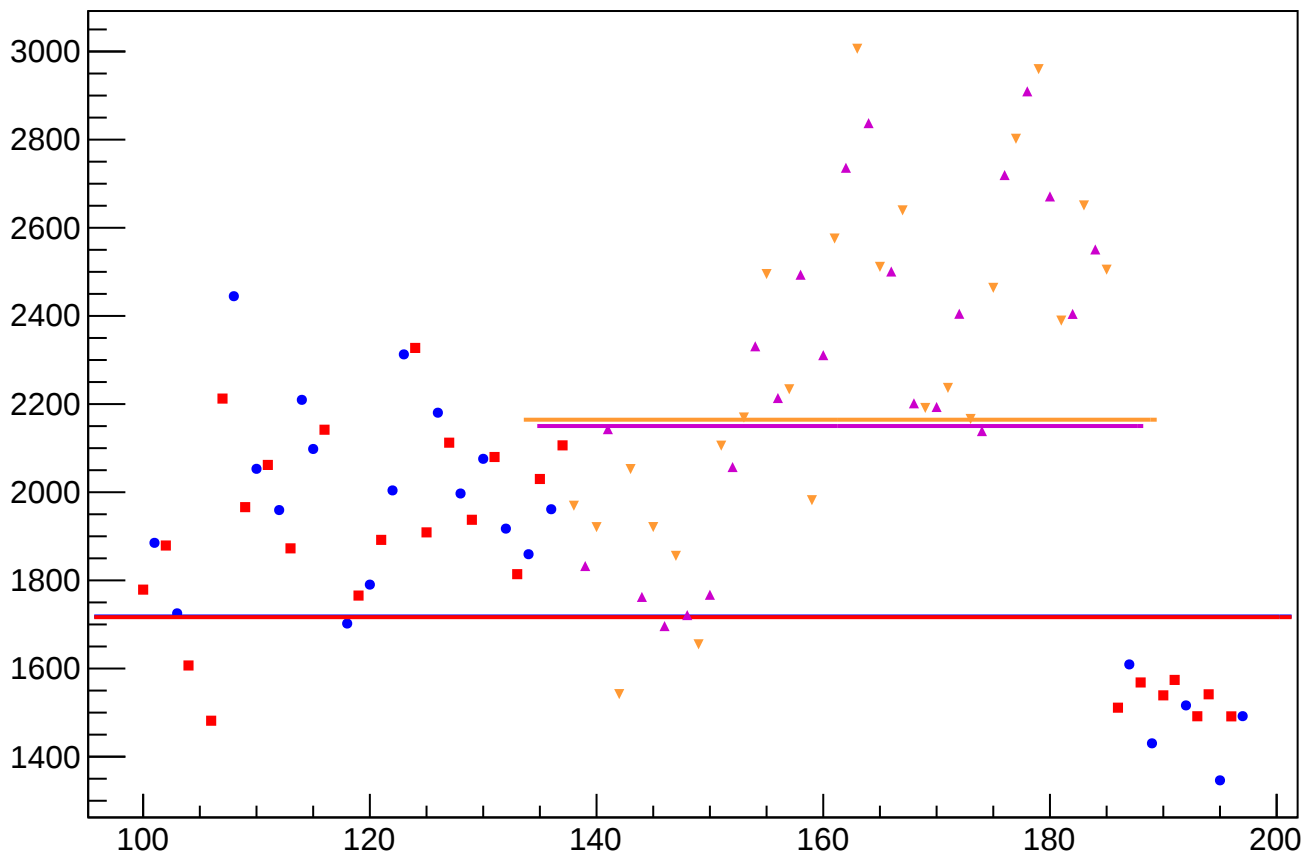
Right: 26.151 ± 0.378 χ^2/NDF : 4121.7/47

In: 2.239 ± 0.383 χ^2/NDF : 13200.8/44

Out: 7.946 ± 0.363 χ^2/NDF : 2059.9/50

All: 5.243 ± 0.263 χ^2/NDF : 15377.7/95

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1718.128 ± 0.394 $\chi^2/\text{NDF}: 499510.7/21$

Left Out: 2164.573 ± 0.362 $\chi^2/\text{NDF}: 965603.5/24$

Right Out: 1716.534 ± 0.364 $\chi^2/\text{NDF}: 399867.1/25$

Left In: 2150.190 ± 0.372 $\chi^2/\text{NDF}: 911849.7/22$

Left: 2157.578 ± 0.259 $\chi^2/\text{NDF}: 1878220.9/47$

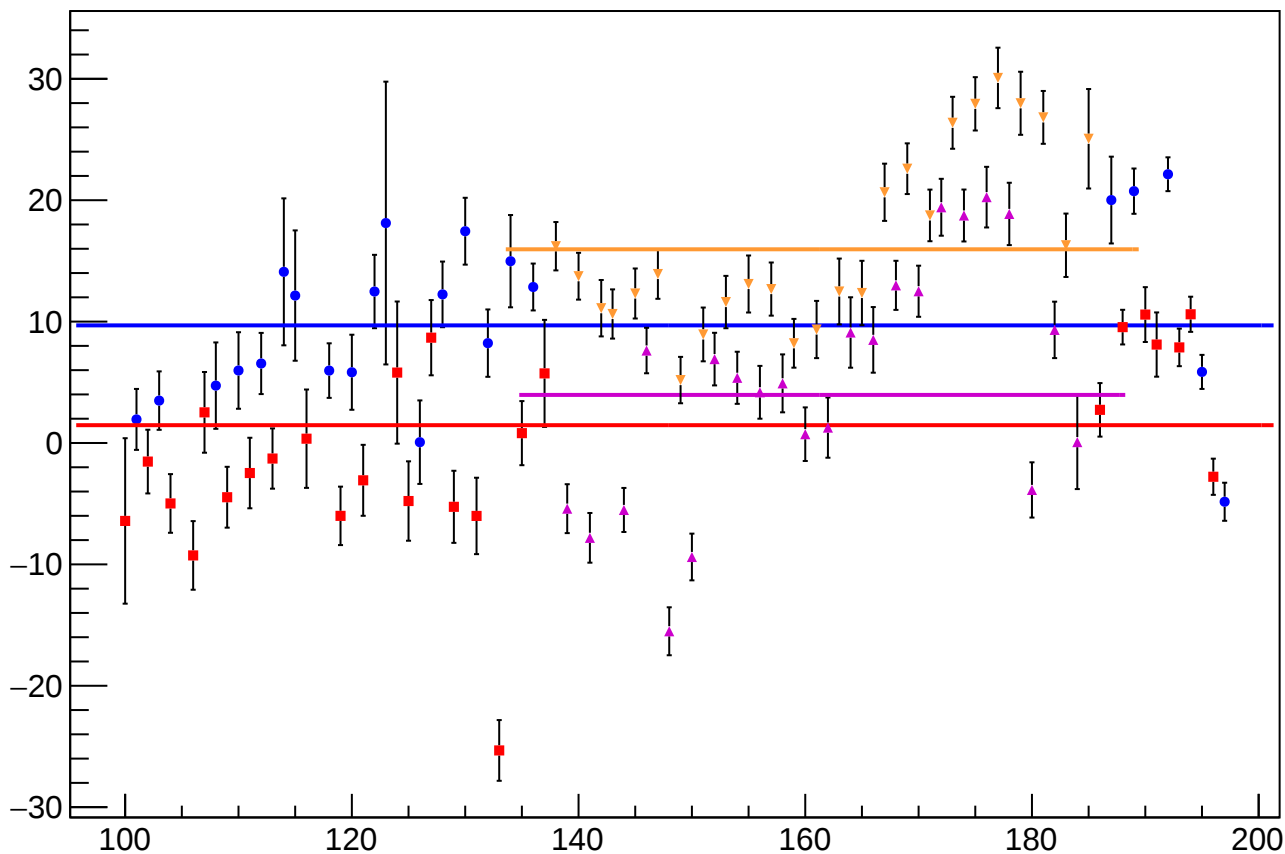
Right: 1717.268 ± 0.268 $\chi^2/\text{NDF}: 899386.6/47$

In: 1946.796 ± 0.271 $\chi^2/\text{NDF}: 2046314.9/44$

Out: 1941.948 ± 0.257 $\chi^2/\text{NDF}: 2126684.7/50$

All: 1944.244 ± 0.186 $\chi^2/\text{NDF}: 4173168.4/95$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 9.688 $\pm$ 0.515 χ^2/NDF : 265.7/21

Left Out: 15.956 $\pm$ 0.447 χ^2/NDF :245.2/24

Right Out: 1.467 $\pm$ 0.470 χ^2/NDF : 301.2/25

Left In: 3.960 $\pm$ 0.463 χ^2/NDF :464.9/22

Left: 10.161 $\pm$ 0.322 χ^2/NDF : 1057.3/47

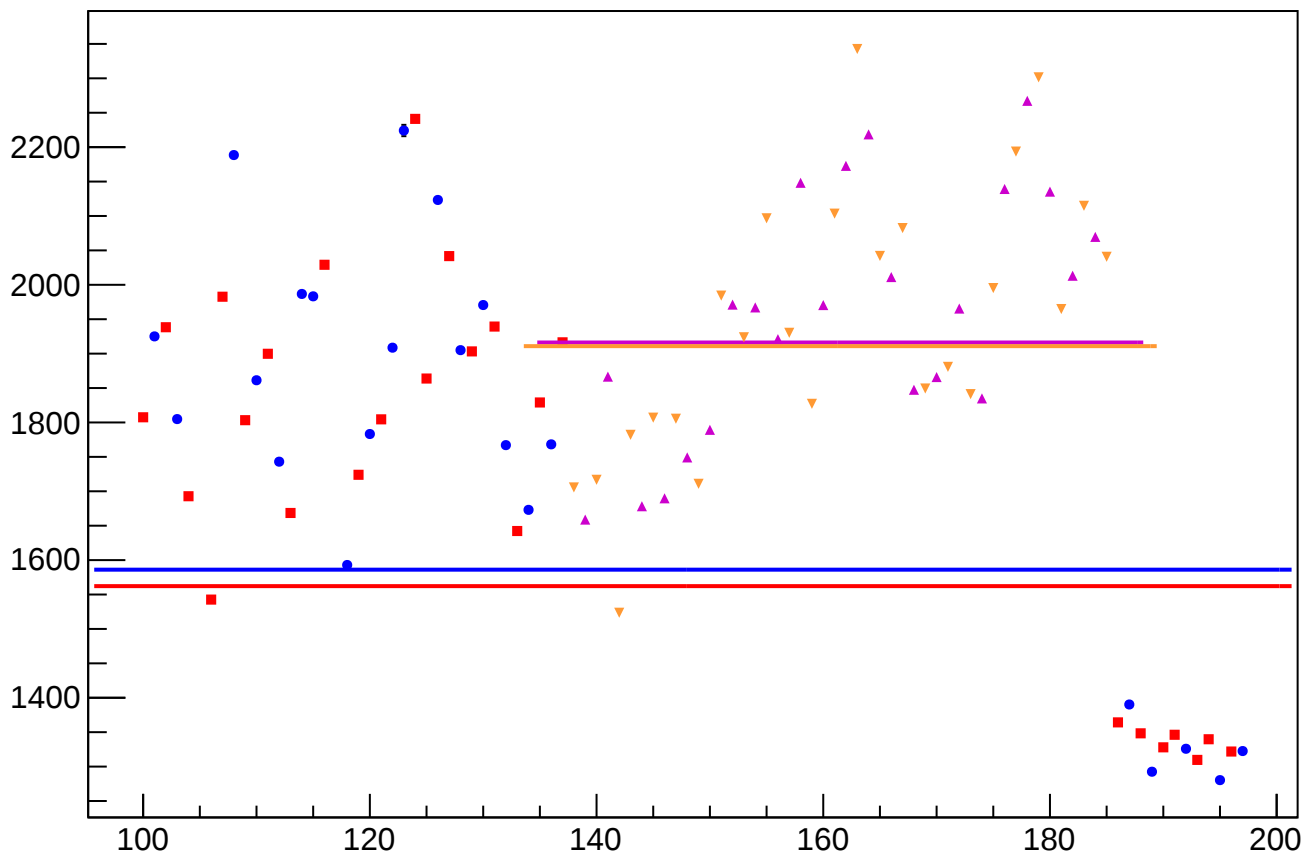
Right: 5.203 $\pm$ 0.347 χ^2/NDF : 705.7/47

In: 6.518 $\pm$ 0.344 χ^2/NDF :799.0/44

Out: 9.073 $\pm$ 0.324 χ^2/NDF :1044.6/50

All: 7.873 $\pm$ 0.236 χ^2/NDF : 1872.7/95

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1586.112 ± 0.364 χ^2/NDF : 609687.6/21

Left Out: 1910.859 ± 0.316 χ^2/NDF : 328970.6/24

Right Out: 1562.189 ± 0.333 χ^2/NDF : 610715.1/25

Left In: 1916.159 ± 0.327 χ^2/NDF : 274285.3/22

Left: 1913.419 ± 0.227 χ^2/NDF : 603391.5/47

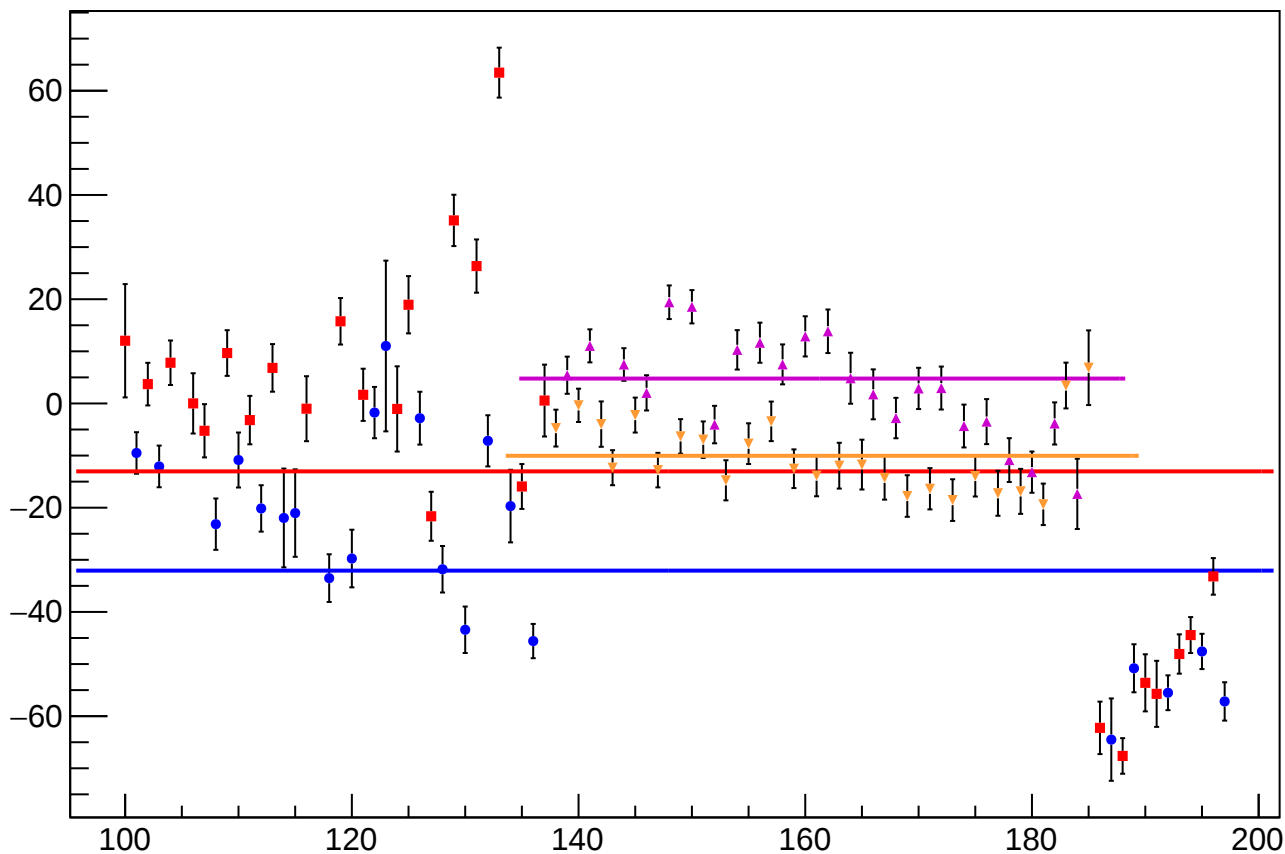
Right: 1573.062 ± 0.246 χ^2/NDF : 1222754.2/47

In: 1768.792 ± 0.243 χ^2/NDF : 1338091.1/44

Out: 1745.235 ± 0.229 χ^2/NDF : 1516668.7/50

All: 1756.304 ± 0.167 χ^2/NDF : 2859722.2/95

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -32.075 ± 0.994 $\chi^2/\text{NDF}: 367.5/21$

Left Out: -10.042 ± 0.776 $\chi^2/\text{NDF}: 67.1/24$

Right Out: -13.032 ± 0.927 $\chi^2/\text{NDF}: 1265.3/25$

Left In: 4.774 ± 0.800 $\chi^2/\text{NDF}: 128.5/22$

Left: -2.861 ± 0.557 $\chi^2/\text{NDF}: 372.2/47$

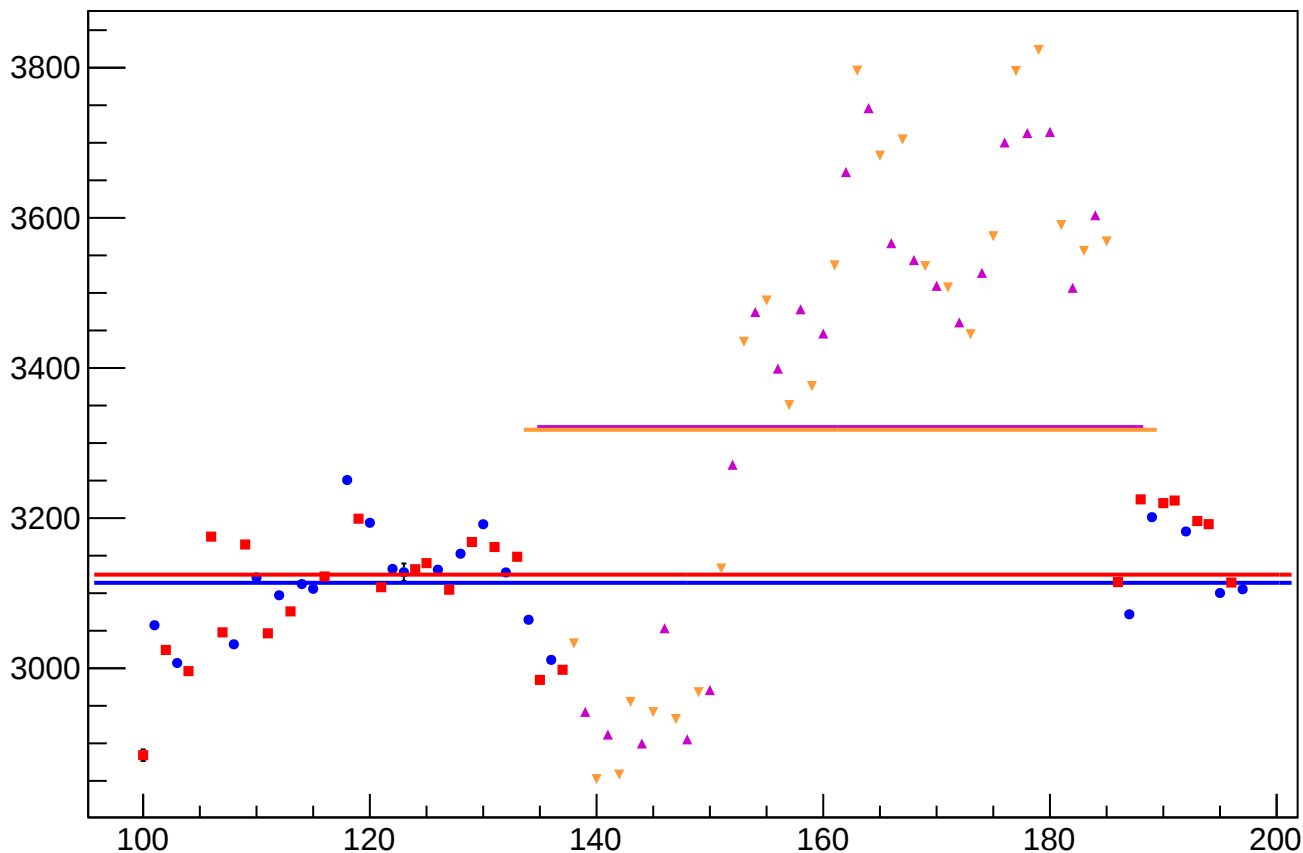
Right: -21.888 ± 0.678 $\chi^2/\text{NDF}: 1829.1/47$

In: -9.723 ± 0.623 $\chi^2/\text{NDF}: 1329.7/44$

Out: -11.275 ± 0.595 $\chi^2/\text{NDF}: 1338.5/50$

All: -10.535 ± 0.430 $\chi^2/\text{NDF}: 2671.4/95$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3113.849 $\pm$ 0.703 χ^2 /NDF: 9167.6/21

Left Out: 3317.699 $\pm$ 0.549 χ^2 /NDF:336877.2/24

Right Out: 3124.721 $\pm$ 0.655 χ^2 /NDF: 13625.8/25

Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF:284334.2/22

Left: 3319.432 $\pm$ 0.394 χ^2 /NDF: 621232.0/47

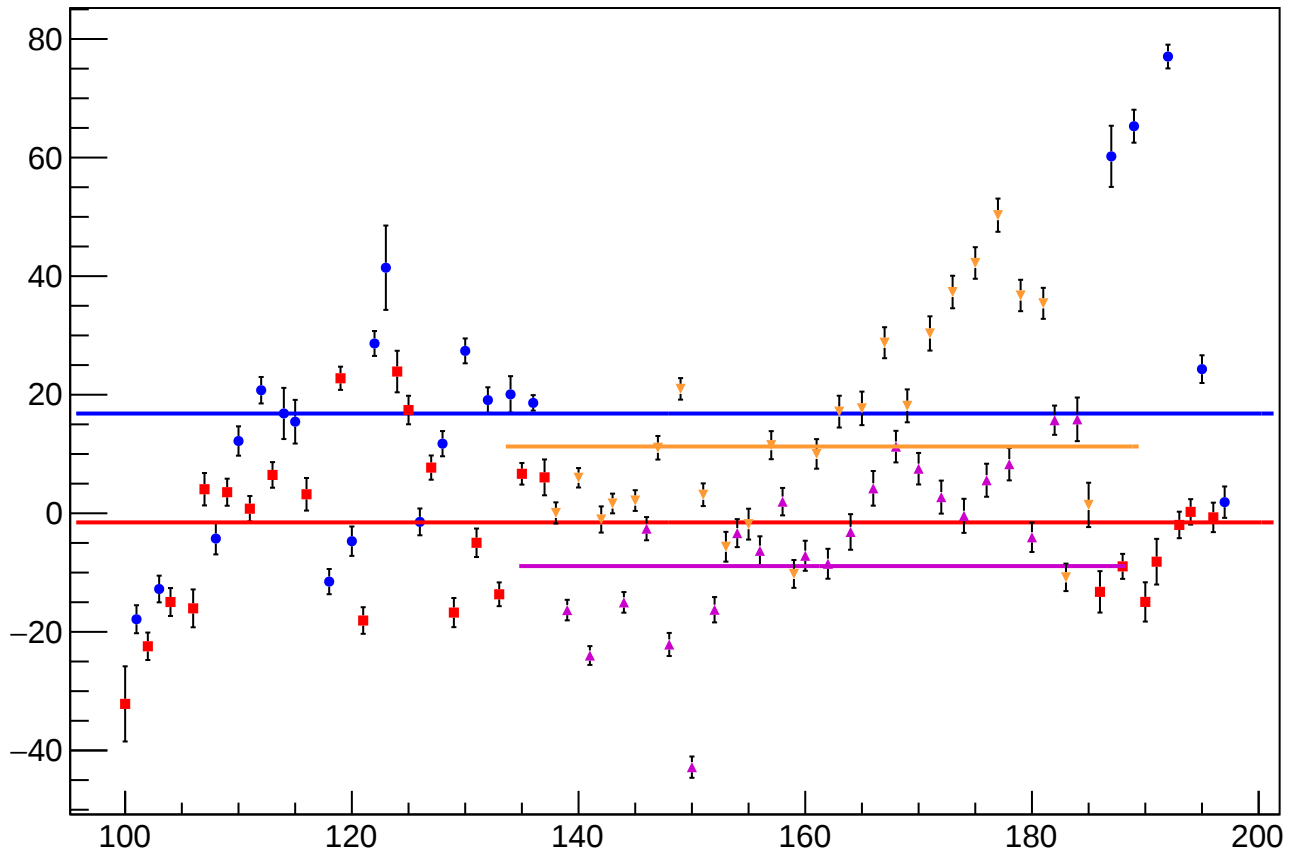
Right: 3119.665 $\pm$ 0.479 χ^2 /NDF: 22921.4/47

In: 3239.672 $\pm$ 0.441 χ^2 /NDF:346335.0/44

Out: 3238.124 $\pm$ 0.421 χ^2 /NDF:401460.7/50

All: 3238.862 $\pm$ 0.304 χ^2 /NDF: 747802.1/95

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 16.827 $\pm$ 0.505 χ^2 /NDF: 2175.8/21

Left Out: 11.268 $\pm$ 0.454 χ^2 /NDF:1141.8/24

Right Out: -1.535 $\pm$ 0.478 χ^2 /NDF: 676.4/25

Left In: -8.905 $\pm$ 0.478 χ^2 /NDF:936.3/22

Left: 1.682 $\pm$ 0.329 χ^2 /NDF: 3014.7/47

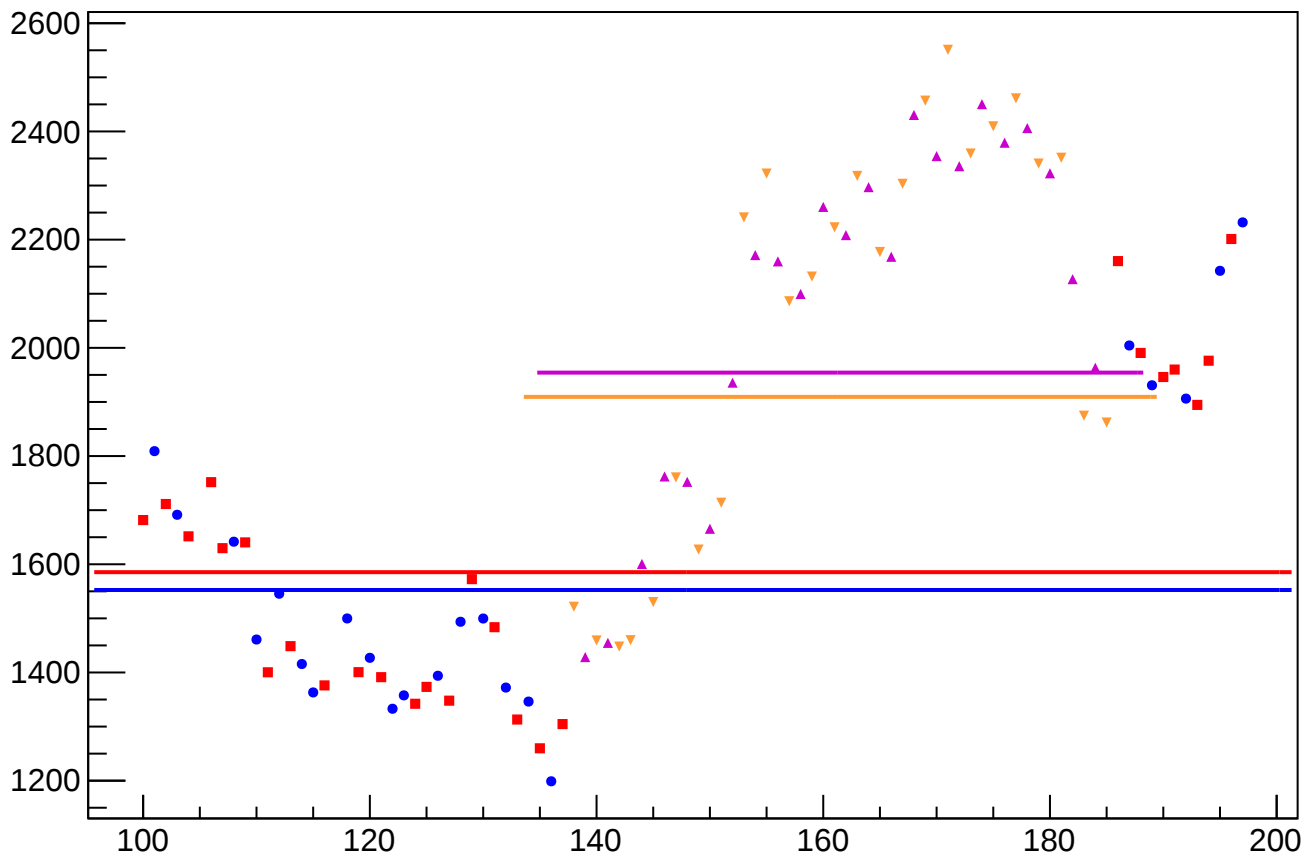
Right: 7.145 $\pm$ 0.347 χ^2 /NDF: 3549.9/47

In: 3.249 $\pm$ 0.347 χ^2 /NDF:4483.5/44

Out: 5.190 $\pm$ 0.329 χ^2 /NDF:2195.1/50

All: 4.270 $\pm$ 0.239 χ^2 /NDF: 6695.1/95

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1552.444+/-0.357 χ^2/NDF : 627455.0/21

Left Out: 1909.387+/-0.321 χ^2/NDF :1398498.0/24

Right Out: 1585.394+/-0.338 χ^2/NDF : 654458.2/25

Left In: 1954.236+/-0.338 χ^2/NDF :1044826.7/22

Left: 1930.697+/-0.233 χ^2/NDF : 2452584.2/47

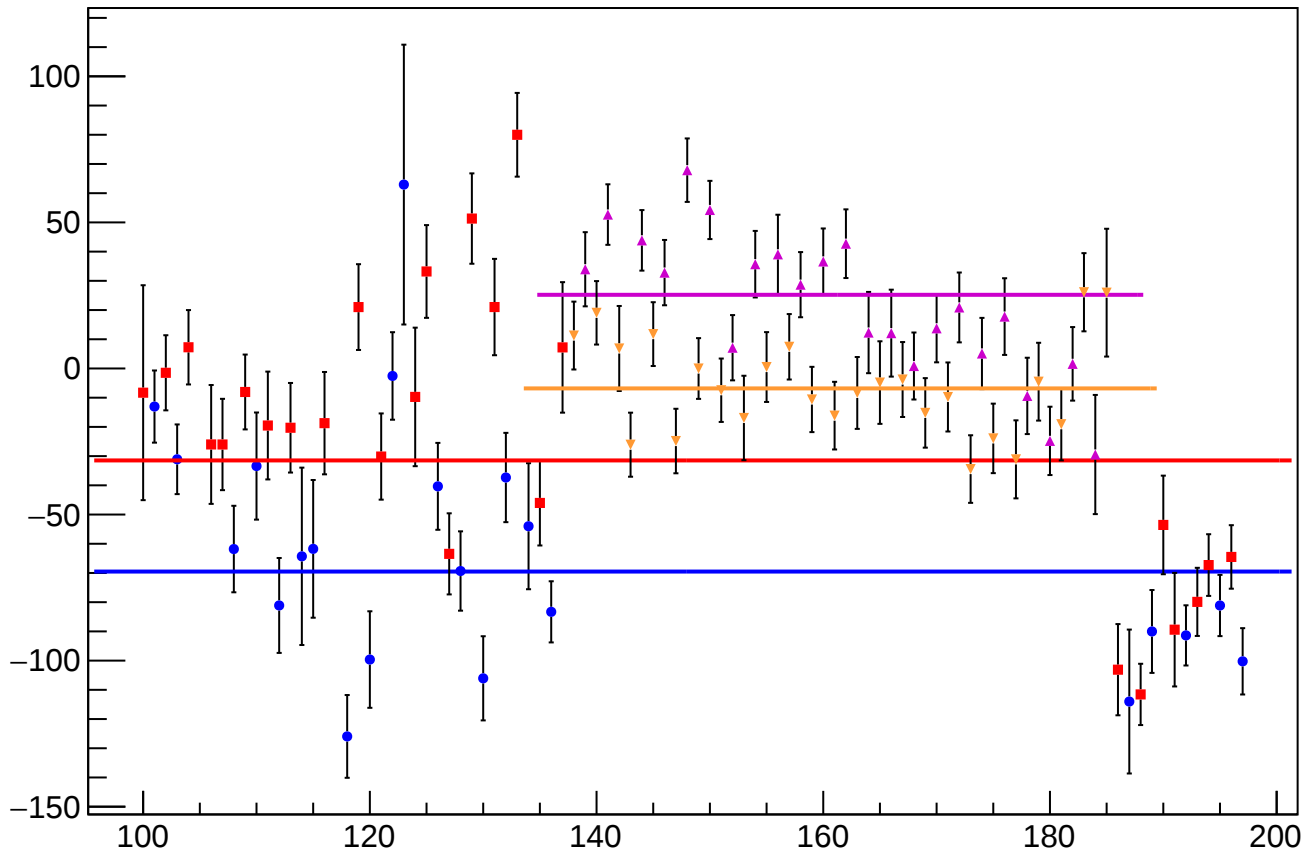
Right: 1569.817+/-0.245 χ^2/NDF : 1286407.1/47

In: 1764.465+/-0.245 χ^2/NDF :2341053.5/44

Out: 1755.580+/-0.233 χ^2/NDF :2535721.3/50

All: 1759.792+/-0.169 χ^2/NDF : 4877464.9/95

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -69.515 $\pm$ 3.092 χ^2/NDF : 118.3/21

Left Out: -6.825 $\pm$ 2.423 χ^2/NDF : 42.3/24

Right Out: -31.477 $\pm$ 2.890 χ^2/NDF : 286.9/25

Left In: 25.215 $\pm$ 2.487 χ^2/NDF : 89.3/22

Left: 8.777 $\pm$ 1.735 χ^2/NDF : 216.8/47

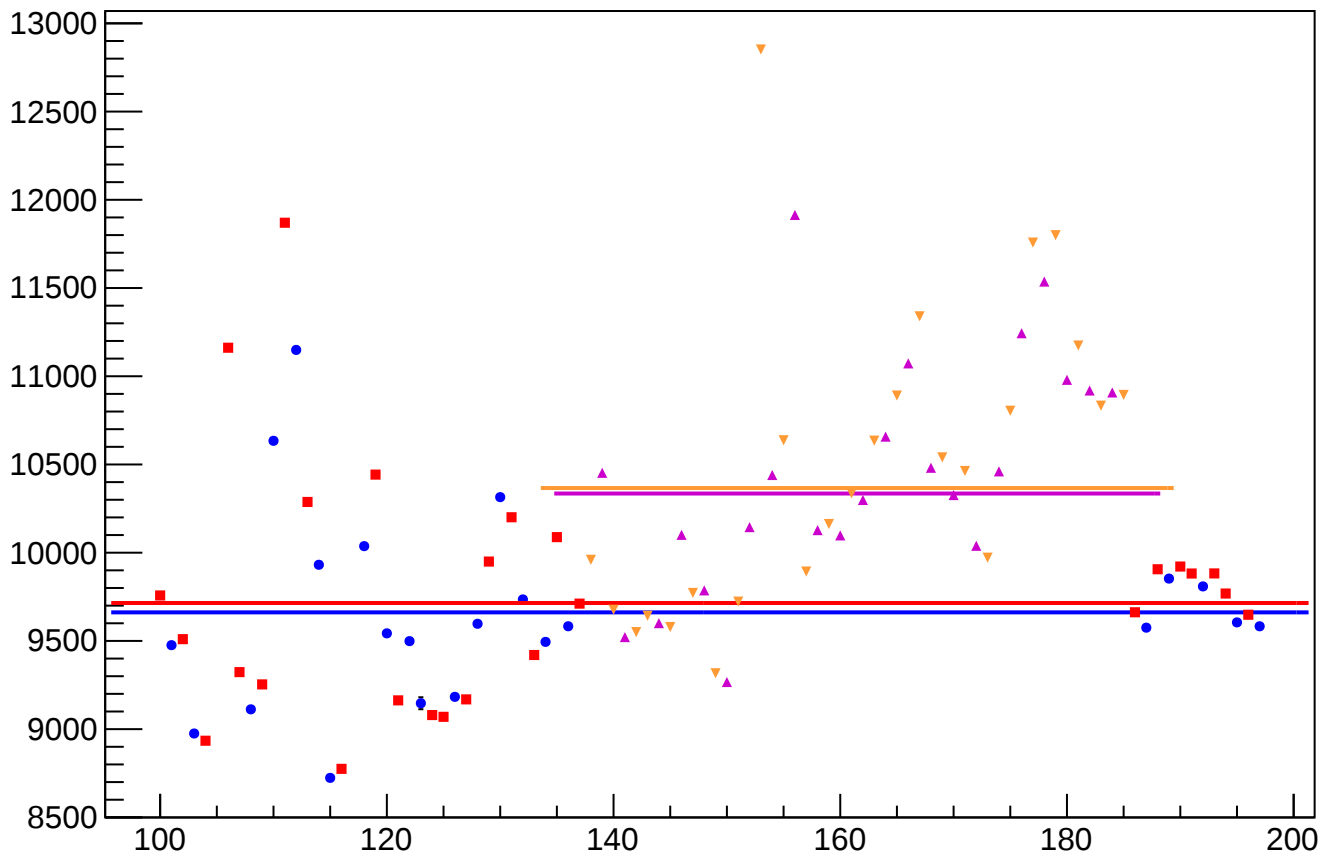
Right: -49.207 $\pm$ 2.111 χ^2/NDF : 486.0/47

In: -11.982 $\pm$ 1.938 χ^2/NDF : 777.5/44

Out: -17.000 $\pm$ 1.856 χ^2/NDF : 372.0/50

All: -14.599 $\pm$ 1.341 χ^2/NDF : 1152.9/95

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9661.805 $\pm$ 2.187 χ^2/NDF : 44981.0/21

Left Out: 10366.534 $\pm$ 1.713 χ^2/NDF : 211402.8/24

Right Out: 9714.972 $\pm$ 2.043 χ^2/NDF : 79390.9/25

Left In: 10335.399 $\pm$ 1.758 χ^2/NDF : 127173.0/22

Left: 10351.373 $\pm$ 1.227 χ^2/NDF : 338736.7/47

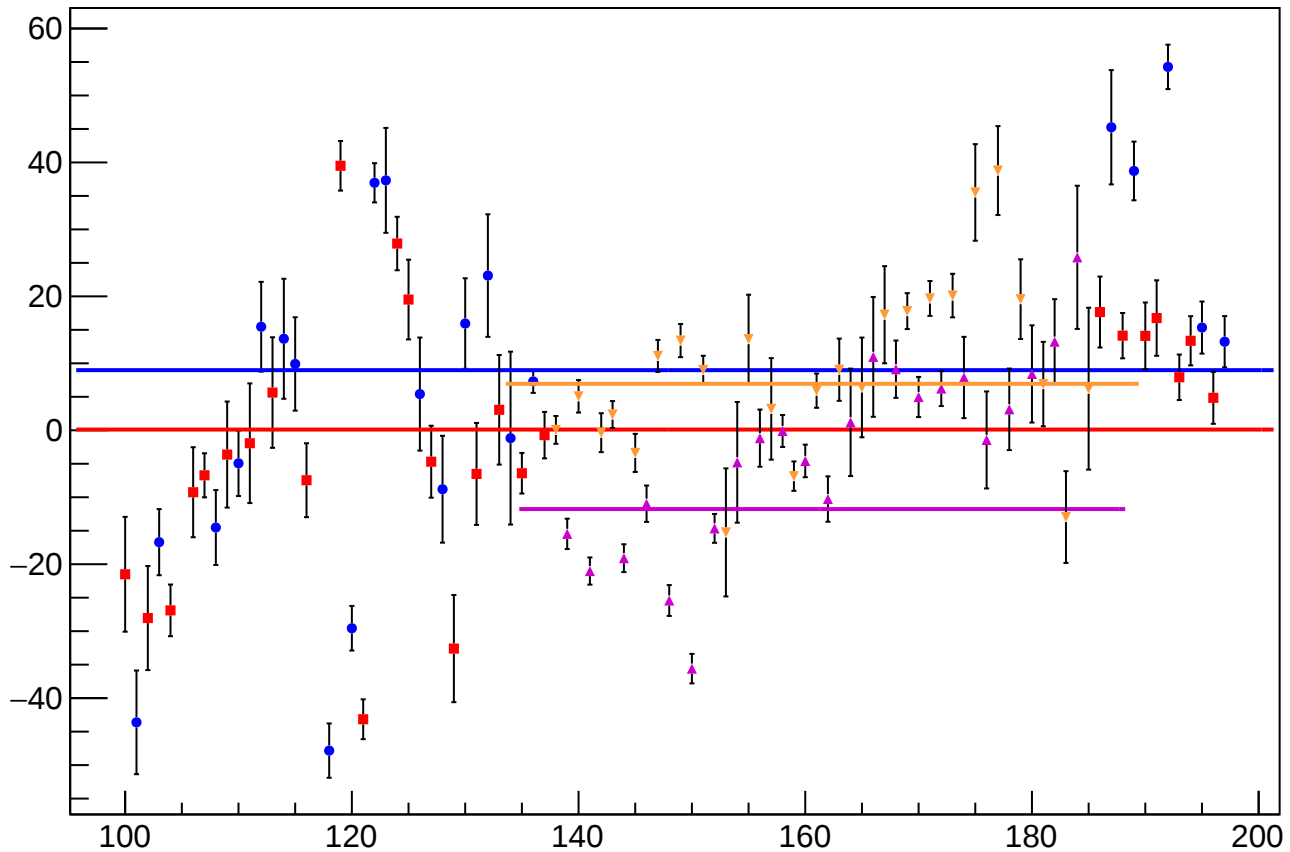
Right: 9690.189 $\pm$ 1.493 χ^2/NDF : 124687.5/47

In: 10070.899 $\pm$ 1.370 χ^2/NDF : 229783.3/44

Out: 10097.597 $\pm$ 1.313 χ^2/NDF : 350510.5/50

All: 10084.820 $\pm$ 0.948 χ^2/NDF : 580491.8/95

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 8.979 $\pm$ 0.925 χ^2/NDF : 799.2/21

Left Out: 6.939 $\pm$ 0.639 χ^2/NDF :203.8/24

Right Out: 0.107 $\pm$ 0.891 χ^2/NDF : 548.3/25

Left In: -11.766 $\pm$ 0.648 χ^2/NDF :395.1/22

Left: -2.274 $\pm$ 0.455 χ^2/NDF : 1021.3/47

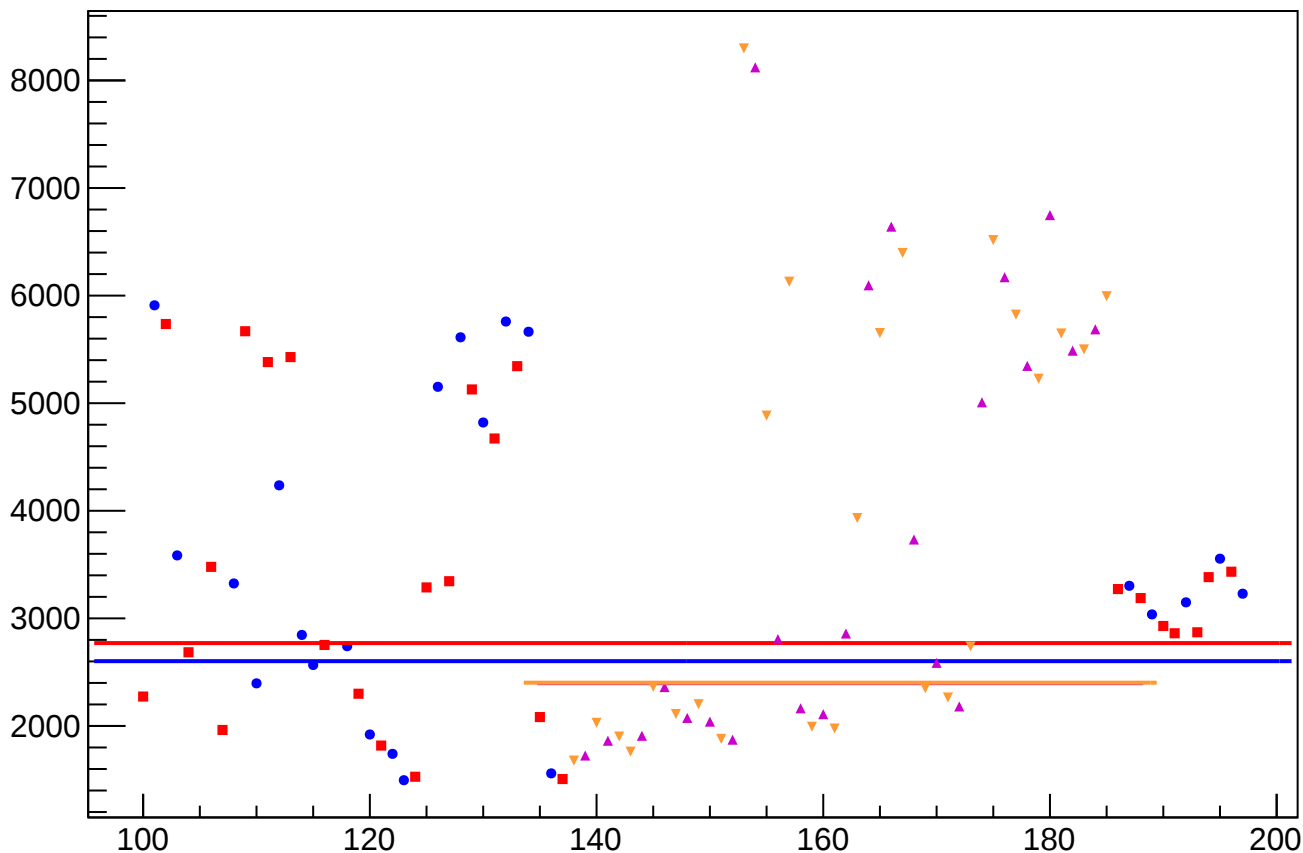
Right: 4.376 $\pm$ 0.642 χ^2/NDF : 1395.2/47

In: -4.930 $\pm$ 0.531 χ^2/NDF :1531.6/44

Out: 4.619 $\pm$ 0.519 χ^2/NDF :791.0/50

All: -0.048 $\pm$ 0.371 χ^2/NDF : 2488.0/95

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2602.289 ± 0.654 $\chi^2/\text{NDF}: 2930038.9/21$

Left Out: 2402.359 ± 0.452 $\chi^2/\text{NDF}: 6345982.8/24$

Right Out: 2770.385 ± 0.630 $\chi^2/\text{NDF}: 2588312.9/25$

Left In: 2397.701 ± 0.458 $\chi^2/\text{NDF}: 5398920.1/22$

Left: 2400.065 ± 0.322 $\chi^2/\text{NDF}: 11744955.3/47$

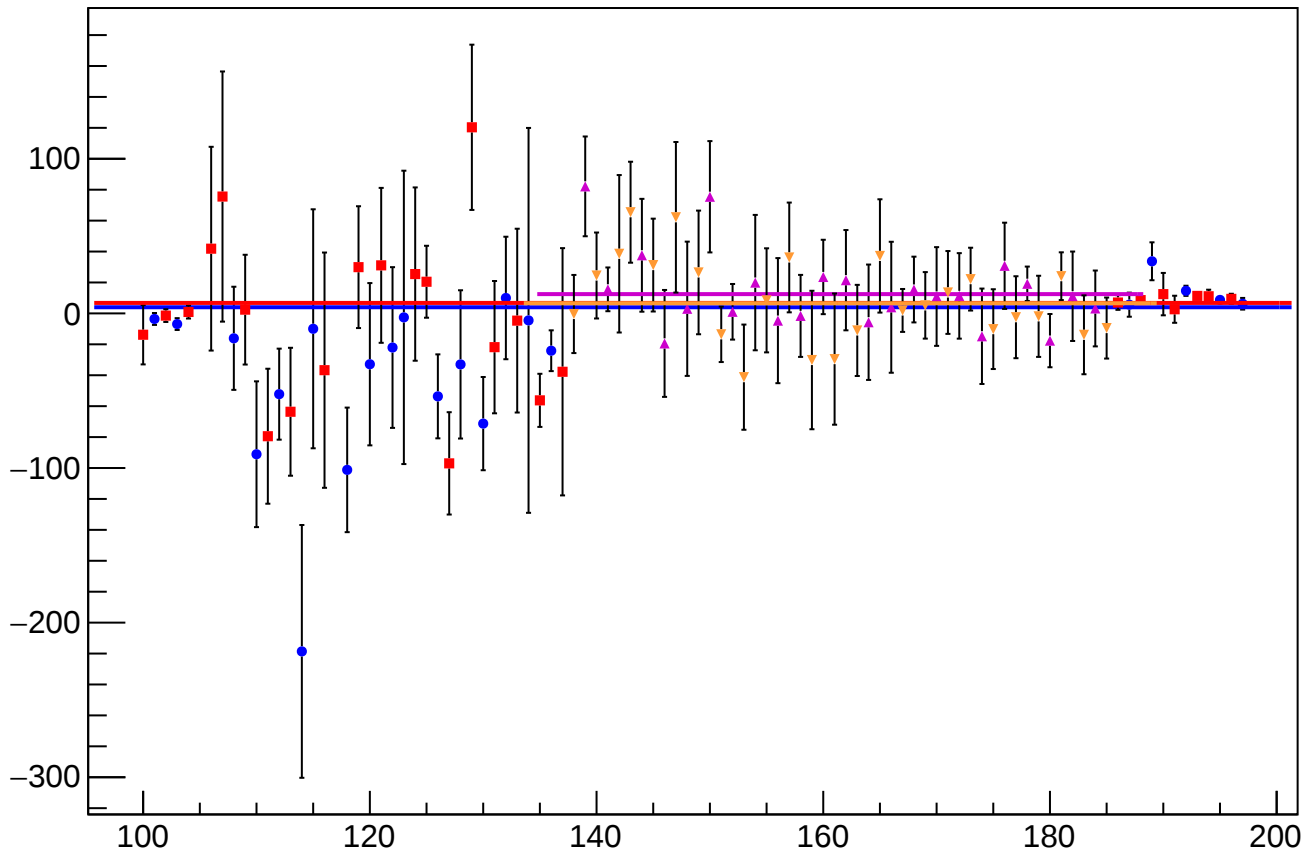
Right: 2689.502 ± 0.454 $\chi^2/\text{NDF}: 5552629.7/47$

In: 2465.114 ± 0.375 $\chi^2/\text{NDF}: 8394577.9/44$

Out: 2527.355 ± 0.367 $\chi^2/\text{NDF}: 9159792.8/50$

All: 2496.935 ± 0.262 $\chi^2/\text{NDF}: 17568425.1/95$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 3.975 ± 1.518 χ^2/NDF : 69.9/21

Left Out: 6.560 ± 5.077 χ^2/NDF : 16.8/24

Right Out: 6.776 ± 1.332 χ^2/NDF : 49.6/25

Left In: 12.469 ± 5.025 χ^2/NDF : 15.4/22

Left: 9.545 ± 3.572 χ^2/NDF : 32.8/47

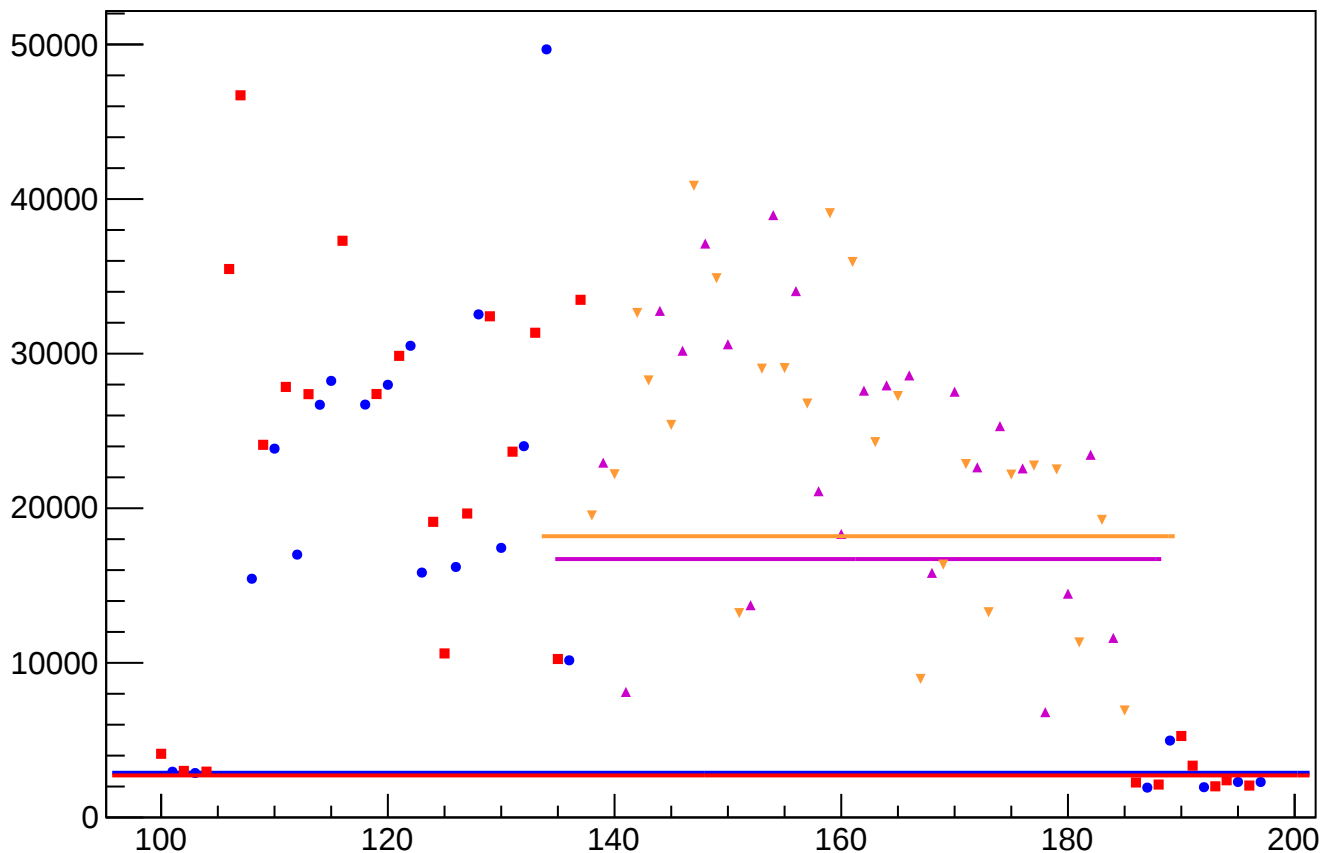
Right: 5.557 ± 1.001 χ^2/NDF : 121.4/47

In: 4.685 ± 1.453 χ^2/NDF : 88.0/44

Out: 6.762 ± 1.288 χ^2/NDF : 66.3/50

All: 5.848 ± 0.964 χ^2/NDF : 155.4/95

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2890.386 ± 1.073 $\chi^2/\text{NDF}: 6821806.1/21$

Left Out: 18190.387 ± 3.590 $\chi^2/\text{NDF}: 5261328.5/24$

Right Out: 2718.838 ± 0.942 $\chi^2/\text{NDF}: 8542056.5/25$

Left In: 16713.653 ± 3.553 $\chi^2/\text{NDF}: 6194178.8/22$

Left: 17444.397 ± 2.526 $\chi^2/\text{NDF}: 11540970.2/47$

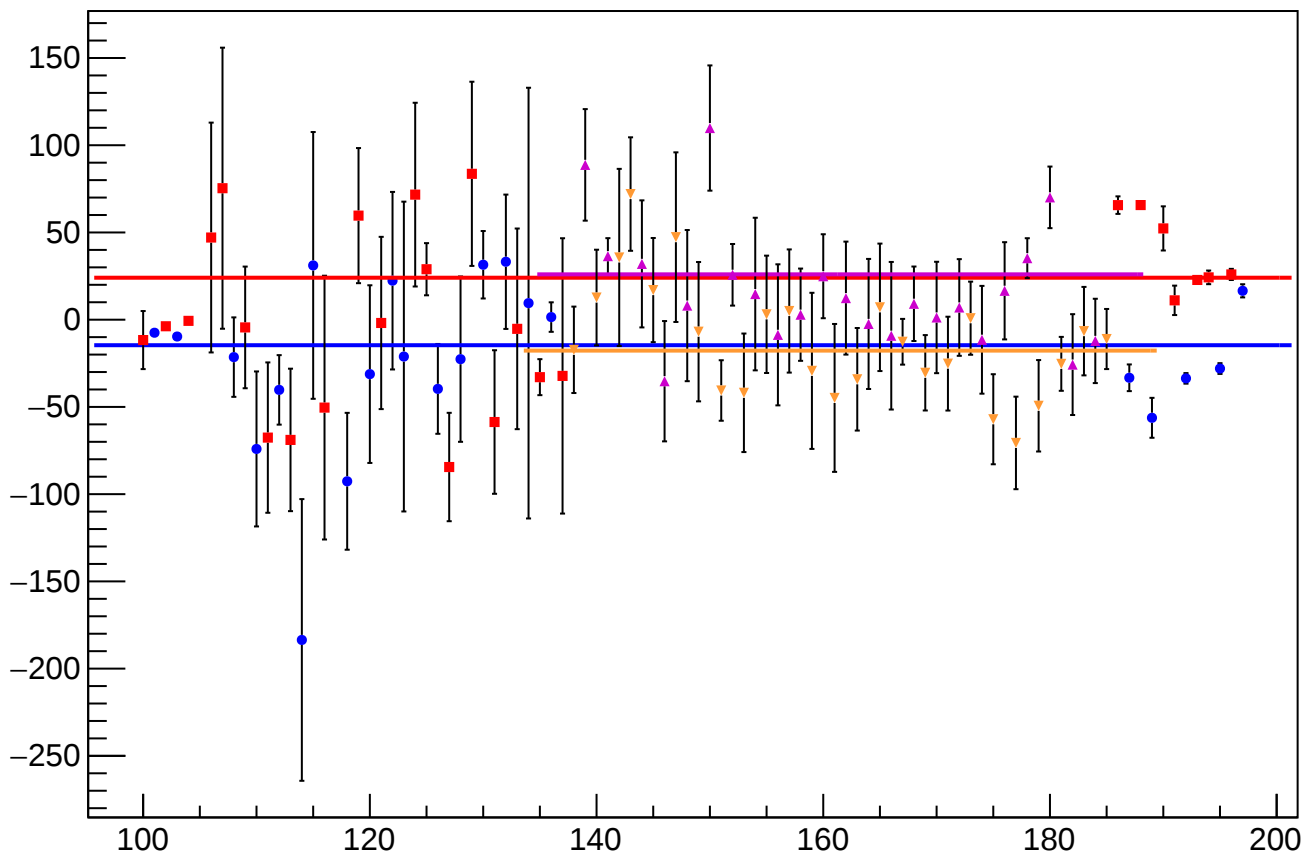
Right: 2793.467 ± 0.708 $\chi^2/\text{NDF}: 15378295.8/47$

In: 4046.065 ± 1.027 $\chi^2/\text{NDF}: 26884004.9/44$

Out: 3714.942 ± 0.911 $\chi^2/\text{NDF}: 31177707.4/50$

All: 3860.682 ± 0.682 $\chi^2/\text{NDF}: 58119861.1/95$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -14.626 ± 1.264 $\chi^2/\text{NDF}: 181.4/21$

Left Out: -17.717 ± 4.974 $\chi^2/\text{NDF}: 27.2/24$

Right Out: 24.061 ± 1.146 $\chi^2/\text{NDF}: 553.4/25$

Left In: 25.991 ± 4.789 $\chi^2/\text{NDF}: 32.6/22$

Left: 4.967 ± 3.450 $\chi^2/\text{NDF}: 99.8/47$

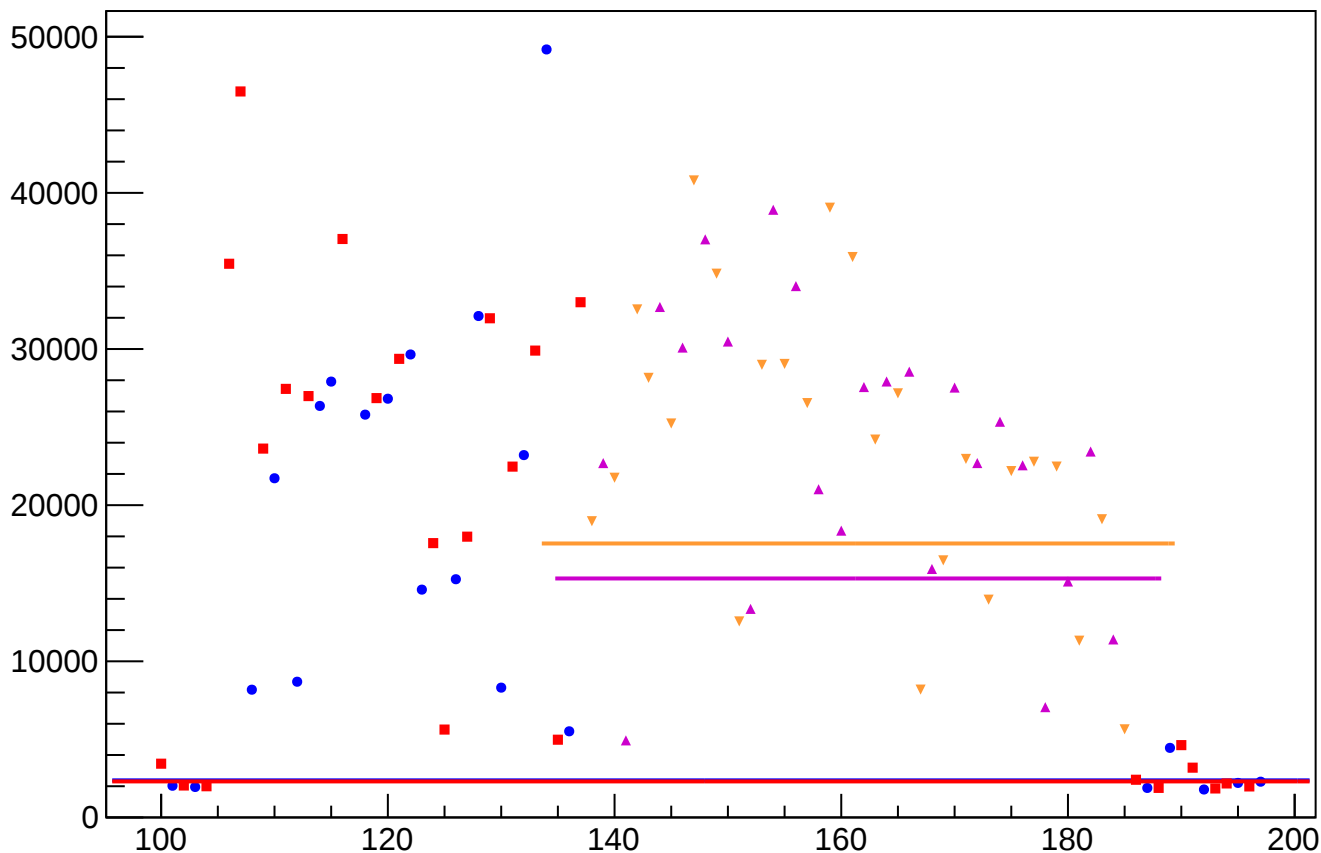
Right: 6.619 ± 0.849 $\chi^2/\text{NDF}: 1249.0/47$

In: -11.979 ± 1.222 $\chi^2/\text{NDF}: 281.3/44$

Out: 21.957 ± 1.116 $\chi^2/\text{NDF}: 647.5/50$

All: 6.524 ± 0.824 $\chi^2/\text{NDF}: 1349.1/95$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2375.623 +/- 0.894 χ^2/NDF : 5765516.9/21

Left Out: 17546.173 +/- 3.517 χ^2/NDF : 5902620.4/24

Right Out: 2308.518 +/- 0.810 χ^2/NDF : 8141714.6/25

Left In: 15305.311 +/- 3.386 χ^2/NDF : 7721177.0/22

Left: 16383.216 +/- 2.439 χ^2/NDF : 13834445.4/47

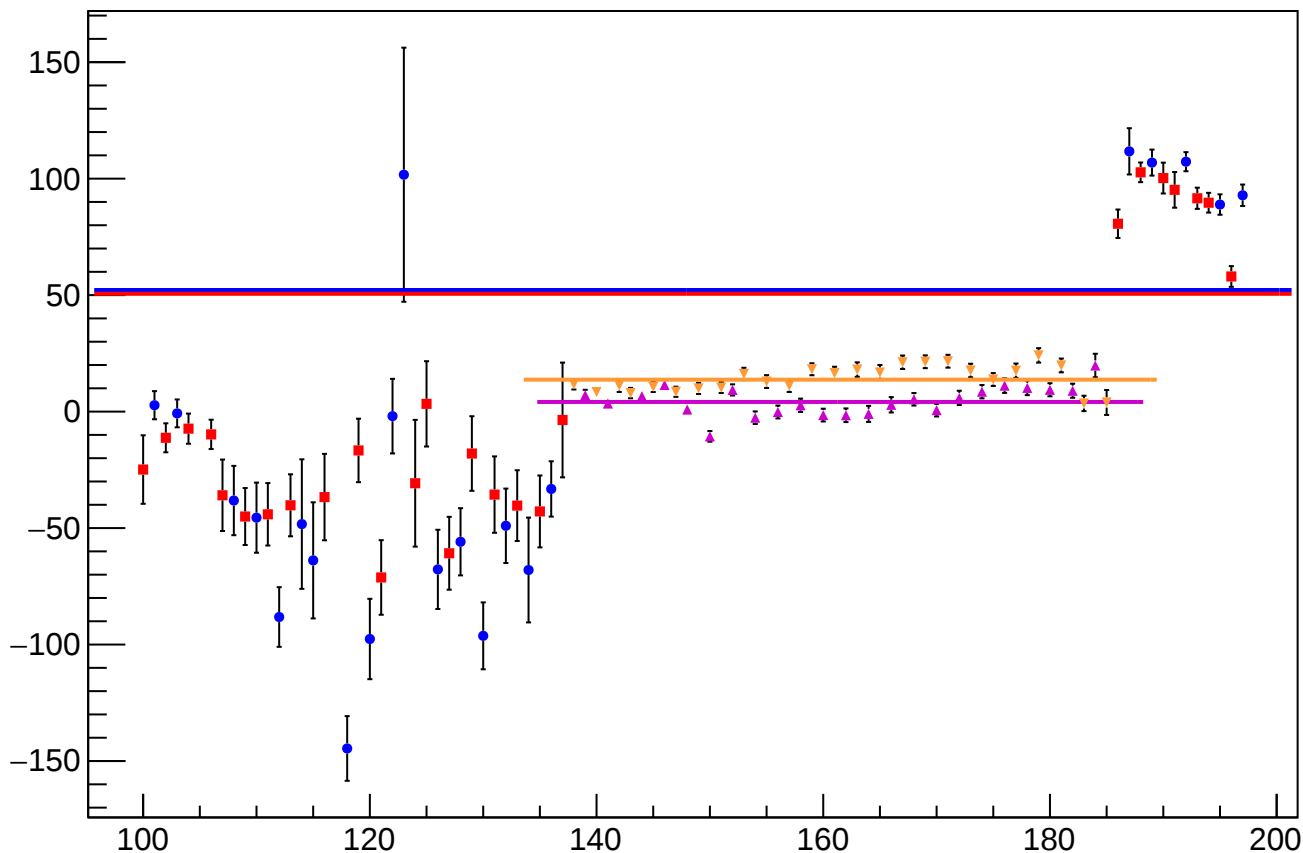
Right: 2338.774 +/- 0.600 χ^2/NDF : 13910325.8/47

In: 3218.015 +/- 0.864 χ^2/NDF : 27116168.8/44

Out: 3075.967 +/- 0.789 χ^2/NDF : 31866950.7/50

All: 3140.564 +/- 0.583 χ^2/NDF : 58997845.9/95

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 52.197 $\pm$ 1.787 χ^2 /NDF: 1462.2/21

Left Out: 13.710 $\pm$ 0.535 χ^2 /NDF:89.9/24

Right Out: 50.569 $\pm$ 1.548 χ^2 /NDF: 1216.3/25

Left In: 4.141 $\pm$ 0.555 χ^2 /NDF:111.7/22

Left: 9.097 $\pm$ 0.385 χ^2 /NDF: 355.6/47

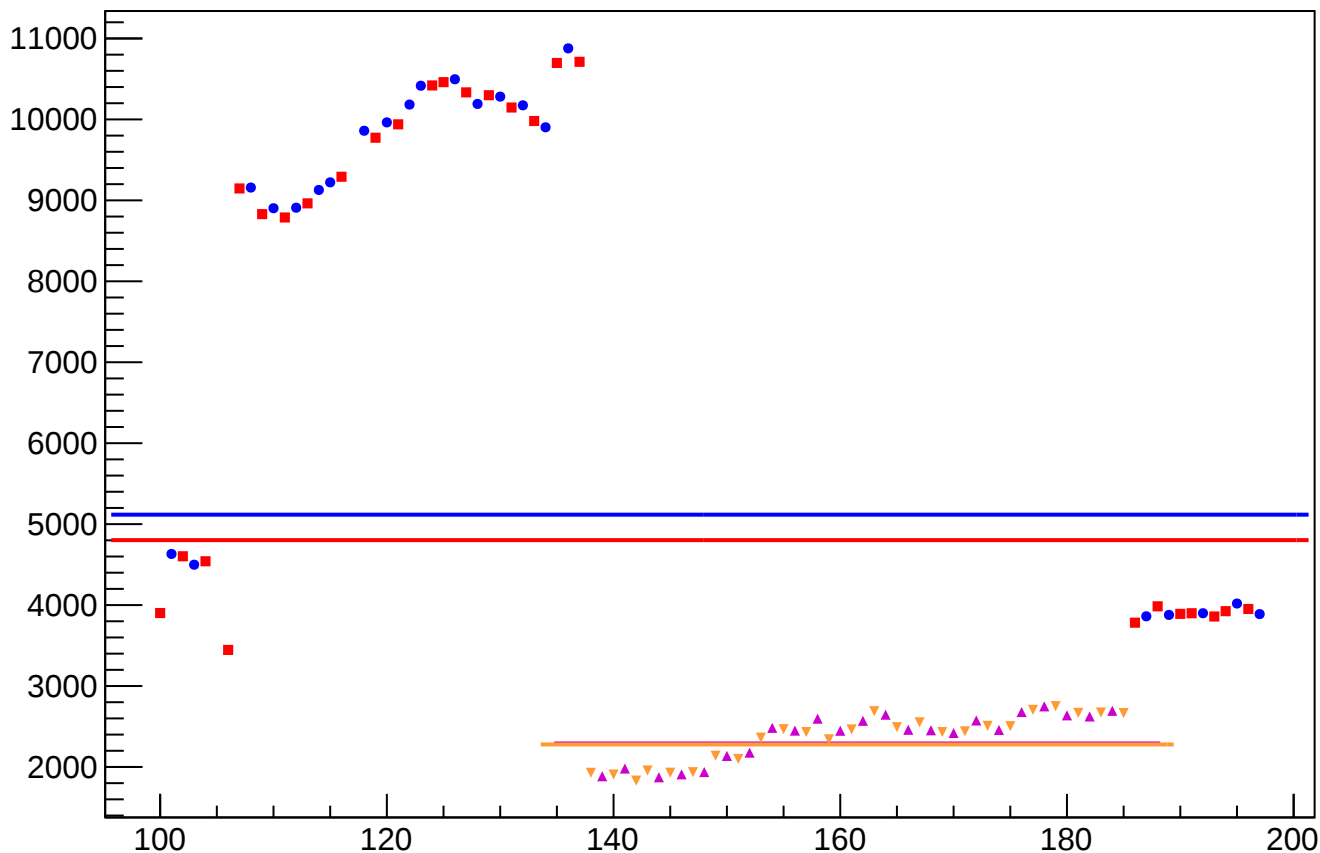
Right: 51.267 $\pm$ 1.170 χ^2 /NDF: 2679.0/47

In: 8.366 $\pm$ 0.530 χ^2 /NDF:2233.6/44

Out: 17.645 $\pm$ 0.506 χ^2 /NDF:1812.5/50

All: 13.220 $\pm$ 0.366 χ^2 /NDF: 4206.5/95

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 5116.888+/-1.263 χ^2/NDF : 3233446.9/21

Left Out: 2278.115+/-0.378 χ^2/NDF : 607109.4/24

Right Out: 4802.327+/-1.095 χ^2/NDF : 3500004.6/25

Left In: 2290.461+/-0.392 χ^2/NDF : 590272.1/22

Left: 2284.067+/-0.272 χ^2/NDF : 1197894.4/47

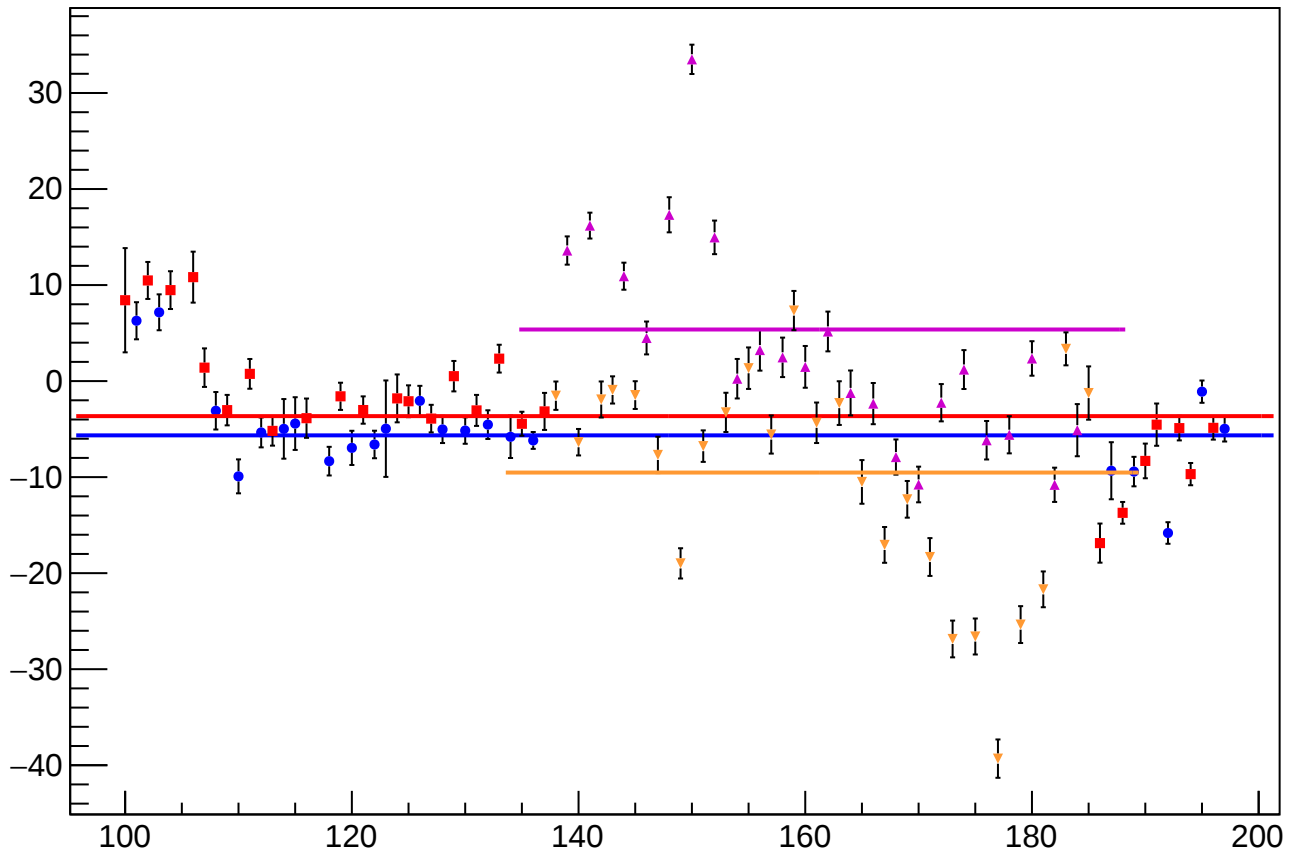
Right: 4937.214+/-0.827 χ^2/NDF : 6768855.5/47

In: 2538.986+/-0.375 χ^2/NDF : 8387911.1/44

Out: 2547.612+/-0.358 χ^2/NDF : 8856046.7/50

All: 2543.499+/-0.259 χ^2/NDF : 17244235.1/95

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -5.652 ± 0.331 χ^2/NDF : 208.9/21

Left Out: -9.524 ± 0.365 χ^2/NDF : 884.1/24

Right Out: -3.648 ± 0.314 χ^2/NDF : 334.0/25

Left In: 5.372 ± 0.383 χ^2/NDF : 869.8/22

Left: -2.437 ± 0.264 χ^2/NDF : 2547.3/47

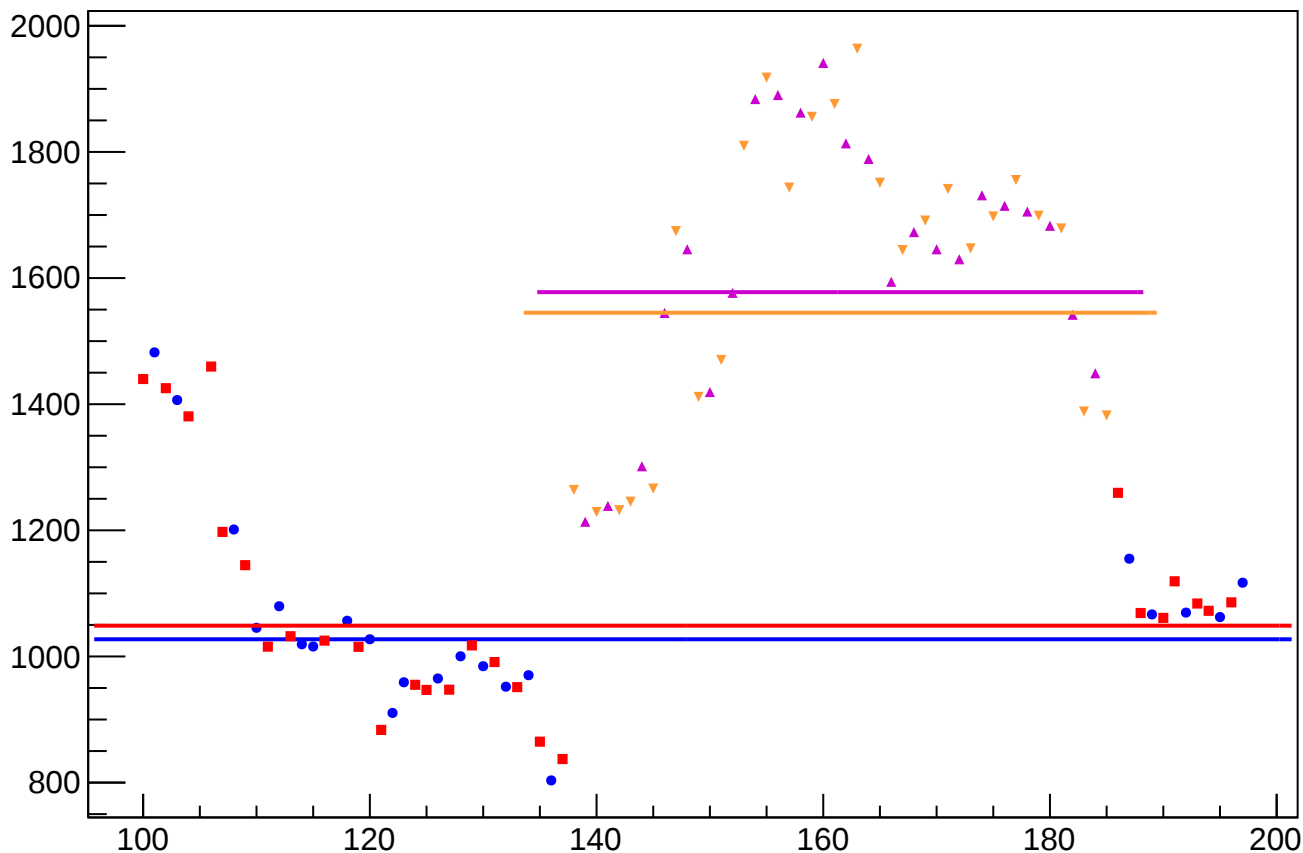
Right: -4.595 ± 0.228 χ^2/NDF : 562.2/47

In: -0.931 ± 0.251 χ^2/NDF : 1552.7/44

Out: -6.147 ± 0.238 χ^2/NDF : 1367.3/50

All: -3.675 ± 0.173 χ^2/NDF : 3147.9/95

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1027.236 $\pm$ 0.234 χ^2 /NDF: 387092.9/21

Left Out: 1545.053 $\pm$ 0.258 χ^2 /NDF: 842722.3/24

Right Out: 1048.828 $\pm$ 0.222 χ^2 /NDF: 367959.1/25

Left In: 1577.685 $\pm$ 0.271 χ^2 /NDF: 625406.2/22

Left: 1560.578 $\pm$ 0.187 χ^2 /NDF: 1475743.3/47

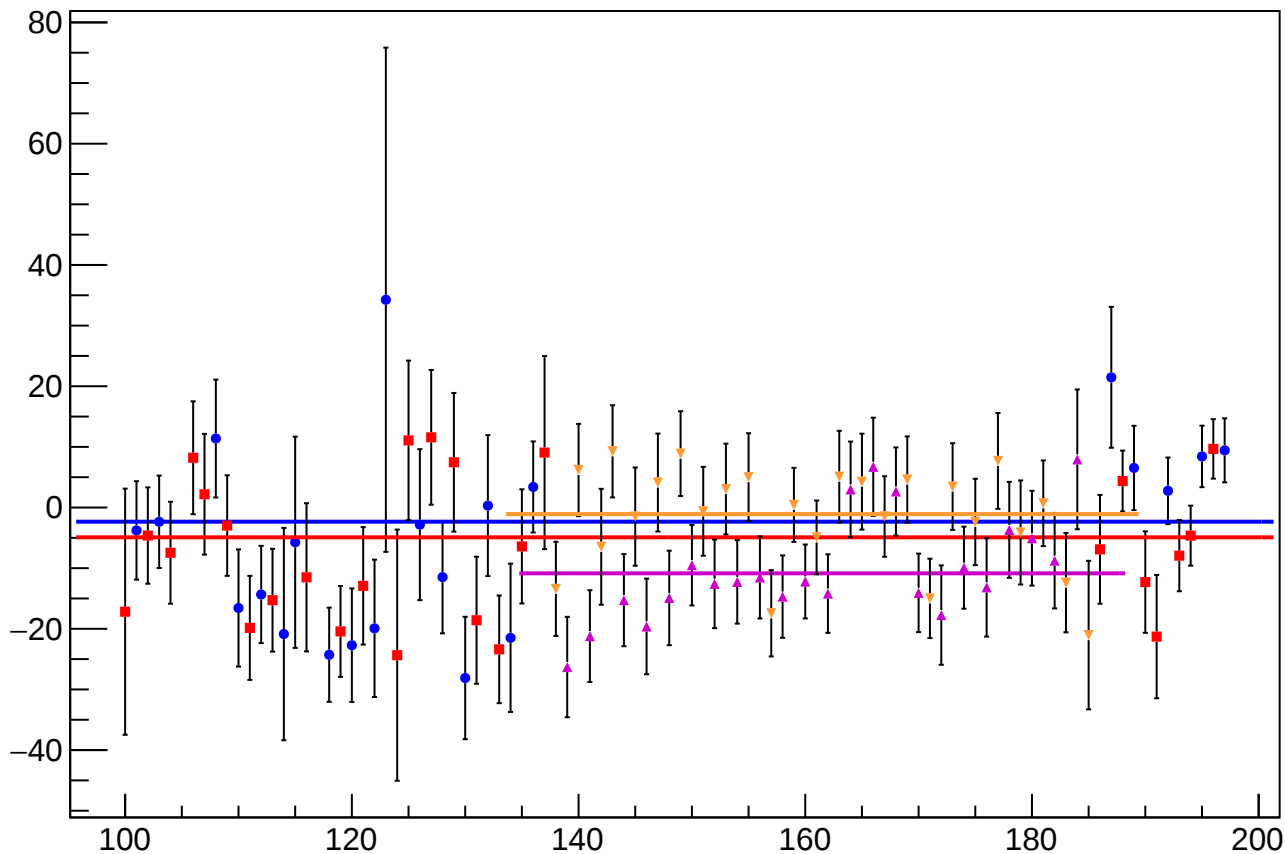
Right: 1038.620 $\pm$ 0.161 χ^2 /NDF: 759529.7/47

In: 1262.933 $\pm$ 0.177 χ^2 /NDF: 3375912.4/44

Out: 1259.841 $\pm$ 0.168 χ^2 /NDF: 3337968.6/50

All: 1261.307 $\pm$ 0.122 χ^2 /NDF: 6714041.3/95

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -2.337 $\pm$ 1.802 χ^2/NDF : 50.2/21

Left Out: -1.083 $\pm$ 1.487 χ^2/NDF : 27.5/24

Right Out: -4.913 $\pm$ 1.623 χ^2/NDF : 41.3/25

Left In: -10.851 $\pm$ 1.542 χ^2/NDF : 24.4/22

Left: -5.792 $\pm$ 1.070 χ^2/NDF : 72.7/47

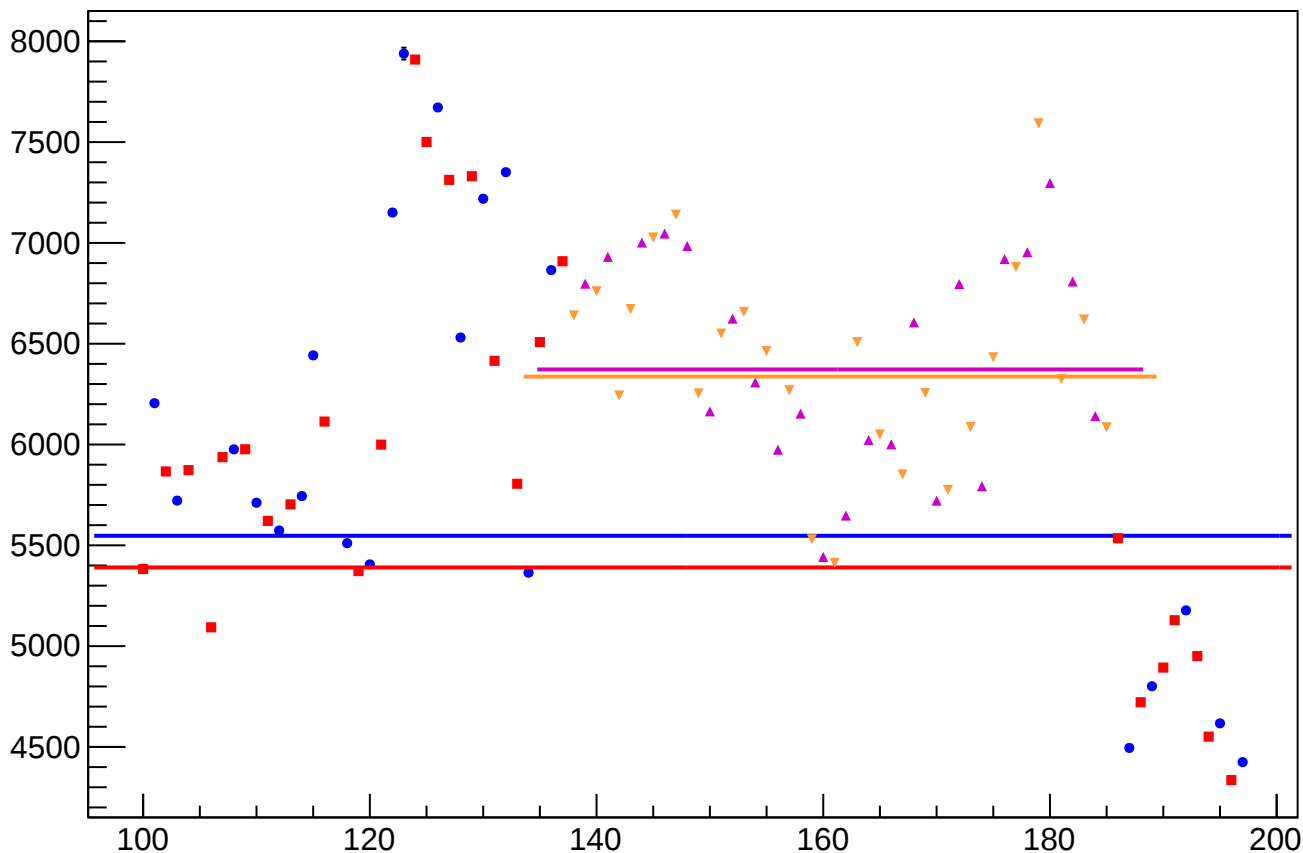
Right: -3.759 $\pm$ 1.206 χ^2/NDF : 92.7/47

In: -7.252 $\pm$ 1.171 χ^2/NDF : 87.5/44

Out: -2.832 $\pm$ 1.096 χ^2/NDF : 71.9/50

All: -4.896 $\pm$ 0.800 χ^2/NDF : 166.9/95

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5547.305 $\pm$ 1.274 χ^2 /NDF: 523600.2/21

Left Out: 6336.876 $\pm$ 1.052 χ^2 /NDF: 222912.5/24

Right Out: 5390.250 $\pm$ 1.147 χ^2 /NDF: 525115.4/25

Left In: 6372.349 $\pm$ 1.090 χ^2 /NDF: 247257.0/22

Left: 6353.974 $\pm$ 0.757 χ^2 /NDF: 470718.0/47

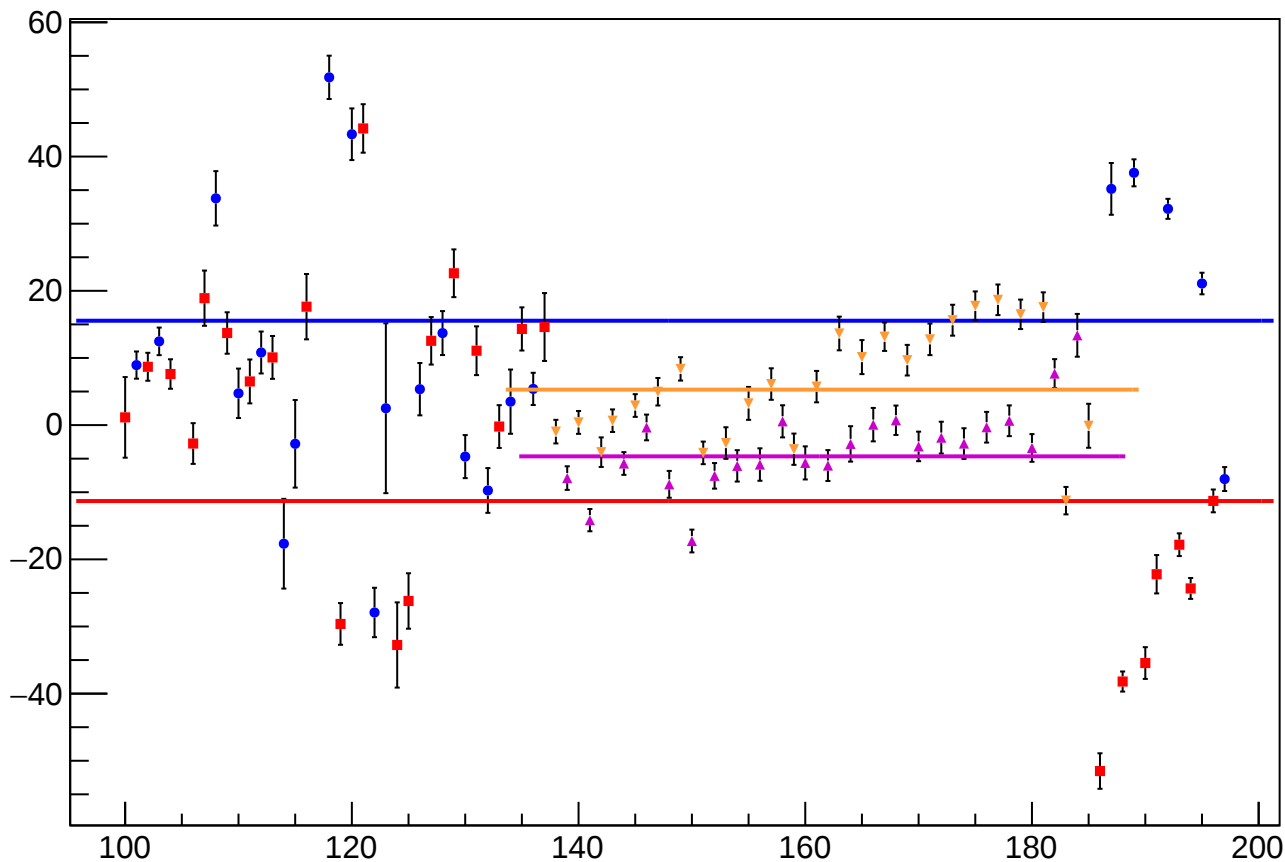
Right: 5460.597 $\pm$ 0.853 χ^2 /NDF: 1057106.5/47

In: 6023.603 $\pm$ 0.828 χ^2 /NDF: 1012989.7/44

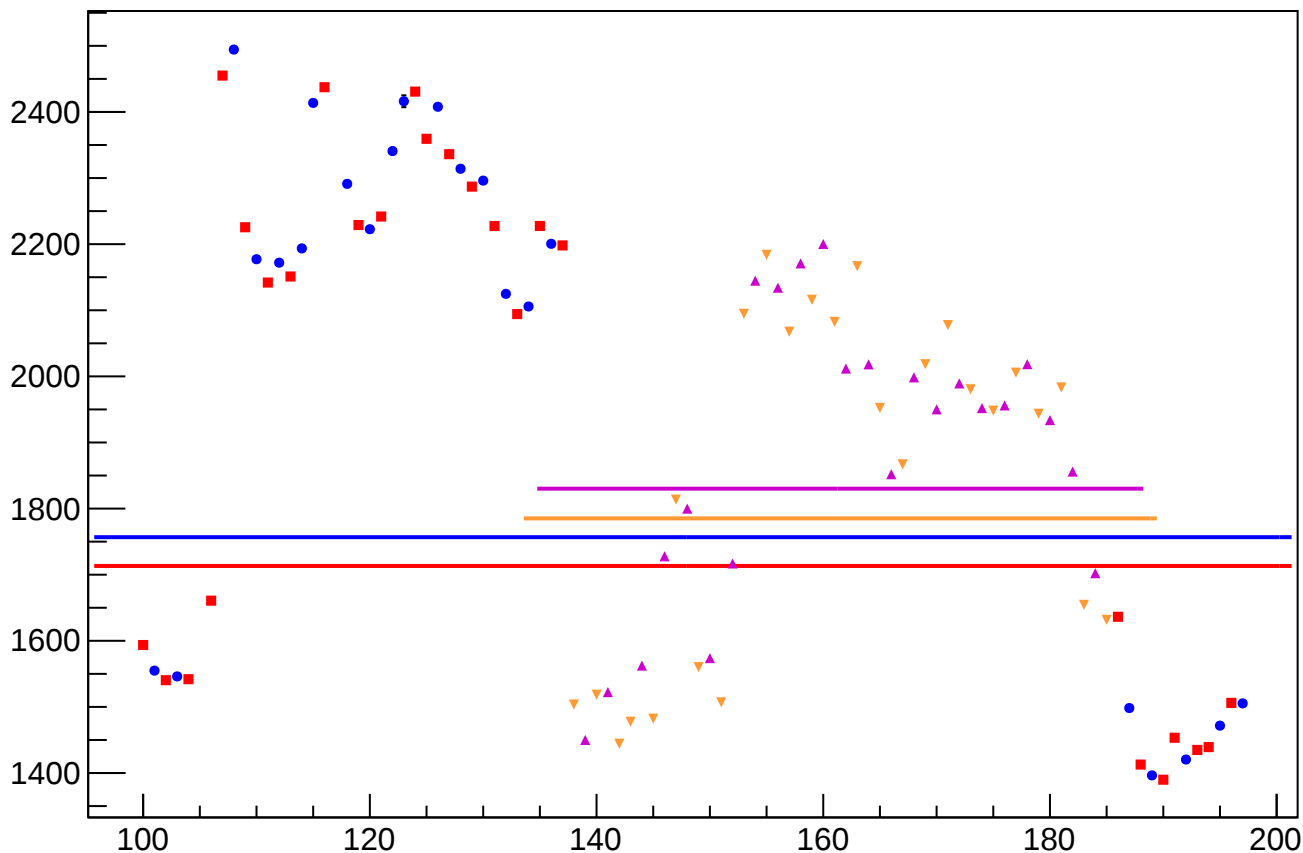
Out: 5904.768 $\pm$ 0.775 χ^2 /NDF: 1117932.3/50

All: 5960.263 $\pm$ 0.566 χ^2 /NDF: 2141894.2/95

diff_bpm0l05Y_mean vs Slug, Sign Corrected



diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1756.772 $\pm$ 0.406 χ^2/NDF : 888596.3/21

Left Out: 1785.179 $\pm$ 0.297 χ^2/NDF : 750628.1/24

Right Out: 1713.236 $\pm$ 0.367 χ^2/NDF : 970722.6/25

Left In: 1830.160 $\pm$ 0.313 χ^2/NDF : 508391.9/22

Left: 1806.491 $\pm$ 0.216 χ^2/NDF : 1269853.4/47

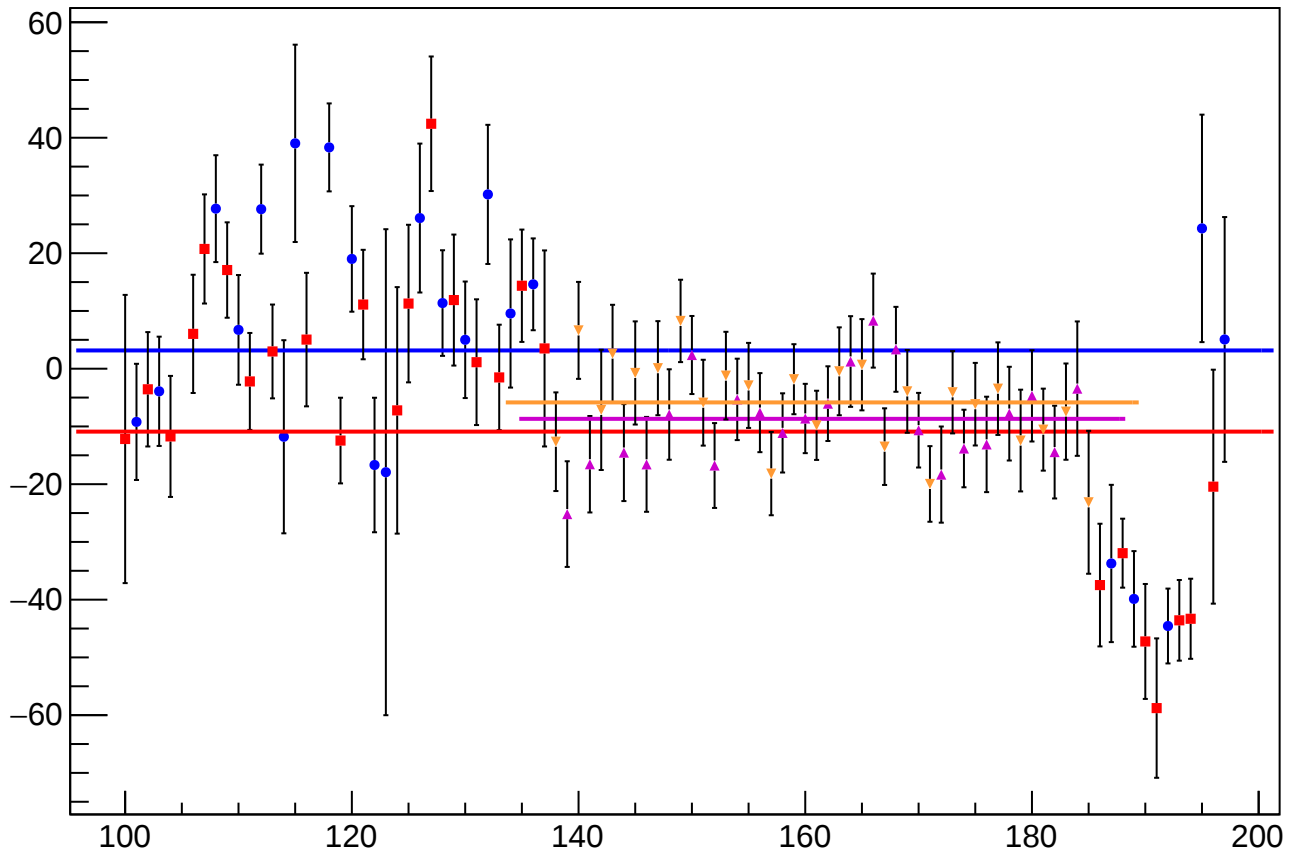
Right: 1732.846 $\pm$ 0.272 χ^2/NDF : 1865644.5/47

In: 1802.732 $\pm$ 0.248 χ^2/NDF : 1417471.1/44

Out: 1756.689 $\pm$ 0.231 χ^2/NDF : 1744513.8/50

All: 1778.089 $\pm$ 0.169 χ^2/NDF : 3180420.3/95

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 3.160 ± 2.183 $\chi^2/\text{NDF}: 153.1/21$

Left Out: -5.840 ± 1.518 $\chi^2/\text{NDF}: 23.3/24$

Right Out: -10.897 ± 1.899 $\chi^2/\text{NDF}: 166.4/25$

Left In: -8.683 ± 1.571 $\chi^2/\text{NDF}: 21.9/22$

Left: -7.214 ± 1.092 $\chi^2/\text{NDF}: 47.0/47$

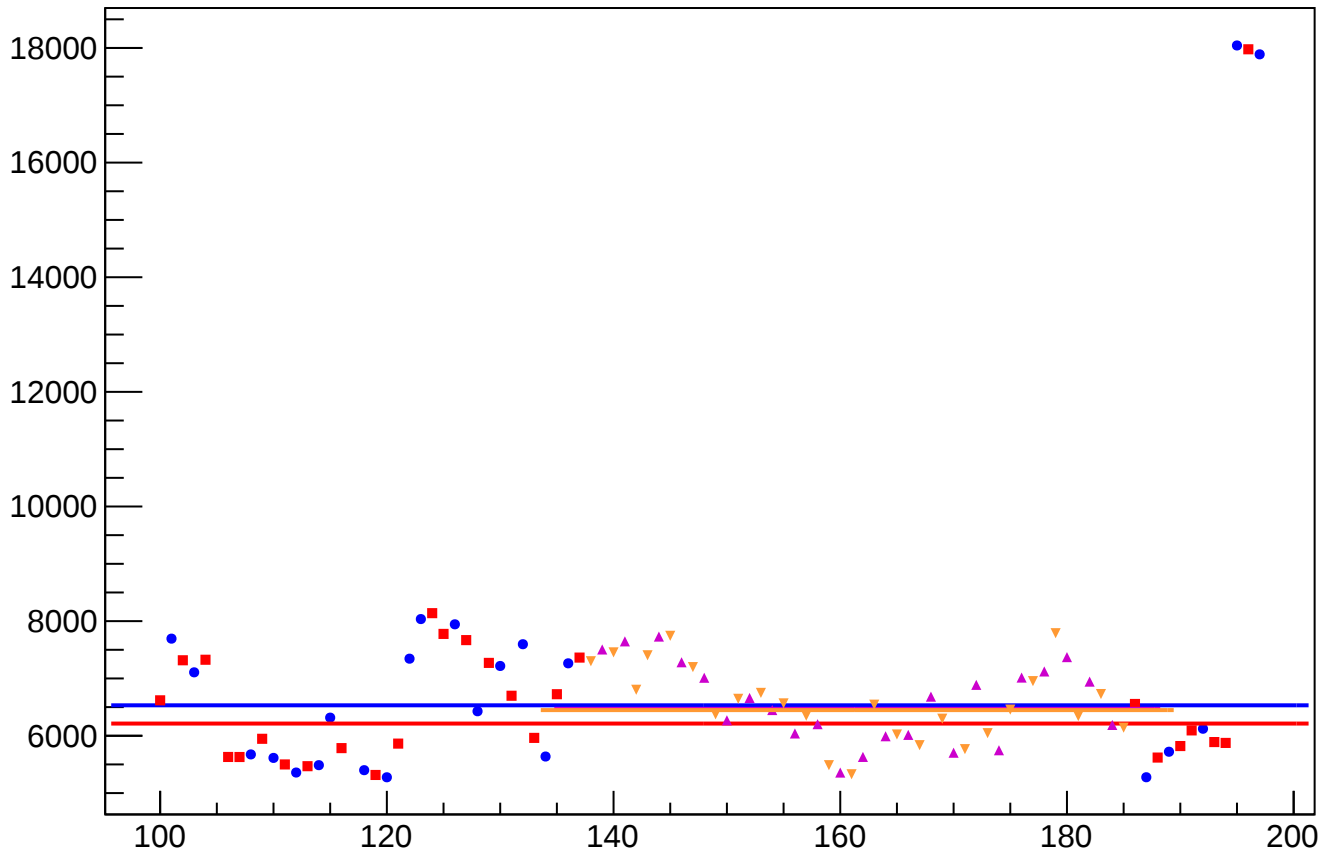
Right: -4.838 ± 1.433 $\chi^2/\text{NDF}: 343.1/47$

In: -4.643 ± 1.275 $\chi^2/\text{NDF}: 194.4/44$

Out: -7.811 ± 1.186 $\chi^2/\text{NDF}: 194.1/50$

All: -6.341 ± 0.868 $\chi^2/\text{NDF}: 391.8/95$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6531.423+/-1.543 χ^2/NDF : 1595705.7/21

Left Out: 6447.712+/-1.074 χ^2/NDF : 371671.1/24

Right Out: 6212.940+/-1.343 χ^2/NDF : 949858.0/25

Left In: 6468.902+/-1.111 χ^2/NDF : 383325.4/22

Left: 6457.948+/-0.772 χ^2/NDF : 755184.7/47

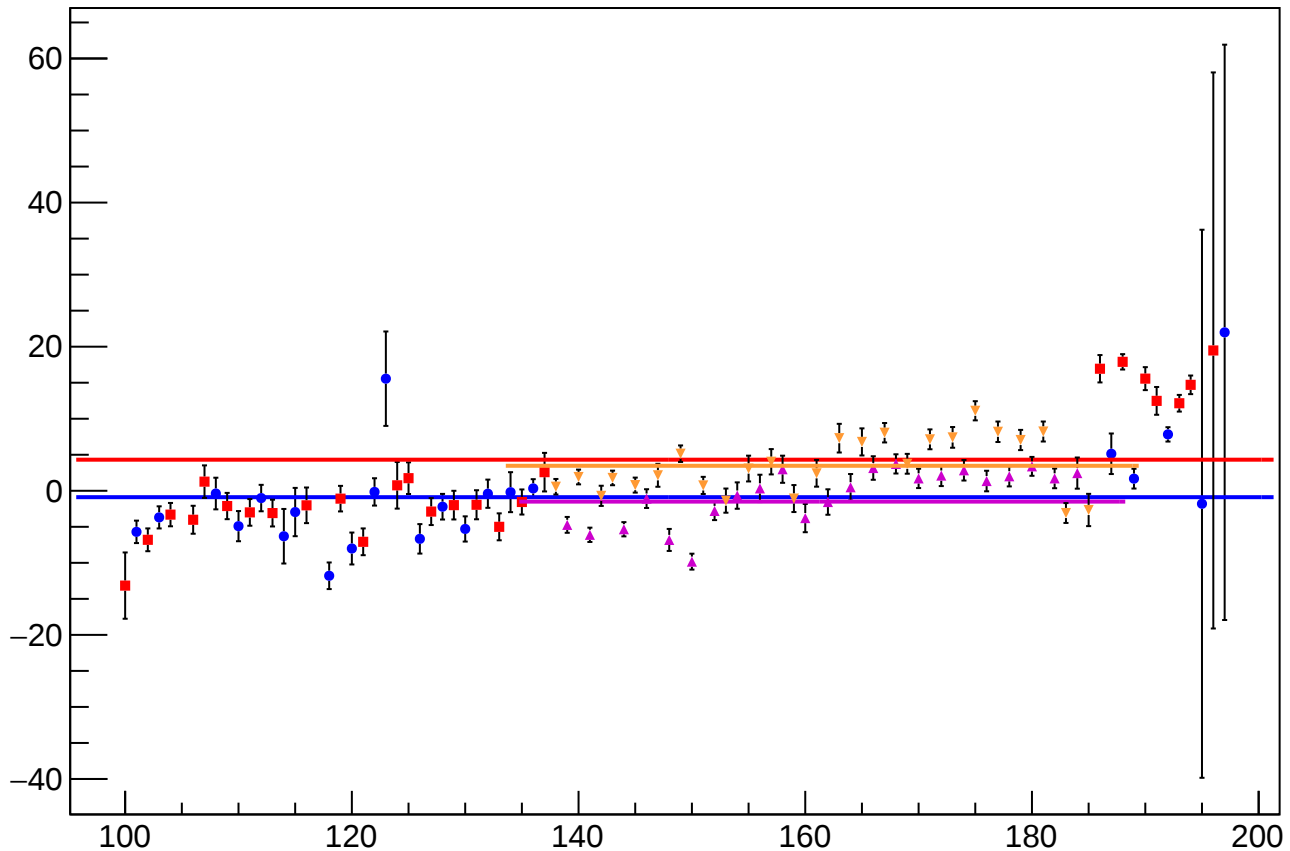
Right: 6350.198+/-1.013 χ^2/NDF : 2569795.2/47

In: 6490.231+/-0.901 χ^2/NDF : 1980112.3/44

Out: 6356.189+/-0.839 χ^2/NDF : 1340171.2/50

All: 6418.377+/-0.614 χ^2/NDF : 3332136.3/95

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.888 ± 0.406 χ^2/NDF : 171.6/21

Left Out: 3.470 ± 0.276 χ^2/NDF : 176.0/24

Right Out: 4.316 ± 0.355 χ^2/NDF : 662.2/25

Left In: -1.502 ± 0.291 χ^2/NDF : 202.7/22

Left: 1.109 ± 0.200 χ^2/NDF : 532.4/47

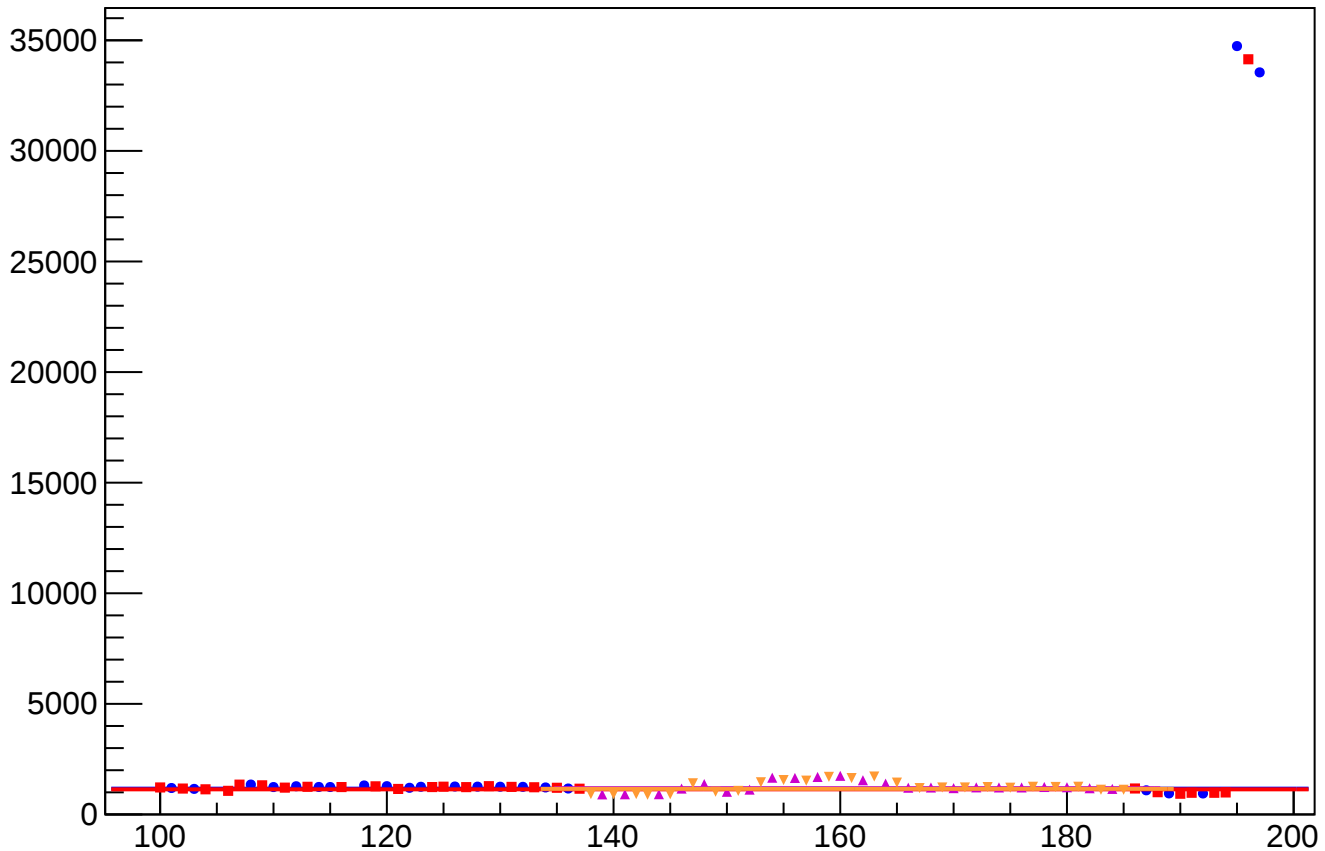
Right: 2.062 ± 0.267 χ^2/NDF : 927.1/47

In: -1.294 ± 0.236 χ^2/NDF : 375.9/44

Out: 3.790 ± 0.218 χ^2/NDF : 841.7/50

All: 1.452 ± 0.160 χ^2/NDF : 1467.6/95

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1166.196 $\pm$ 0.287 χ^2 /NDF: 3083545.5/21

Left Out: 1158.894 $\pm$ 0.195 χ^2 /NDF: 1410423.6/24

Right Out: 1135.294 $\pm$ 0.251 χ^2 /NDF: 1704266.6/25

Left In: 1184.966 $\pm$ 0.206 χ^2 /NDF: 1190431.5/22

Left: 1171.274 $\pm$ 0.142 χ^2 /NDF: 2609306.9/47

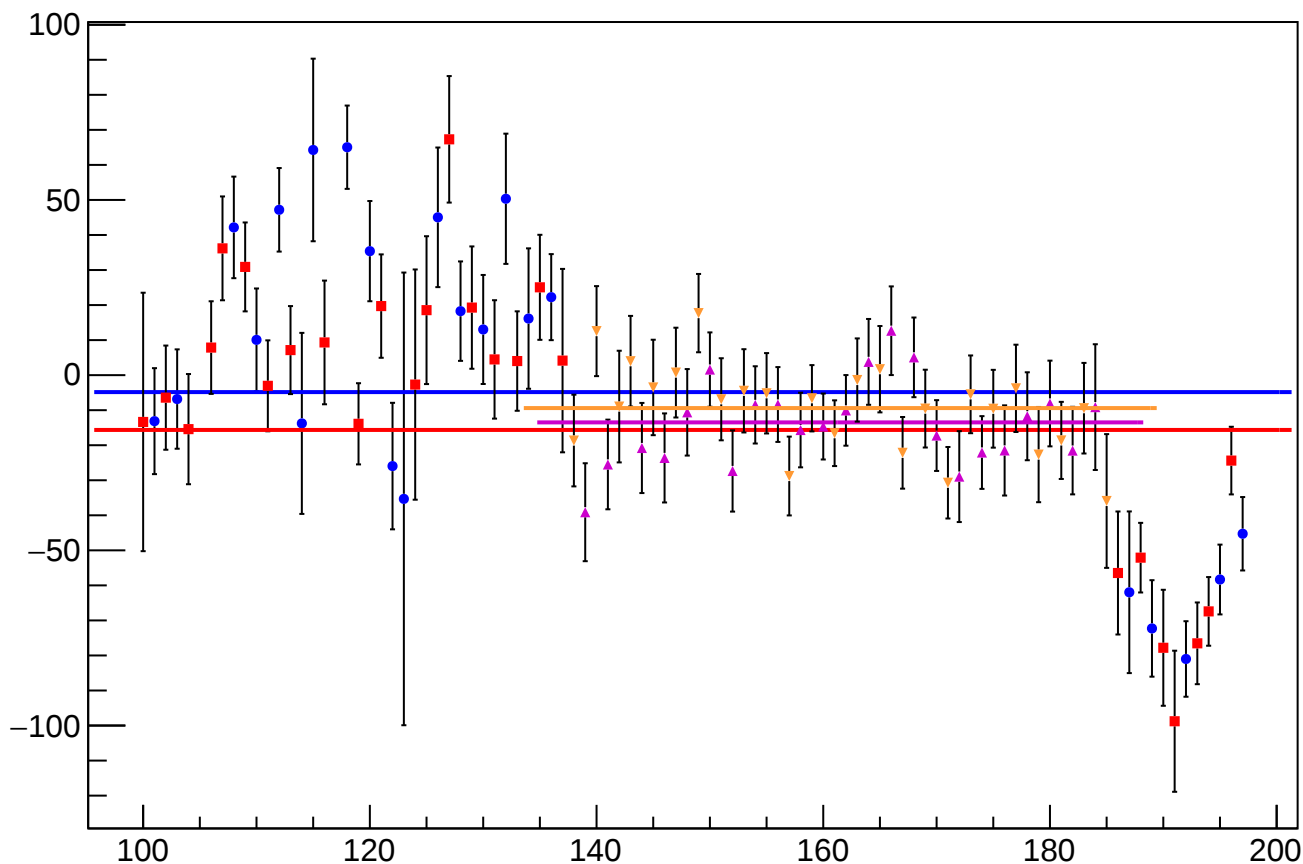
Right: 1148.676 $\pm$ 0.189 χ^2 /NDF: 4794389.1/47

In: 1178.601 $\pm$ 0.167 χ^2 /NDF: 4276805.9/44

Out: 1149.976 $\pm$ 0.154 χ^2 /NDF: 3120201.1/50

All: 1163.138 $\pm$ 0.113 χ^2 /NDF: 7412864.0/95

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -4.837 $\pm$ 3.121 χ^2/NDF : 231.0/21

Left Out: -9.398 $\pm$ 2.358 χ^2/NDF : 26.3/24

Right Out: -15.638 $\pm$ 2.826 χ^2/NDF : 186.5/25

Left In: -13.485 $\pm$ 2.443 χ^2/NDF : 21.6/22

Left: -11.369 $\pm$ 1.697 χ^2/NDF : 49.3/47

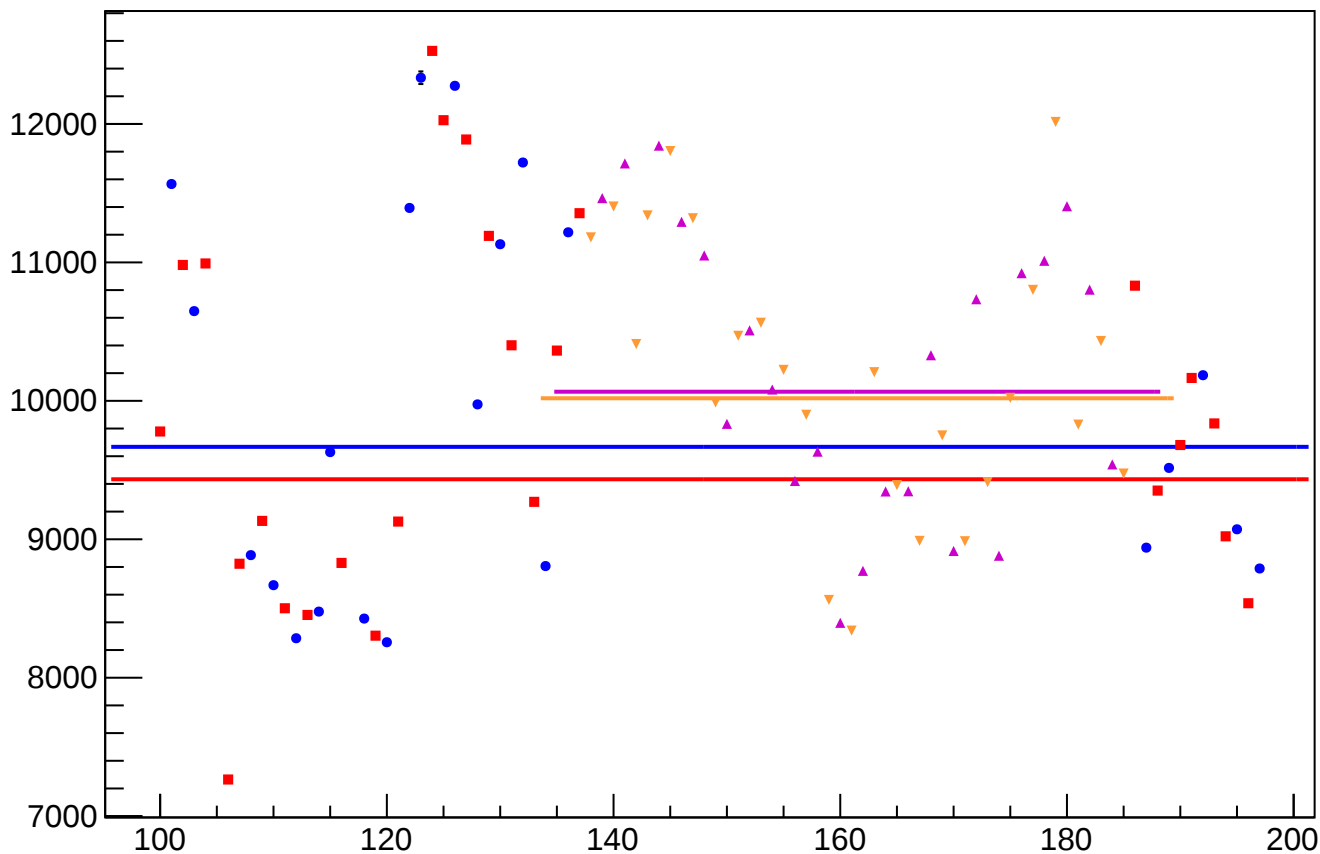
Right: -10.773 $\pm$ 2.095 χ^2/NDF : 424.0/47

In: -10.200 $\pm$ 1.924 χ^2/NDF : 257.3/44

Out: -11.960 $\pm$ 1.811 χ^2/NDF : 215.6/50

All: -11.133 $\pm$ 1.319 χ^2/NDF : 473.3/95

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9667.690 ± 2.207 $\chi^2/\text{NDF}: 291238.5/21$

Left Out: 10018.563 ± 1.668 $\chi^2/\text{NDF}: 344534.6/24$

Right Out: 9433.512 ± 1.998 $\chi^2/\text{NDF}: 314169.4/25$

Left In: 10065.909 ± 1.727 $\chi^2/\text{NDF}: 357868.9/22$

Left: 10041.404 ± 1.200 $\chi^2/\text{NDF}: 702792.3/47$

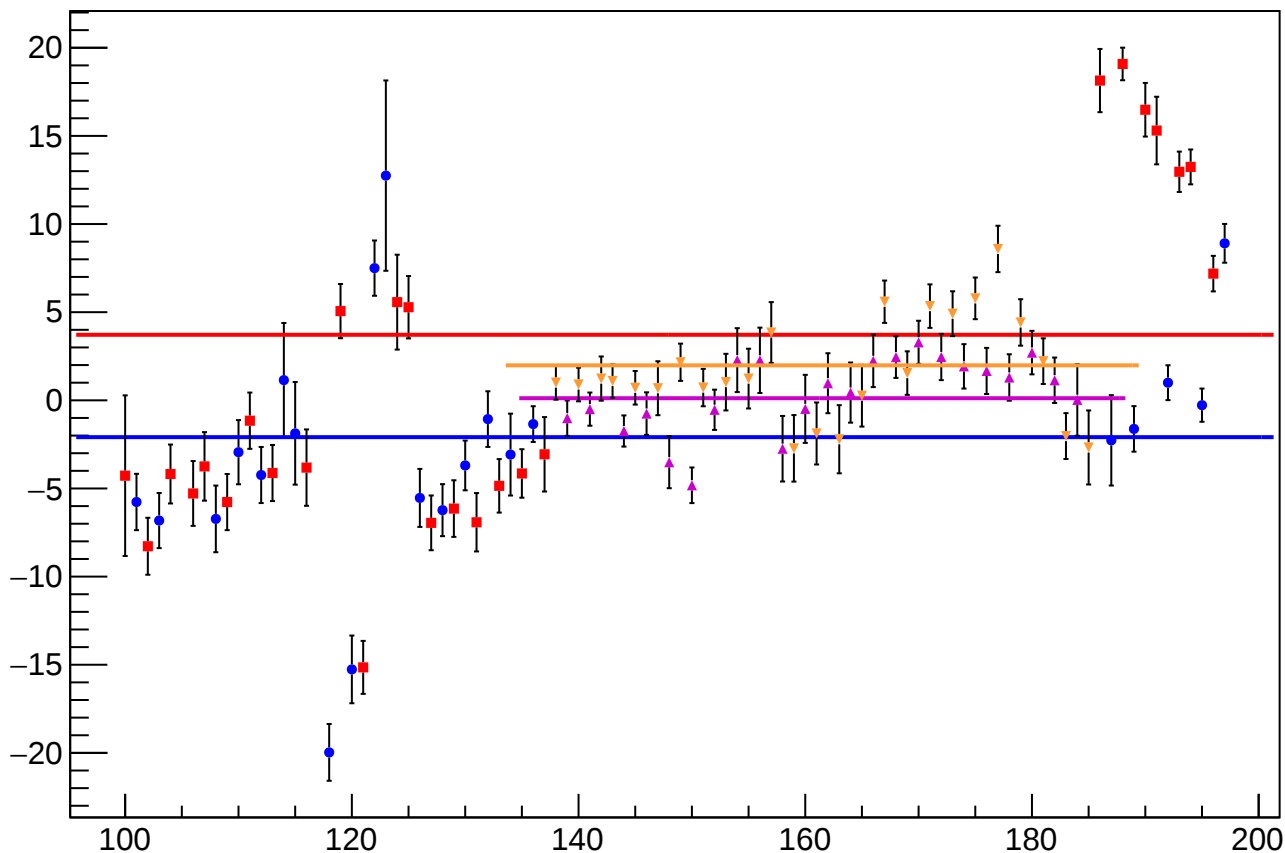
Right: 9538.989 ± 1.481 $\chi^2/\text{NDF}: 611594.3/47$

In: 9914.658 ± 1.360 $\chi^2/\text{NDF}: 669294.2/44$

Out: 9778.356 ± 1.280 $\chi^2/\text{NDF}: 709233.6/50$

All: 9842.384 ± 0.932 $\chi^2/\text{NDF}: 1383851.5/95$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -2.089 ± 0.321 χ^2/NDF : 367.0/21

Left Out: 1.985 ± 0.255 χ^2/NDF : 101.2/24

Right Out: 3.718 ± 0.296 χ^2/NDF : 1179.1/25

Left In: 0.120 ± 0.269 χ^2/NDF : 67.6/22

Left: 1.102 ± 0.185 χ^2/NDF : 194.2/47

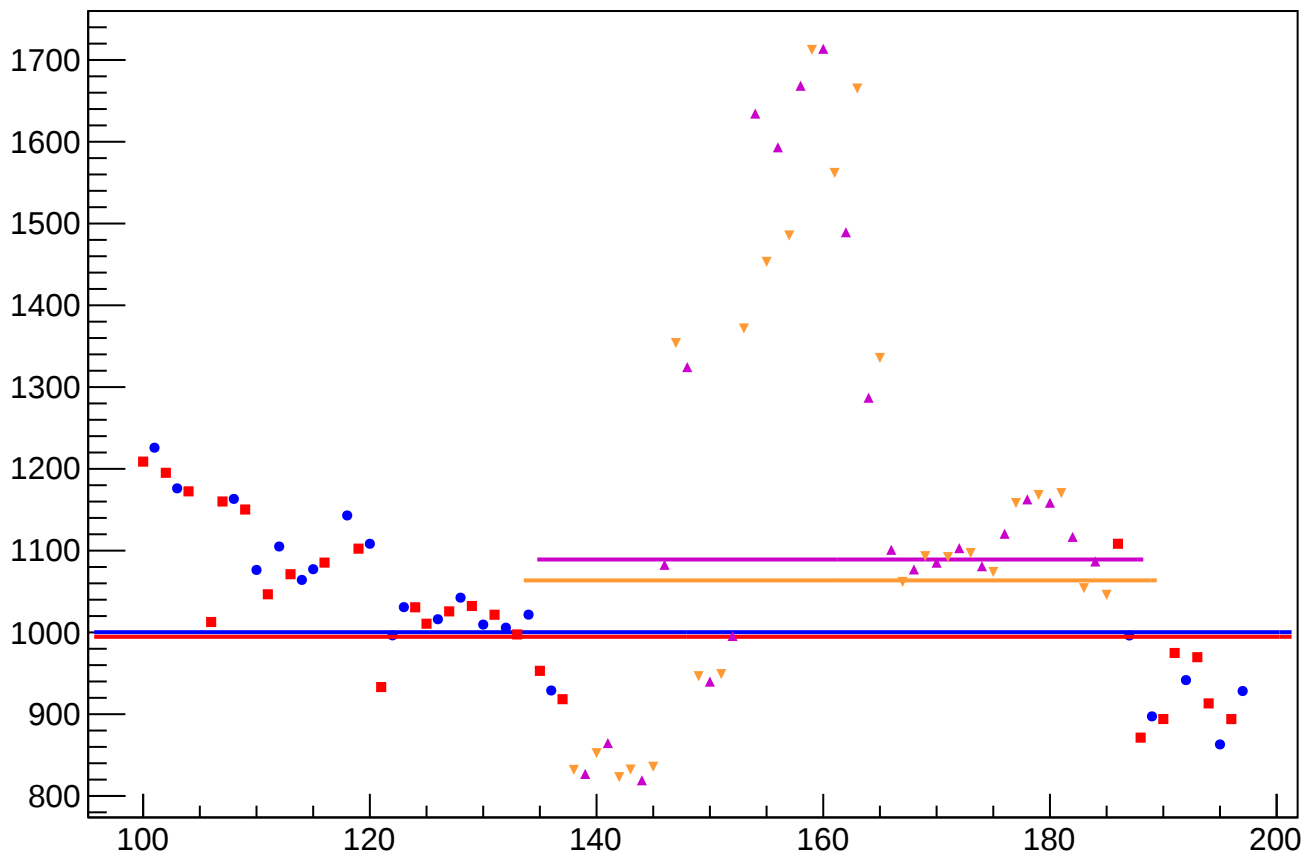
Right: 1.045 ± 0.218 χ^2/NDF : 1722.7/47

In: -0.790 ± 0.206 χ^2/NDF : 462.4/44

Out: 2.721 ± 0.193 χ^2/NDF : 1300.0/50

All: 1.078 ± 0.141 χ^2/NDF : 1916.9/95

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1000.274 ± 0.227 $\chi^2/\text{NDF}: 199280.4/21$

Left Out: 1063.600 ± 0.180 $\chi^2/\text{NDF}: 1617376.3/24$

Right Out: 994.642 ± 0.210 $\chi^2/\text{NDF}: 209583.5/25$

Left In: 1089.154 ± 0.190 $\chi^2/\text{NDF}: 1430478.5/22$

Left: 1075.700 ± 0.131 $\chi^2/\text{NDF}: 3057378.7/47$

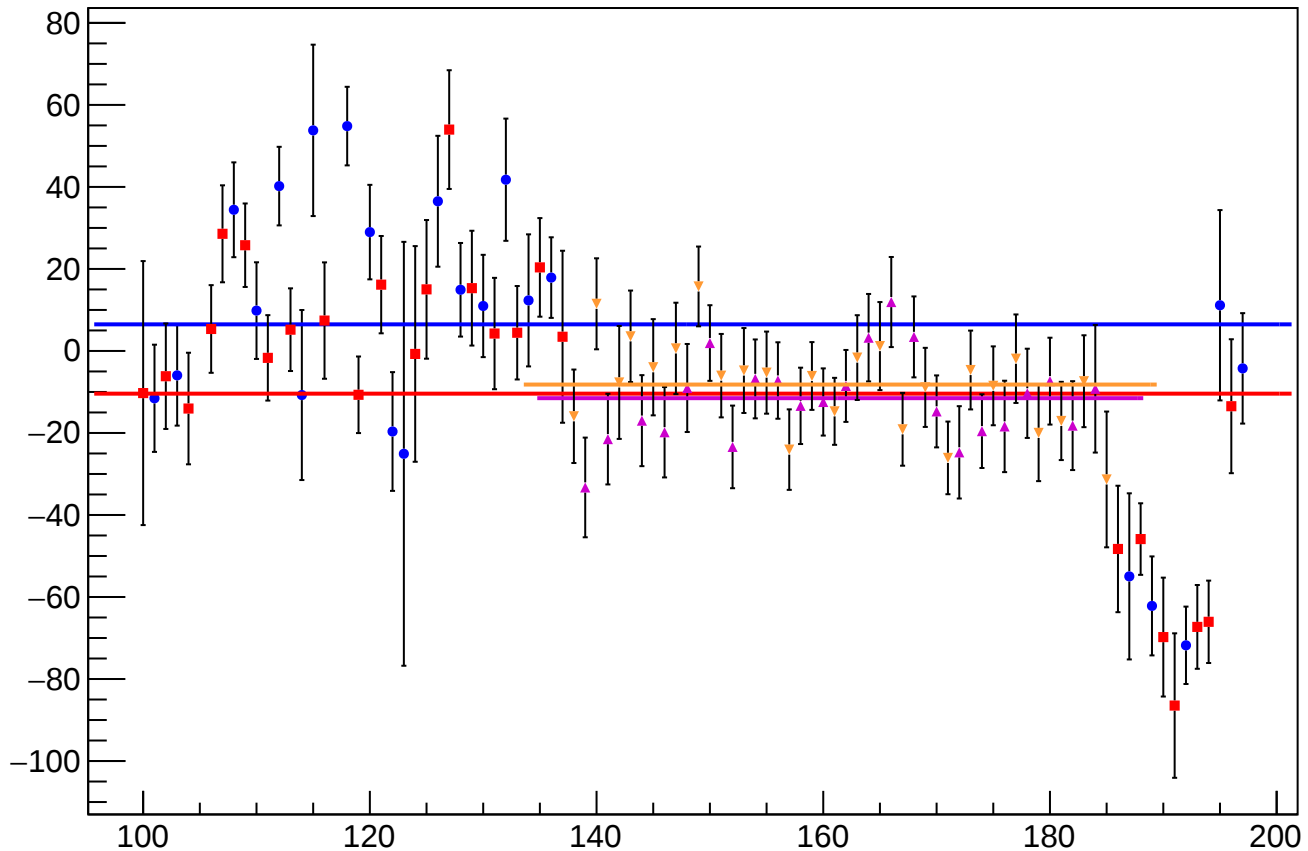
Right: 997.235 ± 0.154 $\chi^2/\text{NDF}: 409196.1/47$

In: 1052.532 ± 0.146 $\chi^2/\text{NDF}: 1719930.8/44$

Out: 1034.301 ± 0.137 $\chi^2/\text{NDF}: 1889194.5/50$

All: 1042.833 ± 0.100 $\chi^2/\text{NDF}: 3617456.4/95$

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 6.487 ± 2.764 $\chi^2/\text{NDF}: 182.3/21$

Left Out: -8.195 ± 2.049 $\chi^2/\text{NDF}: 26.2/24$

Right Out: -10.413 ± 2.453 $\chi^2/\text{NDF}: 190.7/25$

Left In: -11.515 ± 2.122 $\chi^2/\text{NDF}: 21.0/22$

Left: -9.796 ± 1.474 $\chi^2/\text{NDF}: 48.5/47$

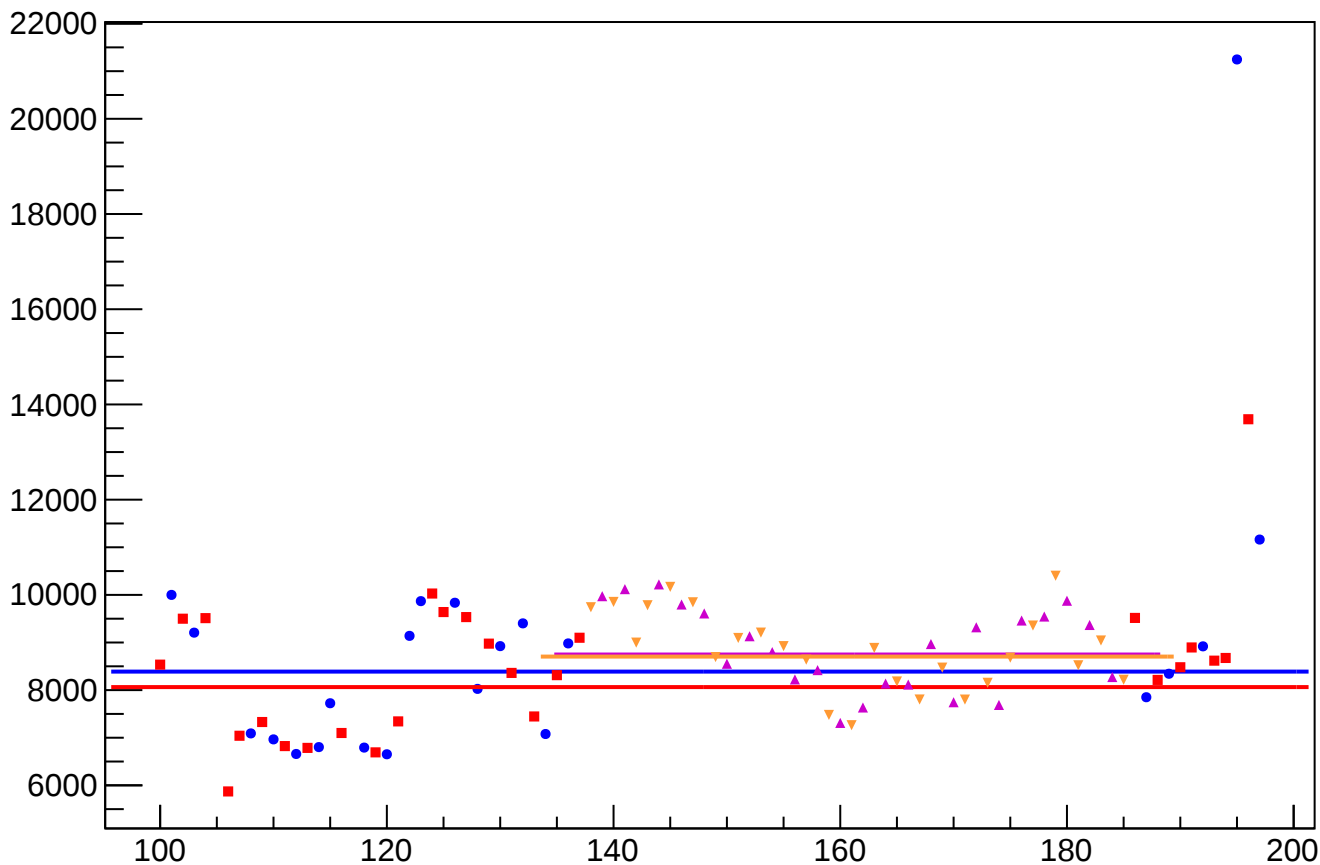
Right: -2.968 ± 1.834 $\chi^2/\text{NDF}: 393.8/47$

In: -4.838 ± 1.683 $\chi^2/\text{NDF}: 230.0/44$

Out: -9.107 ± 1.572 $\chi^2/\text{NDF}: 217.3/50$

All: -7.118 ± 1.149 $\chi^2/\text{NDF}: 450.7/95$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8388.798 $\pm$ 1.954 χ^2/NDF : 1038872.4/21

Left Out: 8704.193 $\pm$ 1.449 χ^2/NDF : 332364.3/24

Right Out: 8063.440 $\pm$ 1.734 χ^2/NDF : 622928.0/25

Left In: 8747.415 $\pm$ 1.501 χ^2/NDF : 347110.4/22

Left: 8725.041 $\pm$ 1.042 χ^2/NDF : 679904.0/47

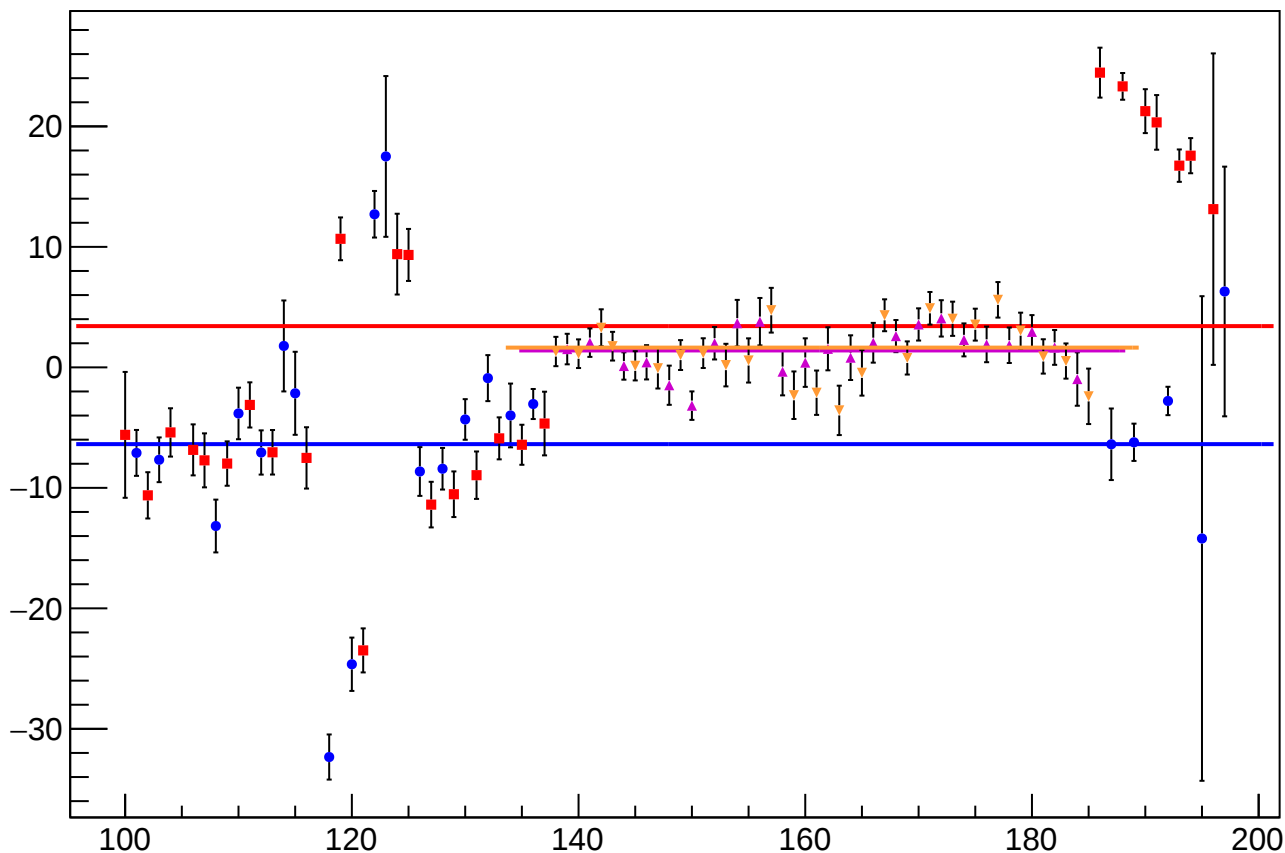
Right: 8206.765 $\pm$ 1.297 χ^2/NDF : 1677306.1/47

In: 8614.395 $\pm$ 1.190 χ^2/NDF : 1407163.7/44

Out: 8440.849 $\pm$ 1.112 χ^2/NDF : 1035702.1/50

All: 8521.709 $\pm$ 0.812 χ^2/NDF : 2454219.1/95

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.371 $\pm$ 0.427 χ^2/NDF : 420.0/21

Left Out: 1.639 $\pm$ 0.294 χ^2/NDF :51.3/24

Right Out: 3.424 $\pm$ 0.374 χ^2/NDF : 1466.4/25

Left In: 1.404 $\pm$ 0.309 χ^2/NDF :34.1/22

Left: 1.528 $\pm$ 0.213 χ^2/NDF : 85.8/47

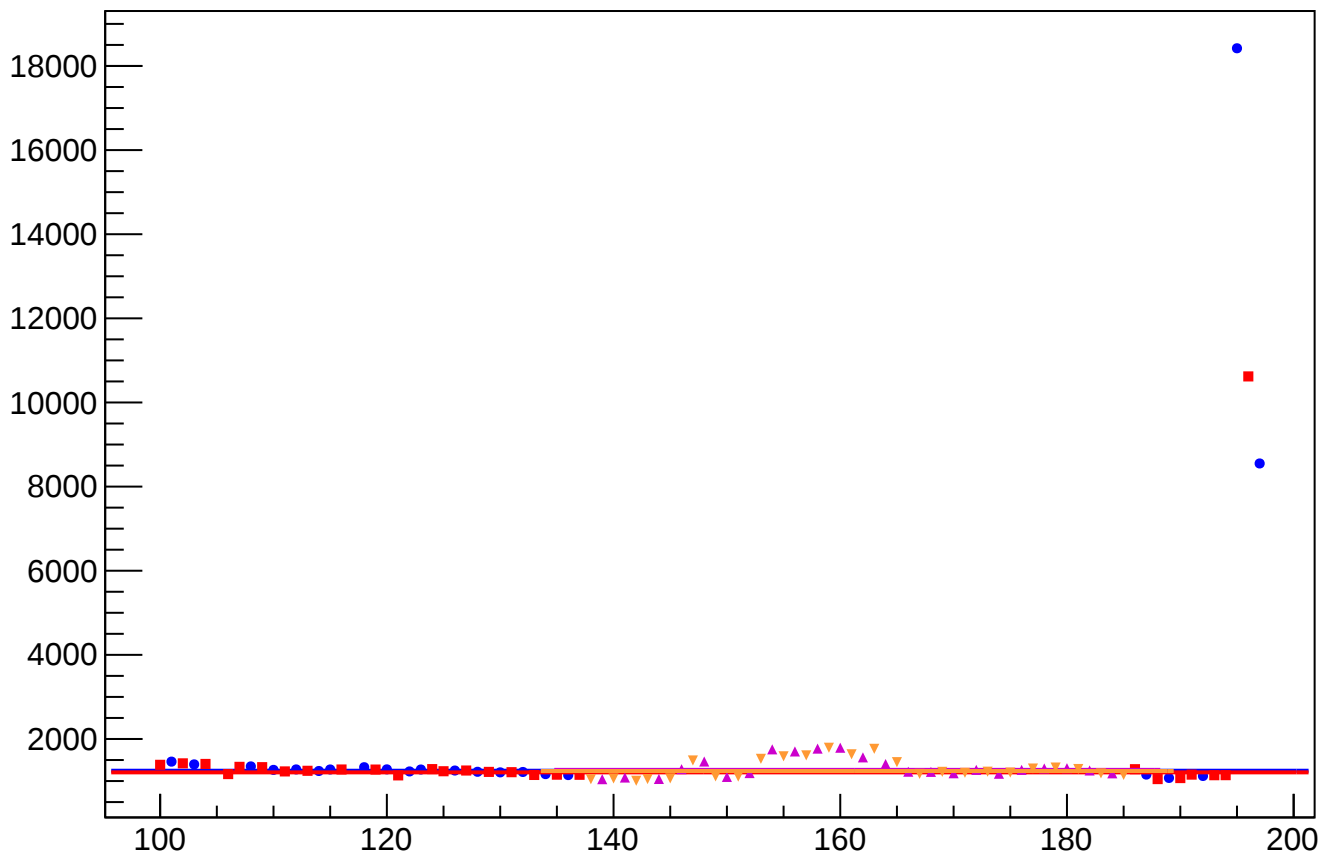
Right: -0.827 $\pm$ 0.281 χ^2/NDF : 2184.0/47

In: -1.266 $\pm$ 0.250 χ^2/NDF :671.6/44

Out: 2.320 $\pm$ 0.231 χ^2/NDF :1531.8/50

All: 0.671 $\pm$ 0.170 χ^2/NDF : 2314.3/95

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1245.145 $\pm$ 0.302 χ^2/NDF : 2568221.9/21

Left Out: 1238.437 $\pm$ 0.208 χ^2/NDF : 965173.0/24

Right Out: 1206.421 $\pm$ 0.265 χ^2/NDF : 1206694.3/25

Left In: 1265.673 $\pm$ 0.218 χ^2/NDF : 845157.0/22

Left: 1251.361 $\pm$ 0.151 χ^2/NDF : 1818496.6/47

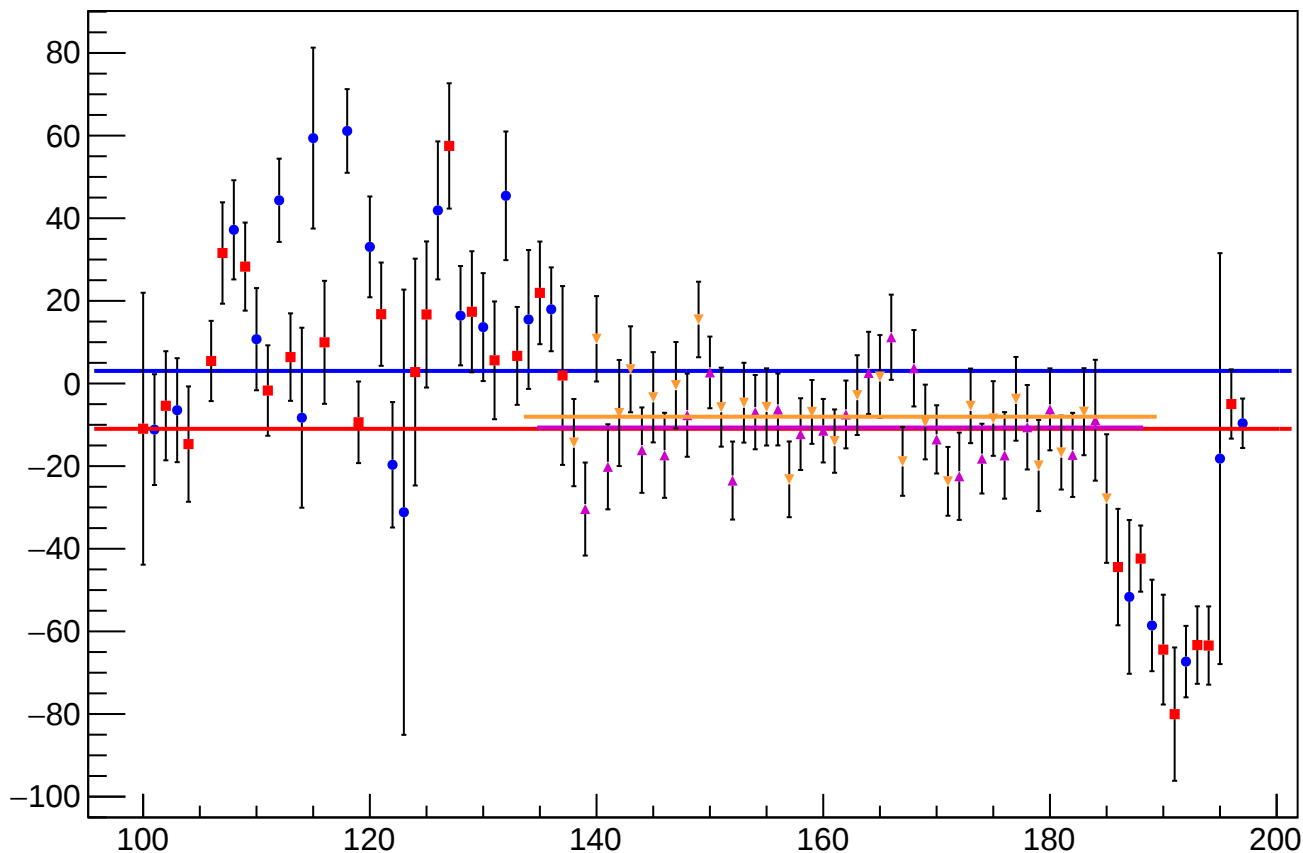
Right: 1223.226 $\pm$ 0.199 χ^2/NDF : 3784217.8/47

In: 1258.623 $\pm$ 0.177 χ^2/NDF : 3416411.0/44

Out: 1226.232 $\pm$ 0.163 χ^2/NDF : 2180932.8/50

All: 1241.124 $\pm$ 0.120 χ^2/NDF : 5615429.9/95

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 3.045 $\pm$ 2.608 χ^2/NDF : 203.4/21

Left Out: -8.042 $\pm$ 1.918 χ^2/NDF : 26.3/24

Right Out: -10.972 $\pm$ 2.374 χ^2/NDF : 194.7/25

Left In: -10.653 $\pm$ 1.988 χ^2/NDF : 21.4/22

Left: -9.301 $\pm$ 1.380 χ^2/NDF : 48.6/47

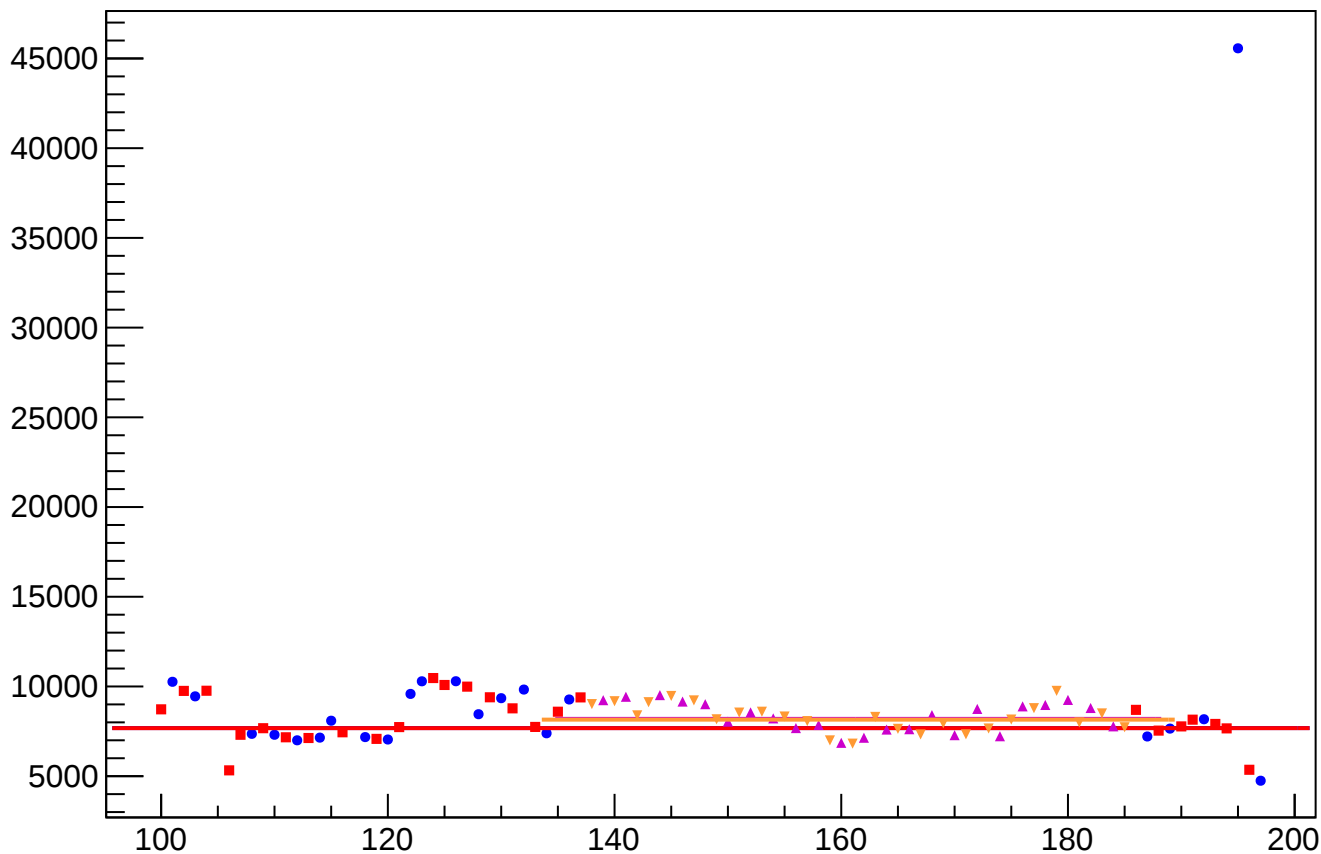
Right: -4.618 $\pm$ 1.756 χ^2/NDF : 413.9/47

In: -5.620 $\pm$ 1.581 χ^2/NDF : 242.3/44

Out: -9.199 $\pm$ 1.492 χ^2/NDF : 221.9/50

All: -7.513 $\pm$ 1.085 χ^2/NDF : 466.9/95

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 7681.688 $\pm$ 1.844 χ^2/NDF : 2000564.3/21

Left Out: 8151.489 $\pm$ 1.356 χ^2/NDF : 321803.3/24

Right Out: 7677.257 $\pm$ 1.679 χ^2/NDF : 567446.1/25

Left In: 8193.636 $\pm$ 1.405 χ^2/NDF : 338377.6/22

Left: 8171.814 $\pm$ 0.976 χ^2/NDF : 660646.6/47

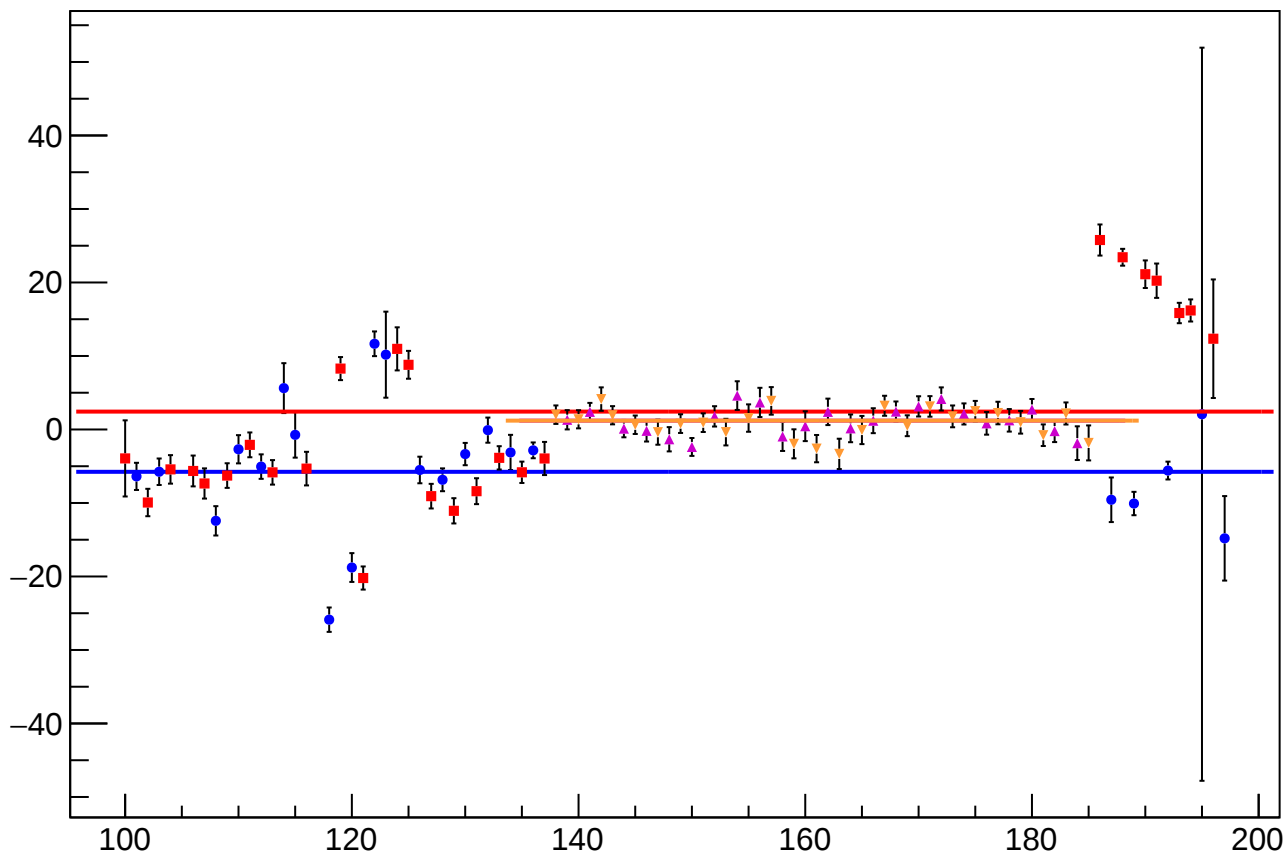
Right: 7679.265 $\pm$ 1.241 χ^2/NDF : 2568013.6/47

In: 8005.529 $\pm$ 1.118 χ^2/NDF : 2387696.9/44

Out: 7964.220 $\pm$ 1.055 χ^2/NDF : 937524.2/50

All: 7983.683 $\pm$ 0.767 χ^2/NDF : 3325943.3/95

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.760 ± 0.394 χ^2/NDF : 368.3/21

Left Out: 1.203 ± 0.302 χ^2/NDF : 29.9/24

Right Out: 2.433 ± 0.353 χ^2/NDF : 1408.0/25

Left In: 1.198 ± 0.318 χ^2/NDF : 31.2/22

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

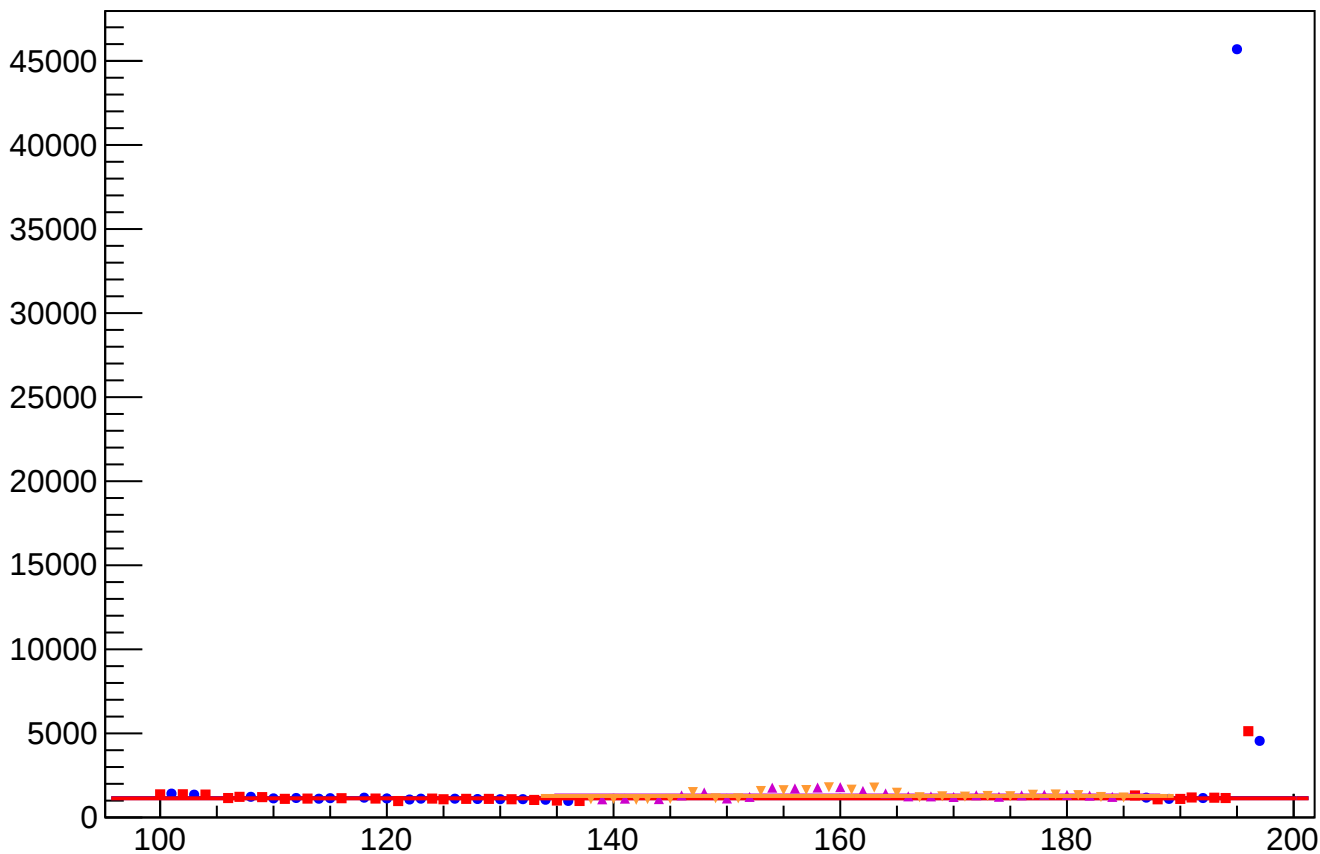
Right: -1.210 ± 0.263 χ^2/NDF : 2016.3/47

In: -1.547 ± 0.248 χ^2/NDF : 588.1/44

Out: 1.724 ± 0.230 χ^2/NDF : 1445.0/50

All: 0.212 ± 0.168 χ^2/NDF : 2127.0/95

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1149.763+/-0.279 χ^2/NDF : 2436754.0/21

Left Out: 1277.916+/-0.214 χ^2/NDF : 878127.9/24

Right Out: 1137.125+/-0.249 χ^2/NDF : 643826.2/25

Left In: 1305.541+/-0.225 χ^2/NDF : 760450.8/22

Left: 1291.030+/-0.155 χ^2/NDF : 1646499.4/47

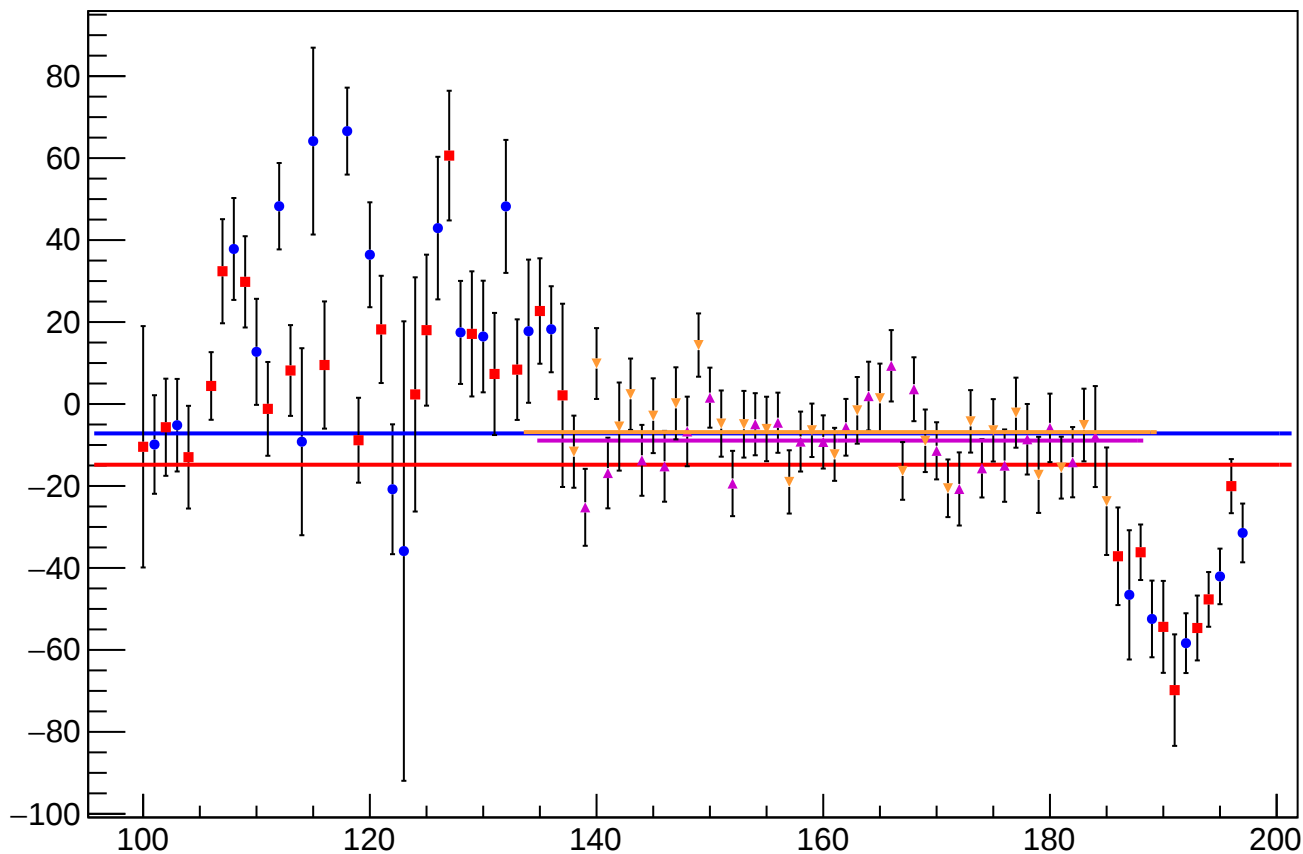
Right: 1142.745+/-0.186 χ^2/NDF : 3081721.8/47

In: 1244.095+/-0.175 χ^2/NDF : 3386339.6/44

Out: 1218.263+/-0.162 χ^2/NDF : 1705587.8/50

All: 1230.208+/-0.119 χ^2/NDF : 5103633.4/95

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -7.175 $\pm$ 2.455 χ^2/NDF : 265.5/21

Left Out: -6.854 $\pm$ 1.616 χ^2/NDF : 28.7/24

Right Out: -14.812 $\pm$ 2.162 χ^2/NDF : 188.8/25

Left In: -8.923 $\pm$ 1.674 χ^2/NDF : 21.8/22

Left: -7.852 $\pm$ 1.163 χ^2/NDF : 51.3/47

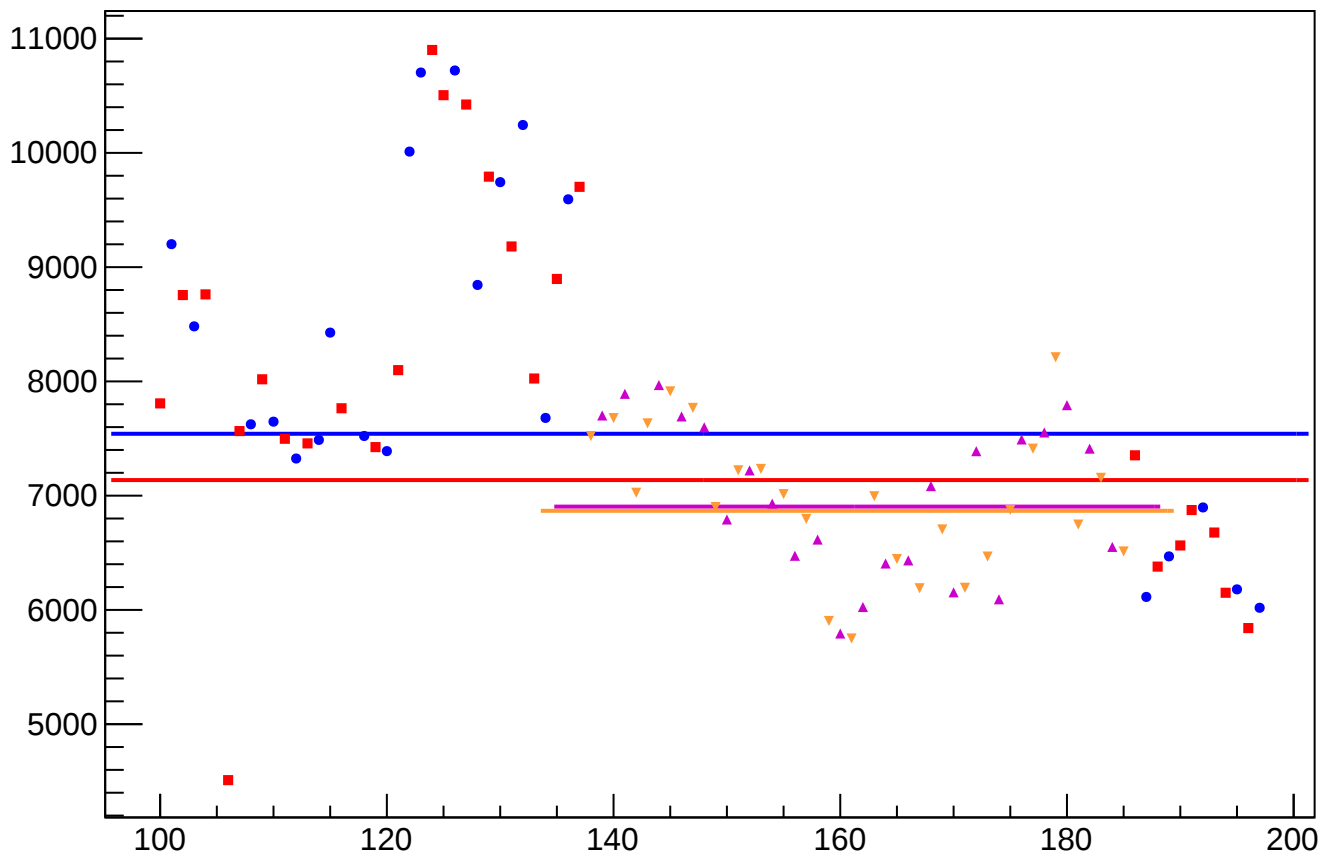
Right: -11.475 $\pm$ 1.623 χ^2/NDF : 459.7/47

In: -8.368 $\pm$ 1.383 χ^2/NDF : 287.7/44

Out: -9.705 $\pm$ 1.294 χ^2/NDF : 226.1/50

All: -9.081 $\pm$ 0.945 χ^2/NDF : 514.3/95

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7541.674 ± 1.736 $\chi^2/\text{NDF}: 613170.4/21$

Left Out: 6867.371 ± 1.142 $\chi^2/\text{NDF}: 306895.0/24$

Right Out: 7136.361 ± 1.529 $\chi^2/\text{NDF}: 828133.4/25$

Left In: 6904.117 ± 1.184 $\chi^2/\text{NDF}: 325912.6/22$

Left: 6885.088 ± 0.822 $\chi^2/\text{NDF}: 633306.5/47$

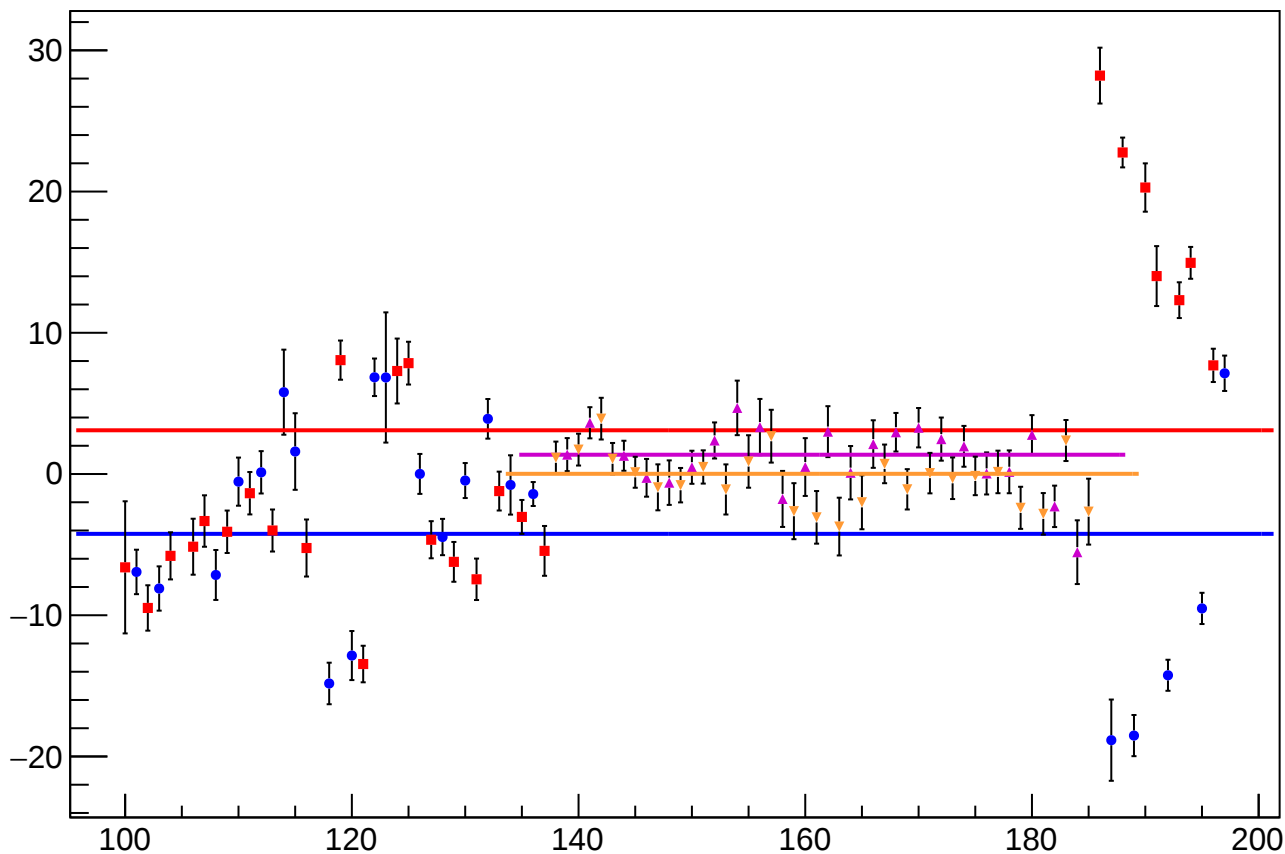
Right: 7313.454 ± 1.147 $\chi^2/\text{NDF}: 1472007.8/47$

In: 7106.559 ± 0.978 $\chi^2/\text{NDF}: 1031164.7/44$

Out: 6963.735 ± 0.915 $\chi^2/\text{NDF}: 1154891.3/50$

All: 7030.405 ± 0.668 $\chi^2/\text{NDF}: 2197426.1/95$

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.237 ± 0.311 χ^2/NDF : 568.4/21

Left Out: 0.014 ± 0.290 χ^2/NDF : 35.0/24

Right Out: 3.096 ± 0.293 χ^2/NDF : 1388.7/25

Left In: 1.365 ± 0.306 χ^2/NDF : 38.5/22

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

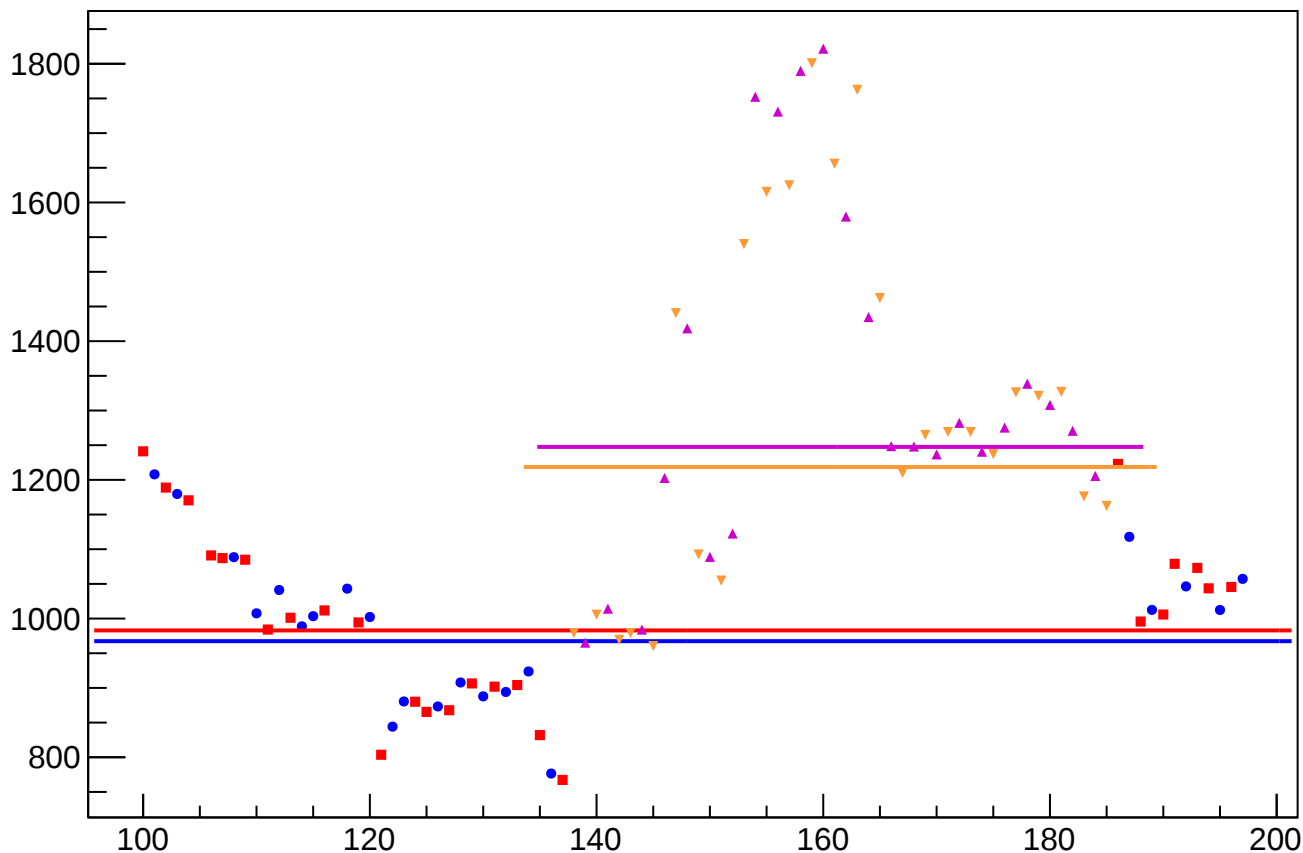
Right: -0.357 ± 0.213 χ^2/NDF : 2251.1/47

In: -1.385 ± 0.218 χ^2/NDF : 772.0/44

Out: 1.536 ± 0.206 χ^2/NDF : 1479.5/50

All: 0.156 ± 0.150 χ^2/NDF : 2346.2/95

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 967.408 $\pm$ 0.220 χ^2 /NDF: 283633.2/21

Left Out: 1218.543 $\pm$ 0.205 χ^2 /NDF:1265847.5/24

Right Out: 982.905 $\pm$ 0.208 χ^2 /NDF: 292372.3/25

Left In: 1247.538 $\pm$ 0.216 χ^2 /NDF:1073390.3/22

Left: 1232.283 $\pm$ 0.149 χ^2 /NDF: 2348717.2/47

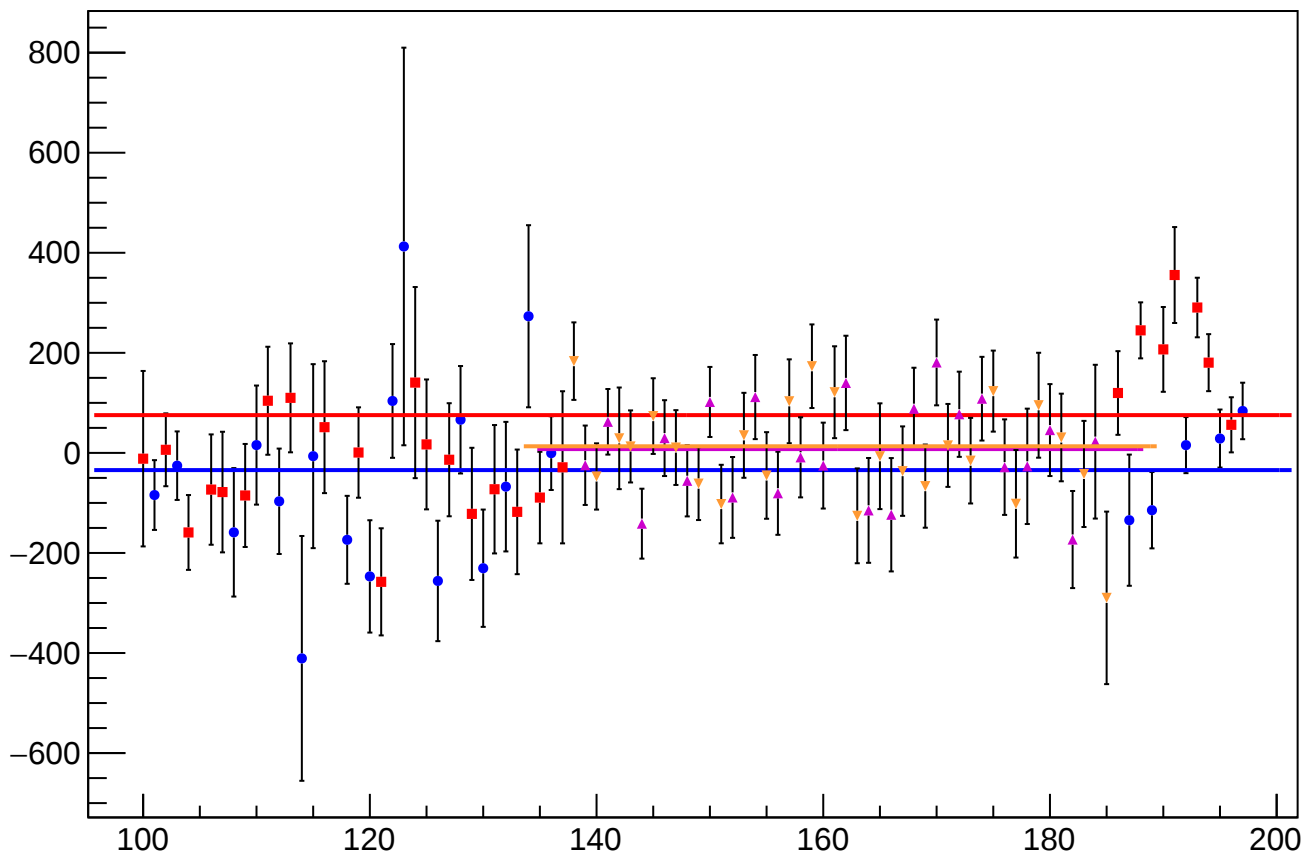
Right: 975.608 $\pm$ 0.151 χ^2 /NDF: 578631.4/47

In: 1110.018 $\pm$ 0.154 χ^2 /NDF:2182553.7/44

Out: 1102.163 $\pm$ 0.146 χ^2 /NDF:2210720.6/50

All: 1105.874 $\pm$ 0.106 χ^2 /NDF: 4394644.7/95

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -34.380 $\pm$ 19.459 χ^2/NDF : 31.5/21

Left Out: 13.207 $\pm$ 17.146 χ^2/NDF : 26.8/24

Right Out: 75.504 $\pm$ 17.614 χ^2/NDF : 75.0/25

Left In: 7.618 $\pm$ 17.672 χ^2/NDF : 28.1/22

Left: 10.497 $\pm$ 12.306 χ^2/NDF : 55.0/47

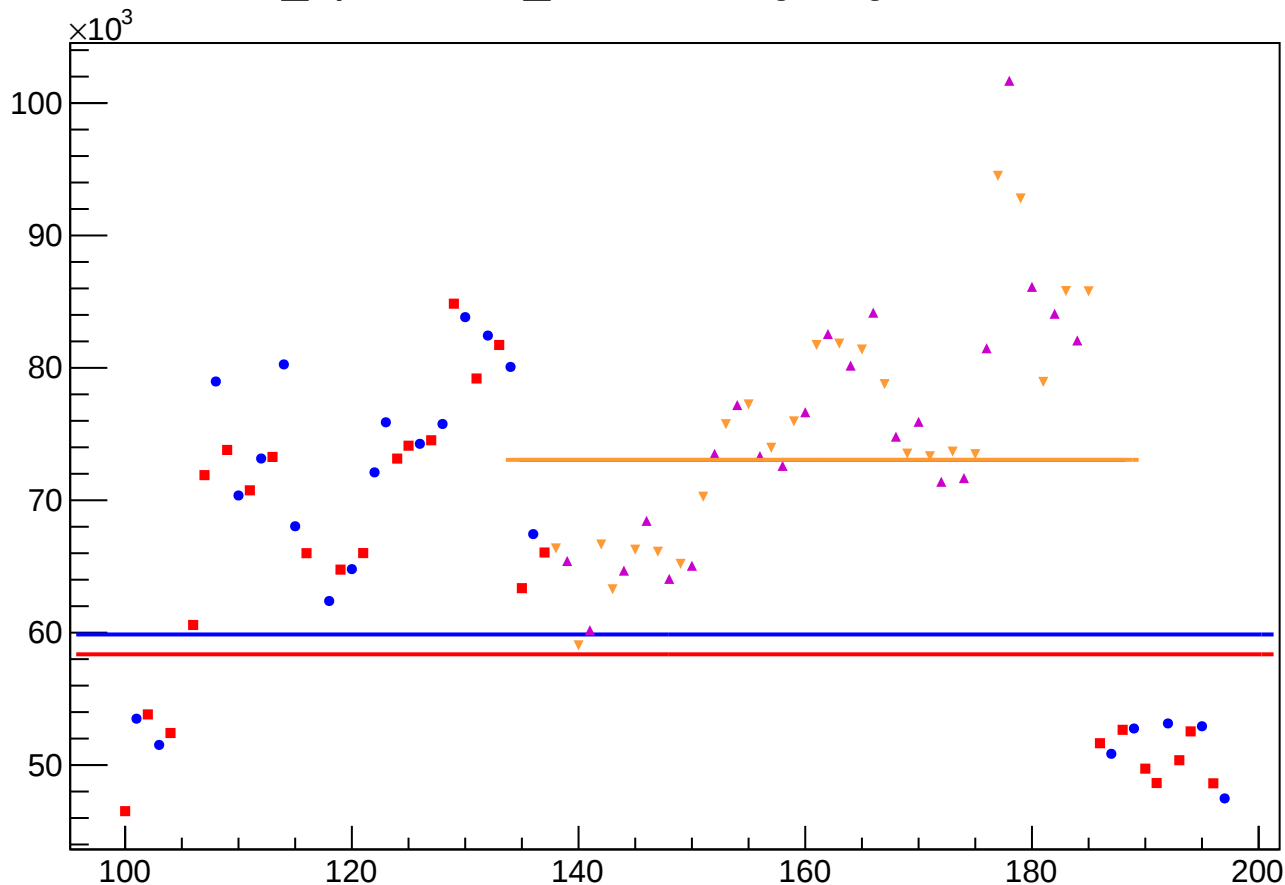
Right: 26.015 $\pm$ 13.059 χ^2/NDF : 124.0/47

In: -11.364 $\pm$ 13.082 χ^2/NDF : 62.1/44

Out: 43.516 $\pm$ 12.286 χ^2/NDF : 108.2/50

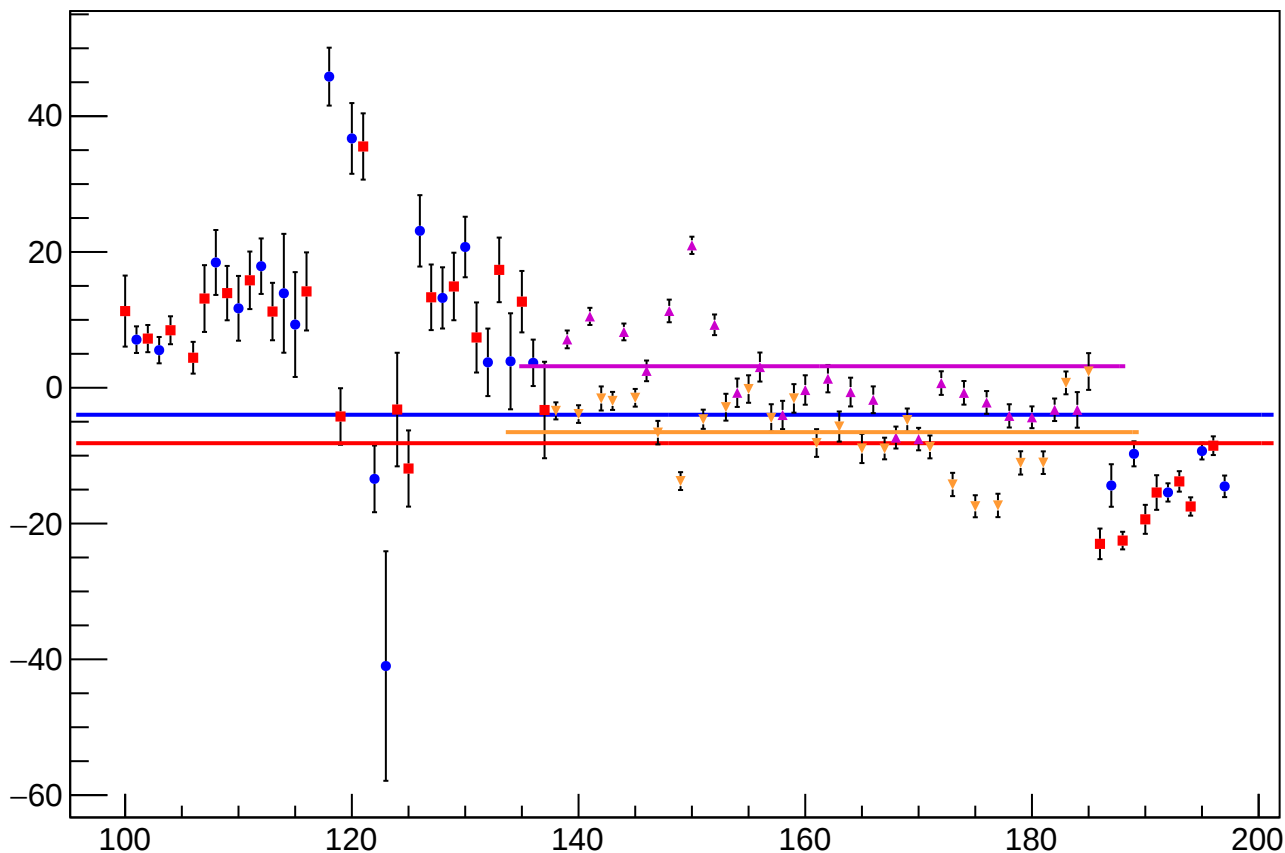
All: 17.796 $\pm$ 8.956 χ^2/NDF : 179.7/95

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 59864.455+/-13.759	χ^2/NDF : 630820.7/21	Left: 73050.085+/-8.701	χ^2/NDF : 936576.6/47
Left Out: 73054.401+/-12.124	χ^2/NDF : 473050.9/24	Right: 59039.896+/-9.234	χ^2/NDF : 1320176.3/47
Right Out: 58364.234+/-12.455	χ^2/NDF : 682821.6/25	In: 67087.934+/-9.250	χ^2/NDF : 1597264.2/44
Left In: 73045.500+/-12.496	χ^2/NDF : 463525.5/22	Out: 65907.184+/-8.688	χ^2/NDF : 1870139.1/50
		All: 66460.564+/-6.333	χ^2/NDF : 3476060.2/9

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -3.976 ± 0.566 χ^2/NDF : 566.8/21

Left Out: -6.537 ± 0.332 χ^2/NDF : 252.7/24

Right Out: -8.165 ± 0.499 χ^2/NDF : 731.0/25

Left In: 3.171 ± 0.346 χ^2/NDF : 487.3/22

Left: -1.892 ± 0.240 χ^2/NDF : 1149.5/47

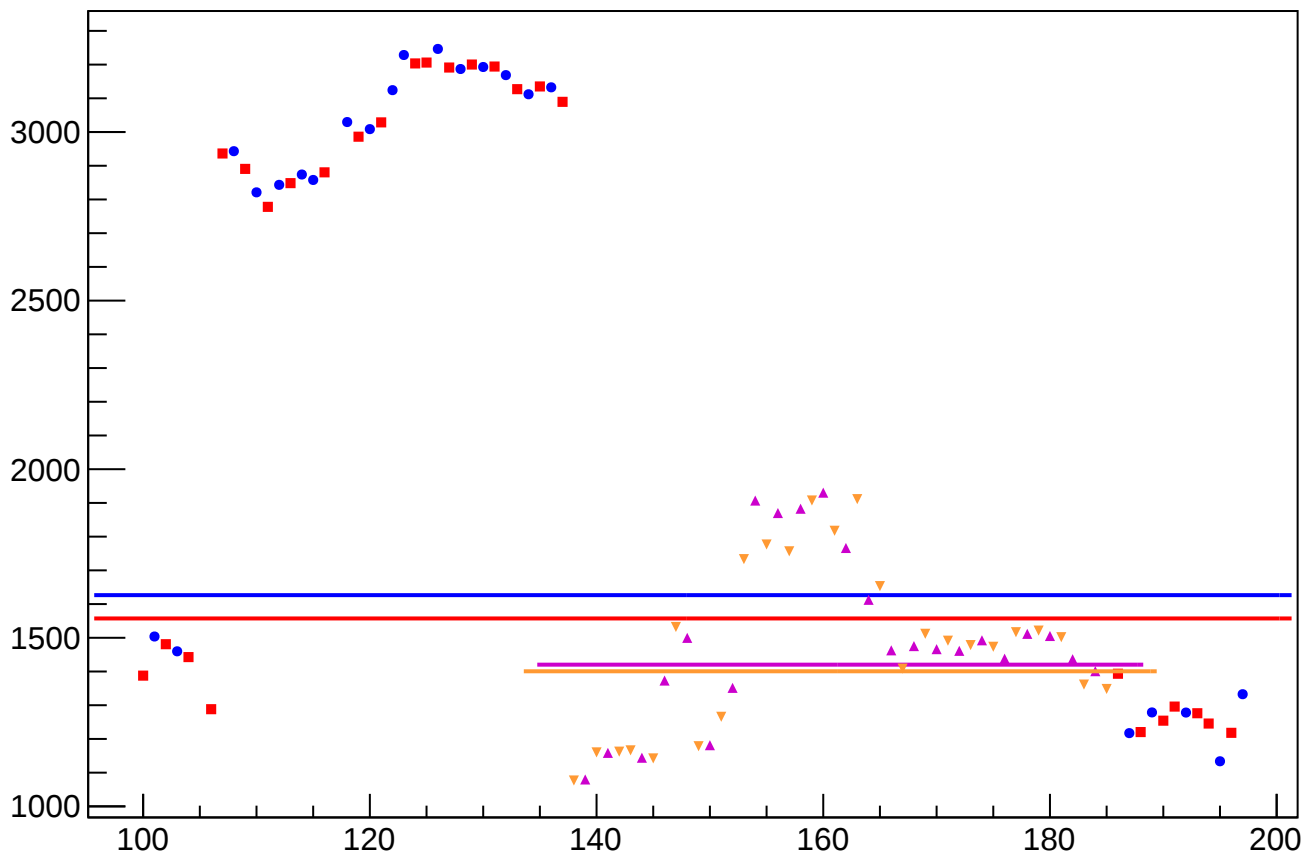
Right: -6.333 ± 0.374 χ^2/NDF : 1328.6/47

In: 1.224 ± 0.296 χ^2/NDF : 1170.0/44

Out: -7.036 ± 0.276 χ^2/NDF : 991.1/50

All: -3.183 ± 0.202 χ^2/NDF : 2577.9/95

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1626.493 ± 0.400 χ^2/NDF : 3098921.4/21

Left Out: 1400.637 ± 0.235 χ^2/NDF : 1037921.6/24

Right Out: 1557.339 ± 0.353 χ^2/NDF : 3249260.6/25

Left In: 1420.285 ± 0.245 χ^2/NDF : 905186.2/22

Left: 1410.037 ± 0.169 χ^2/NDF : 1946462.8/47

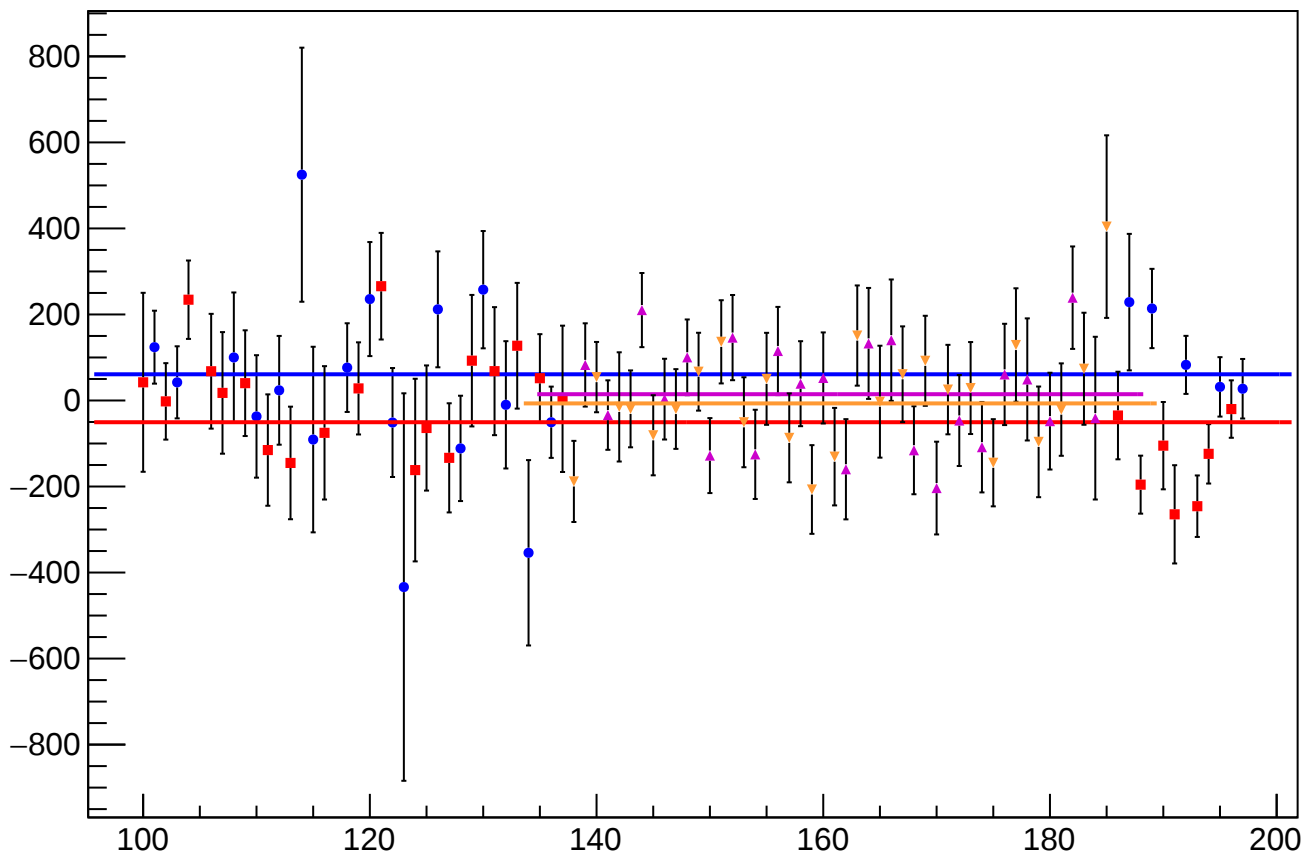
Right: 1587.586 ± 0.265 χ^2/NDF : 6364968.5/47

In: 1476.462 ± 0.209 χ^2/NDF : 4197127.0/44

Out: 1448.654 ± 0.195 χ^2/NDF : 4423864.2/50

All: 1461.627 ± 0.143 χ^2/NDF : 8630439.0/95

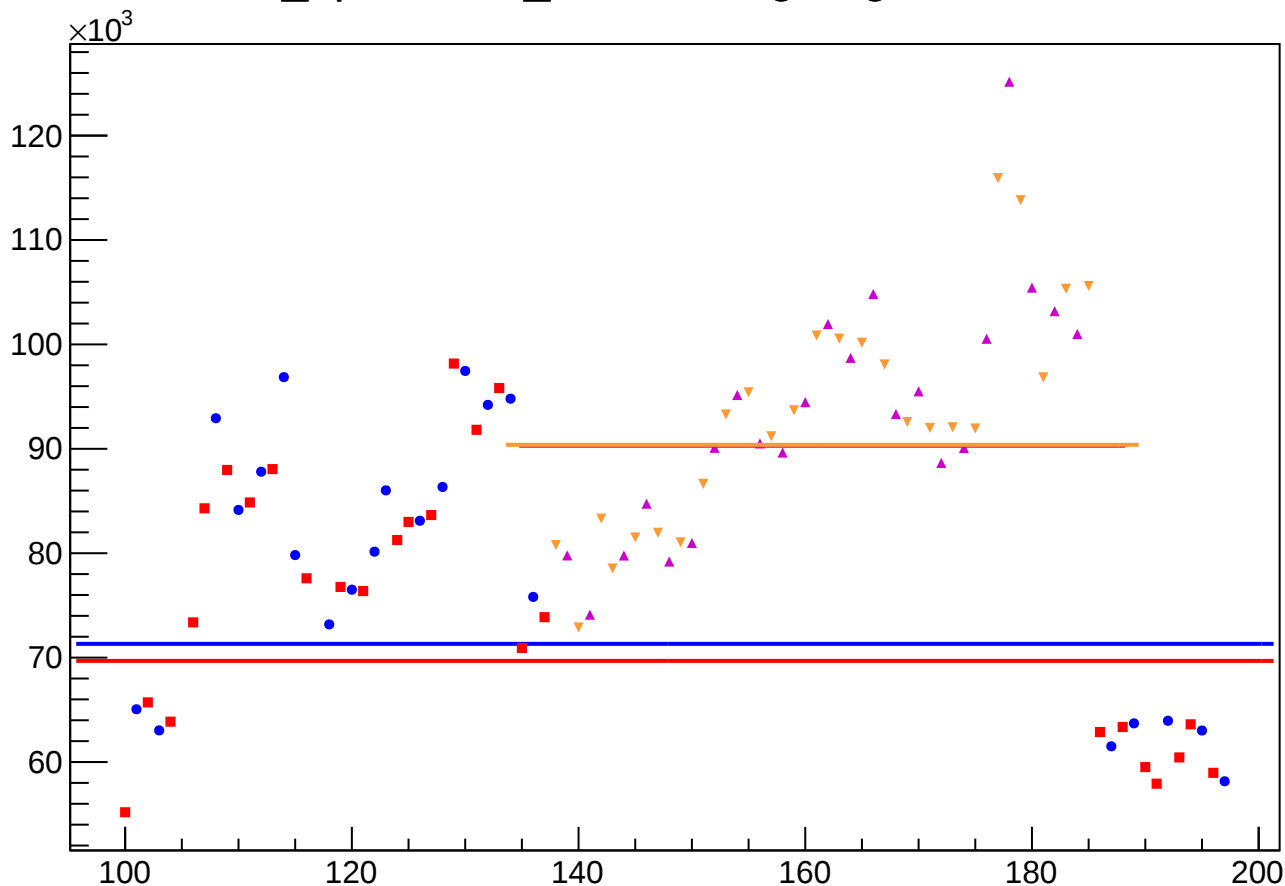
diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 60.912 $\pm$ 23.112 χ^2/NDF : 23.4/21
Left Out: -6.789 $\pm$ 21.213 χ^2/NDF :24.7/24
Right Out: -50.537 $\pm$ 20.987 χ^2/NDF : 41.7/25
Left In: 14.611 $\pm$ 21.846 χ^2/NDF :29.8/22

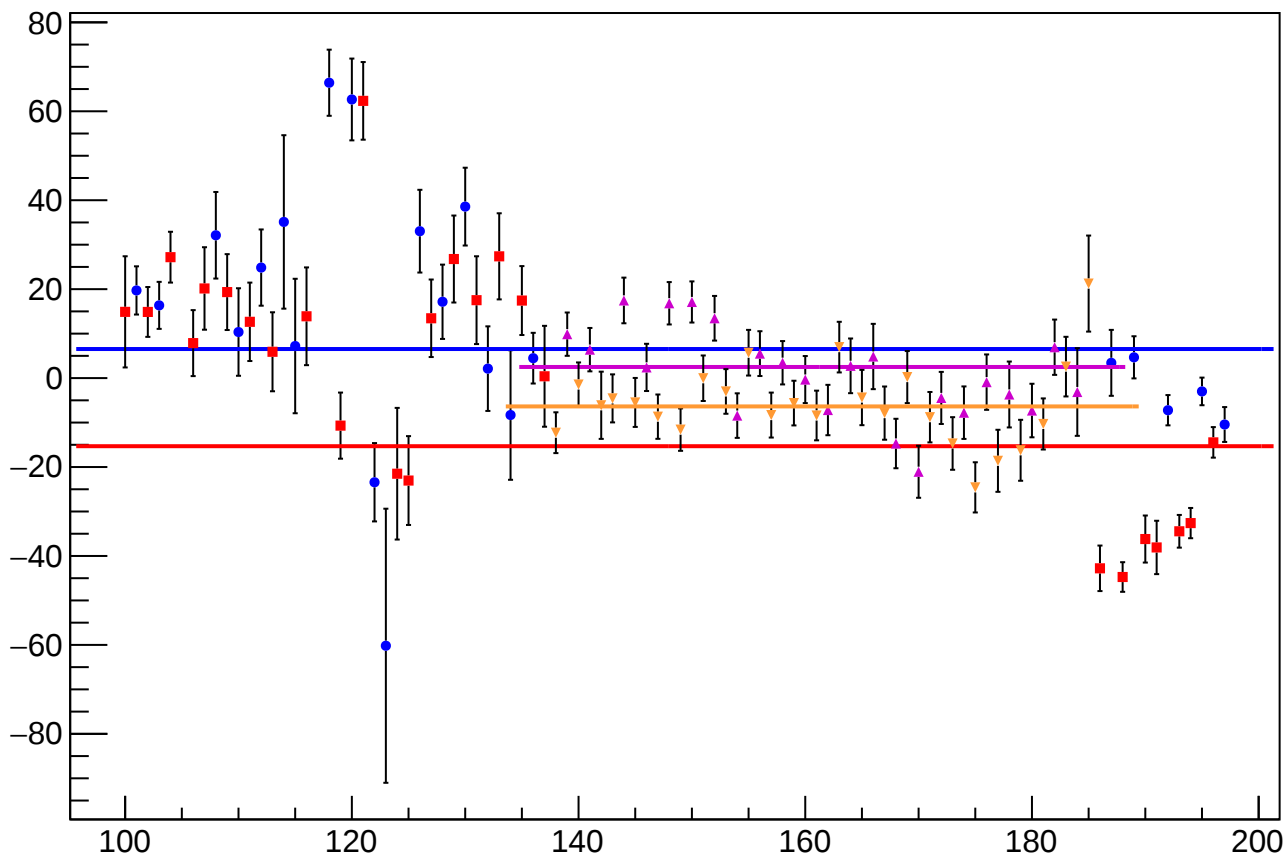
Left: 3.596 $\pm$ 15.219 χ^2/NDF : 55.0/47
Right: -0.170 $\pm$ 15.537 χ^2/NDF : 77.9/47
In: 36.459 $\pm$ 15.876 χ^2/NDF :55.4/44
Out: -28.898 $\pm$ 14.919 χ^2/NDF :68.6/50
All: 1.752 $\pm$ 10.872 χ^2/NDF : 132.9/95

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 71319.257 $\pm$ 16.342	χ^2/NDF : 498137.4/21	Left: 90340.563 $\pm$ 10.761	χ^2/NDF : 923003.7/47
Left Out: 90384.853 $\pm$ 15.000	χ^2/NDF : 461648.2/24	Right: 70424.991 $\pm$ 10.986	χ^2/NDF : 1073744.1/47
Right Out: 69687.603 $\pm$ 14.840	χ^2/NDF : 570143.2/25	In: 81340.056 $\pm$ 11.226	χ^2/NDF : 1671413.1/44
Left In: 90293.591 $\pm$ 15.448	χ^2/NDF : 461337.5/22	Out: 79925.147 $\pm$ 10.549	χ^2/NDF : 1993963.2/50
		All: 80588.682 $\pm$ 7.688	χ^2/NDF : 3673812.1/9

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 6.538 $\pm$ 1.338 χ^2/NDF : 210.8/21

Left Out: -6.370 $\pm$ 1.124 χ^2/NDF : 45.5/24

Right Out: -15.316 $\pm$ 1.197 χ^2/NDF : 503.6/25

Left In: 2.501 $\pm$ 1.156 χ^2/NDF : 78.4/22

Left: -2.059 $\pm$ 0.806 χ^2/NDF : 154.1/47

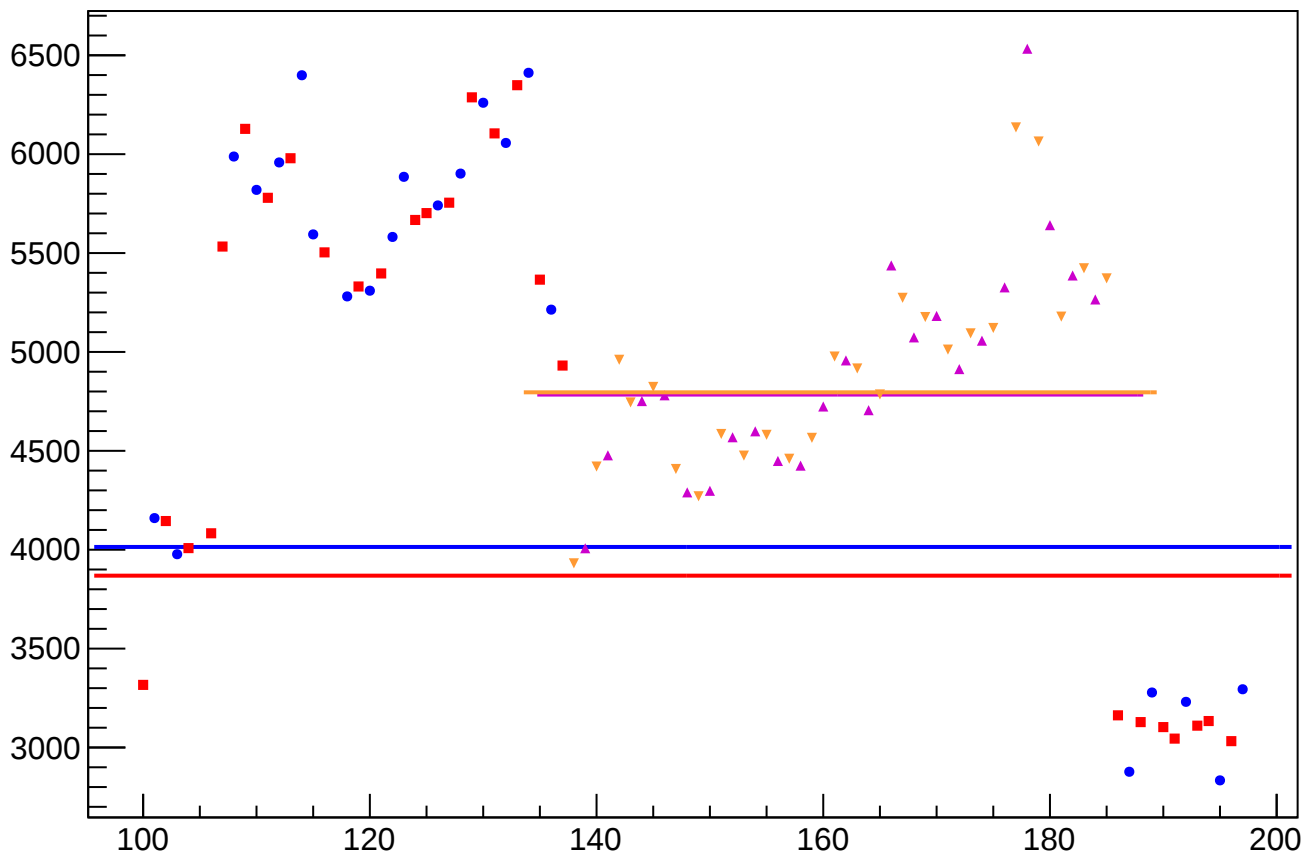
Right: -5.601 $\pm$ 0.892 χ^2/NDF : 862.6/47

In: 4.226 $\pm$ 0.875 χ^2/NDF : 294.5/44

Out: -10.561 $\pm$ 0.819 χ^2/NDF : 578.8/50

All: -3.650 $\pm$ 0.598 χ^2/NDF : 1025.4/95

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4013.999 ± 0.946 $\chi^2/\text{NDF}: 1569637.8/21$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 3868.831 ± 0.846 $\chi^2/\text{NDF}: 1758253.0/25$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

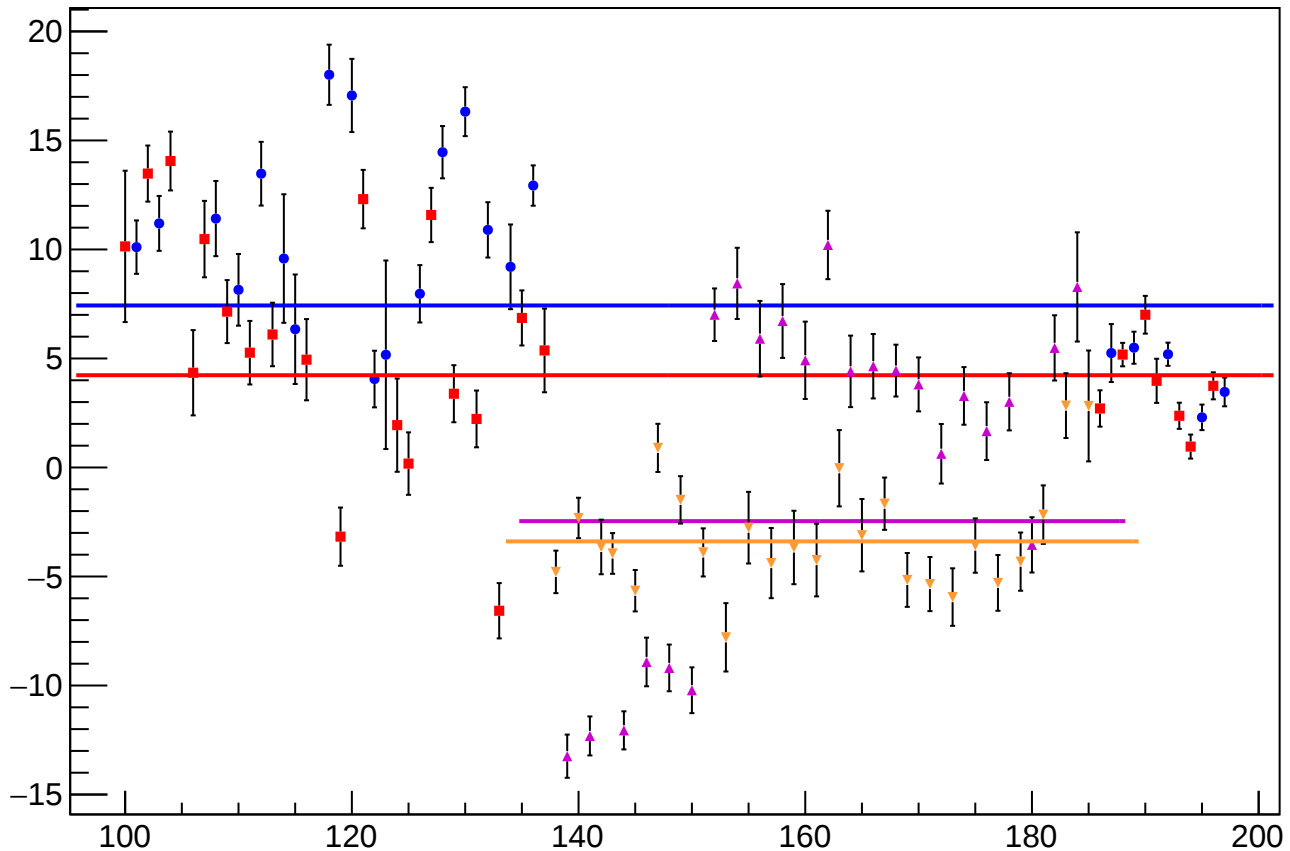
Right: 3933.364 ± 0.631 $\chi^2/\text{NDF}: 3340965.6/47$

In: 4455.203 ± 0.619 $\chi^2/\text{NDF}: 2306821.1/44$

Out: 4361.552 ± 0.579 $\chi^2/\text{NDF}: 2756989.5/50$

All: 4405.319 ± 0.423 $\chi^2/\text{NDF}: 5076021.5/95$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 7.431 ± 0.226 $\chi^2/\text{NDF}: 417.0/21$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 4.232 ± 0.202 $\chi^2/\text{NDF}: 379.9/25$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

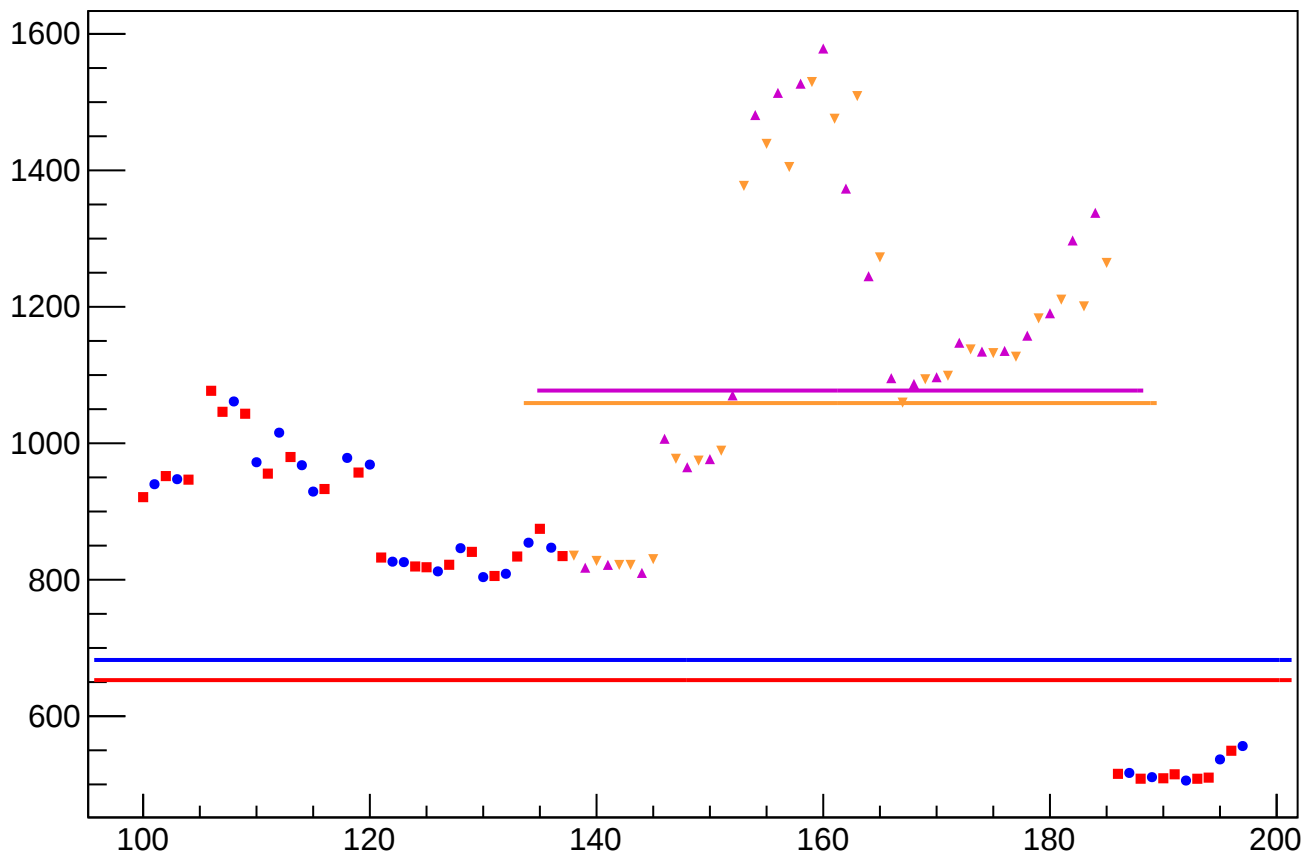
Right: 5.650 ± 0.151 $\chi^2/\text{NDF}: 908.4/47$

In: 3.254 ± 0.172 $\chi^2/\text{NDF}: 2153.7/44$

Out: 1.259 ± 0.158 $\chi^2/\text{NDF}: 1014.4/50$

All: 2.170 ± 0.116 $\chi^2/\text{NDF}: 3241.4/95$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 682.401 $\pm$ 0.160 χ^2 /NDF: 1392688.8/21

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF:1403222.2/24

Right Out: 652.872 $\pm$ 0.143 χ^2 /NDF: 1789755.3/25

Left In: 1077.284 $\pm$ 0.187 χ^2 /NDF:1280349.9/22

Left: 1067.683 $\pm$ 0.129 χ^2 /NDF: 2688612.0/47

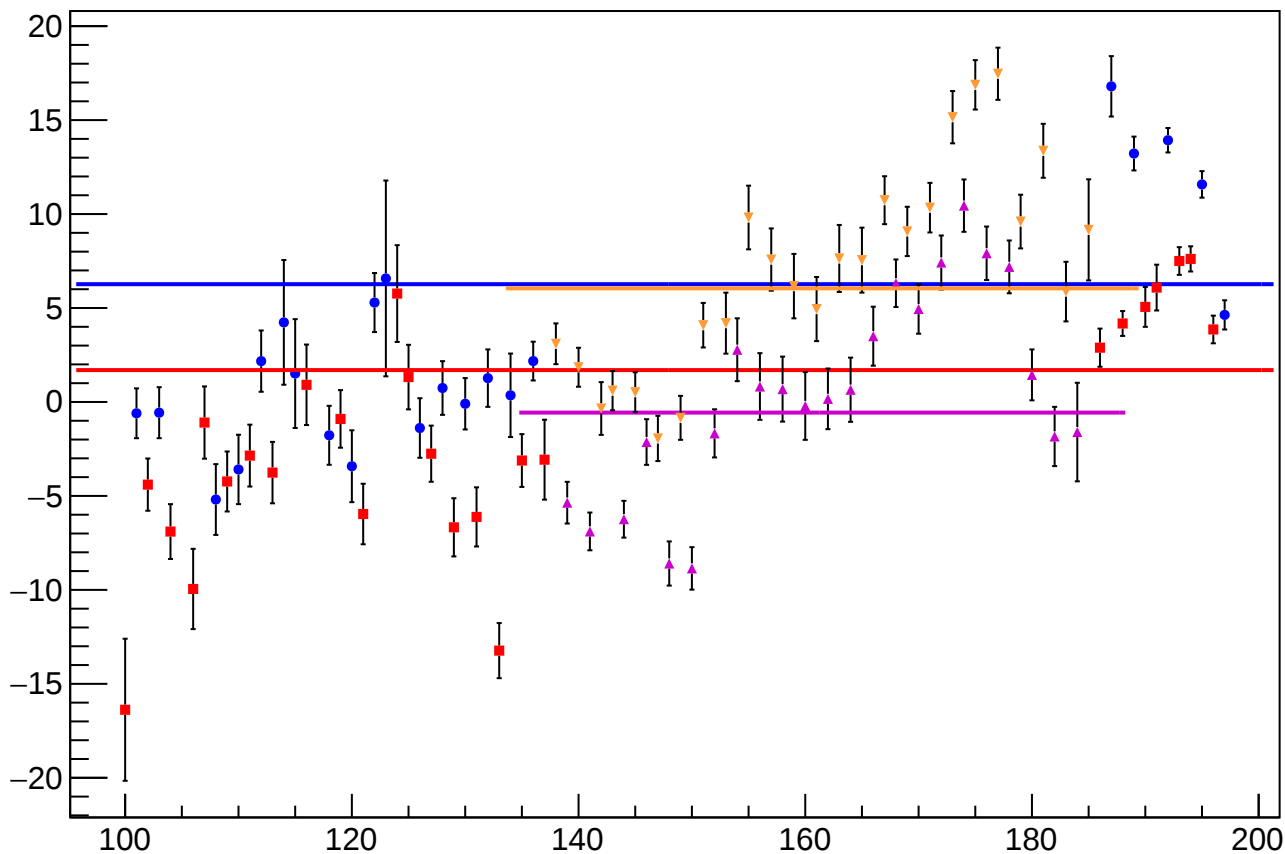
Right: 665.965 $\pm$ 0.106 χ^2 /NDF: 3201445.1/47

In: 849.158 $\pm$ 0.121 χ^2 /NDF:5250925.9/44

Out: 811.266 $\pm$ 0.111 χ^2 /NDF:6354066.6/50

All: 828.576 $\pm$ 0.082 χ^2 /NDF: 11657845.2/95

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 6.268 $\pm$ 0.267 χ^2 /NDF: 574.9/21

Left Out: 6.045 $\pm$ 0.272 χ^2 /NDF: 430.8/24

Right Out: 1.696 $\pm$ 0.240 χ^2 /NDF: 539.5/25

Left In: -0.566 $\pm$ 0.284 χ^2 /NDF: 417.0/22

Left: 2.888 $\pm$ 0.196 χ^2 /NDF: 1130.7/47

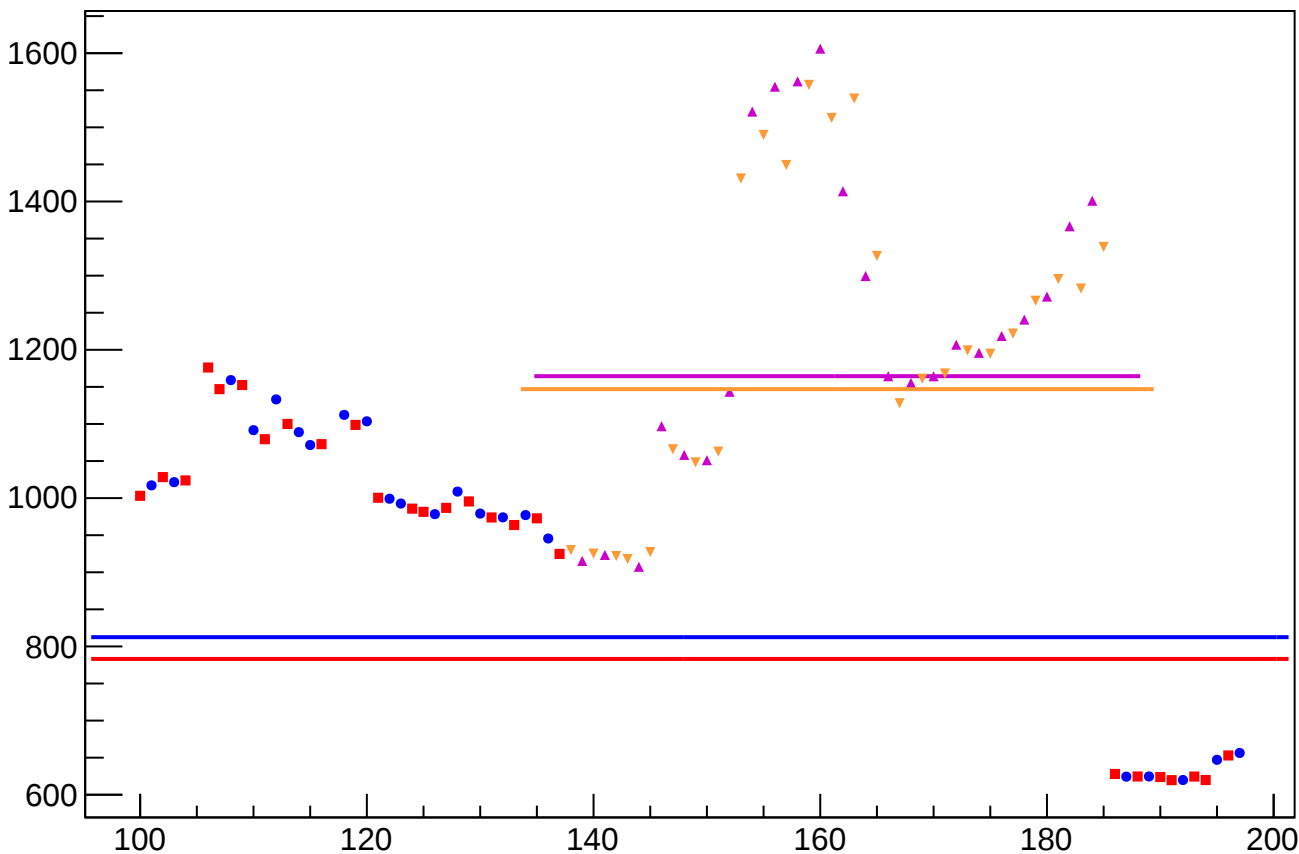
Right: 3.737 $\pm$ 0.178 χ^2 /NDF: 1276.6/47

In: 3.063 $\pm$ 0.195 χ^2 /NDF: 1299.1/44

Out: 3.601 $\pm$ 0.180 χ^2 /NDF: 1114.3/50

All: 3.353 $\pm$ 0.132 χ^2 /NDF: 2417.5/95

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 812.490 $\pm$ 0.189 χ^2 /NDF: 1101629.3/21

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 783.154 $\pm$ 0.170 χ^2 /NDF: 1402784.7/25

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF:944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2 /NDF: 1993824.0/47

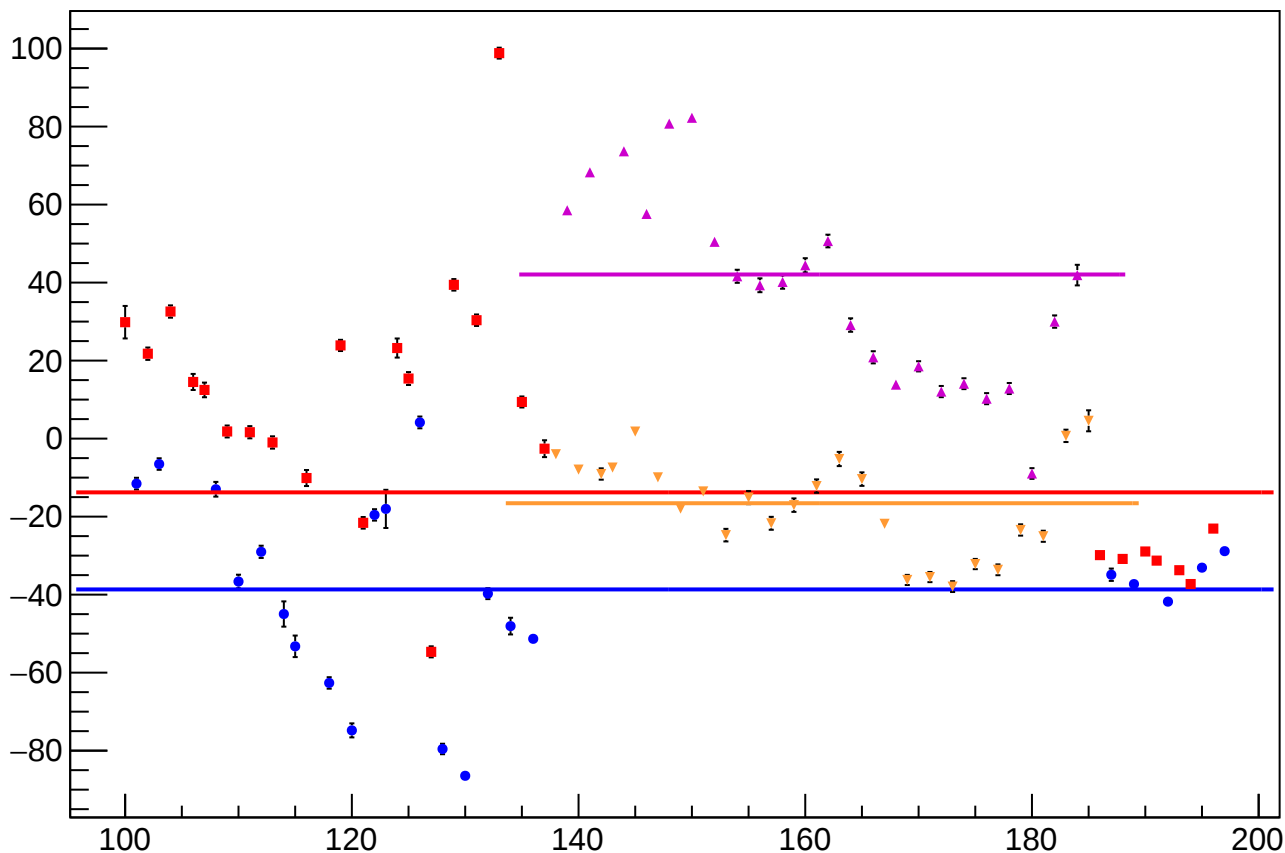
Right: 796.251 $\pm$ 0.126 χ^2 /NDF: 2517777.5/47

In: 977.548 $\pm$ 0.138 χ^2 /NDF:3675273.2/44

Out: 942.473 $\pm$ 0.127 χ^2 /NDF:4464480.1/50

All: 958.627 $\pm$ 0.093 χ^2 /NDF: 8174812.5/95

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -38.666 ± 0.262 $\chi^2/\text{NDF}: 5439.8/21$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: -13.782 ± 0.234 $\chi^2/\text{NDF}: 16798.3/25$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

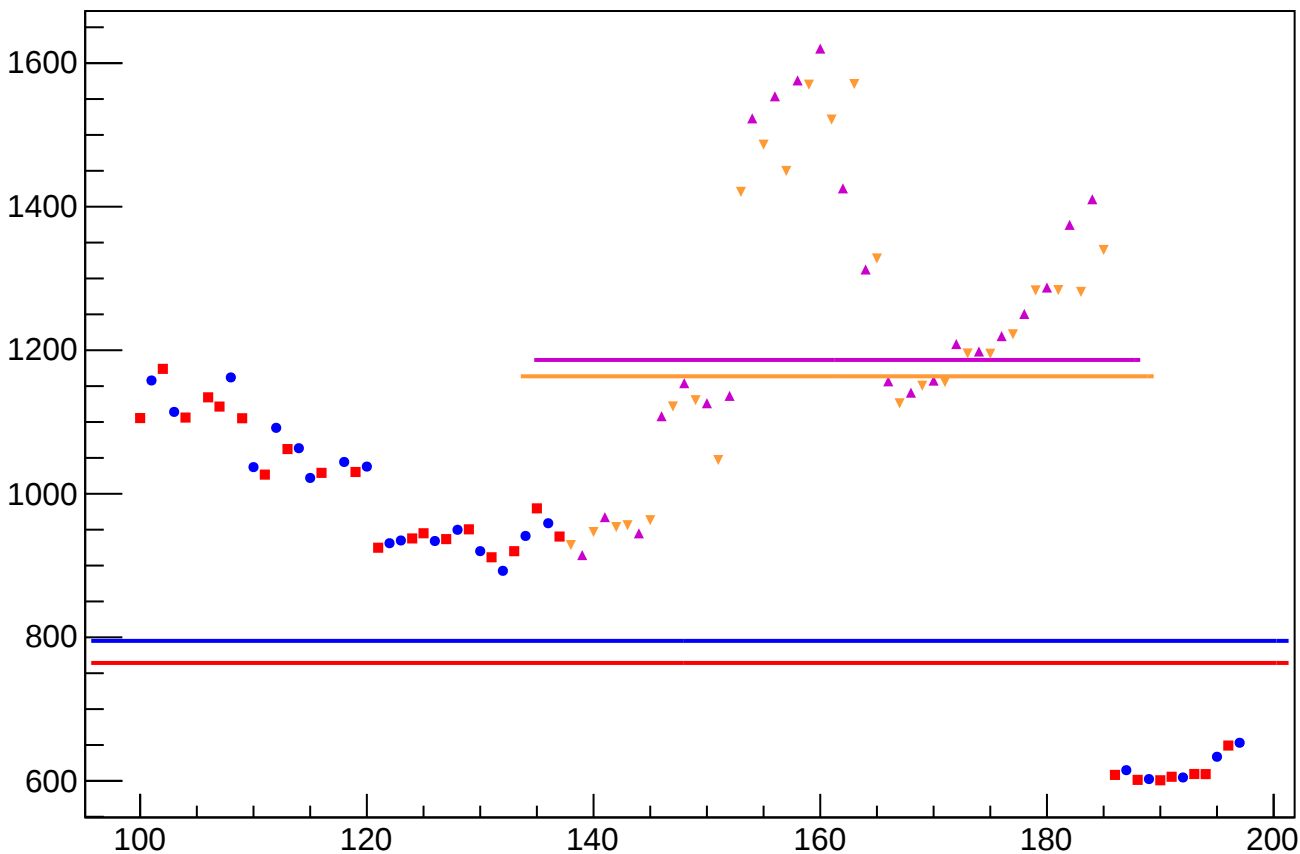
Right: -24.858 ± 0.174 $\chi^2/\text{NDF}: 27260.7/47$

In: -2.323 ± 0.194 $\chi^2/\text{NDF}: 56667.3/44$

Out: -14.952 ± 0.178 $\chi^2/\text{NDF}: 18788.9/50$

All: -9.164 ± 0.131 $\chi^2/\text{NDF}: 77752.9/95$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 795.063 $\pm$ 0.185 χ^2 /NDF: 1144435.9/21

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 764.320 $\pm$ 0.166 χ^2 /NDF: 1449271.9/25

Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

Left: 1174.525 $\pm$ 0.141 χ^2 /NDF: 1776015.7/47

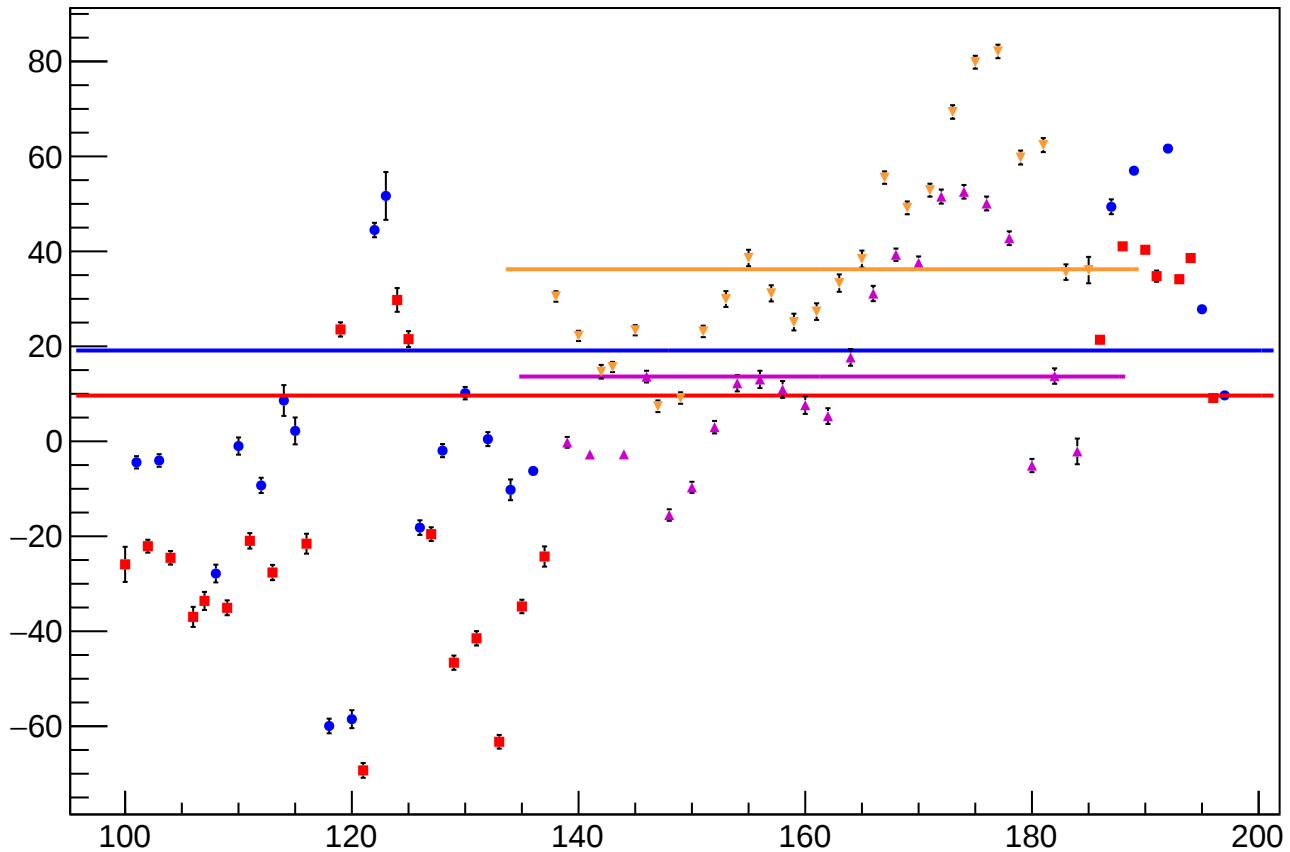
Right: 778.004 $\pm$ 0.123 χ^2 /NDF: 2609041.1/47

In: 971.242 $\pm$ 0.137 χ^2 /NDF: 3993910.6/44

Out: 932.066 $\pm$ 0.126 χ^2 /NDF: 4827115.0/50

All: 950.020 $\pm$ 0.093 χ^2 /NDF: 8865227.5/95

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 19.126+/-0.260 χ^2/NDF : 15351.5/21

Left Out: 36.234+/-0.280 χ^2/NDF : 5794.2/24

Right Out: 9.636+/-0.233 χ^2/NDF : 20749.3/25

Left In: 13.640+/-0.293 χ^2/NDF : 5178.0/22

Left: 25.447+/-0.202 χ^2/NDF : 14084.0/47

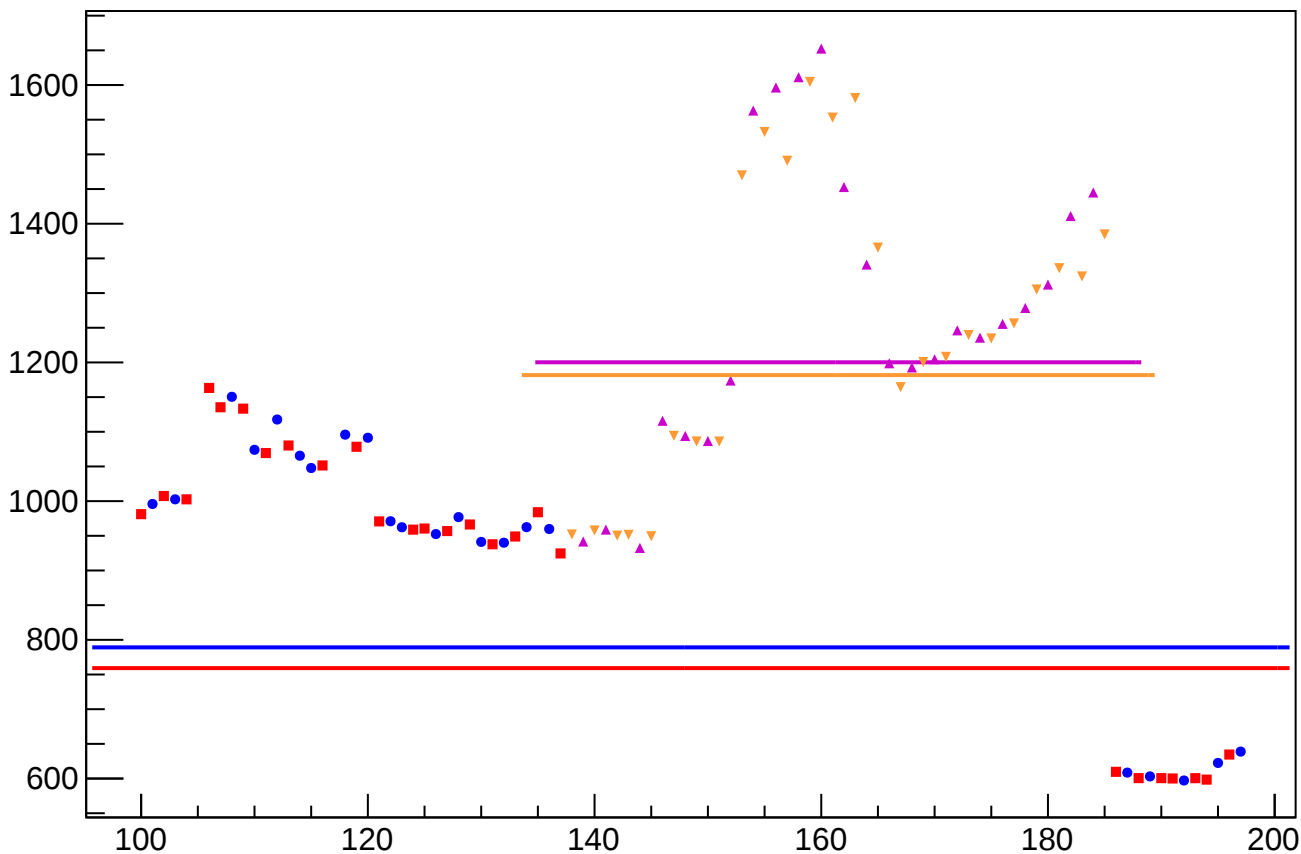
Right: 13.864+/-0.173 χ^2/NDF : 36840.3/47

In: 16.709+/-0.194 χ^2/NDF : 20725.9/44

Out: 20.520+/-0.179 χ^2/NDF : 31879.4/50

All: 18.771+/-0.132 χ^2/NDF : 52813.3/95

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 789.132 $\pm$ 0.184 χ^2/NDF : 1179081.4/21

Left Out: 1181.732 $\pm$ 0.198 χ^2/NDF : 1043520.8/24

Right Out: 759.225 $\pm$ 0.165 χ^2/NDF : 1495074.7/25

Left In: 1200.198 $\pm$ 0.207 χ^2/NDF : 938224.7/22

Left: 1190.549 $\pm$ 0.143 χ^2/NDF : 1985902.3/47

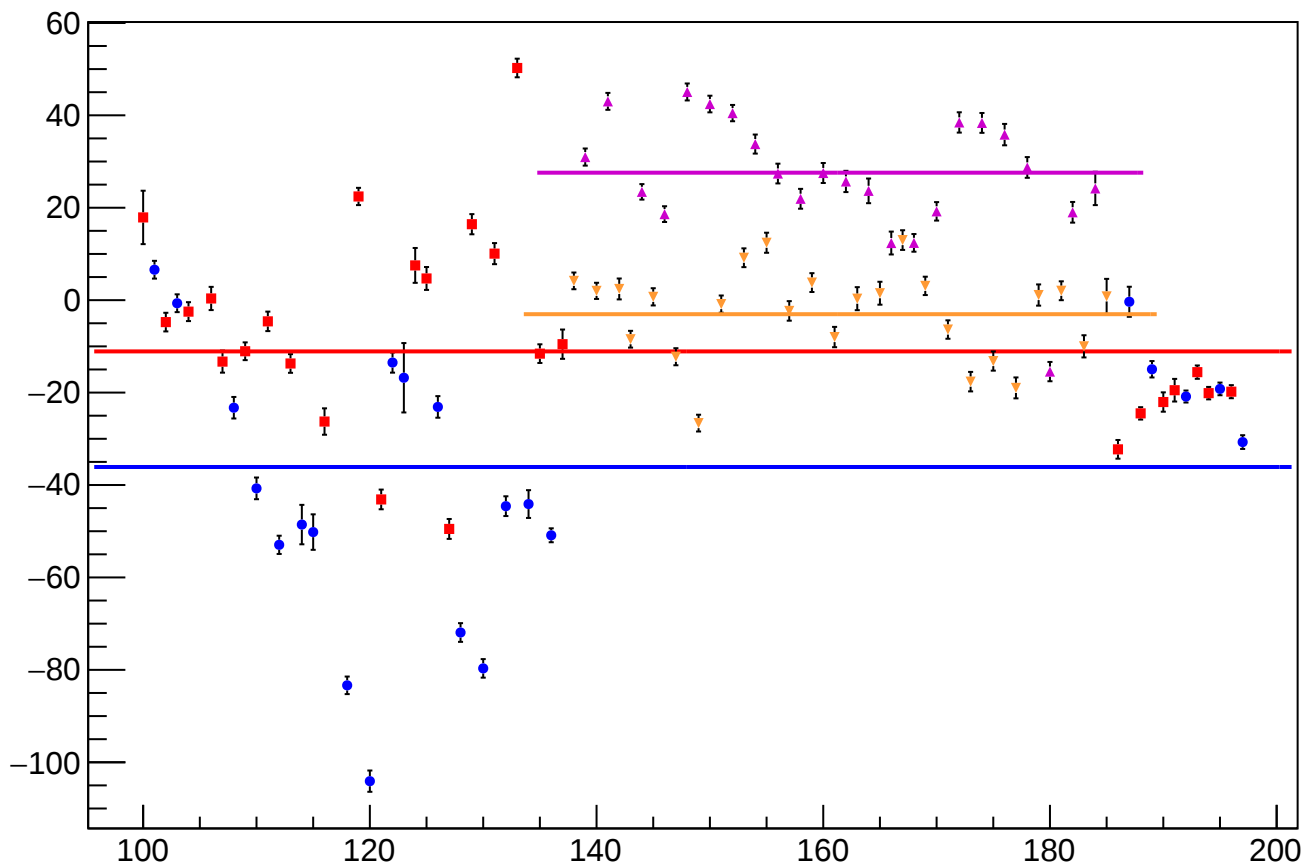
Right: 772.550 $\pm$ 0.123 χ^2/NDF : 2688846.1/47

In: 970.238 $\pm$ 0.137 χ^2/NDF : 4322632.6/44

Out: 932.119 $\pm$ 0.127 χ^2/NDF : 5231409.1/50

All: 949.618 $\pm$ 0.093 χ^2/NDF : 9595661.8/95

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -36.101 ± 0.430 χ^2/NDF : 4063.3/21

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -11.089 ± 0.396 χ^2/NDF : 2558.3/25

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

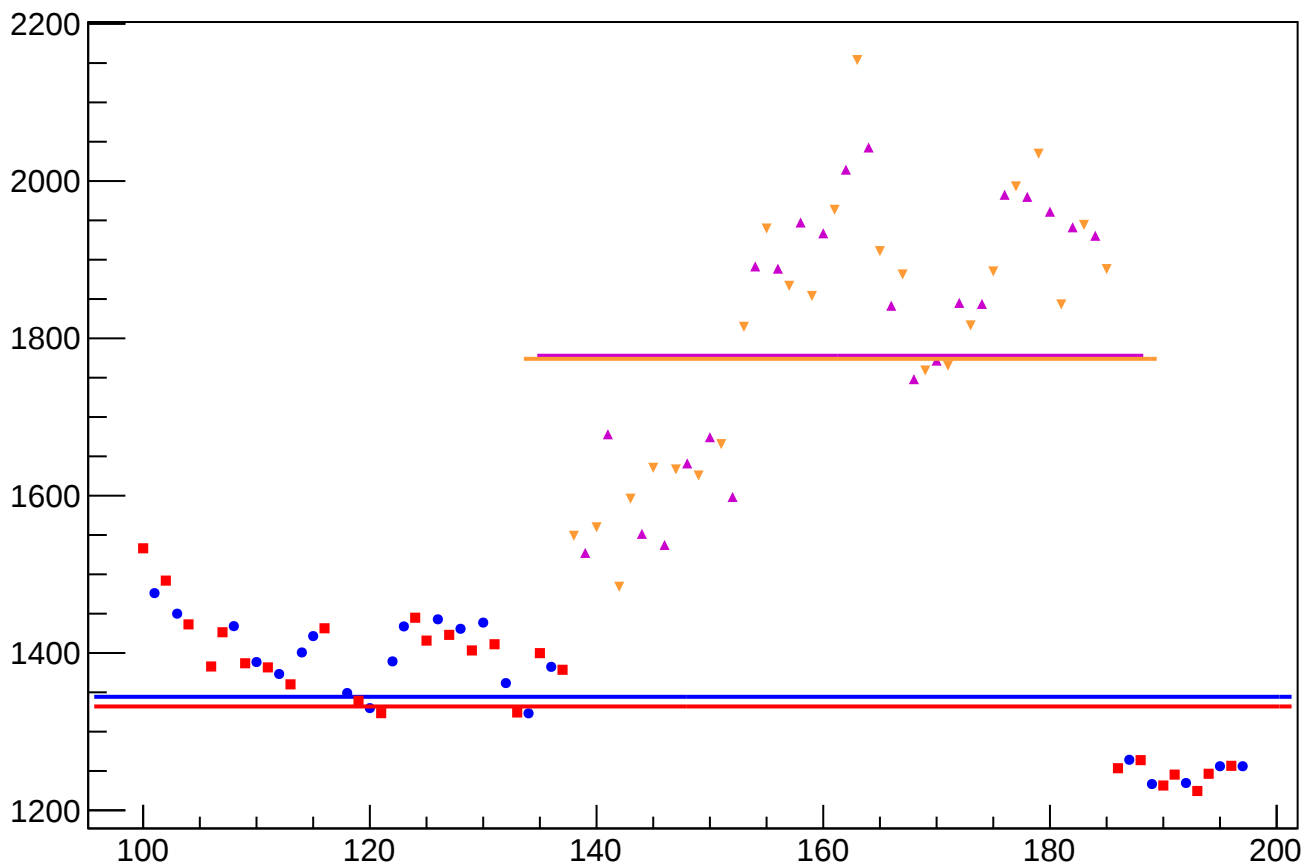
Right: -22.562 ± 0.291 χ^2/NDF : 8454.5/47

In: -4.199 ± 0.304 χ^2/NDF : 16019.7/44

Out: -7.256 ± 0.286 χ^2/NDF : 3311.1/50

All: -5.817 ± 0.208 χ^2/NDF : 19384.4/95

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1344.297 $\pm$ 0.304 χ^2 /NDF: 73662.8/21

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1332.010 $\pm$ 0.280 χ^2 /NDF: 84800.2/25

Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2 /NDF: 612631.3/47

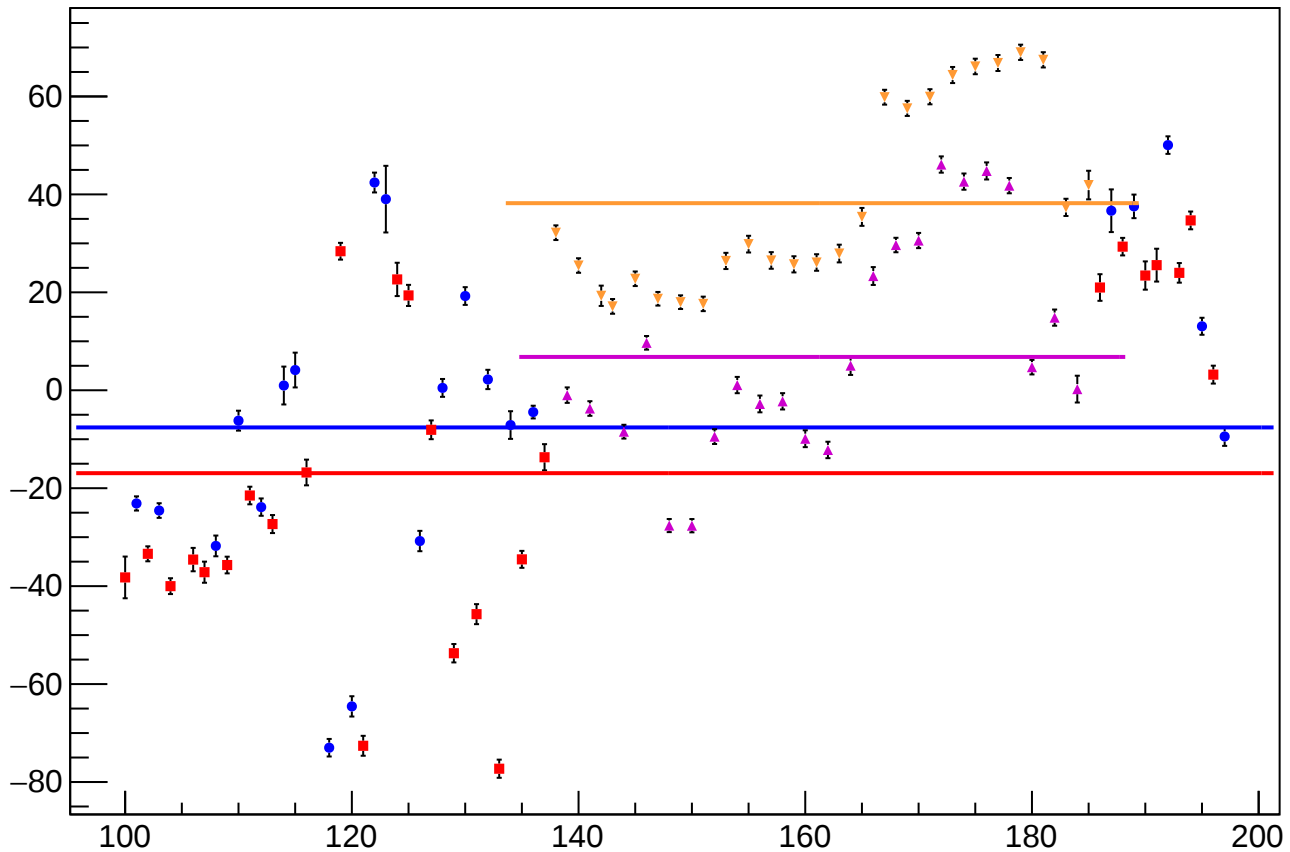
Right: 1337.646 $\pm$ 0.206 χ^2 /NDF: 159347.7/47

In: 1561.498 $\pm$ 0.215 χ^2 /NDF: 1392637.5/44

Out: 1542.414 $\pm$ 0.203 χ^2 /NDF: 1585737.1/50

All: 1551.399 $\pm$ 0.147 χ^2 /NDF: 2982555.1/95

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -7.590 ± 0.422 χ^2/NDF : 5245.3/21

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -16.930 ± 0.398 χ^2/NDF : 6843.4/25

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

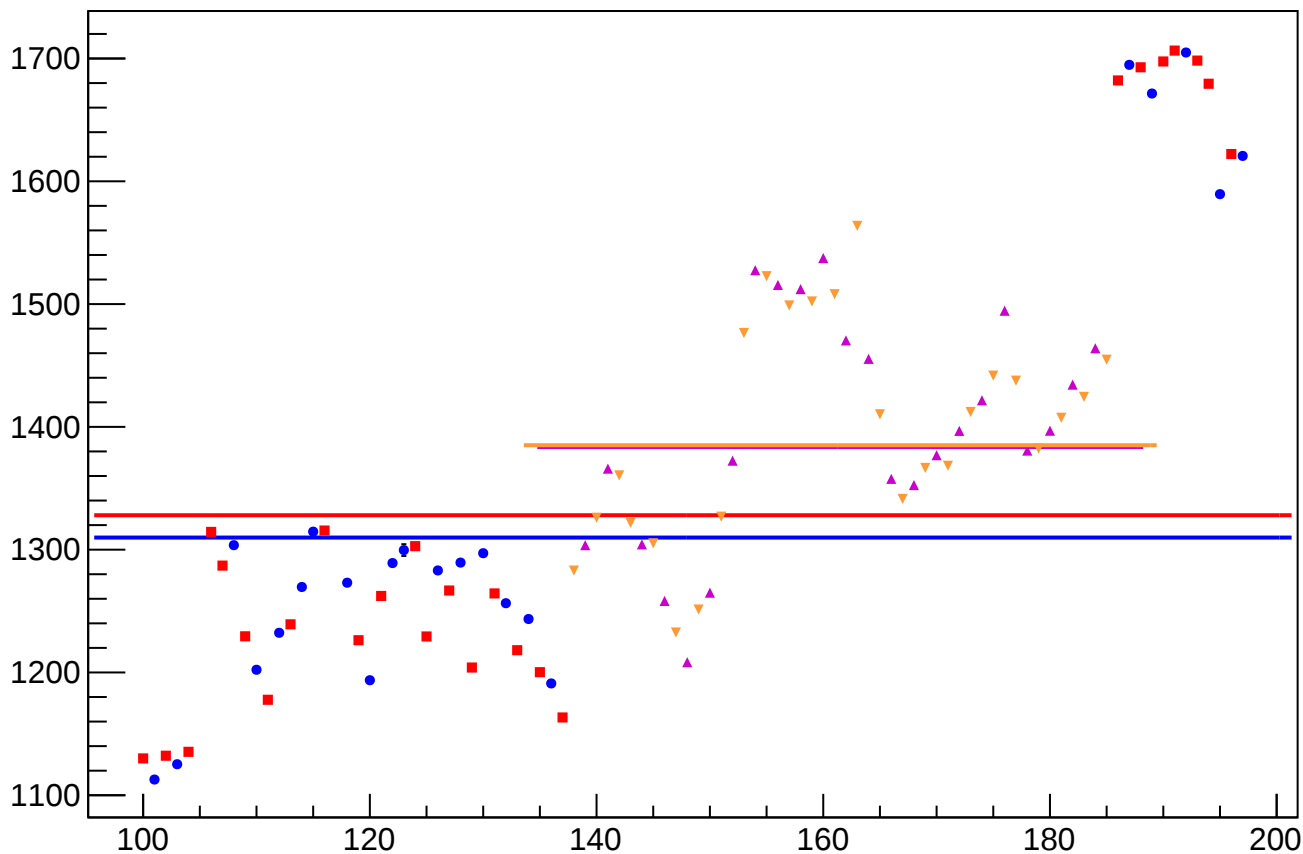
Right: -12.529 ± 0.290 χ^2/NDF : 12347.6/47

In: 1.286 ± 0.261 χ^2/NDF : 10457.0/44

Out: 16.314 ± 0.251 χ^2/NDF : 21900.7/50

All: 9.103 ± 0.181 χ^2/NDF : 34076.4/95

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1309.863 ± 0.298 $\chi^2/\text{NDF}: 366790.7/21$

Left Out: 1385.063 ± 0.229 $\chi^2/\text{NDF}: 146001.5/24$

Right Out: 1328.039 ± 0.282 $\chi^2/\text{NDF}: 513323.4/25$

Left In: 1383.558 ± 0.235 $\chi^2/\text{NDF}: 154696.0/22$

Left: 1384.333 ± 0.164 $\chi^2/\text{NDF}: 300718.5/47$

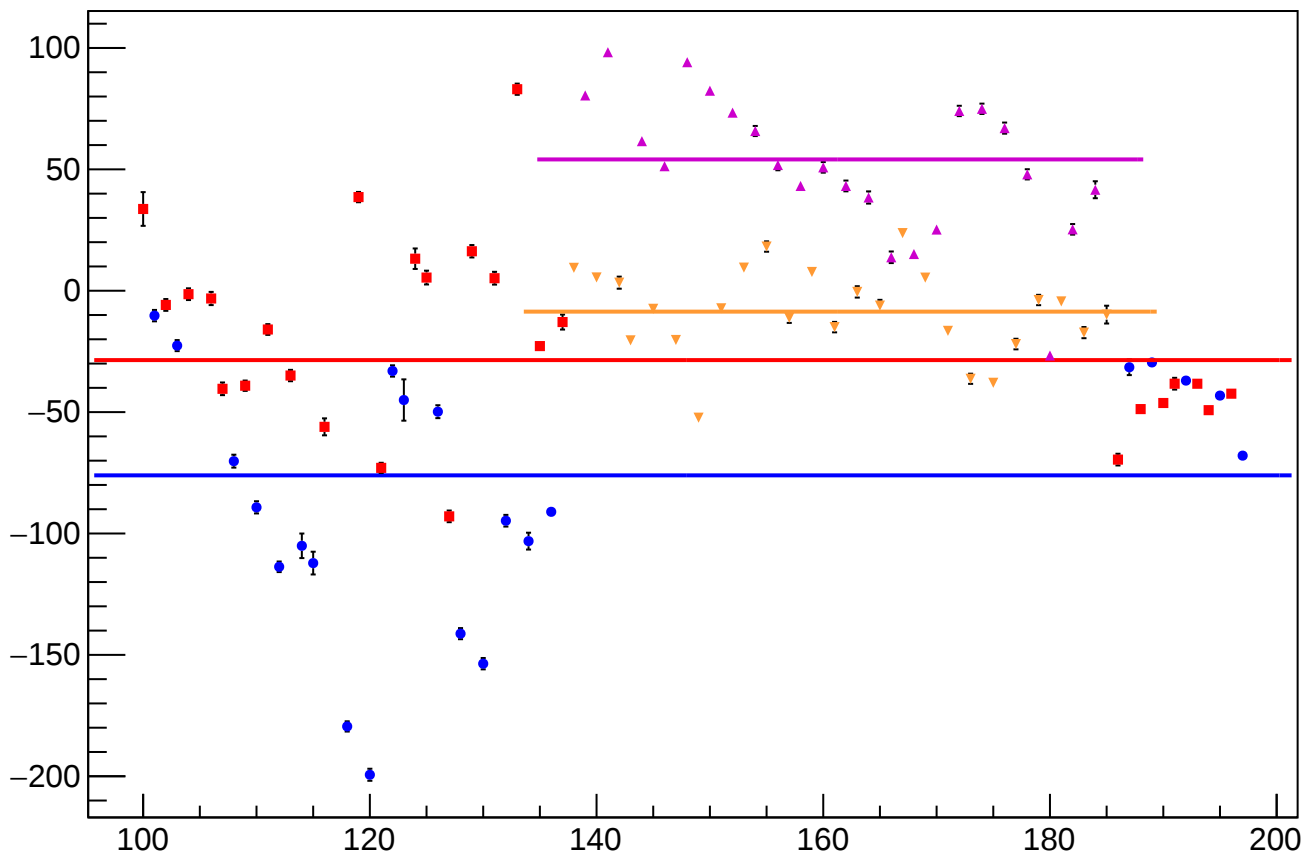
Right: 1319.474 ± 0.205 $\chi^2/\text{NDF}: 882074.8/47$

In: 1355.291 ± 0.185 $\chi^2/\text{NDF}: 559060.7/44$

Out: 1362.421 ± 0.178 $\chi^2/\text{NDF}: 684019.6/50$

All: 1359.000 ± 0.128 $\chi^2/\text{NDF}: 1243853.9/95$

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -76.050 $\pm$ 0.469 χ^2 /NDF: 11488.3/21

Left Out: -8.606 $\pm$ 0.410 χ^2 /NDF:1930.5/24

Right Out: -28.572 $\pm$ 0.428 χ^2 /NDF: 6708.4/25

Left In: 54.089 $\pm$ 0.426 χ^2 /NDF:4721.6/22

Left: 21.586 $\pm$ 0.295 χ^2 /NDF: 17900.0/47

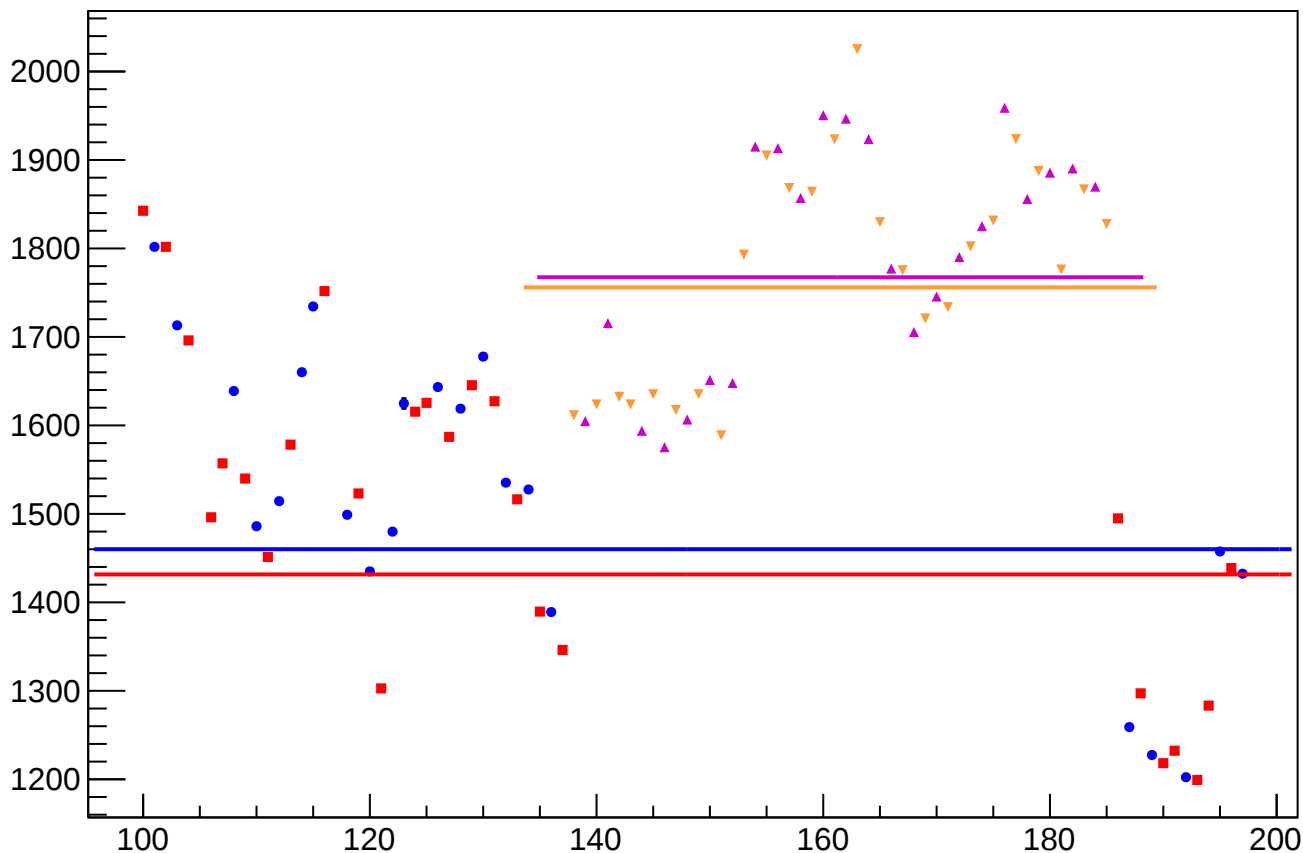
Right: -50.112 $\pm$ 0.316 χ^2 /NDF: 23790.5/47

In: -4.661 $\pm$ 0.315 χ^2 /NDF:58411.4/44

Out: -18.176 $\pm$ 0.296 χ^2 /NDF:9774.4/50

All: -11.843 $\pm$ 0.216 χ^2 /NDF: 69162.5/95

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1460.073 ± 0.332 $\chi^2/\text{NDF}: 258951.4/21$

Left Out: 1756.034 ± 0.290 $\chi^2/\text{NDF}: 175762.3/24$

Right Out: 1431.579 ± 0.302 $\chi^2/\text{NDF}: 307526.1/25$

Left In: 1767.410 ± 0.301 $\chi^2/\text{NDF}: 187958.2/22$

Left: 1761.512 ± 0.209 $\chi^2/\text{NDF}: 364461.2/47$

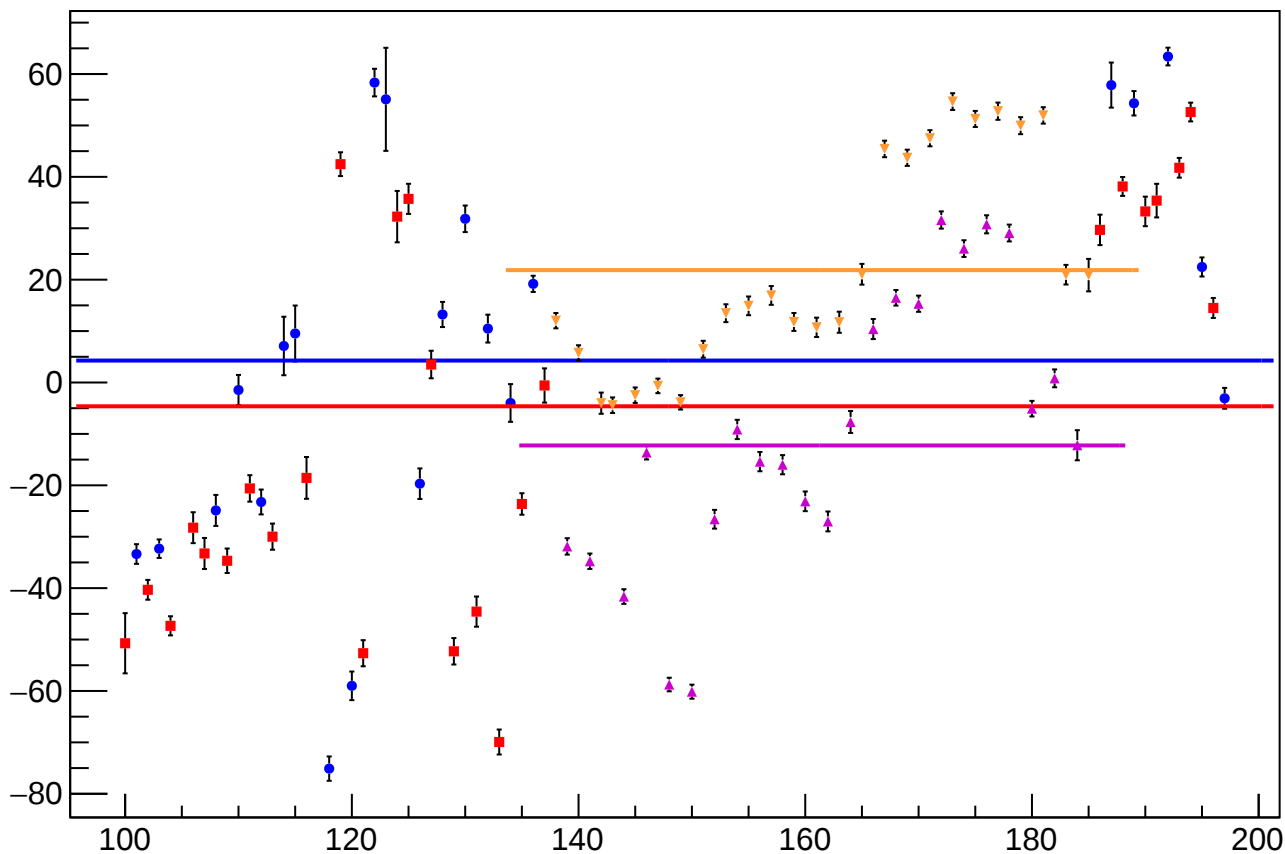
Right: 1444.507 ± 0.223 $\chi^2/\text{NDF}: 570507.2/47$

In: 1628.667 ± 0.223 $\chi^2/\text{NDF}: 917643.2/44$

Out: 1600.525 ± 0.209 $\chi^2/\text{NDF}: 1082951.4/50$

All: 1613.711 ± 0.153 $\chi^2/\text{NDF}: 2009064.8/95$

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 4.270 ± 0.524 $\chi^2/\text{NDF}: 5270.0/21$

Left Out: 21.856 ± 0.335 $\chi^2/\text{NDF}: 4110.5/24$

Right Out: -4.629 ± 0.488 $\chi^2/\text{NDF}: 6420.5/25$

Left In: -12.246 ± 0.347 $\chi^2/\text{NDF}: 6781.6/22$

Left: 5.391 ± 0.241 $\chi^2/\text{NDF}: 15885.7/47$

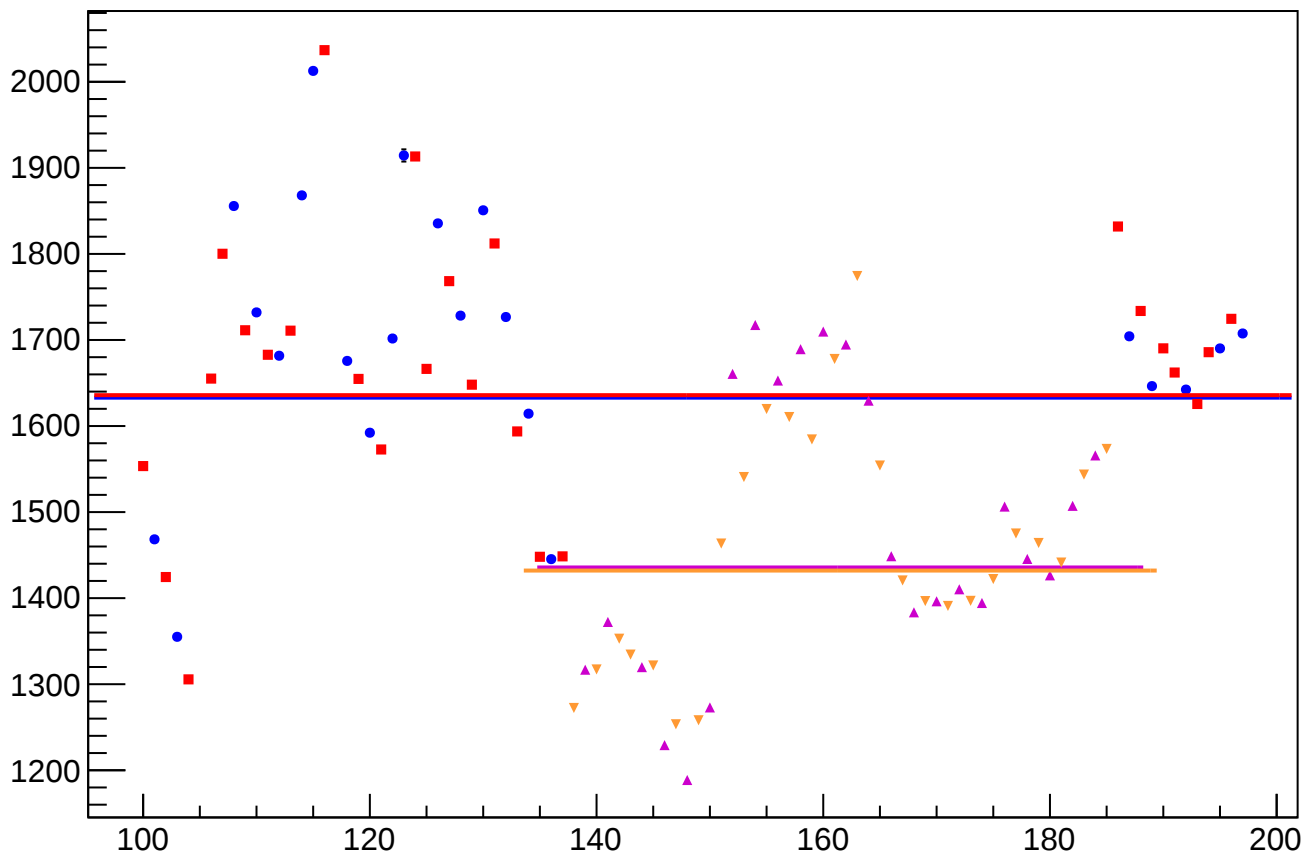
Right: -0.499 ± 0.357 $\chi^2/\text{NDF}: 11845.1/47$

In: -7.211 ± 0.289 $\chi^2/\text{NDF}: 12742.1/44$

Out: 13.353 ± 0.276 $\chi^2/\text{NDF}: 12533.9/50$

All: 3.545 ± 0.200 $\chi^2/\text{NDF}: 27917.7/95$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1632.990 ± 0.371 $\chi^2/\text{NDF}: 155995.8/21$

Left Out: 1432.060 ± 0.237 $\chi^2/\text{NDF}: 297360.3/24$

Right Out: 1635.865 ± 0.345 $\chi^2/\text{NDF}: 181267.7/25$

Left In: 1435.645 ± 0.245 $\chi^2/\text{NDF}: 420835.0/22$

Left: 1433.791 ± 0.171 $\chi^2/\text{NDF}: 718305.7/47$

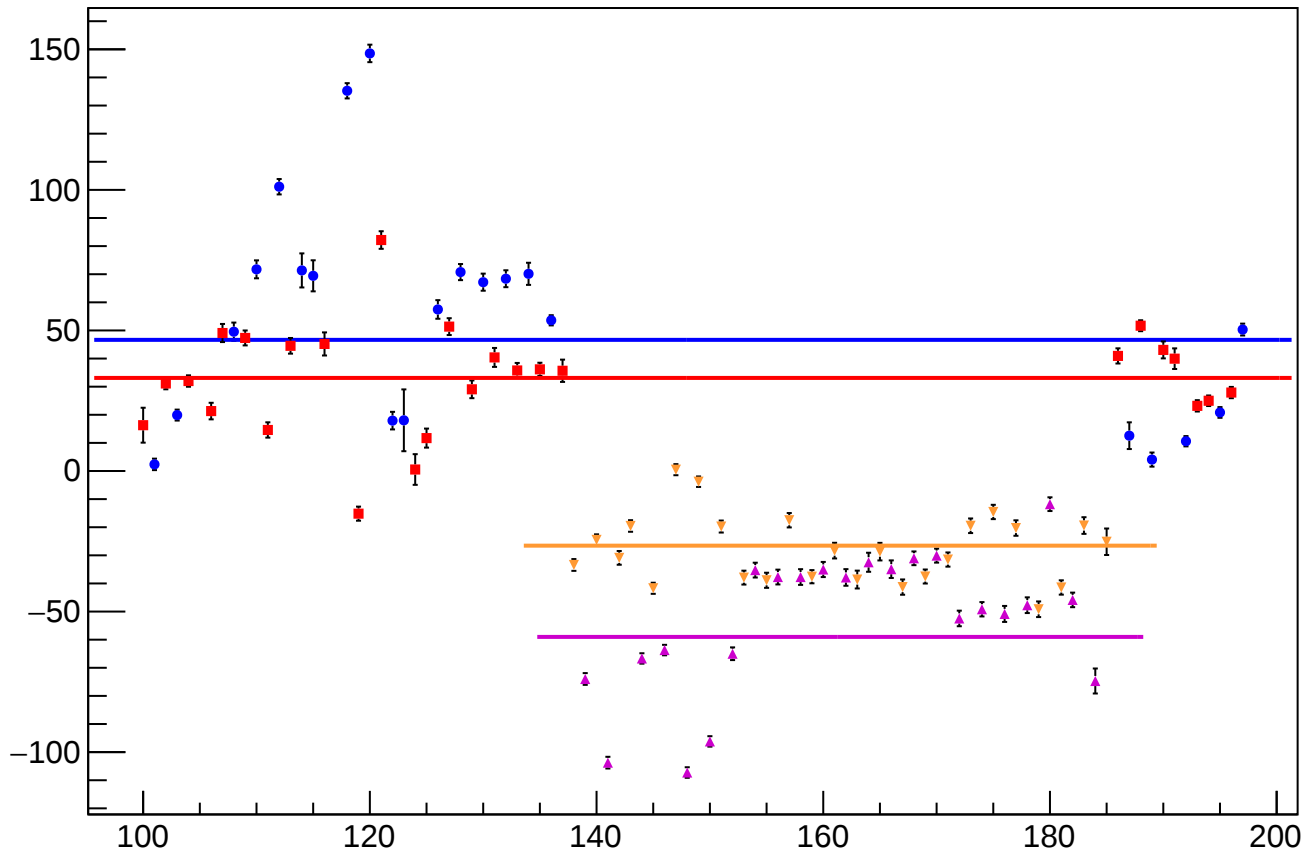
Right: 1634.531 ± 0.252 $\chi^2/\text{NDF}: 337295.8/47$

In: 1495.813 ± 0.205 $\chi^2/\text{NDF}: 773994.1/44$

Out: 1497.493 ± 0.195 $\chi^2/\text{NDF}: 715834.1/50$

All: 1496.691 ± 0.141 $\chi^2/\text{NDF}: 1489863.4/95$

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 46.652+/-0.574 χ^2/NDF : 4519.7/21

Left Out: -26.554+/-0.488 χ^2/NDF : 717.5/24

Right Out: 33.112+/-0.526 χ^2/NDF : 1052.8/25

Left In: -59.014+/-0.506 χ^2/NDF : 2783.8/22

Left: -42.178+/-0.351 χ^2/NDF : 5632.2/47

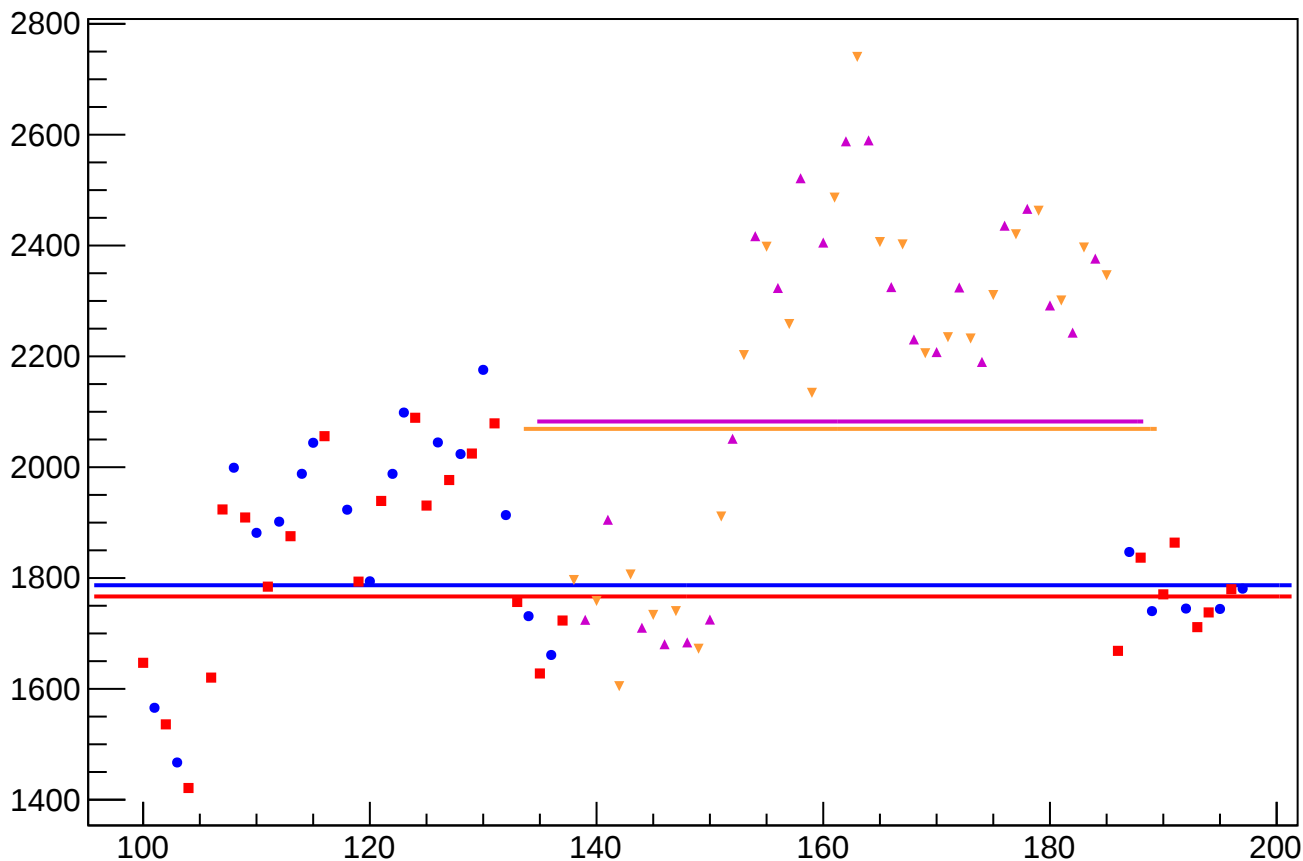
Right: 39.302+/-0.388 χ^2/NDF : 5874.9/47

In: -12.737+/-0.380 χ^2/NDF : 26370.2/44

Out: 1.011+/-0.358 χ^2/NDF : 8680.5/50

All: -5.456+/-0.260 χ^2/NDF : 35745.1/95

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1786.998 ± 0.406 $\chi^2/\text{NDF}: 187550.0/21$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1766.758 ± 0.372 $\chi^2/\text{NDF}: 186546.4/25$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

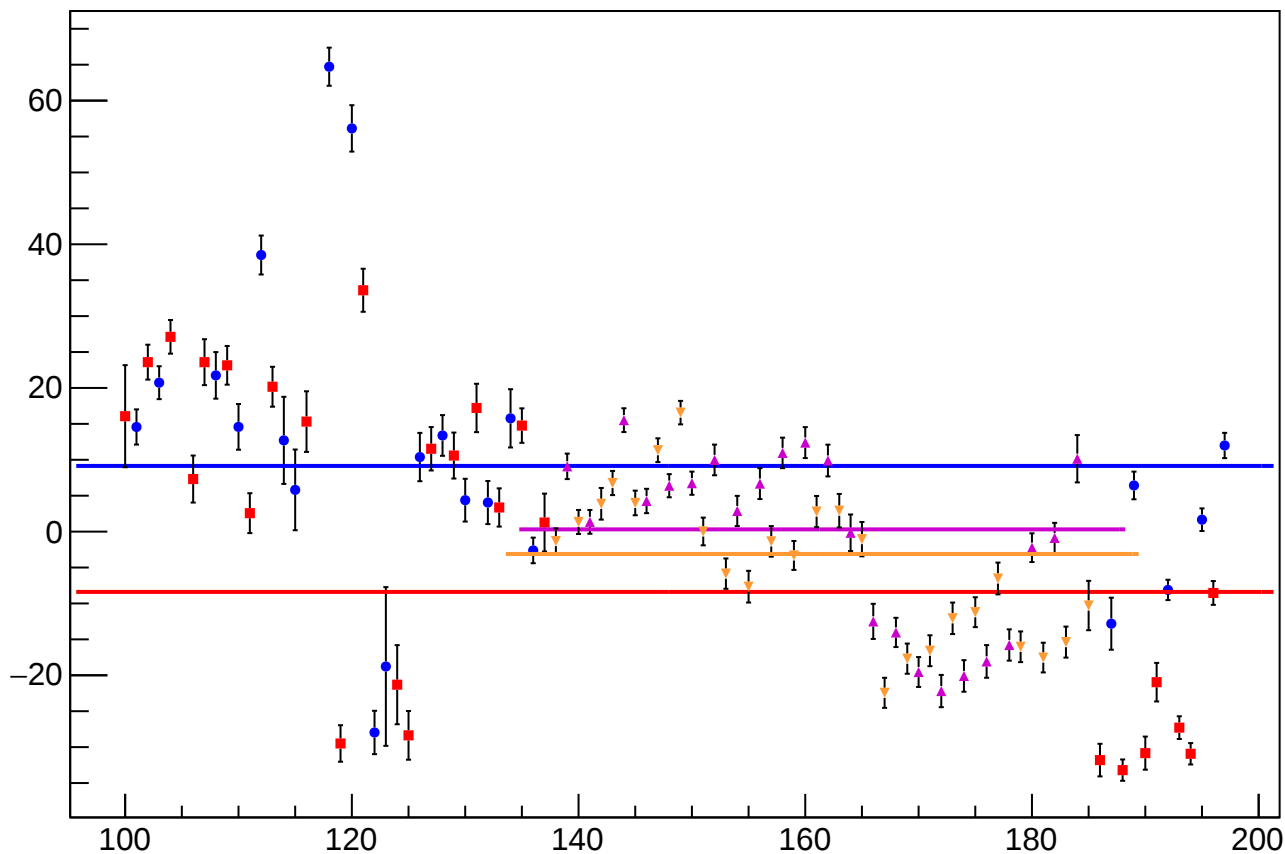
Right: 1776.011 ± 0.274 $\chi^2/\text{NDF}: 375447.8/47$

In: 1953.081 ± 0.268 $\chi^2/\text{NDF}: 1271083.1/44$

Out: 1929.446 ± 0.253 $\chi^2/\text{NDF}: 1340558.7/50$

All: 1940.565 ± 0.184 $\chi^2/\text{NDF}: 2615746.3/95$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 9.146 ± 0.535 $\chi^2/\text{NDF}: 1242.1/21$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: -8.394 ± 0.484 $\chi^2/\text{NDF}: 2263.5/25$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

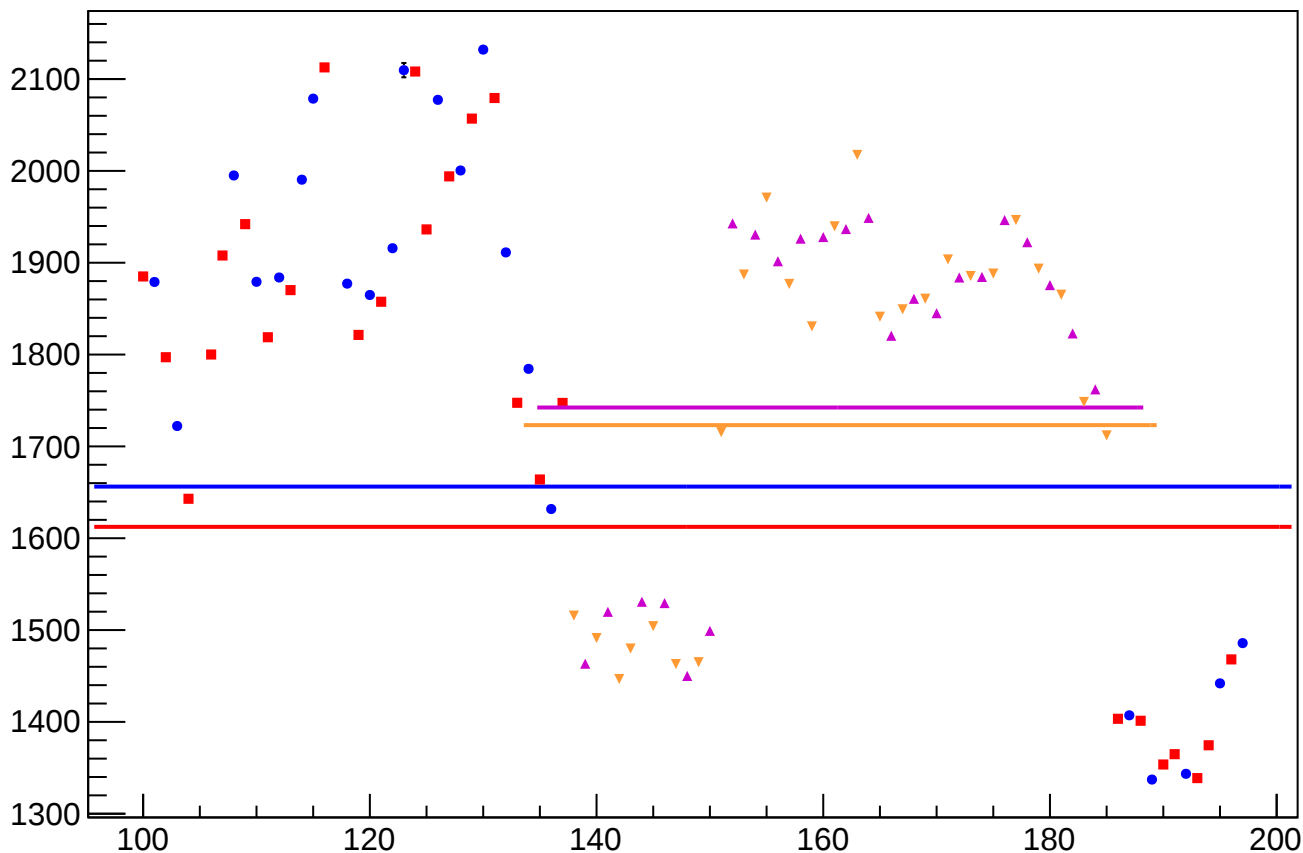
Right: -0.505 ± 0.359 $\chi^2/\text{NDF}: 4096.0/47$

In: 3.688 ± 0.331 $\chi^2/\text{NDF}: 2146.8/44$

Out: -5.282 ± 0.310 $\chi^2/\text{NDF}: 2977.4/50$

All: -1.086 ± 0.226 $\chi^2/\text{NDF}: 5515.0/95$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1656.227 ± 0.379 $\chi^2/\text{NDF}: 468767.7/21$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1612.377 ± 0.342 $\chi^2/\text{NDF}: 529487.9/25$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

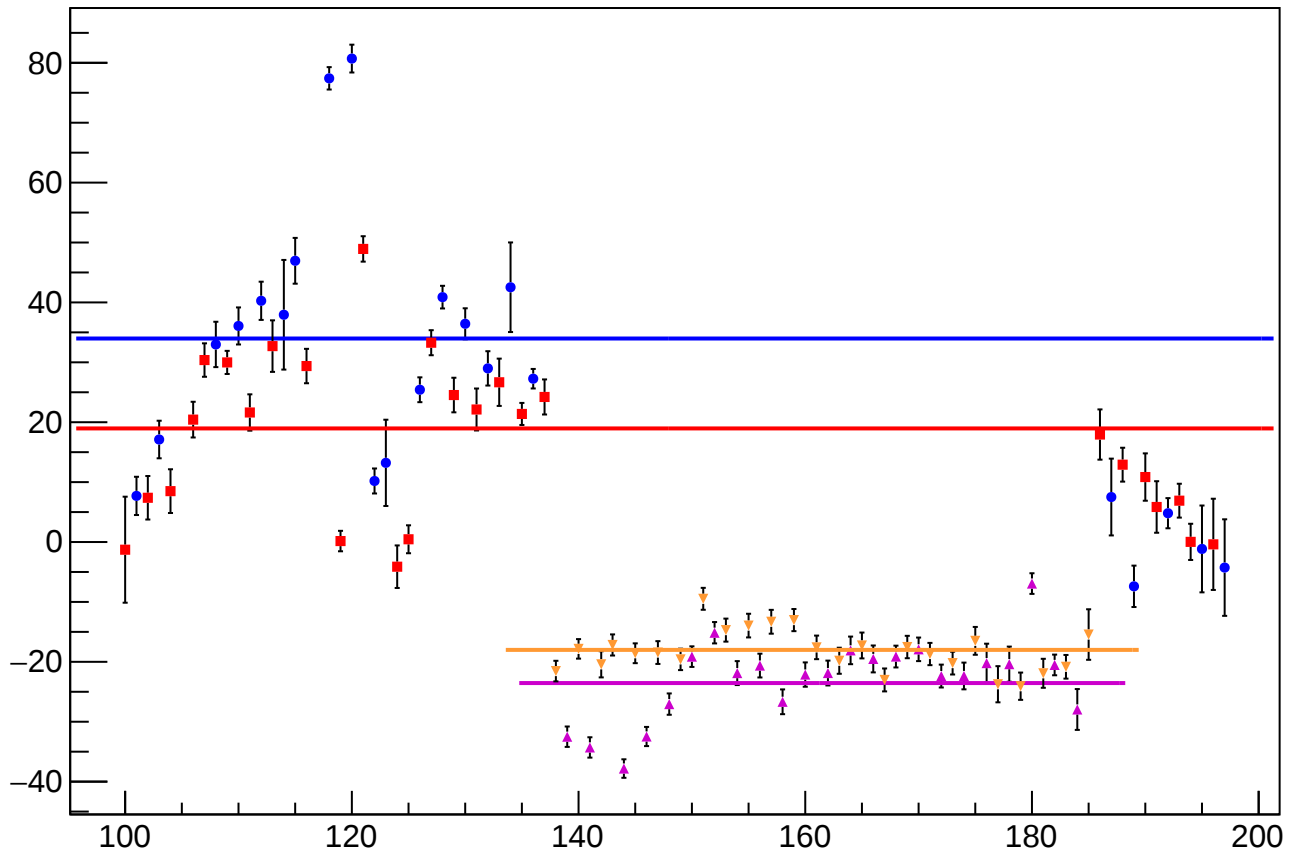
Right: 1632.101 ± 0.254 $\chi^2/\text{NDF}: 1005635.9/47$

In: 1709.442 ± 0.234 $\chi^2/\text{NDF}: 936582.4/44$

Out: 1677.656 ± 0.219 $\chi^2/\text{NDF}: 1068642.9/50$

All: 1692.524 ± 0.160 $\chi^2/\text{NDF}: 2015042.5/99$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 33.974 ± 0.603 $\chi^2/\text{NDF}: 1588.8/21$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 18.963 ± 0.555 $\chi^2/\text{NDF}: 665.3/25$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

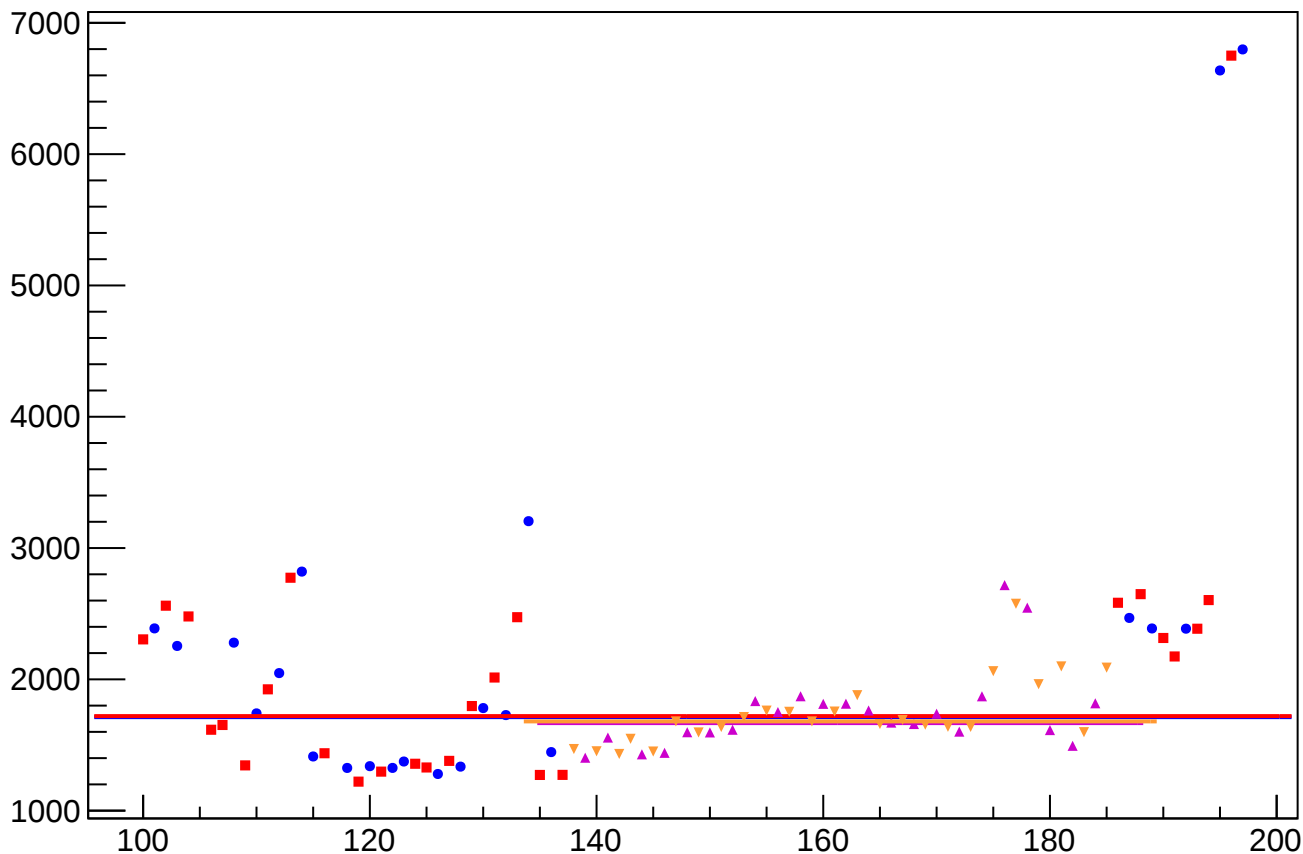
Right: 25.852 ± 0.408 $\chi^2/\text{NDF}: 2589.5/47$

In: -5.619 ± 0.337 $\chi^2/\text{NDF}: 8200.9/44$

Out: -5.515 ± 0.323 $\chi^2/\text{NDF}: 3674.1/50$

All: -5.565 ± 0.233 $\chi^2/\text{NDF}: 11875.1/95$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1712.327+/-0.426 χ^2/NDF : 2737461.0/21

Left Out: 1679.814+/-0.281 χ^2/NDF : 522795.6/24

Right Out: 1720.071+/-0.393 χ^2/NDF : 2587489.7/25

Left In: 1666.819+/-0.287 χ^2/NDF : 650990.8/22

Left: 1673.462+/-0.201 χ^2/NDF : 1174835.7/47

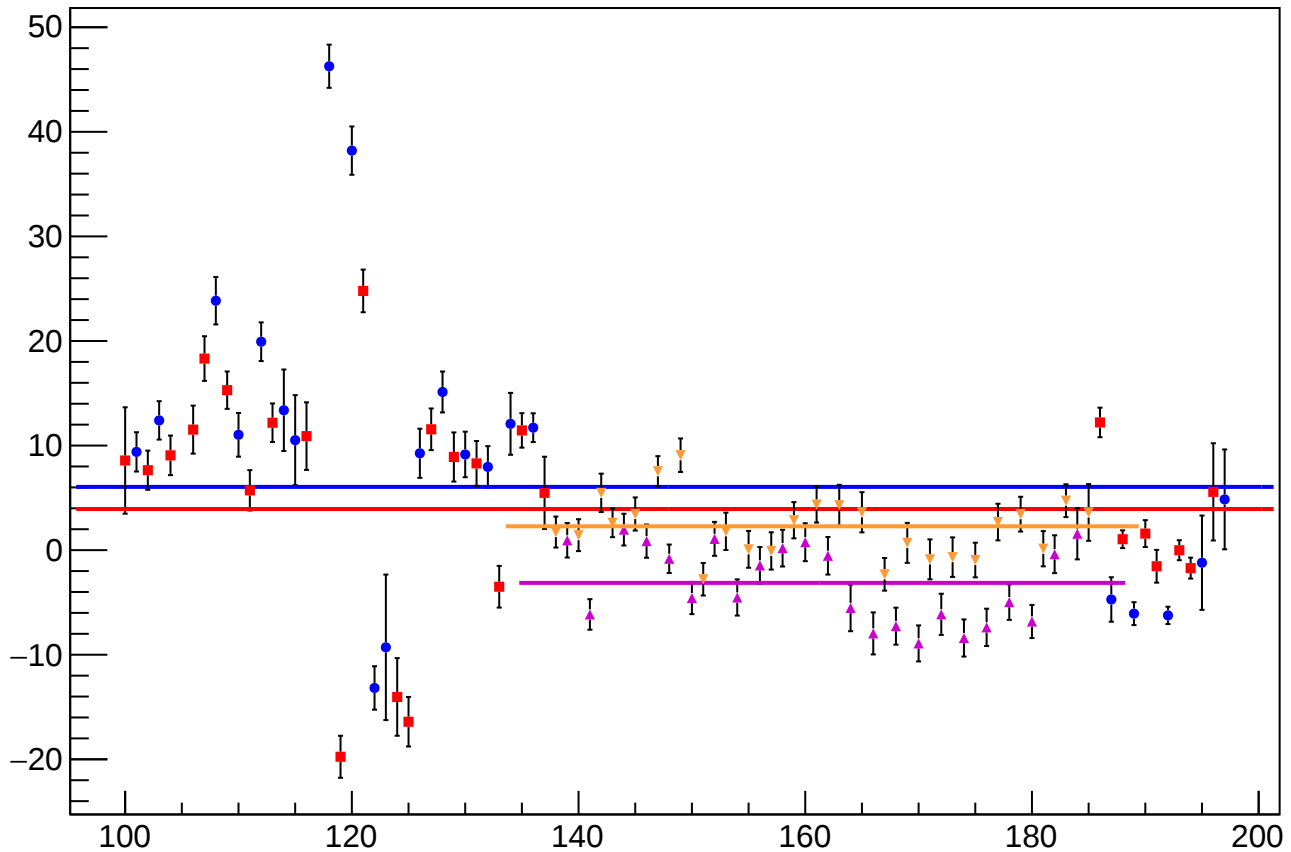
Right: 1716.517+/-0.289 χ^2/NDF : 5325129.3/47

In: 1681.001+/-0.238 χ^2/NDF : 3396295.9/44

Out: 1693.418+/-0.228 χ^2/NDF : 3117245.3/50

All: 1687.469+/-0.165 χ^2/NDF : 6514959.2/95

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 6.048 ± 0.400 $\chi^2/\text{NDF}: 1224.6/21$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 3.935 ± 0.331 $\chi^2/\text{NDF}: 643.6/25$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

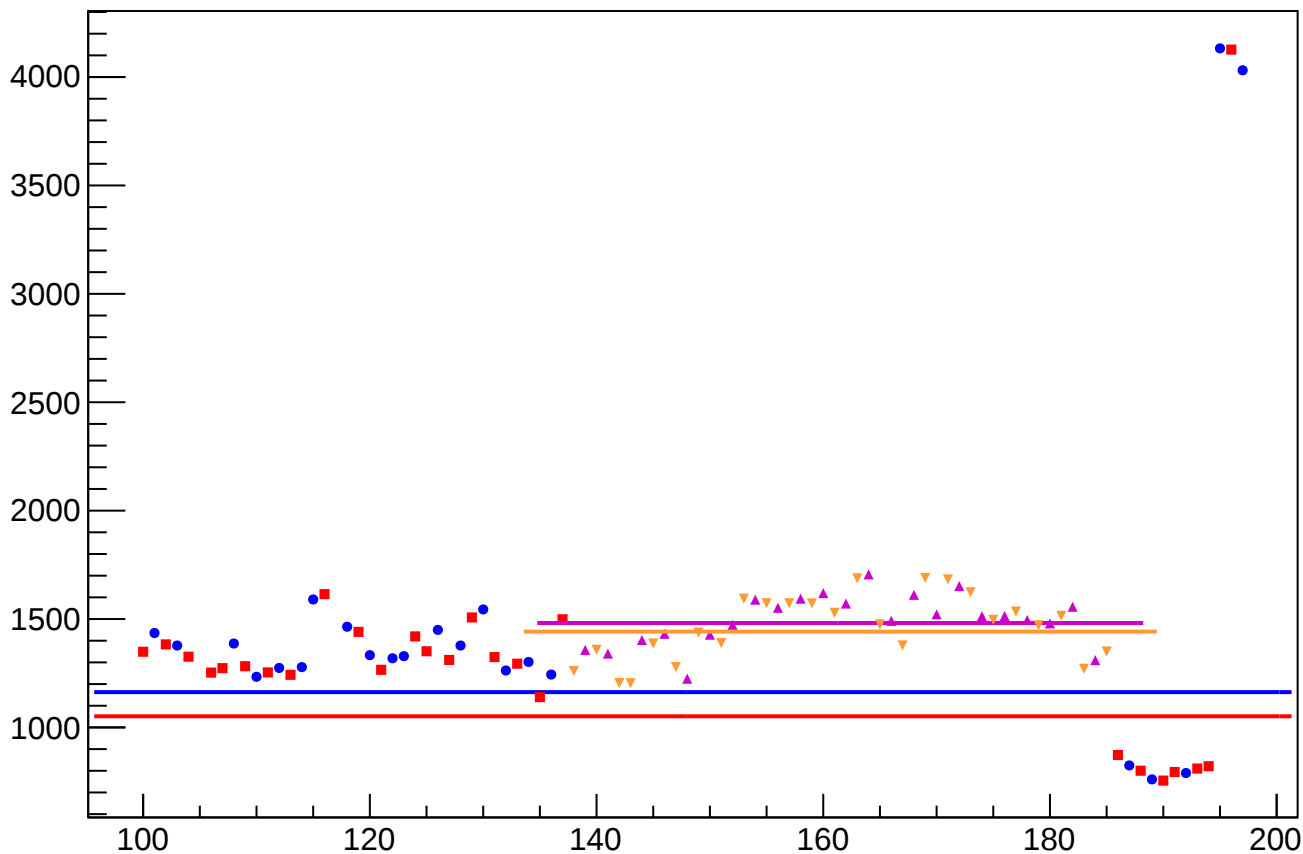
Right: 4.794 ± 0.255 $\chi^2/\text{NDF}: 1884.8/47$

In: 0.944 ± 0.267 $\chi^2/\text{NDF}: 1620.1/44$

Out: 3.125 ± 0.237 $\chi^2/\text{NDF}: 731.4/50$

All: 2.164 ± 0.177 $\chi^2/\text{NDF}: 2389.0/95$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1162.856 ± 0.283 $\chi^2/\text{NDF}: 2630601.8/21$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1051.382 ± 0.234 $\chi^2/\text{NDF}: 2121219.6/25$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

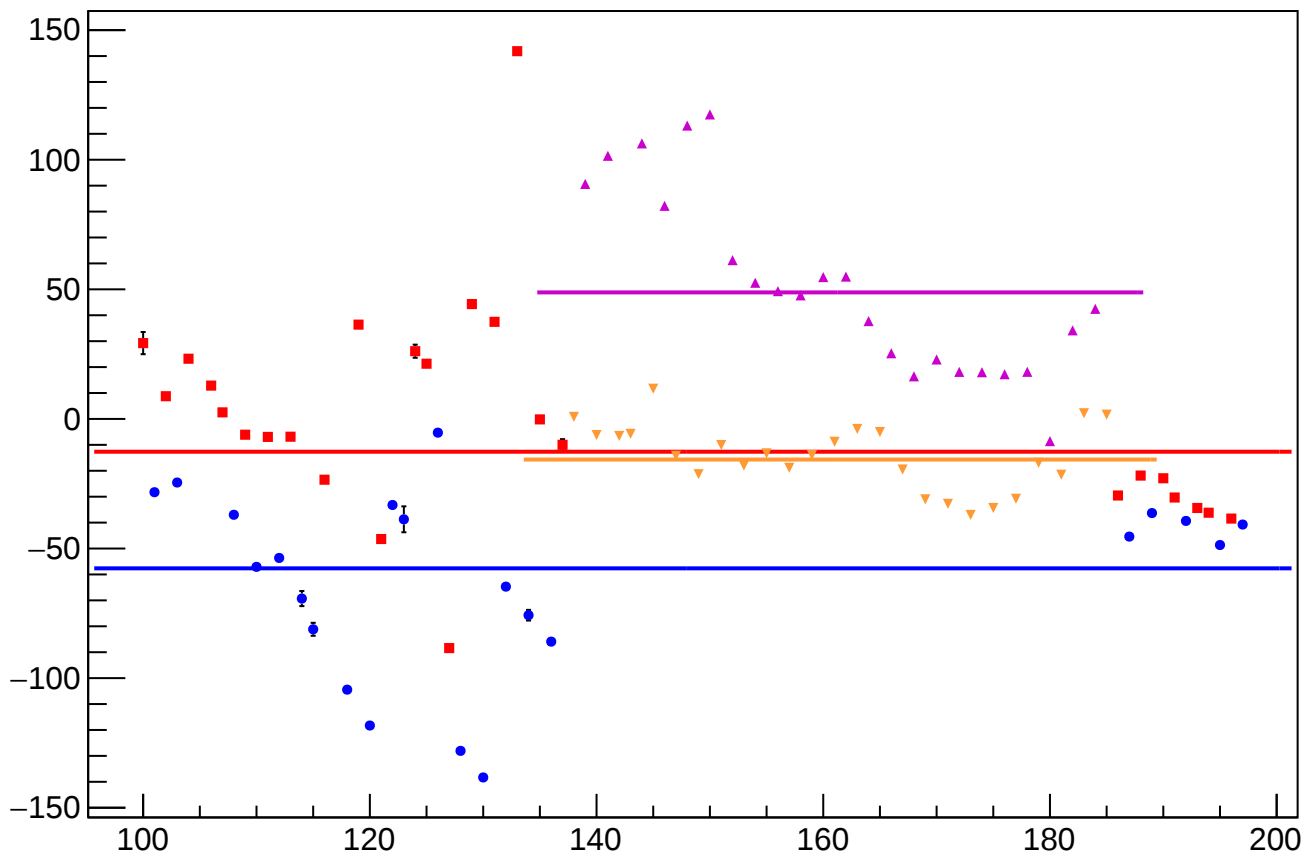
Right: 1096.666 ± 0.180 $\chi^2/\text{NDF}: 4843863.8/47$

In: 1340.208 ± 0.189 $\chi^2/\text{NDF}: 3544473.4/44$

Out: 1242.554 ± 0.167 $\chi^2/\text{NDF}: 3853242.4/50$

All: 1285.564 ± 0.125 $\chi^2/\text{NDF}: 7547722.1/95$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Left: 15.324 ± 0.152 $\chi^2/\text{NDF} = 73443.2/47$

Right: -32.917 ± 0.174 $\chi^2/\text{NDF} = 58120.6/47$

In: 4.254 ± 0.168 $\chi^2/\text{NDF} = 138629.0/44$

Out: -14.314 ± 0.157 $\chi^2/\text{NDF} = 29916.3/50$

All: -5.634 ± 0.115 $\chi^2/\text{NDF} = 175076.6/95$

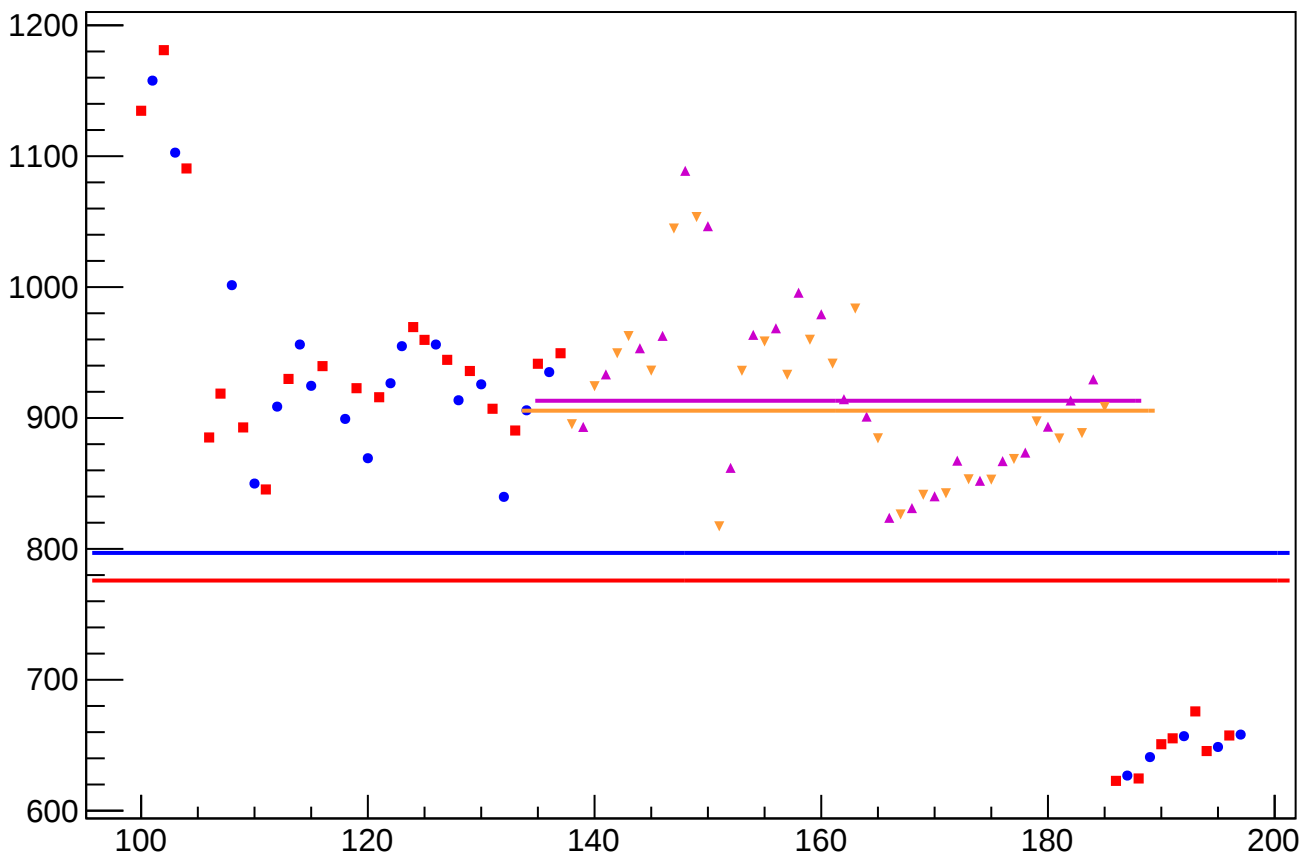
Right In: -57.646 ± 0.259 $\chi^2/\text{NDF} = 15245.8/21$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF} = 3518.1/24$

Right Out: -12.652 ± 0.235 $\chi^2/\text{NDF} = 26307.2/25$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF} = 25260.8/22$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 796.920 $\pm$ 0.183 χ^2 /NDF: 711240.3/21

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF: 162073.5/24

Right Out: 775.827 $\pm$ 0.166 χ^2 /NDF: 865405.7/25

Left In: 913.165 $\pm$ 0.155 χ^2 /NDF: 174438.8/22

Left: 909.225 $\pm$ 0.108 χ^2 /NDF: 337749.0/47

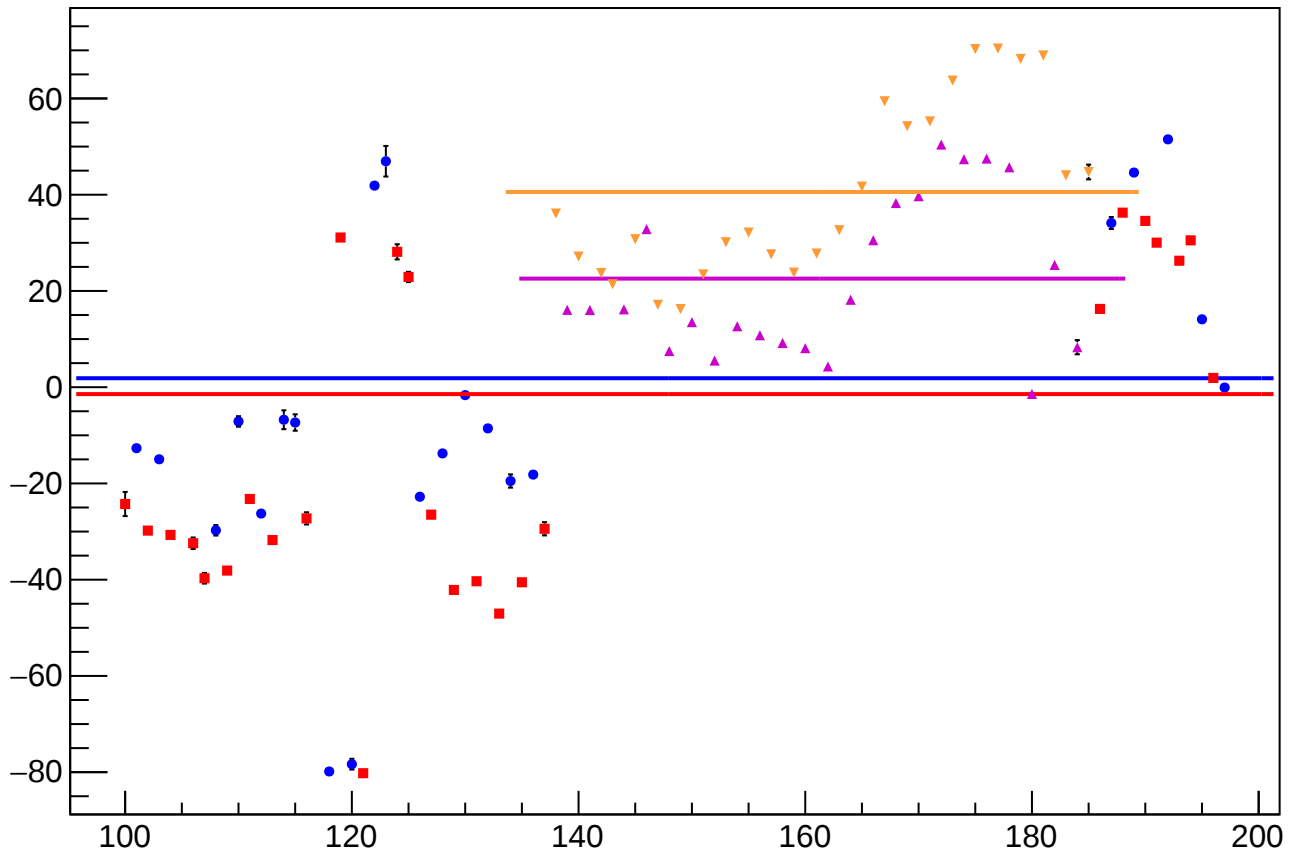
Right: 785.327 $\pm$ 0.123 χ^2 /NDF: 1583927.4/47

In: 864.510 $\pm$ 0.119 χ^2 /NDF: 1119663.6/44

Out: 847.399 $\pm$ 0.111 χ^2 /NDF: 1364942.7/50

All: 855.398 $\pm$ 0.081 χ^2 /NDF: 2495698.5/95

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.865 $\pm$ 0.182 χ^2 /NDF: 35131.8/21

Left Out: 40.573 $\pm$ 0.168 χ^2 /NDF:12079.0/24

Right Out: -1.436 $\pm$ 0.166 χ^2 /NDF: 40913.0/25

Left In: 22.565 $\pm$ 0.175 χ^2 /NDF:8167.7/22

Left: 31.959 $\pm$ 0.121 χ^2 /NDF: 25752.7/47

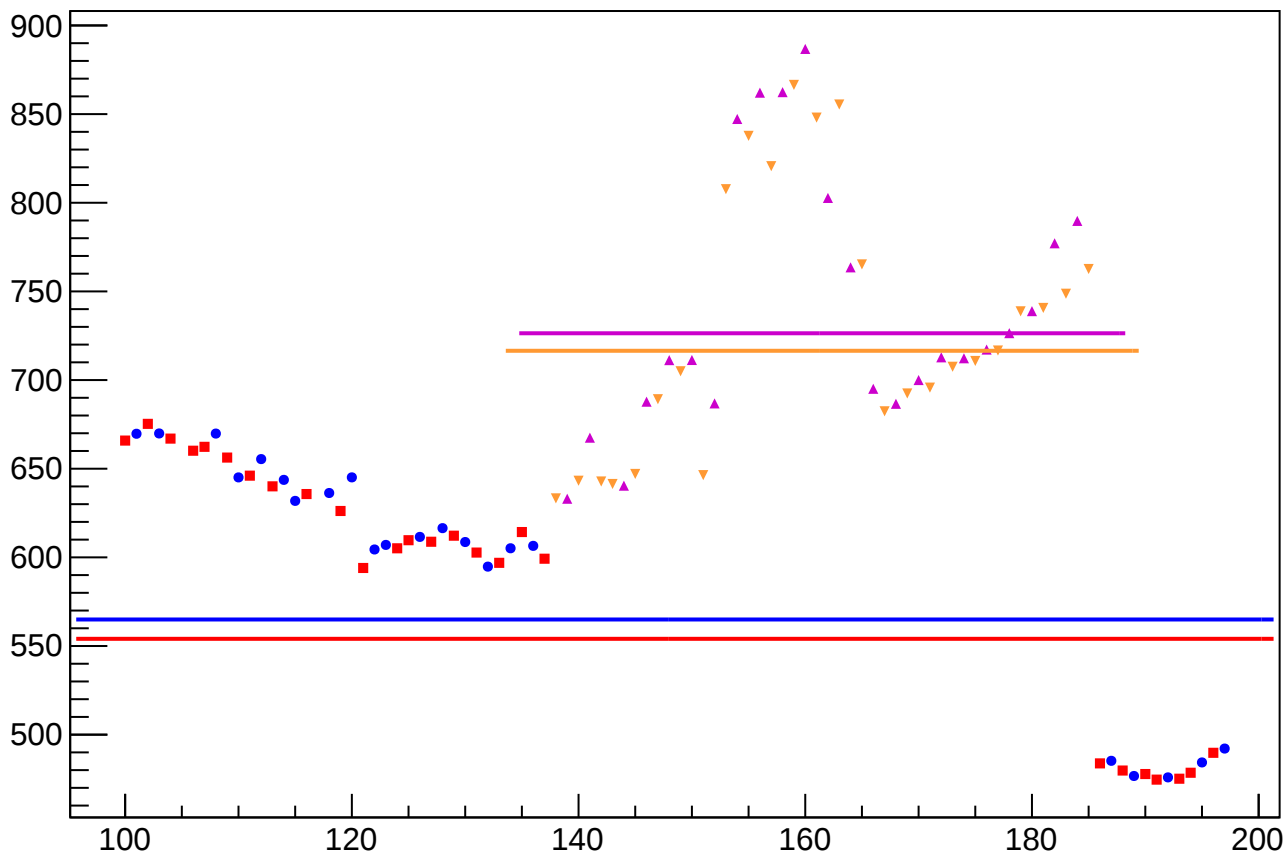
Right: 0.062 $\pm$ 0.123 χ^2 /NDF: 76224.6/47

In: 12.600 $\pm$ 0.126 χ^2 /NDF:50013.7/44

Out: 19.318 $\pm$ 0.118 χ^2 /NDF:84688.6/50

All: 16.186 $\pm$ 0.086 χ^2 /NDF: 136214.0/95

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 564.959 ± 0.129 χ^2/NDF : 348297.8/21

Left Out: 716.515 ± 0.119 χ^2/NDF : 342740.2/24

Right Out: 554.056 ± 0.117 χ^2/NDF : 430131.2/25

Left In: 726.390 ± 0.124 χ^2/NDF : 289788.8/22

Left: 721.238 ± 0.086 χ^2/NDF : 635840.6/47

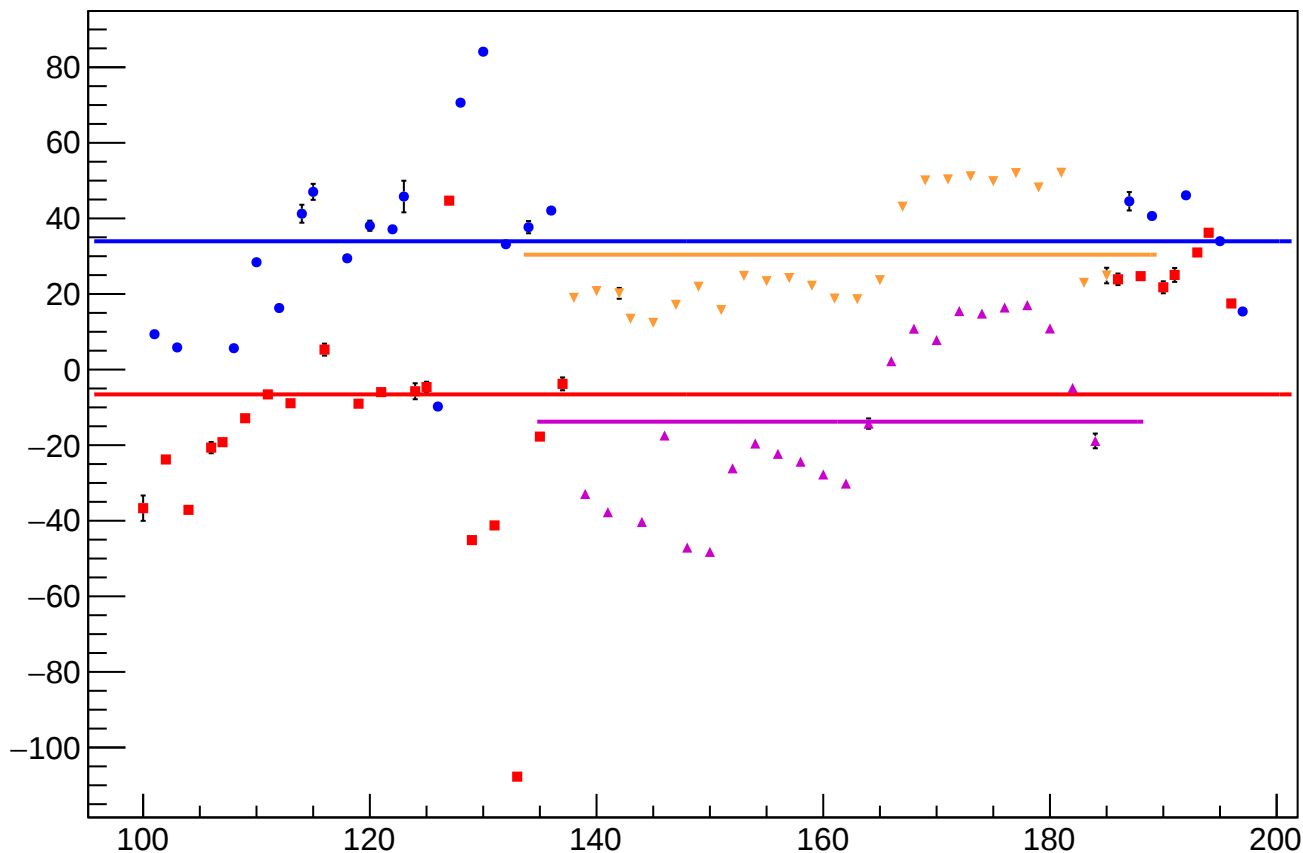
Right: 559.004 ± 0.087 χ^2/NDF : 782352.2/47

In: 648.676 ± 0.089 χ^2/NDF : 1454748.1/44

Out: 634.315 ± 0.083 χ^2/NDF : 1720988.0/50

All: 641.010 ± 0.061 χ^2/NDF : 3189554.8/95

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.953 ± 0.261 χ^2/NDF : 6908.3/21

Left Out: 30.408 ± 0.237 χ^2/NDF : 3808.0/24

Right Out: -6.566 ± 0.246 χ^2/NDF : 18969.4/25

Left In: -13.787 ± 0.246 χ^2/NDF : 7979.7/22

Left: 9.082 ± 0.171 χ^2/NDF : 28511.9/47

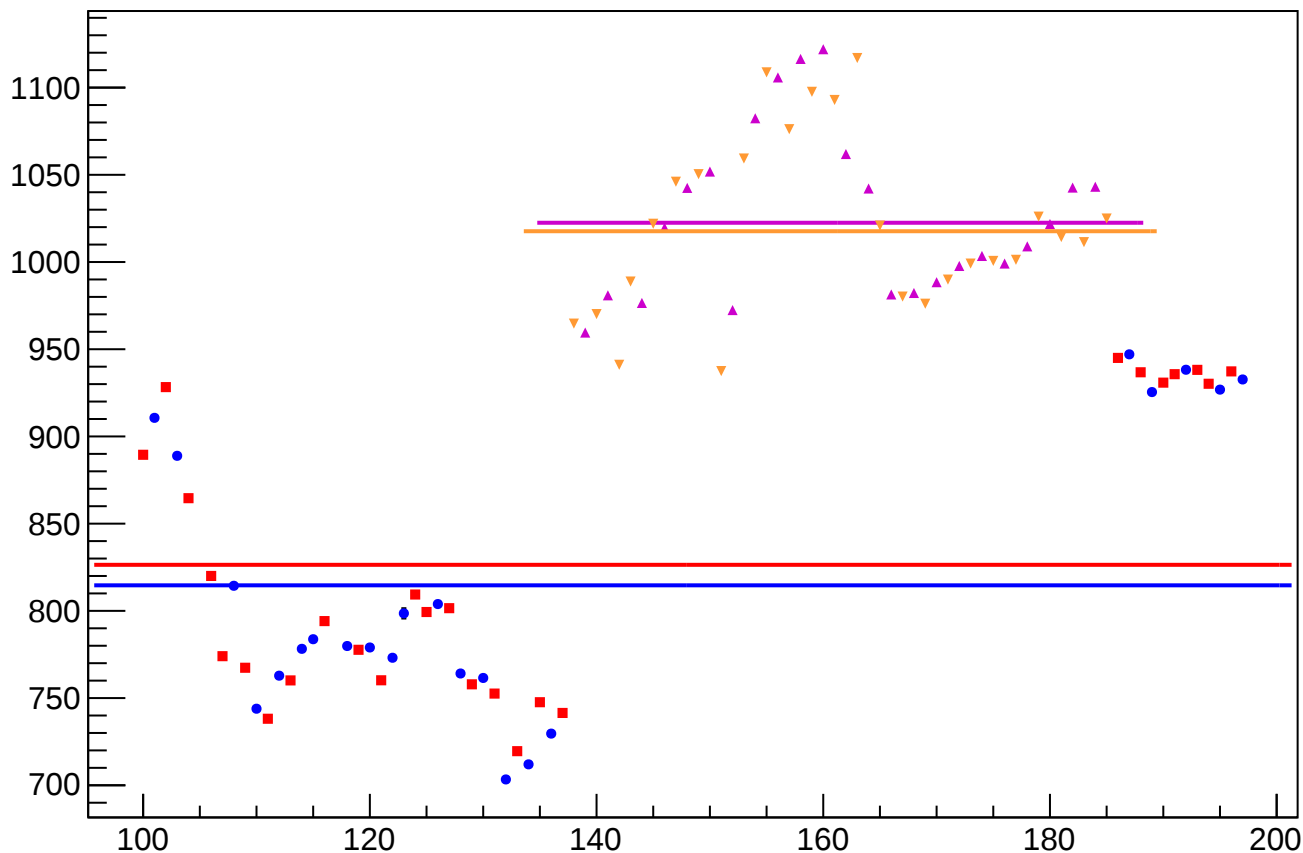
Right: 12.489 ± 0.179 χ^2/NDF : 38608.1/47

In: 8.621 ± 0.179 χ^2/NDF : 32589.9/44

Out: 12.599 ± 0.171 χ^2/NDF : 34461.3/50

All: 10.703 ± 0.124 χ^2/NDF : 67309.4/95

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 814.641 $\pm$ 0.185 χ^2 /NDF: 197726.9/21

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF:83612.5/24

Right Out: 826.399 $\pm$ 0.174 χ^2 /NDF: 222051.2/25

Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF:69635.5/22

Left: 1019.997 $\pm$ 0.121 χ^2 /NDF: 153652.2/47

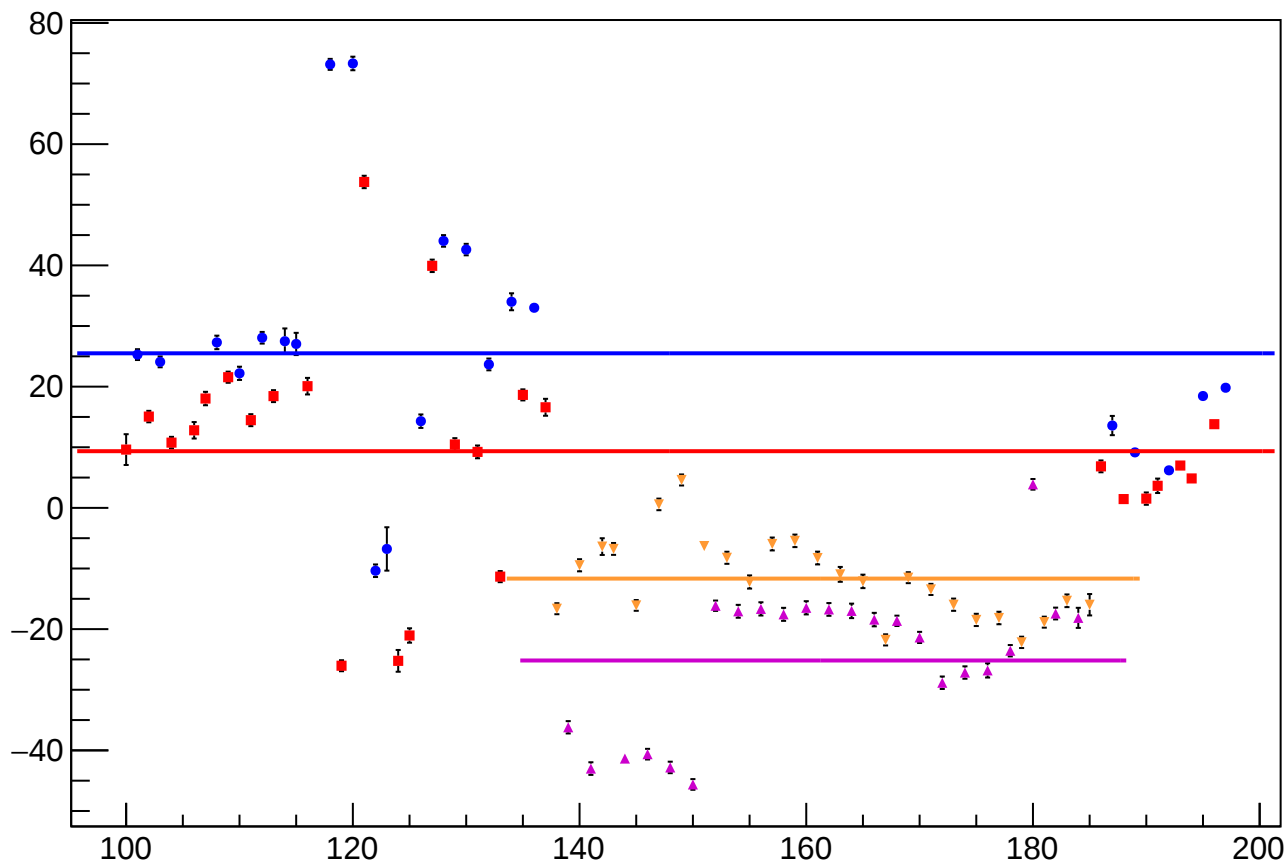
Right: 820.870 $\pm$ 0.127 χ^2 /NDF: 421922.2/47

In: 924.940 $\pm$ 0.127 χ^2 /NDF:938607.4/44

Out: 925.532 $\pm$ 0.121 χ^2 /NDF:930898.1/50

All: 925.250 $\pm$ 0.087 χ^2 /NDF: 1869516.9/95

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 25.498 ± 0.201 $\chi^2/\text{NDF}: 8477.2/21$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 9.351 ± 0.189 $\chi^2/\text{NDF}: 6747.6/25$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

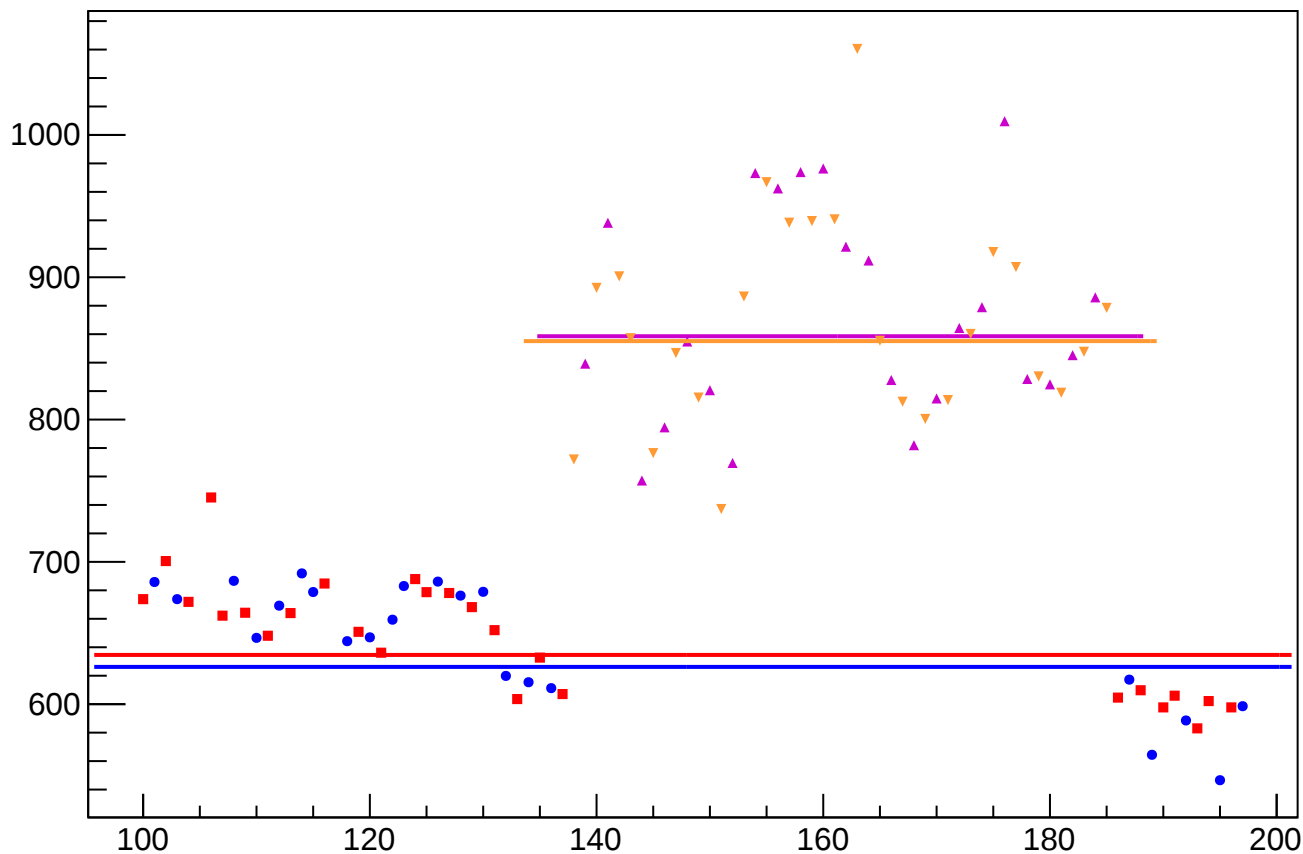
Right: 16.921 ± 0.137 $\chi^2/\text{NDF}: 18659.7/47$

In: 0.978 ± 0.144 $\chi^2/\text{NDF}: 43038.7/44$

Out: -0.527 ± 0.137 $\chi^2/\text{NDF}: 13729.4/50$

All: 0.188 ± 0.099 $\chi^2/\text{NDF}: 56825.2/95$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 626.196+/-0.142 χ^2/NDF : 108060.1/21

Left Out: 855.131+/-0.142 χ^2/NDF : 233746.7/24

Right Out: 634.608+/-0.133 χ^2/NDF : 79824.1/25

Left In: 858.563+/-0.147 χ^2/NDF : 239019.8/22

Left: 856.788+/-0.102 χ^2/NDF : 473049.9/47

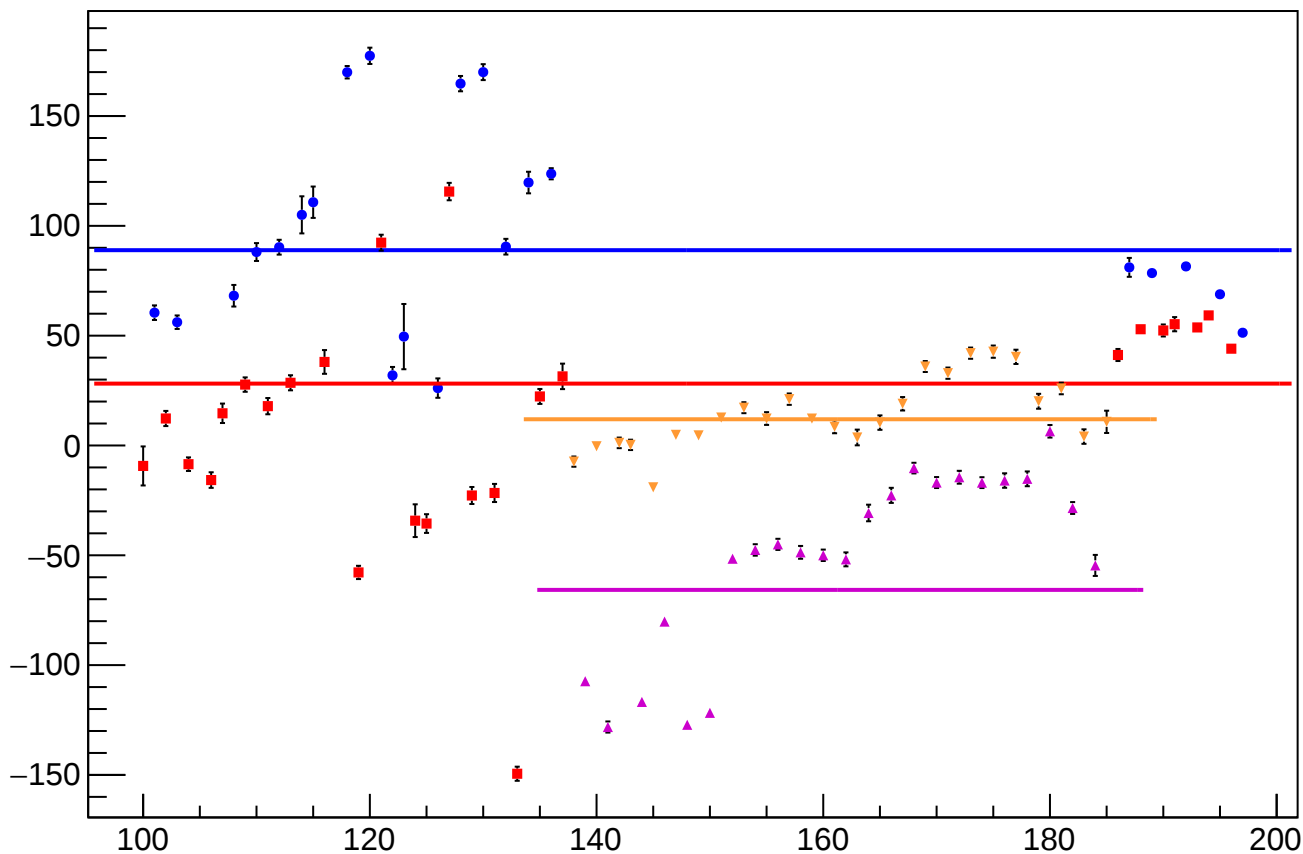
Right: 630.664+/-0.097 χ^2/NDF : 189748.8/47

In: 738.640+/-0.102 χ^2/NDF : 1643071.4/44

Out: 738.267+/-0.097 χ^2/NDF : 1598489.6/50

All: 738.444+/-0.070 χ^2/NDF : 3241568.0/95

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 88.921 ± 0.643 $\chi^2/\text{NDF}: 3789.2/21$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: 28.168 ± 0.590 $\chi^2/\text{NDF}: 6577.7/25$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

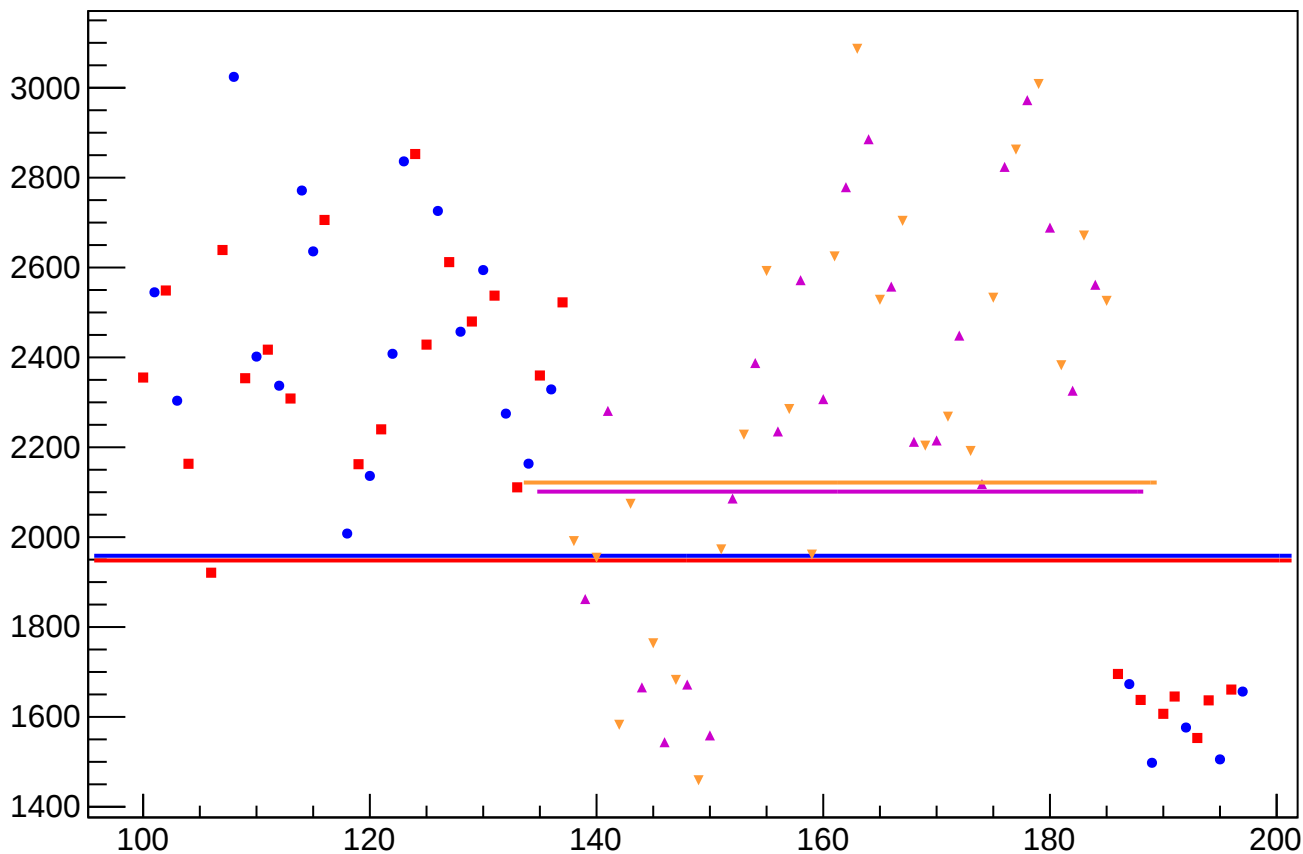
Right: 55.945 ± 0.435 $\chi^2/\text{NDF}: 15208.9/47$

In: -4.950 ± 0.403 $\chi^2/\text{NDF}: 46216.9/44$

Out: 18.801 ± 0.384 $\chi^2/\text{NDF}: 7990.6/50$

All: 7.510 ± 0.278 $\chi^2/\text{NDF}: 56027.0/95$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1958.616 $\pm$ 0.455 χ^2/NDF : 929259.8/21

Left Out: 2121.567 $\pm$ 0.357 χ^2/NDF : 1387847.6/24

Right Out: 1948.141 $\pm$ 0.417 χ^2/NDF : 844002.9/25

Left In: 2101.325 $\pm$ 0.366 χ^2/NDF : 1360518.3/22

Left: 2111.691 $\pm$ 0.256 χ^2/NDF : 2749931.8/47

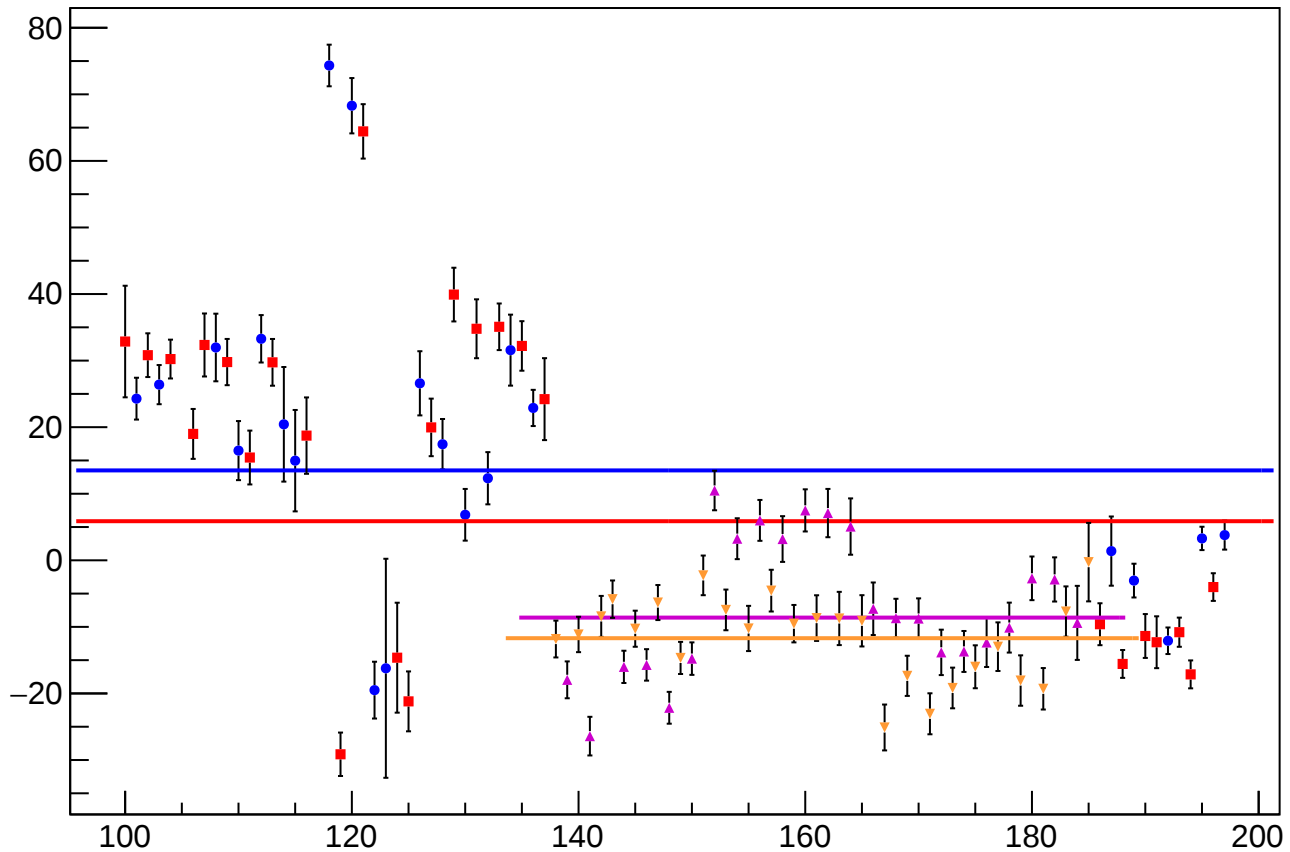
Right: 1952.930 $\pm$ 0.308 χ^2/NDF : 1773550.5/47

In: 2045.226 $\pm$ 0.285 χ^2/NDF : 2349525.0/44

Out: 2048.235 $\pm$ 0.271 χ^2/NDF : 2331461.4/50

All: 2046.805 $\pm$ 0.197 χ^2/NDF : 4681044.8/95

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 13.505+/-0.702 χ^2/NDF : 993.0/21

Left Out: -11.700+/-0.625 χ^2/NDF : 85.0/24

Right Out: 5.875+/-0.657 χ^2/NDF : 1280.5/25

Left In: -8.606+/-0.642 χ^2/NDF : 264.2/22

Left: -10.193+/-0.448 χ^2/NDF : 361.1/47

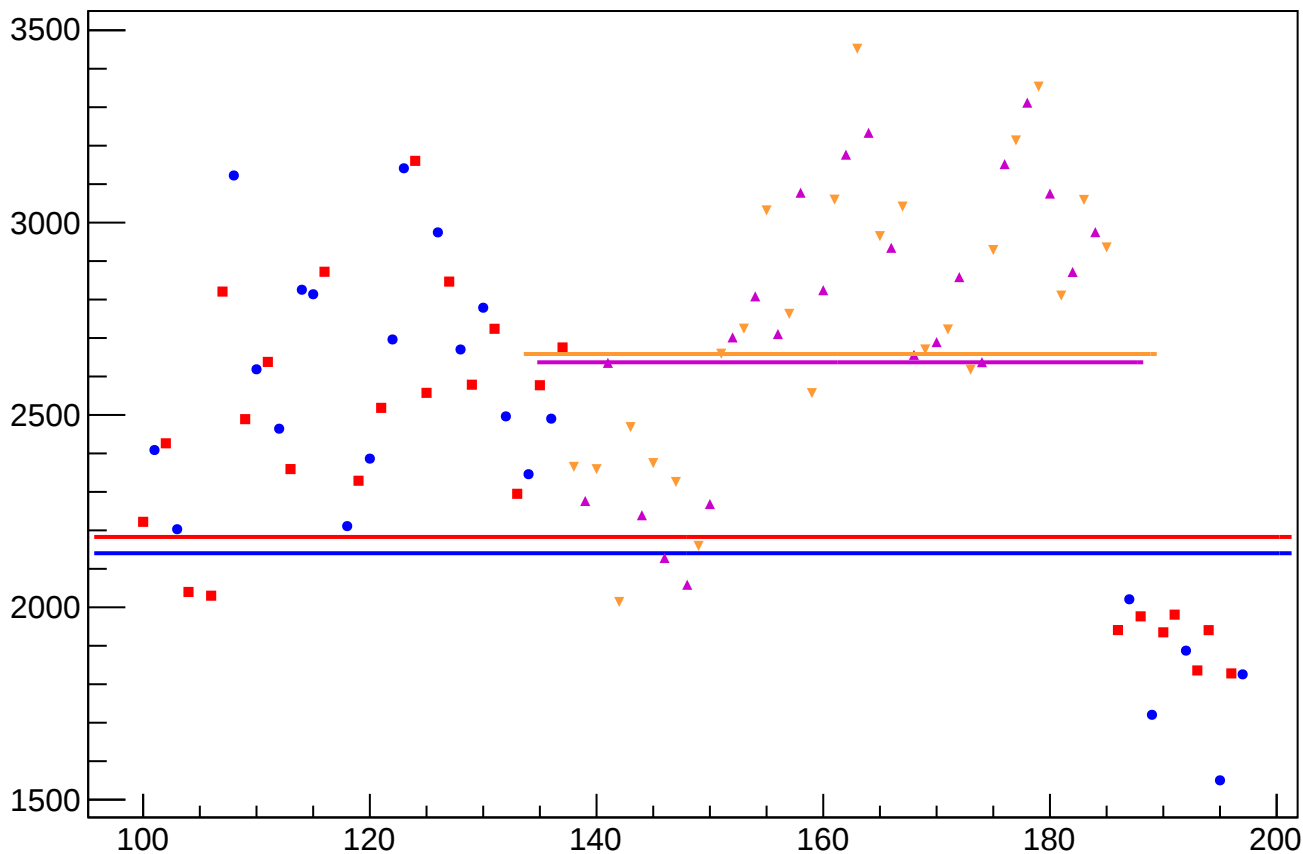
Right: 9.439+/-0.480 χ^2/NDF : 2336.4/47

In: 1.460+/-0.474 χ^2/NDF : 1797.4/44

Out: -3.349+/-0.453 χ^2/NDF : 1740.7/50

All: -1.052+/-0.327 χ^2/NDF : 3591.9/95

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2140.578 $\pm$ 0.497 χ^2/NDF : 769483.4/21

Left Out: 2658.486 $\pm$ 0.442 χ^2/NDF : 618133.8/24

Right Out: 2182.904 $\pm$ 0.465 χ^2/NDF : 506418.2/25

Left In: 2636.885 $\pm$ 0.454 χ^2/NDF : 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2/NDF : 1272190.1/47

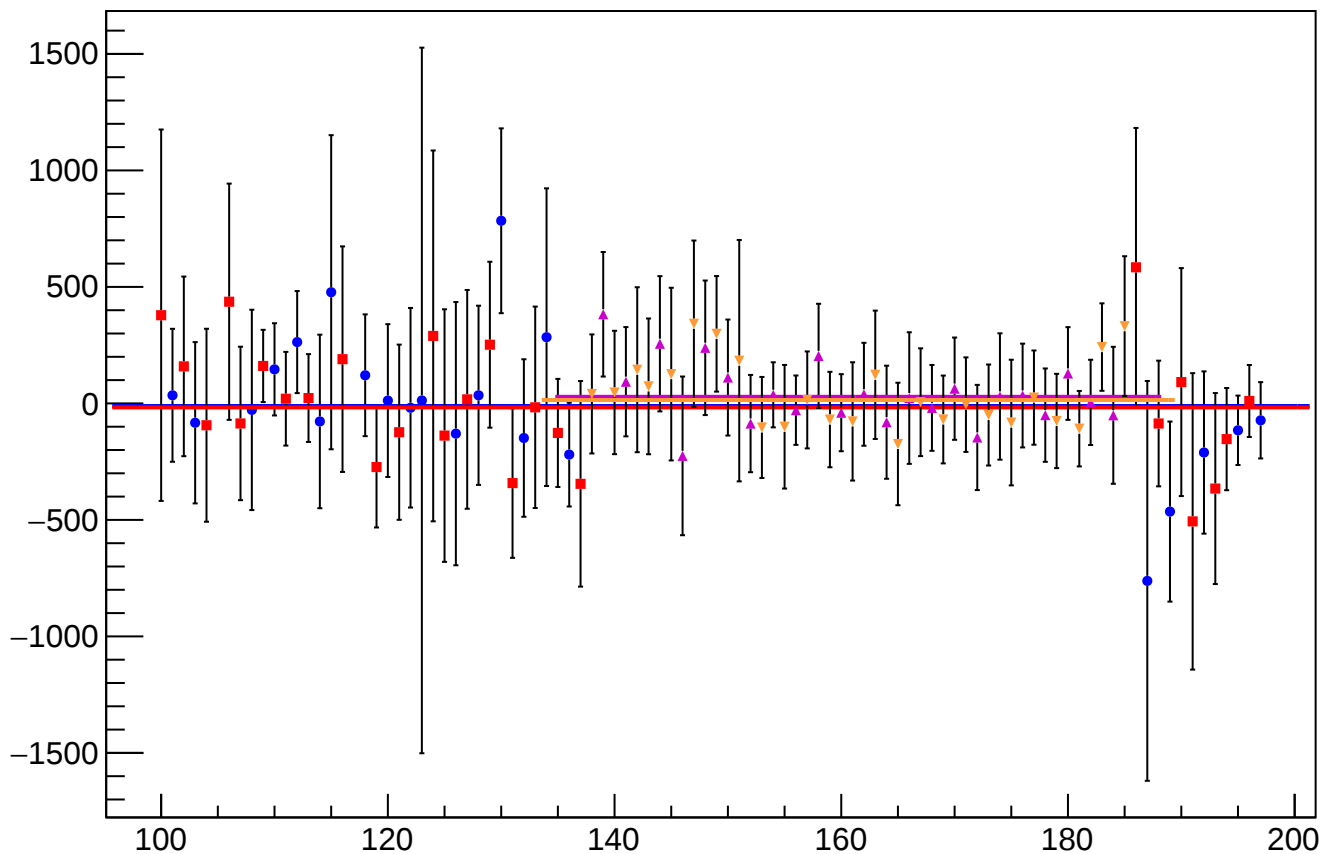
Right: 2163.135 $\pm$ 0.339 χ^2/NDF : 1279774.4/47

In: 2410.933 $\pm$ 0.335 χ^2/NDF : 1966662.1/44

Out: 2432.519 $\pm$ 0.320 χ^2/NDF : 1673997.9/50

All: 2422.207 $\pm$ 0.232 χ^2/NDF : 3642828.3/95

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -11.304 ± 62.272 $\chi^2/\text{NDF}: 11.5/21$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -17.245 ± 58.133 $\chi^2/\text{NDF}: 9.4/25$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

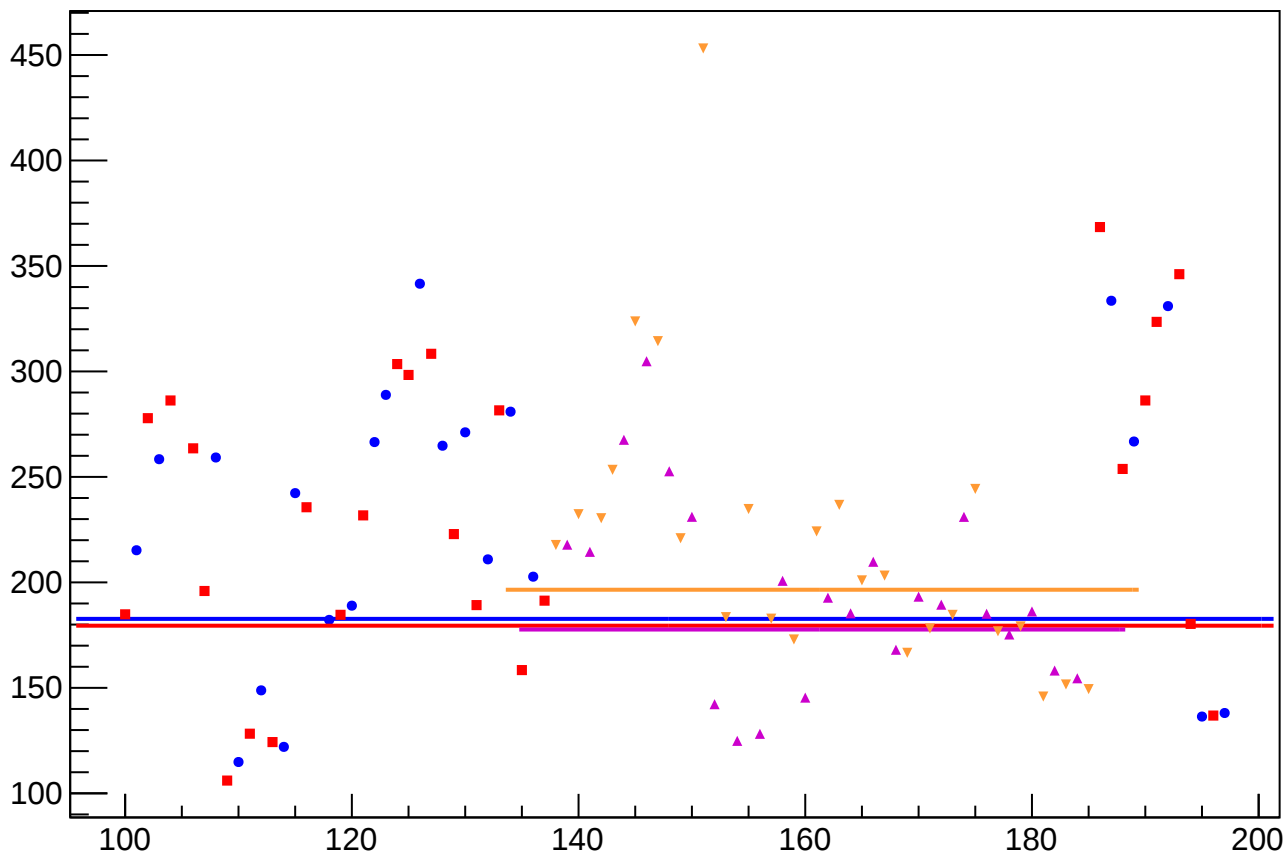
Right: -14.478 ± 42.494 $\chi^2/\text{NDF}: 20.9/47$

In: 14.864 ± 36.280 $\chi^2/\text{NDF}: 18.1/44$

Out: 1.794 ± 36.796 $\chi^2/\text{NDF}: 17.4/50$

All: 8.421 ± 25.834 $\chi^2/\text{NDF}: 35.5/95$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.704 $\pm$ 0.044 χ^2 /NDF: 1910598.5/21

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 179.471 $\pm$ 0.041 χ^2 /NDF: 2627363.9/25

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF:1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

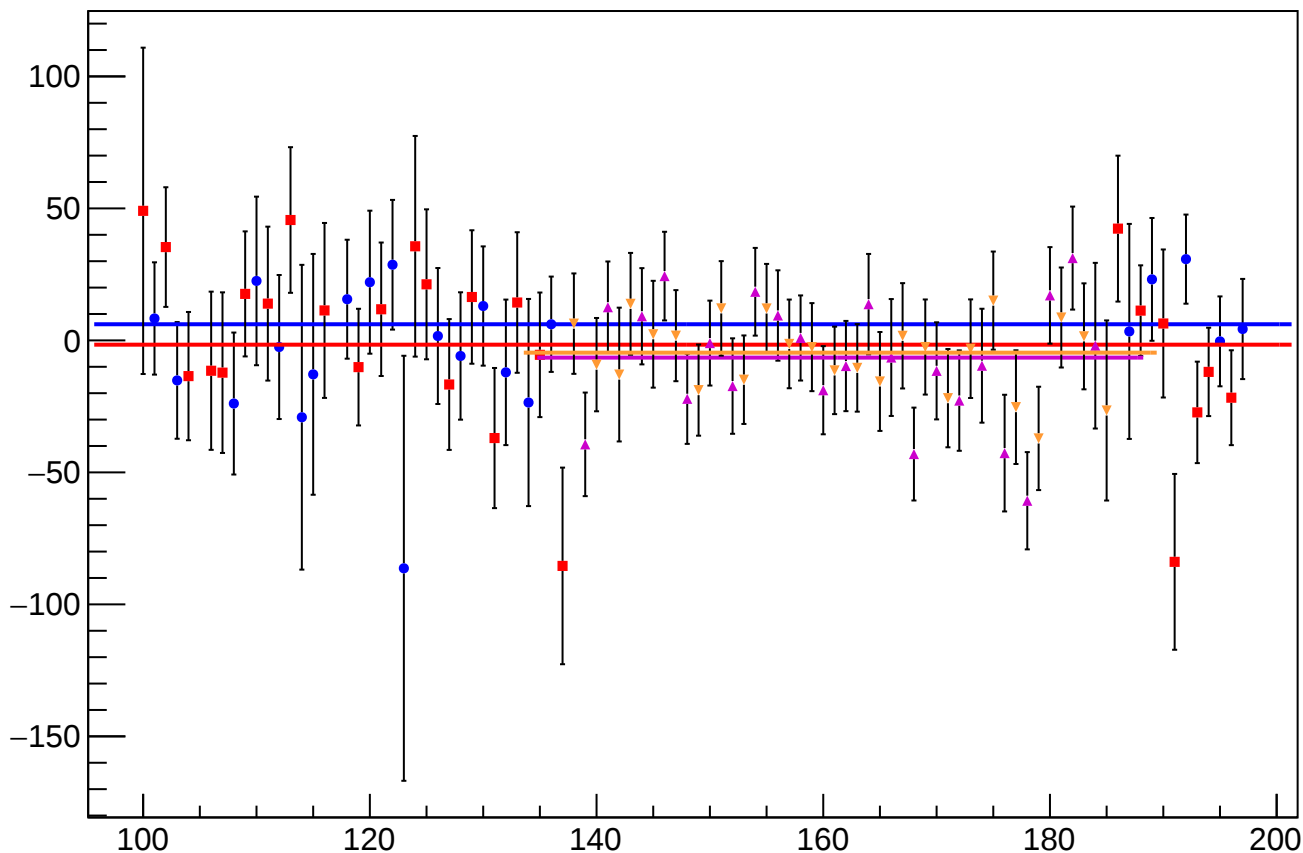
Right: 180.977 $\pm$ 0.030 χ^2 /NDF: 4540842.1/47

In: 179.361 $\pm$ 0.026 χ^2 /NDF:3549988.5/44

Out: 189.686 $\pm$ 0.026 χ^2 /NDF:4519895.5/50

All: 184.451 $\pm$ 0.018 χ^2 /NDF: 8149736.0/95

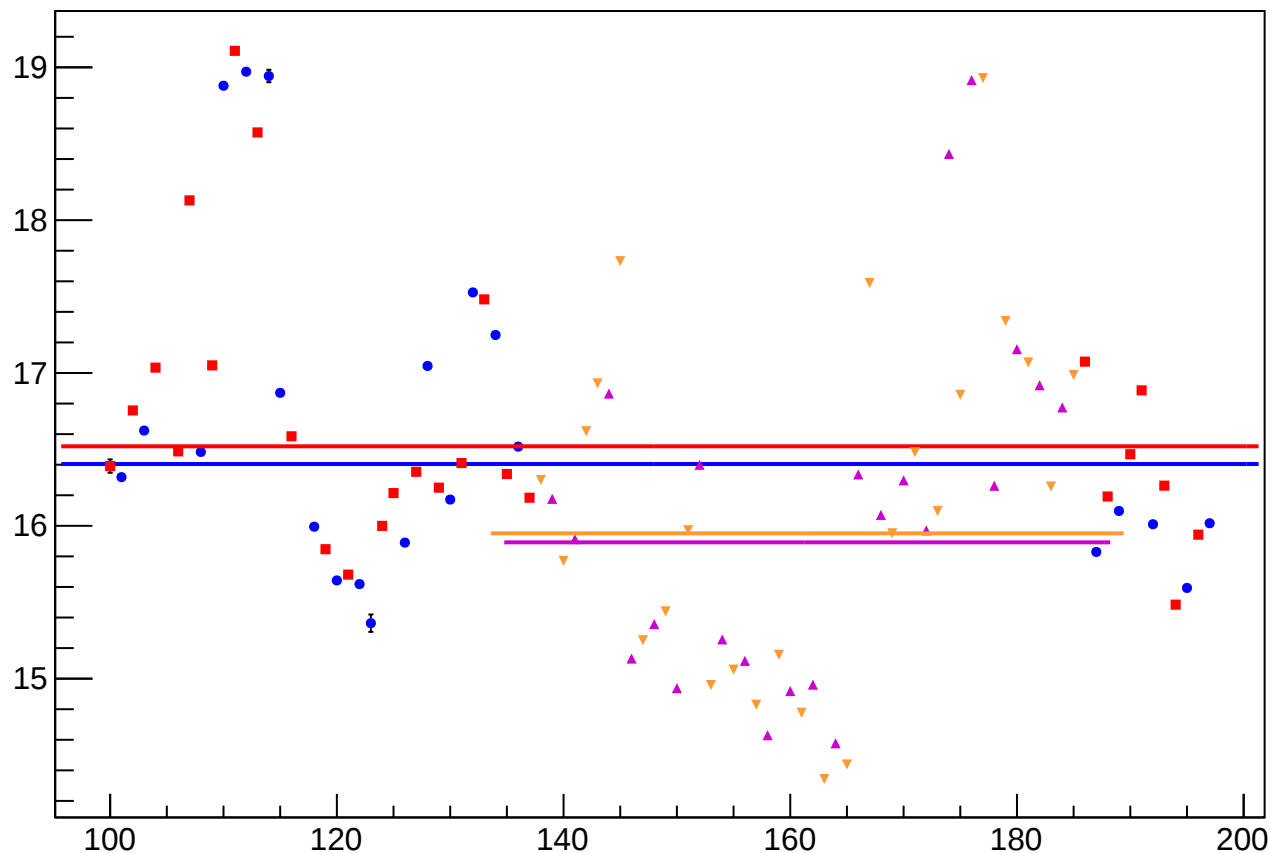
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.115 ± 5.249 $\chi^2/\text{NDF}: 10.0/21$
 Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$
 Right Out: -1.623 ± 4.909 $\chi^2/\text{NDF}: 30.5/25$
 Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$
 Right: 1.987 ± 3.585 $\chi^2/\text{NDF}: 41.6/47$
 In: -2.138 ± 3.093 $\chi^2/\text{NDF}: 50.2/44$
 Out: -3.540 ± 2.969 $\chi^2/\text{NDF}: 42.8/50$
 All: -2.868 ± 2.142 $\chi^2/\text{NDF}: 93.1/95$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.404 $\pm$ 0.004 χ^2/NDF : 52632.8/21

Left Out: 15.951 $\pm$ 0.003 χ^2/NDF :173458.5/24

Right Out: 16.520 $\pm$ 0.003 χ^2/NDF : 54289.6/25

Left In: 15.892 $\pm$ 0.003 χ^2/NDF :147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2/NDF : 320794.5/47

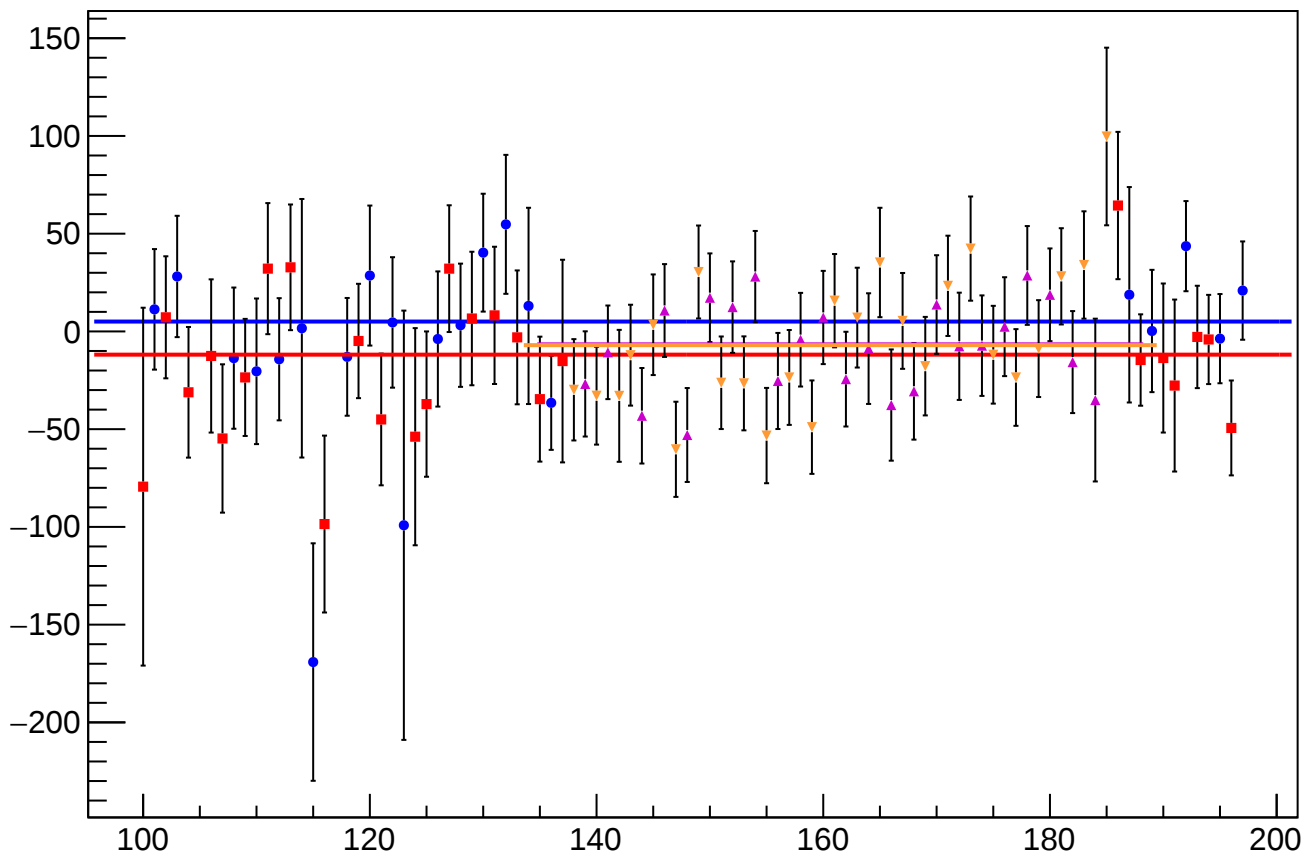
Right: 16.466 $\pm$ 0.003 χ^2/NDF : 107443.4/47

In: 16.070 $\pm$ 0.002 χ^2/NDF :212174.3/44

Out: 16.159 $\pm$ 0.002 χ^2/NDF :244828.0/50

All: 16.116 $\pm$ 0.002 χ^2/NDF : 457869.4/95

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.051 ± 6.975 $\chi^2/\text{NDF}: 21.5/21$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -11.878 ± 6.512 $\chi^2/\text{NDF}: 22.0/25$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

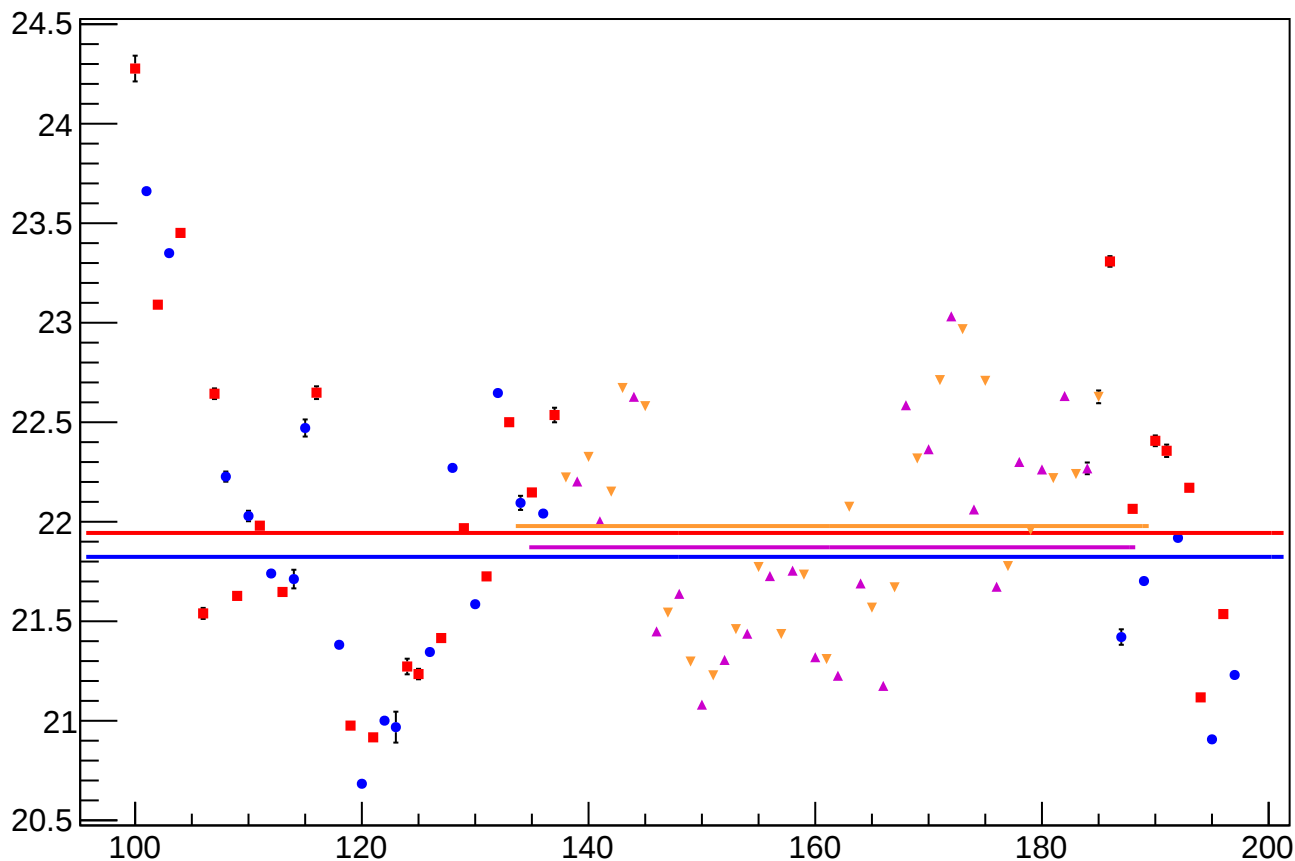
Right: -3.994 ± 4.760 $\chi^2/\text{NDF}: 46.6/47$

In: -2.392 ± 4.195 $\chi^2/\text{NDF}: 42.4/44$

Out: -8.875 ± 4.025 $\chi^2/\text{NDF}: 59.7/50$

All: -5.767 ± 2.905 $\chi^2/\text{NDF}: 103.4/95$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.824+/-0.005 χ^2/NDF : 23010.5/21

Left Out: 21.978+/-0.004 χ^2/NDF :19430.2/24

Right Out: 21.944+/-0.005 χ^2/NDF : 22872.5/25

Left In: 21.872+/-0.004 χ^2/NDF :20524.9/22

Left: 21.926+/-0.003 χ^2/NDF : 40377.5/47

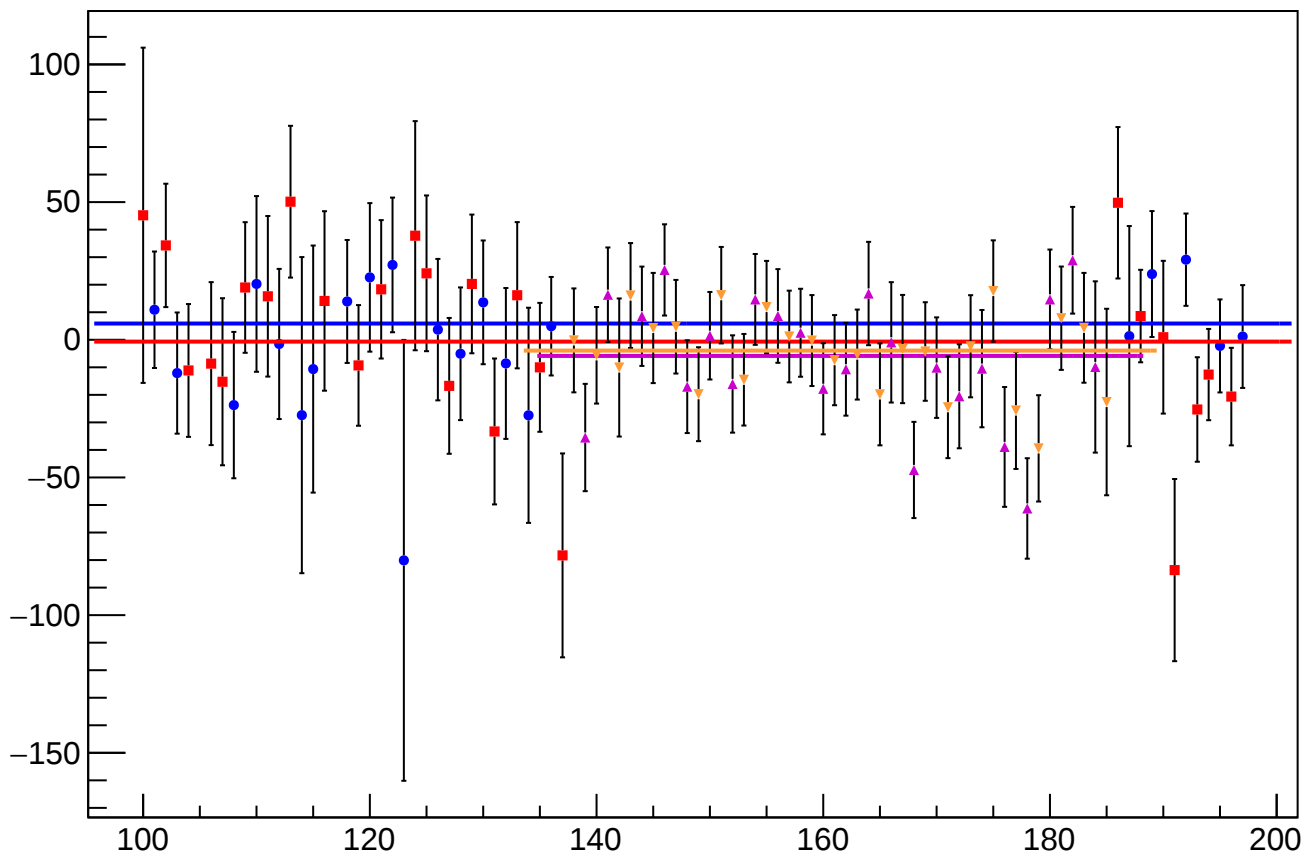
Right: 21.888+/-0.003 χ^2/NDF : 46200.4/47

In: 21.854+/-0.003 χ^2/NDF :43596.4/44

Out: 21.965+/-0.003 χ^2/NDF :42337.5/50

All: 21.912+/-0.002 χ^2/NDF : 86660.4/95

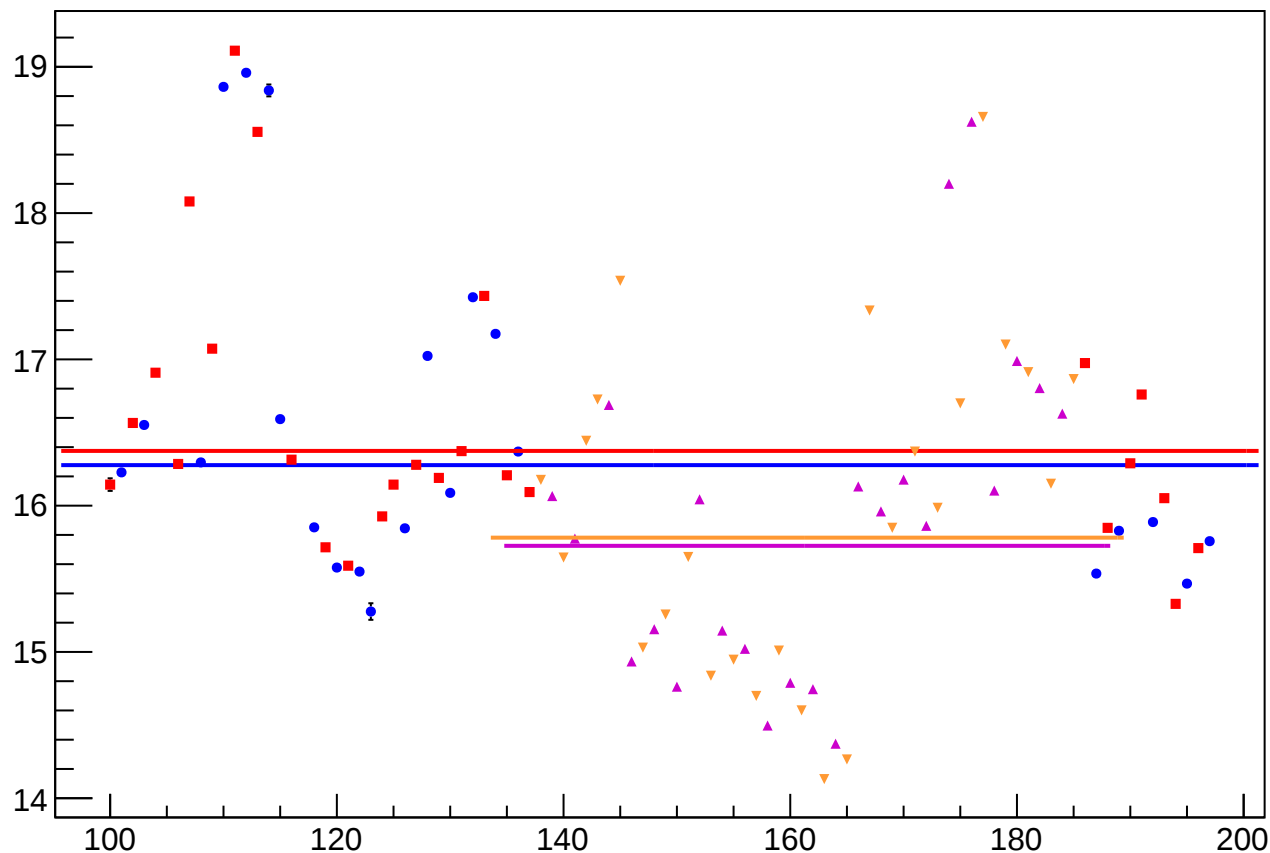
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.901 ± 5.209 $\chi^2/\text{NDF}: 9.3/21$
 Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$
 Right Out: -0.667 ± 4.867 $\chi^2/\text{NDF}: 31.5/25$
 Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$
 Right: 2.394 ± 3.556 $\chi^2/\text{NDF}: 41.7/47$
 In: -1.794 ± 3.063 $\chi^2/\text{NDF}: 48.9/44$
 Out: -2.738 ± 2.939 $\chi^2/\text{NDF}: 45.7/50$
 All: -2.286 ± 2.121 $\chi^2/\text{NDF}: 94.7/95$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.277 $\pm$ 0.004 χ^2 /NDF: 56992.6/21

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF: 172894.3/24

Right Out: 16.374 $\pm$ 0.003 χ^2 /NDF: 61593.9/25

Left In: 15.725 $\pm$ 0.003 χ^2 /NDF: 145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2 /NDF: 318948.8/47

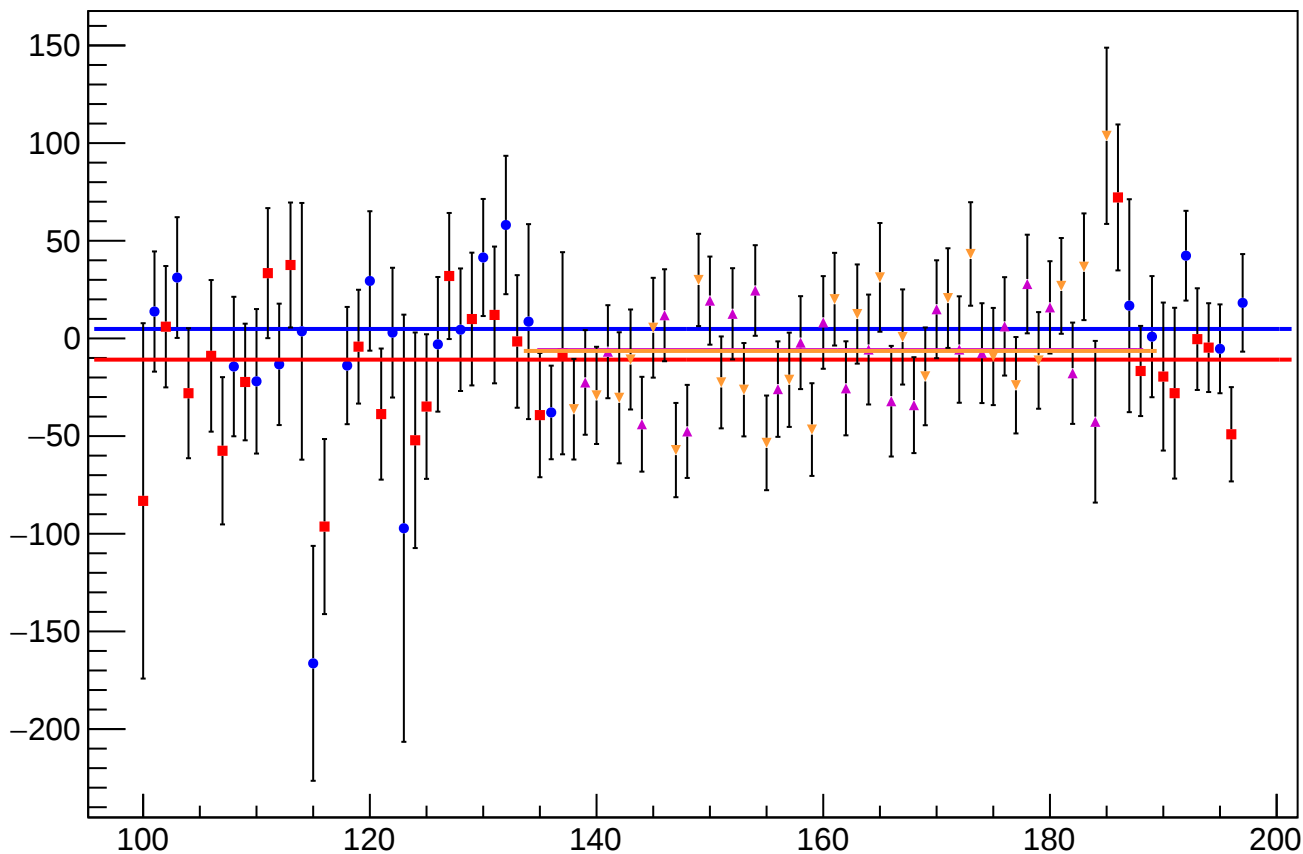
Right: 16.329 $\pm$ 0.003 χ^2 /NDF: 118958.1/47

In: 15.916 $\pm$ 0.002 χ^2 /NDF: 217500.3/44

Out: 15.998 $\pm$ 0.002 χ^2 /NDF: 253347.0/50

All: 15.959 $\pm$ 0.001 χ^2 /NDF: 471582.8/95

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.851 ± 6.940 $\chi^2/\text{NDF}: 22.0/21$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -10.857 ± 6.474 $\chi^2/\text{NDF}: 23.7/25$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

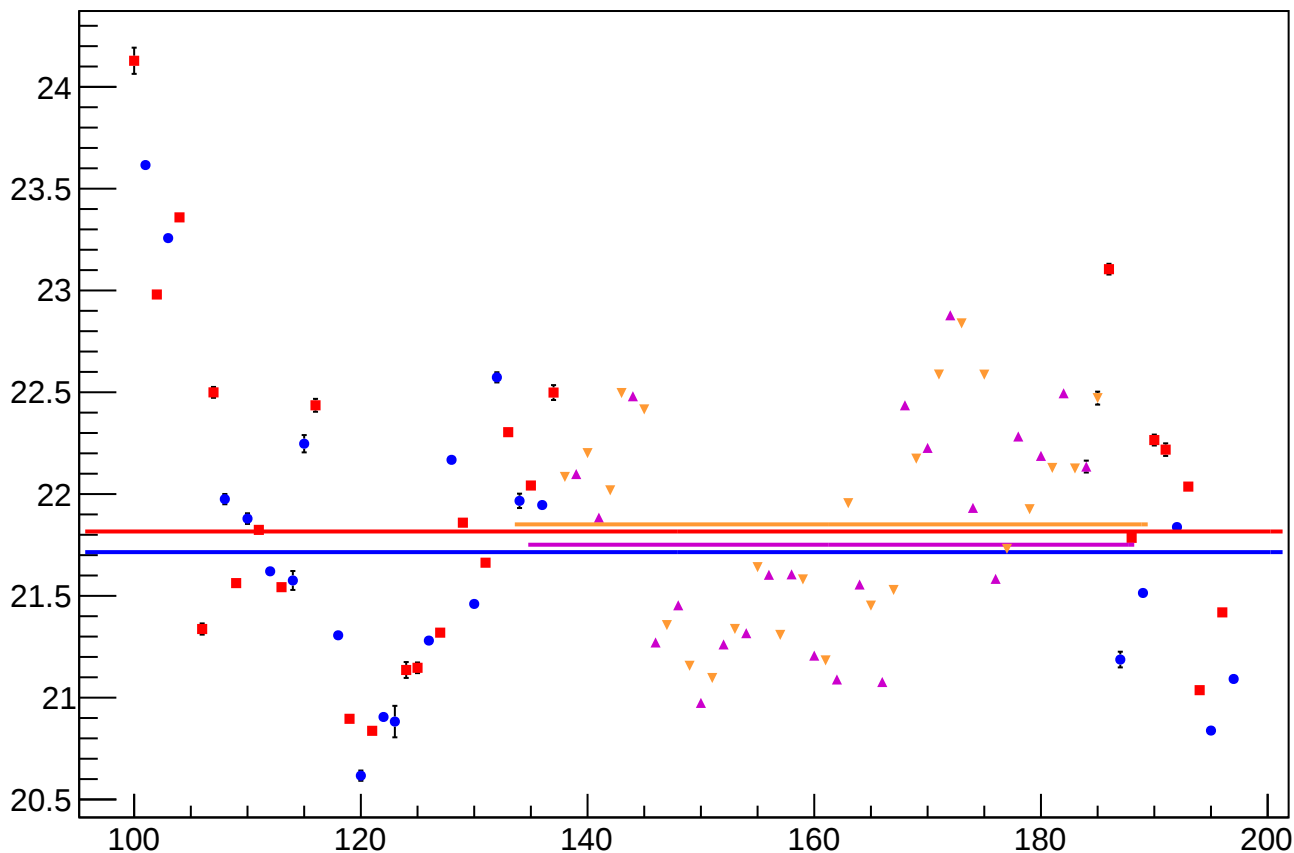
Right: -3.548 ± 4.734 $\chi^2/\text{NDF}: 48.4/47$

In: -2.063 ± 4.173 $\chi^2/\text{NDF}: 42.1/44$

Out: -8.106 ± 4.002 $\chi^2/\text{NDF}: 61.4/50$

All: -5.210 ± 2.888 $\chi^2/\text{NDF}: 104.6/95$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.715 $\pm$ 0.005 χ^2 /NDF: 23343.8/21

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.816 $\pm$ 0.005 χ^2 /NDF: 21930.8/25

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

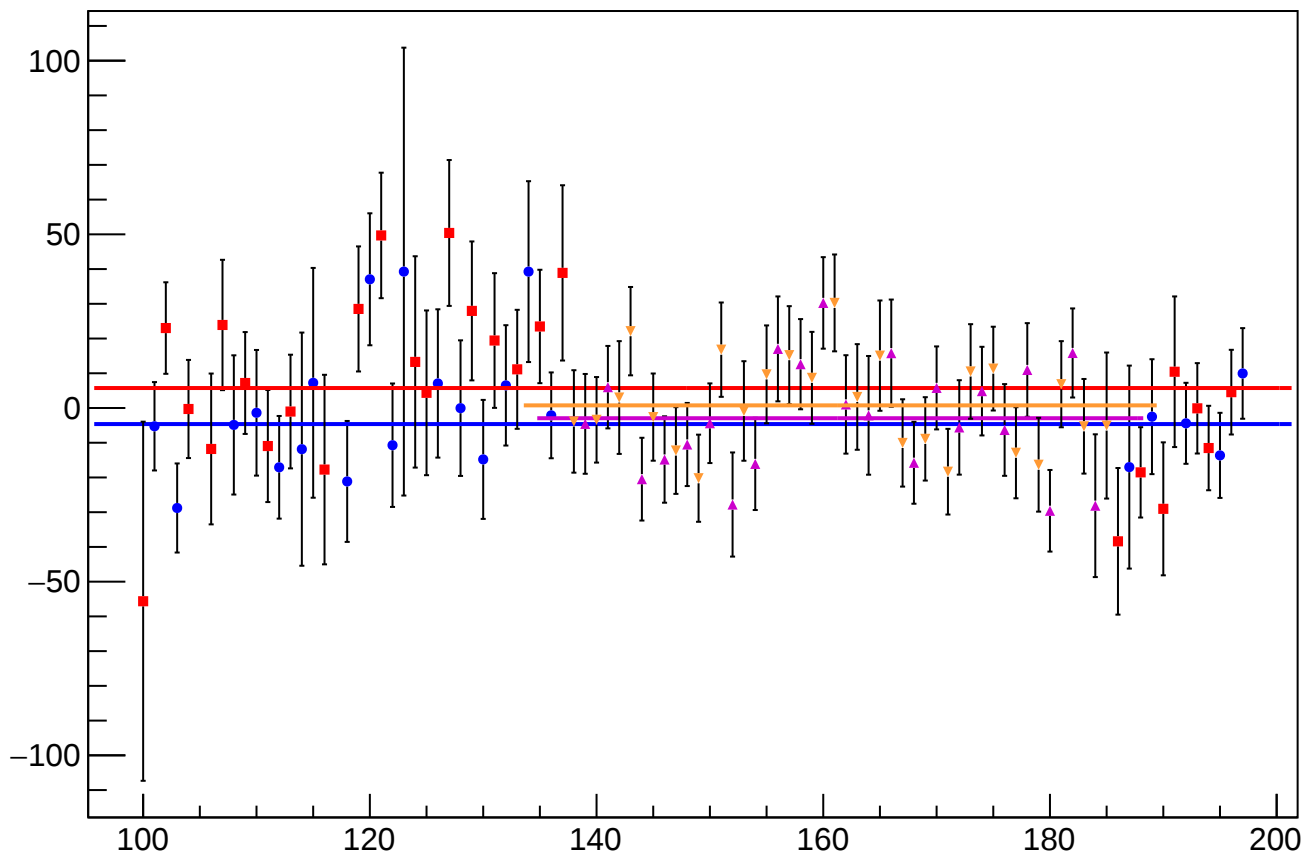
Right: 21.769 $\pm$ 0.003 χ^2 /NDF: 45502.8/47

In: 21.738 $\pm$ 0.003 χ^2 /NDF:43895.2/44

Out: 21.838 $\pm$ 0.003 χ^2 /NDF:41598.6/50

All: 21.790 $\pm$ 0.002 χ^2 /NDF: 86088.9/95

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.626 ± 3.581 χ^2/NDF : 16.8/21

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 5.750 ± 3.385 χ^2/NDF : 37.2/25

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

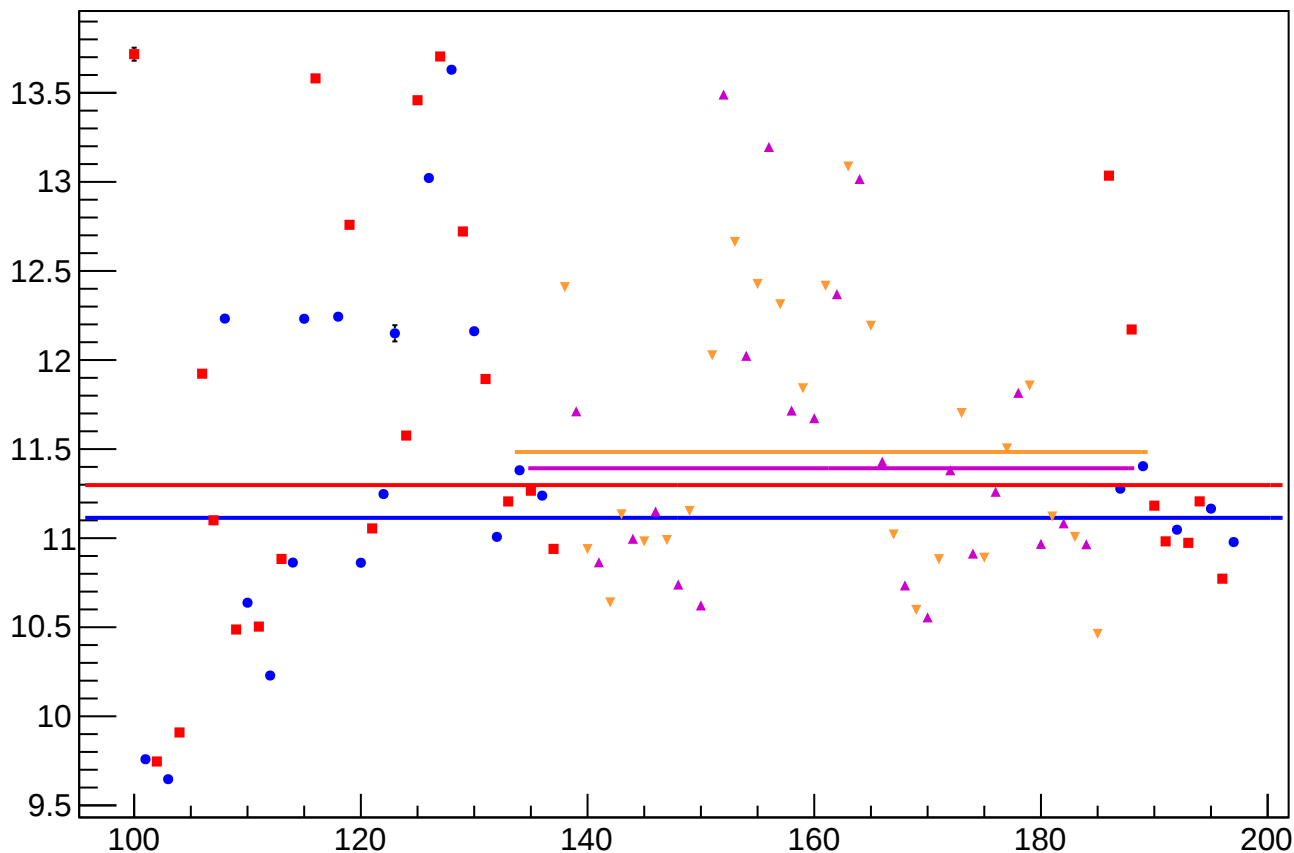
Right: 0.854 ± 2.460 χ^2/NDF : 58.3/47

In: -3.570 ± 2.185 χ^2/NDF : 47.8/44

Out: 2.698 ± 2.110 χ^2/NDF : 62.3/50

All: -0.327 ± 1.518 χ^2/NDF : 114.4/95

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.114 $\pm$ 0.003 χ^2 /NDF: 133593.3/21

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 11.298 $\pm$ 0.002 χ^2 /NDF: 176732.4/25

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

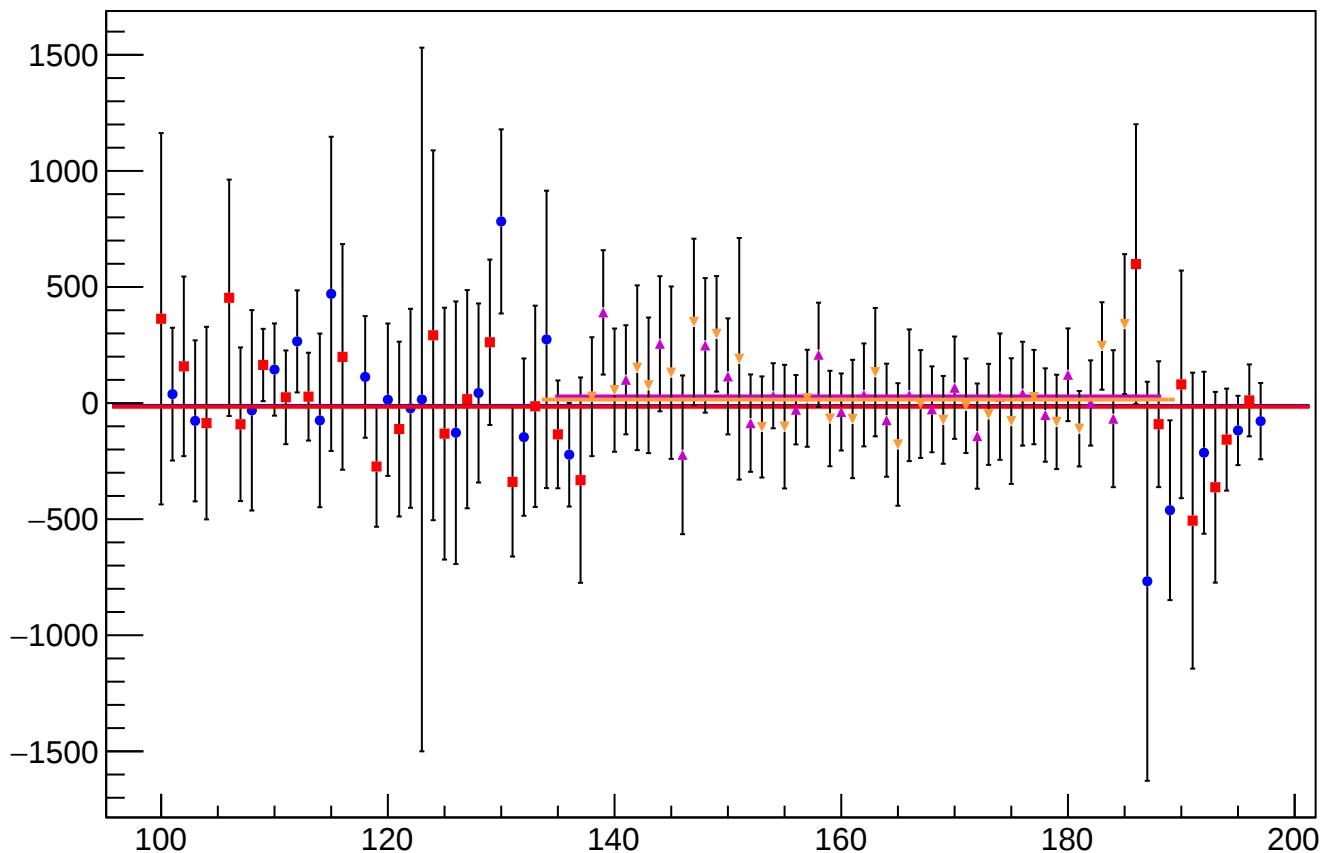
Right: 11.211 $\pm$ 0.002 χ^2 /NDF: 313107.4/47

In: 11.289 $\pm$ 0.002 χ^2 /NDF:291669.6/44

Out: 11.412 $\pm$ 0.001 χ^2 /NDF:310223.5/50

All: 11.352 $\pm$ 0.001 χ^2 /NDF: 605157.2/95

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -12.680 $\pm$ 62.429 χ^2 /NDF: 11.5/21

Left Out: 15.130 $\pm$ 47.705 χ^2 /NDF:8.0/24

Right Out: -15.755 $\pm$ 58.299 χ^2 /NDF: 9.5/25

Left In: 28.500 $\pm$ 44.797 χ^2 /NDF:6.4/22

Left: 22.235 $\pm$ 32.656 χ^2 /NDF: 14.4/47

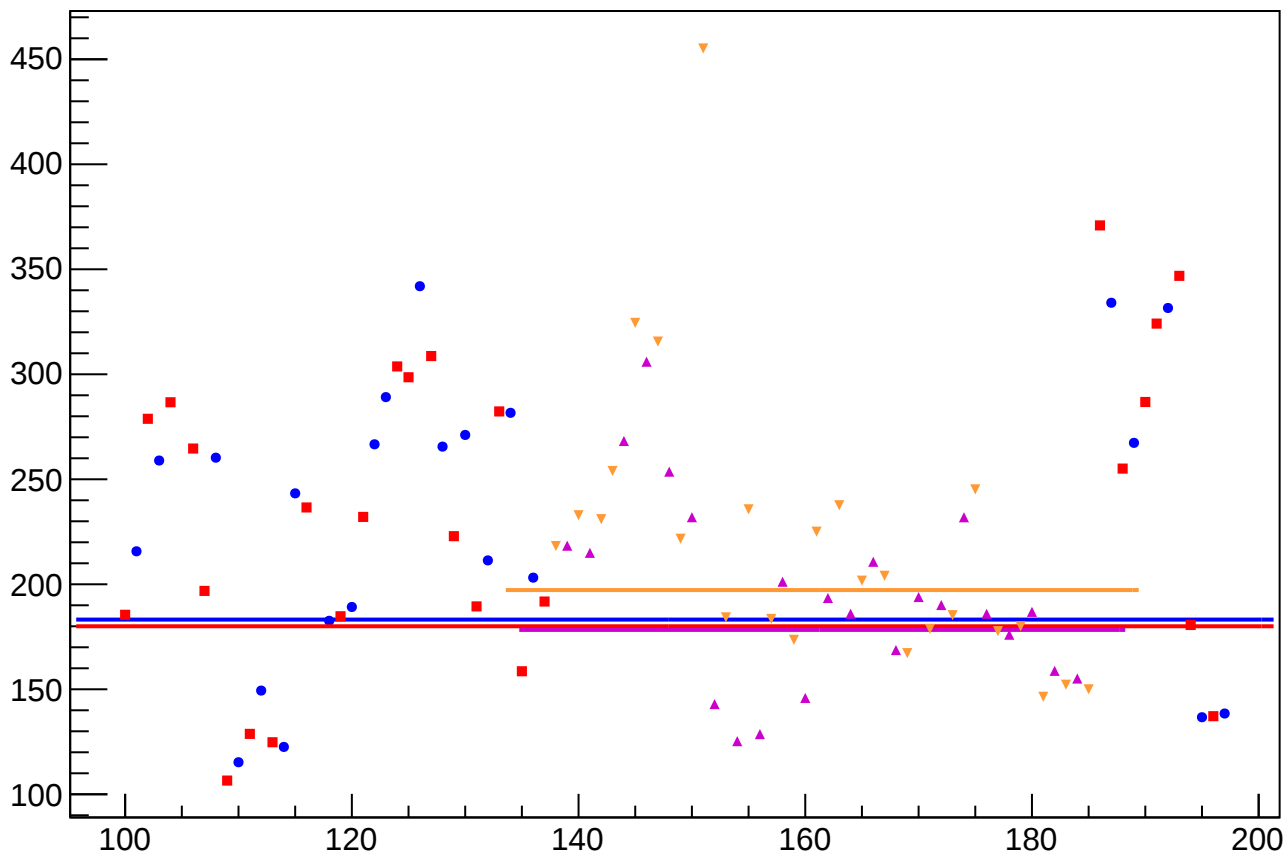
Right: -14.322 $\pm$ 42.609 χ^2 /NDF: 21.0/47

In: 14.504 $\pm$ 36.396 χ^2 /NDF:18.2/44

Out: 2.744 $\pm$ 36.920 χ^2 /NDF:17.7/50

All: 8.708 $\pm$ 25.919 χ^2 /NDF: 35.9/95

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.193 $\pm$ 0.044 χ^2/NDF : 1905421.7/21

Left Out: 197.249 $\pm$ 0.034 χ^2/NDF : 1786808.1/24

Right Out: 180.007 $\pm$ 0.041 χ^2/NDF : 2622597.2/25

Left In: 178.277 $\pm$ 0.032 χ^2/NDF : 1628916.6/22

Left: 187.167 $\pm$ 0.023 χ^2/NDF : 3583826.5/47

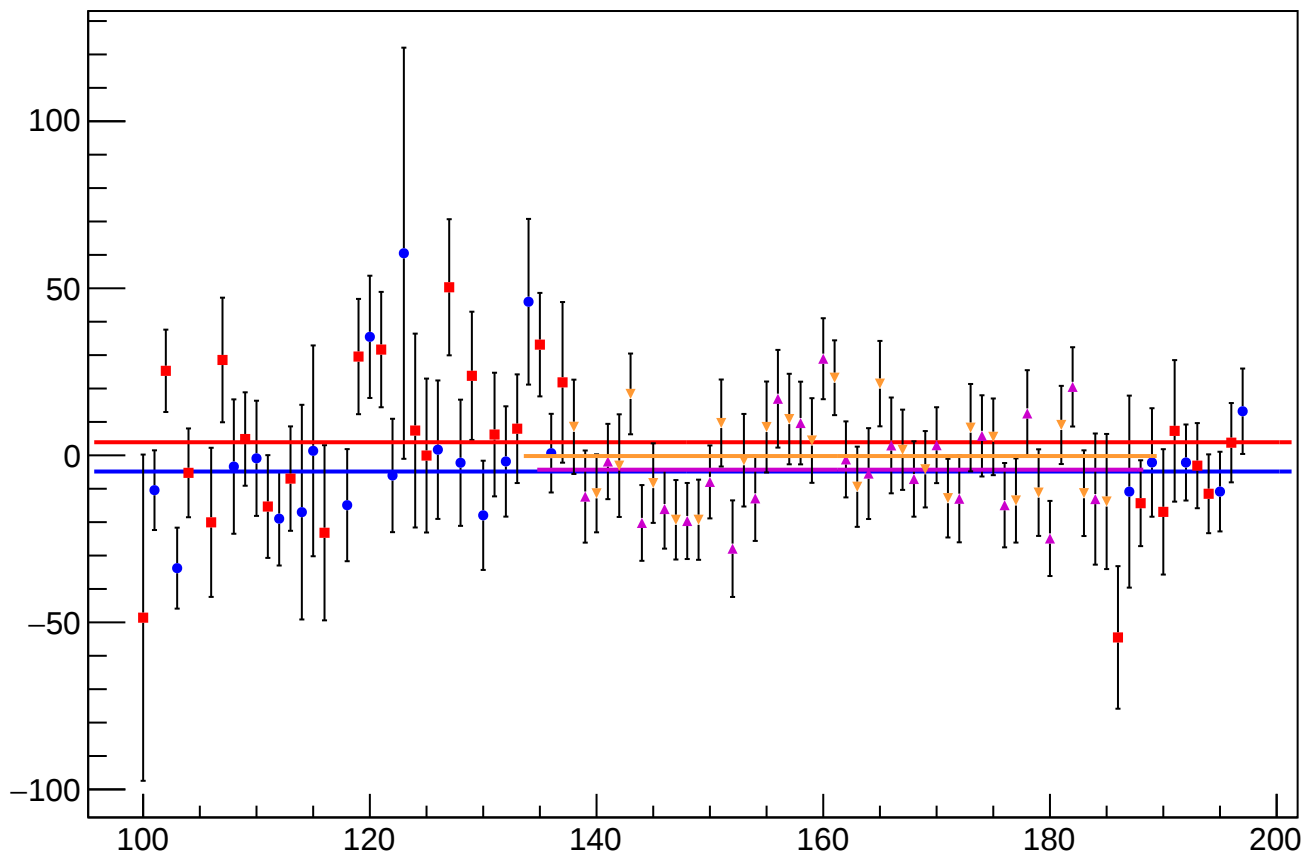
Right: 181.491 $\pm$ 0.030 χ^2/NDF : 4530801.4/47

In: 179.948 $\pm$ 0.026 χ^2/NDF : 3542524.6/44

Out: 190.334 $\pm$ 0.026 χ^2/NDF : 4514189.7/50

All: 185.067 $\pm$ 0.018 χ^2/NDF : 8136987.7/95

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.845 ± 3.445 $\chi^2/\text{NDF}: 21.1/21$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 3.920 ± 3.267 $\chi^2/\text{NDF}: 38.7/25$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

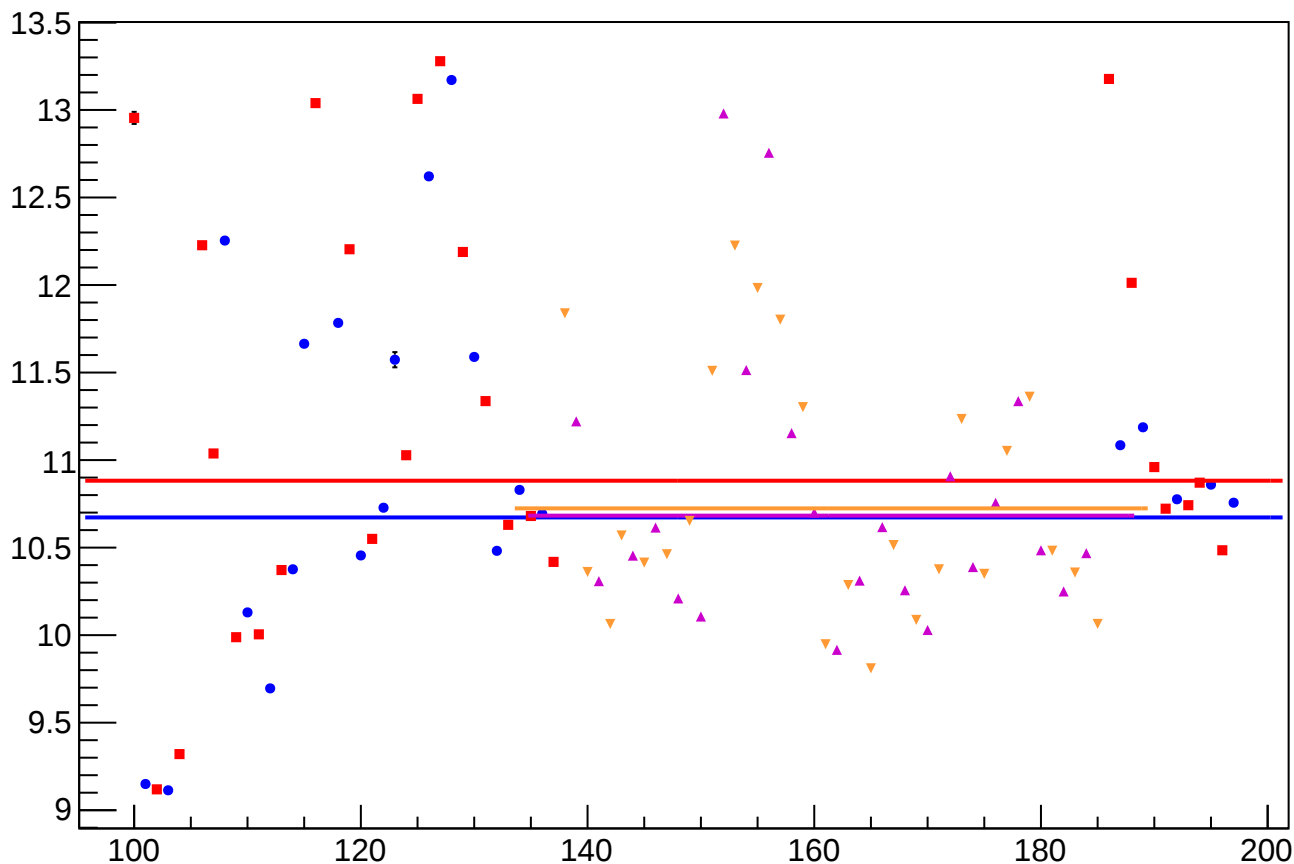
Right: -0.230 ± 2.370 $\chi^2/\text{NDF}: 63.2/47$

In: -4.495 ± 2.070 $\chi^2/\text{NDF}: 52.7/44$

Out: 1.333 ± 1.997 $\chi^2/\text{NDF}: 64.3/50$

All: -1.477 ± 1.437 $\chi^2/\text{NDF}: 121.1/95$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.672 $\pm$ 0.002 χ^2 /NDF: 163867.7/21

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.882 $\pm$ 0.002 χ^2 /NDF: 221282.0/25

Left In: 10.683 $\pm$ 0.002 χ^2 /NDF:147835.6/22

Left: 10.704 $\pm$ 0.001 χ^2 /NDF: 280658.8/47

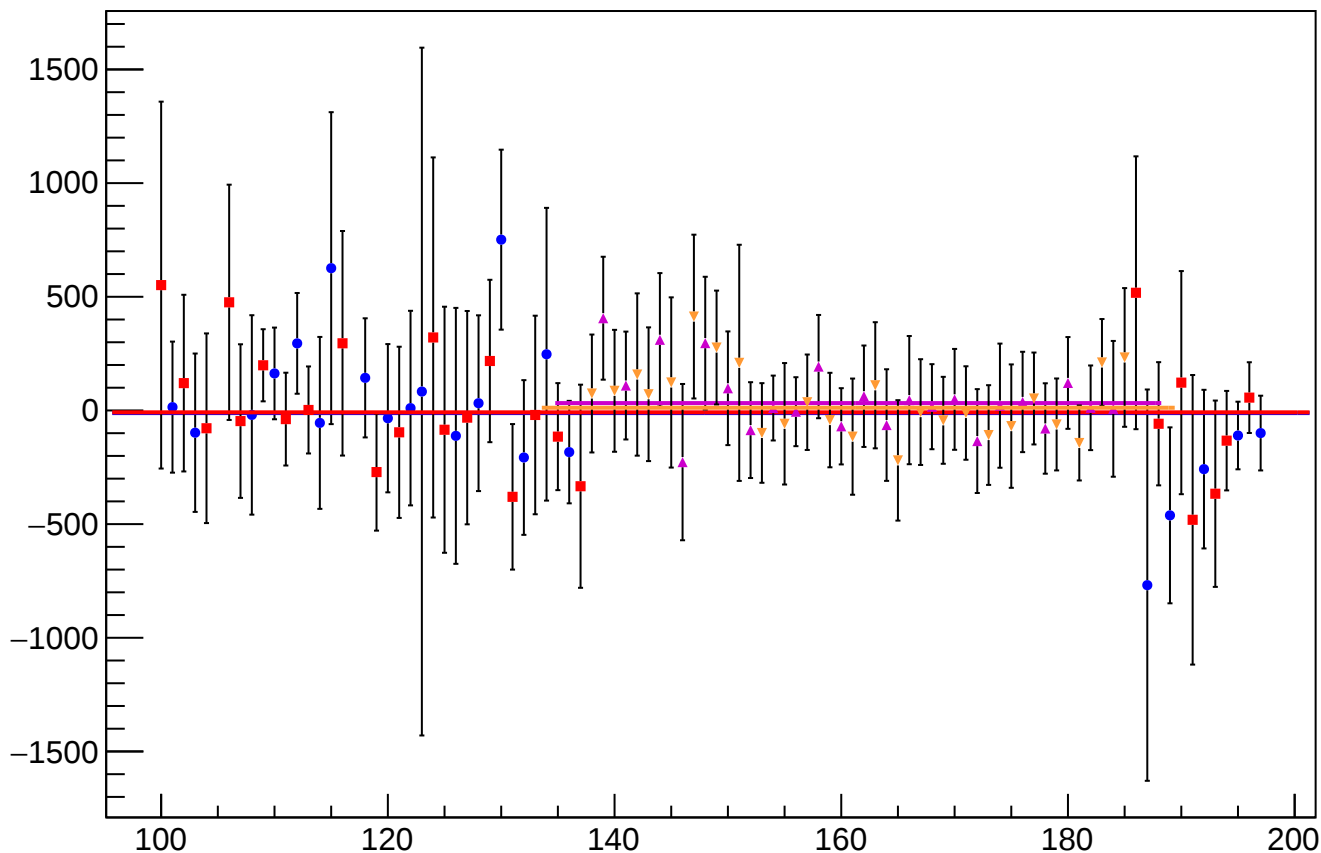
Right: 10.783 $\pm$ 0.002 χ^2 /NDF: 389053.7/47

In: 10.679 $\pm$ 0.001 χ^2 /NDF:311714.6/44

Out: 10.783 $\pm$ 0.001 χ^2 /NDF:356769.4/50

All: 10.733 $\pm$ 0.001 χ^2 /NDF: 671113.6/95

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -11.606 ± 62.643 $\chi^2/\text{NDF}: 12.1/21$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -8.243 ± 58.694 $\chi^2/\text{NDF}: 10.1/25$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

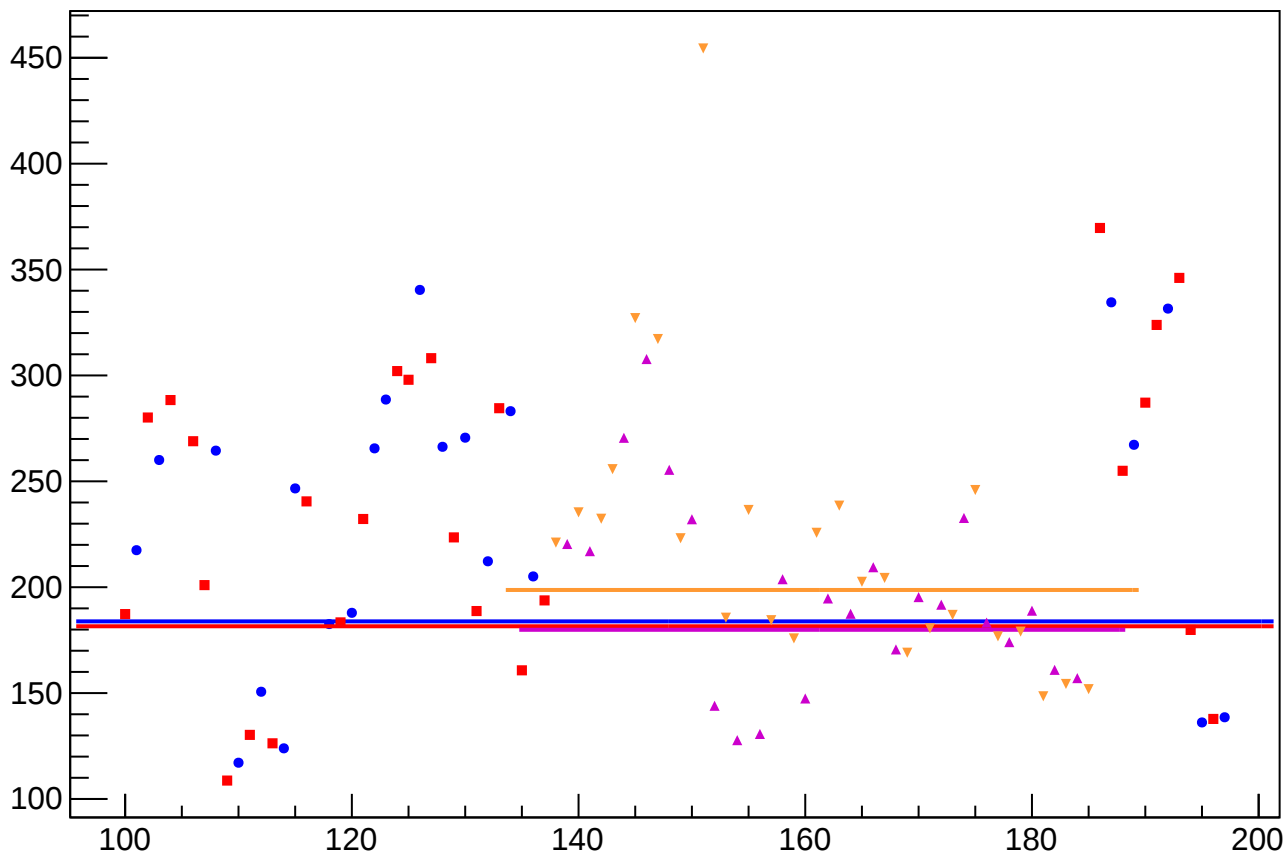
Right: -9.816 ± 42.831 $\chi^2/\text{NDF}: 22.2/47$

In: 17.361 ± 36.630 $\chi^2/\text{NDF}: 19.4/44$

Out: 3.817 ± 37.167 $\chi^2/\text{NDF}: 17.8/50$

All: 10.688 ± 26.089 $\chi^2/\text{NDF}: 37.2/95$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.869 $\pm$ 0.044 χ^2 /NDF: 1895472.0/21

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 181.554 $\pm$ 0.042 χ^2 /NDF: 2561035.7/25

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

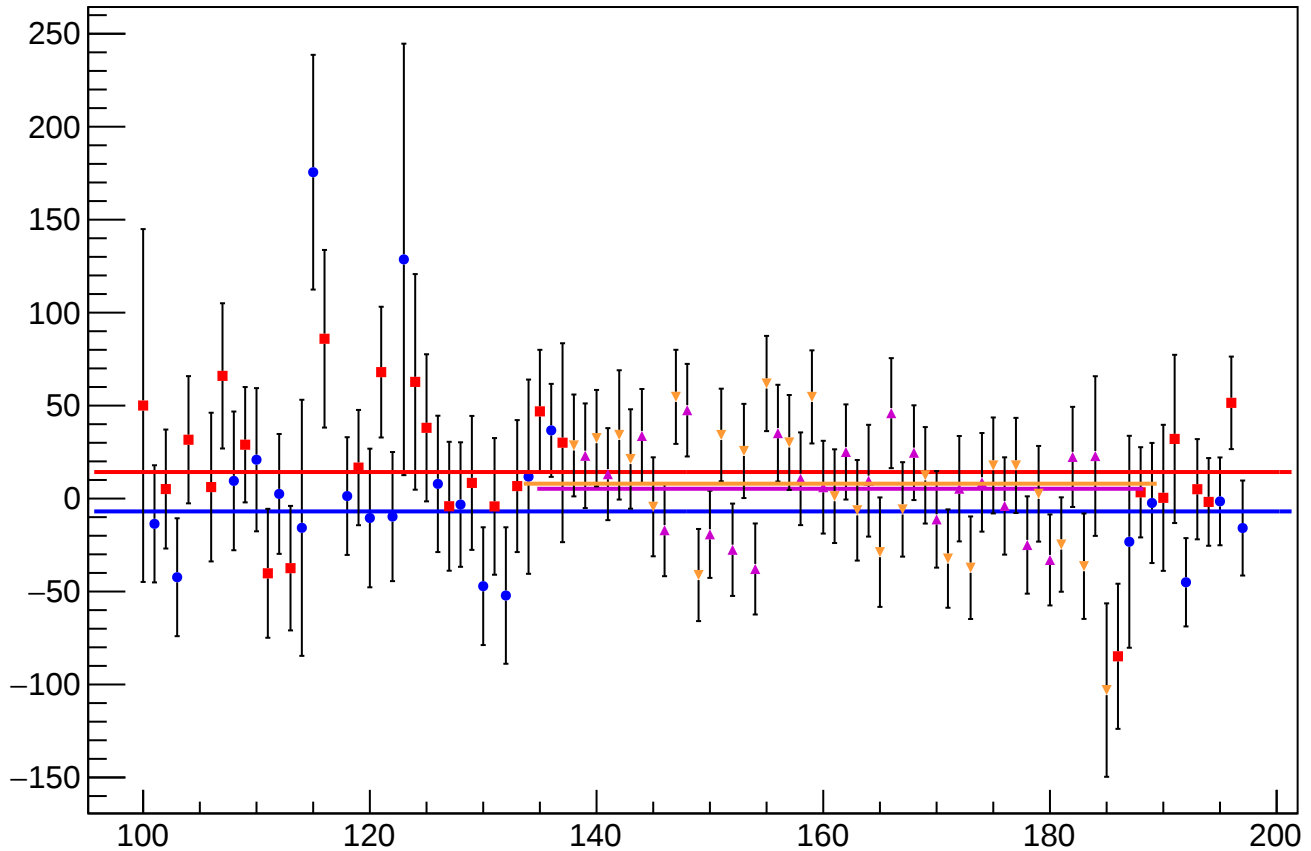
Right: 182.636 $\pm$ 0.030 χ^2 /NDF: 4457962.7/47

In: 181.248 $\pm$ 0.026 χ^2 /NDF:3481429.1/44

Out: 191.822 $\pm$ 0.026 χ^2 /NDF:4422523.7/50

All: 186.458 $\pm$ 0.018 χ^2 /NDF: 7986060.4/95

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.912 ± 7.228 $\chi^2/\text{NDF}: 21.2/21$

Left Out: 8.004 ± 5.334 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 14.268 ± 6.759 $\chi^2/\text{NDF}: 24.4/25$

Left In: 5.261 ± 5.465 $\chi^2/\text{NDF}: 20.8/22$

Left: 6.665 ± 3.817 $\chi^2/\text{NDF}: 58.3/47$

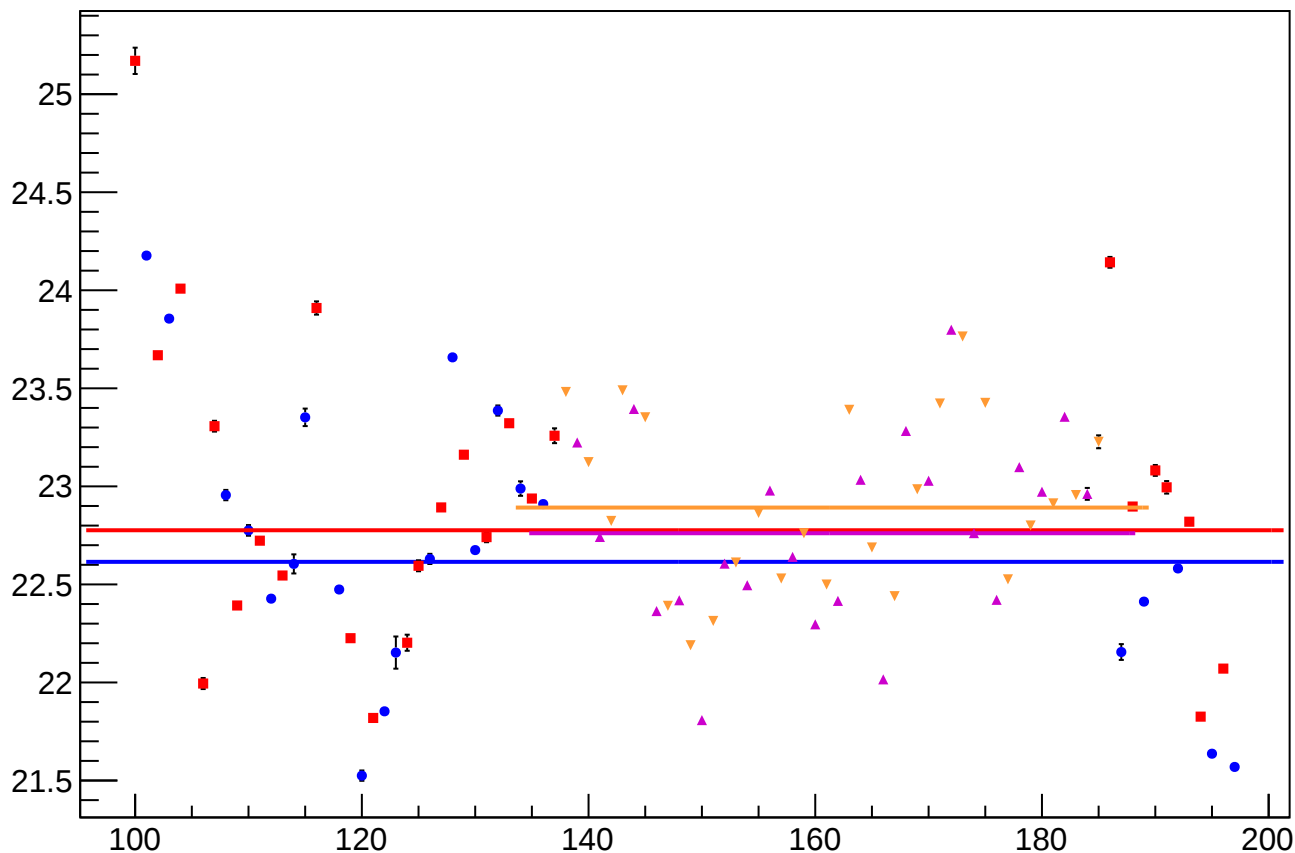
Right: 4.388 ± 4.937 $\chi^2/\text{NDF}: 50.2/47$

In: 0.833 ± 4.359 $\chi^2/\text{NDF}: 43.8/44$

Out: 10.408 ± 4.187 $\chi^2/\text{NDF}: 62.4/50$

All: 5.813 ± 3.020 $\chi^2/\text{NDF}: 108.7/95$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.615 $\pm$ 0.005 χ^2 /NDF: 21469.5/21

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.776 $\pm$ 0.005 χ^2 /NDF: 18904.3/25

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

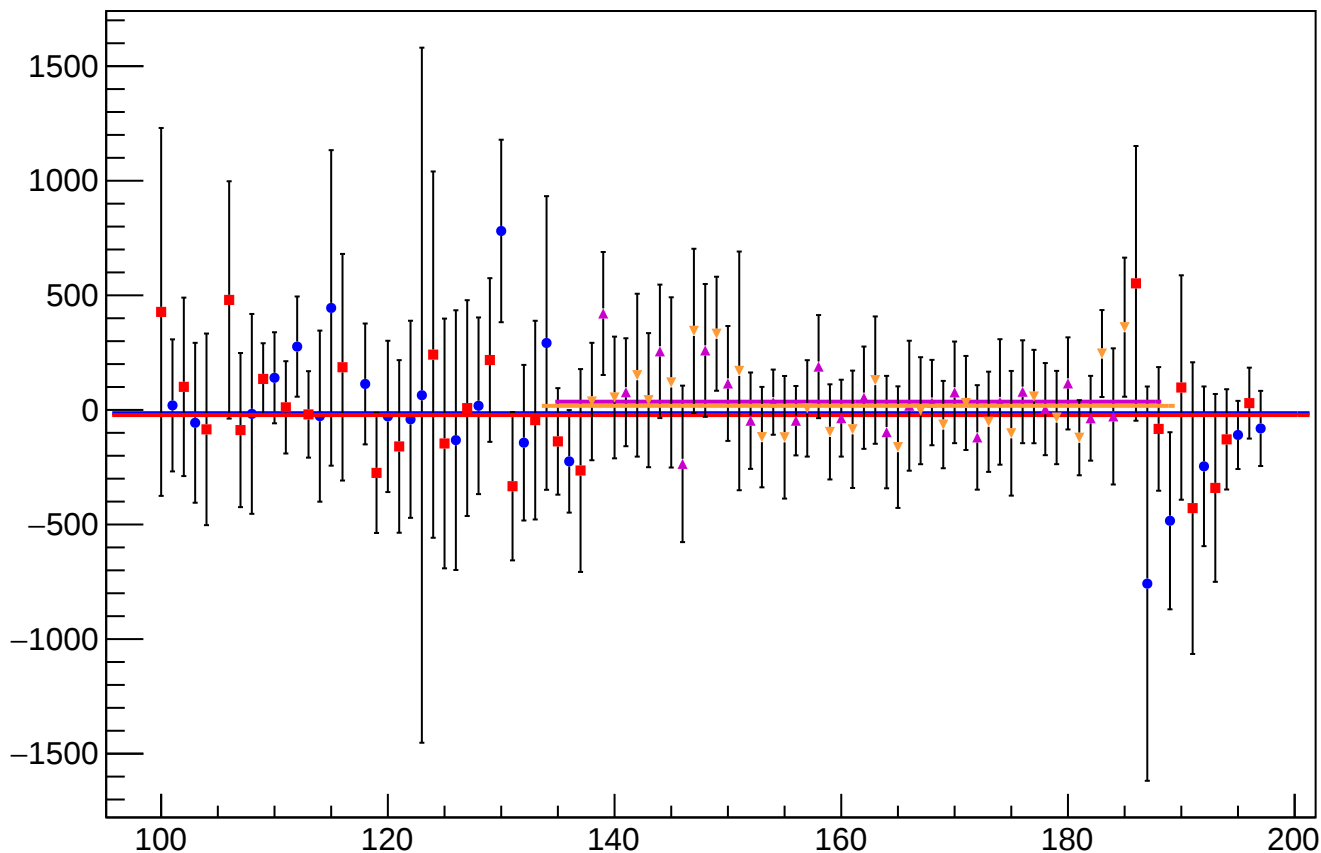
Right: 22.701 $\pm$ 0.003 χ^2 /NDF: 40903.7/47

In: 22.708 $\pm$ 0.003 χ^2 /NDF:36537.5/44

Out: 22.848 $\pm$ 0.003 χ^2 /NDF:32261.3/50

All: 22.781 $\pm$ 0.002 χ^2 /NDF: 69865.7/95

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -14.327 ± 62.450 χ^2/NDF : 11.6/21

Left Out: 17.777 ± 47.941 χ^2/NDF : 8.5/24

Right Out: -22.487 ± 58.351 χ^2/NDF : 8.2/25

Left In: 35.879 ± 45.087 χ^2/NDF : 6.3/22

Left: 27.383 ± 32.844 χ^2/NDF : 14.9/47

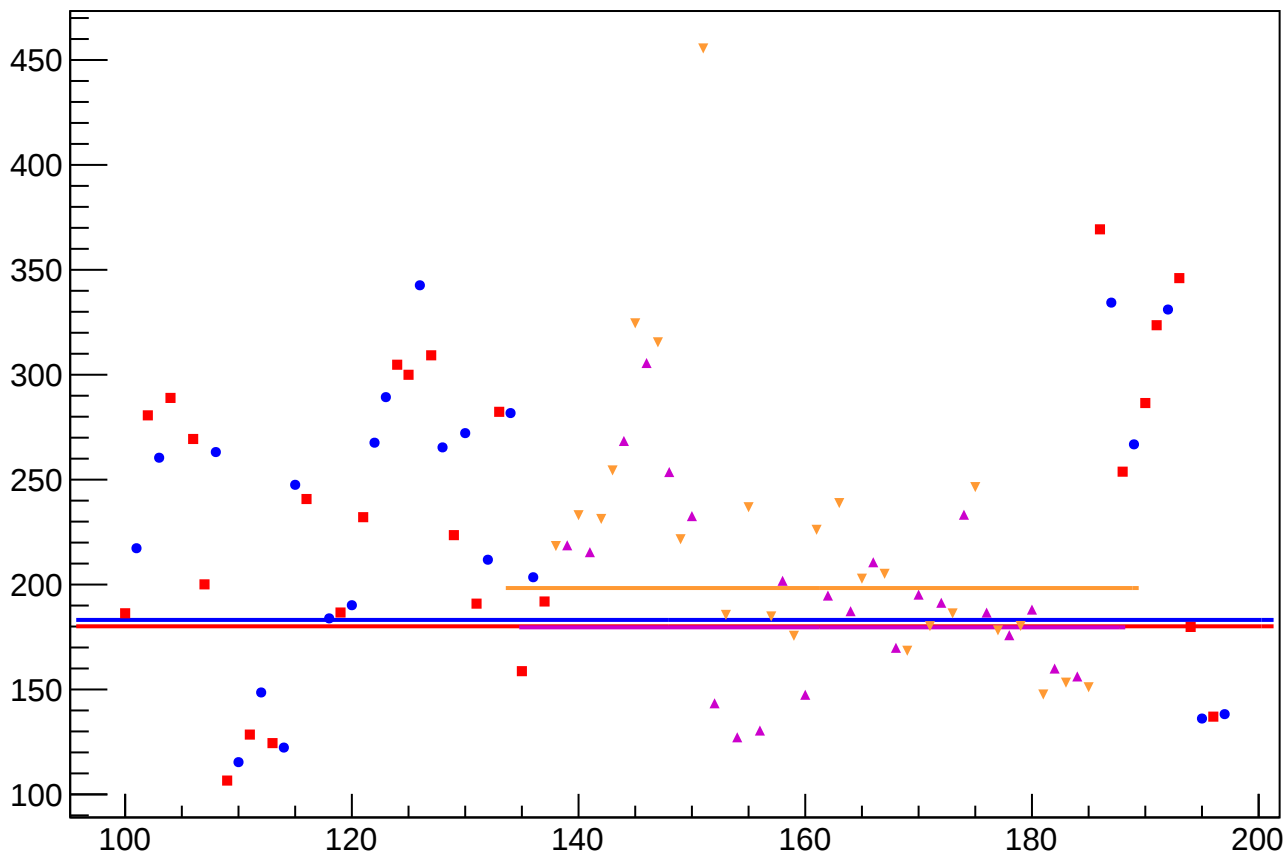
Right: -18.684 ± 42.636 χ^2/NDF : 19.8/47

In: 18.676 ± 36.556 χ^2/NDF : 18.4/44

Out: 1.551 ± 37.042 χ^2/NDF : 17.0/50

All: 10.227 ± 26.019 χ^2/NDF : 35.5/95

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.150+/-0.044 χ^2/NDF : 1928457.4/21

Left Out: 198.344+/-0.034 χ^2/NDF : 1757450.6/24

Right Out: 180.106+/-0.041 χ^2/NDF : 2641422.4/25

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

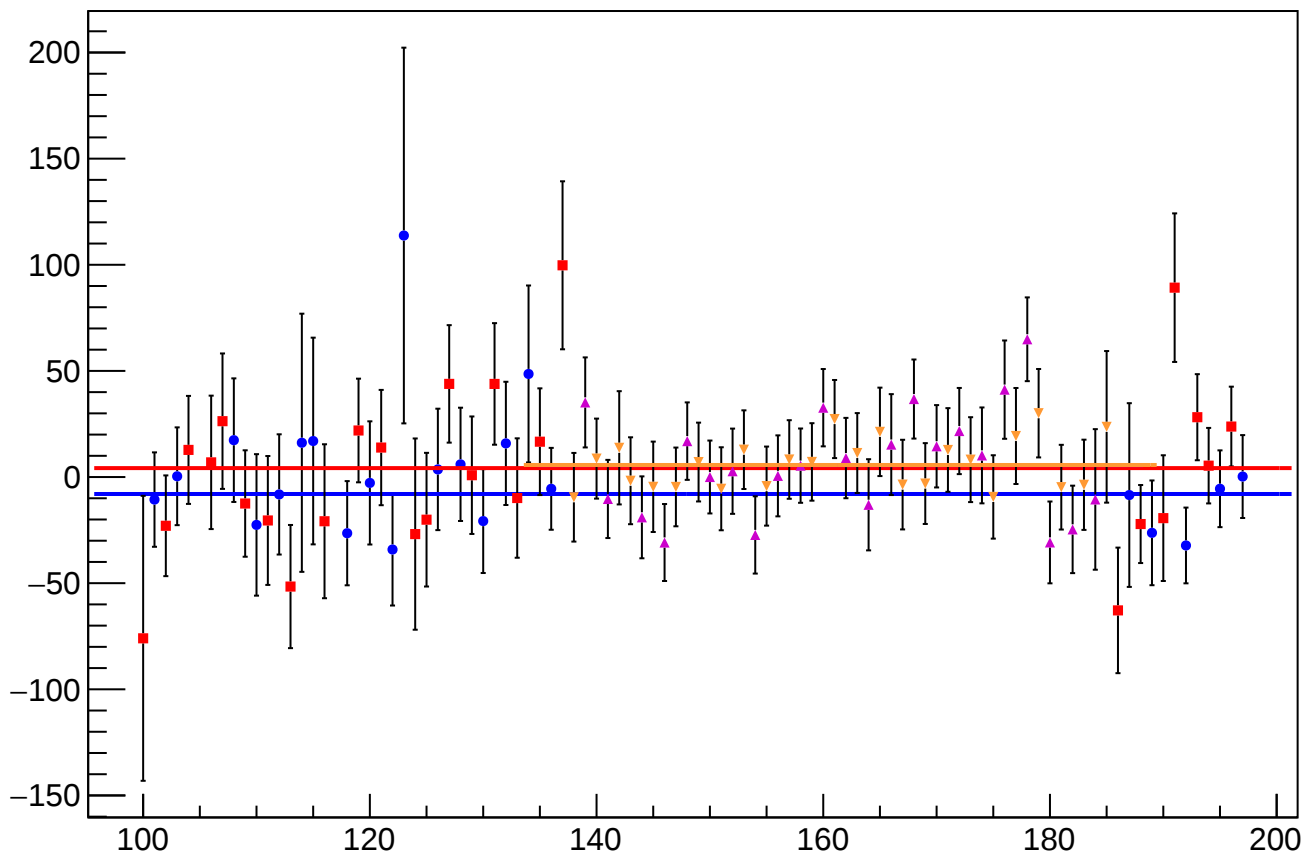
Right: 181.525+/-0.030 χ^2/NDF : 4572415.5/47

In: 180.820+/-0.026 χ^2/NDF : 3508437.0/44

Out: 190.994+/-0.026 χ^2/NDF : 4515509.2/50

All: 185.840+/-0.018 χ^2/NDF : 8100389.4/95

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -7.986 ± 5.583 $\chi^2/\text{NDF}: 10.8/21$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 4.211 ± 5.234 $\chi^2/\text{NDF}: 36.9/25$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

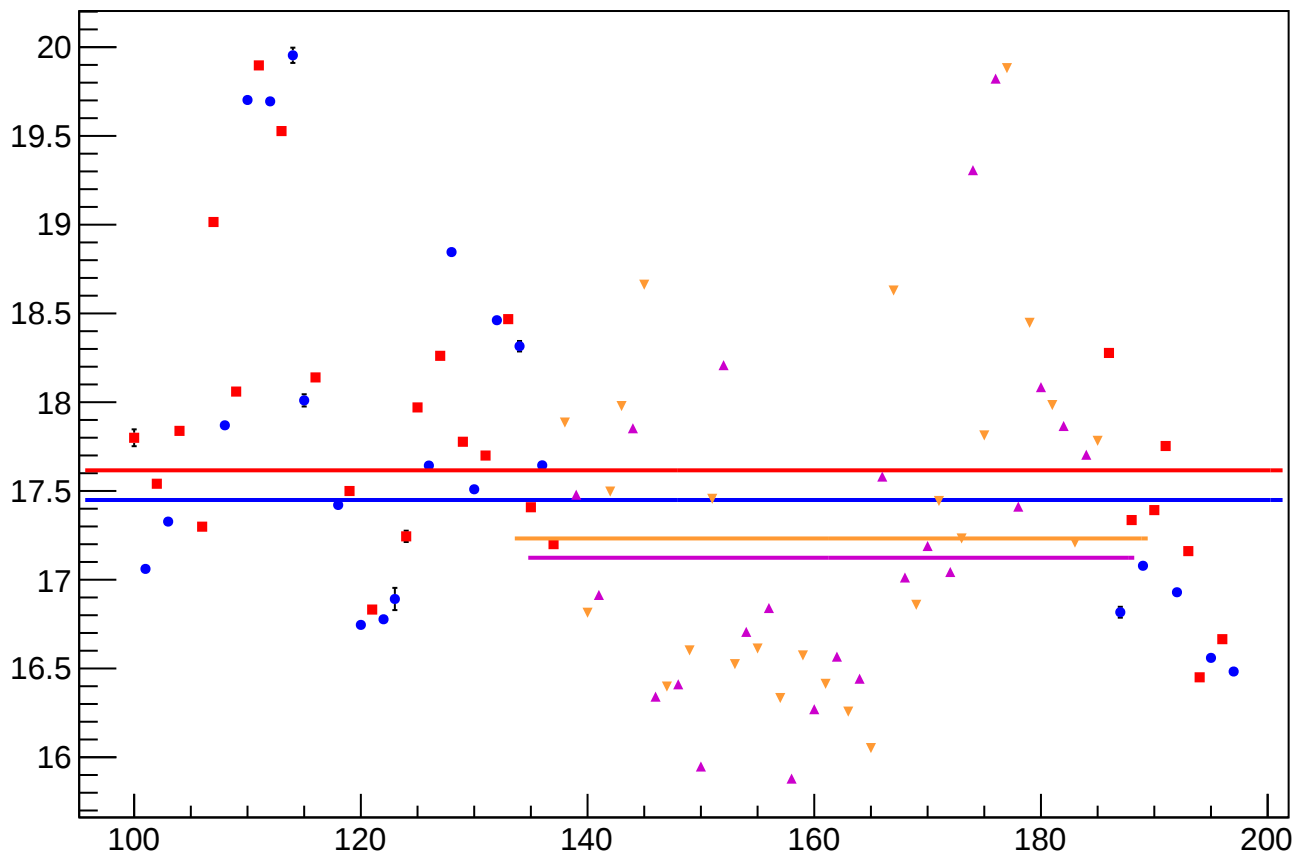
Right: -1.495 ± 3.819 $\chi^2/\text{NDF}: 50.2/47$

In: 0.805 ± 3.316 $\chi^2/\text{NDF}: 51.0/44$

Out: 5.135 ± 3.190 $\chi^2/\text{NDF}: 44.7/50$

All: 3.053 ± 2.299 $\chi^2/\text{NDF}: 96.6/95$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.449 $\pm$ 0.004 χ^2 /NDF: 50407.8/21

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF: 98701.0/24

Right Out: 17.616 $\pm$ 0.004 χ^2 /NDF: 47046.1/25

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF: 100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2 /NDF: 200160.6/47

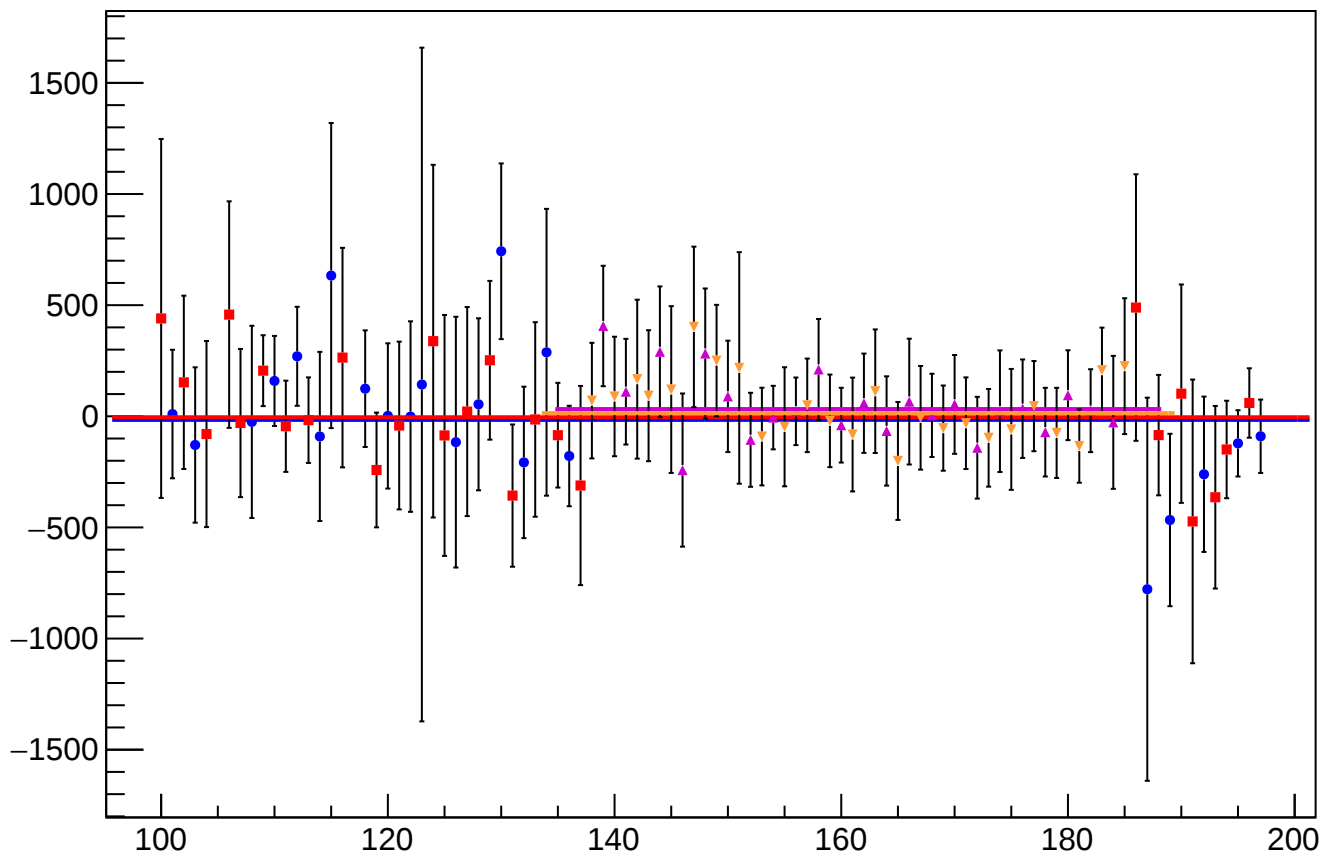
Right: 17.538 $\pm$ 0.003 χ^2 /NDF: 98407.6/47

In: 17.239 $\pm$ 0.002 χ^2 /NDF: 155552.1/44

Out: 17.375 $\pm$ 0.002 χ^2 /NDF: 152504.9/50

All: 17.309 $\pm$ 0.002 χ^2 /NDF: 309816.8/95

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -16.082 ± 62.810 $\chi^2/\text{NDF}: 11.9/21$

Left Out: 14.362 ± 48.130 $\chi^2/\text{NDF}: 6.9/24$

Right Out: -4.321 ± 58.825 $\chi^2/\text{NDF}: 9.5/25$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

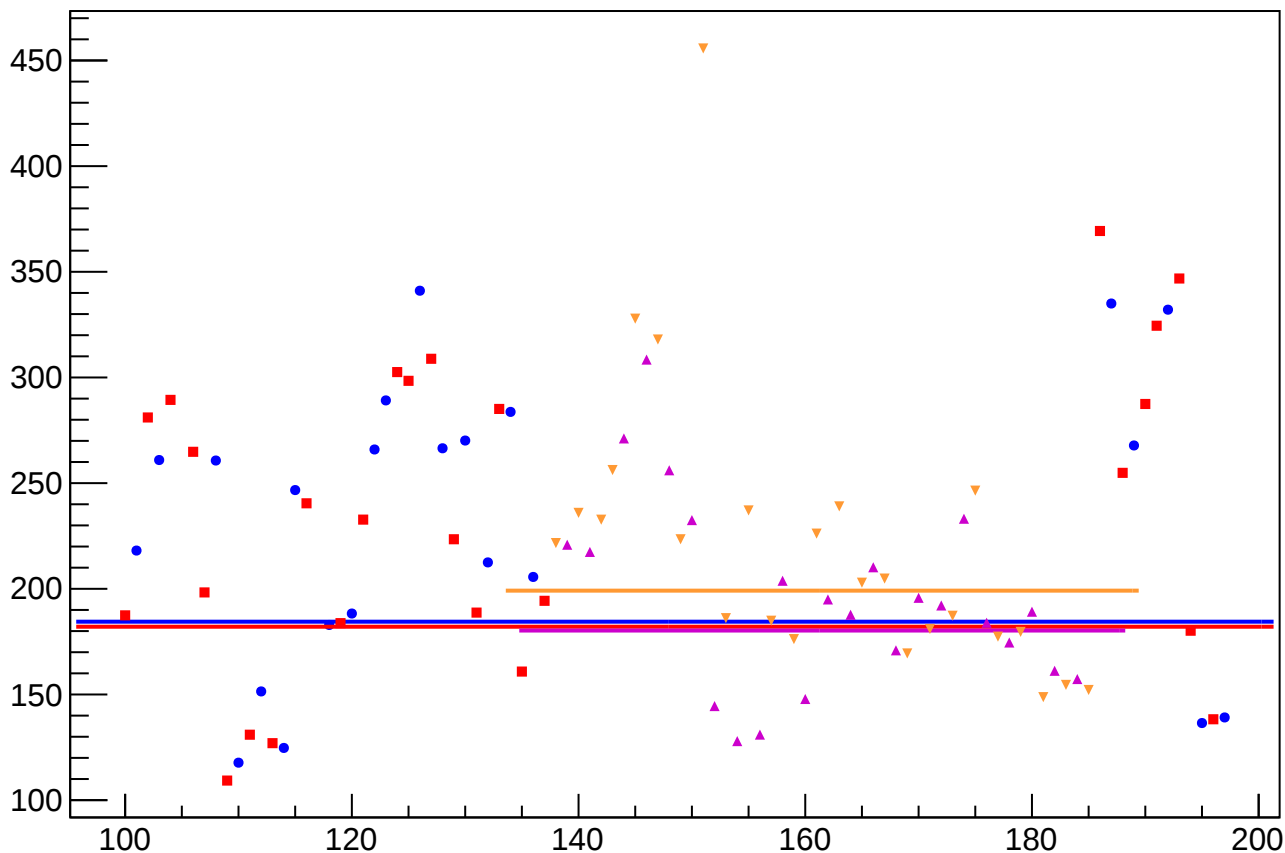
Right: -9.817 ± 42.935 $\chi^2/\text{NDF}: 21.4/47$

In: 15.948 ± 36.713 $\chi^2/\text{NDF}: 19.0/44$

Out: 6.871 ± 37.250 $\chi^2/\text{NDF}: 16.5/50$

All: 11.475 ± 26.148 $\chi^2/\text{NDF}: 35.5/95$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 184.447 $\pm$ 0.044 χ^2 /NDF: 1878352.1/21

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 182.065 $\pm$ 0.042 χ^2 /NDF: 2537461.6/25

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

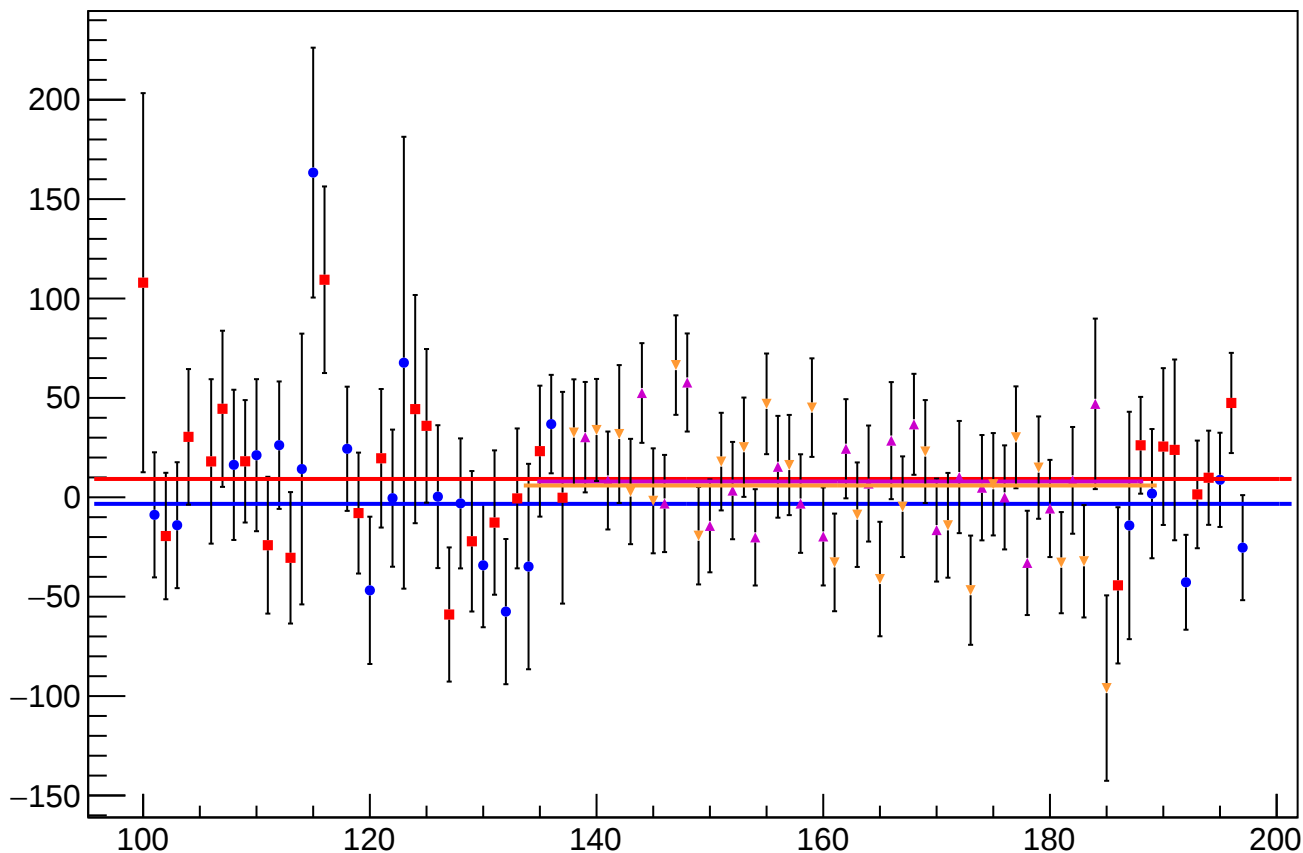
Right: 183.178 $\pm$ 0.030 χ^2 /NDF: 4417345.6/47

In: 181.688 $\pm$ 0.026 χ^2 /NDF:3464767.2/44

Out: 192.291 $\pm$ 0.026 χ^2 /NDF:4398643.3/50

All: 186.912 $\pm$ 0.018 χ^2 /NDF: 7945602.9/95

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.304 ± 7.214 χ^2/NDF : 21.3/21

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 9.224 ± 6.737 χ^2/NDF : 21.9/25

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

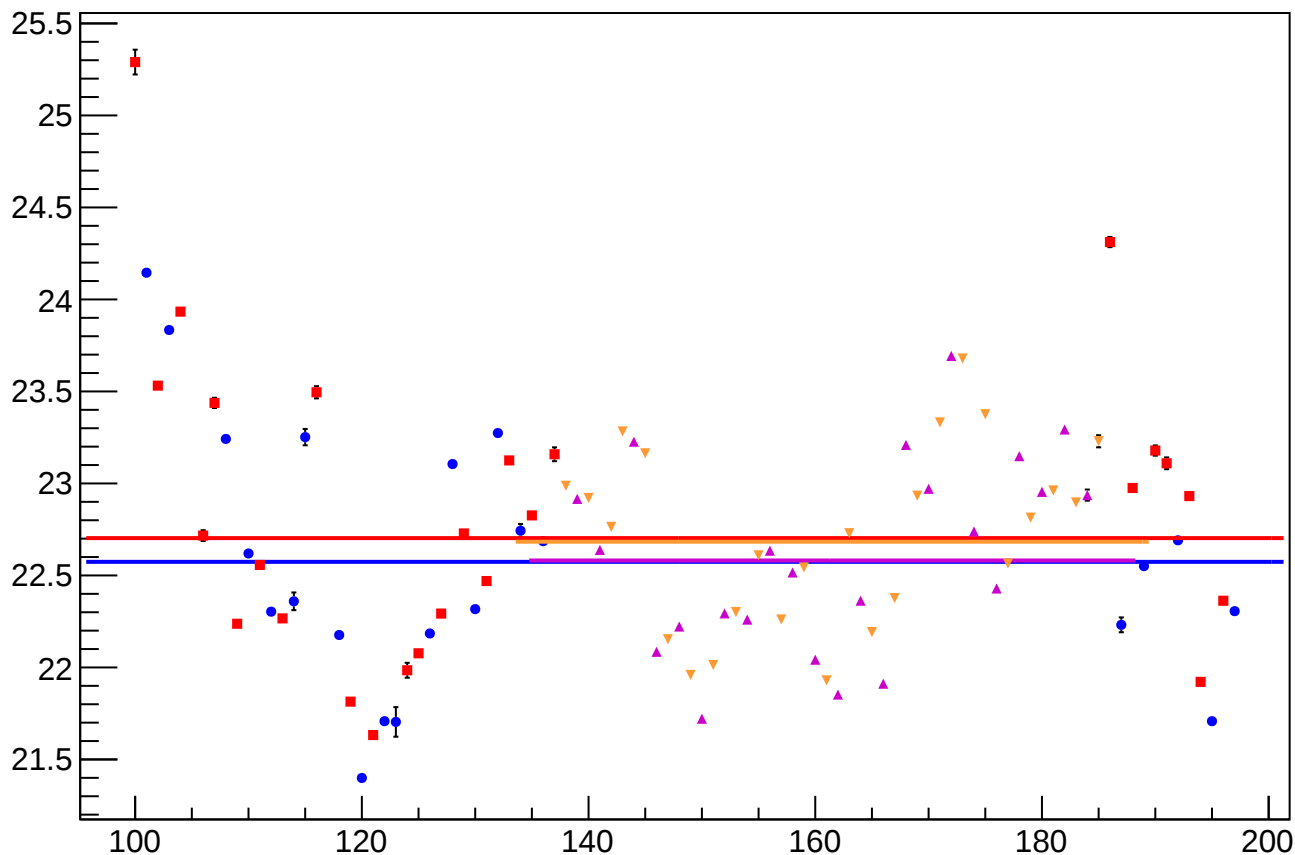
Right: 3.388 ± 4.923 χ^2/NDF : 44.8/47

In: 3.865 ± 4.334 χ^2/NDF : 41.5/44

Out: 7.190 ± 4.158 χ^2/NDF : 58.2/50

All: 5.596 ± 3.000 χ^2/NDF : 100.0/95

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.574+/-0.005 χ^2/NDF : 17580.9/21

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.703+/-0.005 χ^2/NDF : 19554.0/25

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

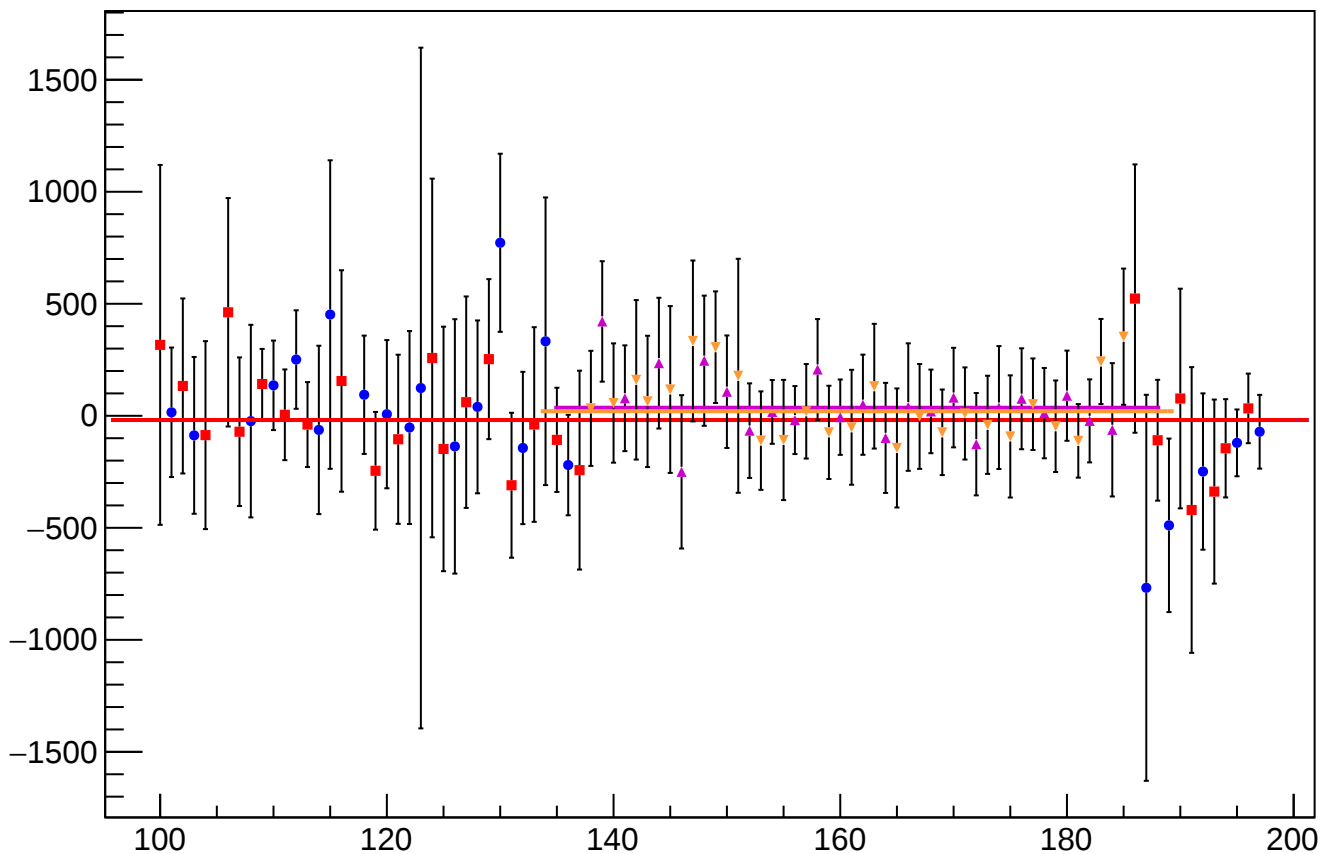
Right: 22.643+/-0.003 χ^2/NDF : 37476.5/47

In: 22.579+/-0.003 χ^2/NDF : 35486.7/44

Out: 22.691+/-0.003 χ^2/NDF : 35884.8/50

All: 22.637+/-0.002 χ^2/NDF : 72067.8/95

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -18.926 ± 62.619 $\chi^2/\text{NDF}: 11.3/21$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -18.659 ± 58.485 $\chi^2/\text{NDF}: 7.7/25$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

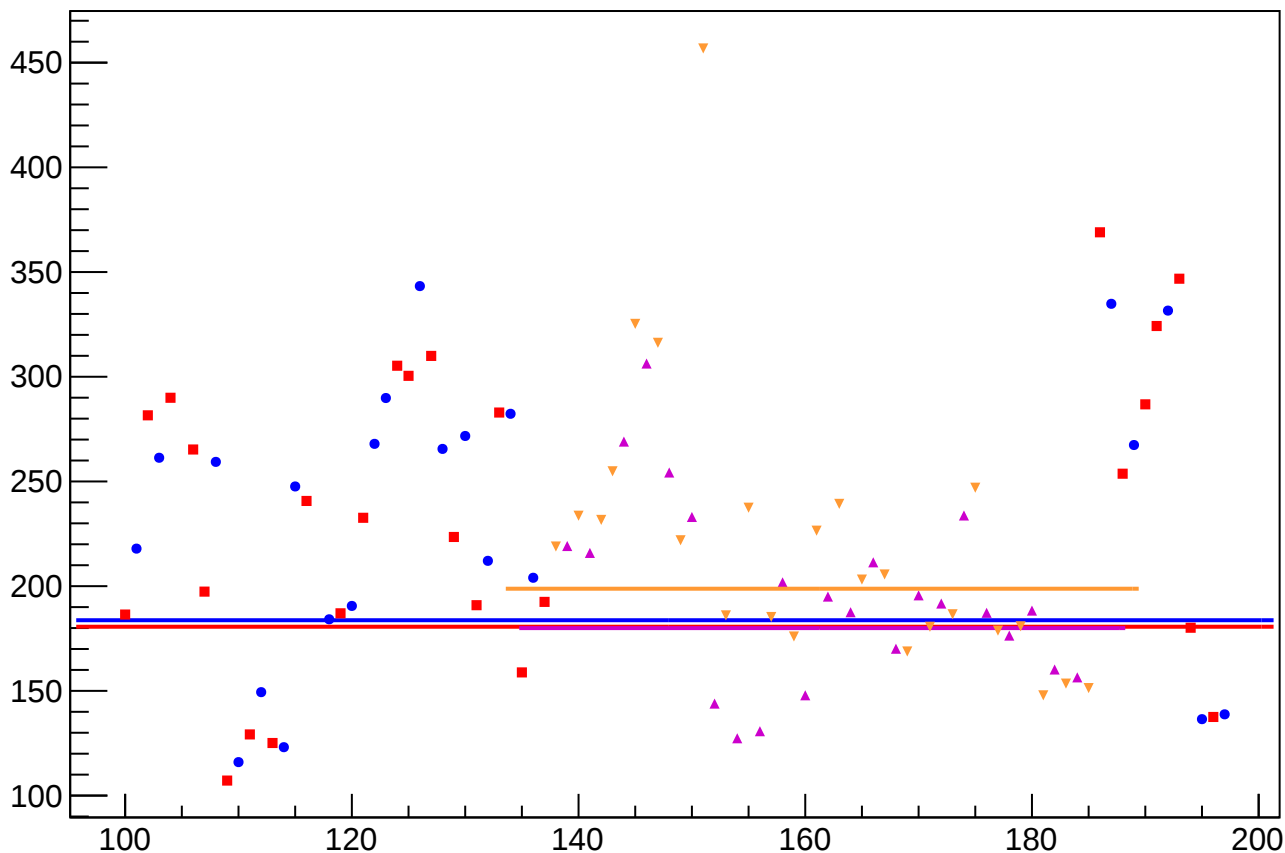
Right: -18.783 ± 42.742 $\chi^2/\text{NDF}: 19.0/47$

In: 17.193 ± 36.639 $\chi^2/\text{NDF}: 17.9/44$

Out: 4.605 ± 37.126 $\chi^2/\text{NDF}: 15.6/50$

All: 10.982 ± 26.078 $\chi^2/\text{NDF}: 33.6/95$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.736+/-0.044 χ^2/NDF : 1910673.6/21

Left Out: 198.784+/-0.034 χ^2/NDF : 1758481.8/24

Right Out: 180.631+/-0.041 χ^2/NDF : 2616761.6/25

Left In: 179.972+/-0.032 χ^2/NDF : 1575888.3/22

Left: 188.800+/-0.023 χ^2/NDF : 3497081.8/47

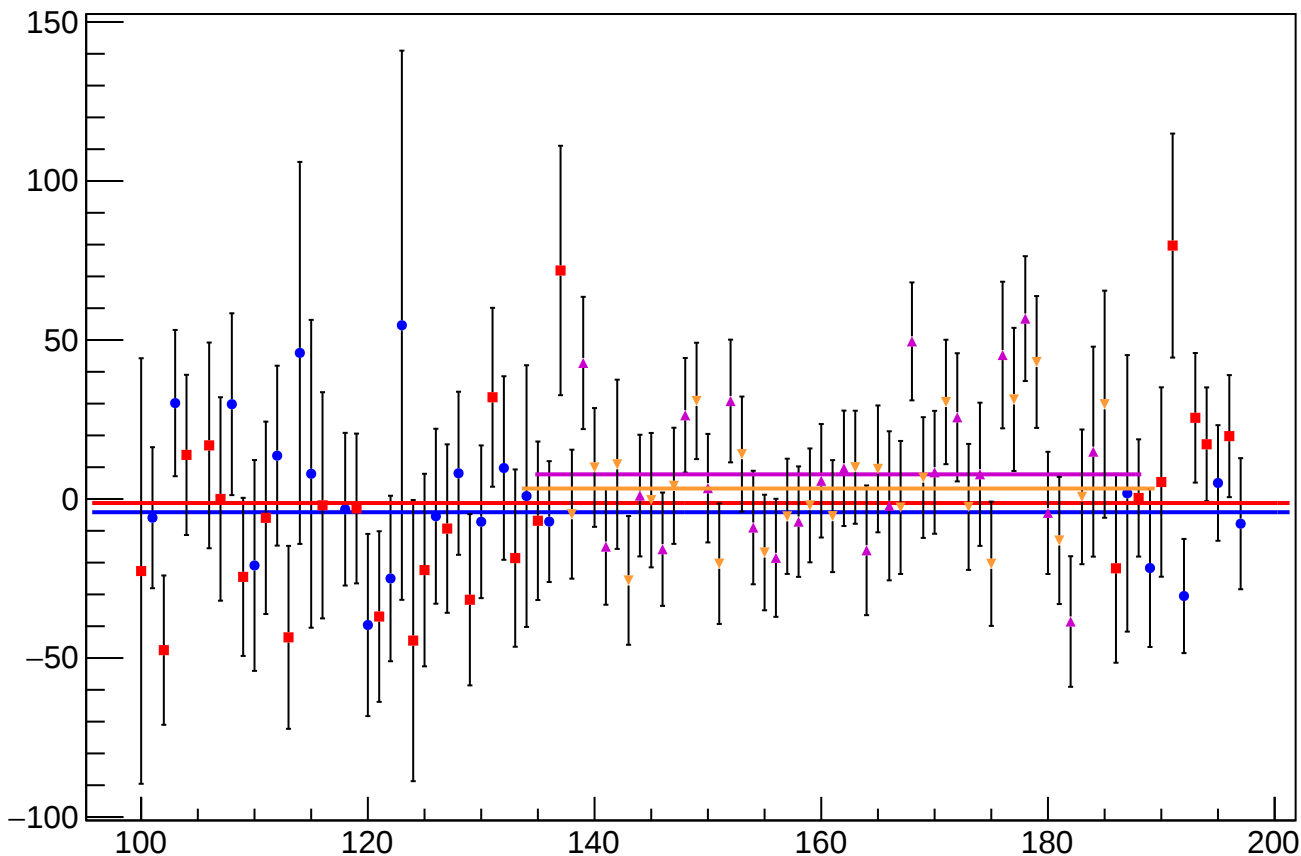
Right: 182.078+/-0.030 χ^2/NDF : 4530061.2/47

In: 181.261+/-0.026 χ^2/NDF : 3491313.1/44

Out: 191.469+/-0.026 χ^2/NDF : 4490283.0/50

All: 186.298+/-0.018 χ^2/NDF : 8058198.9/95

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.152 ± 5.560 χ^2/NDF : 11.2/21

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -1.260 ± 5.204 χ^2/NDF : 27.4/25

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

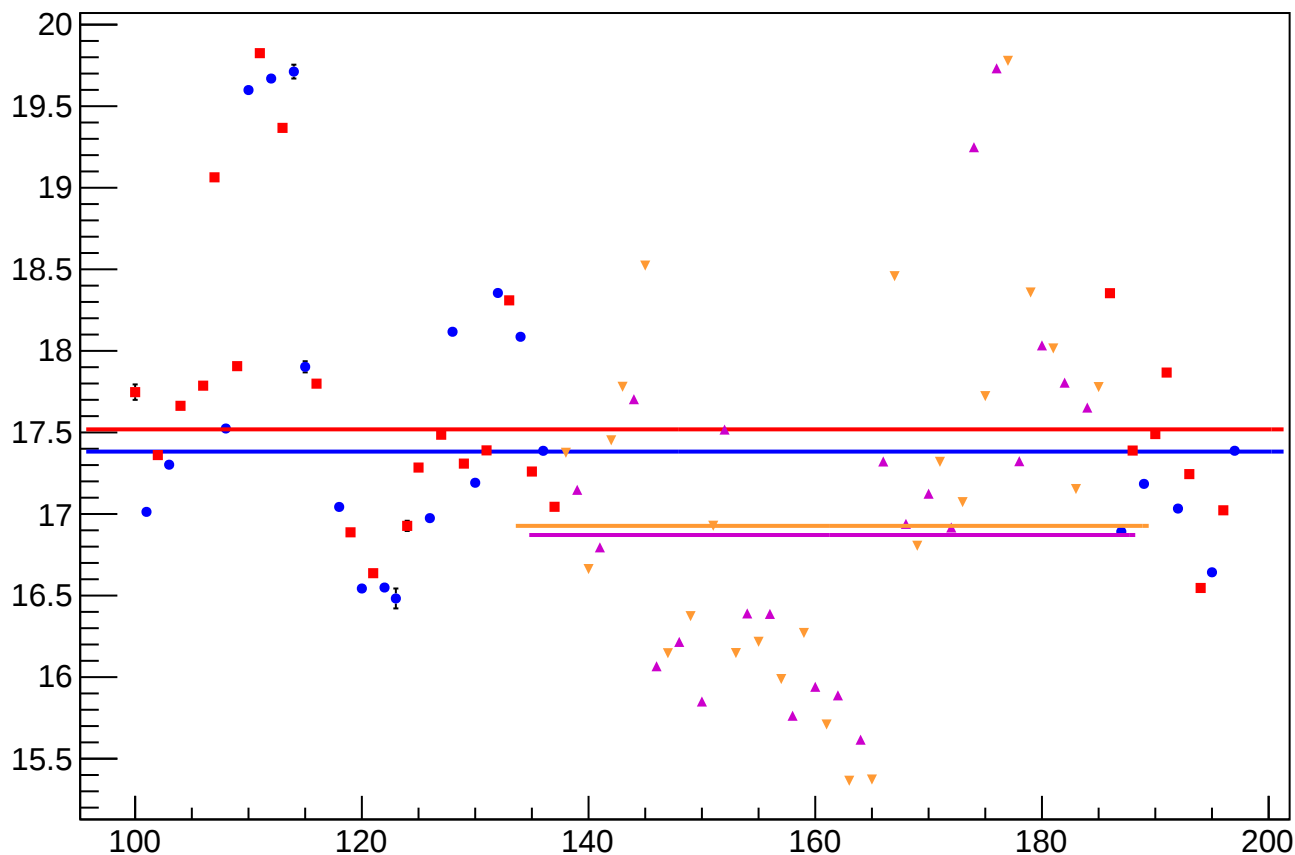
Right: -2.611 ± 3.799 χ^2/NDF : 38.7/47

In: 3.613 ± 3.279 χ^2/NDF : 48.4/44

Out: 1.636 ± 3.148 χ^2/NDF : 46.6/50

All: 2.584 ± 2.271 χ^2/NDF : 95.2/95

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.383 $\pm$ 0.004 χ^2 /NDF: 39788.9/21

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.519 $\pm$ 0.004 χ^2 /NDF: 41317.1/25

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

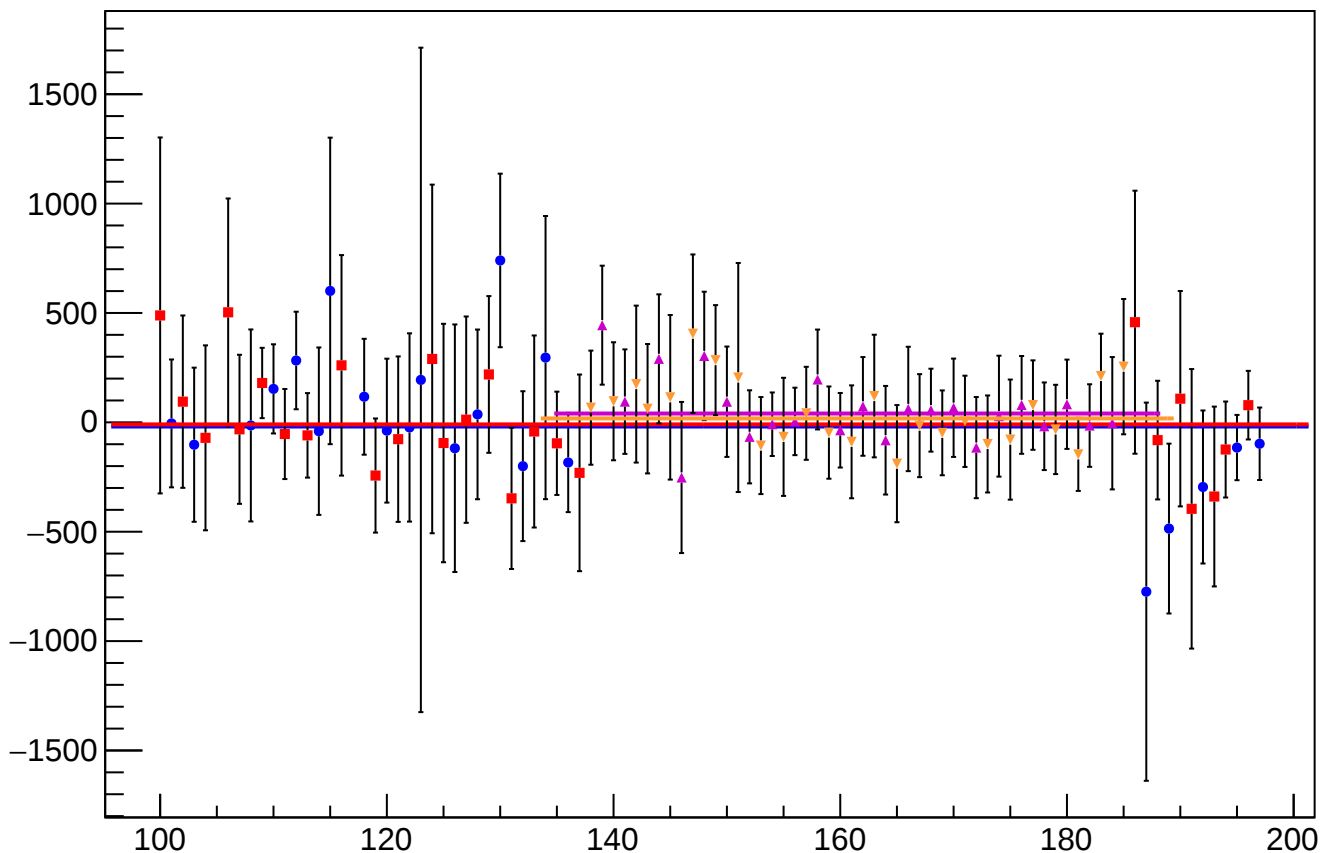
Right: 17.455 $\pm$ 0.003 χ^2 /NDF: 81746.3/47

In: 17.049 $\pm$ 0.002 χ^2 /NDF:168815.7/44

Out: 17.144 $\pm$ 0.002 χ^2 /NDF:196238.1/50

All: 17.098 $\pm$ 0.002 χ^2 /NDF: 365920.3/95

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -18.999 ± 63.079 $\chi^2/\text{NDF}: 11.9/21$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -9.453 ± 59.149 $\chi^2/\text{NDF}: 8.4/25$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

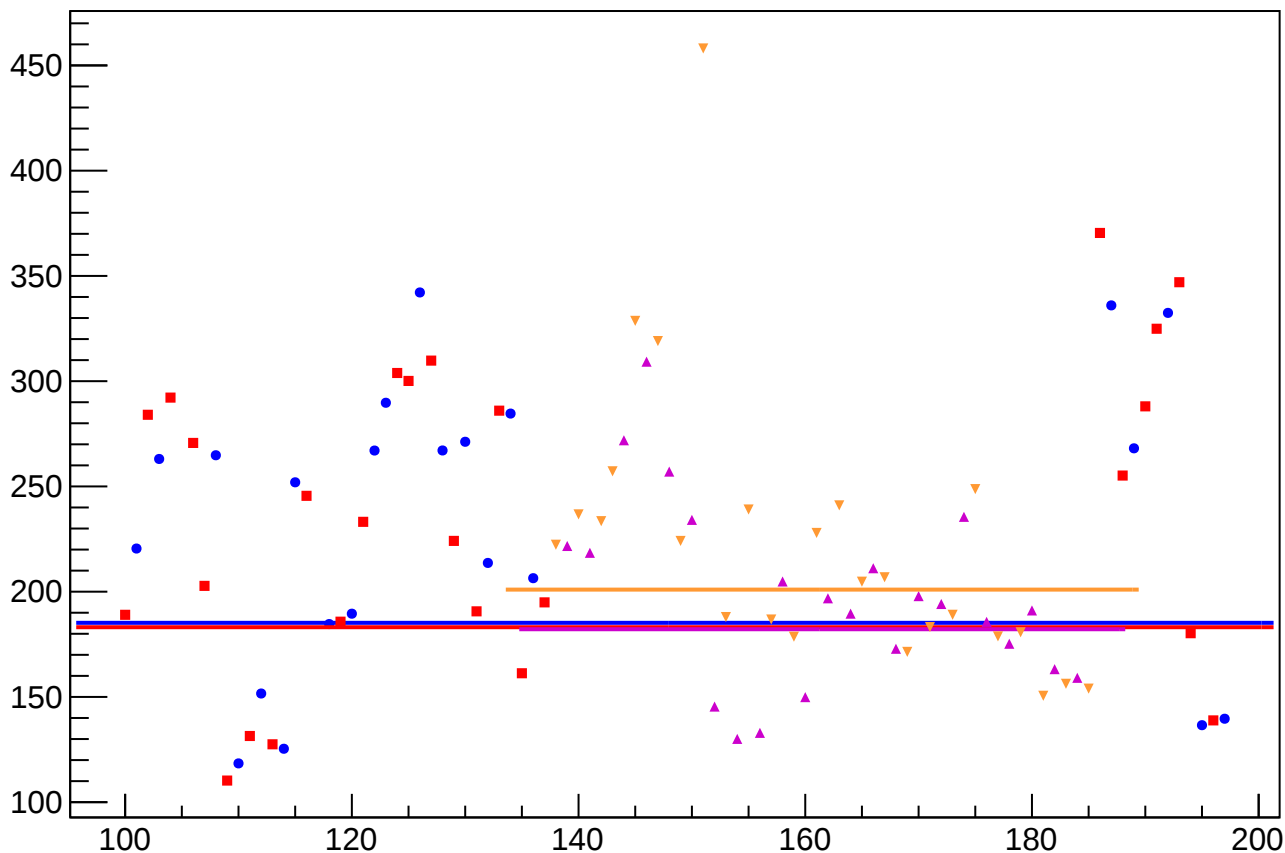
Right: -13.919 ± 43.147 $\chi^2/\text{NDF}: 20.4/47$

In: 19.931 ± 37.002 $\chi^2/\text{NDF}: 19.1/44$

Out: 6.848 ± 37.526 $\chi^2/\text{NDF}: 16.0/50$

All: 13.481 ± 26.348 $\chi^2/\text{NDF}: 35.2/95$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 185.208+/-0.045 χ^2/NDF : 1887505.3/21

Left Out: 200.985+/-0.034 χ^2/NDF : 1727291.4/24

Right Out: 183.117+/-0.042 χ^2/NDF : 2537000.6/25

Left In: 182.158+/-0.032 χ^2/NDF : 1535922.8/22

Left: 191.001+/-0.024 χ^2/NDF : 3422724.8/47

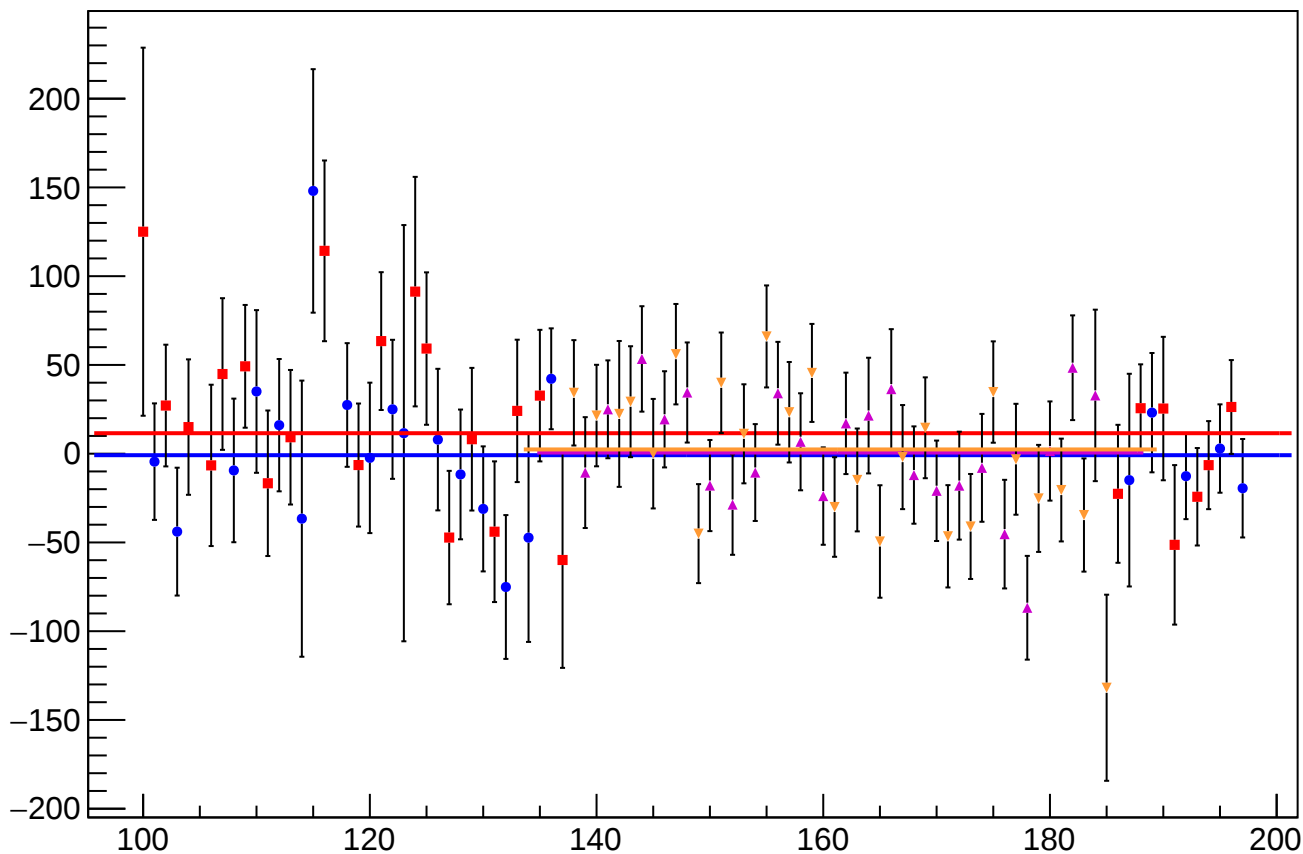
Right: 184.095+/-0.031 χ^2/NDF : 4425675.0/47

In: 183.208+/-0.026 χ^2/NDF : 3426494.3/44

Out: 193.793+/-0.027 χ^2/NDF : 4373342.0/50

All: 188.426+/-0.019 χ^2/NDF : 7880529.3/95

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.848 ± 7.882 χ^2/NDF : 16.8/21

Left Out: 2.390 ± 5.980 χ^2/NDF : 39.1/24

Right Out: 11.537 ± 7.287 χ^2/NDF : 24.7/25

Left In: 0.641 ± 6.091 χ^2/NDF : 27.3/22

Left: 1.531 ± 4.267 χ^2/NDF : 66.5/47

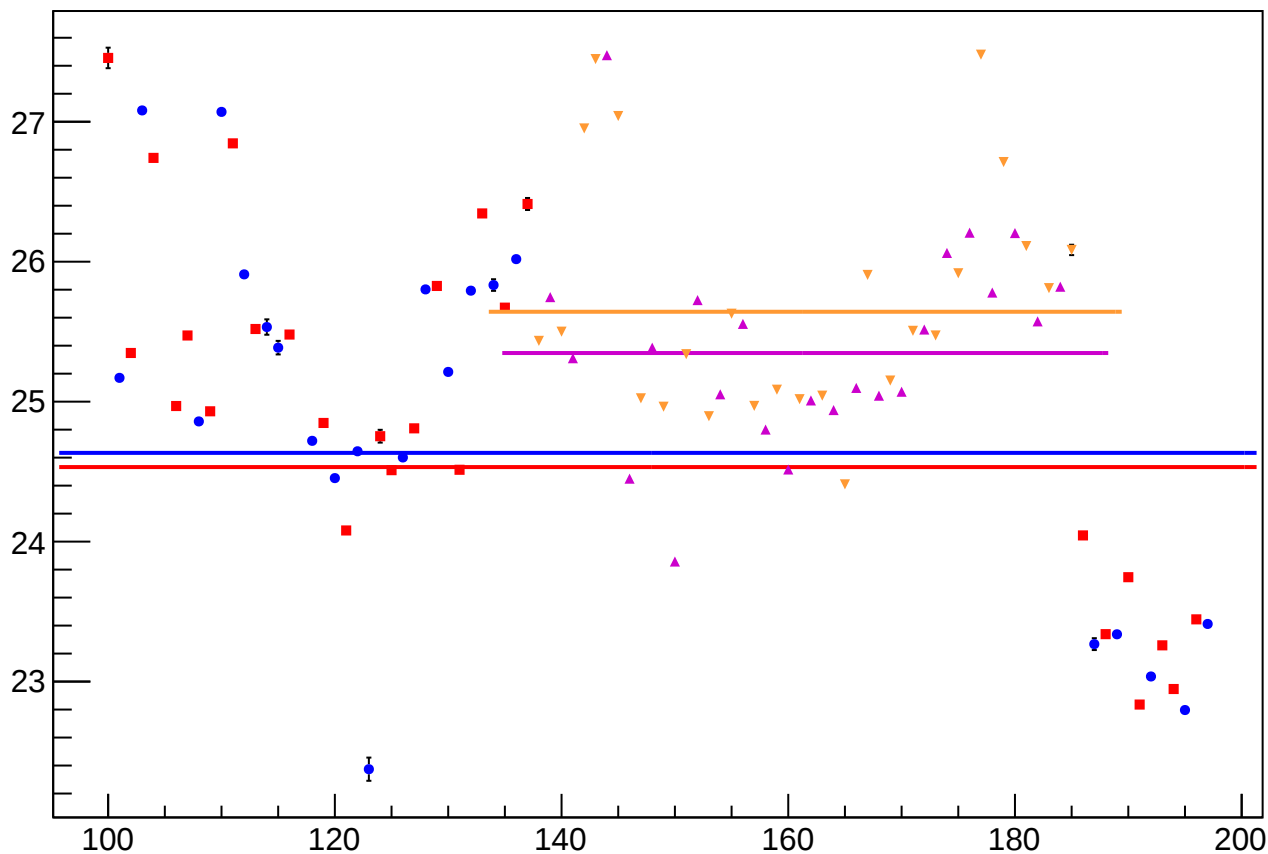
Right: 5.829 ± 5.351 χ^2/NDF : 42.8/47

In: 0.084 ± 4.820 χ^2/NDF : 44.1/44

Out: 6.070 ± 4.623 χ^2/NDF : 64.7/50

All: 3.202 ± 3.336 χ^2/NDF : 109.6/95

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.634 $\pm$ 0.006 χ^2 /NDF: 56432.8/21

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF: 34802.2/24

Right Out: 24.533 $\pm$ 0.005 χ^2 /NDF: 54252.2/25

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF: 29389.5/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 66578.5/47

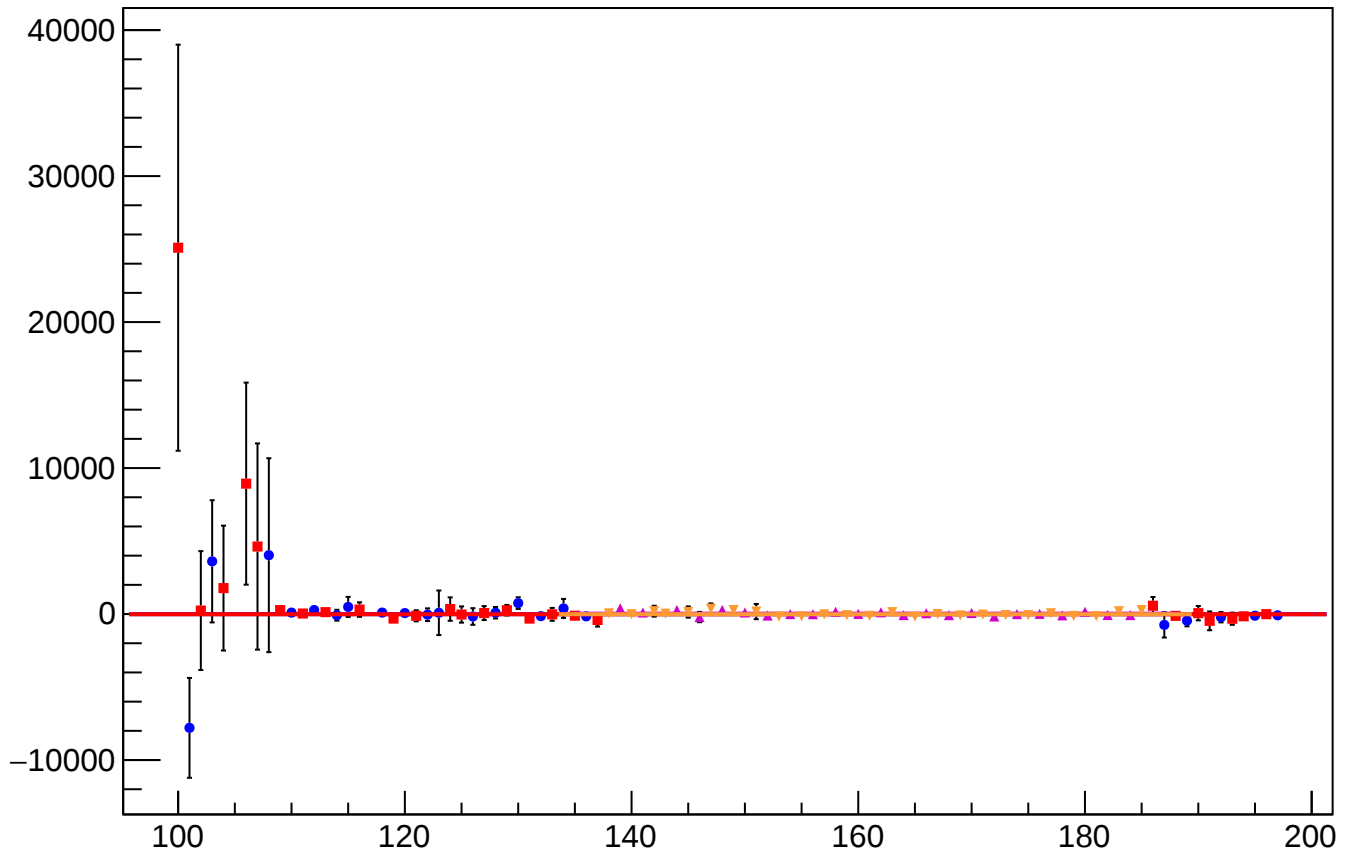
Right: 24.579 $\pm$ 0.004 χ^2 /NDF: 110863.7/47

In: 25.081 $\pm$ 0.003 χ^2 /NDF: 96080.3/44

Out: 25.196 $\pm$ 0.003 χ^2 /NDF: 116772.2/50

All: 25.141 $\pm$ 0.002 χ^2 /NDF: 213446.2/95

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -8.208 $\pm$ 67.285 χ^2 /NDF: 16.7/21

Left Out: -11.432 $\pm$ 48.263 χ^2 /NDF: 8.0/24

Right Out: -13.482 $\pm$ 64.795 χ^2 /NDF: 14.7/25

Left In: 27.098 $\pm$ 45.999 χ^2 /NDF: 7.2/22

Left: 8.758 $\pm$ 33.298 χ^2 /NDF: 15.5/47

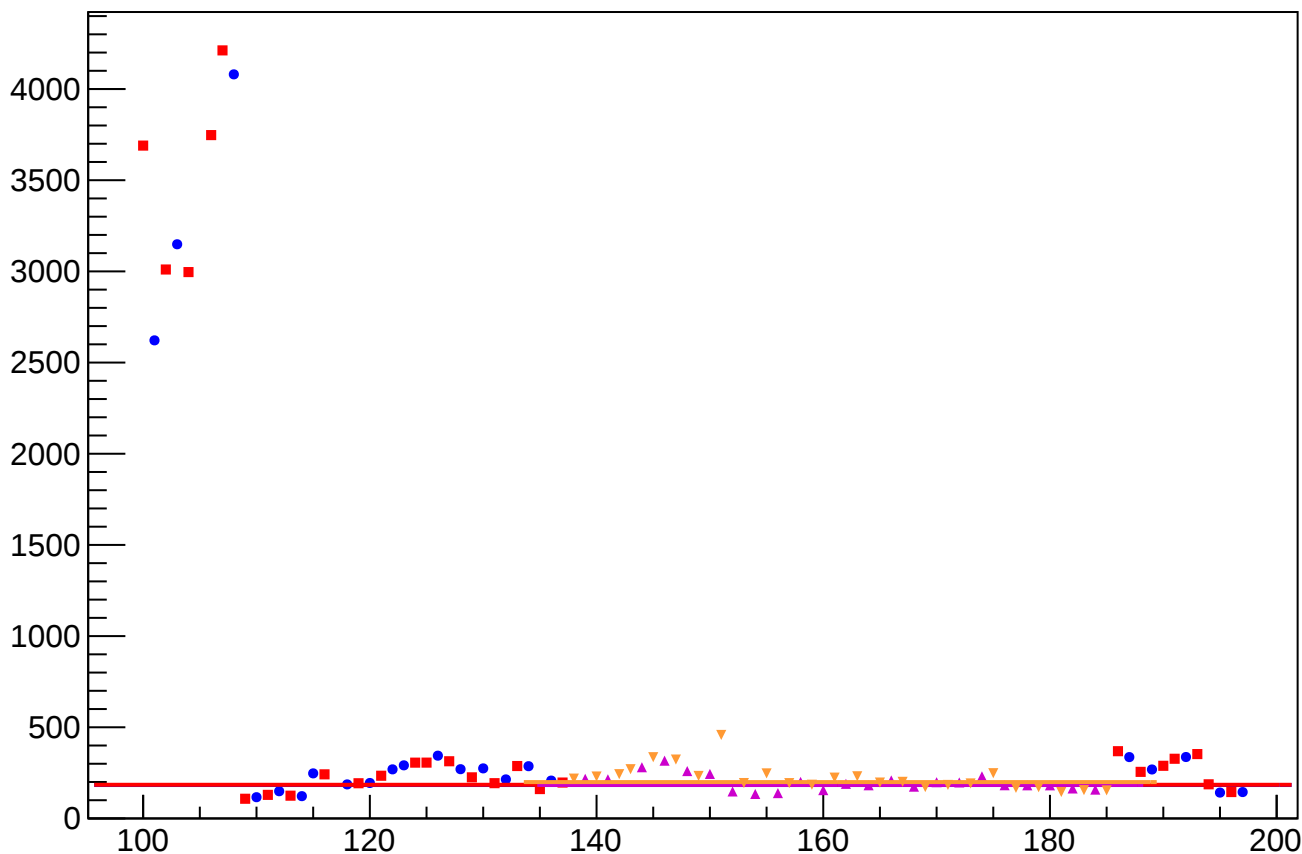
Right: -10.944 $\pm$ 46.673 χ^2 /NDF: 31.4/47

In: 15.853 $\pm$ 37.973 χ^2 /NDF: 24.1/44

Out: -12.163 $\pm$ 38.706 χ^2 /NDF: 22.7/50

All: 2.112 $\pm$ 27.106 χ^2 /NDF: 47.1/95

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.318+/-0.048 χ^2/NDF : 4369437.8/21

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 184.644+/-0.046 χ^2/NDF : 5198979.9/25

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

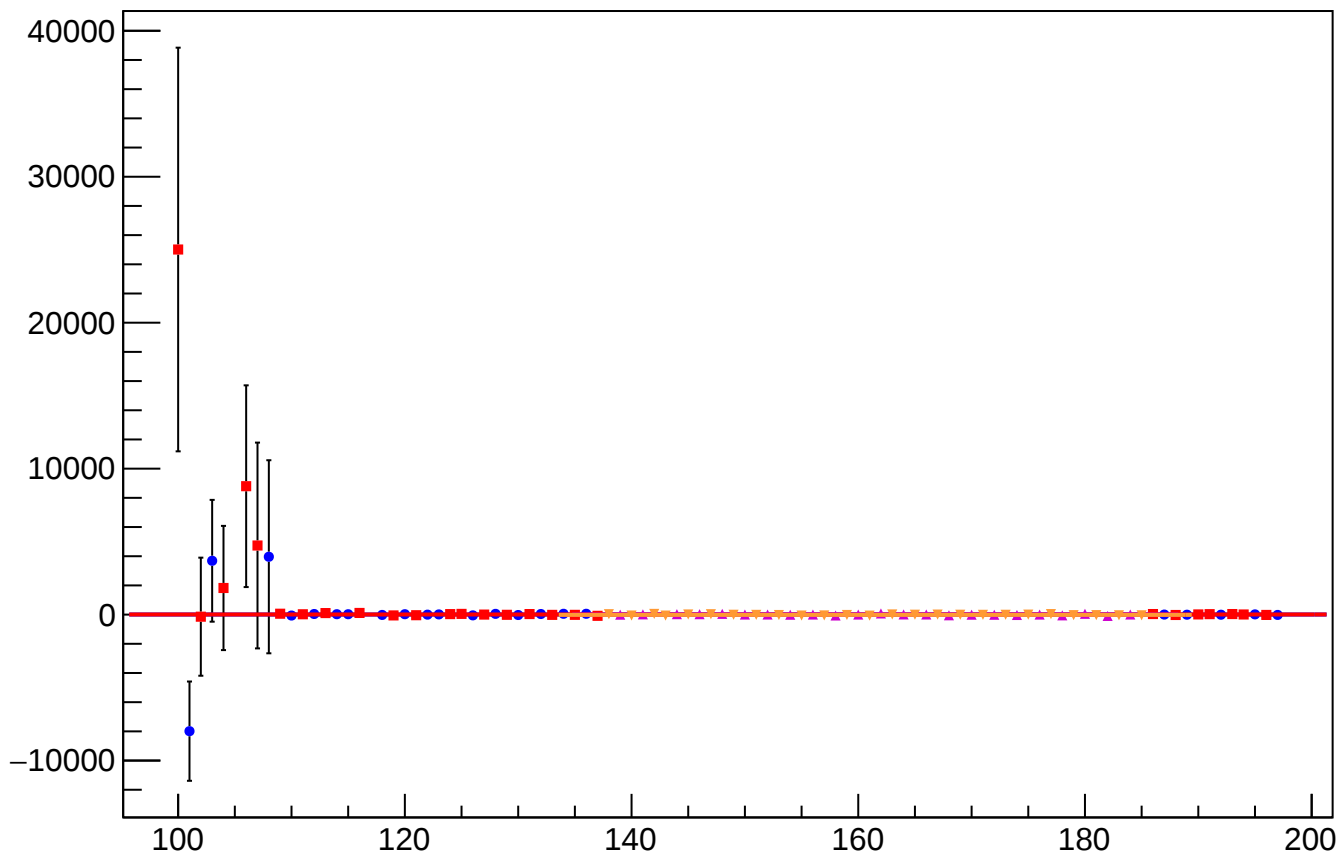
Right: 184.006+/-0.033 χ^2/NDF : 9568820.4/47

In: 183.650+/-0.027 χ^2/NDF : 5782378.9/44

Out: 194.159+/-0.027 χ^2/NDF : 7143889.1/50

All: 188.804+/-0.019 χ^2/NDF : 13001393.4/95

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.594+/-9.605 χ^2/NDF : 19.6/21

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 9.035+/-9.081 χ^2/NDF : 27.6/25

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

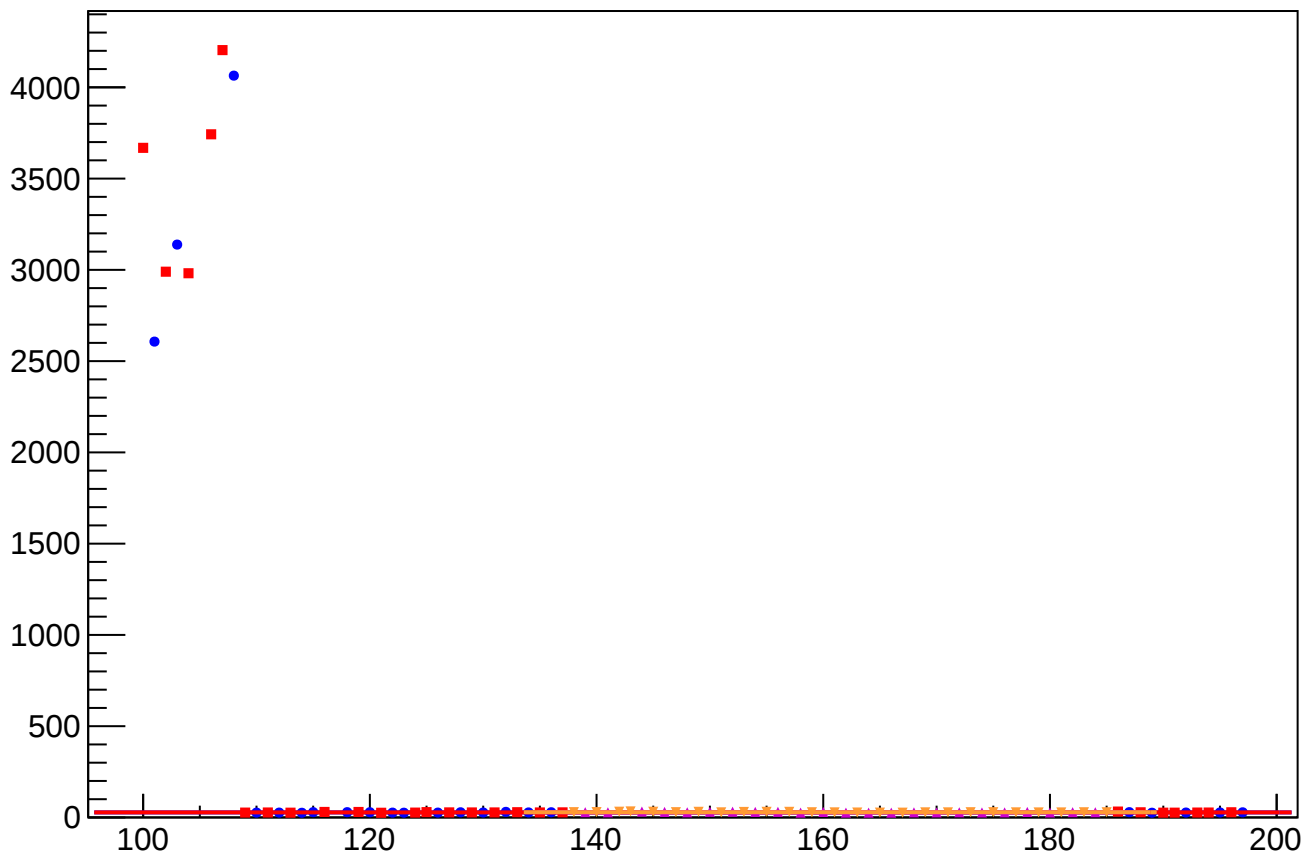
Right: 7.411+/-6.599 χ^2/NDF : 47.2/47

In: 2.743+/-5.608 χ^2/NDF : 51.7/44

Out: -8.540+/-5.393 χ^2/NDF : 55.1/50

All: -3.119+/-3.887 χ^2/NDF : 108.9/95

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.629 $\pm$ 0.007 χ^2 /NDF: 3034285.8/21

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.699 $\pm$ 0.006 χ^2 /NDF: 3500104.2/25

Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

Left: 28.685 $\pm$ 0.003 χ^2 /NDF: 234287.5/47

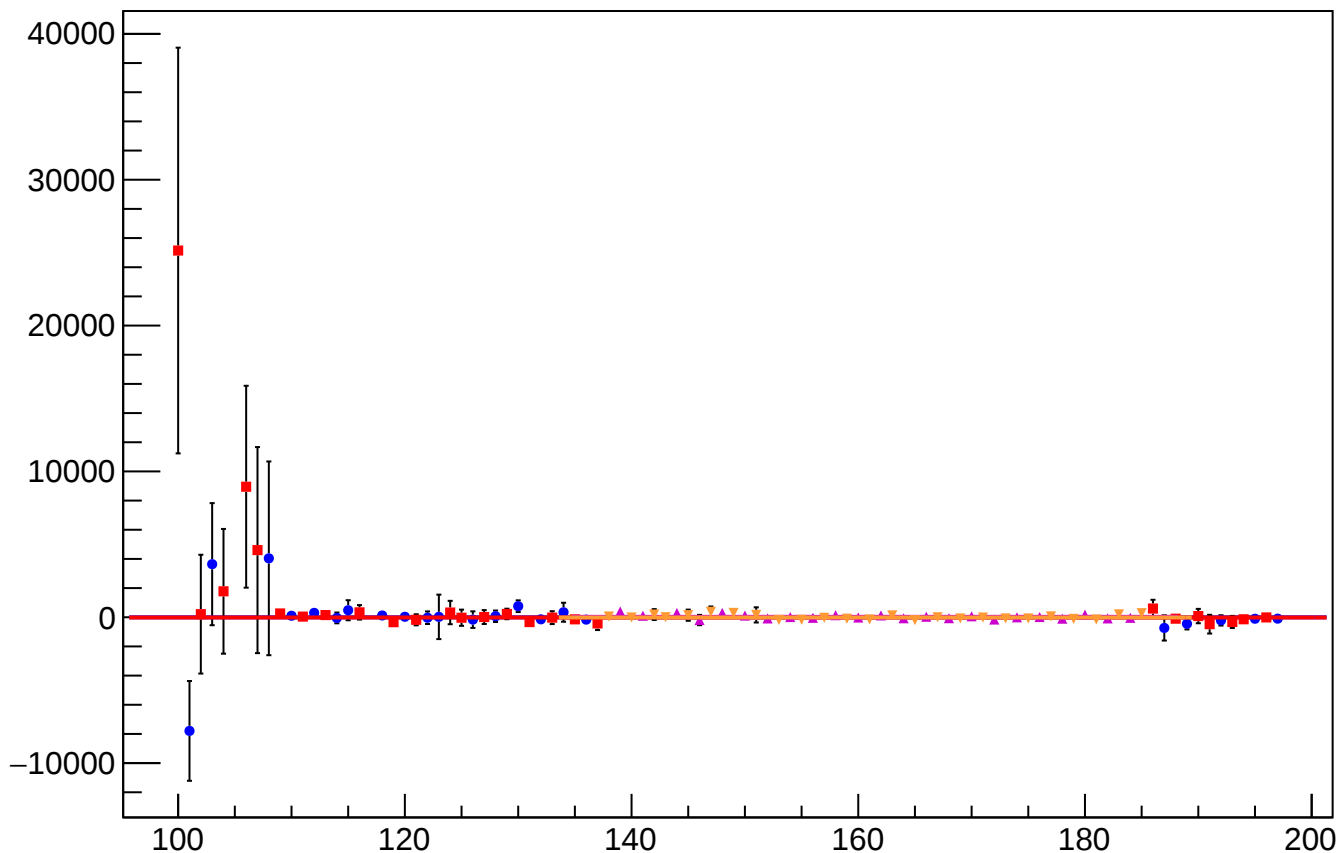
Right: 27.666 $\pm$ 0.005 χ^2 /NDF: 6534446.8/47

In: 28.320 $\pm$ 0.004 χ^2 /NDF: 3173789.2/44

Out: 28.343 $\pm$ 0.004 χ^2 /NDF: 3626095.4/50

All: 28.332 $\pm$ 0.003 χ^2 /NDF: 6799902.7/95

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -4.264+/-67.086 χ^2/NDF : 17.0/21

Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24

Right Out: -16.914+/-64.613 χ^2/NDF : 15.4/25

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

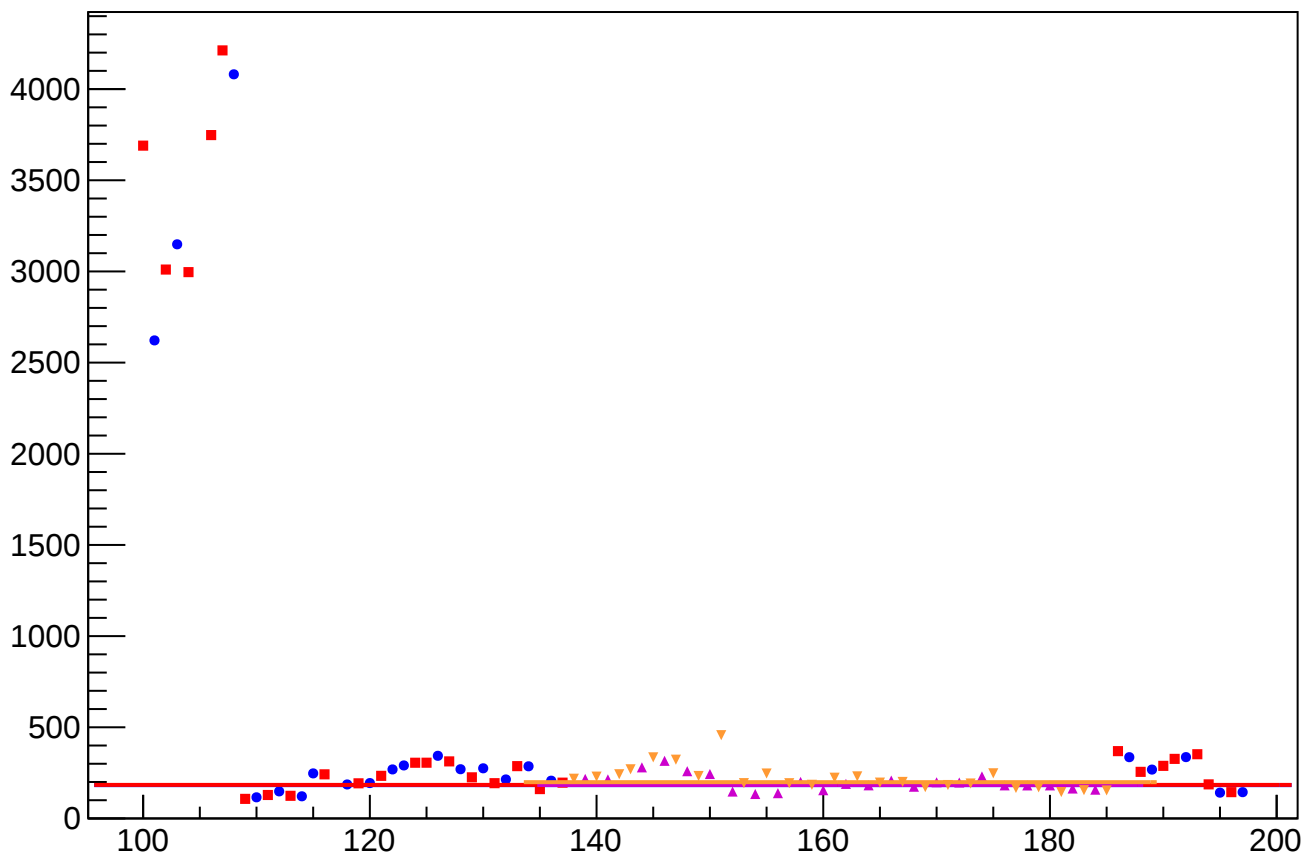
Right: -10.826+/-46.538 χ^2/NDF : 32.4/47

In: 17.224+/-37.886 χ^2/NDF : 24.6/44

Out: -14.962+/-38.611 χ^2/NDF : 24.2/50

All: 1.436+/-27.042 χ^2/NDF : 49.2/95

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.697 $\pm$ 0.047 χ^2 /NDF: 4382534.5/21

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 184.026 $\pm$ 0.046 χ^2 /NDF: 5217026.8/25

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF:1412341.8/22

Left: 190.847 $\pm$ 0.023 χ^2 /NDF: 3399302.2/47

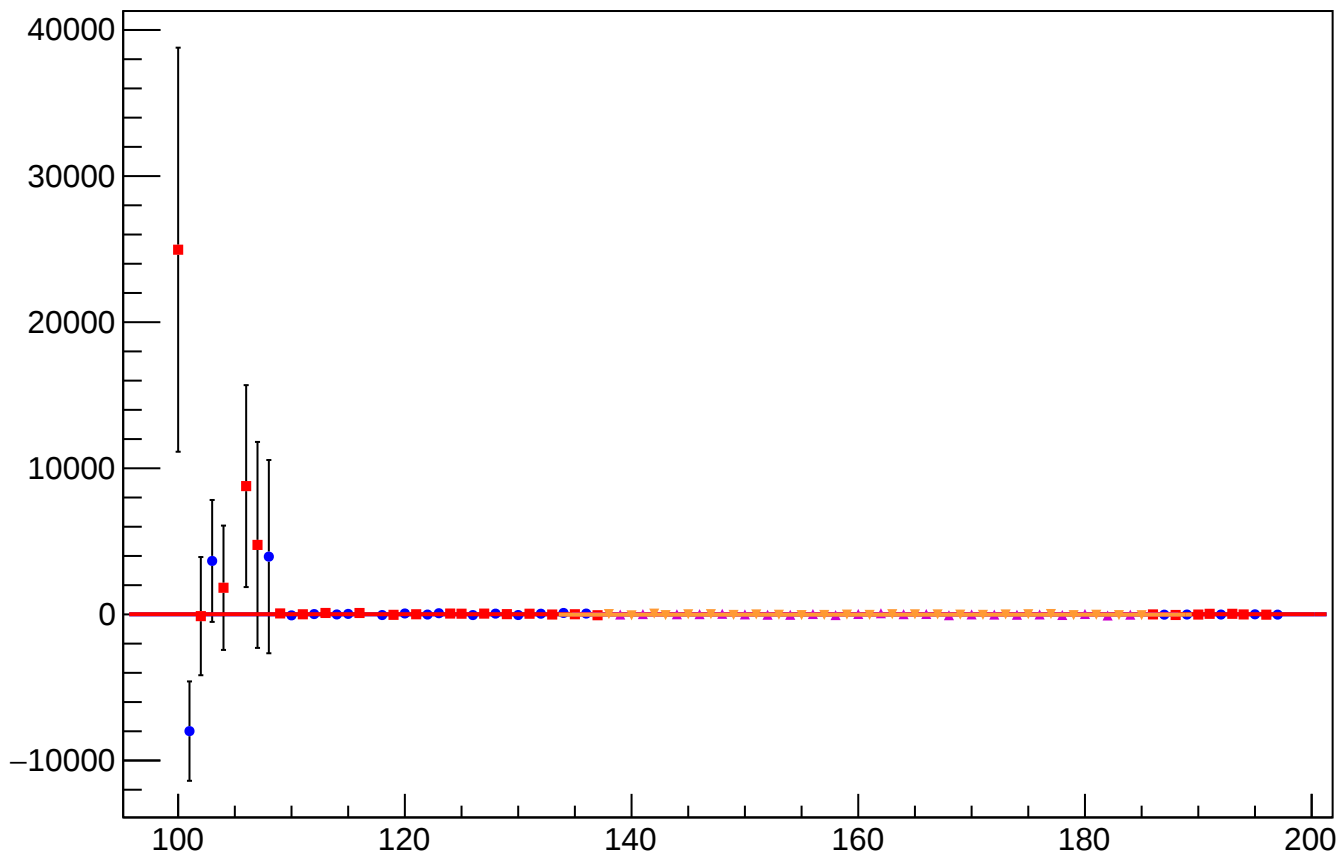
Right: 183.387 $\pm$ 0.033 χ^2 /NDF: 9599968.7/47

In: 183.204 $\pm$ 0.027 χ^2 /NDF:5795044.0/44

Out: 193.651 $\pm$ 0.027 χ^2 /NDF:7163685.0/50

All: 188.328 $\pm$ 0.019 χ^2 /NDF: 13033317.4/95

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.697 ± 9.626 $\chi^2/\text{NDF}: 23.6/21$

Left Out: -15.829 ± 6.733 $\chi^2/\text{NDF}: 16.5/24$

Right Out: 13.947 ± 9.109 $\chi^2/\text{NDF}: 23.5/25$

Left In: -0.498 ± 6.937 $\chi^2/\text{NDF}: 26.1/22$

Left: -8.392 ± 4.831 $\chi^2/\text{NDF}: 45.1/47$

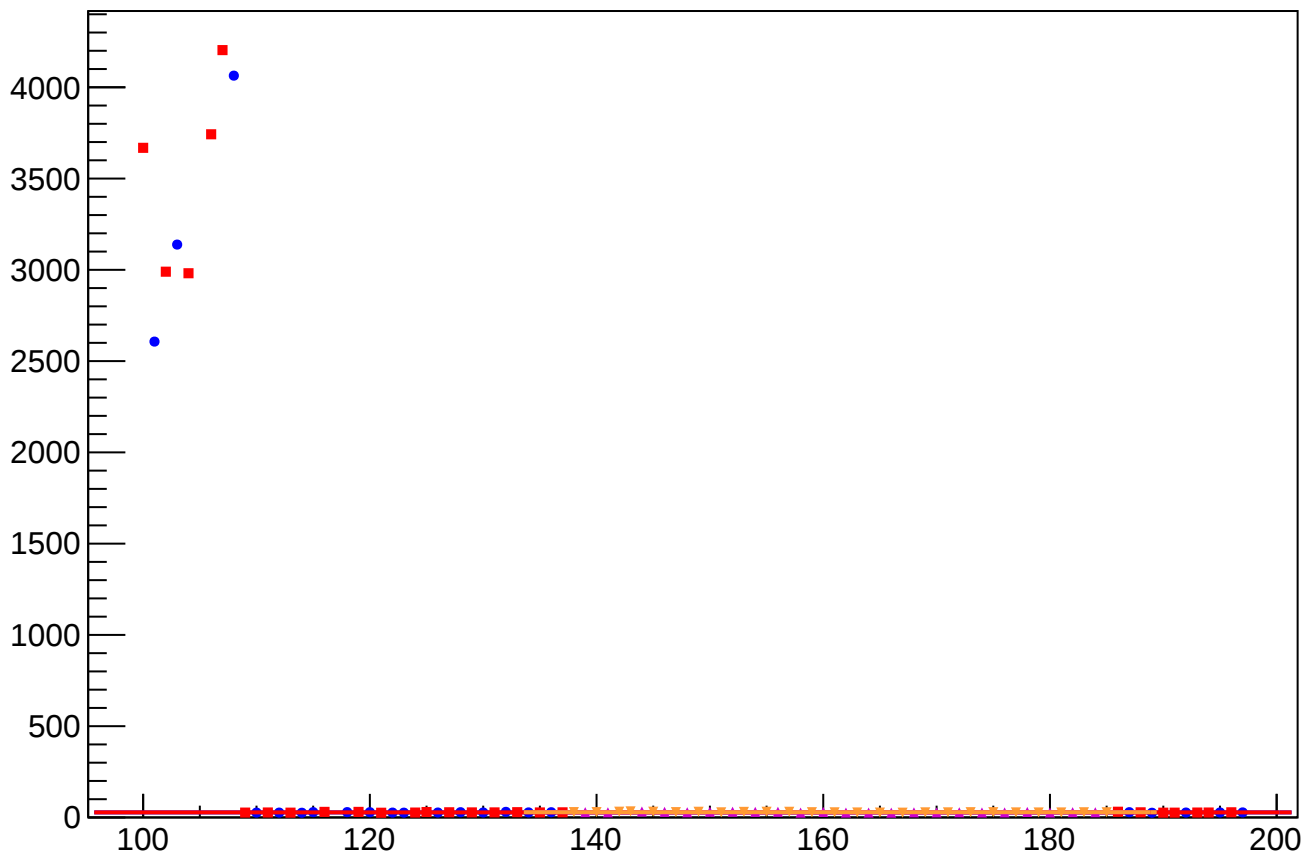
Right: 8.633 ± 6.616 $\chi^2/\text{NDF}: 47.8/47$

In: 0.594 ± 5.628 $\chi^2/\text{NDF}: 49.7/44$

Out: -5.308 ± 5.414 $\chi^2/\text{NDF}: 46.9/50$

All: -2.471 ± 3.902 $\chi^2/\text{NDF}: 97.2/95$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.685 $\pm$ 0.007 χ^2 /NDF: 3036075.7/21

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 27.785 $\pm$ 0.006 χ^2 /NDF: 3497672.1/25

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF: 128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

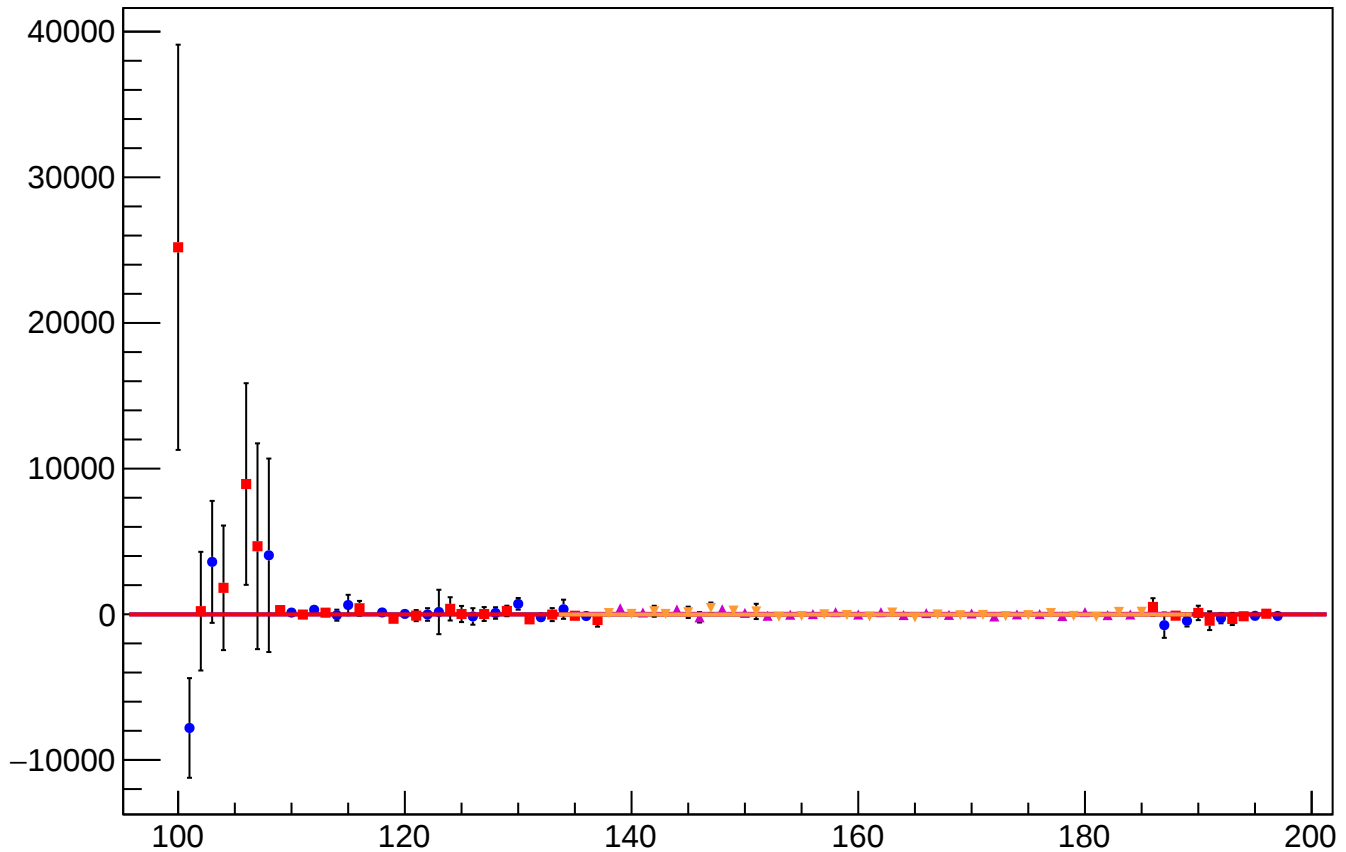
Right: 27.738 $\pm$ 0.005 χ^2 /NDF: 6533862.1/47

In: 28.417 $\pm$ 0.004 χ^2 /NDF: 3181940.7/44

Out: 28.451 $\pm$ 0.004 χ^2 /NDF: 3636342.6/50

All: 28.434 $\pm$ 0.003 χ^2 /NDF: 6818320.2/95

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -6.495+/-67.642 χ^2/NDF : 17.4/21

Left Out: -13.966+/-48.735 χ^2/NDF : 8.1/24

Right Out: -10.464+/-65.285 χ^2/NDF : 14.6/25

Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47

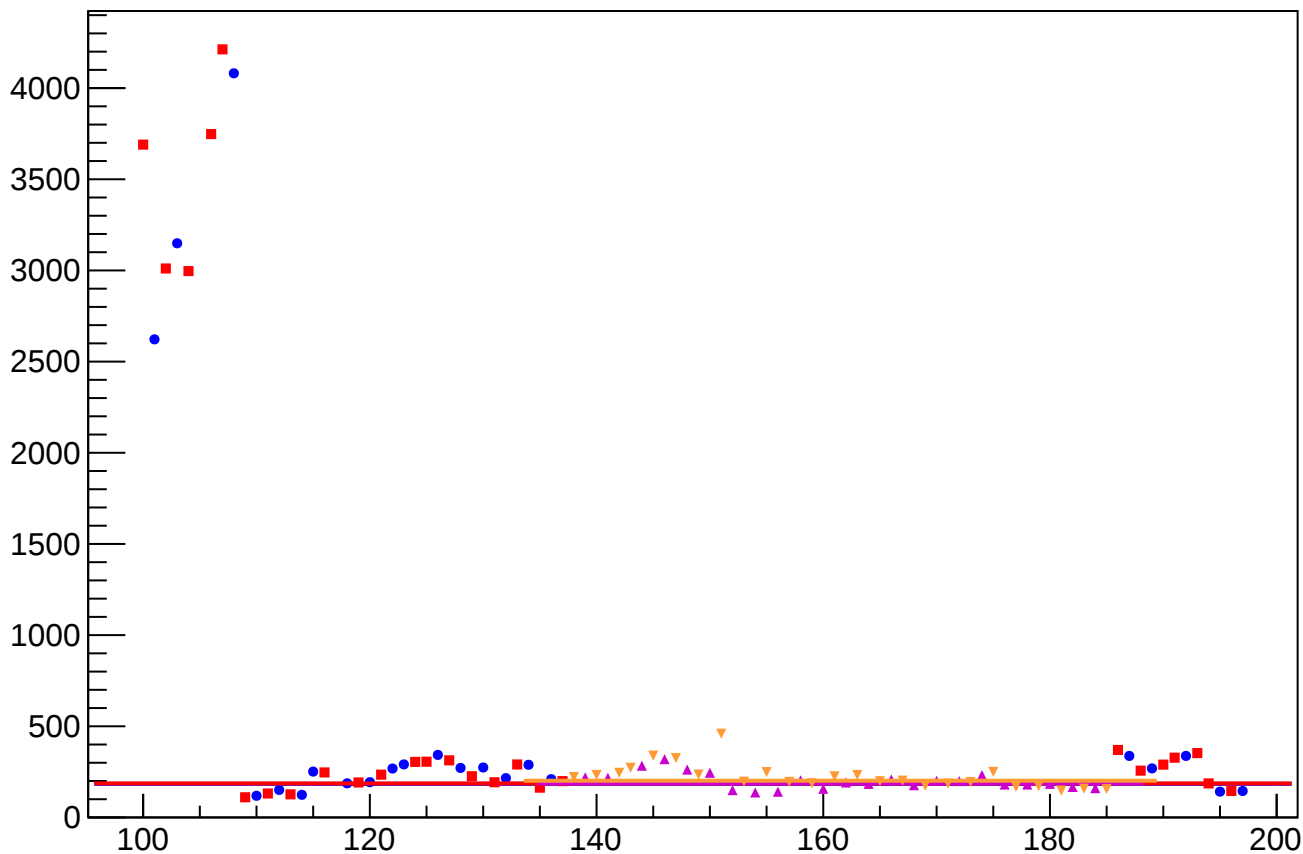
Right: -8.550+/-46.975 χ^2/NDF : 32.0/47

In: 19.297+/-38.309 χ^2/NDF : 25.4/44

Out: -12.713+/-39.054 χ^2/NDF : 22.7/50

All: 3.600+/-27.348 χ^2/NDF : 48.5/95

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 184.435 $\pm$ 0.048 χ^2 /NDF: 4344764.8/21

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 186.400 $\pm$ 0.046 χ^2 /NDF: 5141293.6/25

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2 /NDF: 3343425.2/47

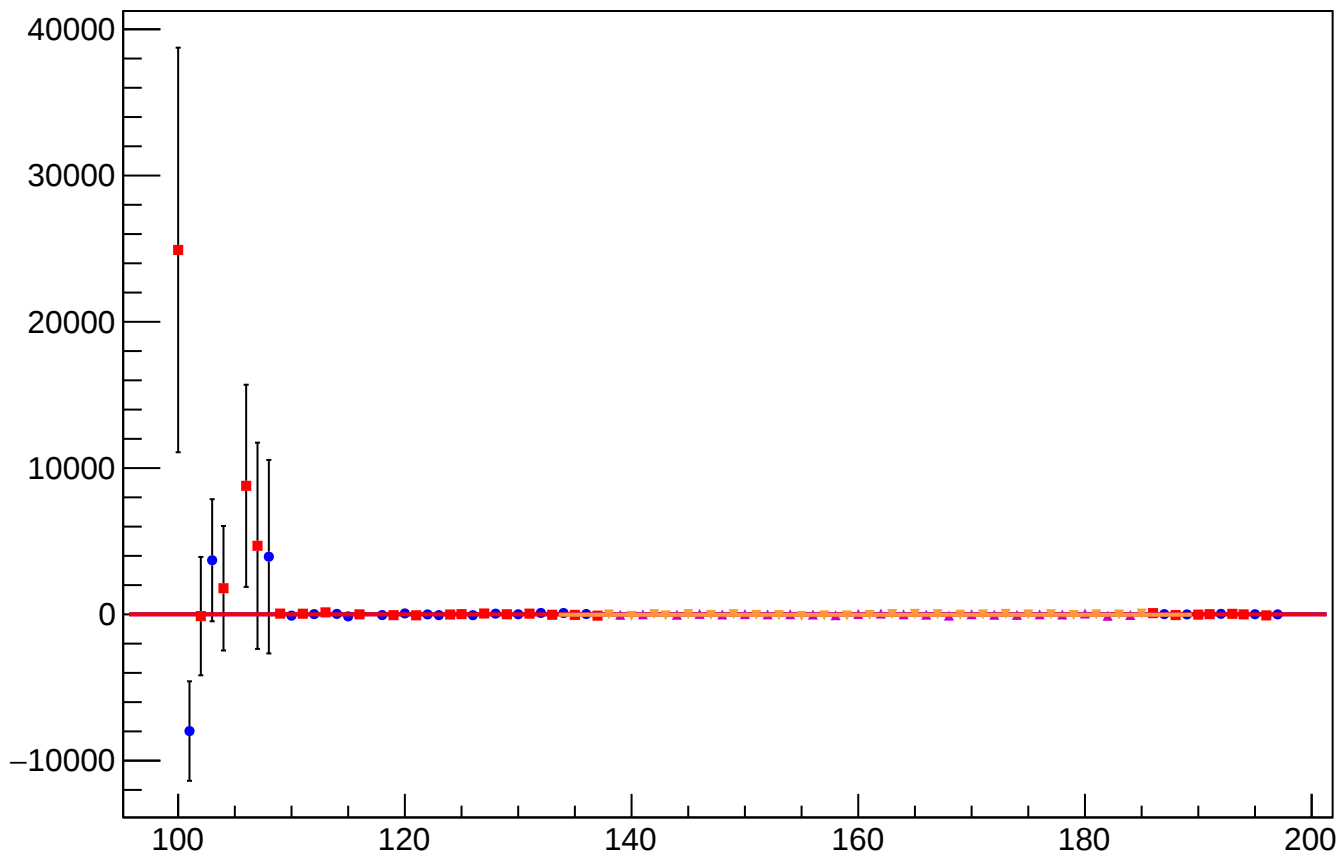
Right: 185.452 $\pm$ 0.033 χ^2 /NDF: 9486932.2/47

In: 185.415 $\pm$ 0.027 χ^2 /NDF:5726261.4/44

Out: 196.098 $\pm$ 0.028 χ^2 /NDF:7064934.6/50

All: 190.654 $\pm$ 0.019 χ^2 /NDF: 12867461.2/95

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.957 ± 11.737 χ^2/NDF : 20.9/21

Left Out: -24.144 ± 8.076 χ^2/NDF : 24.9/24

Right Out: 1.557 ± 11.090 χ^2/NDF : 29.6/25

Left In: -5.924 ± 8.340 χ^2/NDF : 21.0/22

Left: -15.326 ± 5.802 χ^2/NDF : 48.4/47

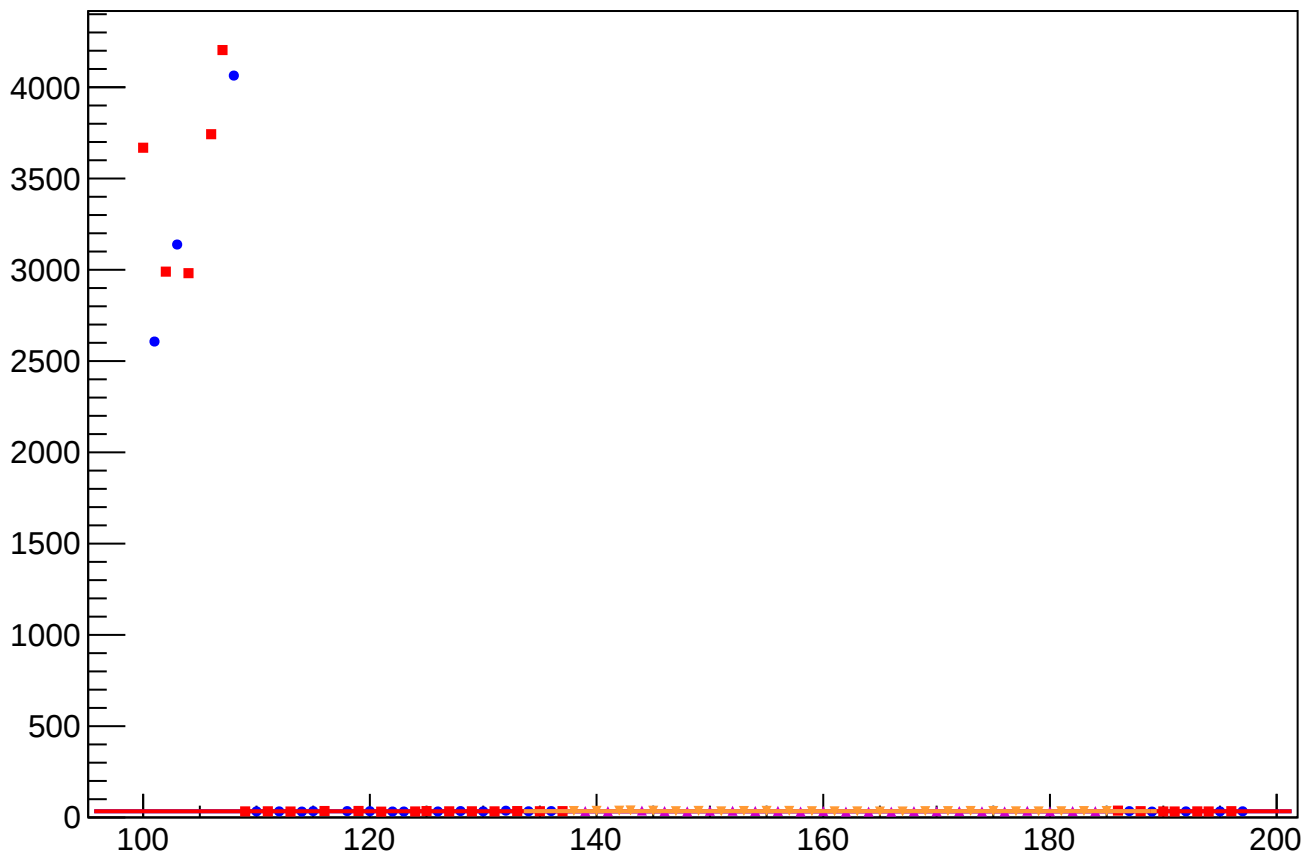
Right: 5.048 ± 8.061 χ^2/NDF : 50.7/47

In: -0.931 ± 6.798 χ^2/NDF : 42.9/44

Out: -15.236 ± 6.528 χ^2/NDF : 58.0/50

All: -8.374 ± 4.709 χ^2/NDF : 103.2/95

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.788 $\pm$ 0.008 χ^2 /NDF: 3011075.0/21

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.889 $\pm$ 0.008 χ^2 /NDF: 3462359.5/25

Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 117764.0/47

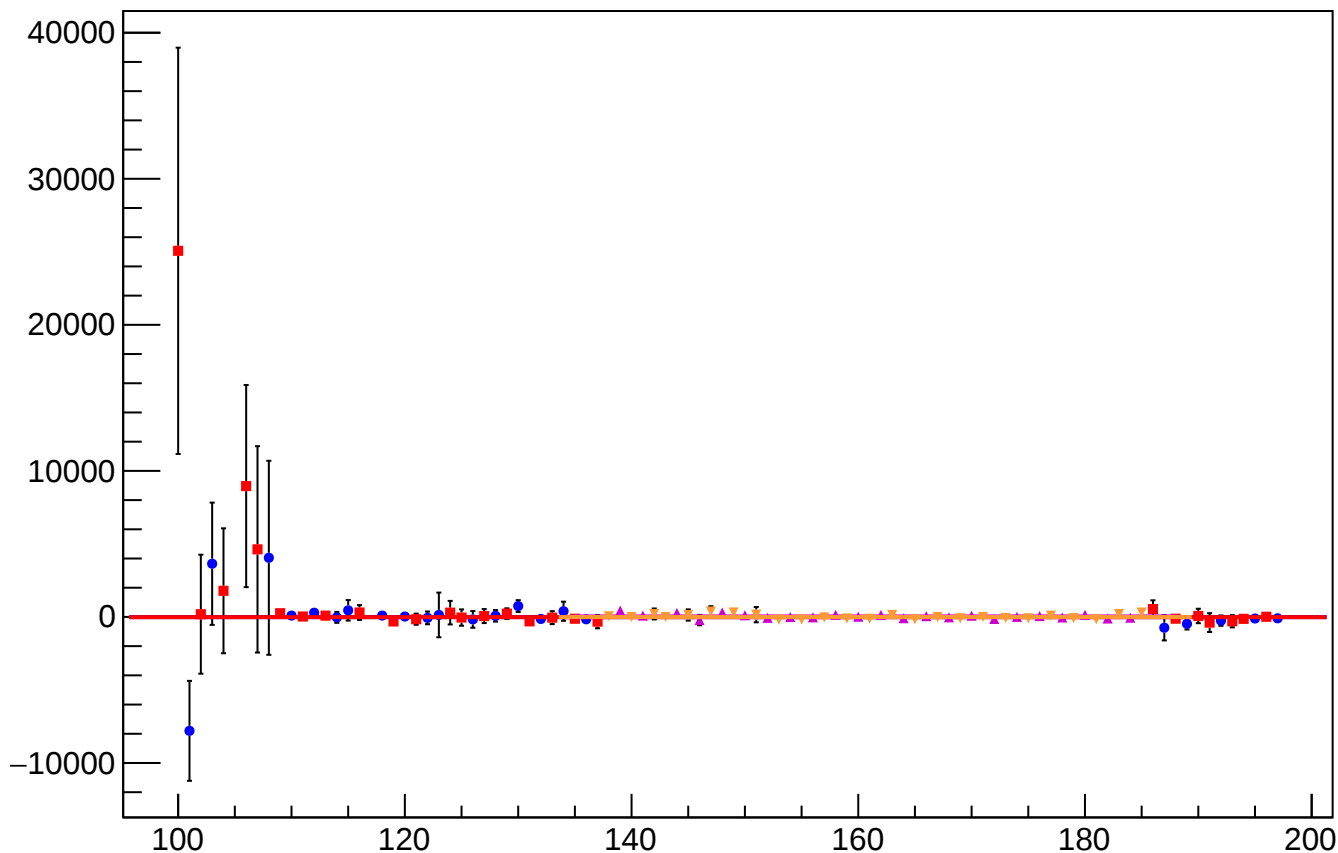
Right: 33.841 $\pm$ 0.006 χ^2 /NDF: 6473513.3/47

In: 34.382 $\pm$ 0.005 χ^2 /NDF: 3078618.6/44

Out: 34.365 $\pm$ 0.005 χ^2 /NDF: 3525864.5/50

All: 34.373 $\pm$ 0.003 χ^2 /NDF: 6604489.4/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -12.091 $\pm$ 67.415 χ^2 /NDF: 16.9/21

Left Out: -7.558 $\pm$ 48.662 χ^2 /NDF:8.8/24

Right Out: -16.957 $\pm$ 64.952 χ^2 /NDF: 13.3/25

Left In: 34.977 $\pm$ 46.421 χ^2 /NDF:7.1/22

Left: 14.712 $\pm$ 33.589 χ^2 /NDF: 16.3/47

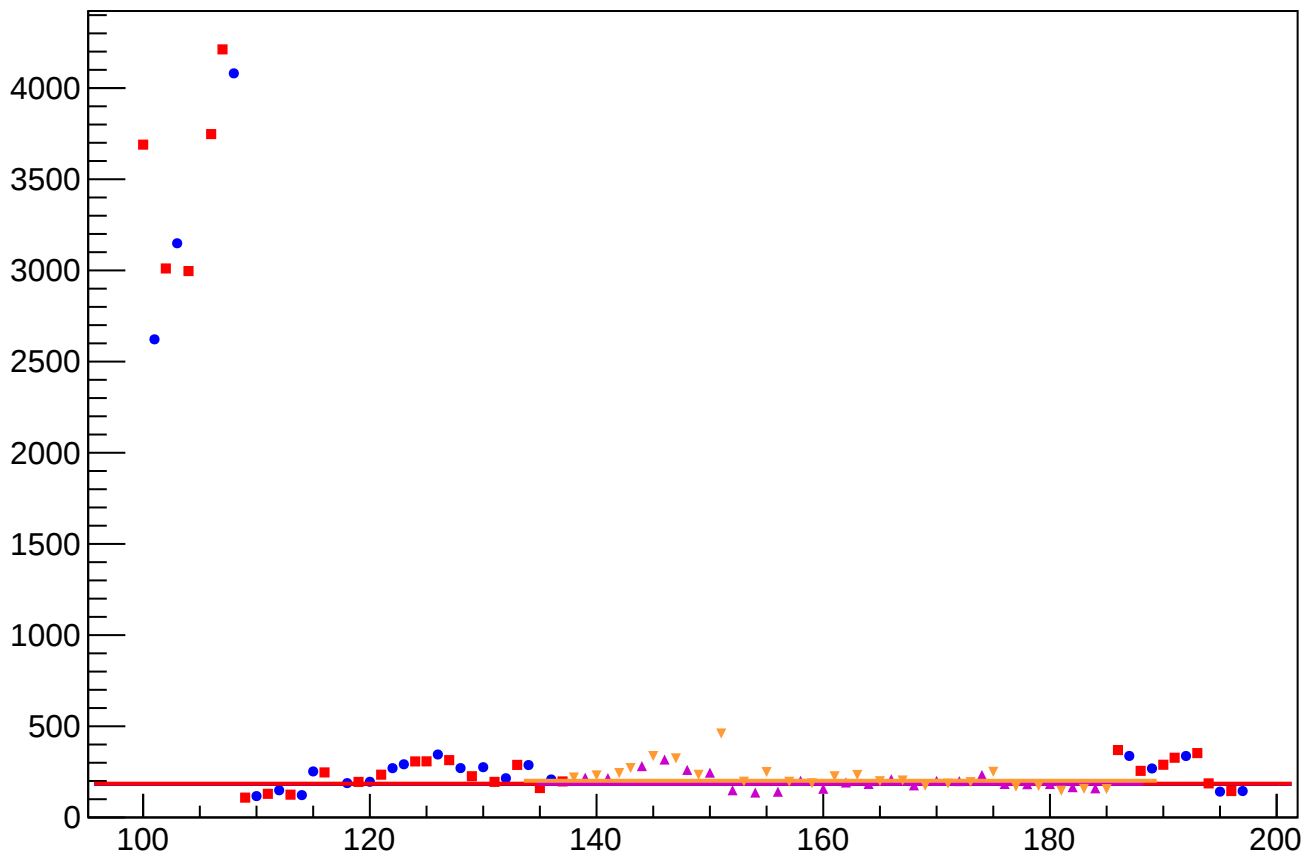
Right: -14.615 $\pm$ 46.775 χ^2 /NDF: 30.2/47

In: 19.838 $\pm$ 38.233 χ^2 /NDF:24.3/44

Out: -10.937 $\pm$ 38.945 χ^2 /NDF:22.0/50

All: 4.734 $\pm$ 27.283 χ^2 /NDF: 46.7/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.639+/-0.048 χ^2/NDF : 4376497.1/21

Left Out: 201.198+/-0.034 χ^2/NDF : 1848437.4/24

Right Out: 185.115+/-0.046 χ^2/NDF : 5198464.5/25

Left In: 185.627+/-0.033 χ^2/NDF : 1371411.2/22

Left: 193.046+/-0.024 χ^2/NDF : 3327061.1/47

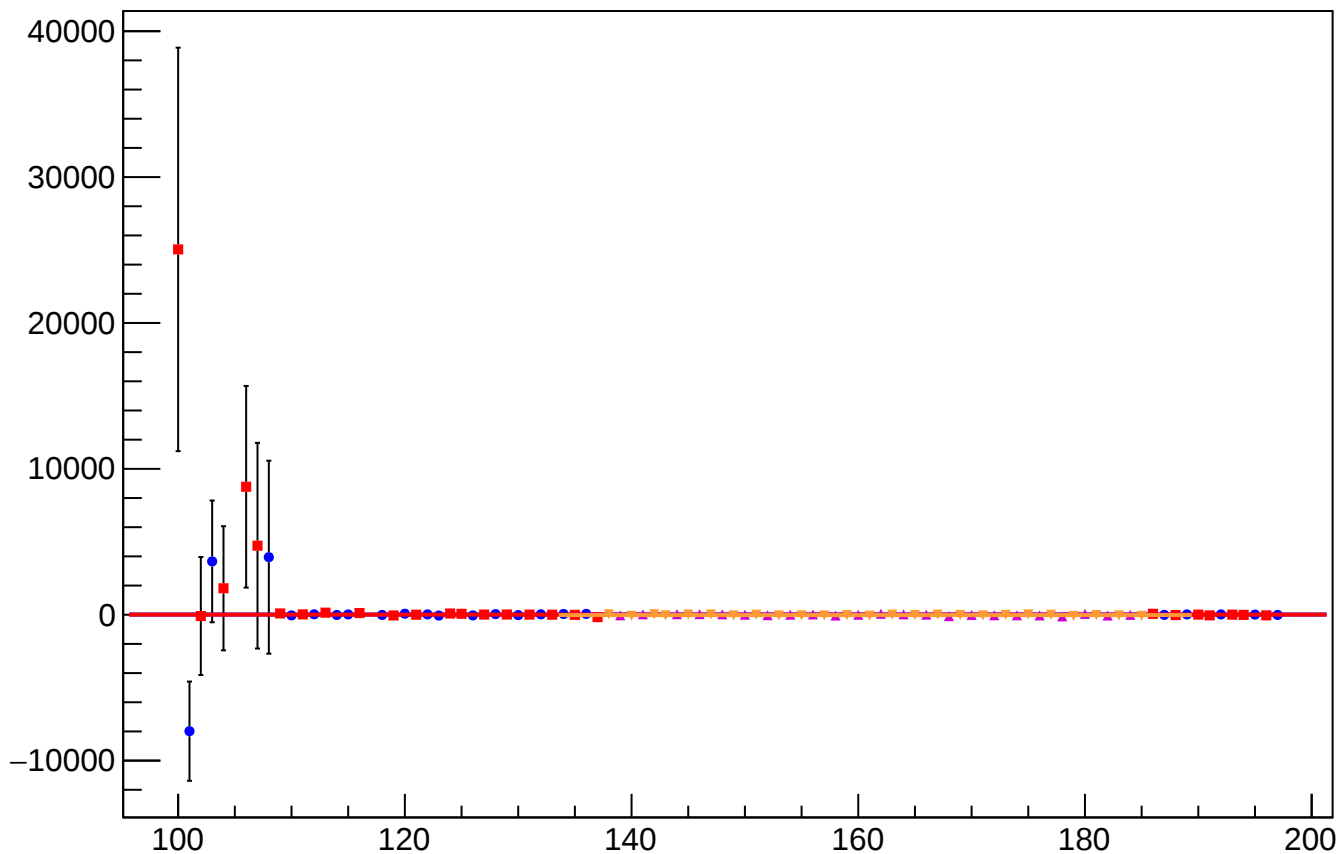
Right: 184.405+/-0.033 χ^2/NDF : 9575459.0/47

In: 184.988+/-0.027 χ^2/NDF : 5749088.8/44

Out: 195.416+/-0.028 χ^2/NDF : 7125442.5/50

All: 190.106+/-0.019 χ^2/NDF : 12947558.4/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 12.363+/-10.658 χ^2/NDF : 15.6/21

Left Out: -23.320+/-7.352 χ^2/NDF : 18.3/24

Right Out: 7.340+/-10.065 χ^2/NDF : 33.5/25

Left In: -6.386+/-7.577 χ^2/NDF : 38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

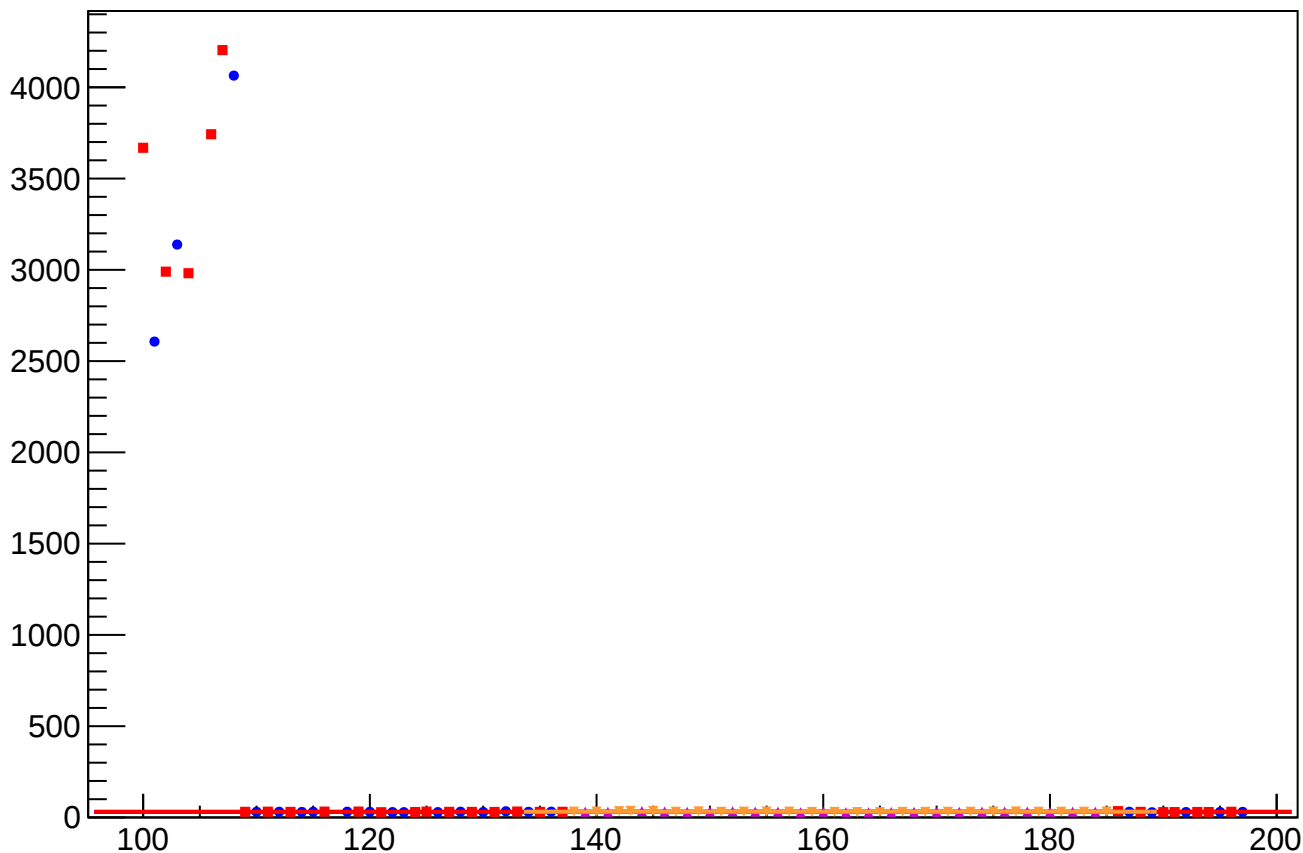
Right: 9.708+/-7.318 χ^2/NDF : 49.1/47

In: -0.091+/-6.175 χ^2/NDF : 56.3/44

Out: -12.653+/-5.937 χ^2/NDF : 57.8/50

All: -6.619+/-4.280 χ^2/NDF : 116.3/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.672 $\pm$ 0.008 χ^2 /NDF: 3024323.0/21

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.730 $\pm$ 0.007 χ^2 /NDF: 3475793.2/25

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

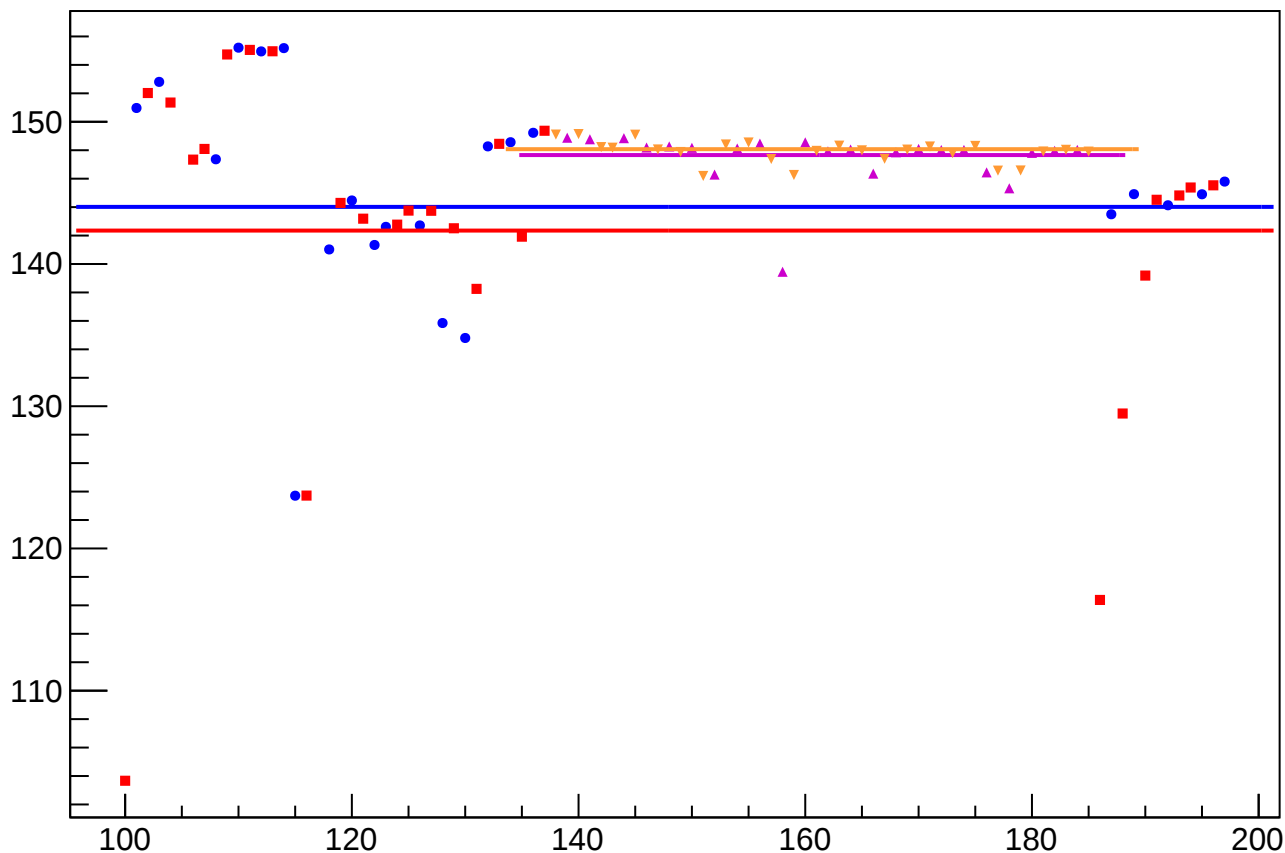
Right: 30.703 $\pm$ 0.005 χ^2 /NDF: 6500147.2/47

In: 31.206 $\pm$ 0.004 χ^2 /NDF: 3119669.3/44

Out: 31.224 $\pm$ 0.004 χ^2 /NDF: 3565142.0/50

All: 31.215 $\pm$ 0.003 χ^2 /NDF: 6684821.0/95

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.017 ± 0.000 $\chi^2/\text{NDF}: 3460826086.9/21$

Left Out: 148.074 ± 0.000 $\chi^2/\text{NDF}: 65673678.9/24$

Right Out: 142.351 ± 0.000 $\chi^2/\text{NDF}: 7330691401.1/25$

Left In: 147.660 ± 0.000 $\chi^2/\text{NDF}: 343892338.9/22$

Left: 147.875 ± 0.000 $\chi^2/\text{NDF}: 417177881.5/47$

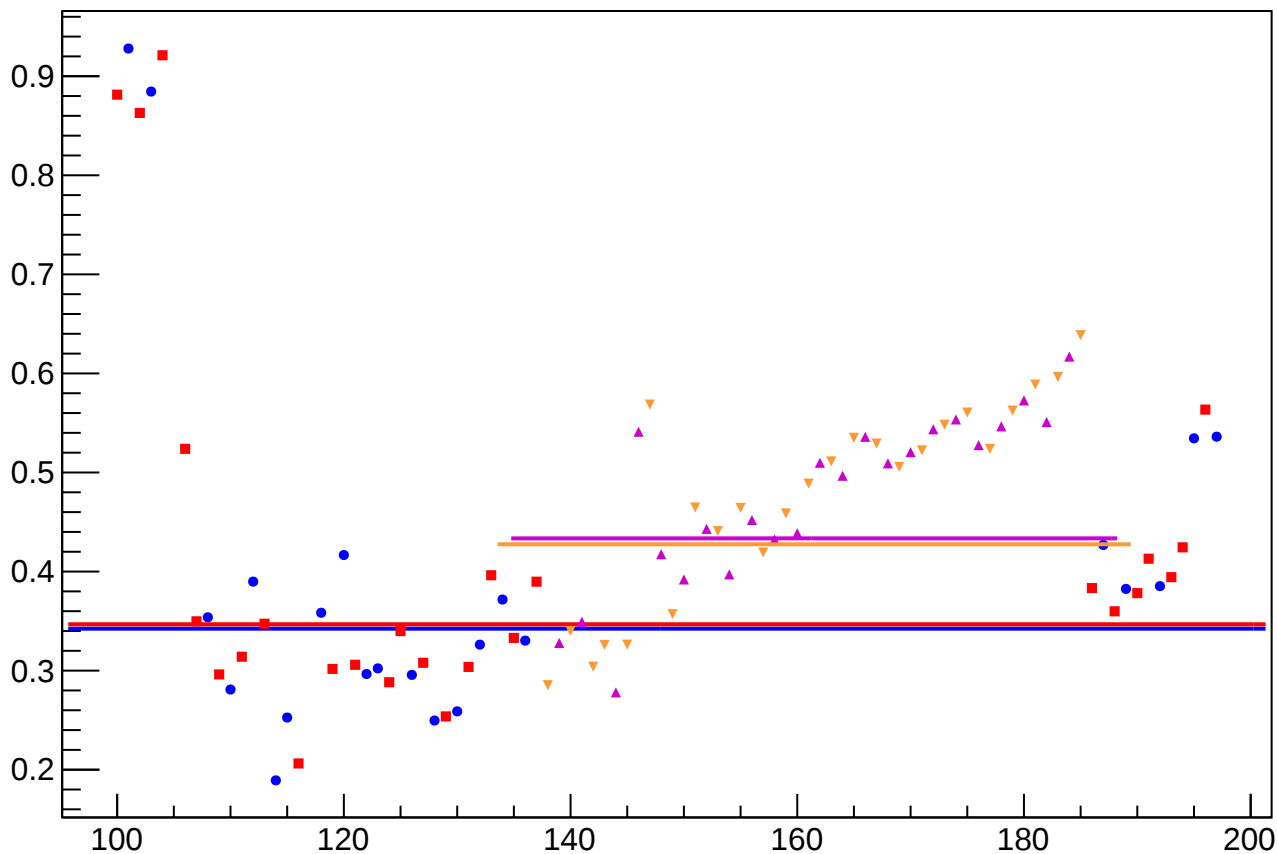
Right: 143.124 ± 0.000 $\chi^2/\text{NDF}: 10895391131.9/47$

In: 146.025 ± 0.000 $\chi^2/\text{NDF}: 4316226868.1/44$

Out: 145.410 ± 0.000 $\chi^2/\text{NDF}: 8808095739.7/50$

All: 145.701 ± 0.000 $\chi^2/\text{NDF}: 13155372186.0$

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.342+/-0.000 χ^2/NDF : 1743748.6/21

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.347+/-0.000 χ^2/NDF : 1599454.9/25

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

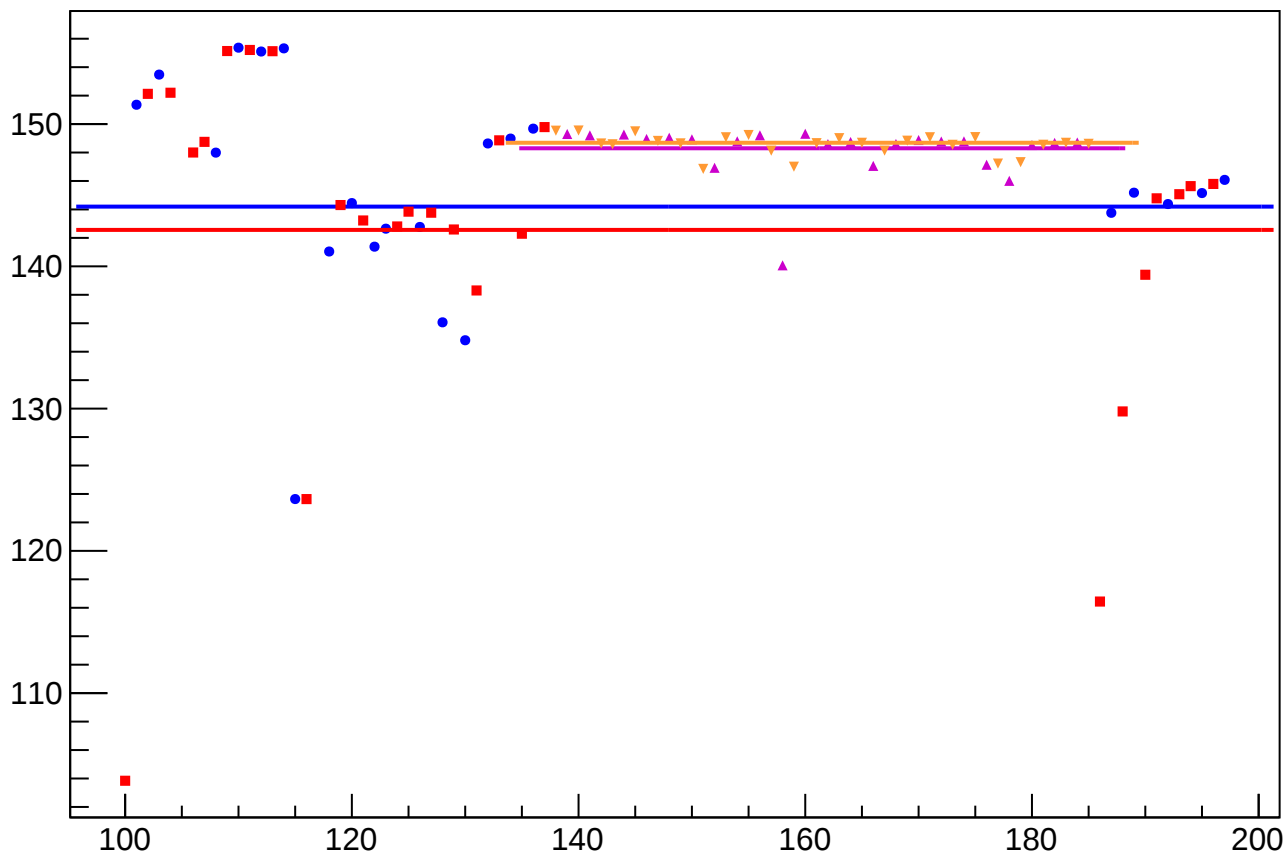
Right: 0.345+/-0.000 χ^2/NDF : 3344681.5/47

In: 0.393+/-0.000 χ^2/NDF :3863242.9/44

Out: 0.390+/-0.000 χ^2/NDF :4053911.5/50

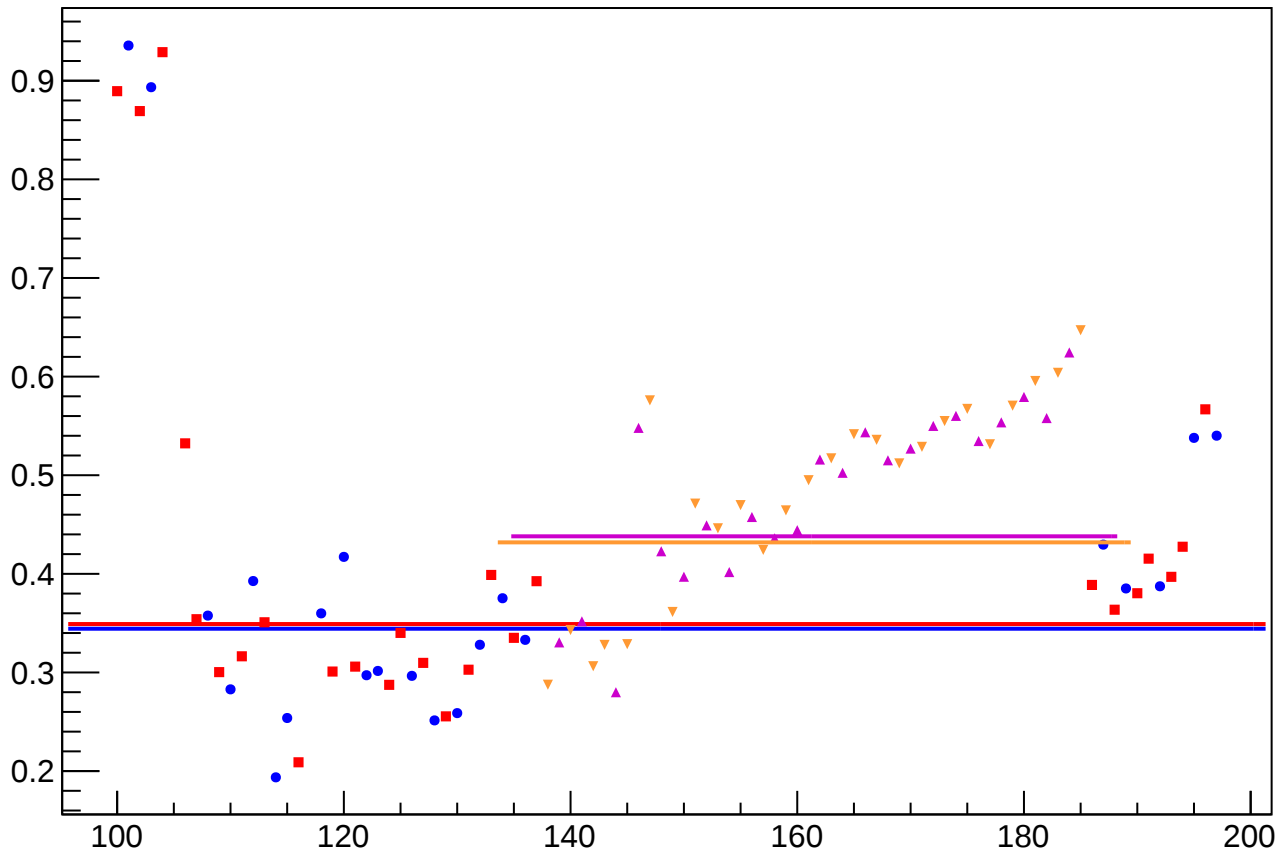
All: 0.391+/-0.000 χ^2/NDF : 7918314.2/95

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.198 $\pm$ 0.000	χ^2 /NDF: 3506506632.6/21	Left: 148.500 $\pm$ 0.000	χ^2 /NDF: 391414535.1/47
Left Out: 148.687 $\pm$ 0.000	χ^2 /NDF: 52285197.5/24	Right: 143.322 $\pm$ 0.000	χ^2 /NDF: 10881677349.6/47
Right Out: 142.561 $\pm$ 0.000	χ^2 /NDF: 7276046434.0/25	In: 146.448 $\pm$ 0.000	χ^2 /NDF: 4476035921.6/44
Left In: 148.298 $\pm$ 0.000	χ^2 /NDF: 332527463.6/22	Out: 145.824 $\pm$ 0.000	χ^2 /NDF: 8918412629.8/50
		All: 146.119 $\pm$ 0.000	χ^2 /NDF: 13425911042.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.344 $\pm$ 0.000 χ^2 /NDF: 1746771.8/21

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.349 $\pm$ 0.000 χ^2 /NDF: 1604212.2/25

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3432903.3/47

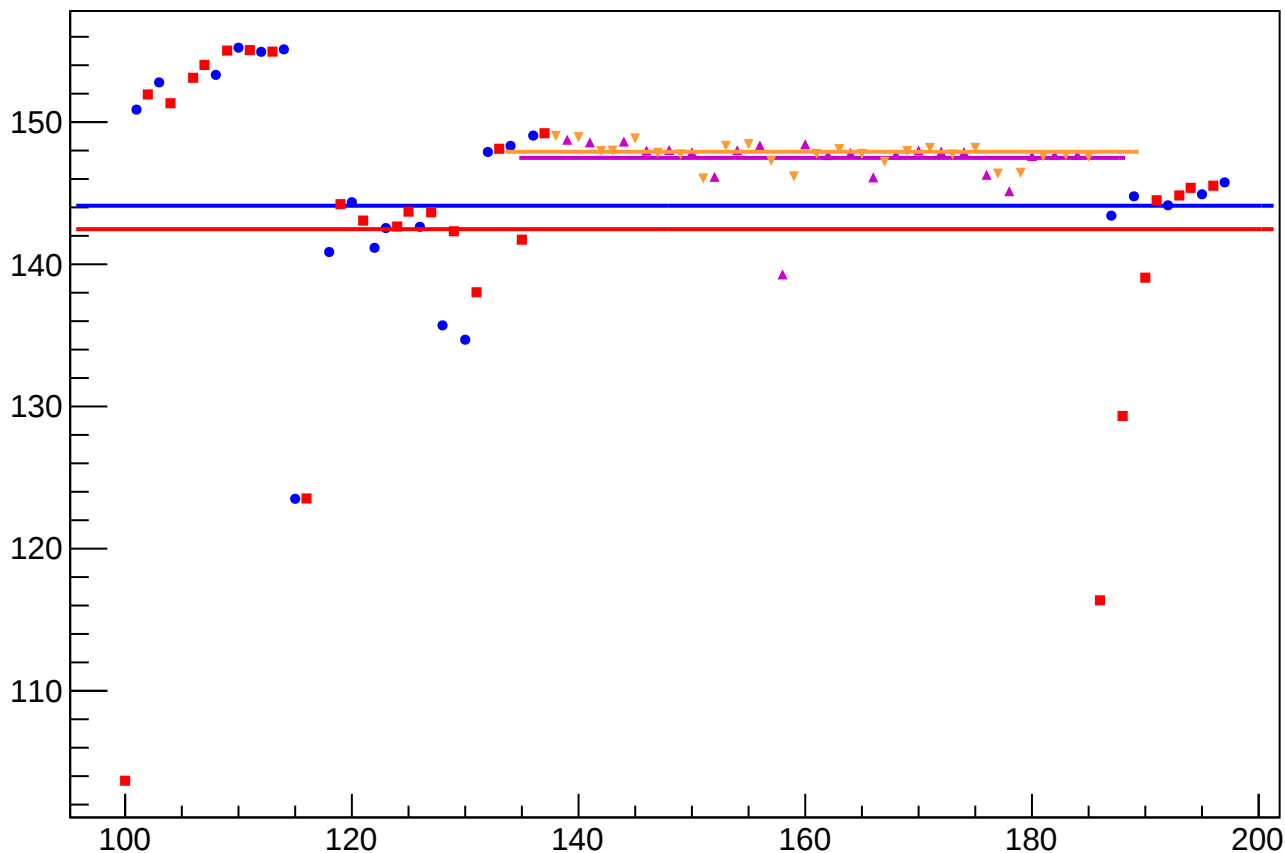
Right: 0.347 $\pm$ 0.000 χ^2 /NDF: 3352645.9/47

In: 0.396 $\pm$ 0.000 χ^2 /NDF:3916965.7/44

Out: 0.393 $\pm$ 0.000 χ^2 /NDF:4110391.9/50

All: 0.394 $\pm$ 0.000 χ^2 /NDF: 8028429.3/95

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.118 $\pm$ 0.000 χ^2 /NDF: 3671315963.7/21

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.471 $\pm$ 0.000 χ^2 /NDF: 7717637527.5/25

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

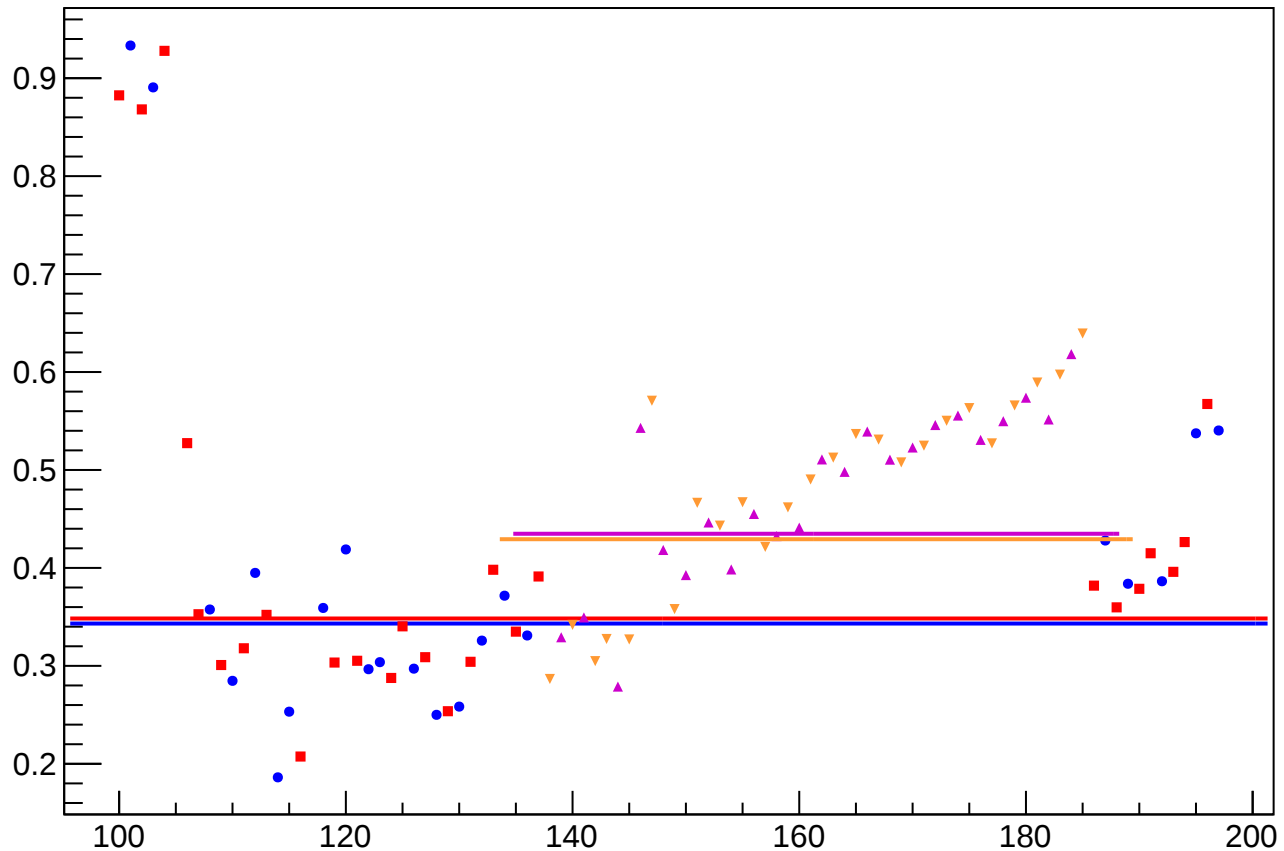
Right: 143.237 $\pm$ 0.000 χ^2 /NDF: 11489782696.6/47

In: 145.973 $\pm$ 0.000 χ^2 /NDF: 4447470376.8/44

Out: 145.380 $\pm$ 0.000 χ^2 /NDF: 9047321881.5/50

All: 145.661 $\pm$ 0.000 χ^2 /NDF: 13523438427.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.343+/-0.000 χ^2/NDF : 1764417.2/21

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.348+/-0.000 χ^2/NDF : 1602592.3/25

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

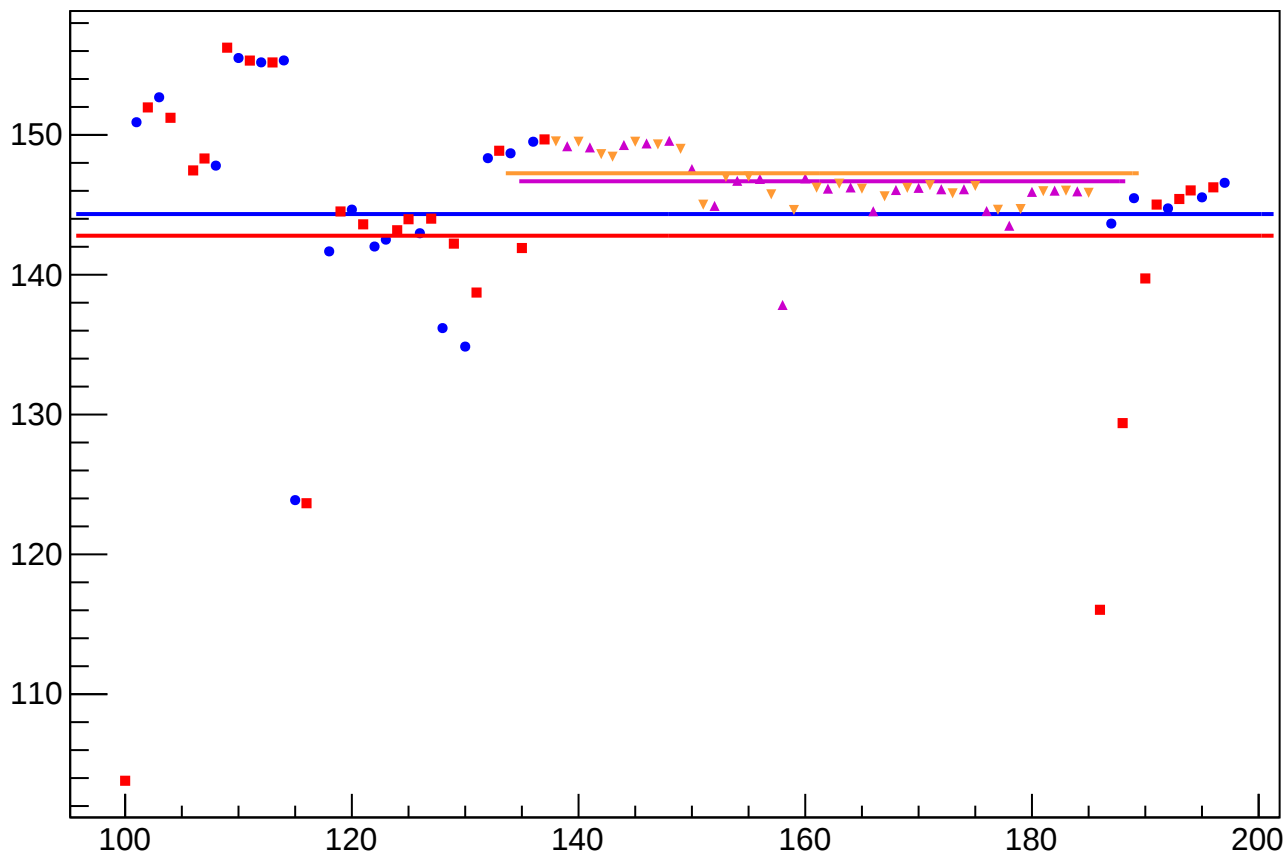
Right: 0.346+/-0.000 χ^2/NDF : 3368976.5/47

In: 0.394+/-0.000 χ^2/NDF :3893610.1/44

Out: 0.392+/-0.000 χ^2/NDF :4054349.4/50

All: 0.393+/-0.000 χ^2/NDF : 7948683.2/95

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.340 $\pm$ 0.000 χ^2 /NDF: 3180815205.9/21

Left Out: 147.257 $\pm$ 0.000 χ^2 /NDF: 261906278.3/24

Right Out: 142.791 $\pm$ 0.000 χ^2 /NDF: 7033034622.5/25

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2 /NDF: 830580031.2/47

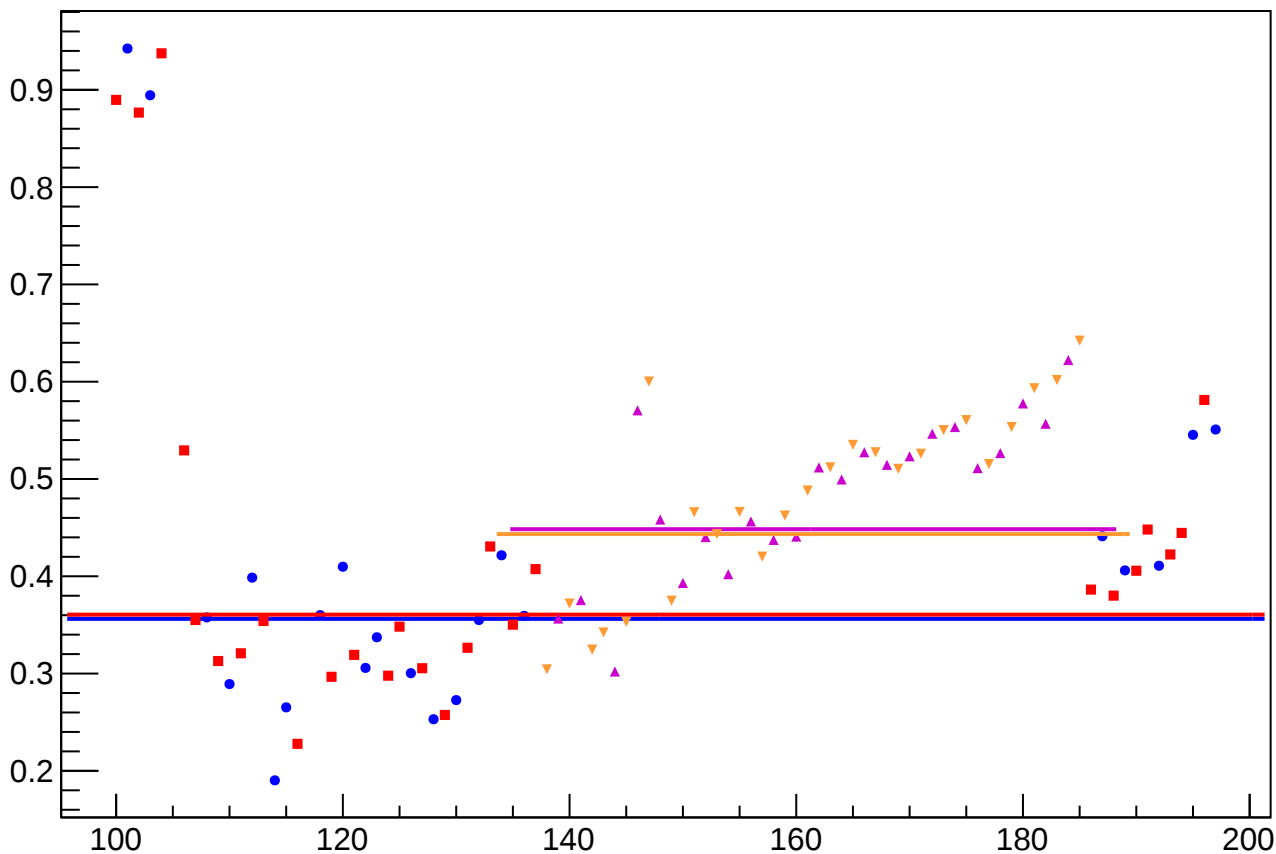
Right: 143.510 $\pm$ 0.000 χ^2 /NDF: 10296523463.9/47

In: 145.648 $\pm$ 0.000 χ^2 /NDF: 3932905066.5/44

Out: 145.199 $\pm$ 0.000 χ^2 /NDF: 8094072290.5/50

All: 145.412 $\pm$ 0.000 χ^2 /NDF: 12042371972.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.356+/-0.000 χ^2/NDF : 1735527.4/21

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.361+/-0.000 χ^2/NDF : 1587539.3/25

Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2602838.0/47

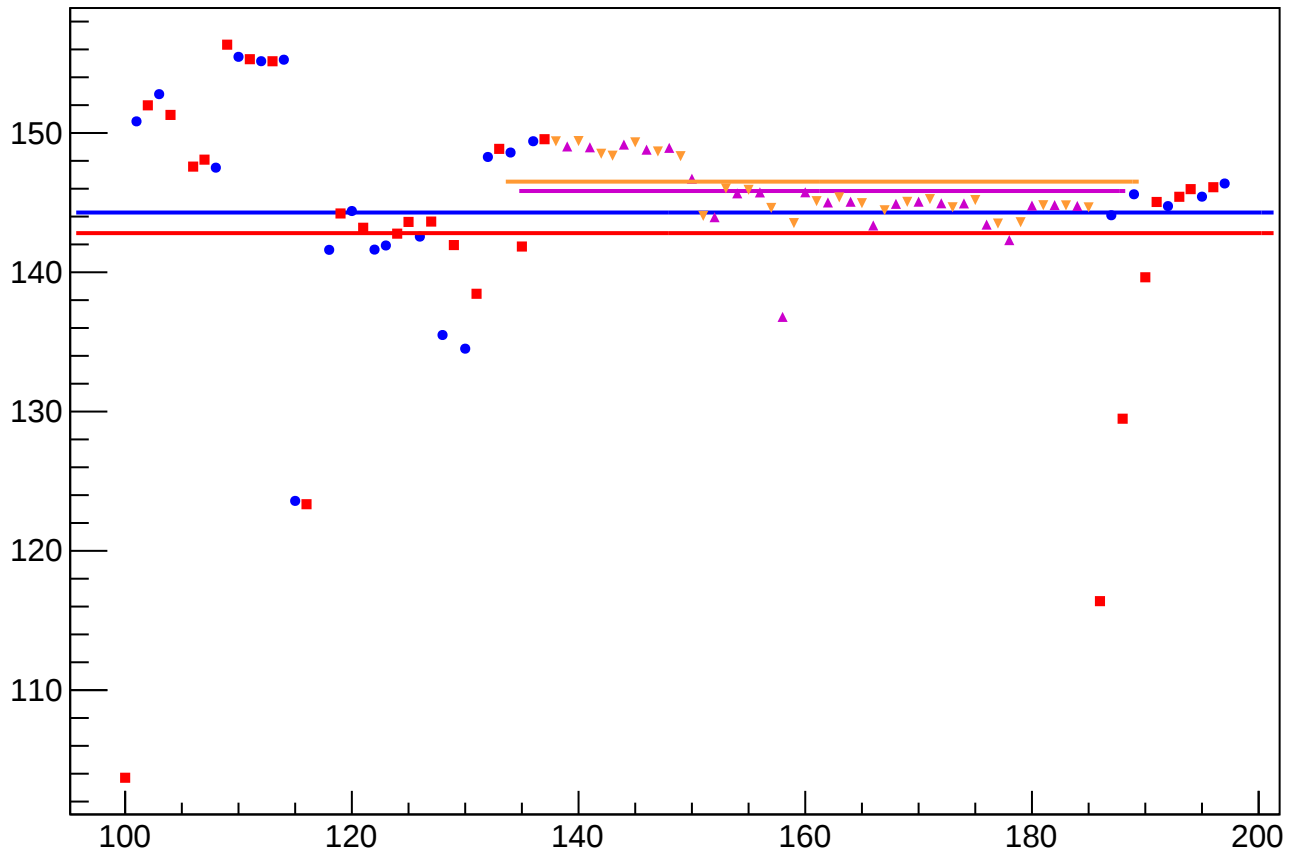
Right: 0.359+/-0.000 χ^2/NDF : 3324360.9/47

In: 0.408+/-0.000 χ^2/NDF :3464788.5/44

Out: 0.405+/-0.000 χ^2/NDF :3617637.7/50

All: 0.406+/-0.000 χ^2/NDF : 7083315.9/95

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.290 $\pm$ 0.000 χ^2 /NDF: 3299111763.3/21

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 142.811 $\pm$ 0.000 χ^2 /NDF: 7005019438.7/25

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

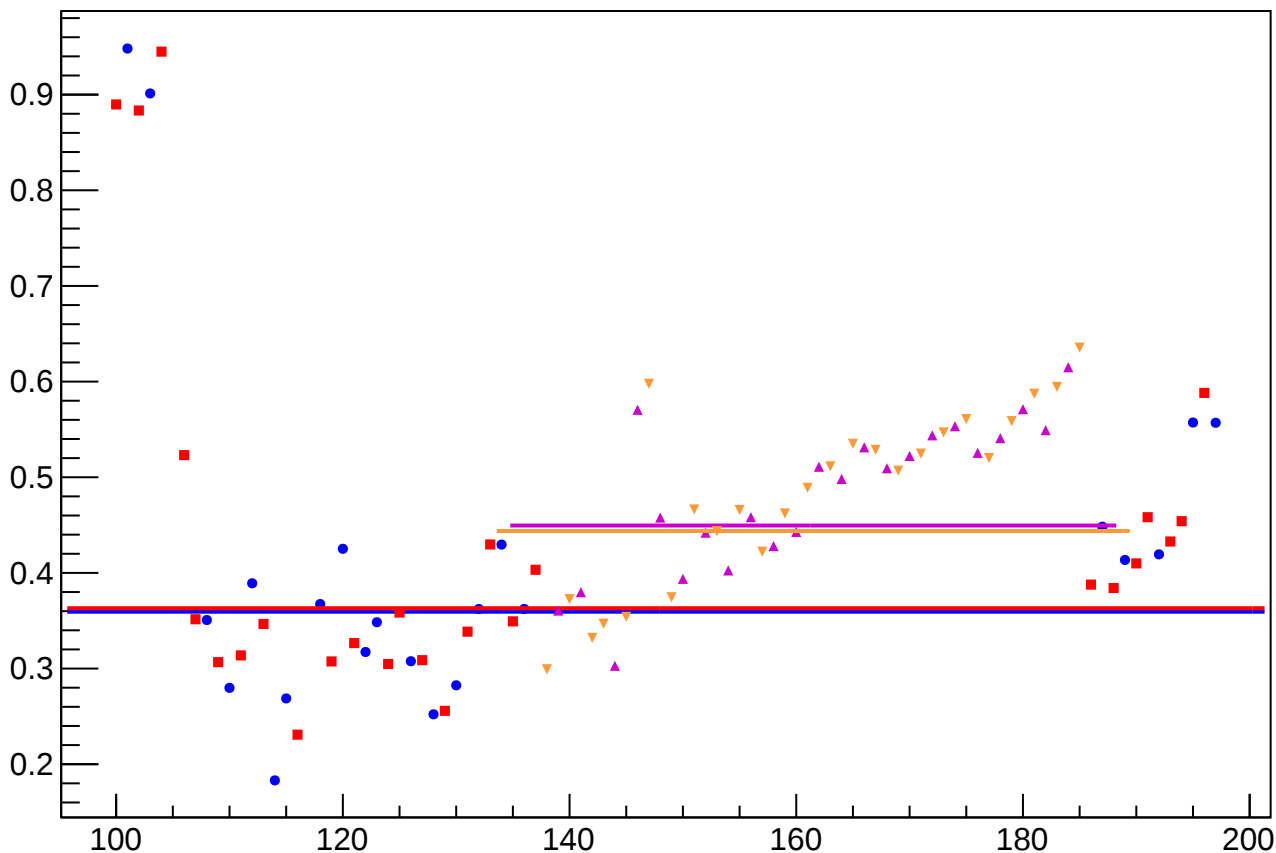
Right: 143.495 $\pm$ 0.000 χ^2 /NDF: 10378038282.5/47

In: 145.158 $\pm$ 0.000 χ^2 /NDF: 4073514505.1/44

Out: 144.818 $\pm$ 0.000 χ^2 /NDF: 7948278679.1/50

All: 144.979 $\pm$ 0.000 χ^2 /NDF: 12030524879.1

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.359+/-0.000 χ^2/NDF : 1773588.6/21

Left Out: 0.444+/-0.000 χ^2/NDF :1460383.7/24

Right Out: 0.363+/-0.000 χ^2/NDF : 1601452.5/25

Left In: 0.450+/-0.000 χ^2/NDF :1092776.5/22

Left: 0.447+/-0.000 χ^2/NDF : 2555905.8/47

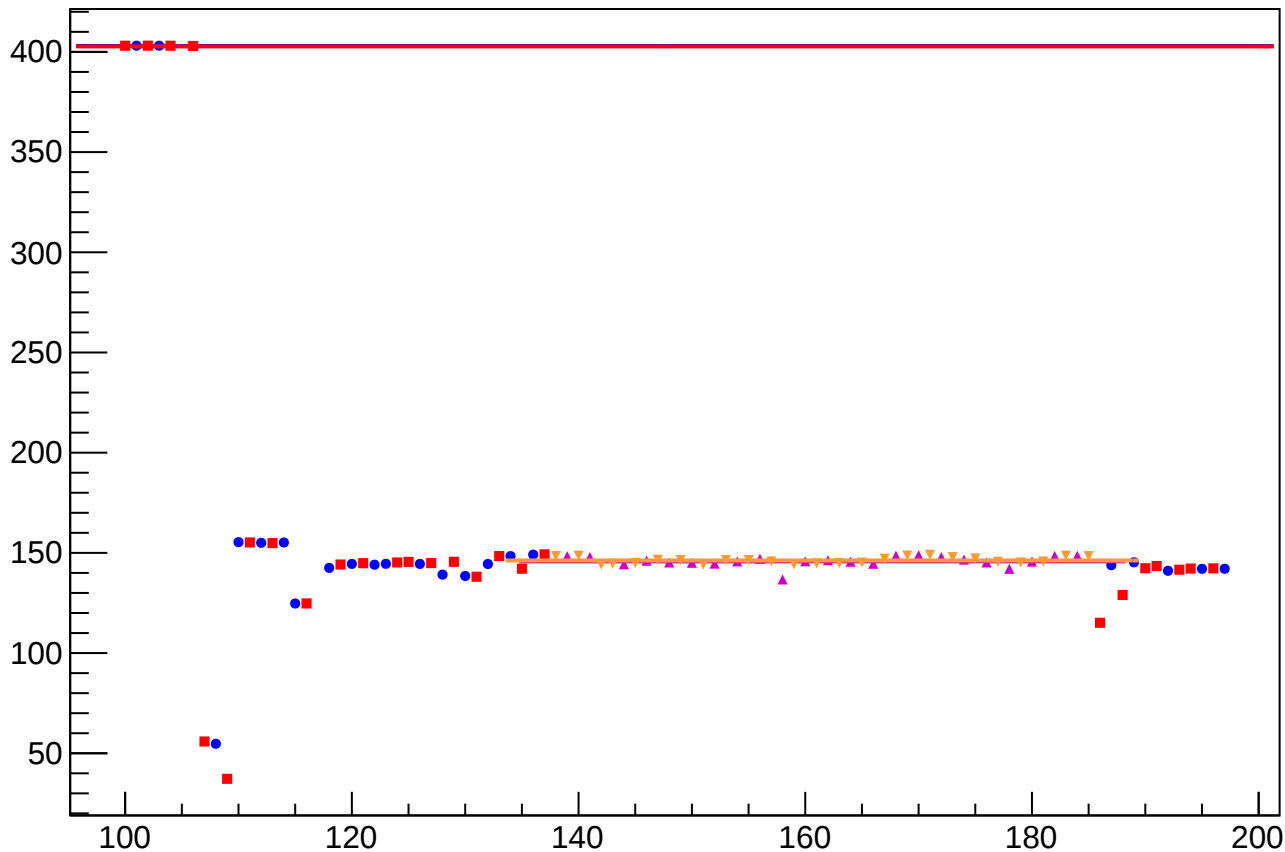
Right: 0.361+/-0.000 χ^2/NDF : 3375929.5/47

In: 0.410+/-0.000 χ^2/NDF :3439751.1/44

Out: 0.407+/-0.000 χ^2/NDF :3578706.5/50

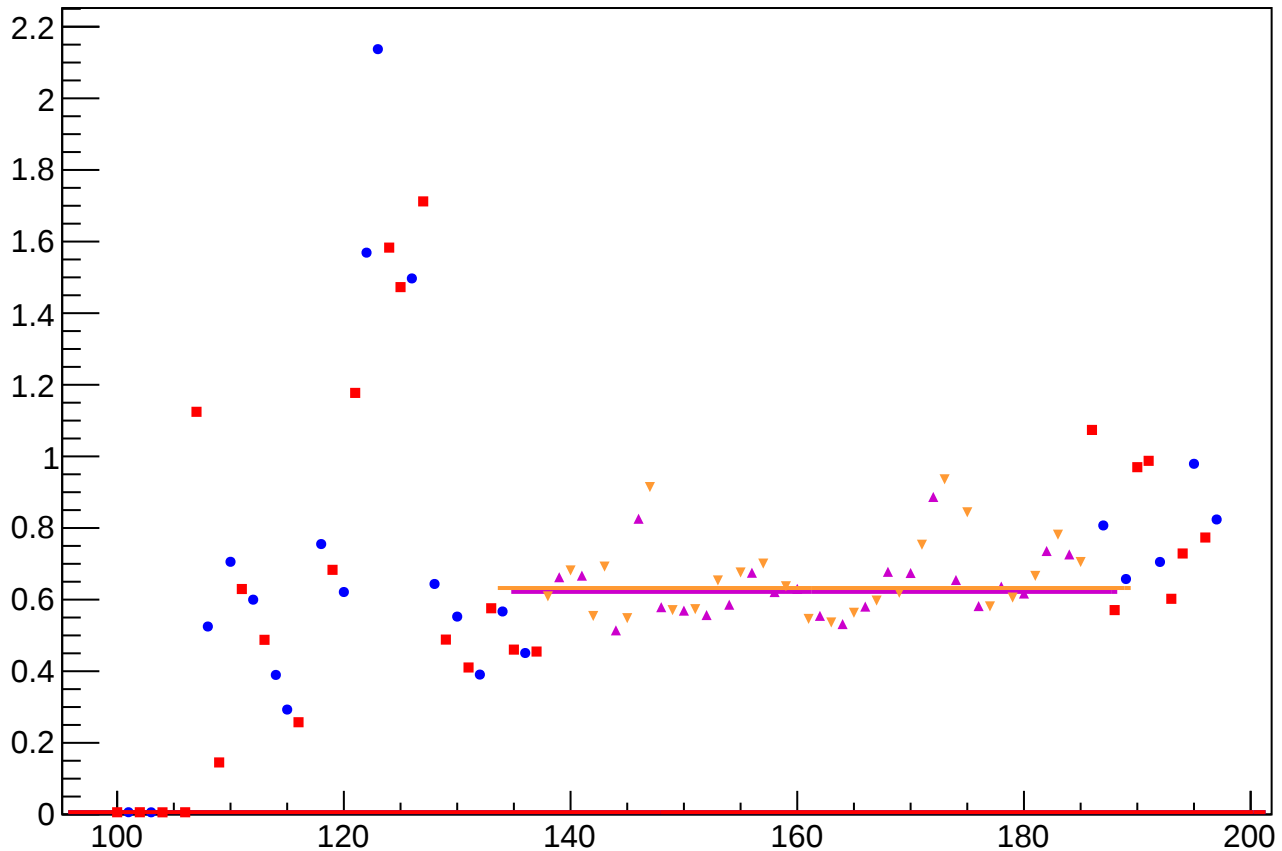
All: 0.408+/-0.000 χ^2/NDF : 7019984.0/95

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.925+/-0.000	χ^2/NDF : 1357436513583.2/21	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.829+/-0.000	χ^2/NDF : 4970131052940.7
Right Out: 402.744+/-0.000	χ^2/NDF : 3612154453238.6/25	In: 402.634+/-0.000	χ^2/NDF : 3689123757778.9/44
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.484+/-0.000	χ^2/NDF : 5969852457739.3/5
		All: 402.554+/-0.000	χ^2/NDF : 965935015776

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 13738240.5/21

Left Out: 0.632+/-0.000 χ^2/NDF :613604.5/24

Right Out: 0.006+/-0.000 χ^2/NDF : 15987643.2/25

Left In: 0.622+/-0.000 χ^2/NDF :399965.3/22

Left: 0.627+/-0.000 χ^2/NDF : 1017722.4/47

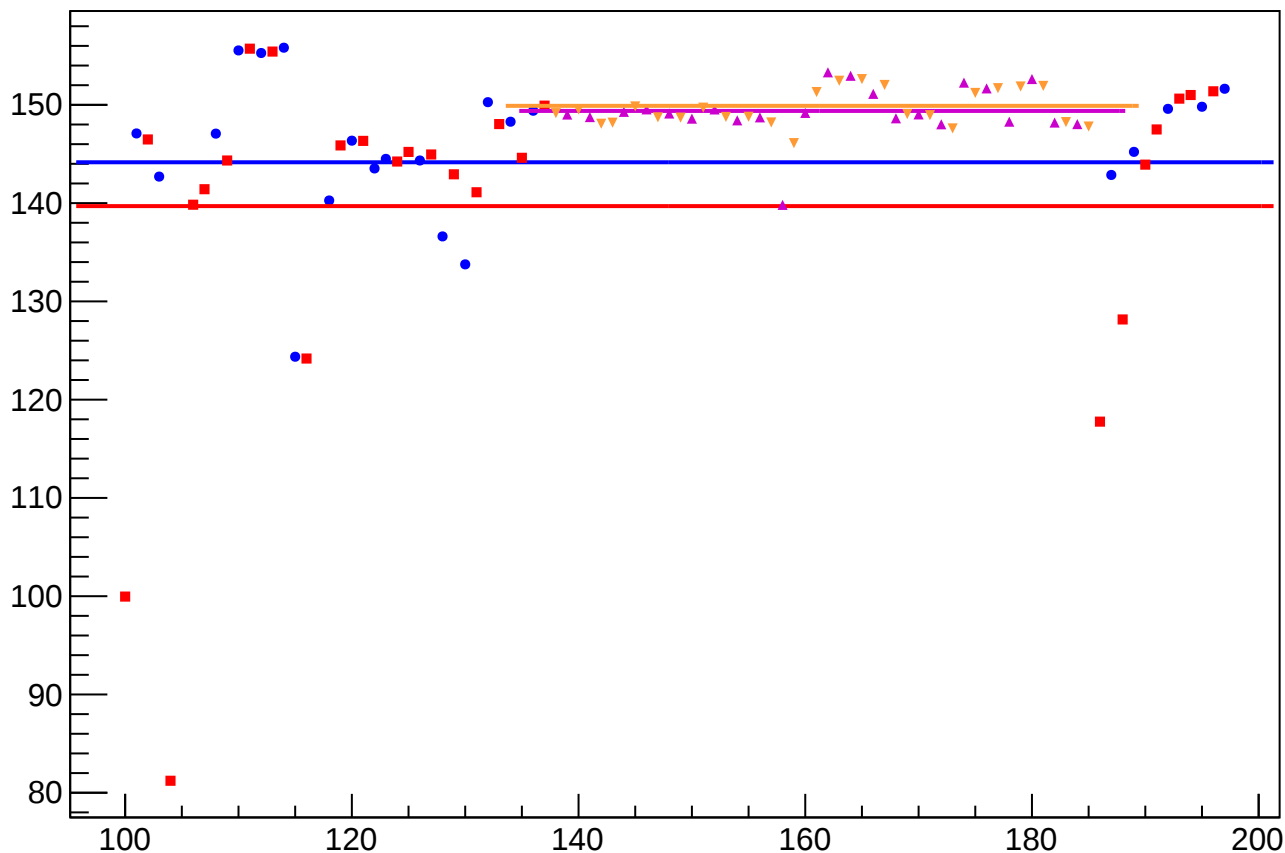
Right: 0.006+/-0.000 χ^2/NDF : 29725916.9/47

In: 0.007+/-0.000 χ^2/NDF :40819848.6/44

Out: 0.007+/-0.000 χ^2/NDF :44675054.7/50

All: 0.007+/-0.000 χ^2/NDF : 85494930.3/95

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 144.157+/-0.000 χ^2/NDF : 1192512146.1/21

Left Out: 149.900+/-0.000 χ^2/NDF : 162845622.6/24

Right Out: 139.696+/-0.000 χ^2/NDF : 2920067582.0/25

Left In: 149.382+/-0.000 χ^2/NDF : 434657827.5/22

Left: 149.650+/-0.000 χ^2/NDF : 604081739.6/47

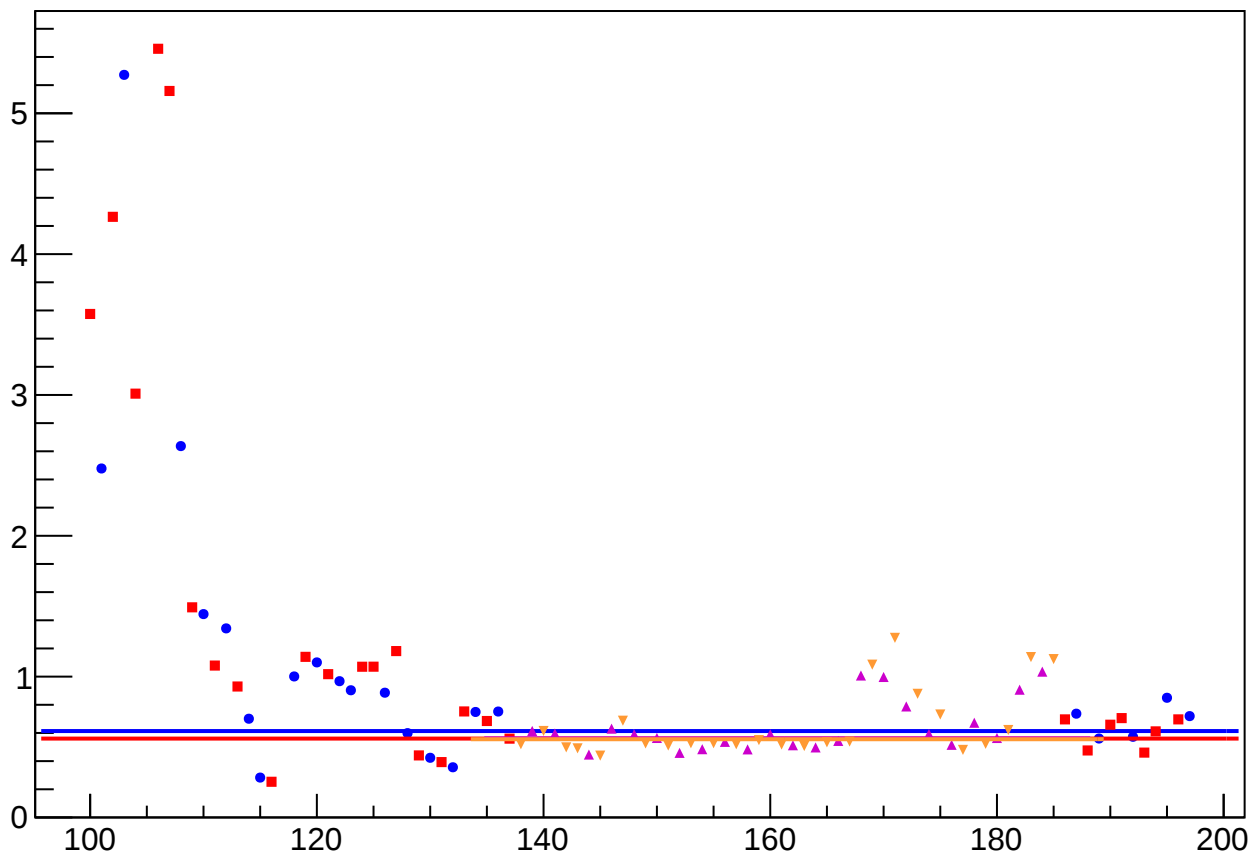
Right: 141.570+/-0.000 χ^2/NDF : 4292607515.8/47

In: 148.085+/-0.000 χ^2/NDF : 1947449751.9/44

Out: 146.859+/-0.000 χ^2/NDF : 4657449294.4/50

All: 147.429+/-0.000 χ^2/NDF : 6655469468.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.614 $\pm$ 0.000 χ^2 /NDF: 3683965.1/21

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 4864583.4/25

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3081194.0/47

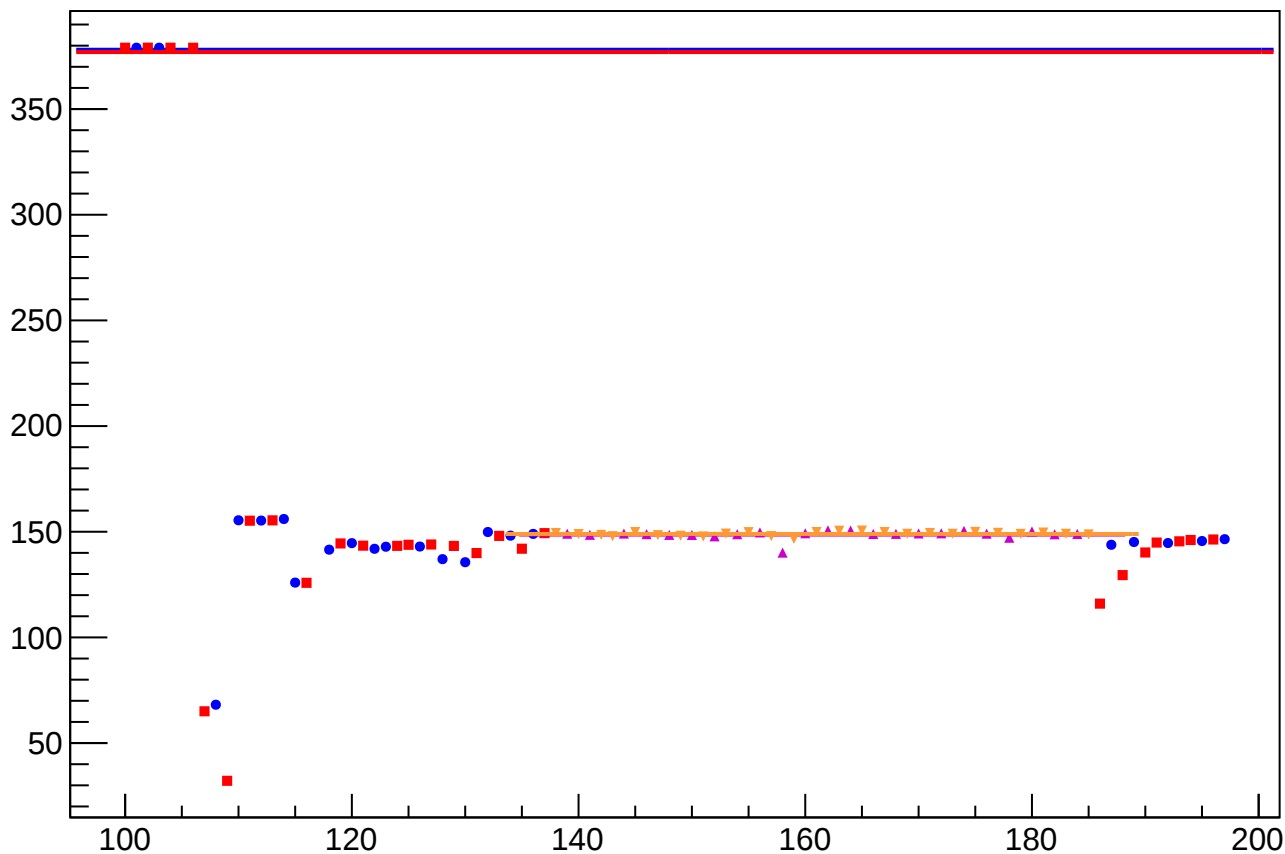
Right: 0.583 $\pm$ 0.000 χ^2 /NDF: 8600264.5/47

In: 0.575 $\pm$ 0.000 χ^2 /NDF:5052379.2/44

Out: 0.557 $\pm$ 0.000 χ^2 /NDF:6638905.8/50

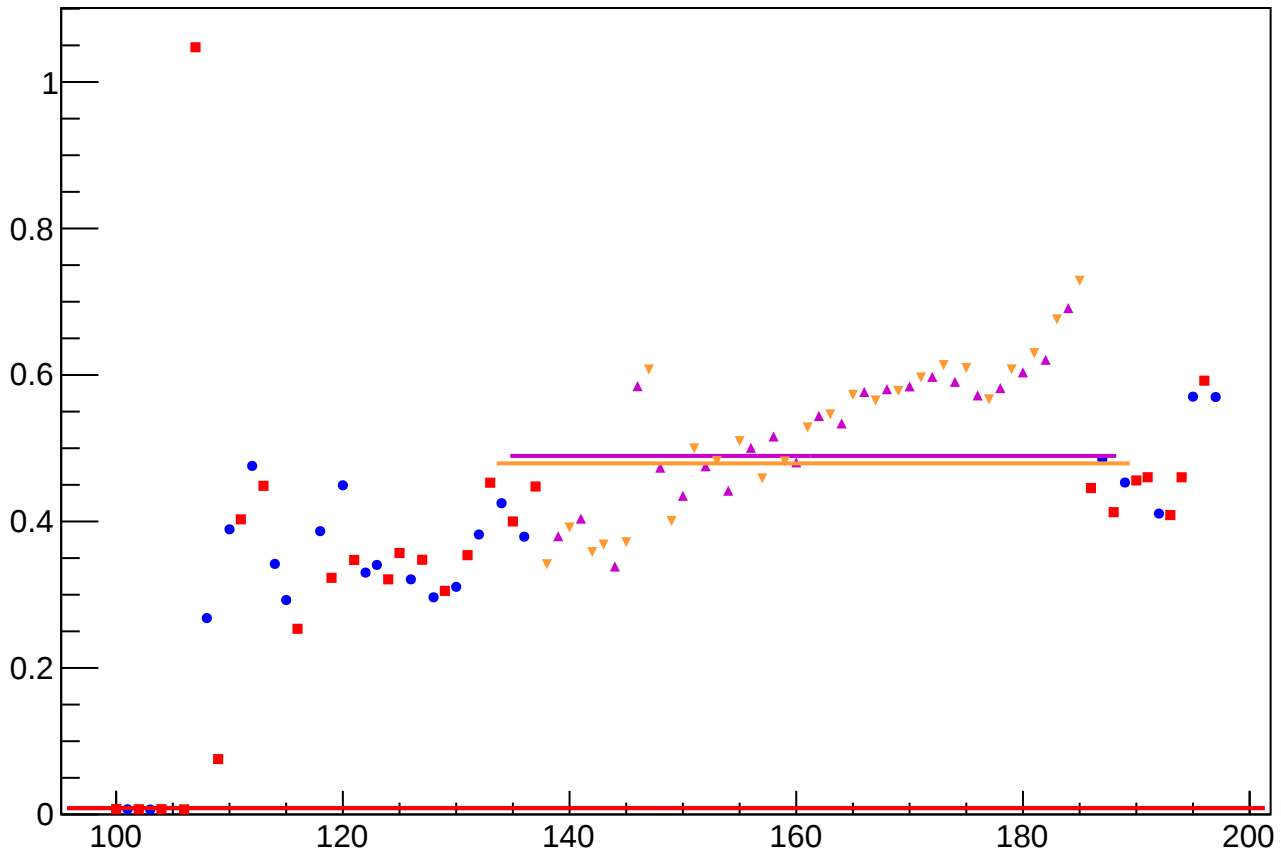
All: 0.565 $\pm$ 0.000 χ^2 /NDF: 11712496.5/95

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.073+/-0.000 χ^2/NDF : 3157974702136.3/21
 Left Out: 148.944+/-0.000 χ^2/NDF : 63976941.3/24
 Right Out: 376.980+/-0.000 χ^2/NDF : 9401470252398.8/25
 Left In: 148.672+/-0.000 χ^2/NDF : 252846428.3/22
 Left: 148.814+/-0.000 χ^2/NDF : 319467494.9/47
 Right: 377.491+/-0.000 χ^2/NDF : 12567925294569.1
 In: 376.902+/-0.000 χ^2/NDF : 6739187437258.8/44
 Out: 375.865+/-0.000 χ^2/NDF : 13267098811022.0
 All: 376.350+/-0.000 χ^2/NDF : 200139559014

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 15353961.3/21

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 17260967.7/25

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

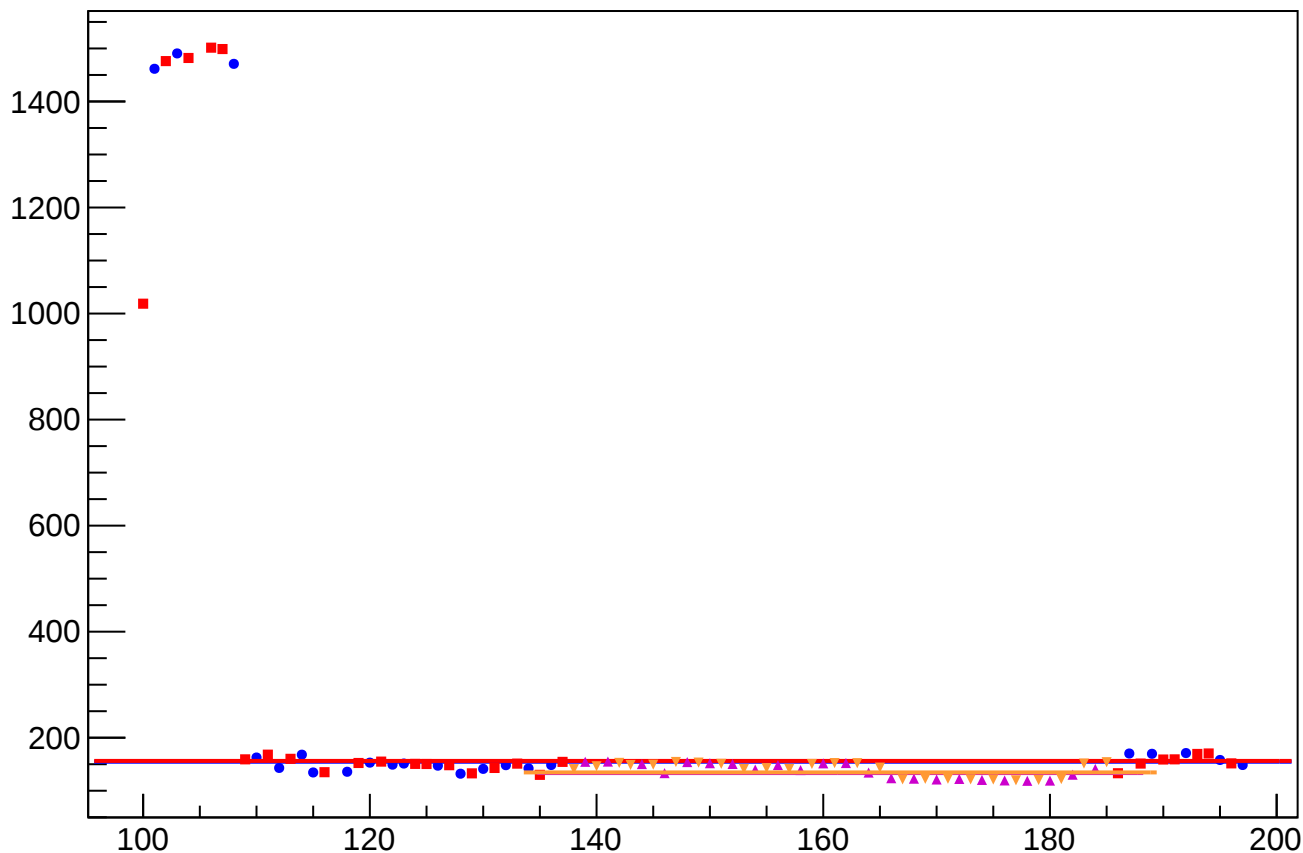
Right: 0.009+/-0.000 χ^2/NDF : 32615308.6/47

In: 0.011+/-0.000 χ^2/NDF :47905784.3/44

Out: 0.011+/-0.000 χ^2/NDF :51702013.2/50

All: 0.011+/-0.000 χ^2/NDF : 99607798.7/95

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.727 $\pm$ 0.000 χ^2 /NDF: 25452281513.3/21

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 156.232 $\pm$ 0.000 χ^2 /NDF: 34647241256.2/25

Left In: 133.337 $\pm$ 0.000 χ^2 /NDF: 4303812119.2/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8697951676.8/47

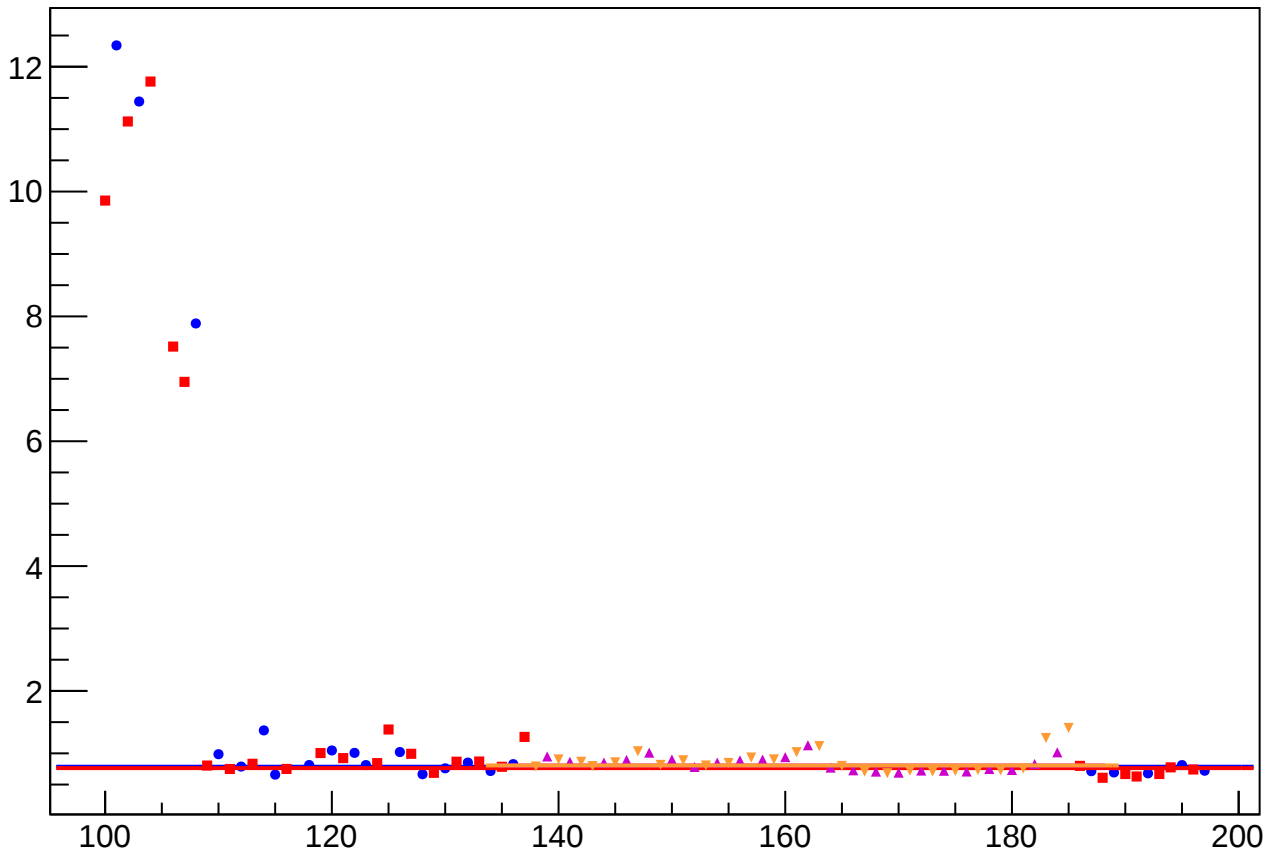
Right: 155.567 $\pm$ 0.000 χ^2 /NDF: 60112601032.6/47

In: 140.023 $\pm$ 0.000 χ^2 /NDF: 33008185555.0/44

Out: 142.254 $\pm$ 0.000 χ^2 /NDF: 42982694364.3/50

All: 141.198 $\pm$ 0.000 χ^2 /NDF: 76077560777.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.785 $\pm$ 0.000 χ^2 /NDF: 2763611.7/21

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.763 $\pm$ 0.000 χ^2 /NDF: 3122641.0/25

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

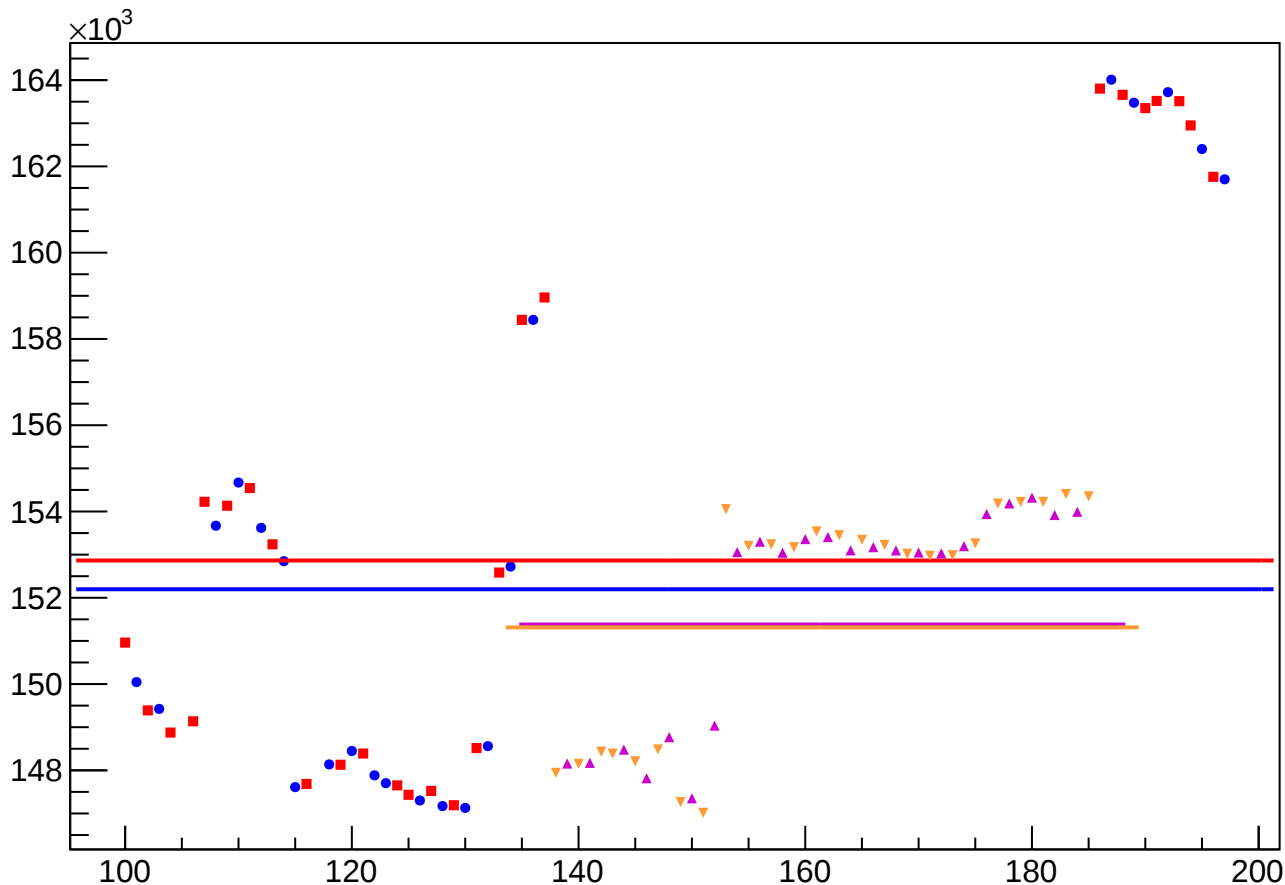
Right: 0.773 $\pm$ 0.000 χ^2 /NDF: 5891857.9/47

In: 0.799 $\pm$ 0.000 χ^2 /NDF:3249402.0/44

Out: 0.791 $\pm$ 0.000 χ^2 /NDF:3843868.4/50

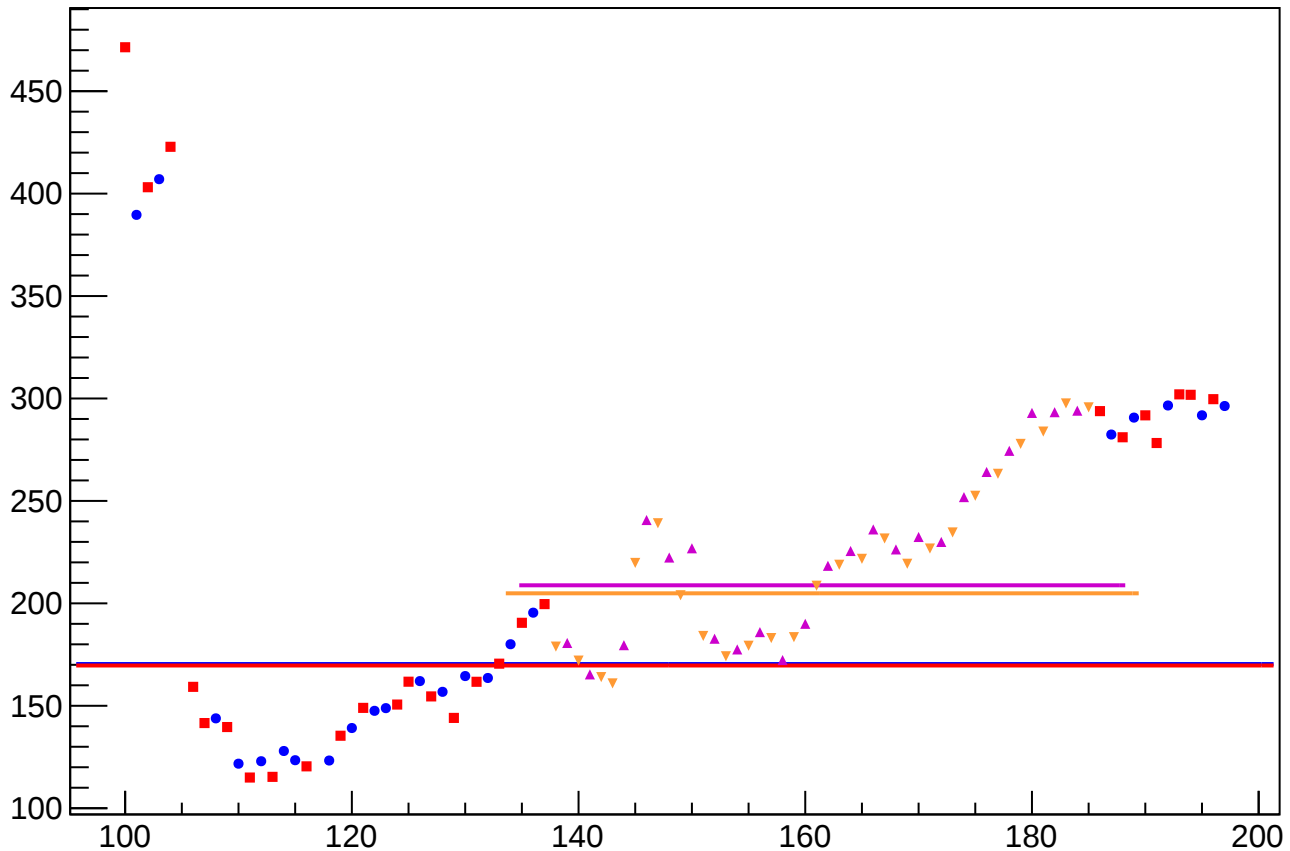
All: 0.795 $\pm$ 0.000 χ^2 /NDF: 7095379.0/95

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 152197.455+/-0.059	χ^2/NDF : 7963160478.1/21	Left: 151345.082+/-0.035	χ^2/NDF : 5518562148.3/4
Left Out: 151313.284+/-0.049	χ^2/NDF : 3153768134.8/24	Right: 152553.637+/-0.040	χ^2/NDF : 17364197820.3/24
Right Out: 152864.181+/-0.055	χ^2/NDF : 9332927680.7/25	In: 151730.882+/-0.039	χ^2/NDF : 10436413867.4/4
Left In: 151380.236+/-0.051	χ^2/NDF : 2363895785.3/22	Out: 151992.731+/-0.036	χ^2/NDF : 12931290482.0/22
		All: 151869.411+/-0.027	χ^2/NDF : 233919509.3/22

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 170.373+/-0.042 χ^2/NDF : 2388514.7/21

Left Out: 204.900+/-0.034 χ^2/NDF : 1056380.8/24

Right Out: 169.670+/-0.039 χ^2/NDF : 2943201.2/25

Left In: 208.813+/-0.036 χ^2/NDF : 1001936.6/22

Left: 206.758+/-0.025 χ^2/NDF : 2064453.9/47

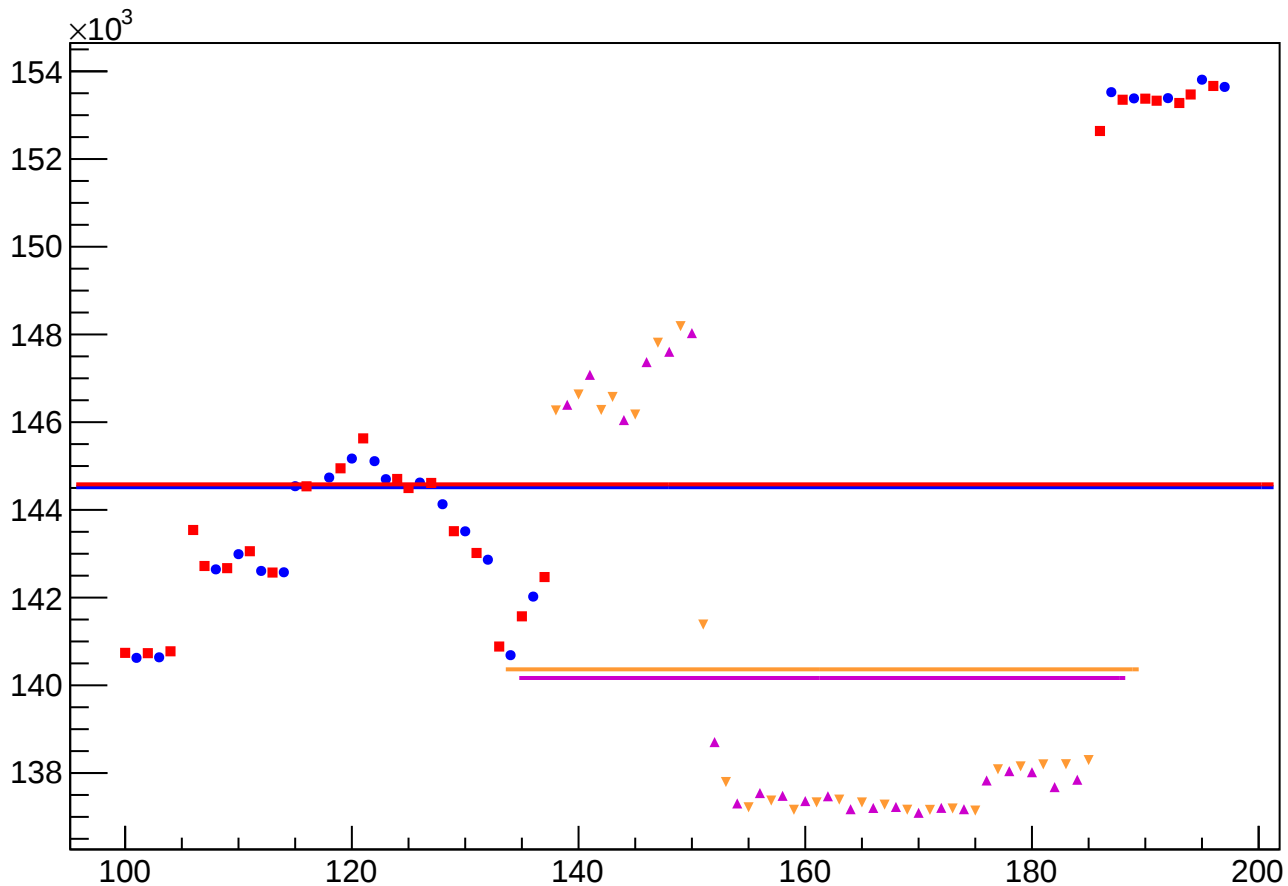
Right: 169.998+/-0.028 χ^2/NDF : 5331867.3/47

In: 192.319+/-0.027 χ^2/NDF : 3874353.3/44

Out: 189.466+/-0.026 χ^2/NDF : 4458401.8/50

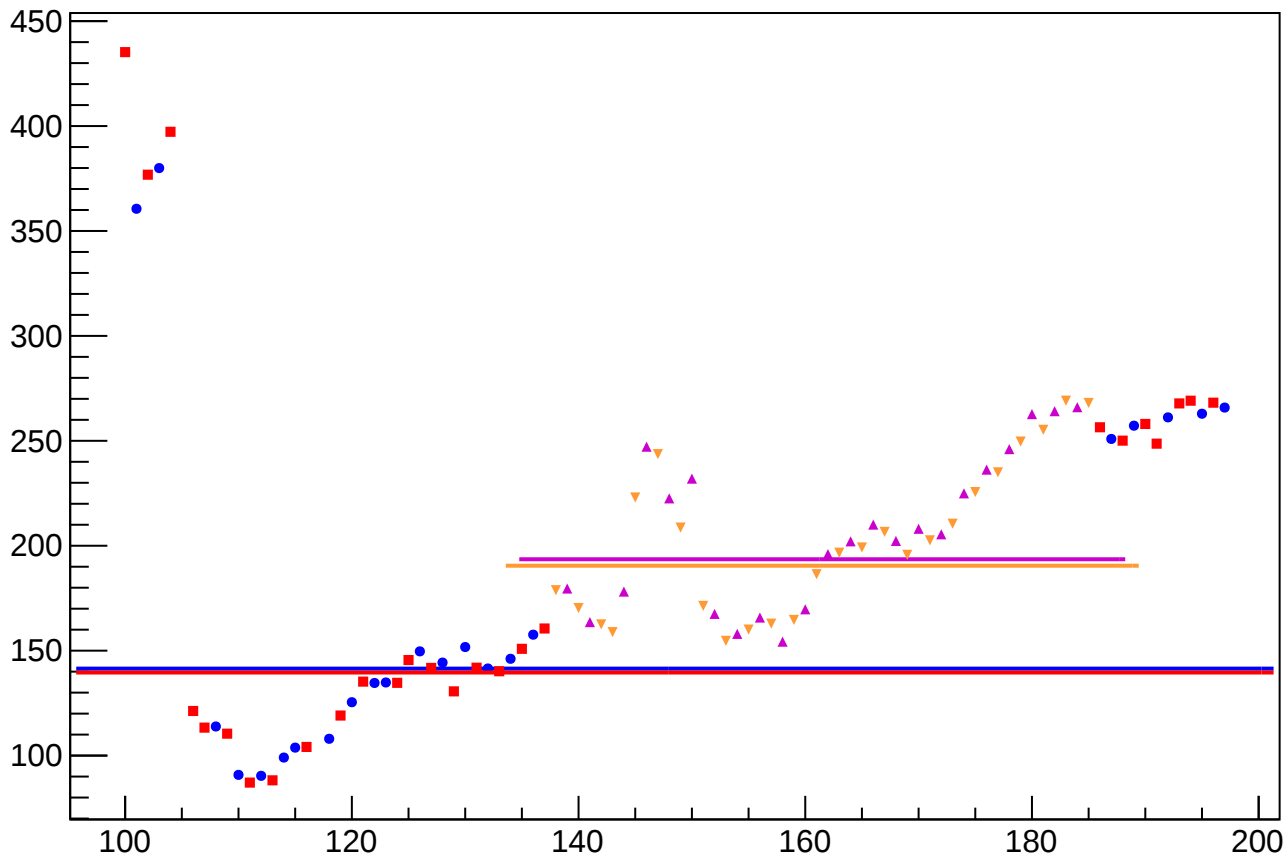
All: 190.810+/-0.019 χ^2/NDF : 8338515.1/95

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 144517.231+/-0.050	χ^2/NDF : 4653661193.3/21	Left: 140270.460+/-0.033	χ^2/NDF : 16714620354.4
Left Out: 140364.444+/-0.045	χ^2/NDF : 8677078677.7/24	Right: 144552.530+/-0.034	χ^2/NDF : 10685484985.5
Right Out: 144582.466+/-0.046	χ^2/NDF : 6030894255.4/25	In: 142238.195+/-0.034	χ^2/NDF : 16684160292.6/4
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 142444.866+/-0.032	χ^2/NDF : 18999749543.1
		All: 142348.214+/-0.023	χ^2/NDF : 357031872

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 141.442+/-0.035 χ^2/NDF : 2898618.8/21

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 139.589+/-0.032 χ^2/NDF : 3541022.4/25

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

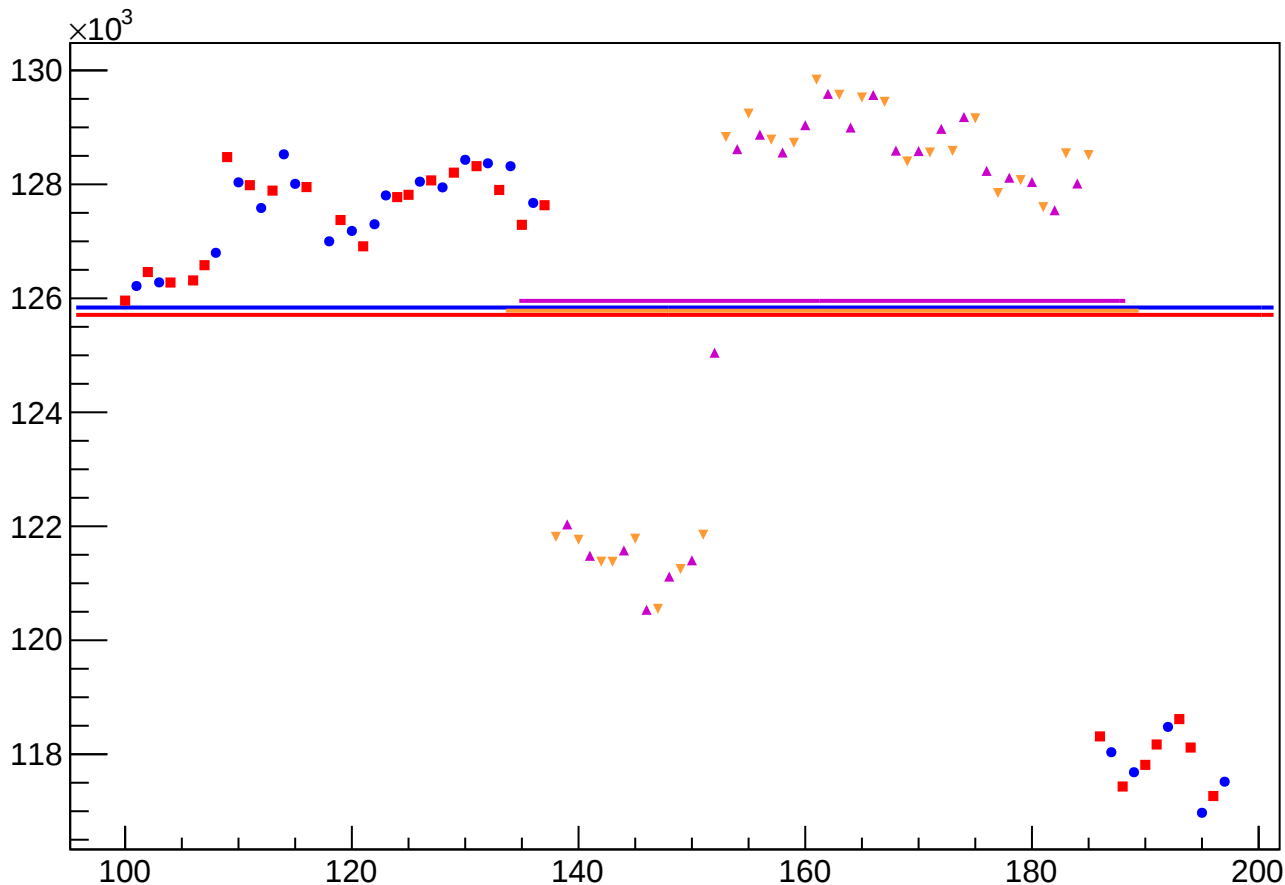
Right: 140.439+/-0.024 χ^2/NDF : 6441140.7/47

In: 168.745+/-0.024 χ^2/NDF : 5011058.7/44

Out: 165.382+/-0.023 χ^2/NDF : 5741030.5/50

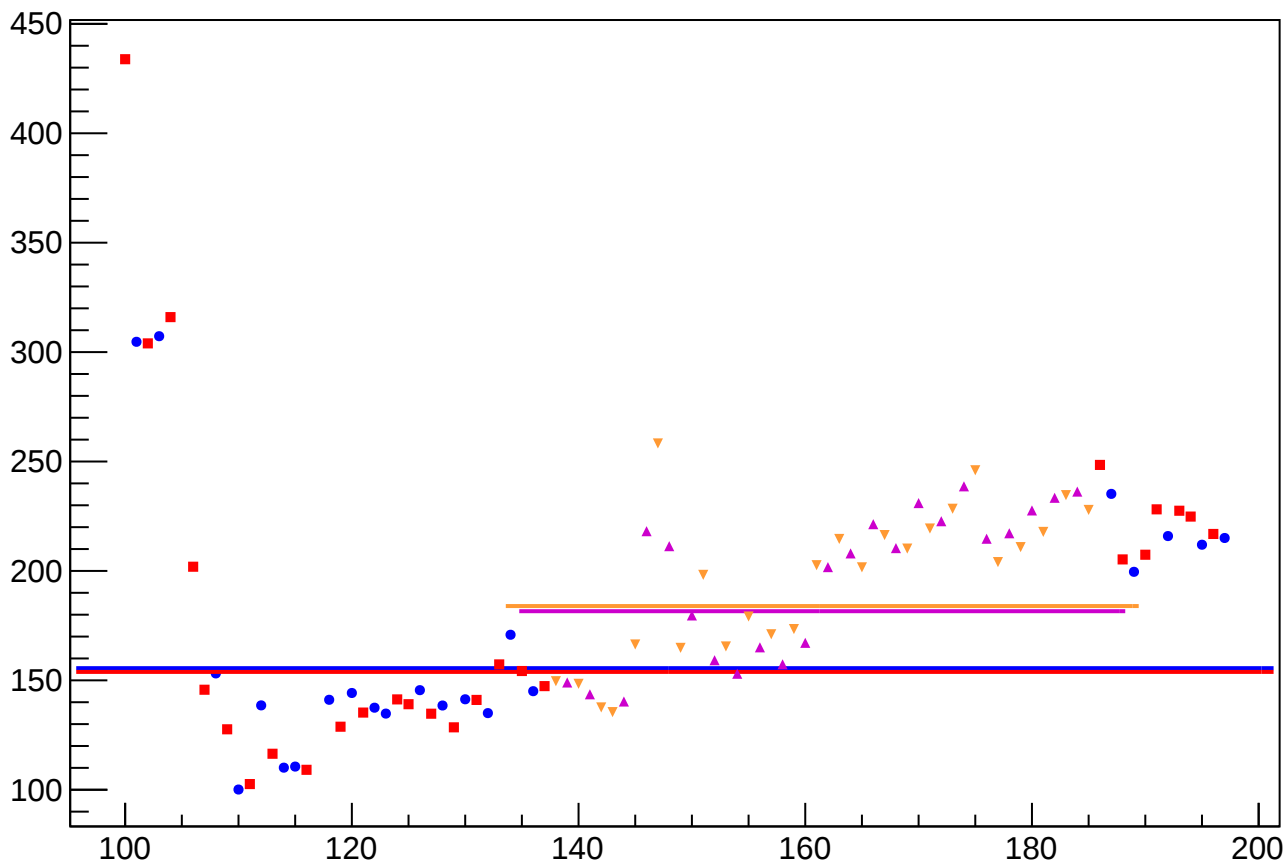
All: 166.955+/-0.017 χ^2/NDF : 10762293.8/95

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 125838.865 $\pm$ 0.052	χ^2 /NDF: 5637518961.1/21	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/21
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 125769.442 $\pm$ 0.036	χ^2 /NDF: 12450603616.1/24
Right Out: 125709.743 $\pm$ 0.049	χ^2 /NDF: 6809829223.6/25	In: 125906.400 $\pm$ 0.034	χ^2 /NDF: 11444471854.7/25
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 125749.915 $\pm$ 0.033	χ^2 /NDF: 13540829944.3/22
		All: 125824.789 $\pm$ 0.024	χ^2 /NDF: 249963011.1/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 155.565 $\pm$ 0.037 χ^2 /NDF: 1382747.3/21

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 153.855 $\pm$ 0.034 χ^2 /NDF: 1910450.7/25

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

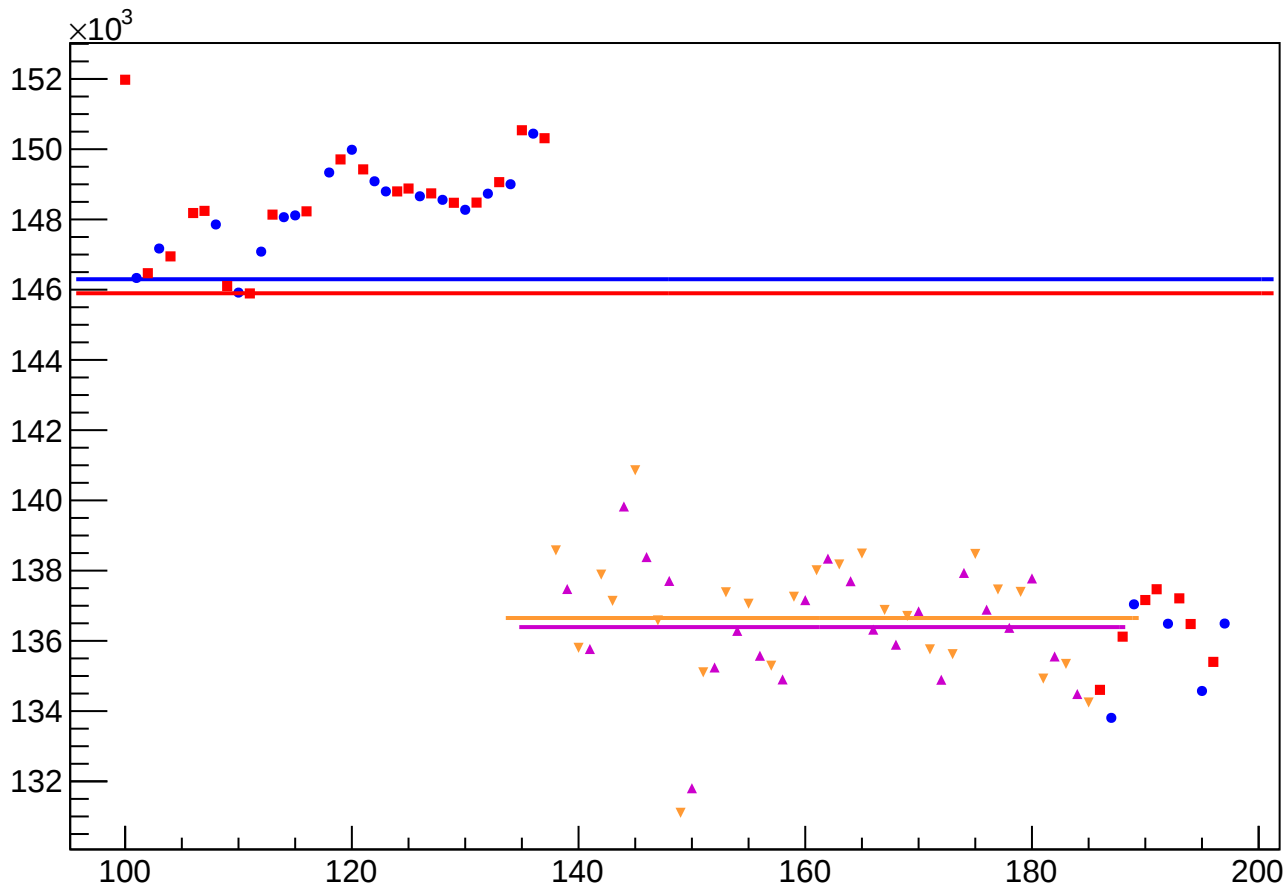
Right: 154.646 $\pm$ 0.025 χ^2 /NDF: 3294339.7/47

In: 170.620 $\pm$ 0.024 χ^2 /NDF: 2770907.0/44

Out: 170.410 $\pm$ 0.023 χ^2 /NDF: 3454393.9/50

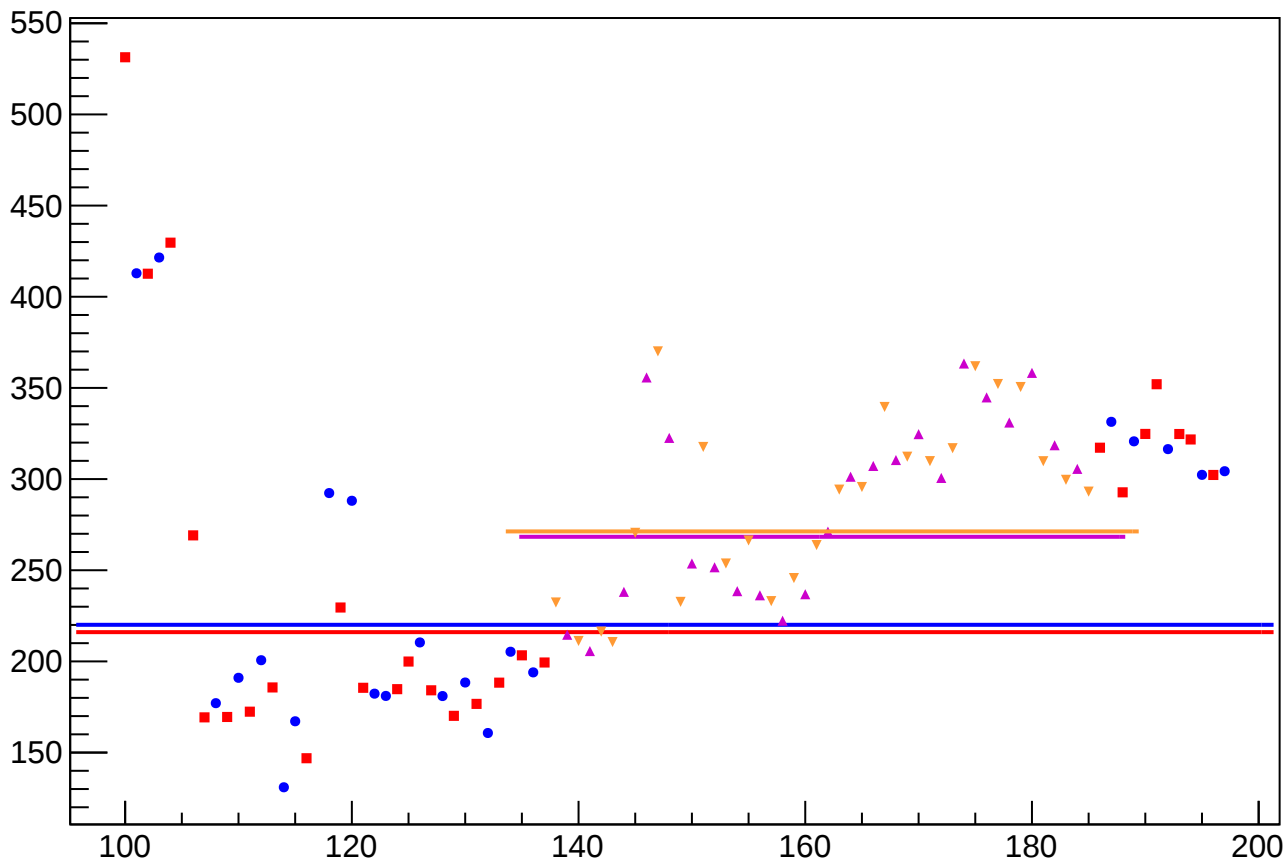
All: 170.510 $\pm$ 0.017 χ^2 /NDF: 6225340.6/95

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 146297.407 $\pm$ 0.075	χ^2 /NDF: 4405693847.8/21	Left: 136524.219 $\pm$ 0.046	χ^2 /NDF: 1640486942.5/4
Left Out: 136650.935 $\pm$ 0.065	χ^2 /NDF: 930649595.5/24	Right: 146080.219 $\pm$ 0.050	χ^2 /NDF: 9695708927.2/4
Right Out: 145897.732 $\pm$ 0.068	χ^2 /NDF: 5274433588.4/25	In: 140736.186 $\pm$ 0.049	χ^2 /NDF: 14995491082.2/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 141011.044 $\pm$ 0.047	χ^2 /NDF: 15858389975.1/4
		All: 140880.591 $\pm$ 0.034	χ^2 /NDF: 308701263

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 220.074 ± 0.053 $\chi^2/\text{NDF}: 1574493.2/21$

Left Out: 271.295 ± 0.046 $\chi^2/\text{NDF}: 1064485.7/24$

Right Out: 216.048 ± 0.048 $\chi^2/\text{NDF}: 1857148.0/25$

Left In: 268.344 ± 0.047 $\chi^2/\text{NDF}: 1077364.0/22$

Left: 269.850 ± 0.033 $\chi^2/\text{NDF}: 2143892.9/47$

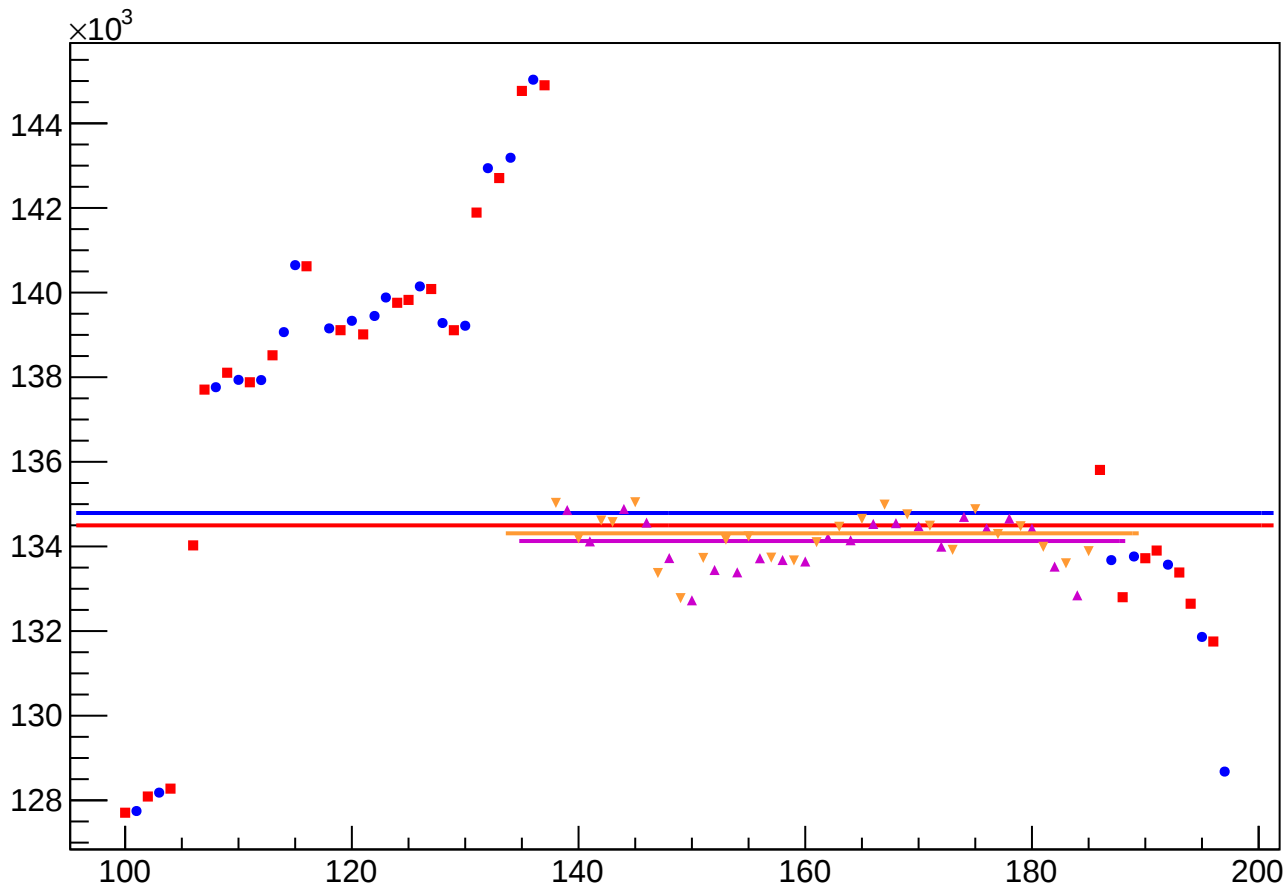
Right: 217.886 ± 0.036 $\chi^2/\text{NDF}: 3434803.6/47$

In: 247.175 ± 0.035 $\chi^2/\text{NDF}: 3121480.8/44$

Out: 245.244 ± 0.033 $\chi^2/\text{NDF}: 3610838.2/50$

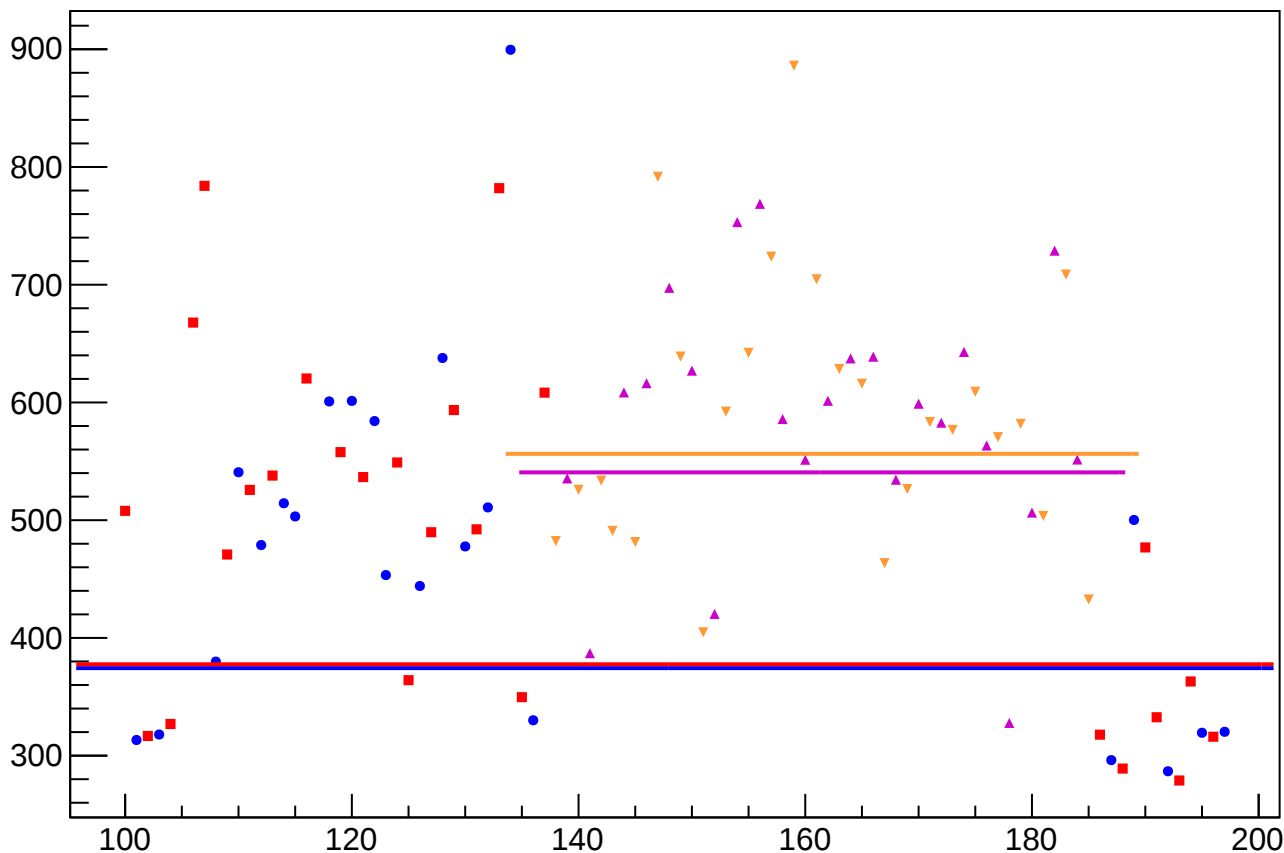
All: 246.161 ± 0.024 $\chi^2/\text{NDF}: 6733921.1/95$

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 134790.400+/-0.134	χ^2/NDF : 1856397199.6/21	Left: 134221.438+/-0.099	χ^2/NDF : 31894688.0/47
Left Out: 134310.250+/-0.139	χ^2/NDF : 15518632.9/24	Right: 134636.928+/-0.093	χ^2/NDF : 3101149518.1
Right Out: 134498.036+/-0.128	χ^2/NDF : 1242263068.9/25	In: 134477.800+/-0.098	χ^2/NDF : 1883415433.9/44
Left In: 134128.172+/-0.142	χ^2/NDF : 15533736.2/22	Out: 134411.771+/-0.094	χ^2/NDF : 1258774745.8/5
		All: 134443.529+/-0.068	χ^2/NDF : 314242795

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 374.357 $\pm$ 0.095 χ^2 /NDF: 1155091.9/21

Left Out: 556.381 $\pm$ 0.098 χ^2 /NDF: 1002064.0/24

Right Out: 377.600 $\pm$ 0.090 χ^2 /NDF: 1540132.5/25

Left In: 540.607 $\pm$ 0.100 χ^2 /NDF: 1409015.2/22

Left: 548.687 $\pm$ 0.070 χ^2 /NDF: 2423723.9/47

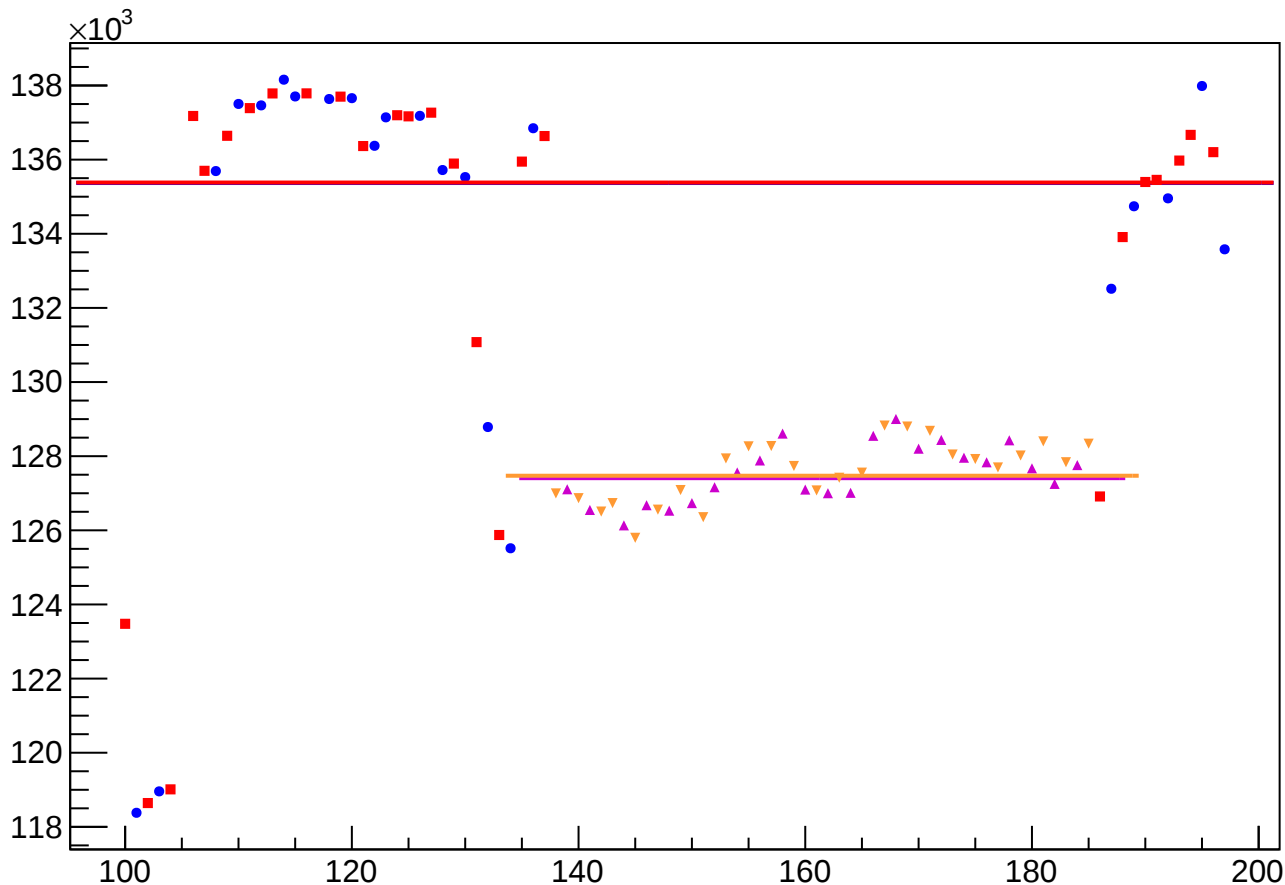
Right: 376.059 $\pm$ 0.065 χ^2 /NDF: 2695837.2/47

In: 452.834 $\pm$ 0.069 χ^2 /NDF: 4011718.0/44

Out: 459.729 $\pm$ 0.066 χ^2 /NDF: 4342365.9/50

All: 456.413 $\pm$ 0.048 χ^2 /NDF: 8359269.2/95

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Left: 127440.757 $\pm$ 0.034 χ^2 /NDF: 574486725.7/47

Right: 135376.205 $\pm$ 0.043 χ^2 /NDF: 9736672941.8/21

In: 130309.910 $\pm$ 0.039 χ^2 /NDF: 14813643271.2/24

Out: 130522.967 $\pm$ 0.037 χ^2 /NDF: 16368714536.8/25

All: 130421.604 $\pm$ 0.027 χ^2 /NDF: 311983695.0/22

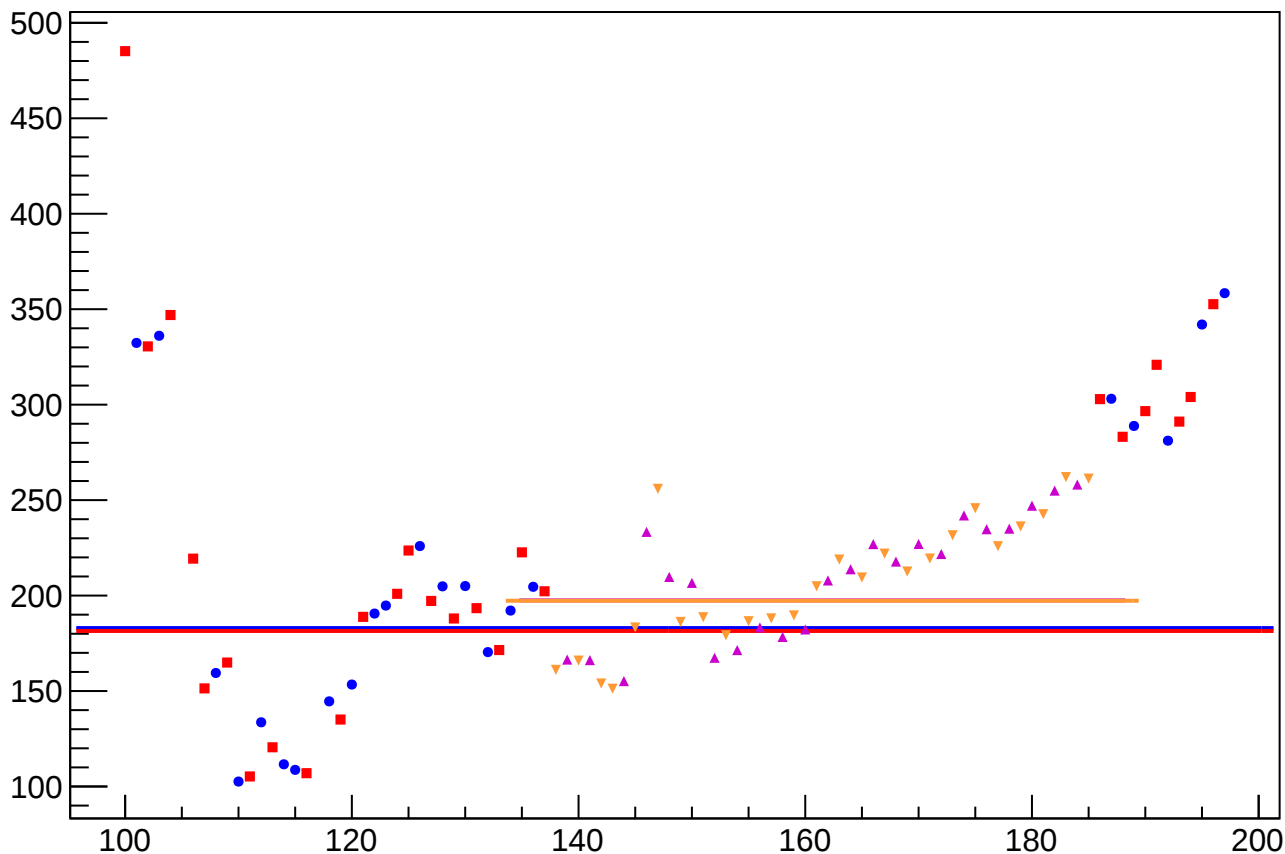
Right In: 135369.281 $\pm$ 0.064 χ^2 /NDF: 4661407538.0/21

Left Out: 127472.525 $\pm$ 0.047 χ^2 /NDF: 303609315.6/24

Right Out: 135382.145 $\pm$ 0.059 χ^2 /NDF: 5075243551.3/25

Left In: 127406.911 $\pm$ 0.048 χ^2 /NDF: 269927988.0/22

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 182.976+/-0.045 χ^2/NDF : 2469031.9/21

Left Out: 197.289+/-0.033 χ^2/NDF : 852024.1/24

Right Out: 181.468+/-0.042 χ^2/NDF : 3001726.1/25

Left In: 197.471+/-0.034 χ^2/NDF : 791577.5/22

Left: 197.377+/-0.024 χ^2/NDF : 1643616.2/47

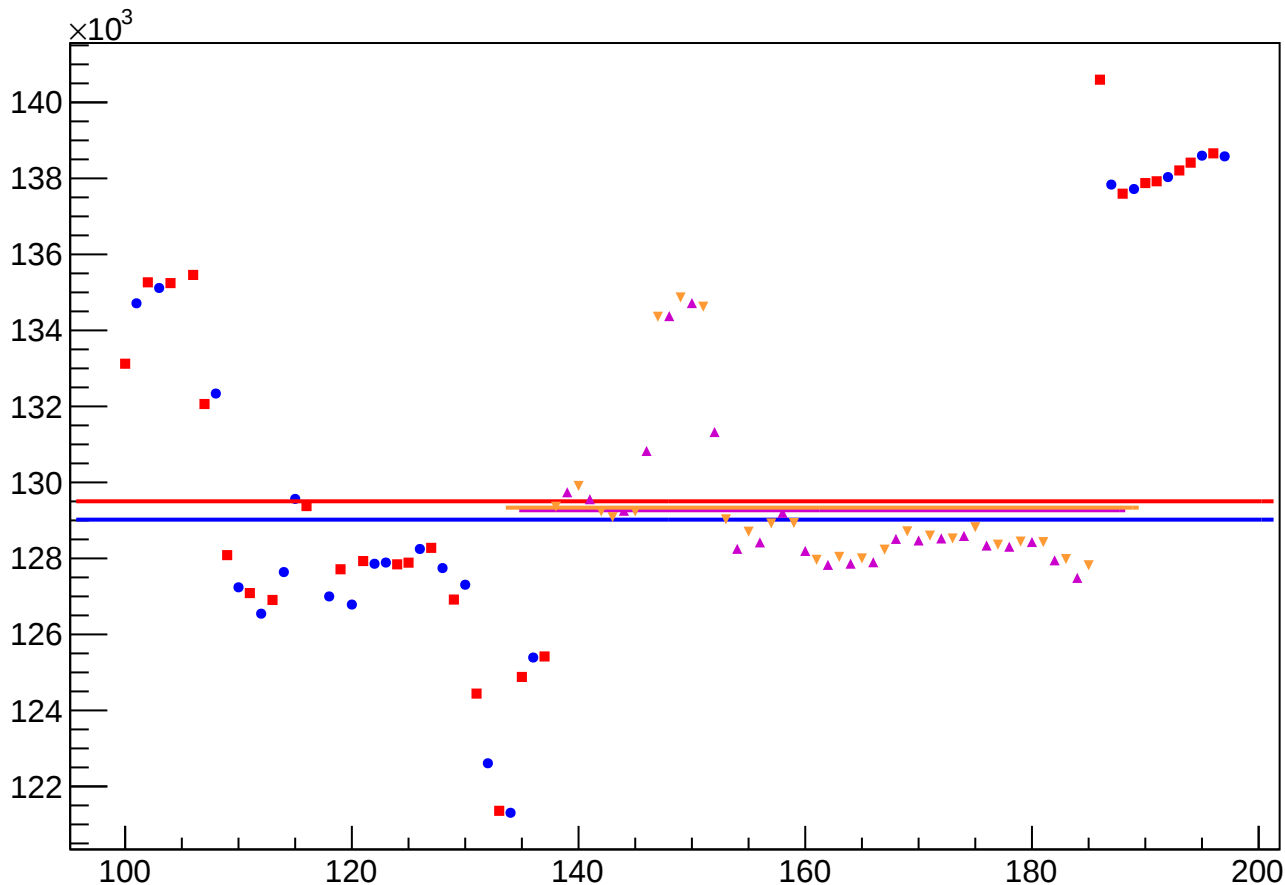
Right: 182.164+/-0.031 χ^2/NDF : 5471358.5/47

In: 192.186+/-0.027 χ^2/NDF : 3326108.3/44

Out: 191.188+/-0.026 χ^2/NDF : 3941690.0/50

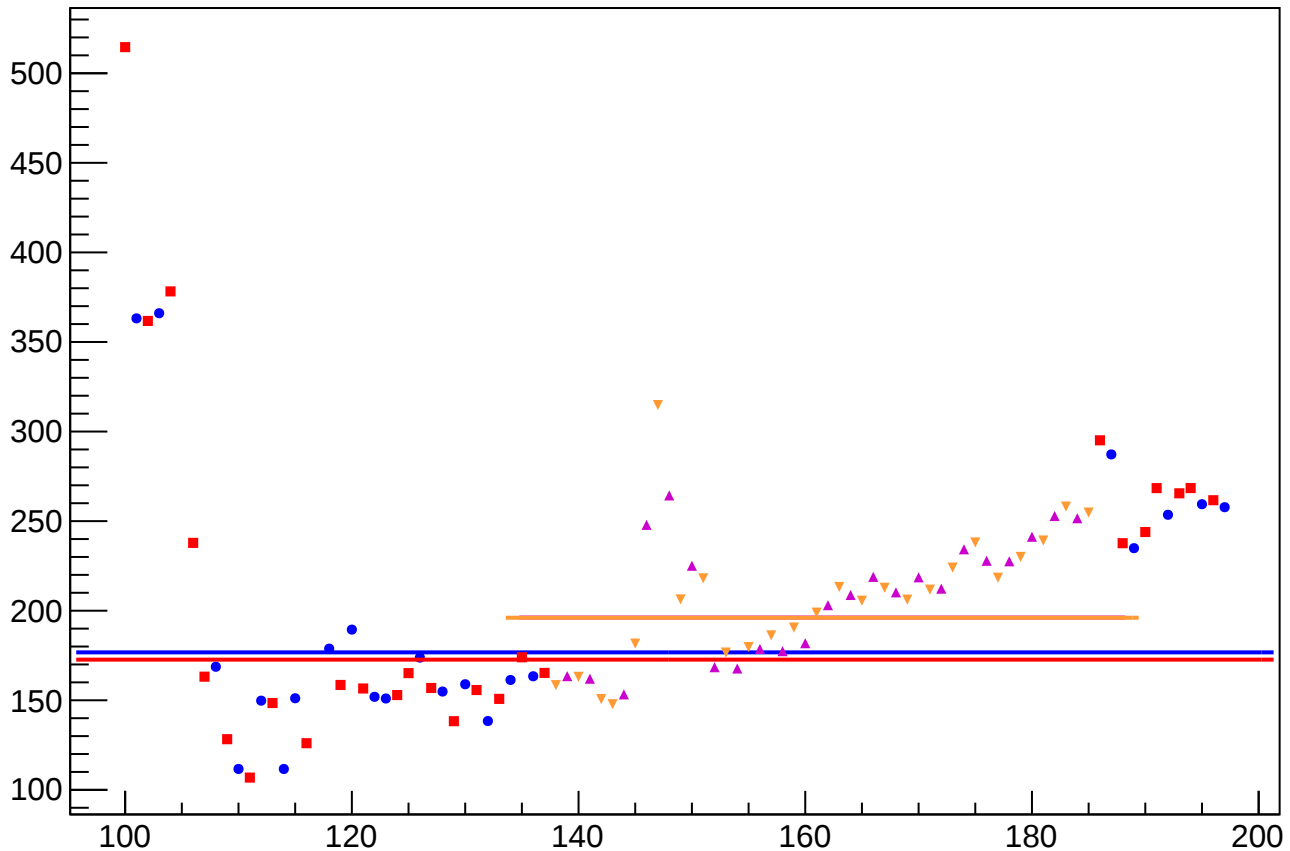
All: 191.663+/-0.019 χ^2/NDF : 7268501.9/95

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 129020.004 $\pm$ 0.060	χ^2 /NDF: 6602364454.8/21	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/4
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 129282.380 $\pm$ 0.041	χ^2 /NDF: 14683039168.8
Right Out: 129503.026 $\pm$ 0.055	χ^2 /NDF: 8045945224.5/25	In: 129170.974 $\pm$ 0.038	χ^2 /NDF: 7826341996.8/4
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129405.404 $\pm$ 0.036	χ^2 /NDF: 9502193876.7/5
		All: 129294.374 $\pm$ 0.026	χ^2 /NDF: 17348938

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 176.745 $\pm$ 0.043 χ^2 /NDF: 1636417.5/21

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 172.692 $\pm$ 0.039 χ^2 /NDF: 2251069.8/25

Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

Left: 196.130 $\pm$ 0.024 χ^2 /NDF: 1873774.2/47

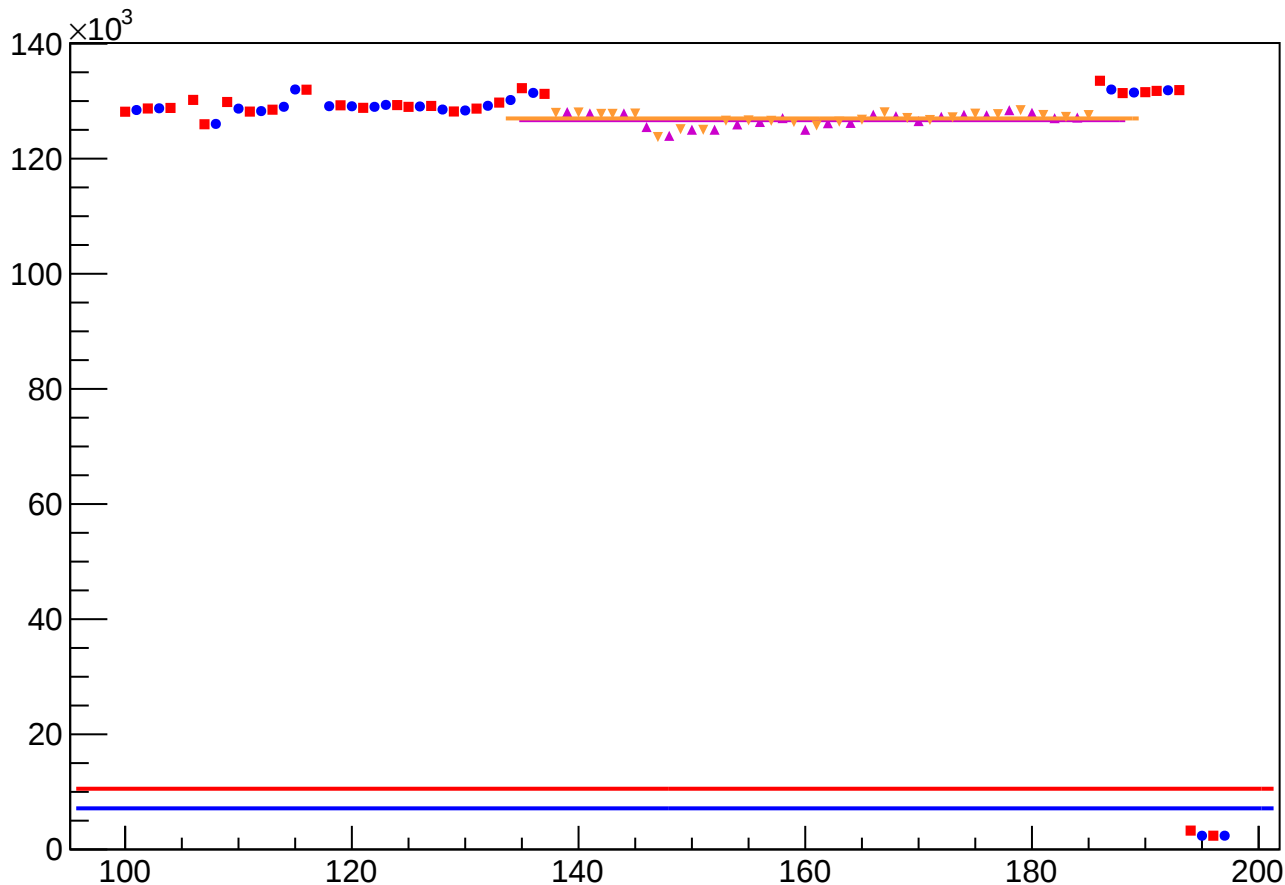
Right: 174.543 $\pm$ 0.029 χ^2 /NDF: 3892379.4/47

In: 188.632 $\pm$ 0.027 χ^2 /NDF: 2661130.8/44

Out: 186.356 $\pm$ 0.025 χ^2 /NDF: 3435032.5/50

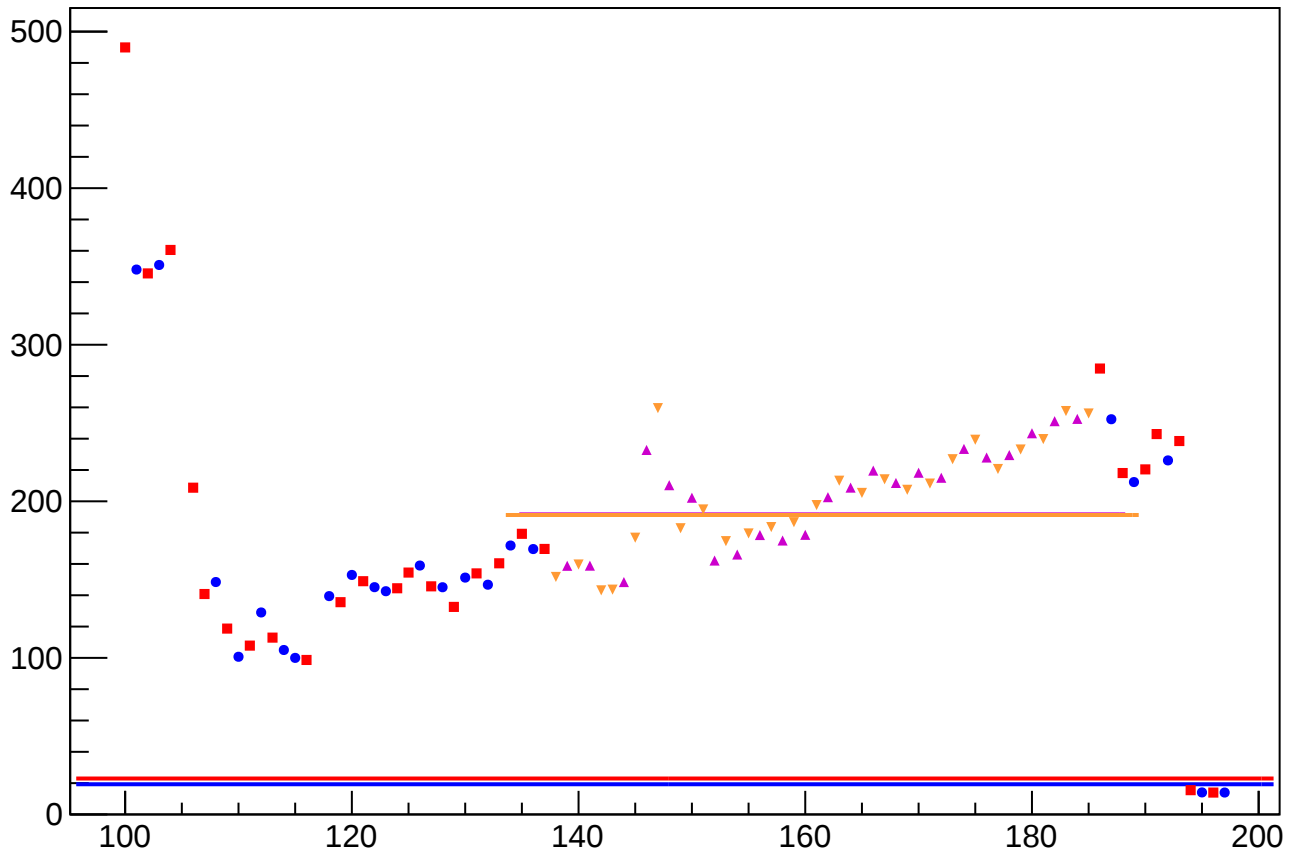
All: 187.434 $\pm$ 0.018 χ^2 /NDF: 6100012.6/95

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 7140.778 $\pm$ 0.011	χ^2 /NDF: 4747147281849.2/21	Left: 126836.943 $\pm$ 0.033	χ^2 /NDF: 1211882944.2/4
Left Out: 126981.724 $\pm$ 0.046	χ^2 /NDF: 530573115.8/24	Right: 8559.661 $\pm$ 0.008	χ^2 /NDF: 10287206820163
Right Out: 10547.433 $\pm$ 0.013	χ^2 /NDF: 5500568456509.4/25	In: 13418.549 $\pm$ 0.011	χ^2 /NDF: 10879069766957.1
Left In: 126682.659 $\pm$ 0.047	χ^2 /NDF: 660415880.0/22	Out: 19445.501 $\pm$ 0.013	χ^2 /NDF: 11543105884154
		All: 15966.304 $\pm$ 0.008	χ^2 /NDF: 2255458159

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 19.285+/-0.008 χ^2/NDF : 12957193.2/21

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 22.957+/-0.009 χ^2/NDF : 14833700.0/25

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

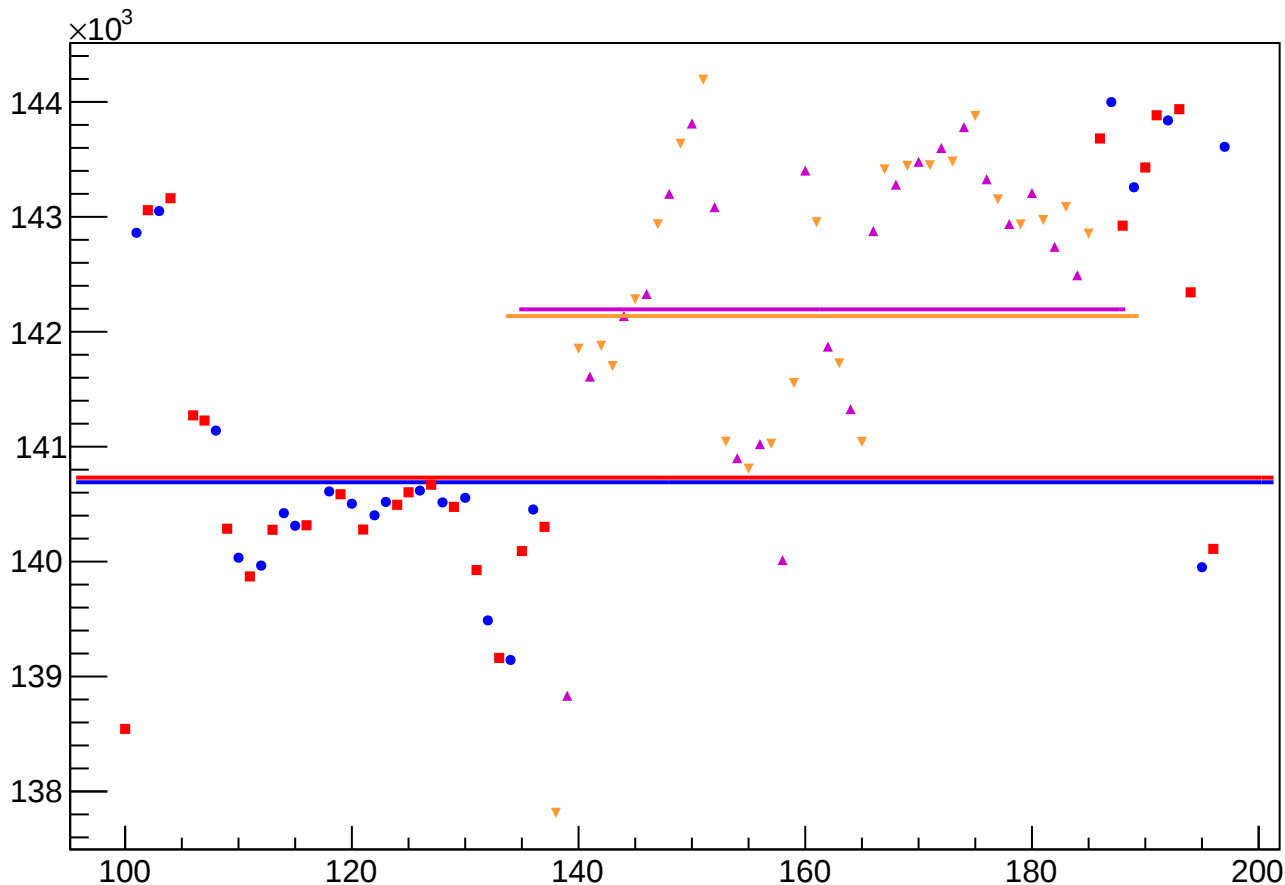
Right: 20.814+/-0.006 χ^2/NDF : 27882639.6/47

In: 28.339+/-0.008 χ^2/NDF : 39325132.0/44

Out: 35.819+/-0.009 χ^2/NDF : 41075582.7/50

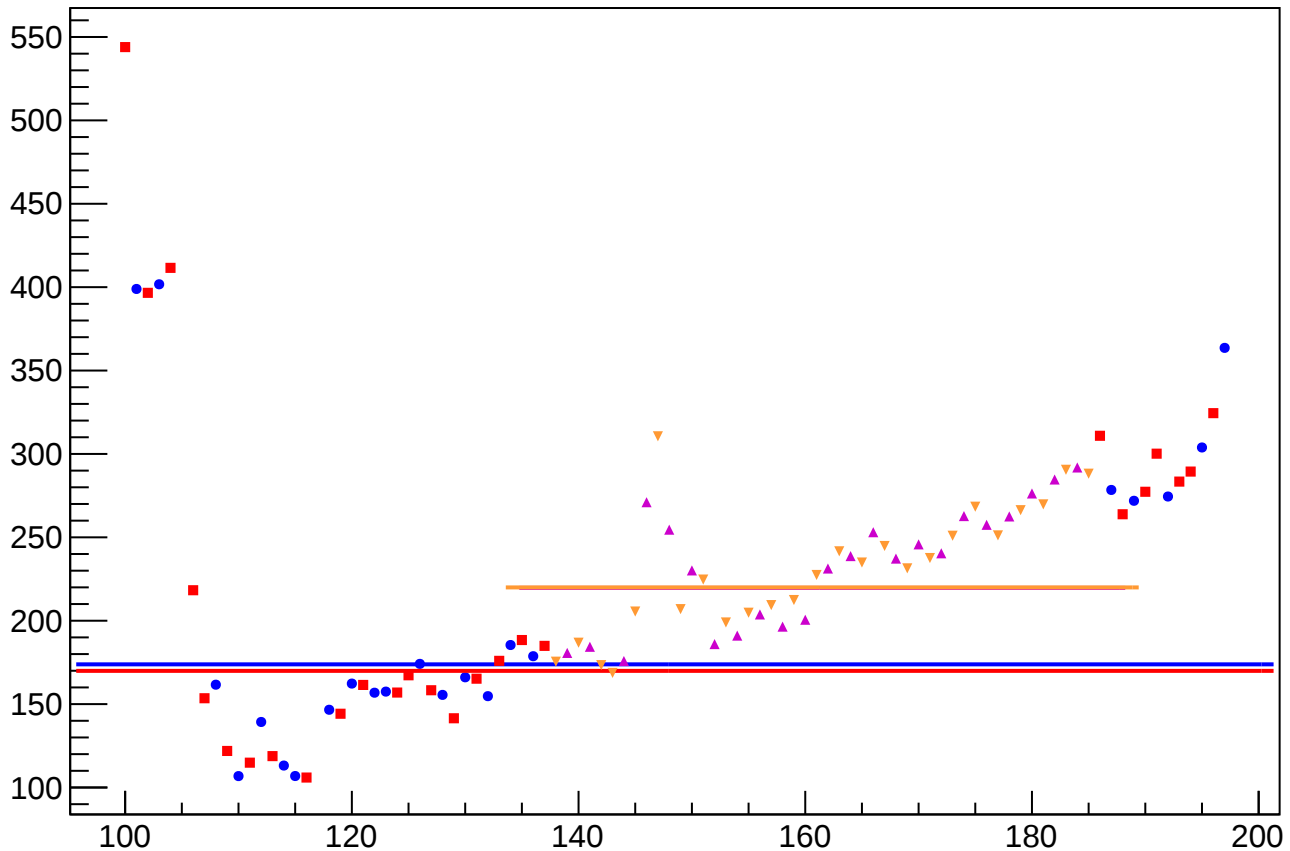
All: 31.501+/-0.006 χ^2/NDF : 80808642.4/95

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140690.414 $\pm$ 0.060	χ^2 /NDF: 340420142.0/21	Left: 142164.953 $\pm$ 0.038	χ^2 /NDF: 1460209902.9/4
Left Out: 142136.579 $\pm$ 0.052	χ^2 /NDF: 815573343.0/24	Right: 140712.365 $\pm$ 0.041	χ^2 /NDF: 749857098.4/4
Right Out: 140730.748 $\pm$ 0.055	χ^2 /NDF: 409193271.5/25	In: 141527.003 $\pm$ 0.040	χ^2 /NDF: 1330899254.0/4
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141470.717 $\pm$ 0.038	χ^2 /NDF: 1566661872.5/5
		All: 141497.276 $\pm$ 0.028	χ^2 /NDF: 289859842

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 173.843+/-0.043 χ^2/NDF : 2391910.8/21

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 169.933+/-0.039 χ^2/NDF : 2987946.9/25

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

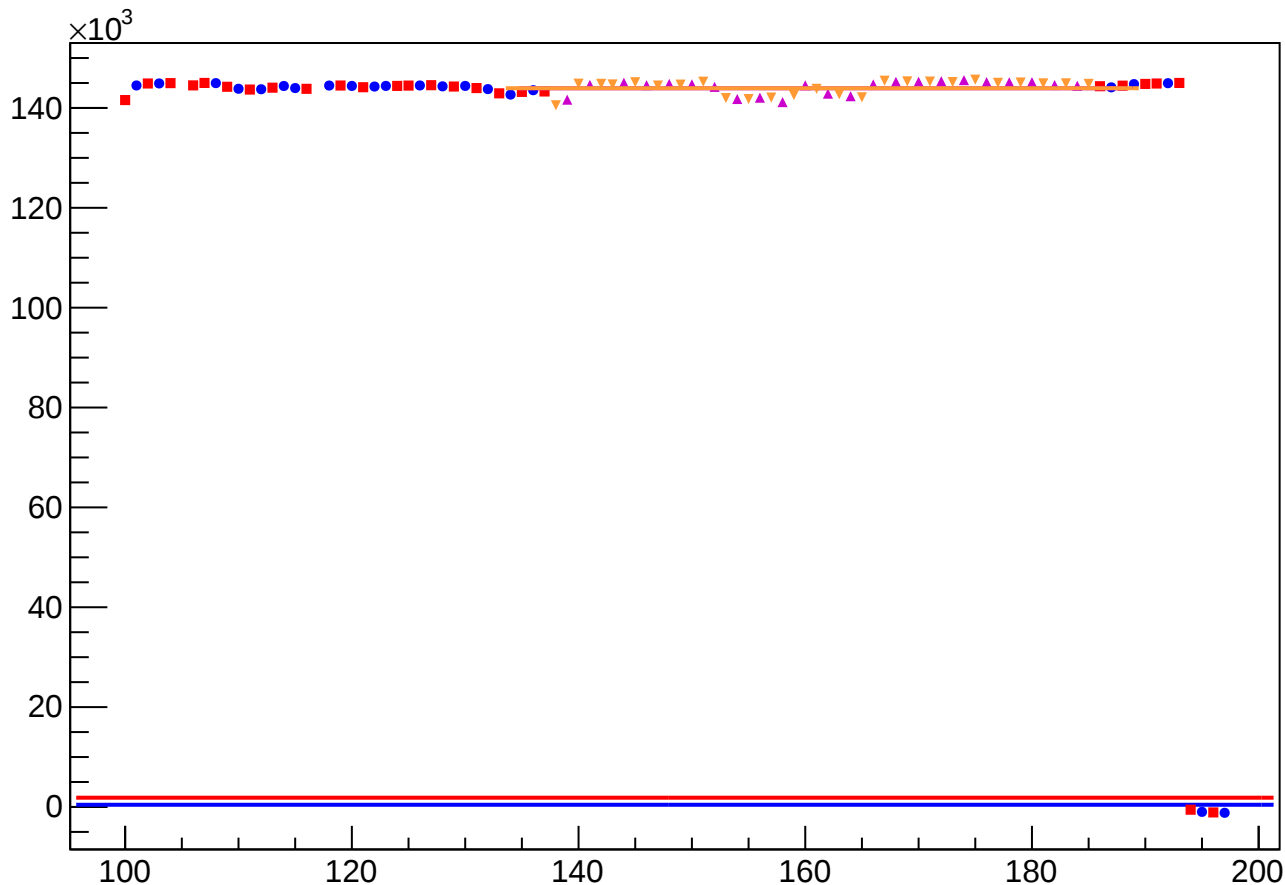
Right: 171.715+/-0.029 χ^2/NDF : 5384438.5/47

In: 199.332+/-0.028 χ^2/NDF : 3847839.0/44

Out: 196.270+/-0.027 χ^2/NDF : 4720773.8/50

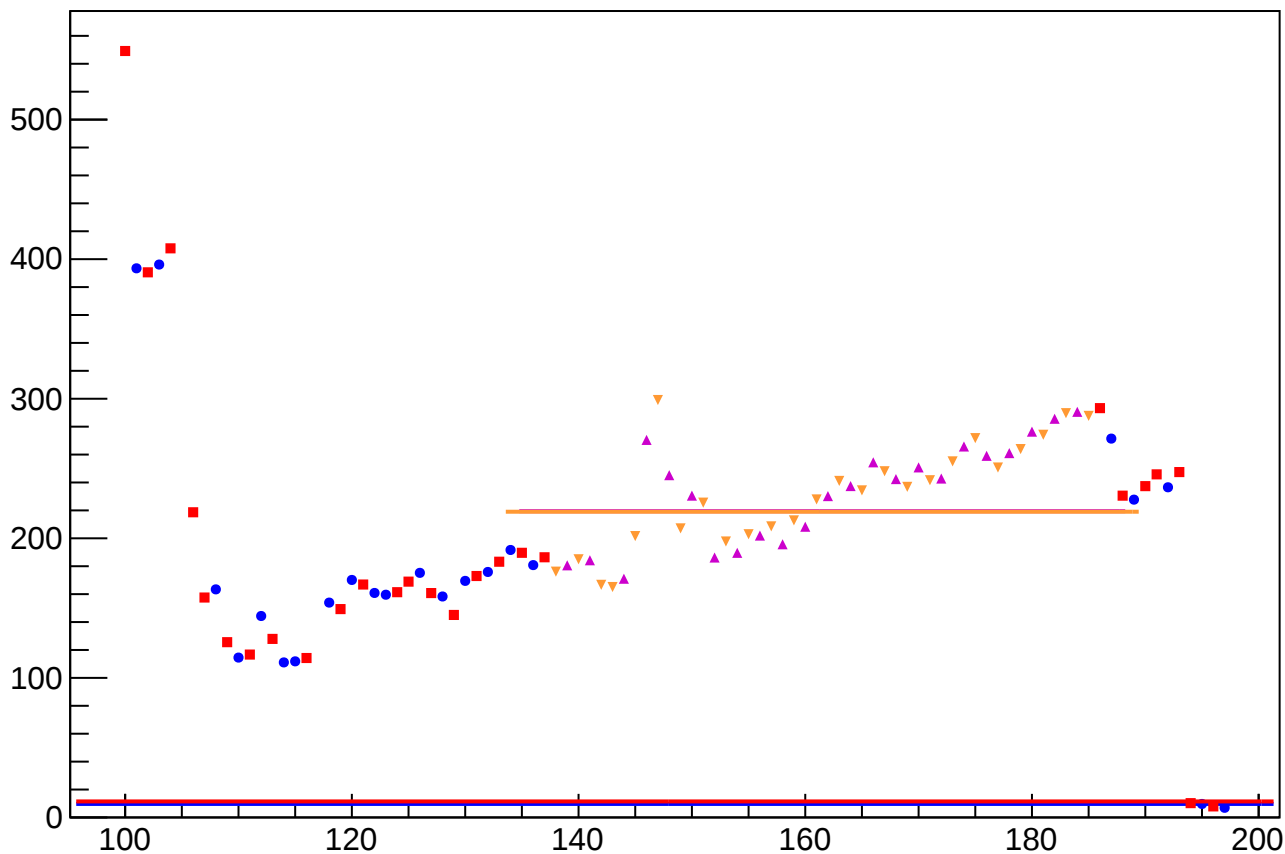
All: 197.715+/-0.020 χ^2/NDF : 8574752.5/95

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 438.940 $\pm$ 0.006 χ^2 /NDF: 5245040575259.5/21
 Left Out: 143951.284 $\pm$ 0.052 χ^2 /NDF: 864679545.2/24
 Right Out: 1854.648 $\pm$ 0.008 χ^2 /NDF: 627472406663.9/25
 Left In: 143938.288 $\pm$ 0.054 χ^2 /NDF: 719814685.6/22
 Left: 143944.995 $\pm$ 0.037 χ^2 /NDF: 1584524299.4/21
 Right: 998.828 $\pm$ 0.005 χ^2 /NDF: 11538570557094.1
 In: 2495.455 $\pm$ 0.006 χ^2 /NDF: 12247427477998.1
 Out: 5144.690 $\pm$ 0.008 χ^2 /NDF: 13532032987770.1
 All: 3548.882 $\pm$ 0.005 χ^2 /NDF: 25846636384.1

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 9.692 $\pm$ 0.005 χ^2 /NDF: 14572626.3/21

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF: 934417.6/24

Right Out: 11.487 $\pm$ 0.006 χ^2 /NDF: 16830292.4/25

Left In: 219.426 $\pm$ 0.038 χ^2 /NDF: 850089.5/22

Left: 219.232 $\pm$ 0.026 χ^2 /NDF: 1784557.4/47

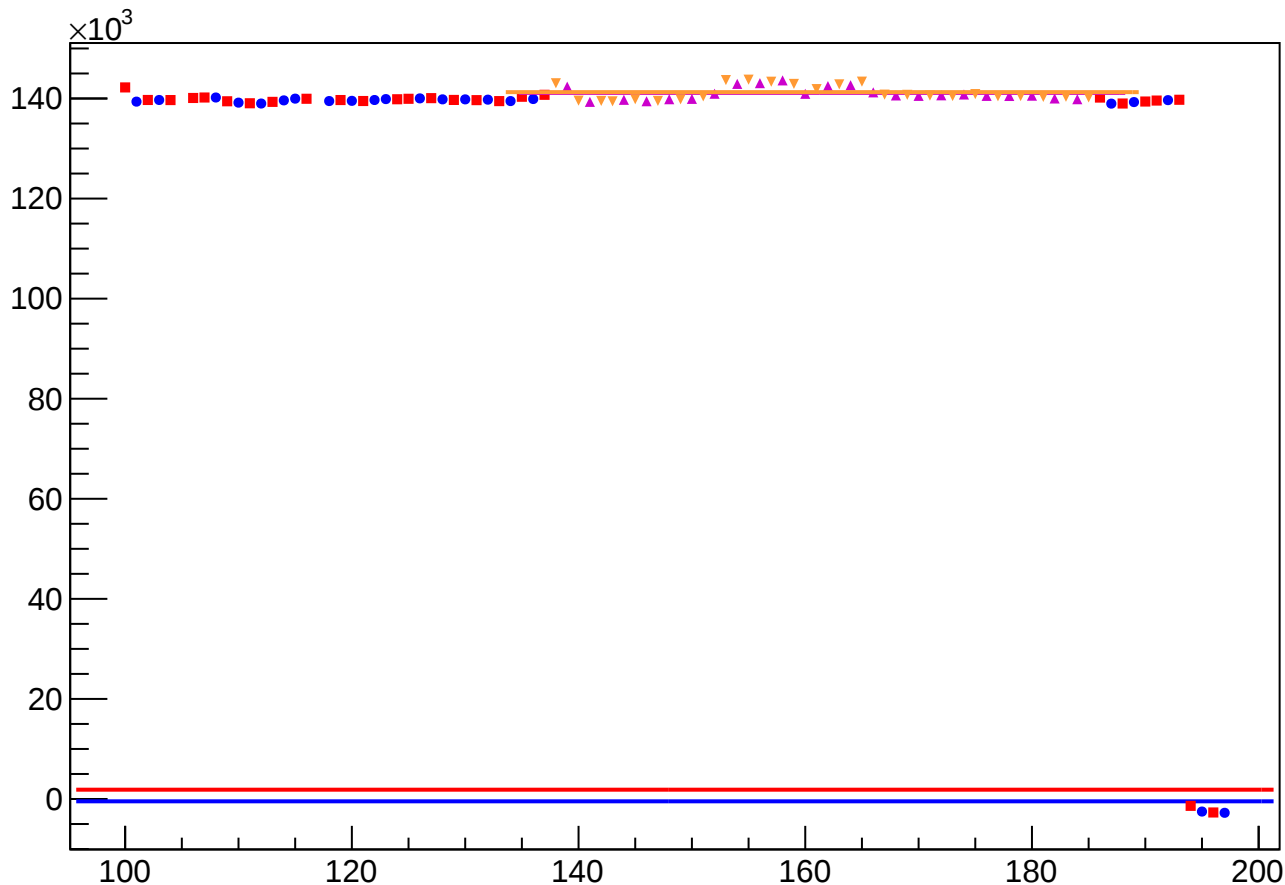
Right: 10.402 $\pm$ 0.004 χ^2 /NDF: 31463340.3/47

In: 12.698 $\pm$ 0.005 χ^2 /NDF: 45336170.7/44

Out: 16.293 $\pm$ 0.006 χ^2 /NDF: 48730763.3/50

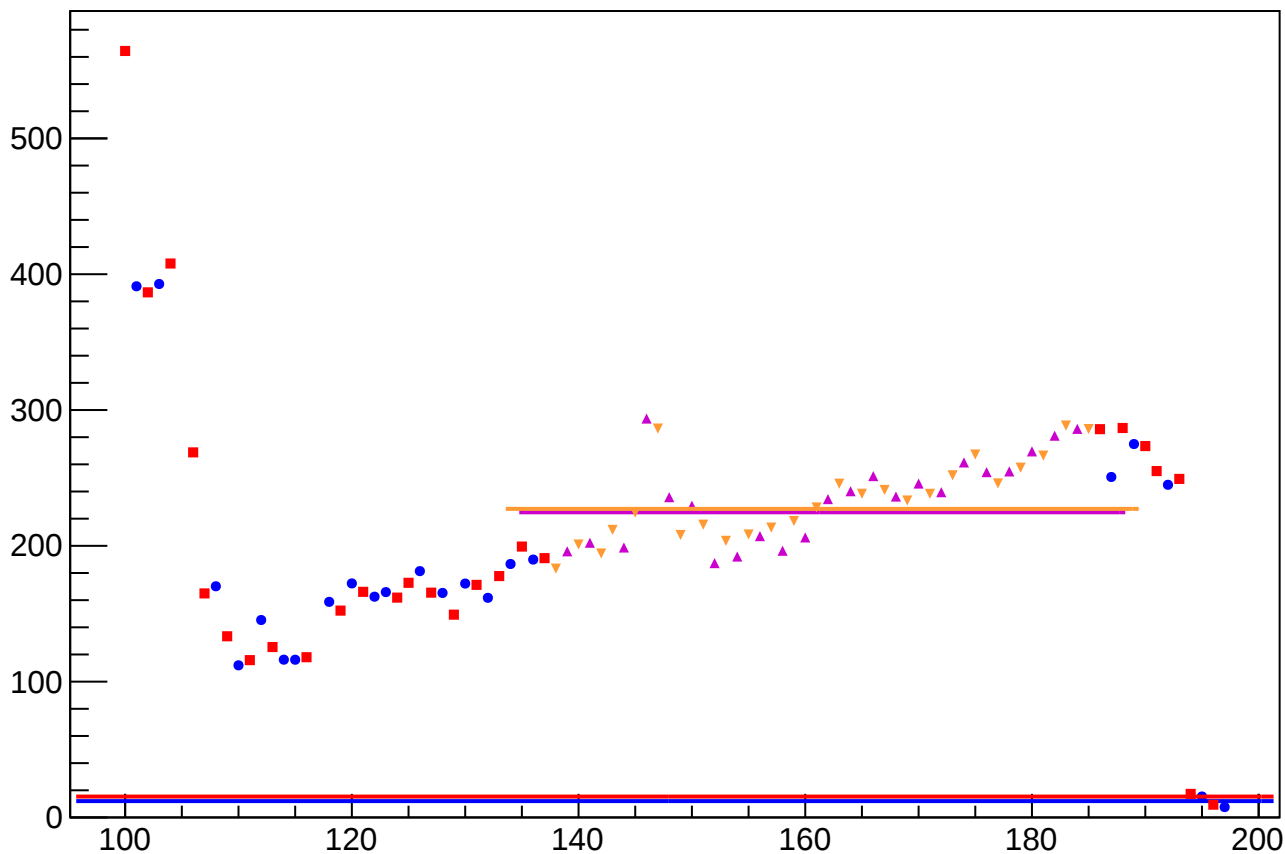
All: 14.127 $\pm$ 0.004 χ^2 /NDF: 94314257.9/95

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -464.937 $\pm$ 0.008	χ^2 /NDF: 4795616762760.6/21	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/24
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: 412.626 $\pm$ 0.006	χ^2 /NDF: 10435628659991.1/24
Right Out: 1860.040 $\pm$ 0.010	χ^2 /NDF: 5608767357259.5/25	In: 2535.971 $\pm$ 0.008	χ^2 /NDF: 11302651694924.9/25
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: 6879.642 $\pm$ 0.010	χ^2 /NDF: 12106702904497.1/25
		All: 4191.082 $\pm$ 0.006	χ^2 /NDF: 23521832051.1/25

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 12.037 $\pm$ 0.006 χ^2 /NDF: 14507638.5/21

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF: 484955.3/24

Right Out: 15.377 $\pm$ 0.007 χ^2 /NDF: 16413102.3/25

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

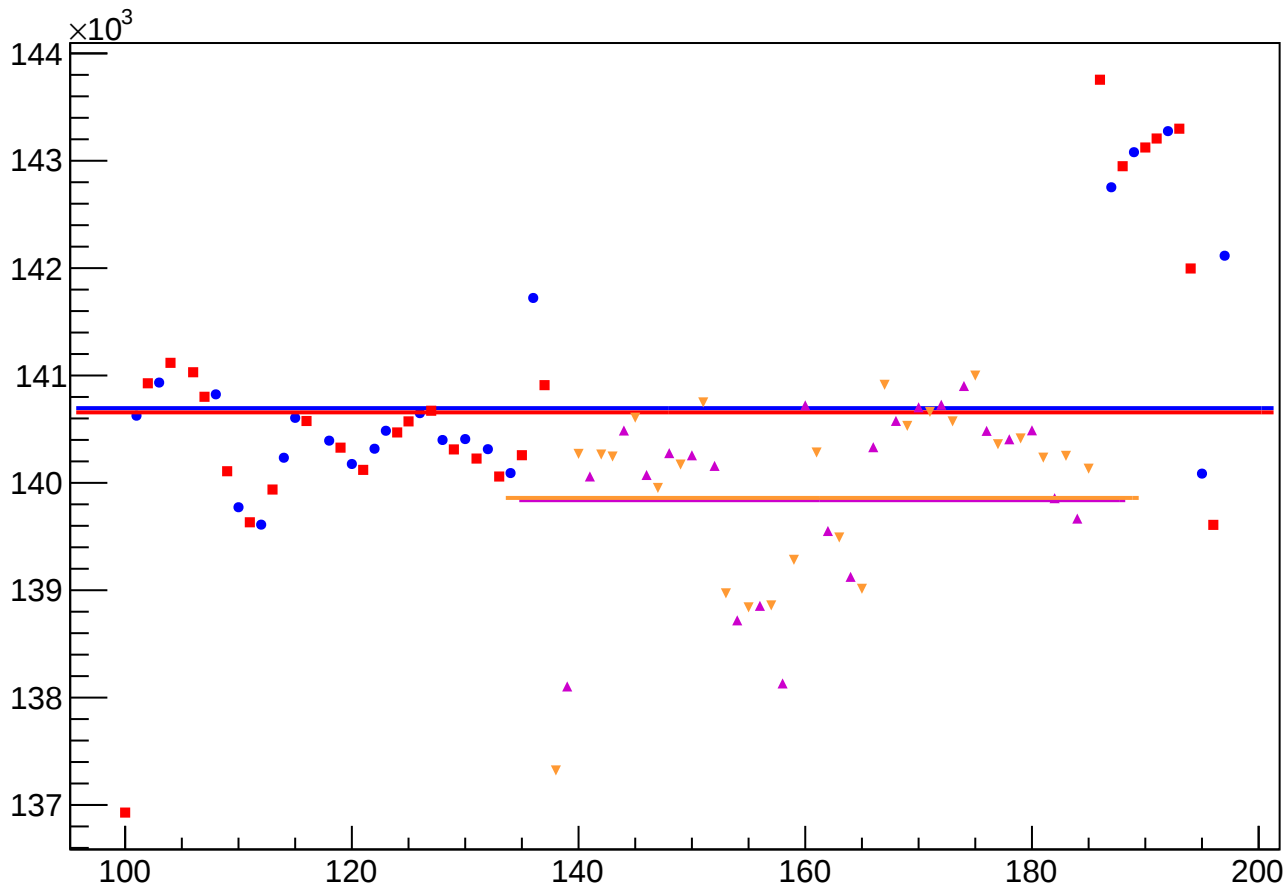
Right: 13.298 $\pm$ 0.005 χ^2 /NDF: 31049689.6/47

In: 16.544 $\pm$ 0.006 χ^2 /NDF: 44440376.1/44

Out: 23.005 $\pm$ 0.007 χ^2 /NDF: 46904717.3/50

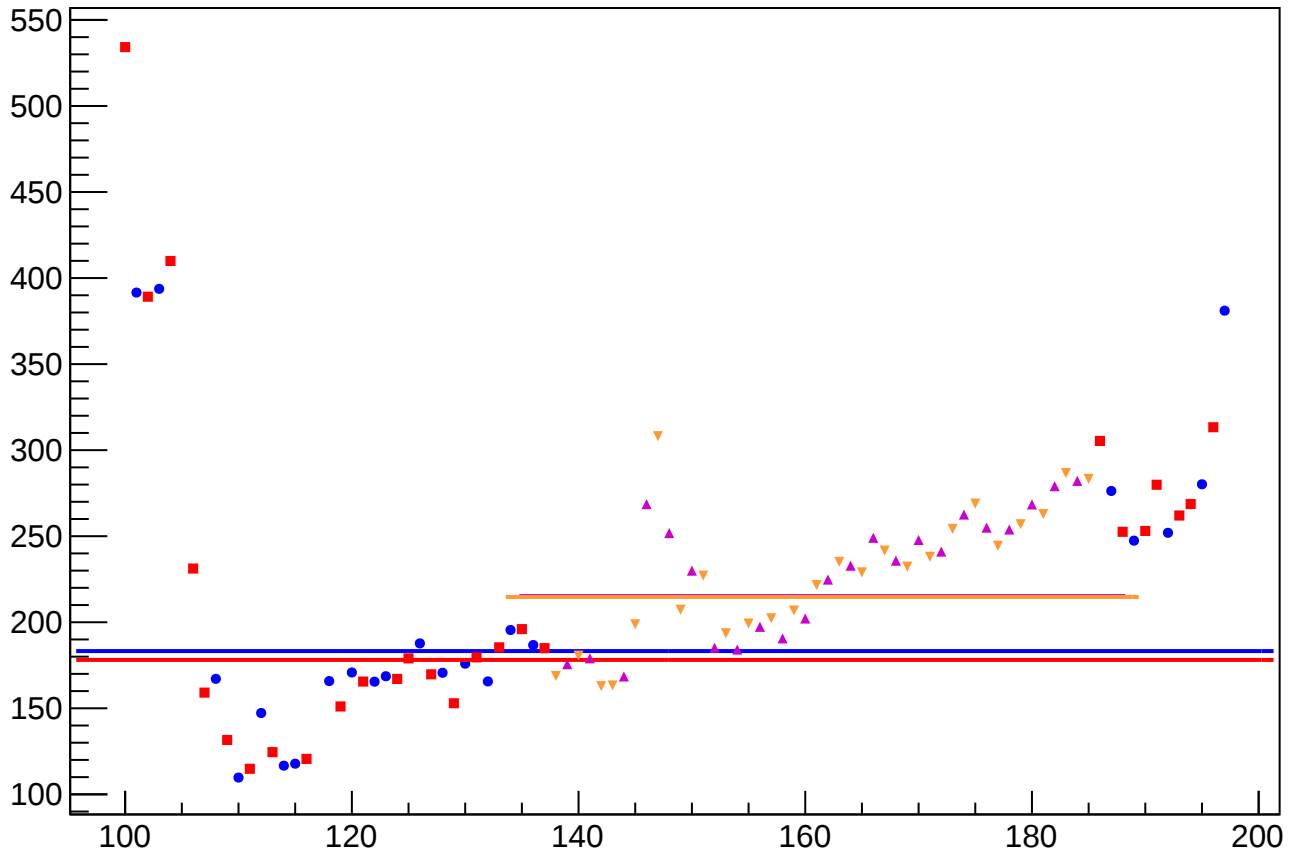
All: 19.006 $\pm$ 0.004 χ^2 /NDF: 91842738.2/95

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140696.009 $\pm$ 0.063	χ^2/NDF : 247434173.5/21	Left: 139849.553 $\pm$ 0.037	χ^2/NDF : 609773442.9/47
Left Out: 139859.696 $\pm$ 0.051	χ^2/NDF : 330118281.5/24	Right: 140674.362 $\pm$ 0.042	χ^2/NDF : 590892508.2/47
Right Out: 140656.543 $\pm$ 0.057	χ^2/NDF : 343242808.4/25	In: 140192.688 $\pm$ 0.040	χ^2/NDF : 635860455.9/44
Left In: 139838.724 $\pm$ 0.053	χ^2/NDF : 279573689.3/22	Out: 140213.898 $\pm$ 0.038	χ^2/NDF : 781463487.8/50
		All: 140203.933 $\pm$ 0.028	χ^2/NDF : 141746967.8/141

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 183.254 $\pm$ 0.045 χ^2/NDF : 1999461.6/21

Left Out: 214.693 $\pm$ 0.036 χ^2/NDF : 981105.5/24

Right Out: 178.113 $\pm$ 0.040 χ^2/NDF : 2467567.3/25

Left In: 215.222 $\pm$ 0.037 χ^2/NDF : 881945.0/22

Left: 214.949 $\pm$ 0.026 χ^2/NDF : 1863154.2/47

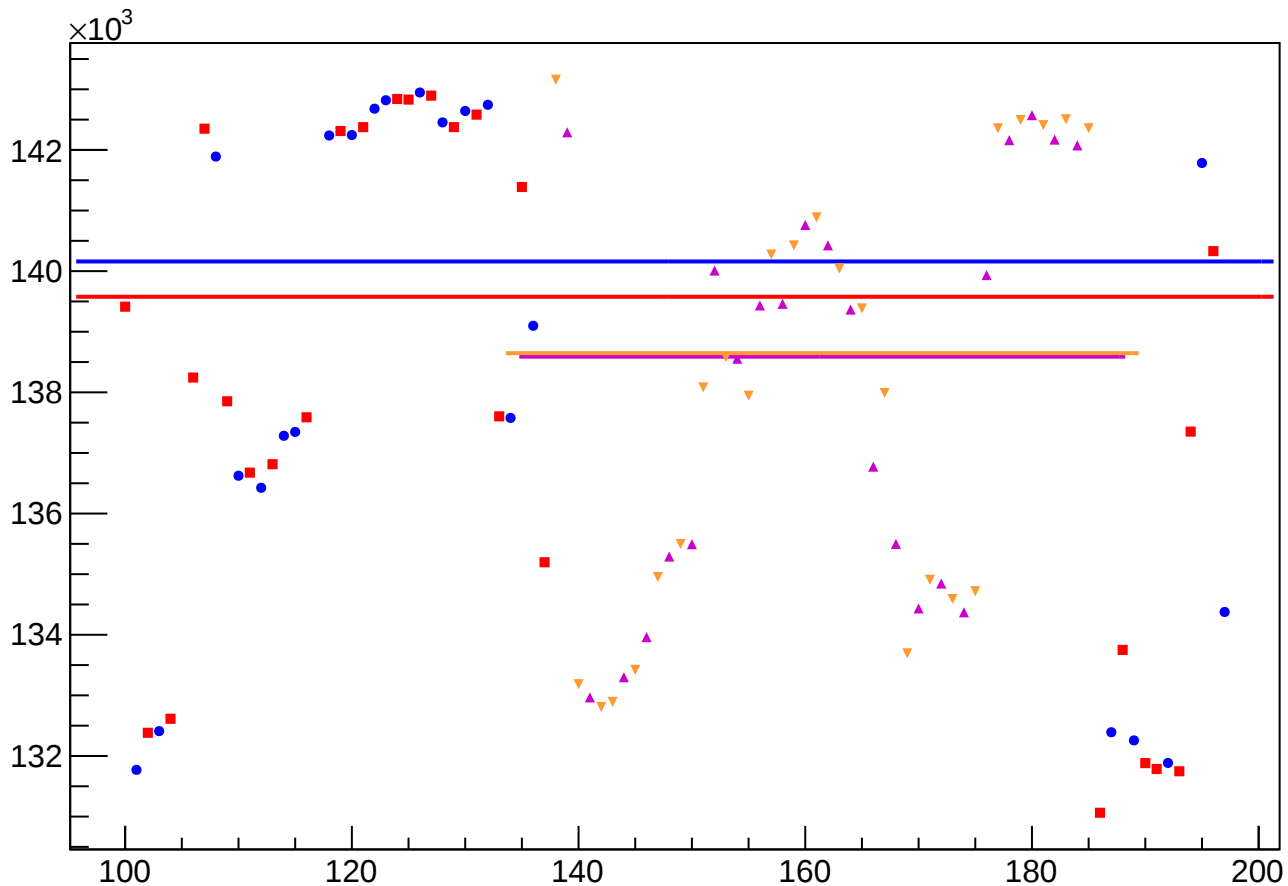
Right: 180.434 $\pm$ 0.030 χ^2/NDF : 4474344.6/47

In: 202.023 $\pm$ 0.029 χ^2/NDF : 3184124.1/44

Out: 198.433 $\pm$ 0.027 χ^2/NDF : 3904292.4/50

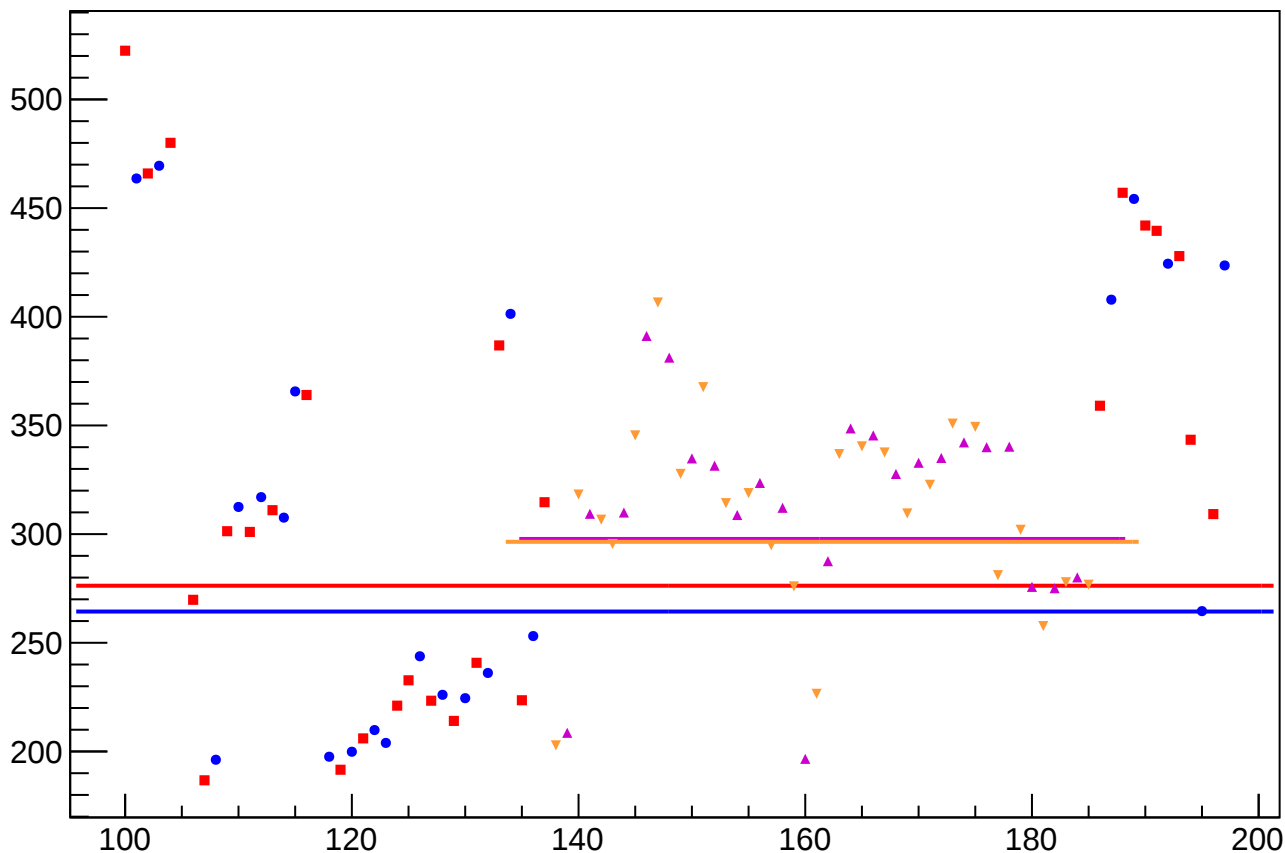
All: 200.119 $\pm$ 0.020 χ^2/NDF : 7096766.1/95

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140159.701+/-0.090	χ^2/NDF : 1552984148.8/21	Left: 138618.660+/-0.051	χ^2/NDF : 4497021019.3/4
Left Out: 138646.366+/-0.071	χ^2/NDF : 2548637600.4/24	Right: 139860.497+/-0.063	χ^2/NDF : 3343671020.0/4
Right Out: 139577.136+/-0.088	χ^2/NDF : 1769242906.6/25	In: 139217.607+/-0.057	χ^2/NDF : 3683128530.7/4
Left In: 138588.711+/-0.074	χ^2/NDF : 1948065195.1/22	Out: 139013.744+/-0.055	χ^2/NDF : 4386000043.5/5
		All: 139112.184+/-0.040	χ^2/NDF : 807573340.0/4

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 264.380 $\pm$ 0.064 χ^2 /NDF: 1576648.4/21

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF:893579.7/24

Right Out: 276.257 $\pm$ 0.062 χ^2 /NDF: 1893330.7/25

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF:1061489.5/22

Left: 297.094 $\pm$ 0.036 χ^2 /NDF: 1955397.8/47

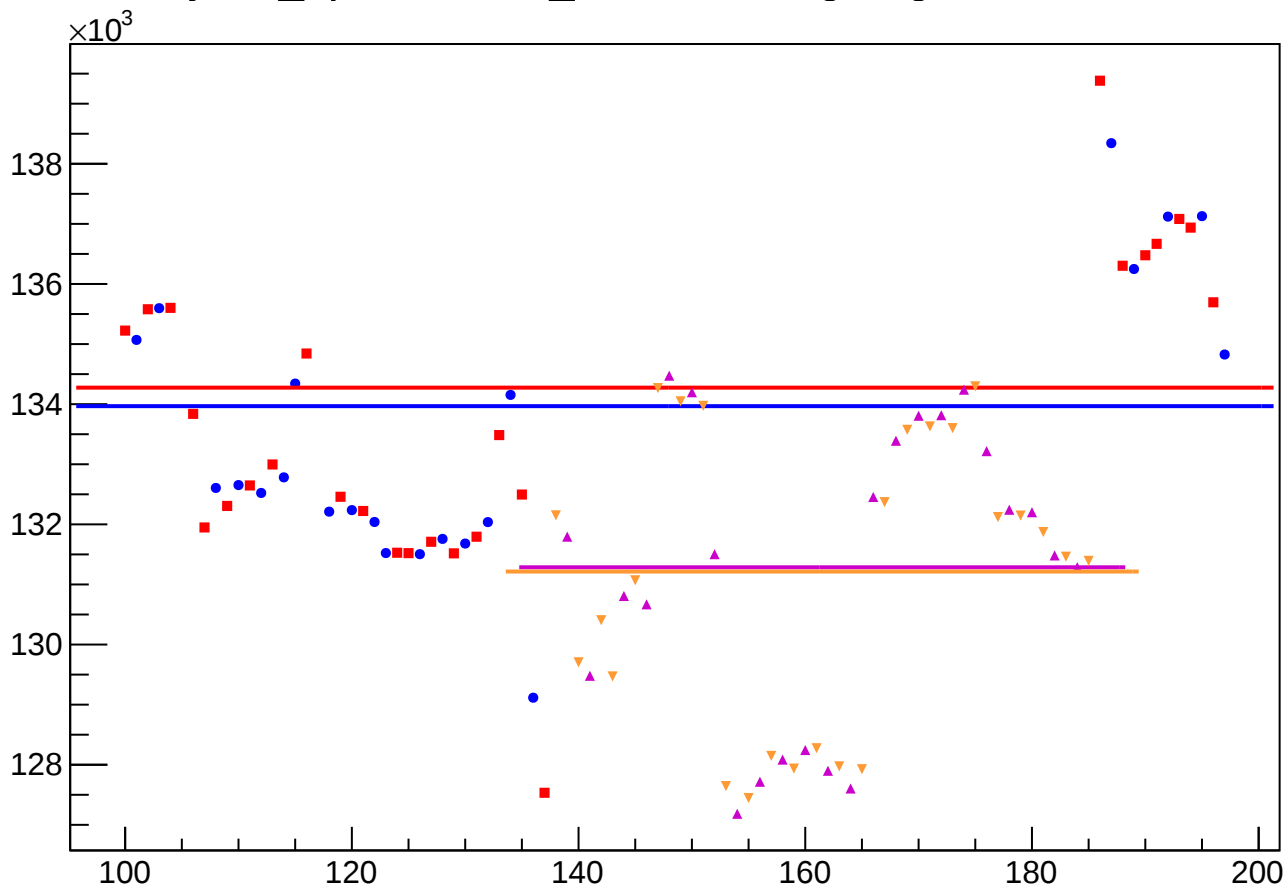
Right: 270.480 $\pm$ 0.044 χ^2 /NDF: 3487804.8/47

In: 284.406 $\pm$ 0.040 χ^2 /NDF:2802681.0/44

Out: 288.489 $\pm$ 0.039 χ^2 /NDF:2851124.8/50

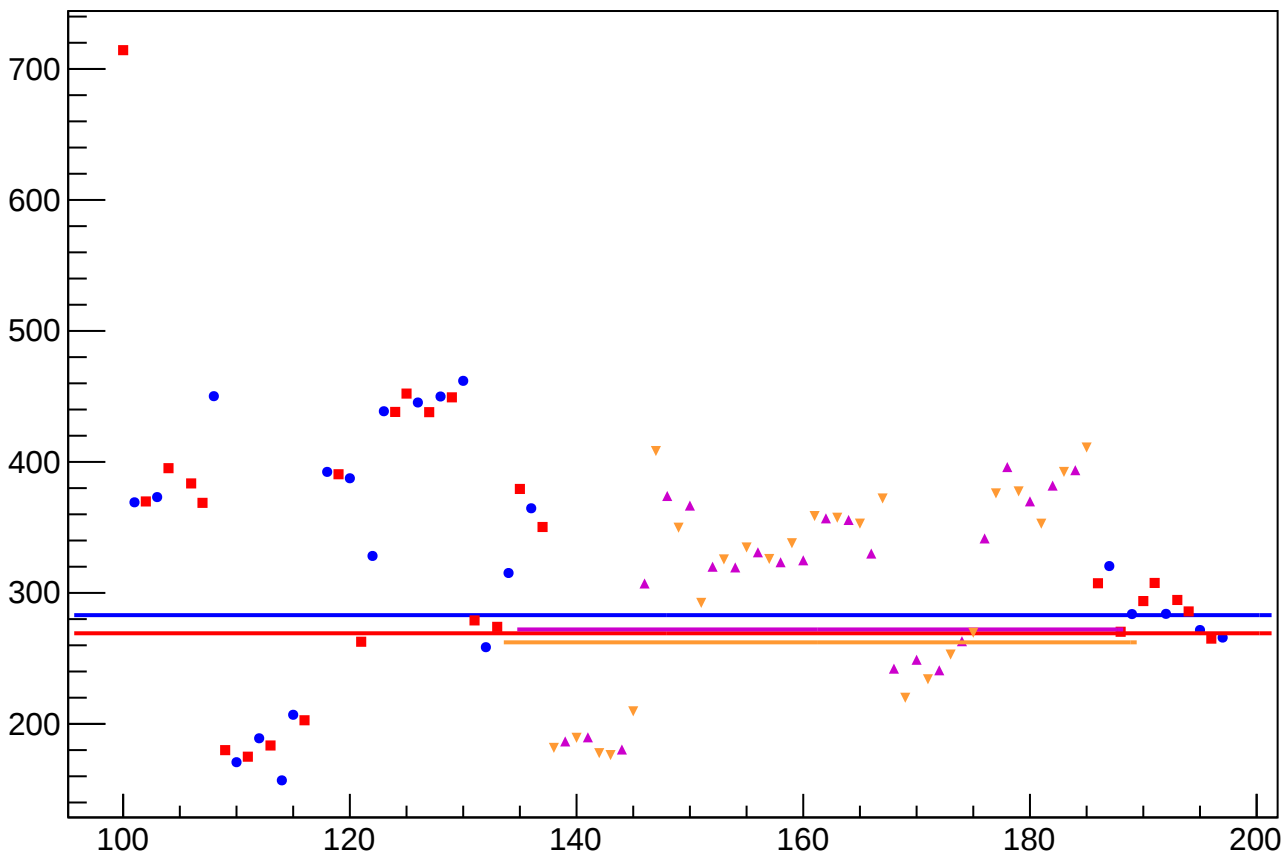
All: 286.517 $\pm$ 0.028 χ^2 /NDF: 5659103.2/95

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133966.945 $\pm$ 0.095 χ^2 /NDF: 589836569.8/21
 Left Out: 131214.985 $\pm$ 0.064 χ^2 /NDF: 1173424494.6/24
 Right Out: 134275.193 $\pm$ 0.085 χ^2 /NDF: 676486721.5/25
 Left In: 131285.623 $\pm$ 0.068 χ^2 /NDF: 1056232192.1/22
 Left: 131248.166 $\pm$ 0.047 χ^2 /NDF: 2230223308.9/4
 Right: 134139.282 $\pm$ 0.063 χ^2 /NDF: 1272148837.7/4
 In: 132193.690 $\pm$ 0.056 χ^2 /NDF: 2167476878.3/4
 Out: 132332.452 $\pm$ 0.051 χ^2 /NDF: 2676612180.0/5
 All: 132268.683 $\pm$ 0.038 χ^2 /NDF: 484745866.1/10

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 283.027+/-0.068 χ^2/NDF : 1528327.2/21

Left Out: 262.260+/-0.045 χ^2/NDF : 2818169.1/24

Right Out: 269.181+/-0.060 χ^2/NDF : 1666561.8/25

Left In: 272.115+/-0.048 χ^2/NDF : 2221925.0/22

Left: 266.889+/-0.033 χ^2/NDF : 5062151.8/47

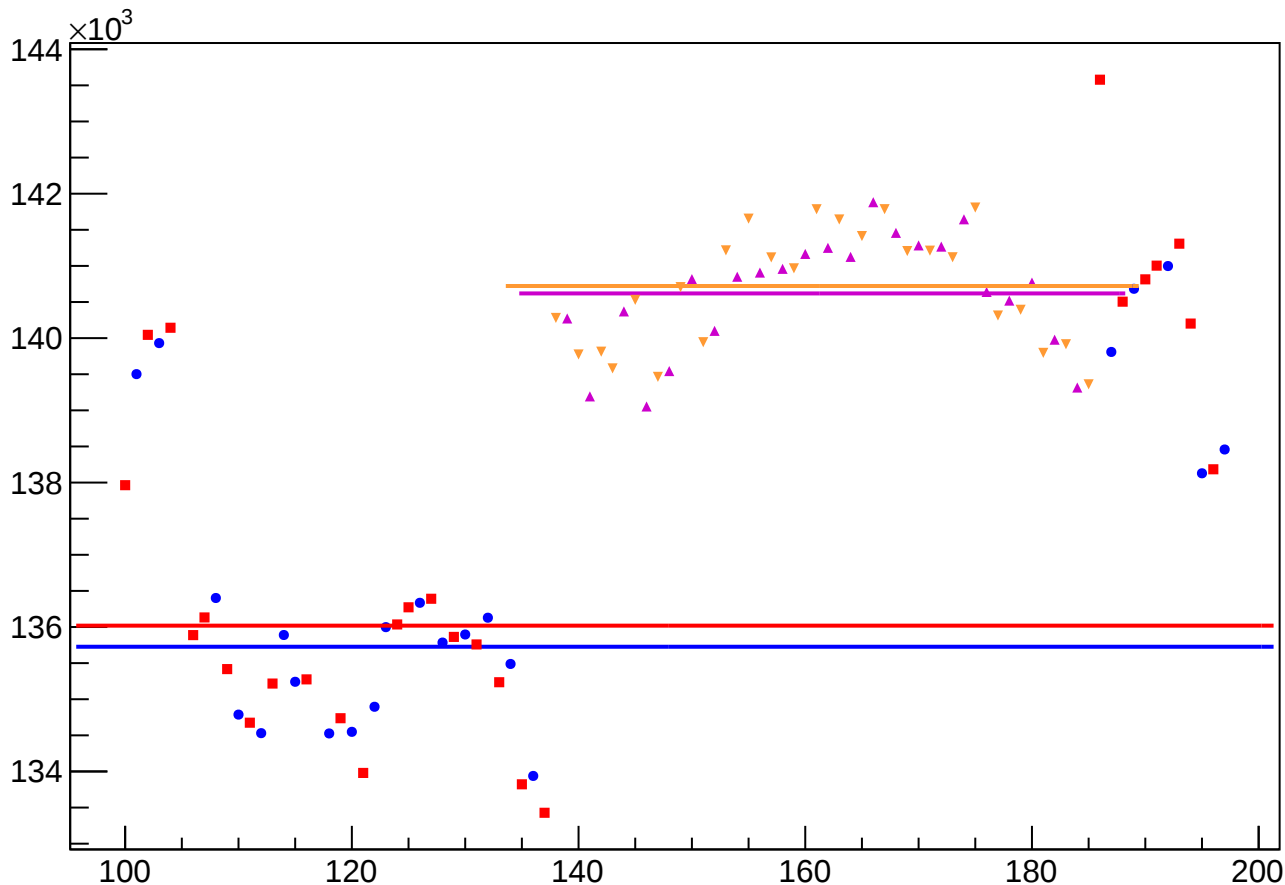
Right: 275.286+/-0.045 χ^2/NDF : 3218395.6/47

In: 275.810+/-0.039 χ^2/NDF : 3767523.1/44

Out: 264.787+/-0.036 χ^2/NDF : 4493188.9/50

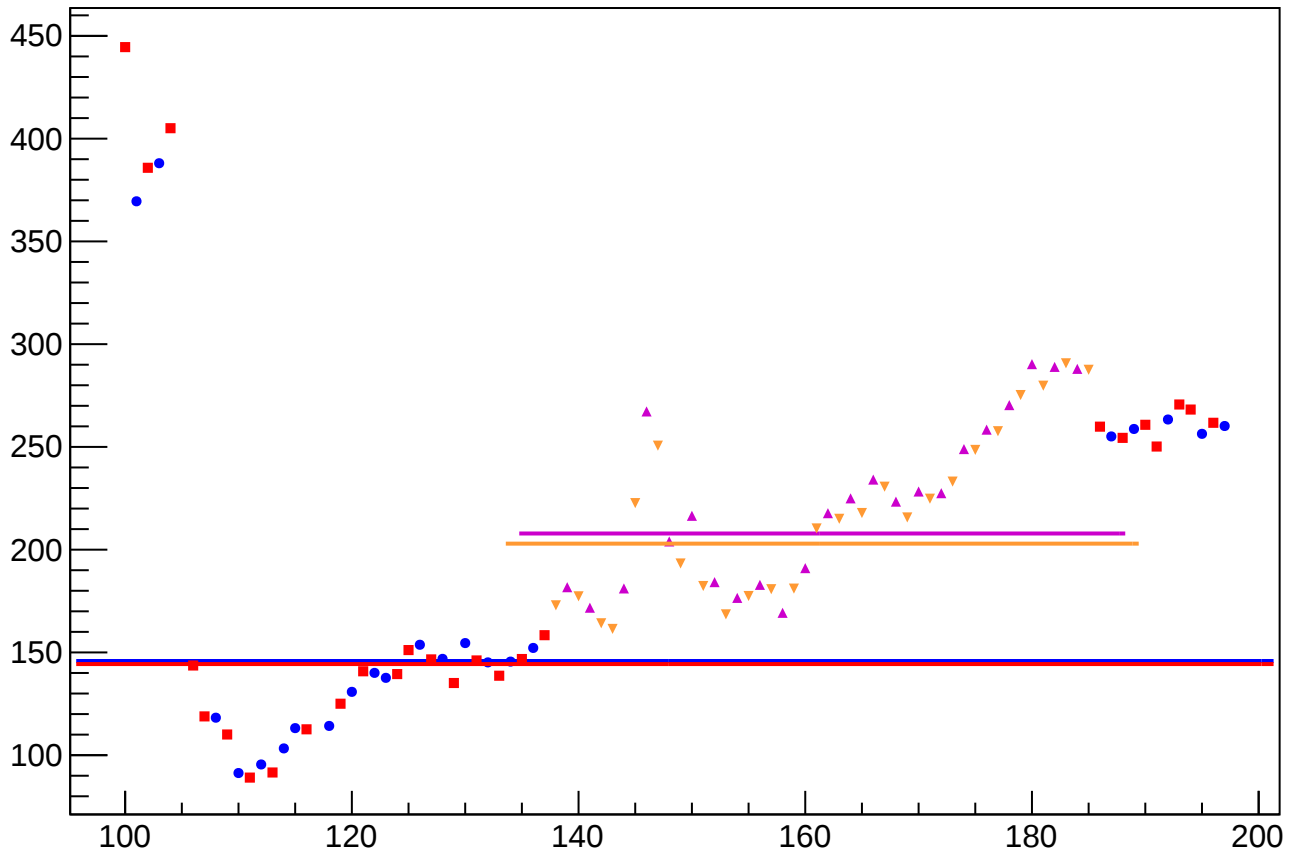
All: 269.853+/-0.027 χ^2/NDF : 8303240.3/95

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135726.872+/-0.051	$\chi^2/\text{NDF}: 1186514974.2/21$	Left: 140673.196+/-0.035	$\chi^2/\text{NDF}: 449761004.9/47$
Left Out: 140721.823+/-0.048	$\chi^2/\text{NDF}: 247257762.8/24$	Right: 135883.515+/-0.035	$\chi^2/\text{NDF}: 3099637952.6/47$
Right Out: 136018.930+/-0.048	$\chi^2/\text{NDF}: 1895598042.7/25$	In: 138173.315+/-0.036	$\chi^2/\text{NDF}: 5971614650.6/47$
Left In: 140619.038+/-0.051	$\chi^2/\text{NDF}: 200370178.0/22$	Out: 138326.177+/-0.034	$\chi^2/\text{NDF}: 6951021593.0/51$
		All: 138254.587+/-0.025	$\chi^2/\text{NDF}: 129321557.0/100$

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 145.826 $\pm$ 0.036 χ^2 /NDF: 2710917.6/21

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 144.336 $\pm$ 0.034 χ^2 /NDF: 3390211.4/25

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

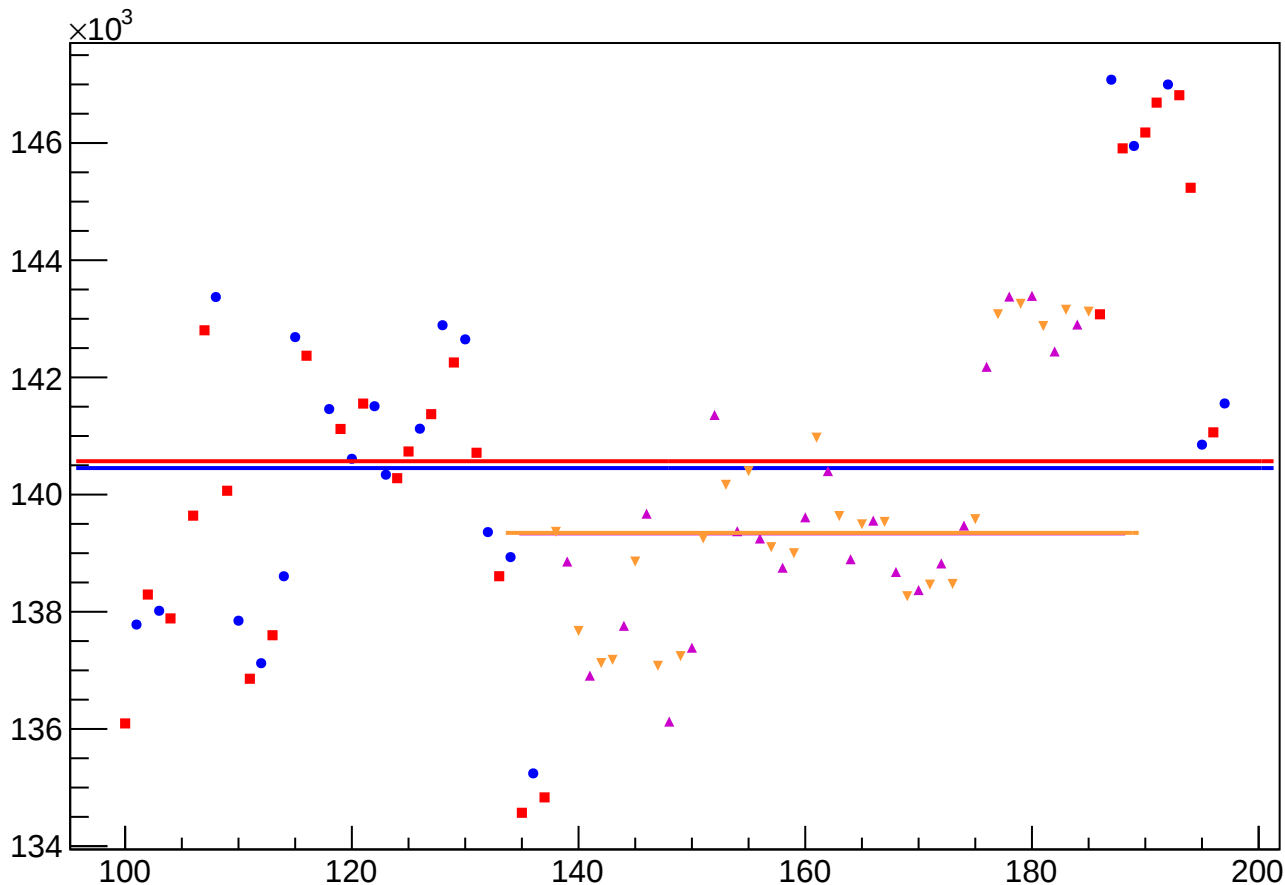
Right: 145.027 $\pm$ 0.025 χ^2 /NDF: 6102040.6/47

In: 176.853 $\pm$ 0.026 χ^2 /NDF:5135054.3/44

Out: 173.084 $\pm$ 0.024 χ^2 /NDF:5935439.2/50

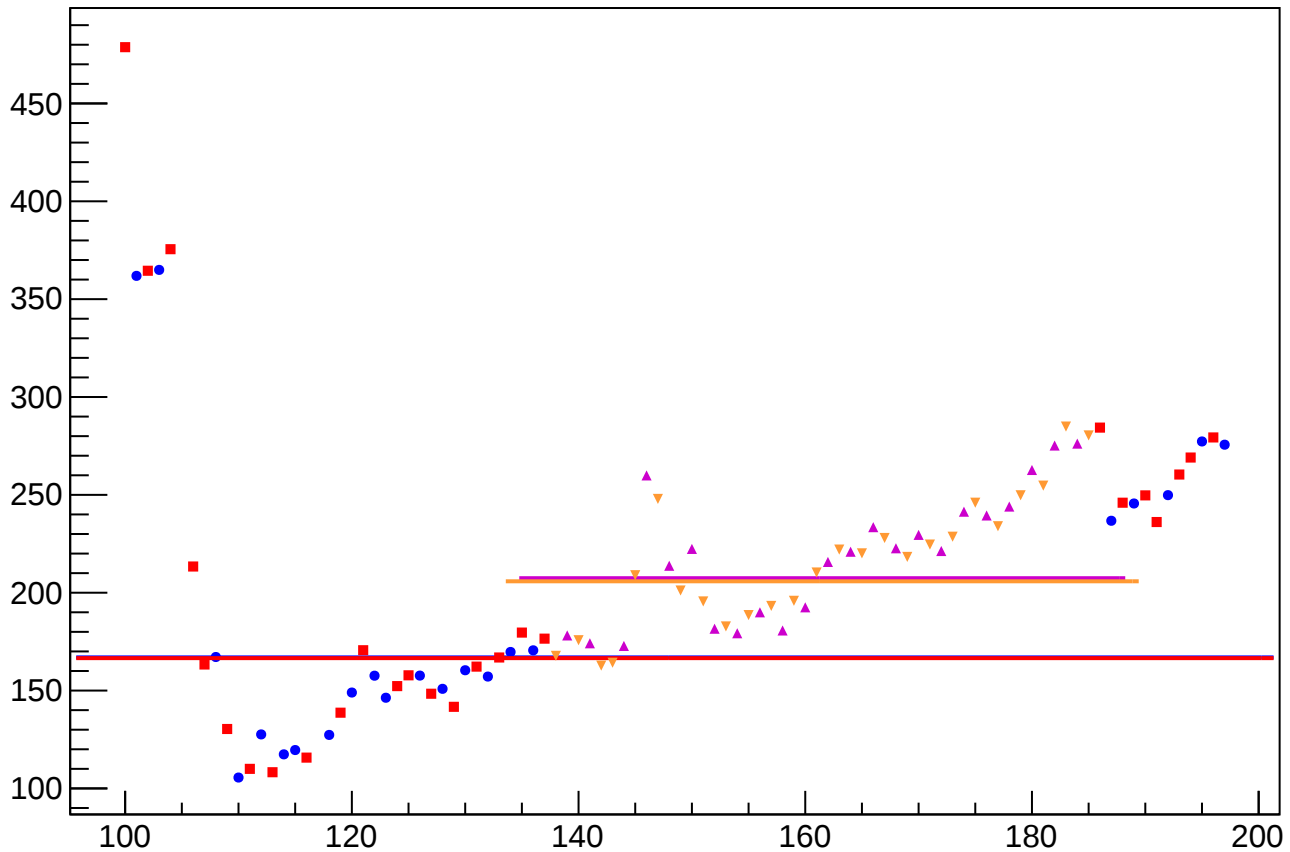
All: 174.849 $\pm$ 0.017 χ^2 /NDF: 11082067.3/95

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140452.390+/-0.057 χ^2/NDF : 2767206293.0/21
 Left Out: 139346.604+/-0.049 χ^2/NDF : 1271172976.7/24
 Right Out: 140569.543+/-0.054 χ^2/NDF : 3209796116.9/25
 Left In: 139337.874+/-0.051 χ^2/NDF : 1293003954.9/22
 Left: 139342.403+/-0.035 χ^2/NDF : 2564192227.9/4
 Right: 140514.825+/-0.039 χ^2/NDF : 5979231270.7/4
 In: 139828.910+/-0.038 χ^2/NDF : 4271953522.8/4
 Out: 139902.593+/-0.036 χ^2/NDF : 4764563113.4/5
 All: 139867.602+/-0.026 χ^2/NDF : 903848843.0/10

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 166.945 $\pm$ 0.041 χ^2 /NDF: 1989707.0/21

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 166.574 $\pm$ 0.038 χ^2 /NDF: 2539132.0/25

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

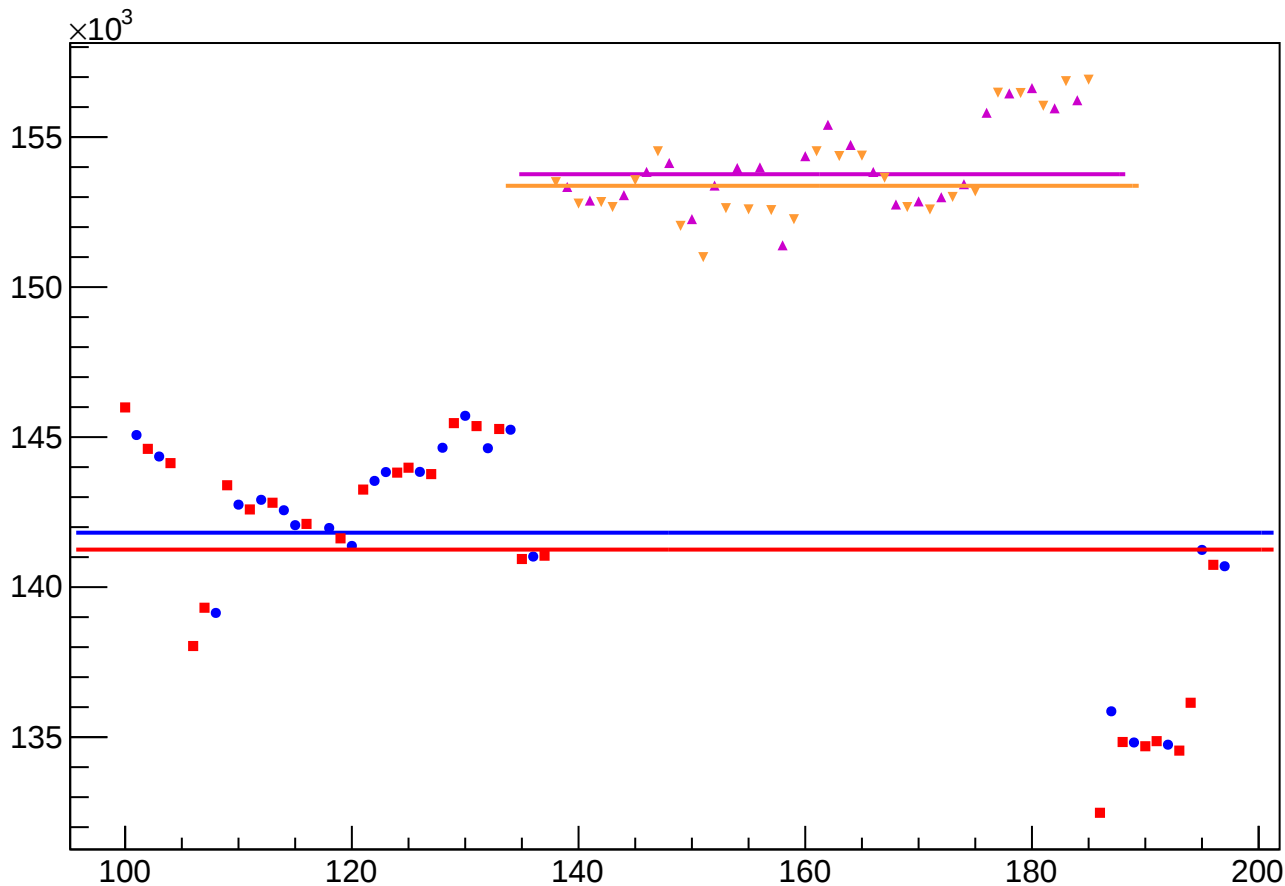
Right: 166.748 $\pm$ 0.028 χ^2 /NDF: 4528883.8/47

In: 189.585 $\pm$ 0.027 χ^2 /NDF: 3250070.4/44

Out: 187.985 $\pm$ 0.026 χ^2 /NDF: 3862298.3/50

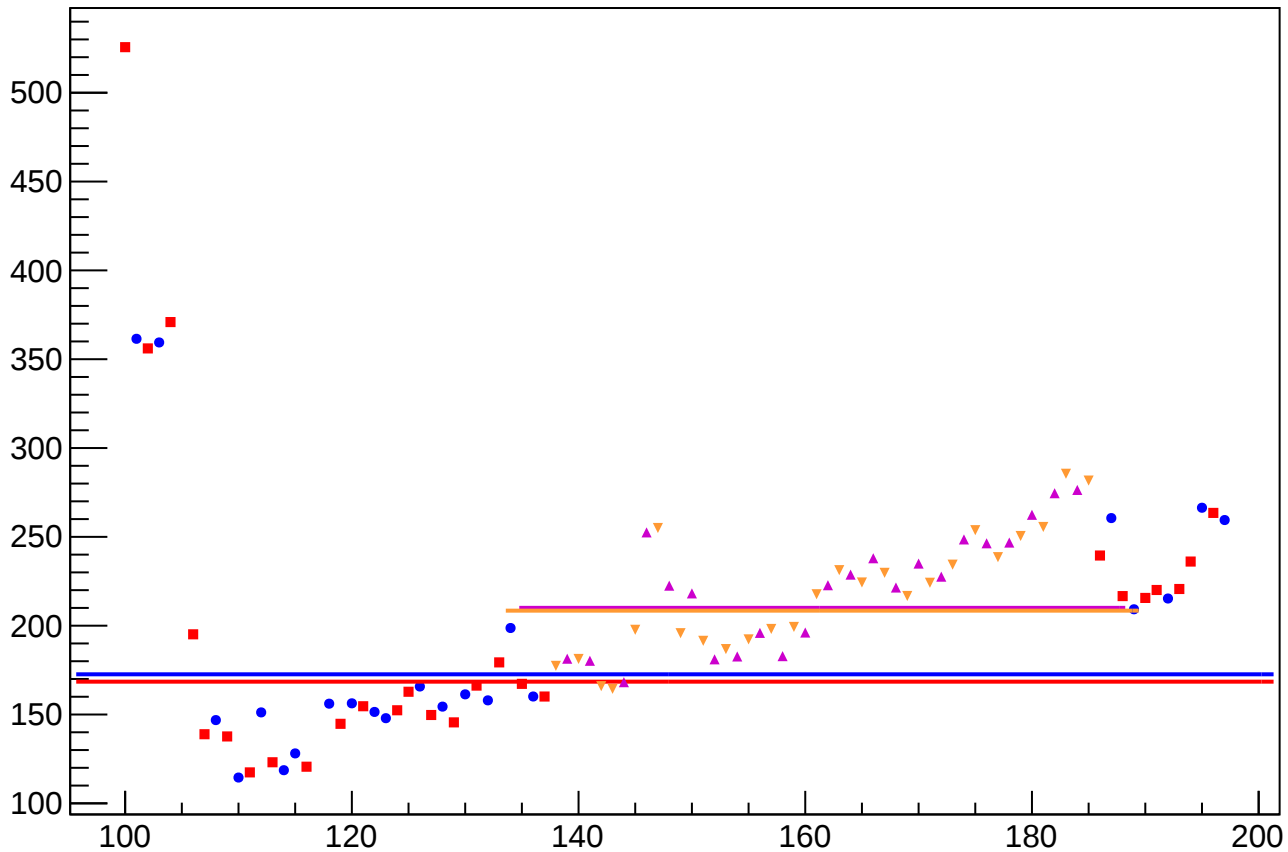
All: 188.745 $\pm$ 0.019 χ^2 /NDF: 7114230.3/95

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141814.484 $\pm$ 0.058	χ^2 /NDF: 2593841629.1/21	Left: 153562.262 $\pm$ 0.036	χ^2 /NDF: 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2 /NDF: 803848095.1/24	Right: 141507.004 $\pm$ 0.039	χ^2 /NDF: 7035093923.8/4
Right Out: 141251.151 $\pm$ 0.053	χ^2 /NDF: 4390486050.4/25	In: 148542.979 $\pm$ 0.039	χ^2 /NDF: 26790540420.8/4
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 147755.274 $\pm$ 0.036	χ^2 /NDF: 32972884450.4/4
		All: 148124.667 $\pm$ 0.026	χ^2 /NDF: 599844930.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 172.635+/-0.041 χ^2/NDF : 1479982.2/21

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 168.492+/-0.038 χ^2/NDF : 1795550.9/25

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

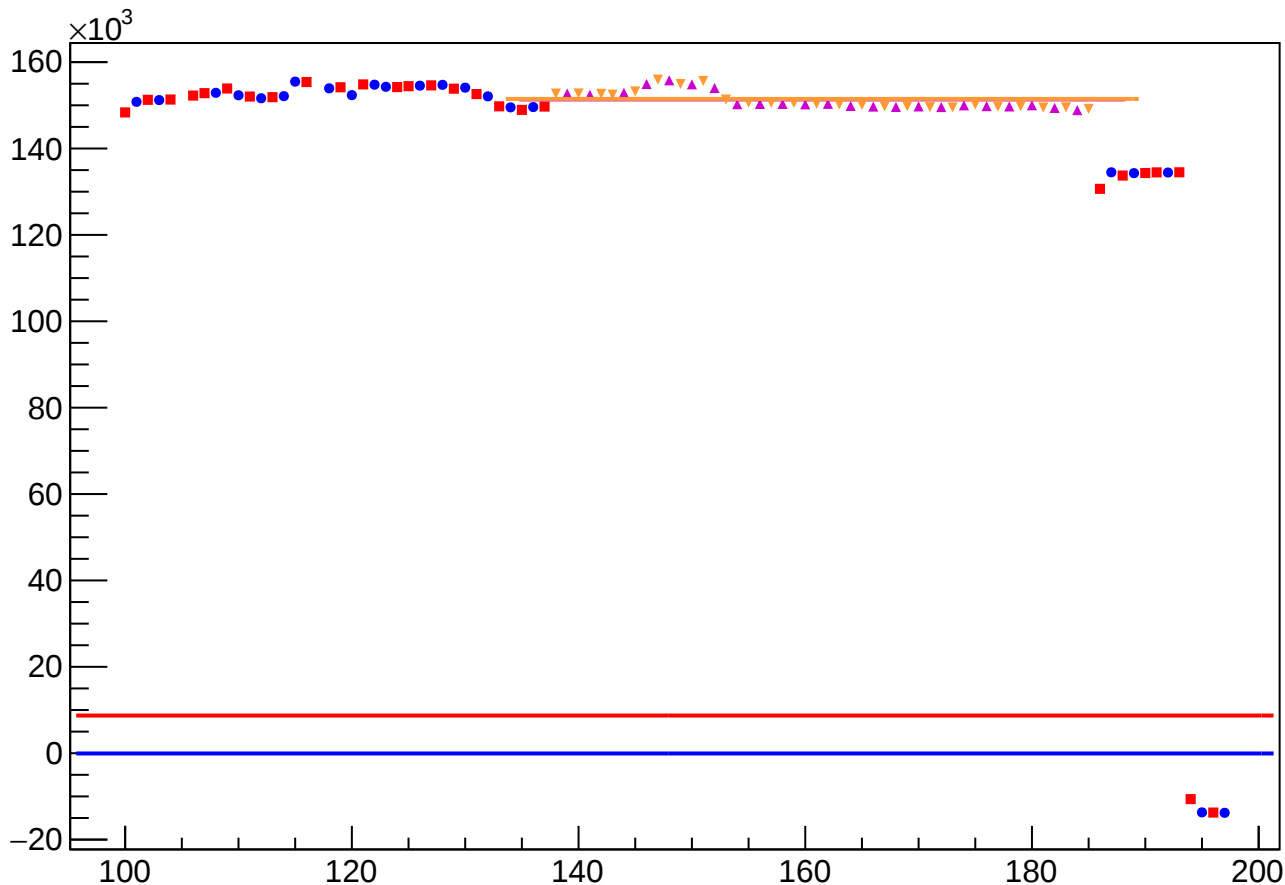
Right: 170.374+/-0.028 χ^2/NDF : 3281024.0/47

In: 193.698+/-0.027 χ^2/NDF : 2644158.9/44

Out: 189.934+/-0.026 χ^2/NDF : 3120235.4/50

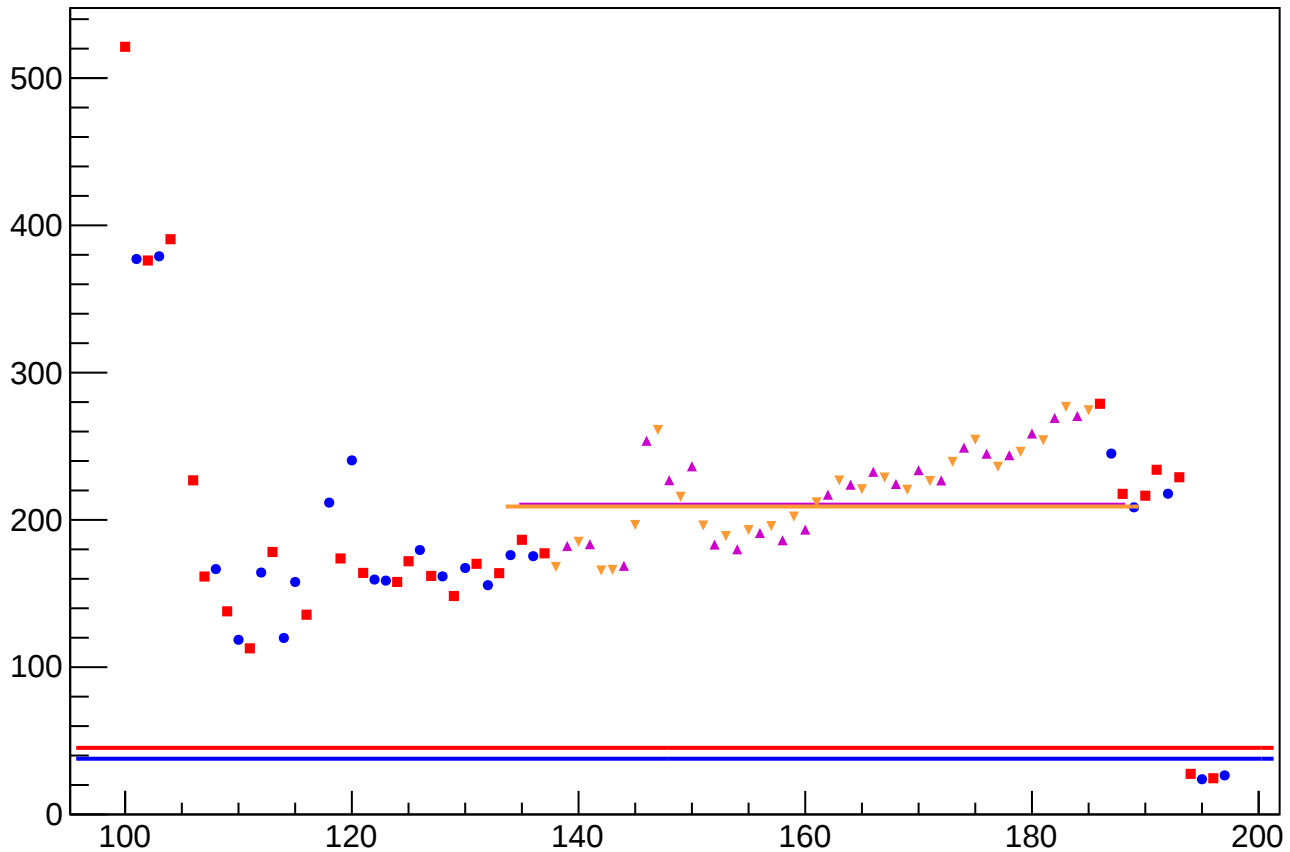
All: 191.699+/-0.019 χ^2/NDF : 5774491.9/95

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -58.063 ± 0.019 $\chi^2/\text{NDF}: 5510254475404.6/21$
 Left Out: 151483.385 ± 0.050 $\chi^2/\text{NDF}: 1481910066.9/24$
 Right Out: 8726.294 ± 0.022 $\chi^2/\text{NDF}: 6340553529892.6/25$
 Left In: 151363.165 ± 0.051 $\chi^2/\text{NDF}: 1421662089.0/22$
 Left: 151425.512 ± 0.036 $\chi^2/\text{NDF}: 2906409079.9/21$
 Right: 3782.170 ± 0.014 $\chi^2/\text{NDF}: 11941239914607.6/24$
 In: 18675.956 ± 0.018 $\chi^2/\text{NDF}: 13116197895736.6/25$
 Out: 32104.046 ± 0.020 $\chi^2/\text{NDF}: 13291044940668.6/25$
 All: 24701.224 ± 0.013 $\chi^2/\text{NDF}: 2665475840.0/25$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 37.849 $\pm$ 0.014 χ^2 /NDF: 10828263.1/21

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 45.243 $\pm$ 0.015 χ^2 /NDF: 12063384.3/25

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

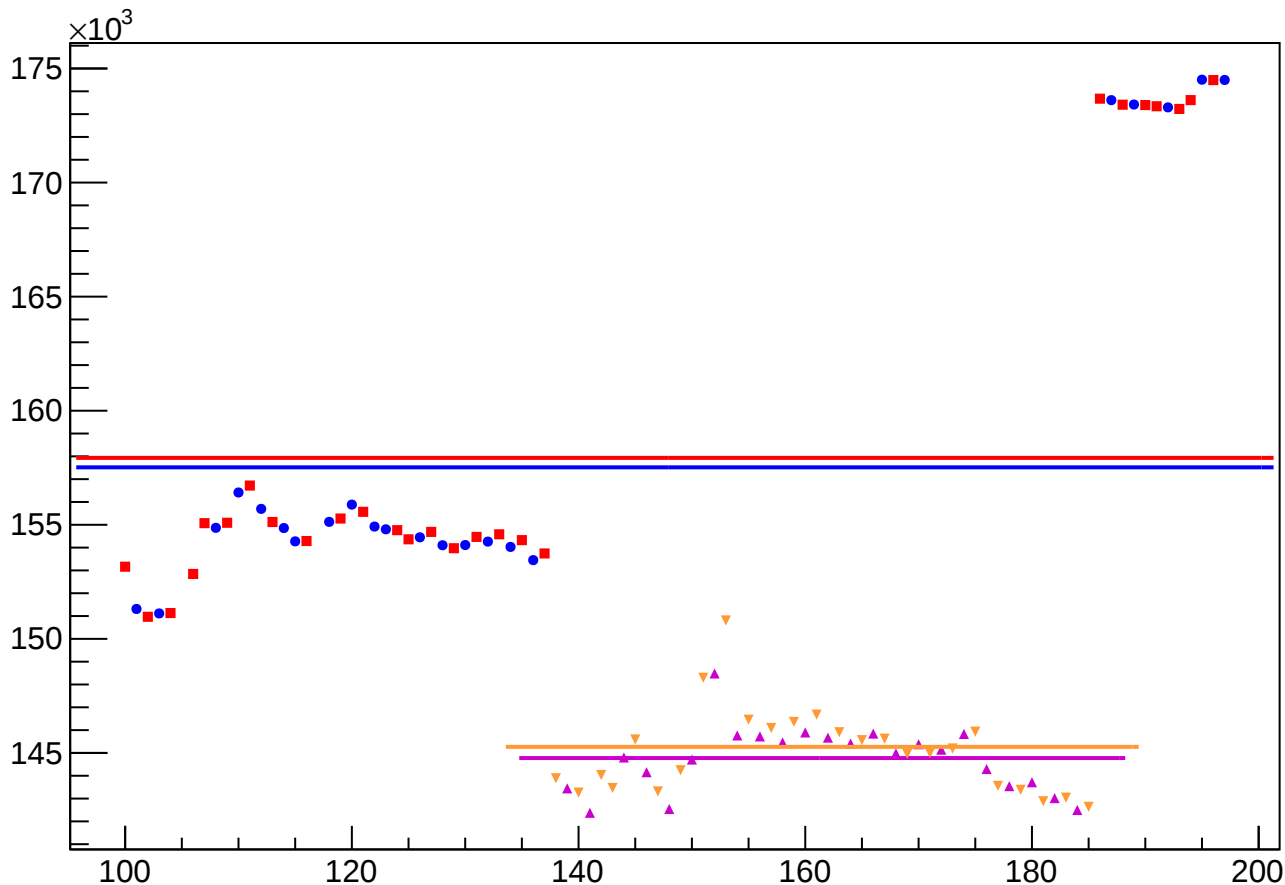
Right: 41.082 $\pm$ 0.010 χ^2 /NDF: 23019775.5/47

In: 59.191 $\pm$ 0.013 χ^2 /NDF: 31243111.4/44

Out: 72.072 $\pm$ 0.014 χ^2 /NDF: 31076225.6/50

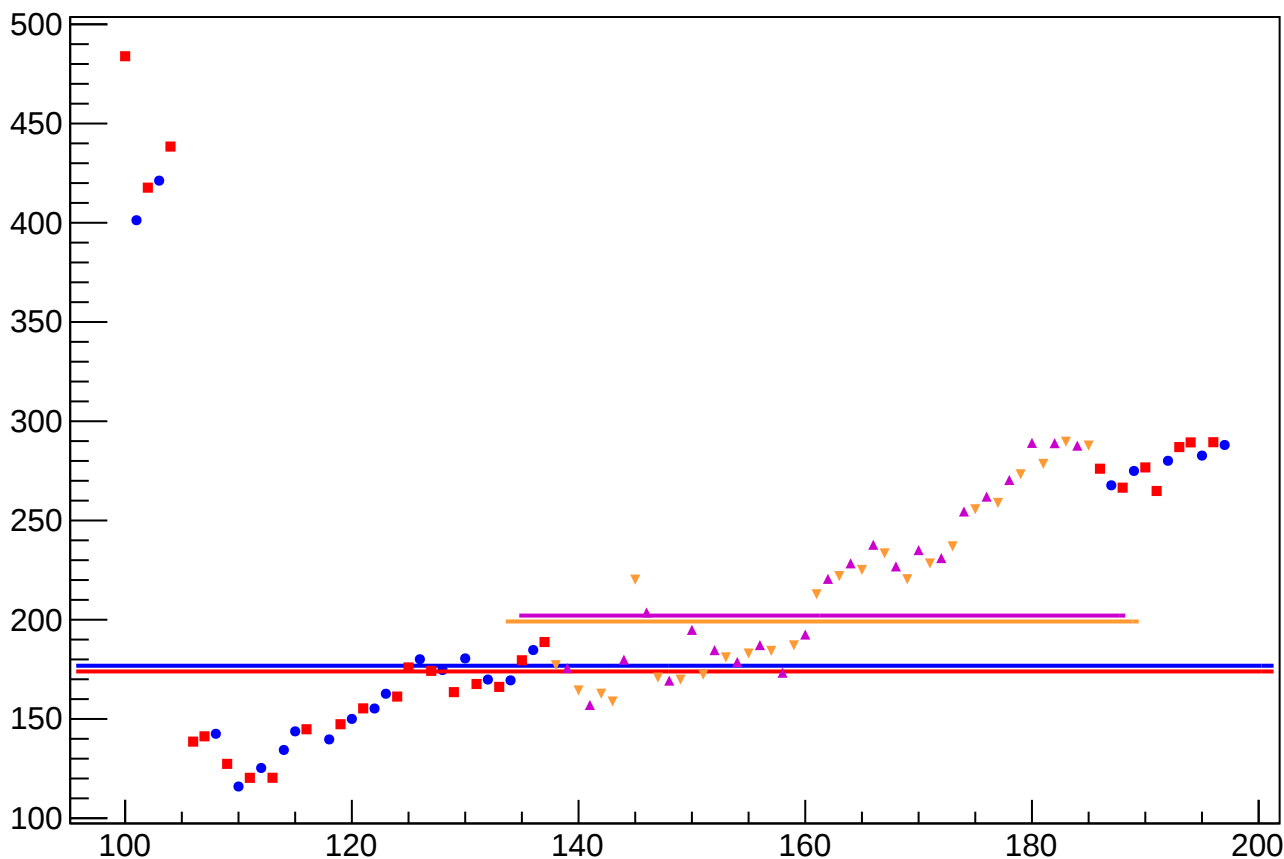
All: 64.971 $\pm$ 0.009 χ^2 /NDF: 62774878.8/95

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 157518.219 $\pm$ 0.061	χ^2 /NDF: 12479693919.9/21	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/21
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 157743.326 $\pm$ 0.041	χ^2 /NDF: 28576217701.3/24
Right Out: 157932.947 $\pm$ 0.056	χ^2 /NDF: 16071116688.6/25	In: 149881.015 $\pm$ 0.038	χ^2 /NDF: 39881691376.1/25
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 150593.098 $\pm$ 0.036	χ^2 /NDF: 47824572297.4/22
		All: 150258.945 $\pm$ 0.026	χ^2 /NDF: 878890713.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 176.824 $\pm$ 0.043 χ^2 /NDF: 2118710.7/21

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 173.934 $\pm$ 0.039 χ^2 /NDF: 2614115.6/25

Left In: 202.090 $\pm$ 0.035 χ^2 /NDF:1057833.2/22

Left: 200.538 $\pm$ 0.024 χ^2 /NDF: 2213821.5/47

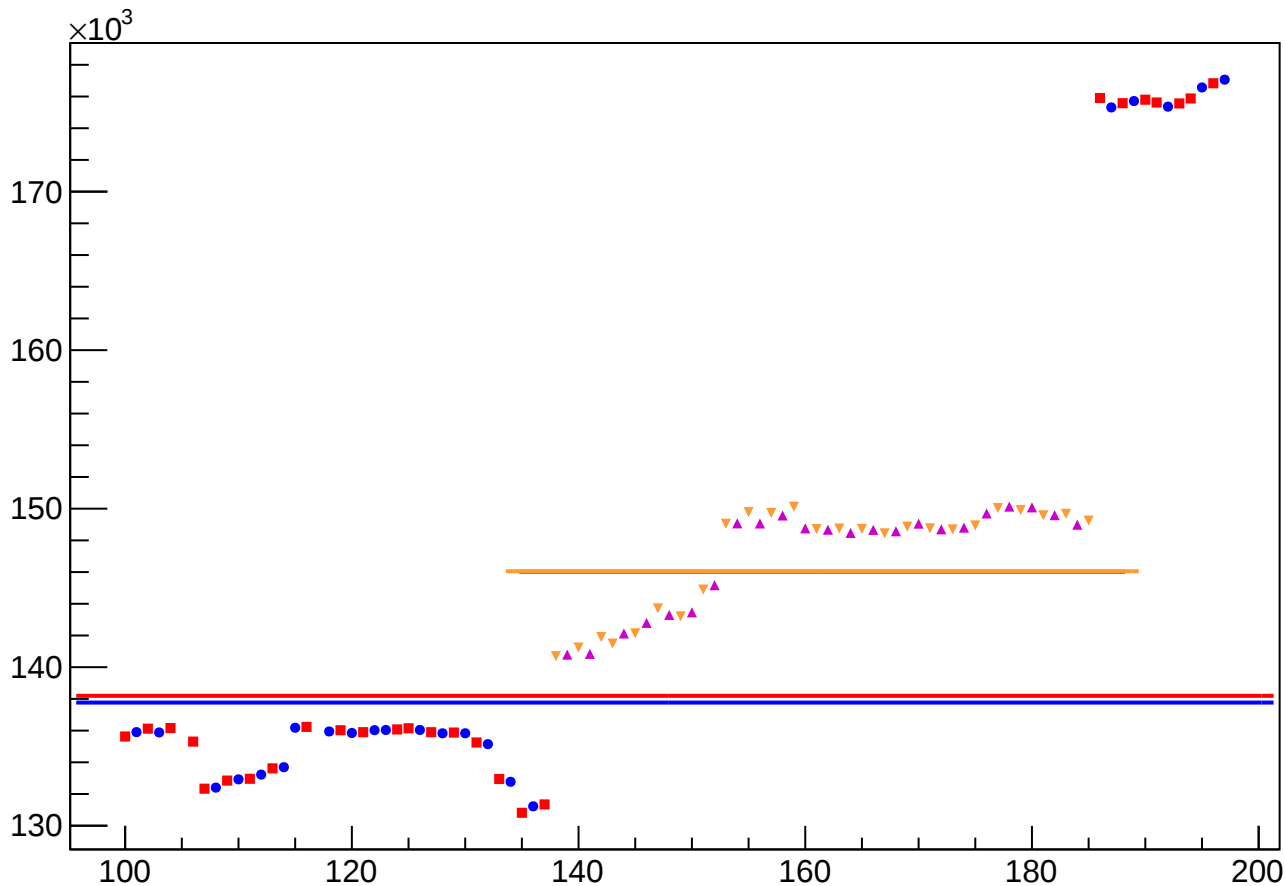
Right: 175.255 $\pm$ 0.029 χ^2 /NDF: 4735293.8/47

In: 191.968 $\pm$ 0.027 χ^2 /NDF:3384802.5/44

Out: 188.528 $\pm$ 0.026 χ^2 /NDF:4003824.8/50

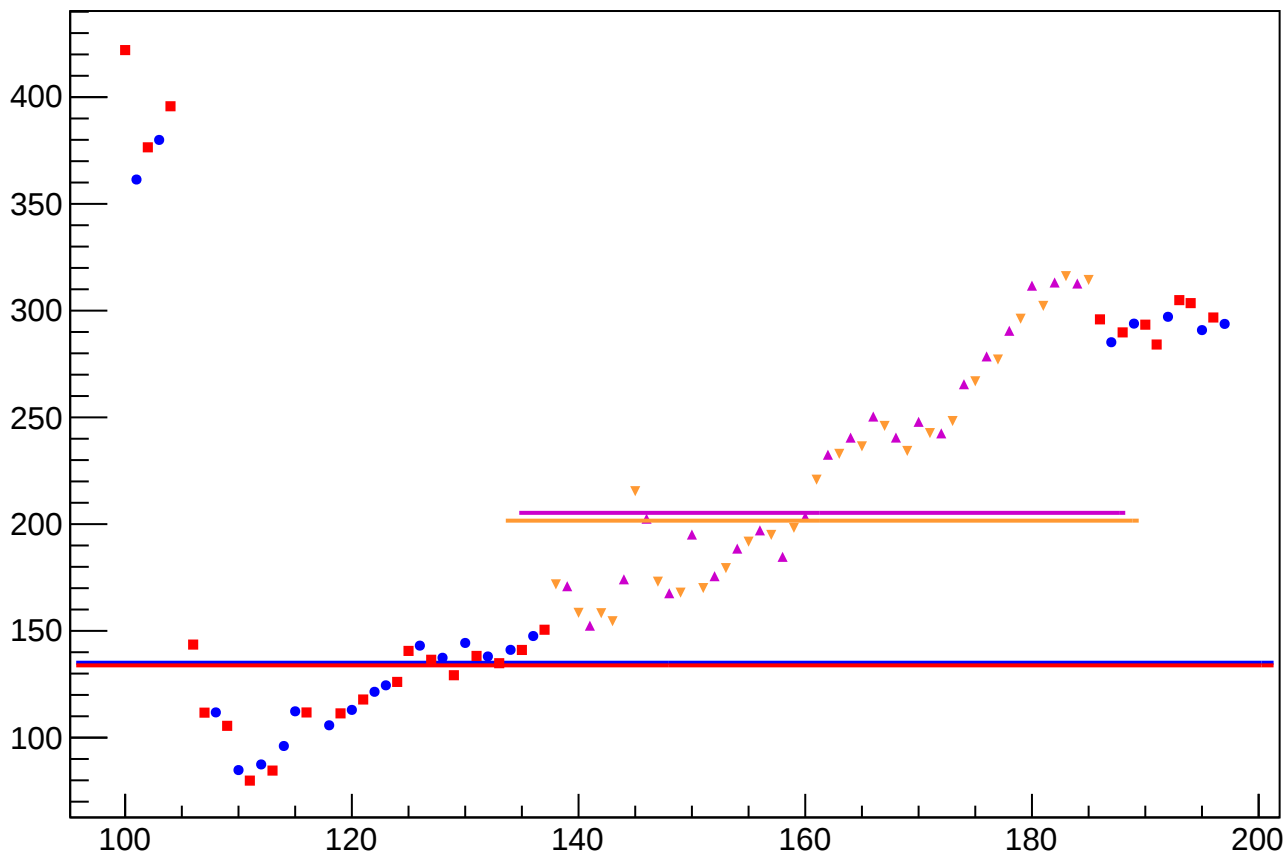
All: 190.142 $\pm$ 0.019 χ^2 /NDF: 7397159.6/95

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 137768.249+/-0.048	χ^2/NDF : 58348360656.8/21	Left: 146036.626+/-0.035	χ^2/NDF : 9994930852.8/4
Left Out: 146051.733+/-0.048	χ^2/NDF : 5403300123.1/24	Right: 137995.821+/-0.033	χ^2/NDF : 134479393496
Right Out: 138194.176+/-0.045	χ^2/NDF : 76089418035.1/25	In: 141694.789+/-0.035	χ^2/NDF : 76850552209.4/4
Left In: 146020.015+/-0.051	χ^2/NDF : 4591425371.4/22	Out: 141850.014+/-0.033	χ^2/NDF : 95642329952.9
		All: 141776.954+/-0.024	χ^2/NDF : 172503328

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 135.086+/-0.034 χ^2/NDF : 3415902.0/21

Left Out: 201.632+/-0.034 χ^2/NDF :1589564.0/24

Right Out: 133.846+/-0.032 χ^2/NDF : 4329542.1/25

Left In: 205.286+/-0.036 χ^2/NDF :1425292.7/22

Left: 203.372+/-0.025 χ^2/NDF : 3020309.5/47

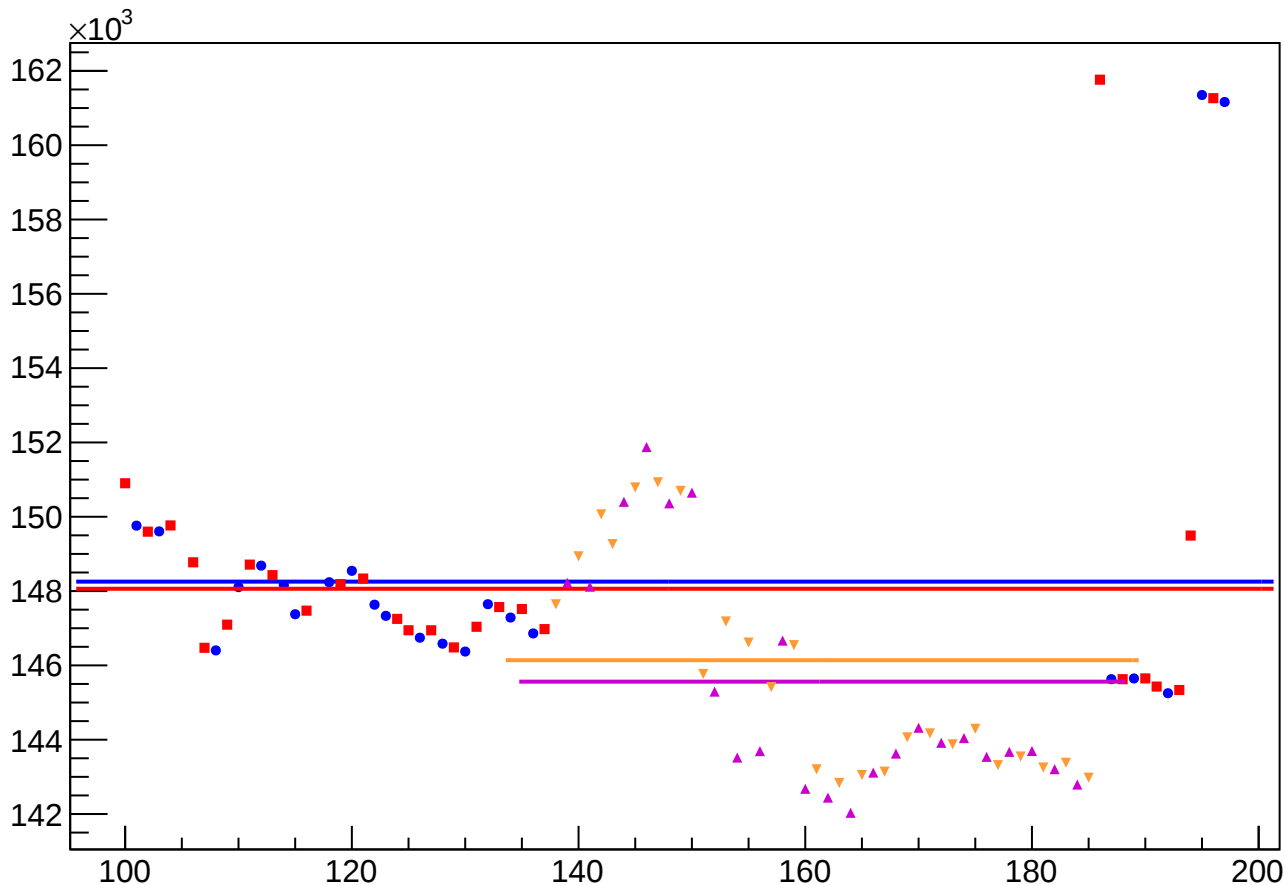
Right: 134.423+/-0.023 χ^2/NDF : 7746148.7/47

In: 168.490+/-0.025 χ^2/NDF :6854779.3/44

Out: 165.384+/-0.023 χ^2/NDF :8025164.8/50

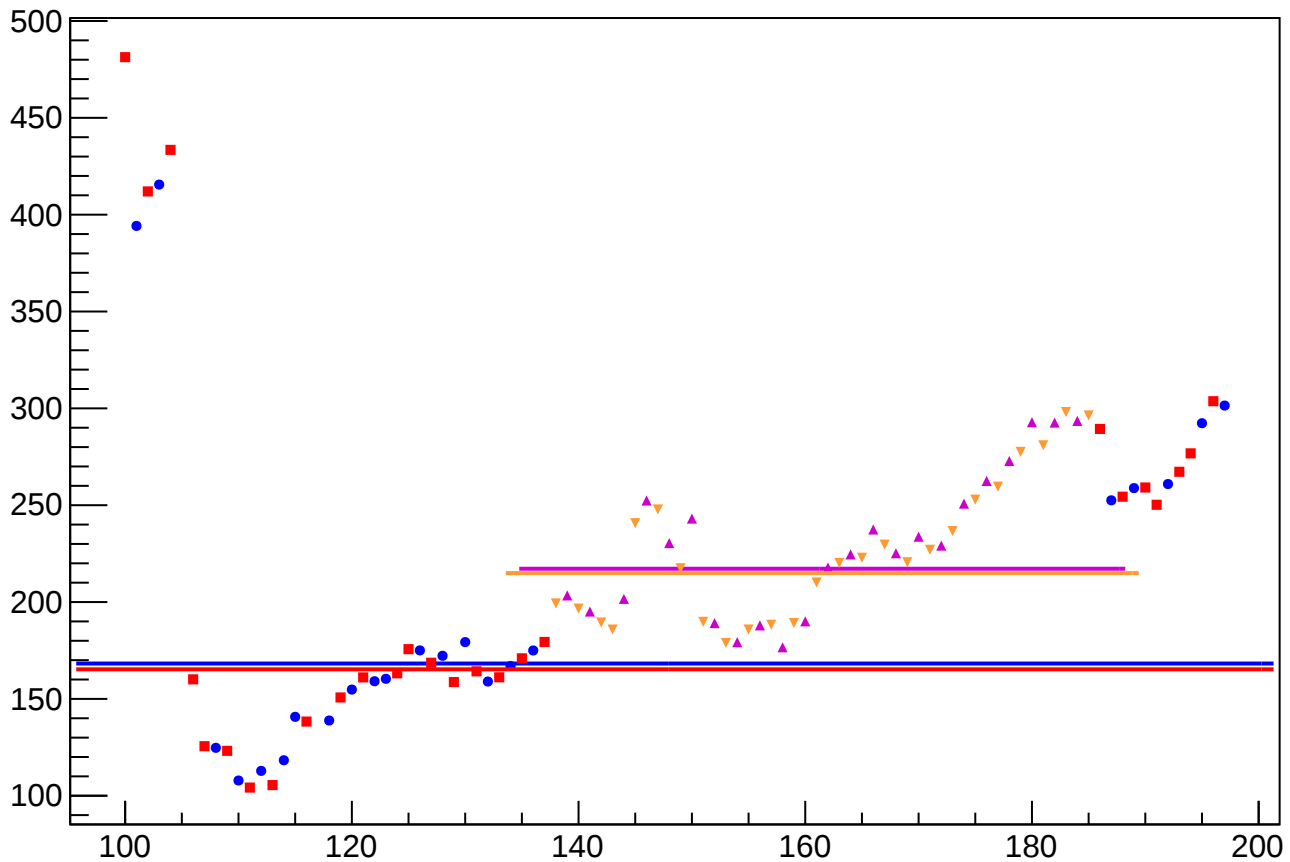
All: 166.846+/-0.017 χ^2/NDF : 14888307.9/95

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 148254.393 $\pm$ 0.058	χ^2 /NDF: 3441935652.9/21	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 148150.308 $\pm$ 0.039	χ^2 /NDF: 6209590438.7/4
Right Out: 148062.518 $\pm$ 0.053	χ^2 /NDF: 2761752227.6/25	In: 146785.217 $\pm$ 0.039	χ^2 /NDF: 7665484072.9/4
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 147054.581 $\pm$ 0.037	χ^2 /NDF: 6140558274.0/5
		All: 146928.218 $\pm$ 0.027	χ^2 /NDF: 13831104

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 168.261+/-0.041 χ^2/NDF : 2358670.4/21

Left Out: 214.945+/-0.036 χ^2/NDF : 728515.5/24

Right Out: 165.276+/-0.038 χ^2/NDF : 2919509.5/25

Left In: 217.203+/-0.038 χ^2/NDF : 764798.3/22

Left: 216.027+/-0.026 χ^2/NDF : 1495200.1/47

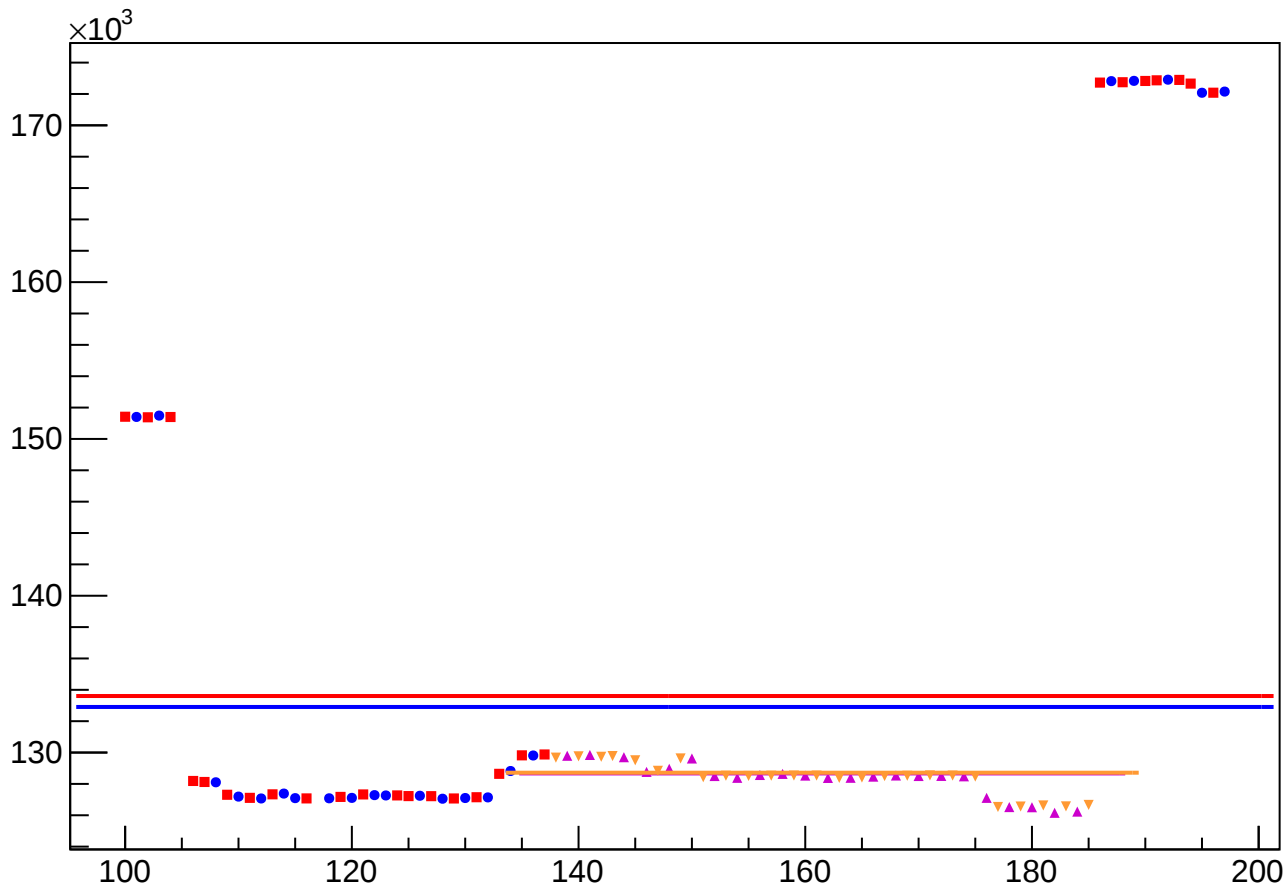
Right: 166.642+/-0.028 χ^2/NDF : 5281036.6/47

In: 194.971+/-0.028 χ^2/NDF : 3896204.7/44

Out: 191.307+/-0.026 χ^2/NDF : 4554156.8/50

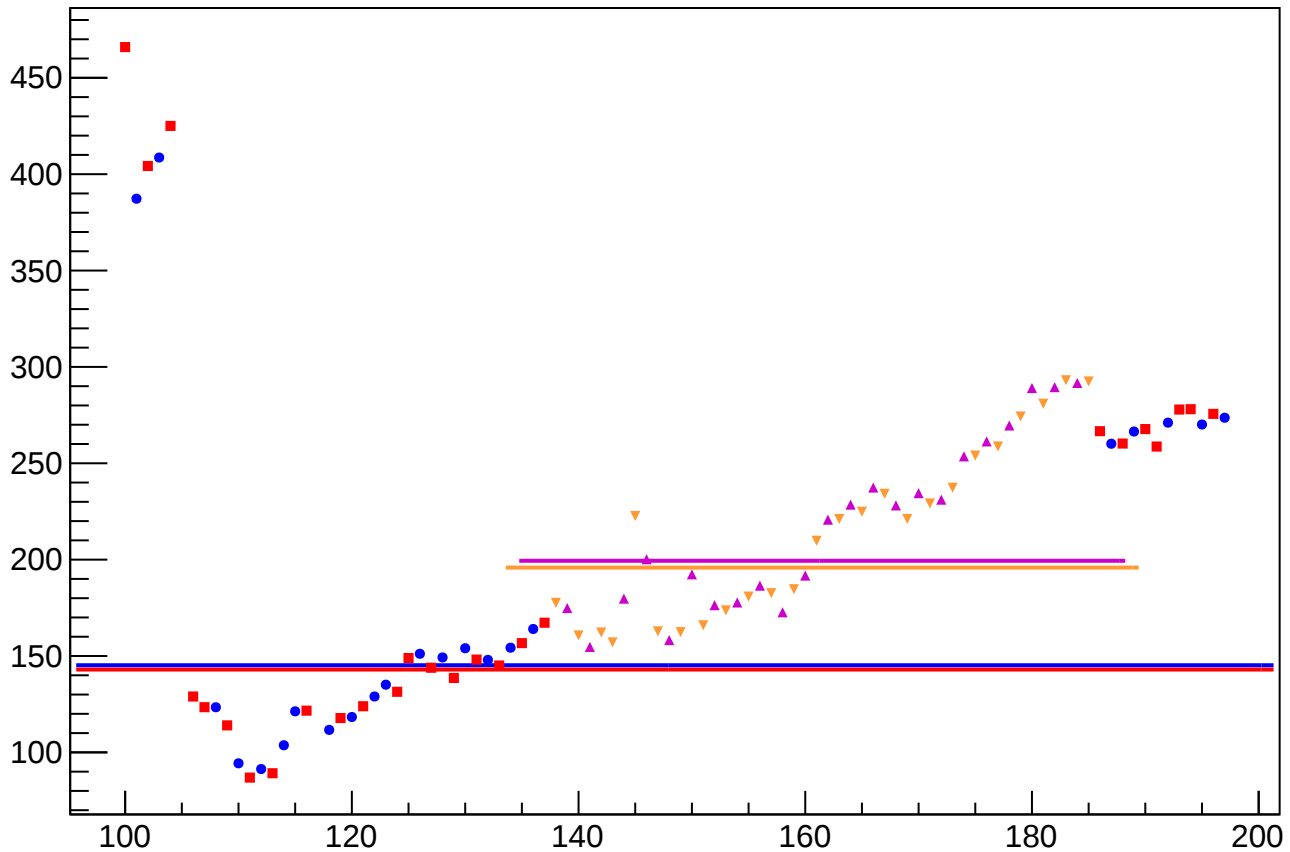
All: 193.026+/-0.019 χ^2/NDF : 8459636.4/95

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 132906.928 $\pm$ 0.051 χ^2 /NDF: 78449848808.9/21
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 133604.666 $\pm$ 0.047 χ^2 /NDF: 103702735484.8/25
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128691.898 $\pm$ 0.034 χ^2 /NDF: 681729975.4/41
 Right: 133284.564 $\pm$ 0.035 χ^2 /NDF: 182253320257.1/41
 In: 130695.935 $\pm$ 0.035 χ^2 /NDF: 82366873481.1/41
 Out: 131139.324 $\pm$ 0.033 χ^2 /NDF: 109488475187.1/41
 All: 130931.989 $\pm$ 0.024 χ^2 /NDF: 191938968.1/41

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 145.213+/-0.036 χ^2/NDF : 2959085.3/21

Left Out: 195.883+/-0.033 χ^2/NDF : 1313361.5/24

Right Out: 142.984+/-0.033 χ^2/NDF : 3659239.6/25

Left In: 199.413+/-0.035 χ^2/NDF : 1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

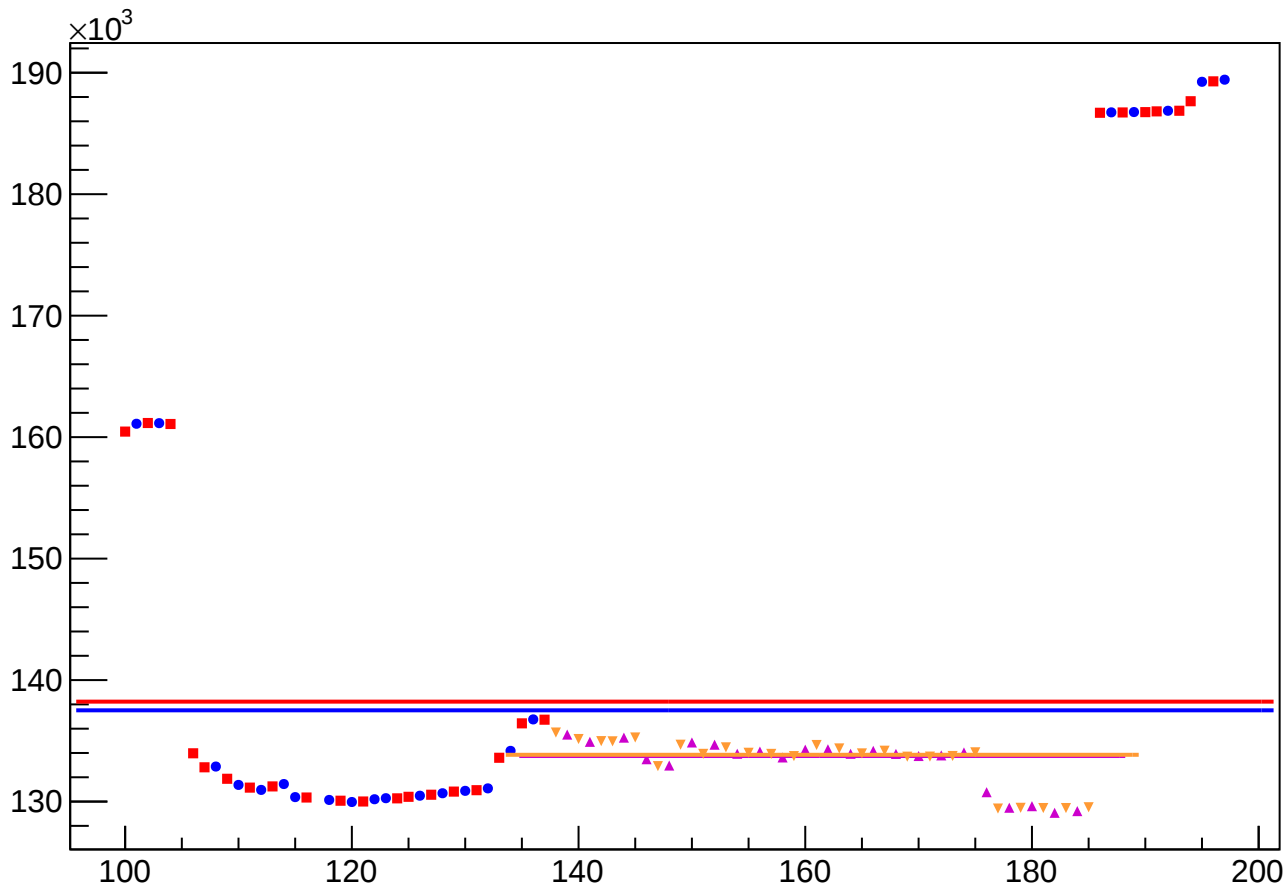
Right: 144.007+/-0.024 χ^2/NDF : 6620379.8/47

In: 173.477+/-0.025 χ^2/NDF : 5296142.6/44

Out: 169.653+/-0.023 χ^2/NDF : 6245142.4/50

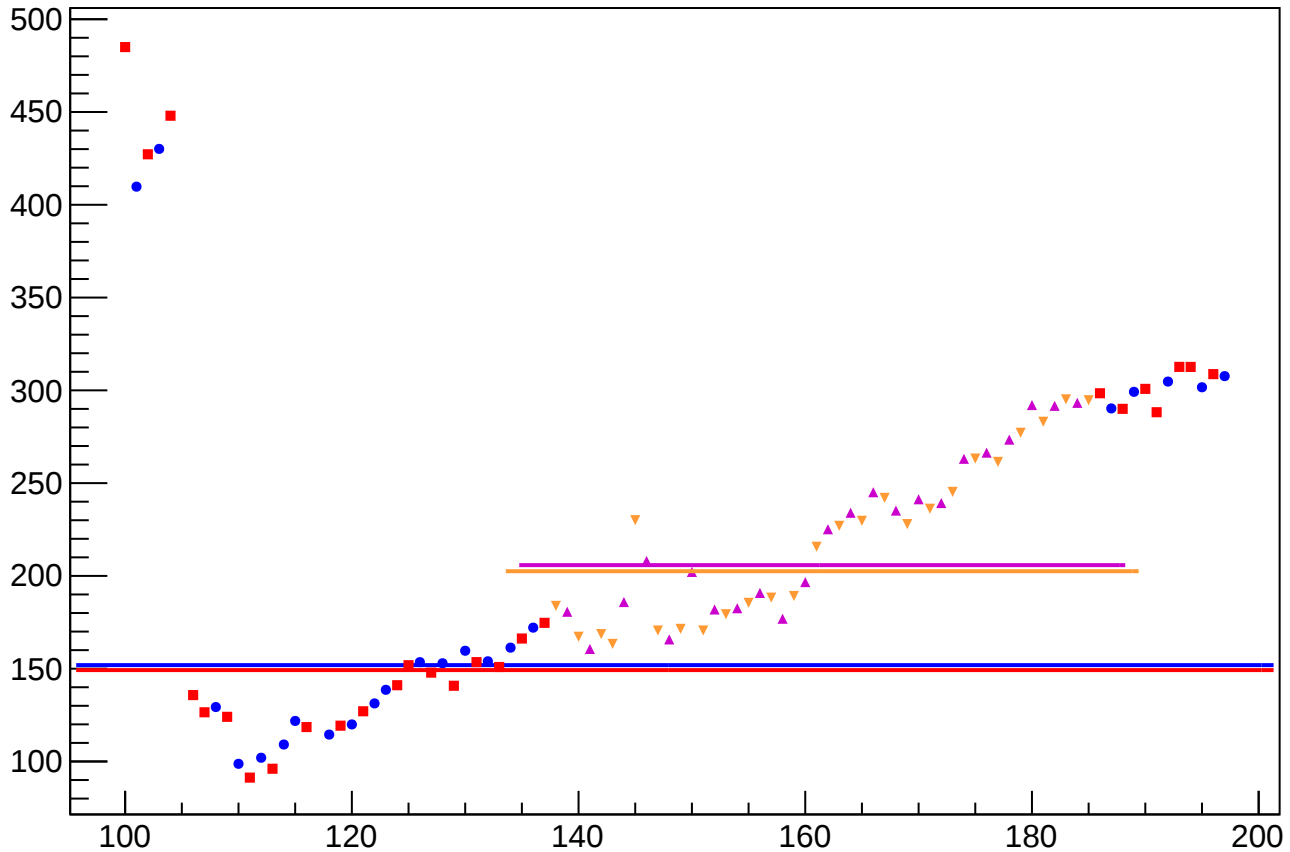
All: 171.441+/-0.017 χ^2/NDF : 11553725.3/95

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 137510.875 $\pm$ 0.054 χ^2 /NDF: 101466090495.5/21
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/21
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right: 137898.357 $\pm$ 0.036 χ^2 /NDF: 231565685630.1/24
 Right Out: 138226.563 $\pm$ 0.050 χ^2 /NDF: 130003783017.8/25
 In: 135511.919 $\pm$ 0.037 χ^2 /NDF: 105017807325.7/25
 Out: 135980.701 $\pm$ 0.035 χ^2 /NDF: 135092632587.1/25
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 All: 135761.272 $\pm$ 0.025 χ^2 /NDF: 240196630.1/25

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 151.919+/-0.038 χ^2/NDF : 3132630.4/21

Left Out: 202.527+/-0.034 χ^2/NDF :1211991.5/24

Right Out: 149.245+/-0.035 χ^2/NDF : 3929316.7/25

Left In: 205.808+/-0.036 χ^2/NDF :1094330.7/22

Left: 204.091+/-0.025 χ^2/NDF : 2310735.8/47

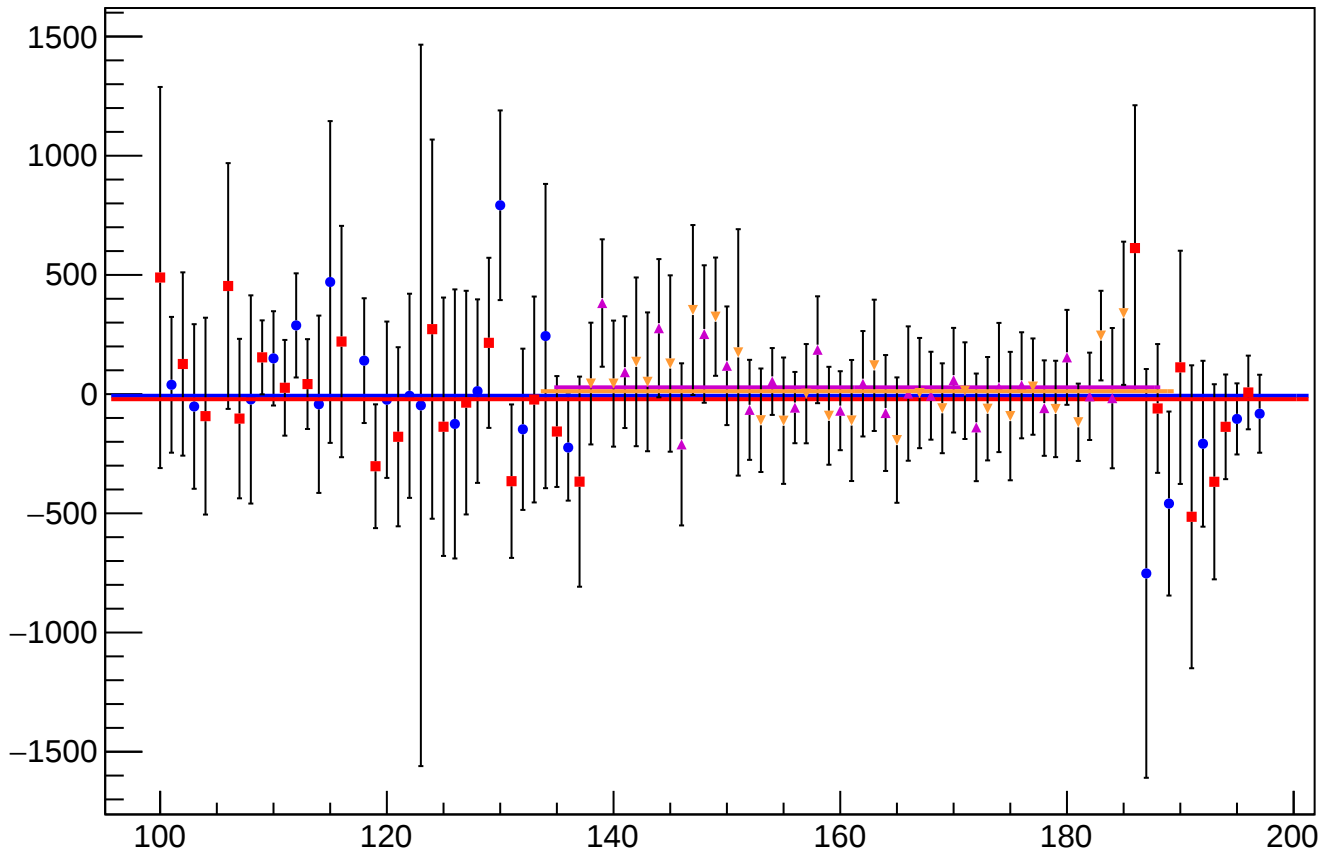
Right: 150.471+/-0.026 χ^2/NDF : 7064621.9/47

In: 180.559+/-0.026 χ^2/NDF :5293418.5/44

Out: 176.591+/-0.024 χ^2/NDF :6329948.1/50

All: 178.448+/-0.018 χ^2/NDF : 11635718.0/95

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -6.899 ± 62.260 $\chi^2/\text{NDF}: 11.8/21$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -21.364 ± 58.187 $\chi^2/\text{NDF}: 10.1/25$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

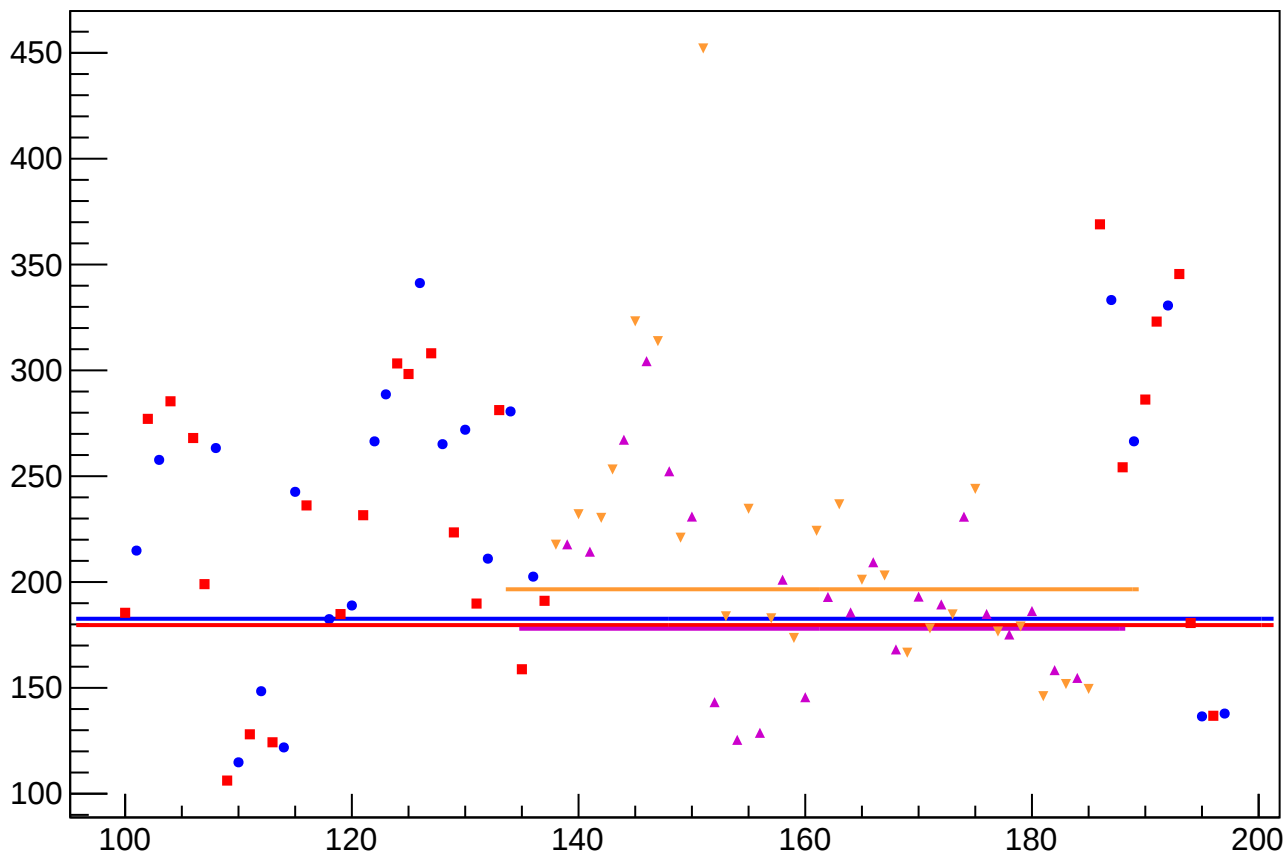
Right: -14.620 ± 42.511 $\chi^2/\text{NDF}: 21.9/47$

In: 16.432 ± 36.304 $\chi^2/\text{NDF}: 18.7/44$

Out: -1.245 ± 36.811 $\chi^2/\text{NDF}: 18.9/50$

All: 7.716 ± 25.848 $\chi^2/\text{NDF}: 37.7/95$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 182.654 $\pm$ 0.044 χ^2/NDF : 1916185.5/21

Left Out: 196.576 $\pm$ 0.034 χ^2/NDF : 1778719.0/24

Right Out: 179.658 $\pm$ 0.041 χ^2/NDF : 2629722.3/25

Left In: 177.933 $\pm$ 0.032 χ^2/NDF : 1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2/NDF : 3547823.4/47

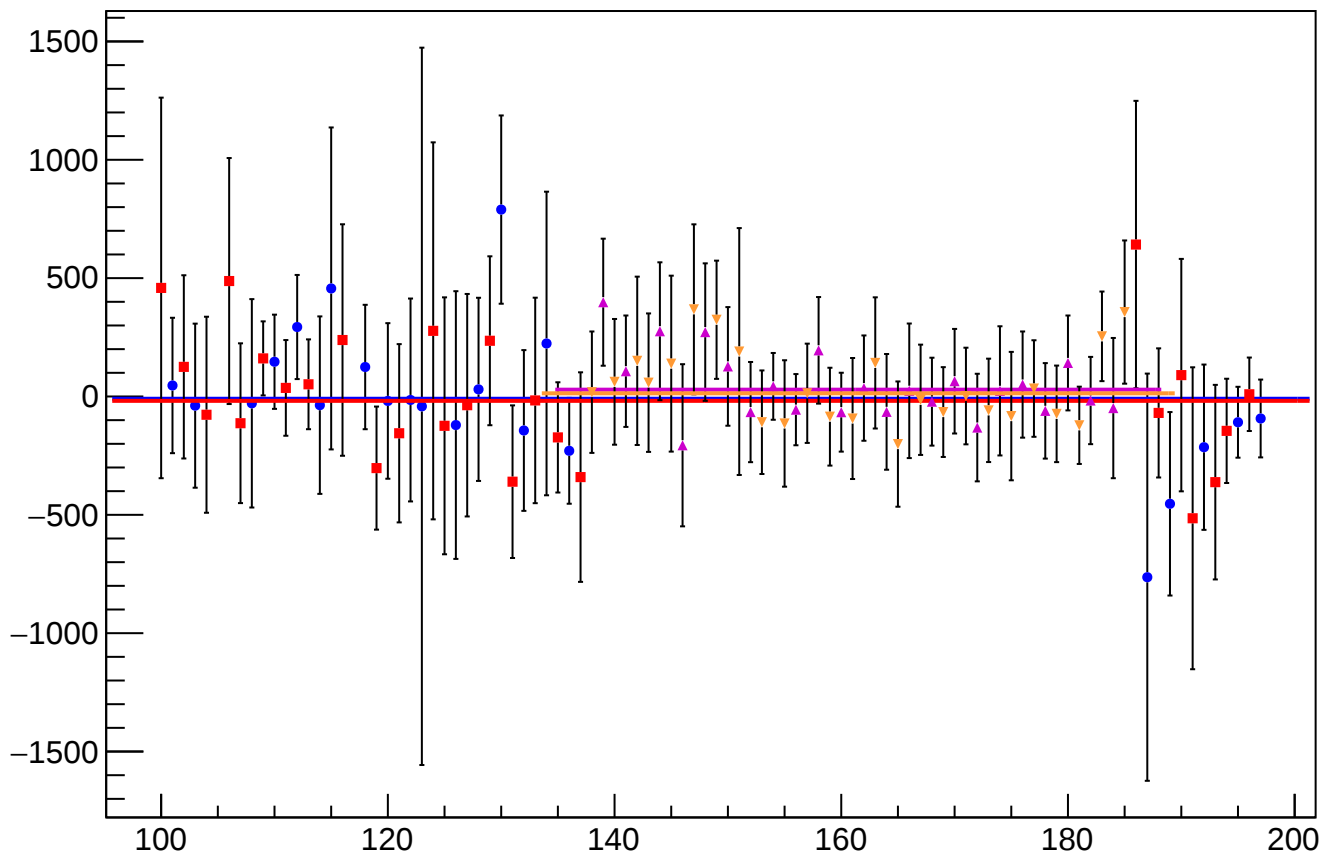
Right: 181.055 $\pm$ 0.030 χ^2/NDF : 4548379.3/47

In: 179.538 $\pm$ 0.026 χ^2/NDF : 3529556.5/44

Out: 189.805 $\pm$ 0.026 χ^2/NDF : 4509846.3/50

All: 184.601 $\pm$ 0.018 χ^2/NDF : 8118275.8/95

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -9.604 ± 62.554 χ^2/NDF : 11.8/21

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -18.403 ± 58.492 χ^2/NDF : 10.4/25

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

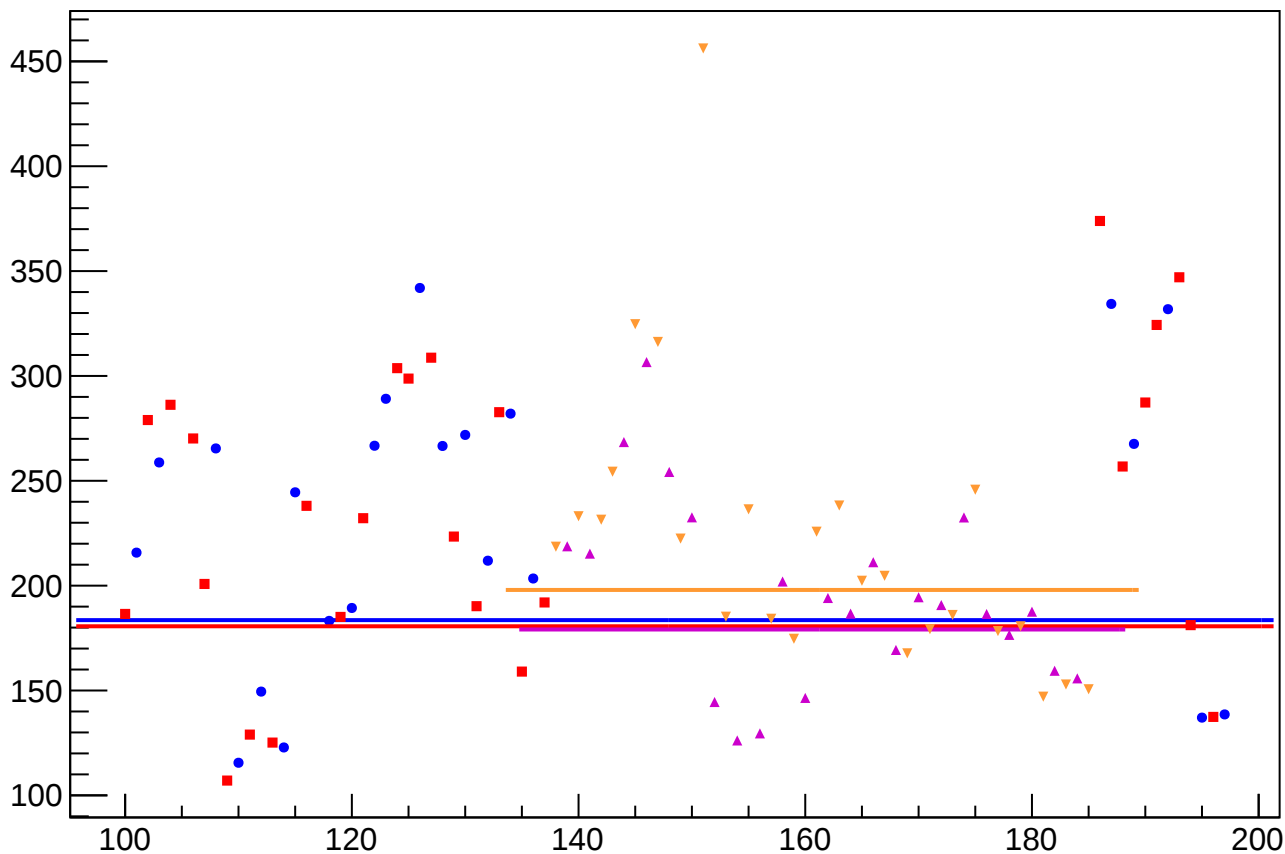
Right: -14.299 ± 42.724 χ^2/NDF : 22.1/47

In: 15.715 ± 36.519 χ^2/NDF : 18.9/44

Out: 0.642 ± 37.042 χ^2/NDF : 19.5/50

All: 8.286 ± 26.006 χ^2/NDF : 38.5/95

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 183.560 $\pm$ 0.044 χ^2/NDF : 1907367.7/21

Left Out: 197.953 $\pm$ 0.034 χ^2/NDF : 1774524.3/24

Right Out: 180.627 $\pm$ 0.041 χ^2/NDF : 2623529.1/25

Left In: 179.090 $\pm$ 0.032 χ^2/NDF : 1605113.3/22

Left: 187.936 $\pm$ 0.023 χ^2/NDF : 3544595.8/47

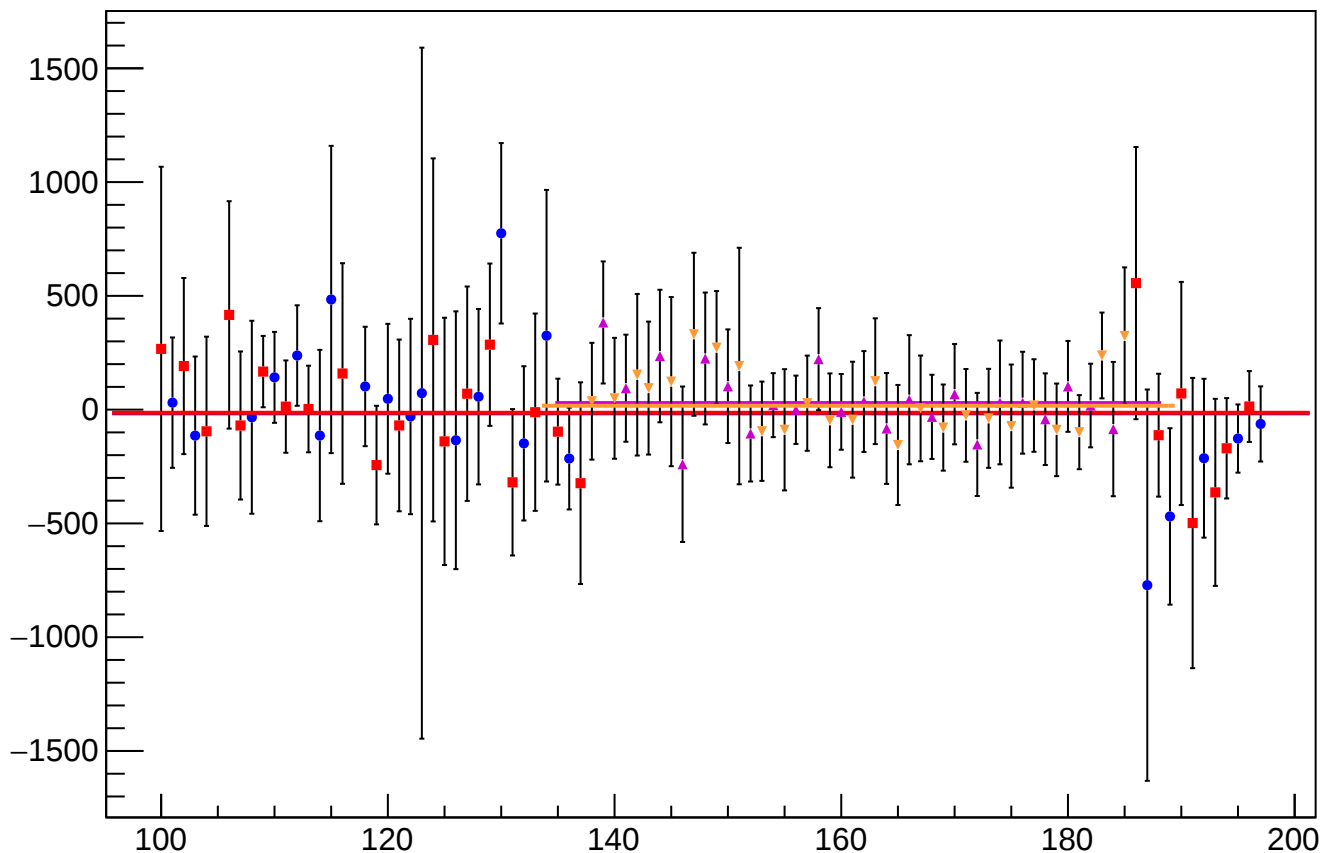
Right: 181.995 $\pm$ 0.030 χ^2/NDF : 4533242.7/47

In: 180.613 $\pm$ 0.026 χ^2/NDF : 3519214.6/44

Out: 191.005 $\pm$ 0.026 χ^2/NDF : 4503153.8/50

All: 185.735 $\pm$ 0.018 χ^2/NDF : 8102180.5/95

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -15.887 ± 62.603 $\chi^2/\text{NDF}: 11.3/21$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -13.798 ± 58.440 $\chi^2/\text{NDF}: 8.9/25$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

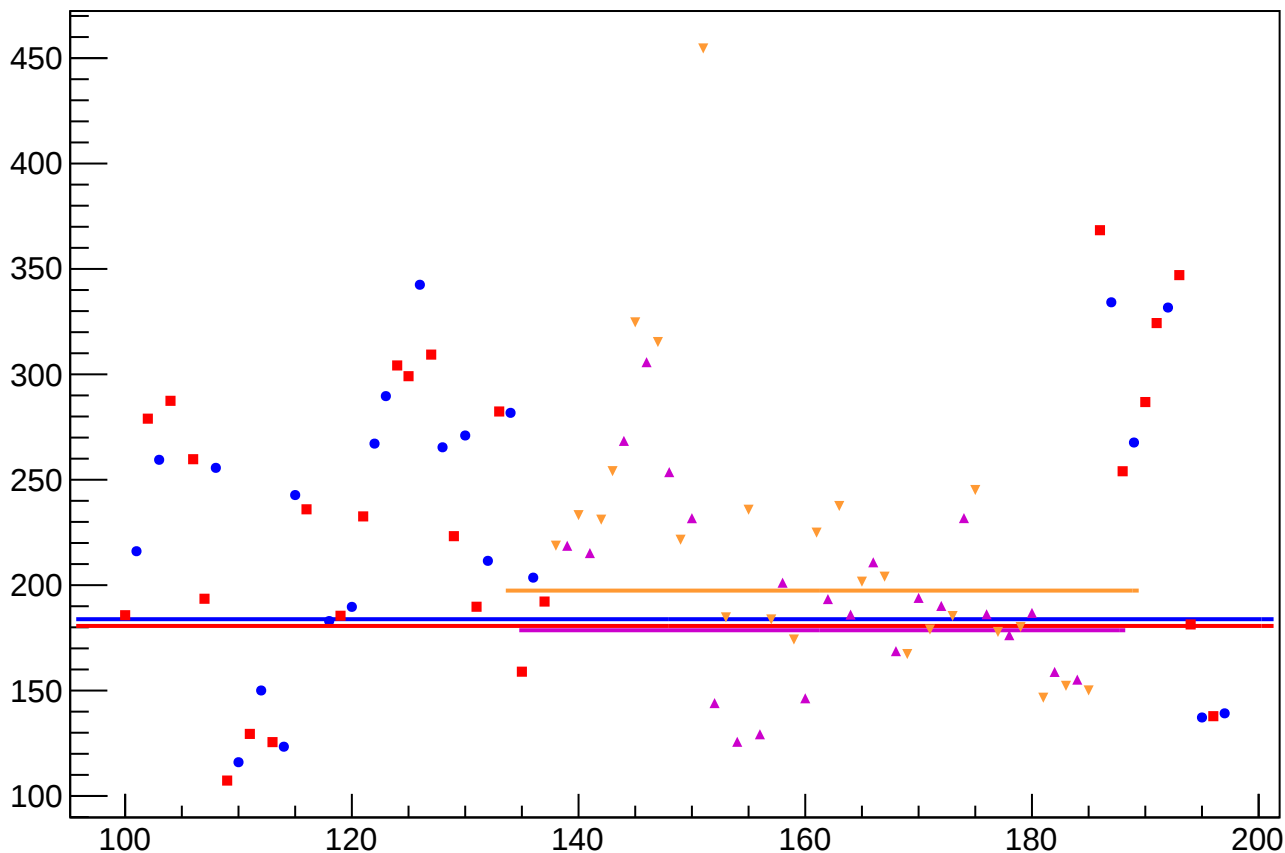
Right: -14.771 ± 42.720 $\chi^2/\text{NDF}: 20.2/47$

In: 13.544 ± 36.464 $\chi^2/\text{NDF}: 17.8/44$

Out: 4.759 ± 36.971 $\chi^2/\text{NDF}: 16.1/50$

All: 9.212 ± 25.961 $\chi^2/\text{NDF}: 33.9/95$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 183.853 $\pm$ 0.044 χ^2 /NDF: 1878992.3/21

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF: 1780261.9/24

Right Out: 180.653 $\pm$ 0.041 χ^2 /NDF: 2582313.5/25

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF: 1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

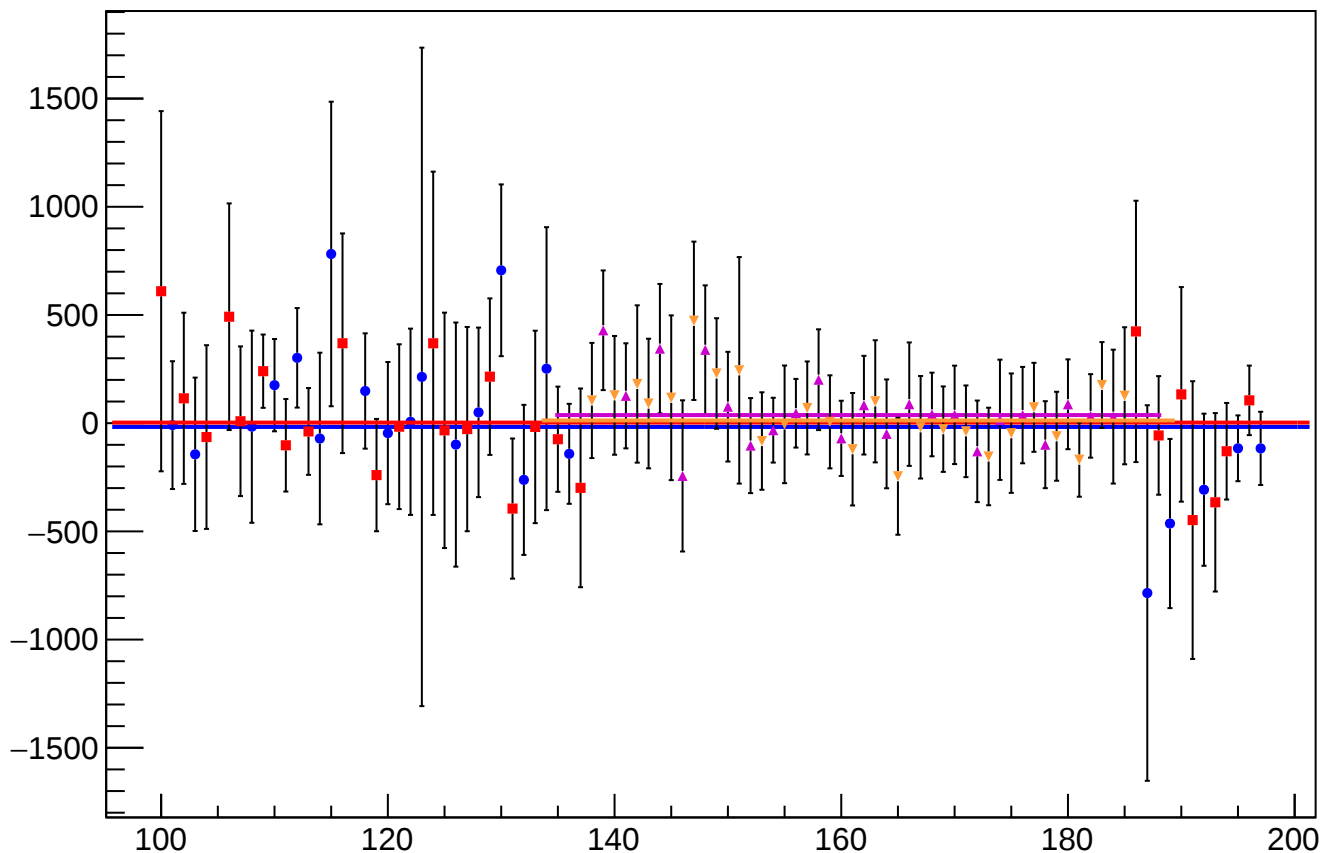
Right: 182.143 $\pm$ 0.030 χ^2 /NDF: 4464098.3/47

In: 180.383 $\pm$ 0.026 χ^2 /NDF: 3497288.7/44

Out: 190.710 $\pm$ 0.026 χ^2 /NDF: 4461344.6/50

All: 185.475 $\pm$ 0.018 χ^2 /NDF: 8037742.9/95

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -17.429 ± 64.213 χ^2/NDF : 12.5/21

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: 2.745 ± 60.497 χ^2/NDF : 10.4/25

Left In: 37.460 ± 46.479 χ^2/NDF : 7.6/22

Left: 25.762 ± 33.800 χ^2/NDF : 15.3/47

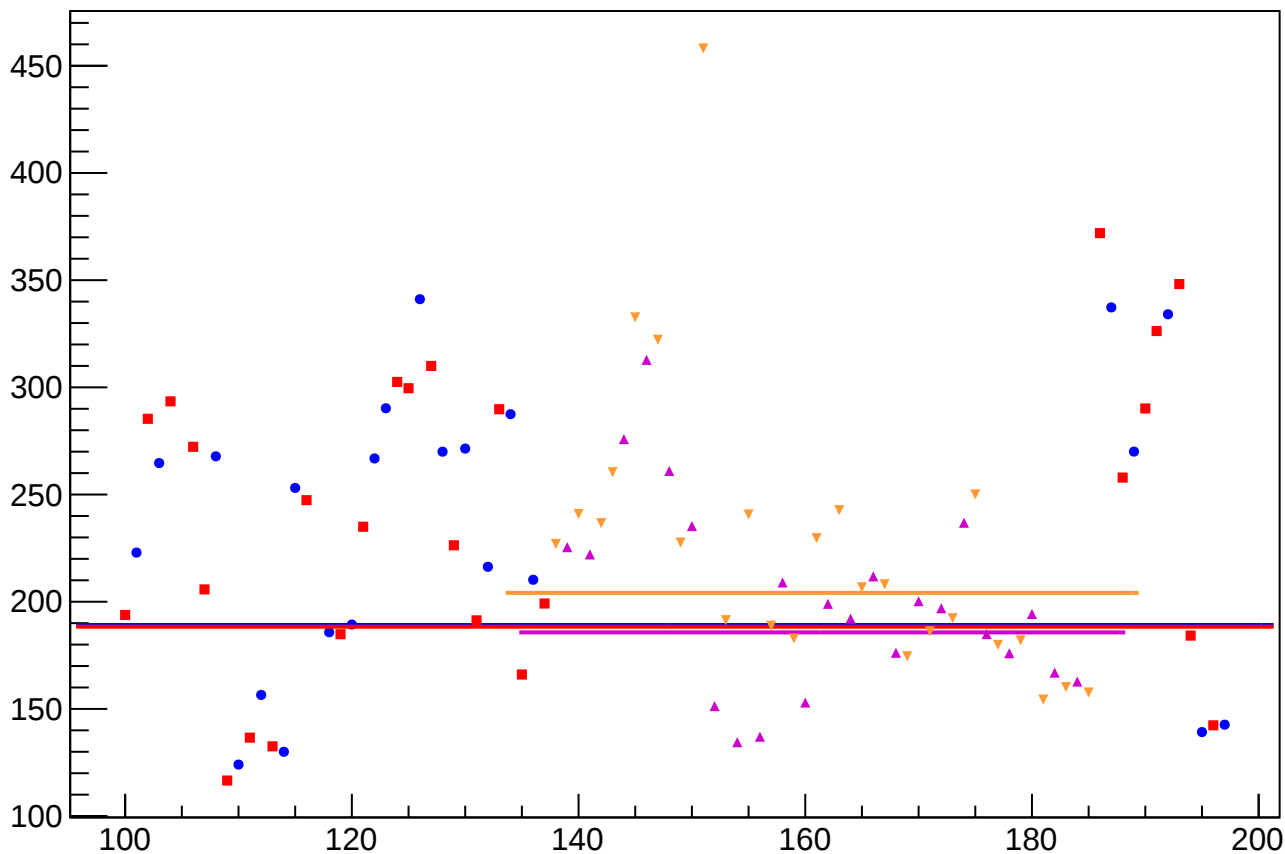
Right: -6.741 ± 44.033 χ^2/NDF : 22.9/47

In: 18.590 ± 37.651 χ^2/NDF : 20.6/44

Out: 8.692 ± 38.190 χ^2/NDF : 18.0/50

All: 13.711 ± 26.812 χ^2/NDF : 38.6/95

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 189.157 ± 0.045 χ^2/NDF : 1783259.4/21

Left Out: 204.132 ± 0.035 χ^2/NDF : 1672287.6/24

Right Out: 188.361 ± 0.043 χ^2/NDF : 2345948.0/25

Left In: 185.694 ± 0.033 χ^2/NDF : 1447767.0/22

Left: 194.381 ± 0.024 χ^2/NDF : 3268347.9/47

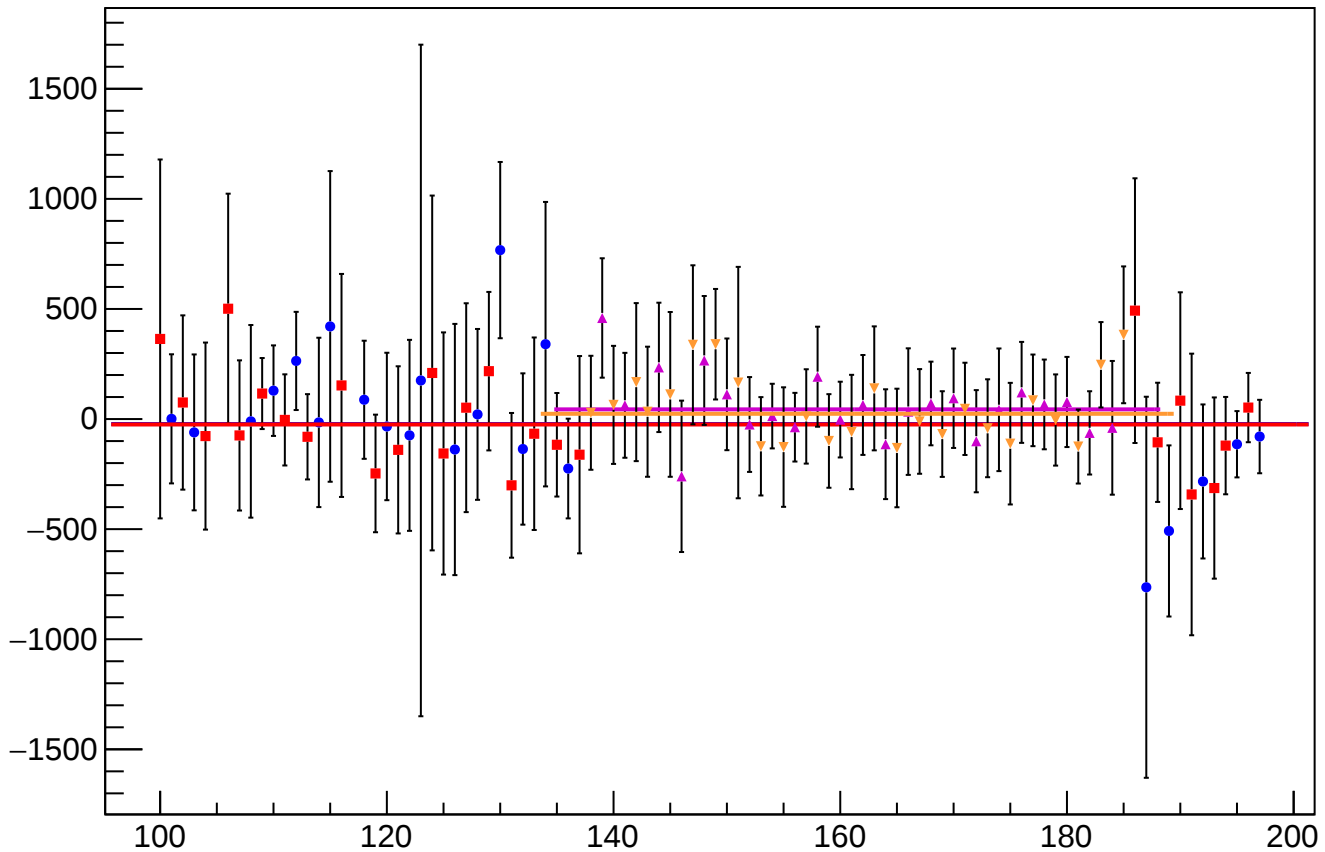
Right: 188.736 ± 0.031 χ^2/NDF : 4129370.1/47

In: 186.884 ± 0.027 χ^2/NDF : 3234844.6/44

Out: 197.847 ± 0.027 χ^2/NDF : 4099983.5/50

All: 192.288 ± 0.019 χ^2/NDF : 7418402.8/95

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -22.732 ± 63.436 χ^2/NDF : 11.3/21

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: -24.567 ± 59.415 χ^2/NDF : 6.7/25

Left In: 43.978 ± 45.981 χ^2/NDF : 6.5/22

Left: 34.506 ± 33.460 χ^2/NDF : 15.1/47

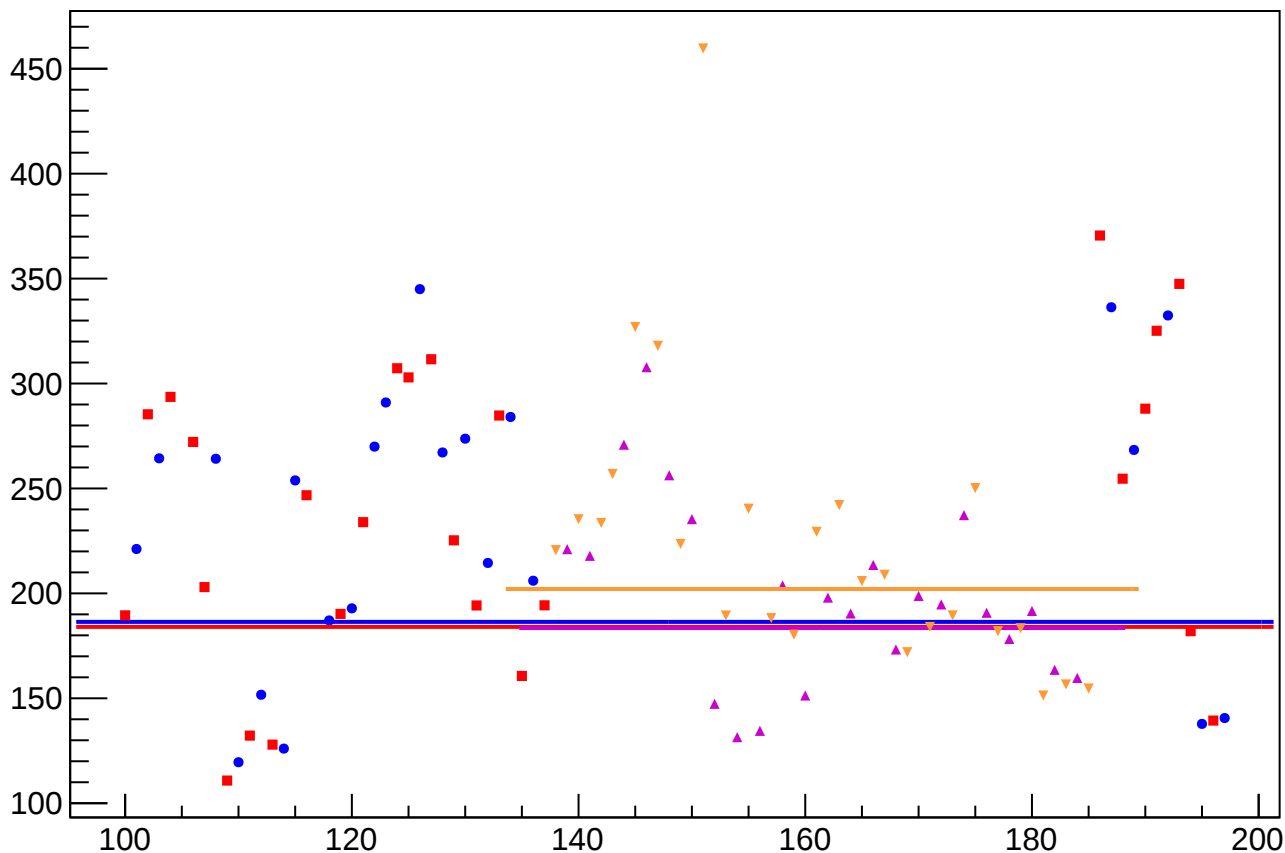
Right: -23.710 ± 43.365 χ^2/NDF : 18.0/47

In: 21.002 ± 37.229 χ^2/NDF : 18.6/44

Out: 4.349 ± 37.703 χ^2/NDF : 15.6/50

All: 12.781 ± 26.491 χ^2/NDF : 34.3/95

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 186.420 ± 0.045 $\chi^2/\text{NDF}: 1867390.1/21$

Left Out: 202.081 ± 0.034 $\chi^2/\text{NDF}: 1692787.9/24$

Right Out: 184.033 ± 0.042 $\chi^2/\text{NDF}: 2530810.2/25$

Left In: 183.498 ± 0.033 $\chi^2/\text{NDF}: 1483383.4/22$

Left: 192.240 ± 0.024 $\chi^2/\text{NDF}: 3329846.6/47$

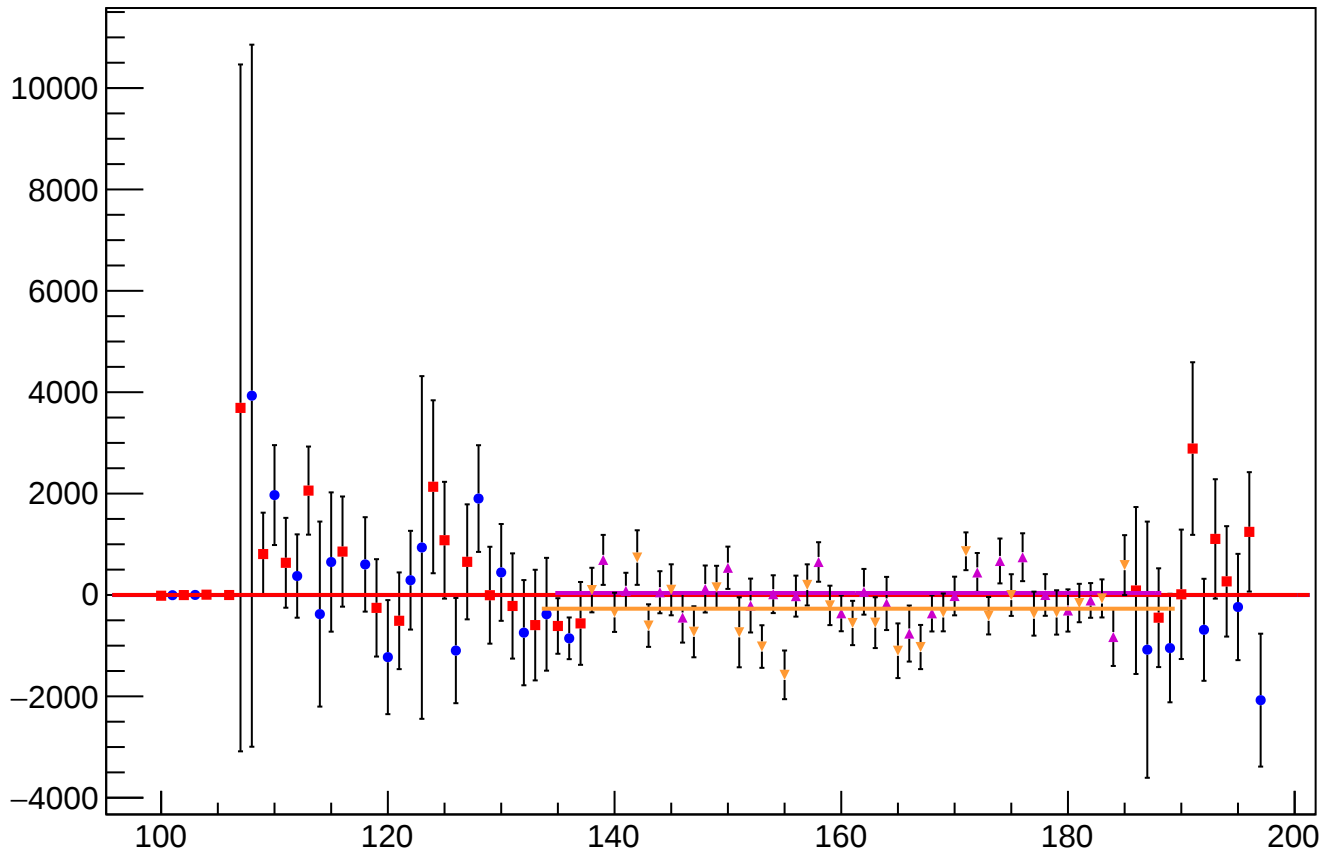
Right: 185.149 ± 0.031 $\chi^2/\text{NDF}: 4399708.5/47$

In: 184.505 ± 0.026 $\chi^2/\text{NDF}: 3353555.0/44$

Out: 194.813 ± 0.027 $\chi^2/\text{NDF}: 4333822.6/50$

All: 189.594 ± 0.019 $\chi^2/\text{NDF}: 7763083.5/95$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.546 ± 2.251 χ^2/NDF : 21.6/21

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.737 ± 2.111 χ^2/NDF : 24.3/25

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

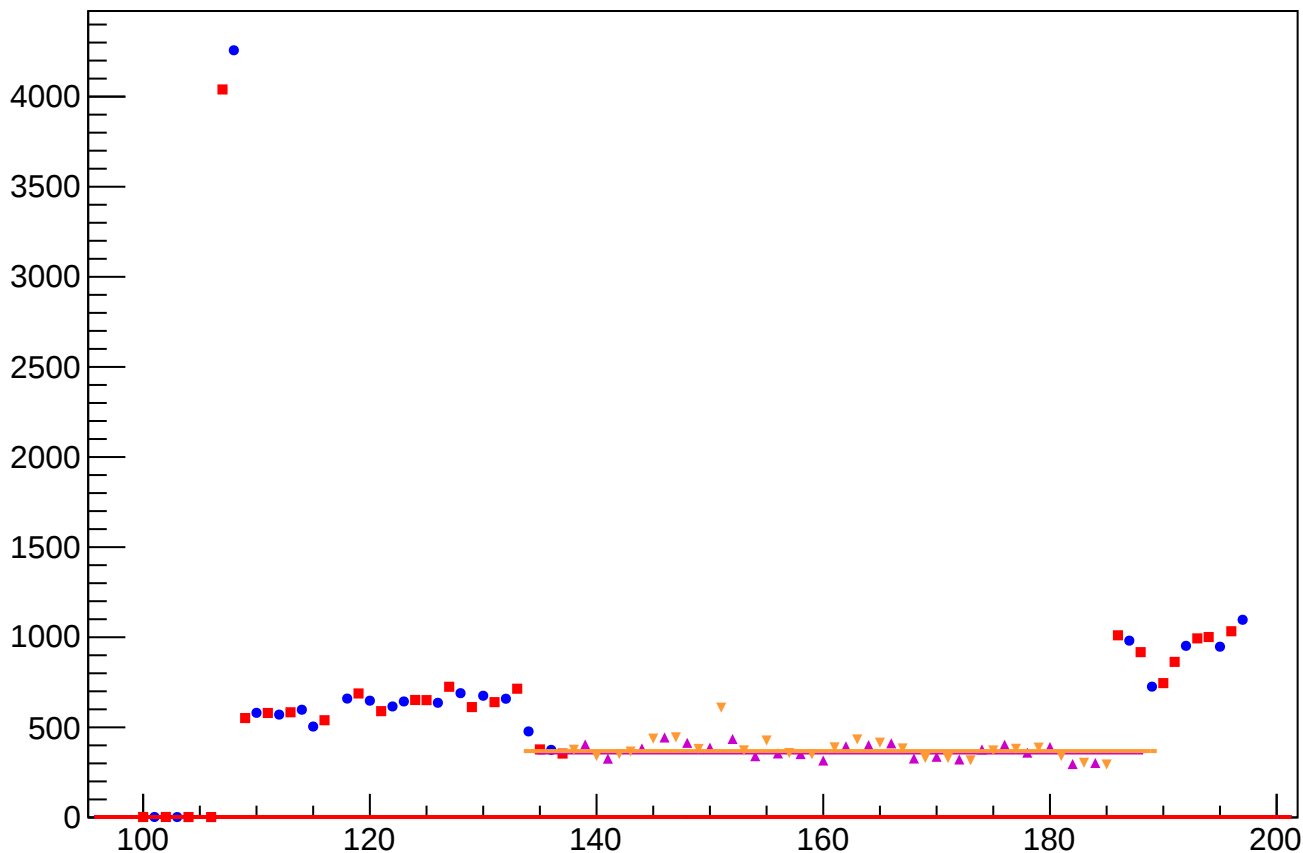
Right: -0.331 ± 1.540 χ^2/NDF : 46.4/47

In: -1.519 ± 2.251 χ^2/NDF : 42.0/44

Out: 0.577 ± 2.110 χ^2/NDF : 72.1/50

All: -0.404 ± 1.540 χ^2/NDF : 114.6/95

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.473+/-0.002 χ^2/NDF : 16823865.9/21

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.456+/-0.001 χ^2/NDF : 19434170.7/25

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

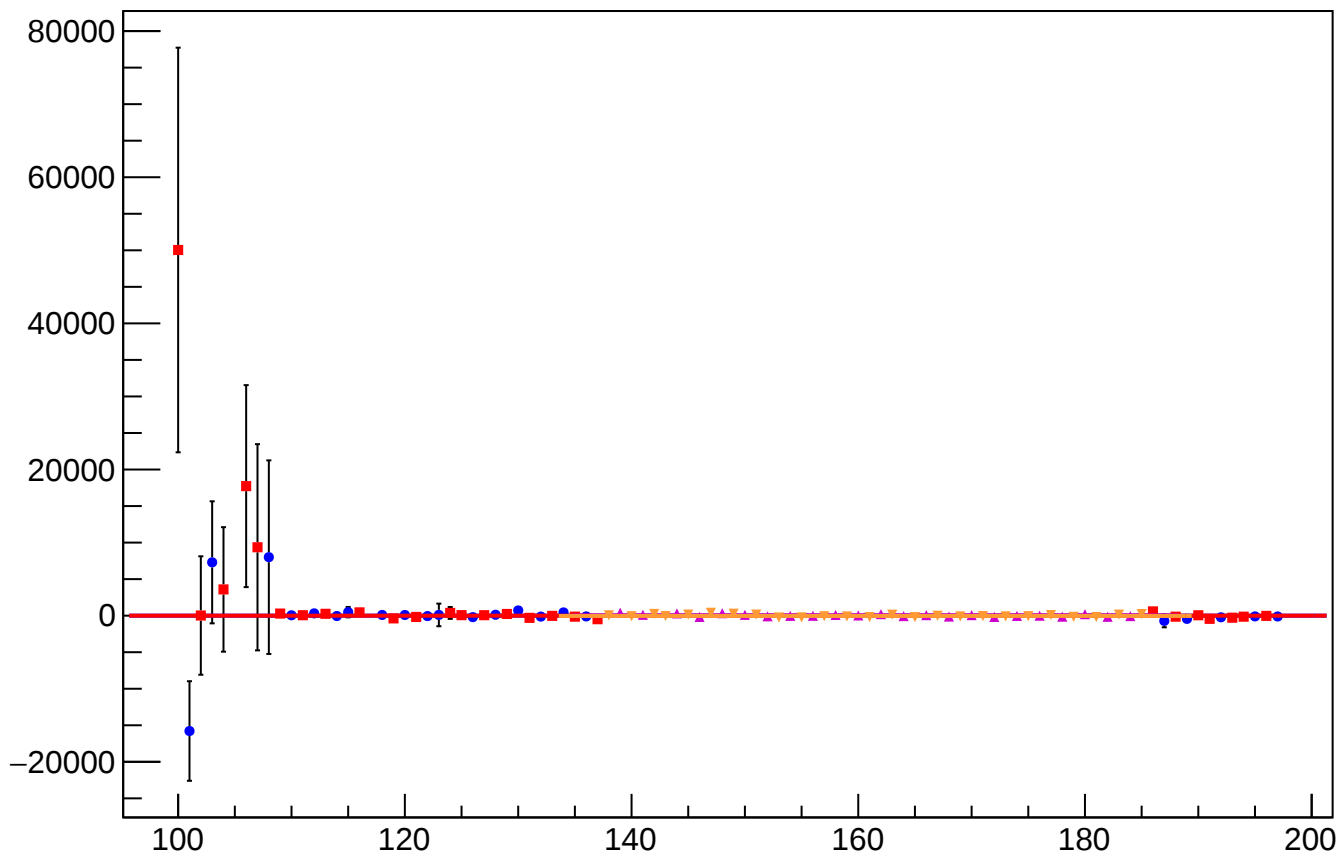
Right: 2.464+/-0.001 χ^2/NDF : 36258094.5/47

In: 2.708+/-0.002 χ^2/NDF : 50482059.5/44

Out: 2.672+/-0.001 χ^2/NDF : 55446913.2/50

All: 2.689+/-0.001 χ^2/NDF : 105929252.1/95

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -0.426 ± 70.382 $\chi^2/\text{NDF}: 16.2/21$

Left Out: -38.013 ± 49.628 $\chi^2/\text{NDF}: 9.3/24$

Right Out: -2.678 ± 67.881 $\chi^2/\text{NDF}: 16.7/25$

Left In: 28.205 ± 48.167 $\chi^2/\text{NDF}: 9.2/22$

Left: -3.915 ± 34.564 $\chi^2/\text{NDF}: 19.4/47$

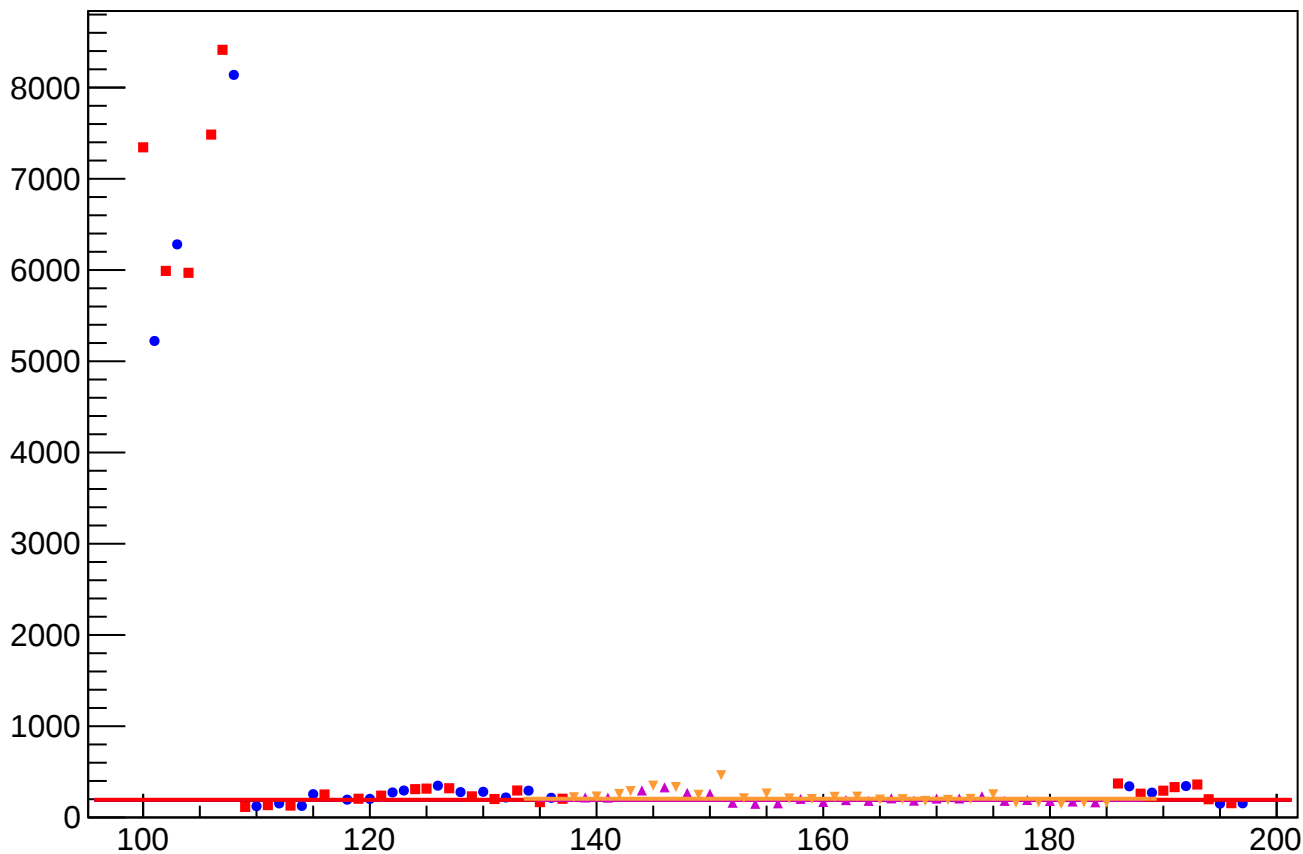
Right: -1.592 ± 48.860 $\chi^2/\text{NDF}: 32.8/47$

In: 19.073 ± 39.750 $\chi^2/\text{NDF}: 25.5/44$

Out: -25.705 ± 40.063 $\chi^2/\text{NDF}: 26.1/50$

All: -3.140 ± 28.217 $\chi^2/\text{NDF}: 52.2/95$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 191.652+/-0.050 χ^2/NDF : 4398923.7/21

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 193.514+/-0.048 χ^2/NDF : 5226175.6/25

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

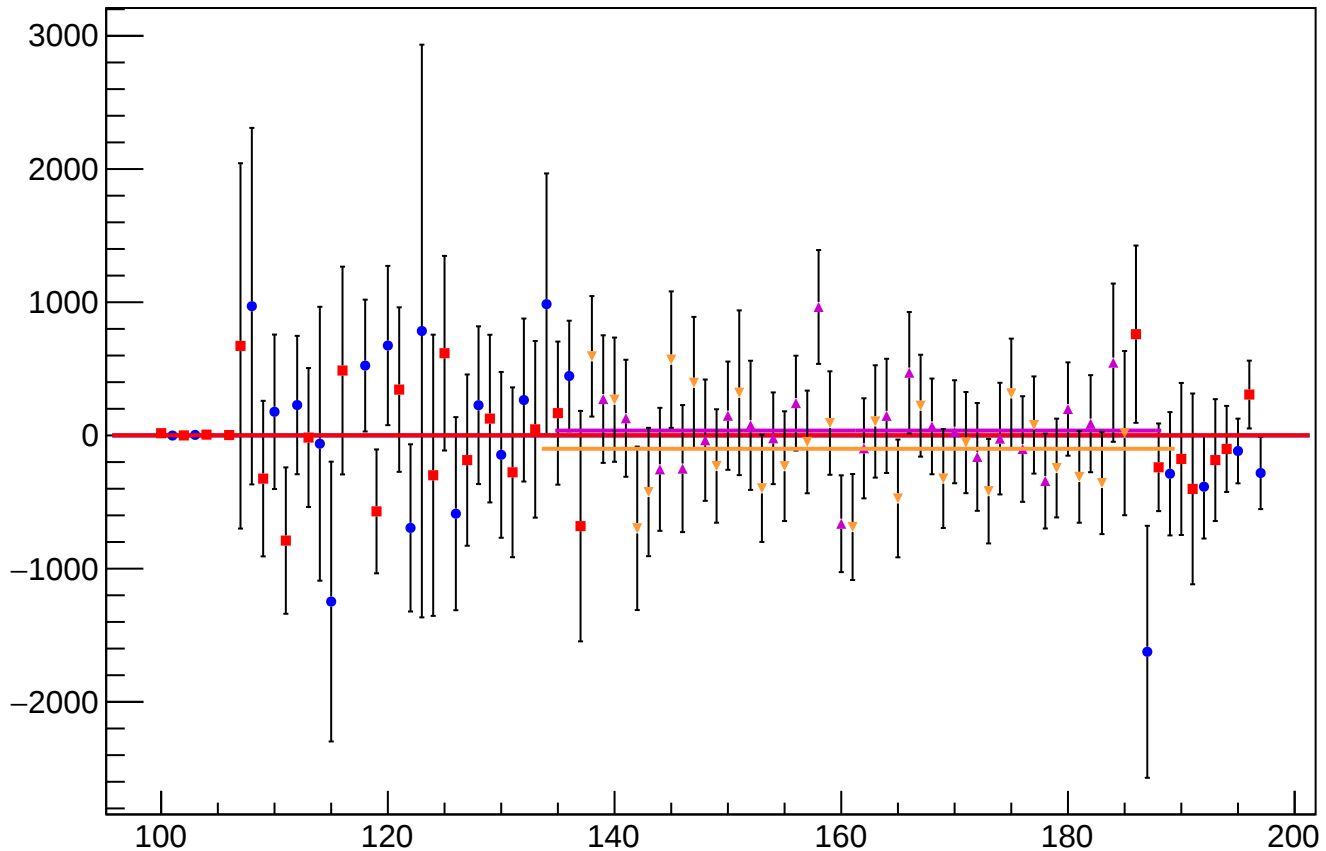
Right: 192.617+/-0.035 χ^2/NDF : 9625825.0/47

In: 192.846+/-0.028 χ^2/NDF :5571938.0/44

Out: 201.017+/-0.028 χ^2/NDF :7219709.6/50

All: 196.899+/-0.020 χ^2/NDF : 12833573.7/95

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.174 ± 1.736 χ^2/NDF : 15.7/21

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.325 ± 1.622 χ^2/NDF : 13.3/25

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

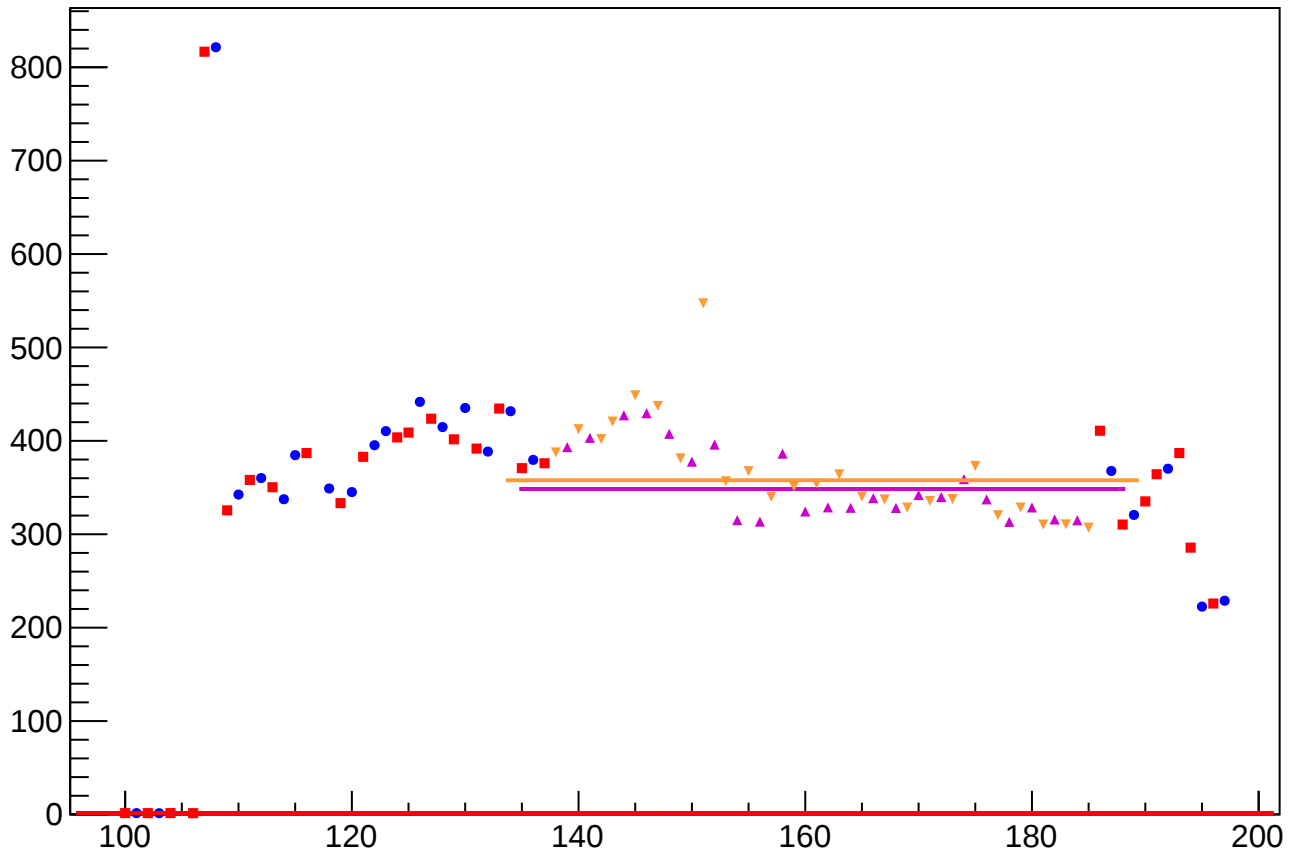
Right: 0.626 ± 1.186 χ^2/NDF : 29.4/47

In: -0.159 ± 1.736 χ^2/NDF : 29.4/44

Out: 1.288 ± 1.622 χ^2/NDF : 30.5/50

All: 0.613 ± 1.185 χ^2/NDF : 60.2/95

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.486 $\pm$ 0.001 χ^2 /NDF: 17024820.9/21

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.487 $\pm$ 0.001 χ^2 /NDF: 19077087.2/25

Left In: 348.464 $\pm$ 0.060 χ^2 /NDF: 360425.7/22

Left: 353.145 $\pm$ 0.042 χ^2 /NDF: 919701.2/47

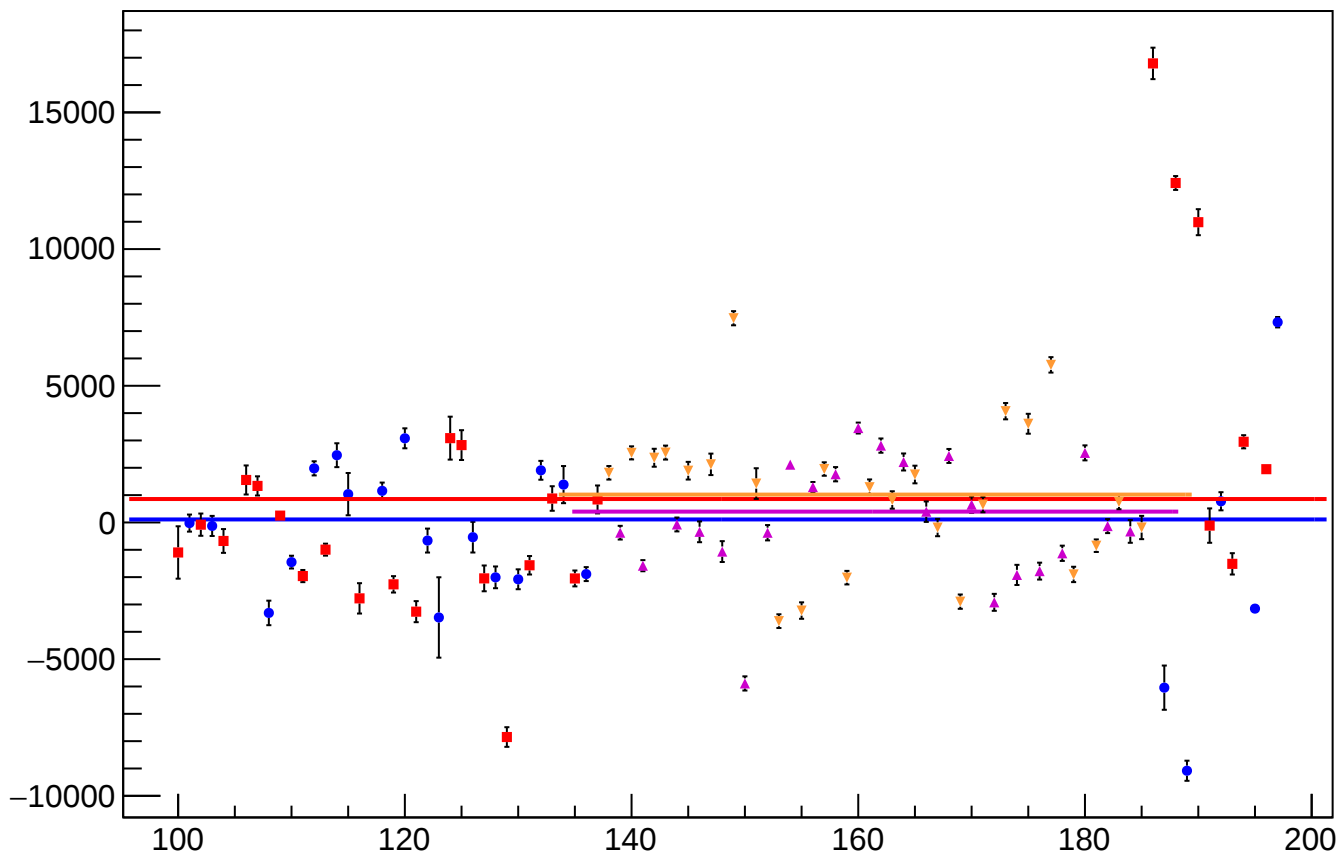
Right: 1.486 $\pm$ 0.001 χ^2 /NDF: 36101908.1/47

In: 1.632 $\pm$ 0.001 χ^2 /NDF: 50954161.4/44

Out: 1.619 $\pm$ 0.001 χ^2 /NDF: 55429257.0/50

All: 1.625 $\pm$ 0.001 χ^2 /NDF: 106383481.5/95

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 110.427 ± 69.510 χ^2/NDF : 2884.2/21

Left Out: 1018.965 ± 57.402 χ^2/NDF : 2310.1/24

Right Out: 857.214 ± 64.281 χ^2/NDF : 4772.7/25

Left In: 396.609 ± 55.090 χ^2/NDF : 1581.0/22

Left: 695.002 ± 39.747 χ^2/NDF : 3952.3/47

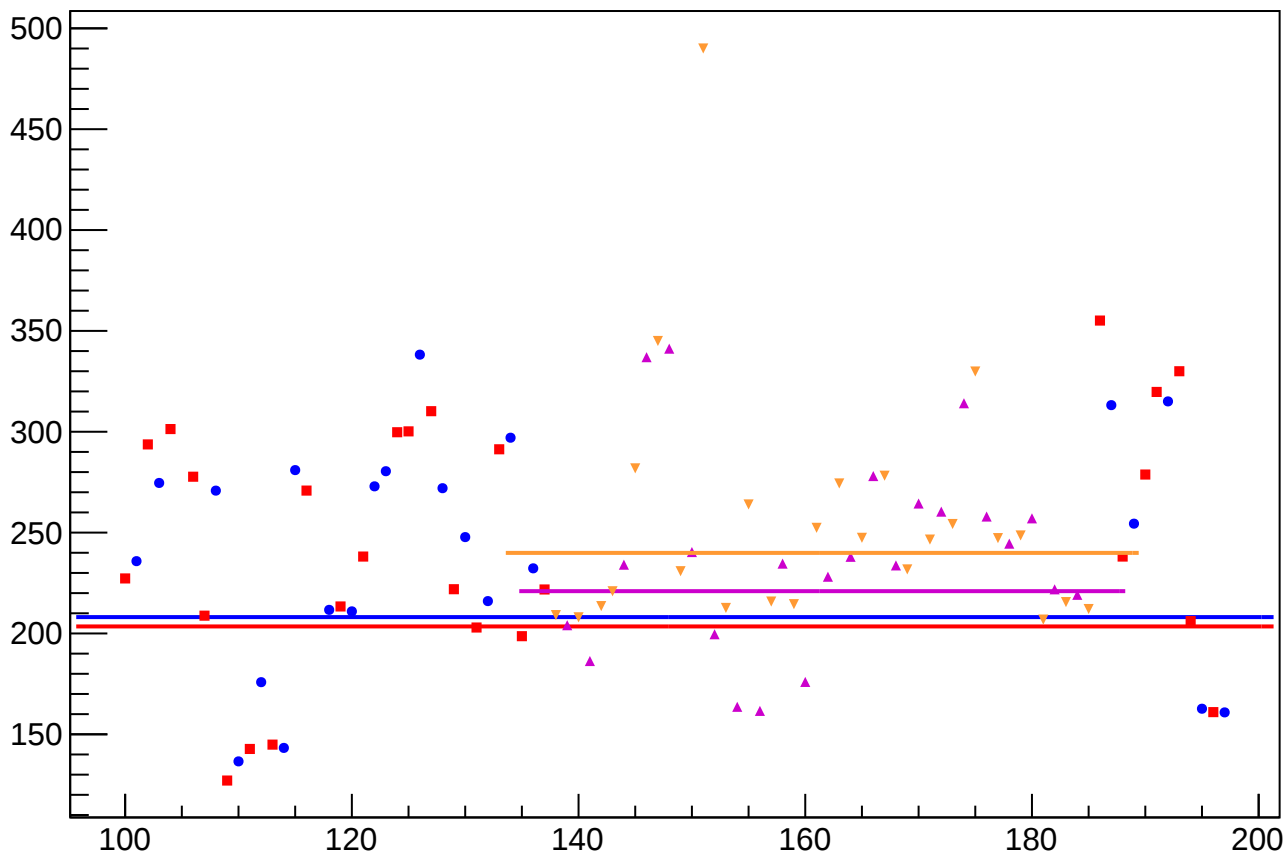
Right: 512.964 ± 47.194 χ^2/NDF : 7719.1/47

In: 286.201 ± 43.175 χ^2/NDF : 4475.7/44

Out: 947.205 ± 42.816 χ^2/NDF : 7086.3/50

All: 619.463 ± 30.401 χ^2/NDF : 11680.1/95

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 208.110 ± 0.049 $\chi^2/\text{NDF}: 1212247.2/21$

Left Out: 239.942 ± 0.041 $\chi^2/\text{NDF}: 1000770.0/24$

Right Out: 203.479 ± 0.045 $\chi^2/\text{NDF}: 1820960.9/25$

Left In: 220.972 ± 0.039 $\chi^2/\text{NDF}: 1327680.6/22$

Left: 230.067 ± 0.028 $\chi^2/\text{NDF}: 2442154.9/47$

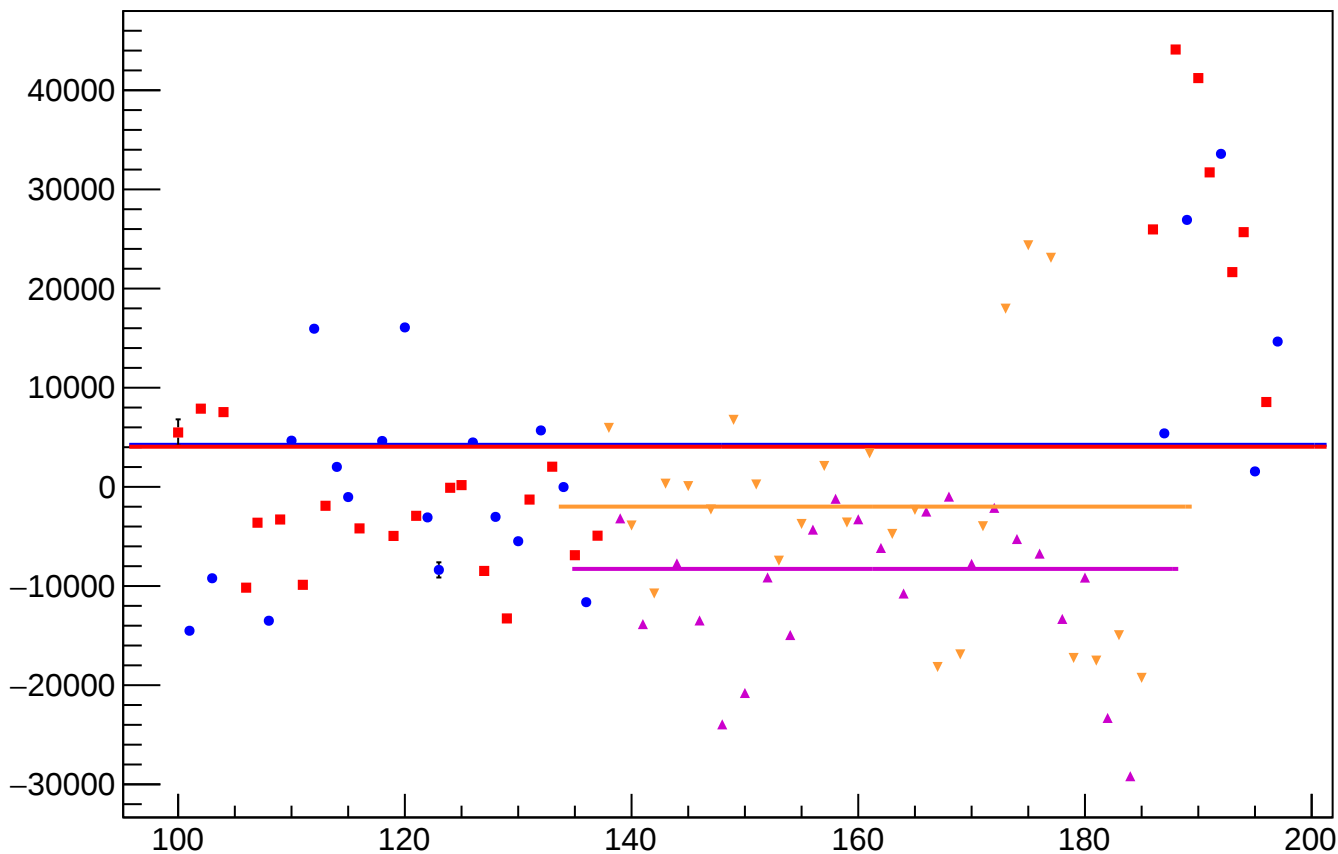
Right: 205.614 ± 0.033 $\chi^2/\text{NDF}: 3037991.8/47$

In: 216.010 ± 0.031 $\chi^2/\text{NDF}: 2581985.4/44$

Out: 223.765 ± 0.030 $\chi^2/\text{NDF}: 3179746.3/50$

All: 219.920 ± 0.021 $\chi^2/\text{NDF}: 5794271.6/95$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 4240.789+/-48.060 χ^2/NDF : 70934.3/21

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 4049.137+/-44.802 χ^2/NDF : 126987.7/25

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

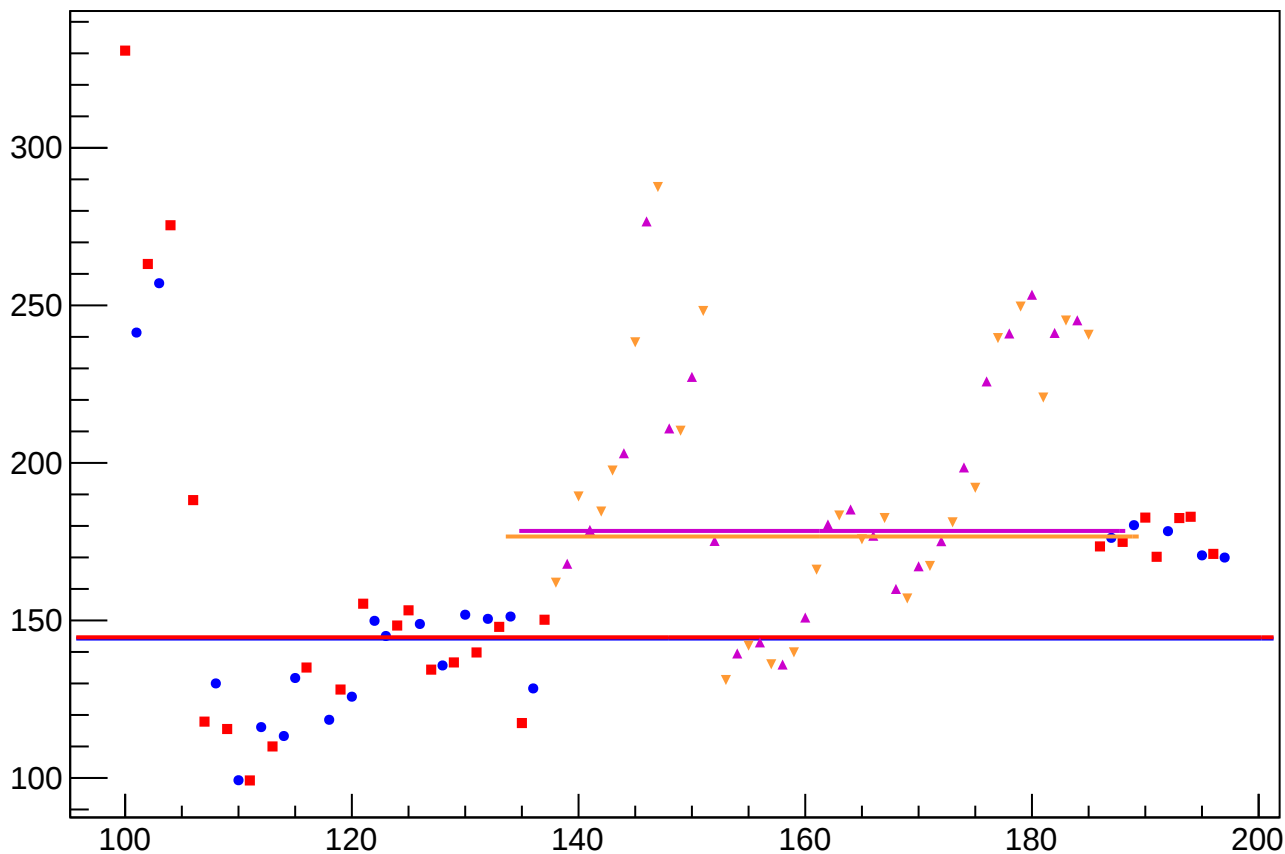
Right: 4138.247+/-32.771 χ^2/NDF : 197930.6/47

In: -2524.718+/-32.574 χ^2/NDF : 130458.5/44

Out: 864.281+/-30.806 χ^2/NDF : 200339.3/50

All: -735.761+/-22.382 χ^2/NDF : 336511.8/95

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 144.251+/-0.034 χ^2/NDF : 899396.0/21

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 144.652+/-0.032 χ^2/NDF : 1221837.7/25

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

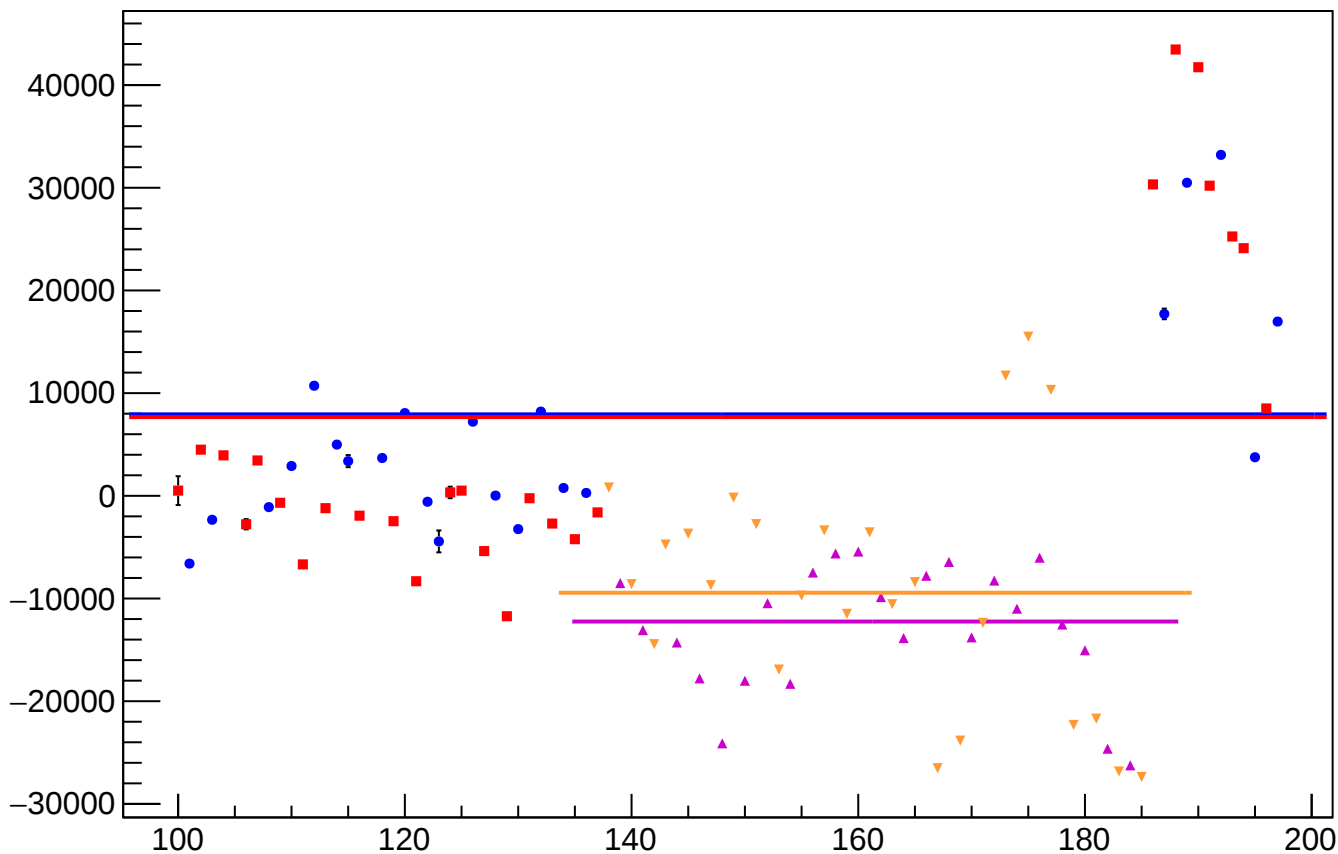
Right: 144.466+/-0.023 χ^2/NDF : 2121308.3/47

In: 162.720+/-0.023 χ^2/NDF :2739449.1/44

Out: 161.517+/-0.022 χ^2/NDF :3310411.7/50

All: 162.085+/-0.016 χ^2/NDF : 6051301.7/95

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7932.653+/-58.102 χ^2/NDF : 33338.7/21

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 7667.264+/-53.252 χ^2/NDF : 95981.8/25

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

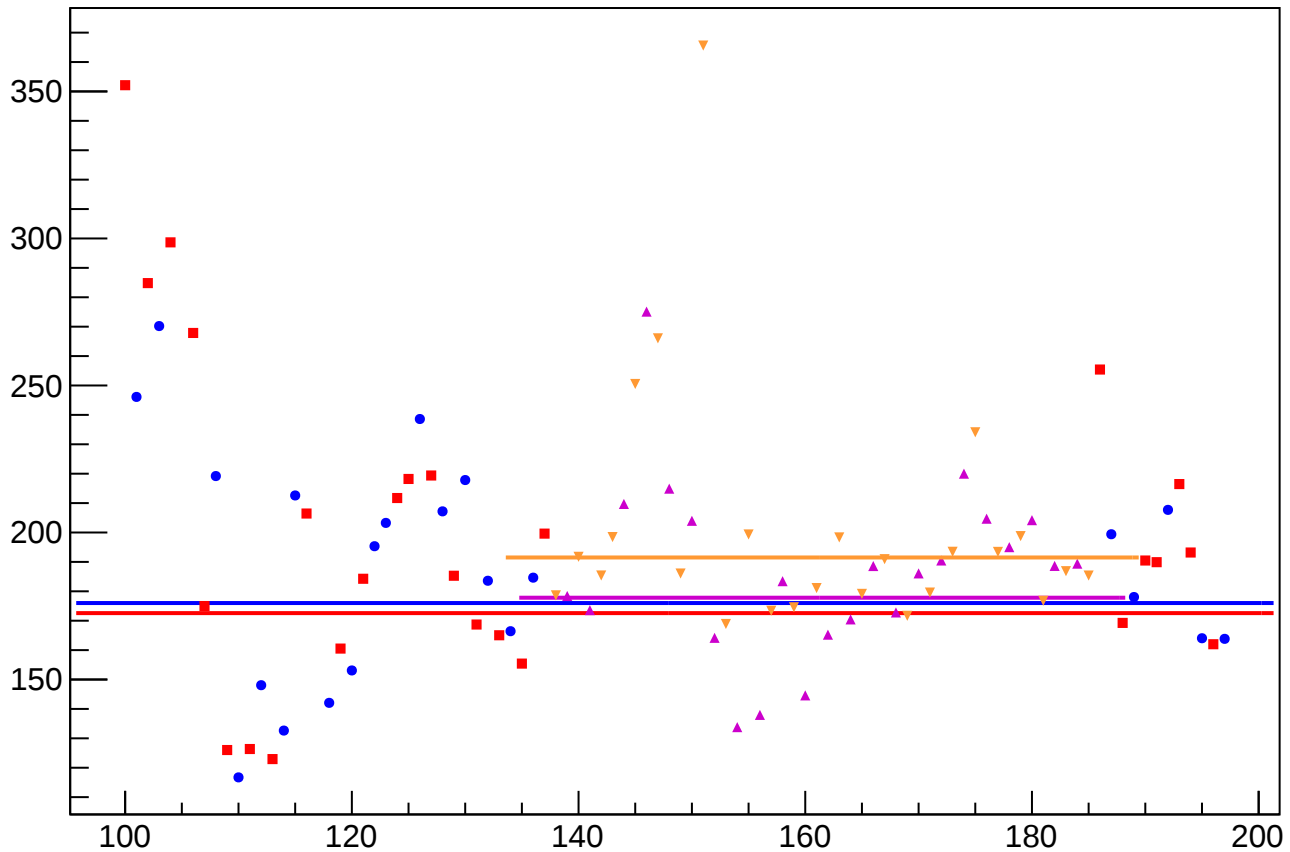
Right: 7788.421+/-39.258 χ^2/NDF : 129331.8/47

In: -4901.001+/-35.049 χ^2/NDF : 126650.3/44

Out: -2213.304+/-34.608 χ^2/NDF : 217798.7/50

All: -3540.132+/-24.626 χ^2/NDF : 347426.5/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.010 ± 0.041 $\chi^2/\text{NDF}: 750925.5/21$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 172.584 ± 0.038 $\chi^2/\text{NDF}: 1119819.8/25$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

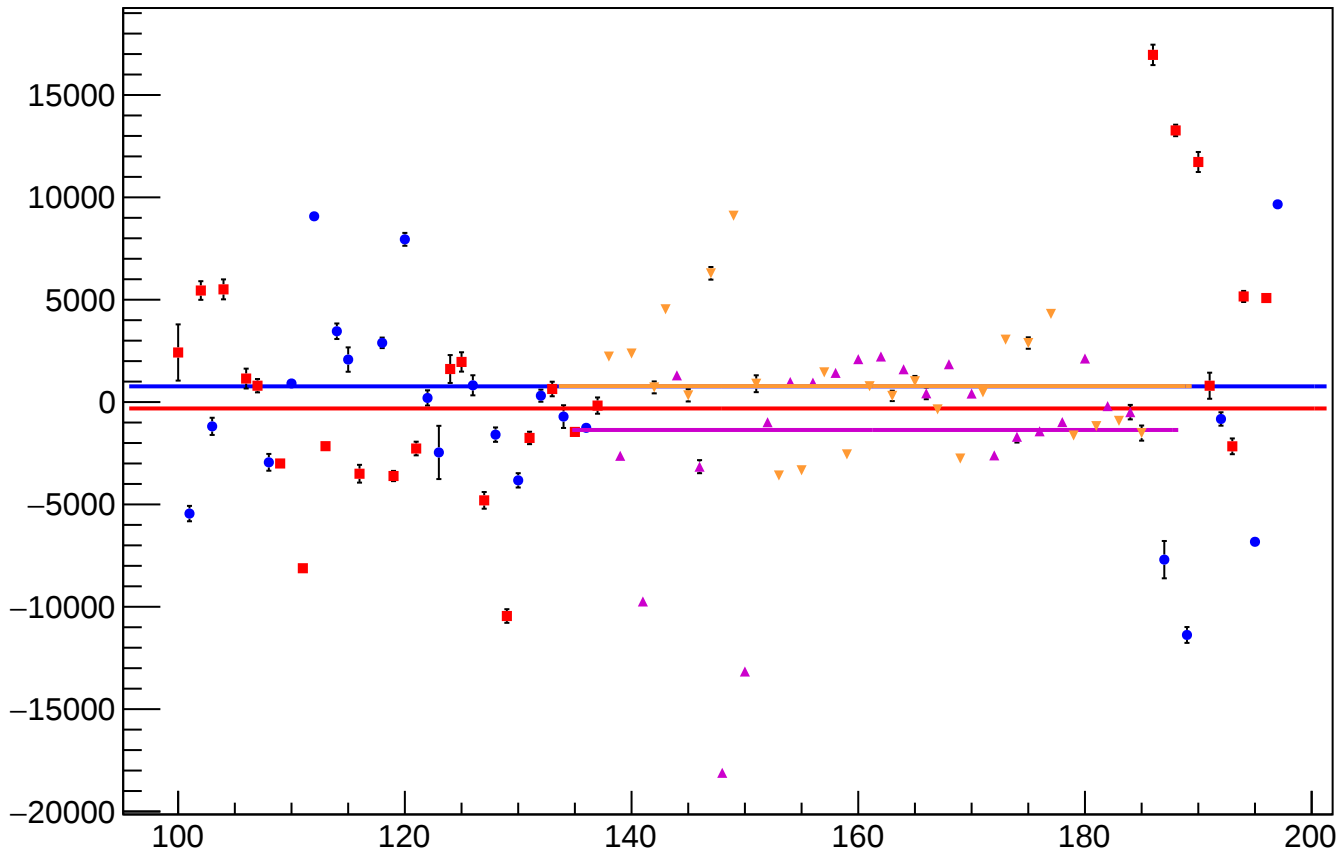
Right: 174.148 ± 0.028 $\chi^2/\text{NDF}: 1874525.5/47$

In: 177.162 ± 0.025 $\chi^2/\text{NDF}: 1614656.1/44$

Out: 183.515 ± 0.024 $\chi^2/\text{NDF}: 1992951.4/50$

All: 180.379 ± 0.017 $\chi^2/\text{NDF}: 3640872.0/95$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 767.204+/-65.545 χ^2/NDF : 7071.7/21

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -312.459+/-60.525 χ^2/NDF : 9002.5/25

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

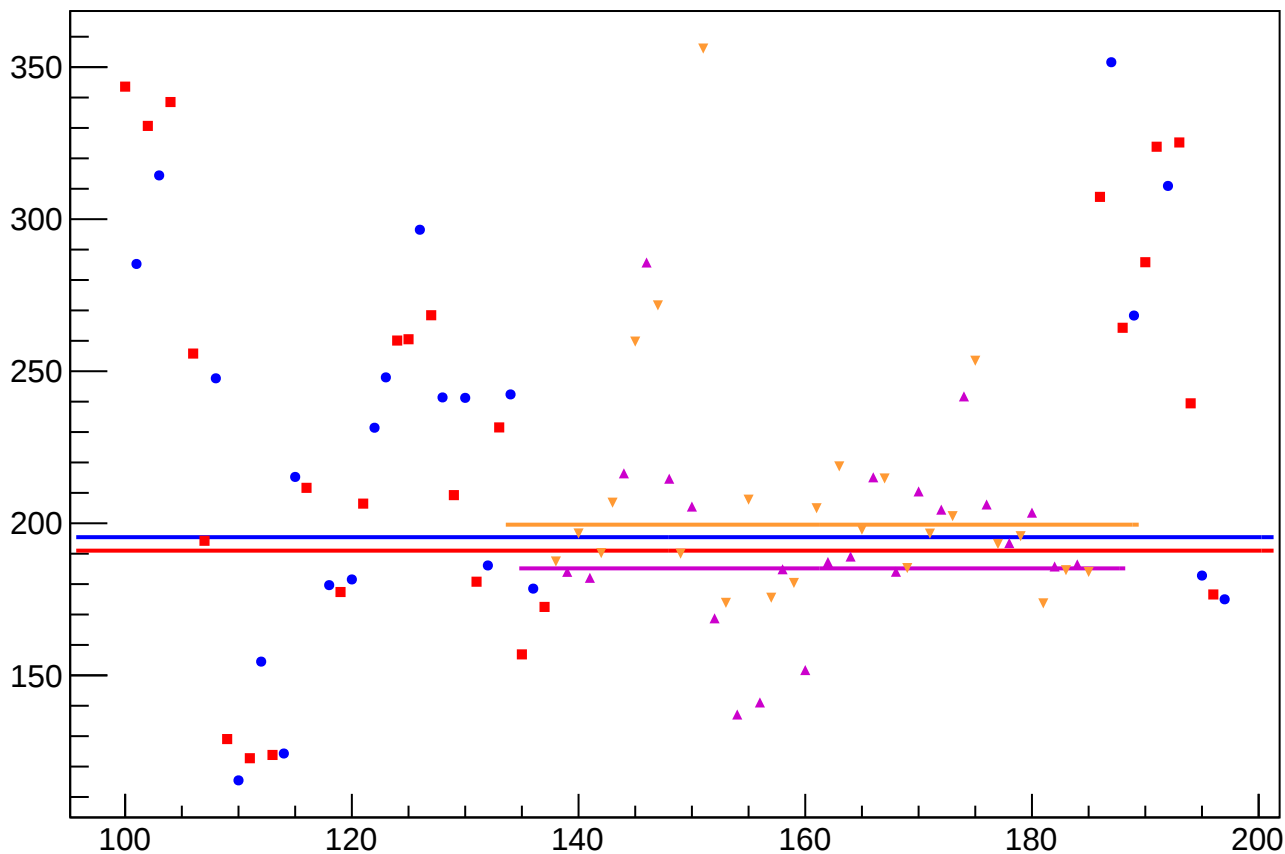
Right: 184.447+/-44.467 χ^2/NDF : 16220.7/47

In: -664.031+/-37.546 χ^2/NDF : 19414.3/44

Out: 364.058+/-37.346 χ^2/NDF : 13465.0/50

All: -147.234+/-26.478 χ^2/NDF : 33256.2/95

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 195.435 +/- 0.046 χ^2/NDF : 1394457.9/21

Left Out: 199.547 +/- 0.034 χ^2/NDF : 729356.3/24

Right Out: 191.002 +/- 0.043 χ^2/NDF : 2124066.6/25

Left In: 185.171 +/- 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 +/- 0.023 χ^2/NDF : 1707122.0/47

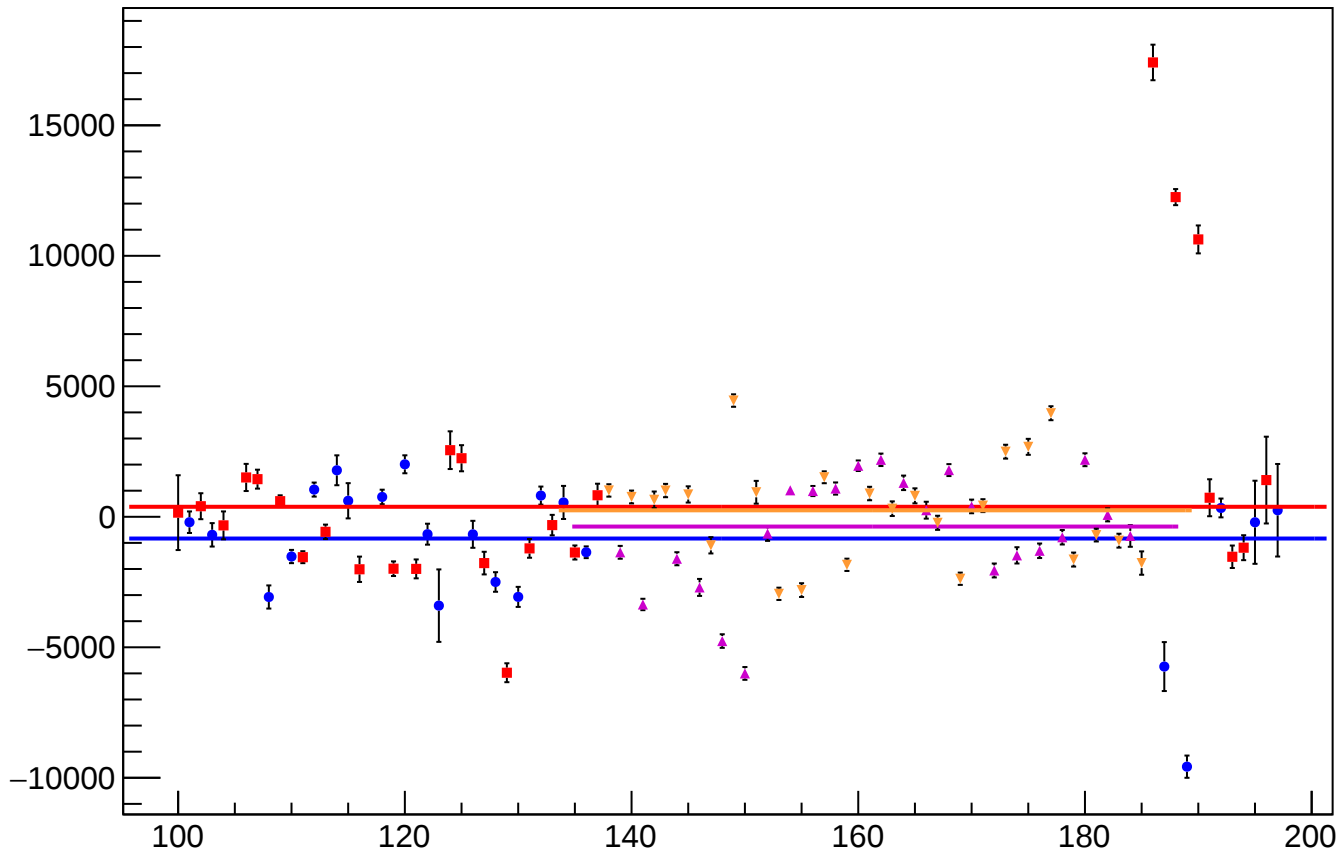
Right: 193.042 +/- 0.031 χ^2/NDF : 3523461.6/47

In: 188.539 +/- 0.027 χ^2/NDF : 2310162.6/44

Out: 196.294 +/- 0.026 χ^2/NDF : 2878106.8/50

All: 192.437 +/- 0.019 χ^2/NDF : 5231158.1/95

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -832.754 ± 83.944 $\chi^2/\text{NDF}: 760.0/21$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 383.667 ± 75.340 $\chi^2/\text{NDF}: 3162.2/25$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

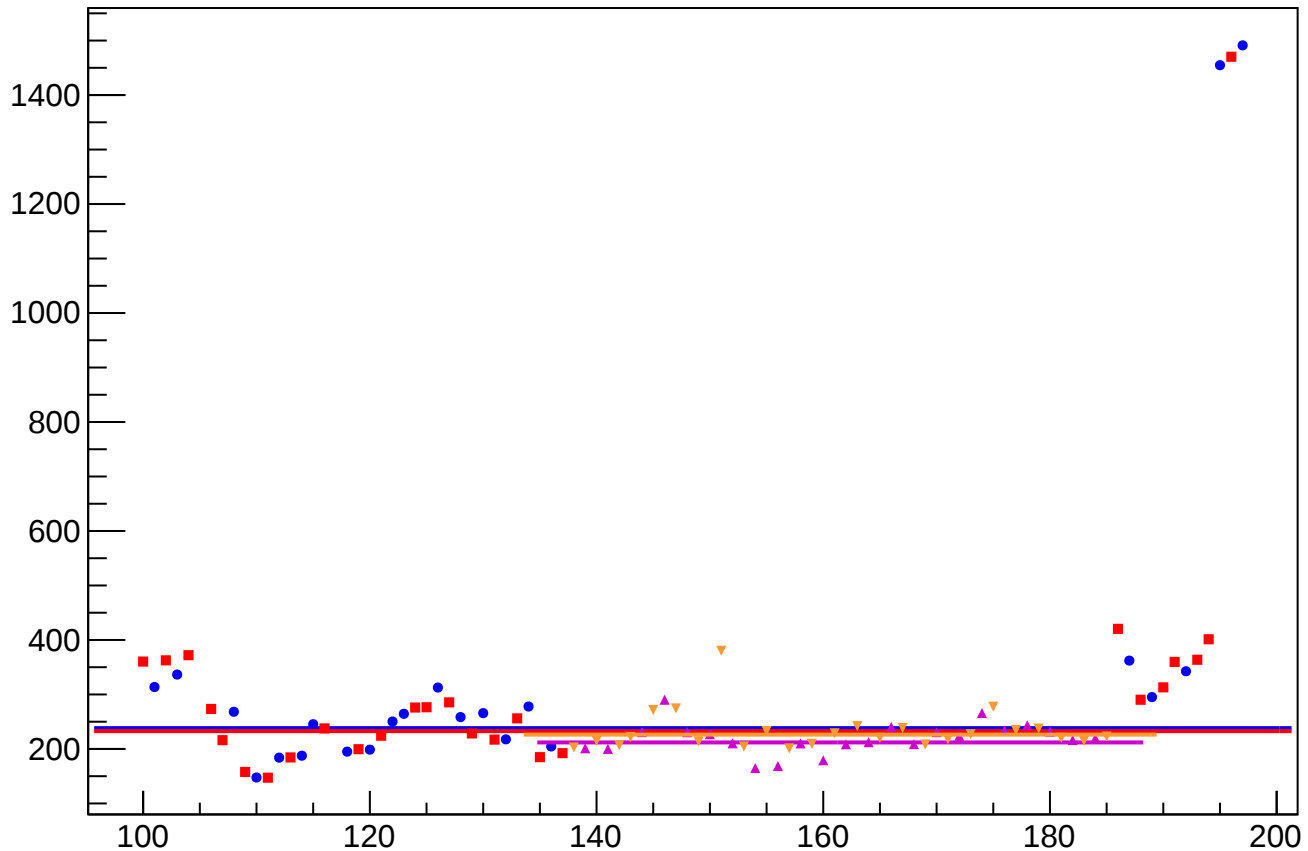
Right: -159.022 ± 56.069 $\chi^2/\text{NDF}: 4038.4/47$

In: -501.481 ± 44.236 $\chi^2/\text{NDF}: 2582.6/44$

Out: 293.437 ± 43.650 $\chi^2/\text{NDF}: 4519.4/50$

All: -98.727 ± 31.070 $\chi^2/\text{NDF}: 7265.6/95$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 238.192+/-0.059 χ^2/NDF : 3123082.0/21

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 232.680+/-0.053 χ^2/NDF : 2913252.4/25

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

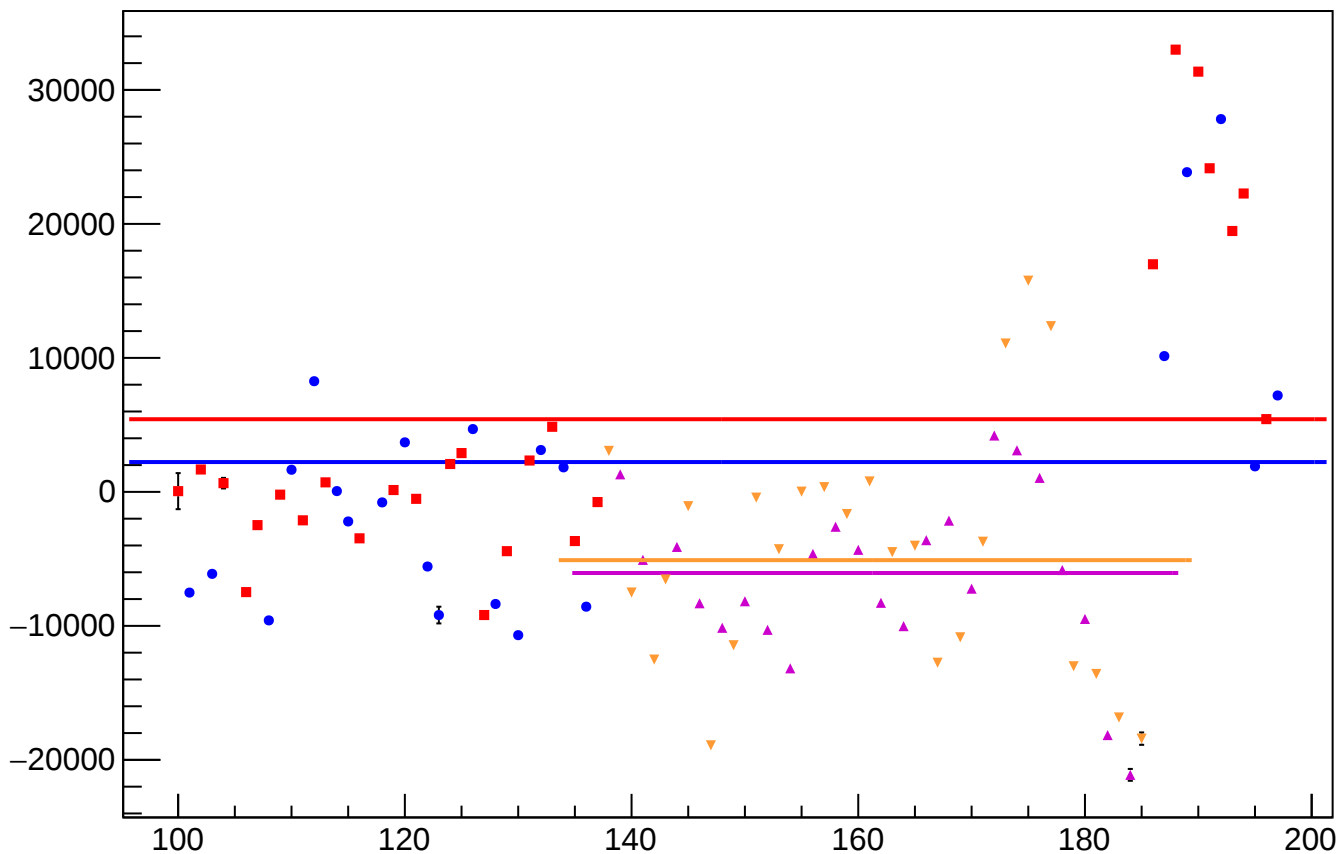
Right: 235.139+/-0.040 χ^2/NDF : 6041110.4/47

In: 219.252+/-0.031 χ^2/NDF : 3848385.0/44

Out: 228.456+/-0.031 χ^2/NDF : 3443757.1/50

All: 223.915+/-0.022 χ^2/NDF : 7336014.0/95

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 2226.329+/-40.889 χ^2/NDF : 67216.7/21

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5422.762+/-37.754 χ^2/NDF : 99652.5/25

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

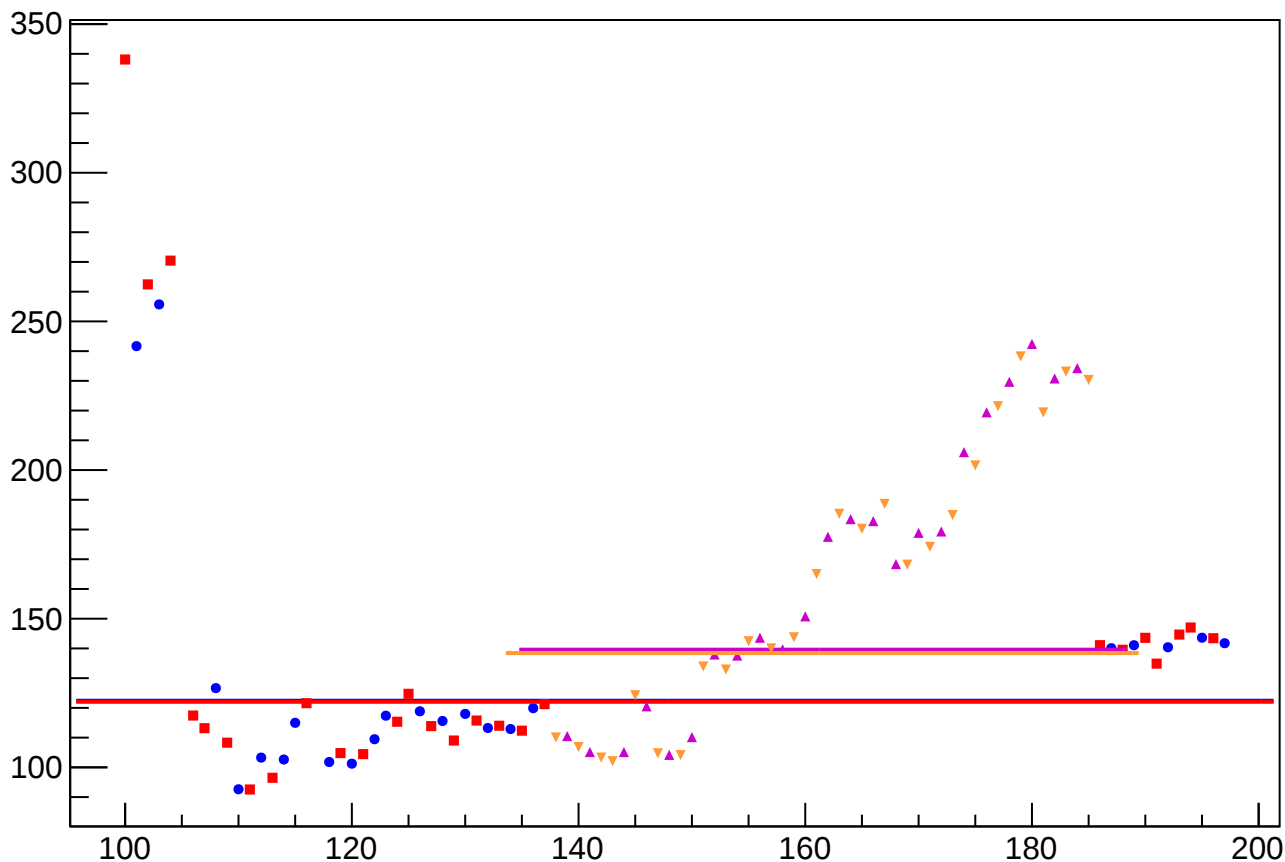
Right: 3951.771+/-27.739 χ^2/NDF : 170167.9/47

In: -2552.565+/-26.589 χ^2/NDF : 108473.3/44

Out: -430.609+/-25.143 χ^2/NDF : 197240.6/50

All: -1432.319+/-18.268 χ^2/NDF : 309076.3/9

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 122.395+/-0.029 χ^2/NDF : 896815.7/21

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 122.058+/-0.027 χ^2/NDF : 1050050.8/25

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

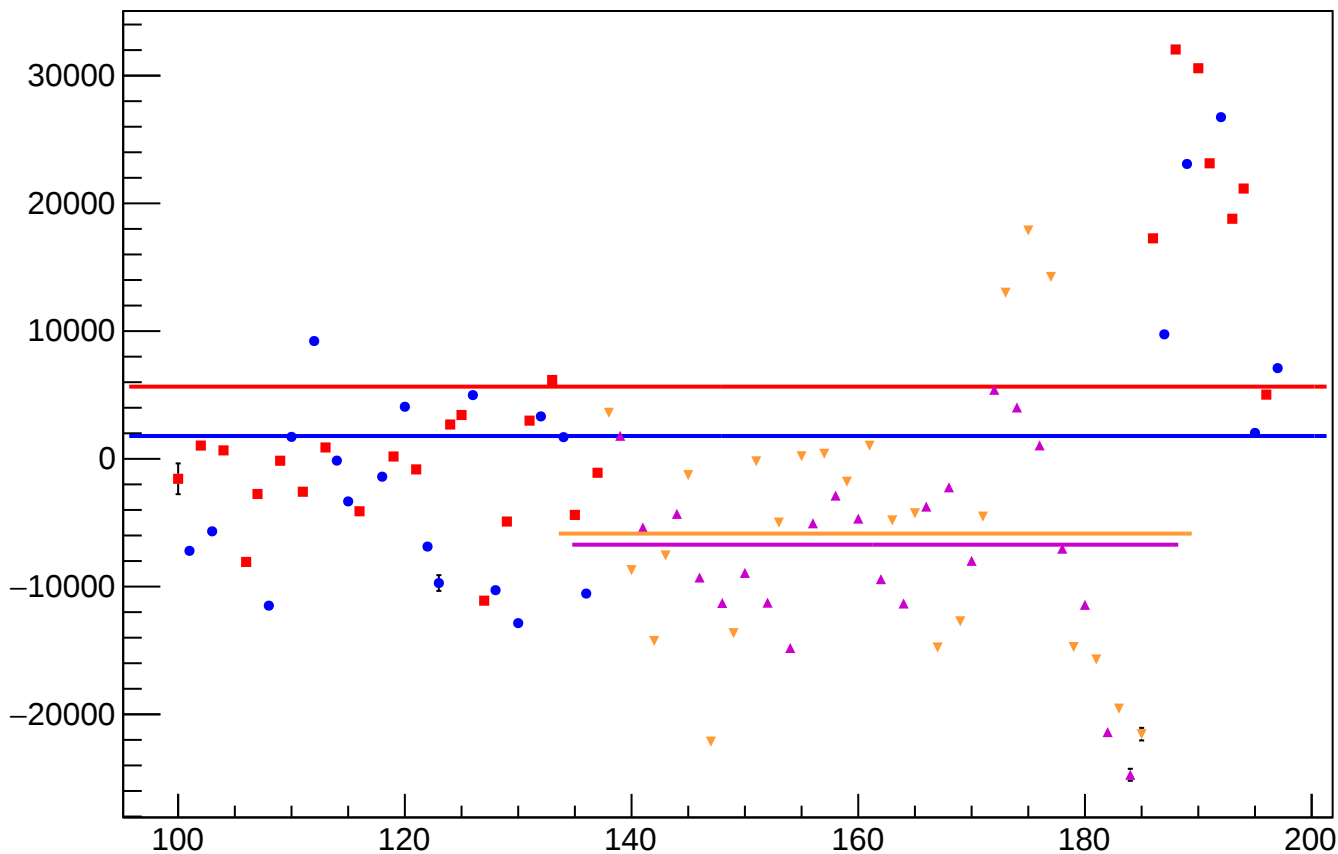
Right: 122.213+/-0.020 χ^2/NDF : 1946939.9/47

In: 132.312+/-0.019 χ^2/NDF : 3514313.2/44

Out: 131.172+/-0.018 χ^2/NDF : 3808932.3/50

All: 131.710+/-0.013 χ^2/NDF : 7325186.8/95

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1787.948+/-41.346 χ^2/NDF : 72353.3/21

Left Out: -5852.544+/-35.880 χ^2/NDF : 63411.4/24

Right Out: 5653.234+/-38.292 χ^2/NDF : 99903.6/25

Left In: -6718.475+/-37.276 χ^2/NDF : 20934.3/22

Left: -6268.993+/-25.850 χ^2/NDF : 84625.8/47

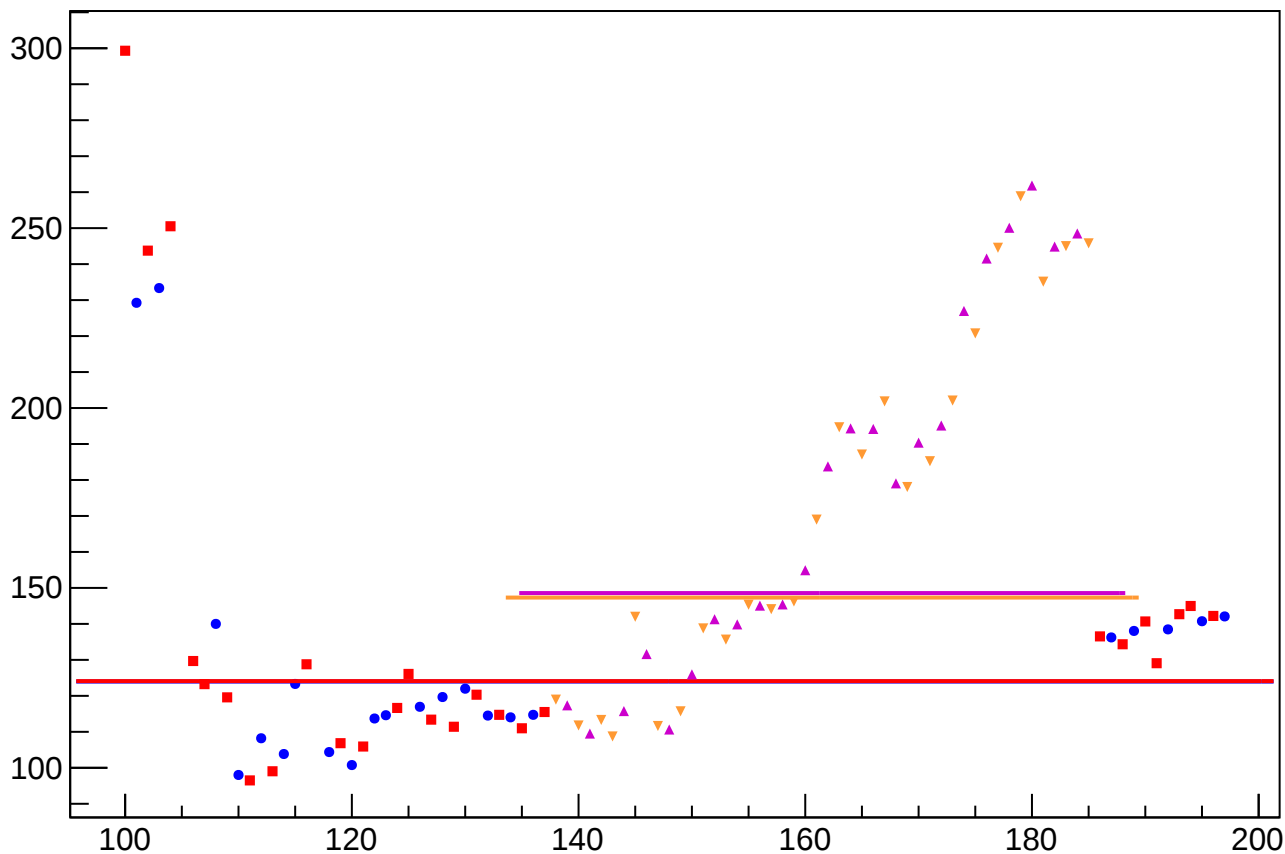
Right: 3868.603+/-28.094 χ^2/NDF : 176961.3/47

In: -2904.512+/-27.685 χ^2/NDF : 116636.9/44

Out: -473.490+/-26.182 χ^2/NDF : 211390.4/50

All: -1621.213+/-19.023 χ^2/NDF : 332097.5/9

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 123.976+/-0.029 χ^2/NDF : 743847.3/21

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 124.096+/-0.027 χ^2/NDF : 849054.2/25

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

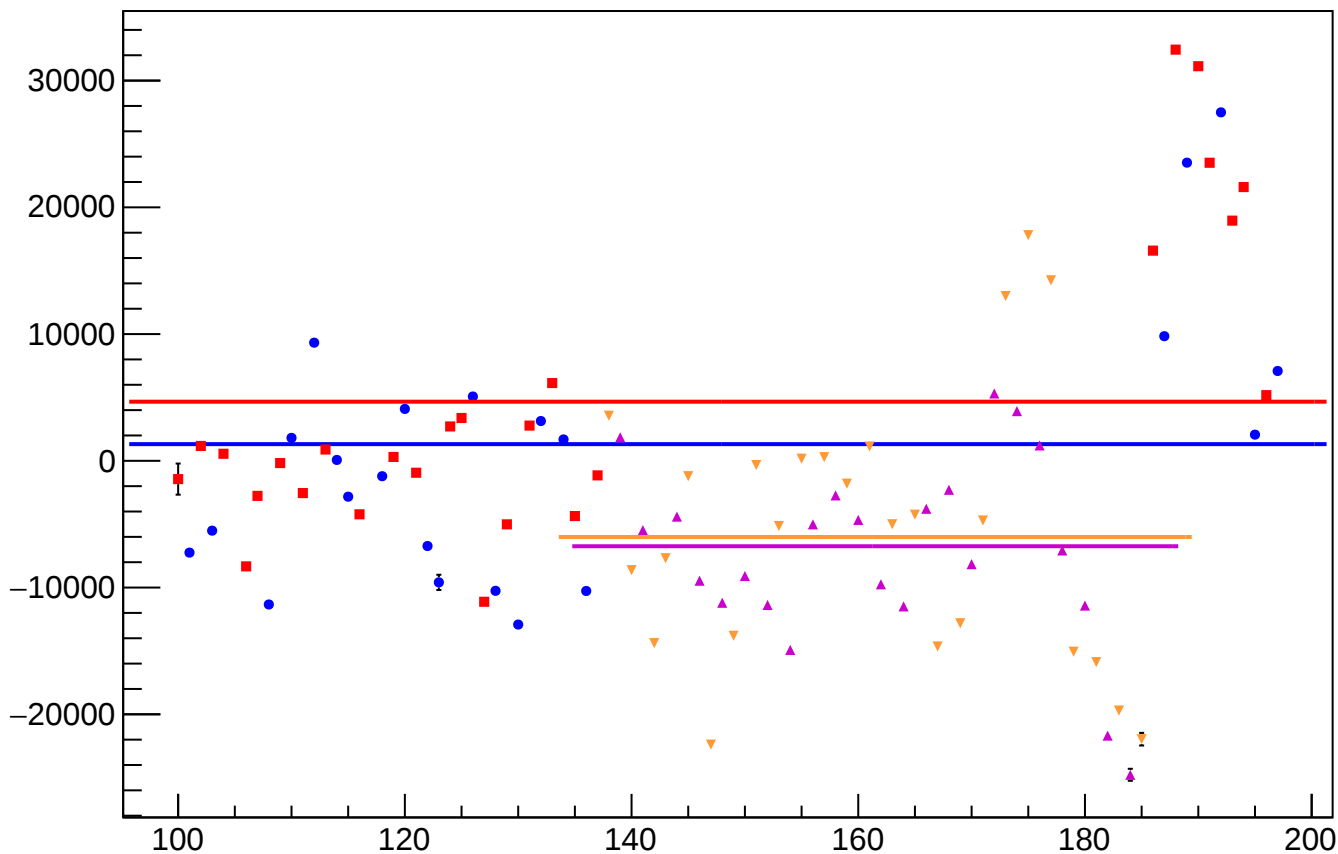
Right: 124.040+/-0.020 χ^2/NDF : 1592910.6/47

In: 137.542+/-0.020 χ^2/NDF : 3527358.9/44

Out: 136.461+/-0.019 χ^2/NDF : 3752383.4/50

All: 136.971+/-0.013 χ^2/NDF : 7281352.1/95

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 1316.465+/-40.484 χ^2/NDF : 71130.5/21

Left Out: -6009.913+/-35.082 χ^2/NDF : 67852.2/24

Right Out: 4666.091+/-37.761 χ^2/NDF : 94960.7/25

Left In: -6740.666+/-36.379 χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253 χ^2/NDF : 90133.1/47

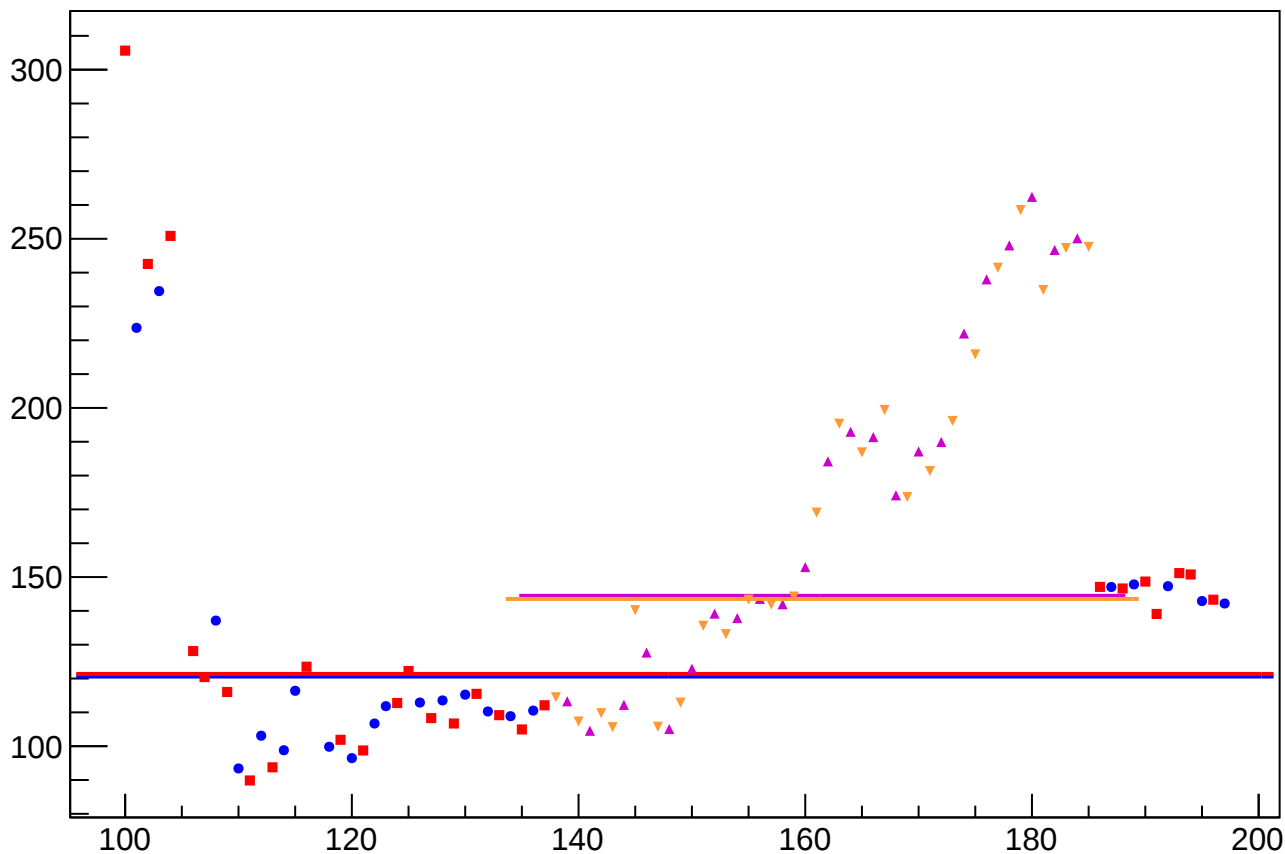
Right: 3107.689+/-27.614 χ^2/NDF : 169752.2/47

In: -3141.113+/-27.059 χ^2/NDF : 115116.2/44

Out: -1063.989+/-25.702 χ^2/NDF : 205715.1/50

All: -2049.151+/-18.635 χ^2/NDF : 323929.0/9

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 120.595+/-0.029 χ^2/NDF : 909166.6/21

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 121.358+/-0.027 χ^2/NDF : 1128248.5/25

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

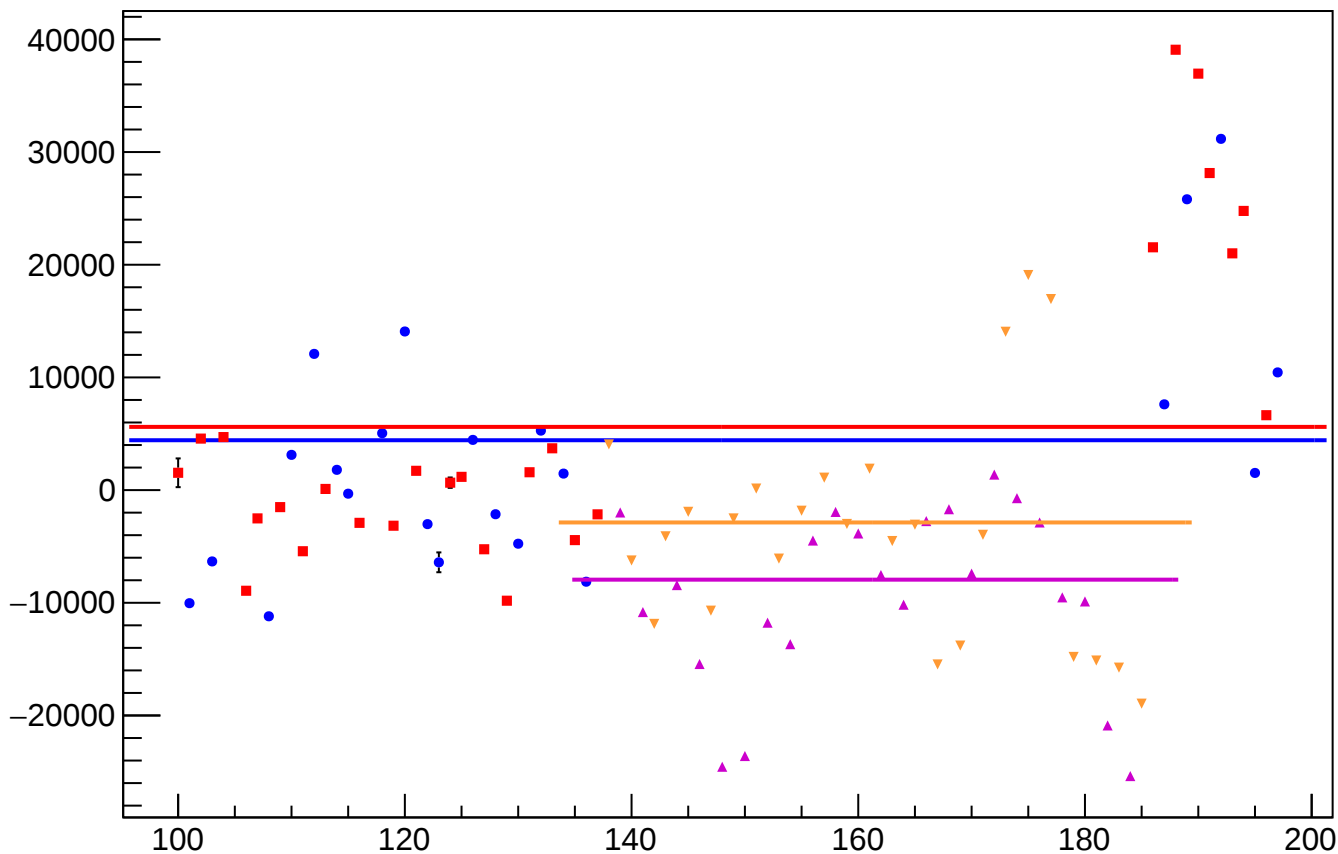
Right: 121.003+/-0.020 χ^2/NDF : 2037795.1/47

In: 133.787+/-0.019 χ^2/NDF : 3879948.6/44

Out: 133.259+/-0.018 χ^2/NDF : 4203143.0/50

All: 133.509+/-0.013 χ^2/NDF : 8083492.4/95

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 4425.301 $\pm$ 48.956 χ^2/NDF : 52490.4/21

Left Out: -2870.473 $\pm$ 39.482 χ^2/NDF : 46420.3/24

Right Out: 5610.364 $\pm$ 45.600 χ^2/NDF : 92320.8/25

Left In: -7947.160 $\pm$ 41.726 χ^2/NDF : 23874.5/22

Left: -5268.670 $\pm$ 28.678 χ^2/NDF : 78105.0/47

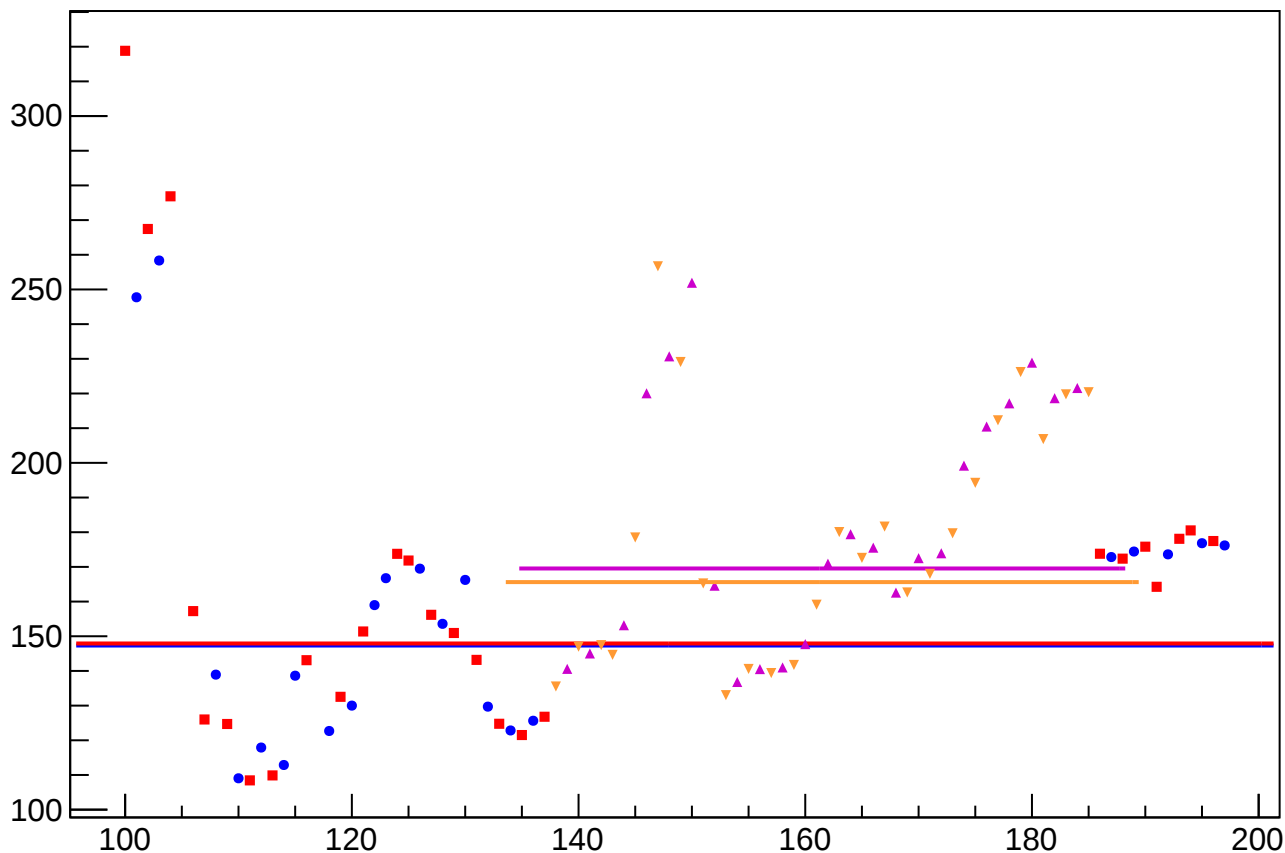
Right: 5059.846 $\pm$ 33.368 χ^2/NDF : 145125.0/47

In: -2741.235 $\pm$ 31.756 χ^2/NDF : 113360.2/44

Out: 763.275 $\pm$ 29.848 χ^2/NDF : 158510.4/50

All: -880.552 $\pm$ 21.749 χ^2/NDF : 278336.7/95

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 147.331+/-0.035 χ^2/NDF : 871940.3/21

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 147.915+/-0.032 χ^2/NDF : 1050289.3/25

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

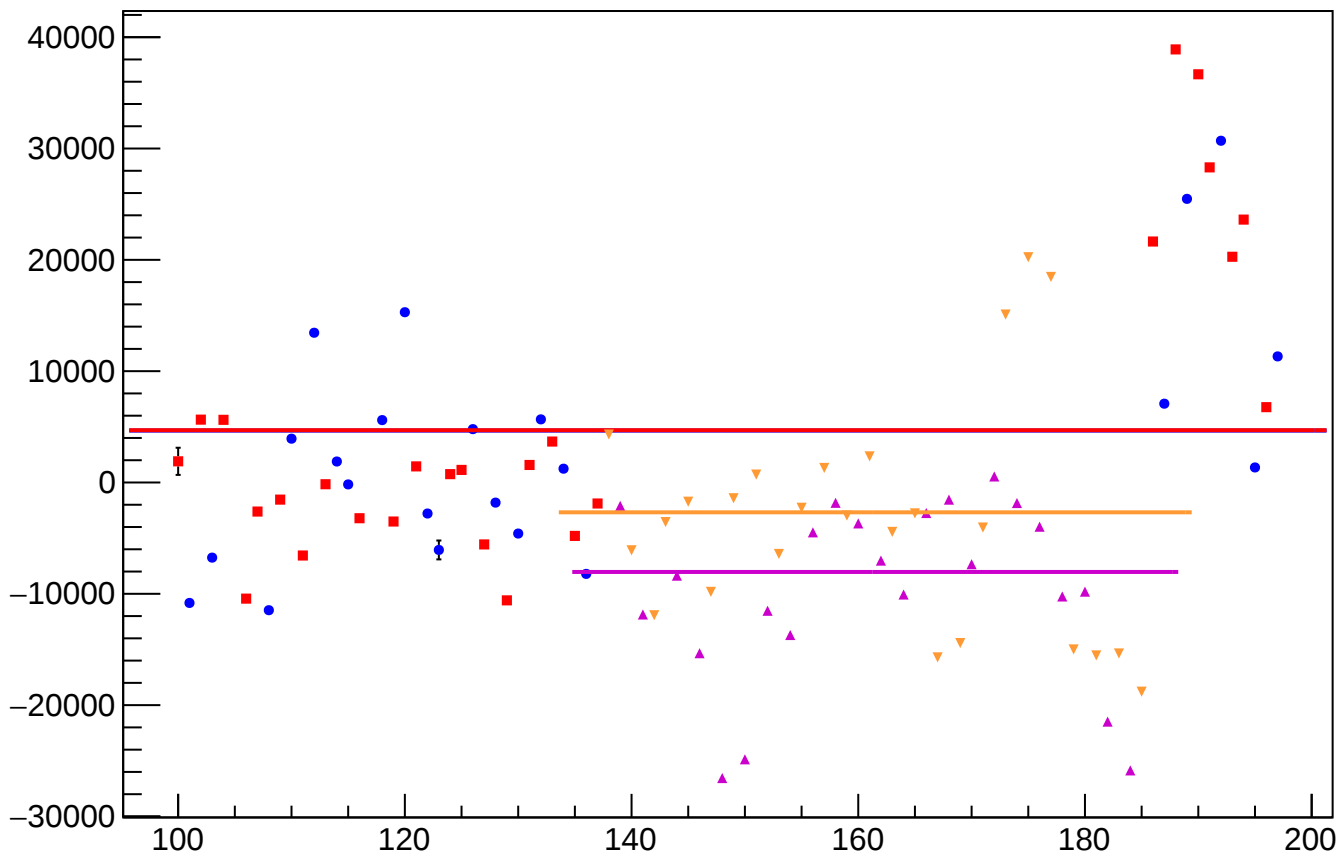
Right: 147.644+/-0.024 χ^2/NDF : 1922382.3/47

In: 160.196+/-0.022 χ^2/NDF :2269630.9/44

Out: 158.032+/-0.021 χ^2/NDF :2367310.7/50

All: 159.047+/-0.015 χ^2/NDF : 4641872.3/95

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 4661.918+/-41.070

χ^2/NDF : 73240.1/21

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right: 4680.324+/-27.888

χ^2/NDF : 201434.7/47

Right Out: 4696.073+/-37.989

χ^2/NDF : 128194.3/25

In: -2192.262+/-27.862

χ^2/NDF : 154104.7/44

Out: 785.665+/-26.040

χ^2/NDF : 205000.9/50

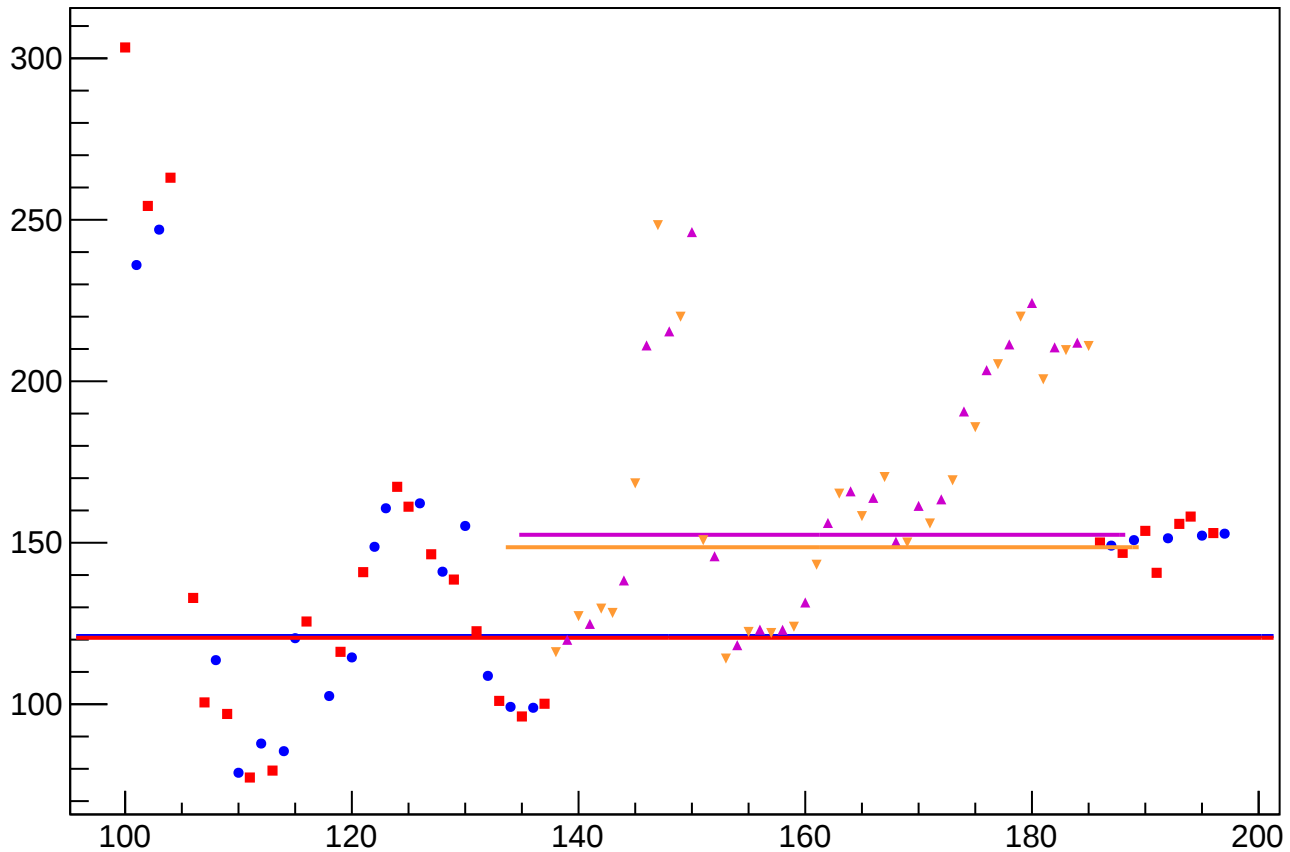
Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

All: -602.735+/-19.025

χ^2/NDF : 365203.2/95

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 121.123+/-0.029 χ^2/NDF : 1445923.4/21

Left Out: 148.611+/-0.025 χ^2/NDF : 1685424.1/24

Right Out: 120.569+/-0.027 χ^2/NDF : 1759846.2/25

Left In: 152.463+/-0.027 χ^2/NDF : 1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

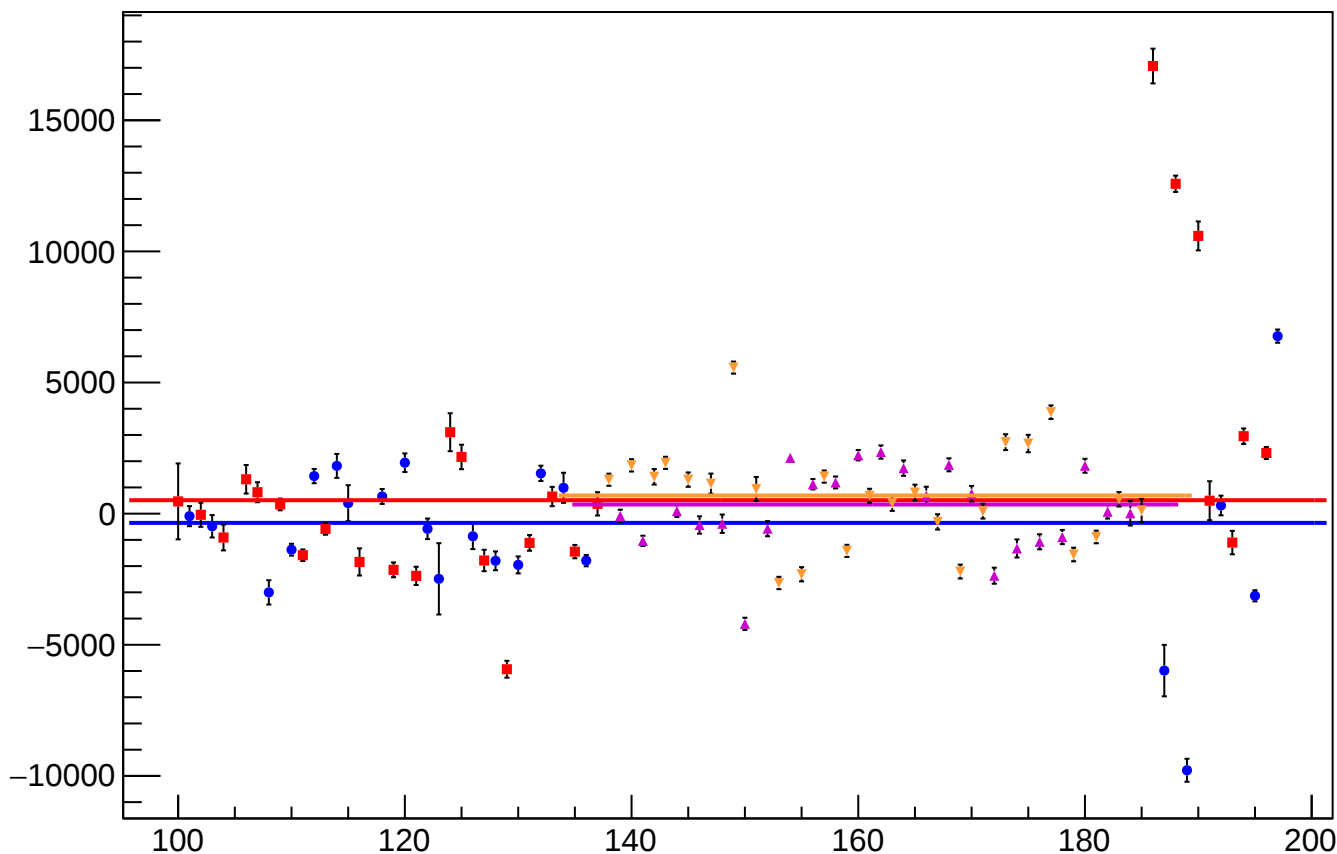
Right: 120.824+/-0.020 χ^2/NDF : 3205965.4/47

In: 138.039+/-0.020 χ^2/NDF : 3766078.1/44

Out: 135.435+/-0.018 χ^2/NDF : 4022983.6/50

All: 136.649+/-0.013 χ^2/NDF : 7798384.0/95

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -351.744 ± 72.030 $\chi^2/\text{NDF}: 1774.5/21$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 512.536 ± 67.582 $\chi^2/\text{NDF}: 3451.2/25$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

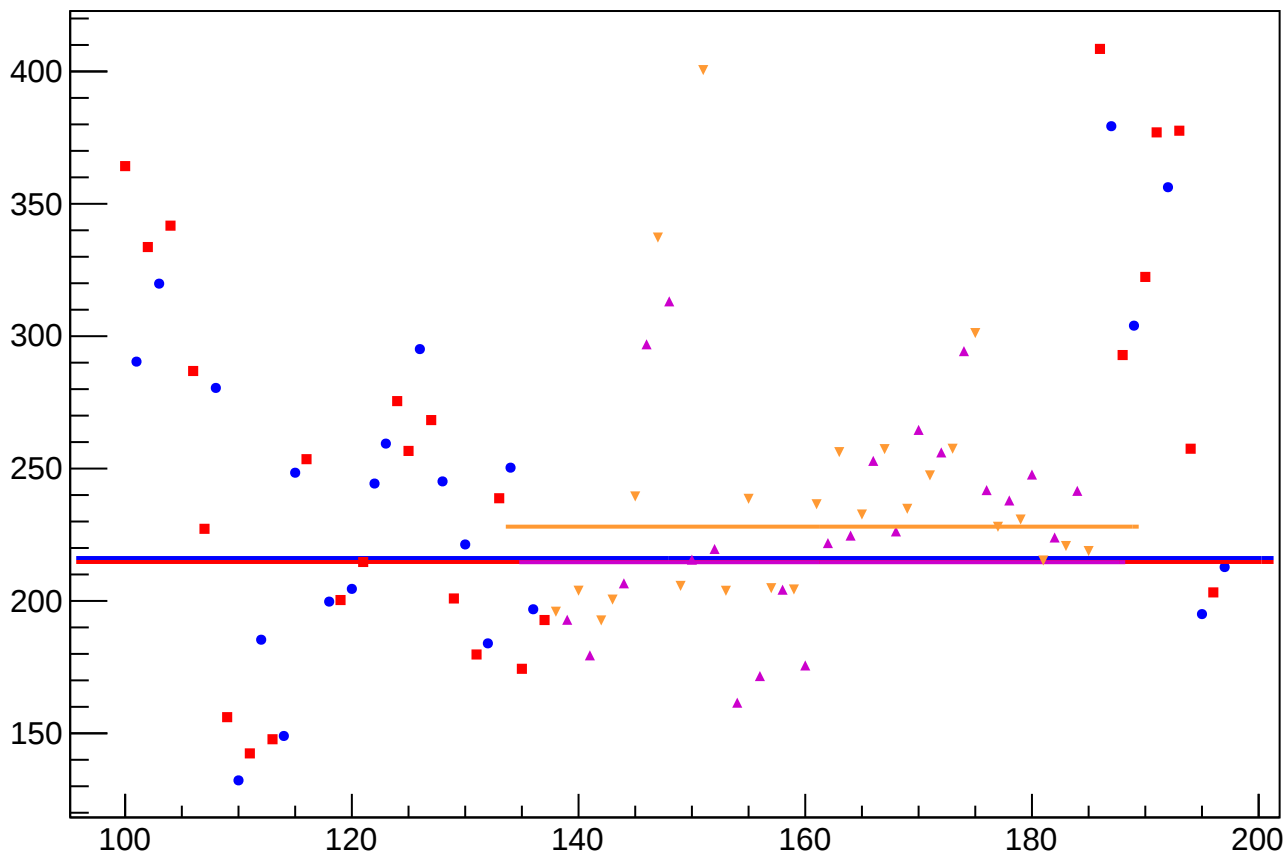
Right: 107.904 ± 49.285 $\chi^2/\text{NDF}: 5302.3/47$

In: 102.706 ± 42.738 $\chi^2/\text{NDF}: 2816.9/44$

Out: 622.196 ± 42.331 $\chi^2/\text{NDF}: 4877.5/50$

All: 364.937 ± 30.075 $\chi^2/\text{NDF}: 7769.1/95$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.209 $\pm$ 0.051 χ^2 /NDF: 1148815.1/21

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 214.718 $\pm$ 0.048 χ^2 /NDF: 1814318.4/25

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2 /NDF: 1914604.4/47

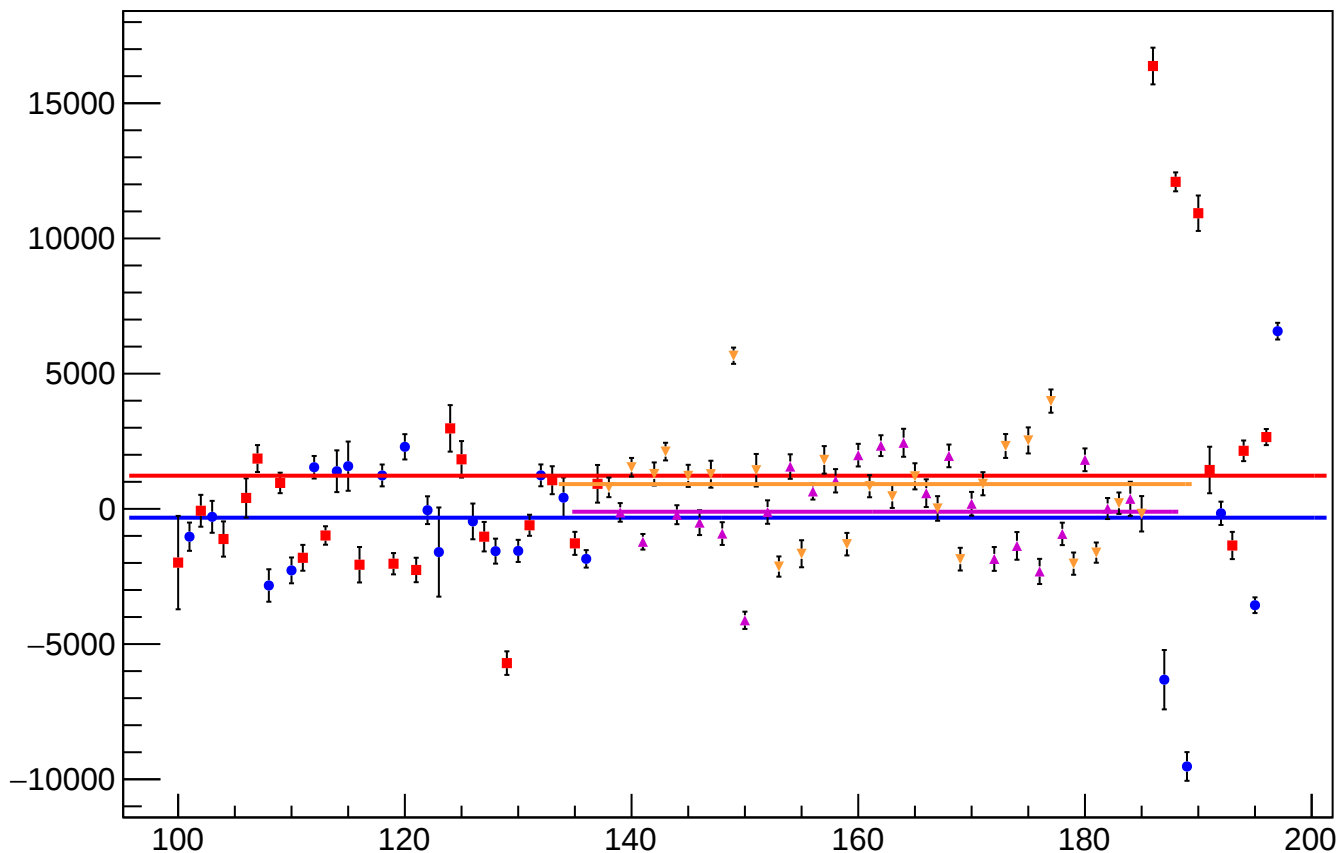
Right: 215.416 $\pm$ 0.035 χ^2 /NDF: 2963589.1/47

In: 215.184 $\pm$ 0.030 χ^2 /NDF: 2175123.7/44

Out: 222.826 $\pm$ 0.030 χ^2 /NDF: 2688031.4/50

All: 219.042 $\pm$ 0.021 χ^2 /NDF: 4895435.3/95

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -326.449 ± 100.115 $\chi^2/\text{NDF}: 1120.2/21$

Left Out: 915.968 ± 83.398 $\chi^2/\text{NDF}: 618.3/24$

Right Out: 1226.607 ± 94.795 $\chi^2/\text{NDF}: 2326.6/25$

Left In: -106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

Left: 410.985 ± 59.320 $\chi^2/\text{NDF}: 1082.8/47$

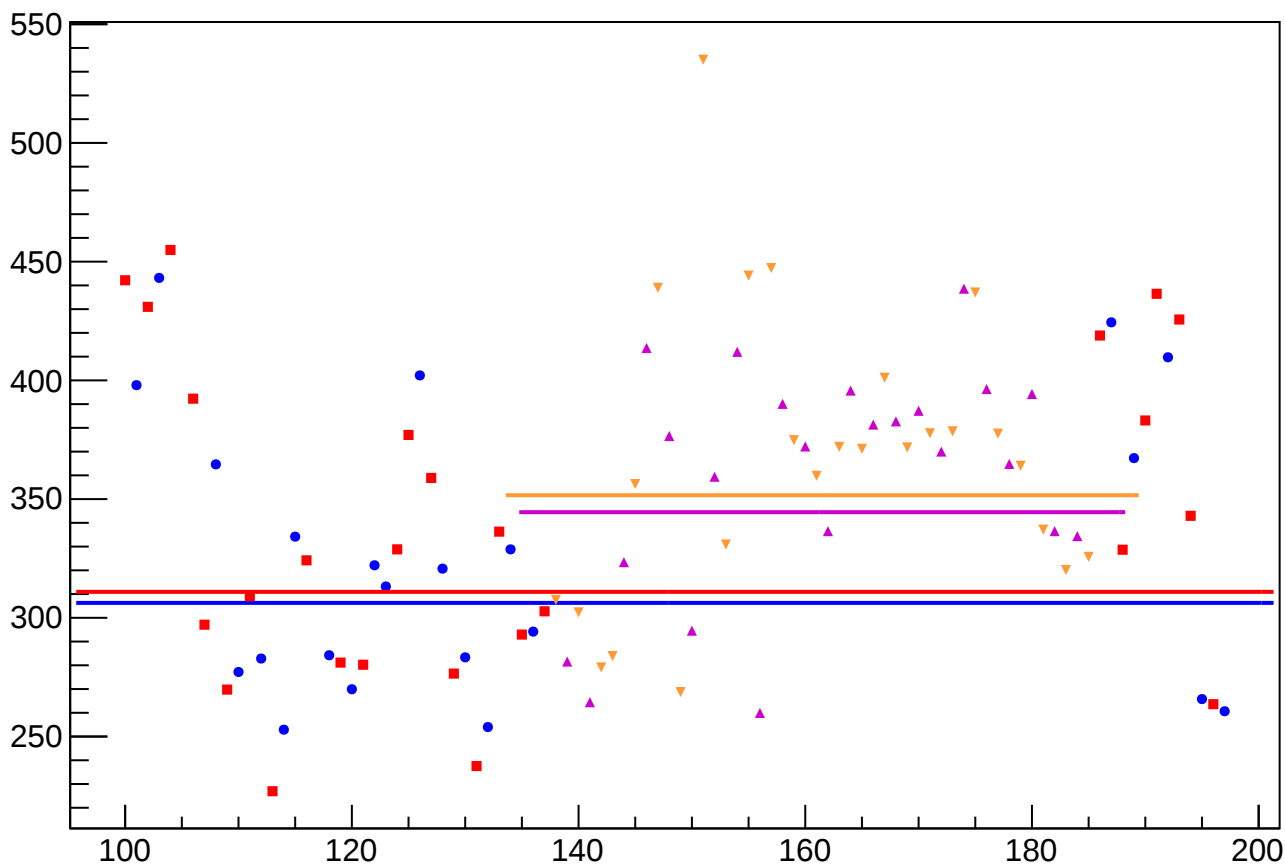
Right: 492.437 ± 68.834 $\chi^2/\text{NDF}: 3573.6/47$

In: -197.643 ± 64.526 $\chi^2/\text{NDF}: 1513.3/44$

Out: 1051.501 ± 62.615 $\chi^2/\text{NDF}: 2950.9/50$

All: 445.697 ± 44.936 $\chi^2/\text{NDF}: 4657.2/95$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 306.289 ± 0.071 $\chi^2/\text{NDF}: 569183.1/21$

Left Out: 351.633 ± 0.059 $\chi^2/\text{NDF}: 907849.3/24$

Right Out: 310.937 ± 0.067 $\chi^2/\text{NDF}: 803982.5/25$

Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$

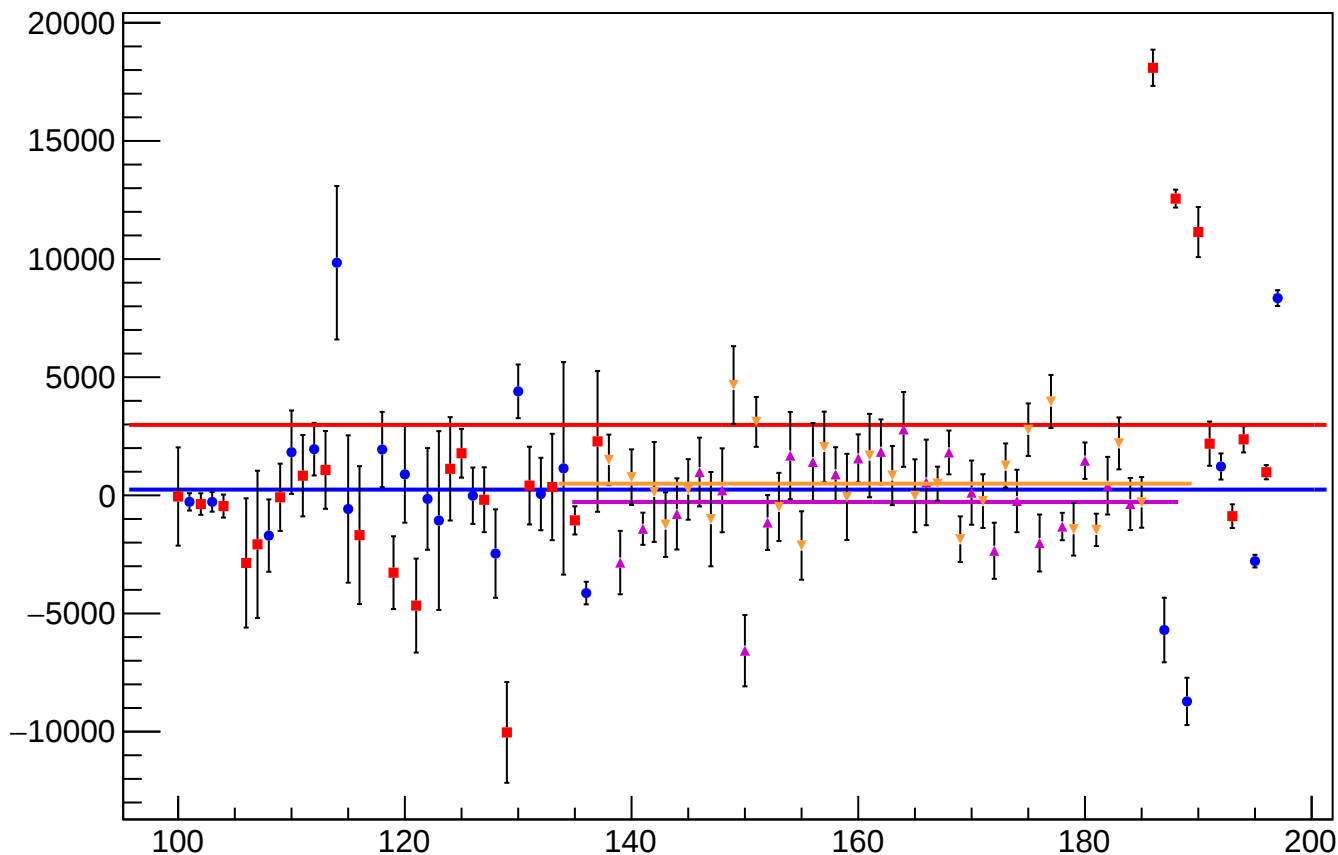
Right: 308.740 ± 0.049 $\chi^2/\text{NDF}: 1375438.4/47$

In: 328.622 ± 0.046 $\chi^2/\text{NDF}: 1508308.0/44$

Out: 333.877 ± 0.044 $\chi^2/\text{NDF}: 1919615.9/50$

All: 331.328 ± 0.032 $\chi^2/\text{NDF}: 3434756.9/95$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 243.287 ± 141.172 $\chi^2/\text{NDF}: 932.6/21$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 2981.190 ± 147.687 $\chi^2/\text{NDF}: 1442.8/25$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

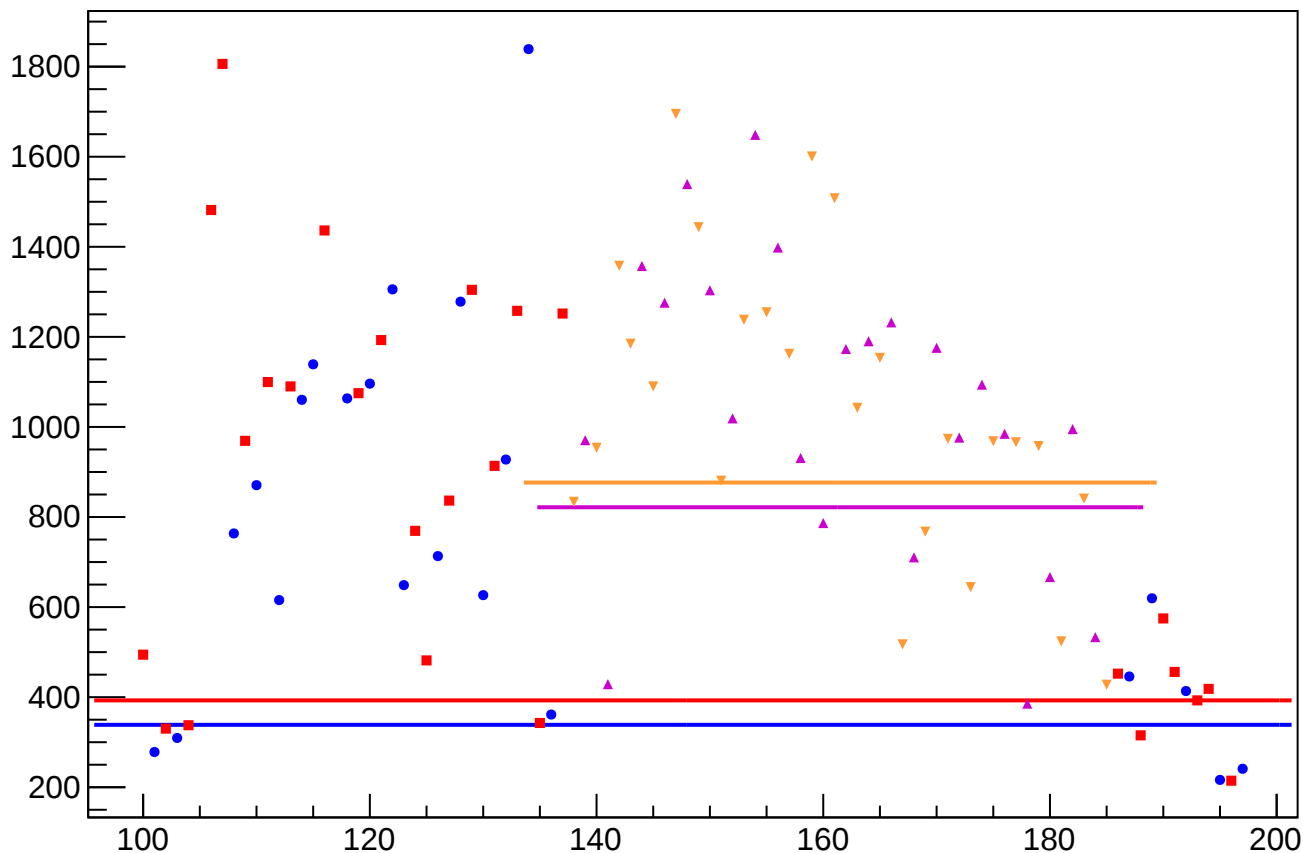
Right: 1550.511 ± 102.049 $\chi^2/\text{NDF}: 2555.0/47$

In: 101.741 ± 120.606 $\chi^2/\text{NDF}: 993.6/44$

Out: 2260.076 ± 124.439 $\chi^2/\text{NDF}: 1581.2/50$

All: 1147.152 ± 86.605 $\chi^2/\text{NDF}: 2729.9/95$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 338.620 +/- 0.100 χ^2/NDF : 4003425.5/21

Left Out: 876.560 +/- 0.163 χ^2/NDF : 3434698.7/24

Right Out: 392.877 +/- 0.104 χ^2/NDF : 4983491.7/25

Left In: 821.657 +/- 0.164 χ^2/NDF : 4443094.2/22

Left: 849.226 +/- 0.116 χ^2/NDF : 7934012.4/47

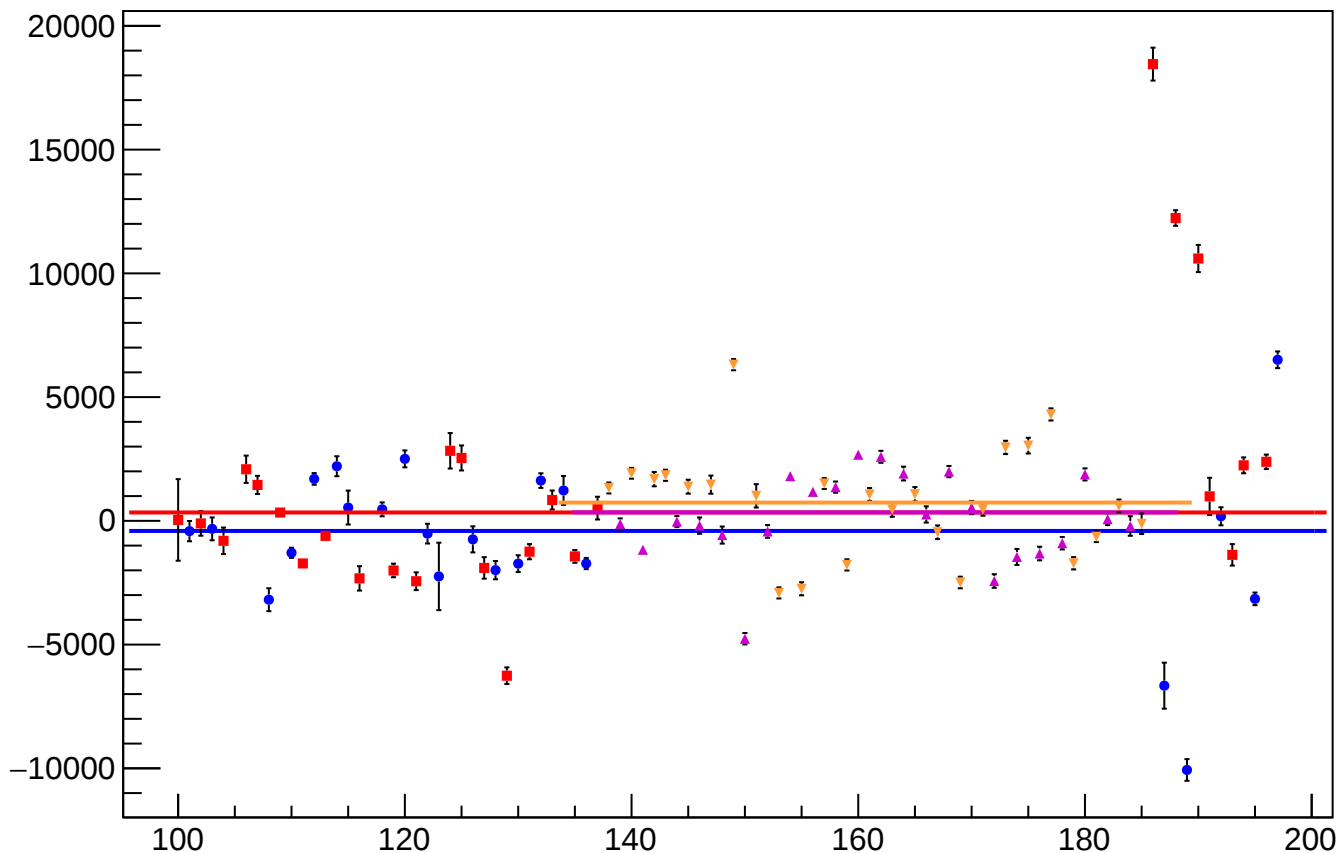
Right: 364.525 +/- 0.072 χ^2/NDF : 9127971.3/47

In: 469.106 +/- 0.085 χ^2/NDF : 14771802.9/44

Out: 533.169 +/- 0.088 χ^2/NDF : 14640295.0/50

All: 500.135 +/- 0.061 χ^2/NDF : 29685425.8/95

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -408.109 ± 73.565 $\chi^2/\text{NDF}: 1455.4/21$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 338.747 ± 67.203 $\chi^2/\text{NDF}: 3451.4/25$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

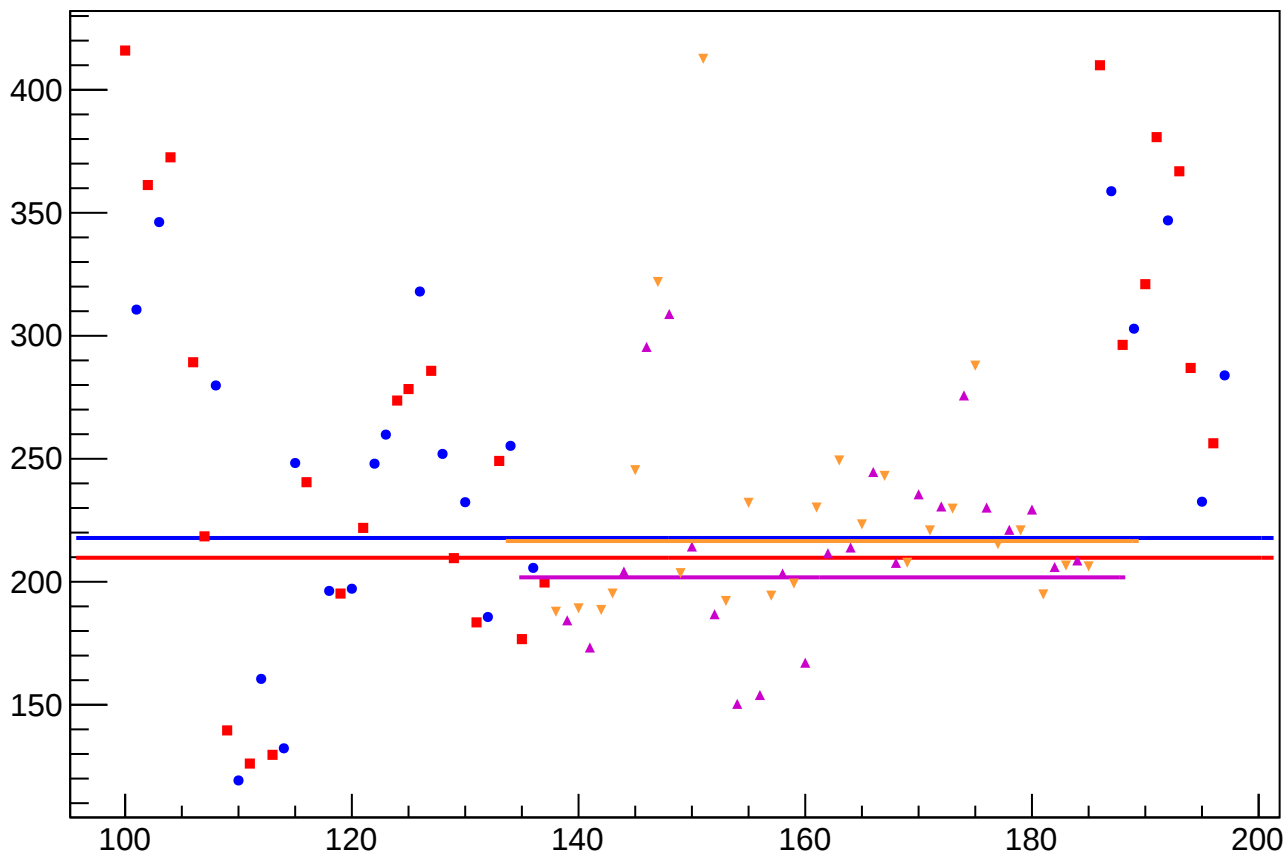
Right: -0.996 ± 49.617 $\chi^2/\text{NDF}: 4963.0/47$

In: 105.008 ± 41.378 $\chi^2/\text{NDF}: 2781.4/44$

Out: 590.276 ± 40.952 $\chi^2/\text{NDF}: 5408.9/50$

All: 350.153 ± 29.107 $\chi^2/\text{NDF}: 8259.8/95$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 217.812 $\pm$ 0.052 χ^2 /NDF: 1585026.6/21

Left Out: 216.574 $\pm$ 0.037 χ^2 /NDF: 886214.1/24

Right Out: 209.770 $\pm$ 0.048 χ^2 /NDF: 2525739.9/25

Left In: 201.805 $\pm$ 0.035 χ^2 /NDF: 1087243.4/22

Left: 208.957 $\pm$ 0.025 χ^2 /NDF: 2057801.5/47

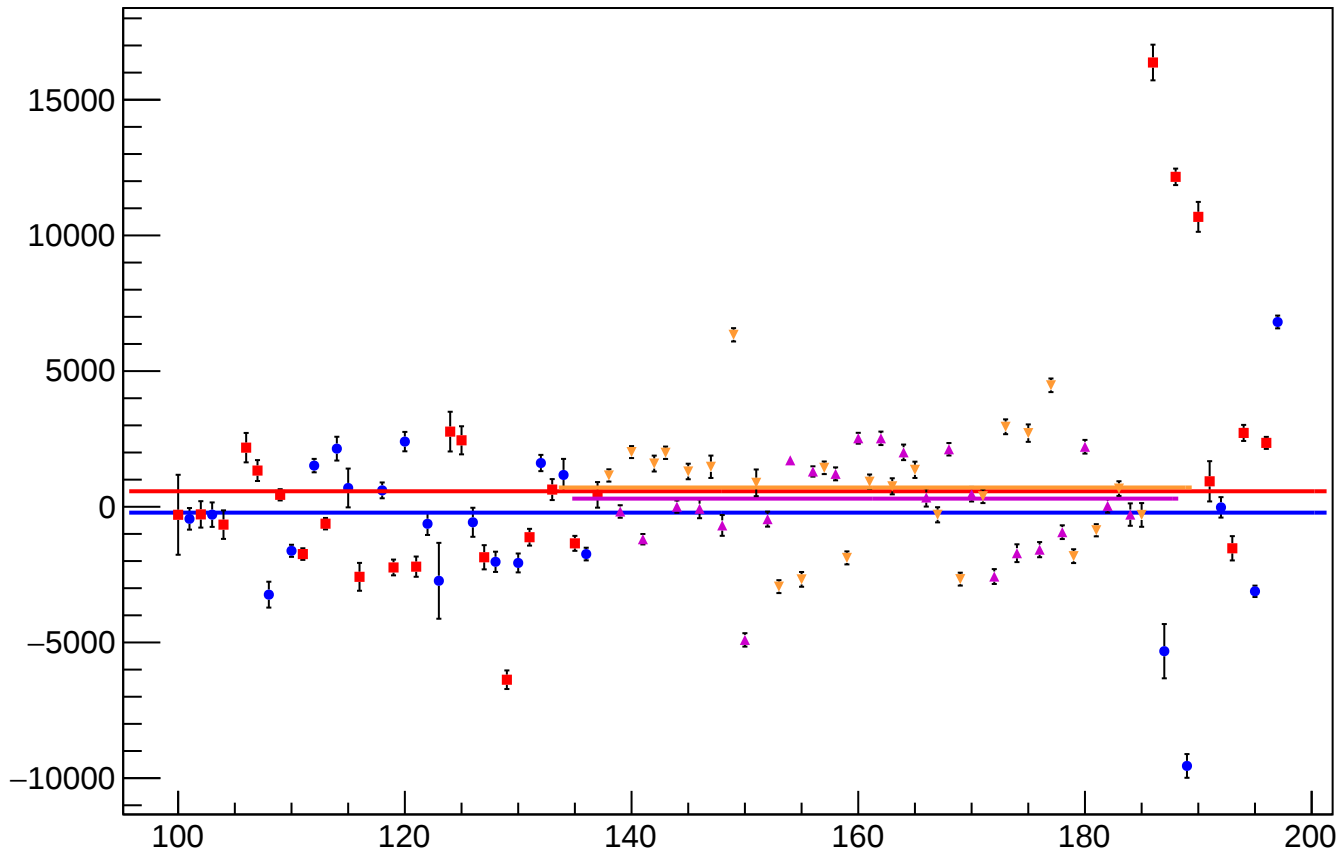
Right: 213.429 $\pm$ 0.035 χ^2 /NDF: 4123794.6/47

In: 206.869 $\pm$ 0.029 χ^2 /NDF: 2737003.0/44

Out: 214.048 $\pm$ 0.029 χ^2 /NDF: 3424841.4/50

All: 210.496 $\pm$ 0.021 χ^2 /NDF: 6192251.4/95

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -216.055 ± 72.489 $\chi^2/\text{NDF}: 1922.3/21$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: 571.746 ± 67.765 $\chi^2/\text{NDF}: 3409.2/25$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

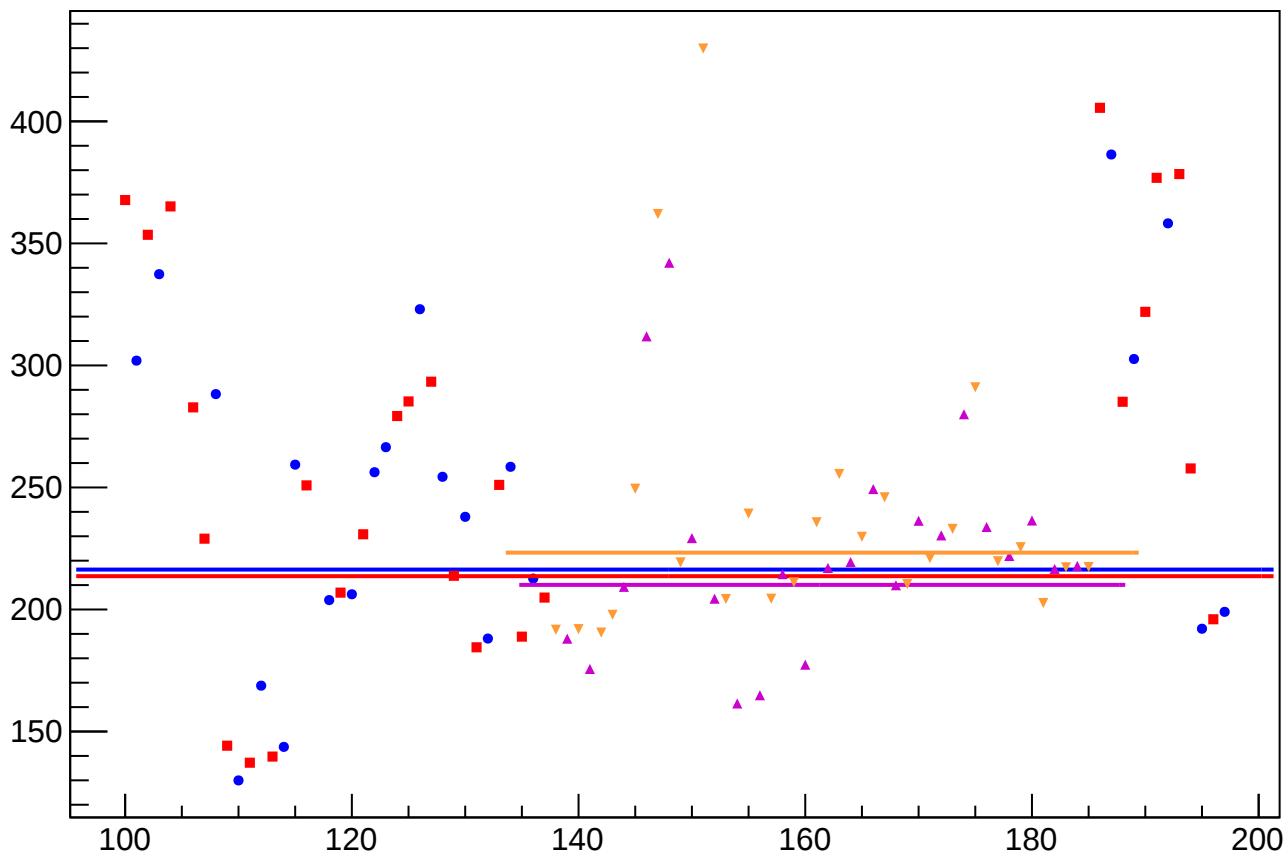
Right: 204.346 ± 49.503 $\chi^2/\text{NDF}: 5394.5/47$

In: 125.080 ± 42.244 $\chi^2/\text{NDF}: 3164.4/44$

Out: 657.953 ± 41.867 $\chi^2/\text{NDF}: 5247.1/50$

All: 393.904 ± 29.737 $\chi^2/\text{NDF}: 8491.8/95$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 216.357 $\pm$ 0.051 χ^2/NDF : 1338184.5/21

Left Out: 223.296 $\pm$ 0.038 χ^2/NDF : 922768.4/24

Right Out: 213.650 $\pm$ 0.048 χ^2/NDF : 2083400.5/25

Left In: 210.080 $\pm$ 0.037 χ^2/NDF : 1015274.5/22

Left: 216.530 $\pm$ 0.026 χ^2/NDF : 2001132.1/47

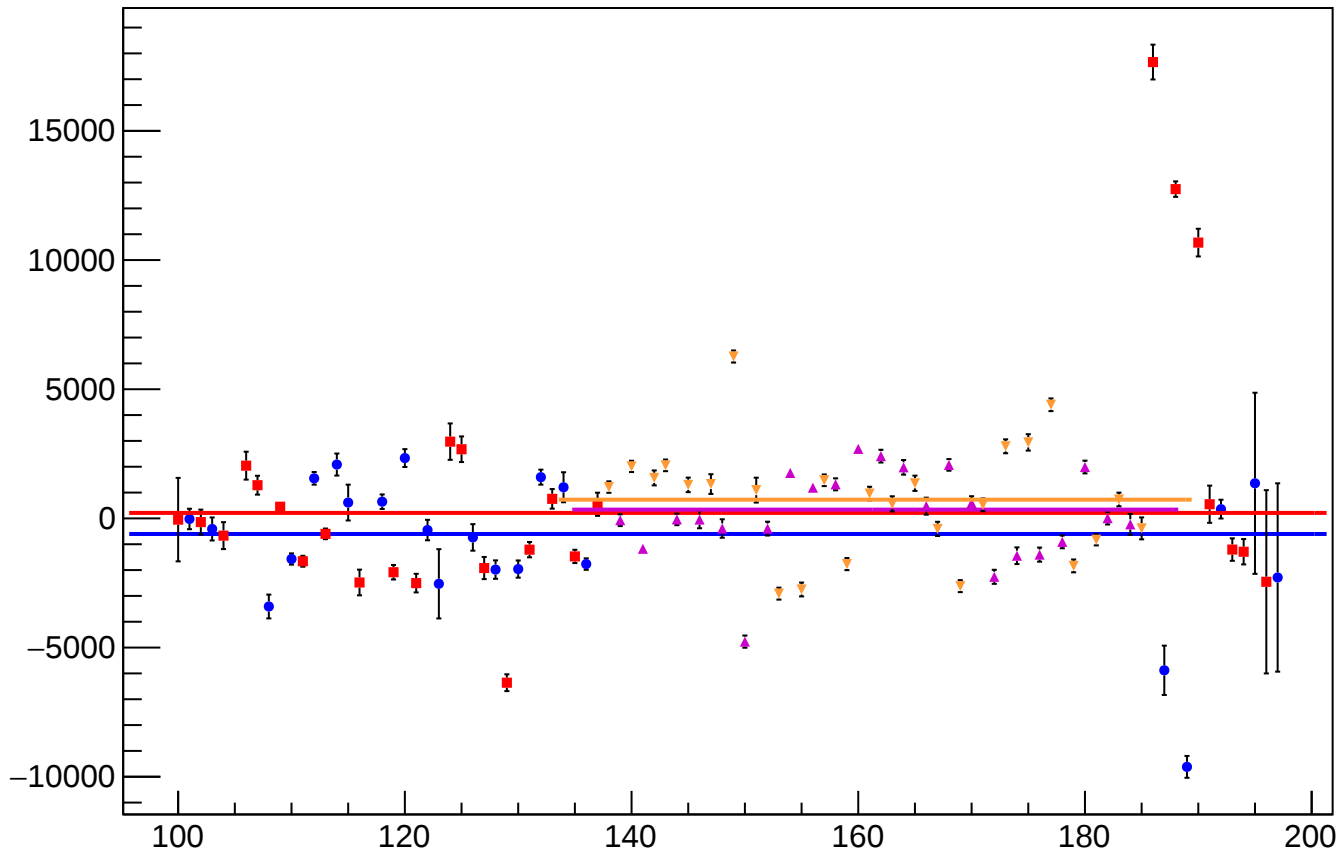
Right: 214.912 $\pm$ 0.035 χ^2/NDF : 3423072.9/47

In: 212.212 $\pm$ 0.030 χ^2/NDF : 2363361.8/44

Out: 219.614 $\pm$ 0.030 χ^2/NDF : 3031225.3/50

All: 215.946 $\pm$ 0.021 χ^2/NDF : 5425569.6/95

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -603.203 ± 79.160 χ^2/NDF : 892.1/21

Left Out: 725.866 ± 52.158 χ^2/NDF : 1912.7/24

Right Out: 212.440 ± 70.046 χ^2/NDF : 3632.2/25

Left In: 340.502 ± 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 ± 36.393 χ^2/NDF : 3142.6/47

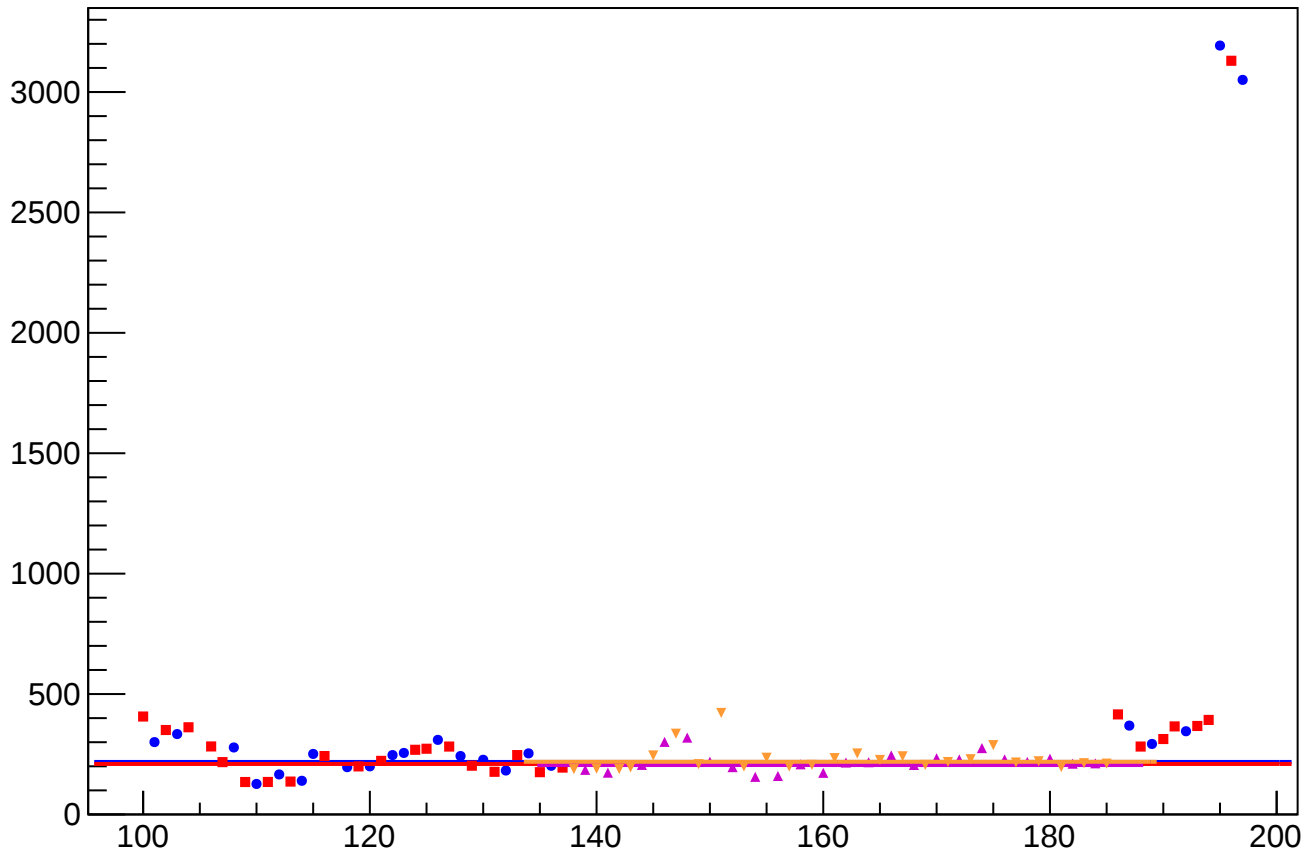
Right: -145.744 ± 52.458 χ^2/NDF : 4583.8/47

In: 65.208 ± 42.755 χ^2/NDF : 2194.6/44

Out: 542.730 ± 41.834 χ^2/NDF : 5579.5/50

All: 309.166 ± 29.902 χ^2/NDF : 7837.8/95

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 218.016+/-0.056 χ^2/NDF : 3928106.9/21

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 209.704+/-0.050 χ^2/NDF : 3774672.5/25

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

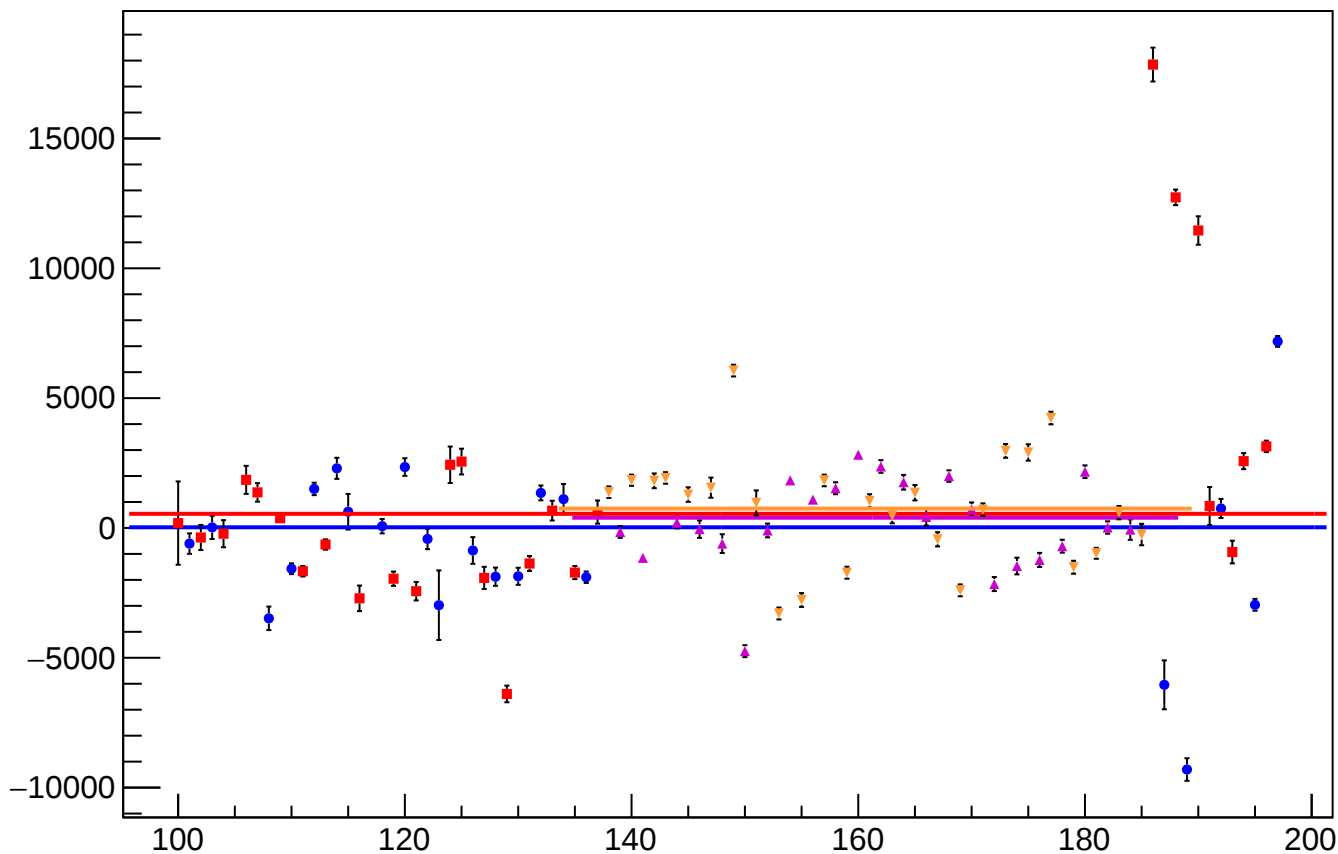
Right: 213.354+/-0.037 χ^2/NDF : 7715147.7/47

In: 208.973+/-0.030 χ^2/NDF : 4962124.5/44

Out: 215.535+/-0.030 χ^2/NDF : 4693132.7/50

All: 212.326+/-0.021 χ^2/NDF : 9679324.1/95

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 25.461+/-69.582 χ^2/NDF : 2271.7/21

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: 544.531+/-64.763 χ^2/NDF : 3964.6/25

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

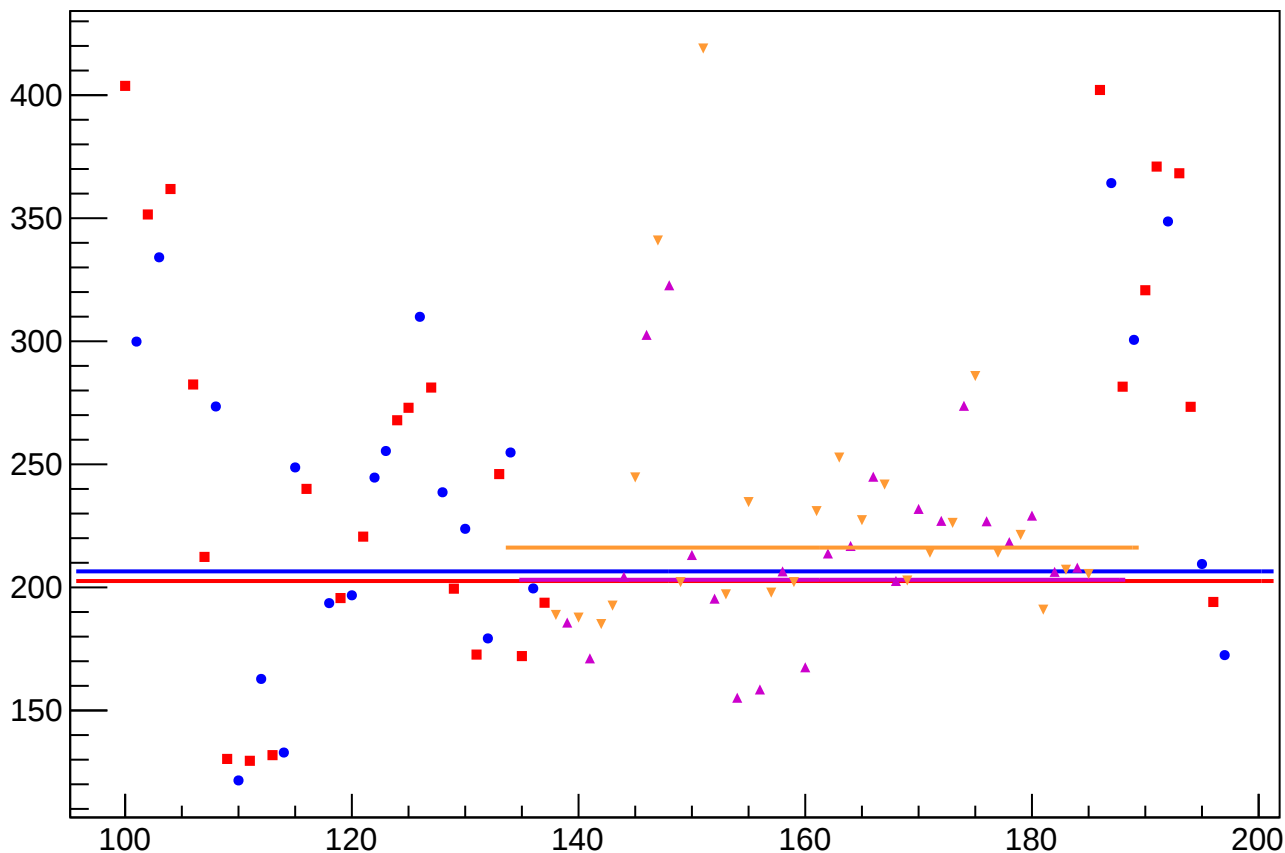
Right: 303.590+/-47.407 χ^2/NDF : 6266.1/47

In: 267.724+/-40.770 χ^2/NDF :3526.5/44

Out: 668.031+/-40.353 χ^2/NDF :5912.6/50

All: 469.938+/-28.680 χ^2/NDF : 9487.9/95

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 206.513 $\pm$ 0.049 χ^2/NDF : 1458283.0/21

Left Out: 216.178 $\pm$ 0.036 χ^2/NDF : 946050.8/24

Right Out: 202.587 $\pm$ 0.046 χ^2/NDF : 2401908.0/25

Left In: 203.101 $\pm$ 0.036 χ^2/NDF : 1038013.0/22

Left: 209.475 $\pm$ 0.025 χ^2/NDF : 2049926.5/47

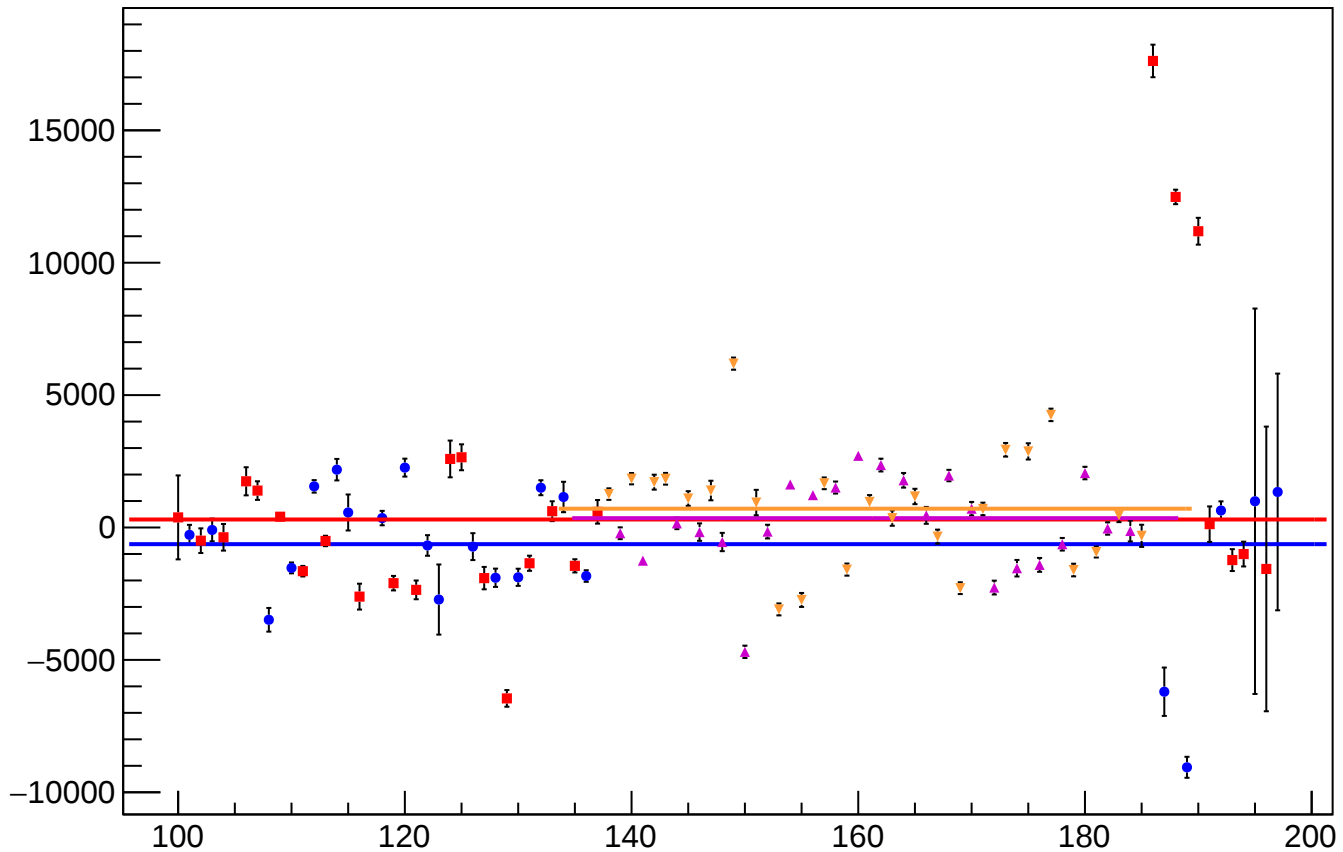
Right: 204.410 $\pm$ 0.034 χ^2/NDF : 3863601.8/47

In: 204.272 $\pm$ 0.029 χ^2/NDF : 2499454.3/44

Out: 210.902 $\pm$ 0.029 χ^2/NDF : 3401839.0/50

All: 207.621 $\pm$ 0.020 χ^2/NDF : 5928005.3/95

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.141 ± 76.504 χ^2/NDF : 914.9/21

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 302.470 ± 67.168 χ^2/NDF : 4161.3/25

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

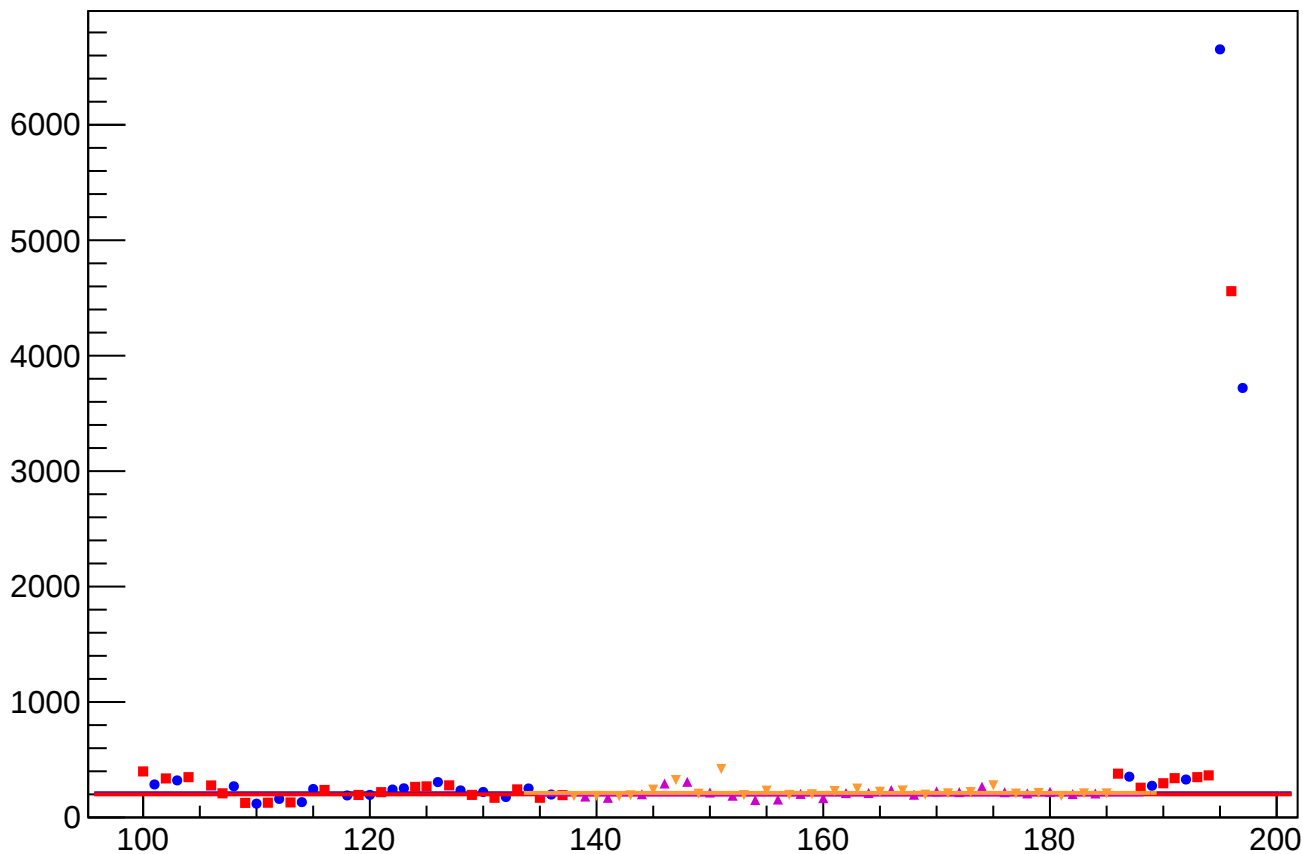
Right: -103.048 ± 50.475 χ^2/NDF : 5160.0/47

In: 64.290 ± 41.450 χ^2/NDF : 2264.3/44

Out: 562.045 ± 40.492 χ^2/NDF : 6117.0/50

All: 318.990 ± 28.965 χ^2/NDF : 8455.1/95

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 209.332 $\pm$ 0.054 χ^2 /NDF: 4099122.8/21

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 200.164 $\pm$ 0.047 χ^2 /NDF: 3723880.0/25

Left In: 199.142 $\pm$ 0.035 χ^2 /NDF: 985932.4/22

Left: 205.736 $\pm$ 0.025 χ^2 /NDF: 1975772.3/47

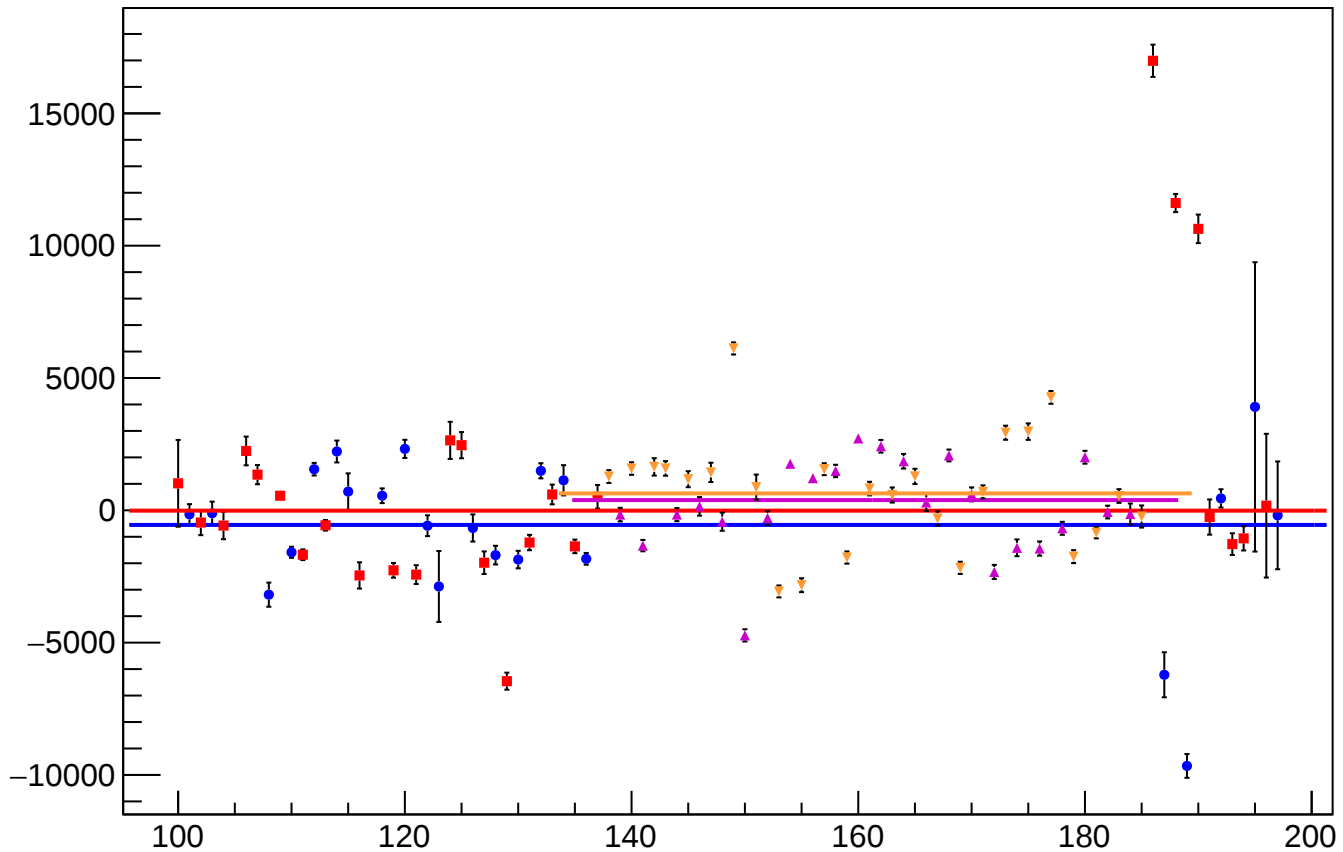
Right: 204.155 $\pm$ 0.036 χ^2 /NDF: 7839222.9/47

In: 202.133 $\pm$ 0.029 χ^2 /NDF: 5110121.3/44

Out: 208.156 $\pm$ 0.029 χ^2 /NDF: 4684586.0/50

All: 205.215 $\pm$ 0.020 χ^2 /NDF: 9816311.3/95

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -551.934+/-77.809 χ^2/NDF : 859.7/21

Left Out: 639.995+/-52.708 χ^2/NDF : 1859.2/24

Right Out: -12.567+/-69.085 χ^2/NDF : 3095.9/25

Left In: 386.248+/-50.994 χ^2/NDF : 1238.0/22

Left: 508.926+/-36.649 χ^2/NDF : 3109.2/47

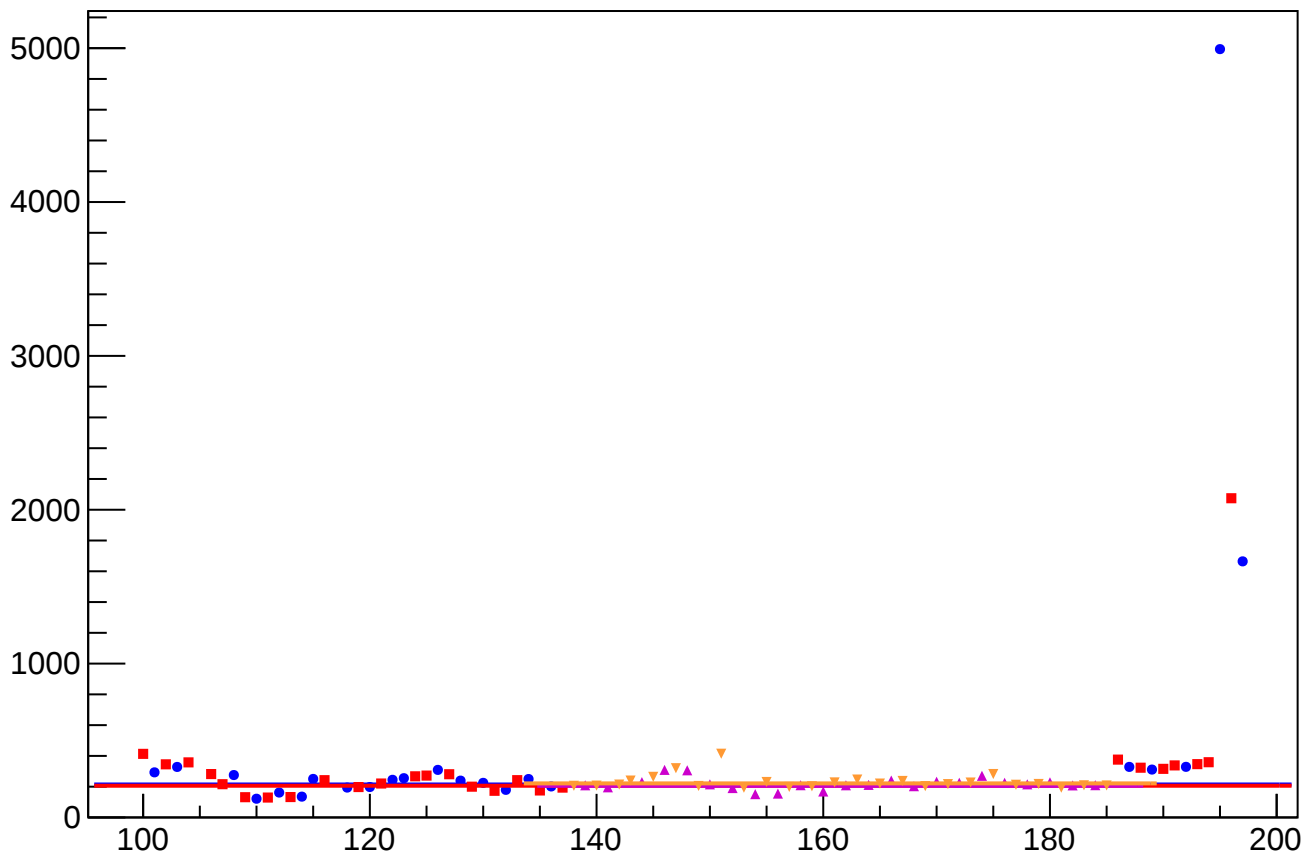
Right: -250.328+/-51.661 χ^2/NDF : 3982.5/47

In: 104.365+/-42.650 χ^2/NDF : 2199.4/44

Out: 399.900+/-41.905 χ^2/NDF : 5011.5/50

All: 254.738+/-29.891 χ^2/NDF : 7235.4/95

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 214.277+/-0.055 χ^2/NDF : 3866461.3/21

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 206.207+/-0.049 χ^2/NDF : 3439467.7/25

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

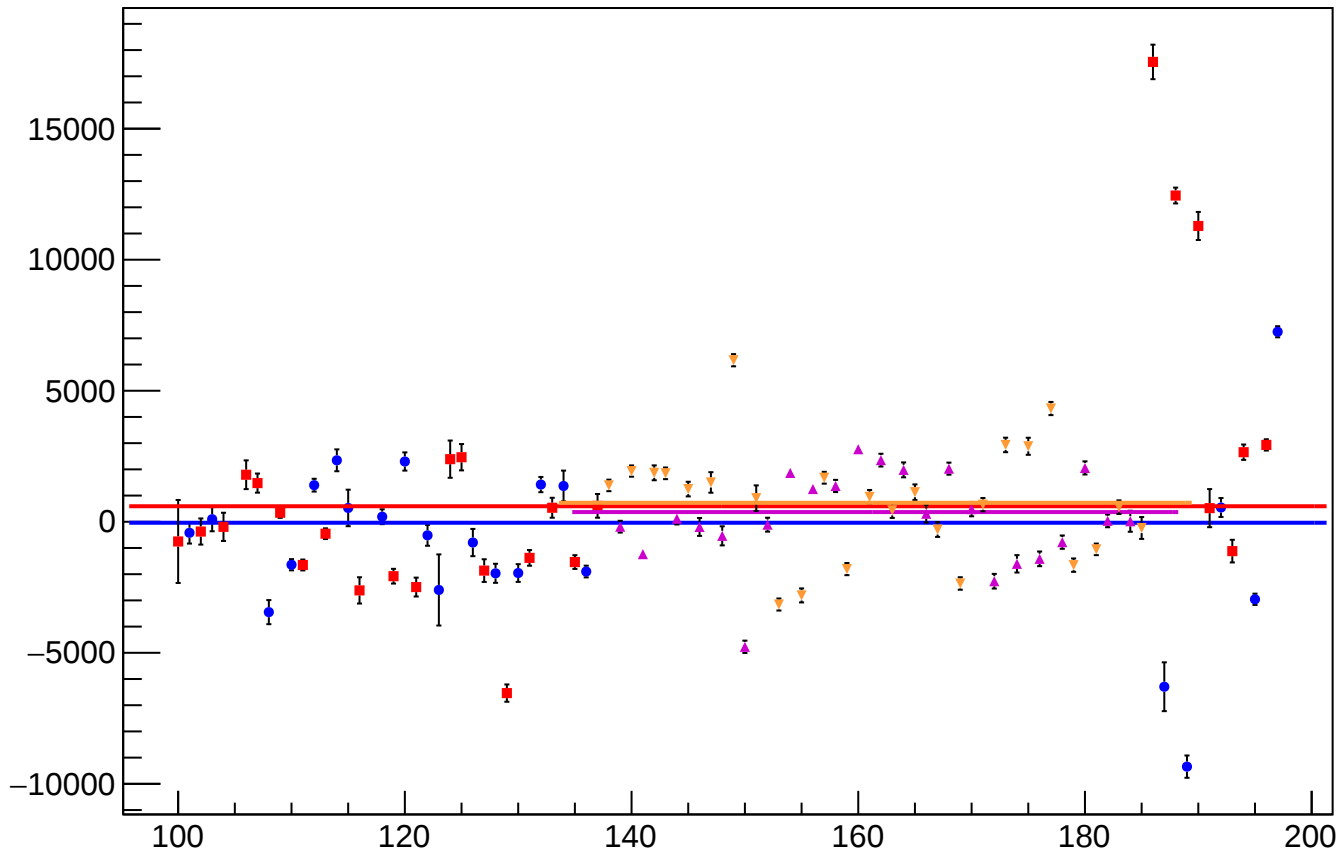
Right: 209.764+/-0.037 χ^2/NDF : 7317956.7/47

In: 208.349+/-0.030 χ^2/NDF : 4877956.2/44

Out: 215.809+/-0.030 χ^2/NDF : 4278421.7/50

All: 212.145+/-0.021 χ^2/NDF : 9187509.7/95

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -37.198 ± 70.303 χ^2/NDF : 2291.3/21

Left Out: 725.250 ± 52.307 χ^2/NDF : 1883.1/24

Right Out: 592.664 ± 65.702 χ^2/NDF : 3781.4/25

Left In: 370.408 ± 50.884 χ^2/NDF : 1223.2/22

Left: 542.938 ± 36.473 χ^2/NDF : 3129.9/47

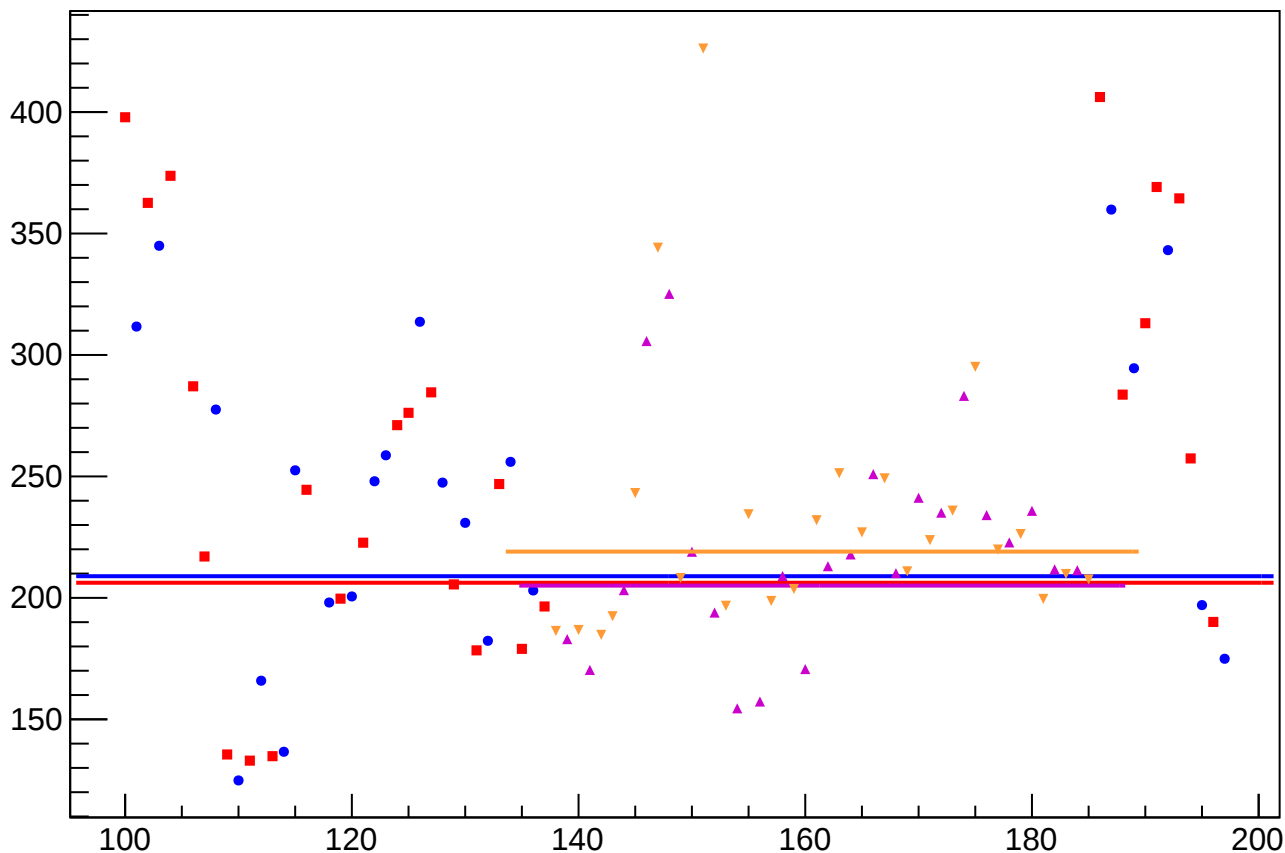
Right: 299.016 ± 48.002 χ^2/NDF : 6115.6/47

In: 230.282 ± 41.220 χ^2/NDF : 3536.6/44

Out: 673.815 ± 40.922 χ^2/NDF : 5667.0/50

All: 453.658 ± 29.041 χ^2/NDF : 9261.9/95

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 208.920 $\pm$ 0.050 χ^2 /NDF: 1418657.3/21

Left Out: 219.049 $\pm$ 0.037 χ^2 /NDF:975564.4/24

Right Out: 206.228 $\pm$ 0.046 χ^2 /NDF: 2257557.1/25

Left In: 205.046 $\pm$ 0.036 χ^2 /NDF:1144197.1/22

Left: 211.855 $\pm$ 0.026 χ^2 /NDF: 2193394.9/47

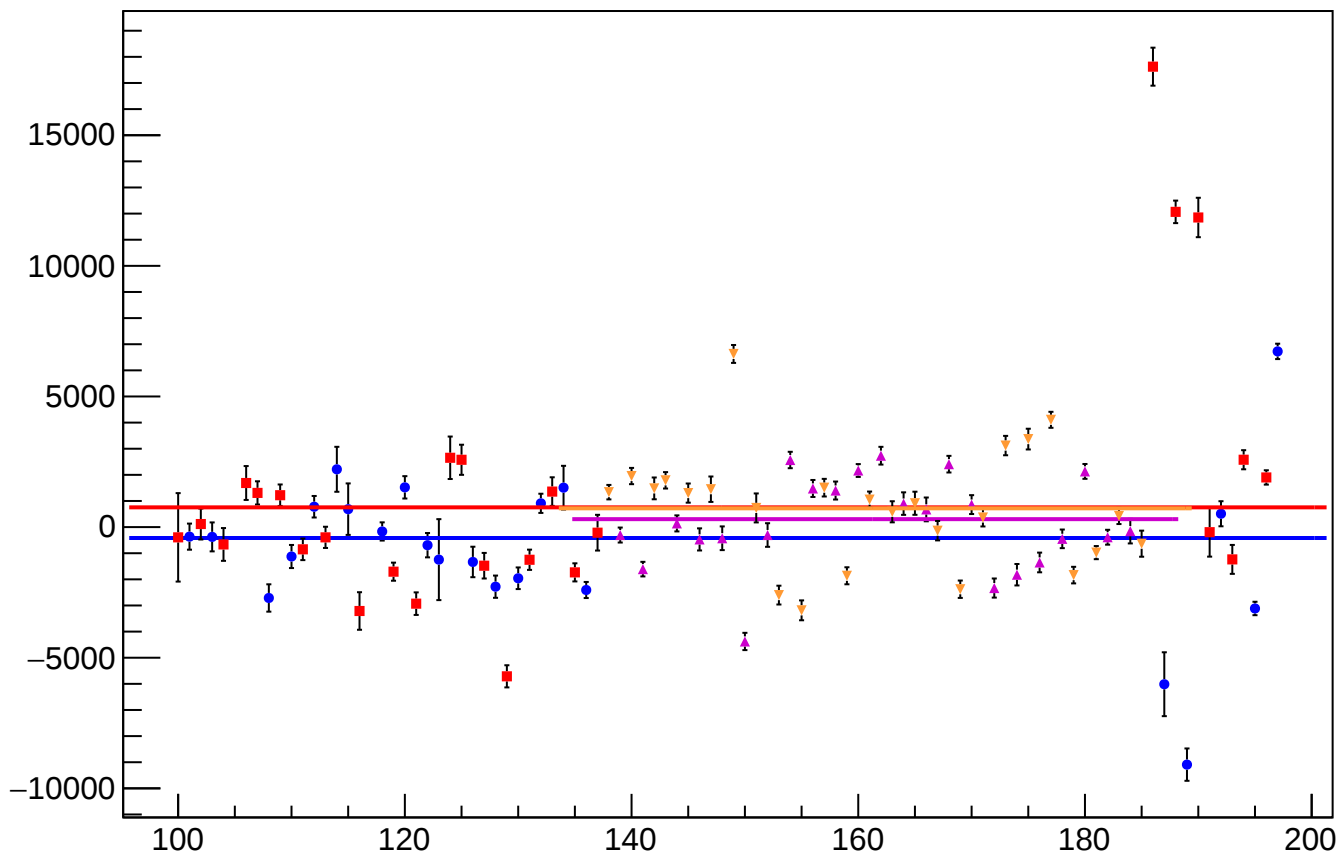
Right: 207.483 $\pm$ 0.034 χ^2 /NDF: 3677779.9/47

In: 206.378 $\pm$ 0.029 χ^2 /NDF:2566839.2/44

Out: 214.075 $\pm$ 0.029 χ^2 /NDF:3279731.1/50

All: 210.255 $\pm$ 0.021 χ^2 /NDF: 5881689.6/95

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -417.331 $\pm$ 94.917 χ^2/NDF : 1078.3/21

Left Out: 718.705 $\pm$ 69.601 χ^2/NDF :1018.5/24

Right Out: 755.748 $\pm$ 93.017 χ^2/NDF : 2038.5/25

Left In: 304.161 $\pm$ 70.958 χ^2/NDF :643.5/22

Left: 515.435 $\pm$ 49.688 χ^2/NDF : 1679.4/47

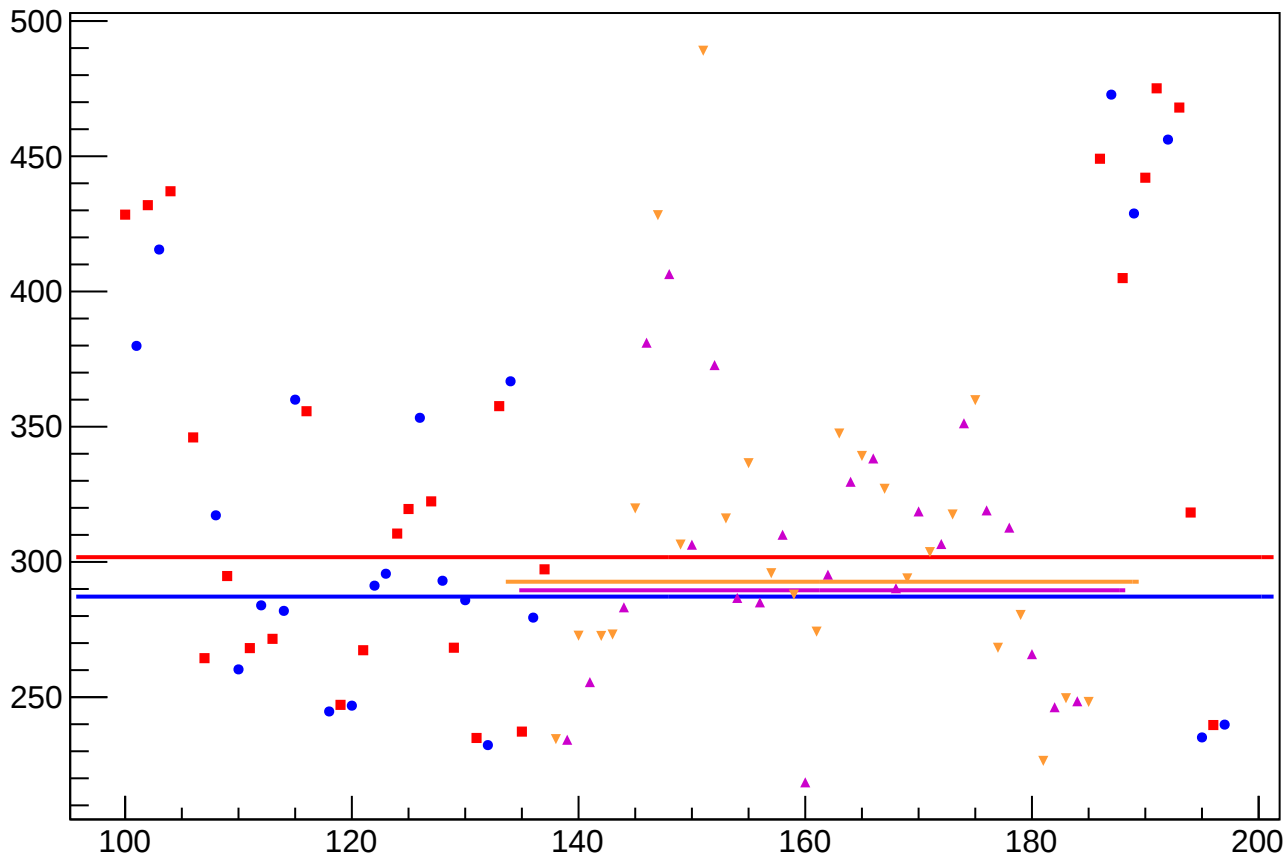
Right: 181.067 $\pm$ 66.434 χ^2/NDF : 3194.7/47

In: 45.498 $\pm$ 56.832 χ^2/NDF :1758.8/44

Out: 732.001 $\pm$ 55.727 χ^2/NDF :3057.2/50

All: 395.489 $\pm$ 39.790 χ^2/NDF : 4890.4/95

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 287.183 ± 0.067 χ^2/NDF : 871751.7/21

Left Out: 292.686 ± 0.049 χ^2/NDF : 925193.6/24

Right Out: 301.765 ± 0.066 χ^2/NDF : 1111892.8/25

Left In: 289.522 ± 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 ± 0.035 χ^2/NDF : 1705121.5/47

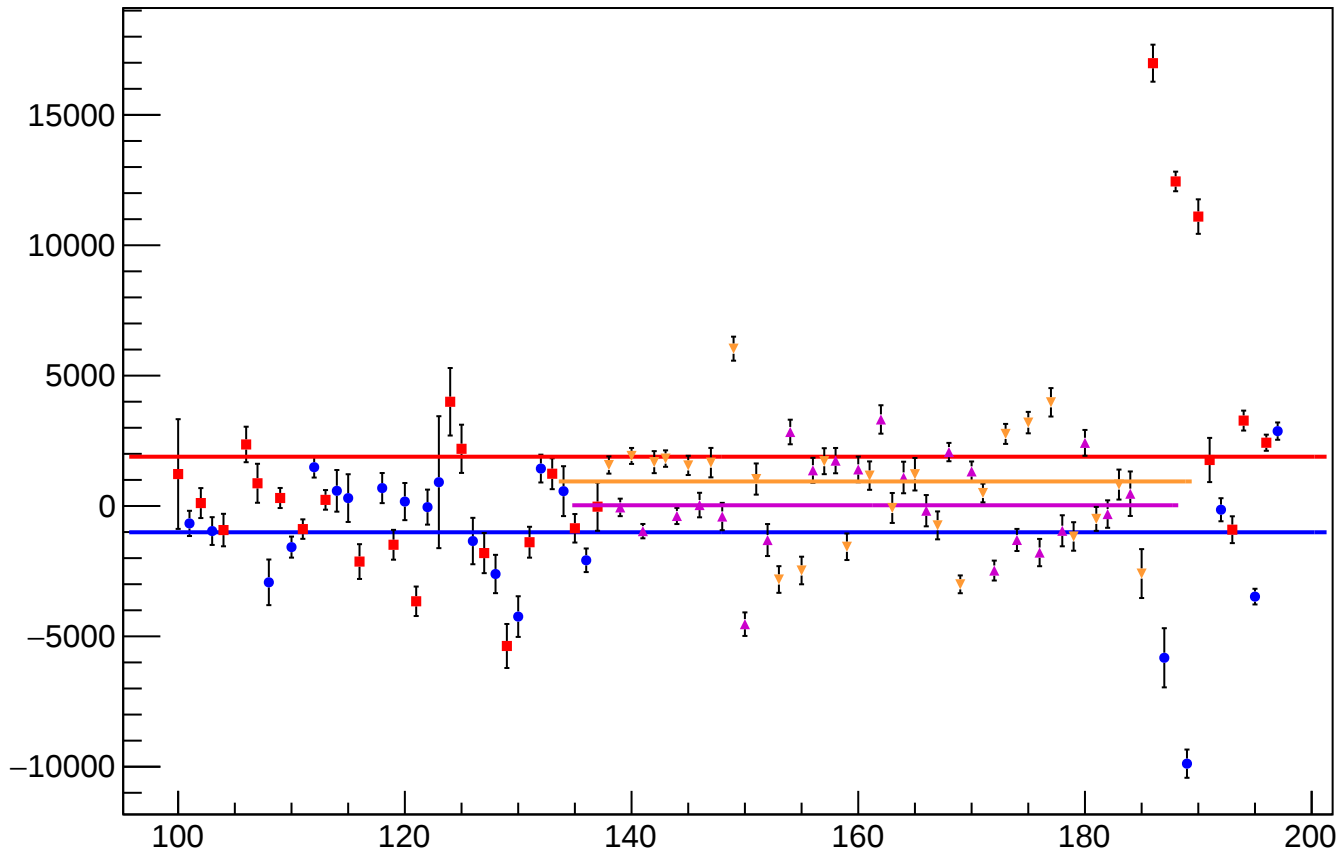
Right: 294.621 ± 0.047 χ^2/NDF : 2007724.7/47

In: 288.683 ± 0.040 χ^2/NDF : 1650431.6/44

Out: 295.945 ± 0.039 χ^2/NDF : 2049302.1/50

All: 292.385 ± 0.028 χ^2/NDF : 3716379.8/95

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -1007.785 $\pm$ 115.205 χ^2/NDF : 612.1/21

Left Out: 941.598 $\pm$ 89.119 χ^2/NDF : 544.6/24

Right Out: 1890.221 $\pm$ 106.561 χ^2/NDF : 1932.9/25

Left In: 27.763 $\pm$ 92.331 χ^2/NDF : 362.5/22

Left: 500.853 $\pm$ 64.122 χ^2/NDF : 957.8/47

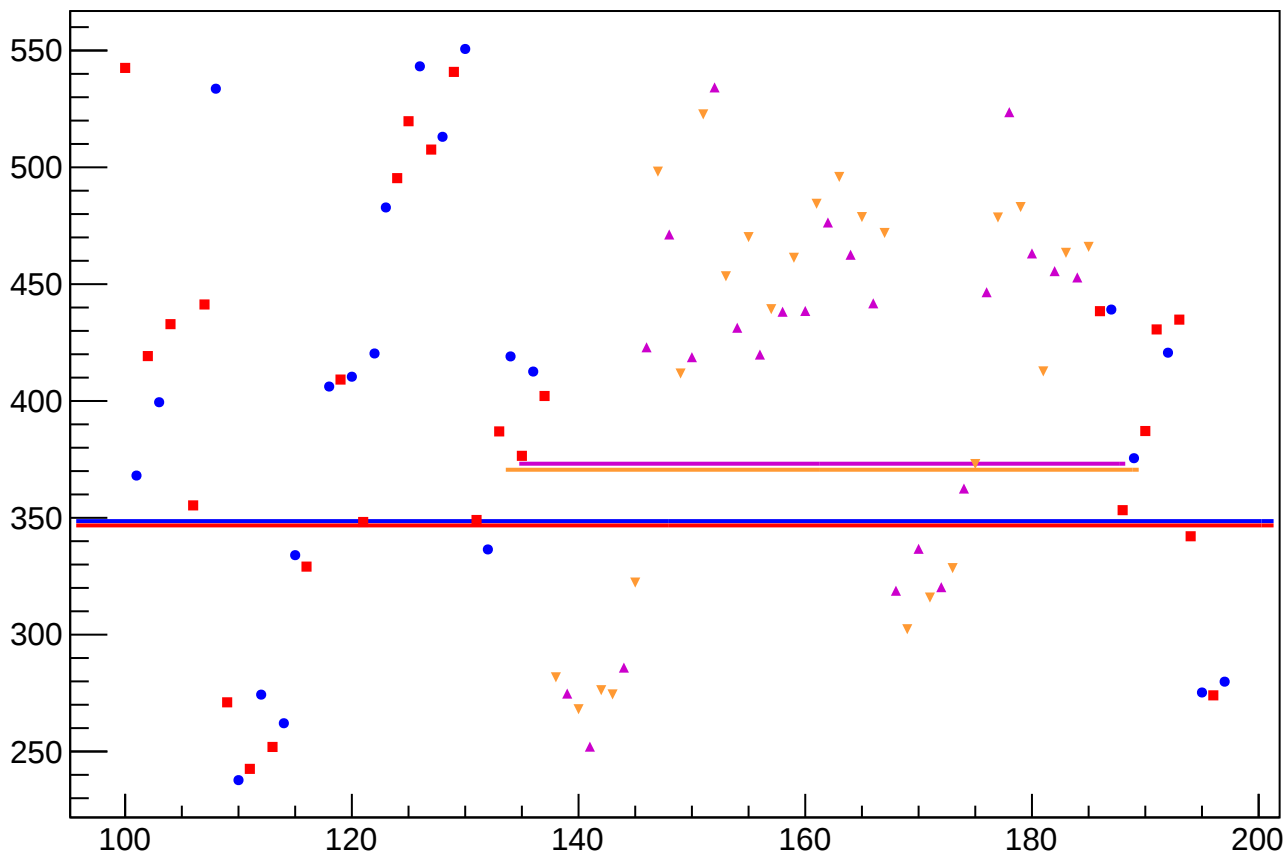
Right: 554.003 $\pm$ 78.228 χ^2/NDF : 2886.0/47

In: -377.248 $\pm$ 72.047 χ^2/NDF : 1023.8/44

Out: 1332.021 $\pm$ 68.363 χ^2/NDF : 2524.1/50

All: 522.212 $\pm$ 49.591 χ^2/NDF : 3844.1/95

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 348.595+/-0.081 χ^2/NDF : 1076480.6/21

Left Out: 370.580+/-0.063 χ^2/NDF : 1878118.9/24

Right Out: 346.752+/-0.075 χ^2/NDF : 1046791.6/25

Left In: 373.161+/-0.065 χ^2/NDF : 1636244.2/22

Left: 371.824+/-0.045 χ^2/NDF : 3515172.3/47

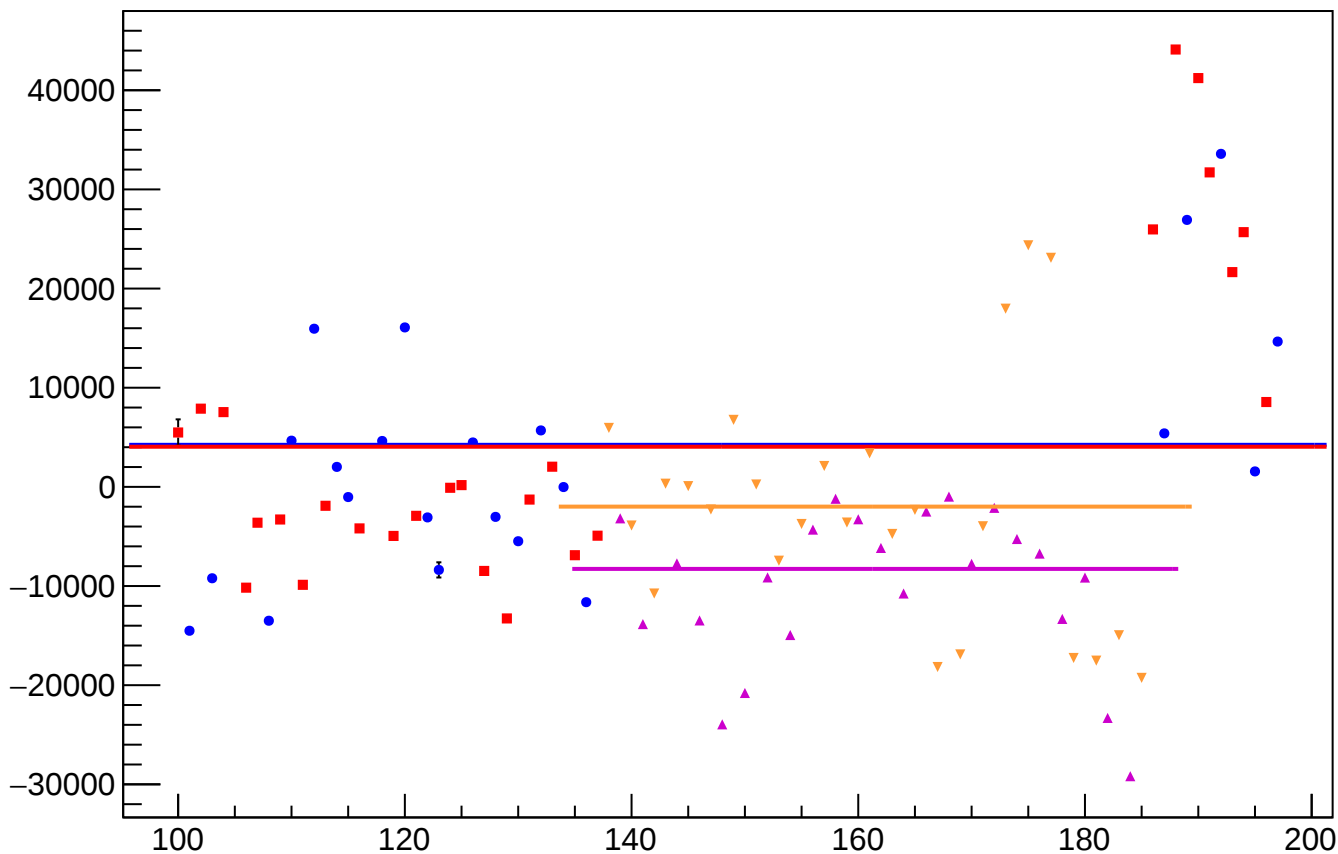
Right: 347.602+/-0.055 χ^2/NDF : 2123547.8/47

In: 363.553+/-0.051 χ^2/NDF : 2768098.3/44

Out: 360.773+/-0.048 χ^2/NDF : 2983751.0/50

All: 362.090+/-0.035 χ^2/NDF : 5753415.8/95

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 4240.789+/-48.060 χ^2/NDF : 70934.3/21

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 4049.137+/-44.802 χ^2/NDF : 126987.7/25

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

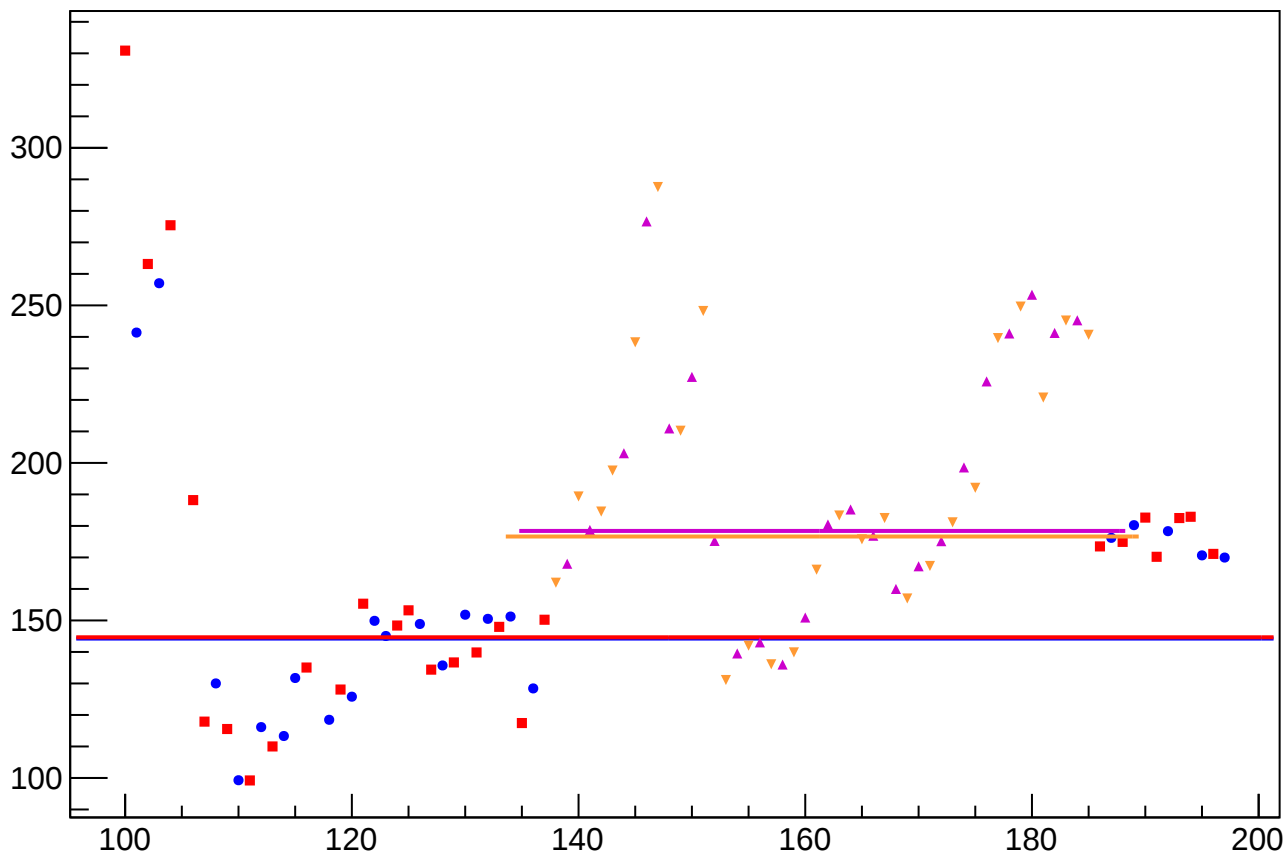
Right: 4138.247+/-32.771 χ^2/NDF : 197930.6/47

In: -2524.718+/-32.574 χ^2/NDF : 130458.5/44

Out: 864.281+/-30.806 χ^2/NDF : 200339.3/50

All: -735.761+/-22.382 χ^2/NDF : 336511.8/95

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 144.251+/-0.034 χ^2/NDF : 899396.0/21

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 144.652+/-0.032 χ^2/NDF : 1221837.7/25

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

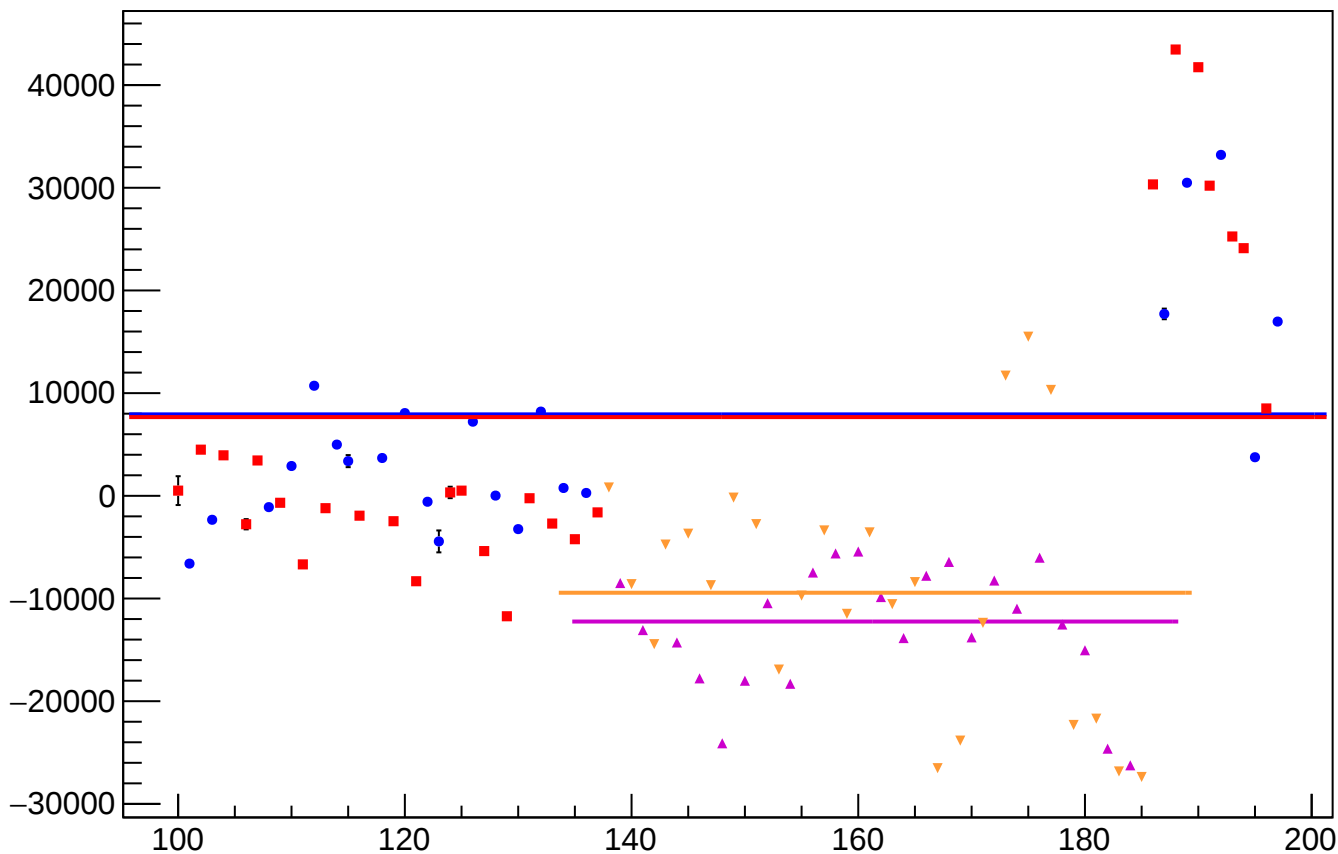
Right: 144.466+/-0.023 χ^2/NDF : 2121308.3/47

In: 162.720+/-0.023 χ^2/NDF :2739449.1/44

Out: 161.517+/-0.022 χ^2/NDF :3310411.7/50

All: 162.085+/-0.016 χ^2/NDF : 6051301.7/95

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7932.653+/-58.102 χ^2/NDF : 33338.7/21

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 7667.264+/-53.252 χ^2/NDF : 95981.8/25

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

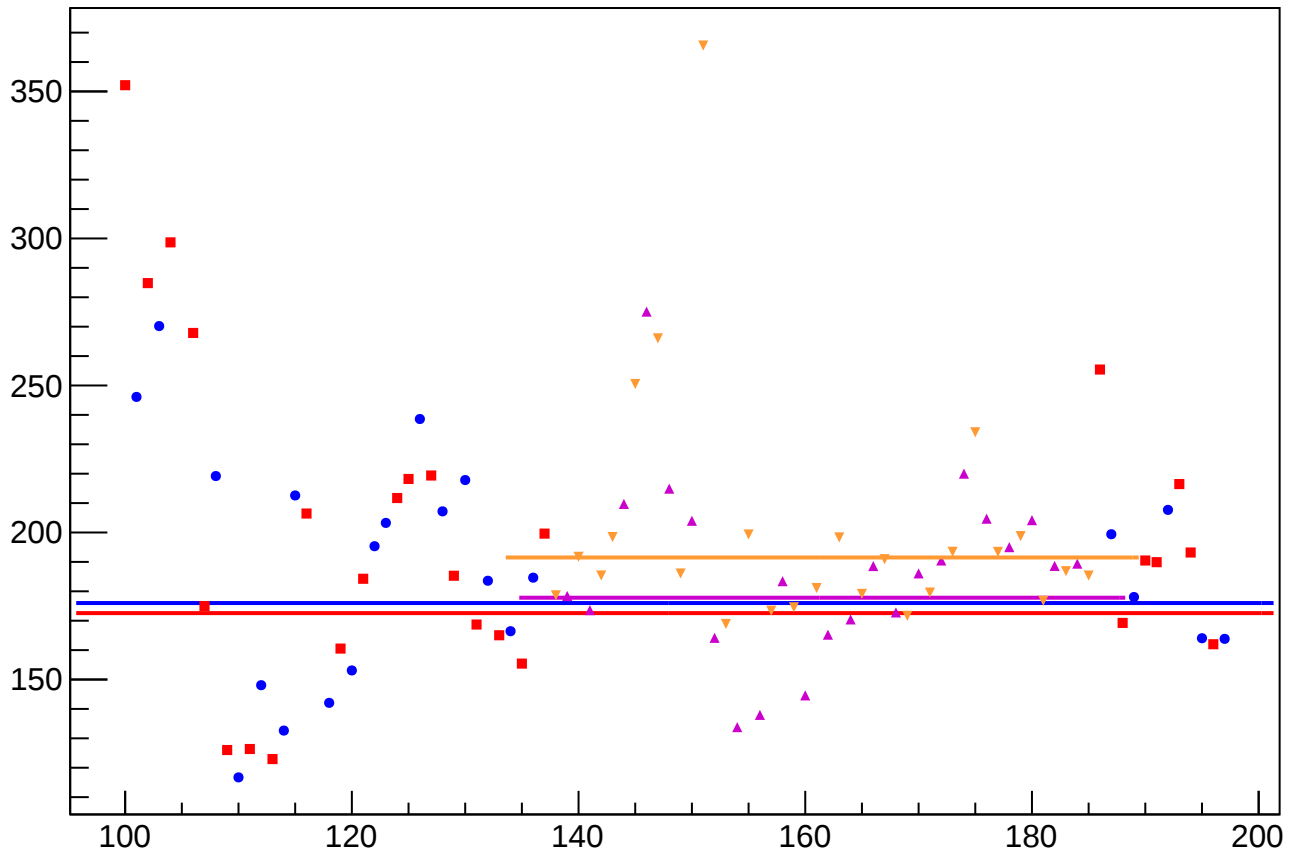
Right: 7788.421+/-39.258 χ^2/NDF : 129331.8/47

In: -4901.001+/-35.049 χ^2/NDF : 126650.3/44

Out: -2213.304+/-34.608 χ^2/NDF : 217798.7/50

All: -3540.132+/-24.626 χ^2/NDF : 347426.5/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.010 $\pm$ 0.041 χ^2 /NDF: 750925.5/21

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 172.584 $\pm$ 0.038 χ^2 /NDF: 1119819.8/25

Left In: 177.821 $\pm$ 0.031 χ^2 /NDF: 862494.4/22

Left: 184.421 $\pm$ 0.022 χ^2 /NDF: 1683284.8/47

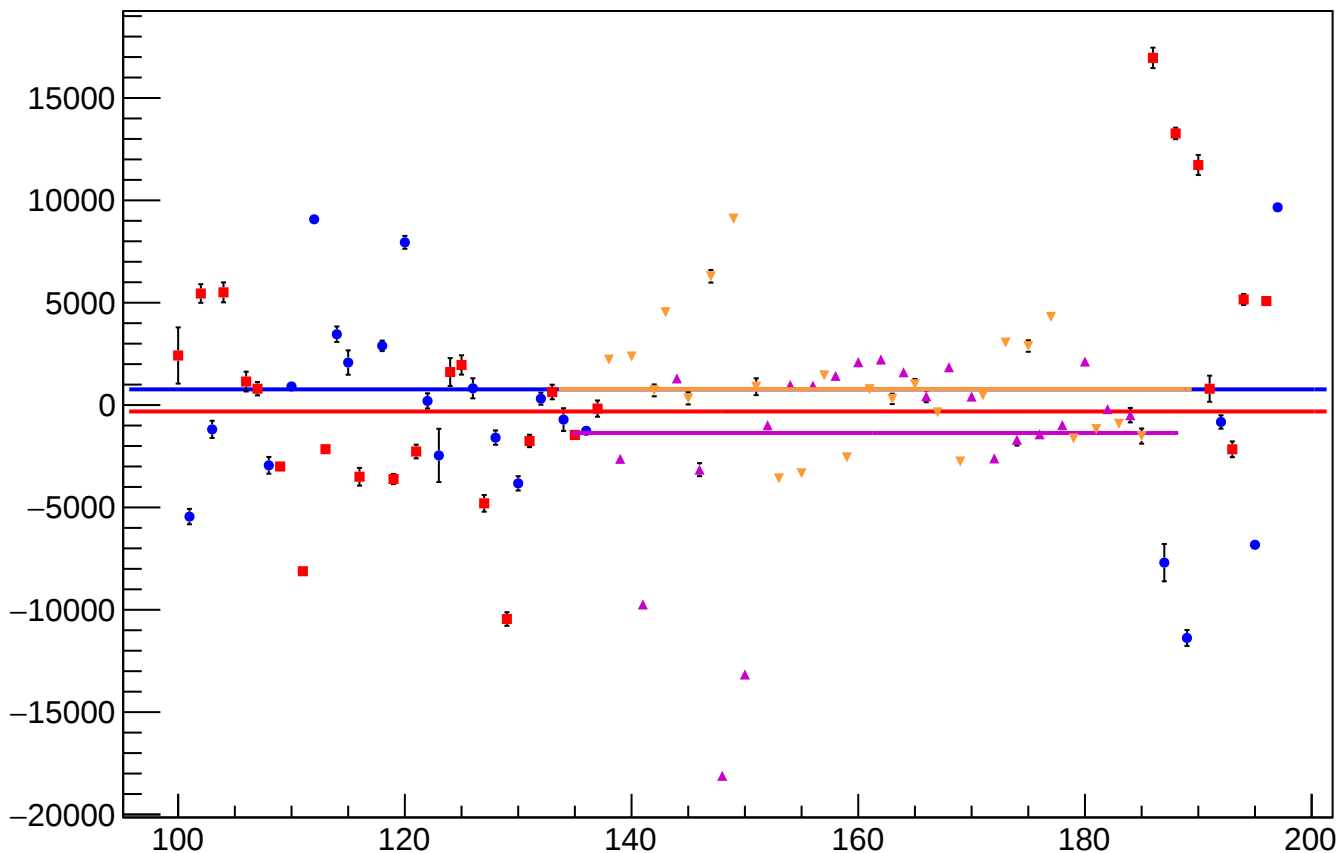
Right: 174.148 $\pm$ 0.028 χ^2 /NDF: 1874525.5/47

In: 177.162 $\pm$ 0.025 χ^2 /NDF: 1614656.1/44

Out: 183.515 $\pm$ 0.024 χ^2 /NDF: 1992951.4/50

All: 180.379 $\pm$ 0.017 χ^2 /NDF: 3640872.0/95

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 767.204+/-65.545 χ^2/NDF : 7071.7/21

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -312.459+/-60.525 χ^2/NDF : 9002.5/25

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

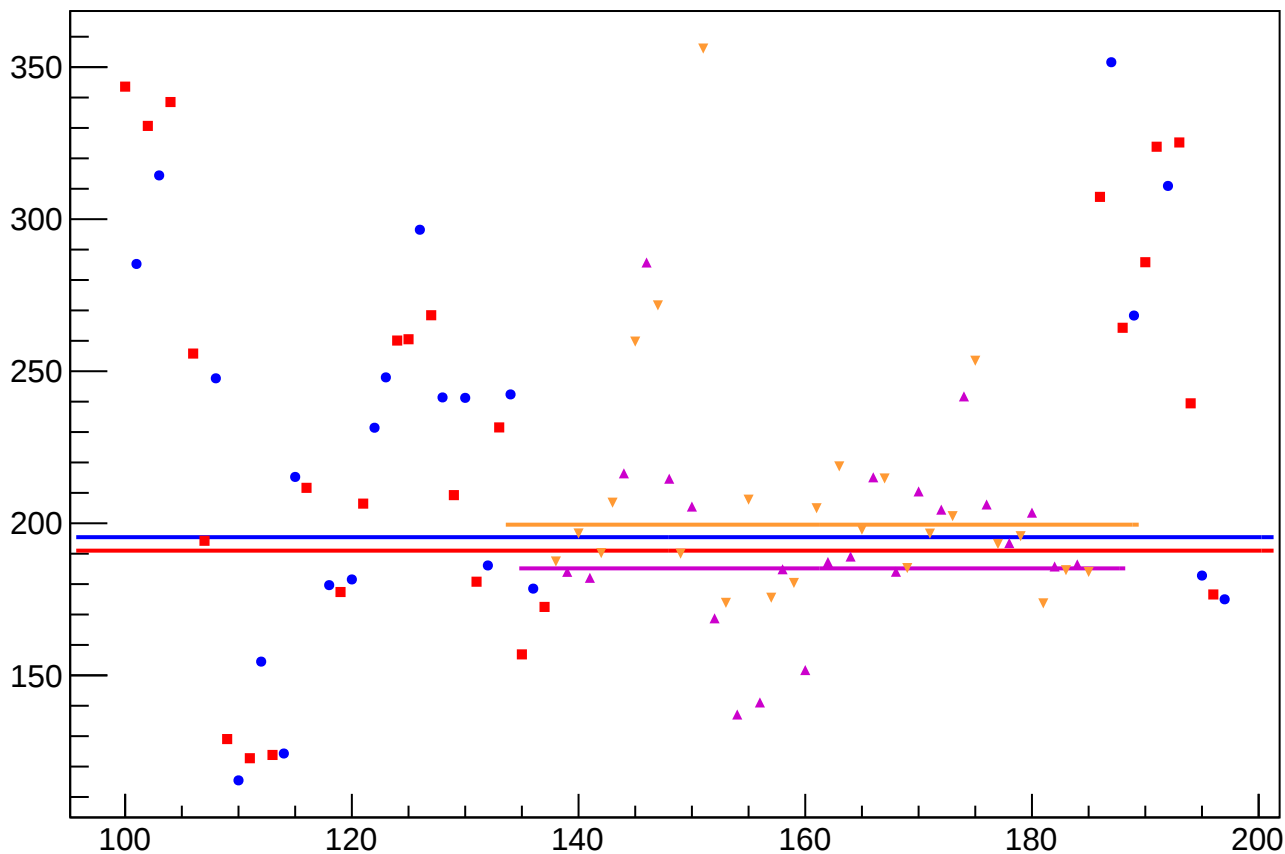
Right: 184.447+/-44.467 χ^2/NDF : 16220.7/47

In: -664.031+/-37.546 χ^2/NDF : 19414.3/44

Out: 364.058+/-37.346 χ^2/NDF : 13465.0/50

All: -147.234+/-26.478 χ^2/NDF : 33256.2/95

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 195.435 +/- 0.046 χ^2/NDF : 1394457.9/21

Left Out: 199.547 +/- 0.034 χ^2/NDF : 729356.3/24

Right Out: 191.002 +/- 0.043 χ^2/NDF : 2124066.6/25

Left In: 185.171 +/- 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 +/- 0.023 χ^2/NDF : 1707122.0/47

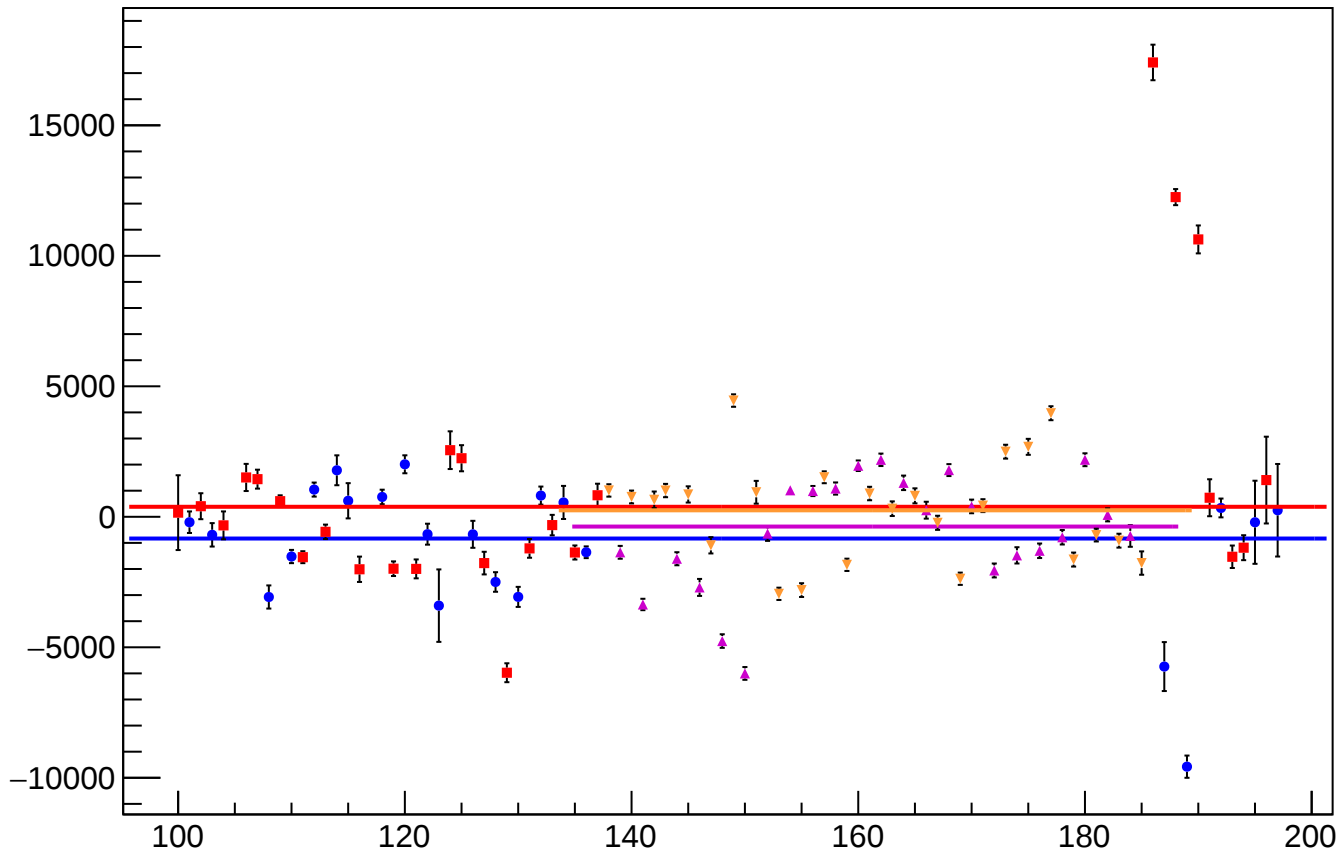
Right: 193.042 +/- 0.031 χ^2/NDF : 3523461.6/47

In: 188.539 +/- 0.027 χ^2/NDF : 2310162.6/44

Out: 196.294 +/- 0.026 χ^2/NDF : 2878106.8/50

All: 192.437 +/- 0.019 χ^2/NDF : 5231158.1/95

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -832.754 ± 83.944 $\chi^2/\text{NDF}: 760.0/21$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 383.667 ± 75.340 $\chi^2/\text{NDF}: 3162.2/25$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

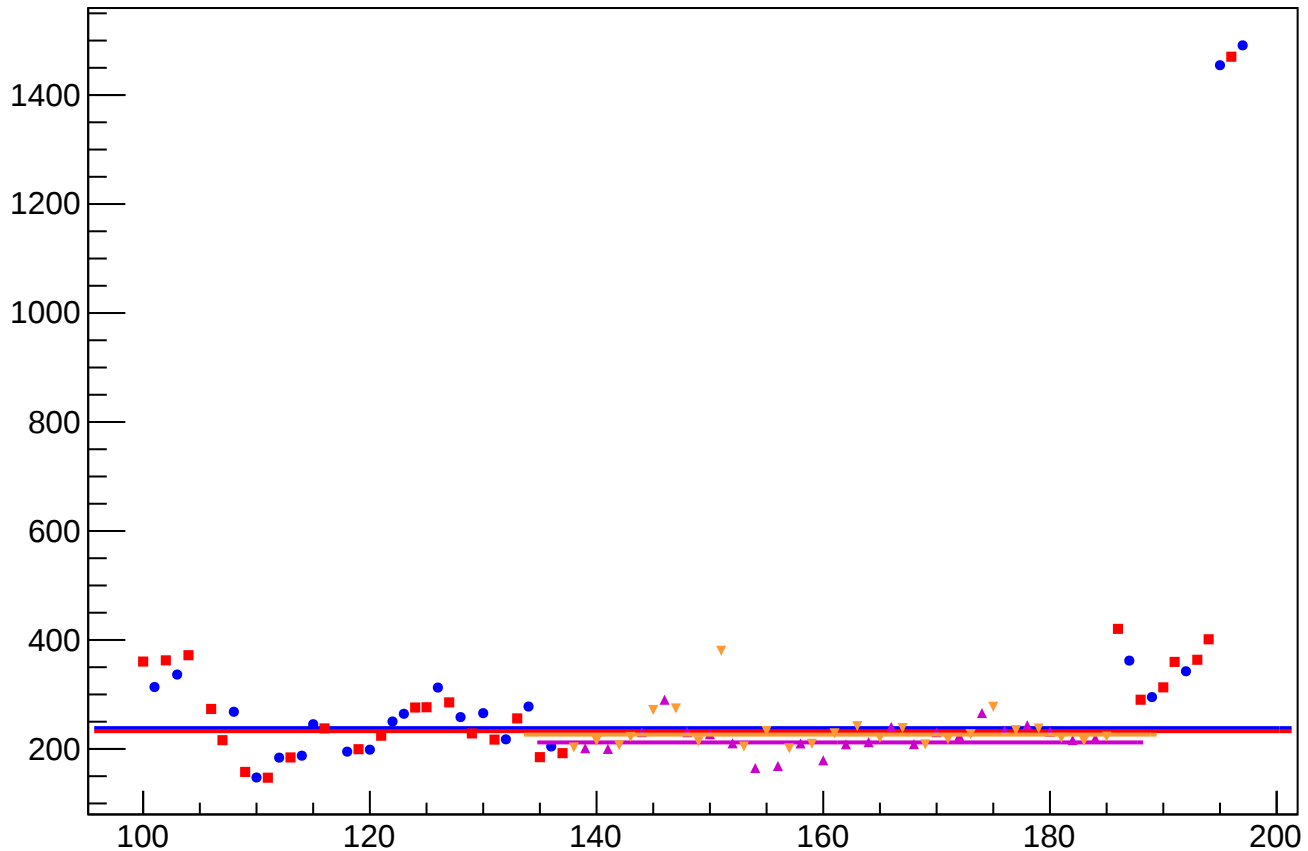
Right: -159.022 ± 56.069 $\chi^2/\text{NDF}: 4038.4/47$

In: -501.481 ± 44.236 $\chi^2/\text{NDF}: 2582.6/44$

Out: 293.437 ± 43.650 $\chi^2/\text{NDF}: 4519.4/50$

All: -98.727 ± 31.070 $\chi^2/\text{NDF}: 7265.6/95$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 238.192+/-0.059 χ^2/NDF : 3123082.0/21

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 232.680+/-0.053 χ^2/NDF : 2913252.4/25

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

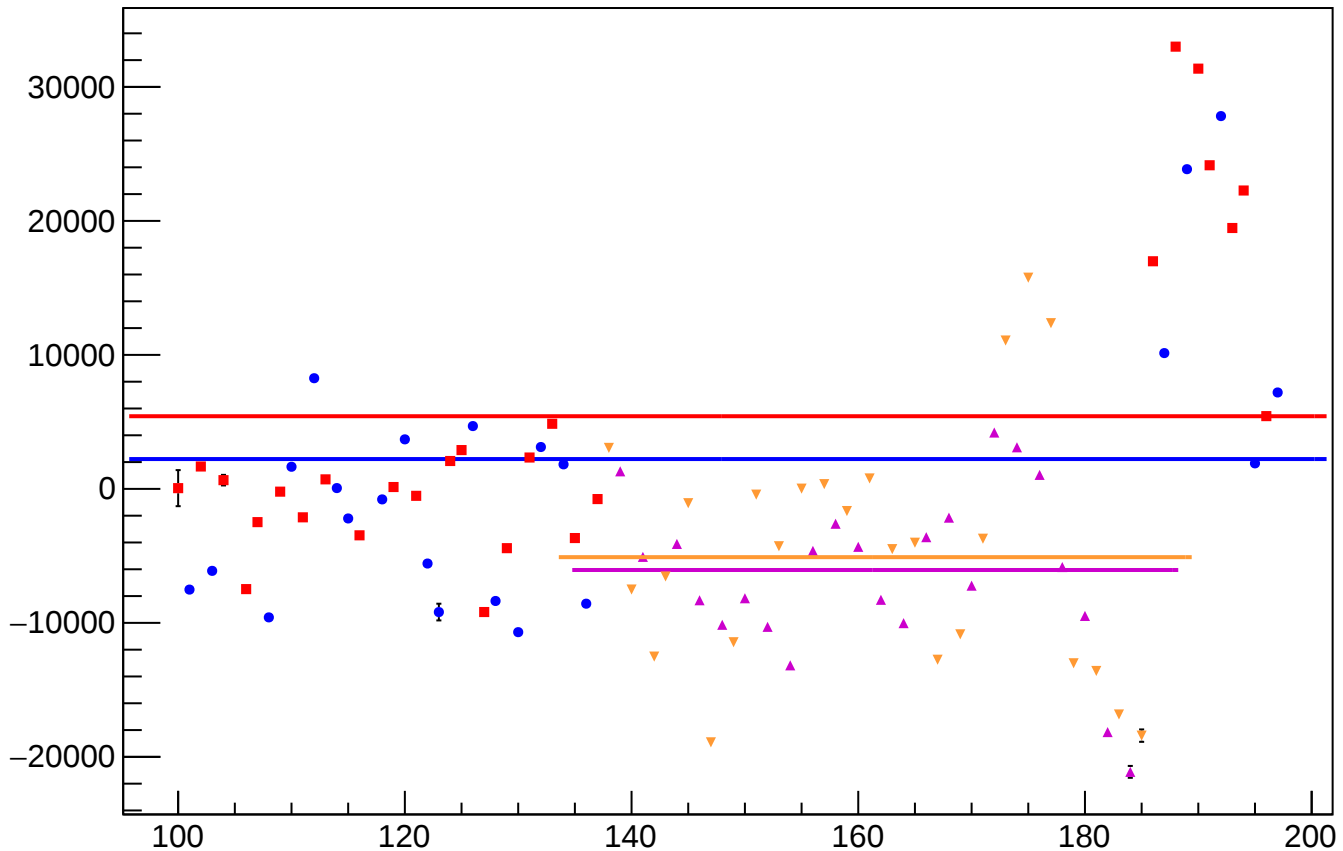
Right: 235.139+/-0.040 χ^2/NDF : 6041110.4/47

In: 219.252+/-0.031 χ^2/NDF : 3848385.0/44

Out: 228.456+/-0.031 χ^2/NDF : 3443757.1/50

All: 223.915+/-0.022 χ^2/NDF : 7336014.0/95

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 2226.329±/40.889 χ^2/NDF : 67216.7/21

Left Out: -5095.305±/33.703 χ^2/NDF :54395.4/24

Right Out: 5422.762±/37.754 χ^2/NDF : 99652.5/25

Left In: -6053.569±/34.998 χ^2/NDF :17590.3/22

Left: -5556.386±/24.277 χ^2/NDF : 72374.6/47

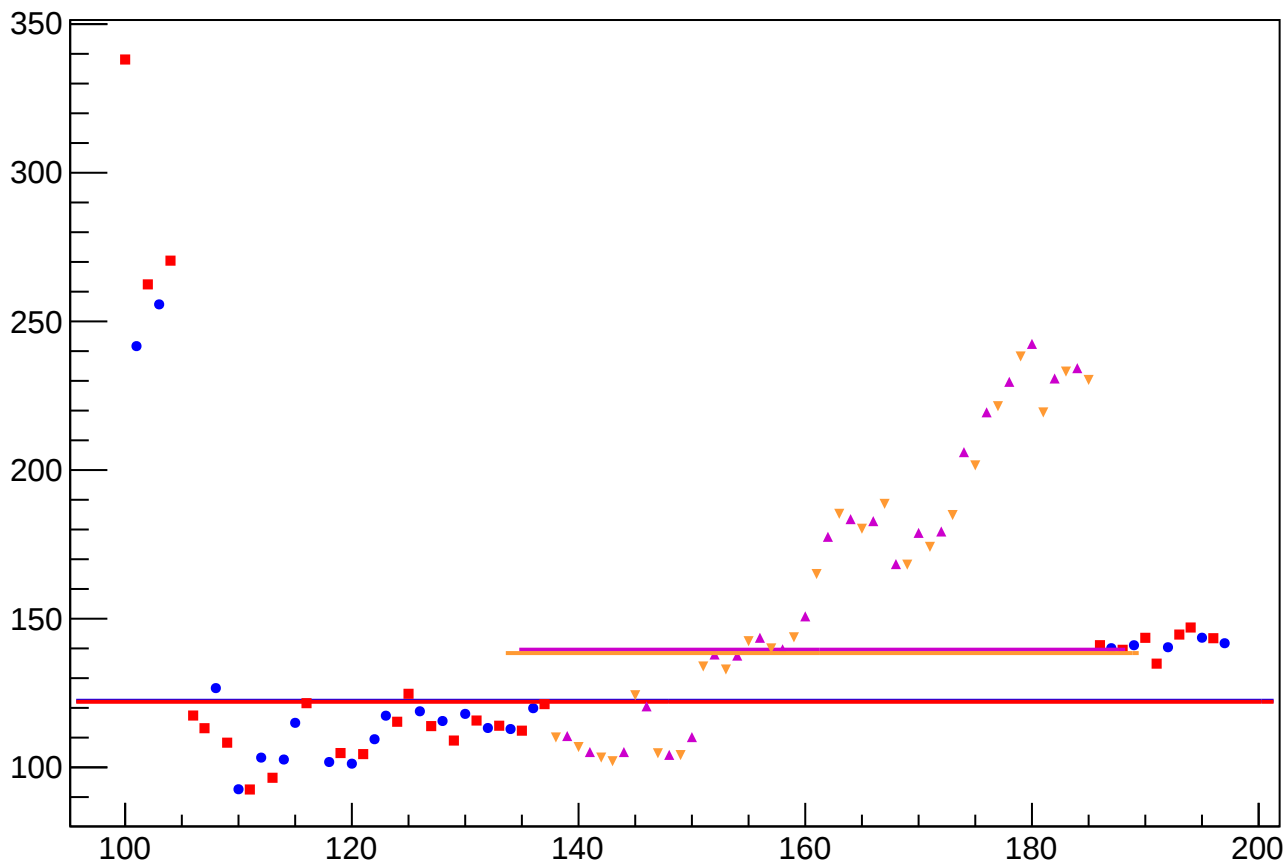
Right: 3951.771±/27.739 χ^2/NDF : 170167.9/47

In: -2552.565±/26.589 χ^2/NDF :108473.3/44

Out: -430.609±/25.143 χ^2/NDF :197240.6/50

All: -1432.319±/18.268 χ^2/NDF : 309076.3/9

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 122.395+/-0.029 χ^2/NDF : 896815.7/21

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 122.058+/-0.027 χ^2/NDF : 1050050.8/25

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

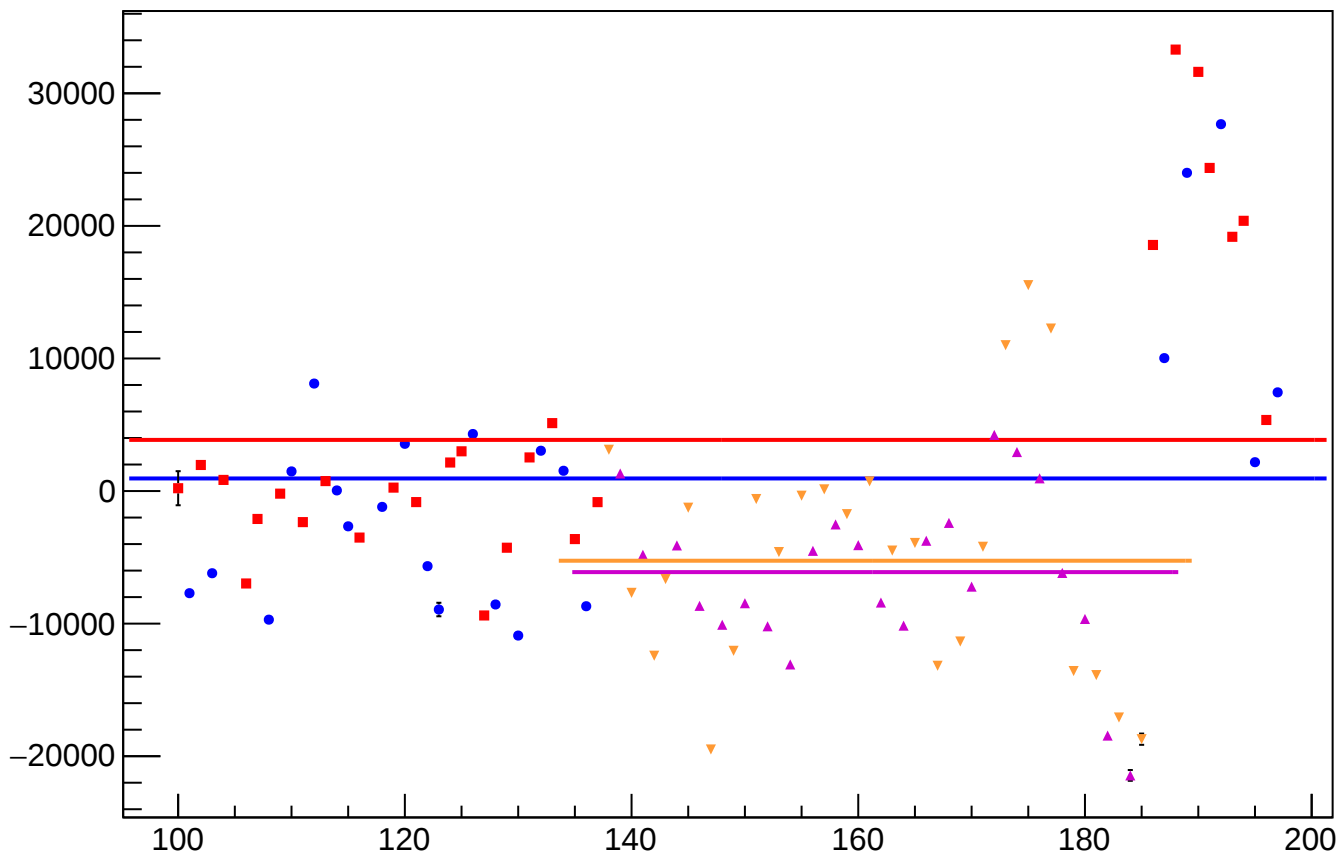
Right: 122.213+/-0.020 χ^2/NDF : 1946939.9/47

In: 132.312+/-0.019 χ^2/NDF : 3514313.2/44

Out: 131.172+/-0.018 χ^2/NDF : 3808932.3/50

All: 131.710+/-0.013 χ^2/NDF : 7325186.8/95

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 949.476+/-35.939 χ^2/NDF : 72413.0/21

Left Out: -5255.652+/-30.622 χ^2/NDF : 64324.6/24

Right Out: 3858.007+/-33.439 χ^2/NDF : 107060.1/25

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166 χ^2/NDF : 85960.3/47

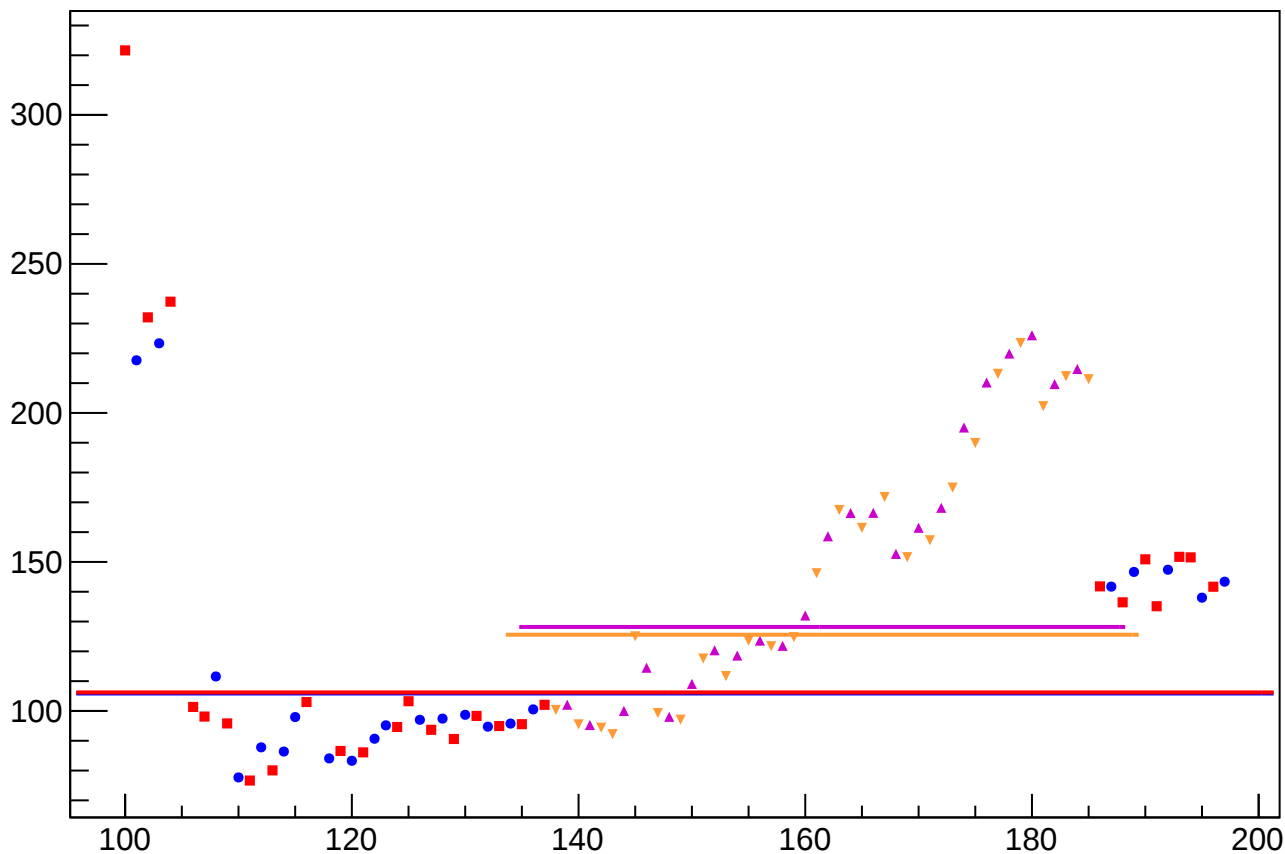
Right: 2508.437+/-24.481 χ^2/NDF : 182983.6/47

In: -2977.297+/-23.951 χ^2/NDF : 115150.6/44

Out: -1098.788+/-22.583 χ^2/NDF : 211785.8/50

All: -1982.858+/-16.431 χ^2/NDF : 330192.7/99

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 105.859+/-0.025 χ^2/NDF : 1341244.0/21

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 106.219+/-0.024 χ^2/NDF : 1625755.0/25

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

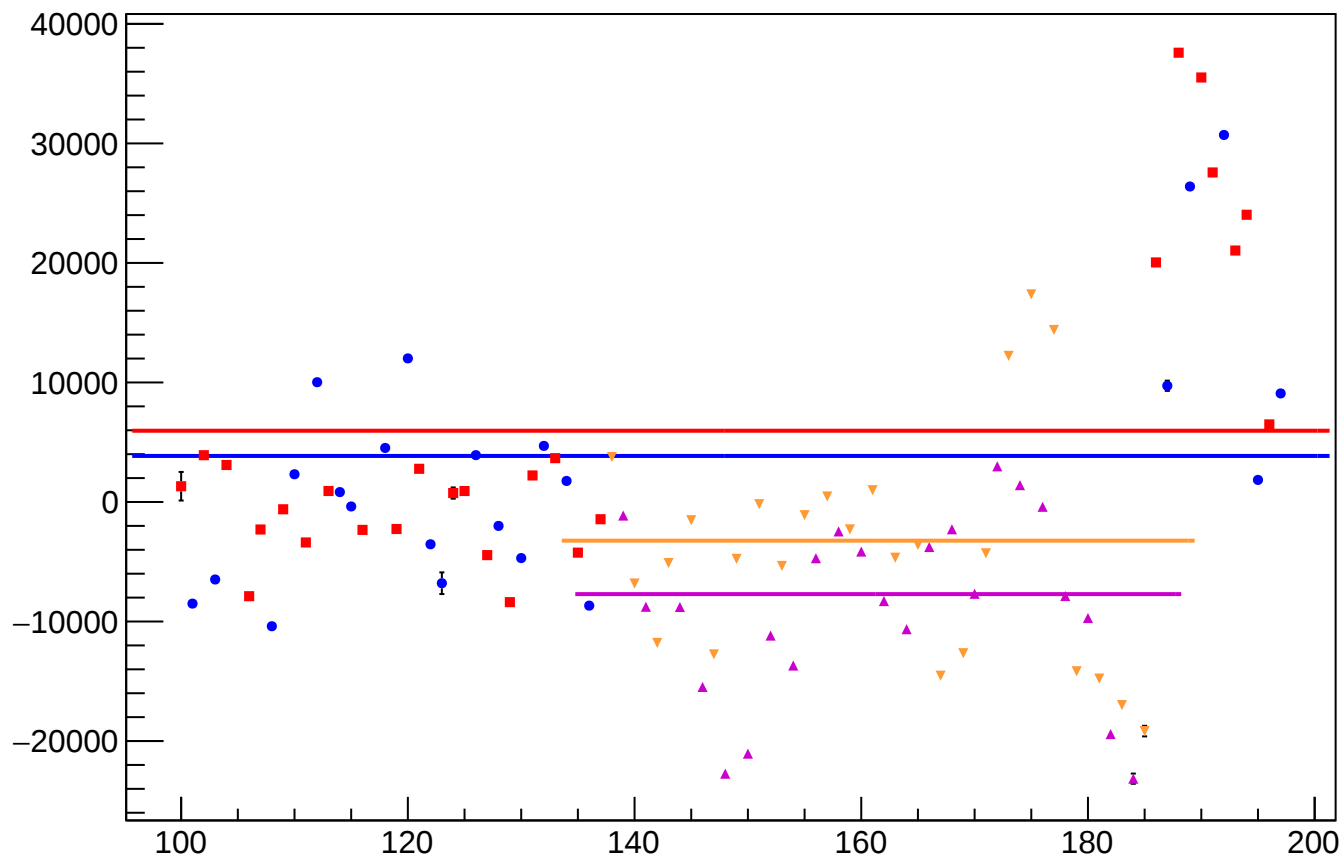
Right: 106.052+/-0.017 χ^2/NDF : 2967106.6/47

In: 118.268+/-0.017 χ^2/NDF : 4103198.3/44

Out: 116.748+/-0.016 χ^2/NDF : 4586081.3/50

All: 117.463+/-0.012 χ^2/NDF : 8693547.0/95

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 3852.978 ± 47.923 $\chi^2/\text{NDF}: 53039.4/21$

Left Out: -3234.922 ± 40.583 $\chi^2/\text{NDF}: 36739.9/24$

Right Out: 5961.892 ± 44.387 $\chi^2/\text{NDF}: 88775.5/25$

Left In: -7707.068 ± 42.990 $\chi^2/\text{NDF}: 21268.3/22$

Left: -5342.284 ± 29.511 $\chi^2/\text{NDF}: 63730.6/47$

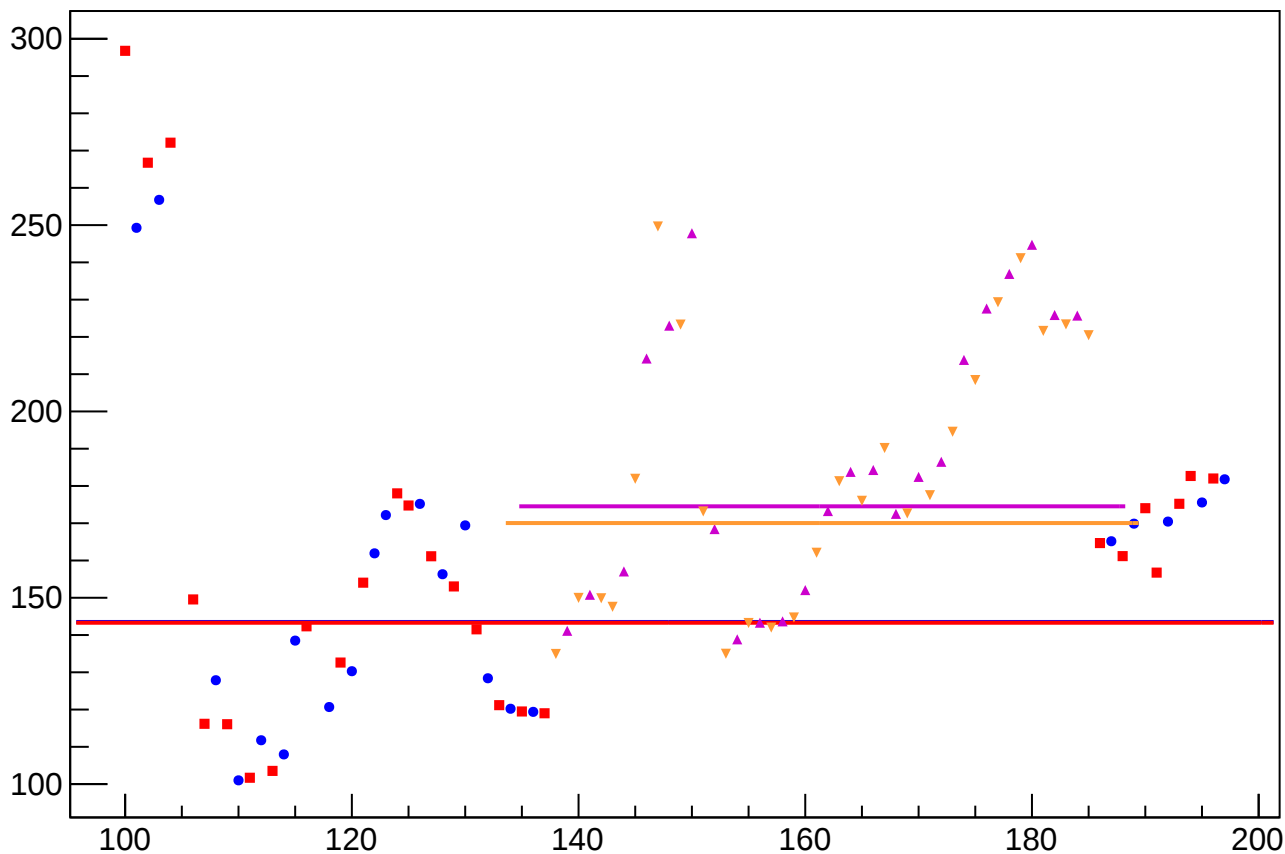
Right: 4988.102 ± 32.565 $\chi^2/\text{NDF}: 142857.3/47$

In: -2552.509 ± 32.001 $\chi^2/\text{NDF}: 106549.5/44$

Out: 952.518 ± 29.951 $\chi^2/\text{NDF}: 148898.7/50$

All: -684.152 ± 21.867 $\chi^2/\text{NDF}: 261842.9/95$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 143.503 ± 0.034 $\chi^2/\text{NDF}: 1035955.5/21$

Left Out: 170.050 ± 0.029 $\chi^2/\text{NDF}: 1240866.9/24$

Right Out: 143.299 ± 0.031 $\chi^2/\text{NDF}: 1213349.3/25$

Left In: 174.539 ± 0.030 $\chi^2/\text{NDF}: 1210071.2/22$

Left: 172.165 ± 0.021 $\chi^2/\text{NDF}: 2462472.2/47$

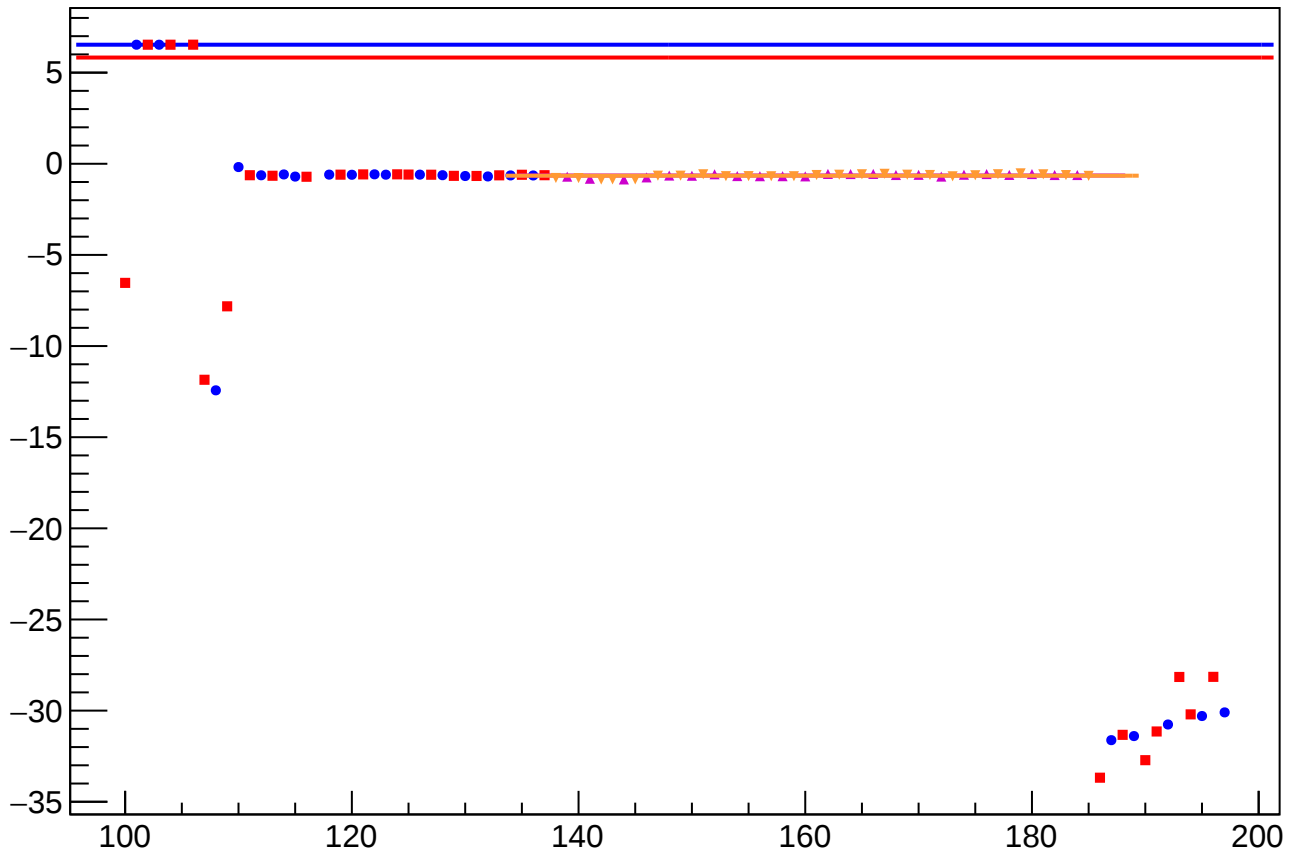
Right: 143.393 ± 0.023 $\chi^2/\text{NDF}: 2249324.2/47$

In: 160.700 ± 0.023 $\chi^2/\text{NDF}: 2710822.6/44$

Out: 157.870 ± 0.021 $\chi^2/\text{NDF}: 2849879.7/50$

All: 159.191 ± 0.015 $\chi^2/\text{NDF}: 5569044.0/95$

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127769063985.6/21

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947638282480.5/25

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

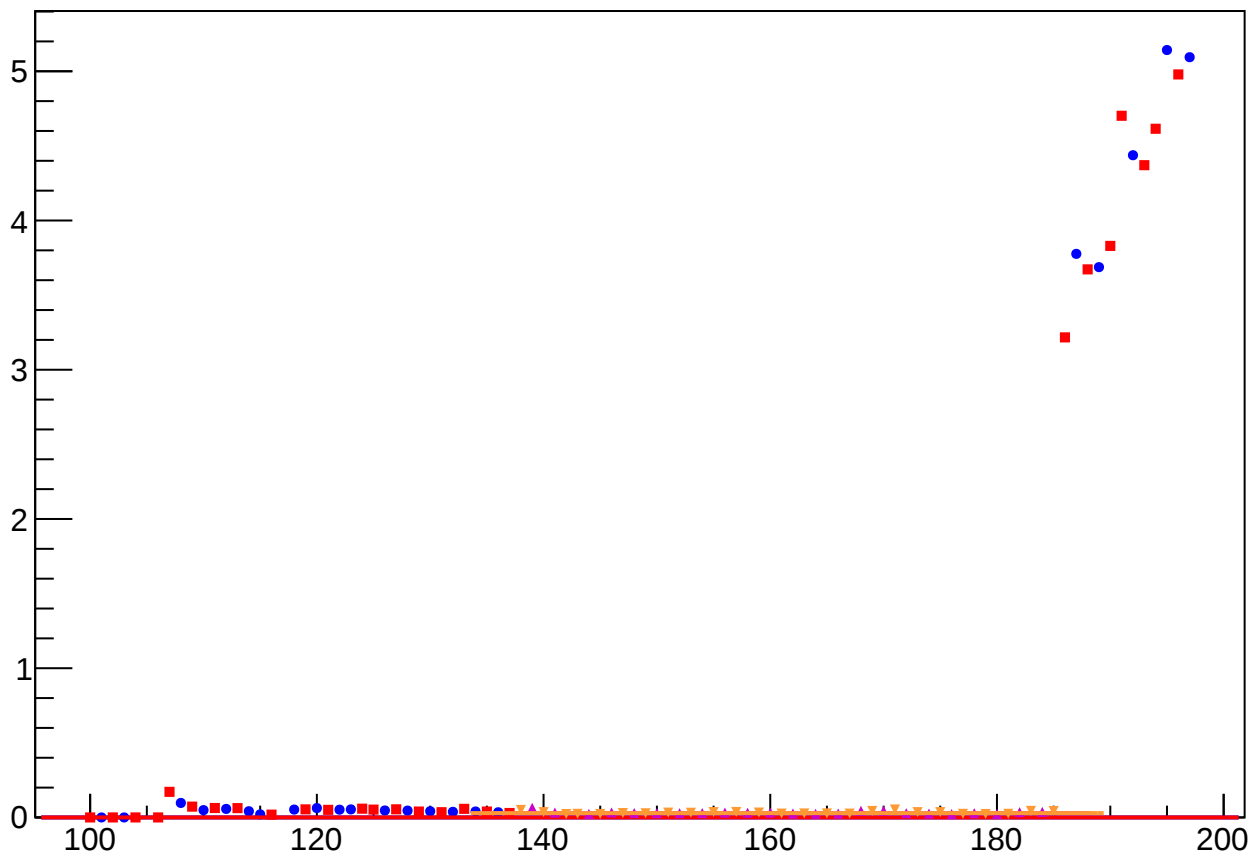
Right: 6.155+/-0.000 χ^2/NDF : 776078576356321.0/47

In: 6.530+/-0.000 χ^2/NDF : 953116465174.1/44

Out: 5.826+/-0.000 χ^2/NDF : 756656666938709.2/47

All: 6.153+/-0.000 χ^2/NDF : 77760194613070.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15017135.1/21

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 17527970.0/25

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

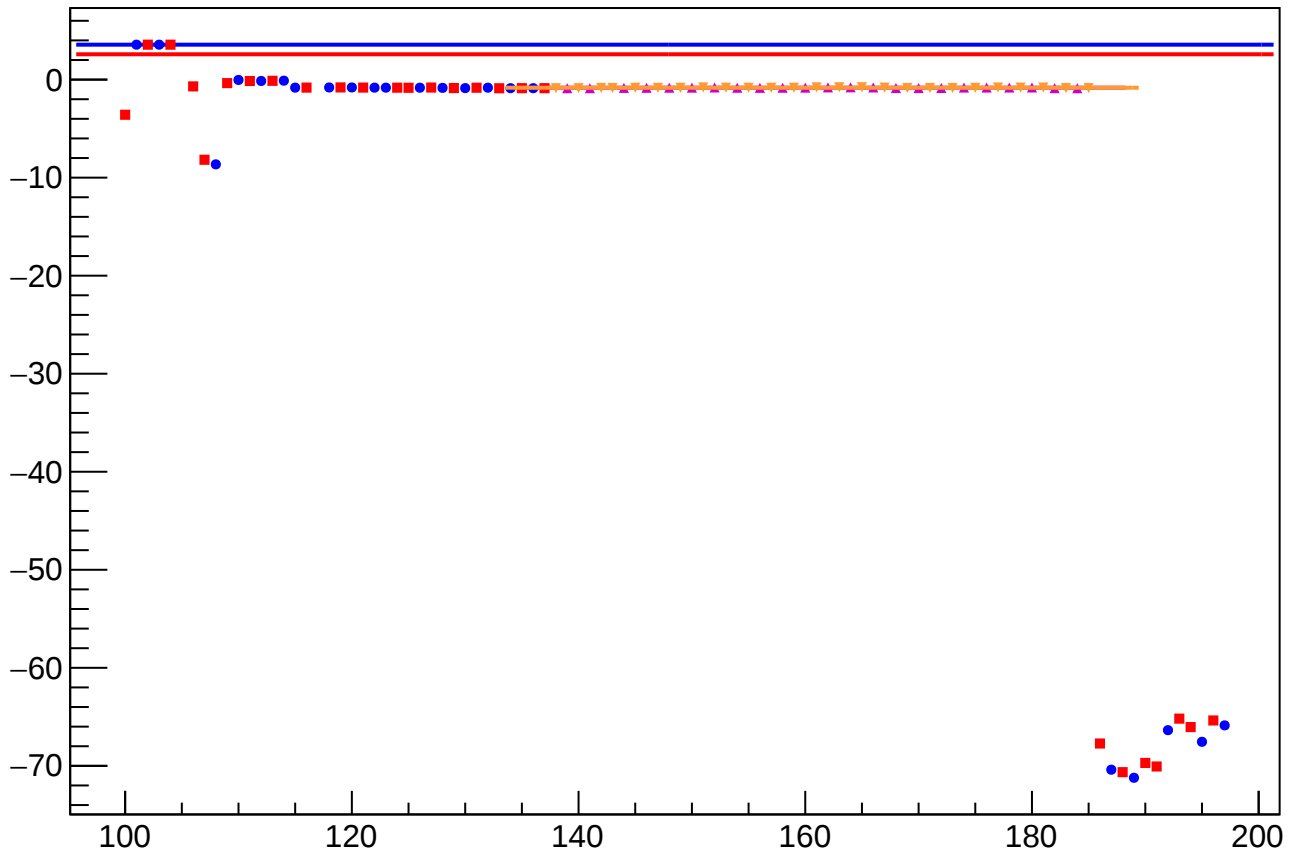
Right: 0.000+/-0.000 χ^2/NDF : 32545354.6/47

In: 0.000+/-0.000 χ^2/NDF :42978824.8/44

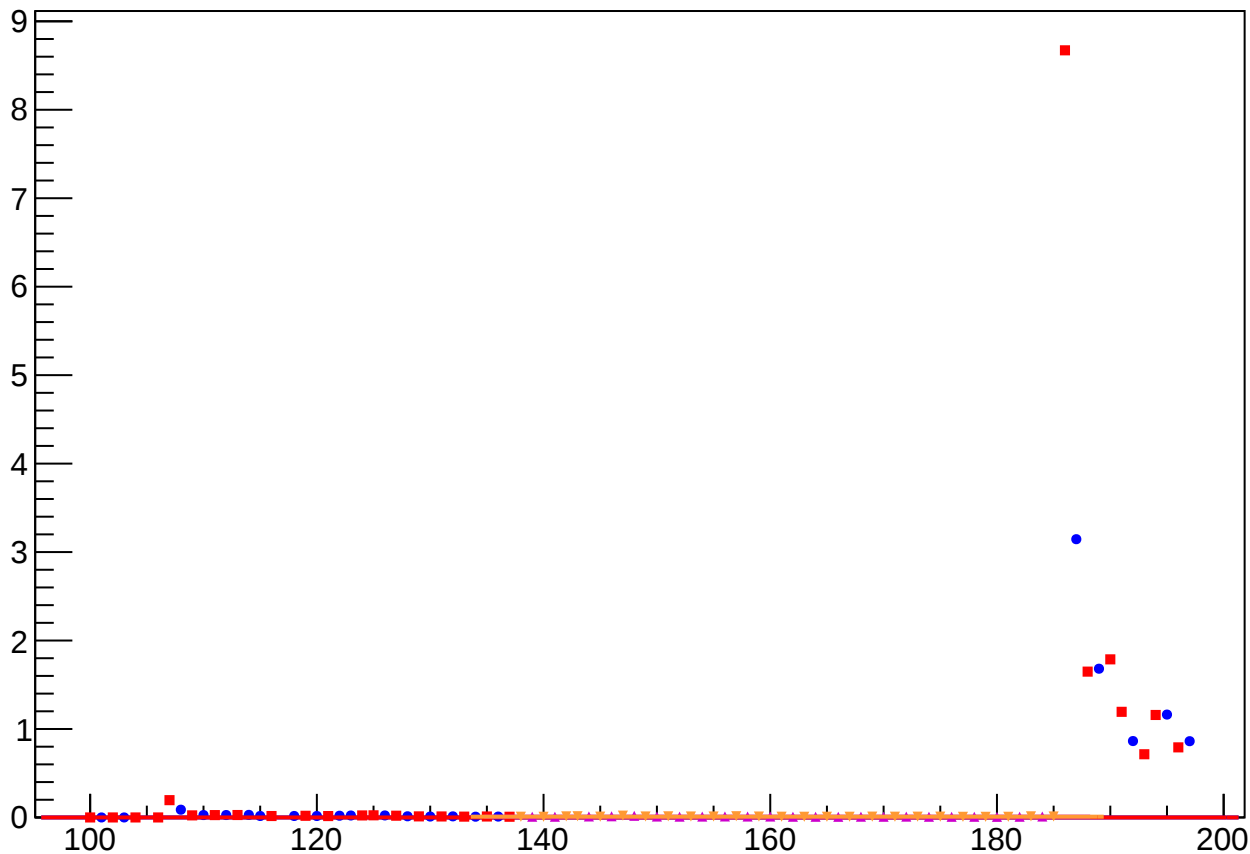
Out: 0.000+/-0.000 χ^2/NDF :47403650.2/50

All: 0.000+/-0.000 χ^2/NDF : 90382890.0/95

yield_cav4bY_mean vs Slug, Sign Corrected



yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14752089.1/21

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 17008940.8/25

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

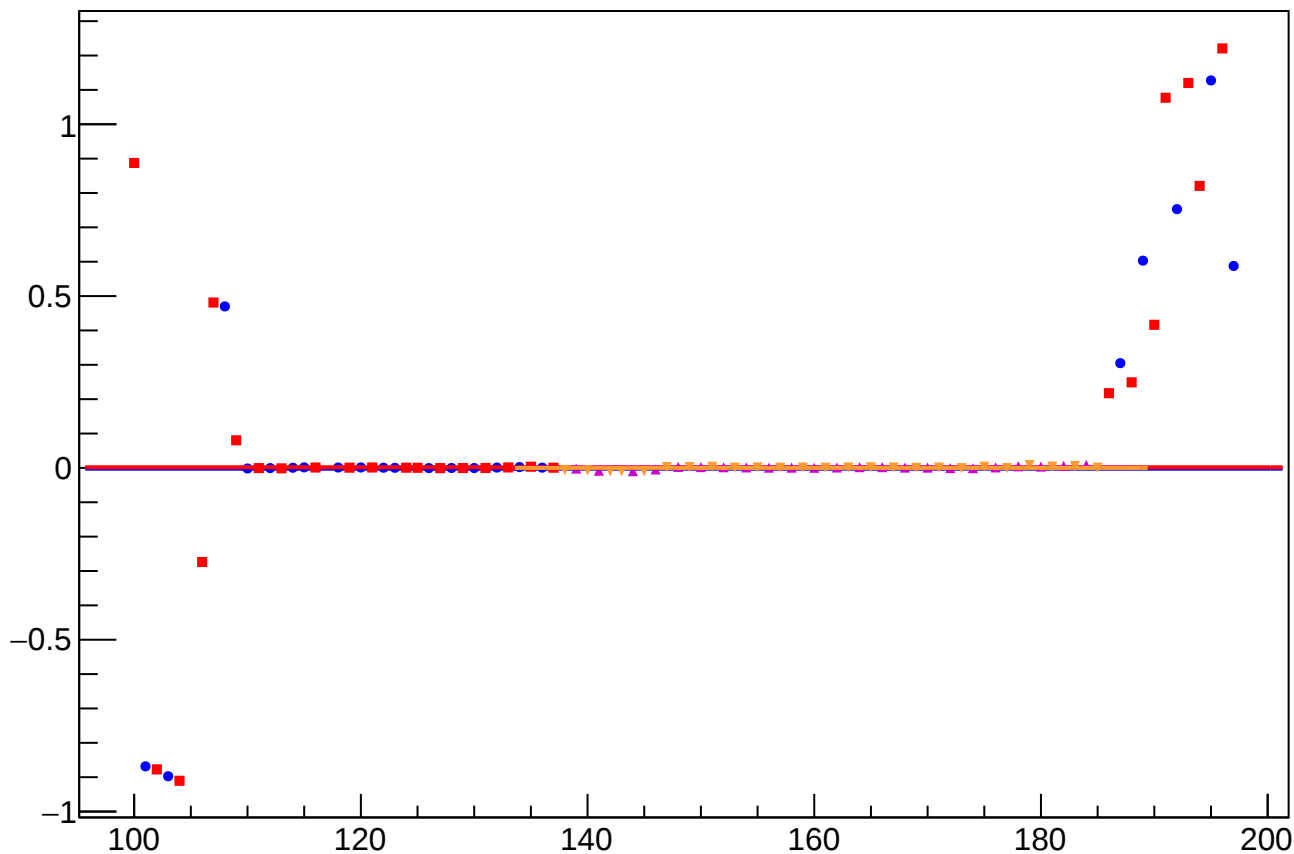
Right: 0.000+/-0.000 χ^2/NDF : 31761310.2/47

In: 0.000+/-0.000 χ^2/NDF :44288183.6/44

Out: 0.000+/-0.000 χ^2/NDF :48427583.2/50

All: 0.000+/-0.000 χ^2/NDF : 92716519.8/95

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000 χ^2/NDF : 9796097590.1/21

Left Out: -0.000 ± 0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002 ± 0.000 χ^2/NDF : 3042328185.5/25

Left In: 0.001 ± 0.000 χ^2/NDF : 101439617.3/22

Left: 0.000 ± 0.000 χ^2/NDF : 254436385.6/47

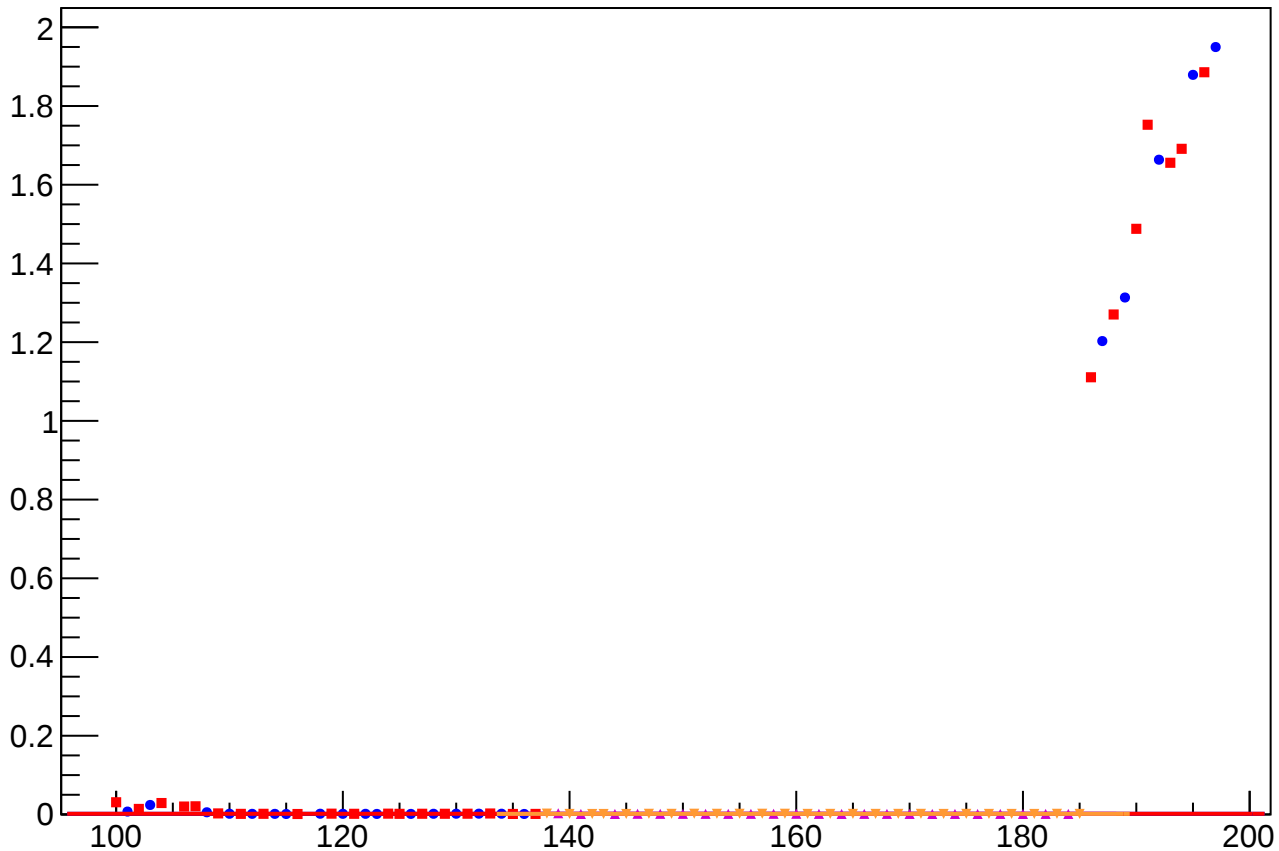
Right: -0.000 ± 0.000 χ^2/NDF : 12852194418.7/47

In: -0.000 ± 0.000 χ^2/NDF : 9908553463.4/44

Out: 0.000 ± 0.000 χ^2/NDF : 3198540858.2/50

All: 0.000 ± 0.000 χ^2/NDF : 13107431360.5/99

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 7891574.1/21

Left Out: 0.001+/-0.000 χ^2/NDF :539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 11180691.5/25

Left In: 0.001+/-0.000 χ^2/NDF :626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

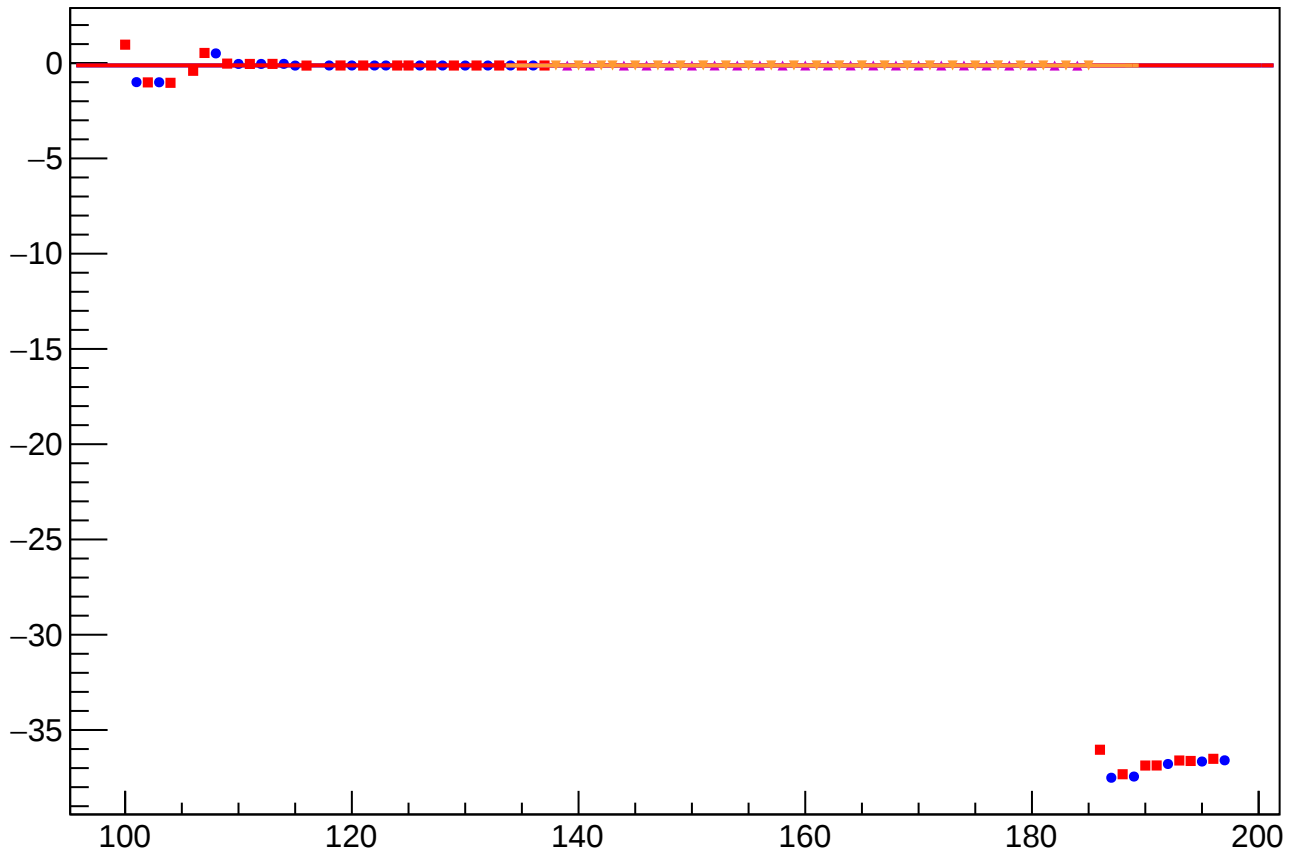
Right: 0.002+/-0.000 χ^2/NDF : 19080796.2/47

In: 0.002+/-0.000 χ^2/NDF :8568292.8/44

Out: 0.002+/-0.000 χ^2/NDF :11857986.0/50

All: 0.002+/-0.000 χ^2/NDF : 20427181.0/95

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 29312456526.5/21

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 36885652792.7/25

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

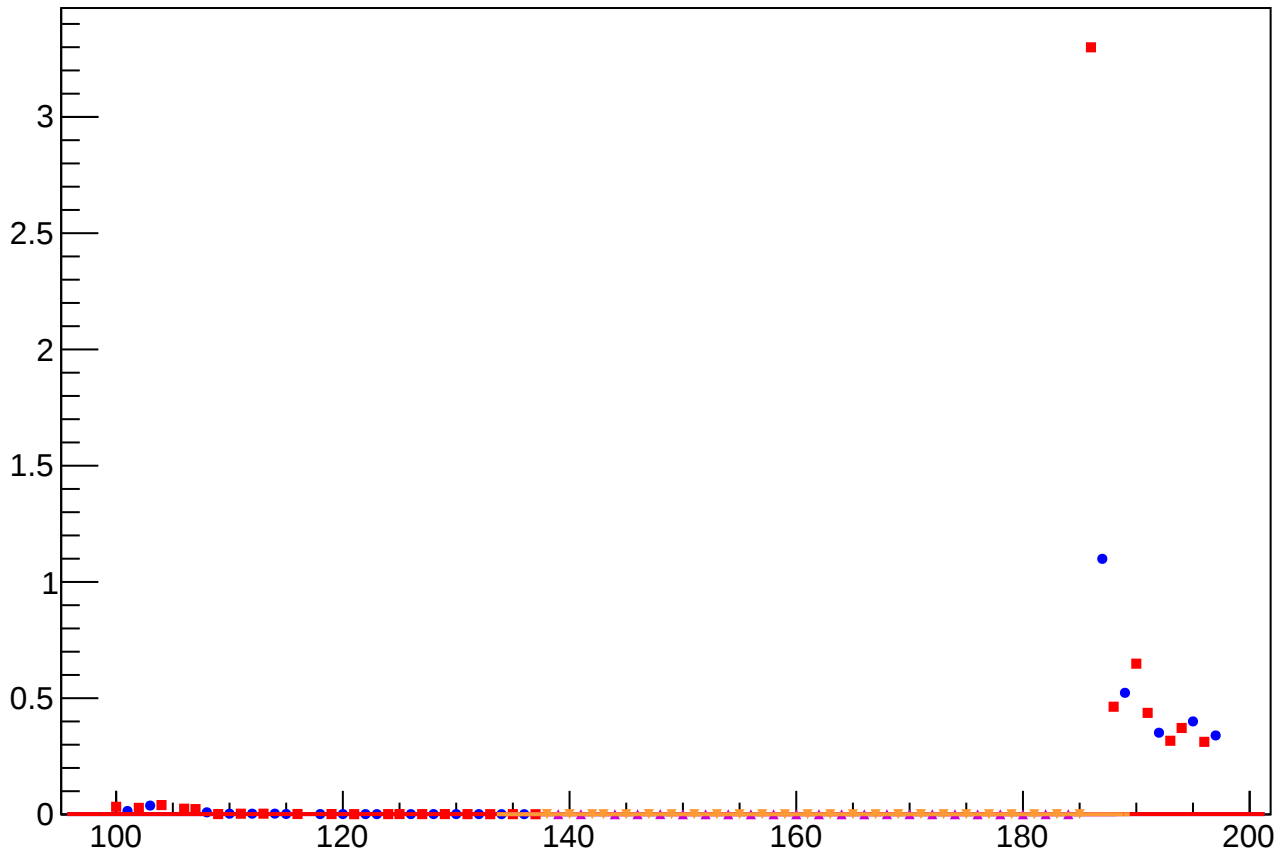
Right: -0.118+/-0.000 χ^2/NDF : 66219977486.2/47

In: -0.121+/-0.000 χ^2/NDF : 29364645382.9/44

Out: -0.121+/-0.000 χ^2/NDF : 36989770605.0/50

All: -0.121+/-0.000 χ^2/NDF : 66355309015.5/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 8527732.9/21

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 11335341.9/25

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

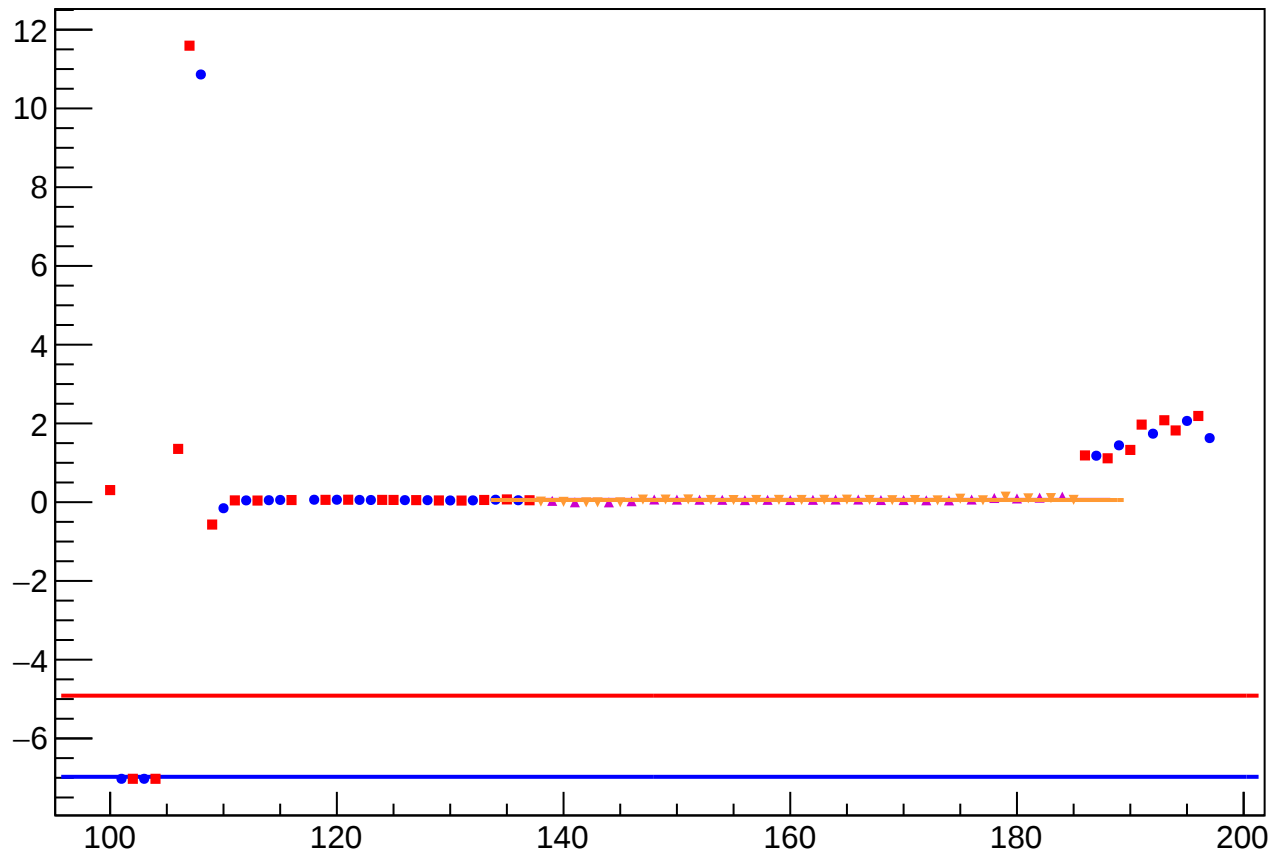
Right: 0.002+/-0.000 χ^2/NDF : 19863176.0/47

In: 0.001+/-0.000 χ^2/NDF :10653491.3/44

Out: 0.001+/-0.000 χ^2/NDF :13861597.7/50

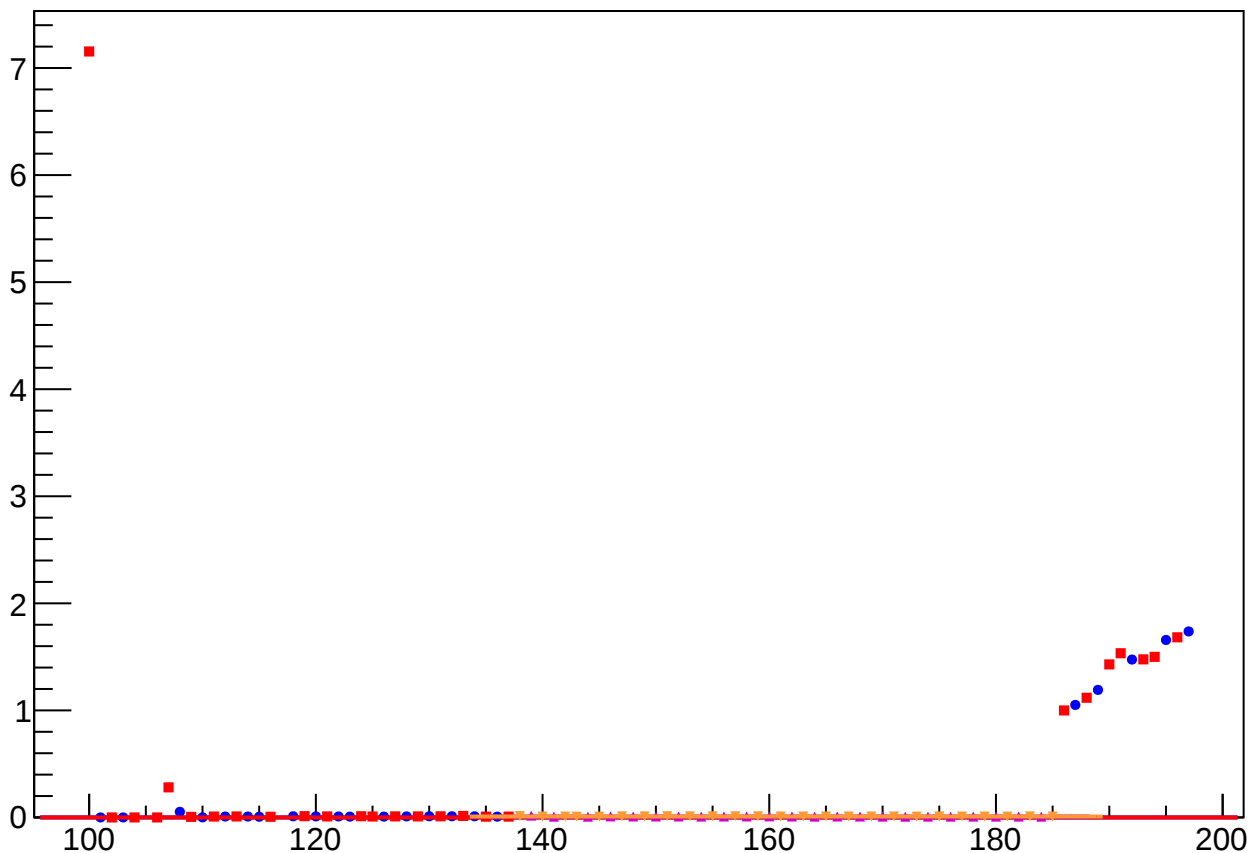
All: 0.001+/-0.000 χ^2/NDF : 24517609.2/95

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8797461431086.6/21
 Left Out: 0.055+/-0.000 χ^2/NDF : 243682351.4/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365352751952781.2/25
 Left In: 0.059+/-0.000 χ^2/NDF : 178541521.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 423736513.4/47
 Right: -5.900+/-0.000 χ^2/NDF : 430333472594056.5
 In: -6.926+/-0.000 χ^2/NDF : 17552980707704.4/44
 Out: -4.879+/-0.000 χ^2/NDF : 370165315674459.4
 All: -5.858+/-0.000 χ^2/NDF : 4435287647621

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14333970.8/21

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 16955447.6/25

Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

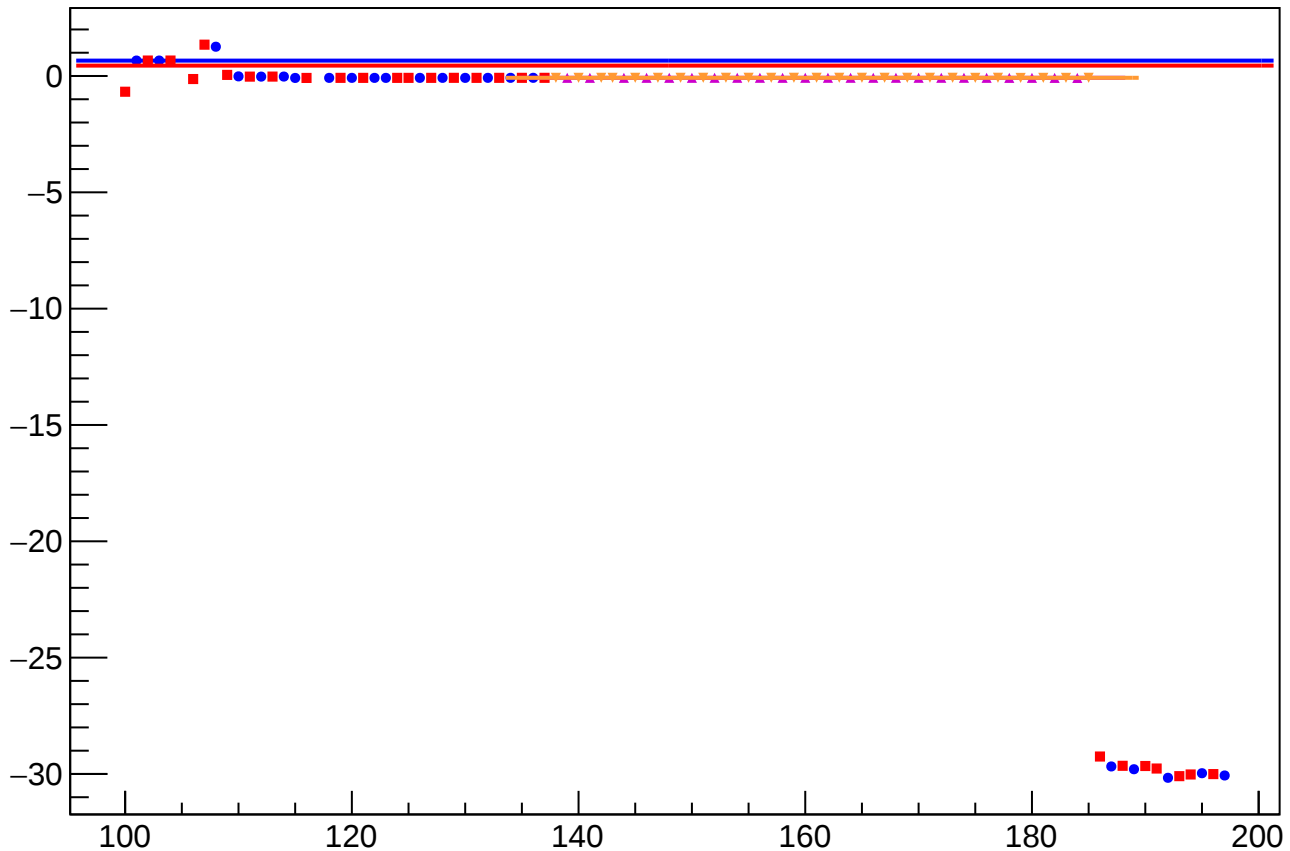
Right: 0.000+/-0.000 χ^2/NDF : 31289763.7/47

In: 0.000+/-0.000 χ^2/NDF : 41752459.3/44

Out: 0.000+/-0.000 χ^2/NDF : 45900030.2/50

All: 0.000+/-0.000 χ^2/NDF : 87652951.2/95

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000 χ^2/NDF : 5683162520159.8/21

Left Out: -0.078+/-0.000 χ^2/NDF : 156404795.7/24

Right Out: 0.446+/-0.000 χ^2/NDF : 405458995278536.9/25

Left In: -0.077+/-0.000 χ^2/NDF : 110762924.1/22

Left: -0.078+/-0.000 χ^2/NDF : 267206251.1/47

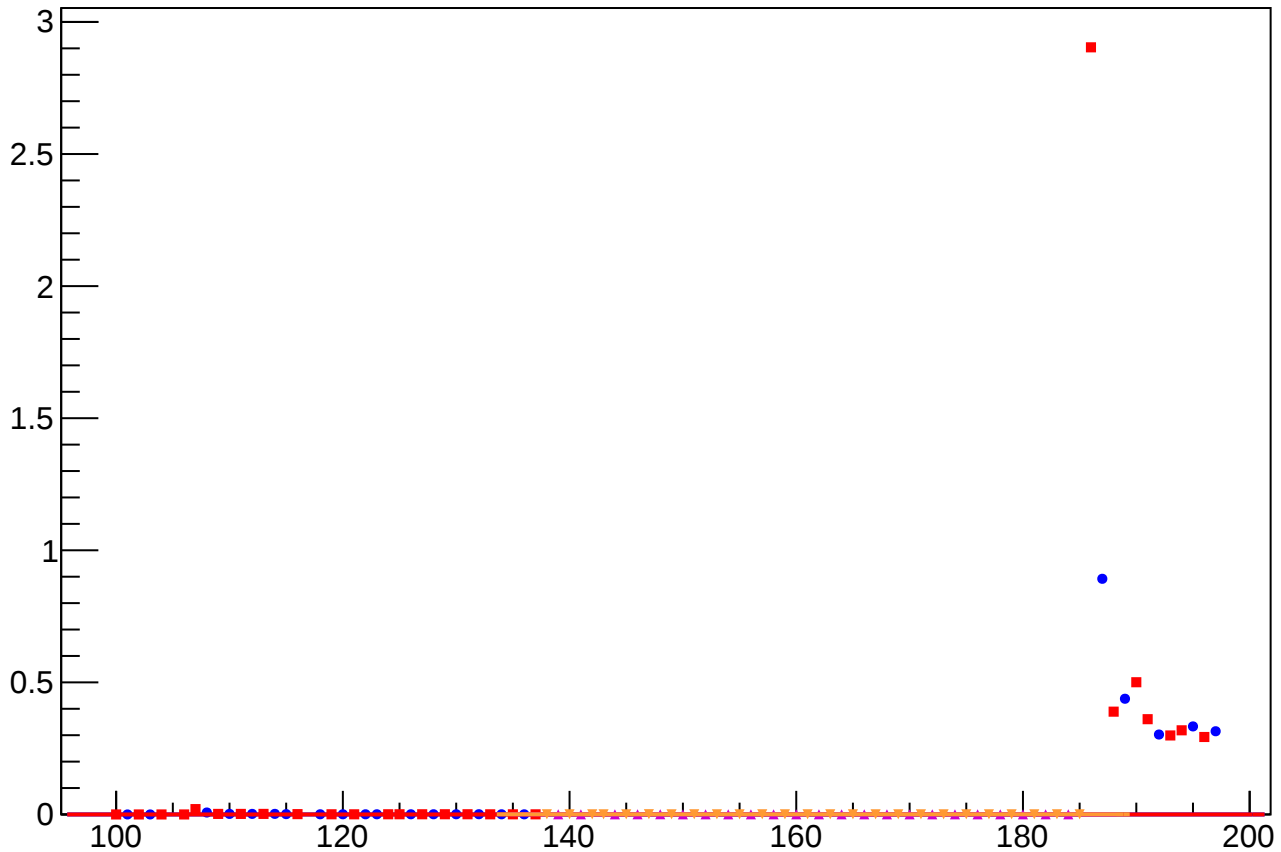
Right: 0.549+/-0.000 χ^2/NDF : 474055474485902.6/48

In: 0.647+/-0.000 χ^2/NDF : 33723874463565.6/44

Out: 0.436+/-0.000 χ^2/NDF : 420620093641280.1/50

All: 0.537+/-0.000 χ^2/NDF : 51589991271926.1/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15811408.8/21

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 17479728.7/25

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

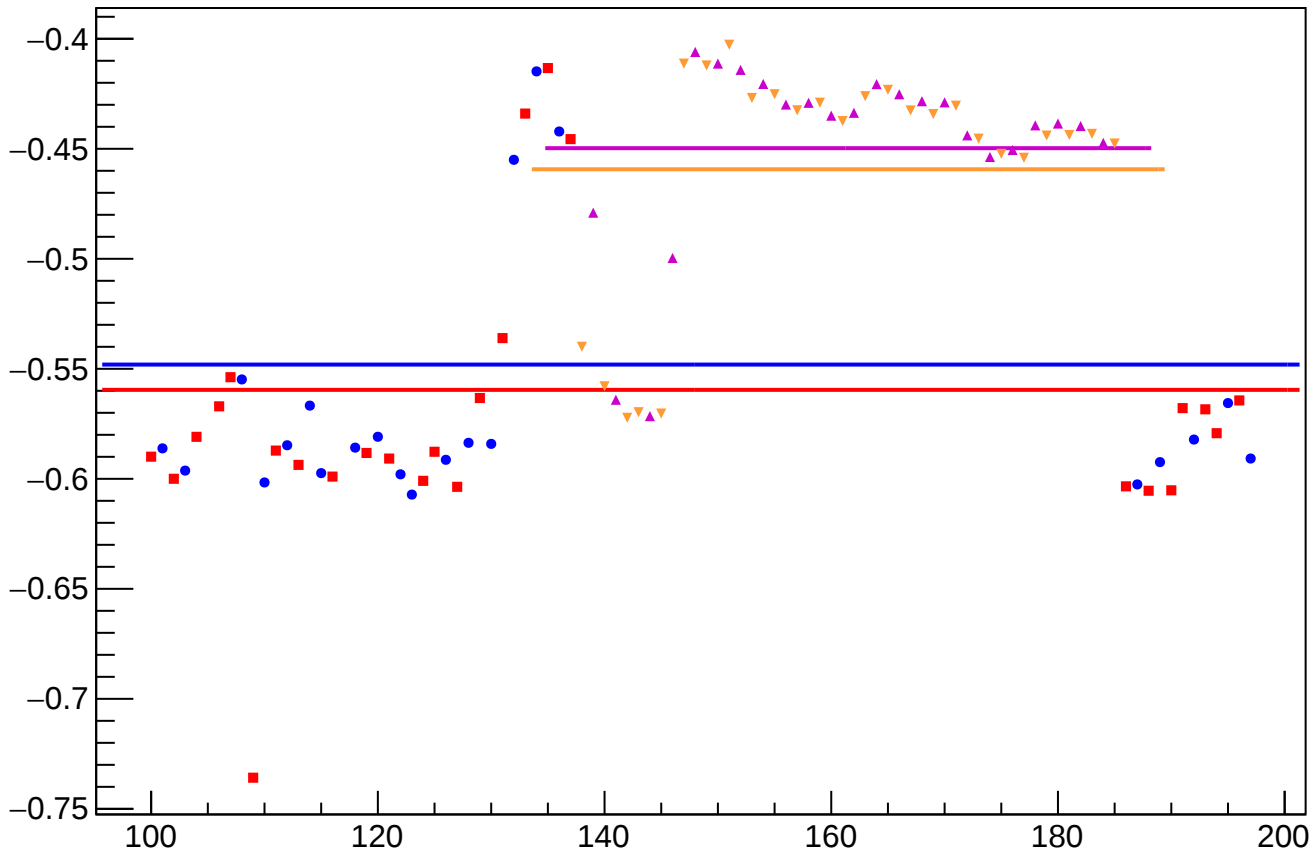
Right: 0.000+/-0.000 χ^2/NDF : 33291152.9/47

In: 0.000+/-0.000 χ^2/NDF : 46544178.5/44

Out: 0.000+/-0.000 χ^2/NDF : 50101301.2/50

All: 0.000+/-0.000 χ^2/NDF : 96645814.5/95

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548 ± 0.000 χ^2/NDF : 47403308.2/21

Left Out: -0.459 ± 0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.560 ± 0.000 χ^2/NDF : 65601035.1/25

Left In: -0.450 ± 0.000 χ^2/NDF : 76117957.8/22

Left: -0.455 ± 0.000 χ^2/NDF : 191493218.8/47

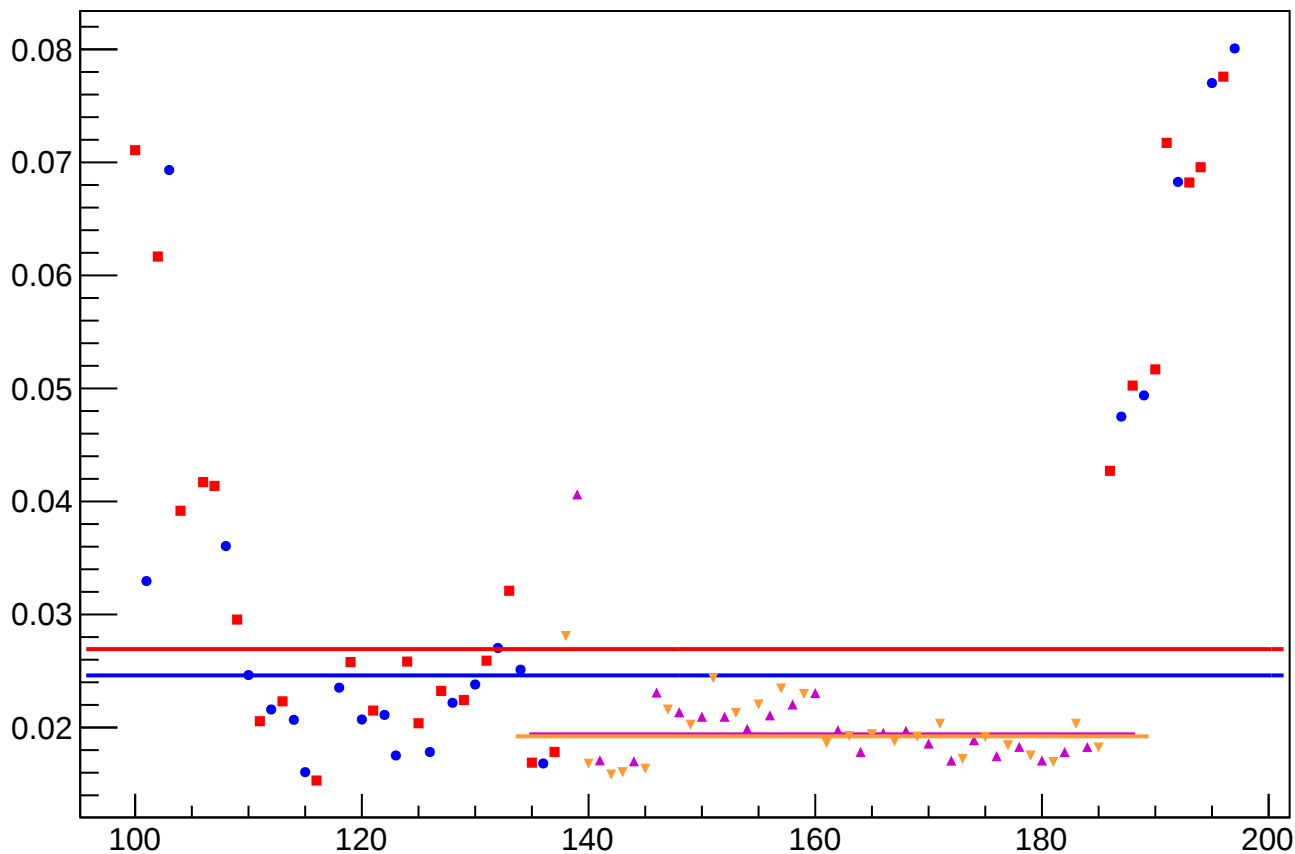
Right: -0.554 ± 0.000 χ^2/NDF : 113737359.4/47

In: -0.473 ± 0.000 χ^2/NDF : 206831321.8/44

Out: -0.481 ± 0.000 χ^2/NDF : 265867781.5/50

All: -0.477 ± 0.000 χ^2/NDF : 474399715.6/95

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 3539105.0/21

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.027+/-0.000 χ^2/NDF : 4015912.1/25

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

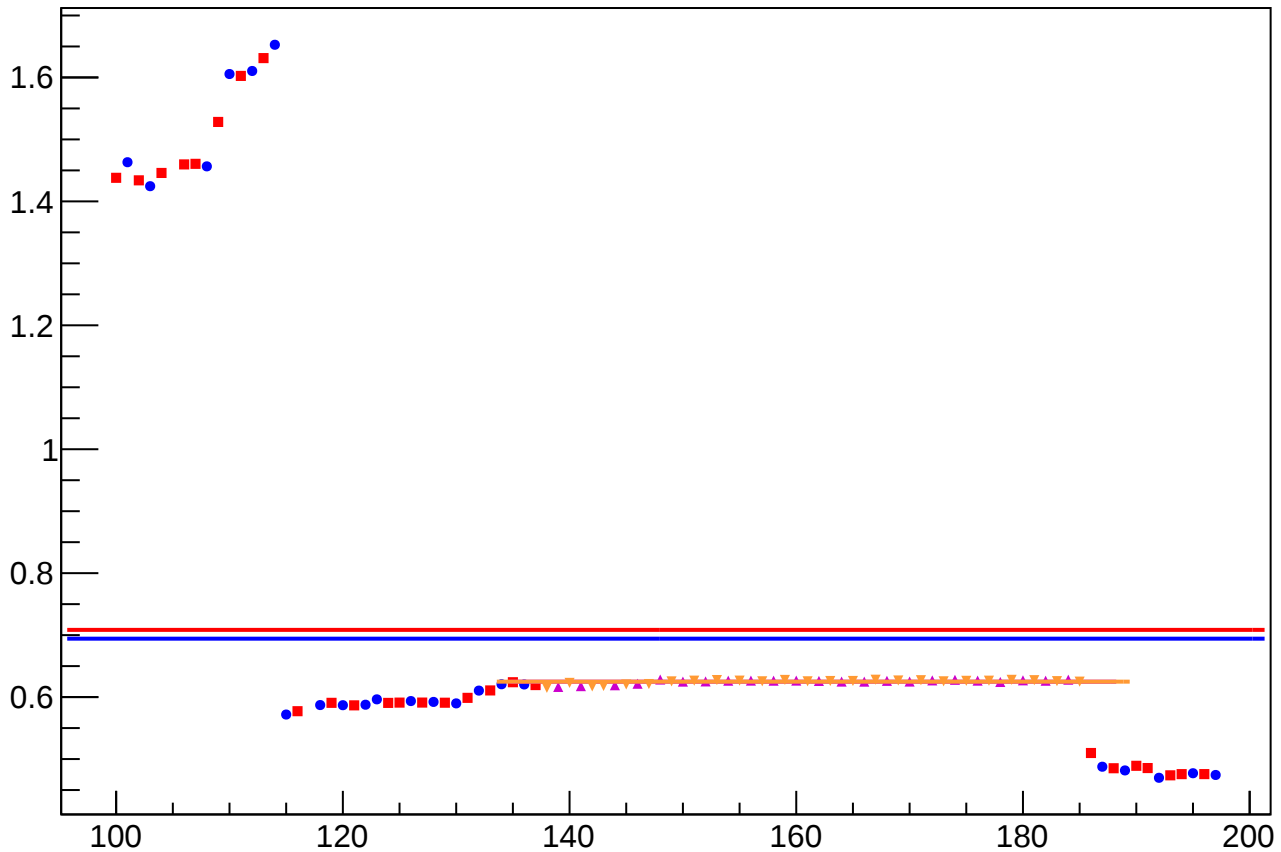
Right: 0.026+/-0.000 χ^2/NDF : 7615083.2/47

In: 0.021+/-0.000 χ^2/NDF : 4634077.0/44

Out: 0.021+/-0.000 χ^2/NDF : 5544448.8/50

All: 0.021+/-0.000 χ^2/NDF : 10182174.6/95

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.694 $\pm$ 0.000 χ^2 /NDF: 4421992475.7/21

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.708 $\pm$ 0.000 χ^2 /NDF: 5399106523.1/25

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2589565.7/47

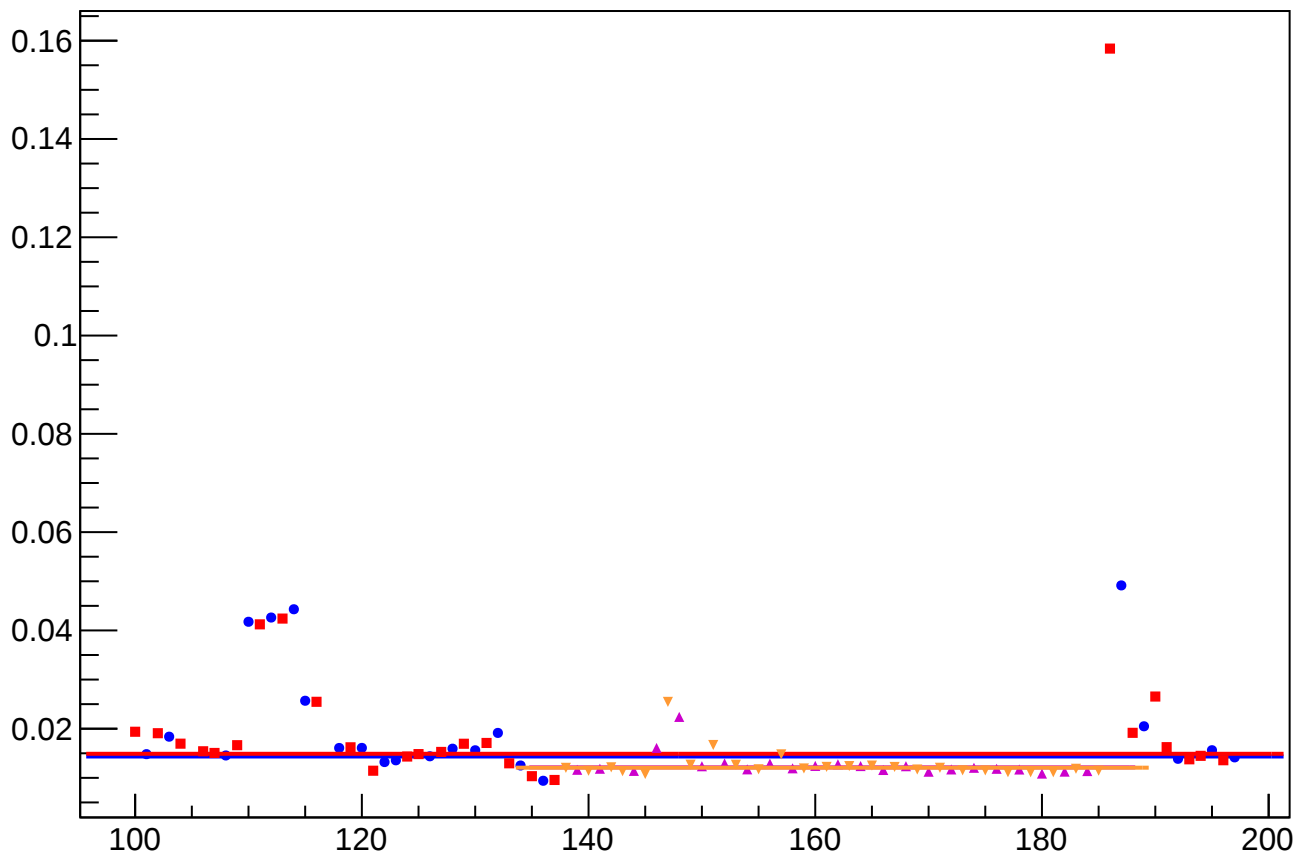
Right: 0.702 $\pm$ 0.000 χ^2 /NDF: 9825336912.4/47

In: 0.643 $\pm$ 0.000 χ^2 /NDF:4568245188.1/44

Out: 0.647 $\pm$ 0.000 χ^2 /NDF:5622390163.5/50

All: 0.645 $\pm$ 0.000 χ^2 /NDF: 10191654134.2/99

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2 /NDF: 1634799.5/21

Left Out: 0.012+/-0.000 χ^2 /NDF: 657199.9/24

Right Out: 0.015+/-0.000 χ^2 /NDF: 2072297.1/25

Left In: 0.012+/-0.000 χ^2 /NDF: 488363.6/22

Left: 0.012+/-0.000 χ^2 /NDF: 1146061.0/47

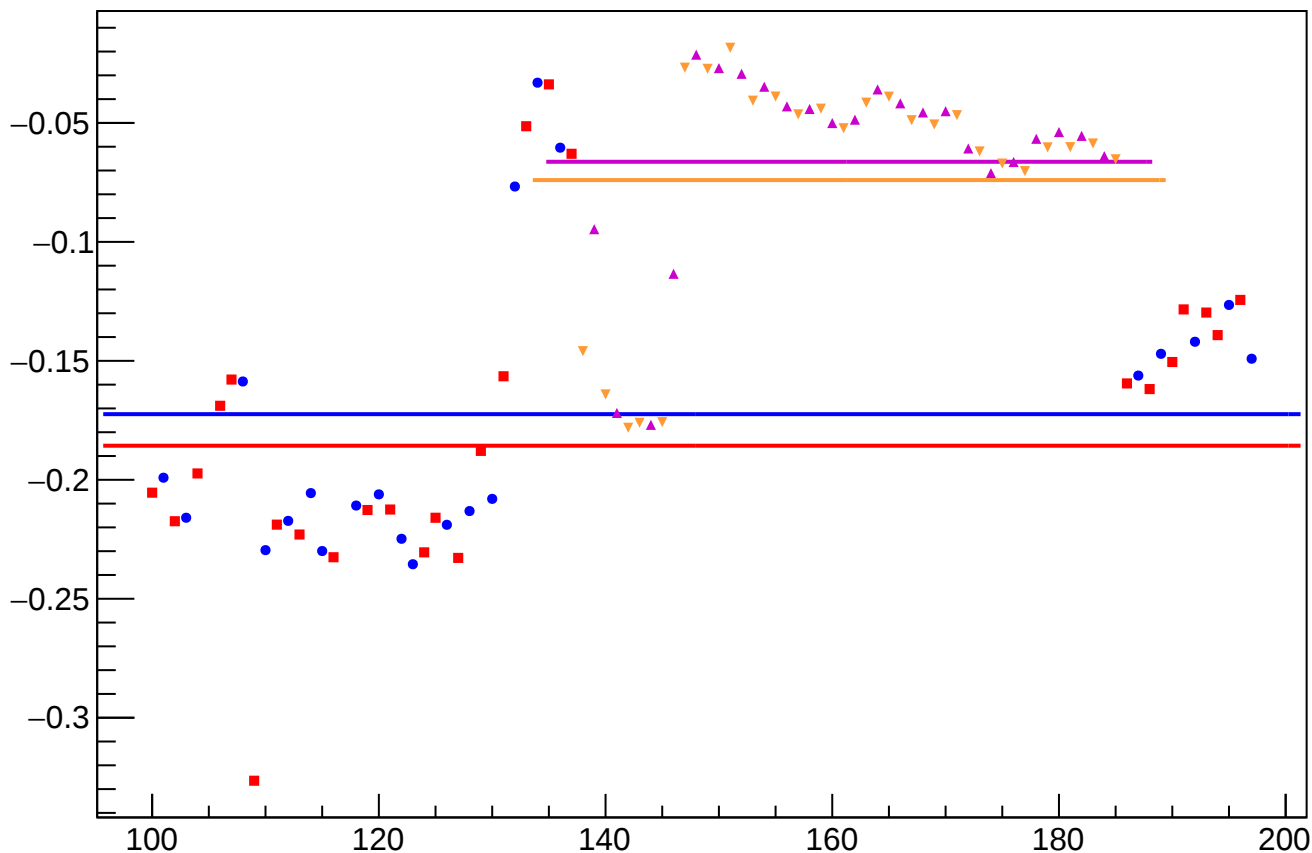
Right: 0.015+/-0.000 χ^2 /NDF: 3719731.9/47

In: 0.013+/-0.000 χ^2 /NDF: 2417611.6/44

Out: 0.013+/-0.000 χ^2 /NDF: 3236809.3/50

All: 0.013+/-0.000 χ^2 /NDF: 5655683.0/95

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.172 ± 0.000 χ^2/NDF : 67486200.2/21

Left Out: -0.074 ± 0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.186 ± 0.000 χ^2/NDF : 84118007.6/25

Left In: -0.066 ± 0.000 χ^2/NDF : 76243051.8/22

Left: -0.070 ± 0.000 χ^2/NDF : 185076997.5/47

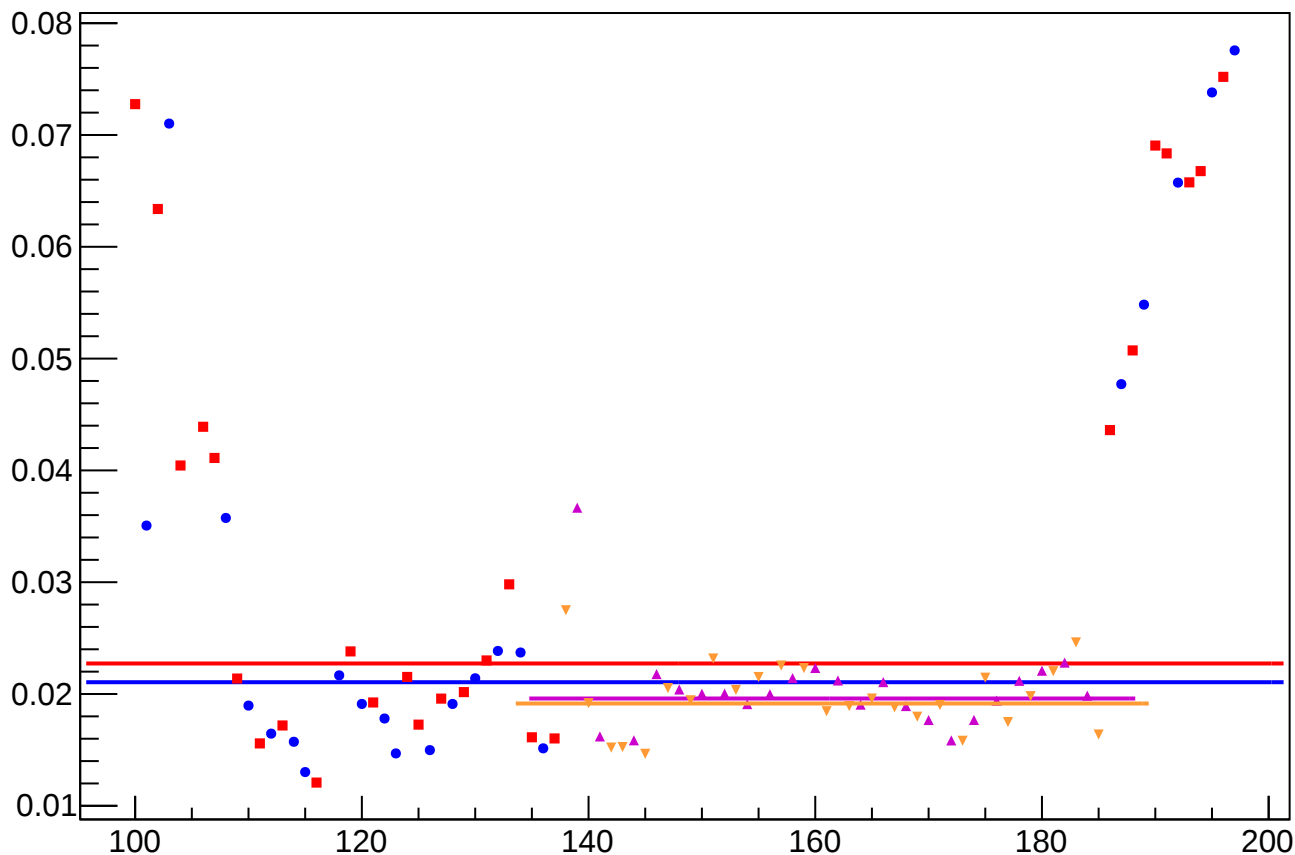
Right: -0.179 ± 0.000 χ^2/NDF : 152888332.9/47

In: -0.096 ± 0.000 χ^2/NDF : 262219498.0/44

Out: -0.103 ± 0.000 χ^2/NDF : 325614785.9/50

All: -0.100 ± 0.000 χ^2/NDF : 589062786.9/95

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 4166131.4/21

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4985849.4/25

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

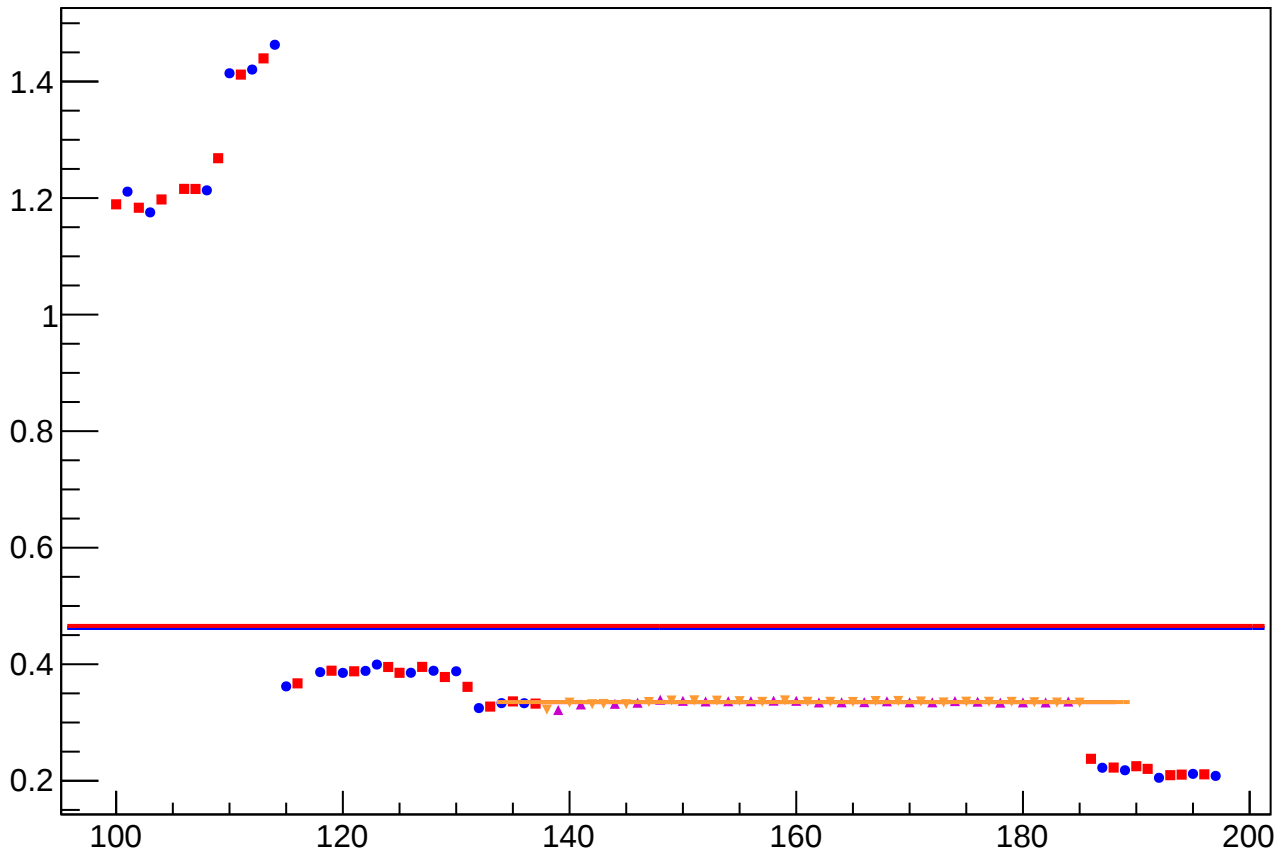
Right: 0.022+/-0.000 χ^2/NDF : 9193040.6/47

In: 0.020+/-0.000 χ^2/NDF : 4833981.1/44

Out: 0.020+/-0.000 χ^2/NDF : 5902462.8/50

All: 0.020+/-0.000 χ^2/NDF : 10736739.5/95

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.462+/-0.000 χ^2/NDF : 6427688624.6/21

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.466+/-0.000 χ^2/NDF : 7544377029.0/25

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

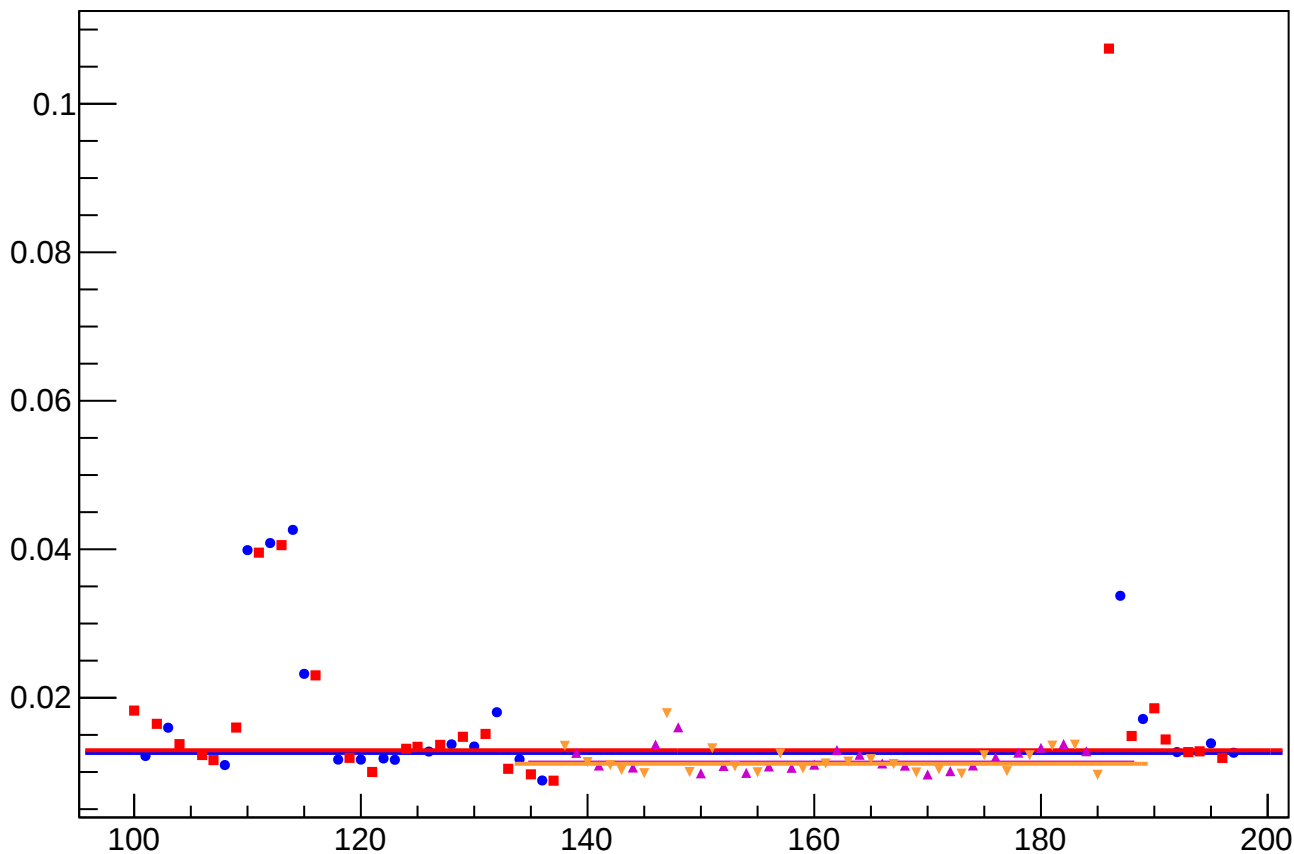
Right: 0.464+/-0.000 χ^2/NDF : 13972420590.8/47

In: 0.372+/-0.000 χ^2/NDF :7042911241.0/44

Out: 0.373+/-0.000 χ^2/NDF :8240742890.2/50

All: 0.372+/-0.000 χ^2/NDF : 15283677652.4/99

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1507150.5/21

Left Out: 0.011+/-0.000 χ^2/NDF :607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1931831.8/25

Left In: 0.011+/-0.000 χ^2/NDF :502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

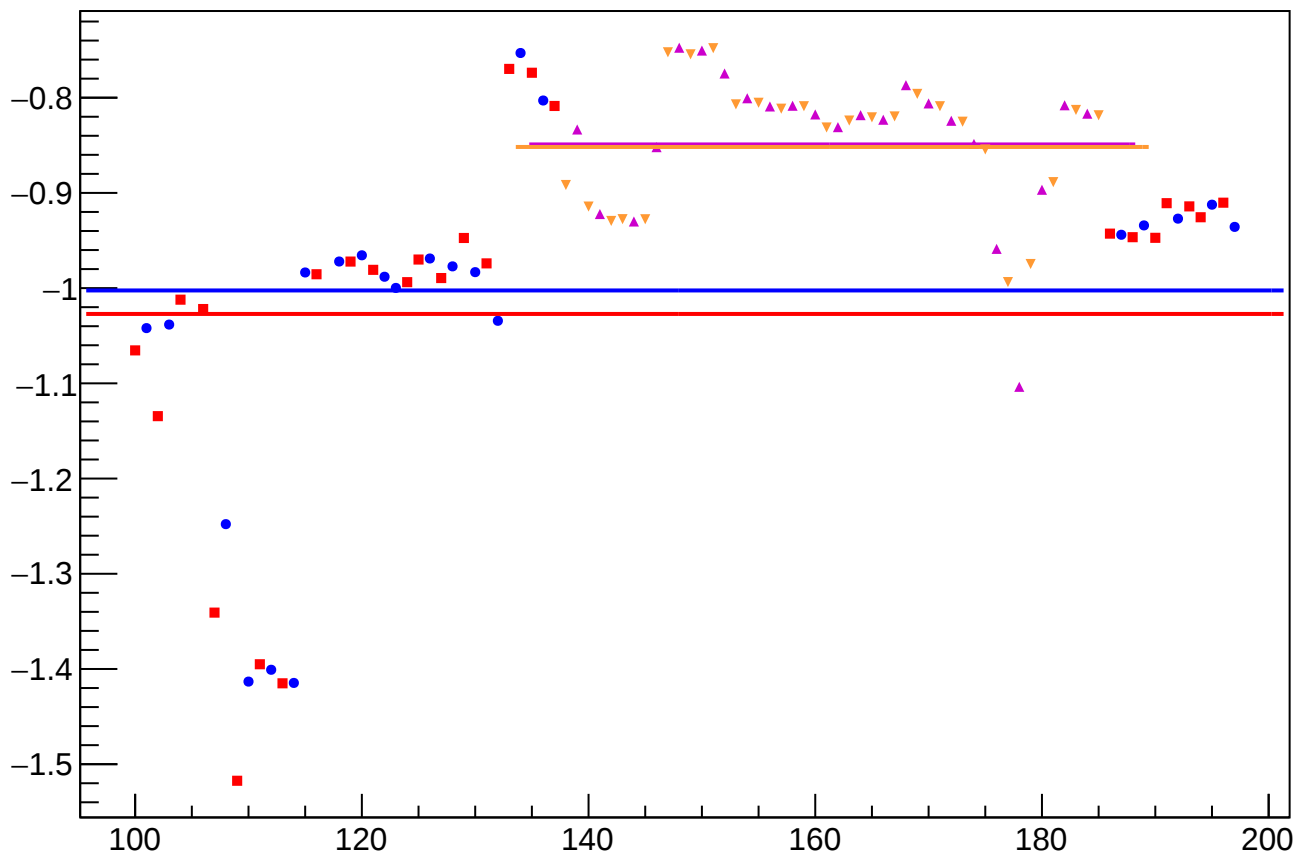
Right: 0.013+/-0.000 χ^2/NDF : 3445951.4/47

In: 0.012+/-0.000 χ^2/NDF :2138196.9/44

Out: 0.012+/-0.000 χ^2/NDF :2808025.7/50

All: 0.012+/-0.000 χ^2/NDF : 4946284.9/95

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.002 $\pm$ 0.000 χ^2/NDF : 397790482.9/21

Left Out: -0.852 $\pm$ 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.027 $\pm$ 0.000 χ^2/NDF : 547871541.9/25

Left In: -0.849 $\pm$ 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2/NDF : 445636655.2/47

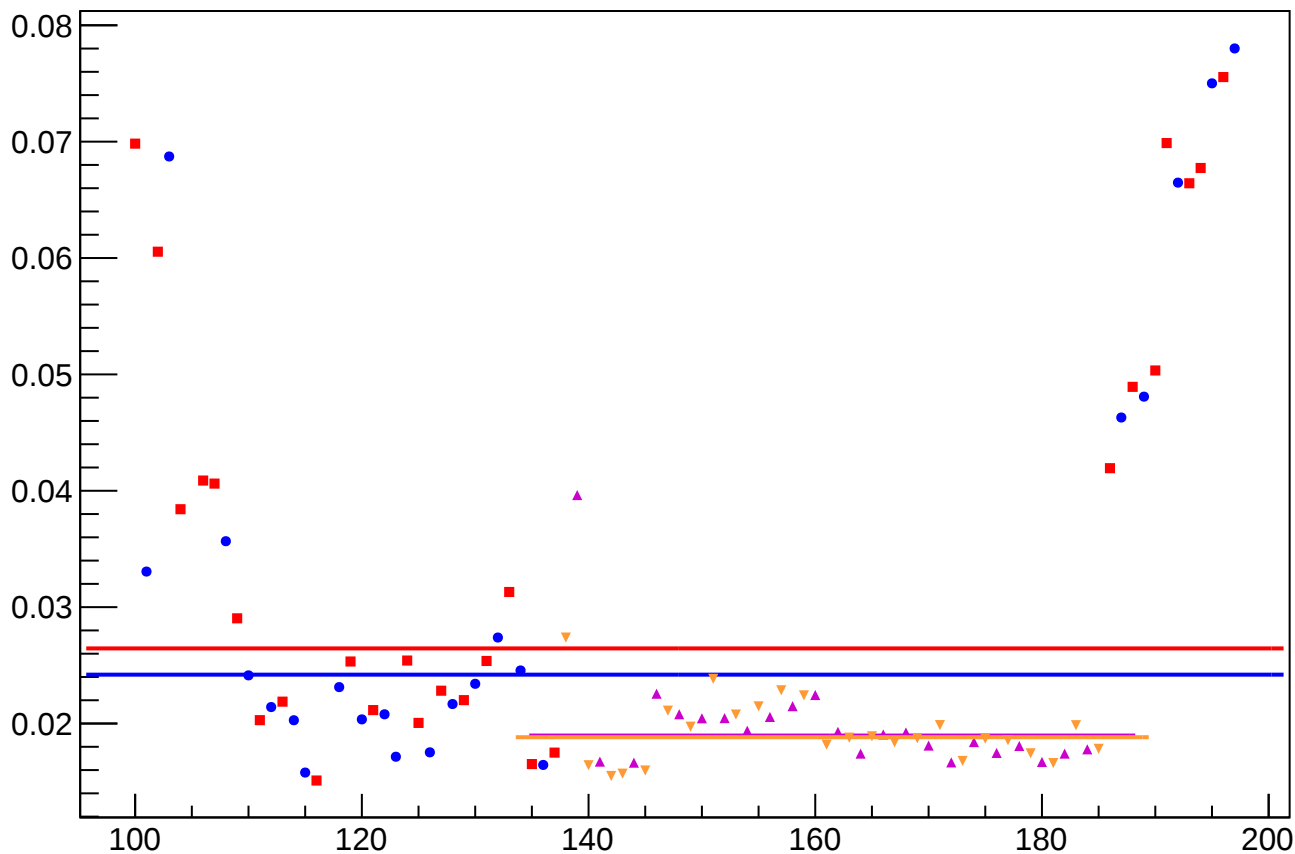
Right: -1.015 $\pm$ 0.000 χ^2/NDF : 949162364.5/47

In: -0.884 $\pm$ 0.000 χ^2/NDF : 864265088.4/44

Out: -0.889 $\pm$ 0.000 χ^2/NDF : 1012276120.4/50

All: -0.887 $\pm$ 0.000 χ^2/NDF : 1877152769.1/9

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 3538958.8/21

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490509.4/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 3982523.7/25

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:615173.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1106521.0/47

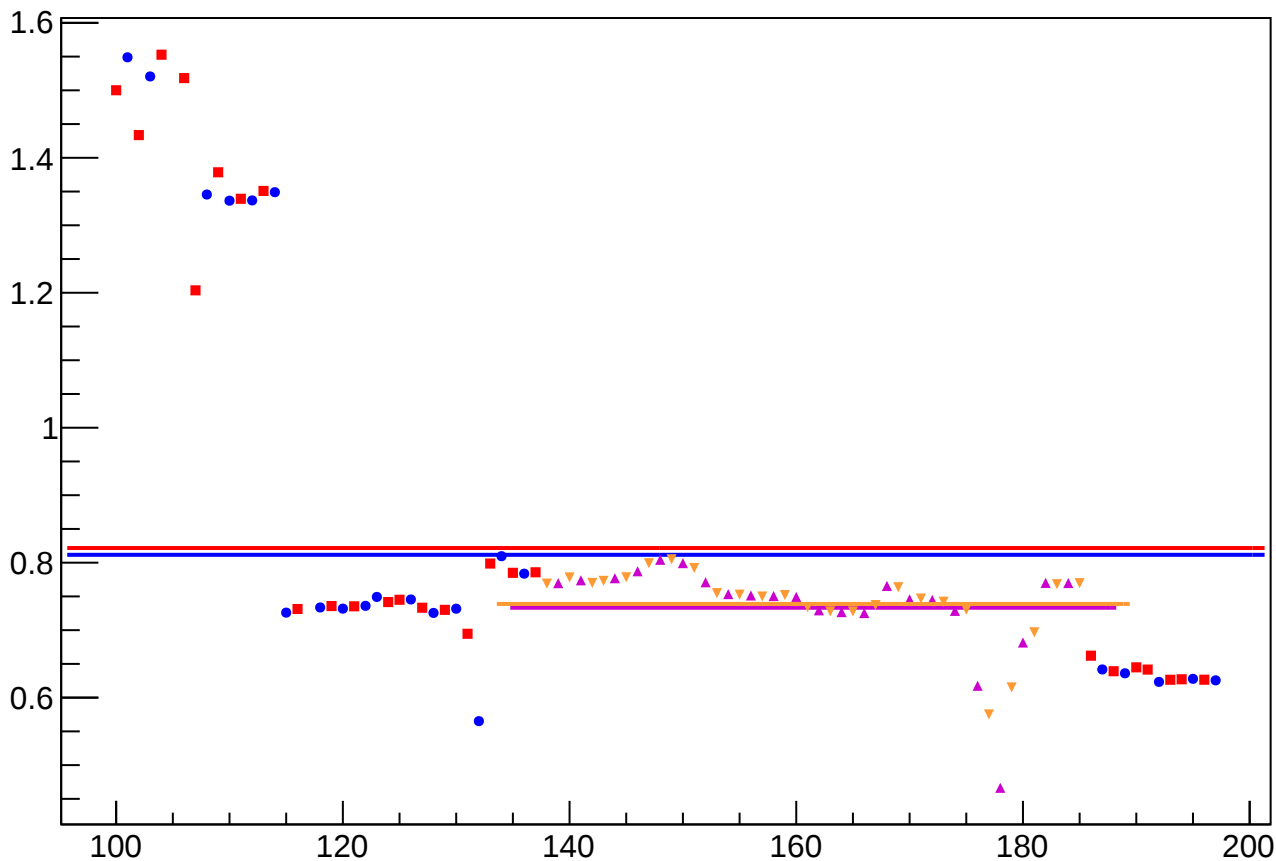
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 7579981.7/47

In: 0.020 $\pm$ 0.000 χ^2 /NDF:4643291.2/44

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:5515882.9/50

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 10163345.5/95

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.812 $\pm$ 0.000 χ^2 /NDF: 3011744875.0/21

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.822 $\pm$ 0.000 χ^2 /NDF: 3302096810.6/25

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 904456968.5/47

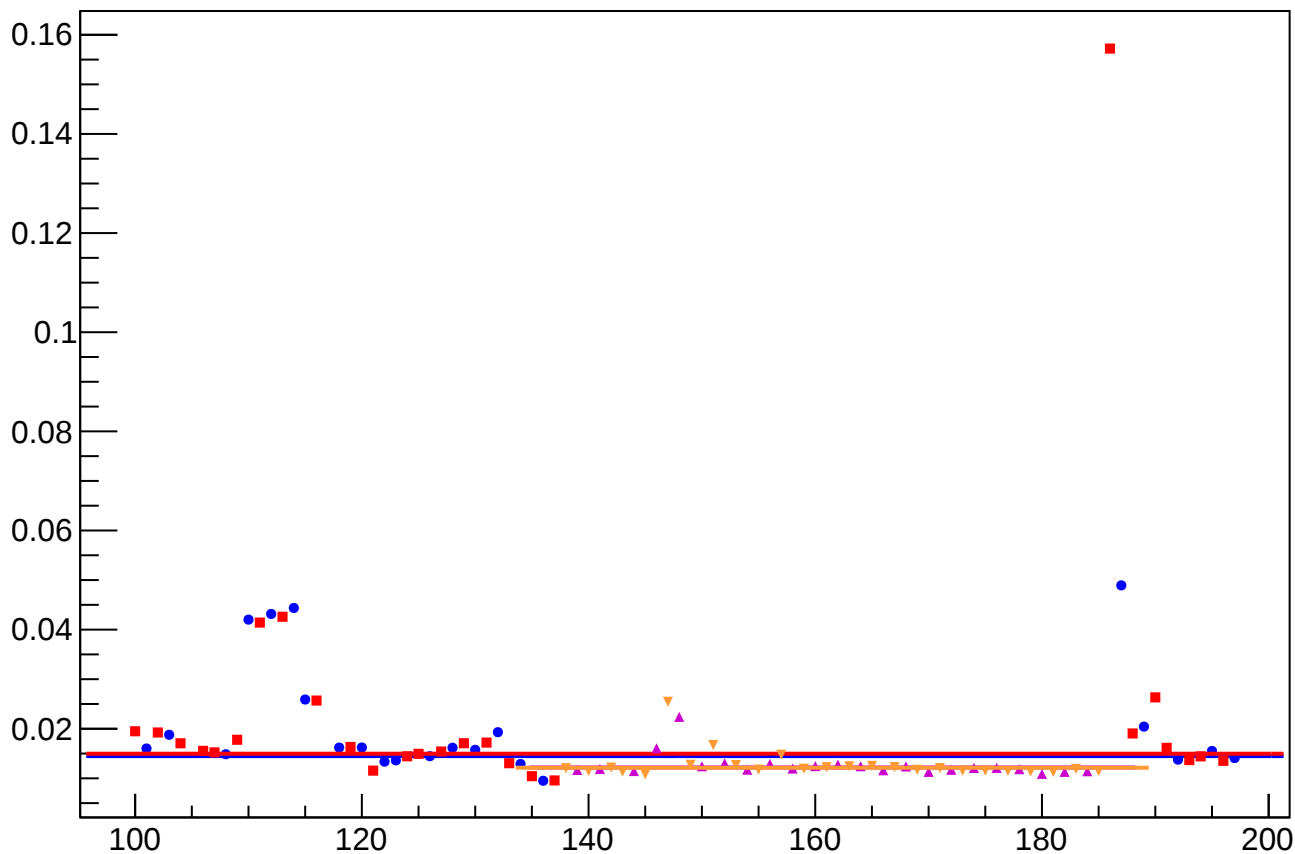
Right: 0.817 $\pm$ 0.000 χ^2 /NDF: 6315933864.1/47

In: 0.754 $\pm$ 0.000 χ^2 /NDF:3762914581.1/44

Out: 0.761 $\pm$ 0.000 χ^2 /NDF:3850759298.4/50

All: 0.757 $\pm$ 0.000 χ^2 /NDF: 7617291242.0/95

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1635830.6/21

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2075284.4/25

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481830.1/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120125.6/47

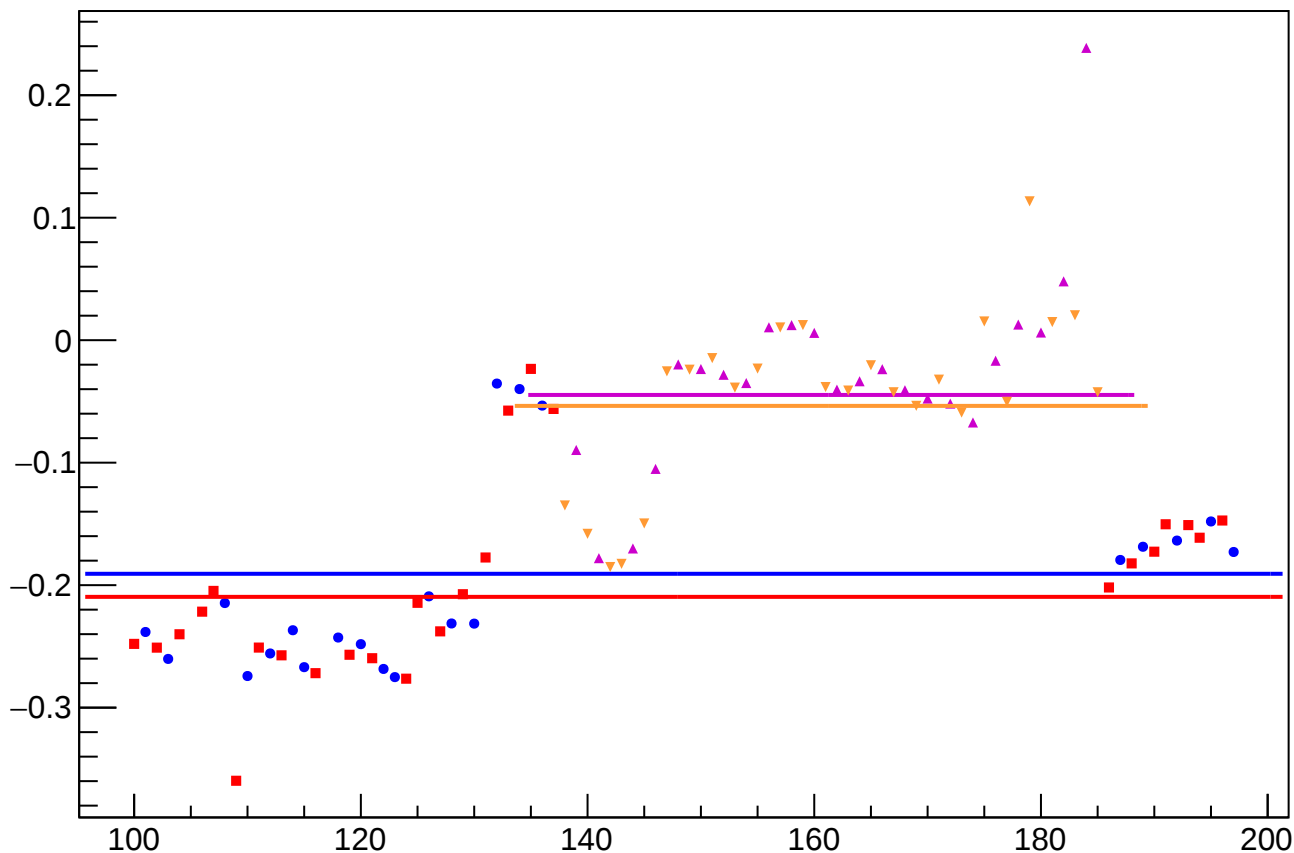
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3720384.1/47

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2429581.6/44

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3214207.9/50

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5644958.3/95

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191 ± 0.000 $\chi^2/\text{NDF}: 106750231.5/21$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.210 ± 0.000 $\chi^2/\text{NDF}: 112676801.9/25$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

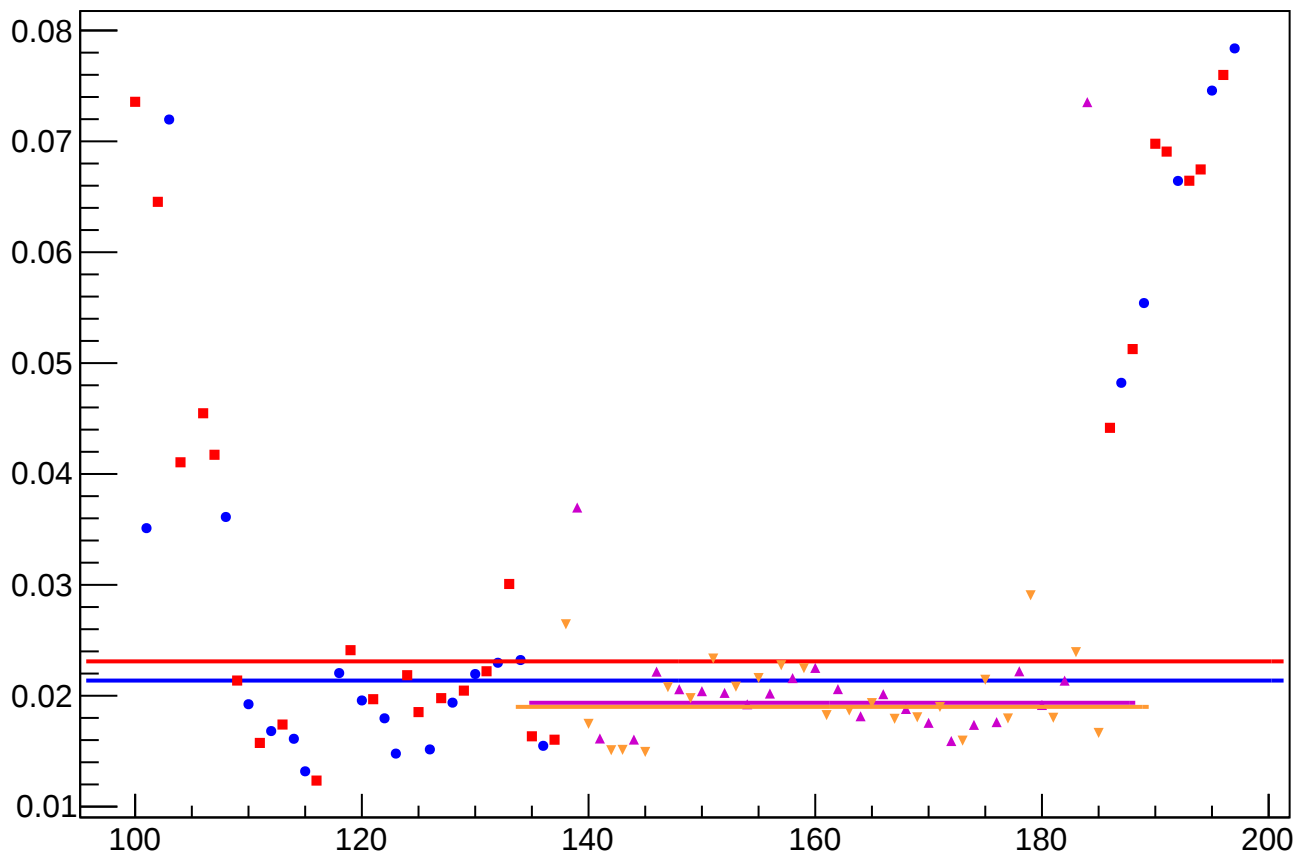
Right: -0.200 ± 0.000 $\chi^2/\text{NDF}: 221942452.9/47$

In: -0.085 ± 0.000 $\chi^2/\text{NDF}: 453654214.2/44$

Out: -0.094 ± 0.000 $\chi^2/\text{NDF}: 534334945.3/50$

All: -0.090 ± 0.000 $\chi^2/\text{NDF}: 989858657.6/95$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 4126580.8/21

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4957836.4/25

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

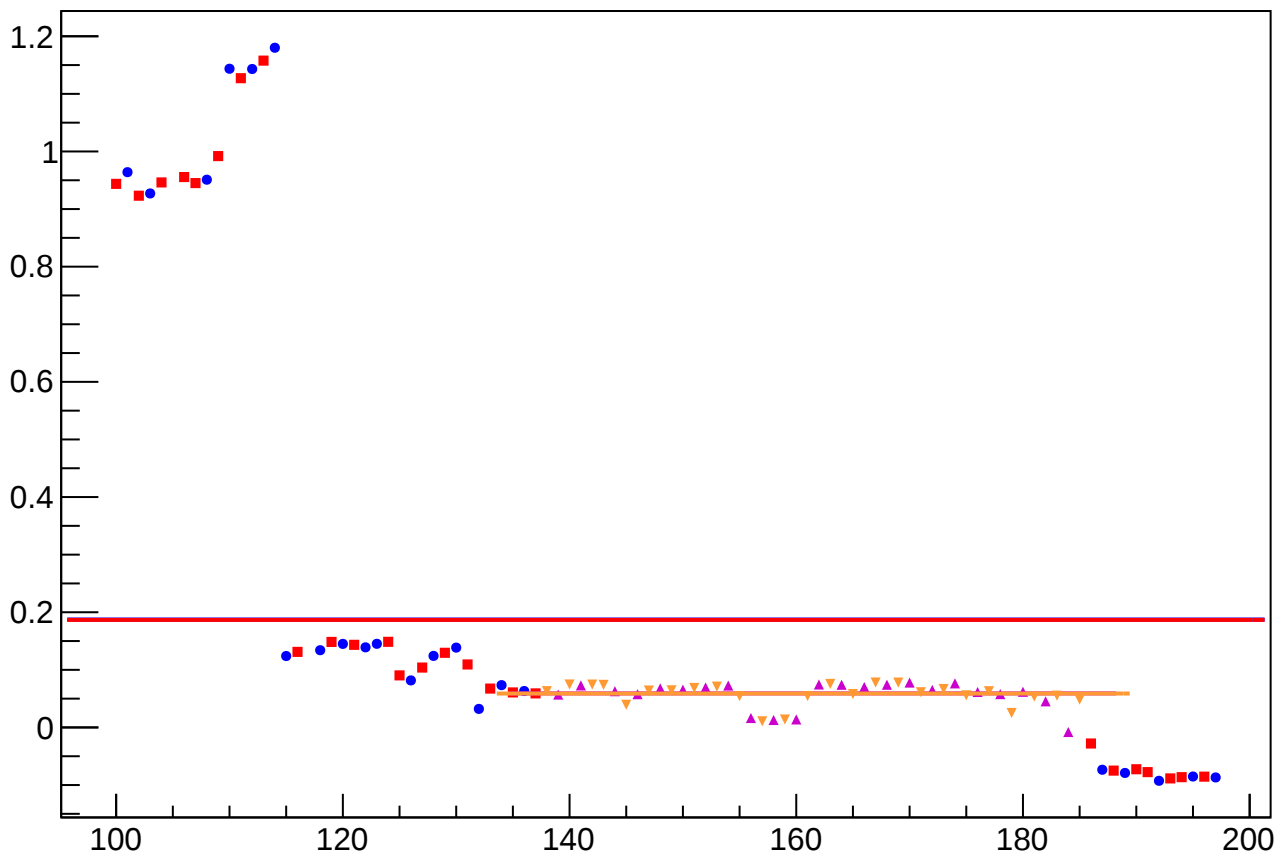
Right: 0.022+/-0.000 χ^2/NDF : 9126907.6/47

In: 0.020+/-0.000 χ^2/NDF : 5067558.7/44

Out: 0.020+/-0.000 χ^2/NDF : 6009703.5/50

All: 0.020+/-0.000 χ^2/NDF : 11078166.1/95

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.187+/-0.000 χ^2/NDF : 6850301976.0/21

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.187+/-0.000 χ^2/NDF : 7866633436.7/25

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

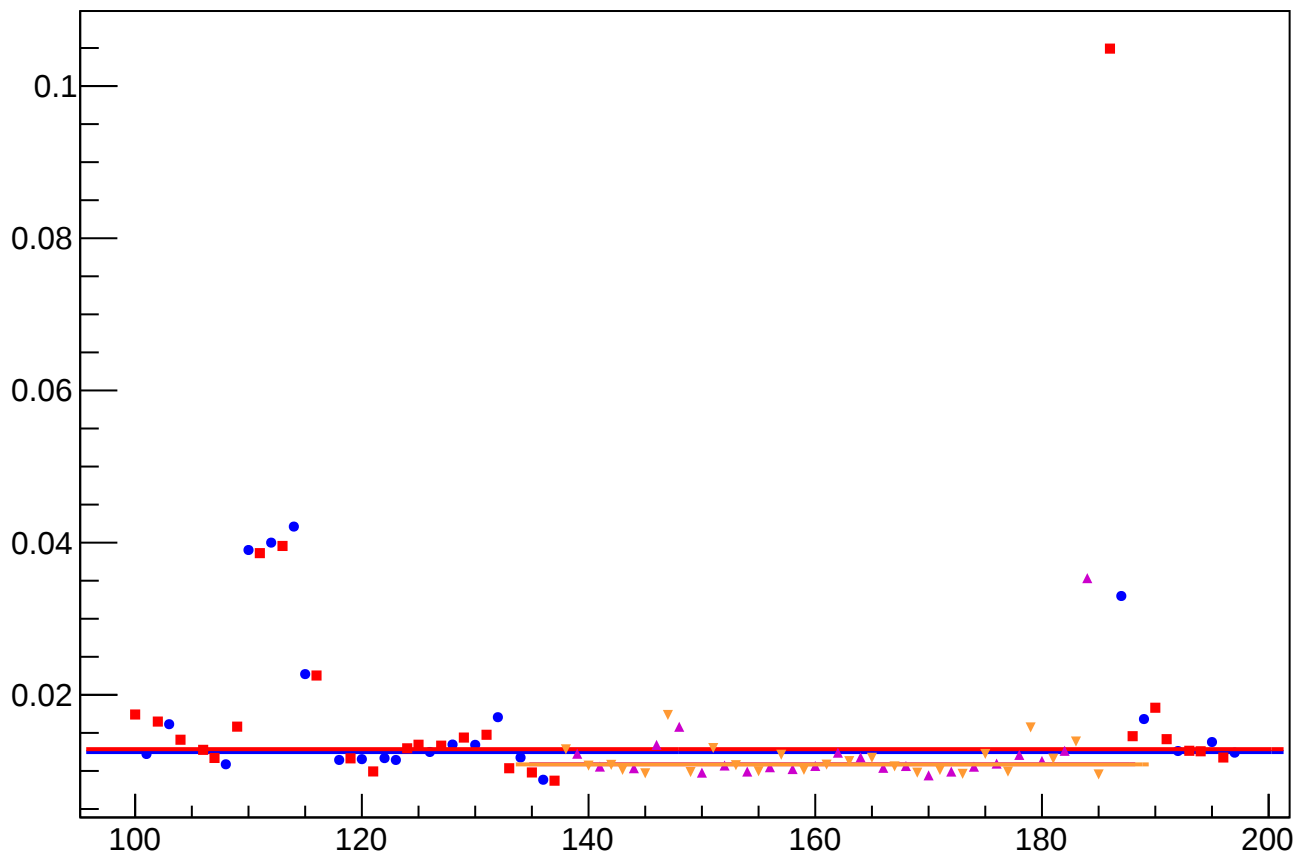
Right: 0.187+/-0.000 χ^2/NDF : 14716946275.2/47

In: 0.096+/-0.000 χ^2/NDF : 7548667680.7/44

Out: 0.095+/-0.000 χ^2/NDF : 8587515958.4/50

All: 0.096+/-0.000 χ^2/NDF : 16136194382.5/95

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1474014.4/21

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1887697.7/25

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:530077.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1134994.9/47

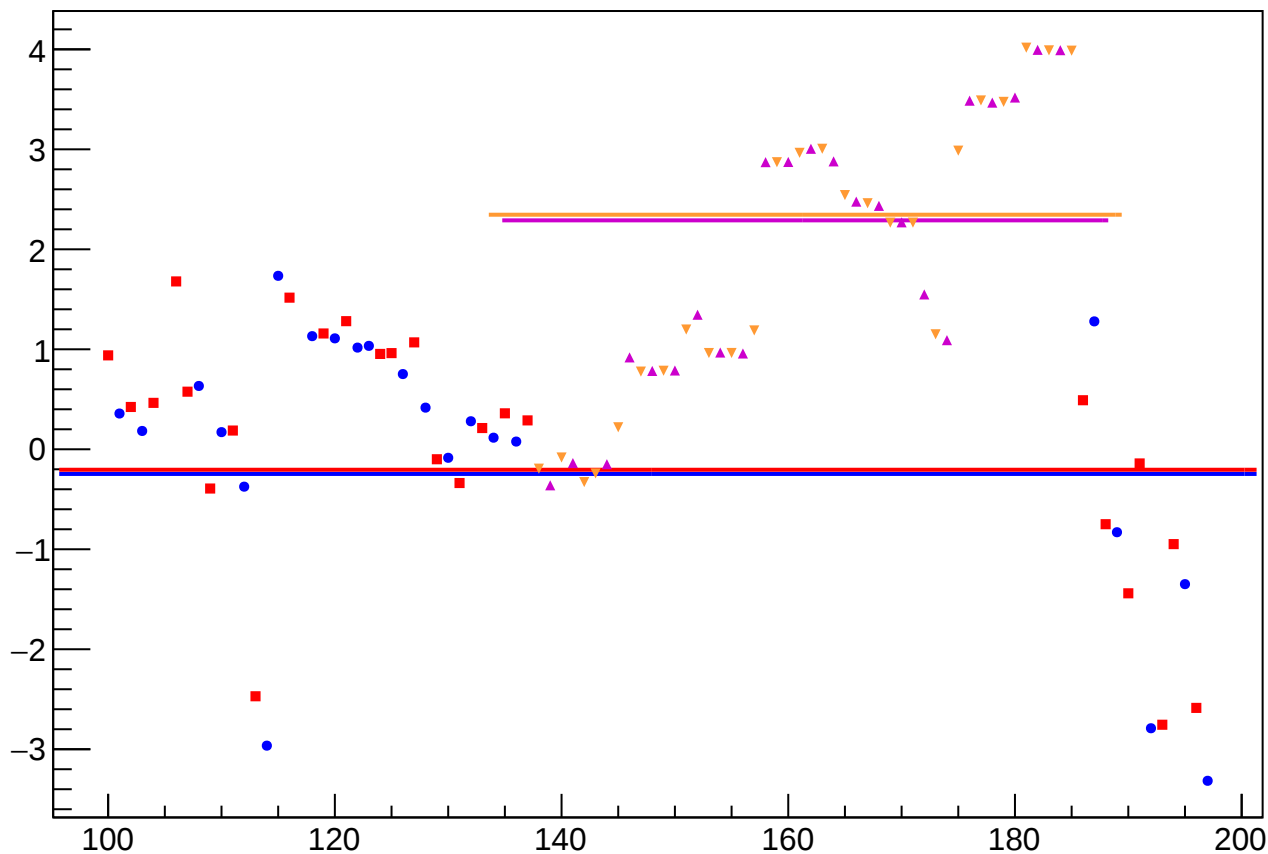
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3369897.7/47

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2200734.2/44

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2823062.1/50

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5025308.9/95

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.247 ± 0.000 $\chi^2/\text{NDF}: 3956714095.5/21$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.205 ± 0.000 $\chi^2/\text{NDF}: 4162544151.4/25$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

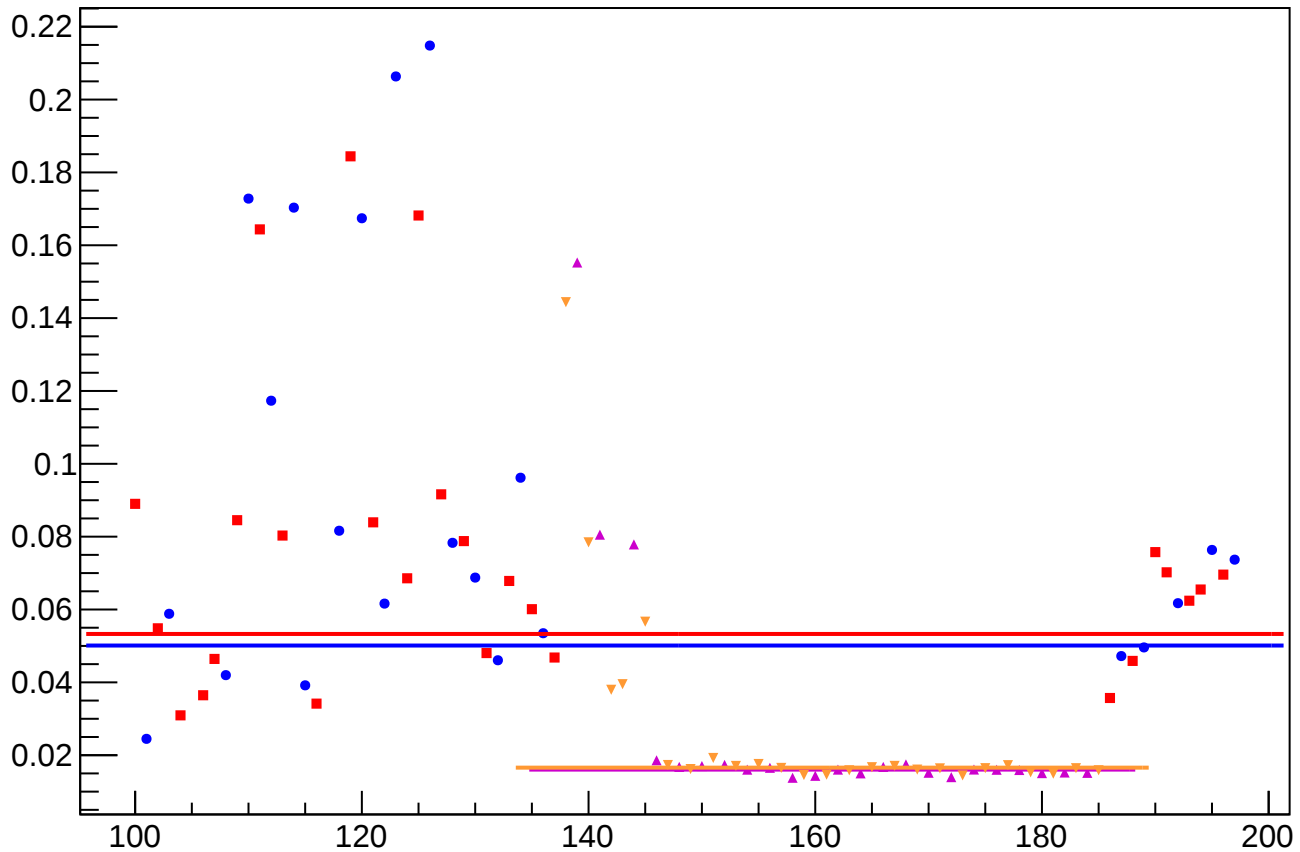
Right: -0.225 ± 0.000 $\chi^2/\text{NDF}: 8121556182.1/47$

In: 2.174 ± 0.000 $\chi^2/\text{NDF}: 79986394842.8/44$

Out: 2.215 ± 0.000 $\chi^2/\text{NDF}: 84700823122.8/50$

All: 2.194 ± 0.000 $\chi^2/\text{NDF}: 164731326677.6$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.050 $\pm$ 0.000 χ^2 /NDF: 3307498.2/21

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.053 $\pm$ 0.000 χ^2 /NDF: 2633732.6/25

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5030430.5/47

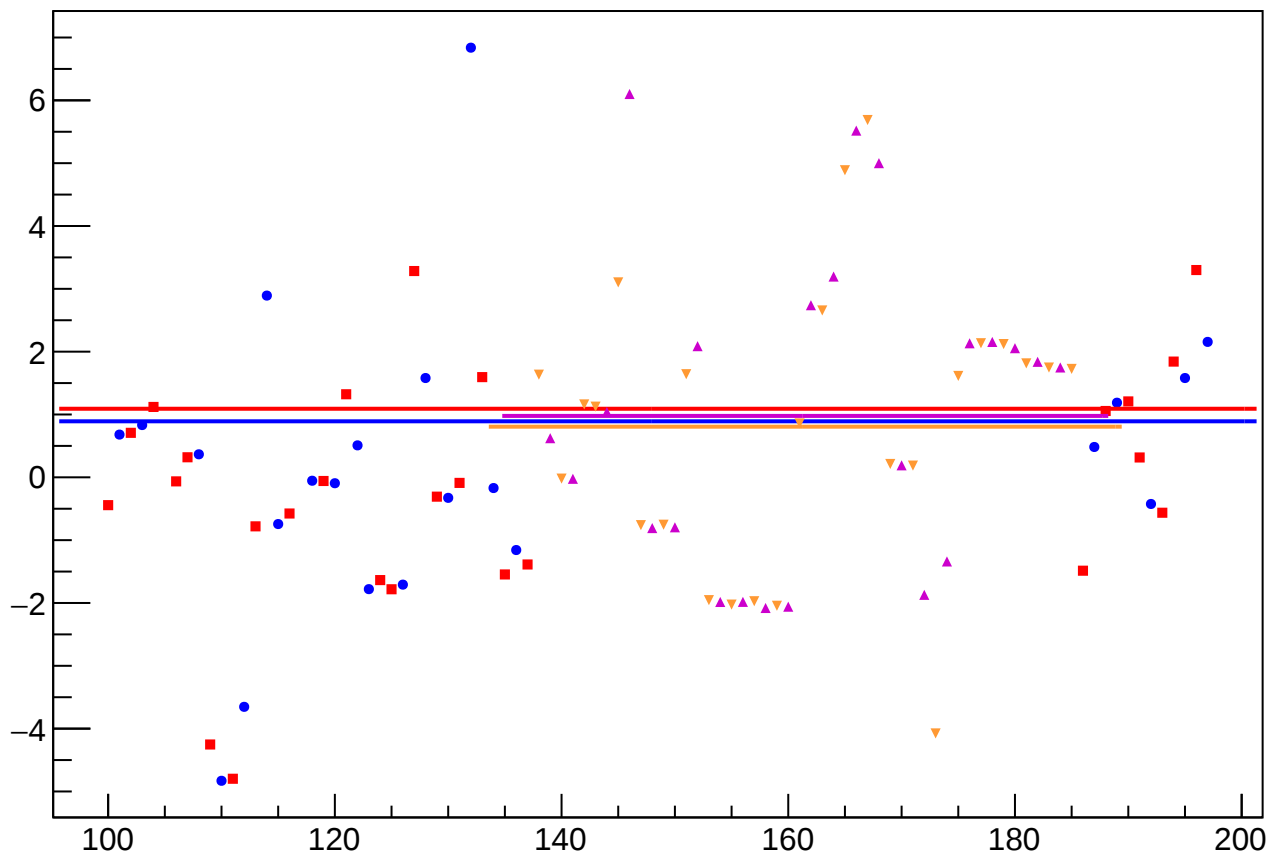
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 5967569.4/47

In: 0.018 $\pm$ 0.000 χ^2 /NDF:11168620.7/44

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:12317864.8/50

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 23528236.4/95

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.891 ± 0.000 $\chi^2/\text{NDF}: 18369626144.8/21$

Left Out: 0.806 ± 0.000 $\chi^2/\text{NDF}: 507578952196.2/24$

Right Out: 1.091 ± 0.000 $\chi^2/\text{NDF}: 22508660052.5/25$

Left In: 0.977 ± 0.000 $\chi^2/\text{NDF}: 568209676597.4/22$

Left: 0.892 ± 0.000 $\chi^2/\text{NDF}: 1077036497291.8/47$

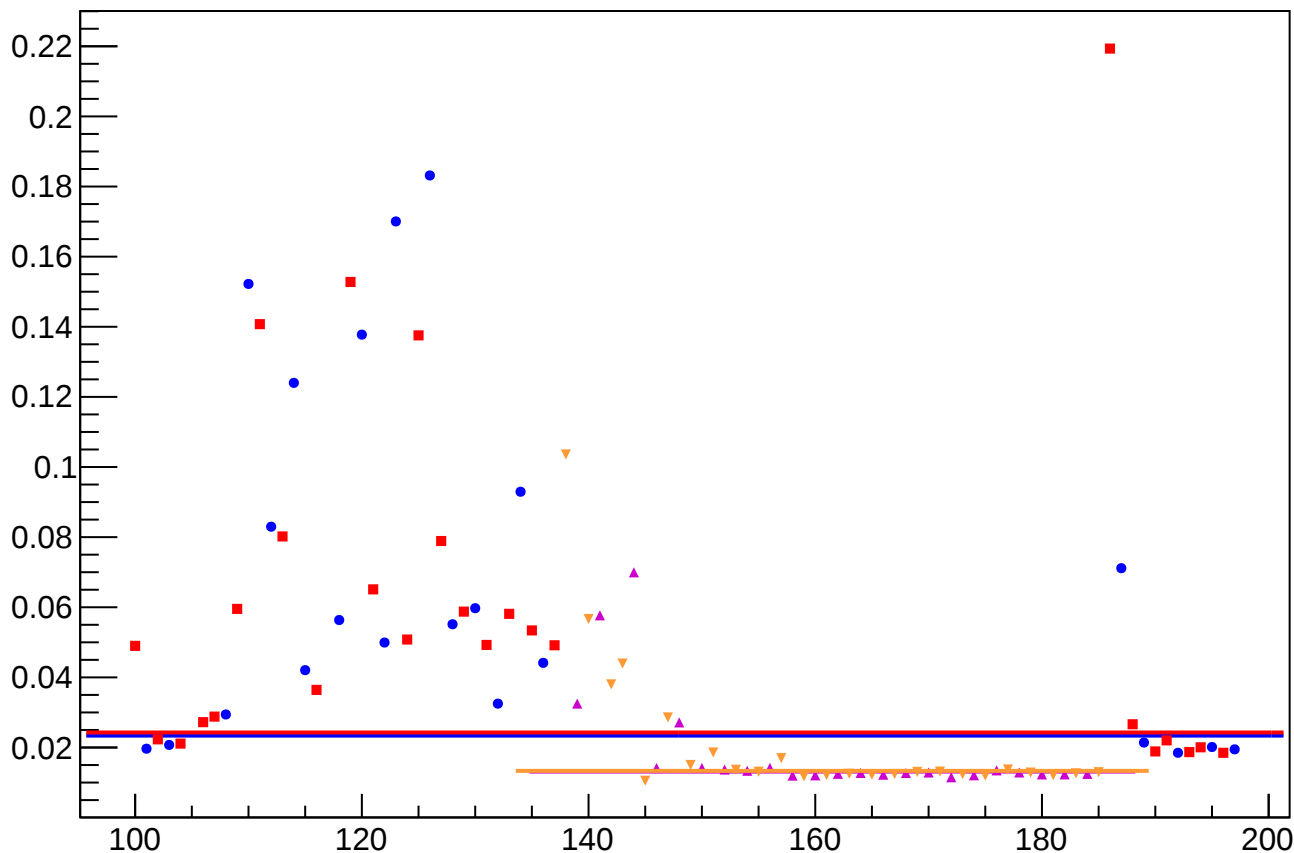
Right: 0.996 ± 0.000 $\chi^2/\text{NDF}: 41096112991.0/47$

In: 0.968 ± 0.000 $\chi^2/\text{NDF}: 586648045330.3/44$

Out: 0.840 ± 0.000 $\chi^2/\text{NDF}: 530905214888.8/50$

All: 0.904 ± 0.000 $\chi^2/\text{NDF}: 1118341454628.$

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 3648425.0/21

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.024+/-0.000 χ^2/NDF : 4550994.3/25

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

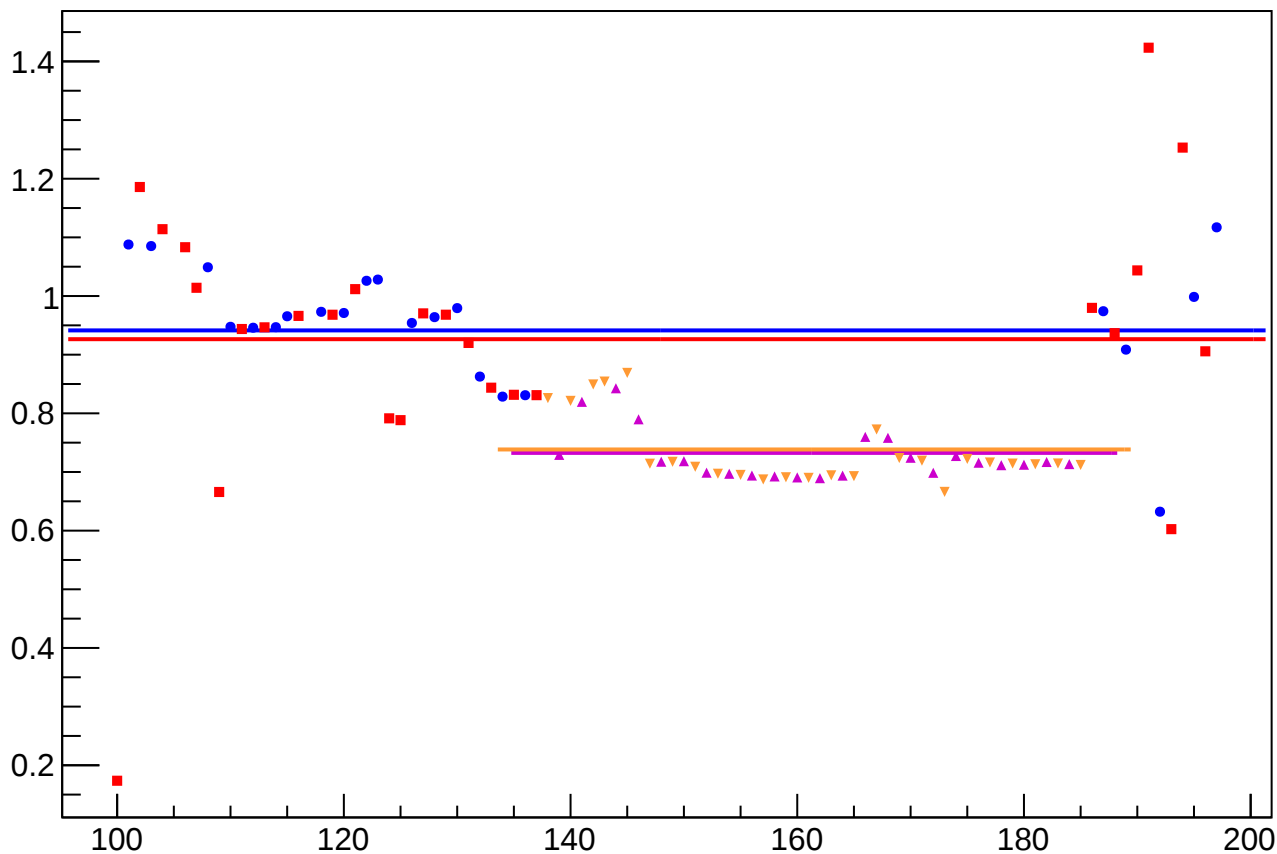
Right: 0.024+/-0.000 χ^2/NDF : 8208077.1/47

In: 0.014+/-0.000 χ^2/NDF : 7554664.4/44

Out: 0.015+/-0.000 χ^2/NDF : 9787233.9/50

All: 0.014+/-0.000 χ^2/NDF : 17355318.9/95

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.941 $\pm$ 0.000 χ^2 /NDF: 312416196.5/21

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310195180.4/24

Right Out: 0.926 $\pm$ 0.000 χ^2 /NDF: 660832067.4/25

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 481708989.2/47

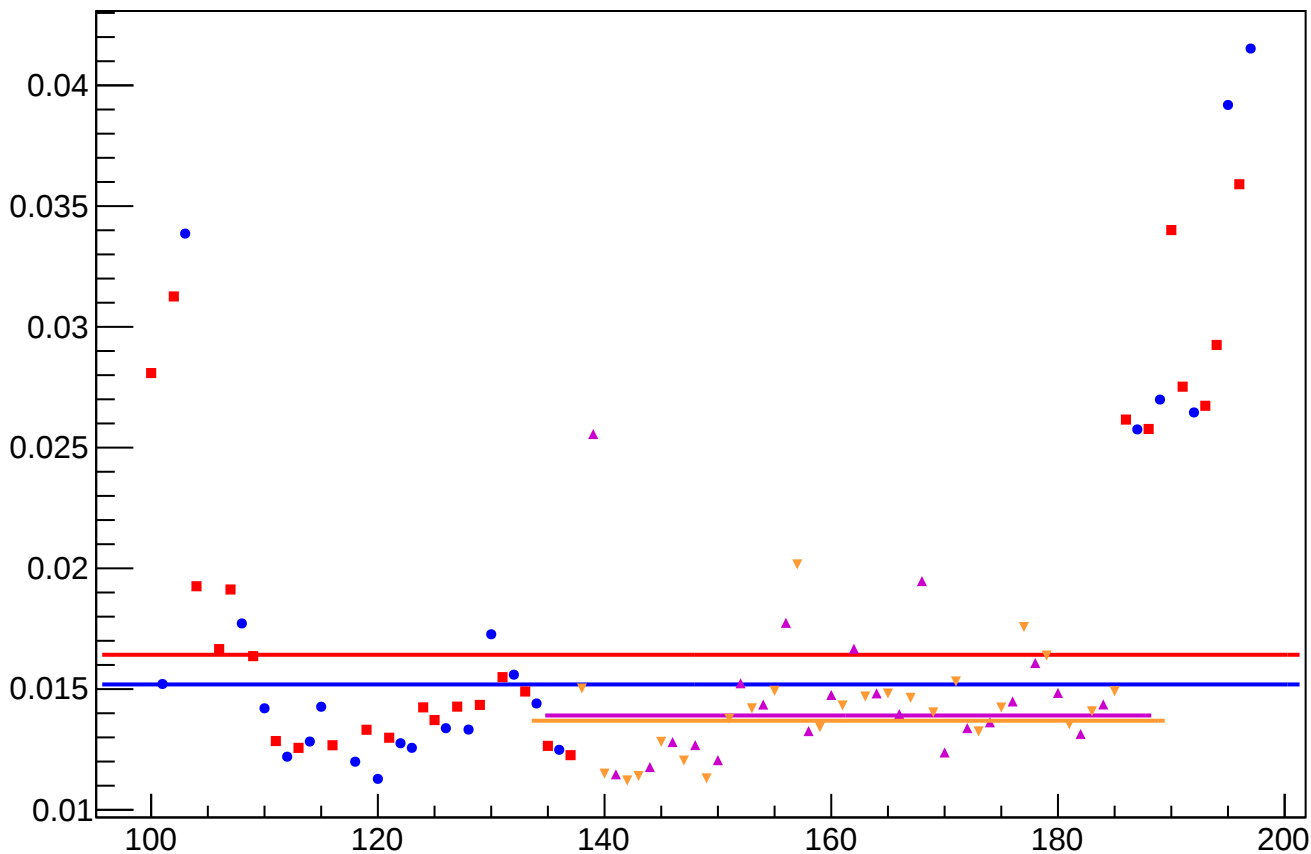
Right: 0.934 $\pm$ 0.000 χ^2 /NDF: 977061061.2/47

In: 0.795 $\pm$ 0.000 χ^2 /NDF:1518187239.7/44

Out: 0.792 $\pm$ 0.000 χ^2 /NDF:1836085175.7/50

All: 0.793 $\pm$ 0.000 χ^2 /NDF: 3354791092.1/95

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 2310656.6/21

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.016+/-0.000 χ^2/NDF : 2260514.7/25

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

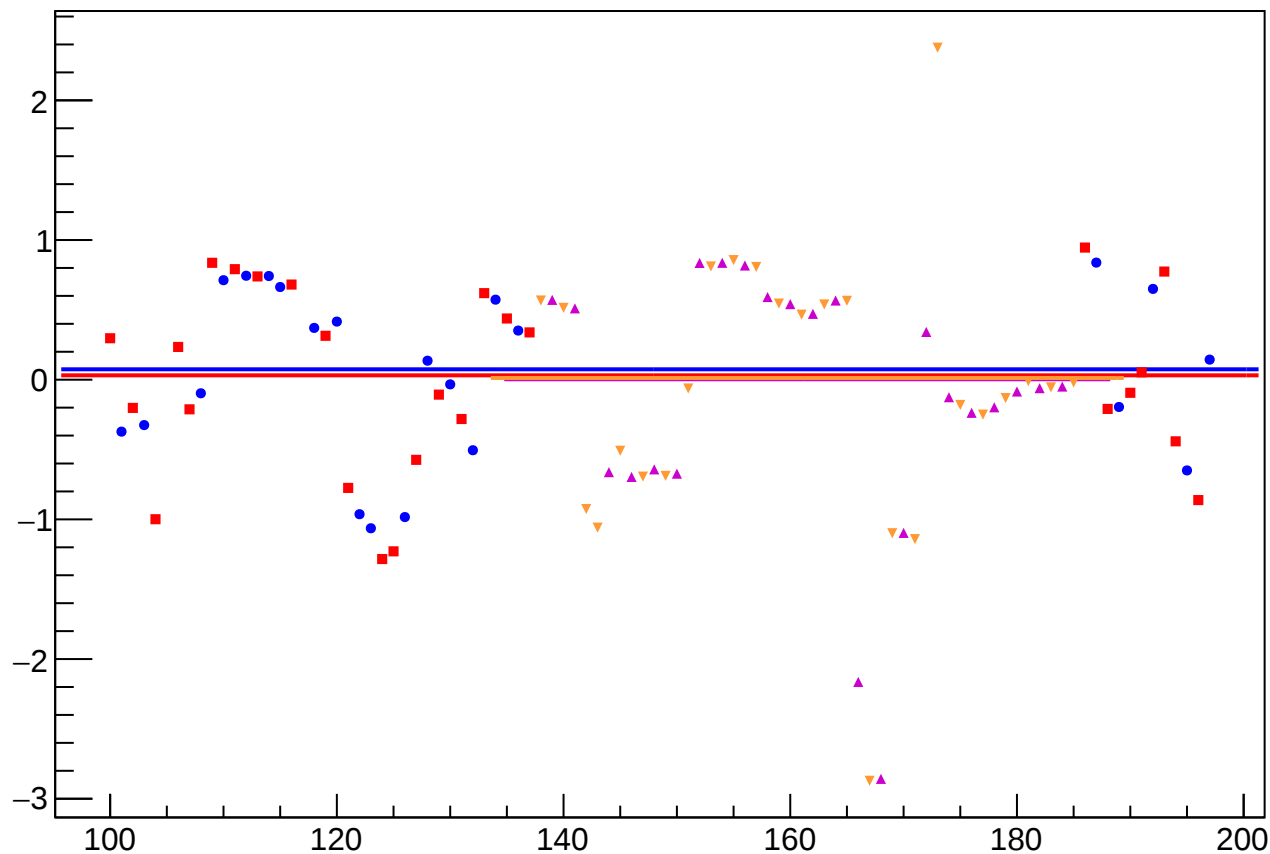
Right: 0.016+/-0.000 χ^2/NDF : 4622414.8/47

In: 0.014+/-0.000 χ^2/NDF : 3157329.0/44

Out: 0.014+/-0.000 χ^2/NDF : 3153999.5/50

All: 0.014+/-0.000 χ^2/NDF : 6314895.3/95

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.074+/-0.000 χ^2/NDF : 12272454730.4/21

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: 0.031+/-0.000 χ^2/NDF : 22625150459.7/25

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

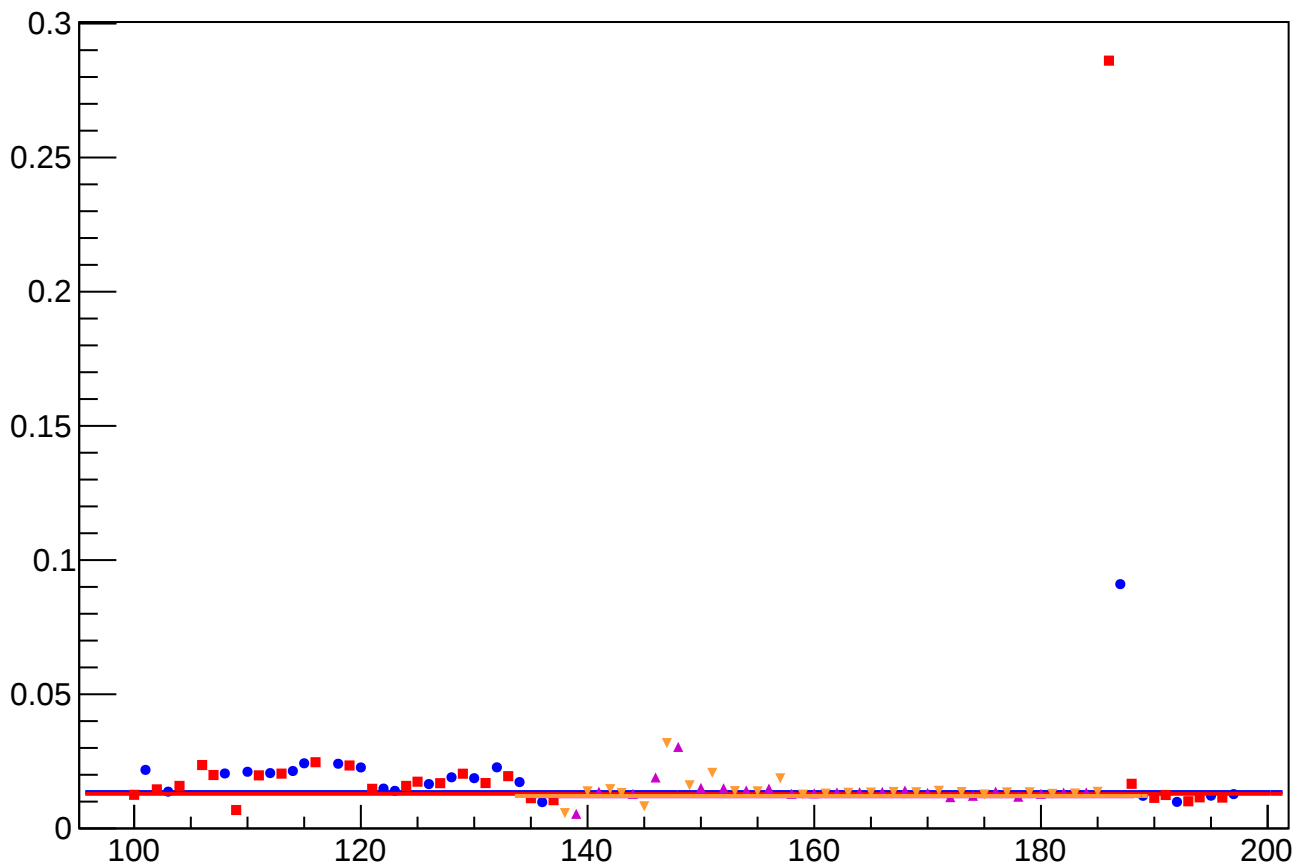
Right: 0.051+/-0.000 χ^2/NDF : 34942255390.2/47

In: 0.024+/-0.000 χ^2/NDF : 91255612181.3/44

Out: 0.019+/-0.000 χ^2/NDF : 119021728891.0/50

All: 0.021+/-0.000 χ^2/NDF : 210279796385.3

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1805928.0/21

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3105238.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2479343.7/25

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3003502.9/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6110012.2/47

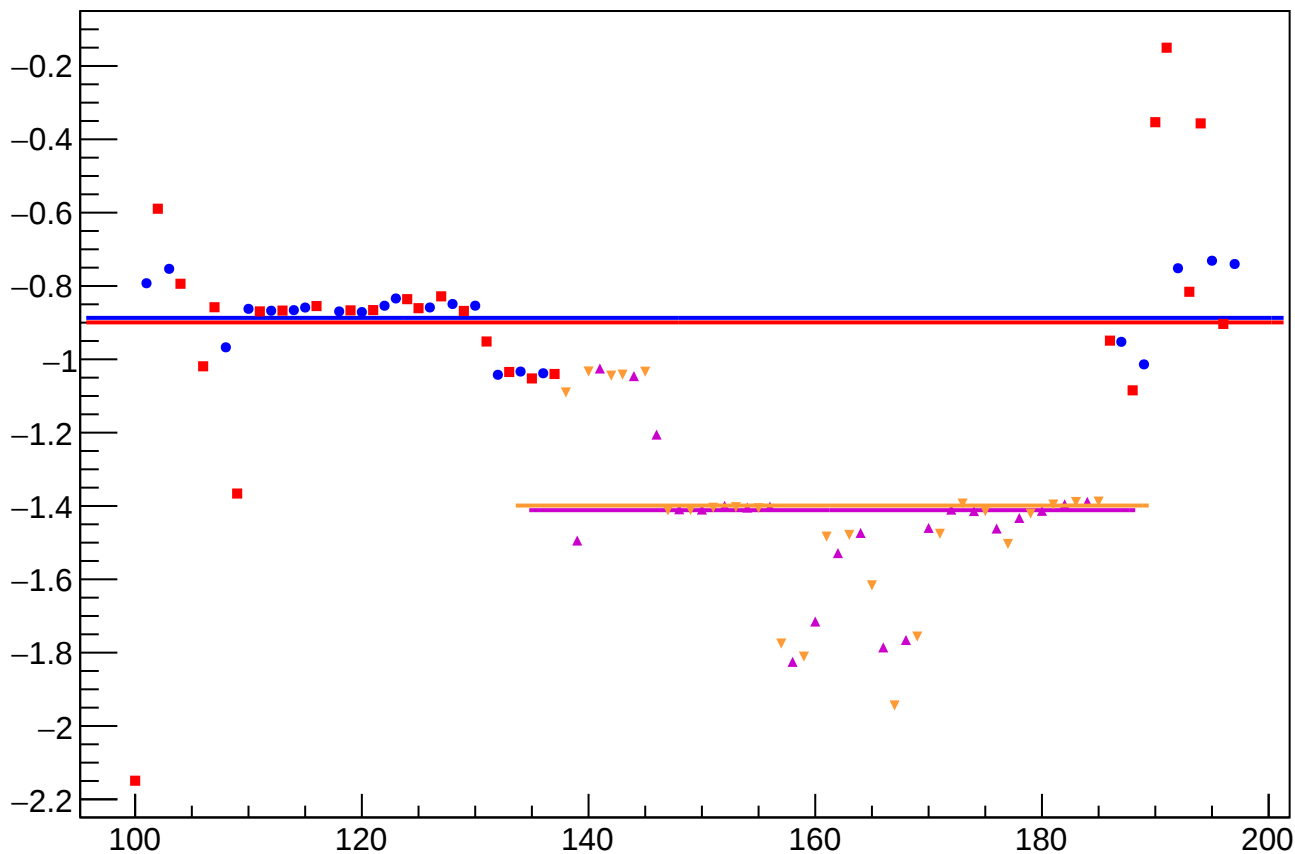
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4304241.2/47

In: 0.012 $\pm$ 0.000 χ^2 /NDF:4957535.1/44

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5631553.3/50

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10590153.9/95

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.887+/-0.000 χ^2/NDF : 48941004.4/21

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.899+/-0.000 χ^2/NDF : 242360450.1/25

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.405+/-0.000 χ^2/NDF : 1251791467.1/47

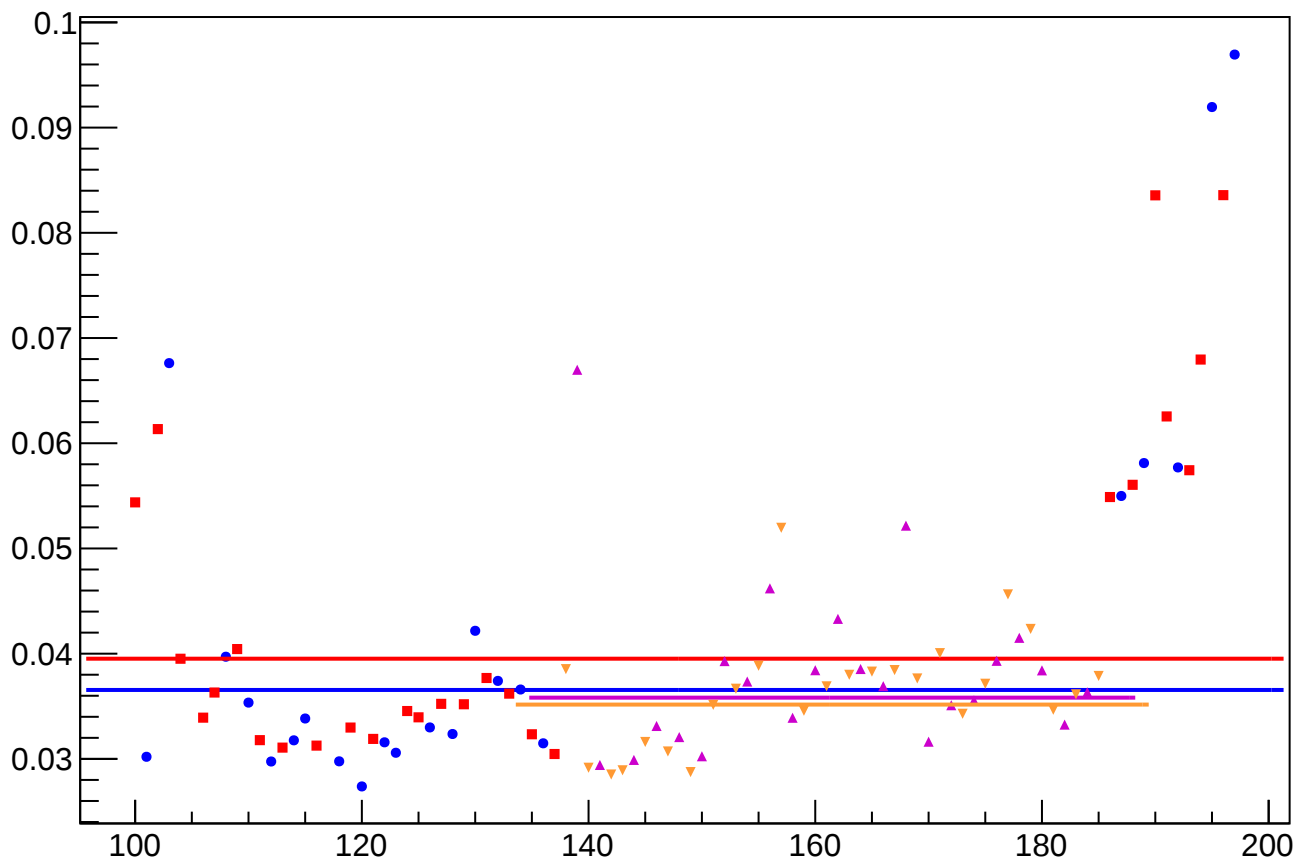
Right: -0.893+/-0.000 χ^2/NDF : 291759674.7/47

In: -1.237+/-0.000 χ^2/NDF : 1653044052.9/44

Out: -1.240+/-0.000 χ^2/NDF : 2007043431.4/50

All: -1.239+/-0.000 χ^2/NDF : 3660212607.1/9

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.037 $\pm$ 0.000 χ^2 /NDF: 1984841.8/21

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.040 $\pm$ 0.000 χ^2 /NDF: 1762449.5/25

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1464751.5/47

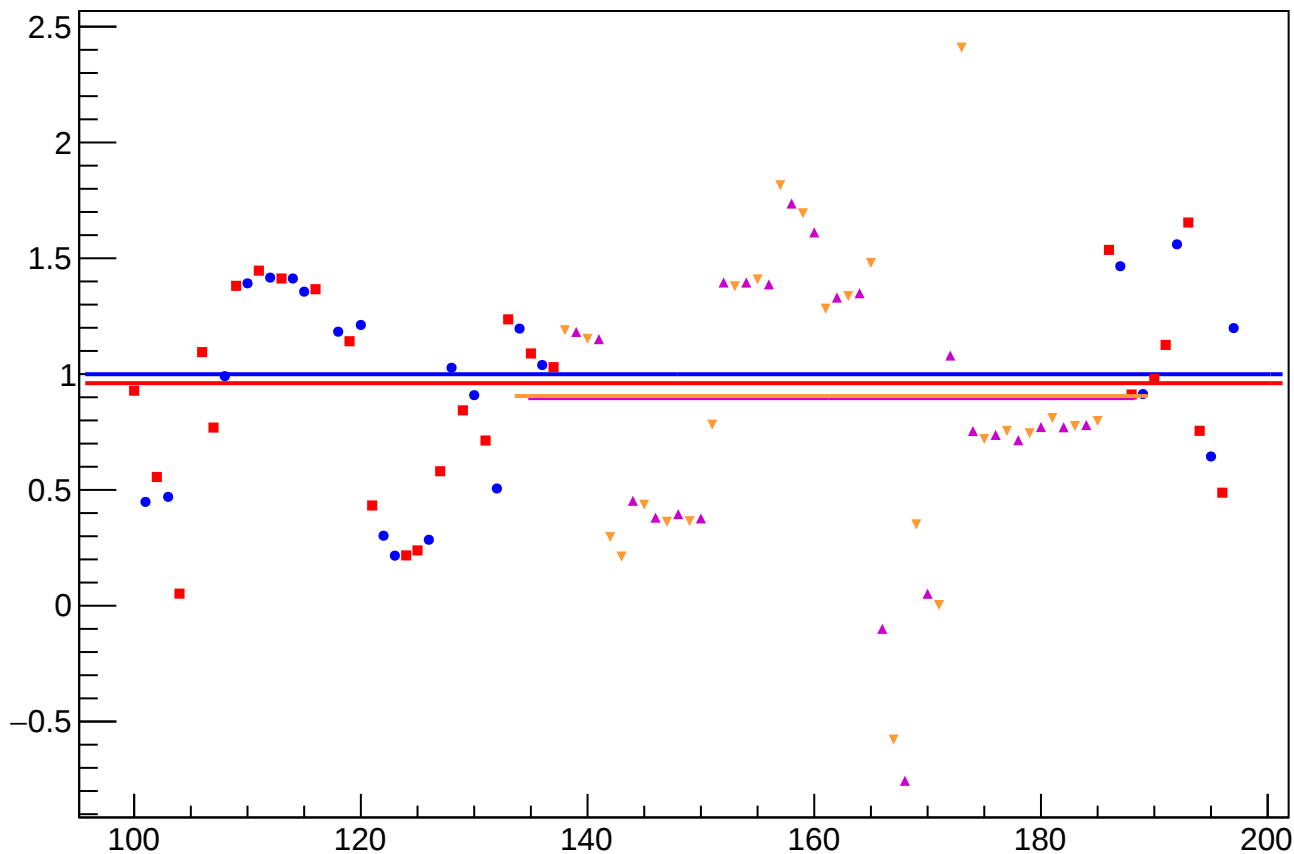
Right: 0.038 $\pm$ 0.000 χ^2 /NDF: 3800176.1/47

In: 0.036 $\pm$ 0.000 χ^2 /NDF:2853232.0/44

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:2514186.1/50

All: 0.036 $\pm$ 0.000 χ^2 /NDF: 5371689.1/95

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.999 $\pm$ 0.000

χ^2 /NDF: 14278678737.9/21

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 0.979 $\pm$ 0.000 χ^2 /NDF: 33545902488.3/47

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.929 $\pm$ 0.000 χ^2 /NDF: 81557571874.3/44

Right Out: 0.961 $\pm$ 0.000

χ^2 /NDF: 19193483159.6/25

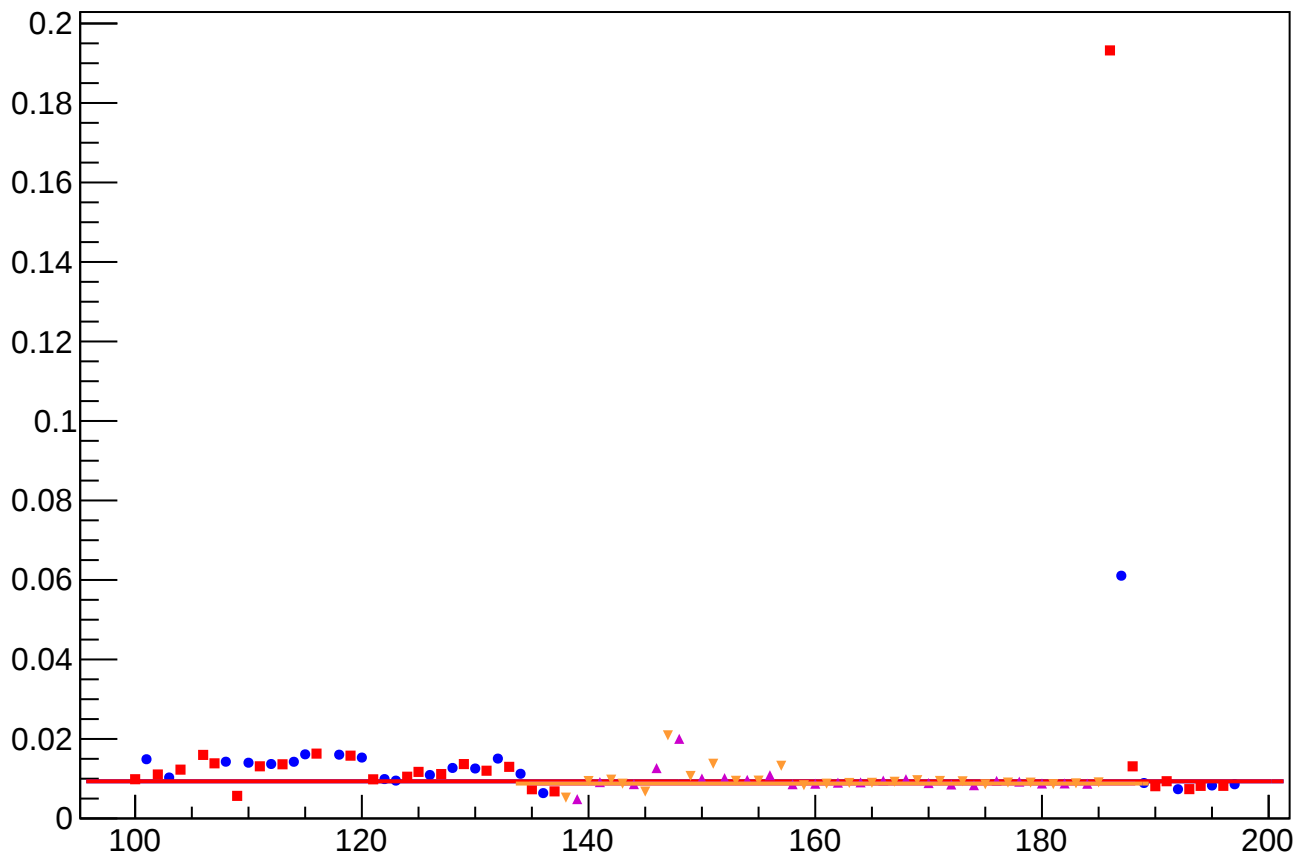
Out: 0.923 $\pm$ 0.000 χ^2 /NDF: 103677425388.7/50

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.926 $\pm$ 0.000 χ^2 /NDF: 185239454674.2

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1694404.9/21

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2154518.6/25

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

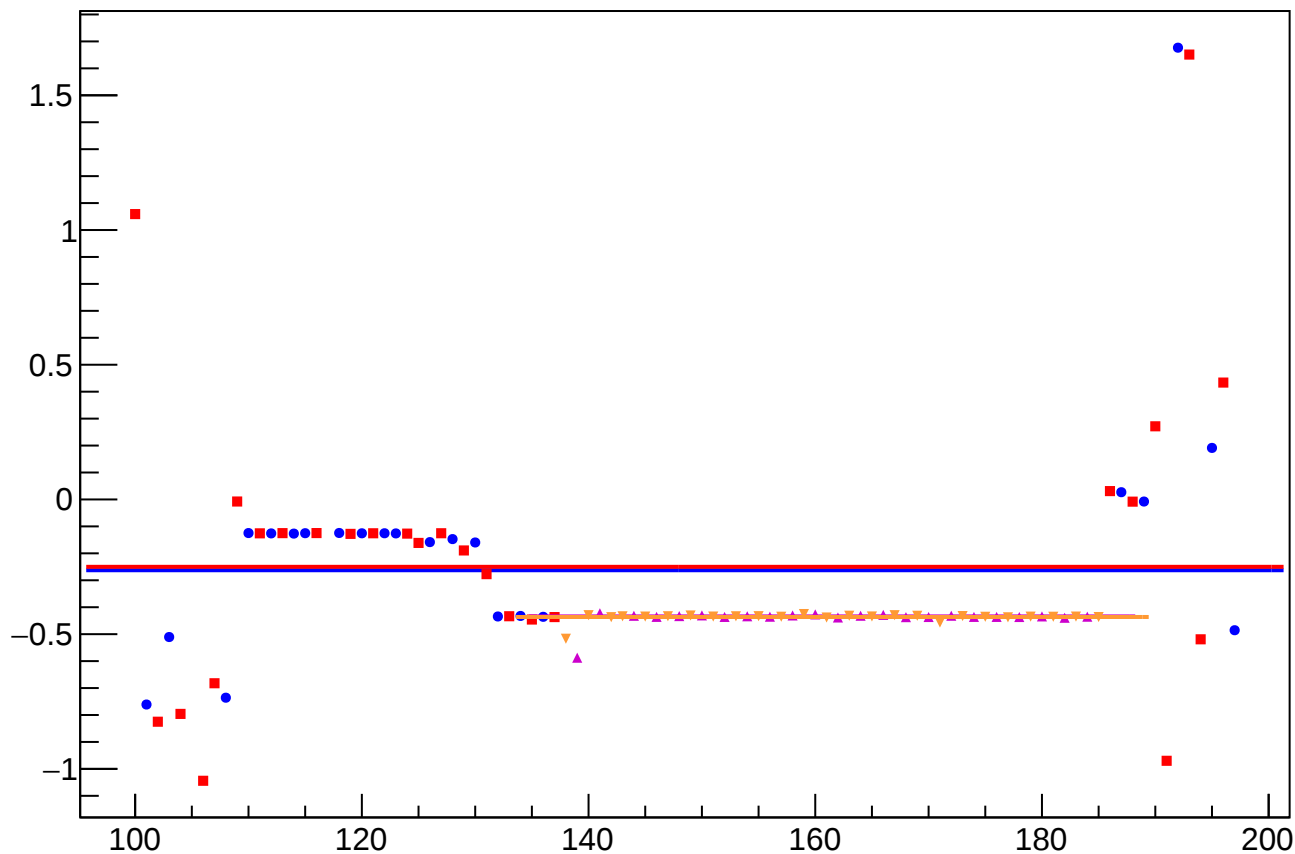
Right: 0.009+/-0.000 χ^2/NDF : 3848926.6/47

In: 0.009+/-0.000 χ^2/NDF :3344021.7/44

Out: 0.009+/-0.000 χ^2/NDF :3897949.5/50

All: 0.009+/-0.000 χ^2/NDF : 7242010.5/95

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.263+/-0.000 χ^2/NDF : 1897822852.1/21

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.250+/-0.000 χ^2/NDF : 1835687853.2/25

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

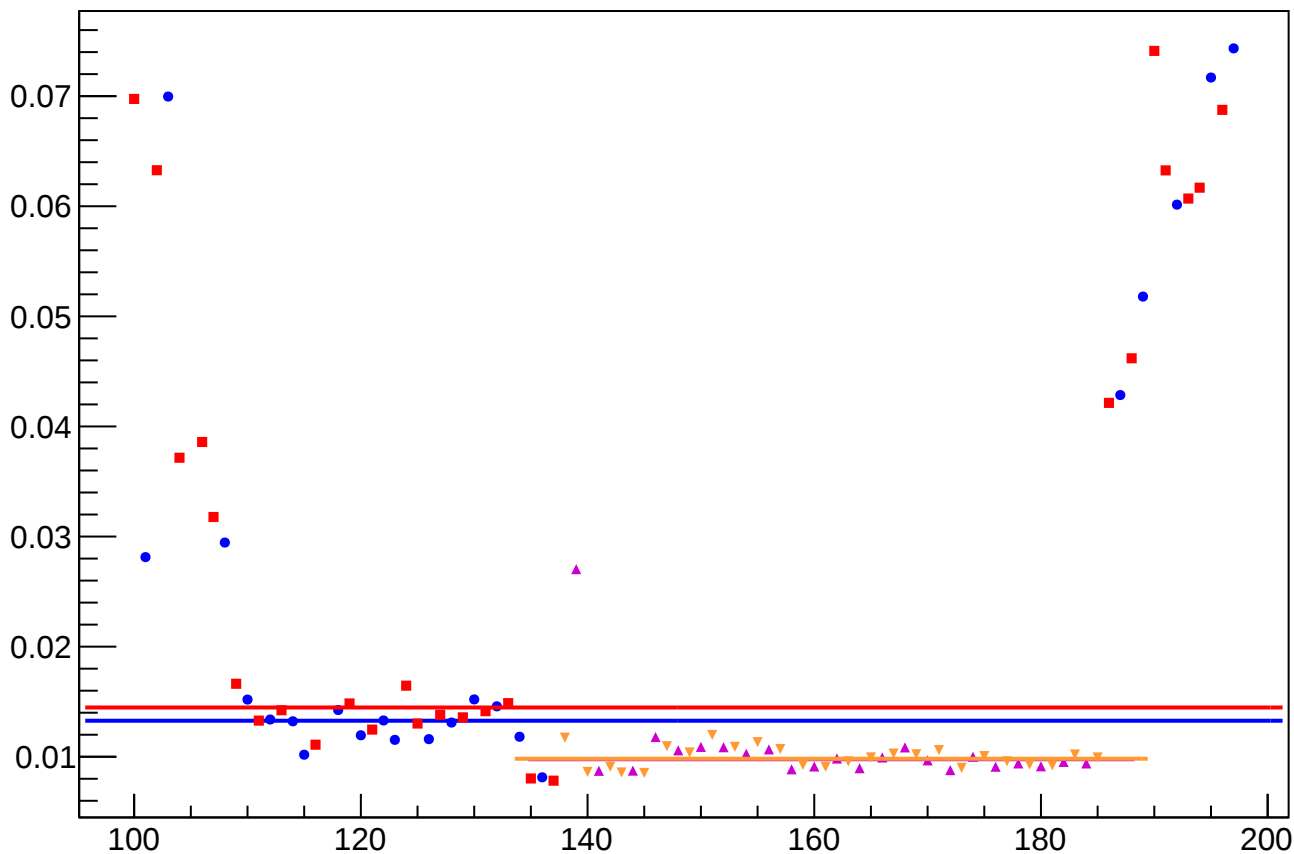
Right: -0.257+/-0.000 χ^2/NDF : 3736082921.1/47

In: -0.404+/-0.000 χ^2/NDF : 2712597268.7/44

Out: -0.406+/-0.000 χ^2/NDF : 2768032693.0/50

All: -0.405+/-0.000 χ^2/NDF : 5481225077.5/9

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 5465274.0/21

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :269242.6/24

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 6658285.3/25

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1017115.3/47

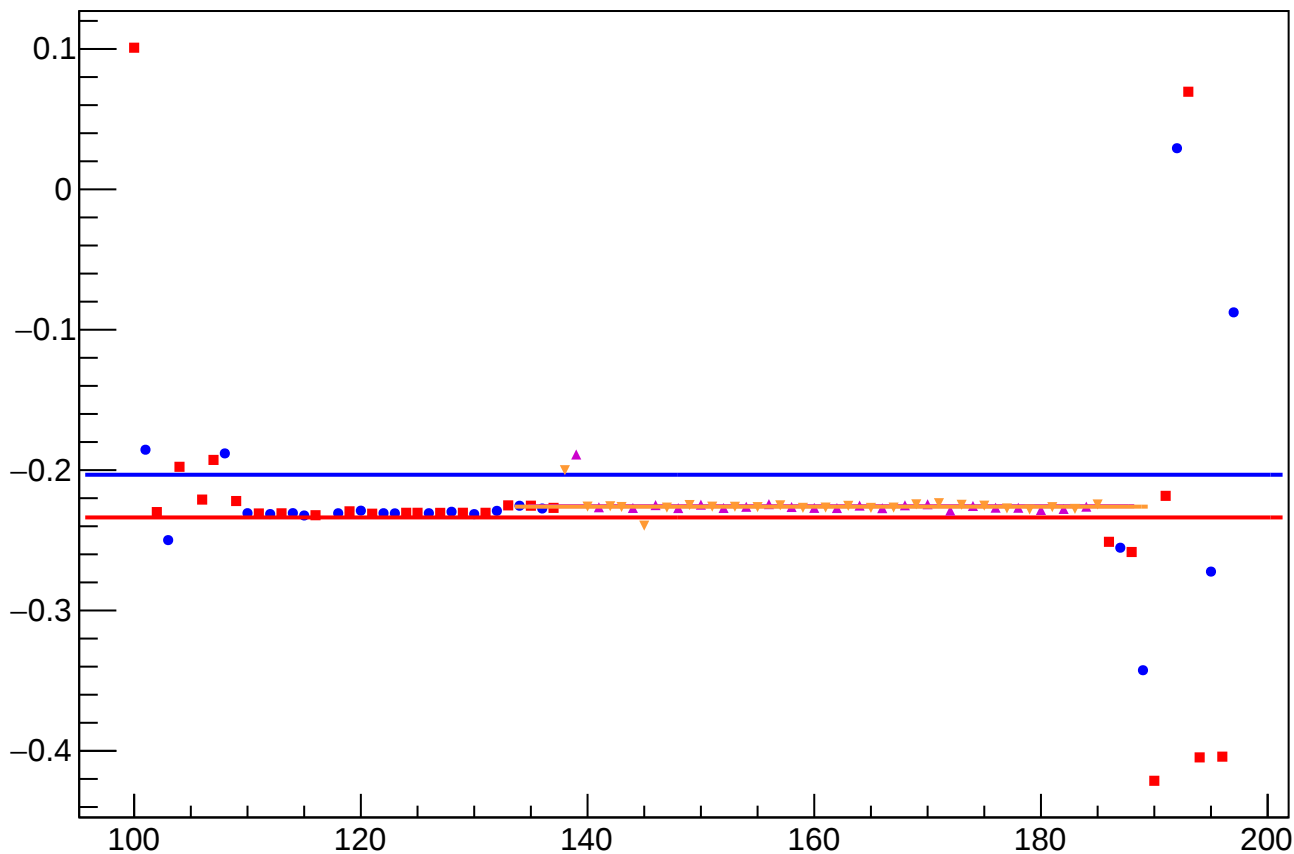
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 12169753.1/47

In: 0.010 $\pm$ 0.000 χ^2/NDF :6871902.0/44

Out: 0.011 $\pm$ 0.000 χ^2/NDF :8057572.3/50

All: 0.010 $\pm$ 0.000 χ^2/NDF : 14935306.6/95

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.203+/-0.000 χ^2/NDF : 2211958581.9/21

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.234+/-0.000 χ^2/NDF : 3882932404.9/25

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

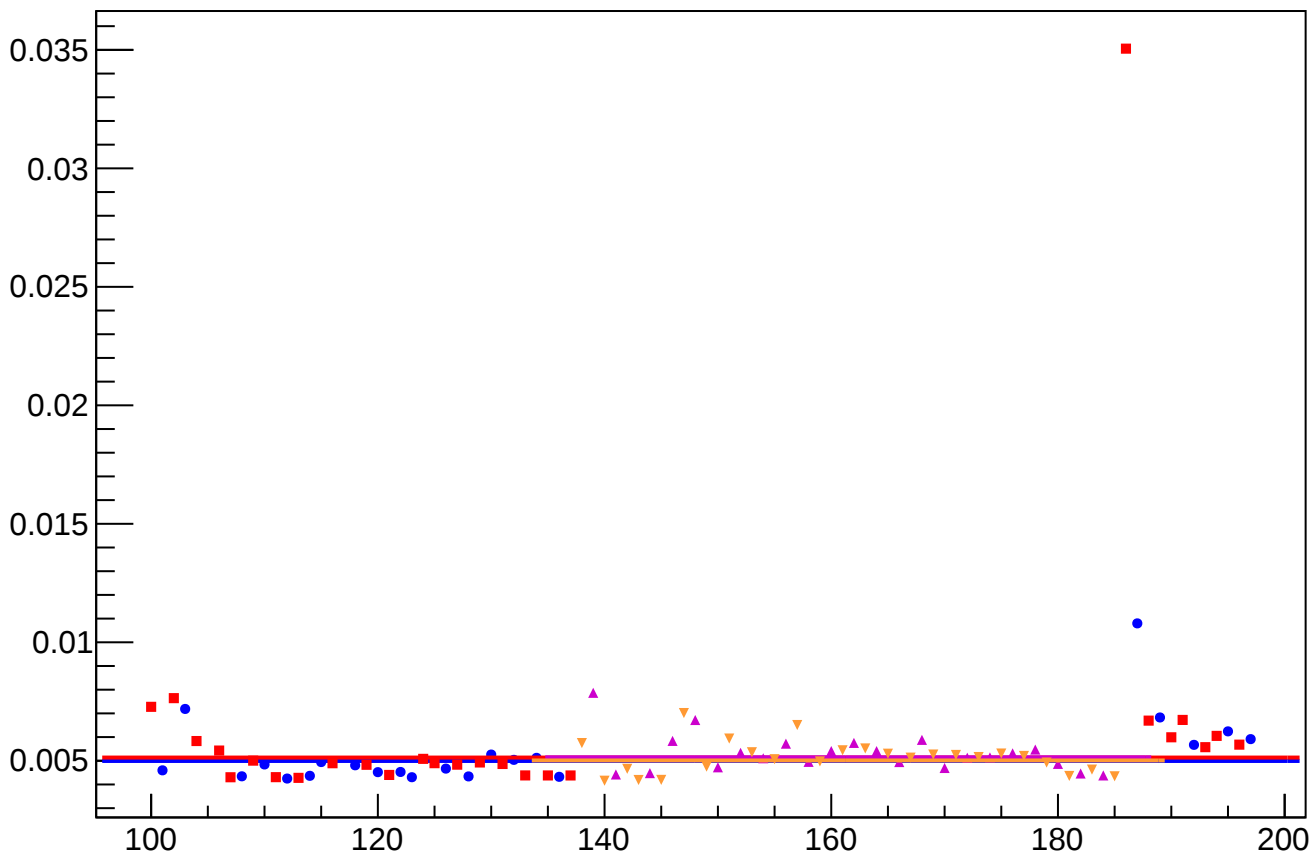
Right: -0.219+/-0.000 χ^2/NDF : 6263333392.1/47

In: -0.218+/-0.000 χ^2/NDF : 2339557265.8/44

Out: -0.229+/-0.000 χ^2/NDF : 3918538391.8/50

All: -0.223+/-0.000 χ^2/NDF : 6321563656.2/9

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 499816.3/21

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1022899.8/25

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

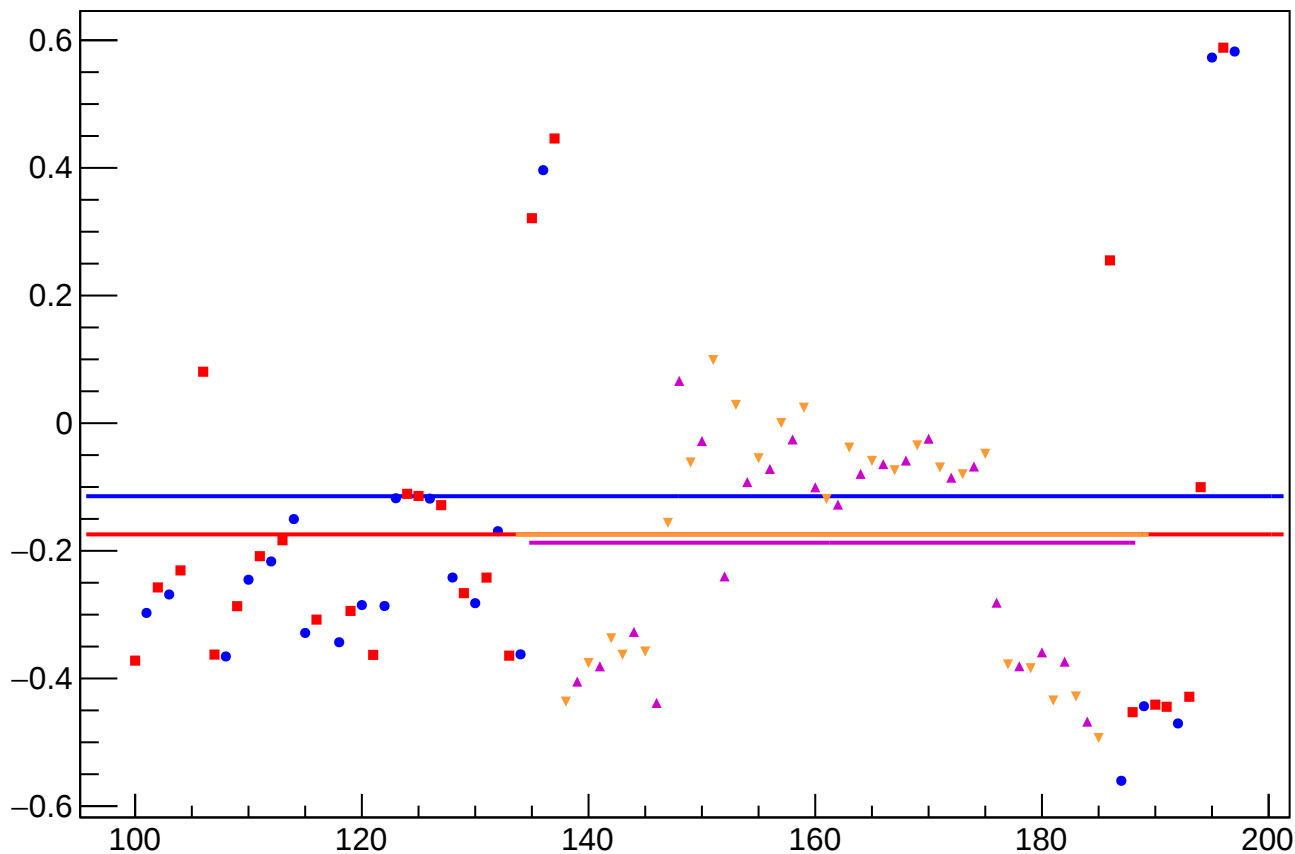
Right: 0.005+/-0.000 χ^2/NDF : 1530242.3/47

In: 0.005+/-0.000 χ^2/NDF : 1003558.1/44

Out: 0.005+/-0.000 χ^2/NDF : 1560819.0/50

All: 0.005+/-0.000 χ^2/NDF : 2565487.9/95

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.114 ± 0.000 $\chi^2/\text{NDF}: 27627894957.0/21$

Left Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 18025533236.1/24$

Right Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 20308300564.5/25$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.181 ± 0.000 $\chi^2/\text{NDF}: 30888184231.6/47$

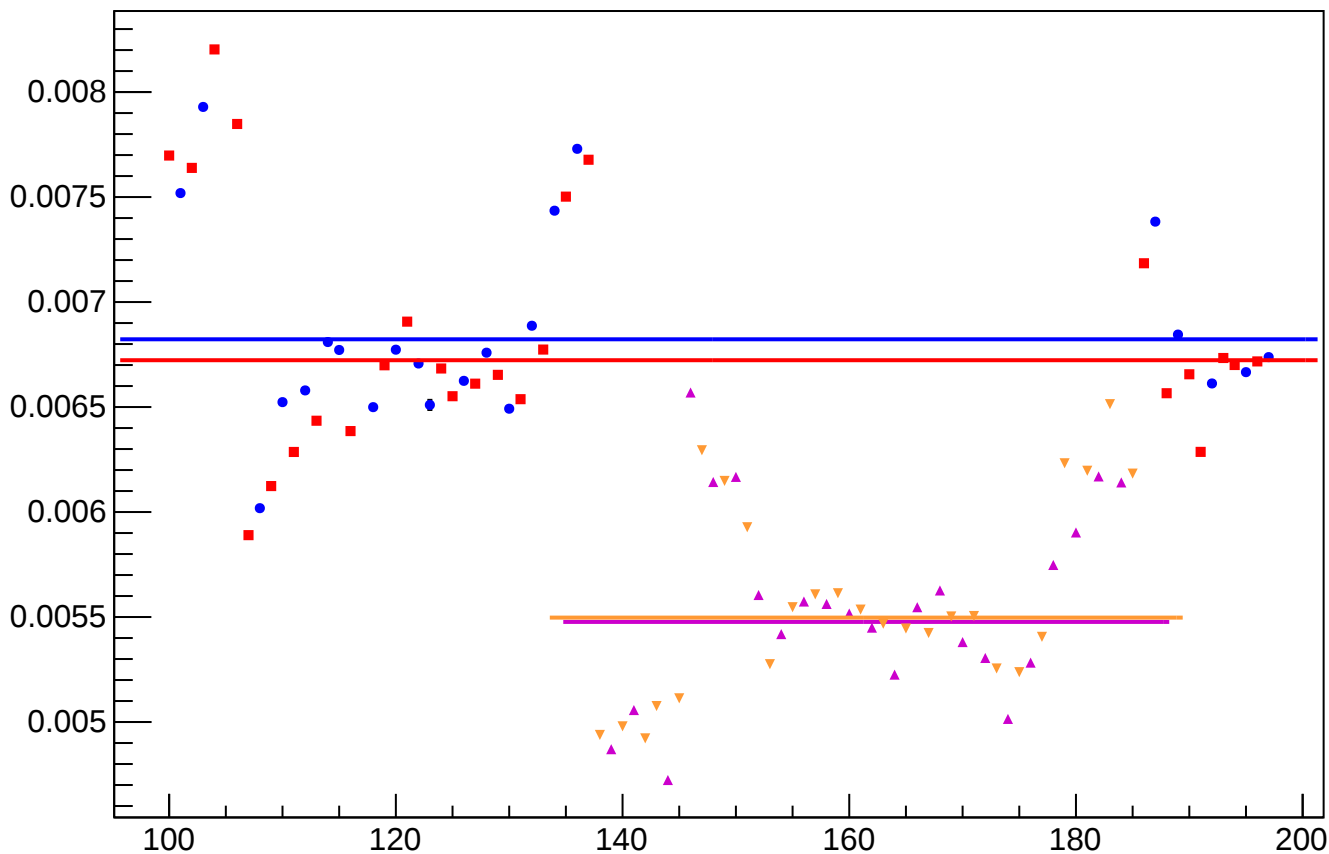
Right: -0.147 ± 0.000 $\chi^2/\text{NDF}: 48336208695.2/47$

In: -0.167 ± 0.000 $\chi^2/\text{NDF}: 41239867741.4/44$

Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 38333846200.7/50$

All: -0.171 ± 0.000 $\chi^2/\text{NDF}: 79593381181.2/100$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 84031.1/21

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 112263.3/25

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

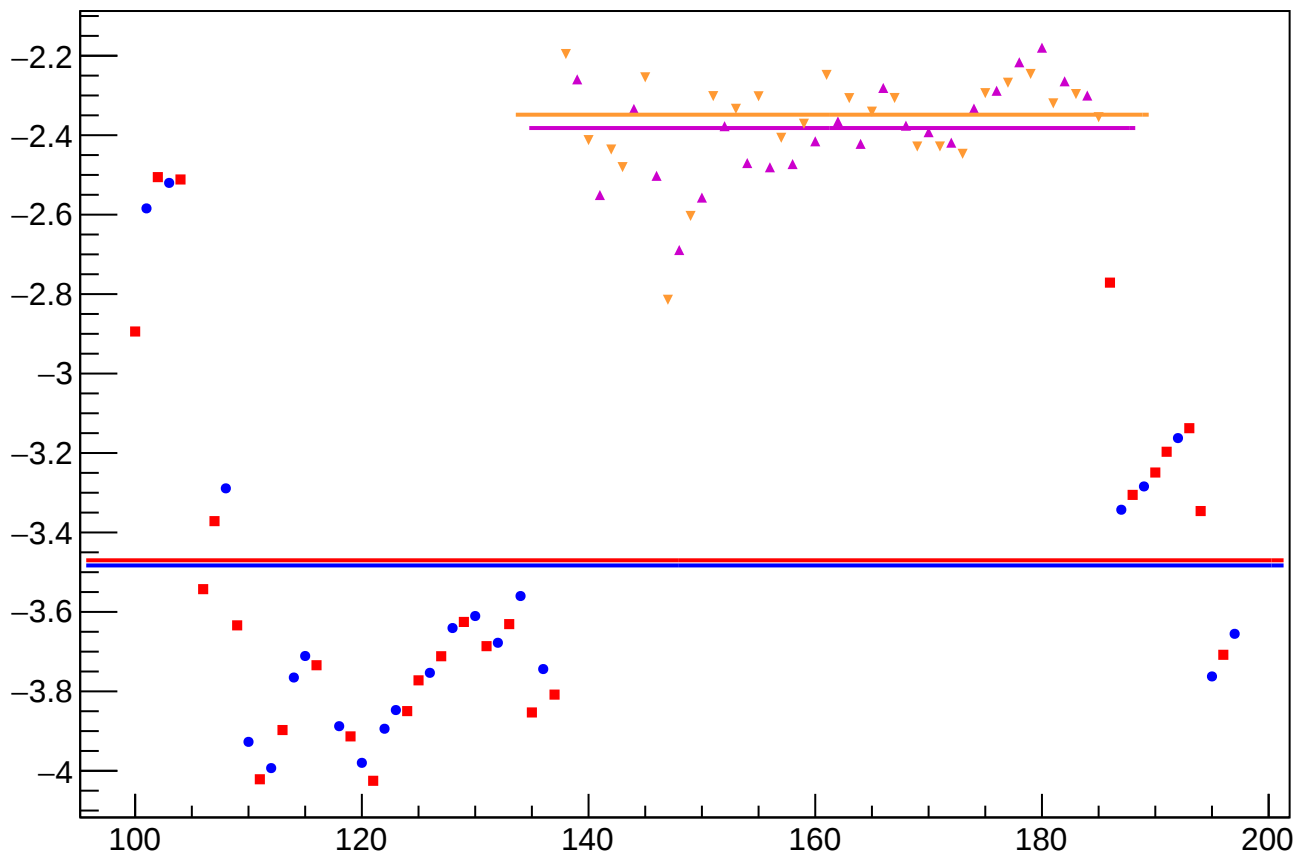
Right: 0.007+/-0.000 χ^2/NDF : 198513.8/47

In: 0.006+/-0.000 χ^2/NDF :828854.4/44

Out: 0.006+/-0.000 χ^2/NDF :827000.6/50

All: 0.006+/-0.000 χ^2/NDF : 1656066.1/95

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.483+/-0.000 χ^2/NDF : 28631439479.5/21

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.470+/-0.000 χ^2/NDF : 29505237797.6/25

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

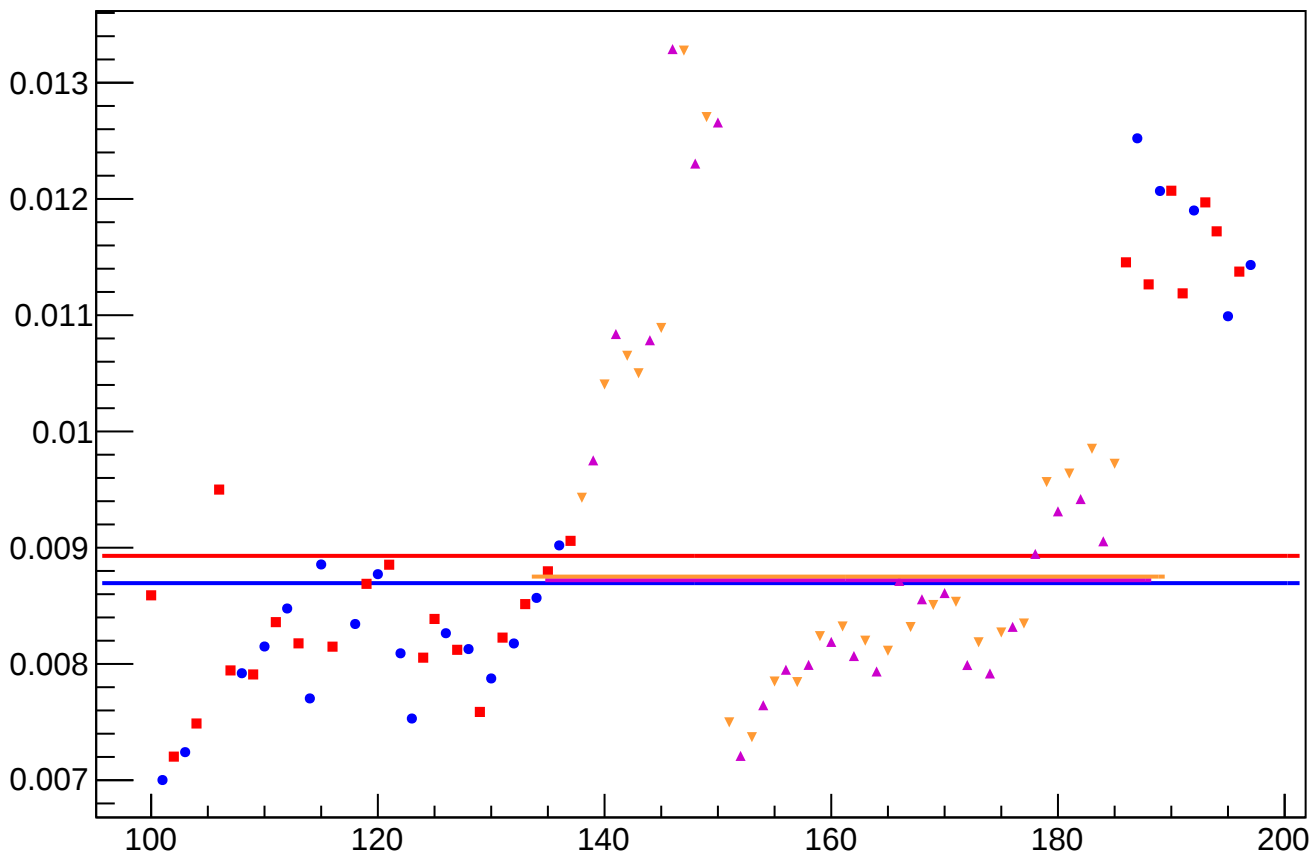
Right: -3.476+/-0.000 χ^2/NDF : 58147421498.5/47

In: -2.784+/-0.000 χ^2/NDF : 125342201893.5/44

Out: -2.766+/-0.000 χ^2/NDF : 136956544848.9/50

All: -2.774+/-0.000 χ^2/NDF : 262355319706.4

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 537078.7/21

Left Out: 0.009+/-0.000 χ^2/NDF : 663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 624340.3/25

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

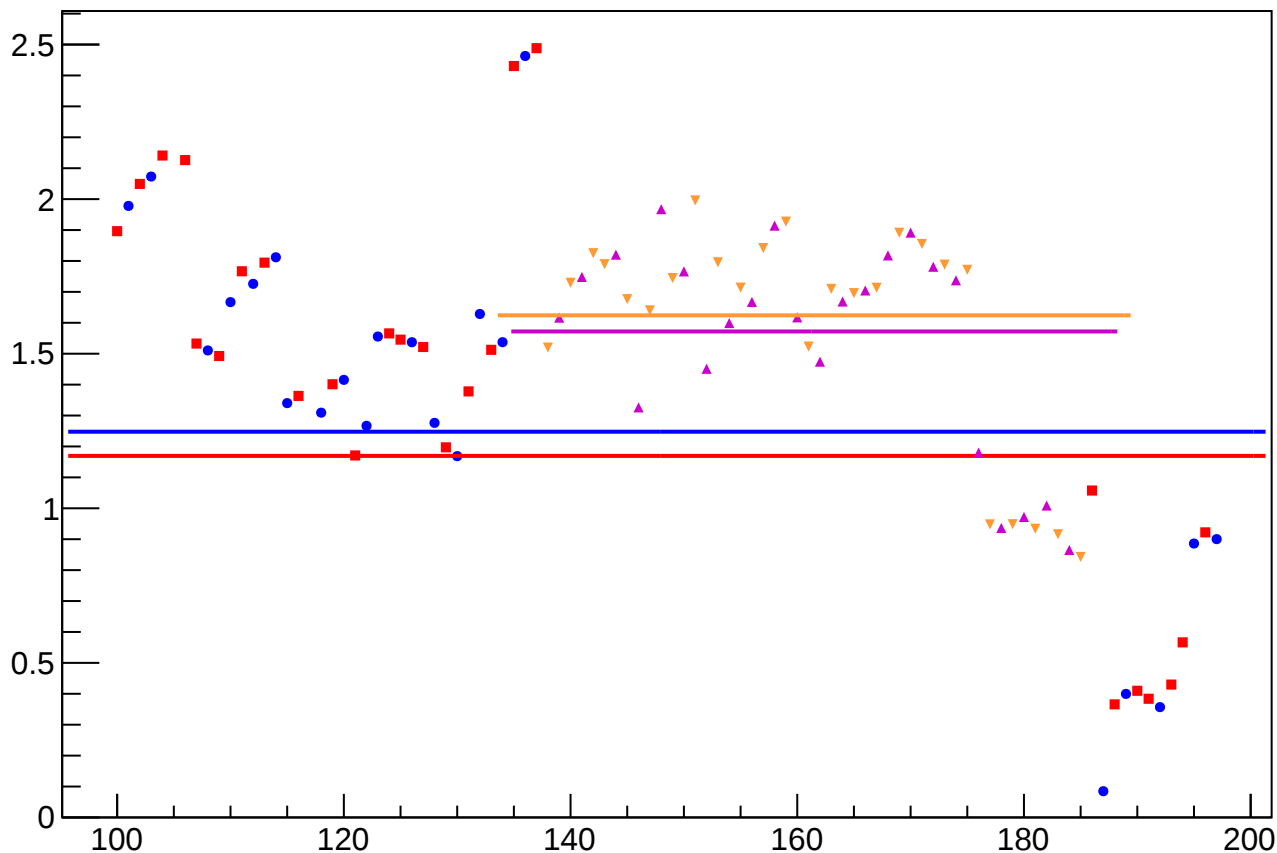
Right: 0.009+/-0.000 χ^2/NDF : 1168448.6/47

In: 0.009+/-0.000 χ^2/NDF : 1285045.6/44

Out: 0.009+/-0.000 χ^2/NDF : 1293338.6/50

All: 0.009+/-0.000 χ^2/NDF : 2582318.1/95

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.248+/-0.000 χ^2/NDF : 26144635654.0/21

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.169+/-0.000 χ^2/NDF : 32035796103.9/25

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

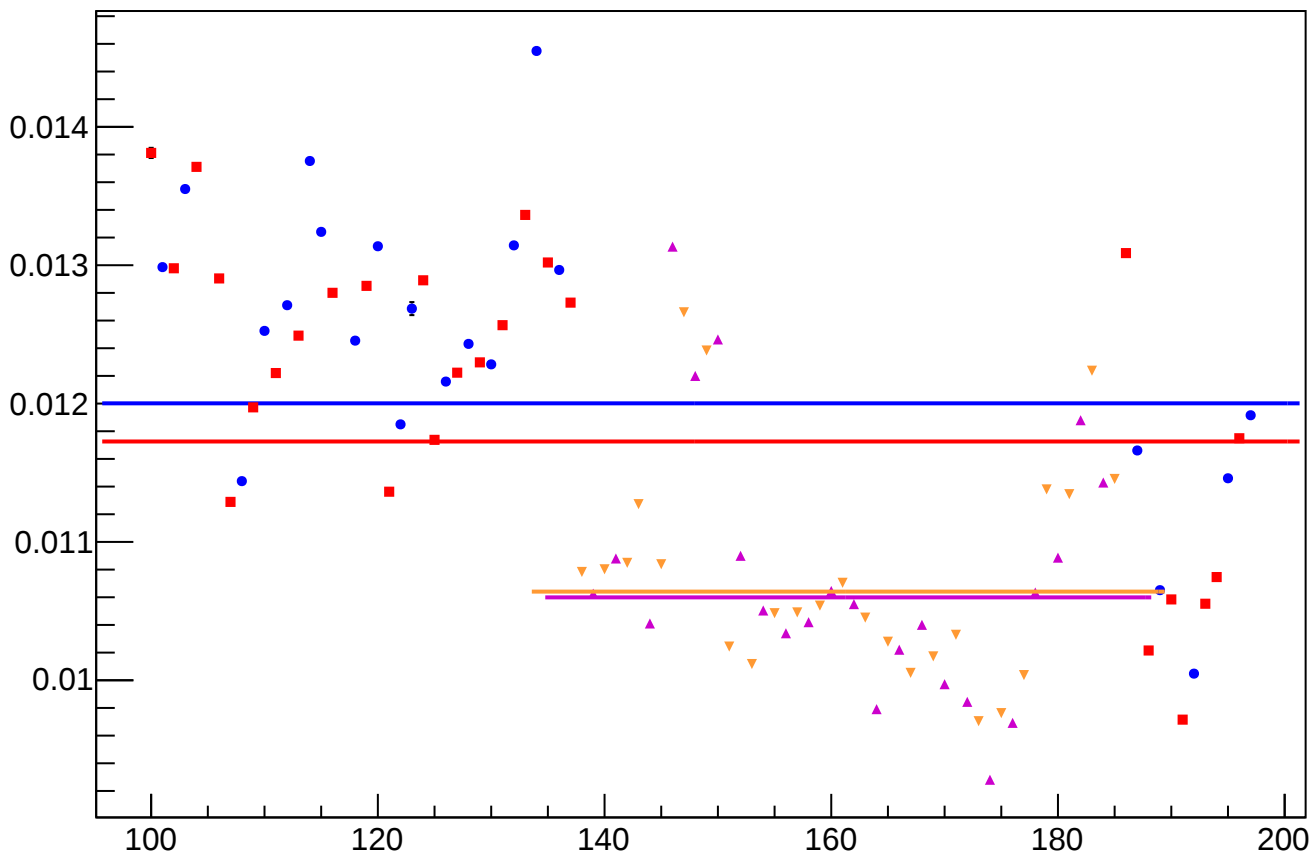
Right: 1.205+/-0.000 χ^2/NDF : 58401255775.0/47

In: 1.472+/-0.000 χ^2/NDF : 45177189134.1/44

Out: 1.471+/-0.000 χ^2/NDF : 59561509180.2/50

All: 1.471+/-0.000 χ^2/NDF : 104738871048.7

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 154913.1/21

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:159760.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 195263.9/25

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:204531.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 364556.9/47

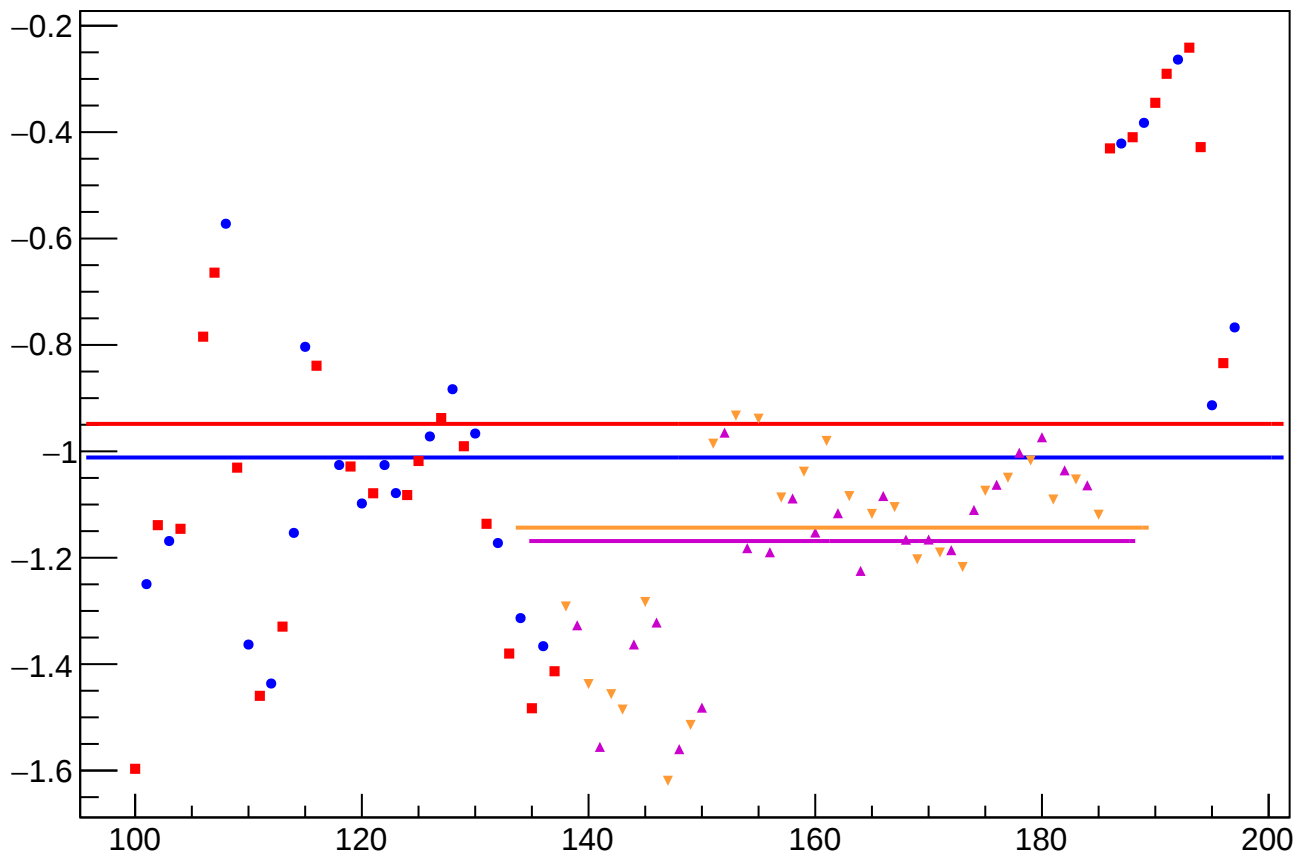
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 355669.5/47

In: 0.011 $\pm$ 0.000 χ^2 /NDF:539089.2/44

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:479143.2/50

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1018374.4/95

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.012 $\pm$ 0.000 χ^2 /NDF: 10440864490.5/21

Left Out: -1.143 $\pm$ 0.000 χ^2 /NDF: 7976364534.0/24

Right Out: -0.948 $\pm$ 0.000 χ^2 /NDF: 15622988368.5/25

Left In: -1.169 $\pm$ 0.000 χ^2 /NDF: 6362643368.6/22

Left: -1.156 $\pm$ 0.000 χ^2 /NDF: 14424995220.9/47

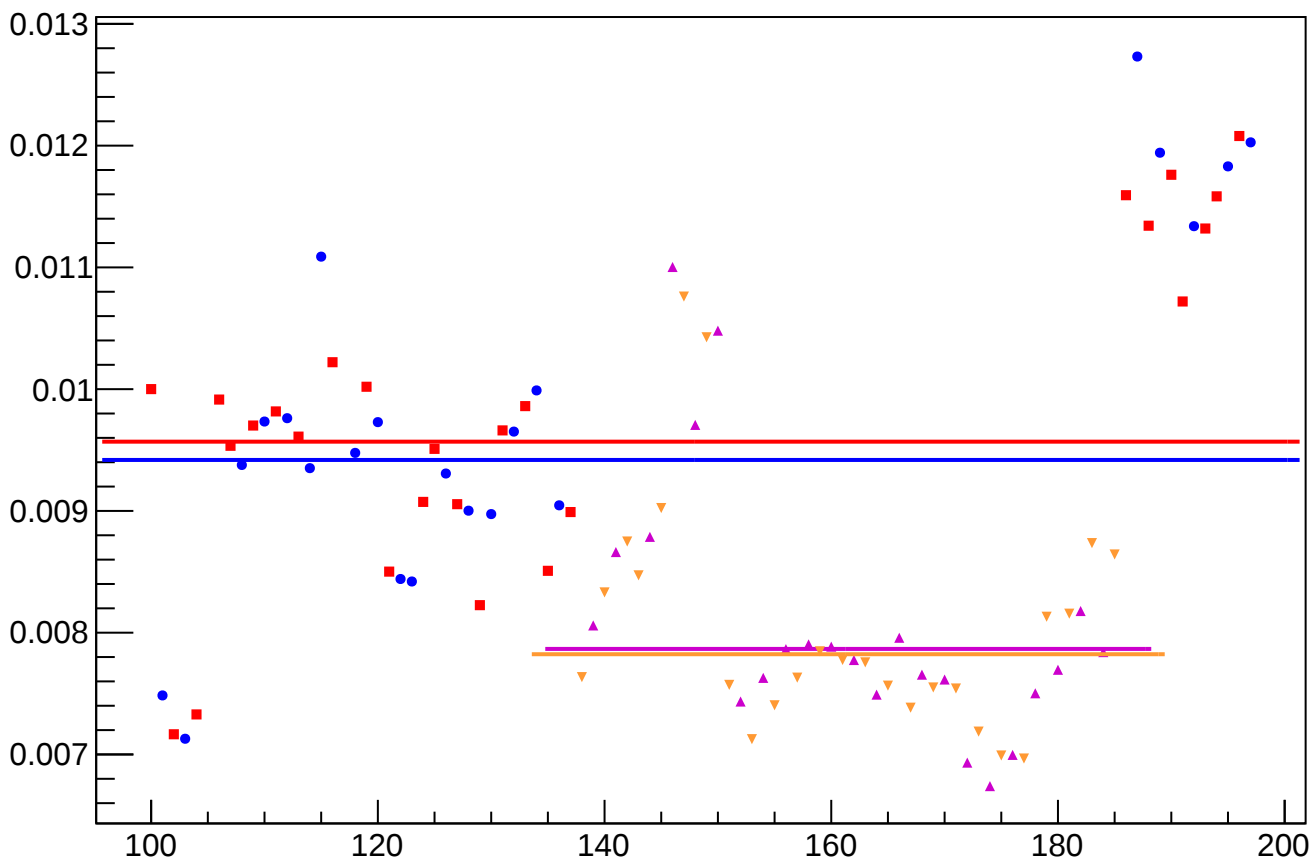
Right: -0.978 $\pm$ 0.000 χ^2 /NDF: 26281602904.5/47

In: -1.124 $\pm$ 0.000 χ^2 /NDF: 18634877394.4/44

Out: -1.087 $\pm$ 0.000 χ^2 /NDF: 26704859258.6/50

All: -1.105 $\pm$ 0.000 χ^2 /NDF: 45608147025.0/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 458700.7/21

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 505754.4/25

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

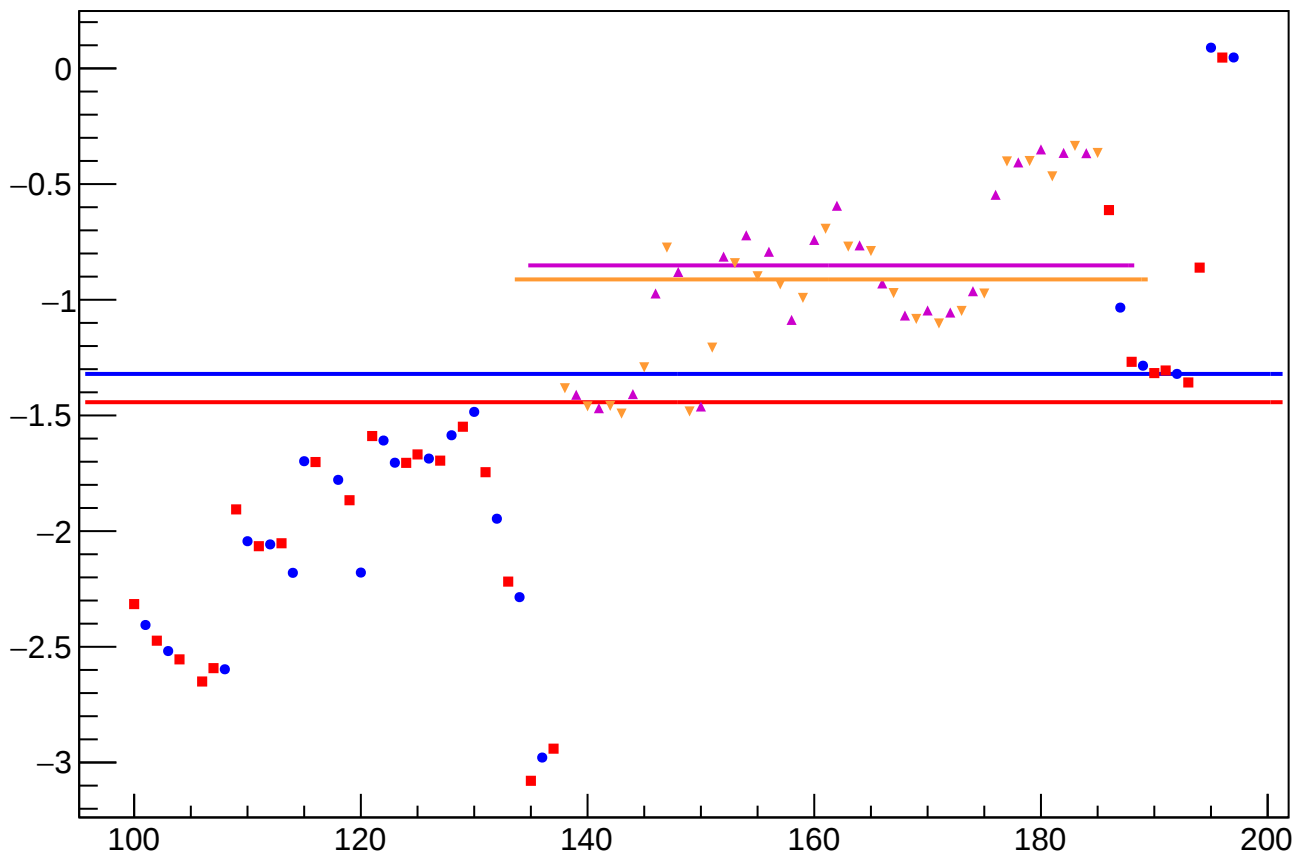
Right: 0.009+/-0.000 χ^2/NDF : 966919.3/47

In: 0.008+/-0.000 χ^2/NDF :1196240.2/44

Out: 0.008+/-0.000 χ^2/NDF :1339896.2/50

All: 0.008+/-0.000 χ^2/NDF : 2536391.4/95

yield_bpm0i05X_mean vs Slug, Sign Corrected



Left: -0.882 +/- 0.000 χ^2/NDF : 96285672564.6/47

Right: -1.389 +/- 0.000 χ^2/NDF : 385436282584.9/47

In: -0.998 +/- 0.000 χ^2/NDF : 288016944931.2/44

Out: -1.103 +/- 0.000 χ^2/NDF : 266277863666.8/50

All: -1.053 +/- 0.000 χ^2/NDF : 557994201237.2

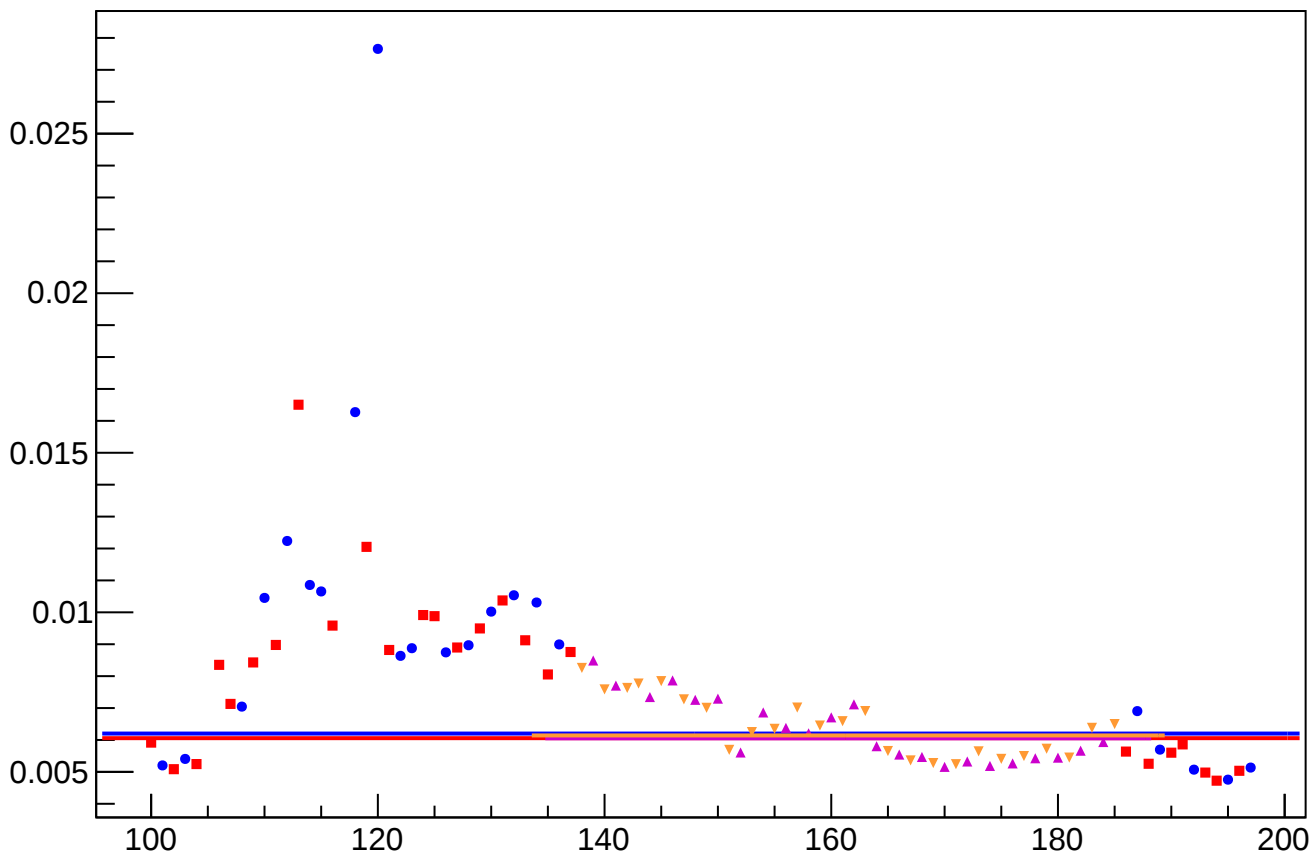
Right In: -1.321 +/- 0.000 χ^2/NDF : 211743562483.4/21

Left Out: -0.912 +/- 0.000 χ^2/NDF : 49039425818.1/24

Right Out: -1.443 +/- 0.000 χ^2/NDF : 172044841478.6/25

Left In: -0.851 +/- 0.000 χ^2/NDF : 46438446008.2/22

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1829279.3/21

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1637972.4/25

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

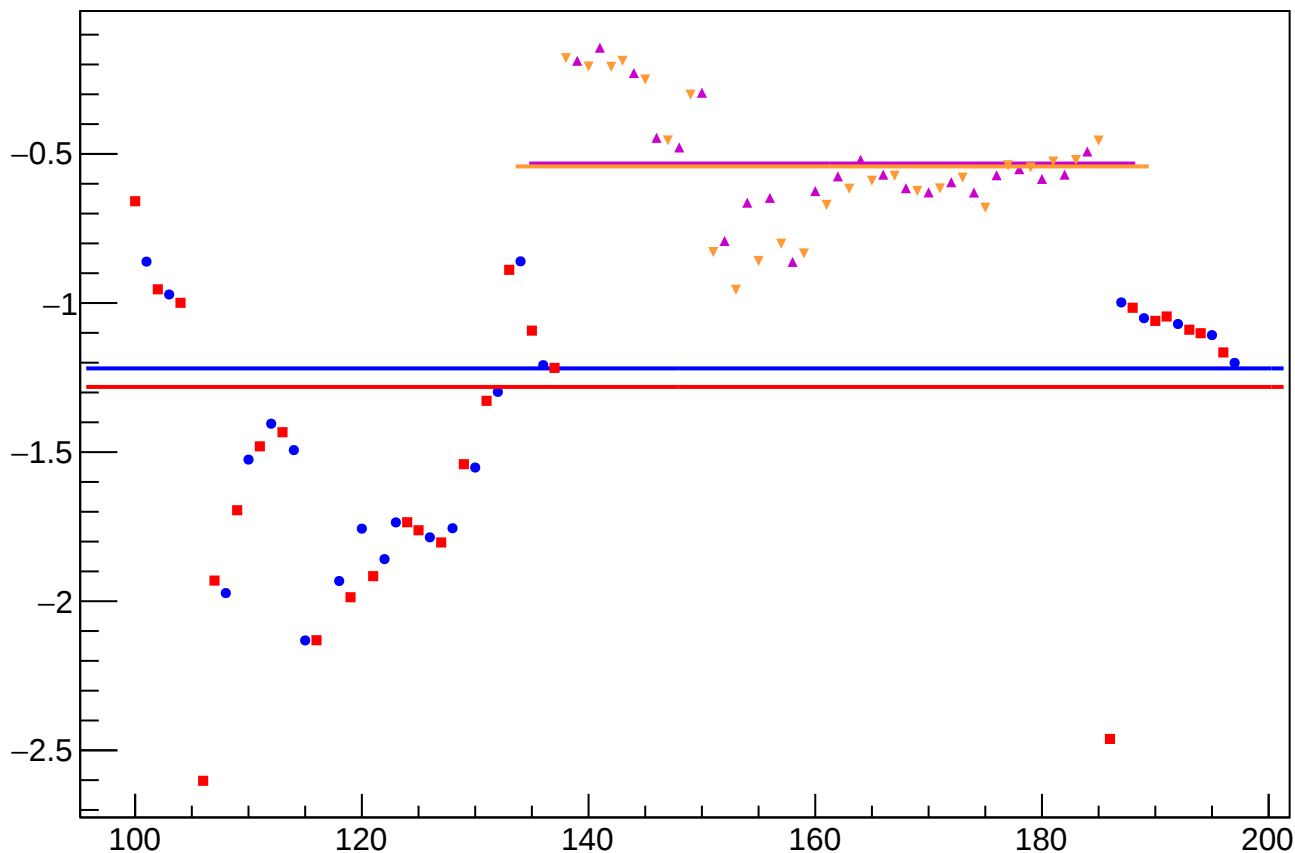
Right: 0.006+/-0.000 χ^2/NDF : 3471840.3/47

In: 0.006+/-0.000 χ^2/NDF : 2532814.6/44

Out: 0.006+/-0.000 χ^2/NDF : 2278084.5/50

All: 0.006+/-0.000 χ^2/NDF : 4811002.9/95

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.219+/-0.000 χ^2/NDF : 26161033181.6/21

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.281+/-0.000 χ^2/NDF : 77558464119.0/25

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

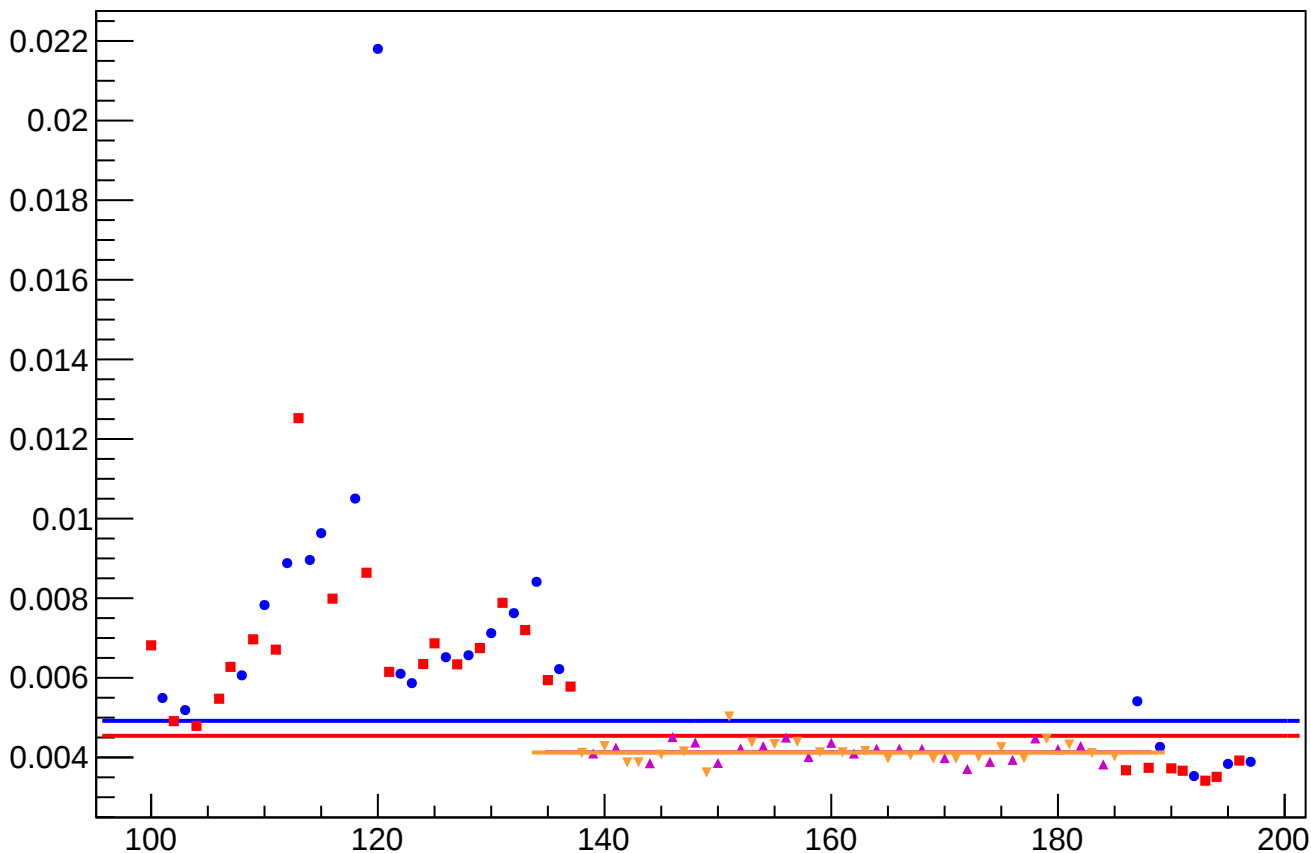
Right: -1.255+/-0.000 χ^2/NDF : 104424951694.6/47

In: -0.705+/-0.000 χ^2/NDF : 167965551071.6/44

Out: -0.768+/-0.000 χ^2/NDF : 290278103836.9/50

All: -0.738+/-0.000 χ^2/NDF : 460857809334.0

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1675324.9/21

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1737544.0/25

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

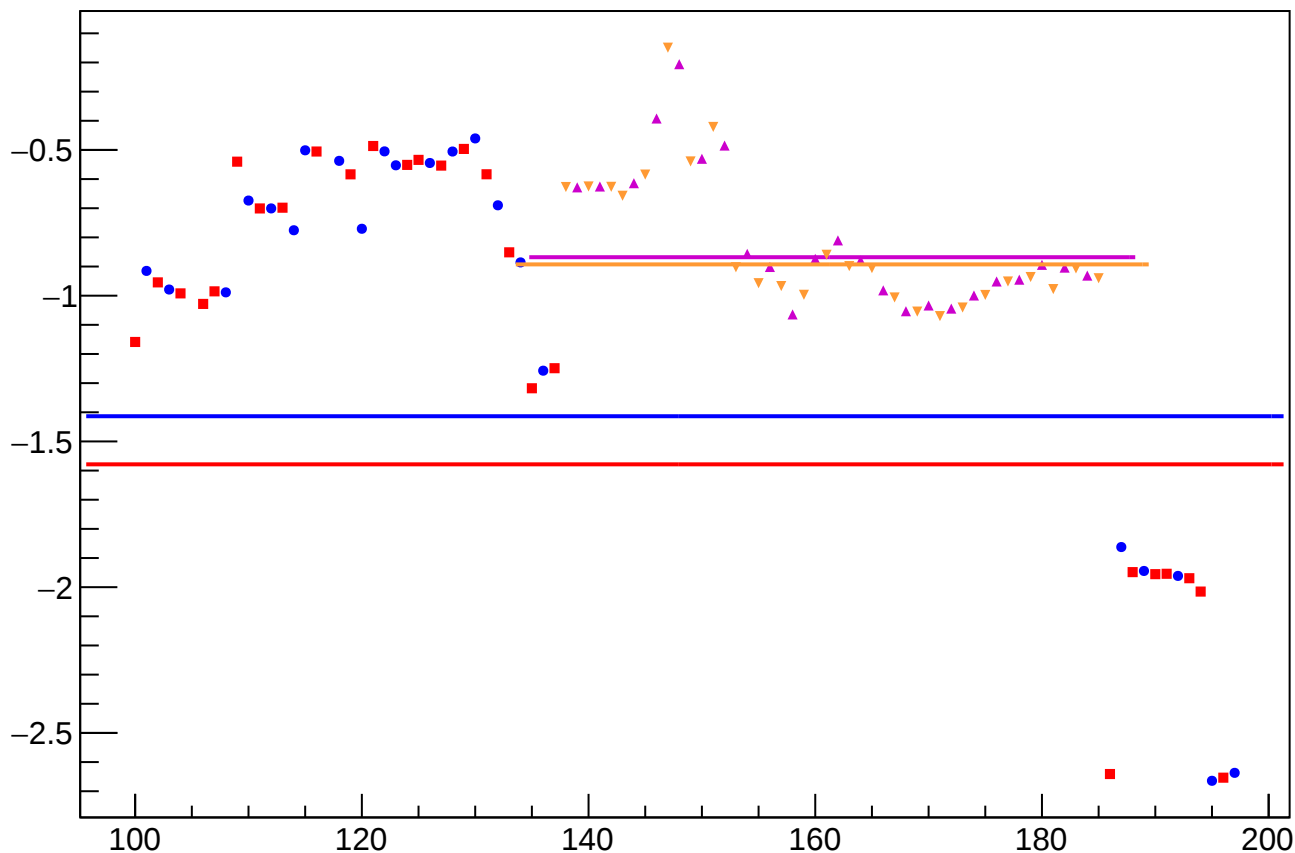
Right: 0.005+/-0.000 χ^2/NDF : 3464368.1/47

In: 0.004+/-0.000 χ^2/NDF :2061685.2/44

Out: 0.004+/-0.000 χ^2/NDF :1956830.4/50

All: 0.004+/-0.000 χ^2/NDF : 4026185.5/95

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.414 $\pm$ 0.000 χ^2 /NDF: 167850601871.6/21

Left Out: -0.893 $\pm$ 0.000 χ^2 /NDF: 40787012603.8/24

Right Out: -1.579 $\pm$ 0.000 χ^2 /NDF: 246968573872.9/25

Left In: -0.868 $\pm$ 0.000 χ^2 /NDF: 43853190177.2/22

Left: -0.880 $\pm$ 0.000 χ^2 /NDF: 84980637247.0/47

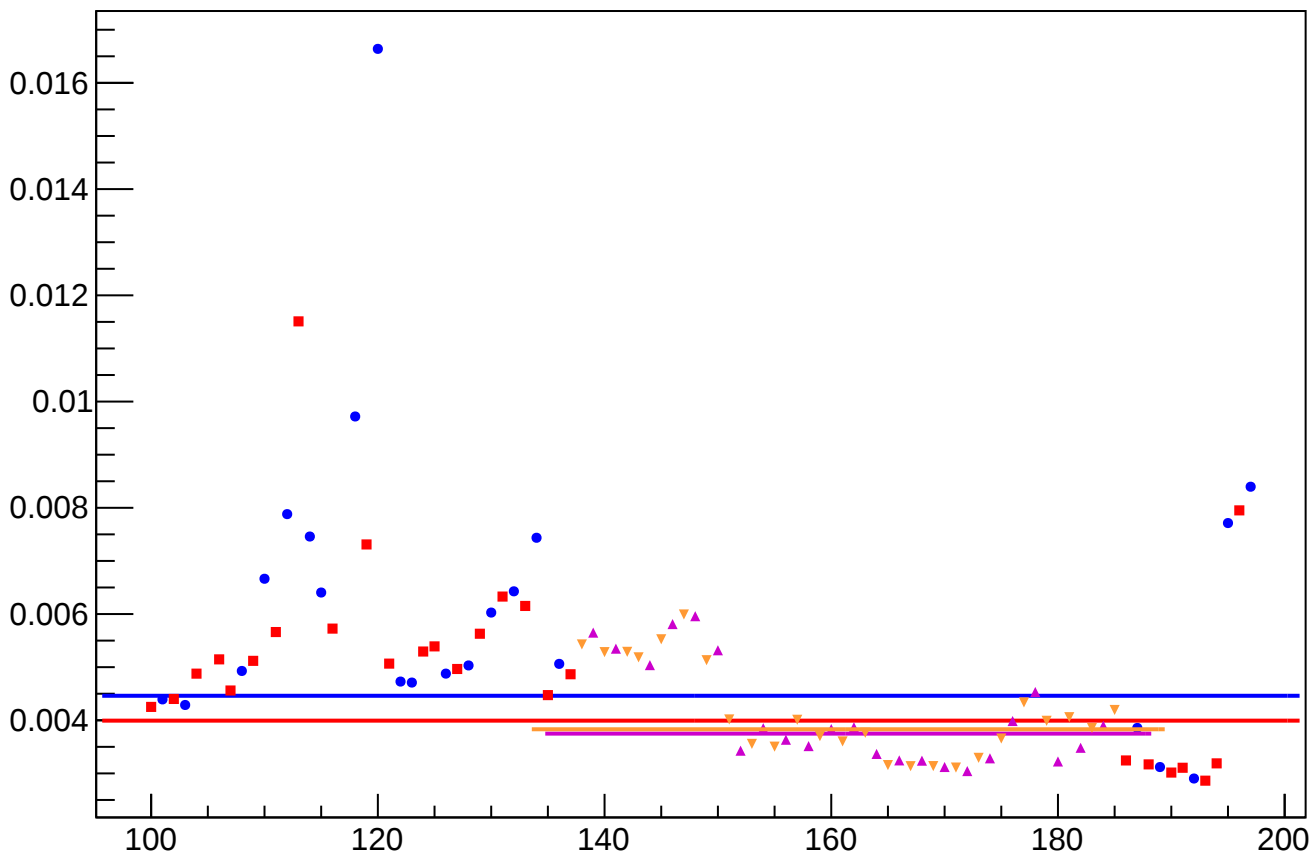
Right: -1.513 $\pm$ 0.000 χ^2 /NDF: 421068939353.1/47

In: -1.007 $\pm$ 0.000 χ^2 /NDF: 296406421709.8/44

Out: -1.124 $\pm$ 0.000 χ^2 /NDF: 466758865906.7/50

All: -1.070 $\pm$ 0.000 χ^2 /NDF: 774138342991.6

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2182166.3/21

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1941979.9/25

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

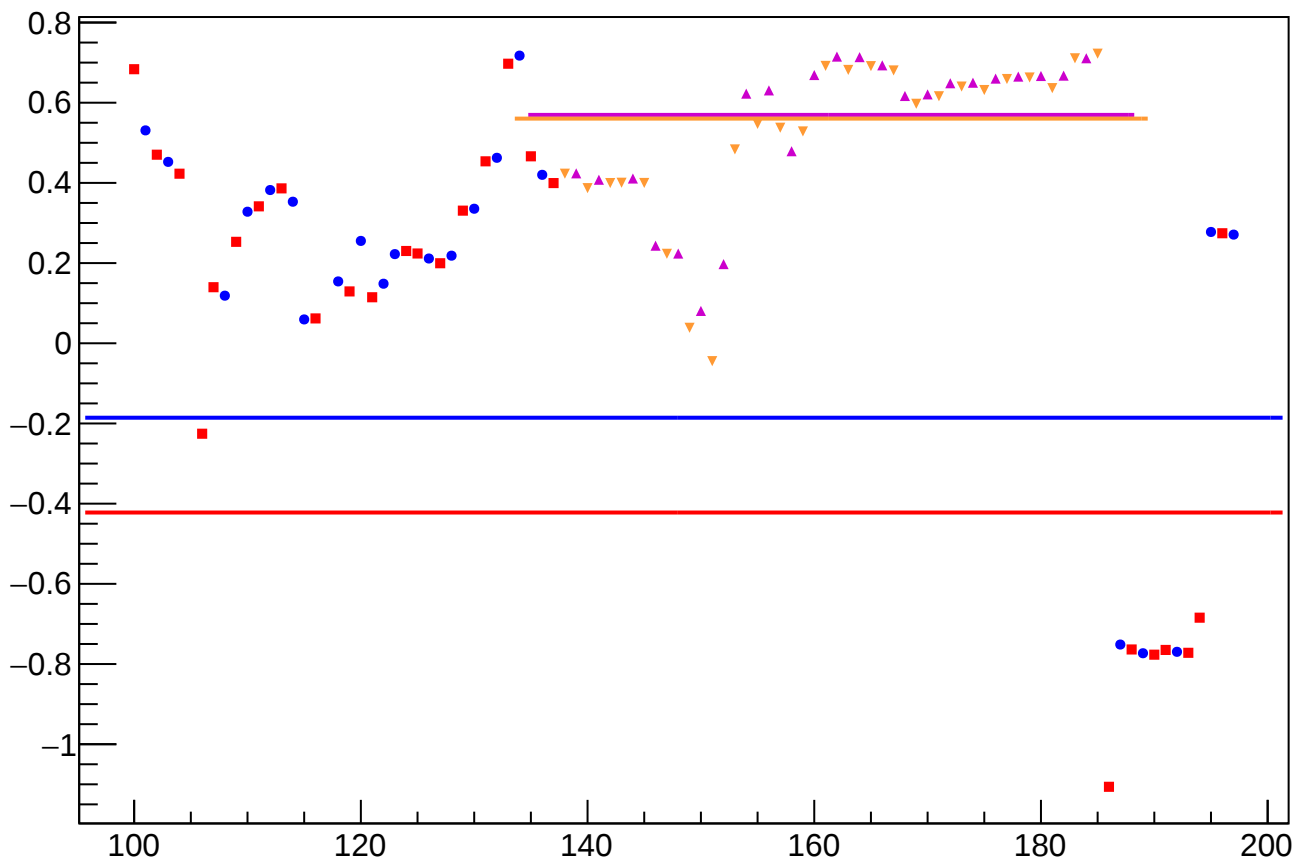
Right: 0.004+/-0.000 χ^2/NDF : 4224737.9/47

In: 0.004+/-0.000 χ^2/NDF :3759520.7/44

Out: 0.004+/-0.000 χ^2/NDF :3141853.4/50

All: 0.004+/-0.000 χ^2/NDF : 6904592.2/95

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.186 ± 0.000 $\chi^2/\text{NDF}: 250807183097.3/21$

Left Out: 0.560 ± 0.000 $\chi^2/\text{NDF}: 45205806387.2/24$

Right Out: -0.422 ± 0.000 $\chi^2/\text{NDF}: 377906854762.5/25$

Left In: 0.570 ± 0.000 $\chi^2/\text{NDF}: 42104067973.0/22$

Left: 0.565 ± 0.000 $\chi^2/\text{NDF}: 87378176036.1/47$

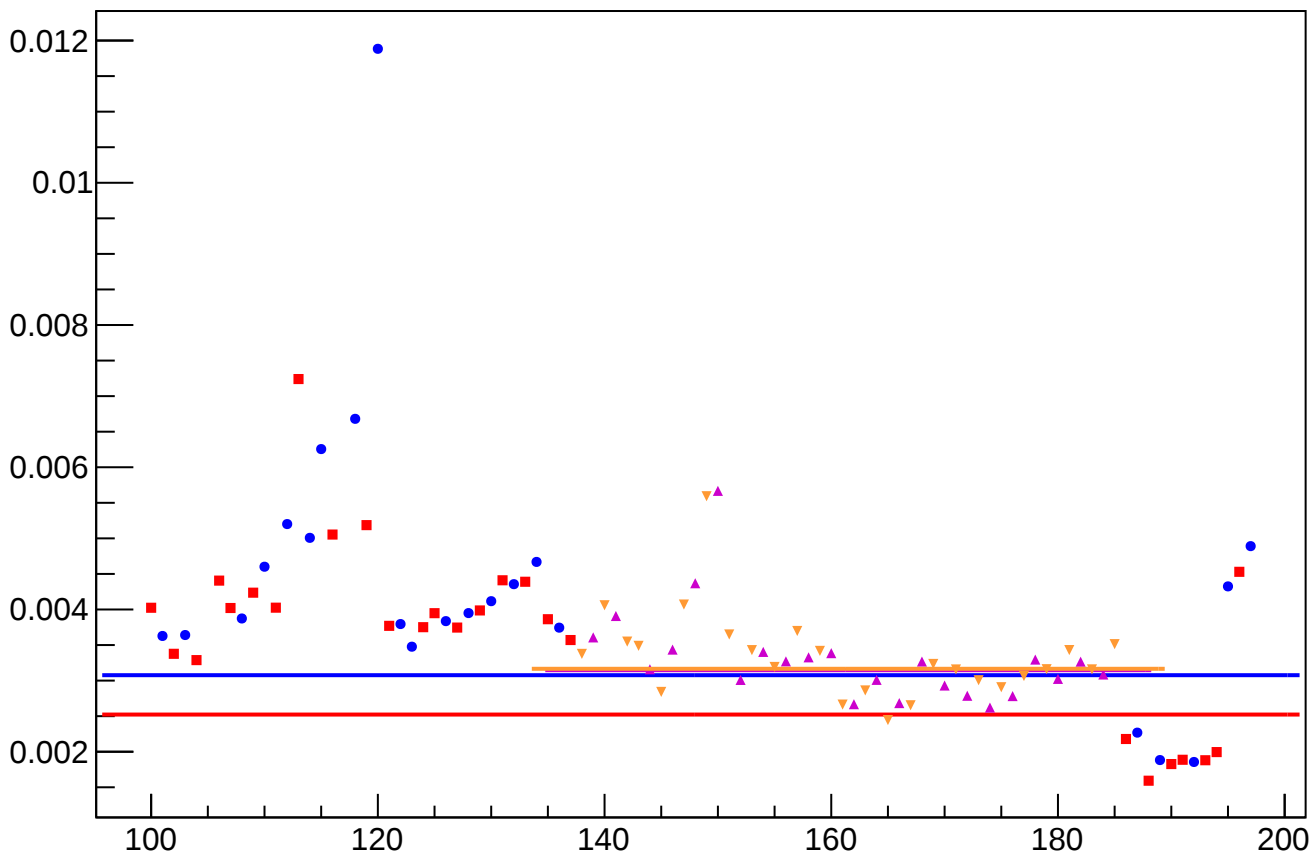
Right: -0.334 ± 0.000 $\chi^2/\text{NDF}: 656576263088.0/47$

In: 0.314 ± 0.000 $\chi^2/\text{NDF}: 593237657759.6/44$

Out: 0.116 ± 0.000 $\chi^2/\text{NDF}: 1129150641269.3/50$

All: 0.204 ± 0.000 $\chi^2/\text{NDF}: 1773724679791.0/100$

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2510919.1/21

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 3095924.7/25

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

Right: 0.003+/-0.000 χ^2/NDF : 5912222.9/47

In: 0.003+/-0.000 χ^2/NDF : 3232508.4/44

Out: 0.003+/-0.000 χ^2/NDF : 4446520.4/50

All: 0.003+/-0.000 χ^2/NDF : 7839250.8/95

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.023+/-0.000 χ^2/NDF : 5659327024.7/21

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: -0.016+/-0.000 χ^2/NDF : 6782255969.5/25

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

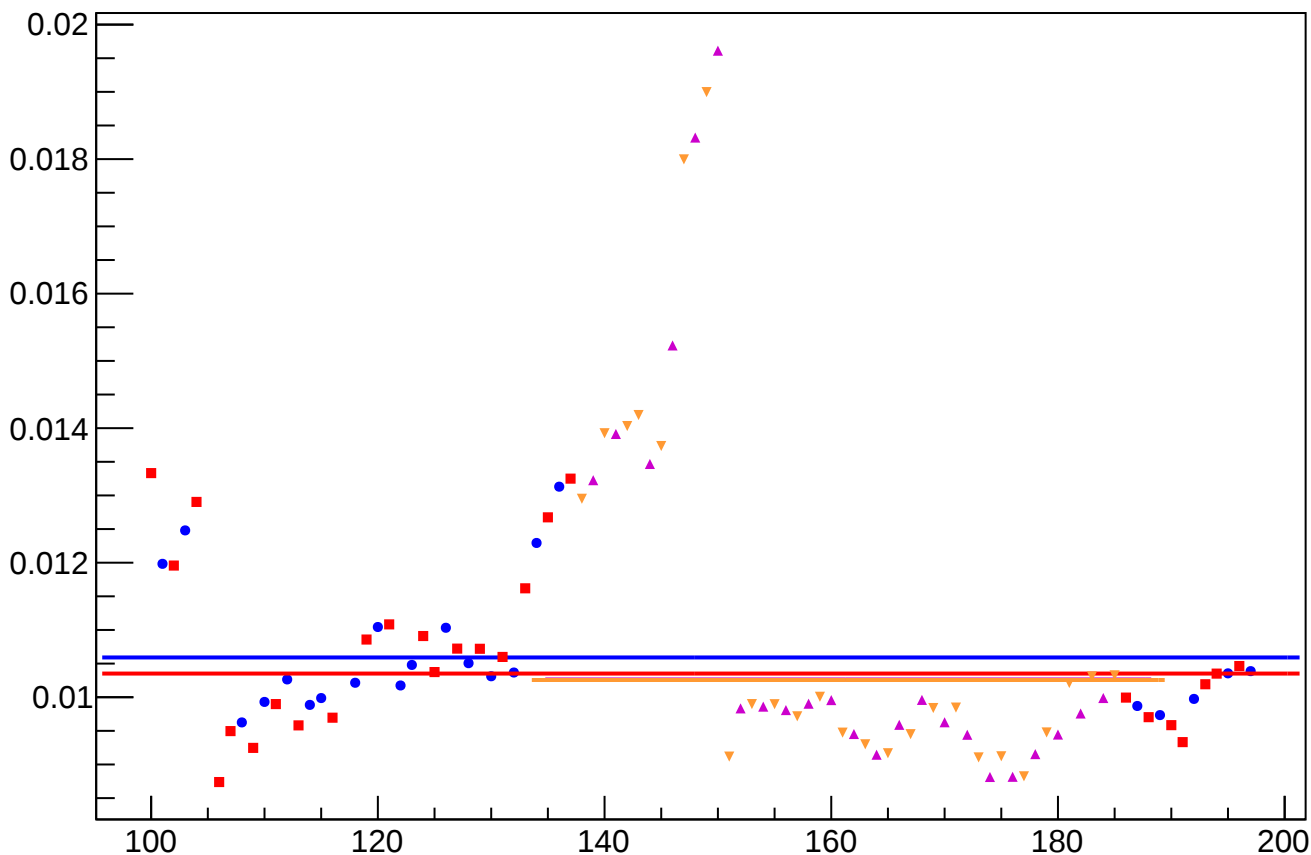
Right: -0.019+/-0.000 χ^2/NDF : 124444446566.1/47

In: -1.420+/-0.000 χ^2/NDF : 269225359529.1/44

Out: -1.351+/-0.000 χ^2/NDF : 312848337421.8/50

All: -1.383+/-0.000 χ^2/NDF : 582692304866.4

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 148701.2/21

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 204693.1/25

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

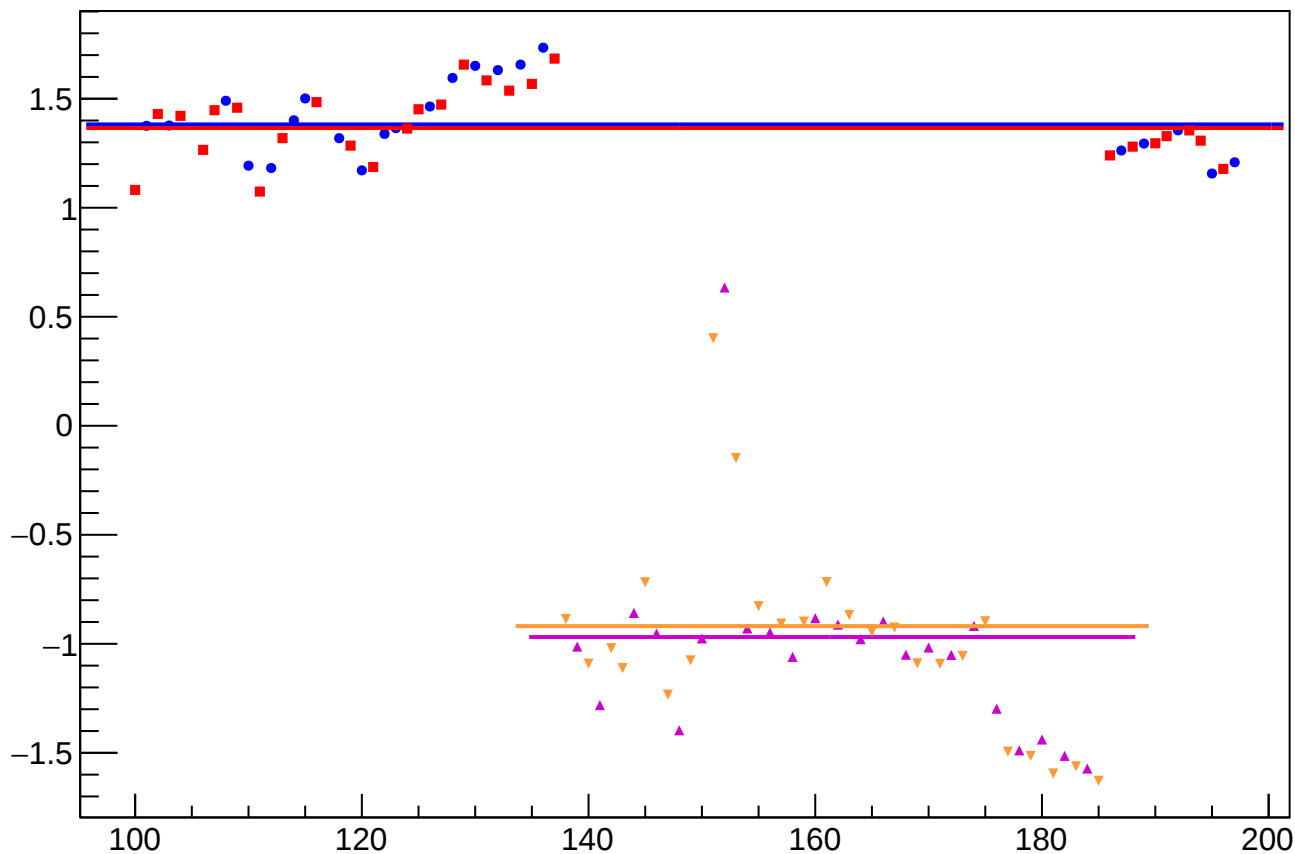
Right: 0.010+/-0.000 χ^2/NDF : 358810.9/47

In: 0.010+/-0.000 χ^2/NDF :1500860.1/44

Out: 0.010+/-0.000 χ^2/NDF :1476489.1/50

All: 0.010+/-0.000 χ^2/NDF : 2979308.5/95

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.382+/-0.000 χ^2/NDF : 5091101717.2/21

Left Out: -0.919+/-0.000 χ^2/NDF : 55622252895.8/24

Right Out: 1.365+/-0.000 χ^2/NDF : 3819804039.1/25

Left In: -0.969+/-0.000 χ^2/NDF : 54895002535.8/22

Left: -0.943+/-0.000 χ^2/NDF : 110825900215.1/47

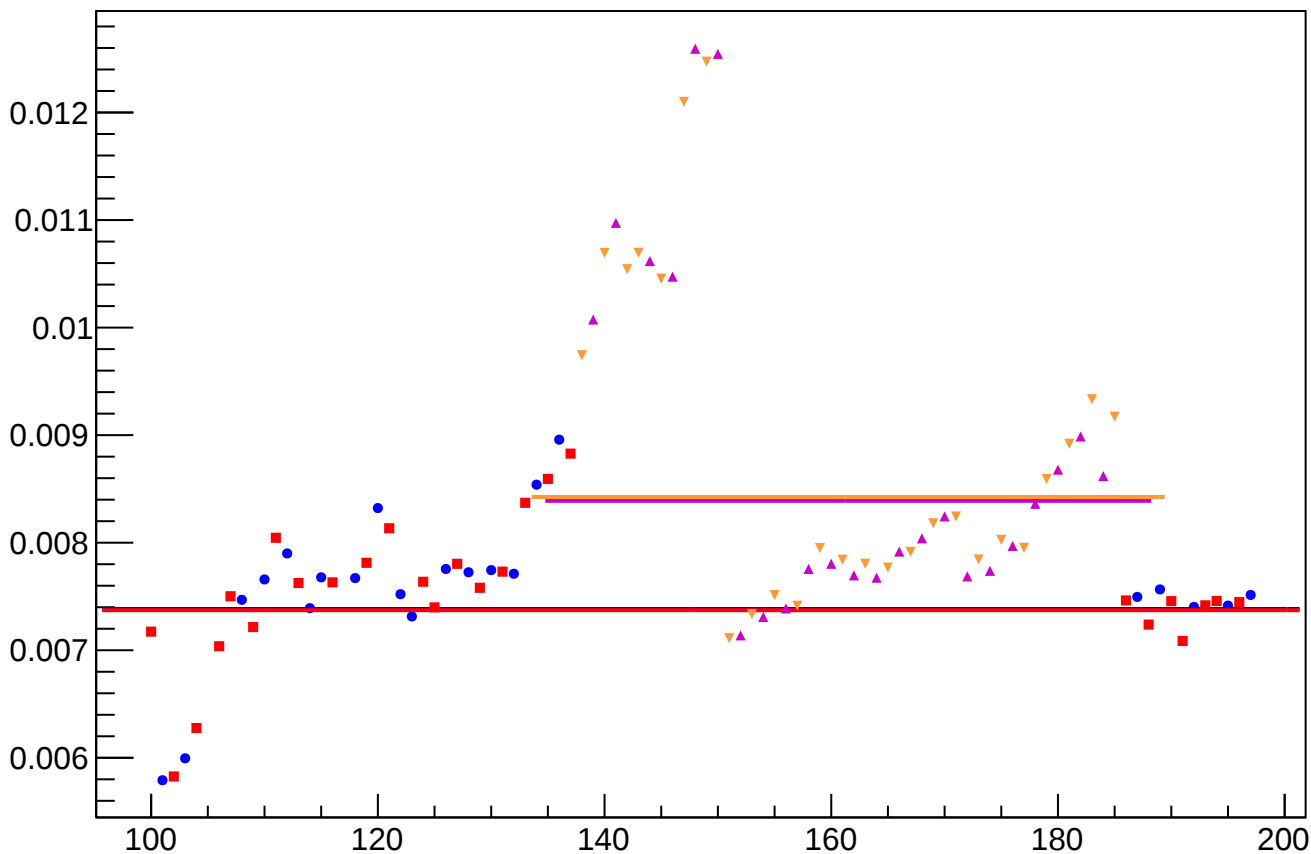
Right: 1.373+/-0.000 χ^2/NDF : 8937330967.3/47

In: 0.028+/-0.000 χ^2/NDF : 621224026493.6/44

Out: 0.108+/-0.000 χ^2/NDF : 651088762149.7/50

All: 0.070+/-0.000 χ^2/NDF : 1273724135307.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 230052.1/21

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 174503.7/25

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

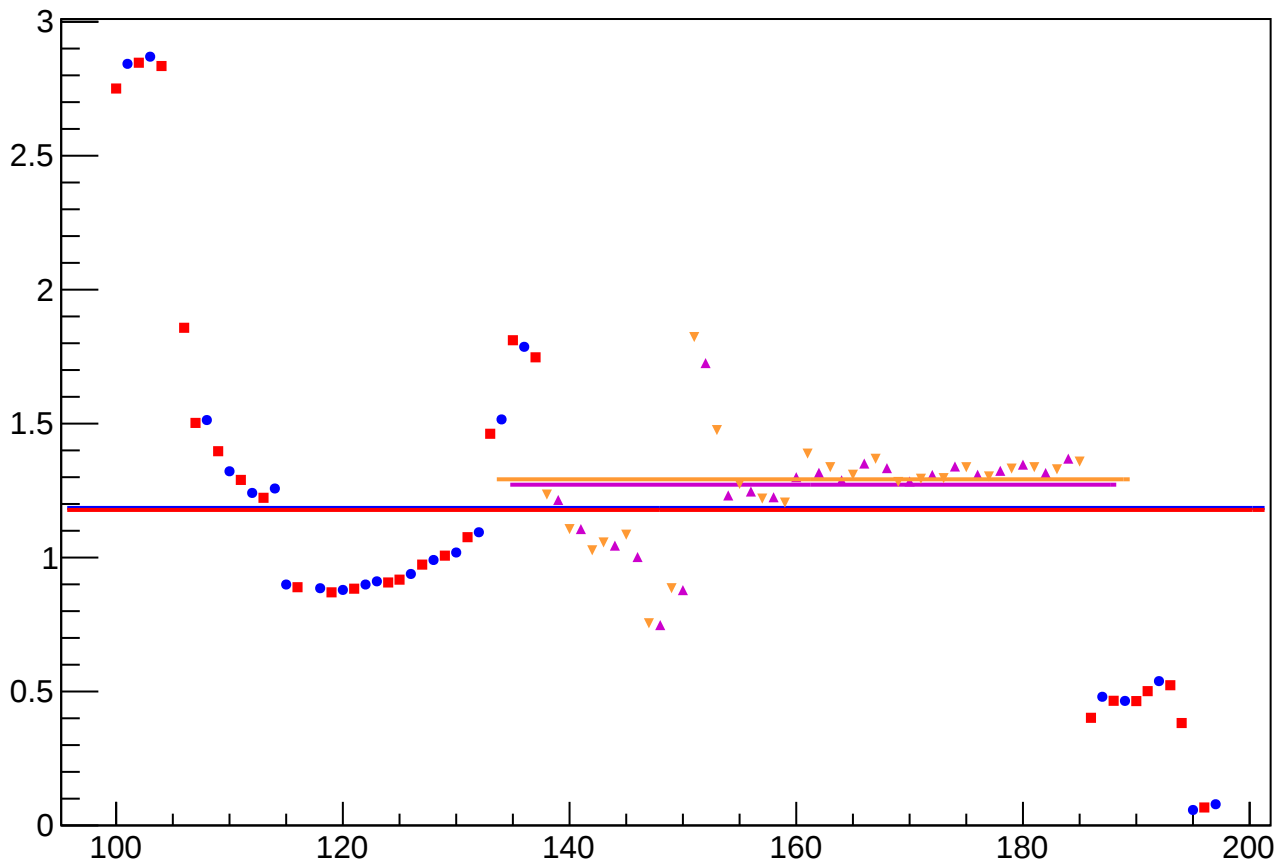
Right: 0.007+/-0.000 χ^2/NDF : 404579.3/47

In: 0.008+/-0.000 χ^2/NDF : 1275446.7/44

Out: 0.008+/-0.000 χ^2/NDF : 1218354.4/50

All: 0.008+/-0.000 χ^2/NDF : 2493854.0/95

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.185 $\pm$ 0.000 χ^2 /NDF: 84348067609.4/21

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.178 $\pm$ 0.000 χ^2 /NDF: 83627932162.5/25

Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2 /NDF: 16930321584.4/47

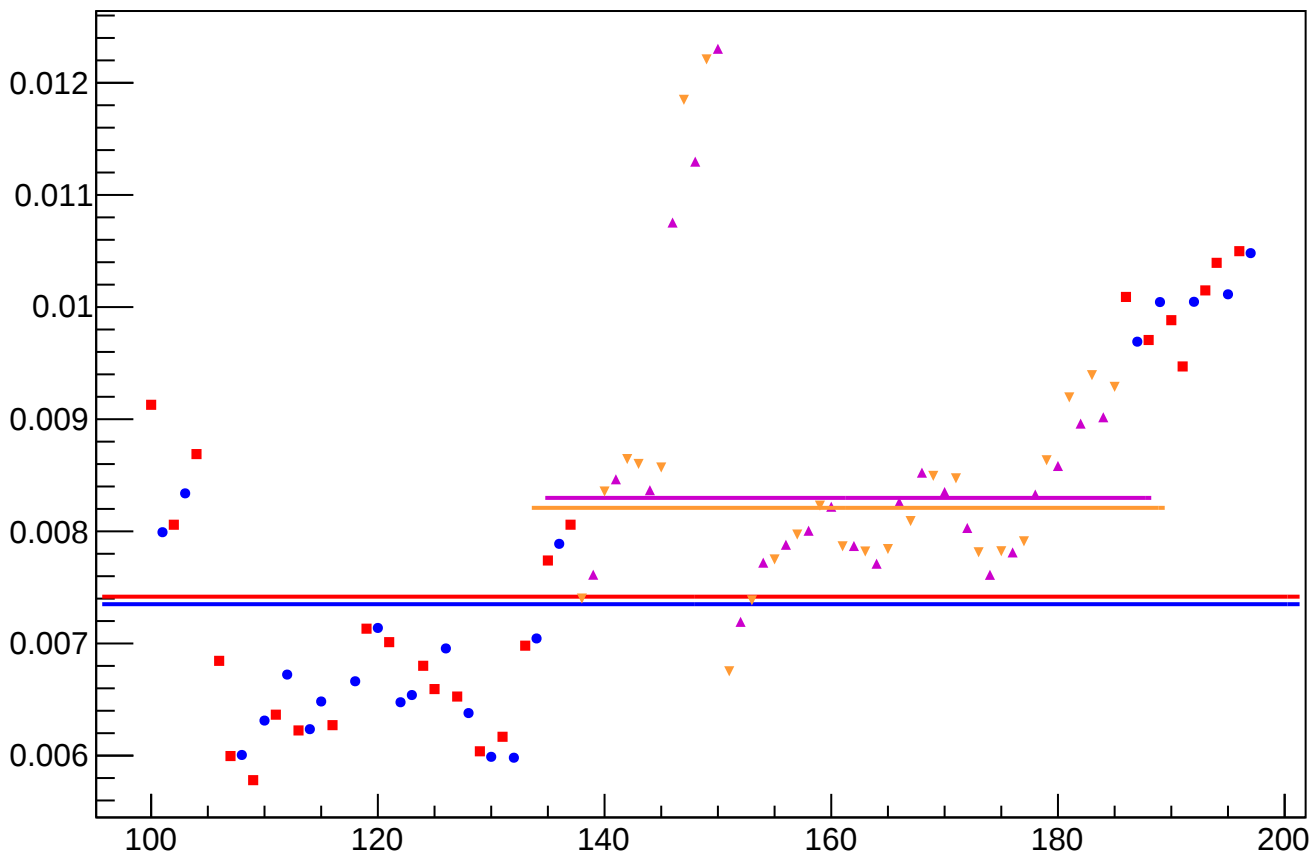
Right: 1.181 $\pm$ 0.000 χ^2 /NDF: 167981176226.6/47

In: 1.236 $\pm$ 0.000 χ^2 /NDF: 92685126360.5/44

Out: 1.243 $\pm$ 0.000 χ^2 /NDF: 94404265914.3/50

All: 1.240 $\pm$ 0.000 χ^2 /NDF: 187100987765.3

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 723757.6/21

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 944067.9/25

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

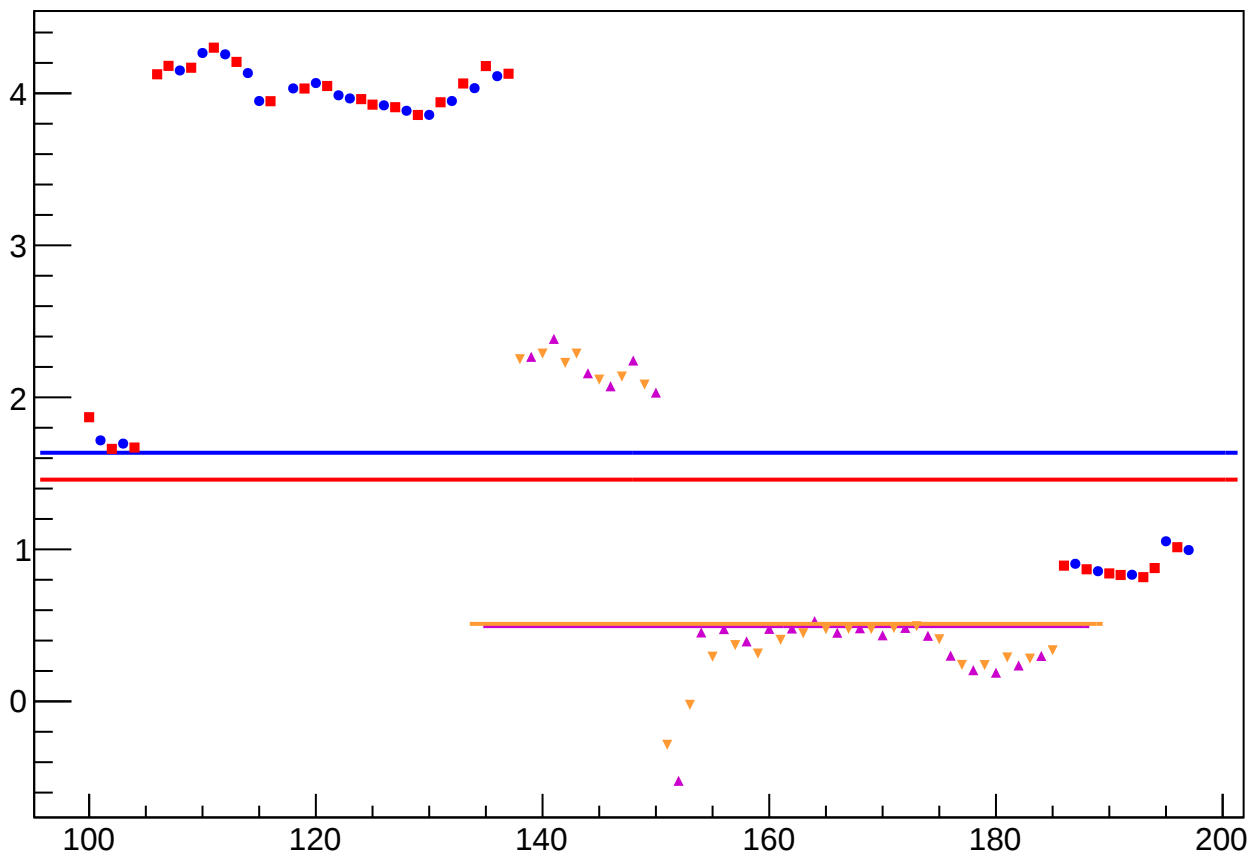
Right: 0.007+/-0.000 χ^2/NDF : 1668656.7/47

In: 0.008+/-0.000 χ^2/NDF : 1368029.8/44

Out: 0.008+/-0.000 χ^2/NDF : 1564122.6/50

All: 0.008+/-0.000 χ^2/NDF : 2932630.7/95

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.636 $\pm$ 0.000

χ^2 /NDF: 1317118803217.6/21

Left Out: 0.510 $\pm$ 0.000

χ^2 /NDF: 274818814912.4/24

Right Out: 1.459 $\pm$ 0.000

χ^2 /NDF: 1593597428286.3/25

Left In: 0.495 $\pm$ 0.000

χ^2 /NDF: 268863202792.4/22

Left: 0.503 $\pm$ 0.000

χ^2 /NDF: 543767842878.3/47

Right: 1.534 $\pm$ 0.000

χ^2 /NDF: 2925398166311.5/47

In: 1.087 $\pm$ 0.000

χ^2 /NDF: 2097713678776.9/44

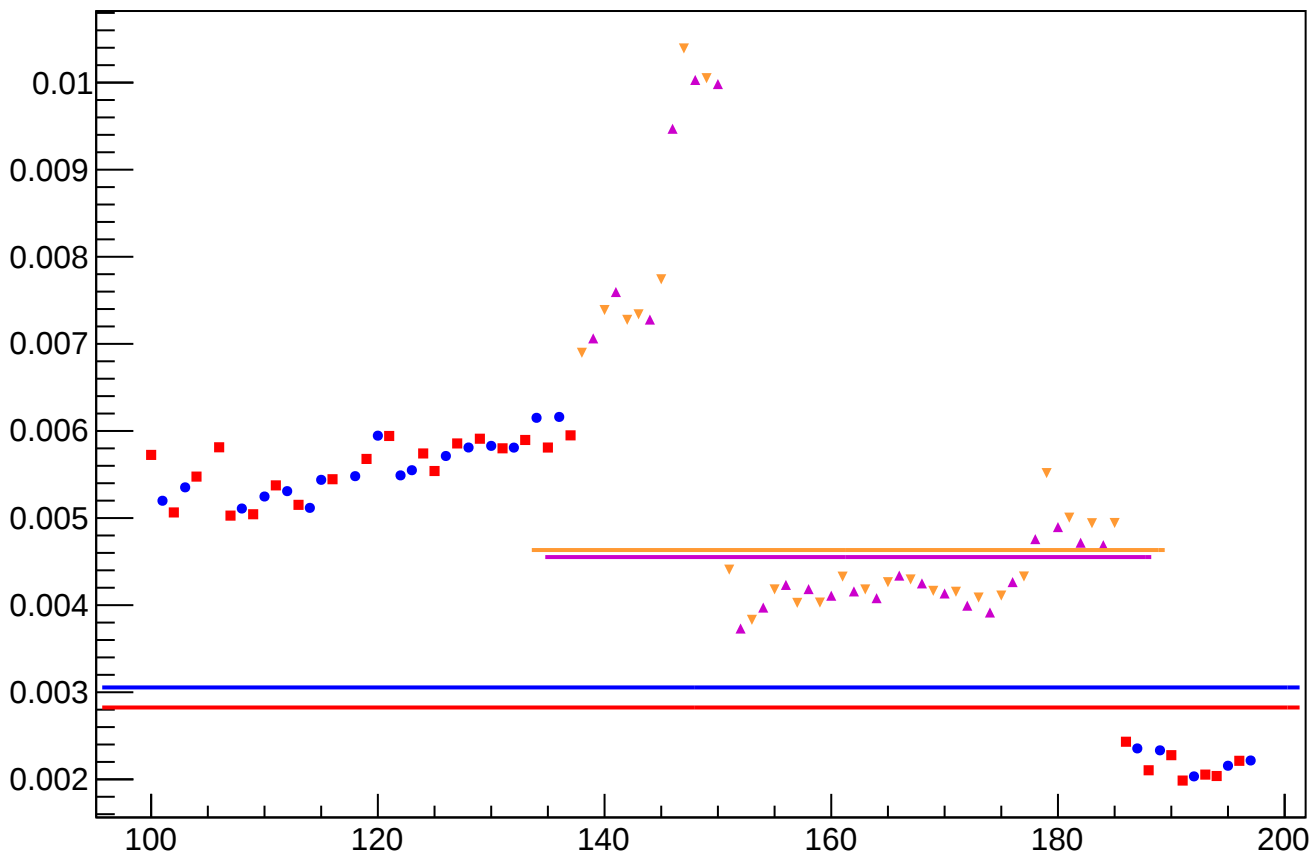
Out: 1.067 $\pm$ 0.000

χ^2 /NDF: 2278601599377.8/50

All: 1.076 $\pm$ 0.000

χ^2 /NDF: 4376671969671.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 3737807.9/21

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2114007.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 4224962.4/25

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2237666.9/22

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4356682.7/47

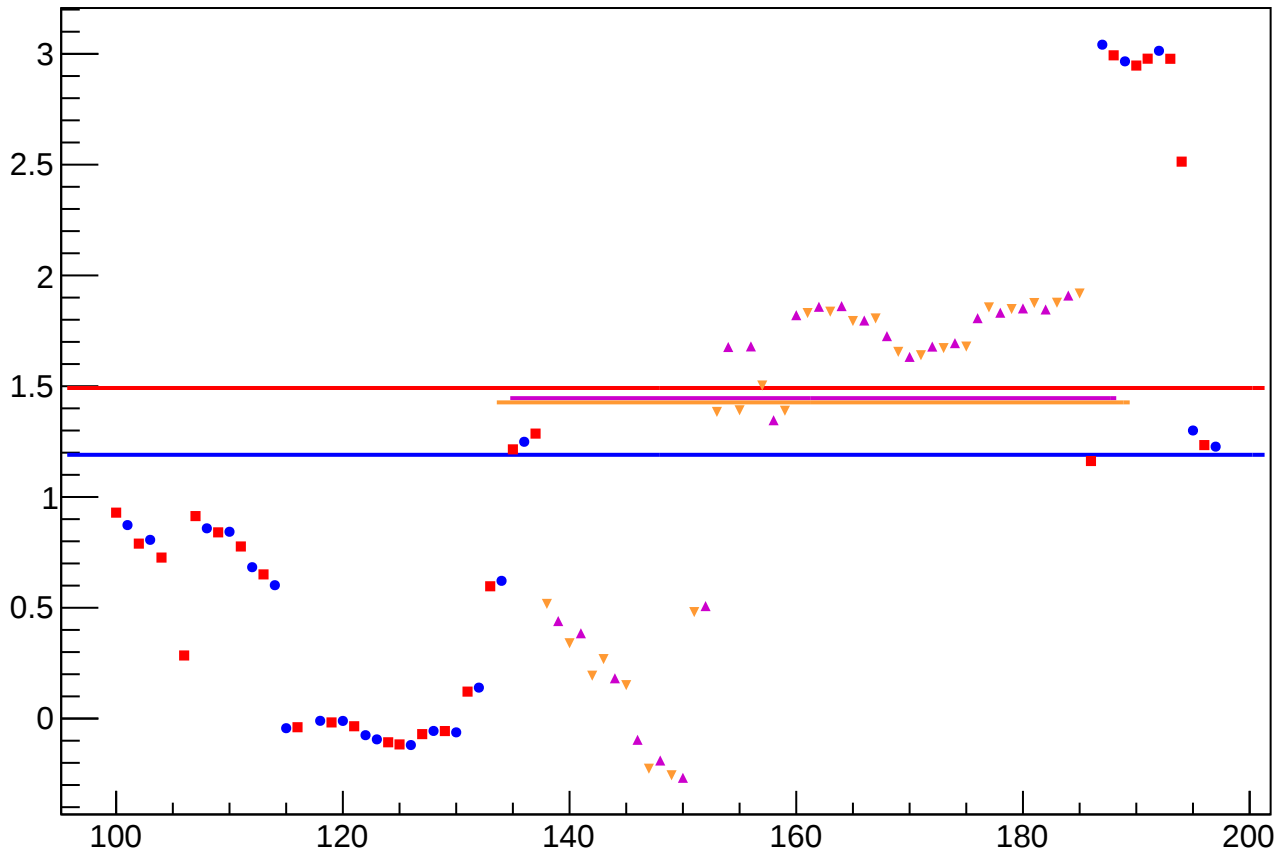
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 8012575.1/47

In: 0.004 $\pm$ 0.000 χ^2 /NDF:7738266.3/44

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:9317807.9/50

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 17126709.4/95

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.190 $\pm$ 0.000 χ^2 /NDF: 72596848191.6/21

Left Out: 1.427 $\pm$ 0.000 χ^2 /NDF: 49990787038.3/24

Right Out: 1.492 $\pm$ 0.000 χ^2 /NDF: 97676577005.3/25

Left In: 1.446 $\pm$ 0.000 χ^2 /NDF: 53752493130.3/22

Left: 1.436 $\pm$ 0.000 χ^2 /NDF: 103768857952.7/47

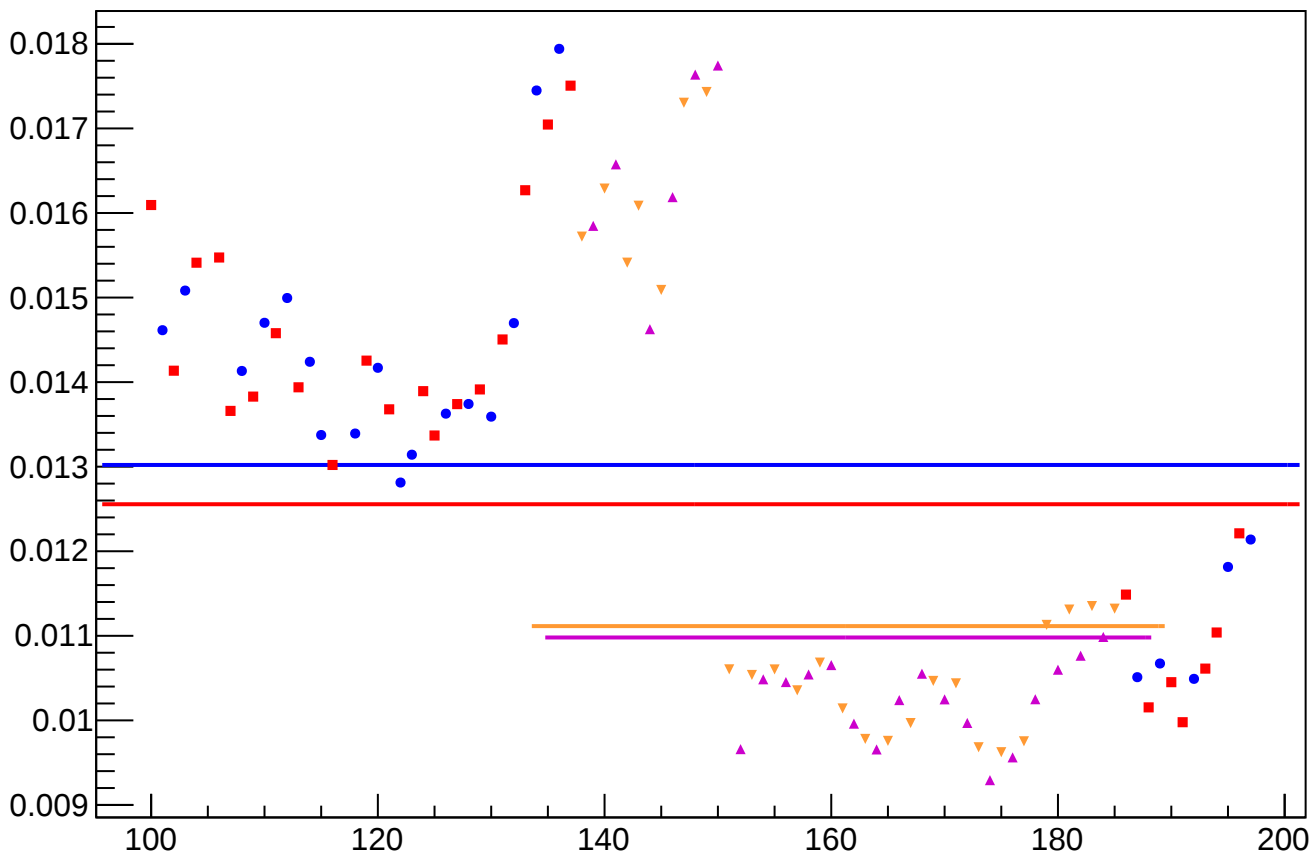
Right: 1.357 $\pm$ 0.000 χ^2 /NDF: 173081575291.8/47

In: 1.372 $\pm$ 0.000 χ^2 /NDF: 128948651951.4/44

Out: 1.448 $\pm$ 0.000 χ^2 /NDF: 147863342369.5/50

All: 1.412 $\pm$ 0.000 χ^2 /NDF: 277396095351.4

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 428923.0/21

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 548126.7/25

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

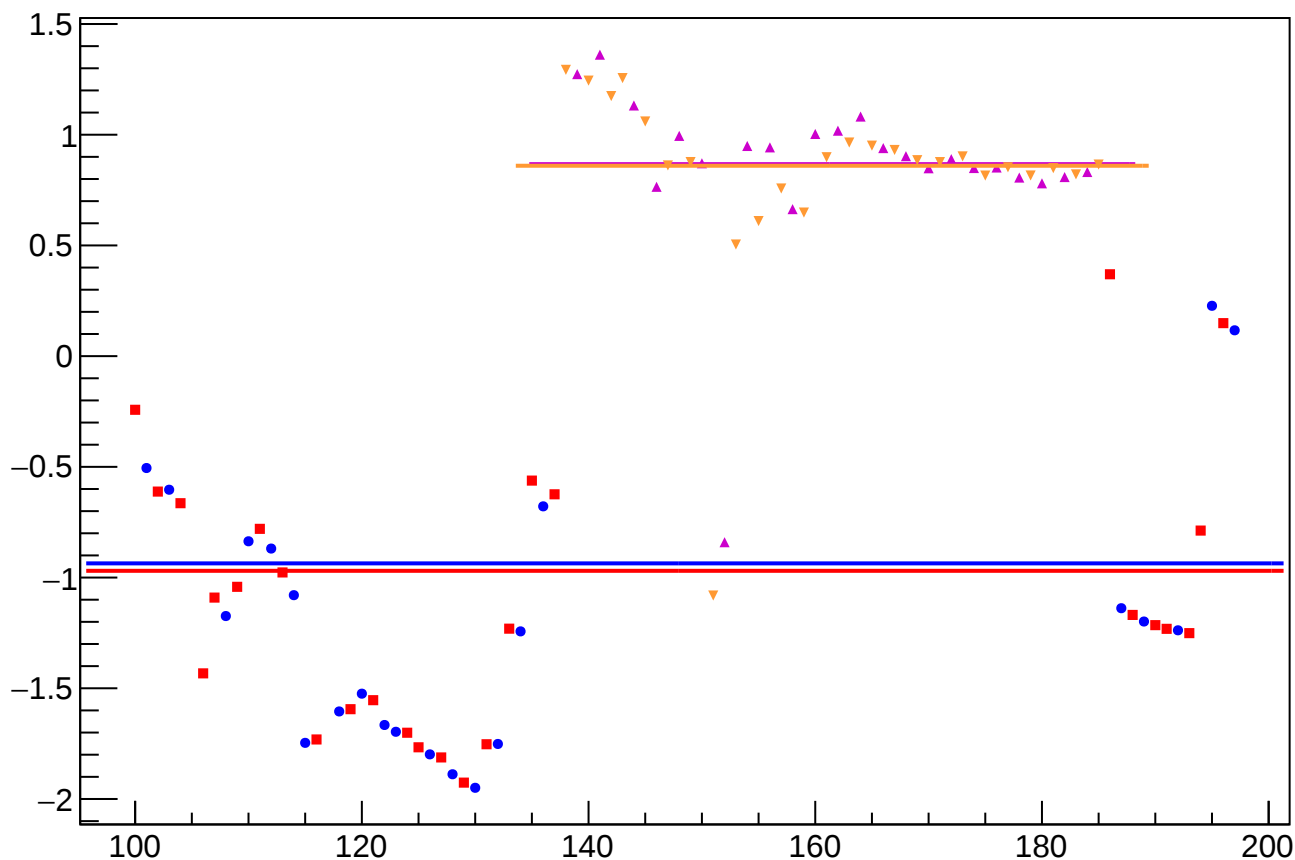
Right: 0.013+/-0.000 χ^2/NDF : 990370.7/47

In: 0.012+/-0.000 χ^2/NDF :2024635.8/44

Out: 0.012+/-0.000 χ^2/NDF :1968510.3/50

All: 0.012+/-0.000 χ^2/NDF : 3993189.6/95

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.936 ± 0.000 $\chi^2/\text{NDF}: 106179876271.1/21$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 126335891175.4/24$

Right Out: -0.970 ± 0.000 $\chi^2/\text{NDF}: 87561342835.3/25$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

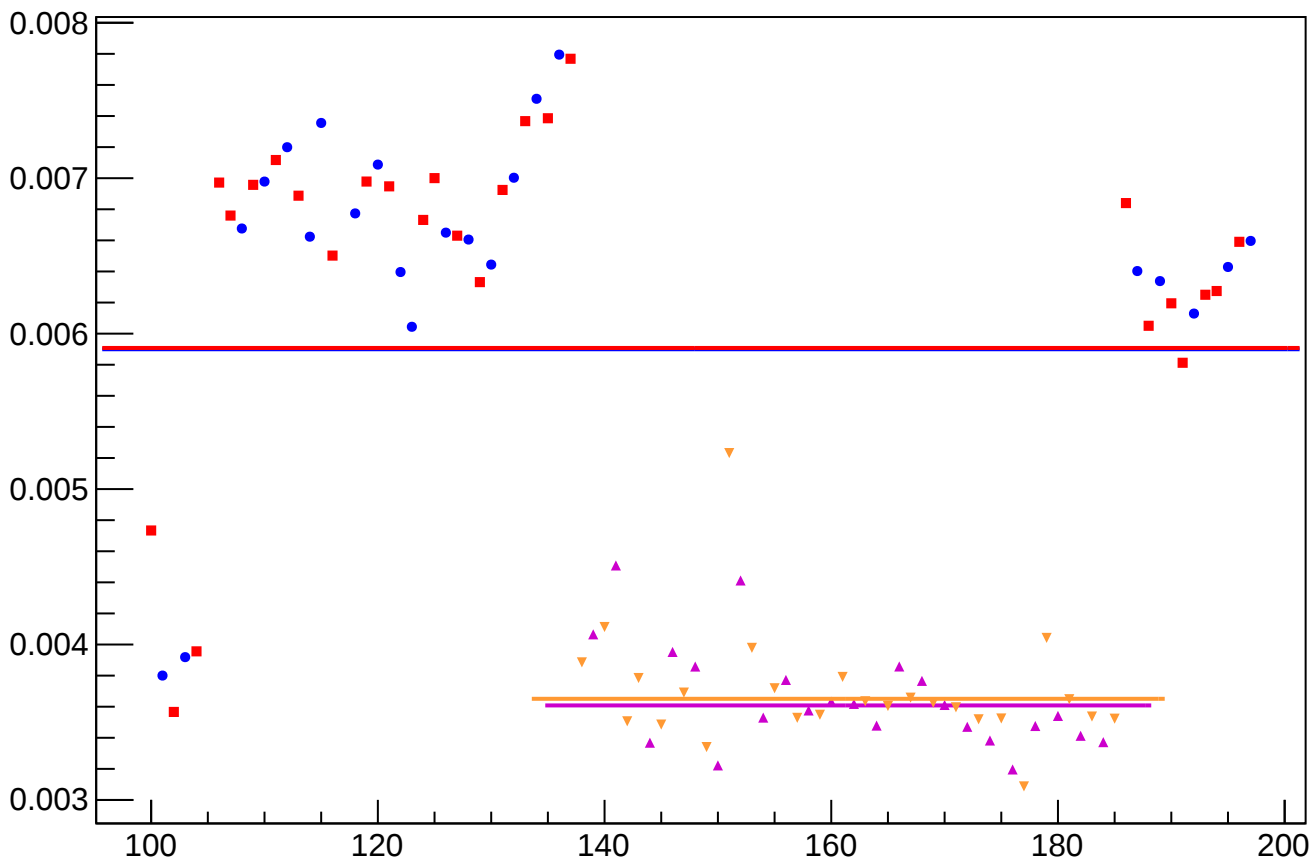
Right: -0.954 ± 0.000 $\chi^2/\text{NDF}: 193894441989.8/47$

In: 0.554 ± 0.000 $\chi^2/\text{NDF}: 935241158407.5/44$

Out: 0.514 ± 0.000 $\chi^2/\text{NDF}: 1006701218841.8/50$

All: 0.533 ± 0.000 $\chi^2/\text{NDF}: 1943125222313.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 884699.8/21

Left Out: 0.004+/-0.000 χ^2/NDF : 237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 977703.9/25

Left In: 0.004+/-0.000 χ^2/NDF : 227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

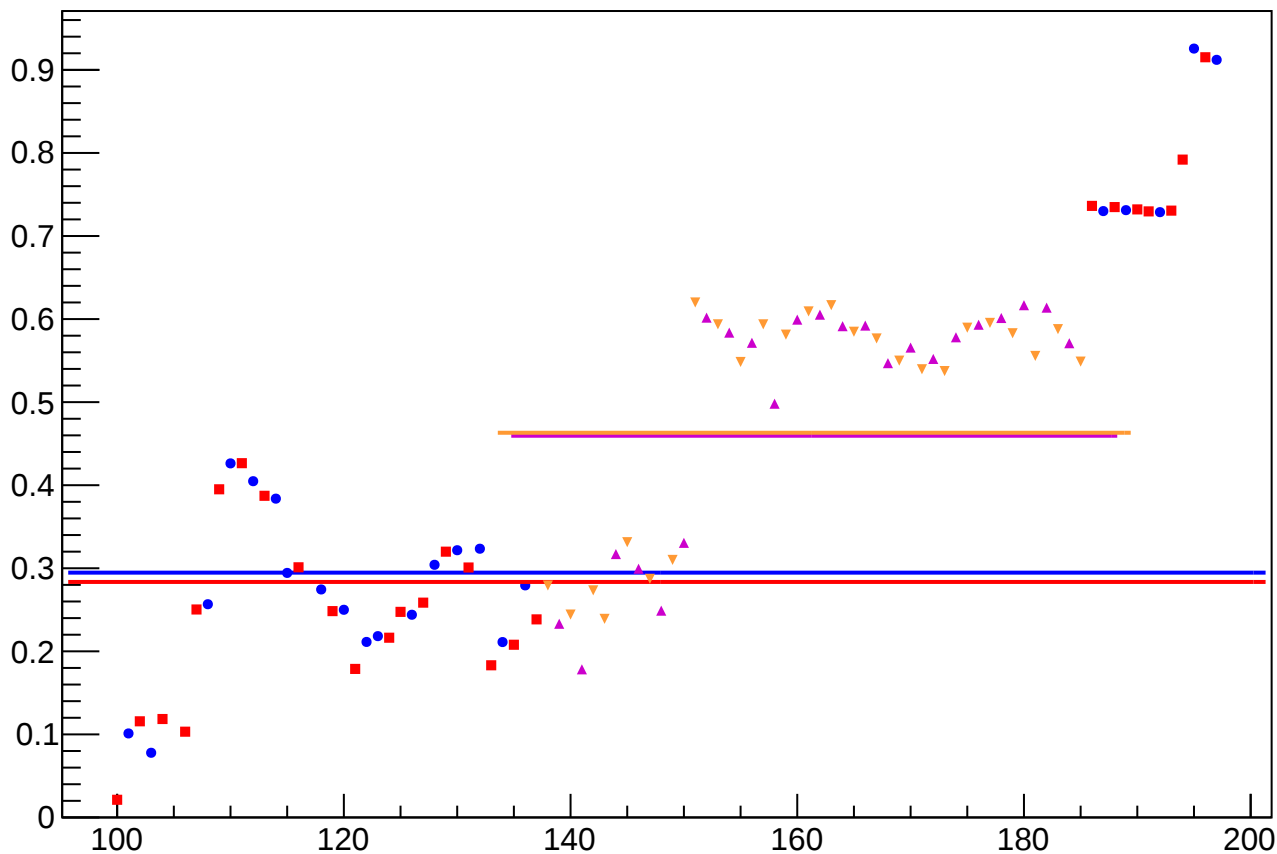
Right: 0.006+/-0.000 χ^2/NDF : 1862422.3/47

In: 0.004+/-0.000 χ^2/NDF : 3315641.7/44

Out: 0.004+/-0.000 χ^2/NDF : 3628697.9/50

All: 0.004+/-0.000 χ^2/NDF : 6951913.3/95

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.295+/-0.000

χ^2/NDF : 76890536080.9/21

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

Right: 0.289+/-0.000 χ^2/NDF : 171549427821.3/47

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

In: 0.396+/-0.000 χ^2/NDF : 225267490304.7/44

Right Out: 0.284+/-0.000

χ^2/NDF : 94484418041.2/25

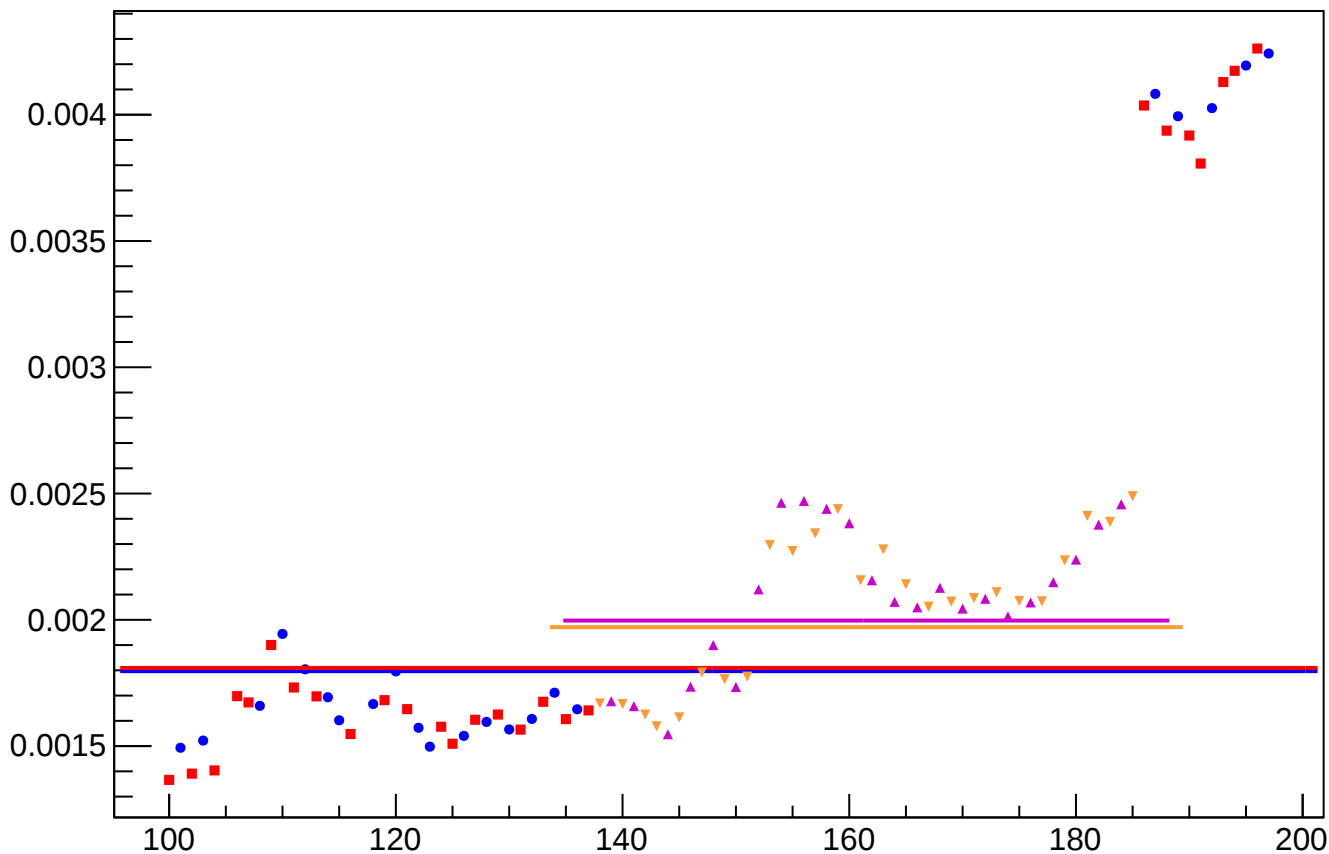
Out: 0.393+/-0.000 χ^2/NDF : 255200976619.5/50

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.394+/-0.000 χ^2/NDF : 480516859160.7

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2152985.1/21

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2938292.0/25

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

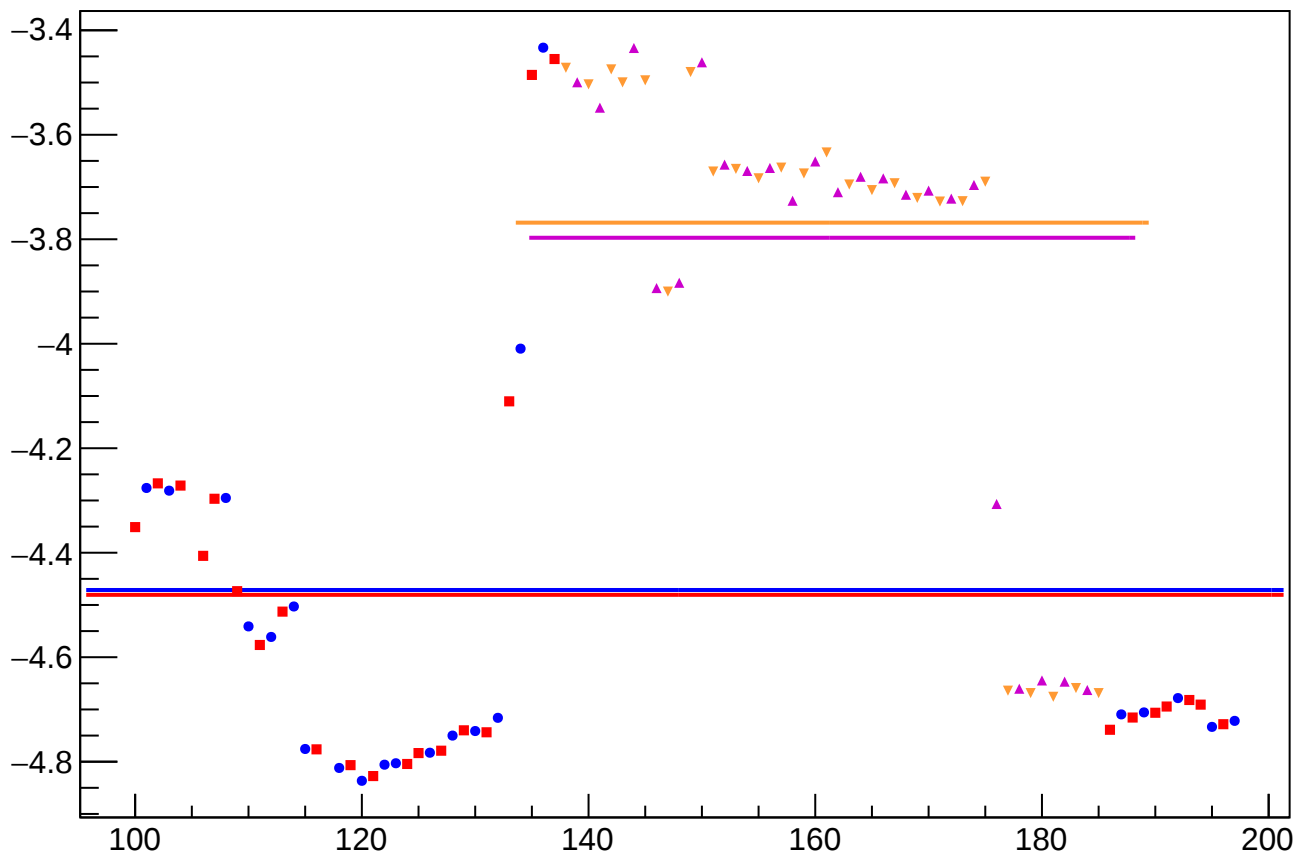
Right: 0.002+/-0.000 χ^2/NDF : 5091725.7/47

In: 0.002+/-0.000 χ^2/NDF : 2948790.9/44

Out: 0.002+/-0.000 χ^2/NDF : 3762717.0/50

All: 0.002+/-0.000 χ^2/NDF : 6712645.5/95

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.471+/-0.000 χ^2/NDF : 411678094049.1/21

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.481+/-0.000 χ^2/NDF : 350863303299.2/25

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

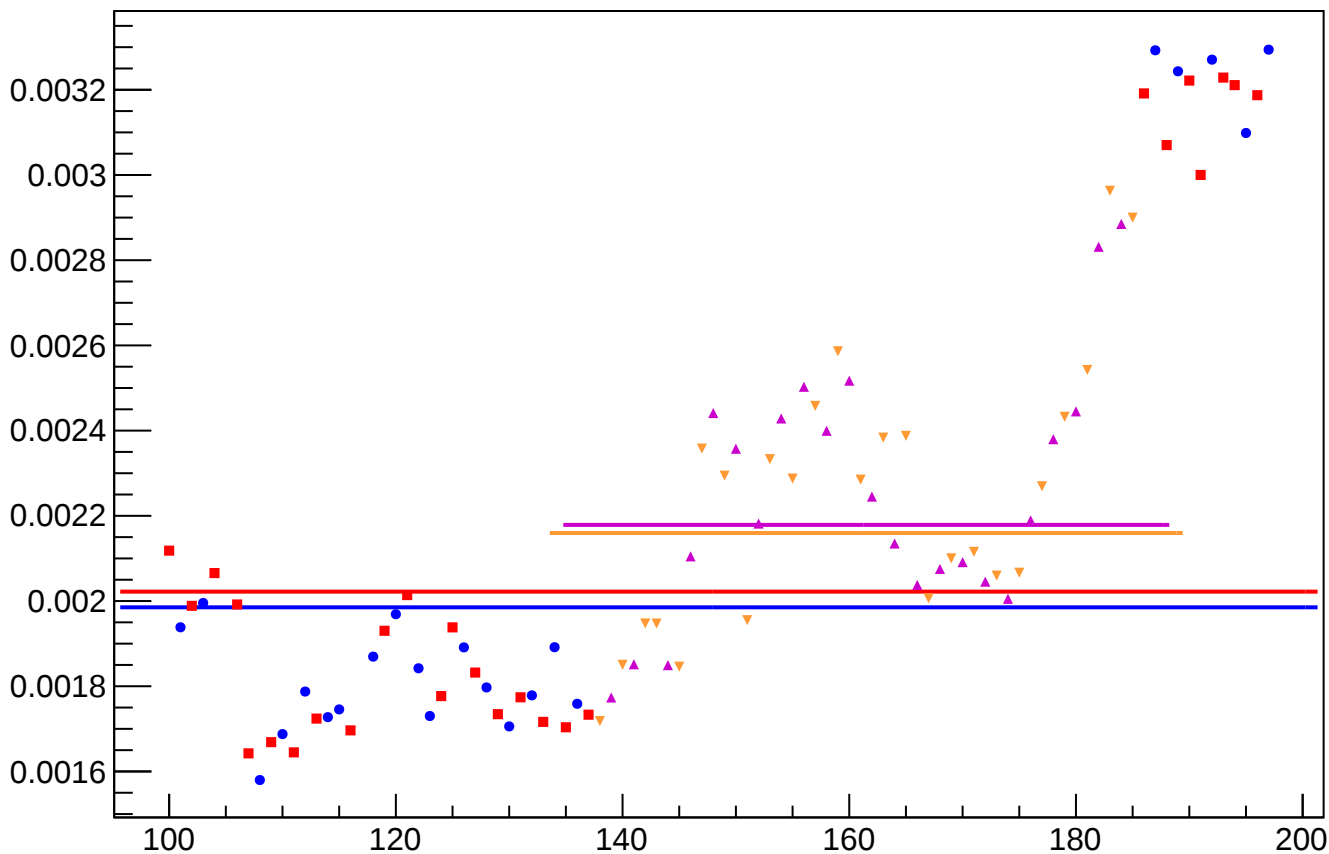
Right: -4.476+/-0.000 χ^2/NDF : 762644459634.4/47

In: -4.061+/-0.000 χ^2/NDF : 1488397046805.8/44

Out: -4.053+/-0.000 χ^2/NDF : 1641237784785.8/50

All: -4.057+/-0.000 χ^2/NDF : 3129834922252

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1076074.6/21

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 1387763.9/25

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

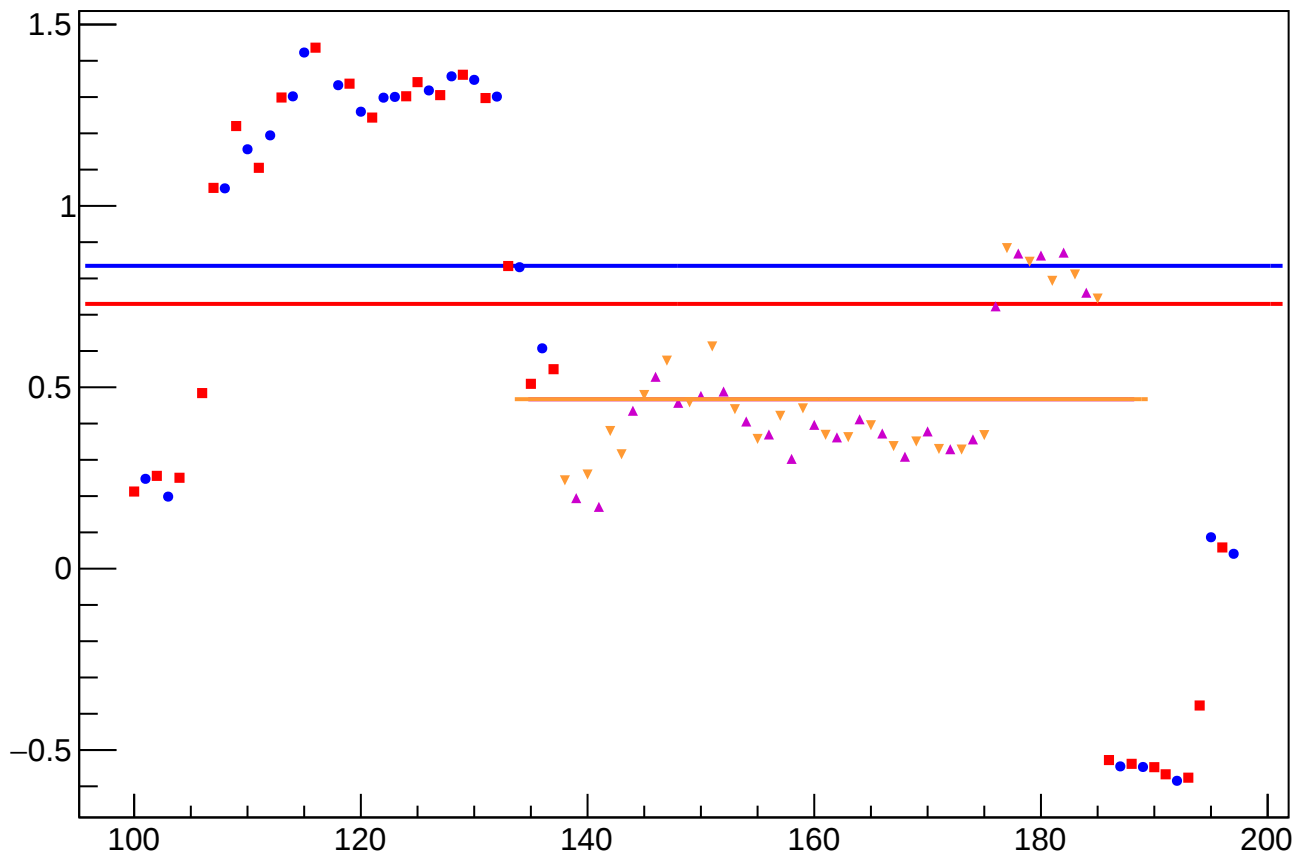
Right: 0.002+/-0.000 χ^2/NDF : 2467094.6/47

In: 0.002+/-0.000 χ^2/NDF :1643416.6/44

Out: 0.002+/-0.000 χ^2/NDF :1993318.7/50

All: 0.002+/-0.000 χ^2/NDF : 3636752.2/95

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.835 $\pm$ 0.000 χ^2/NDF : 60367032445.5/21

Left Out: 0.467 $\pm$ 0.000 χ^2/NDF : 7359344143.3/24

Right Out: 0.730 $\pm$ 0.000 χ^2/NDF : 85182693046.0/25

Left In: 0.467 $\pm$ 0.000 χ^2/NDF : 8036741308.0/22

Left: 0.467 $\pm$ 0.000 χ^2/NDF : 15396100488.4/47

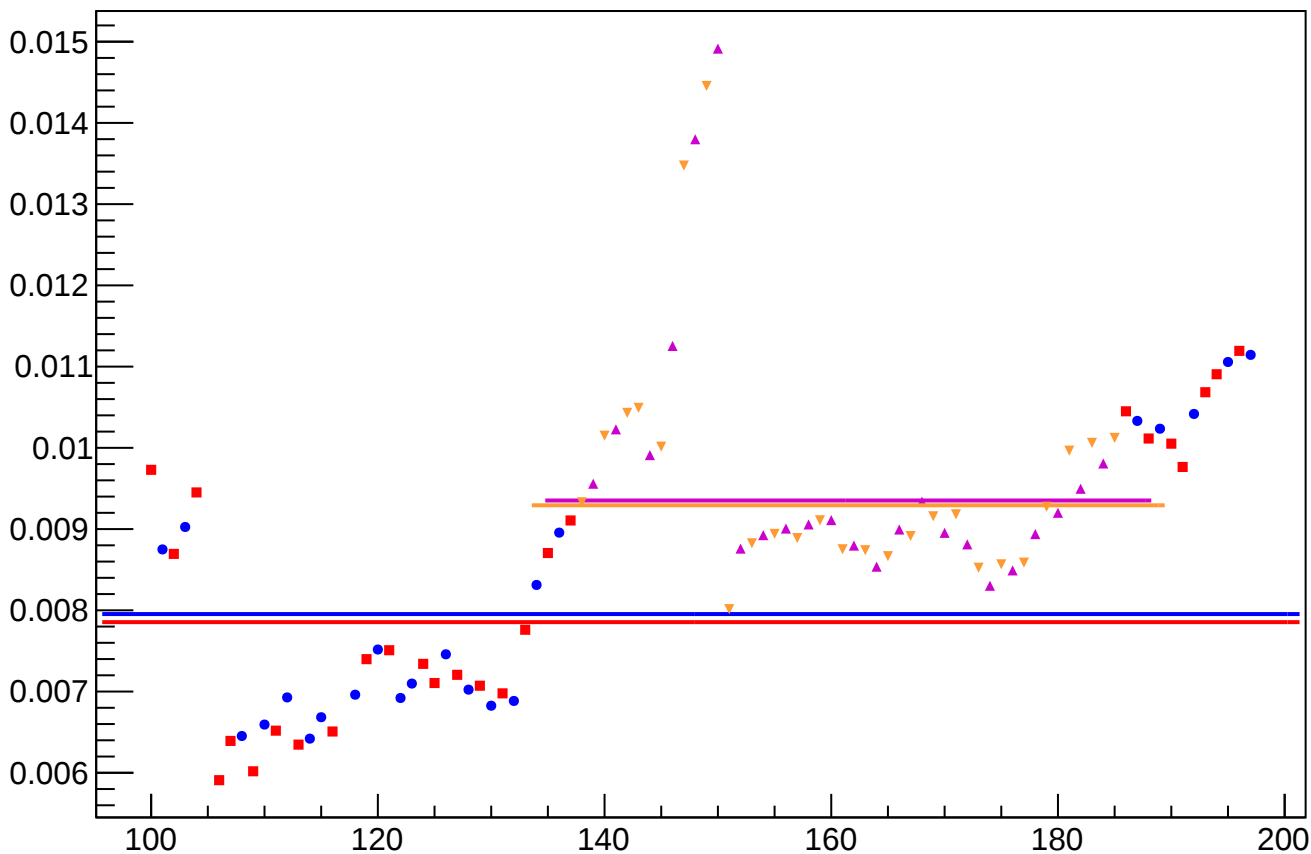
Right: 0.778 $\pm$ 0.000 χ^2/NDF : 146436156011.4/47

In: 0.626 $\pm$ 0.000 χ^2/NDF : 79809088841.1/44

Out: 0.587 $\pm$ 0.000 χ^2/NDF : 99116413820.6/50

All: 0.606 $\pm$ 0.000 χ^2/NDF : 179206473362.7

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 682314.4/21

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 970666.0/25

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

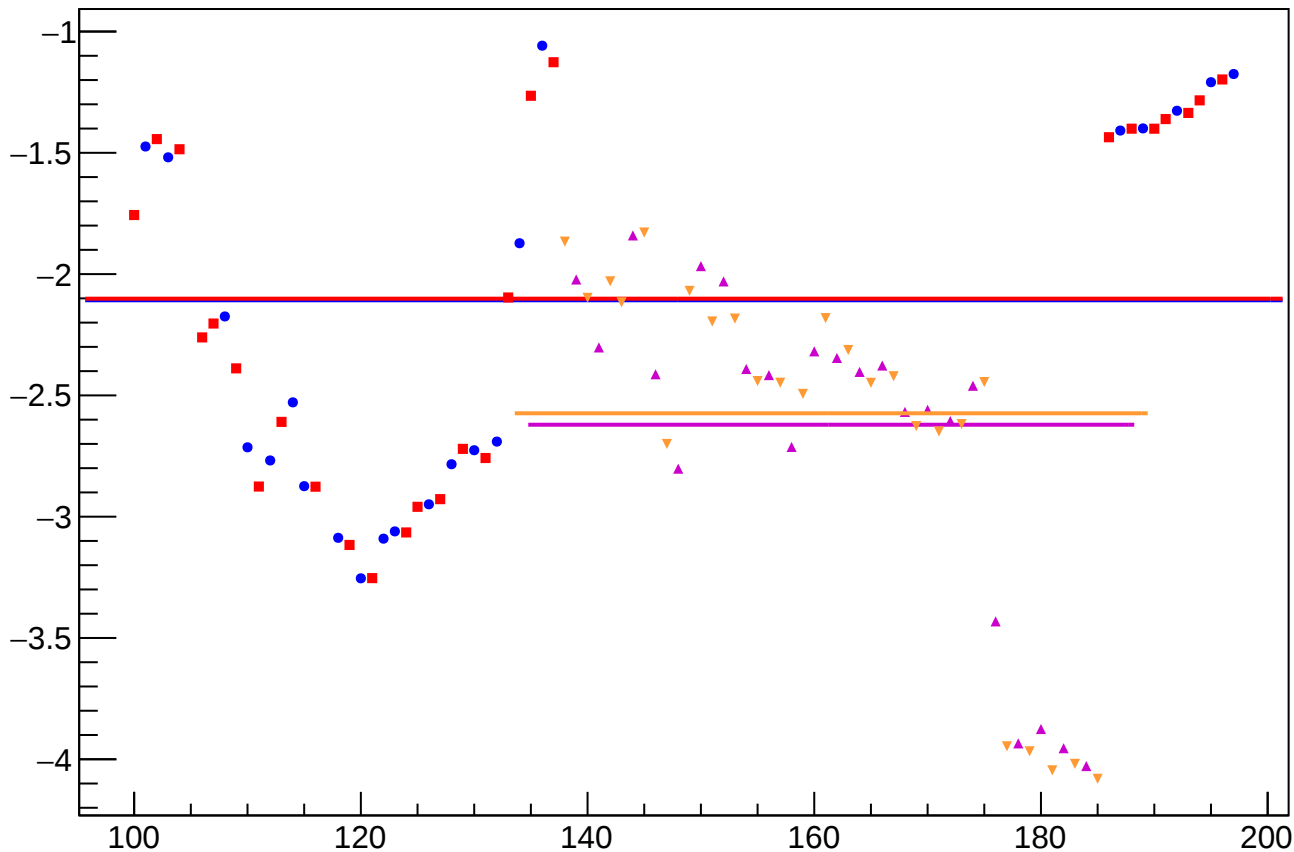
Right: 0.008+/-0.000 χ^2/NDF : 1654572.2/47

In: 0.009+/-0.000 χ^2/NDF :1569203.8/44

Out: 0.009+/-0.000 χ^2/NDF :1893411.4/50

All: 0.009+/-0.000 χ^2/NDF : 3466928.2/95

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.108+/-0.000

χ^2/NDF : 102199000762.6/21

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

Right: -2.104+/-0.000

χ^2/NDF : 202611739993.5/47

Right Out: -2.101+/-0.000

χ^2/NDF : 100408691481.9/25

In: -2.395+/-0.000

χ^2/NDF : 209064882847.8/44

Out: -2.359+/-0.000

χ^2/NDF : 223885930355.1/50

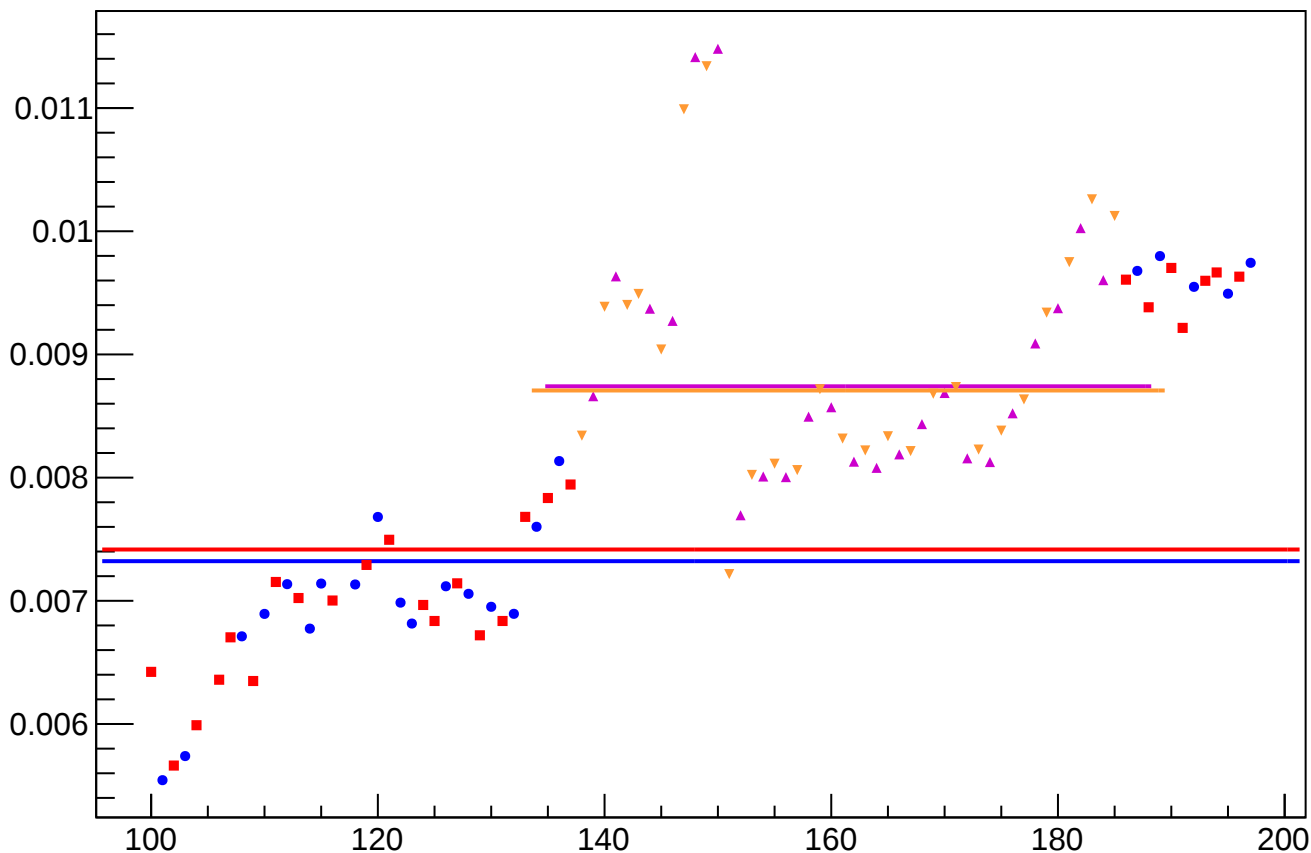
Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

All: -2.376+/-0.000

χ^2/NDF : 433220329249.8

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 598024.1/21

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 674739.8/25

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

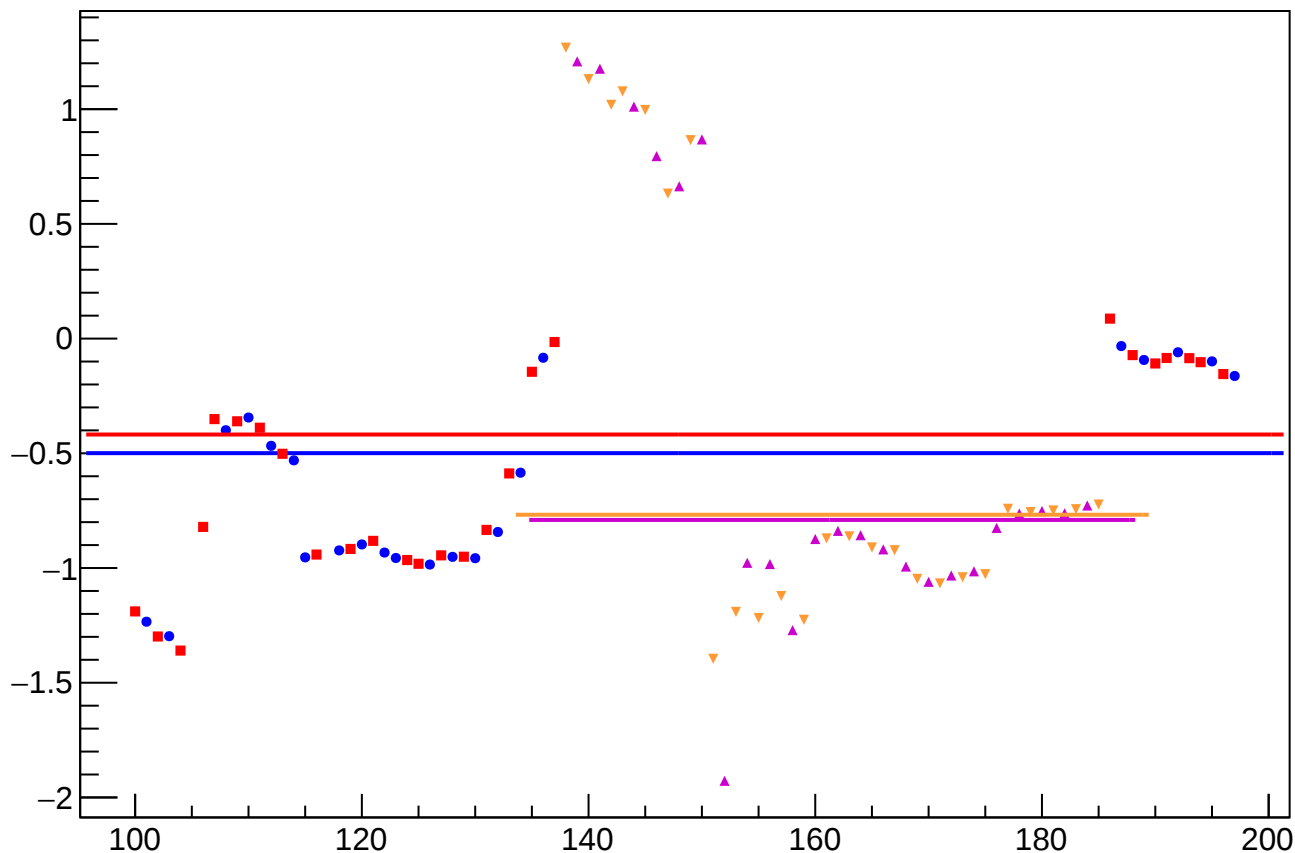
Right: 0.007+/-0.000 χ^2/NDF : 1274445.4/47

In: 0.008+/-0.000 χ^2/NDF : 1349830.6/44

Out: 0.008+/-0.000 χ^2/NDF : 1406976.1/50

All: 0.008+/-0.000 χ^2/NDF : 2756816.7/95

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.499+/-0.000 χ^2/NDF : 20453792442.4/21

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.418+/-0.000 χ^2/NDF : 24032494366.6/25

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

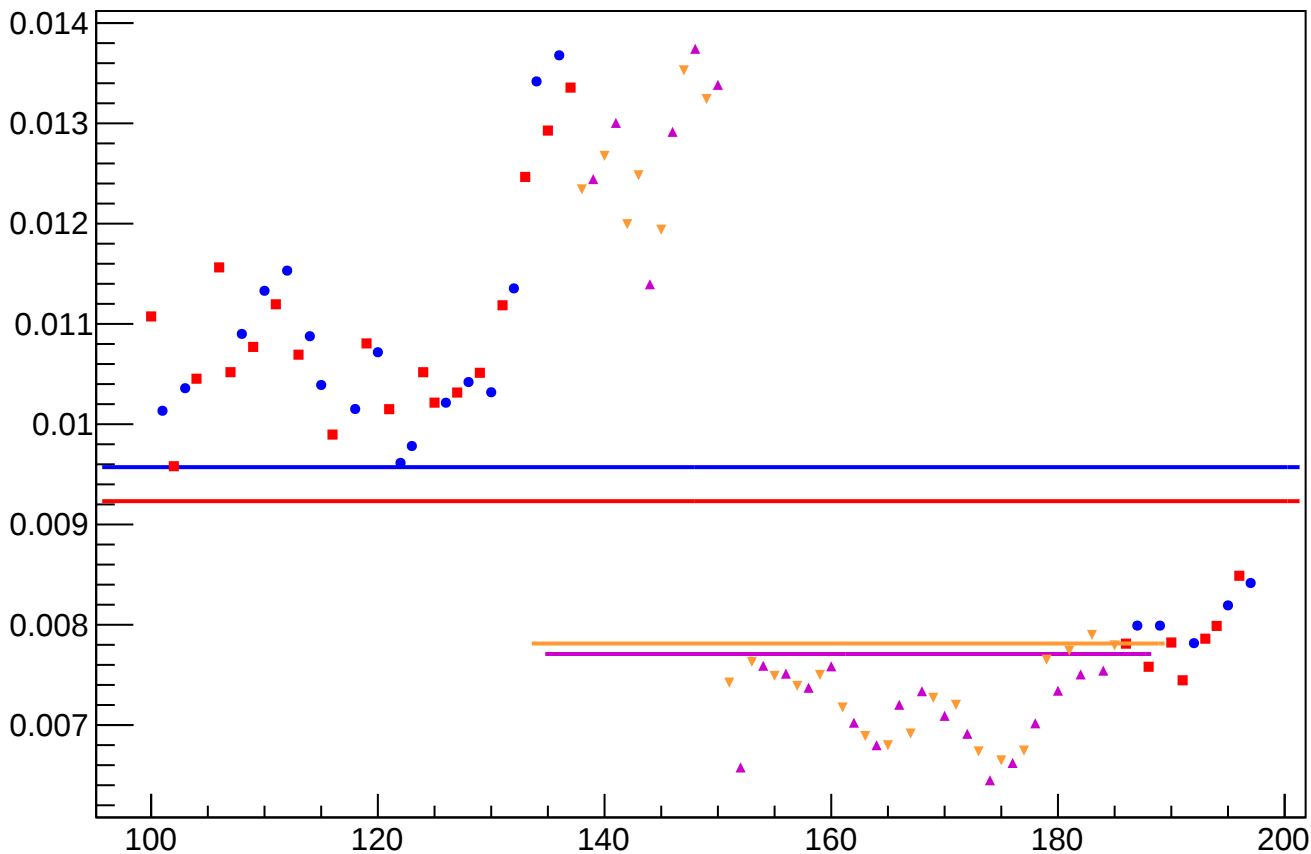
Right: -0.454+/-0.000 χ^2/NDF : 44859198857.2/47

In: -0.711+/-0.000 χ^2/NDF : 150207537931.1/44

Out: -0.660+/-0.000 χ^2/NDF : 155480090491.6/50

All: -0.684+/-0.000 χ^2/NDF : 306201808638.3

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 504267.7/21

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1705997.6/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 618914.5/25

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:1746653.6/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 3455681.9/47

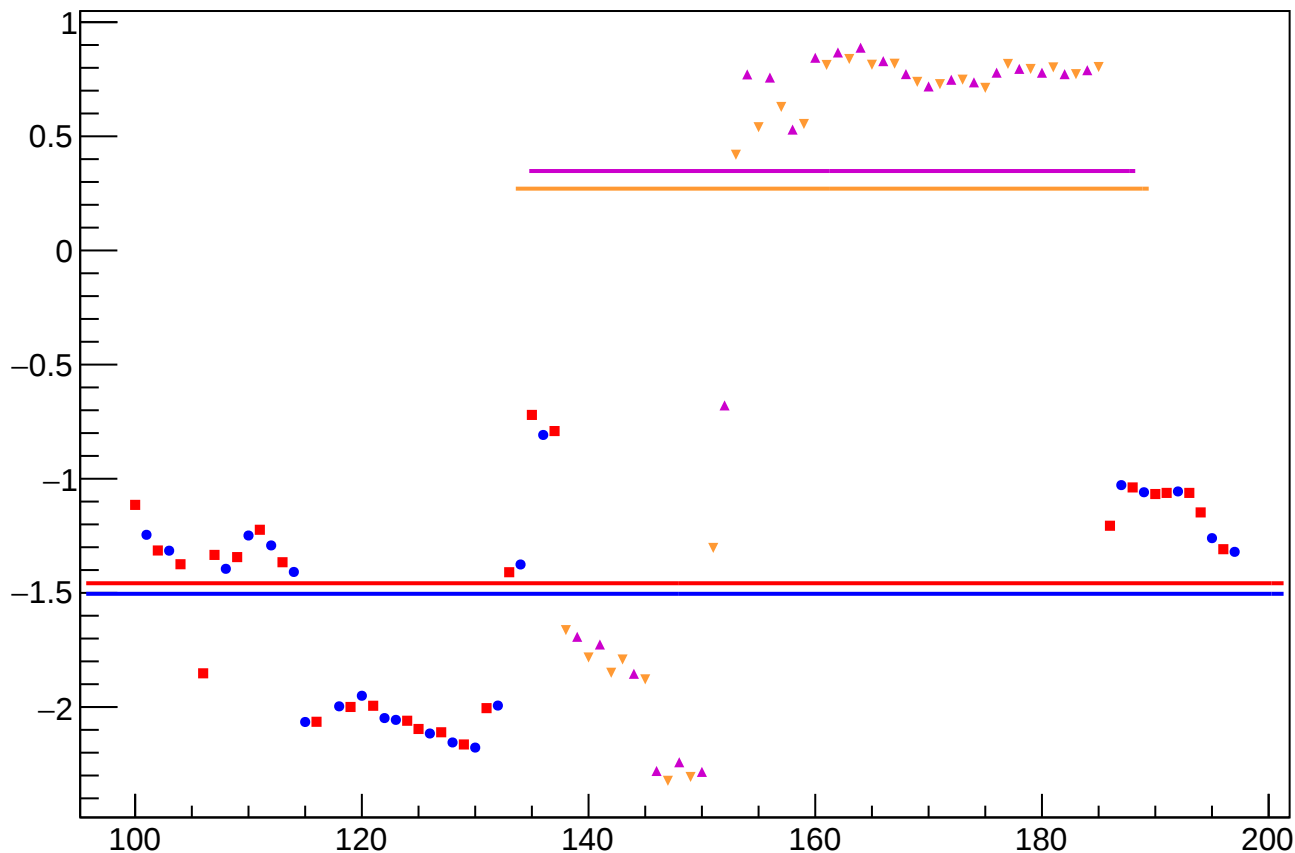
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 1136195.3/47

In: 0.008 $\pm$ 0.000 χ^2 /NDF:2767360.6/44

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:2676567.5/50

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 5444406.8/95

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.504+/-0.000 χ^2/NDF : 171781916920.5/21

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.458+/-0.000 χ^2/NDF : 162928732183.6/25

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

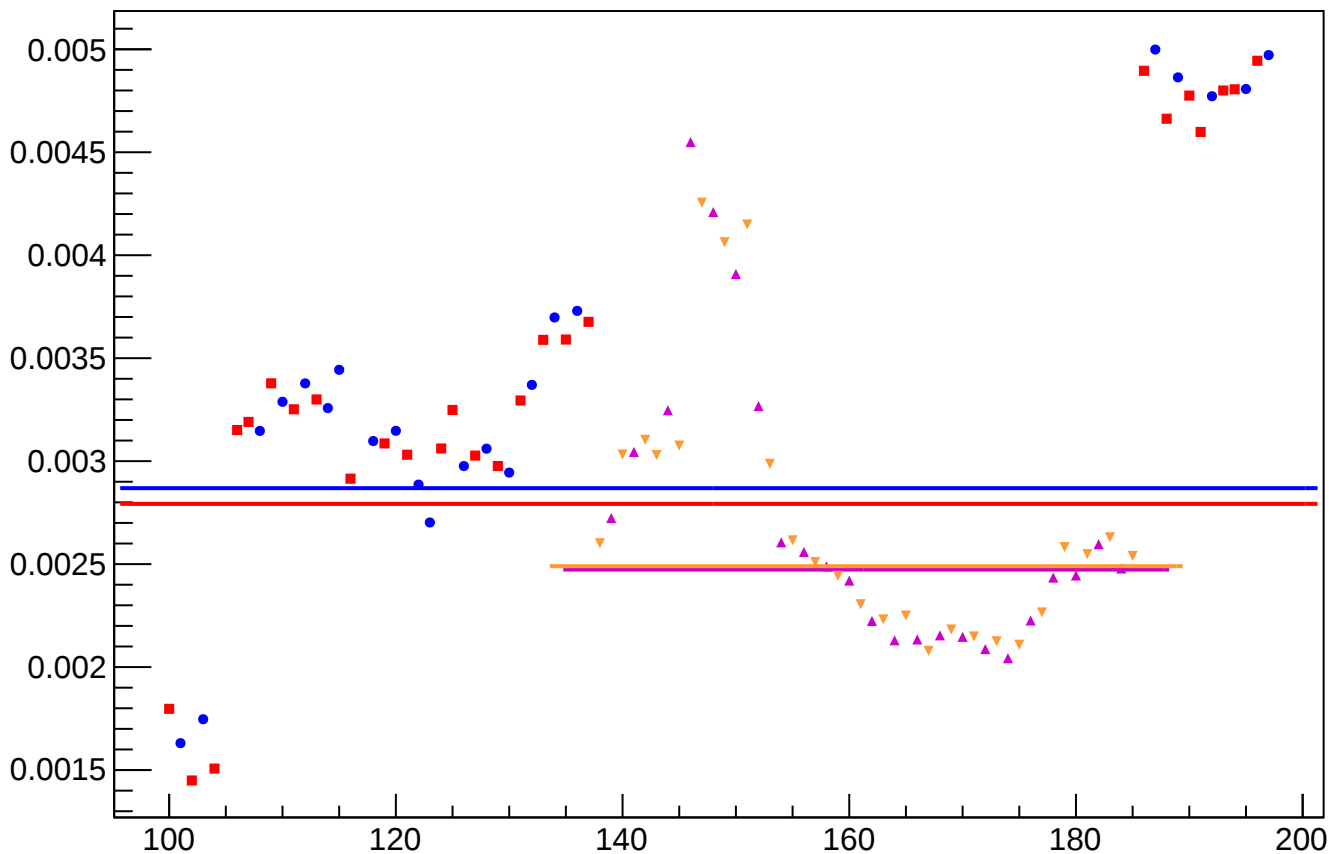
Right: -1.479+/-0.000 χ^2/NDF : 335838560097.2/47

In: -0.175+/-0.000 χ^2/NDF : 4848822477047.0/44

Out: -0.255+/-0.000 χ^2/NDF : 5126747002328.0/50

All: -0.216+/-0.000 χ^2/NDF : 9987054041832

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2154173.6/21

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 3187399.9/25

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

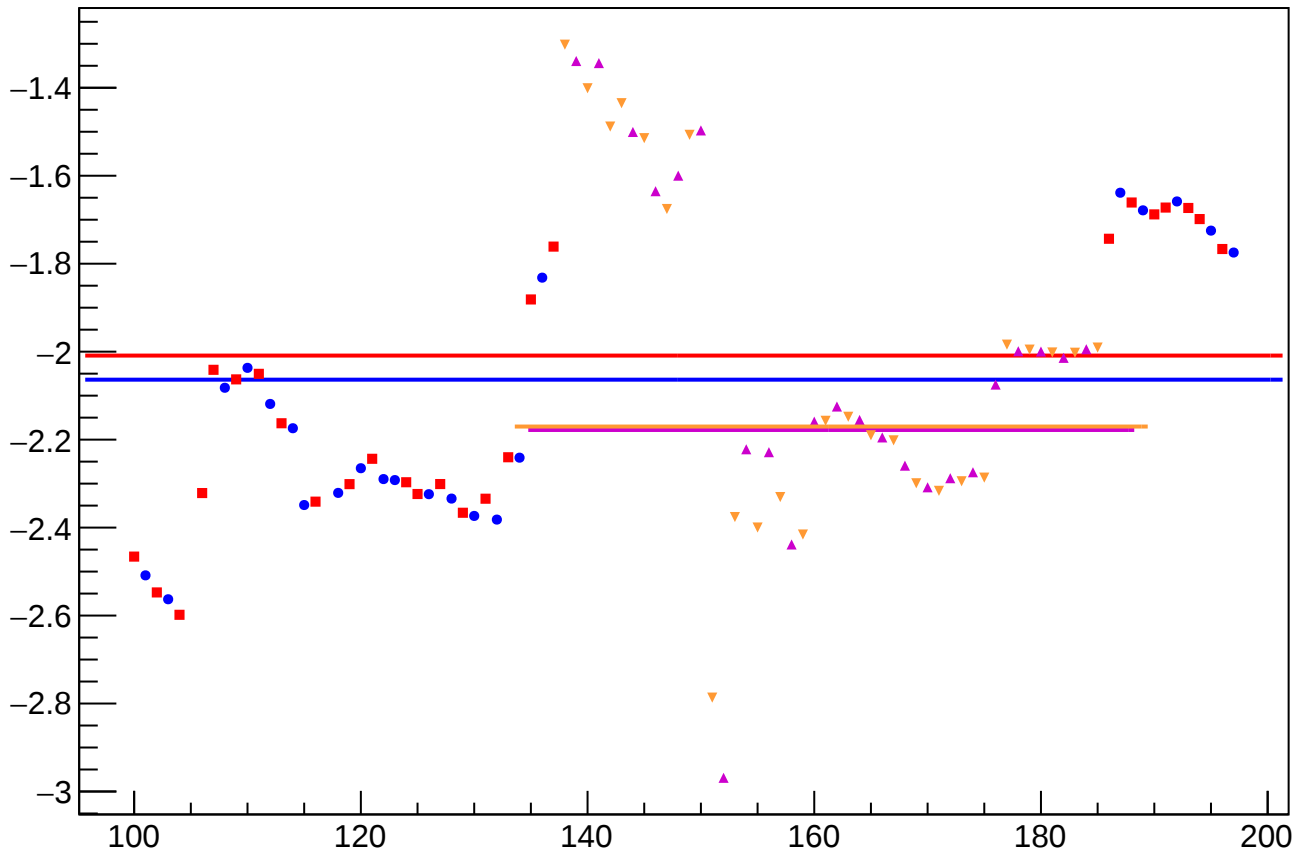
Right: 0.003+/-0.000 χ^2/NDF : 5347693.2/47

In: 0.003+/-0.000 χ^2/NDF :3508543.7/44

Out: 0.003+/-0.000 χ^2/NDF :4403591.5/50

All: 0.003+/-0.000 χ^2/NDF : 7912168.1/95

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.064+/-0.000 χ^2/NDF : 26809091014.1/21

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -2.009+/-0.000 χ^2/NDF : 32472817499.7/25

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

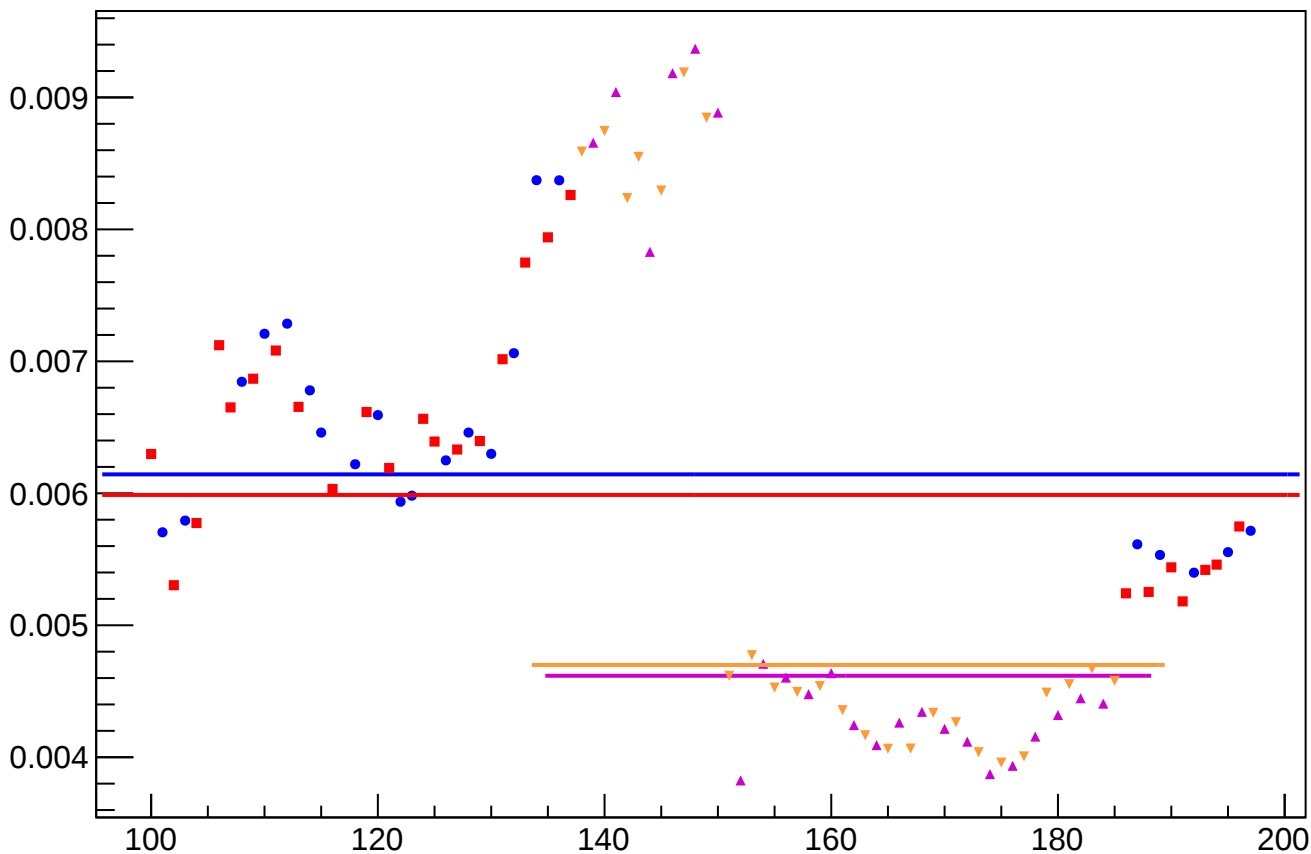
Right: -2.034+/-0.000 χ^2/NDF : 59690886535.3/47

In: -2.149+/-0.000 χ^2/NDF : 102638171460.7/44

Out: -2.124+/-0.000 χ^2/NDF : 98051770520.6/50

All: -2.136+/-0.000 χ^2/NDF : 201005425423.5

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2/NDF : 294868.2/21

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF : 2319588.7/24

Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 348876.6/25

Left In: 0.005 $\pm$ 0.000 χ^2/NDF : 2367440.9/22

Left: 0.005 $\pm$ 0.000 χ^2/NDF : 4691984.4/47

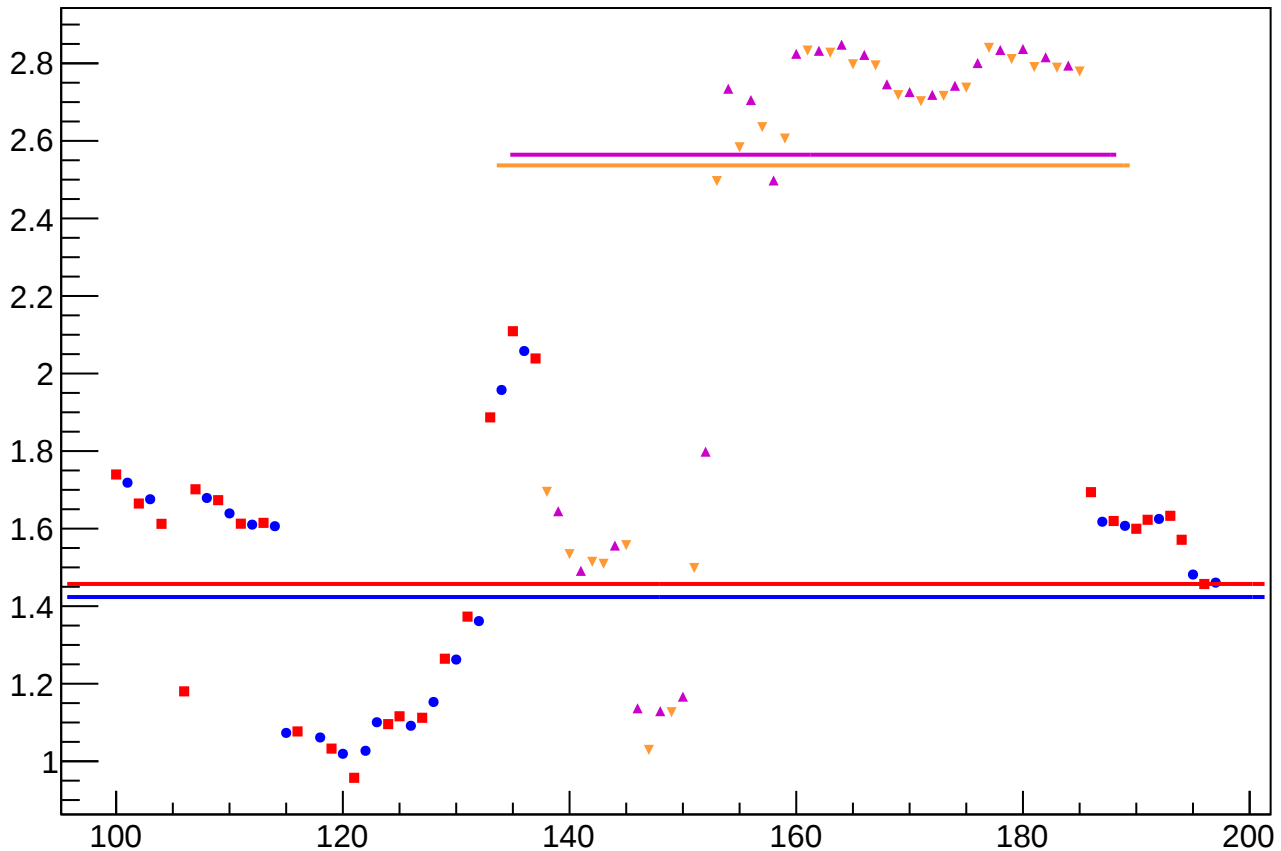
Right: 0.006 $\pm$ 0.000 χ^2/NDF : 650380.0/47

In: 0.005 $\pm$ 0.000 χ^2/NDF : 3526542.1/44

Out: 0.005 $\pm$ 0.000 χ^2/NDF : 3384191.4/50

All: 0.005 $\pm$ 0.000 χ^2/NDF : 6914753.8/95

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.424 $\pm$ 0.000 χ^2/NDF : 174087393162.2/21

Left Out: 2.537 $\pm$ 0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.457 $\pm$ 0.000 χ^2/NDF : 176653741436.3/25

Left In: 2.564 $\pm$ 0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550 $\pm$ 0.000 χ^2/NDF : 530319507083.6/47

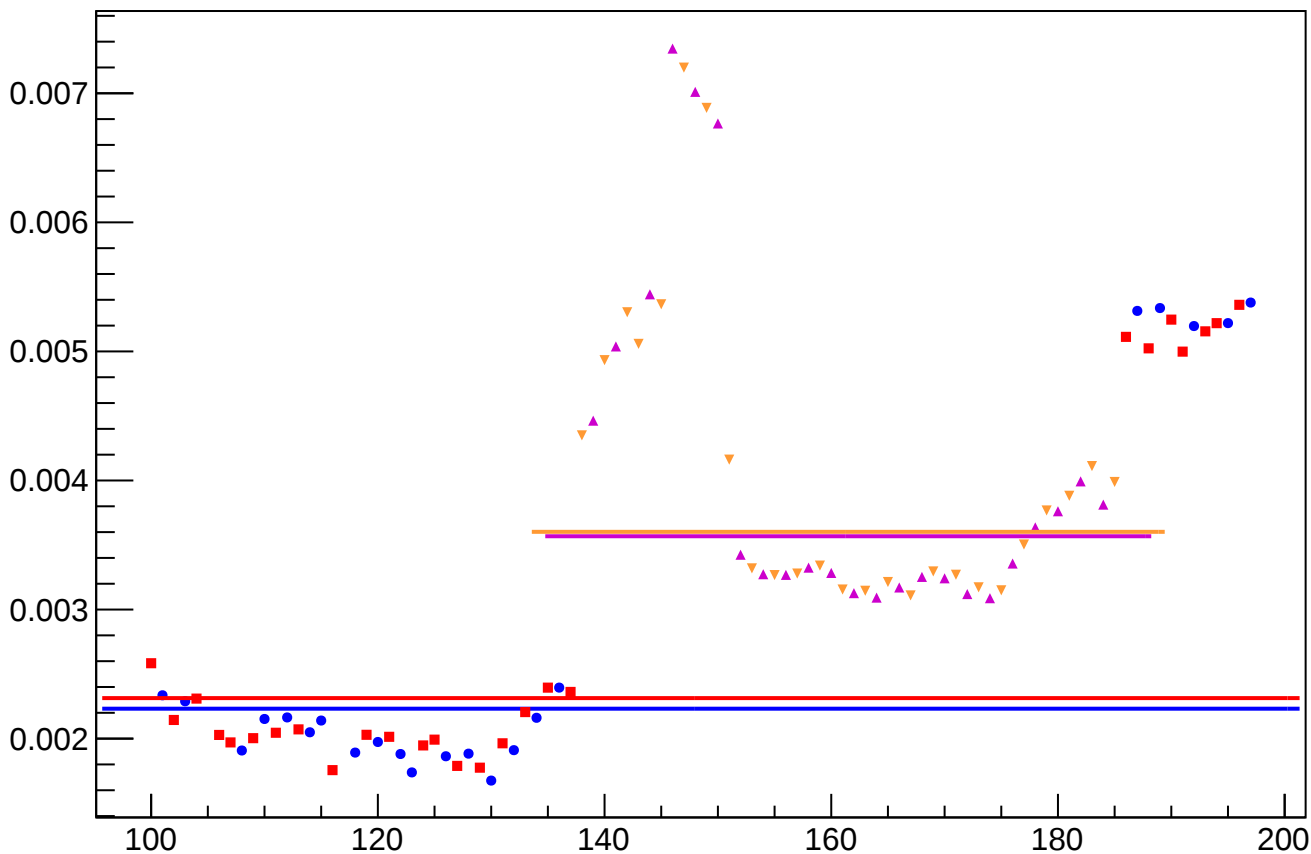
Right: 1.441 $\pm$ 0.000 χ^2/NDF : 351692020686.2/47

In: 1.914 $\pm$ 0.000 χ^2/NDF : 1344123122578.7/44

Out: 1.918 $\pm$ 0.000 χ^2/NDF : 1306532327684.3/50

All: 1.916 $\pm$ 0.000 χ^2/NDF : 2650681565284.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2317357.5/21

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2926553.6/25

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

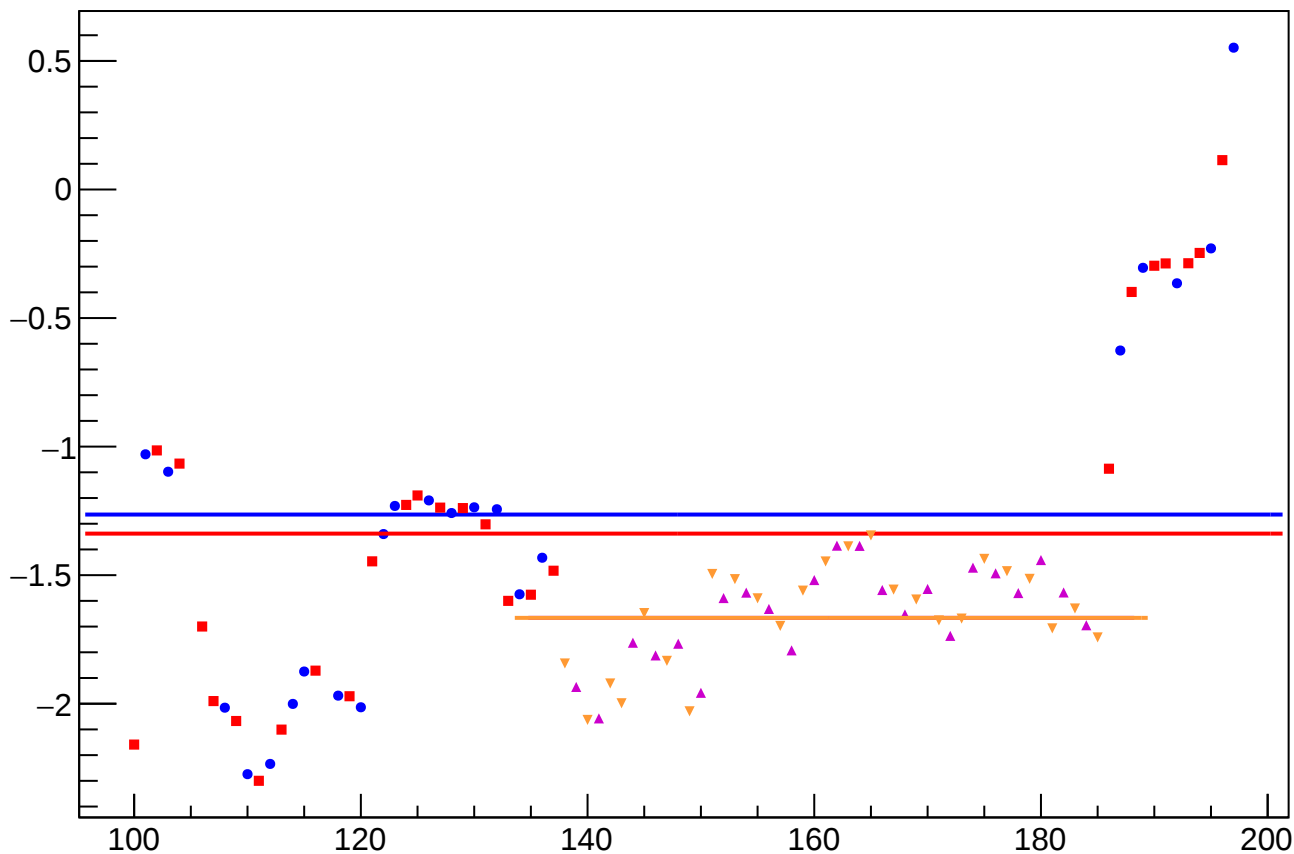
Right: 0.002+/-0.000 χ^2/NDF : 5255180.7/47

In: 0.003+/-0.000 χ^2/NDF :6376291.6/44

Out: 0.003+/-0.000 χ^2/NDF :6788181.4/50

All: 0.003+/-0.000 χ^2/NDF : 13174252.3/95

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.264 $\pm$ 0.000 χ^2 /NDF: 69693904744.5/21

Left Out: -1.666 $\pm$ 0.000 χ^2 /NDF: 18325162131.2/24

Right Out: -1.338 $\pm$ 0.000 χ^2 /NDF: 89262408863.5/25

Left In: -1.666 $\pm$ 0.000 χ^2 /NDF: 14292570816.9/22

Left: -1.666 $\pm$ 0.000 χ^2 /NDF: 32617732948.1/47

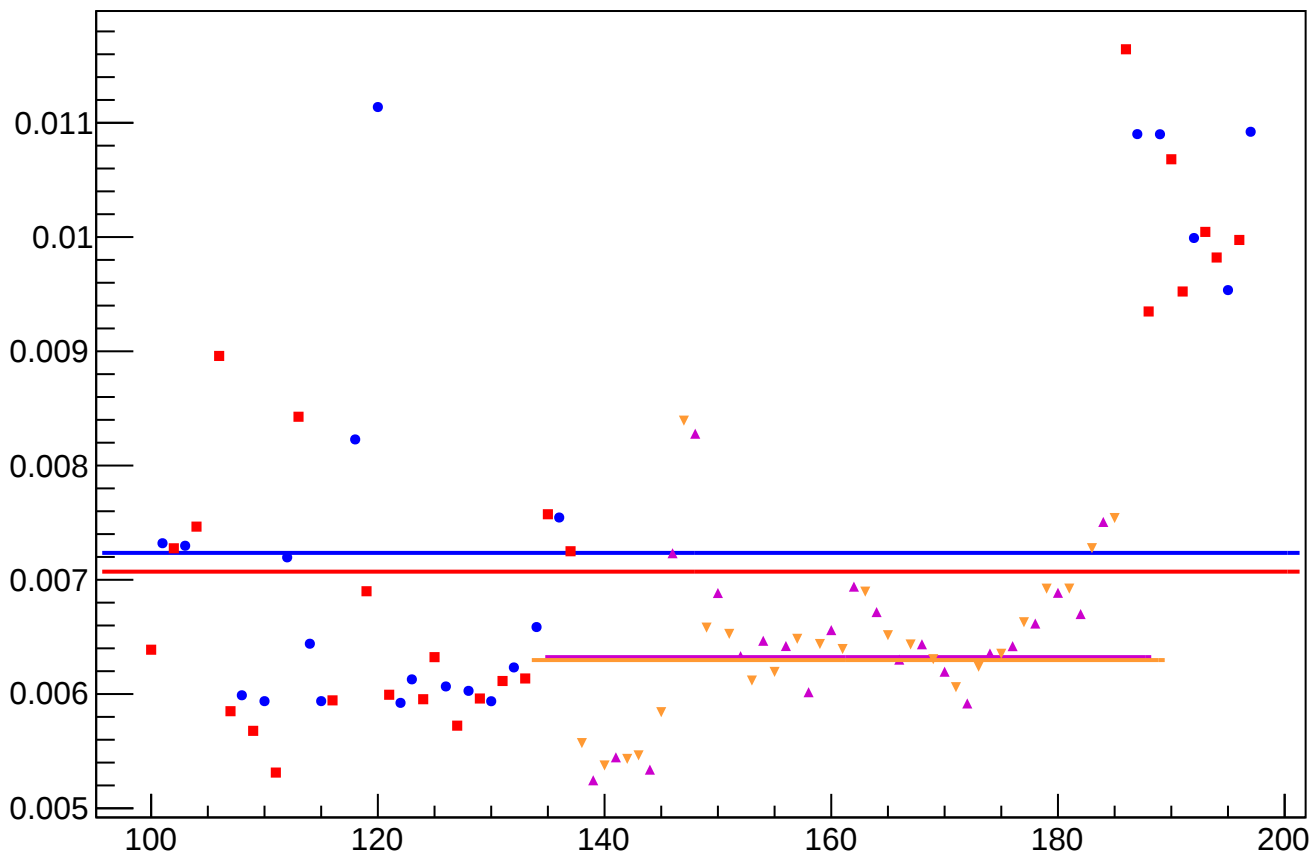
Right: -1.305 $\pm$ 0.000 χ^2 /NDF: 159461705273.9/47

In: -1.550 $\pm$ 0.000 χ^2 /NDF: 103130098856.9/44

Out: -1.562 $\pm$ 0.000 χ^2 /NDF: 122602155490.8/50

All: -1.556 $\pm$ 0.000 χ^2 /NDF: 225777989366.9

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007 ± 0.000 $\chi^2/\text{NDF}: 852946.7/21$

Left Out: 0.006 ± 0.000 $\chi^2/\text{NDF}: 310757.0/24$

Right Out: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1103022.5/25$

Left In: 0.006 ± 0.000 $\chi^2/\text{NDF}: 330859.7/22$

Left: 0.006 ± 0.000 $\chi^2/\text{NDF}: 641901.9/47$

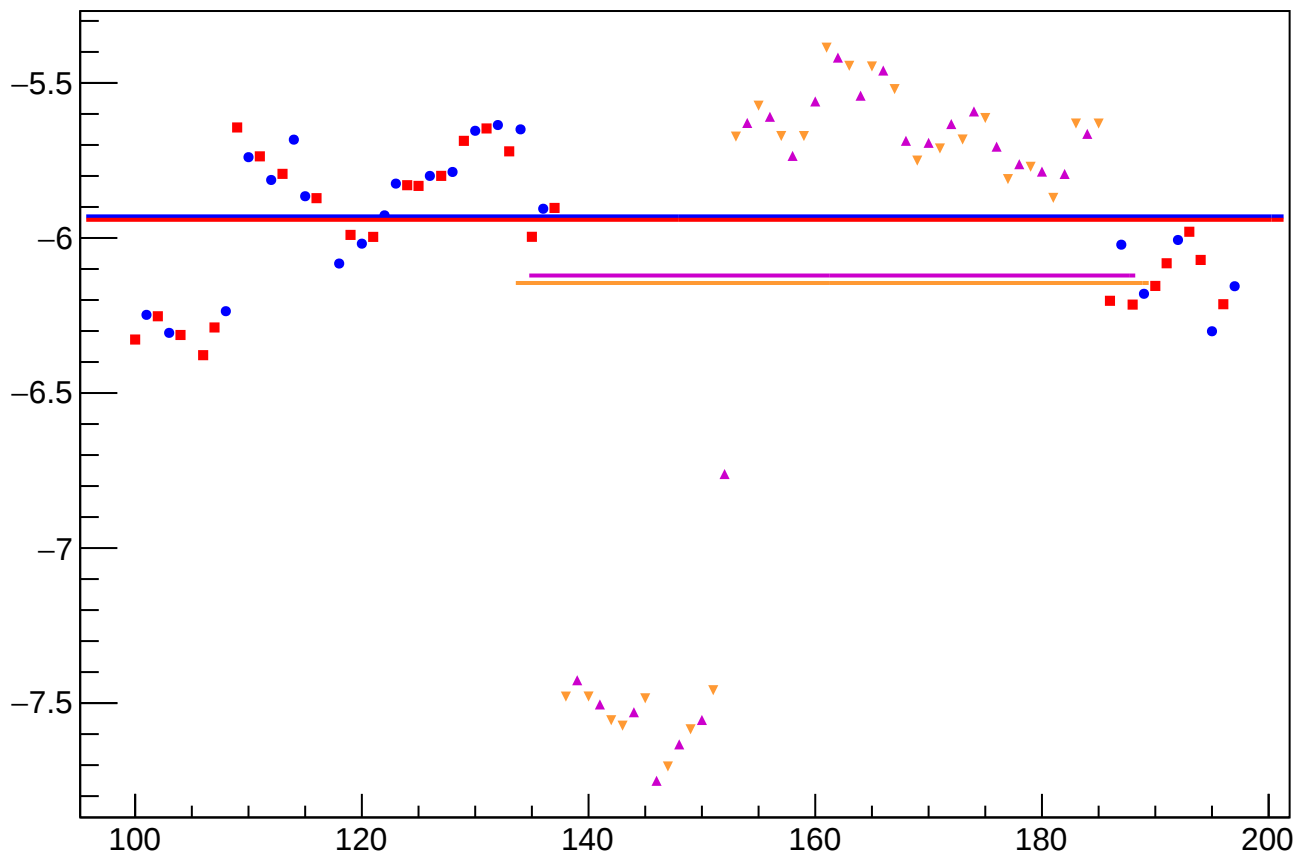
Right: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1960929.9/47$

In: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1381146.8/44$

Out: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1581285.6/50$

All: 0.007 ± 0.000 $\chi^2/\text{NDF}: 2963623.7/95$

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.930+/-0.000 χ^2/NDF : 12309525071.5/21

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.941+/-0.000 χ^2/NDF : 14043728676.0/25

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

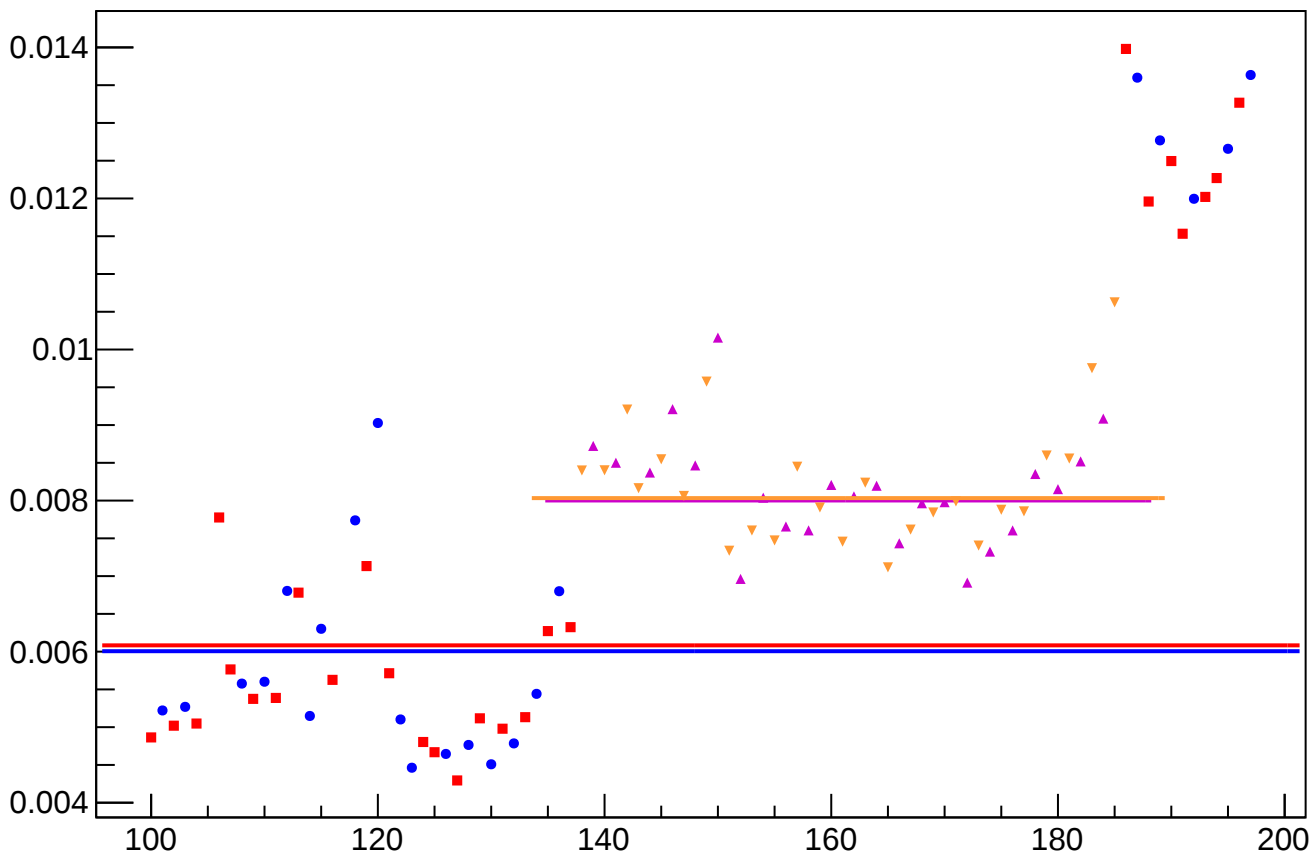
Right: -5.936+/-0.000 χ^2/NDF : 26367507679.3/47

In: -6.031+/-0.000 χ^2/NDF : 174857195353.2/44

Out: -6.045+/-0.000 χ^2/NDF : 204659607995.8/50

All: -6.038+/-0.000 χ^2/NDF : 379563169633.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2168763.4/21

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2611102.3/25

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

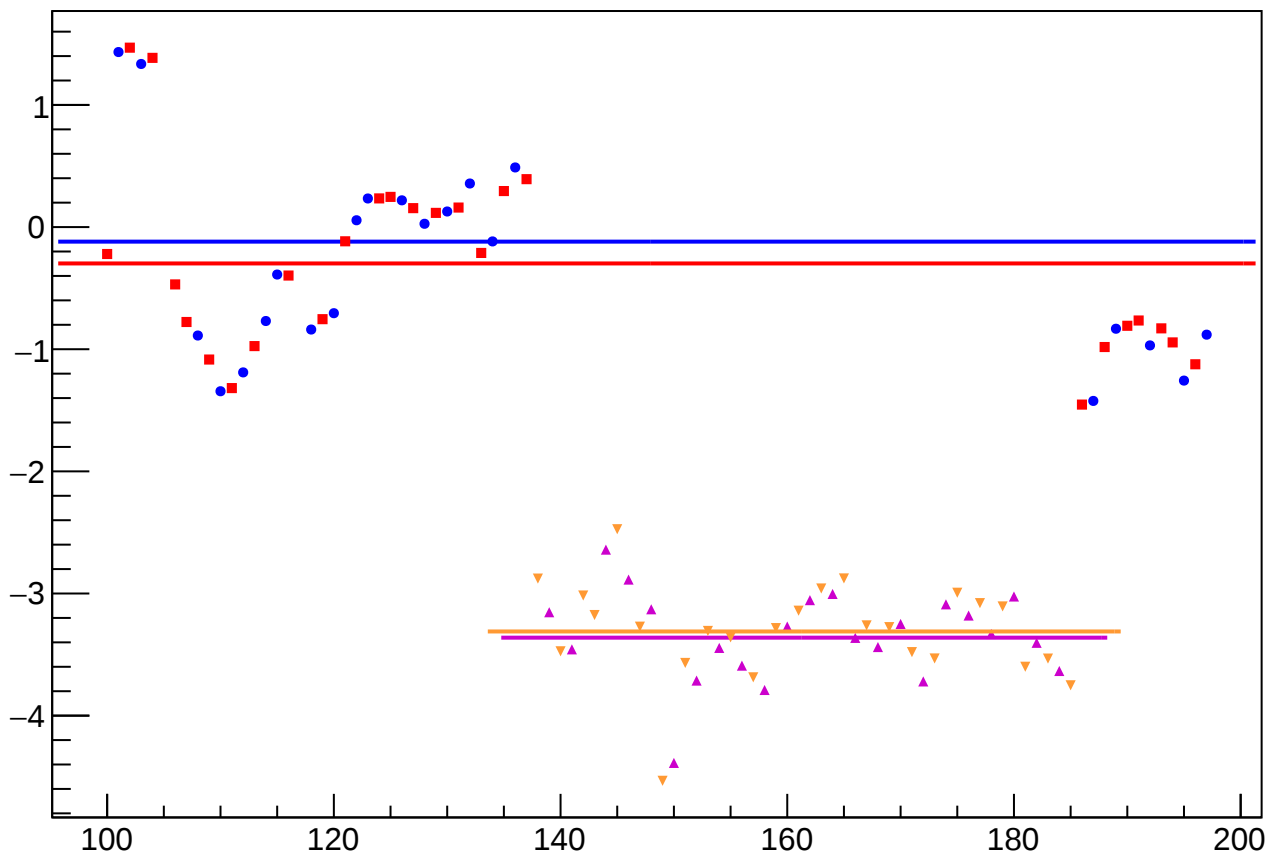
Right: 0.006+/-0.000 χ^2/NDF : 4781261.8/47

In: 0.007+/-0.000 χ^2/NDF :3316087.9/44

Out: 0.007+/-0.000 χ^2/NDF :3778178.3/50

All: 0.007+/-0.000 χ^2/NDF : 7094355.3/95

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.119 ± 0.000 $\chi^2/\text{NDF}: 27383818490.4/21$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.298 ± 0.000 $\chi^2/\text{NDF}: 30076696670.6/25$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

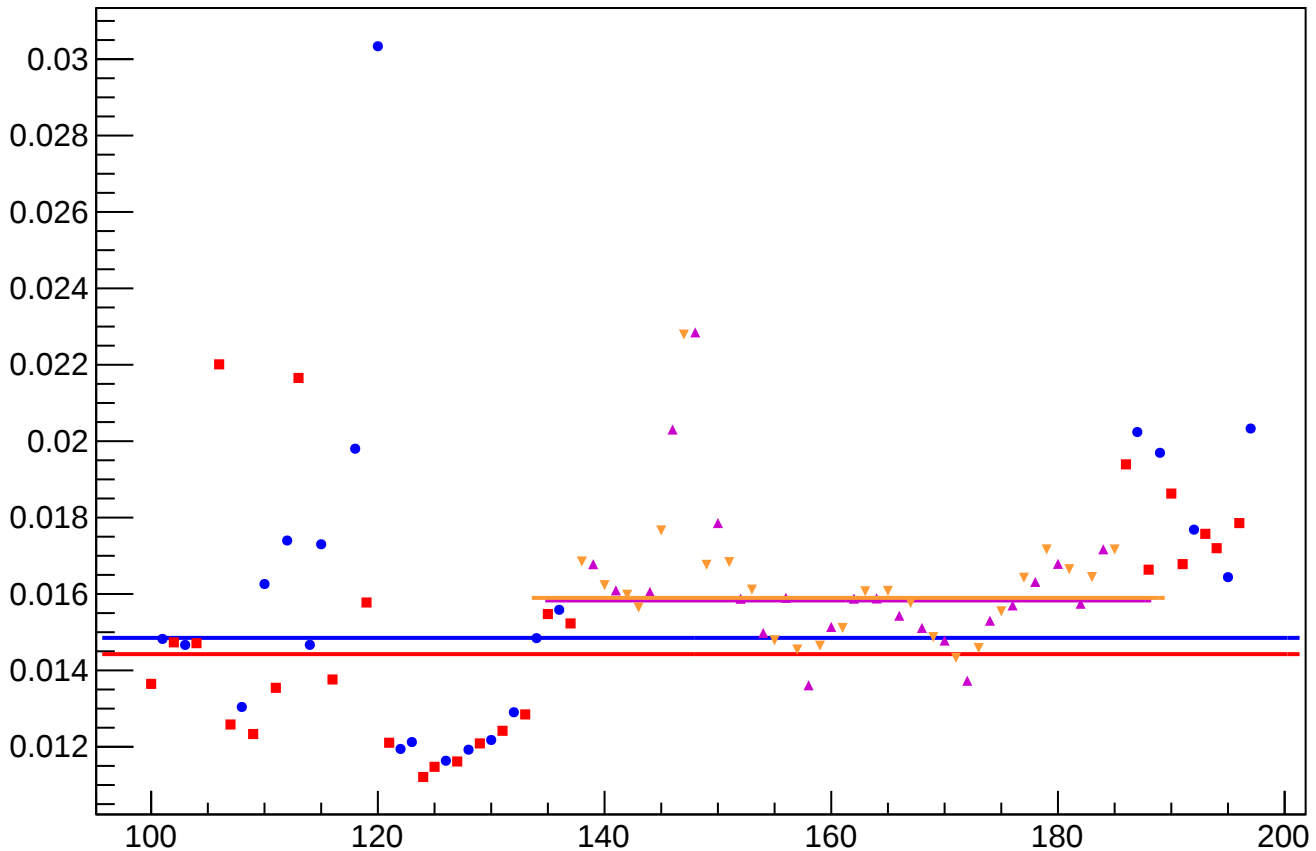
Right: -0.219 ± 0.000 $\chi^2/\text{NDF}: 58163519742.3/47$

In: -2.149 ± 0.000 $\chi^2/\text{NDF}: 296149444811.2/44$

Out: -2.059 ± 0.000 $\chi^2/\text{NDF}: 303293979827.5/50$

All: -2.101 ± 0.000 $\chi^2/\text{NDF}: 599898591239.2$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 691961.6/21

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.014+/-0.000 χ^2/NDF : 649247.8/25

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

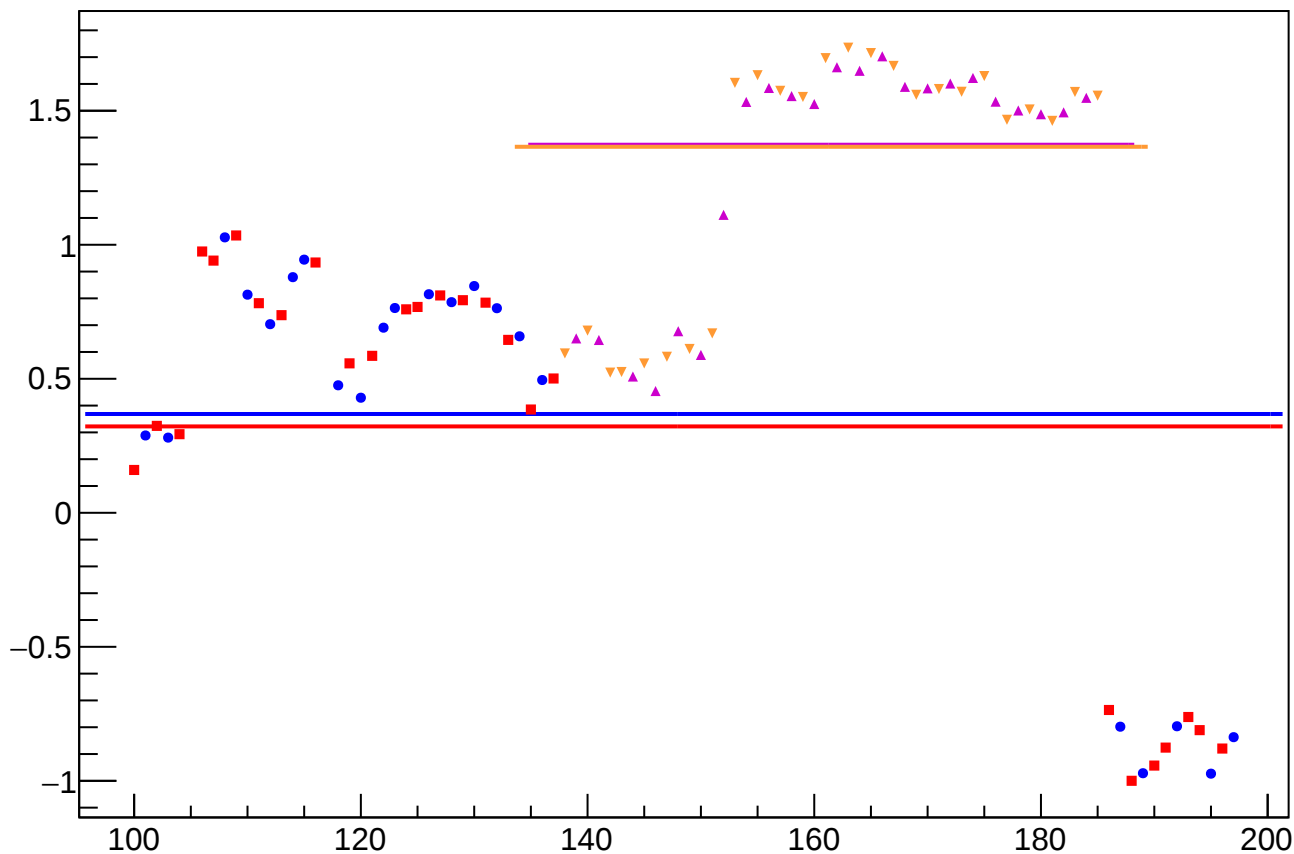
Right: 0.015+/-0.000 χ^2/NDF : 1349200.0/47

In: 0.015+/-0.000 χ^2/NDF :1079031.5/44

Out: 0.015+/-0.000 χ^2/NDF :1027208.3/50

All: 0.015+/-0.000 χ^2/NDF : 2109798.1/95

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.369 $\pm$ 0.000

χ^2/NDF : 40951821267.8/21

Left: 1.369 $\pm$ 0.000 χ^2/NDF : 138167468300.7/47

Right: 0.343 $\pm$ 0.000 χ^2/NDF : 96961812666.3/47

Left Out: 1.366 $\pm$ 0.000

χ^2/NDF : 74741956067.9/24

In: 1.162 $\pm$ 0.000 χ^2/NDF : 195169840164.0/44

Right Out: 0.322 $\pm$ 0.000

χ^2/NDF : 55876549532.3/25

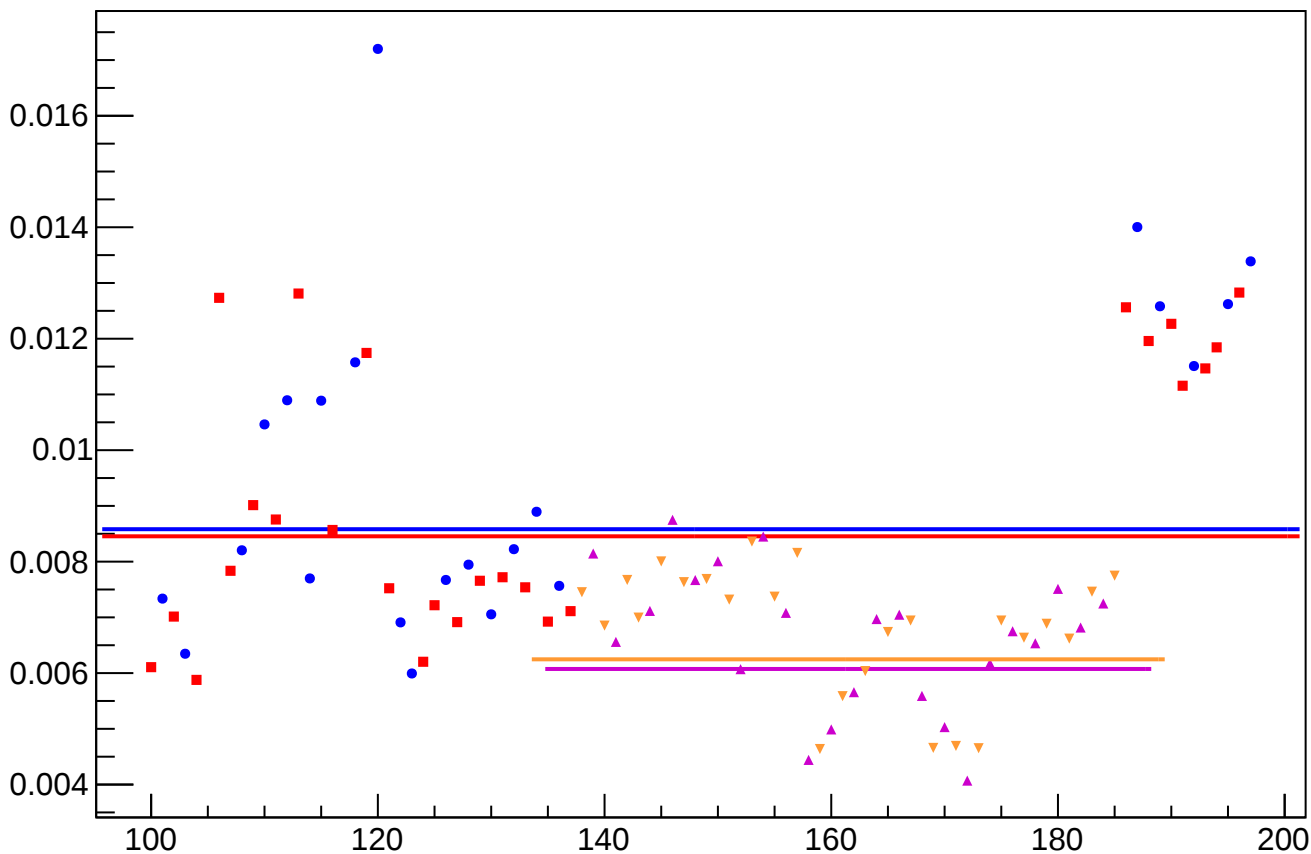
Out: 1.112 $\pm$ 0.000 χ^2/NDF : 243167055708.0/50

Left In: 1.373 $\pm$ 0.000

χ^2/NDF : 63413151416.3/22

All: 1.136 $\pm$ 0.000 χ^2/NDF : 439009062084.5

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 1167003.7/21

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 1340758.7/25

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2775615.7/47

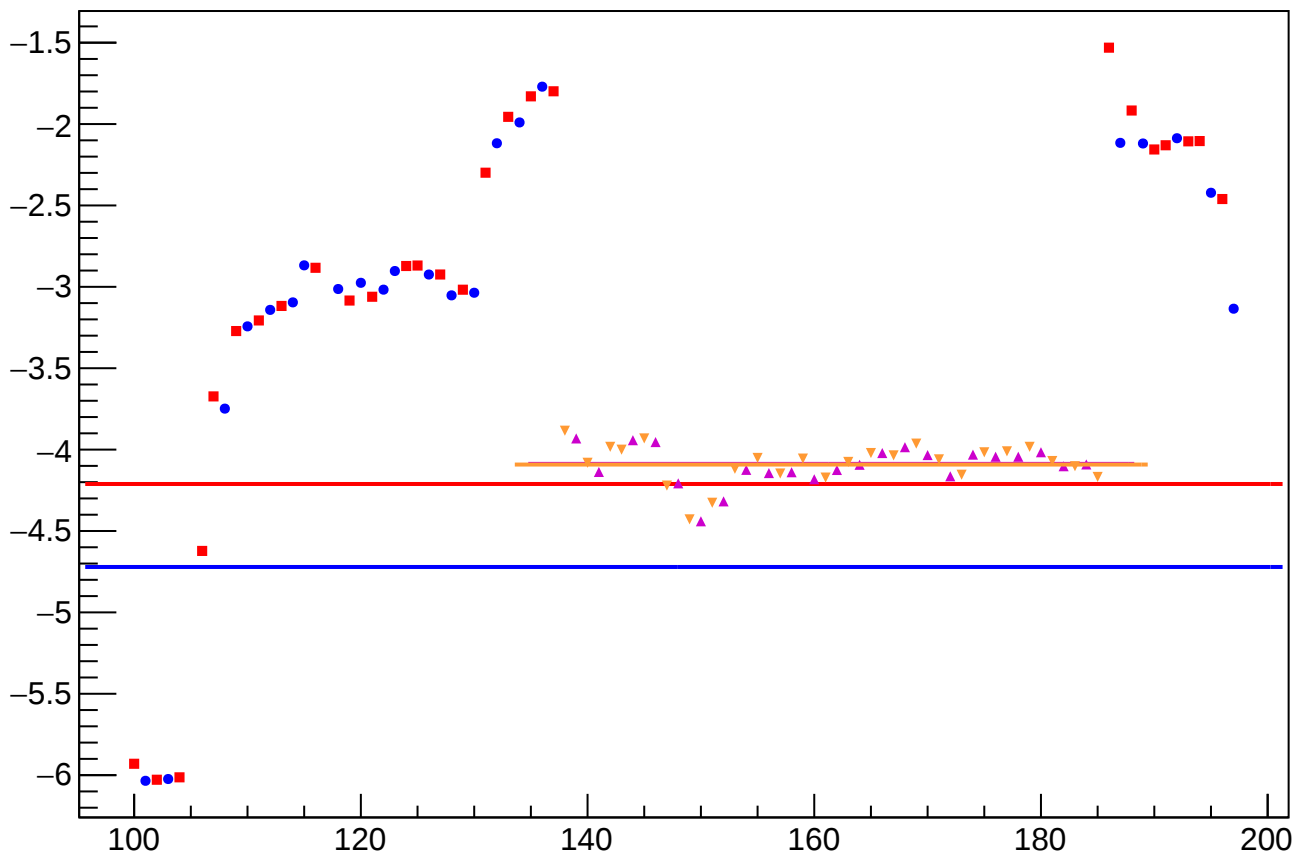
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 2509782.7/47

In: 0.007 $\pm$ 0.000 χ^2 /NDF:3730888.0/44

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:3679321.9/50

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 7428236.1/95

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.721 ± 0.000 $\chi^2/\text{NDF}: 217781892198.6/21$

Left Out: -4.092 ± 0.000 $\chi^2/\text{NDF}: 39806766.7/24$

Right Out: -4.211 ± 0.000 $\chi^2/\text{NDF}: 259788849216.2/25$

Left In: -4.088 ± 0.000 $\chi^2/\text{NDF}: 34412880.7/22$

Left: -4.089 ± 0.000 $\chi^2/\text{NDF}: 74248792.8/47$

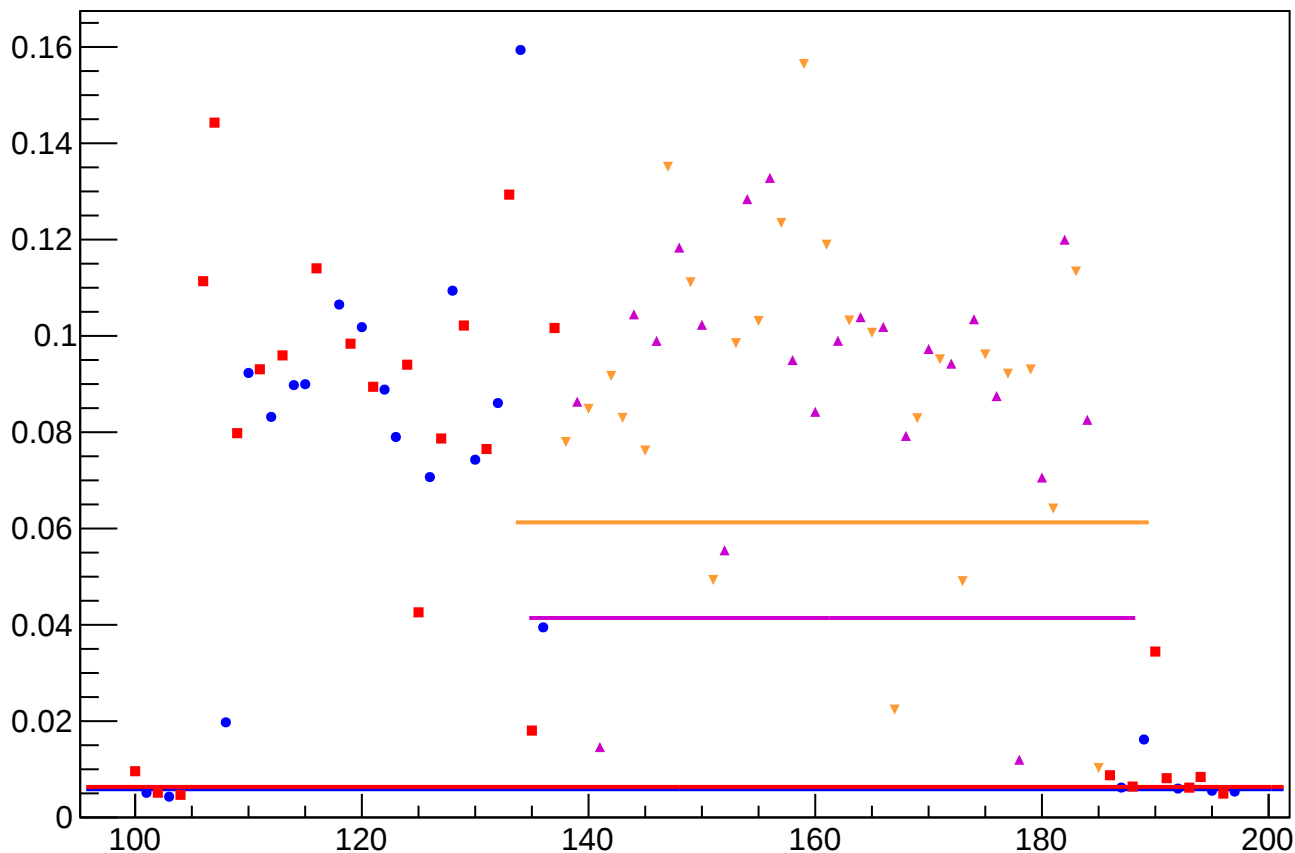
Right: -4.473 ± 0.000 $\chi^2/\text{NDF}: 486895638795.4/47$

In: -4.686 ± 0.000 $\chi^2/\text{NDF}: 219433201898.1/44$

Out: -4.206 ± 0.000 $\chi^2/\text{NDF}: 259869061192.1/50$

All: -4.454 ± 0.000 $\chi^2/\text{NDF}: 487978865206.0$

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7995976.6/21

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 8745003.7/25

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

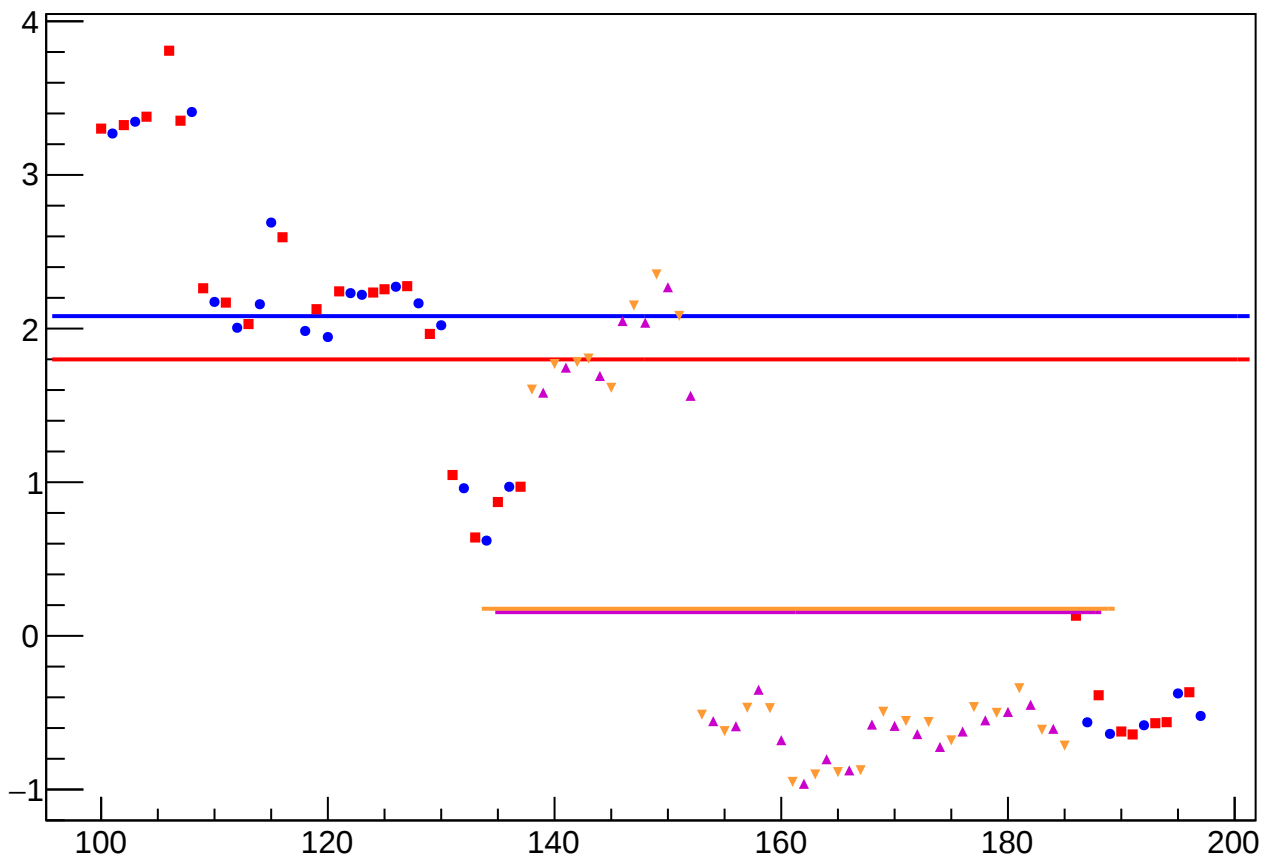
Right: 0.006+/-0.000 χ^2/NDF : 16757753.8/47

In: 0.008+/-0.000 χ^2/NDF : 31317538.2/44

Out: 0.009+/-0.000 χ^2/NDF : 34199976.1/50

All: 0.008+/-0.000 χ^2/NDF : 65560990.1/95

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 2.081+/-0.000 χ^2/NDF : 130493786448.7/21

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.799+/-0.000 χ^2/NDF : 150779686177.6/25

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

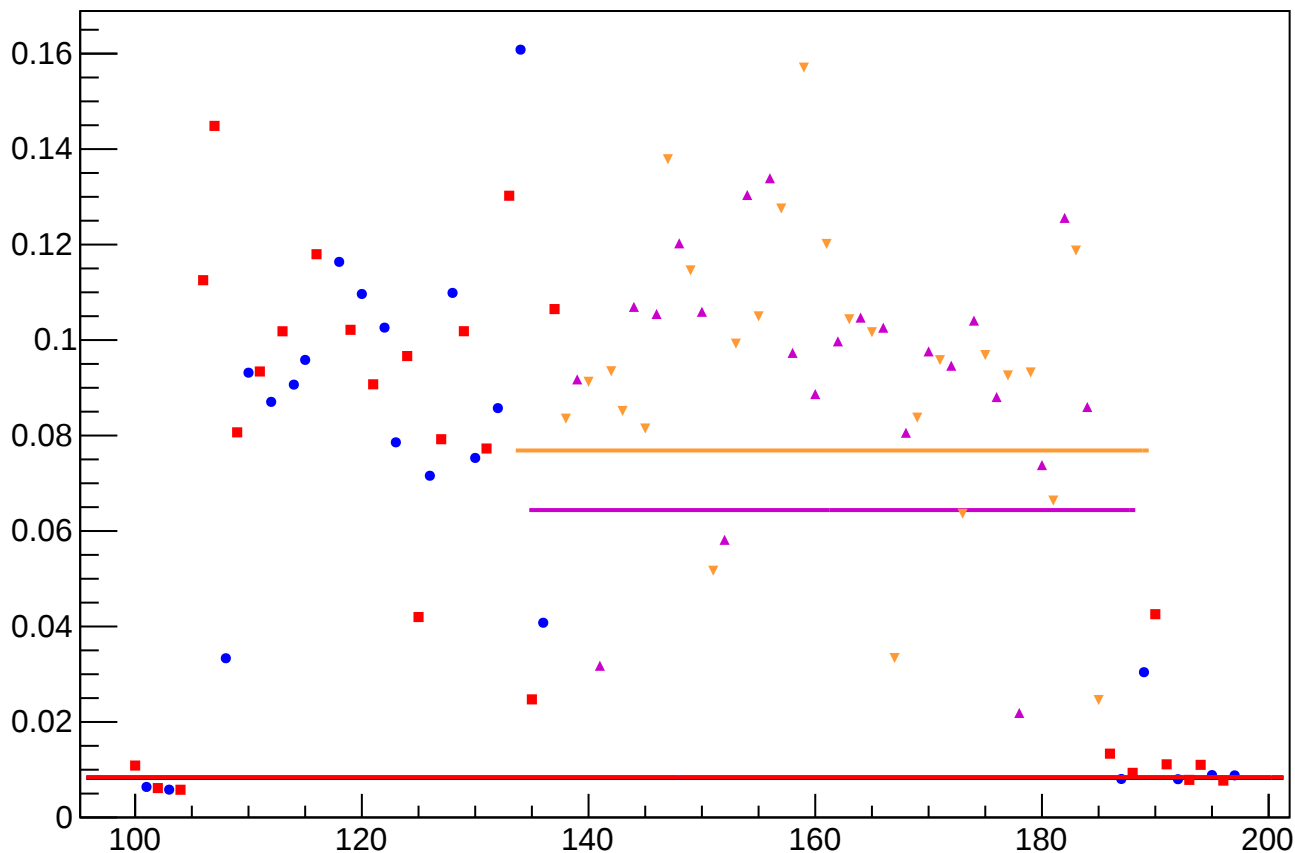
Right: 1.936+/-0.000 χ^2/NDF : 282979636386.1/47

In: 1.969+/-0.000 χ^2/NDF : 142677051895.0/44

Out: 1.720+/-0.000 χ^2/NDF : 159733095208.6/50

All: 1.842+/-0.000 χ^2/NDF : 303821565284.2

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7897734.0/21

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8590066.2/25

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11584112.3/47

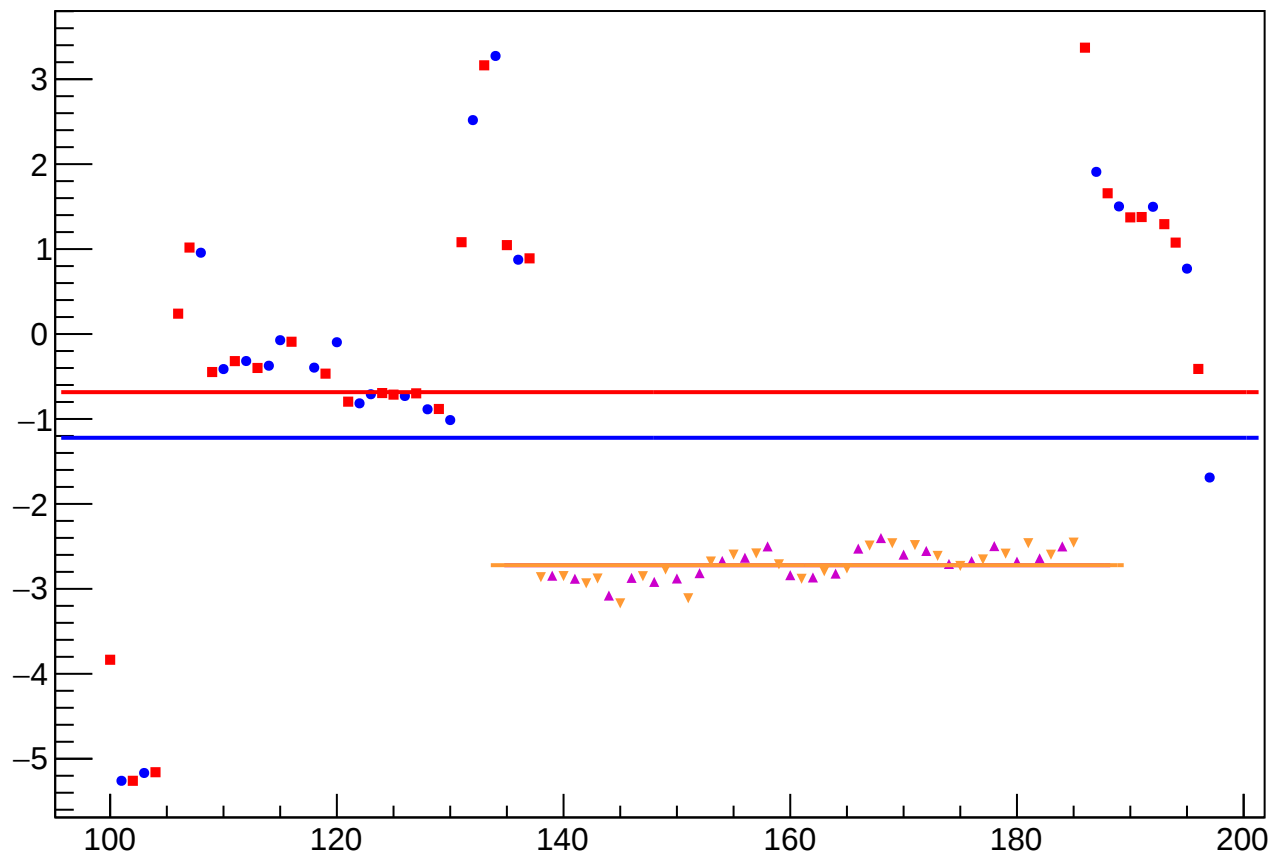
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16489532.3/47

In: 0.012 $\pm$ 0.000 χ^2 /NDF:30195449.5/44

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:32988419.0/50

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 63187642.3/95

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.222+/-0.000 χ^2/NDF : 201426452993.2/21

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.684+/-0.000 χ^2/NDF : 225300667083.1/25

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

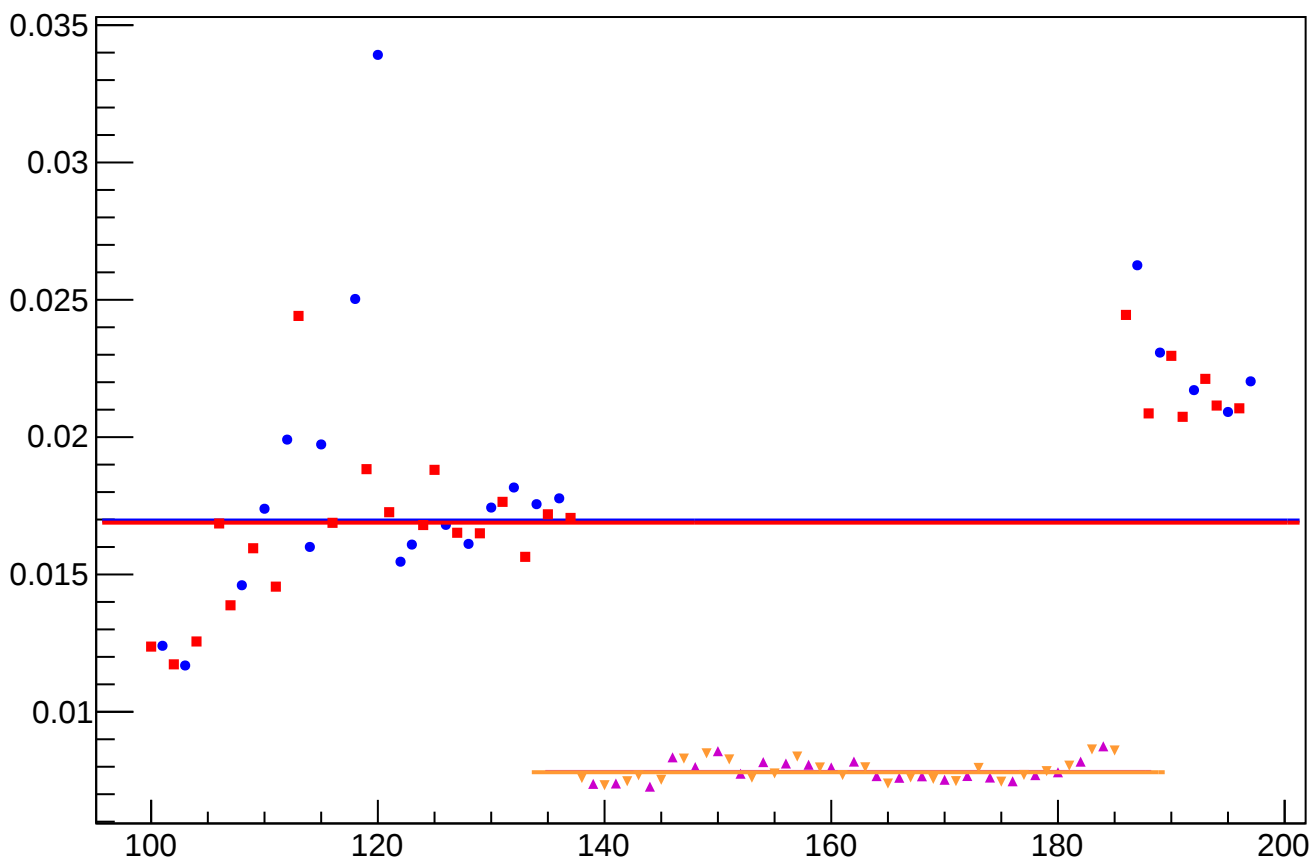
Right: -0.928+/-0.000 χ^2/NDF : 431323696561.9/47

In: -2.578+/-0.000 χ^2/NDF : 268842236365.5/44

Out: -2.502+/-0.000 χ^2/NDF : 365820762781.8/50

All: -2.538+/-0.000 χ^2/NDF : 635568777864.3

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 972867.0/21

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.017+/-0.000 χ^2/NDF : 876293.4/25

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

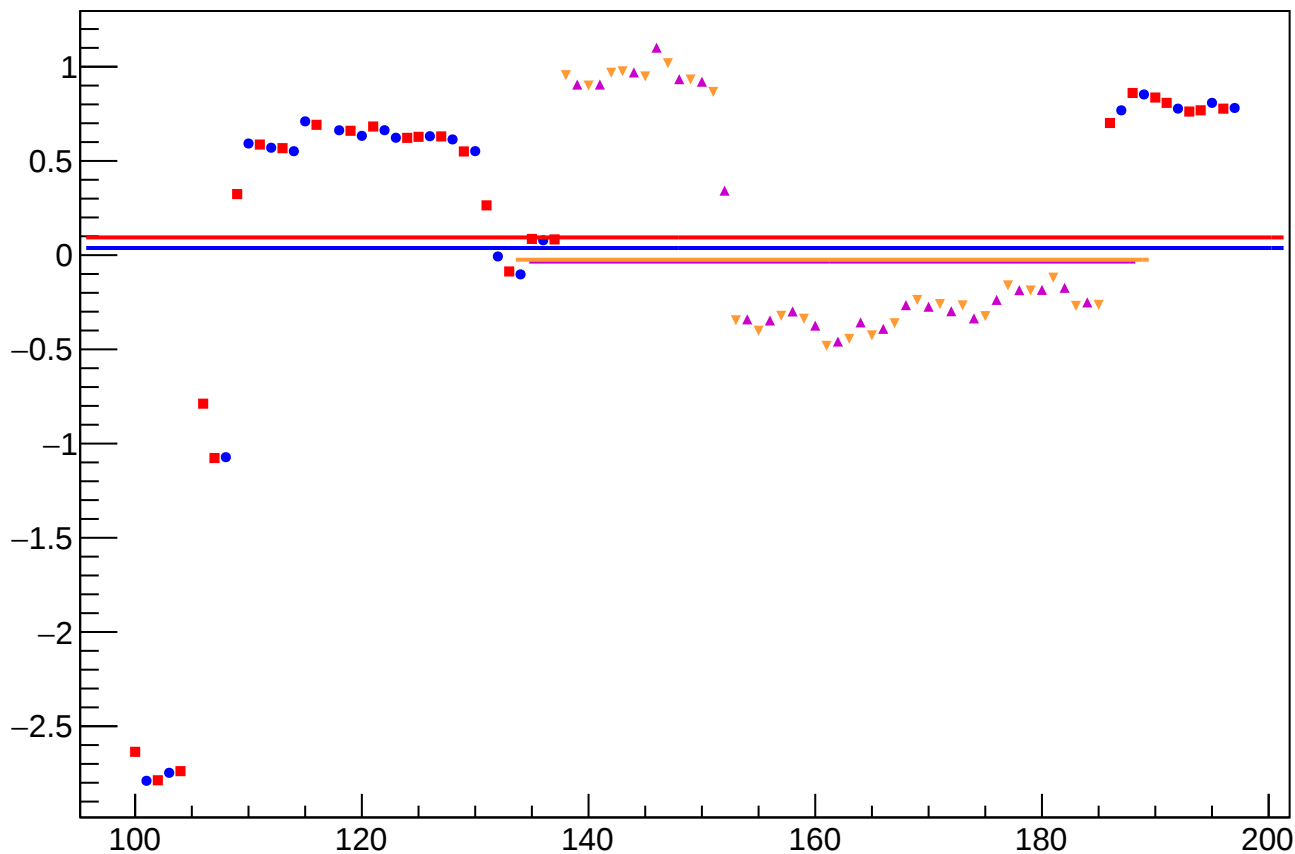
Right: 0.017+/-0.000 χ^2/NDF : 1849351.7/47

In: 0.009+/-0.000 χ^2/NDF : 5452481.6/44

Out: 0.009+/-0.000 χ^2/NDF : 6126454.5/50

All: 0.009+/-0.000 χ^2/NDF : 11581409.9/95

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.038 $\pm$ 0.000 χ^2 /NDF: 800158603881.9/21

Left Out: -0.024 $\pm$ 0.000 χ^2 /NDF:135451649275.0/24

Right Out: 0.094 $\pm$ 0.000 χ^2 /NDF: 874541065799.8/25

Left In: -0.034 $\pm$ 0.000 χ^2 /NDF:113929060918.1/22

Left: -0.029 $\pm$ 0.000 χ^2 /NDF: 249405201350.6/47

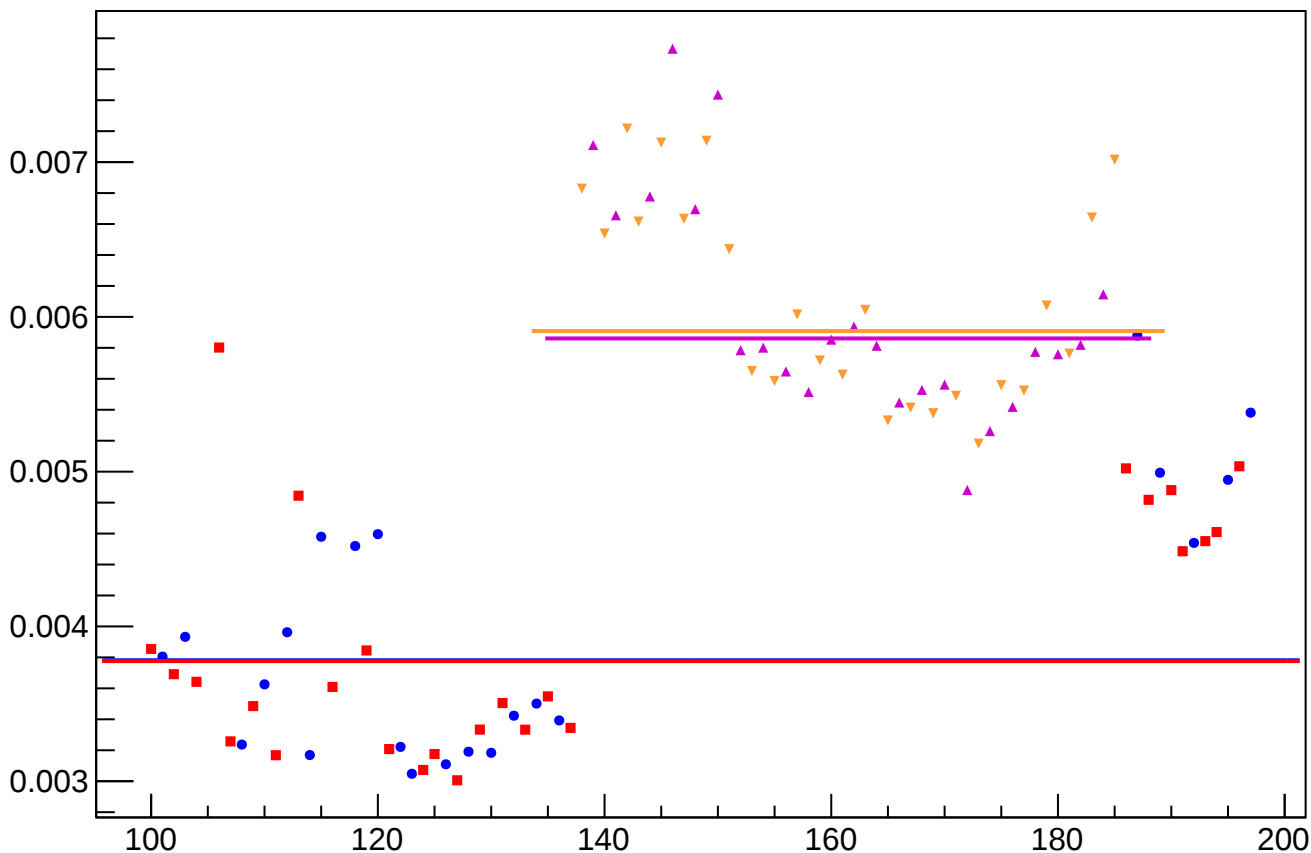
Right: 0.068 $\pm$ 0.000 χ^2 /NDF: 1675769393338.5/47

In: 0.007 $\pm$ 0.000 χ^2 /NDF:915487645637.5/44

Out: 0.047 $\pm$ 0.000 χ^2 /NDF:1014068115319.4/50

All: 0.028 $\pm$ 0.000 χ^2 /NDF: 1930476878976.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 595167.4/21

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 314309.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 681139.7/25

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF: 364512.1/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 679905.3/47

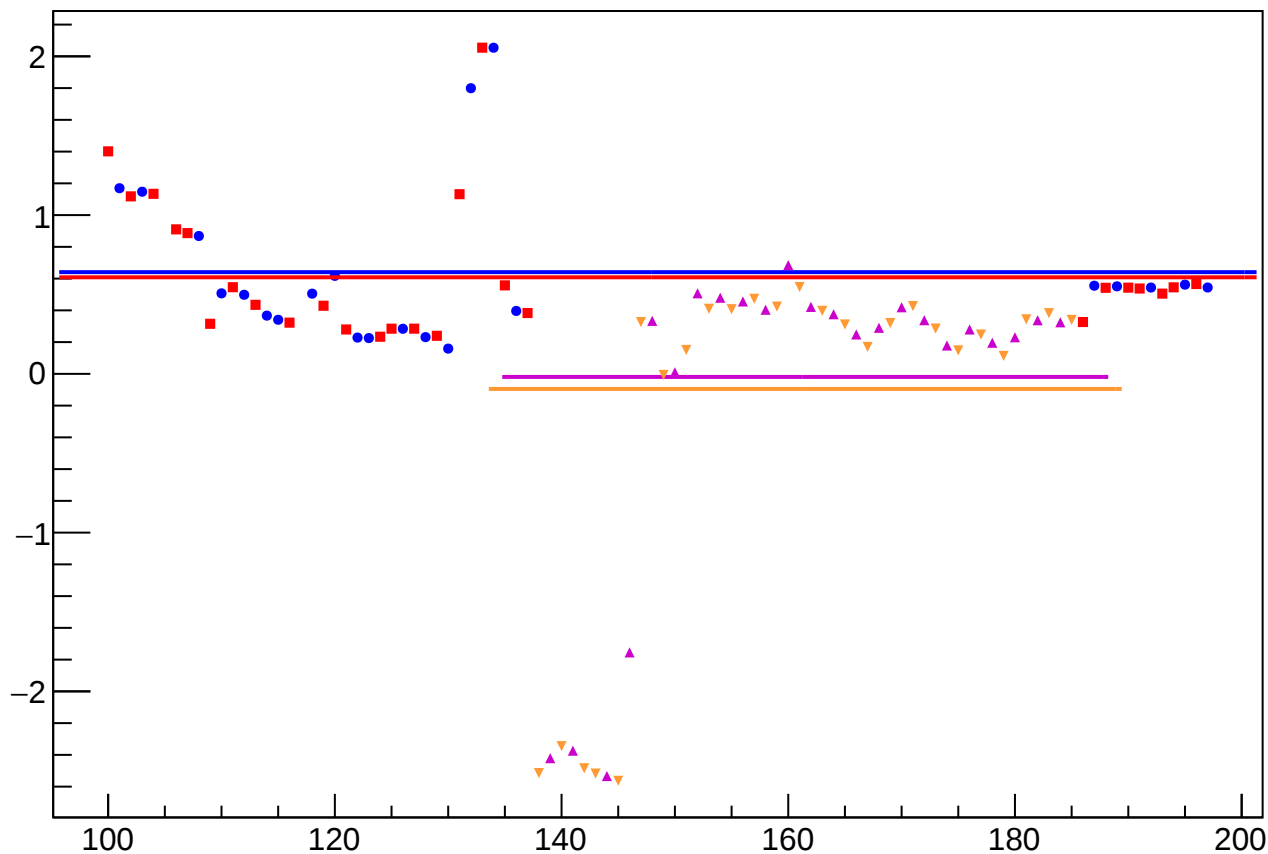
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1276326.4/47

In: 0.005 $\pm$ 0.000 χ^2 /NDF: 3276968.2/44

Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 3646678.2/50

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 6925785.4/95

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.641 $\pm$ 0.000

χ^2/NDF : 38983423990.3/21

Left: -0.058 $\pm$ 0.000

χ^2/NDF : 924153662333.7/47

Right: 0.622 $\pm$ 0.000

χ^2/NDF : 84432338008.3/47

Left Out: -0.095 $\pm$ 0.000

χ^2/NDF : 505606573631.9/24

In: 0.288 $\pm$ 0.000

χ^2/NDF : 556190980378.5/44

Right Out: 0.608 $\pm$ 0.000

χ^2/NDF : 45194351922.9/25

Out: 0.270 $\pm$ 0.000

χ^2/NDF : 683059755229.3/50

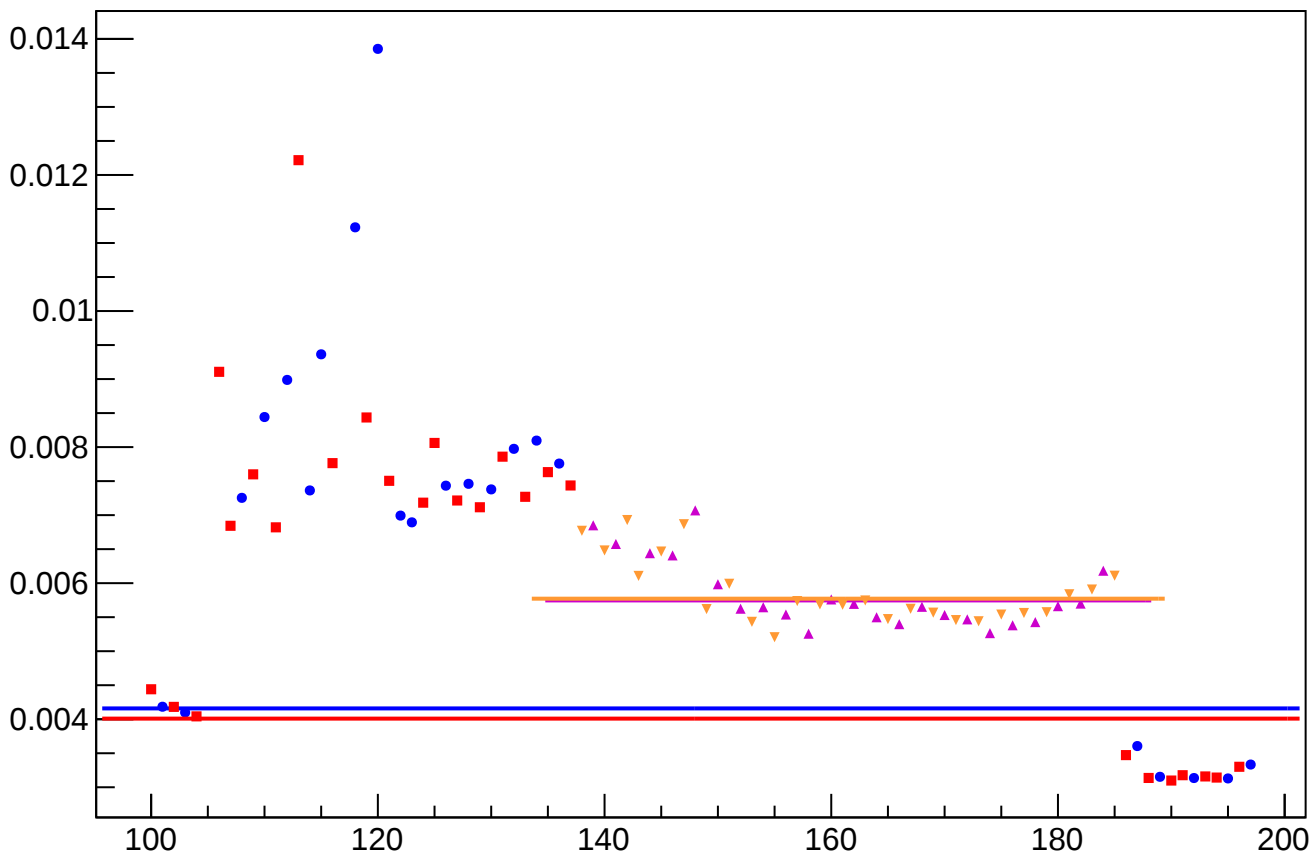
Left In: -0.019 $\pm$ 0.000

χ^2/NDF : 417104863944.5/22

All: 0.278 $\pm$ 0.000

χ^2/NDF : 1239411737821.0

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2900051.3/21

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 2993725.9/25

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

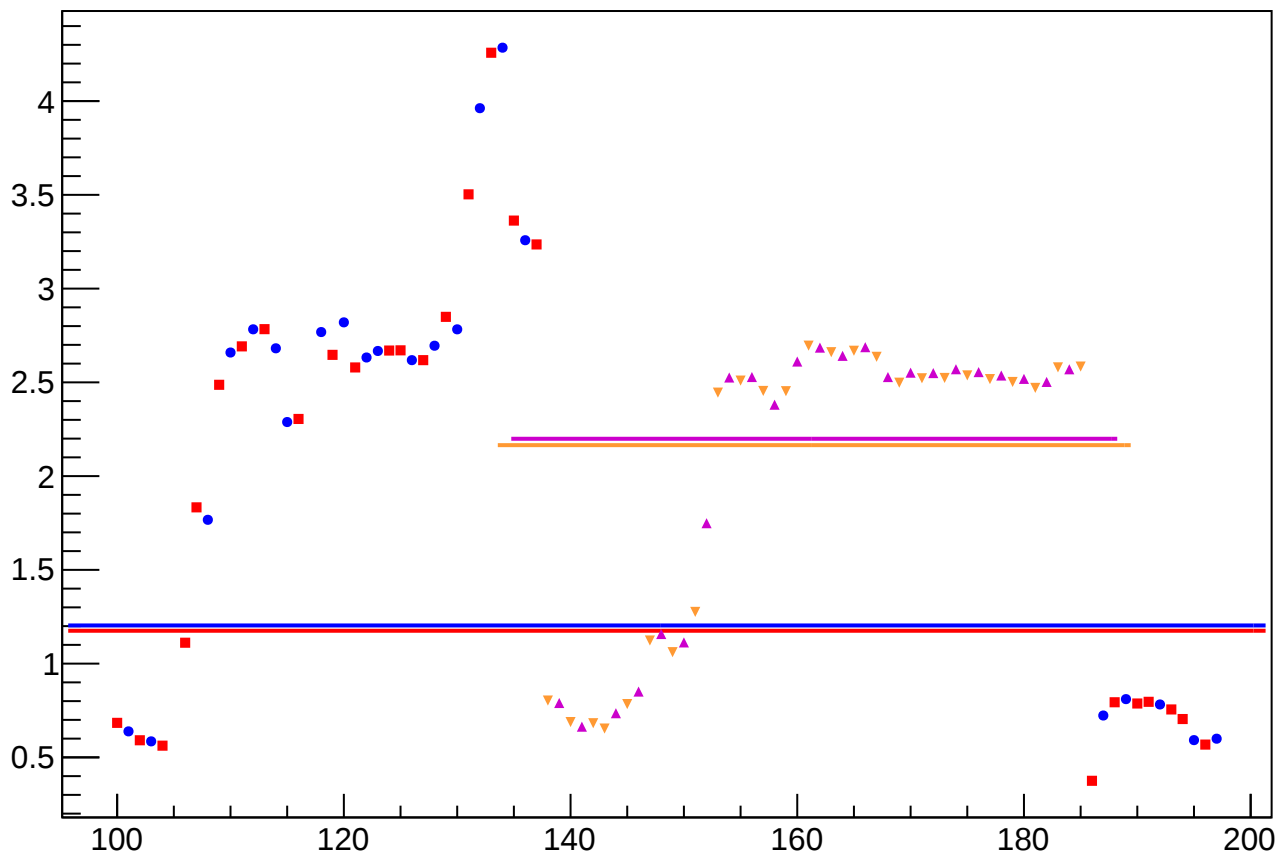
Right: 0.004+/-0.000 χ^2/NDF : 5904682.5/47

In: 0.005+/-0.000 χ^2/NDF :4262773.5/44

Out: 0.005+/-0.000 χ^2/NDF :4834272.3/50

All: 0.005+/-0.000 χ^2/NDF : 9119413.1/95

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.204 $\pm$ 0.000 χ^2 /NDF: 257812457650.3/21

Left Out: 2.165 $\pm$ 0.000 χ^2 /NDF: 292800056899.6/24

Right Out: 1.175 $\pm$ 0.000 χ^2 /NDF: 309692367706.0/25

Left In: 2.199 $\pm$ 0.000 χ^2 /NDF: 253166239065.4/22

Left: 2.182 $\pm$ 0.000 χ^2 /NDF: 546302258971.9/47

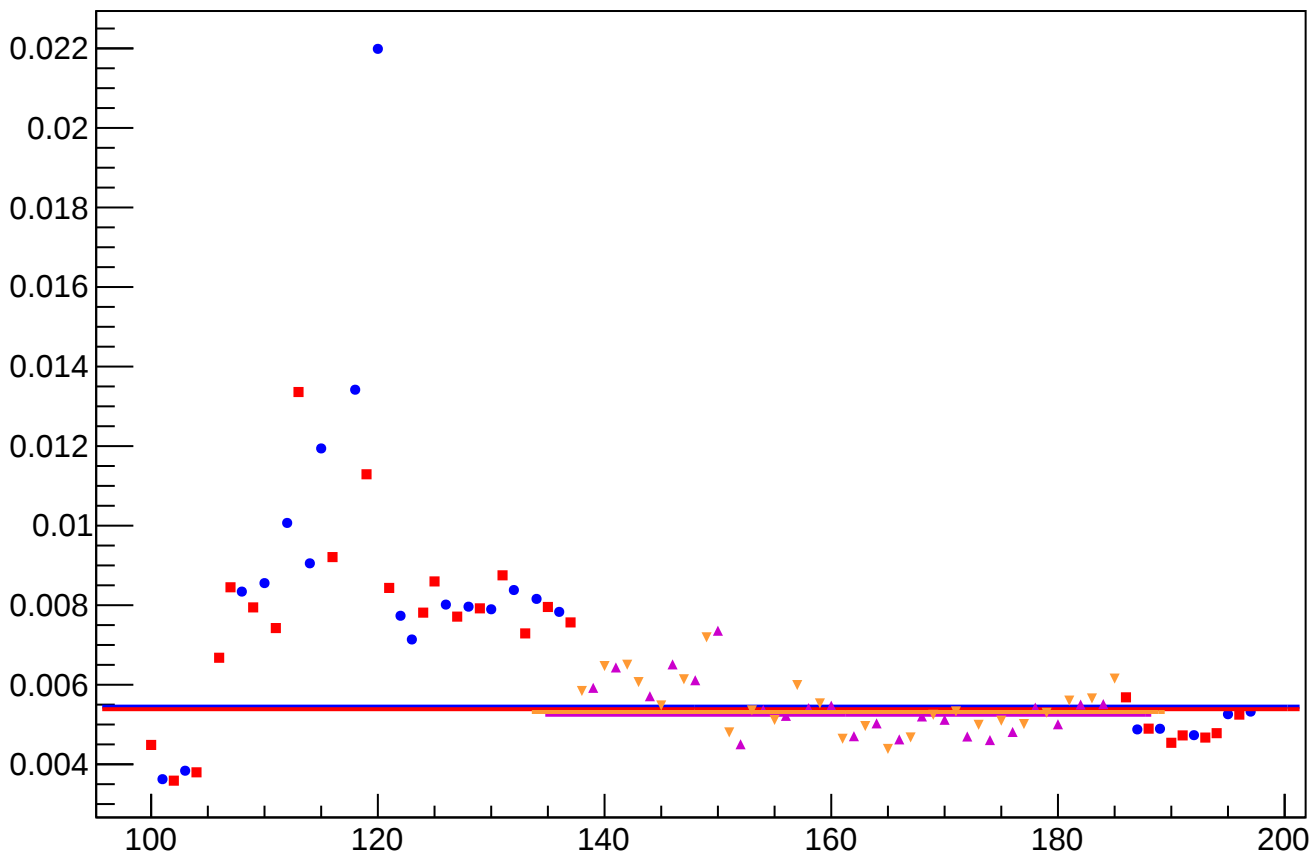
Right: 1.188 $\pm$ 0.000 χ^2 /NDF: 567619391180.9/47

In: 1.888 $\pm$ 0.000 χ^2 /NDF: 688063676072.8/44

Out: 1.815 $\pm$ 0.000 χ^2 /NDF: 805769390566.7/50

All: 1.850 $\pm$ 0.000 χ^2 /NDF: 1496144391372.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2004301.1/21

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1875931.8/25

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

Right: 0.005+/-0.000 χ^2/NDF : 3881432.5/47

In: 0.005+/-0.000 χ^2/NDF : 2445080.0/44

Out: 0.005+/-0.000 χ^2/NDF : 2276758.6/50

All: 0.005+/-0.000 χ^2/NDF : 4722654.0/95

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.894 $\pm$ 0.000 χ^2 /NDF: 51810397557.4/21

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.794 $\pm$ 0.000 χ^2 /NDF: 51199147771.6/25

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

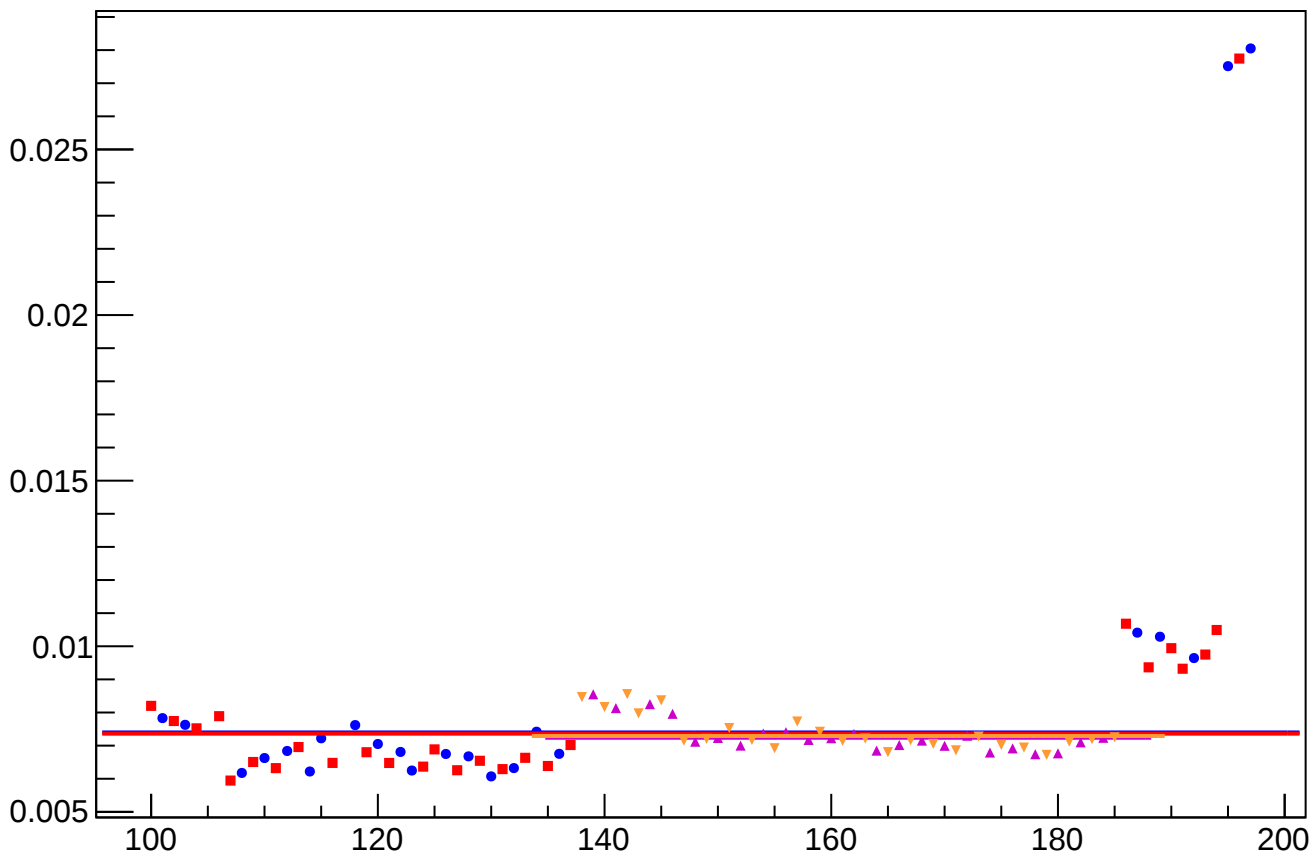
Right: 1.839 $\pm$ 0.000 χ^2 /NDF: 103837198811.7/47

In: 2.334 $\pm$ 0.000 χ^2 /NDF: 141415089803.1/44

Out: 2.250 $\pm$ 0.000 χ^2 /NDF: 164043688973.0/50

All: 2.290 $\pm$ 0.000 χ^2 /NDF: 307222068161.1

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 2029951.9/21

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1502009.3/25

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

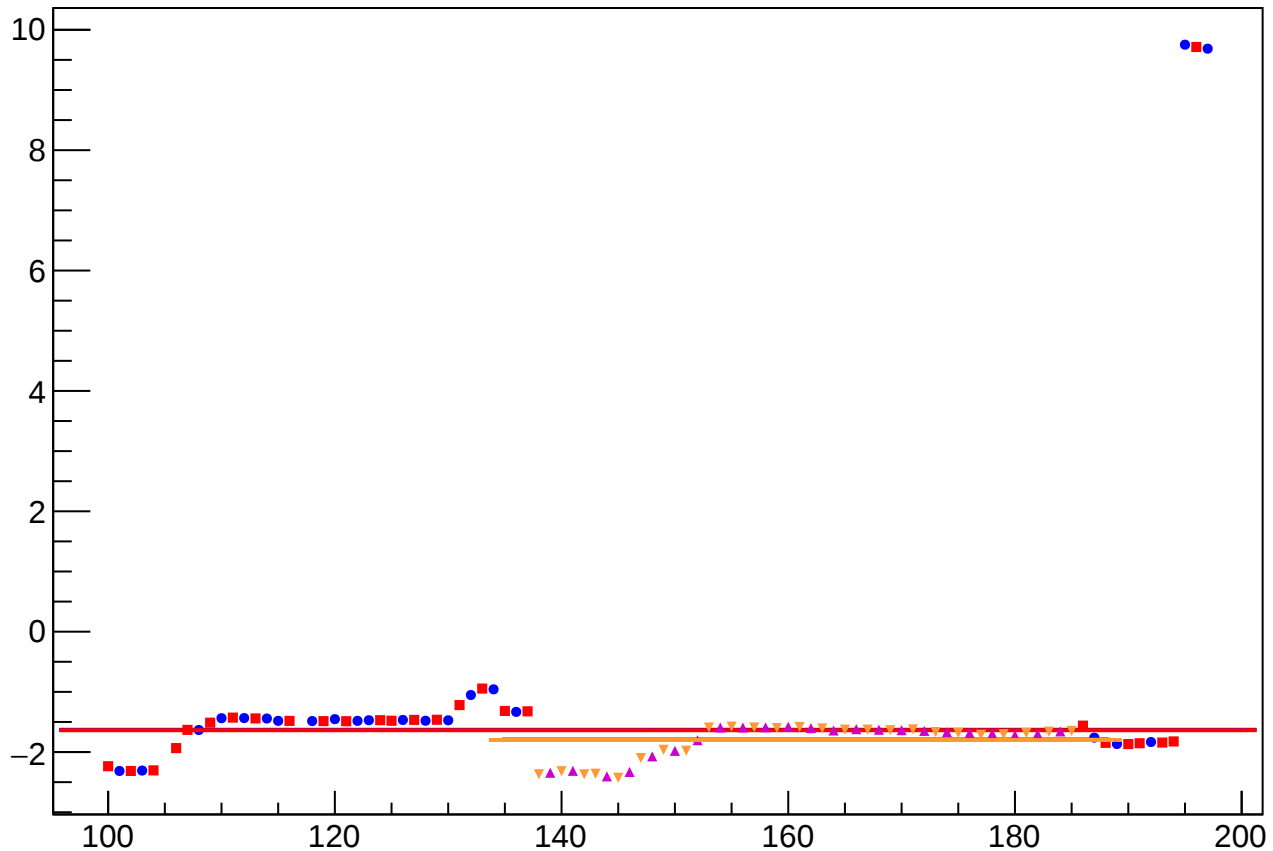
Right: 0.007+/-0.000 χ^2/NDF : 3532179.2/47

In: 0.007+/-0.000 χ^2/NDF :2160460.8/44

Out: 0.007+/-0.000 χ^2/NDF :1643969.2/50

All: 0.007+/-0.000 χ^2/NDF : 3804783.2/95

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.630+/-0.000 χ^2/NDF : 200266475207.5/21

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.637+/-0.000 χ^2/NDF : 185652356273.6/25

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

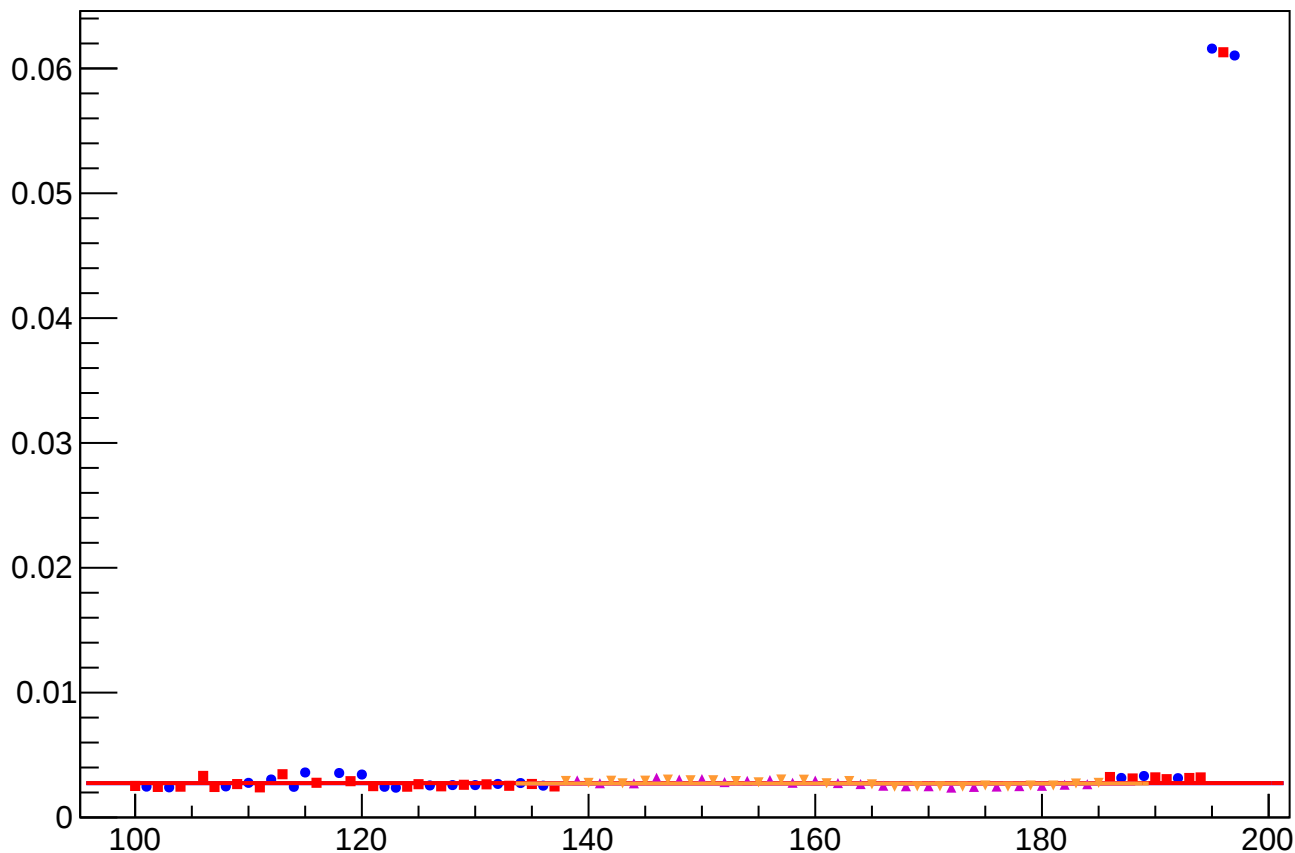
Right: -1.634+/-0.000 χ^2/NDF : 385946891499.8/47

In: -1.740+/-0.000 χ^2/NDF : 378192074959.0/44

Out: -1.742+/-0.000 χ^2/NDF : 392841177014.3/50

All: -1.741+/-0.000 χ^2/NDF : 771040155335.9

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3063397.6/21

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 1687616.2/25

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

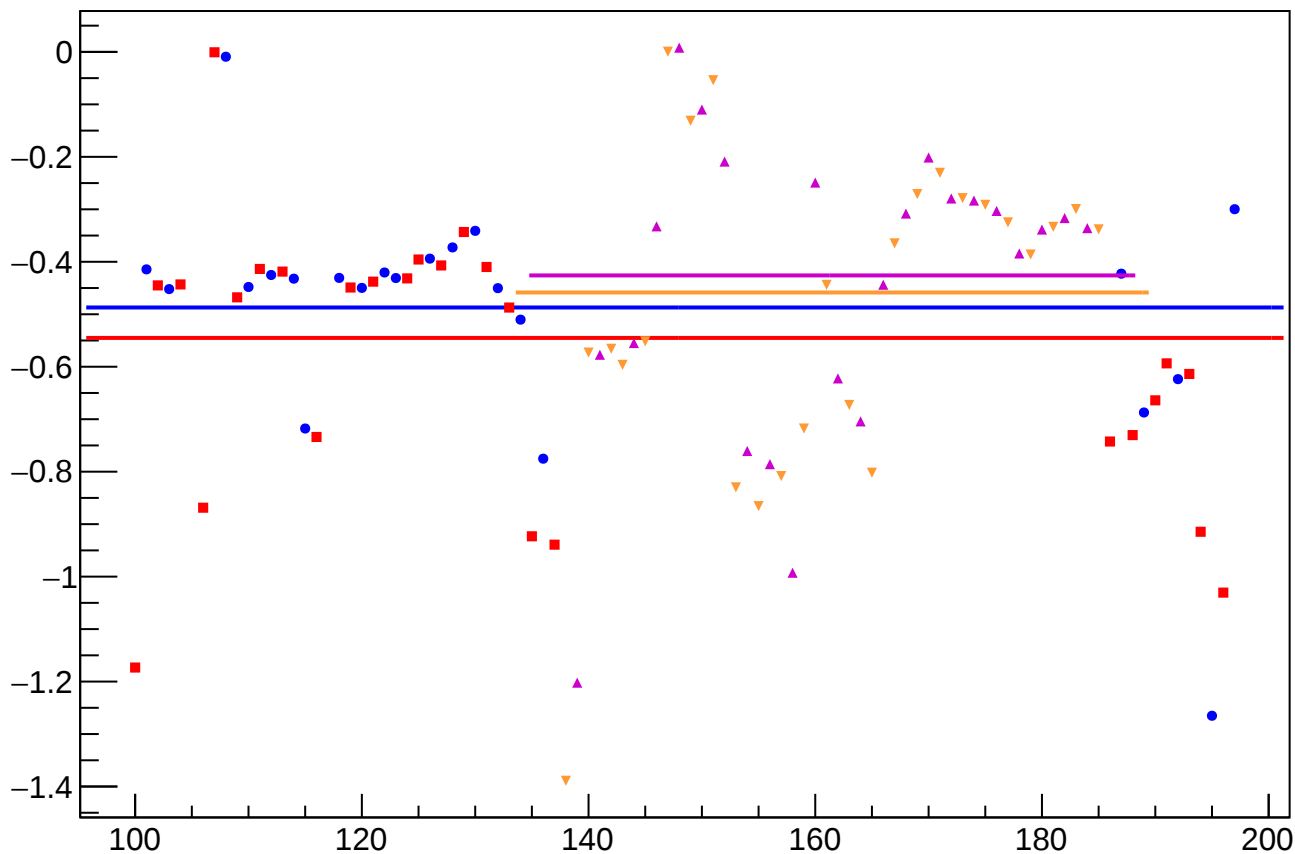
Right: 0.003+/-0.000 χ^2/NDF : 4751142.0/47

In: 0.003+/-0.000 χ^2/NDF :3286268.9/44

Out: 0.003+/-0.000 χ^2/NDF :1889406.8/50

All: 0.003+/-0.000 χ^2/NDF : 5176625.7/95

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.487 ± 0.000 $\chi^2/\text{NDF}: 3448362454.2/21$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.545 ± 0.000 $\chi^2/\text{NDF}: 4126044985.5/25$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

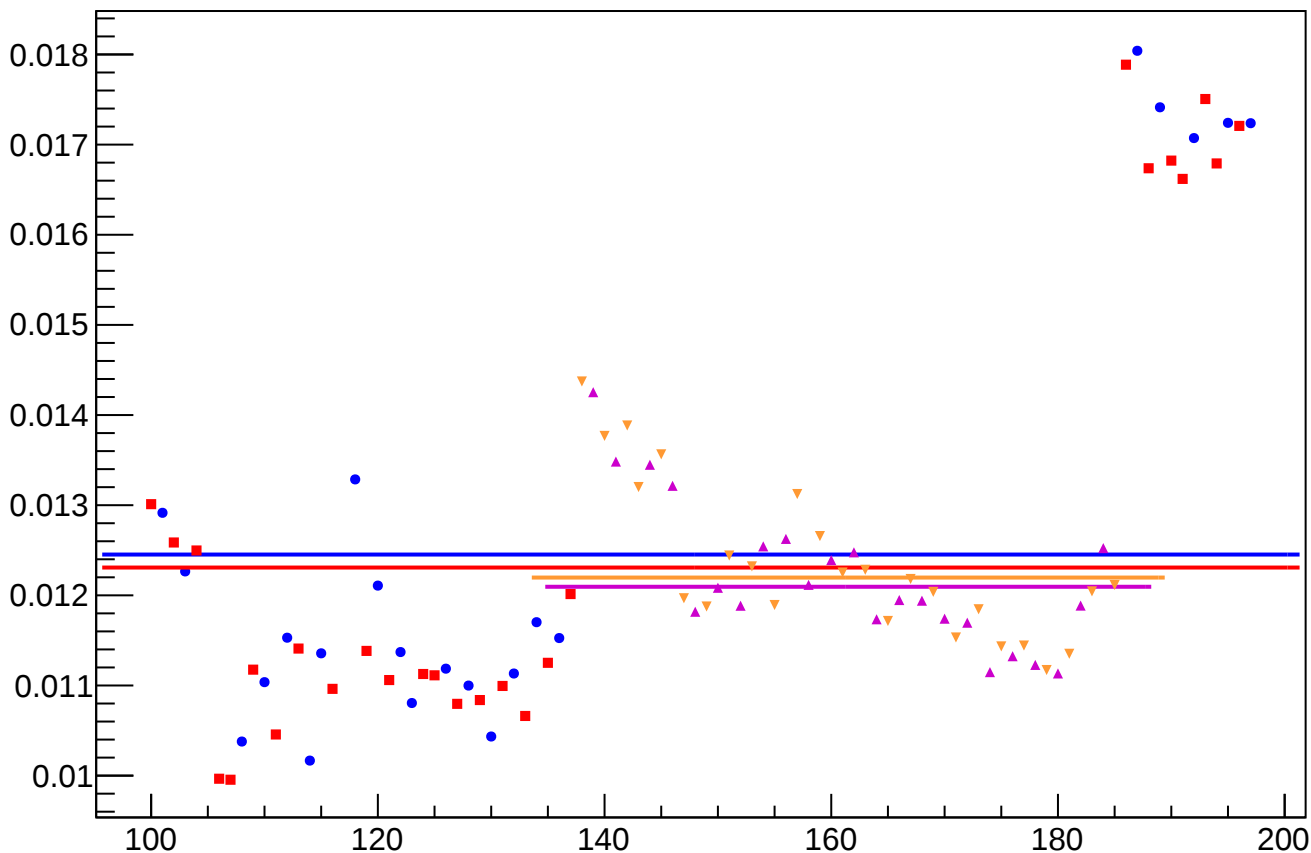
Right: -0.519 ± 0.000 $\chi^2/\text{NDF}: 7682667689.3/47$

In: -0.447 ± 0.000 $\chi^2/\text{NDF}: 12017913282.8/44$

Out: -0.491 ± 0.000 $\chi^2/\text{NDF}: 14373040842.3/50$

All: -0.470 ± 0.000 $\chi^2/\text{NDF}: 26564654636.3/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 629986.6/21

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:141850.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 866707.5/25

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:127308.3/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 270367.5/47

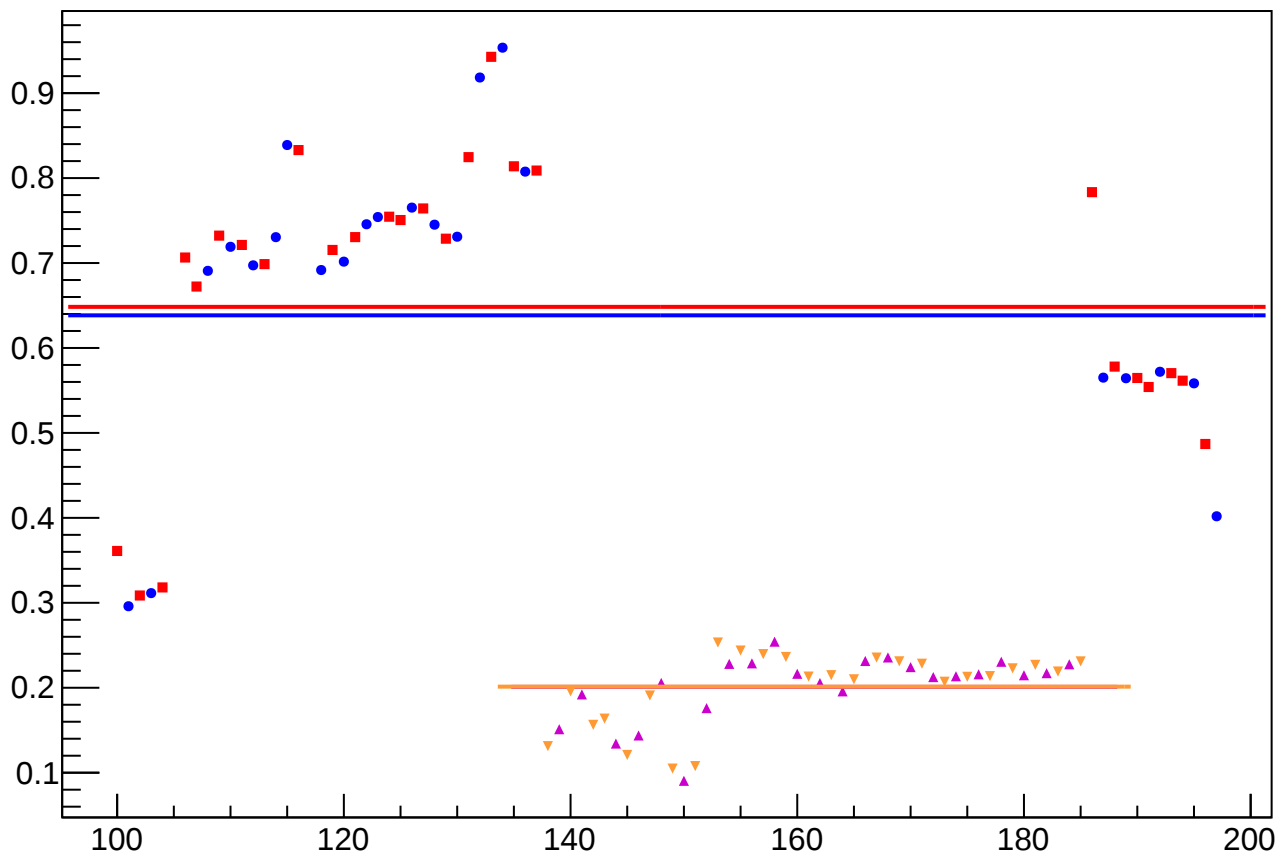
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 1498032.5/47

In: 0.012 $\pm$ 0.000 χ^2 /NDF:767243.4/44

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1009646.7/50

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 1776969.6/95

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.638 $\pm$ 0.000 χ^2/NDF : 46079215134.9/21

Left Out: 0.201 $\pm$ 0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.648 $\pm$ 0.000 χ^2/NDF : 42961713603.2/25

Left In: 0.201 $\pm$ 0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2/NDF : 12762673178.0/47

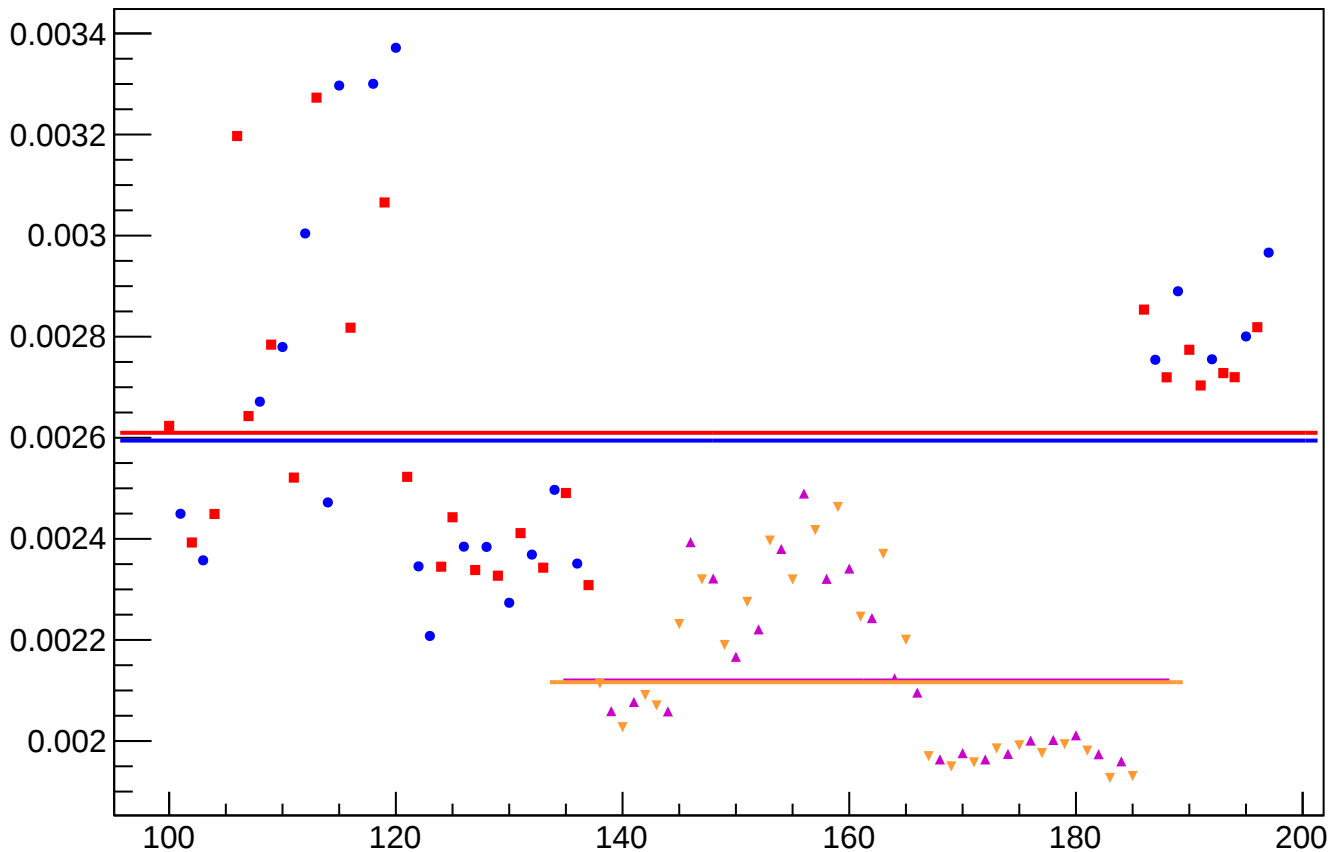
Right: 0.644 $\pm$ 0.000 χ^2/NDF : 89114717621.2/47

In: 0.318 $\pm$ 0.000 χ^2/NDF : 245849308400.6/44

Out: 0.327 $\pm$ 0.000 χ^2/NDF : 277573039095.5/50

All: 0.322 $\pm$ 0.000 χ^2/NDF : 523666658277.0

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 237351.2/21

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 168427.9/25

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

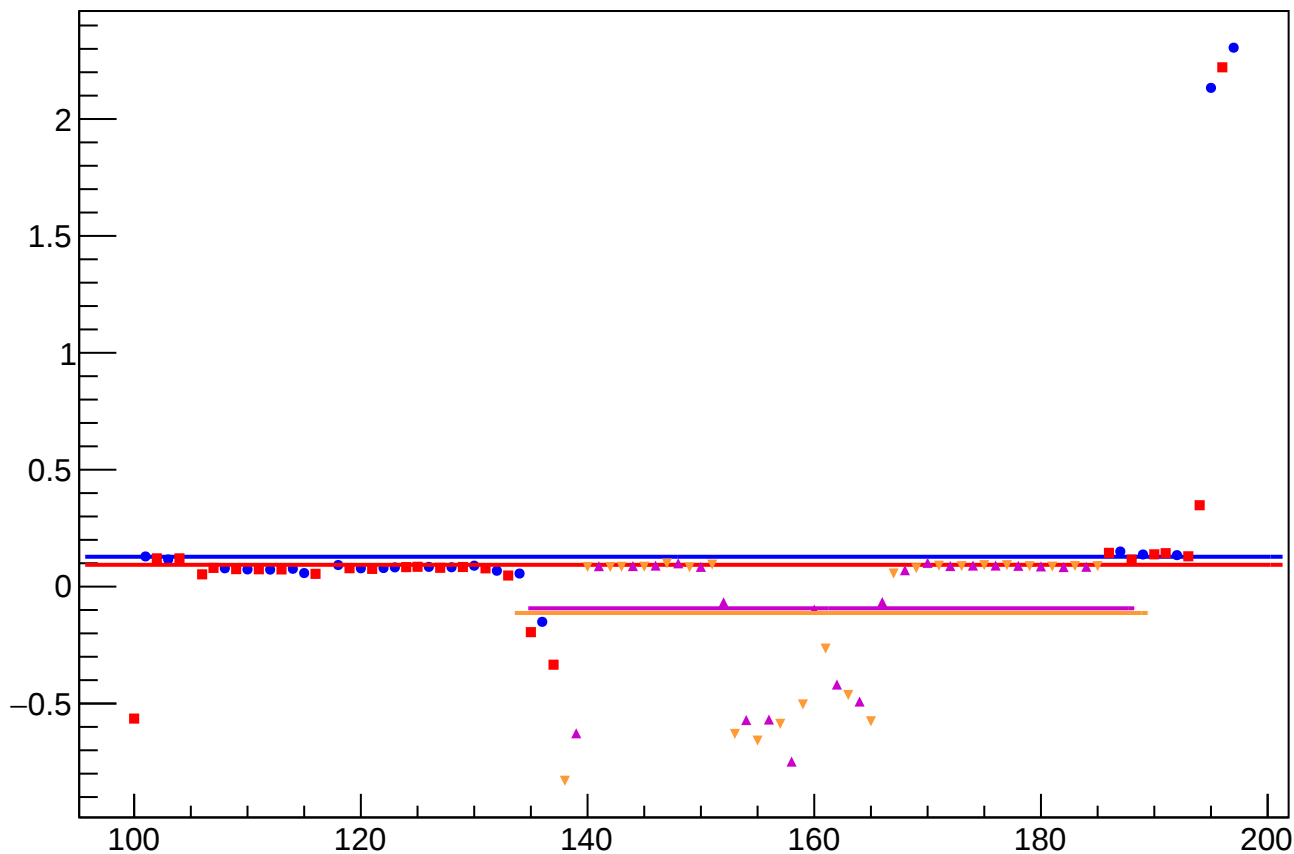
Right: 0.003+/-0.000 χ^2/NDF : 406128.7/47

In: 0.002+/-0.000 χ^2/NDF :883827.6/44

Out: 0.002+/-0.000 χ^2/NDF :947235.6/50

All: 0.002+/-0.000 χ^2/NDF : 1831495.3/95

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.128+/-0.000

χ^2/NDF : 10891127330.2/21

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.109+/-0.000

χ^2/NDF : 17367482685.1/47

Right Out: 0.093+/-0.000

χ^2/NDF : 6427261867.1/25

In: -0.015+/-0.000

χ^2/NDF : 24320490575.3/44

Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

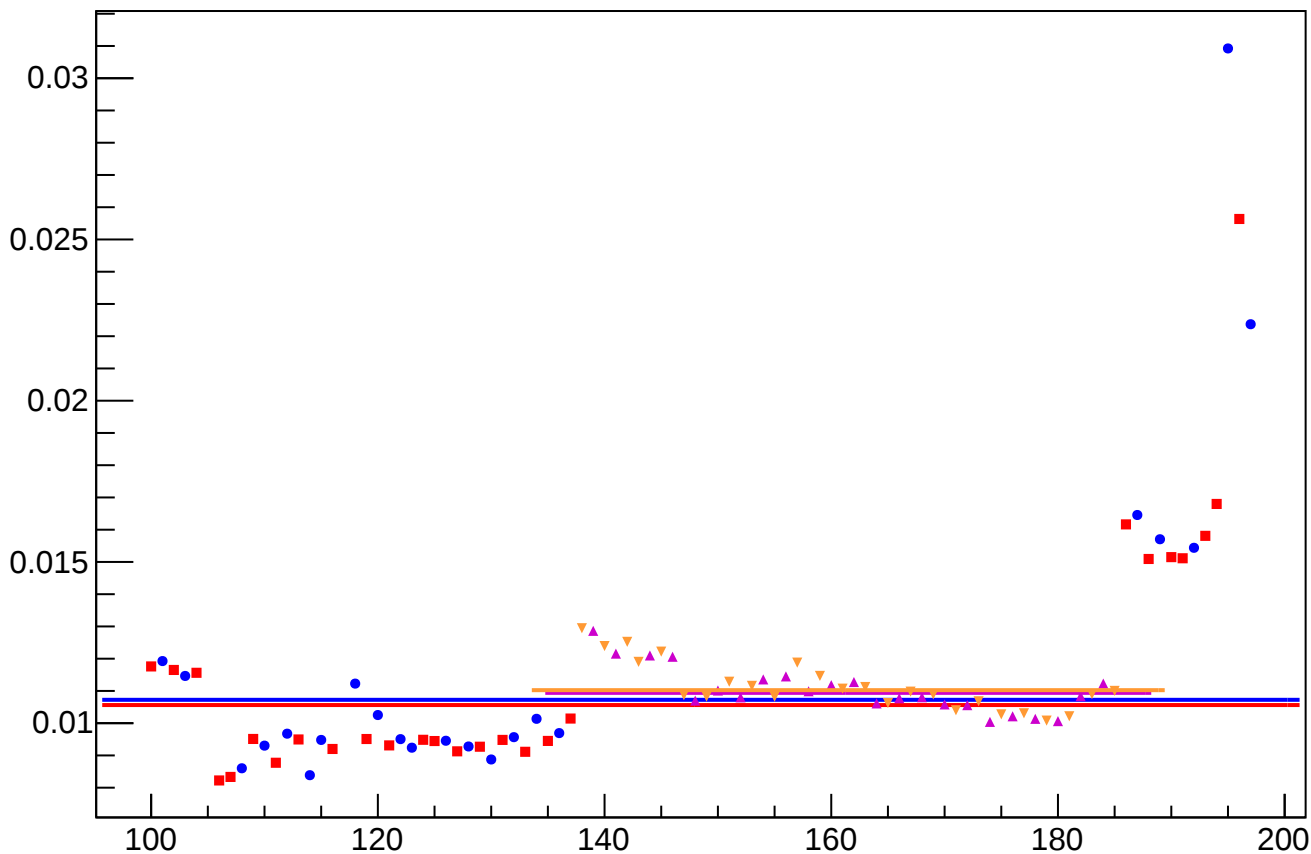
Out: -0.033+/-0.000

χ^2/NDF : 22479339723.7/50

All: -0.024+/-0.000

χ^2/NDF : 46836061625.1/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1627115.1/21

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1555564.7/25

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

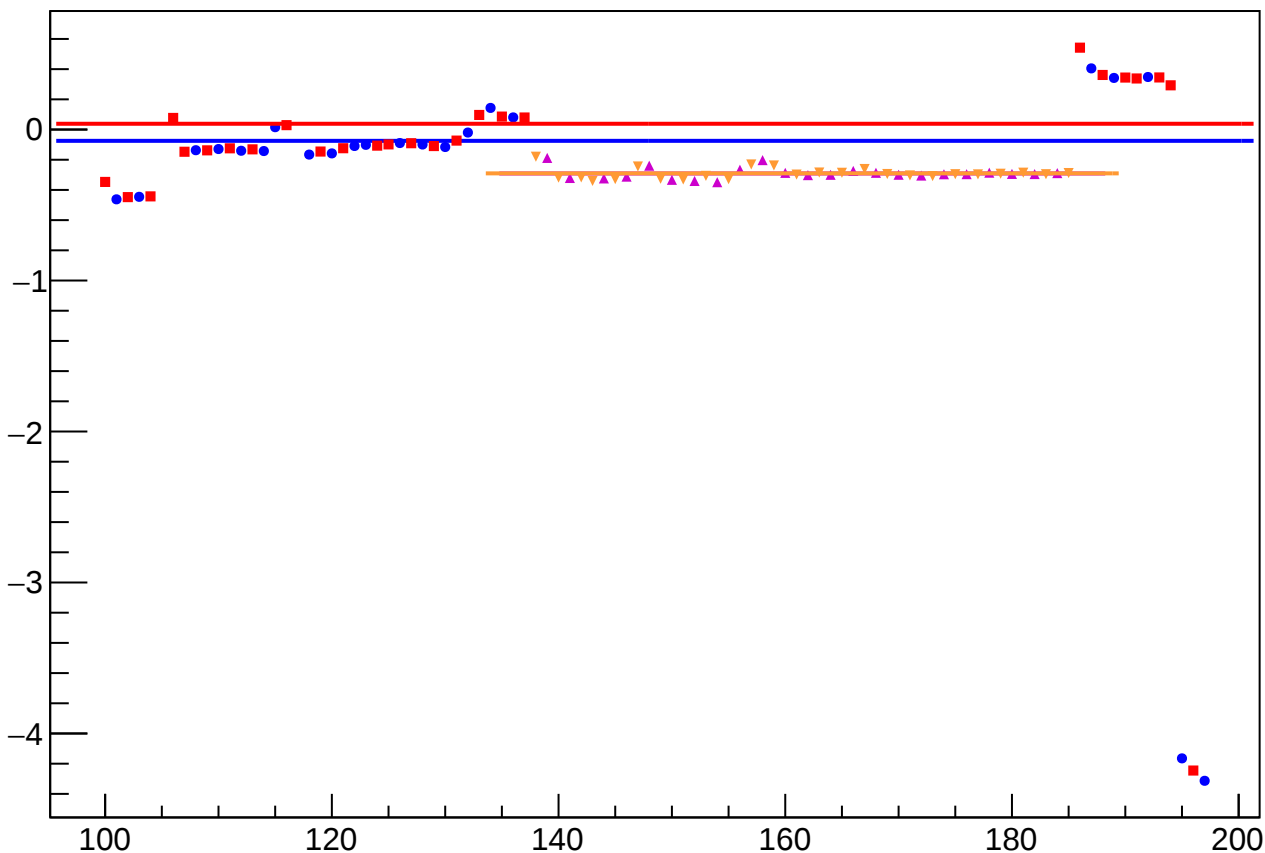
Right: 0.011+/-0.000 χ^2/NDF : 3184863.6/47

In: 0.011+/-0.000 χ^2/NDF :1760588.7/44

Out: 0.011+/-0.000 χ^2/NDF :1720982.7/50

All: 0.011+/-0.000 χ^2/NDF : 3481656.4/95

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.075+/-0.000 χ^2/NDF : 90518623233.2/21

Left Out: -0.290+/-0.000 χ^2/NDF : 2877519093.0/24

Right Out: 0.038+/-0.000 χ^2/NDF : 77035770966.4/25

Left In: -0.291+/-0.000 χ^2/NDF : 3125402243.3/22

Left: -0.291+/-0.000 χ^2/NDF : 6003615293.4/47

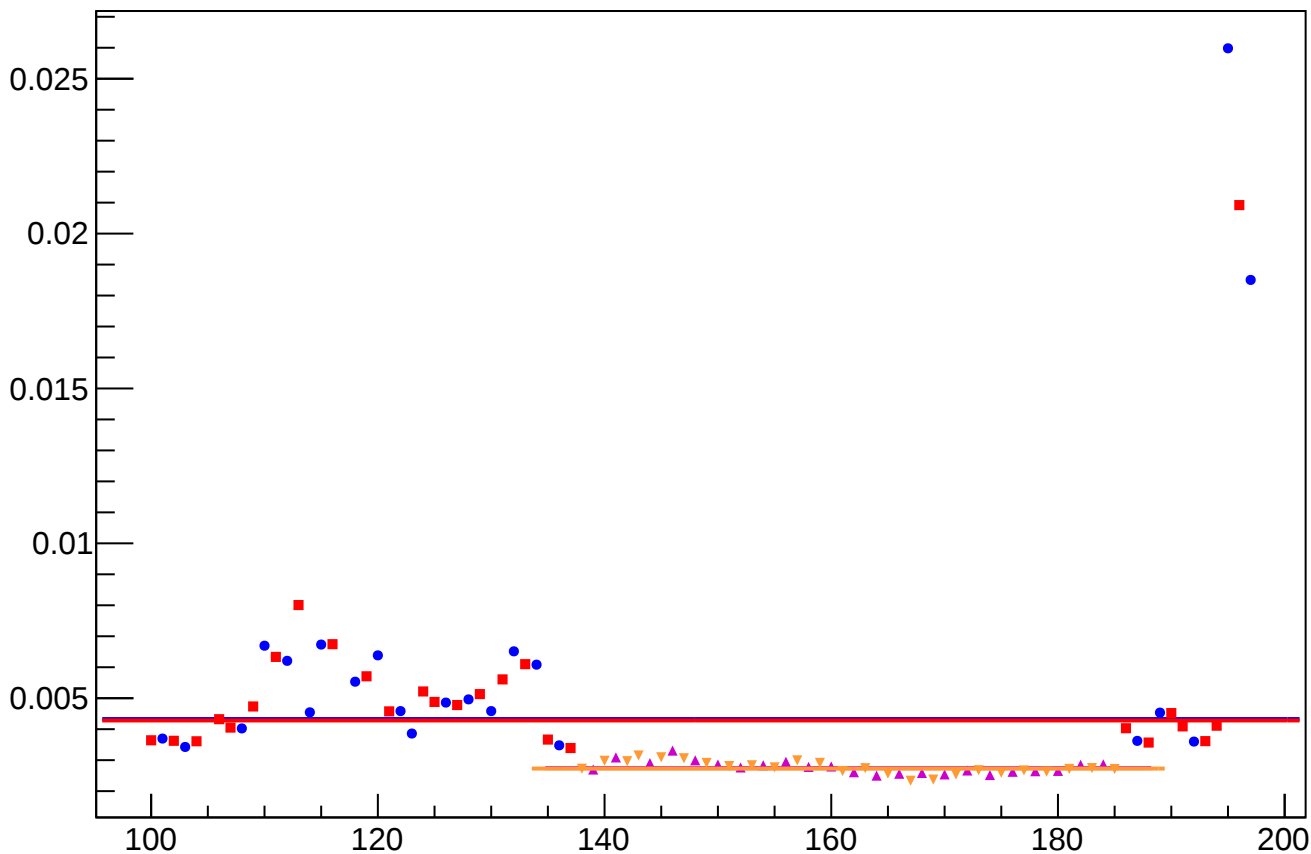
Right: -0.012+/-0.000 χ^2/NDF : 170500946770.2/47

In: -0.257+/-0.000 χ^2/NDF : 109939694776.8/44

Out: -0.231+/-0.000 χ^2/NDF : 125817852772.8/50

All: -0.243+/-0.000 χ^2/NDF : 236662619040.5

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2682715.6/21

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1743979.1/25

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

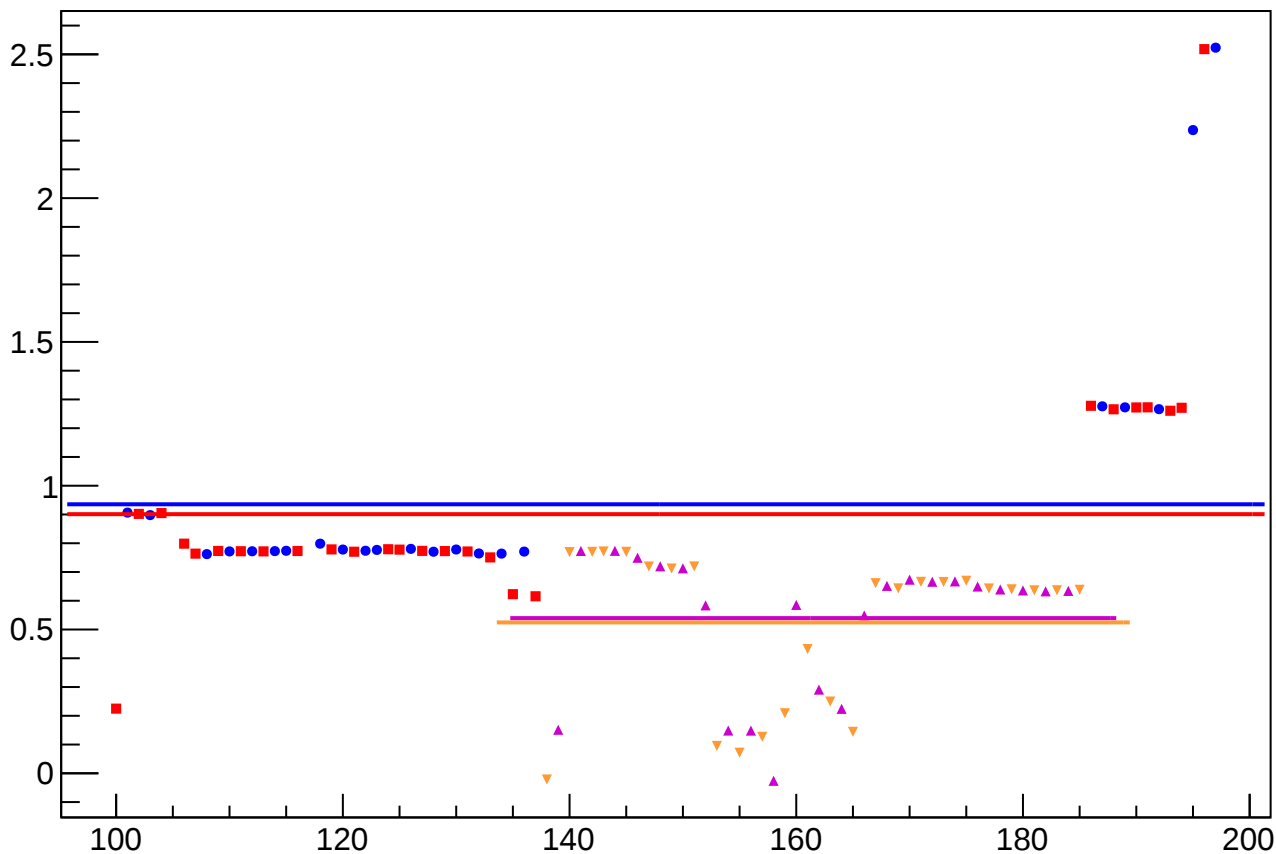
Right: 0.004+/-0.000 χ^2/NDF : 4427611.3/47

In: 0.003+/-0.000 χ^2/NDF :4580851.3/44

Out: 0.003+/-0.000 χ^2/NDF :4003440.6/50

All: 0.003+/-0.000 χ^2/NDF : 8584915.0/95

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.935 $\pm$ 0.000 χ^2 /NDF: 10674819401.3/21

Left Out: 0.525 $\pm$ 0.000 χ^2 /NDF: 9623503169.9/24

Right Out: 0.901 $\pm$ 0.000 χ^2 /NDF: 8001848011.6/25

Left In: 0.540 $\pm$ 0.000 χ^2 /NDF: 7860539135.5/22

Left: 0.532 $\pm$ 0.000 χ^2 /NDF: 17500739852.2/47

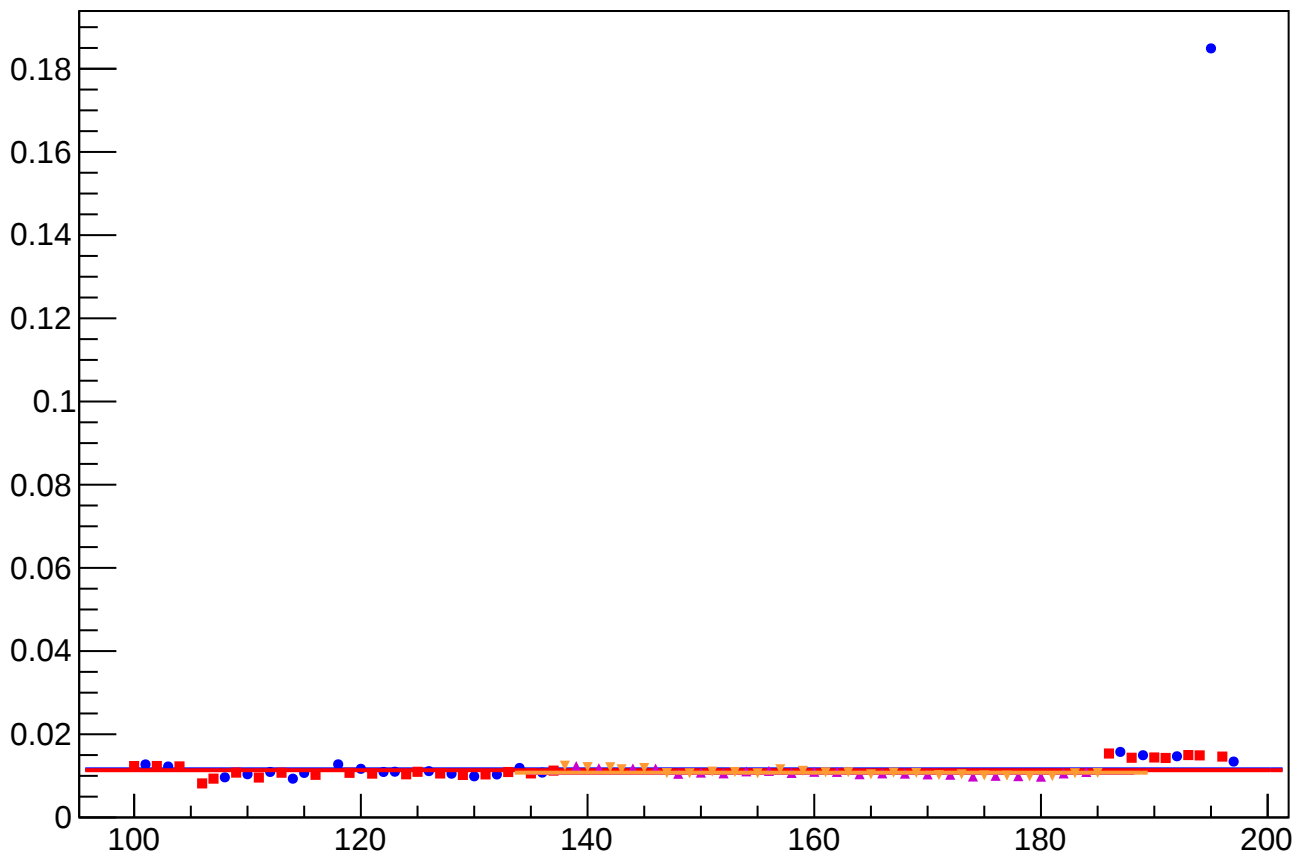
Right: 0.916 $\pm$ 0.000 χ^2 /NDF: 18718350785.4/47

In: 0.660 $\pm$ 0.000 χ^2 /NDF: 25494293433.7/44

Out: 0.653 $\pm$ 0.000 χ^2 /NDF: 24985342217.5/50

All: 0.656 $\pm$ 0.000 χ^2 /NDF: 50485347956.1/95

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1788236.2/21

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:131630.9/24

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 582457.1/25

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:119273.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 251802.6/47

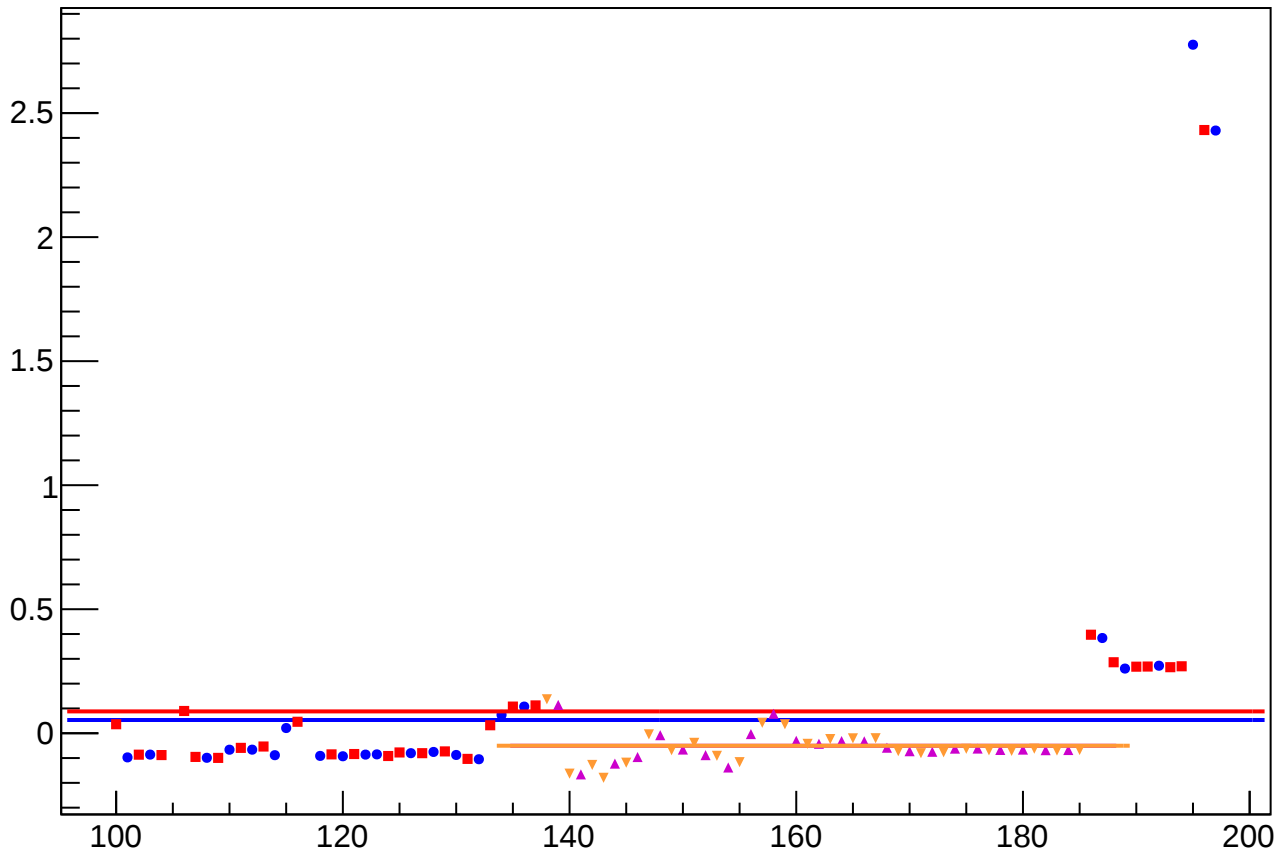
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 2373676.2/47

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1975277.8/44

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:750274.5/50

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 2725588.6/95

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 29634672054.4/21

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.088+/-0.000 χ^2/NDF : 22477366777.3/25

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

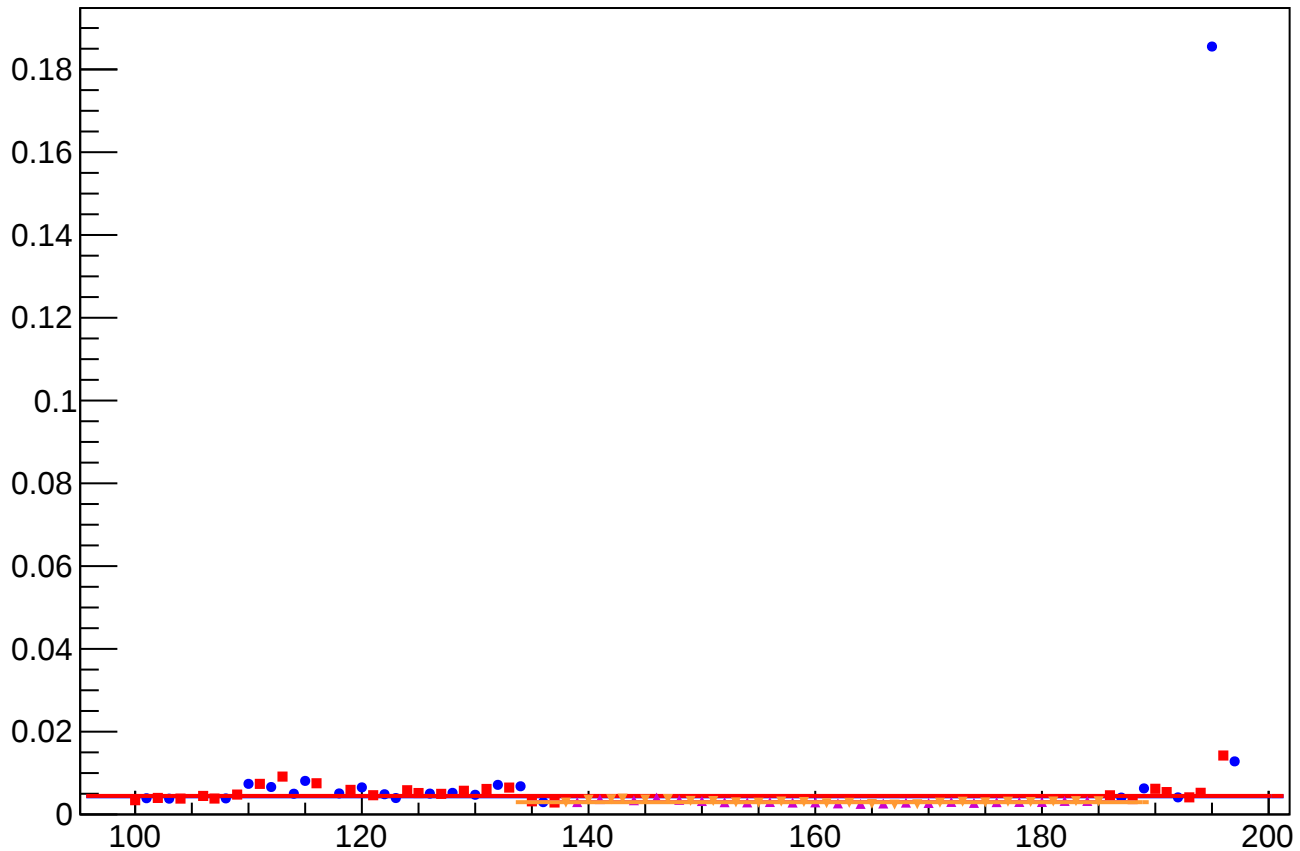
Right: 0.072+/-0.000 χ^2/NDF : 52356894464.2/47

In: -0.032+/-0.000 χ^2/NDF : 39134581528.5/44

Out: -0.025+/-0.000 χ^2/NDF : 36648664553.1/50

All: -0.028+/-0.000 χ^2/NDF : 75851146111.9/100

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3118321.4/21

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1483630.1/25

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

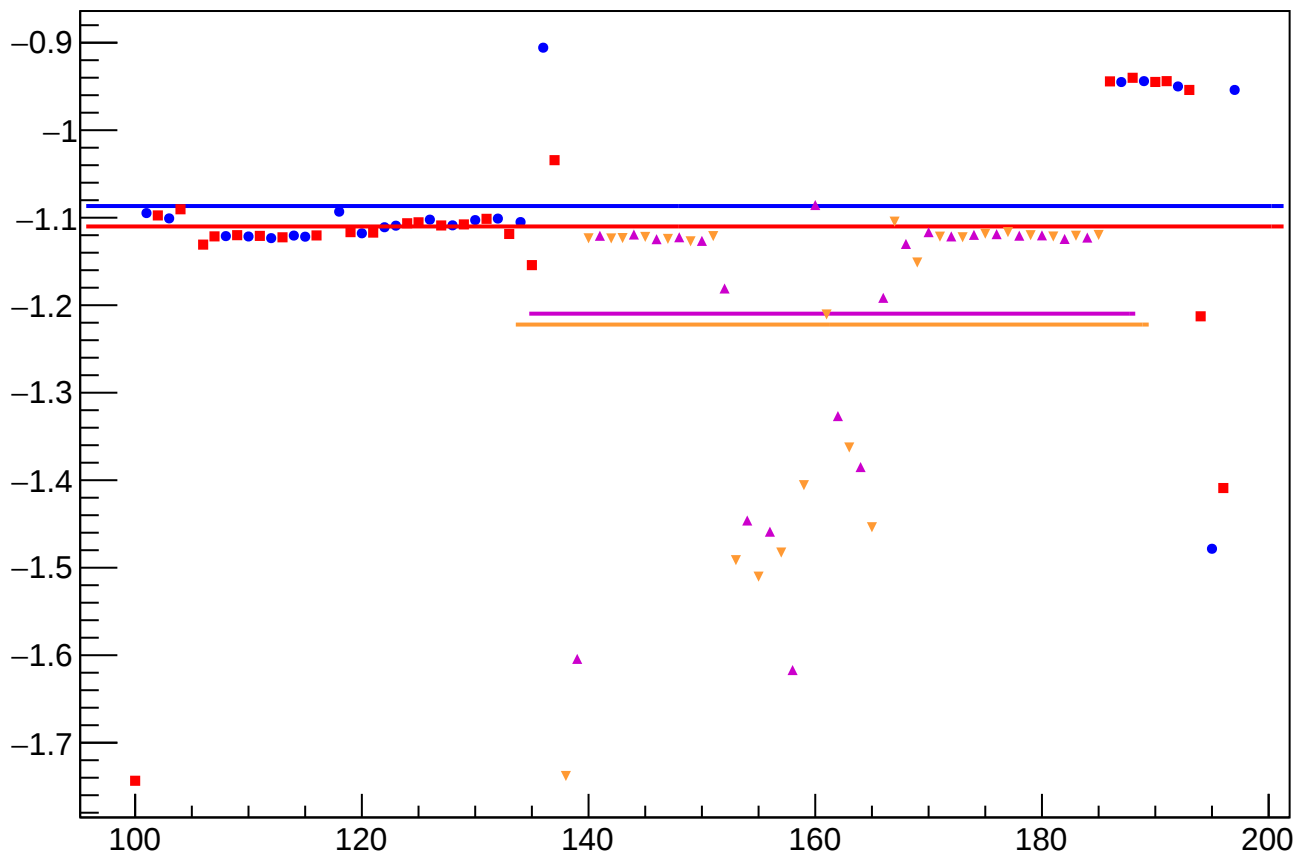
Right: 0.004+/-0.000 χ^2/NDF : 4606409.4/47

In: 0.003+/-0.000 χ^2/NDF : 4613429.9/44

Out: 0.003+/-0.000 χ^2/NDF : 3630166.2/50

All: 0.003+/-0.000 χ^2/NDF : 8243599.7/95

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.087+/-0.000 χ^2/NDF : 1208293123.5/21

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.110+/-0.000 χ^2/NDF : 1115362198.5/25

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

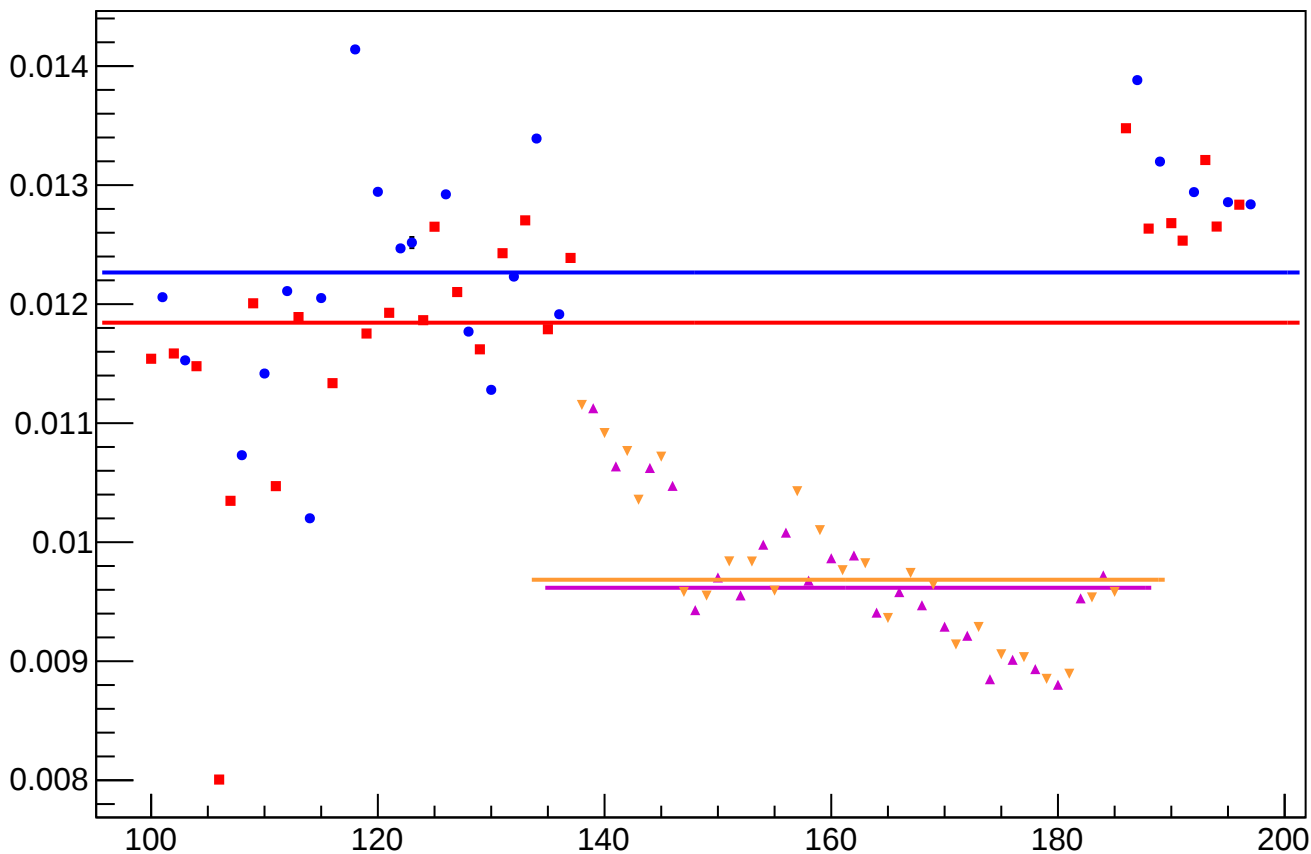
Right: -1.100+/-0.000 χ^2/NDF : 2342576432.6/47

In: -1.178+/-0.000 χ^2/NDF : 6415180495.1/44

Out: -1.189+/-0.000 χ^2/NDF : 7089419391.2/50

All: -1.184+/-0.000 χ^2/NDF : 13520991311.8/94

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 85525.4/21

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2/NDF : 229522.4/25

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :119823.1/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 255532.7/47

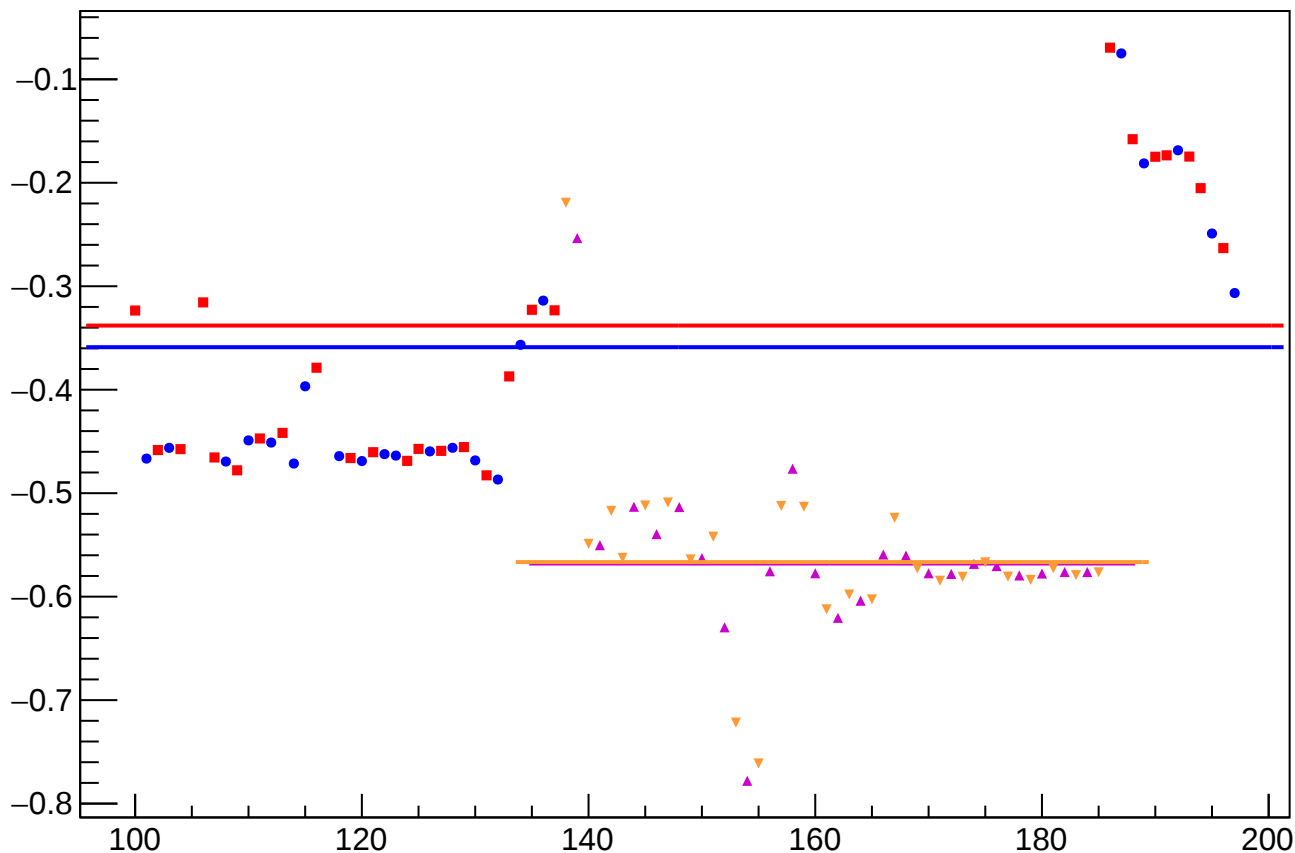
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 327406.6/47

In: 0.010 $\pm$ 0.000 χ^2/NDF :858727.8/44

Out: 0.010 $\pm$ 0.000 χ^2/NDF :879762.5/50

All: 0.010 $\pm$ 0.000 χ^2/NDF : 1738564.9/95

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.359+/-0.000 χ^2/NDF : 7501788579.4/21

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.338+/-0.000 χ^2/NDF : 10317138615.2/25

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

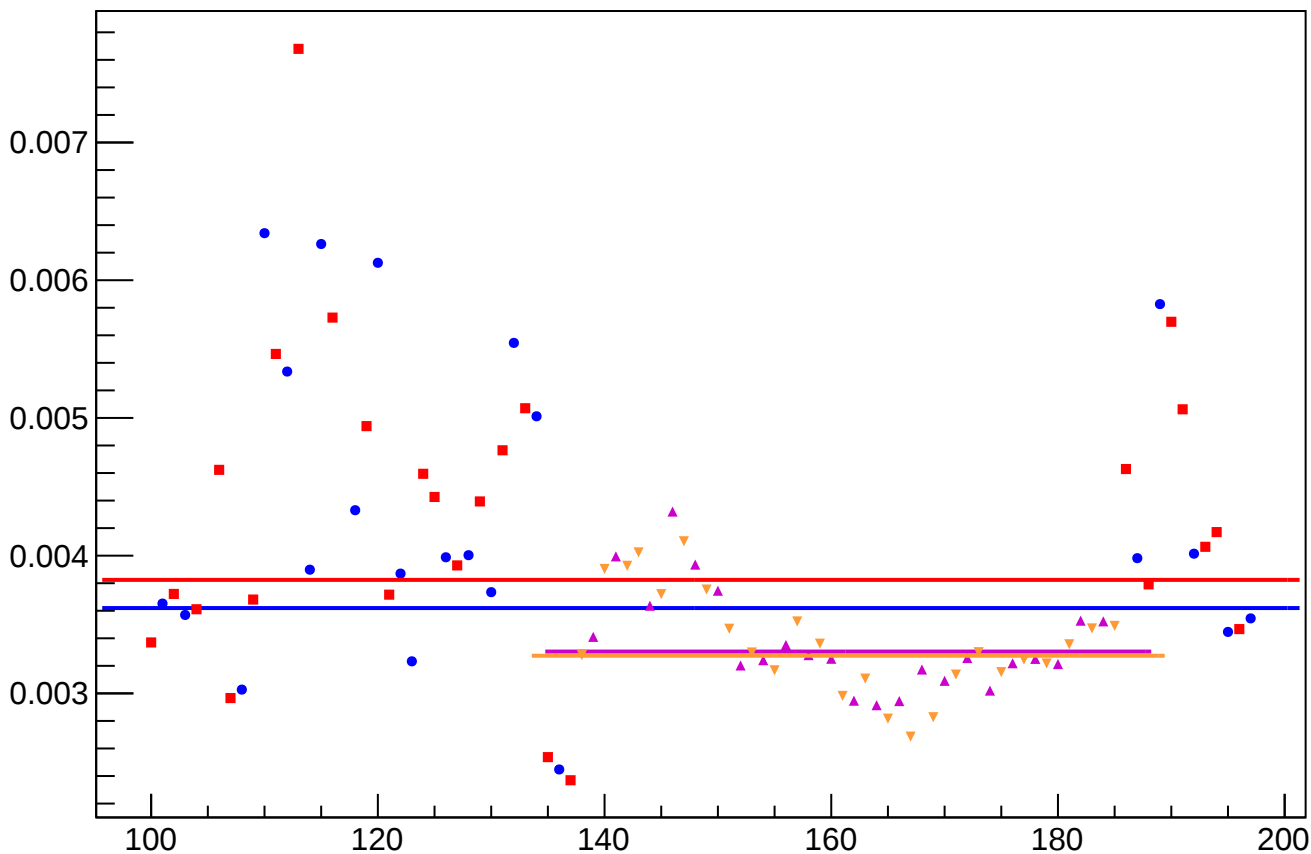
Right: -0.348+/-0.000 χ^2/NDF : 17960594478.2/47

In: -0.505+/-0.000 χ^2/NDF : 37342388792.7/44

Out: -0.500+/-0.000 χ^2/NDF : 48241331298.1/50

All: -0.502+/-0.000 χ^2/NDF : 85620531193.2/100

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 991805.7/21

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1045980.6/25

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

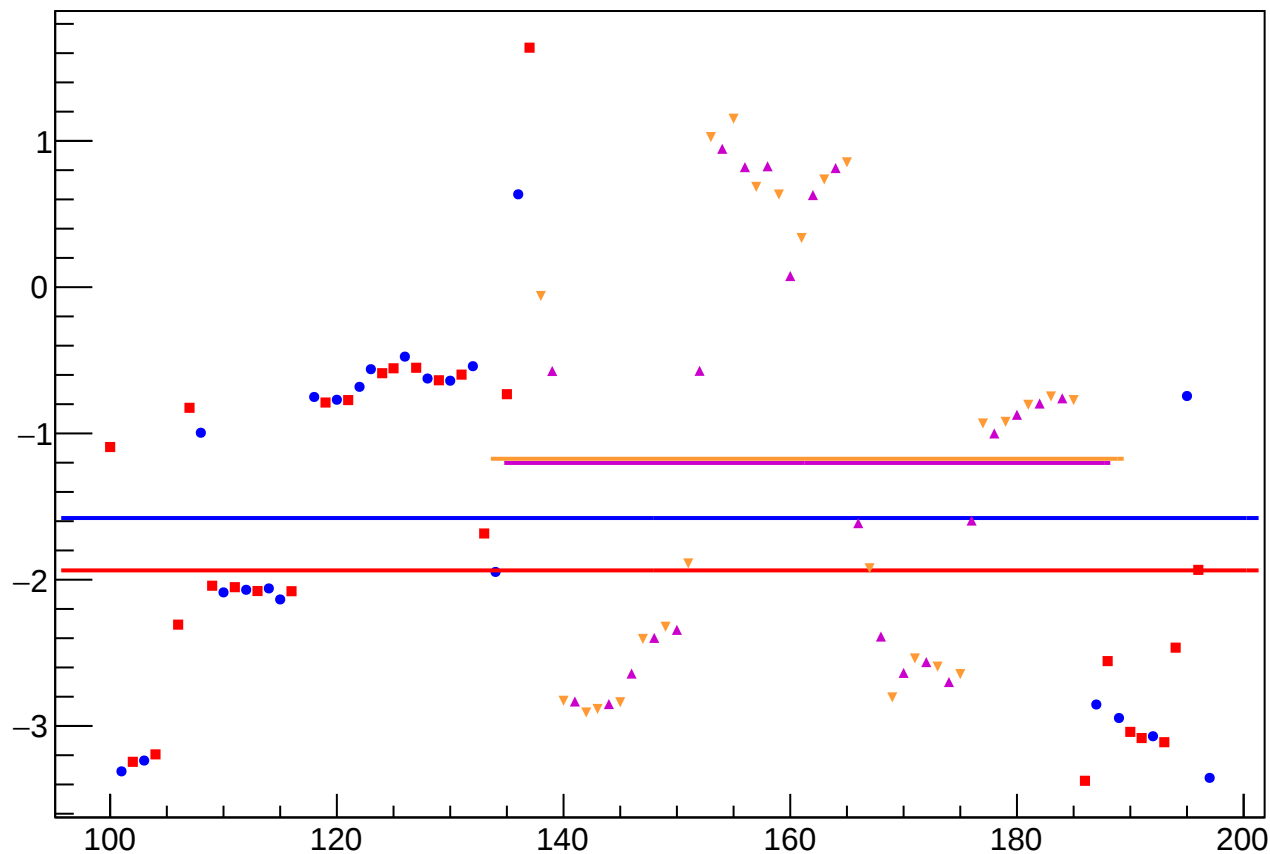
Right: 0.004+/-0.000 χ^2/NDF : 2064924.4/47

In: 0.003+/-0.000 χ^2/NDF : 1366320.7/44

Out: 0.003+/-0.000 χ^2/NDF : 1725891.3/50

All: 0.003+/-0.000 χ^2/NDF : 3095141.1/95

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.578+/-0.000 χ^2/NDF : 3184393241.0/21

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.936+/-0.000 χ^2/NDF : 2507136769.1/25

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

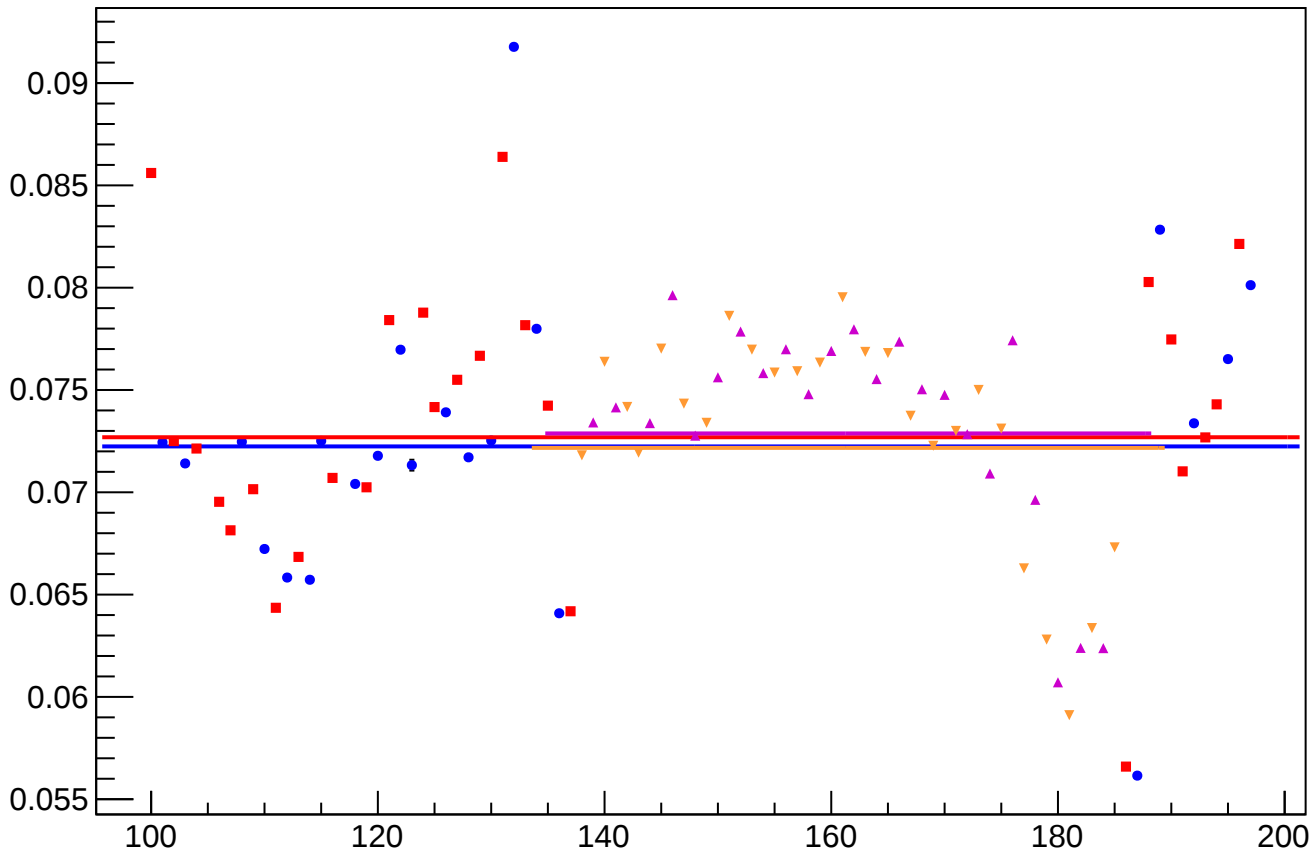
Right: -1.769+/-0.000 χ^2/NDF : 5816916265.8/47

In: -1.339+/-0.000 χ^2/NDF : 8956436629.1/44

Out: -1.461+/-0.000 χ^2/NDF : 10150373696.8/50

All: -1.403+/-0.000 χ^2/NDF : 19145990503.3/98

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 139010.6/21

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.073+/-0.000 χ^2/NDF : 169279.6/25

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

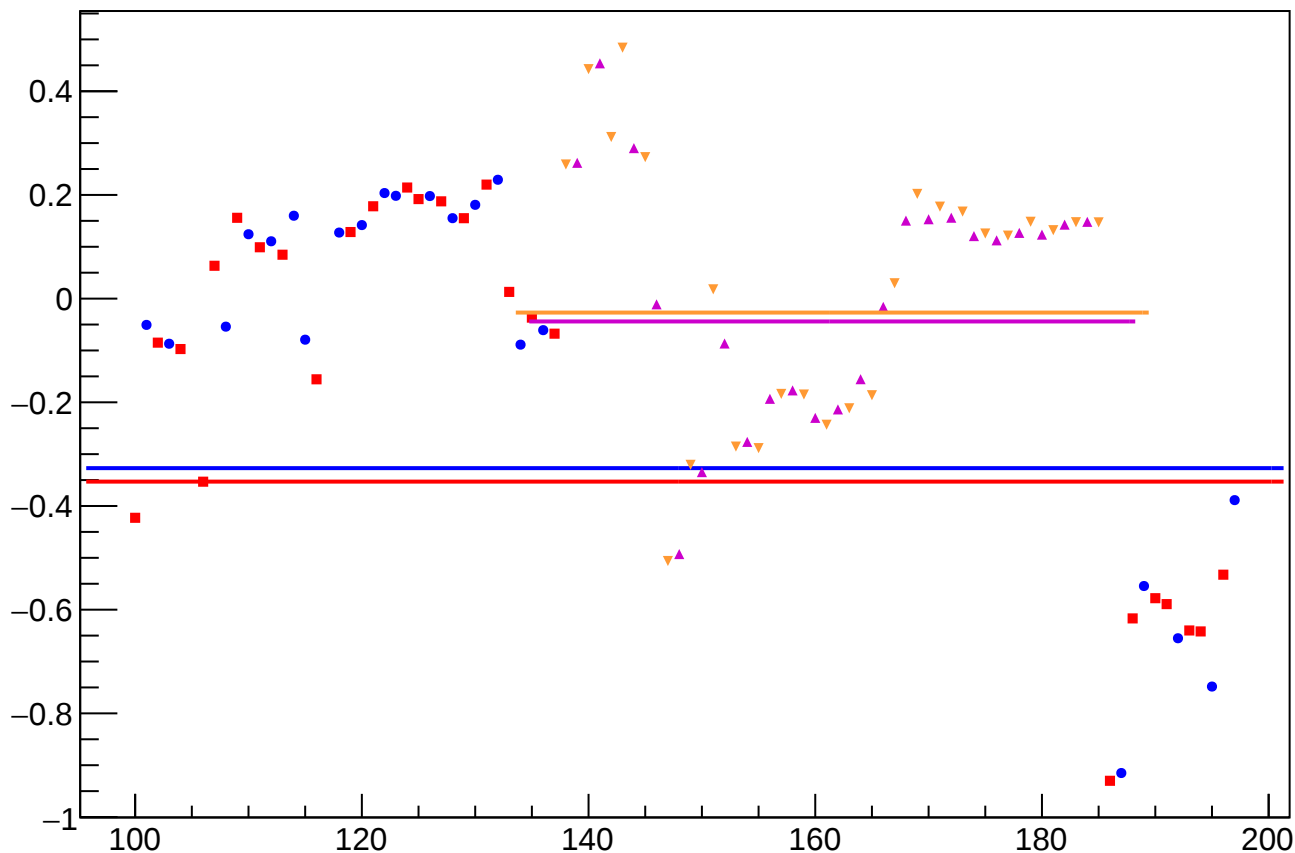
Right: 0.072+/-0.000 χ^2/NDF : 308683.3/47

In: 0.073+/-0.000 χ^2/NDF :323452.7/44

Out: 0.072+/-0.000 χ^2/NDF :392248.4/50

All: 0.072+/-0.000 χ^2/NDF : 716110.8/95

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.327+/-0.000 χ^2/NDF : 11991644534.5/21

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.353+/-0.000 χ^2/NDF : 10892798843.5/25

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

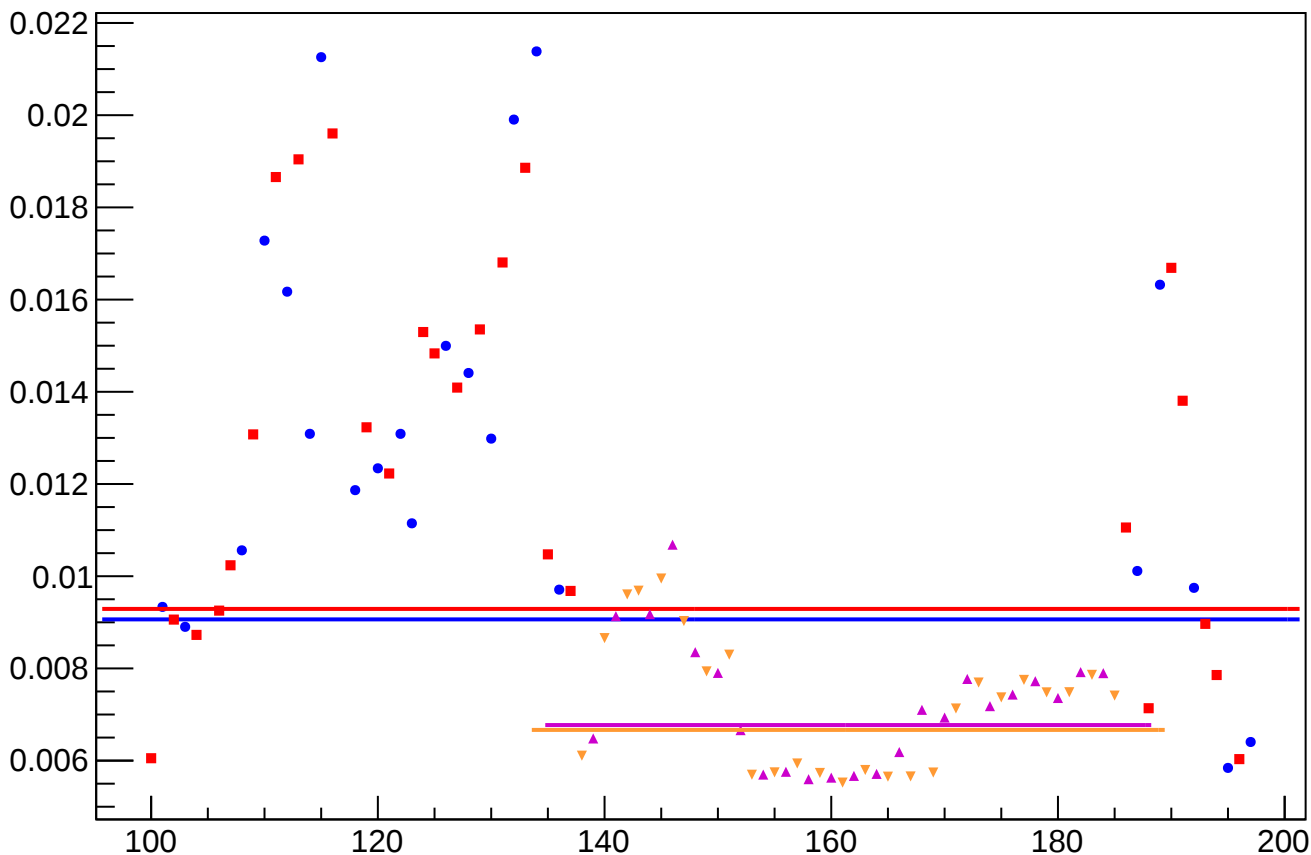
Right: -0.340+/-0.000 χ^2/NDF : 22918519409.6/47

In: -0.106+/-0.000 χ^2/NDF : 33791624227.2/44

Out: -0.098+/-0.000 χ^2/NDF : 39985636703.4/50

All: -0.102+/-0.000 χ^2/NDF : 73794785666.2/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2103745.0/21

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2260799.9/25

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

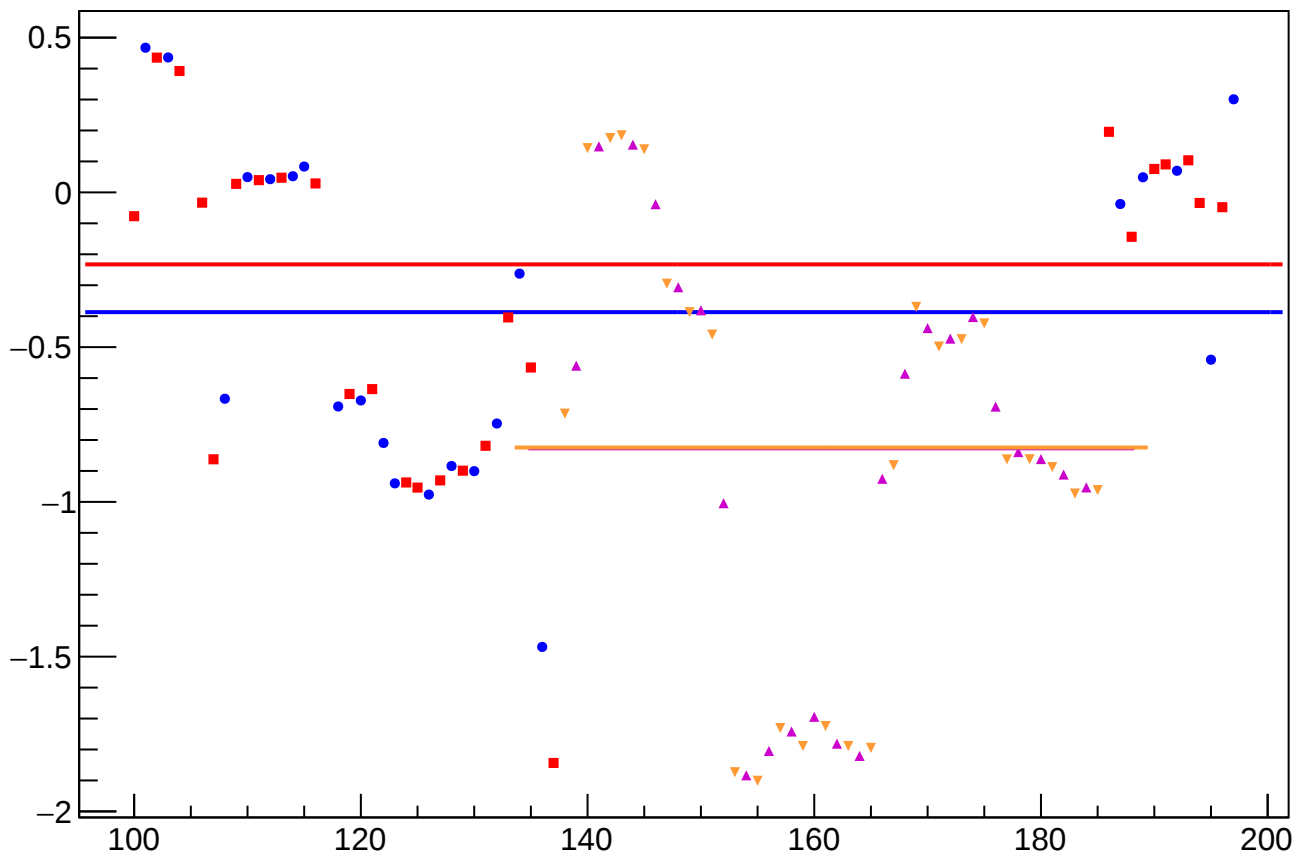
Right: 0.009+/-0.000 χ^2/NDF : 4369758.0/47

In: 0.007+/-0.000 χ^2/NDF :3835785.8/44

Out: 0.007+/-0.000 χ^2/NDF :4533925.1/50

All: 0.007+/-0.000 χ^2/NDF : 8370478.5/95

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.387+/-0.000 χ^2/NDF : 423622308.8/21

Left Out: -0.824+/-0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.233+/-0.000 χ^2/NDF : 327242832.9/25

Left In: -0.827+/-0.000 χ^2/NDF : 921651117.3/22

Left: -0.826+/-0.000 χ^2/NDF : 2025270716.0/47

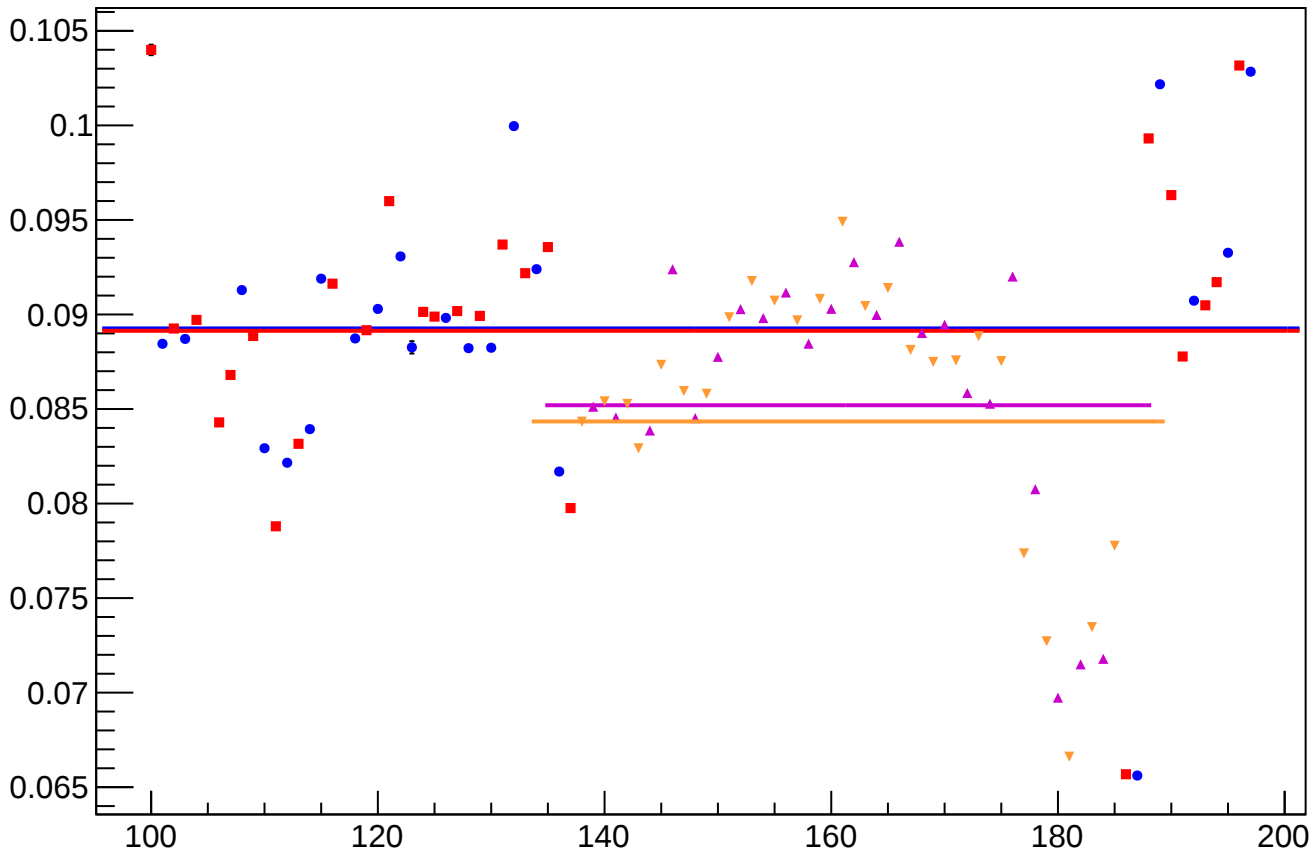
Right: -0.304+/-0.000 χ^2/NDF : 766432071.1/47

In: -0.677+/-0.000 χ^2/NDF : 1500696554.0/44

Out: -0.614+/-0.000 χ^2/NDF : 1749034090.5/50

All: -0.644+/-0.000 χ^2/NDF : 3257293320.7/9

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.089+/-0.000 χ^2/NDF : 120807.4/21

Left Out: 0.084+/-0.000 χ^2/NDF : 288312.6/24

Right Out: 0.089+/-0.000 χ^2/NDF : 189674.0/25

Left In: 0.085+/-0.000 χ^2/NDF : 238313.9/22

Left: 0.085+/-0.000 χ^2/NDF : 528427.1/47

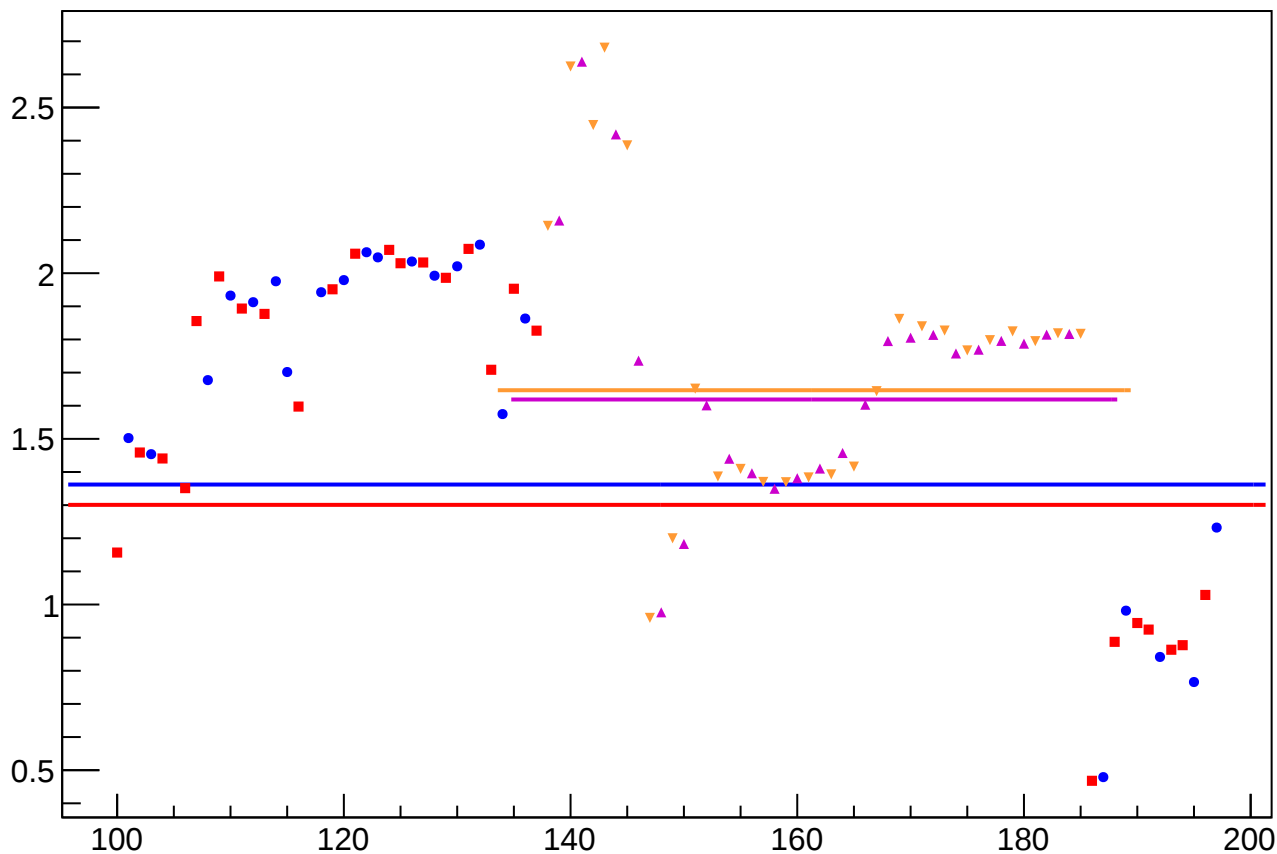
Right: 0.089+/-0.000 χ^2/NDF : 310501.6/47

In: 0.087+/-0.000 χ^2/NDF : 385618.3/44

Out: 0.086+/-0.000 χ^2/NDF : 519782.5/50

All: 0.086+/-0.000 χ^2/NDF : 906471.6/95

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.362 $\pm$ 0.000 χ^2 /NDF: 12495810229.3/21

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.301 $\pm$ 0.000 χ^2 /NDF: 11969579806.4/25

Left In: 1.619 $\pm$ 0.000 χ^2 /NDF: 20618198188.1/22

Left: 1.633 $\pm$ 0.000 χ^2 /NDF: 47231460201.8/47

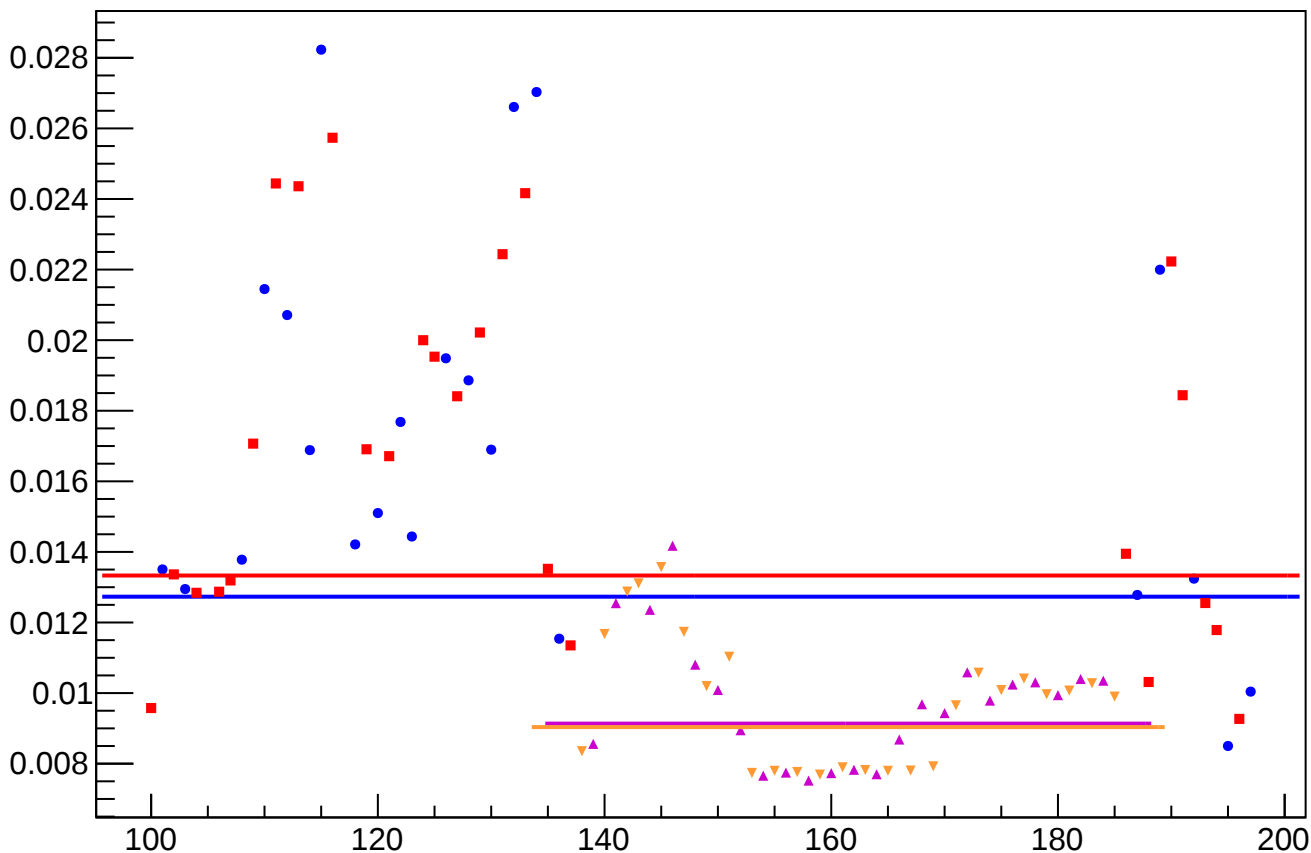
Right: 1.331 $\pm$ 0.000 χ^2 /NDF: 24562951415.3/47

In: 1.565 $\pm$ 0.000 χ^2 /NDF: 35765535308.5/44

Out: 1.577 $\pm$ 0.000 χ^2 /NDF: 43546269109.0/50

All: 1.571 $\pm$ 0.000 χ^2 /NDF: 79329647582.8/95

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1557214.4/21

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1648742.8/25

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

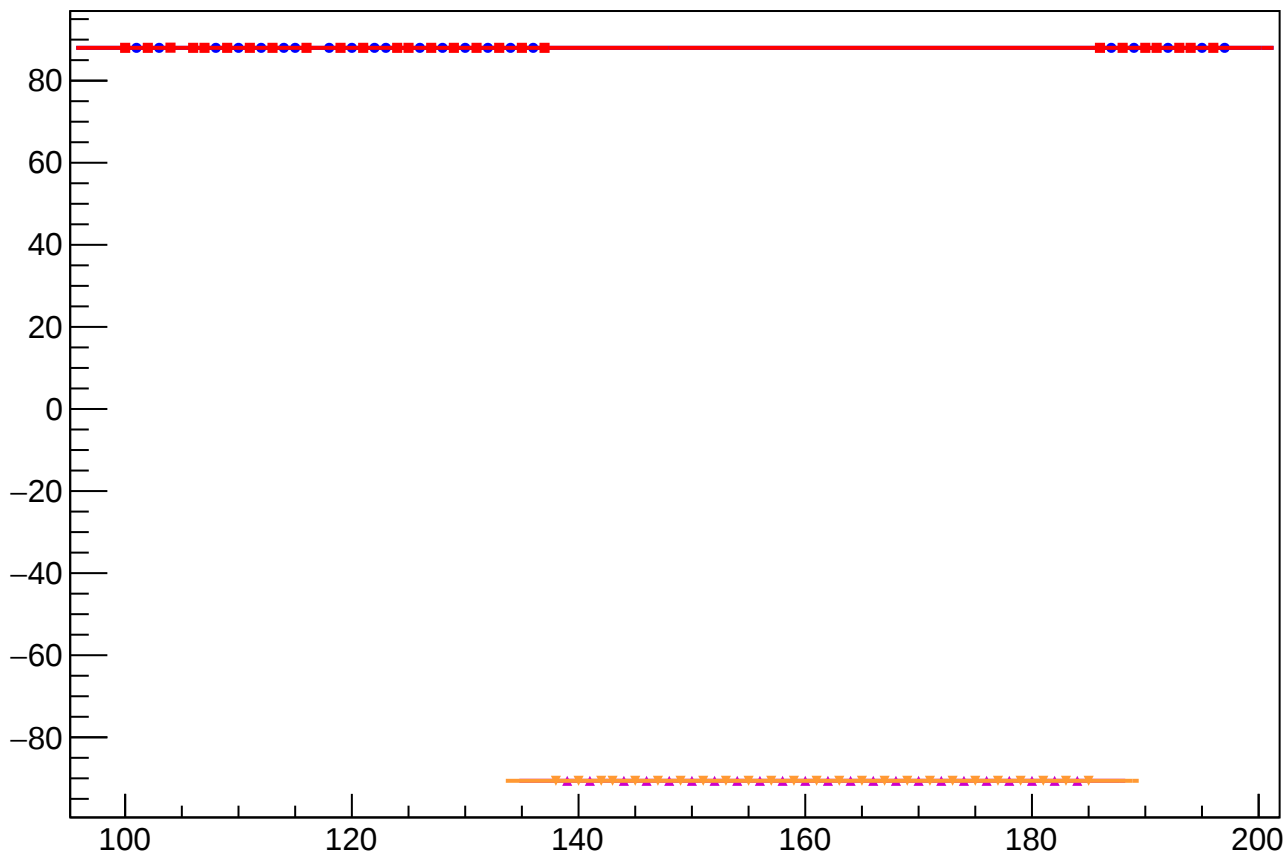
Right: 0.013+/-0.000 χ^2/NDF : 3224603.7/47

In: 0.010+/-0.000 χ^2/NDF :3476658.9/44

Out: 0.010+/-0.000 χ^2/NDF :4245534.2/50

All: 0.010+/-0.000 χ^2/NDF : 7722242.5/95

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001 $\pm$ 0.000 χ^2 /NDF: 2186899.1/21

Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 5785821.4/24

Right Out: 88.002 $\pm$ 0.000 χ^2 /NDF: 79771367129841115773865558016.0/25

Left In: -90.599 $\pm$ 0.000 χ^2 /NDF: 7134230.8/22

Left: -90.599 $\pm$ 0.000 χ^2 /NDF: 11903242.1/47

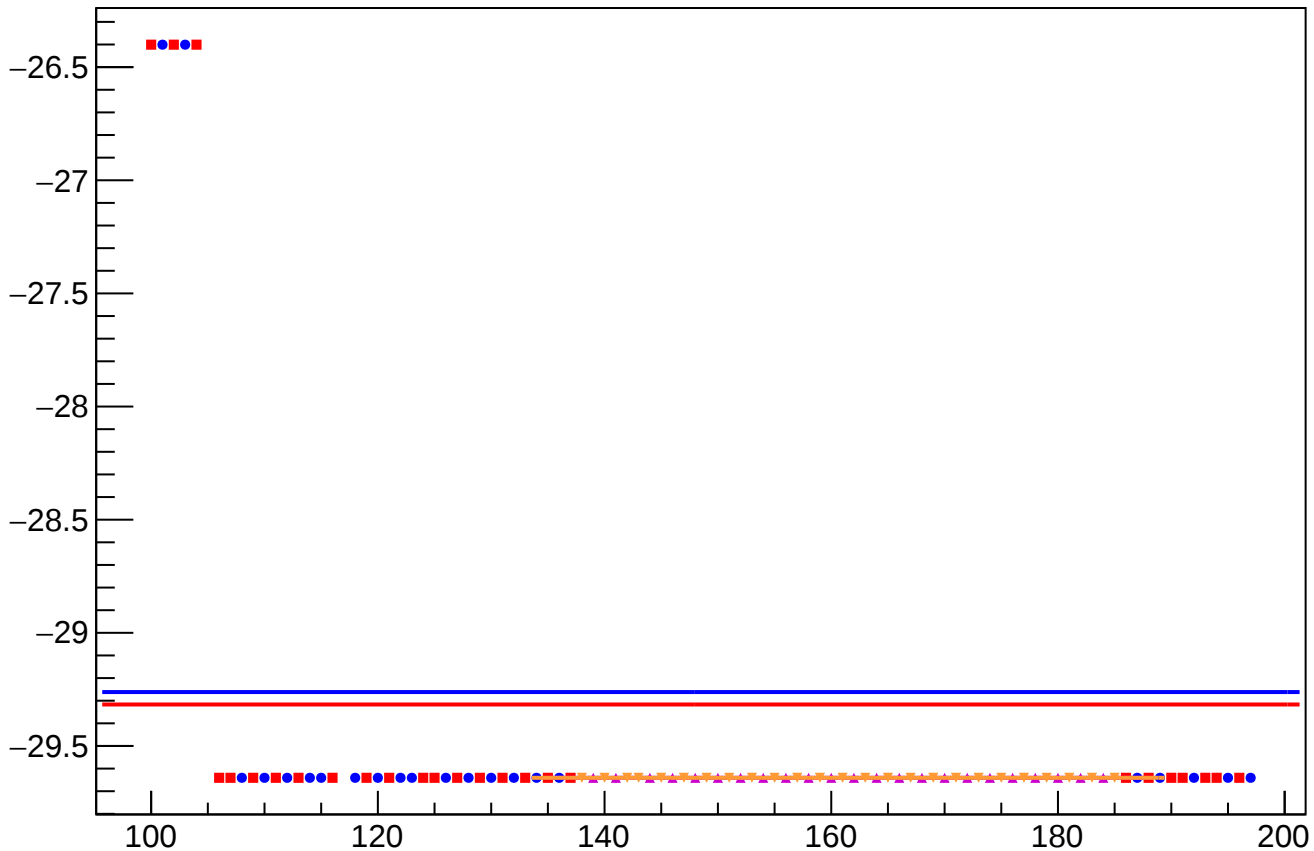
Right: 88.002 $\pm$ 0.000 χ^2 /NDF: 8147791030094963

In: -26.354 $\pm$ 0.000 χ^2 /NDF: 20607605984114059

Out: -23.004 $\pm$ 0.000 χ^2 /NDF: 2299821075767657

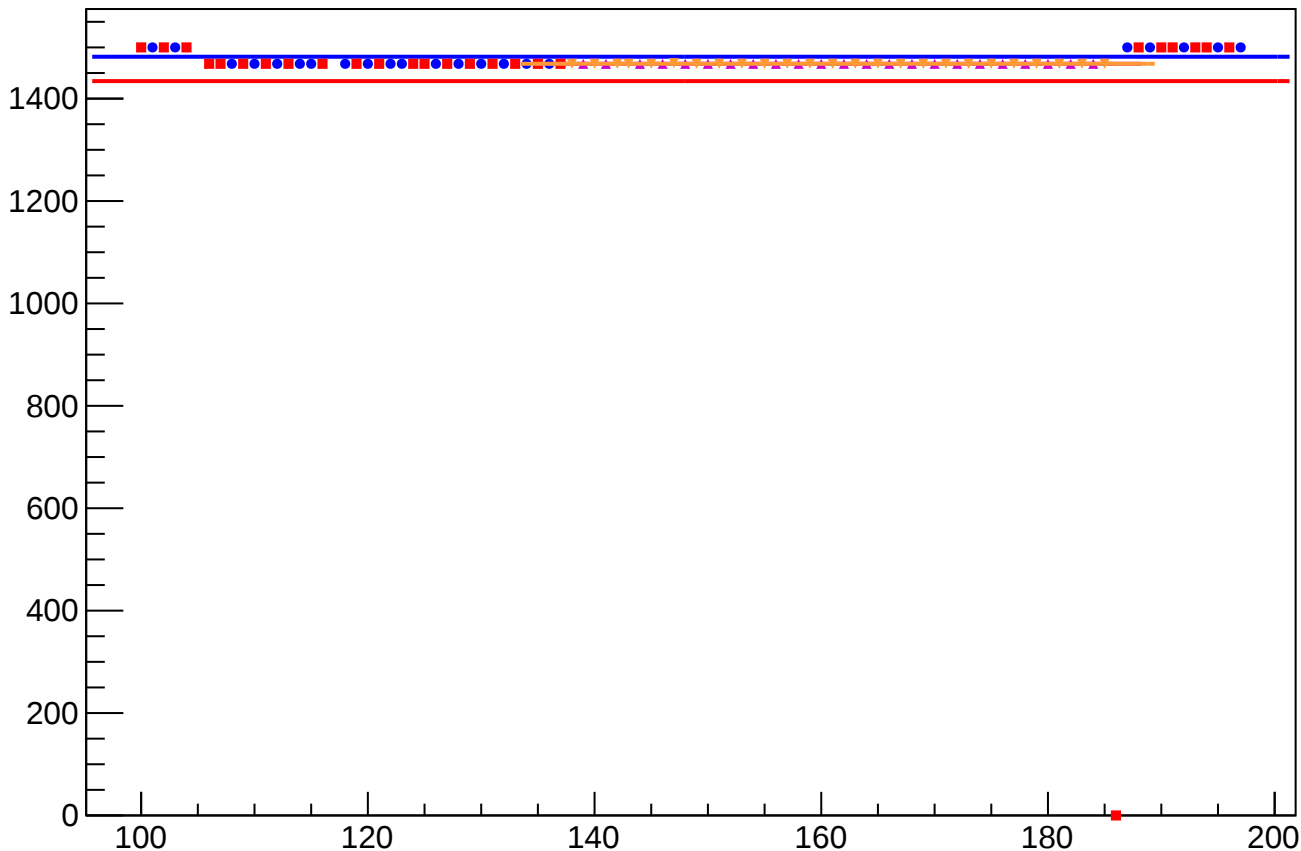
All: -24.605 $\pm$ 0.000 χ^2 /NDF: 436222508785

epics_HWienAngles_mean vs Slug, Sign Corrected



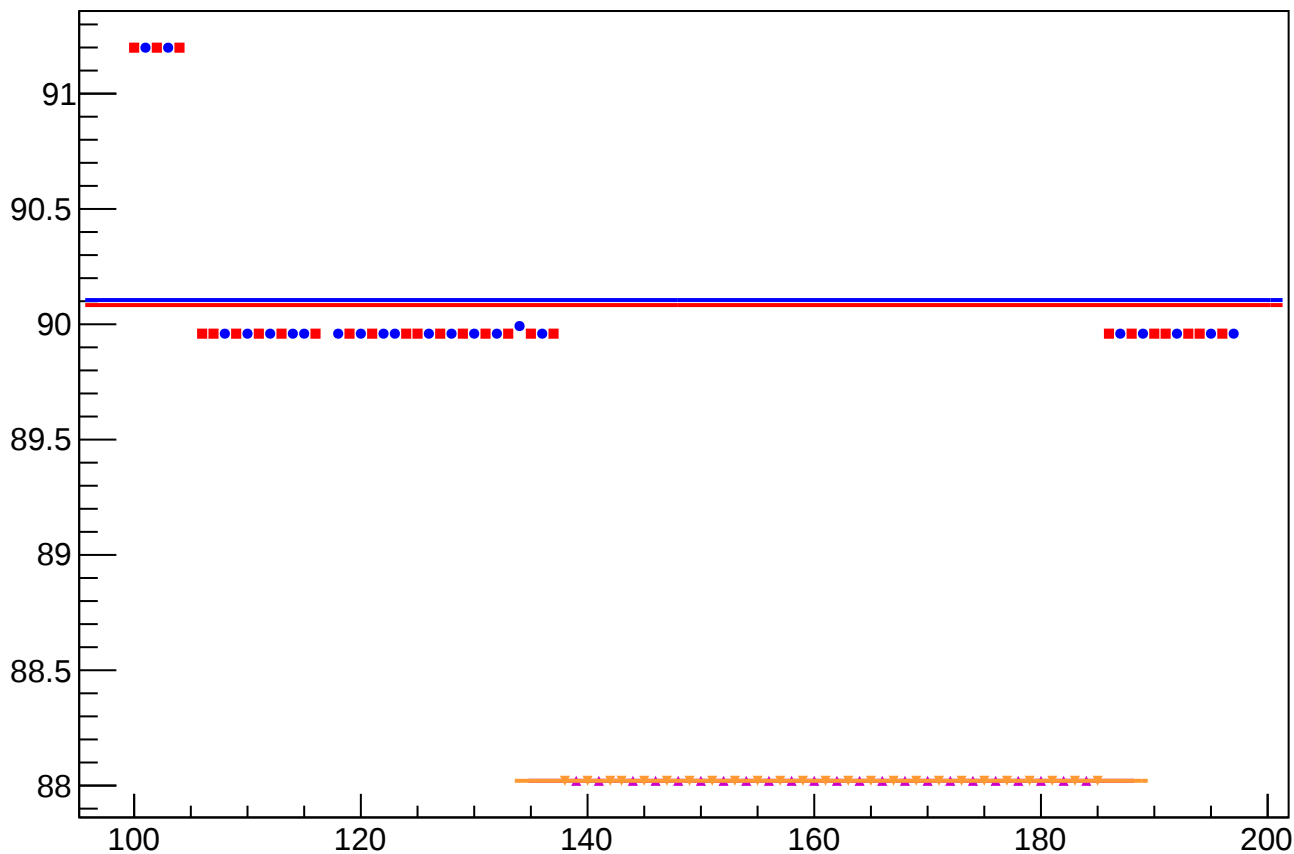
Right In: -29.262+/-0.000 χ^2/NDF : 1093852000792868215142386474418176.0/21
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.317+/-0.000 χ^2/NDF : 10959494399999996432798159787261952.0/25
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.504+/-0.000 χ^2/NDF : 11866067884491838
 Out: -29.518+/-0.000 χ^2/NDF : 1171634909755276
 All: -29.512+/-0.000 χ^2/NDF : 235851564265

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1481.816+/-0.000 χ^2/NDF : 253881318967309036095263453330014208.0/21
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1434.190+/-0.000 χ^2/NDF : 81094294489580733410117543557085528064.0/25
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1463.707+/-0.000 χ^2/NDF : 82758759448

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.105+/-0.000

χ^2/NDF : 160039395003156667996047191048192.0/21

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.083+/-0.000

χ^2/NDF : 160525440000036633431947127816192.0/25

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.093+/-0.000

χ^2/NDF : 3208190009593738

In: 88.770+/-0.000

χ^2/NDF : 296665937874773157

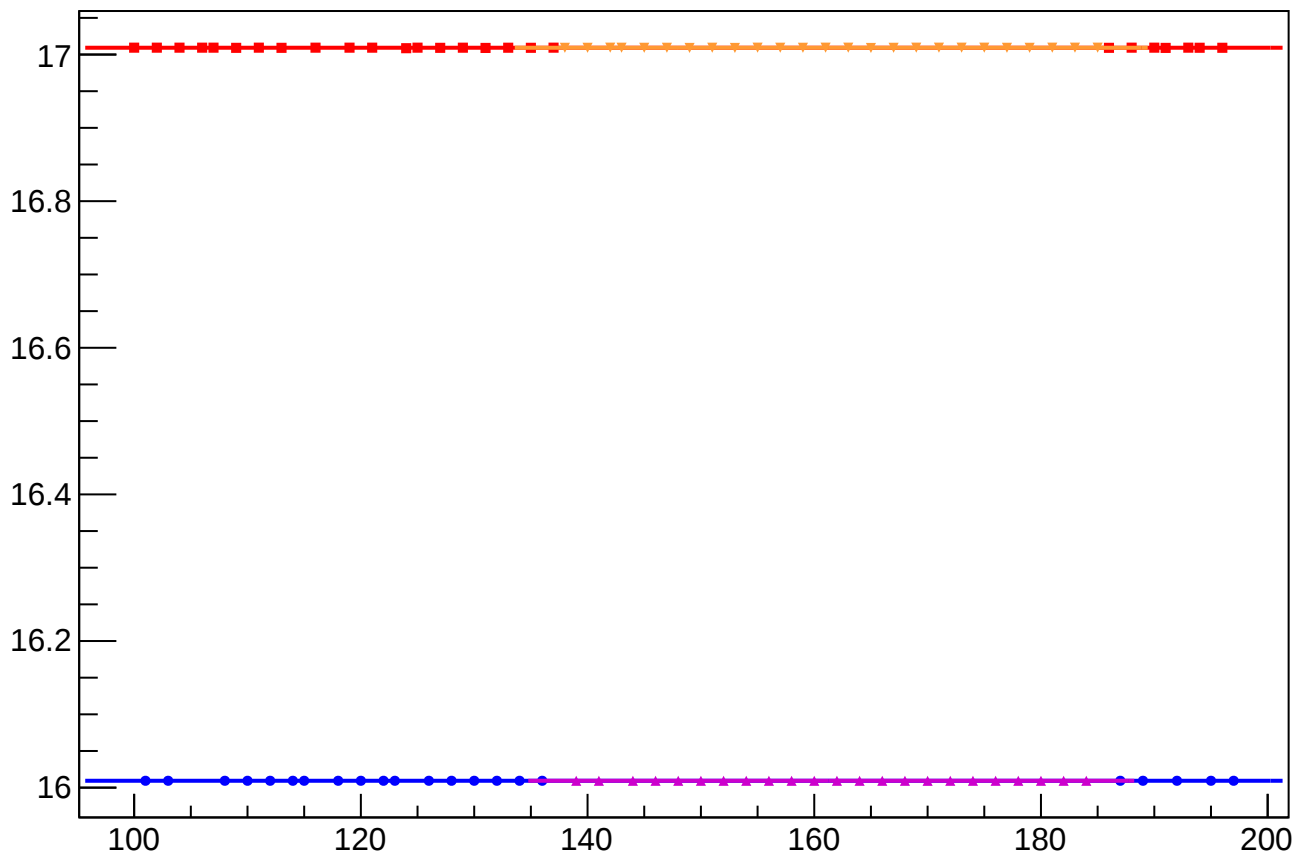
Out: 88.801+/-0.000

χ^2/NDF : 32277804552582532

All: 88.787+/-0.000

χ^2/NDF : 6195835598462

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 149050.5/21

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 16244392860710741448065024.0/25

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

Left: 16.524 $\pm$ 0.000 χ^2 /NDF: 85855870772921272

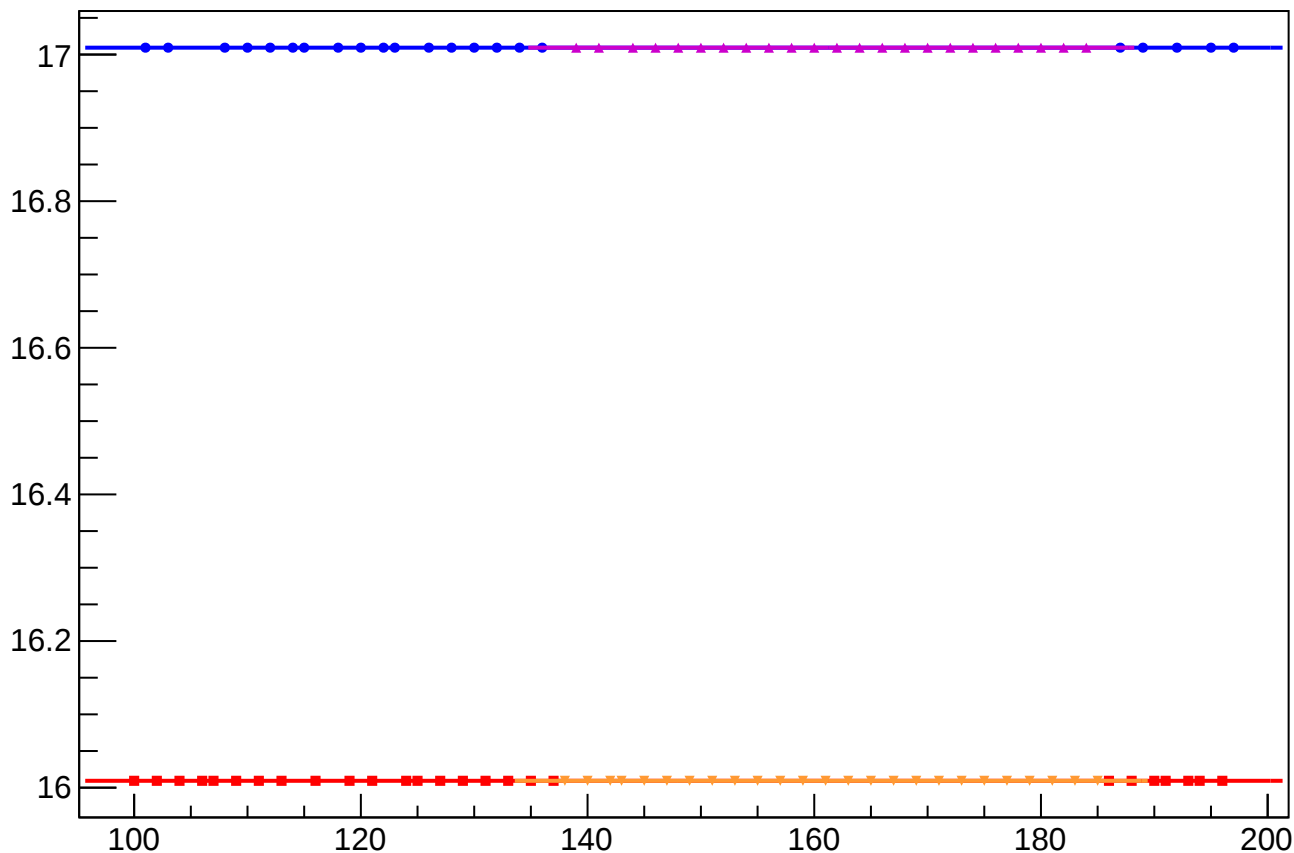
Right: 16.537 $\pm$ 0.000 χ^2 /NDF: 5157819784600999

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 130083577183754419

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 42693678886757513

All: 16.529 $\pm$ 0.000 χ^2 /NDF: 1374565638127

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 219921.8/21

Left Out: 16.009+/-0.000 χ^2/NDF : 61253.5/24

Right Out: 16.009+/-0.000 χ^2/NDF : 226157.0/25

Left In: 17.009+/-0.000 χ^2/NDF : 114986101427233622065152.0/22

Left: 16.491+/-0.000 χ^2/NDF : 90683349233974458

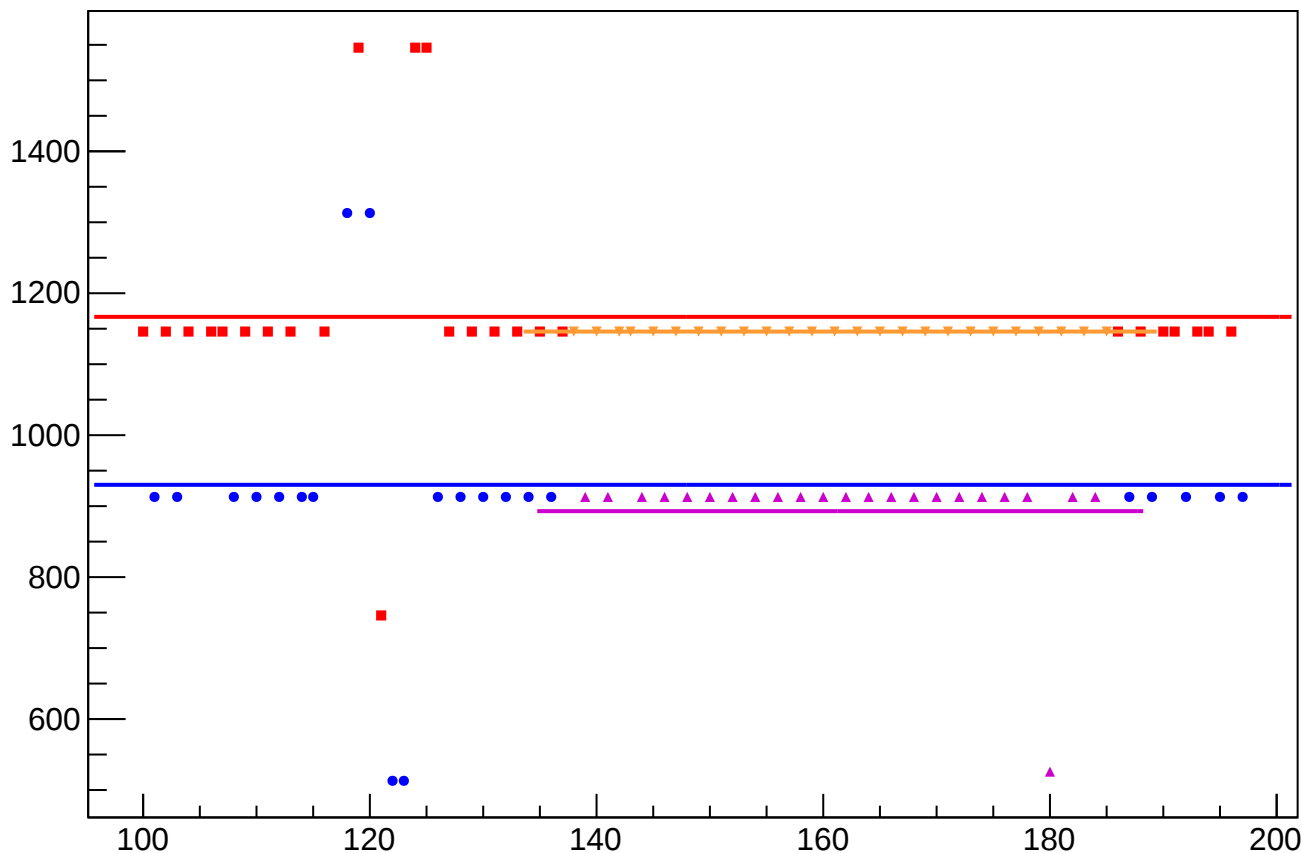
Right: 16.468+/-0.000 χ^2/NDF : 5288643192488046

In: 17.009+/-0.000 χ^2/NDF : 116983497088272603

Out: 16.009+/-0.000 χ^2/NDF : 717005.1/50

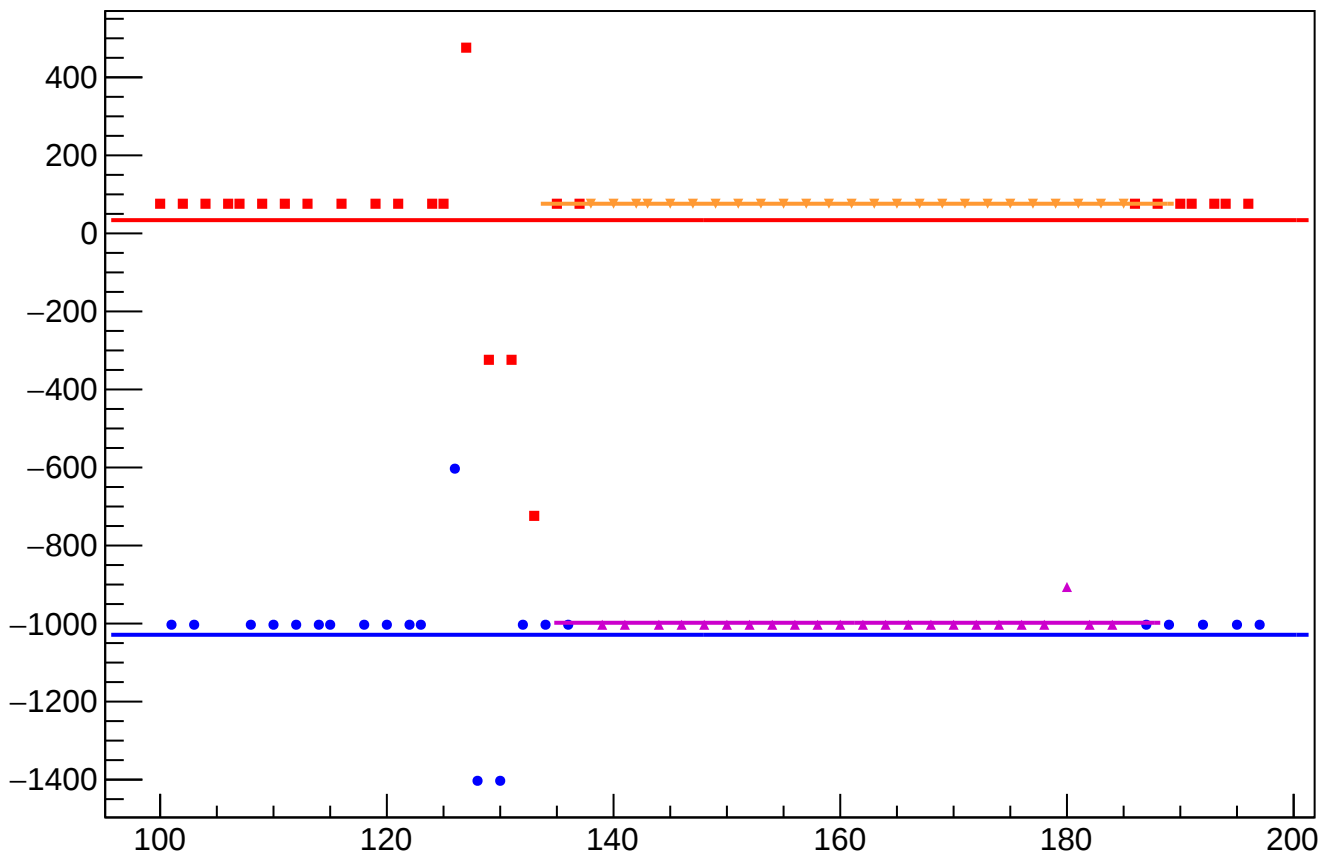
All: 16.483+/-0.000 χ^2/NDF : 1436434057303

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1023.207 $\pm$ 0.000 χ^2/NDF : 724152114185977
 Right: 1056.609 $\pm$ 0.000 χ^2/NDF : 72794942551420
 In: 906.293 $\pm$ 0.000 χ^2/NDF : 35090800372692616
 Out: 1153.841 $\pm$ 0.000 χ^2/NDF : 218927480464075
 All: 1035.549 $\pm$ 0.000 χ^2/NDF : 14673585093

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1028.758+/-0.000

χ^2/NDF : 22529676945638889668390032433194467328.0/21

Left Out: 76.011+/-0.000

χ^2/NDF : 11479003589933272170007363584.0/24

Right Out: 33.941+/-0.000

χ^2/NDF : 44986738708769156169295944550075858944.0/25

Left In: -997.979+/-0.000

χ^2/NDF : 825858066518991041870194619245920256.0/22

All: -450.803+/-0.000 χ^2/NDF : 17443781521