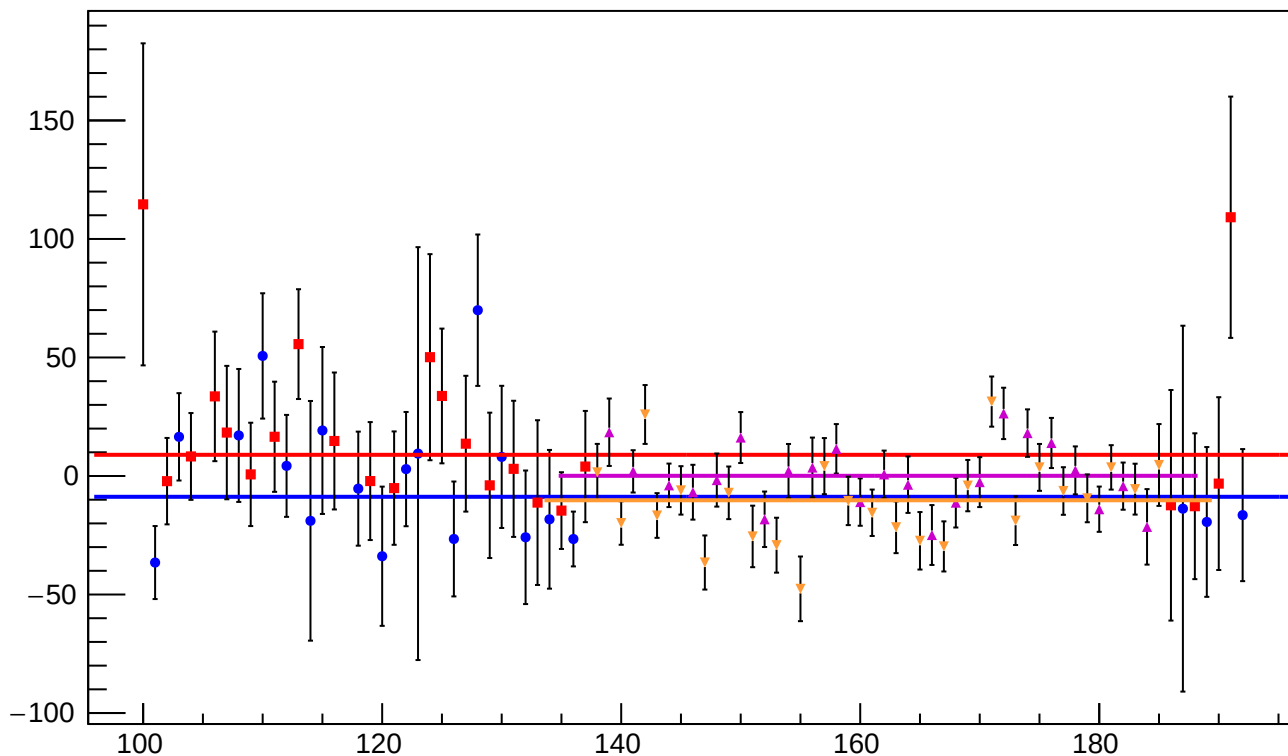


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.774 ± 5.413

$\chi^2/\text{NDF}: 23.1/19$

Left Out: -10.238 ± 2.170

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

Right Out: 8.938 ± 5.461

$\chi^2/\text{NDF}: 17.7/22$

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: 0.005 ± 3.844

$\chi^2/\text{NDF}: 46.1/42$

In: -1.224 ± 2.078

$\chi^2/\text{NDF}: 55.2/42$

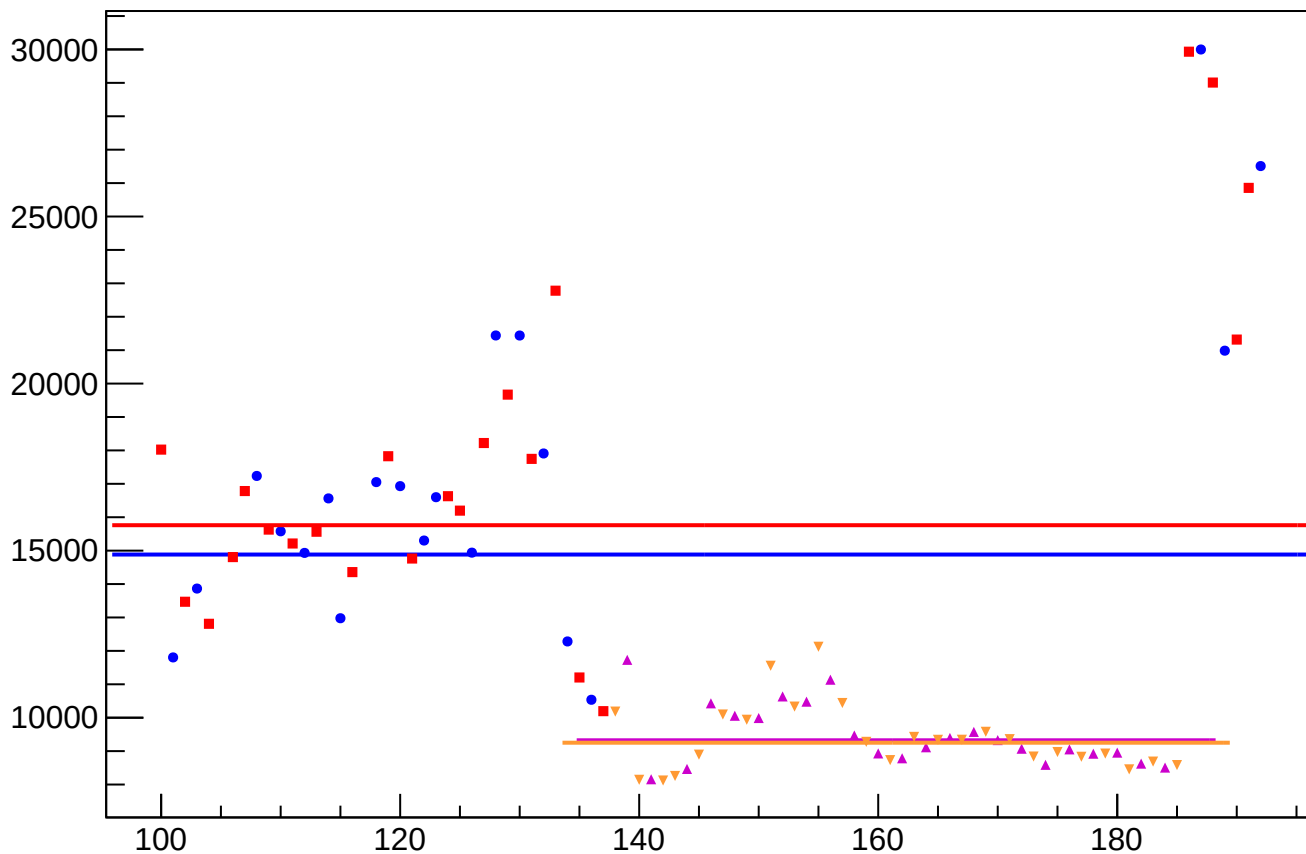
Out: -7.623 ± 2.017

$\chi^2/\text{NDF}: 86.5/47$

All: -4.519 ± 1.447

$\chi^2/\text{NDF}: 146.6/90$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14883.228+/-3.828 χ^2/NDF : 1137948.4/19

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

Right Out: 15761.271+/-3.861 χ^2/NDF : 1190675.8/22

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

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

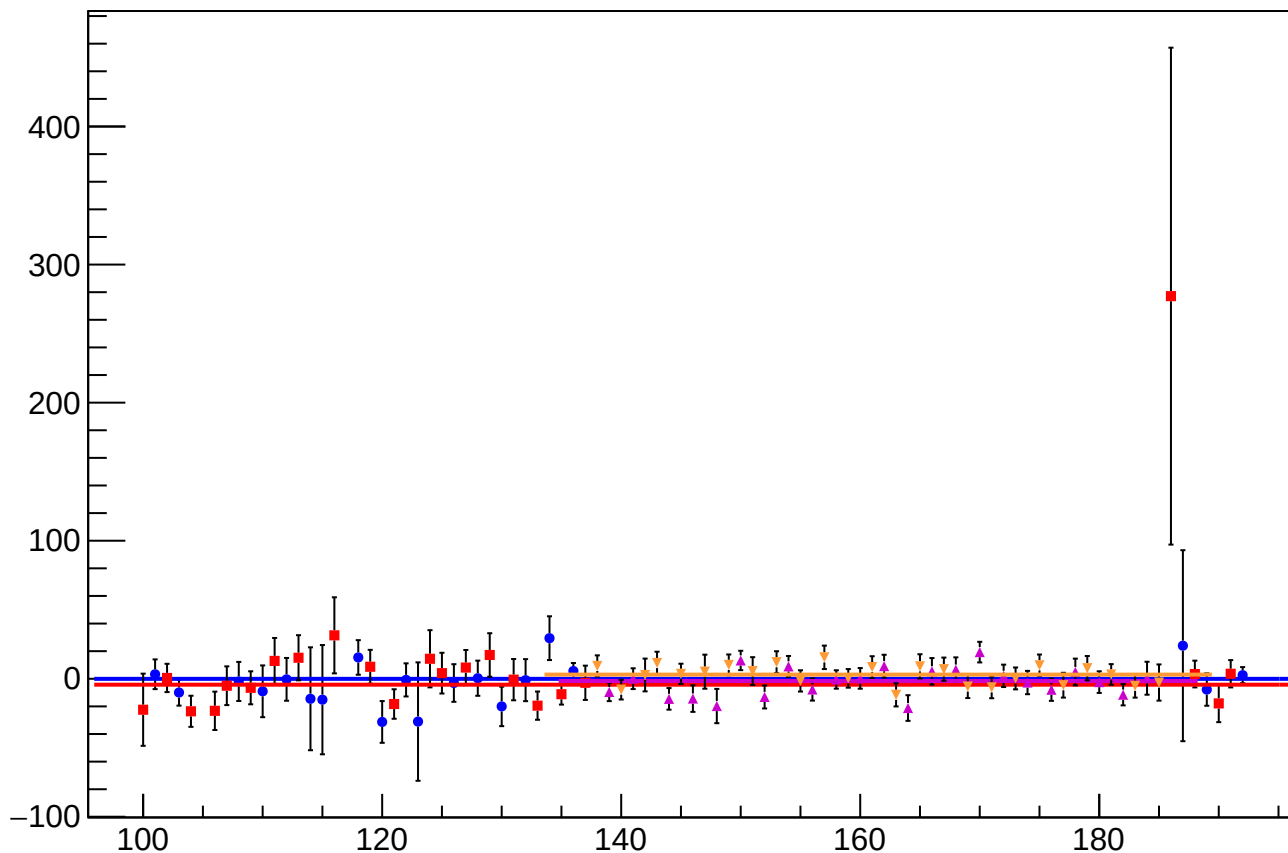
Right: 15318.418+/-2.718 χ^2/NDF : 2354703.6/42

In: 10143.245+/-1.469 χ^2/NDF : 3212101.2/42

Out: 10139.709+/-1.426 χ^2/NDF : 3977279.9/47

All: 10141.424+/-1.023 χ^2/NDF : 7189384.1/95

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.050 ± 2.648 $\chi^2/\text{NDF}: 15.2/19$

Left Out: 3.027 ± 1.661 $\chi^2/\text{NDF}: 18.6/24$

Right Out: -4.275 ± 2.655 $\chi^2/\text{NDF}: 24.3/22$

Left In: -1.588 ± 1.703 $\chi^2/\text{NDF}: 35.5/22$

Left: 0.777 ± 1.189 $\chi^2/\text{NDF}: 57.8/47$

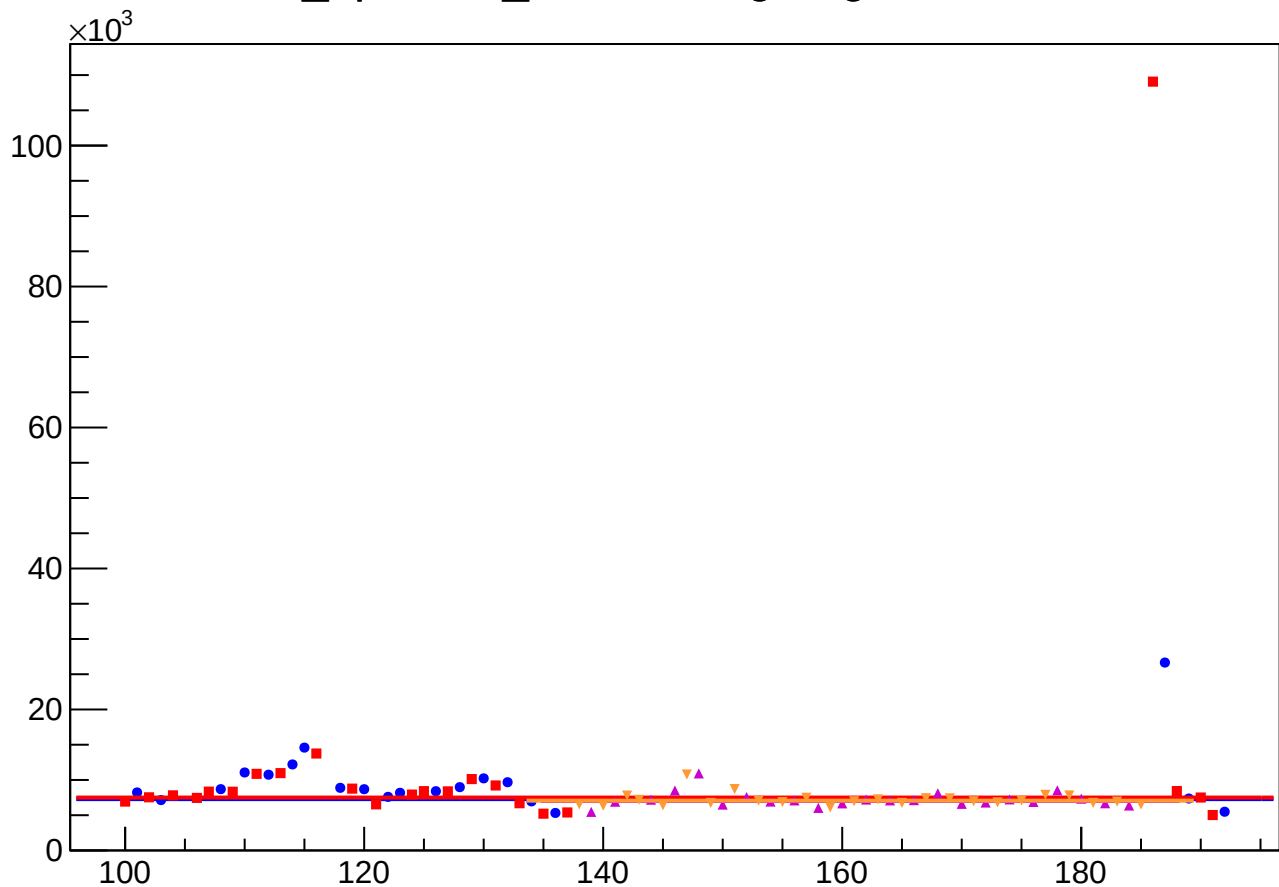
Right: -2.157 ± 1.875 $\chi^2/\text{NDF}: 40.8/42$

In: -1.138 ± 1.432 $\chi^2/\text{NDF}: 51.0/42$

Out: 0.974 ± 1.408 $\chi^2/\text{NDF}: 48.4/47$

All: -0.064 ± 1.004 $\chi^2/\text{NDF}: 100.4/90$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7282.530+/-1.872 χ^2/NDF : 1131488.5/19

Left Out: 7064.457+/-1.174 χ^2/NDF : 386814.9/24

Right Out: 7504.555+/-1.877 χ^2/NDF : 1467063.0/22

Left In: 7014.572+/-1.204 χ^2/NDF : 525313.7/22

Left: 7040.137+/-0.841 χ^2/NDF : 913008.5/47

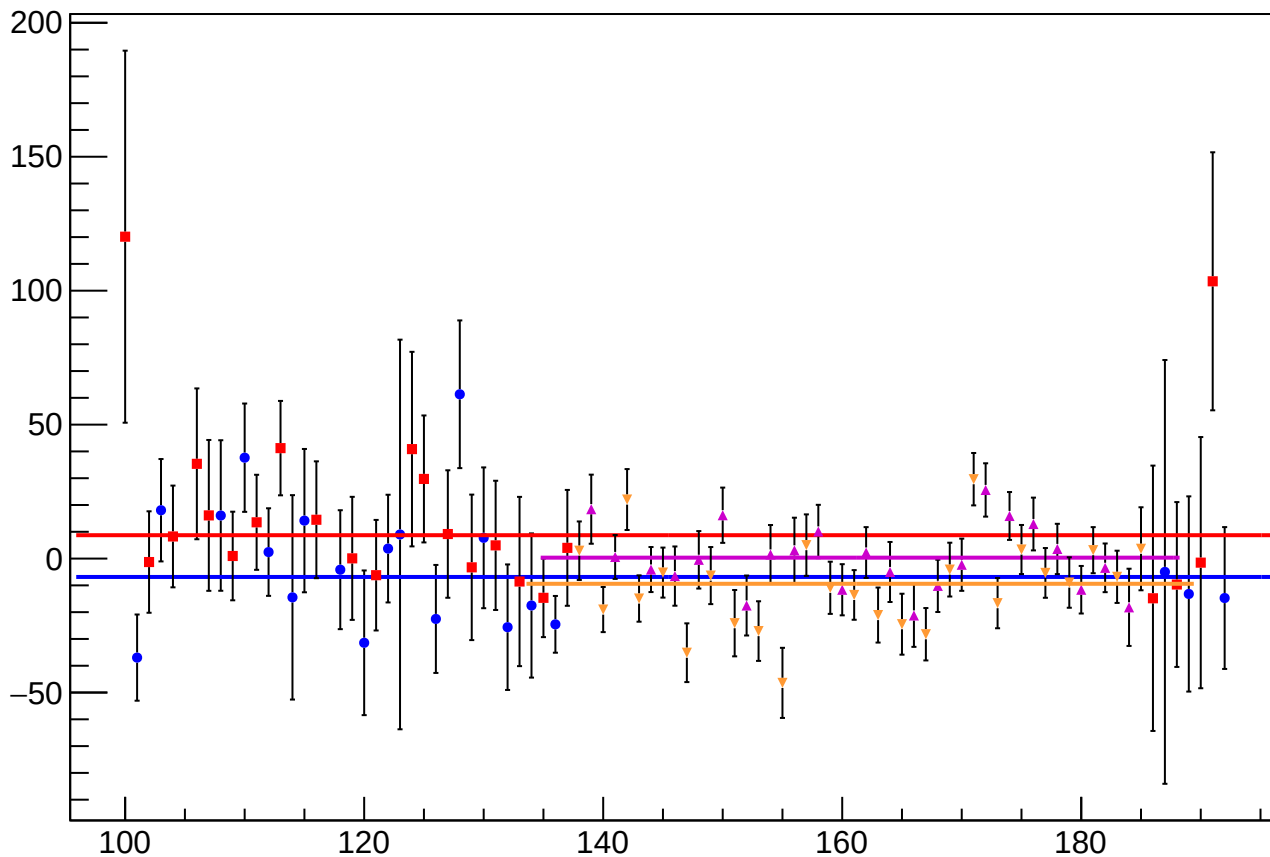
Right: 7393.253+/-1.326 χ^2/NDF : 2605563.3/42

In: 7092.947+/-1.013 χ^2/NDF : 1671291.7/42

Out: 7188.213+/-0.996 χ^2/NDF : 1893380.7/47

All: 7141.393+/-0.710 χ^2/NDF : 3569173.2/90

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.860 ± 4.886 $\chi^2/\text{NDF}: 23.6/19$

Left Out: -9.411 ± 2.021 $\chi^2/\text{NDF}: 58.8/24$

Right Out: 8.727 ± 4.867 $\chi^2/\text{NDF}: 17.4/22$

Left In: 0.344 ± 2.100 $\chi^2/\text{NDF}: 29.9/22$

Left: -4.722 ± 1.456 $\chi^2/\text{NDF}: 99.9/47$

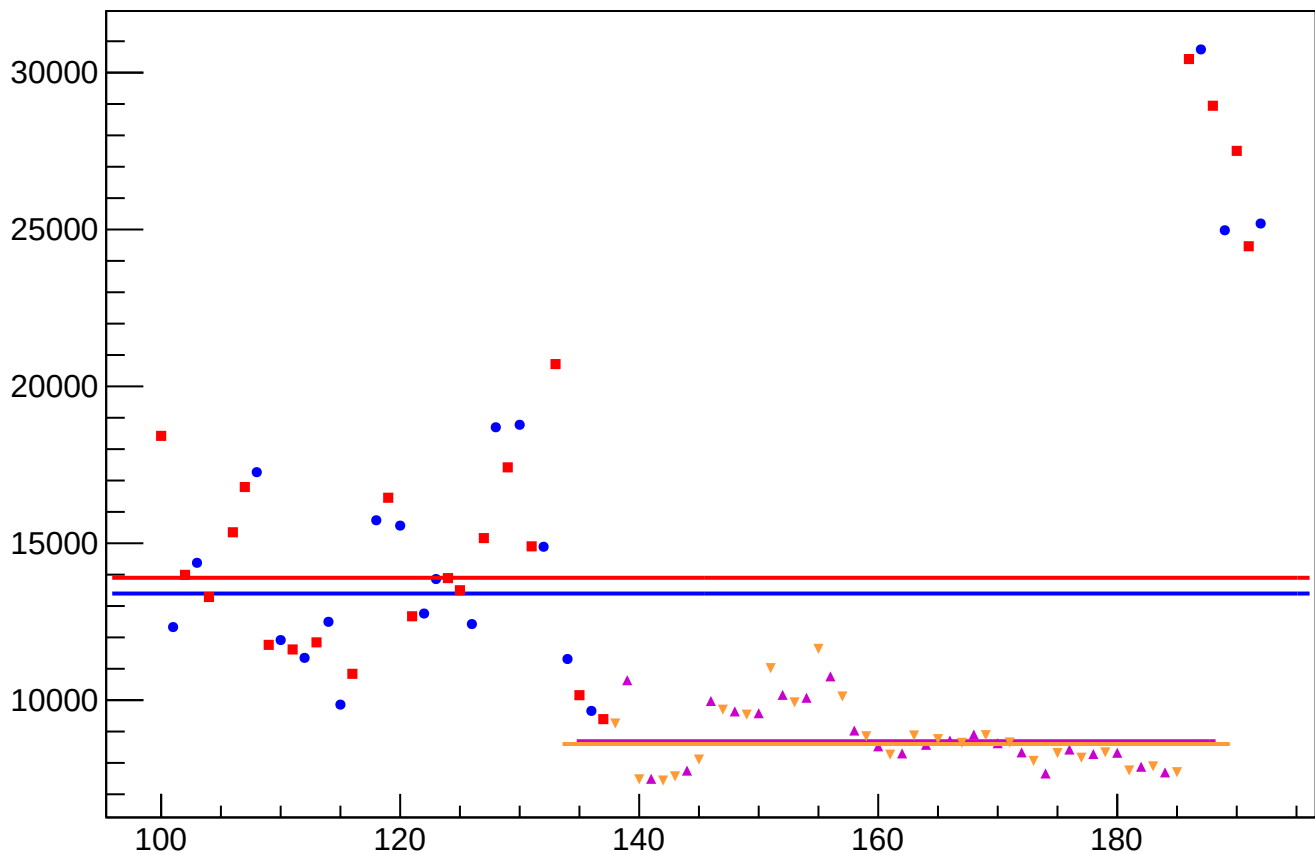
Right: 0.964 ± 3.448 $\chi^2/\text{NDF}: 46.1/42$

In: -0.780 ± 1.930 $\chi^2/\text{NDF}: 55.4/42$

Out: -6.744 ± 1.866 $\chi^2/\text{NDF}: 88.0/47$

All: -3.861 ± 1.342 $\chi^2/\text{NDF}: 148.3/90$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 13397.976 $\pm$ 3.455 χ^2 /NDF: 1294157.6/19

Left Out: 8602.220 $\pm$ 1.429 χ^2 /NDF: 438805.2/24

Right Out: 13900.052 $\pm$ 3.442 χ^2 /NDF: 1520893.8/22

Left In: 8691.203 $\pm$ 1.485 χ^2 /NDF: 365254.6/22

Left: 8644.996 $\pm$ 1.030 χ^2 /NDF: 805923.5/47

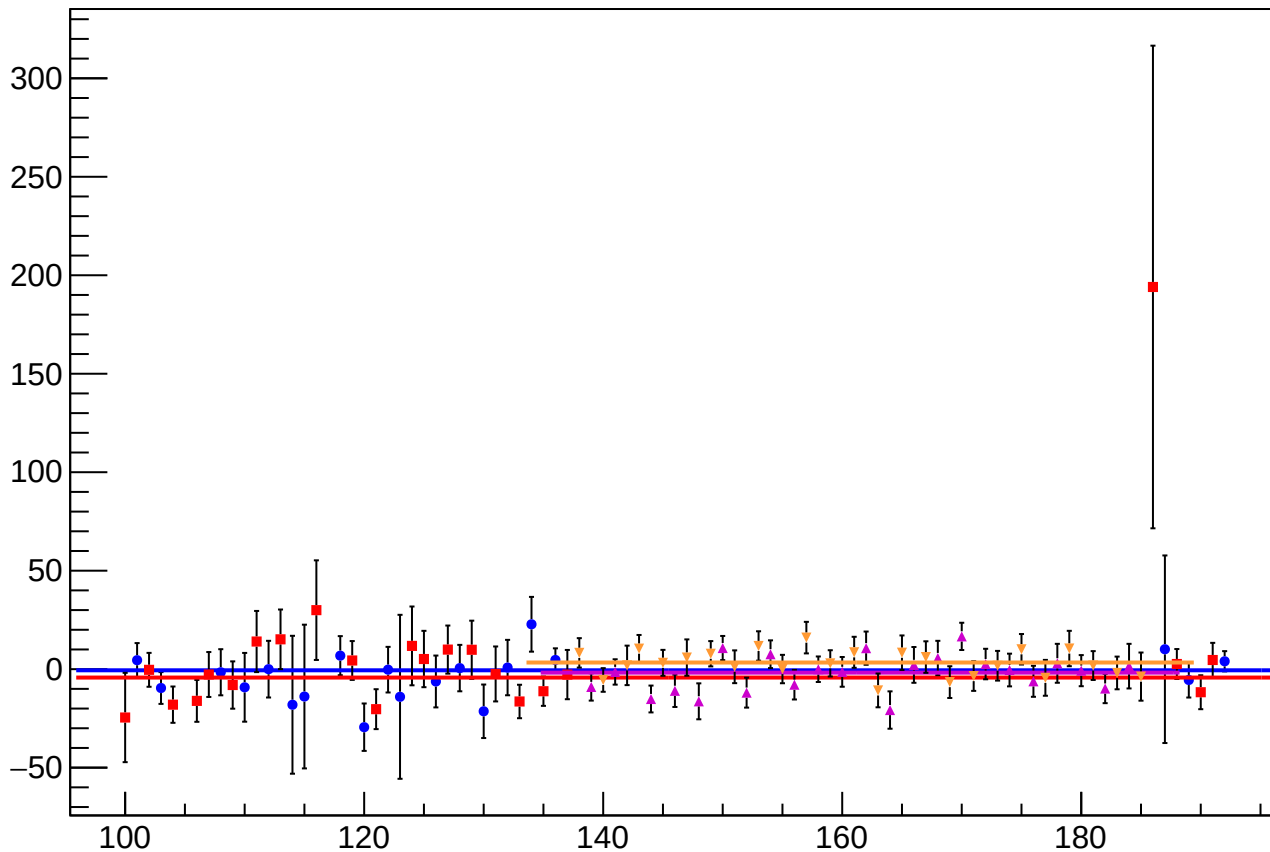
Right: 13649.978 $\pm$ 2.438 χ^2 /NDF: 2825651.0/42

In: 9425.386 $\pm$ 1.365 χ^2 /NDF: 3225852.5/42

Out: 9381.287 $\pm$ 1.320 χ^2 /NDF: 3980728.3/47

All: 9402.602 $\pm$ 0.949 χ^2 /NDF: 7207120.5/90

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -0.570 ± 2.365 χ^2/NDF : 16.0/19

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

Right Out: -4.261 ± 2.312 χ^2/NDF : 24.3/22

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

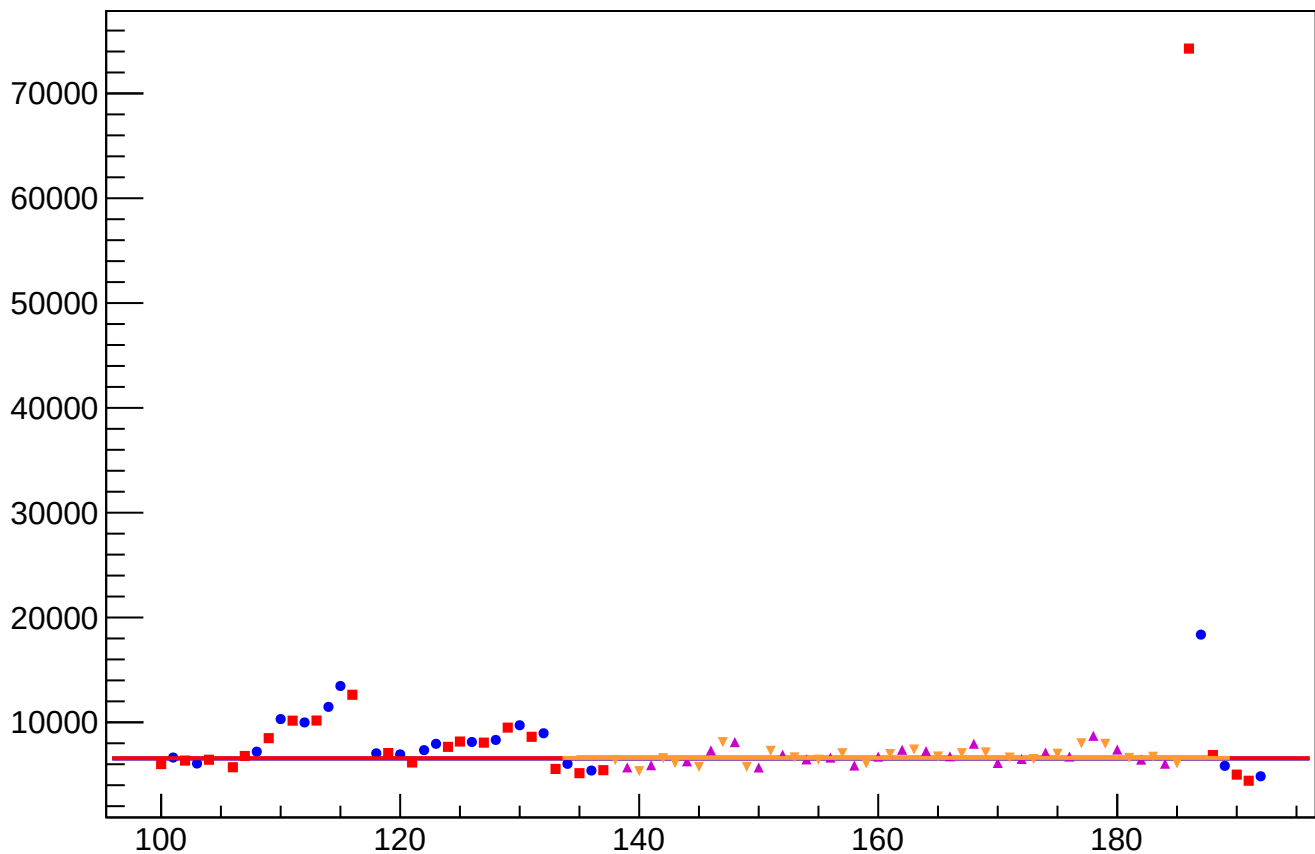
Right: -2.457 ± 1.653 χ^2/NDF : 41.5/42

In: -1.381 ± 1.329 χ^2/NDF : 49.7/42

Out: 1.003 ± 1.289 χ^2/NDF : 49.0/47

All: -0.152 ± 0.925 χ^2/NDF : 100.3/90

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6542.518 $\pm$ 1.672 χ^2/NDF : 1024144.4/19

Left Out: 6603.953 $\pm$ 1.097 χ^2/NDF : 395247.5/24

Right Out: 6574.642 $\pm$ 1.635 χ^2/NDF : 1512263.2/22

Left In: 6637.155 $\pm$ 1.136 χ^2/NDF : 415547.5/22

Left: 6619.974 $\pm$ 0.789 χ^2/NDF : 811236.9/47

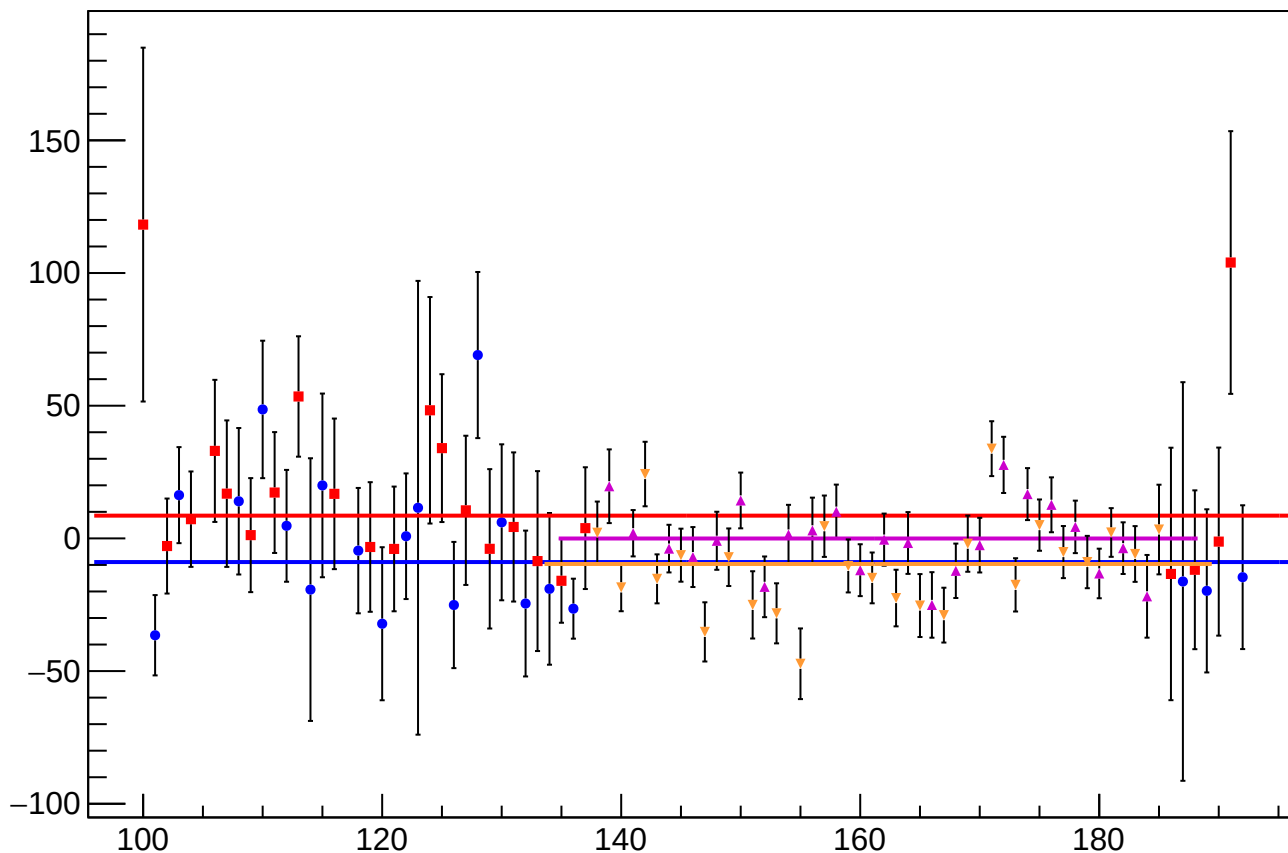
Right: 6558.939 $\pm$ 1.169 χ^2/NDF : 2536596.3/42

In: 6607.255 $\pm$ 0.940 χ^2/NDF : 1441883.5/42

Out: 6594.851 $\pm$ 0.911 χ^2/NDF : 1907732.3/47

All: 6600.861 $\pm$ 0.654 χ^2/NDF : 3349705.6/90

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.915 ± 5.303 $\chi^2/\text{NDF}: 22.9/19$

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

Right Out: 8.573 ± 5.351 $\chi^2/\text{NDF}: 17.9/22$

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

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

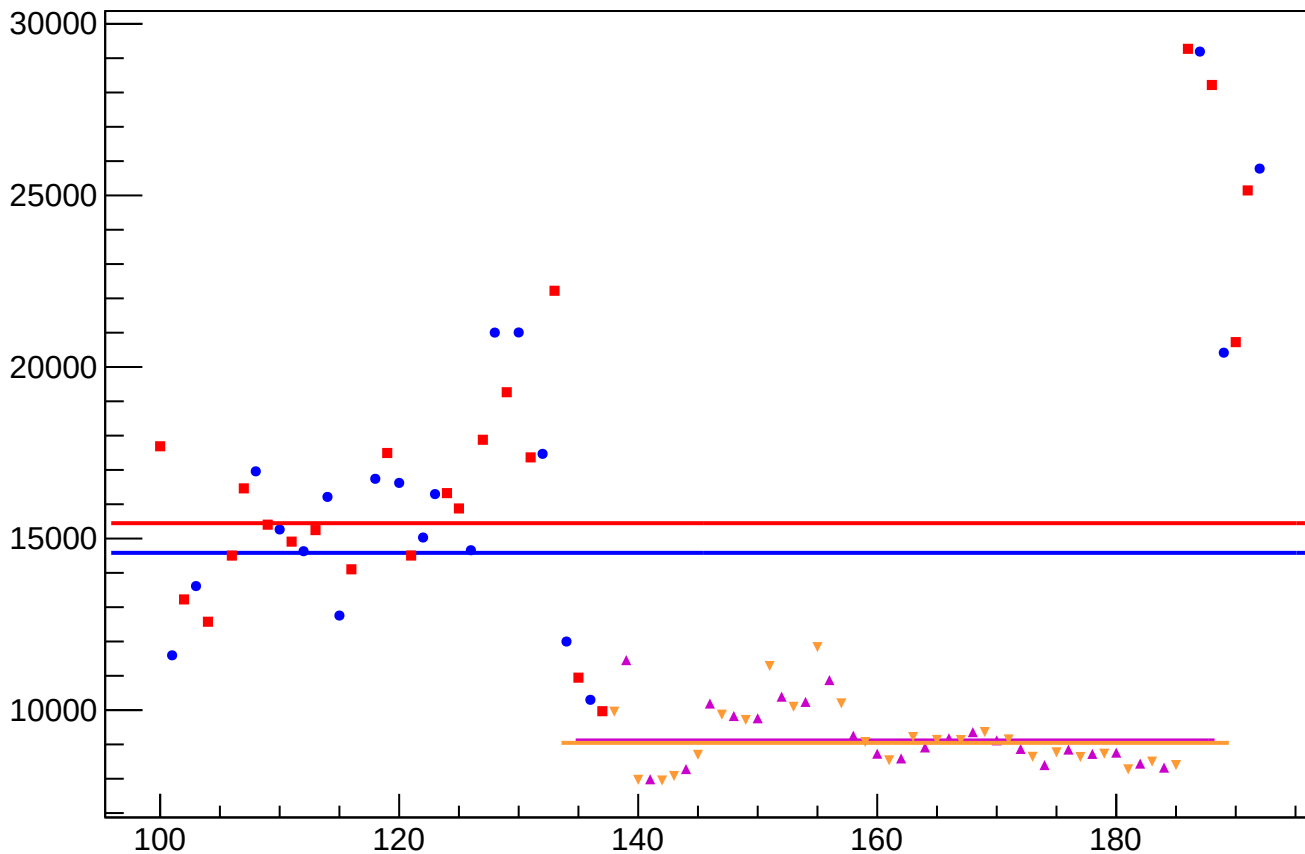
Right: -0.249 ± 3.766 $\chi^2/\text{NDF}: 46.2/42$

In: -1.345 ± 2.032 $\chi^2/\text{NDF}: 56.1/42$

Out: -7.165 ± 1.972 $\chi^2/\text{NDF}: 87.8/47$

All: -4.342 ± 1.415 $\chi^2/\text{NDF}: 148.1/90$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14583.193 +/- 3.750 χ^2/NDF : 1130611.8/19

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

Right Out: 15448.038 +/- 3.783 χ^2/NDF : 1180699.5/22

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

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

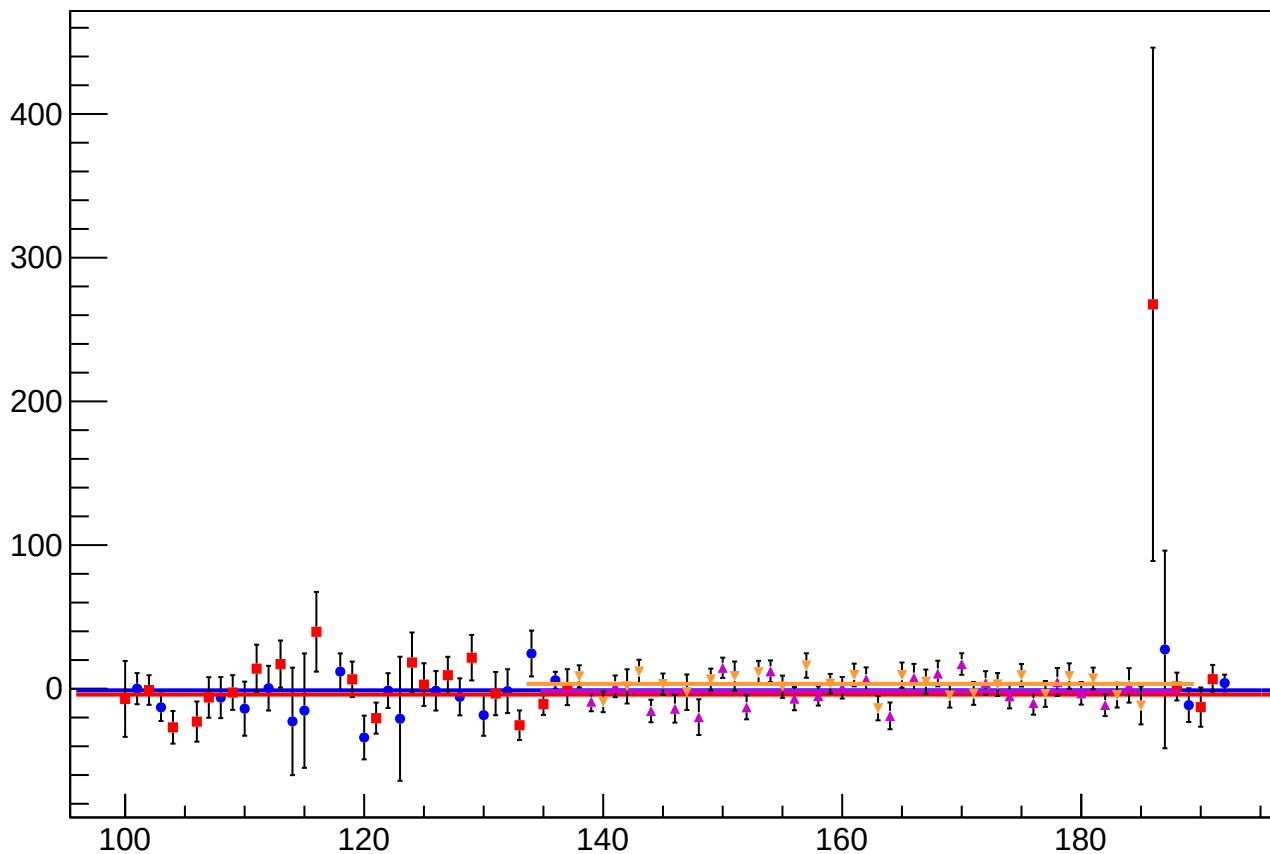
Right: 15011.741 +/- 2.663 χ^2/NDF : 2337671.1/42

In: 9918.741 +/- 1.437 χ^2/NDF : 3216852.2/42

Out: 9915.784 +/- 1.395 χ^2/NDF : 3983488.1/47

All: 9917.218 +/- 1.001 χ^2/NDF : 7200342.5/90

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.060 $\pm$ 2.663 χ^2/NDF : 15.8/19

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

Right Out: -4.013 $\pm$ 2.673 χ^2/NDF : 28.9/22

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

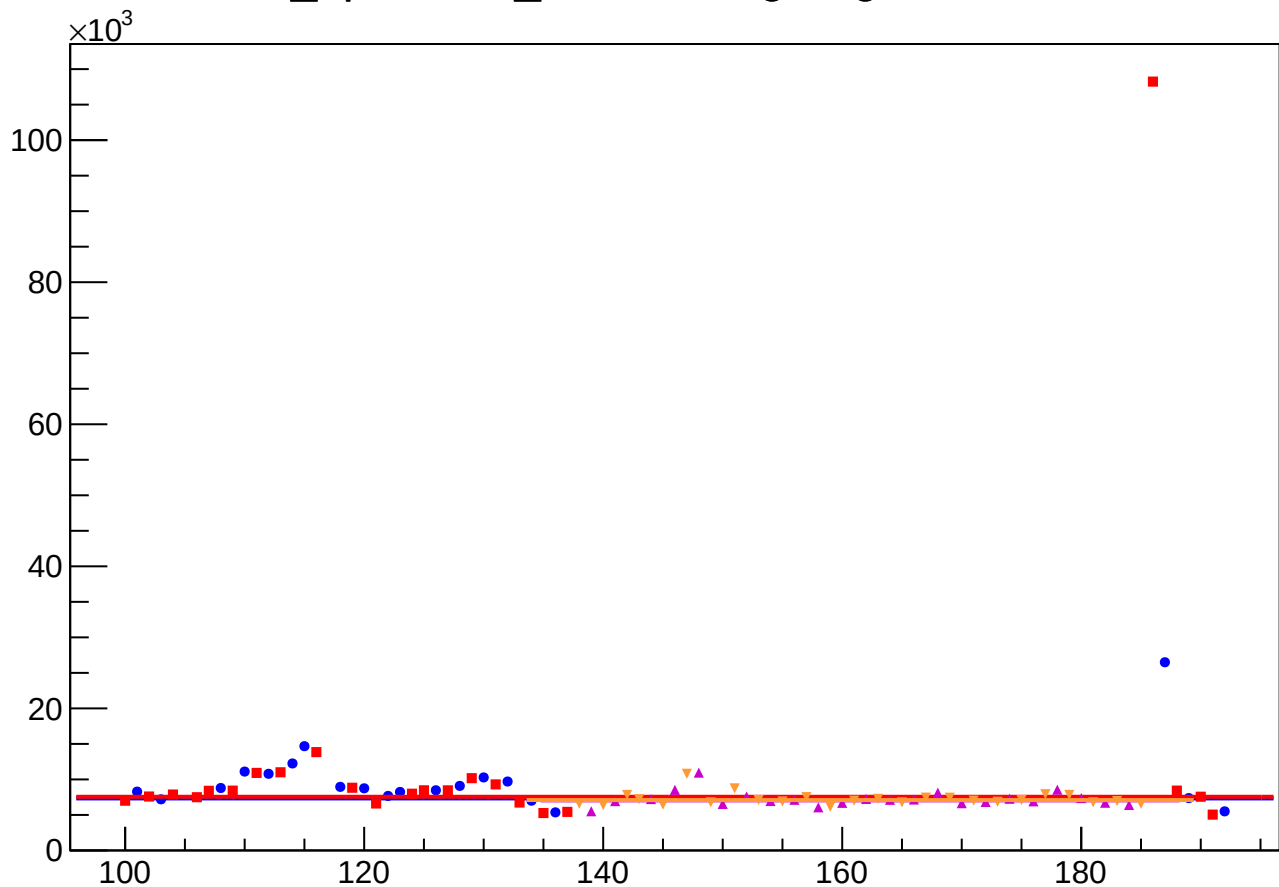
Right: -2.532 $\pm$ 1.887 χ^2/NDF : 45.3/42

In: -1.357 $\pm$ 1.439 χ^2/NDF :52.6/42

Out: 1.313 $\pm$ 1.415 χ^2/NDF :53.8/47

All: 0.000 $\pm$ 1.009 χ^2/NDF : 108.1/90

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7325.406 $\pm$ 1.883 χ^2/NDF : 1133761.1/19

Left Out: 7096.350 $\pm$ 1.179 χ^2/NDF : 381942.1/24

Right Out: 7558.090 $\pm$ 1.890 χ^2/NDF : 1459594.5/22

Left In: 7047.269 $\pm$ 1.209 χ^2/NDF : 517433.5/22

Left: 7072.425 $\pm$ 0.844 χ^2/NDF : 900219.9/47

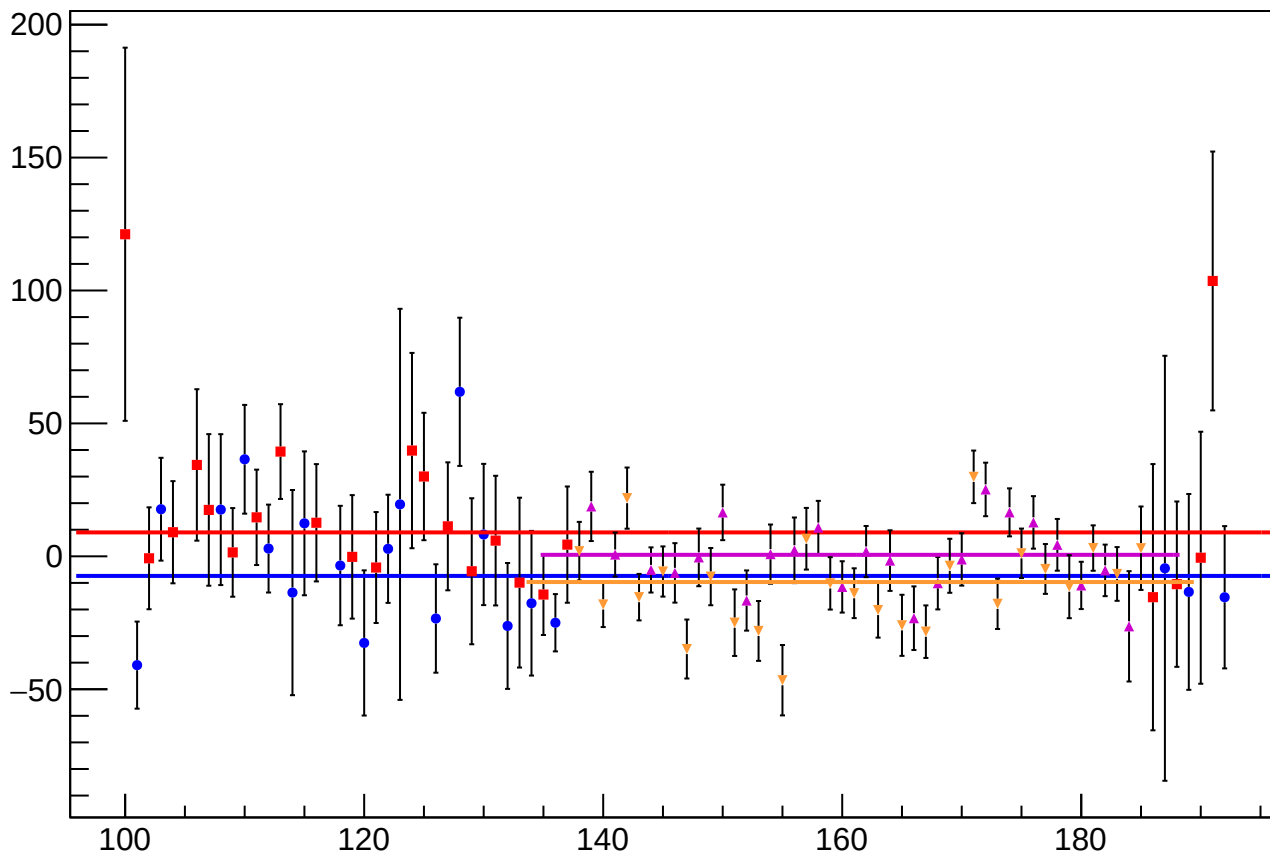
Right: 7441.352 $\pm$ 1.334 χ^2/NDF : 2600961.4/42

In: 7128.465 $\pm$ 1.018 χ^2/NDF : 1666637.1/42

Out: 7225.770 $\pm$ 1.001 χ^2/NDF : 1884502.1/47

All: 7177.942 $\pm$ 0.713 χ^2/NDF : 3555788.5/90

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.370 $\pm$ 4.951 χ^2/NDF : 24.2/19

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

Right Out: 8.998 $\pm$ 4.936 χ^2/NDF : 16.5/22

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

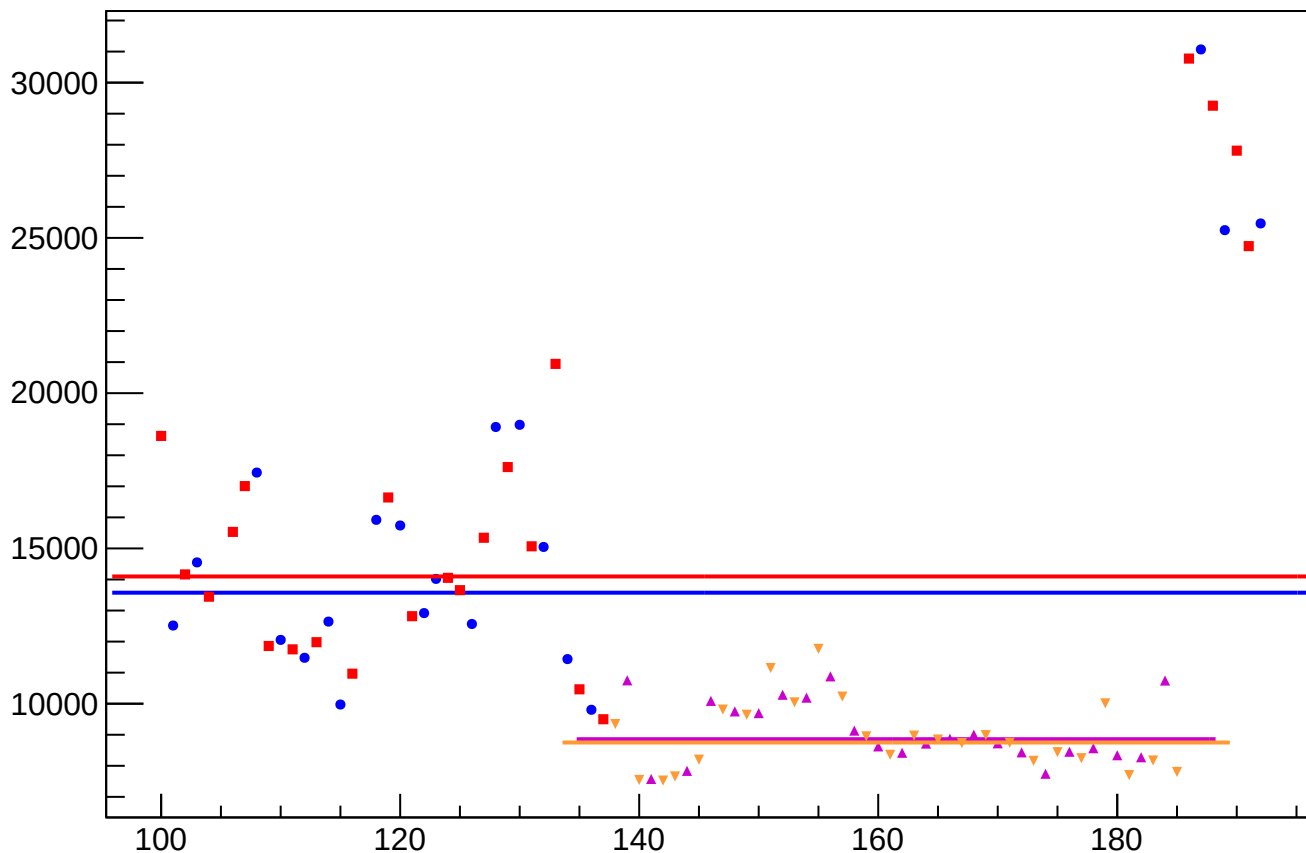
Right: 0.839 $\pm$ 3.495 χ^2/NDF : 46.1/42

In: -0.689 $\pm$ 1.967 χ^2/NDF : 56.1/42

Out: -6.899 $\pm$ 1.902 χ^2/NDF : 86.6/47

All: -3.899 $\pm$ 1.367 χ^2/NDF : 147.8/90

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13574.443 $\pm$ 3.501 χ^2 /NDF: 1284328.1/19

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

Right Out: 14097.492 $\pm$ 3.490 χ^2 /NDF: 1502940.8/22

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

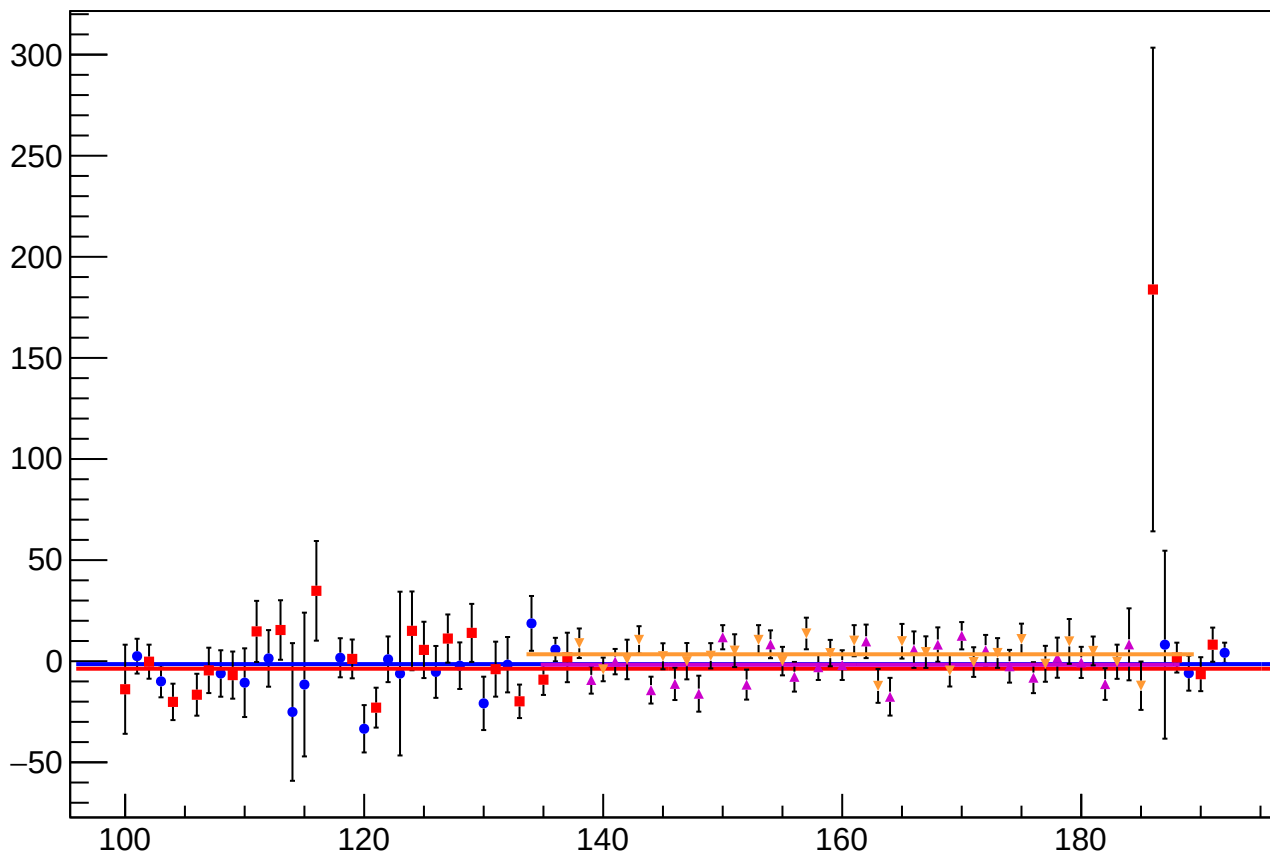
Right: 13836.773 $\pm$ 2.472 χ^2 /NDF: 2798464.6/42

In: 9602.055 $\pm$ 1.391 χ^2 /NDF: 3175036.1/42

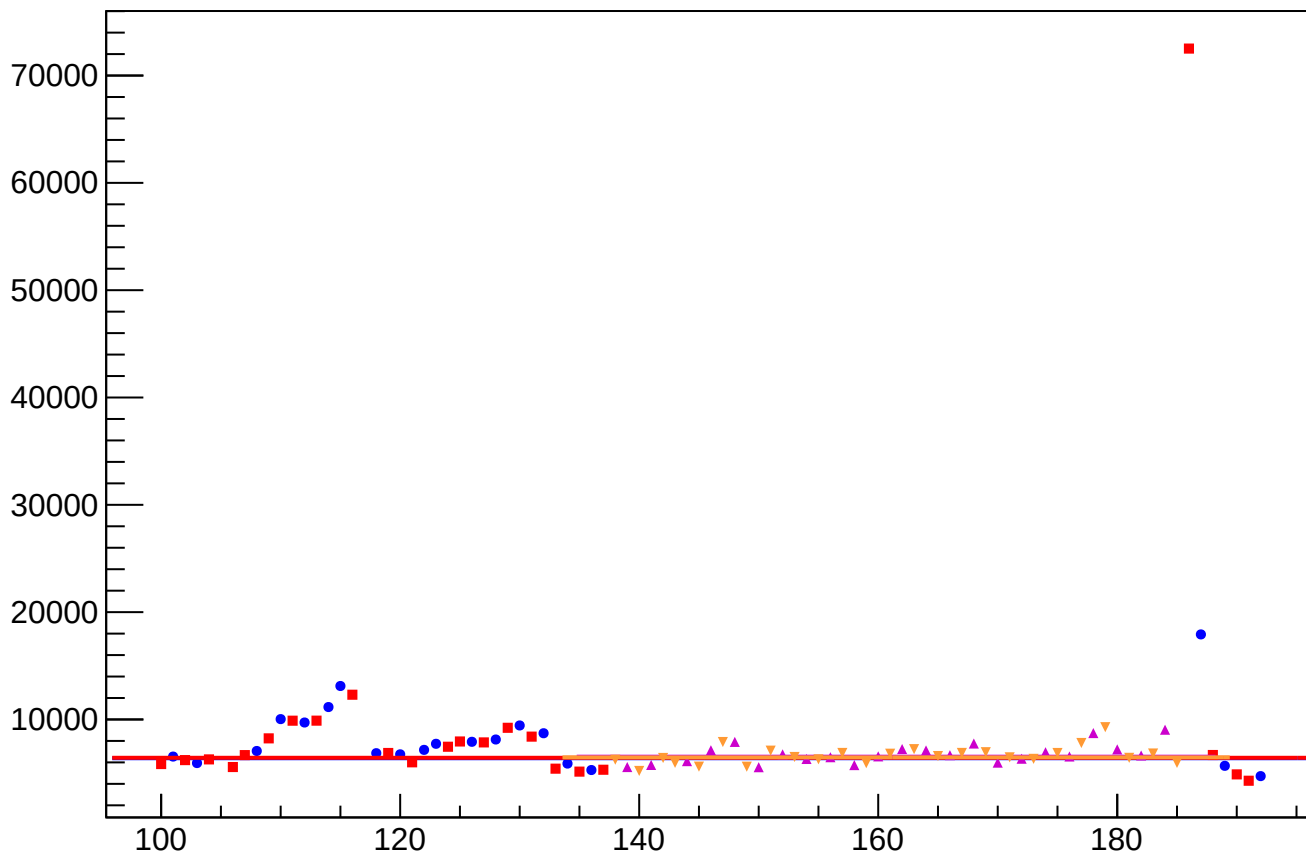
Out: 9544.091 $\pm$ 1.345 χ^2 /NDF: 3965700.4/47

All: 9572.090 $\pm$ 0.967 χ^2 /NDF: 7141634.2/90

diff_bpm4ecY_mean vs Slug, Sign Corrected



diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6388.134+/-1.634 χ^2/NDF : 1020771.7/19

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

Right Out: 6429.093+/-1.600 χ^2/NDF : 1493481.3/22

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

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

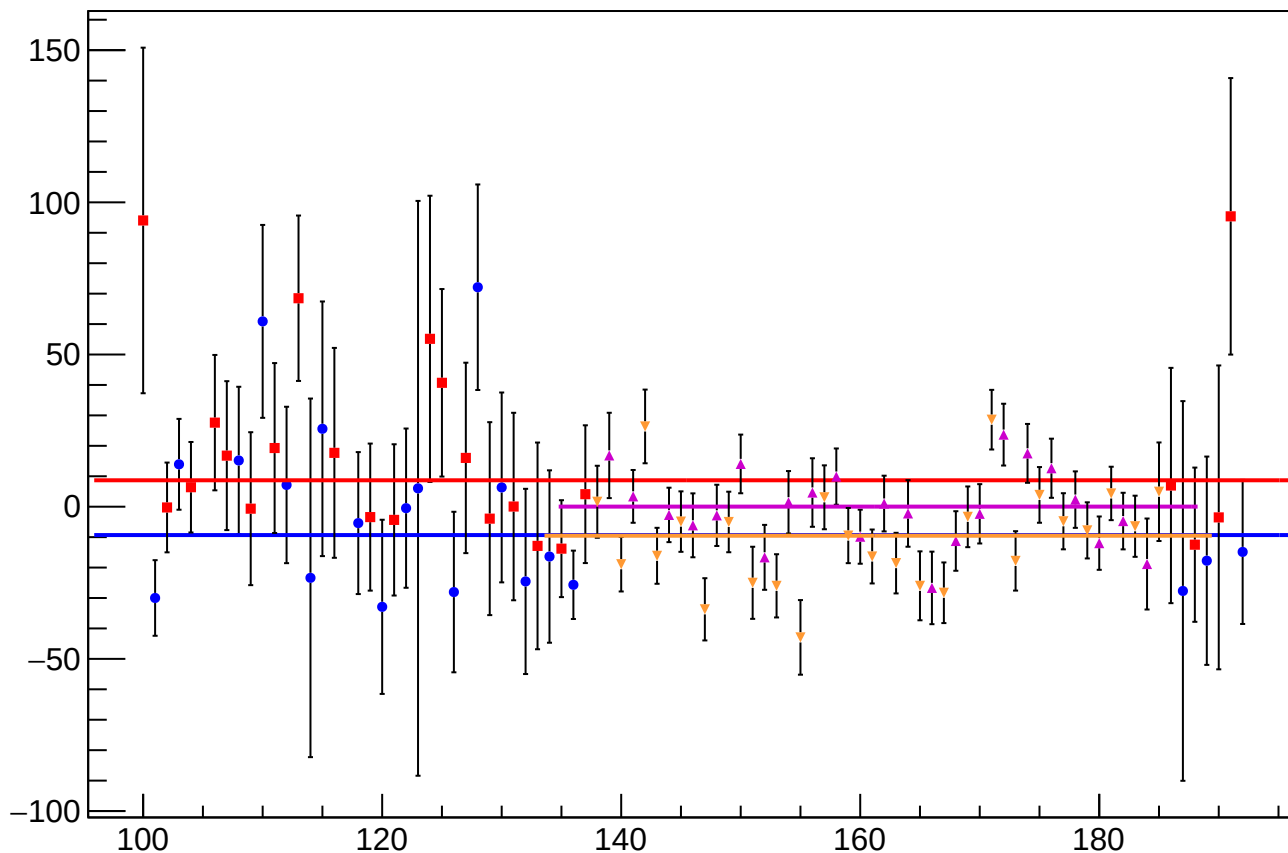
Right: 6409.046+/-1.143 χ^2/NDF : 2514573.9/42

In: 6485.220+/-0.925 χ^2/NDF : 1490634.7/42

Out: 6456.436+/-0.894 χ^2/NDF : 1981093.7/47

All: 6470.352+/-0.643 χ^2/NDF : 3472229.1/90

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.322 ± 5.187 χ^2/NDF : 22.3/19

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

Right Out: 8.677 ± 5.272 χ^2/NDF : 18.4/22

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

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

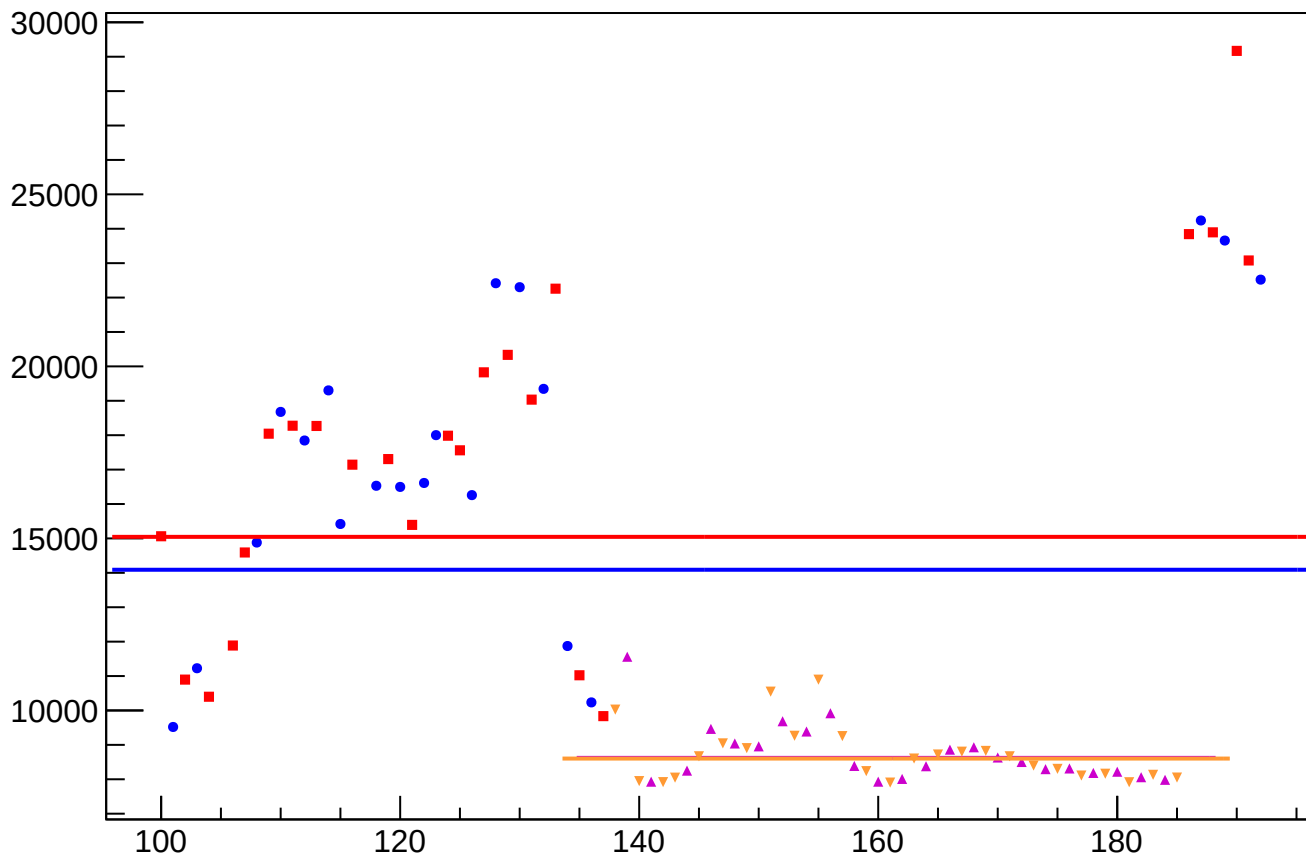
Right: -0.469 ± 3.697 χ^2/NDF : 46.7/42

In: -1.268 ± 1.930 χ^2/NDF : 55.0/42

Out: -7.208 ± 1.882 χ^2/NDF : 88.4/47

All: -4.313 ± 1.348 χ^2/NDF : 148.2/90

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 14089.358+/-3.667 χ^2/NDF : 1551260.4/19

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

Right Out: 15045.525+/-3.728 χ^2/NDF : 1554704.0/22

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

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

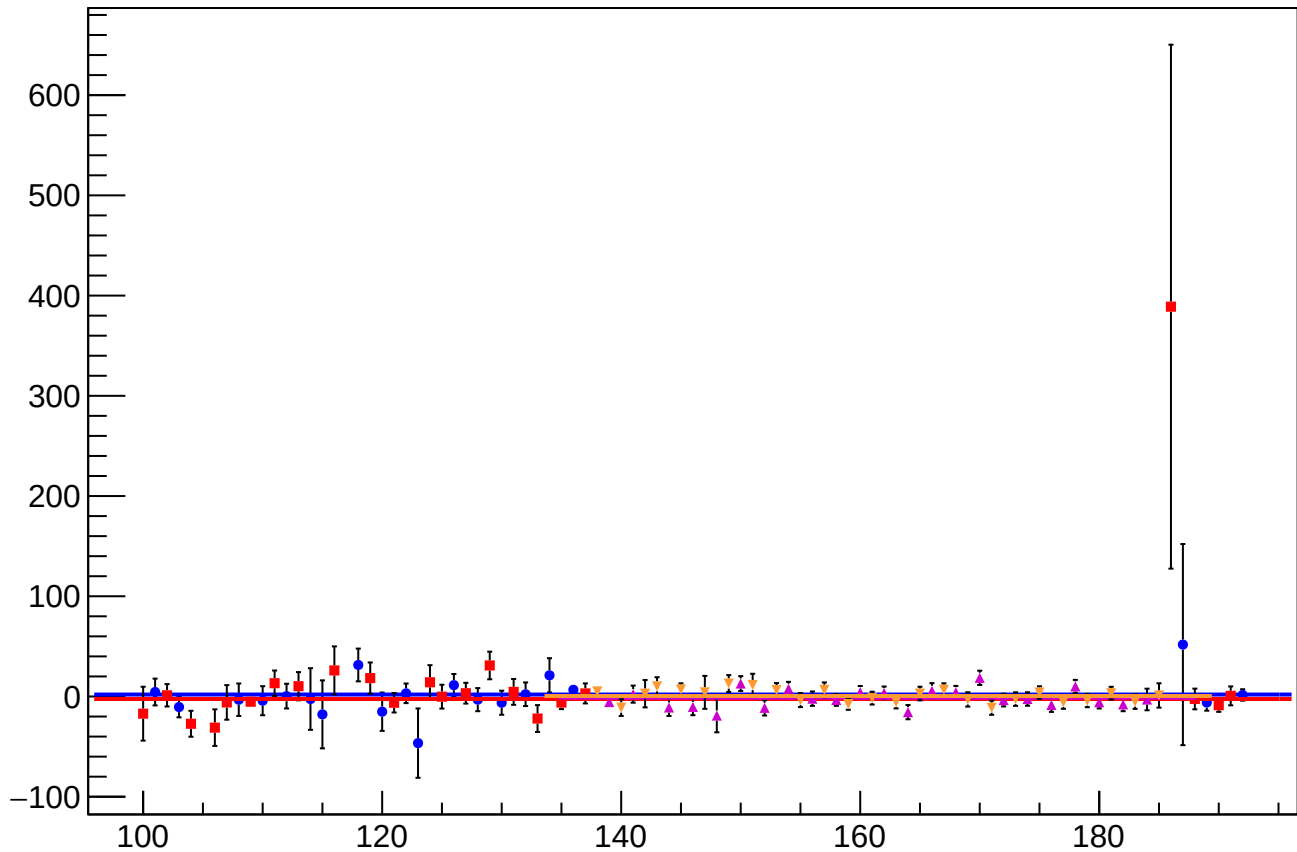
Right: 14559.621+/-2.614 χ^2/NDF : 3139394.3/42

In: 9379.361+/-1.365 χ^2/NDF : 3696610.7/42

Out: 9423.363+/-1.331 χ^2/NDF : 4410258.6/47

All: 9401.916+/-0.953 χ^2/NDF : 8107402.0/90

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.950 $\pm$ 2.375 χ^2/NDF : 13.1/19

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

Right Out: -2.497 $\pm$ 2.177 χ^2/NDF : 26.1/22

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

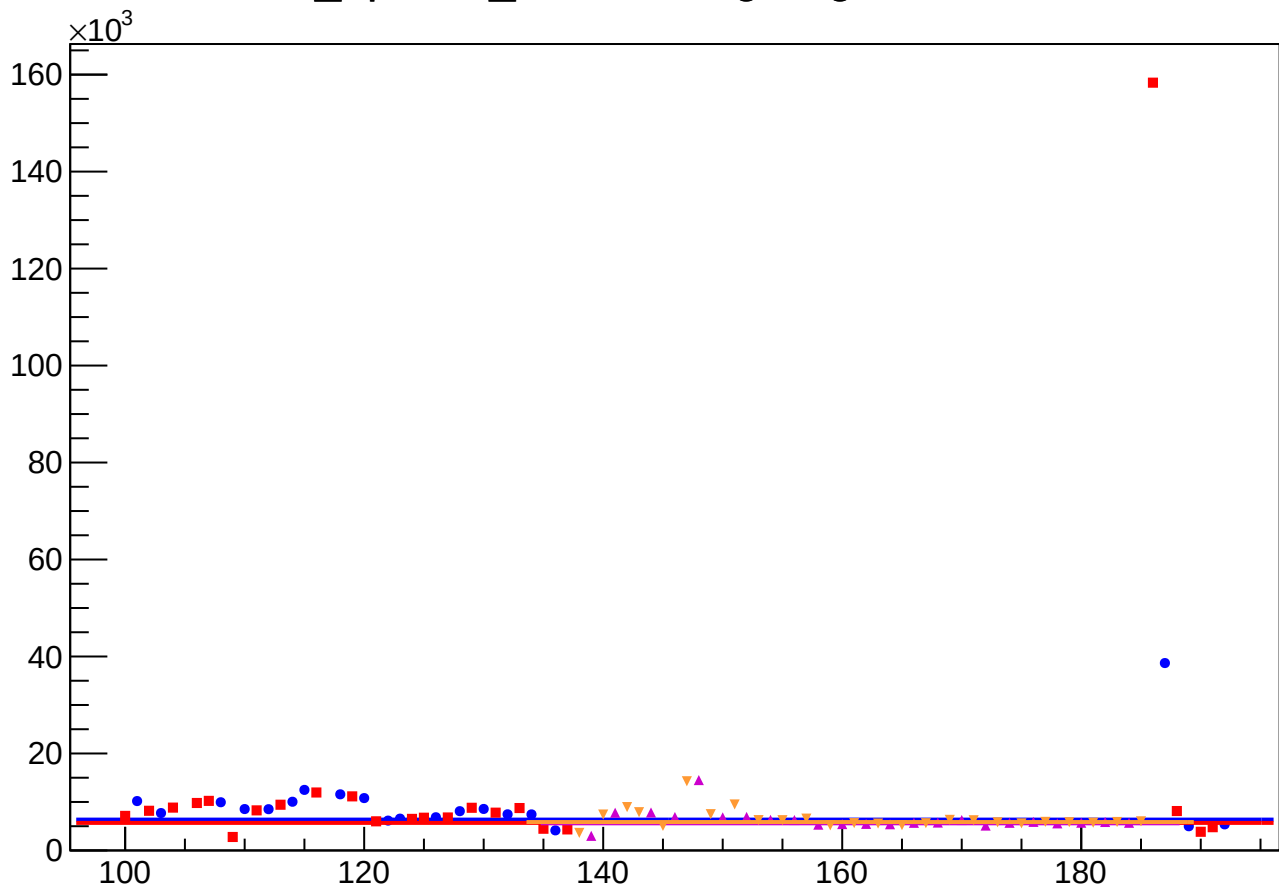
Right: -0.466 $\pm$ 1.605 χ^2/NDF : 41.1/42

In: -0.455 $\pm$ 1.210 χ^2/NDF : 47.5/42

Out: -0.407 $\pm$ 1.189 χ^2/NDF : 46.9/47

All: -0.431 $\pm$ 0.848 χ^2/NDF : 94.5/90

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6362.951 ± 1.679 $\chi^2/\text{NDF}: 1748596.1/19$

Left Out: 5858.642 ± 1.004 $\chi^2/\text{NDF}: 1691344.1/24$

Right Out: 5683.553 ± 1.540 $\chi^2/\text{NDF}: 3254755.3/22$

Left In: 5596.879 ± 0.994 $\chi^2/\text{NDF}: 2089750.1/22$

Left: 5726.555 ± 0.706 $\chi^2/\text{NDF}: 3815425.5/47$

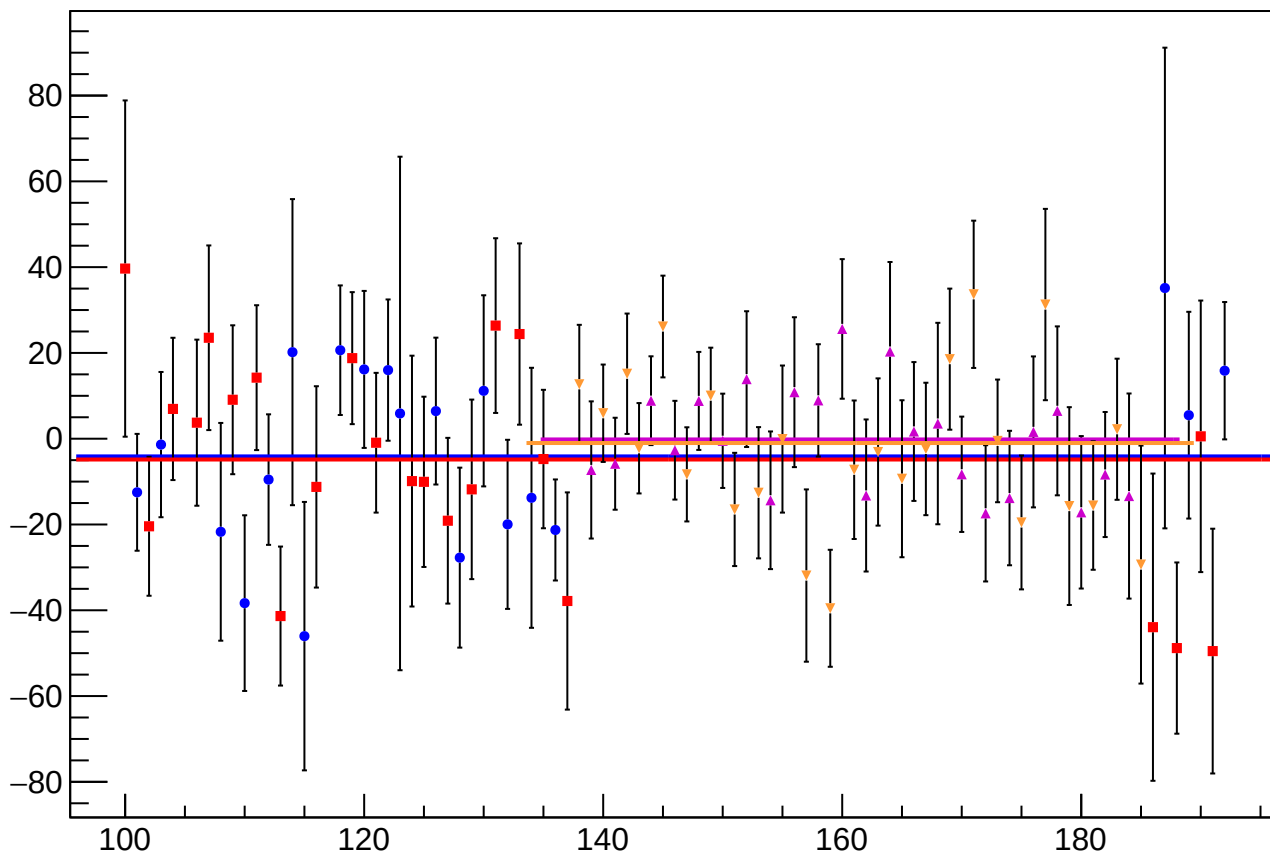
Right: 5993.869 ± 1.135 $\chi^2/\text{NDF}: 5092293.9/42$

In: 5795.786 ± 0.856 $\chi^2/\text{NDF}: 3992459.7/42$

Out: 5806.433 ± 0.841 $\chi^2/\text{NDF}: 4955176.1/47$

All: 5801.203 ± 0.600 $\chi^2/\text{NDF}: 8947714.6/90$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.127 ± 4.273 χ^2/NDF : 18.7/19

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

Right Out: -4.851 ± 4.167 χ^2/NDF : 29.4/22

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

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

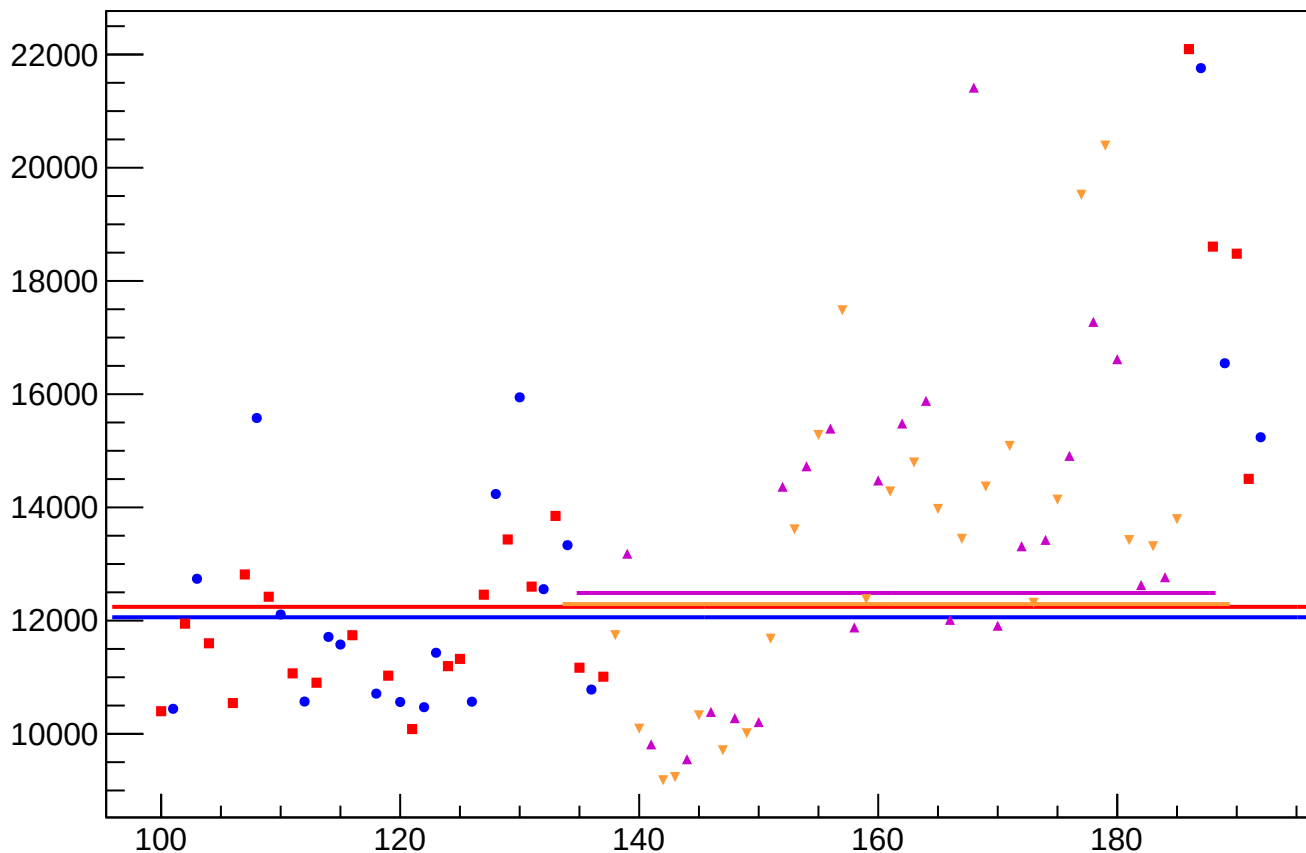
Right: -4.498 ± 2.983 χ^2/NDF : 48.1/42

In: -1.517 ± 2.492 χ^2/NDF : 31.6/42

Out: -2.286 ± 2.403 χ^2/NDF : 63.4/47

All: -1.915 ± 1.730 χ^2/NDF : 95.1/90

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12059.424+/-3.021 χ^2/NDF : 471757.2/19

Left Out: 12292.583+/-2.080 χ^2/NDF : 1502548.3/24

Right Out: 12243.708+/-2.946 χ^2/NDF : 581135.9/22

Left In: 12488.821+/-2.169 χ^2/NDF : 1354485.4/22

Left: 12386.599+/-1.501 χ^2/NDF : 2861298.1/47

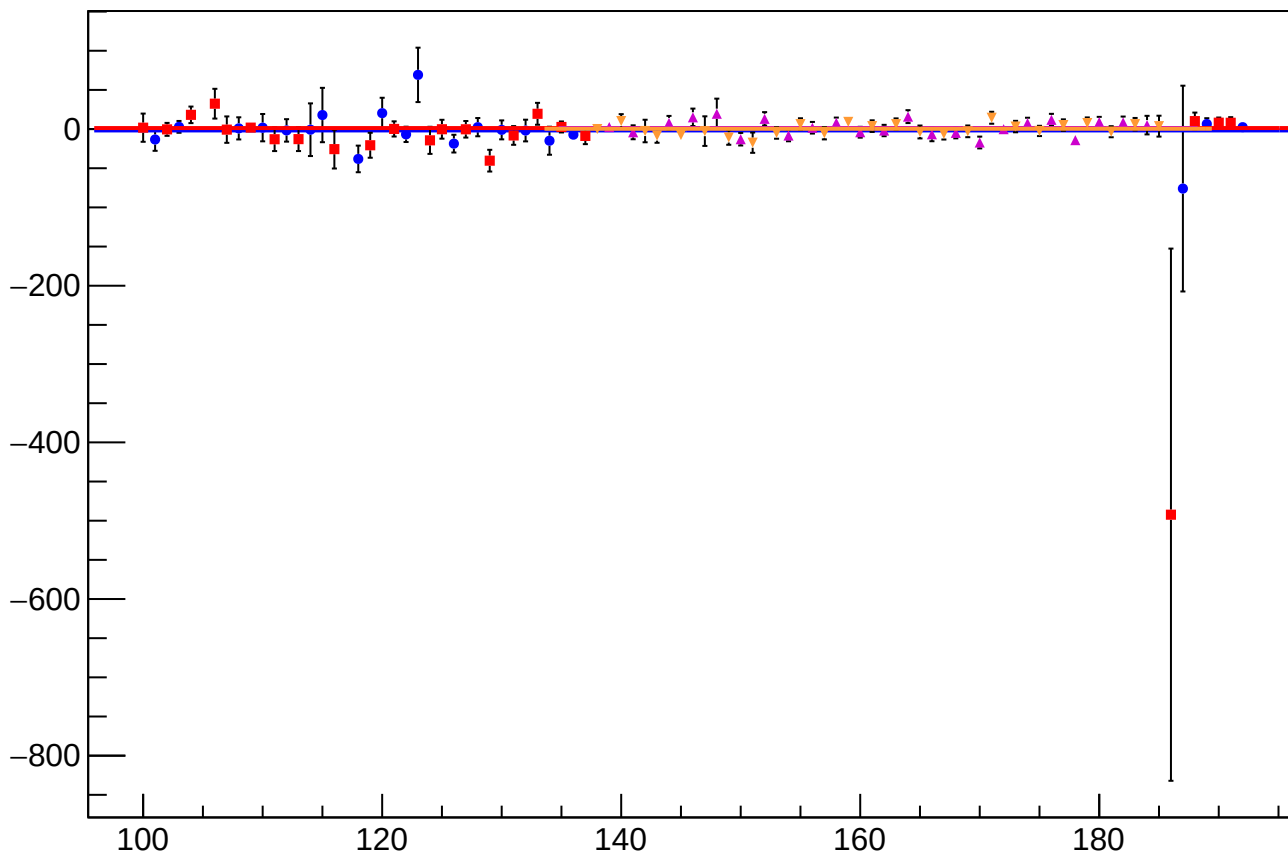
Right: 12153.878+/-2.109 χ^2/NDF : 1054800.1/42

In: 12342.784+/-1.762 χ^2/NDF : 1839573.3/42

Out: 12276.326+/-1.699 χ^2/NDF : 2083867.8/47

All: 12308.352+/-1.223 χ^2/NDF : 3924178.3/95

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -1.736 ± 2.225 χ^2/NDF : 18.4/19

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

Right Out: 1.295 ± 2.130 χ^2/NDF : 28.1/22

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

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

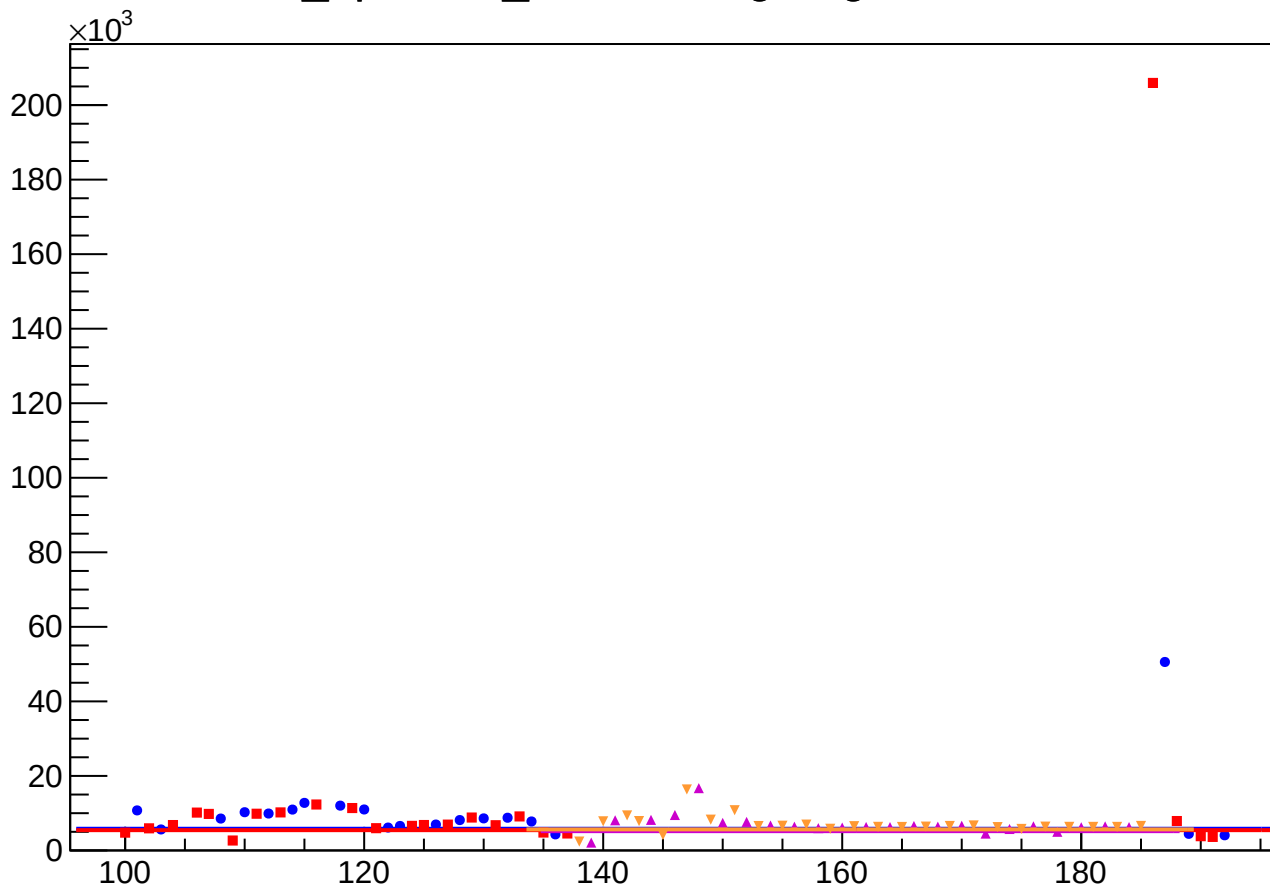
Right: -0.155 ± 1.539 χ^2/NDF : 47.4/42

In: 0.436 ± 1.176 χ^2/NDF : 53.7/42

Out: 0.686 ± 1.190 χ^2/NDF : 47.5/47

All: 0.560 ± 0.837 χ^2/NDF : 101.2/90

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5820.830 $\pm$ 1.573 χ^2/NDF : 2292168.3/19

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

Right Out: 5447.069 $\pm$ 1.506 χ^2/NDF : 3242108.3/22

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

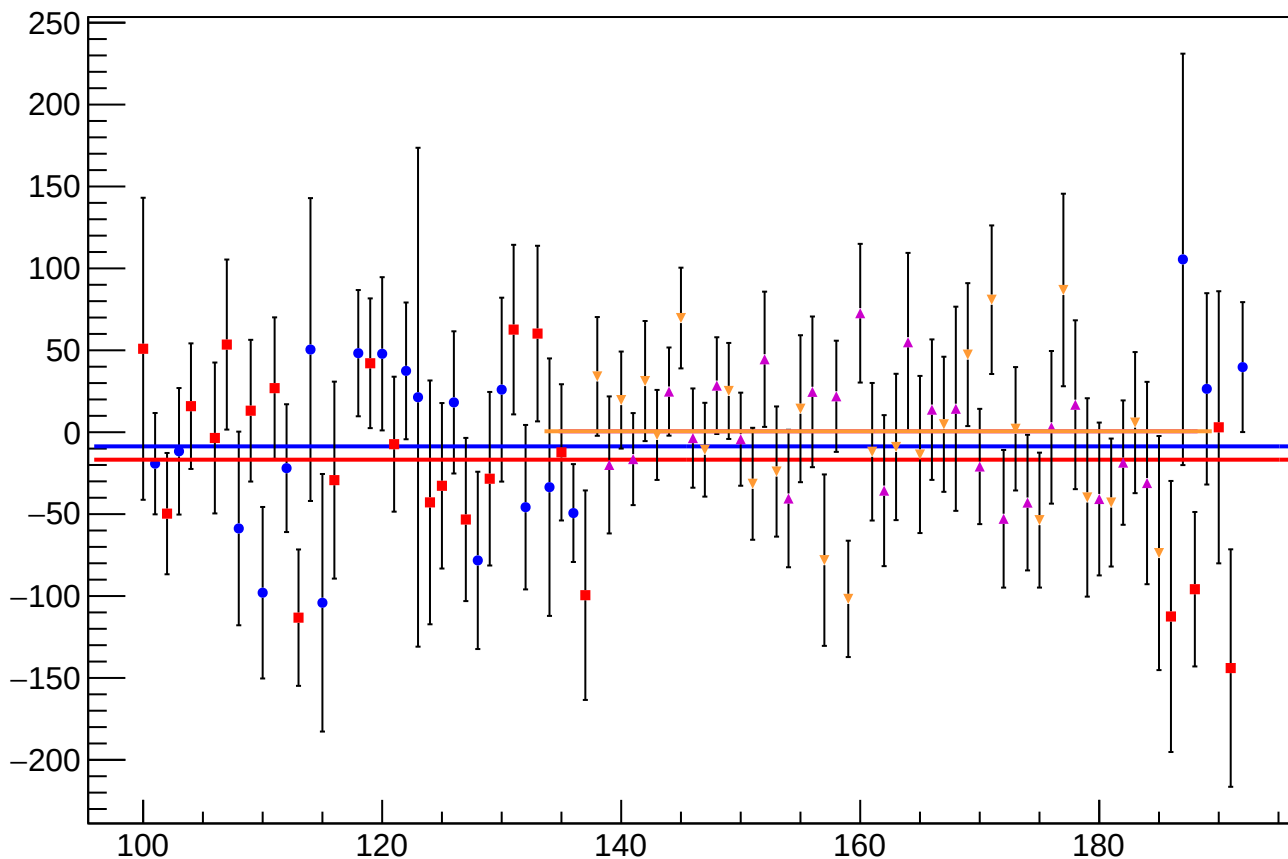
Right: 5625.809 $\pm$ 1.088 χ^2/NDF : 5563726.8/42

In: 5359.645 $\pm$ 0.832 χ^2/NDF : 7761490.7/42

Out: 5590.552 $\pm$ 0.841 χ^2/NDF : 7379425.0/47

All: 5473.768 $\pm$ 0.592 χ^2/NDF : 15179008.7/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.637 ± 10.593 χ^2/NDF : 18.2/19

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

Right Out: -16.766 ± 10.353 χ^2/NDF : 27.3/22

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

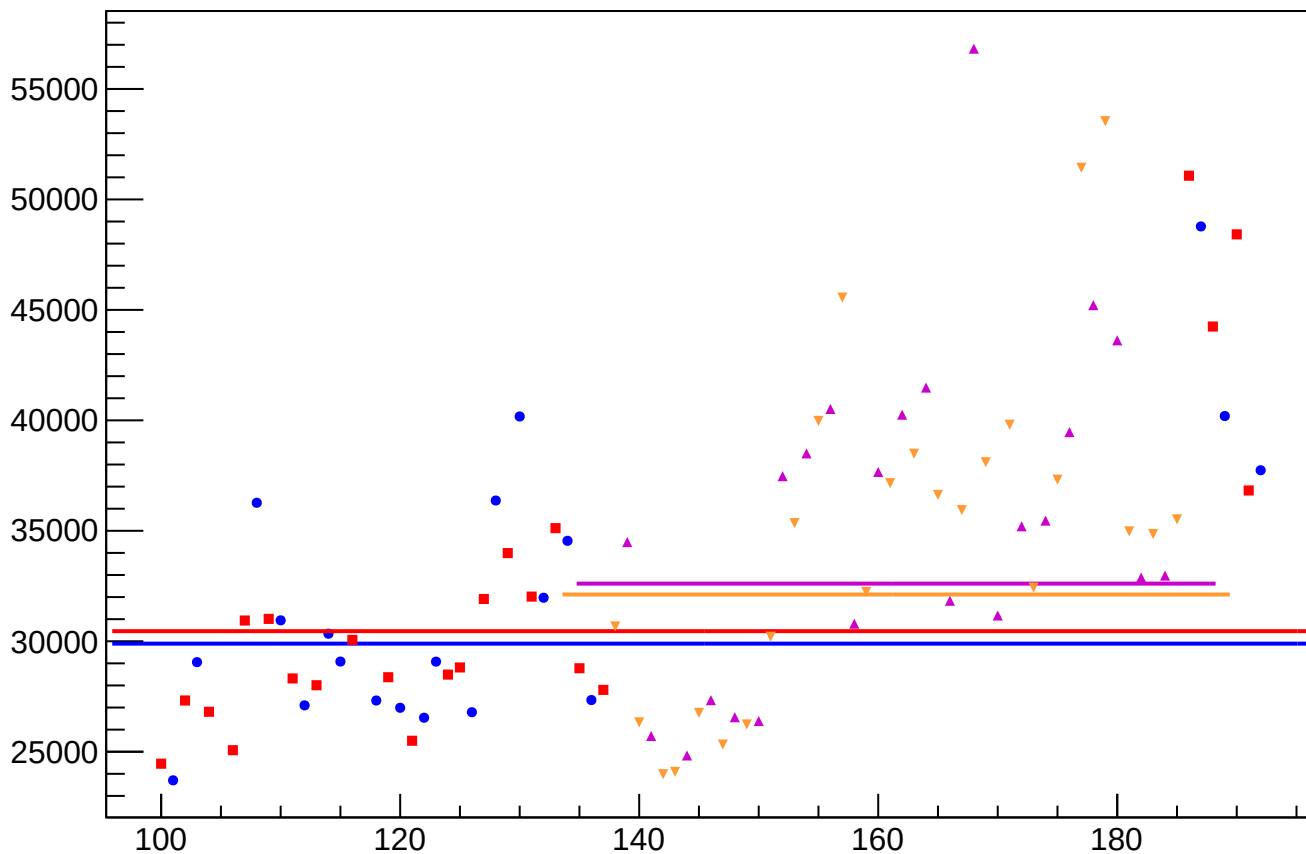
Right: -12.794 ± 7.404 χ^2/NDF : 45.9/42

In: -2.785 ± 6.391 χ^2/NDF : 33.0/42

Out: -5.588 ± 6.174 χ^2/NDF : 60.1/47

All: -4.235 ± 4.440 χ^2/NDF : 93.2/90

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29892.591+/-7.490

χ^2/NDF : 462029.5/19

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 30457.641+/-7.321

χ^2/NDF : 557394.0/22

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483+/-3.924

χ^2/NDF : 2939154.5/47

Right: 30181.576+/-5.235

χ^2/NDF : 1022334.1/42

In: 31620.805+/-4.519

χ^2/NDF : 1944215.5/42

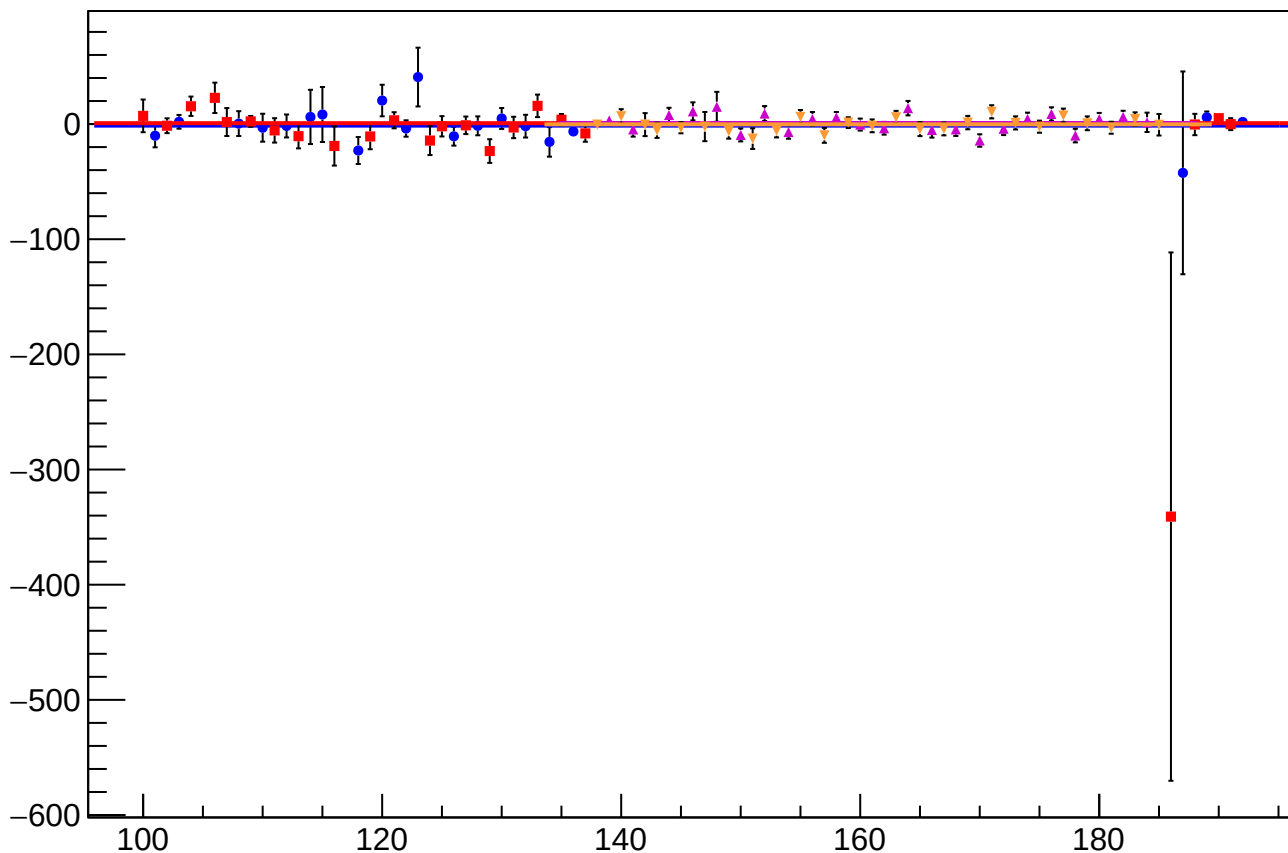
Out: 31527.090+/-4.365

χ^2/NDF : 2127248.8/47

All: 31572.325+/-3.140

χ^2/NDF : 4071686.8/9

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.352 ± 1.603 χ^2/NDF : 18.7/19

Left Out: -0.255 ± 1.173 χ^2/NDF : 18.0/24

Right Out: 0.768 ± 1.609 χ^2/NDF : 25.2/22

Left In: 0.925 ± 1.154 χ^2/NDF : 36.1/22

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

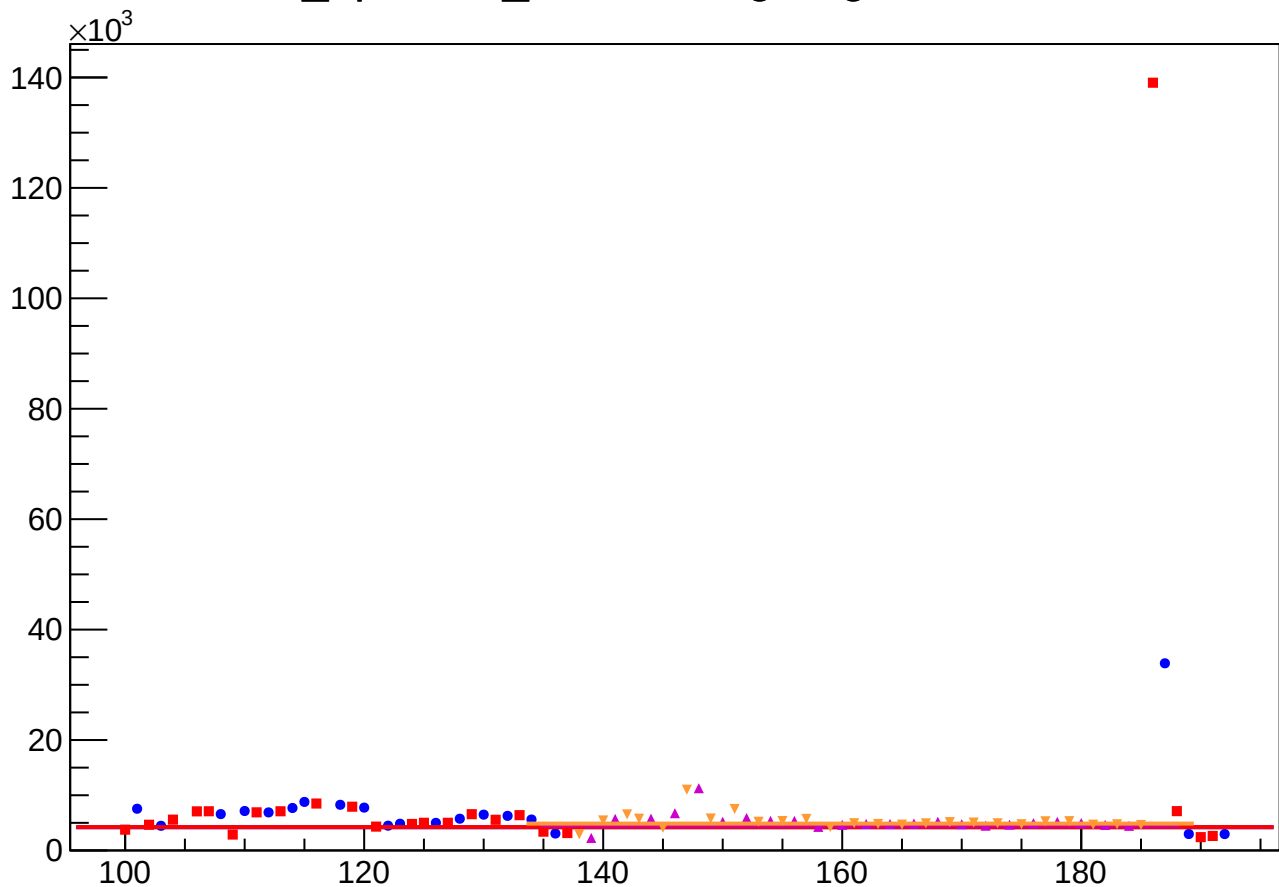
Right: -0.296 ± 1.136 χ^2/NDF : 44.8/42

In: 0.149 ± 0.936 χ^2/NDF : 56.2/42

Out: 0.100 ± 0.948 χ^2/NDF : 43.5/47

All: 0.124 ± 0.666 χ^2/NDF : 99.7/90

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4200.170 $\pm$ 1.134 χ^2/NDF : 2298699.8/19

Left Out: 4866.528 $\pm$ 0.829 χ^2/NDF : 1511486.2/24

Right Out: 4232.178 $\pm$ 1.138 χ^2/NDF : 2901630.9/22

Left In: 4582.193 $\pm$ 0.816 χ^2/NDF : 2478681.0/22

Left: 4722.017 $\pm$ 0.582 χ^2/NDF : 4049906.1/47

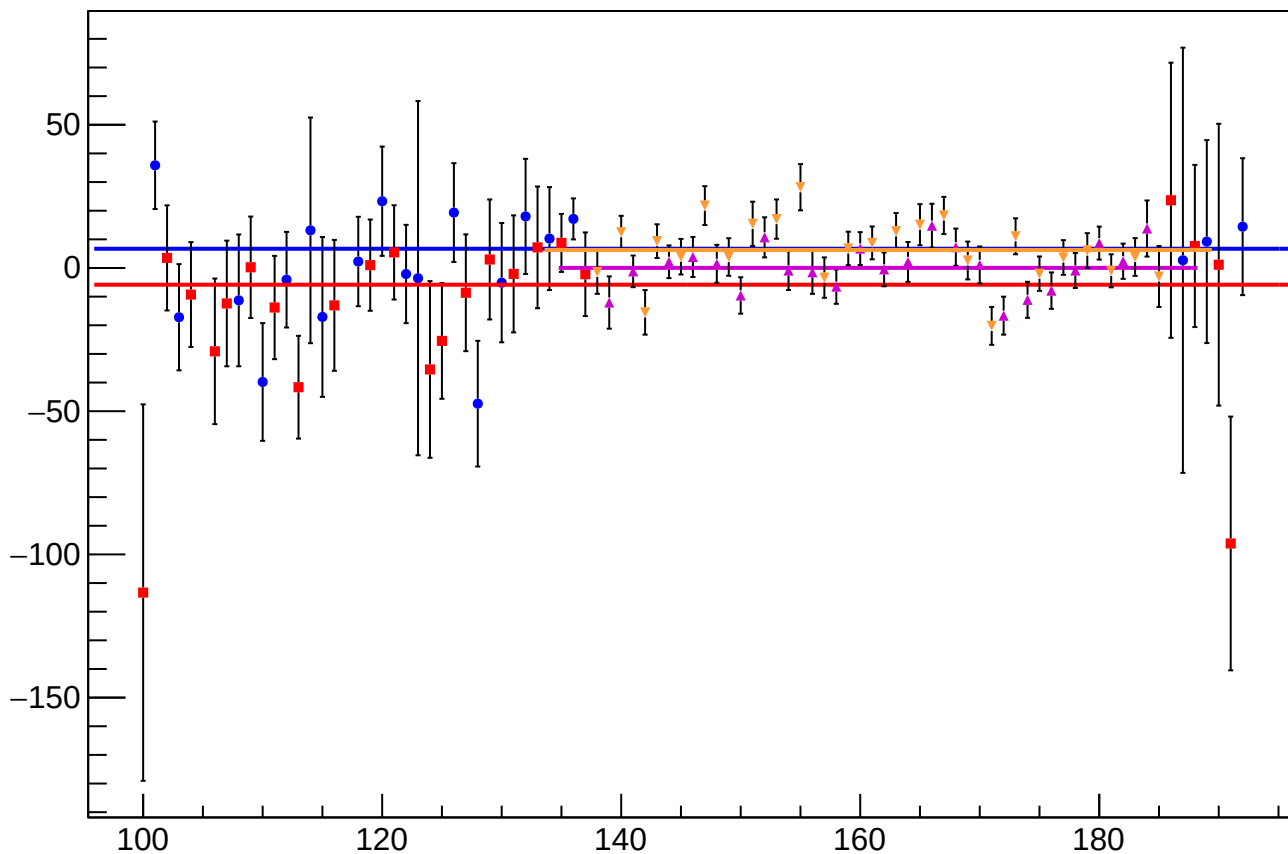
Right: 4216.116 $\pm$ 0.803 χ^2/NDF : 5200727.8/42

In: 4451.873 $\pm$ 0.662 χ^2/NDF : 4852188.7/42

Out: 4646.451 $\pm$ 0.670 χ^2/NDF : 4616086.9/47

All: 4547.988 $\pm$ 0.471 χ^2/NDF : 9510927.1/90

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.726 ± 3.983 χ^2/NDF : 22.9/19

Left Out: 6.302 ± 1.313 χ^2/NDF : 56.7/24

Right Out: -5.842 ± 4.132 χ^2/NDF : 18.3/22

Left In: 0.044 ± 1.358 χ^2/NDF : 30.0/22

Left: 3.279 ± 0.944 χ^2/NDF : 97.7/47

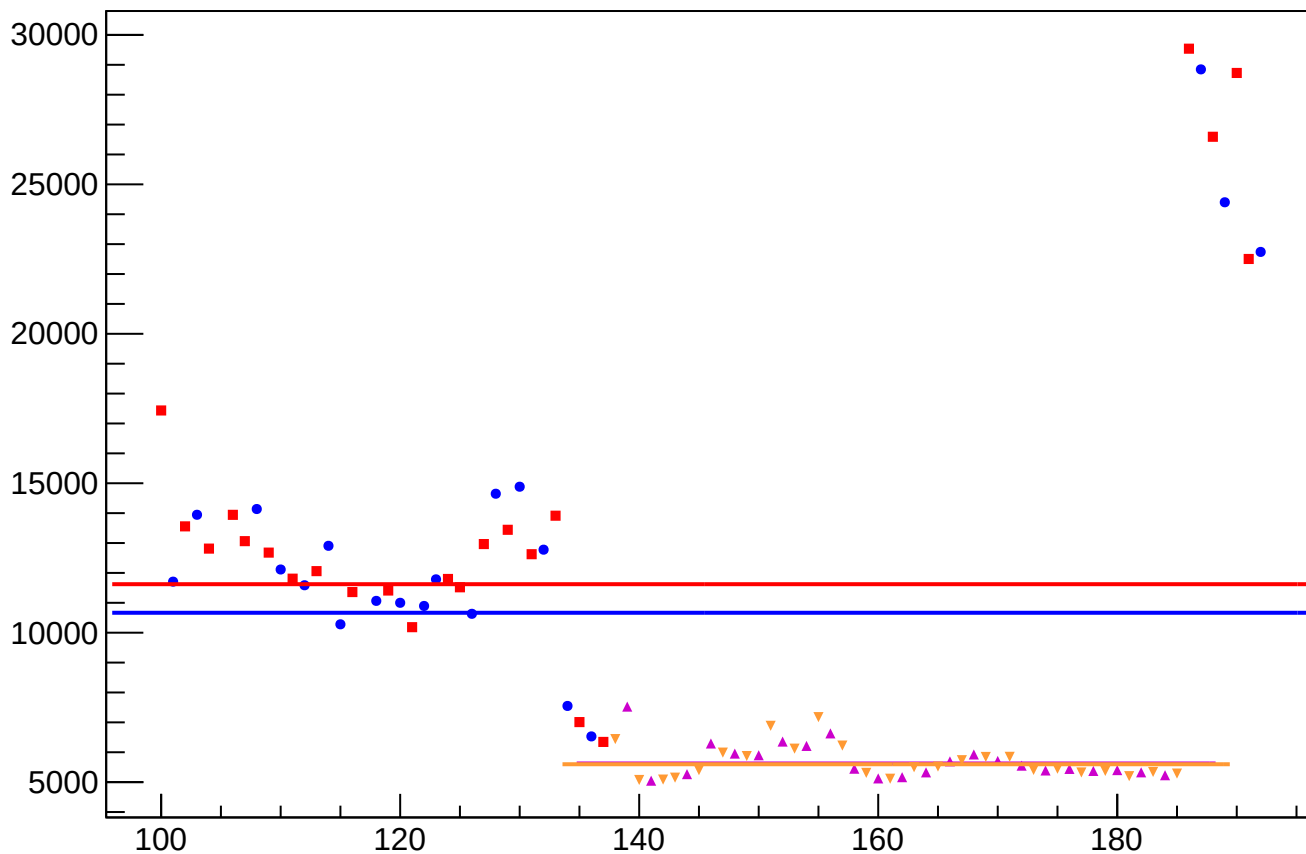
Right: 0.673 ± 2.868 χ^2/NDF : 46.0/42

In: 0.740 ± 1.285 χ^2/NDF : 55.4/42

Out: 5.189 ± 1.251 χ^2/NDF : 82.9/47

All: 3.024 ± 0.896 χ^2/NDF : 144.4/90

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10666.609 $\pm$ 2.816 χ^2 /NDF: 1971829.4/19

Left Out: 5598.786 $\pm$ 0.928 χ^2 /NDF:283253.4/24

Right Out: 11622.820 $\pm$ 2.922 χ^2 /NDF: 2024158.0/22

Left In: 5625.163 $\pm$ 0.960 χ^2 /NDF:272563.5/22

Left: 5611.528 $\pm$ 0.667 χ^2 /NDF: 556207.1/47

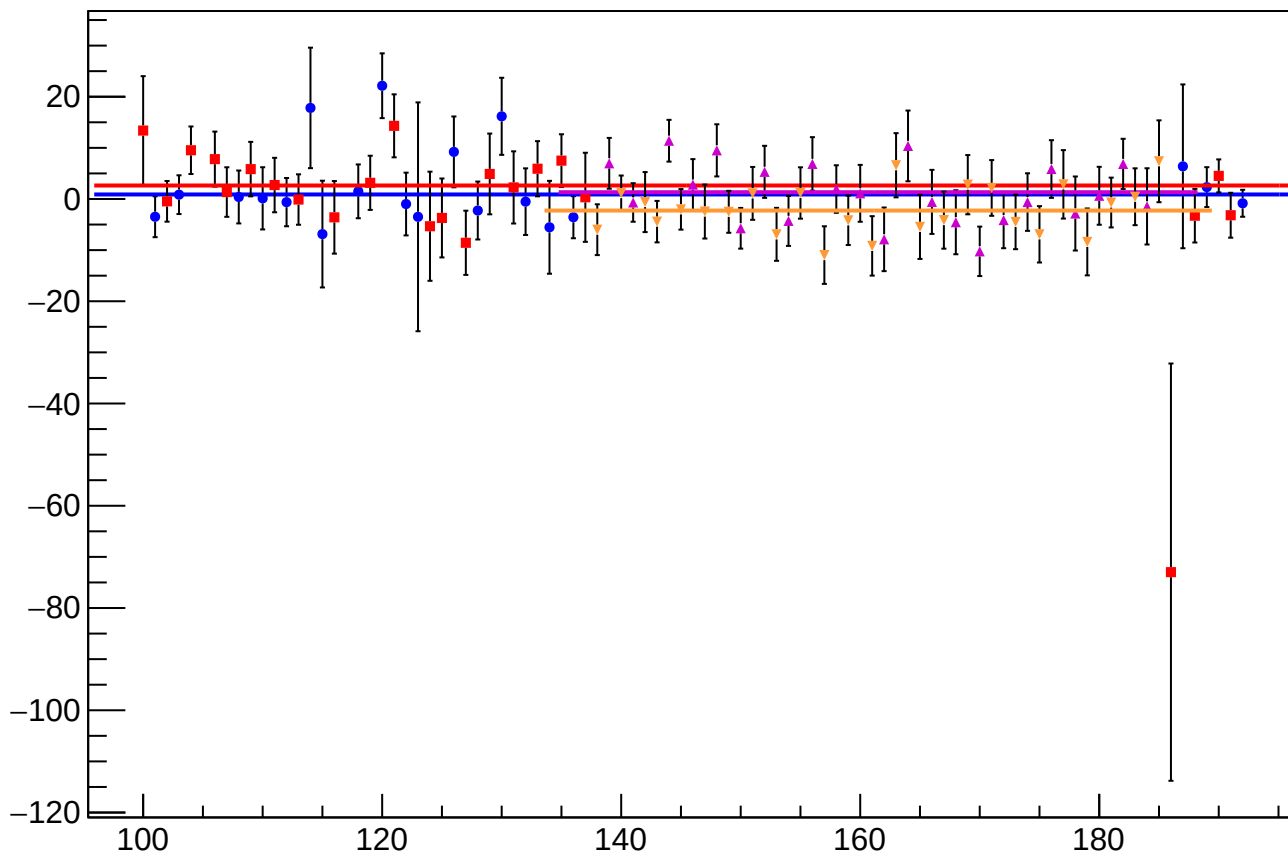
Right: 11127.179 $\pm$ 2.028 χ^2 /NDF: 4051507.1/42

In: 6149.983 $\pm$ 0.909 χ^2 /NDF:5114958.6/42

Out: 6150.948 $\pm$ 0.885 χ^2 /NDF:6168853.0/47

All: 6150.478 $\pm$ 0.634 χ^2 /NDF: 11283812.1/9

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.885 ± 1.174 χ^2/NDF : 23.6/19

Left Out: -2.262 ± 1.030 χ^2/NDF : 15.5/24

Right Out: 2.638 ± 1.158 χ^2/NDF : 22.5/22

Left In: 1.328 ± 1.082 χ^2/NDF : 30.6/22

Left: -0.555 ± 0.746 χ^2/NDF : 51.9/47

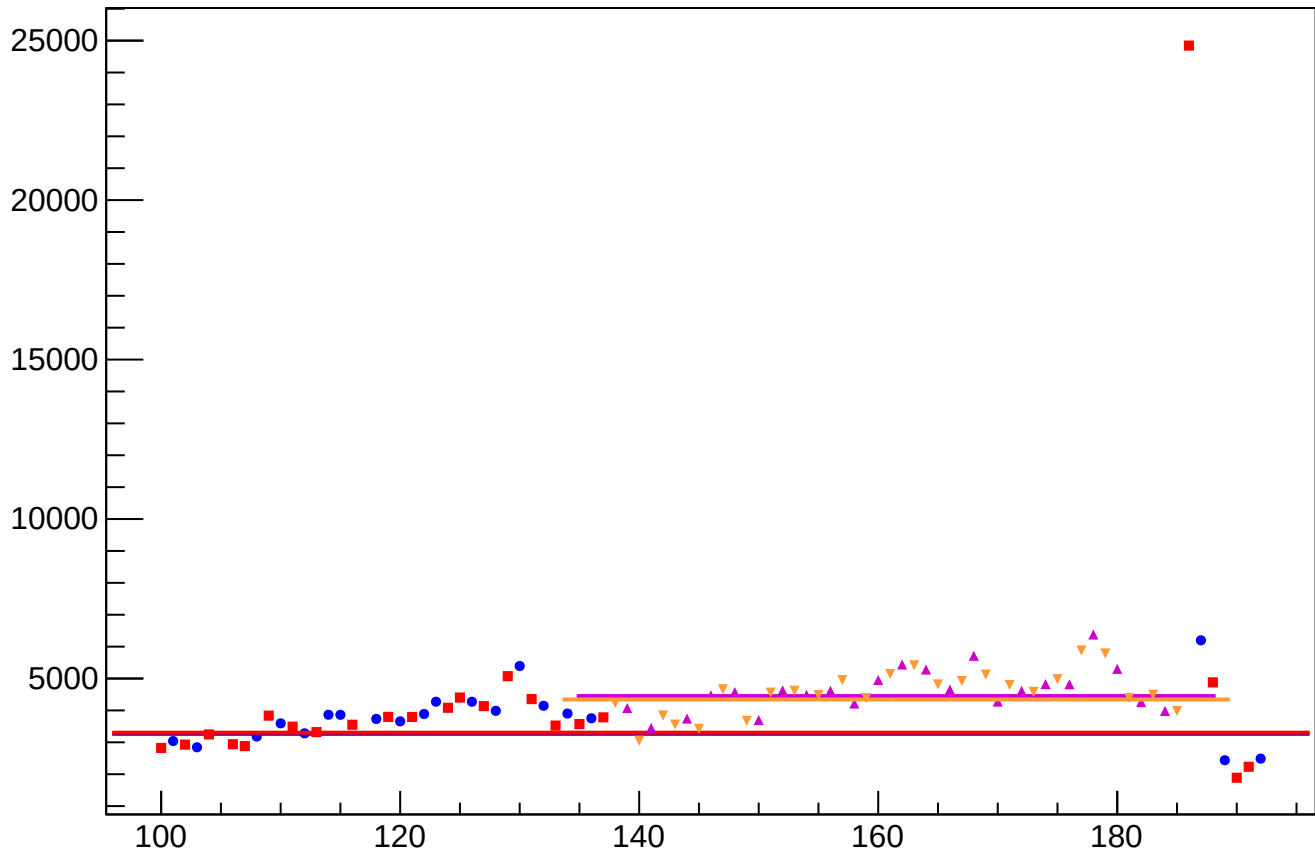
Right: 1.774 ± 0.824 χ^2/NDF : 47.2/42

In: 1.125 ± 0.796 χ^2/NDF : 54.3/42

Out: -0.097 ± 0.770 χ^2/NDF : 48.0/47

All: 0.493 ± 0.553 χ^2/NDF : 103.5/90

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3267.471+/-0.830 χ^2/NDF : 736249.2/19

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

Right Out: 3302.337+/-0.819 χ^2/NDF : 1588455.6/22

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

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

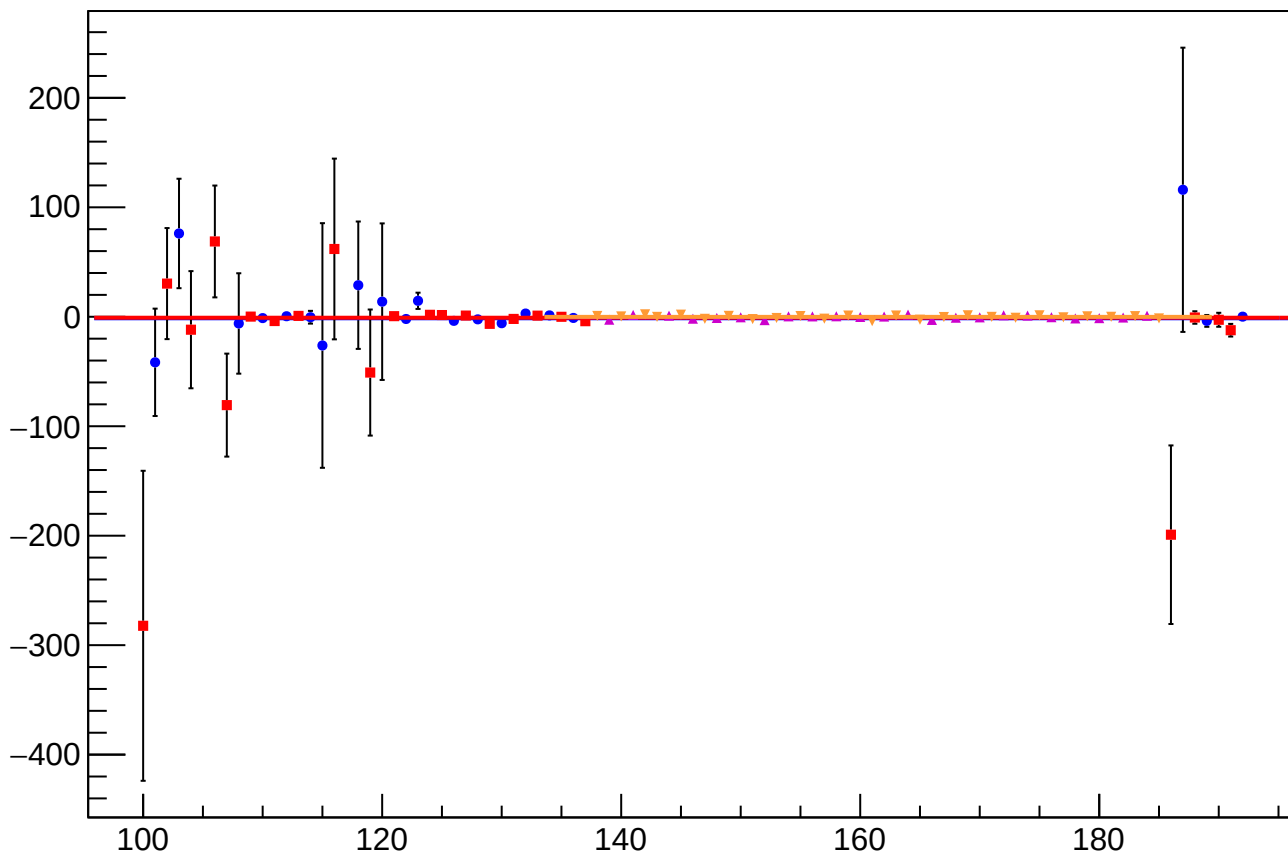
Right: 3285.144+/-0.583 χ^2/NDF : 2325598.8/42

In: 3906.914+/-0.563 χ^2/NDF : 2526606.4/42

Out: 3883.067+/-0.544 χ^2/NDF : 3482527.1/47

All: 3894.595+/-0.391 χ^2/NDF : 6010061.6/90

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.368 ± 0.725 $\chi^2/\text{NDF}: 17.9/19$

Left Out: -0.092 ± 0.249 $\chi^2/\text{NDF}: 34.4/24$

Right Out: -0.873 ± 0.698 $\chi^2/\text{NDF}: 31.4/22$

Left In: -0.259 ± 0.257 $\chi^2/\text{NDF}: 27.2/22$

Left: -0.173 ± 0.179 $\chi^2/\text{NDF}: 61.9/47$

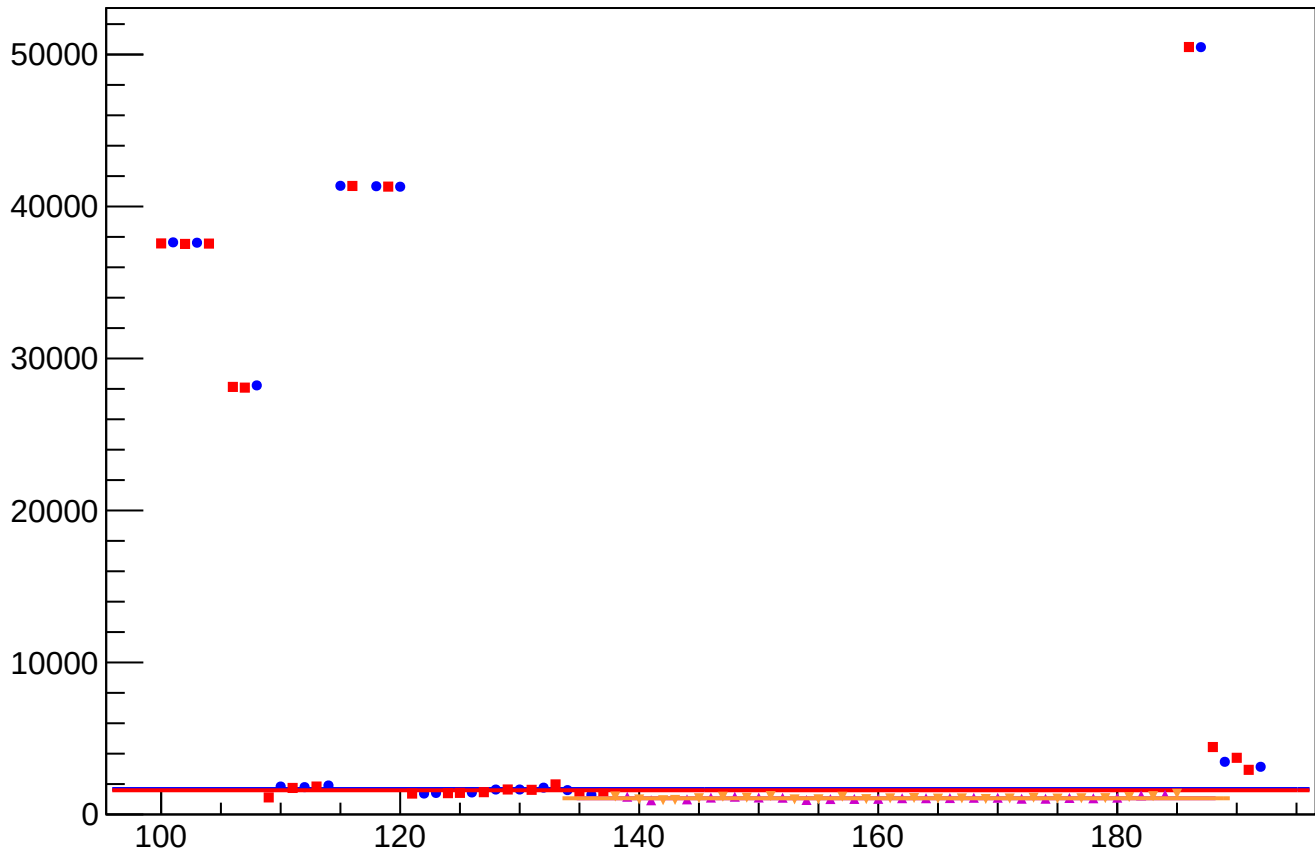
Right: -1.111 ± 0.503 $\chi^2/\text{NDF}: 49.6/42$

In: -0.383 ± 0.242 $\chi^2/\text{NDF}: 47.2/42$

Out: -0.180 ± 0.235 $\chi^2/\text{NDF}: 67.0/47$

All: -0.278 ± 0.168 $\chi^2/\text{NDF}: 114.6/90$

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1672.673+/-0.513 χ^2/NDF : 5694833.0/19

Left Out: 1064.701+/-0.176 χ^2/NDF : 186511.5/24

Right Out: 1591.625+/-0.494 χ^2/NDF : 6477096.3/22

Left In: 1066.255+/-0.182 χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126 χ^2/NDF : 350781.3/47

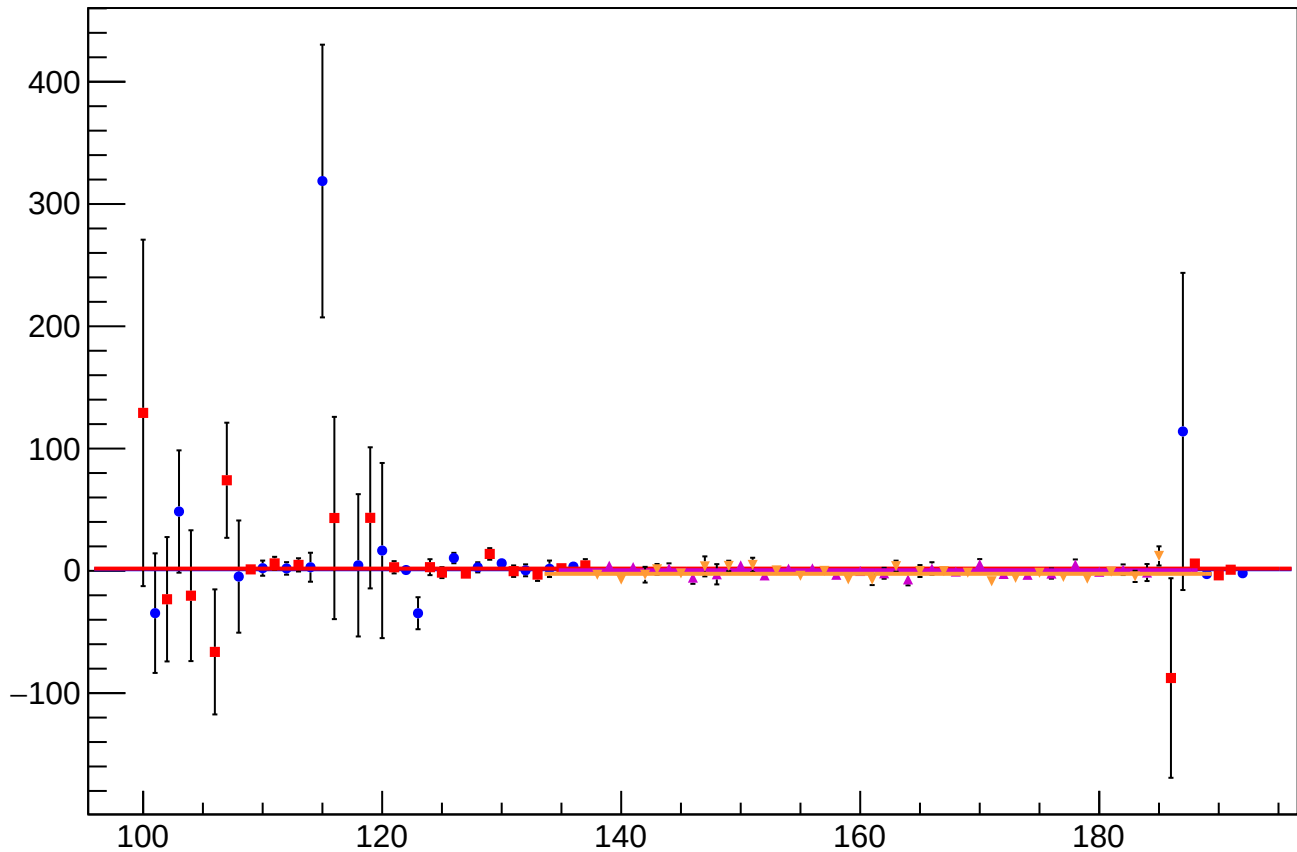
Right: 1630.603+/-0.356 χ^2/NDF : 12184895.1/42

In: 1133.895+/-0.171 χ^2/NDF : 7101467.9/42

Out: 1124.196+/-0.166 χ^2/NDF : 7674504.2/47

All: 1128.890+/-0.119 χ^2/NDF : 14777627.0/95

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 1.305 ± 1.064 $\chi^2/\text{NDF}: 28.9/19$

Left Out: -2.422 ± 0.811 $\chi^2/\text{NDF}: 21.2/24$

Right Out: 1.832 ± 1.070 $\chi^2/\text{NDF}: 21.4/22$

Left In: 0.468 ± 0.843 $\chi^2/\text{NDF}: 15.5/22$

Left: -1.033 ± 0.584 $\chi^2/\text{NDF}: 42.8/47$

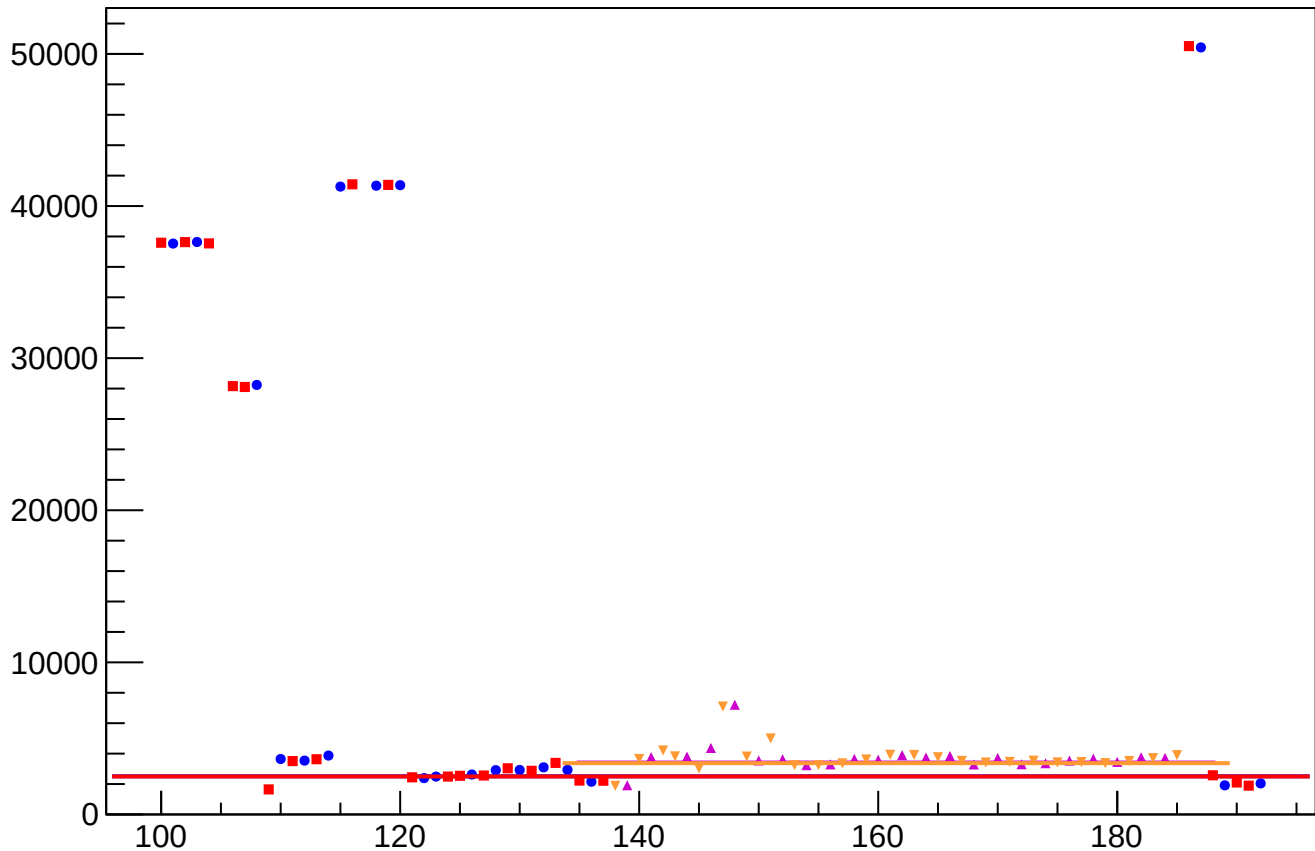
Right: 1.567 ± 0.754 $\chi^2/\text{NDF}: 50.5/42$

In: 0.791 ± 0.661 $\chi^2/\text{NDF}: 44.8/42$

Out: -0.870 ± 0.646 $\chi^2/\text{NDF}: 52.7/47$

All: -0.058 ± 0.462 $\chi^2/\text{NDF}: 100.8/90$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2508.174 ± 0.752 $\chi^2/\text{NDF}: 5102524.2/19$

Left Out: 3372.958 ± 0.573 $\chi^2/\text{NDF}: 1656864.7/24$

Right Out: 2499.064 ± 0.756 $\chi^2/\text{NDF}: 5630887.9/22$

Left In: 3411.924 ± 0.596 $\chi^2/\text{NDF}: 1434523.7/22$

Left: 3391.680 ± 0.413 $\chi^2/\text{NDF}: 3093609.1/47$

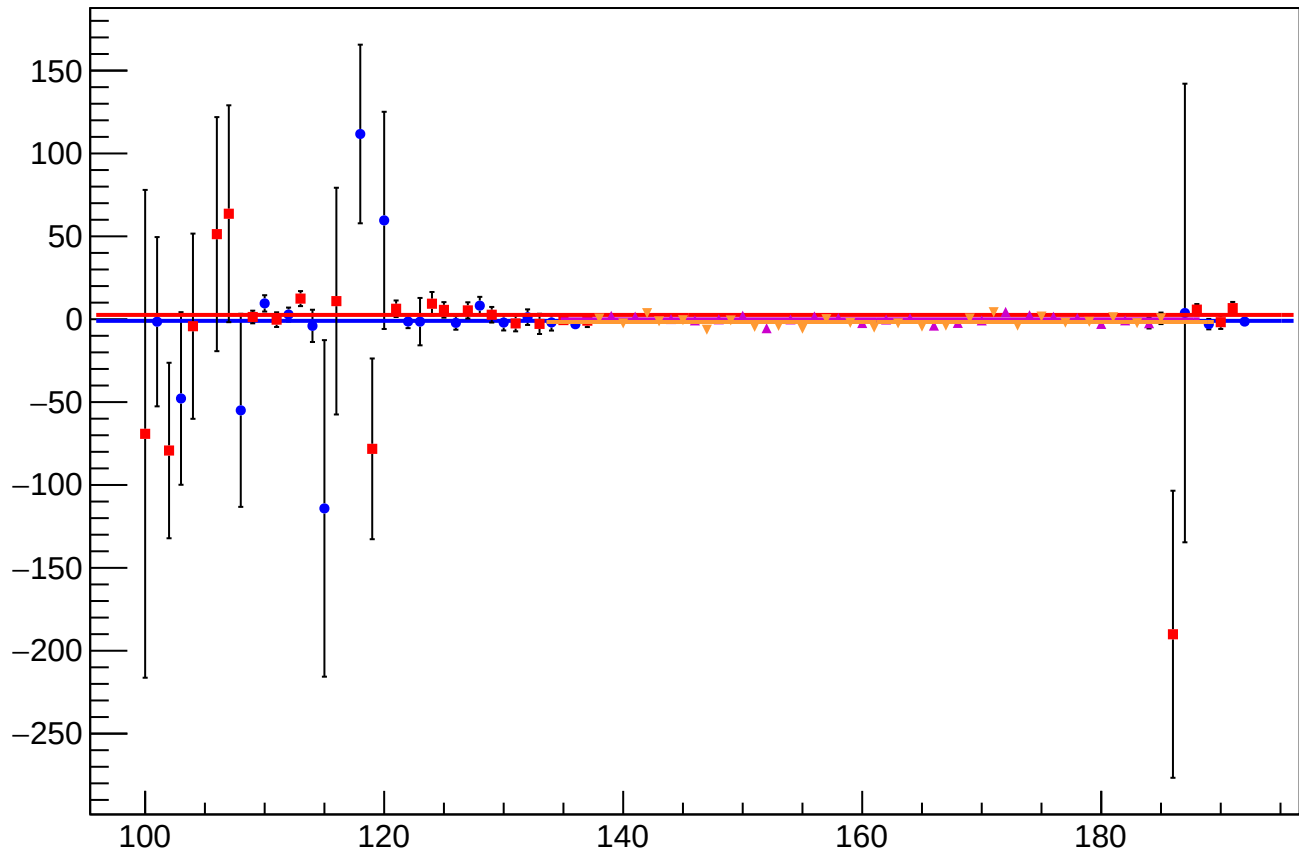
Right: 2503.645 ± 0.533 $\chi^2/\text{NDF}: 10733485.1/42$

In: 3063.399 ± 0.467 $\chi^2/\text{NDF}: 7423811.7/42$

Out: 3054.268 ± 0.457 $\chi^2/\text{NDF}: 8135574.2/47$

All: 3058.732 ± 0.327 $\chi^2/\text{NDF}: 15559581.2/95$

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.980 ± 0.990 χ^2/NDF : 18.6/19

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

Right Out: 2.601 ± 1.078 χ^2/NDF : 25.9/22

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

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

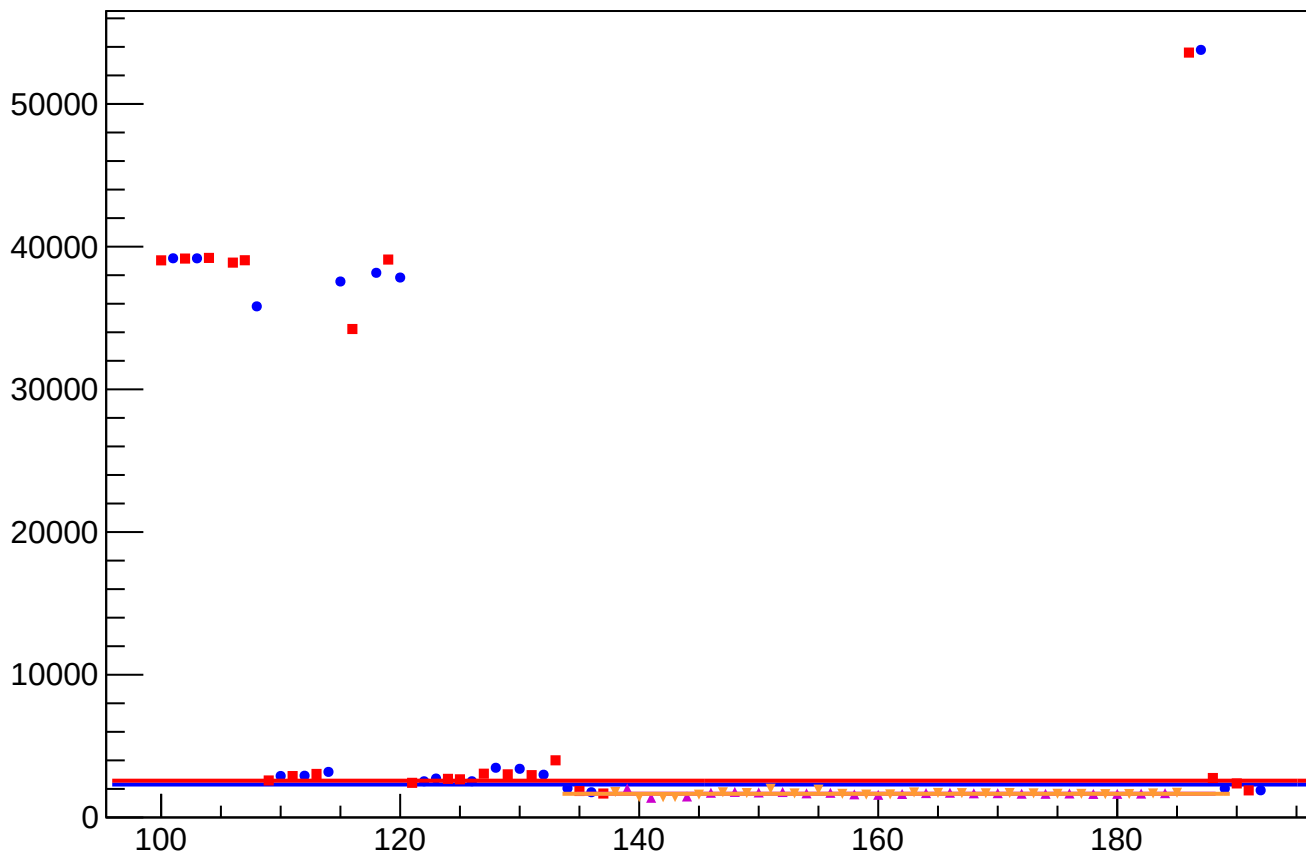
Right: 0.658 ± 0.729 χ^2/NDF : 50.5/42

In: -0.200 ± 0.372 χ^2/NDF : 47.5/42

Out: -1.182 ± 0.365 χ^2/NDF : 85.5/47

All: -0.700 ± 0.260 χ^2/NDF : 136.6/90

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2307.676+/-0.700 χ^2/NDF : 5310397.9/19

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

Right Out: 2577.007+/-0.762 χ^2/NDF : 5637275.2/22

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

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

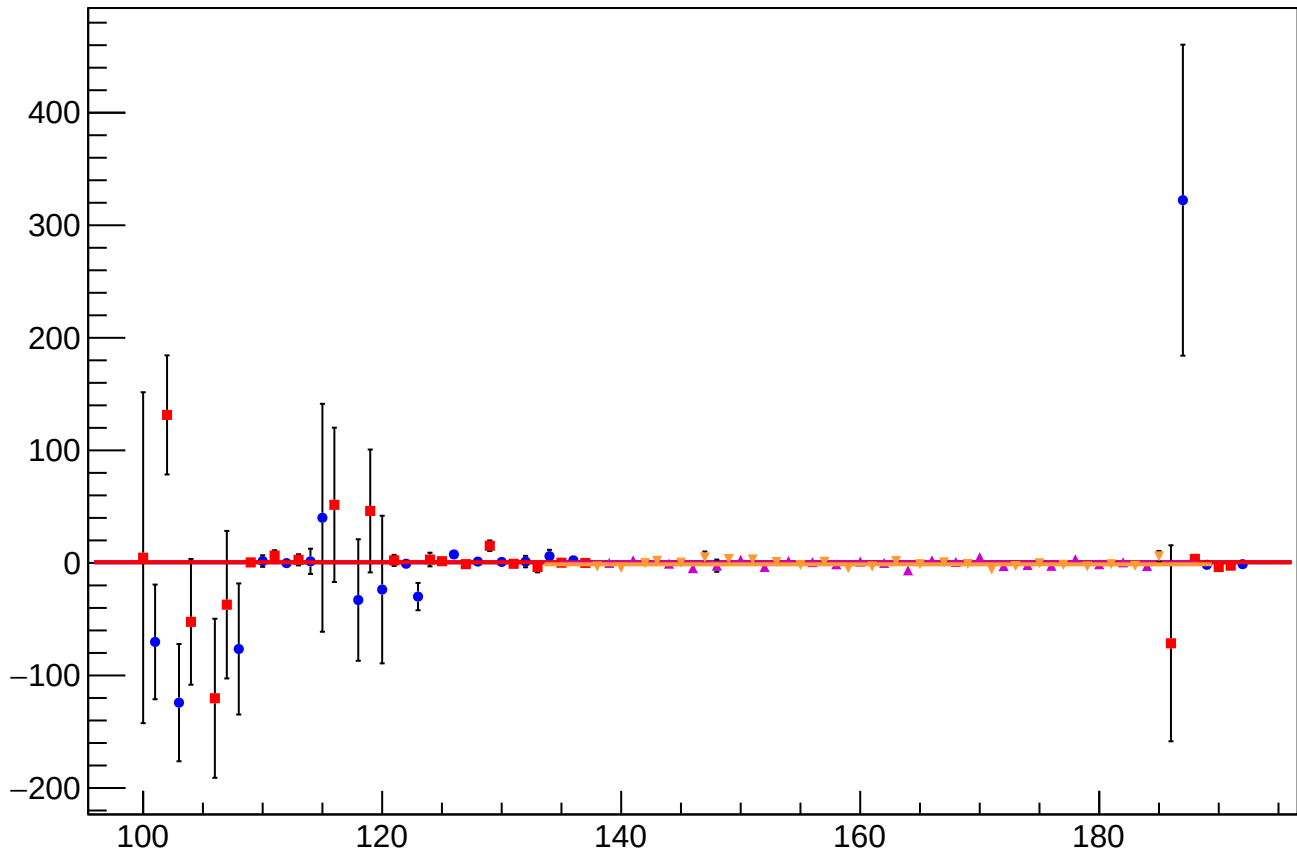
Right: 2430.862+/-0.516 χ^2/NDF : 11015410.5/42

In: 1754.454+/-0.263 χ^2/NDF : 6216709.6/42

Out: 1763.225+/-0.258 χ^2/NDF : 7148081.0/47

All: 1758.918+/-0.184 χ^2/NDF : 13365357.3/95

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.545 ± 0.900 χ^2/NDF : 28.8/19

Left Out: -1.251 ± 0.535 χ^2/NDF : 21.7/24

Right Out: 0.576 ± 0.892 χ^2/NDF : 30.2/22

Left In: -0.098 ± 0.541 χ^2/NDF : 19.3/22

Left: -0.681 ± 0.380 χ^2/NDF : 43.3/47

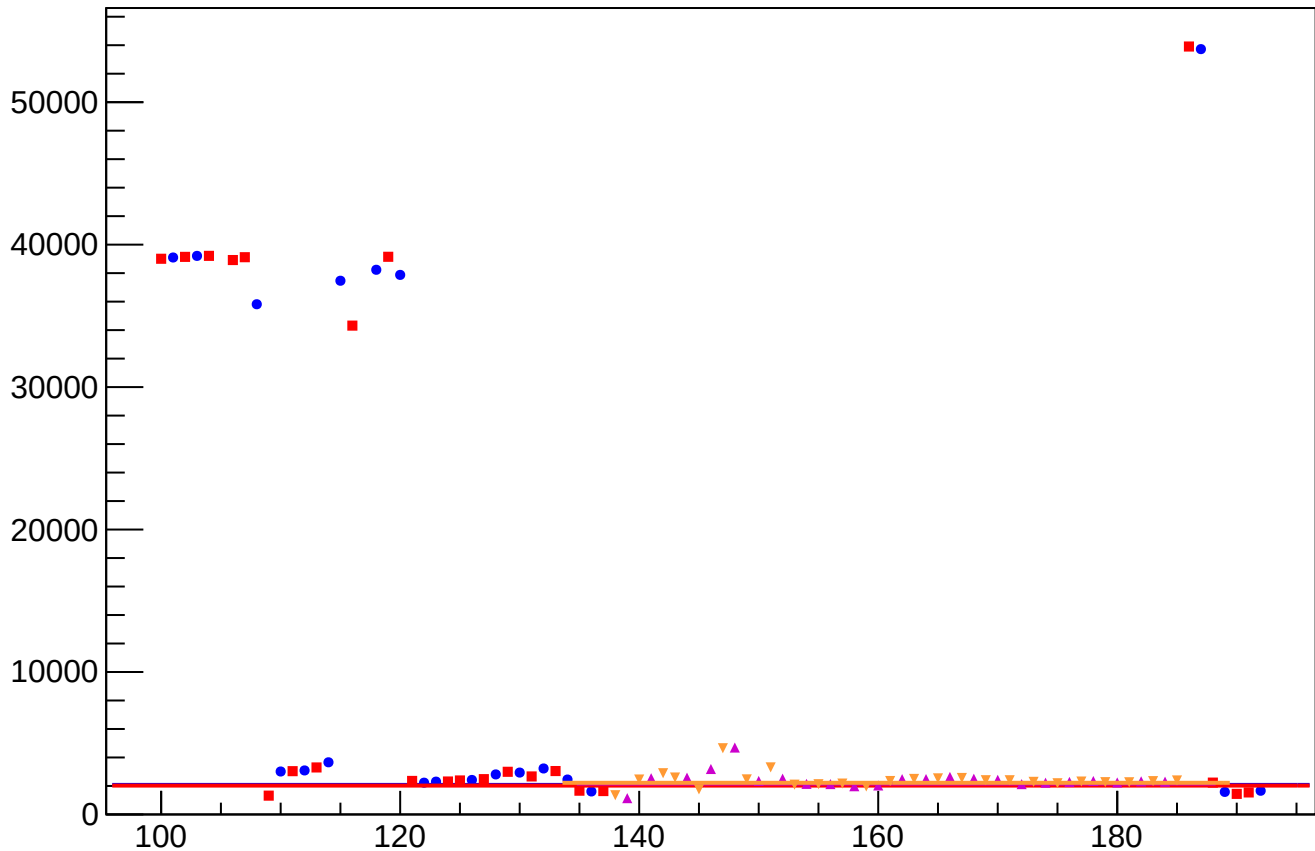
Right: 0.561 ± 0.634 χ^2/NDF : 59.0/42

In: 0.073 ± 0.464 χ^2/NDF : 48.4/42

Out: -0.767 ± 0.459 χ^2/NDF : 55.0/47

All: -0.352 ± 0.326 χ^2/NDF : 105.1/90

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2074.221+/-0.636 χ^2/NDF : 5575145.2/19

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

Right Out: 2026.907+/-0.631 χ^2/NDF : 6213106.9/22

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

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

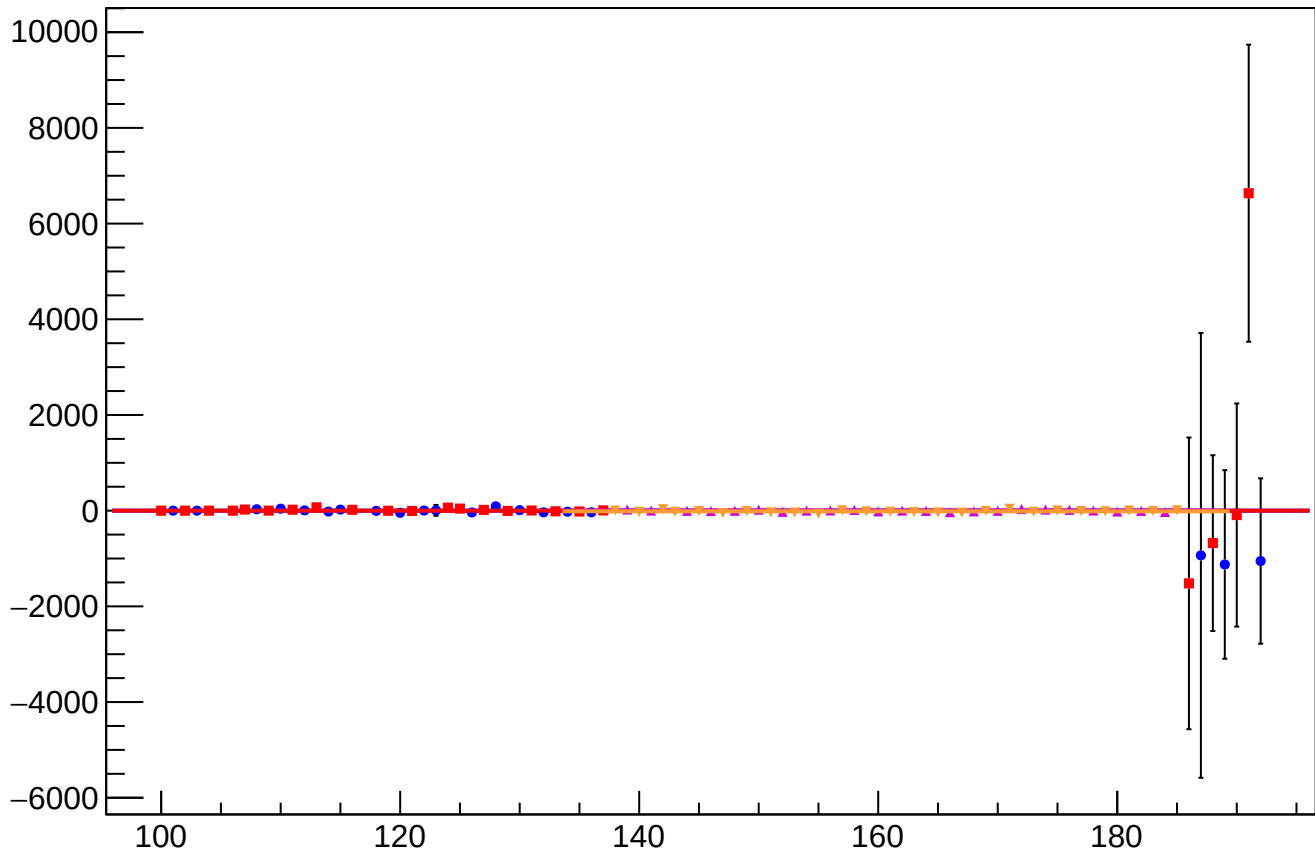
Right: 2050.343+/-0.448 χ^2/NDF : 11791040.9/42

In: 2144.159+/-0.328 χ^2/NDF : 7566453.8/42

Out: 2170.420+/-0.324 χ^2/NDF : 7705991.3/47

All: 2157.433+/-0.231 χ^2/NDF : 15275685.7/9

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 17.3/19

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

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 20.5/22

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

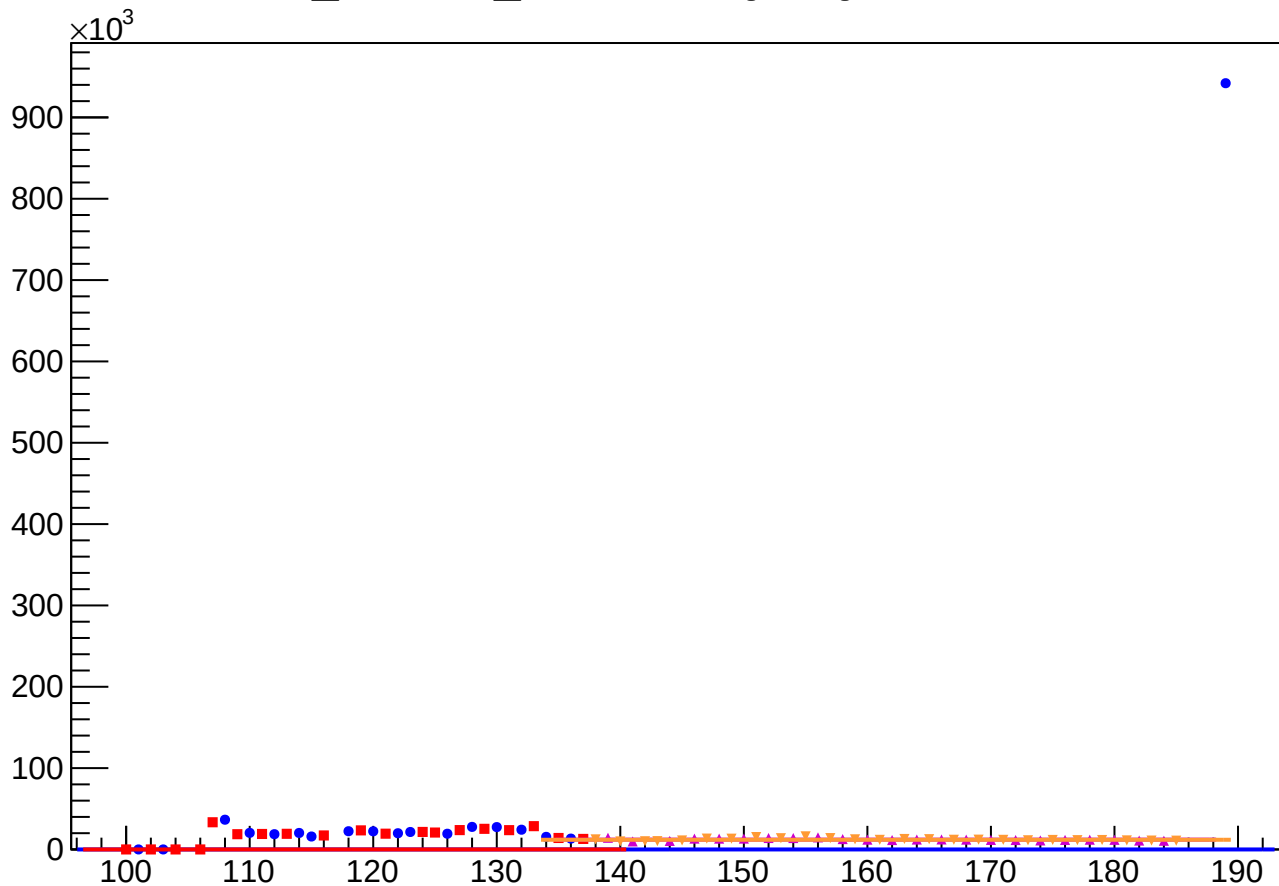
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 38.3/42

In: 0.013 $\pm$ 0.017 χ^2 /NDF:46.3/42

Out: -0.004 $\pm$ 0.016 χ^2 /NDF:102.3/47

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 149.1/90

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

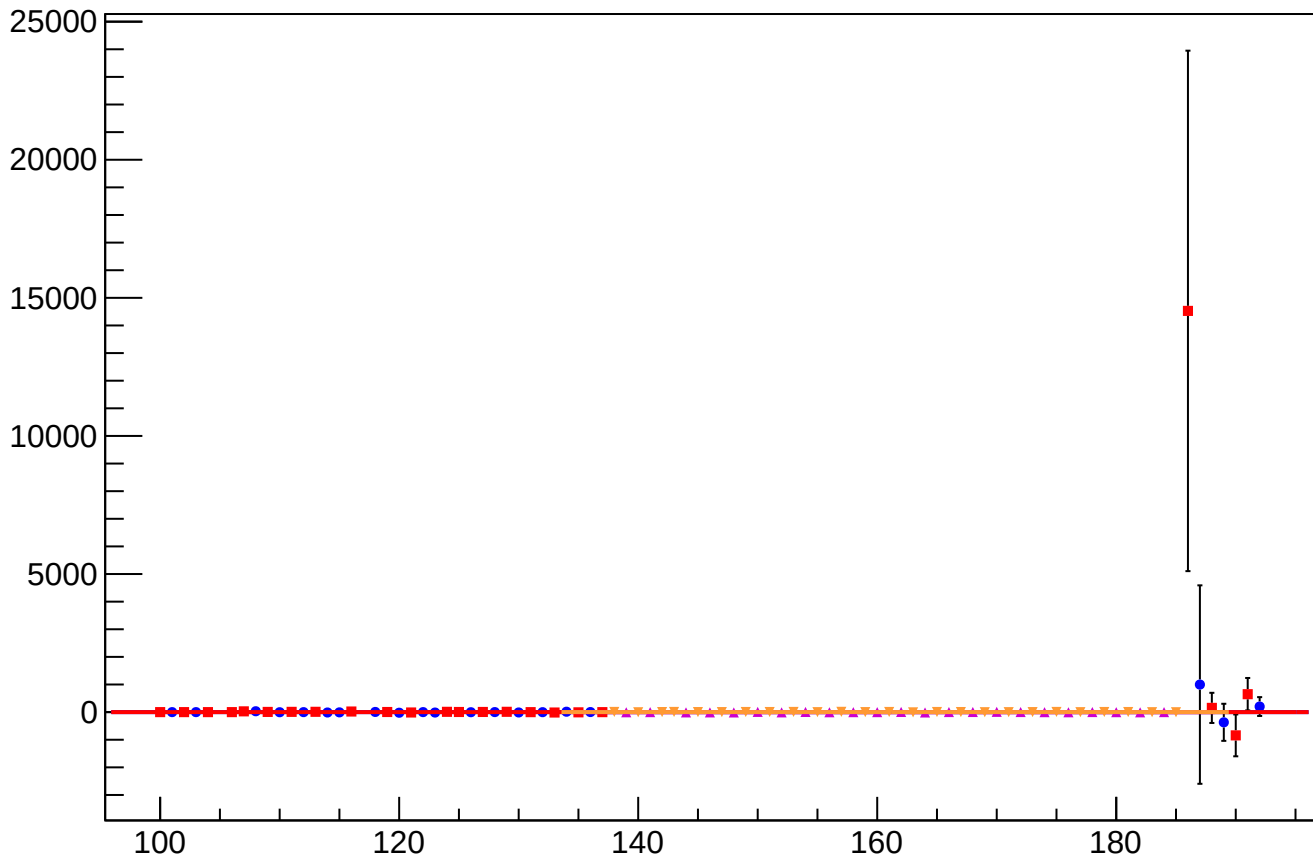
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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 $\pm$ 0.009 χ^2 /NDF: 13.6/19

Left Out: 1.649 $\pm$ 1.022 χ^2 /NDF:18.4/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 23.7/22

Left In: -0.939 $\pm$ 1.049 χ^2 /NDF:35.6/22

Left: 0.388 $\pm$ 0.732 χ^2 /NDF: 57.1/47

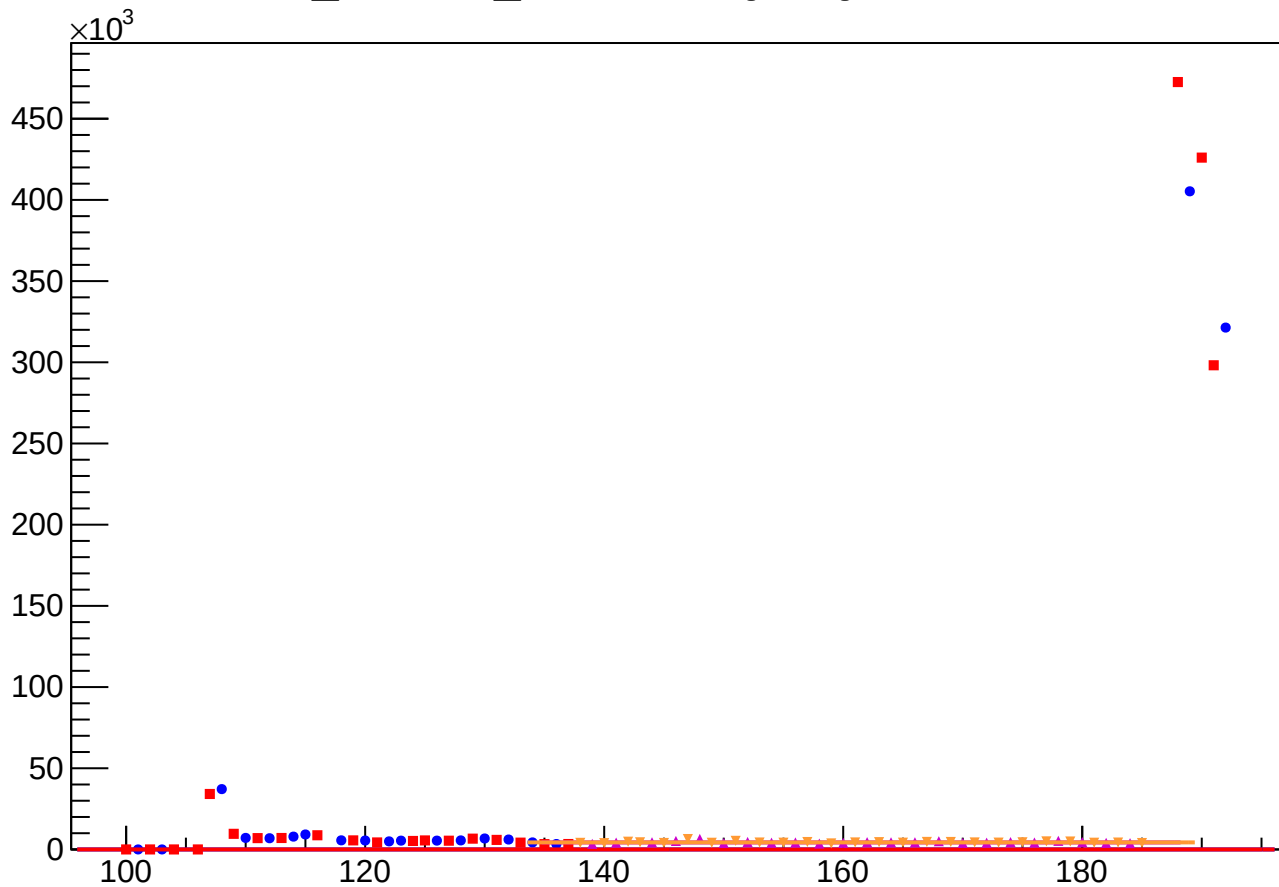
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 38.7/42

In: 0.001 $\pm$ 0.009 χ^2 /NDF:50.0/42

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:44.7/47

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 96.1/90

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 13550966.6/18

Left Out: 4349.005 ± 0.723 χ^2/NDF : 383895.7/24

Right Out: 9.854 ± 0.006 χ^2/NDF : 13733062.2/21

Left In: 4321.572 ± 0.741 χ^2/NDF : 514603.2/22

Left: 4335.639 ± 0.518 χ^2/NDF : 899200.9/47

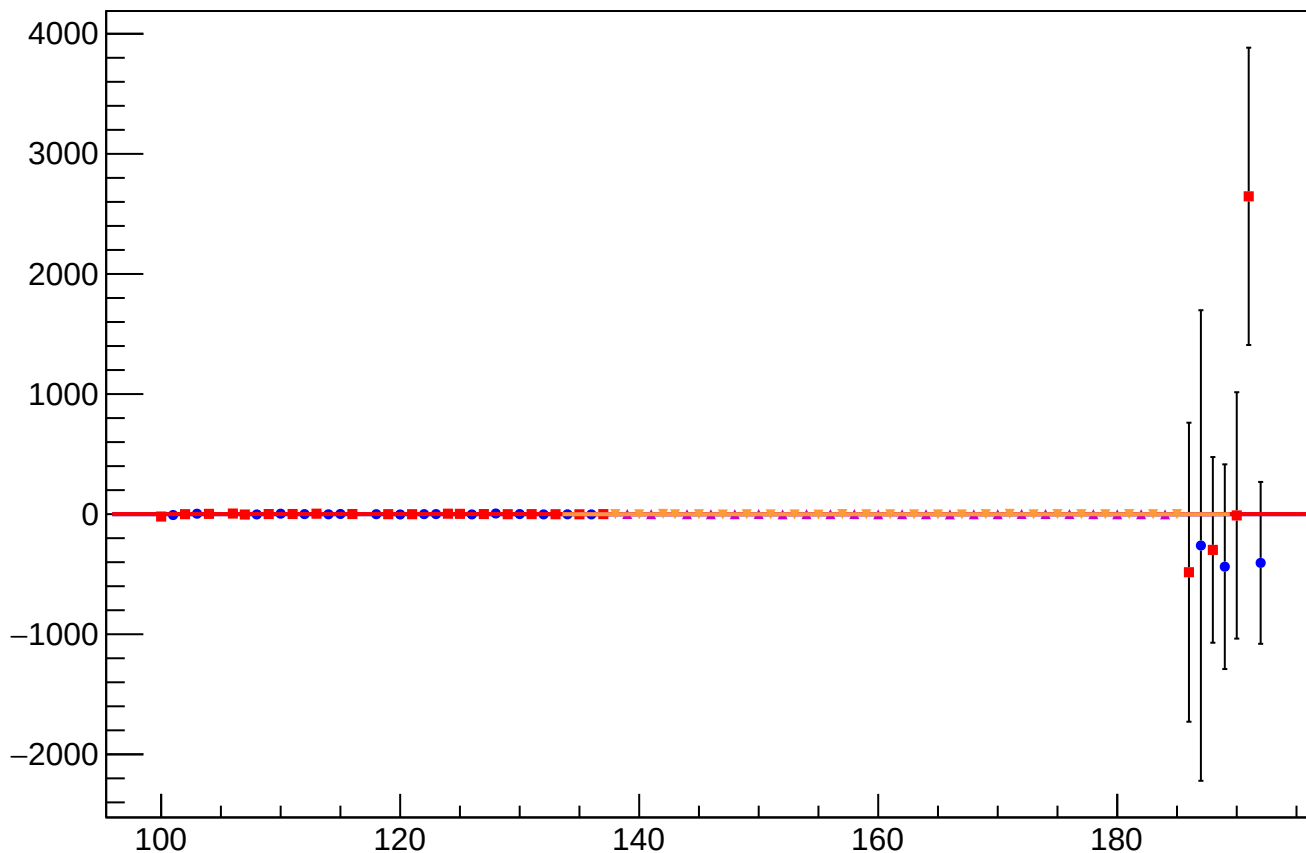
Right: 9.894 ± 0.004 χ^2/NDF : 27284118.9/40

In: 10.271 ± 0.007 χ^2/NDF : 47882710.8/41

Out: 10.165 ± 0.006 χ^2/NDF : 50162233.6/46

All: 10.215 ± 0.004 χ^2/NDF : 98045085.2/88

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 χ^2/NDF : 23.3/19

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

Right Out: 0.638 ± 0.501 χ^2/NDF : 17.9/22

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

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

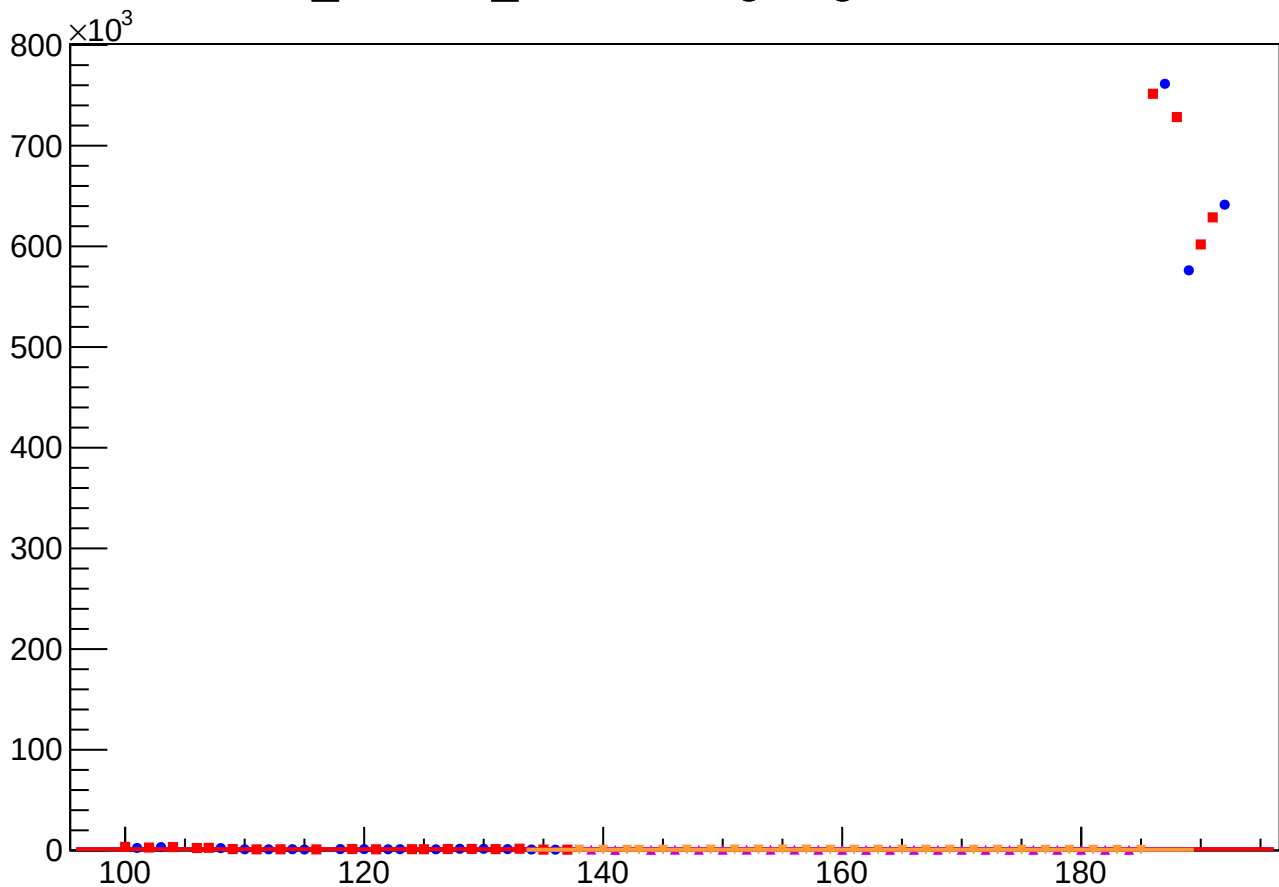
Right: -0.063 ± 0.348 χ^2/NDF : 45.0/42

In: -0.063 ± 0.161 χ^2/NDF : 54.8/42

Out: -0.638 ± 0.156 χ^2/NDF : 83.6/47

All: -0.359 ± 0.112 χ^2/NDF : 145.0/90

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.681+/-0.342 χ^2/NDF : 4596391.8/19

Left Out: 700.984+/-0.116 χ^2/NDF : 392855.4/24

Right Out: 1248.584+/-0.355 χ^2/NDF : 5316054.2/22

Left In: 706.971+/-0.121 χ^2/NDF : 332011.4/22

Left: 703.867+/-0.084 χ^2/NDF : 726141.0/47

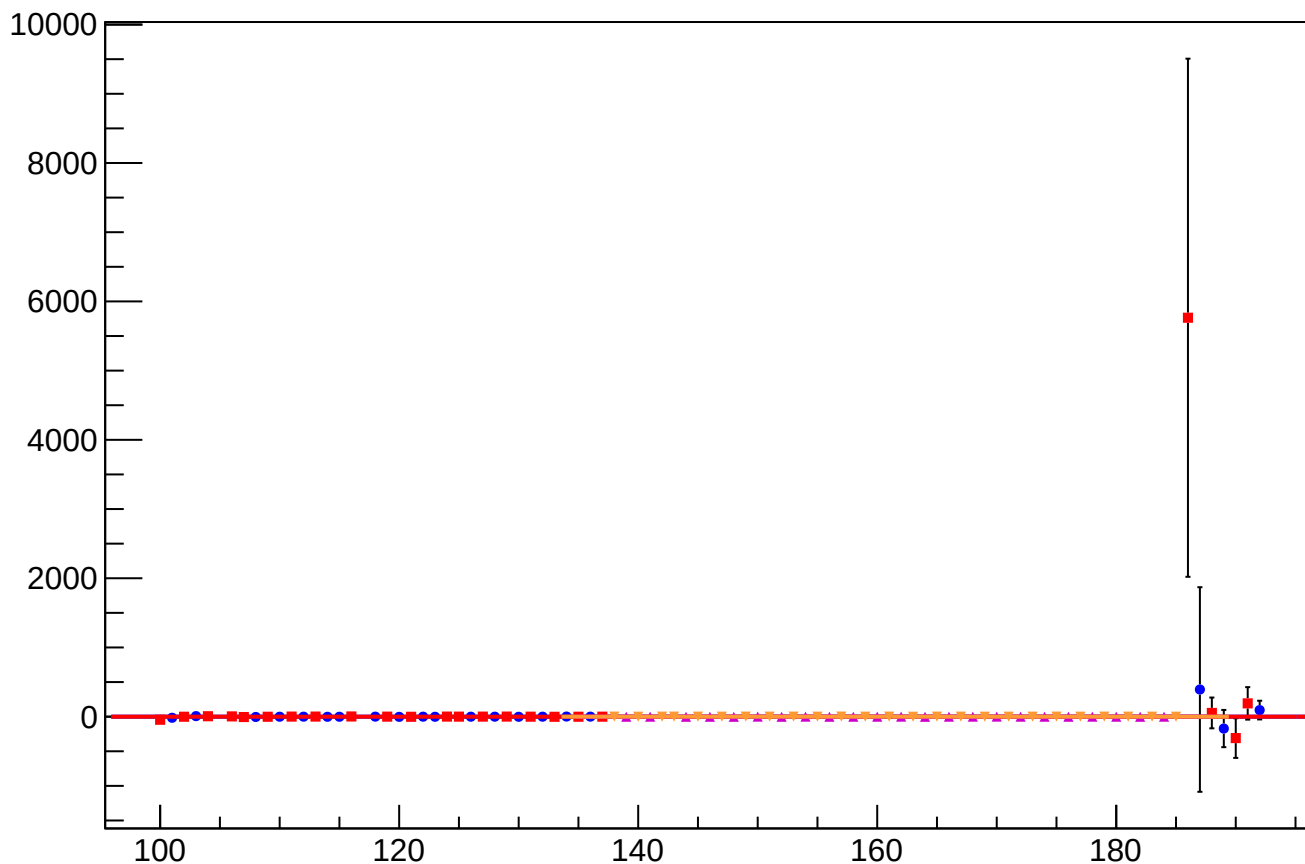
Right: 1206.624+/-0.246 χ^2/NDF : 9939443.1/42

In: 758.144+/-0.114 χ^2/NDF : 6545127.6/42

Out: 754.228+/-0.111 χ^2/NDF : 7861832.7/47

All: 756.129+/-0.079 χ^2/NDF : 14407569.3/90

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.269 χ^2/NDF : 20.1/19

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

Right Out: -0.280 ± 0.264 χ^2/NDF : 24.8/22

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

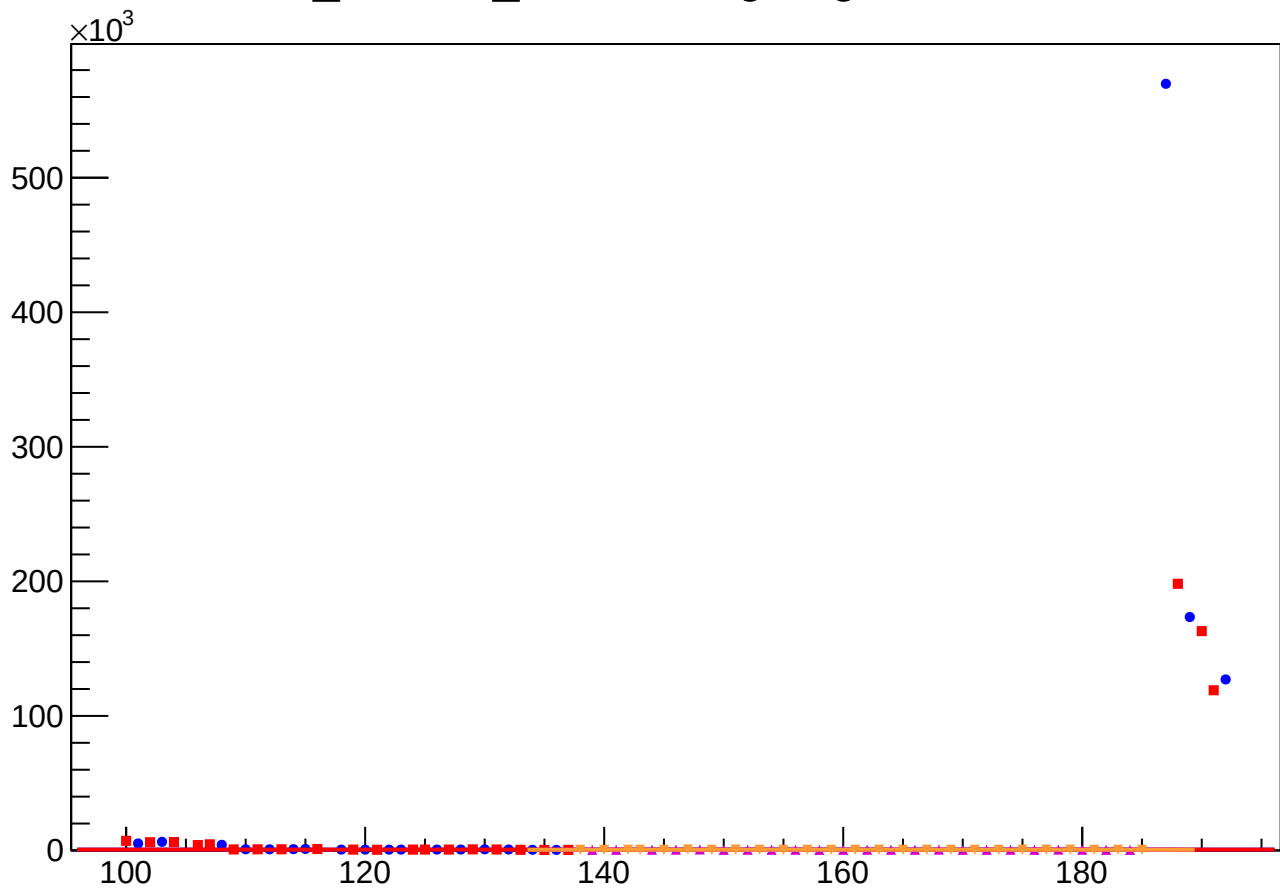
Right: -0.172 ± 0.189 χ^2/NDF : 45.2/42

In: -0.114 ± 0.114 χ^2/NDF : 55.1/42

Out: 0.142 ± 0.111 χ^2/NDF : 45.9/47

All: 0.018 ± 0.080 χ^2/NDF : 103.6/90

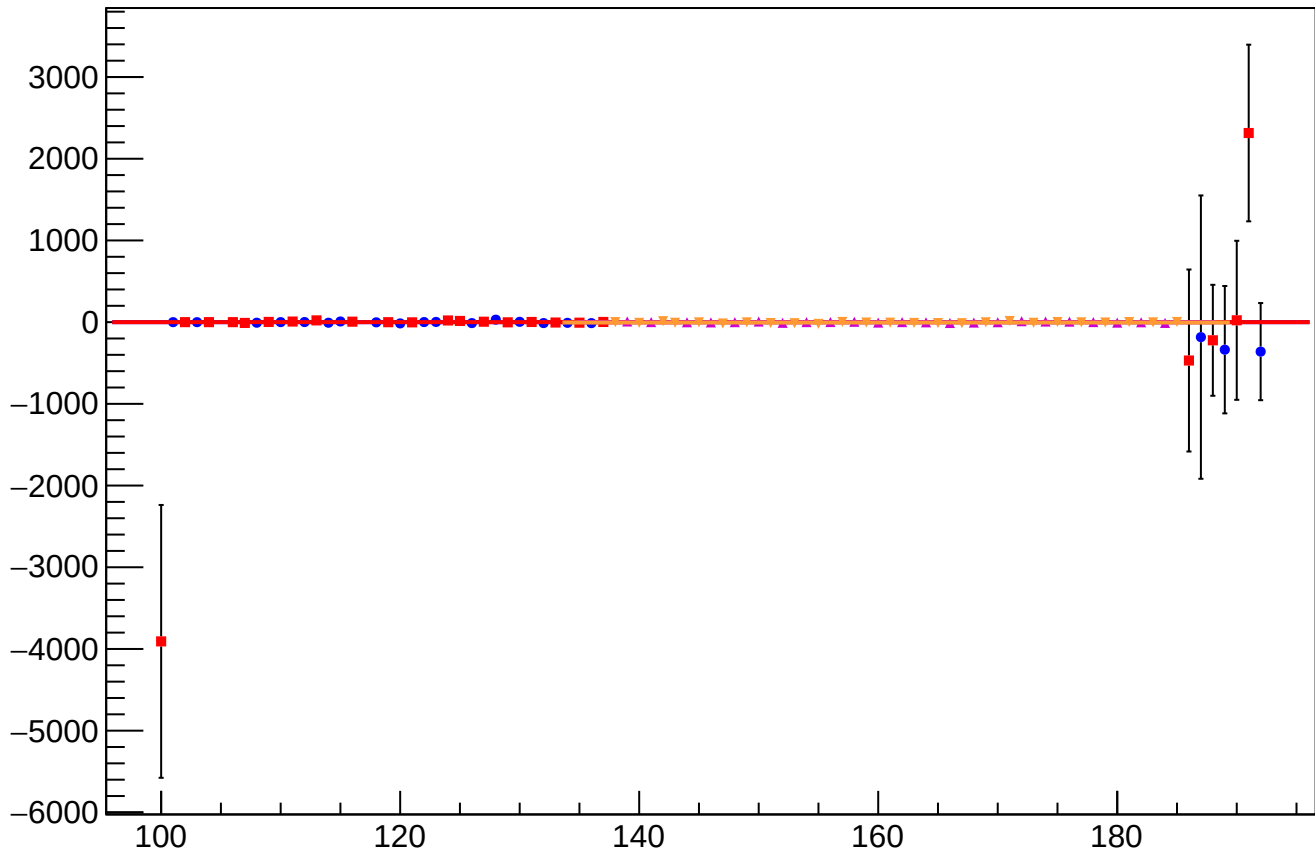
diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 610.079 $\pm$ 0.190 χ^2/NDF : 6012099.3/19
 Left Out: 522.220 $\pm$ 0.087 χ^2/NDF : 330405.3/24
 Right Out: 599.388 $\pm$ 0.187 χ^2/NDF : 6284043.2/21
 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: 604.642 $\pm$ 0.133 χ^2/NDF : 12297749.0/41
 In: 536.812 $\pm$ 0.081 χ^2/NDF : 6620817.9/42
 Out: 535.875 $\pm$ 0.079 χ^2/NDF : 6754649.7/46
 All: 536.331 $\pm$ 0.056 χ^2/NDF : 13375536.8/89

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.5/19

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 22.3/22

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

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

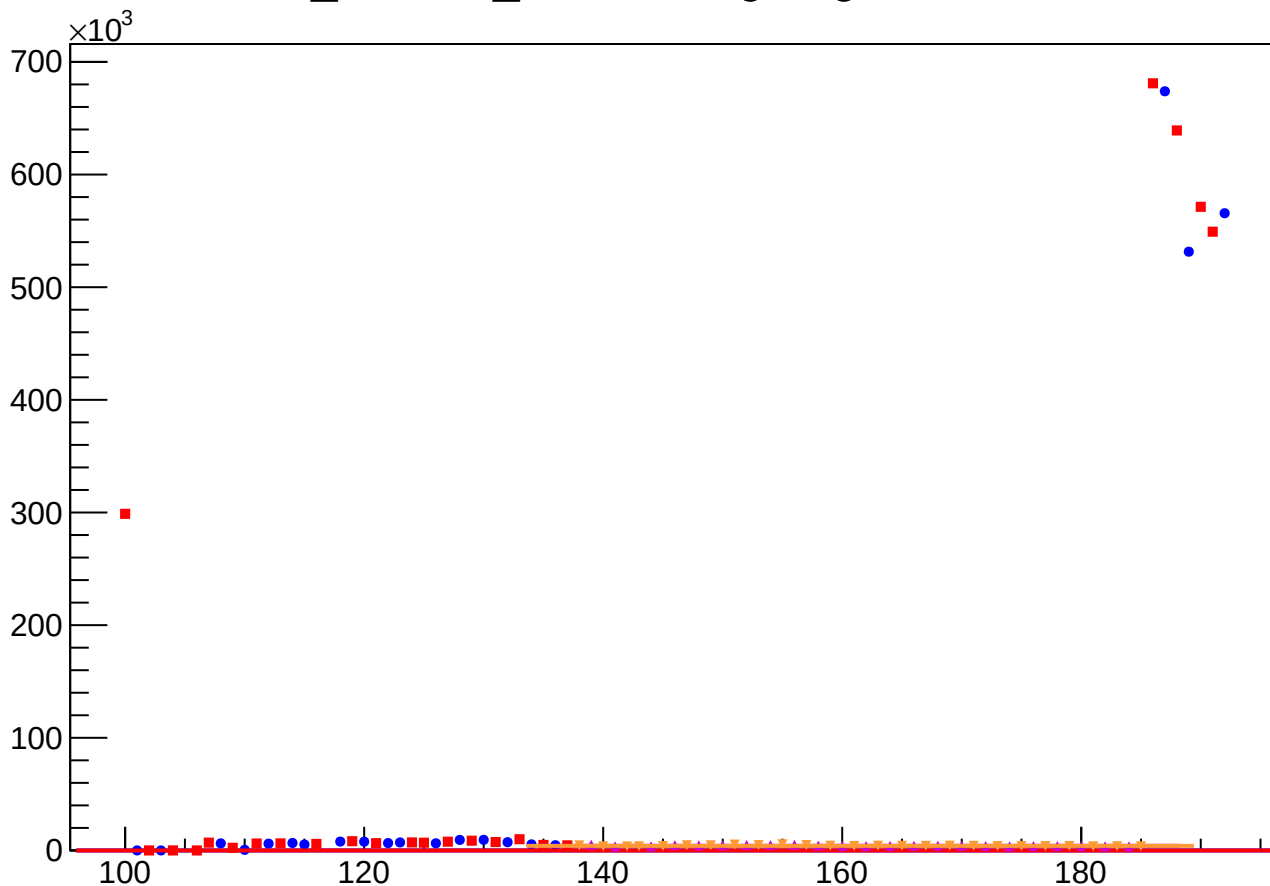
Right: 0.004 ± 0.014 χ^2/NDF : 41.7/42

In: -0.022 ± 0.021 χ^2/NDF : 46.1/42

Out: 0.025 ± 0.020 χ^2/NDF : 102.9/47

All: 0.003 ± 0.014 χ^2/NDF : 151.6/90

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.340+/-0.015 χ^2 /NDF: 13500196.5/19

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

Right Out: 17.269+/-0.014 χ^2 /NDF: 14491426.9/22

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

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

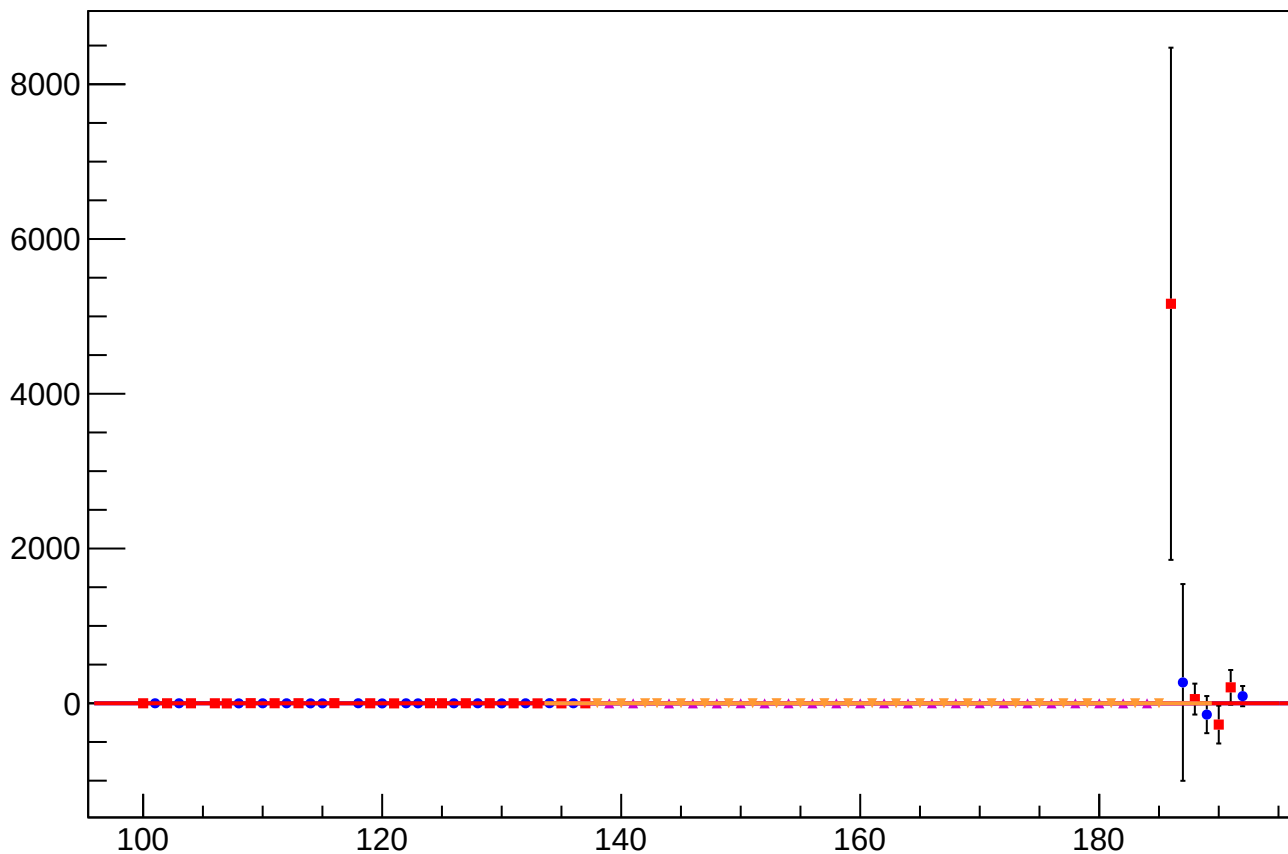
Right: 17.303+/-0.010 χ^2 /NDF: 27991635.9/42

In: 19.132+/-0.015 χ^2 /NDF: 47802713.9/42

Out: 19.000+/-0.014 χ^2 /NDF: 50844464.4/47

All: 19.063+/-0.010 χ^2 /NDF: 98647220.5/90

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 14.5/19$

Left Out: 0.148 ± 0.076 $\chi^2/\text{NDF}: 17.3/24$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 22.8/22$

Left In: -0.080 ± 0.079 $\chi^2/\text{NDF}: 34.6/22$

Left: 0.038 ± 0.055 $\chi^2/\text{NDF}: 56.3/47$

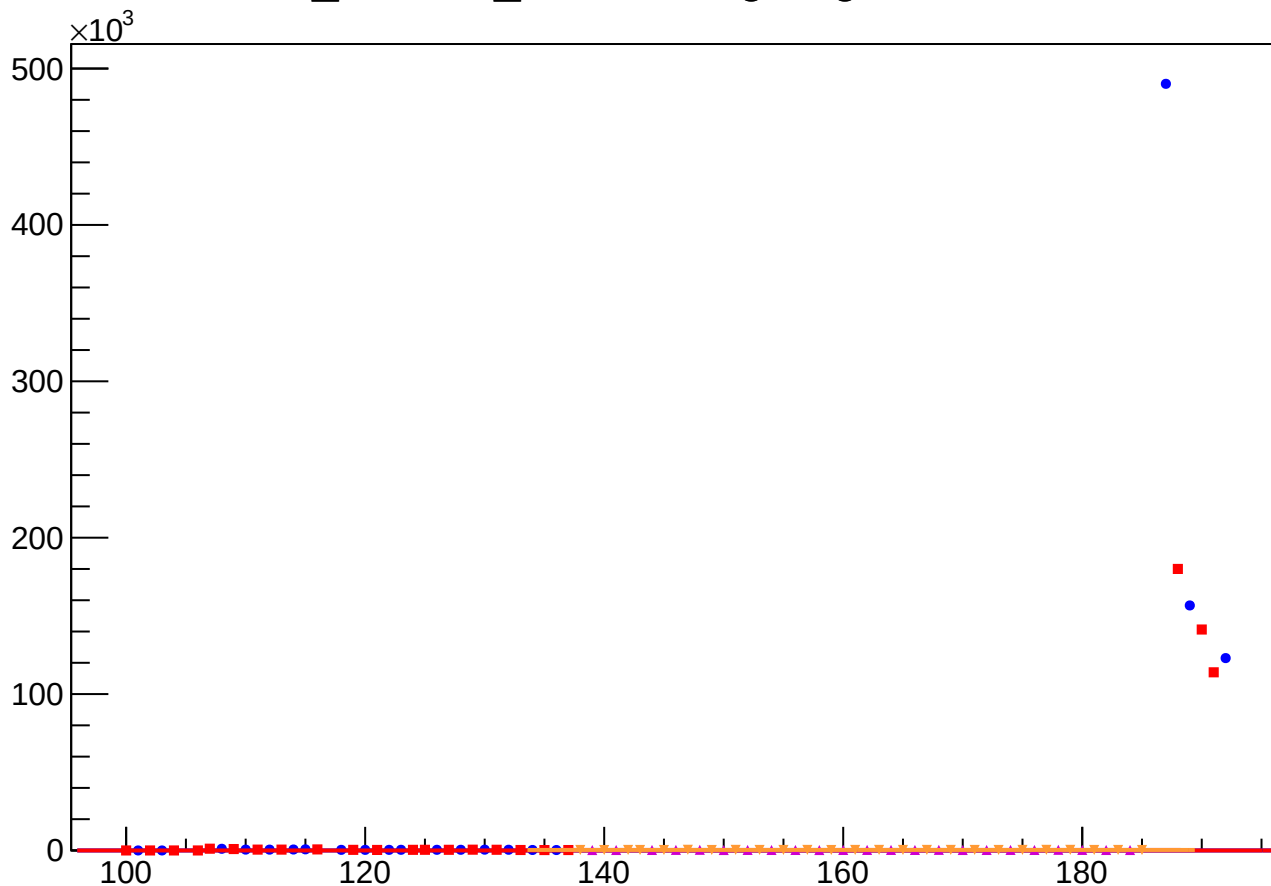
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 37.5/42$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 50.2/42$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 43.9/47$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 94.2/90$

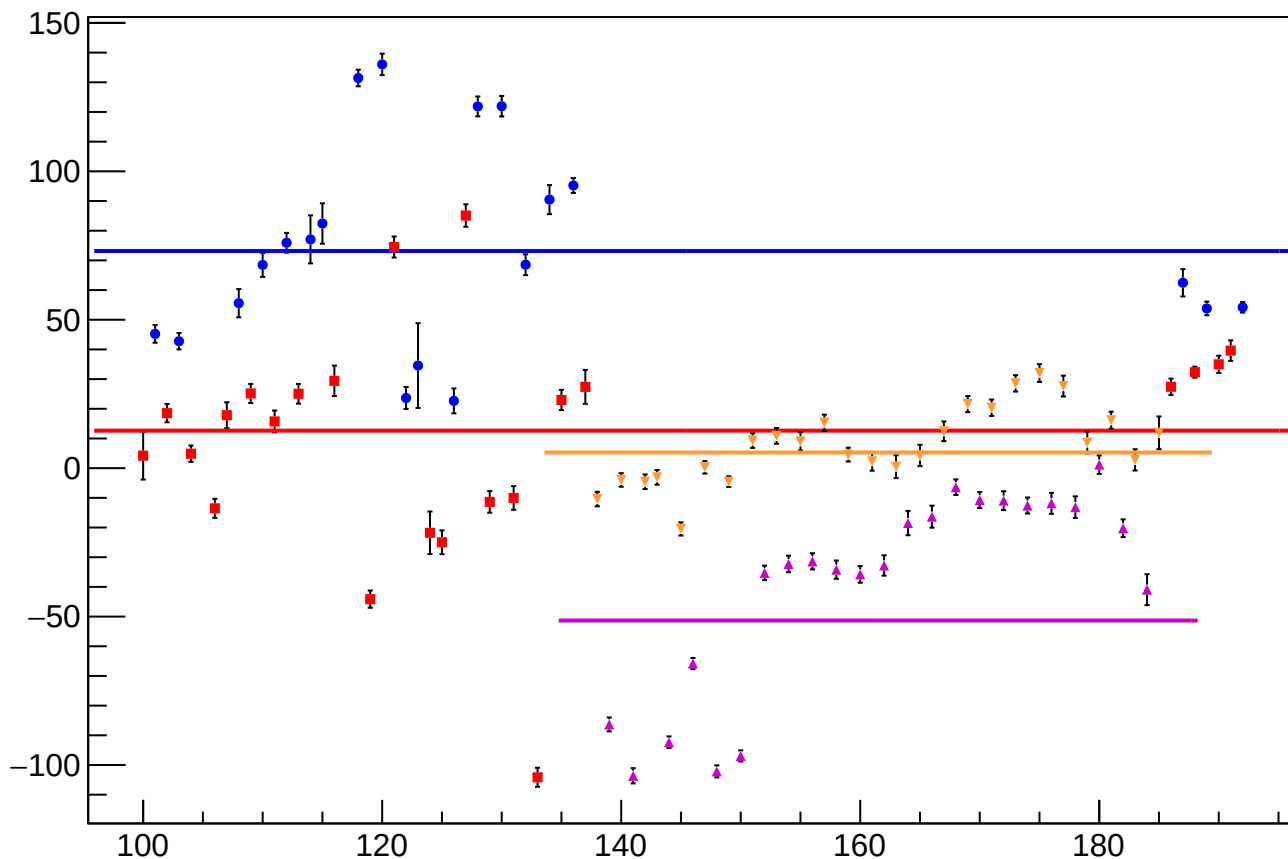
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 13931483.0/19
 Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24
 Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 13506031.7/21
 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: 27437731.7/41
 In: 1.913 $\pm$ 0.001 χ^2 /NDF:48073634.1/42
 Out: 1.936 $\pm$ 0.001 χ^2 /NDF:49713560.3/46
 All: 1.925 $\pm$ 0.001 χ^2 /NDF: 97787340.7/89

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 73.149 $\pm$ 0.740 χ^2 /NDF: 1991.2/19

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

Right Out: 12.639 $\pm$ 0.702 χ^2 /NDF: 2969.9/22

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

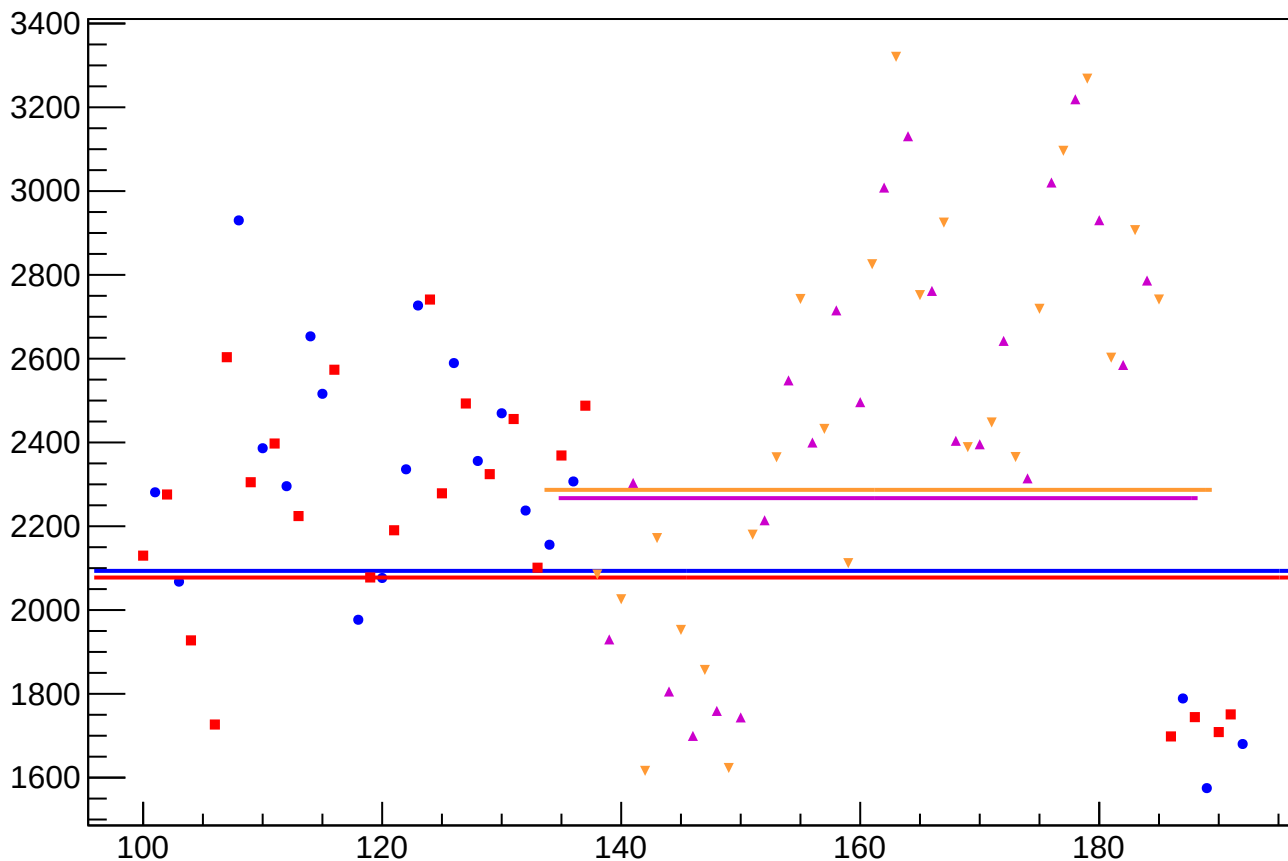
Right: 41.277 $\pm$ 0.509 χ^2 /NDF: 8482.4/42

In: -6.175 $\pm$ 0.446 χ^2 /NDF:24277.2/42

Out: 8.042 $\pm$ 0.430 χ^2 /NDF:3594.9/47

All: 1.189 $\pm$ 0.309 χ^2 /NDF: 28399.1/90

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2093.484 $\pm$ 0.523 χ^2/NDF : 422521.3/19

Left Out: 2286.871 $\pm$ 0.385 χ^2/NDF : 1360490.8/24

Right Out: 2077.613 $\pm$ 0.496 χ^2/NDF : 368707.7/22

Left In: 2267.097 $\pm$ 0.395 χ^2/NDF : 1313364.4/22

Left: 2277.239 $\pm$ 0.276 χ^2/NDF : 2675141.7/47

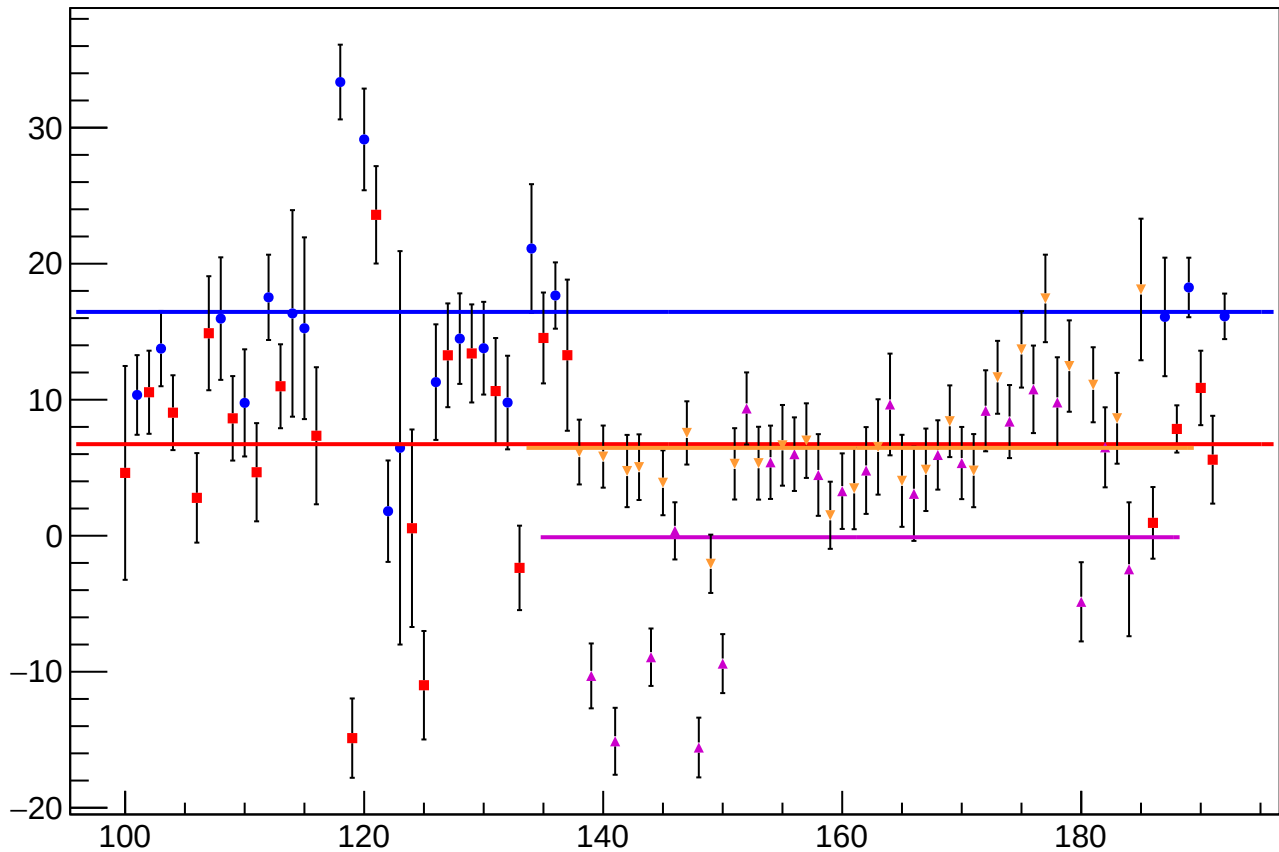
Right: 2085.125 $\pm$ 0.360 χ^2/NDF : 791713.4/42

In: 2204.121 $\pm$ 0.315 χ^2/NDF : 1806026.4/42

Out: 2208.259 $\pm$ 0.304 χ^2/NDF : 1840301.3/47

All: 2206.264 $\pm$ 0.219 χ^2/NDF : 3646417.0/90

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Left: 3.278 $\pm$ 0.393 χ^2/NDF : 363.0/47
 Right: 11.333 $\pm$ 0.495 χ^2/NDF : 316.1/42

Right In: 16.455 $\pm$ 0.720 χ^2/NDF : 81.7/19

Left Out: 6.458 $\pm$ 0.548 χ^2/NDF : 58.7/24

Right Out: 6.732 $\pm$ 0.682 χ^2/NDF : 138.2/22

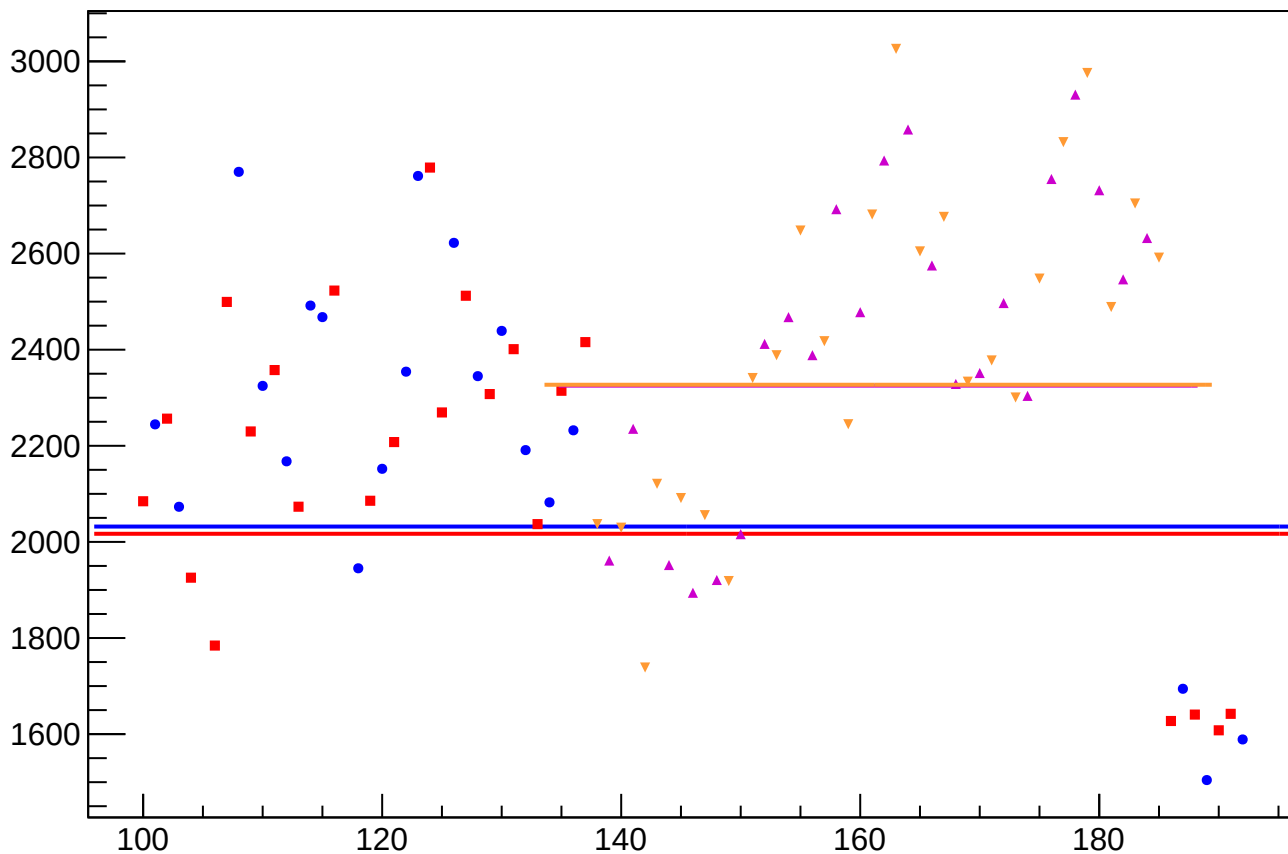
Left In: -0.110 $\pm$ 0.565 χ^2/NDF : 234.6/22

In: 6.209 $\pm$ 0.444 χ^2/NDF : 644.0/42

Out: 6.565 $\pm$ 0.427 χ^2/NDF : 197.0/47

All: 6.394 $\pm$ 0.308 χ^2/NDF : 841.4/90

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2031.951 $\pm$ 0.509 χ^2 /NDF: 490676.8/19

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

Right Out: 2016.903 $\pm$ 0.482 χ^2 /NDF: 437653.2/22

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

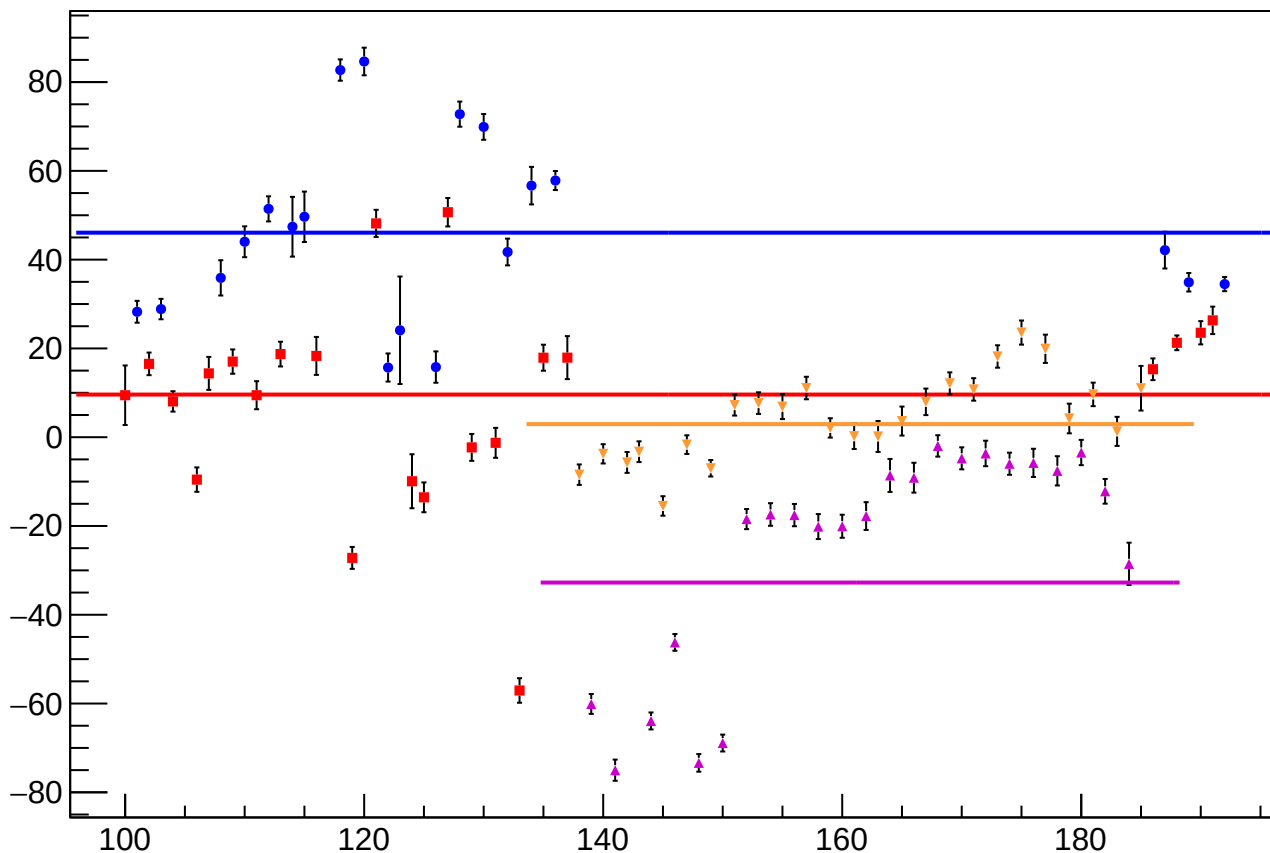
Right: 2024.024 $\pm$ 0.350 χ^2 /NDF: 928790.6/42

In: 2213.323 $\pm$ 0.314 χ^2 /NDF: 1306775.3/42

Out: 2205.514 $\pm$ 0.302 χ^2 /NDF: 1335785.8/47

All: 2209.262 $\pm$ 0.218 χ^2 /NDF: 2642882.2/90

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 46.076±/0.639 χ^2/NDF : 950.3/19

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

Right Out: 9.607±/0.604 χ^2/NDF : 1412.4/22

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

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

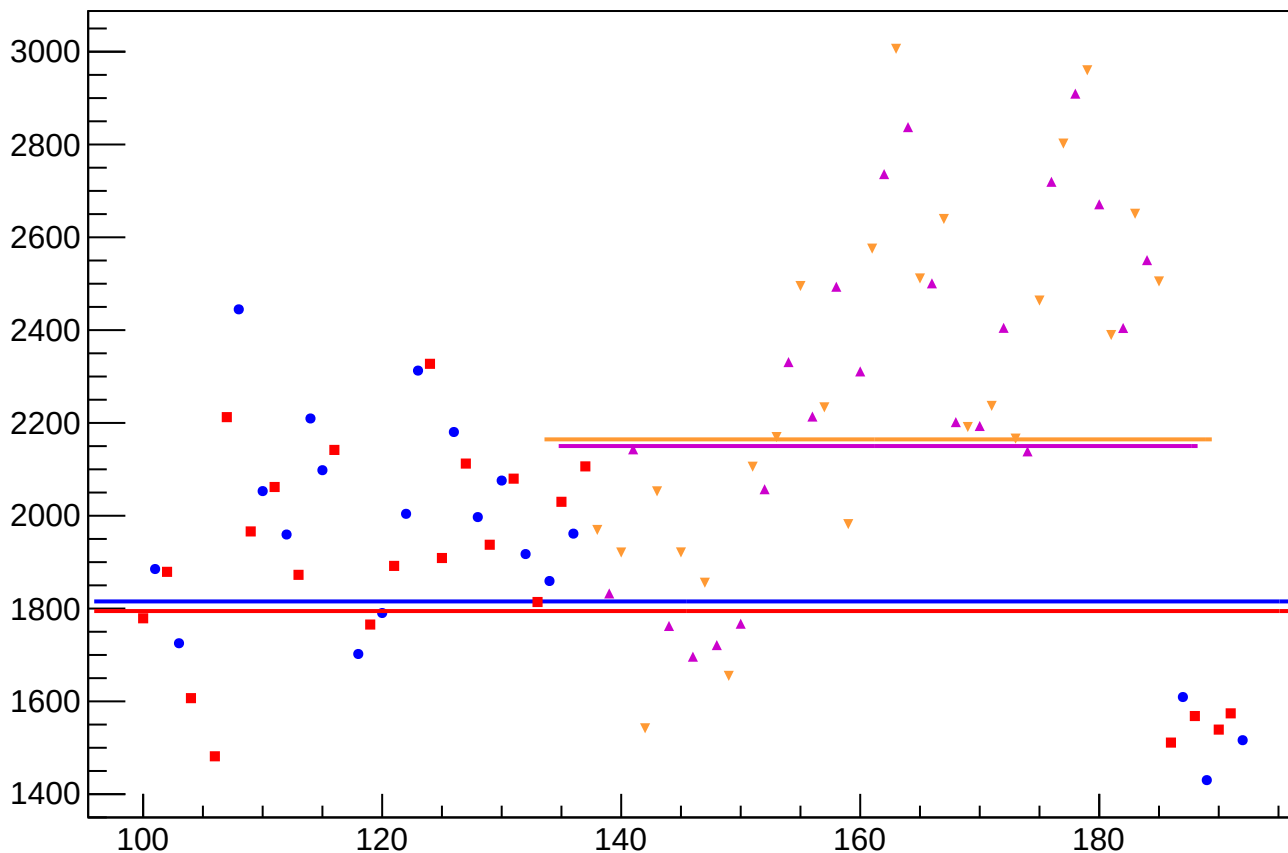
Right: 26.824±/0.439 χ^2/NDF : 4081.9/42

In: -0.902±/0.406 χ^2/NDF :12650.3/42

Out: 5.733±/0.391 χ^2/NDF :1820.8/47

All: 2.545±/0.282 χ^2/NDF : 14609.7/90

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1815.353 ± 0.452 $\chi^2/\text{NDF}: 297088.3/19$

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

Right Out: 1794.611 ± 0.427 $\chi^2/\text{NDF}: 276598.3/22$

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

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

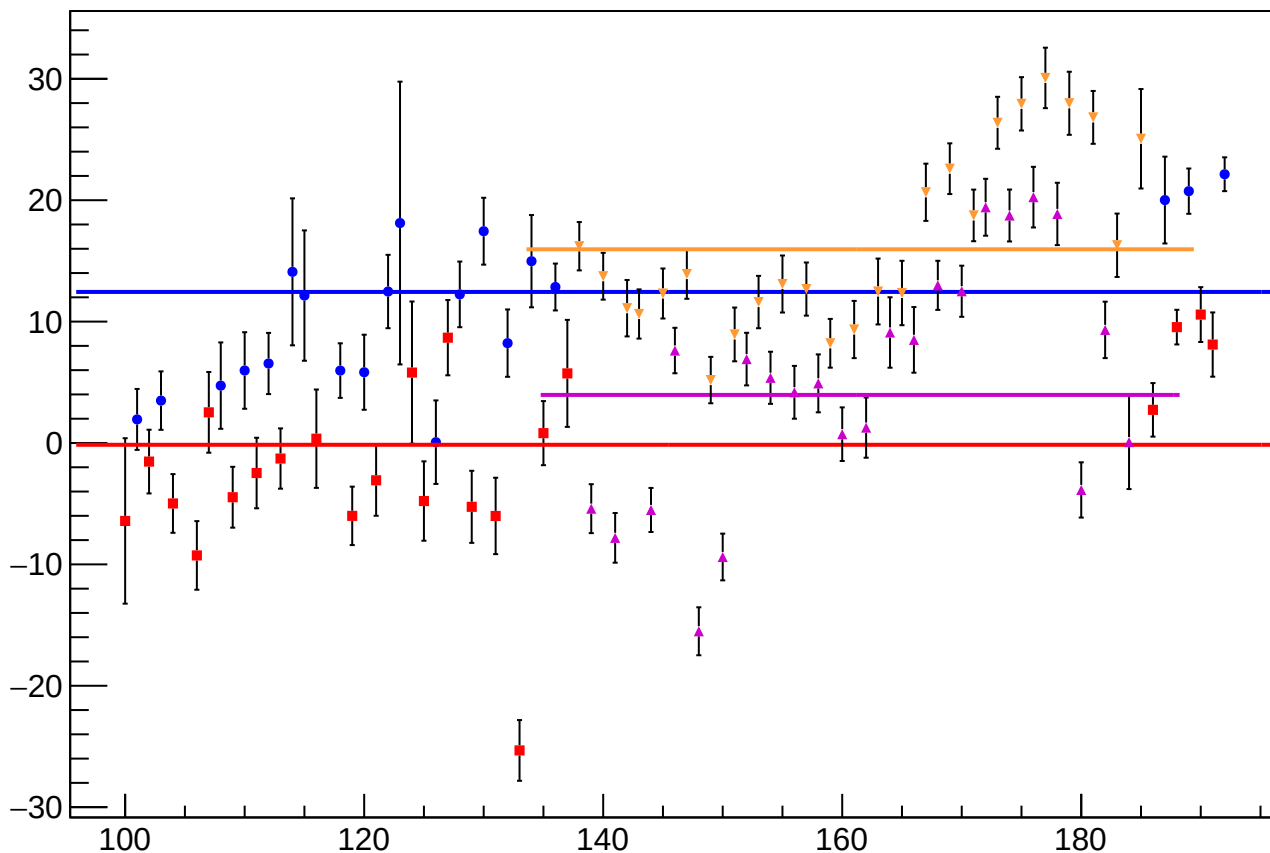
Right: 1804.403 ± 0.310 $\chi^2/\text{NDF}: 574798.8/42$

In: 2014.920 ± 0.287 $\chi^2/\text{NDF}: 1536197.2/42$

Out: 2010.007 ± 0.276 $\chi^2/\text{NDF}: 1678605.2/47$

All: 2012.368 ± 0.199 $\chi^2/\text{NDF}: 3214954.4/90$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 12.444 ± 0.592 $\chi^2/\text{NDF}: 150.7/19$

Left Out: 15.956 ± 0.447 $\chi^2/\text{NDF}: 245.2/24$

Right Out: -0.147 ± 0.561 $\chi^2/\text{NDF}: 227.8/22$

Left In: 3.960 ± 0.463 $\chi^2/\text{NDF}: 464.9/22$

Left: 10.161 ± 0.322 $\chi^2/\text{NDF}: 1057.3/47$

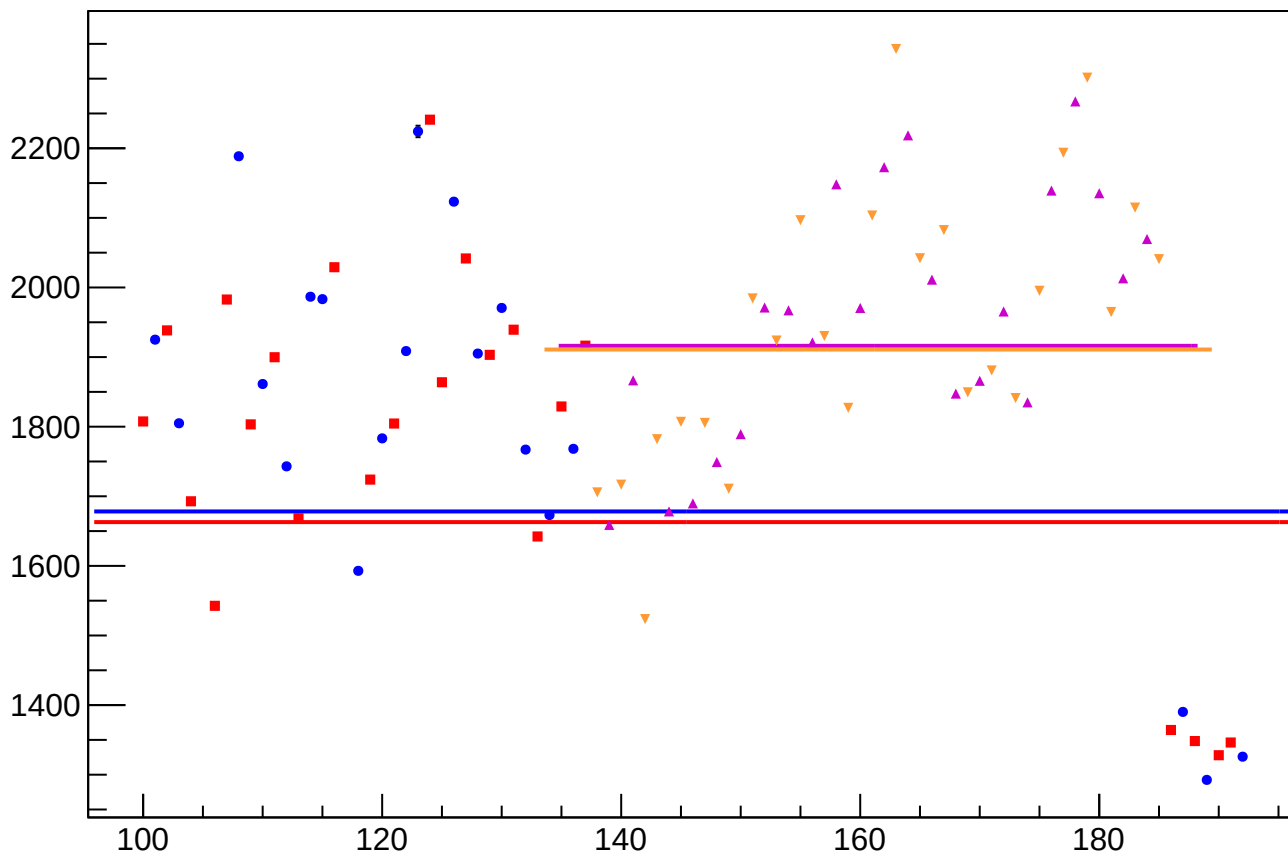
Right: 5.810 ± 0.407 $\chi^2/\text{NDF}: 616.7/42$

In: 7.177 ± 0.365 $\chi^2/\text{NDF}: 743.0/42$

Out: 9.698 ± 0.350 $\chi^2/\text{NDF}: 976.4/47$

All: 8.490 ± 0.252 $\chi^2/\text{NDF}: 1744.3/90$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1678.209 $\pm$ 0.419 χ^2 /NDF: 409805.9/19

Left Out: 1910.859 $\pm$ 0.316 χ^2 /NDF:328970.6/24

Right Out: 1662.904 $\pm$ 0.397 χ^2 /NDF: 393826.0/22

Left In: 1916.159 $\pm$ 0.327 χ^2 /NDF:274285.3/22

Left: 1913.419 $\pm$ 0.227 χ^2 /NDF: 603391.5/47

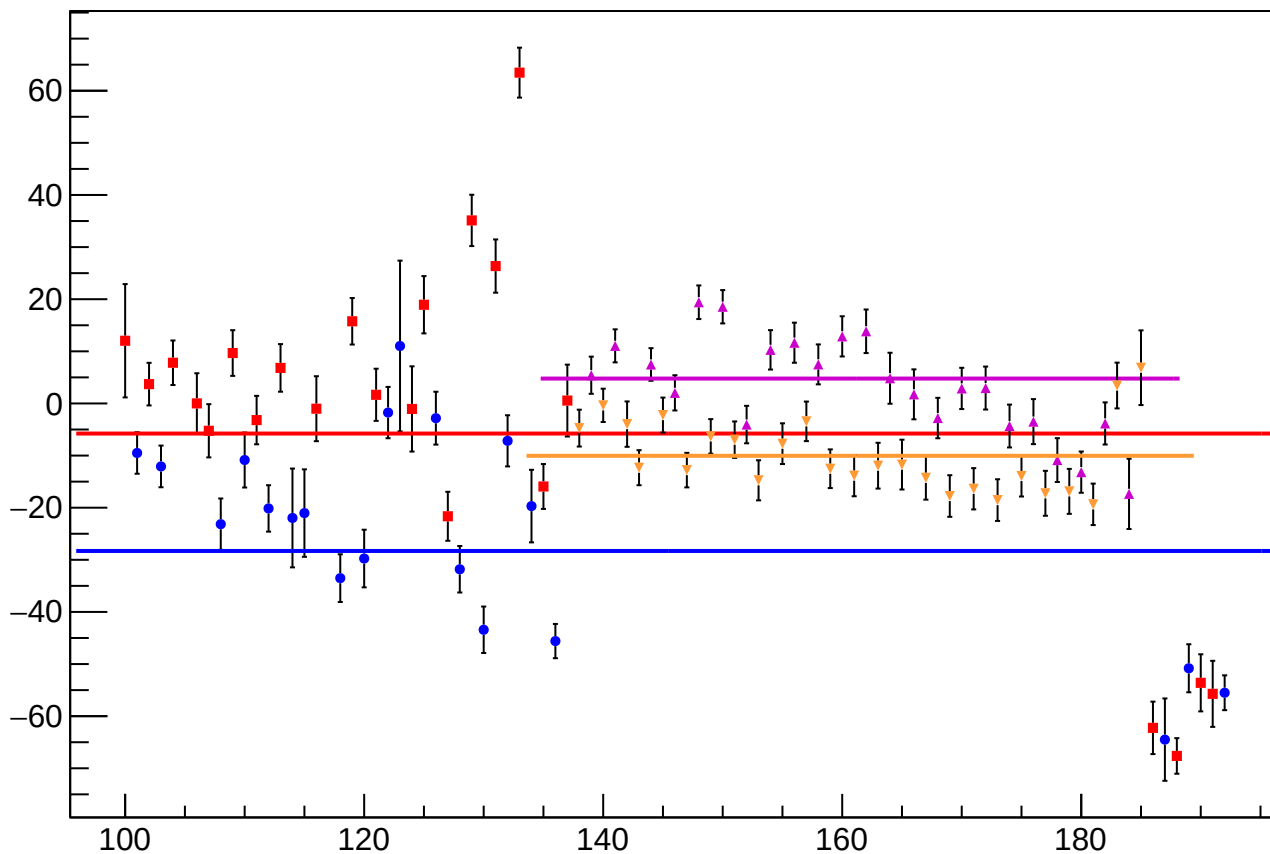
Right: 1670.145 $\pm$ 0.288 χ^2 /NDF: 804335.7/42

In: 1825.938 $\pm$ 0.258 χ^2 /NDF:884531.0/42

Out: 1814.504 $\pm$ 0.247 χ^2 /NDF:961507.8/47

All: 1819.984 $\pm$ 0.179 χ^2 /NDF: 1847062.8/90

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -28.302 ± 1.084 χ^2/NDF : 287.8/19

Left Out: -10.042 ± 0.776 χ^2/NDF : 67.1/24

Right Out: -5.773 ± 1.038 χ^2/NDF : 1014.1/22

Left In: 4.774 ± 0.800 χ^2/NDF : 128.5/22

Left: -2.861 ± 0.557 χ^2/NDF : 372.2/47

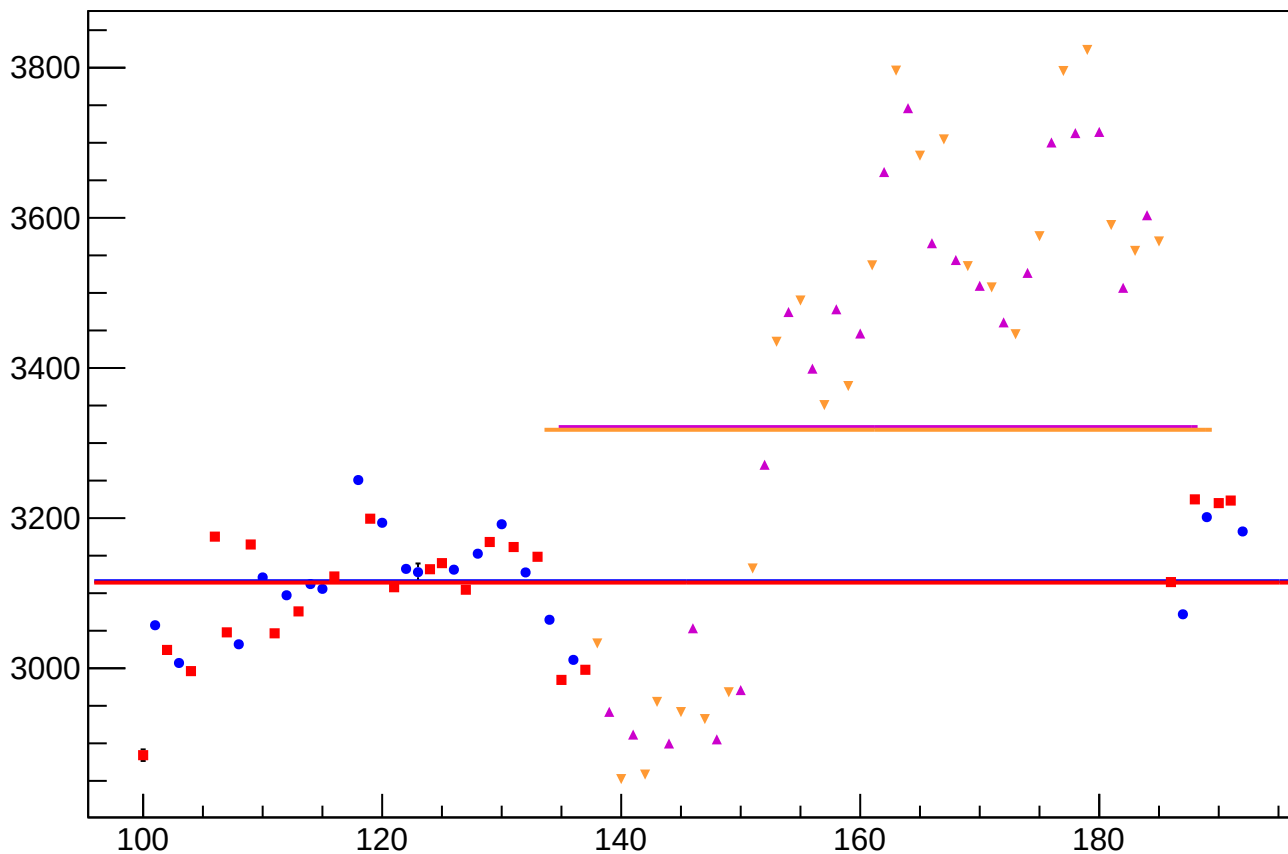
Right: -16.545 ± 0.750 χ^2/NDF : 1527.3/42

In: -6.896 ± 0.644 χ^2/NDF : 1018.7/42

Out: -8.510 ± 0.622 χ^2/NDF : 1092.1/47

All: -7.731 ± 0.447 χ^2/NDF : 2114.0/90

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3115.987 $\pm$ 0.767 χ^2 /NDF: 9116.8/19

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

Right Out: 3114.145 $\pm$ 0.734 χ^2 /NDF: 11922.8/22

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

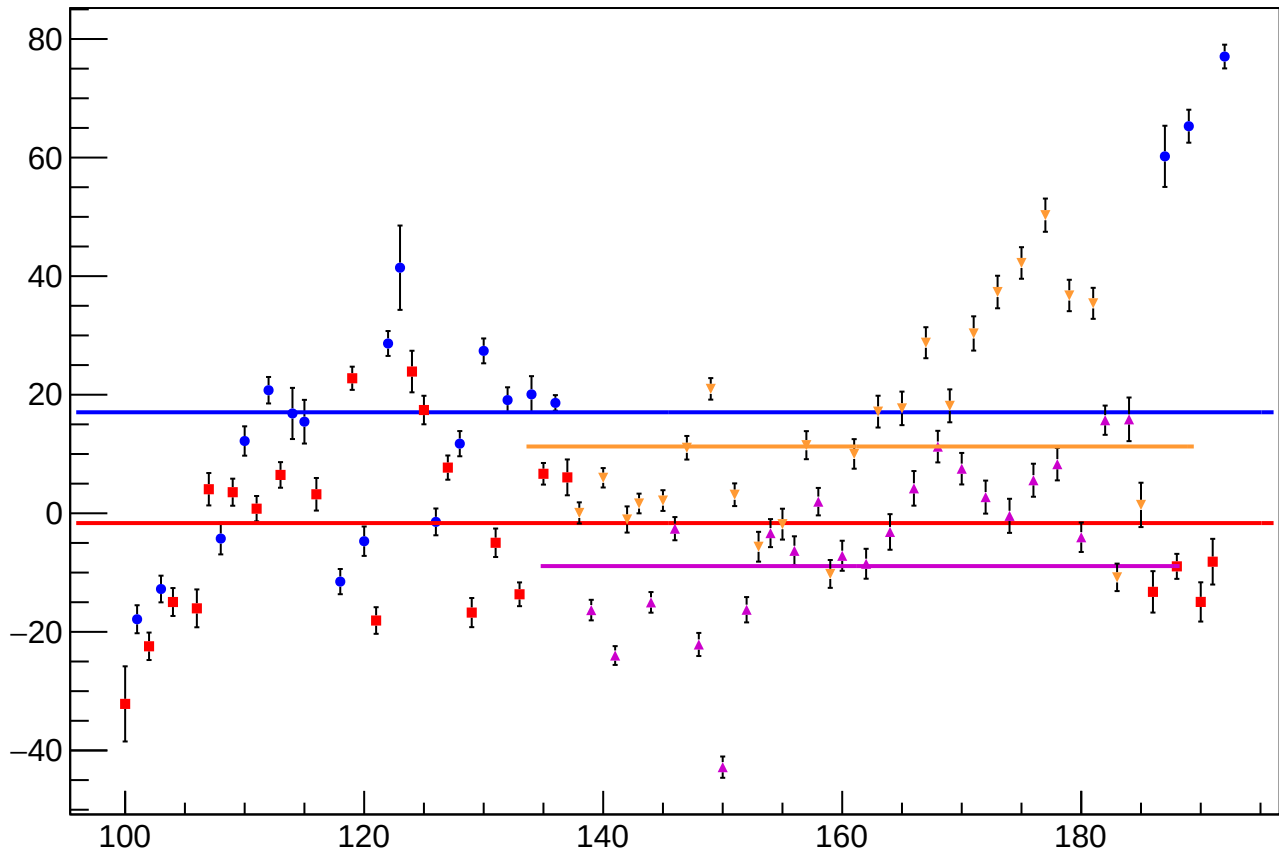
Right: 3115.025 $\pm$ 0.530 χ^2 /NDF: 21042.6/42

In: 3248.843 $\pm$ 0.455 χ^2 /NDF:339863.3/42

Out: 3244.653 $\pm$ 0.440 χ^2 /NDF:398140.0/47

All: 3246.674 $\pm$ 0.316 χ^2 /NDF: 738047.1/90

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.039 $\pm$ 0.527 χ^2/NDF : 2133.5/19

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

Right Out: -1.651 $\pm$ 0.513 χ^2/NDF : 675.5/22

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

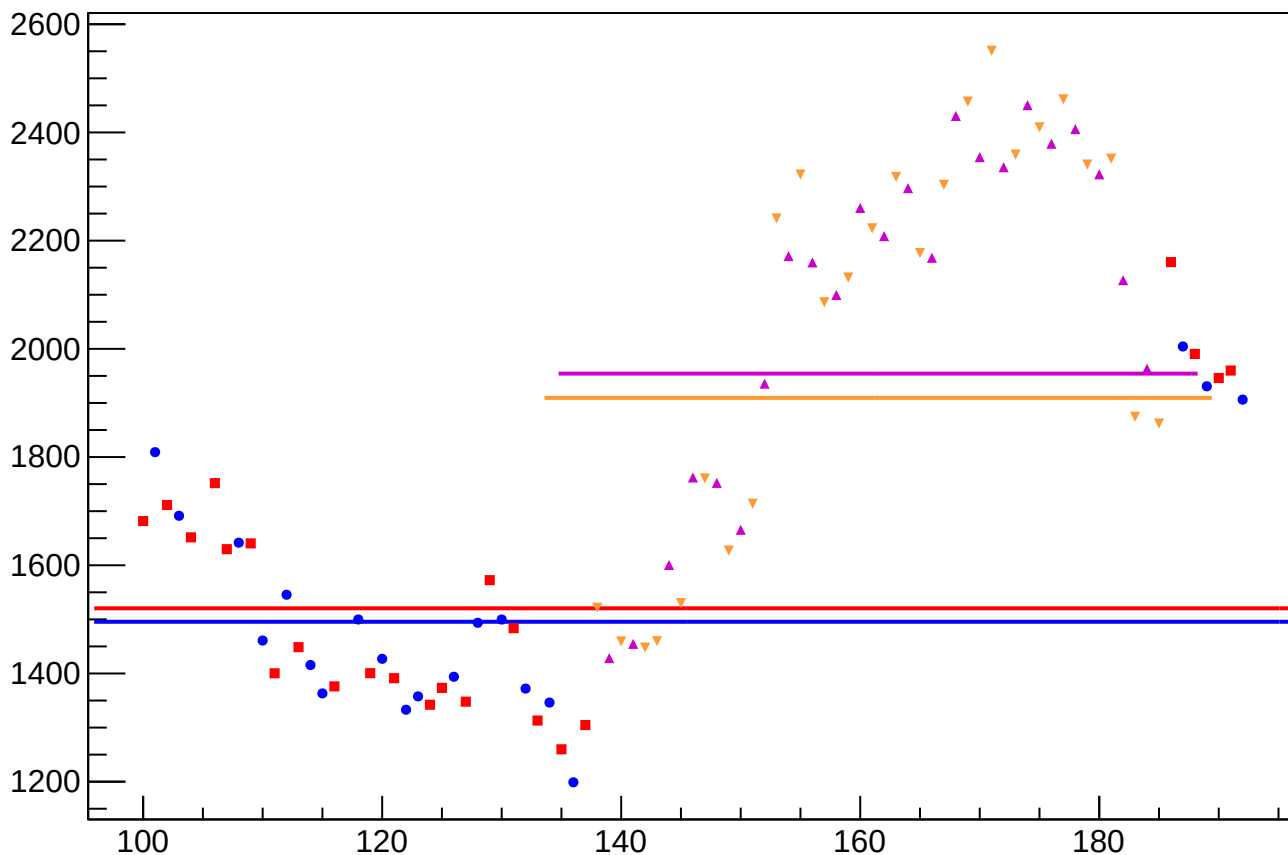
Right: 7.444 $\pm$ 0.368 χ^2/NDF : 3454.5/42

In: 2.791 $\pm$ 0.354 χ^2/NDF : 4400.5/42

Out: 5.590 $\pm$ 0.340 χ^2/NDF : 2172.5/47

All: 4.246 $\pm$ 0.245 χ^2/NDF : 6605.5/90

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1495.563 $\pm$ 0.373 χ^2/NDF : 345211.7/19

Left Out: 1909.387 $\pm$ 0.321 χ^2/NDF :1398498.0/24

Right Out: 1520.458 $\pm$ 0.363 χ^2/NDF : 394888.0/22

Left In: 1954.236 $\pm$ 0.338 χ^2/NDF :1044826.7/22

Left: 1930.697 $\pm$ 0.233 χ^2/NDF : 2452584.2/47

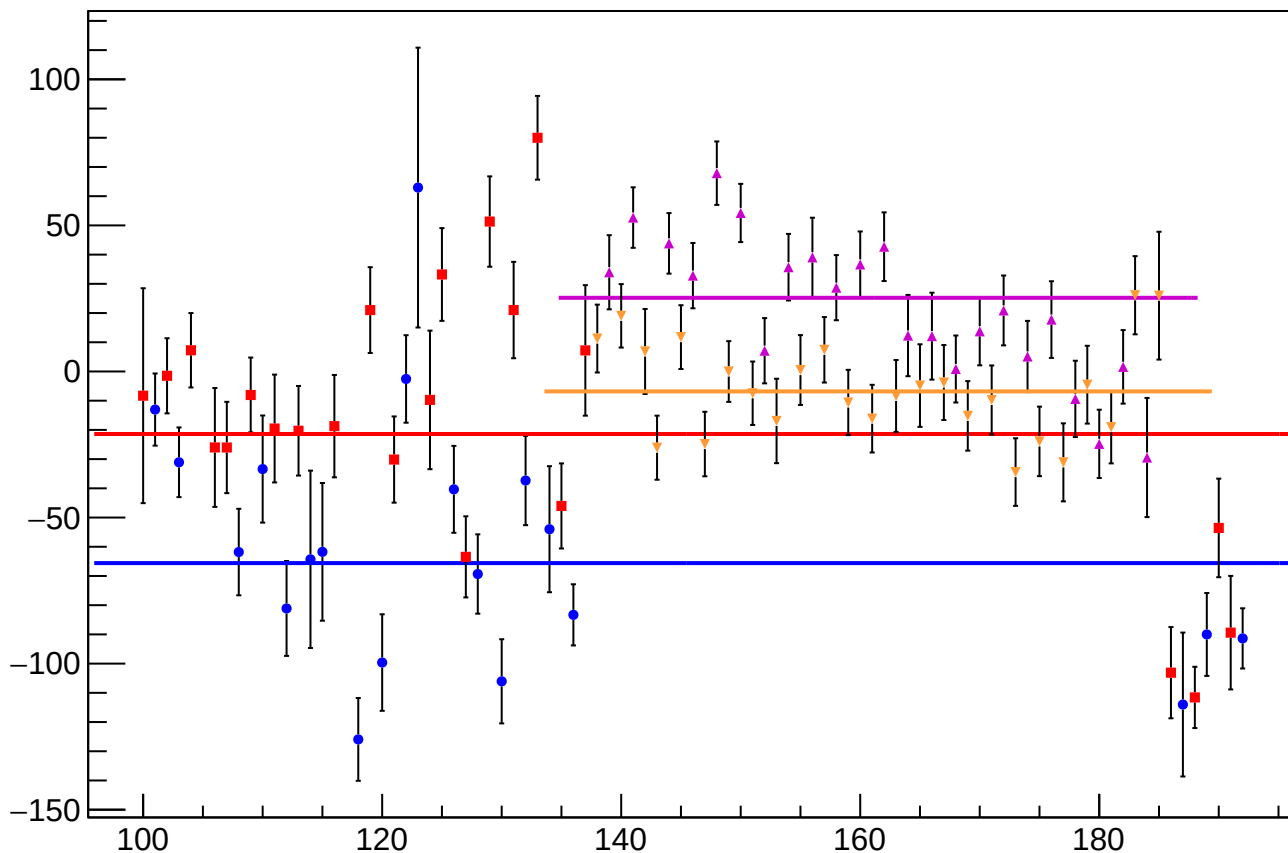
Right: 1508.344 $\pm$ 0.260 χ^2/NDF : 742390.6/42

In: 1747.463 $\pm$ 0.250 χ^2/NDF :2221884.8/42

Out: 1738.457 $\pm$ 0.241 χ^2/NDF :2437429.9/47

All: 1742.782 $\pm$ 0.173 χ^2/NDF : 4659988.0/90

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -65.590 ± 3.377 $\chi^2/\text{NDF}: 108.4/19$

Left Out: -6.825 ± 2.423 $\chi^2/\text{NDF}: 42.3/24$

Right Out: -21.401 ± 3.245 $\chi^2/\text{NDF}: 239.3/22$

Left In: 25.215 ± 2.487 $\chi^2/\text{NDF}: 89.3/22$

Left: 8.777 ± 1.735 $\chi^2/\text{NDF}: 216.8/47$

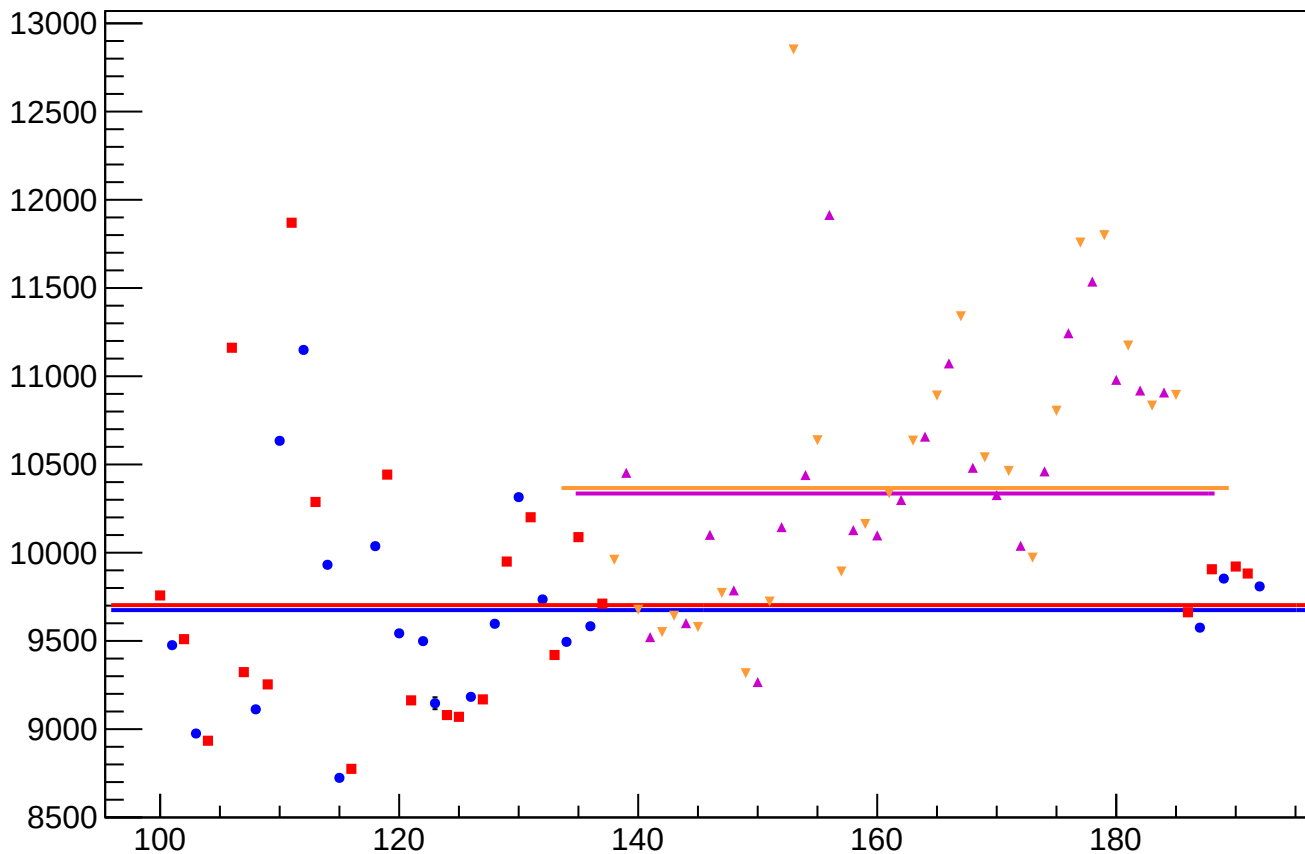
Right: -42.616 ± 2.340 $\chi^2/\text{NDF}: 436.7/42$

In: -6.713 ± 2.002 $\chi^2/\text{NDF}: 666.6/42$

Out: -12.041 ± 1.941 $\chi^2/\text{NDF}: 294.5/47$

All: -9.460 ± 1.394 $\chi^2/\text{NDF}: 964.8/90$

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9674.672 ± 2.388 $\chi^2/\text{NDF}: 44796.8/19$

Left Out: 10366.534 ± 1.713 $\chi^2/\text{NDF}: 211402.8/24$

Right Out: 9702.861 ± 2.294 $\chi^2/\text{NDF}: 78823.6/22$

Left In: 10335.399 ± 1.758 $\chi^2/\text{NDF}: 127173.0/22$

Left: 10351.373 ± 1.227 $\chi^2/\text{NDF}: 338736.7/47$

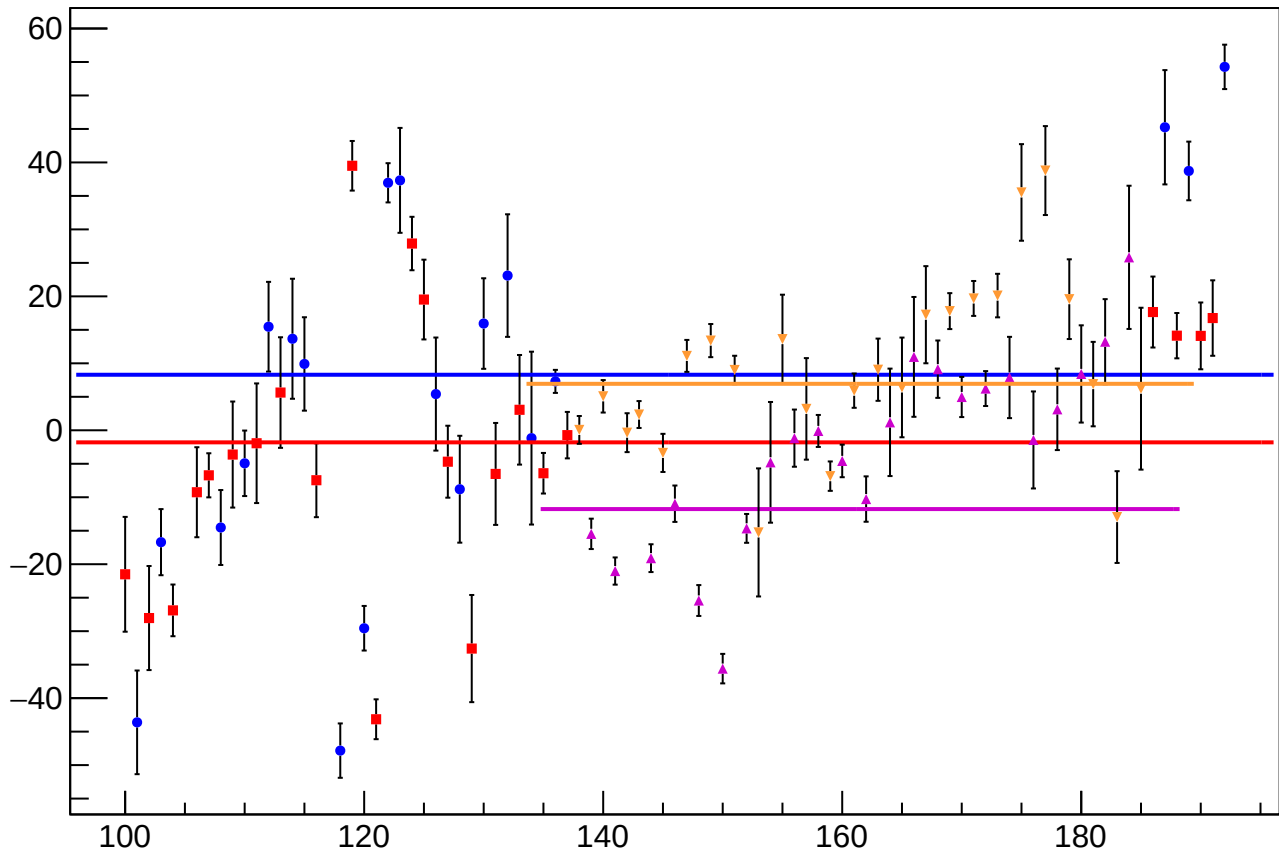
Right: 9689.327 ± 1.654 $\chi^2/\text{NDF}: 123692.9/42$

In: 10103.078 ± 1.416 $\chi^2/\text{NDF}: 221621.0/42$

Out: 10129.004 ± 1.373 $\chi^2/\text{NDF}: 343949.8/47$

All: 10116.443 ± 0.986 $\chi^2/\text{NDF}: 565743.6/90$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 8.294 ± 0.983 $\chi^2/\text{NDF}: 794.8/19$

Left Out: 6.939 ± 0.639 $\chi^2/\text{NDF}: 203.8/24$

Right Out: -1.803 ± 0.984 $\chi^2/\text{NDF}: 524.7/22$

Left In: -11.766 ± 0.648 $\chi^2/\text{NDF}: 395.1/22$

Left: -2.274 ± 0.455 $\chi^2/\text{NDF}: 1021.3/47$

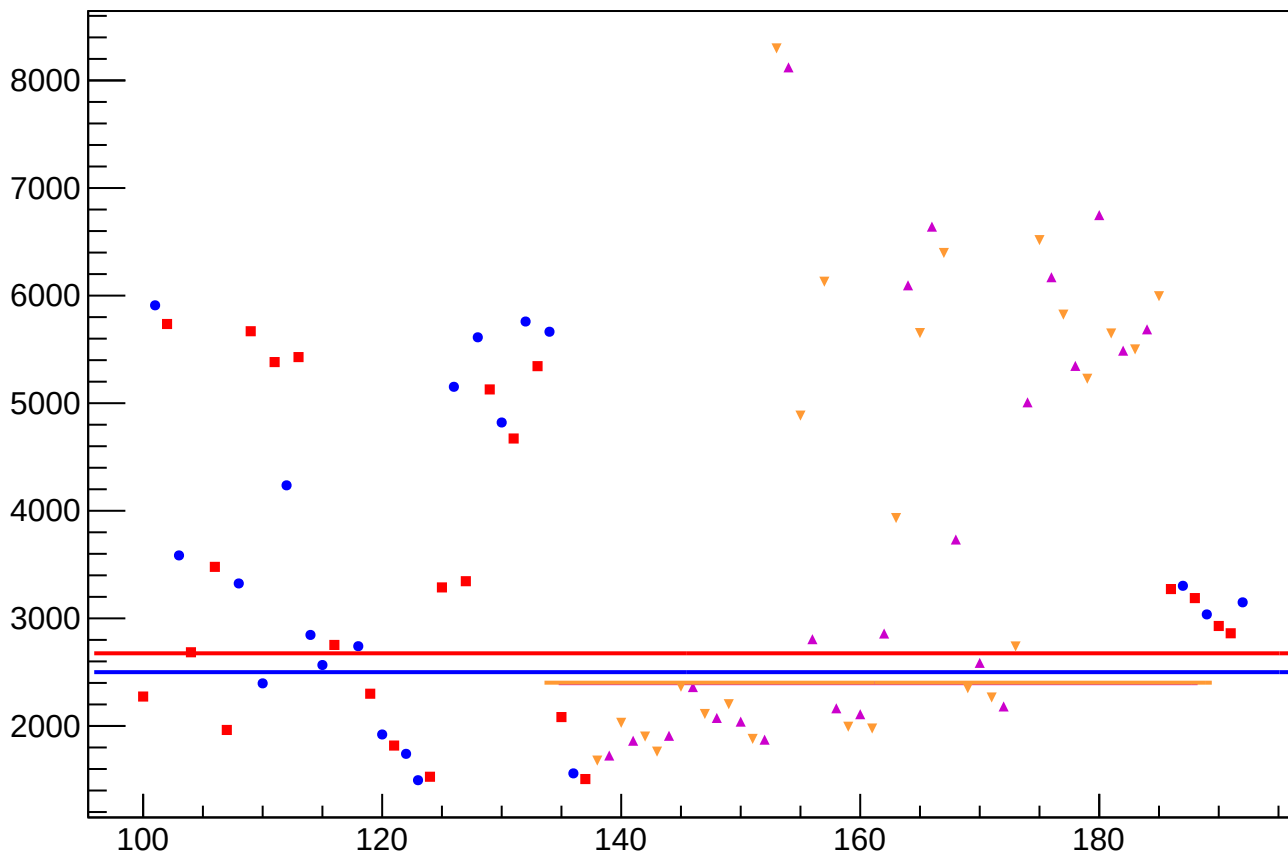
Right: 3.249 ± 0.695 $\chi^2/\text{NDF}: 1372.2/42$

In: -5.685 ± 0.541 $\chi^2/\text{NDF}: 1480.1/42$

Out: 4.346 ± 0.536 $\chi^2/\text{NDF}: 784.1/47$

All: -0.618 ± 0.381 $\chi^2/\text{NDF}: 2437.7/90$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2500.150 ± 0.695 $\chi^2/\text{NDF}: 2734869.0/19$

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

Right Out: 2675.309 ± 0.696 $\chi^2/\text{NDF}: 2453657.4/22$

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

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

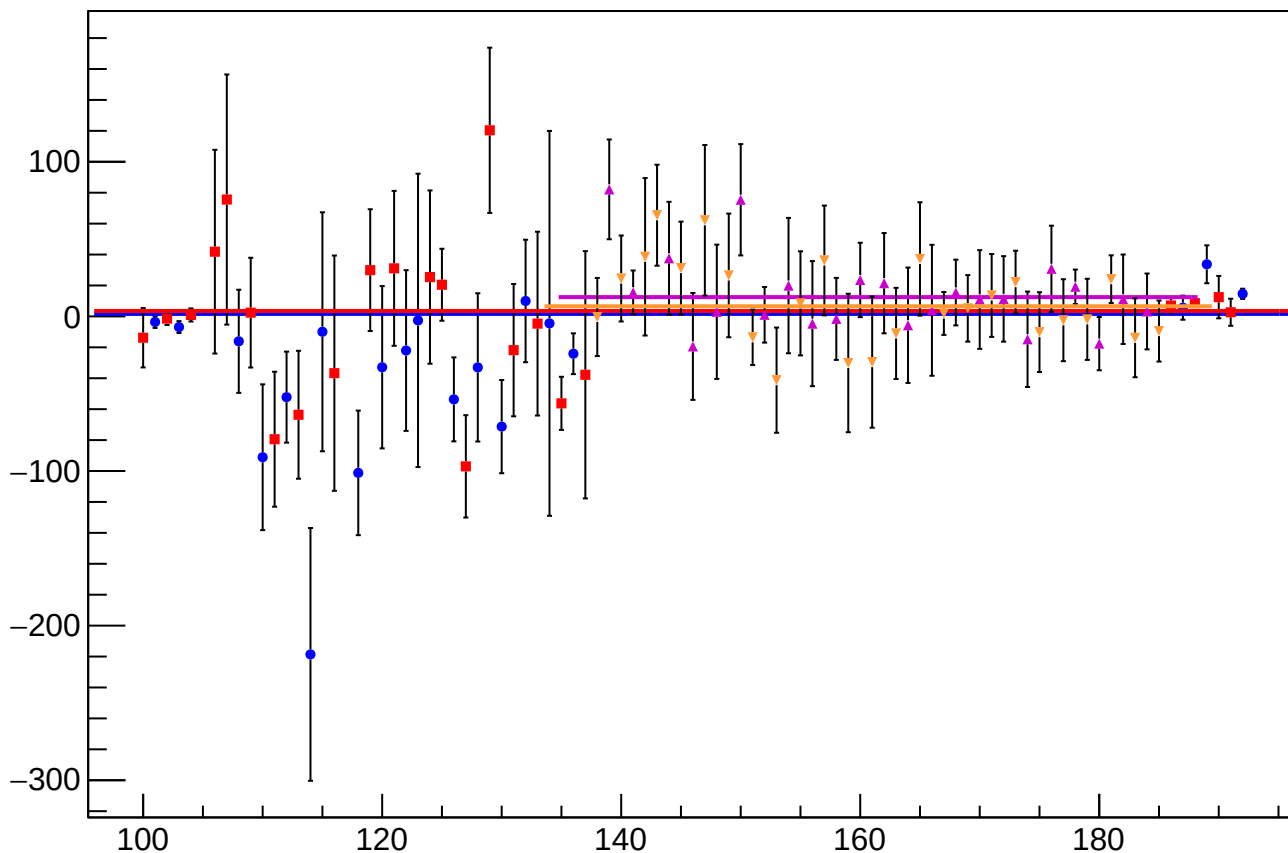
Right: 2587.665 ± 0.492 $\chi^2/\text{NDF}: 5220253.0/42$

In: 2428.758 ± 0.383 $\chi^2/\text{NDF}: 8148927.1/42$

Out: 2483.307 ± 0.379 $\chi^2/\text{NDF}: 8907947.2/47$

All: 2456.311 ± 0.269 $\chi^2/\text{NDF}: 17067136.3/9$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 1.605 $\pm$ 1.943 χ^2 /NDF: 65.9/19

Left Out: 6.560 $\pm$ 5.077 χ^2 /NDF:16.8/24

Right Out: 3.502 $\pm$ 1.816 χ^2 /NDF: 42.3/22

Left In: 12.469 $\pm$ 5.025 χ^2 /NDF:15.4/22

Left: 9.545 $\pm$ 3.572 χ^2 /NDF: 32.8/47

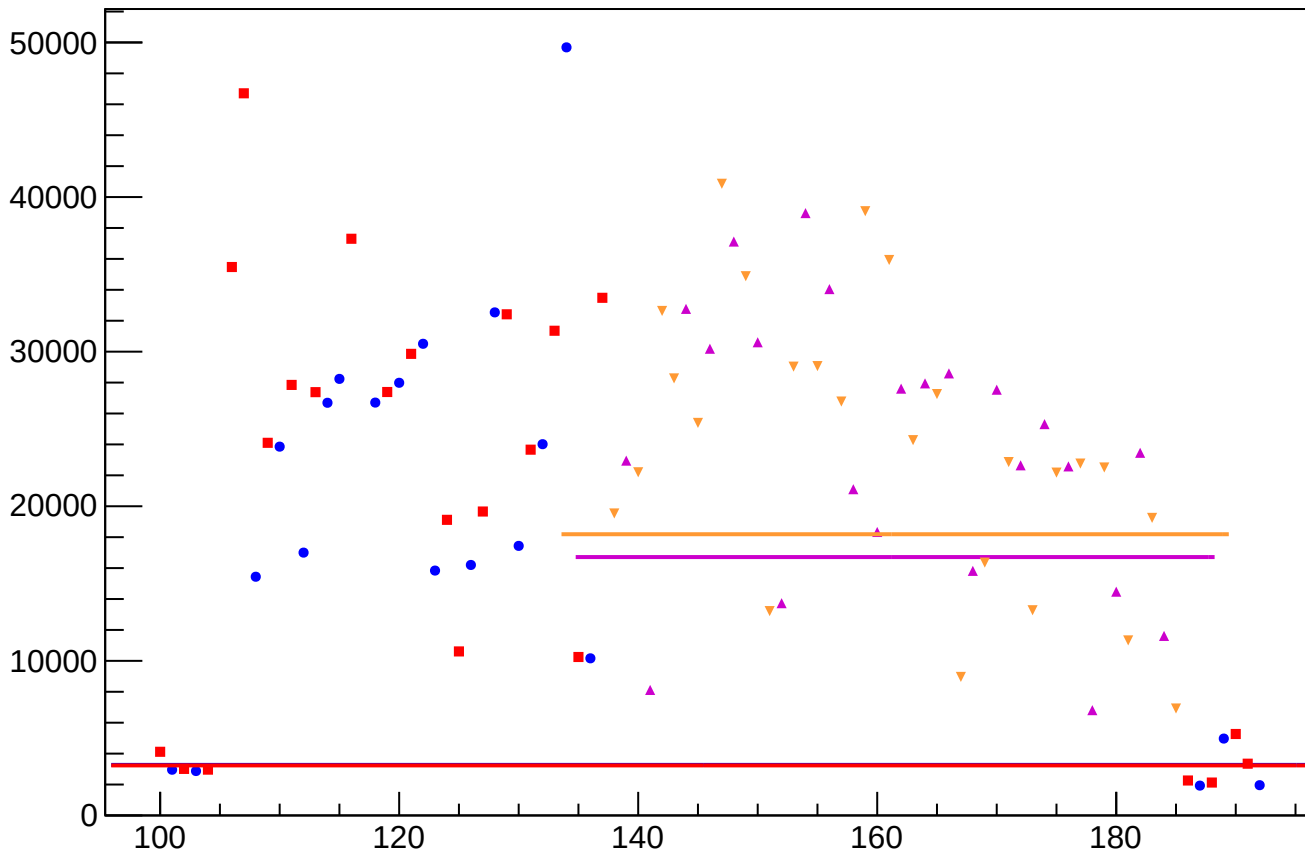
Right: 2.617 $\pm$ 1.326 χ^2 /NDF: 108.7/42

In: 3.017 $\pm$ 1.812 χ^2 /NDF:85.3/42

Out: 3.848 $\pm$ 1.710 χ^2 /NDF:59.4/47

All: 3.457 $\pm$ 1.244 χ^2 /NDF: 144.8/90

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 3270.413 ± 1.374 $\chi^2/\text{NDF}: 6625298.5/19$

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

Right Out: 3237.156 ± 1.284 $\chi^2/\text{NDF}: 8177181.5/22$

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

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

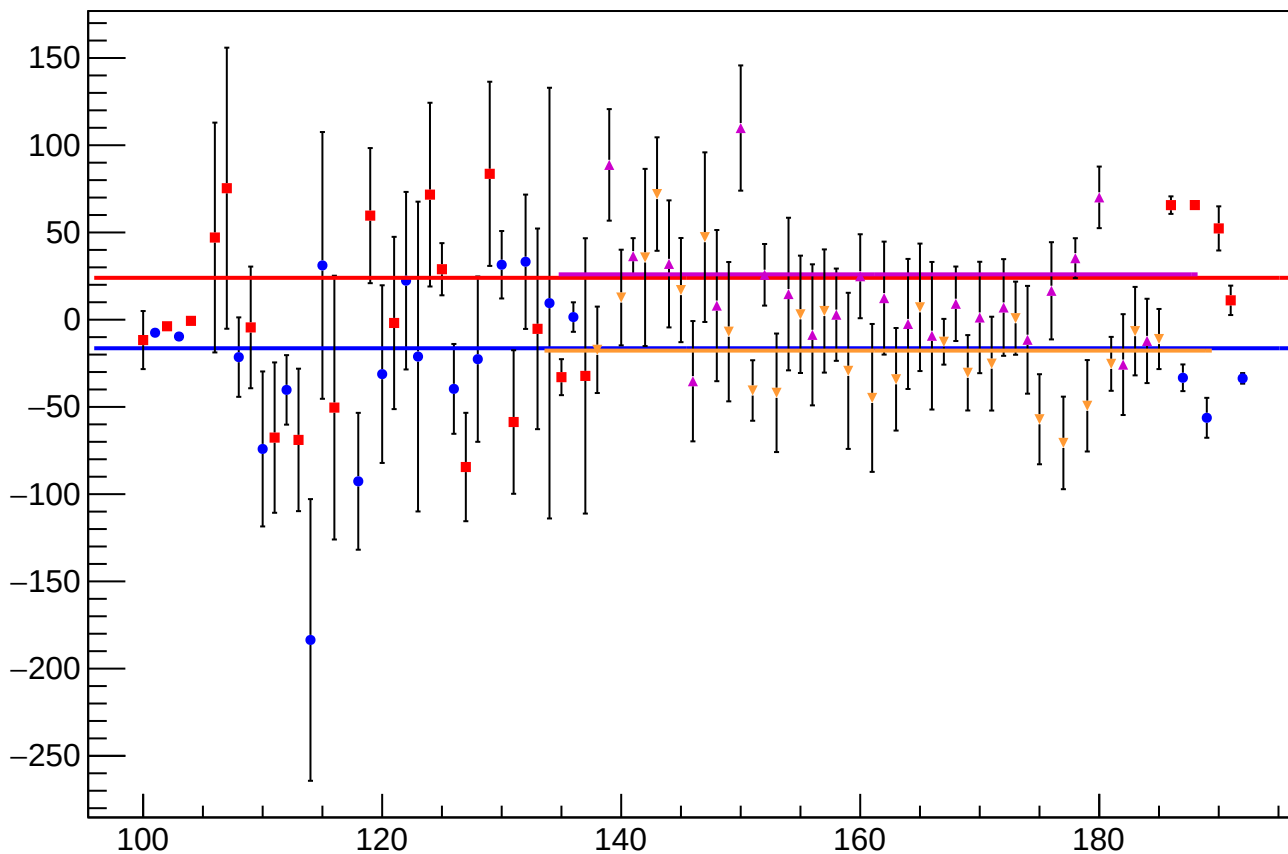
Right: 3252.662 ± 0.938 $\chi^2/\text{NDF}: 14802792.9/42$

In: 5018.147 ± 1.281 $\chi^2/\text{NDF}: 25271296.3/42$

Out: 4932.533 ± 1.209 $\chi^2/\text{NDF}: 28818300.9/47$

All: 4972.855 ± 0.879 $\chi^2/\text{NDF}: 54091959.3/95$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -16.370 $\pm$ 1.490 χ^2/NDF : 92.9/19

Left Out: -17.717 $\pm$ 4.974 χ^2/NDF : 27.2/24

Right Out: 23.998 $\pm$ 1.462 χ^2/NDF : 552.8/22

Left In: 25.991 $\pm$ 4.789 χ^2/NDF : 32.6/22

Left: 4.967 $\pm$ 3.450 χ^2/NDF : 99.8/47

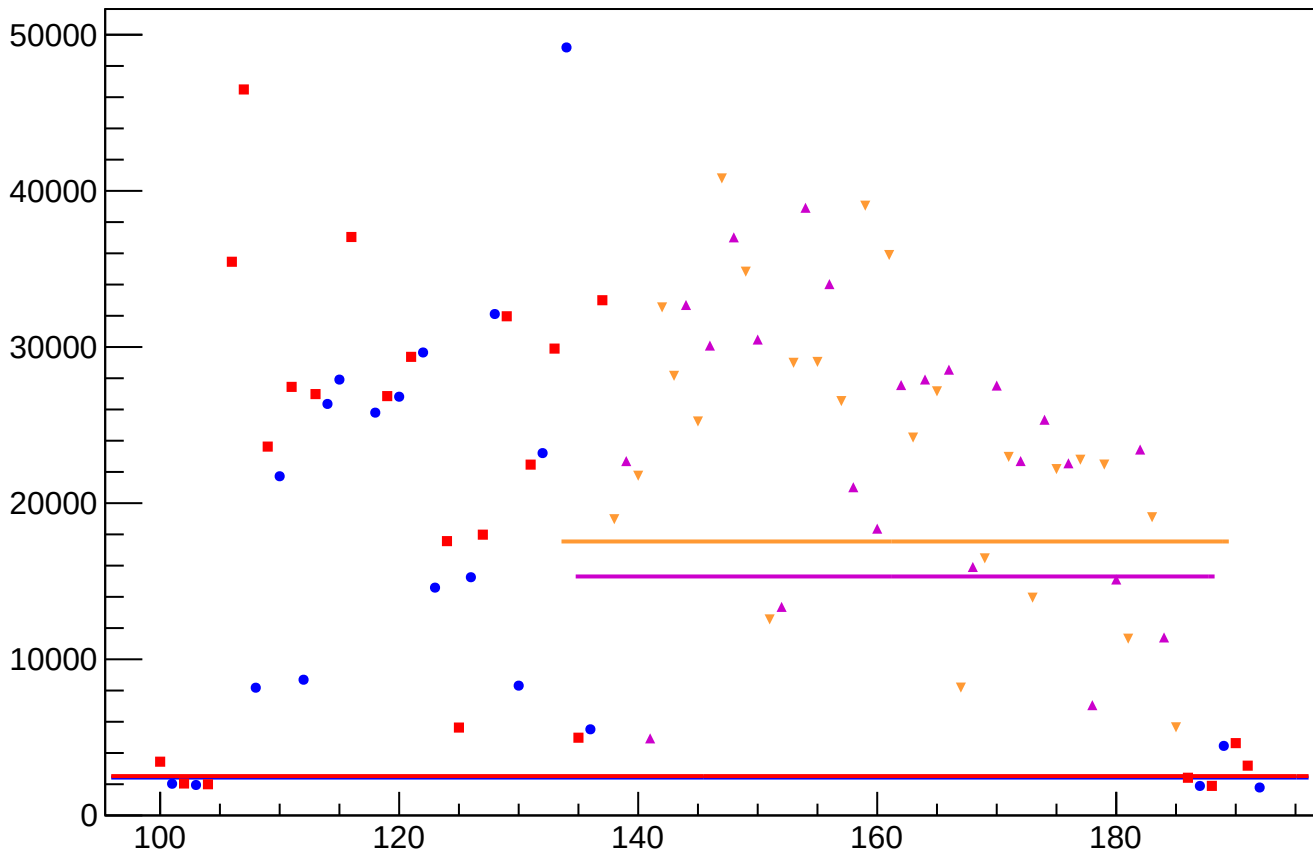
Right: 4.203 $\pm$ 1.044 χ^2/NDF : 1019.6/42

In: -12.629 $\pm$ 1.423 χ^2/NDF : 196.9/42

Out: 20.681 $\pm$ 1.403 χ^2/NDF : 644.7/47

All: 4.267 $\pm$ 0.999 χ^2/NDF : 1119.5/90

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2427.284+/-1.054 χ^2/NDF : 5756430.7/19

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

Right Out: 2520.608+/-1.034 χ^2/NDF : 8023608.0/22

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

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

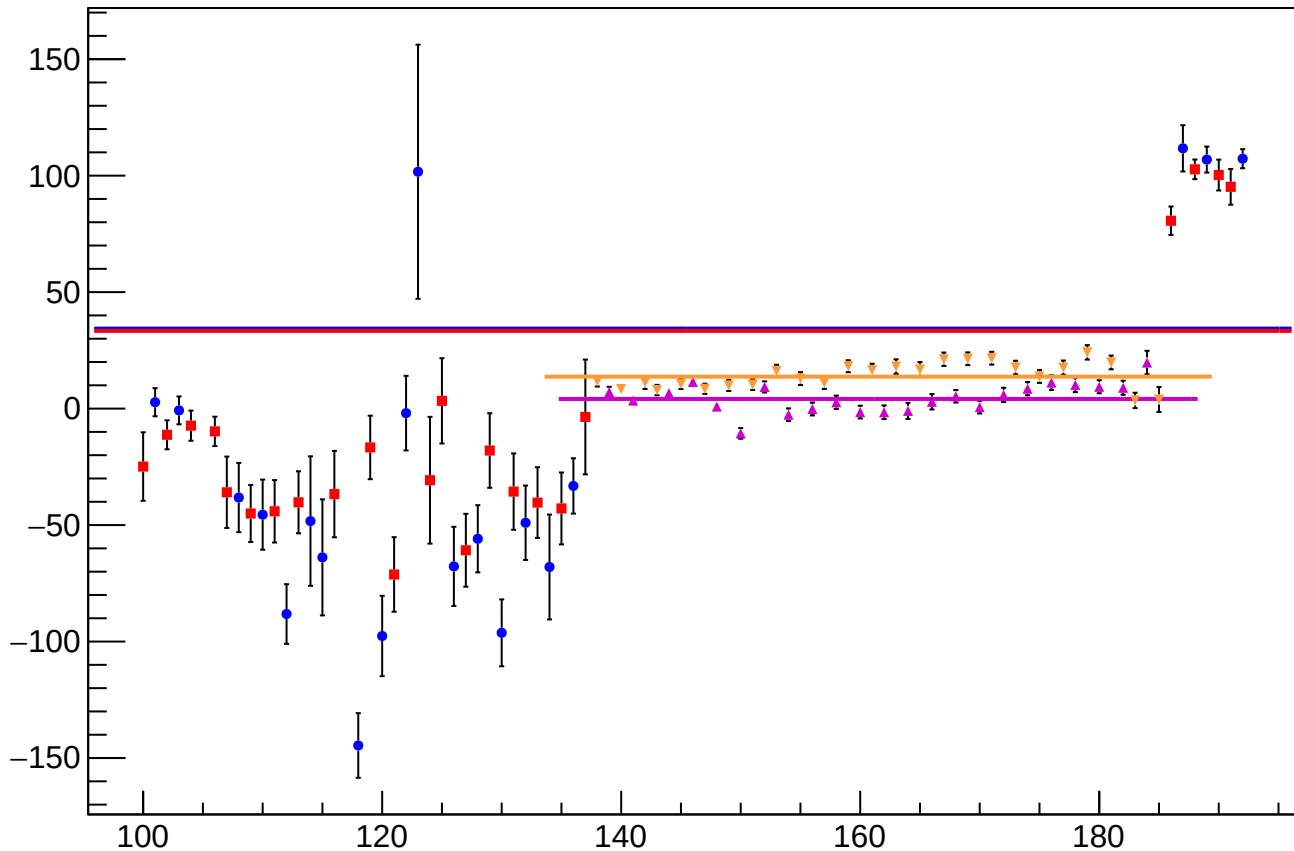
Right: 2474.844+/-0.738 χ^2/NDF : 13784035.1/42

In: 3564.449+/-1.006 χ^2/NDF : 26663552.7/42

Out: 3715.324+/-0.992 χ^2/NDF : 30724254.7/47

All: 3640.977+/-0.706 χ^2/NDF : 57399210.6/95

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 34.341 $\pm$ 2.161 χ^2 /NDF: 1246.1/19

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

Right Out: 33.350 $\pm$ 1.950 χ^2 /NDF: 969.5/22

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

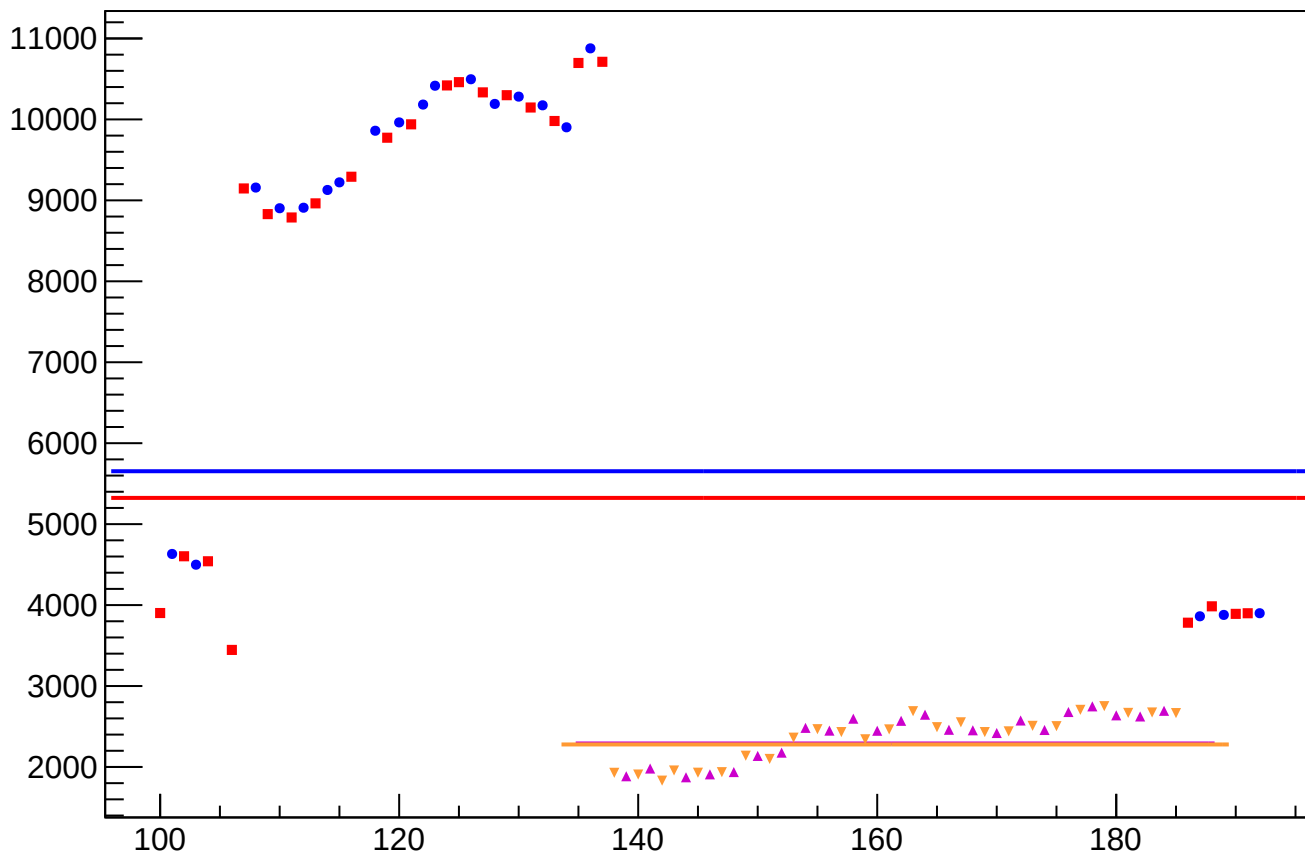
Right: 33.795 $\pm$ 1.448 χ^2 /NDF: 2215.7/42

In: 6.008 $\pm$ 0.537 χ^2 /NDF:1540.9/42

Out: 15.086 $\pm$ 0.516 χ^2 /NDF:1153.7/47

All: 10.729 $\pm$ 0.372 χ^2 /NDF: 2843.0/90

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 5653.632 $\pm$ 1.528 χ^2/NDF : 2842703.0/19

Left Out: 2278.115 $\pm$ 0.378 χ^2/NDF :607109.4/24

Right Out: 5324.070 $\pm$ 1.379 χ^2/NDF : 3112425.7/22

Left In: 2290.461 $\pm$ 0.392 χ^2/NDF :590272.1/22

Left: 2284.067 $\pm$ 0.272 χ^2/NDF : 1197894.4/47

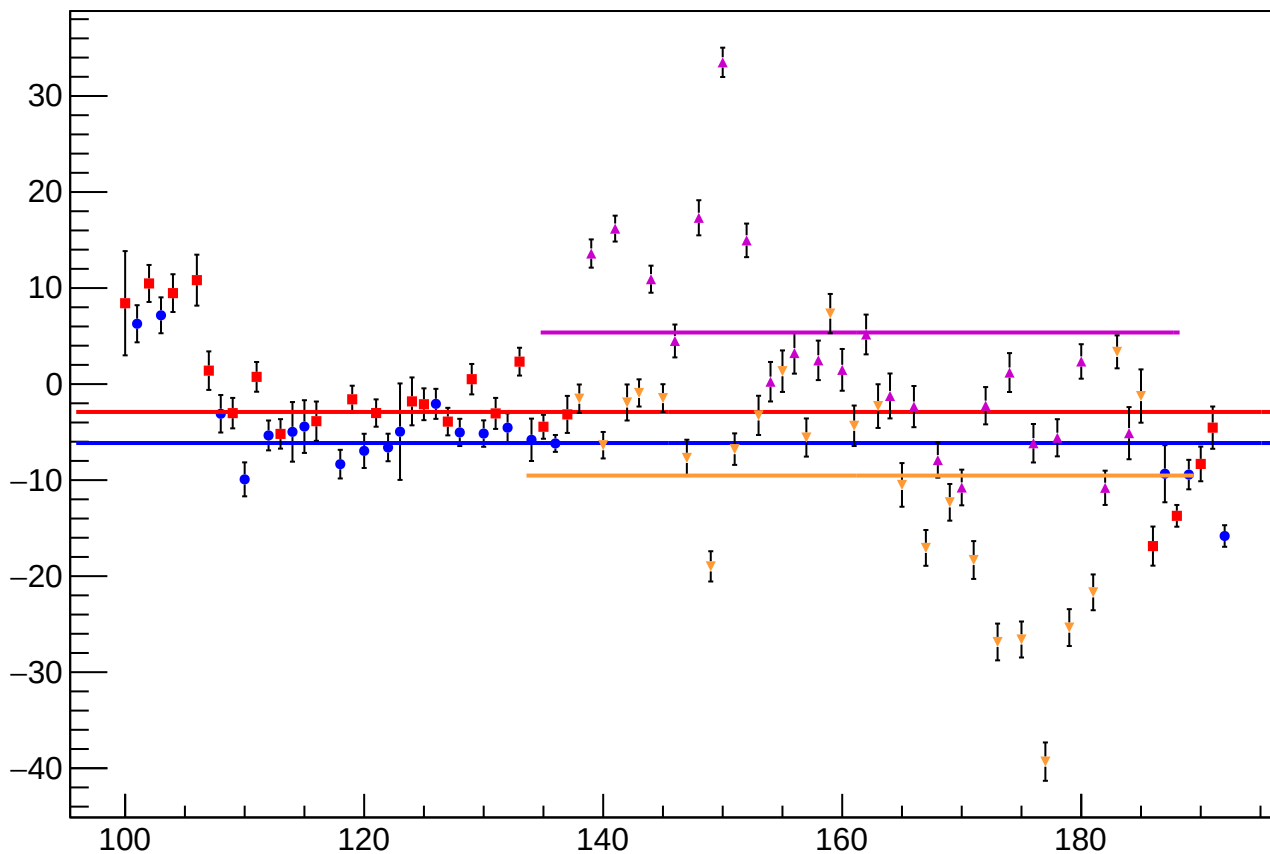
Right: 5471.985 $\pm$ 1.024 χ^2/NDF : 5980763.4/42

In: 2498.400 $\pm$ 0.380 χ^2/NDF :7976999.8/42

Out: 2491.490 $\pm$ 0.365 χ^2/NDF :8256690.6/47

All: 2494.806 $\pm$ 0.263 χ^2/NDF : 16233862.5/95

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -6.136 ± 0.358 χ^2/NDF : 191.4/19

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

Right Out: -2.902 ± 0.351 χ^2/NDF : 300.4/22

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

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

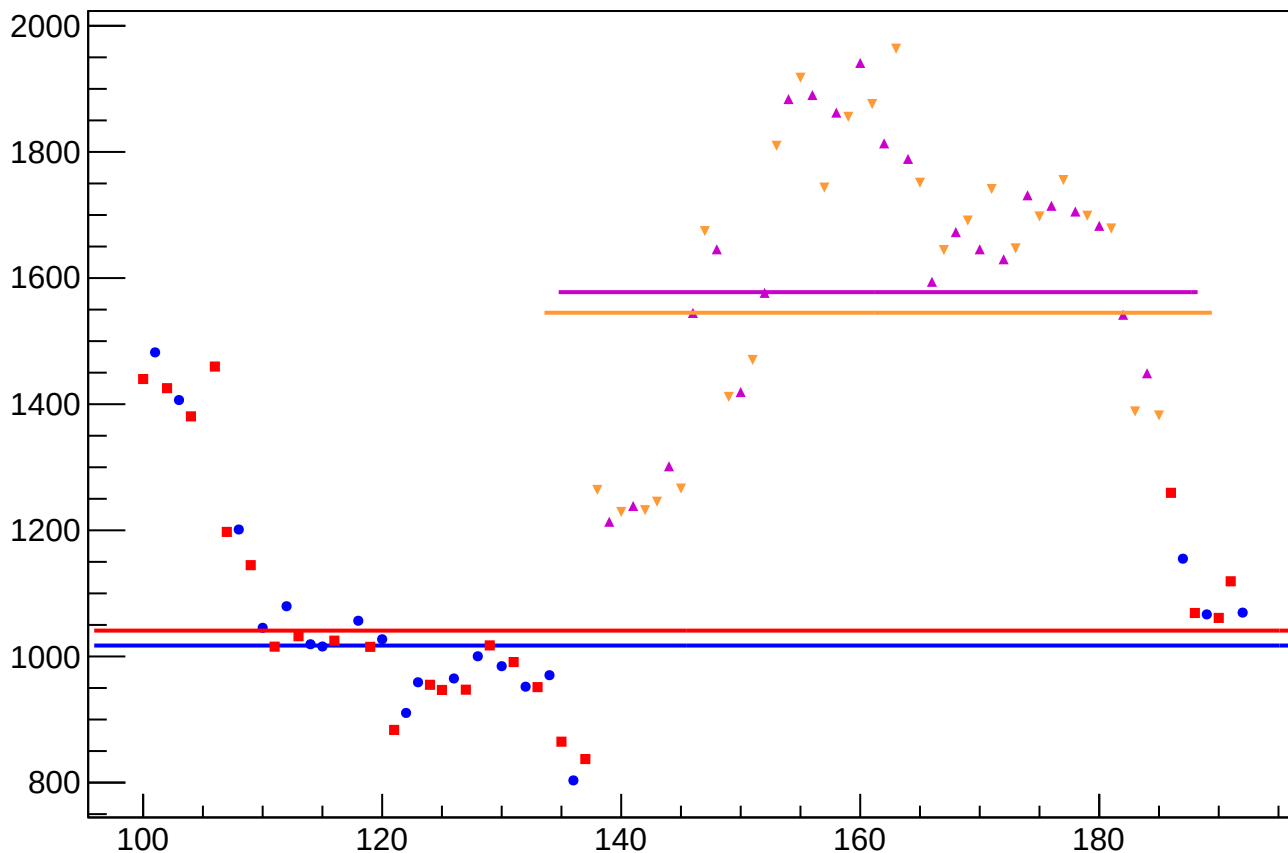
Right: -4.484 ± 0.251 χ^2/NDF : 533.4/42

In: -0.765 ± 0.262 χ^2/NDF : 1542.9/42

Out: -6.082 ± 0.253 χ^2/NDF : 1355.8/47

All: -3.514 ± 0.182 χ^2/NDF : 3112.4/90

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1017.297 $\pm$ 0.253 χ^2 /NDF: 374507.7/19

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

Right Out: 1041.001 $\pm$ 0.248 χ^2 /NDF: 362804.5/22

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

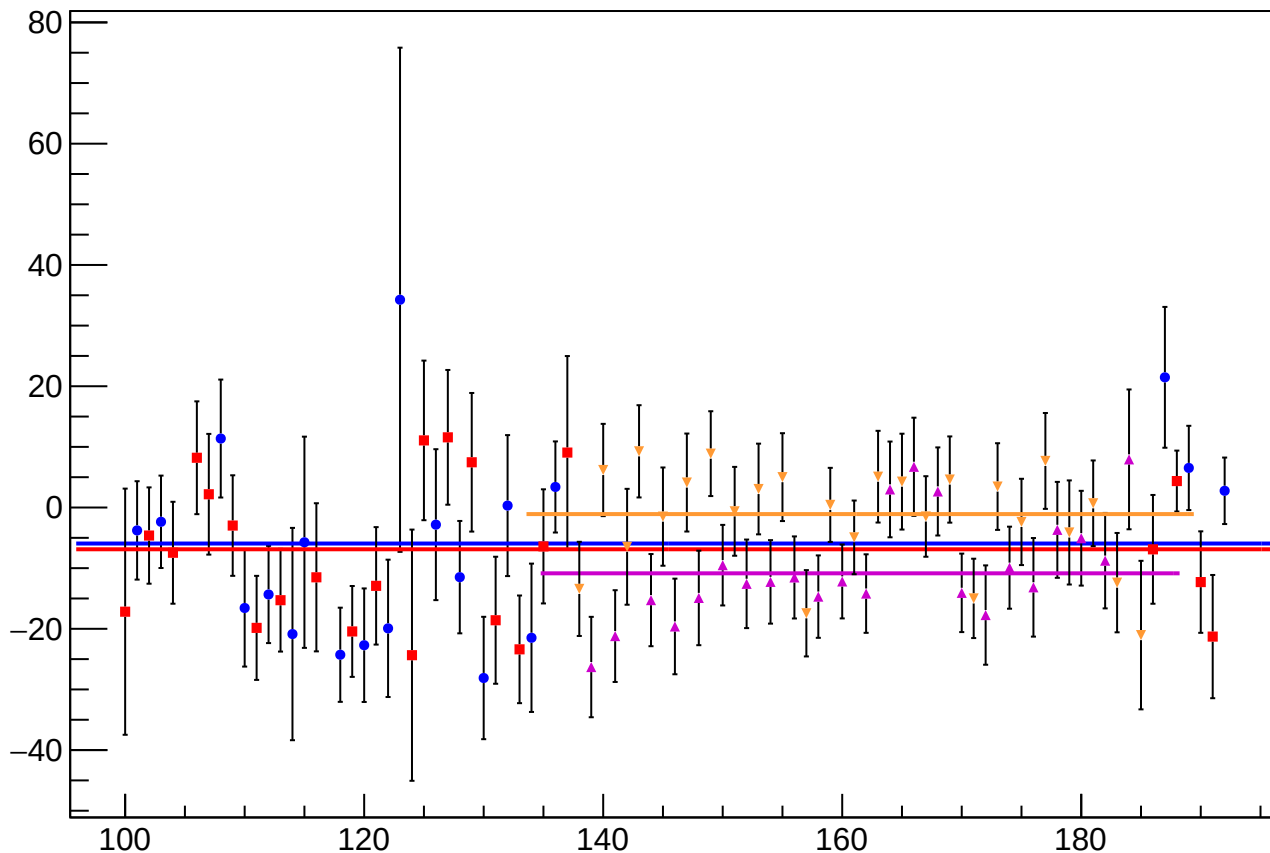
Right: 1029.403 $\pm$ 0.177 χ^2 /NDF: 741785.4/42

In: 1278.837 $\pm$ 0.185 χ^2 /NDF: 3284431.8/42

Out: 1283.043 $\pm$ 0.179 χ^2 /NDF: 3190584.6/47

All: 1281.012 $\pm$ 0.129 χ^2 /NDF: 6475283.8/90

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -5.938 ± 2.070 χ^2/NDF : 37.7/19

Left Out: -1.083 ± 1.487 χ^2/NDF : 27.5/24

Right Out: -6.887 ± 1.931 χ^2/NDF : 31.2/22

Left In: -10.851 ± 1.542 χ^2/NDF : 24.4/22

Left: -5.792 ± 1.070 χ^2/NDF : 72.7/47

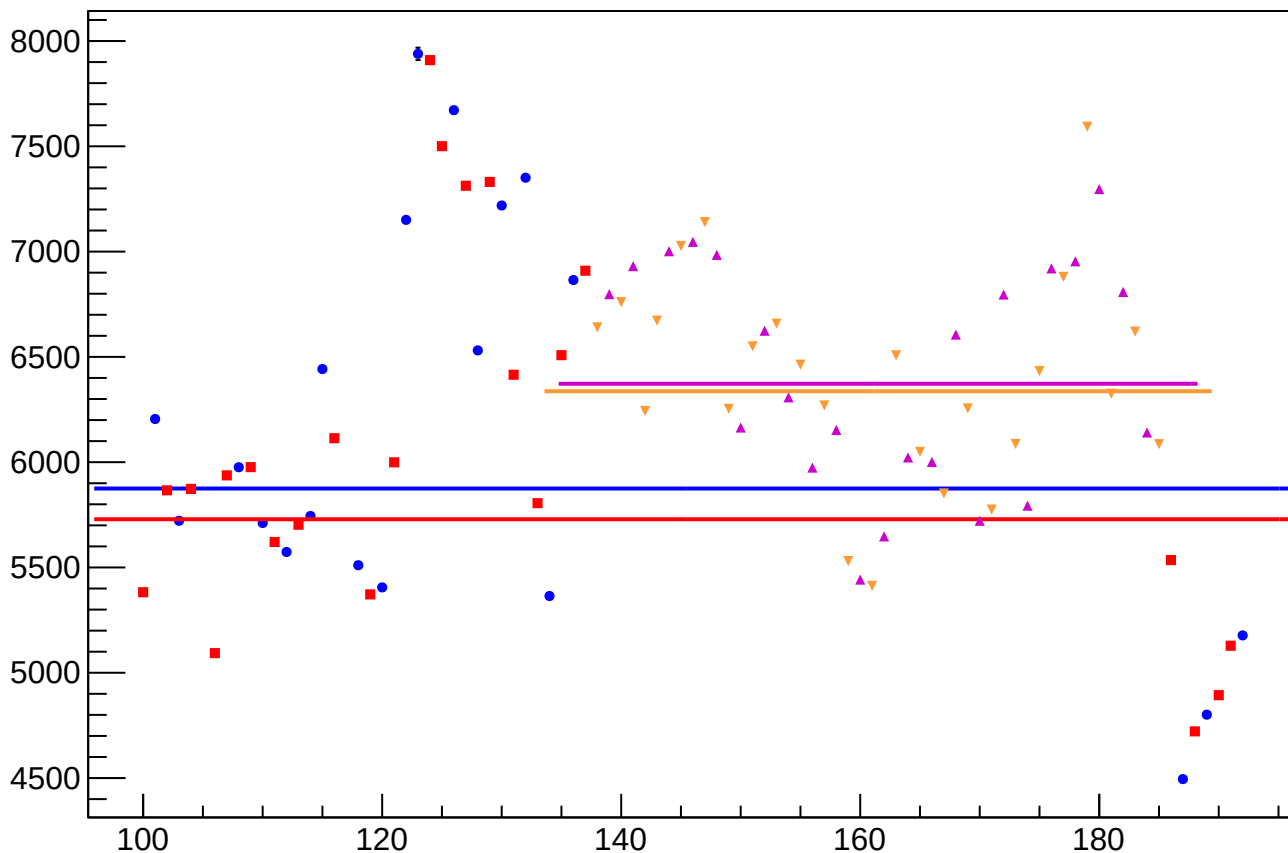
Right: -6.446 ± 1.412 χ^2/NDF : 69.0/42

In: -9.099 ± 1.236 χ^2/NDF : 65.7/42

Out: -3.244 ± 1.178 χ^2/NDF : 64.3/47

All: -6.030 ± 0.853 χ^2/NDF : 141.8/90

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5874.941 $\pm$ 1.464 χ^2/NDF : 315789.5/19

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

Right Out: 5729.032 $\pm$ 1.365 χ^2/NDF : 302276.7/22

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

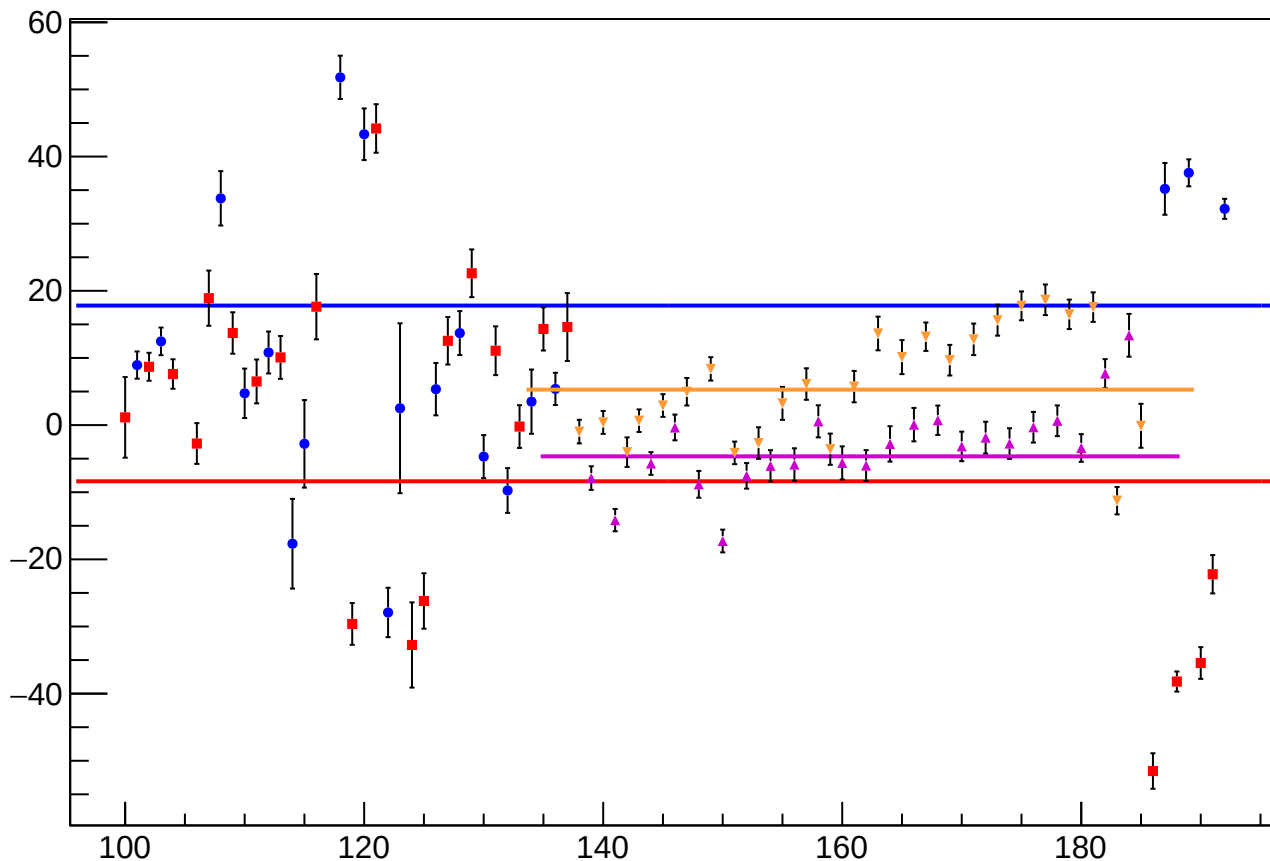
Right: 5796.901 $\pm$ 0.998 χ^2/NDF : 623379.8/42

In: 6194.915 $\pm$ 0.874 χ^2/NDF : 637317.0/42

Out: 6110.520 $\pm$ 0.833 χ^2/NDF : 649612.9/47

All: 6150.680 $\pm$ 0.603 χ^2/NDF : 1291813.6/90

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 17.802 ± 0.654 χ^2/NDF : 783.1/19

Left Out: 5.284 ± 0.421 χ^2/NDF : 366.1/24

Right Out: -8.369 ± 0.621 χ^2/NDF : 1630.4/22

Left In: -4.657 ± 0.443 χ^2/NDF : 196.5/22

Left: 0.574 ± 0.305 χ^2/NDF : 827.2/47

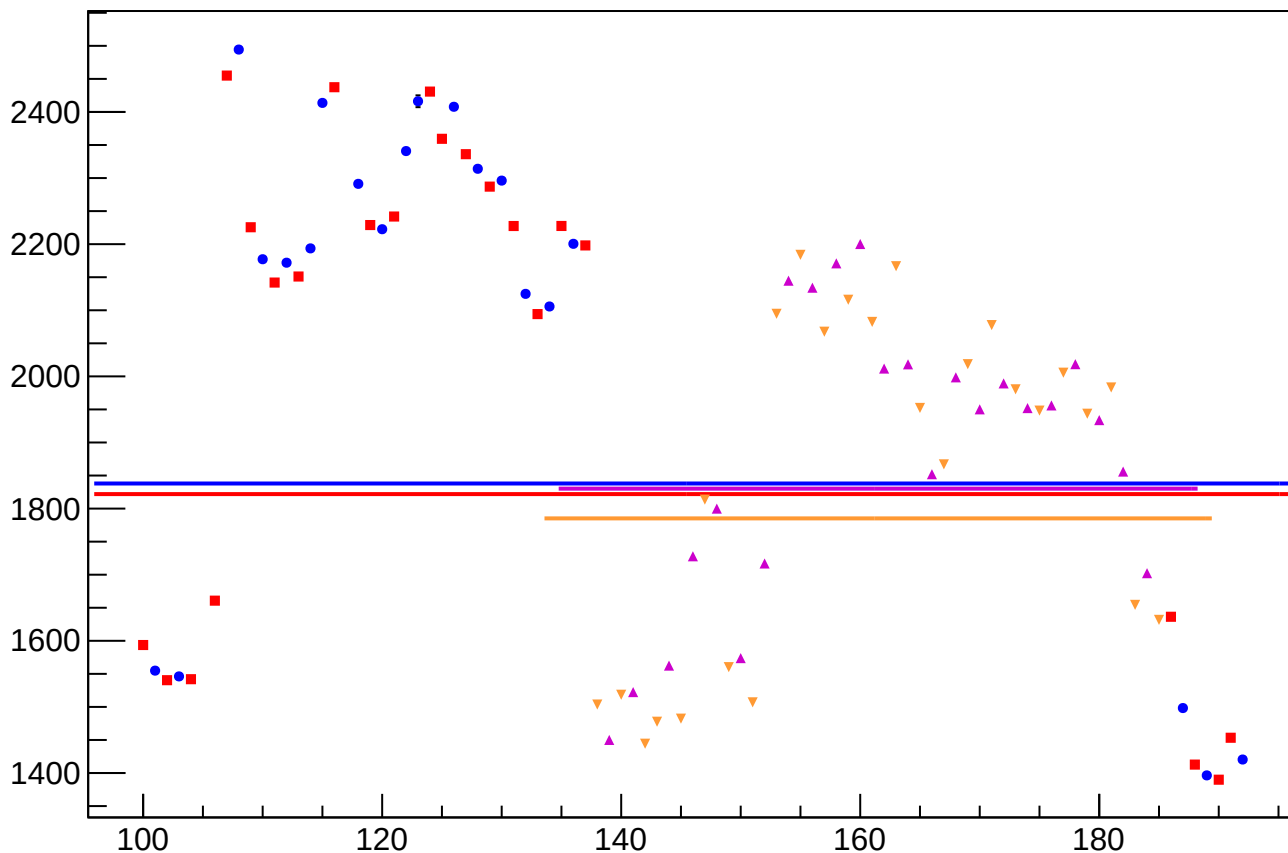
Right: 4.023 ± 0.450 χ^2/NDF : 3255.4/42

In: 2.407 ± 0.367 χ^2/NDF : 1786.8/42

Out: 0.986 ± 0.348 χ^2/NDF : 2328.0/47

All: 1.659 ± 0.253 χ^2/NDF : 4122.7/90

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1837.960 $\pm$ 0.463 χ^2/NDF : 755072.5/19

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

Right Out: 1821.929 $\pm$ 0.439 χ^2/NDF : 763543.2/22

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

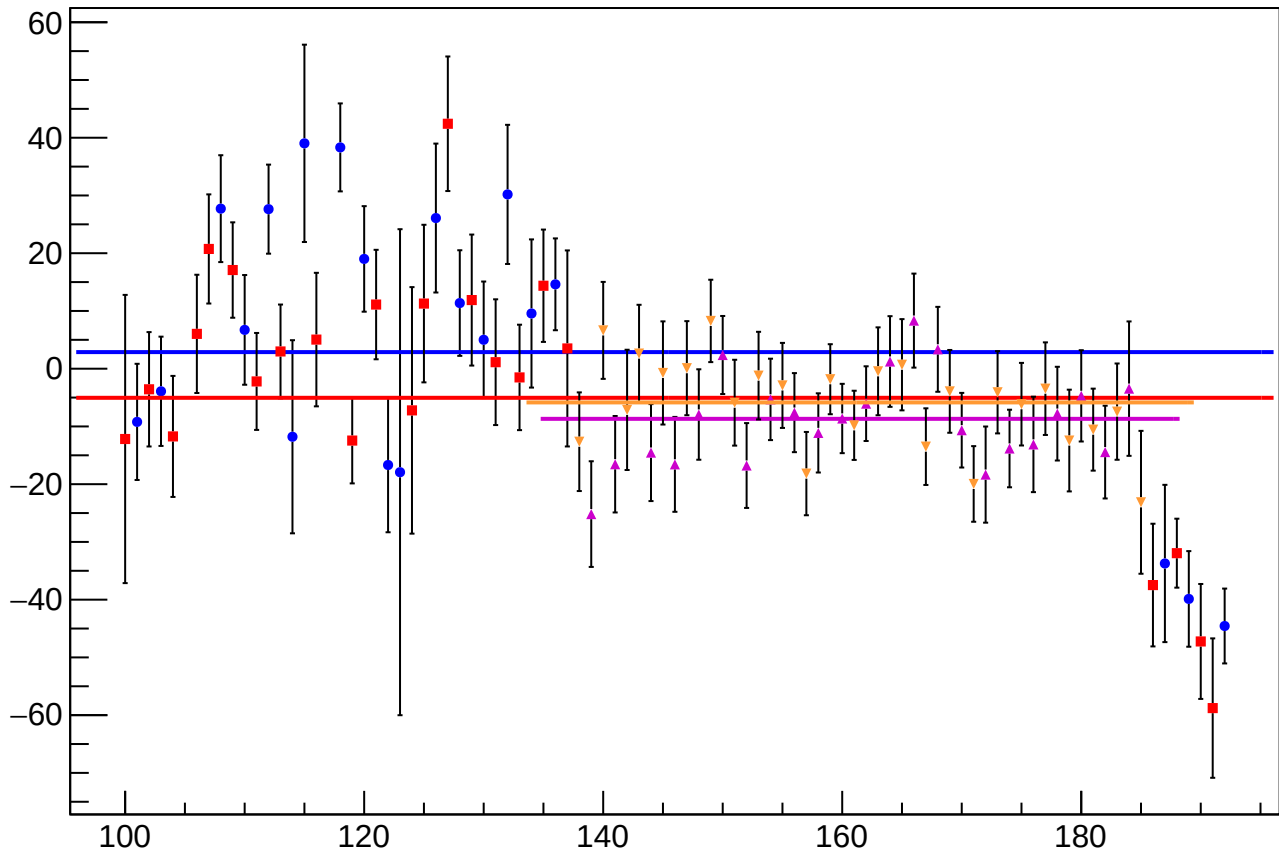
Right: 1829.520 $\pm$ 0.318 χ^2/NDF : 1519247.4/42

In: 1832.613 $\pm$ 0.260 χ^2/NDF : 1263659.1/42

Out: 1796.748 $\pm$ 0.246 χ^2/NDF : 1518975.8/47

All: 1813.737 $\pm$ 0.179 χ^2/NDF : 2792684.6/90

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.874 ± 2.208 χ^2/NDF : 151.9/19

Left Out: -5.840 ± 1.518 χ^2/NDF : 23.3/24

Right Out: -5.040 ± 2.070 χ^2/NDF : 114.4/22

Left In: -8.683 ± 1.571 χ^2/NDF : 21.9/22

Left: -7.214 ± 1.092 χ^2/NDF : 47.0/47

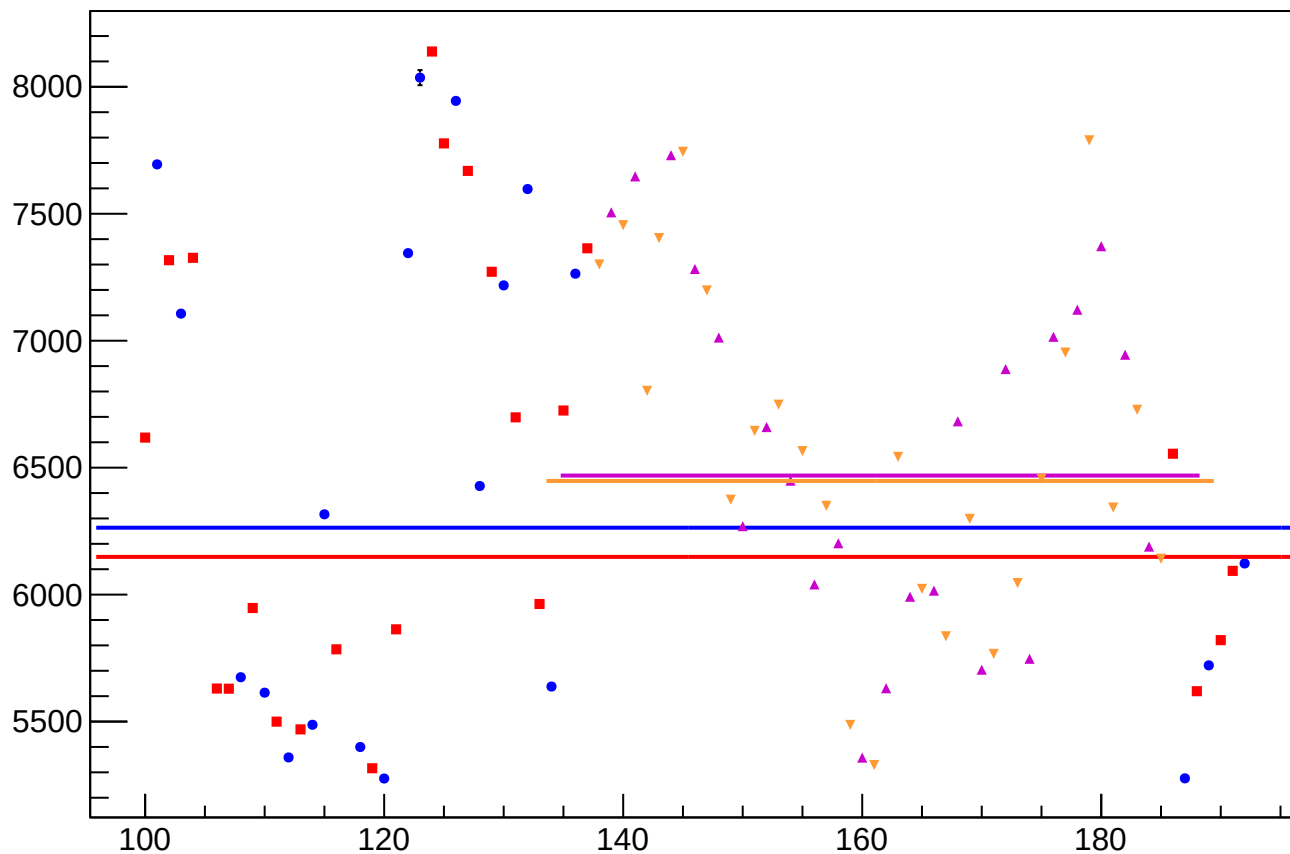
Right: -1.339 ± 1.510 χ^2/NDF : 273.2/42

In: -4.800 ± 1.280 χ^2/NDF : 192.0/42

Out: -5.560 ± 1.224 χ^2/NDF : 137.9/47

All: -5.197 ± 0.885 χ^2/NDF : 330.1/90

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6263.546 ± 1.561 $\chi^2/\text{NDF}: 309006.2/19$

Left Out: 6447.712 ± 1.074 $\chi^2/\text{NDF}: 371671.1/24$

Right Out: 6148.588 ± 1.464 $\chi^2/\text{NDF}: 264612.7/22$

Left In: 6468.902 ± 1.111 $\chi^2/\text{NDF}: 383325.4/22$

Left: 6457.948 ± 0.772 $\chi^2/\text{NDF}: 755184.7/47$

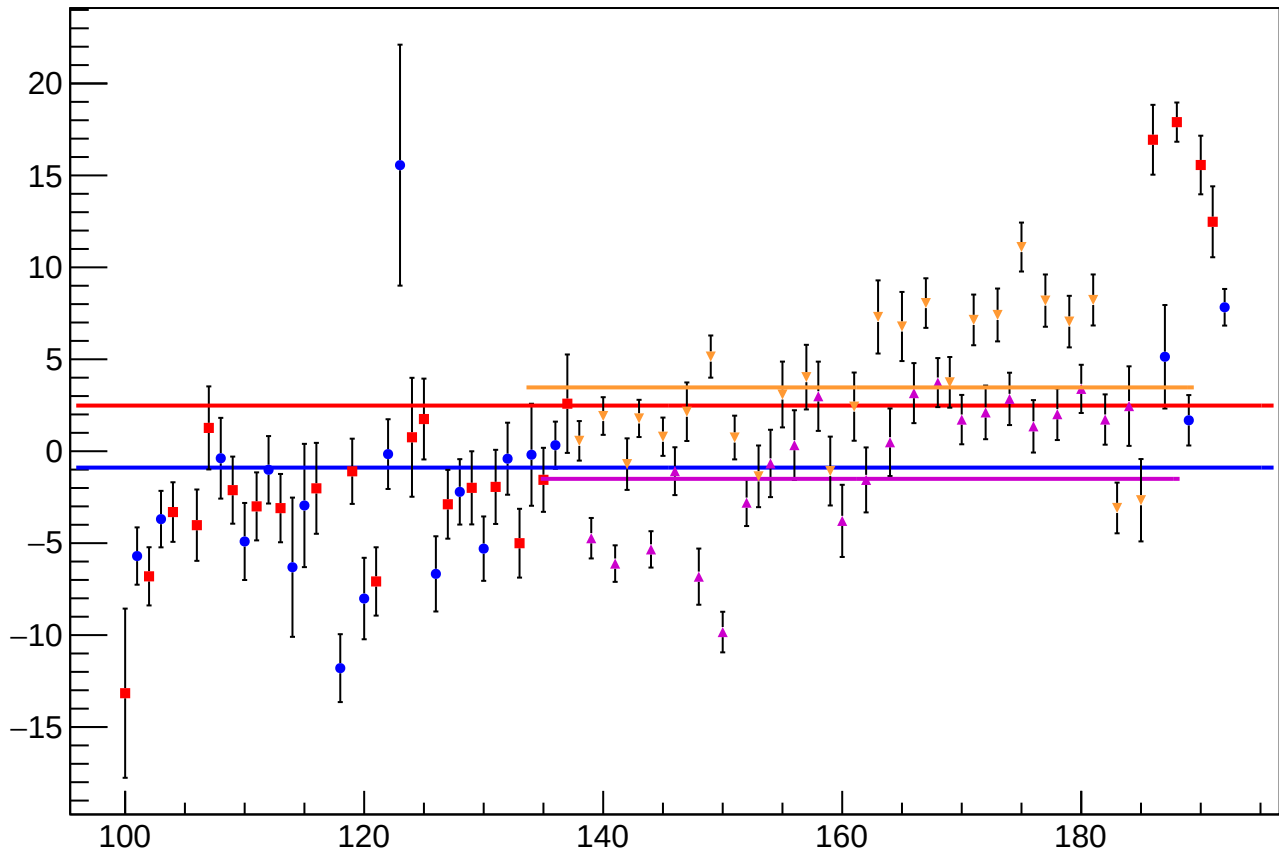
Right: 6202.356 ± 1.068 $\chi^2/\text{NDF}: 576504.6/42$

In: 6399.908 ± 0.905 $\chi^2/\text{NDF}: 703819.3/42$

Out: 6343.063 ± 0.866 $\chi^2/\text{NDF}: 663442.0/47$

All: 6370.224 ± 0.626 $\chi^2/\text{NDF}: 1369321.7/90$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.890 $\pm$ 0.406 χ^2/NDF : 171.3/19

Left Out: 3.470 $\pm$ 0.276 χ^2/NDF : 176.0/24

Right Out: 2.483 $\pm$ 0.389 χ^2/NDF : 529.2/22

Left In: -1.502 $\pm$ 0.291 χ^2/NDF : 202.7/22

Left: 1.109 $\pm$ 0.200 χ^2/NDF : 532.4/47

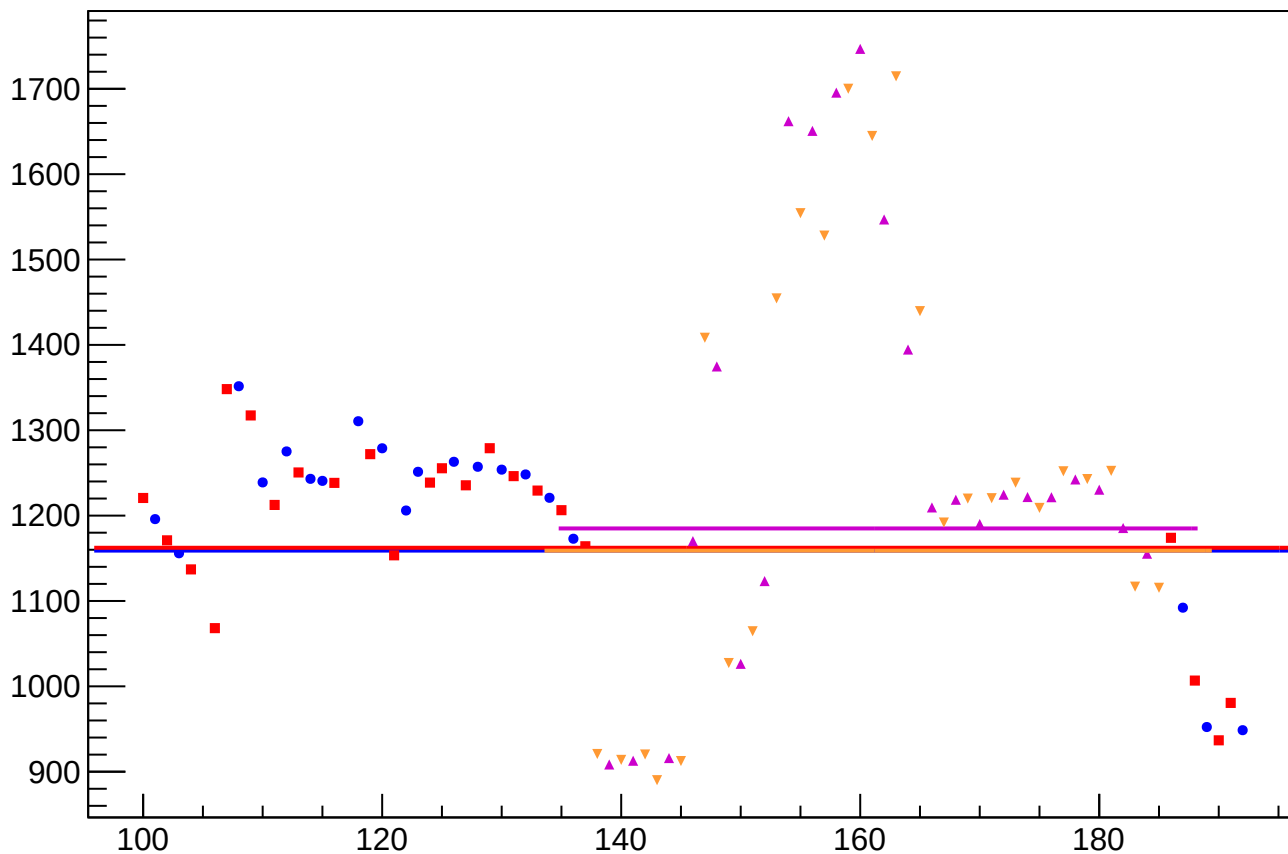
Right: 0.867 $\pm$ 0.281 χ^2/NDF : 736.5/42

In: -1.295 $\pm$ 0.236 χ^2/NDF : 375.5/42

Out: 3.139 $\pm$ 0.225 χ^2/NDF : 709.4/47

All: 1.028 $\pm$ 0.163 χ^2/NDF : 1269.4/90

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1159.029 $\pm$ 0.287 χ^2 /NDF: 208828.2/19

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

Right Out: 1162.326 $\pm$ 0.275 χ^2 /NDF: 171528.2/22

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

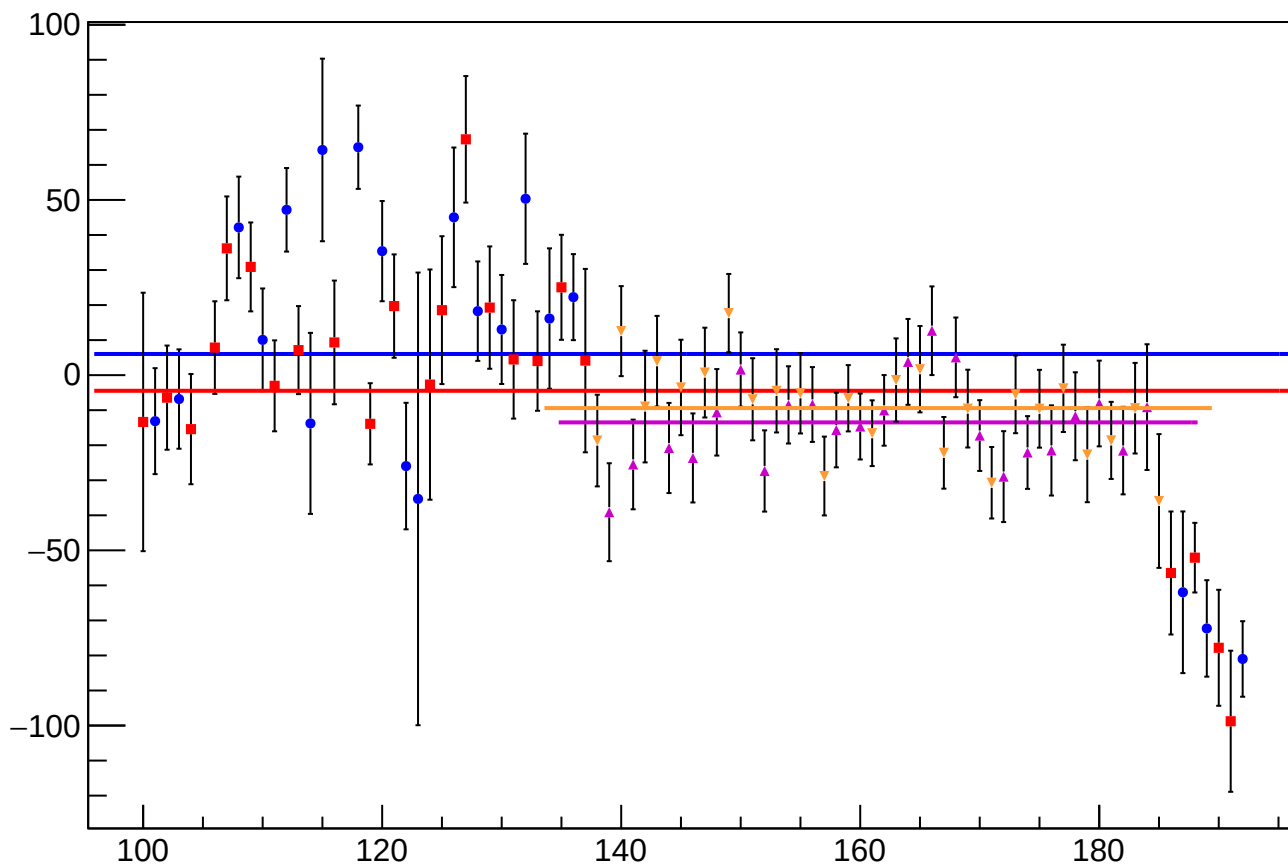
Right: 1160.746 $\pm$ 0.199 χ^2 /NDF: 380425.2/42

In: 1176.172 $\pm$ 0.167 χ^2 /NDF: 1404660.3/42

Out: 1160.045 $\pm$ 0.159 χ^2 /NDF: 1582055.1/47

All: 1167.726 $\pm$ 0.115 χ^2 /NDF: 2991595.0/90

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 6.040 ± 3.462 $\chi^2/\text{NDF}: 177.4/19$

Left Out: -9.398 ± 2.358 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -4.462 ± 3.215 $\chi^2/\text{NDF}: 118.4/22$

Left In: -13.485 ± 2.443 $\chi^2/\text{NDF}: 21.6/22$

Left: -11.369 ± 1.697 $\chi^2/\text{NDF}: 49.3/47$

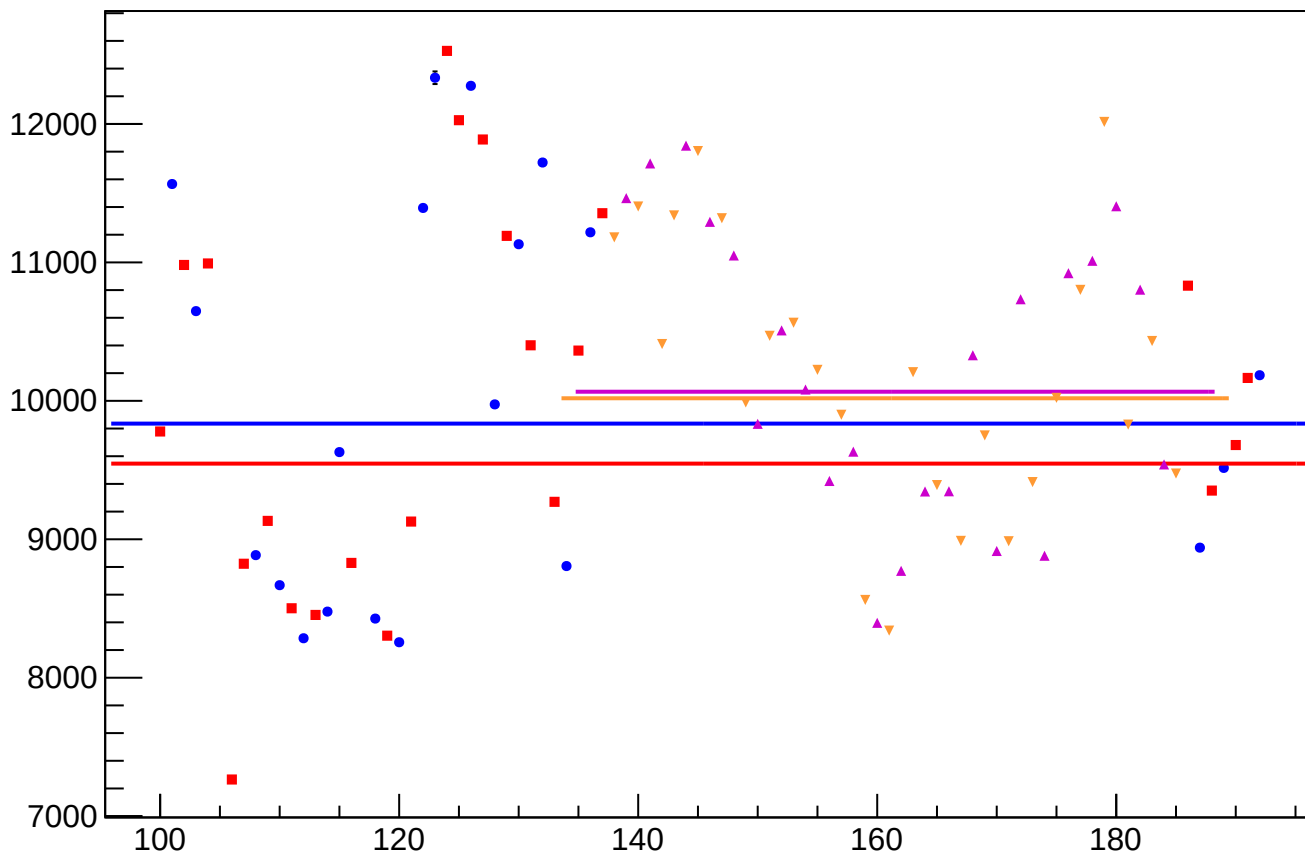
Right: 0.402 ± 2.356 $\chi^2/\text{NDF}: 300.6/42$

In: -6.995 ± 1.996 $\chi^2/\text{NDF}: 220.2/42$

Out: -7.671 ± 1.902 $\chi^2/\text{NDF}: 146.2/47$

All: -7.349 ± 1.377 $\chi^2/\text{NDF}: 366.4/90$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9835.598 ± 2.448 $\chi^2/\text{NDF}: 265312.6/19$

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

Right Out: 9546.575 ± 2.274 $\chi^2/\text{NDF}: 288555.4/22$

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

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

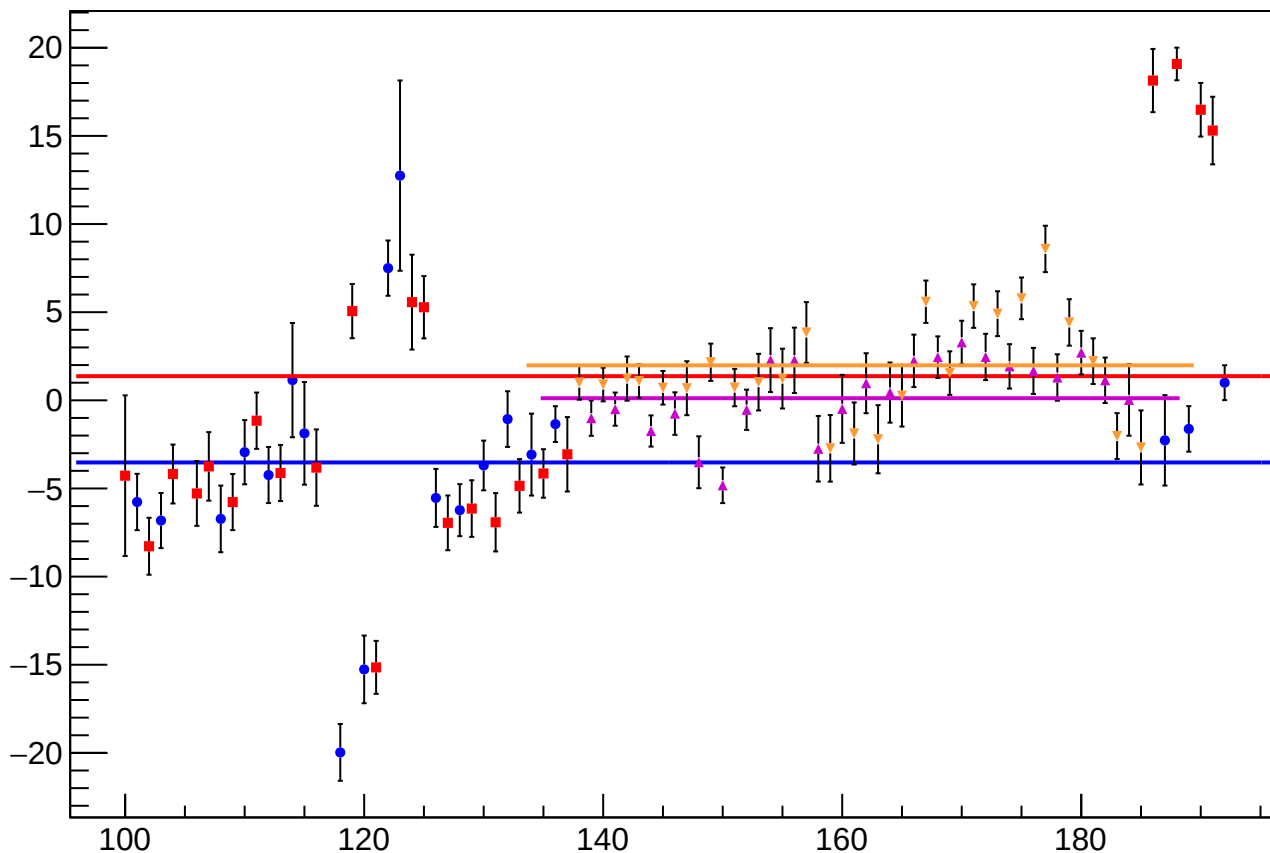
Right: 9680.427 ± 1.666 $\chi^2/\text{NDF}: 561352.1/42$

In: 9989.354 ± 1.411 $\chi^2/\text{NDF}: 629090.7/42$

Out: 9853.451 ± 1.345 $\chi^2/\text{NDF}: 661110.4/47$

All: 9918.119 ± 0.974 $\chi^2/\text{NDF}: 1295061.3/90$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -3.524 ± 0.359 $\chi^2/\text{NDF}: 247.4/19$

Left Out: 1.985 ± 0.255 $\chi^2/\text{NDF}: 101.2/24$

Right Out: 1.370 ± 0.341 $\chi^2/\text{NDF}: 961.8/22$

Left In: 0.120 ± 0.269 $\chi^2/\text{NDF}: 67.6/22$

Left: 1.102 ± 0.185 $\chi^2/\text{NDF}: 194.2/47$

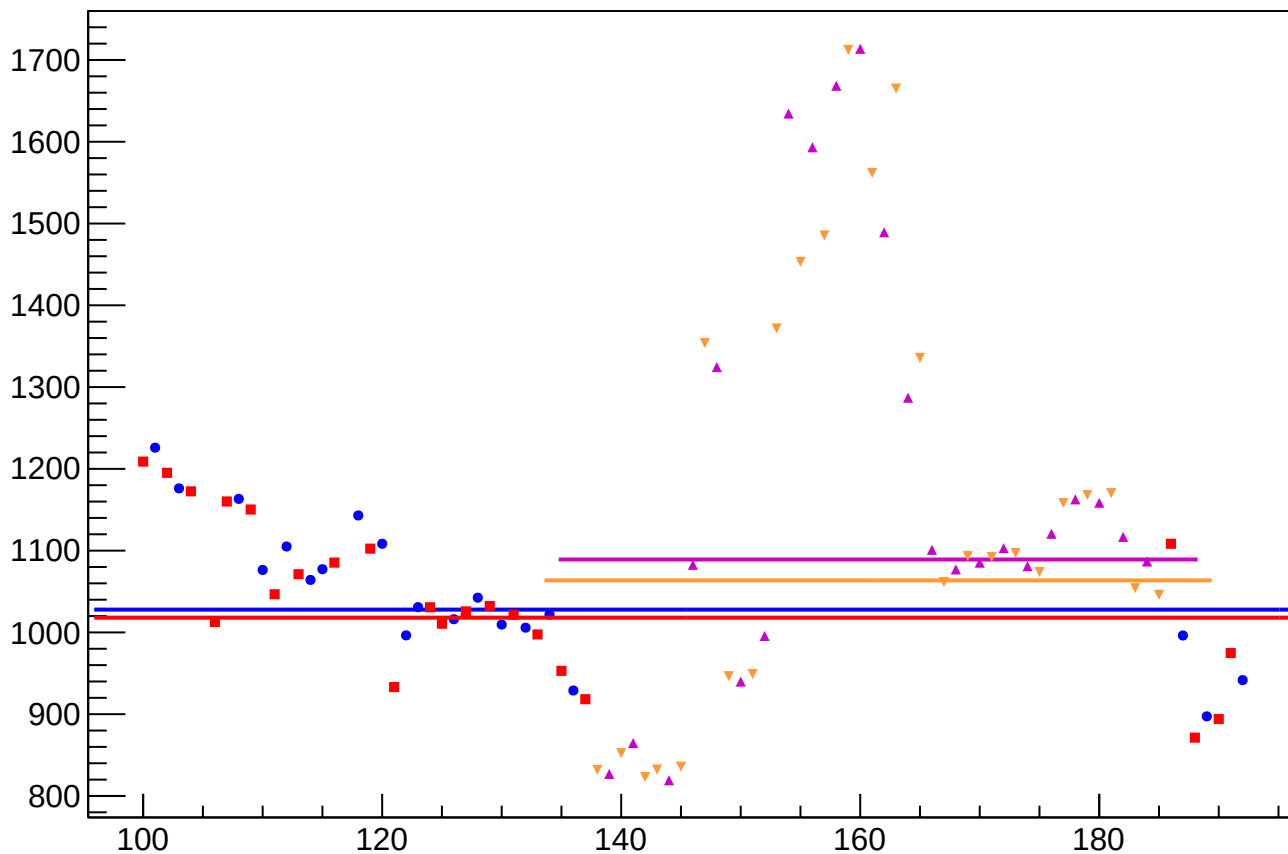
Right: -0.949 ± 0.247 $\chi^2/\text{NDF}: 1306.9/42$

In: -1.188 ± 0.215 $\chi^2/\text{NDF}: 381.0/42$

Out: 1.764 ± 0.204 $\chi^2/\text{NDF}: 1065.0/47$

All: 0.366 ± 0.148 $\chi^2/\text{NDF}: 1545.2/90$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1027.881 $\pm$ 0.254 χ^2 /NDF: 136460.7/19

Left Out: 1063.600 $\pm$ 0.180 χ^2 /NDF: 1617376.3/24

Right Out: 1018.032 $\pm$ 0.241 χ^2 /NDF: 165722.7/22

Left In: 1089.154 $\pm$ 0.190 χ^2 /NDF: 1430478.5/22

Left: 1075.700 $\pm$ 0.131 χ^2 /NDF: 3057378.7/47

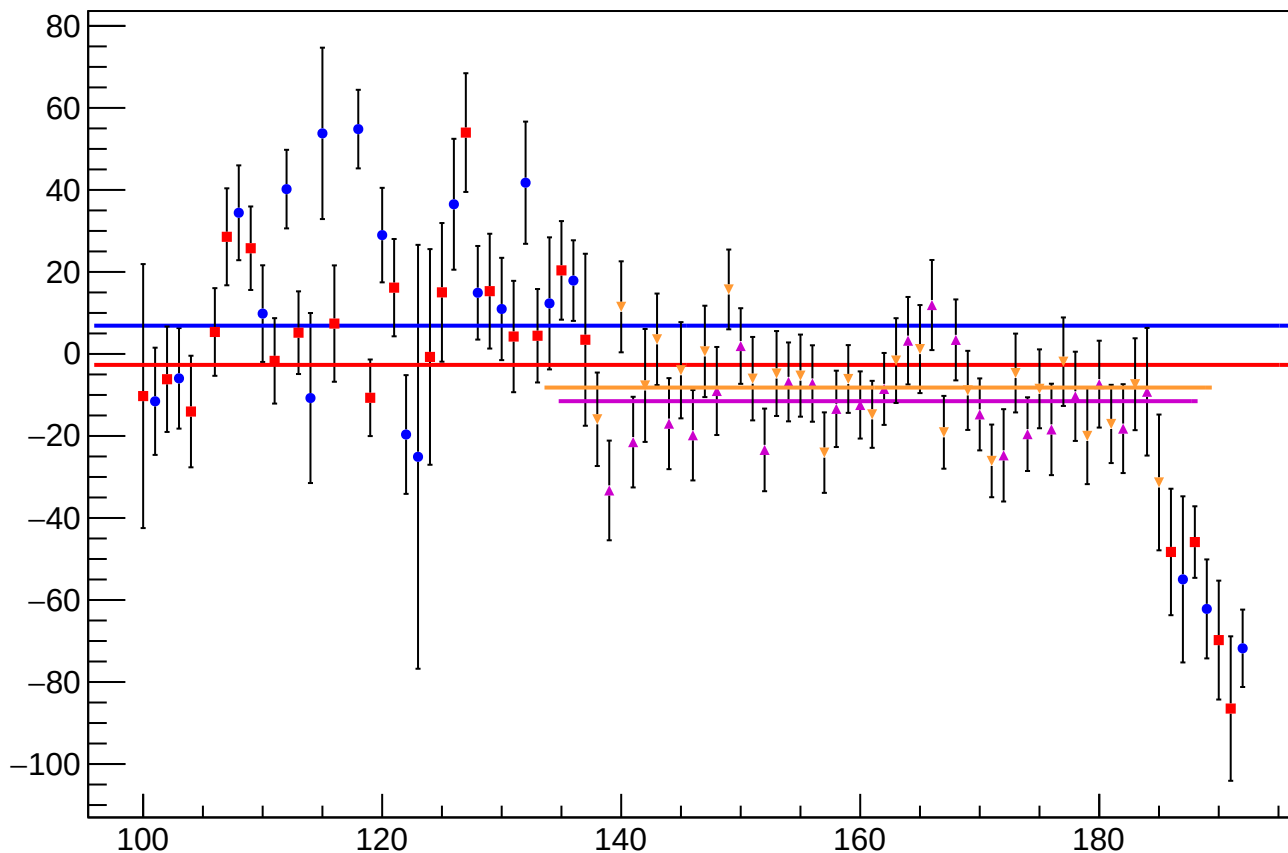
Right: 1022.699 $\pm$ 0.175 χ^2 /NDF: 302974.9/42

In: 1067.163 $\pm$ 0.152 χ^2 /NDF: 1604266.8/42

Out: 1047.263 $\pm$ 0.144 χ^2 /NDF: 1806031.3/47

All: 1056.688 $\pm$ 0.105 χ^2 /NDF: 3419305.6/90

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 6.897 ± 2.845 χ^2/NDF : 181.6/19

Left Out: -8.195 ± 2.049 χ^2/NDF : 26.2/24

Right Out: -2.668 ± 2.644 χ^2/NDF : 120.4/22

Left In: -11.515 ± 2.122 χ^2/NDF : 21.0/22

Left: -9.796 ± 1.474 χ^2/NDF : 48.5/47

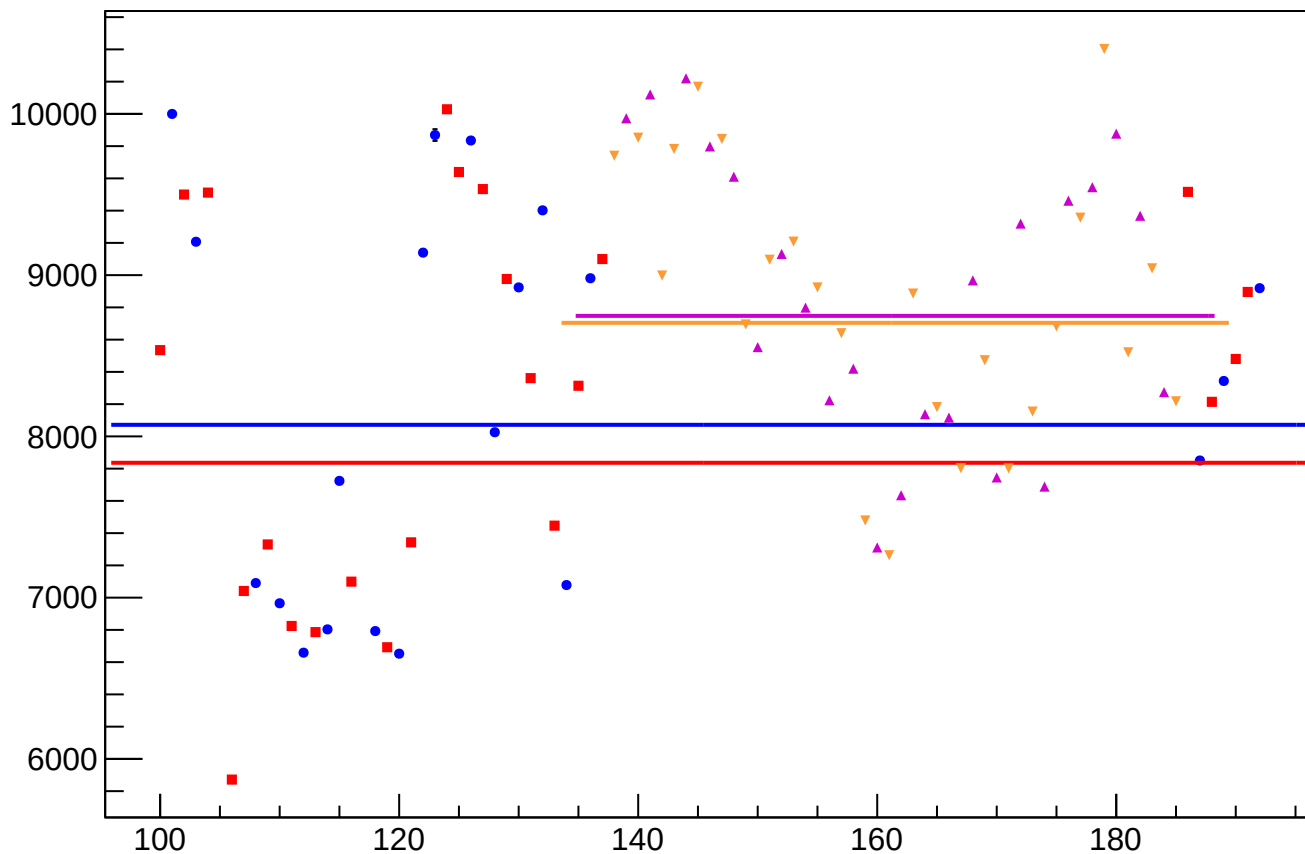
Right: 1.765 ± 1.937 χ^2/NDF : 308.0/42

In: -4.933 ± 1.701 χ^2/NDF : 229.5/42

Out: -6.122 ± 1.619 χ^2/NDF : 149.2/47

All: -5.556 ± 1.173 χ^2/NDF : 379.0/90

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8071.742 $\pm$ 2.012 χ^2/NDF : 315330.5/19

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

Right Out: 7836.379 $\pm$ 1.870 χ^2/NDF : 357542.0/22

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

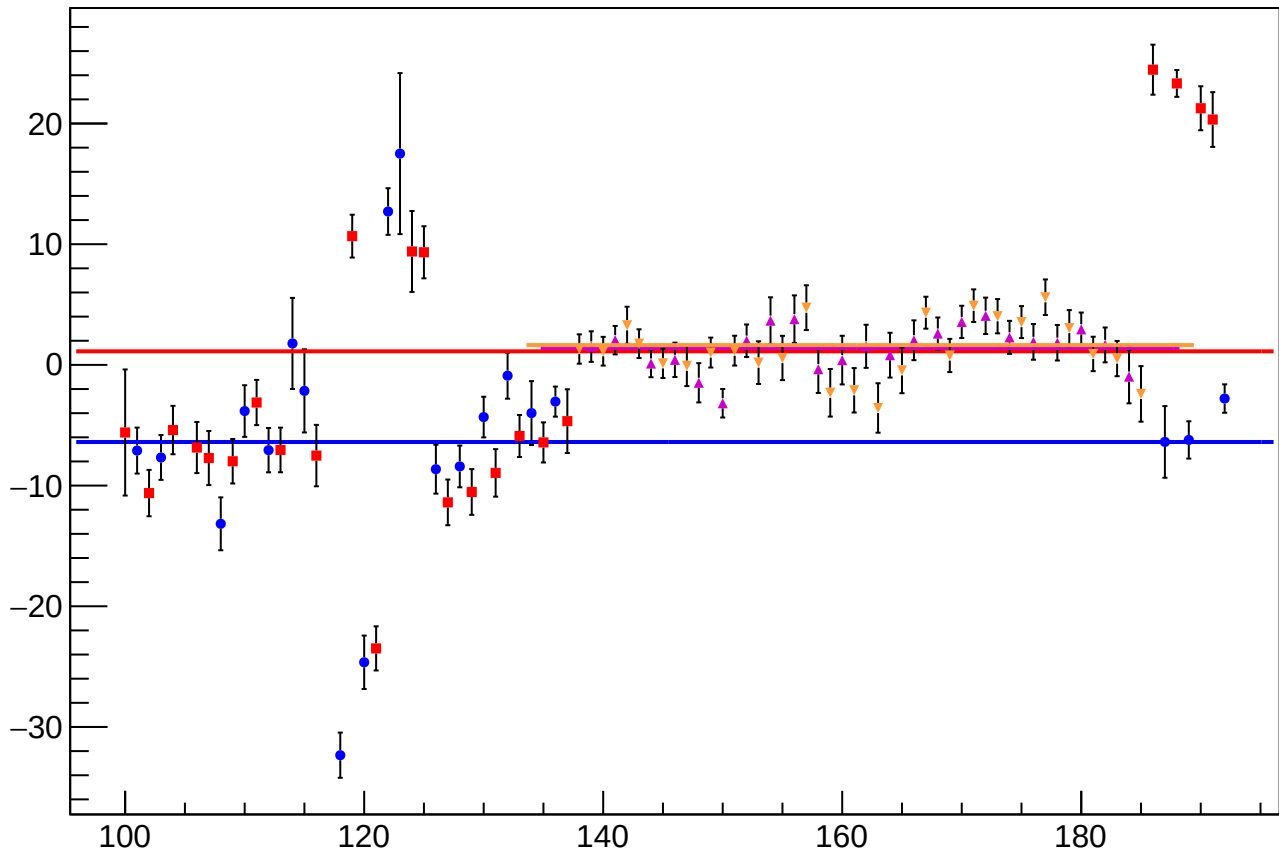
Right: 7945.458 $\pm$ 1.370 χ^2/NDF : 680215.9/42

In: 8505.859 $\pm$ 1.203 χ^2/NDF :734909.7/42

Out: 8378.683 $\pm$ 1.145 χ^2/NDF :824518.8/47

All: 8439.144 $\pm$ 0.829 χ^2/NDF : 1565292.1/90

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.389 $\pm$ 0.428 χ^2/NDF : 418.3/19

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

Right Out: 1.124 $\pm$ 0.404 χ^2/NDF : 1241.3/22

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

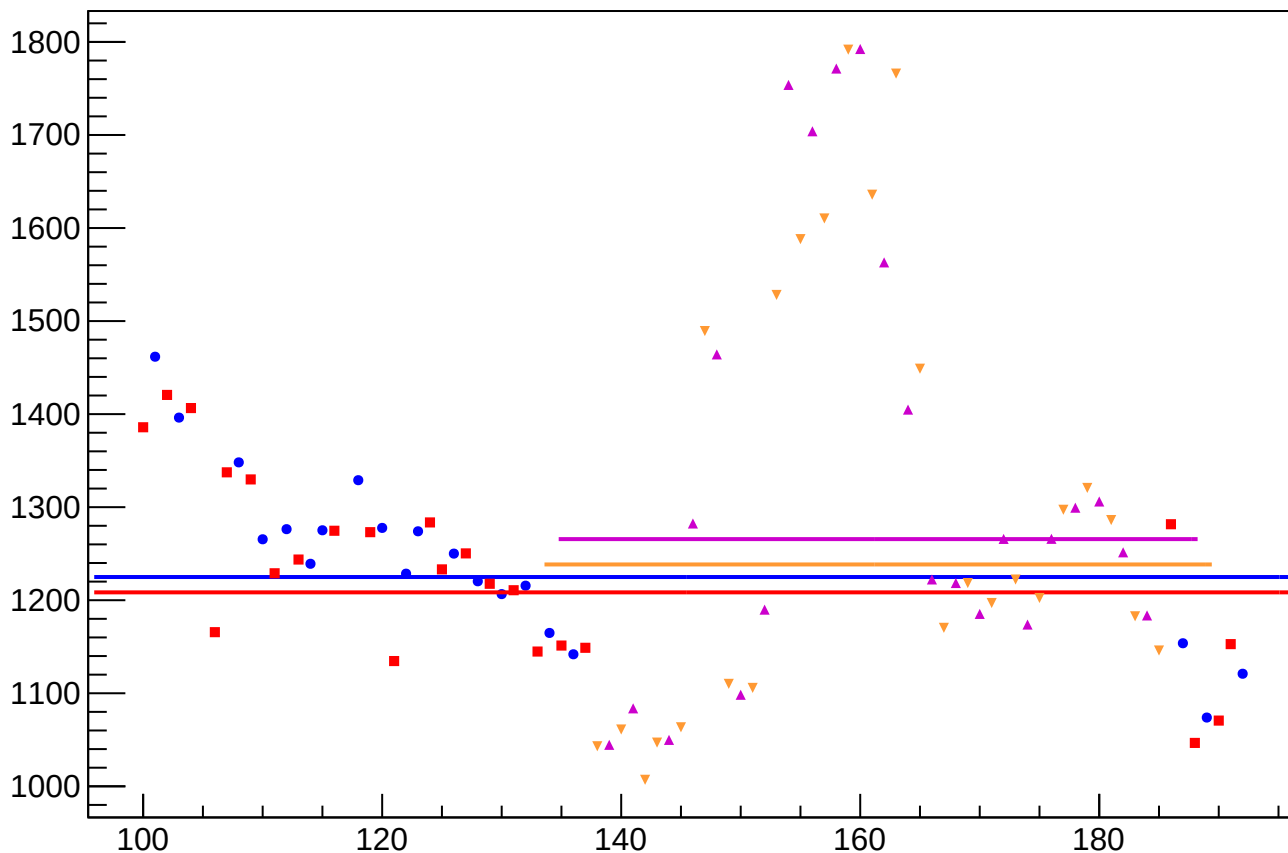
Right: -2.422 $\pm$ 0.294 χ^2/NDF : 1822.6/42

In: -1.269 $\pm$ 0.250 χ^2/NDF : 670.7/42

Out: 1.461 $\pm$ 0.238 χ^2/NDF : 1293.7/47

All: 0.168 $\pm$ 0.172 χ^2/NDF : 2026.9/90

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1224.933 $\pm$ 0.302 χ^2/NDF : 110746.5/19

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

Right Out: 1208.443 $\pm$ 0.286 χ^2/NDF : 136651.4/22

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

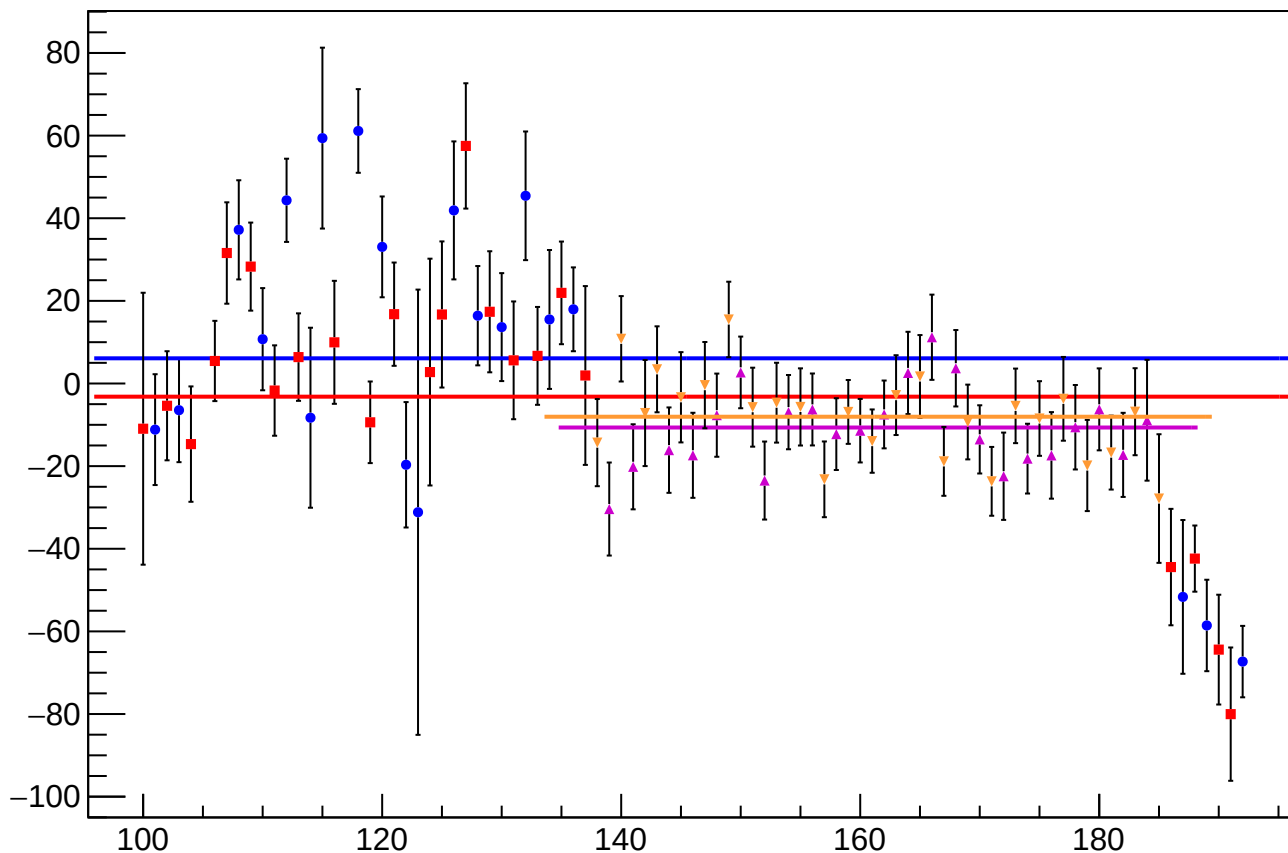
Right: 1216.225 $\pm$ 0.208 χ^2/NDF : 248968.1/42

In: 1251.701 $\pm$ 0.177 χ^2/NDF : 967829.0/42

Out: 1228.080 $\pm$ 0.168 χ^2/NDF : 1109031.2/47

All: 1239.267 $\pm$ 0.122 χ^2/NDF : 2086223.8/90

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 6.096 ± 2.902 $\chi^2/\text{NDF}: 197.7/19$

Left Out: -8.042 ± 1.918 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -3.188 ± 2.667 $\chi^2/\text{NDF}: 123.8/22$

Left In: -10.653 ± 1.988 $\chi^2/\text{NDF}: 21.4/22$

Left: -9.301 ± 1.380 $\chi^2/\text{NDF}: 48.6/47$

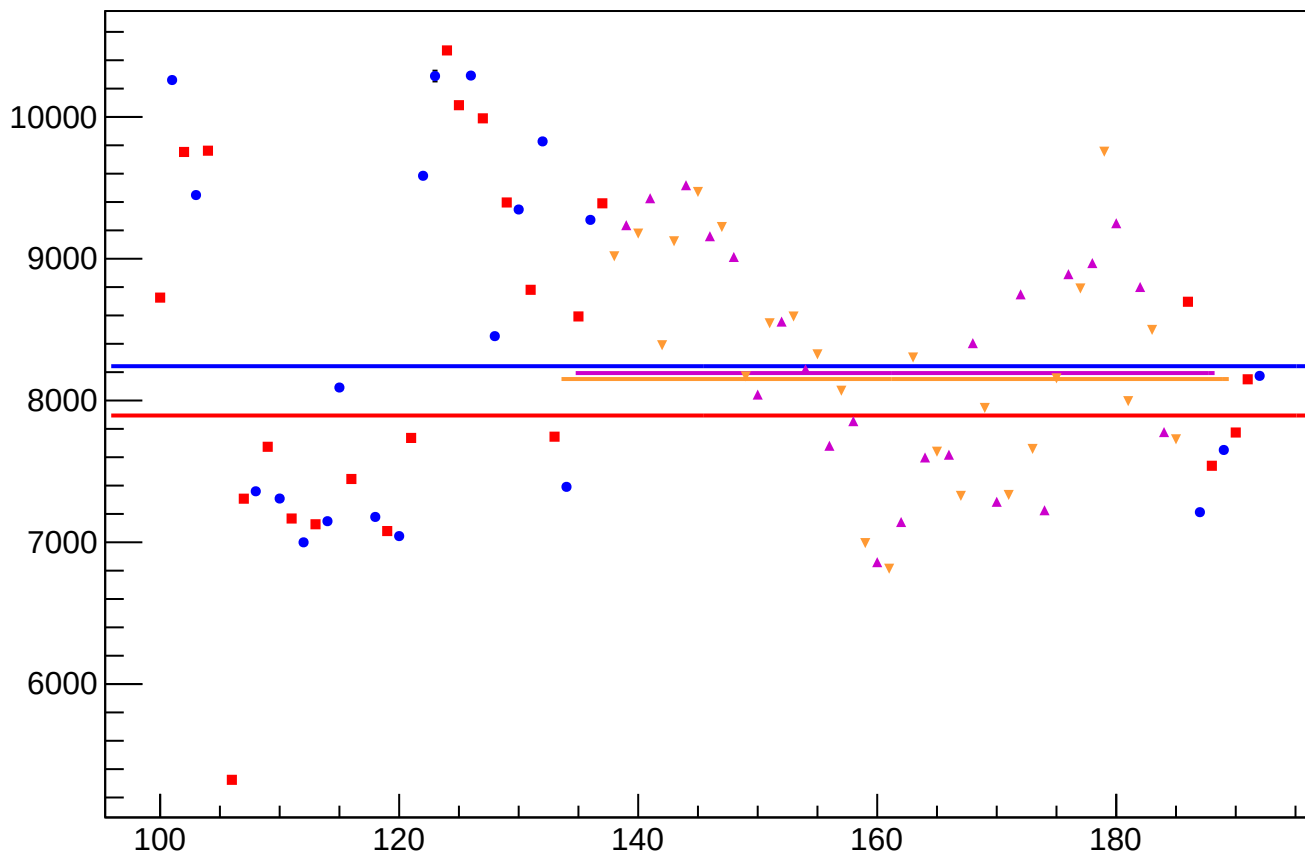
Right: 1.063 ± 1.964 $\chi^2/\text{NDF}: 327.0/42$

In: -5.305 ± 1.640 $\chi^2/\text{NDF}: 241.8/42$

Out: -6.387 ± 1.557 $\chi^2/\text{NDF}: 152.3/47$

All: -5.874 ± 1.129 $\chi^2/\text{NDF}: 394.3/90$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8242.073 ± 2.052 $\chi^2/\text{NDF}: 284924.4/19$

Left Out: 8151.489 ± 1.356 $\chi^2/\text{NDF}: 321803.3/24$

Right Out: 7894.264 ± 1.886 $\chi^2/\text{NDF}: 399691.2/22$

Left In: 8193.636 ± 1.405 $\chi^2/\text{NDF}: 338377.6/22$

Left: 8171.814 ± 0.976 $\chi^2/\text{NDF}: 660646.6/47$

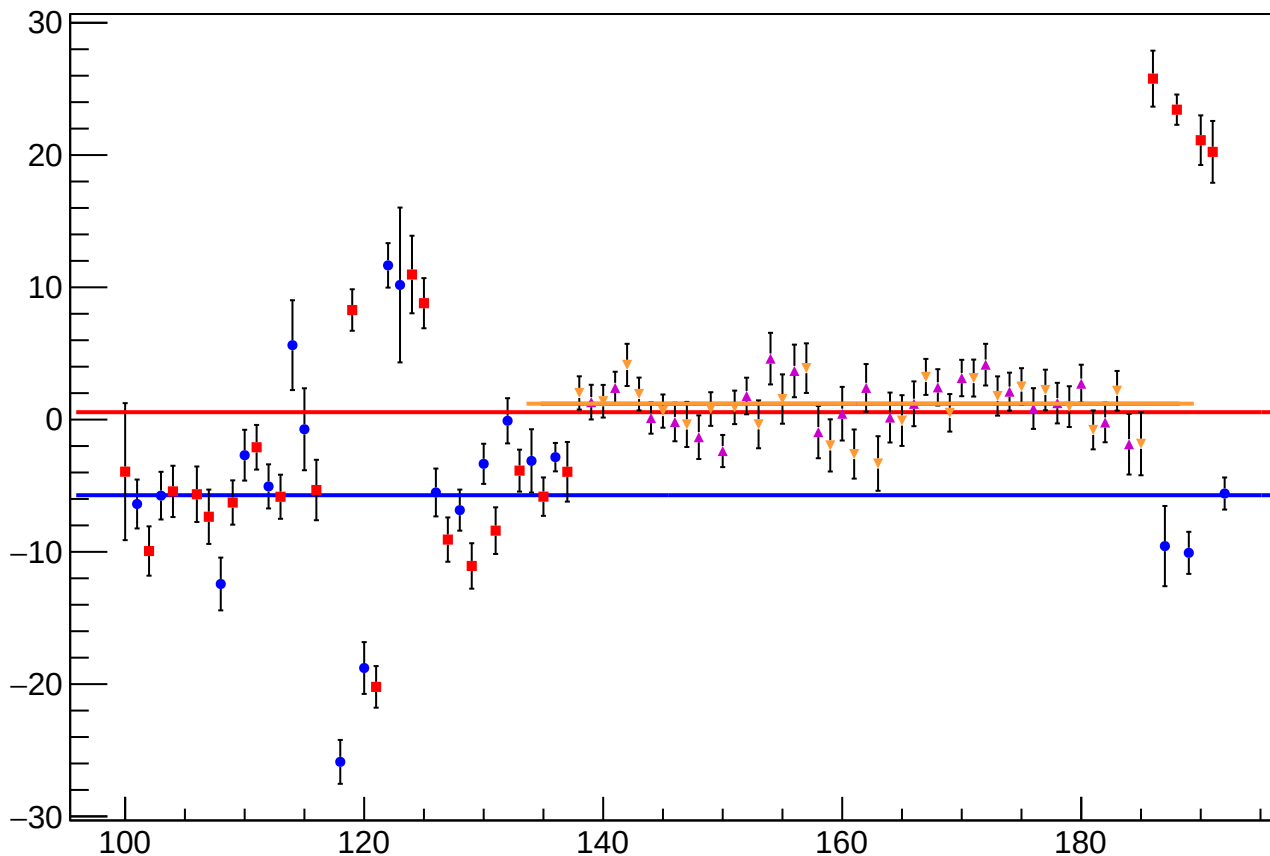
Right: 8053.505 ± 1.388 $\chi^2/\text{NDF}: 700191.0/42$

In: 8209.102 ± 1.160 $\chi^2/\text{NDF}: 623681.3/42$

Out: 8063.787 ± 1.101 $\chi^2/\text{NDF}: 733757.2/47$

All: 8132.690 ± 0.798 $\chi^2/\text{NDF}: 1365697.0/90$

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.718 $\pm$ 0.395 χ^2/NDF : 365.8/19

Left Out: 1.203 $\pm$ 0.302 χ^2/NDF :29.9/24

Right Out: 0.560 $\pm$ 0.376 χ^2/NDF : 1204.3/22

Left In: 1.198 $\pm$ 0.318 χ^2/NDF :31.2/22

Left: 1.201 $\pm$ 0.219 χ^2/NDF : 61.1/47

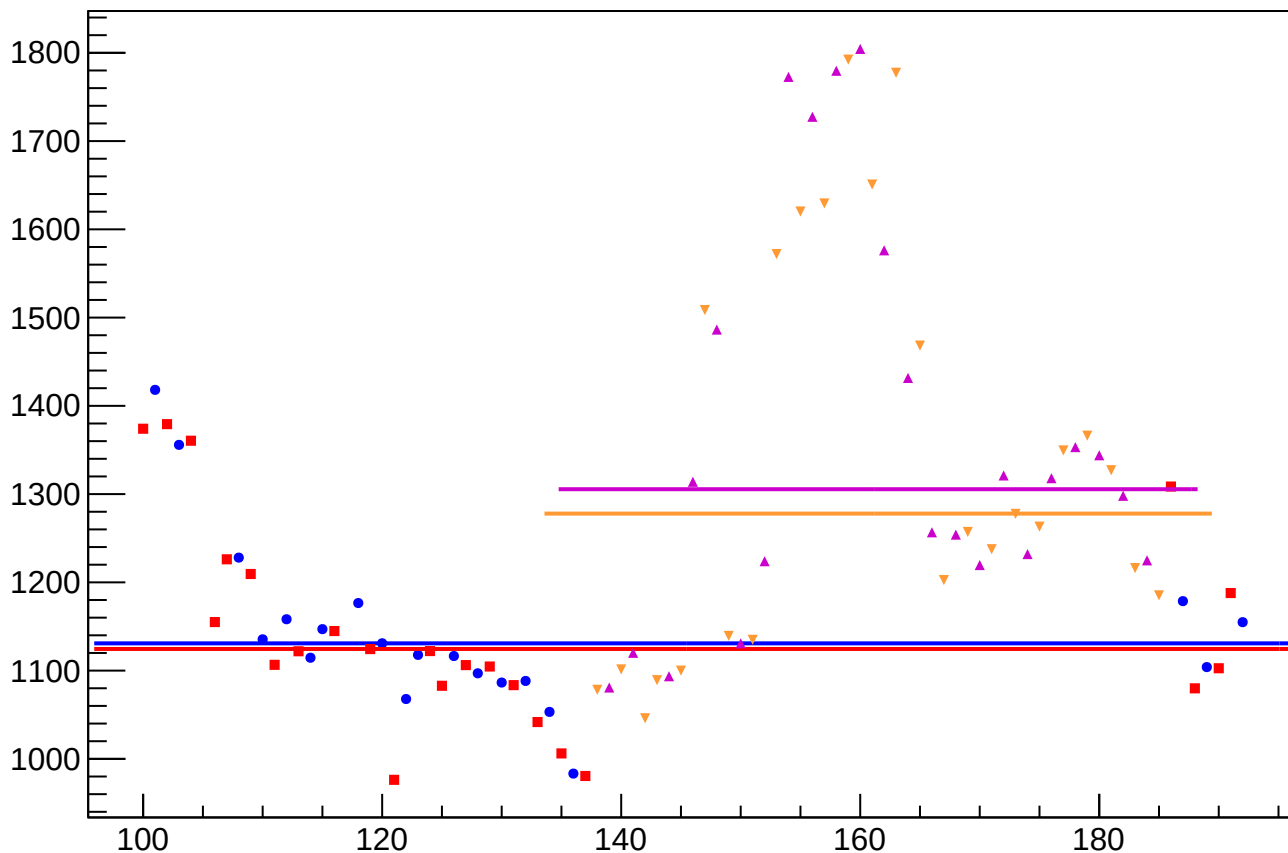
Right: -2.427 $\pm$ 0.273 χ^2/NDF : 1702.5/42

In: -1.522 $\pm$ 0.248 χ^2/NDF :582.8/42

Out: 0.951 $\pm$ 0.236 χ^2/NDF :1236.0/47

All: -0.224 $\pm$ 0.171 χ^2/NDF : 1871.1/90

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1130.880 $\pm$ 0.279 χ^2 /NDF: 134976.0/19

Left Out: 1277.916 $\pm$ 0.214 χ^2 /NDF: 878127.9/24

Right Out: 1124.527 $\pm$ 0.266 χ^2 /NDF: 149576.8/22

Left In: 1305.541 $\pm$ 0.225 χ^2 /NDF: 760450.8/22

Left: 1291.030 $\pm$ 0.155 χ^2 /NDF: 1646499.4/47

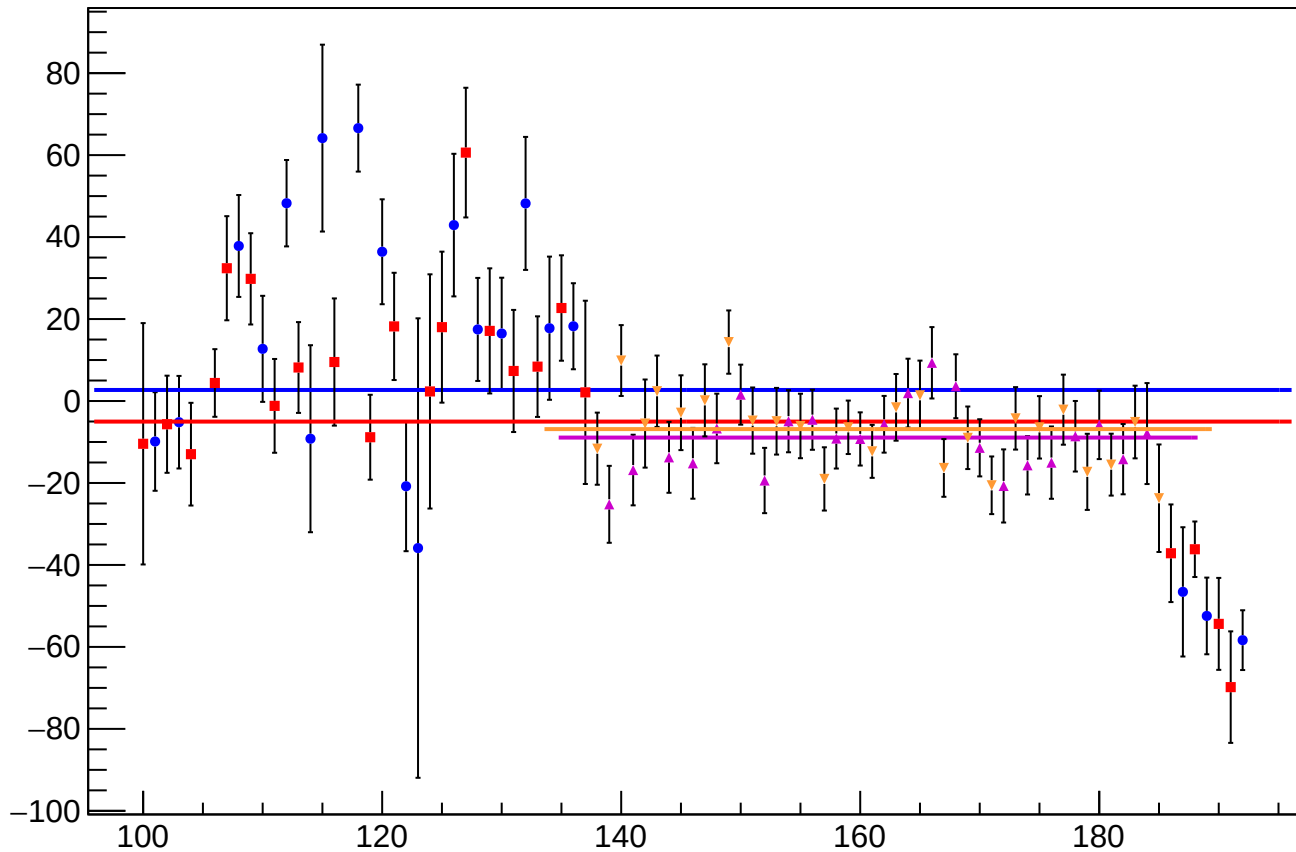
Right: 1127.549 $\pm$ 0.193 χ^2 /NDF: 284823.8/42

In: 1236.846 $\pm$ 0.175 χ^2 /NDF: 1132507.3/42

Out: 1217.733 $\pm$ 0.167 χ^2 /NDF: 1229547.6/47

All: 1226.814 $\pm$ 0.121 χ^2 /NDF: 2368299.8/90

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 2.695 ± 2.831 $\chi^2/\text{NDF}: 215.4/19$

Left Out: -6.854 ± 1.616 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -5.020 ± 2.561 $\chi^2/\text{NDF}: 123.9/22$

Left In: -8.923 ± 1.674 $\chi^2/\text{NDF}: 21.8/22$

Left: -7.852 ± 1.163 $\chi^2/\text{NDF}: 51.3/47$

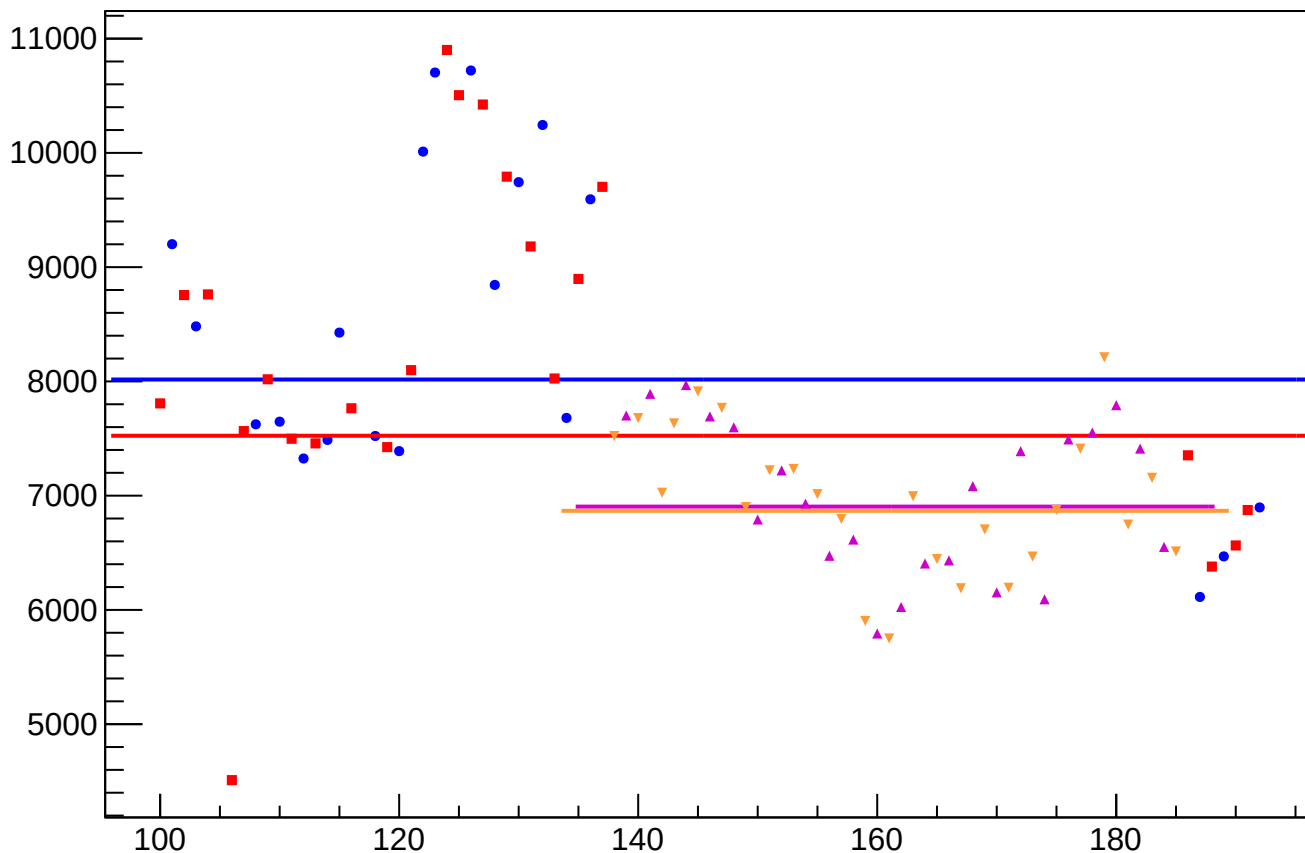
Right: -1.549 ± 1.899 $\chi^2/\text{NDF}: 343.4/42$

In: -5.912 ± 1.441 $\chi^2/\text{NDF}: 249.7/42$

Out: -6.332 ± 1.366 $\chi^2/\text{NDF}: 153.0/47$

All: -6.133 ± 0.992 $\chi^2/\text{NDF}: 402.7/90$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8016.566 $\pm$ 2.002 χ^2/NDF : 385984.8/19

Left Out: 6867.371 $\pm$ 1.142 χ^2/NDF : 306895.0/24

Right Out: 7524.354 $\pm$ 1.811 χ^2/NDF : 654842.7/22

Left In: 6904.117 $\pm$ 1.184 χ^2/NDF : 325912.6/22

Left: 6885.088 $\pm$ 0.822 χ^2/NDF : 633306.5/47

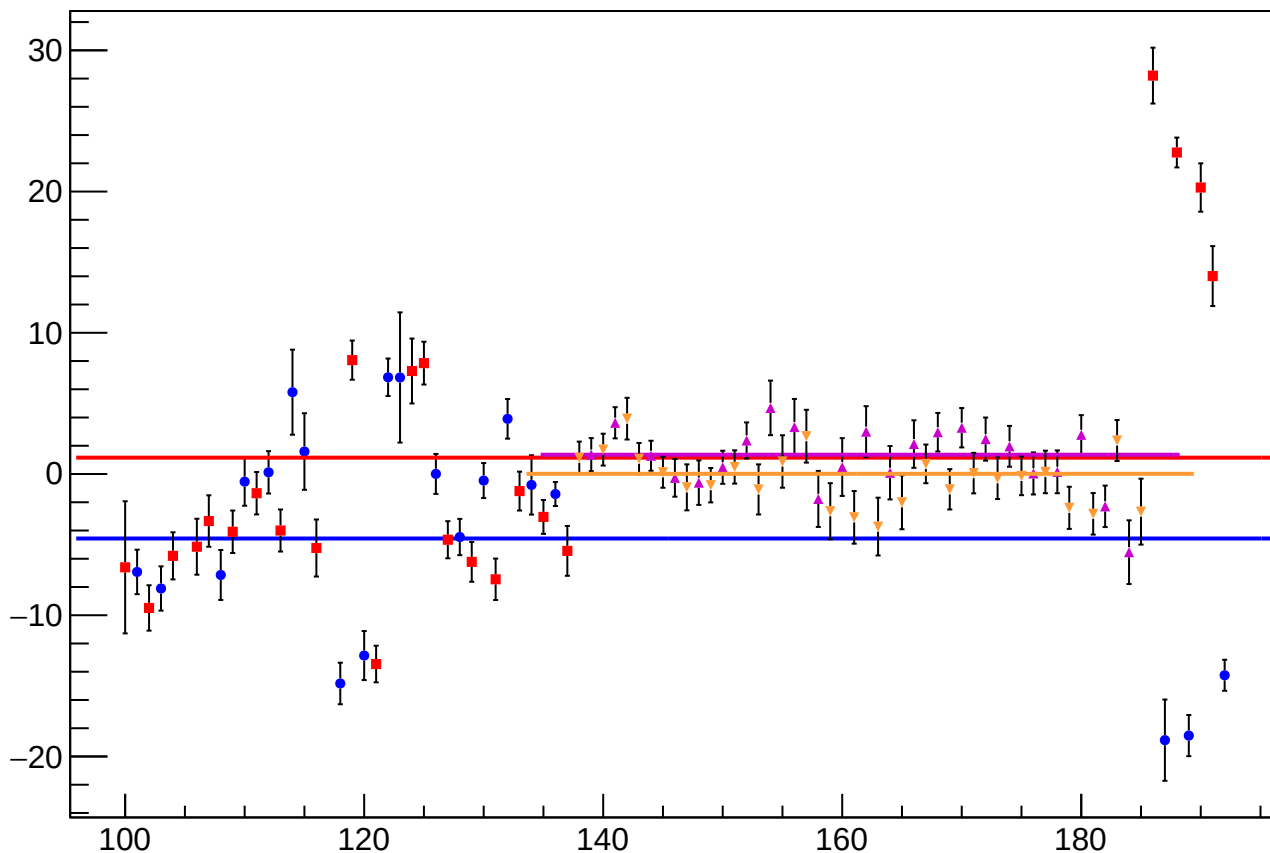
Right: 7745.816 $\pm$ 1.343 χ^2/NDF : 1074080.3/42

In: 7192.375 $\pm$ 1.019 χ^2/NDF : 940676.1/42

Out: 7054.439 $\pm$ 0.966 χ^2/NDF : 1055916.0/47

All: 7119.732 $\pm$ 0.701 χ^2/NDF : 2006240.9/90

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.567 ± 0.336 $\chi^2/\text{NDF}: 462.2/19$

Left Out: 0.014 ± 0.290 $\chi^2/\text{NDF}: 35.0/24$

Right Out: 1.159 ± 0.325 $\chi^2/\text{NDF}: 1174.6/22$

Left In: 1.365 ± 0.306 $\chi^2/\text{NDF}: 38.5/22$

Left: 0.654 ± 0.210 $\chi^2/\text{NDF}: 83.8/47$

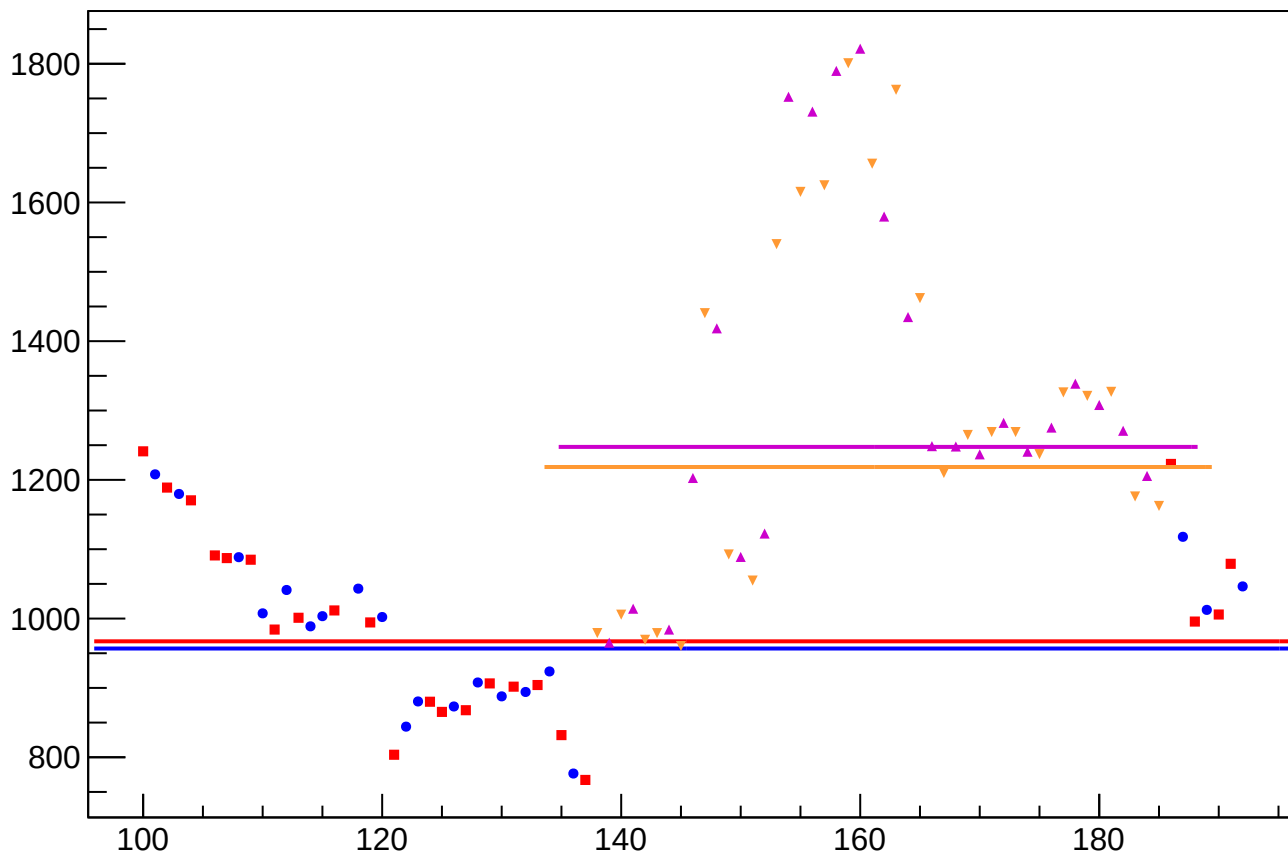
Right: -1.610 ± 0.233 $\chi^2/\text{NDF}: 1787.0/42$

In: -1.322 ± 0.226 $\chi^2/\text{NDF}: 671.5/42$

Out: 0.522 ± 0.216 $\chi^2/\text{NDF}: 1216.5/47$

All: -0.360 ± 0.156 $\chi^2/\text{NDF}: 1922.7/90$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 956.807 $\pm$ 0.237 χ^2/NDF : 268037.0/19

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

Right Out: 967.187 $\pm$ 0.230 χ^2/NDF : 266106.7/22

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

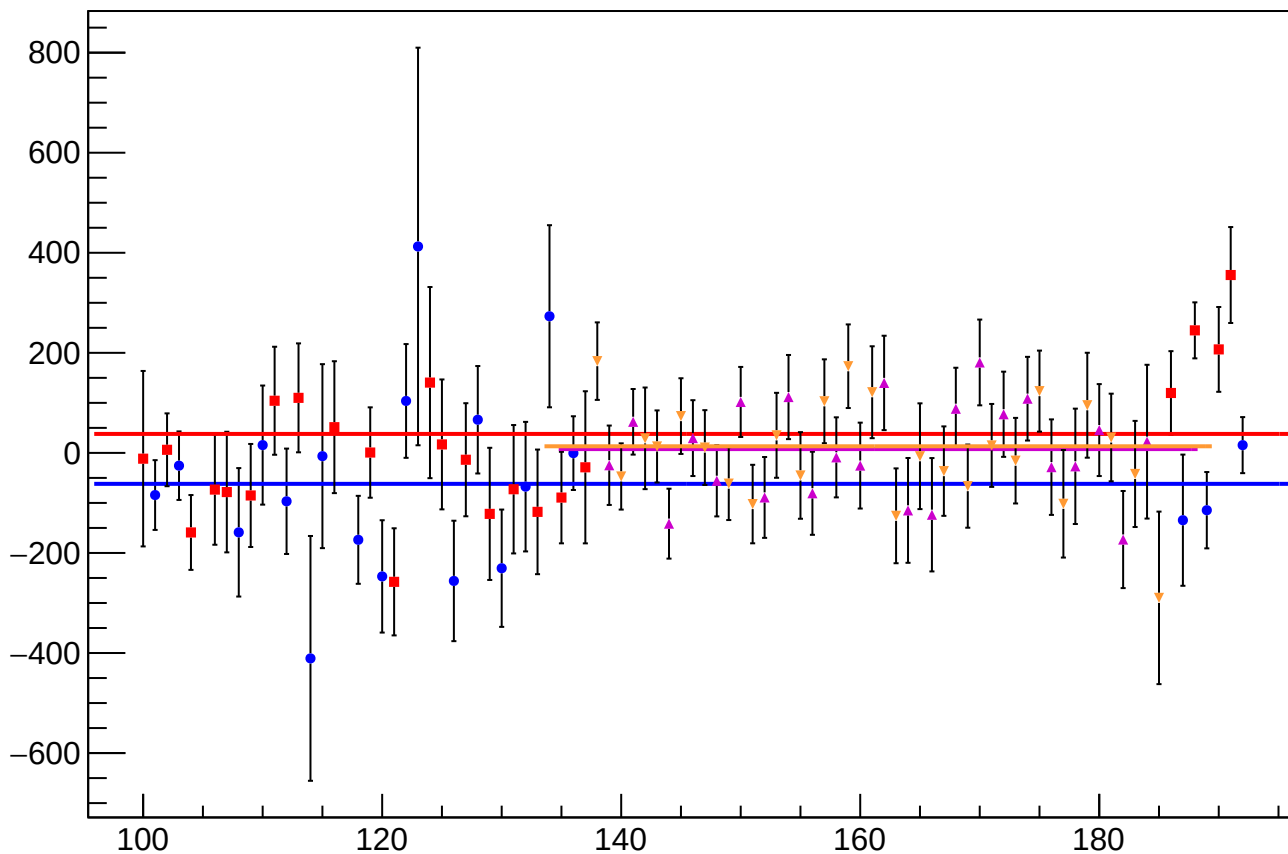
Right: 962.168 $\pm$ 0.165 χ^2/NDF : 535131.5/42

In: 1115.817 $\pm$ 0.160 χ^2/NDF :2162069.3/42

Out: 1107.069 $\pm$ 0.153 χ^2/NDF :2198636.8/47

All: 1111.253 $\pm$ 0.110 χ^2/NDF : 4362270.7/90

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -61.869 ± 22.194 χ^2/NDF : 24.4/19

Left Out: 13.207 ± 17.146 χ^2/NDF : 26.8/24

Right Out: 37.916 ± 20.837 χ^2/NDF : 55.2/22

Left In: 7.618 ± 17.672 χ^2/NDF : 28.1/22

Left: 10.497 ± 12.306 χ^2/NDF : 55.0/47

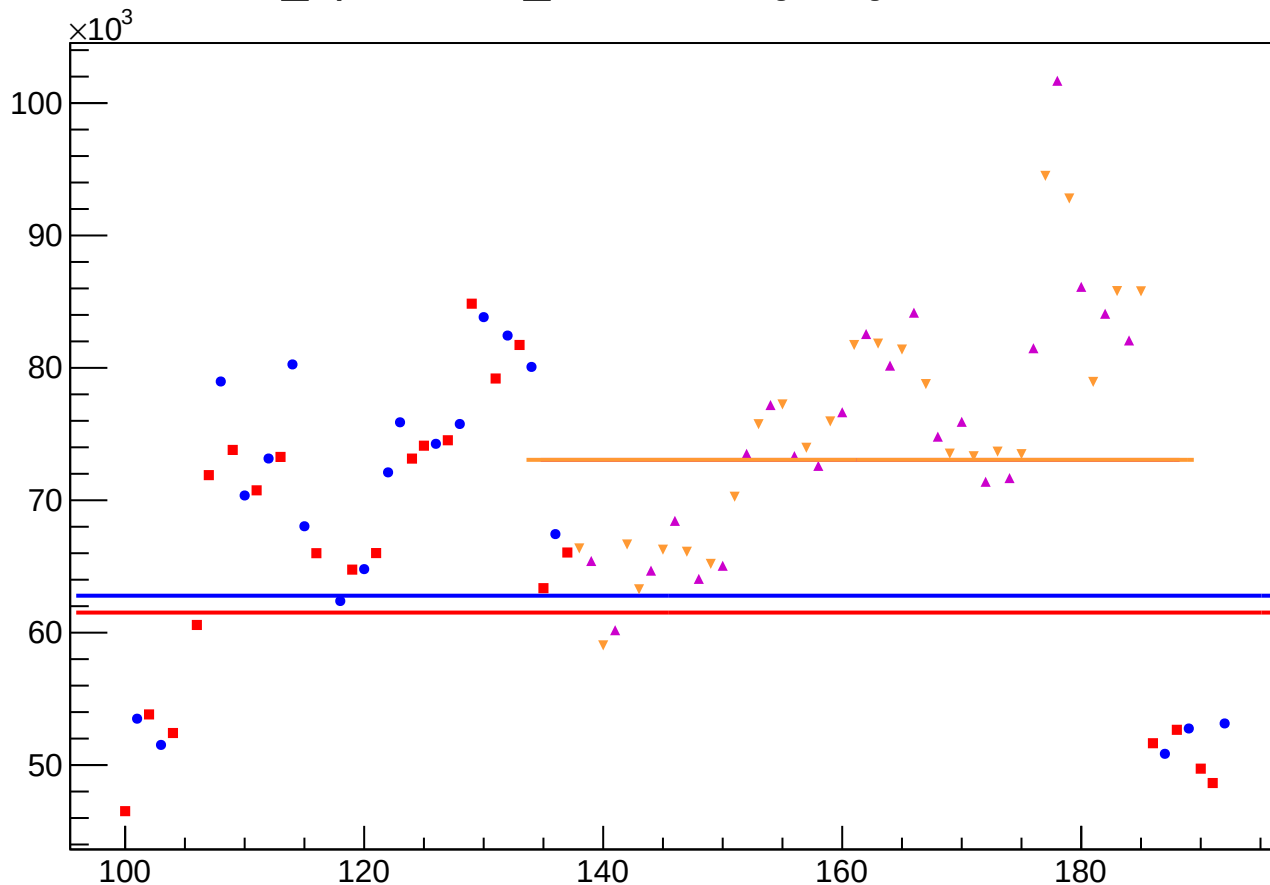
Right: -8.833 ± 15.191 χ^2/NDF : 90.3/42

In: -19.343 ± 13.825 χ^2/NDF : 58.5/42

Out: 23.183 ± 13.240 χ^2/NDF : 82.8/47

All: 2.838 ± 9.562 χ^2/NDF : 146.2/90

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 62792.135 $\pm$ 15.694 χ^2/NDF : 471293.0/19

Left Out: 73054.401 $\pm$ 12.124 χ^2/NDF : 473050.9/24

Right Out: 61517.410 $\pm$ 14.734 χ^2/NDF : 517434.6/22

Left In: 73045.500 $\pm$ 12.496 χ^2/NDF : 463525.5/22

Left: 73050.085 $\pm$ 8.701 χ^2/NDF : 936576.6/47

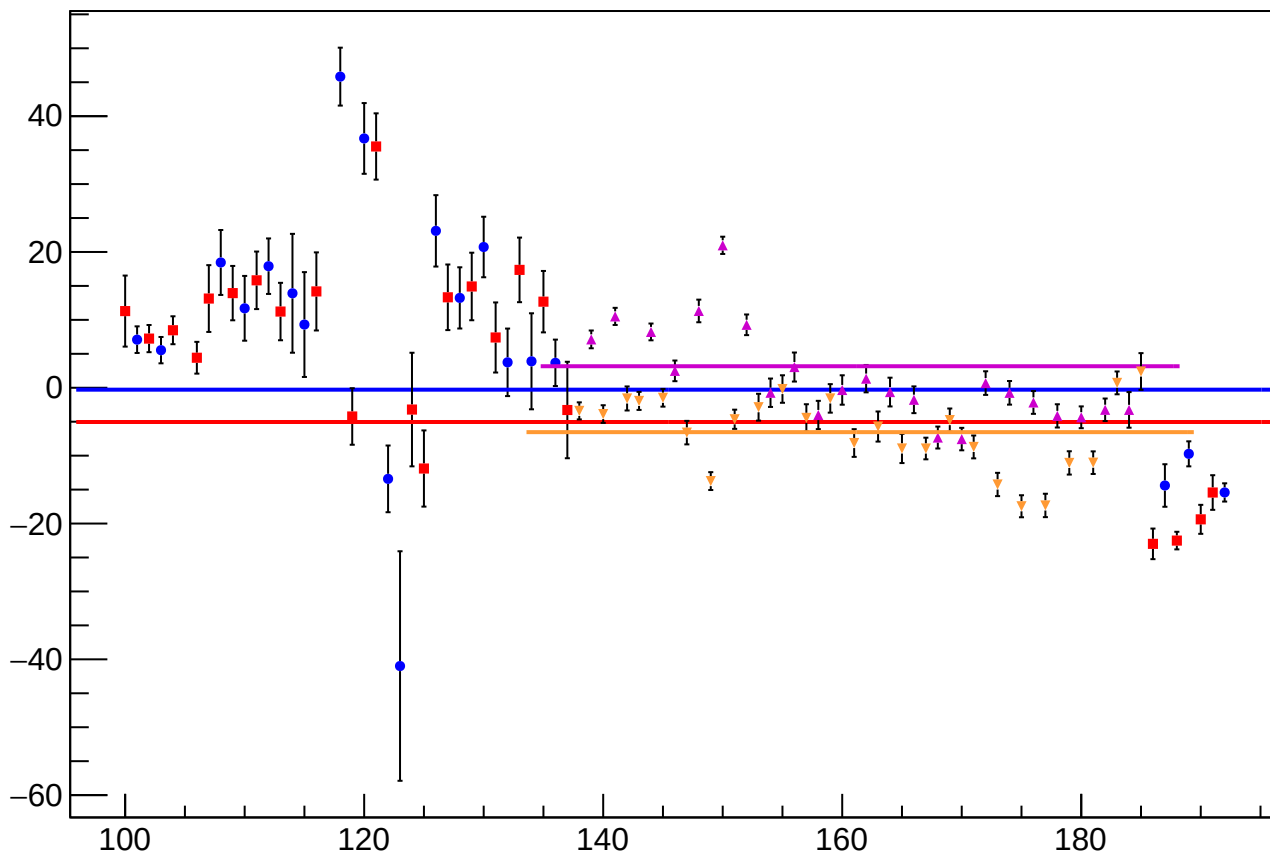
Right: 62114.610 $\pm$ 10.742 χ^2/NDF : 992234.3/42

In: 69067.213 $\pm$ 9.775 χ^2/NDF : 1196059.2/42

Out: 68396.465 $\pm$ 9.362 χ^2/NDF : 1356065.7/47

All: 68717.356 $\pm$ 6.761 χ^2/NDF : 2554580.6/9

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.282 ± 0.695 $\chi^2/\text{NDF}: 475.9/19$

Left Out: -6.537 ± 0.332 $\chi^2/\text{NDF}: 252.7/24$

Right Out: -5.043 ± 0.633 $\chi^2/\text{NDF}: 644.9/22$

Left In: 3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

Left: -1.892 ± 0.240 $\chi^2/\text{NDF}: 1149.5/47$

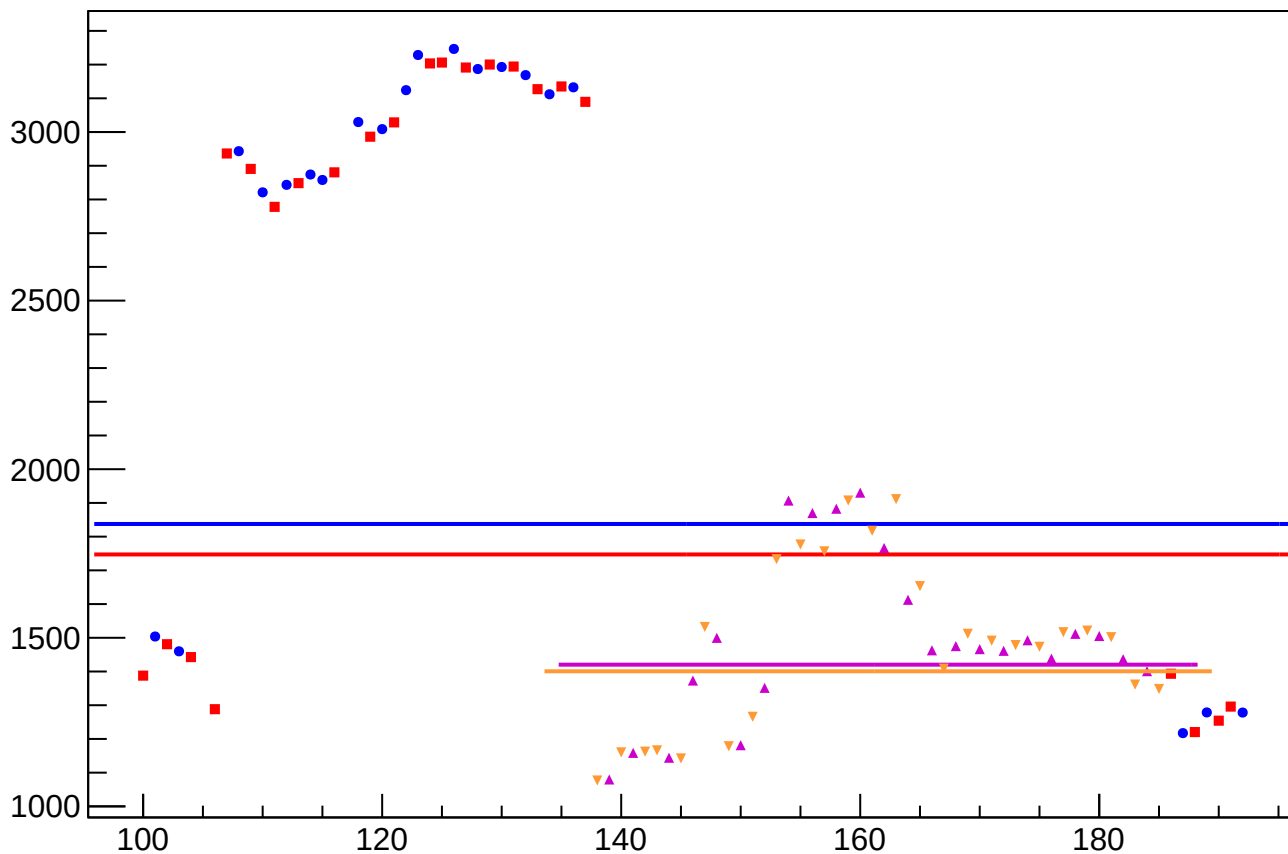
Right: -2.883 ± 0.468 $\chi^2/\text{NDF}: 1146.5/42$

In: 2.483 ± 0.310 $\chi^2/\text{NDF}: 983.0/42$

Out: -6.215 ± 0.294 $\chi^2/\text{NDF}: 902.0/47$

All: -2.098 ± 0.213 $\chi^2/\text{NDF}: 2299.5/90$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1837.535 $\pm$ 0.491 χ^2/NDF : 2529639.0/19

Left Out: 1400.637 $\pm$ 0.235 χ^2/NDF : 1037921.6/24

Right Out: 1747.159 $\pm$ 0.448 χ^2/NDF : 2771783.1/22

Left In: 1420.285 $\pm$ 0.245 χ^2/NDF : 905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2/NDF : 1946462.8/47

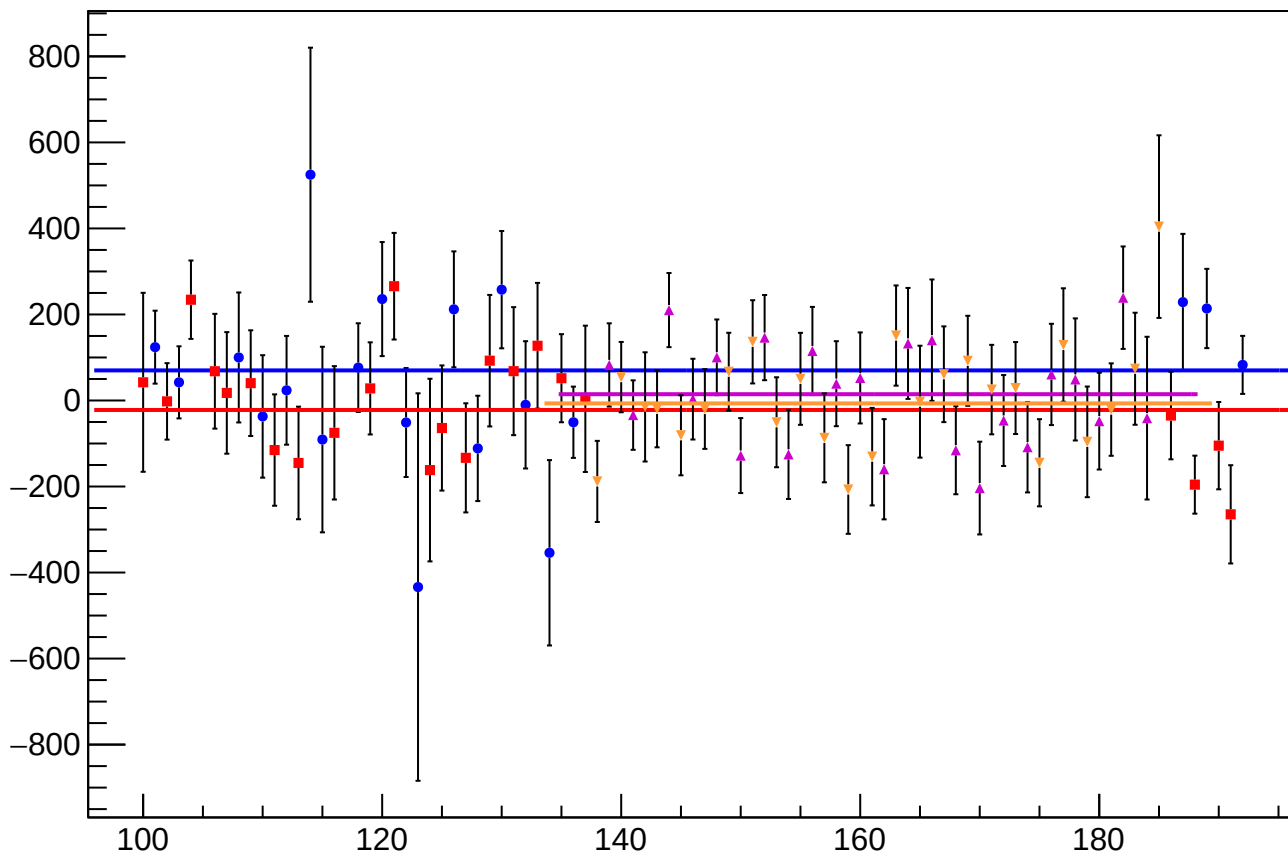
Right: 1788.155 $\pm$ 0.331 χ^2/NDF : 5319917.2/42

In: 1503.395 $\pm$ 0.219 χ^2/NDF : 4012634.6/42

Out: 1475.336 $\pm$ 0.208 χ^2/NDF : 4279907.4/47

All: 1488.615 $\pm$ 0.151 χ^2/NDF : 8301170.3/90

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 69.951 $\pm$ 26.226 χ^2 /NDF: 22.9/19

Left Out: -6.789 $\pm$ 21.213 χ^2 /NDF:24.7/24

Right Out: -22.047 $\pm$ 24.687 χ^2 /NDF: 31.6/22

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

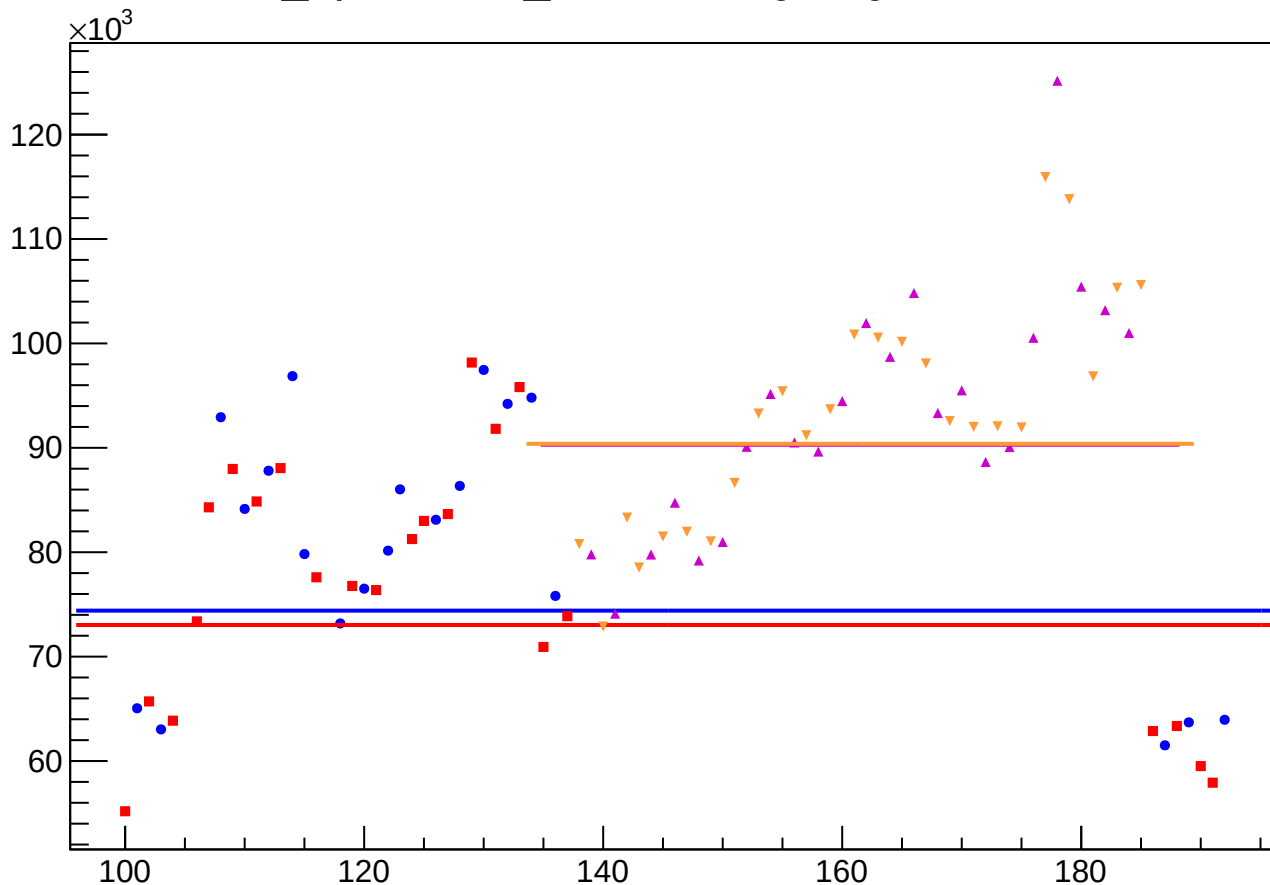
Right: 21.175 $\pm$ 17.976 χ^2 /NDF: 61.0/42

In: 37.281 $\pm$ 16.785 χ^2 /NDF:55.3/42

Out: -13.270 $\pm$ 16.089 χ^2 /NDF:56.5/47

All: 10.935 $\pm$ 11.615 χ^2 /NDF: 116.6/90

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 74405.297 $\pm$ 18.544 χ^2/NDF : 369229.9/19

Left Out: 90384.853 $\pm$ 15.000 χ^2/NDF : 461648.2/24

Right Out: 73032.293 $\pm$ 17.457 χ^2/NDF : 432934.1/22

Left In: 90293.591 $\pm$ 15.448 χ^2/NDF : 461337.5/22

Left: 90340.563 $\pm$ 10.761 χ^2/NDF : 923003.7/47

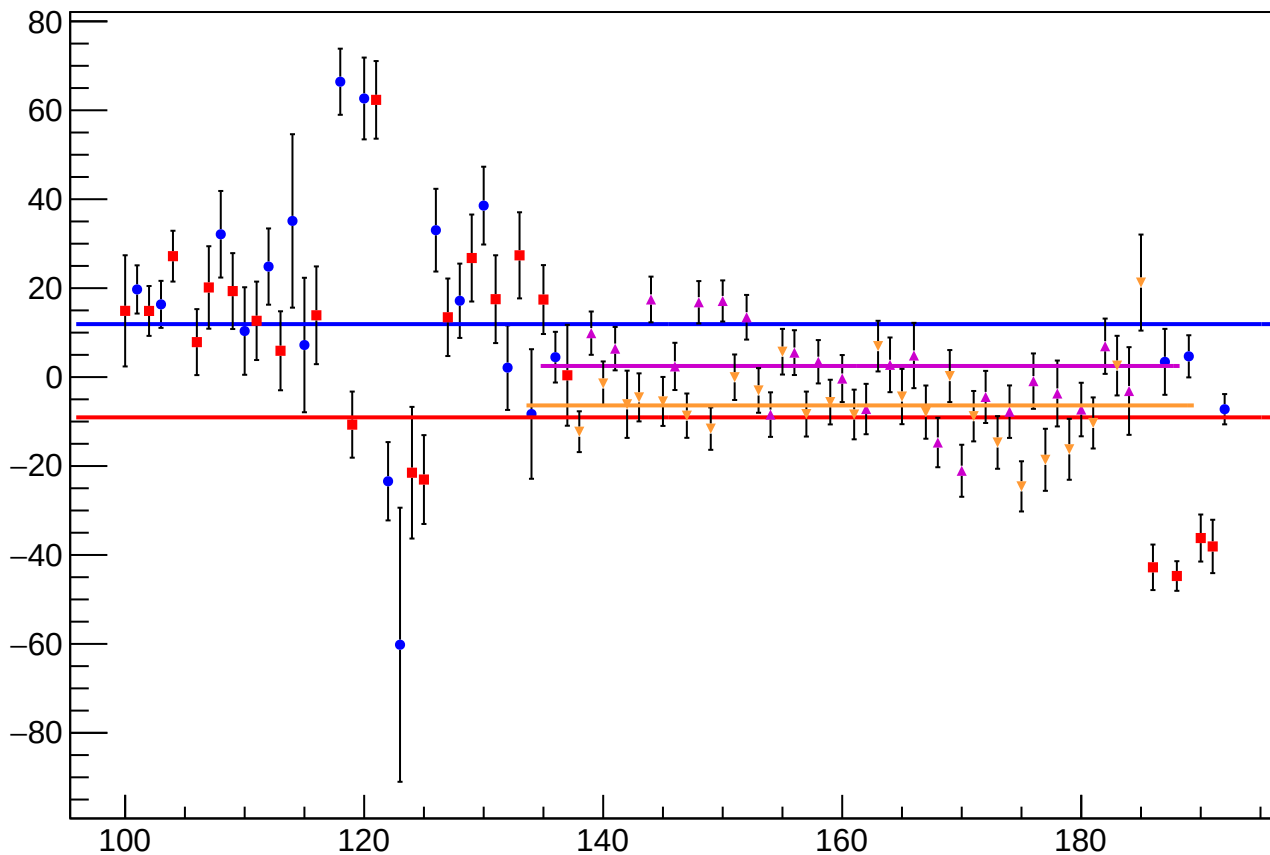
Right: 73677.343 $\pm$ 12.711 χ^2/NDF : 805070.3/42

In: 83785.059 $\pm$ 11.869 χ^2/NDF : 1263920.1/42

Out: 83014.492 $\pm$ 11.377 χ^2/NDF : 1463006.8/47

All: 83383.466 $\pm$ 8.213 χ^2/NDF : 2729123.6/95

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 11.913 $\pm$ 1.602 χ^2 /NDF: 171.4/19

Left Out: -6.370 $\pm$ 1.124 χ^2 /NDF:45.5/24

Right Out: -9.055 $\pm$ 1.486 χ^2 /NDF: 432.9/22

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

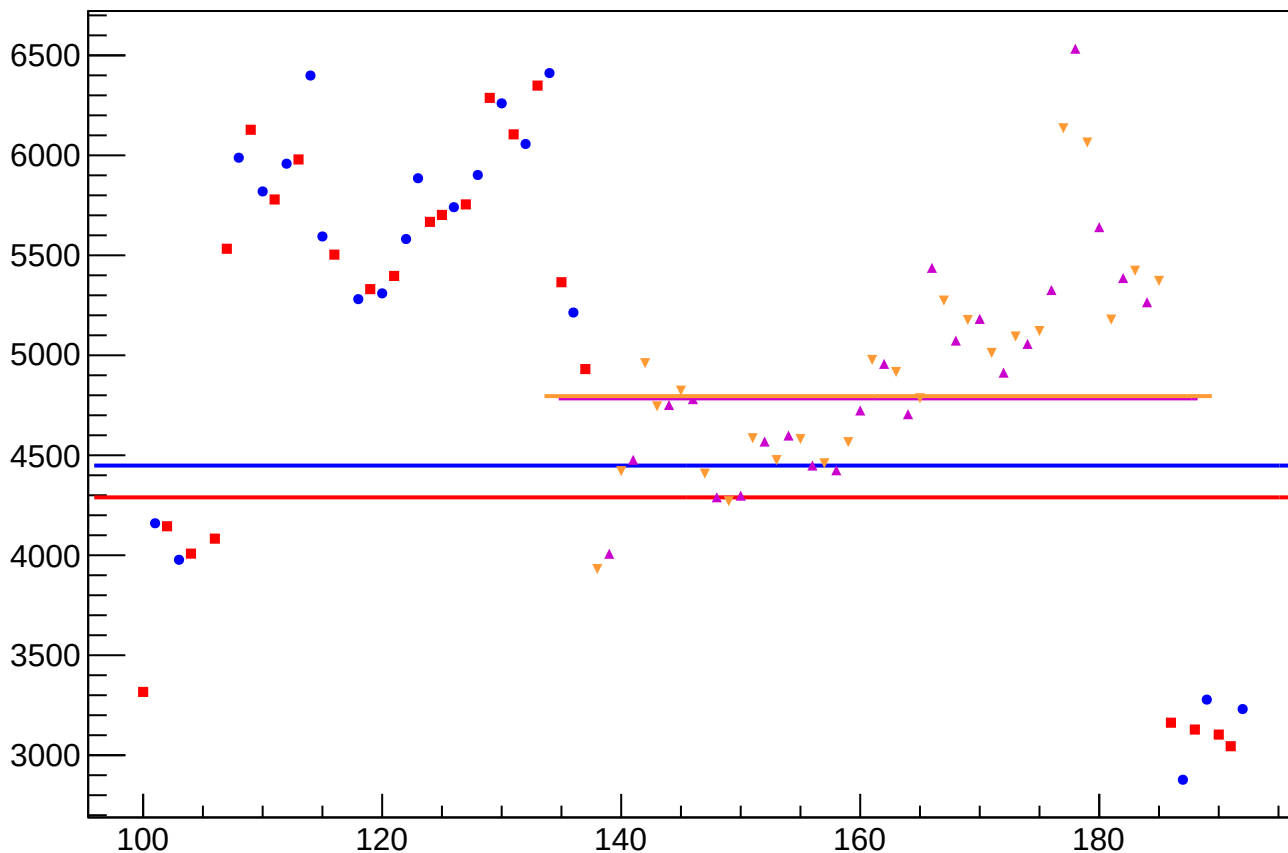
Right: 0.643 $\pm$ 1.090 χ^2 /NDF: 696.4/42

In: 5.723 $\pm$ 0.937 χ^2 /NDF:272.5/42

Out: -7.347 $\pm$ 0.896 χ^2 /NDF:480.5/47

All: -1.104 $\pm$ 0.648 χ^2 /NDF: 854.5/90

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4448.543 ± 1.133 χ^2/NDF : 1066005.6/19

Left Out: 4795.847 ± 0.795 χ^2/NDF : 361249.7/24

Right Out: 4289.513 ± 1.051 χ^2/NDF : 1300928.1/22

Left In: 4784.434 ± 0.817 χ^2/NDF : 357507.2/22

Left: 4790.301 ± 0.570 χ^2/NDF : 718857.1/47

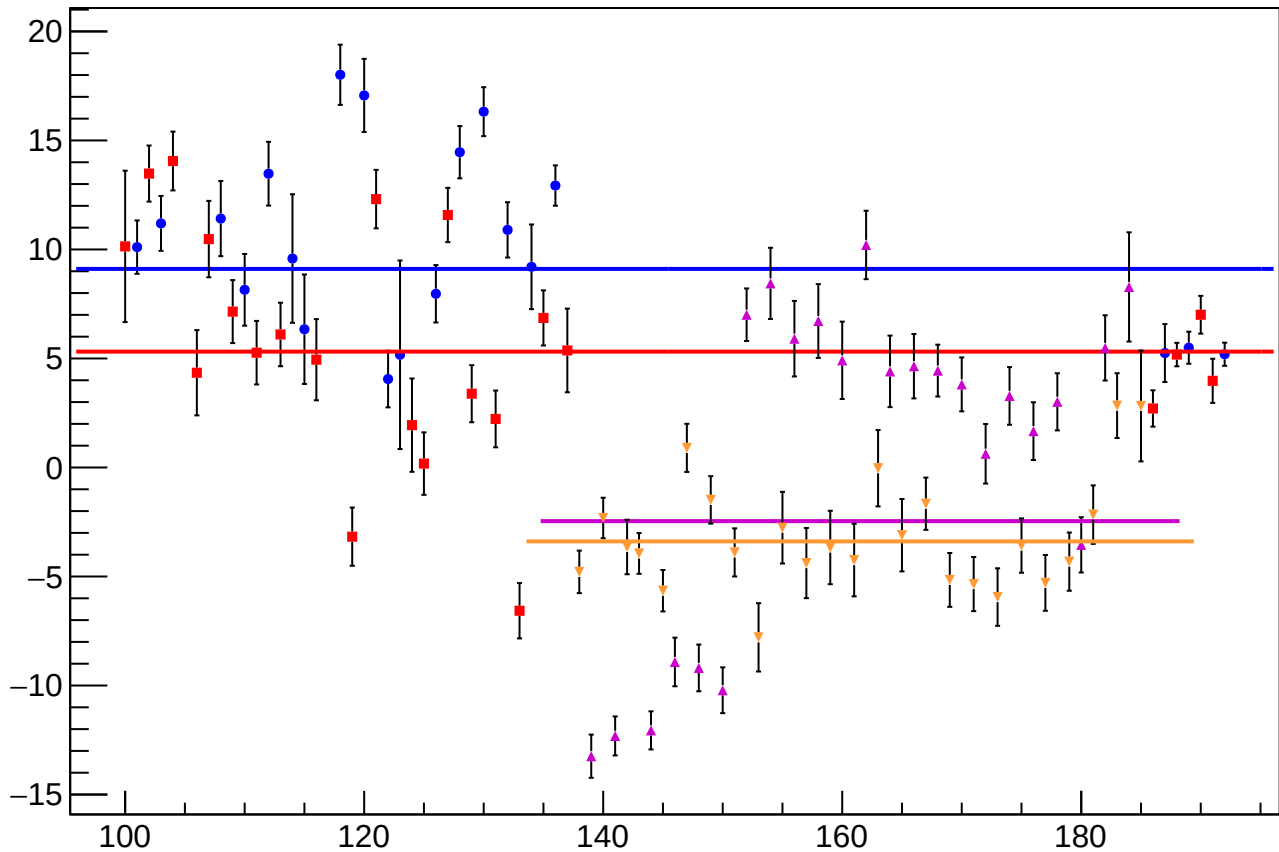
Right: 4363.067 ± 0.770 χ^2/NDF : 2377526.1/42

In: 4669.438 ± 0.663 χ^2/NDF : 1481330.1/42

Out: 4611.629 ± 0.634 χ^2/NDF : 1809872.8/47

All: 4639.242 ± 0.458 χ^2/NDF : 3295176.0/90

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 9.108 $\pm$ 0.264 χ^2/NDF : 263.7/19

Left Out: -3.390 $\pm$ 0.252 χ^2/NDF : 77.7/24

Right Out: 5.314 $\pm$ 0.251 χ^2/NDF : 315.8/22

Left In: -2.461 $\pm$ 0.264 χ^2/NDF : 928.0/22

Left: -2.947 $\pm$ 0.183 χ^2/NDF : 1012.2/47

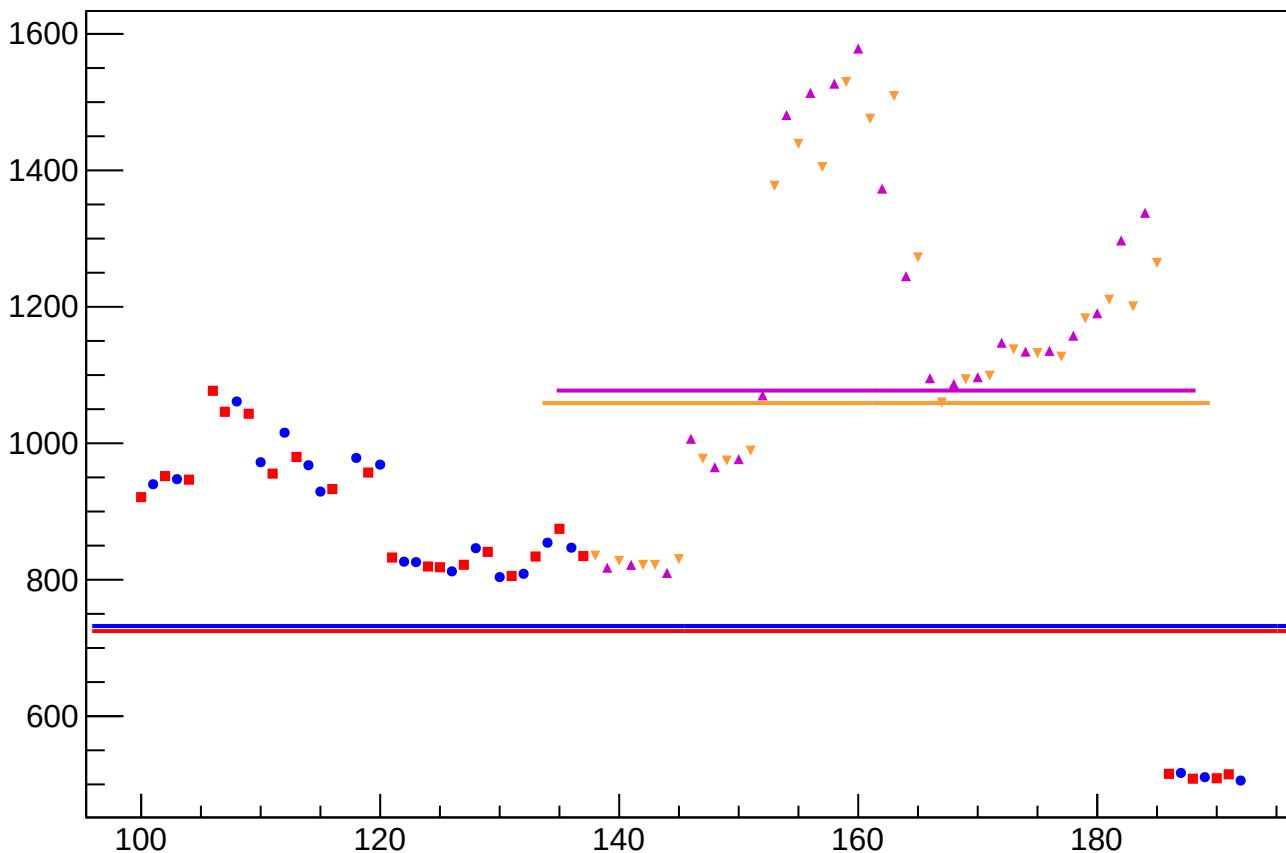
Right: 7.115 $\pm$ 0.182 χ^2/NDF : 688.1/42

In: 3.334 $\pm$ 0.187 χ^2/NDF : 2150.8/42

Out: 0.987 $\pm$ 0.178 χ^2/NDF : 992.2/47

All: 2.103 $\pm$ 0.129 χ^2/NDF : 3225.8/90

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 732.220 $\pm$ 0.187 χ^2 /NDF: 1124339.3/19

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF: 1403222.2/24

Right Out: 724.739 $\pm$ 0.177 χ^2 /NDF: 1319047.6/22

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

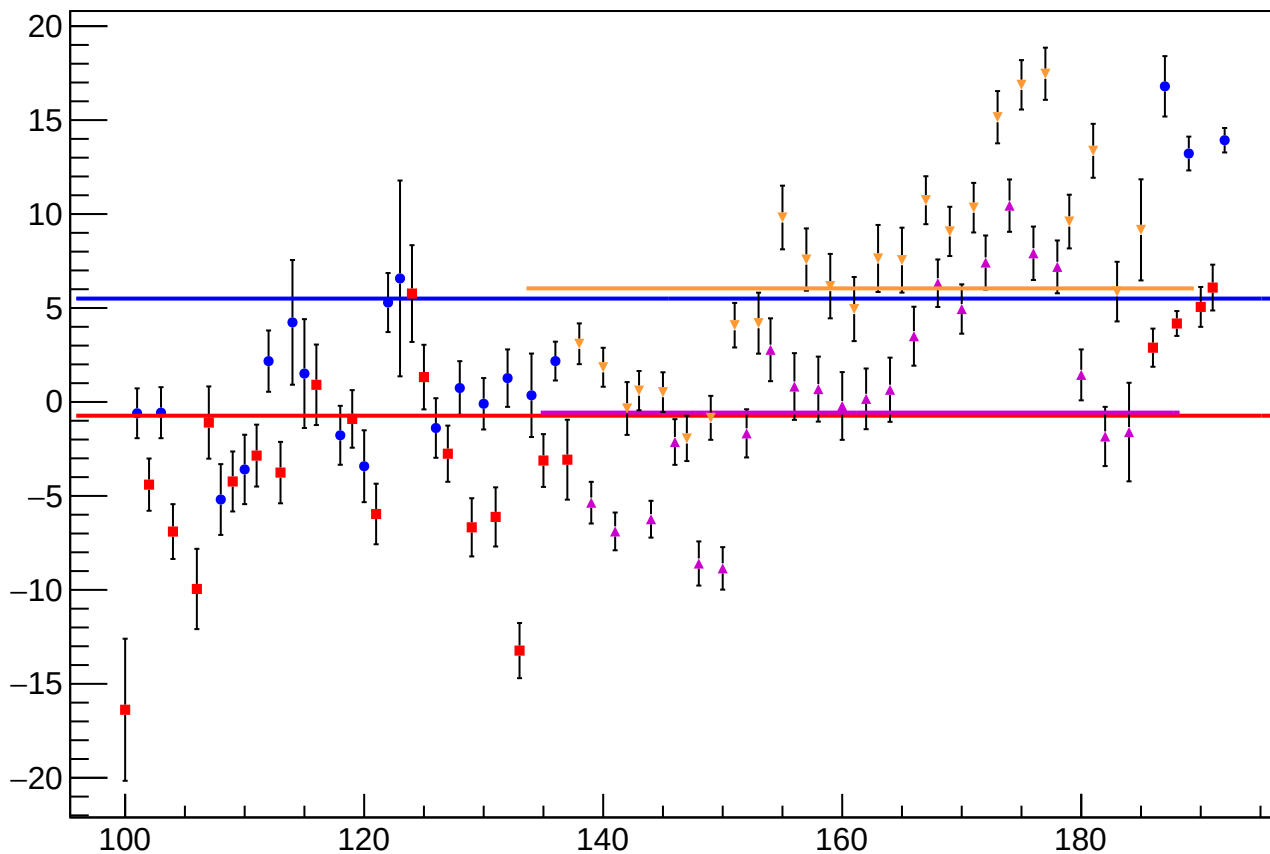
Right: 728.289 $\pm$ 0.129 χ^2 /NDF: 2444231.2/42

In: 904.461 $\pm$ 0.132 χ^2 /NDF: 4111257.9/42

Out: 890.896 $\pm$ 0.126 χ^2 /NDF: 4487456.6/47

All: 897.347 $\pm$ 0.091 χ^2 /NDF: 8604247.1/90

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 5.502 $\pm$ 0.311 χ^2/NDF : 507.9/19

Left Out: 6.045 $\pm$ 0.272 χ^2/NDF : 430.8/24

Right Out: -0.731 $\pm$ 0.295 χ^2/NDF : 323.2/22

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

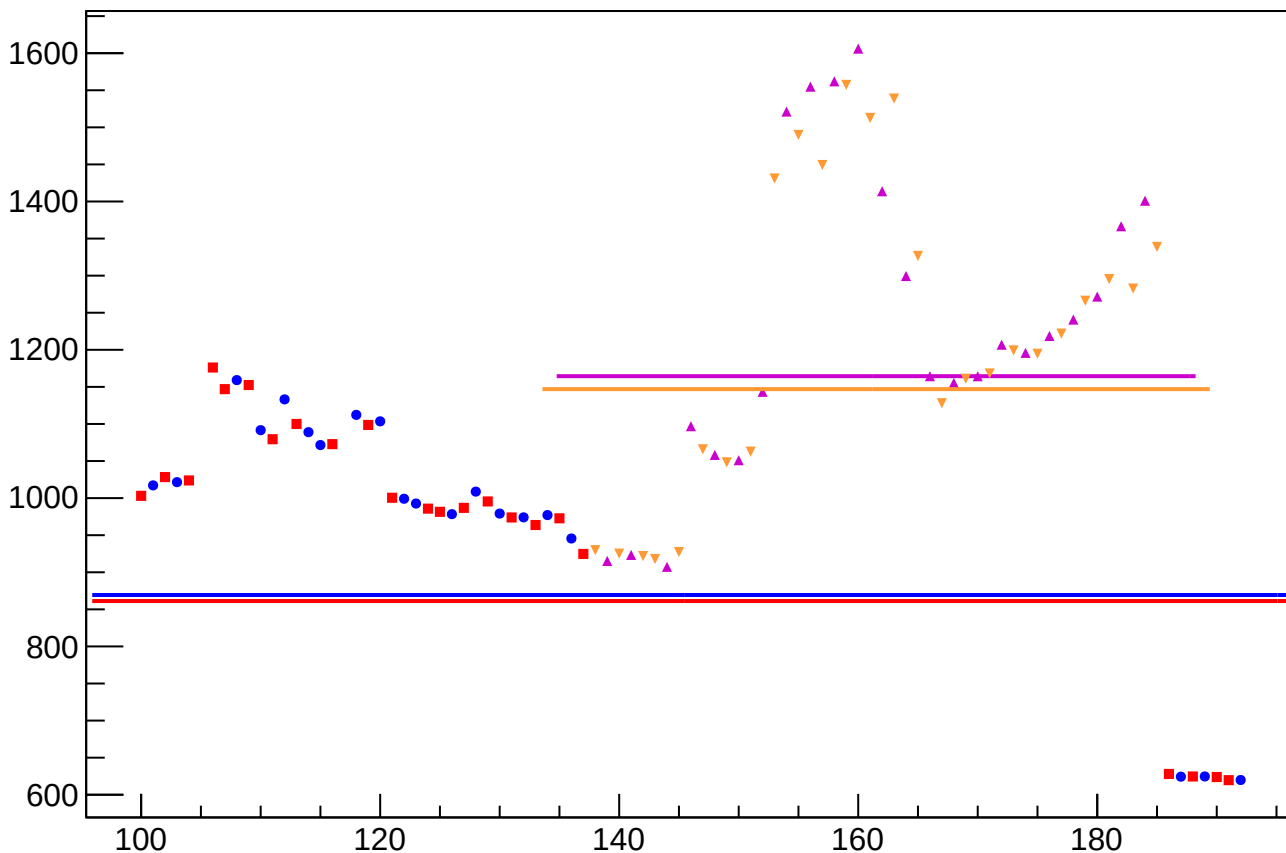
Right: 2.228 $\pm$ 0.214 χ^2/NDF : 1042.7/42

In: 2.199 $\pm$ 0.210 χ^2/NDF : 1132.7/42

Out: 2.938 $\pm$ 0.200 χ^2/NDF : 1039.4/47

All: 2.586 $\pm$ 0.145 χ^2/NDF : 2178.6/90

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 869.357 $\pm$ 0.220 χ^2 /NDF: 844315.6/19

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 861.213 $\pm$ 0.209 χ^2 /NDF: 988990.4/22

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

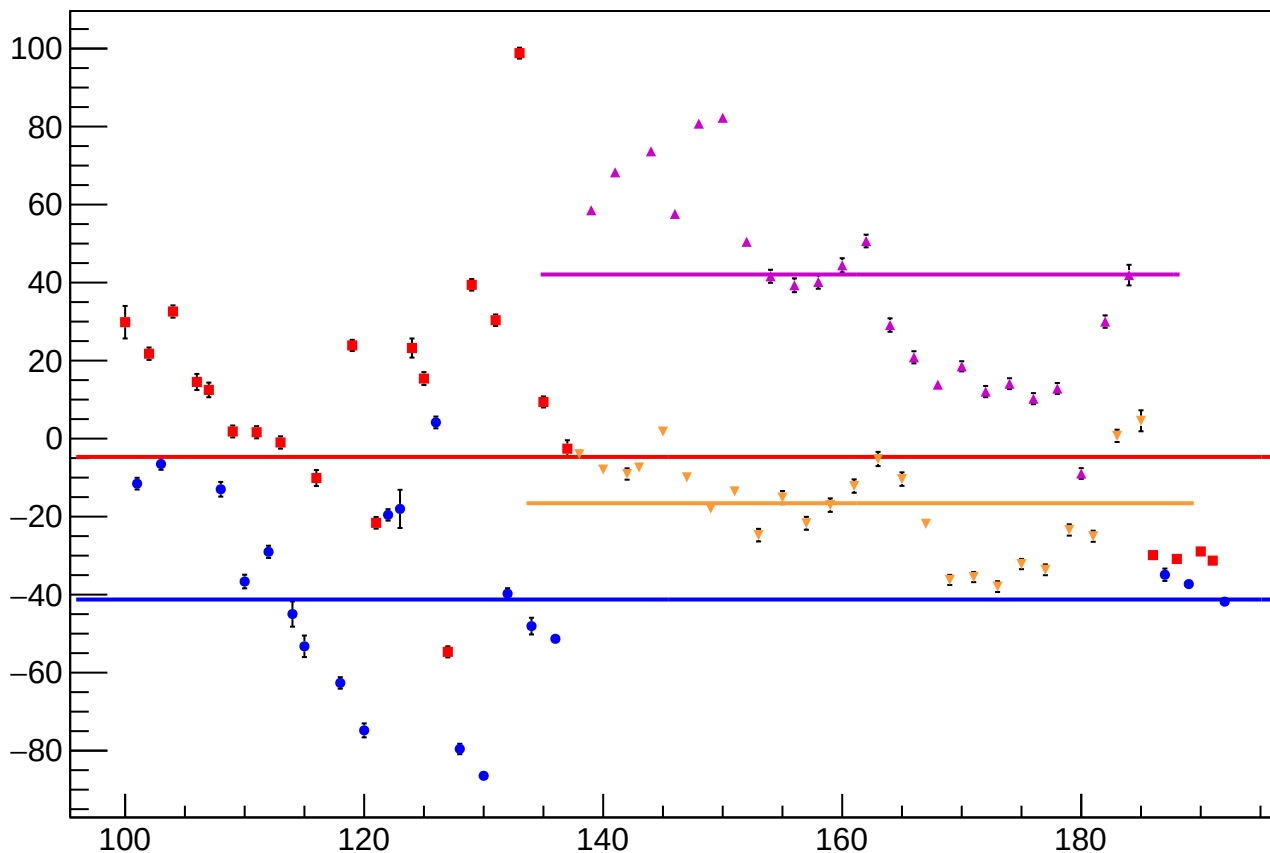
Right: 865.078 $\pm$ 0.151 χ^2 /NDF: 1834028.7/42

In: 1029.987 $\pm$ 0.148 χ^2 /NDF:2771297.2/42

Out: 1015.917 $\pm$ 0.141 χ^2 /NDF:3049451.4/47

All: 1022.618 $\pm$ 0.102 χ^2 /NDF: 5825467.6/90

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -41.252 $\pm$ 0.304 χ^2/NDF : 5141.1/19

Left Out: -16.567 $\pm$ 0.275 χ^2/NDF :1931.2/24

Right Out: -4.696 $\pm$ 0.287 χ^2/NDF : 13593.7/22

Left In: 42.077 $\pm$ 0.289 χ^2/NDF :8332.3/22

Left: 11.318 $\pm$ 0.199 χ^2/NDF : 31846.5/47

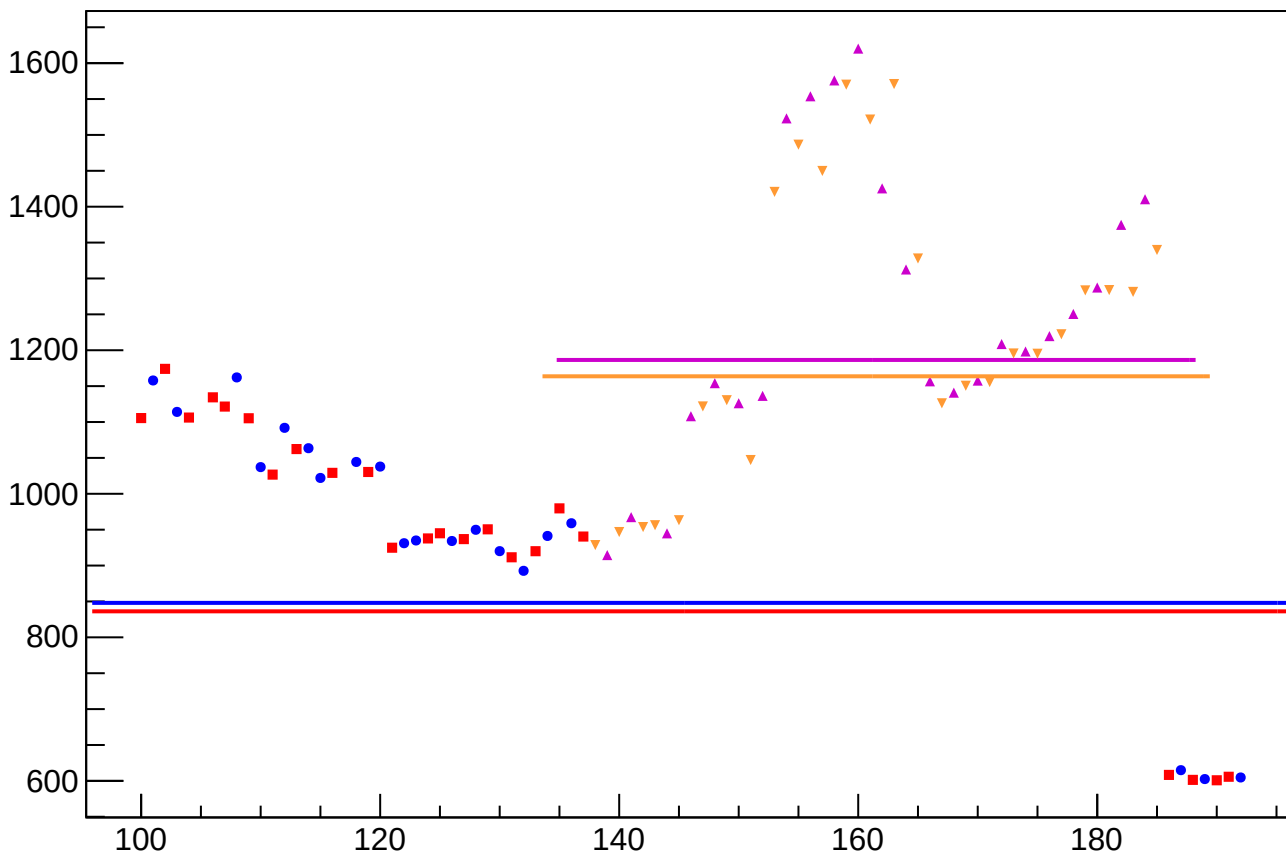
Right: -21.970 $\pm$ 0.209 χ^2/NDF : 26386.6/42

In: 2.438 $\pm$ 0.209 χ^2/NDF :52995.3/42

Out: -10.885 $\pm$ 0.199 χ^2/NDF :16415.2/47

All: -4.568 $\pm$ 0.144 χ^2/NDF : 71540.8/90

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 848.012 $\pm$ 0.215 χ^2 /NDF: 907206.9/19

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 836.217 $\pm$ 0.203 χ^2 /NDF: 1071325.0/22

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

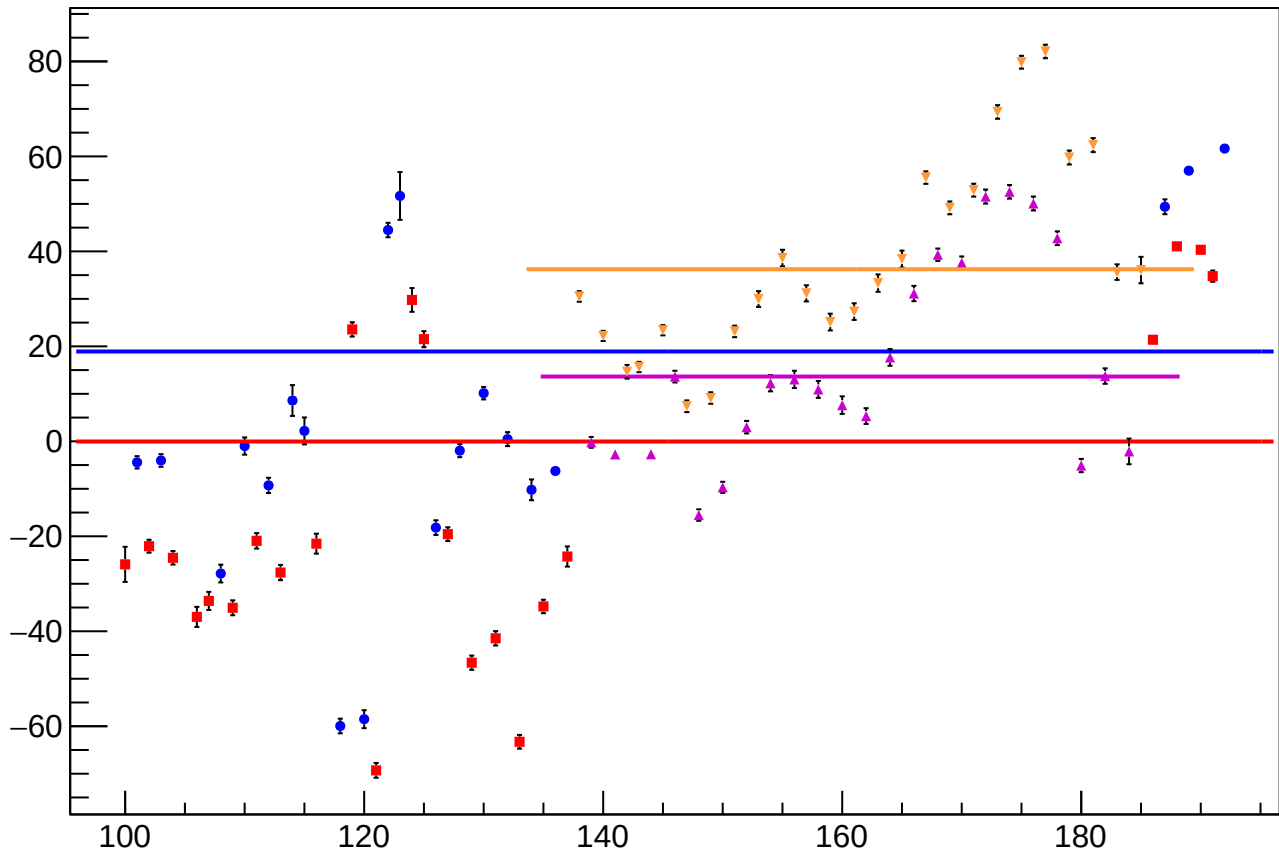
Right: 841.791 $\pm$ 0.148 χ^2 /NDF: 1980125.1/42

In: 1025.472 $\pm$ 0.148 χ^2 /NDF: 3044714.7/42

Out: 1006.945 $\pm$ 0.141 χ^2 /NDF: 3362334.2/47

All: 1015.728 $\pm$ 0.102 χ^2 /NDF: 6415288.4/90

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 18.915 $\pm$ 0.303 χ^2 /NDF: 15031.4/19

Left Out: 36.234 $\pm$ 0.280 χ^2 /NDF:5794.2/24

Right Out: -0.039 $\pm$ 0.288 χ^2 /NDF: 16416.6/22

Left In: 13.640 $\pm$ 0.293 χ^2 /NDF:5178.0/22

Left: 25.447 $\pm$ 0.202 χ^2 /NDF: 14084.0/47

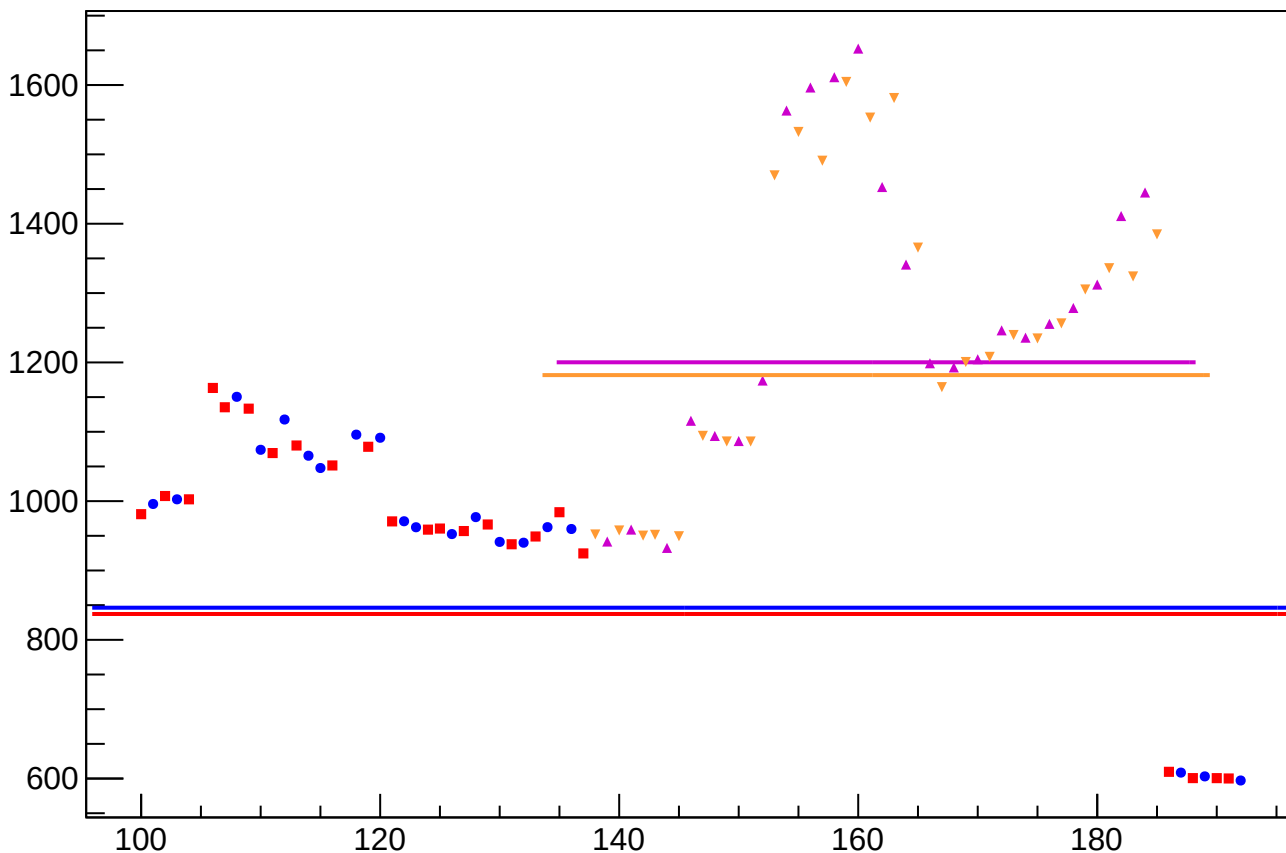
Right: 8.945 $\pm$ 0.209 χ^2 /NDF: 33507.4/42

In: 16.188 $\pm$ 0.211 χ^2 /NDF:20366.2/42

Out: 18.589 $\pm$ 0.201 χ^2 /NDF:30382.3/47

All: 17.446 $\pm$ 0.145 χ^2 /NDF: 50816.7/90

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 846.344 $\pm$ 0.214 χ^2 /NDF: 908534.6/19

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 837.282 $\pm$ 0.203 χ^2 /NDF: 1063124.1/22

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

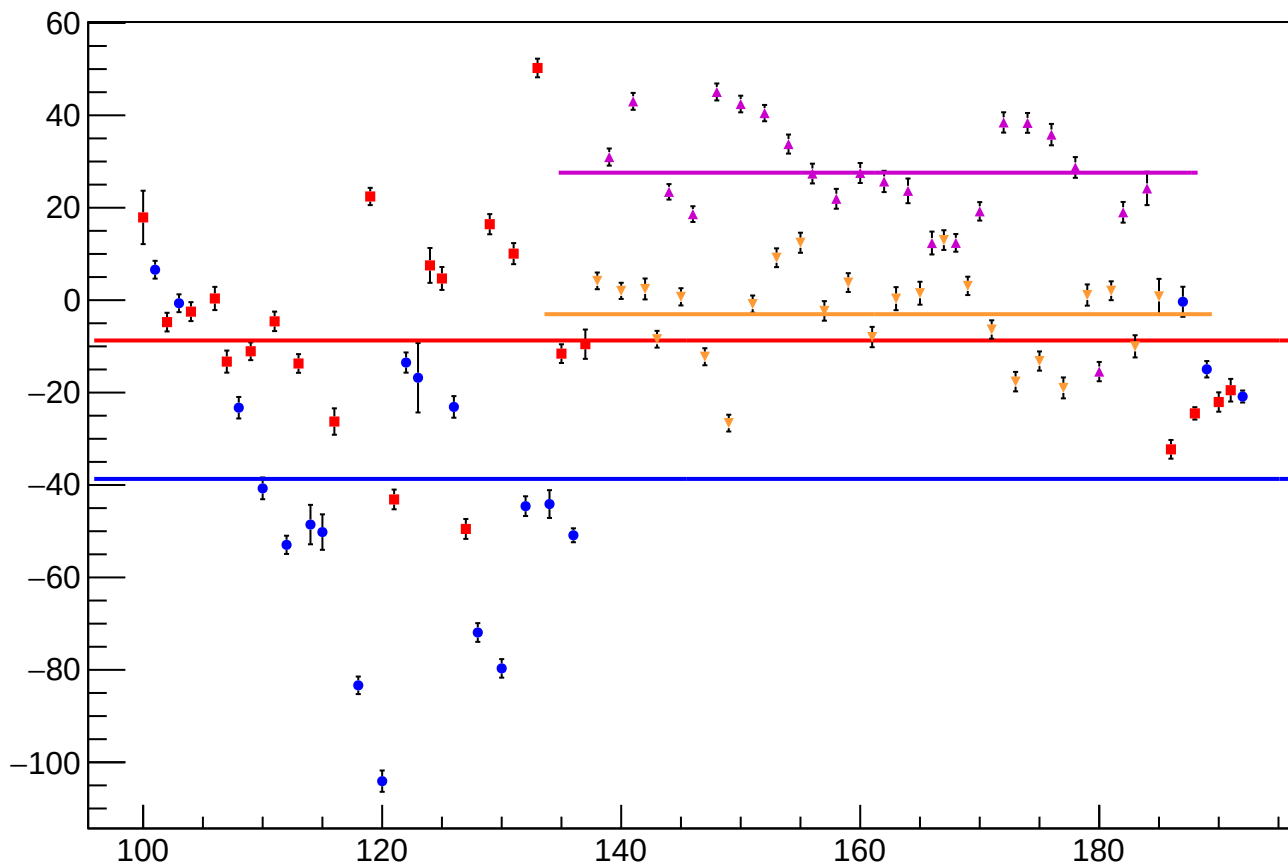
Right: 841.577 $\pm$ 0.147 χ^2 /NDF: 1972600.2/42

In: 1029.283 $\pm$ 0.149 χ^2 /NDF:3257715.7/42

Out: 1014.168 $\pm$ 0.142 χ^2 /NDF:3580362.5/47

All: 1021.359 $\pm$ 0.103 χ^2 /NDF: 6843482.8/90

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -38.682±/0.475 χ^2/NDF : 3868.7/19

Left Out: -3.037±/0.415 χ^2/NDF :555.6/24

Right Out: -8.726±/0.454 χ^2/NDF : 2438.6/22

Left In: 27.583±/0.429 χ^2/NDF :960.1/22

Left: 11.767±/0.298 χ^2/NDF : 4146.6/47

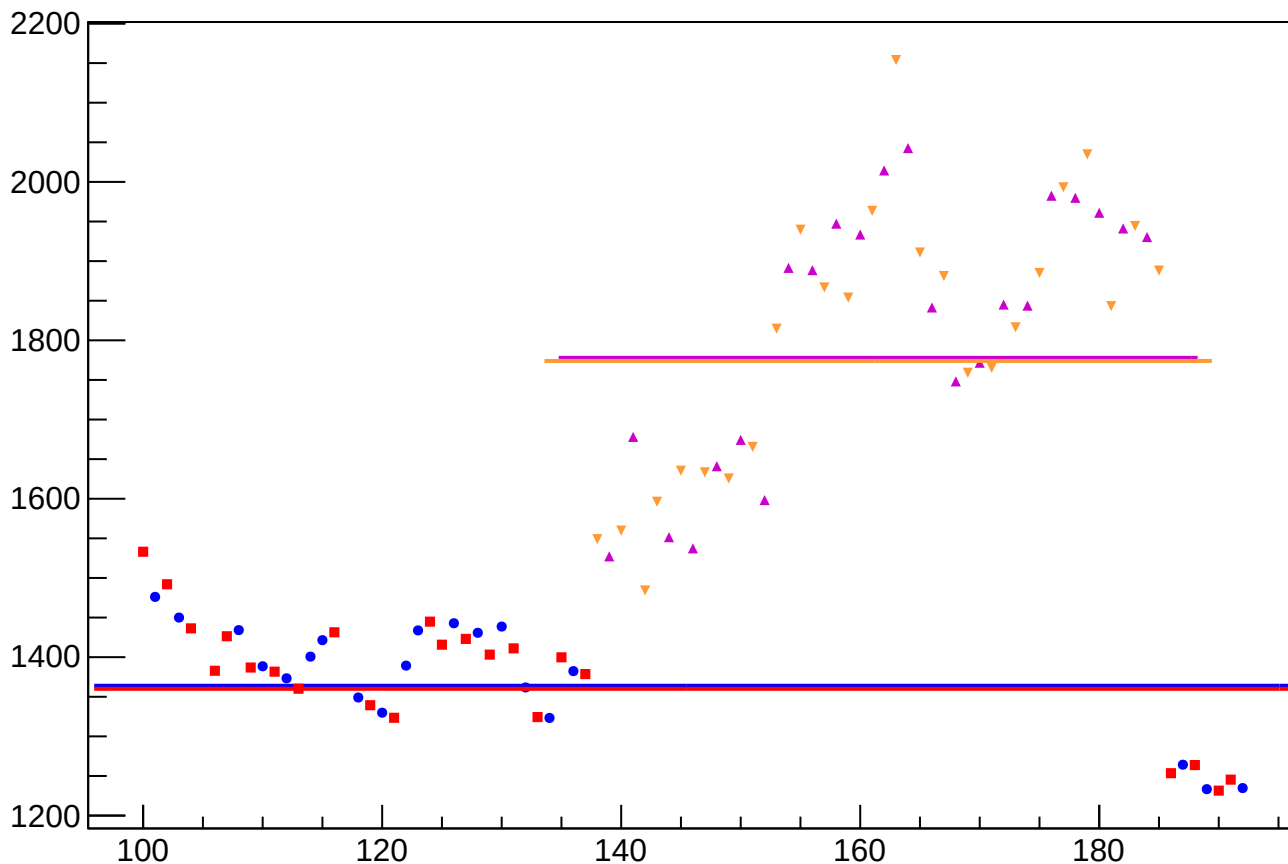
Right: -23.011±/0.328 χ^2/NDF : 8386.2/42

In: -2.175±/0.318 χ^2/NDF :15541.8/42

Out: -5.629±/0.306 χ^2/NDF :3079.8/47

All: -3.969±/0.221 χ^2/NDF : 18682.8/90

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1363.911 $\pm$ 0.336 χ^2 /NDF: 54923.9/19

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1360.069 $\pm$ 0.321 χ^2 /NDF: 52331.5/22

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

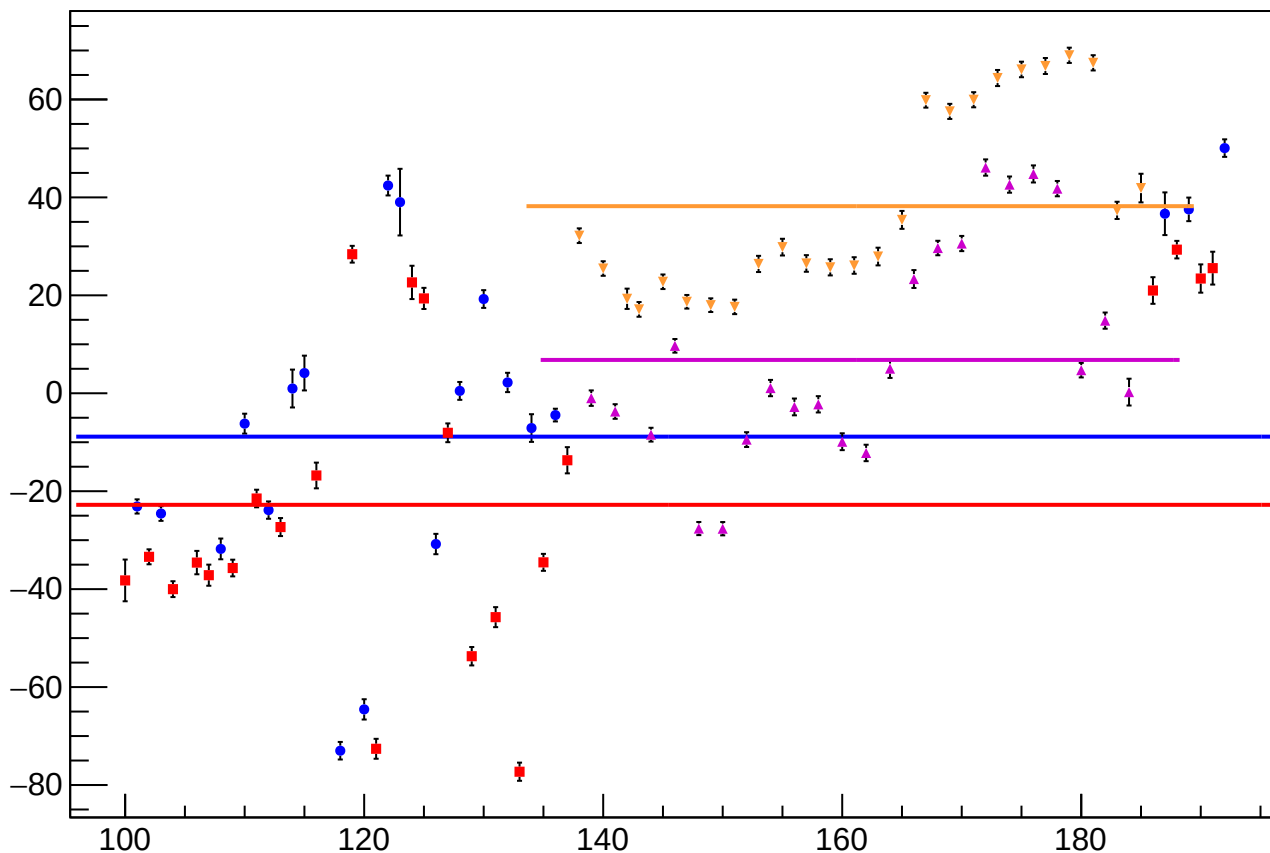
Right: 1361.901 $\pm$ 0.232 χ^2 /NDF: 107323.8/42

In: 1591.982 $\pm$ 0.225 χ^2 /NDF: 1190661.2/42

Out: 1585.381 $\pm$ 0.217 χ^2 /NDF: 1271416.3/47

All: 1588.553 $\pm$ 0.156 χ^2 /NDF: 2462523.9/90

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -8.858 ± 0.447 χ^2/NDF : 5094.8/19

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -22.782 ± 0.429 χ^2/NDF : 5310.4/22

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

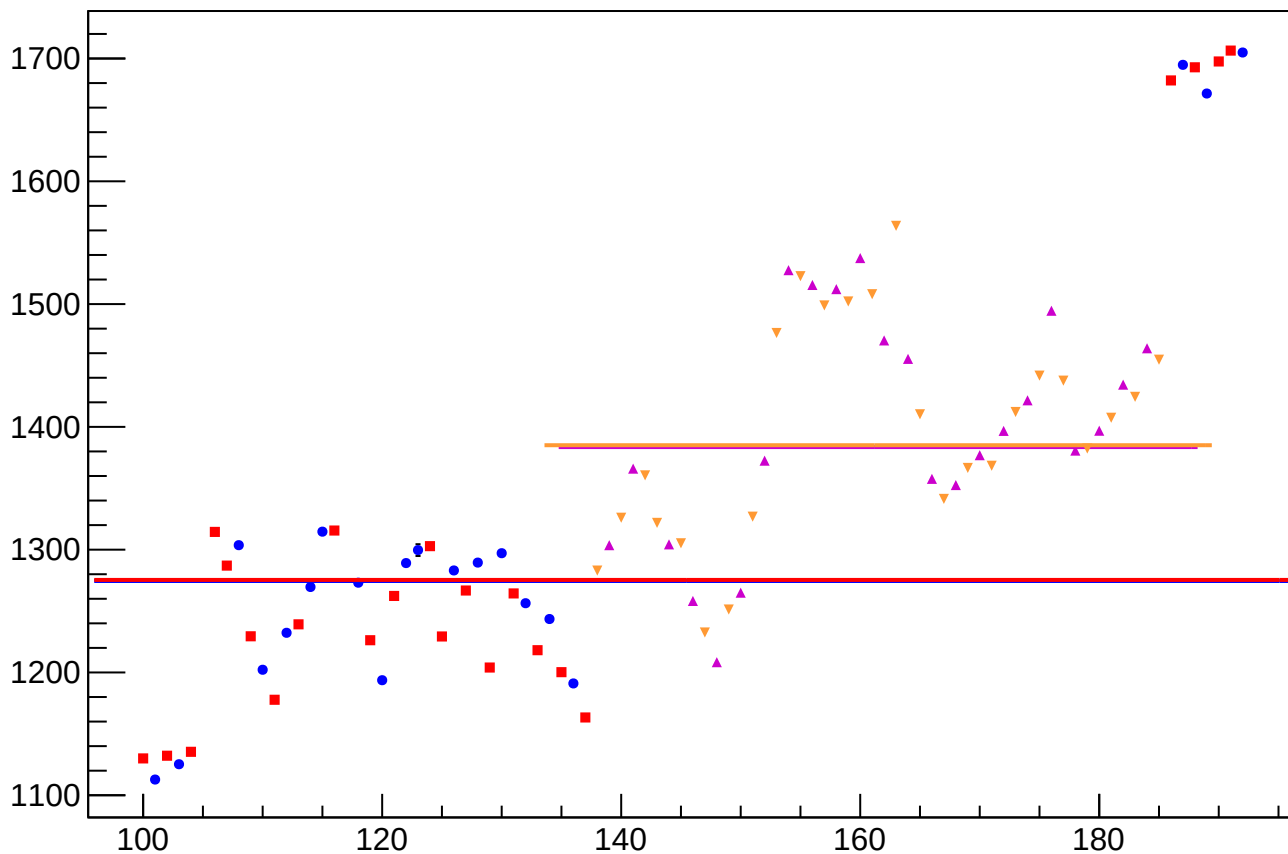
Right: -16.111 ± 0.309 χ^2/NDF : 10911.1/42

In: 1.214 ± 0.267 χ^2/NDF : 10379.7/42

Out: 16.077 ± 0.258 χ^2/NDF : 21731.3/47

All: 8.897 ± 0.186 χ^2/NDF : 33712.5/90

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1274.503 $\pm$ 0.316 χ^2 /NDF: 249948.0/19

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1275.361 $\pm$ 0.303 χ^2 /NDF: 288070.5/22

Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF:154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2 /NDF: 300718.5/47

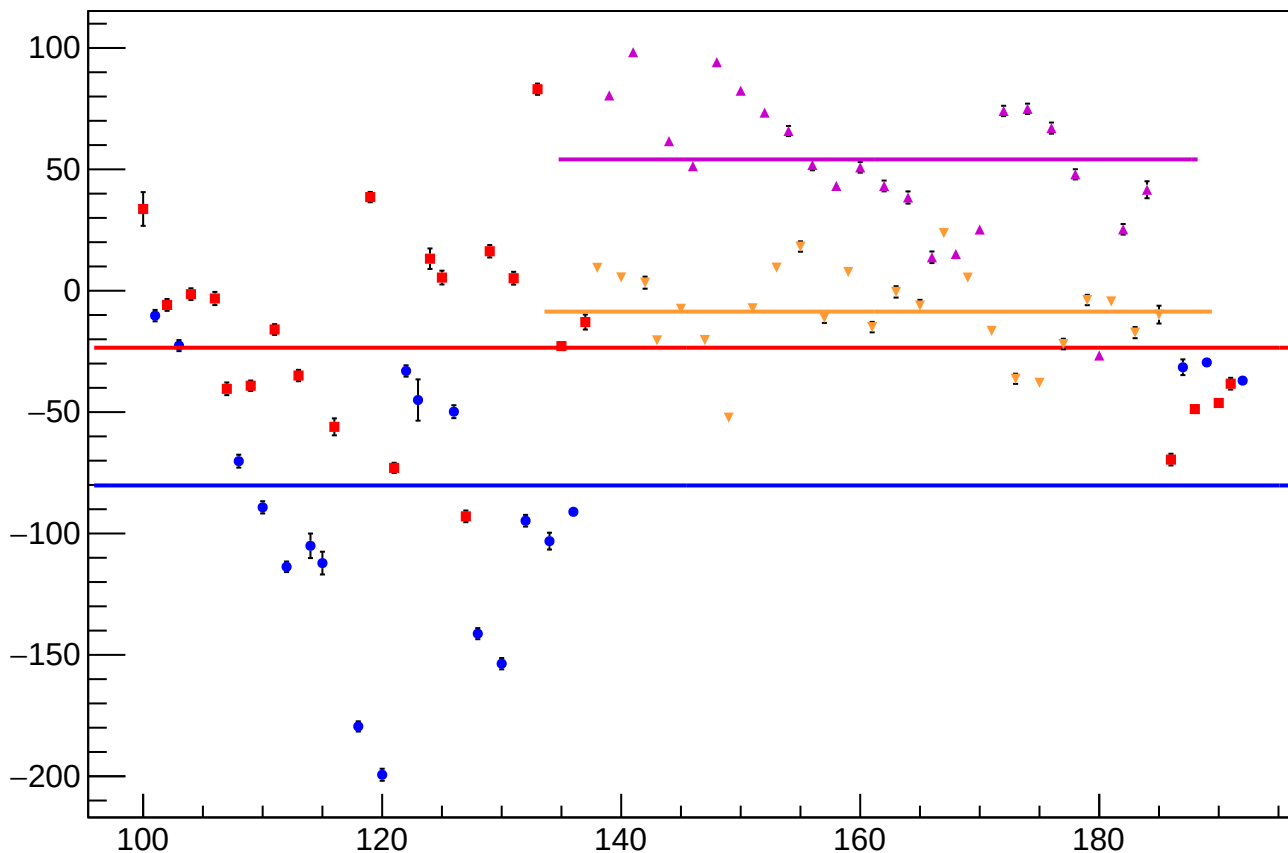
Right: 1274.950 $\pm$ 0.219 χ^2 /NDF: 538022.4/42

In: 1344.619 $\pm$ 0.189 χ^2 /NDF:481241.0/42

Out: 1345.258 $\pm$ 0.183 χ^2 /NDF:517589.5/47

All: 1344.949 $\pm$ 0.131 χ^2 /NDF: 998836.5/90

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -80.211 ± 0.513 χ^2/NDF : 10972.8/19

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -23.471 ± 0.495 χ^2/NDF : 6262.6/22

Left In: 54.089 ± 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 ± 0.295 χ^2/NDF : 17900.0/47

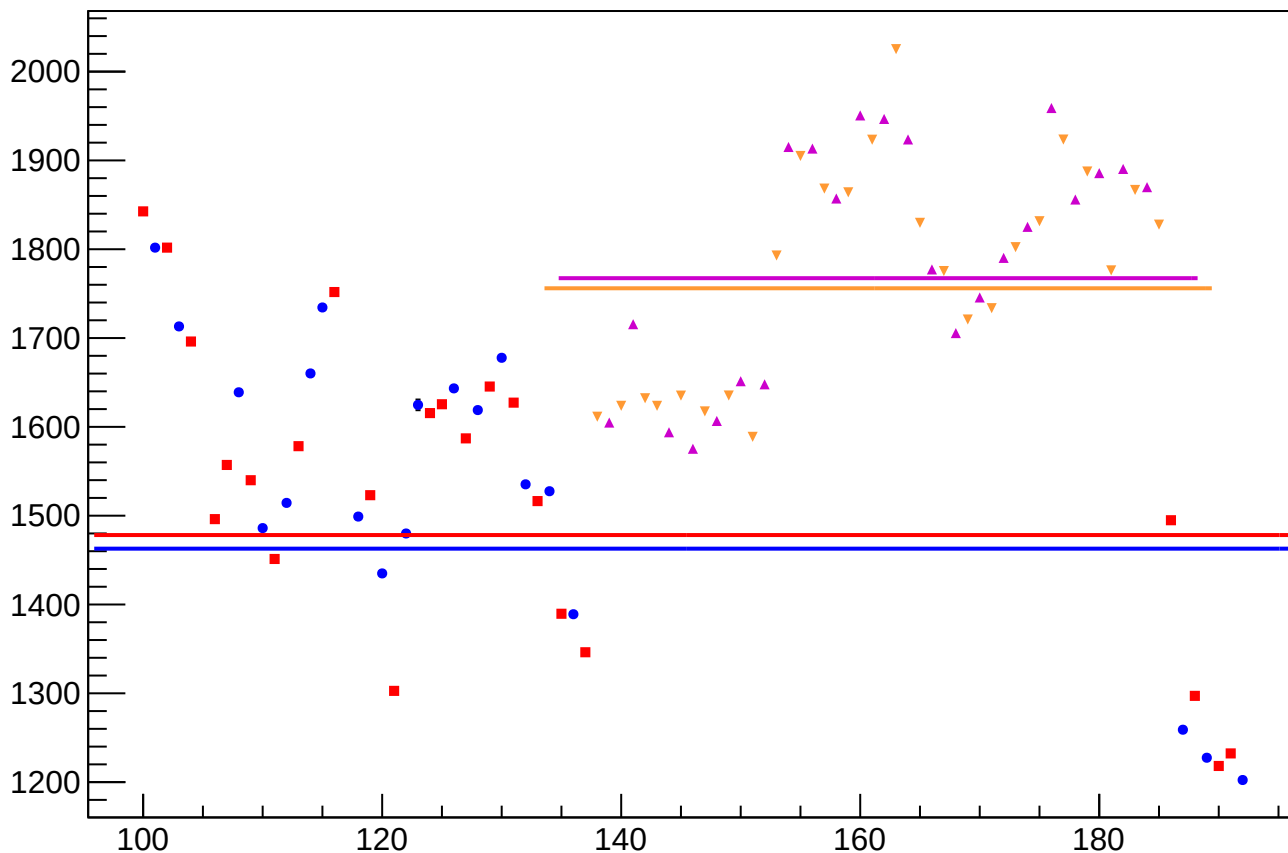
Right: -50.855 ± 0.356 χ^2/NDF : 23564.3/42

In: -0.668 ± 0.328 χ^2/NDF : 56285.3/42

Out: -14.651 ± 0.316 χ^2/NDF : 8727.2/47

All: -7.911 ± 0.227 χ^2/NDF : 65956.4/90

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1462.872 $\pm$ 0.363 χ^2 /NDF: 258353.3/19

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF:175762.3/24

Right Out: 1478.194 $\pm$ 0.350 χ^2 /NDF: 213174.0/22

Left In: 1767.410 $\pm$ 0.301 χ^2 /NDF:187958.2/22

Left: 1761.512 $\pm$ 0.209 χ^2 /NDF: 364461.2/47

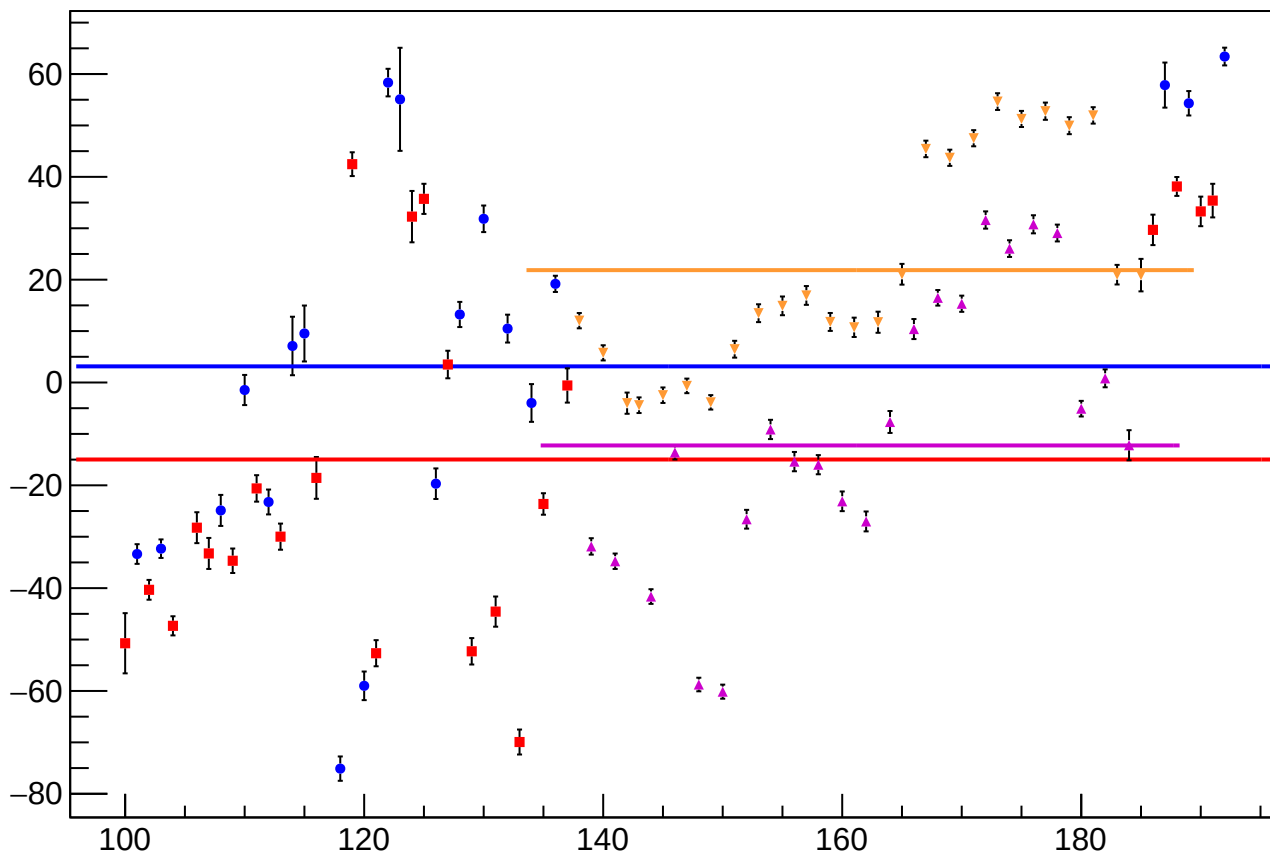
Right: 1470.800 $\pm$ 0.252 χ^2 /NDF: 472450.3/42

In: 1643.244 $\pm$ 0.232 χ^2 /NDF:863749.9/42

Out: 1643.040 $\pm$ 0.223 χ^2 /NDF:762055.9/47

All: 1643.138 $\pm$ 0.161 χ^2 /NDF: 1625806.2/90

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 3.137 $\pm$ 0.567 χ^2/NDF : 5156.3/19

Left Out: 21.856 $\pm$ 0.335 χ^2/NDF :4110.5/24

Right Out: -14.978 $\pm$ 0.545 χ^2/NDF : 4393.2/22

Left In: -12.246 $\pm$ 0.347 χ^2/NDF :6781.6/22

Left: 5.391 $\pm$ 0.241 χ^2/NDF : 15885.7/47

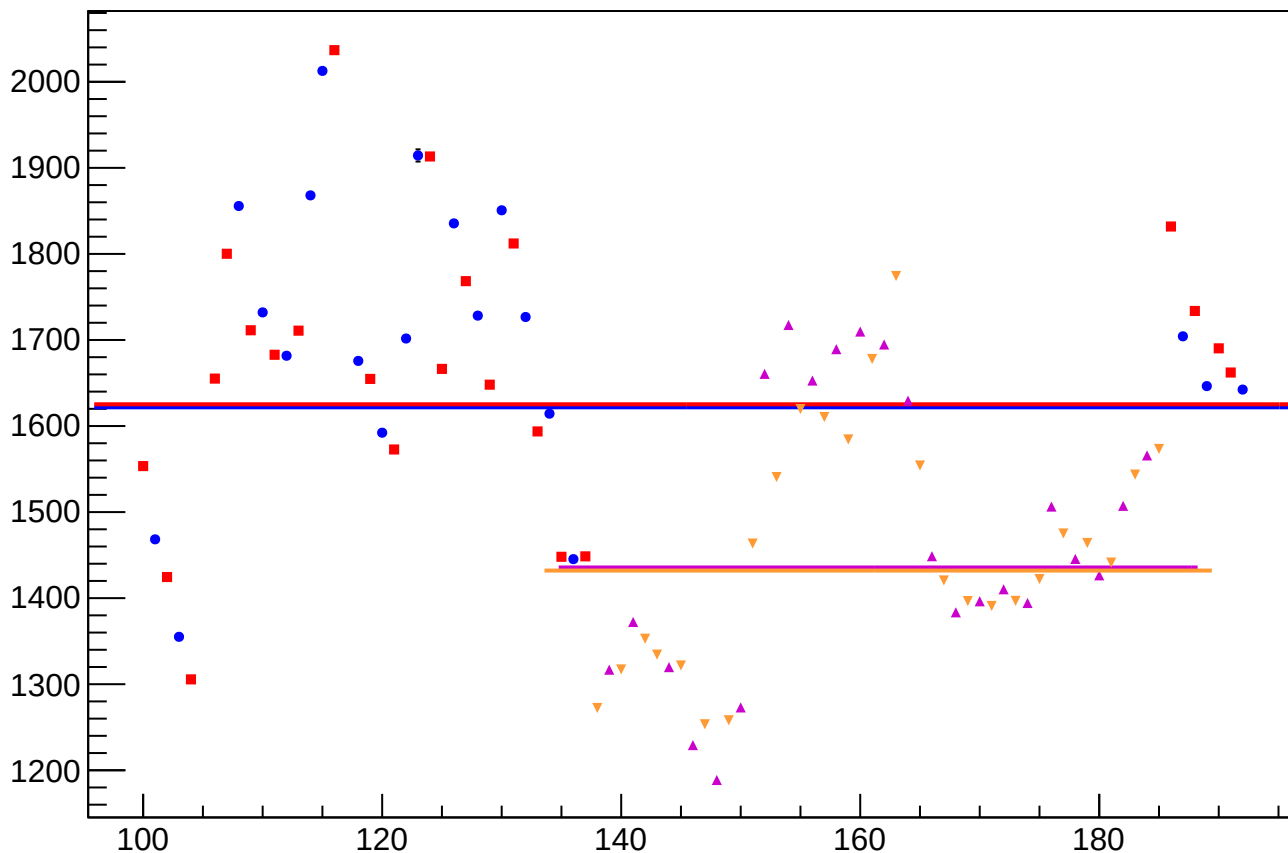
Right: -6.288 $\pm$ 0.393 χ^2/NDF : 10079.9/42

In: -8.058 $\pm$ 0.296 χ^2/NDF :12472.8/42

Out: 11.736 $\pm$ 0.286 χ^2/NDF :11818.8/47

All: 2.196 $\pm$ 0.206 χ^2/NDF : 26607.2/90

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1621.762 $\pm$ 0.401 χ^2 /NDF: 150590.3/19

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1625.265 $\pm$ 0.385 χ^2 /NDF: 174790.4/22

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

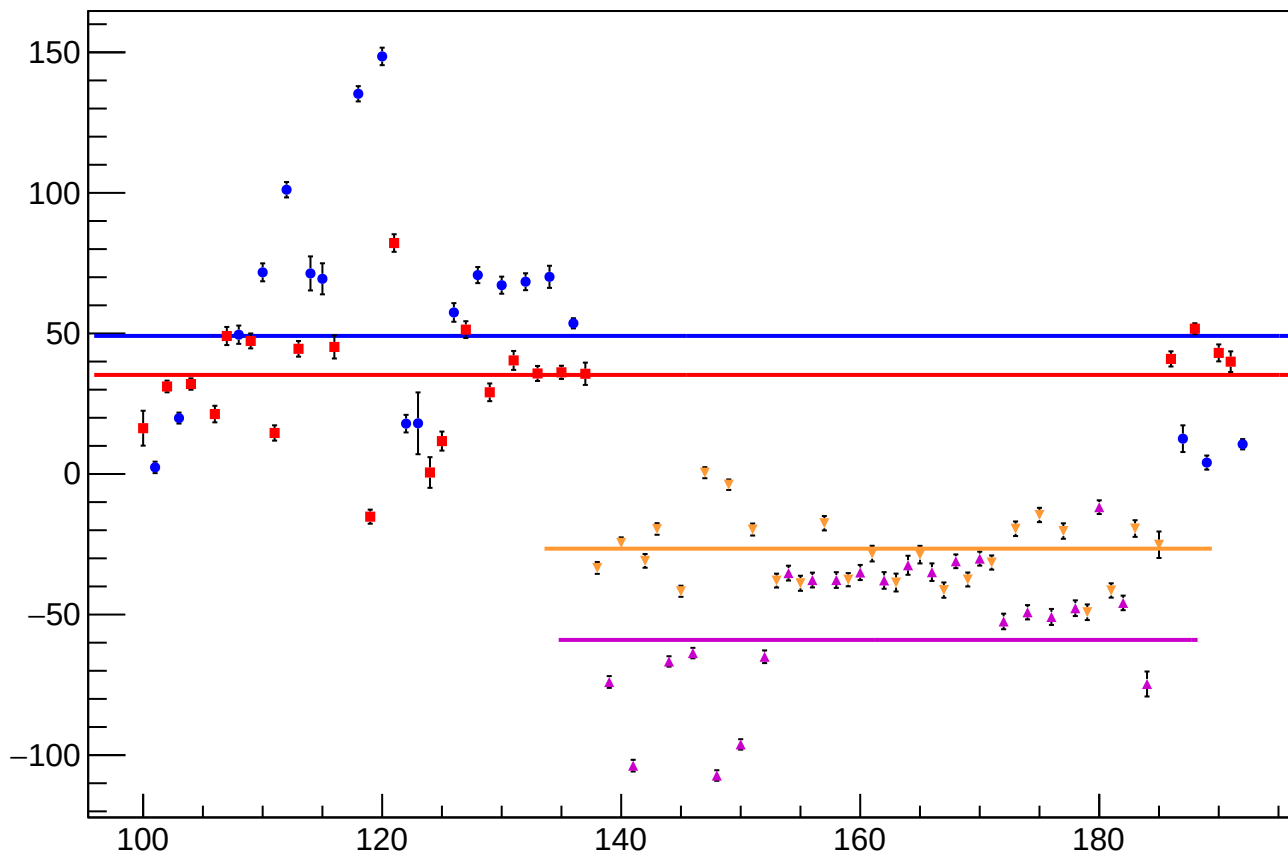
Right: 1623.585 $\pm$ 0.278 χ^2 /NDF: 325420.4/42

In: 1486.316 $\pm$ 0.209 χ^2 /NDF: 728021.0/42

Out: 1485.141 $\pm$ 0.202 χ^2 /NDF: 654569.6/47

All: 1485.707 $\pm$ 0.145 χ^2 /NDF: 1382606.9/90

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 49.124 ± 0.628 $\chi^2/\text{NDF}: 4317.8/19$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: 35.242 ± 0.594 $\chi^2/\text{NDF}: 990.4/22$

Left In: -59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

Left: -42.178 ± 0.351 $\chi^2/\text{NDF}: 5632.2/47$

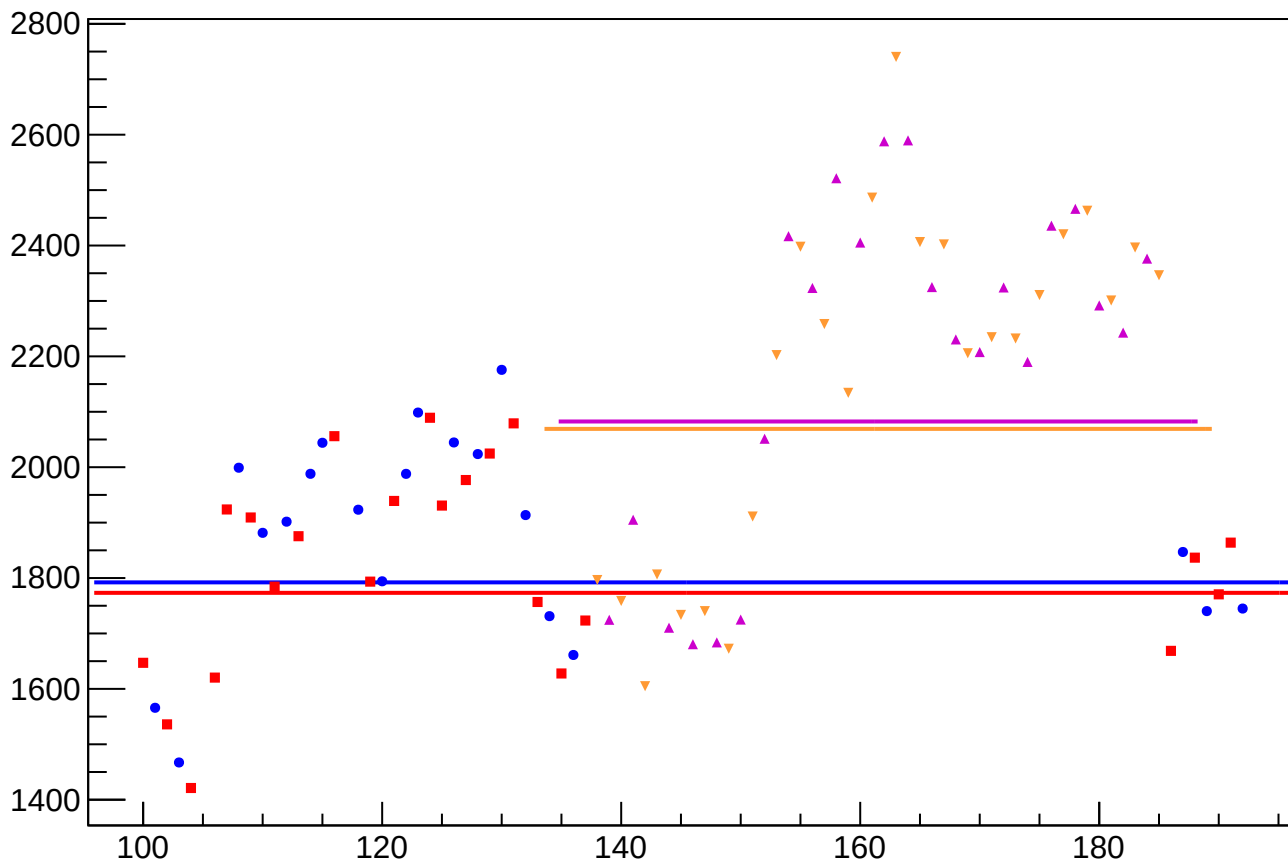
Right: 41.806 ± 0.432 $\chi^2/\text{NDF}: 5566.2/42$

In: -16.369 ± 0.394 $\chi^2/\text{NDF}: 25082.9/42$

Out: -1.678 ± 0.377 $\chi^2/\text{NDF}: 8166.6/47$

All: -8.699 ± 0.272 $\chi^2/\text{NDF}: 33974.9/90$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1792.175 $\pm$ 0.444 χ^2/NDF : 186391.2/19

Left Out: 2069.146 $\pm$ 0.345 χ^2/NDF : 799037.9/24

Right Out: 1773.292 $\pm$ 0.420 χ^2/NDF : 184246.3/22

Left In: 2082.497 $\pm$ 0.358 χ^2/NDF : 785304.0/22

Left: 2075.572 $\pm$ 0.248 χ^2/NDF : 1585062.9/47

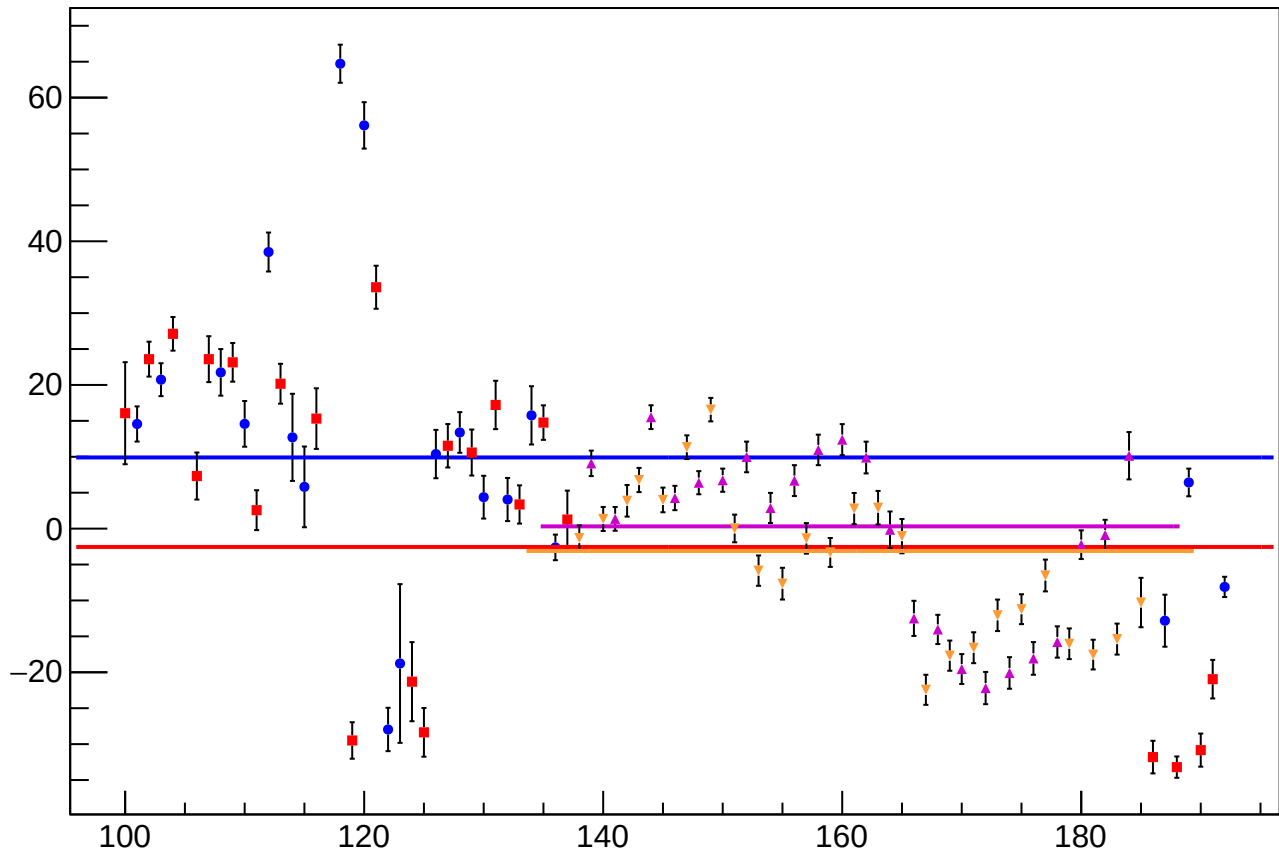
Right: 1782.220 $\pm$ 0.305 χ^2/NDF : 371592.1/42

In: 1968.008 $\pm$ 0.279 χ^2/NDF : 1230904.1/42

Out: 1950.049 $\pm$ 0.267 χ^2/NDF : 1279367.6/47

All: 1958.632 $\pm$ 0.193 χ^2/NDF : 2512439.7/90

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 9.908 ± 0.602 $\chi^2/\text{NDF}: 1215.2/19$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: -2.552 ± 0.573 $\chi^2/\text{NDF}: 1786.8/22$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

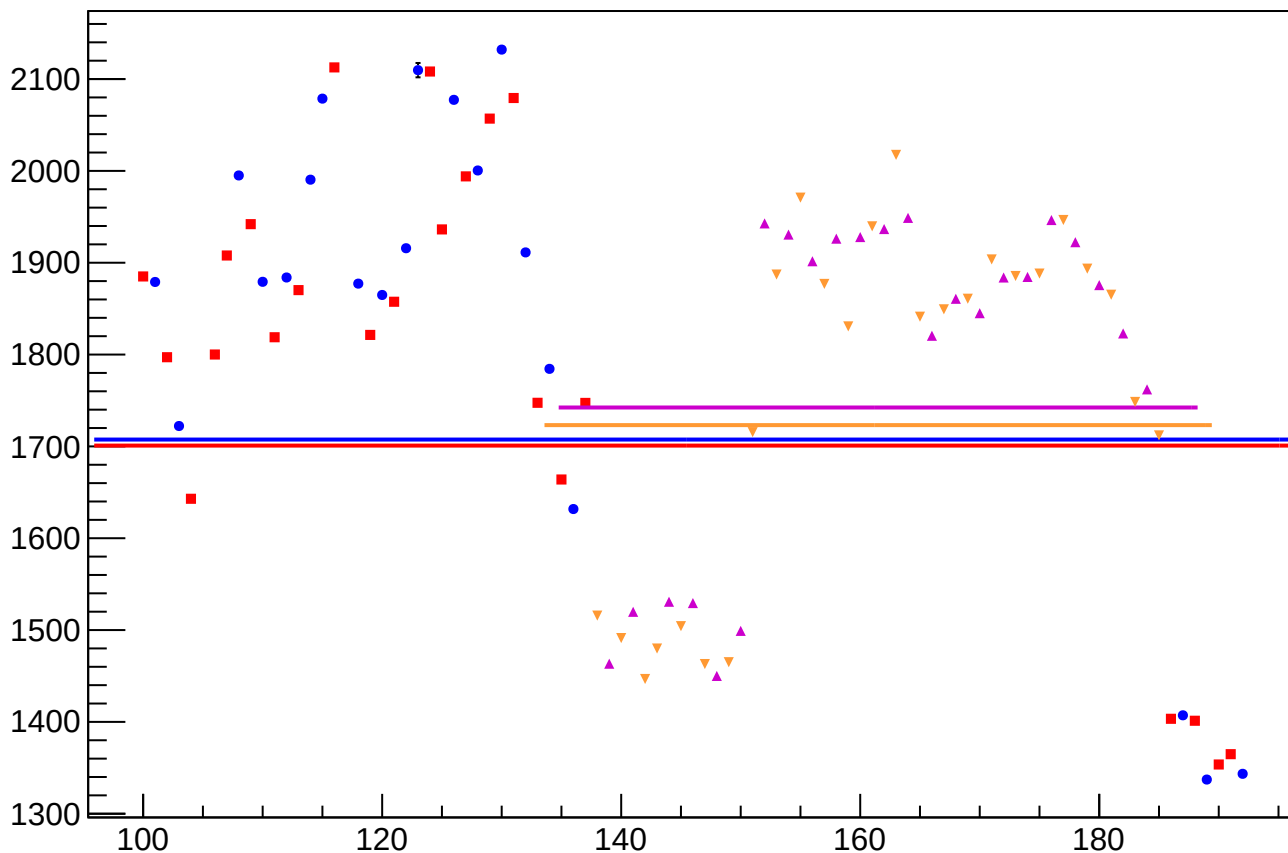
Right: 3.370 ± 0.415 $\chi^2/\text{NDF}: 3227.0/42$

In: 3.466 ± 0.345 $\chi^2/\text{NDF}: 2122.5/42$

Out: -2.926 ± 0.330 $\chi^2/\text{NDF}: 2431.2/47$

All: 0.131 ± 0.239 $\chi^2/\text{NDF}: 4732.8/90$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1707.453 ± 0.425 $\chi^2/\text{NDF}: 398463.1/19$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1700.880 ± 0.405 $\chi^2/\text{NDF}: 355387.2/22$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

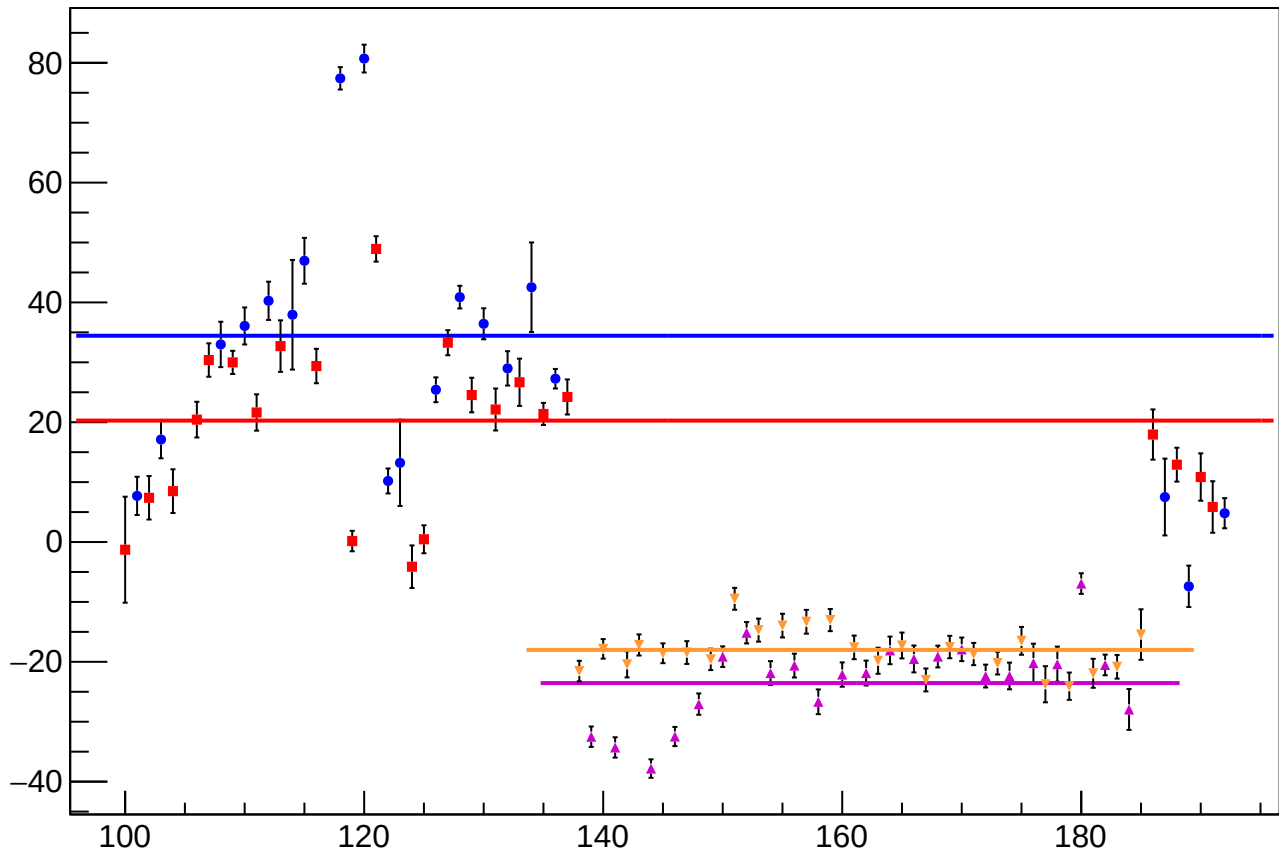
Right: 1704.004 ± 0.293 $\chi^2/\text{NDF}: 753975.5/42$

In: 1730.881 ± 0.244 $\chi^2/\text{NDF}: 838821.1/42$

Out: 1715.756 ± 0.234 $\chi^2/\text{NDF}: 834850.1/47$

All: 1722.989 ± 0.169 $\chi^2/\text{NDF}: 1675677.0/90$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 34.437 $\pm$ 0.607 χ^2/NDF : 1542.2/19

Left Out: -18.007 $\pm$ 0.397 χ^2/NDF : 73.8/24

Right Out: 20.273 $\pm$ 0.578 χ^2/NDF : 596.2/22

Left In: -23.544 $\pm$ 0.406 χ^2/NDF : 346.7/22

Left: -20.714 $\pm$ 0.284 χ^2/NDF : 515.7/47

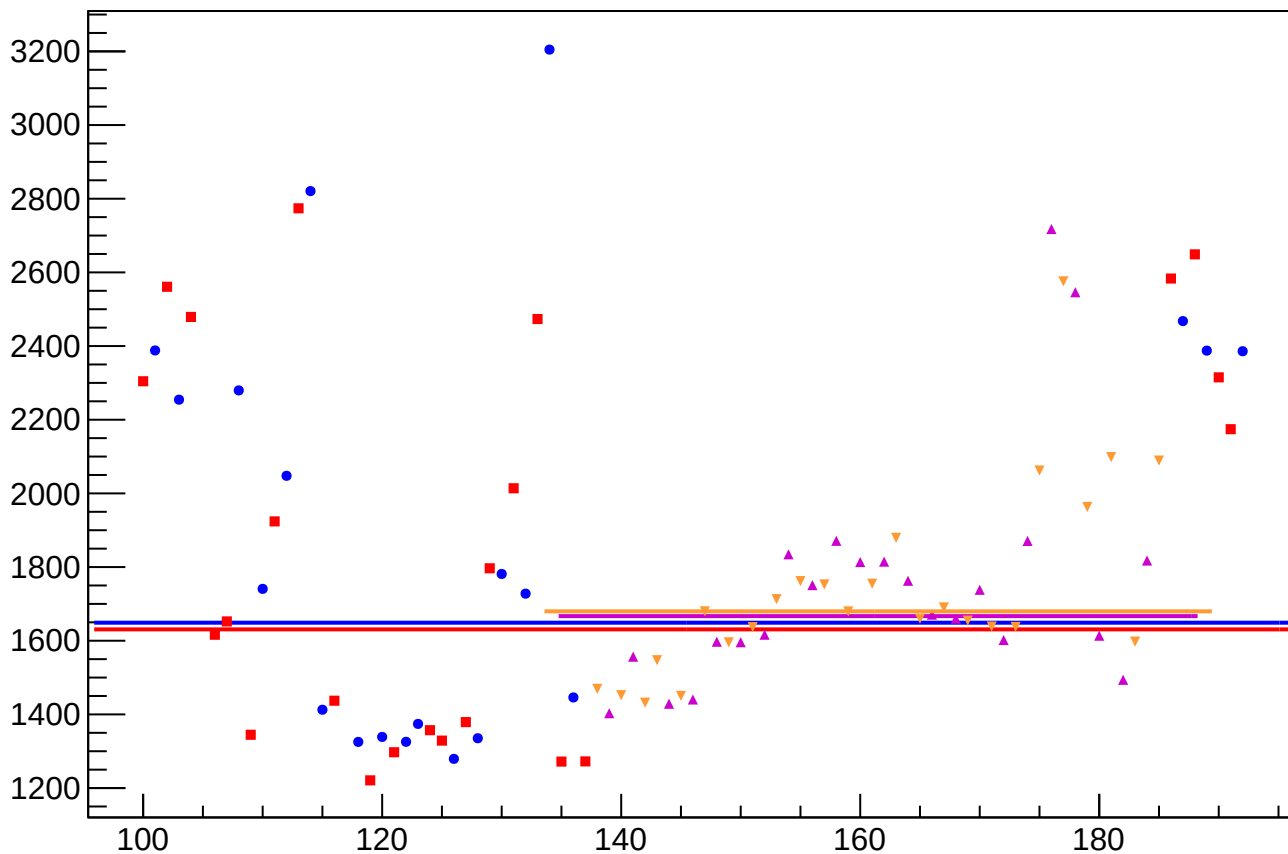
Right: 27.014 $\pm$ 0.419 χ^2/NDF : 2424.0/42

In: -5.631 $\pm$ 0.337 χ^2/NDF : 8200.5/42

Out: -5.755 $\pm$ 0.327 χ^2/NDF : 3650.4/47

All: -5.695 $\pm$ 0.235 χ^2/NDF : 11851.1/90

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1648.984 $\pm$ 0.429 χ^2 /NDF: 995480.5/19

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1630.832 $\pm$ 0.409 χ^2 /NDF: 1384832.0/22

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2 /NDF: 1174835.7/47

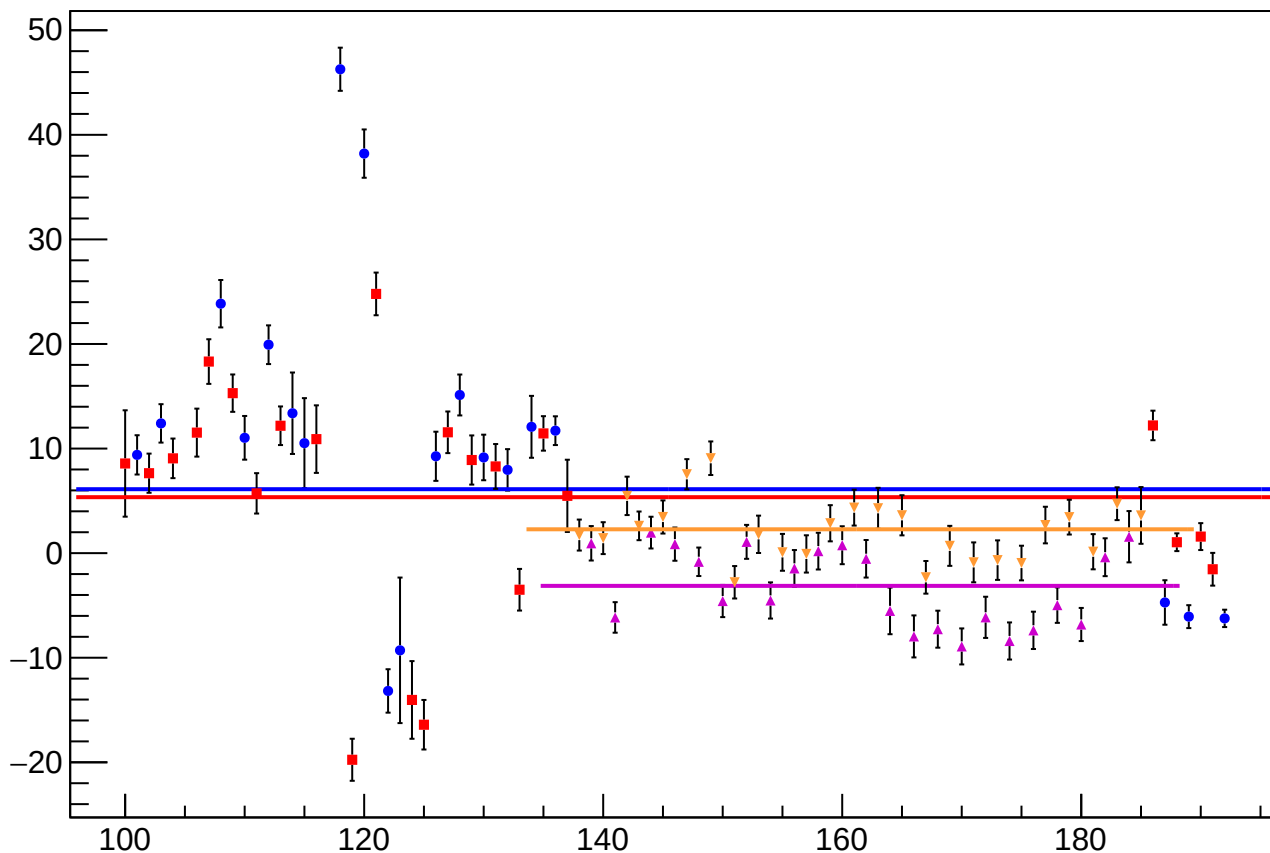
Right: 1639.471 $\pm$ 0.296 χ^2 /NDF: 2381250.6/42

In: 1661.309 $\pm$ 0.238 χ^2 /NDF: 1647665.6/42

Out: 1664.137 $\pm$ 0.231 χ^2 /NDF: 1917387.3/47

All: 1662.766 $\pm$ 0.166 χ^2 /NDF: 3565125.4/90

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 6.115 ± 0.403 χ^2/NDF : 1221.9/19

Left Out: 2.280 ± 0.338 χ^2/NDF : 75.6/24

Right Out: 5.351 ± 0.379 χ^2/NDF : 580.6/22

Left In: -3.129 ± 0.358 χ^2/NDF : 103.4/22

Left: -0.274 ± 0.246 χ^2/NDF : 299.7/47

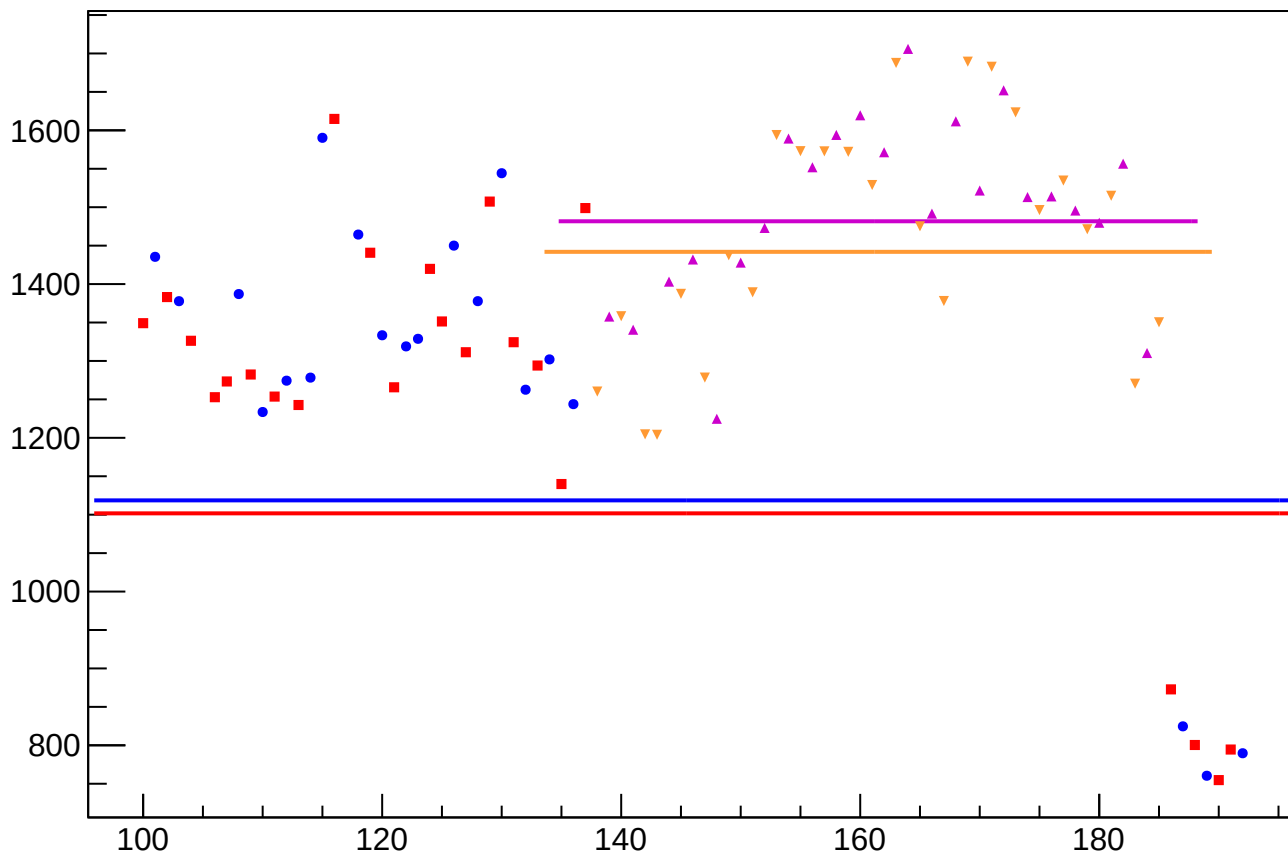
Right: 5.709 ± 0.276 χ^2/NDF : 1804.4/42

In: 0.939 ± 0.268 χ^2/NDF : 1619.2/42

Out: 3.644 ± 0.252 χ^2/NDF : 692.8/47

All: 2.371 ± 0.184 χ^2/NDF : 2366.1/90

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1118.623 $\pm$ 0.285 χ^2/NDF : 1017903.2/19

Left Out: 1441.951 $\pm$ 0.239 χ^2/NDF : 370617.4/24

Right Out: 1101.742 $\pm$ 0.268 χ^2/NDF : 977941.9/22

Left In: 1481.695 $\pm$ 0.253 χ^2/NDF : 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2/NDF : 592125.7/47

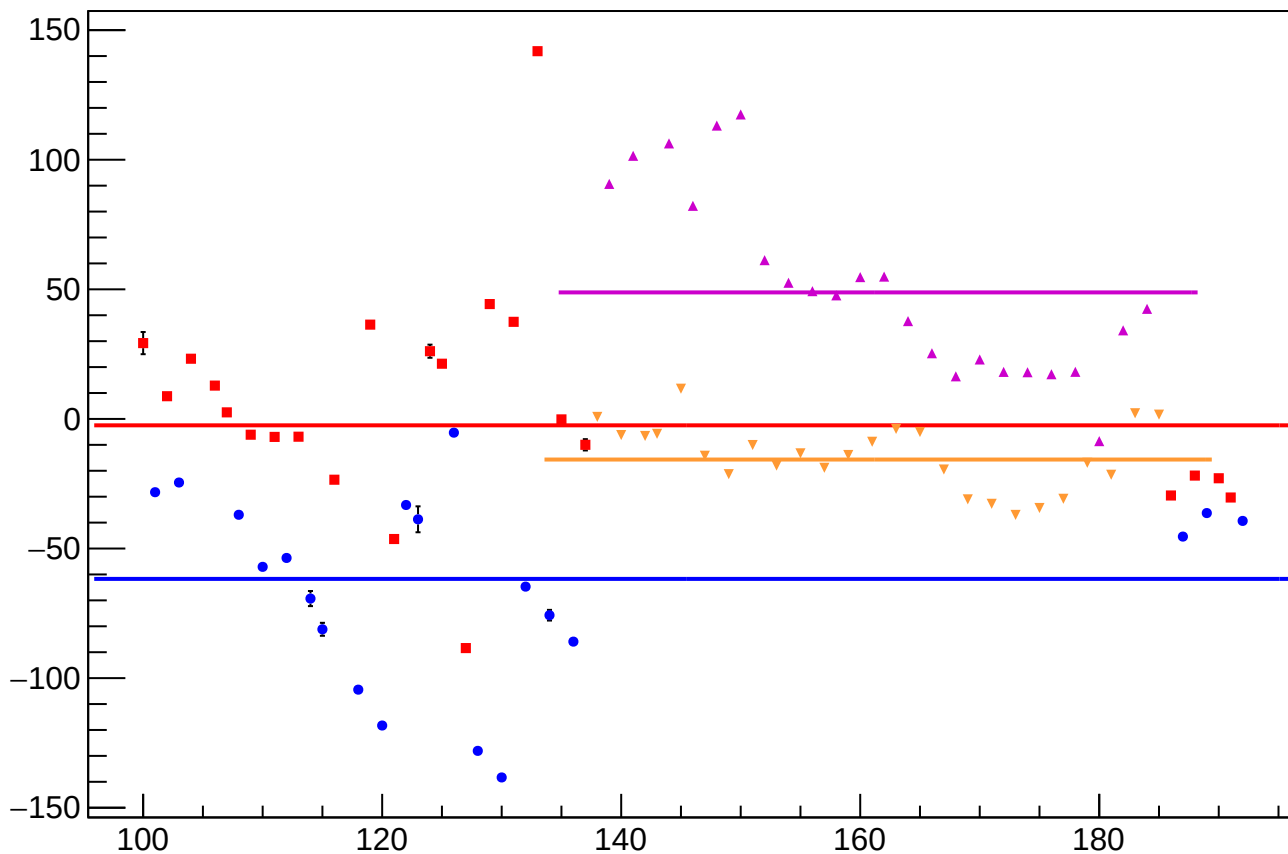
Right: 1109.646 $\pm$ 0.195 χ^2/NDF : 1997707.5/42

In: 1321.925 $\pm$ 0.189 χ^2/NDF : 2133432.6/42

Out: 1290.915 $\pm$ 0.178 χ^2/NDF : 2246806.3/47

All: 1305.502 $\pm$ 0.130 χ^2/NDF : 4394459.5/90

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -61.717 $\pm$ 0.298 χ^2/NDF : 14427.2/19

Left Out: -15.666 $\pm$ 0.212 χ^2/NDF : 3518.1/24

Right Out: -2.469 $\pm$ 0.280 χ^2/NDF : 21896.9/22

Left In: 48.812 $\pm$ 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 $\pm$ 0.152 χ^2/NDF : 73443.2/47

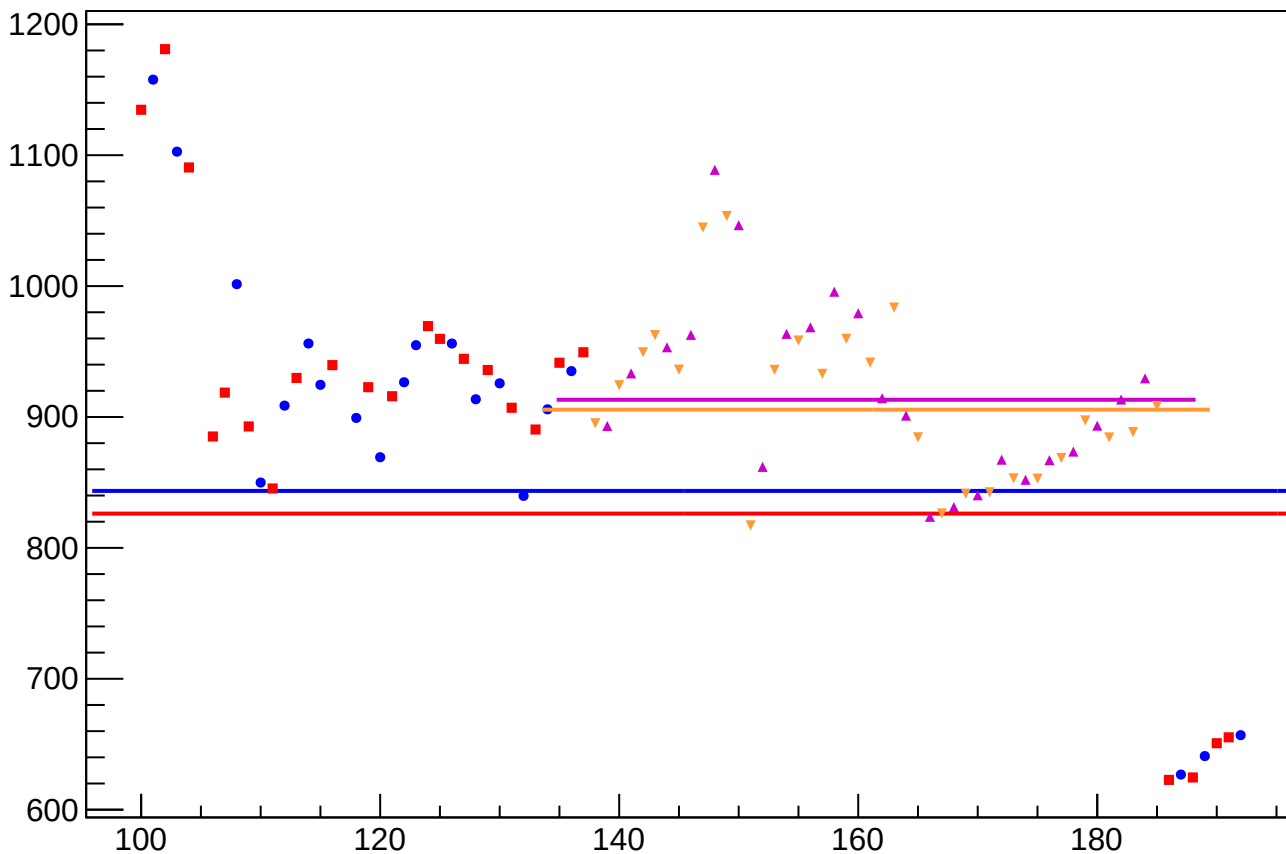
Right: -30.276 $\pm$ 0.204 χ^2/NDF : 57278.2/42

In: 9.878 $\pm$ 0.177 χ^2/NDF : 128702.9/42

Out: -10.880 $\pm$ 0.169 χ^2/NDF : 26826.7/47

All: -0.987 $\pm$ 0.122 χ^2/NDF : 162731.9/90

diff_bpm1i02X_rms vs Slug, Sign Corrected



Left: 909.225 $\pm$ 0.108 χ^2/NDF : 337749.0/47

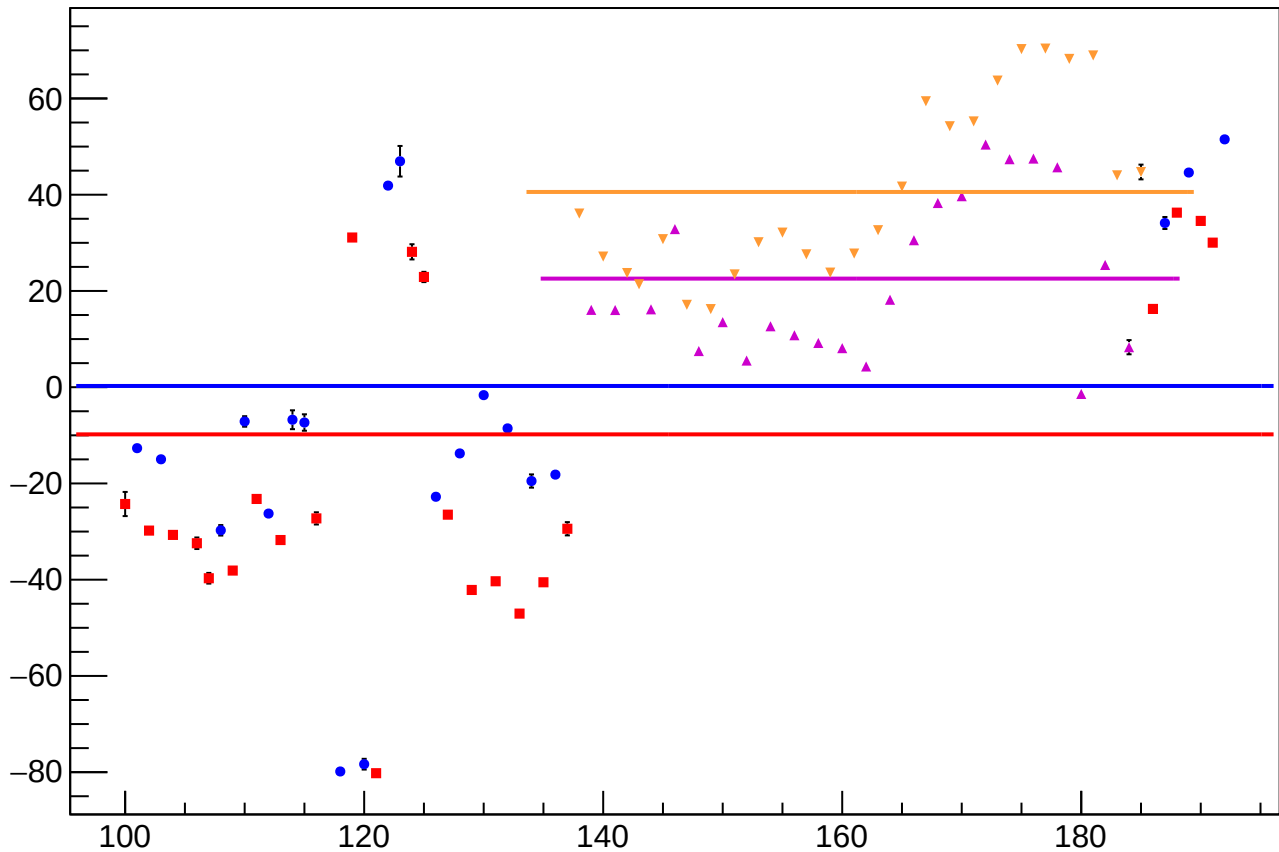
Right: 834.332 $\pm$ 0.144 χ^2/NDF : 1163441.6/42

In: 888.634 $\pm$ 0.125 χ^2/NDF : 756392.0/42

Out: 876.792 $\pm$ 0.119 χ^2/NDF : 912804.3/47

All: 882.435 $\pm$ 0.086 χ^2/NDF : 1673884.1/90

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 0.255 ± 0.205 χ^2/NDF : 34522.8/19

Left Out: 40.573 ± 0.168 χ^2/NDF : 12079.0/24

Right Out: -9.801 ± 0.196 χ^2/NDF : 32782.5/22

Left In: 22.565 ± 0.175 χ^2/NDF : 8167.7/22

Left: 31.959 ± 0.121 χ^2/NDF : 25752.7/47

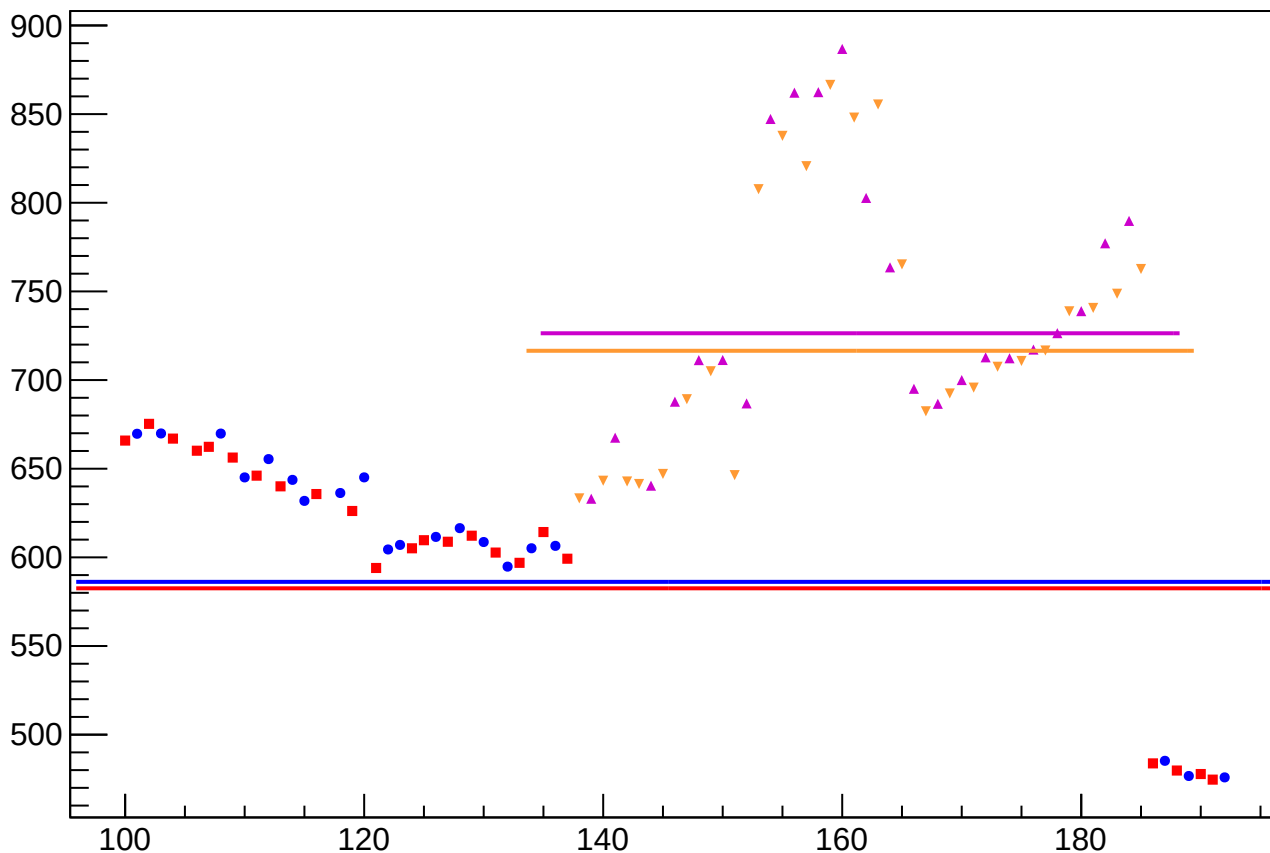
Right: -5.021 ± 0.142 χ^2/NDF : 68562.4/42

In: 13.167 ± 0.133 χ^2/NDF : 49514.9/42

Out: 19.205 ± 0.127 χ^2/NDF : 83070.9/47

All: 16.325 ± 0.092 χ^2/NDF : 133658.0/90

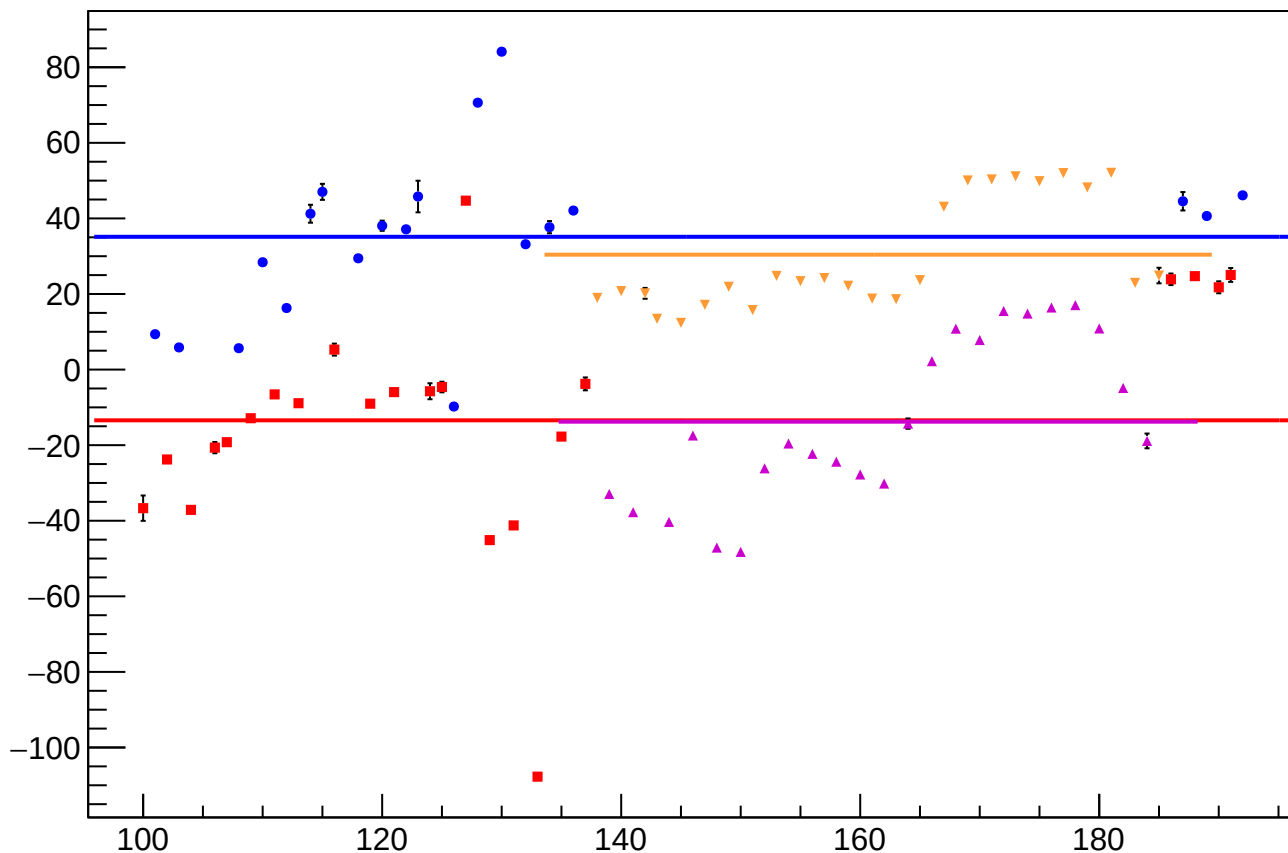
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 586.187 $\pm$ 0.145 χ^2 /NDF: 249203.7/19
 Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24
 Right Out: 582.536 $\pm$ 0.138 χ^2 /NDF: 278252.3/22
 Left In: 726.390 $\pm$ 0.124 χ^2 /NDF:289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47
 Right: 584.271 $\pm$ 0.100 χ^2 /NDF: 527787.4/42
 In: 667.329 $\pm$ 0.094 χ^2 /NDF:1078020.4/42
 Out: 659.684 $\pm$ 0.090 χ^2 /NDF:1161582.4/47
 All: 663.331 $\pm$ 0.065 χ^2 /NDF: 2243041.0/90

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 35.136 ± 0.279 $\chi^2/\text{NDF}: 6607.5/19$

Left Out: 30.408 ± 0.237 $\chi^2/\text{NDF}: 3808.0/24$

Right Out: -13.426 ± 0.269 $\chi^2/\text{NDF}: 14839.5/22$

Left In: -13.787 ± 0.246 $\chi^2/\text{NDF}: 7979.7/22$

Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$

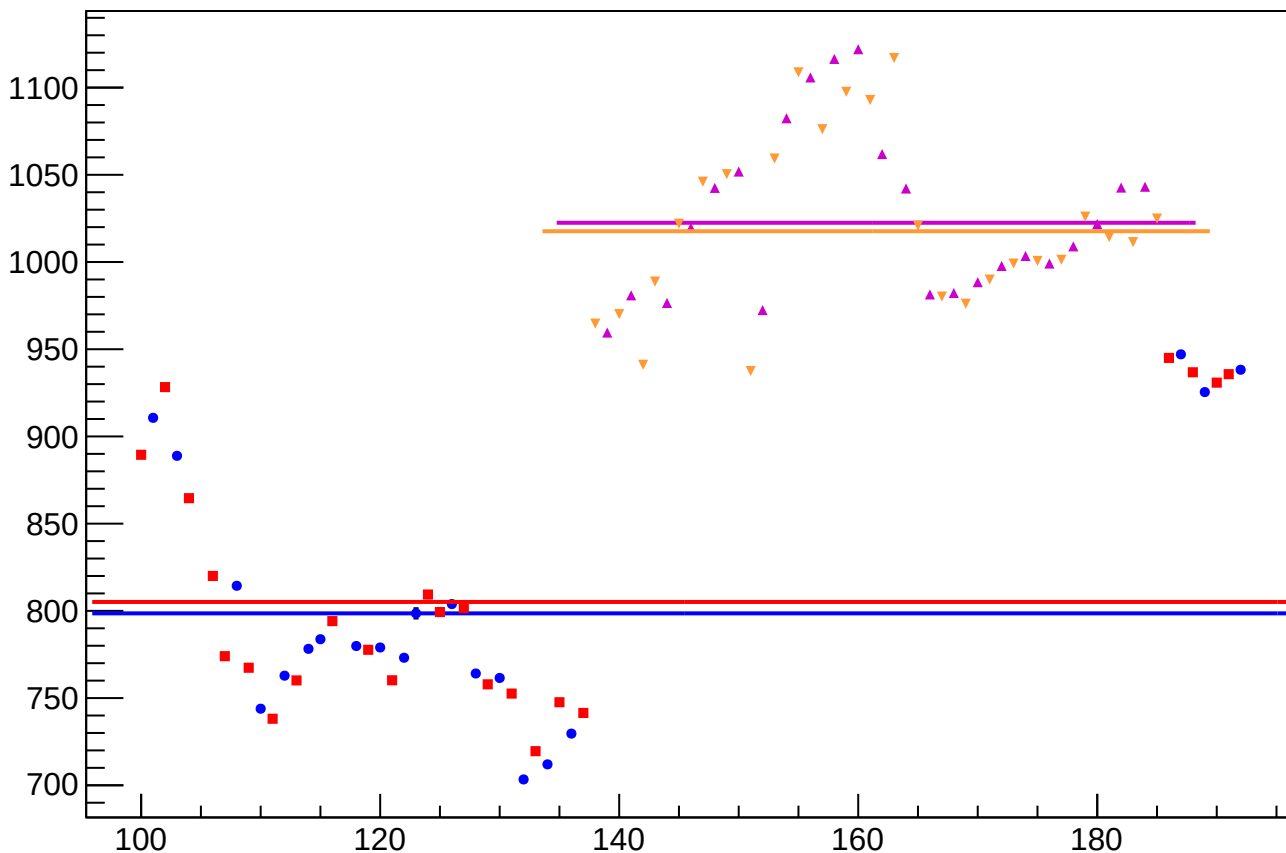
Right: 9.994 ± 0.194 $\chi^2/\text{NDF}: 37125.5/42$

In: 7.590 ± 0.184 $\chi^2/\text{NDF}: 31892.8/42$

Out: 11.243 ± 0.178 $\chi^2/\text{NDF}: 33554.1/47$

All: 9.480 ± 0.128 $\chi^2/\text{NDF}: 65649.9/90$

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 798.570 ± 0.197 $\chi^2/\text{NDF}: 143657.9/19$

Left Out: 1017.653 ± 0.168 $\chi^2/\text{NDF}: 83612.5/24$

Right Out: 805.113 ± 0.190 $\chi^2/\text{NDF}: 145771.1/22$

Left In: 1022.511 ± 0.174 $\chi^2/\text{NDF}: 69635.5/22$

Left: 1019.997 ± 0.121 $\chi^2/\text{NDF}: 153652.2/47$

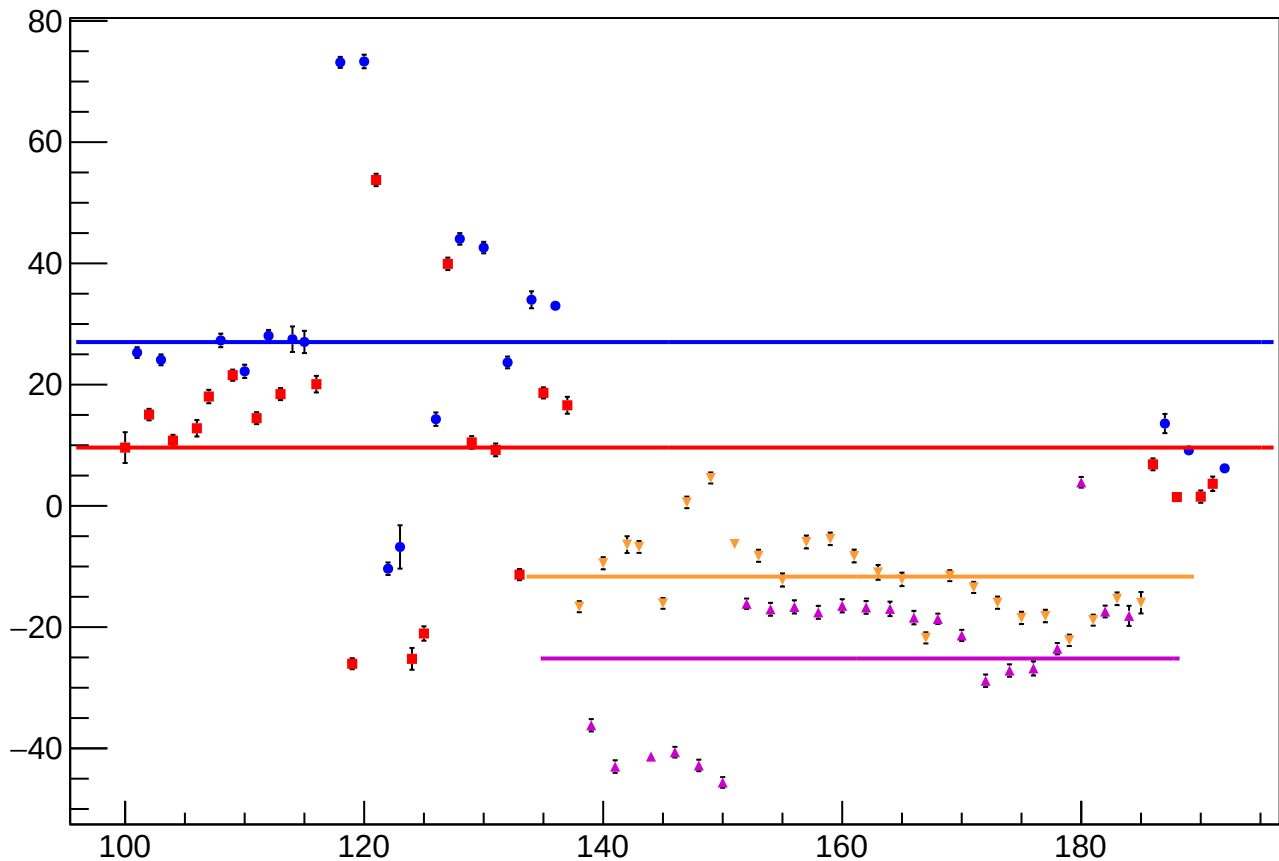
Right: 801.958 ± 0.137 $\chi^2/\text{NDF}: 289998.3/42$

In: 924.661 ± 0.130 $\chi^2/\text{NDF}: 938498.0/42$

Out: 924.723 ± 0.126 $\chi^2/\text{NDF}: 930304.5/47$

All: 924.693 ± 0.091 $\chi^2/\text{NDF}: 1868802.6/90$

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 27.021 ± 0.223 $\chi^2/\text{NDF}: 8230.6/19$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 9.622 ± 0.216 $\chi^2/\text{NDF}: 6643.0/22$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

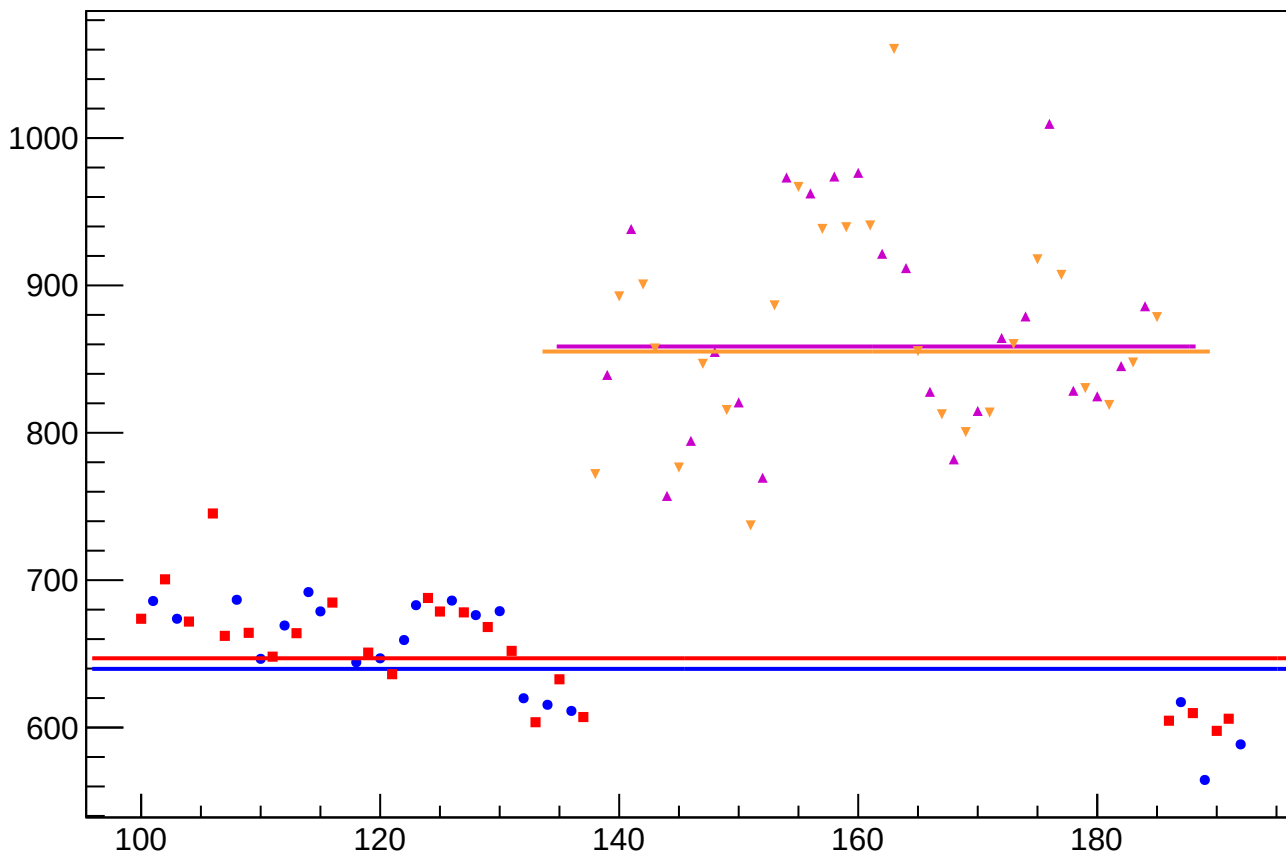
Right: 18.034 ± 0.155 $\chi^2/\text{NDF}: 18013.0/42$

In: -0.989 ± 0.152 $\chi^2/\text{NDF}: 41331.0/42$

Out: -1.819 ± 0.147 $\chi^2/\text{NDF}: 13014.7/47$

All: -1.418 ± 0.106 $\chi^2/\text{NDF}: 54361.1/90$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 639.797 $\pm$ 0.158 χ^2/NDF : 62828.3/19

Left Out: 855.131 $\pm$ 0.142 χ^2/NDF :233746.7/24

Right Out: 646.996 $\pm$ 0.153 χ^2/NDF : 51130.6/22

Left In: 858.563 $\pm$ 0.147 χ^2/NDF :239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2/NDF : 473049.9/47

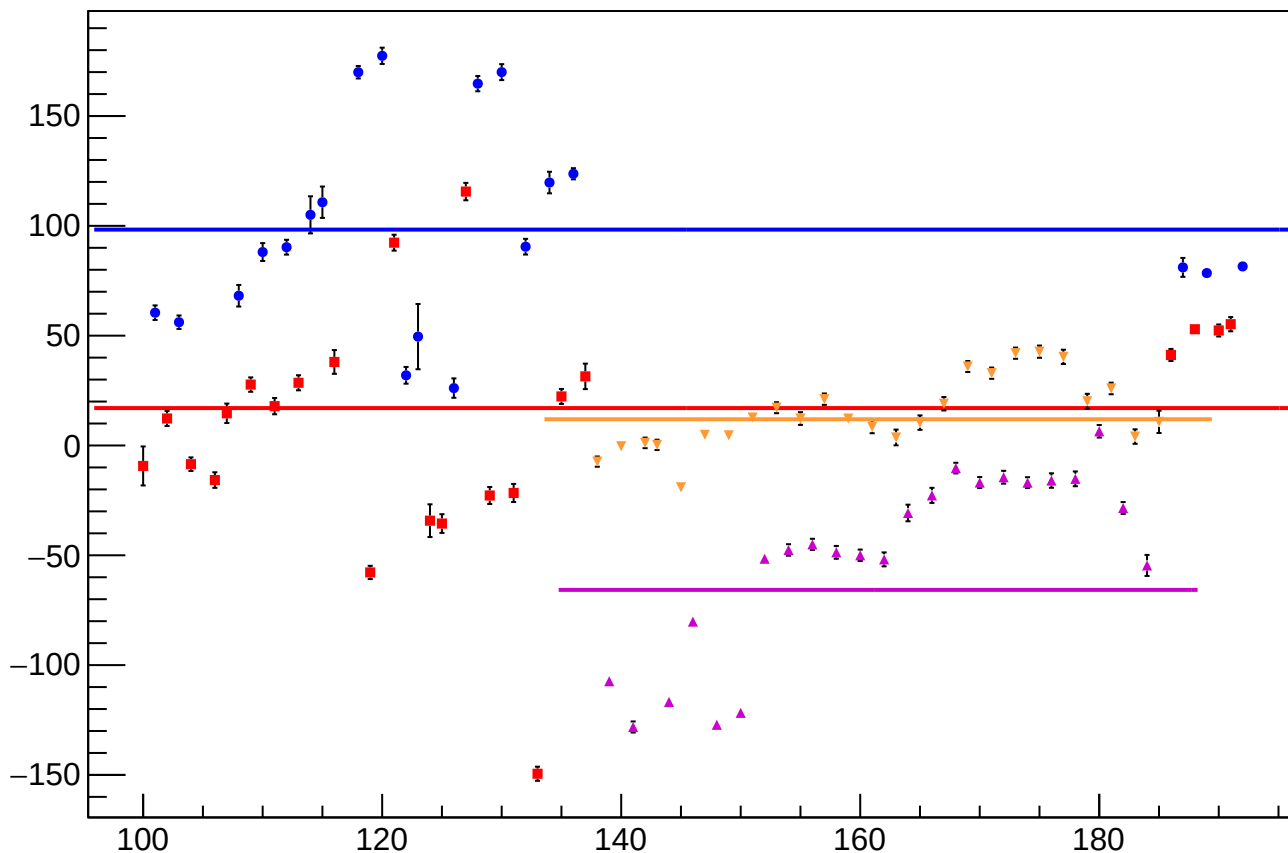
Right: 643.515 $\pm$ 0.110 χ^2/NDF : 115033.9/42

In: 757.196 $\pm$ 0.107 χ^2/NDF :1333183.9/42

Out: 758.866 $\pm$ 0.104 χ^2/NDF :1283851.9/47

All: 758.060 $\pm$ 0.075 χ^2/NDF : 2617160.8/90

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 98.291 ± 0.745 $\chi^2/\text{NDF}: 3122.7/19$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: 17.031 ± 0.712 $\chi^2/\text{NDF}: 5760.8/22$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

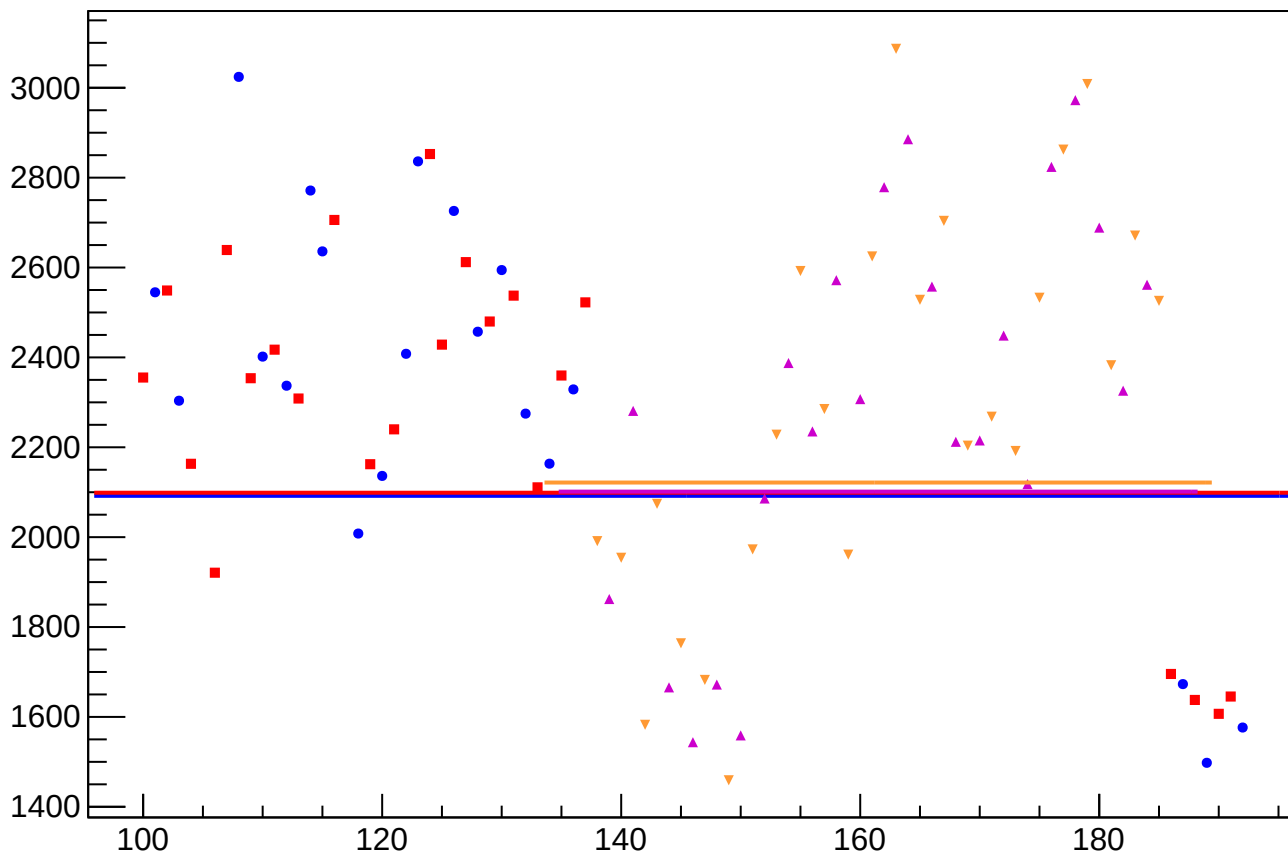
Right: 55.821 ± 0.515 $\chi^2/\text{NDF}: 15098.8/42$

In: -12.350 ± 0.425 $\chi^2/\text{NDF}: 43146.4/42$

Out: 13.644 ± 0.412 $\chi^2/\text{NDF}: 6771.4/47$

All: 1.051 ± 0.296 $\chi^2/\text{NDF}: 51845.1/90$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2091.997 $\pm$ 0.527 χ^2 /NDF: 670980.2/19

Left Out: 2121.567 $\pm$ 0.357 χ^2 /NDF:1387847.6/24

Right Out: 2098.879 $\pm$ 0.504 χ^2 /NDF: 553738.6/22

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

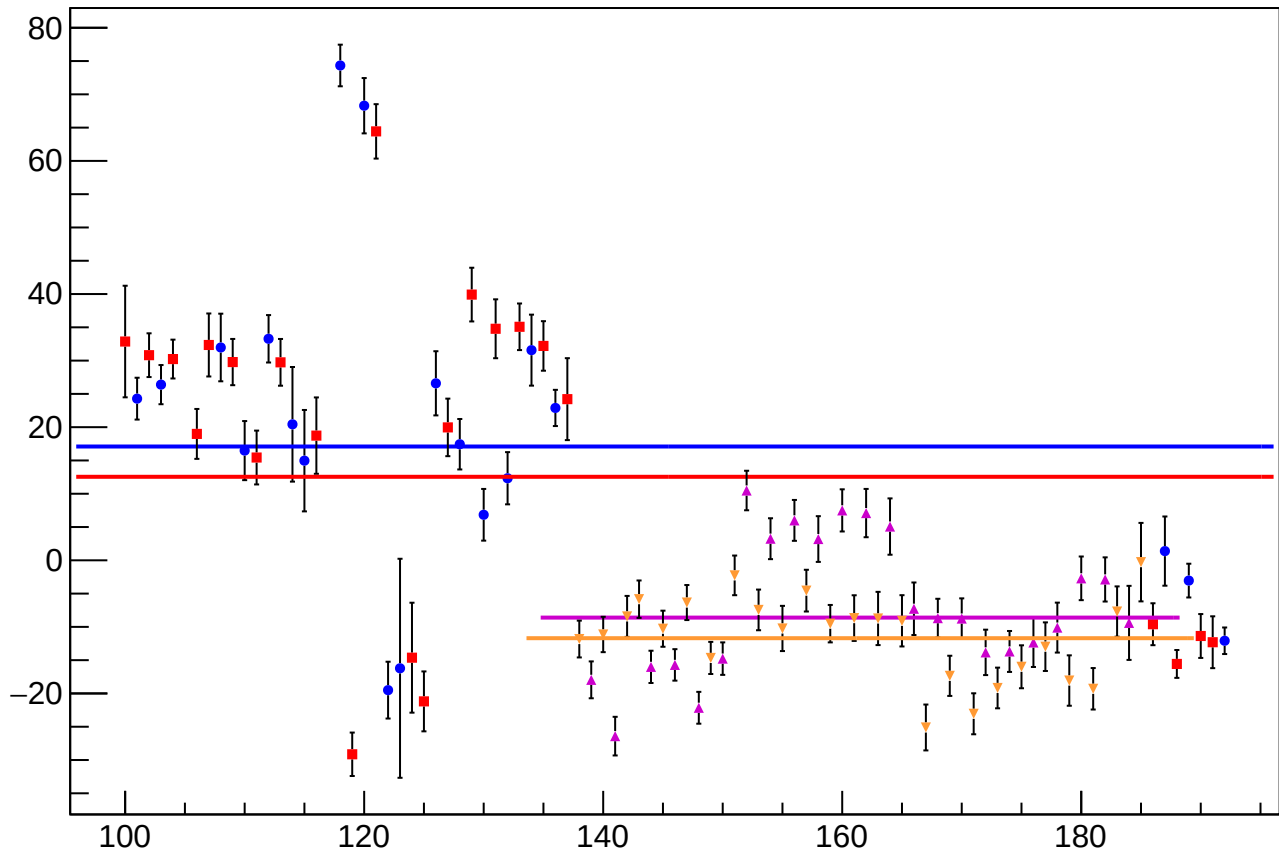
Right: 2095.594 $\pm$ 0.364 χ^2 /NDF: 1224807.9/42

In: 2098.288 $\pm$ 0.301 χ^2 /NDF:2031709.9/42

Out: 2113.970 $\pm$ 0.291 χ^2 /NDF:1942936.3/47

All: 2106.373 $\pm$ 0.209 χ^2 /NDF: 3976049.0/90

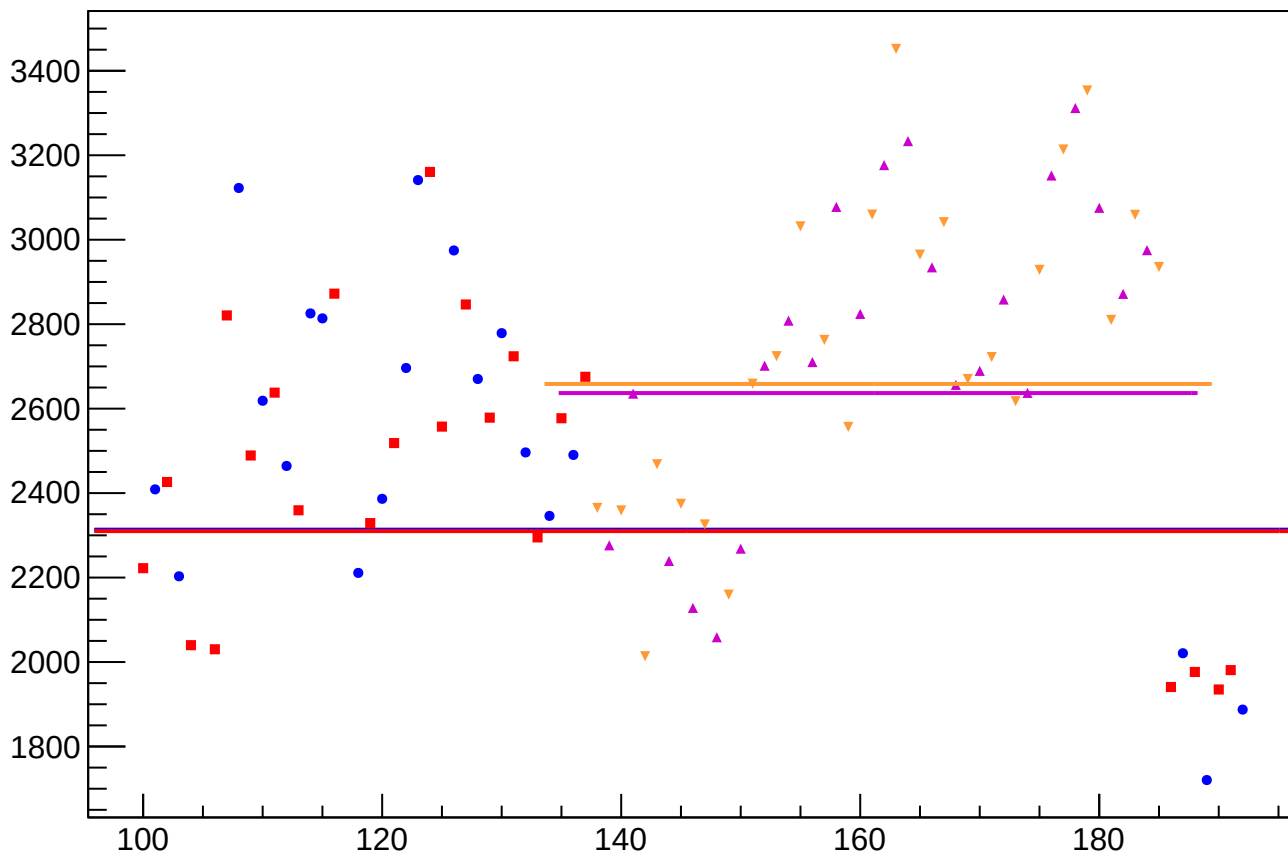
diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 17.096 $\pm$ 0.818 χ^2/NDF : 920.0/19
 Left Out: -11.700 $\pm$ 0.625 χ^2/NDF : 85.0/24
 Right Out: 12.547 $\pm$ 0.779 χ^2/NDF : 1006.3/22
 Left In: -8.606 $\pm$ 0.642 χ^2/NDF : 264.2/22

Left: -10.193 $\pm$ 0.448 χ^2/NDF : 361.1/47
 Right: 14.710 $\pm$ 0.564 χ^2/NDF : 1942.5/42
 In: 1.184 $\pm$ 0.505 χ^2/NDF : 1794.8/42
 Out: -2.198 $\pm$ 0.488 χ^2/NDF : 1680.3/47
 All: -0.566 $\pm$ 0.351 χ^2/NDF : 3498.3/90

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2313.405 $\pm$ 0.579 χ^2 /NDF: 412053.6/19

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2310.049 $\pm$ 0.551 χ^2 /NDF: 318057.8/22

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

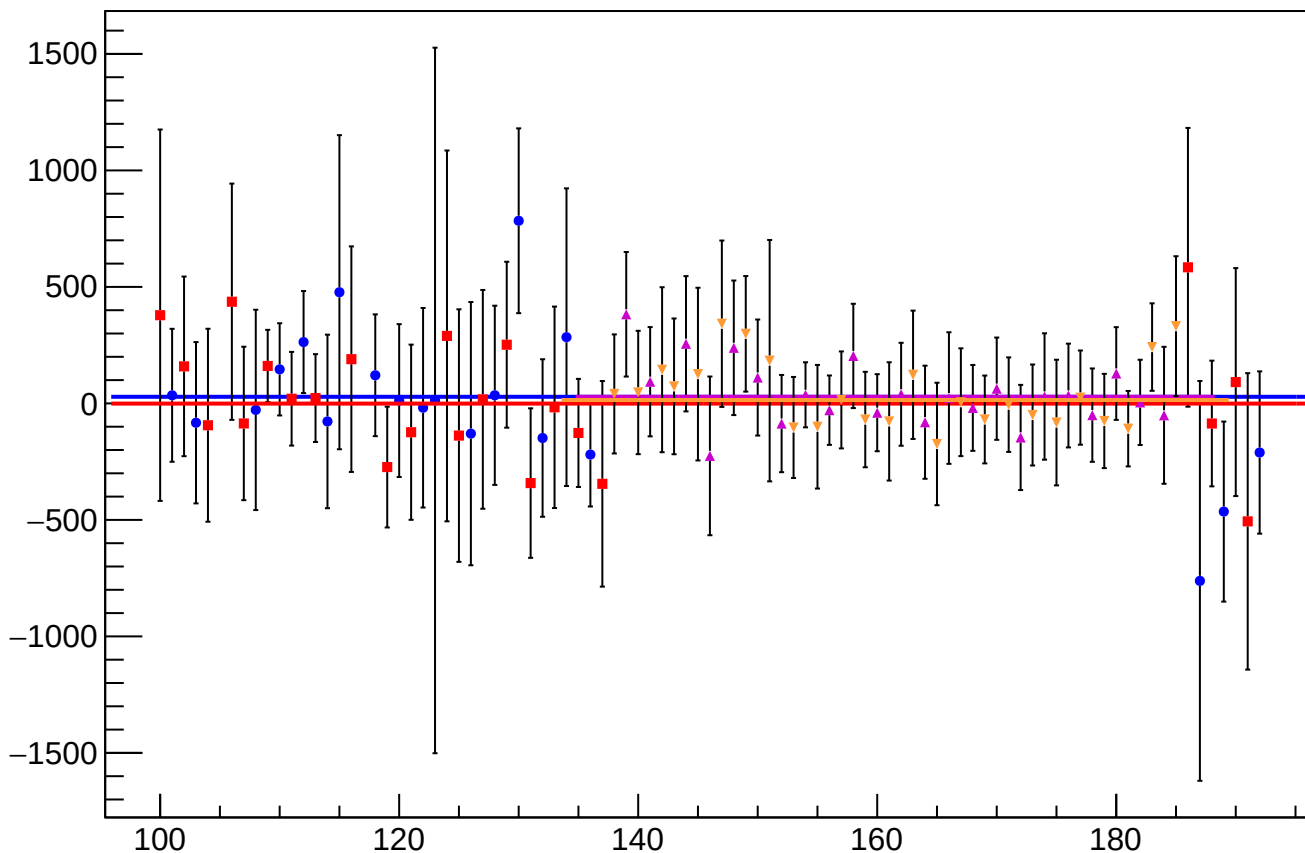
Right: 2311.645 $\pm$ 0.399 χ^2 /NDF: 730129.0/42

In: 2513.671 $\pm$ 0.357 χ^2 /NDF: 1258398.2/42

Out: 2521.946 $\pm$ 0.345 χ^2 /NDF: 1179433.7/47

All: 2517.953 $\pm$ 0.248 χ^2 /NDF: 2438109.7/90

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 28.395 $\pm$ 75.472 χ^2 /NDF: 10.6/19

Left Out: 14.520 $\pm$ 47.528 χ^2 /NDF: 7.8/24

Right Out: -0.776 $\pm$ 66.325 χ^2 /NDF: 8.2/22

Left In: 28.310 $\pm$ 44.638 χ^2 /NDF: 6.3/22

Left: 21.847 $\pm$ 32.538 χ^2 /NDF: 14.1/47

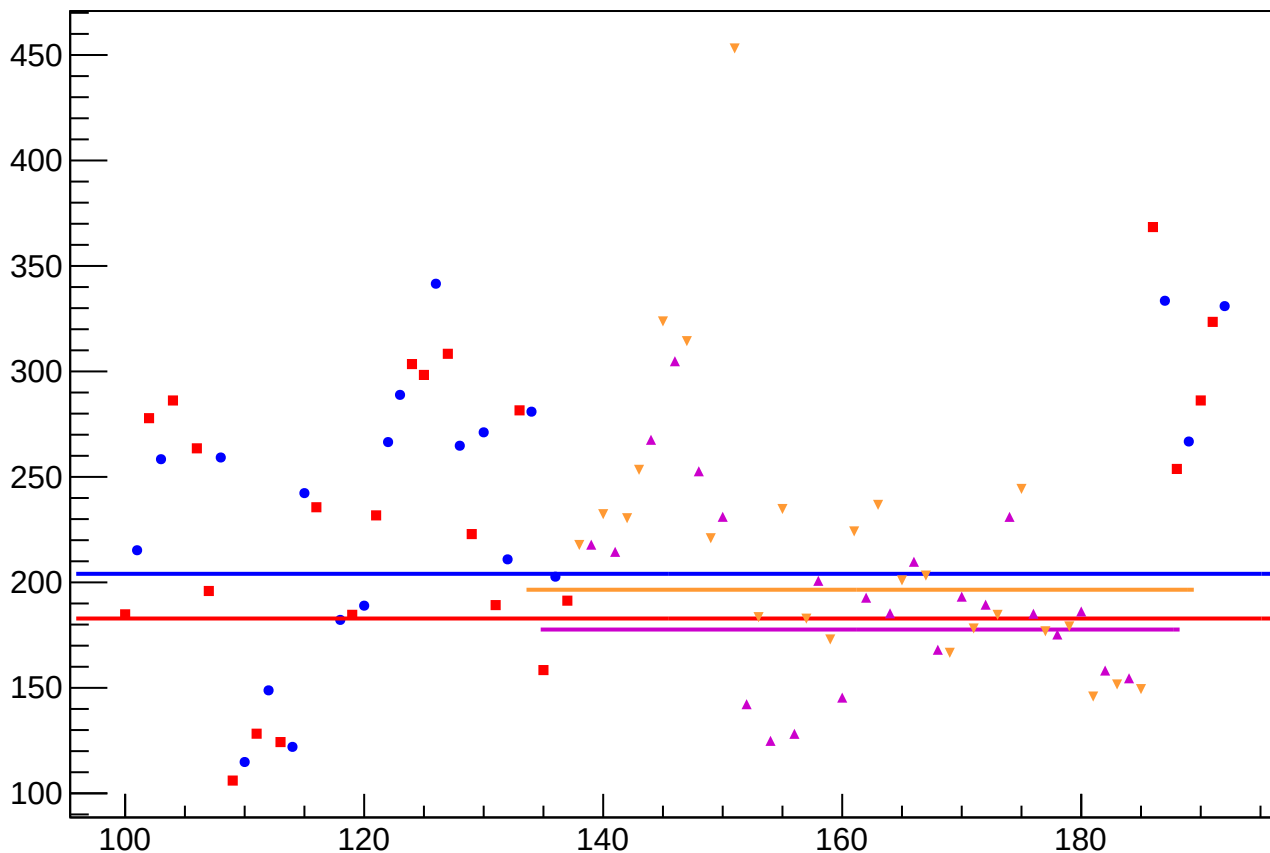
Right: 11.935 $\pm$ 49.820 χ^2 /NDF: 18.9/42

In: 28.332 $\pm$ 38.421 χ^2 /NDF: 16.9/42

Out: 9.330 $\pm$ 38.633 χ^2 /NDF: 16.0/47

All: 18.883 $\pm$ 27.242 χ^2 /NDF: 33.0/90

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.061 $\pm$ 0.053 χ^2 /NDF: 1408773.4/19

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF: 1789504.4/24

Right Out: 182.873 $\pm$ 0.047 χ^2 /NDF: 2139670.8/22

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

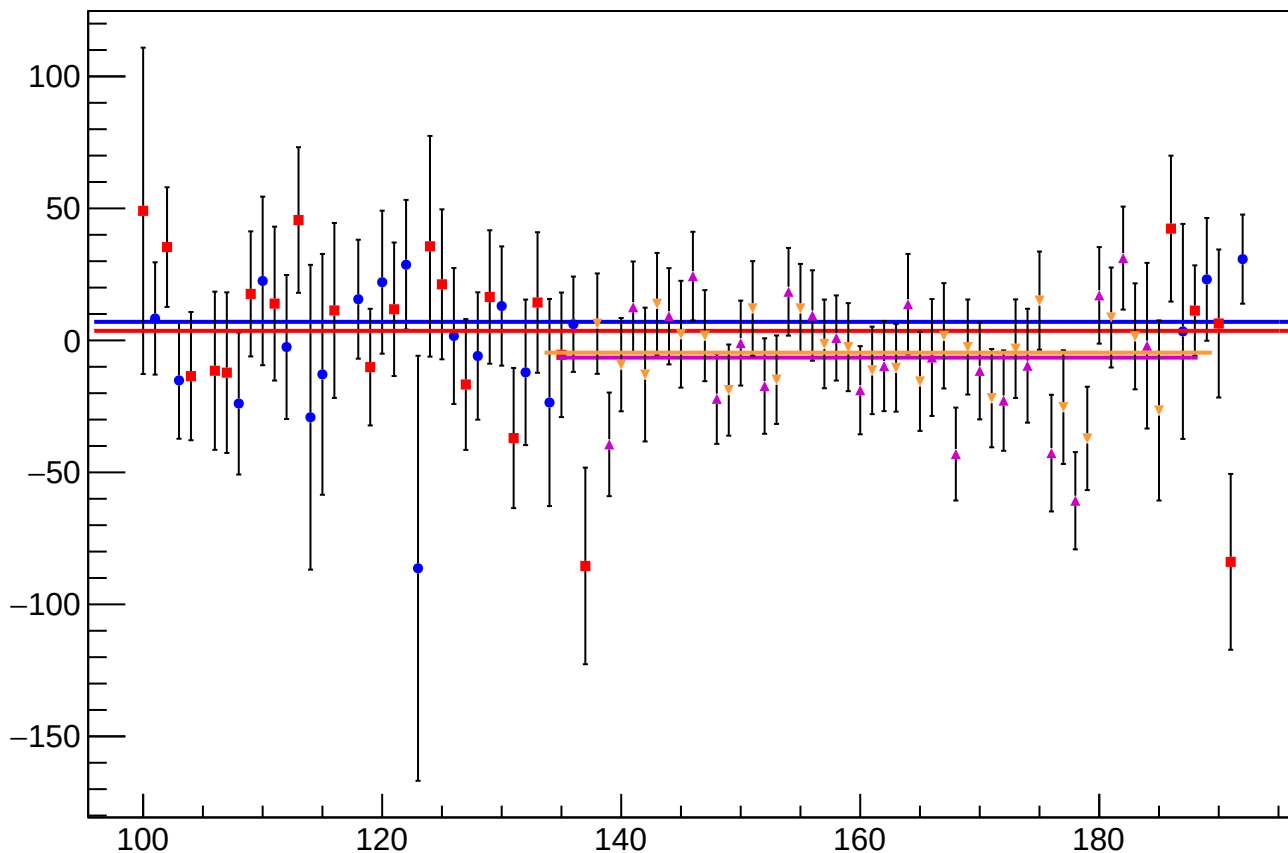
Right: 192.106 $\pm$ 0.035 χ^2 /NDF: 3637381.5/42

In: 184.490 $\pm$ 0.027 χ^2 /NDF: 3220976.0/42

Out: 191.886 $\pm$ 0.027 χ^2 /NDF: 3985070.5/47

All: 188.167 $\pm$ 0.019 χ^2 /NDF: 7242901.1/90

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.025 ± 5.767 $\chi^2/\text{NDF}: 9.8/19$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: 3.621 ± 5.579 $\chi^2/\text{NDF}: 26.2/22$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

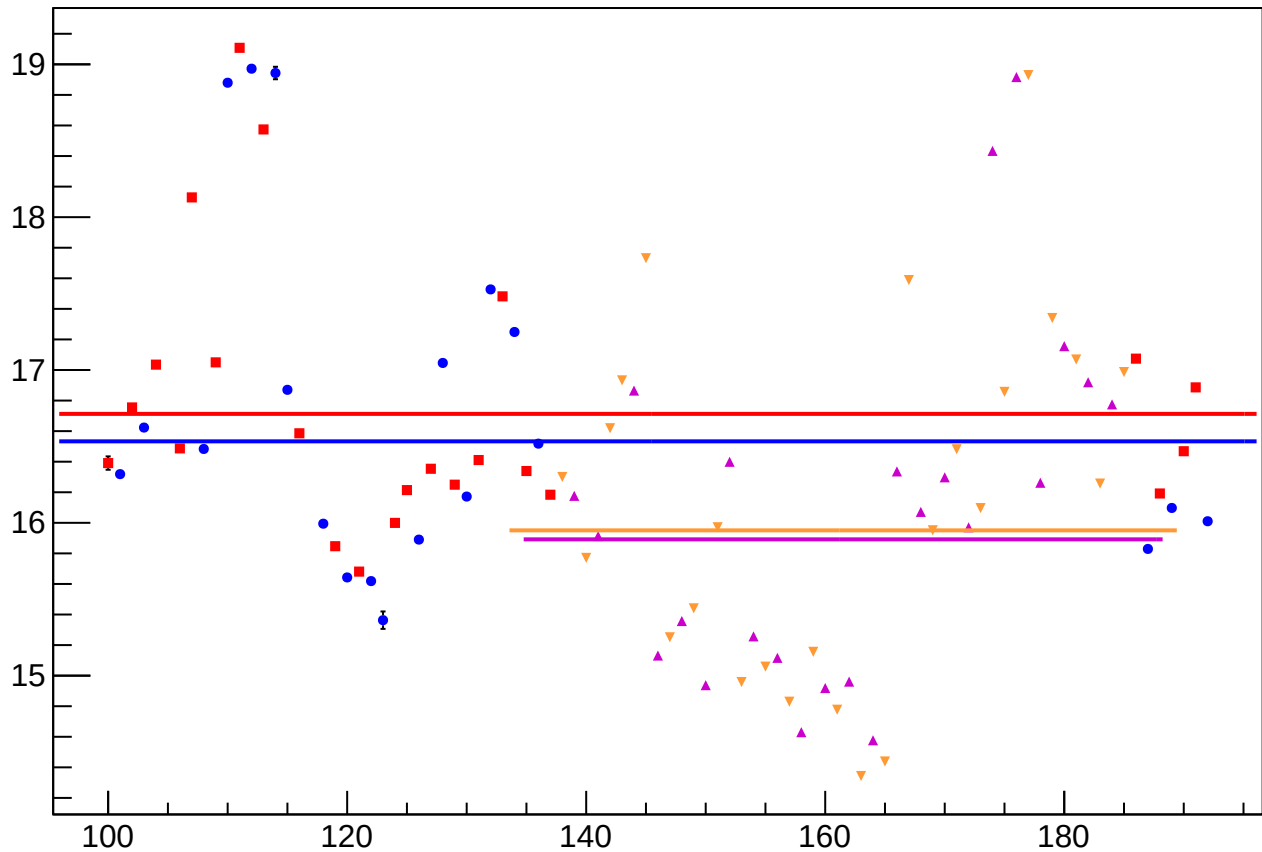
Right: 5.267 ± 4.010 $\chi^2/\text{NDF}: 36.2/42$

In: -2.382 ± 3.189 $\chi^2/\text{NDF}: 50.0/42$

Out: -2.094 ± 3.100 $\chi^2/\text{NDF}: 39.8/47$

All: -2.234 ± 2.223 $\chi^2/\text{NDF}: 89.8/90$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.533 $\pm$ 0.004 χ^2/NDF : 46266.5/19

Left Out: 15.951 $\pm$ 0.003 χ^2/NDF : 173458.5/24

Right Out: 16.713 $\pm$ 0.004 χ^2/NDF : 41816.6/22

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

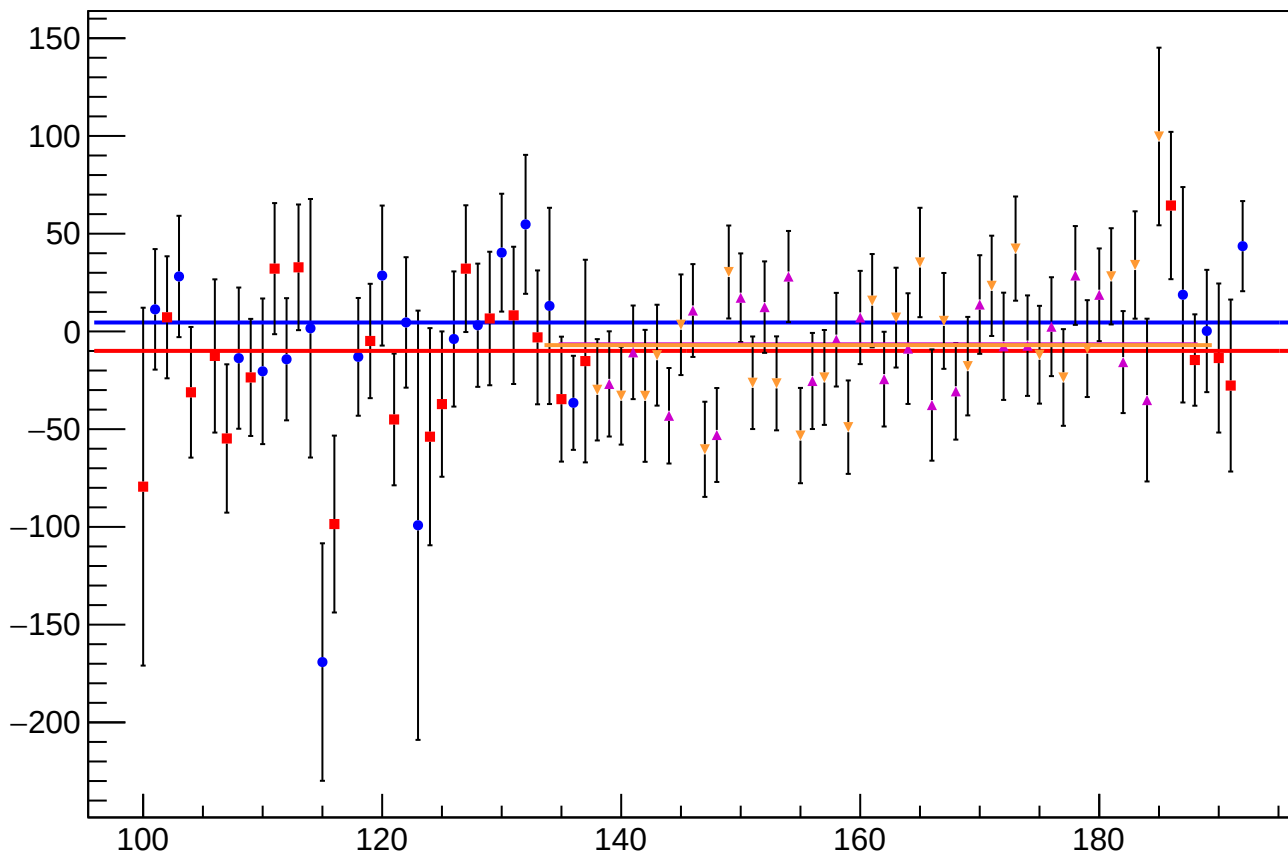
Right: 16.626 $\pm$ 0.003 χ^2/NDF : 89086.7/42

In: 16.088 $\pm$ 0.002 χ^2/NDF : 210529.1/42

Out: 16.186 $\pm$ 0.002 χ^2/NDF : 241077.3/47

All: 16.138 $\pm$ 0.002 χ^2/NDF : 452576.7/90

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.567 ± 7.657 χ^2/NDF : 20.9/19

Left Out: -7.017 ± 5.121 χ^2/NDF : 37.4/24

Right Out: -9.958 ± 7.350 χ^2/NDF : 19.3/22

Left In: -6.611 ± 5.251 χ^2/NDF : 19.1/22

Left: -6.820 ± 3.666 χ^2/NDF : 56.6/47

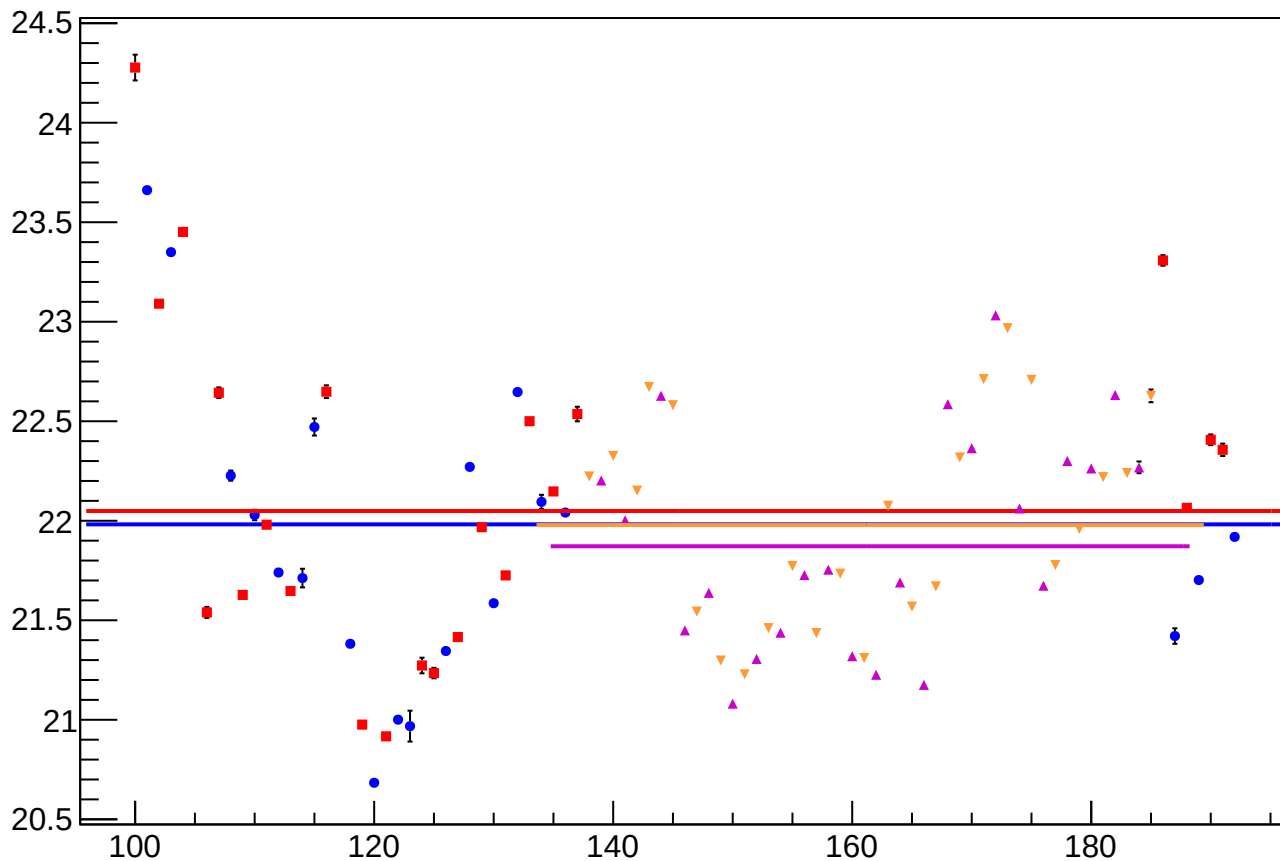
Right: -2.992 ± 5.303 χ^2/NDF : 42.1/42

In: -3.036 ± 4.331 χ^2/NDF : 41.5/42

Out: -7.978 ± 4.202 χ^2/NDF : 56.8/47

All: -5.582 ± 3.016 χ^2/NDF : 99.0/90

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.982 $\pm$ 0.005 χ^2 /NDF: 17813.3/19

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF: 19430.2/24

Right Out: 22.049 $\pm$ 0.005 χ^2 /NDF: 19127.1/22

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF: 20524.9/22

Left: 21.926 $\pm$ 0.003 χ^2 /NDF: 40377.5/47

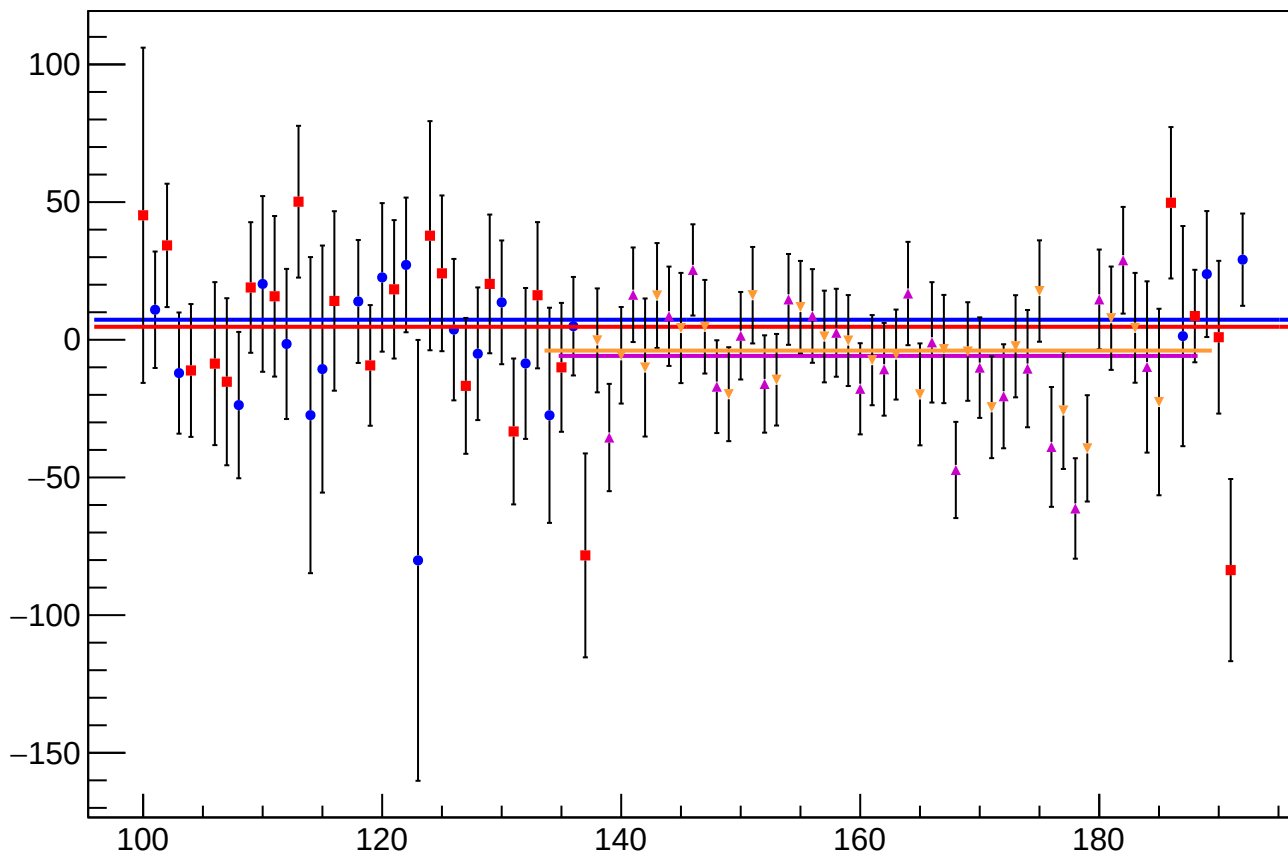
Right: 22.017 $\pm$ 0.004 χ^2 /NDF: 37020.4/42

In: 21.907 $\pm$ 0.003 χ^2 /NDF: 38619.4/42

Out: 22.001 $\pm$ 0.003 χ^2 /NDF: 38681.6/47

All: 21.956 $\pm$ 0.002 χ^2 /NDF: 77791.1/90

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.280 $\pm$ 5.728 χ^2 /NDF: 9.0/19

Left Out: -3.927 $\pm$ 3.688 χ^2 /NDF:14.0/24

Right Out: 4.718 $\pm$ 5.537 χ^2 /NDF: 27.1/22

Left In: -5.861 $\pm$ 3.787 χ^2 /NDF:36.2/22

Left: -4.869 $\pm$ 2.642 χ^2 /NDF: 50.3/47

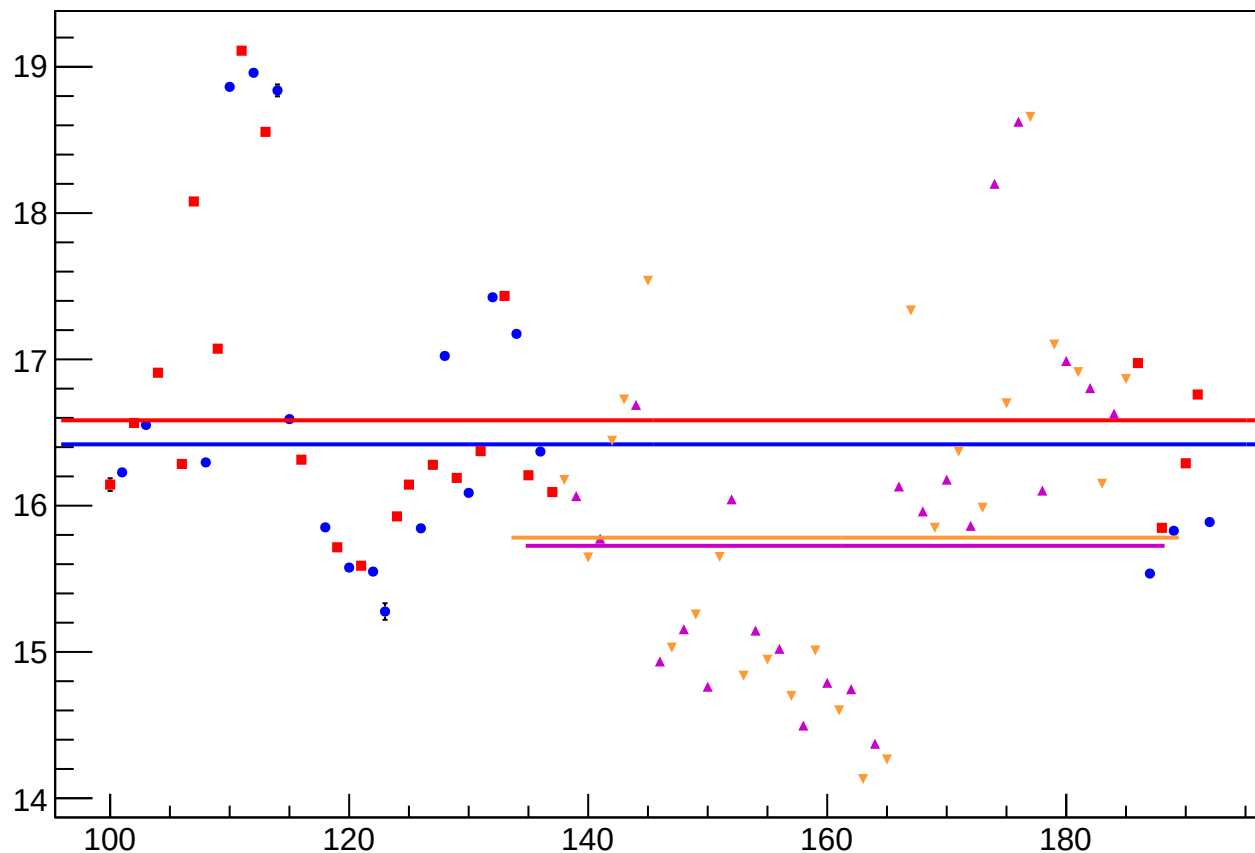
Right: 5.956 $\pm$ 3.981 χ^2 /NDF: 36.1/42

In: -1.864 $\pm$ 3.159 χ^2 /NDF:48.8/42

Out: -1.271 $\pm$ 3.069 χ^2 /NDF:42.7/47

All: -1.559 $\pm$ 2.201 χ^2 /NDF: 91.6/90

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.419 $\pm$ 0.004 χ^2 /NDF: 49612.1/19

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 16.583 $\pm$ 0.004 χ^2 /NDF: 47389.5/22

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

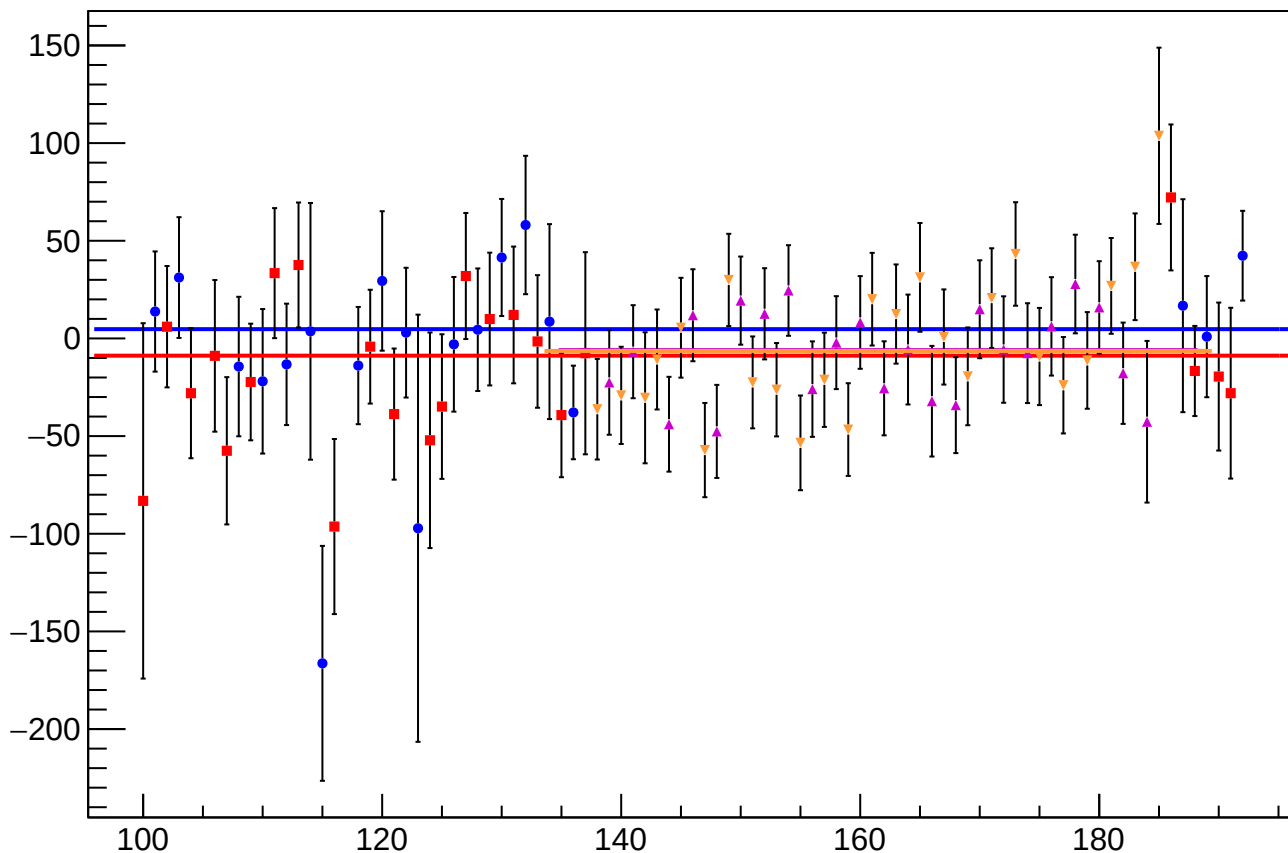
Right: 16.504 $\pm$ 0.003 χ^2 /NDF: 97851.4/42

In: 15.936 $\pm$ 0.002 χ^2 /NDF:215859.3/42

Out: 16.028 $\pm$ 0.002 χ^2 /NDF:249352.6/47

All: 15.983 $\pm$ 0.002 χ^2 /NDF: 466071.8/90

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.749+/-7.619 χ^2/NDF : 21.5/19

Left Out: -6.404+/-5.091 χ^2/NDF : 37.4/24

Right Out: -8.819+/-7.306 χ^2/NDF : 20.9/22

Left In: -5.978+/-5.222 χ^2/NDF : 18.5/22

Left: -6.196+/-3.646 χ^2/NDF : 55.9/47

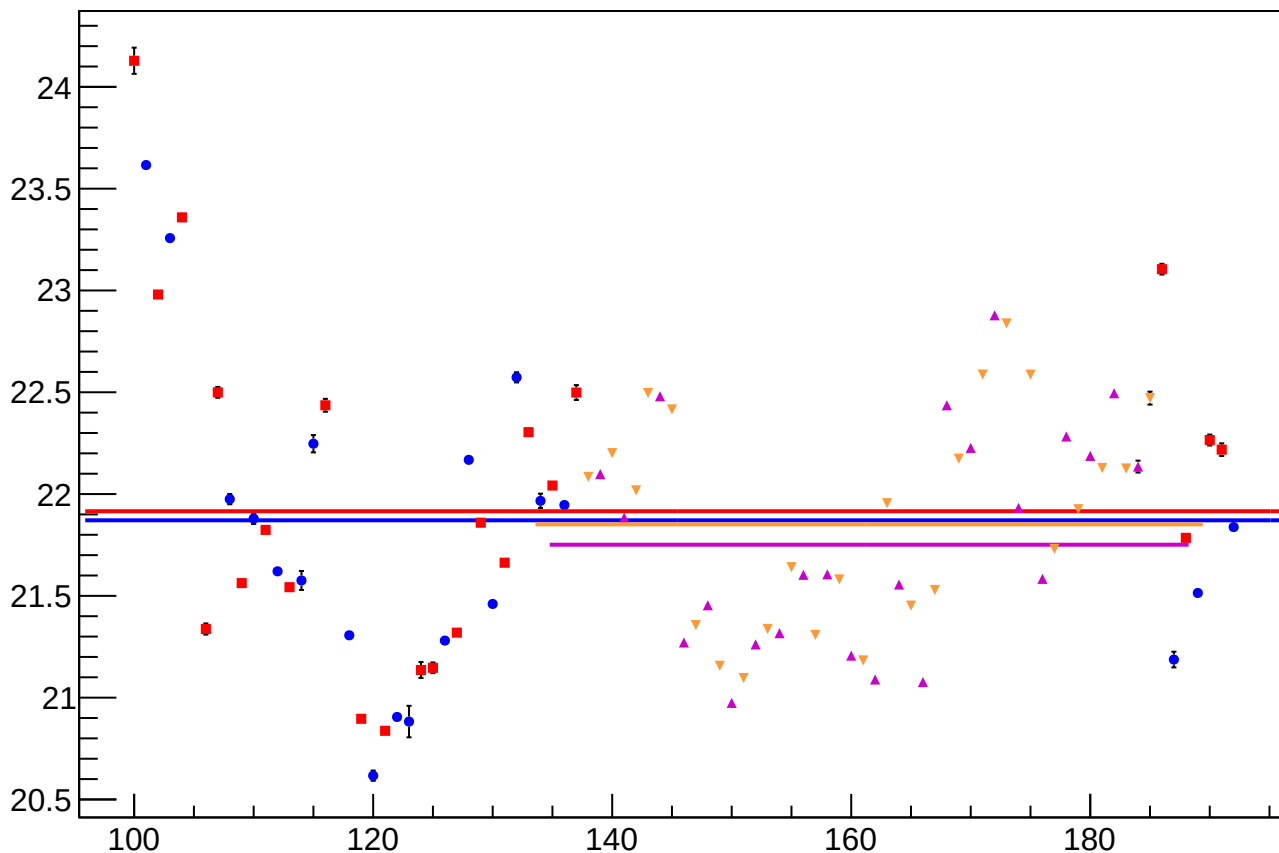
Right: -2.319+/-5.273 χ^2/NDF : 44.0/42

In: -2.549+/-4.308 χ^2/NDF : 41.4/42

Out: -7.193+/-4.177 χ^2/NDF : 58.3/47

All: -4.942+/-2.999 χ^2/NDF : 100.3/90

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.871 $\pm$ 0.005 χ^2 /NDF: 18288.9/19

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF: 19631.8/24

Right Out: 21.916 $\pm$ 0.005 χ^2 /NDF: 18523.9/22

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

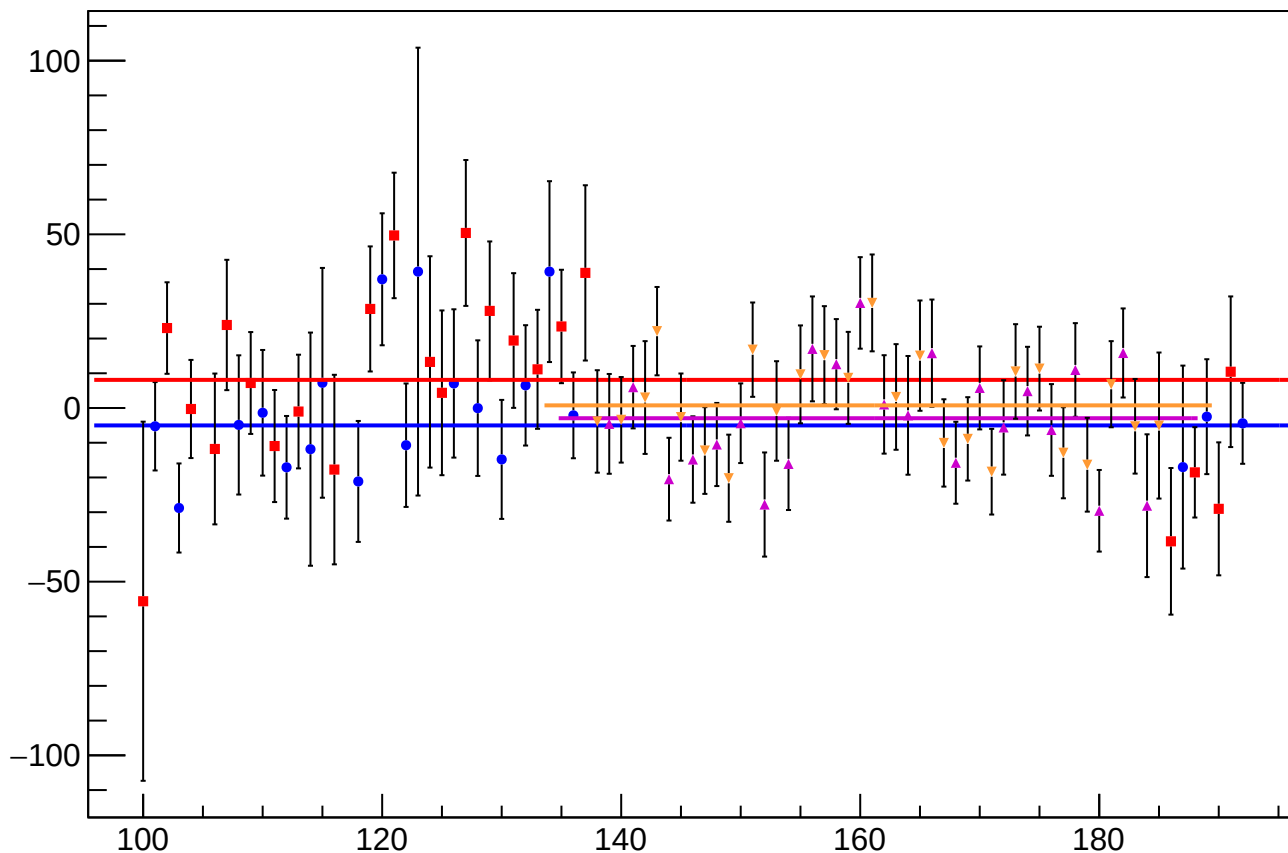
Right: 21.894 $\pm$ 0.004 χ^2 /NDF: 36848.6/42

In: 21.790 $\pm$ 0.003 χ^2 /NDF: 39142.2/42

Out: 21.872 $\pm$ 0.003 χ^2 /NDF: 38260.9/47

All: 21.832 $\pm$ 0.002 χ^2 /NDF: 77783.3/90

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.017 ± 3.910 $\chi^2/\text{NDF}: 15.0/19$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 8.098 ± 3.839 $\chi^2/\text{NDF}: 34.6/22$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

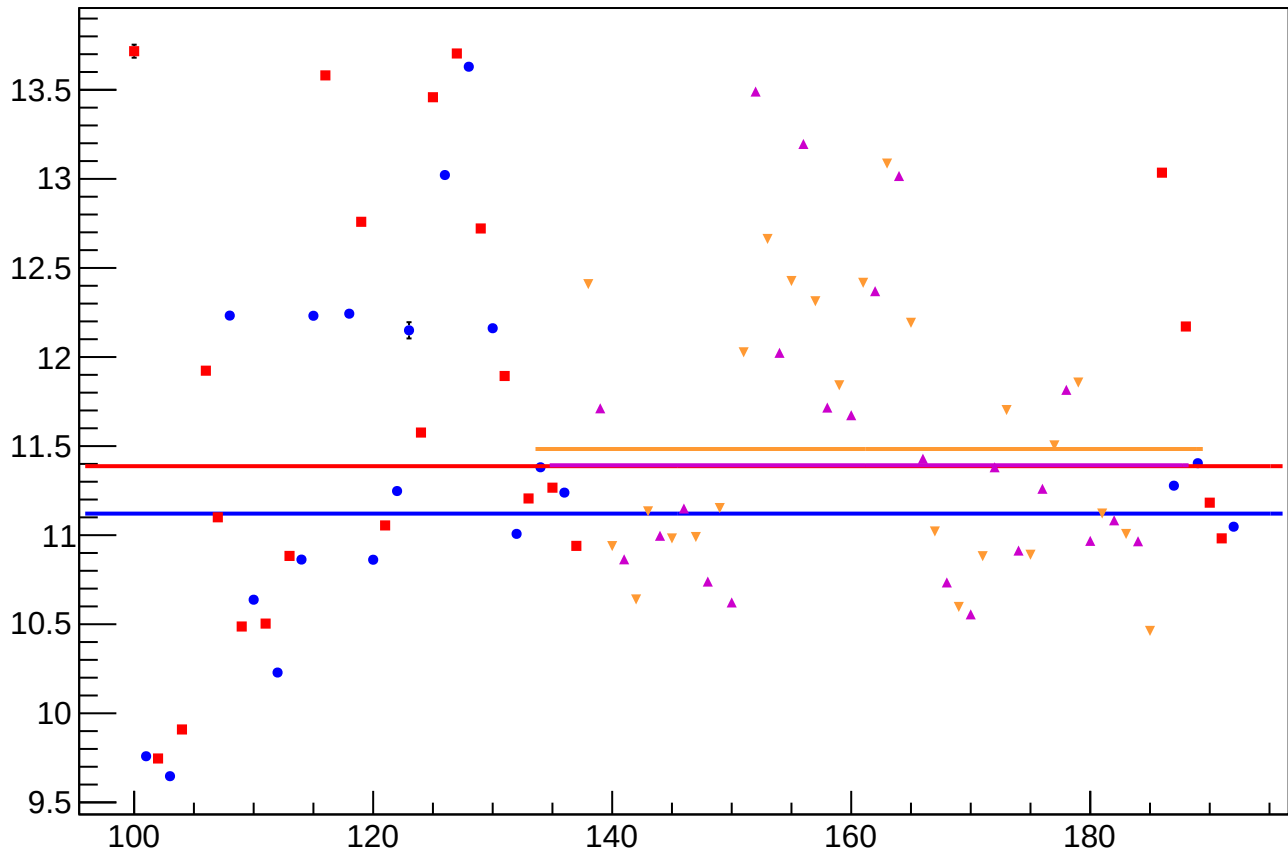
Right: 1.660 ± 2.739 $\chi^2/\text{NDF}: 55.2/42$

In: -3.633 ± 2.253 $\chi^2/\text{NDF}: 46.1/42$

Out: 3.186 ± 2.208 $\chi^2/\text{NDF}: 60.8/47$

All: -0.153 ± 1.577 $\chi^2/\text{NDF}: 111.6/90$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.121 $\pm$ 0.003 χ^2 /NDF: 133334.6/19

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 11.387 $\pm$ 0.003 χ^2 /NDF: 170579.1/22

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

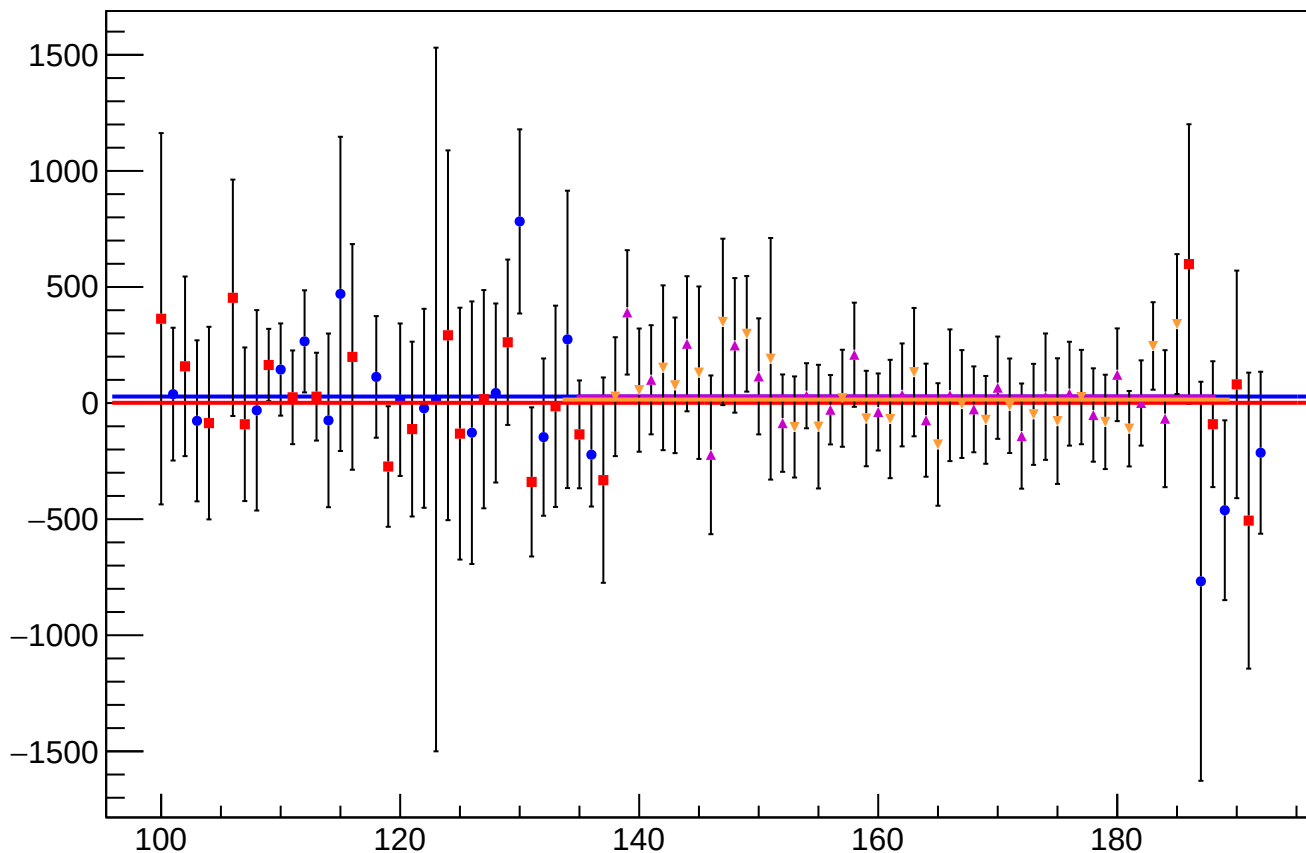
Right: 11.257 $\pm$ 0.002 χ^2 /NDF: 308637.1/42

In: 11.302 $\pm$ 0.002 χ^2 /NDF:290263.2/42

Out: 11.452 $\pm$ 0.002 χ^2 /NDF:301229.0/47

All: 11.379 $\pm$ 0.001 χ^2 /NDF: 595989.7/90

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 28.154+/-75.666 χ^2/NDF : 10.5/19

Left Out: 15.130+/-47.705 χ^2/NDF : 8.0/24

Right Out: 1.285+/-66.528 χ^2/NDF : 8.3/22

Left In: 28.500+/-44.797 χ^2/NDF : 6.4/22

Left: 22.235+/-32.656 χ^2/NDF : 14.4/47

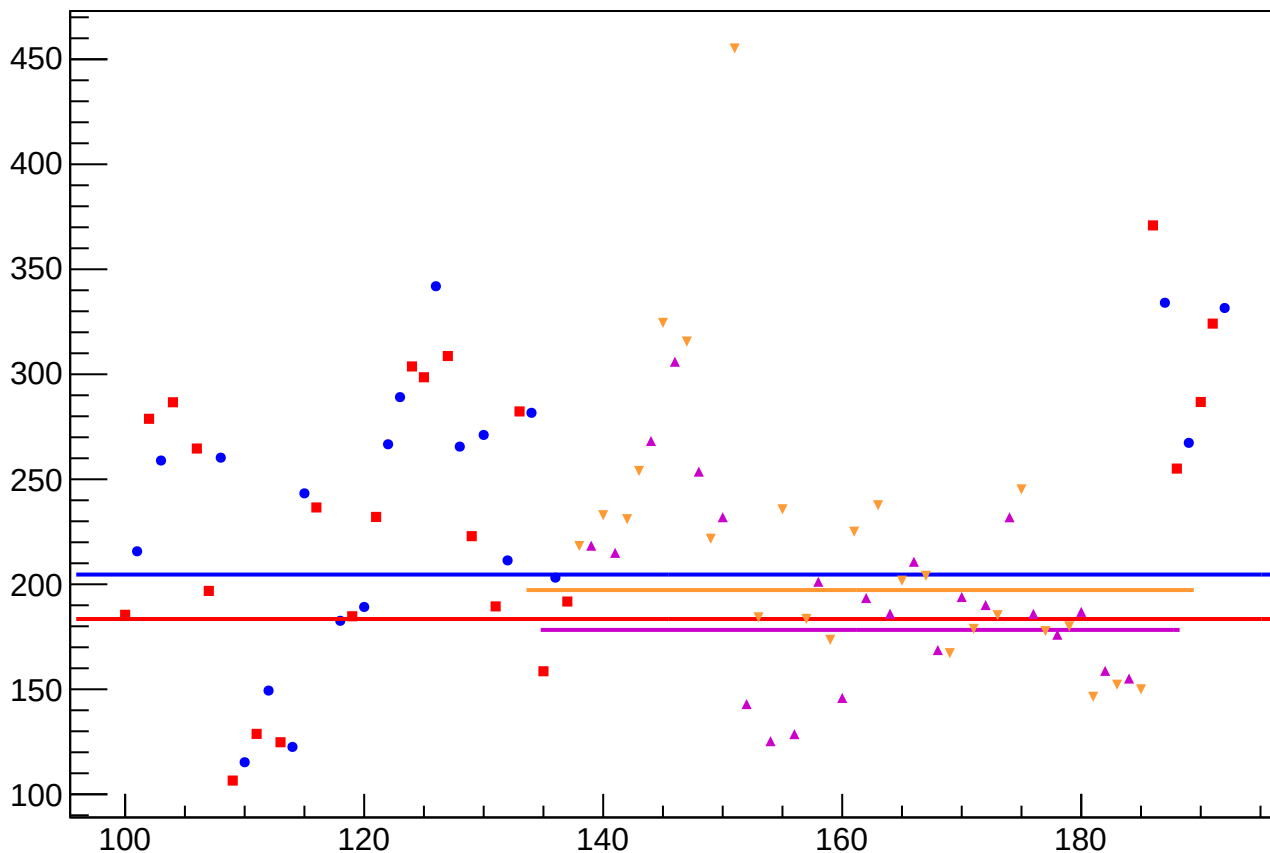
Right: 12.999+/-49.962 χ^2/NDF : 18.9/42

In: 28.410+/-38.548 χ^2/NDF : 16.9/42

Out: 10.428+/-38.768 χ^2/NDF : 16.3/47

All: 19.471+/-27.335 χ^2/NDF : 33.4/90

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.627 $\pm$ 0.054 χ^2 /NDF: 1402630.5/19

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF: 1786808.1/24

Right Out: 183.468 $\pm$ 0.047 χ^2 /NDF: 2134495.6/22

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

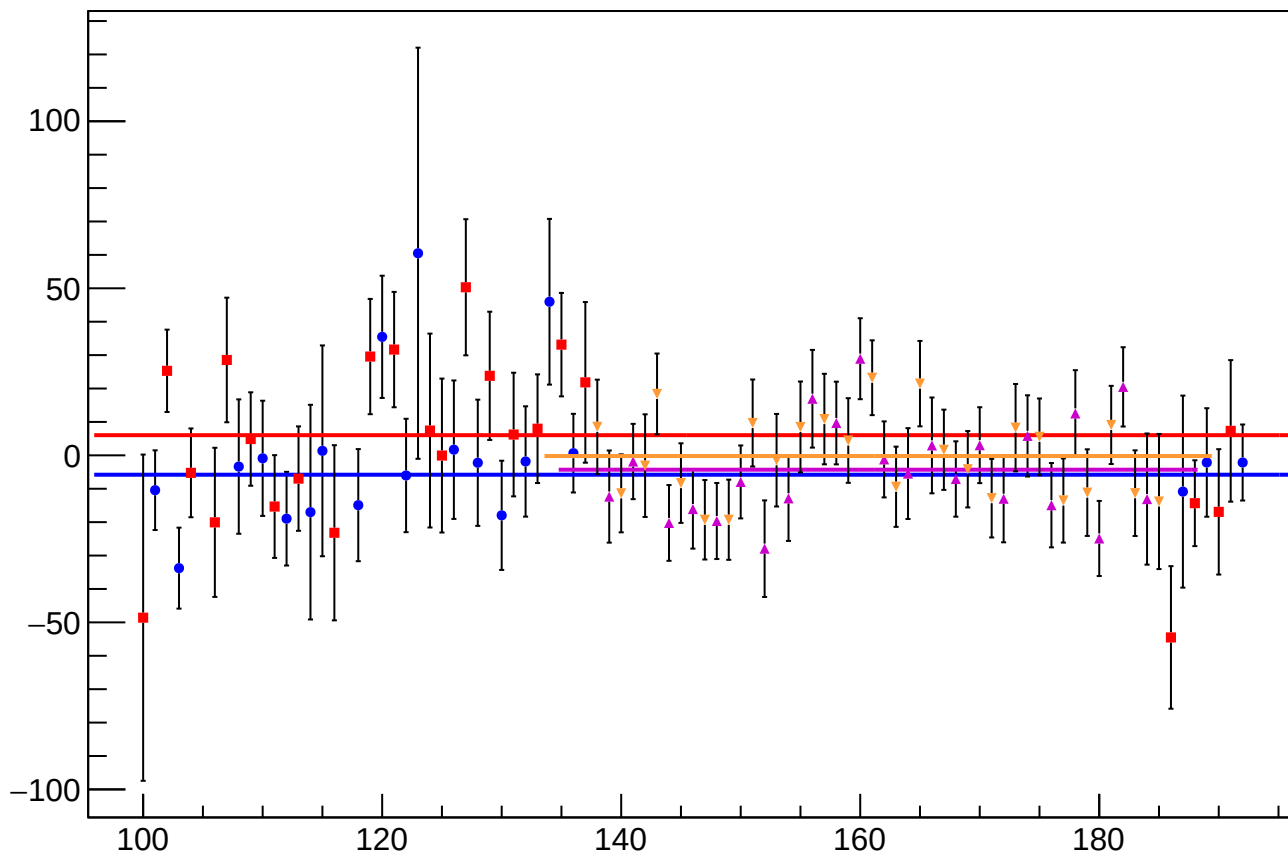
Right: 192.693 $\pm$ 0.035 χ^2 /NDF: 3625336.2/42

In: 185.116 $\pm$ 0.027 χ^2 /NDF: 3211142.0/42

Out: 192.569 $\pm$ 0.027 χ^2 /NDF: 3977987.0/47

All: 188.821 $\pm$ 0.019 χ^2 /NDF: 7226303.6/90

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.803 ± 3.750 χ^2/NDF : 18.8/19

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 6.035 ± 3.695 χ^2/NDF : 36.4/22

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

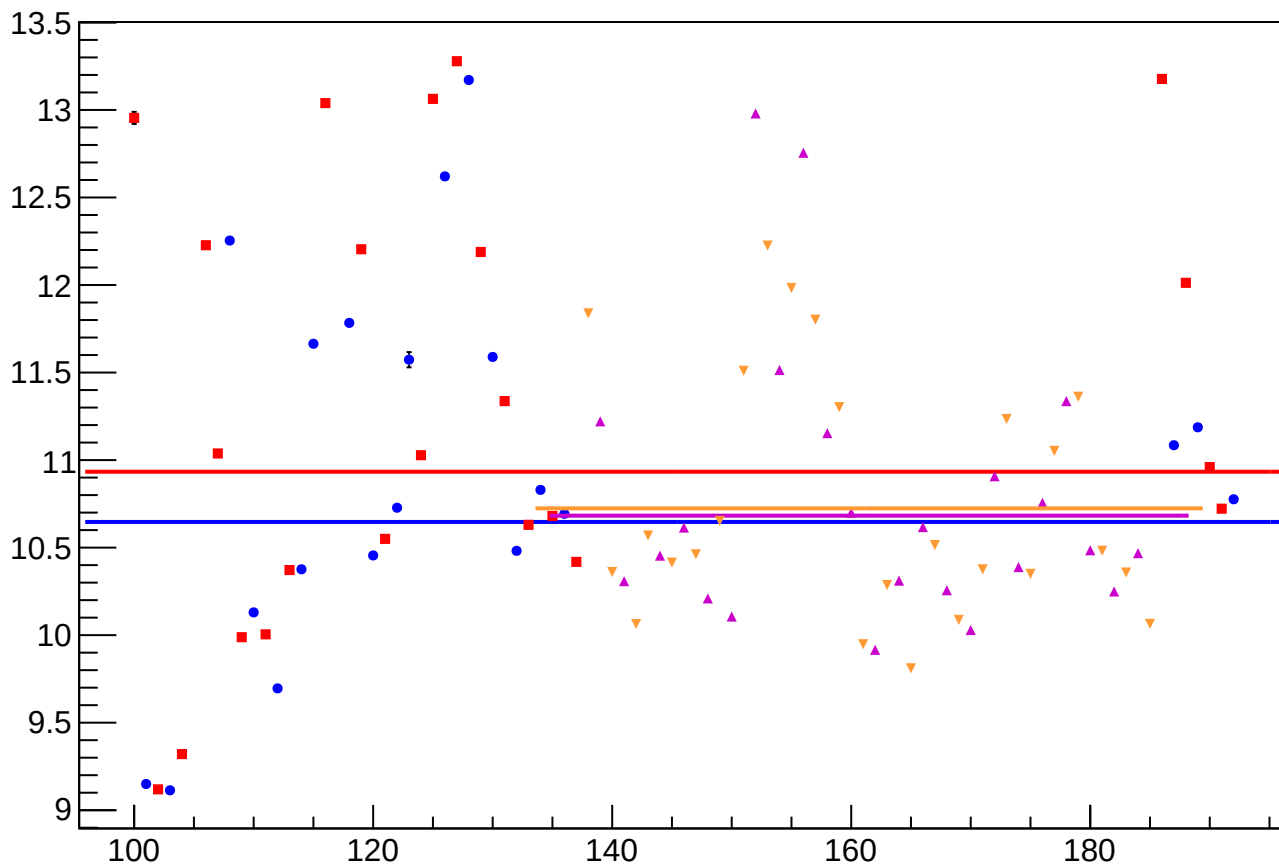
Right: 0.204 ± 2.632 χ^2/NDF : 60.2/42

In: -4.783 ± 2.131 χ^2/NDF : 50.5/42

Out: 1.776 ± 2.084 χ^2/NDF : 62.9/47

All: -1.431 ± 1.490 χ^2/NDF : 118.2/90

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.647 $\pm$ 0.003 χ^2 /NDF: 163193.3/19

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.933 $\pm$ 0.003 χ^2 /NDF: 218412.5/22

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

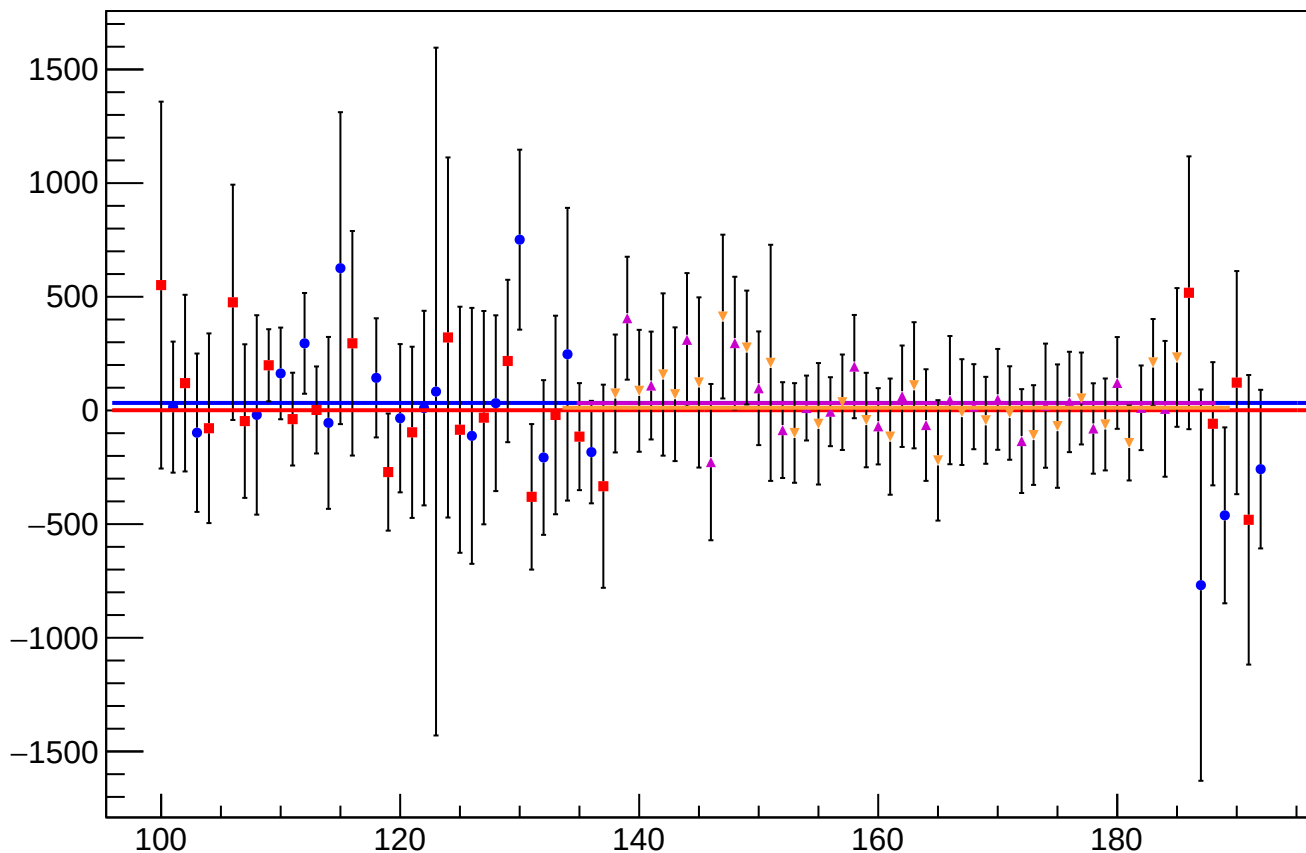
Right: 10.792 $\pm$ 0.002 χ^2 /NDF: 387544.8/42

In: 10.671 $\pm$ 0.002 χ^2 /NDF:311153.7/42

Out: 10.791 $\pm$ 0.001 χ^2 /NDF:355348.2/47

All: 10.732 $\pm$ 0.001 χ^2 /NDF: 669732.0/90

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 33.064 $\pm$ 76.114 χ^2 /NDF: 11.1/19

Left Out: 11.891 $\pm$ 48.022 χ^2 /NDF:7.6/24

Right Out: 1.045 $\pm$ 67.096 χ^2 /NDF: 8.8/22

Left In: 32.413 $\pm$ 45.155 χ^2 /NDF:6.9/22

Left: 22.783 $\pm$ 32.896 χ^2 /NDF: 14.6/47

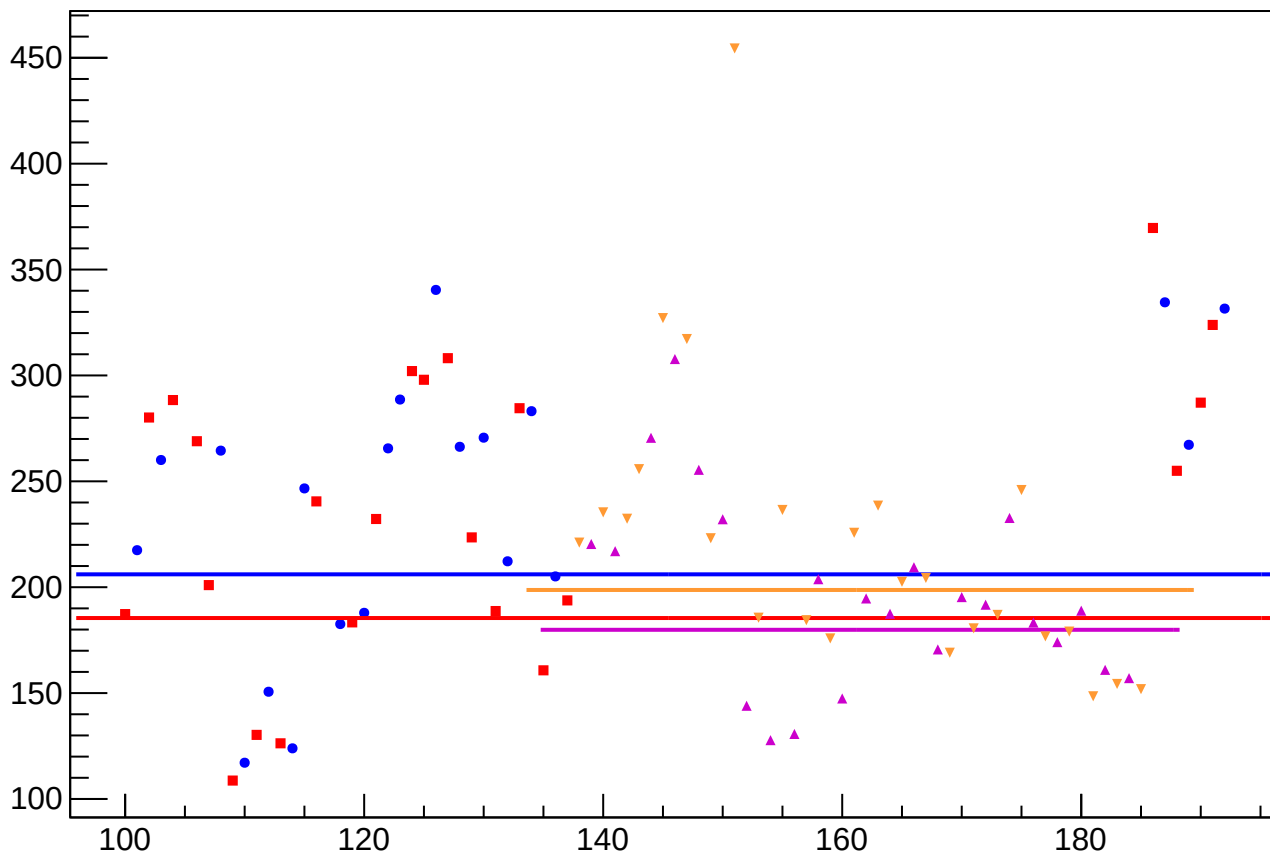
Right: 15.047 $\pm$ 50.332 χ^2 /NDF: 20.0/42

In: 32.582 $\pm$ 38.835 χ^2 /NDF:18.0/42

Out: 8.217 $\pm$ 39.051 χ^2 /NDF:16.5/47

All: 20.467 $\pm$ 27.536 χ^2 /NDF: 34.6/90

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.079 $\pm$ 0.054 χ^2/NDF : 1367416.1/19

Left Out: 198.695 $\pm$ 0.034 χ^2/NDF : 1759311.9/24

Right Out: 185.444 $\pm$ 0.047 χ^2/NDF : 2073742.1/22

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

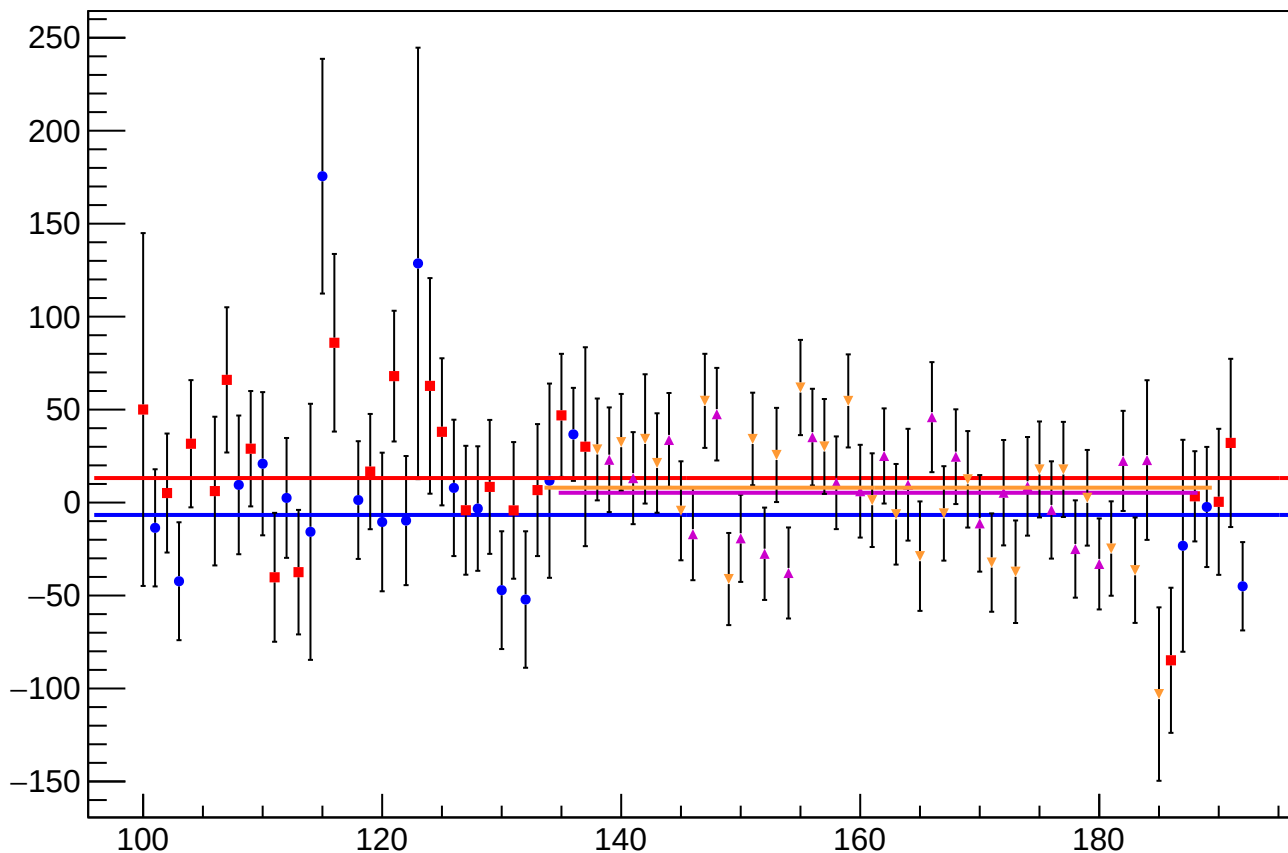
Right: 194.468 $\pm$ 0.036 χ^2/NDF : 3523876.8/42

In: 186.705 $\pm$ 0.027 χ^2/NDF : 3123242.8/42

Out: 194.206 $\pm$ 0.028 χ^2/NDF : 3884634.5/47

All: 190.435 $\pm$ 0.019 χ^2/NDF : 7044981.8/90

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.659 ± 7.951 χ^2/NDF : 21.1/19

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.186 ± 7.647 χ^2/NDF : 21.6/22

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

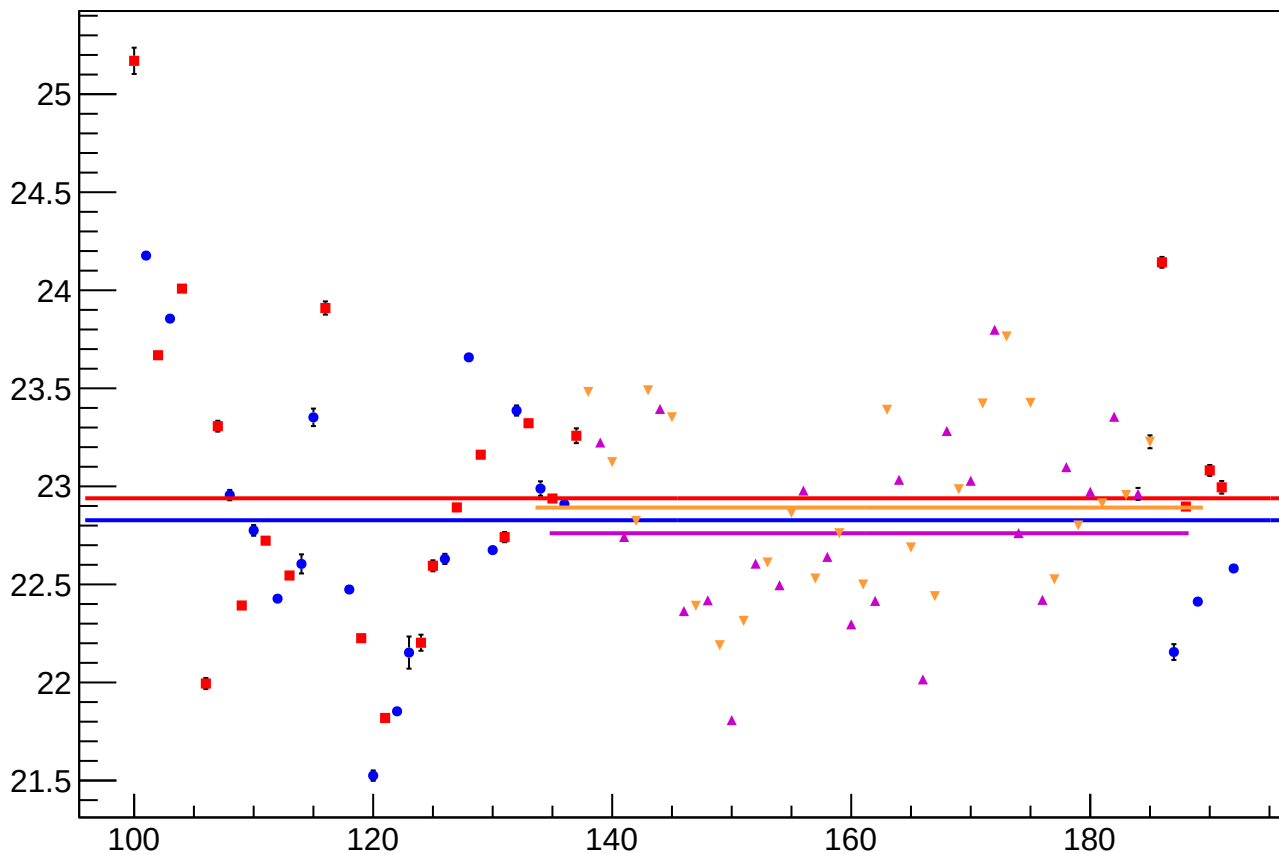
Right: 3.650 ± 5.512 χ^2/NDF : 45.9/42

In: 1.437 ± 4.504 χ^2/NDF : 43.3/42

Out: 9.700 ± 4.375 χ^2/NDF : 59.3/47

All: 5.688 ± 3.138 χ^2/NDF : 104.4/90

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.827 $\pm$ 0.006 χ^2 /NDF: 13262.2/19

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.939 $\pm$ 0.005 χ^2 /NDF: 13134.0/22

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

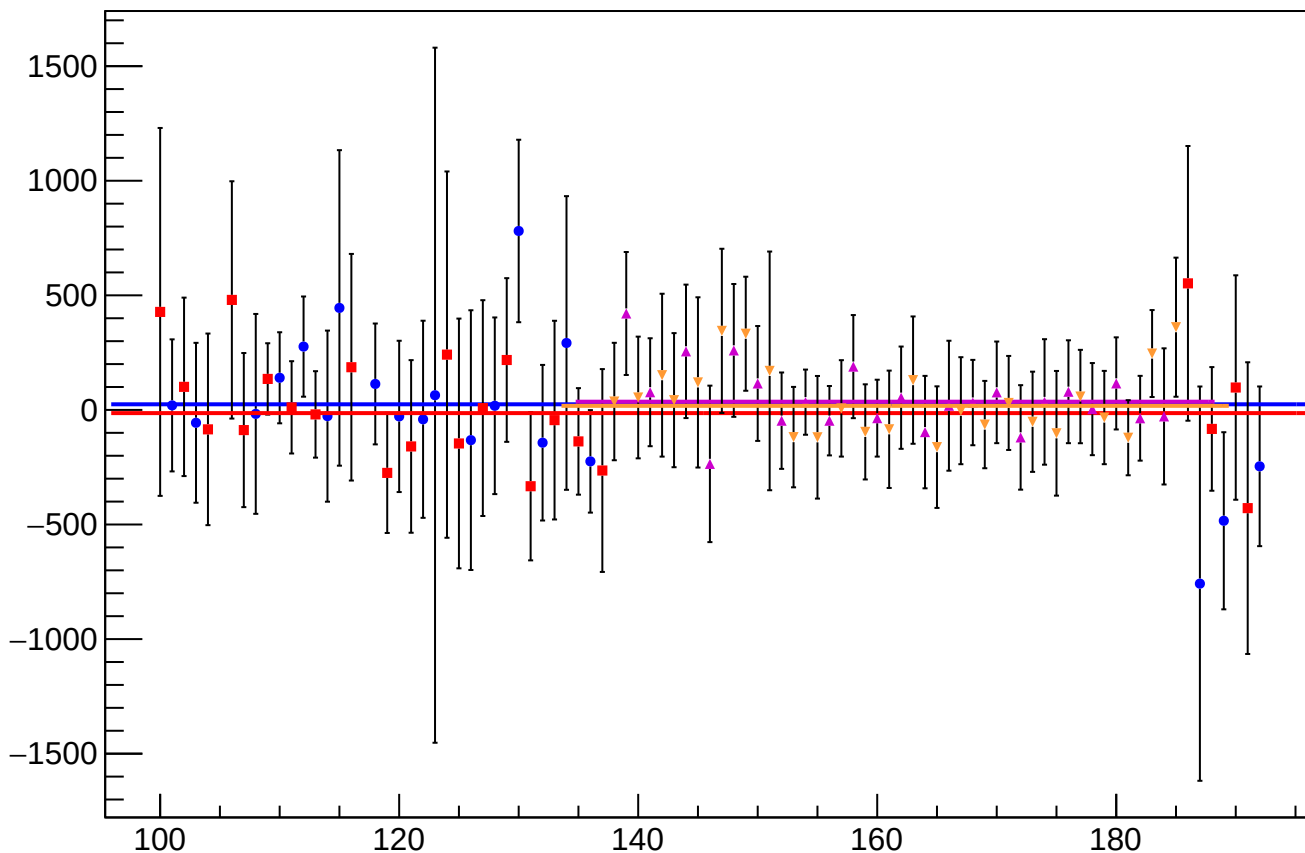
Right: 22.885 $\pm$ 0.004 χ^2 /NDF: 26602.2/42

In: 22.782 $\pm$ 0.003 χ^2 /NDF:27906.8/42

Out: 22.907 $\pm$ 0.003 χ^2 /NDF:26181.1/47

All: 22.847 $\pm$ 0.002 χ^2 /NDF: 54882.8/90

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 24.540 $\pm$ 75.807 χ^2 /NDF: 10.8/19

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -13.906 $\pm$ 66.648 χ^2 /NDF: 7.2/22

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.383 $\pm$ 32.844 χ^2 /NDF: 14.9/47

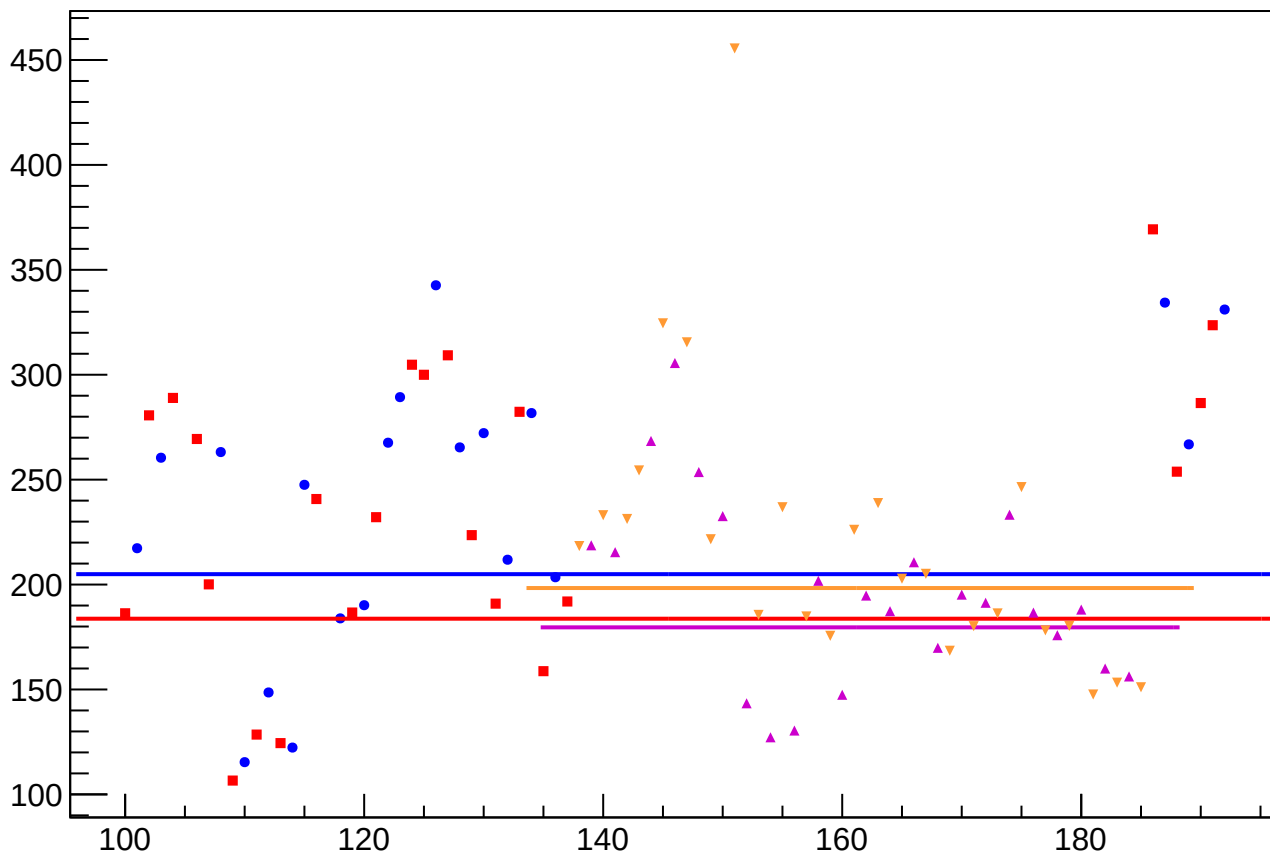
Right: 2.856 $\pm$ 50.054 χ^2 /NDF: 18.1/42

In: 32.916 $\pm$ 38.751 χ^2 /NDF:17.1/42

Out: 6.974 $\pm$ 38.919 χ^2 /NDF:15.9/47

All: 20.001 $\pm$ 27.460 χ^2 /NDF: 33.2/90

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.957 $\pm$ 0.054 χ^2 /NDF: 1413231.2/19

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 183.729 $\pm$ 0.047 χ^2 /NDF: 2152911.4/22

Left In: 179.605 $\pm$ 0.032 χ^2 /NDF:1575744.0/22

Left: 188.400 $\pm$ 0.023 χ^2 /NDF: 3495336.8/47

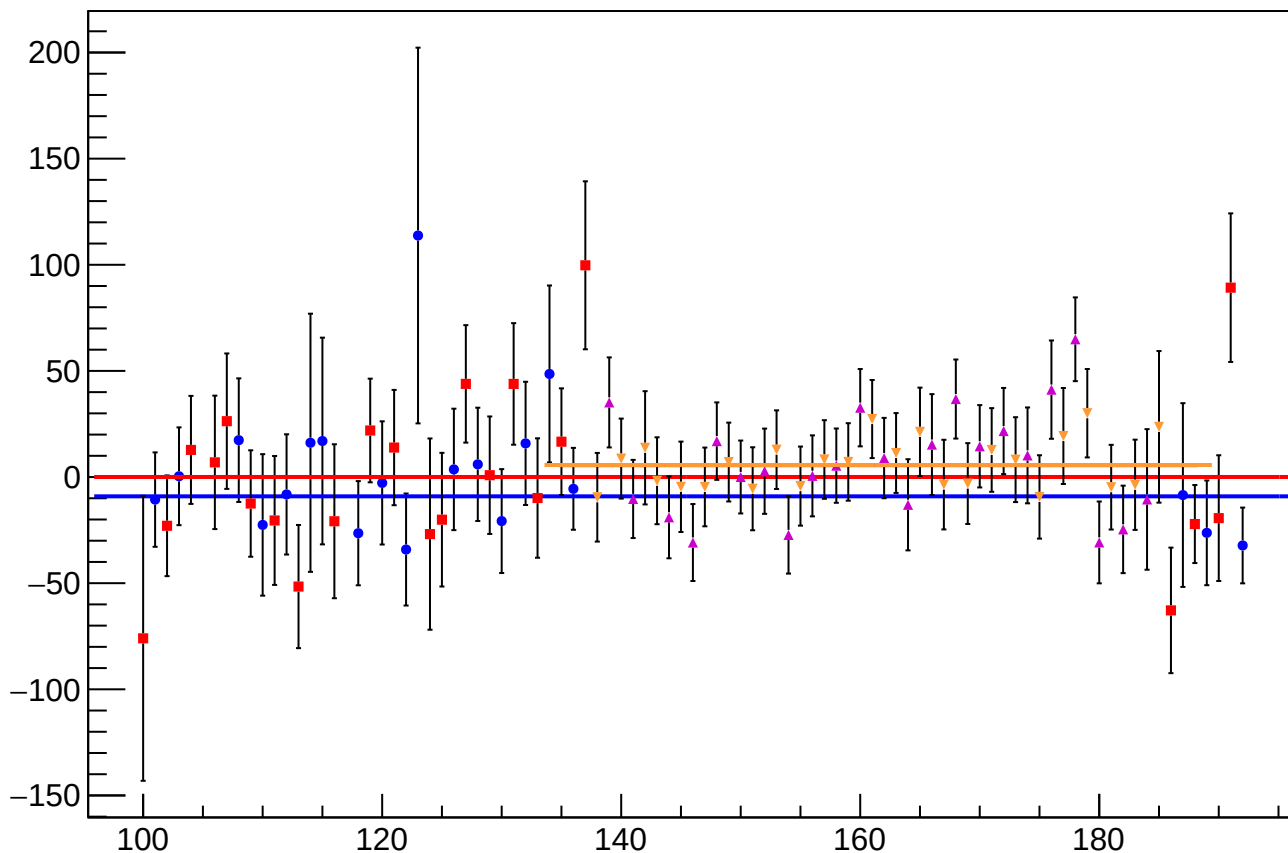
Right: 192.984 $\pm$ 0.035 χ^2 /NDF: 3654598.9/42

In: 186.230 $\pm$ 0.027 χ^2 /NDF:3154206.5/42

Out: 193.360 $\pm$ 0.028 χ^2 /NDF:3973739.7/47

All: 189.780 $\pm$ 0.019 χ^2 /NDF: 7161659.4/90

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.087 ± 6.154 χ^2/NDF : 10.6/19

Left Out: 5.680 ± 4.024 χ^2/NDF : 7.7/24

Right Out: 0.029 ± 5.969 χ^2/NDF : 33.9/22

Left In: 5.595 ± 4.121 χ^2/NDF : 36.4/22

Left: 5.639 ± 2.879 χ^2/NDF : 44.1/47

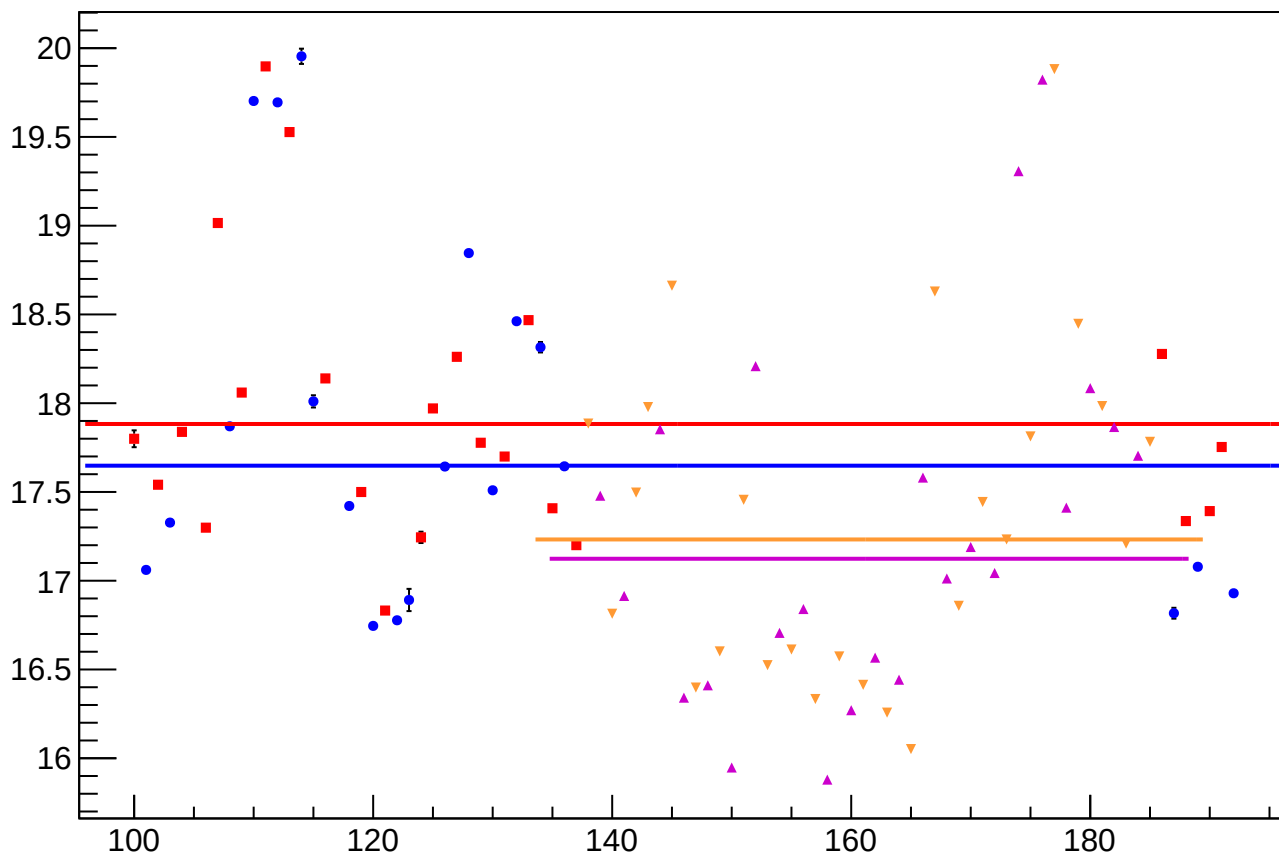
Right: -4.389 ± 4.284 χ^2/NDF : 45.6/42

In: 1.049 ± 3.424 χ^2/NDF : 50.9/42

Out: 3.915 ± 3.336 χ^2/NDF : 42.3/47

All: 2.519 ± 2.390 χ^2/NDF : 93.5/90

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.648 ± 0.004 $\chi^2/\text{NDF}: 38586.0/19$

Left Out: 17.232 ± 0.003 $\chi^2/\text{NDF}: 98701.0/24$

Right Out: 17.883 ± 0.004 $\chi^2/\text{NDF}: 28327.8/22$

Left In: 17.124 ± 0.003 $\chi^2/\text{NDF}: 100747.0/22$

Left: 17.179 ± 0.002 $\chi^2/\text{NDF}: 200160.6/47$

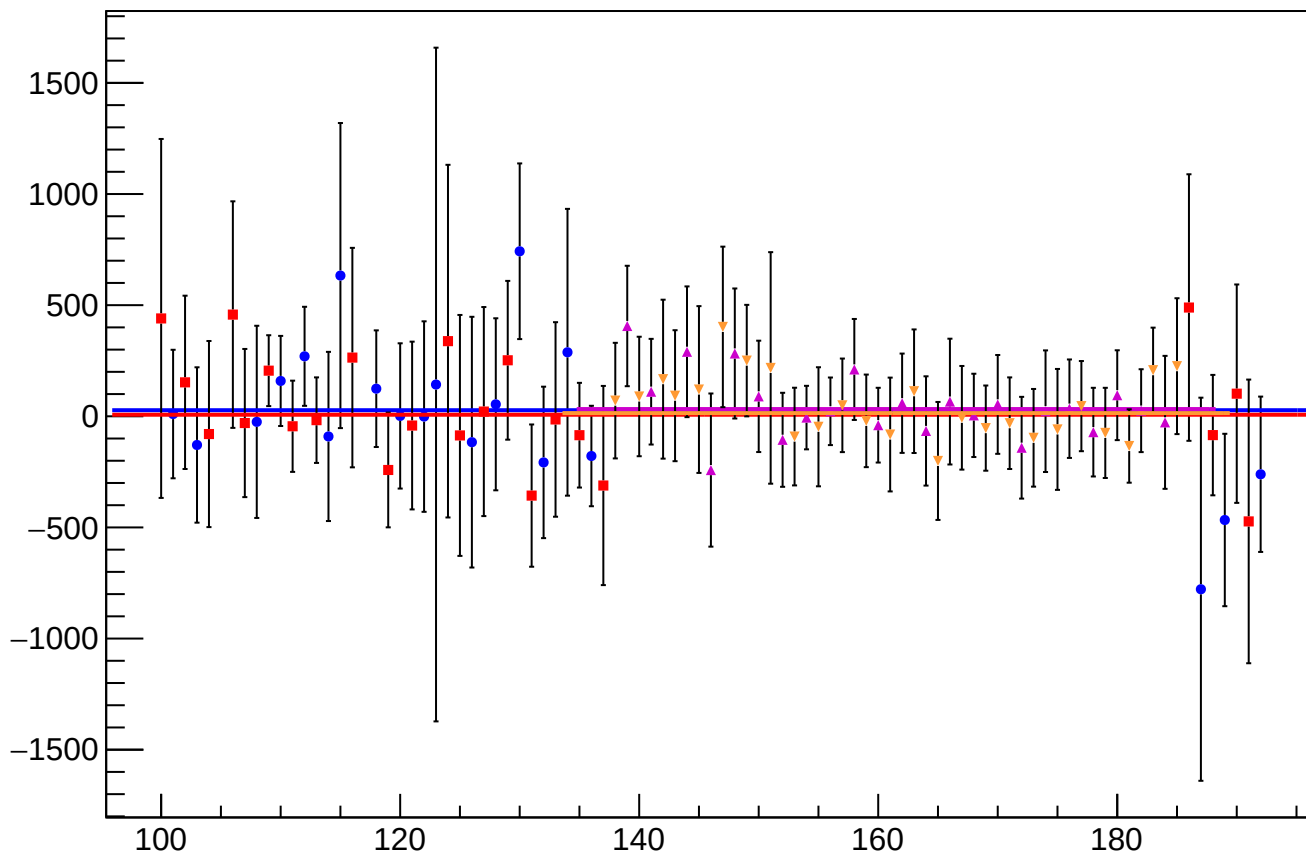
Right: 17.769 ± 0.003 $\chi^2/\text{NDF}: 68414.8/42$

In: 17.286 ± 0.002 $\chi^2/\text{NDF}: 149355.3/42$

Out: 17.436 ± 0.002 $\chi^2/\text{NDF}: 143360.2/47$

All: 17.363 ± 0.002 $\chi^2/\text{NDF}: 294674.1/90$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 27.362 $\pm$ 76.298 χ^2 /NDF: 10.8/19

Left Out: 14.362 $\pm$ 48.130 χ^2 /NDF:6.9/24

Right Out: 7.054 $\pm$ 67.231 χ^2 /NDF: 8.1/22

Left In: 32.571 $\pm$ 45.248 χ^2 /NDF:6.7/22

Left: 24.028 $\pm$ 32.967 χ^2 /NDF: 13.7/47

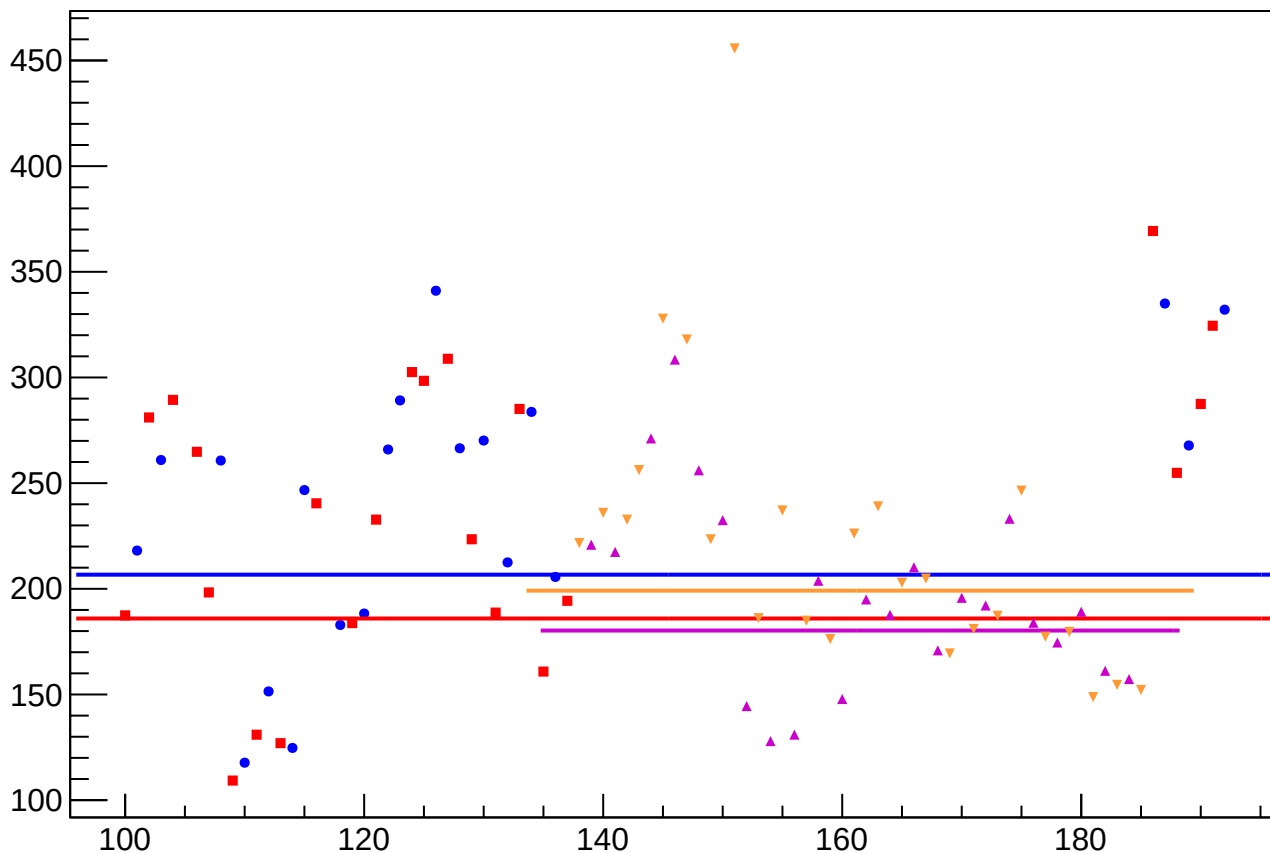
Right: 15.930 $\pm$ 50.442 χ^2 /NDF: 19.0/42

In: 31.215 $\pm$ 38.918 χ^2 /NDF:17.6/42

Out: 11.886 $\pm$ 39.135 χ^2 /NDF:15.0/47

All: 21.604 $\pm$ 27.596 χ^2 /NDF: 32.7/90

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.691 $\pm$ 0.054 χ^2 /NDF: 1350659.0/19

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 185.949 $\pm$ 0.048 χ^2 /NDF: 2051492.6/22

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

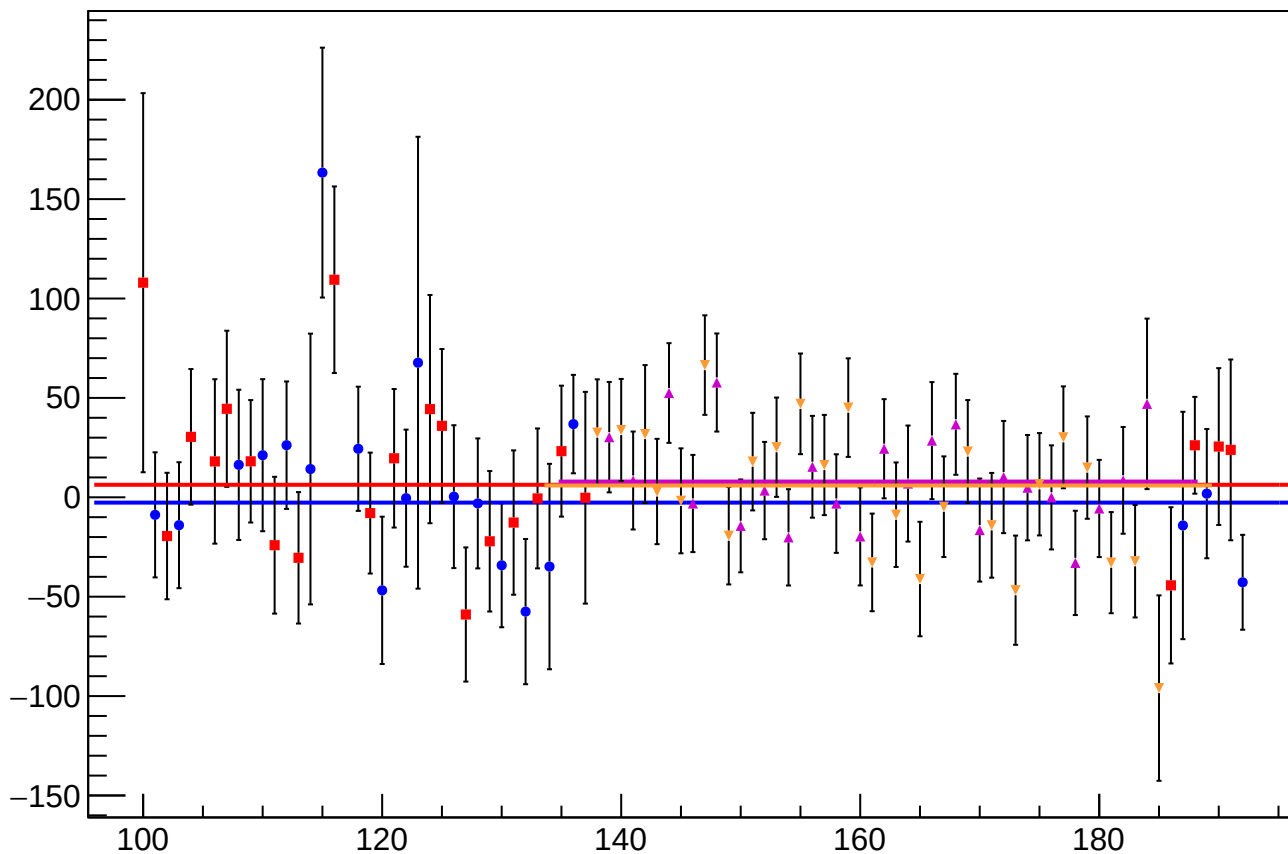
Right: 195.015 $\pm$ 0.036 χ^2 /NDF: 3485360.3/42

In: 187.134 $\pm$ 0.028 χ^2 /NDF:3108826.4/42

Out: 194.667 $\pm$ 0.028 χ^2 /NDF:3862664.6/47

All: 190.880 $\pm$ 0.020 χ^2 /NDF: 7008749.8/90

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.678 ± 7.905 $\chi^2/\text{NDF}: 20.3/19$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: 6.296 ± 7.599 $\chi^2/\text{NDF}: 19.4/22$

Left In: 7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

Left: 6.901 ± 3.784 $\chi^2/\text{NDF}: 54.9/47$

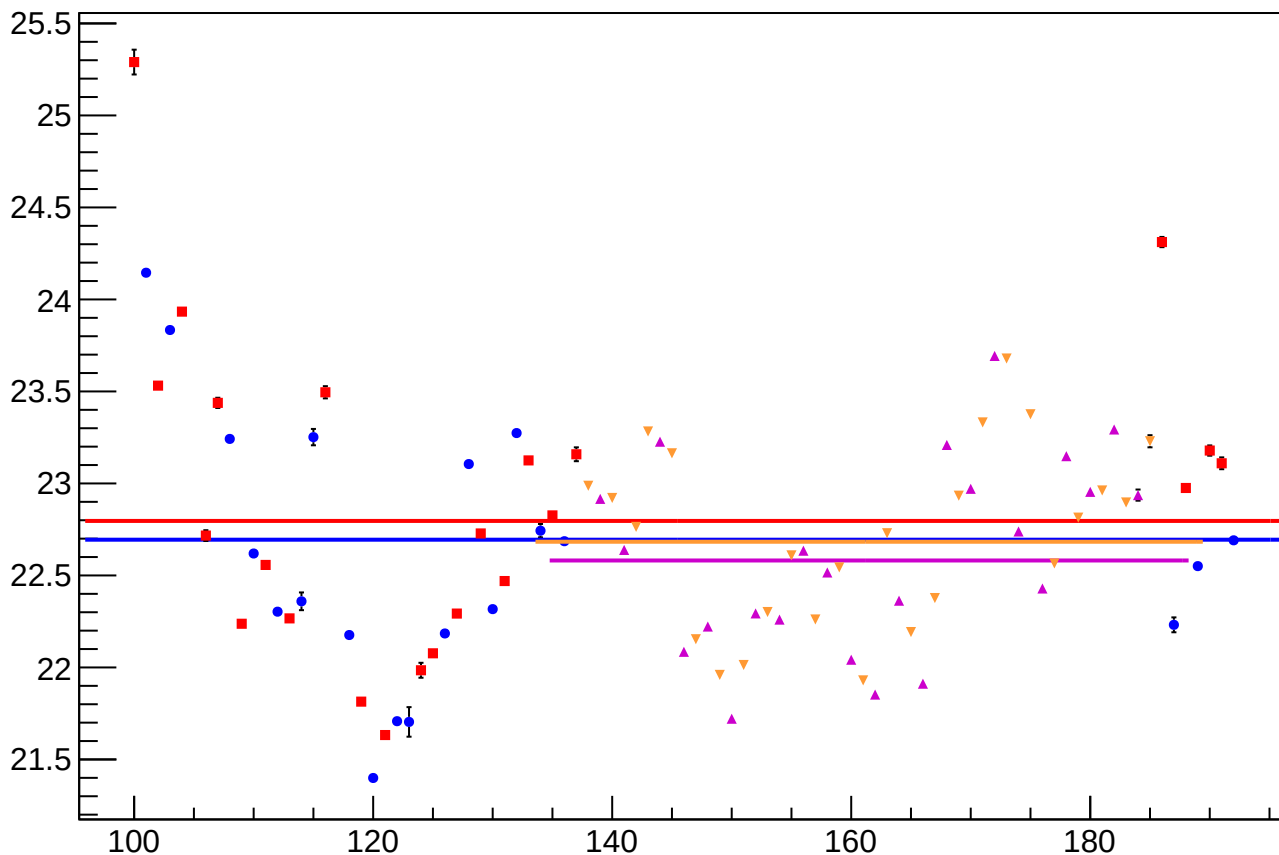
Right: 1.986 ± 5.478 $\chi^2/\text{NDF}: 40.4/42$

In: 4.526 ± 4.471 $\chi^2/\text{NDF}: 40.2/42$

Out: 6.054 ± 4.339 $\chi^2/\text{NDF}: 55.5/47$

All: 5.313 ± 3.114 $\chi^2/\text{NDF}: 95.8/90$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.694+/-0.006 χ^2/NDF : 14240.4/19

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.796+/-0.005 χ^2/NDF : 16570.0/22

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

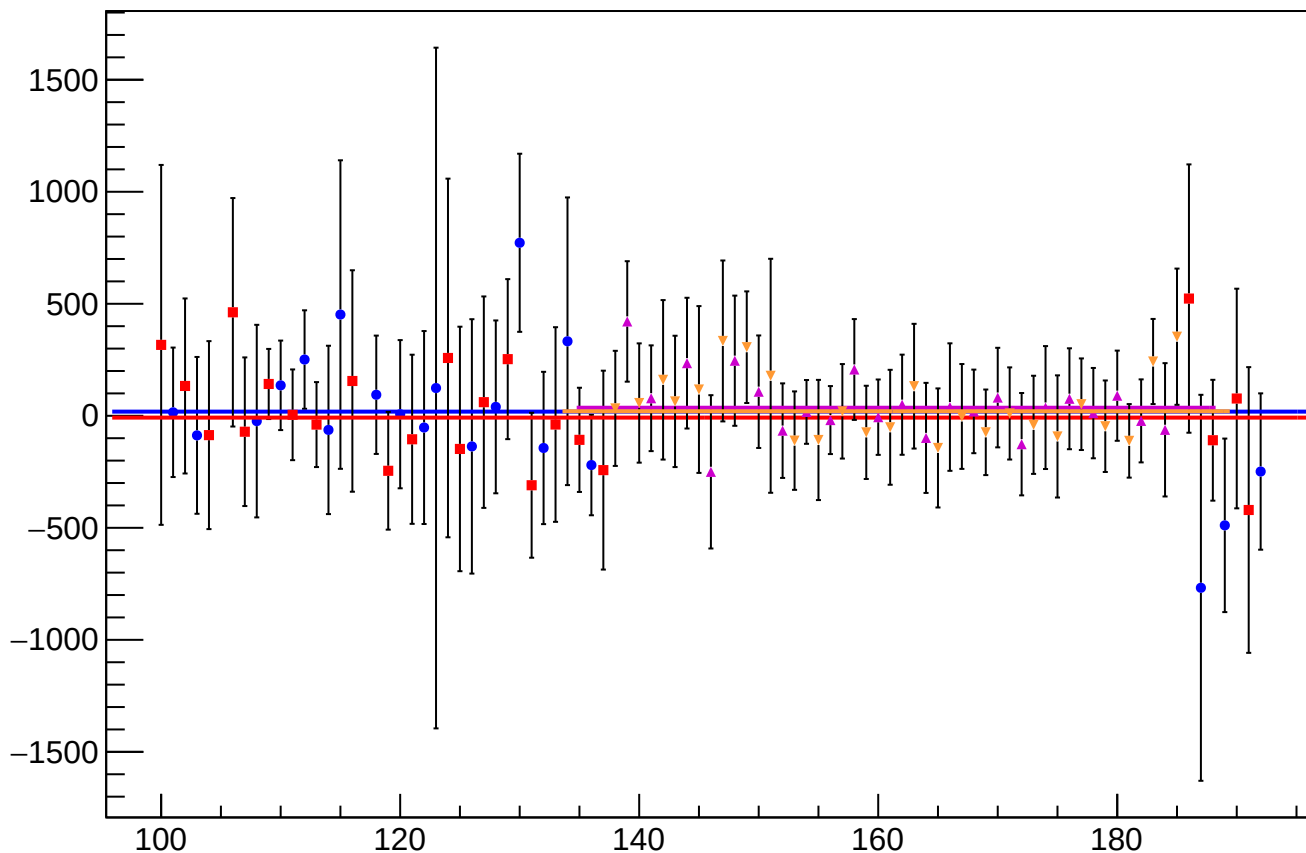
Right: 22.747+/-0.004 χ^2/NDF : 30983.6/42

In: 22.617+/-0.003 χ^2/NDF : 32422.6/42

Out: 22.720+/-0.003 χ^2/NDF : 33188.7/47

All: 22.670+/-0.002 χ^2/NDF : 66153.7/90

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 18.663 $\pm$ 75.994 χ^2 /NDF: 10.5/19

Left Out: 20.306 $\pm$ 48.049 χ^2 /NDF:7.7/24

Right Out: -8.052 $\pm$ 66.787 χ^2 /NDF: 6.6/22

Left In: 35.996 $\pm$ 45.180 χ^2 /NDF:6.1/22

Left: 28.633 $\pm$ 32.915 χ^2 /NDF: 13.8/47

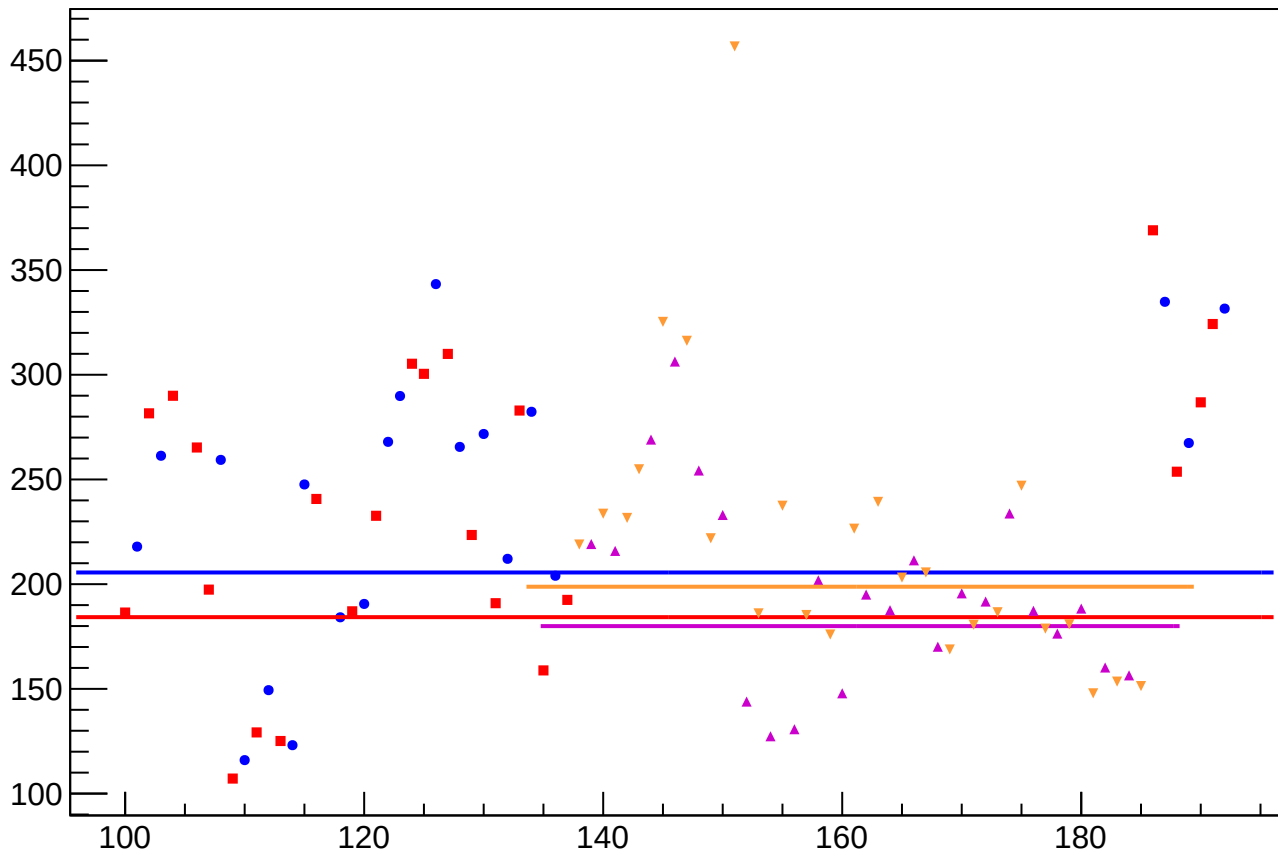
Right: 3.590 $\pm$ 50.167 χ^2 /NDF: 17.2/42

In: 31.469 $\pm$ 38.835 χ^2 /NDF:16.6/42

Out: 10.634 $\pm$ 39.004 χ^2 /NDF:14.4/47

All: 21.097 $\pm$ 27.520 χ^2 /NDF: 31.2/90

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.580 $\pm$ 0.054 χ^2 /NDF: 1395682.6/19

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 184.249 $\pm$ 0.047 χ^2 /NDF: 2129574.9/22

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

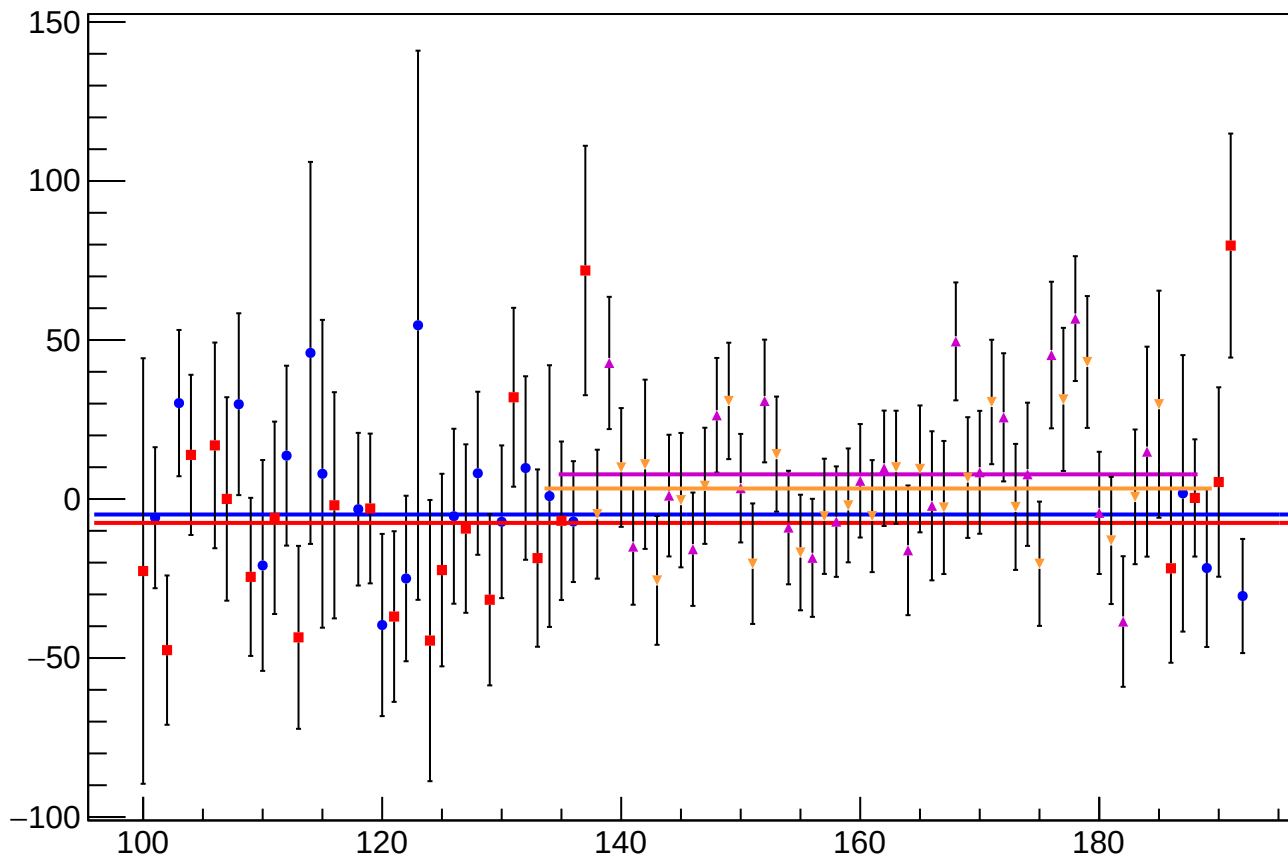
Right: 193.545 $\pm$ 0.035 χ^2 /NDF: 3614164.9/42

In: 186.660 $\pm$ 0.027 χ^2 /NDF:3139366.0/42

Out: 193.827 $\pm$ 0.028 χ^2 /NDF:3950476.5/47

All: 190.228 $\pm$ 0.019 χ^2 /NDF: 7123755.4/90

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.869 ± 6.089 χ^2/NDF : 10.9/19

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -7.514 ± 5.905 χ^2/NDF : 22.3/22

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

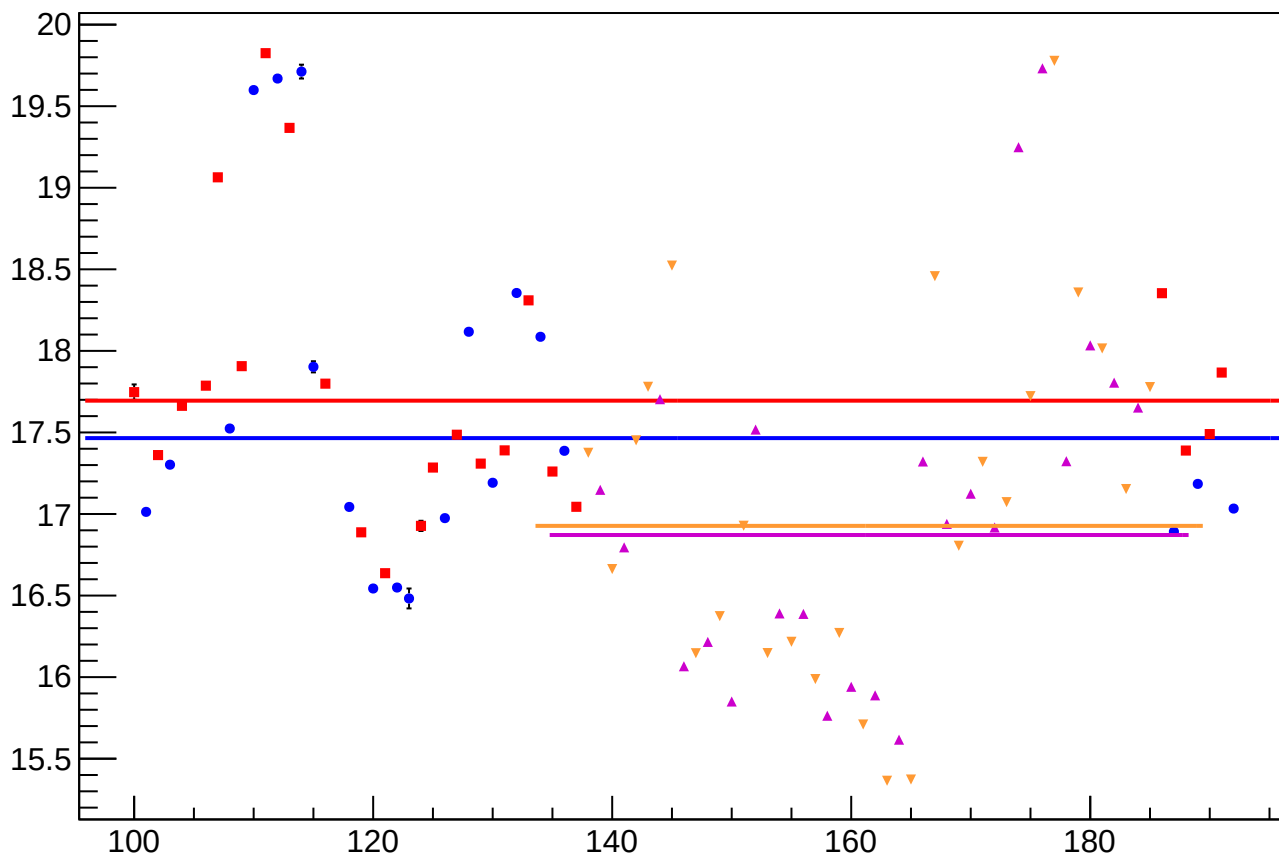
Right: -6.232 ± 4.239 χ^2/NDF : 33.3/42

In: 3.870 ± 3.378 χ^2/NDF : 48.1/42

Out: -0.042 ± 3.285 χ^2/NDF : 43.3/47

All: 1.859 ± 2.355 χ^2/NDF : 92.1/90

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.465 $\pm$ 0.004 χ^2 /NDF: 36104.3/19

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.695 $\pm$ 0.004 χ^2 /NDF: 31934.0/22

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

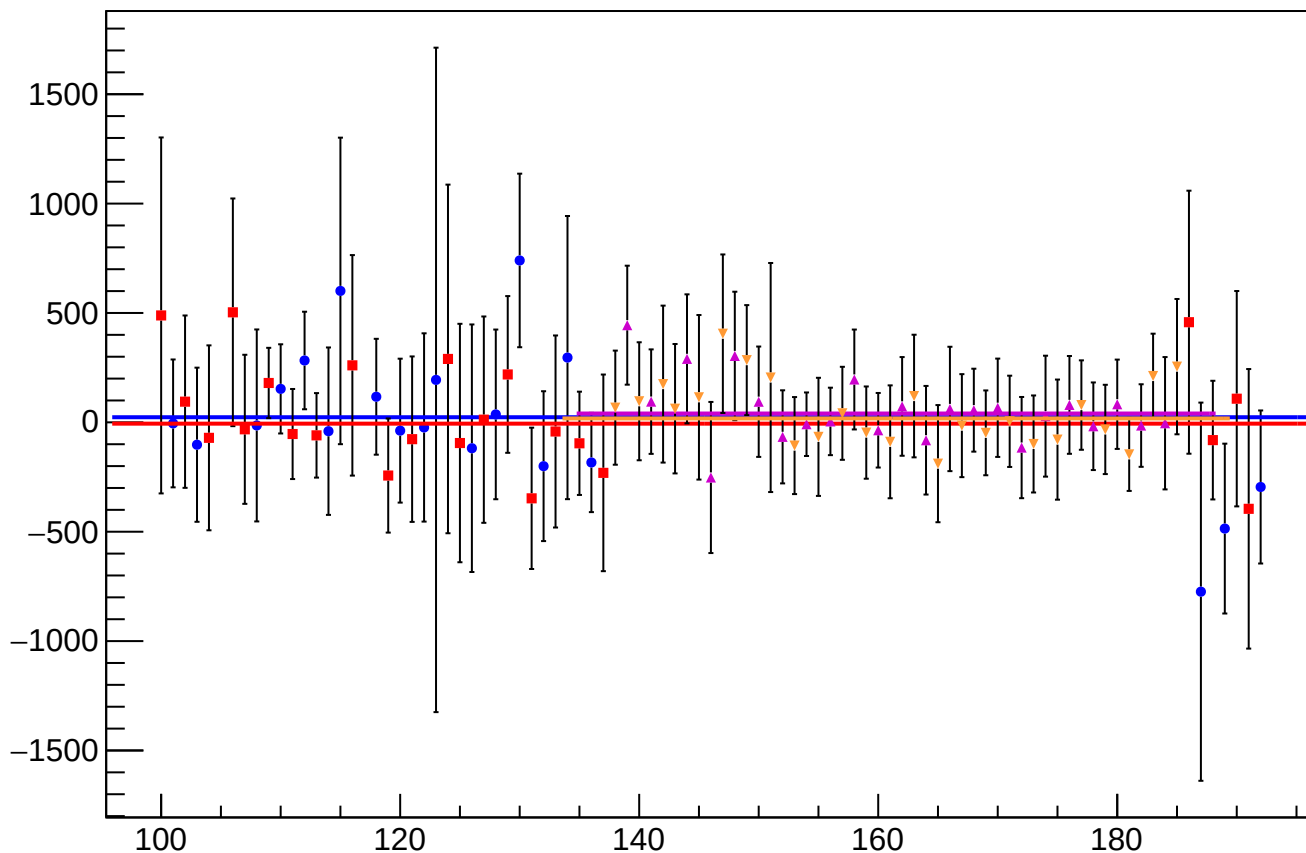
Right: 17.584 $\pm$ 0.003 χ^2 /NDF: 69503.2/42

In: 17.054 $\pm$ 0.002 χ^2 /NDF:167270.9/42

Out: 17.165 $\pm$ 0.002 χ^2 /NDF:193798.2/47

All: 17.111 $\pm$ 0.002 χ^2 /NDF: 362173.4/90

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 23.376 $\pm$ 76.707 χ^2 /NDF: 11.0/19

Left Out: 17.828 $\pm$ 48.547 χ^2 /NDF: 7.5/24

Right Out: -5.987 $\pm$ 67.662 χ^2 /NDF: 7.2/22

Left In: 40.355 $\pm$ 45.689 χ^2 /NDF: 6.6/22

Left: 29.774 $\pm$ 33.271 χ^2 /NDF: 14.2/47

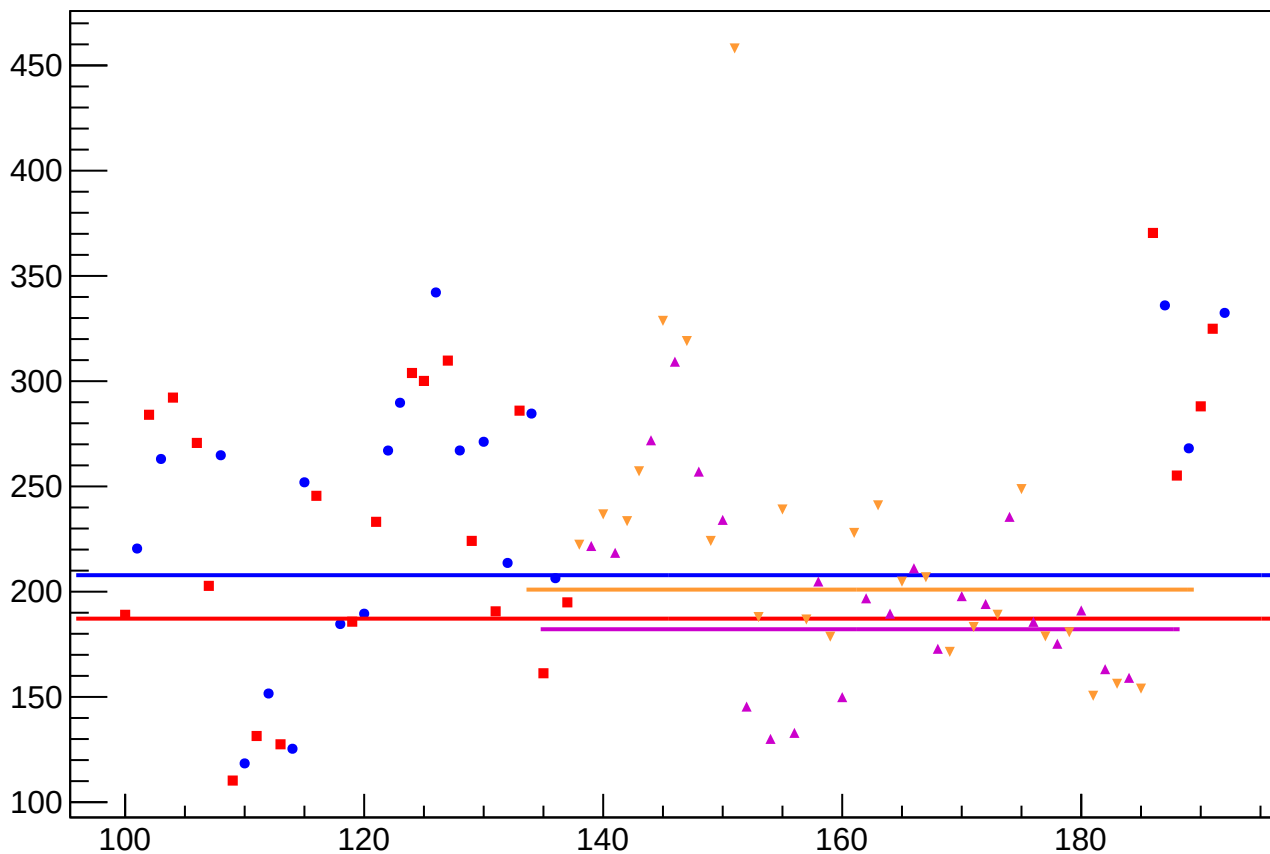
Right: 6.862 $\pm$ 50.742 χ^2 /NDF: 18.2/42

In: 35.909 $\pm$ 39.253 χ^2 /NDF: 17.6/42

Out: 9.735 $\pm$ 39.444 χ^2 /NDF: 14.7/47

All: 22.885 $\pm$ 27.824 χ^2 /NDF: 32.6/90

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 207.834 $\pm$ 0.054 χ^2 /NDF: 1349701.7/19

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 187.191 $\pm$ 0.048 χ^2 /NDF: 2051875.2/22

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2 /NDF: 3422724.8/47

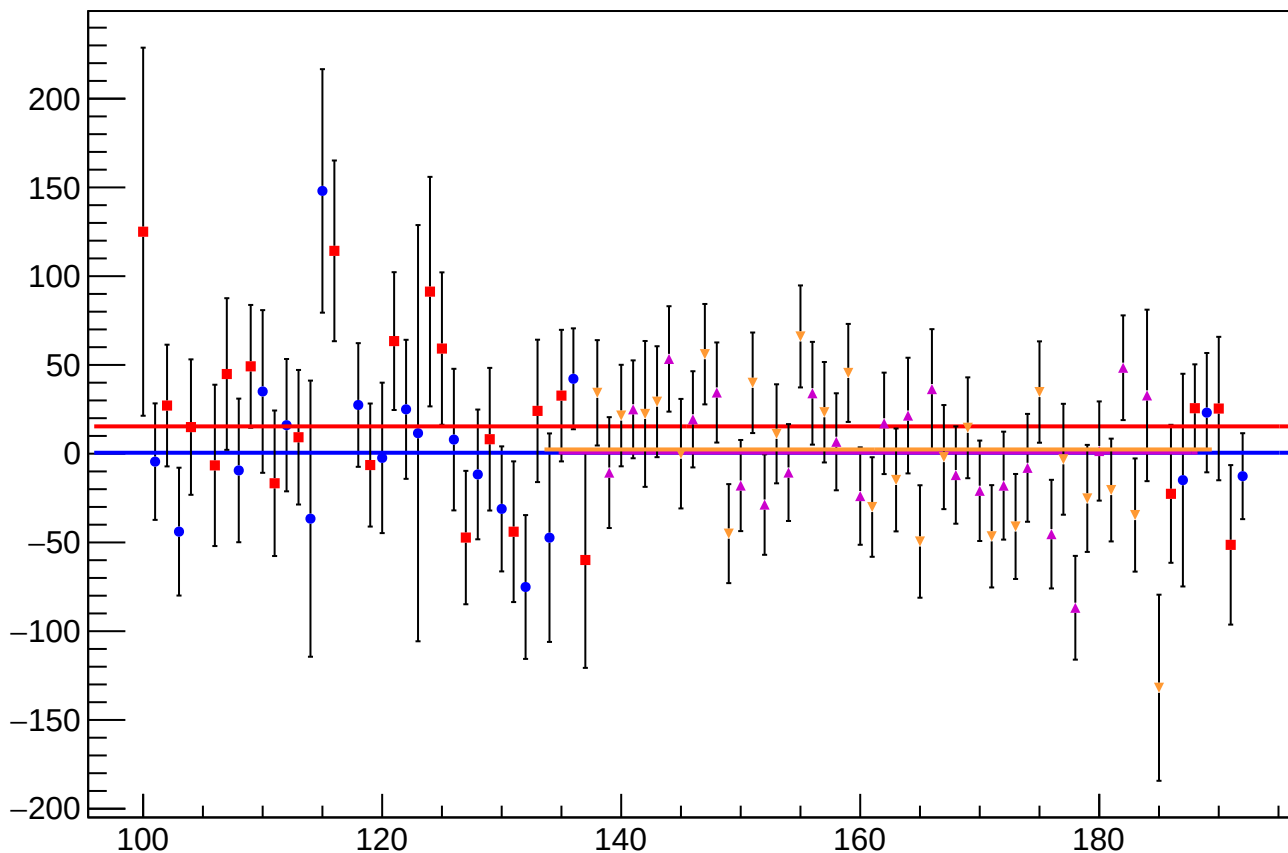
Right: 196.224 $\pm$ 0.036 χ^2 /NDF: 3483038.1/42

In: 188.882 $\pm$ 0.028 χ^2 /NDF:3051021.5/42

Out: 196.297 $\pm$ 0.028 χ^2 /NDF:3834044.1/47

All: 192.571 $\pm$ 0.020 χ^2 /NDF: 6920580.0/90

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.527 ± 8.710 $\chi^2/\text{NDF}: 16.3/19$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 15.384 ± 8.320 $\chi^2/\text{NDF}: 21.9/22$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

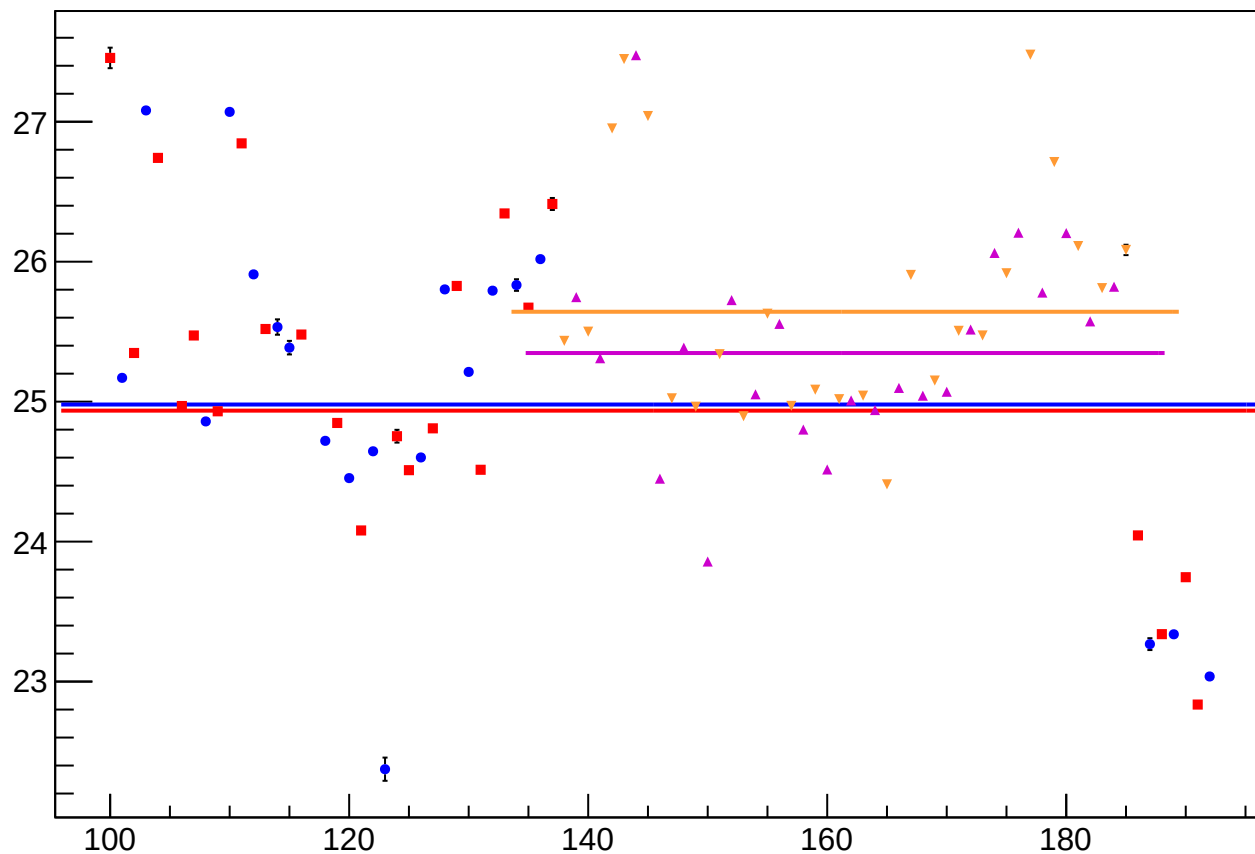
Right: 8.295 ± 6.016 $\chi^2/\text{NDF}: 39.7/42$

In: 0.604 ± 4.992 $\chi^2/\text{NDF}: 43.6/42$

Out: 6.816 ± 4.856 $\chi^2/\text{NDF}: 62.6/47$

All: 3.795 ± 3.481 $\chi^2/\text{NDF}: 107.0/90$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.979 $\pm$ 0.006 χ^2/NDF : 38504.2/19

Left Out: 25.642 $\pm$ 0.004 χ^2/NDF : 34802.2/24

Right Out: 24.936 $\pm$ 0.006 χ^2/NDF : 33684.0/22

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

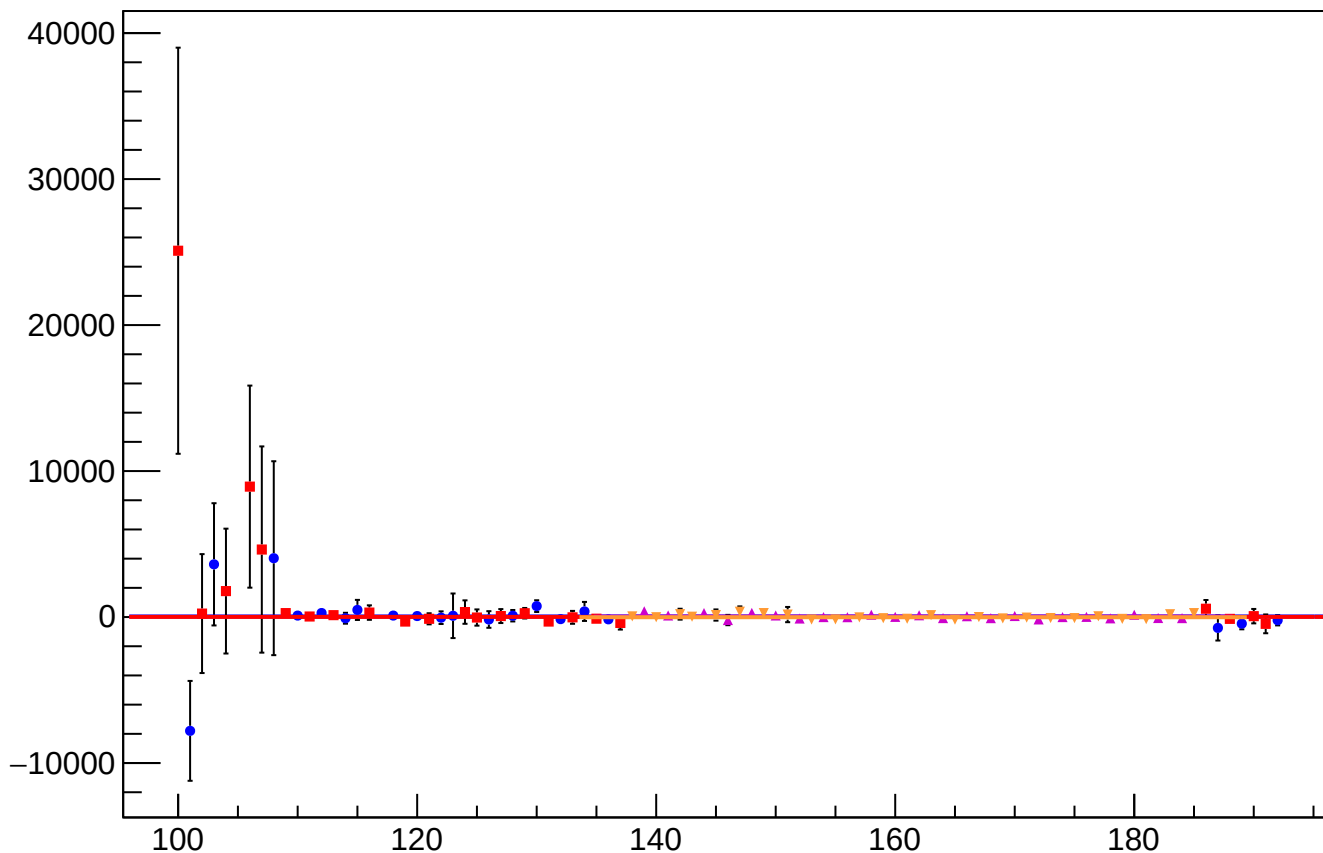
Right: 24.957 $\pm$ 0.004 χ^2/NDF : 72214.5/42

In: 25.227 $\pm$ 0.004 χ^2/NDF : 70290.4/42

Out: 25.402 $\pm$ 0.003 χ^2/NDF : 77995.2/47

All: 25.317 $\pm$ 0.002 χ^2/NDF : 149549.7/90

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 40.174+/-82.969 χ^2/NDF : 15.7/19

Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24

Right Out: 10.867+/-75.470 χ^2/NDF : 13.7/22

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47

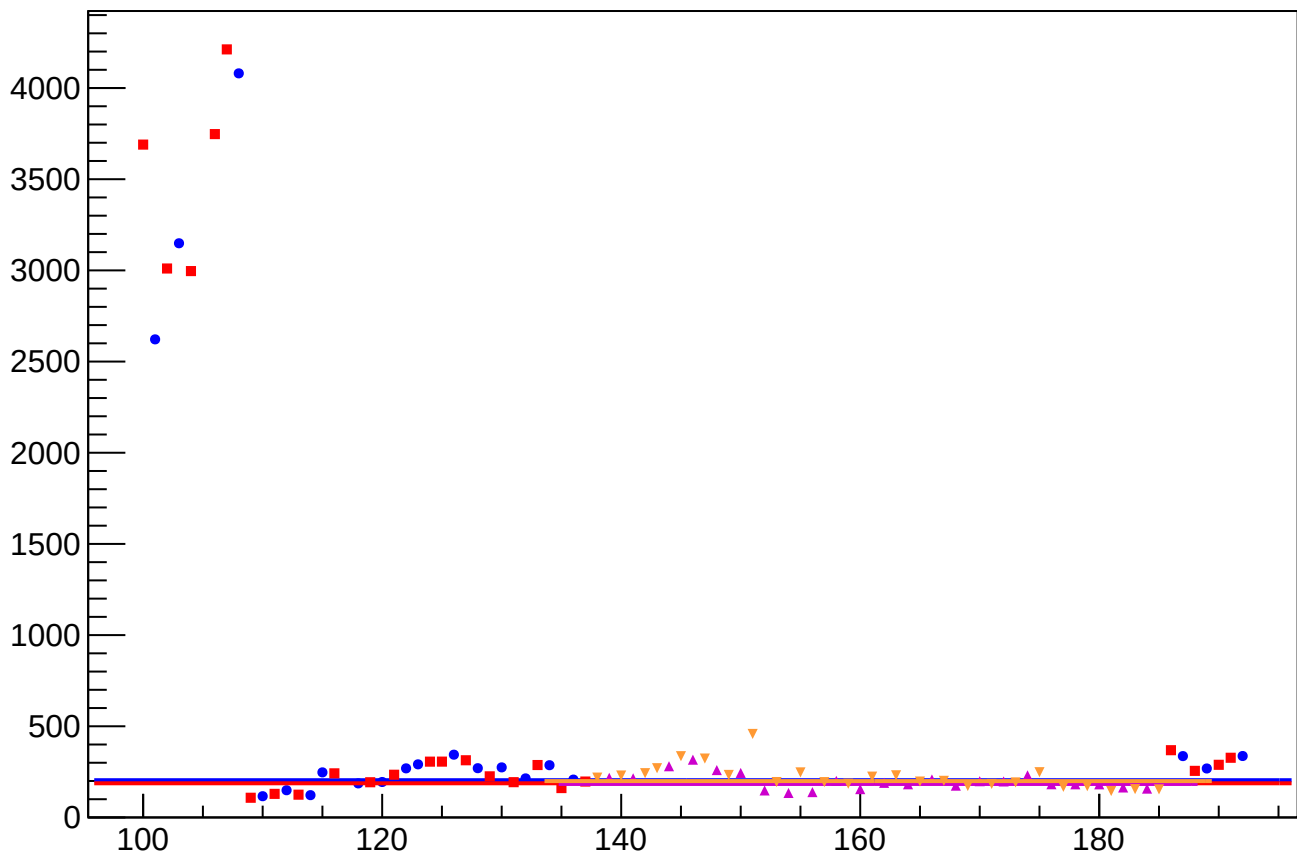
Right: 24.137+/-55.829 χ^2/NDF : 29.5/42

In: 30.172+/-40.230 χ^2/NDF : 22.9/42

Out: -4.959+/-40.660 χ^2/NDF : 21.7/47

All: 12.793+/-28.597 χ^2/NDF : 45.0/90

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.237 $\pm$ 0.059 χ^2 /NDF: 3997742.3/19

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF: 1877848.7/24

Right Out: 187.369 $\pm$ 0.053 χ^2 /NDF: 4752487.4/22

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF: 1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

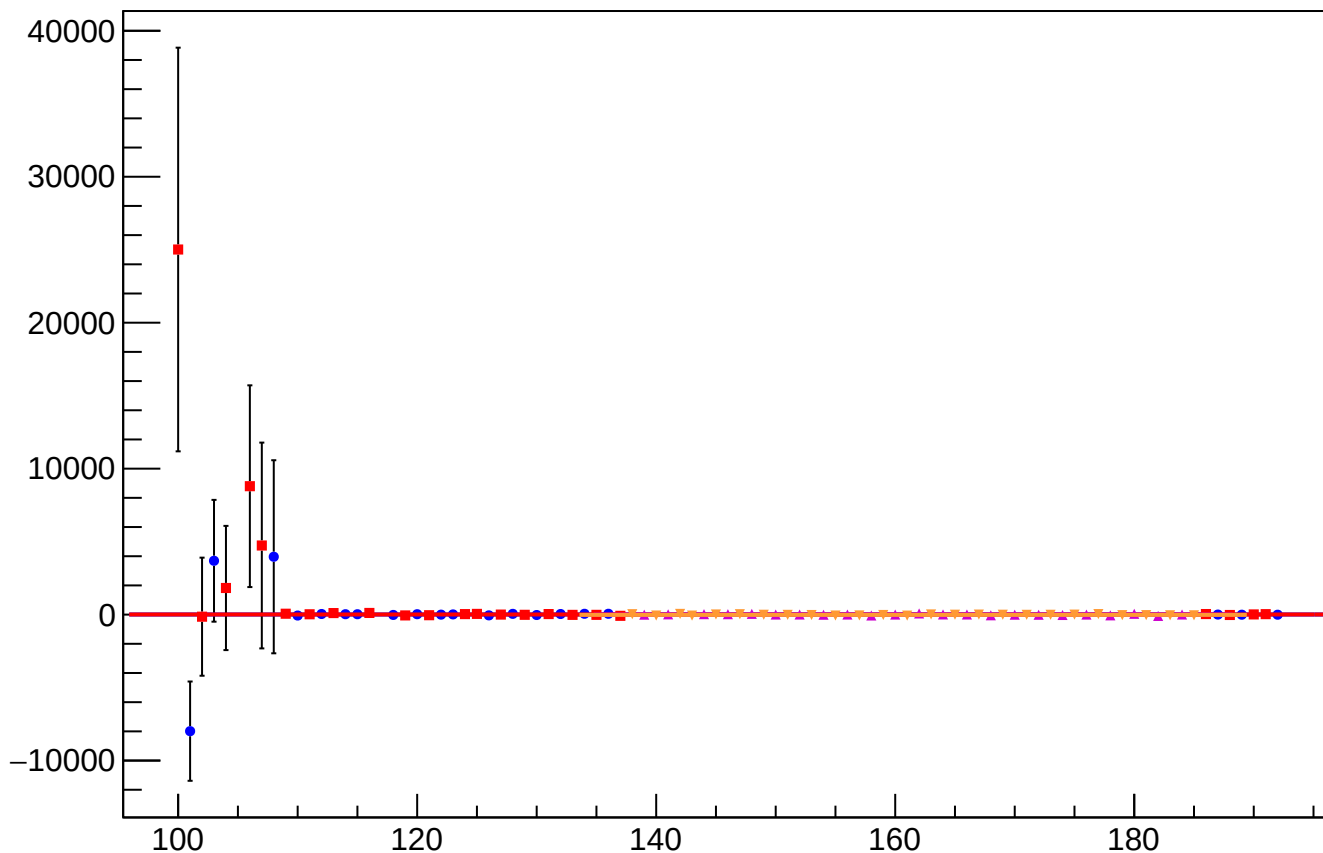
Right: 195.007 $\pm$ 0.039 χ^2 /NDF: 8795466.6/42

In: 188.609 $\pm$ 0.028 χ^2 /NDF: 5503386.8/42

Out: 195.935 $\pm$ 0.029 χ^2 /NDF: 6666636.8/47

All: 192.233 $\pm$ 0.020 χ^2 /NDF: 12202835.6/90

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.160+/-10.643 χ^2/NDF : 18.8/19

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 9.249+/-10.555 χ^2/NDF : 25.8/22

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

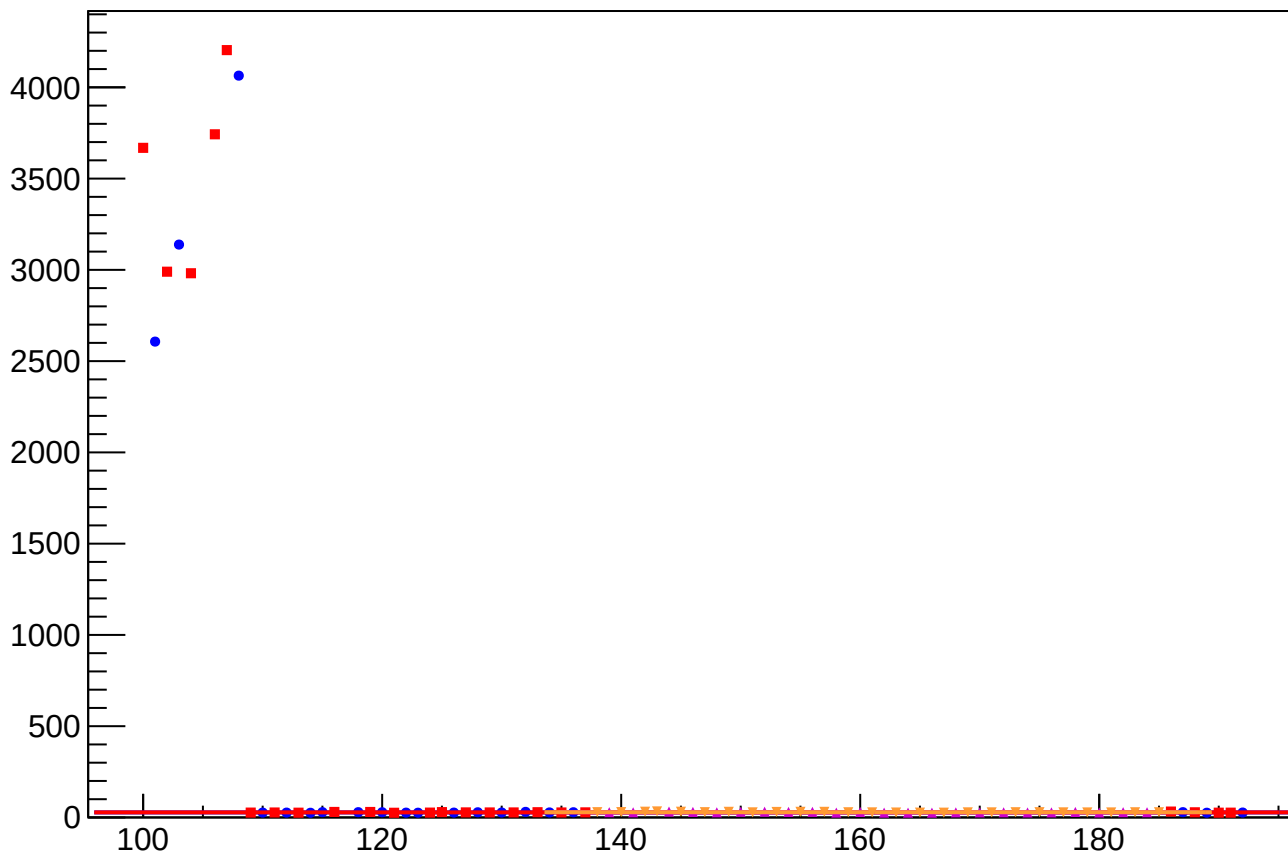
Right: 8.213+/-7.494 χ^2/NDF : 44.6/42

In: 3.014+/-5.794 χ^2/NDF : 51.0/42

Out: -10.251+/-5.659 χ^2/NDF : 52.3/47

All: -3.776+/-4.048 χ^2/NDF : 106.0/90

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.598 $\pm$ 0.008 χ^2 /NDF: 3033662.2/19

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.817 $\pm$ 0.007 χ^2 /NDF: 3496096.7/22

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

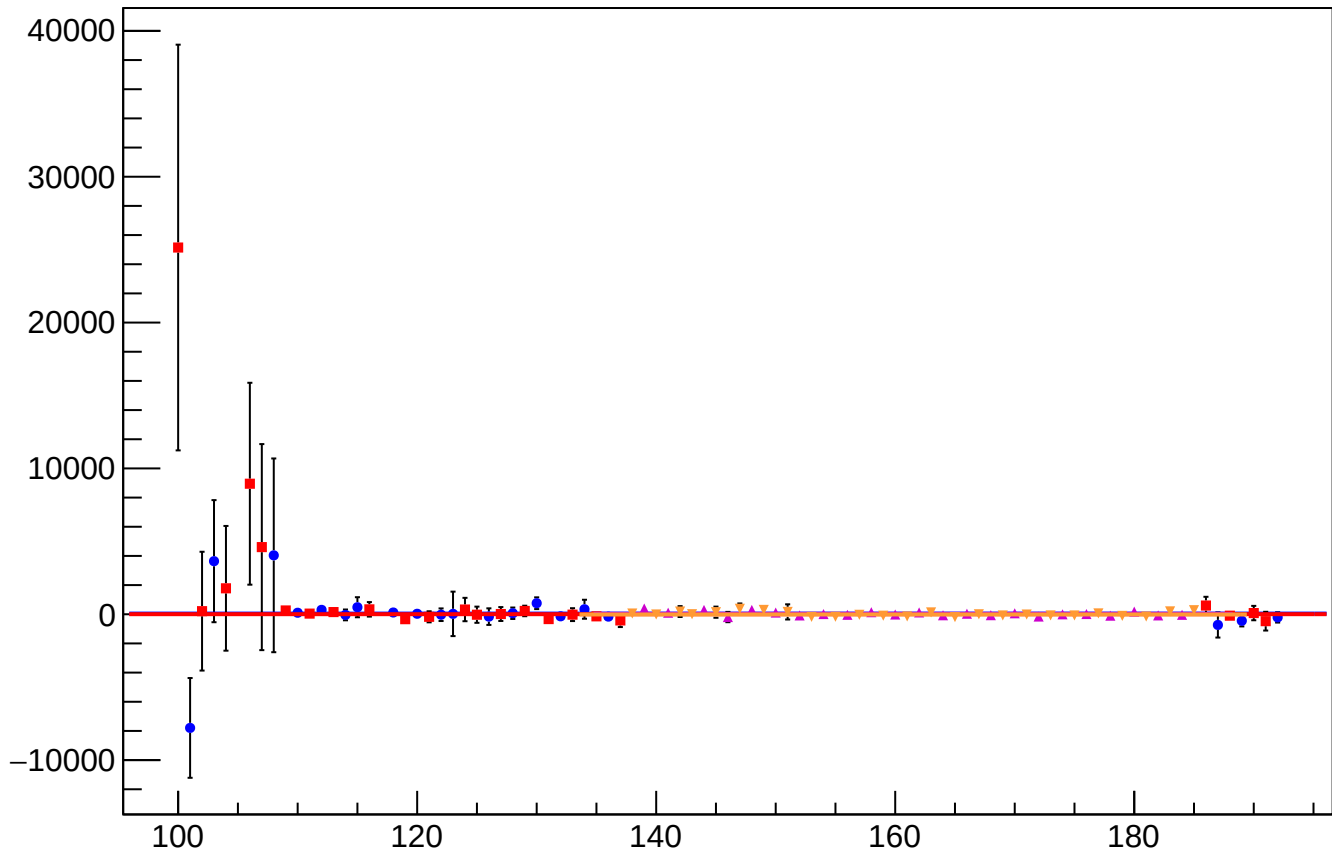
Right: 27.708 $\pm$ 0.005 χ^2 /NDF: 6530188.8/42

In: 28.357 $\pm$ 0.004 χ^2 /NDF: 3171946.8/42

Out: 28.442 $\pm$ 0.004 χ^2 /NDF: 3616389.6/47

All: 28.400 $\pm$ 0.003 χ^2 /NDF: 6788556.4/90

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 44.831+/-82.723 χ^2/NDF : 16.0/19

Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24

Right Out: 5.217+/-75.257 χ^2/NDF : 14.5/22

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

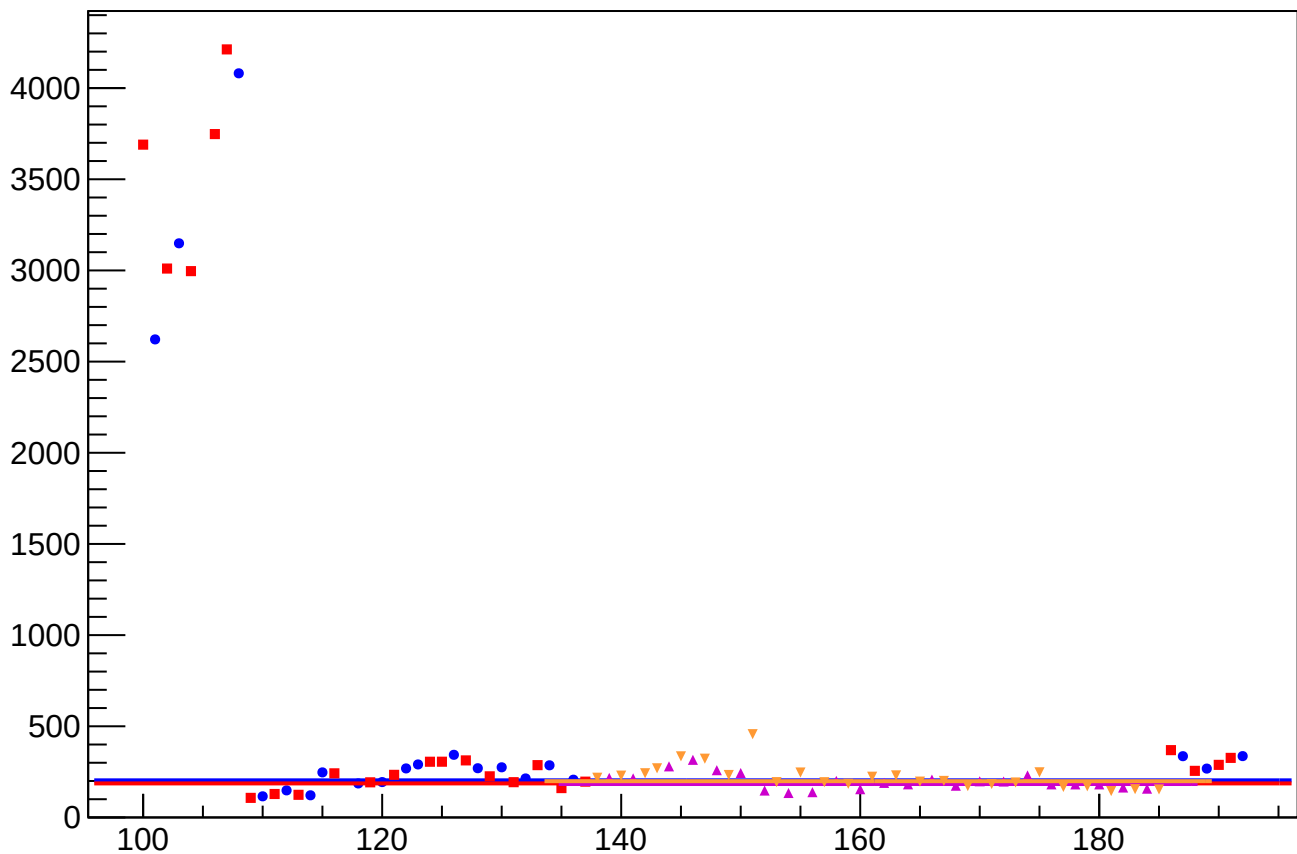
Right: 23.156+/-55.667 χ^2/NDF : 30.6/42

In: 31.418+/-40.140 χ^2/NDF : 23.5/42

Out: -8.331+/-40.562 χ^2/NDF : 23.3/47

All: 11.751+/-28.531 χ^2/NDF : 47.3/90

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 203.513 $\pm$ 0.058 χ^2 /NDF: 4012319.7/19

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 186.711 $\pm$ 0.053 χ^2 /NDF: 4769797.9/22

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

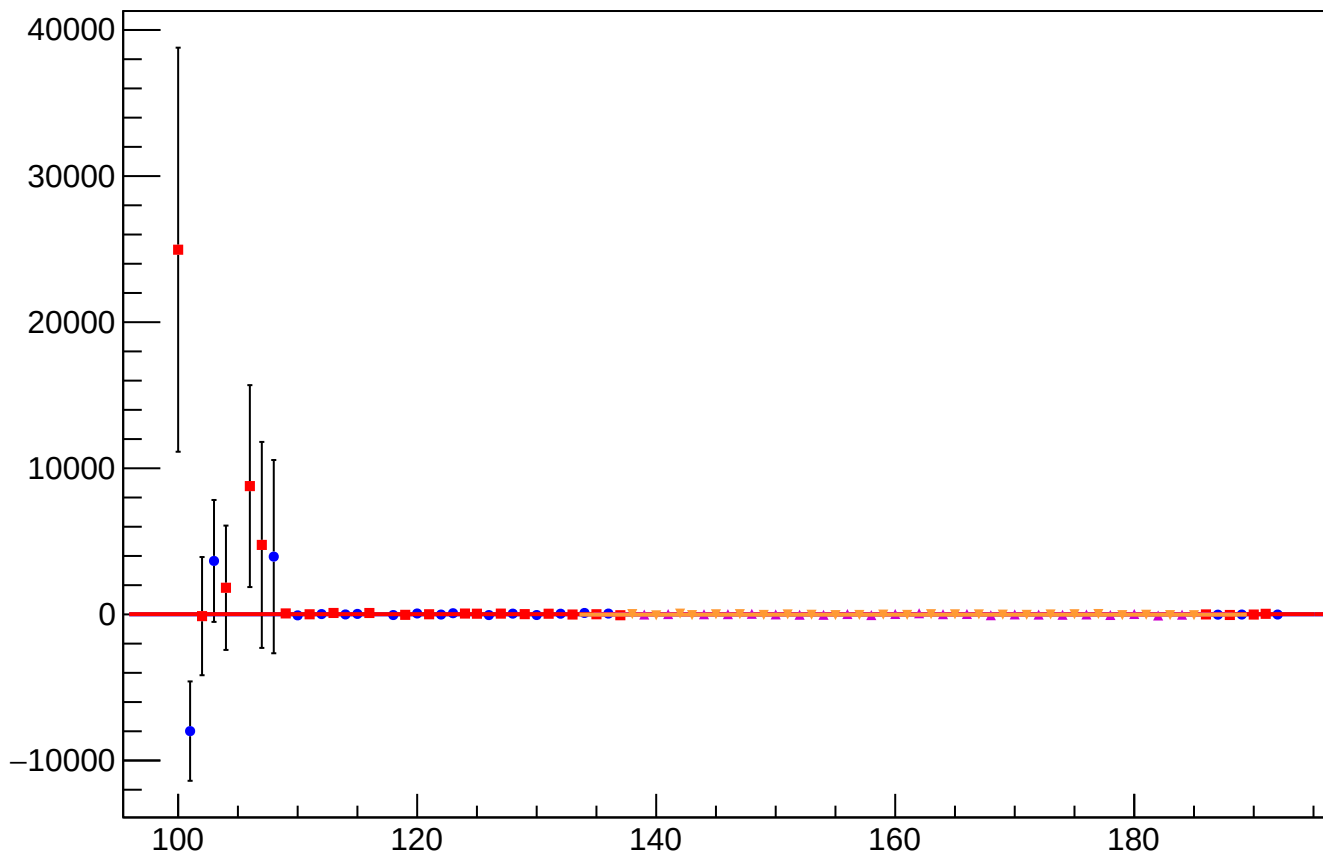
Right: 194.320 $\pm$ 0.039 χ^2 /NDF: 8827264.2/42

In: 188.168 $\pm$ 0.028 χ^2 /NDF:5514684.2/42

Out: 195.428 $\pm$ 0.029 χ^2 /NDF:6685249.9/47

All: 191.760 $\pm$ 0.020 χ^2 /NDF: 12232304.2/90

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.478 ± 10.693 $\chi^2/\text{NDF}: 23.2/19$

Left Out: -15.829 ± 6.733 $\chi^2/\text{NDF}: 16.5/24$

Right Out: 16.939 ± 10.599 $\chi^2/\text{NDF}: 21.3/22$

Left In: -0.498 ± 6.937 $\chi^2/\text{NDF}: 26.1/22$

Left: -8.392 ± 4.831 $\chi^2/\text{NDF}: 45.1/47$

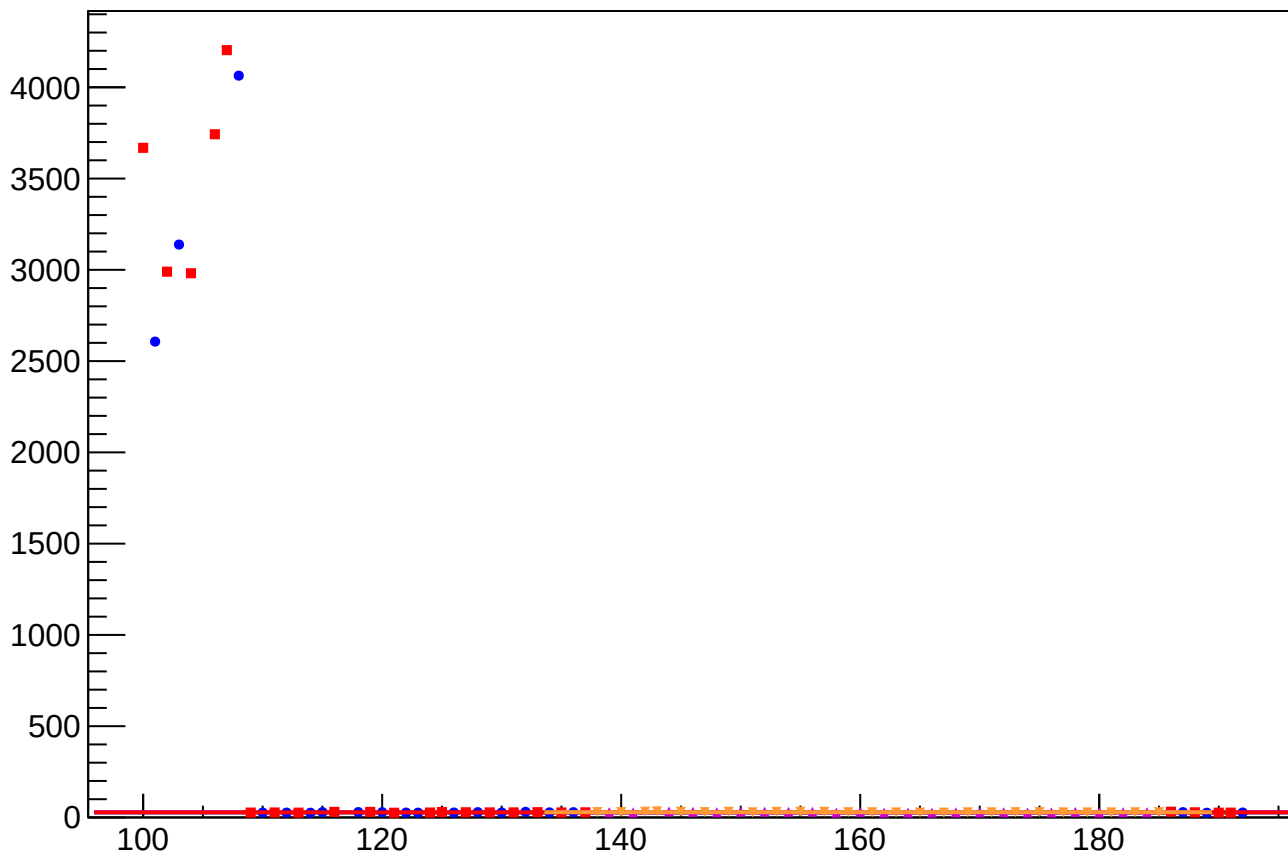
Right: 10.764 ± 7.528 $\chi^2/\text{NDF}: 45.2/42$

In: 0.976 ± 5.820 $\chi^2/\text{NDF}: 49.4/42$

Out: -6.407 ± 5.683 $\chi^2/\text{NDF}: 44.6/47$

All: -2.803 ± 4.066 $\chi^2/\text{NDF}: 94.9/90$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.723+/-0.008 χ^2/NDF : 3035896.6/19

Left Out: 28.814+/-0.005 χ^2/NDF :122153.6/24

Right Out: 27.934+/-0.007 χ^2/NDF : 3493947.8/22

Left In: 28.797+/-0.005 χ^2/NDF :128279.2/22

Left: 28.806+/-0.003 χ^2/NDF : 250439.0/47

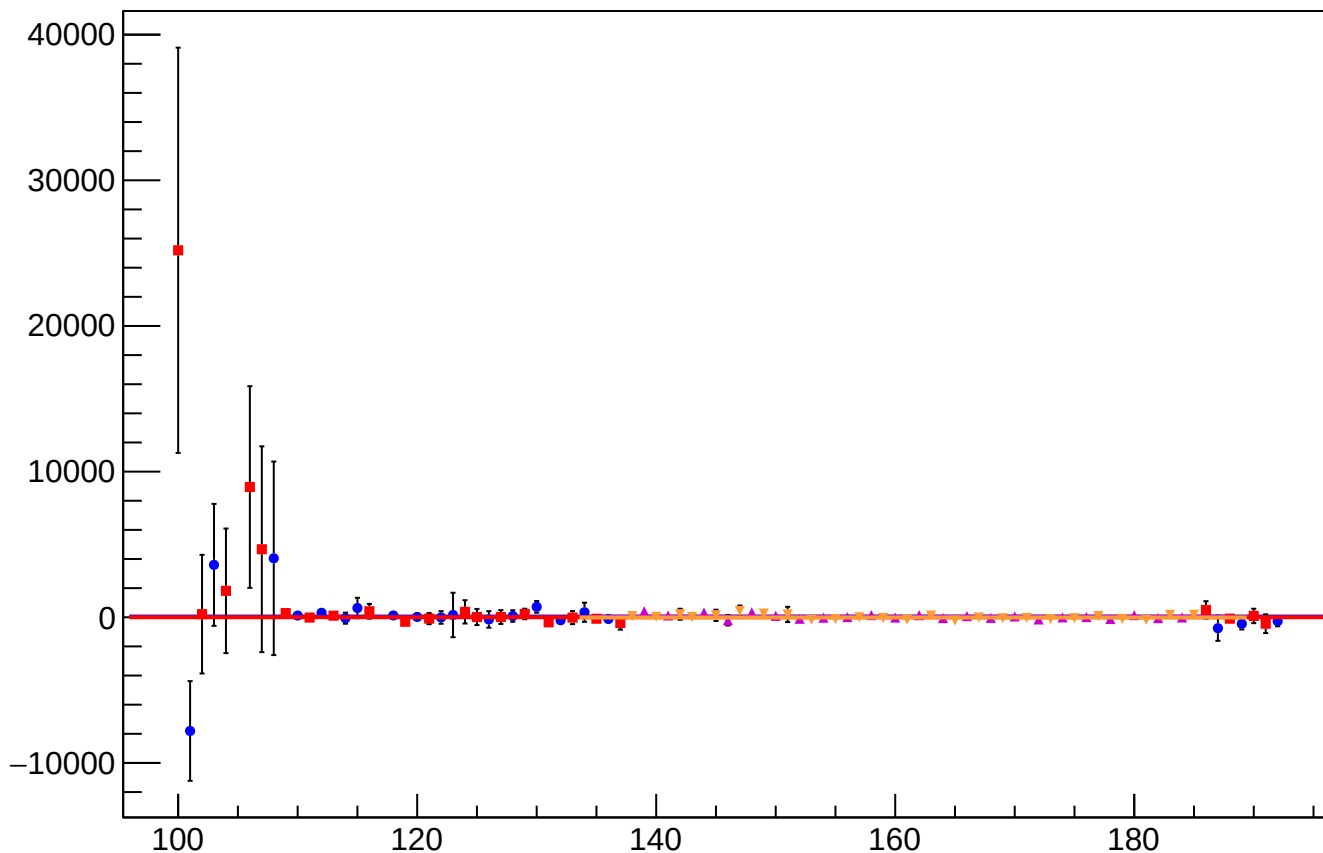
Right: 27.830+/-0.005 χ^2/NDF : 6530237.8/42

In: 28.479+/-0.004 χ^2/NDF :3178378.4/42

Out: 28.561+/-0.004 χ^2/NDF :3625922.9/47

All: 28.521+/-0.003 χ^2/NDF : 6804505.0/90

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.005+/-83.625 χ^2/NDF : 16.2/19

Left Out: -13.966+/-48.735 χ^2/NDF : 8.1/24

Right Out: 3.511+/-76.179 χ^2/NDF : 13.6/22

Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47

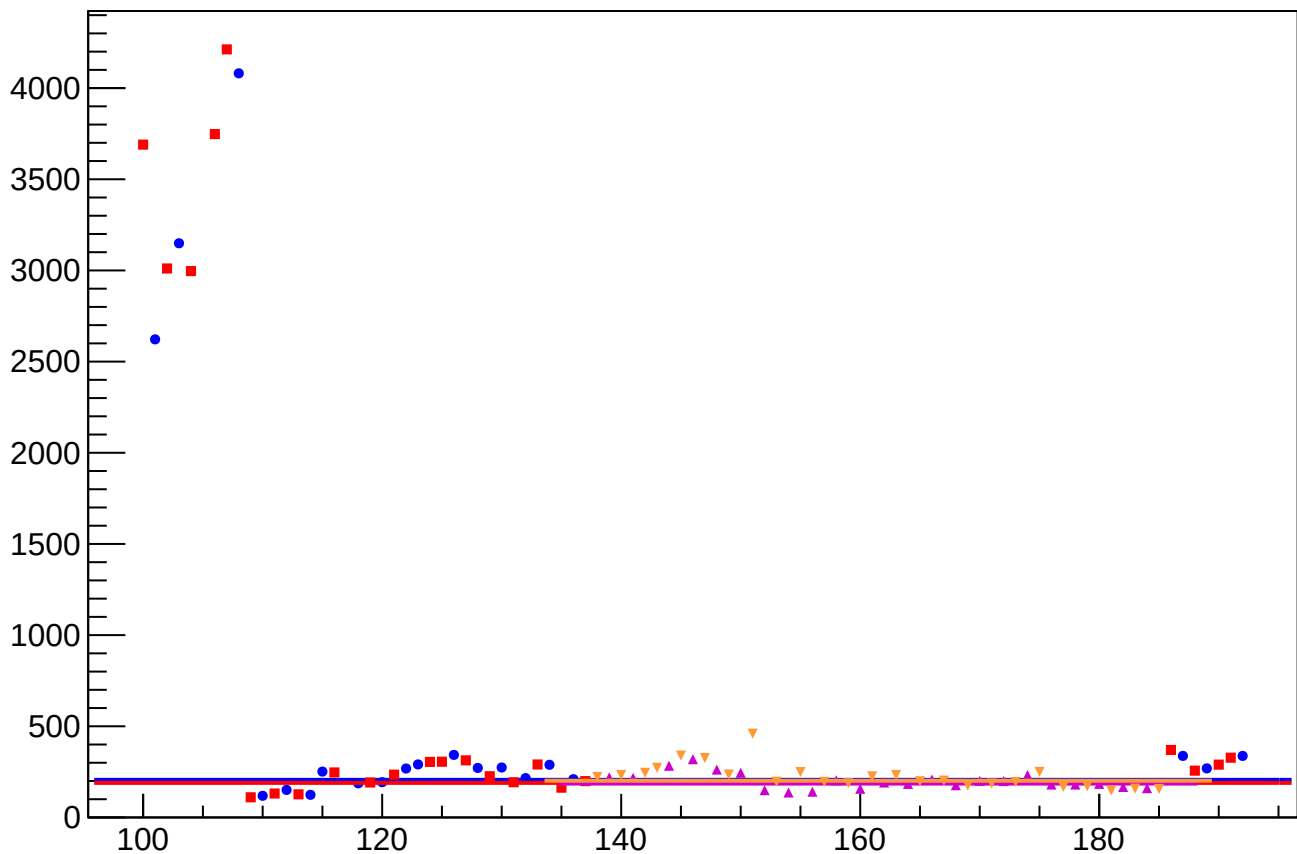
Right: 23.689+/-56.315 χ^2/NDF : 29.9/42

In: 35.378+/-40.628 χ^2/NDF : 24.0/42

Out: -8.890+/-41.053 χ^2/NDF : 21.8/47

All: 13.474+/-28.878 χ^2/NDF : 46.4/90

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.233+/-0.059 χ^2/NDF : 3951193.5/19

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 189.599+/-0.054 χ^2/NDF : 4696662.0/22

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

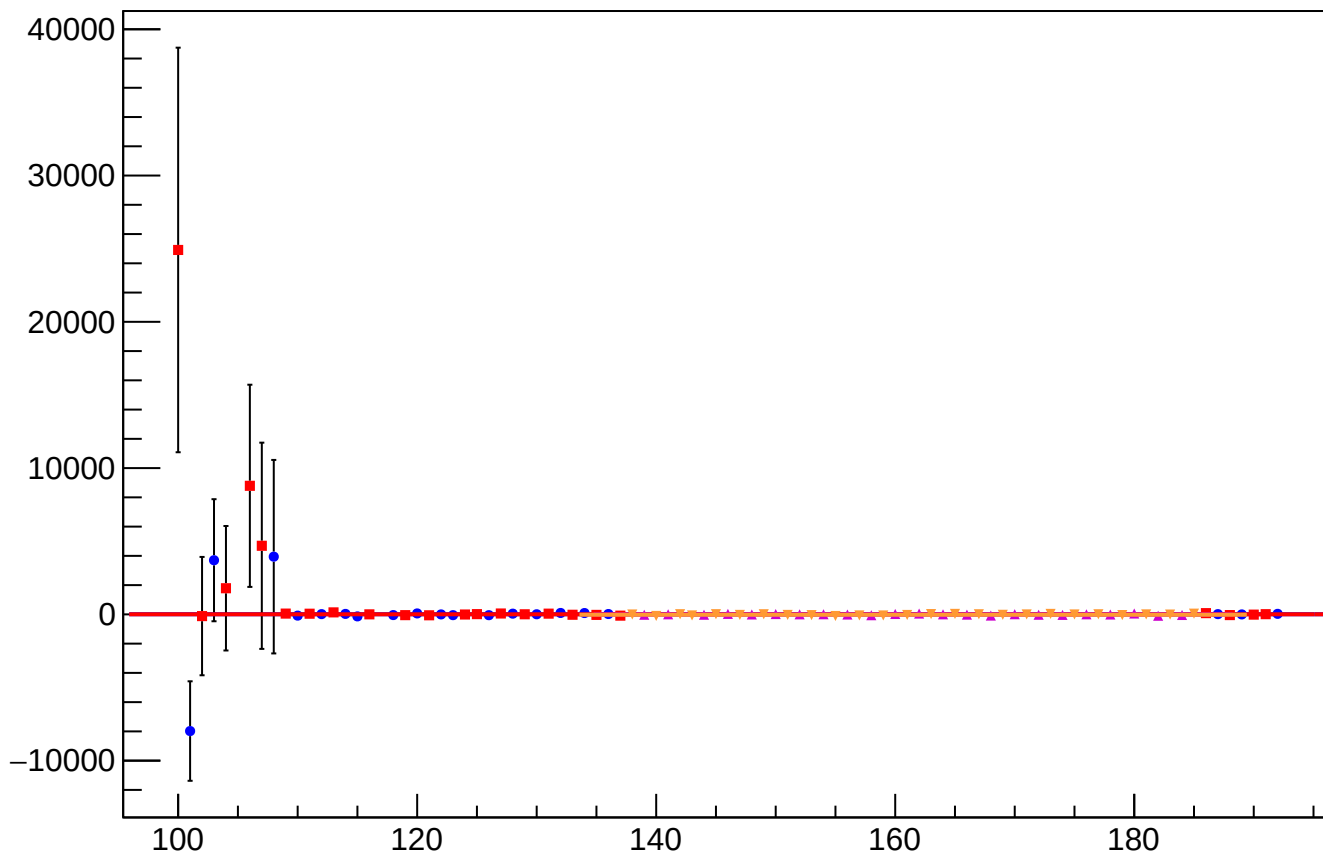
Right: 197.143+/-0.040 χ^2/NDF : 8691100.6/42

In: 190.683+/-0.029 χ^2/NDF : 5422593.5/42

Out: 198.046+/-0.029 χ^2/NDF : 6586219.5/47

All: 194.326+/-0.020 χ^2/NDF : 12041313.6/90

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.852+/-13.057 χ^2/NDF : 20.8/19

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: 6.098+/-12.886 χ^2/NDF : 25.4/22

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

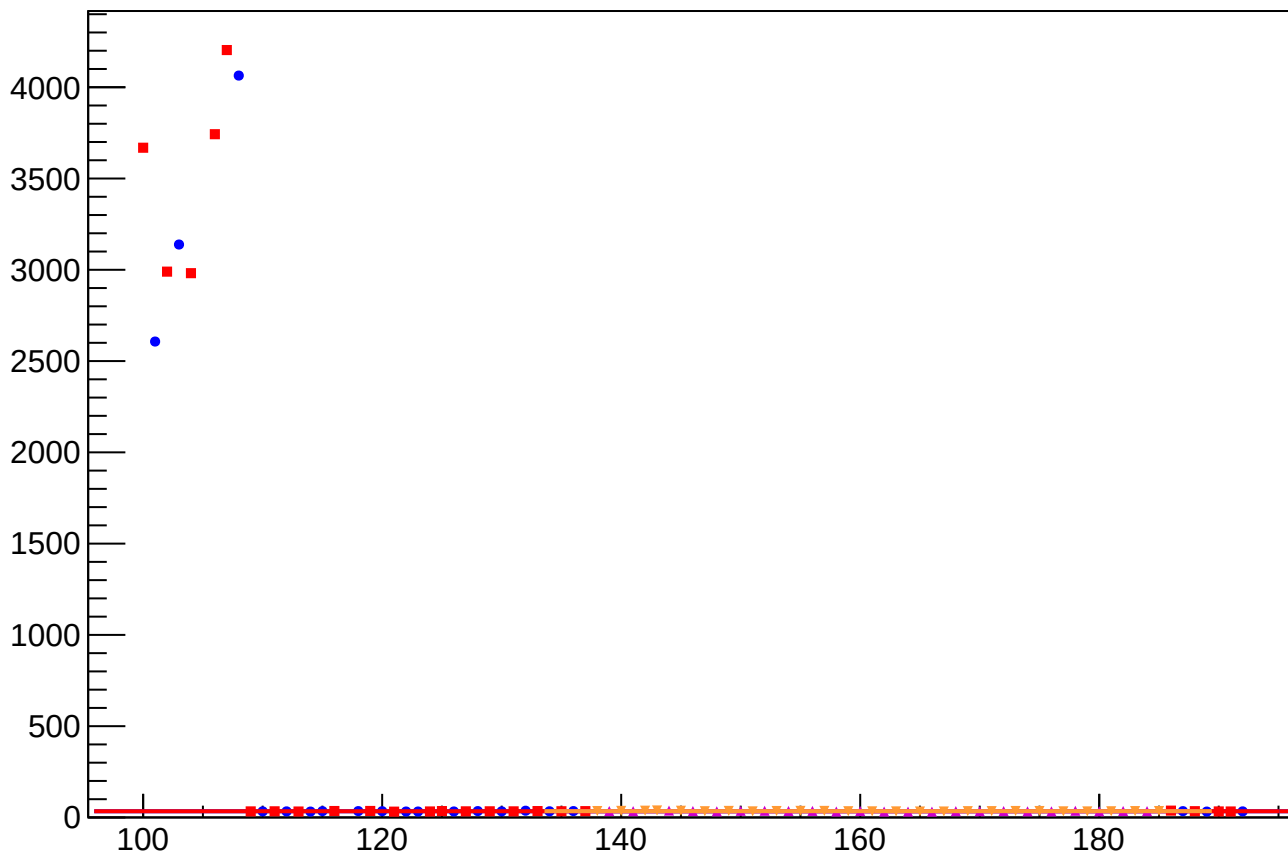
Right: 7.950+/-9.171 χ^2/NDF : 46.3/42

In: -1.352+/-7.028 χ^2/NDF : 42.8/42

Out: -15.614+/-6.843 χ^2/NDF : 54.3/47

All: -8.674+/-4.903 χ^2/NDF : 99.2/90

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.888 $\pm$ 0.009 χ^2 /NDF: 3010321.1/19

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 34.042 $\pm$ 0.009 χ^2 /NDF: 3459808.3/22

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

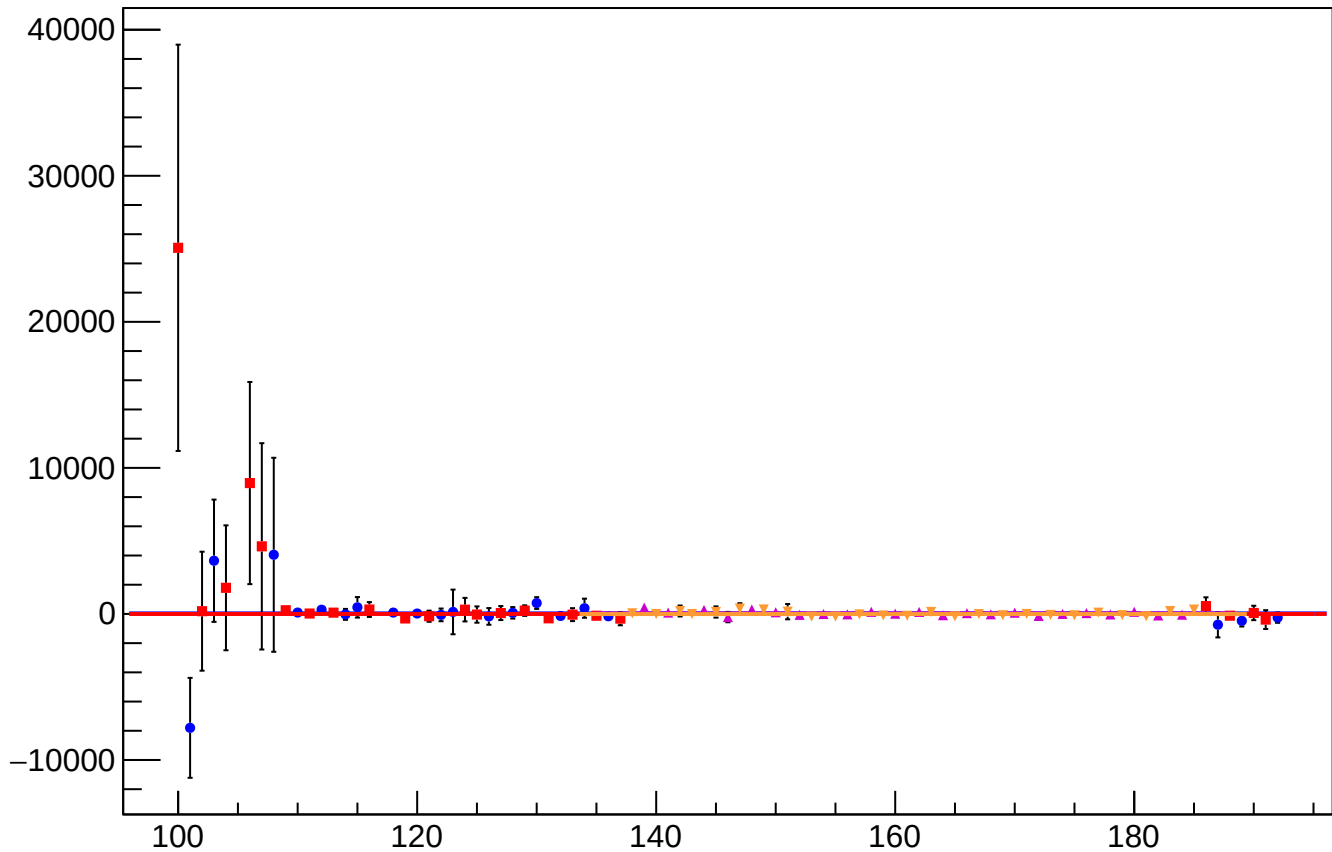
Right: 33.966 $\pm$ 0.006 χ^2 /NDF: 6470270.2/42

In: 34.452 $\pm$ 0.005 χ^2 /NDF: 3075403.2/42

Out: 34.455 $\pm$ 0.005 χ^2 /NDF: 3520540.1/47

All: 34.454 $\pm$ 0.003 χ^2 /NDF: 6595943.5/90

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 34.859 $\pm$ 83.243 χ^2 /NDF: 16.0/19

Left Out: -7.558 $\pm$ 48.662 χ^2 /NDF: 8.8/24

Right Out: -1.304 $\pm$ 75.725 χ^2 /NDF: 12.5/22

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

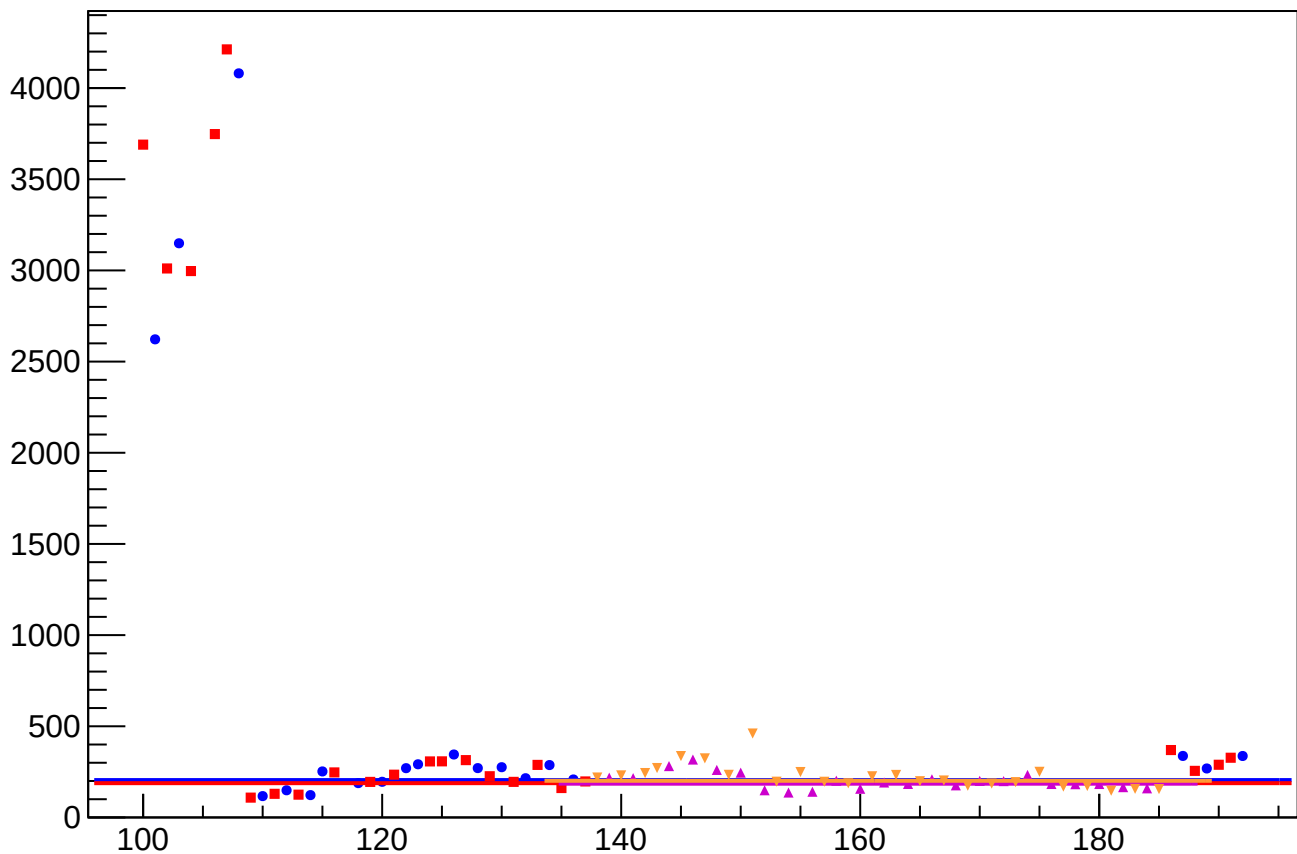
Right: 15.071 $\pm$ 56.015 χ^2 /NDF: 28.6/42

In: 34.949 $\pm$ 40.543 χ^2 /NDF: 23.1/42

Out: -5.730 $\pm$ 40.938 χ^2 /NDF: 21.3/47

All: 14.807 $\pm$ 28.807 χ^2 /NDF: 44.8/90

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.944 $\pm$ 0.059 χ^2 /NDF: 3995371.9/19

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 188.042 $\pm$ 0.054 χ^2 /NDF: 4751892.9/22

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

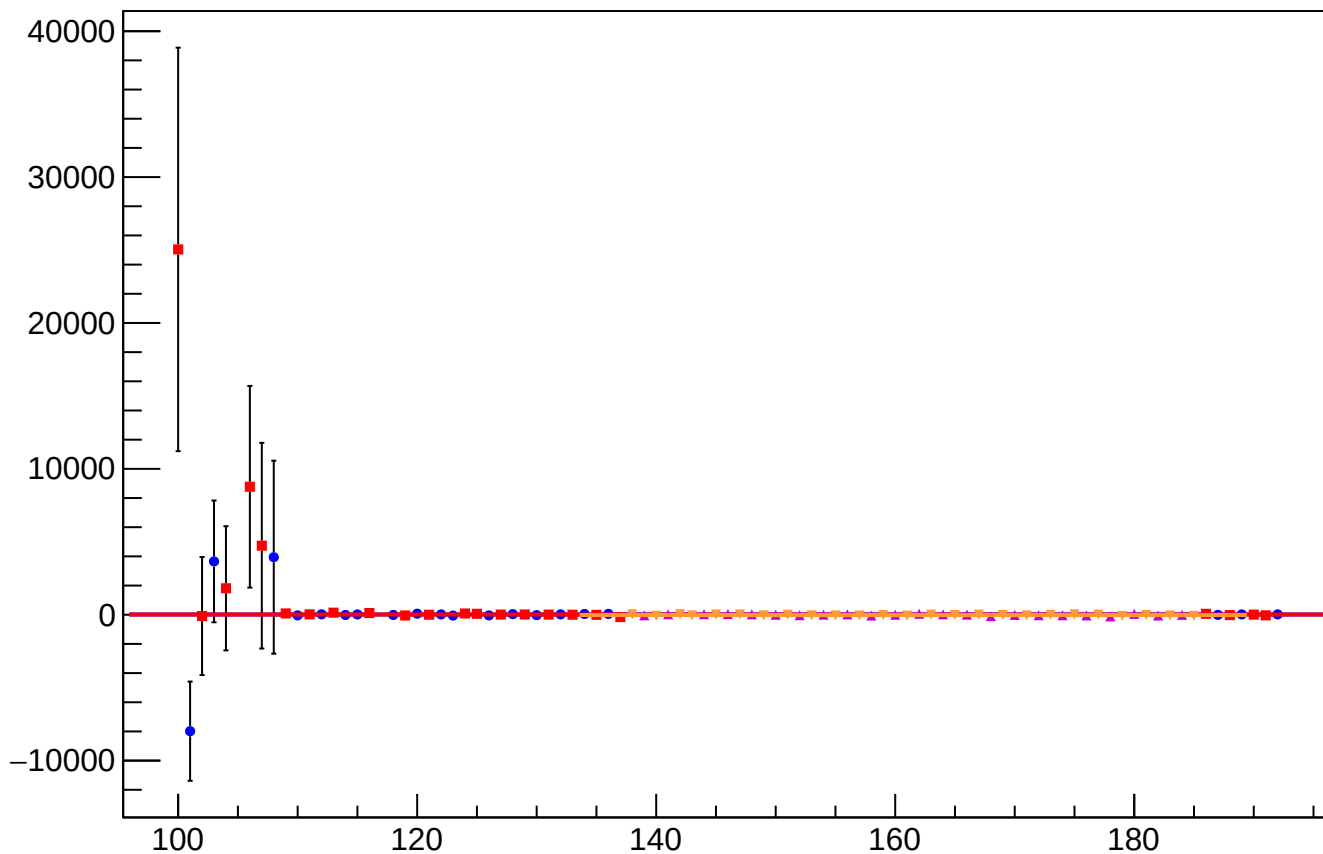
Right: 195.696 $\pm$ 0.040 χ^2 /NDF: 8792383.3/42

In: 190.210 $\pm$ 0.029 χ^2 /NDF:5448936.0/42

Out: 197.353 $\pm$ 0.029 χ^2 /NDF:6643054.3/47

All: 193.747 $\pm$ 0.020 χ^2 /NDF: 12122736.3/90

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 15.576 $\pm$ 11.845 χ^2 /NDF: 15.0/19

Left Out: -23.320 $\pm$ 7.352 χ^2 /NDF:18.3/24

Right Out: 15.253 $\pm$ 11.725 χ^2 /NDF: 30.8/22

Left In: -6.386 $\pm$ 7.577 χ^2 /NDF:38.7/22

Left: -15.108 $\pm$ 5.276 χ^2 /NDF: 59.6/47

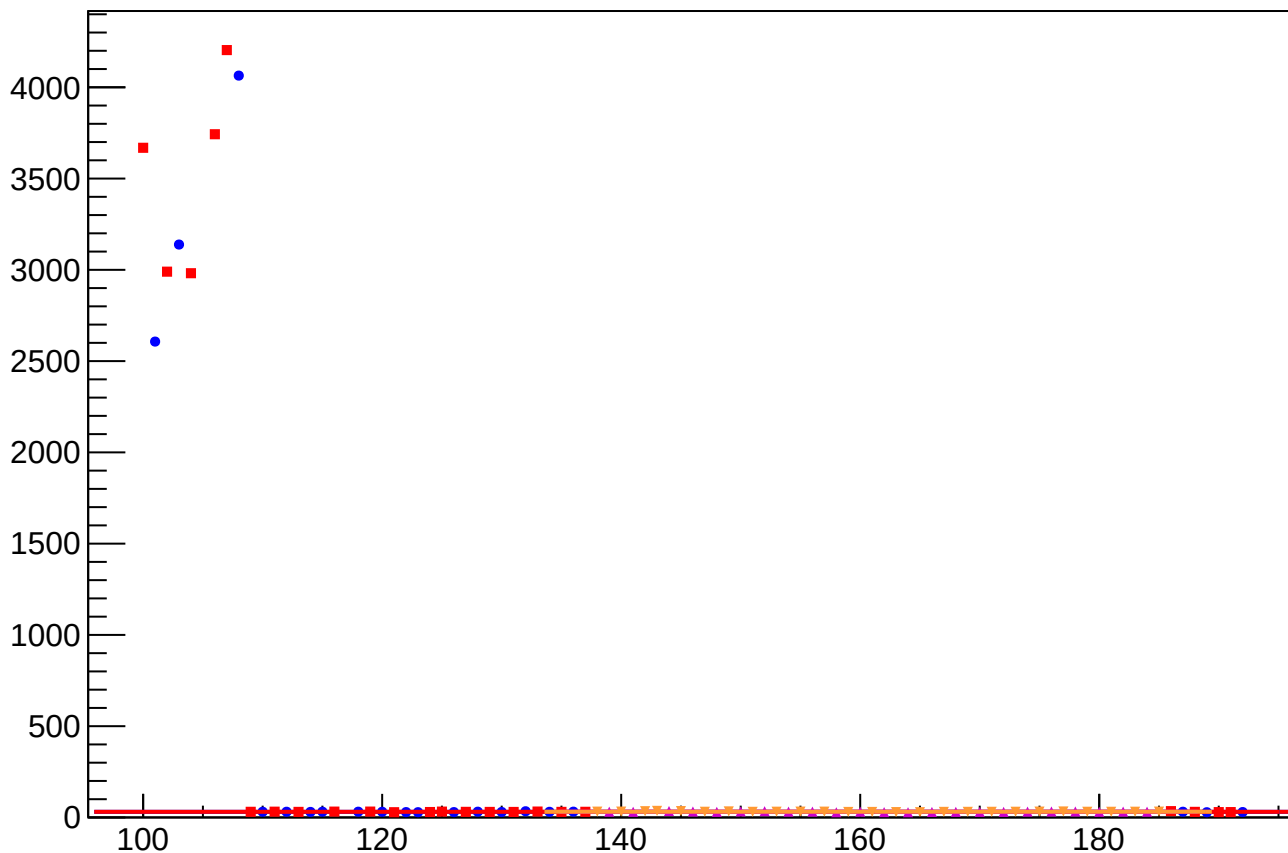
Right: 15.413 $\pm$ 8.333 χ^2 /NDF: 45.8/42

In: -0.009 $\pm$ 6.383 χ^2 /NDF:56.1/42

Out: -12.434 $\pm$ 6.229 χ^2 /NDF:56.9/47

All: -6.373 $\pm$ 4.458 χ^2 /NDF: 115.0/90

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.734+/-0.008 χ^2/NDF : 3023840.0/19

Left Out: 31.488+/-0.005 χ^2/NDF : 81938.2/24

Right Out: 30.940+/-0.008 χ^2/NDF : 3471154.4/22

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

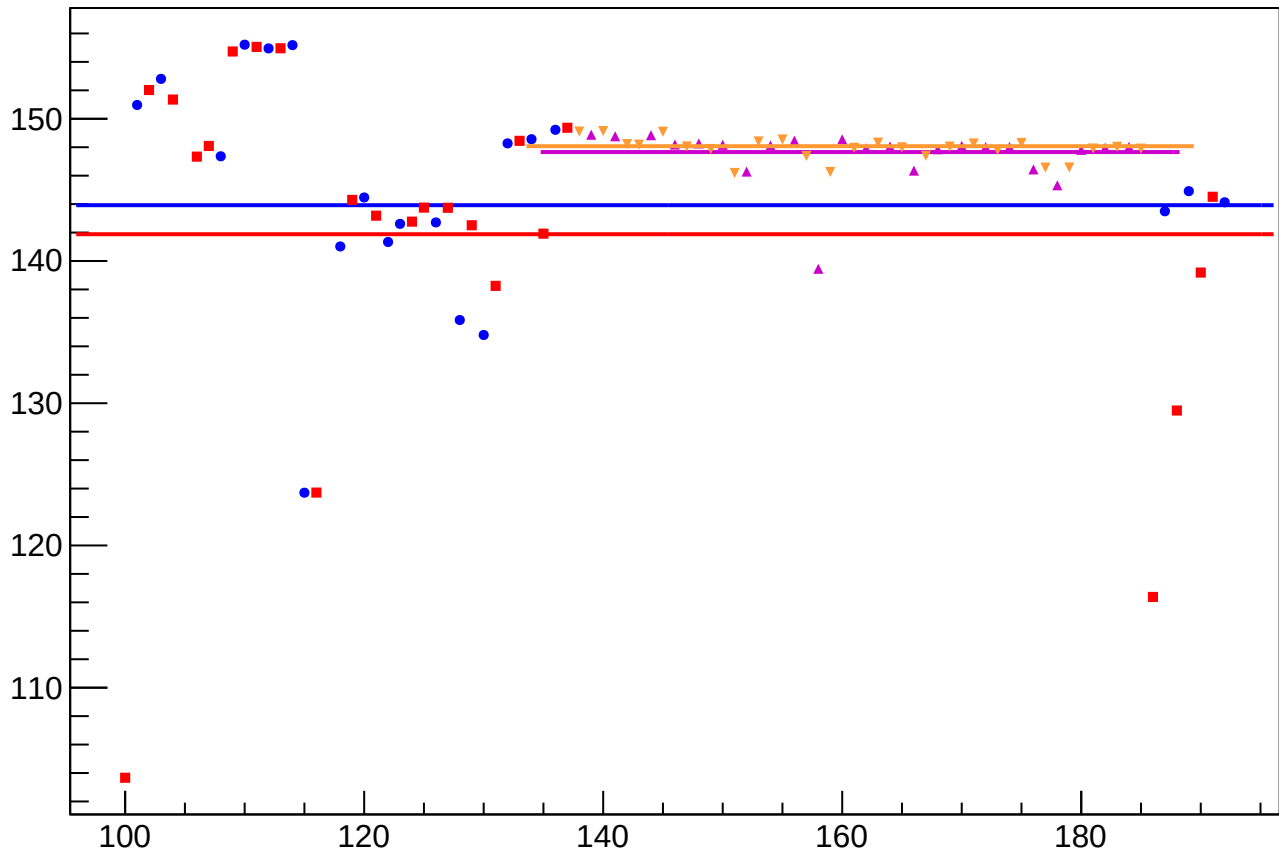
Right: 30.838+/-0.006 χ^2/NDF : 6495300.5/42

In: 31.260+/-0.005 χ^2/NDF : 3117193.2/42

Out: 31.334+/-0.004 χ^2/NDF : 3556228.4/47

All: 31.298+/-0.003 χ^2/NDF : 6673557.9/90

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.925+/-0.000 χ^2/NDF : 3451946133.2/19

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 141.883+/-0.000 χ^2/NDF : 7222796563.7/22

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

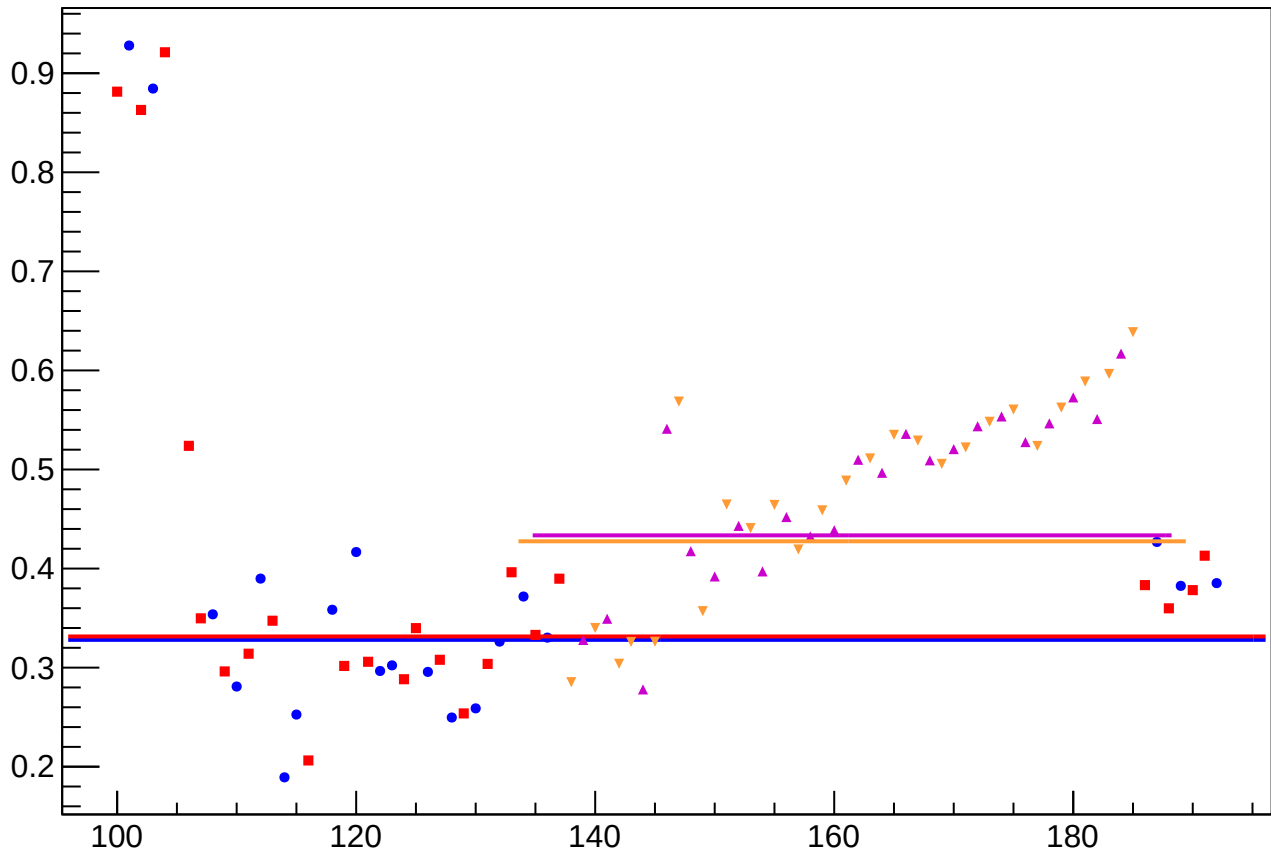
Right: 142.872+/-0.000 χ^2/NDF : 10814457468.8/42

In: 146.050+/-0.000 χ^2/NDF : 4312351764.7/42

Out: 145.426+/-0.000 χ^2/NDF : 8806424180.1/47

All: 145.727+/-0.000 χ^2/NDF : 13149193608.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.328 $\pm$ 0.000 χ^2 /NDF: 1357928.1/19

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.331 $\pm$ 0.000 χ^2 /NDF: 1279028.5/22

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

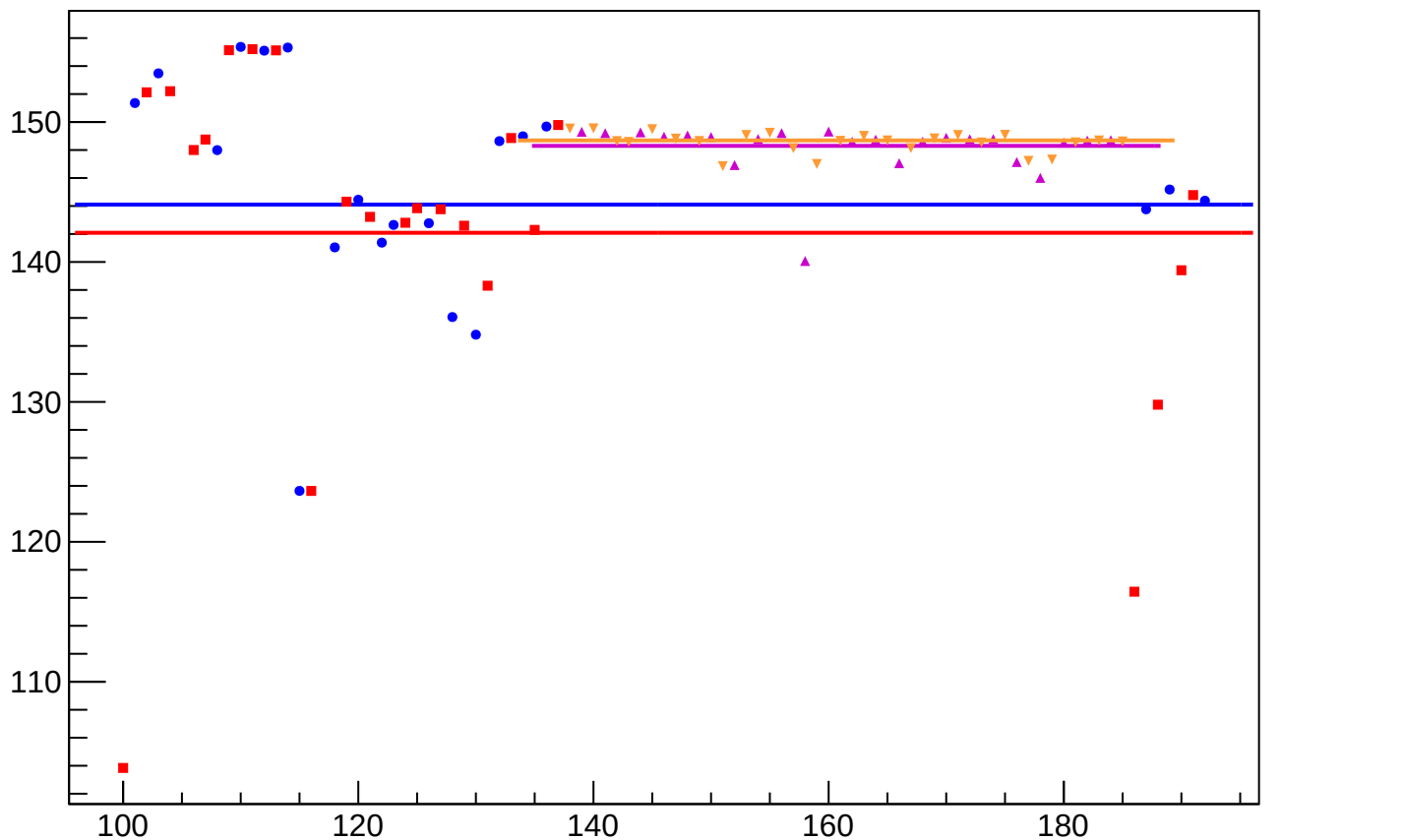
Right: 0.330 $\pm$ 0.000 χ^2 /NDF: 2637739.2/42

In: 0.388 $\pm$ 0.000 χ^2 /NDF:3660646.2/42

Out: 0.386 $\pm$ 0.000 χ^2 /NDF:3902930.4/47

All: 0.387 $\pm$ 0.000 χ^2 /NDF: 7563984.8/90

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.101 $\pm$ 0.000 χ^2 /NDF: 3496638734.2/19

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.086 $\pm$ 0.000 χ^2 /NDF: 7166102689.3/22

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

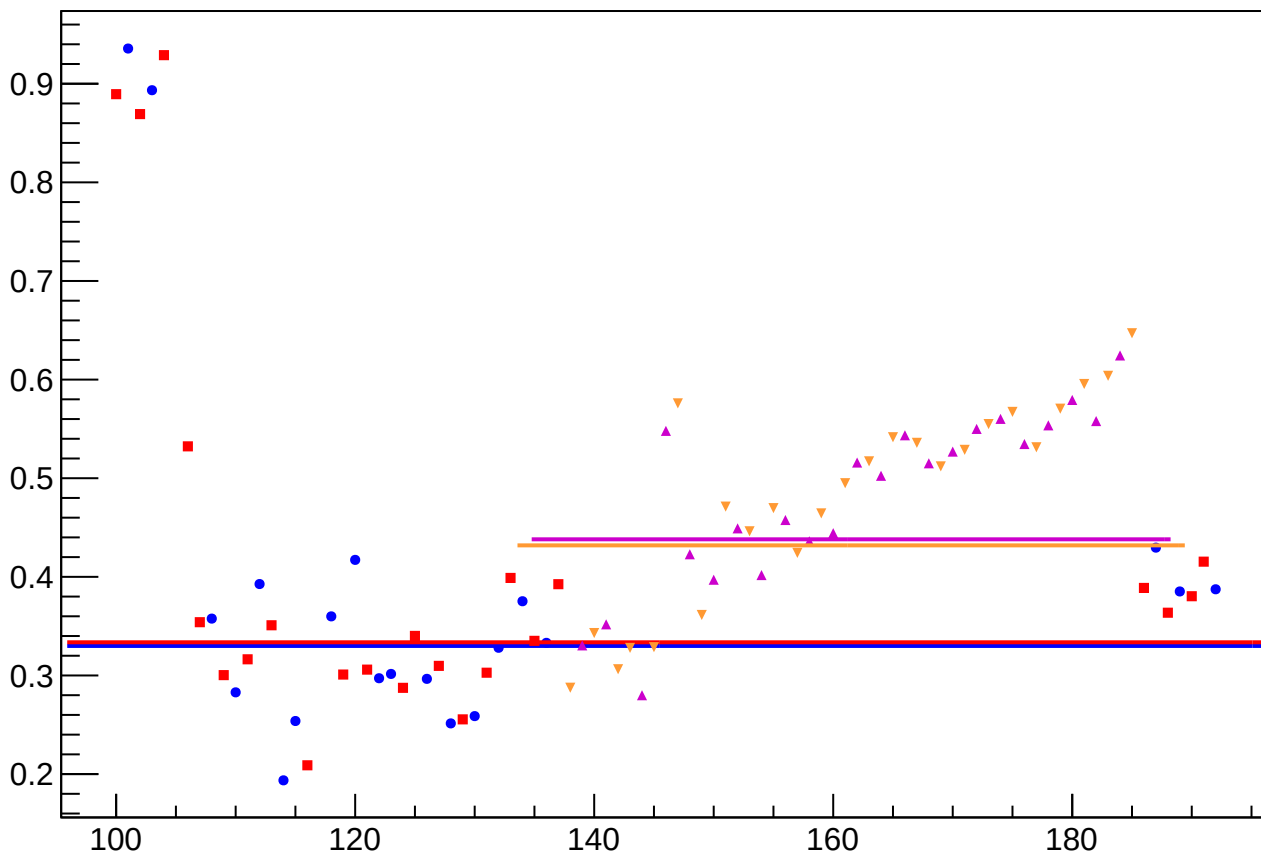
Right: 143.063 $\pm$ 0.000 χ^2 /NDF: 10797178019.5/42

In: 146.478 $\pm$ 0.000 χ^2 /NDF: 4470779636.4/42

Out: 145.851 $\pm$ 0.000 χ^2 /NDF: 8915584091.4/47

All: 146.154 $\pm$ 0.000 χ^2 /NDF: 13416594274.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2 /NDF: 1359691.0/19

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.334 $\pm$ 0.000 χ^2 /NDF: 1283851.8/22

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

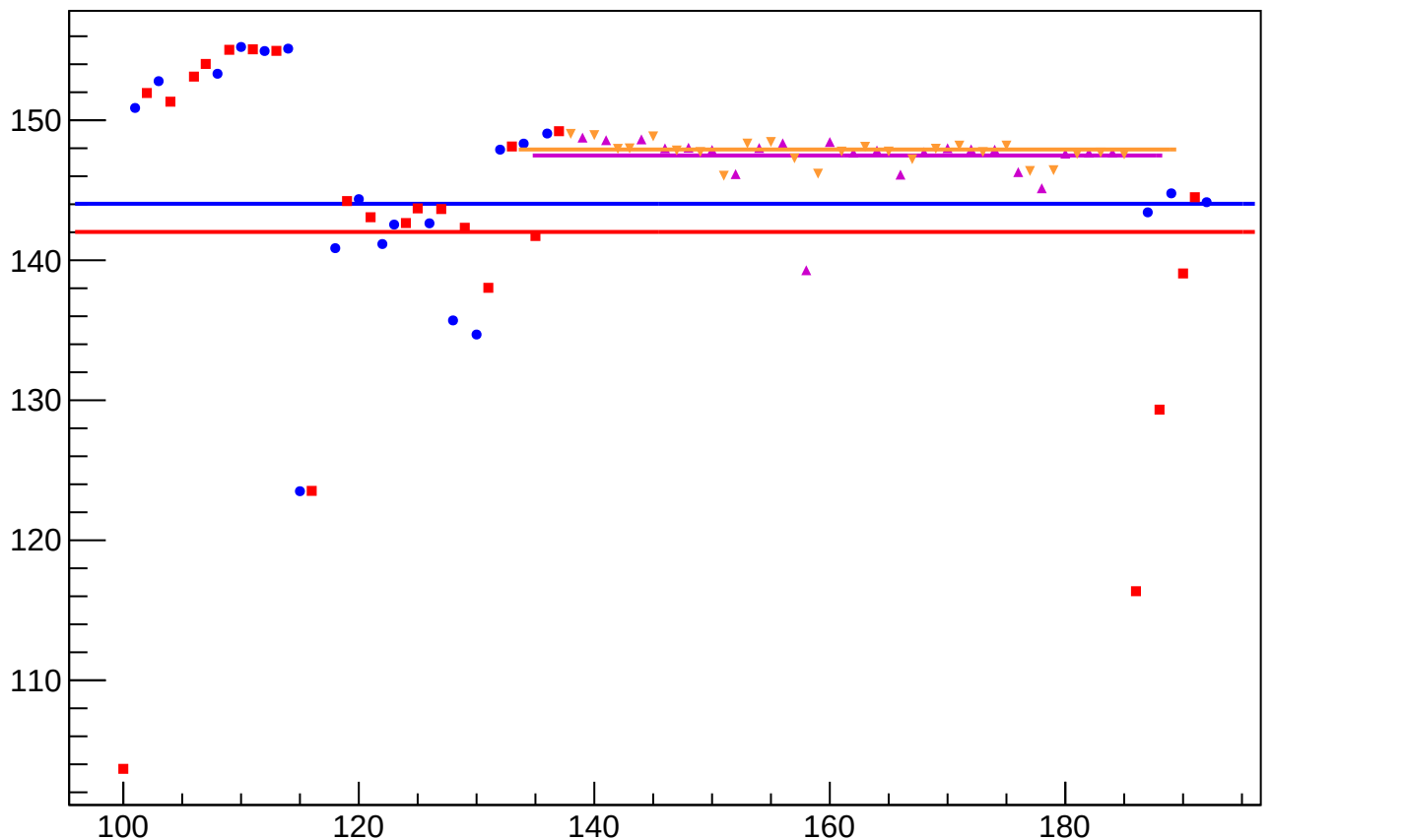
Right: 0.332 $\pm$ 0.000 χ^2 /NDF: 2644446.5/42

In: 0.391 $\pm$ 0.000 χ^2 /NDF:3715783.3/42

Out: 0.390 $\pm$ 0.000 χ^2 /NDF:3961251.0/47

All: 0.390 $\pm$ 0.000 χ^2 /NDF: 7677380.2/90

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.034 +/- 0.000 χ^2/NDF : 3663911746.4/19

Left Out: 147.912 +/- 0.000 χ^2/NDF : 64463426.1/24

Right Out: 142.022 +/- 0.000 χ^2/NDF : 7619133321.1/22

Left In: 147.483 +/- 0.000 χ^2/NDF : 342674720.4/22

Left: 147.706 +/- 0.000 χ^2/NDF : 415263003.2/47

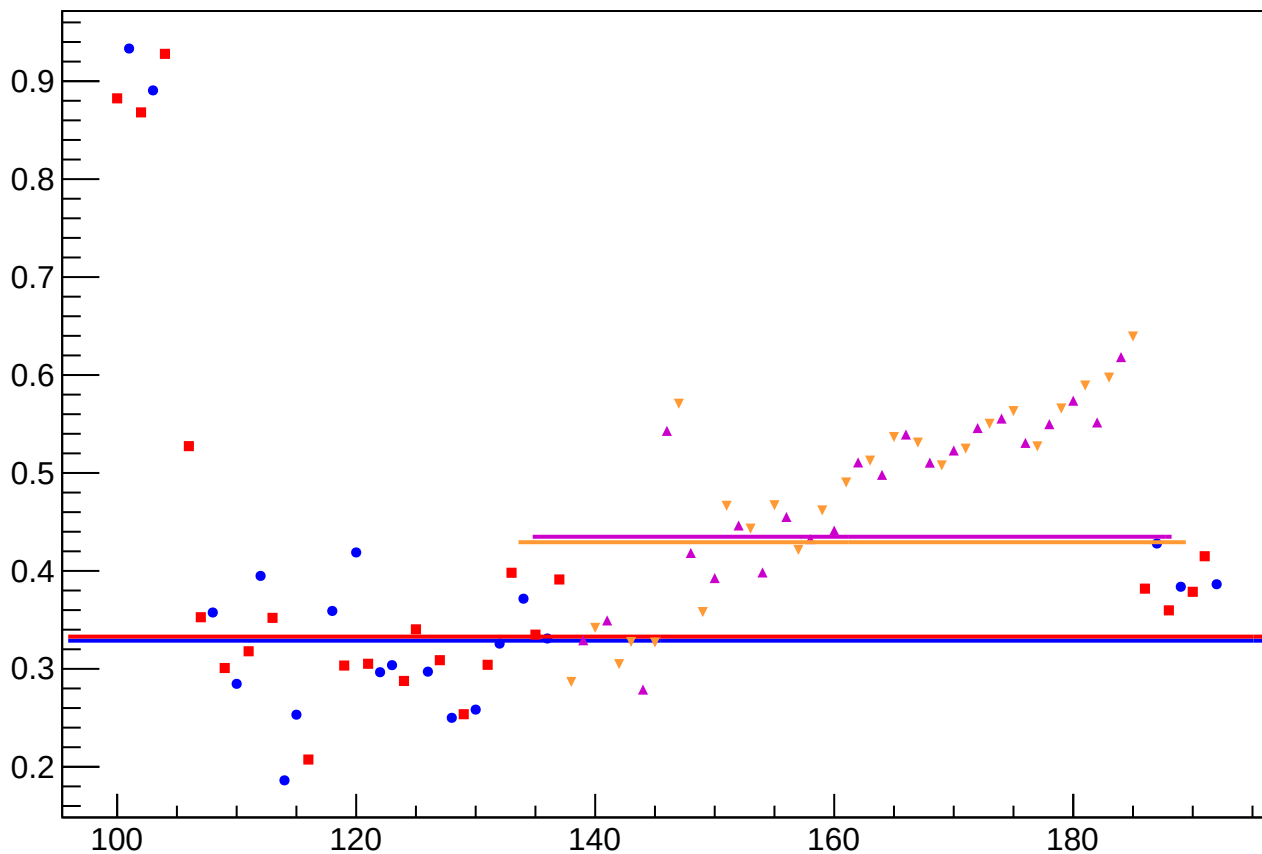
Right: 142.998 +/- 0.000 χ^2/NDF : 11417801258.9/42

In: 145.996 +/- 0.000 χ^2/NDF : 4444123467.2/42

Out: 145.393 +/- 0.000 χ^2/NDF : 9045938096.7/47

All: 145.685 +/- 0.000 χ^2/NDF : 13518238922.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1373310.0/19

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.333+/-0.000 χ^2/NDF : 1280398.6/22

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

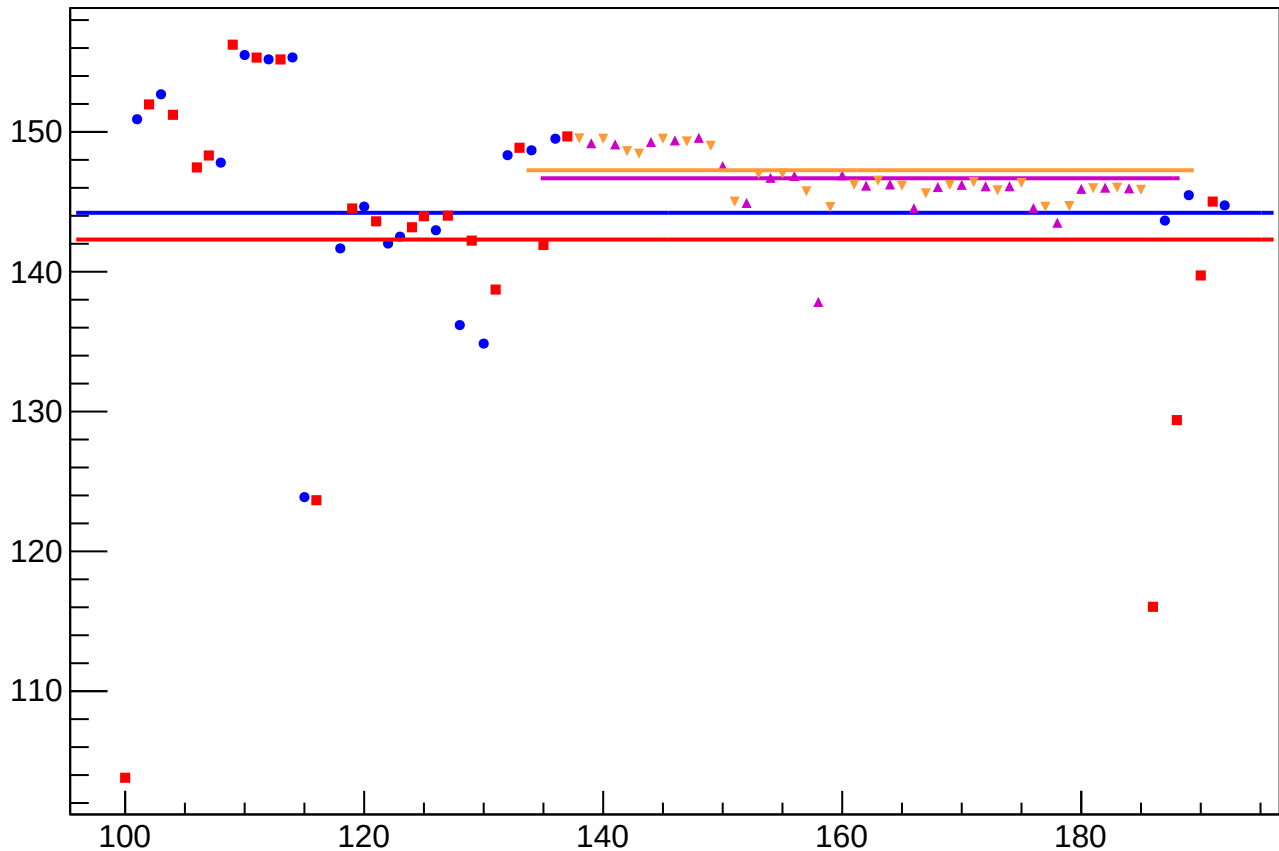
Right: 0.331+/-0.000 χ^2/NDF : 2654849.3/42

In: 0.389+/-0.000 χ^2/NDF :3687086.4/42

Out: 0.388+/-0.000 χ^2/NDF :3901642.1/47

All: 0.389+/-0.000 χ^2/NDF : 7588898.4/90

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.216 ± 0.000 χ^2/NDF : 3166865632.1/19

Left Out: 147.257 ± 0.000 χ^2/NDF : 261906278.3/24

Right Out: 142.304 ± 0.000 χ^2/NDF : 6921356369.1/22

Left In: 146.685 ± 0.000 χ^2/NDF : 554922388.0/22

Left: 146.981 ± 0.000 χ^2/NDF : 830580031.2/47

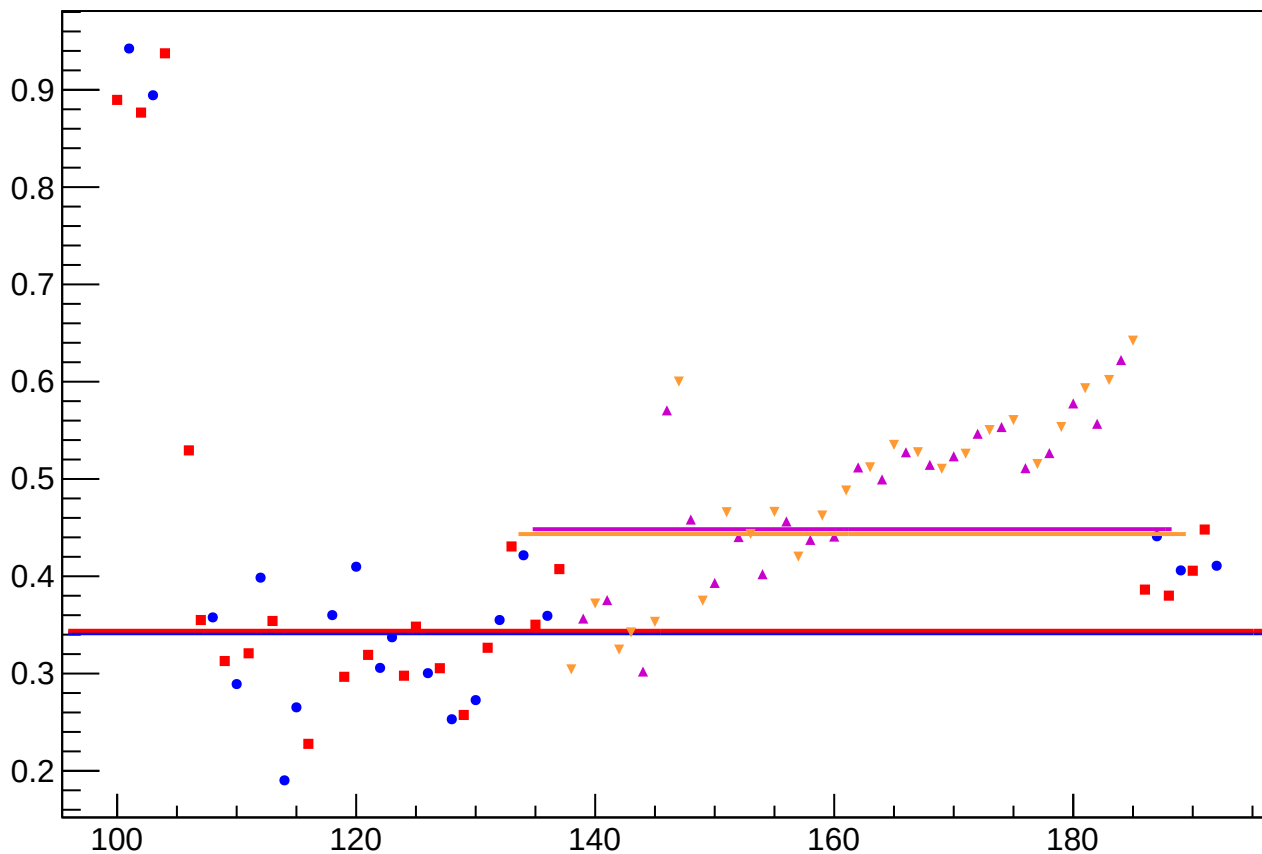
Right: 143.226 ± 0.000 χ^2/NDF : 10201233368.2/42

In: 145.638 ± 0.000 χ^2/NDF : 3931302668.1/42

Out: 145.155 ± 0.000 χ^2/NDF : 8088370362.0/47

All: 145.388 ± 0.000 χ^2/NDF : 12036635479.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.341+/-0.000 χ^2/NDF : 1371714.7/19

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.344+/-0.000 χ^2/NDF : 1256902.0/22

Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2602838.0/47

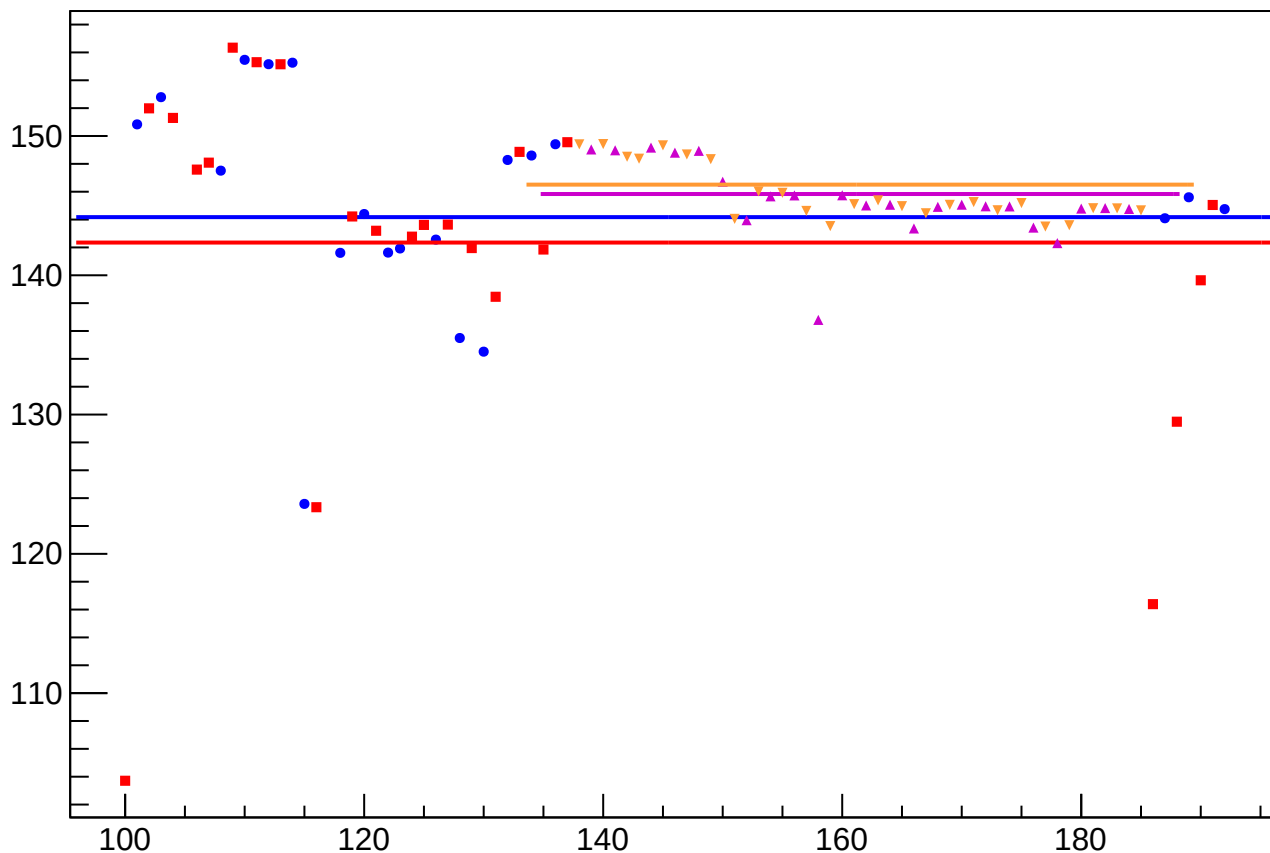
Right: 0.343+/-0.000 χ^2/NDF : 2629012.7/42

In: 0.403+/-0.000 χ^2/NDF :3278209.2/42

Out: 0.401+/-0.000 χ^2/NDF :3466334.5/47

All: 0.402+/-0.000 χ^2/NDF : 6745033.6/90

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.175+/-0.000 χ^2/NDF : 3287176167.2/19

Left Out: 146.508+/-0.000 χ^2/NDF : 401248837.9/24

Right Out: 142.349+/-0.000 χ^2/NDF : 6903771805.6/22

Left In: 145.834+/-0.000 χ^2/NDF : 690172810.0/22

Left: 146.184+/-0.000 χ^2/NDF : 1110403123.5/47

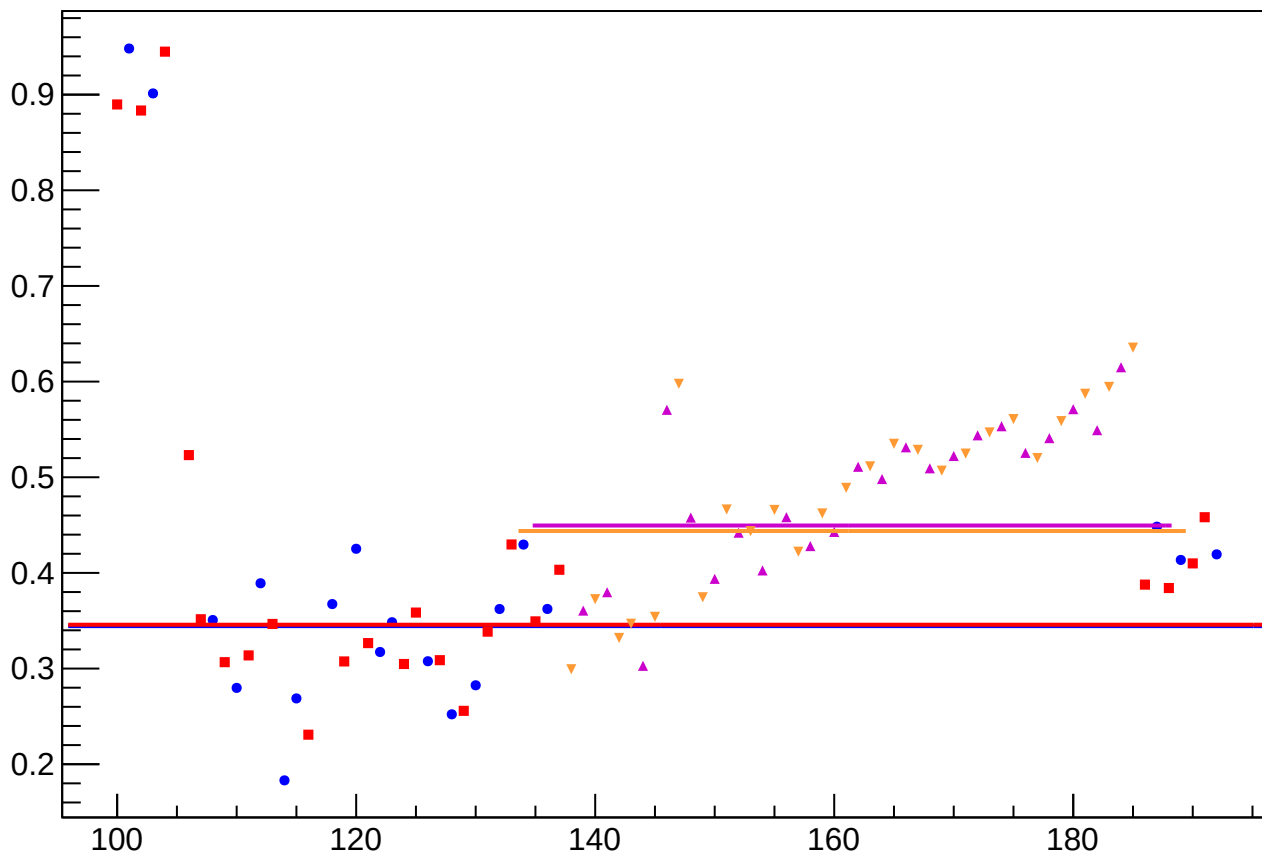
Right: 143.226+/-0.000 χ^2/NDF : 10292112629.4/42

In: 145.137+/-0.000 χ^2/NDF : 4070643464.7/42

Out: 144.755+/-0.000 χ^2/NDF : 7937598574.6/47

All: 144.939+/-0.000 χ^2/NDF : 12018802945.6/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.344 $\pm$ 0.000 χ^2 /NDF: 1399154.1/19

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.346 $\pm$ 0.000 χ^2 /NDF: 1251966.0/22

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2555905.8/47

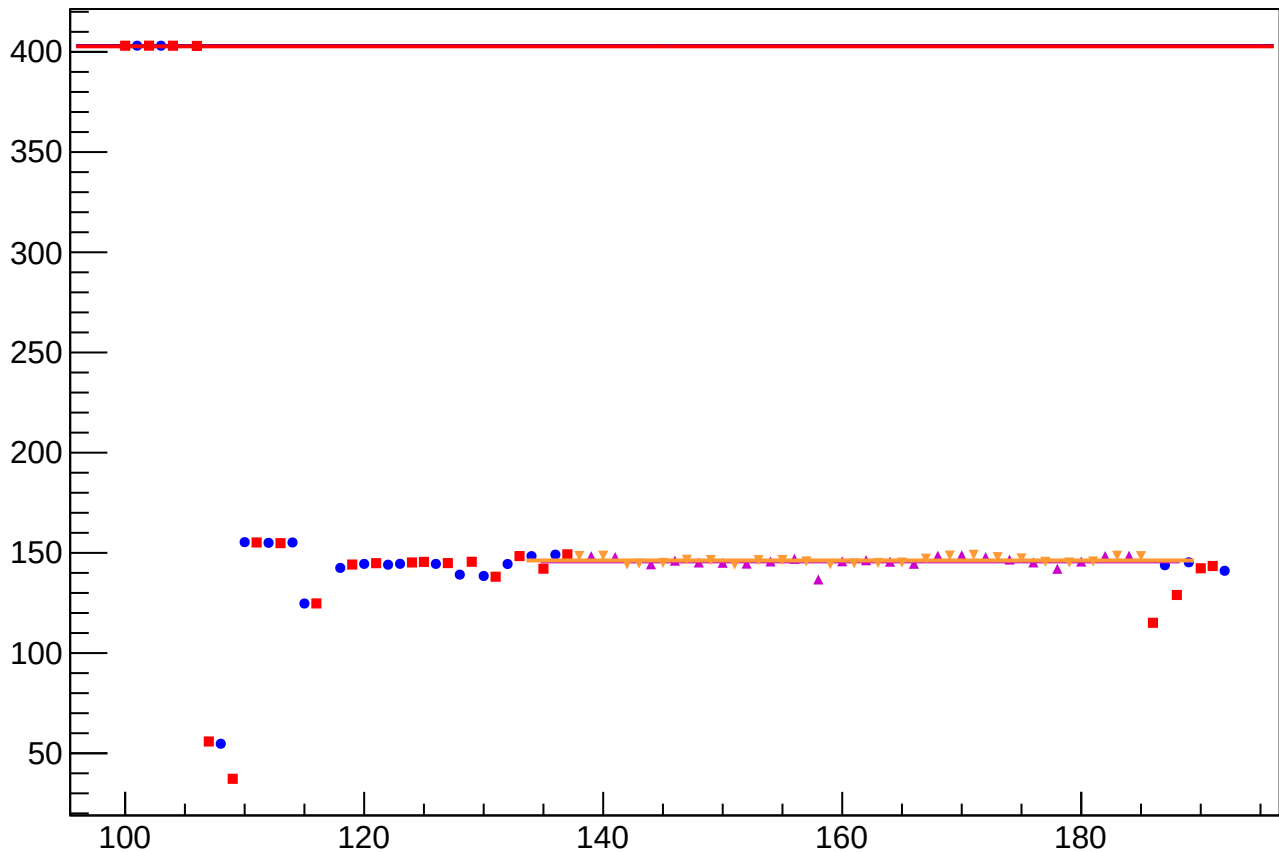
Right: 0.345 $\pm$ 0.000 χ^2 /NDF: 2651249.9/42

In: 0.405 $\pm$ 0.000 χ^2 /NDF:3241076.1/42

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:3414322.8/47

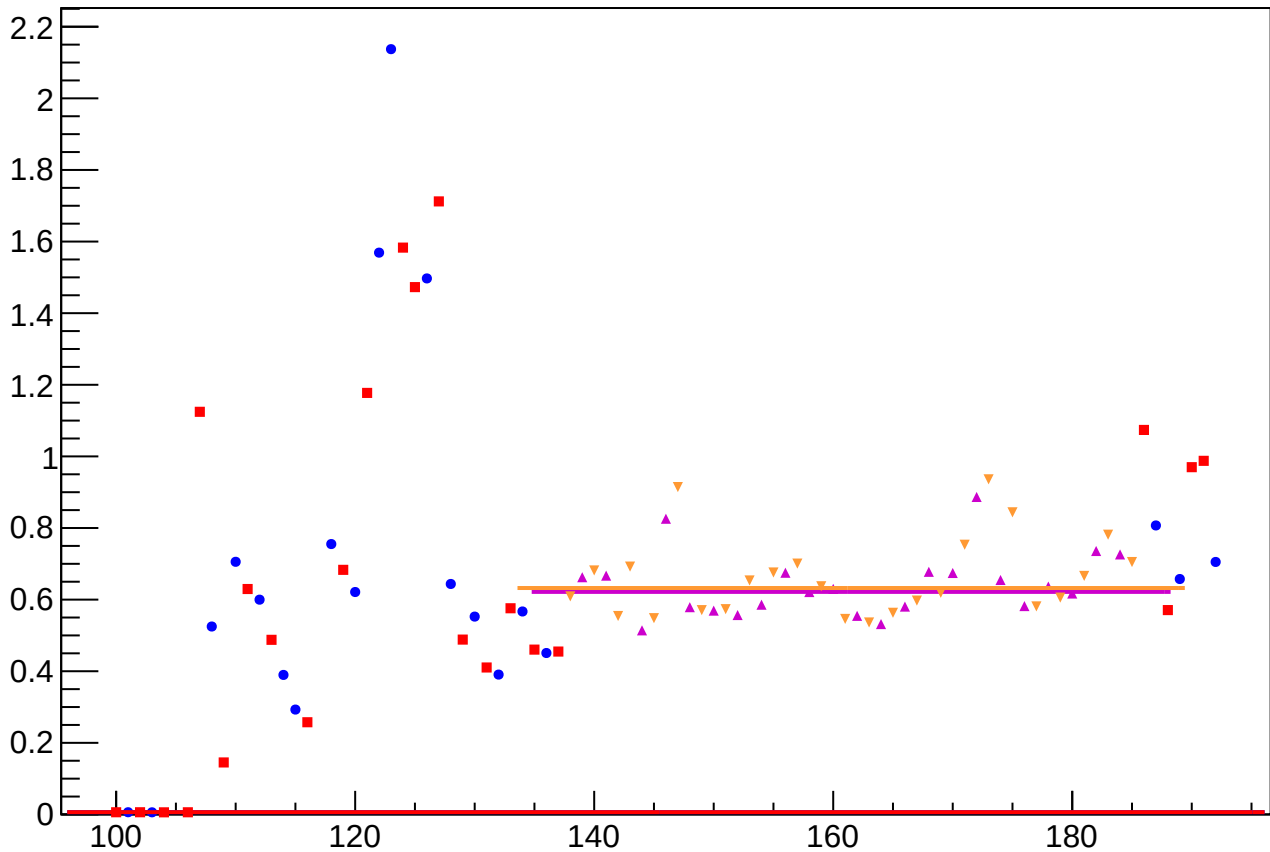
All: 0.404 $\pm$ 0.000 χ^2 /NDF: 6656587.0/90

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.937+/-0.000	χ^2/NDF : 1258827959158.7/19	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.851+/-0.000	χ^2/NDF : 4590525387289.9/
Right Out: 402.775+/-0.000	χ^2/NDF : 3331261787463.1/22	In: 402.646+/-0.000	χ^2/NDF : 3590735042900.1/42
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.514+/-0.000	χ^2/NDF : 5689520753592.8/4
		All: 402.576+/-0.000	χ^2/NDF : 928054388354

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 11399425.5/19

Left Out: 0.632+/-0.000 χ^2/NDF : 613604.5/24

Right Out: 0.006+/-0.000 χ^2/NDF : 12124225.7/22

Left In: 0.622+/-0.000 χ^2/NDF : 399965.3/22

Left: 0.627+/-0.000 χ^2/NDF : 1017722.4/47

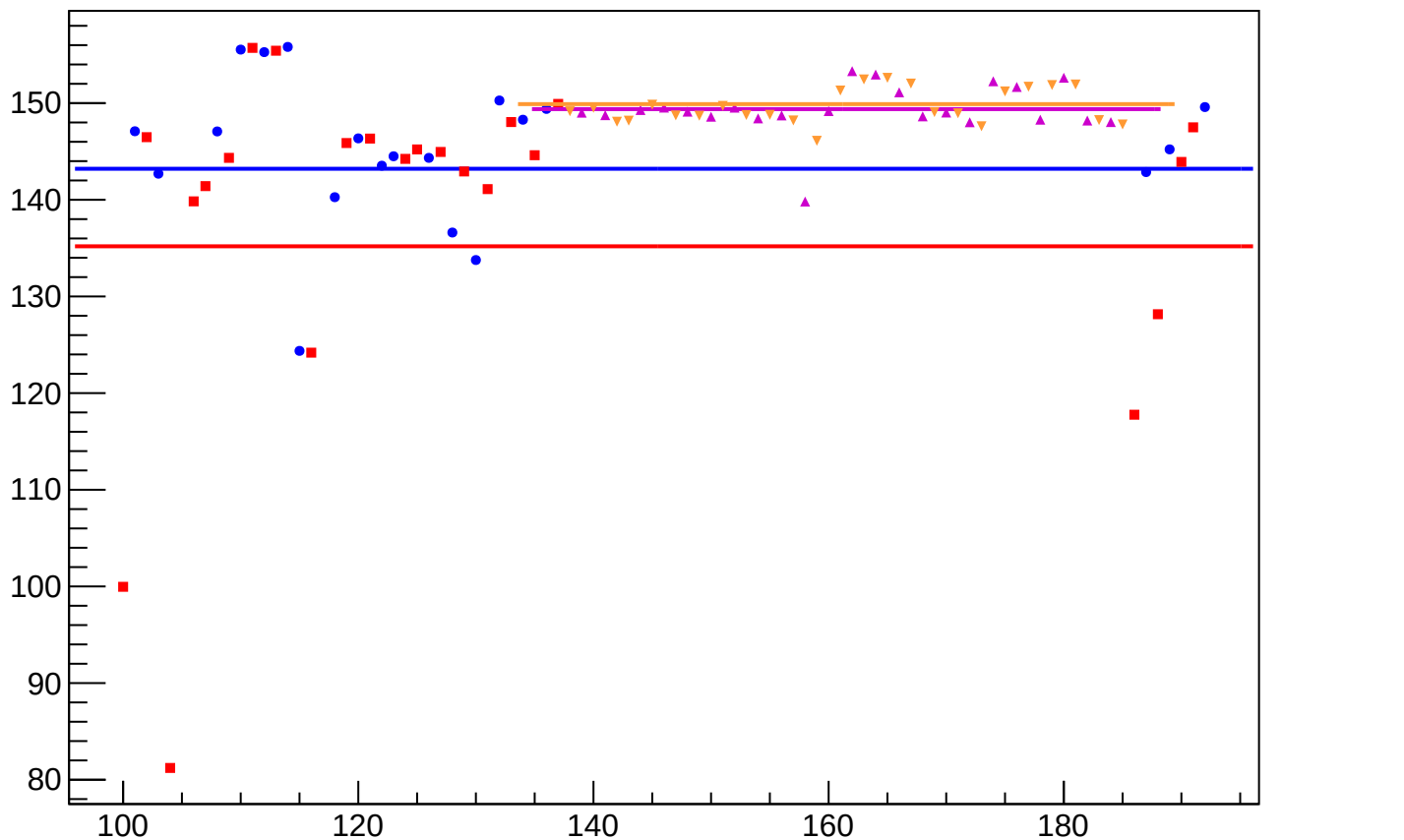
Right: 0.006+/-0.000 χ^2/NDF : 23523652.6/42

In: 0.007+/-0.000 χ^2/NDF : 38484642.6/42

Out: 0.007+/-0.000 χ^2/NDF : 40818773.4/47

All: 0.007+/-0.000 χ^2/NDF : 79303562.3/90

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 143.211 $\pm$ 0.000 χ^2 /NDF: 1094348803.5/19

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 135.188 $\pm$ 0.000 χ^2 /NDF: 1830870226.3/22

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000 χ^2 /NDF: 604081739.6/47

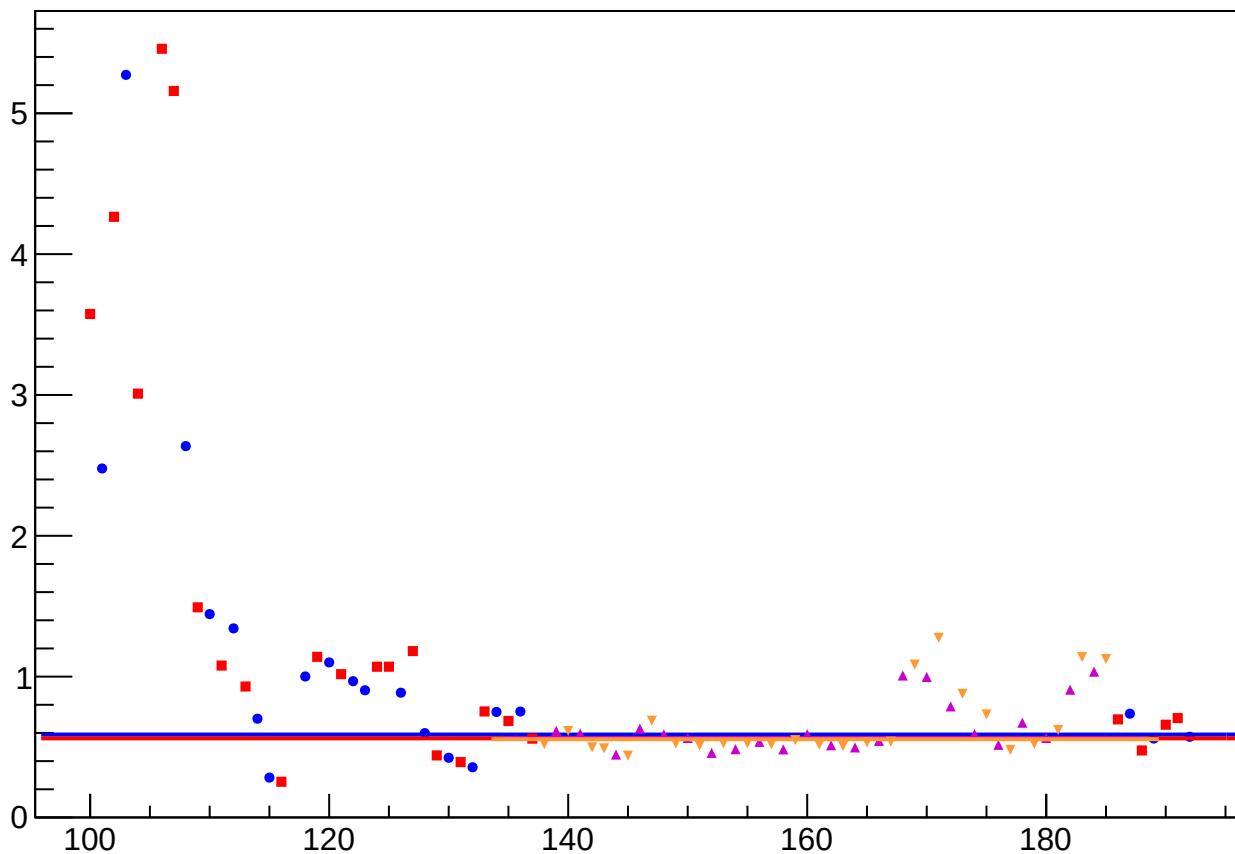
Right: 138.960 $\pm$ 0.000 χ^2 /NDF: 3390109407.1/42

In: 148.001 $\pm$ 0.000 χ^2 /NDF: 1931920467.6/42

Out: 146.481 $\pm$ 0.000 χ^2 /NDF: 4546251184.4/47

All: 147.210 $\pm$ 0.000 χ^2 /NDF: 6551418417.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.588+/-0.000 χ^2/NDF : 3532105.5/19

Left Out: 0.555+/-0.000 χ^2/NDF : 1773688.1/24

Right Out: 0.561+/-0.000 χ^2/NDF : 4744099.0/22

Left In: 0.562+/-0.000 χ^2/NDF : 1305573.4/22

Left: 0.559+/-0.000 χ^2/NDF : 3081194.0/47

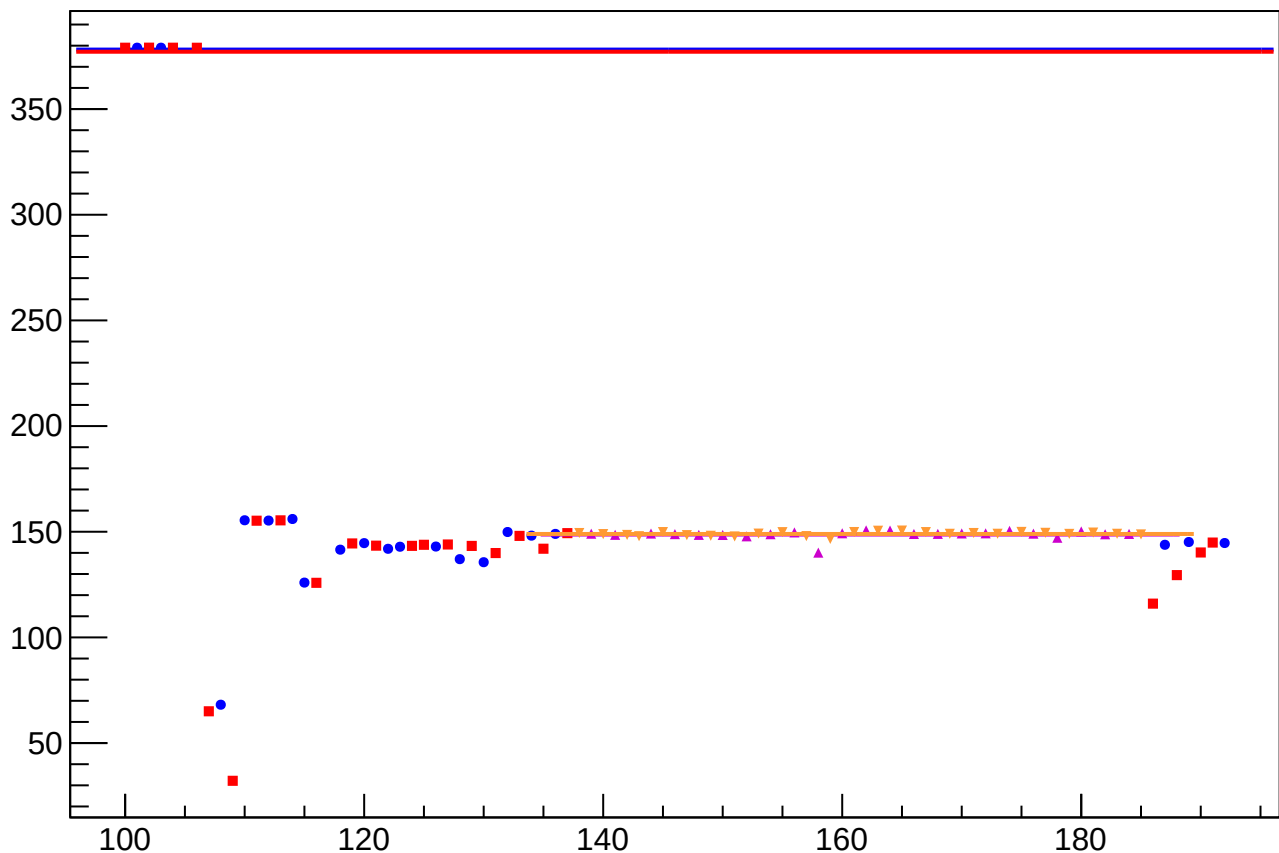
Right: 0.574+/-0.000 χ^2/NDF : 8286752.1/42

In: 0.568+/-0.000 χ^2/NDF : 4852793.7/42

Out: 0.557+/-0.000 χ^2/NDF : 6518632.6/47

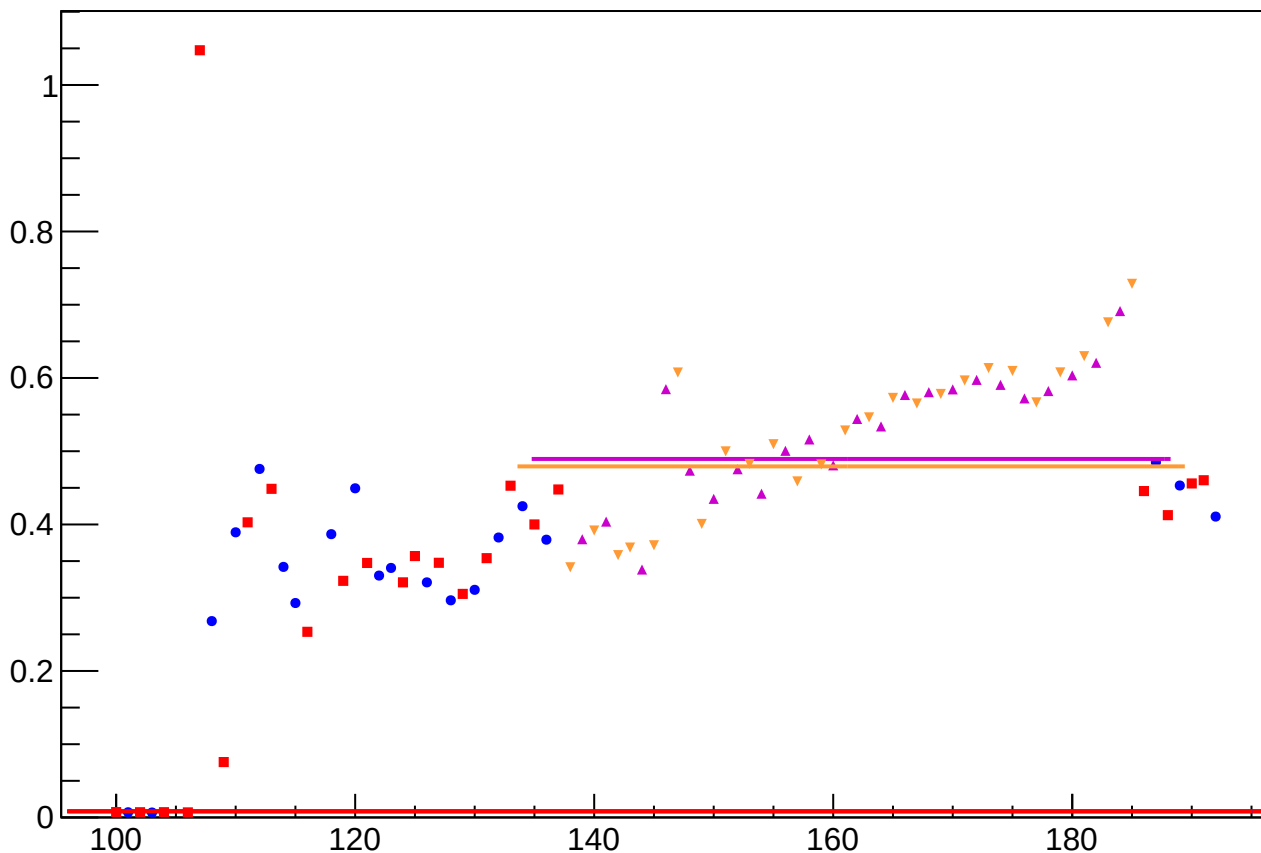
All: 0.562+/-0.000 χ^2/NDF : 11378920.9/90

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.147+/-0.000	χ^2/NDF : 2928619715377.6/19	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.608+/-0.000	χ^2/NDF : 11793143122382.7
Right Out: 377.135+/-0.000	χ^2/NDF : 8857253897443.0/22	In: 376.975+/-0.000	χ^2/NDF : 6512141646925.7/42
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 376.019+/-0.000	χ^2/NDF : 12728123583163.7
		All: 376.466+/-0.000	χ^2/NDF : 192467933430.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 12668200.5/19

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 12919672.9/22

Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2600075.4/47

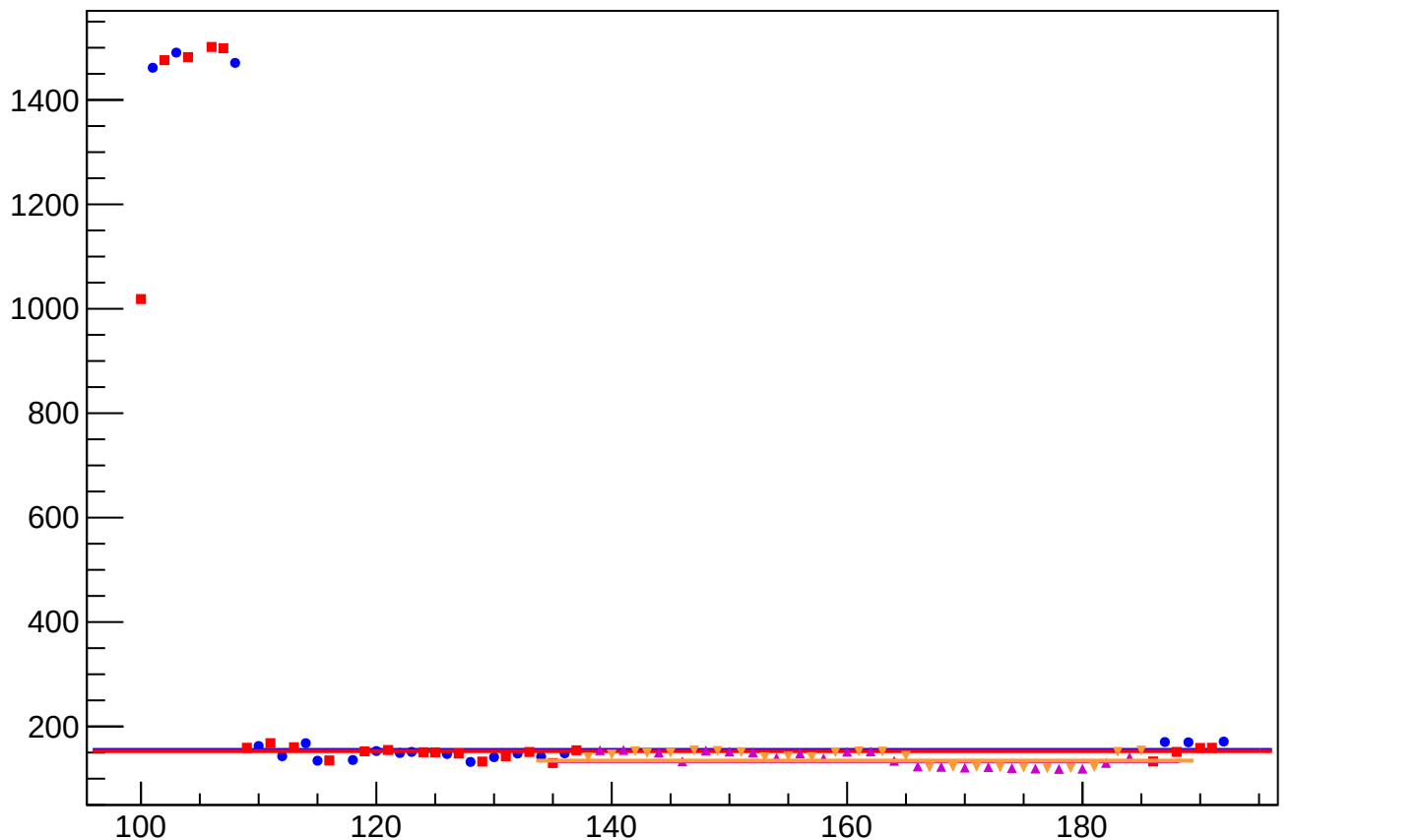
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 25587892.6/42

In: 0.011 $\pm$ 0.000 χ^2 /NDF:45243459.7/42

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:47403449.0/47

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 92647100.8/90

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.084 $\pm$ 0.000 χ^2 /NDF: 25398585810.8/19

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 152.842 $\pm$ 0.000 χ^2 /NDF: 34016532868.9/22

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

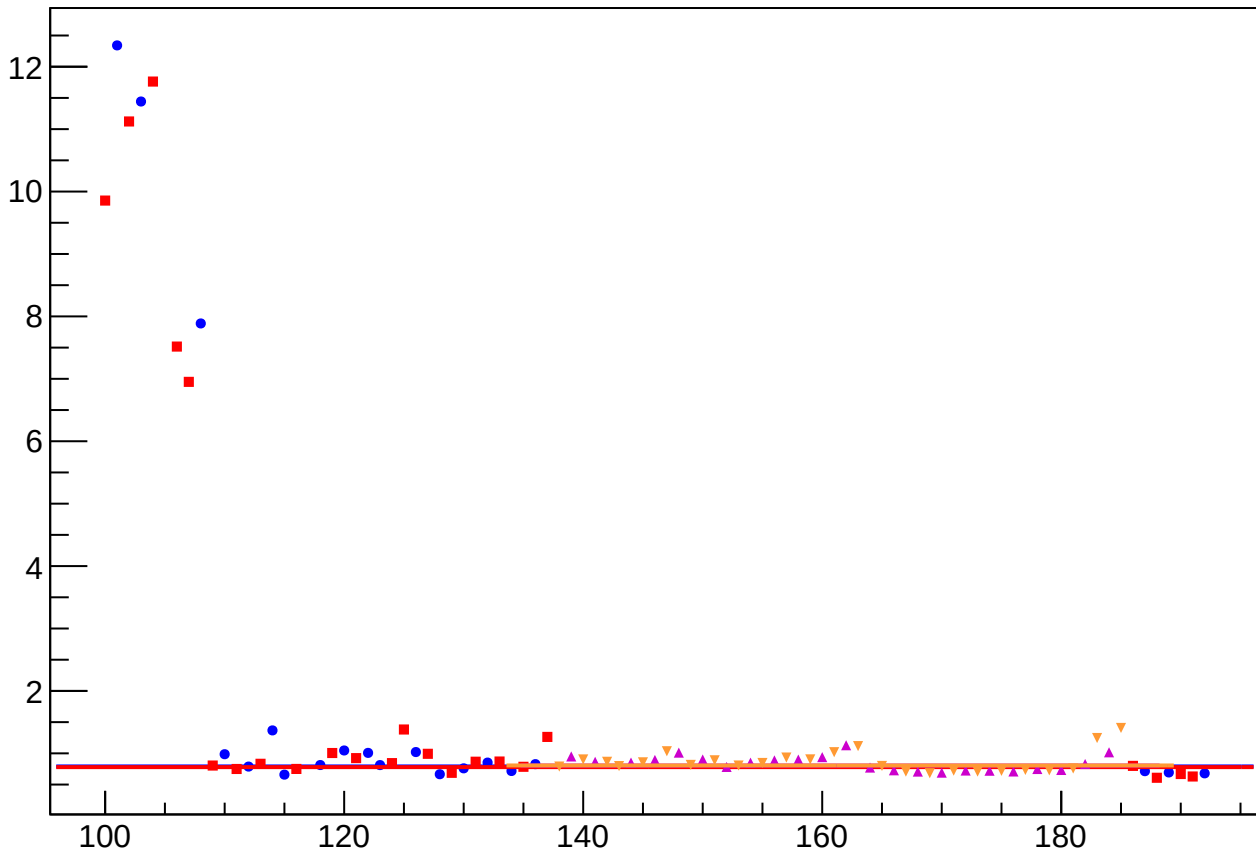
Right: 153.903 $\pm$ 0.000 χ^2 /NDF: 59436782554.2/42

In: 139.091 $\pm$ 0.000 χ^2 /NDF: 32547659595.3/42

Out: 139.629 $\pm$ 0.000 χ^2 /NDF: 40594529388.6/47

All: 139.368 $\pm$ 0.000 χ^2 /NDF: 73146802820.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.790 $\pm$ 0.000 χ^2 /NDF: 2753171.5/19

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.779 $\pm$ 0.000 χ^2 /NDF: 3091486.3/22

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

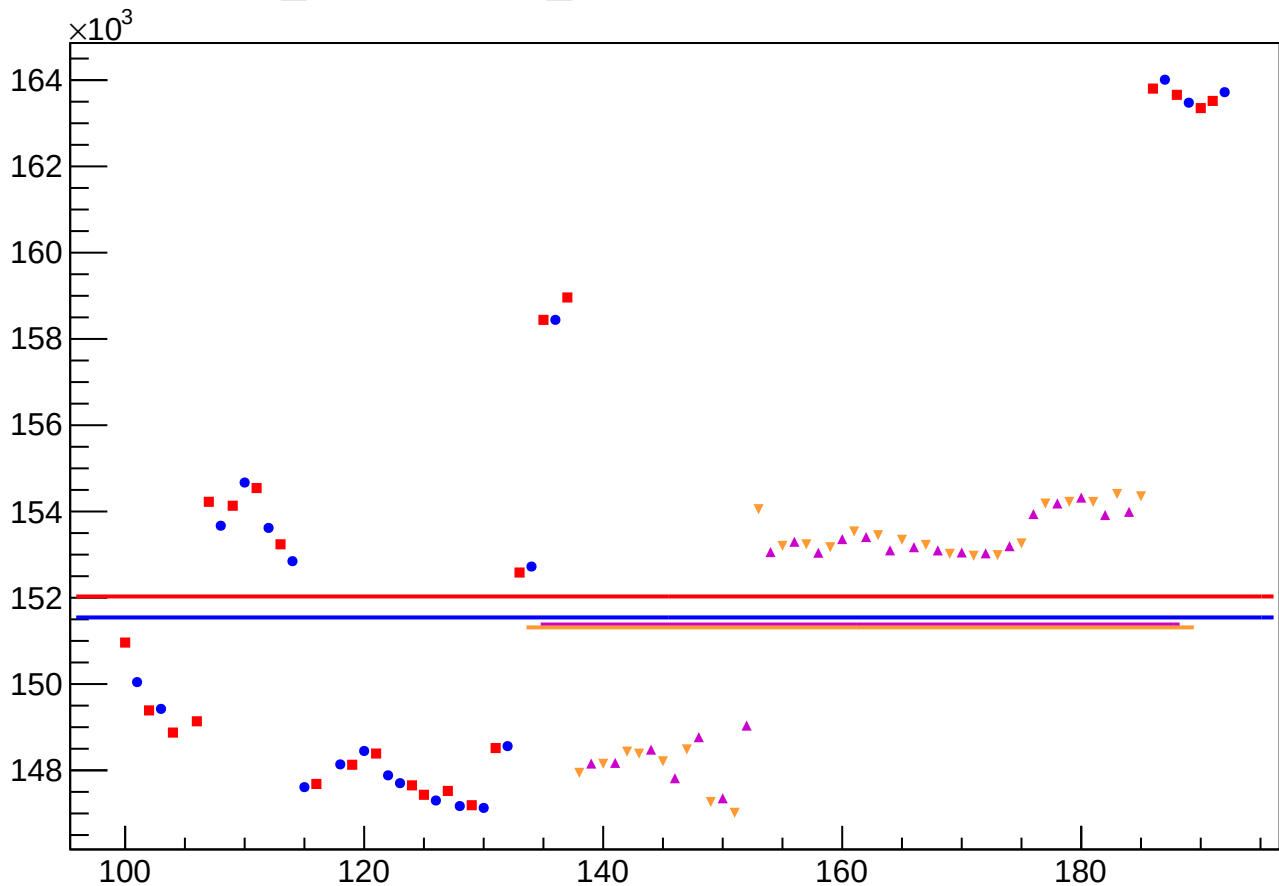
Right: 0.784 $\pm$ 0.000 χ^2 /NDF: 5845674.7/42

In: 0.801 $\pm$ 0.000 χ^2 /NDF:3236238.3/42

Out: 0.799 $\pm$ 0.000 χ^2 /NDF:3791505.9/47

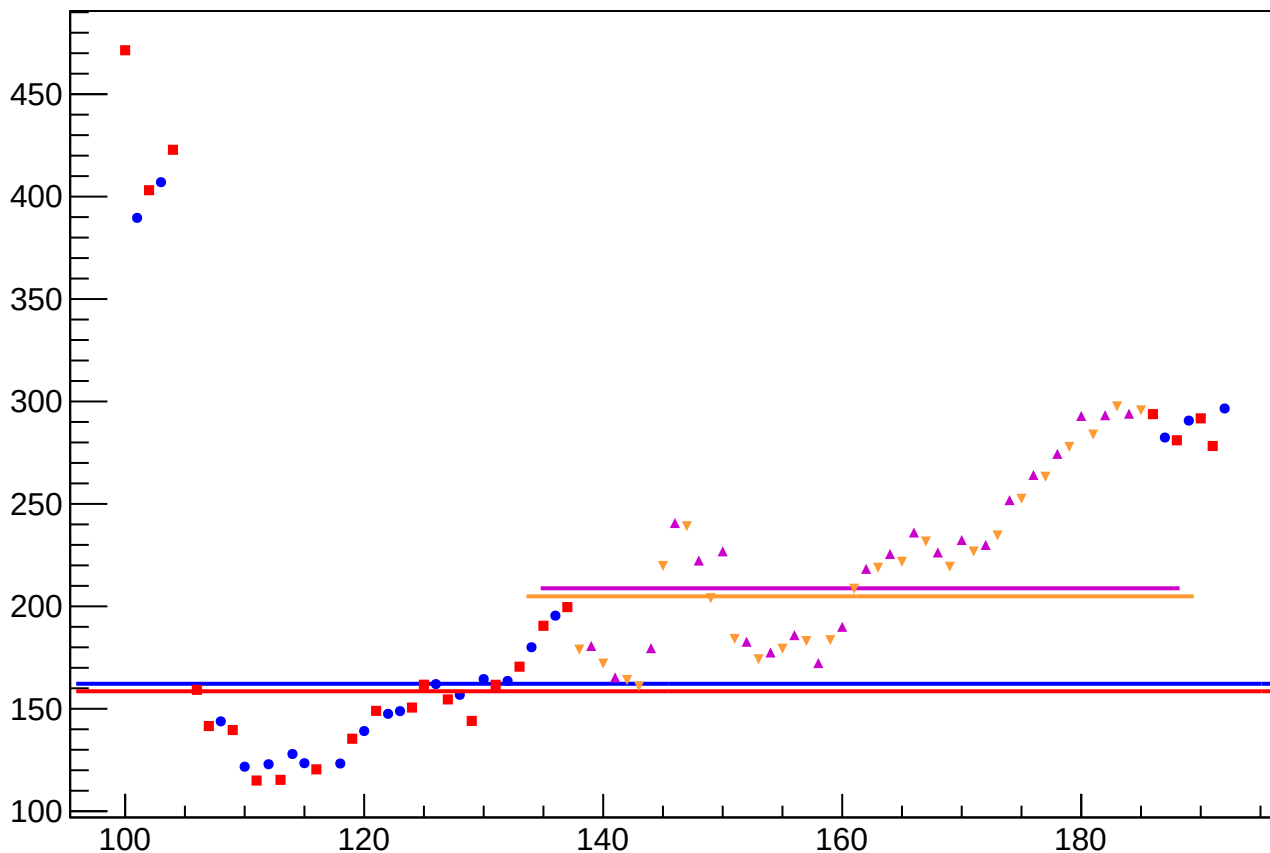
All: 0.800 $\pm$ 0.000 χ^2 /NDF: 7027902.5/90

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 151543.948 $\pm$ 0.061 χ^2 /NDF: 6108194370.9/19
 Left Out: 151313.284 $\pm$ 0.049 χ^2 /NDF: 3153768134.8/24
 Right Out: 152030.411 $\pm$ 0.057 χ^2 /NDF: 6614639561.2/22
 Left In: 151380.236 $\pm$ 0.051 χ^2 /NDF: 2363895785.3/22
 Left: 151345.082 $\pm$ 0.035 χ^2 /NDF: 5518562148.3/4
 Right: 151801.753 $\pm$ 0.042 χ^2 /NDF: 12756572651.1
 In: 151447.926 $\pm$ 0.039 χ^2 /NDF: 8476319204.9/42
 Out: 151613.210 $\pm$ 0.037 χ^2 /NDF: 9859155292.7/4
 All: 151535.047 $\pm$ 0.027 χ^2 /NDF: 18344843

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 162.210 $\pm$ 0.043 χ^2/NDF : 1810118.5/19

Left Out: 204.900 $\pm$ 0.034 χ^2/NDF : 1056380.8/24

Right Out: 158.554 $\pm$ 0.041 χ^2/NDF : 1981539.7/22

Left In: 208.813 $\pm$ 0.036 χ^2/NDF : 1001936.6/22

Left: 206.758 $\pm$ 0.025 χ^2/NDF : 2064453.9/47

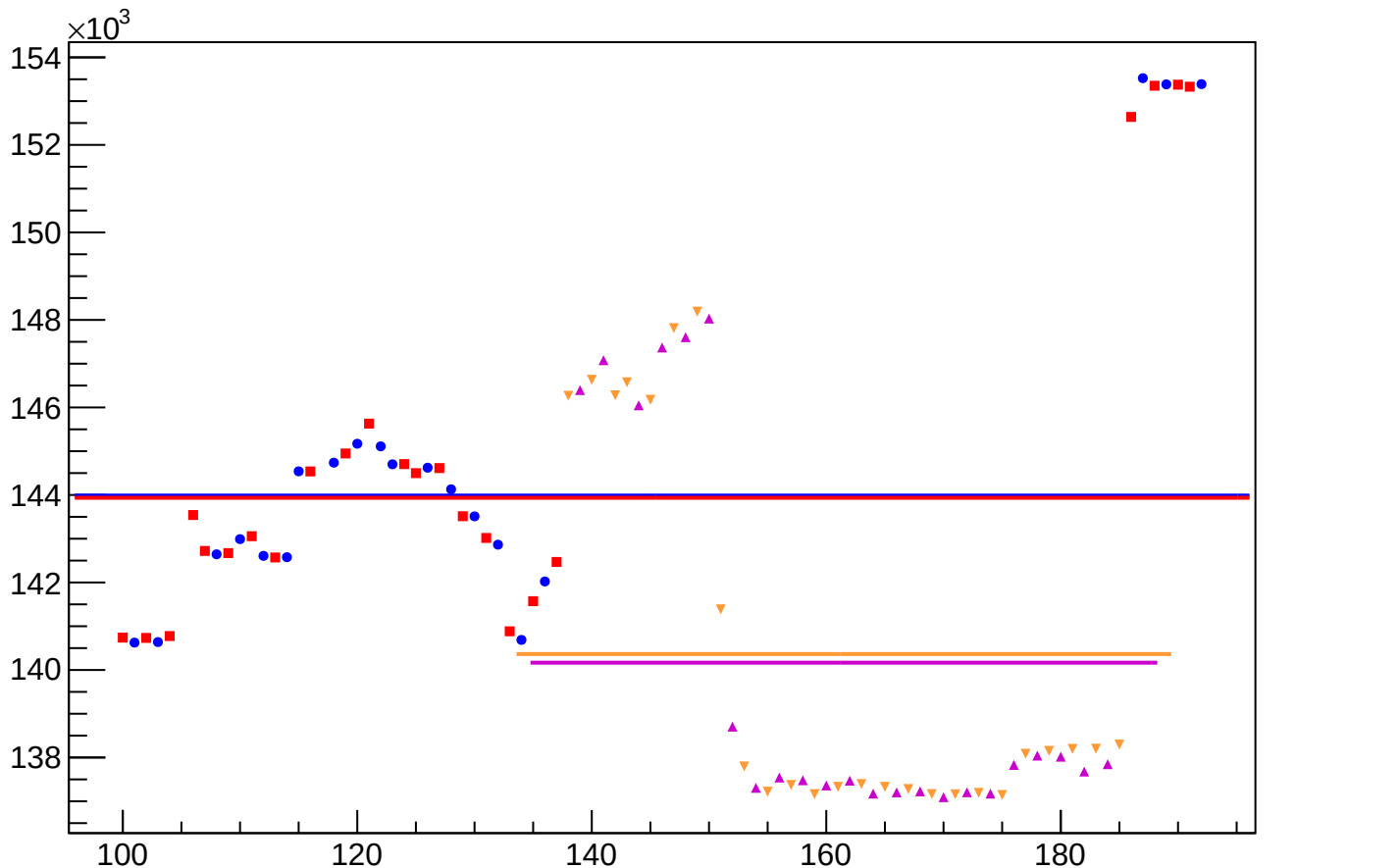
Right: 160.273 $\pm$ 0.030 χ^2/NDF : 3795468.5/42

In: 189.544 $\pm$ 0.028 χ^2/NDF : 3497442.7/42

Out: 185.516 $\pm$ 0.026 χ^2/NDF : 3795948.3/47

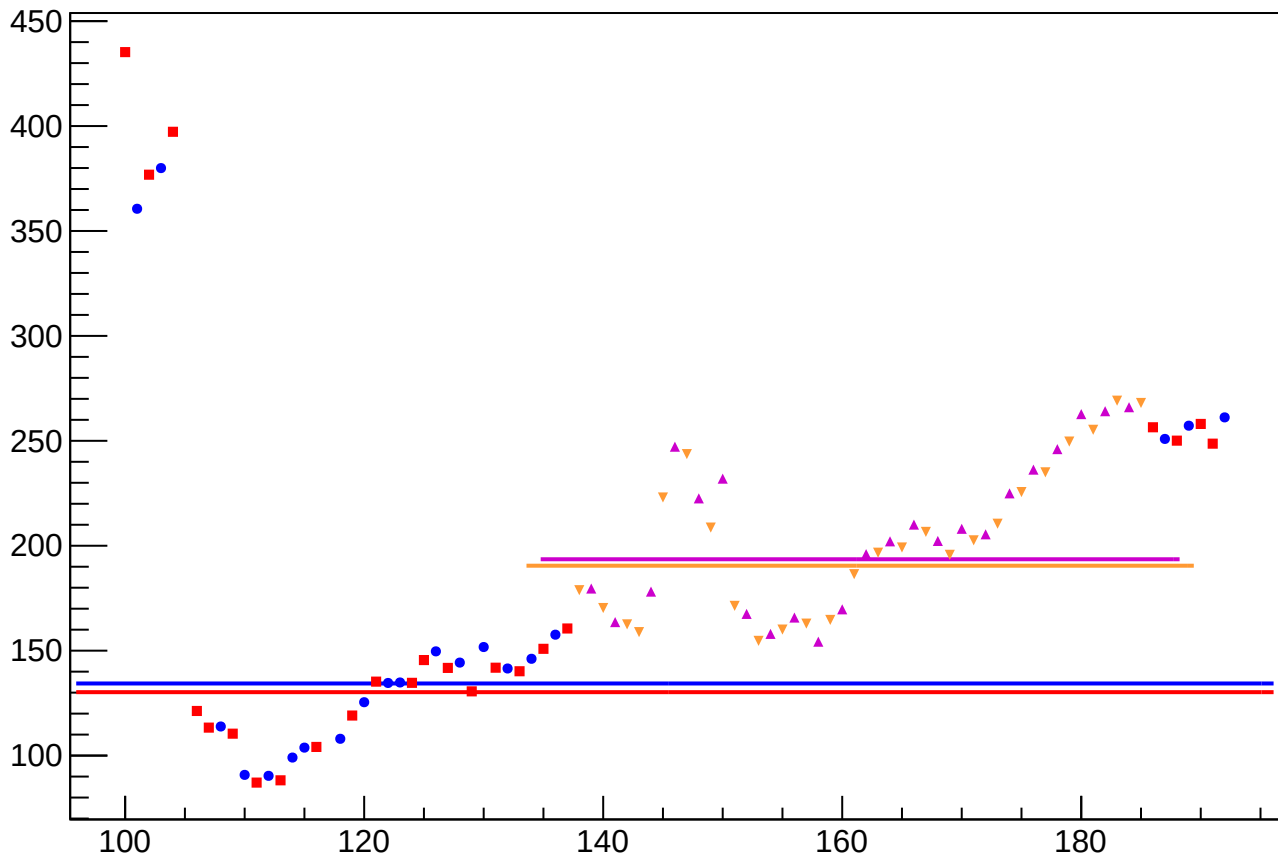
All: 187.421 $\pm$ 0.019 χ^2/NDF : 7304517.1/90

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143985.956 $\pm$ 0.051	χ^2 /NDF: 2677038167.3/19	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 143959.002 $\pm$ 0.035	χ^2 /NDF: 5970311775.2
Right Out: 143935.819 $\pm$ 0.047	χ^2 /NDF: 3292757846.2/22	In: 141931.946 $\pm$ 0.035	χ^2 /NDF: 13699318175.7/4
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 142063.324 $\pm$ 0.033	χ^2 /NDF: 14937228975.9
		All: 142001.631 $\pm$ 0.024	χ^2 /NDF: 286441075

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 134.362 $\pm$ 0.036 χ^2/NDF : 2196565.6/19

Left Out: 190.486 $\pm$ 0.032 χ^2/NDF :950233.2/24

Right Out: 130.222 $\pm$ 0.034 χ^2/NDF : 2392253.4/22

Left In: 193.558 $\pm$ 0.034 χ^2/NDF :963675.0/22

Left: 191.948 $\pm$ 0.023 χ^2/NDF : 1918302.4/47

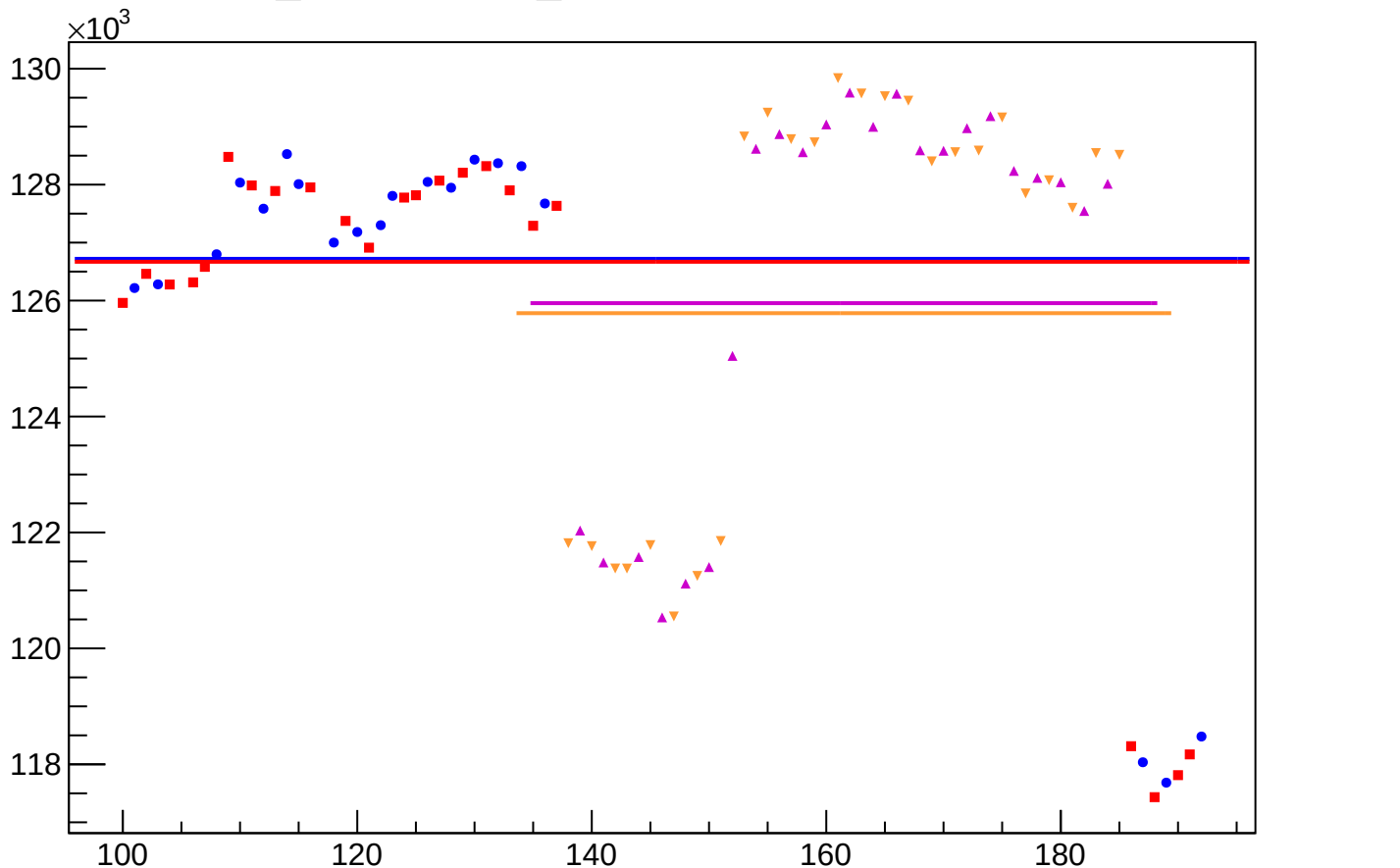
Right: 132.136 $\pm$ 0.025 χ^2/NDF : 4595852.1/42

In: 166.200 $\pm$ 0.025 χ^2/NDF :4598863.4/42

Out: 161.819 $\pm$ 0.023 χ^2/NDF :5032334.6/47

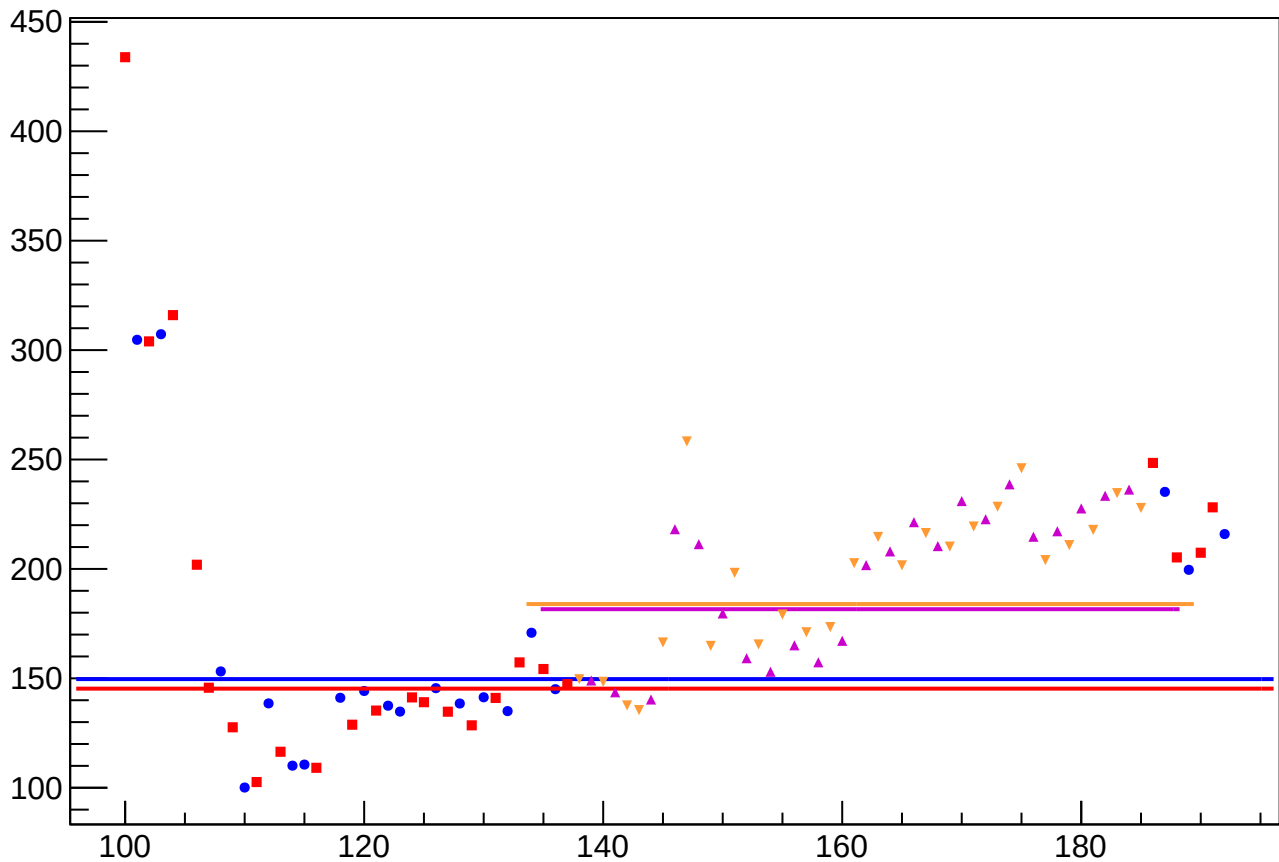
All: 163.876 $\pm$ 0.017 χ^2/NDF : 9648015.3/90

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 126719.709 $\pm$ 0.055	χ^2 /NDF: 2878635359.3/19	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/19
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 126693.076 $\pm$ 0.038	χ^2 /NDF: 6536310932.7/24
Right Out: 126669.720 $\pm$ 0.052	χ^2 /NDF: 3657236908.5/22	In: 126259.827 $\pm$ 0.035	χ^2 /NDF: 8798498485.4/42
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 126156.291 $\pm$ 0.033	χ^2 /NDF: 10558099334.5/22
		All: 126206.115 $\pm$ 0.024	χ^2 /NDF: 193612003.1/100

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 149.654+/-0.039 χ^2/NDF : 1134363.6/19

Left Out: 183.947+/-0.031 χ^2/NDF : 1123194.0/24

Right Out: 145.298+/-0.036 χ^2/NDF : 1409823.2/22

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

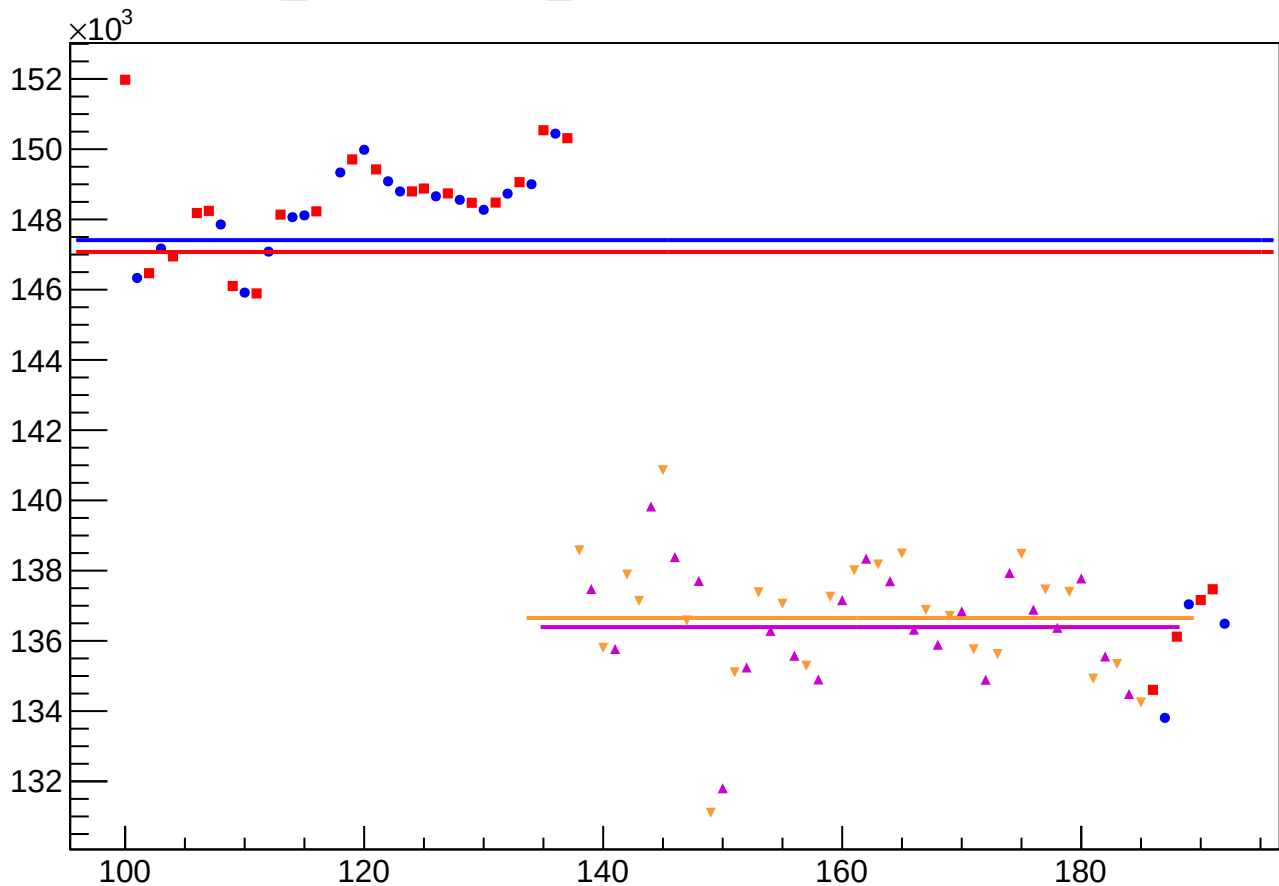
Right: 147.333+/-0.027 χ^2/NDF : 2550849.3/42

In: 168.879+/-0.025 χ^2/NDF : 2642537.1/42

Out: 167.671+/-0.024 χ^2/NDF : 3182762.3/47

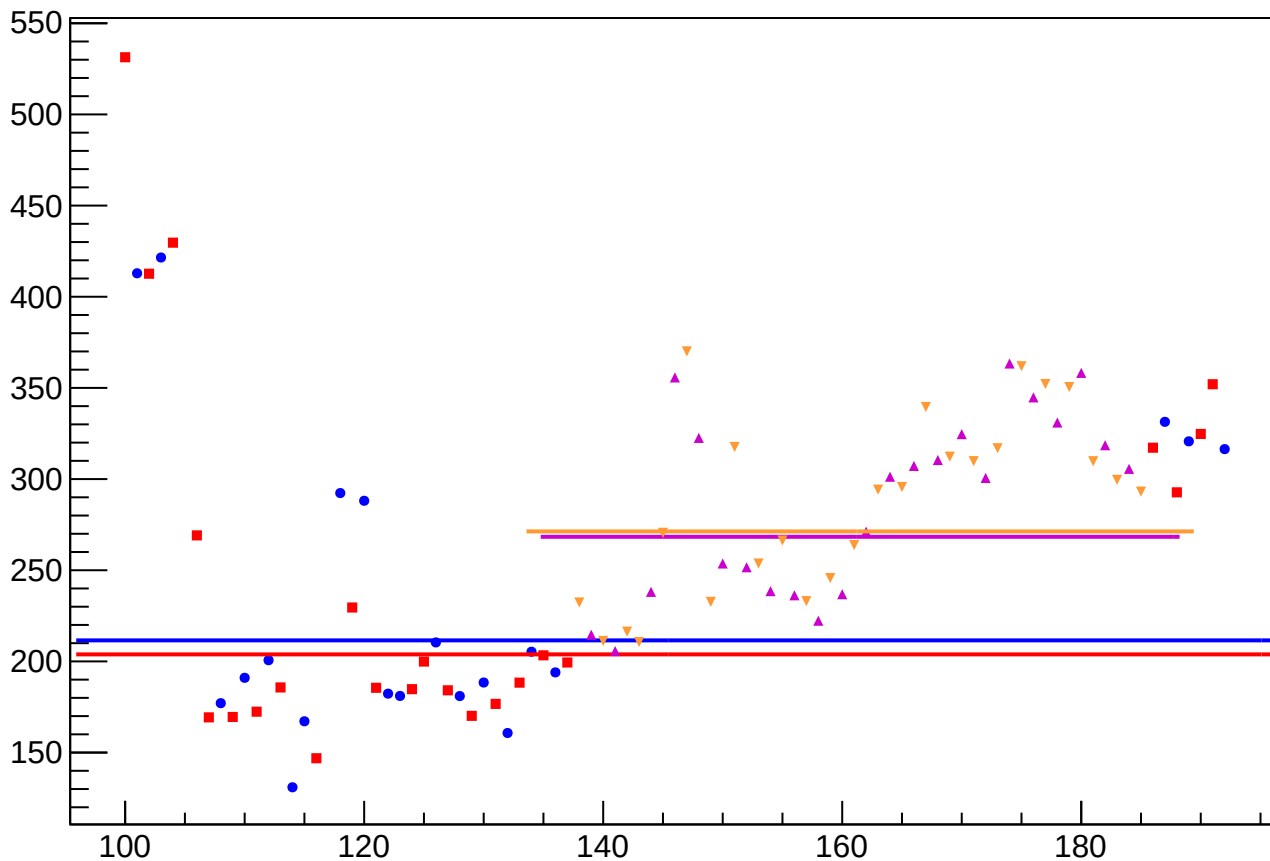
All: 168.252+/-0.017 χ^2/NDF : 5826554.2/90

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 147410.911 $\pm$ 0.078	χ^2 /NDF: 2223550673.6/19	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: 147229.050 $\pm$ 0.053	χ^2 /NDF: 5085070081.3/4
Right Out: 147073.499 $\pm$ 0.072	χ^2 /NDF: 2851530800.3/22	In: 140961.047 $\pm$ 0.050	χ^2 /NDF: 14494260260.6/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 141266.572 $\pm$ 0.048	χ^2 /NDF: 15300621317.3/4
		All: 141120.715 $\pm$ 0.035	χ^2 /NDF: 298140320.0/4

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 211.532 $\pm$ 0.055 χ^2 /NDF: 1319447.9/19

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF: 1064485.7/24

Right Out: 203.851 $\pm$ 0.051 χ^2 /NDF: 1333736.1/22

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF: 1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

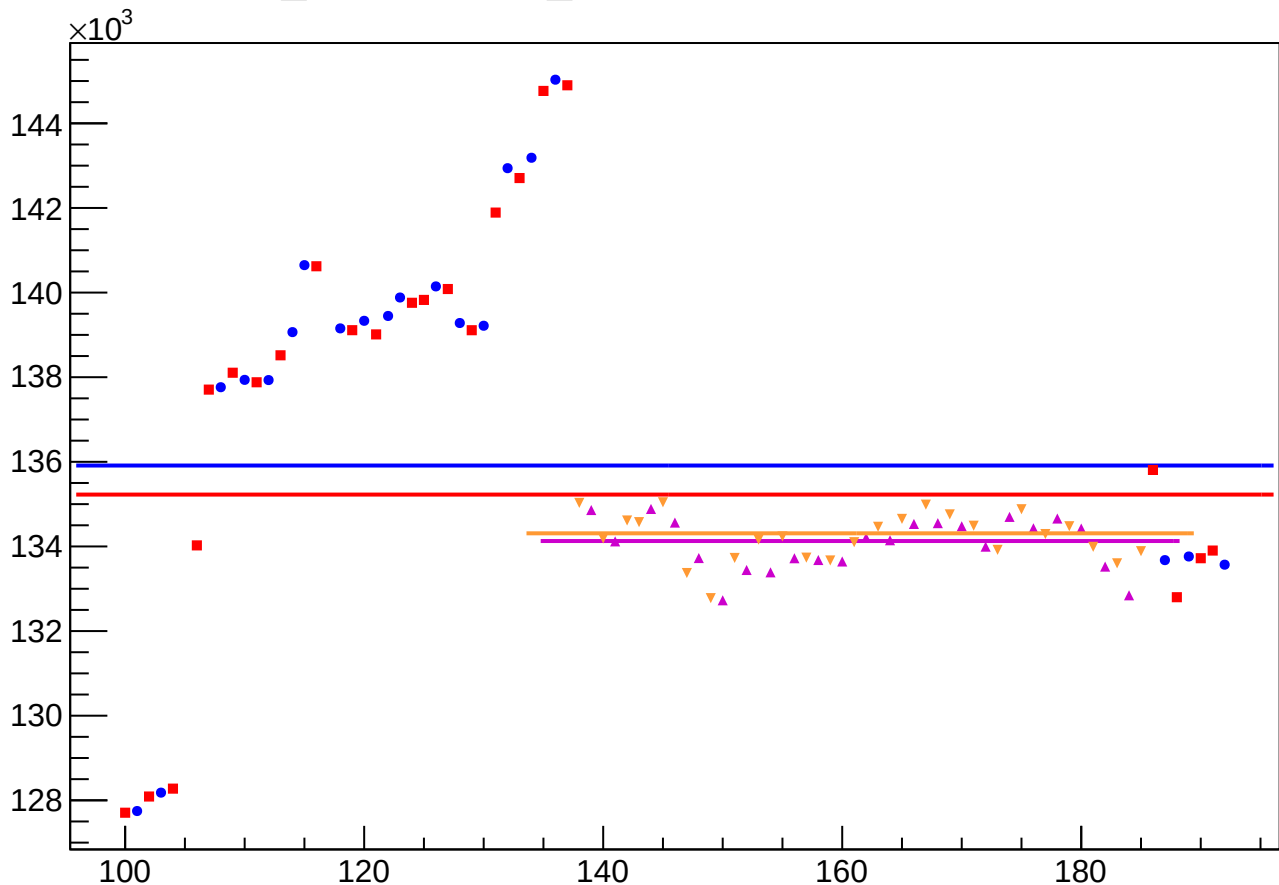
Right: 207.392 $\pm$ 0.038 χ^2 /NDF: 2663535.8/42

In: 244.787 $\pm$ 0.036 χ^2 /NDF: 3011879.5/42

Out: 241.428 $\pm$ 0.034 χ^2 /NDF: 3362843.3/47

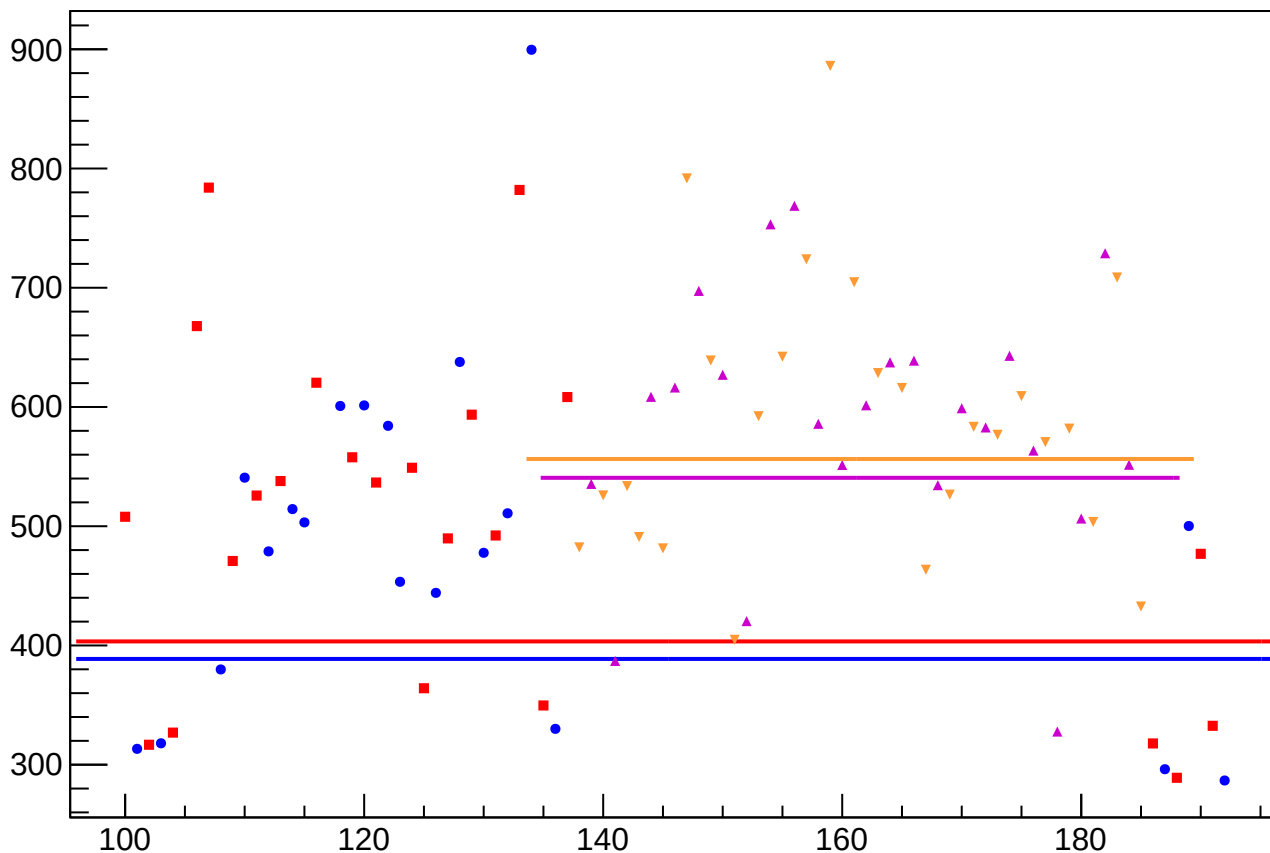
All: 243.031 $\pm$ 0.025 χ^2 /NDF: 6379353.3/90

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 135912.493 $\pm$ 0.151	χ^2 /NDF: 1562232912.6/19	Left: 134221.438 $\pm$ 0.099	χ^2 /NDF: 31894688.0/47
Left Out: 134310.250 $\pm$ 0.139	χ^2 /NDF: 15518632.9/24	Right: 135569.220 $\pm$ 0.107	χ^2 /NDF: 2724279467.9/
Right Out: 135225.876 $\pm$ 0.151	χ^2 /NDF: 1151693059.2/22	In: 134966.200 $\pm$ 0.103	χ^2 /NDF: 1651937002.7/42
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 134729.098 $\pm$ 0.102	χ^2 /NDF: 1187188335.5/4
		All: 134846.099 $\pm$ 0.073	χ^2 /NDF: 28417886

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 388.704 $\pm$ 0.107 χ^2 /NDF: 1068223.6/19

Left Out: 556.381 $\pm$ 0.098 χ^2 /NDF:1002064.0/24

Right Out: 403.397 $\pm$ 0.107 χ^2 /NDF: 1295100.5/22

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

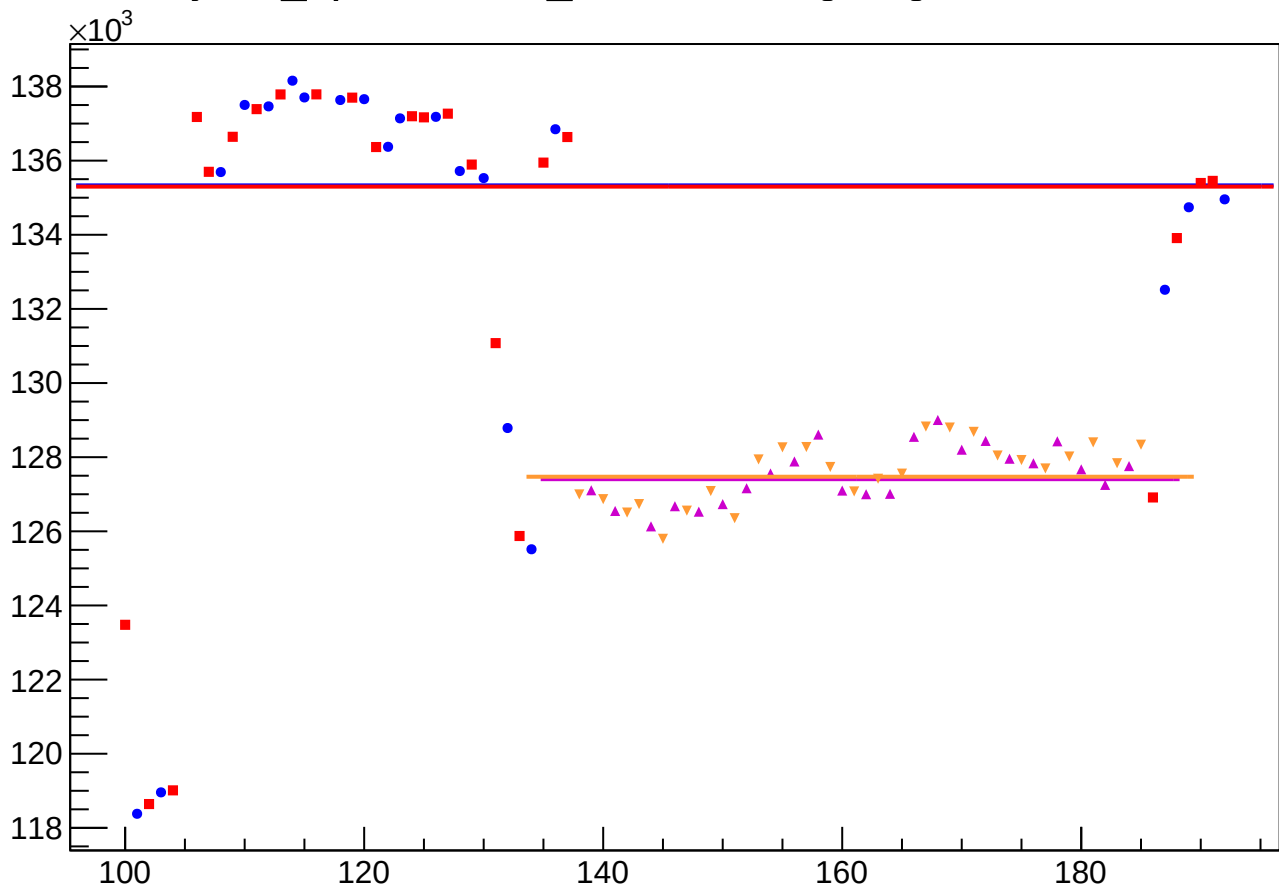
Right: 396.050 $\pm$ 0.075 χ^2 /NDF: 2372806.4/42

In: 469.264 $\pm$ 0.073 χ^2 /NDF:3552331.3/42

Out: 486.400 $\pm$ 0.072 χ^2 /NDF:3412511.3/47

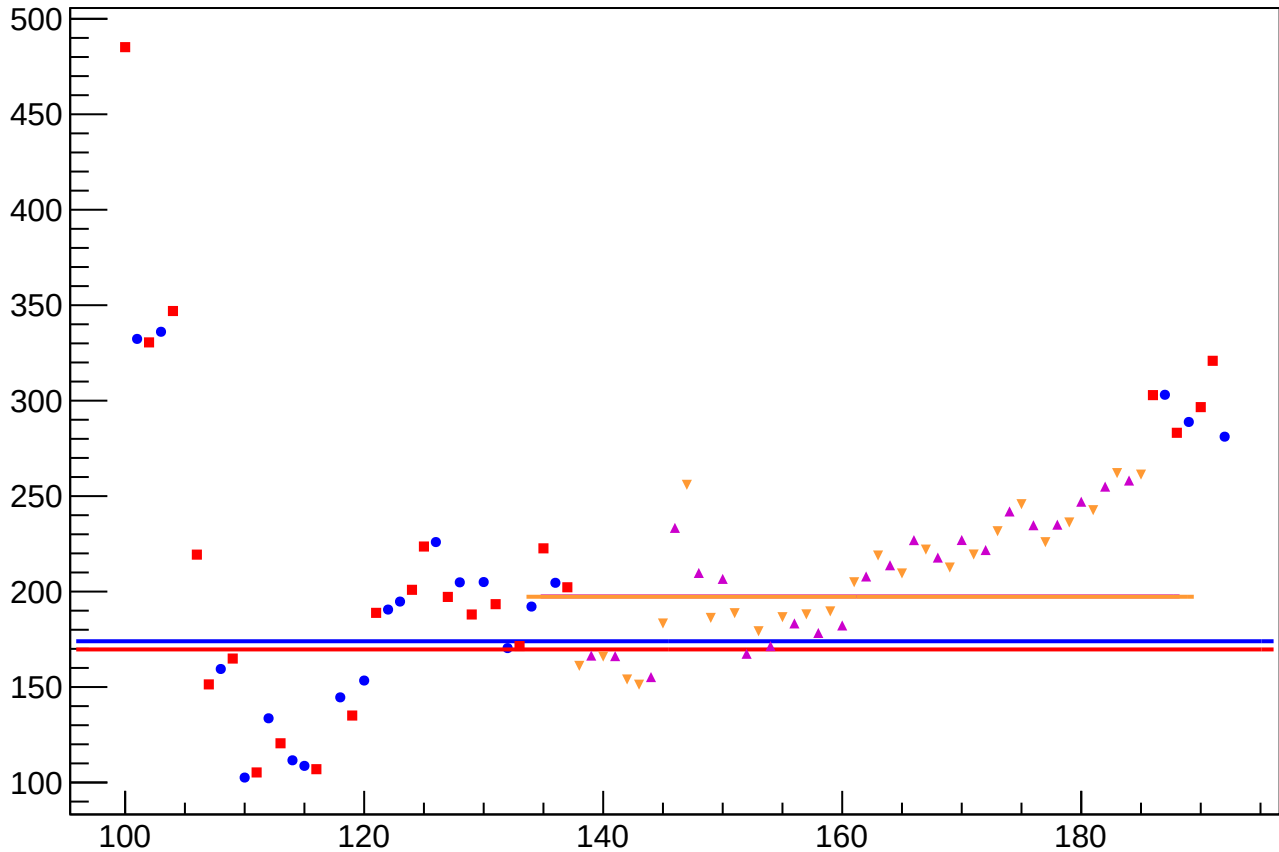
All: 477.944 $\pm$ 0.051 χ^2 /NDF: 6992664.7/90

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135332.601 $\pm$ 0.066	χ^2 /NDF: 4595081849.8/19	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135314.854 $\pm$ 0.045	χ^2 /NDF: 9646399396.0/24
Right Out: 135299.108 $\pm$ 0.062	χ^2 /NDF: 5051179214.7/22	In: 130200.513 $\pm$ 0.039	χ^2 /NDF: 14331102022.7/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130332.671 $\pm$ 0.037	χ^2 /NDF: 15550893700.5/24
		All: 130269.351 $\pm$ 0.027	χ^2 /NDF: 298880024.7/24

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 173.984 $\pm$ 0.046 χ^2 /NDF: 1734021.7/19

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 169.690 $\pm$ 0.044 χ^2 /NDF: 2092217.9/22

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

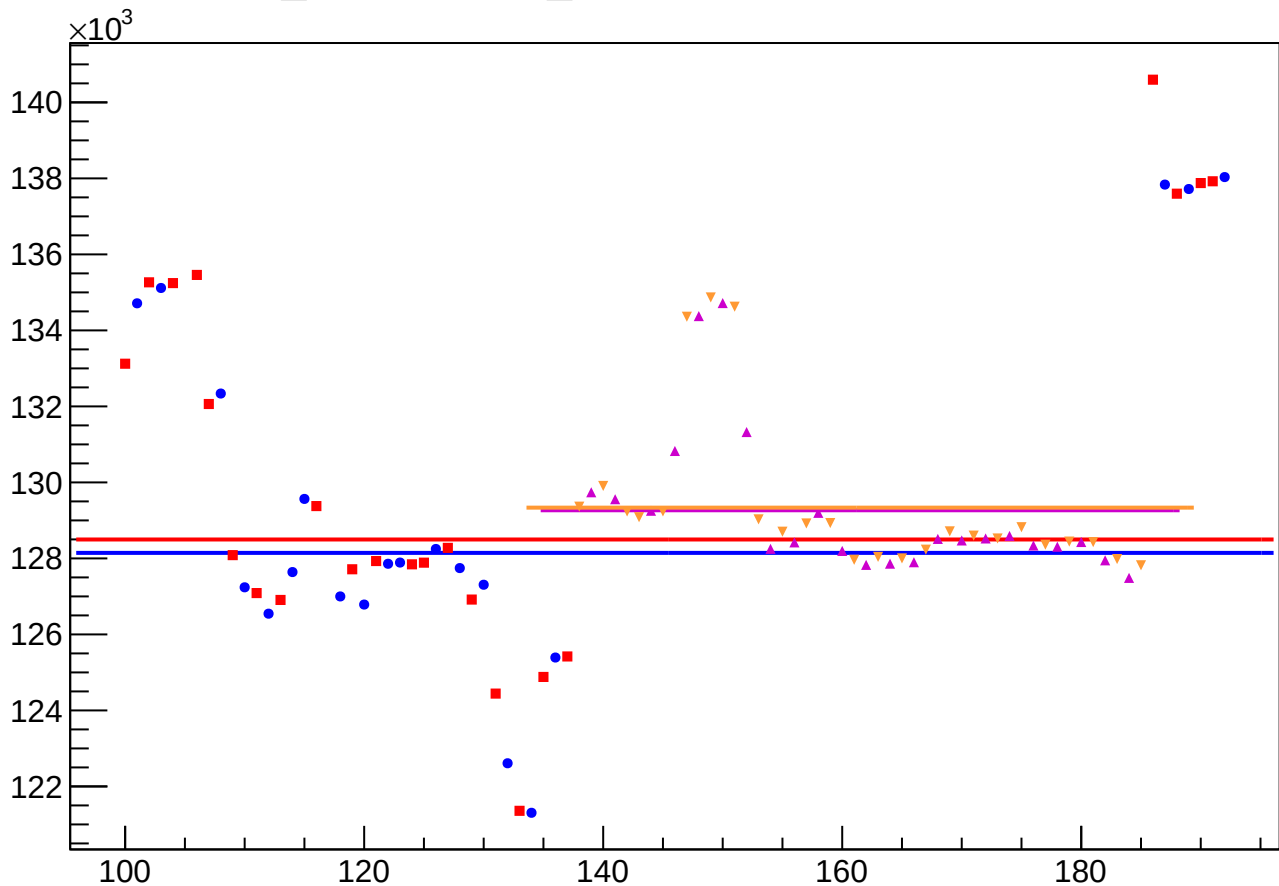
Right: 171.709 $\pm$ 0.032 χ^2 /NDF: 3830787.1/42

In: 189.192 $\pm$ 0.028 χ^2 /NDF: 2691856.2/42

Out: 187.203 $\pm$ 0.026 χ^2 /NDF: 3197821.3/47

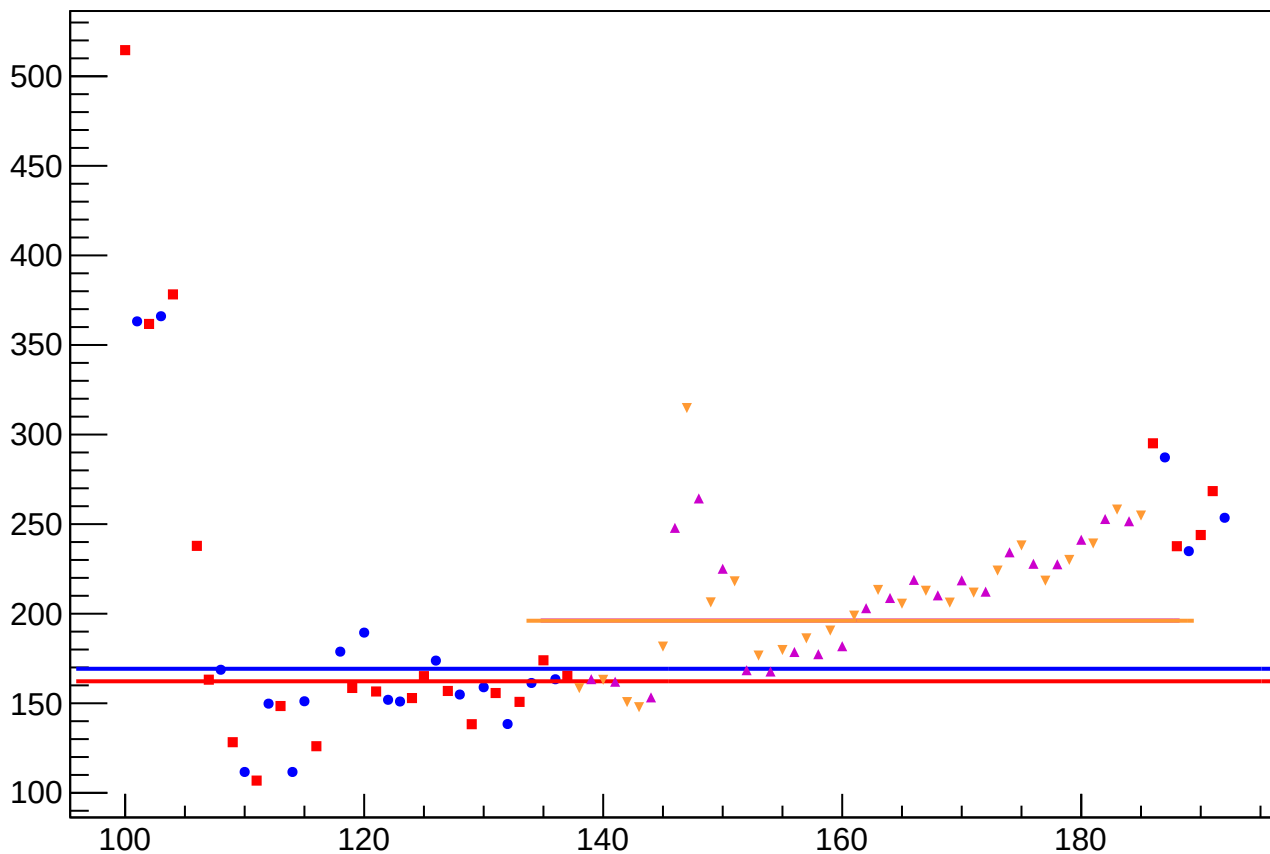
All: 188.156 $\pm$ 0.019 χ^2 /NDF: 5892398.7/90

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 128145.389+/-0.063	χ^2/NDF : 4308826385.1/19	Left: 129302.466+/-0.034	χ^2/NDF : 2665755007.2/4
Left Out: 129335.946+/-0.047	χ^2/NDF : 1450933621.0/24	Right: 128335.226+/-0.043	χ^2/NDF : 9445445900.2/4
Right Out: 128497.961+/-0.058	χ^2/NDF : 5119813945.7/22	In: 128854.208+/-0.038	χ^2/NDF : 5722192484.7/42
Left In: 129266.909+/-0.048	χ^2/NDF : 1213762773.1/22	Out: 129009.075+/-0.036	χ^2/NDF : 6696199436.3/4
		All: 128935.346+/-0.026	χ^2/NDF : 124269658

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 169.258 $\pm$ 0.045 χ^2 /NDF: 1300231.7/19

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 162.272 $\pm$ 0.041 χ^2 /NDF: 1621799.7/22

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

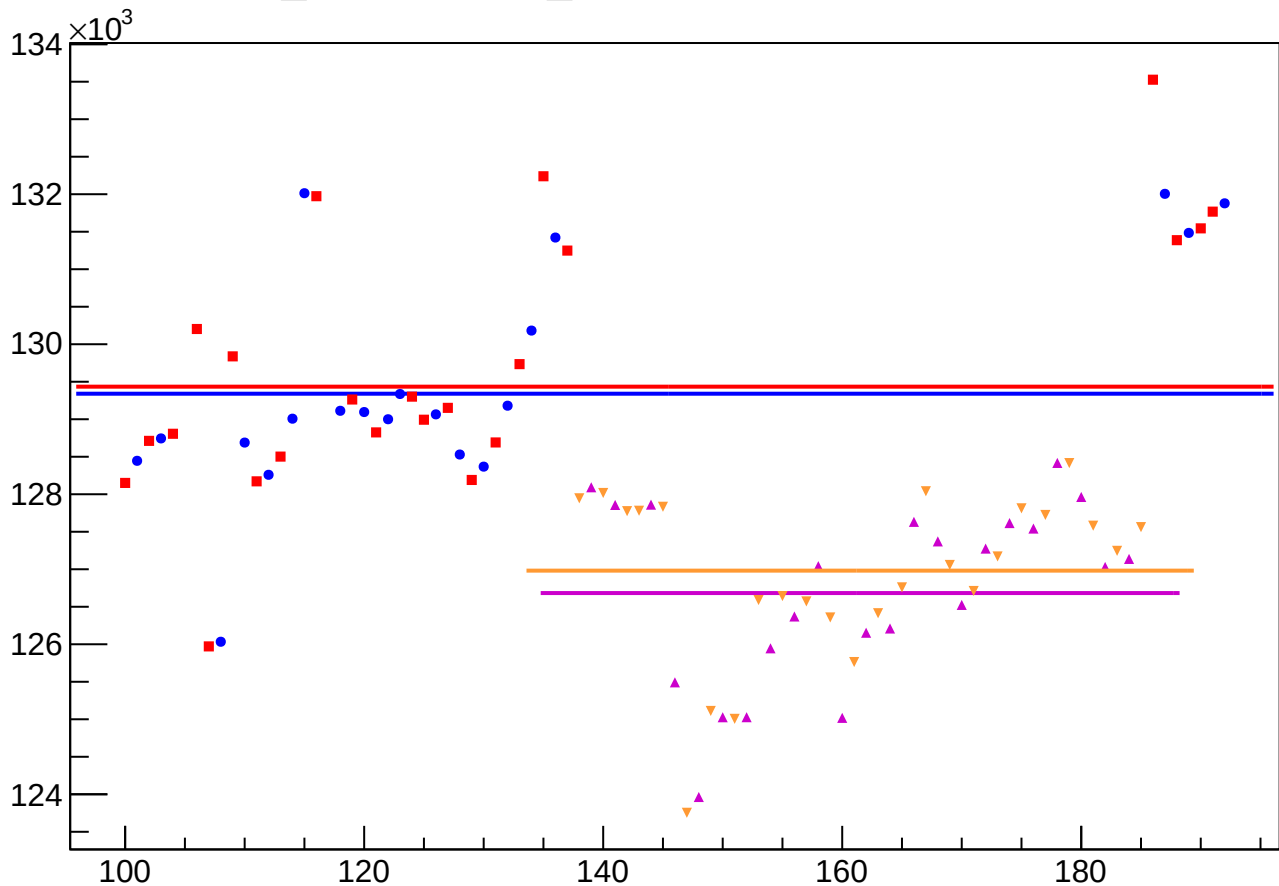
Right: 165.497 $\pm$ 0.030 χ^2 /NDF: 2935227.5/42

In: 186.277 $\pm$ 0.027 χ^2 /NDF: 2428427.3/42

Out: 182.891 $\pm$ 0.026 χ^2 /NDF: 3005830.0/47

All: 184.503 $\pm$ 0.019 χ^2 /NDF: 5442454.7/90

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129340.365 $\pm$ 0.057 χ^2 /NDF: 675706307.9/19

Left Out: 126981.724 $\pm$ 0.046 χ^2 /NDF: 530573115.8/24

Right Out: 129434.341 $\pm$ 0.053 χ^2 /NDF: 848772112.5/22

Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22

Left: 126836.943 $\pm$ 0.033 χ^2 /NDF: 1211882944.2/4

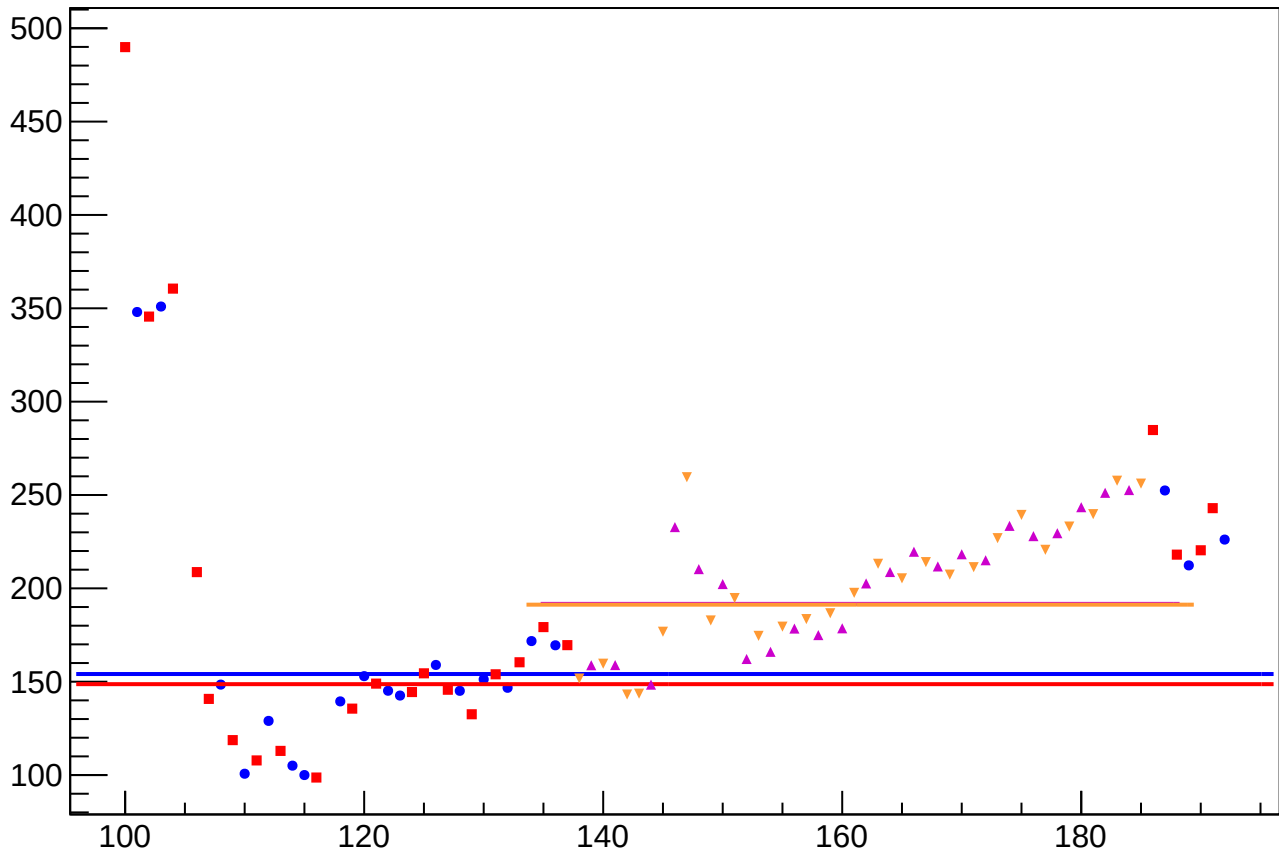
Right: 129390.632 $\pm$ 0.039 χ^2 /NDF: 1525923712.3/4

In: 127754.285 $\pm$ 0.036 χ^2 /NDF: 2625818611.6/42

Out: 128015.960 $\pm$ 0.035 χ^2 /NDF: 2603383962.1/4

All: 127891.333 $\pm$ 0.025 χ^2 /NDF: 525641419

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 154.115 $\pm$ 0.040 χ^2 /NDF: 1400438.9/19

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF:992566.2/24

Right Out: 148.685 $\pm$ 0.038 χ^2 /NDF: 1750185.2/22

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF:864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

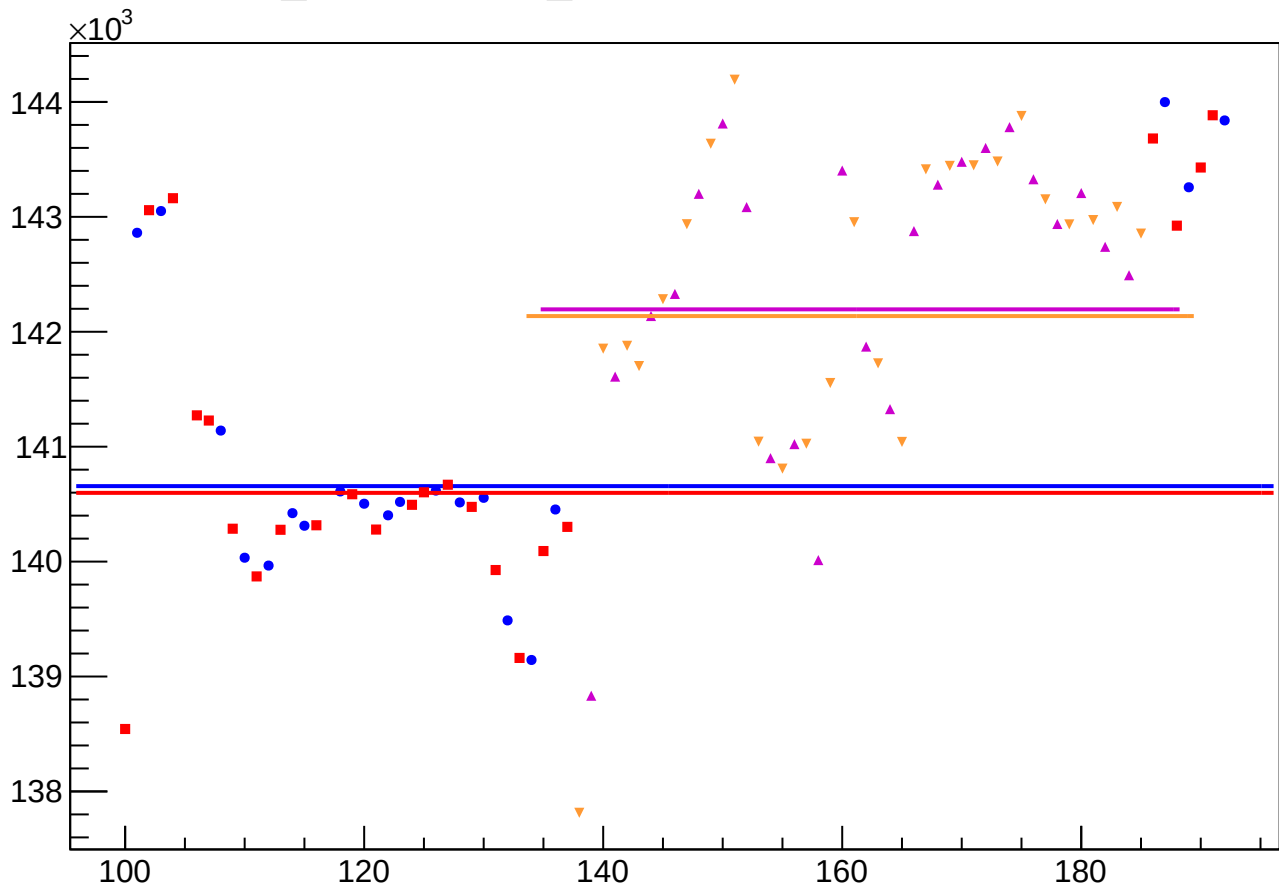
Right: 151.211 $\pm$ 0.028 χ^2 /NDF: 3160274.8/42

In: 176.535 $\pm$ 0.026 χ^2 /NDF:2780197.2/42

Out: 173.309 $\pm$ 0.024 χ^2 /NDF:3480538.5/47

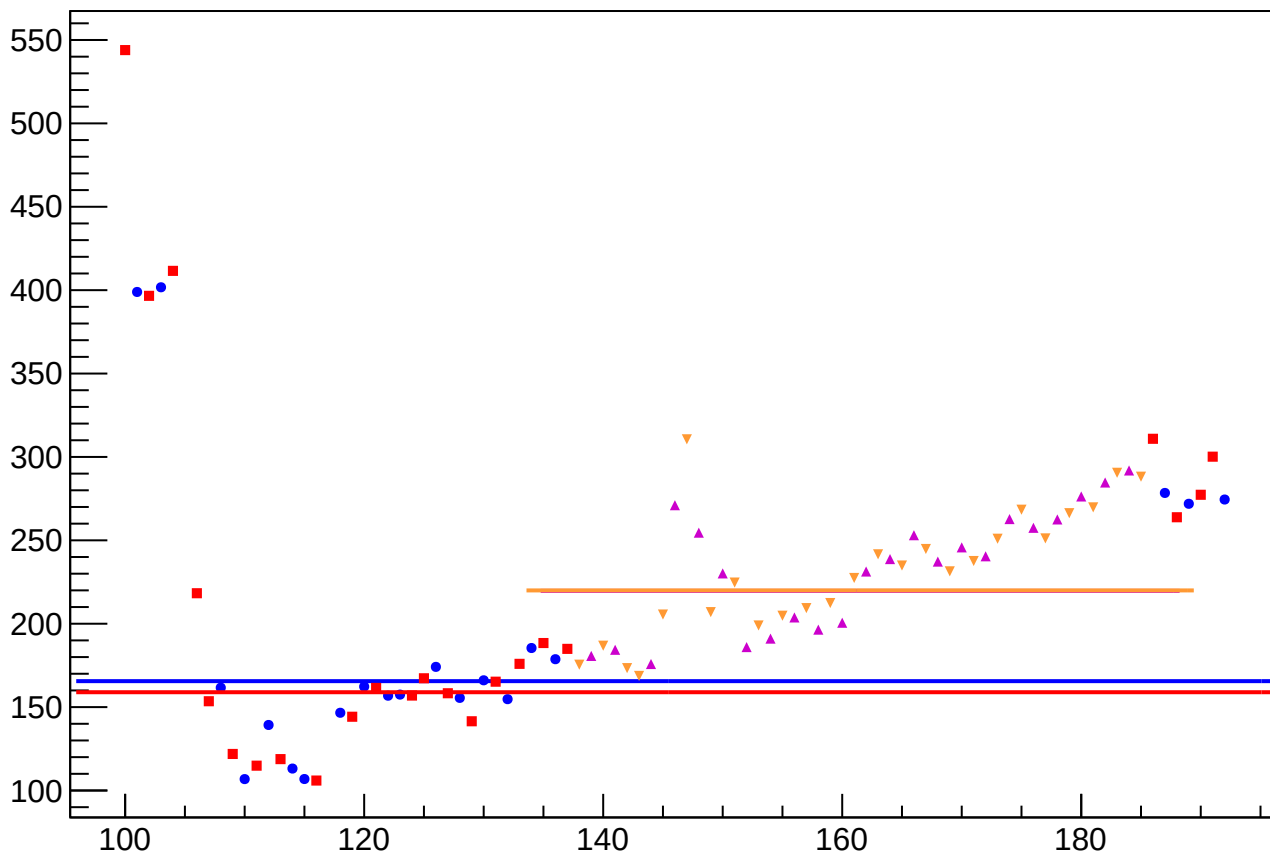
All: 174.845 $\pm$ 0.018 χ^2 /NDF: 6269009.0/90

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140656.828 $\pm$ 0.062	χ^2 /NDF: 290390310.8/19	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: 140625.361 $\pm$ 0.042	χ^2 /NDF: 575307017.8/4
Right Out: 140598.205 $\pm$ 0.057	χ^2 /NDF: 284435177.6/22	In: 141532.133 $\pm$ 0.041	χ^2 /NDF: 1285883227.3/42
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141439.701 $\pm$ 0.039	χ^2 /NDF: 1491564972.6/4
		All: 141483.668 $\pm$ 0.028	χ^2 /NDF: 278016170

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 165.569 $\pm$ 0.044 χ^2/NDF : 1675084.7/19

Left Out: 219.969 $\pm$ 0.037 χ^2/NDF : 866616.3/24

Right Out: 158.924 $\pm$ 0.041 χ^2/NDF : 2052643.6/22

Left In: 219.685 $\pm$ 0.038 χ^2/NDF : 812745.1/22

Left: 219.831 $\pm$ 0.027 χ^2/NDF : 1679390.1/47

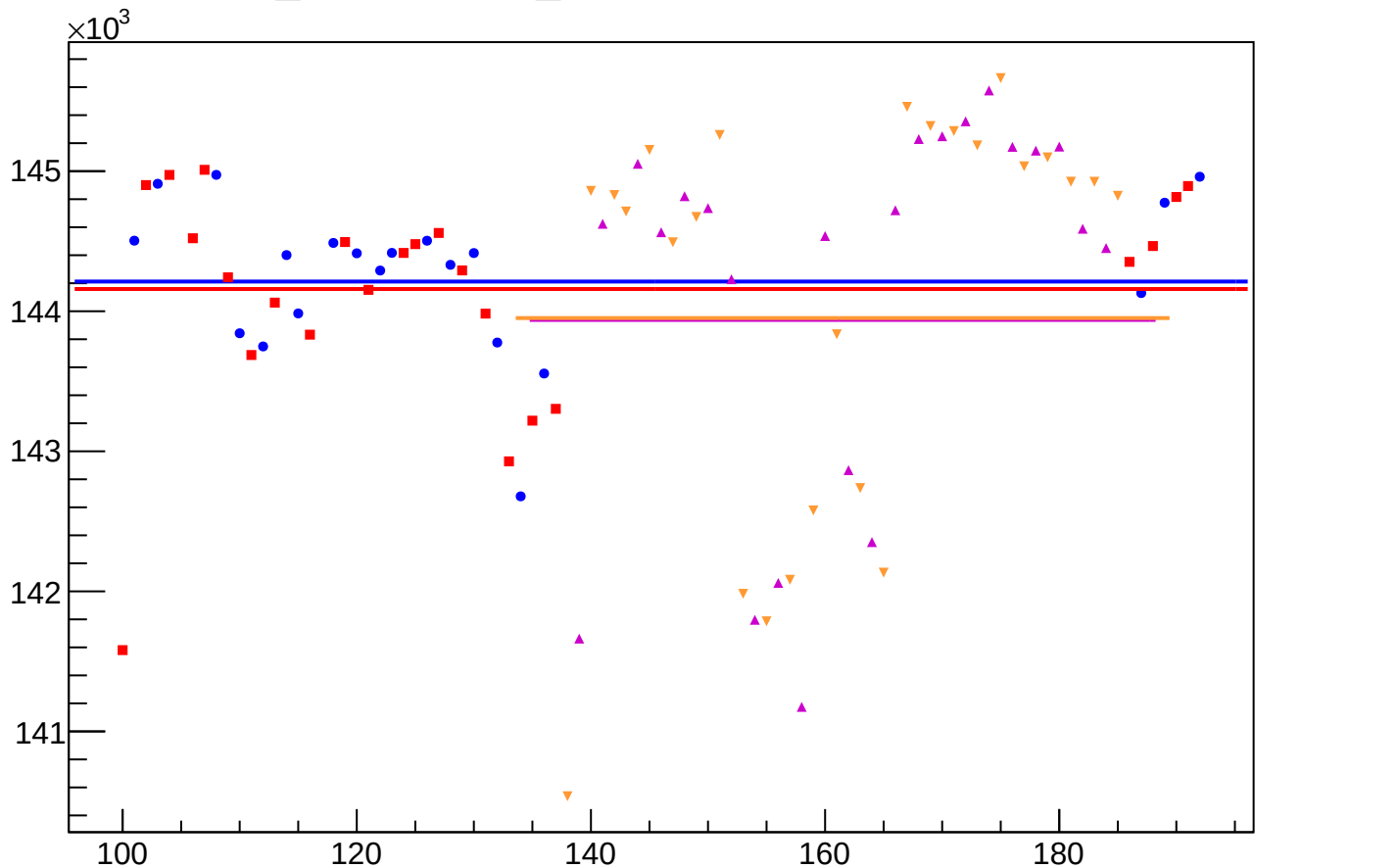
Right: 162.002 $\pm$ 0.030 χ^2/NDF : 3740100.1/42

In: 196.363 $\pm$ 0.029 χ^2/NDF : 3357869.3/42

Out: 192.316 $\pm$ 0.027 χ^2/NDF : 4152366.8/47

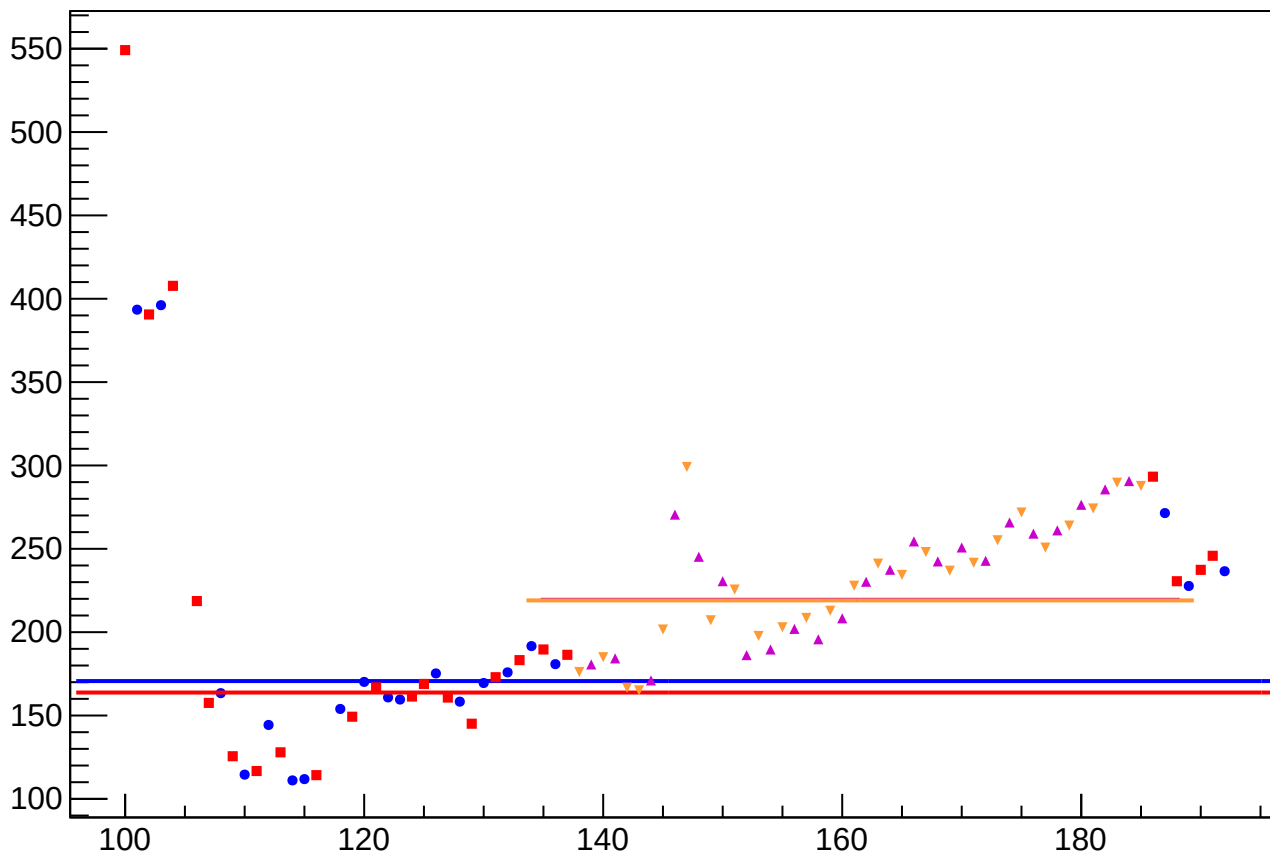
All: 194.241 $\pm$ 0.020 χ^2/NDF : 7520640.7/90

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144212.067 $\pm$ 0.063	χ^2/NDF : 60348289.7/19	Left: 143944.995 $\pm$ 0.037	χ^2/NDF : 1584524299.4/4
Left Out: 143951.284 $\pm$ 0.052	χ^2/NDF : 864679545.2/24	Right: 144183.424 $\pm$ 0.043	χ^2/NDF : 133209947.3/4
Right Out: 144158.808 $\pm$ 0.059	χ^2/NDF : 72478701.9/22	In: 144053.607 $\pm$ 0.041	χ^2/NDF : 791054056.1/42
Left In: 143938.288 $\pm$ 0.054	χ^2/NDF : 719814685.6/22	Out: 144043.130 $\pm$ 0.039	χ^2/NDF : 944170492.9/47
		All: 144048.101 $\pm$ 0.028	χ^2/NDF : 173525892

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 170.666 $\pm$ 0.045 χ^2 /NDF: 1339735.8/19

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF: 934417.6/24

Right Out: 163.790 $\pm$ 0.041 χ^2 /NDF: 1676856.6/22

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

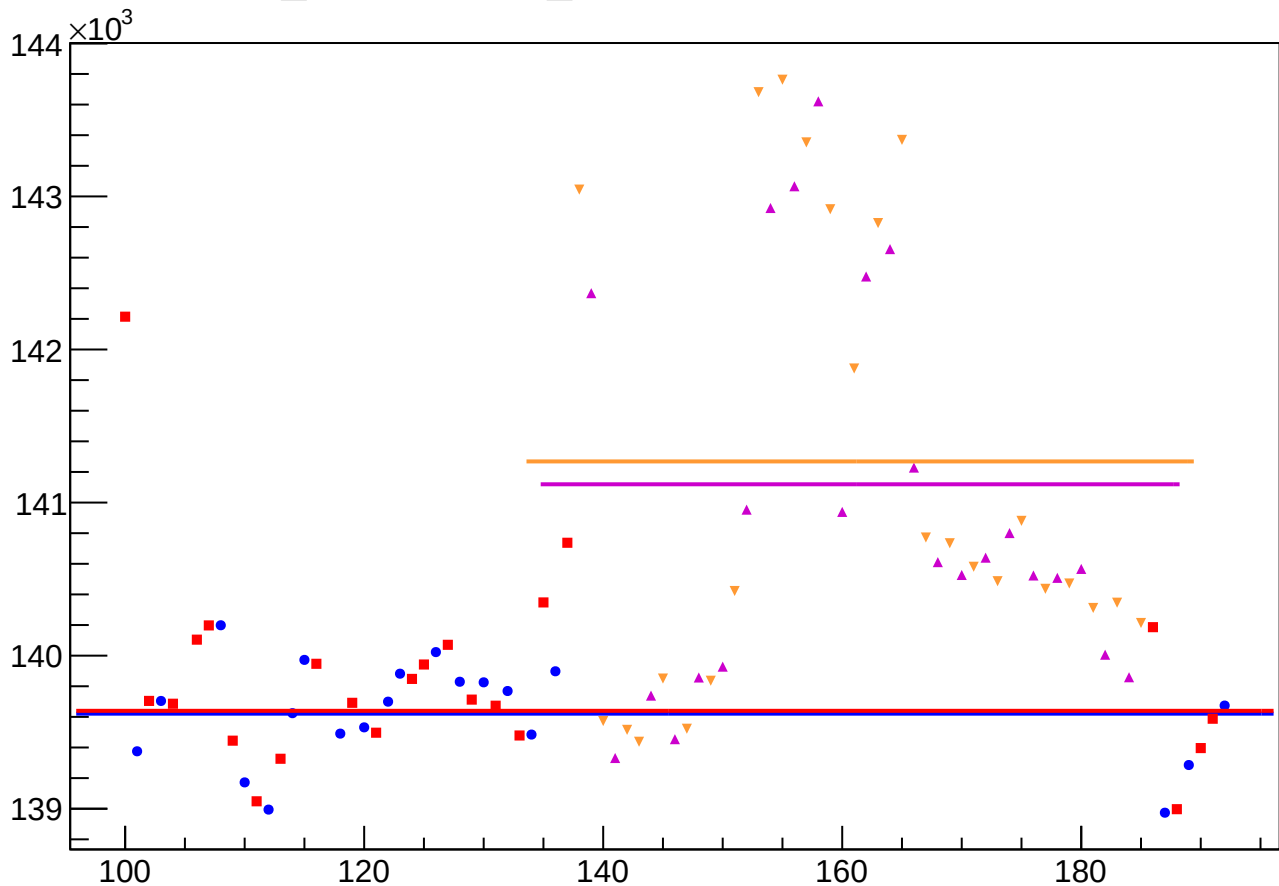
Right: 166.968 $\pm$ 0.030 χ^2 /NDF: 3029359.2/42

In: 198.887 $\pm$ 0.029 χ^2 /NDF: 2880749.2/42

Out: 194.593 $\pm$ 0.028 χ^2 /NDF: 3605701.1/47

All: 196.631 $\pm$ 0.020 χ^2 /NDF: 6498003.0/90

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139621.127 $\pm$ 0.064

χ^2 /NDF: 26584894.1/19

Left Out: 141268.791 $\pm$ 0.054

χ^2 /NDF: 795989244.2/24

Right Out: 139639.624 $\pm$ 0.060

χ^2 /NDF: 44449711.8/22

Left In: 141119.484 $\pm$ 0.055

χ^2 /NDF: 565312728.1/22

Left: 141195.809 $\pm$ 0.038

χ^2 /NDF: 1365080862.2/4

Right: 139630.992 $\pm$ 0.044

χ^2 /NDF: 71078498.5/42

In: 140489.567 $\pm$ 0.042

χ^2 /NDF: 904877809.5/42

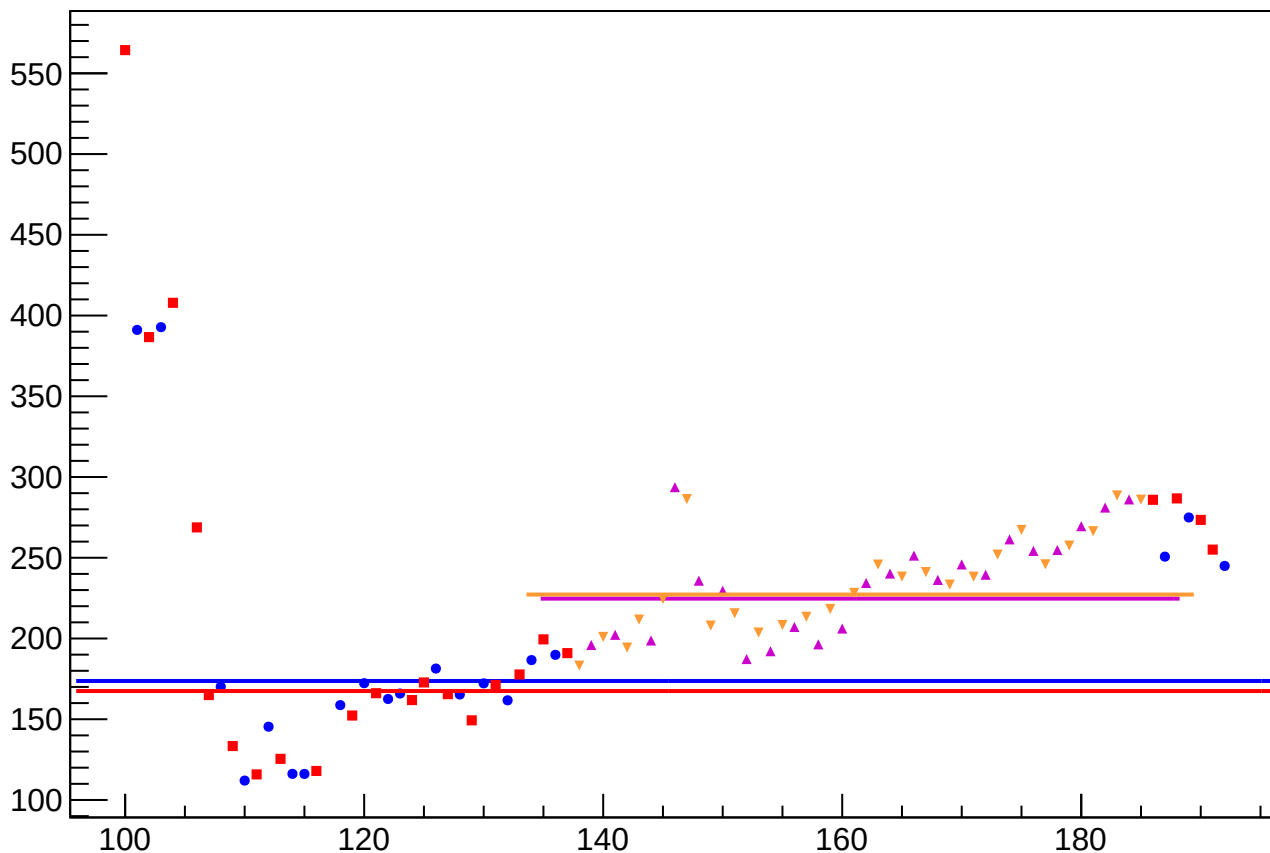
Out: 140548.419 $\pm$ 0.040

χ^2 /NDF: 1247434787.7/4

All: 140520.215 $\pm$ 0.029

χ^2 /NDF: 215334452

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 173.692 $\pm$ 0.046 χ^2 /NDF: 1408825.2/19

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF: 484955.3/24

Right Out: 167.465 $\pm$ 0.043 χ^2 /NDF: 1886465.0/22

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

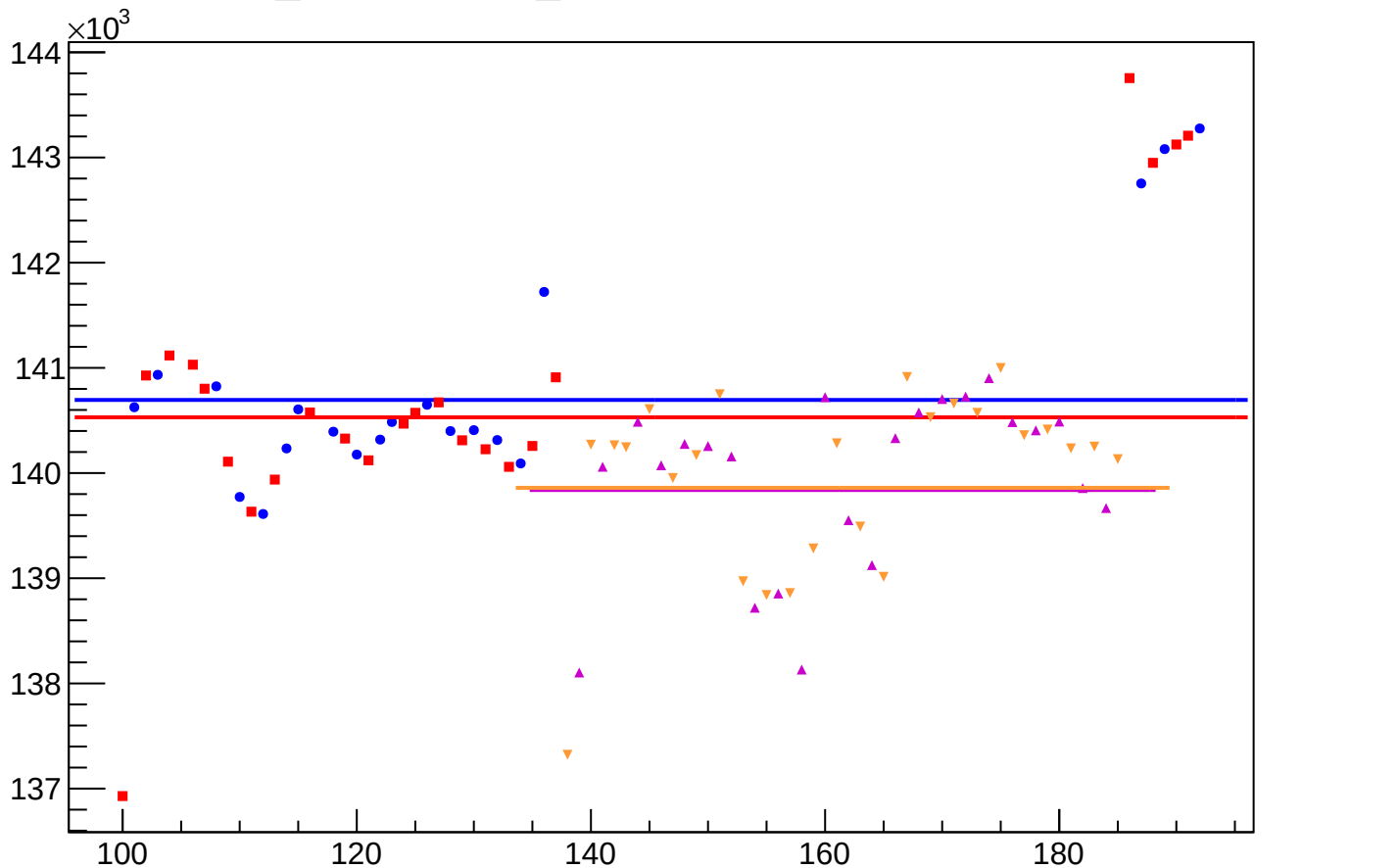
Right: 170.371 $\pm$ 0.031 χ^2 /NDF: 3305238.2/42

In: 203.248 $\pm$ 0.030 χ^2 /NDF: 2712225.4/42

Out: 200.800 $\pm$ 0.028 χ^2 /NDF: 3466617.7/47

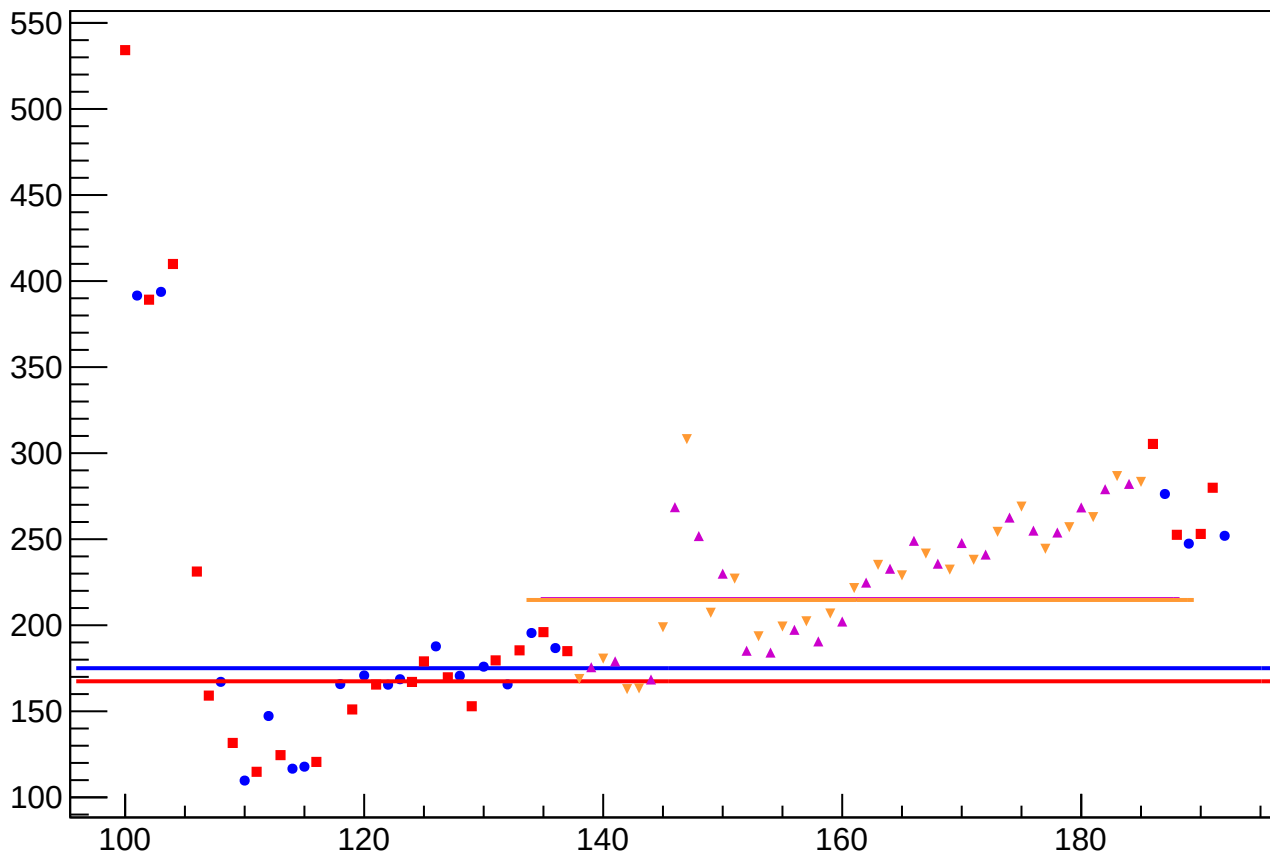
All: 201.973 $\pm$ 0.020 χ^2 /NDF: 6182413.3/90

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140694.901 $\pm$ 0.065 χ^2 /NDF: 234076149.3/19
 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: 140606.148 $\pm$ 0.044 χ^2 /NDF: 475250216.1/47
 In: 140179.420 $\pm$ 0.041 χ^2 /NDF: 618286809.4/42
 Right Out: 140530.136 $\pm$ 0.060 χ^2 /NDF: 237706999.5/22
 Out: 140140.973 $\pm$ 0.039 χ^2 /NDF: 640052899.3/47
 Left In: 139838.724 $\pm$ 0.053 χ^2 /NDF: 279573689.3/22
 All: 140159.216 $\pm$ 0.028 χ^2 /NDF: 125880250

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 175.050 $\pm$ 0.046 χ^2 /NDF: 1403218.5/19

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 167.436 $\pm$ 0.042 χ^2 /NDF: 1789006.8/22

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

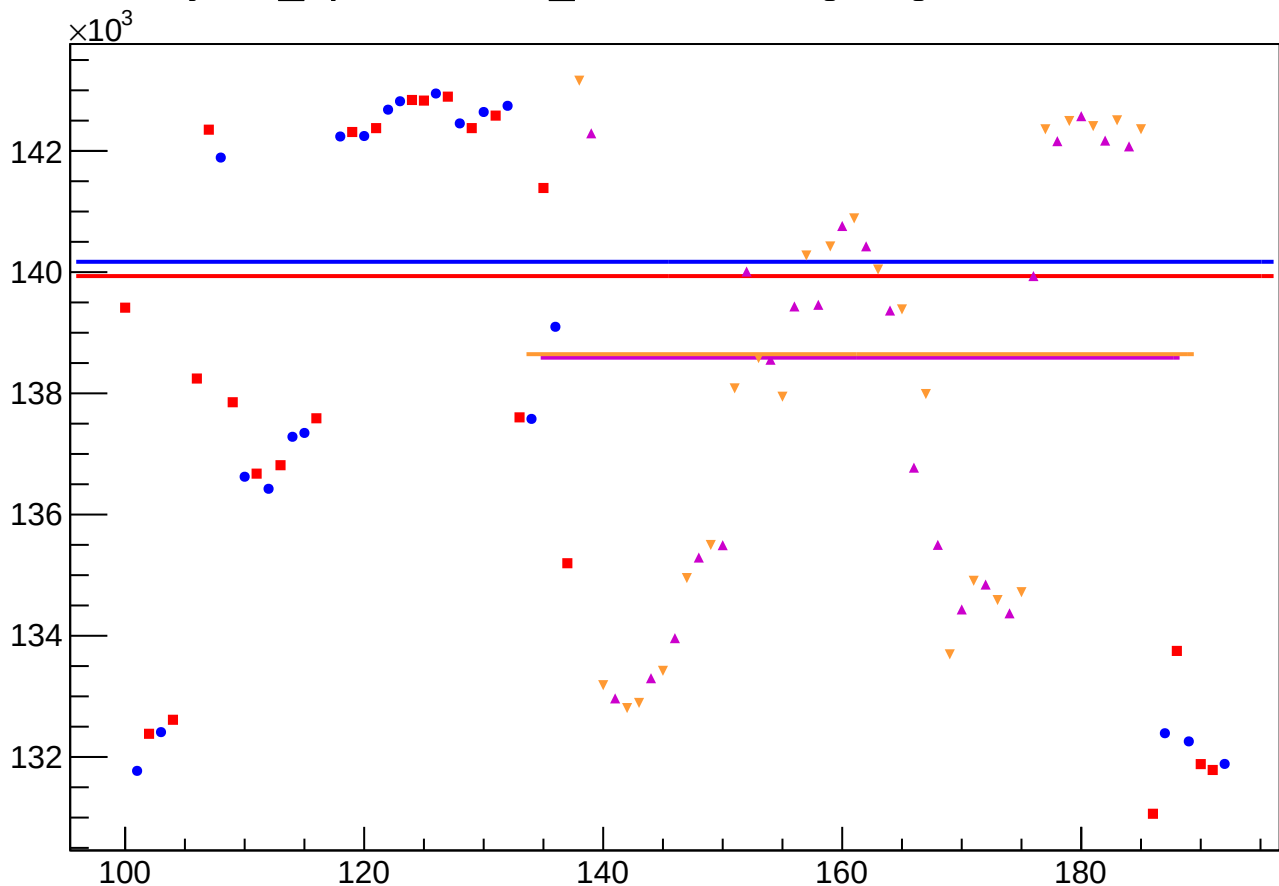
Right: 170.948 $\pm$ 0.031 χ^2 /NDF: 3207034.7/42

In: 199.236 $\pm$ 0.029 χ^2 /NDF: 2745874.8/42

Out: 194.866 $\pm$ 0.028 χ^2 /NDF: 3487822.5/47

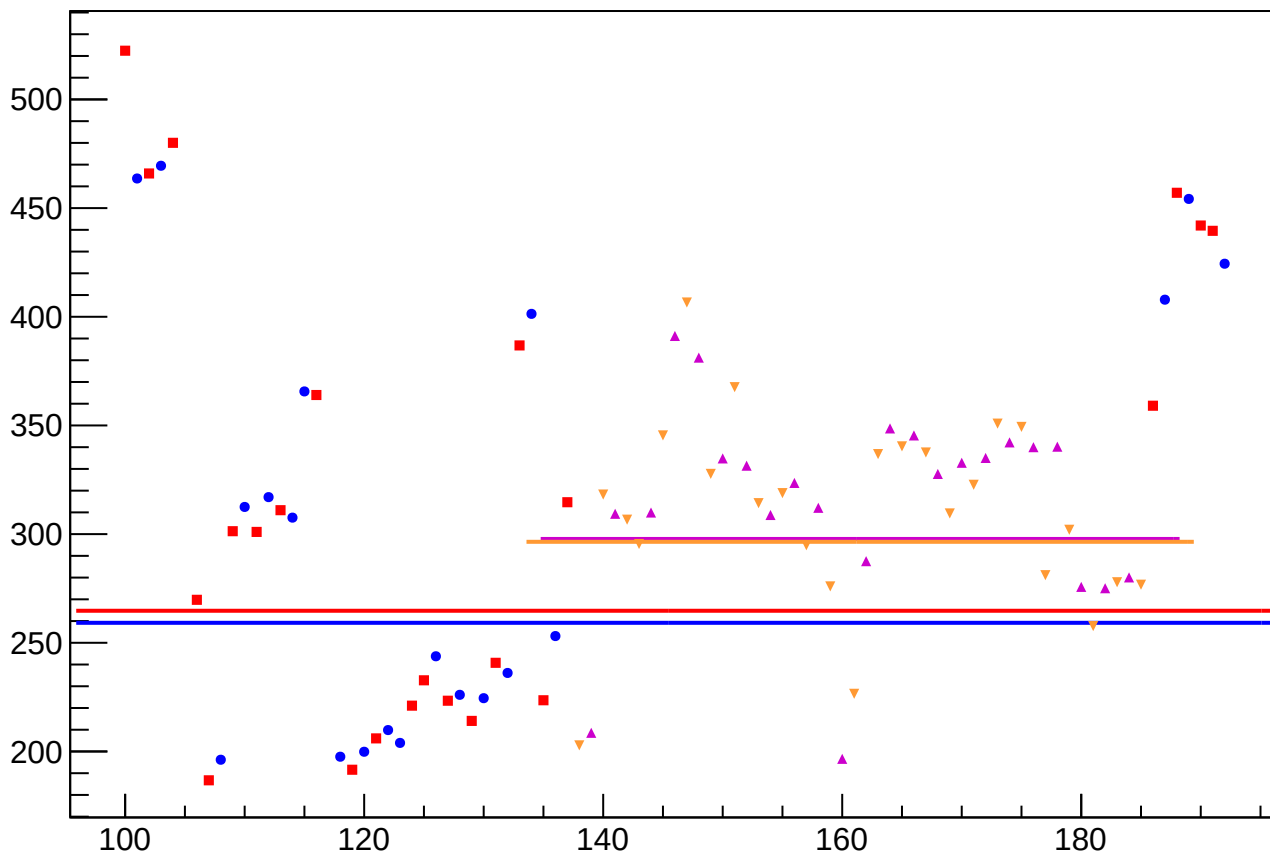
All: 196.940 $\pm$ 0.020 χ^2 /NDF: 6245655.5/90

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140170.839+/-0.096	χ^2/NDF : 1405037986.4/19	Left: 138618.660+/-0.051	χ^2/NDF : 4497021019.3/4
Left Out: 138646.366+/-0.071	χ^2/NDF : 2548637600.4/24	Right: 140050.724+/-0.067	χ^2/NDF : 2889040192.5/4
Right Out: 139934.940+/-0.095	χ^2/NDF : 1480947221.7/22	In: 139172.667+/-0.059	χ^2/NDF : 3523369875.3/42
Left In: 138588.711+/-0.074	χ^2/NDF : 1948065195.1/22	Out: 139109.701+/-0.057	χ^2/NDF : 4148522865.0/4
		All: 139140.195+/-0.041	χ^2/NDF : 767249000.0/4

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 259.193 $\pm$ 0.068 χ^2 /NDF: 1393472.4/19

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF:893579.7/24

Right Out: 264.739 $\pm$ 0.067 χ^2 /NDF: 1608504.5/22

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

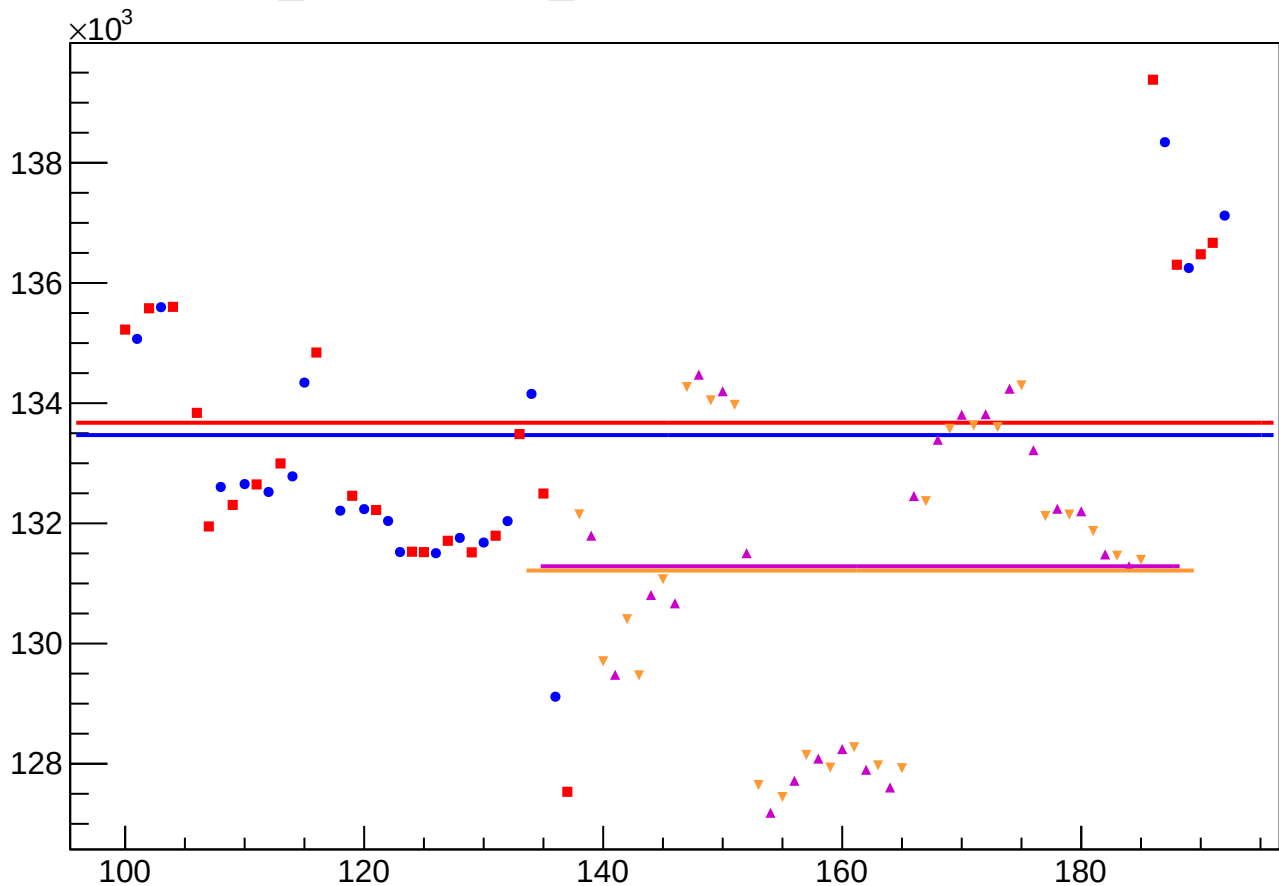
Right: 262.017 $\pm$ 0.048 χ^2 /NDF: 3005353.8/42

In: 283.534 $\pm$ 0.041 χ^2 /NDF:2657463.2/42

Out: 285.057 $\pm$ 0.040 χ^2 /NDF:2646279.3/47

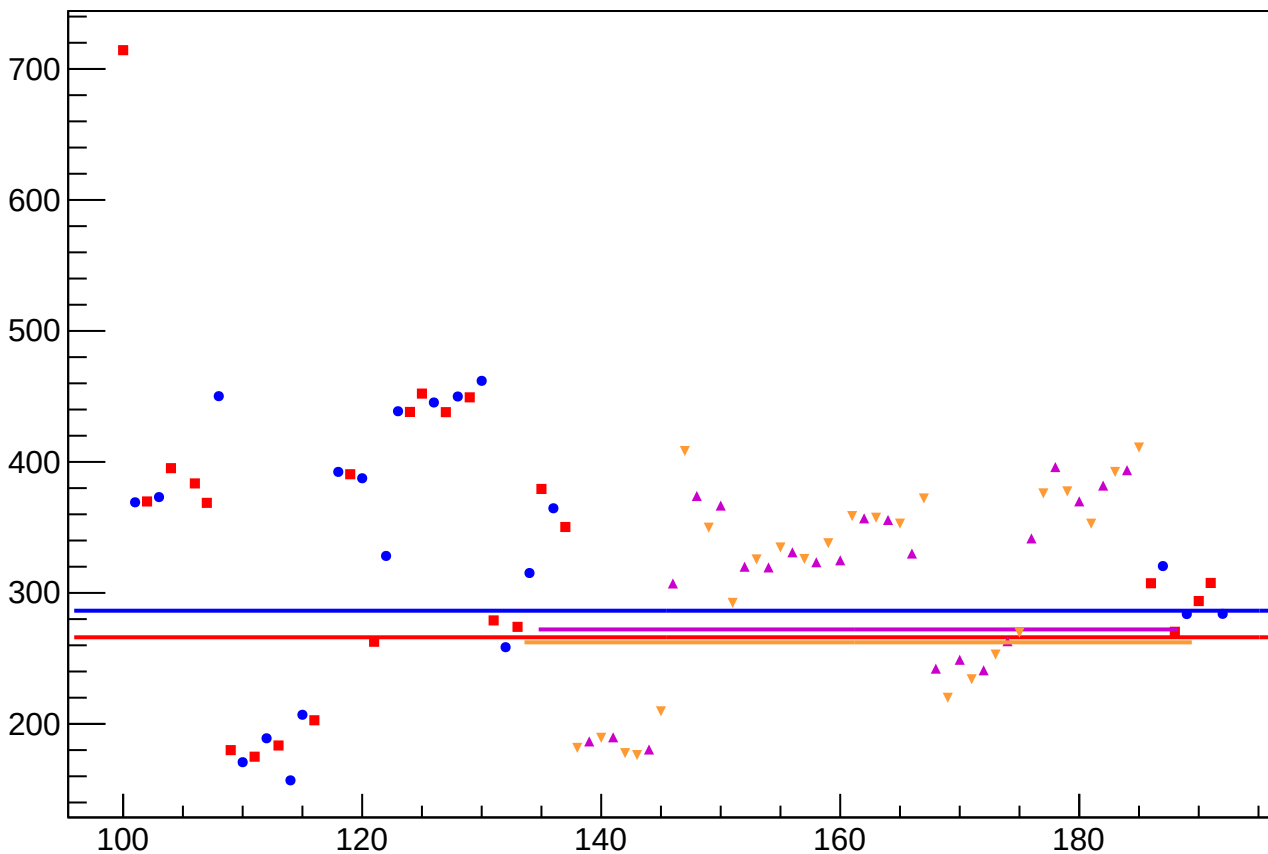
All: 284.319 $\pm$ 0.029 χ^2 /NDF: 5304441.0/90

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133469.017 $\pm$ 0.106	χ^2 /NDF: 448681047.0/19	Left: 131248.166 $\pm$ 0.047	χ^2 /NDF: 2230223308.9/4
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	Right: 133582.965 $\pm$ 0.071	χ^2 /NDF: 928174613.9/4
Right Out: 133674.794 $\pm$ 0.095	χ^2 /NDF: 477420696.7/22	In: 131923.595 $\pm$ 0.057	χ^2 /NDF: 1803207137.5/42
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 131982.770 $\pm$ 0.053	χ^2 /NDF: 2107411718.3/4
		All: 131955.394 $\pm$ 0.039	χ^2 /NDF: 391118818

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.415 $\pm$ 0.075 χ^2 /NDF: 1517502.8/19

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF:2818169.1/24

Right Out: 266.123 $\pm$ 0.068 χ^2 /NDF: 1647865.9/22

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF:2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

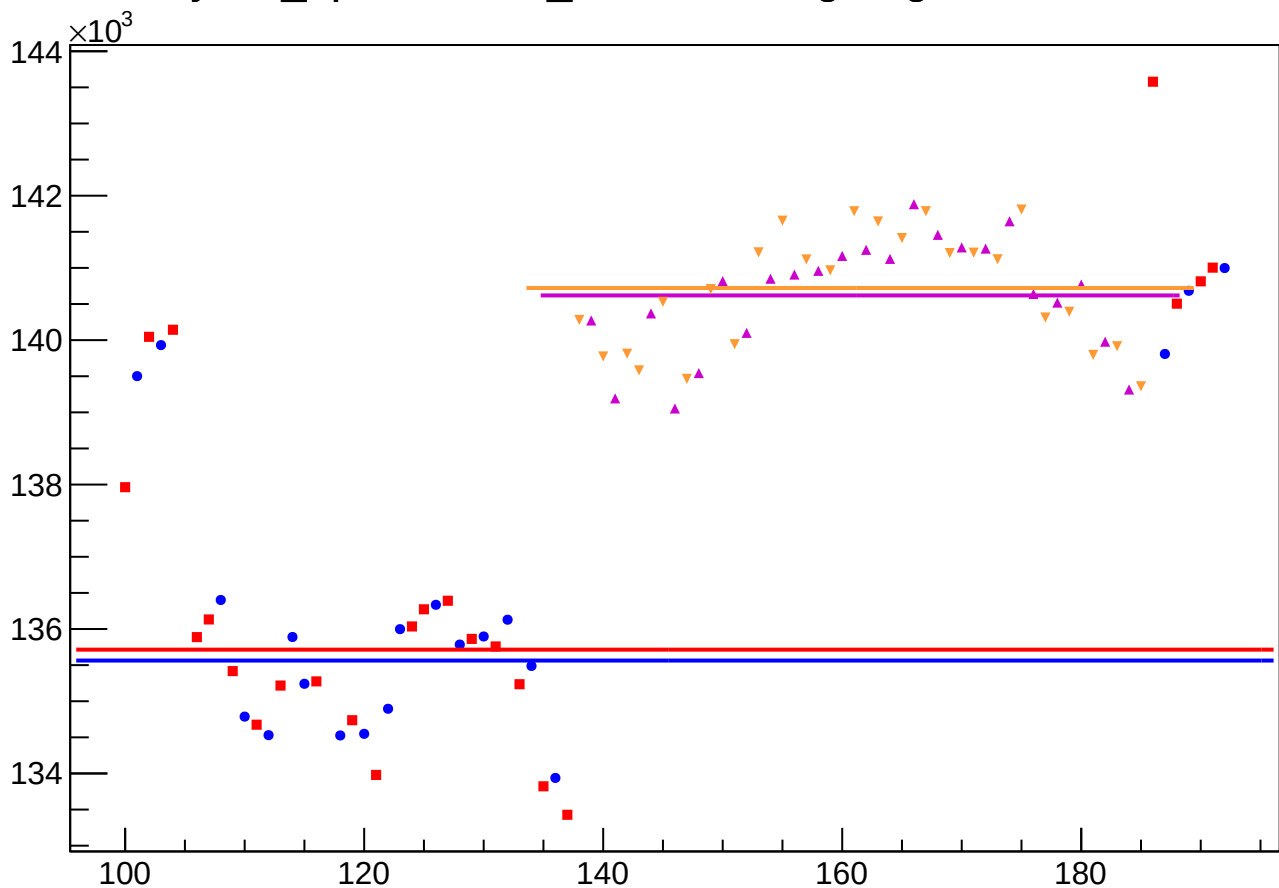
Right: 275.178 $\pm$ 0.050 χ^2 /NDF: 3205685.1/42

In: 276.293 $\pm$ 0.041 χ^2 /NDF:3765019.9/42

Out: 263.465 $\pm$ 0.038 χ^2 /NDF:4468287.0/47

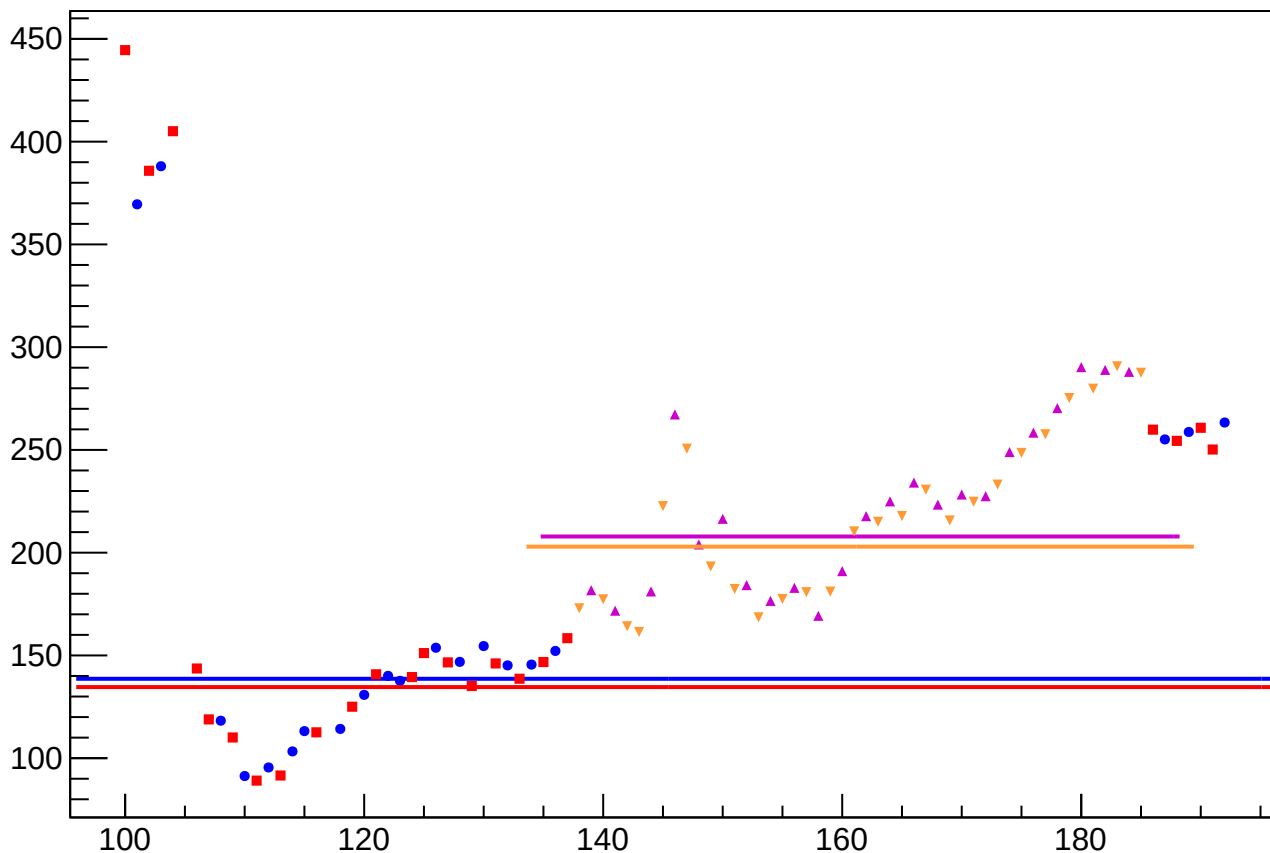
All: 269.400 $\pm$ 0.028 χ^2 /NDF: 8286814.3/90

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135563.411+/-0.053	χ^2/NDF : 1026089884.4/19	Left: 140673.196+/-0.035	χ^2/NDF : 449761004.9/47
Left Out: 140721.823+/-0.048	χ^2/NDF : 247257762.8/24	Right: 135643.886+/-0.036	χ^2/NDF : 2357059561.1/4
Right Out: 135714.471+/-0.049	χ^2/NDF : 1326593190.9/22	In: 138170.037+/-0.037	χ^2/NDF : 5970728131.0/42
Left In: 140619.038+/-0.051	χ^2/NDF : 200370178.0/22	Out: 138266.919+/-0.035	χ^2/NDF : 6819924497.8/4
		All: 138221.360+/-0.025	χ^2/NDF : 127943479

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.634+/-0.037 χ^2/NDF : 2092147.6/19

Left Out: 202.934+/-0.034 χ^2/NDF :1052283.6/24

Right Out: 134.597+/-0.035 χ^2/NDF : 2332981.2/22

Left In: 207.872+/-0.036 χ^2/NDF :949200.3/22

Left: 205.270+/-0.025 χ^2/NDF : 2011329.4/47

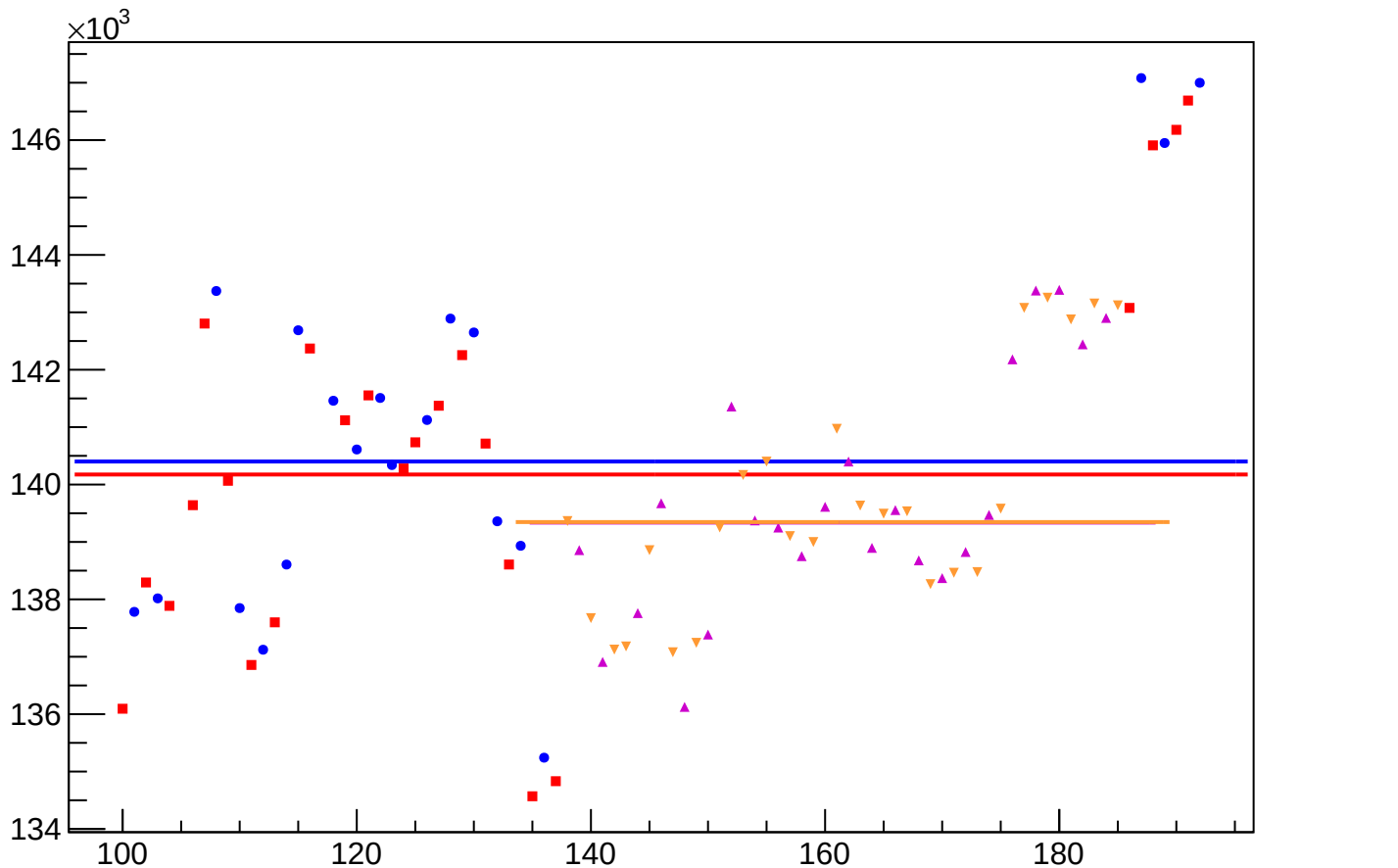
Right: 136.484+/-0.025 χ^2/NDF : 4431379.4/42

In: 174.332+/-0.026 χ^2/NDF :4820996.2/42

Out: 169.431+/-0.024 χ^2/NDF :5339401.5/47

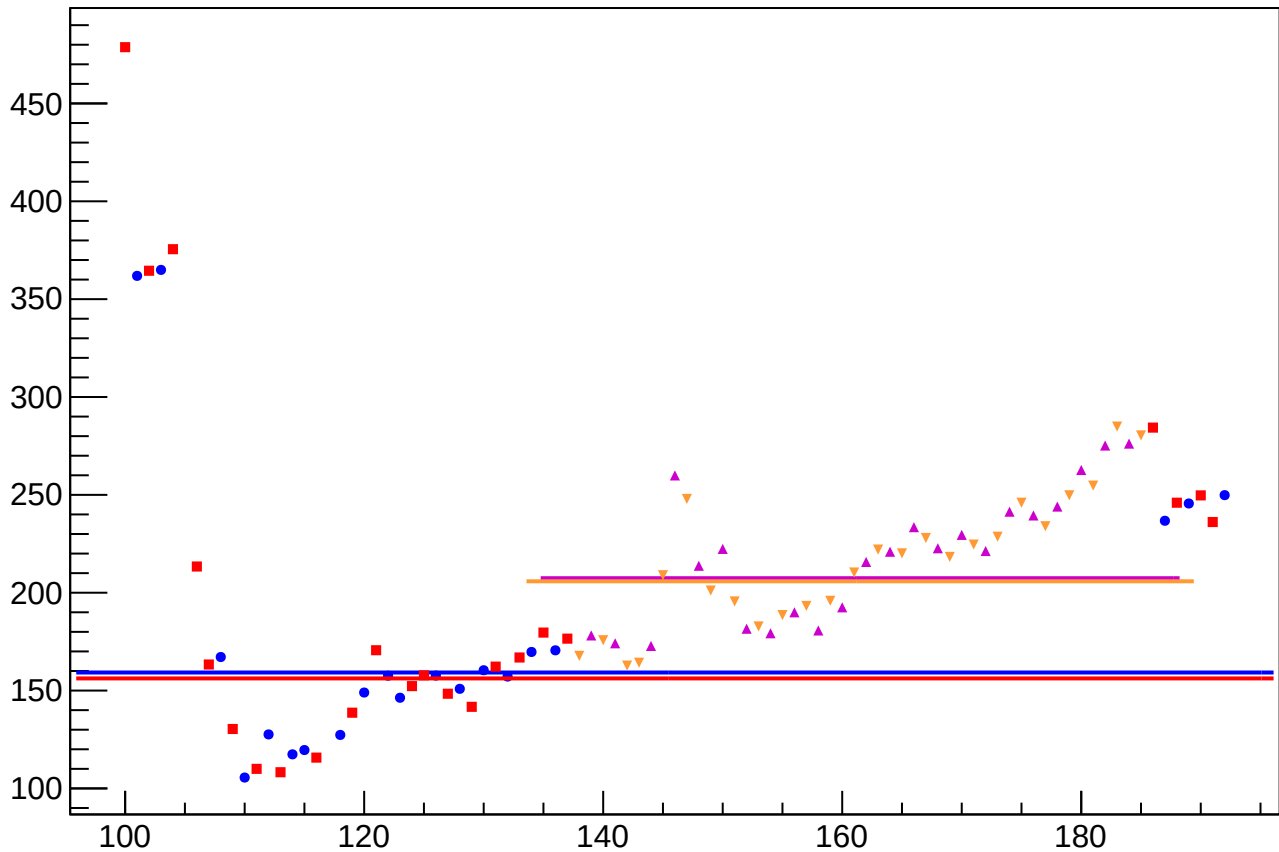
All: 171.736+/-0.018 χ^2/NDF : 10179311.5/90

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140401.112 $\pm$ 0.059	χ^2/NDF : 2753363209.6/19	Left: 139342.403 $\pm$ 0.035	χ^2/NDF : 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2/NDF : 1271172976.7/24	Right: 140282.108 $\pm$ 0.041	χ^2/NDF : 5257270728.1/4
Right Out: 140174.847 $\pm$ 0.056	χ^2/NDF : 2496242360.1/22	In: 139788.560 $\pm$ 0.039	χ^2/NDF : 4231769194.5/42
Left In: 139337.874 $\pm$ 0.051	χ^2/NDF : 1293003954.9/22	Out: 139703.518 $\pm$ 0.037	χ^2/NDF : 3890710946.7/4
		All: 139744.182 $\pm$ 0.027	χ^2/NDF : 812501469.9/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 159.228+/-0.042 χ^2/NDF : 1474327.9/19

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 156.207+/-0.040 χ^2/NDF : 1794476.7/22

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

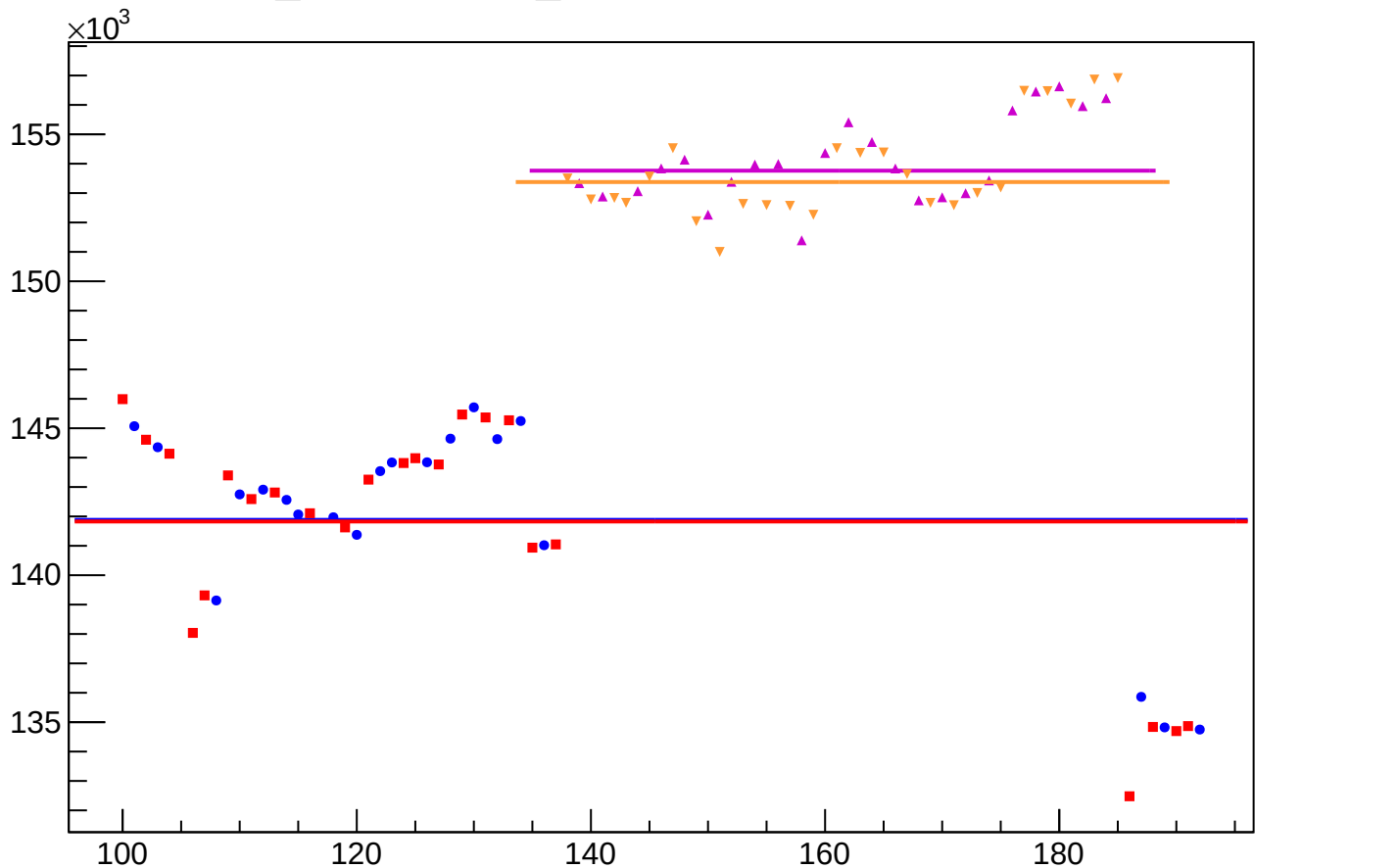
Right: 157.639+/-0.029 χ^2/NDF : 3271537.7/42

In: 186.990+/-0.027 χ^2/NDF : 2937955.6/42

Out: 184.447+/-0.026 χ^2/NDF : 3418426.6/47

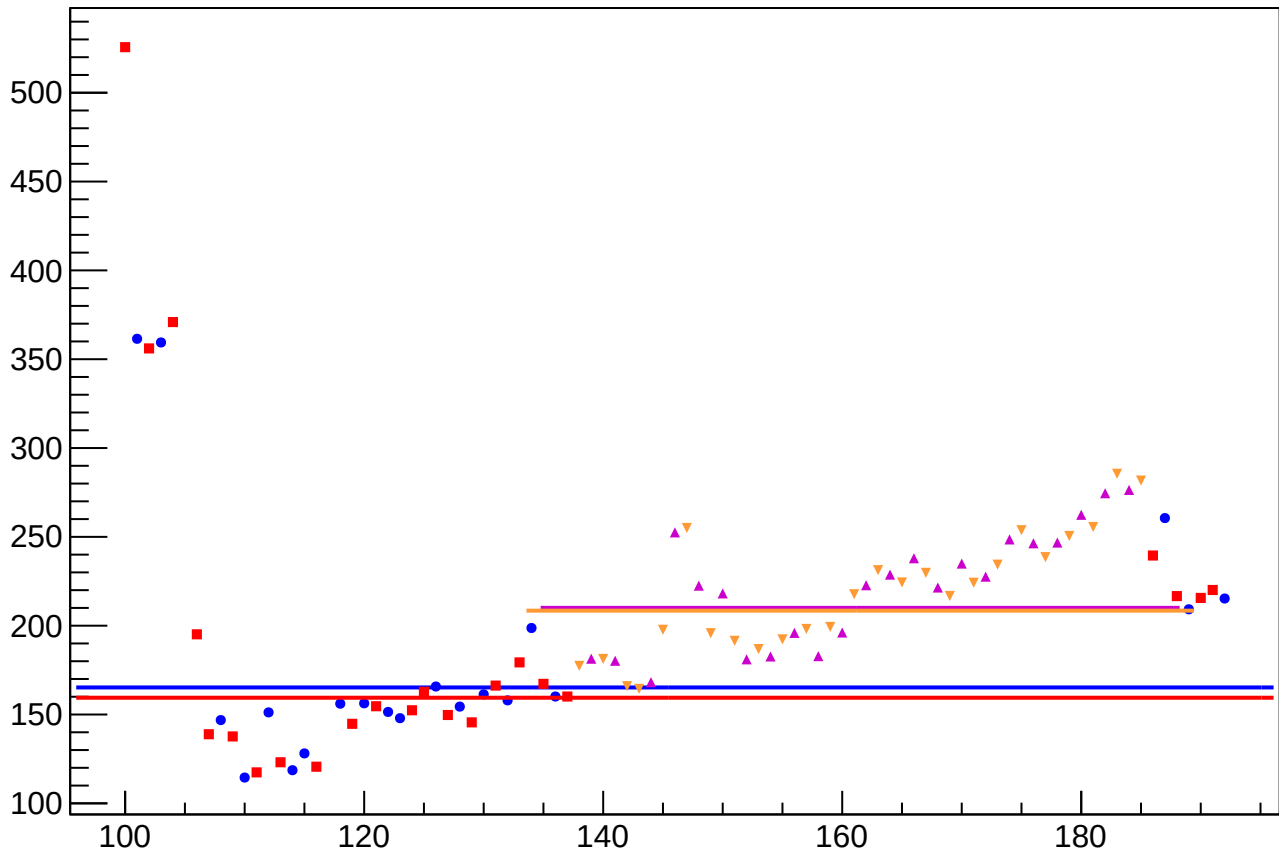
All: 185.663+/-0.019 χ^2/NDF : 6360913.6/90

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141882.674 $\pm$ 0.061	χ^2 /NDF: 2575546609.3/19	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: 141853.271 $\pm$ 0.041	χ^2 /NDF: 5816959043.4/4
Right Out: 141827.714 $\pm$ 0.057	χ^2 /NDF: 3240974651.4/22	In: 148801.365 $\pm$ 0.039	χ^2 /NDF: 25478021841.7/4
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 148371.794 $\pm$ 0.037	χ^2 /NDF: 27600813288.2/4
		All: 148575.515 $\pm$ 0.027	χ^2 /NDF: 53141775.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 165.234+/-0.043 χ^2/NDF : 1087033.3/19

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 159.451+/-0.040 χ^2/NDF : 1329877.7/22

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

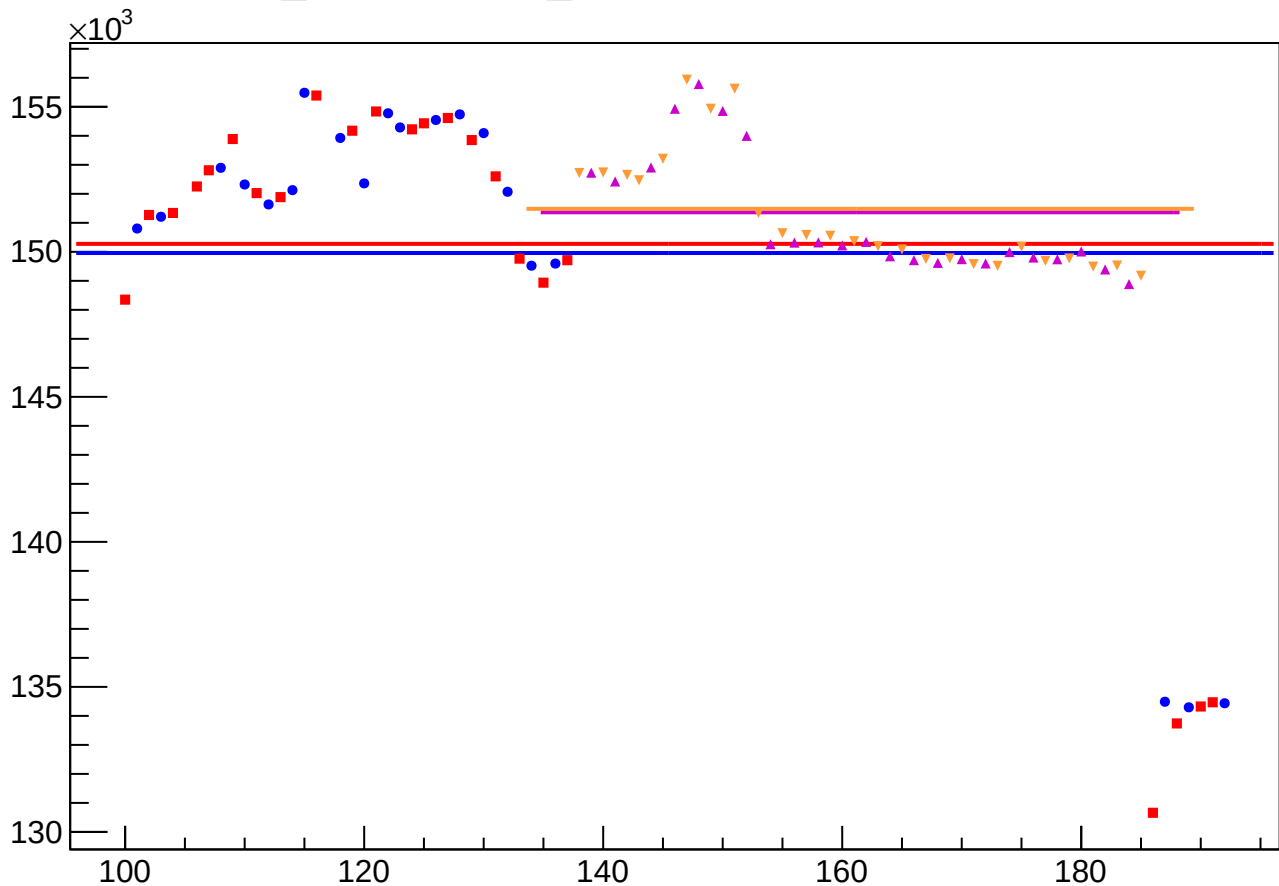
Right: 162.140+/-0.029 χ^2/NDF : 2426605.0/42

In: 191.327+/-0.028 χ^2/NDF : 2422864.5/42

Out: 187.225+/-0.026 χ^2/NDF : 2899371.9/47

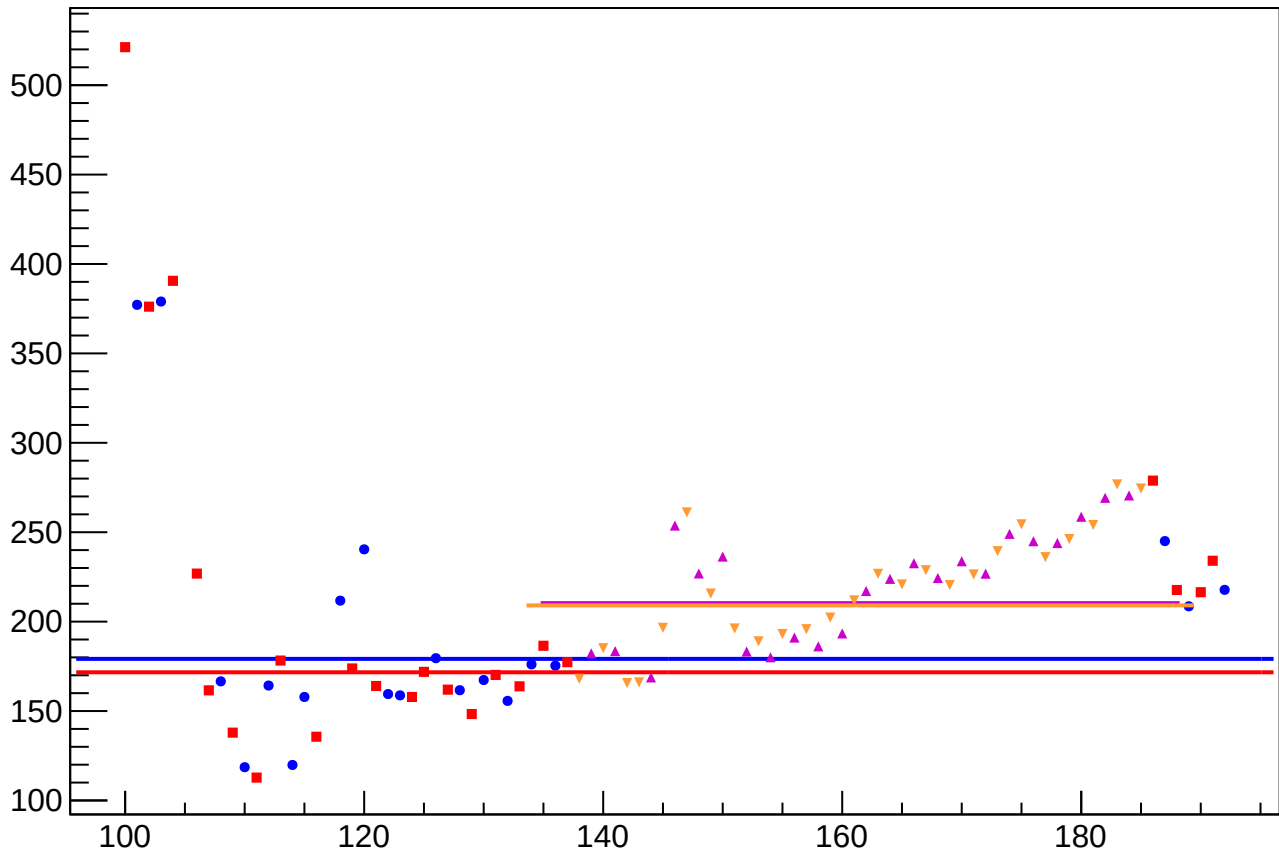
All: 189.170+/-0.019 χ^2/NDF : 5333719.1/90

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 149959.670 $\pm$ 0.067	χ^2 /NDF: 9838992169.2/19	Left: 151425.512 $\pm$ 0.036	χ^2 /NDF: 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2 /NDF: 1481910066.9/24	Right: 150129.969 $\pm$ 0.045	χ^2 /NDF: 22031166011.3/4
Right Out: 150274.921 $\pm$ 0.062	χ^2 /NDF: 12180148757.4/22	In: 150841.383 $\pm$ 0.041	χ^2 /NDF: 11537830301.3/4
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: 151009.382 $\pm$ 0.039	χ^2 /NDF: 13895625130.7/4
		All: 150929.897 $\pm$ 0.028	χ^2 /NDF: 254424143.0/4

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 179.170 $\pm$ 0.047 χ^2 /NDF: 1057917.3/19

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 171.672 $\pm$ 0.044 χ^2 /NDF: 1322447.8/22

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

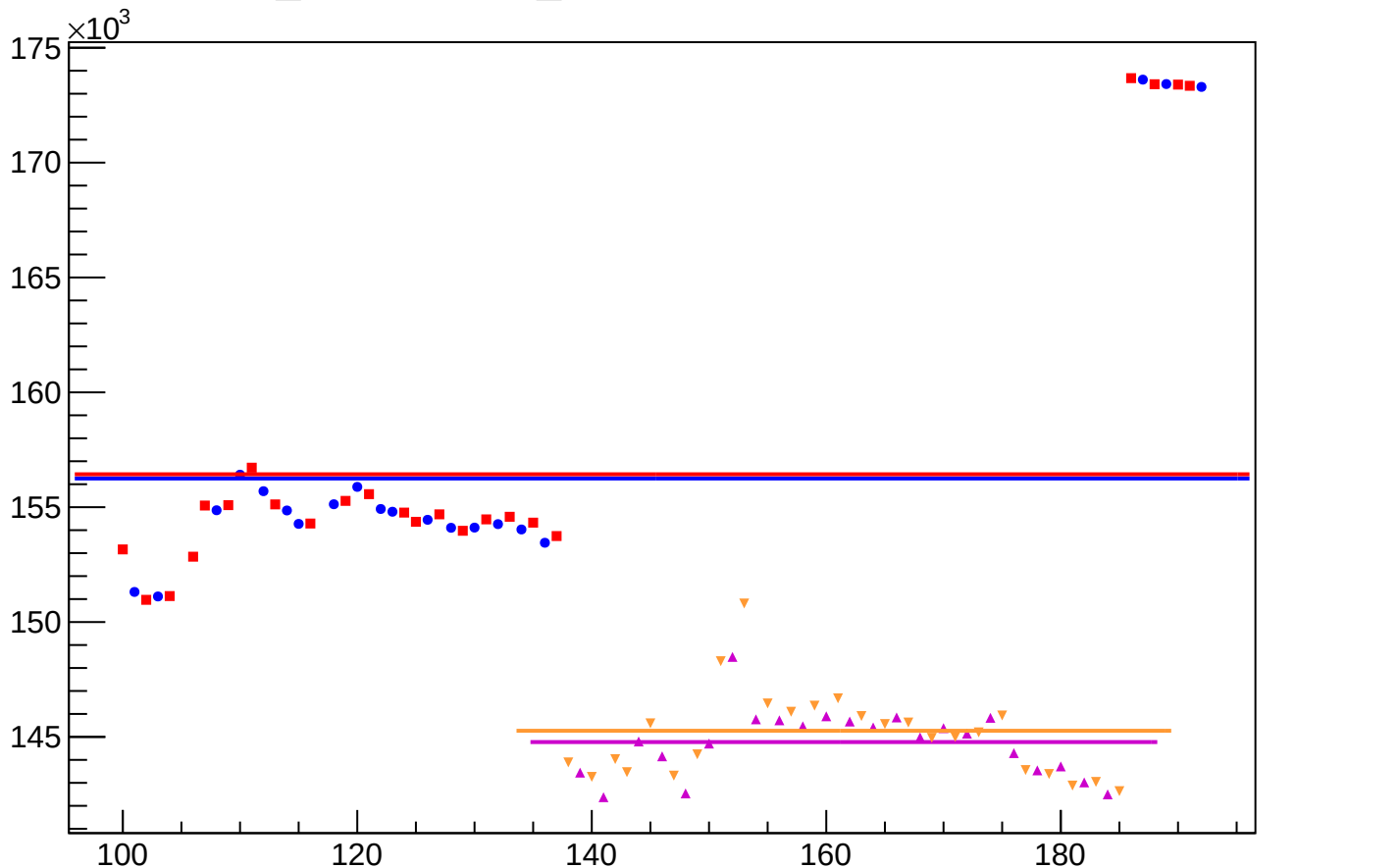
Right: 175.120 $\pm$ 0.032 χ^2 /NDF: 2393968.5/42

In: 198.755 $\pm$ 0.029 χ^2 /NDF: 2009173.9/42

Out: 194.405 $\pm$ 0.027 χ^2 /NDF: 2478213.1/47

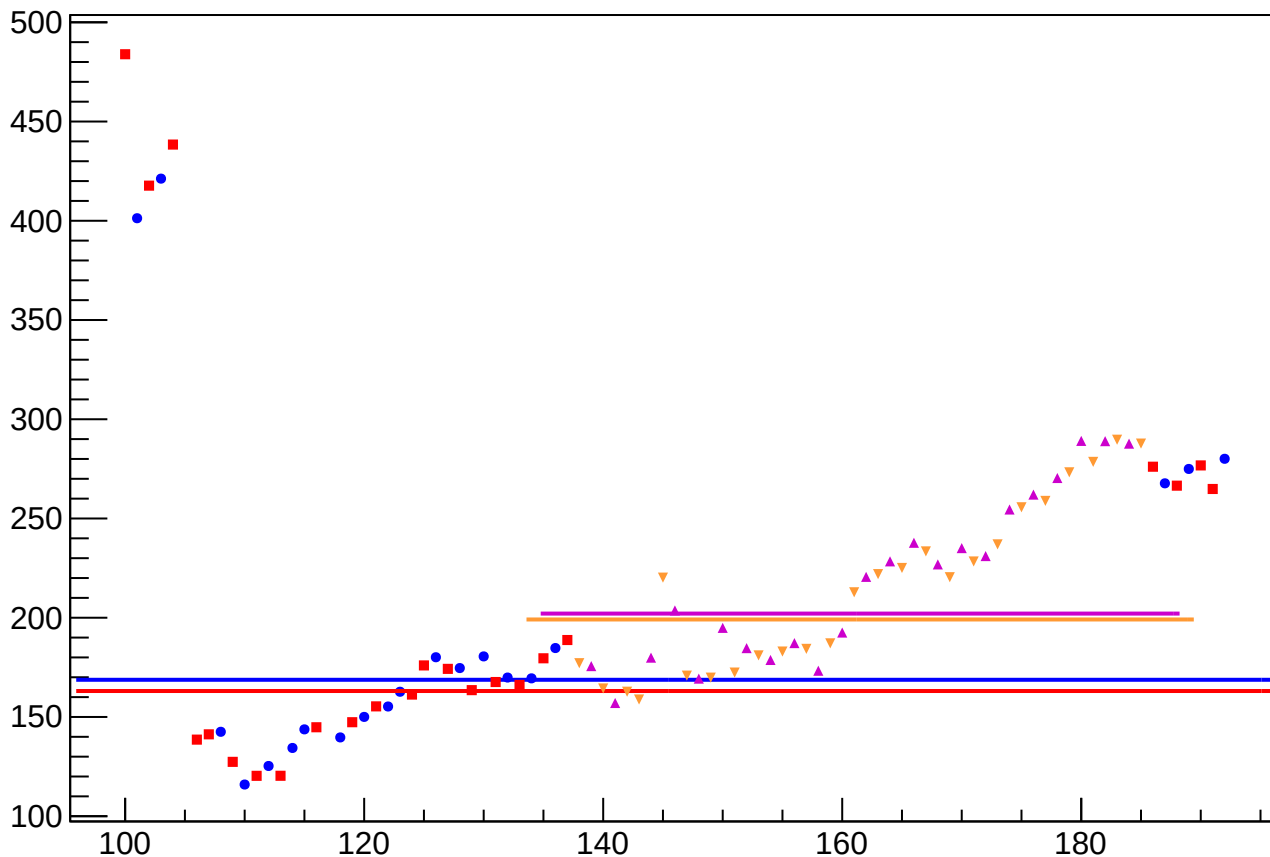
All: 196.463 $\pm$ 0.020 χ^2 /NDF: 4499399.5/90

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 156249.468 $\pm$ 0.063	χ^2 /NDF: 6614599531.0/19	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/4
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 156348.238 $\pm$ 0.043	χ^2 /NDF: 15003035526.3/19
Right Out: 156432.984 $\pm$ 0.058	χ^2 /NDF: 8383845897.8/22	In: 149175.738 $\pm$ 0.039	χ^2 /NDF: 28085034601.5/4
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 149718.183 $\pm$ 0.037	χ^2 /NDF: 32230972070.7/19
		All: 149462.446 $\pm$ 0.027	χ^2 /NDF: 604187098.0/19

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 168.734 $\pm$ 0.044 χ^2 /NDF: 1641571.1/19

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 163.077 $\pm$ 0.041 χ^2 /NDF: 1809272.6/22

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

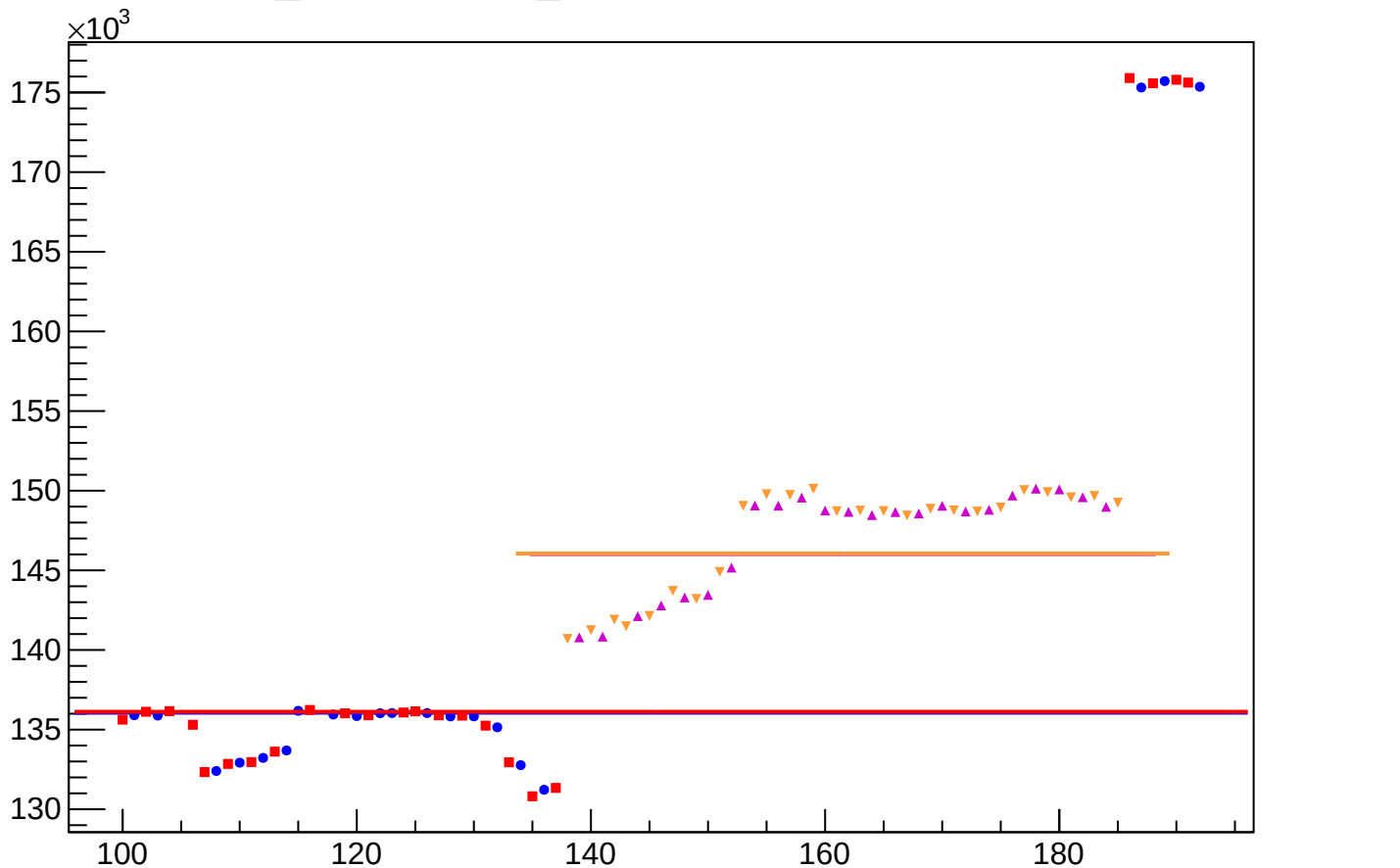
Right: 165.689 $\pm$ 0.030 χ^2 /NDF: 3459569.8/42

In: 189.299 $\pm$ 0.028 χ^2 /NDF:3046815.9/42

Out: 184.750 $\pm$ 0.026 χ^2 /NDF:3422598.0/47

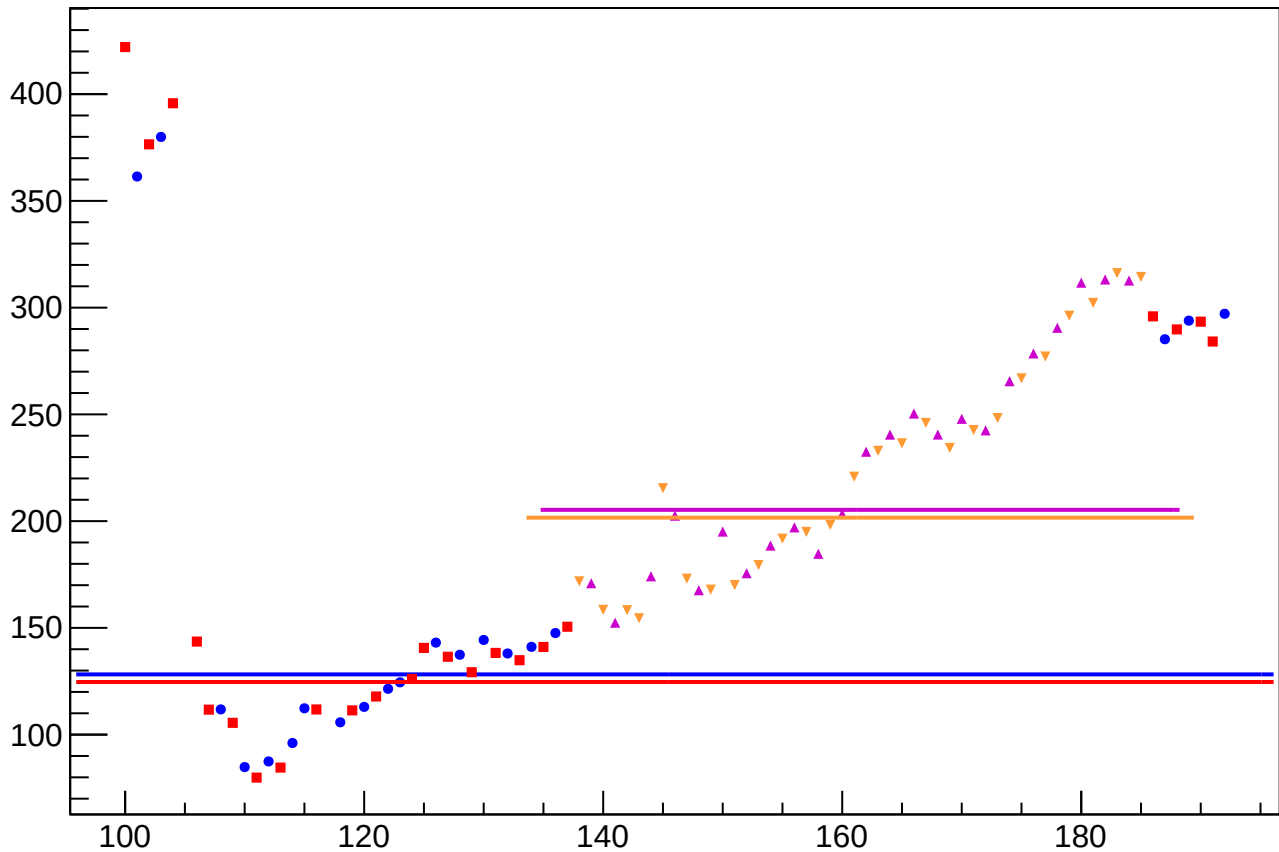
All: 186.895 $\pm$ 0.019 χ^2 /NDF: 6483861.4/90

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 136062.394 $\pm$ 0.049	χ^2/NDF : 29763326092.7/19	Left: 146036.626 $\pm$ 0.035	χ^2/NDF : 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2/NDF : 5403300123.1/24	Right: 136092.543 $\pm$ 0.034	χ^2/NDF : 67094467458.5
Right Out: 136119.099 $\pm$ 0.046	χ^2/NDF : 37330438130.6/22	In: 140906.993 $\pm$ 0.035	χ^2/NDF : 54198725385.3/4
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 140872.292 $\pm$ 0.033	χ^2/NDF : 64782153738.0
		All: 140888.676 $\pm$ 0.024	χ^2/NDF : 118981388

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 128.218 $\pm$ 0.035 χ^2/NDF : 2489223.2/19

Left Out: 201.632 $\pm$ 0.034 χ^2/NDF :1589564.0/24

Right Out: 124.661 $\pm$ 0.033 χ^2/NDF : 2810352.5/22

Left In: 205.286 $\pm$ 0.036 χ^2/NDF :1425292.7/22

Left: 203.372 $\pm$ 0.025 χ^2/NDF : 3020309.5/47

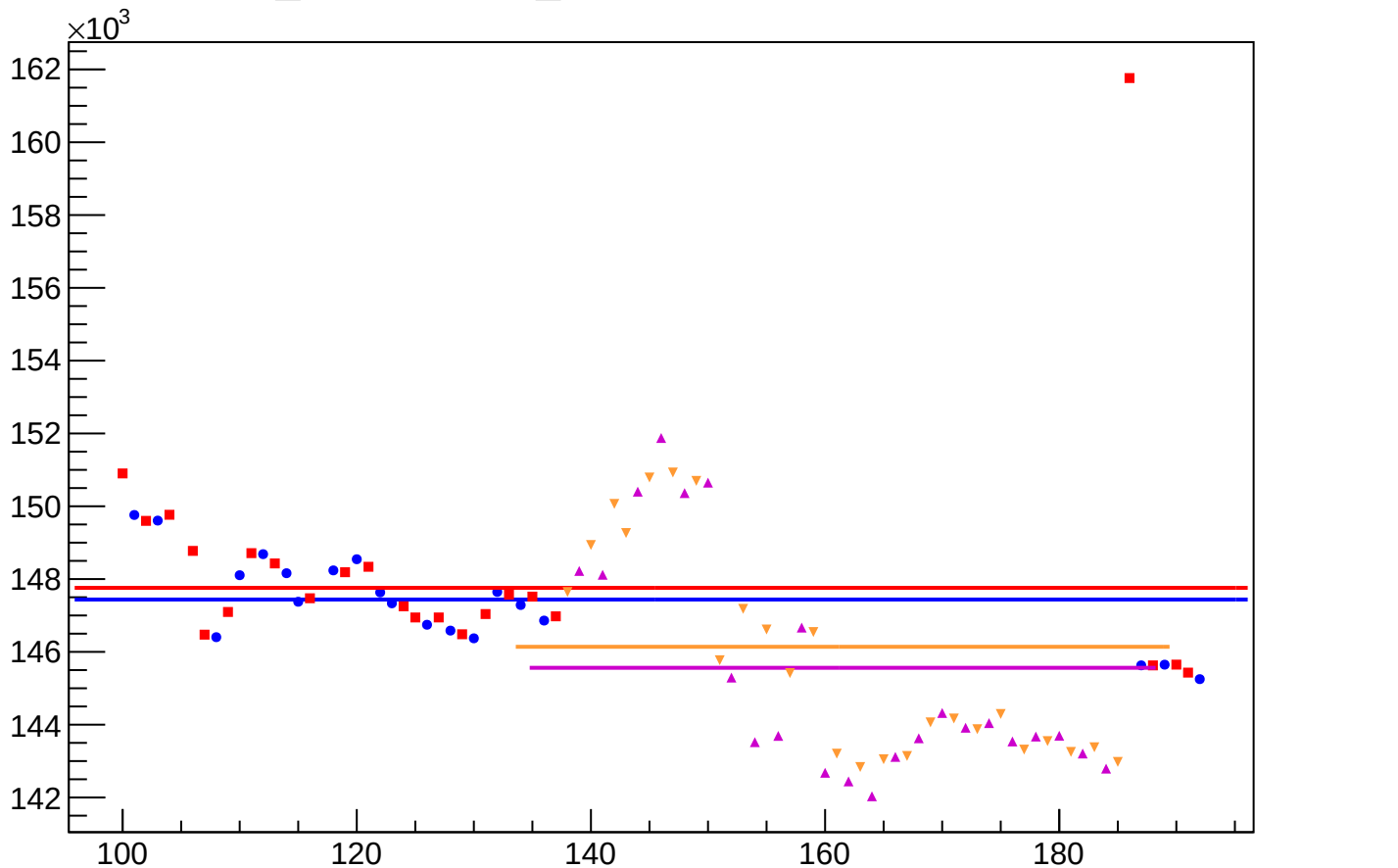
Right: 126.327 $\pm$ 0.024 χ^2/NDF : 5305109.4/42

In: 165.713 $\pm$ 0.025 χ^2/NDF :6291904.8/42

Out: 161.495 $\pm$ 0.024 χ^2/NDF :7047972.6/47

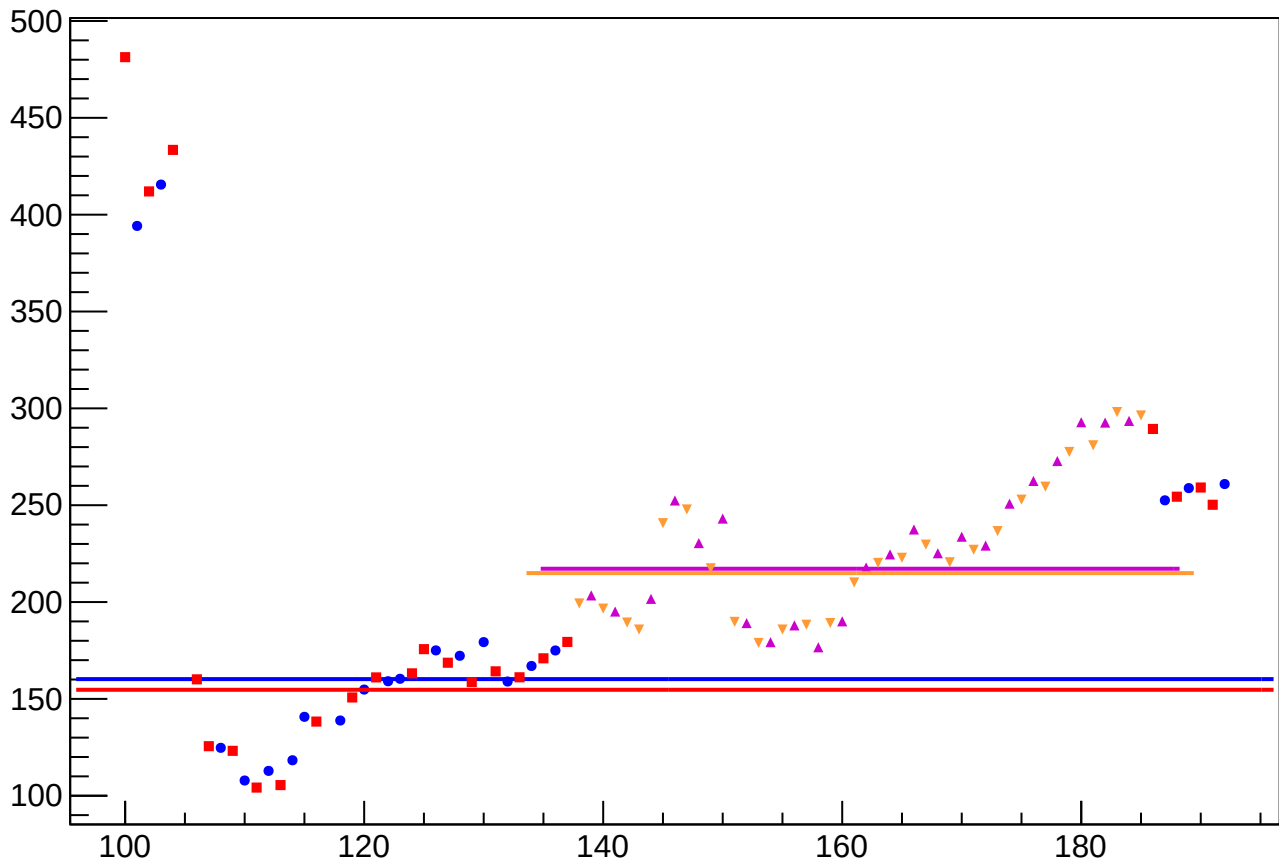
All: 163.487 $\pm$ 0.017 χ^2/NDF : 13354927.9/90

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147437.686 $\pm$ 0.060	χ^2/NDF : 301004541.0/19	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: 147609.601 $\pm$ 0.041	χ^2/NDF : 1515280430.7/1
Right Out: 147758.488 $\pm$ 0.056	χ^2/NDF : 1198938749.9/22	In: 146386.018 $\pm$ 0.040	χ^2/NDF : 3904101587.1/42
Left In: 145562.386 $\pm$ 0.053	χ^2/NDF : 3054641996.0/22	Out: 146874.718 $\pm$ 0.038	χ^2/NDF : 4357979776.1/4
		All: 146643.827 $\pm$ 0.027	χ^2/NDF : 834185700

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 160.216+/-0.042 χ^2/NDF : 1748491.1/19

Left Out: 214.945+/-0.036 χ^2/NDF : 728515.5/24

Right Out: 154.705+/-0.039 χ^2/NDF : 2048681.0/22

Left In: 217.203+/-0.038 χ^2/NDF : 764798.3/22

Left: 216.027+/-0.026 χ^2/NDF : 1495200.1/47

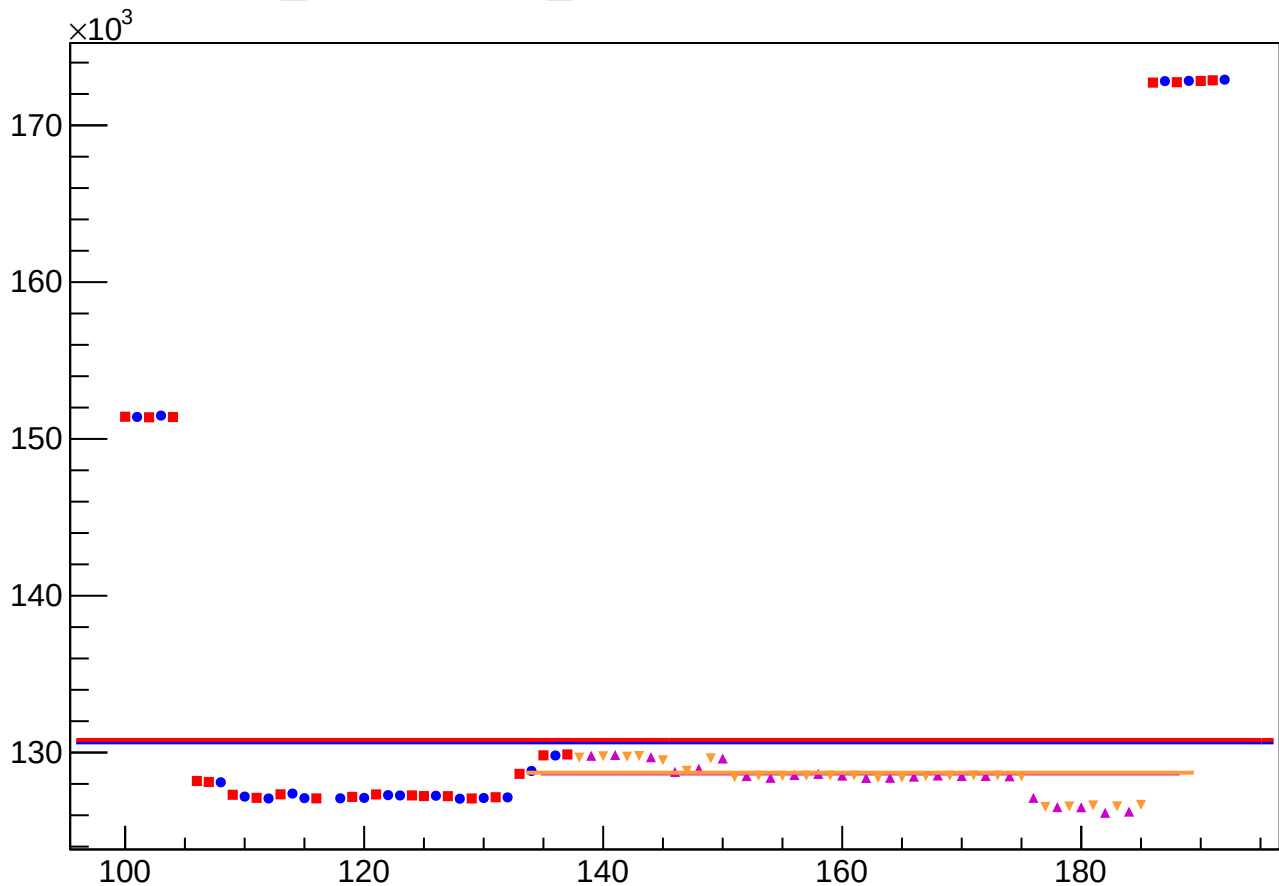
Right: 157.263+/-0.029 χ^2/NDF : 3806226.2/42

In: 192.175+/-0.028 χ^2/NDF : 3526231.8/42

Out: 187.585+/-0.027 χ^2/NDF : 4049248.5/47

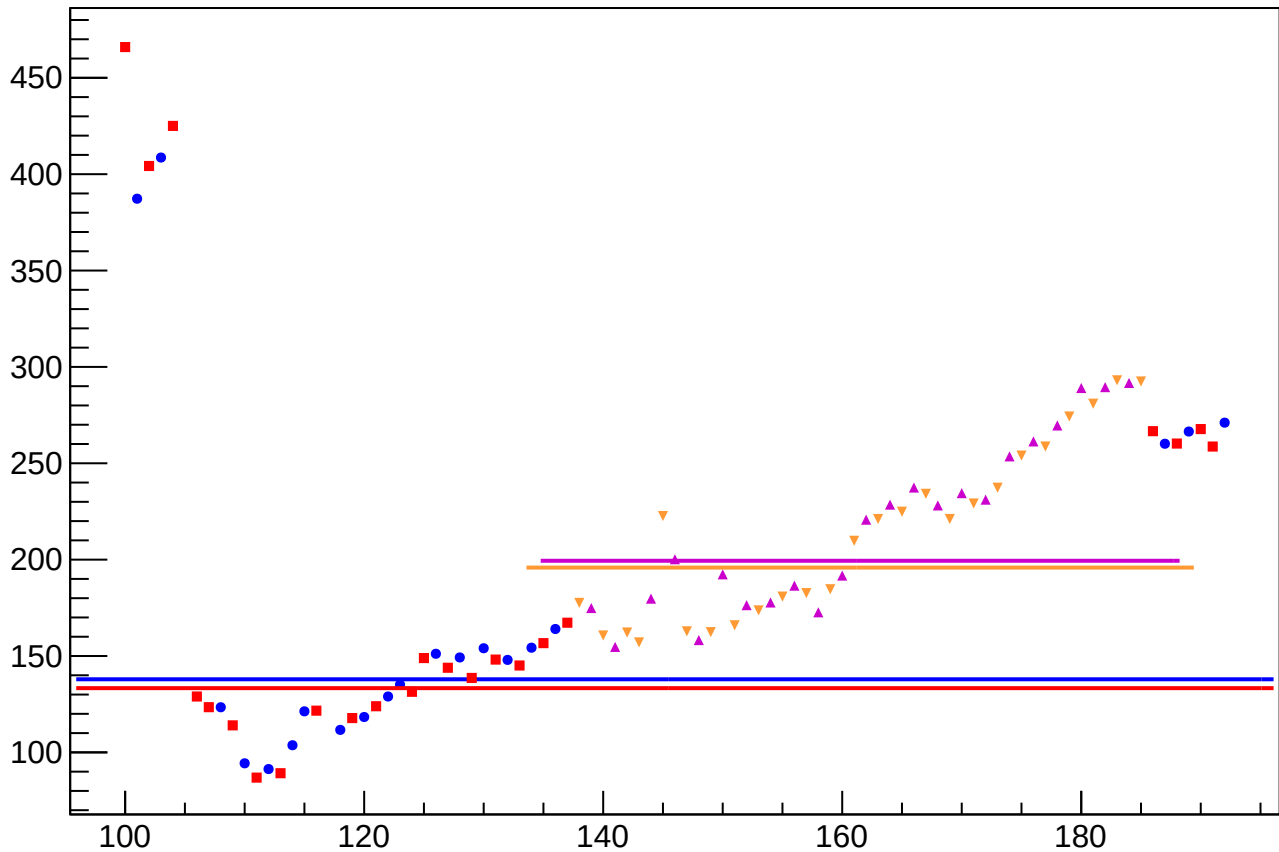
All: 189.753+/-0.019 χ^2/NDF : 7589552.5/90

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 130649.619 $\pm$ 0.053 χ^2 /NDF: 44615945813.5/19
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 130802.909 $\pm$ 0.049 χ^2 /NDF: 54496437498.9/22
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128691.898 $\pm$ 0.034 χ^2 /NDF: 681729975.4/47
 Right: 130732.070 $\pm$ 0.036 χ^2 /NDF: 99116952259.8/47
 In: 129588.092 $\pm$ 0.036 χ^2 /NDF: 45709812641.9/47
 Out: 129713.804 $\pm$ 0.034 χ^2 /NDF: 55801613353.8/47
 All: 129654.786 $\pm$ 0.025 χ^2 /NDF: 101517949.8/94

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.929 $\pm$ 0.037 χ^2 /NDF: 2254410.2/19

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 133.326 $\pm$ 0.034 χ^2 /NDF: 2489779.1/22

Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

Left: 197.564 $\pm$ 0.024 χ^2 /NDF: 2484502.8/47

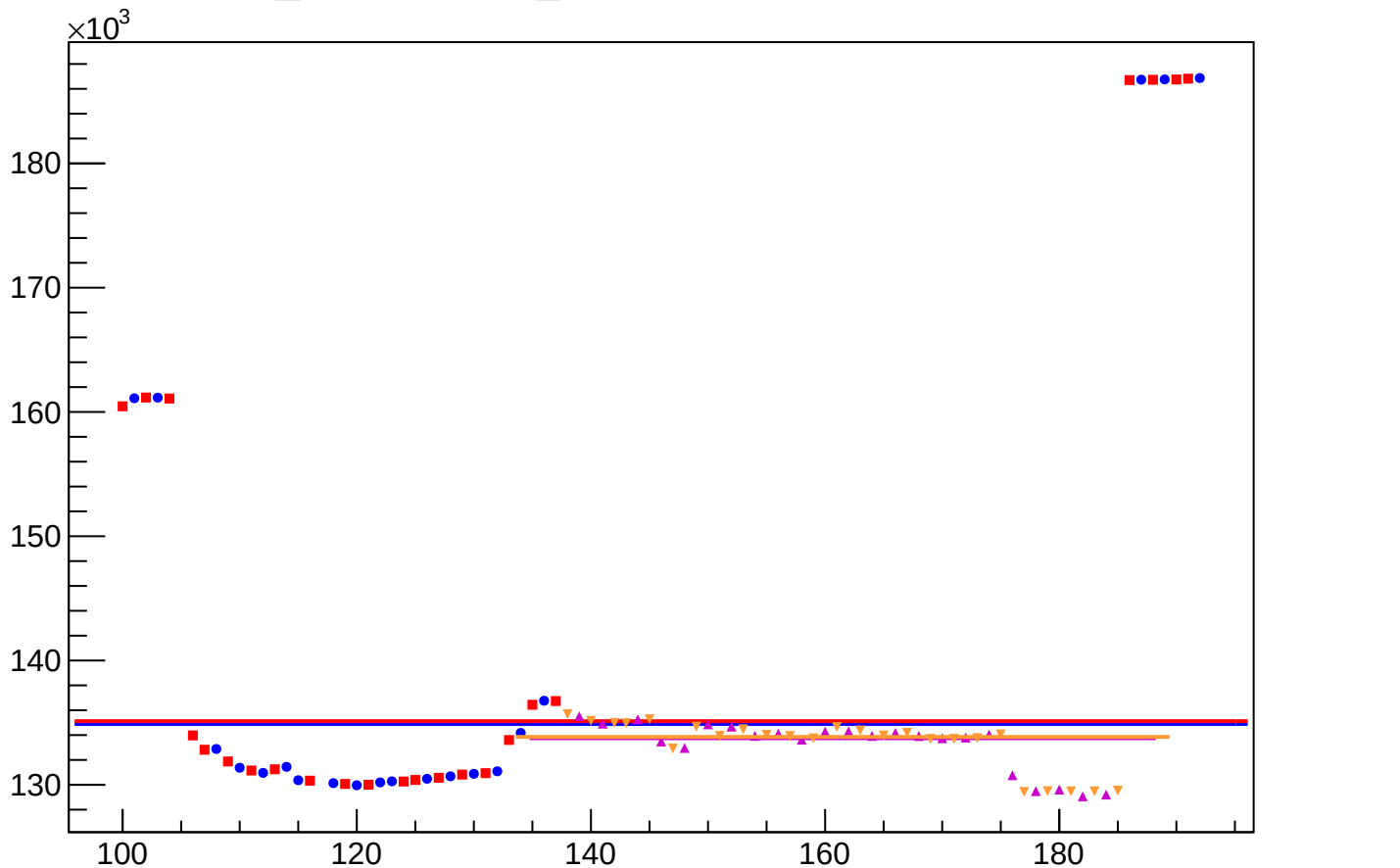
Right: 135.453 $\pm$ 0.025 χ^2 /NDF: 4752428.2/42

In: 170.849 $\pm$ 0.025 χ^2 /NDF:4883508.5/42

Out: 165.950 $\pm$ 0.024 χ^2 /NDF:5520489.4/47

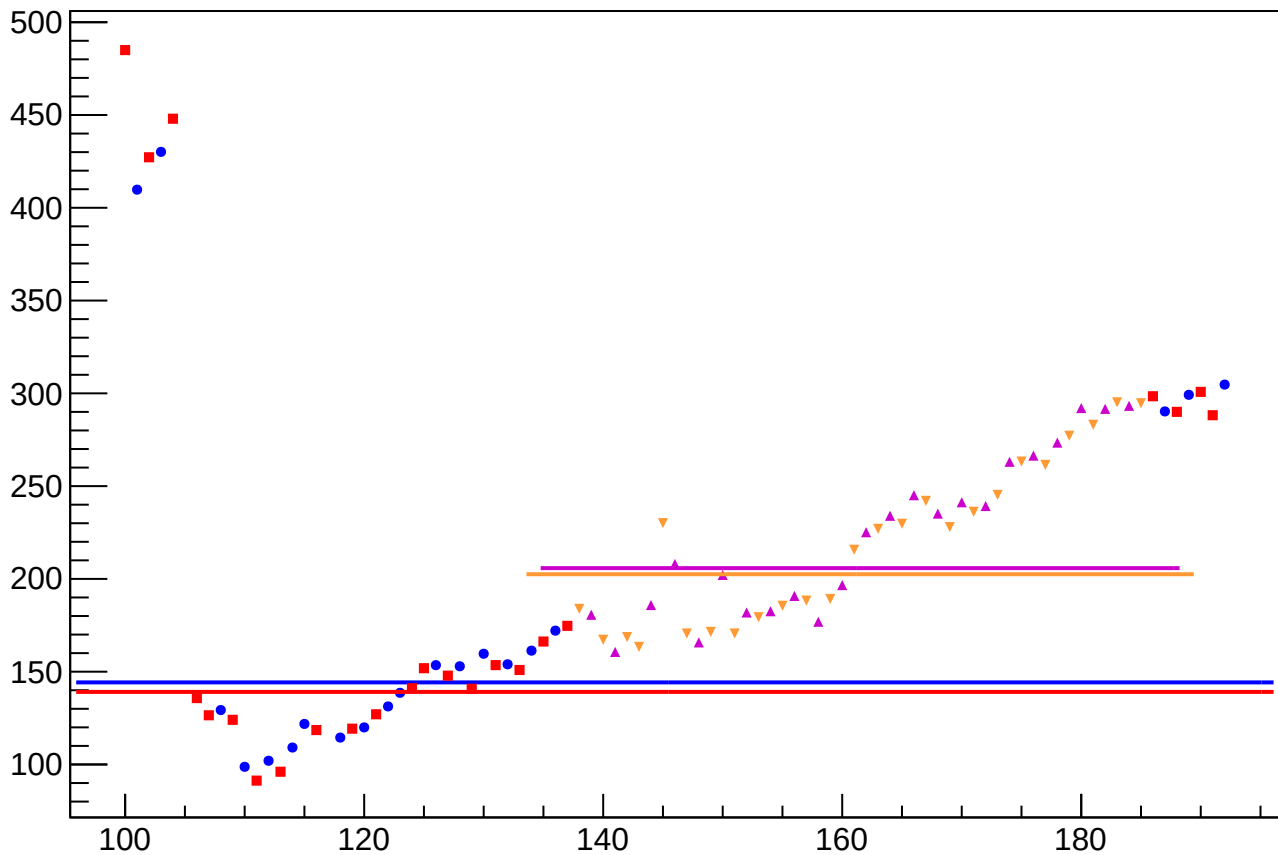
All: 168.250 $\pm$ 0.017 χ^2 /NDF: 10423817.3/90

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 134897.178 $\pm$ 0.055 χ^2 /NDF: 54670394578.7/19
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 135116.674 $\pm$ 0.051 χ^2 /NDF: 66893462431.8/22
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Right: 135015.392 $\pm$ 0.037 χ^2 /NDF: 121572391381
 In: 134273.264 $\pm$ 0.037 χ^2 /NDF: 55859952901.0/4
 Out: 134447.722 $\pm$ 0.035 χ^2 /NDF: 68298707867.8
 All: 134365.787 $\pm$ 0.026 χ^2 /NDF: 124170295

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 144.229 $\pm$ 0.039 χ^2 /NDF: 2322189.1/19

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 139.109 $\pm$ 0.036 χ^2 /NDF: 2588752.2/22

Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2 /NDF: 2310735.8/47

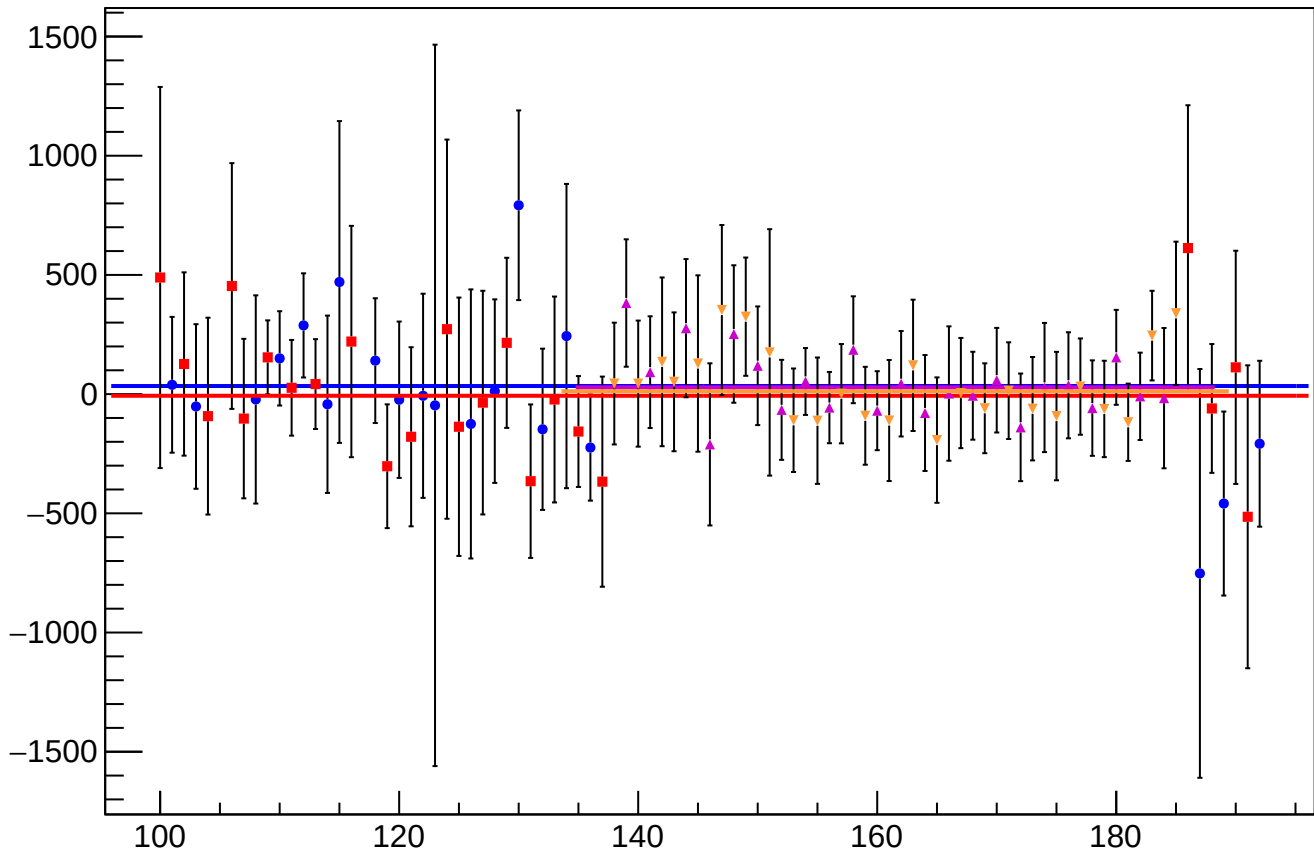
Right: 141.472 $\pm$ 0.026 χ^2 /NDF: 4920229.6/42

In: 177.709 $\pm$ 0.026 χ^2 /NDF:4772705.0/42

Out: 172.617 $\pm$ 0.025 χ^2 /NDF:5432289.0/47

All: 175.008 $\pm$ 0.018 χ^2 /NDF: 10224820.4/90

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 33.989 $\pm$ 75.458 χ^2 /NDF: 10.9/19

Left Out: 12.180 $\pm$ 47.531 χ^2 /NDF:8.6/24

Right Out: -6.880 $\pm$ 66.407 χ^2 /NDF: 9.0/22

Left In: 28.452 $\pm$ 44.688 χ^2 /NDF:6.7/22

Left: 20.817 $\pm$ 32.558 χ^2 /NDF: 15.3/47

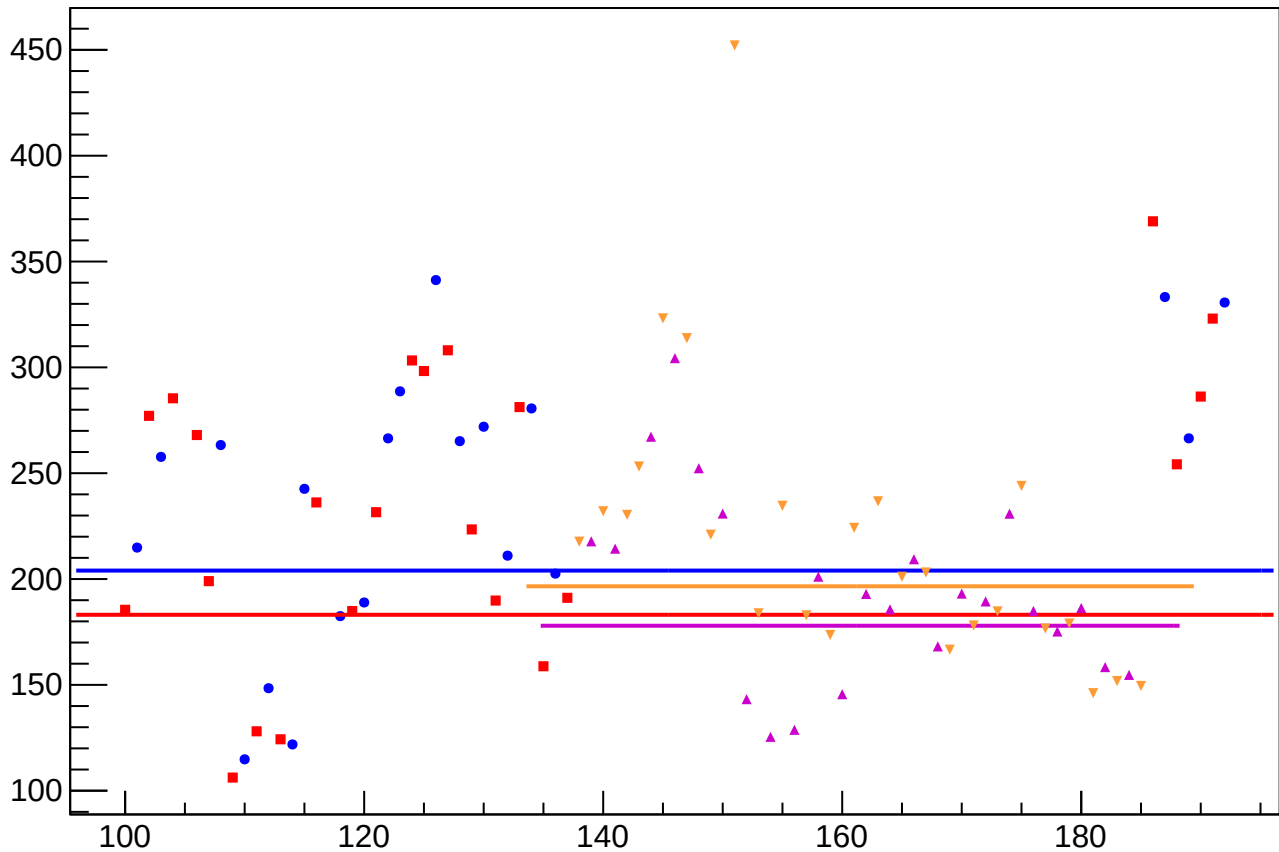
Right: 10.958 $\pm$ 49.851 χ^2 /NDF: 20.1/42

In: 29.890 $\pm$ 38.451 χ^2 /NDF:17.5/42

Out: 5.724 $\pm$ 38.651 χ^2 /NDF:17.7/47

All: 17.869 $\pm$ 27.259 χ^2 /NDF: 35.4/90

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 204.000 ± 0.053 $\chi^2/NDF: 1414718.0/19$

Left Out: 196.576 ± 0.034 $\chi^2/NDF: 1778719.0/24$

Right Out: 183.111 ± 0.047 $\chi^2/NDF: 2141994.2/22$

Left In: 177.933 ± 0.032 $\chi^2/NDF: 1605780.8/22$

Left: 186.680 ± 0.023 $\chi^2/NDF: 3547823.4/47$

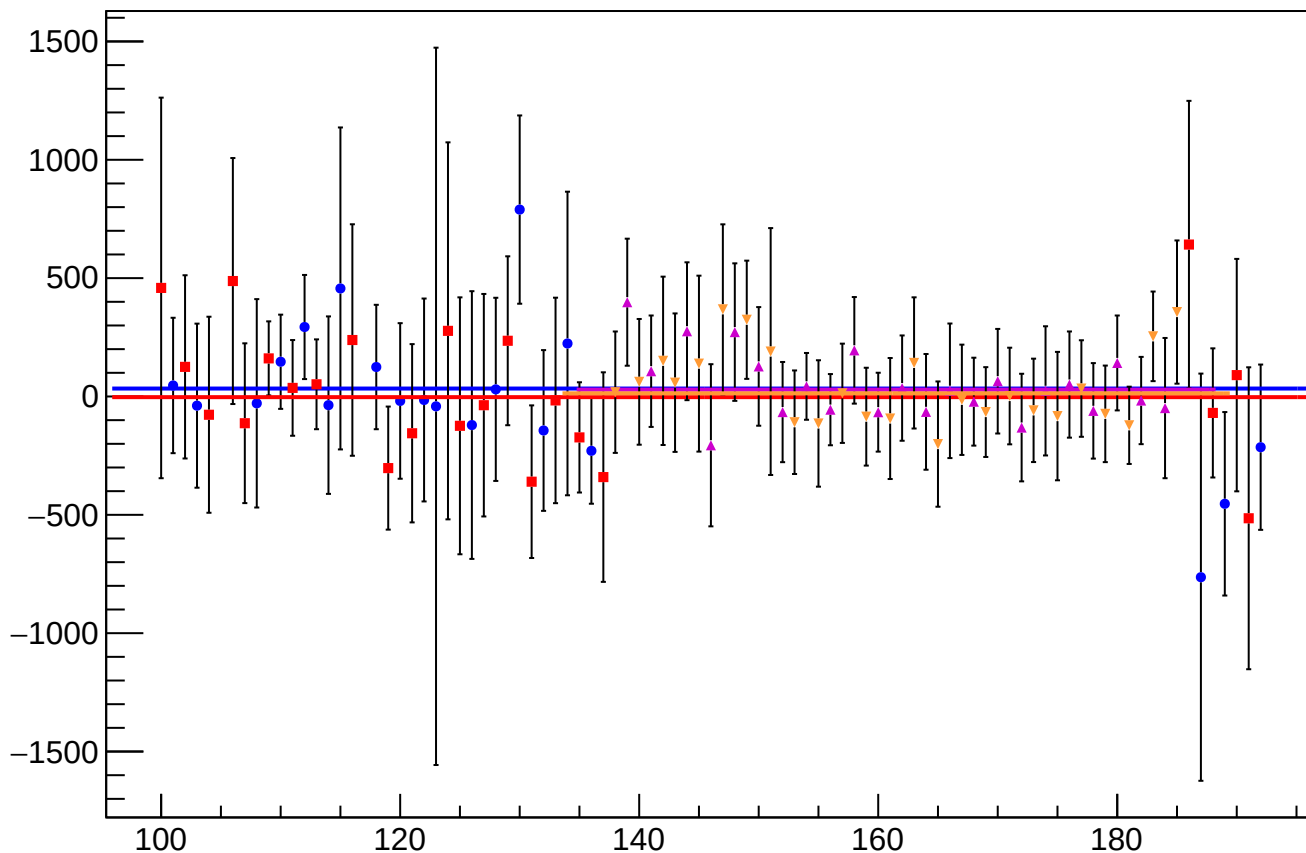
Right: 192.228 ± 0.035 $\chi^2/NDF: 3643090.5/42$

In: 184.702 ± 0.027 $\chi^2/NDF: 3197202.7/42$

Out: 192.015 ± 0.027 $\chi^2/NDF: 3975088.8/47$

All: 188.339 ± 0.019 $\chi^2/NDF: 7208277.1/90$

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 33.558+/-75.819 χ^2/NDF : 10.7/19

Left Out: 13.395+/-47.862 χ^2/NDF : 9.0/24

Right Out: -2.808+/-66.780 χ^2/NDF : 9.3/22

Left In: 28.806+/-44.980 χ^2/NDF : 6.8/22

Left: 21.578+/-32.777 χ^2/NDF : 15.9/47

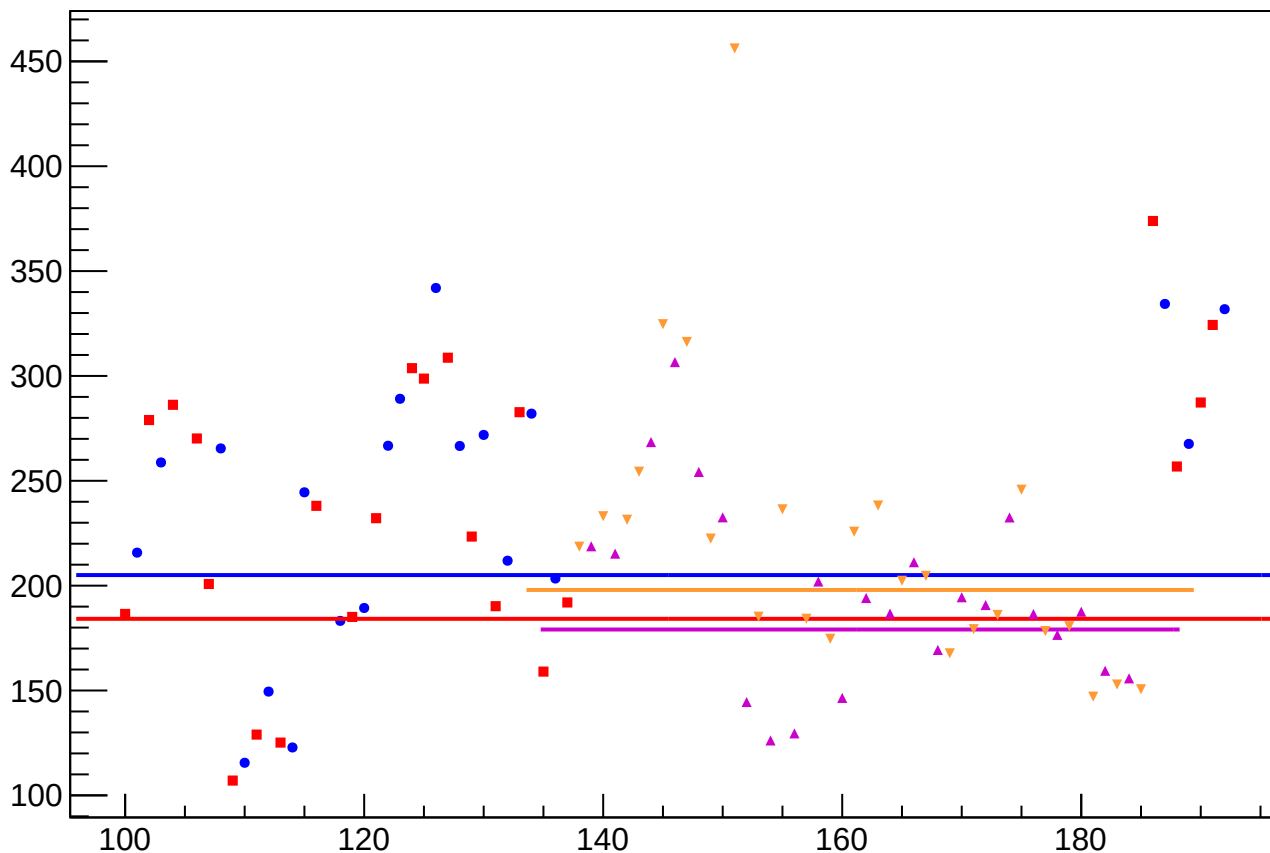
Right: 13.079+/-50.113 χ^2/NDF : 20.1/42

In: 30.043+/-38.685 χ^2/NDF : 17.6/42

Out: 7.896+/-38.902 χ^2/NDF : 18.3/47

All: 19.032+/-27.431 χ^2/NDF : 36.0/90

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 205.045 $\pm$ 0.054 χ^2 /NDF: 1404345.0/19

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 184.185 $\pm$ 0.047 χ^2 /NDF: 2134898.0/22

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

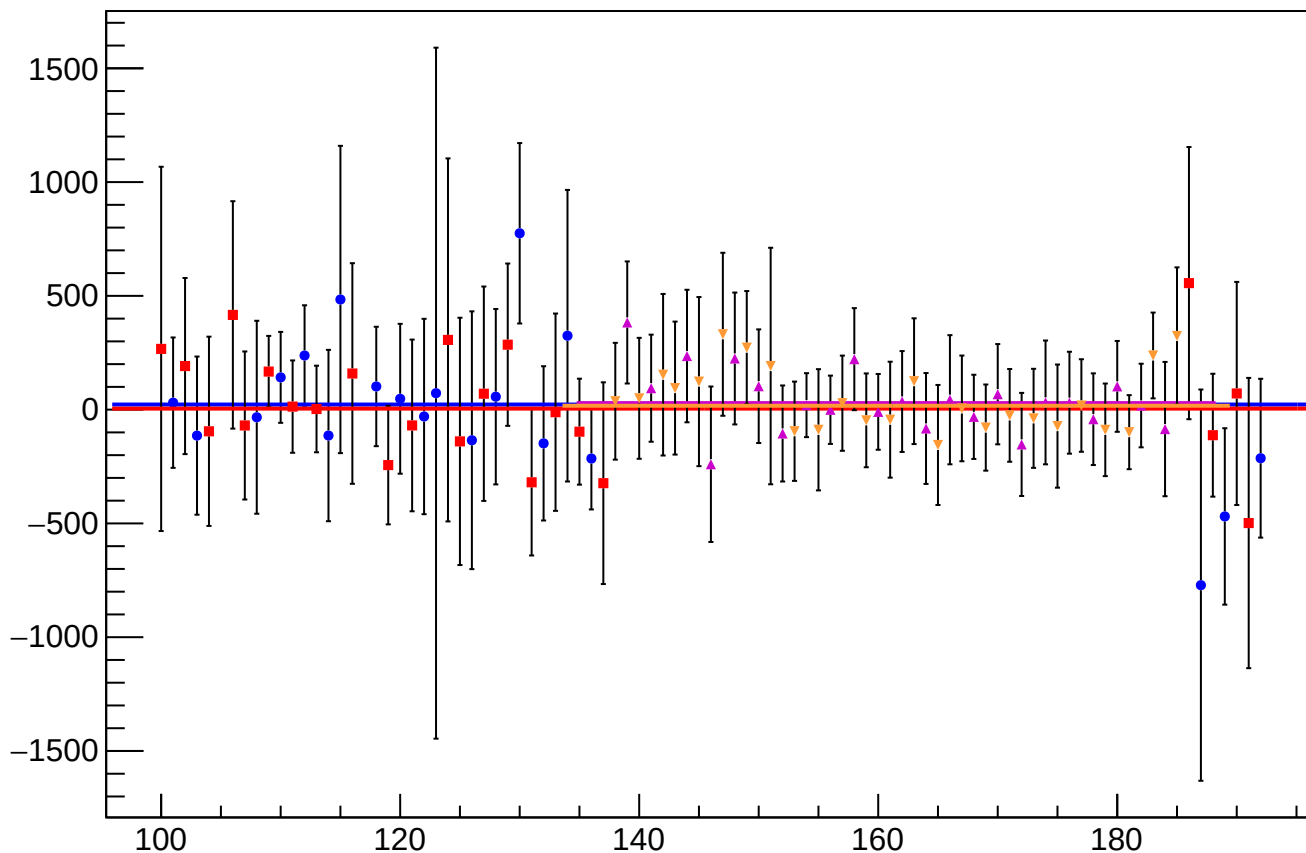
Right: 193.298 $\pm$ 0.035 χ^2 /NDF: 3624493.9/42

In: 185.846 $\pm$ 0.027 χ^2 /NDF:3182818.0/42

Out: 193.281 $\pm$ 0.028 χ^2 /NDF:3965583.2/47

All: 189.543 $\pm$ 0.019 χ^2 /NDF: 7185123.8/90

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 22.459+/-75.815 χ^2/NDF : 10.4/19

Left Out: 17.142+/-47.738 χ^2/NDF : 7.1/24

Right Out: 4.602+/-66.658 χ^2/NDF : 7.5/22

Left In: 28.655+/-44.859 χ^2/NDF : 6.1/22

Left: 23.256+/-32.690 χ^2/NDF : 13.2/47

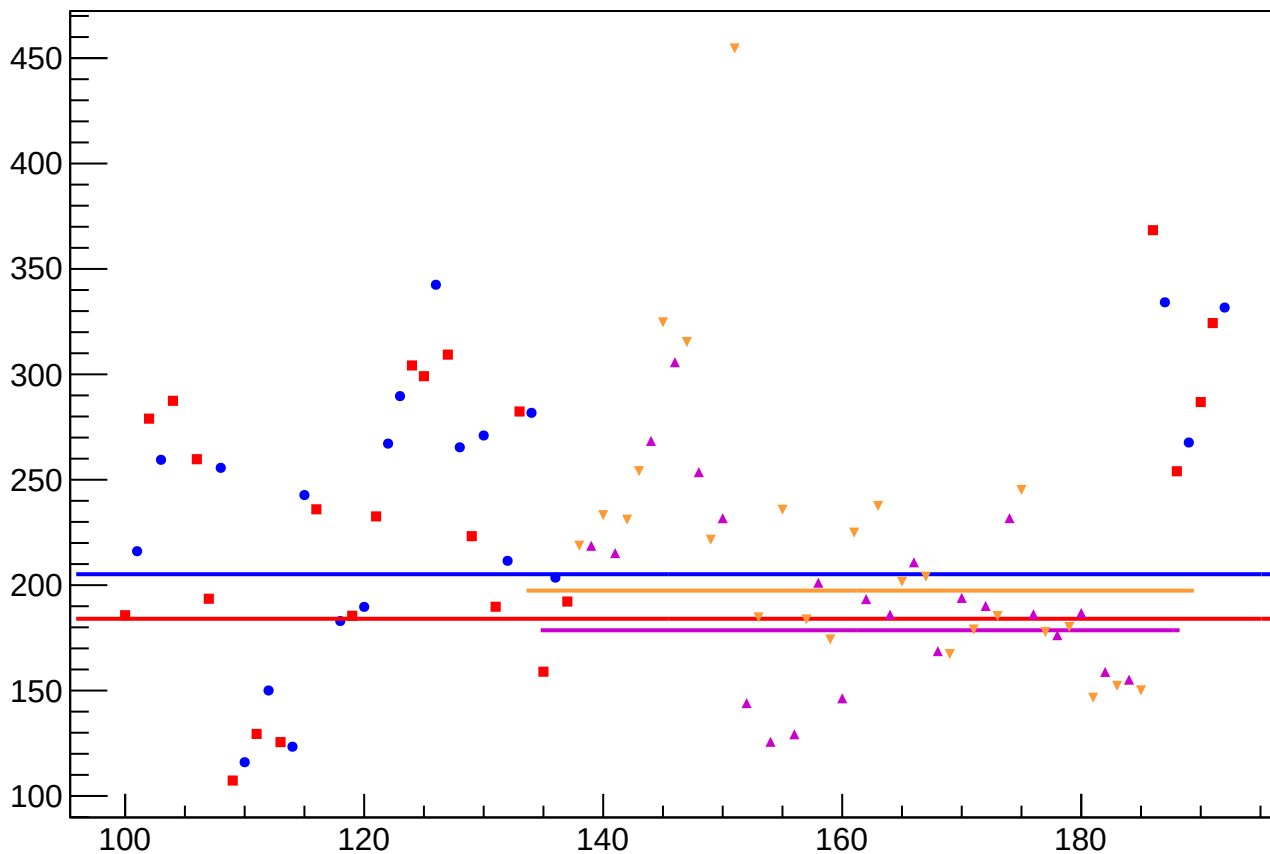
Right: 12.388+/-50.060 χ^2/NDF : 18.0/42

In: 27.049+/-38.607 χ^2/NDF : 16.5/42

Out: 12.891+/-38.811 χ^2/NDF : 14.6/47

All: 20.007+/-27.371 χ^2/NDF : 31.2/90

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 205.192 $\pm$ 0.054 χ^2 /NDF: 1380830.4/19

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 184.057 $\pm$ 0.047 χ^2 /NDF: 2098067.1/22

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

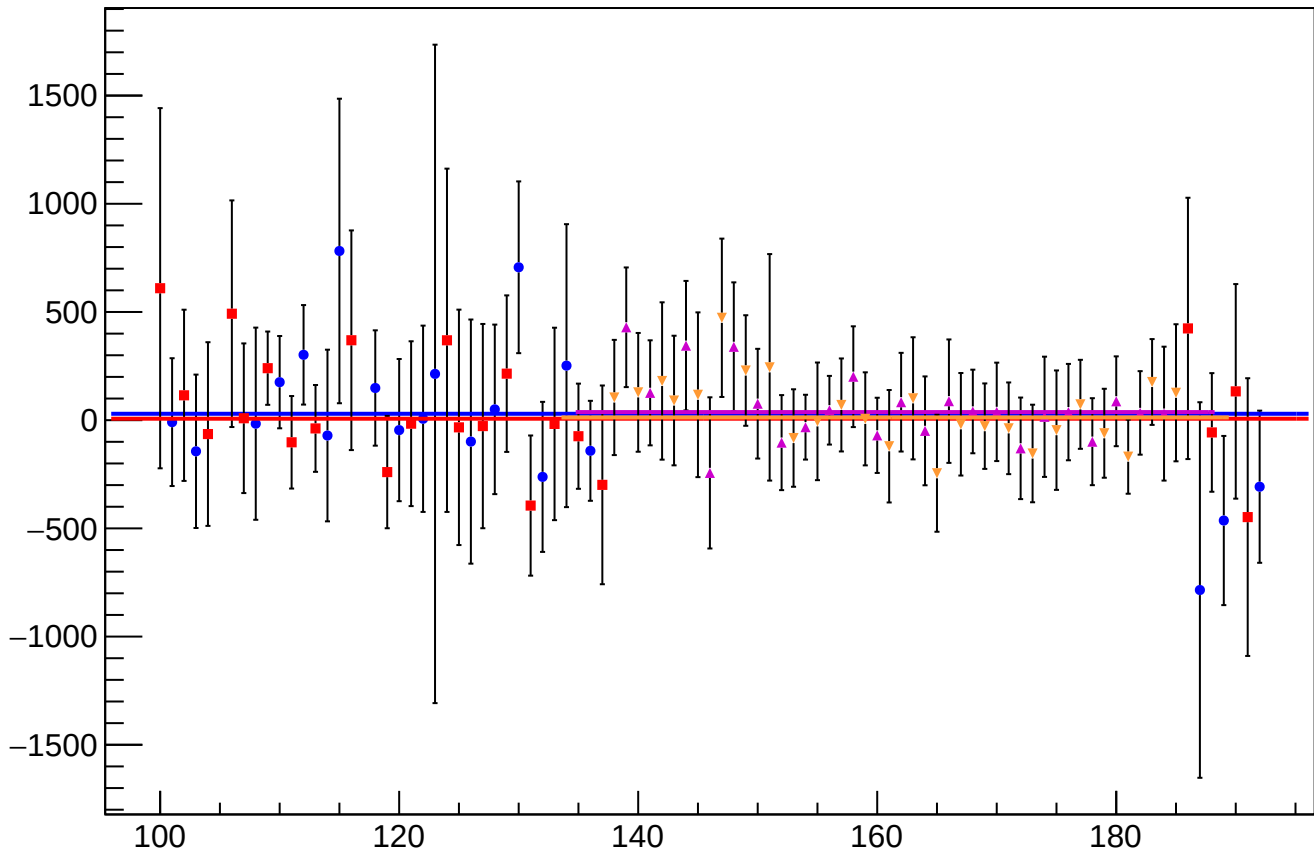
Right: 193.272 $\pm$ 0.035 χ^2 /NDF: 3566553.3/42

In: 185.497 $\pm$ 0.027 χ^2 /NDF:3172052.5/42

Out: 192.891 $\pm$ 0.027 χ^2 /NDF:3931467.2/47

All: 189.174 $\pm$ 0.019 χ^2 /NDF: 7140010.6/90

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 29.594 $\pm$ 78.008 χ^2 /NDF: 11.3/19

Left Out: 12.632 $\pm$ 49.242 χ^2 /NDF: 7.5/24

Right Out: 6.802 $\pm$ 69.247 χ^2 /NDF: 8.9/22

Left In: 37.460 $\pm$ 46.479 χ^2 /NDF: 7.6/22

Left: 25.762 $\pm$ 33.800 χ^2 /NDF: 15.3/47

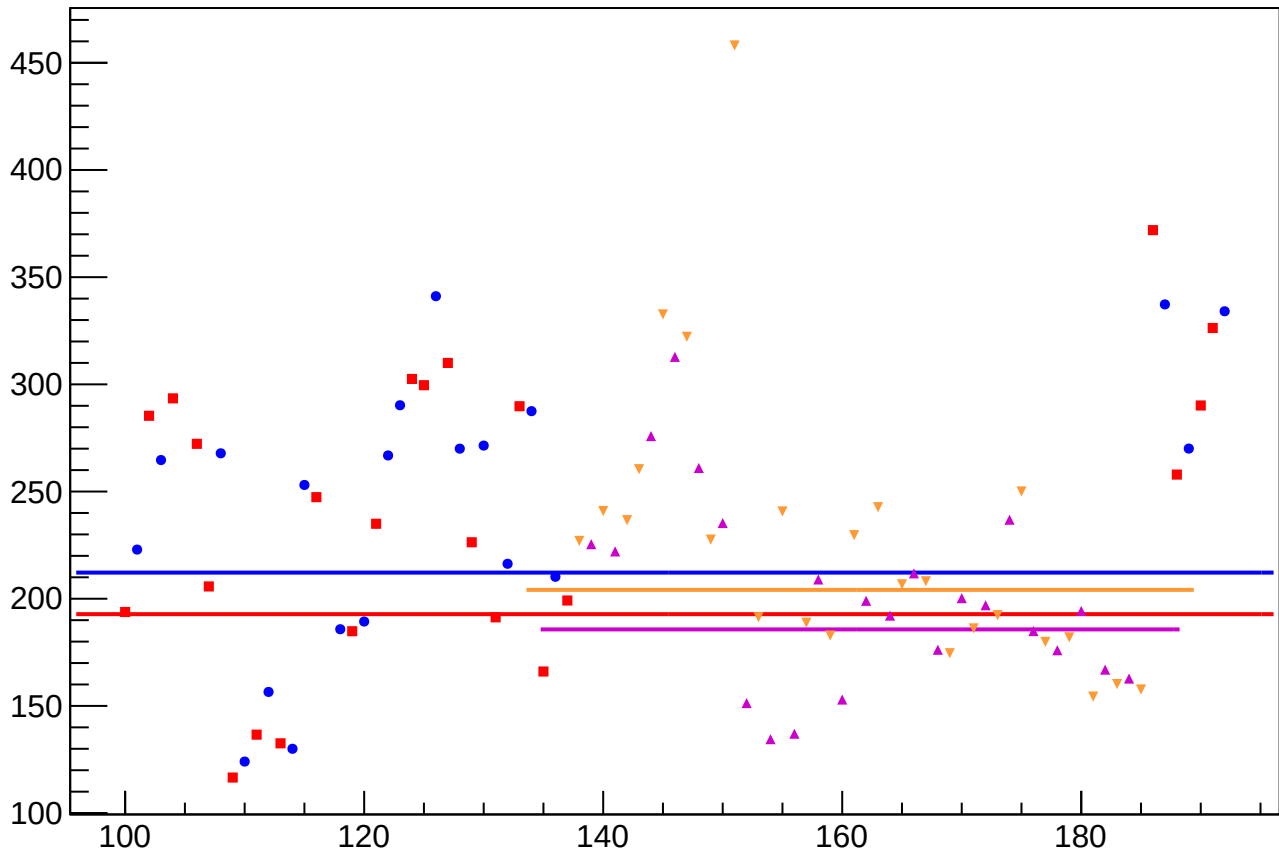
Right: 16.847 $\pm$ 51.787 χ^2 /NDF: 20.3/42

In: 35.399 $\pm$ 39.929 χ^2 /NDF: 19.0/42

Out: 10.674 $\pm$ 40.130 χ^2 /NDF: 16.4/47

All: 23.099 $\pm$ 28.305 χ^2 /NDF: 35.6/90

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 212.193 $\pm$ 0.055 χ^2/NDF : 1241872.4/19

Left Out: 204.132 $\pm$ 0.035 χ^2/NDF : 1672287.6/24

Right Out: 192.801 $\pm$ 0.049 χ^2/NDF : 1872444.0/22

Left In: 185.694 $\pm$ 0.033 χ^2/NDF : 1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2/NDF : 3268347.9/47

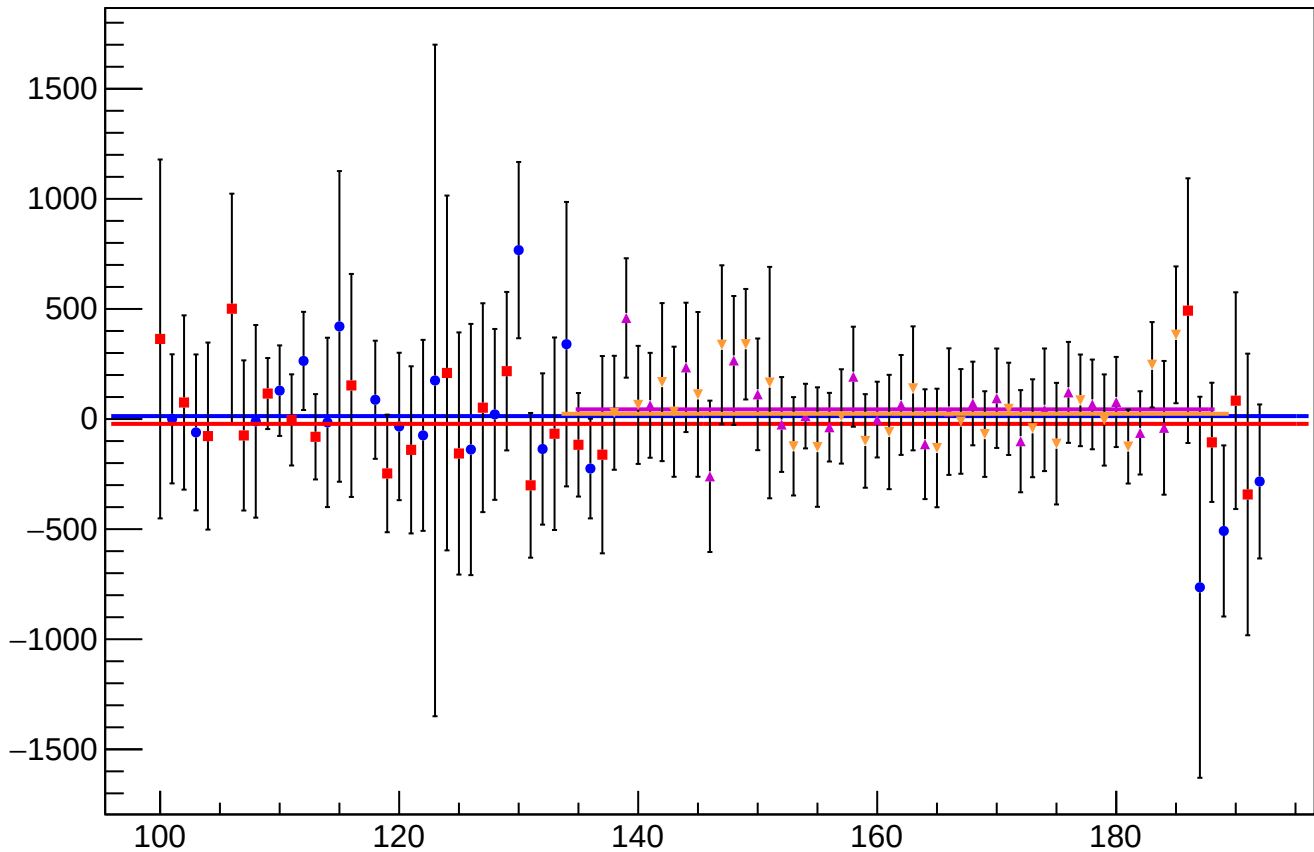
Right: 201.348 $\pm$ 0.037 χ^2/NDF : 3183437.1/42

In: 192.636 $\pm$ 0.028 χ^2/NDF : 2859964.7/42

Out: 200.327 $\pm$ 0.028 χ^2/NDF : 3580293.6/47

All: 196.462 $\pm$ 0.020 χ^2/NDF : 6477167.0/90

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 13.401 $\pm$ 77.058 χ^2 /NDF: 10.6/19

Left Out: 23.843 $\pm$ 48.783 χ^2 /NDF:8.5/24

Right Out: -21.918 $\pm$ 67.957 χ^2 /NDF: 5.8/22

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 34.506 $\pm$ 33.460 χ^2 /NDF: 15.1/47

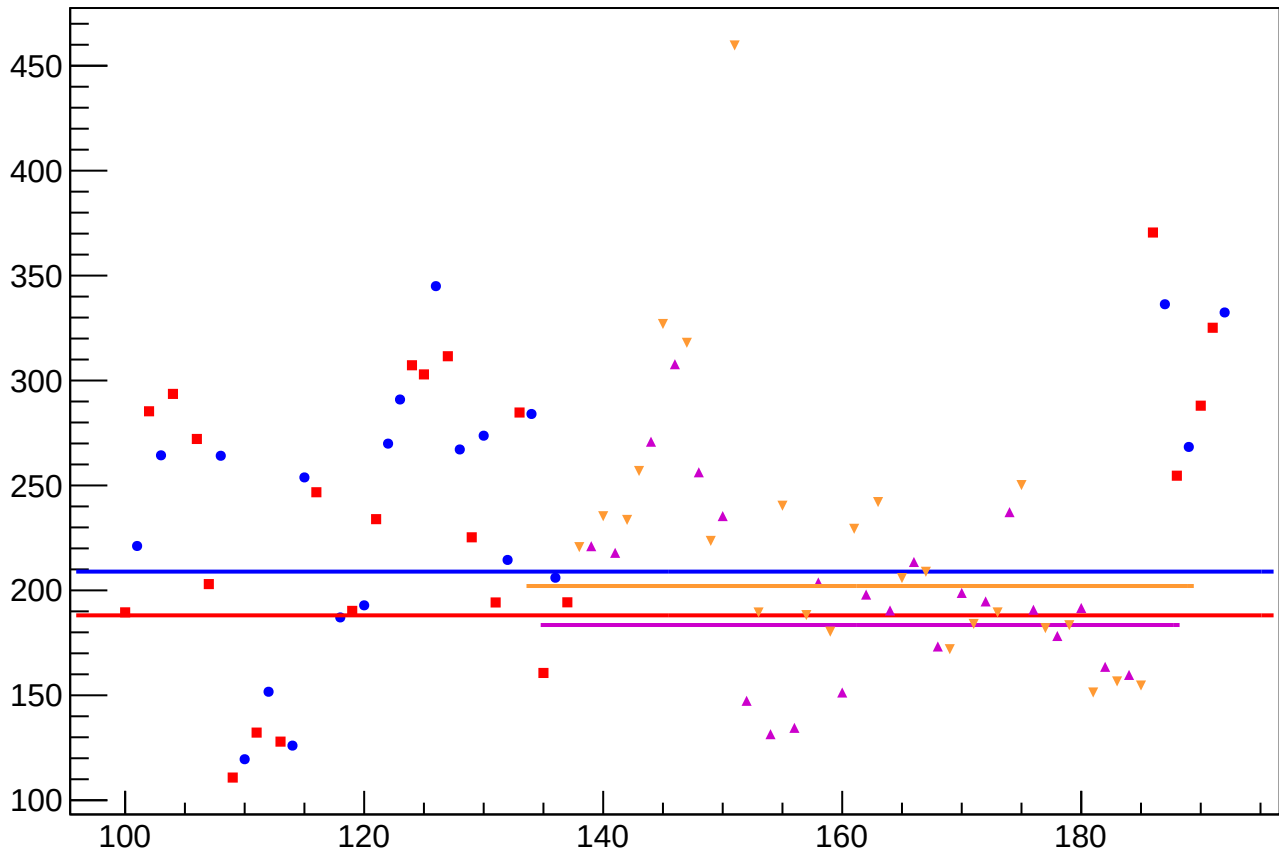
Right: -6.466 $\pm$ 50.968 χ^2 /NDF: 16.5/42

In: 35.950 $\pm$ 39.485 χ^2 /NDF:17.3/42

Out: 8.281 $\pm$ 39.629 χ^2 /NDF:14.6/47

All: 22.166 $\pm$ 27.971 χ^2 /NDF: 32.1/90

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 208.943 $\pm$ 0.054 χ^2 /NDF: 1336917.3/19

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 188.096 $\pm$ 0.048 χ^2 /NDF: 2047031.7/22

Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2 /NDF: 3329846.6/47

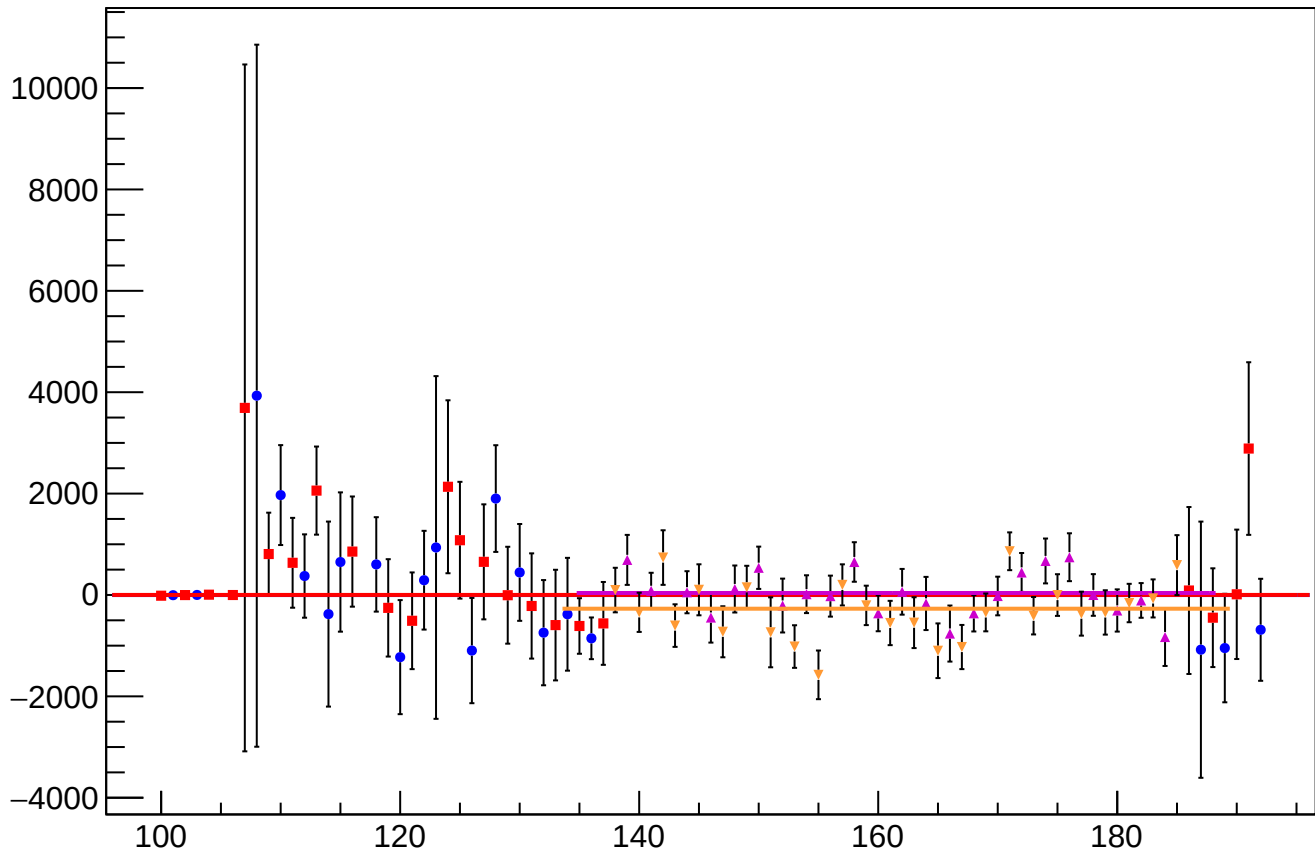
Right: 197.217 $\pm$ 0.036 χ^2 /NDF: 3466288.4/42

In: 190.179 $\pm$ 0.028 χ^2 /NDF:2981116.9/42

Out: 197.325 $\pm$ 0.028 χ^2 /NDF:3795708.9/47

All: 193.739 $\pm$ 0.020 χ^2 /NDF: 6809458.6/90

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.538 ± 2.251 χ^2/NDF : 19.0/19

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.728 ± 2.111 χ^2/NDF : 22.2/22

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

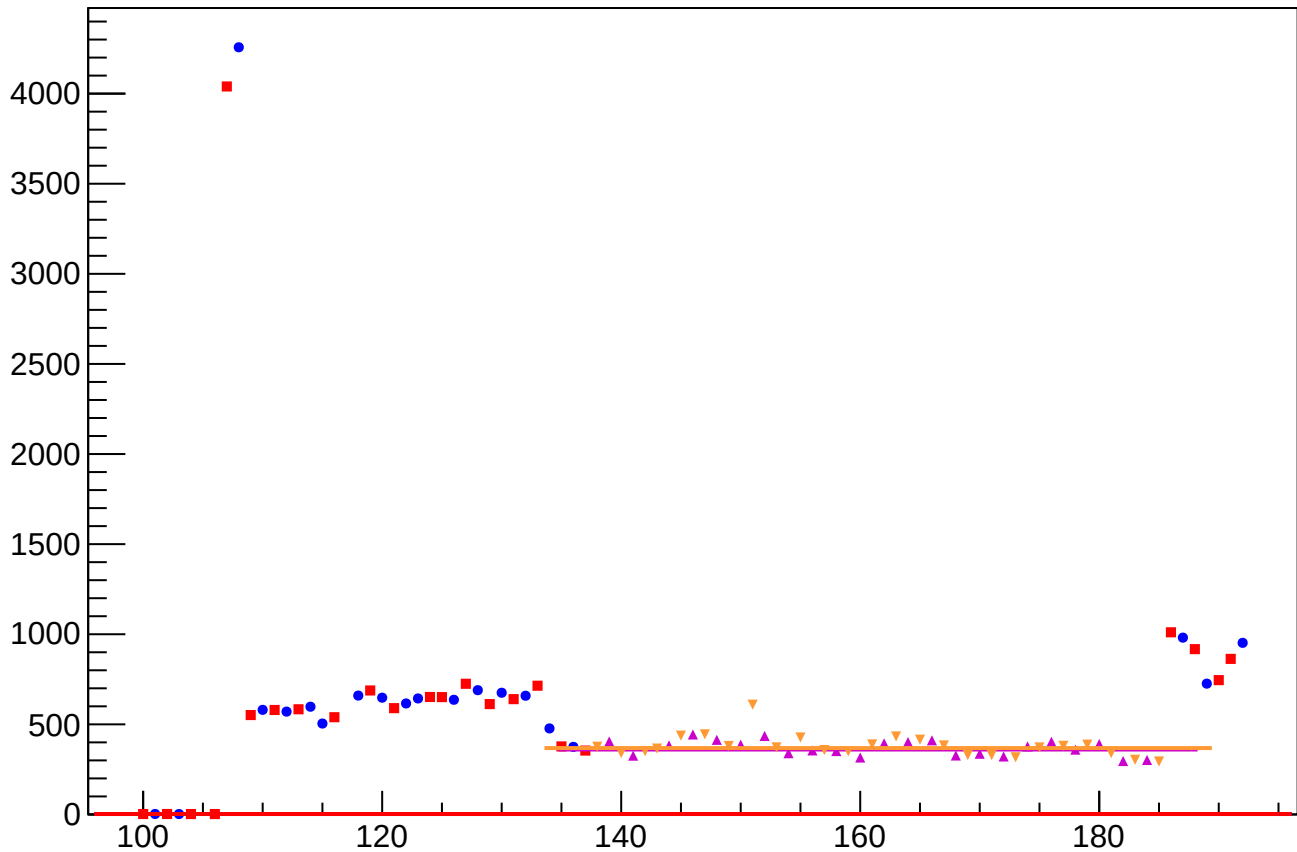
Right: -0.332 ± 1.540 χ^2/NDF : 41.8/42

In: -1.512 ± 2.251 χ^2/NDF : 39.5/42

Out: 0.568 ± 2.110 χ^2/NDF : 70.1/47

All: -0.405 ± 1.540 χ^2/NDF : 110.0/90

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.465+/-0.002 χ^2/NDF : 13804706.2/19

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.446+/-0.001 χ^2/NDF : 14803794.5/22

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

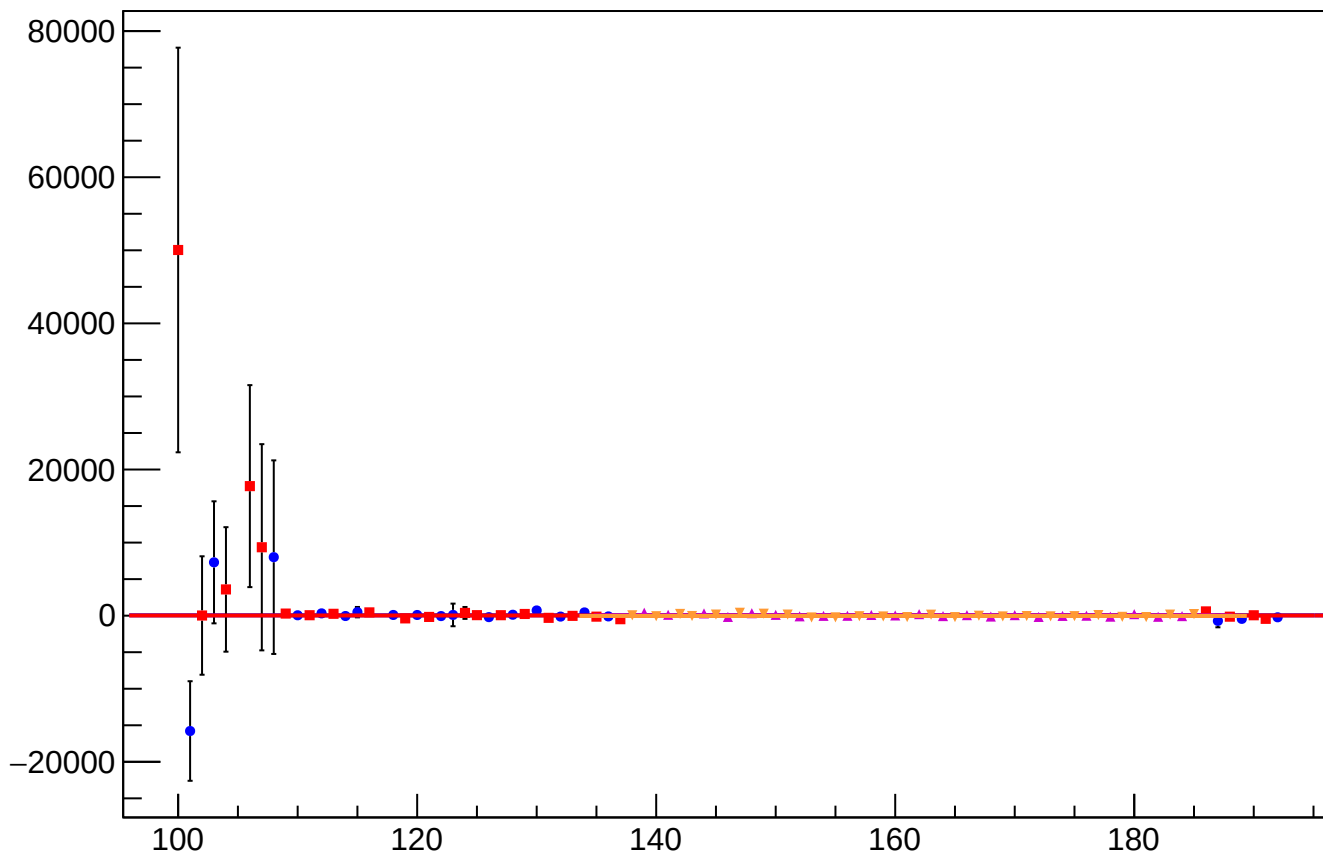
Right: 2.455+/-0.001 χ^2/NDF : 28608578.7/42

In: 2.701+/-0.002 χ^2/NDF : 47464308.7/42

Out: 2.661+/-0.001 χ^2/NDF : 50818519.2/47

All: 2.680+/-0.001 χ^2/NDF : 98283149.6/90

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 49.371+/-85.844 χ^2/NDF : 15.1/19

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: 26.495+/-78.552 χ^2/NDF : 15.8/22

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

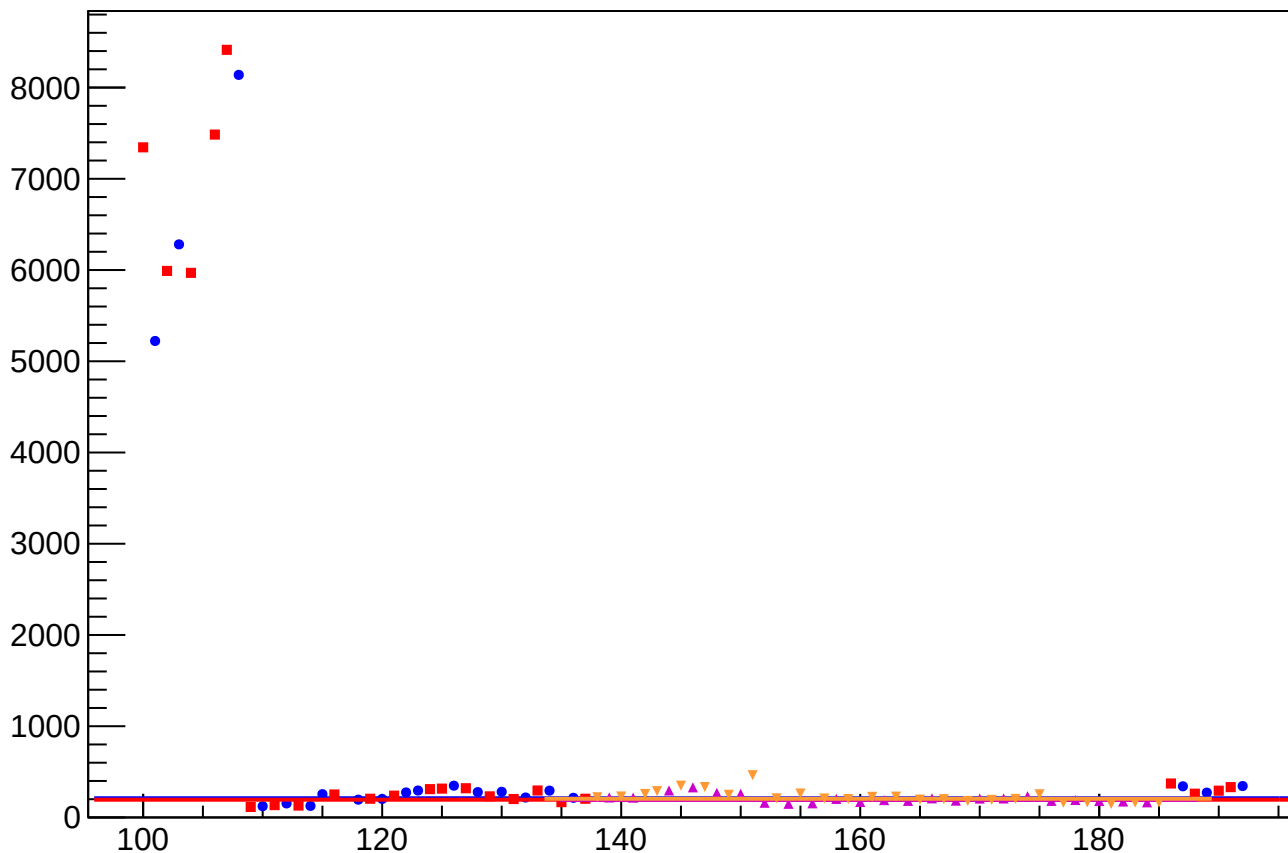
Right: 36.920+/-57.951 χ^2/NDF : 30.9/42

In: 33.273+/-42.006 χ^2/NDF : 24.4/42

Out: -19.610+/-41.956 χ^2/NDF : 25.5/47

All: 6.800+/-29.685 χ^2/NDF : 50.7/90

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 210.495 $\pm$ 0.061 χ^2 /NDF: 4104444.4/19

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF: 1956045.1/24

Right Out: 194.492 $\pm$ 0.056 χ^2 /NDF: 4829890.1/22

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF: 1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

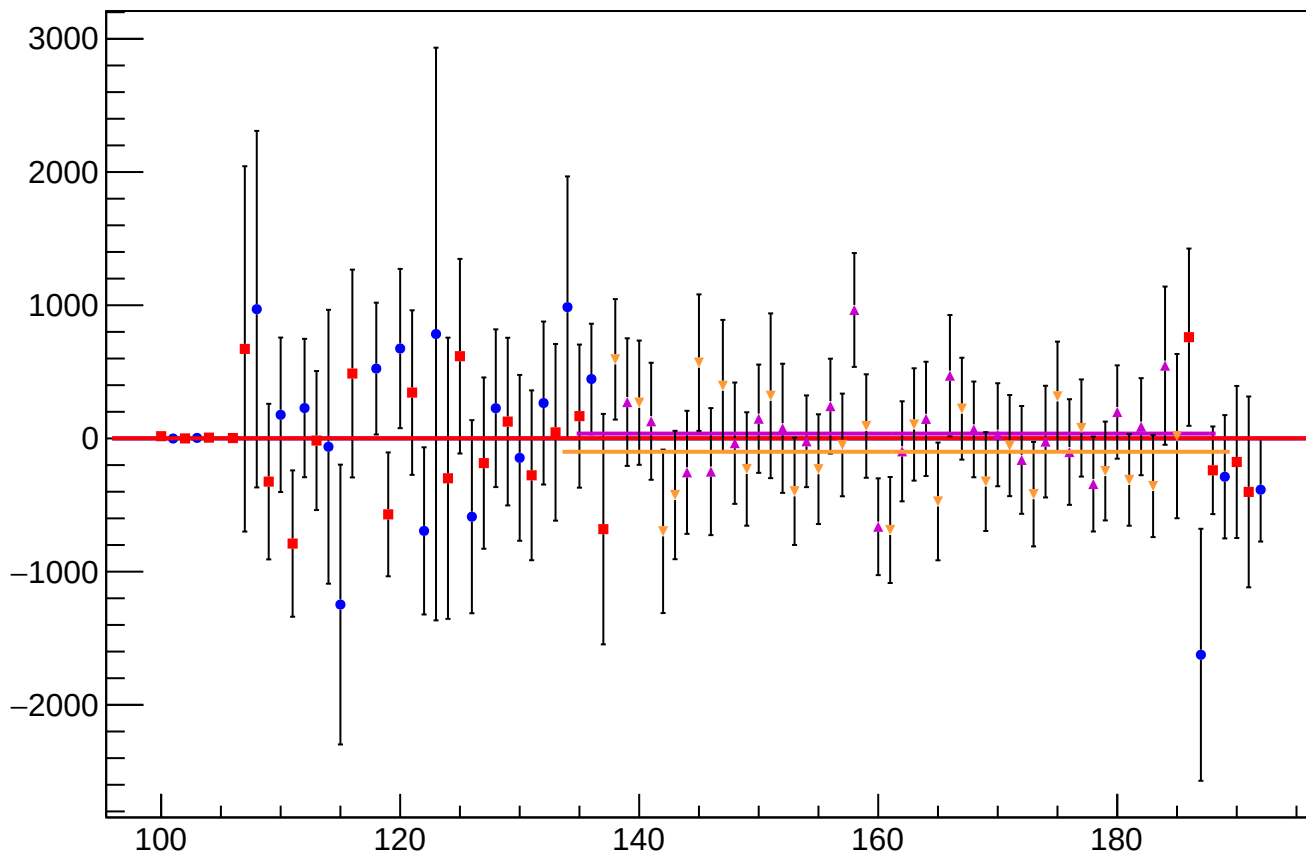
Right: 201.785 $\pm$ 0.041 χ^2 /NDF: 8972163.9/42

In: 197.497 $\pm$ 0.030 χ^2 /NDF: 5336905.2/42

Out: 202.022 $\pm$ 0.030 χ^2 /NDF: 6811644.1/47

All: 199.762 $\pm$ 0.021 χ^2 /NDF: 12160164.8/90

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.157 ± 1.737 $\chi^2/\text{NDF}: 14.3/19$

Left Out: -100.058 ± 84.190 $\chi^2/\text{NDF}: 15.7/24$

Right Out: 1.318 ± 1.623 $\chi^2/\text{NDF}: 11.6/22$

Left In: 36.497 ± 84.675 $\chi^2/\text{NDF}: 13.5/22$

Left: -32.173 ± 59.702 $\chi^2/\text{NDF}: 30.5/47$

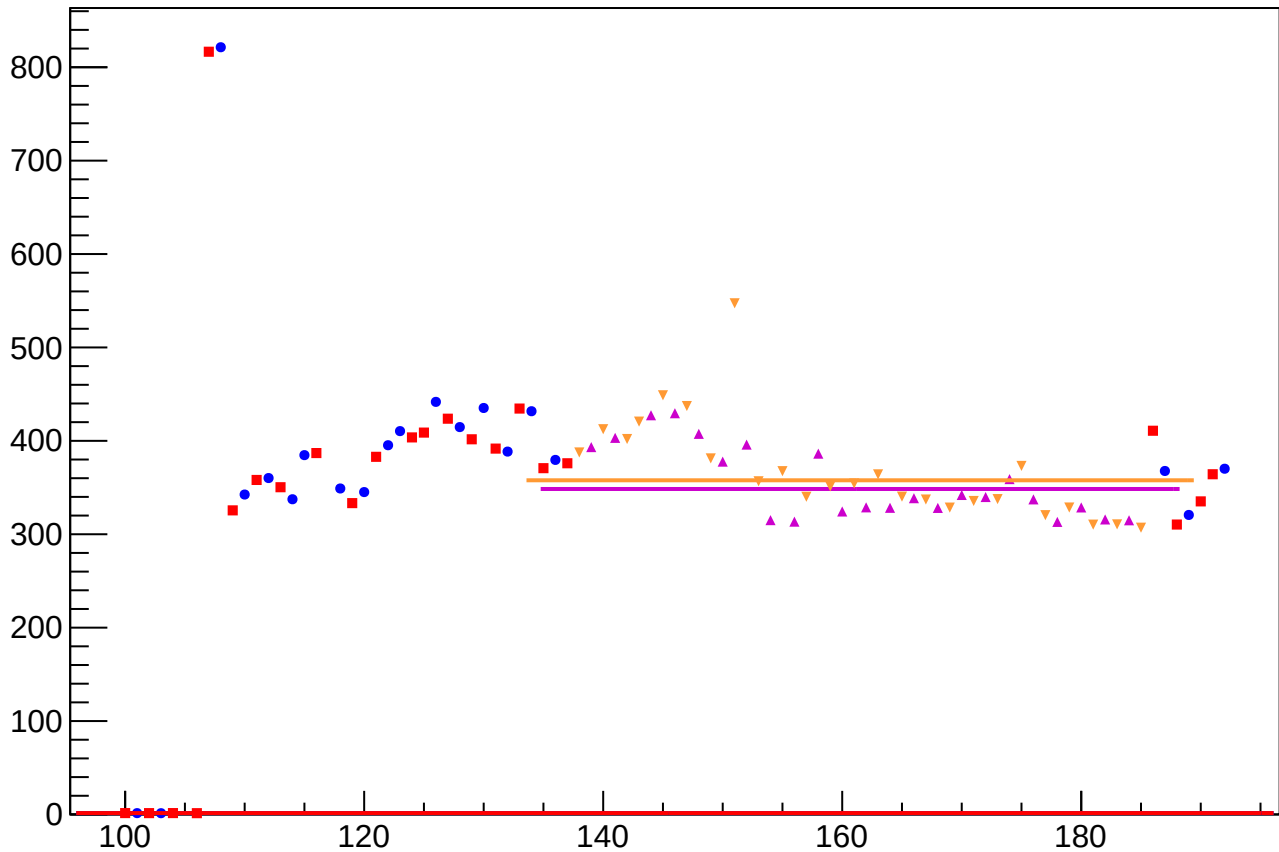
Right: 0.630 ± 1.186 $\chi^2/\text{NDF}: 26.4/42$

In: -0.142 ± 1.736 $\chi^2/\text{NDF}: 28.1/42$

Out: 1.280 ± 1.622 $\chi^2/\text{NDF}: 28.8/47$

All: 0.617 ± 1.185 $\chi^2/\text{NDF}: 57.2/90$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.466 $\pm$ 0.001 χ^2 /NDF: 13961493.0/19

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF:547124.8/24

Right Out: 1.465 $\pm$ 0.001 χ^2 /NDF: 14555962.9/22

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

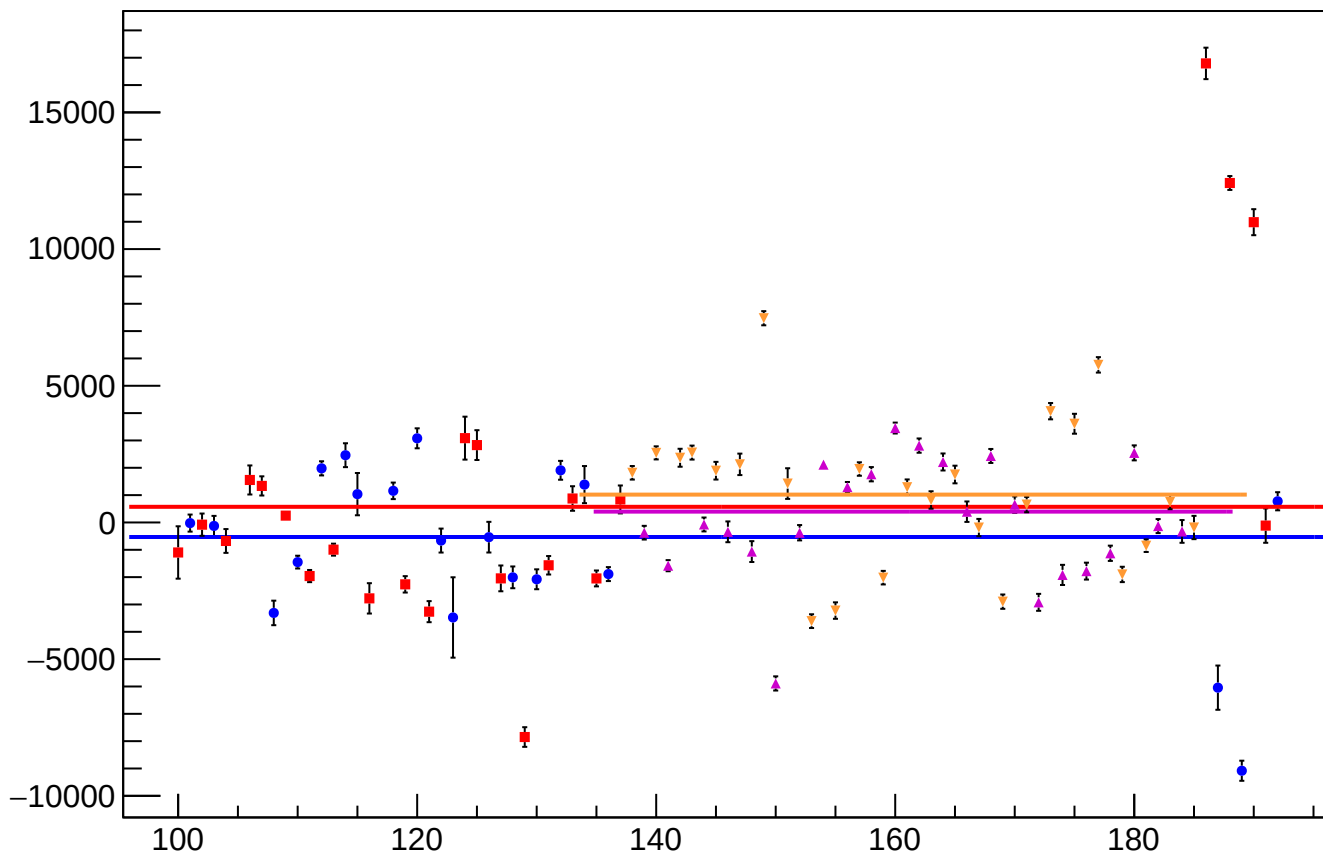
Right: 1.466 $\pm$ 0.001 χ^2 /NDF: 28517456.0/42

In: 1.612 $\pm$ 0.001 χ^2 /NDF:47894824.2/42

Out: 1.598 $\pm$ 0.001 χ^2 /NDF:50912379.3/47

All: 1.604 $\pm$ 0.001 χ^2 /NDF: 98807271.5/90

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -531.823+/-82.243 χ^2/NDF : 1056.4/19

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: 572.508+/-72.931 χ^2/NDF : 4608.9/22

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

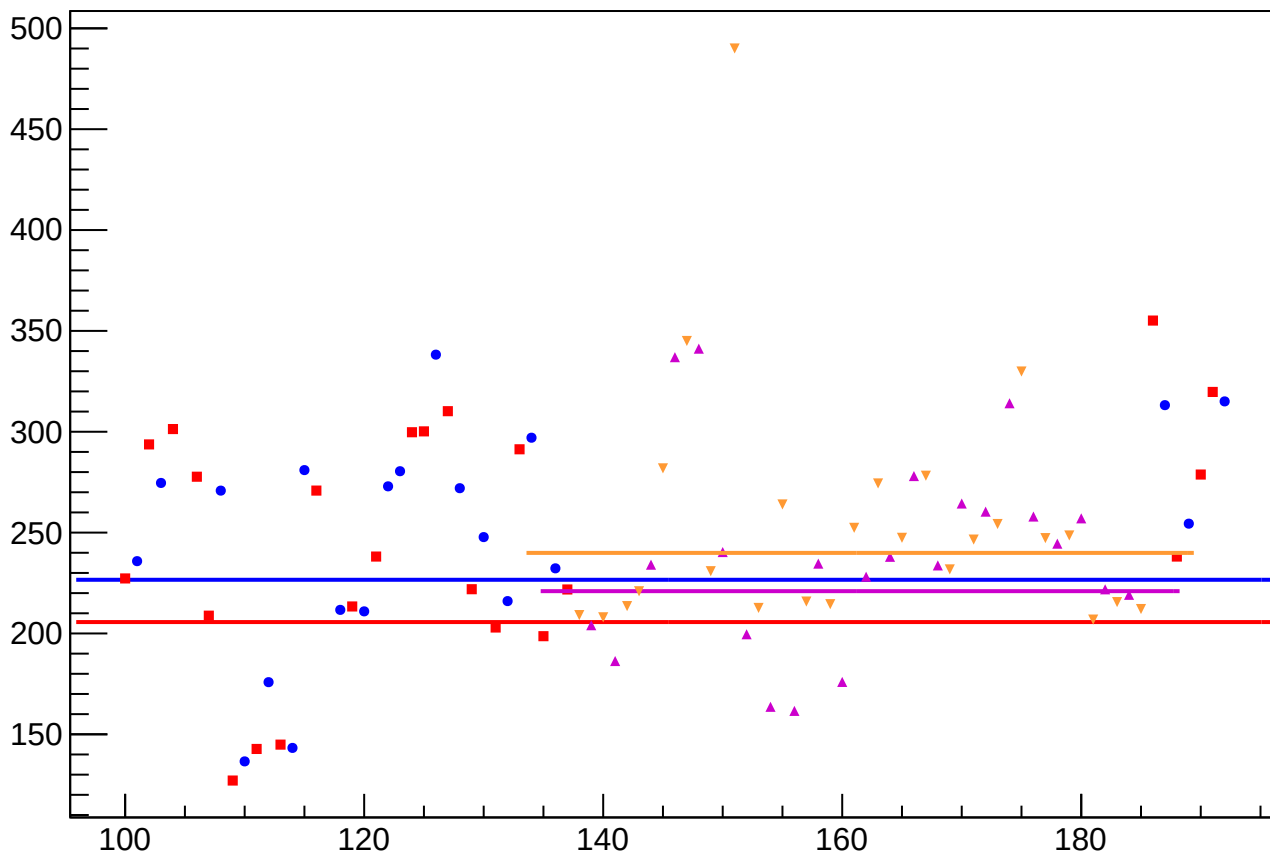
Right: 86.370+/-54.567 χ^2/NDF : 5766.3/42

In: 109.051+/-45.770 χ^2/NDF : 2725.4/42

Out: 848.188+/-45.107 χ^2/NDF : 6942.2/47

All: 484.018+/-32.127 χ^2/NDF : 9799.9/90

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 226.613 $\pm$ 0.058 χ^2 /NDF: 857765.3/19

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 205.648 $\pm$ 0.052 χ^2 /NDF: 1499943.1/22

Left In: 220.972 $\pm$ 0.039 χ^2 /NDF:1327680.6/22

Left: 230.067 $\pm$ 0.028 χ^2 /NDF: 2442154.9/47

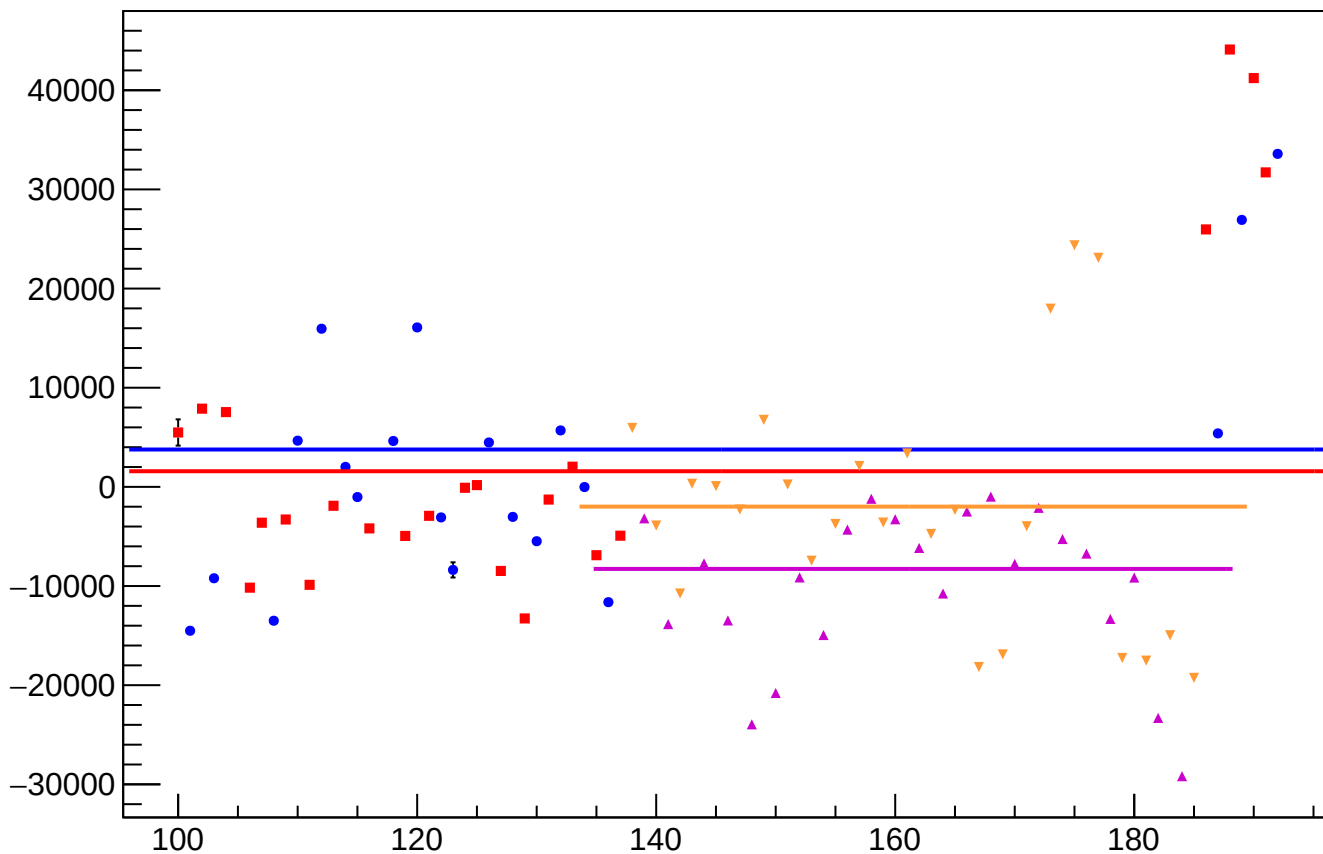
Right: 214.877 $\pm$ 0.039 χ^2 /NDF: 2430459.0/42

In: 222.719 $\pm$ 0.032 χ^2 /NDF:2191941.3/42

Out: 226.824 $\pm$ 0.032 χ^2 /NDF:2773769.9/47

All: 224.801 $\pm$ 0.023 χ^2 /NDF: 4973872.9/90

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3767.726+/-51.329 χ^2/NDF : 67970.3/19

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 1576.008+/-48.538 χ^2/NDF : 105266.5/22

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

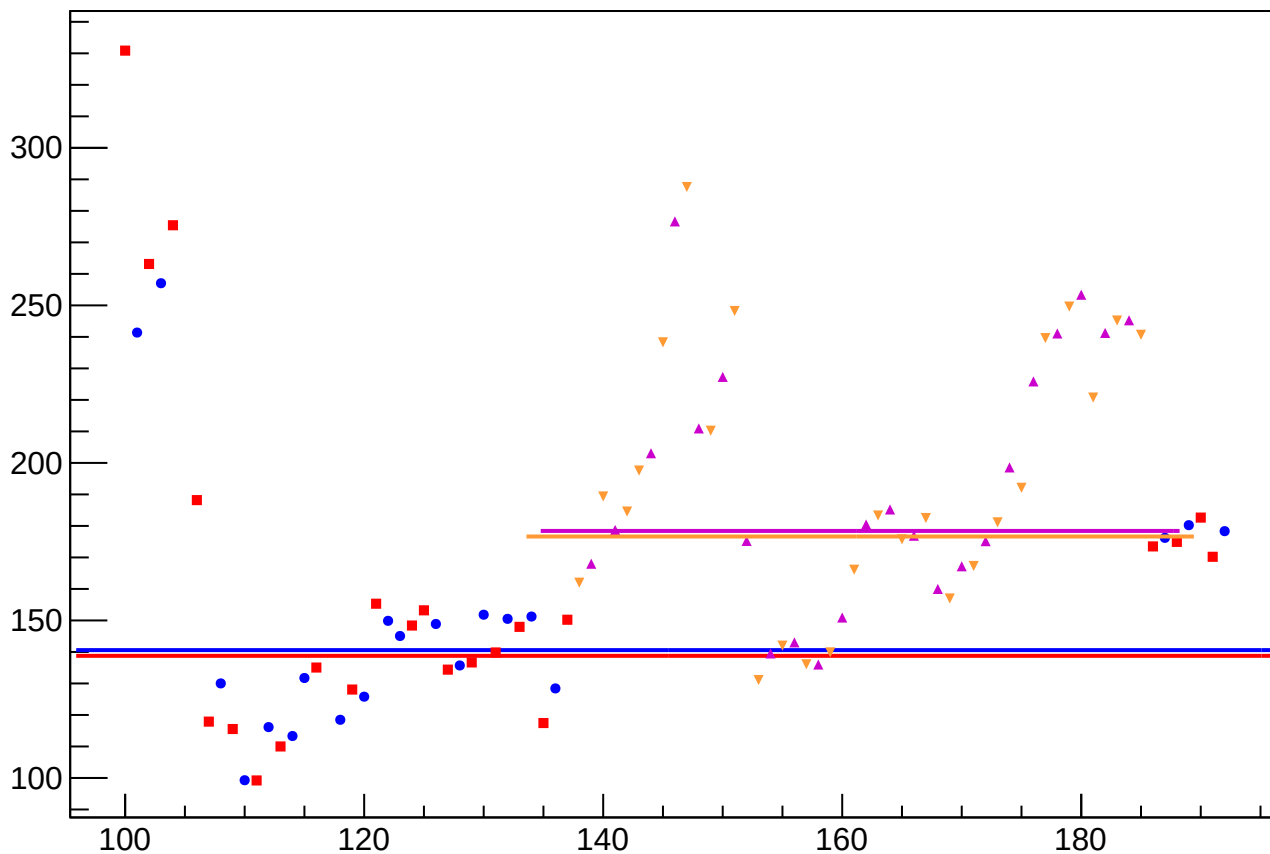
Right: 2610.672+/-35.267 χ^2/NDF : 174199.3/42

In: -3132.875+/-33.537 χ^2/NDF : 122377.7/42

Out: -446.521+/-31.944 χ^2/NDF : 172095.9/47

All: -1724.364+/-23.131 χ^2/NDF : 297837.6/99

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 140.583 $\pm$ 0.036 χ^2 /NDF: 816529.9/19

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 138.772 $\pm$ 0.034 χ^2 /NDF: 1018915.3/22

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

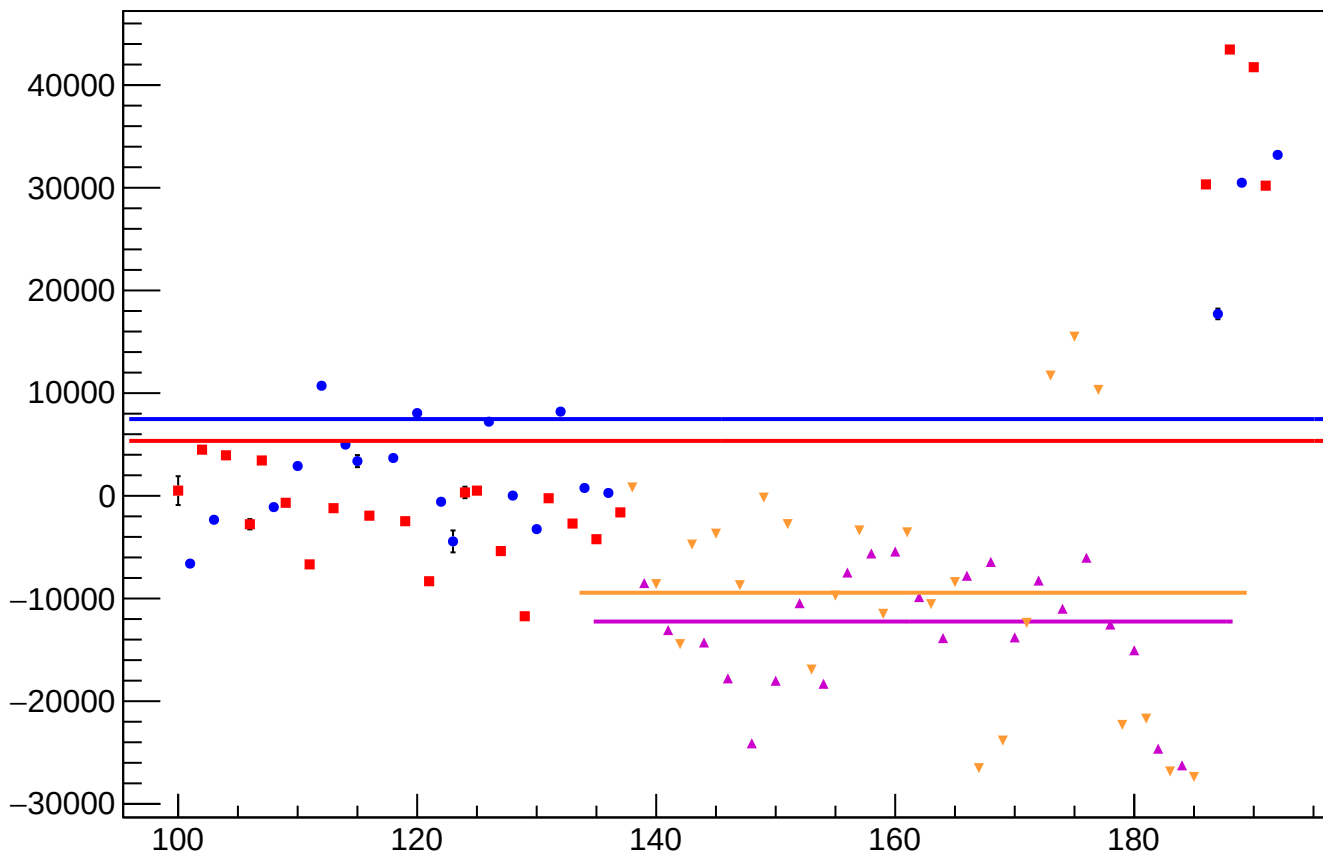
Right: 139.627 $\pm$ 0.025 χ^2 /NDF: 1836759.5/42

In: 162.263 $\pm$ 0.024 χ^2 /NDF:2732874.3/42

Out: 160.239 $\pm$ 0.023 χ^2 /NDF:3260075.1/47

All: 161.202 $\pm$ 0.016 χ^2 /NDF: 5996769.1/90

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7473.094+/-64.743 χ^2/NDF : 30580.6/19

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 5350.986+/-59.225 χ^2/NDF : 83678.1/22

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

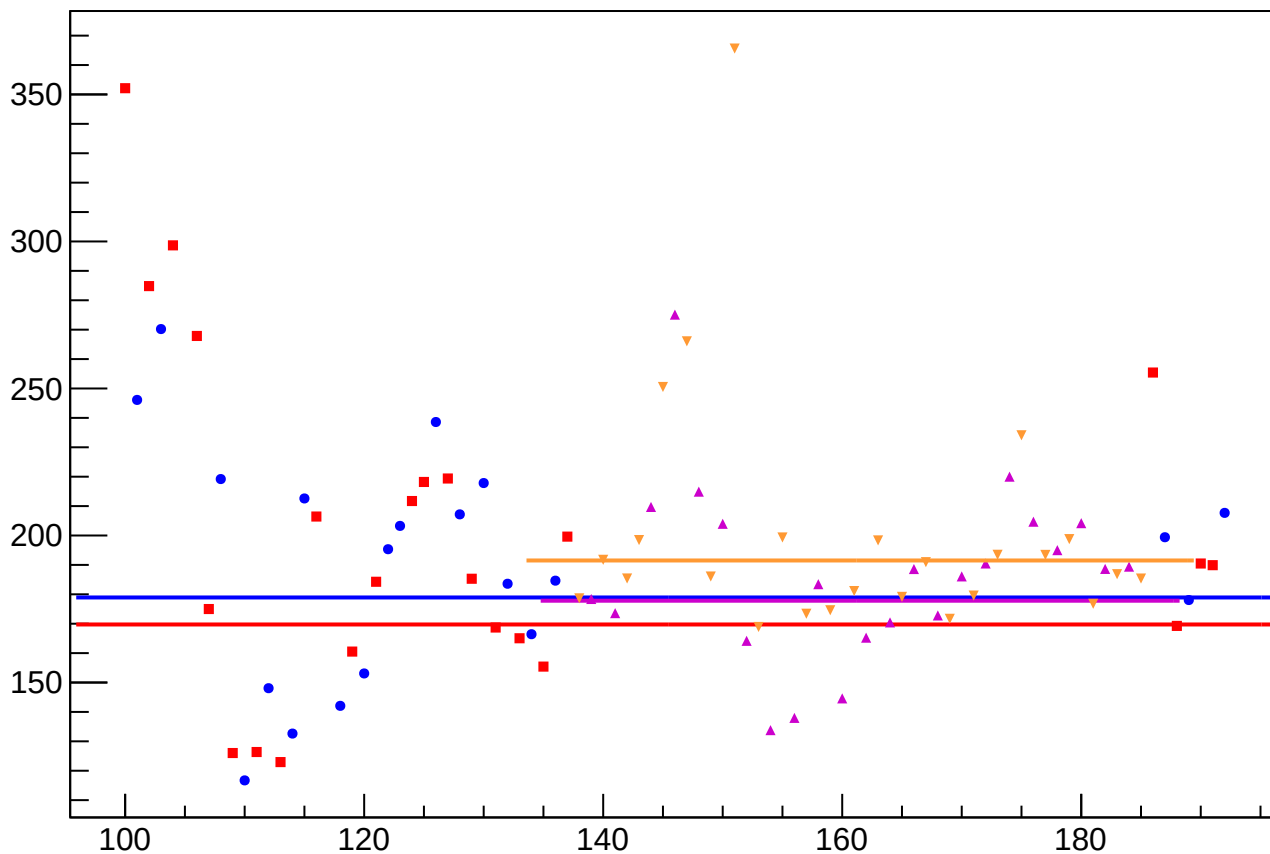
Right: 6317.766+/-43.699 χ^2/NDF : 114843.6/42

In: -6023.997+/-36.360 χ^2/NDF : 110680.2/42

Out: -3943.354+/-36.098 χ^2/NDF : 185085.0/47

All: -4976.167+/-25.617 χ^2/NDF : 297414.2/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.926+/-0.046 χ^2/NDF : 730087.3/19

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 169.740+/-0.042 χ^2/NDF : 1030898.6/22

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

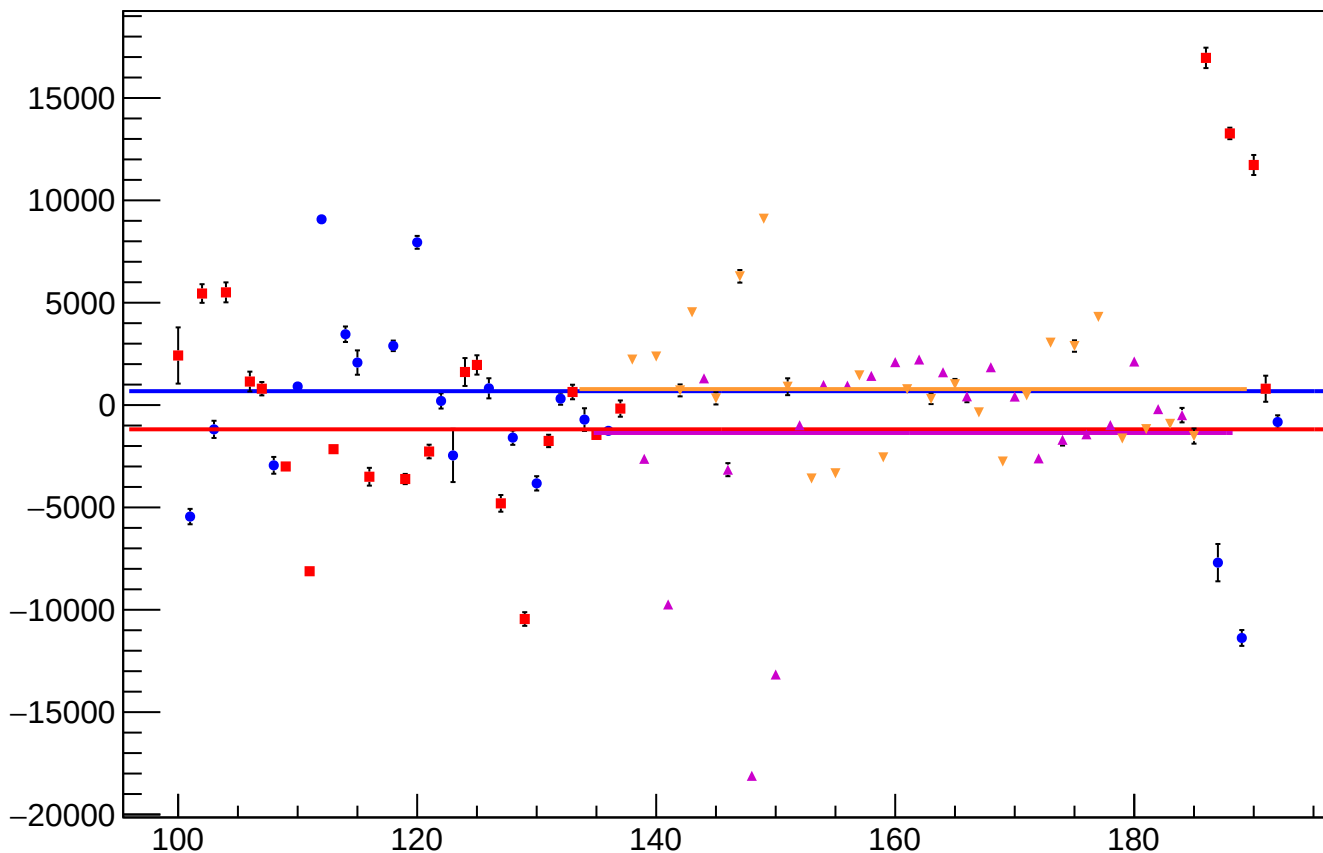
Right: 173.925+/-0.031 χ^2/NDF : 1782905.3/42

In: 178.170+/-0.026 χ^2/NDF : 1592979.8/42

Out: 183.420+/-0.026 χ^2/NDF : 1927944.8/47

All: 180.814+/-0.018 χ^2/NDF : 3541926.4/90

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 678.890+/-73.629 χ^2/NDF : 3787.8/19

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -1184.892+/-66.320 χ^2/NDF : 7663.3/22

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

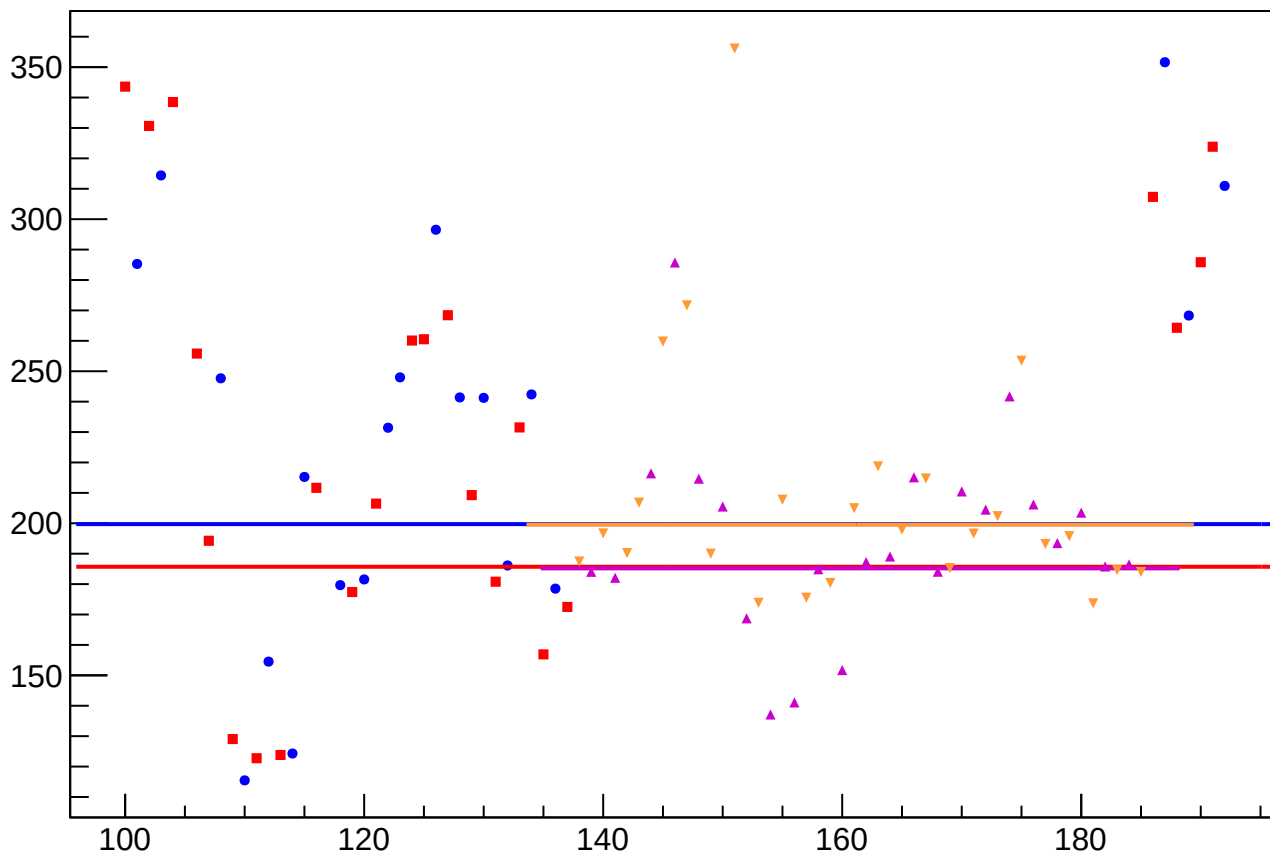
Right: -350.068+/-49.277 χ^2/NDF : 11804.9/42

In: -793.255+/-38.894 χ^2/NDF : 15975.2/42

Out: 114.582+/-38.594 χ^2/NDF : 12504.6/47

All: -335.821+/-27.396 χ^2/NDF : 28754.3/90

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.724 ± 0.052 $\chi^2/\text{NDF}: 1360276.6/19$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 185.706 ± 0.047 $\chi^2/\text{NDF}: 1793799.2/22$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

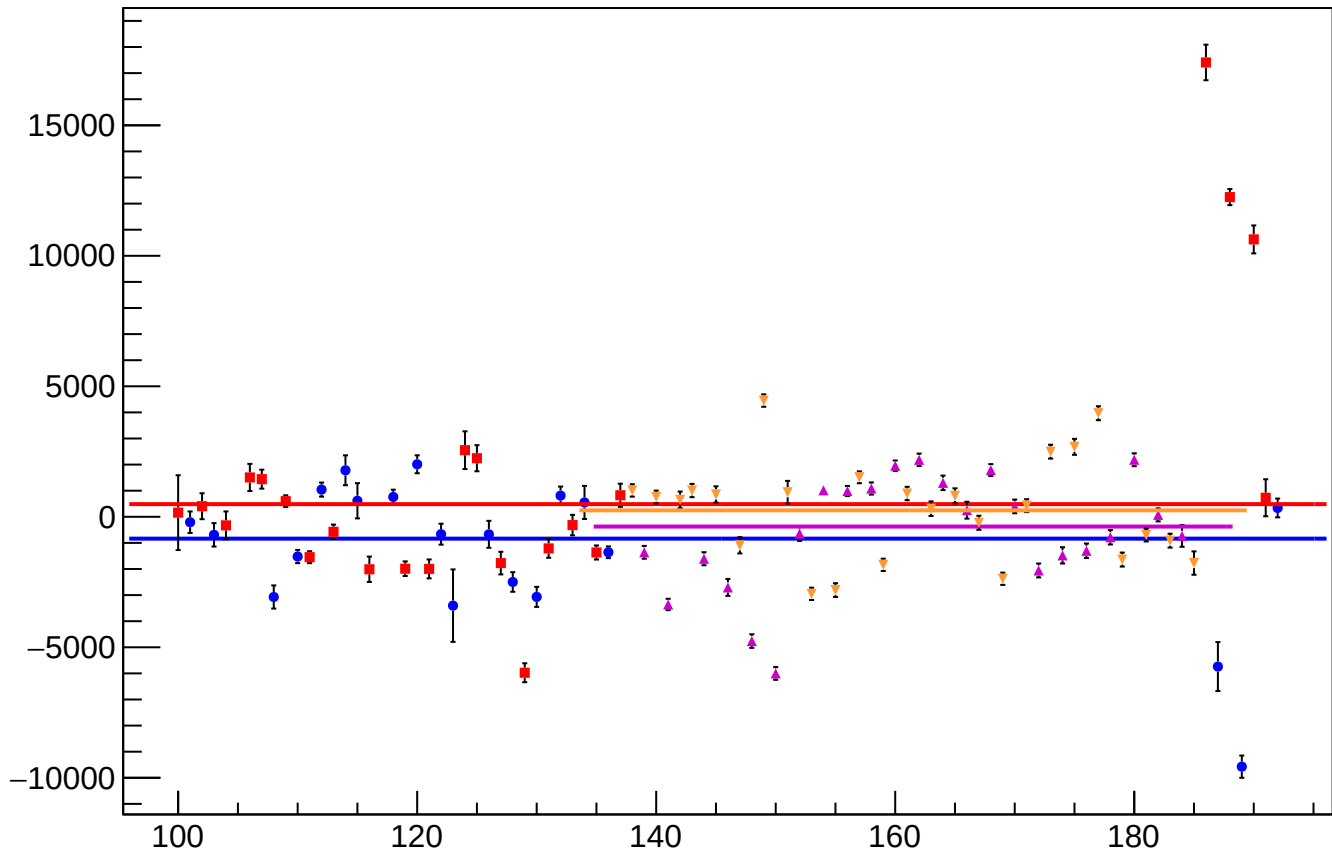
Right: 191.985 ± 0.035 $\chi^2/\text{NDF}: 3194099.6/42$

In: 189.232 ± 0.028 $\chi^2/\text{NDF}: 2299366.9/42$

Out: 194.860 ± 0.027 $\chi^2/\text{NDF}: 2580762.2/47$

All: 192.068 ± 0.019 $\chi^2/\text{NDF}: 4901229.6/90$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -836.936+/-84.156 χ^2/NDF : 759.4/19

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 485.106+/-77.607 χ^2/NDF : 3129.5/22

Left In: -374.122+/-52.049 χ^2/NDF :1801.0/22

Left: -72.006+/-37.325 χ^2/NDF : 3225.5/47

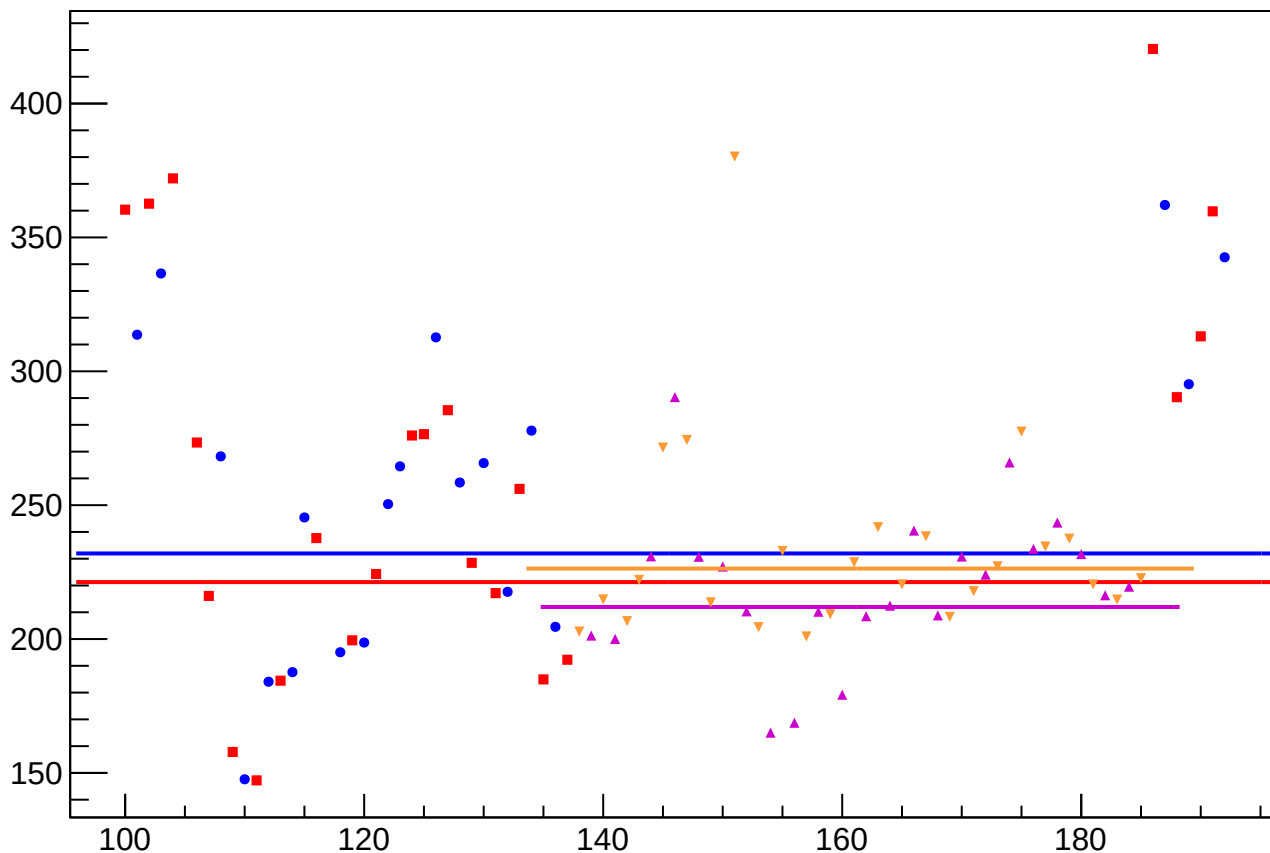
Right: -122.481+/-57.051 χ^2/NDF : 4022.3/42

In: -502.175+/-44.267 χ^2/NDF :2582.3/42

Out: 324.382+/-44.078 χ^2/NDF :4490.9/47

All: -87.135+/-31.234 χ^2/NDF : 7248.3/90

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 231.969 ± 0.060 $\chi^2/\text{NDF}: 945257.7/19$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 221.272 ± 0.055 $\chi^2/\text{NDF}: 1327158.5/22$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

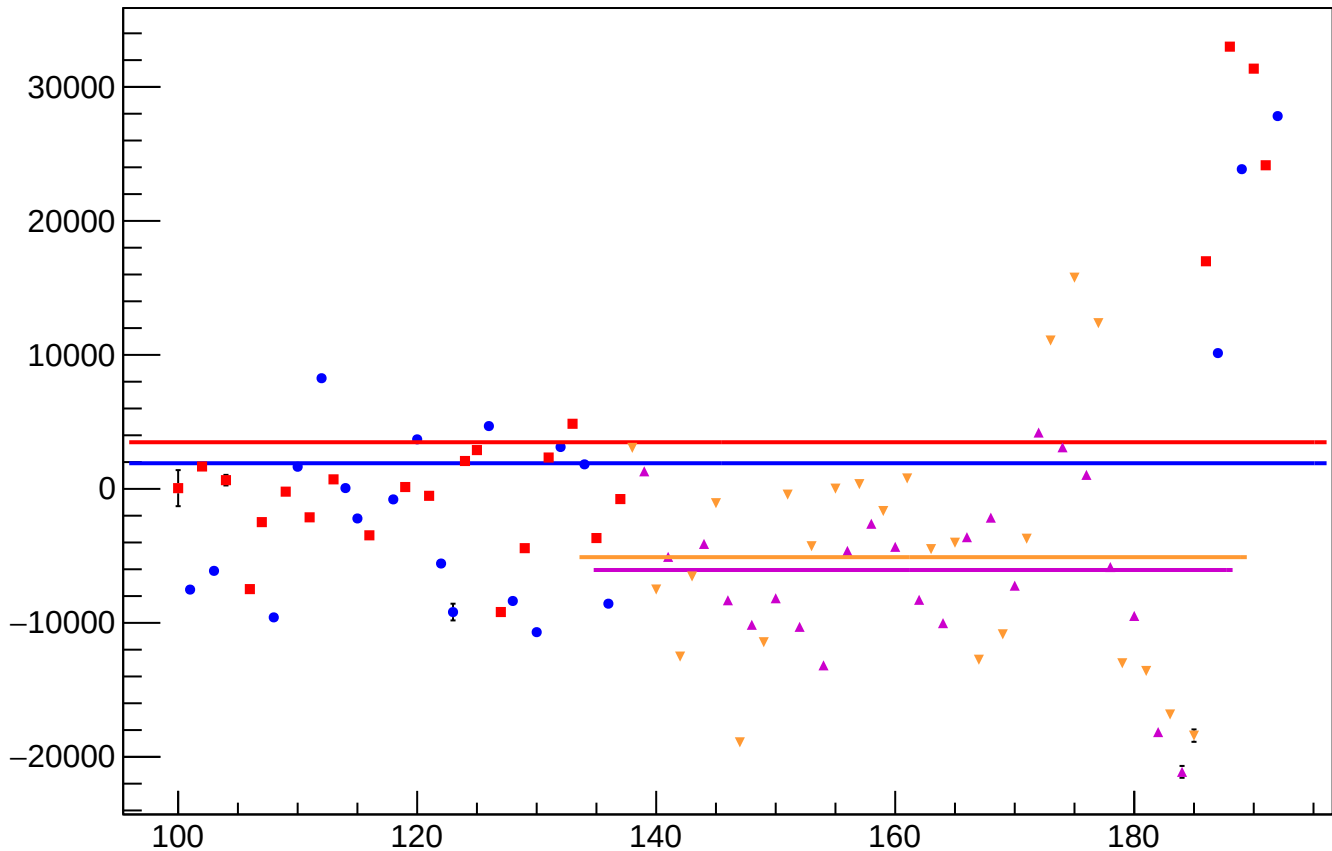
Right: 226.188 ± 0.040 $\chi^2/\text{NDF}: 2289880.1/42$

In: 217.504 ± 0.031 $\chi^2/\text{NDF}: 1611300.5/42$

Out: 224.693 ± 0.031 $\chi^2/\text{NDF}: 1853936.5/47$

All: 221.114 ± 0.022 $\chi^2/\text{NDF}: 3491724.9/90$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1914.132+/-43.764 χ^2/NDF : 66286.8/19

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 3481.337+/-41.177 χ^2/NDF : 79485.4/22

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

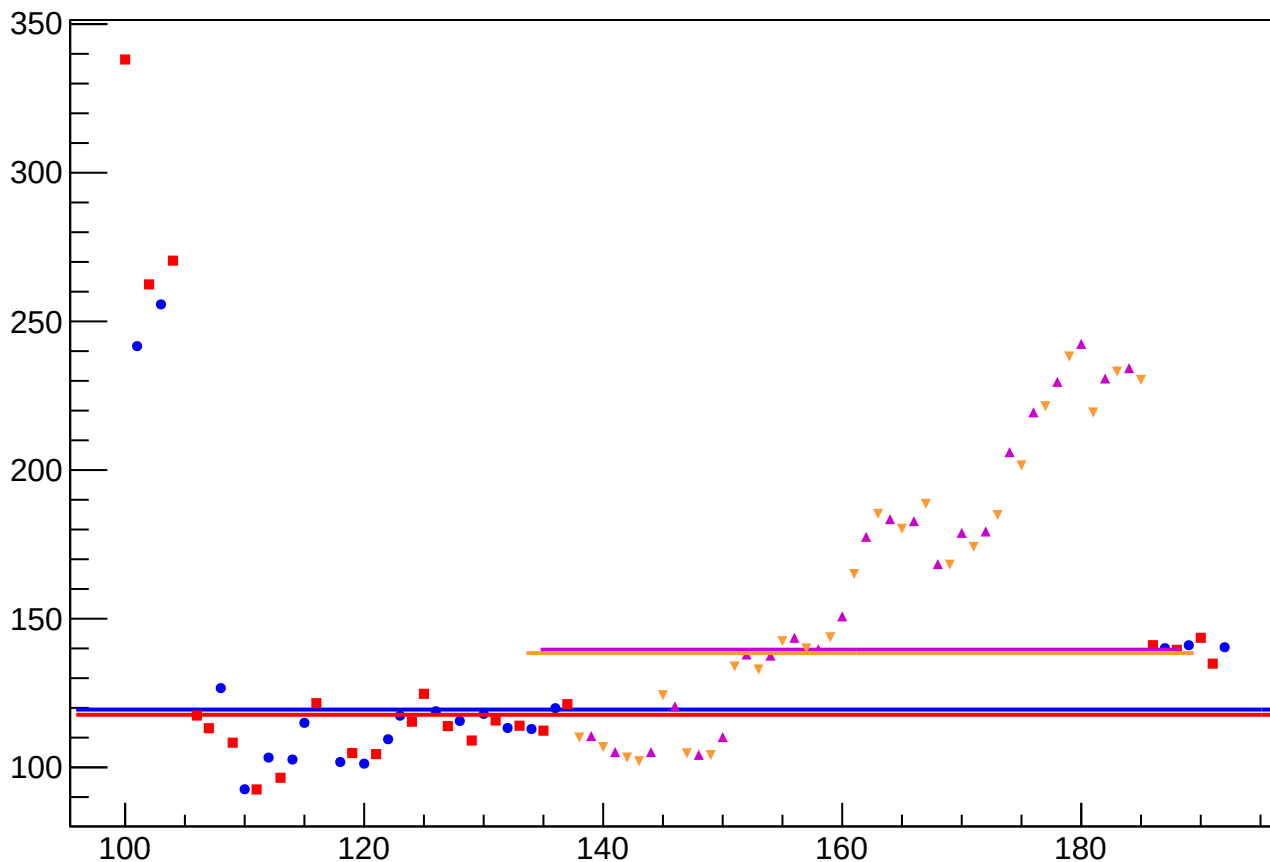
Right: 2745.412+/-29.990 χ^2/NDF : 146452.4/42

In: -2945.642+/-27.333 χ^2/NDF : 104094.0/42

Out: -1654.592+/-26.081 χ^2/NDF : 159859.4/47

All: -2269.877+/-18.869 χ^2/NDF : 265121.3/9

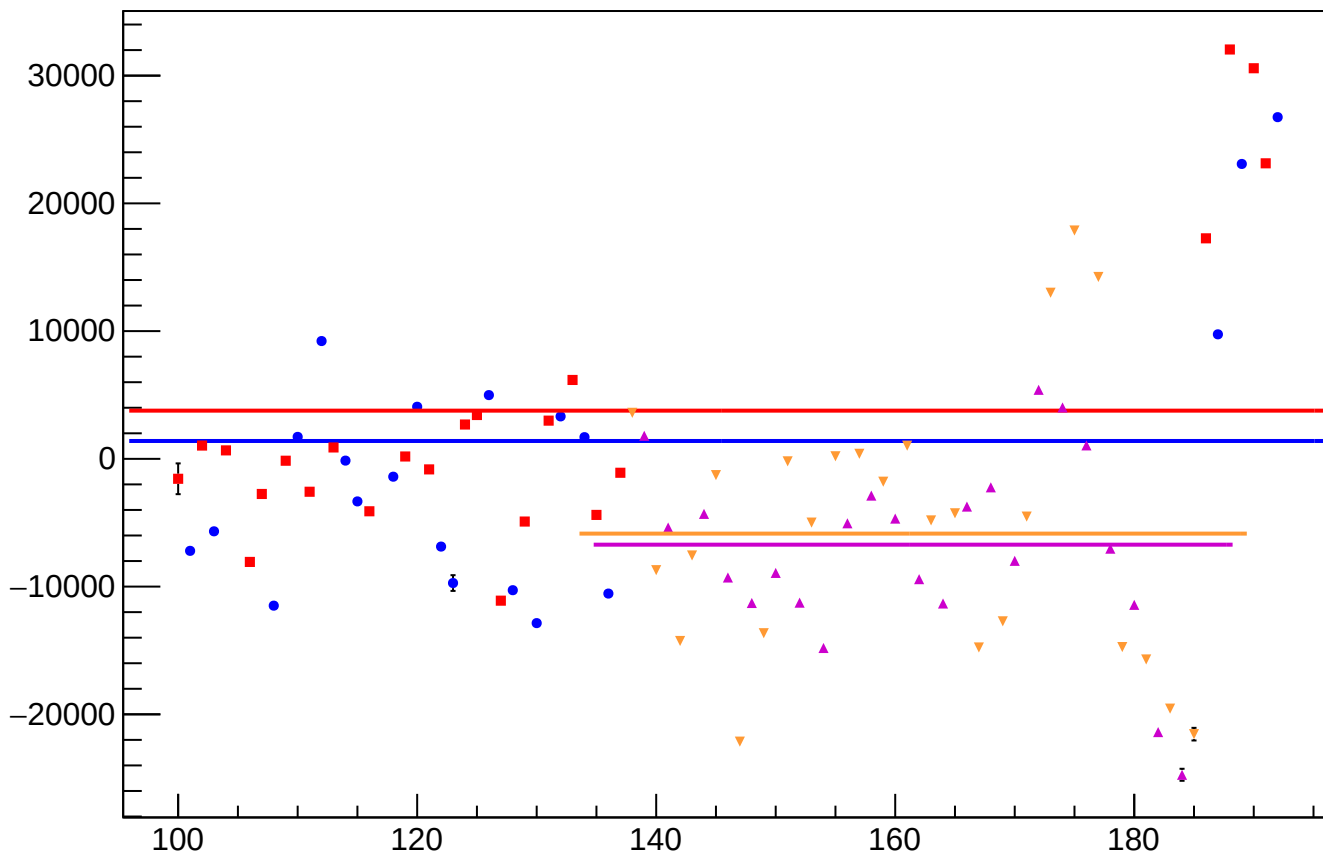
asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 119.434+/-0.031 χ^2/NDF : 824616.6/19
 Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24
 Right Out: 117.693+/-0.029 χ^2/NDF : 908504.4/22
 Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47
 Right: 118.511+/-0.021 χ^2/NDF : 1734799.6/42
 In: 131.720+/-0.019 χ^2/NDF : 3496715.8/42
 Out: 130.114+/-0.018 χ^2/NDF : 3761845.4/47
 All: 130.880+/-0.013 χ^2/NDF : 7262175.5/90

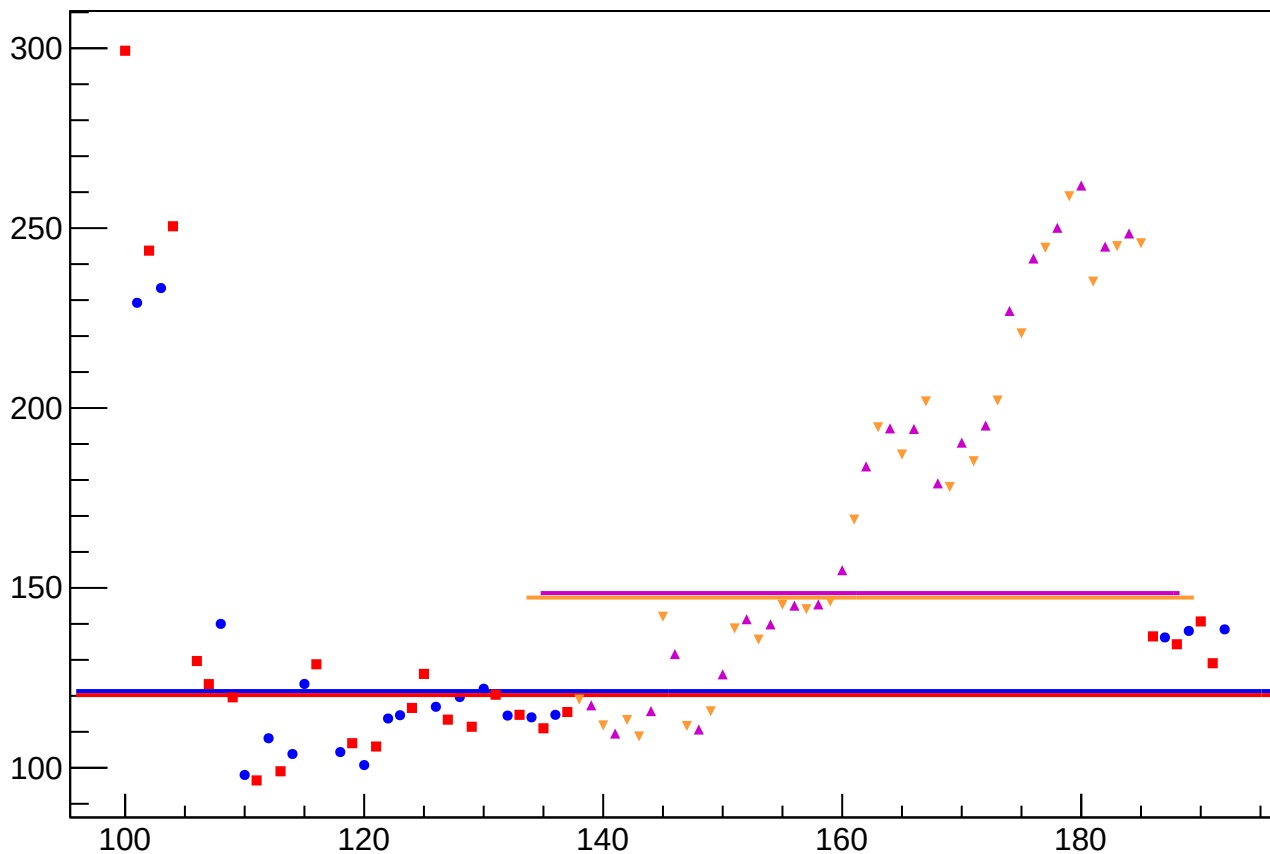
asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1398.755+/-44.390 χ^2/NDF : 71278.6/19
 Left Out: -5852.544+/-35.880 χ^2/NDF : 63411.4/24
 Right Out: 3774.129+/-41.979 χ^2/NDF : 82060.2/22
 Left In: -6718.475+/-37.276 χ^2/NDF : 20934.3/22

Left: -6268.993+/-25.850 χ^2/NDF : 84625.8/47
 Right: 2652.690+/-30.500 χ^2/NDF : 154850.4/42
 In: -3361.637+/-28.546 χ^2/NDF : 111823.4/42
 Out: -1788.721+/-27.275 χ^2/NDF : 175860.3/47
 All: -2539.382+/-19.720 χ^2/NDF : 289270.9/99

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 121.324+/-0.031 χ^2/NDF : 689879.9/19

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 120.212+/-0.030 χ^2/NDF : 746747.5/22

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

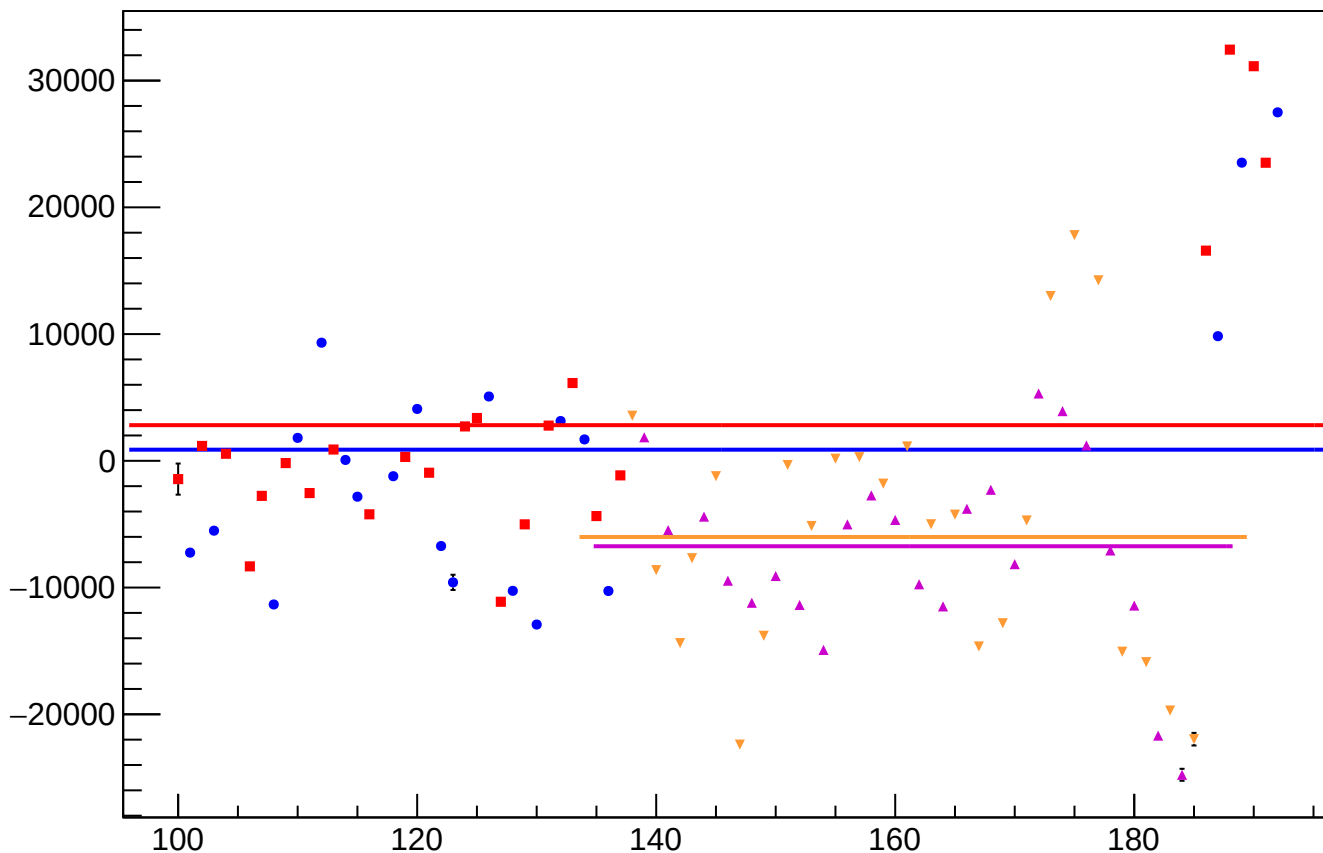
Right: 120.737+/-0.022 χ^2/NDF : 1437290.3/42

In: 137.302+/-0.020 χ^2/NDF : 3524903.0/42

Out: 135.875+/-0.019 χ^2/NDF : 3740270.7/47

All: 136.556+/-0.014 χ^2/NDF : 7267786.1/90

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 879.118 $\pm$ 43.269 χ^2/NDF : 69833.5/19

Left Out: -6009.913 $\pm$ 35.082 χ^2/NDF : 67852.2/24

Right Out: 2813.357 $\pm$ 41.018 χ^2/NDF : 75777.8/22

Left In: -6740.666 $\pm$ 36.379 χ^2/NDF : 22071.8/22

Left: -6362.031 $\pm$ 25.253 χ^2/NDF : 90133.1/47

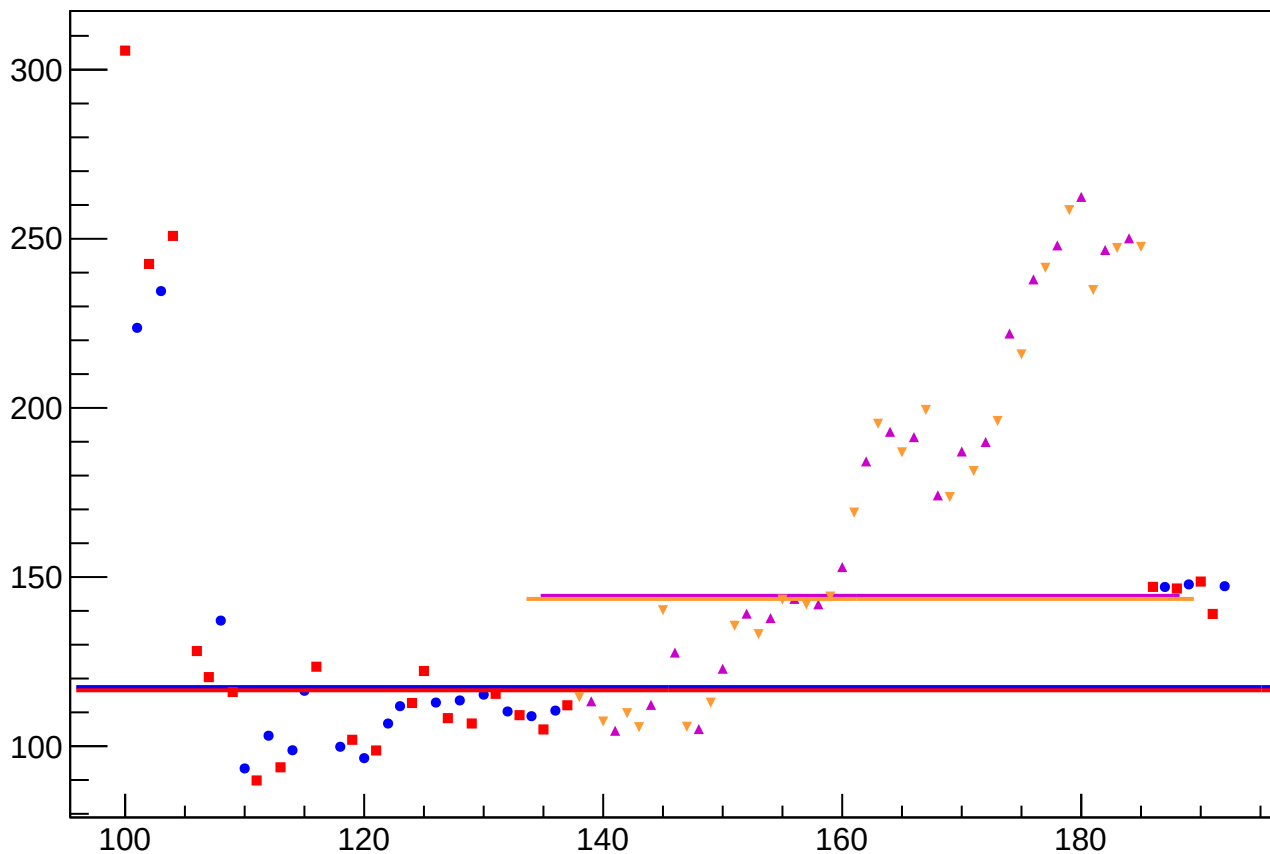
Right: 1897.844 $\pm$ 29.768 χ^2/NDF : 146663.8/42

In: -3584.960 $\pm$ 27.845 χ^2/NDF : 110074.2/42

Out: -2282.327 $\pm$ 26.661 χ^2/NDF : 170352.7/47

All: -2905.355 $\pm$ 19.257 χ^2/NDF : 281568.7/9

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 117.468+/-0.031 χ^2/NDF : 825274.2/19

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 116.525+/-0.029 χ^2/NDF : 943279.1/22

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

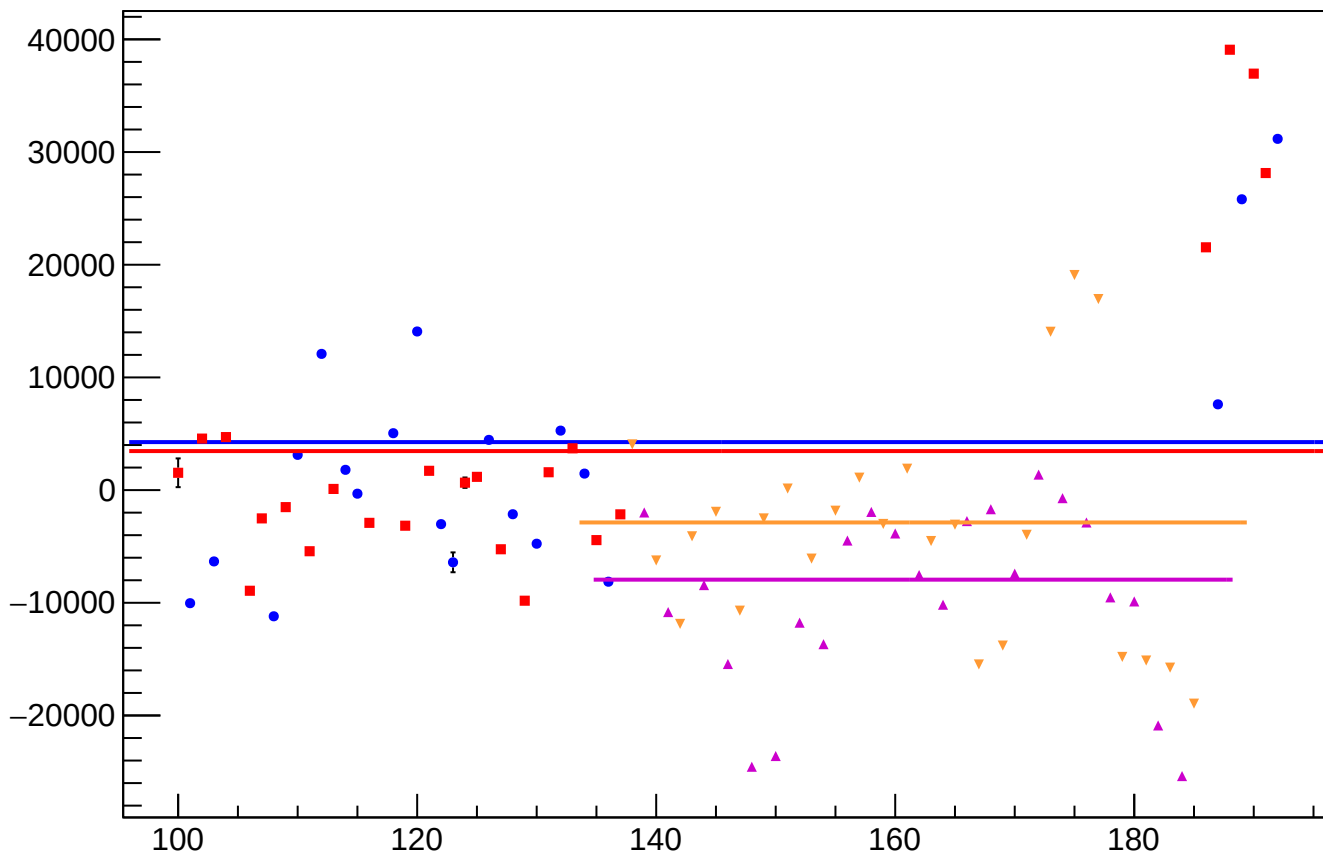
Right: 116.971+/-0.021 χ^2/NDF : 1769053.5/42

In: 133.269+/-0.020 χ^2/NDF : 3867506.1/42

Out: 132.121+/-0.019 χ^2/NDF : 4148762.3/47

All: 132.670+/-0.014 χ^2/NDF : 8018041.6/90

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 4260.834+/-52.156 χ^2/NDF : 51425.3/19

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 3463.420+/-49.550 χ^2/NDF : 75457.5/22

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

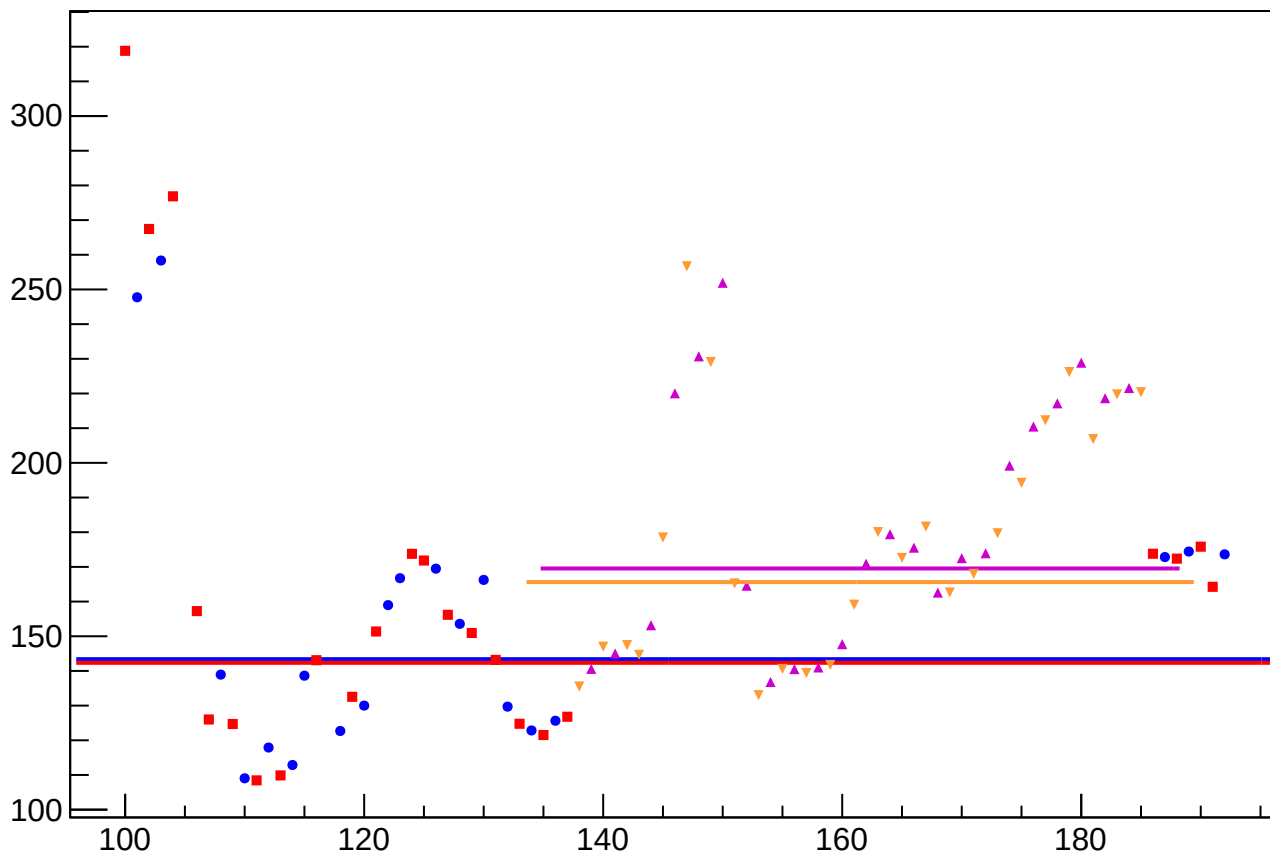
Right: 3841.713+/-35.923 χ^2/NDF : 127005.6/42

In: -3182.920+/-32.582 χ^2/NDF : 108706.3/42

Out: -410.747+/-30.878 χ^2/NDF : 131872.1/47

All: -1722.469+/-22.412 χ^2/NDF : 244392.1/9

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 143.389 ± 0.037 $\chi^2/\text{NDF}: 775869.4/19$

Left Out: 165.616 ± 0.028 $\chi^2/\text{NDF}: 1144779.3/24$

Right Out: 142.342 ± 0.035 $\chi^2/\text{NDF}: 884755.7/22$

Left In: 169.542 ± 0.030 $\chi^2/\text{NDF}: 1159241.9/22$

Left: 167.471 ± 0.020 $\chi^2/\text{NDF}: 2313359.6/47$

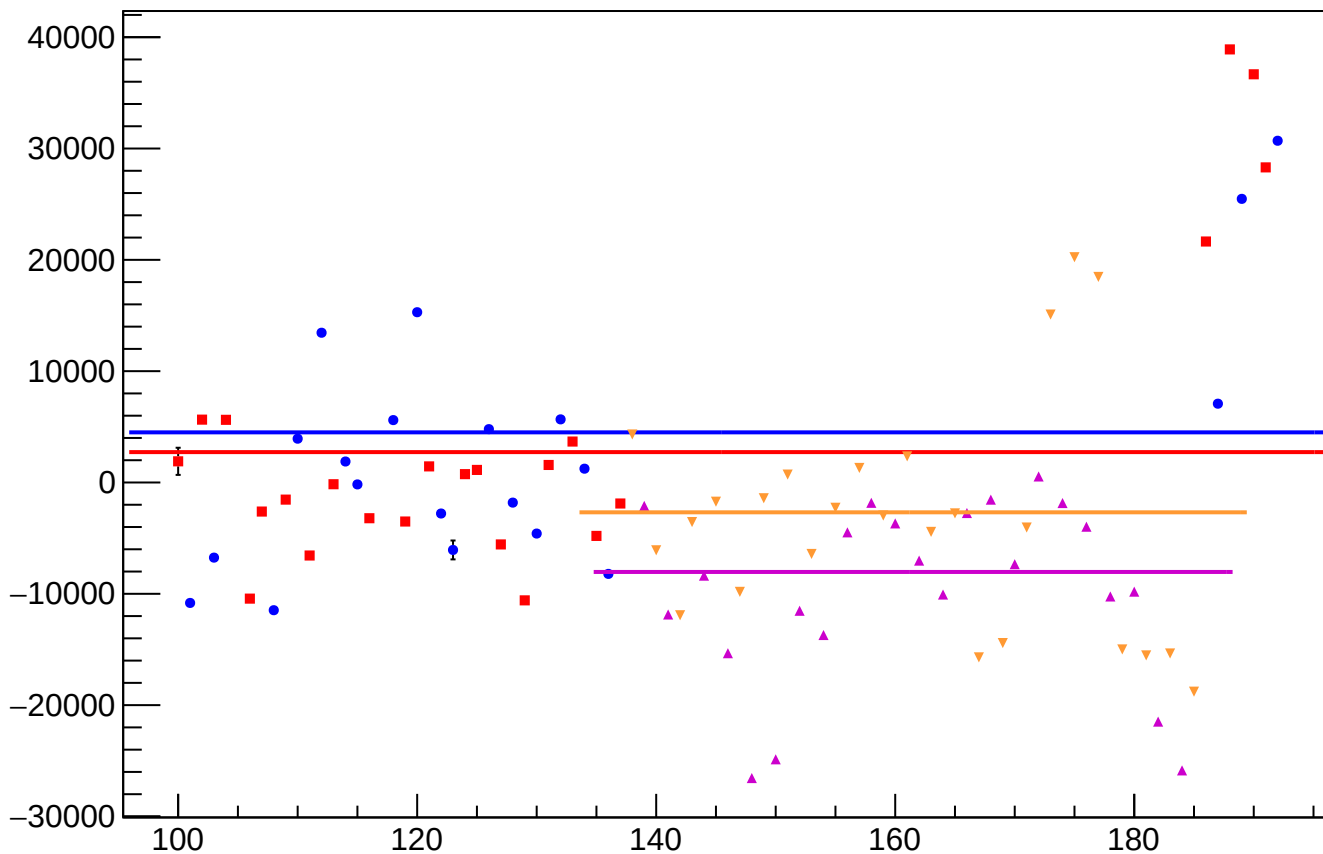
Right: 142.839 ± 0.025 $\chi^2/\text{NDF}: 1661048.5/42$

In: 159.335 ± 0.023 $\chi^2/\text{NDF}: 2241733.8/42$

Out: 156.578 ± 0.022 $\chi^2/\text{NDF}: 2299429.4/47$

All: 157.883 ± 0.016 $\chi^2/\text{NDF}: 4548709.9/90$

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 4503.210+/-43.588

χ^2/NDF : 71478.9/19

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right: 3560.868+/-29.851

χ^2/NDF : 178759.8/42

Right Out: 2728.502+/-40.965

χ^2/NDF : 106400.7/22

In: -2633.867+/-28.611

χ^2/NDF : 147848.3/42

Out: -340.735+/-26.941

χ^2/NDF : 173112.9/47

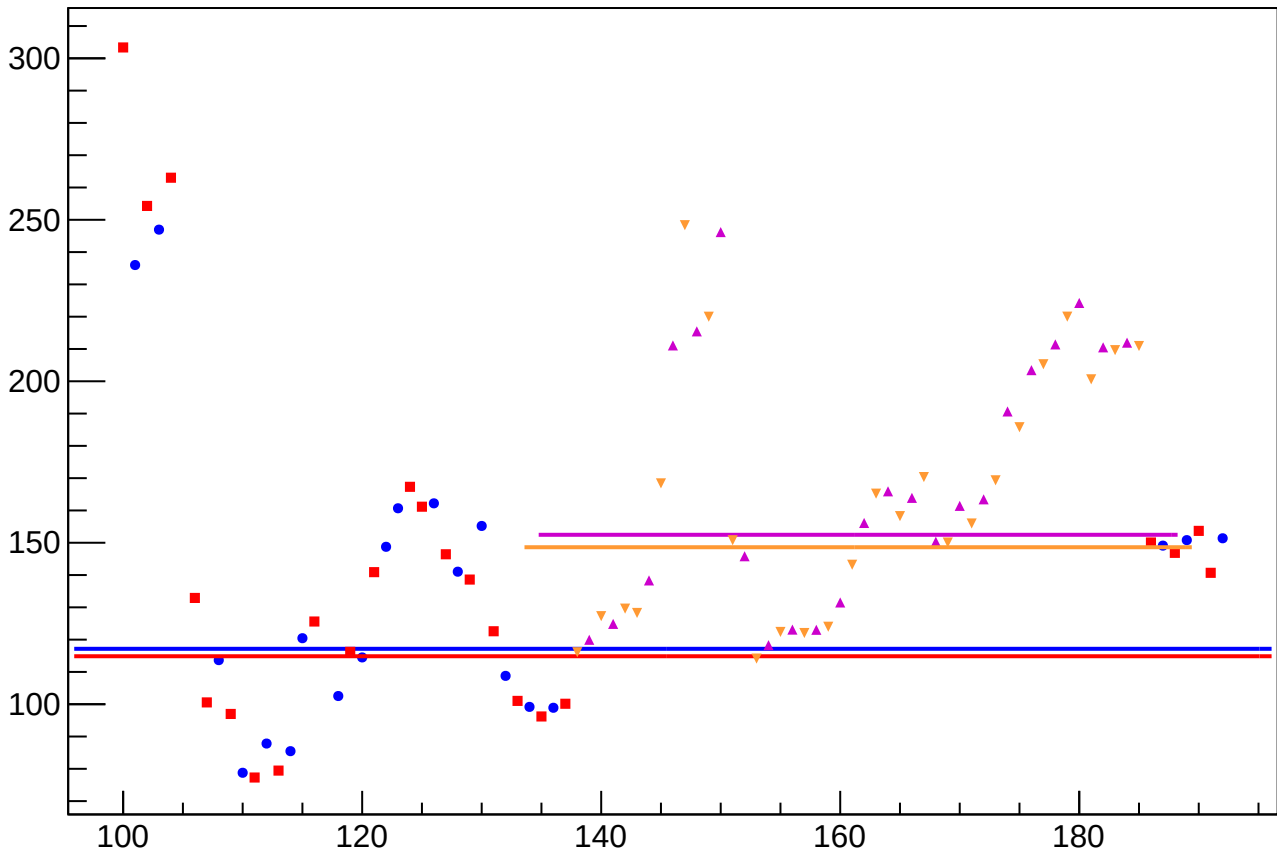
Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

All: -1418.447+/-19.614

χ^2/NDF : 324366.1/9

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 117.160 $\pm$ 0.031 χ^2 /NDF: 1298551.4/19

Left Out: 148.611 $\pm$ 0.025 χ^2 /NDF: 1685424.1/24

Right Out: 114.856 $\pm$ 0.029 χ^2 /NDF: 1481184.6/22

Left In: 152.463 $\pm$ 0.027 χ^2 /NDF: 1691517.7/22

Left: 150.424 $\pm$ 0.018 χ^2 /NDF: 3387867.0/47

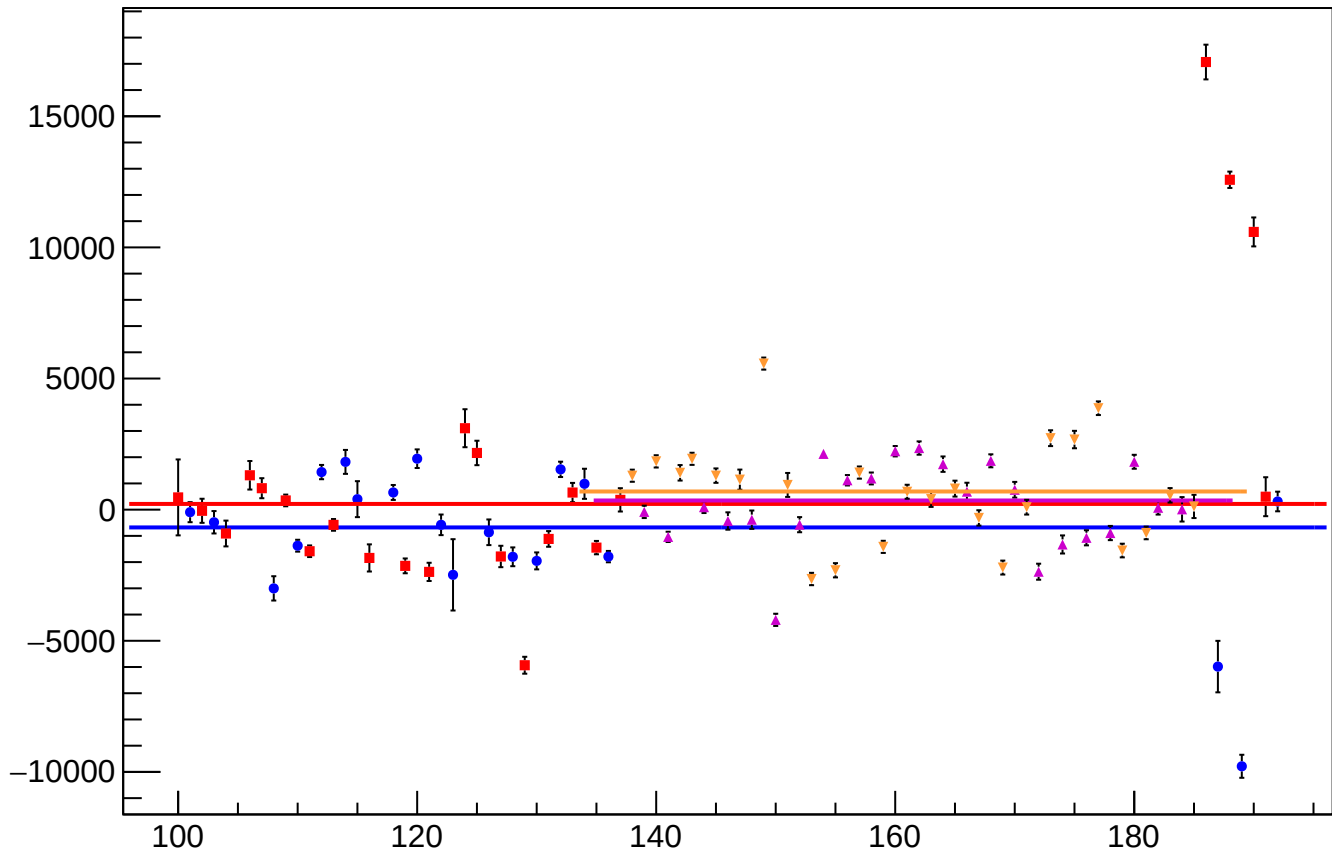
Right: 115.937 $\pm$ 0.021 χ^2 /NDF: 2782701.6/42

In: 137.253 $\pm$ 0.020 χ^2 /NDF: 3736805.5/42

Out: 134.011 $\pm$ 0.019 χ^2 /NDF: 3937176.4/47

All: 135.535 $\pm$ 0.014 χ^2 /NDF: 7687586.5/90

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -677.659 ± 80.317 $\chi^2/\text{NDF}: 791.9/19$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 218.132 ± 73.819 $\chi^2/\text{NDF}: 3292.5/22$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

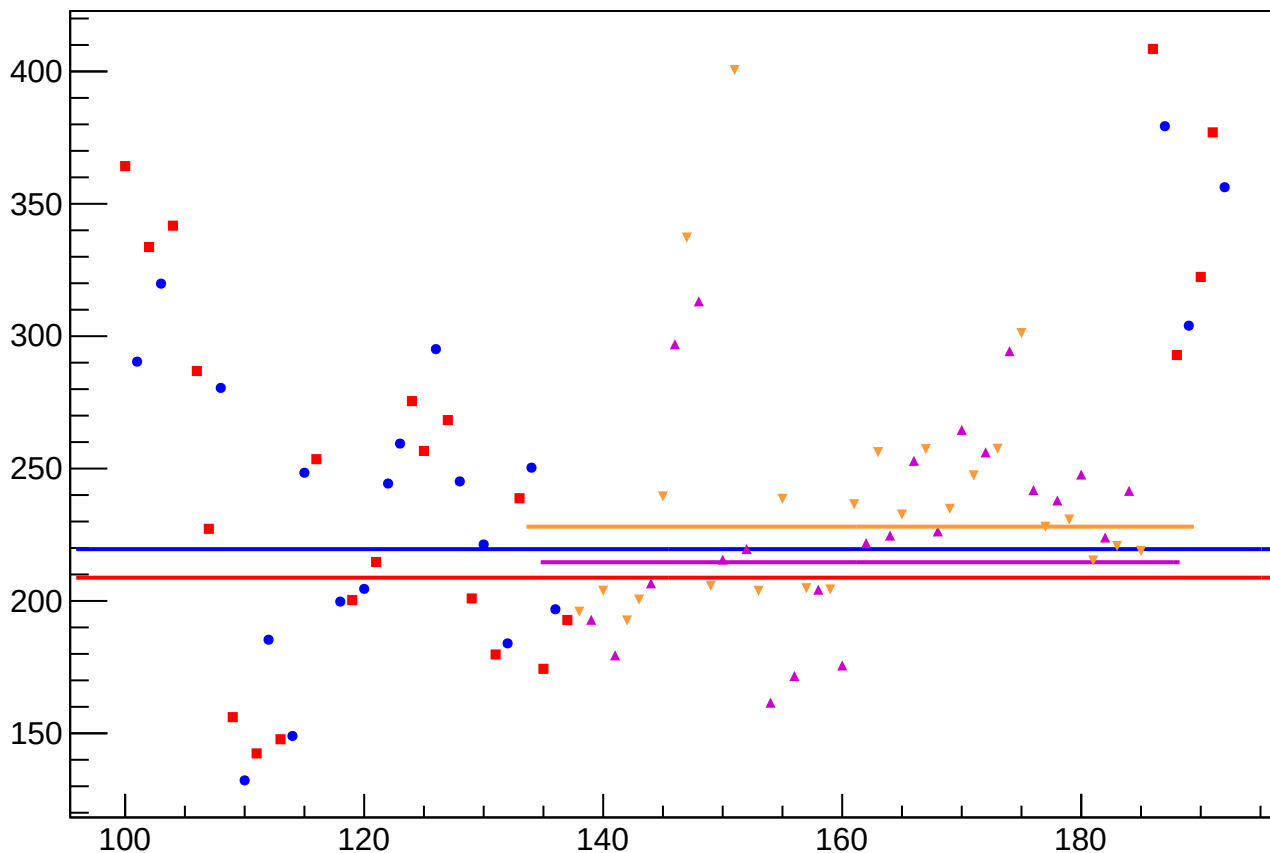
Right: -192.068 ± 54.350 $\chi^2/\text{NDF}: 4151.8/42$

In: 37.223 ± 44.291 $\chi^2/\text{NDF}: 1886.7/42$

Out: 526.257 ± 43.743 $\chi^2/\text{NDF}: 4741.4/47$

All: 284.787 ± 31.123 $\chi^2/\text{NDF}: 6689.8/90$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.564 ± 0.057 $\chi^2/\text{NDF}: 1125210.3/19$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 208.787 ± 0.052 $\chi^2/\text{NDF}: 1488703.3/22$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

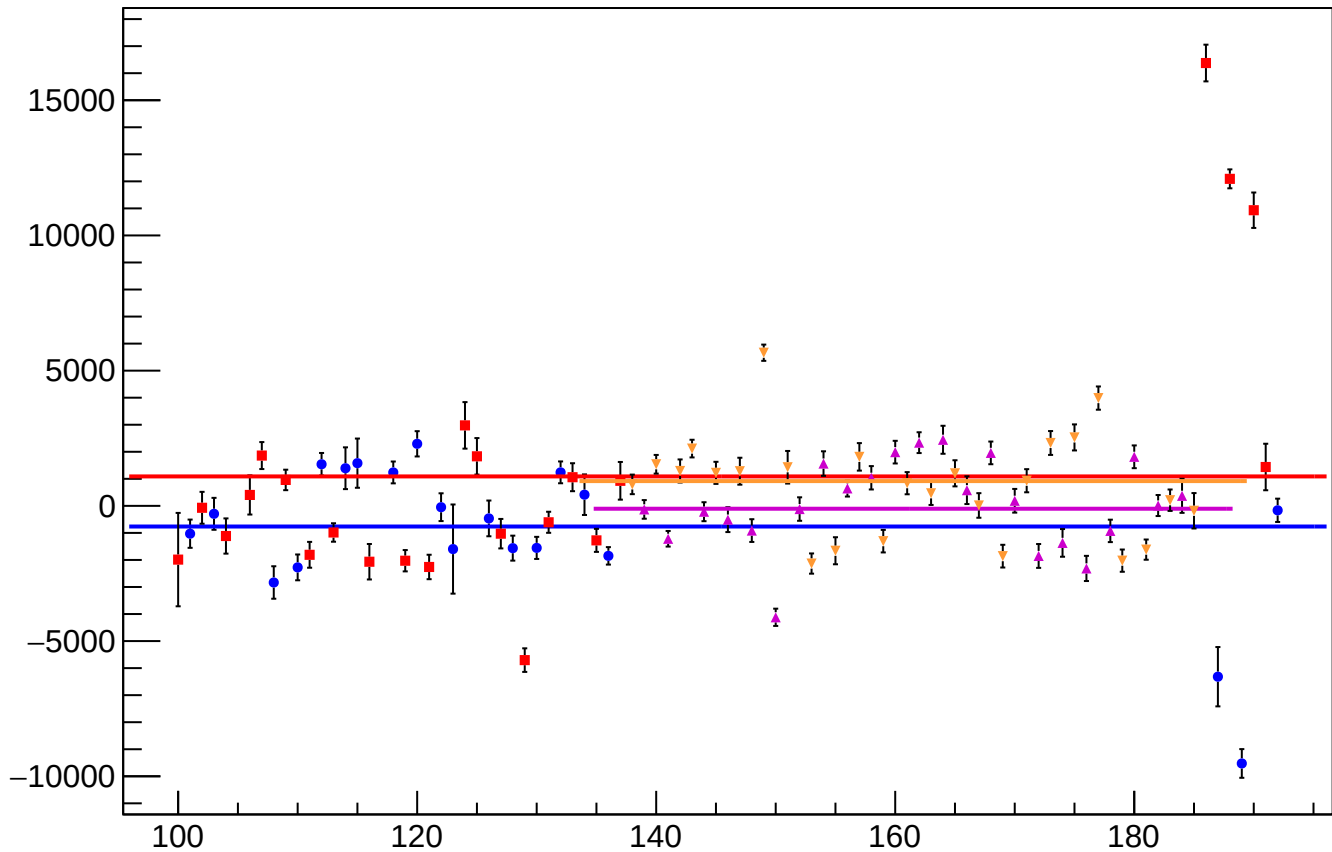
Right: 213.722 ± 0.038 $\chi^2/\text{NDF}: 2633430.1/42$

In: 216.128 ± 0.031 $\chi^2/\text{NDF}: 2156151.4/42$

Out: 221.293 ± 0.031 $\chi^2/\text{NDF}: 2403509.9/47$

All: 218.743 ± 0.022 $\chi^2/\text{NDF}: 4573430.3/90$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -763.693 ± 113.637 $\chi^2/\text{NDF}: 482.9/19$

Left Out: 915.968 ± 83.398 $\chi^2/\text{NDF}: 618.3/24$

Right Out: 1088.763 ± 105.899 $\chi^2/\text{NDF}: 2269.7/22$

Left In: -106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

Left: 410.985 ± 59.320 $\chi^2/\text{NDF}: 1082.8/47$

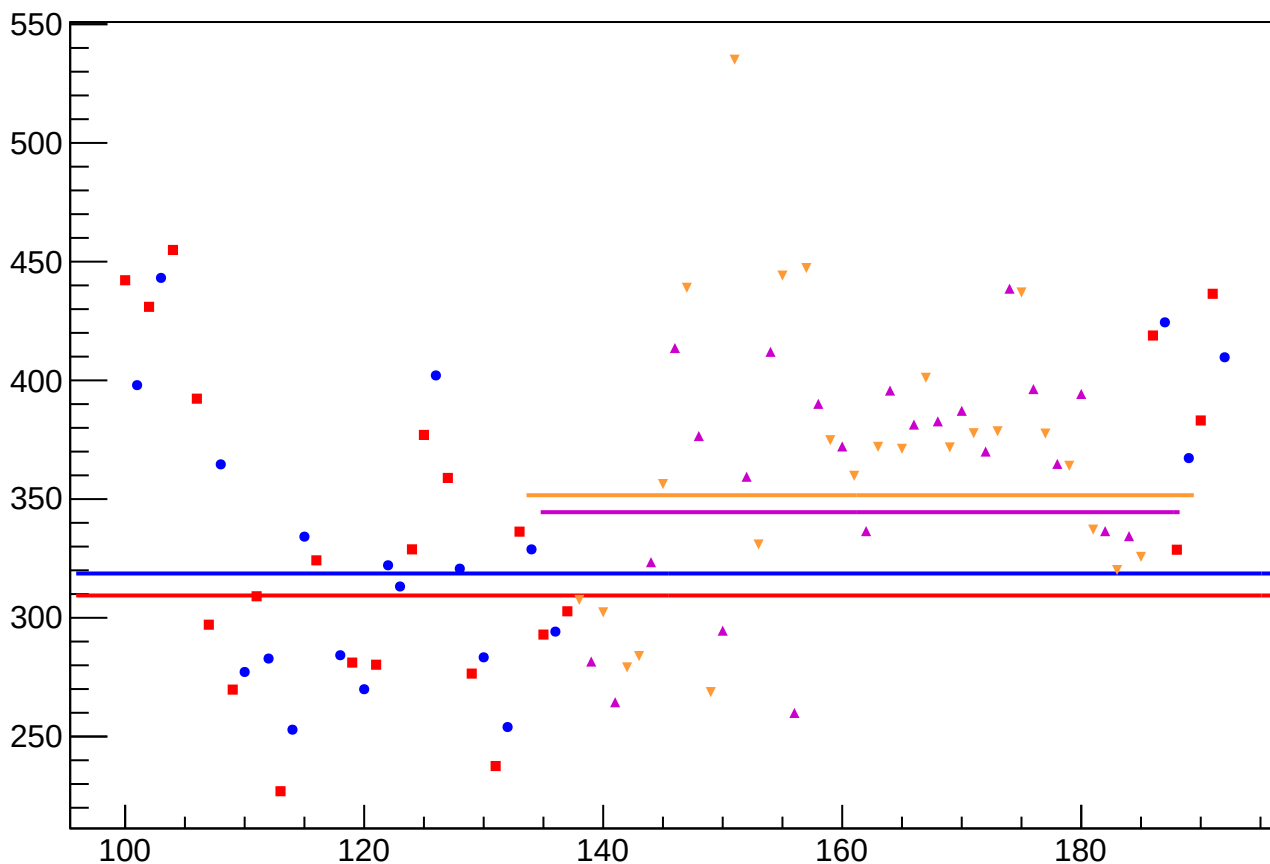
Right: 227.747 ± 77.473 $\chi^2/\text{NDF}: 2894.8/42$

In: -339.871 ± 67.752 $\chi^2/\text{NDF}: 894.7/42$

Out: 982.113 ± 65.520 $\chi^2/\text{NDF}: 2889.7/47$

All: 343.262 ± 47.099 $\chi^2/\text{NDF}: 3981.1/90$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 318.665 ± 0.080 χ^2/NDF : 462899.9/19

Left Out: 351.633 ± 0.059 χ^2/NDF : 907849.3/24

Right Out: 309.401 ± 0.075 χ^2/NDF : 635164.6/22

Left In: 344.491 ± 0.060 χ^2/NDF : 768885.4/22

Left: 348.104 ± 0.042 χ^2/NDF : 1683981.7/47

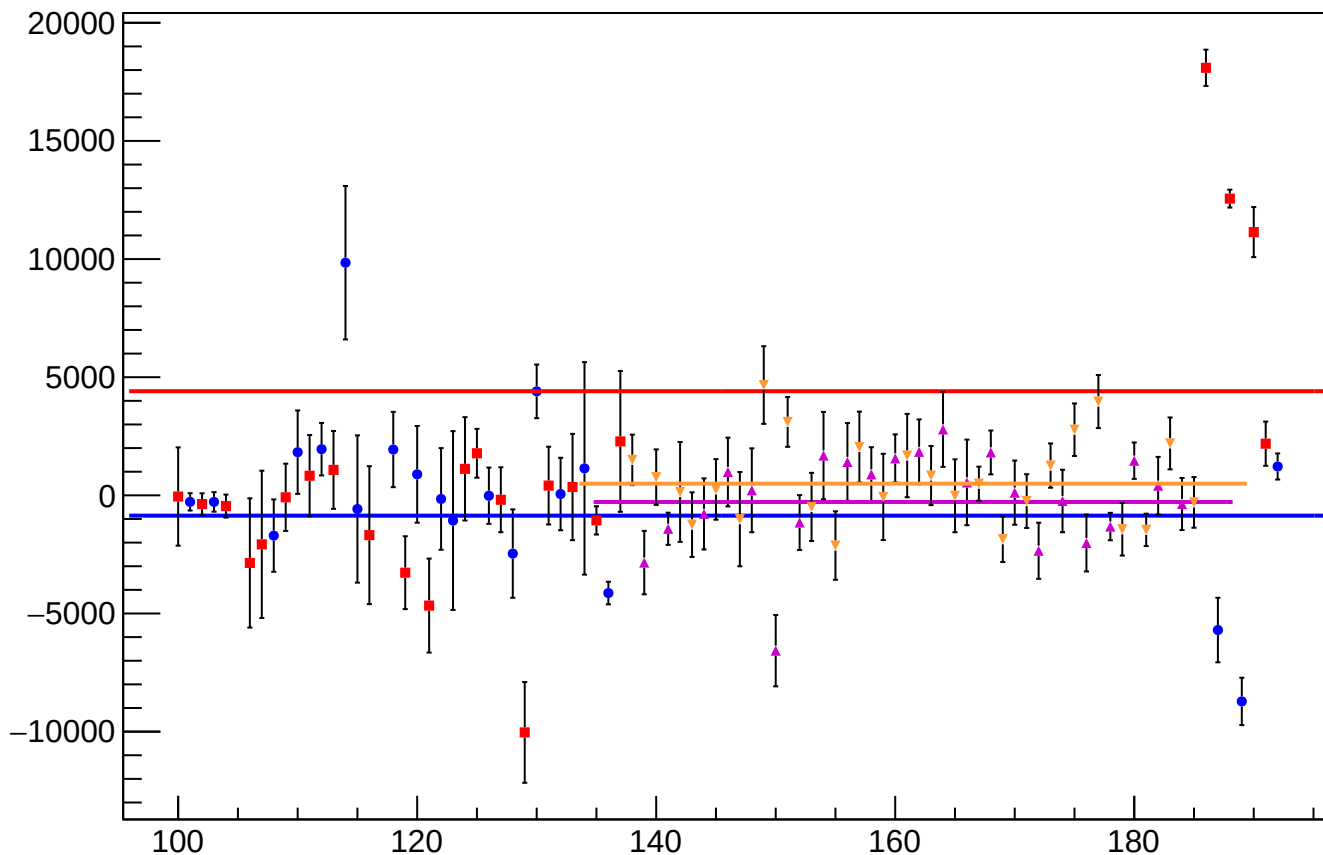
Right: 313.707 ± 0.055 χ^2/NDF : 1105178.7/42

In: 335.310 ± 0.048 χ^2/NDF : 1298364.0/42

Out: 335.467 ± 0.046 χ^2/NDF : 1739333.3/47

All: 335.391 ± 0.033 χ^2/NDF : 3037702.8/90

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -859.142 ± 191.107 $\chi^2/\text{NDF}: 186.8/19$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 4408.219 ± 190.345 $\chi^2/\text{NDF}: 1281.9/22$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

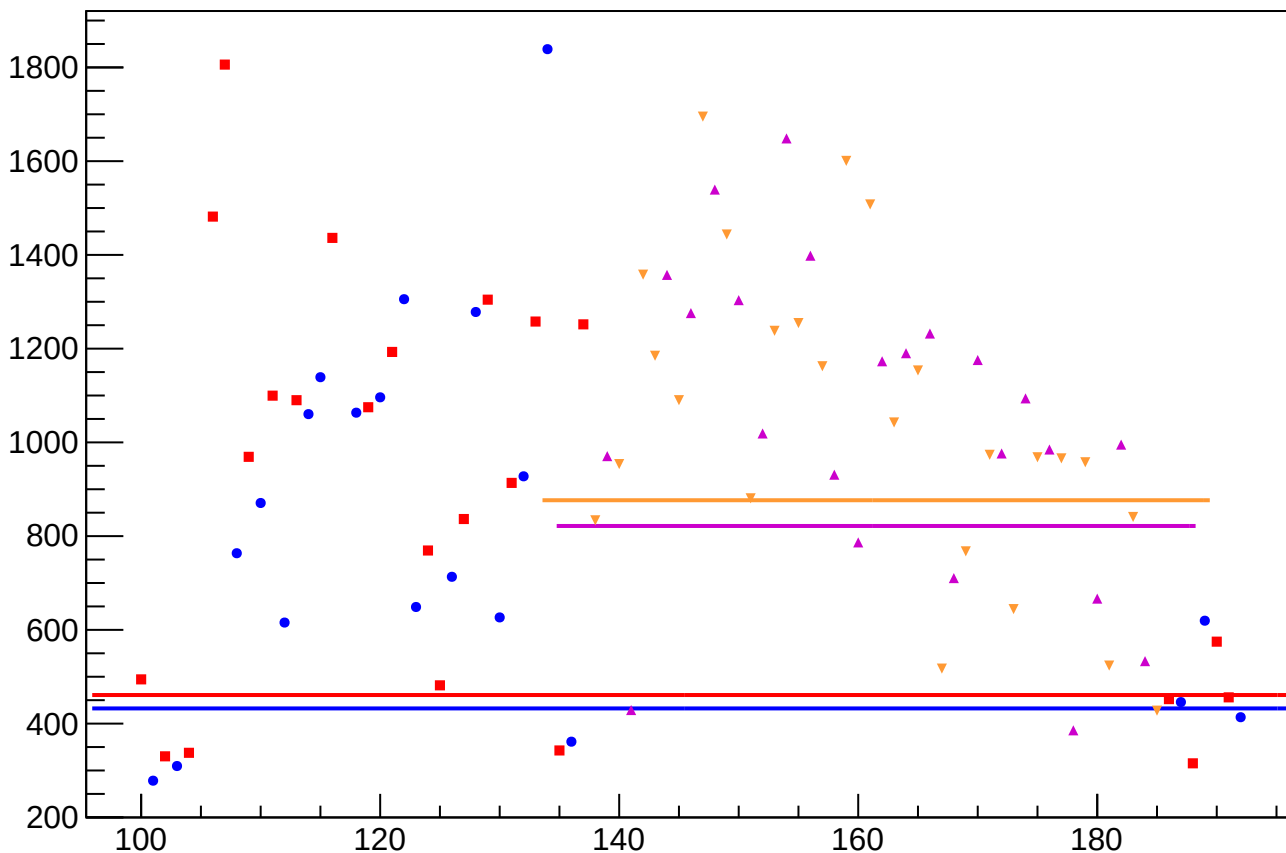
Right: 1785.062 ± 134.863 $\chi^2/\text{NDF}: 1850.1/42$

In: -625.363 ± 147.519 $\chi^2/\text{NDF}: 247.8/42$

Out: 2826.186 ± 146.914 $\chi^2/\text{NDF}: 1509.1/47$

All: 1107.501 ± 104.097 $\chi^2/\text{NDF}: 2031.7/90$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 432.388 $\pm$ 0.135 χ^2/NDF : 2936981.8/19

Left Out: 876.560 $\pm$ 0.163 χ^2/NDF :3434698.7/24

Right Out: 460.985 $\pm$ 0.135 χ^2/NDF : 4022907.3/22

Left In: 821.657 $\pm$ 0.164 χ^2/NDF :4443094.2/22

Left: 849.226 $\pm$ 0.116 χ^2/NDF : 7934012.4/47

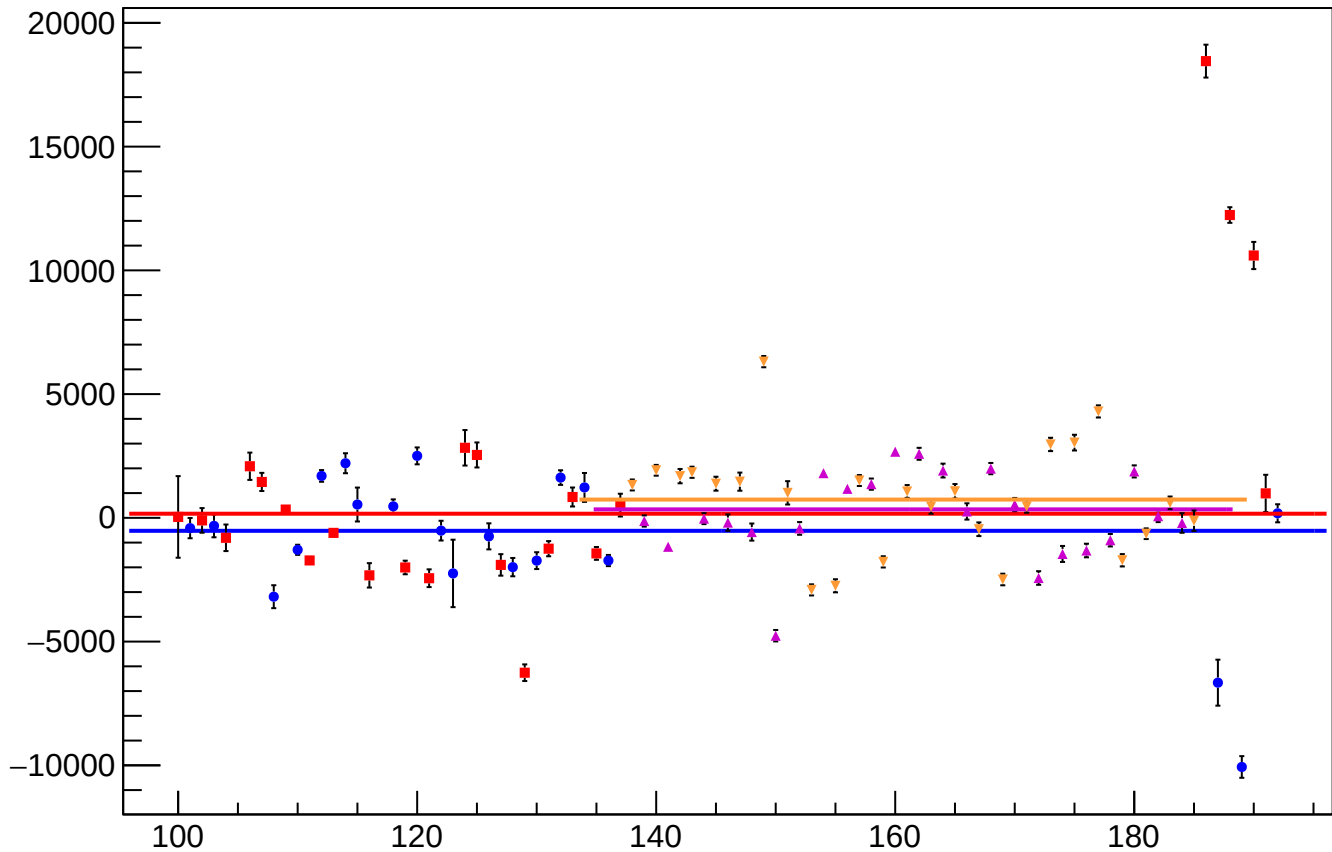
Right: 446.744 $\pm$ 0.095 χ^2/NDF : 6982370.2/42

In: 589.710 $\pm$ 0.104 χ^2/NDF :10733709.6/42

Out: 628.994 $\pm$ 0.104 χ^2/NDF :11311754.4/47

All: 609.433 $\pm$ 0.074 χ^2/NDF : 22116669.8/90

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -524.189 ± 78.896 χ^2/NDF : 917.5/19

Left Out: 738.847 ± 51.649 χ^2/NDF : 1935.2/24

Right Out: 166.968 ± 71.670 χ^2/NDF : 3345.7/22

Left In: 342.465 ± 50.044 χ^2/NDF : 1254.9/22

Left: 534.403 ± 35.941 χ^2/NDF : 3220.5/47

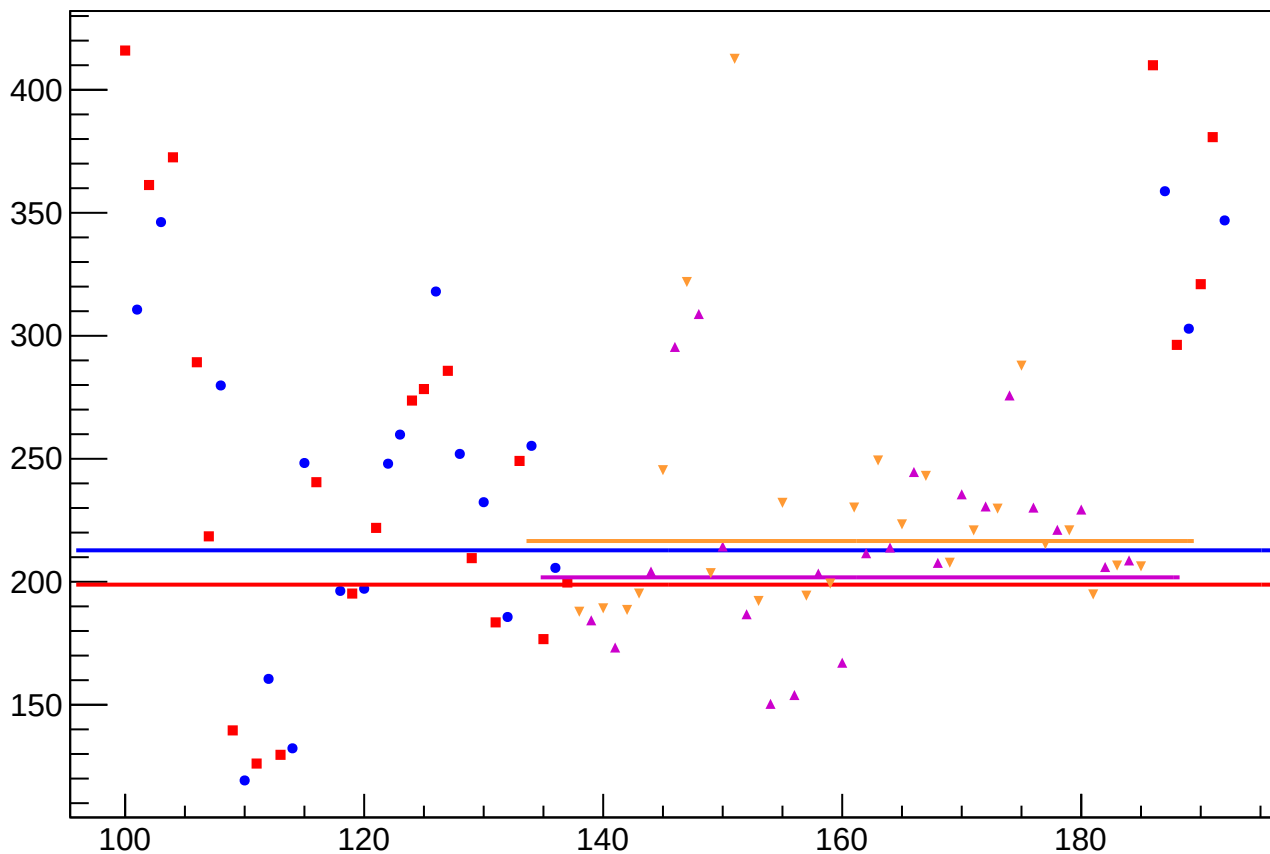
Right: -145.517 ± 53.050 χ^2/NDF : 4305.2/42

In: 93.815 ± 42.260 χ^2/NDF : 2258.4/42

Out: 543.370 ± 41.902 χ^2/NDF : 5322.8/47

All: 320.504 ± 29.755 χ^2/NDF : 7638.3/90

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 212.789 $\pm$ 0.056 χ^2/NDF : 1493478.7/19

Left Out: 216.574 $\pm$ 0.037 χ^2/NDF :886214.1/24

Right Out: 198.841 $\pm$ 0.051 χ^2/NDF : 2051221.9/22

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

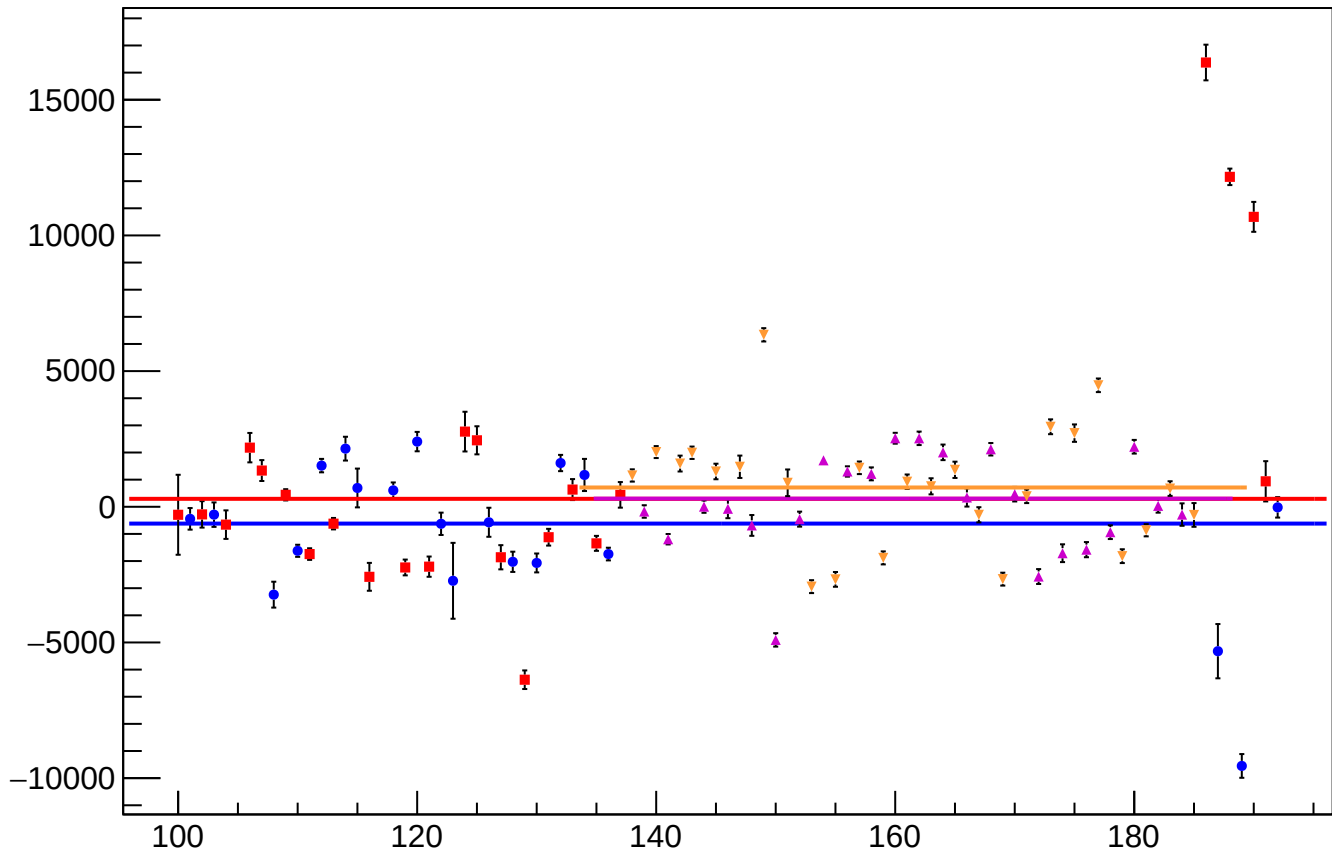
Right: 205.147 $\pm$ 0.038 χ^2/NDF : 3578951.3/42

In: 204.957 $\pm$ 0.030 χ^2/NDF :2608364.7/42

Out: 210.513 $\pm$ 0.030 χ^2/NDF :3018026.9/47

All: 207.758 $\pm$ 0.021 χ^2/NDF : 5643822.3/90

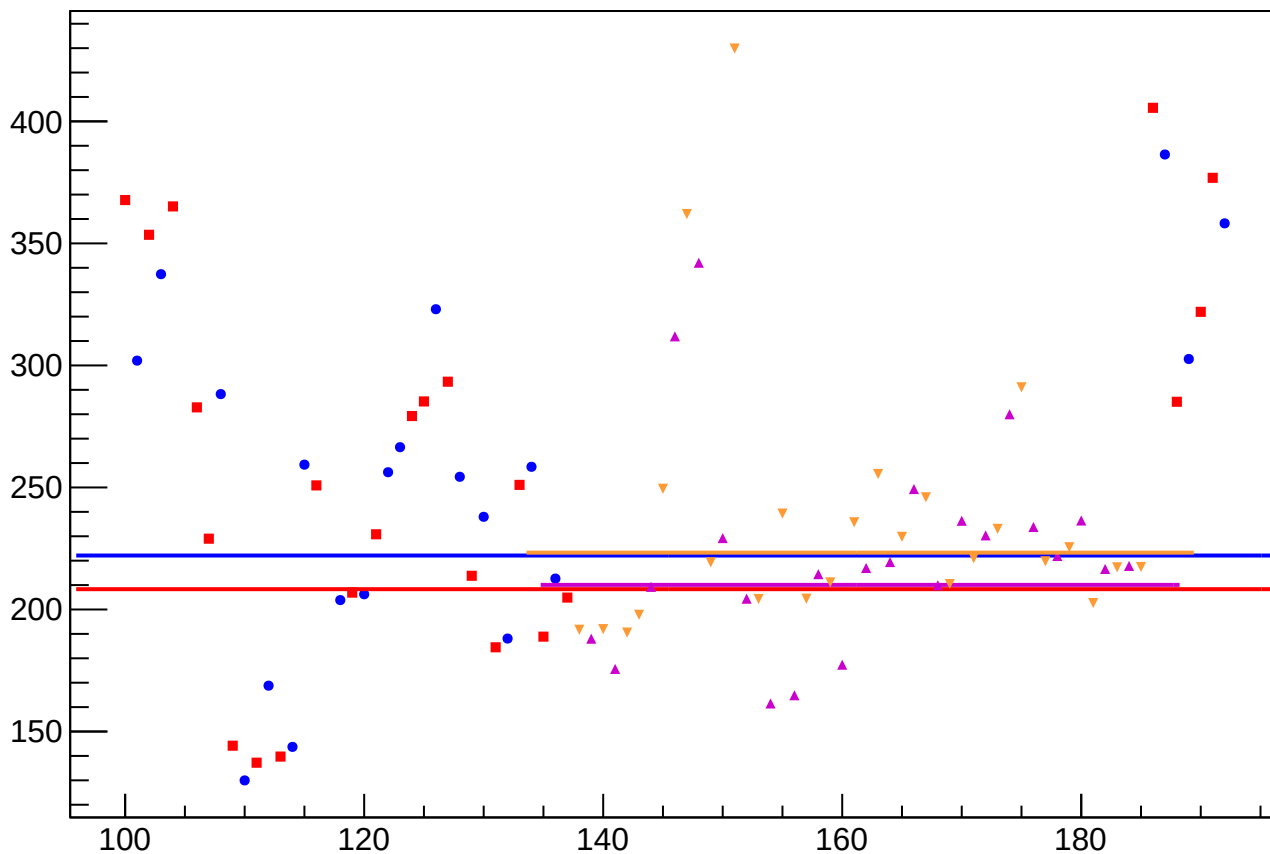
asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -619.222 ± 81.745 $\chi^2/\text{NDF}: 820.7/19$
Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$
Right Out: 293.039 ± 74.336 $\chi^2/\text{NDF}: 3255.5/22$
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: -119.885 ± 54.996 $\chi^2/\text{NDF}: 4144.4/42$
In: 35.673 ± 43.865 $\chi^2/\text{NDF}: 2119.4/42$
Out: 569.391 ± 43.286 $\chi^2/\text{NDF}: 5111.8/47$
All: 306.078 ± 30.811 $\chi^2/\text{NDF}: 7306.2/90$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 222.112 ± 0.058 $\chi^2/\text{NDF}: 1290819.2/19$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 208.322 ± 0.053 $\chi^2/\text{NDF}: 1745462.8/22$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

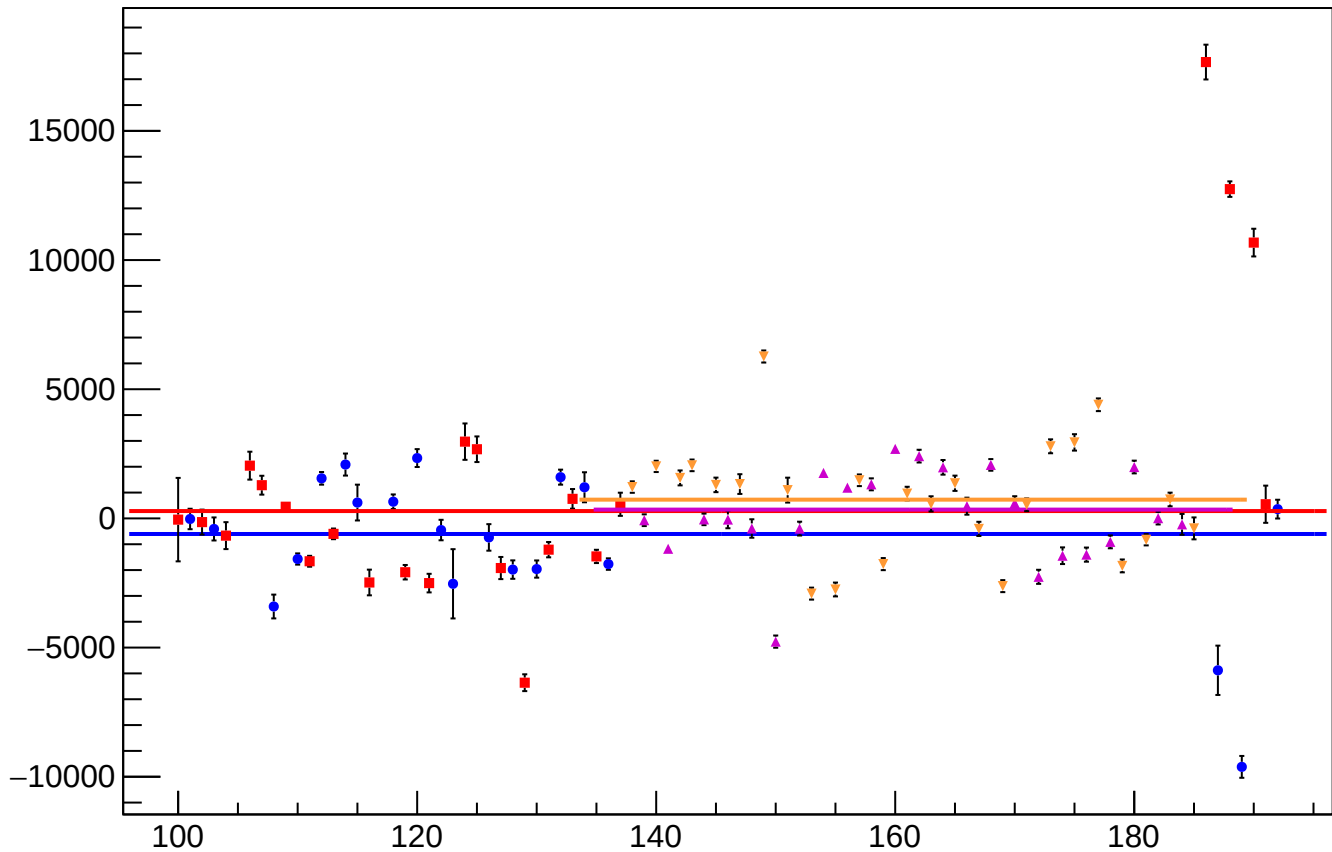
Right: 214.564 ± 0.039 $\chi^2/\text{NDF}: 3067435.4/42$

In: 213.545 ± 0.031 $\chi^2/\text{NDF}: 2336947.1/42$

Out: 218.219 ± 0.031 $\chi^2/\text{NDF}: 2721868.3/47$

All: 215.913 ± 0.022 $\chi^2/\text{NDF}: 5070320.8/90$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -603.410 $\pm$ 79.199 χ^2/NDF : 891.6/19

Left Out: 725.866 $\pm$ 52.158 χ^2/NDF : 1912.7/24

Right Out: 284.258 $\pm$ 71.741 χ^2/NDF : 3610.6/22

Left In: 340.502 $\pm$ 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 $\pm$ 36.393 χ^2/NDF : 3142.6/47

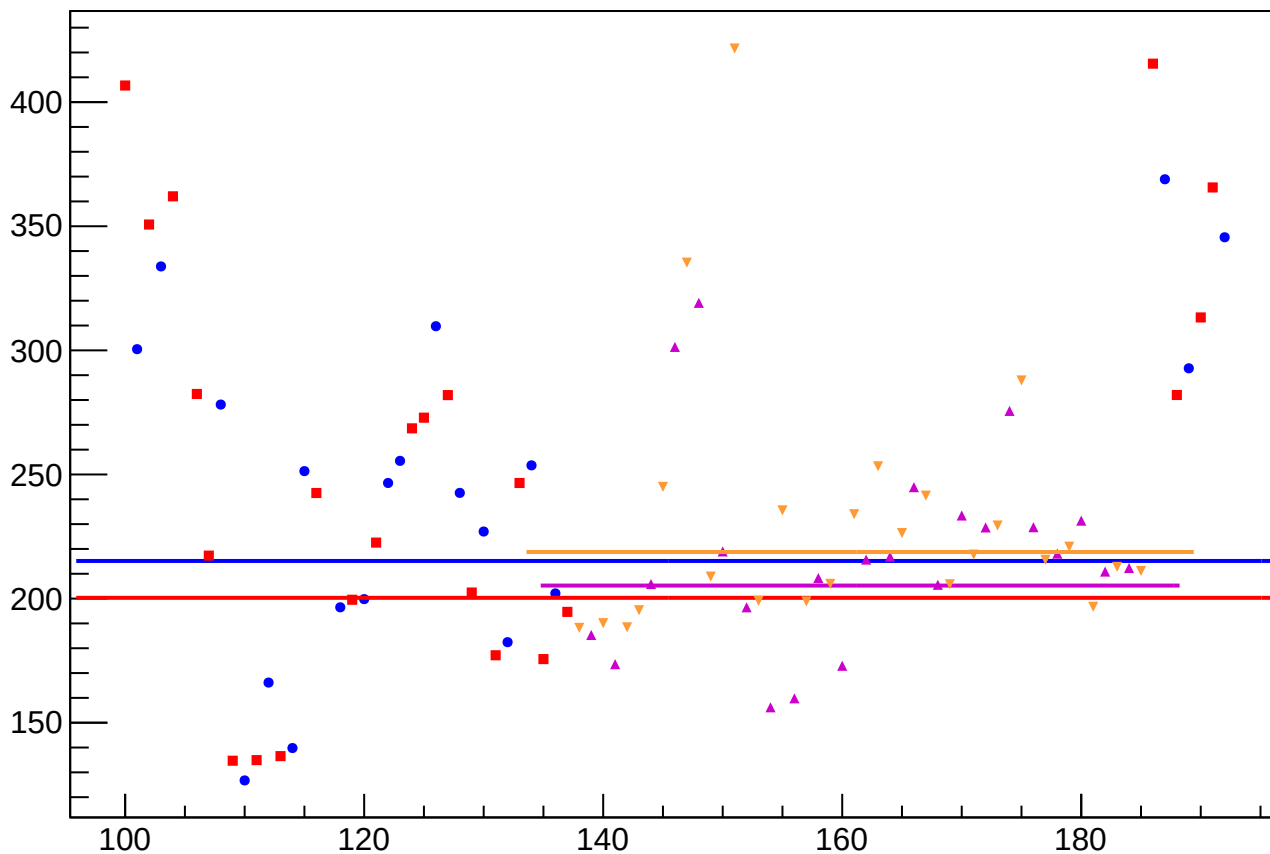
Right: -115.825 $\pm$ 53.170 χ^2/NDF : 4571.2/42

In: 65.339 $\pm$ 42.761 χ^2/NDF : 2194.1/42

Out: 573.160 $\pm$ 42.187 χ^2/NDF : 5548.1/47

All: 322.681 $\pm$ 30.032 χ^2/NDF : 7813.6/90

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 215.161+/-0.056 χ^2/NDF : 1277544.6/19

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 200.311+/-0.051 χ^2/NDF : 1844463.2/22

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

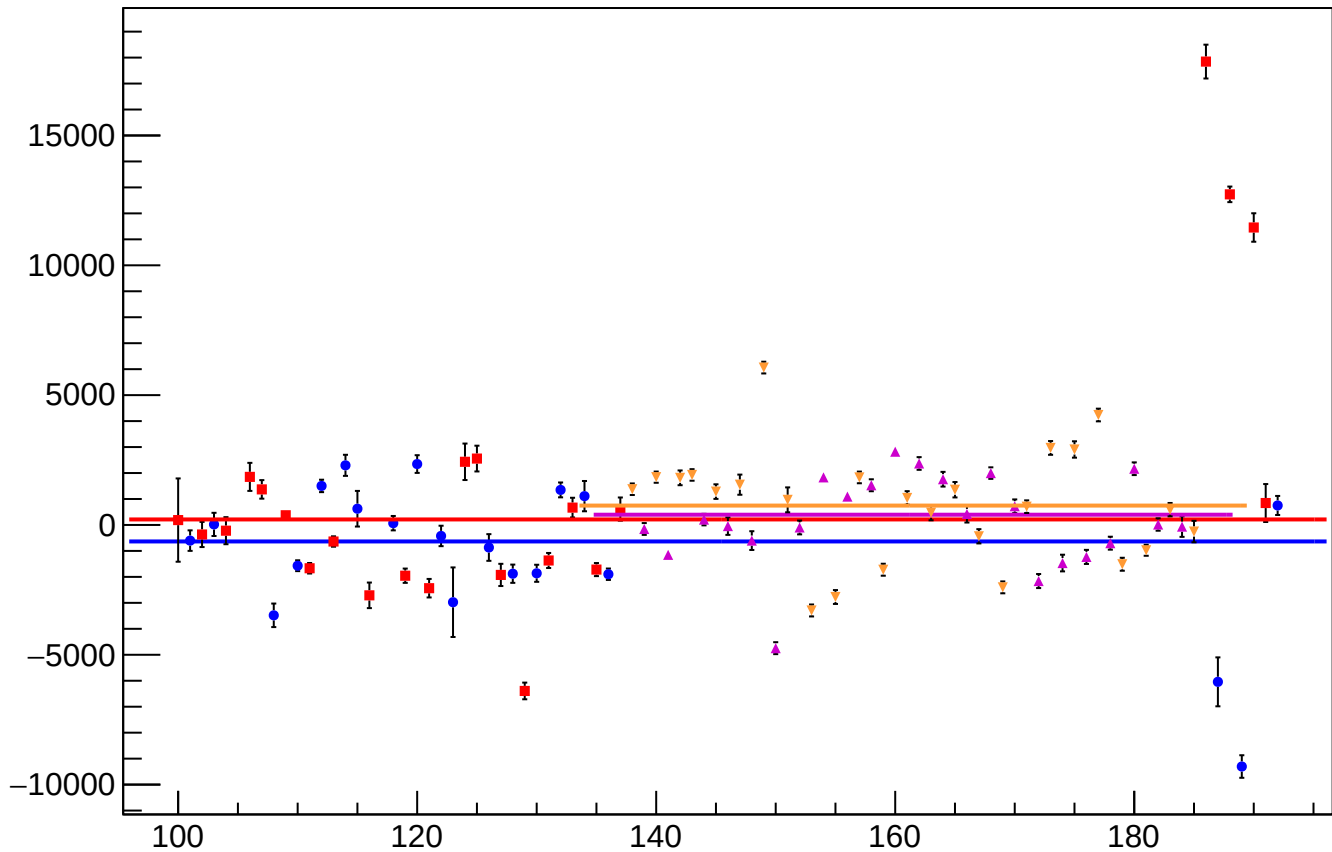
Right: 207.004+/-0.038 χ^2/NDF : 3160630.2/42

In: 208.138+/-0.030 χ^2/NDF : 2296906.8/42

Out: 212.386+/-0.030 χ^2/NDF : 2827985.2/47

All: 210.291+/-0.021 χ^2/NDF : 5134891.7/90

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -635.032 $\pm$ 78.005 χ^2/NDF : 845.1/19

Left Out: 746.405 $\pm$ 51.592 χ^2/NDF :1942.1/24

Right Out: 212.285 $\pm$ 70.354 χ^2/NDF : 3748.5/22

Left In: 394.379 $\pm$ 50.311 χ^2/NDF :1236.4/22

Left: 565.969 $\pm$ 36.020 χ^2/NDF : 3202.4/47

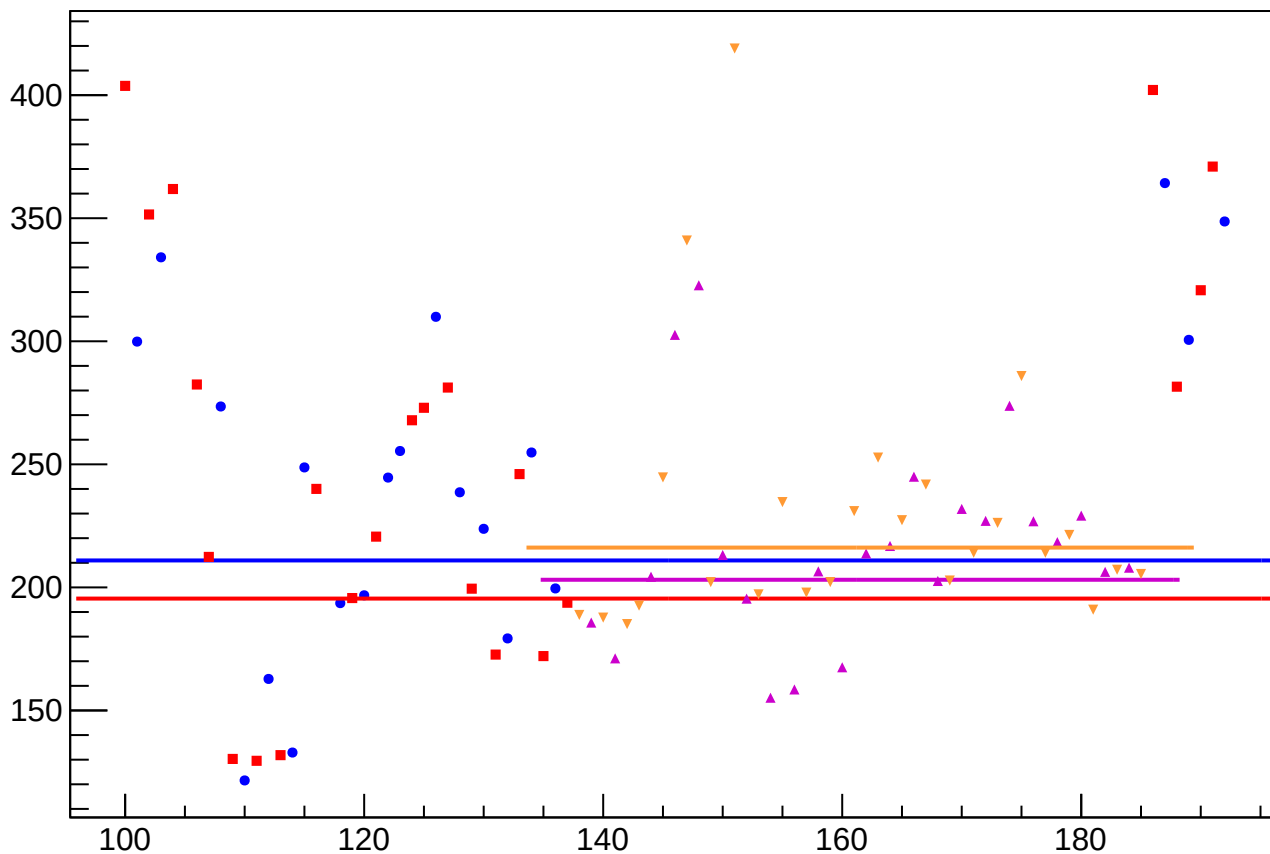
Right: -167.796 $\pm$ 52.244 χ^2/NDF : 4658.7/42

In: 91.956 $\pm$ 42.280 χ^2/NDF :2204.5/42

Out: 559.624 $\pm$ 41.604 χ^2/NDF :5728.1/47

All: 329.557 $\pm$ 29.655 χ^2/NDF : 7994.8/90

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 210.952 $\pm$ 0.055 χ^2/NDF : 1397932.1/19

Left Out: 216.178 $\pm$ 0.036 χ^2/NDF : 946050.8/24

Right Out: 195.459 $\pm$ 0.050 χ^2/NDF : 1984261.3/22

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

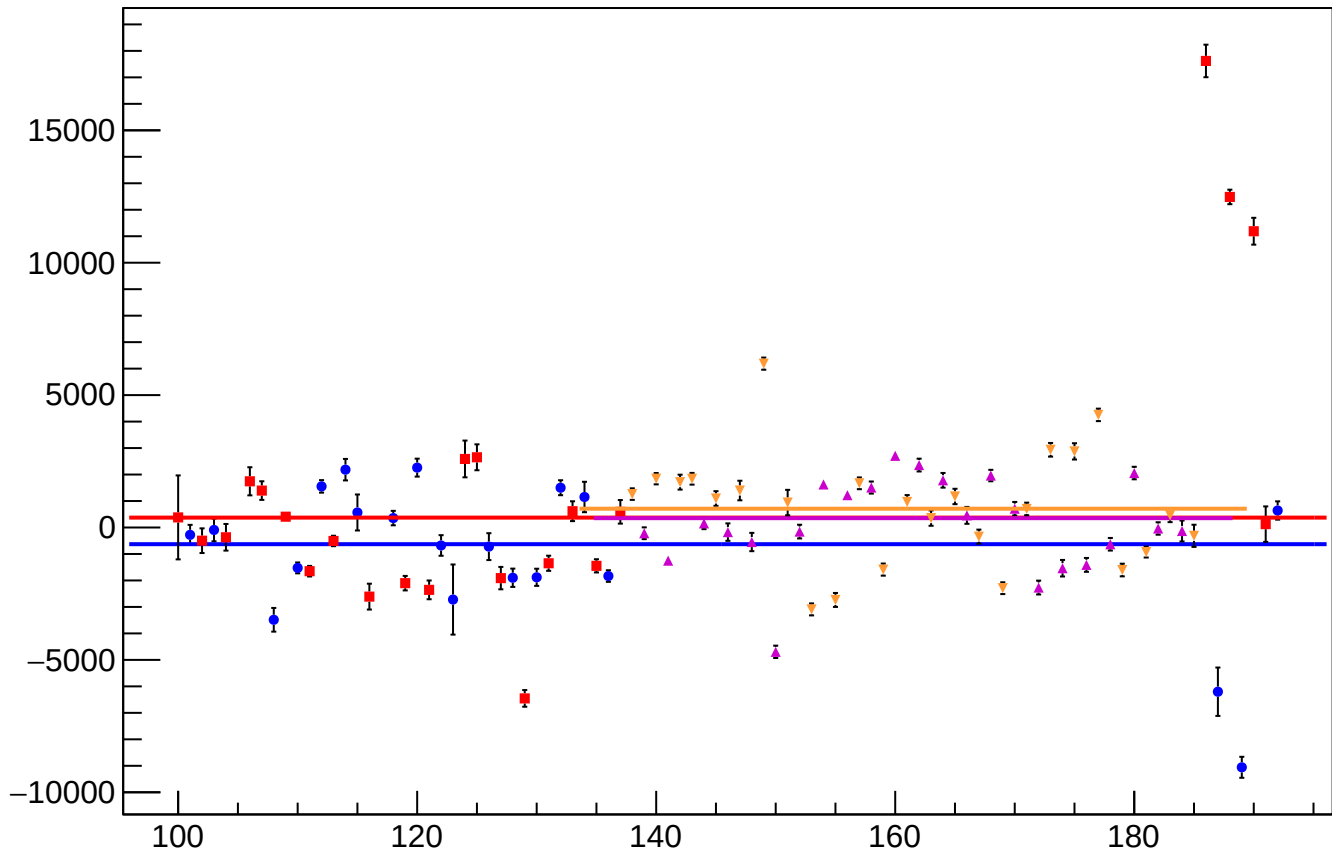
Right: 202.408 $\pm$ 0.037 χ^2/NDF : 3425699.2/42

In: 205.407 $\pm$ 0.030 χ^2/NDF : 2450252.9/42

Out: 208.932 $\pm$ 0.029 χ^2/NDF : 3043110.9/47

All: 207.198 $\pm$ 0.021 χ^2/NDF : 5500427.5/90

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.898+/-76.520 χ^2/NDF : 914.7/19

Left Out: 710.238+/-50.750 χ^2/NDF :1932.3/24

Right Out: 373.479+/-68.809 χ^2/NDF : 4138.6/22

Left In: 352.432+/-49.316 χ^2/NDF :1233.1/22

Left: 526.207+/-35.368 χ^2/NDF : 3190.9/47

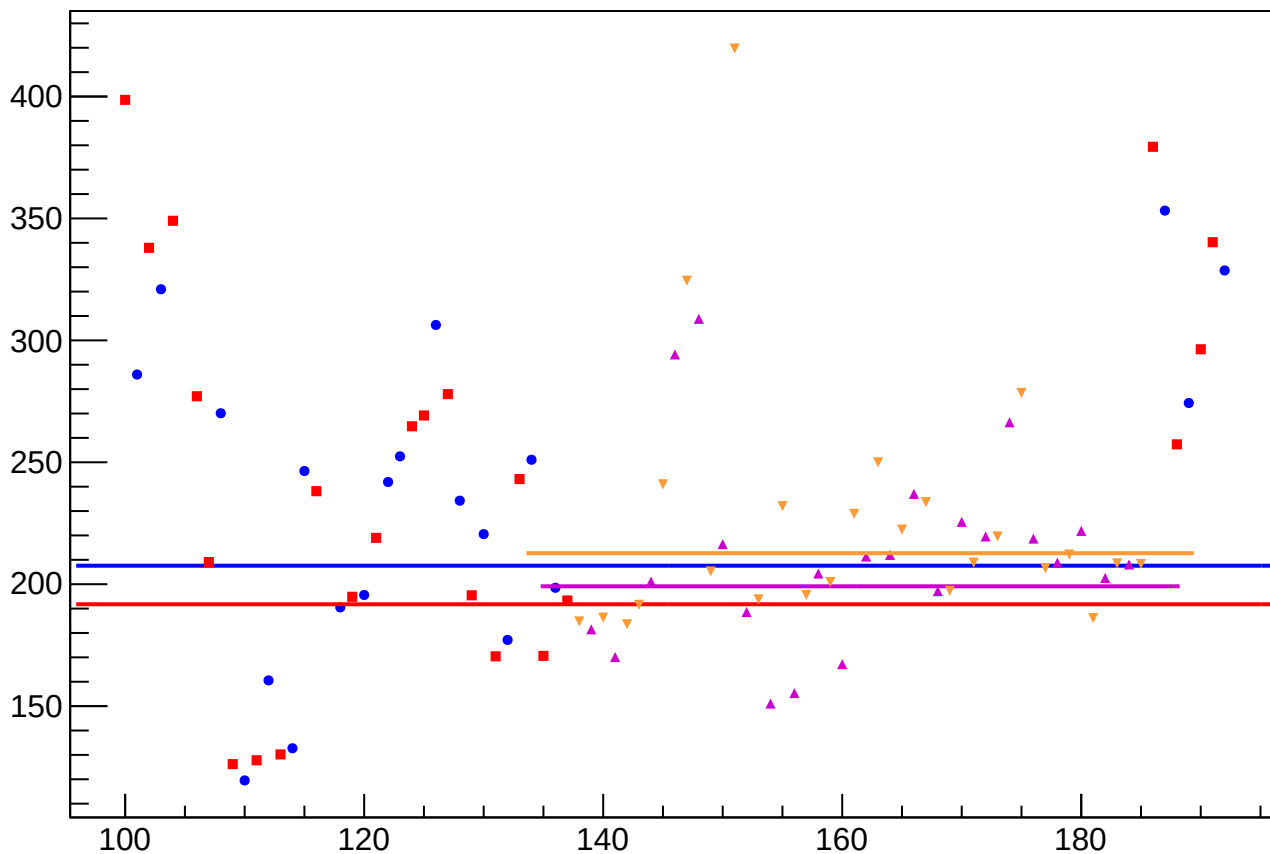
Right: -75.125+/-51.165 χ^2/NDF : 5148.3/42

In: 64.150+/-41.453 χ^2/NDF :2264.2/42

Out: 591.590+/-40.843 χ^2/NDF :6086.4/47

All: 331.777+/-29.094 χ^2/NDF : 8432.7/90

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 207.591 ± 0.054 $\chi^2/\text{NDF}: 1296145.2/19$

Left Out: 212.718 ± 0.036 $\chi^2/\text{NDF}: 916225.9/24$

Right Out: 191.772 ± 0.049 $\chi^2/\text{NDF}: 1873266.4/22$

Left In: 199.142 ± 0.035 $\chi^2/\text{NDF}: 985932.4/22$

Left: 205.736 ± 0.025 $\chi^2/\text{NDF}: 1975772.3/47$

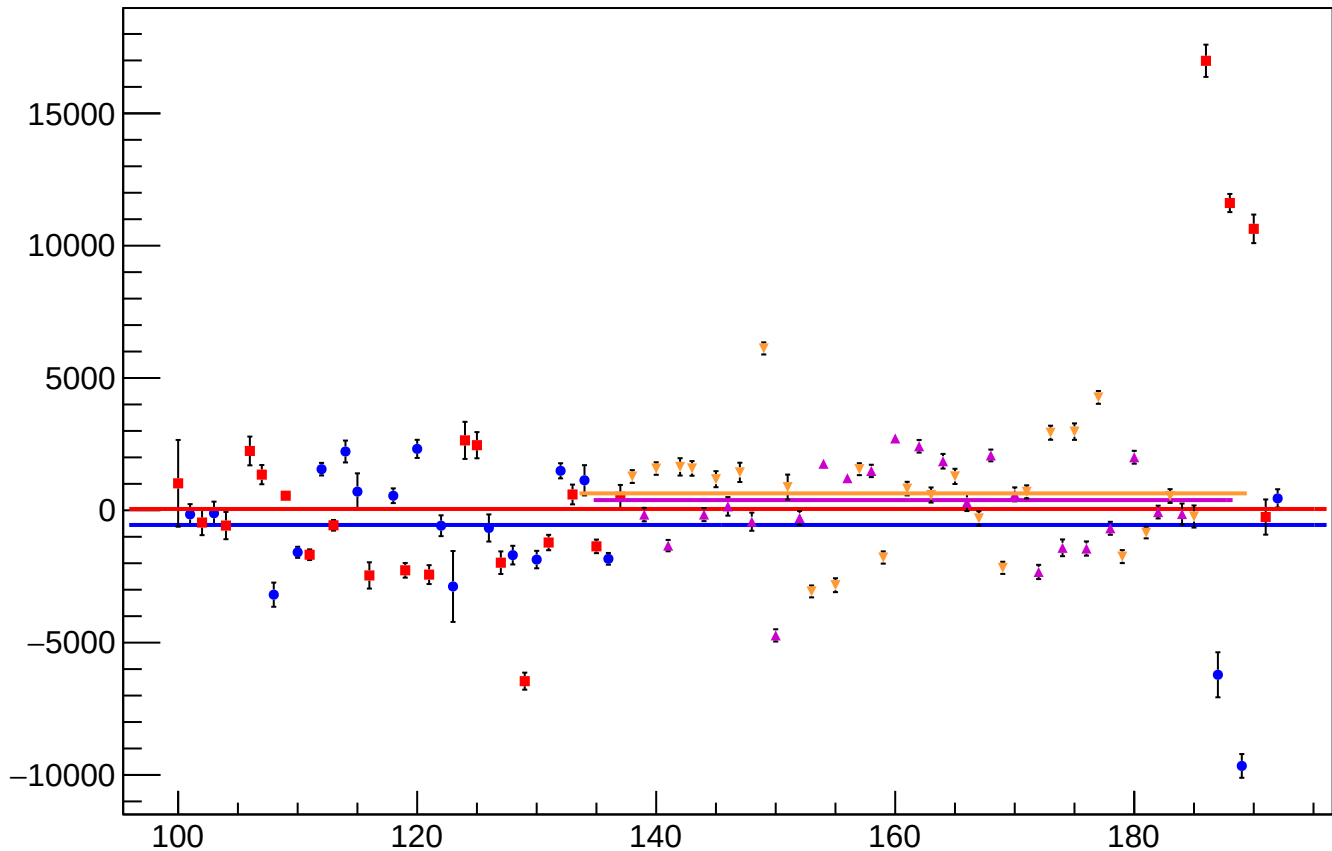
Right: 198.844 ± 0.036 $\chi^2/\text{NDF}: 3216672.1/42$

In: 201.621 ± 0.029 $\chi^2/\text{NDF}: 2299304.1/42$

Out: 205.338 ± 0.029 $\chi^2/\text{NDF}: 2909532.3/47$

All: 203.507 ± 0.021 $\chi^2/\text{NDF}: 5216995.4/90$

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -553.367±/77.874 χ^2/NDF : 859.0/19

Left Out: 639.995±/52.708 χ^2/NDF :1859.2/24

Right Out: 50.276±/70.947 χ^2/NDF : 3080.4/22

Left In: 386.248±/50.994 χ^2/NDF :1238.0/22

Left: 508.926±/36.649 χ^2/NDF : 3109.2/47

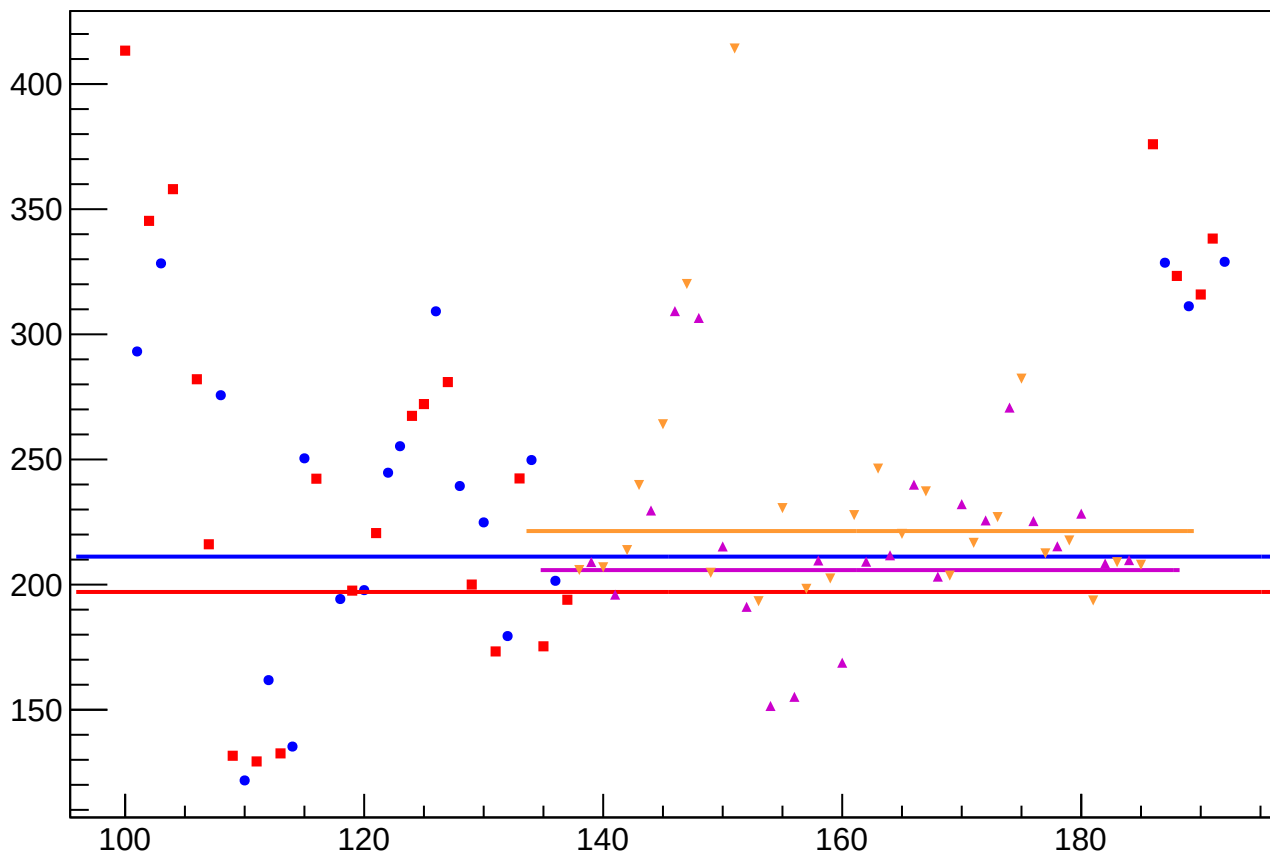
Right: -223.507±/52.445 χ^2/NDF : 3972.2/42

In: 104.263±/42.661 χ^2/NDF :2198.9/42

Out: 430.263±/42.310 χ^2/NDF :4984.1/47

All: 268.610±/30.041 χ^2/NDF : 7212.5/90

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 211.187+/-0.055 χ^2/NDF : 1320897.6/19

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 197.063+/-0.050 χ^2/NDF : 2002468.8/22

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

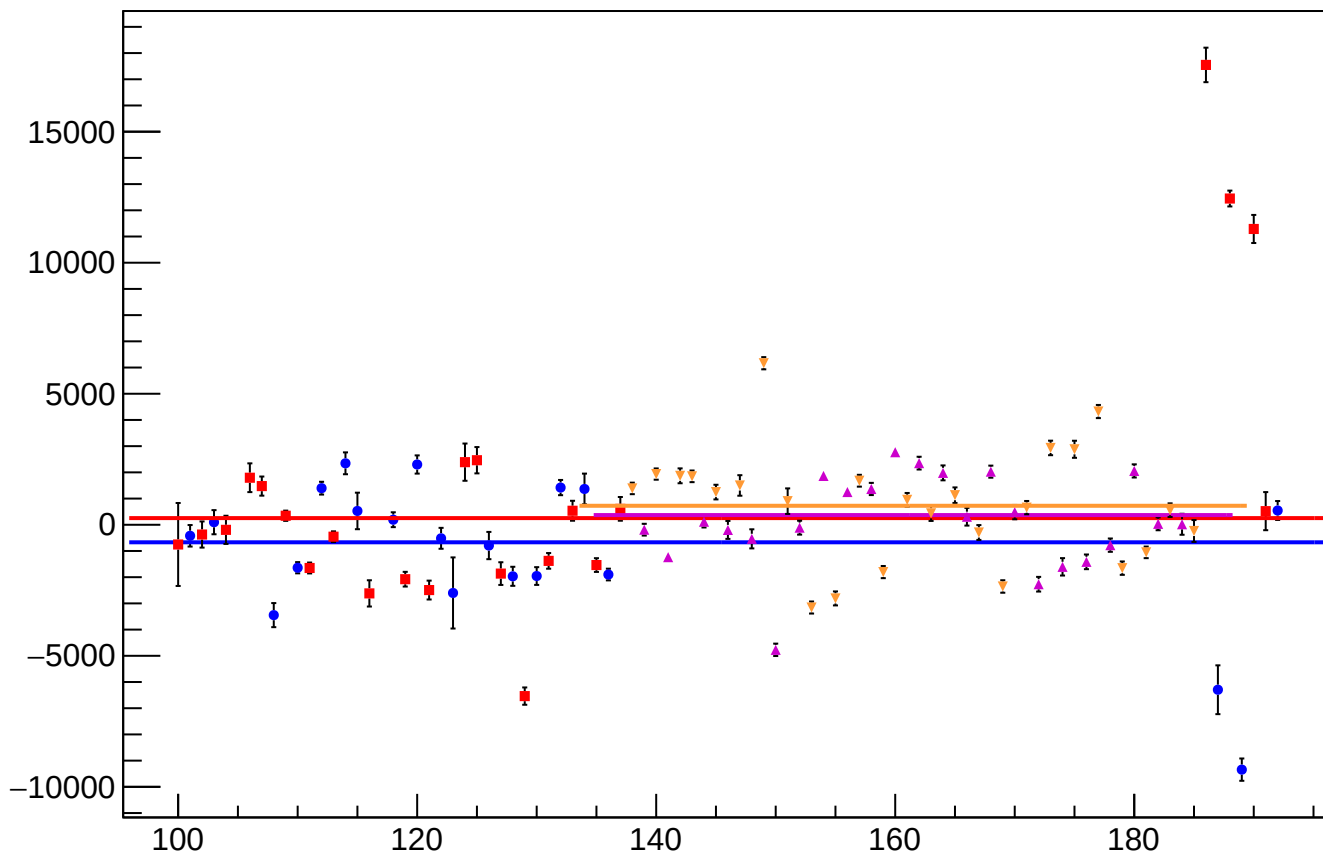
Right: 203.469+/-0.037 χ^2/NDF : 3359320.9/42

In: 207.419+/-0.030 χ^2/NDF : 2322491.8/42

Out: 212.743+/-0.030 χ^2/NDF : 2931927.6/47

All: 210.103+/-0.021 χ^2/NDF : 5270123.3/90

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -668.829+/-79.459 χ^2/NDF : 855.7/19

Left Out: 725.250+/-52.307 χ^2/NDF : 1883.1/24

Right Out: 254.608+/-71.965 χ^2/NDF : 3576.0/22

Left In: 370.408+/-50.884 χ^2/NDF : 1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

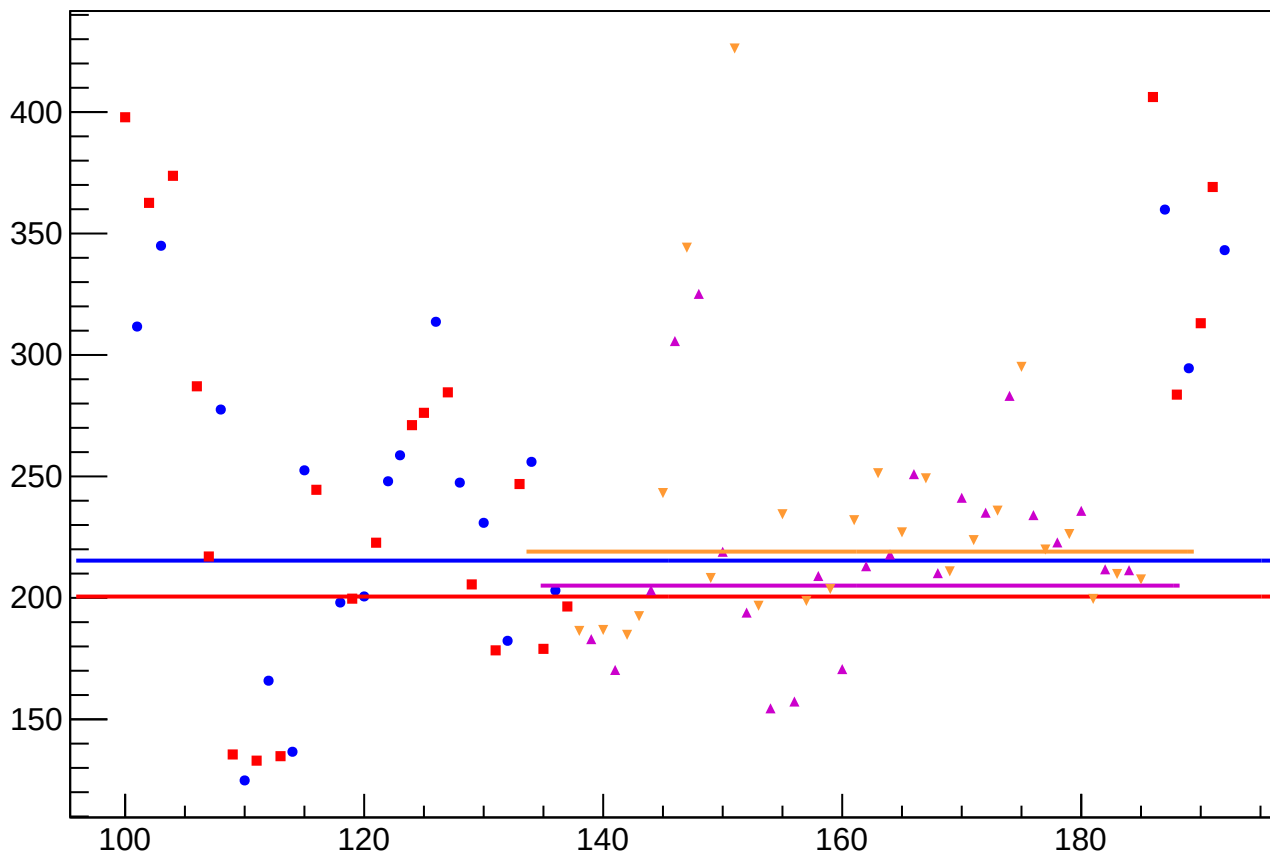
Right: -161.519+/-53.340 χ^2/NDF : 4505.9/42

In: 68.169+/-42.851 χ^2/NDF : 2200.2/42

Out: 562.559+/-42.311 χ^2/NDF : 5487.1/47

All: 318.497+/-30.108 χ^2/NDF : 7754.7/90

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 215.341 $\pm$ 0.056 χ^2 /NDF: 1347809.0/19

Left Out: 219.049 $\pm$ 0.037 χ^2 /NDF: 975564.4/24

Right Out: 200.543 $\pm$ 0.051 χ^2 /NDF: 1903947.7/22

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

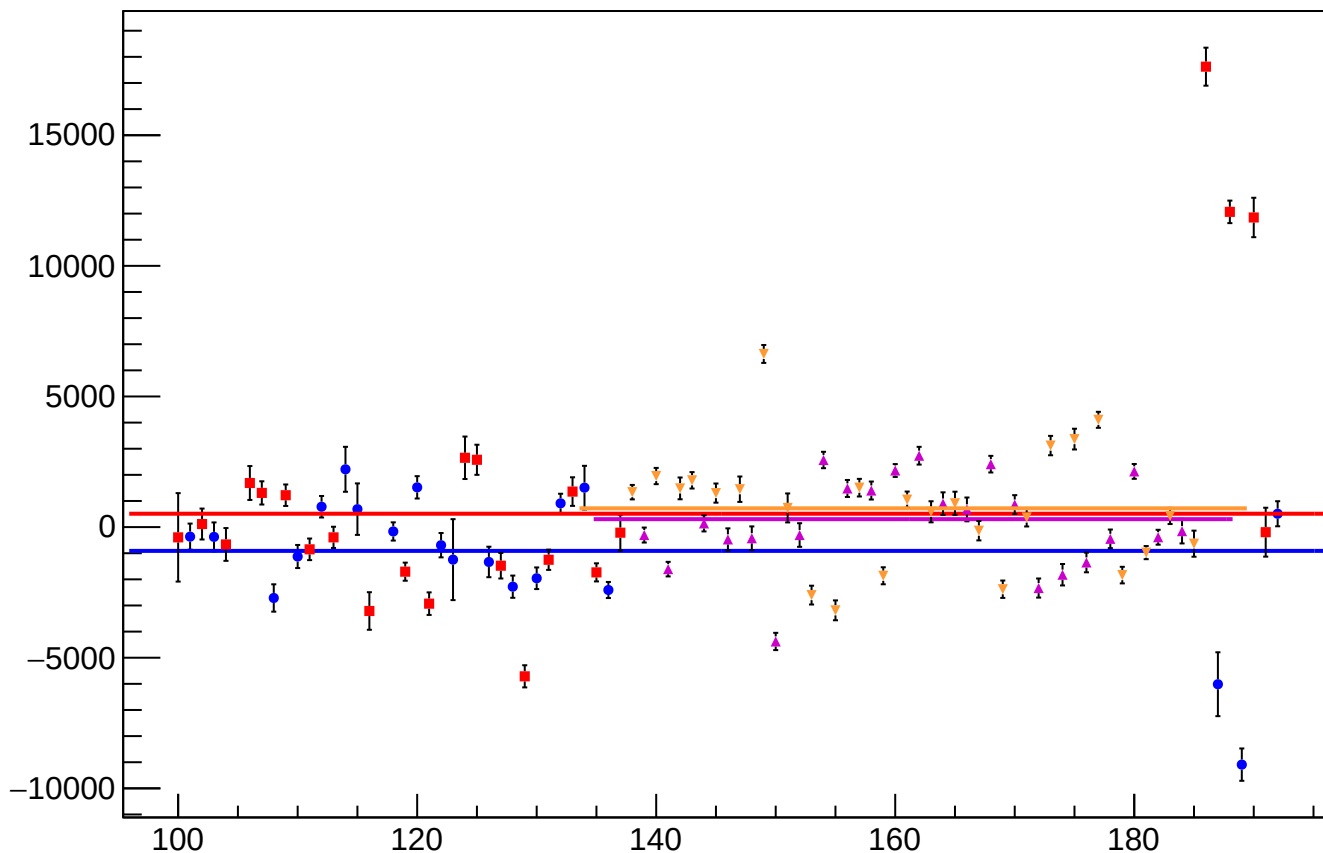
Right: 207.211 $\pm$ 0.038 χ^2 /NDF: 3289863.9/42

In: 208.040 $\pm$ 0.030 χ^2 /NDF: 2515812.4/42

Out: 212.652 $\pm$ 0.030 χ^2 /NDF: 2966046.6/47

All: 210.375 $\pm$ 0.021 χ^2 /NDF: 5493585.6/90

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -910.563+/-108.906 χ^2/NDF : 358.8/19

Left Out: 718.705+/-69.601 χ^2/NDF :1018.5/24

Right Out: 511.780+/-104.505 χ^2/NDF : 1977.9/22

Left In: 304.161+/-70.958 χ^2/NDF :643.5/22

Left: 515.435+/-49.688 χ^2/NDF : 1679.4/47

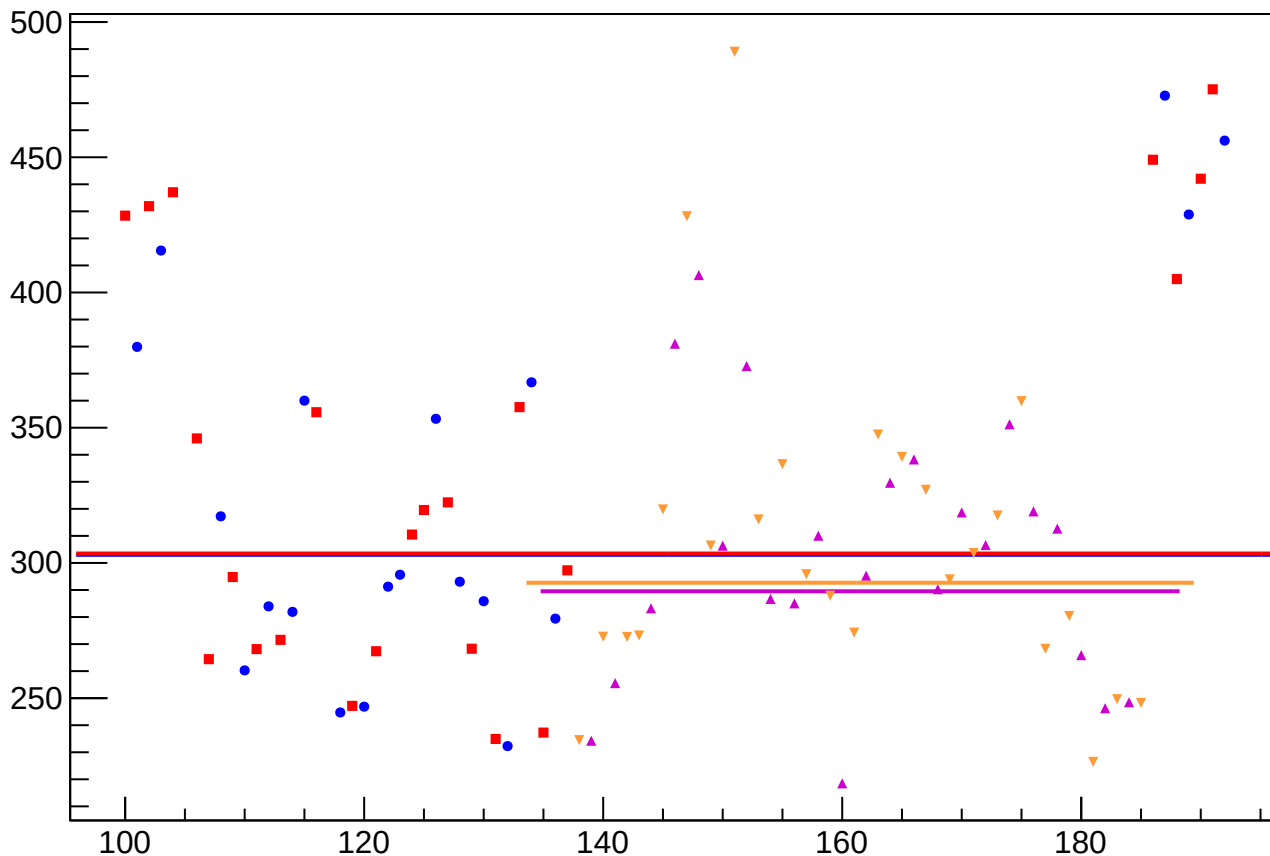
Right: -170.071+/-75.404 χ^2/NDF : 2425.4/42

In: -57.837+/-59.452 χ^2/NDF :1089.6/42

Out: 655.124+/-57.929 χ^2/NDF :2999.1/47

All: 307.892+/-41.490 χ^2/NDF : 4162.5/90

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 303.013+/-0.077 χ^2/NDF : 695691.5/19

Left Out: 292.686+/-0.049 χ^2/NDF : 925193.6/24

Right Out: 303.486+/-0.074 χ^2/NDF : 824752.1/22

Left In: 289.522+/-0.050 χ^2/NDF : 777901.0/22

Left: 291.134+/-0.035 χ^2/NDF : 1705121.5/47

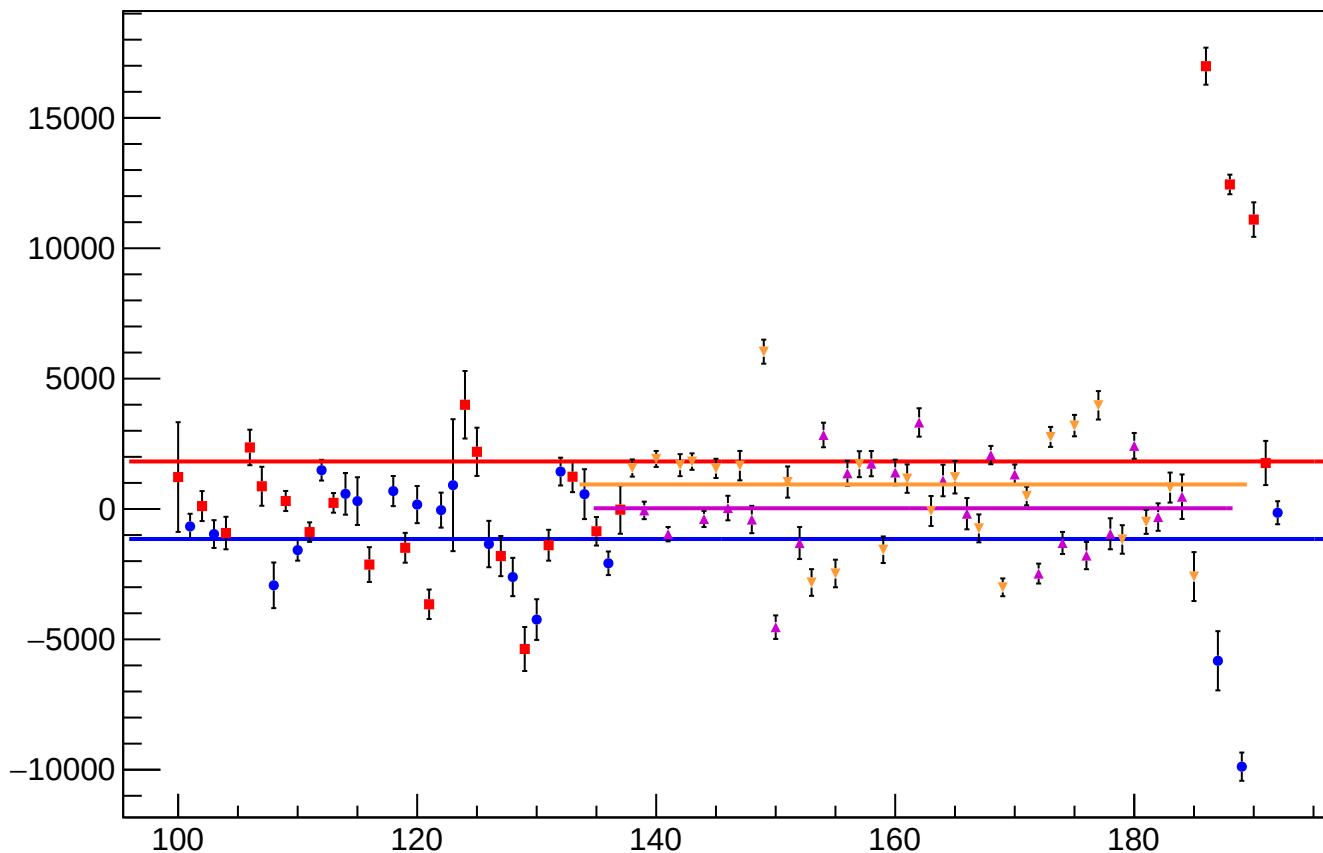
Right: 303.259+/-0.053 χ^2/NDF : 1520463.2/42

In: 293.542+/-0.042 χ^2/NDF : 1495137.2/42

Out: 296.004+/-0.041 χ^2/NDF : 1764742.7/47

All: 294.805+/-0.029 χ^2/NDF : 3261639.8/90

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -1151.120 ± 134.580 $\chi^2/\text{NDF}: 407.0/19$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1823.126 ± 122.174 $\chi^2/\text{NDF}: 1886.8/22$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

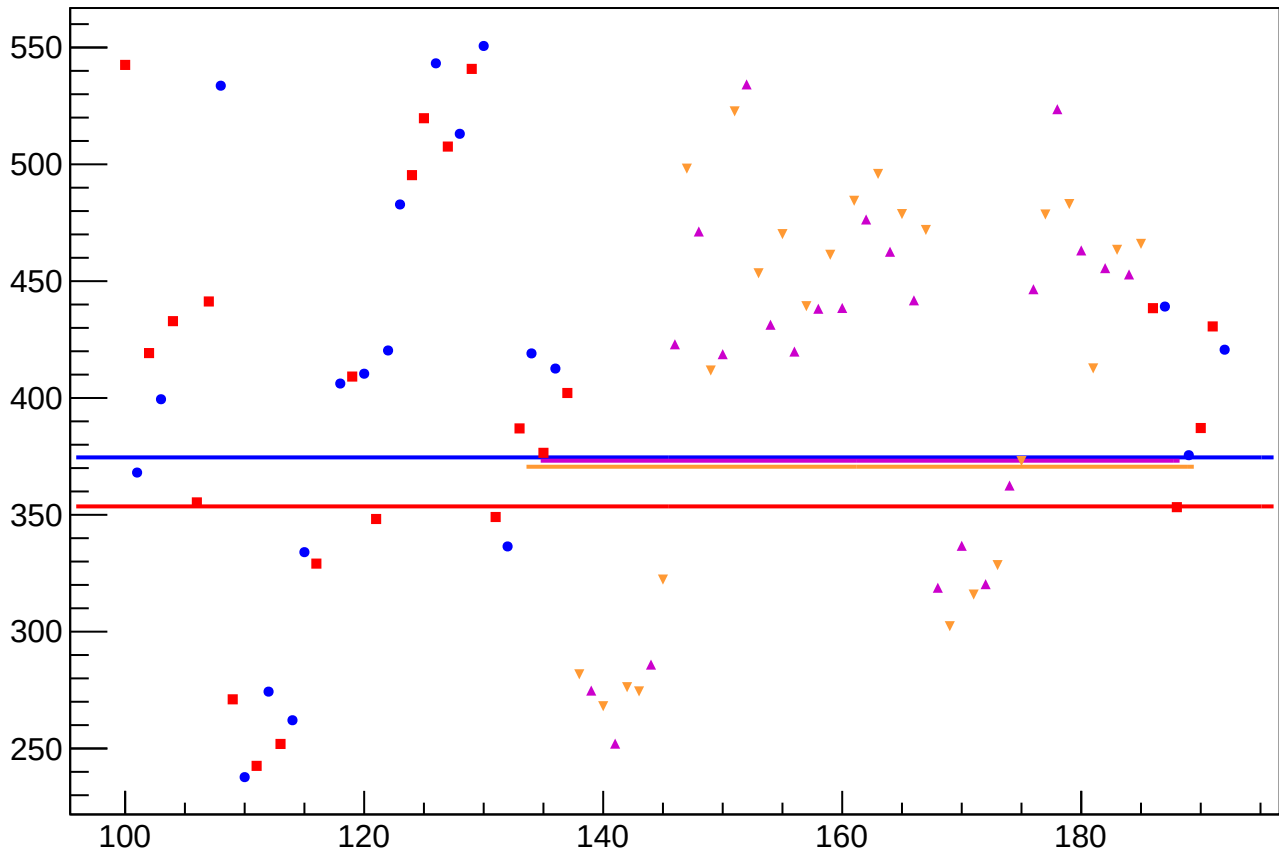
Right: 479.385 ± 90.459 $\chi^2/\text{NDF}: 2561.6/42$

In: -349.535 ± 76.136 $\chi^2/\text{NDF}: 821.7/42$

Out: 1247.751 ± 71.999 $\chi^2/\text{NDF}: 2465.4/47$

All: 493.673 ± 52.312 $\chi^2/\text{NDF}: 3519.5/90$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 374.579 $\pm$ 0.095 χ^2 /NDF: 797246.6/19

Left Out: 370.580 $\pm$ 0.063 χ^2 /NDF:1878118.9/24

Right Out: 353.604 $\pm$ 0.086 χ^2 /NDF: 871004.4/22

Left In: 373.161 $\pm$ 0.065 χ^2 /NDF:1636244.2/22

Left: 371.824 $\pm$ 0.045 χ^2 /NDF: 3515172.3/47

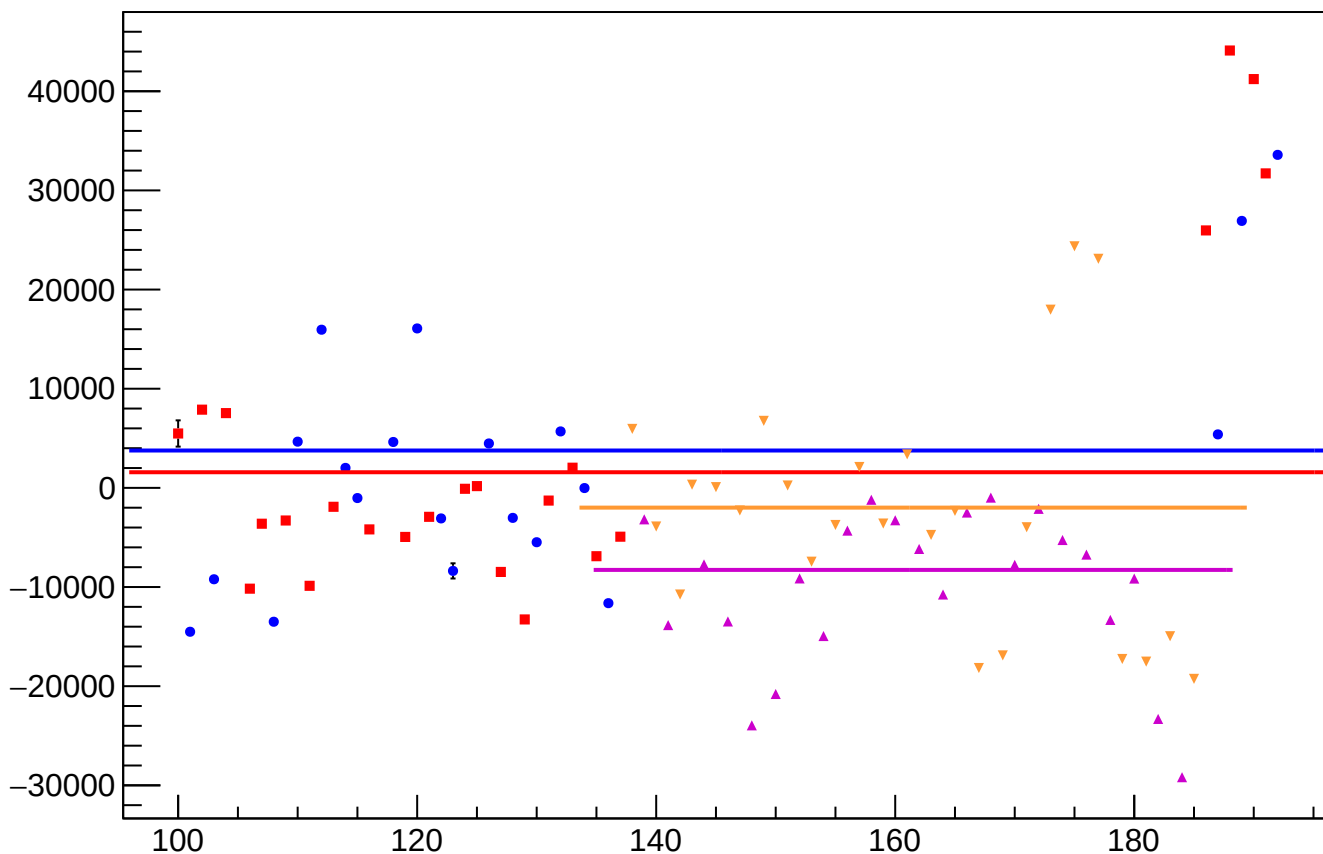
Right: 363.080 $\pm$ 0.064 χ^2 /NDF: 1694884.4/42

In: 373.615 $\pm$ 0.054 χ^2 /NDF:2433641.9/42

Out: 364.684 $\pm$ 0.051 χ^2 /NDF:2774326.8/47

All: 368.900 $\pm$ 0.037 χ^2 /NDF: 5222495.7/90

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3767.726+/-51.329 χ^2/NDF : 67970.3/19

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 1576.008+/-48.538 χ^2/NDF : 105266.5/22

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

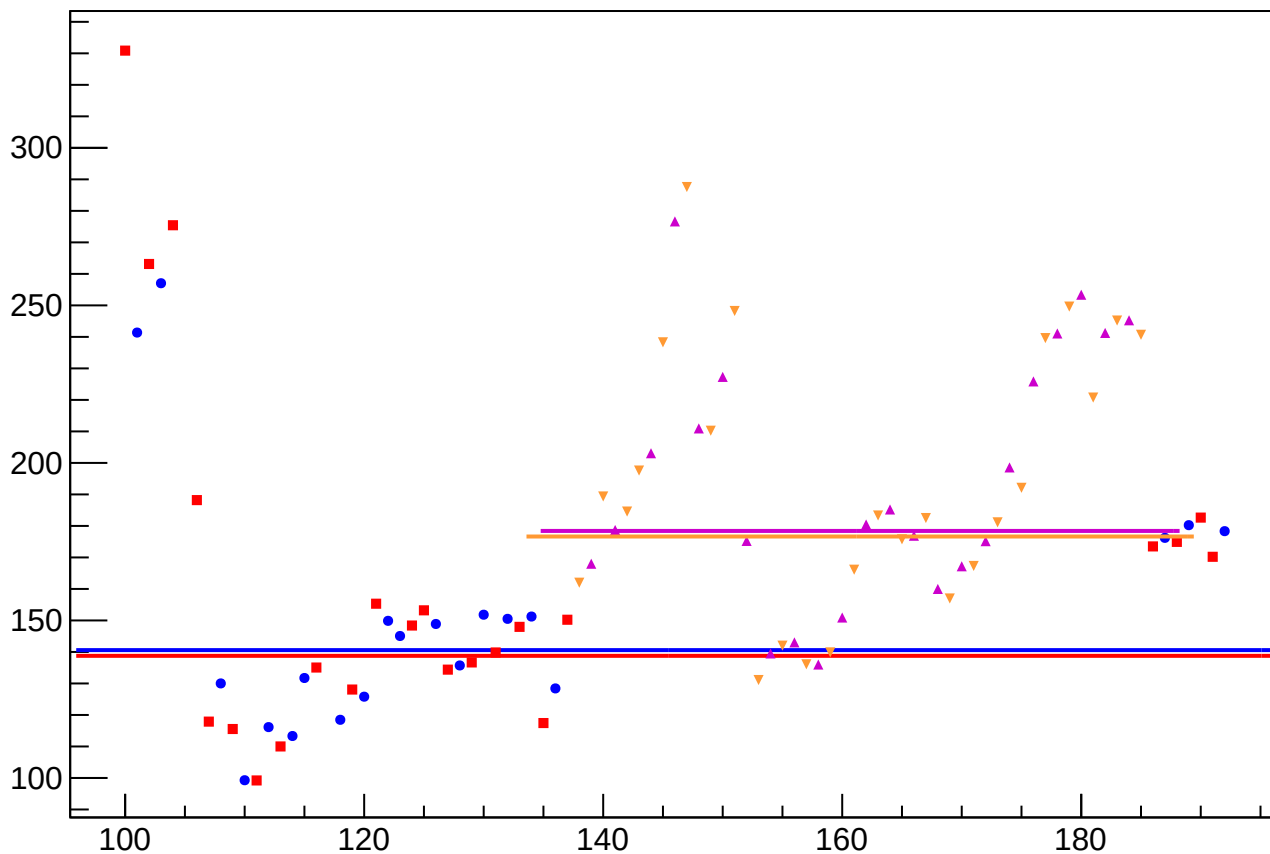
Right: 2610.672+/-35.267 χ^2/NDF : 174199.3/42

In: -3132.875+/-33.537 χ^2/NDF : 122377.7/42

Out: -446.521+/-31.944 χ^2/NDF : 172095.9/47

All: -1724.364+/-23.131 χ^2/NDF : 297837.6/99

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 140.583 ± 0.036 χ^2/NDF : 816529.9/19

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 138.772 ± 0.034 χ^2/NDF : 1018915.3/22

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

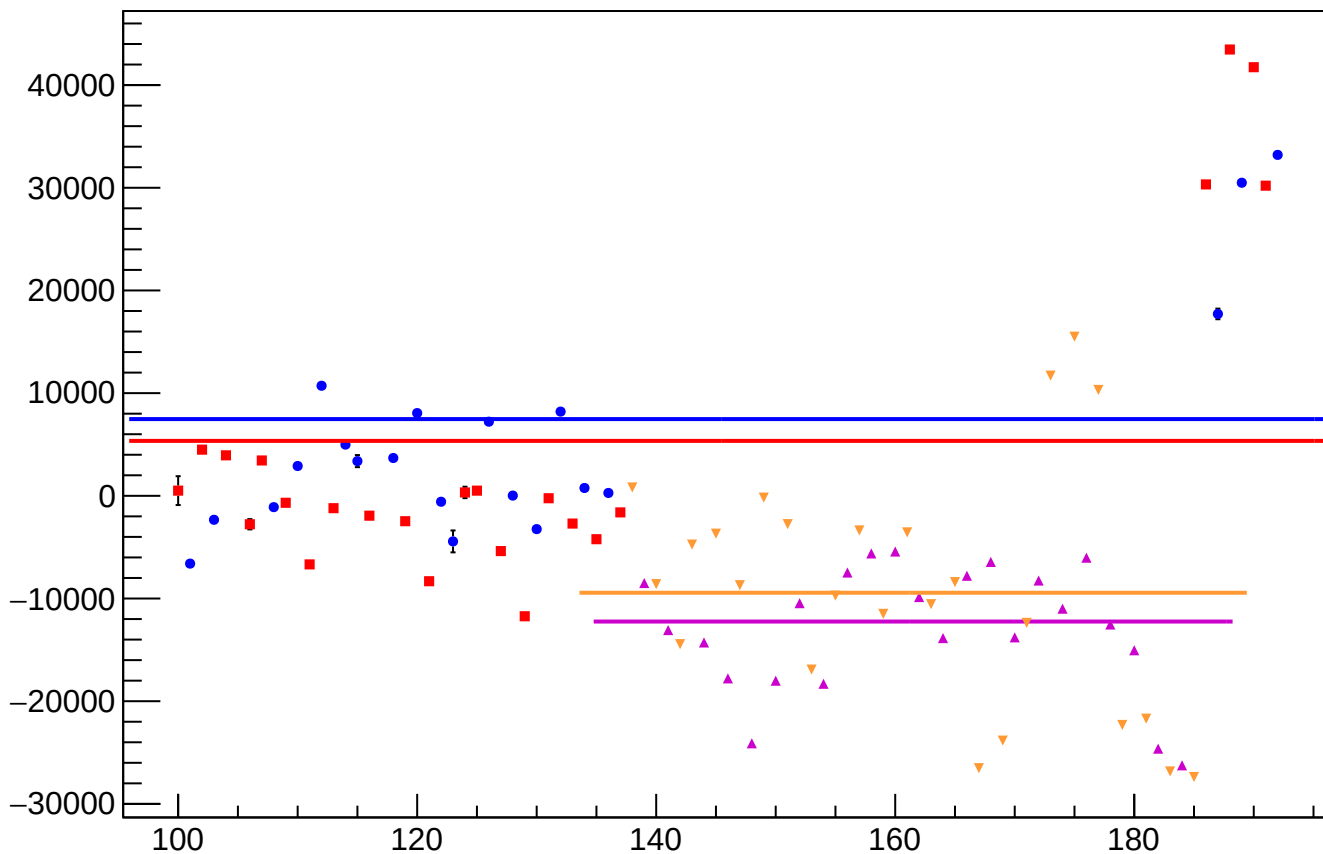
Right: 139.627 ± 0.025 χ^2/NDF : 1836759.5/42

In: 162.263 ± 0.024 χ^2/NDF : 2732874.3/42

Out: 160.239 ± 0.023 χ^2/NDF : 3260075.1/47

All: 161.202 ± 0.016 χ^2/NDF : 5996769.1/90

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7473.094 +/- 64.743 χ^2/NDF : 30580.6/19

Left Out: -9437.408 +/- 45.534 χ^2/NDF : 62220.4/24

Right Out: 5350.986 +/- 59.225 χ^2/NDF : 83678.1/22

Left In: -12242.226 +/- 43.944 χ^2/NDF : 16615.8/22

Left: -10889.638 +/- 31.621 χ^2/NDF : 80800.7/47

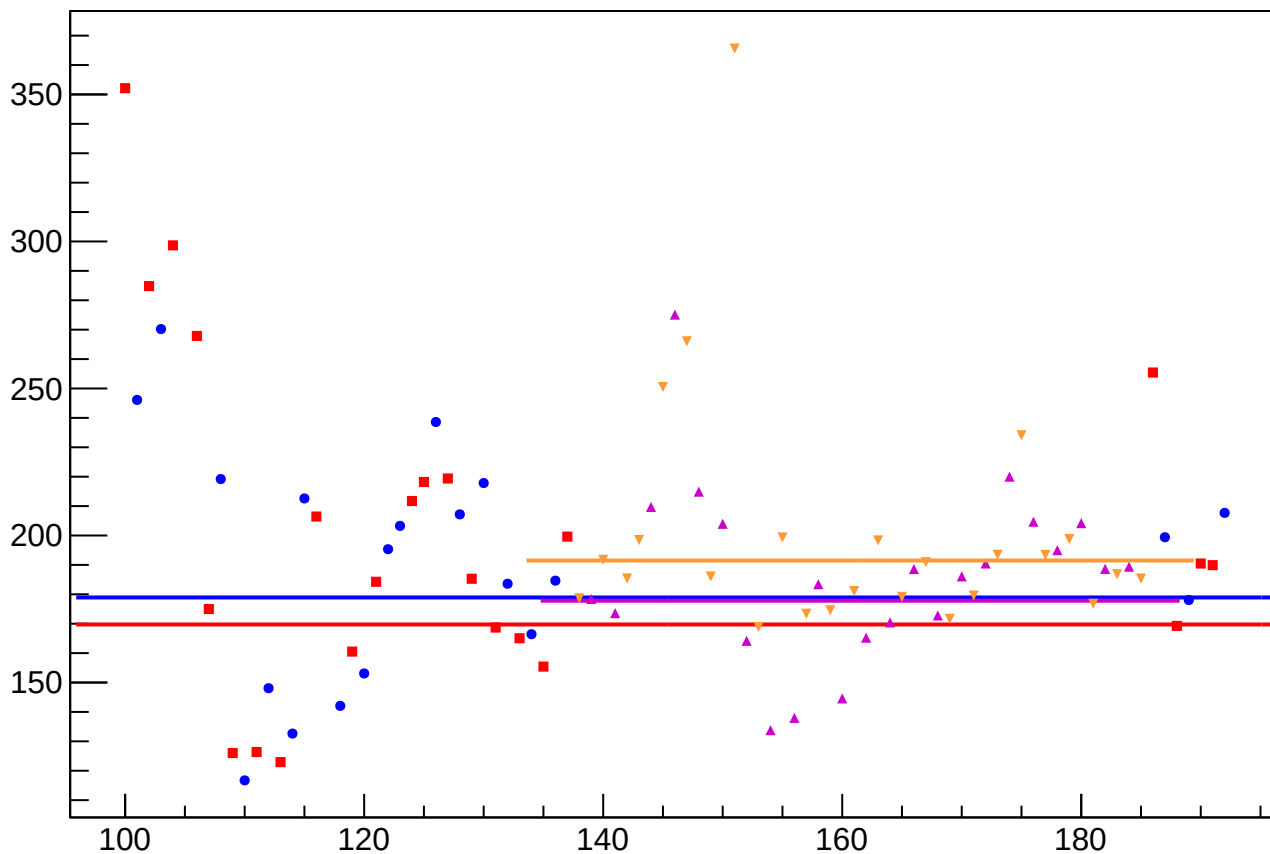
Right: 6317.766 +/- 43.699 χ^2/NDF : 114843.6/42

In: -6023.997 +/- 36.360 χ^2/NDF : 110680.2/42

Out: -3943.354 +/- 36.098 χ^2/NDF : 185085.0/47

All: -4976.167 +/- 25.617 χ^2/NDF : 297414.2/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.926+/-0.046 χ^2/NDF : 730087.3/19

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 169.740+/-0.042 χ^2/NDF : 1030898.6/22

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

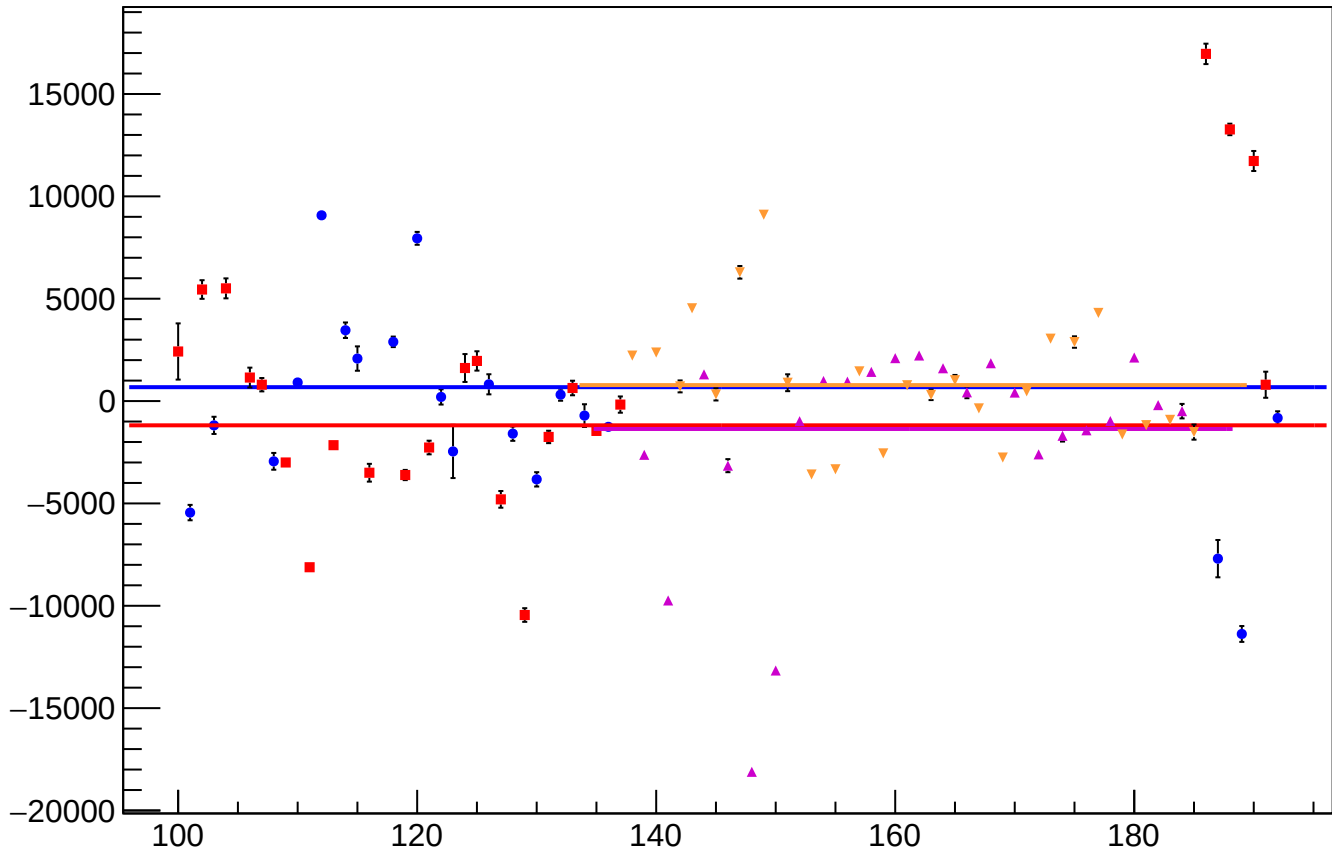
Right: 173.925+/-0.031 χ^2/NDF : 1782905.3/42

In: 178.170+/-0.026 χ^2/NDF : 1592979.8/42

Out: 183.420+/-0.026 χ^2/NDF : 1927944.8/47

All: 180.814+/-0.018 χ^2/NDF : 3541926.4/90

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 678.890+/-73.629 χ^2/NDF : 3787.8/19

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -1184.892+/-66.320 χ^2/NDF : 7663.3/22

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

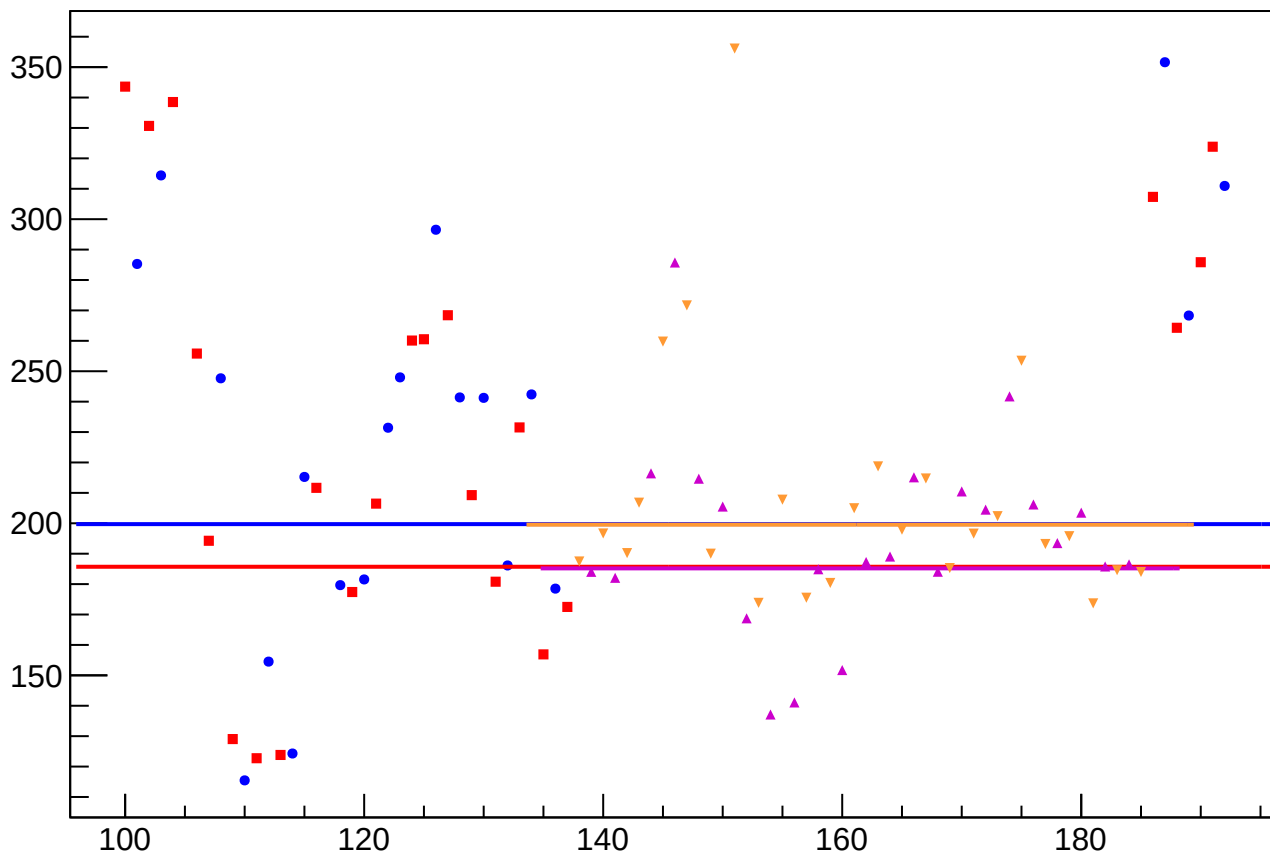
Right: -350.068+/-49.277 χ^2/NDF : 11804.9/42

In: -793.255+/-38.894 χ^2/NDF : 15975.2/42

Out: 114.582+/-38.594 χ^2/NDF : 12504.6/47

All: -335.821+/-27.396 χ^2/NDF : 28754.3/90

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.724 ± 0.052 $\chi^2/\text{NDF}: 1360276.6/19$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 185.706 ± 0.047 $\chi^2/\text{NDF}: 1793799.2/22$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

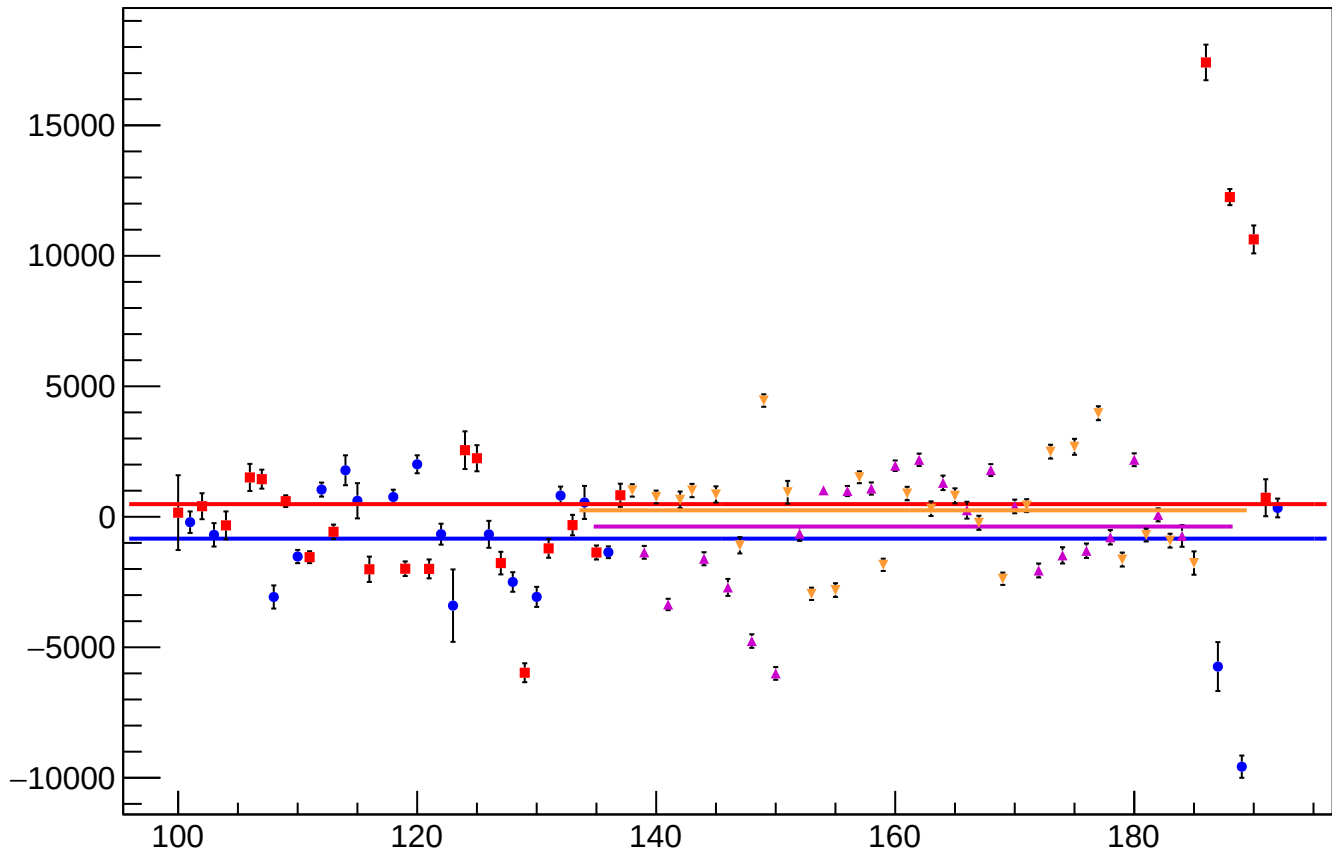
Right: 191.985 ± 0.035 $\chi^2/\text{NDF}: 3194099.6/42$

In: 189.232 ± 0.028 $\chi^2/\text{NDF}: 2299366.9/42$

Out: 194.860 ± 0.027 $\chi^2/\text{NDF}: 2580762.2/47$

All: 192.068 ± 0.019 $\chi^2/\text{NDF}: 4901229.6/90$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -836.936+/-84.156 χ^2/NDF : 759.4/19

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 485.106+/-77.607 χ^2/NDF : 3129.5/22

Left In: -374.122+/-52.049 χ^2/NDF :1801.0/22

Left: -72.006+/-37.325 χ^2/NDF : 3225.5/47

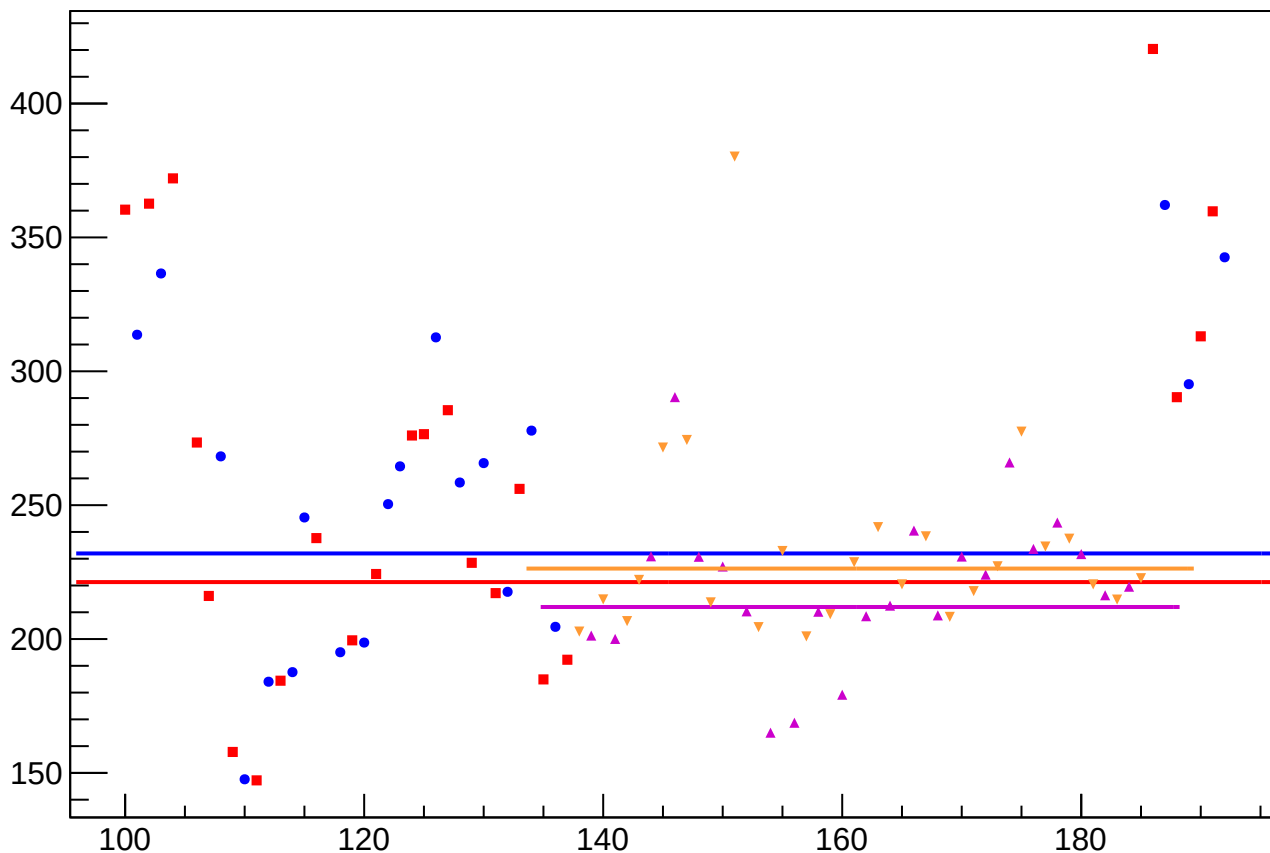
Right: -122.481+/-57.051 χ^2/NDF : 4022.3/42

In: -502.175+/-44.267 χ^2/NDF :2582.3/42

Out: 324.382+/-44.078 χ^2/NDF :4490.9/47

All: -87.135+/-31.234 χ^2/NDF : 7248.3/90

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 231.969 ± 0.060 χ^2/NDF : 945257.7/19

Left Out: 226.322 ± 0.038 χ^2/NDF : 521041.8/24

Right Out: 221.272 ± 0.055 χ^2/NDF : 1327158.5/22

Left In: 211.970 ± 0.037 χ^2/NDF : 584344.5/22

Left: 218.941 ± 0.026 χ^2/NDF : 1179246.7/47

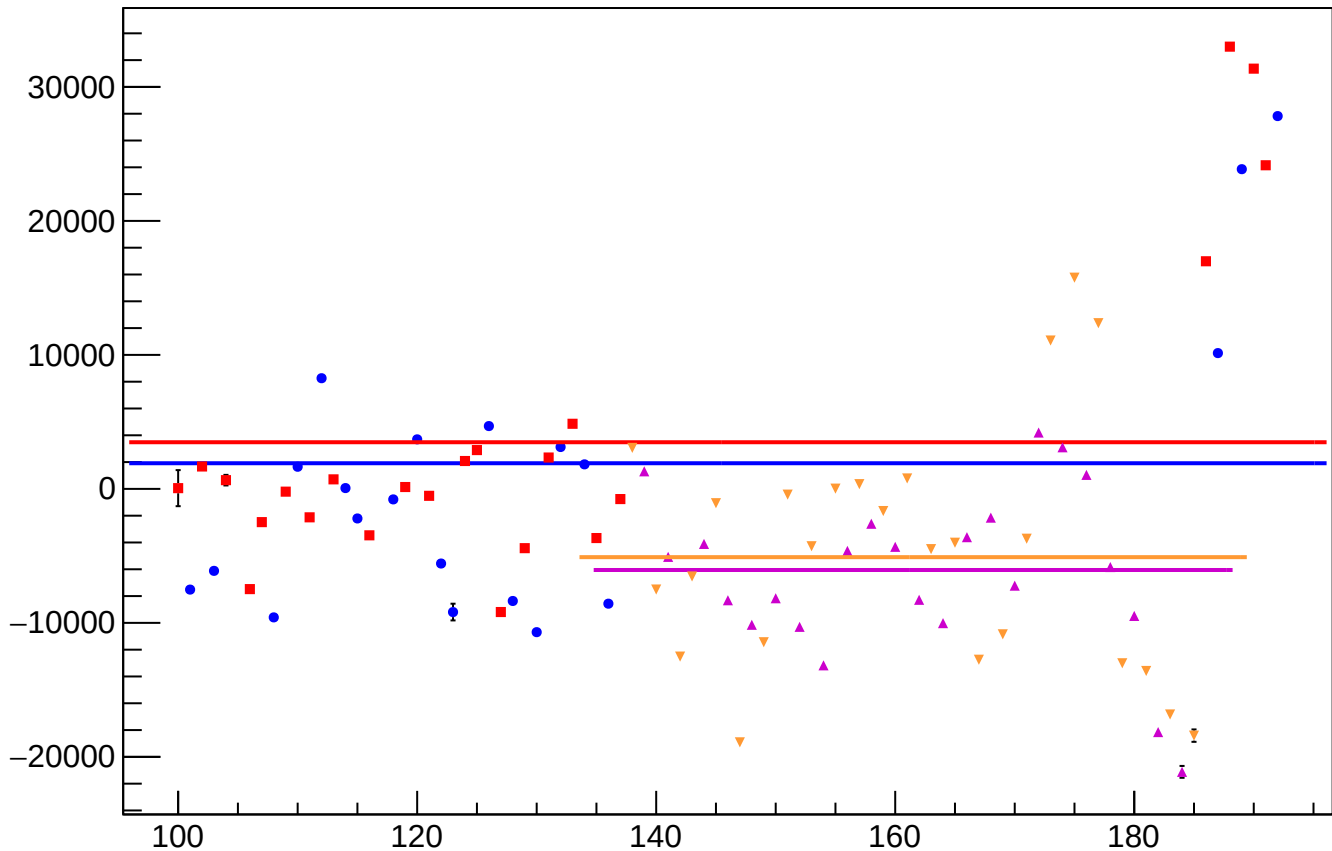
Right: 226.188 ± 0.040 χ^2/NDF : 2289880.1/42

In: 217.504 ± 0.031 χ^2/NDF : 1611300.5/42

Out: 224.693 ± 0.031 χ^2/NDF : 1853936.5/47

All: 221.114 ± 0.022 χ^2/NDF : 3491724.9/90

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1914.132 $\pm$ 43.764 χ^2/NDF : 66286.8/19

Left Out: -5095.305 $\pm$ 33.703 χ^2/NDF : 54395.4/24

Right Out: 3481.337 $\pm$ 41.177 χ^2/NDF : 79485.4/22

Left In: -6053.569 $\pm$ 34.998 χ^2/NDF : 17590.3/22

Left: -5556.386 $\pm$ 24.277 χ^2/NDF : 72374.6/47

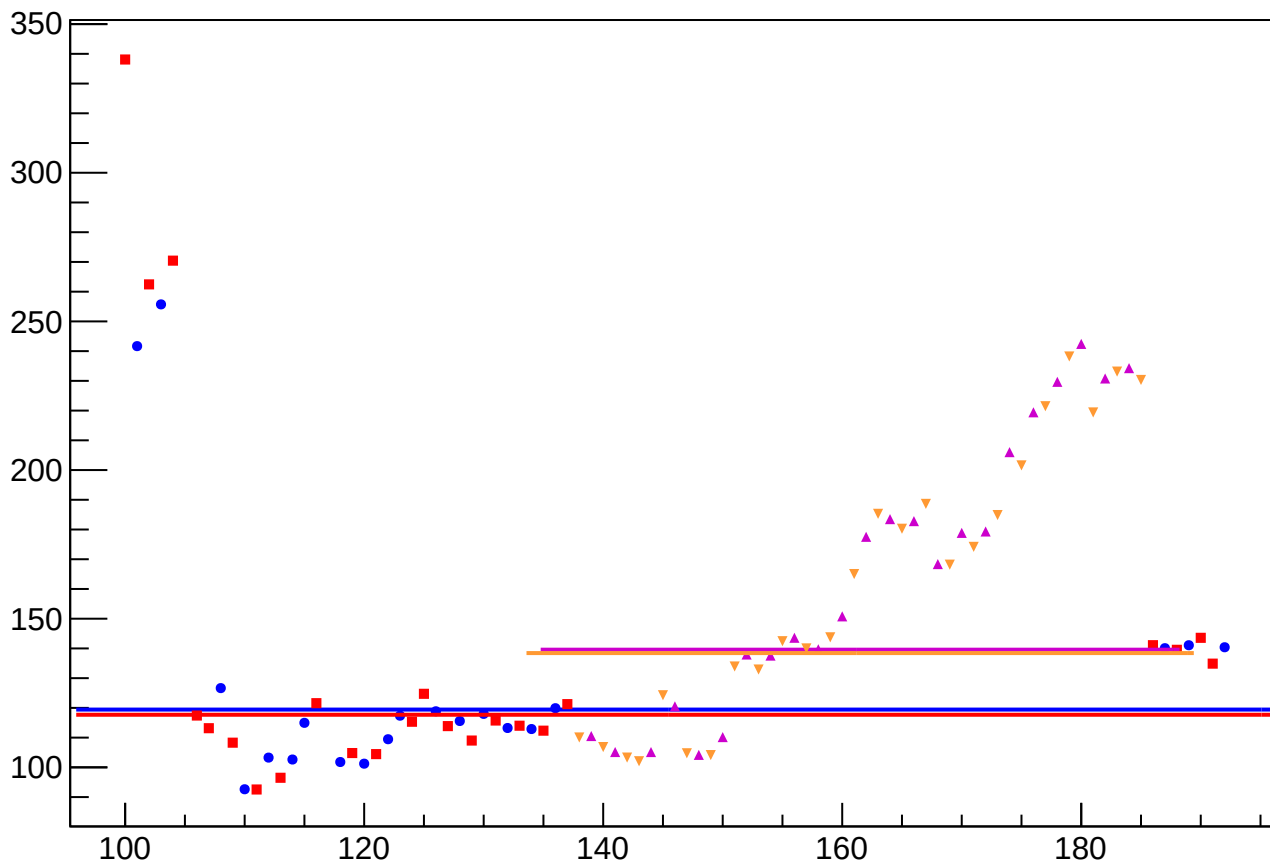
Right: 2745.412 $\pm$ 29.990 χ^2/NDF : 146452.4/42

In: -2945.642 $\pm$ 27.333 χ^2/NDF : 104094.0/42

Out: -1654.592 $\pm$ 26.081 χ^2/NDF : 159859.4/47

All: -2269.877 $\pm$ 18.869 χ^2/NDF : 265121.3/9

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 119.434+/-0.031 χ^2/NDF : 824616.6/19

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 117.693+/-0.029 χ^2/NDF : 908504.4/22

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

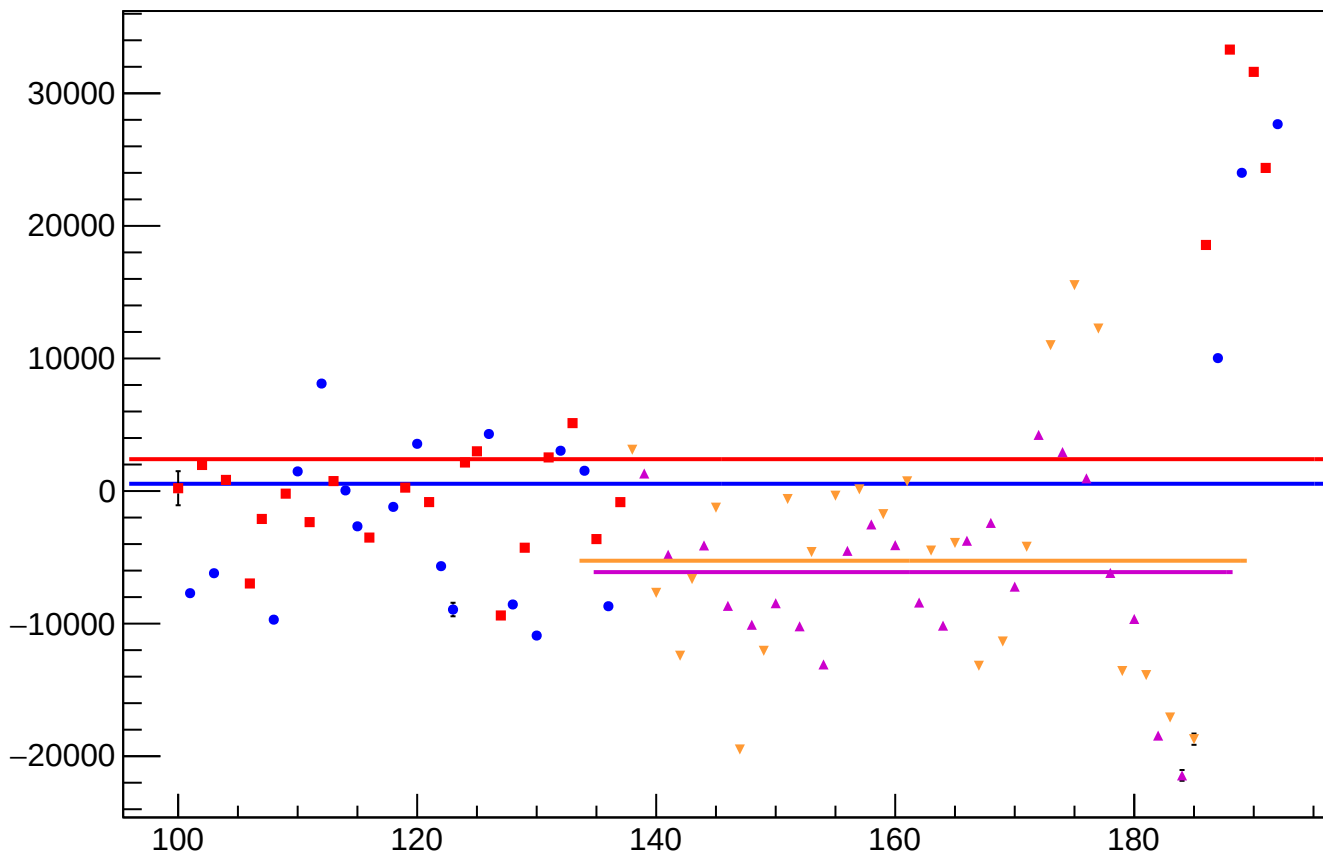
Right: 118.511+/-0.021 χ^2/NDF : 1734799.6/42

In: 131.720+/-0.019 χ^2/NDF : 3496715.8/42

Out: 130.114+/-0.018 χ^2/NDF : 3761845.4/47

All: 130.880+/-0.013 χ^2/NDF : 7262175.5/90

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 548.742+/-37.915 χ^2/NDF : 70775.0/19

Left Out: -5255.652+/-30.622 χ^2/NDF : 64324.6/24

Right Out: 2404.179+/-35.641 χ^2/NDF : 87939.3/22

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166 χ^2/NDF : 85960.3/47

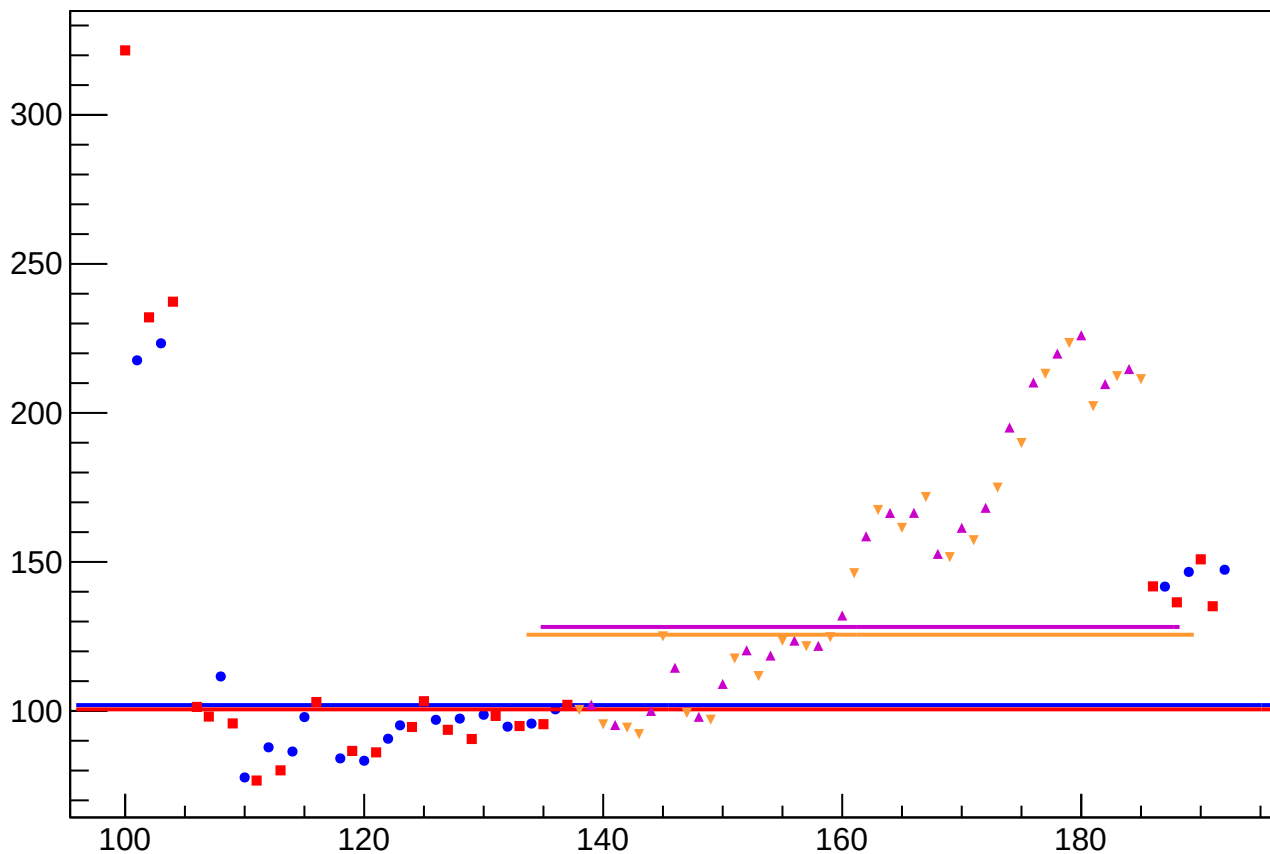
Right: 1533.763+/-25.969 χ^2/NDF : 159985.7/42

In: -3330.160+/-24.510 χ^2/NDF : 110016.1/42

Out: -2002.654+/-23.227 χ^2/NDF : 178836.7/47

All: -2630.733+/-16.859 χ^2/NDF : 290398.3/9

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 101.959+/-0.027 χ^2/NDF : 1131725.2/19

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 100.535+/-0.025 χ^2/NDF : 1196275.4/22

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

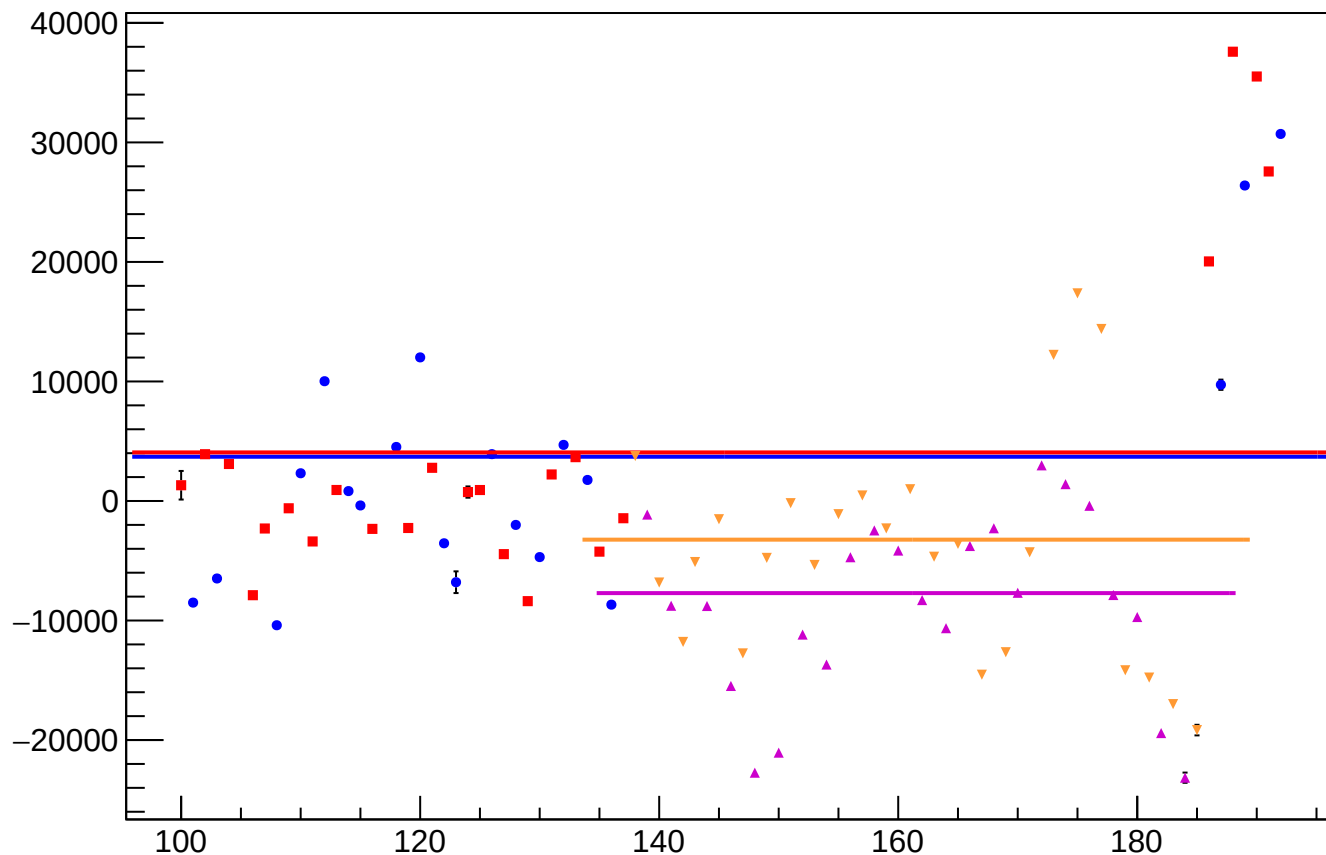
Right: 101.203+/-0.018 χ^2/NDF : 2329498.1/42

In: 117.224+/-0.017 χ^2/NDF : 4021648.9/42

Out: 114.942+/-0.016 χ^2/NDF : 4360050.8/47

All: 116.022+/-0.012 χ^2/NDF : 8390834.3/90

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 3702.733+/-50.846 χ^2/NDF : 52333.2/19

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 4064.203+/-47.947 χ^2/NDF : 73562.3/22

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

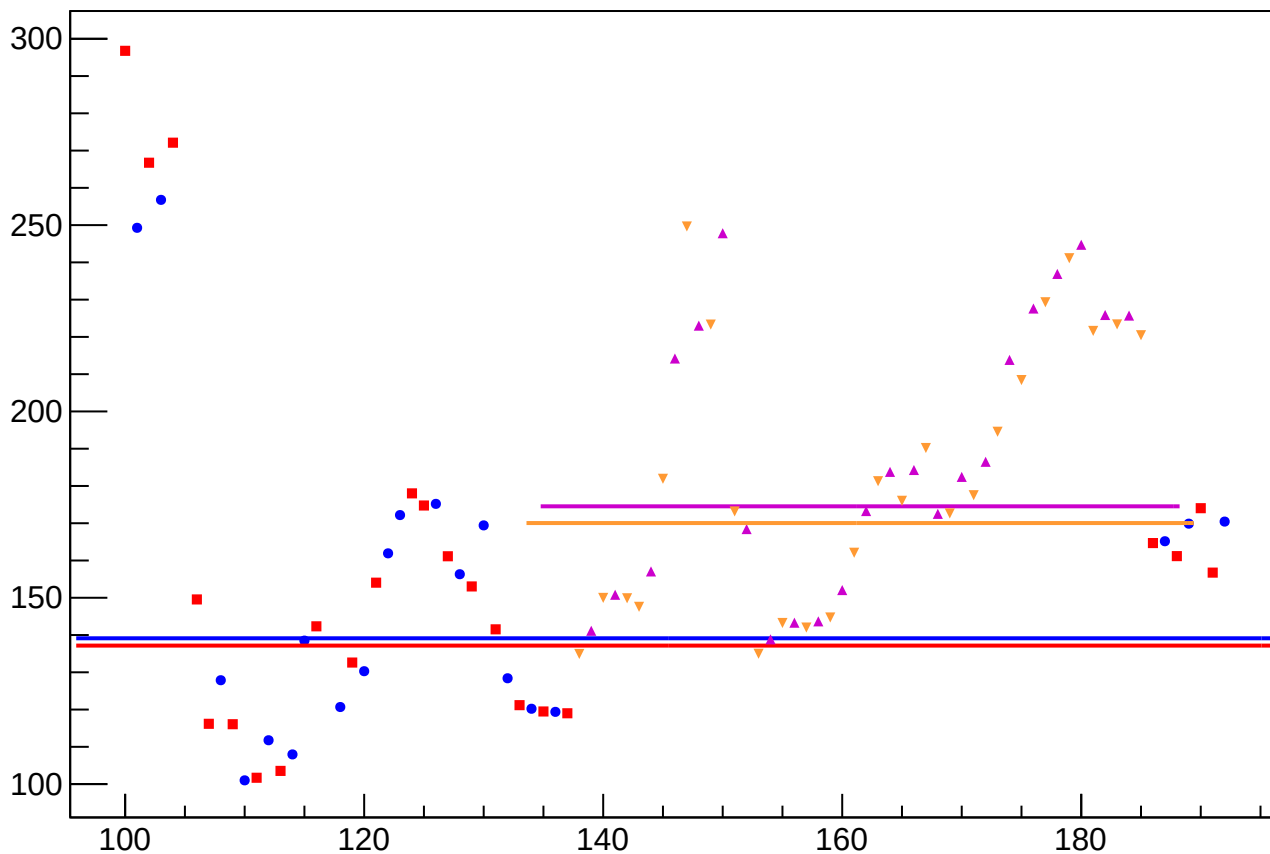
Right: 3894.066+/-34.883 χ^2/NDF : 125922.3/42

In: -2950.730+/-32.829 χ^2/NDF : 102965.7/42

Out: -188.346+/-30.976 χ^2/NDF : 123804.3/47

All: -1489.416+/-22.530 χ^2/NDF : 230515.7/9

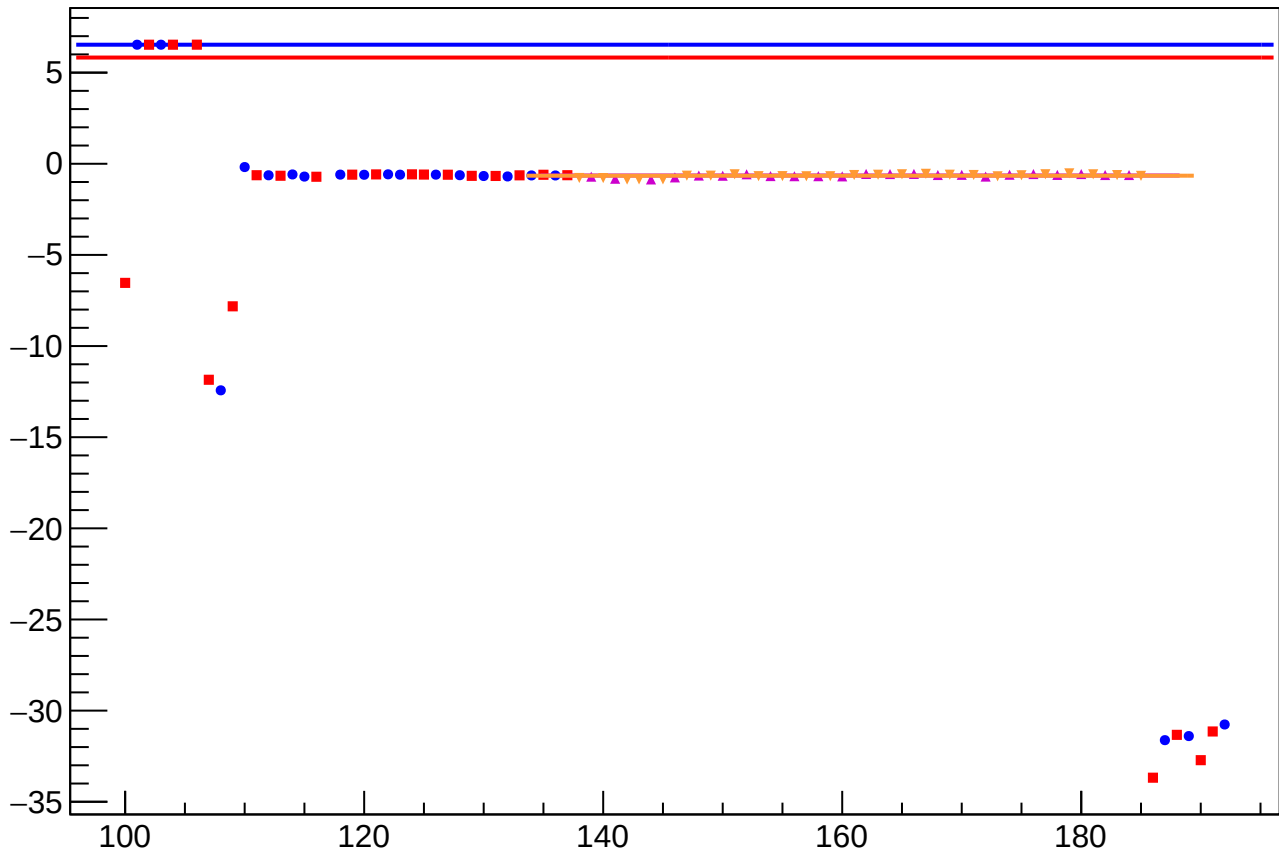
asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 139.127 $\pm$ 0.036 χ^2/NDF : 902325.3/19
 Left Out: 170.050 $\pm$ 0.029 χ^2/NDF : 1240866.9/24
 Right Out: 137.165 $\pm$ 0.034 χ^2/NDF : 982777.1/22
 Left In: 174.539 $\pm$ 0.030 χ^2/NDF : 1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2/NDF : 2462472.2/47
 Right: 138.089 $\pm$ 0.025 χ^2/NDF : 1886678.1/42
 In: 159.777 $\pm$ 0.023 χ^2/NDF : 2678114.8/42
 Out: 156.324 $\pm$ 0.022 χ^2/NDF : 2771757.4/47
 All: 157.950 $\pm$ 0.016 χ^2/NDF : 5461577.7/90

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127691620960.8/19

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947509385873.9/22

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

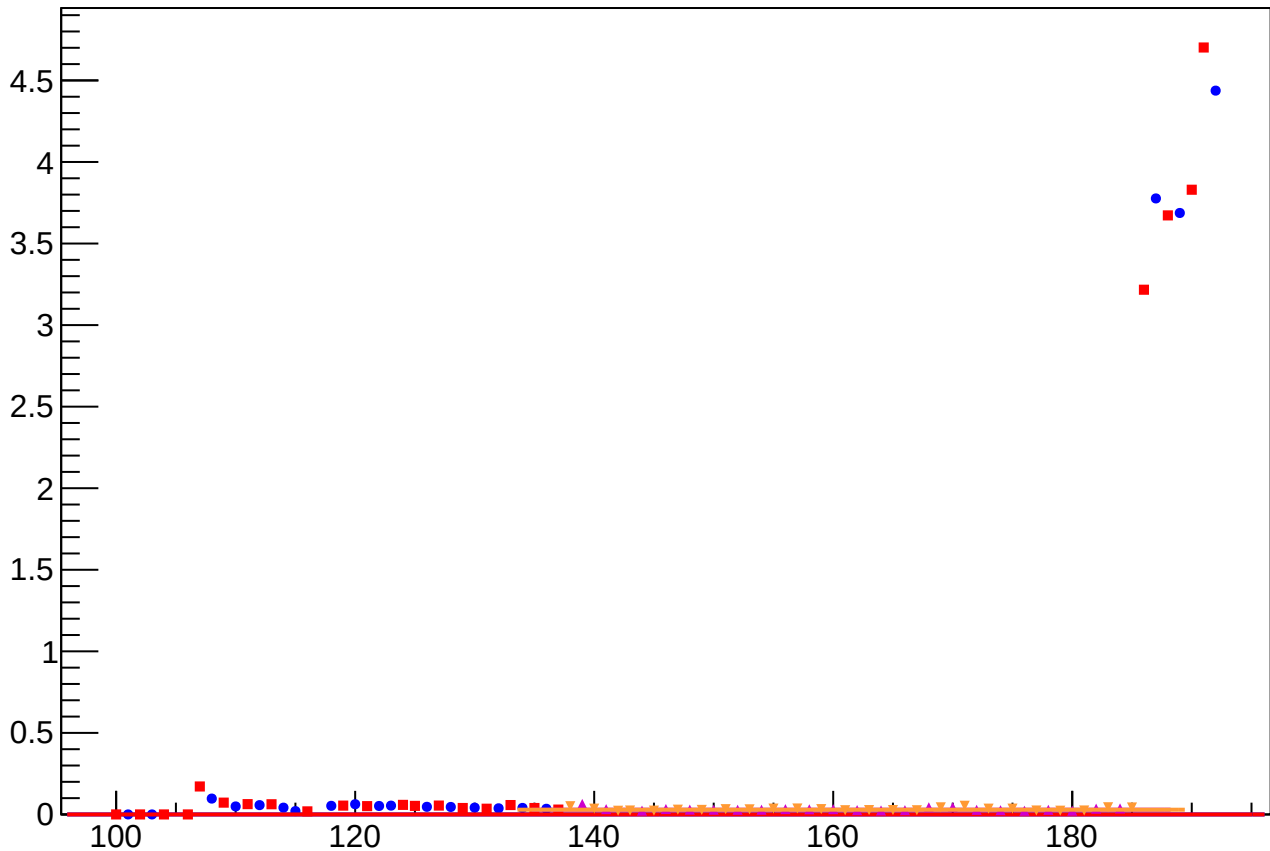
Right: 6.155+/-0.000 χ^2/NDF : 776078369159471.6/47

In: 6.530+/-0.000 χ^2/NDF : 953039028582.2/42

Out: 5.826+/-0.000 χ^2/NDF : 756656538051445.2/42

All: 6.153+/-0.000 χ^2/NDF : 77760173894994.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12008629.2/19

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12936644.1/22

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

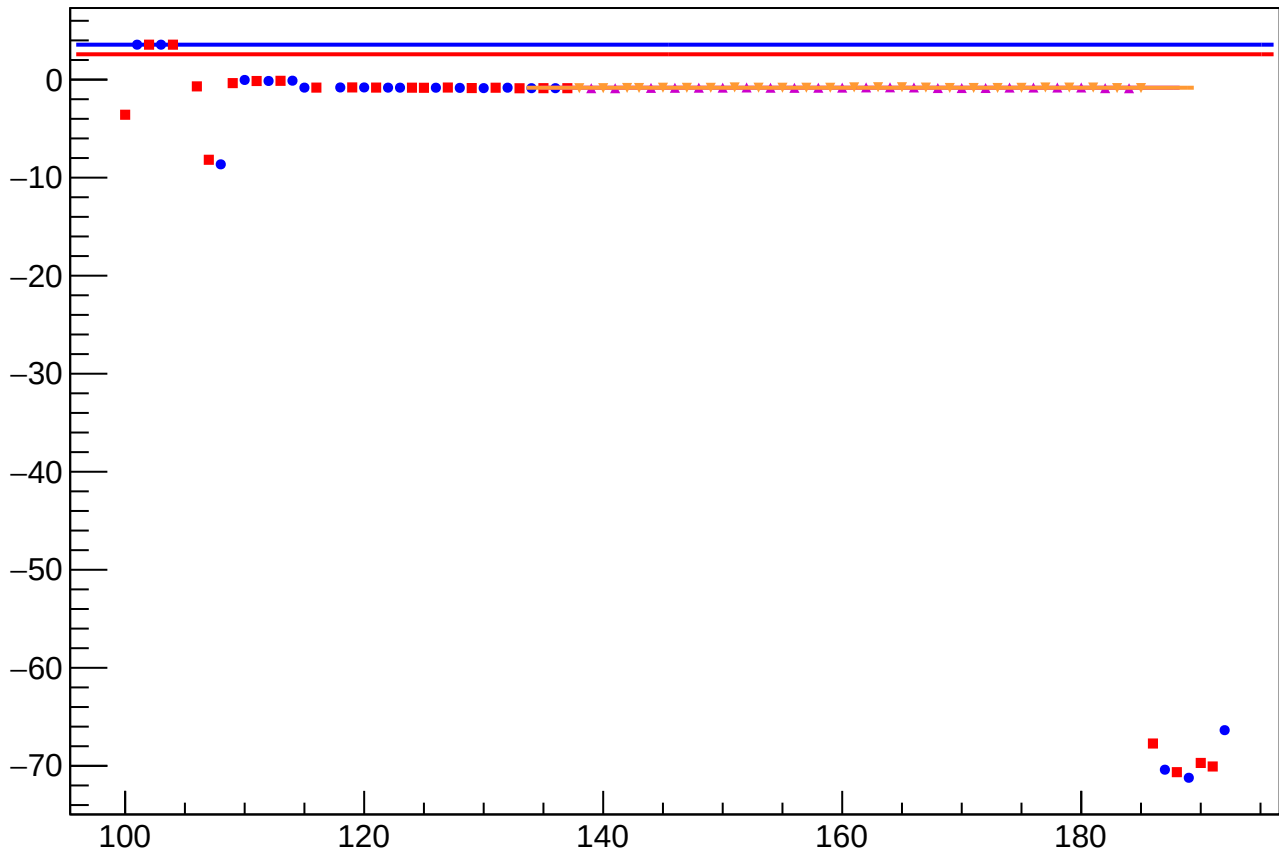
Right: 0.000+/-0.000 χ^2/NDF : 24945523.4/42

In: 0.000+/-0.000 χ^2/NDF :39970326.2/42

Out: 0.000+/-0.000 χ^2/NDF :42812335.4/47

All: 0.000+/-0.000 χ^2/NDF : 82783077.3/90

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 490257120877.1/19

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253507389920230.0/22

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

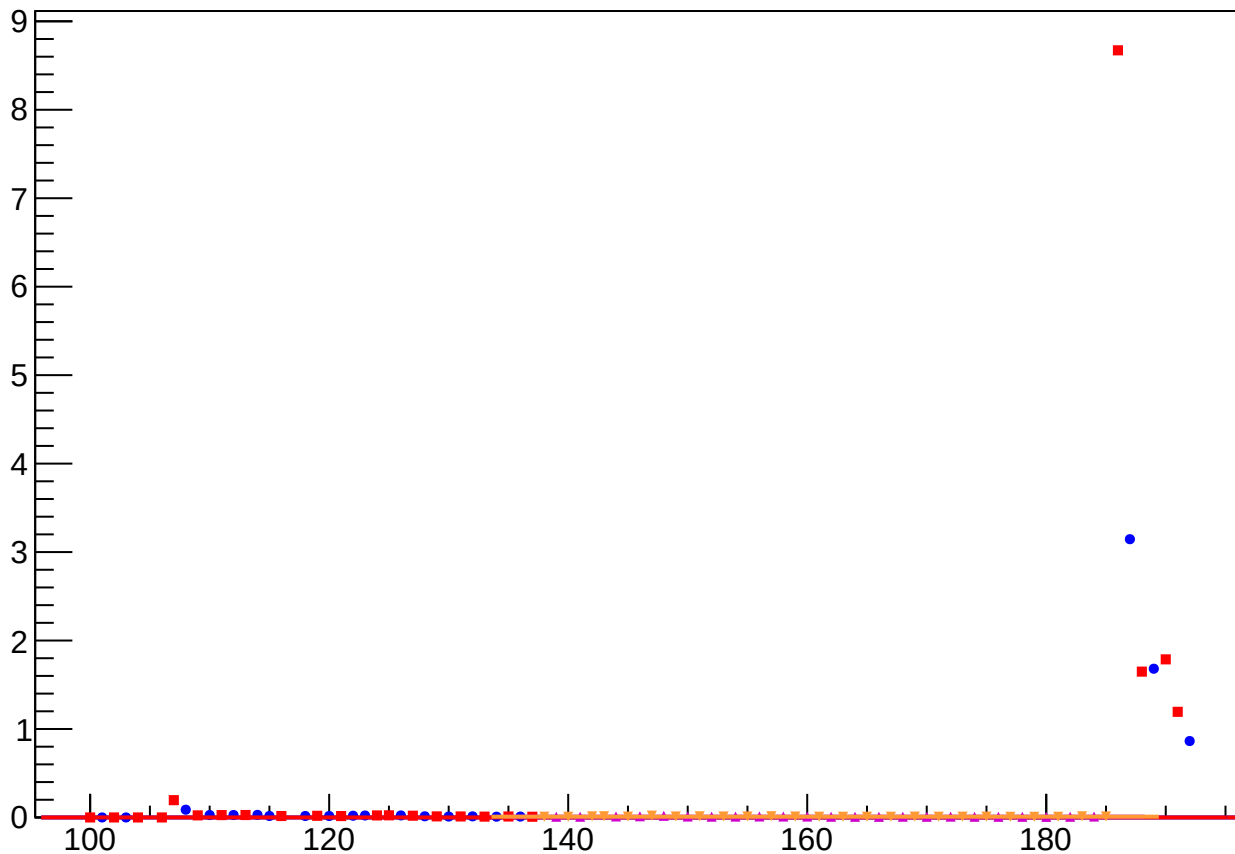
Right: 3.040+/-0.000 χ^2/NDF : 1382268792654056.0

In: 3.560+/-0.000 χ^2/NDF : 4136010056056.9/42

Out: 2.581+/-0.000 χ^2/NDF : 1255729722345232.0

All: 3.038+/-0.000 χ^2/NDF : 13879552676885.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12271644.6/19

Left Out: 0.009+/-0.000 χ^2/NDF : 1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 13114448.2/22

Left In: 0.009+/-0.000 χ^2/NDF : 1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

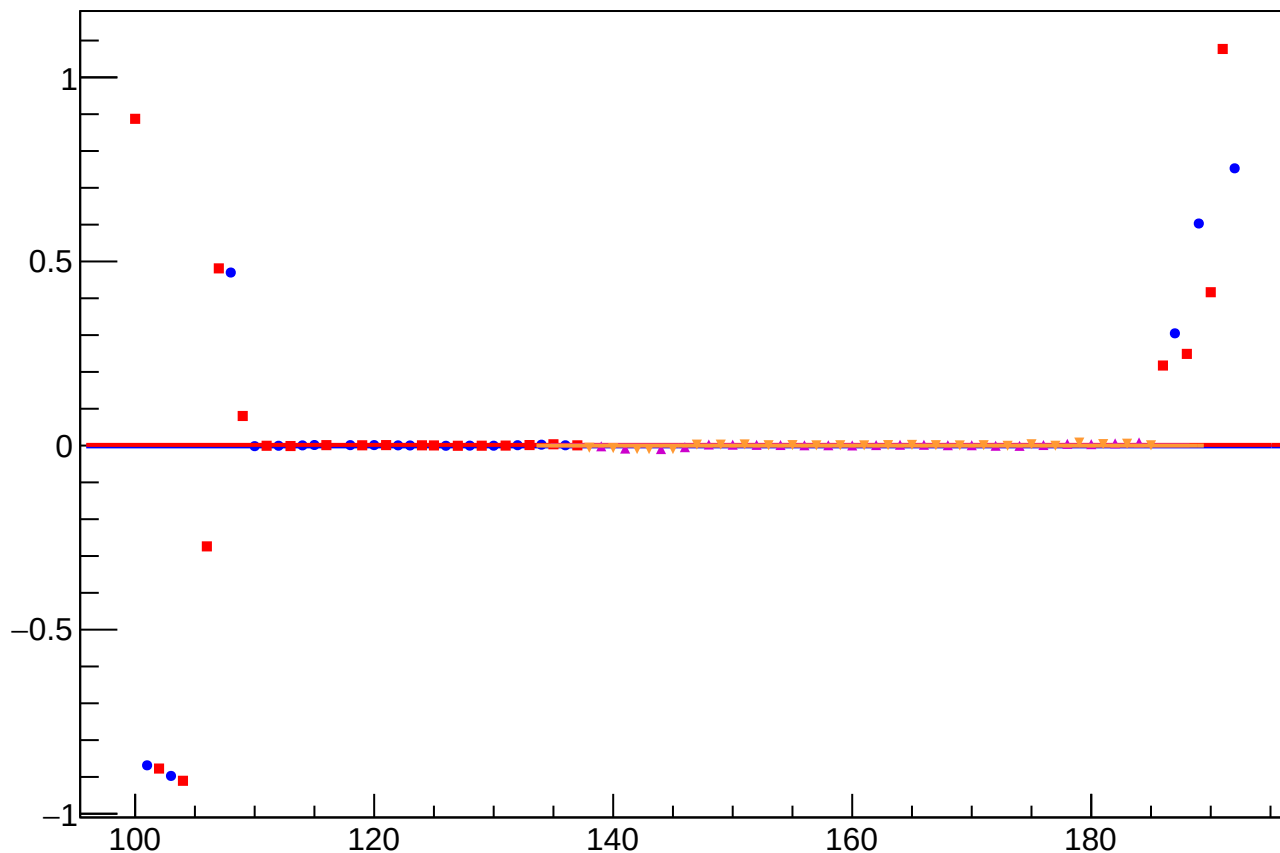
Right: 0.000+/-0.000 χ^2/NDF : 25386374.7/42

In: 0.000+/-0.000 χ^2/NDF : 41807771.6/42

Out: 0.000+/-0.000 χ^2/NDF : 44533144.3/47

All: 0.000+/-0.000 χ^2/NDF : 86341671.6/90

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795746641.5/19

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3041495544.5/22

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

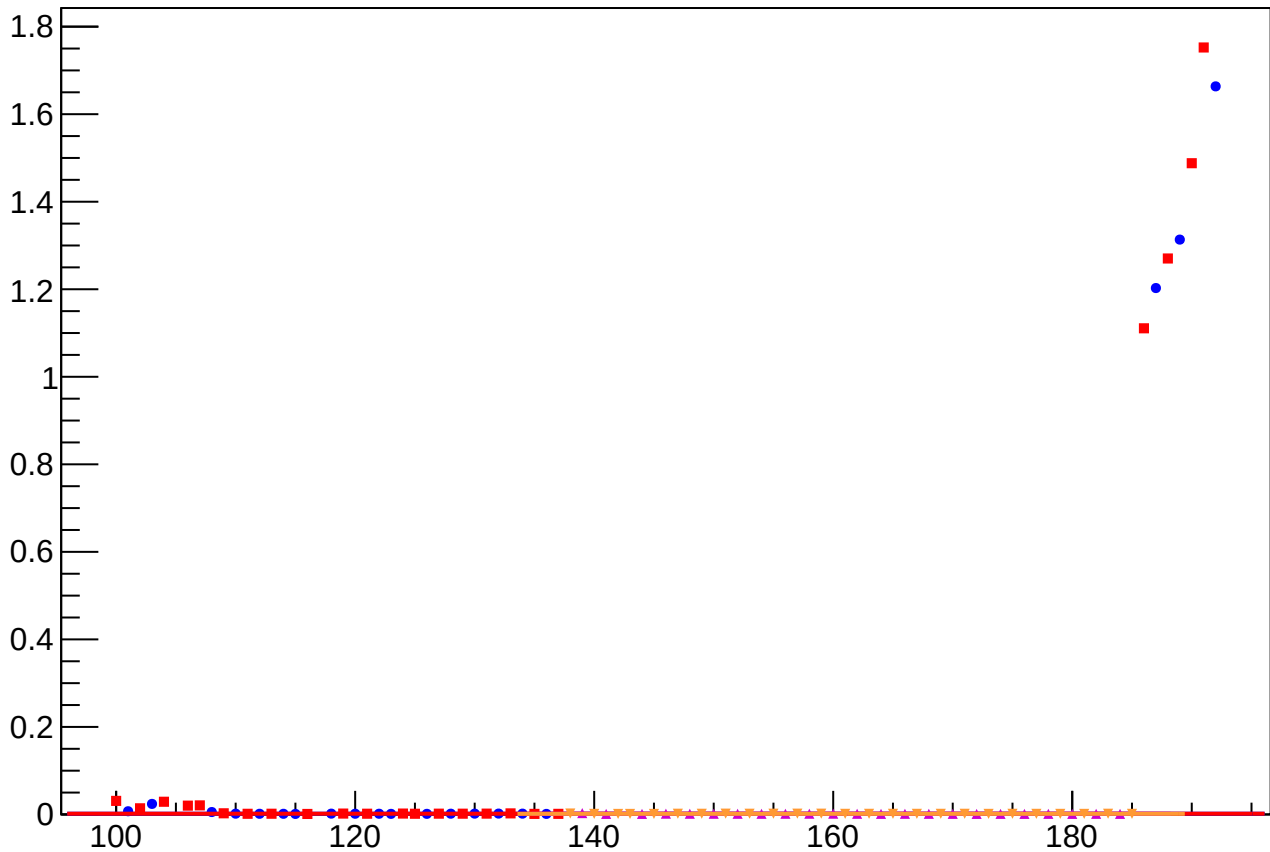
Right: -0.000+/-0.000 χ^2/NDF : 12851008823.1/42

In: -0.000+/-0.000 χ^2/NDF : 9908204150.4/42

Out: 0.000+/-0.000 χ^2/NDF : 3197705715.3/47

All: 0.000+/-0.000 χ^2/NDF : 13106246790.8/9

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4906072.5/19

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6586385.9/22

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

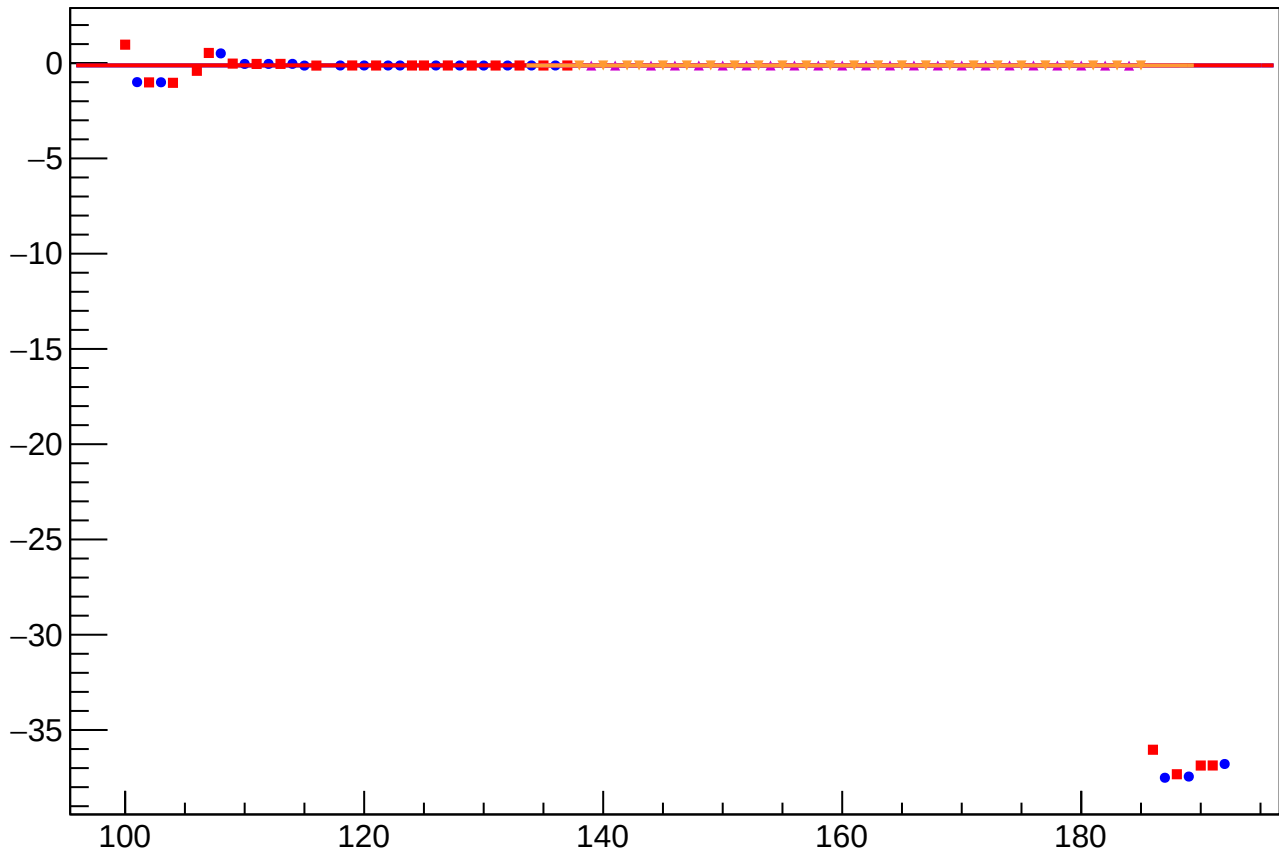
Right: 0.002+/-0.000 χ^2/NDF : 11500894.5/42

In: 0.002+/-0.000 χ^2/NDF : 5582453.3/42

Out: 0.002+/-0.000 χ^2/NDF : 7262668.5/47

All: 0.002+/-0.000 χ^2/NDF : 12846034.3/90

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 15362188217.5/19

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 10500826529.1/22

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

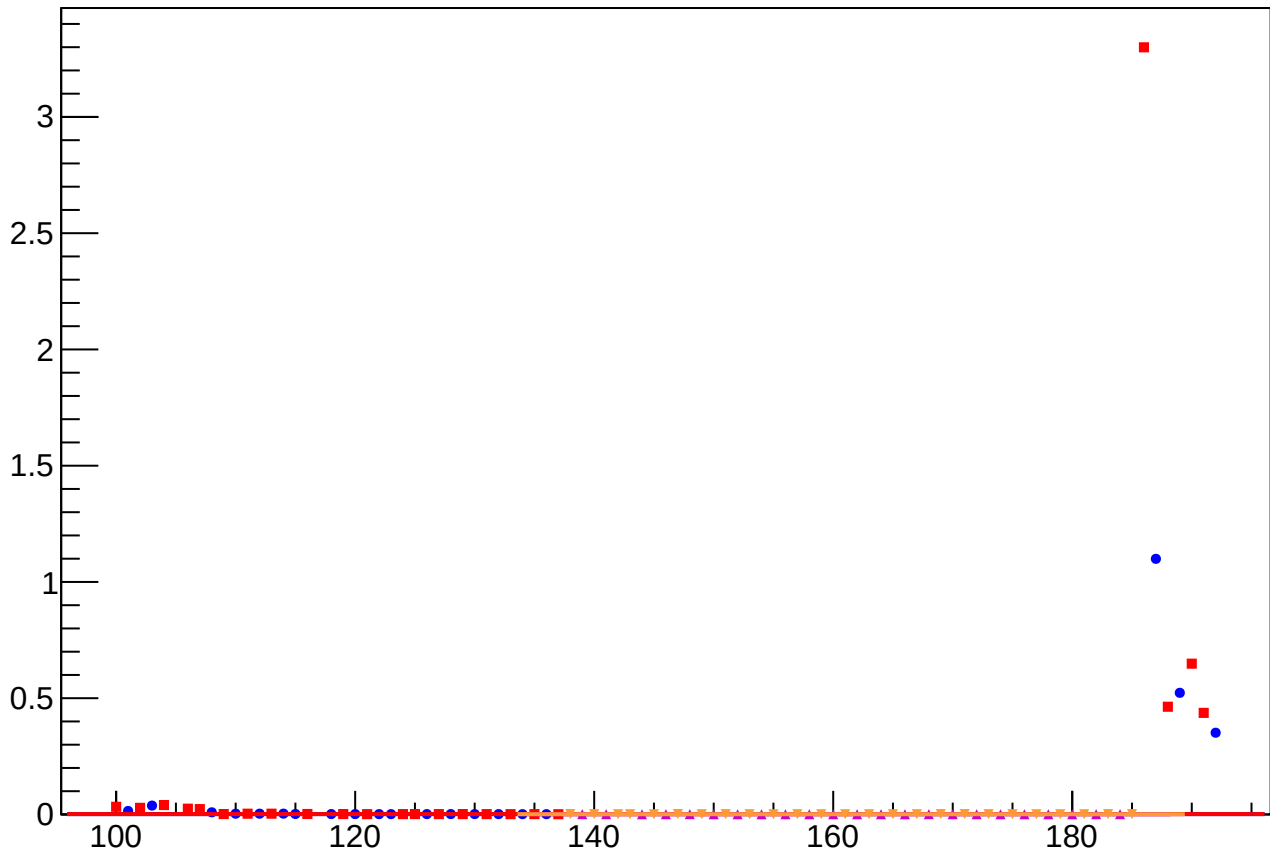
Right: -0.118+/-0.000 χ^2/NDF : 25886558744.9/42

In: -0.121+/-0.000 χ^2/NDF : 15414590066.7/42

Out: -0.121+/-0.000 χ^2/NDF : 10611975450.7/47

All: -0.121+/-0.000 χ^2/NDF : 26027554662.9/94

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5695126.0/19

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6989176.4/22

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

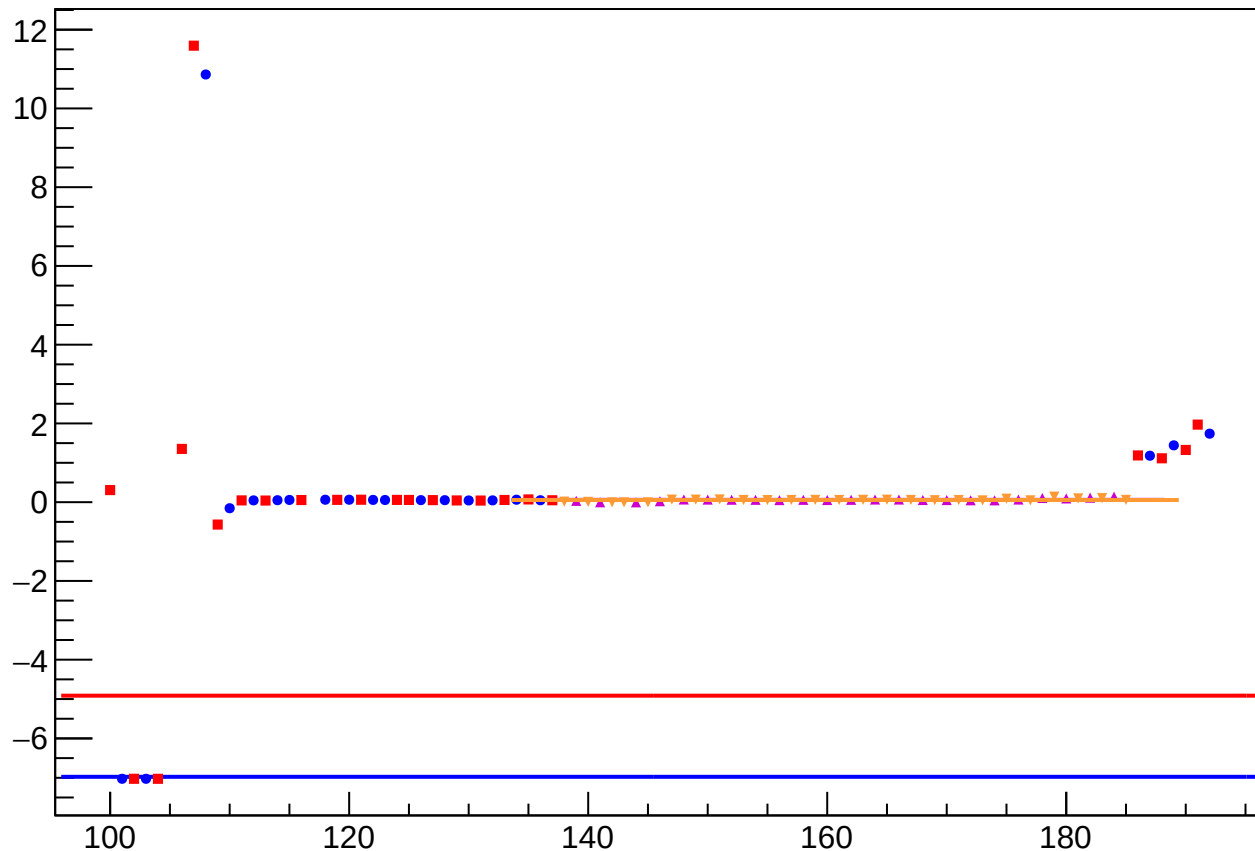
Right: 0.002+/-0.000 χ^2/NDF : 12684447.1/42

In: 0.001+/-0.000 χ^2/NDF :7812868.9/42

Out: 0.001+/-0.000 χ^2/NDF :9501666.1/47

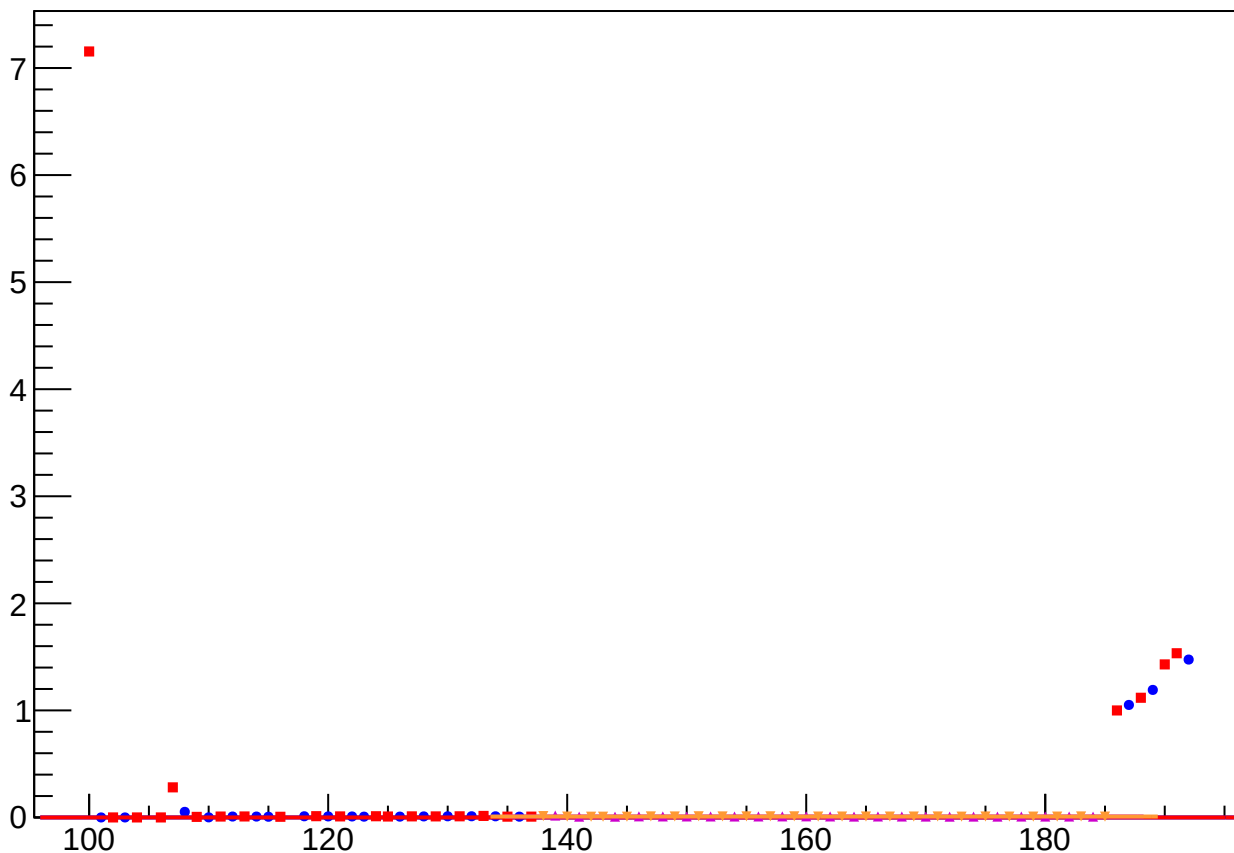
All: 0.001+/-0.000 χ^2/NDF : 17317110.3/90

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797420607899.0/19$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333380697957.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352705676011.7/22$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17552940336153.7/42$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165269864533.9/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435286738400.0/47$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11341686.2/19

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12353148.0/22

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

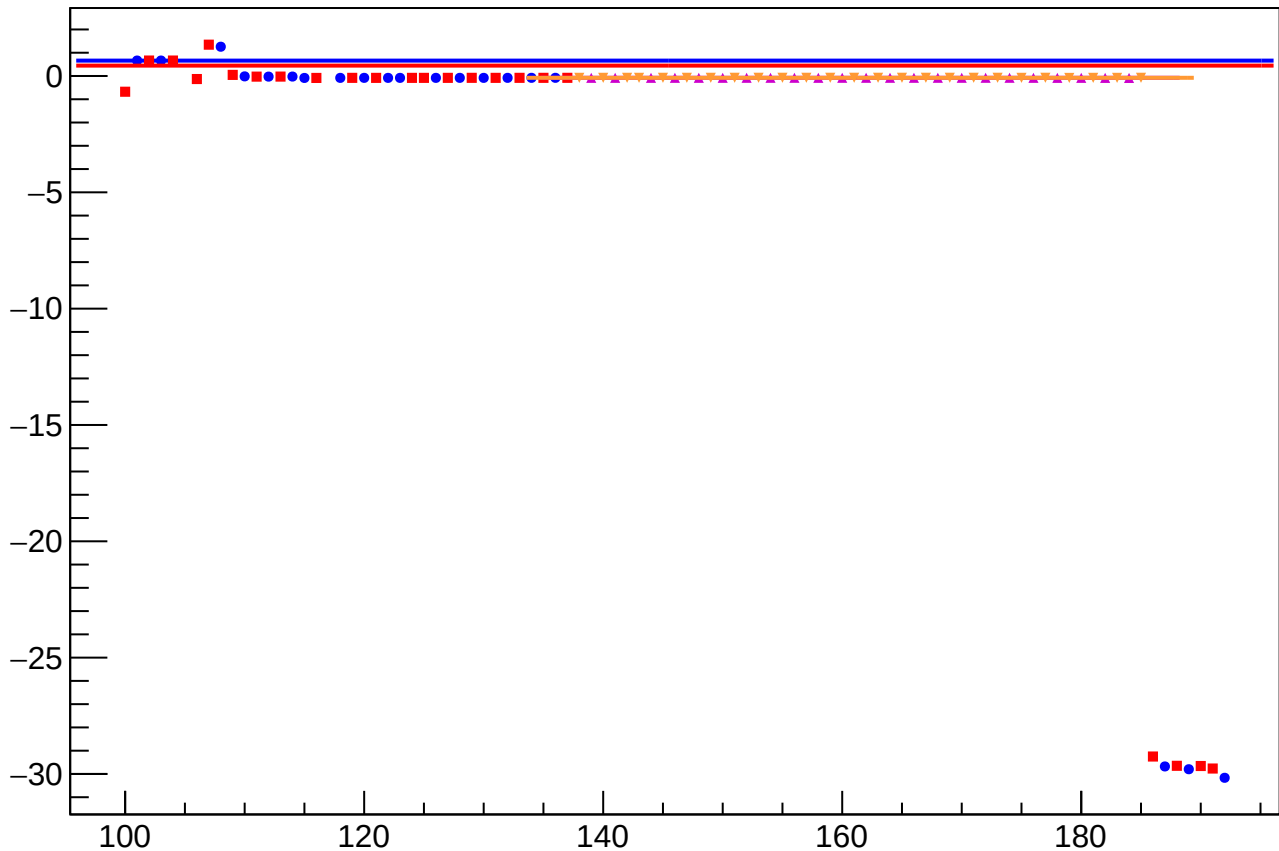
Right: 0.000+/-0.000 χ^2/NDF : 23695183.2/42

In: 0.000+/-0.000 χ^2/NDF :38760389.3/42

Out: 0.000+/-0.000 χ^2/NDF :41298088.9/47

All: 0.000+/-0.000 χ^2/NDF : 80058944.1/90

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000 χ^2/NDF : 5670140036068.3/19

Left Out: -0.078+/-0.000 χ^2/NDF : 156404795.7/24

Right Out: 0.446+/-0.000 χ^2/NDF : 405436328660663.9/22

Left In: -0.077+/-0.000 χ^2/NDF : 110762924.1/22

Left: -0.078+/-0.000 χ^2/NDF : 267206251.1/47

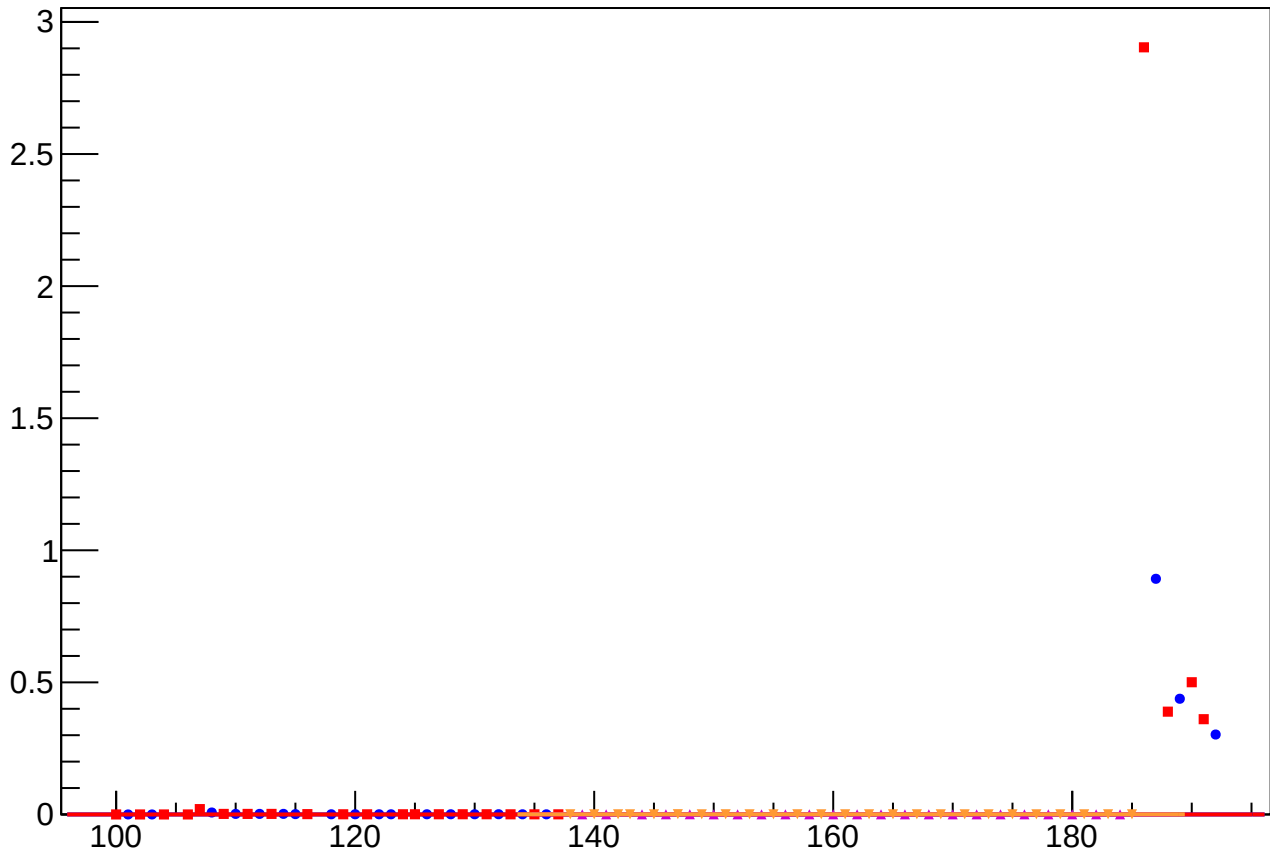
Right: 0.549+/-0.000 χ^2/NDF : 474019727741149.6/47

In: 0.647+/-0.000 χ^2/NDF : 33710864340917.9/42

Out: 0.436+/-0.000 χ^2/NDF : 420597442105025.4/42

All: 0.537+/-0.000 χ^2/NDF : 51586419457326.1/88

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12893945.9/19

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12977937.1/22

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

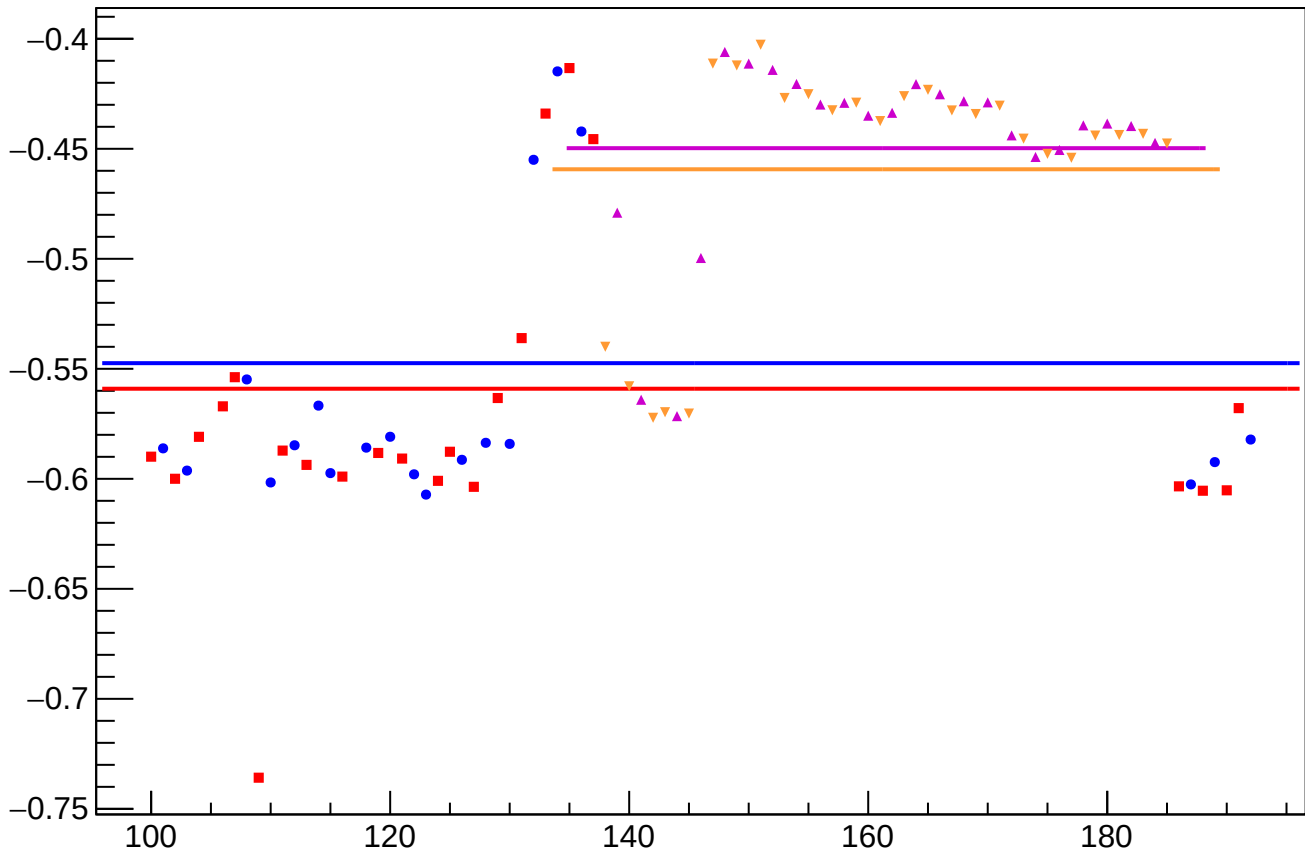
Right: 0.000+/-0.000 χ^2/NDF : 25871898.8/42

In: 0.000+/-0.000 χ^2/NDF : 43626908.2/42

Out: 0.000+/-0.000 χ^2/NDF : 45599819.1/47

All: 0.000+/-0.000 χ^2/NDF : 89227063.7/90

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547 $\pm$ 0.000 χ^2 /NDF: 47158276.5/19

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113602161.0/24

Right Out: -0.559 $\pm$ 0.000 χ^2 /NDF: 65515251.2/22

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF: 76117957.8/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191493218.8/47

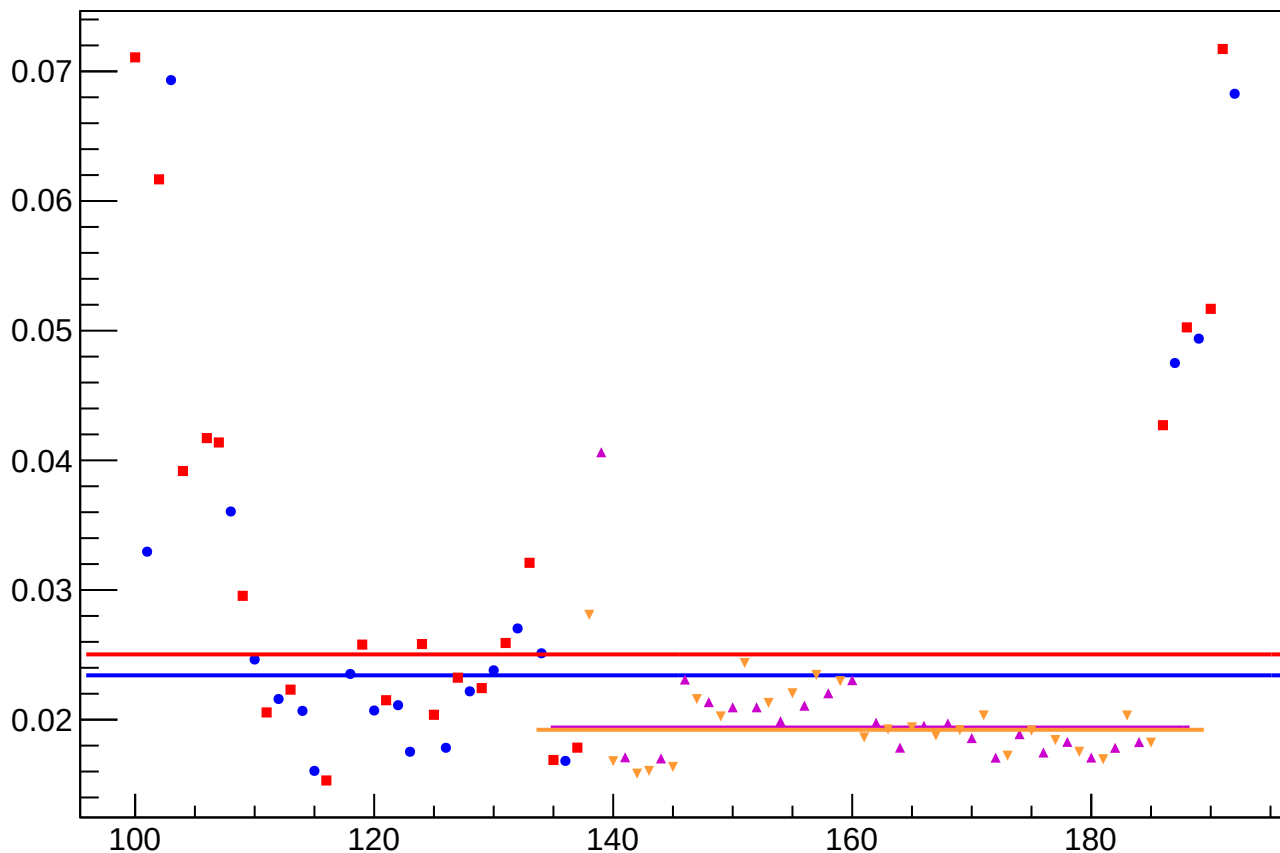
Right: -0.553 $\pm$ 0.000 χ^2 /NDF: 113398949.4/42

In: -0.472 $\pm$ 0.000 χ^2 /NDF: 204134433.2/42

Out: -0.480 $\pm$ 0.000 χ^2 /NDF: 262102019.1/47

All: -0.476 $\pm$ 0.000 χ^2 /NDF: 467812743.8/90

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2101580.8/19

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.025+/-0.000 χ^2/NDF : 2147866.2/22

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

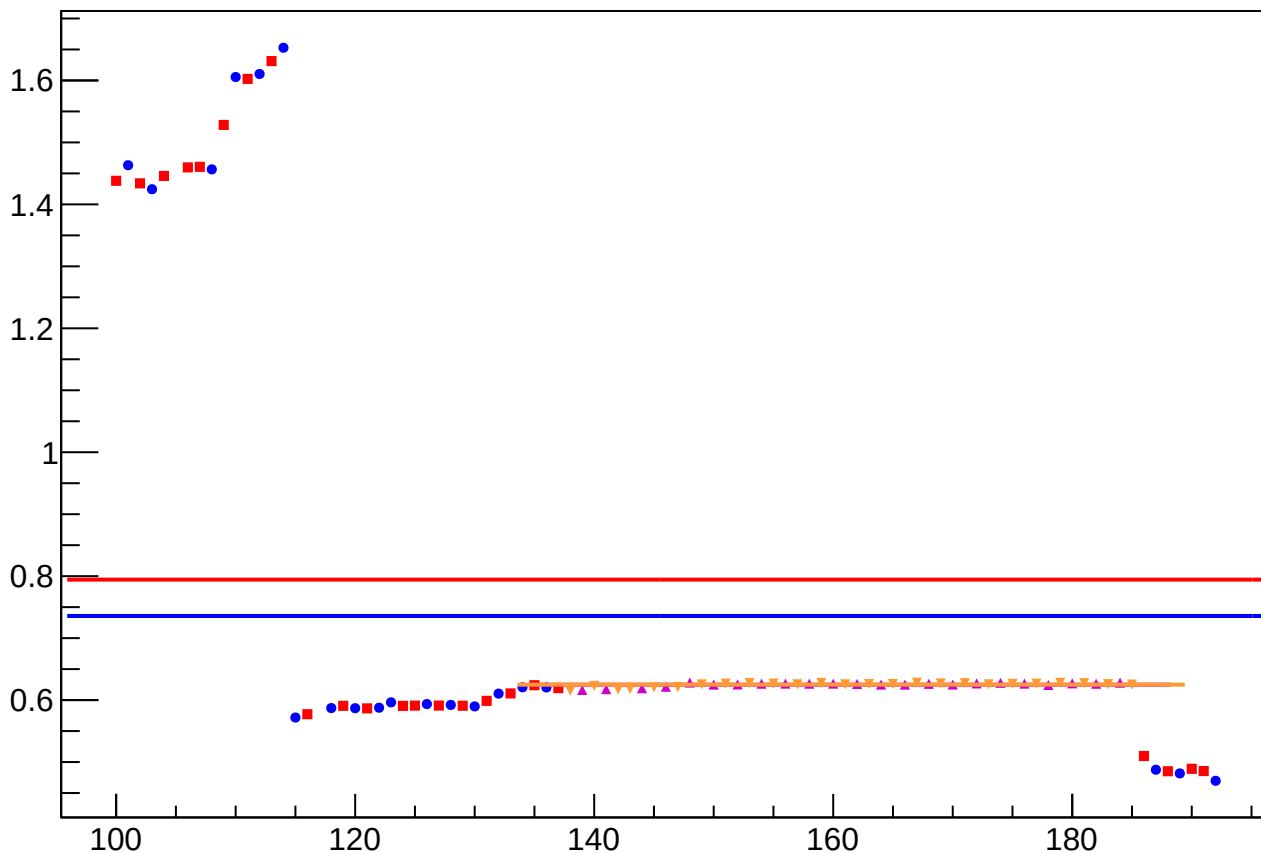
Right: 0.024+/-0.000 χ^2/NDF : 4277430.3/42

In: 0.020+/-0.000 χ^2/NDF : 3002455.9/42

Out: 0.020+/-0.000 χ^2/NDF : 3213407.8/47

All: 0.020+/-0.000 χ^2/NDF : 6216502.1/90

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.736 $\pm$ 0.000 χ^2 /NDF: 4050680870.5/19

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.794 $\pm$ 0.000 χ^2 /NDF: 4534891841.5/22

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

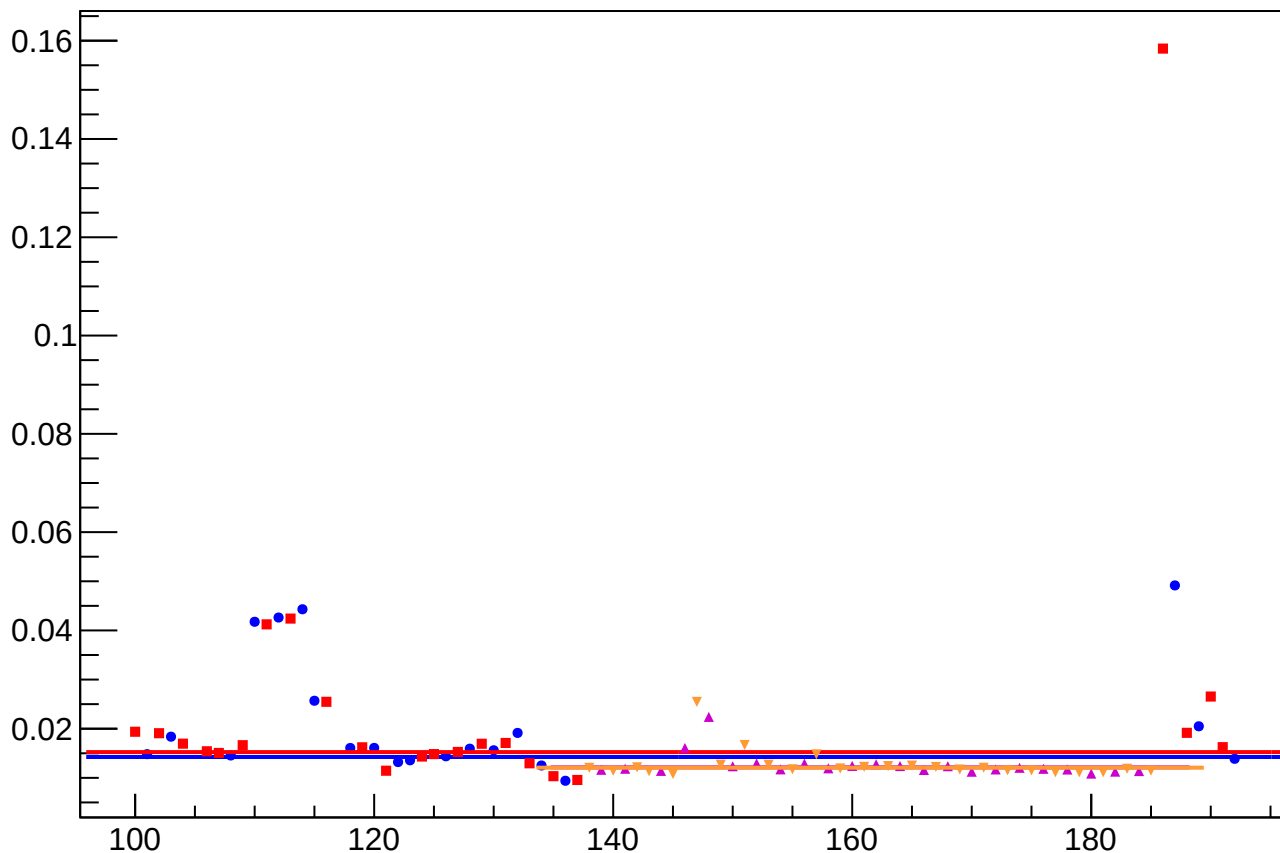
Right: 0.764 $\pm$ 0.000 χ^2 /NDF: 8642232738.0/42

In: 0.651 $\pm$ 0.000 χ^2 /NDF:4376713277.9/42

Out: 0.660 $\pm$ 0.000 χ^2 /NDF:5254304119.5/47

All: 0.655 $\pm$ 0.000 χ^2 /NDF: 9637406621.3/90

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1623164.0/19

Left Out: 0.012+/-0.000 χ^2/NDF : 657199.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2040544.4/22

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1146061.0/47

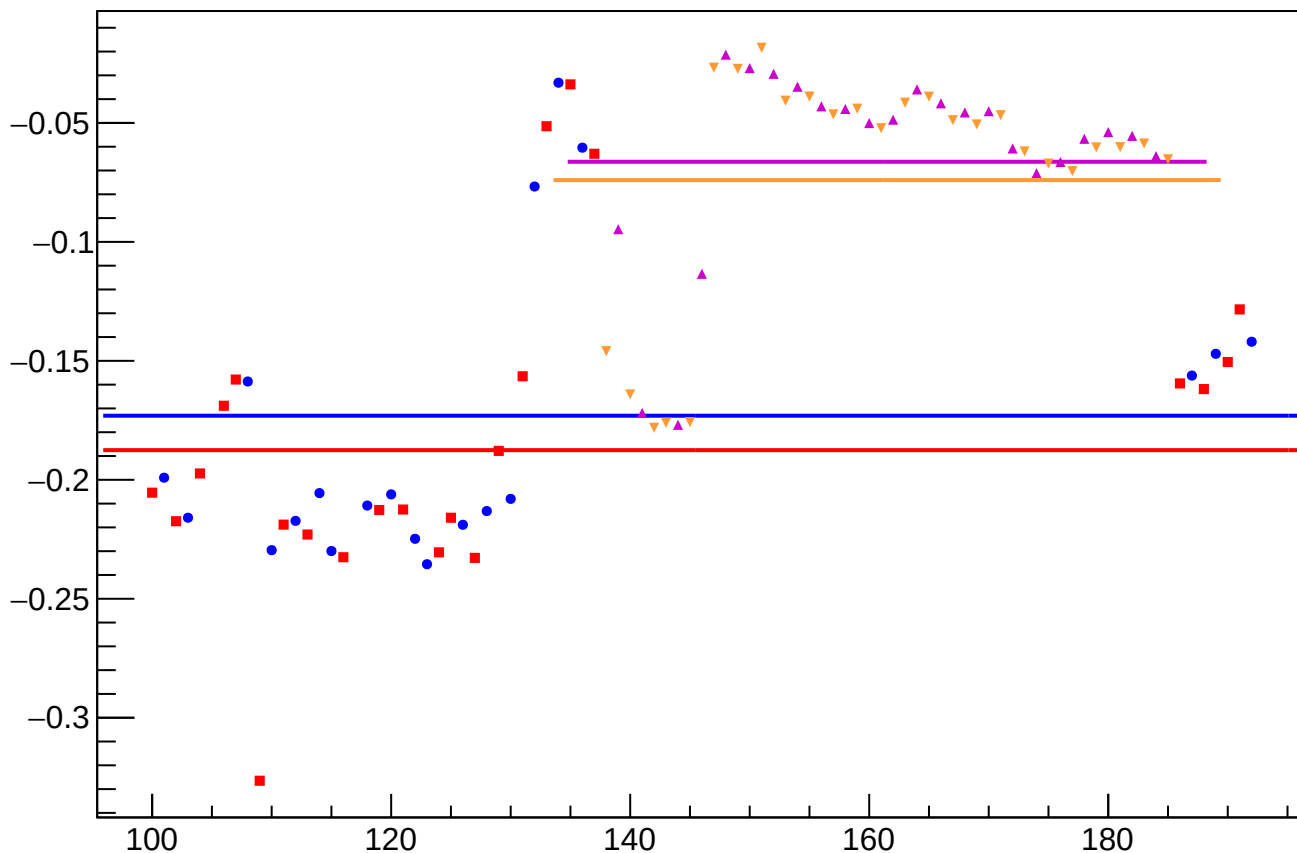
Right: 0.015+/-0.000 χ^2/NDF : 3696631.4/42

In: 0.013+/-0.000 χ^2/NDF : 2346118.6/42

Out: 0.013+/-0.000 χ^2/NDF : 3200838.4/47

All: 0.013+/-0.000 χ^2/NDF : 5548415.4/90

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.173+/-0.000 χ^2/NDF : 67108852.1/19

Left Out: -0.074+/-0.000 χ^2/NDF :107676601.9/24

Right Out: -0.188+/-0.000 χ^2/NDF : 82651040.1/22

Left In: -0.066+/-0.000 χ^2/NDF :76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

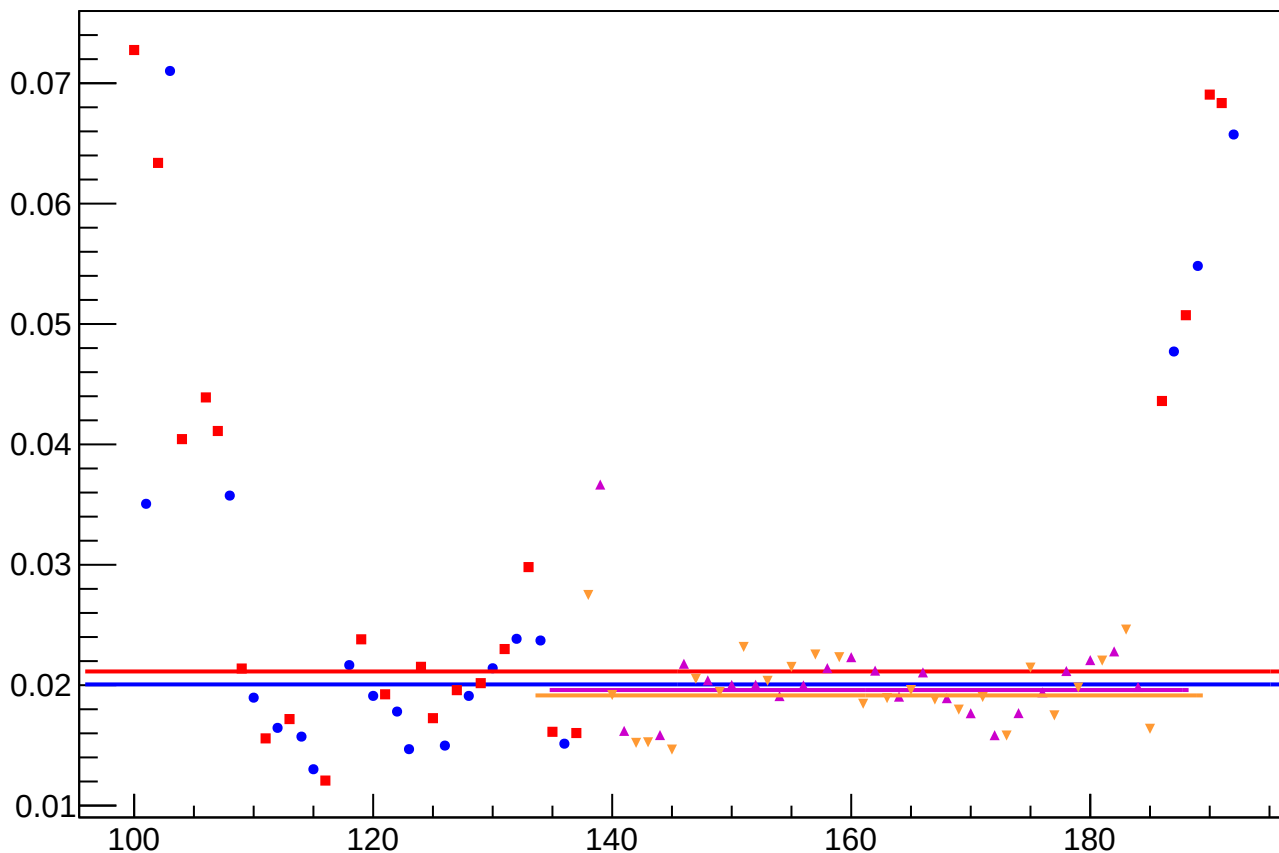
Right: -0.180+/-0.000 χ^2/NDF : 151248525.4/42

In: -0.096+/-0.000 χ^2/NDF :261760909.9/42

Out: -0.103+/-0.000 χ^2/NDF :325189581.8/47

All: -0.100+/-0.000 χ^2/NDF : 588152907.9/90

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2579432.1/19

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2844857.5/22

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

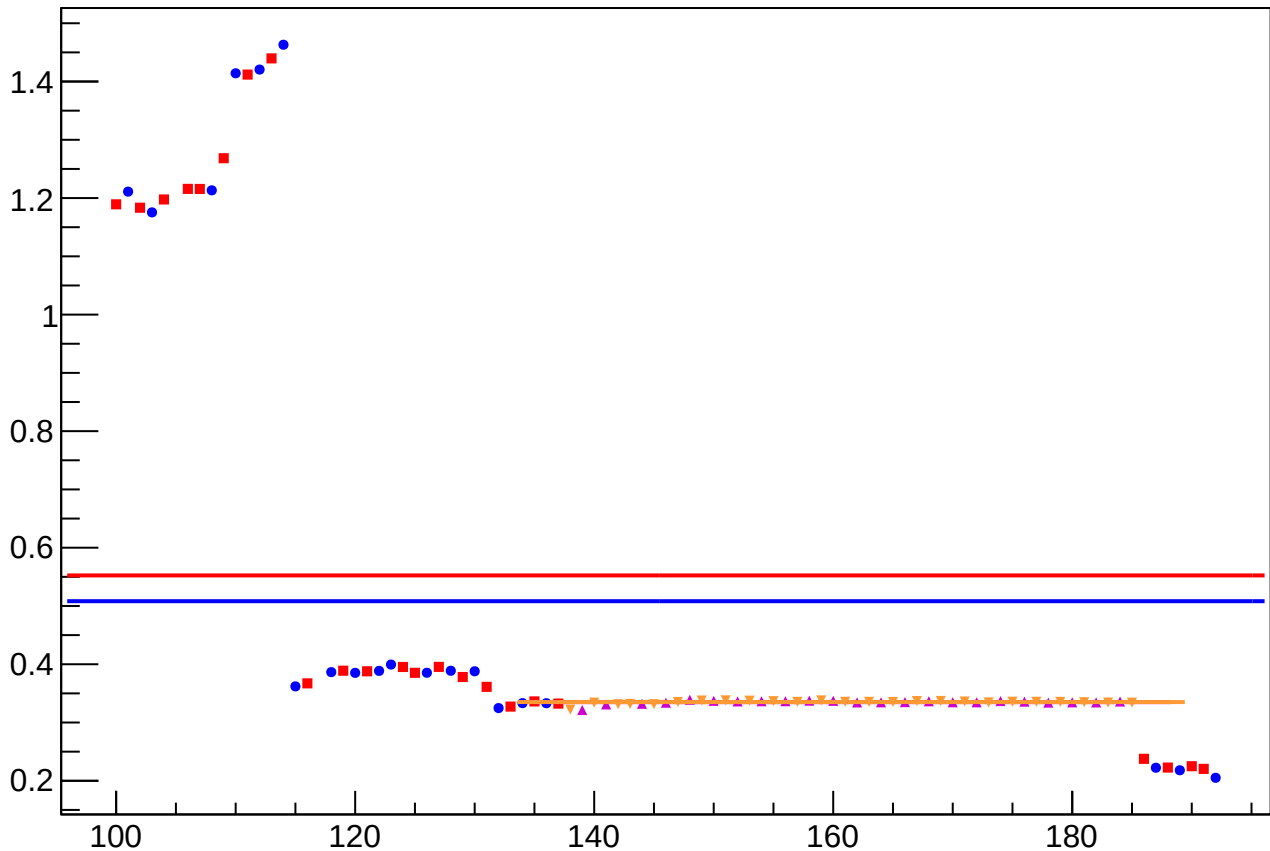
Right: 0.021+/-0.000 χ^2/NDF : 5440781.4/42

In: 0.020+/-0.000 χ^2/NDF : 3207098.3/42

Out: 0.020+/-0.000 χ^2/NDF : 3569057.2/47

All: 0.020+/-0.000 χ^2/NDF : 6776427.1/90

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.508 $\pm$ 0.000 χ^2 /NDF: 5805810427.7/19

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1154310.3/24

Right Out: 0.552 $\pm$ 0.000 χ^2 /NDF: 6280368764.0/22

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2356931.1/47

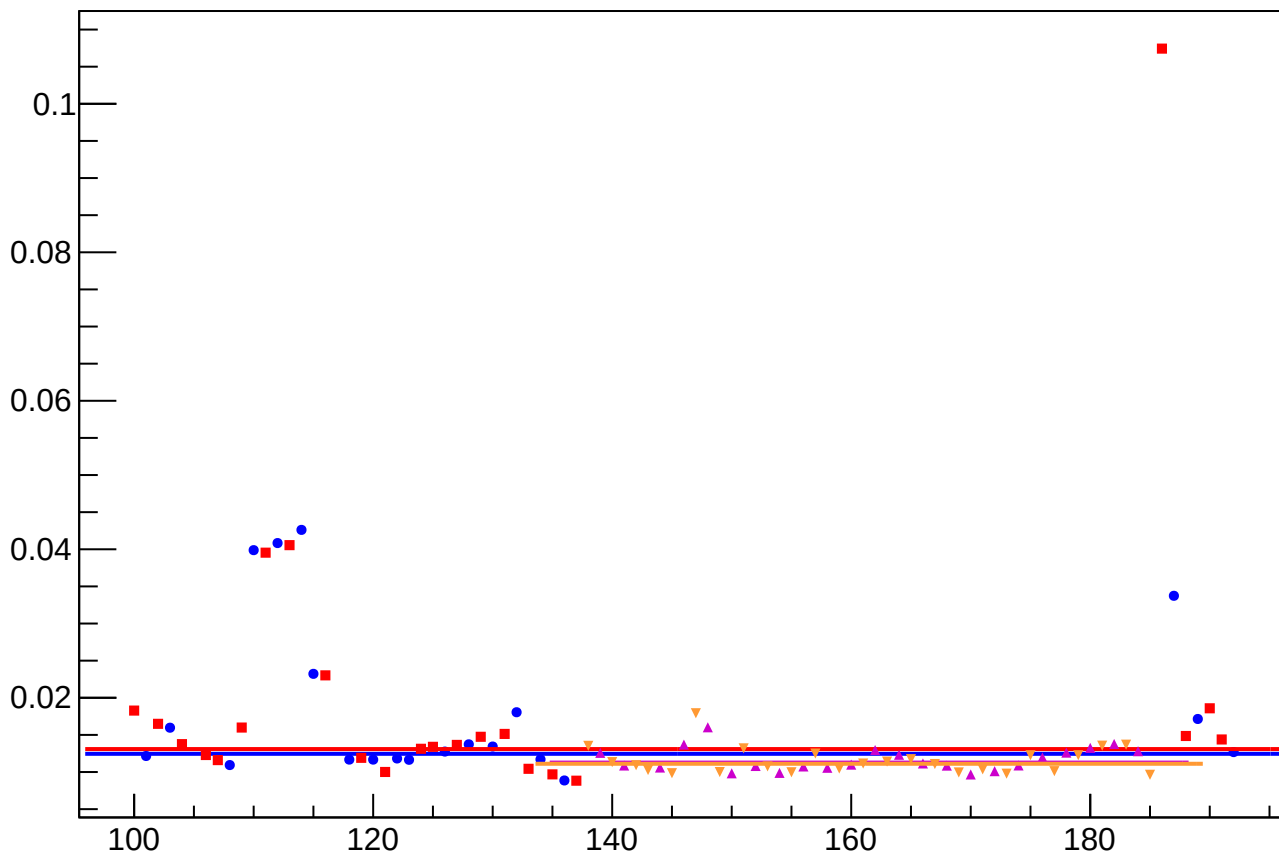
Right: 0.530 $\pm$ 0.000 χ^2 /NDF: 12129175410.1/42

In: 0.380 $\pm$ 0.000 χ^2 /NDF:6815207842.2/42

Out: 0.385 $\pm$ 0.000 χ^2 /NDF:7829699914.4/47

All: 0.383 $\pm$ 0.000 χ^2 /NDF: 14647719702.1/9

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1491966.3/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:607532.0/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1918182.1/22

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502455.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1113465.5/47

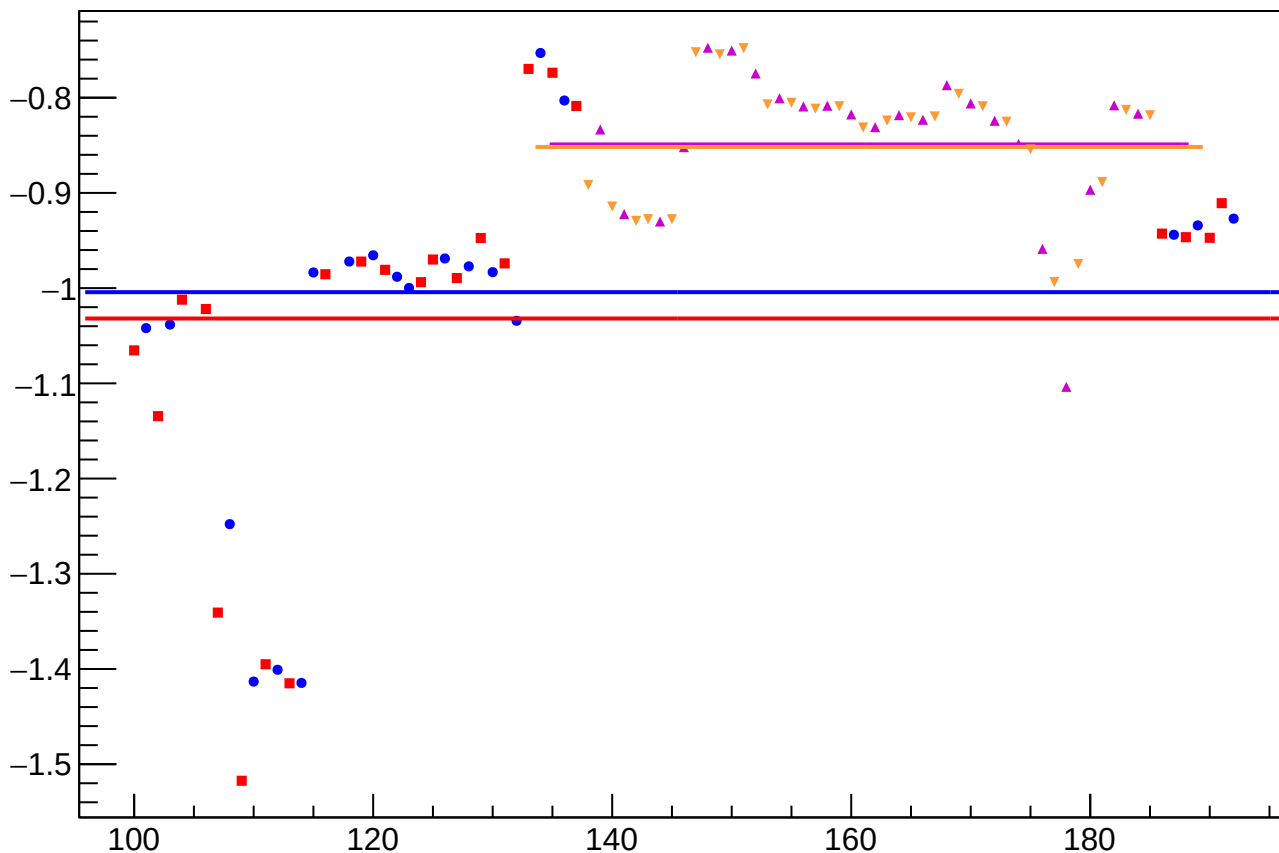
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3428103.8/42

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2088176.7/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2782782.9/47

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4870968.8/90

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 ± 0.000 χ^2/NDF : 396099140.6/19

Left Out: -0.852 ± 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.032 ± 0.000 χ^2/NDF : 541881238.8/22

Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 ± 0.000 χ^2/NDF : 445636655.2/47

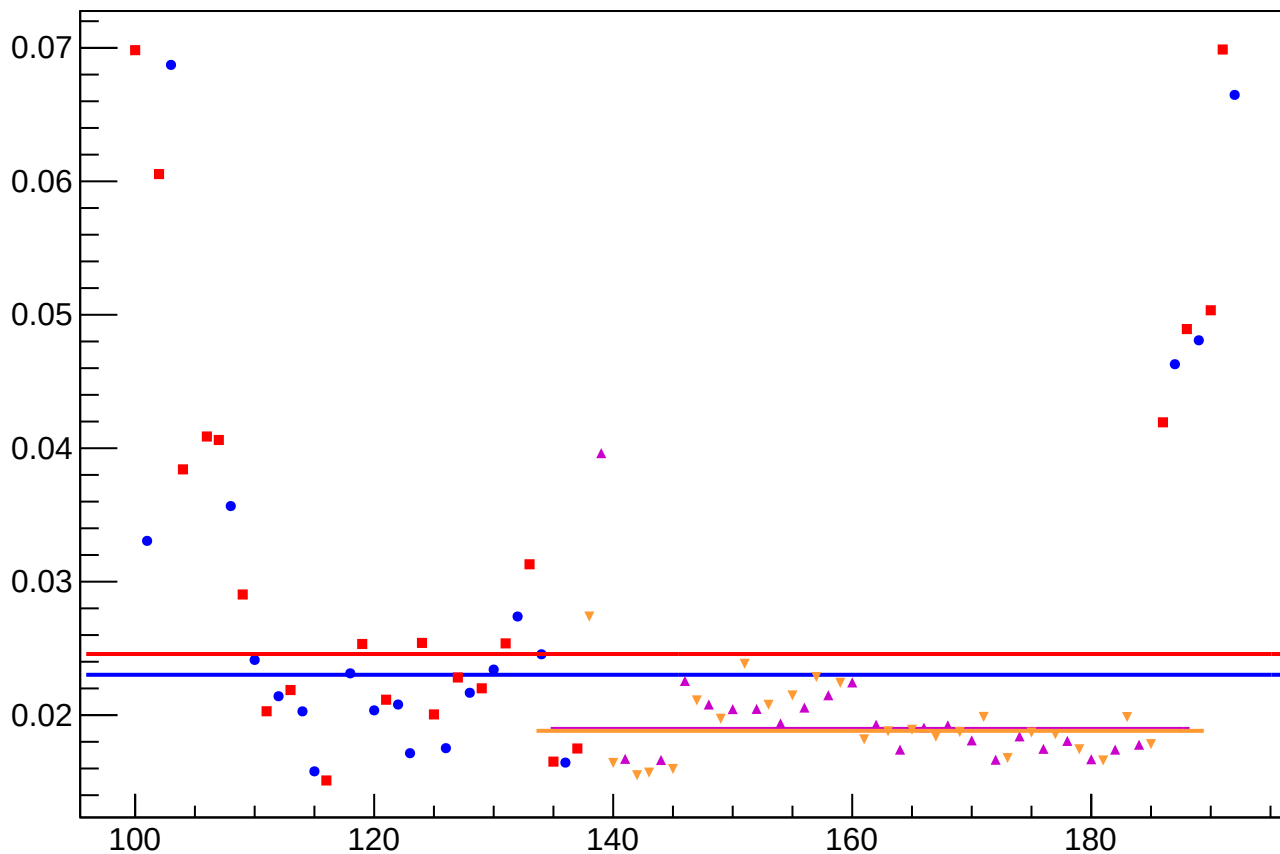
Right: -1.018 ± 0.000 χ^2/NDF : 942238802.7/42

In: -0.884 ± 0.000 χ^2/NDF : 863849910.1/42

Out: -0.889 ± 0.000 χ^2/NDF : 1011871489.6/47

All: -0.887 ± 0.000 χ^2/NDF : 1876314075.5/9

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2113527.2/19

Left Out: 0.019+/-0.000 χ^2/NDF :490509.4/24

Right Out: 0.025+/-0.000 χ^2/NDF : 2132671.6/22

Left In: 0.019+/-0.000 χ^2/NDF :615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

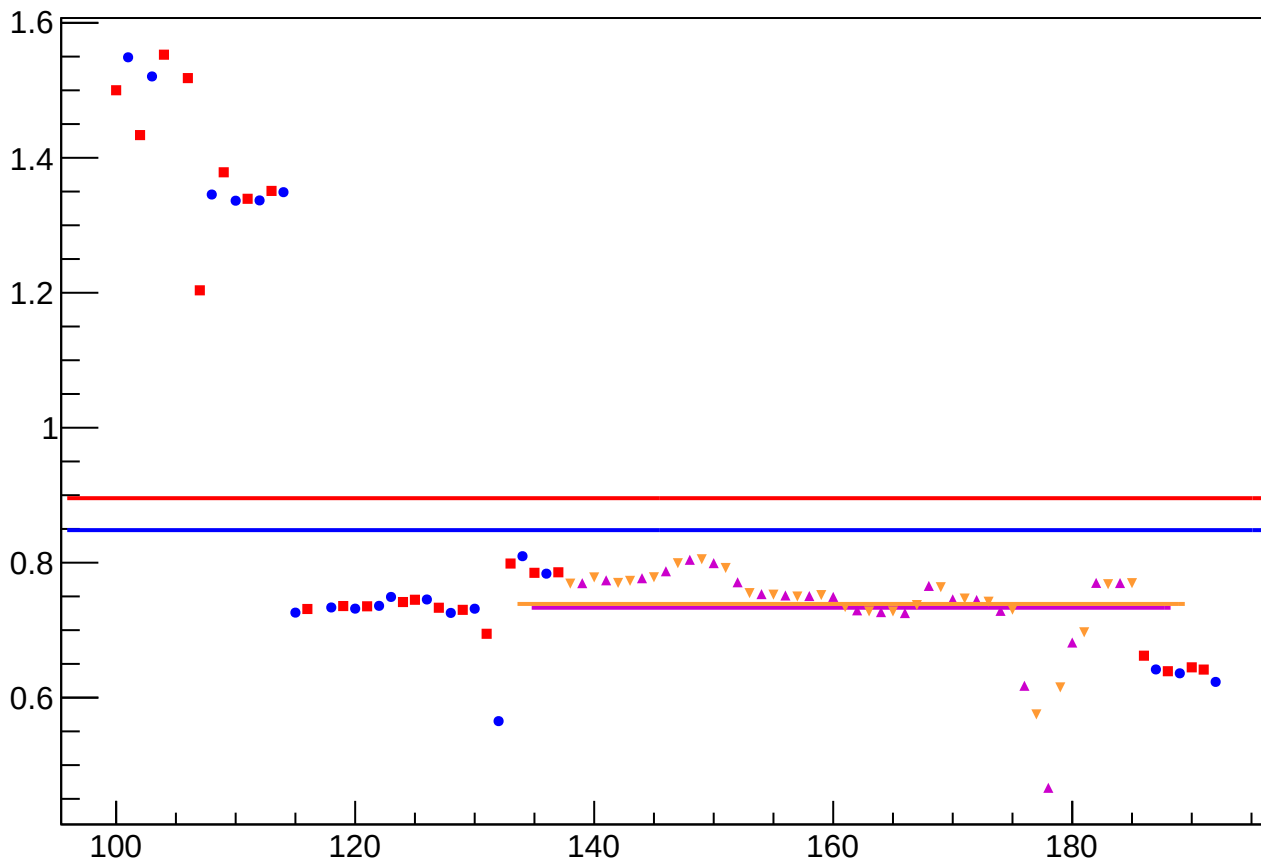
Right: 0.024+/-0.000 χ^2/NDF : 4273140.8/42

In: 0.020+/-0.000 χ^2/NDF :3017633.6/42

Out: 0.020+/-0.000 χ^2/NDF :3196705.7/47

All: 0.020+/-0.000 χ^2/NDF : 6215187.1/90

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.848 $\pm$ 0.000 χ^2 /NDF: 2740889334.7/19

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF: 333013236.5/24

Right Out: 0.896 $\pm$ 0.000 χ^2 /NDF: 2688803000.1/22

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

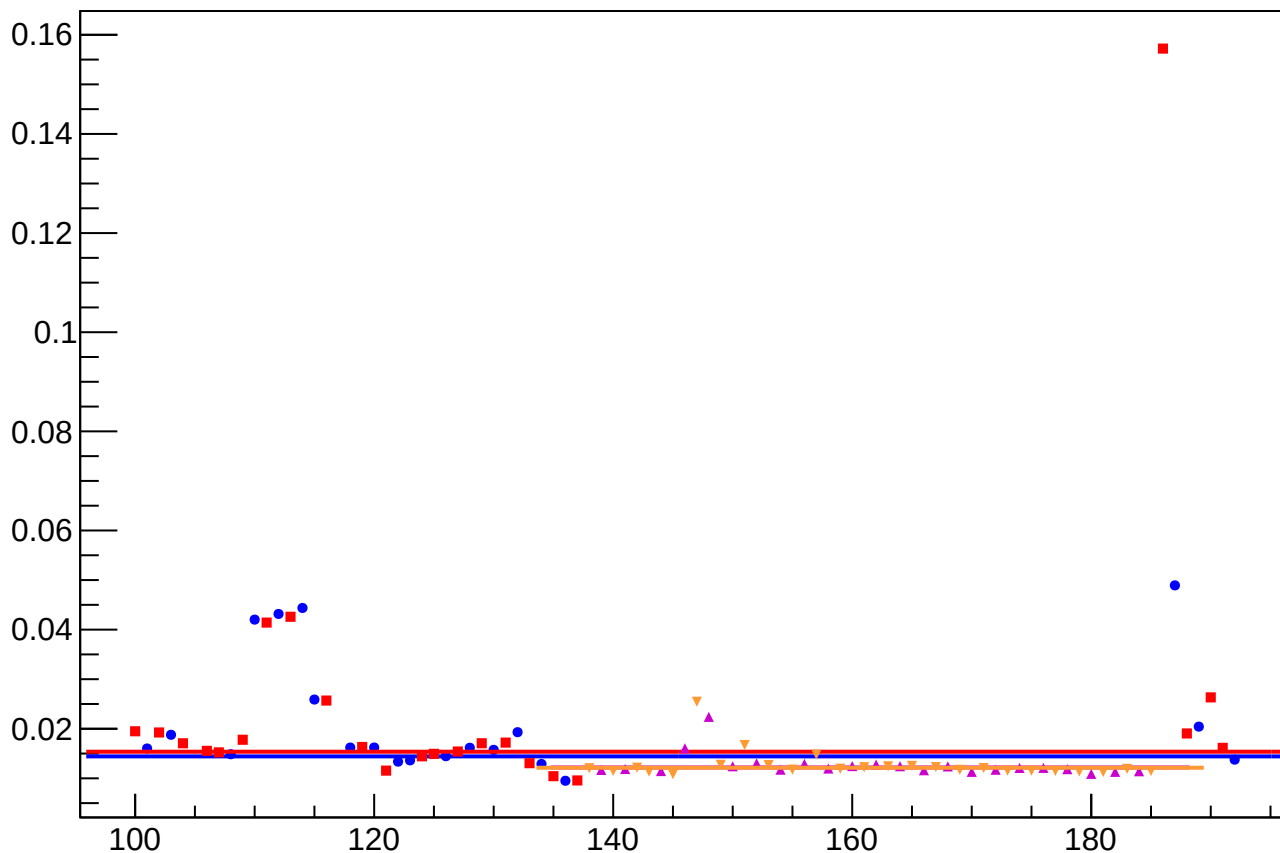
Right: 0.871 $\pm$ 0.000 χ^2 /NDF: 5465668973.5/42

In: 0.760 $\pm$ 0.000 χ^2 /NDF: 3651215333.8/42

Out: 0.771 $\pm$ 0.000 χ^2 /NDF: 3624686043.9/47

All: 0.765 $\pm$ 0.000 χ^2 /NDF: 7285581791.7/90

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1627393.6/19

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2034387.6/22

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

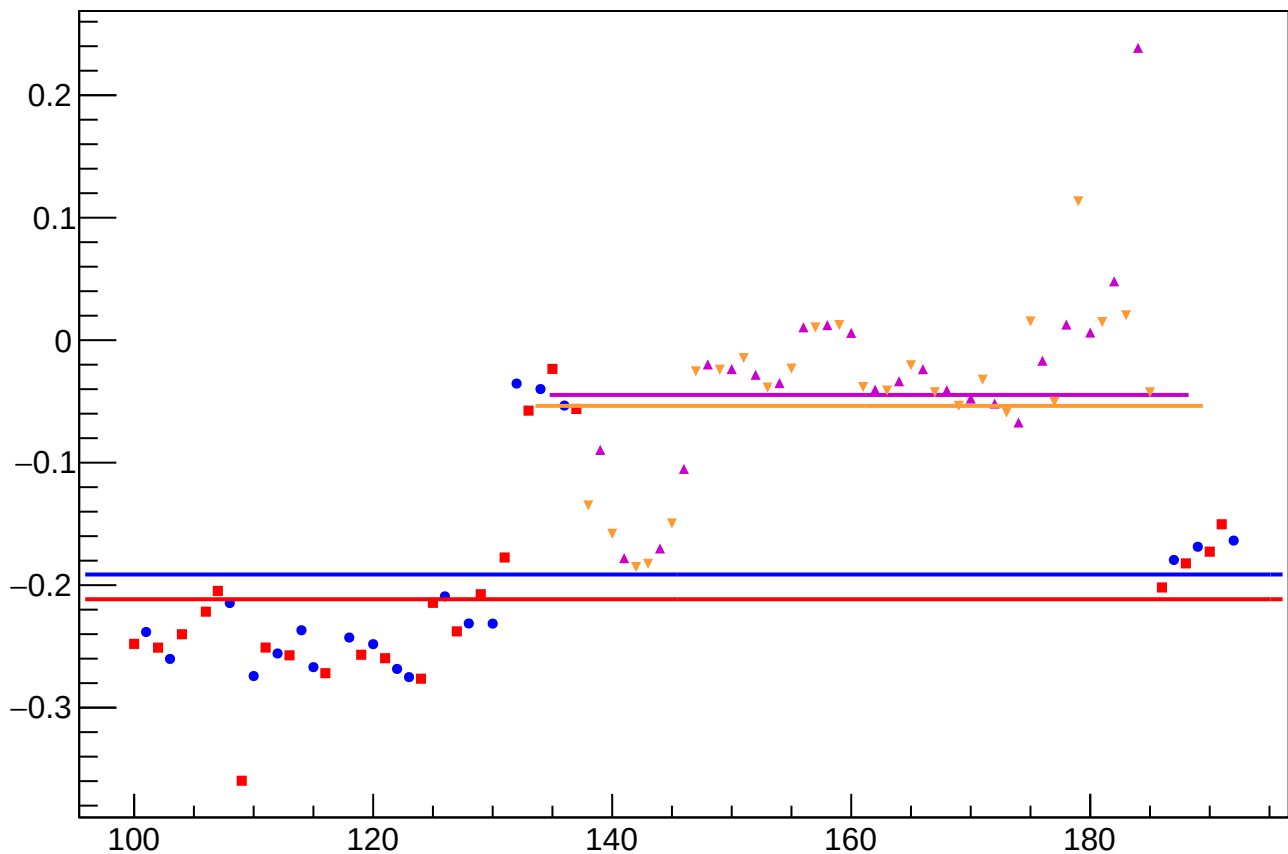
Right: 0.015+/-0.000 χ^2/NDF : 3690413.3/42

In: 0.013+/-0.000 χ^2/NDF : 2366586.0/42

Out: 0.013+/-0.000 χ^2/NDF : 3184888.7/47

All: 0.013+/-0.000 χ^2/NDF : 5552935.1/90

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191+/-0.000 χ^2/NDF : 106448170.8/19

Left Out: -0.054+/-0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.211+/-0.000 χ^2/NDF : 111139501.0/22

Left In: -0.045+/-0.000 χ^2/NDF : 127192425.2/22

Left: -0.049+/-0.000 χ^2/NDF : 296566503.6/47

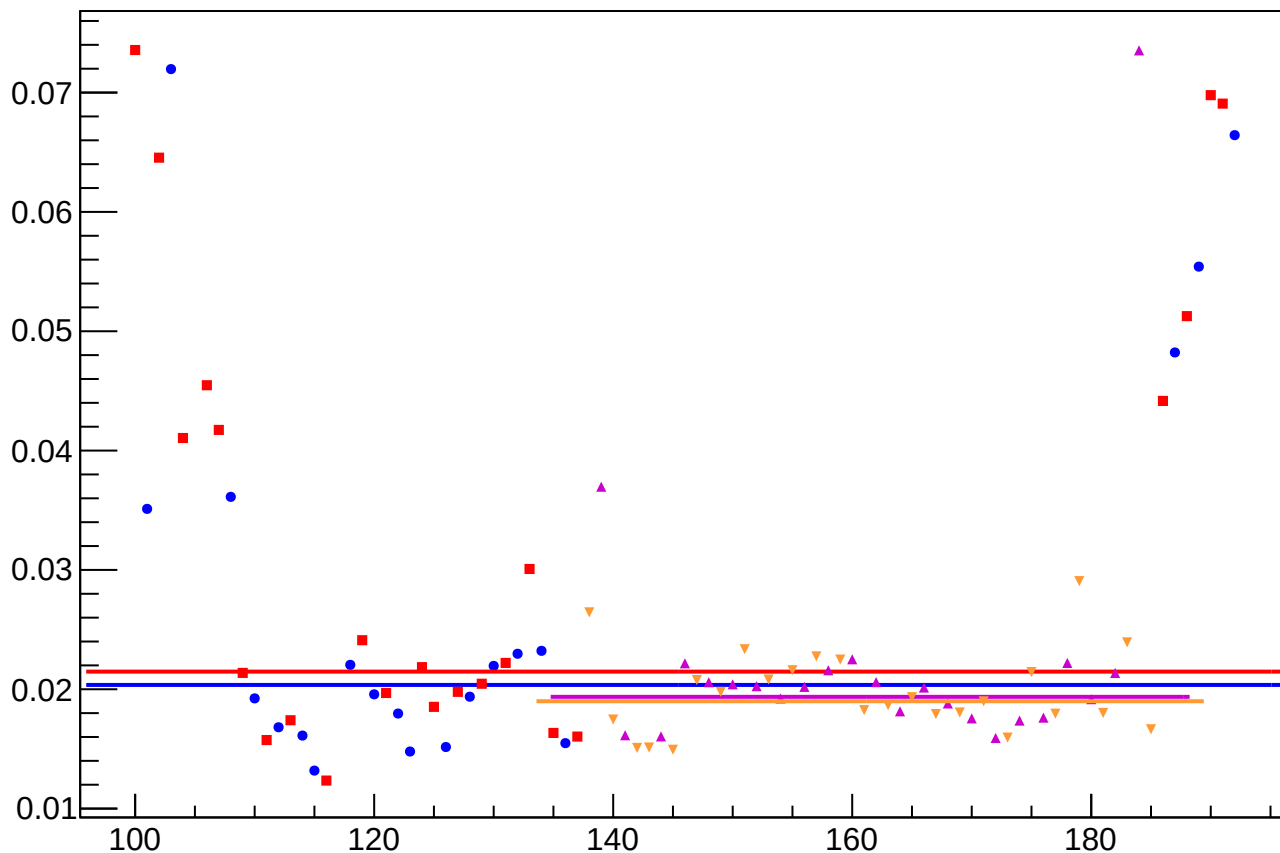
Right: -0.201+/-0.000 χ^2/NDF : 220405327.5/42

In: -0.085+/-0.000 χ^2/NDF : 452213463.3/42

Out: -0.093+/-0.000 χ^2/NDF : 532581685.5/47

All: -0.089+/-0.000 χ^2/NDF : 986582949.4/90

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.020 $\pm$ 0.000 χ^2 /NDF: 2545014.7/19

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 700229.7/24

Right Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 2827953.2/22

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 858216.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1563699.1/47

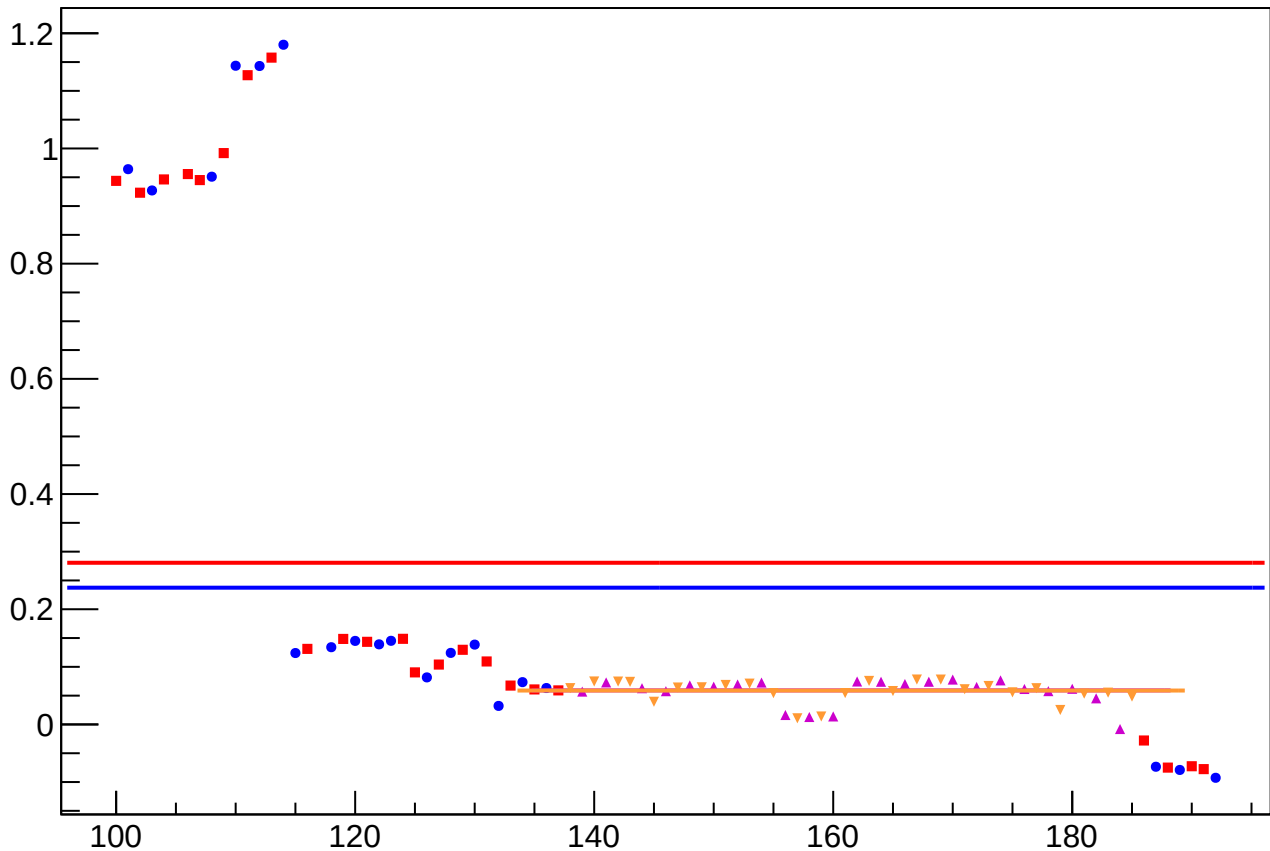
Right: 0.021 $\pm$ 0.000 χ^2 /NDF: 5390162.4/42

In: 0.020 $\pm$ 0.000 χ^2 /NDF: 3423468.1/42

Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 3653559.6/47

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 7077047.3/90

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.000 χ^2 /NDF: 6104295143.1/19

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.281 $\pm$ 0.000 χ^2 /NDF: 6382792545.8/22

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105343775.2/47

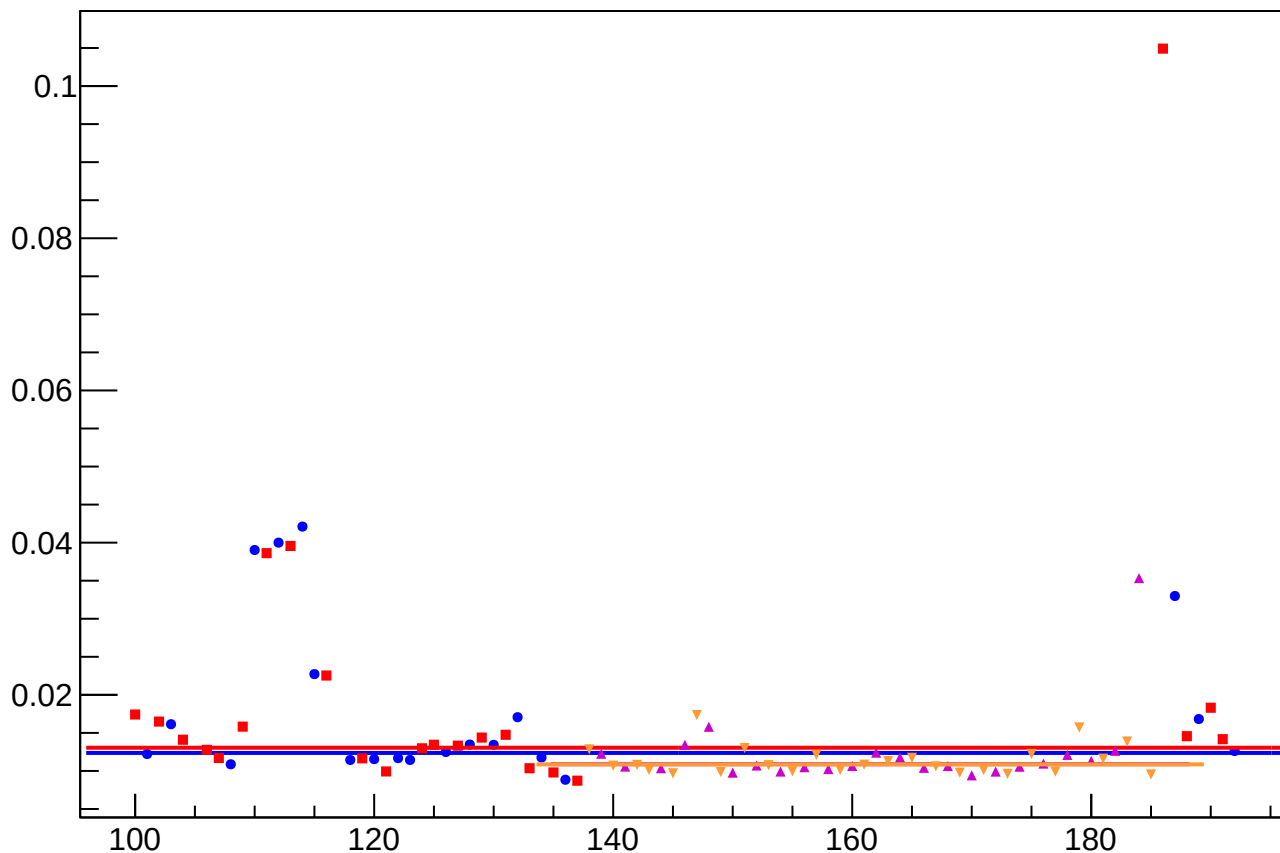
Right: 0.258 $\pm$ 0.000 χ^2 /NDF: 12528692042.4/42

In: 0.104 $\pm$ 0.000 χ^2 /NDF: 7256818130.5/42

Out: 0.110 $\pm$ 0.000 χ^2 /NDF: 8058626275.9/47

All: 0.107 $\pm$ 0.000 χ^2 /NDF: 15318369234.1/9

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1458189.5/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1871029.3/22

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

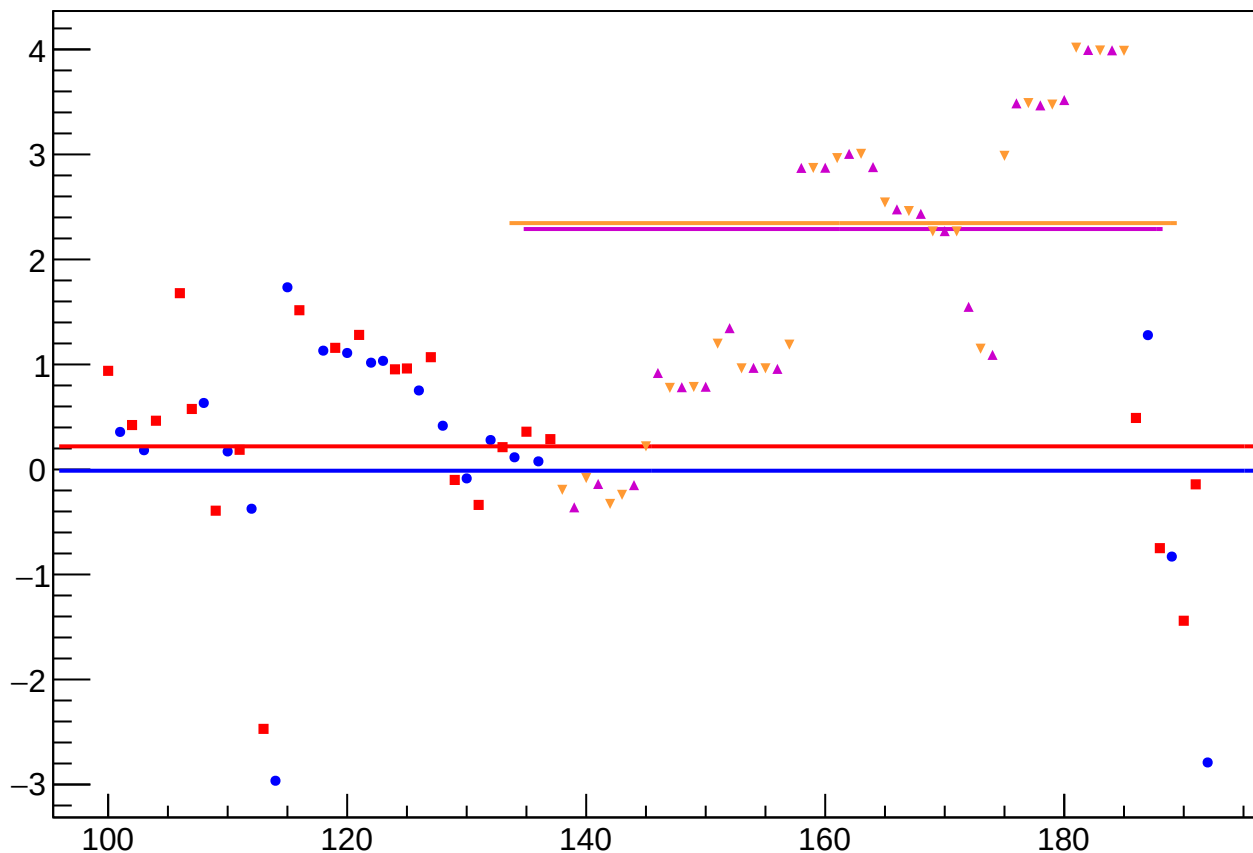
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3349939.3/42

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2138330.7/42

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2793346.0/47

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4933495.2/90

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.012 $\pm$ 0.000 χ^2 /NDF: 2539832668.4/19

Left Out: 2.346 $\pm$ 0.000 χ^2 /NDF: 63481331015.4/24

Right Out: 0.220 $\pm$ 0.000 χ^2 /NDF: 1650347238.6/22

Left In: 2.290 $\pm$ 0.000 χ^2 /NDF: 60875537647.3/22

Left: 2.318 $\pm$ 0.000 χ^2 /NDF: 124438674298.4/47

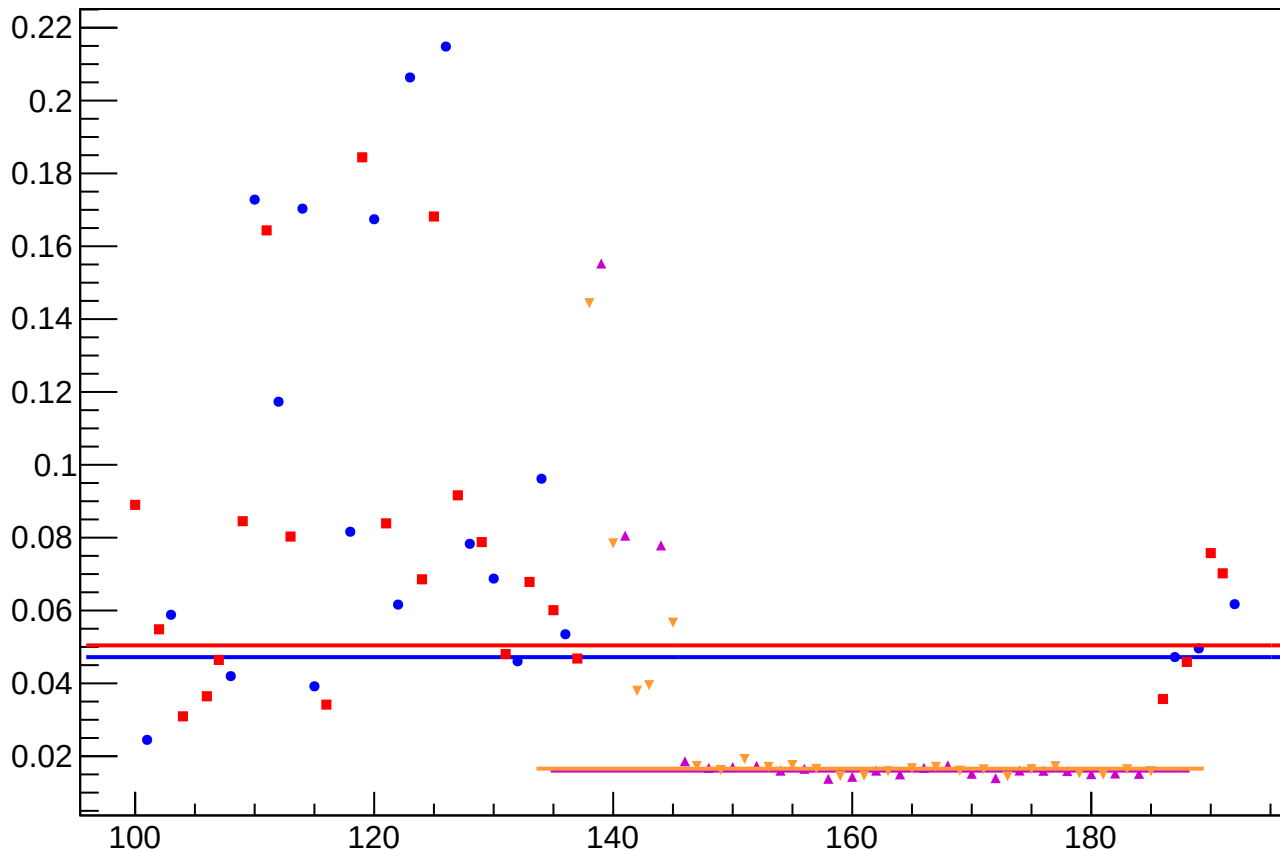
Right: 0.105 $\pm$ 0.000 χ^2 /NDF: 4250125478.2/42

In: 2.195 $\pm$ 0.000 χ^2 /NDF: 74645457190.8/42

Out: 2.256 $\pm$ 0.000 χ^2 /NDF: 74836660496.4/47

All: 2.226 $\pm$ 0.000 χ^2 /NDF: 149581683385.6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.047+/-0.000 χ^2/NDF : 2947330.3/19

Left Out: 0.017+/-0.000 χ^2/NDF : 2621162.1/24

Right Out: 0.050+/-0.000 χ^2/NDF : 2430203.1/22

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

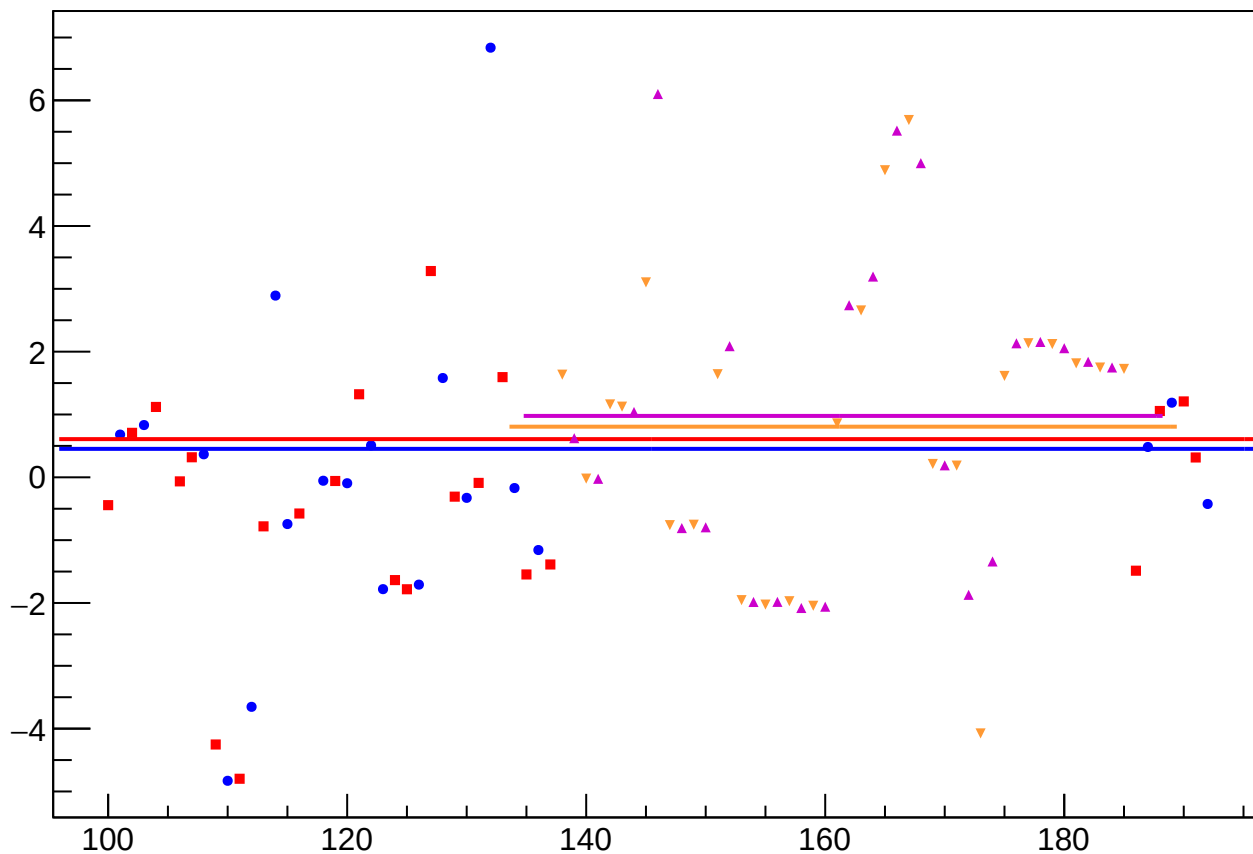
Right: 0.049+/-0.000 χ^2/NDF : 5400642.9/42

In: 0.017+/-0.000 χ^2/NDF : 9456869.2/42

Out: 0.018+/-0.000 χ^2/NDF : 9968479.1/47

All: 0.018+/-0.000 χ^2/NDF : 19450918.3/90

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.453+/-0.000

χ^2/NDF : 13751127068.2/19

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right Out: 0.608+/-0.000

χ^2/NDF : 5736271602.8/22

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Right: 0.522+/-0.000

χ^2/NDF : 19564262124.1/42

In: 0.937+/-0.000

χ^2/NDF : 583774529162.1/42

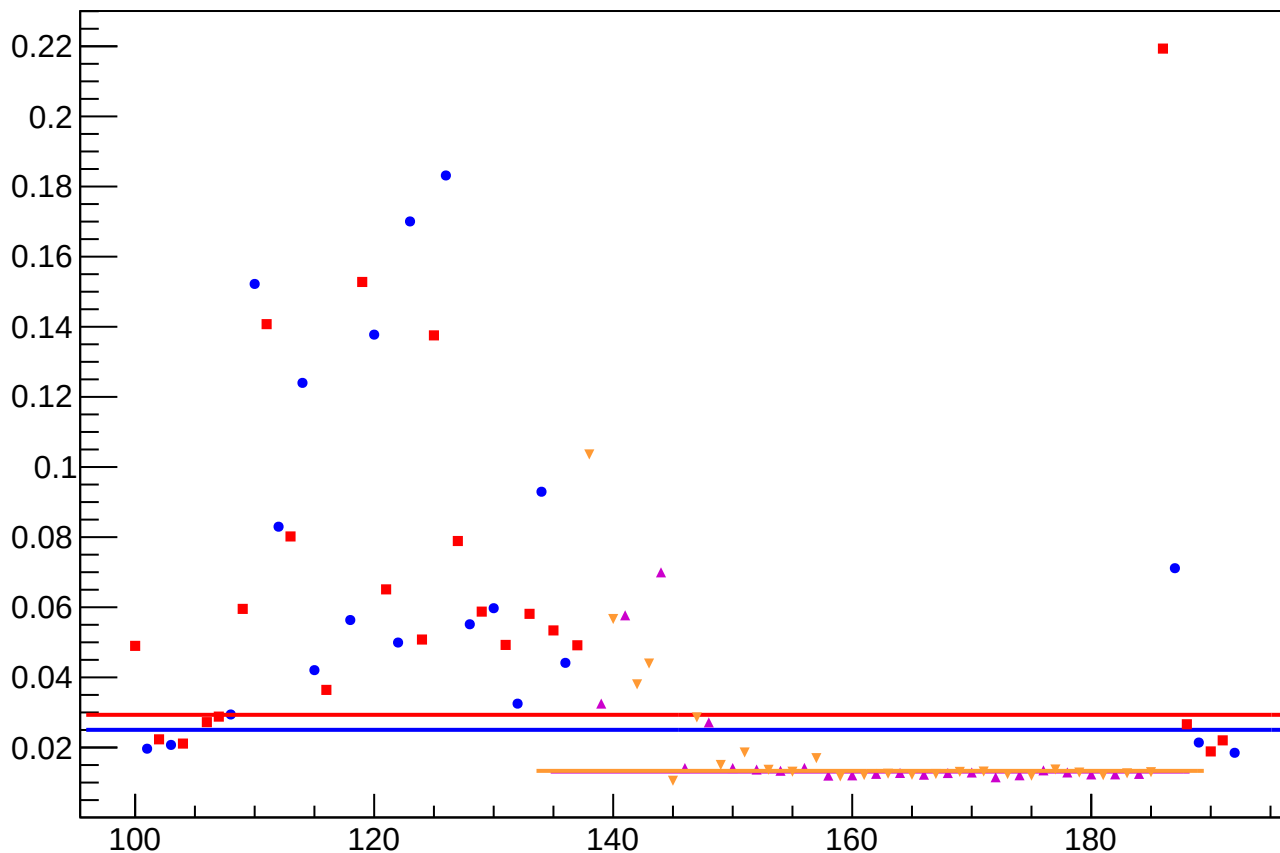
Out: 0.793+/-0.000

χ^2/NDF : 513527689640.0/47

All: 0.866+/-0.000

χ^2/NDF : 1098241971915.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 3525564.2/19

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.029+/-0.000 χ^2/NDF : 3948469.0/22

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

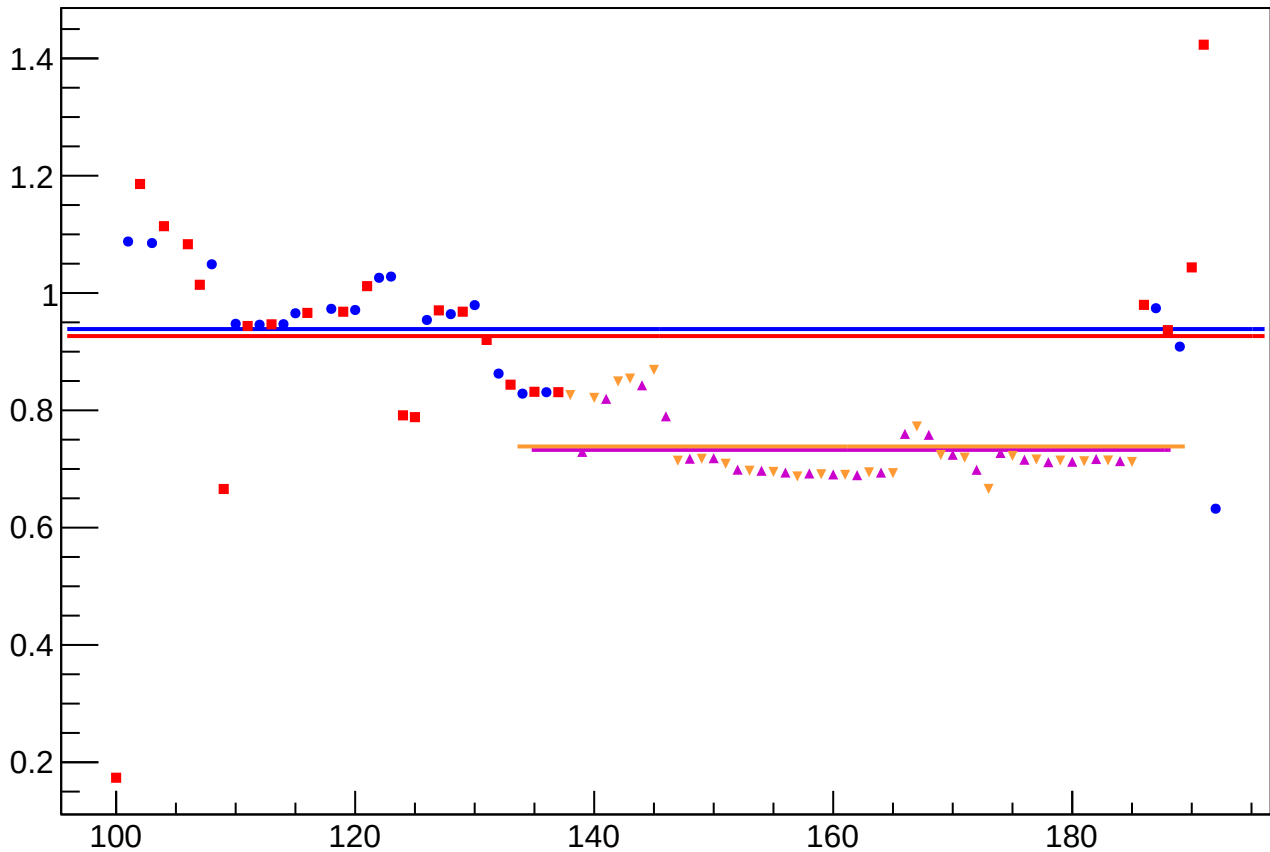
Right: 0.027+/-0.000 χ^2/NDF : 7591386.3/42

In: 0.014+/-0.000 χ^2/NDF : 7340610.4/42

Out: 0.014+/-0.000 χ^2/NDF : 9546822.8/47

All: 0.014+/-0.000 χ^2/NDF : 16895641.8/90

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.939+/-0.000 χ^2/NDF : 299116426.0/19

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.927+/-0.000 χ^2/NDF : 454553544.3/22

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

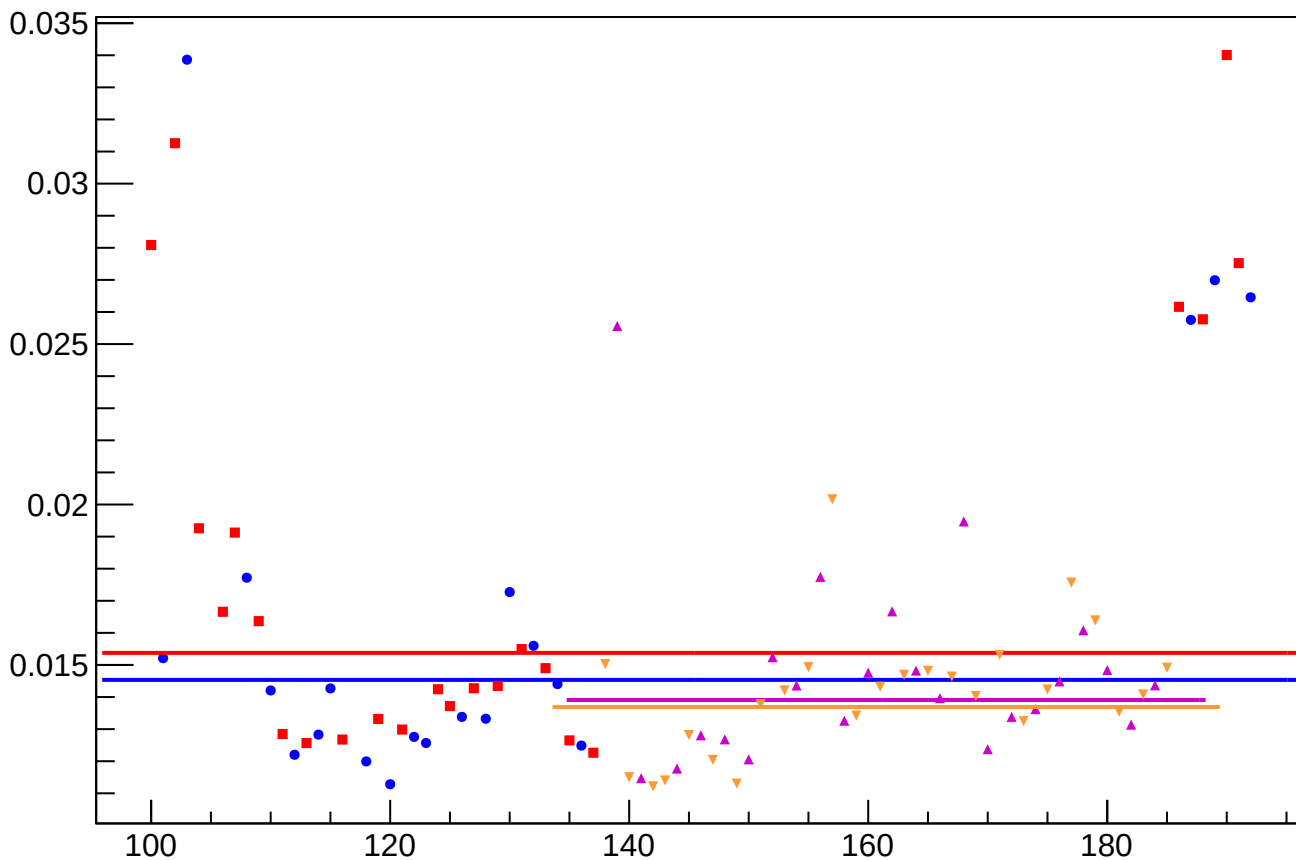
Right: 0.933+/-0.000 χ^2/NDF : 755975396.6/42

In: 0.793+/-0.000 χ^2/NDF : 1458662310.1/42

Out: 0.789+/-0.000 χ^2/NDF : 1585395786.0/47

All: 0.791+/-0.000 χ^2/NDF : 3044895776.6/90

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1196865.0/19

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1252529.1/22

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

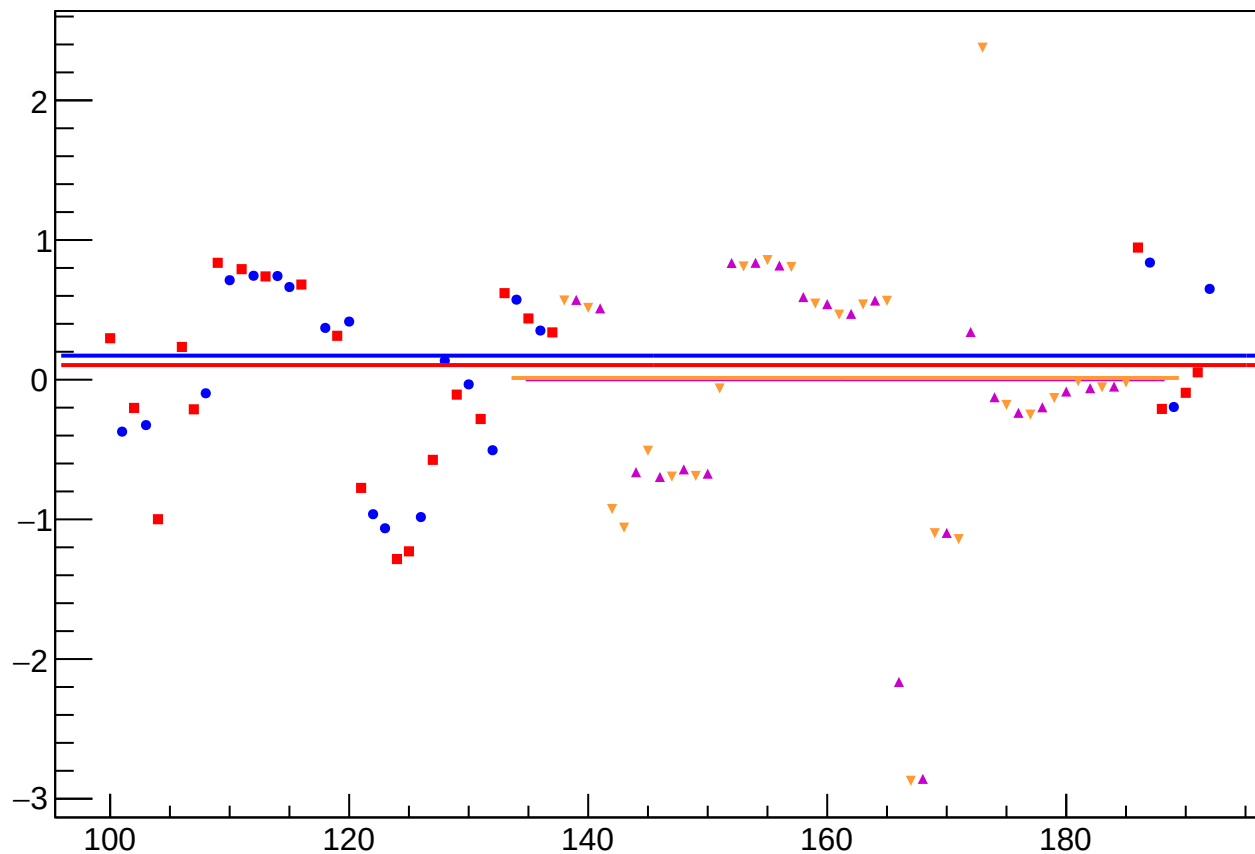
Right: 0.015+/-0.000 χ^2/NDF : 2472233.3/42

In: 0.014+/-0.000 χ^2/NDF : 1983406.5/42

Out: 0.014+/-0.000 χ^2/NDF : 1912711.8/47

All: 0.014+/-0.000 χ^2/NDF : 3896430.2/90

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.000 χ^2 /NDF: 9250542995.4/19

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 96383858927.1/24

Right Out: 0.105 $\pm$ 0.000 χ^2 /NDF: 13155019638.2/22

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 78826489573.0/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 175214894006.3/47

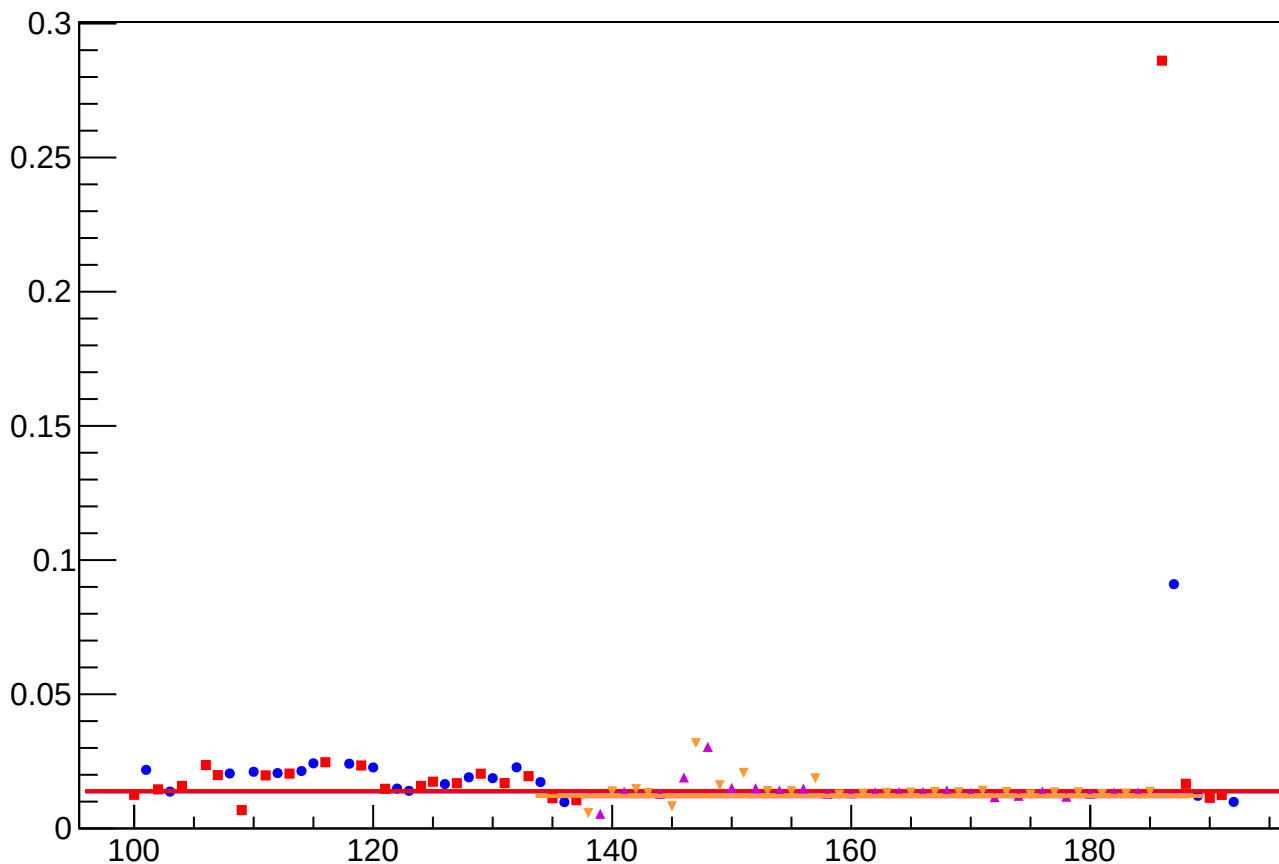
Right: 0.139 $\pm$ 0.000 χ^2 /NDF: 22485594643.8/42

In: 0.046 $\pm$ 0.000 χ^2 /NDF: 88831518830.2/42

Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 109763408563.6/47

All: 0.040 $\pm$ 0.000 χ^2 /NDF: 198603768396.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1778830.9/19

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2262163.4/22

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

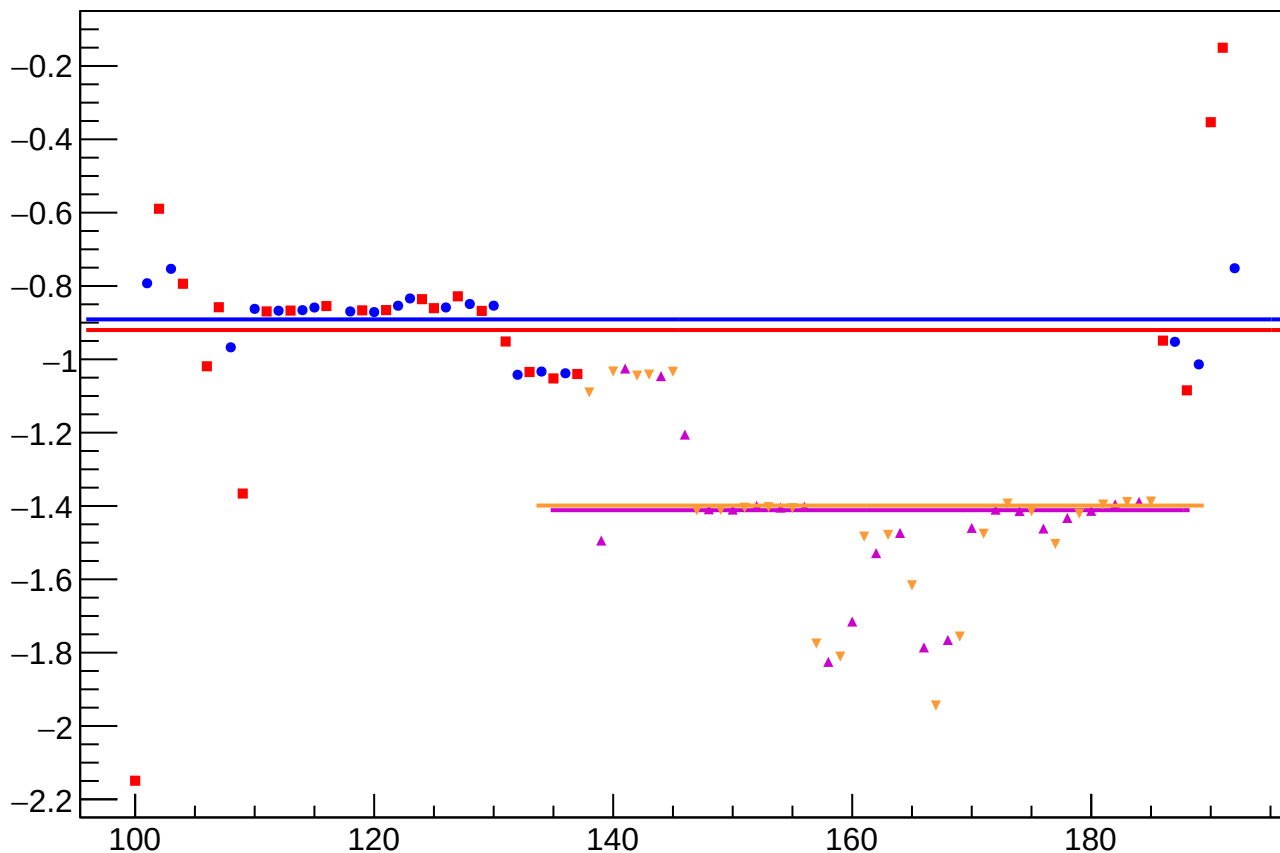
Right: 0.014+/-0.000 χ^2/NDF : 4041344.5/42

In: 0.012+/-0.000 χ^2/NDF :4956176.3/42

Out: 0.013+/-0.000 χ^2/NDF :5539407.6/47

All: 0.013+/-0.000 χ^2/NDF : 10496662.2/90

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 45177284.3/19

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.920+/-0.000 χ^2/NDF : 185183822.6/22

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.405+/-0.000 χ^2/NDF : 1251791467.1/47

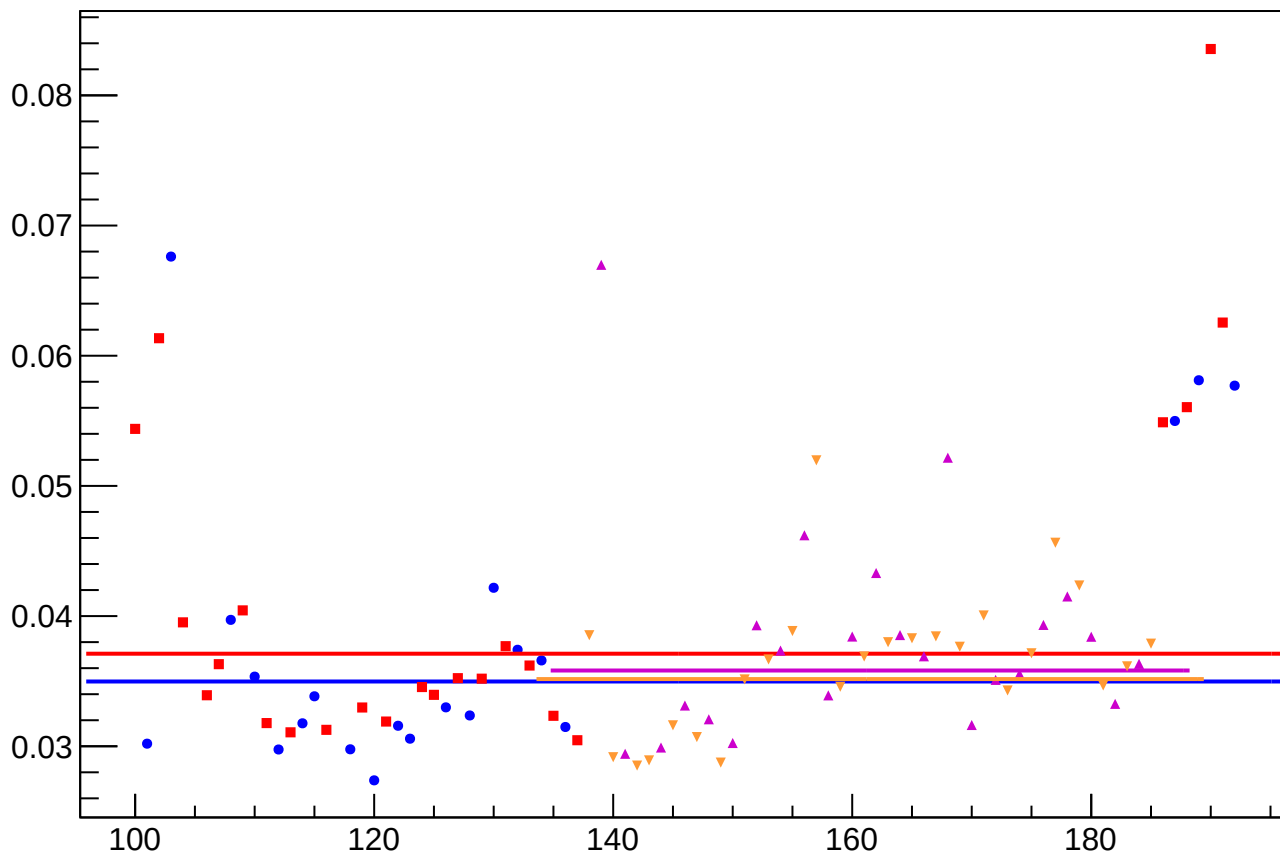
Right: -0.905+/-0.000 χ^2/NDF : 232748789.5/42

In: -1.241+/-0.000 χ^2/NDF : 1612792865.5/42

Out: -1.256+/-0.000 χ^2/NDF : 1812145517.5/47

All: -1.249+/-0.000 χ^2/NDF : 3426837162.2/9

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.035+/-0.000 χ^2/NDF : 903225.0/19

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.037+/-0.000 χ^2/NDF : 878426.2/22

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

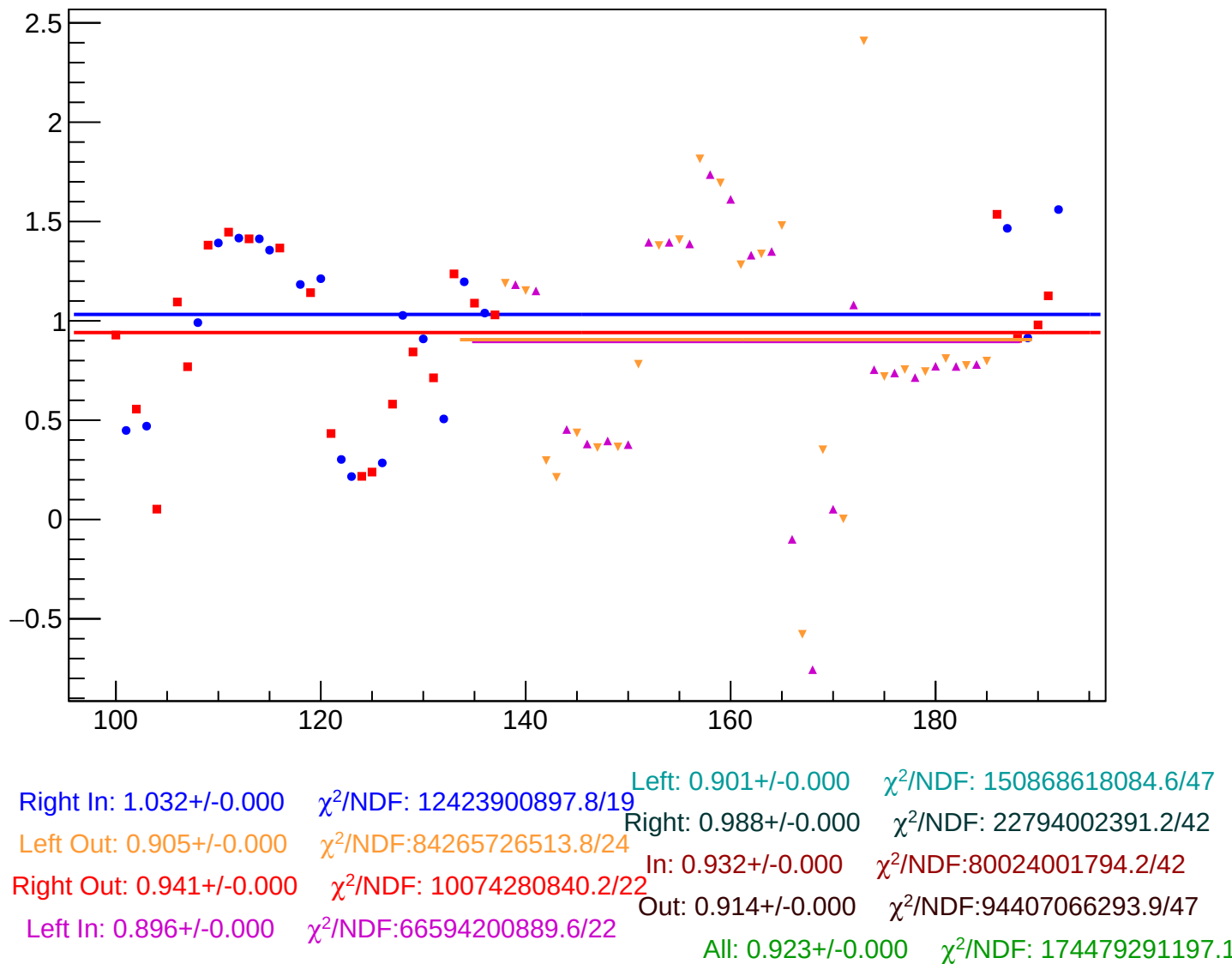
Right: 0.036+/-0.000 χ^2/NDF : 1807441.1/42

In: 0.036+/-0.000 χ^2/NDF : 1772928.0/42

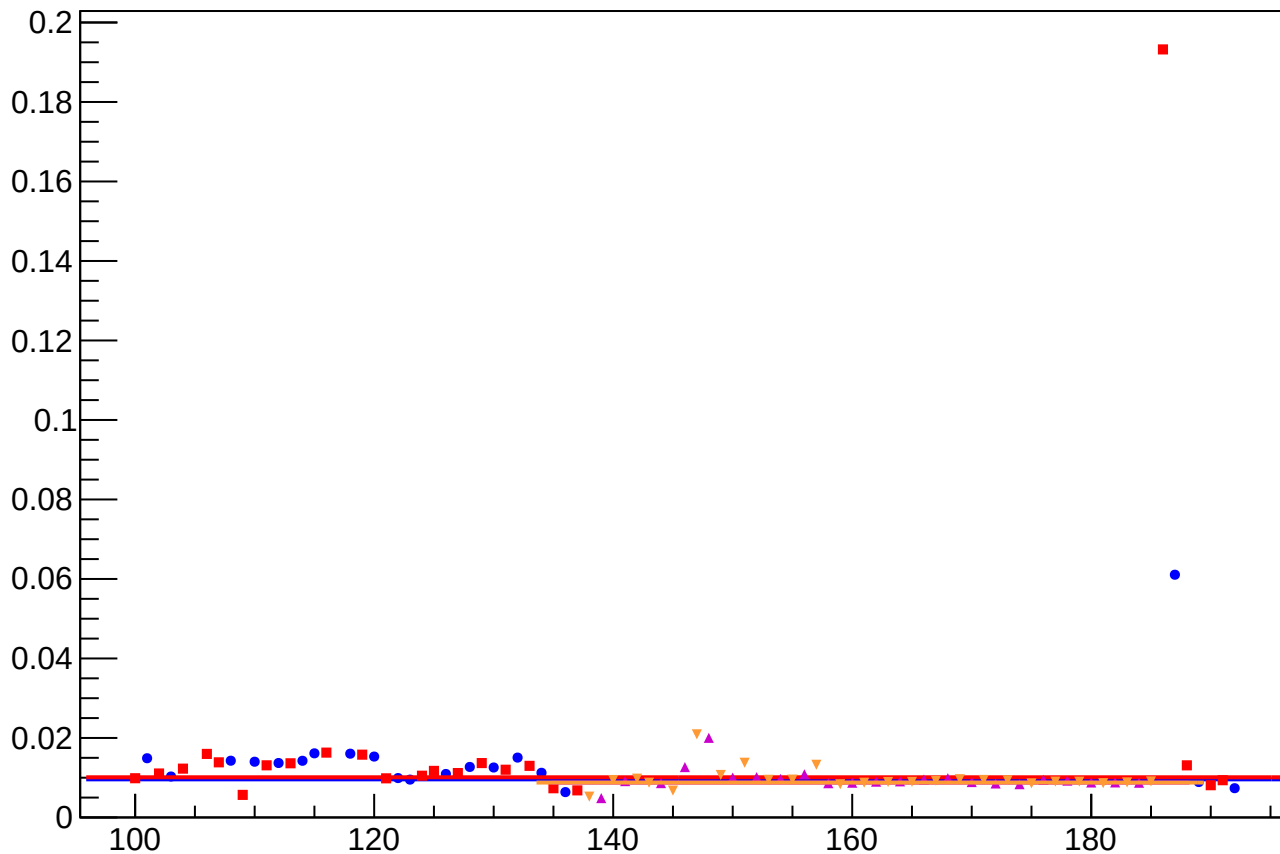
Out: 0.036+/-0.000 χ^2/NDF : 1503106.6/47

All: 0.036+/-0.000 χ^2/NDF : 3276764.2/90

yield_bpm12Y_mean vs Slug, Sign Corrected



yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1651388.3/19

Left Out: 0.009+/-0.000 χ^2/NDF : 1697568.1/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1915241.2/22

Left In: 0.009+/-0.000 χ^2/NDF : 1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

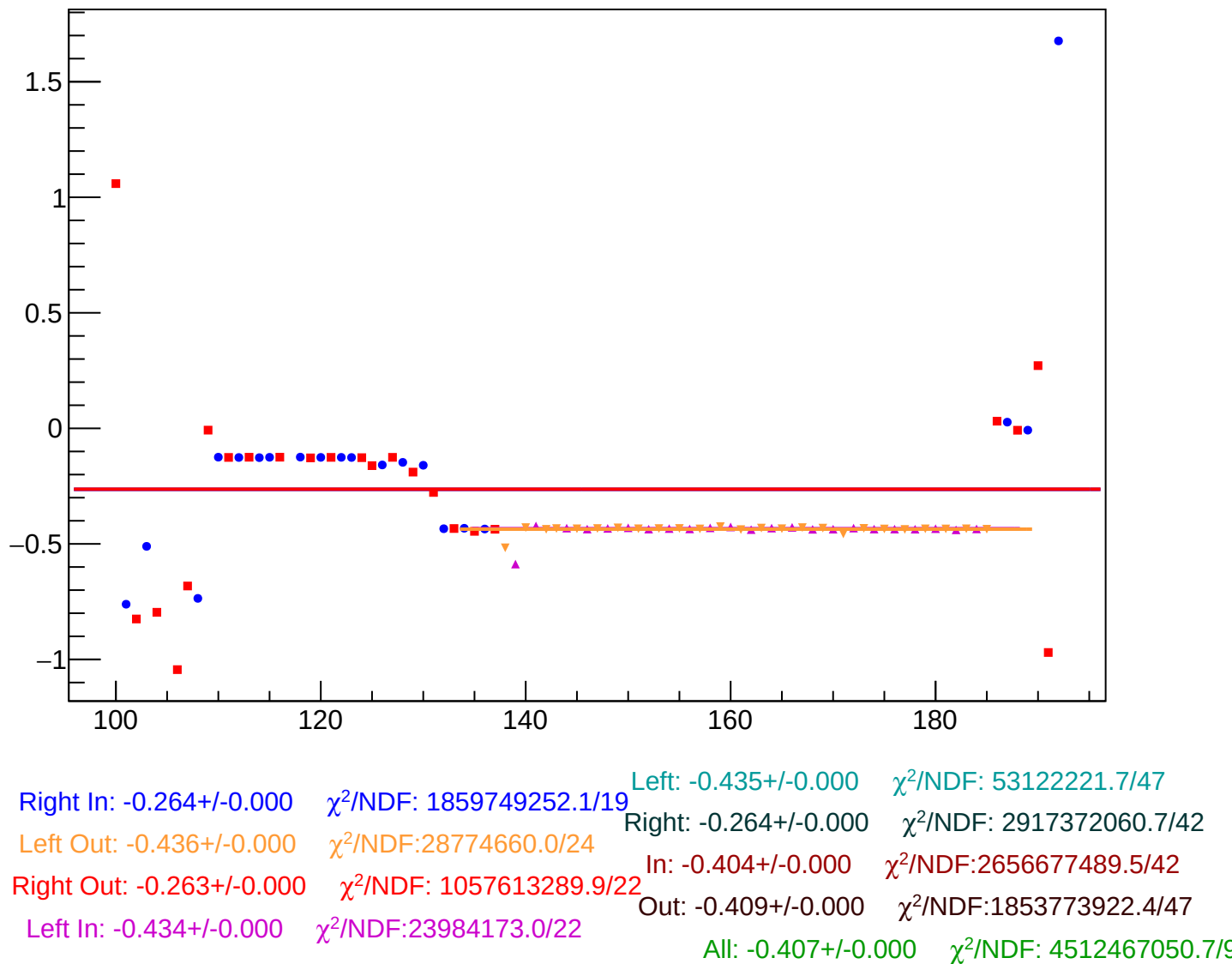
Right: 0.010+/-0.000 χ^2/NDF : 3585655.8/42

In: 0.009+/-0.000 χ^2/NDF : 3331415.2/42

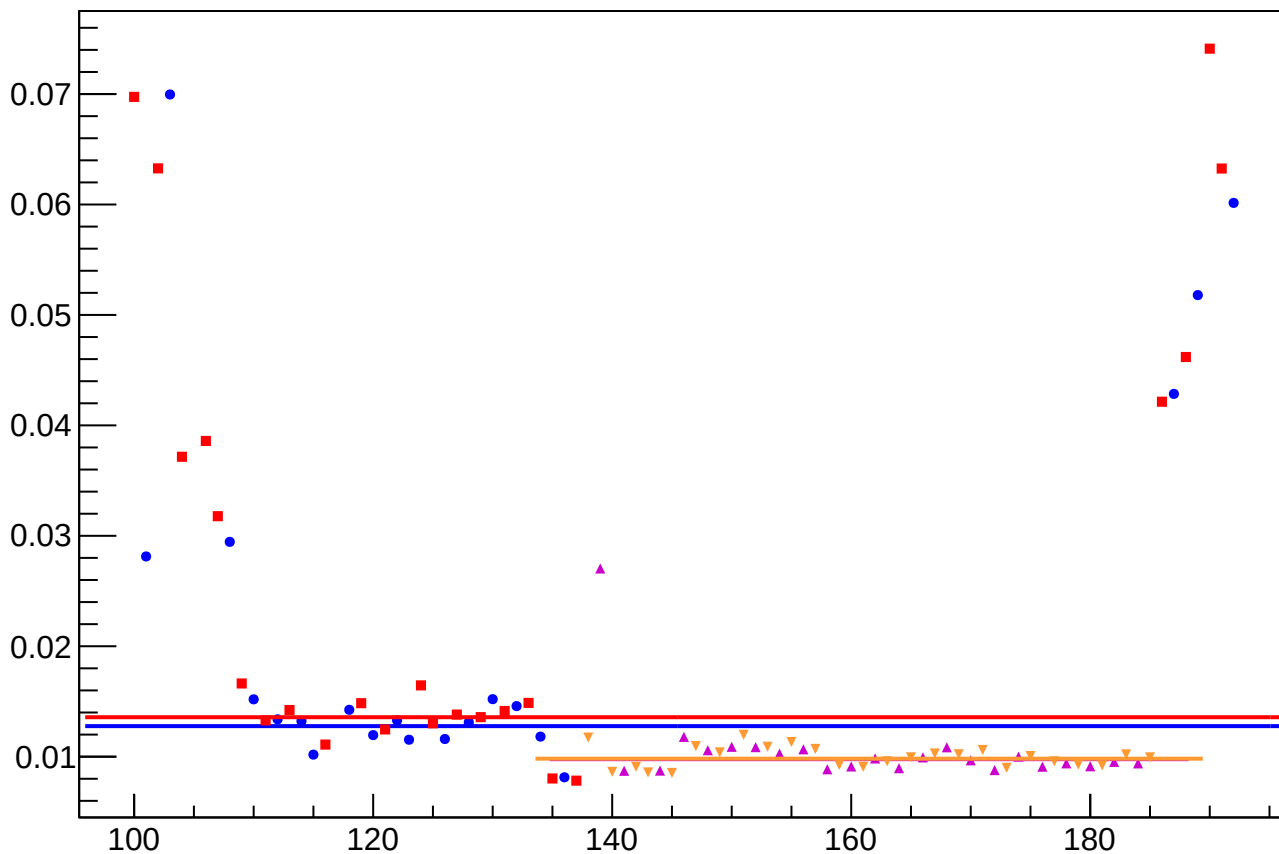
Out: 0.009+/-0.000 χ^2/NDF : 3796459.2/47

All: 0.009+/-0.000 χ^2/NDF : 7131066.4/90

yield_bpm16X_mean vs Slug, Sign Corrected



yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 3492676.1/19

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :269242.6/24

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 3911791.6/22

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

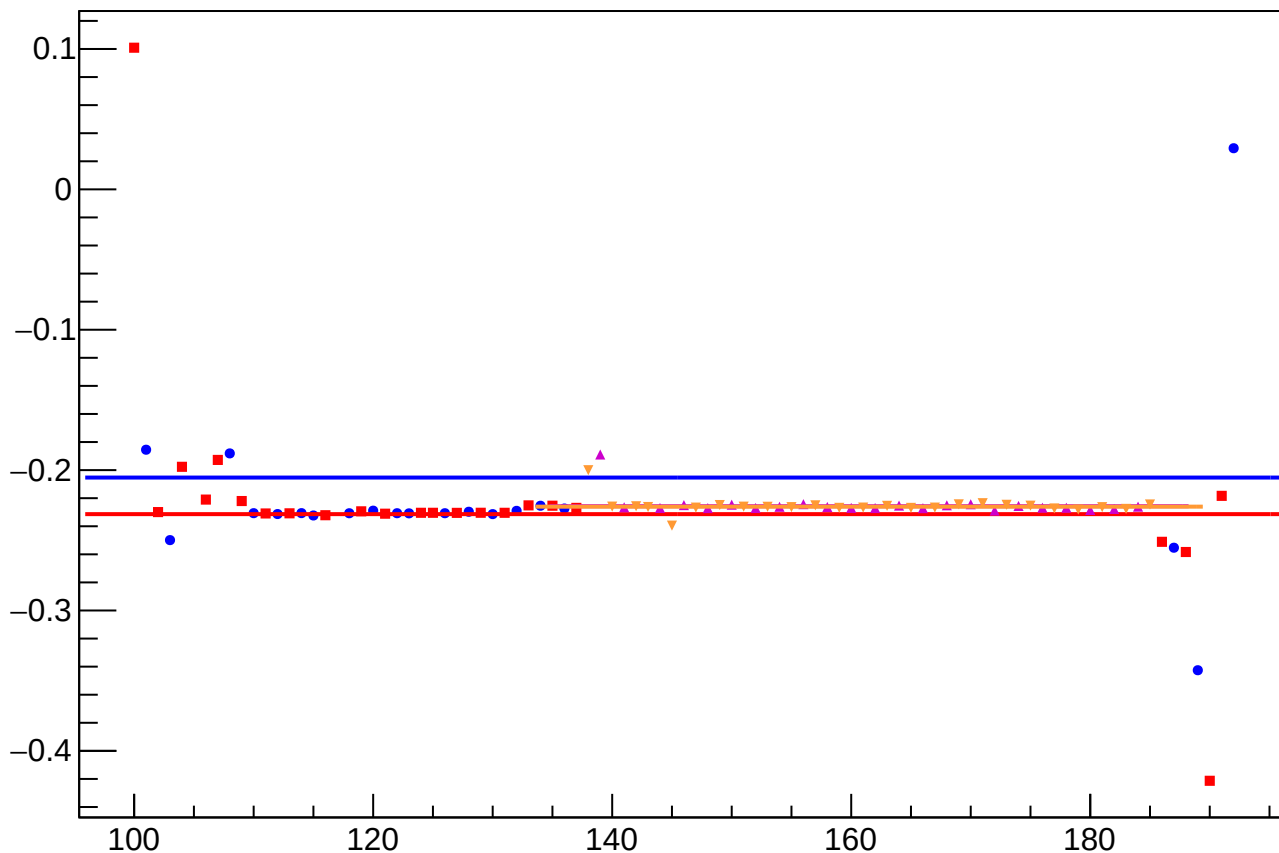
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 7424981.3/42

In: 0.010 $\pm$ 0.000 χ^2/NDF :4719237.6/42

Out: 0.010 $\pm$ 0.000 χ^2/NDF :4904595.9/47

All: 0.010 $\pm$ 0.000 χ^2/NDF : 9626304.2/90

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.205+/-0.000 χ^2/NDF : 1875660684.7/19

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.231+/-0.000 χ^2/NDF : 533506577.0/22

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

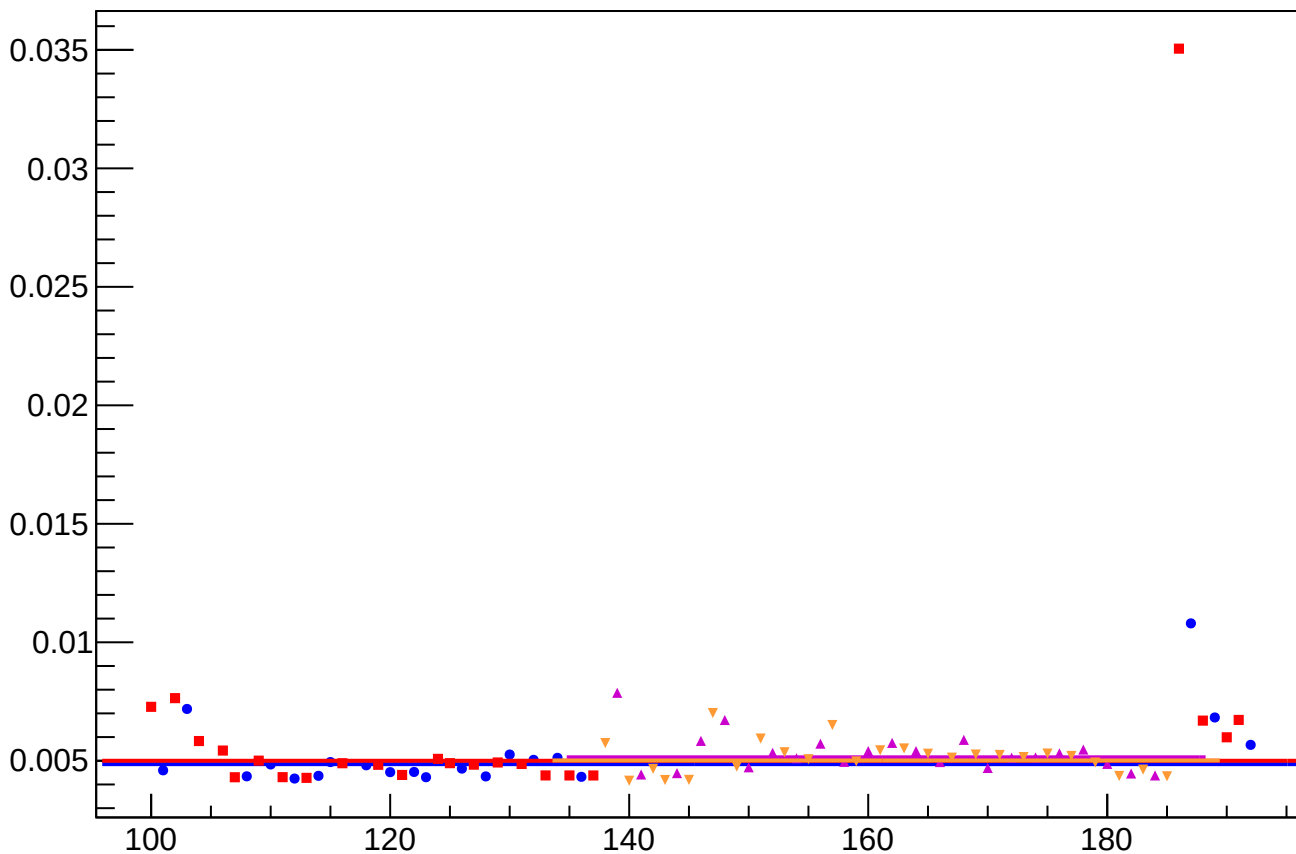
Right: -0.218+/-0.000 χ^2/NDF : 2515210866.9/42

In: -0.219+/-0.000 χ^2/NDF : 1977402955.9/42

Out: -0.228+/-0.000 χ^2/NDF : 560807006.5/47

All: -0.223+/-0.000 χ^2/NDF : 2575992237.4/9

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 394133.5/19

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 952097.7/22

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

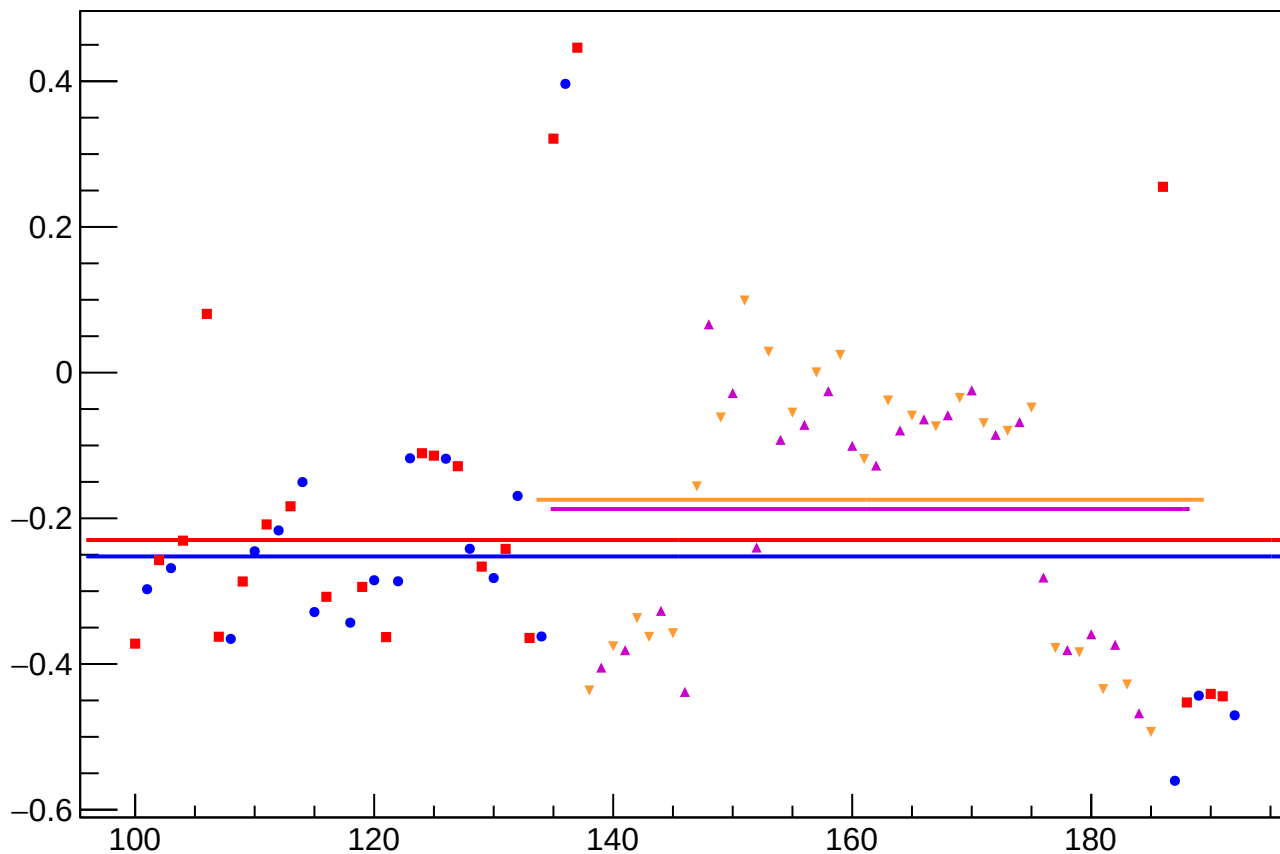
Right: 0.005+/-0.000 χ^2/NDF : 1352547.5/42

In: 0.005+/-0.000 χ^2/NDF : 921764.2/42

Out: 0.005+/-0.000 χ^2/NDF : 1482807.5/47

All: 0.005+/-0.000 χ^2/NDF : 2406074.3/90

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.252 ± 0.000 $\chi^2/\text{NDF}: 7956139675.2/19$

Left Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 18025533236.1/24$

Right Out: -0.230 ± 0.000 $\chi^2/\text{NDF}: 8493289421.6/22$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.181 ± 0.000 $\chi^2/\text{NDF}: 30888184231.6/47$

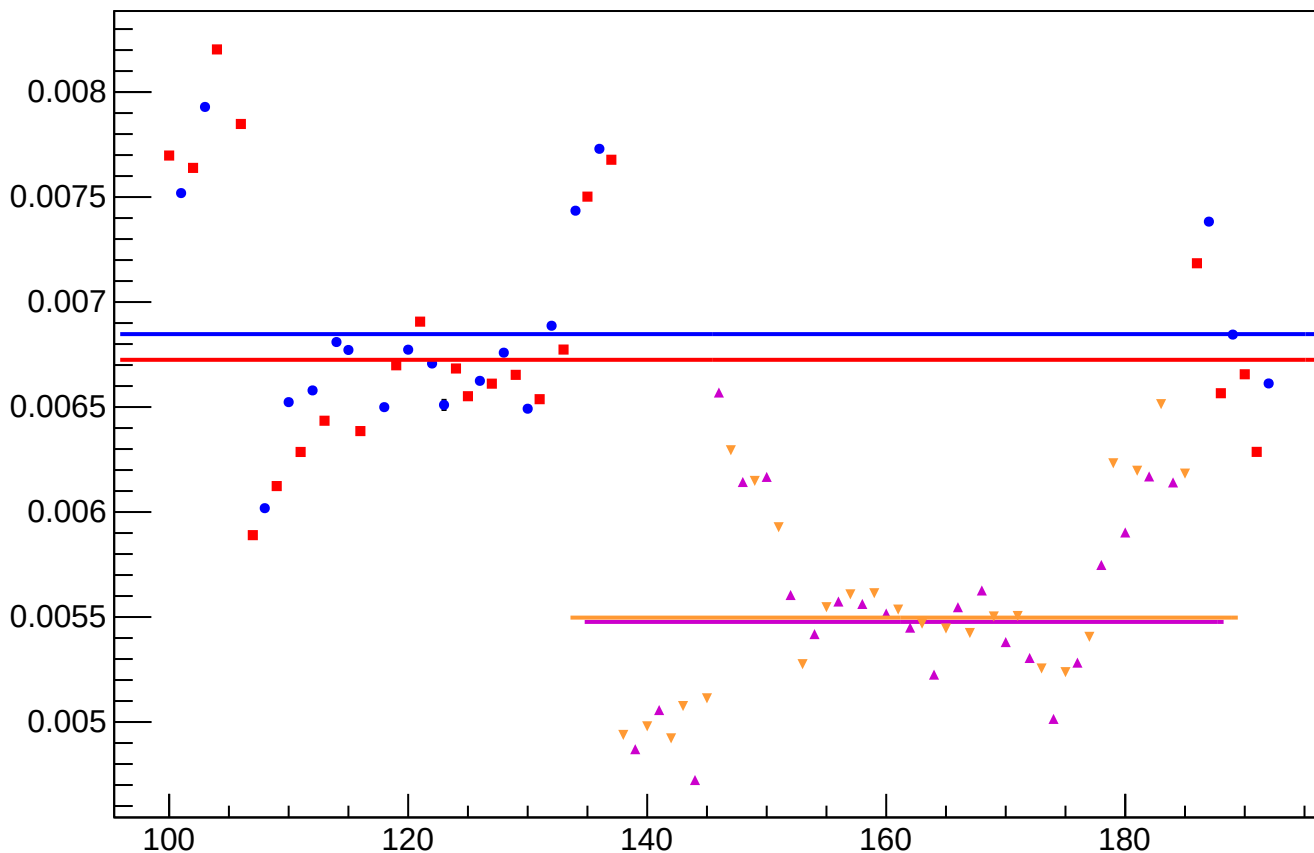
Right: -0.240 ± 0.000 $\chi^2/\text{NDF}: 16495583684.6/42$

In: -0.203 ± 0.000 $\chi^2/\text{NDF}: 21326390584.1/42$

Out: -0.188 ± 0.000 $\chi^2/\text{NDF}: 26960151785.7/47$

All: -0.195 ± 0.000 $\chi^2/\text{NDF}: 48365124068.8/100$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 82682.5/19

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 112237.5/22

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

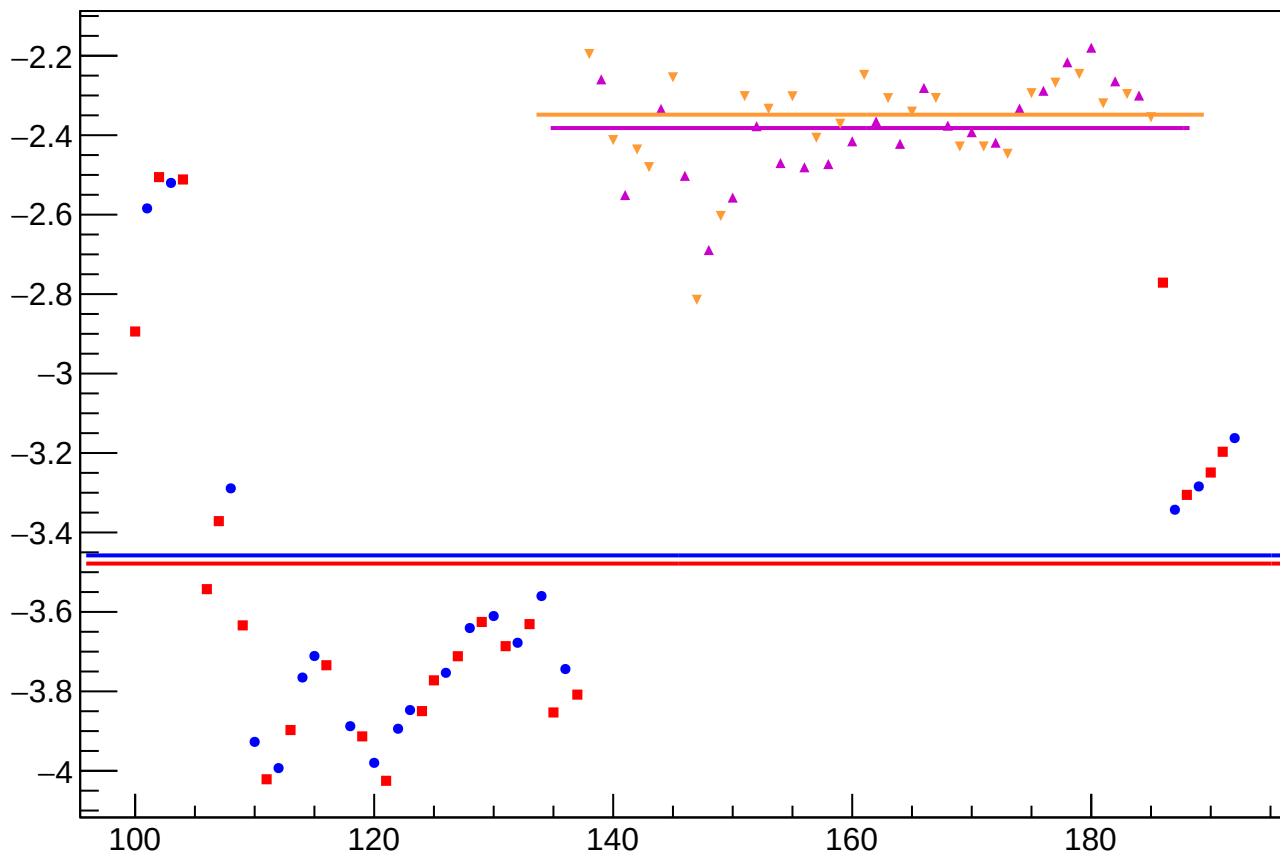
Right: 0.007+/-0.000 χ^2/NDF : 197640.5/42

In: 0.006+/-0.000 χ^2/NDF :776409.2/42

Out: 0.006+/-0.000 χ^2/NDF :746027.4/47

All: 0.006+/-0.000 χ^2/NDF : 1522436.8/90

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.458+/-0.000 χ^2/NDF : 27878373977.6/19

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.478+/-0.000 χ^2/NDF : 28525379876.7/22

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

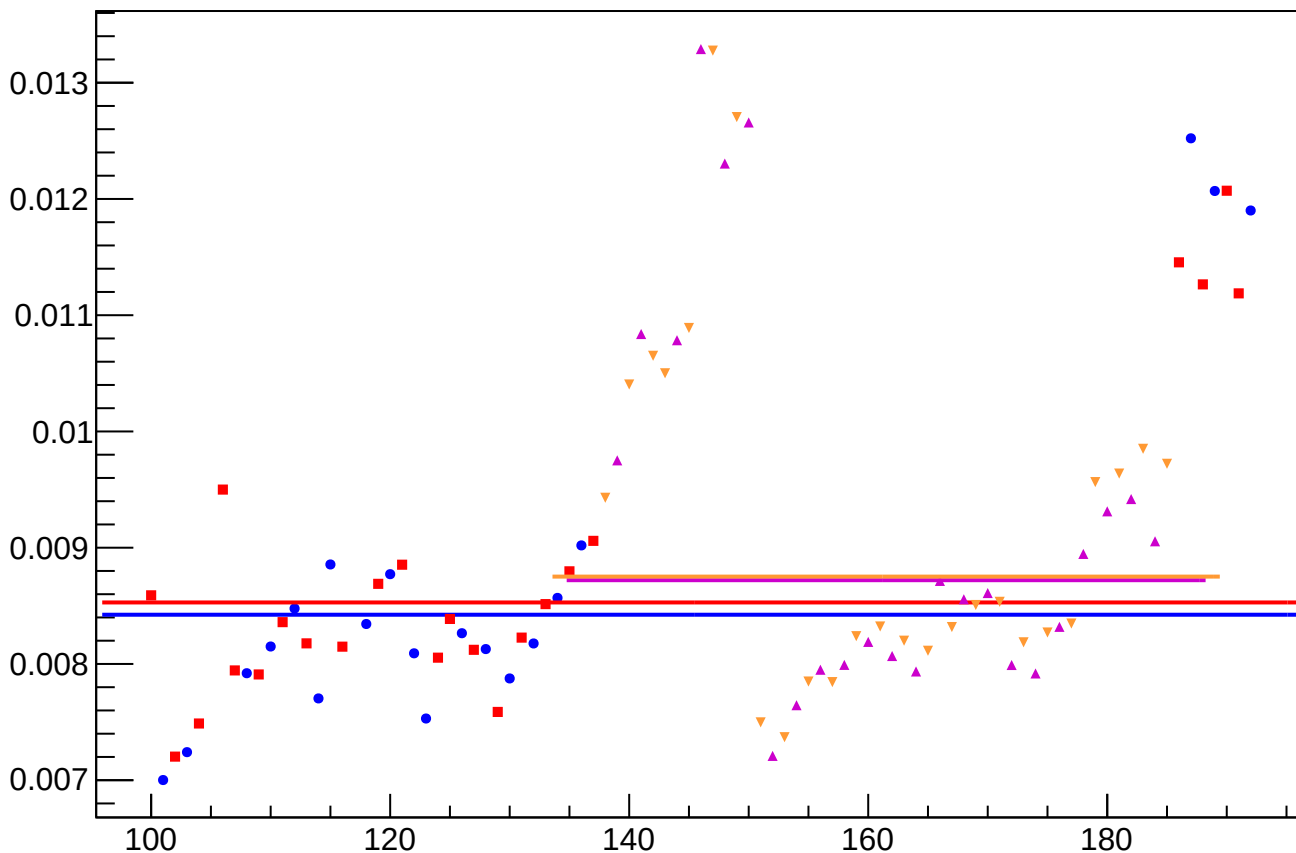
Right: -3.468+/-0.000 χ^2/NDF : 56427754961.6/42

In: -2.749+/-0.000 χ^2/NDF : 114464536809.0/42

Out: -2.733+/-0.000 χ^2/NDF : 128549106673.8/47

All: -2.741+/-0.000 χ^2/NDF : 243054477895.7

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 369928.1/19

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 329583.1/22

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

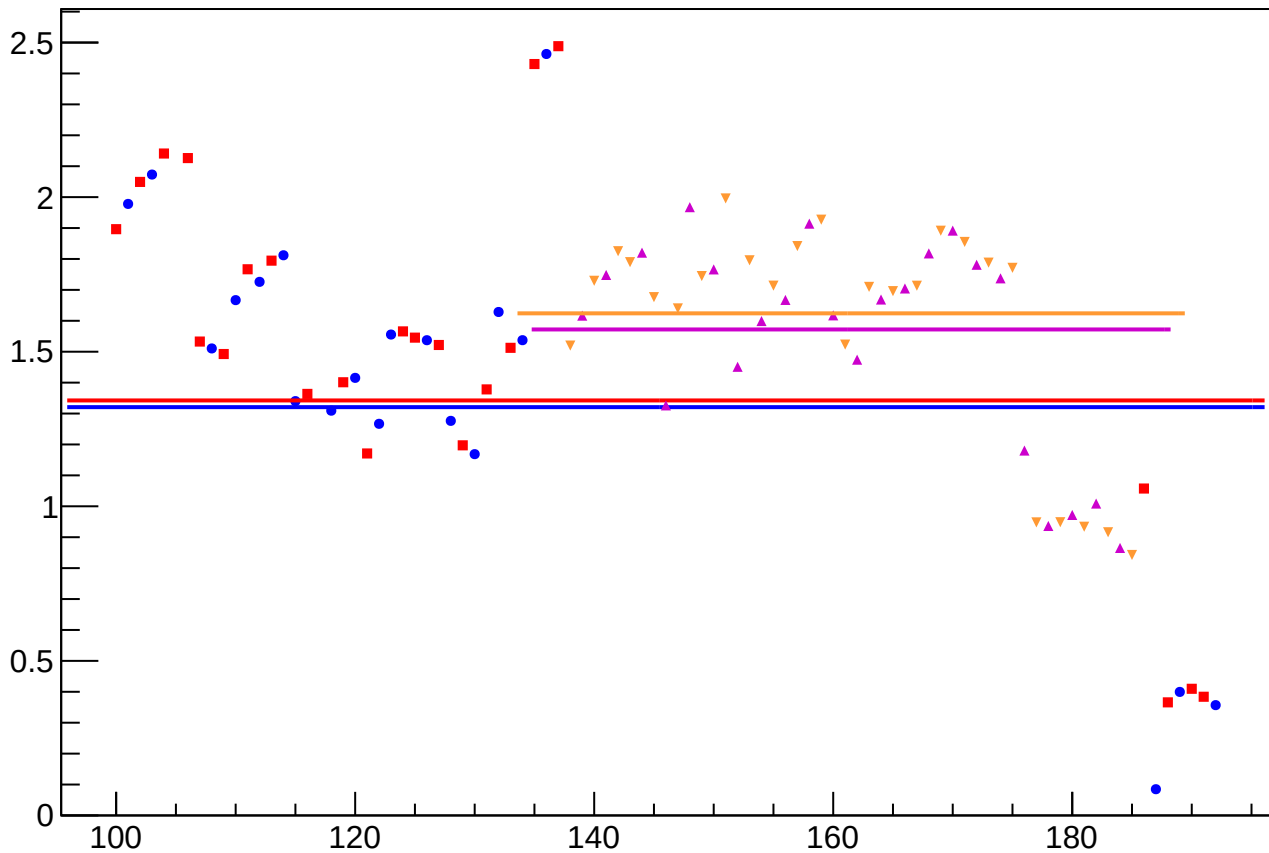
Right: 0.008+/-0.000 χ^2/NDF : 700775.3/42

In: 0.009+/-0.000 χ^2/NDF :1130648.1/42

Out: 0.009+/-0.000 χ^2/NDF :1000836.5/47

All: 0.009+/-0.000 χ^2/NDF : 2132546.0/90

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.321+/-0.000 χ^2/NDF : 24429412728.5/19

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.342+/-0.000 χ^2/NDF : 23803756427.7/22

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

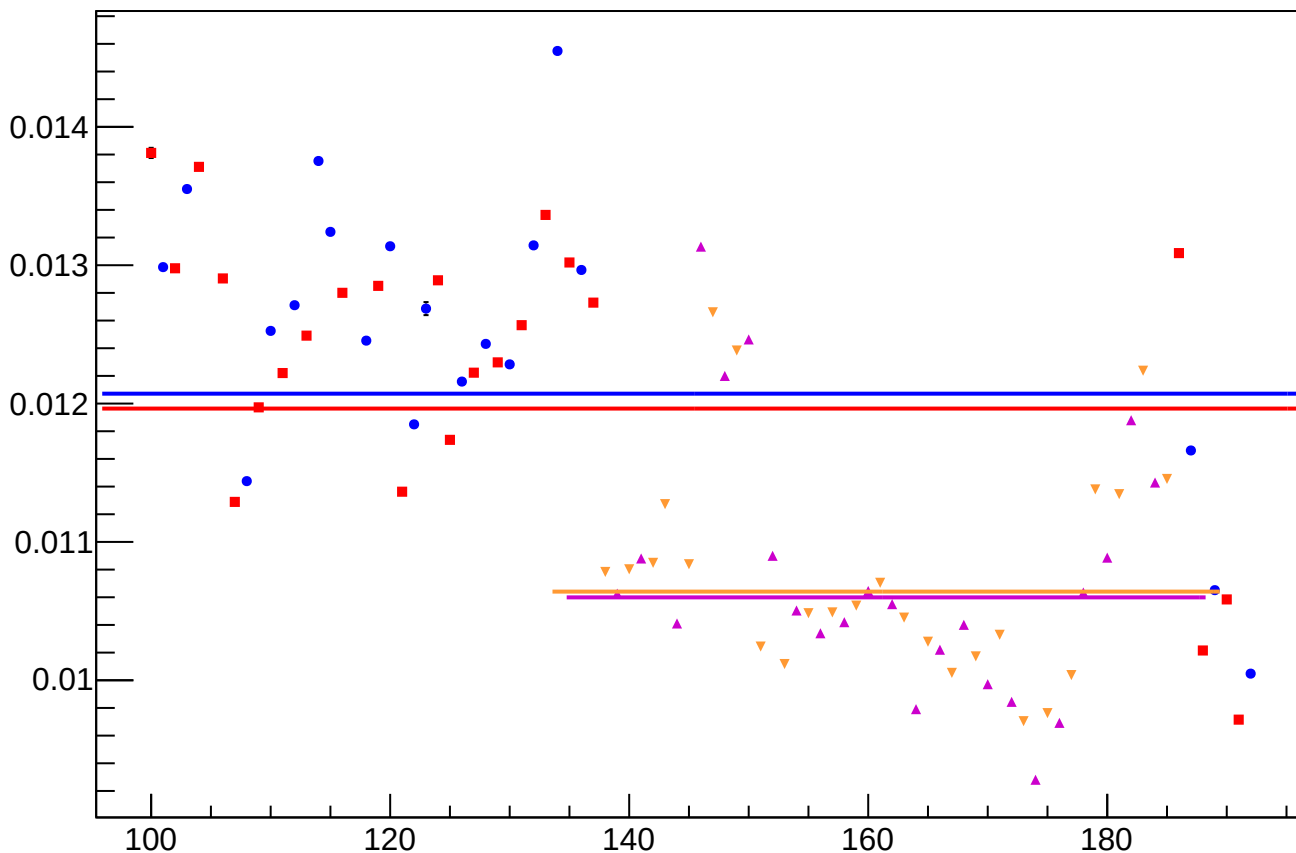
Right: 1.332+/-0.000 χ^2/NDF : 48246682317.8/42

In: 1.504+/-0.000 χ^2/NDF : 41184725152.9/42

Out: 1.546+/-0.000 χ^2/NDF : 43889585331.2/47

All: 1.525+/-0.000 χ^2/NDF : 85254820619.2/9

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 150621.9/19

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 157184.7/22

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

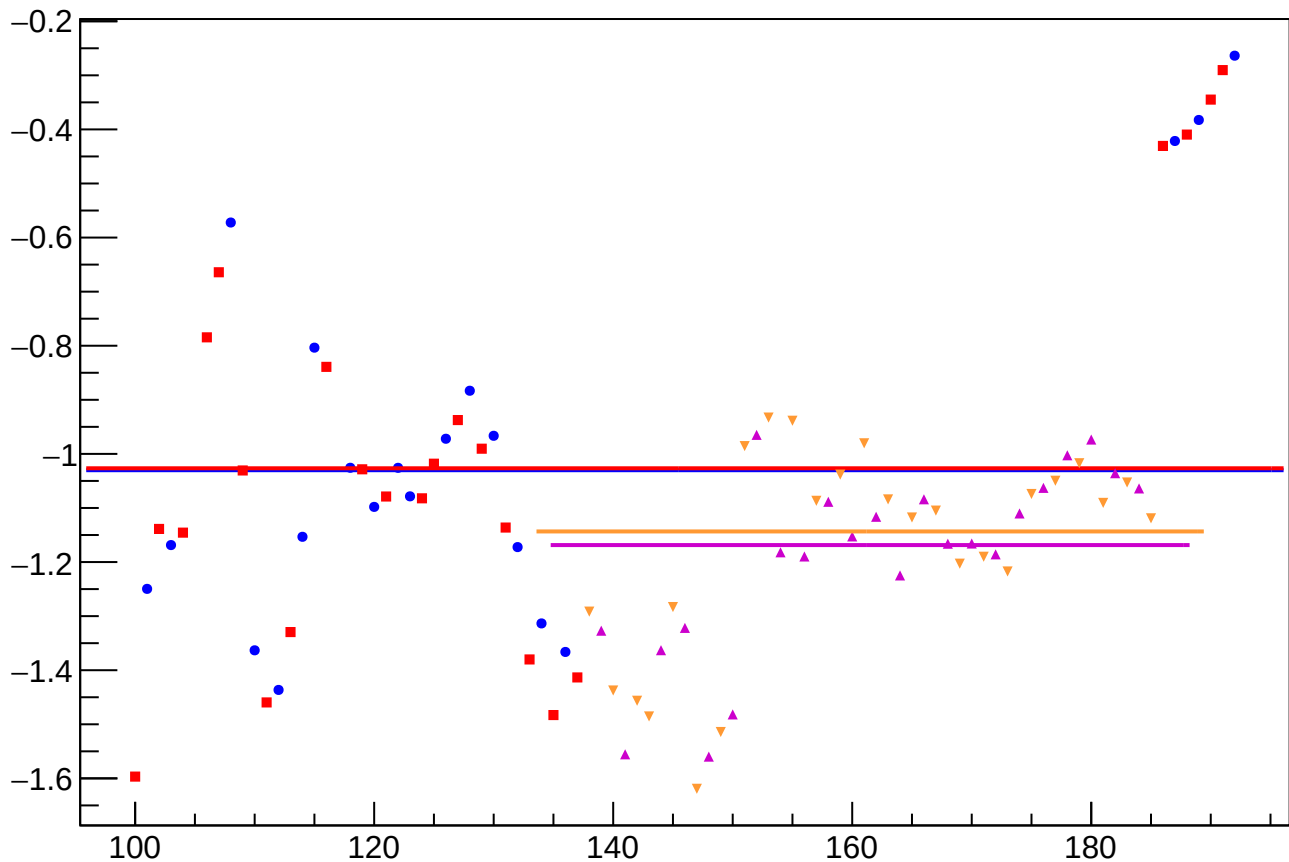
Right: 0.012+/-0.000 χ^2/NDF : 308472.9/42

In: 0.011+/-0.000 χ^2/NDF :528524.7/42

Out: 0.011+/-0.000 χ^2/NDF :469318.6/47

All: 0.011+/-0.000 χ^2/NDF : 997875.1/90

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.030+/-0.000 χ^2/NDF : 10067525370.9/19

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -1.027+/-0.000 χ^2/NDF : 10543926764.8/22

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

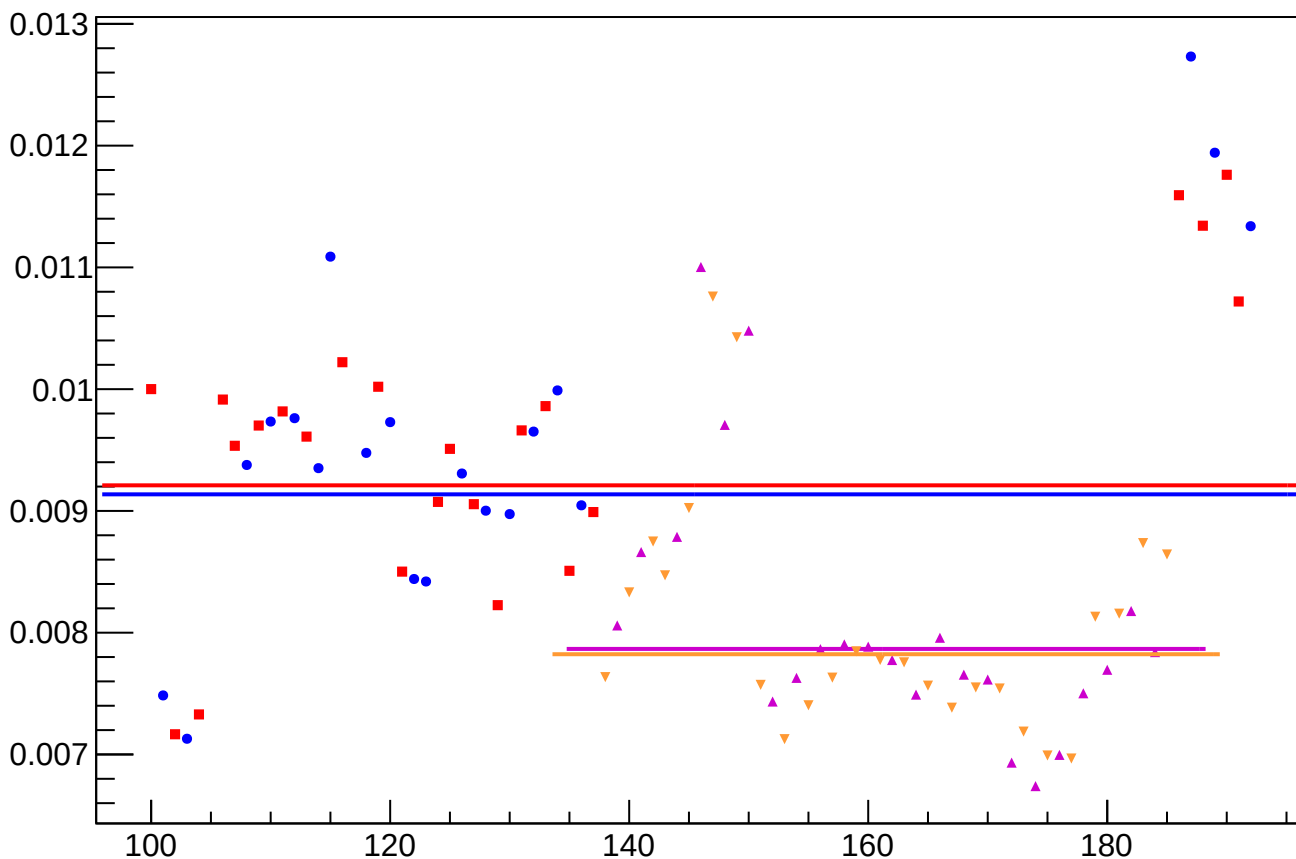
Right: -1.028+/-0.000 χ^2/NDF : 20612054899.6/42

In: -1.132+/-0.000 χ^2/NDF : 17746844217.8/42

Out: -1.113+/-0.000 χ^2/NDF : 19513116802.5/47

All: -1.122+/-0.000 χ^2/NDF : 37328040655.5/94

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 312142.6/19

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 330250.7/22

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

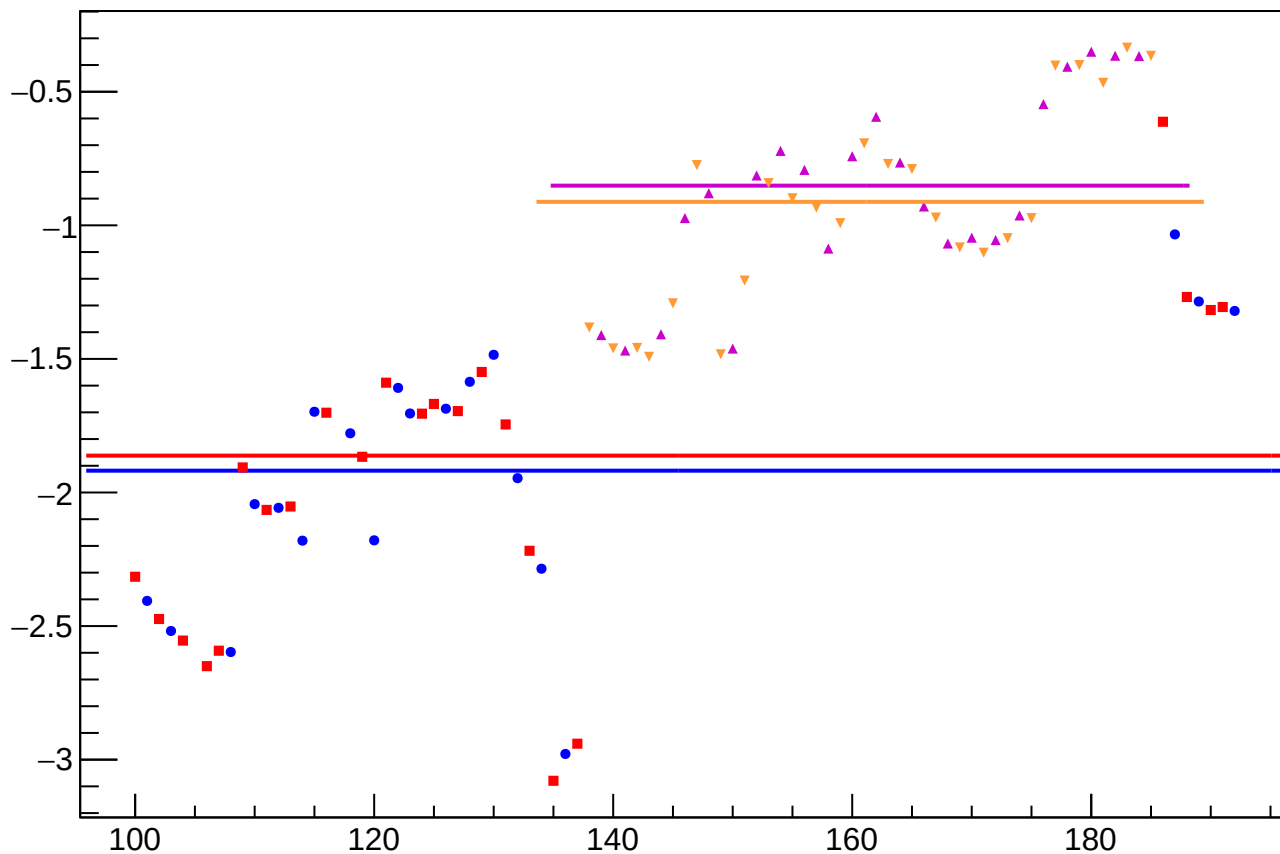
Right: 0.009+/-0.000 χ^2/NDF : 642917.0/42

In: 0.008+/-0.000 χ^2/NDF :913446.8/42

Out: 0.008+/-0.000 χ^2/NDF :946722.4/47

All: 0.008+/-0.000 χ^2/NDF : 1860260.0/90

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -1.918 ± 0.000 $\chi^2/\text{NDF}: 47778418577.0/19$

Left Out: -0.912 ± 0.000 $\chi^2/\text{NDF}: 49039425818.1/24$

Right Out: -1.862 ± 0.000 $\chi^2/\text{NDF}: 67961337980.4/22$

Left In: -0.851 ± 0.000 $\chi^2/\text{NDF}: 46438446008.2/22$

Left: -0.882 ± 0.000 $\chi^2/\text{NDF}: 96285672564.6/47$

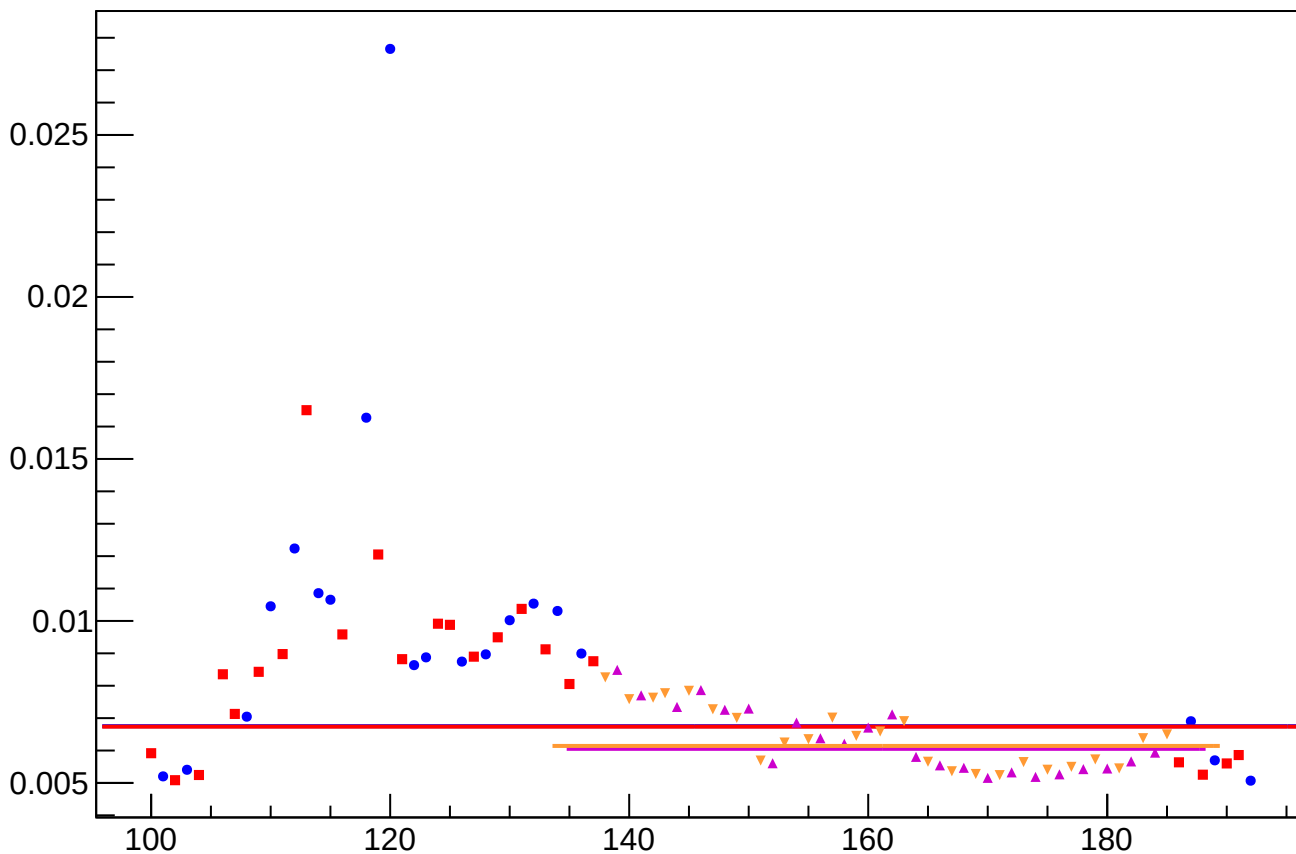
Right: -1.888 ± 0.000 $\chi^2/\text{NDF}: 115973375863.0/42$

In: -1.108 ± 0.000 $\chi^2/\text{NDF}: 213341694947.1/42$

Out: -1.161 ± 0.000 $\chi^2/\text{NDF}: 222348932197.6/47$

All: -1.135 ± 0.000 $\chi^2/\text{NDF}: 436516305160.5$

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 1546850.6/19

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1237957.3/22

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

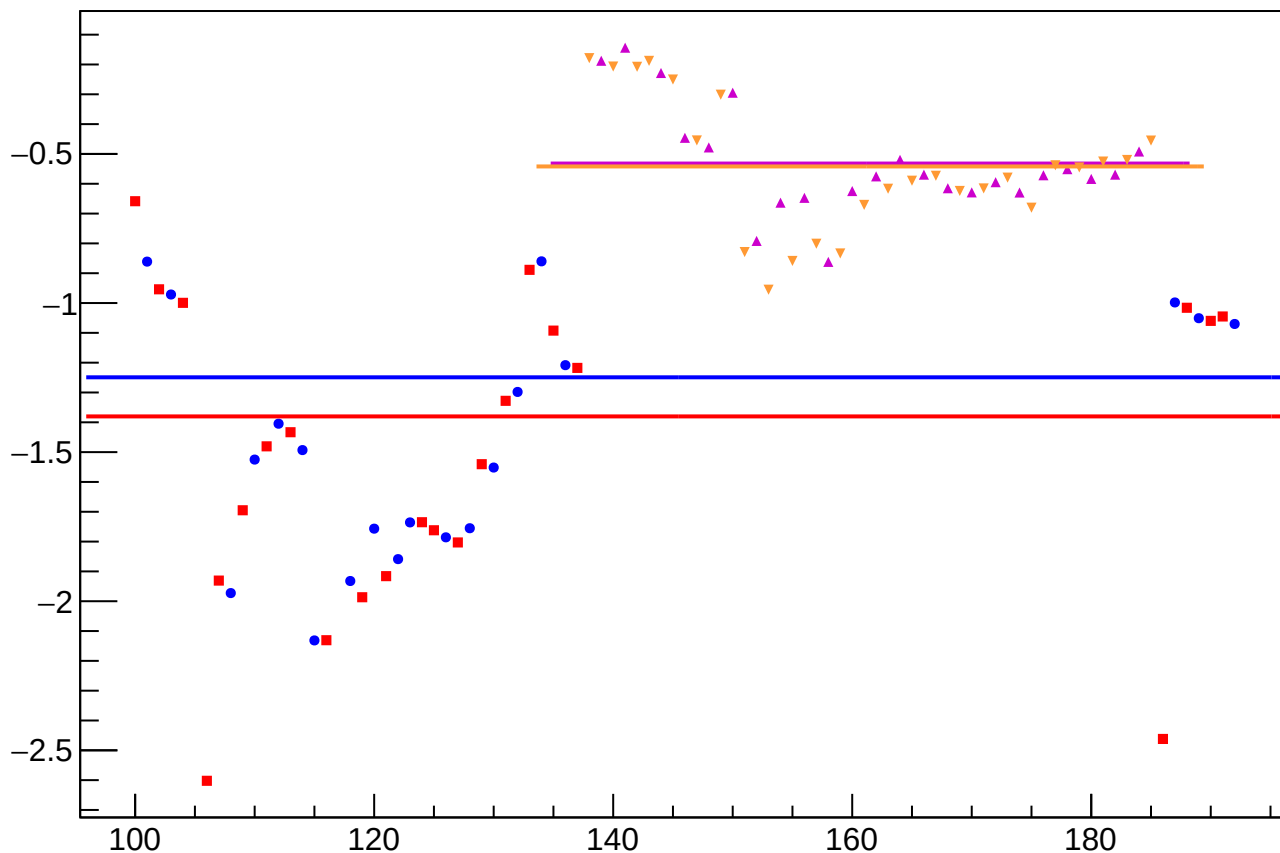
Right: 0.007+/-0.000 χ^2/NDF : 2784839.4/42

In: 0.006+/-0.000 χ^2/NDF : 2346685.9/42

Out: 0.006+/-0.000 χ^2/NDF : 1958313.3/47

All: 0.006+/-0.000 χ^2/NDF : 4308514.3/90

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.249 $\pm$ 0.000 χ^2 /NDF: 25305079322.4/19

Left Out: -0.542 $\pm$ 0.000 χ^2 /NDF: 47268284910.3/24

Right Out: -1.380 $\pm$ 0.000 χ^2 /NDF: 70284353374.3/22

Left In: -0.532 $\pm$ 0.000 χ^2 /NDF: 30715235426.8/22

Left: -0.537 $\pm$ 0.000 χ^2 /NDF: 78028833870.1/47

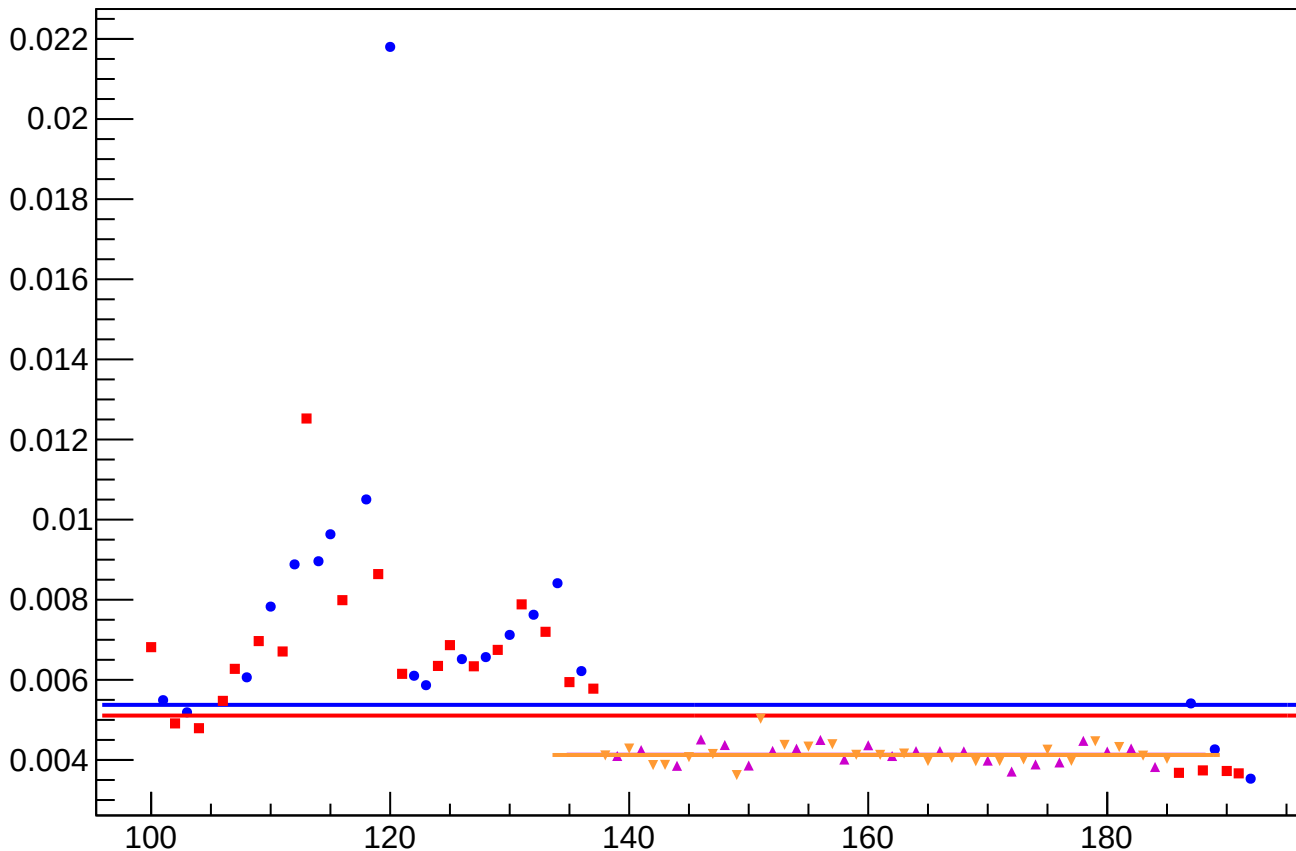
Right: -1.322 $\pm$ 0.000 χ^2 /NDF: 97680141909.1/42

In: -0.668 $\pm$ 0.000 χ^2 /NDF: 147466298489.6/42

Out: -0.723 $\pm$ 0.000 χ^2 /NDF: 267695122367.1/47

All: -0.697 $\pm$ 0.000 χ^2 /NDF: 416926406127.1

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1371466.8/19

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1259623.6/22

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

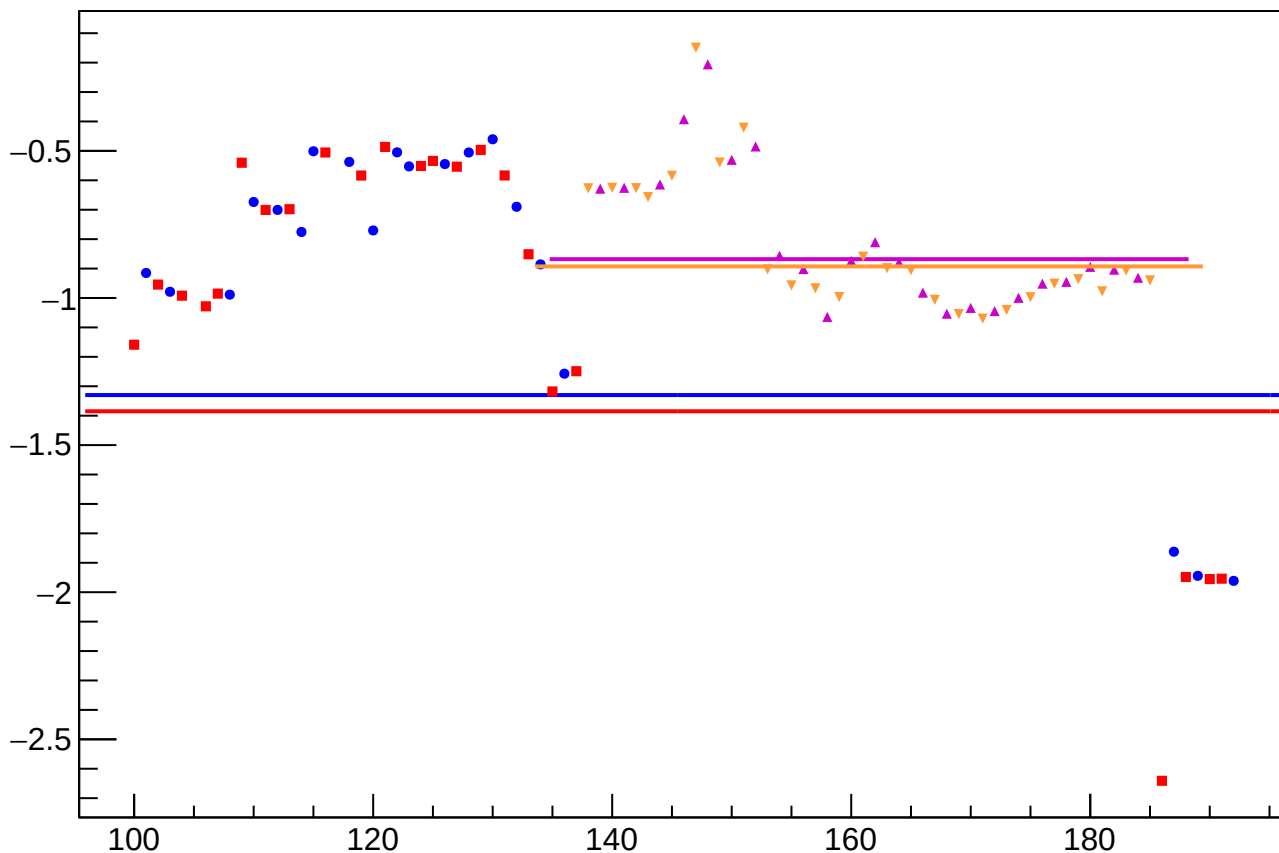
Right: 0.005+/-0.000 χ^2/NDF : 2648454.7/42

In: 0.004+/-0.000 χ^2/NDF :2016767.2/42

Out: 0.004+/-0.000 χ^2/NDF :1786151.9/47

All: 0.004+/-0.000 χ^2/NDF : 3804012.1/90

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.330+/-0.000

χ^2/NDF : 128239864584.2/19

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

Right Out: -1.385+/-0.000

χ^2/NDF : 190672024392.7/22

Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Right: -1.359+/-0.000

χ^2/NDF : 319489287597.8/42

In: -0.980+/-0.000

χ^2/NDF : 229901881686.6/42

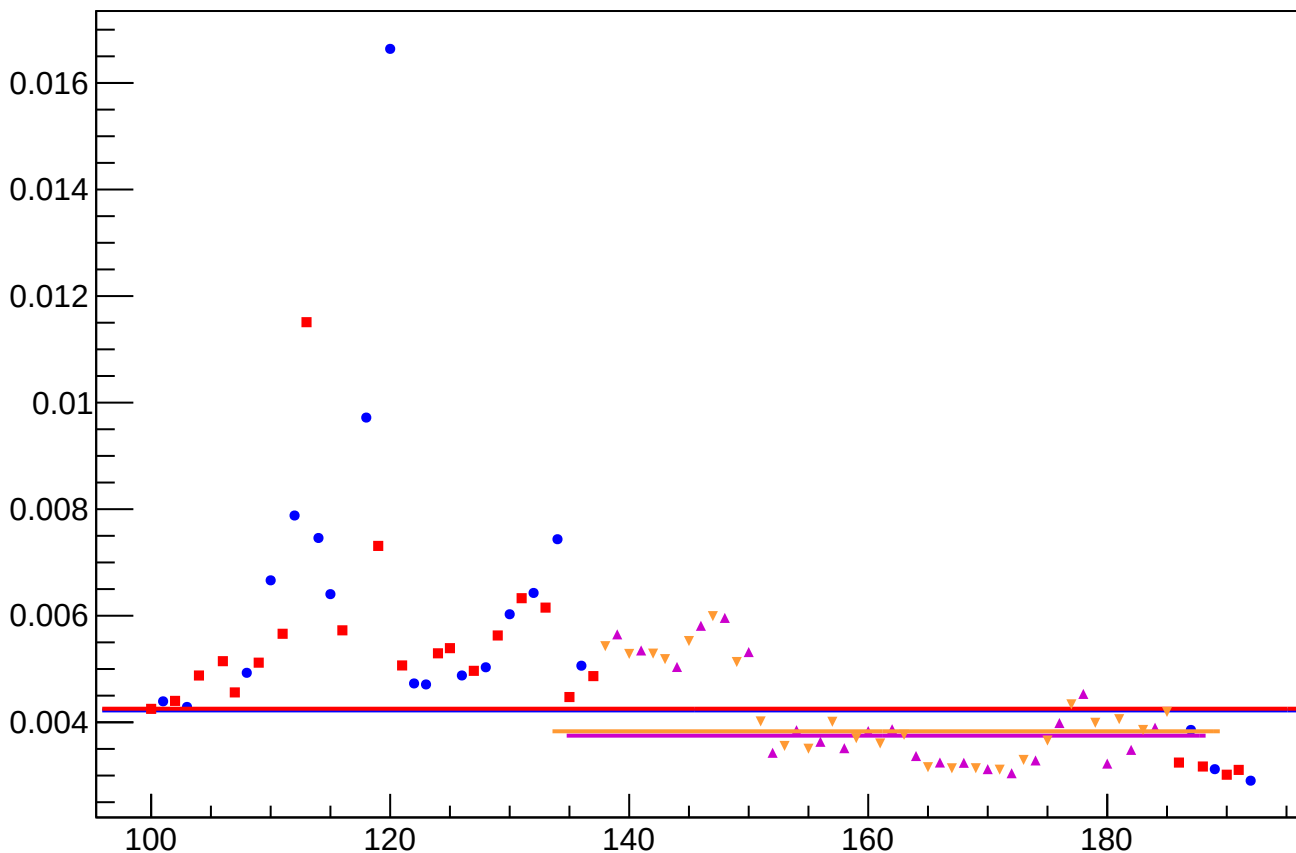
Out: -1.023+/-0.000

χ^2/NDF : 303601231372.2/47

All: -1.002+/-0.000

χ^2/NDF : 534870490449.7

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1531496.8/19

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1186816.6/22

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

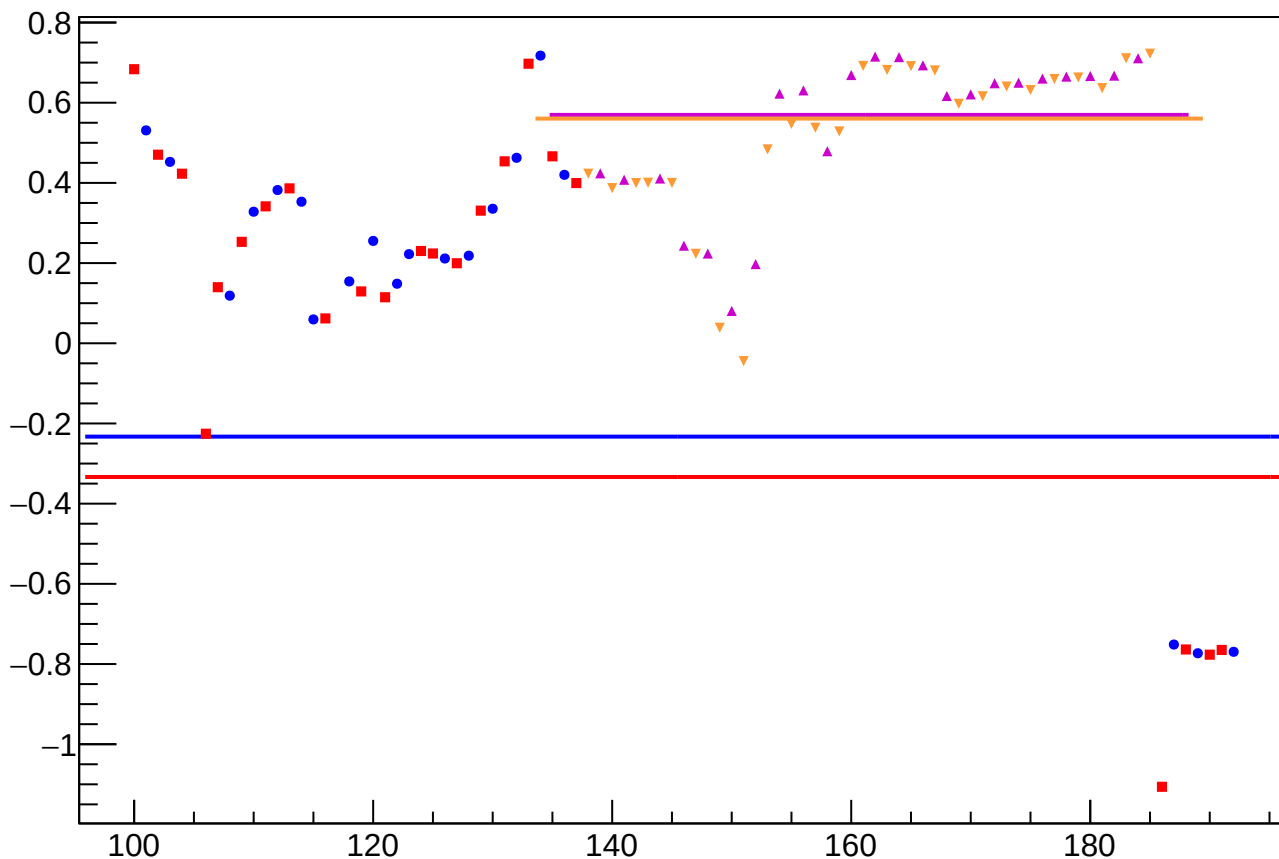
Right: 0.004+/-0.000 χ^2/NDF : 2718701.3/42

In: 0.004+/-0.000 χ^2/NDF :2941557.2/42

Out: 0.004+/-0.000 χ^2/NDF :2473500.1/47

All: 0.004+/-0.000 χ^2/NDF : 5424391.7/90

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.233+/-0.000 χ^2/NDF : 233521940429.2/19

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.333+/-0.000 χ^2/NDF : 317955485959.2/22

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

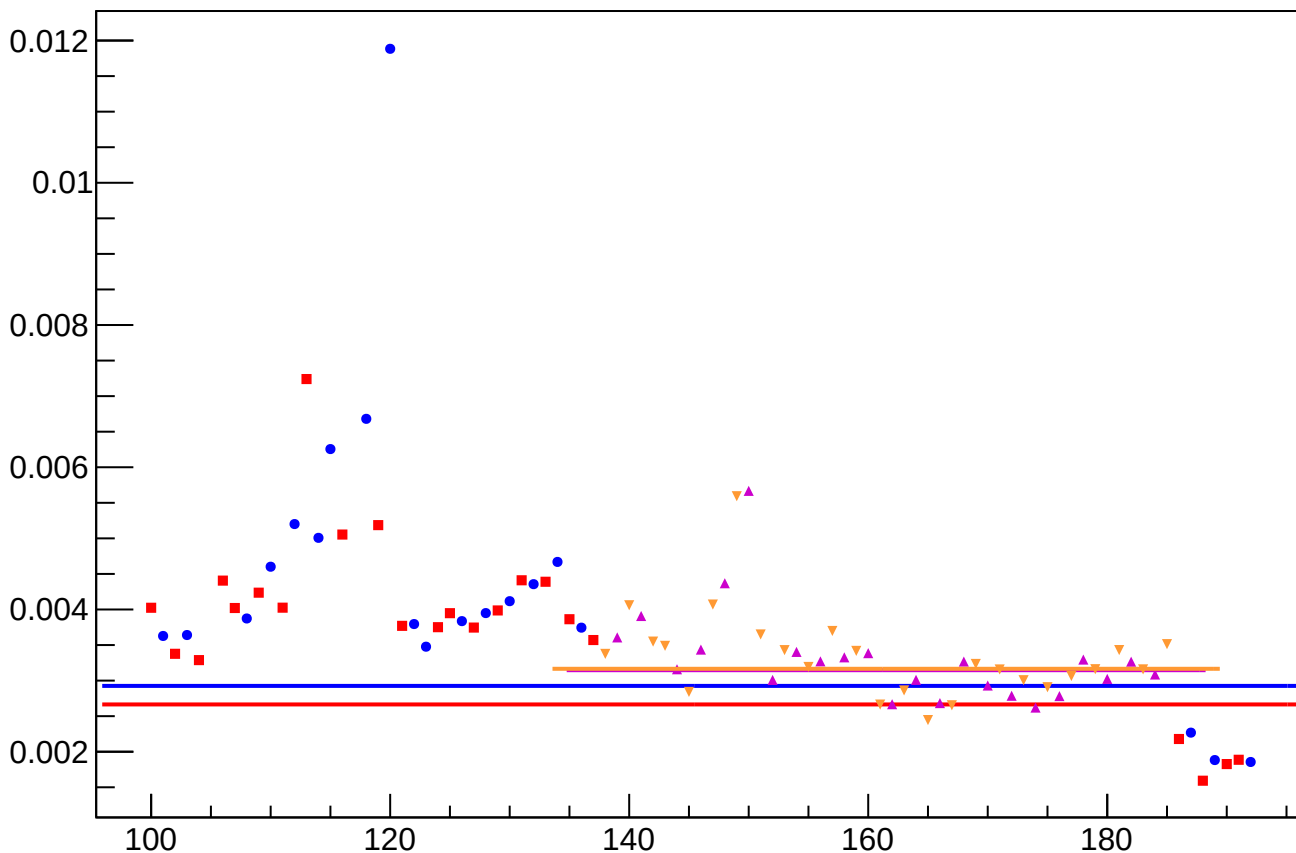
Right: -0.290+/-0.000 χ^2/NDF : 555608720423.7/42

In: 0.316+/-0.000 χ^2/NDF : 593118926511.3/42

Out: 0.232+/-0.000 χ^2/NDF : 837712404317.2/47

All: 0.272+/-0.000 χ^2/NDF : 1439193908172.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2147409.5/19

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 2505303.1/22

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

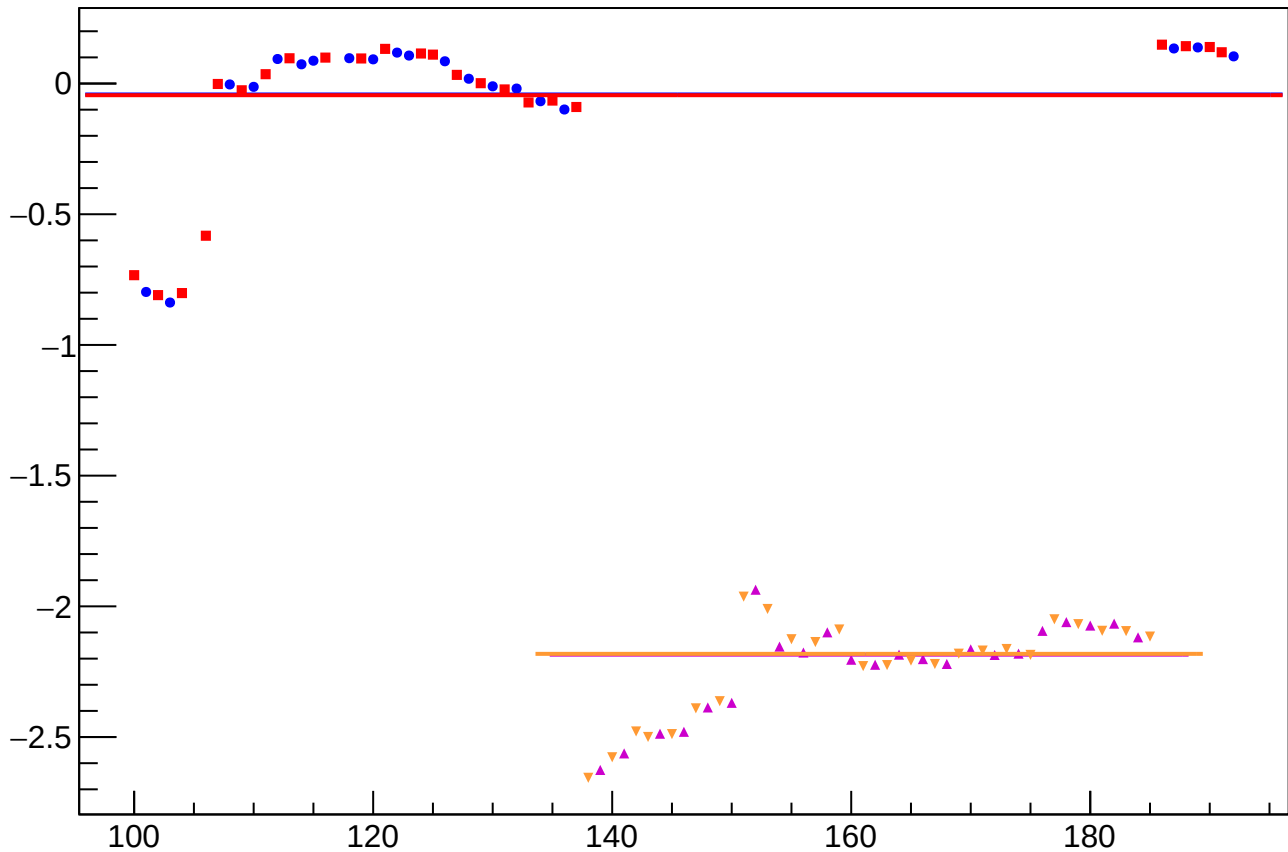
Right: 0.003+/-0.000 χ^2/NDF : 4708174.3/42

In: 0.003+/-0.000 χ^2/NDF : 2911878.1/42

Out: 0.003+/-0.000 χ^2/NDF : 3548671.6/47

All: 0.003+/-0.000 χ^2/NDF : 6482005.3/90

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.042 ± 0.000 $\chi^2/\text{NDF}: 5503158986.7/19$

Left Out: -2.182 ± 0.000 $\chi^2/\text{NDF}: 4008829567.0/24$

Right Out: -0.045 ± 0.000 $\chi^2/\text{NDF}: 6443630810.1/22$

Left In: -2.185 ± 0.000 $\chi^2/\text{NDF}: 3372742534.3/22$

Left: -2.183 ± 0.000 $\chi^2/\text{NDF}: 7382310821.5/47$

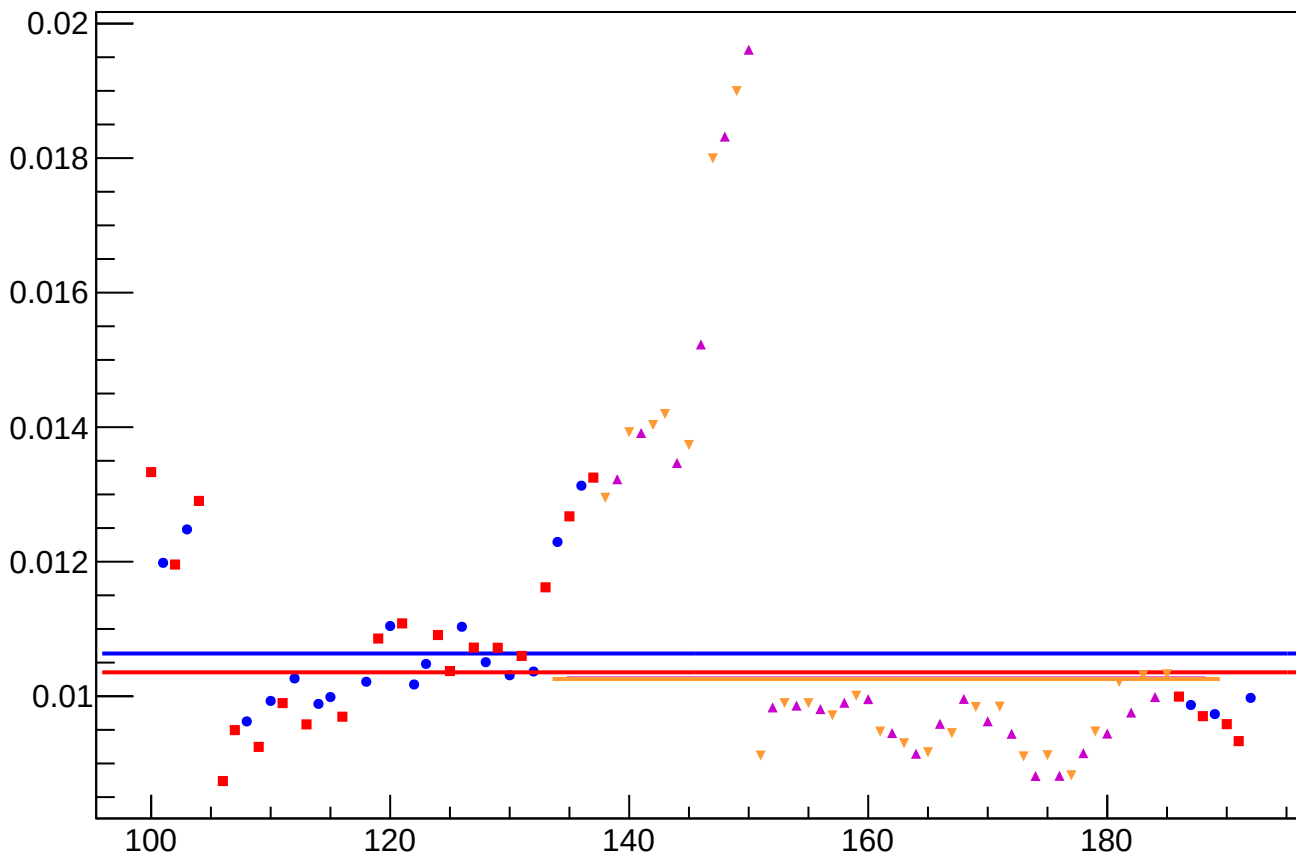
Right: -0.043 ± 0.000 $\chi^2/\text{NDF}: 11947071749.6/42$

In: -1.513 ± 0.000 $\chi^2/\text{NDF}: 235605808849.8/42$

Out: -1.477 ± 0.000 $\chi^2/\text{NDF}: 263057215456.3/47$

All: -1.494 ± 0.000 $\chi^2/\text{NDF}: 498812385038.6$

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 147023.7/19

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 204166.0/22

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

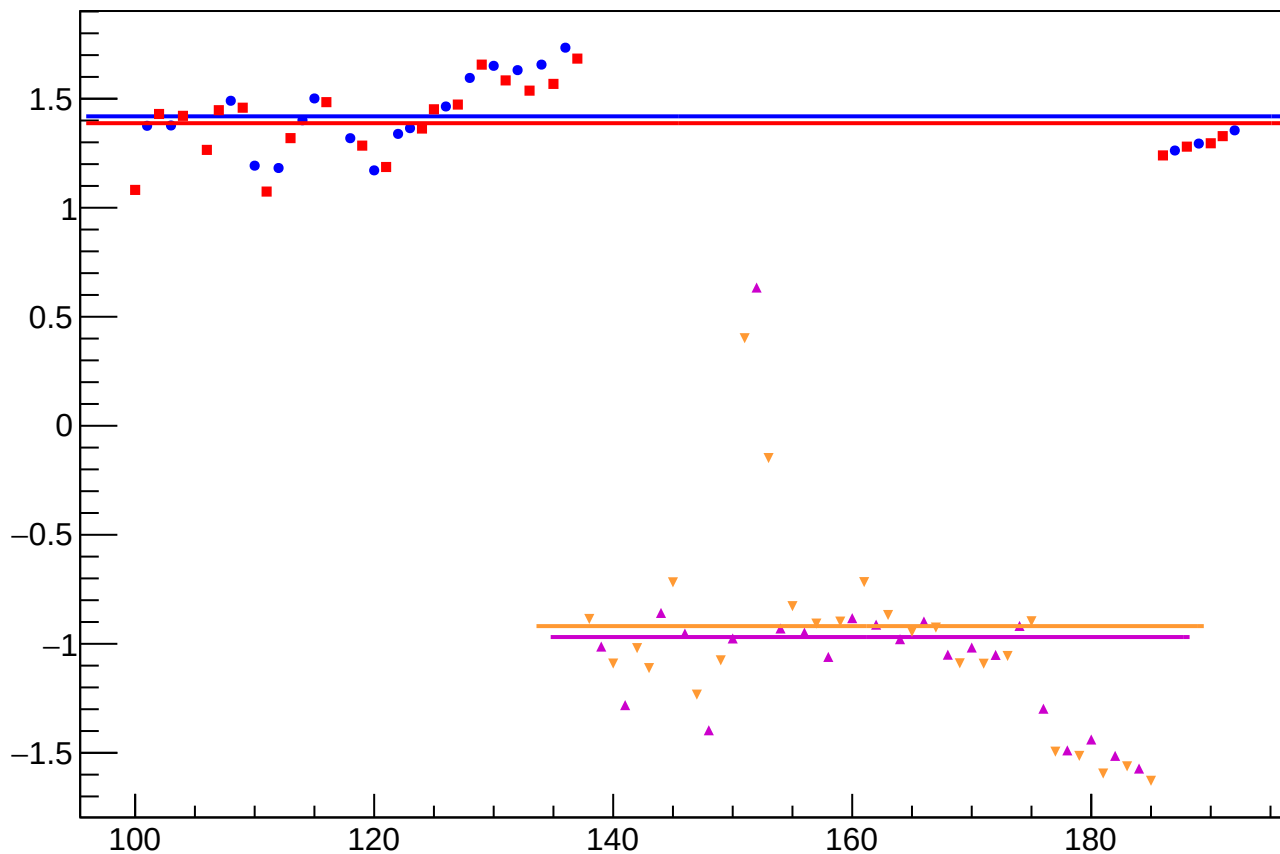
Right: 0.010+/-0.000 χ^2/NDF : 357204.1/42

In: 0.010+/-0.000 χ^2/NDF :1500849.5/42

Out: 0.010+/-0.000 χ^2/NDF :1475872.7/47

All: 0.010+/-0.000 χ^2/NDF : 2978744.1/90

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.419 $\pm$ 0.000 χ^2 /NDF: 3753714392.6/19

Left Out: -0.919 $\pm$ 0.000 χ^2 /NDF: 55622252895.8/24

Right Out: 1.388 $\pm$ 0.000 χ^2 /NDF: 3190786169.4/22

Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

Left: -0.943 $\pm$ 0.000 χ^2 /NDF: 110825900215.1/47

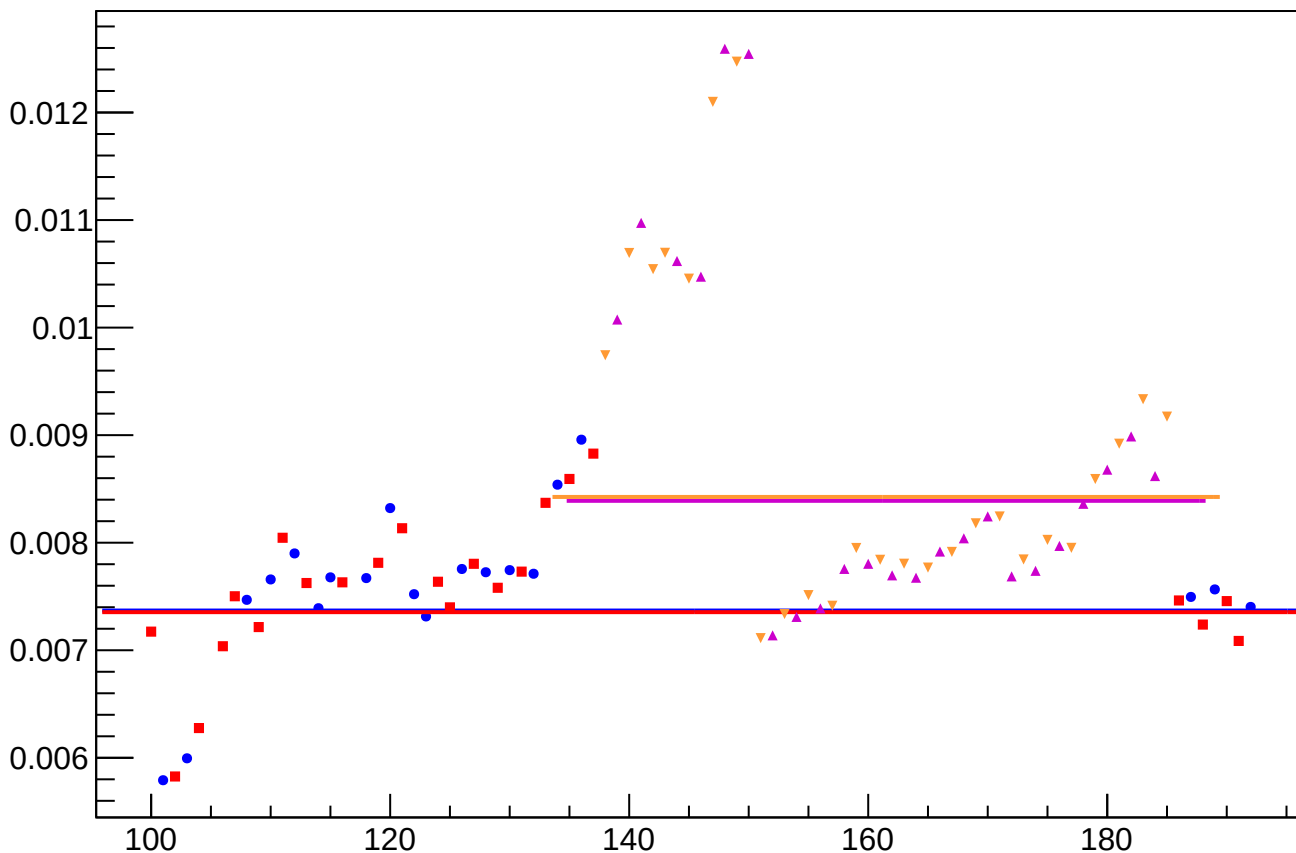
Right: 1.403 $\pm$ 0.000 χ^2 /NDF: 7021565332.2/42

In: -0.053 $\pm$ 0.000 χ^2 /NDF: 582222191705.5/42

Out: -0.010 $\pm$ 0.000 χ^2 /NDF: 587086891626.4/47

All: -0.031 $\pm$ 0.000 χ^2 /NDF: 1169678690509

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 229531.8/19

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 173957.4/22

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

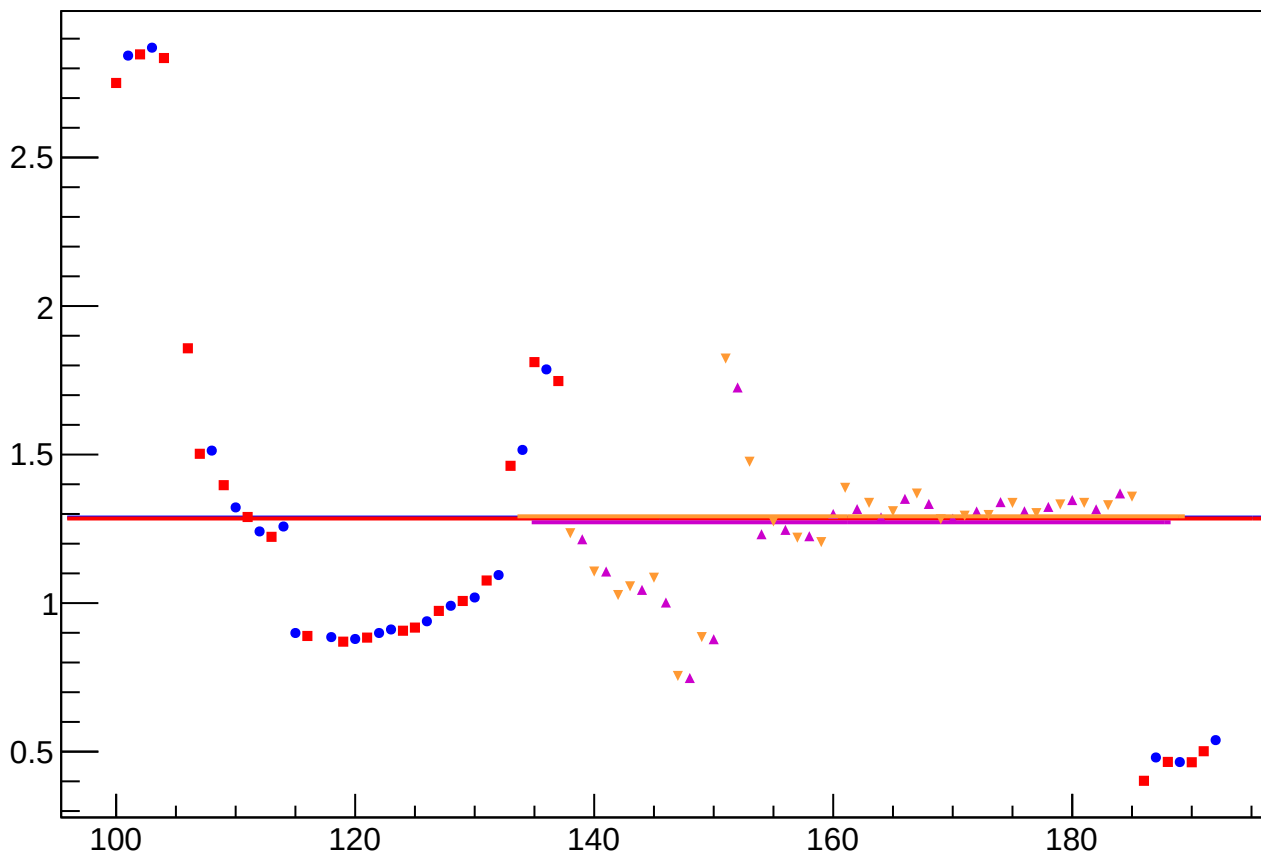
Right: 0.007+/-0.000 χ^2/NDF : 403524.2/42

In: 0.008+/-0.000 χ^2/NDF : 1260509.1/42

Out: 0.008+/-0.000 χ^2/NDF : 1194164.3/47

All: 0.008+/-0.000 χ^2/NDF : 2454684.7/90

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.288 $\pm$ 0.000 χ^2 /NDF: 64397158627.0/19

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.285 $\pm$ 0.000 χ^2 /NDF: 64900386872.0/22

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

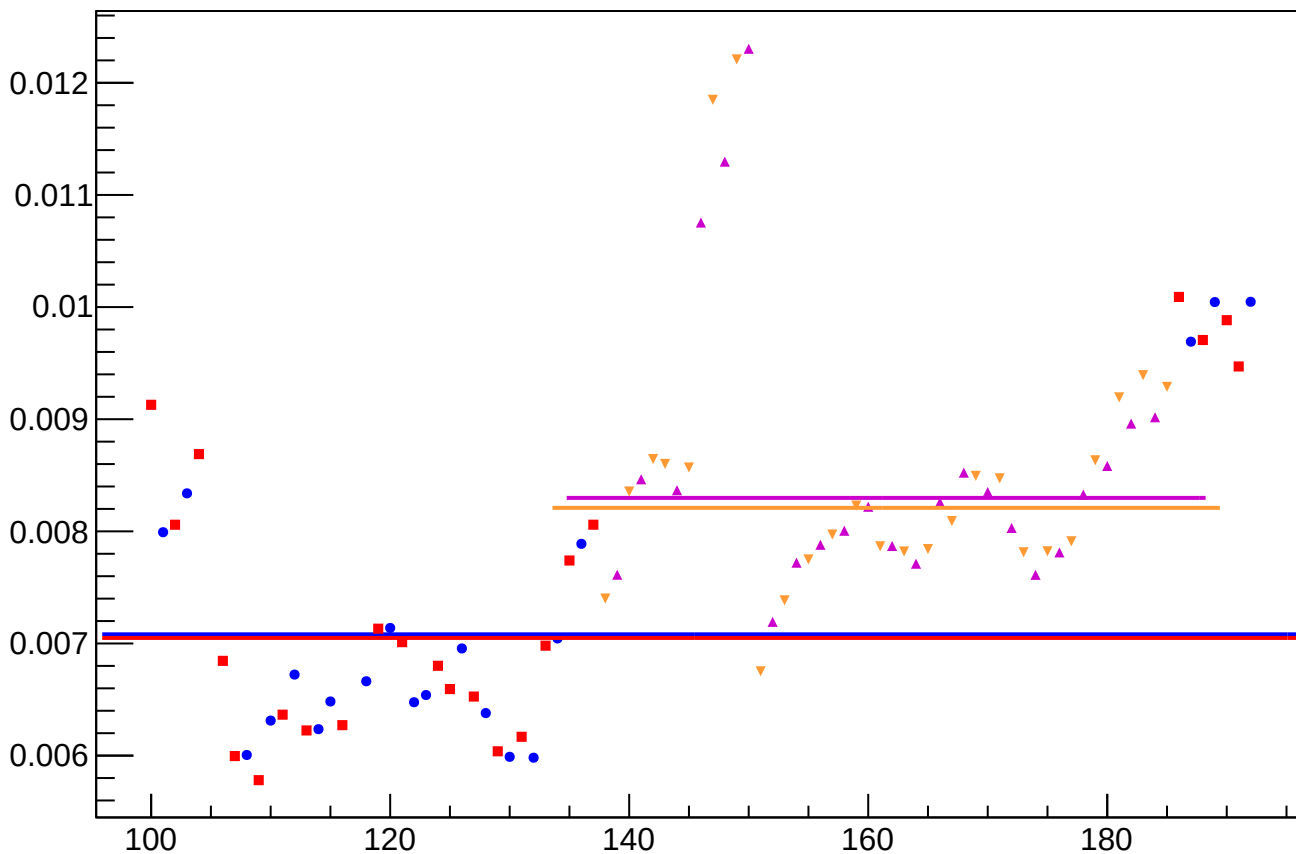
Right: 1.286 $\pm$ 0.000 χ^2 /NDF: 129298382296.7/42

In: 1.278 $\pm$ 0.000 χ^2 /NDF: 71995583945.9/42

Out: 1.289 $\pm$ 0.000 χ^2 /NDF: 74211311106.5/47

All: 1.284 $\pm$ 0.000 χ^2 /NDF: 146231699976.4

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 449494.5/19

Left Out: 0.008+/-0.000 χ^2/NDF :478864.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 518510.1/22

Left In: 0.008+/-0.000 χ^2/NDF :462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

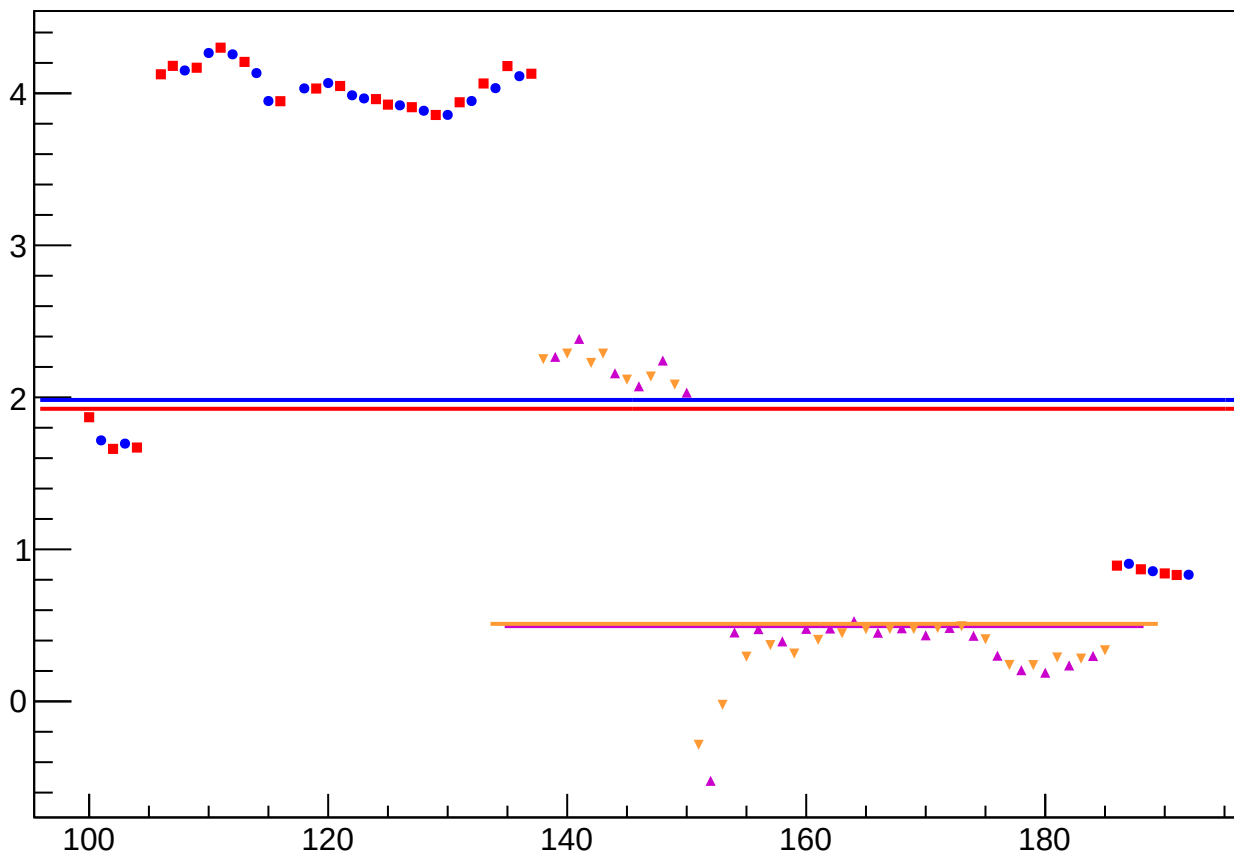
Right: 0.007+/-0.000 χ^2/NDF : 968176.5/42

In: 0.008+/-0.000 χ^2/NDF :1196493.6/42

Out: 0.008+/-0.000 χ^2/NDF :1279958.1/47

All: 0.008+/-0.000 χ^2/NDF : 2478578.3/90

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.983+/-0.000 χ^2/NDF : 1143998656166.1/19

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.925+/-0.000 χ^2/NDF : 1302925552120.8/22

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

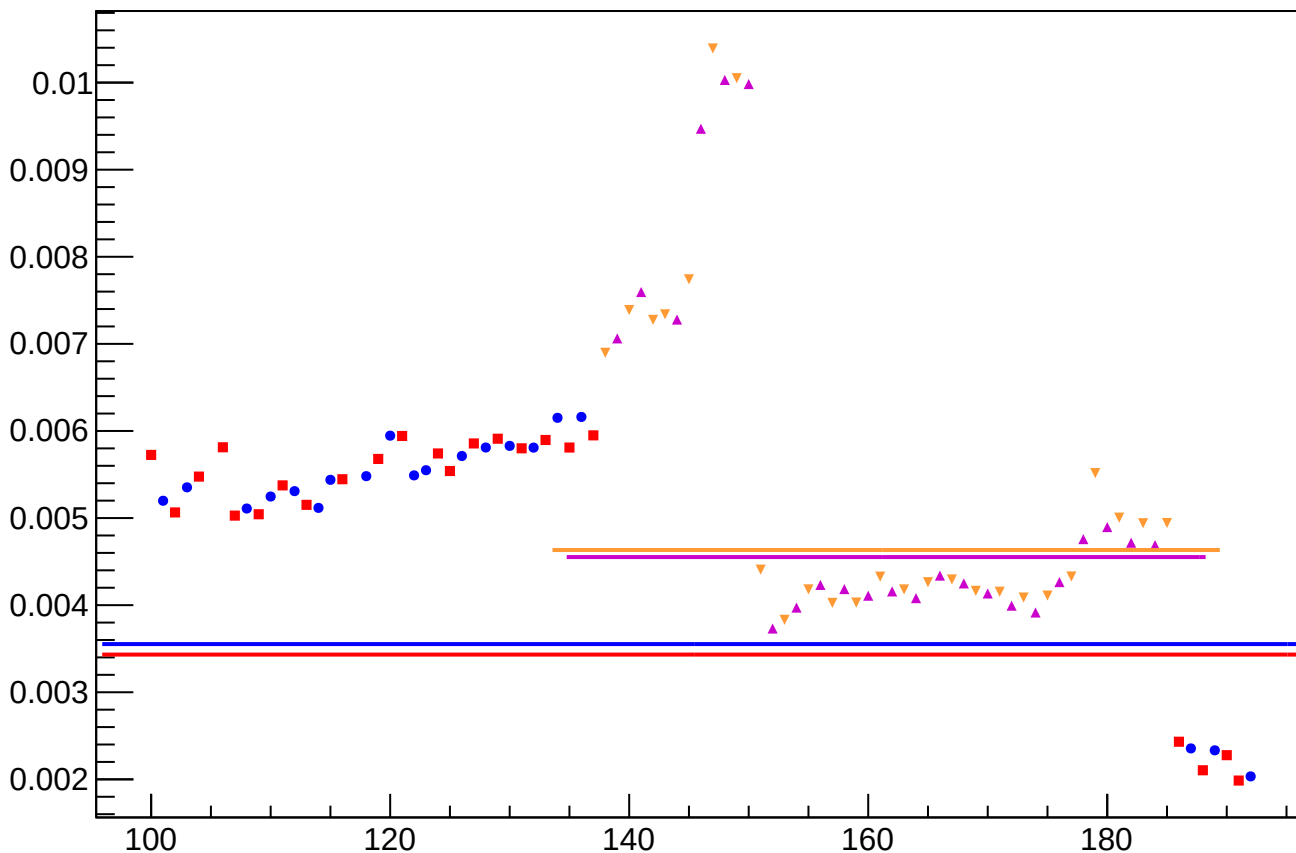
Right: 1.952+/-0.000 χ^2/NDF : 2447871283480.0/42

In: 1.101+/-0.000 χ^2/NDF : 2096153598664.8/42

Out: 1.128+/-0.000 χ^2/NDF : 2256292701125.2/47

All: 1.115+/-0.000 χ^2/NDF : 4352915011541.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3027303.7/19

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 3241383.9/22

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

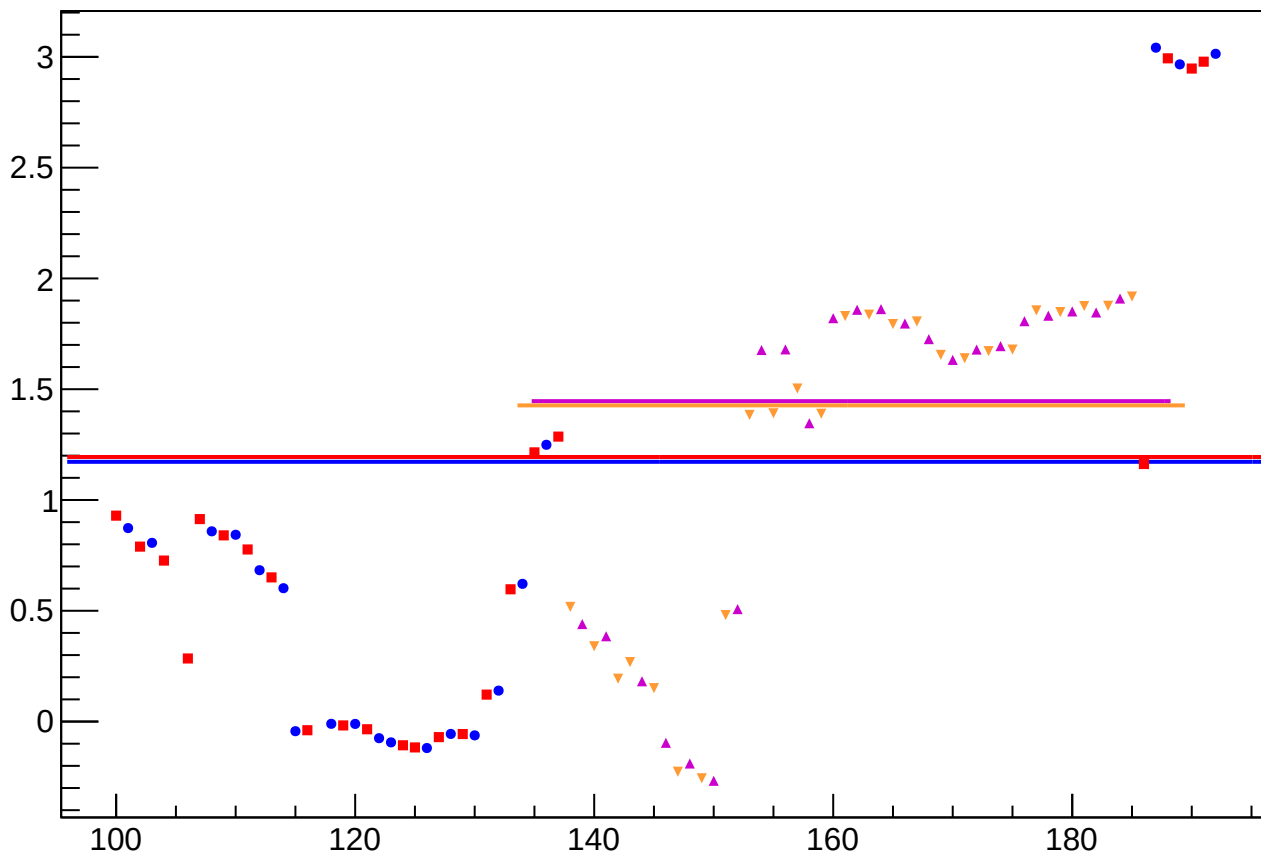
Right: 0.003+/-0.000 χ^2/NDF : 6276799.5/42

In: 0.004+/-0.000 χ^2/NDF :5881147.6/42

Out: 0.004+/-0.000 χ^2/NDF :6332545.8/47

All: 0.004+/-0.000 χ^2/NDF : 12215447.4/90

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.172 $\pm$ 0.000 χ^2 /NDF: 72504992322.7/19

Left Out: 1.427 $\pm$ 0.000 χ^2 /NDF: 49990787038.3/24

Right Out: 1.194 $\pm$ 0.000 χ^2 /NDF: 71776502522.9/22

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

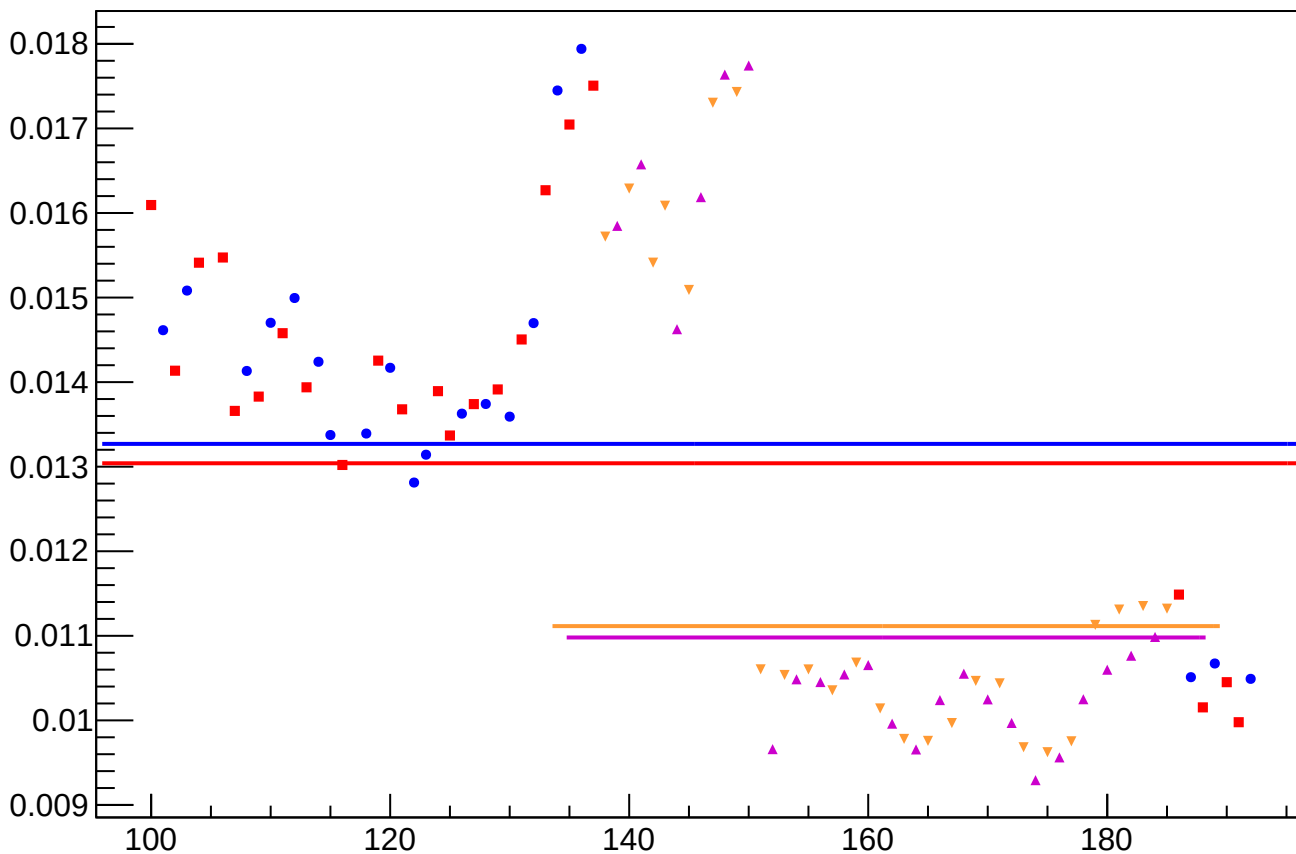
Right: 1.184 $\pm$ 0.000 χ^2 /NDF: 144292862048.6/42

In: 1.378 $\pm$ 0.000 χ^2 /NDF: 128811164698.0/42

Out: 1.366 $\pm$ 0.000 χ^2 /NDF: 123789498573.7/47

All: 1.372 $\pm$ 0.000 χ^2 /NDF: 252614864073.2

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 398825.0/19

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 443938.6/22

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

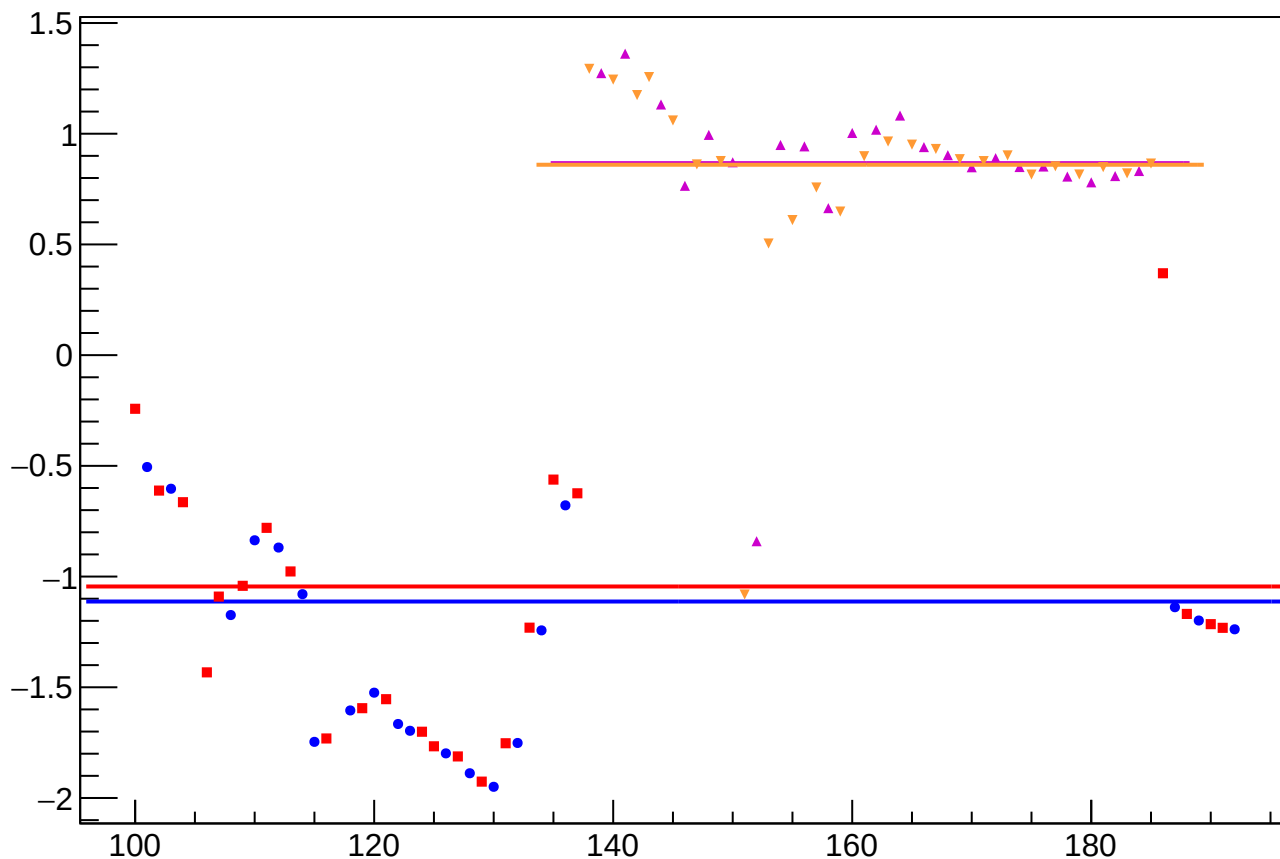
Right: 0.013+/-0.000 χ^2/NDF : 845274.3/42

In: 0.012+/-0.000 χ^2/NDF :2020667.0/42

Out: 0.012+/-0.000 χ^2/NDF :1947974.2/47

All: 0.012+/-0.000 χ^2/NDF : 3969607.7/90

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.113 ± 0.000 $\chi^2/\text{NDF}: 56079657888.9/19$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 126335891175.4/24$

Right Out: -1.045 ± 0.000 $\chi^2/\text{NDF}: 62906623594.6/22$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

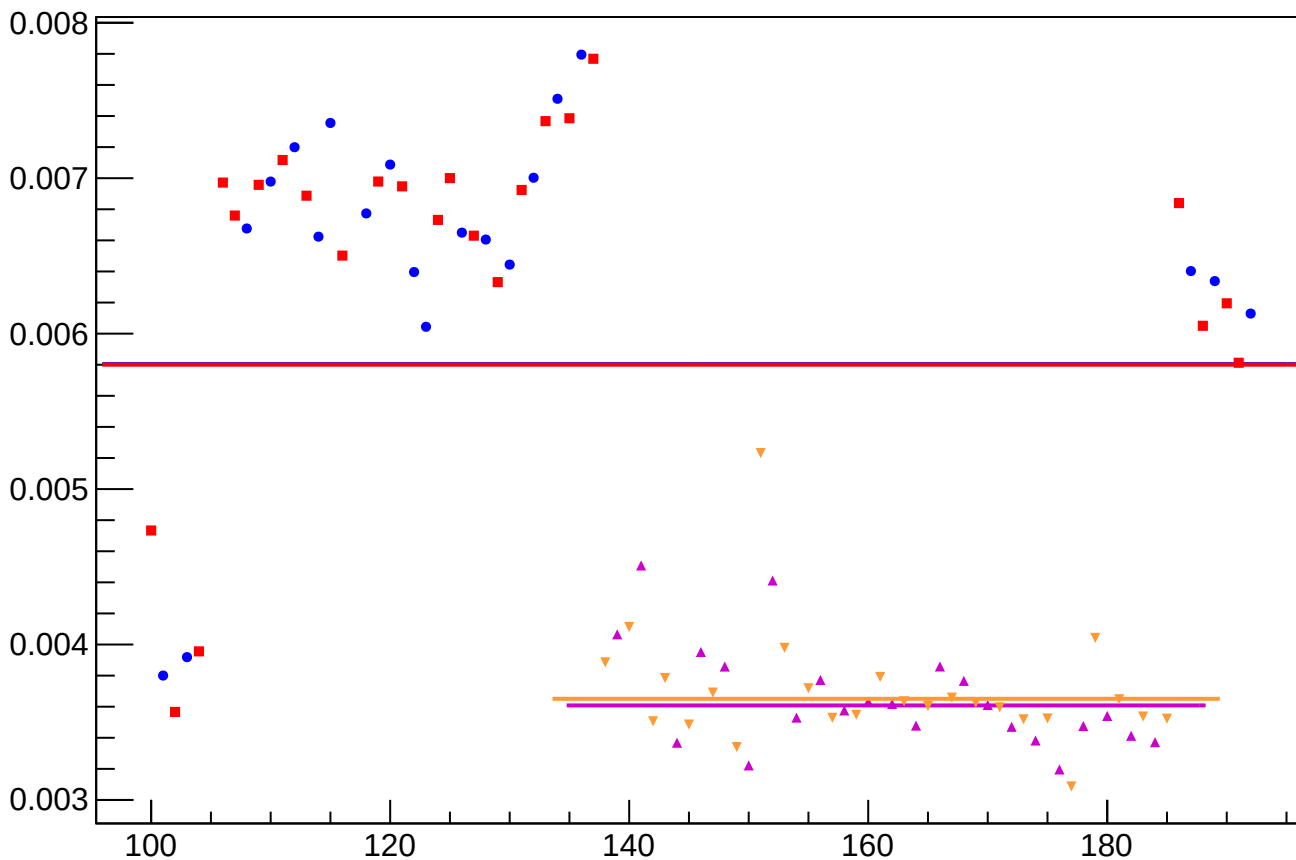
Right: -1.077 ± 0.000 $\chi^2/\text{NDF}: 119510914197.8/42$

In: 0.563 ± 0.000 $\chi^2/\text{NDF}: 930095181215.1/42$

Out: 0.558 ± 0.000 $\chi^2/\text{NDF}: 910721496595.4/47$

All: 0.560 ± 0.000 $\chi^2/\text{NDF}: 1840837234083.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 854750.0/19

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 946651.9/22

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

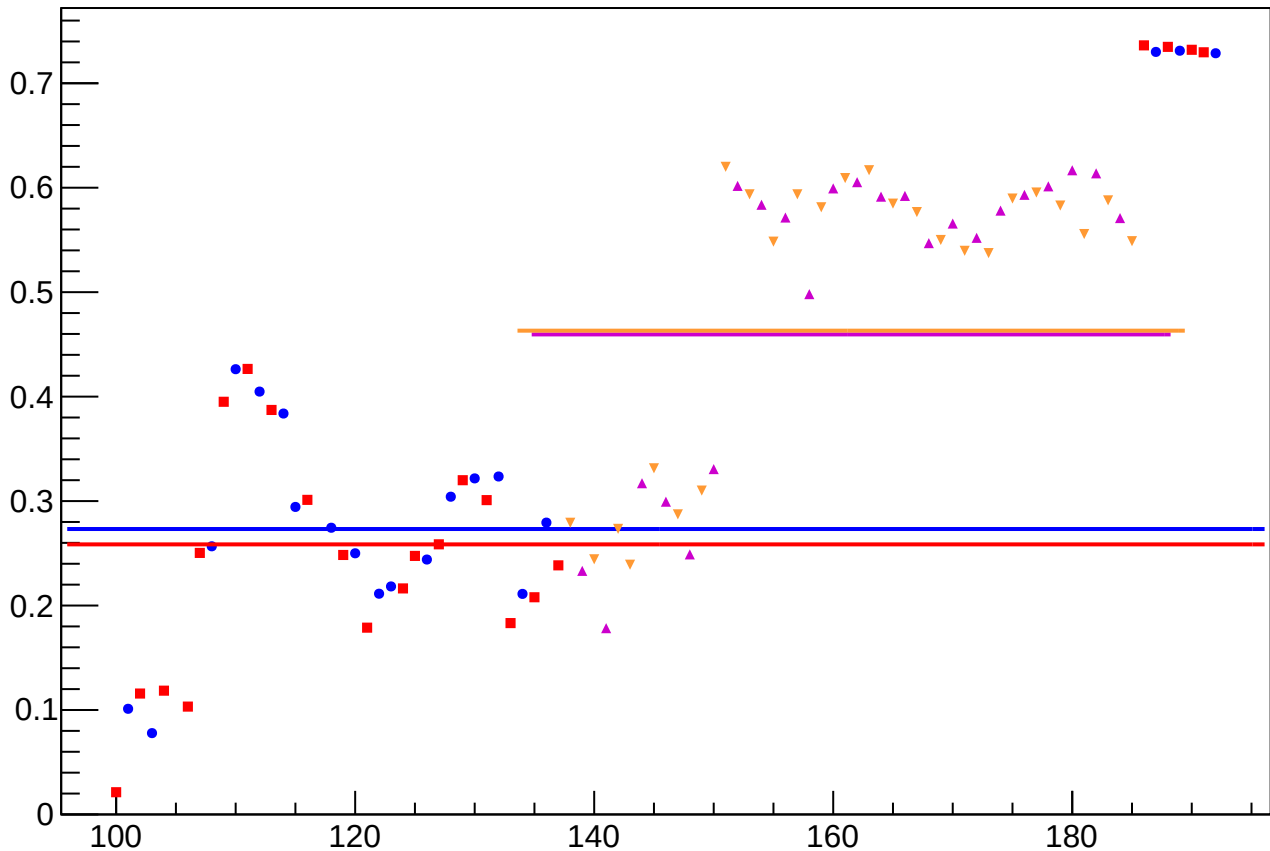
Right: 0.006+/-0.000 χ^2/NDF : 1801403.9/42

In: 0.004+/-0.000 χ^2/NDF :2870477.5/42

Out: 0.004+/-0.000 χ^2/NDF :3022241.8/47

All: 0.004+/-0.000 χ^2/NDF : 5895863.2/90

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.273 $\pm$ 0.000 χ^2 /NDF: 41788217690.3/19

Left Out: 0.463 $\pm$ 0.000 χ^2 /NDF: 102506270538.7/24

Right Out: 0.259 $\pm$ 0.000 χ^2 /NDF: 54483142599.3/22

Left In: 0.460 $\pm$ 0.000 χ^2 /NDF: 104559088628.4/22

Left: 0.461 $\pm$ 0.000 χ^2 /NDF: 207093695005.5/47

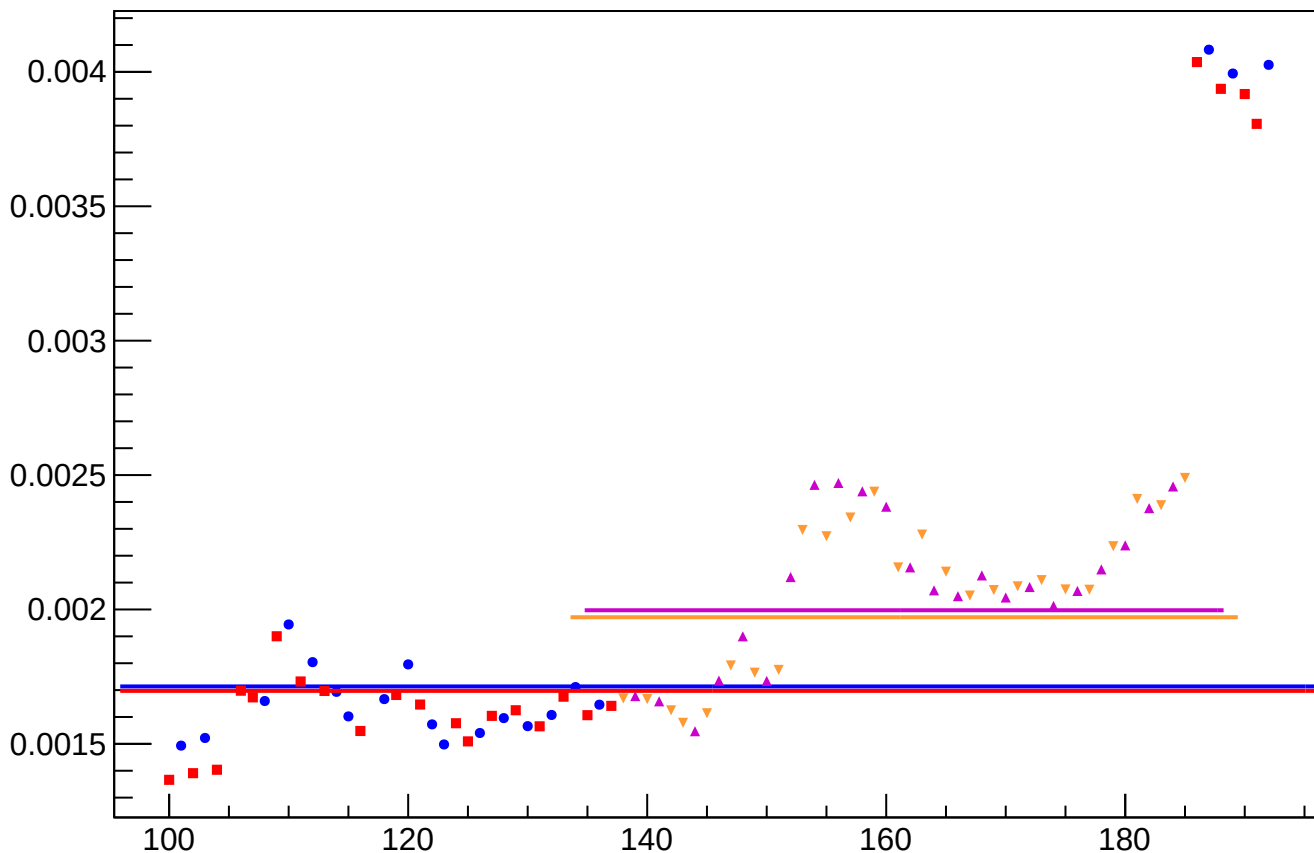
Right: 0.265 $\pm$ 0.000 χ^2 /NDF: 96560552665.0/42

In: 0.390 $\pm$ 0.000 χ^2 /NDF: 201164269734.3/42

Out: 0.385 $\pm$ 0.000 χ^2 /NDF: 230410635409.6/47

All: 0.387 $\pm$ 0.000 χ^2 /NDF: 431645911629.1

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1099956.3/19

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 1350478.5/22

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

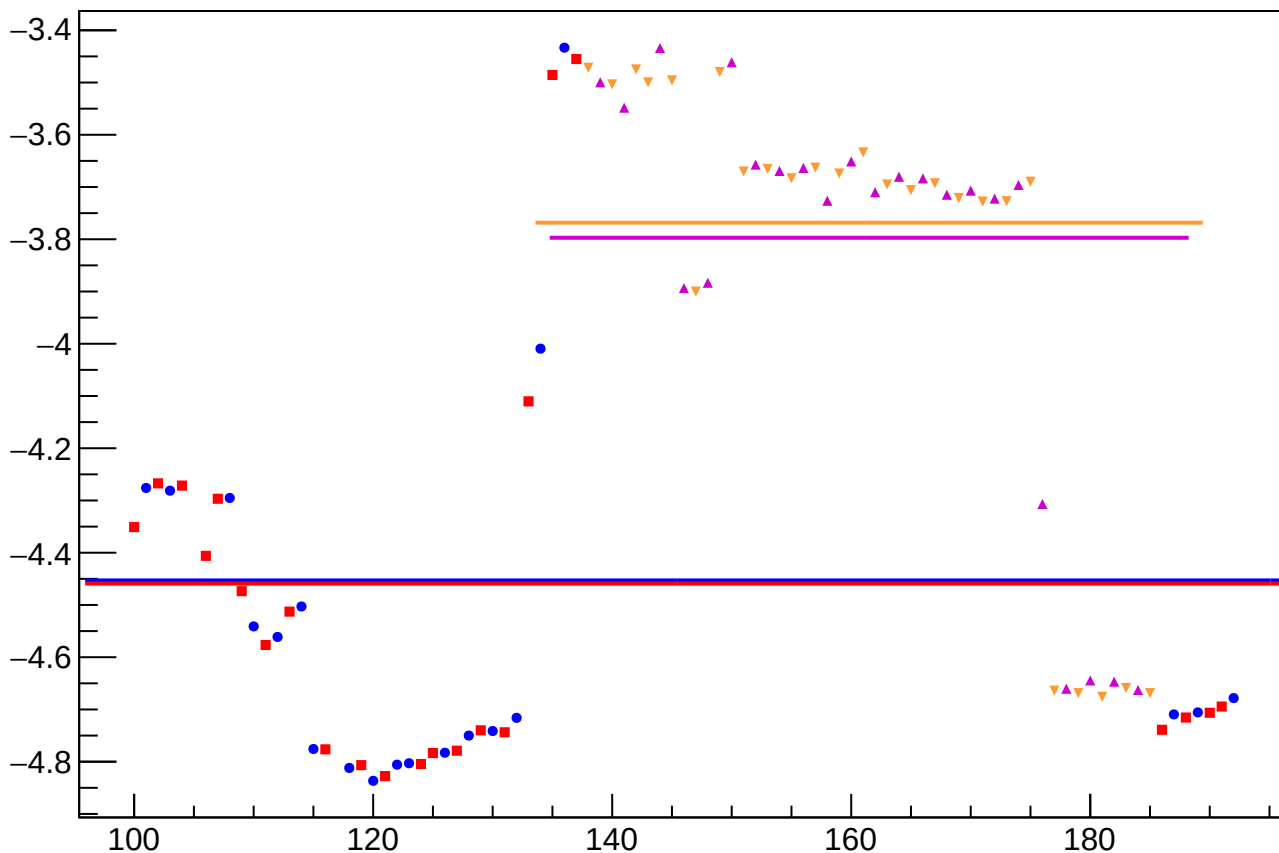
Right: 0.002+/-0.000 χ^2/NDF : 2451159.8/42

In: 0.002+/-0.000 χ^2/NDF : 2020155.2/42

Out: 0.002+/-0.000 χ^2/NDF : 2343882.0/47

All: 0.002+/-0.000 χ^2/NDF : 4368118.0/90

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.453+/-0.000 χ^2/NDF : 400916719127.5/19

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.459+/-0.000 χ^2/NDF : 338711176878.9/22

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

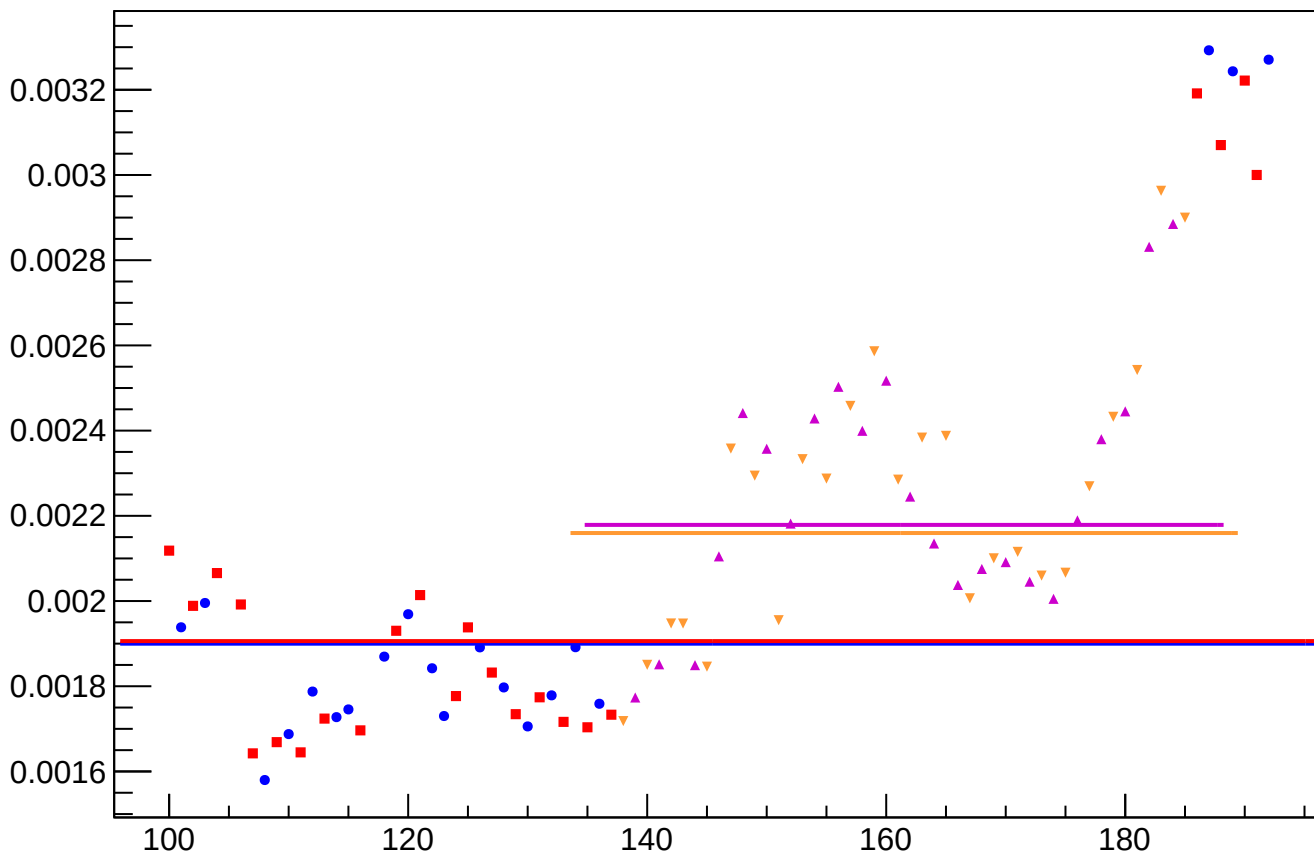
Right: -4.456+/-0.000 χ^2/NDF : 739668027072.0/42

In: -4.043+/-0.000 χ^2/NDF : 1418935199079.2/42

Out: -4.029+/-0.000 χ^2/NDF : 1542623720813.8/47

All: -4.036+/-0.000 χ^2/NDF : 2962154247582

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 606430.4/19

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 688376.3/22

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

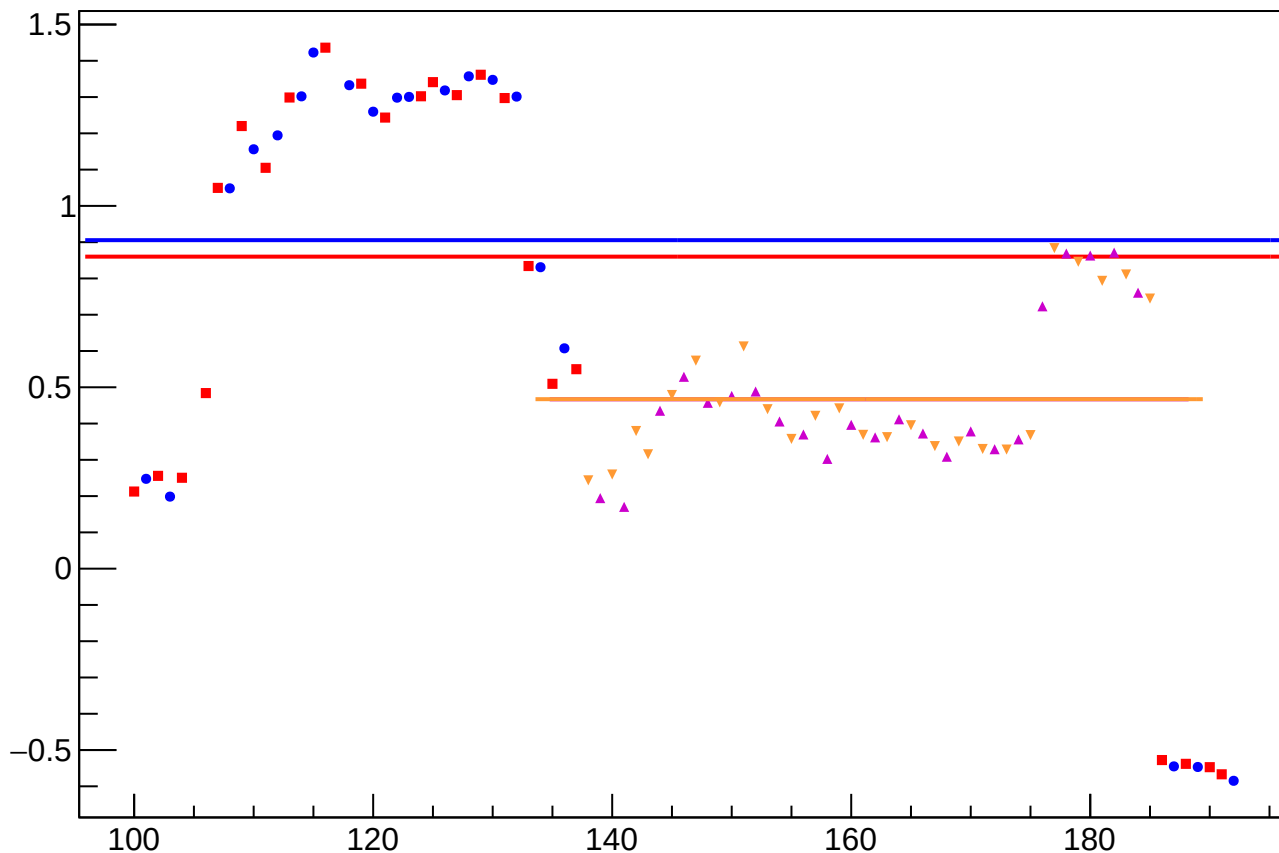
Right: 0.002+/-0.000 χ^2/NDF : 1294887.6/42

In: 0.002+/-0.000 χ^2/NDF :1276797.5/42

Out: 0.002+/-0.000 χ^2/NDF :1421488.7/47

All: 0.002+/-0.000 χ^2/NDF : 2698904.8/90

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.906 $\pm$ 0.000 χ^2 /NDF: 52266050507.9/19

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.860 $\pm$ 0.000 χ^2 /NDF: 60295387616.5/22

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

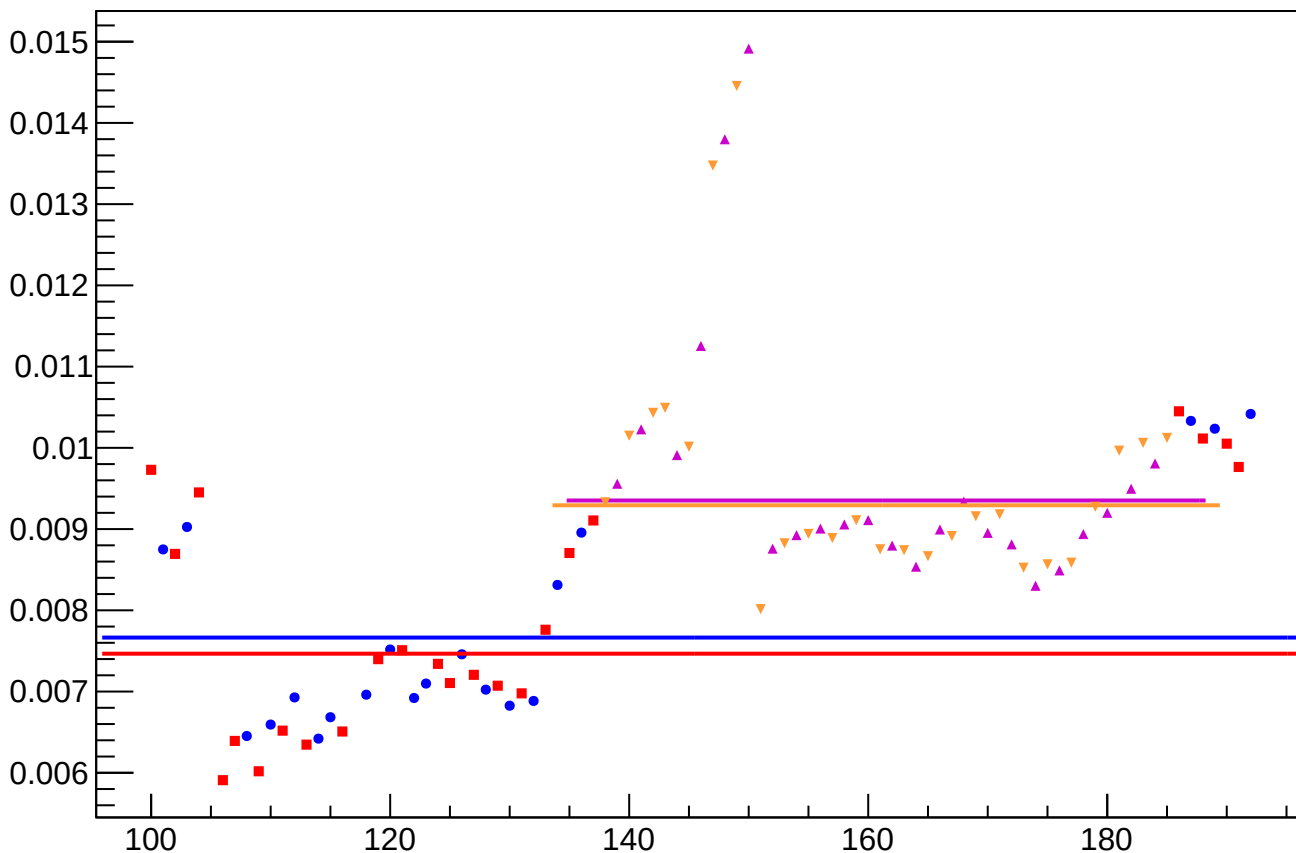
Right: 0.881 $\pm$ 0.000 χ^2 /NDF: 112711200418.8/42

In: 0.648 $\pm$ 0.000 χ^2 /NDF: 75713268656.8/42

Out: 0.635 $\pm$ 0.000 χ^2 /NDF: 81425890422.2/47

All: 0.641 $\pm$ 0.000 χ^2 /NDF: 157167155180.4

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 411822.5/19

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 550774.2/22

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

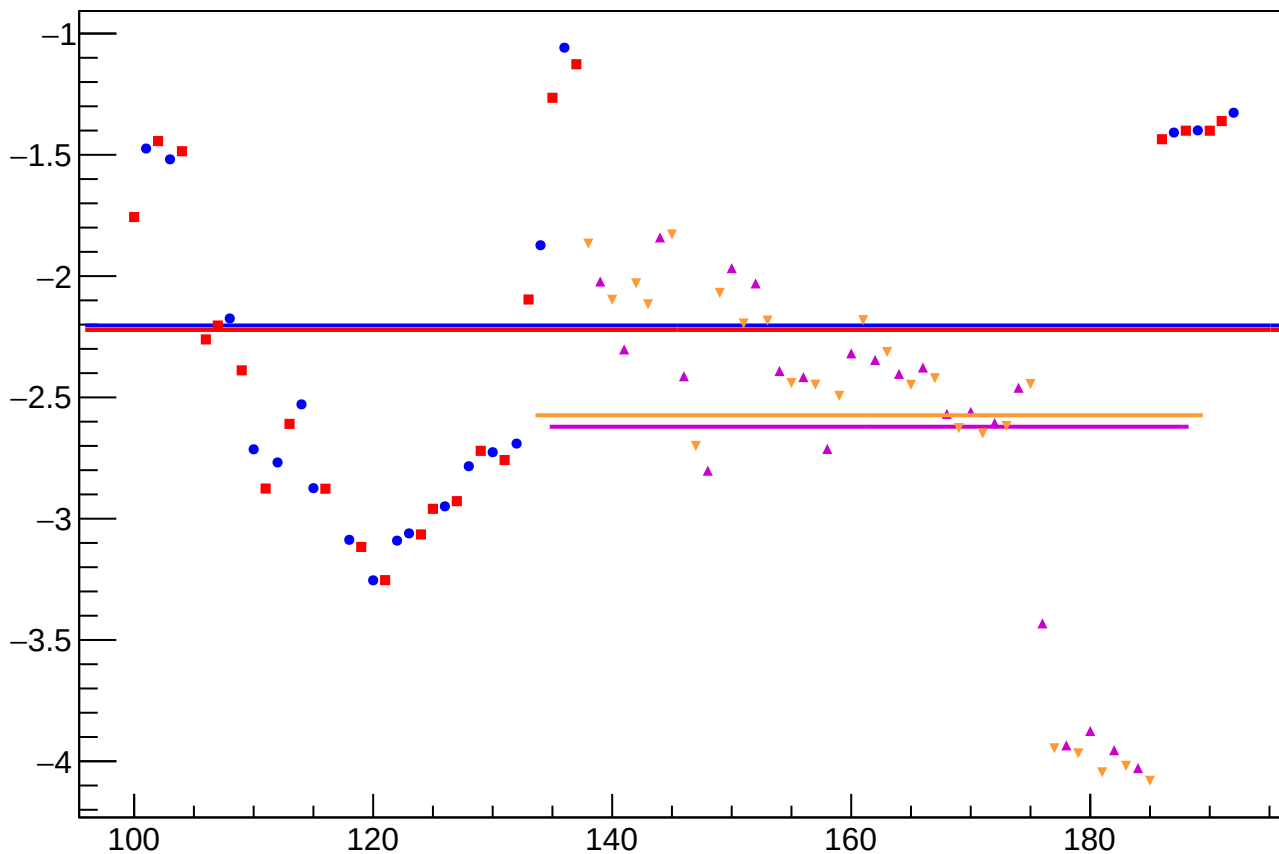
Right: 0.008+/-0.000 χ^2/NDF : 968318.2/42

In: 0.009+/-0.000 χ^2/NDF :1425290.4/42

Out: 0.009+/-0.000 χ^2/NDF :1674272.0/47

All: 0.009+/-0.000 χ^2/NDF : 3106696.4/90

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.204+/-0.000 χ^2/NDF : 86746082050.4/19

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -2.222+/-0.000 χ^2/NDF : 80329045058.6/22

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

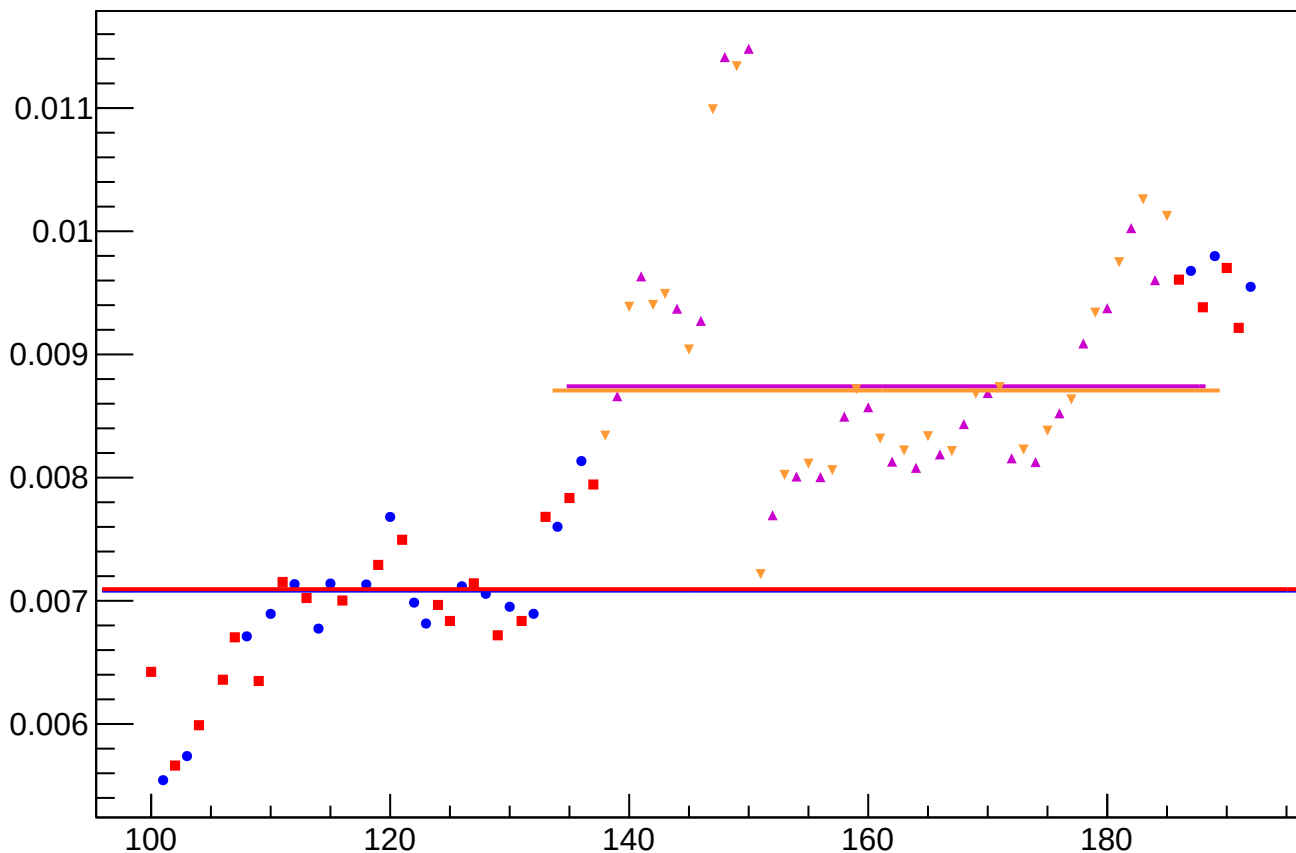
Right: -2.213+/-0.000 χ^2/NDF : 167103273753.8/42

In: -2.447+/-0.000 χ^2/NDF : 183864194903.5/42

Out: -2.426+/-0.000 χ^2/NDF : 191990821301.6/47

All: -2.436+/-0.000 χ^2/NDF : 375948184646.5

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 404682.8/19

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 389733.9/22

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

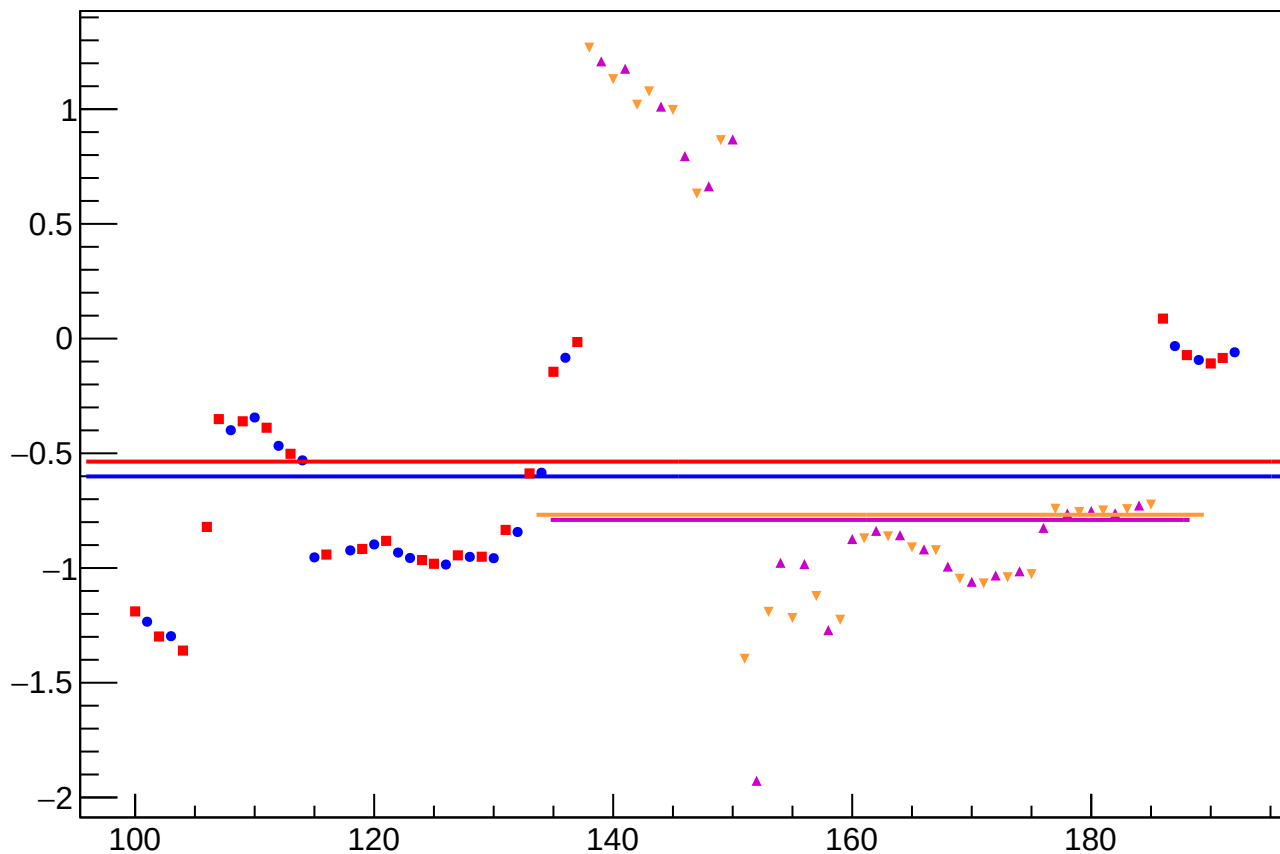
Right: 0.007+/-0.000 χ^2/NDF : 794439.9/42

In: 0.008+/-0.000 χ^2/NDF :1271804.7/42

Out: 0.008+/-0.000 χ^2/NDF :1283986.9/47

All: 0.008+/-0.000 χ^2/NDF : 2555997.9/90

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.601 ± 0.000 $\chi^2/\text{NDF}: 16574858828.7/19$

Left Out: -0.768 ± 0.000 $\chi^2/\text{NDF}: 120774855982.9/24$

Right Out: -0.536 ± 0.000 $\chi^2/\text{NDF}: 19444142943.2/22$

Left In: -0.790 ± 0.000 $\chi^2/\text{NDF}: 123452478408.2/22$

Left: -0.779 ± 0.000 $\chi^2/\text{NDF}: 244297726249.8/47$

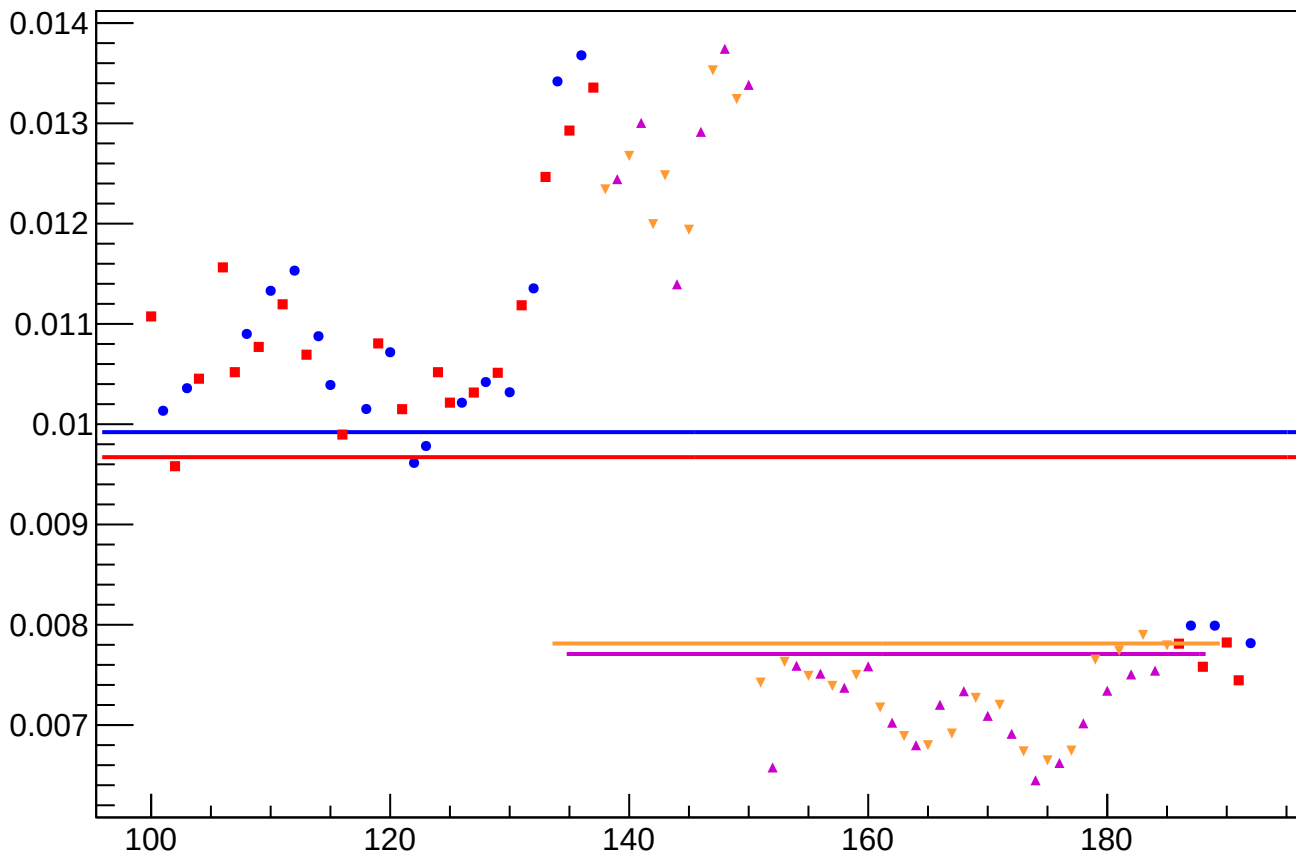
Right: -0.566 ± 0.000 $\chi^2/\text{NDF}: 36197014051.2/42$

In: -0.747 ± 0.000 $\chi^2/\text{NDF}: 142258693895.1/42$

Out: -0.711 ± 0.000 $\chi^2/\text{NDF}: 143914265457.0/47$

All: -0.729 ± 0.000 $\chi^2/\text{NDF}: 286406912708.7$

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 412402.6/19

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 488160.4/22

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

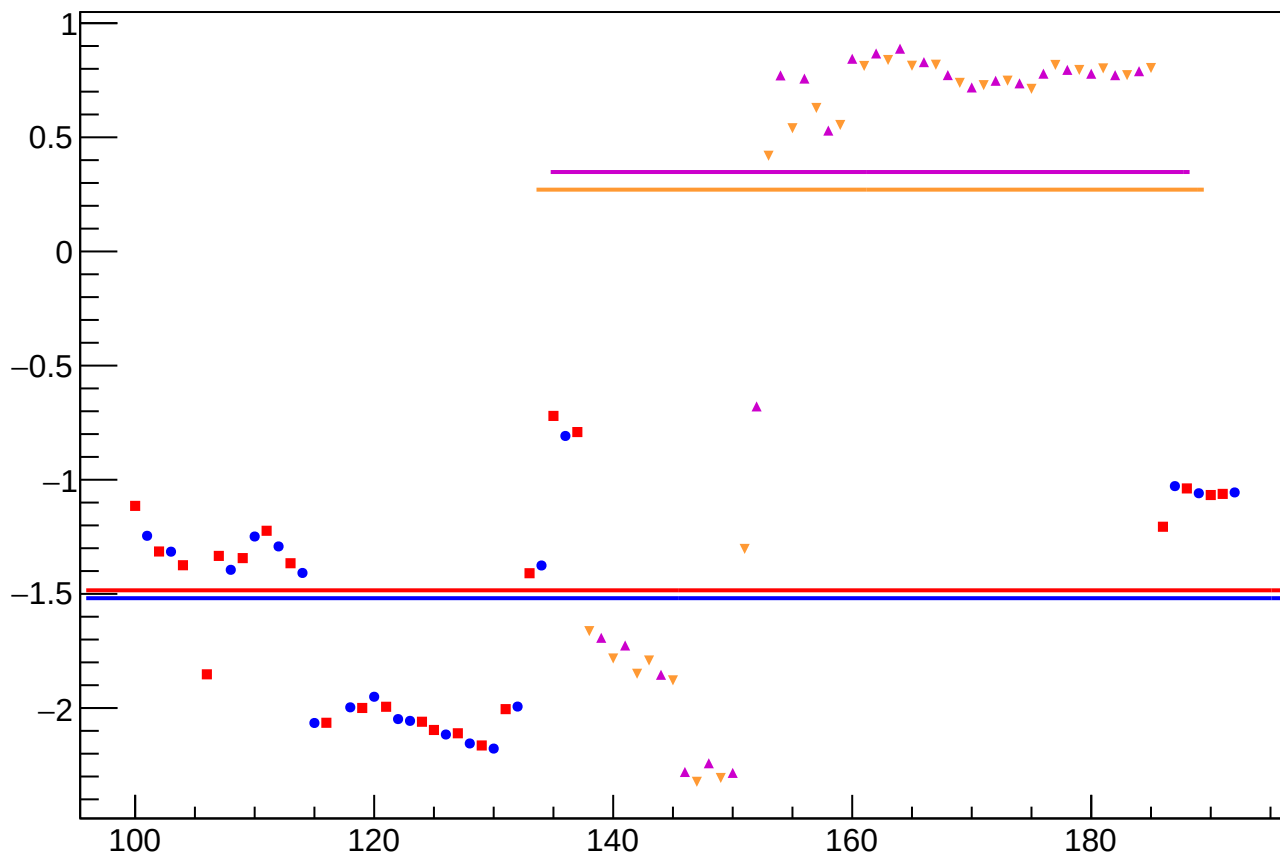
Right: 0.010+/-0.000 χ^2/NDF : 905878.3/42

In: 0.008+/-0.000 χ^2/NDF :2766549.1/42

Out: 0.008+/-0.000 χ^2/NDF :2669875.7/47

All: 0.008+/-0.000 χ^2/NDF : 5437497.2/90

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.519 ± 0.000 $\chi^2/\text{NDF}: 168583980188.5/19$

Left Out: 0.271 ± 0.000 $\chi^2/\text{NDF}: 2583233987355.9/24$

Right Out: -1.484 ± 0.000 $\chi^2/\text{NDF}: 153249098944.2/22$

Left In: 0.348 ± 0.000 $\chi^2/\text{NDF}: 2274004426513.8/22$

Left: 0.308 ± 0.000 $\chi^2/\text{NDF}: 4864843200778.2/47$

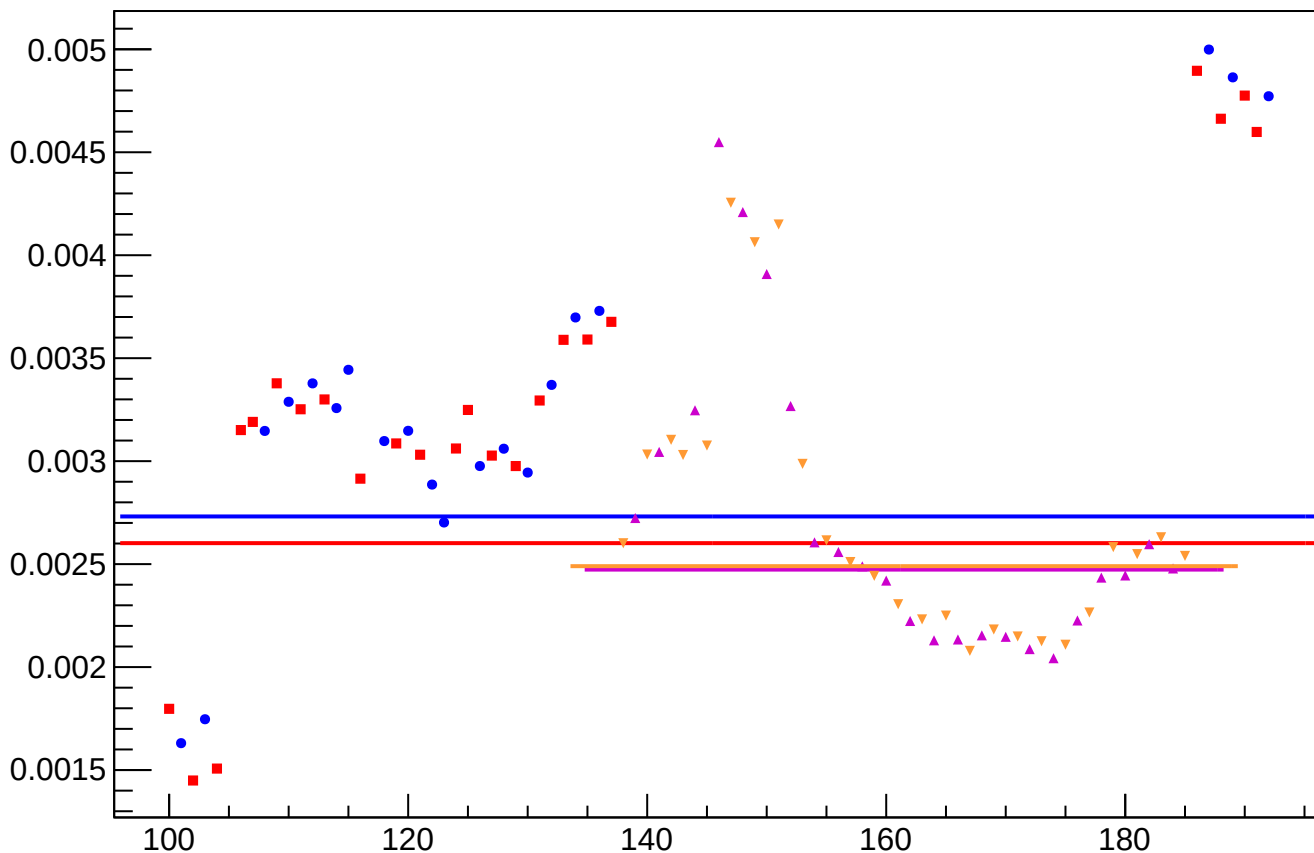
Right: -1.500 ± 0.000 $\chi^2/\text{NDF}: 322414089651.4/42$

In: -0.154 ± 0.000 $\chi^2/\text{NDF}: 4770168849410.9/42$

Out: -0.230 ± 0.000 $\chi^2/\text{NDF}: 5041888921475.3/47$

All: -0.194 ± 0.000 $\chi^2/\text{NDF}: 9822231356748$

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1613873.7/19

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 2289177.8/22

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

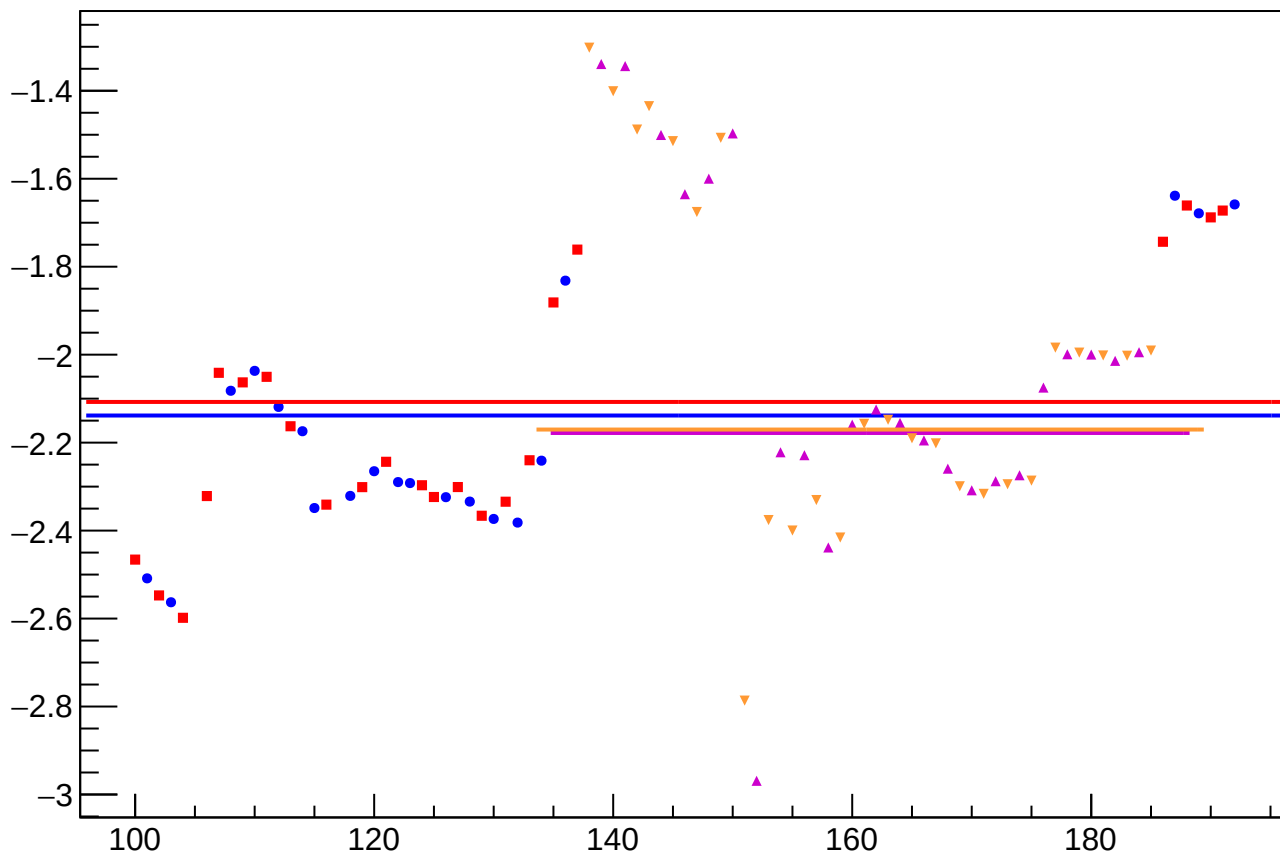
Right: 0.003+/-0.000 χ^2/NDF : 3919446.6/42

In: 0.003+/-0.000 χ^2/NDF :2838100.2/42

Out: 0.003+/-0.000 χ^2/NDF :3378176.8/47

All: 0.003+/-0.000 χ^2/NDF : 6217816.1/90

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.138+/-0.000 χ^2/NDF : 20905126031.8/19

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -2.107+/-0.000 χ^2/NDF : 23506594289.8/22

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

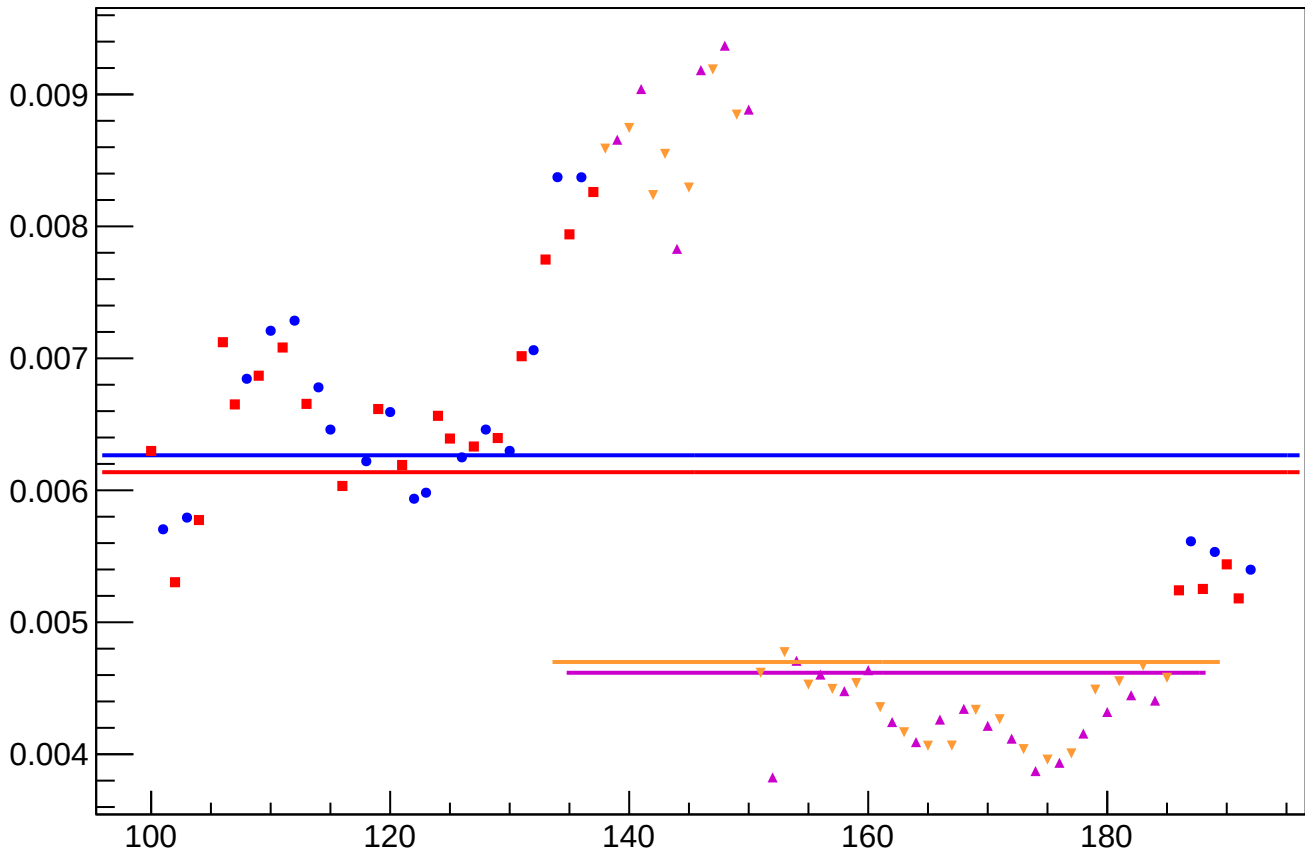
Right: -2.122+/-0.000 χ^2/NDF : 44513287303.1/42

In: -2.169+/-0.000 χ^2/NDF : 94555779079.5/42

Out: -2.156+/-0.000 χ^2/NDF : 84160572817.6/47

All: -2.162+/-0.000 χ^2/NDF : 178806813320.2

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 262928.3/19

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 304885.5/22

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

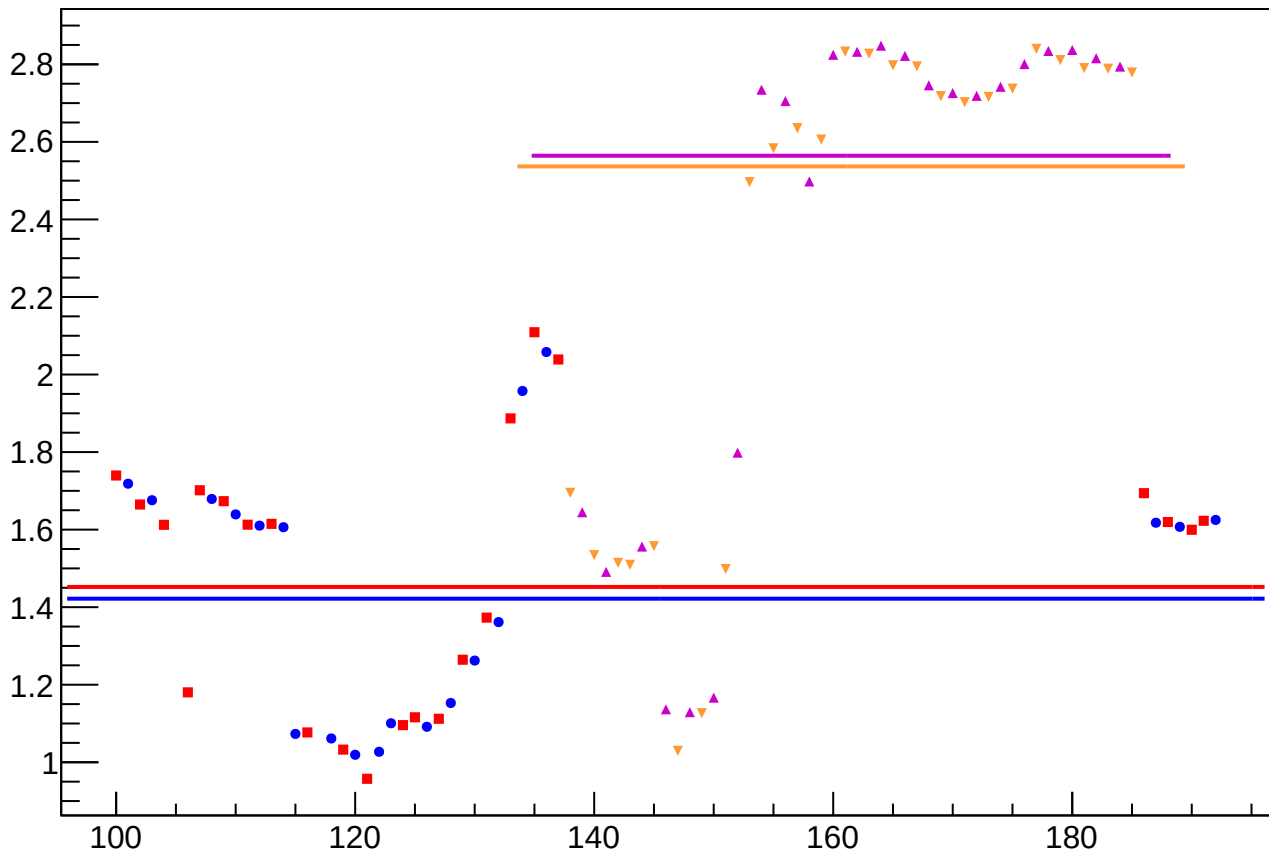
Right: 0.006+/-0.000 χ^2/NDF : 571309.6/42

In: 0.005+/-0.000 χ^2/NDF :3487300.1/42

Out: 0.005+/-0.000 χ^2/NDF :3345783.7/47

All: 0.005+/-0.000 χ^2/NDF : 6836384.1/90

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000 χ^2/NDF : 173947833385.9/19

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.452+/-0.000 χ^2/NDF : 175377272080.2/22

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

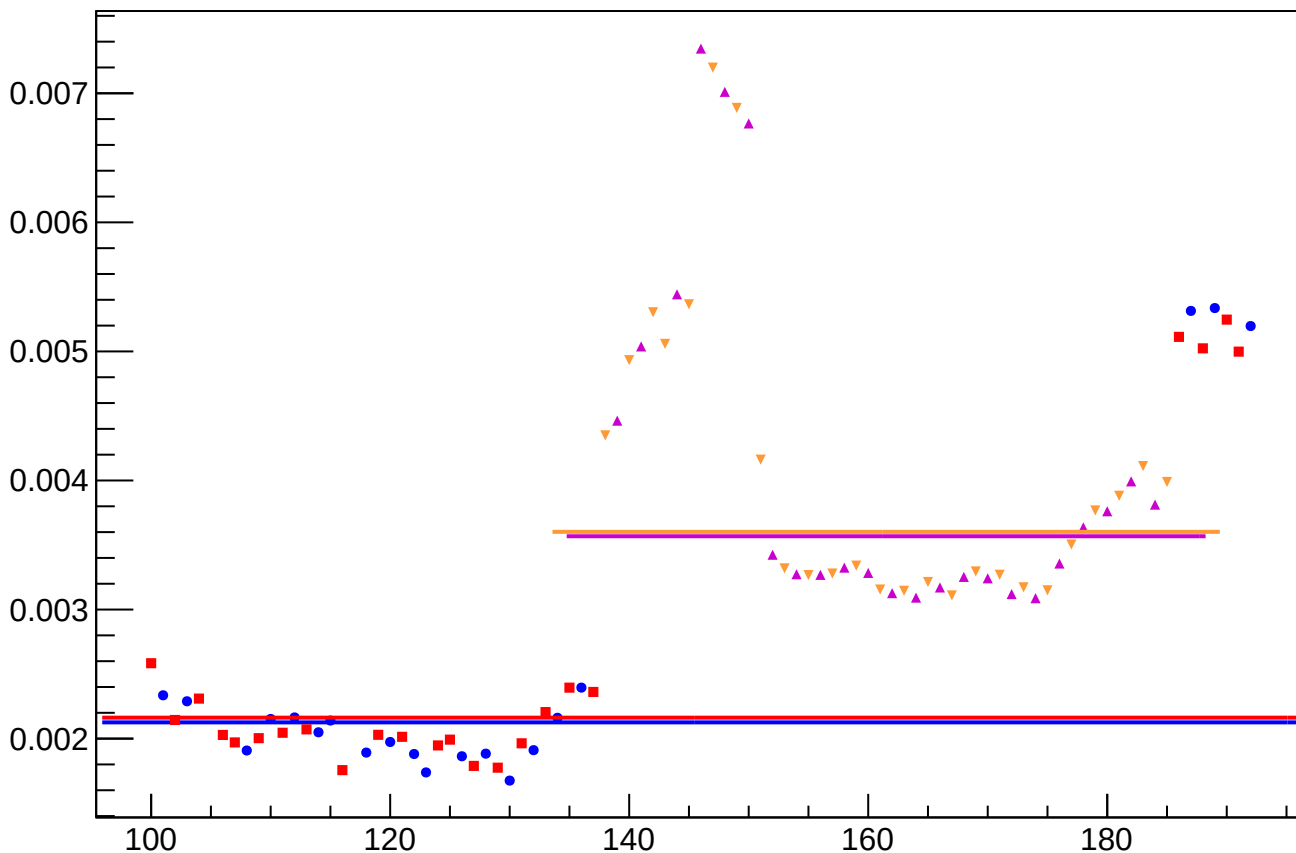
Right: 1.437+/-0.000 χ^2/NDF : 350064838201.0/42

In: 1.922+/-0.000 χ^2/NDF : 1333282687840.9/42

Out: 1.929+/-0.000 χ^2/NDF : 1294536308916.8/47

All: 1.926+/-0.000 χ^2/NDF : 2627873373137.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1261449.1/19

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 1389244.7/22

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

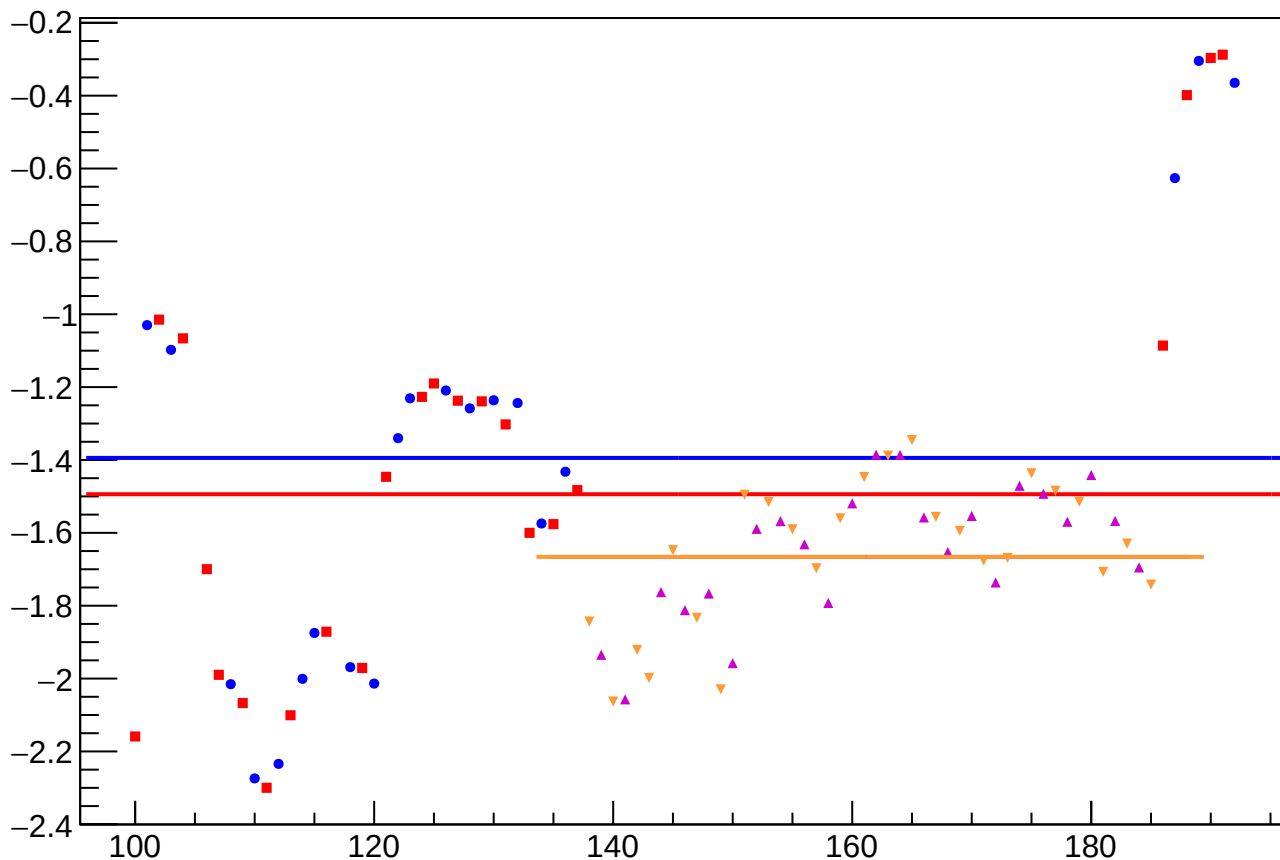
Right: 0.002+/-0.000 χ^2/NDF : 2652832.2/42

In: 0.003+/-0.000 χ^2/NDF :5689609.7/42

Out: 0.003+/-0.000 χ^2/NDF :5795270.0/47

All: 0.003+/-0.000 χ^2/NDF : 11488822.2/90

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.394 ± 0.000 χ^2/NDF : 38491765637.6/19

Left Out: -1.666 ± 0.000 χ^2/NDF : 18325162131.2/24

Right Out: -1.494 ± 0.000 χ^2/NDF : 50288101542.2/22

Left In: -1.666 ± 0.000 χ^2/NDF : 14292570816.9/22

Left: -1.666 ± 0.000 χ^2/NDF : 32617732948.1/47

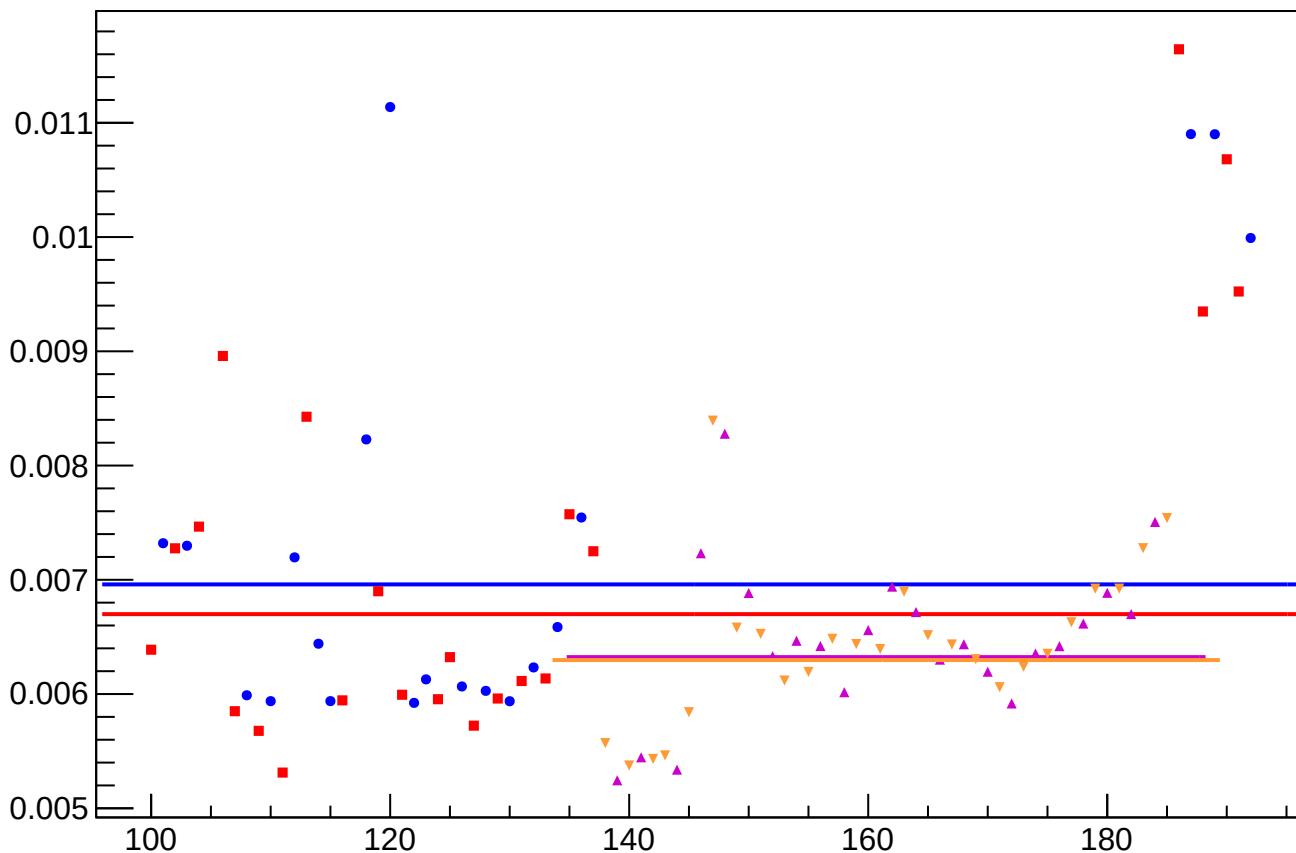
Right: -1.449 ± 0.000 χ^2/NDF : 89601801696.0/42

In: -1.593 ± 0.000 χ^2/NDF : 60977384132.6/42

Out: -1.616 ± 0.000 χ^2/NDF : 72417645458.7/47

All: -1.605 ± 0.000 χ^2/NDF : 133556371477.6

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 578135.1/19

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 665901.9/22

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

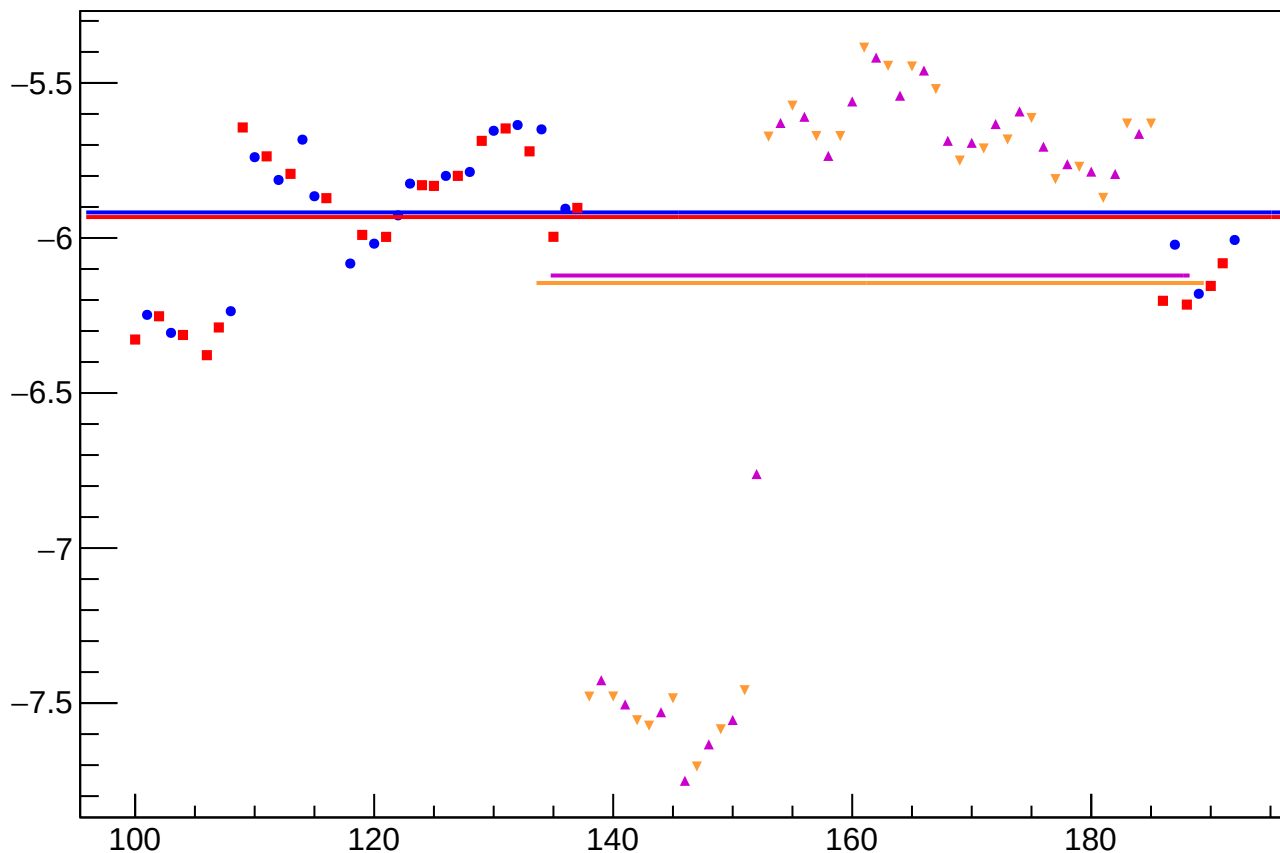
Right: 0.007+/-0.000 χ^2/NDF : 1255252.9/42

In: 0.006+/-0.000 χ^2/NDF : 998873.0/42

Out: 0.006+/-0.000 χ^2/NDF : 1018184.5/47

All: 0.006+/-0.000 χ^2/NDF : 2020927.7/90

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.918+/-0.000 χ^2/NDF : 11395411220.6/19

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.933+/-0.000 χ^2/NDF : 13605947036.7/22

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

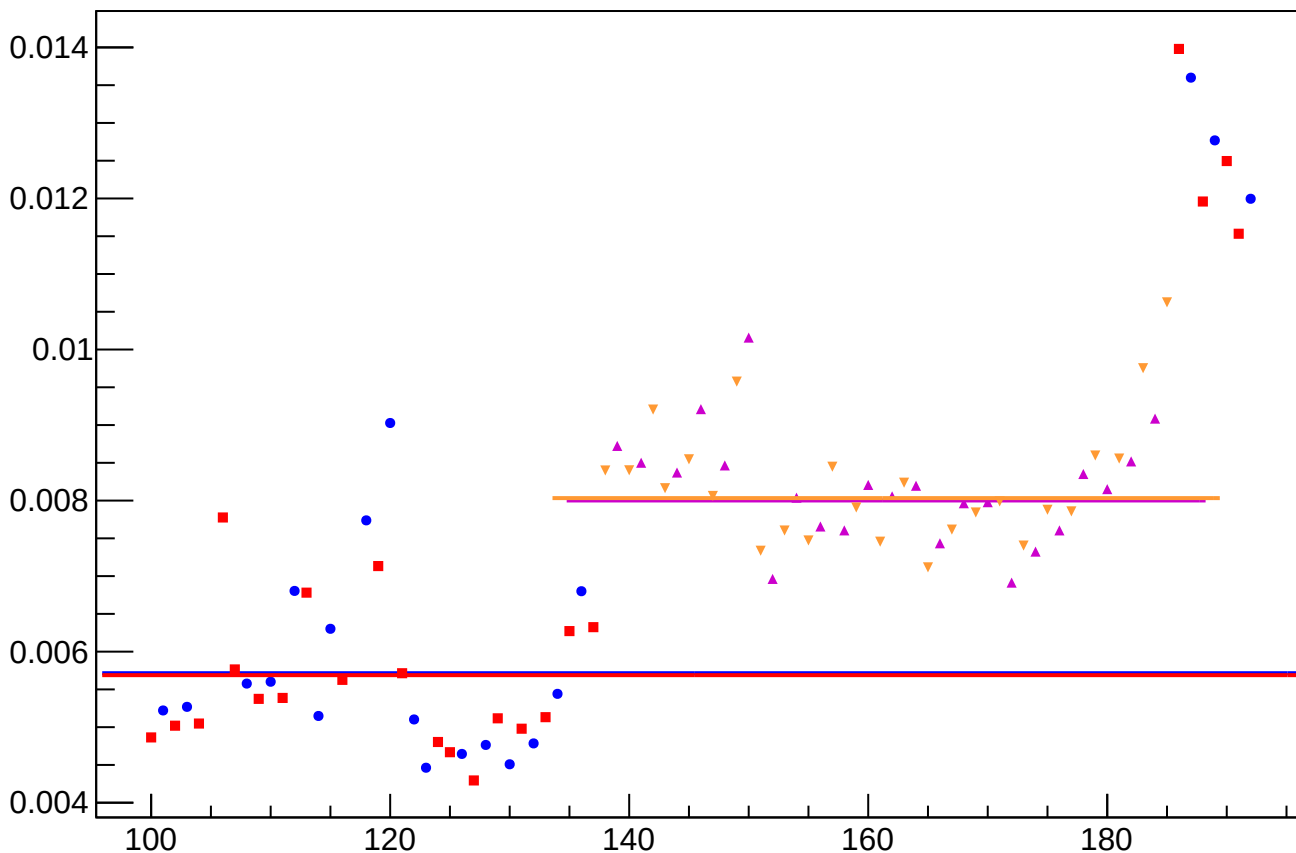
Right: -5.925+/-0.000 χ^2/NDF : 25026357353.7/42

In: -6.027+/-0.000 χ^2/NDF : 174425540773.3/42

Out: -6.044+/-0.000 χ^2/NDF : 204512486268.6/47

All: -6.036+/-0.000 χ^2/NDF : 379003594845.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1257579.6/19

Left Out: 0.008+/-0.000 χ^2/NDF : 205762.2/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1344788.7/22

Left In: 0.008+/-0.000 χ^2/NDF : 220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

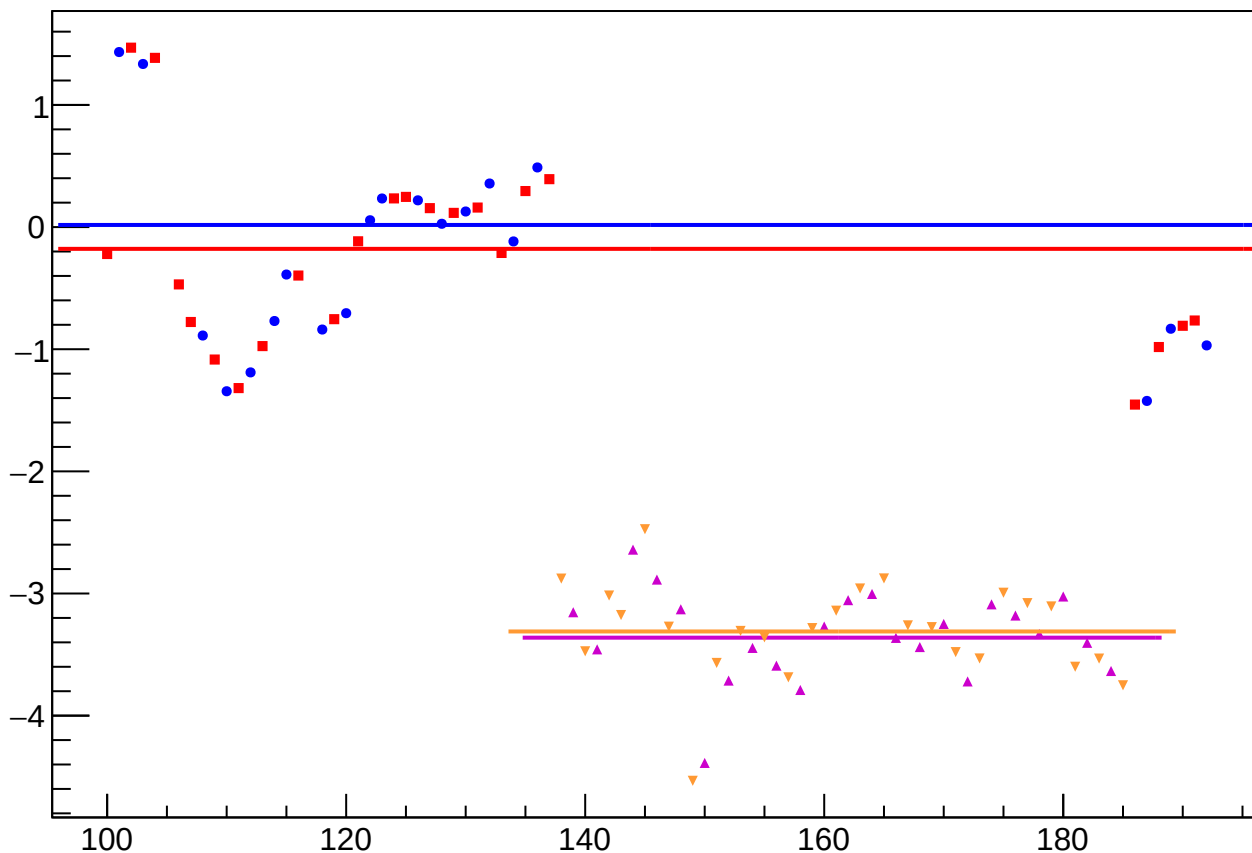
Right: 0.006+/-0.000 χ^2/NDF : 2602515.6/42

In: 0.007+/-0.000 χ^2/NDF : 2669395.2/42

Out: 0.007+/-0.000 χ^2/NDF : 2898140.4/47

All: 0.007+/-0.000 χ^2/NDF : 5567993.4/90

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 21794442260.0/19

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.178+/-0.000 χ^2/NDF : 25993118714.9/22

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

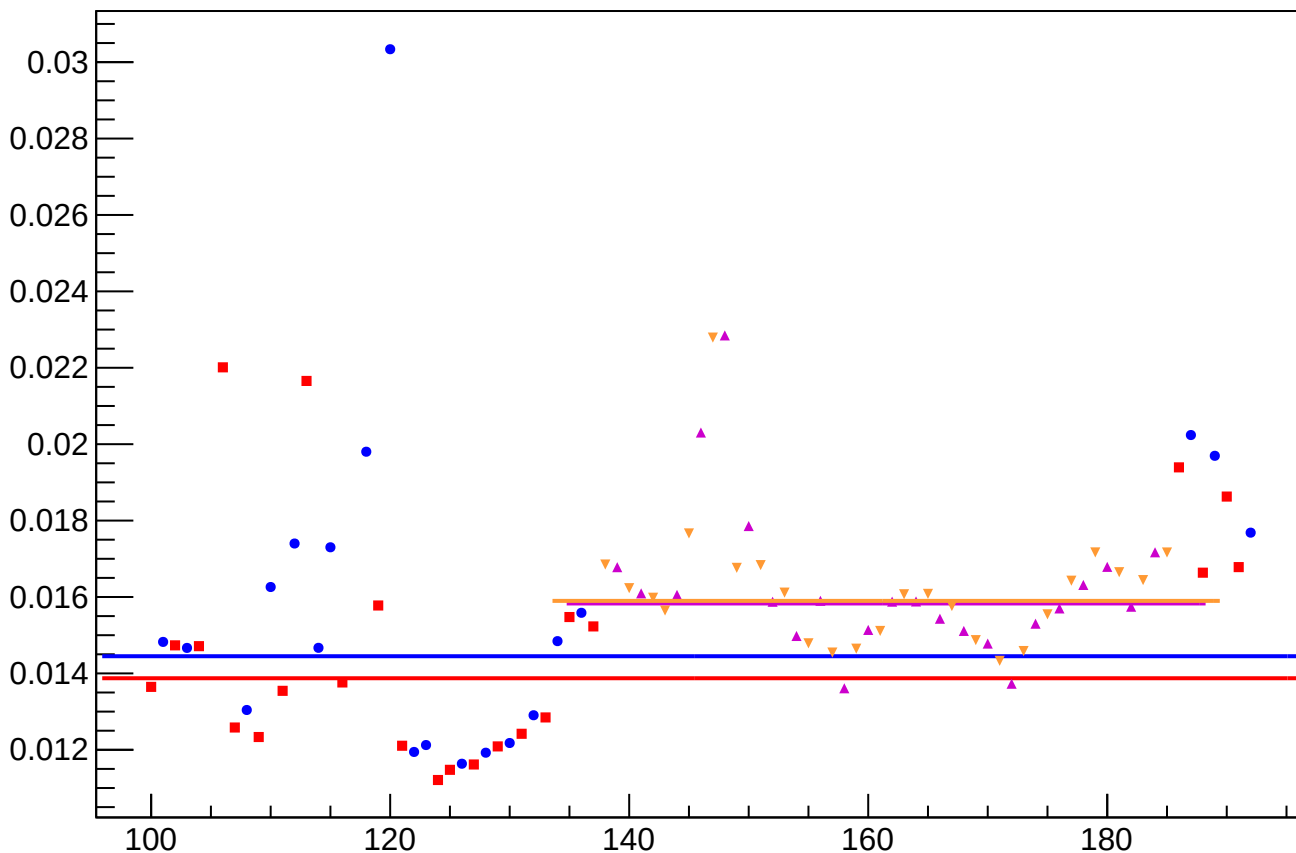
Right: -0.090+/-0.000 χ^2/NDF : 48518526664.2/42

In: -2.197+/-0.000 χ^2/NDF : 290796492730.8/42

Out: -2.132+/-0.000 χ^2/NDF : 293629825936.3/47

All: -2.163+/-0.000 χ^2/NDF : 584649293368.6

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 565129.2/19

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.014+/-0.000 χ^2/NDF : 477860.6/22

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

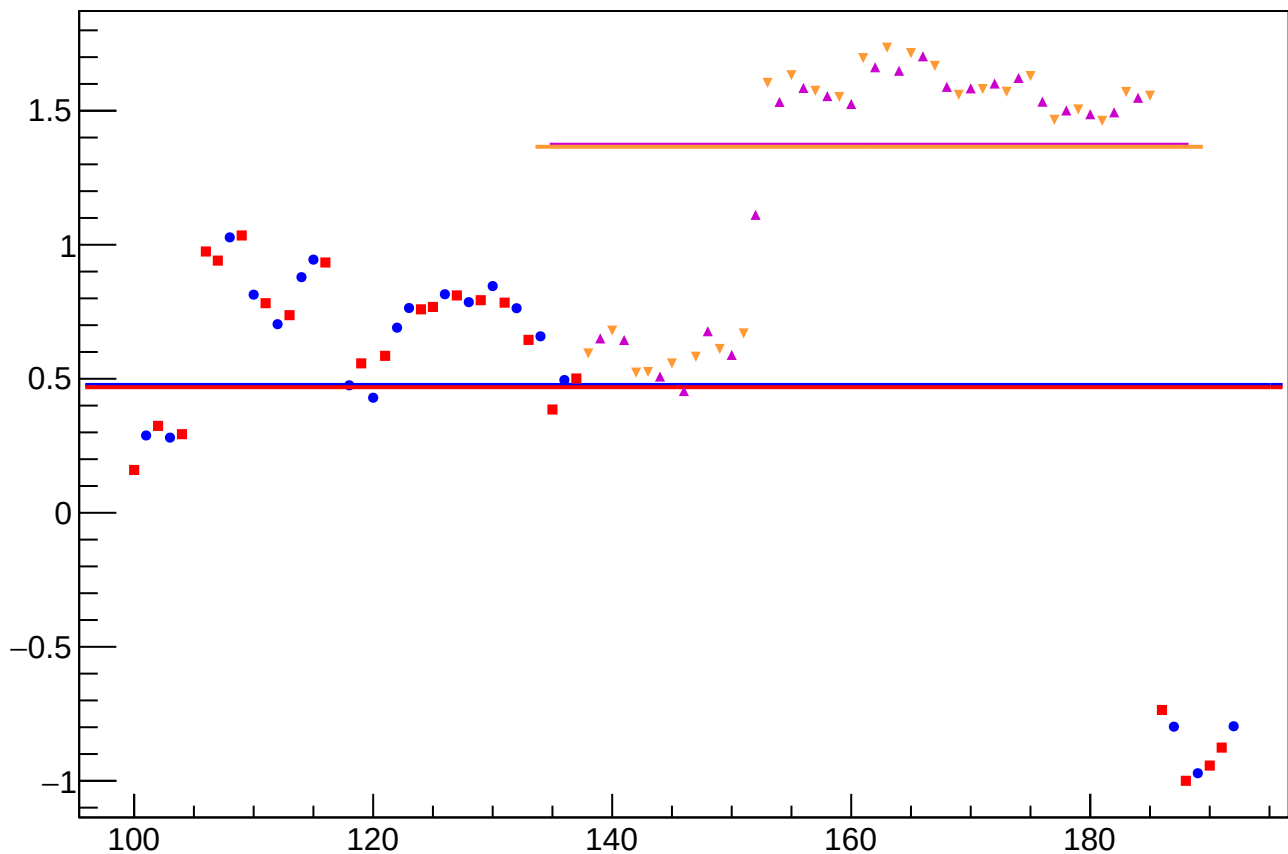
Right: 0.014+/-0.000 χ^2/NDF : 1055675.2/42

In: 0.015+/-0.000 χ^2/NDF :991804.1/42

Out: 0.015+/-0.000 χ^2/NDF :945647.5/47

All: 0.015+/-0.000 χ^2/NDF : 1942520.1/90

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.477+/-0.000

χ^2/NDF : 25054763984.8/19

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

Right: 0.473+/-0.000 χ^2/NDF : 58177703683.4/42

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 1.196+/-0.000 χ^2/NDF : 156211124389.1/42

Right Out: 0.469+/-0.000

χ^2/NDF : 33118883539.9/22

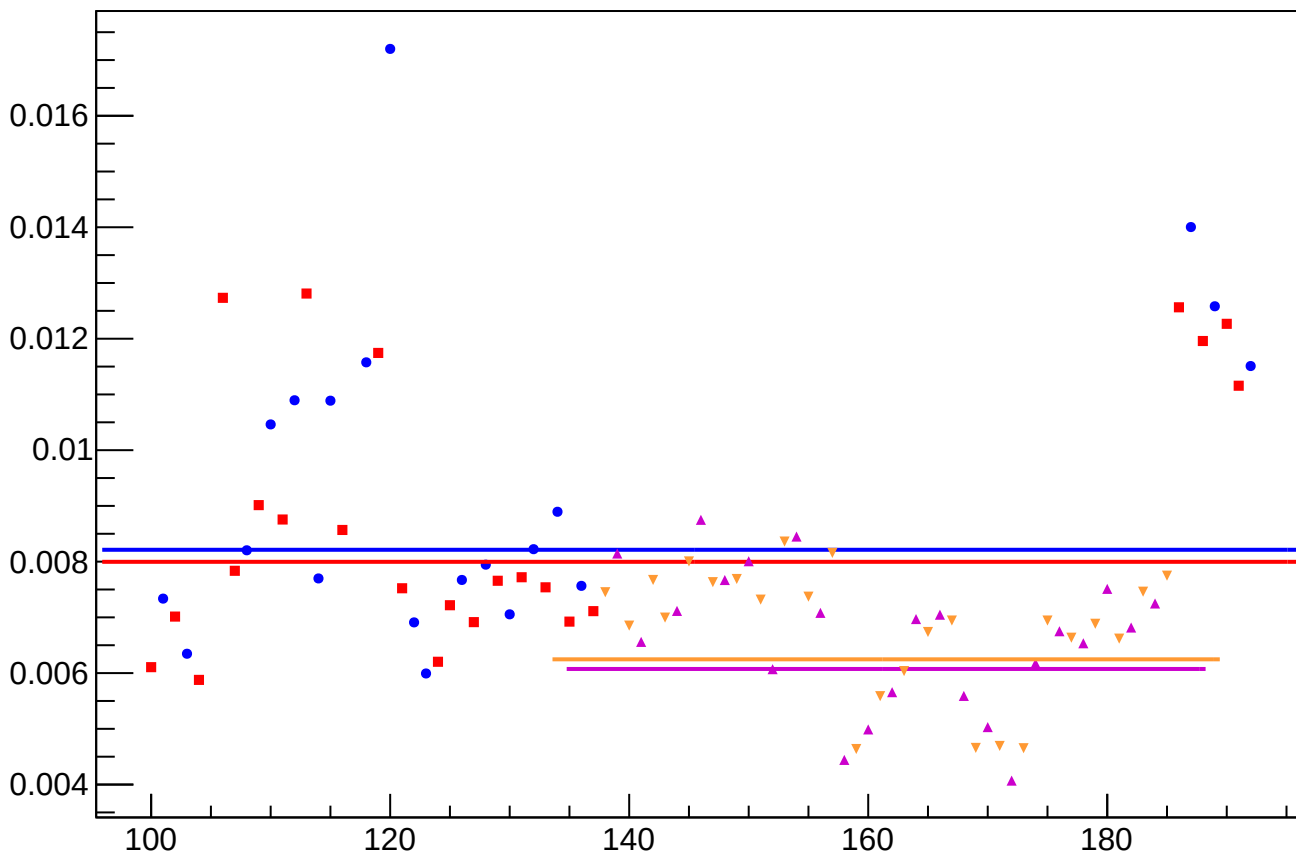
Out: 1.167+/-0.000 χ^2/NDF : 183680974257.6/47

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.181+/-0.000 χ^2/NDF : 340121520959.8

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 796526.6/19

Left Out: 0.006+/-0.000 χ^2/NDF :1330867.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 886103.8/22

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2775615.7/47

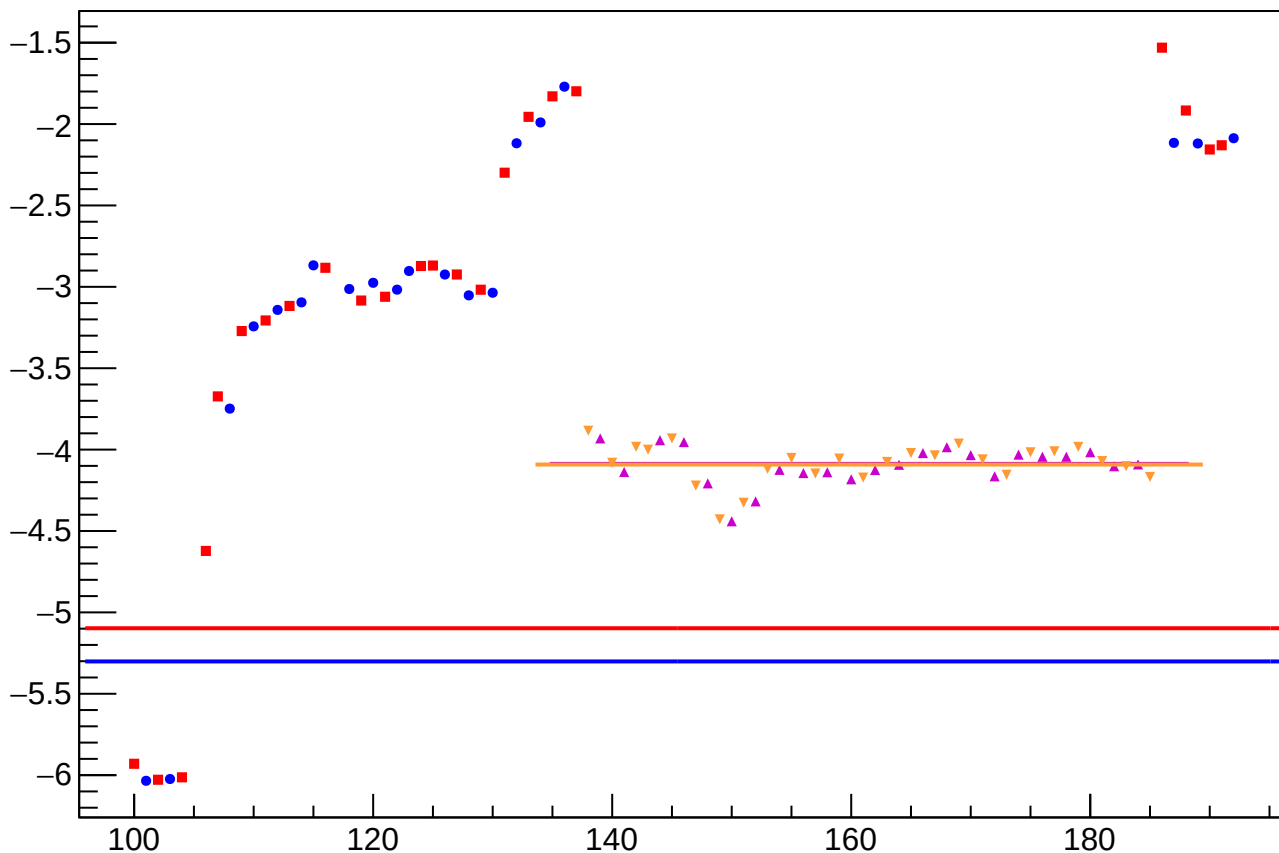
Right: 0.008+/-0.000 χ^2/NDF : 1687879.5/42

In: 0.006+/-0.000 χ^2/NDF :3000143.4/42

Out: 0.007+/-0.000 χ^2/NDF :2793881.7/47

All: 0.007+/-0.000 χ^2/NDF : 5804279.8/90

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.301+/-0.000

χ^2/NDF : 131097864217.2/19

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right Out: -5.097+/-0.000

χ^2/NDF : 140364070520.5/22

Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Right: -5.208+/-0.000

χ^2/NDF : 272543083164.8/42

In: -5.217+/-0.000

χ^2/NDF : 136976441297.5/42

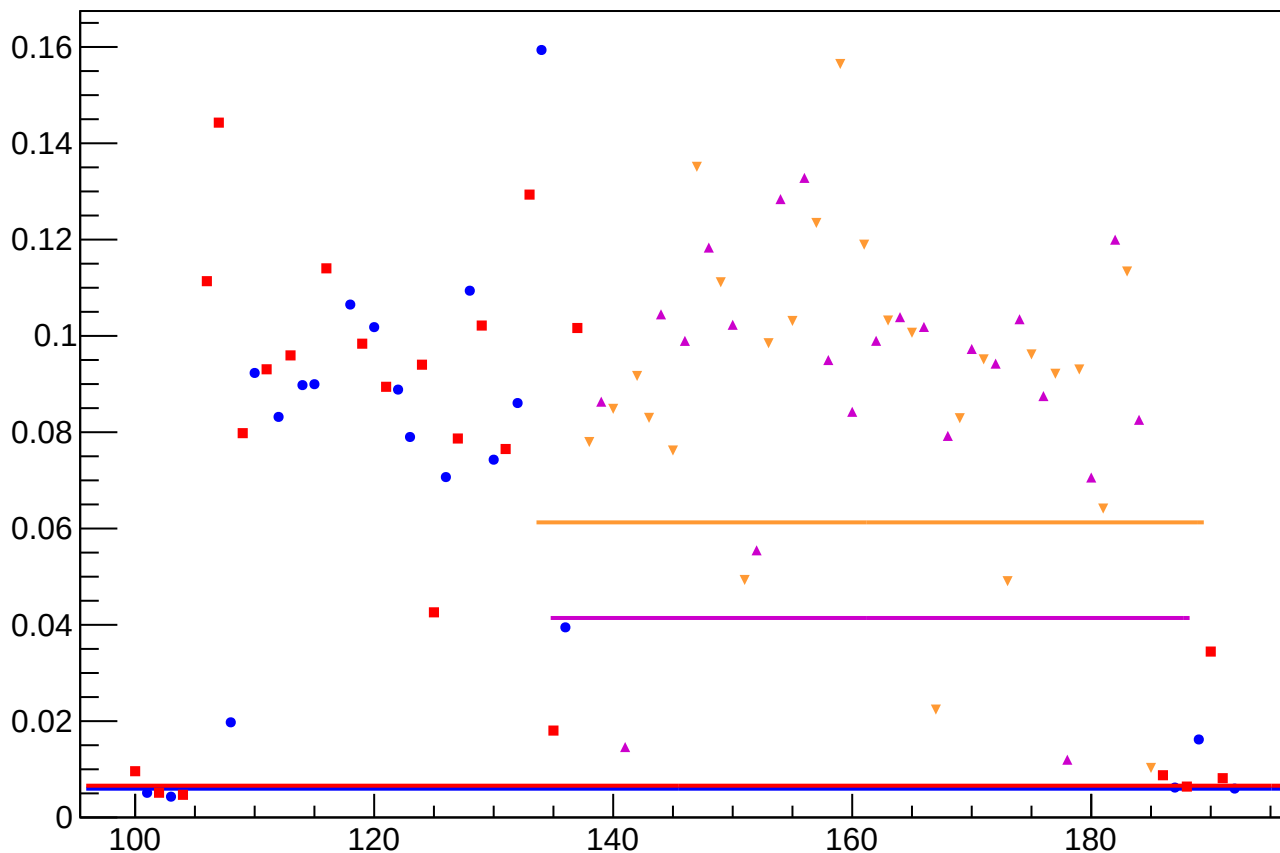
Out: -5.039+/-0.000

χ^2/NDF : 143216491917.8/47

All: -5.136+/-0.000

χ^2/NDF : 281070474397.7

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7989230.2/19

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 8669237.5/22

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

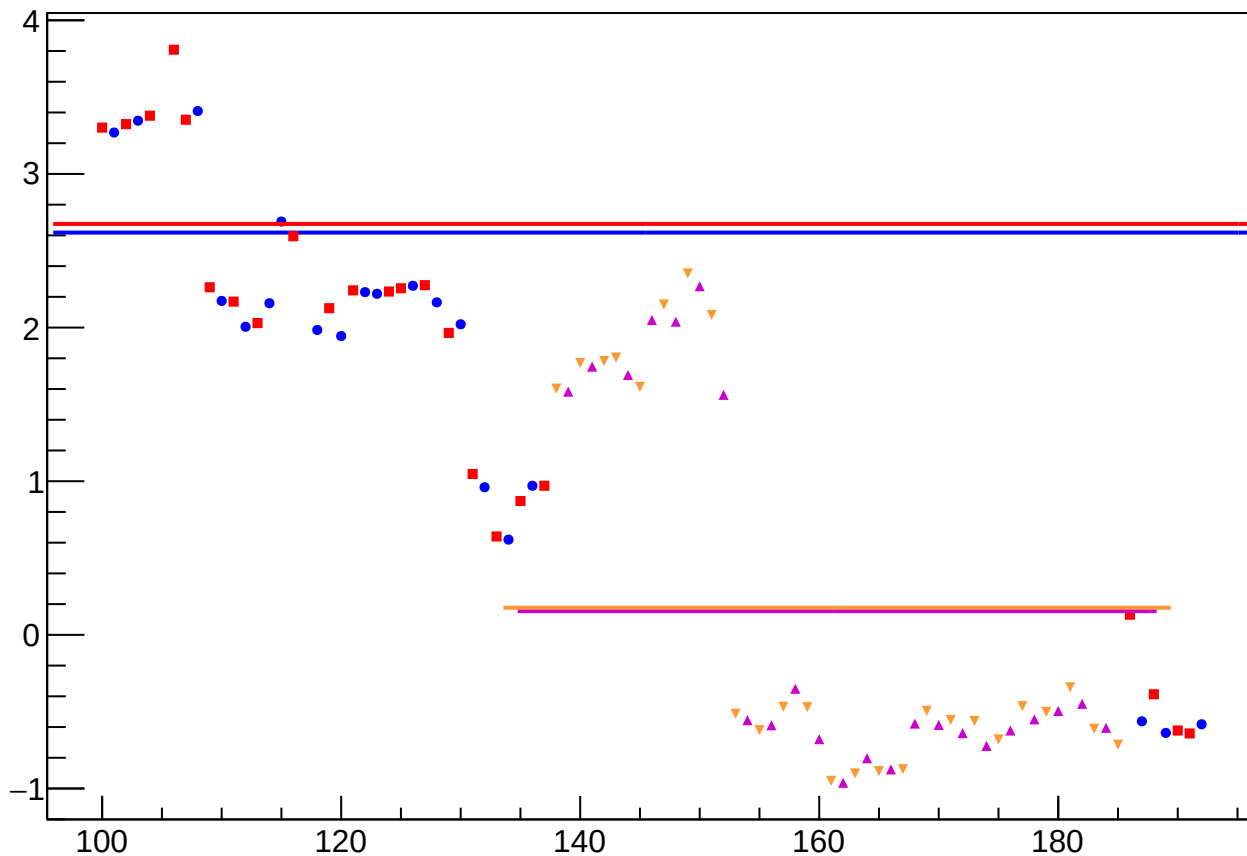
Right: 0.006+/-0.000 χ^2/NDF : 16678694.2/42

In: 0.008+/-0.000 χ^2/NDF : 31085546.2/42

Out: 0.010+/-0.000 χ^2/NDF : 33654699.3/47

All: 0.009+/-0.000 χ^2/NDF : 64838698.3/90

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 2.618 $\pm$ 0.000

χ^2 /NDF: 73785622868.1/19

Left Out: 0.177 $\pm$ 0.000

χ^2 /NDF: 3275313367.7/24

Right Out: 2.675 $\pm$ 0.000

χ^2 /NDF: 62661301476.7/22

Left In: 0.154 $\pm$ 0.000

χ^2 /NDF: 3163553595.0/22

Left: 0.165 $\pm$ 0.000

χ^2 /NDF: 6439465655.5/47

Right: 2.645 $\pm$ 0.000

χ^2 /NDF: 136499642145.0/42

In: 2.447 $\pm$ 0.000

χ^2 /NDF: 91519758389.9/42

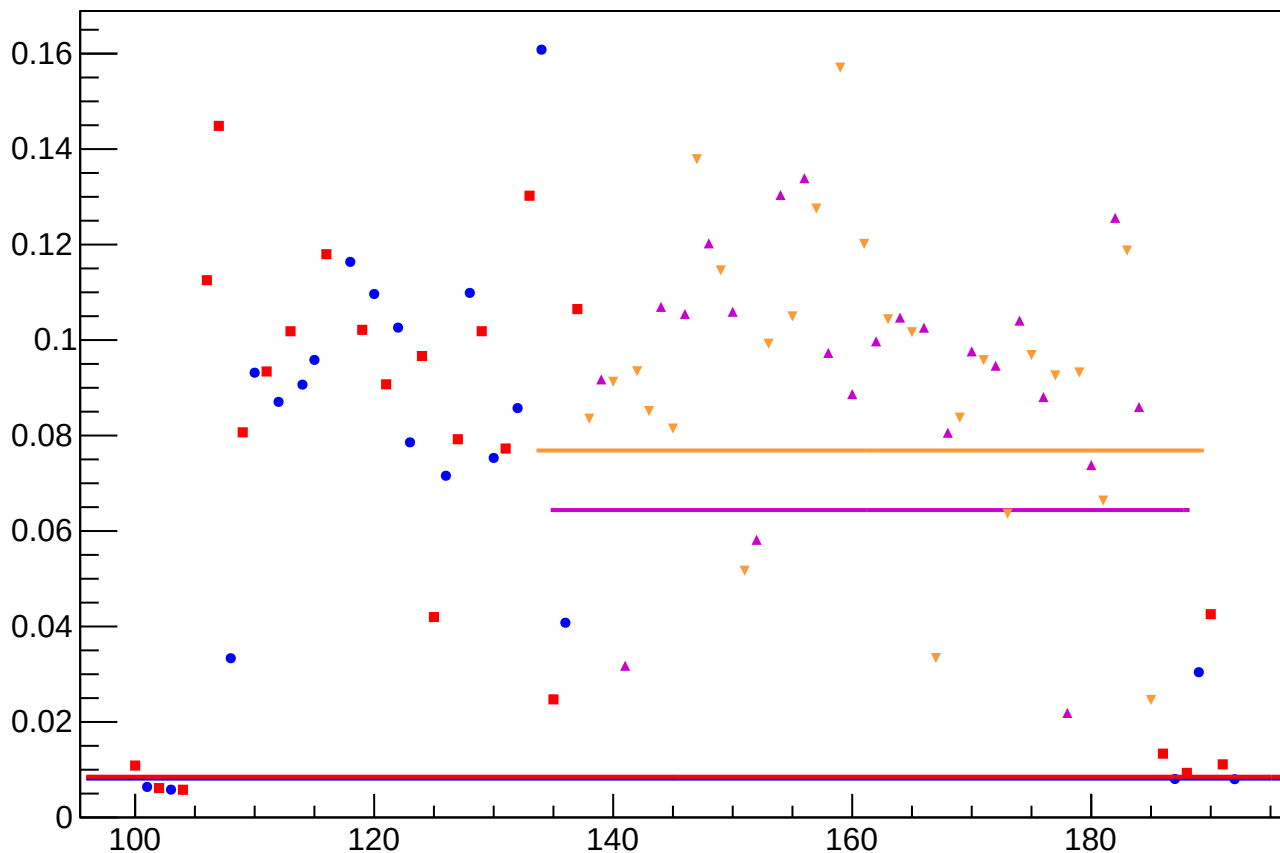
Out: 2.509 $\pm$ 0.000

χ^2 /NDF: 79144630834.1/47

All: 2.477 $\pm$ 0.000

χ^2 /NDF: 170732318780.5

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7891539.5/19

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF: 4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 8556397.9/22

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

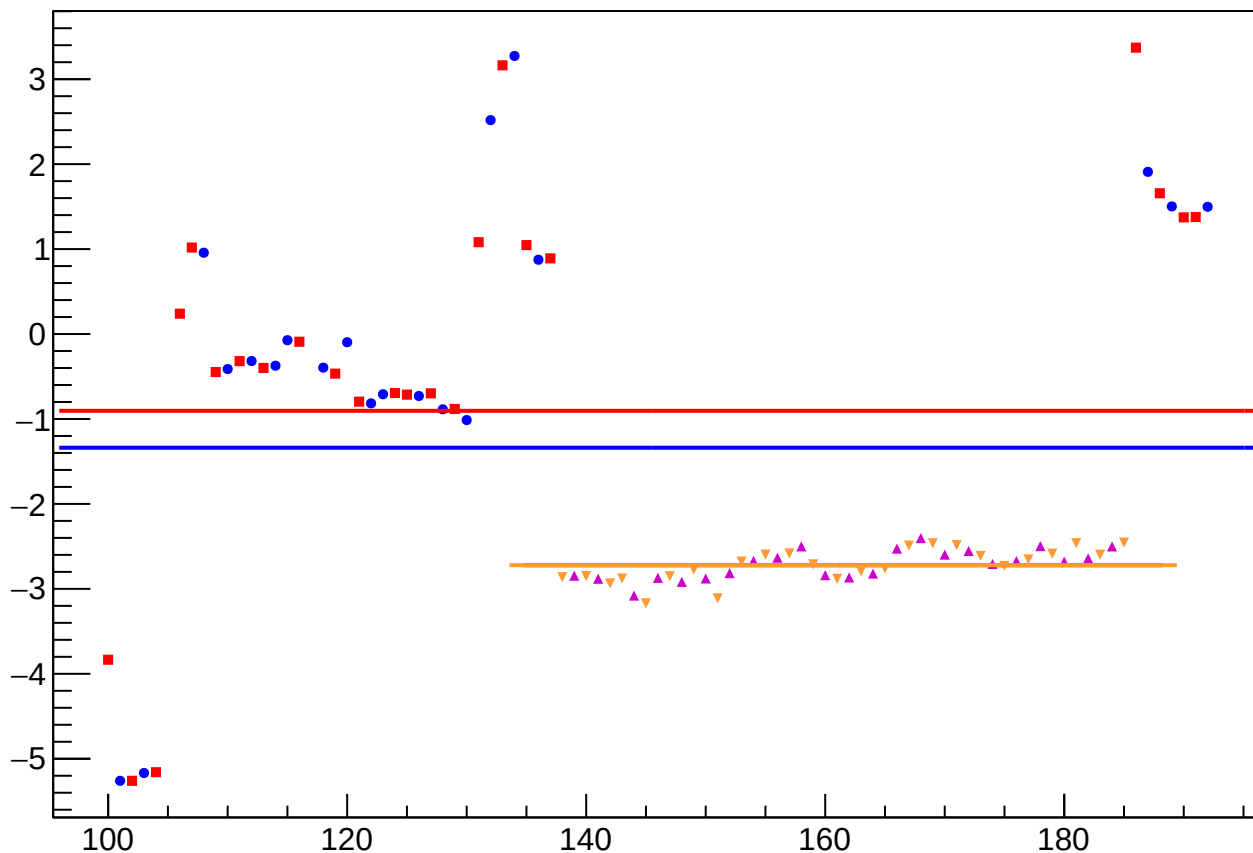
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16453229.5/42

In: 0.012 $\pm$ 0.000 χ^2 /NDF: 30069826.3/42

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 32540400.6/47

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 62647693.0/90

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.338+/-0.000 χ^2/NDF : 193400907073.2/19

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.904+/-0.000 χ^2/NDF : 212321145924.4/22

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

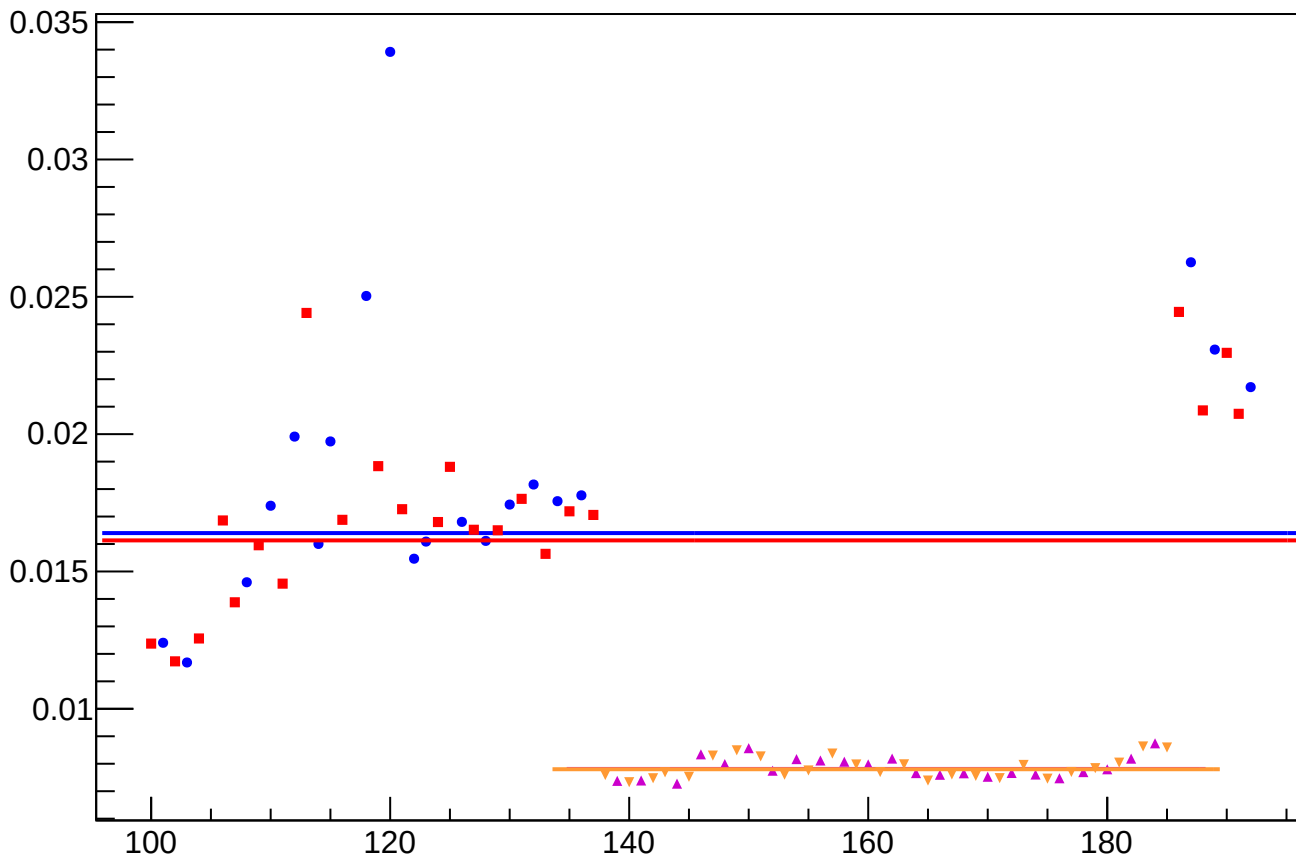
Right: -1.105+/-0.000 χ^2/NDF : 408349031635.6/42

In: -2.603+/-0.000 χ^2/NDF : 246727261448.7/42

Out: -2.551+/-0.000 χ^2/NDF : 312828057814.4/47

All: -2.576+/-0.000 χ^2/NDF : 559971121475.2

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 824326.2/19

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.016+/-0.000 χ^2/NDF : 635123.9/22

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

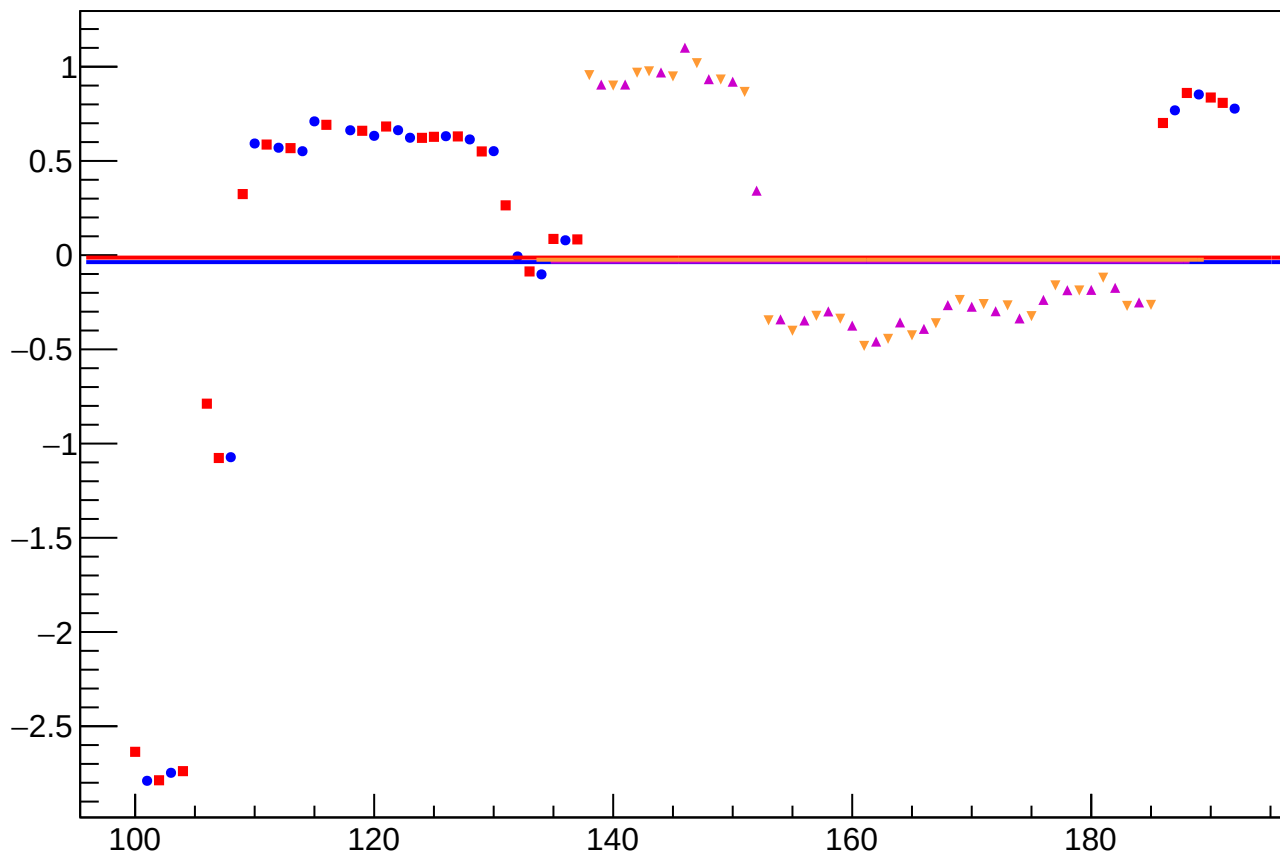
Right: 0.016+/-0.000 χ^2/NDF : 1461420.5/42

In: 0.009+/-0.000 χ^2/NDF : 4373259.4/42

Out: 0.009+/-0.000 χ^2/NDF : 4493312.2/47

All: 0.009+/-0.000 χ^2/NDF : 8866856.5/90

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.037+/-0.000

χ^2/NDF : 764259515255.9/19

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: -0.024+/-0.000

χ^2/NDF : 1585819568762.8/4

Right Out: -0.013+/-0.000

χ^2/NDF : 821385882100.2/22

In: -0.036+/-0.000

χ^2/NDF : 878190408735.8/42

Out: -0.018+/-0.000

χ^2/NDF : 956871946207.2/47

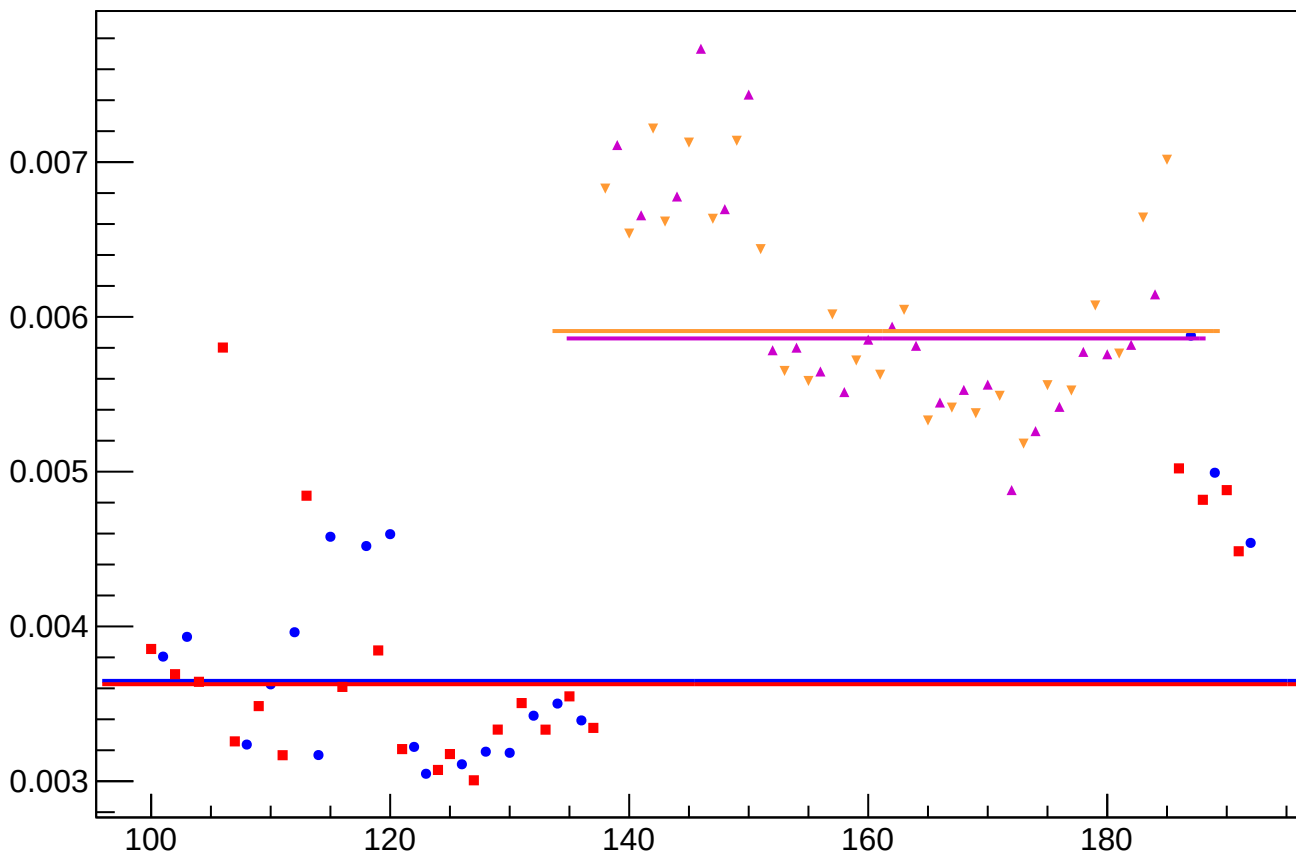
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: -0.026+/-0.000

χ^2/NDF : 1835236891522

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 363048.2/19

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 465392.1/22

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

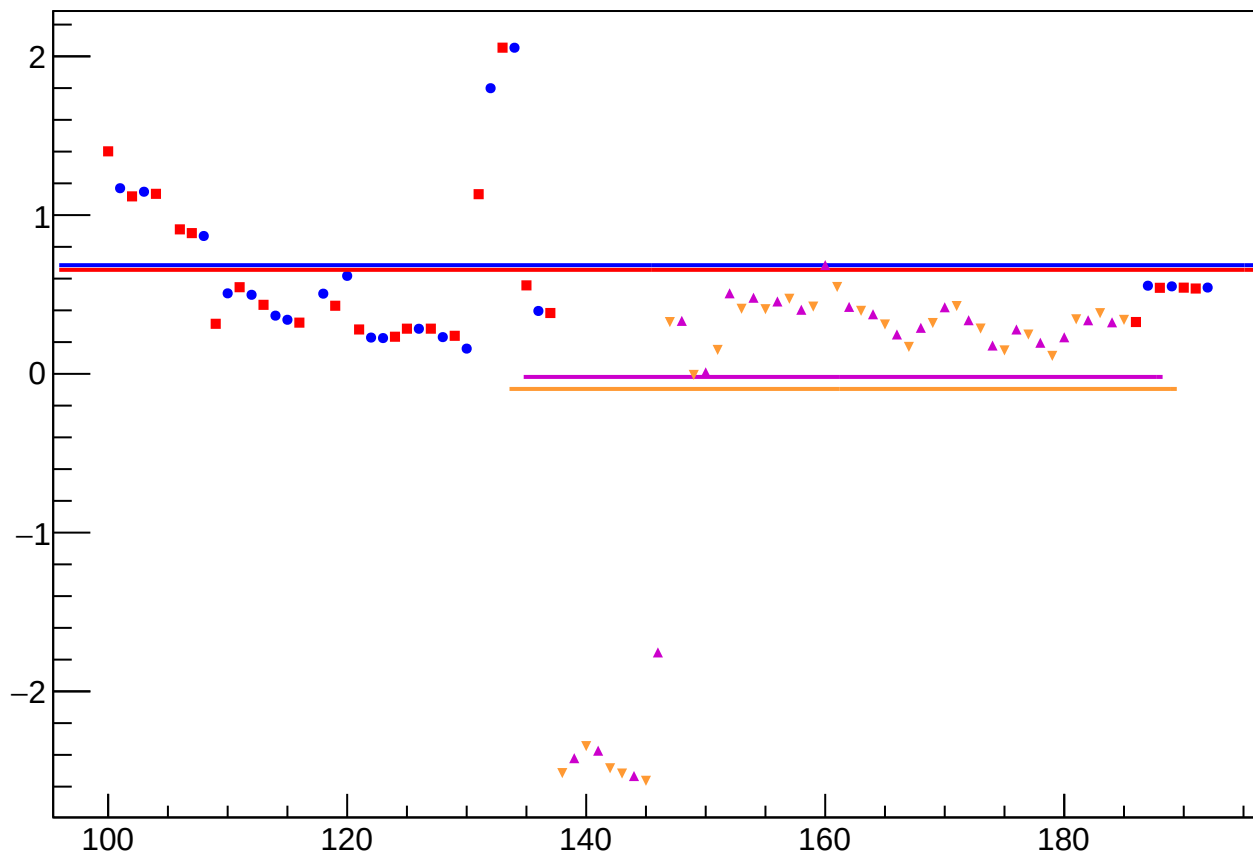
Right: 0.004+/-0.000 χ^2/NDF : 828717.6/42

In: 0.005+/-0.000 χ^2/NDF :3245757.6/42

Out: 0.005+/-0.000 χ^2/NDF :3635895.1/47

All: 0.005+/-0.000 χ^2/NDF : 6882401.2/90

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.685+/-0.000

χ^2/NDF : 37337248713.5/19

Left: -0.058+/-0.000

χ^2/NDF : 924153662333.7/47

Left Out: -0.095+/-0.000

χ^2/NDF : 505606573631.9/24

Right: 0.669+/-0.000

χ^2/NDF : 80726600470.7/42

Right Out: 0.655+/-0.000

χ^2/NDF : 43256805984.6/22

In: 0.238+/-0.000

χ^2/NDF : 543961467326.4/42

Out: 0.198+/-0.000

χ^2/NDF : 662277400304.5/47

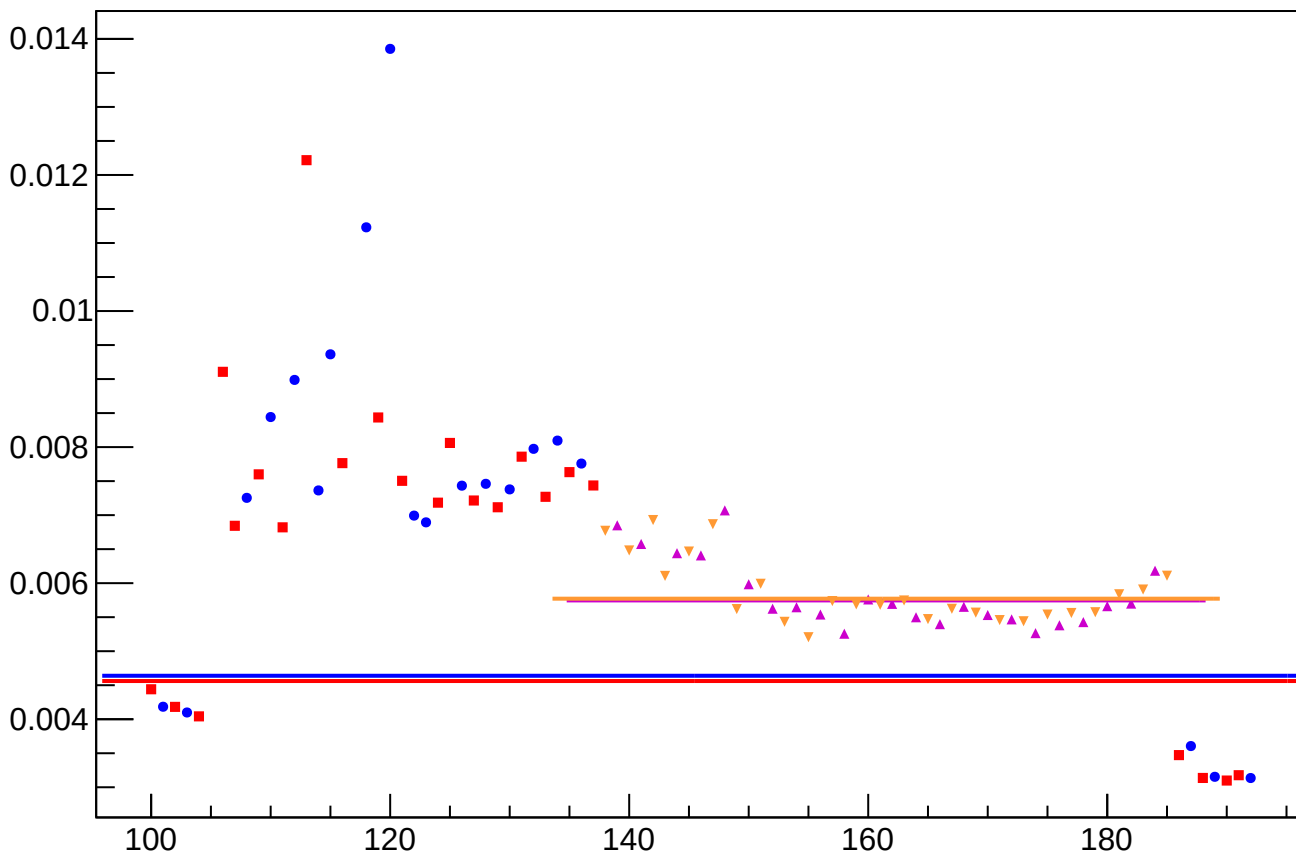
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.218+/-0.000

χ^2/NDF : 1206885816169.0

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2507954.6/19

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2492452.0/22

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

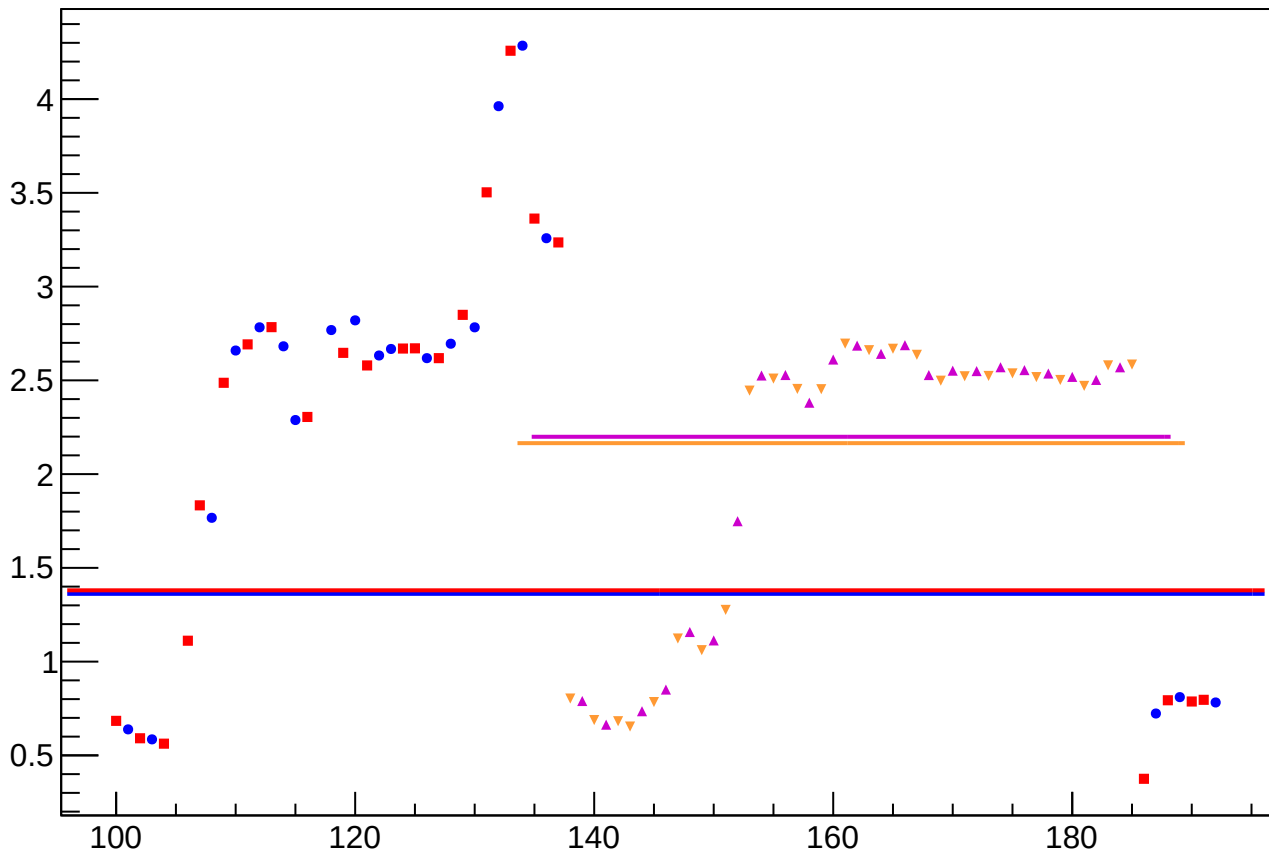
Right: 0.005+/-0.000 χ^2/NDF : 5002249.6/42

In: 0.005+/-0.000 χ^2/NDF :3155148.5/42

Out: 0.005+/-0.000 χ^2/NDF :3260856.3/47

All: 0.005+/-0.000 χ^2/NDF : 6417468.9/90

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.361+/-0.000 χ^2/NDF : 232870061536.2/19

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.380+/-0.000 χ^2/NDF : 276632116836.4/22

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

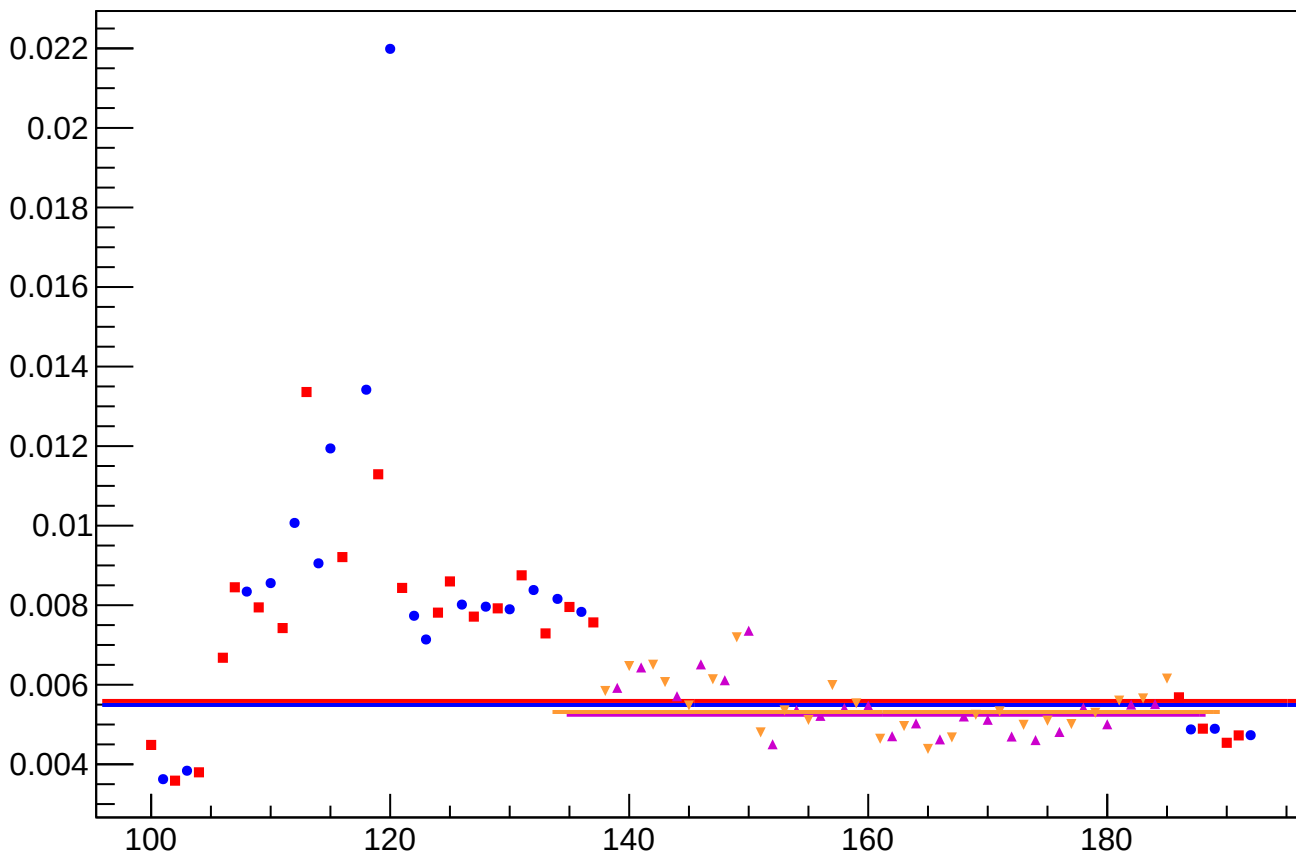
Right: 1.371+/-0.000 χ^2/NDF : 509540310604.8/42

In: 1.977+/-0.000 χ^2/NDF : 592388925348.8/42

Out: 1.947+/-0.000 χ^2/NDF : 670211256206.0/47

All: 1.962+/-0.000 χ^2/NDF : 1262979191343.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2000686.4/19

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1798349.1/22

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

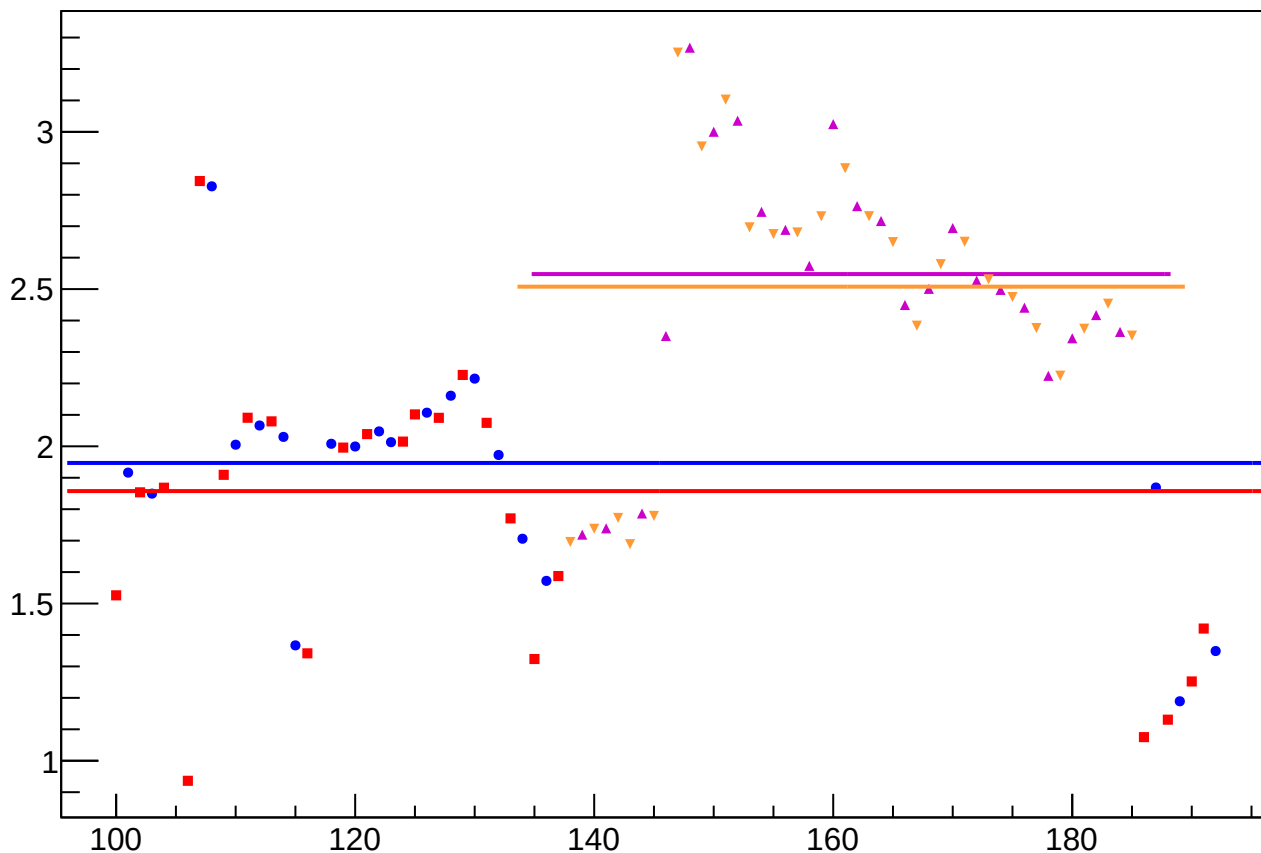
Right: 0.006+/-0.000 χ^2/NDF : 3801242.3/42

In: 0.005+/-0.000 χ^2/NDF :2444918.1/42

Out: 0.005+/-0.000 χ^2/NDF :2222351.3/47

All: 0.005+/-0.000 χ^2/NDF : 4672598.1/90

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.947 $\pm$ 0.000 χ^2 /NDF: 18774065878.0/19

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.858 $\pm$ 0.000 χ^2 /NDF: 31486081410.7/22

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

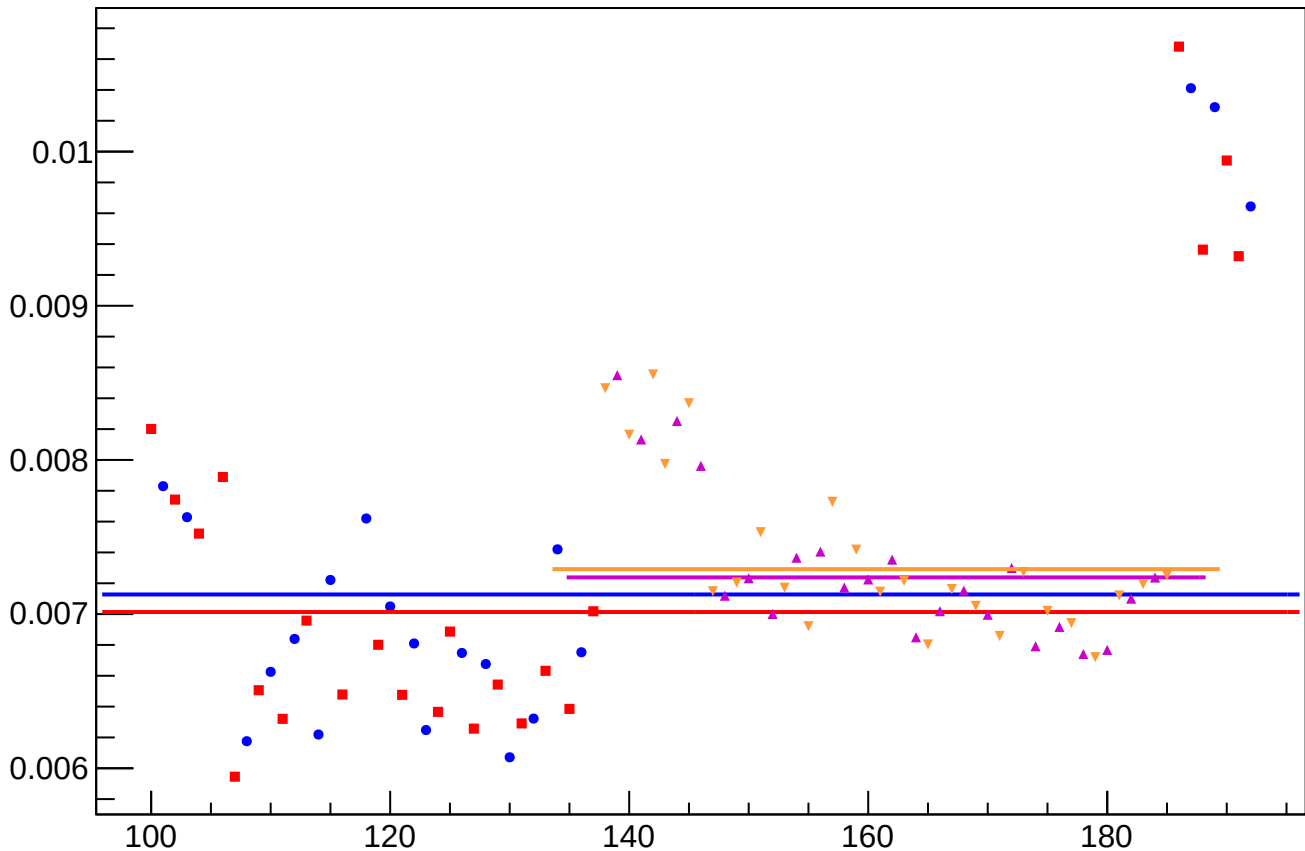
Right: 1.900 $\pm$ 0.000 χ^2 /NDF: 50903628982.5/42

In: 2.353 $\pm$ 0.000 χ^2 /NDF: 101109694245.7/42

Out: 2.285 $\pm$ 0.000 χ^2 /NDF: 131403082705.7/47

All: 2.318 $\pm$ 0.000 χ^2 /NDF: 233644583771.5

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 339027.3/19

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 394438.4/22

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

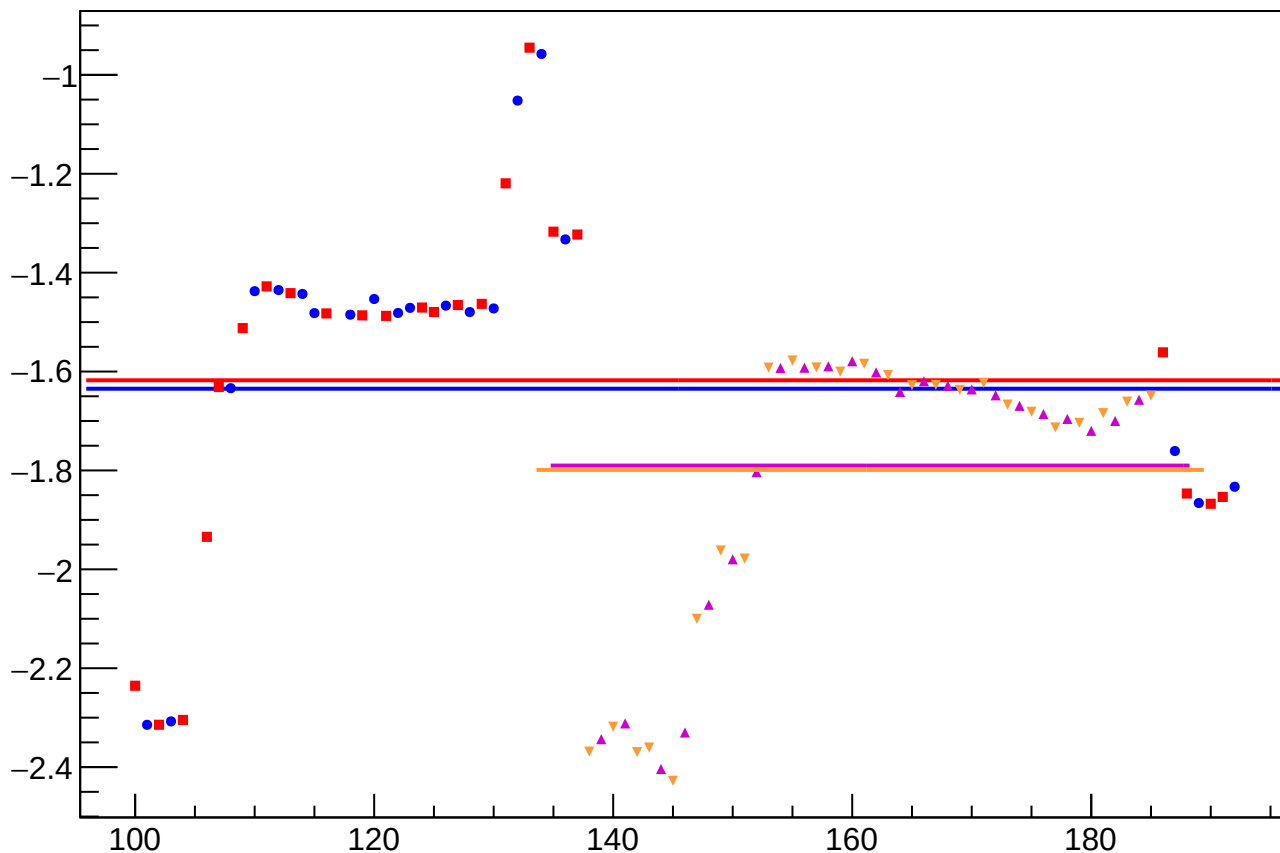
Right: 0.007+/-0.000 χ^2/NDF : 735553.2/42

In: 0.007+/-0.000 χ^2/NDF :466774.1/42

Out: 0.007+/-0.000 χ^2/NDF :552646.1/47

All: 0.007+/-0.000 χ^2/NDF : 1019437.4/90

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.635+/-0.000 χ^2/NDF : 147109369187.5/19

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.618+/-0.000 χ^2/NDF : 153276468132.0/22

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

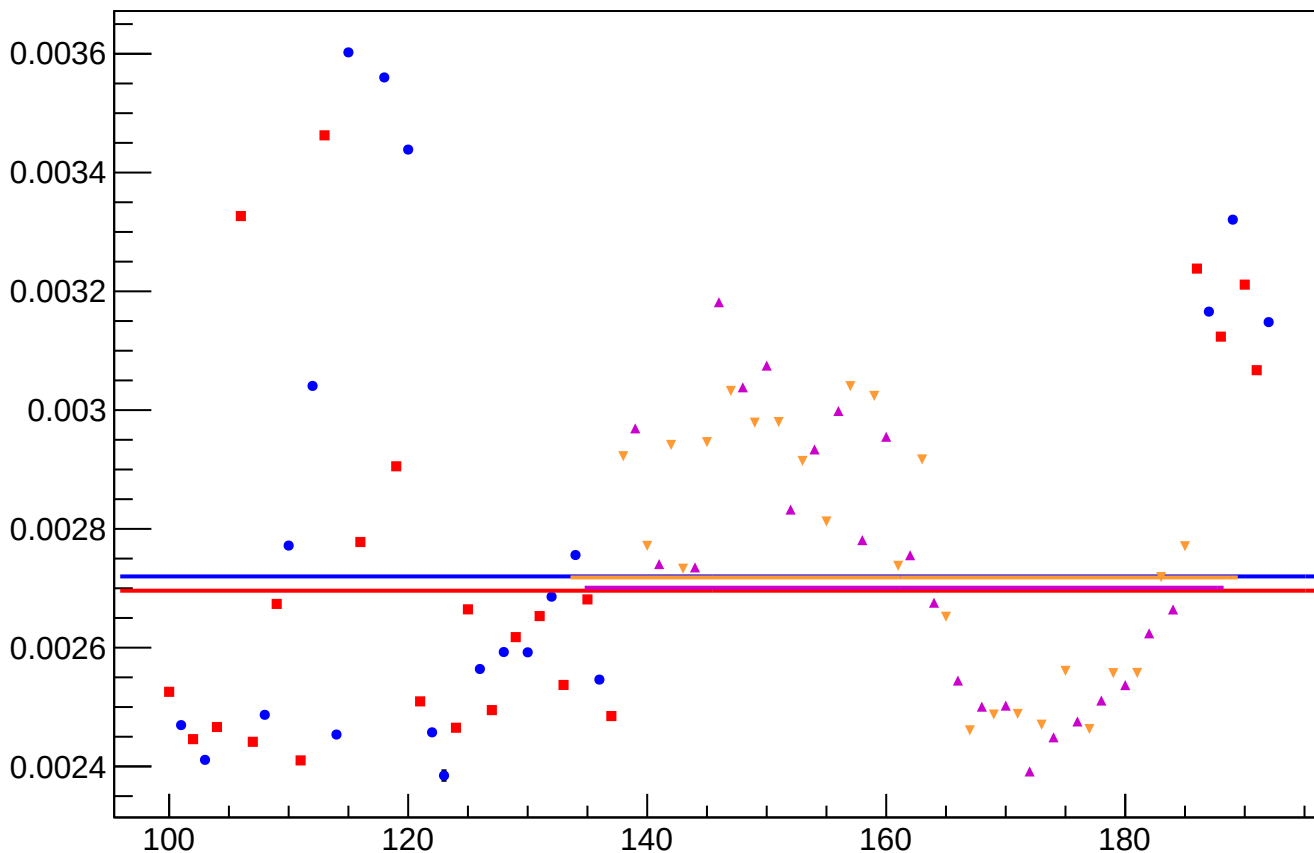
Right: -1.626+/-0.000 χ^2/NDF : 300546398668.3/42

In: -1.741+/-0.000 χ^2/NDF : 324018173221.5/42

Out: -1.739+/-0.000 χ^2/NDF : 364243360062.6/47

All: -1.740+/-0.000 χ^2/NDF : 688268938496.8

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 231499.0/19

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 197396.5/22

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

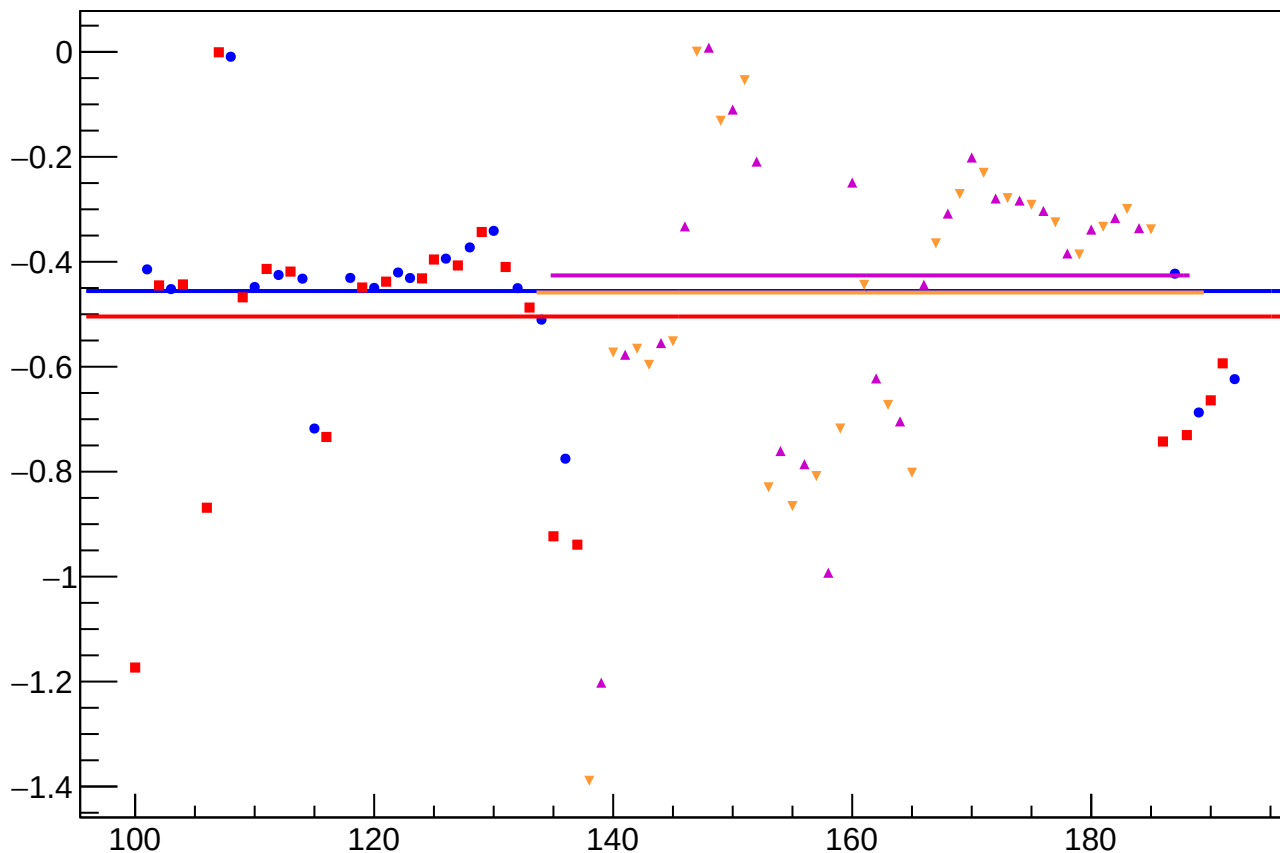
Right: 0.003+/-0.000 χ^2/NDF : 429530.0/42

In: 0.003+/-0.000 χ^2/NDF :452343.0/42

Out: 0.003+/-0.000 χ^2/NDF :397868.7/47

All: 0.003+/-0.000 χ^2/NDF : 850265.5/90

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.456+/-0.000 χ^2/NDF : 1647208590.5/19

Left Out: -0.459+/-0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.504+/-0.000 χ^2/NDF : 2980490281.7/22

Left In: -0.426+/-0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443+/-0.000 χ^2/NDF : 18401926676.9/47

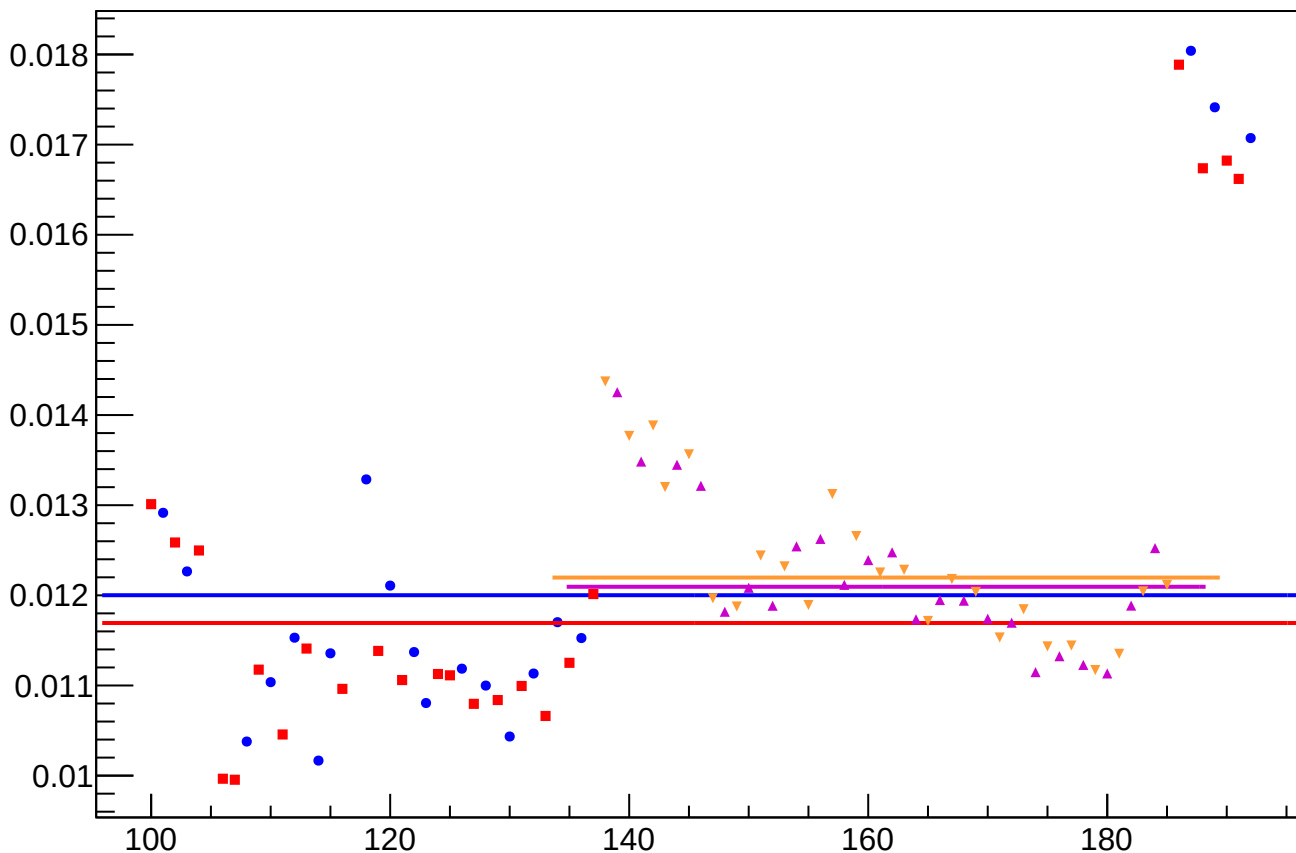
Right: -0.482+/-0.000 χ^2/NDF : 4696074912.3/42

In: -0.436+/-0.000 χ^2/NDF : 10103840314.2/42

Out: -0.474+/-0.000 χ^2/NDF : 12982441736.3/47

All: -0.456+/-0.000 χ^2/NDF : 23216793176.8/190

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 373965.4/19

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 447066.4/22

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

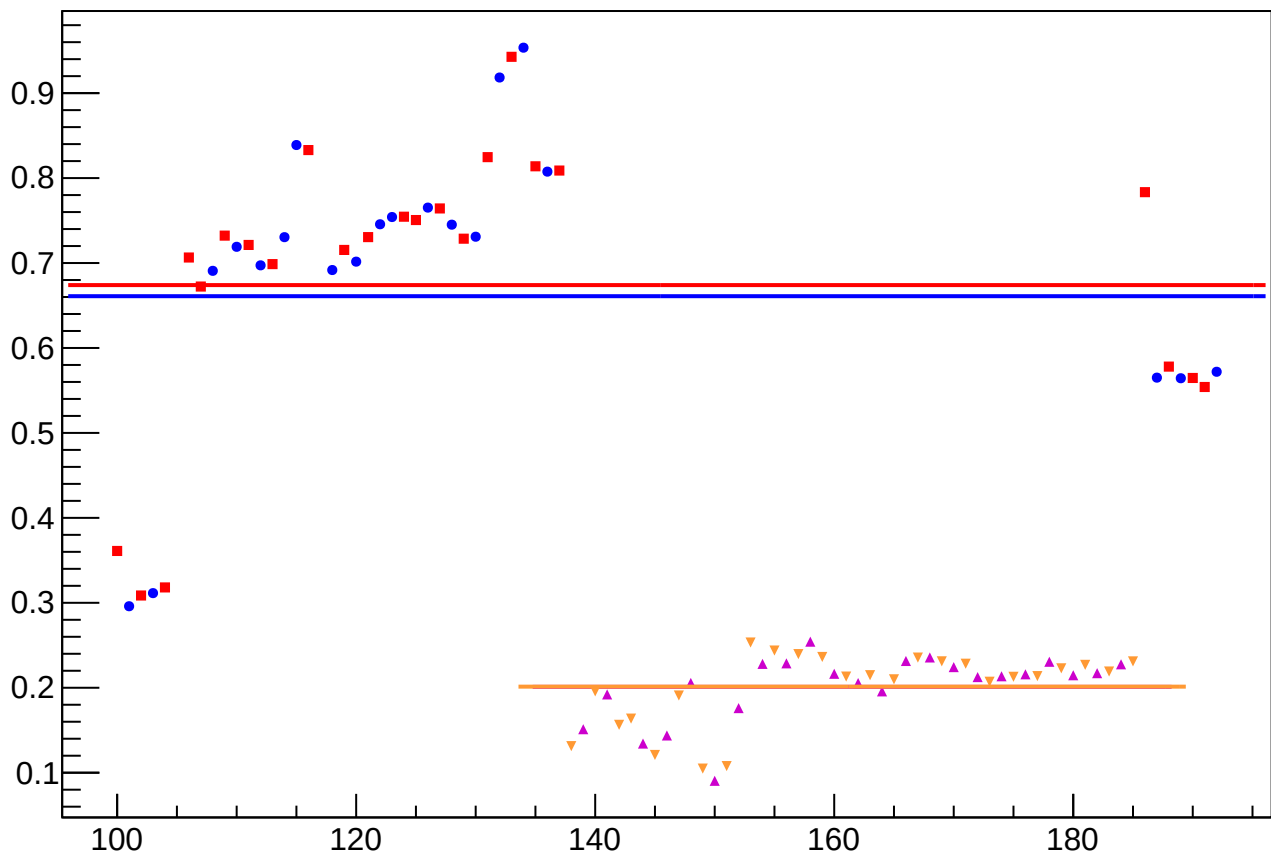
Right: 0.012+/-0.000 χ^2/NDF : 826546.4/42

In: 0.012+/-0.000 χ^2/NDF :501916.8/42

Out: 0.012+/-0.000 χ^2/NDF :609682.6/47

All: 0.012+/-0.000 χ^2/NDF : 1111905.3/90

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.661 $\pm$ 0.000 χ^2 /NDF: 40383634185.9/19

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.674 $\pm$ 0.000 χ^2 /NDF: 38161666271.2/22

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

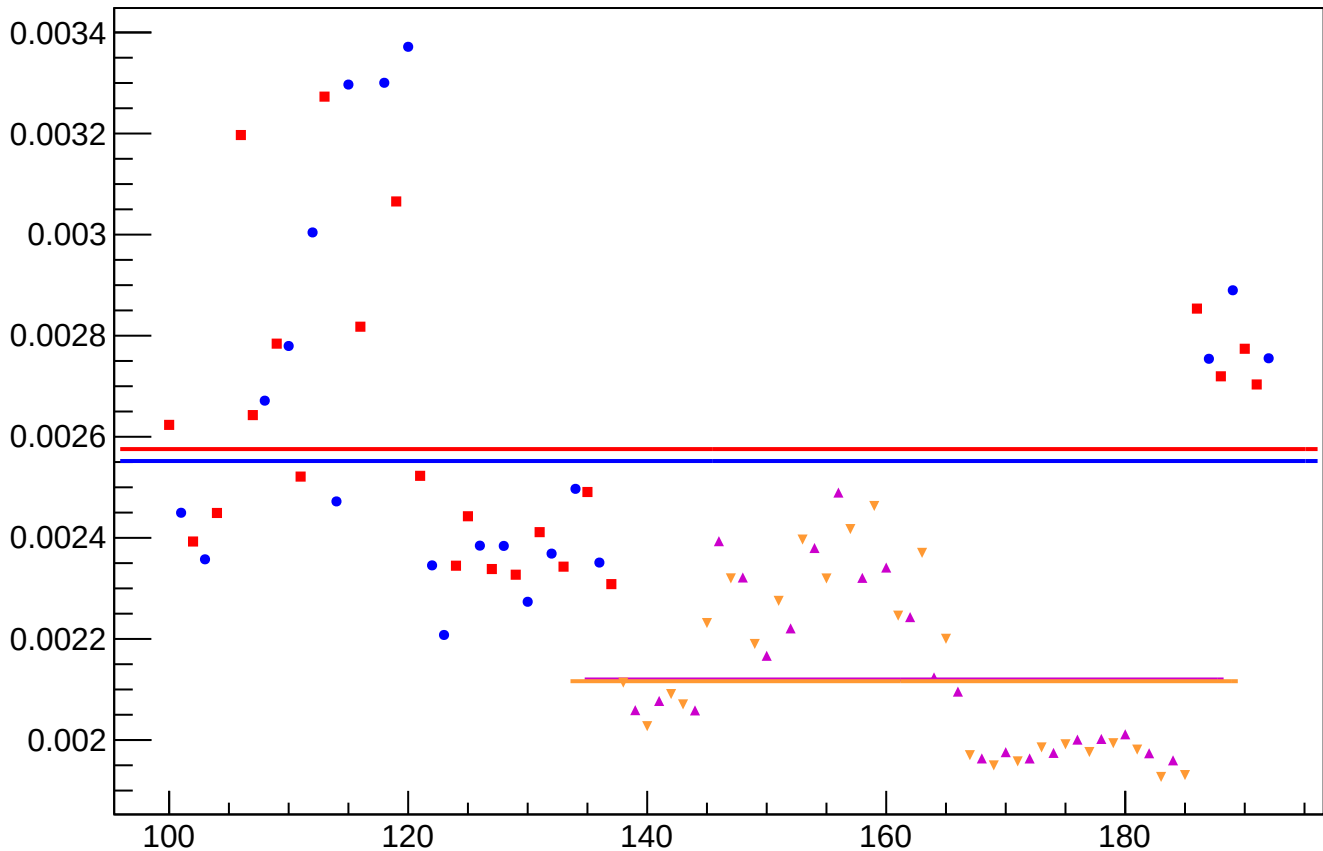
Right: 0.668 $\pm$ 0.000 χ^2 /NDF: 78651097001.5/42

In: 0.311 $\pm$ 0.000 χ^2 /NDF: 239012520780.0/42

Out: 0.315 $\pm$ 0.000 χ^2 /NDF: 262589467190.5/47

All: 0.313 $\pm$ 0.000 χ^2 /NDF: 501638021858.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 202314.9/19

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 151593.3/22

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

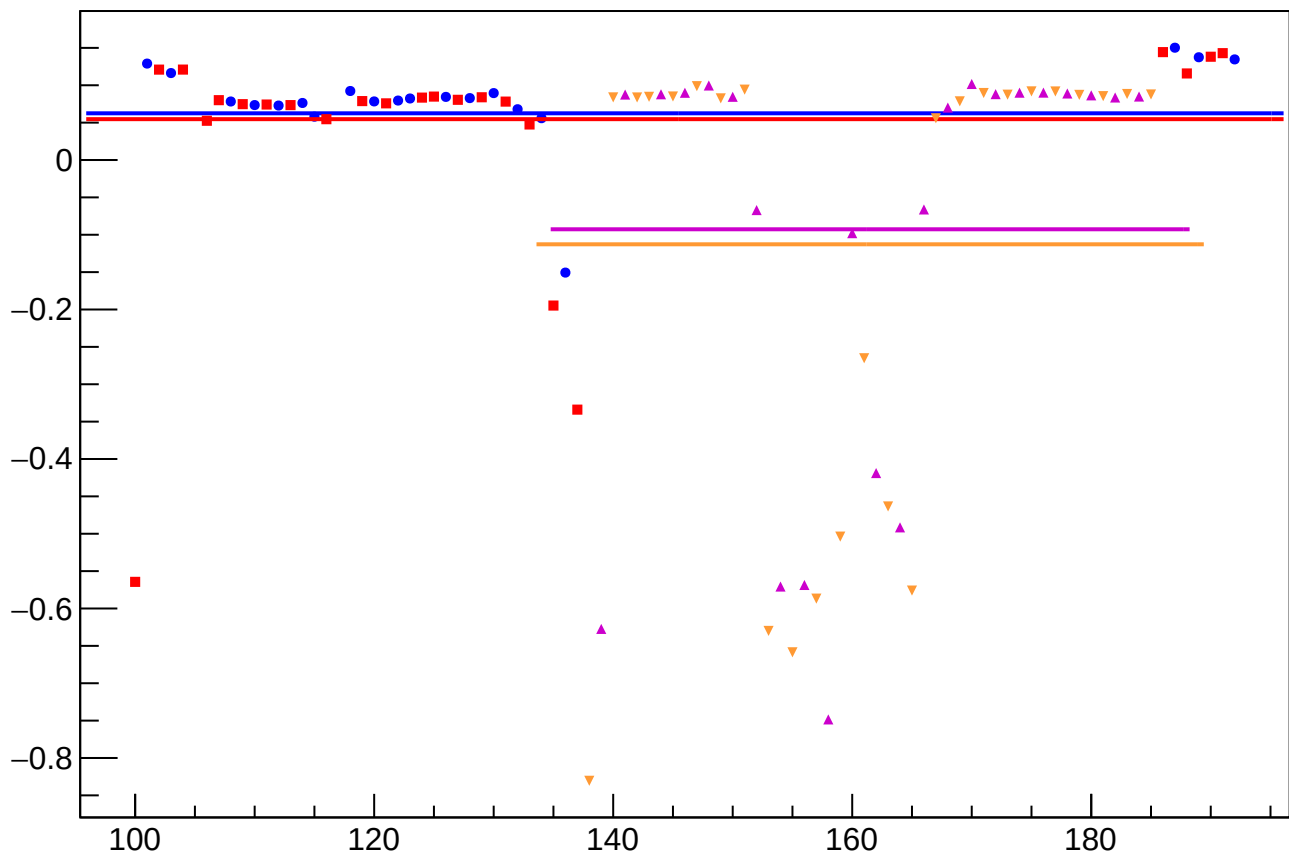
Right: 0.003+/-0.000 χ^2/NDF : 354600.6/42

In: 0.002+/-0.000 χ^2/NDF :732387.3/42

Out: 0.002+/-0.000 χ^2/NDF :786386.8/47

All: 0.002+/-0.000 χ^2/NDF : 1518836.2/90

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.062 $\pm$ 0.000

χ^2 /NDF: 460178446.4/19

Left: -0.103 $\pm$ 0.000

χ^2 /NDF: 24747894543.0/47

Left Out: -0.113 $\pm$ 0.000

χ^2 /NDF:13667354077.1/24

Right: 0.058 $\pm$ 0.000

χ^2 /NDF: 1330506693.6/42

Right Out: 0.055 $\pm$ 0.000

χ^2 /NDF: 867913953.6/22

In: -0.039 $\pm$ 0.000

χ^2 /NDF:12667341460.6/42

Out: -0.051 $\pm$ 0.000

χ^2 /NDF:16035876263.0/47

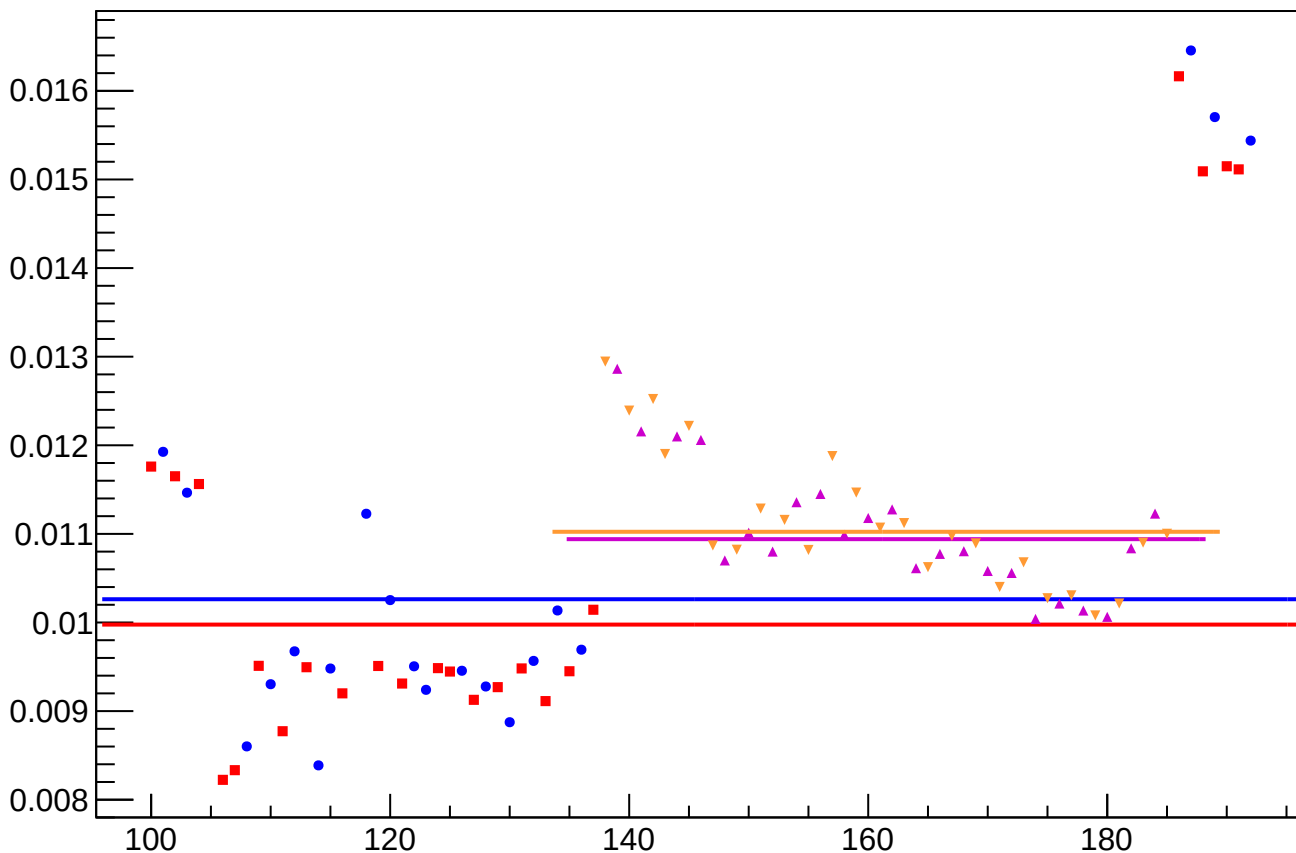
Left In: -0.093 $\pm$ 0.000

χ^2 /NDF:11051944893.7/22

All: -0.045 $\pm$ 0.000

χ^2 /NDF: 28718767059.3/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2/NDF : 502823.9/19

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF :141501.7/24

Right Out: 0.010 $\pm$ 0.000 χ^2/NDF : 596963.6/22

Left In: 0.011 $\pm$ 0.000 χ^2/NDF :128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 271400.1/47

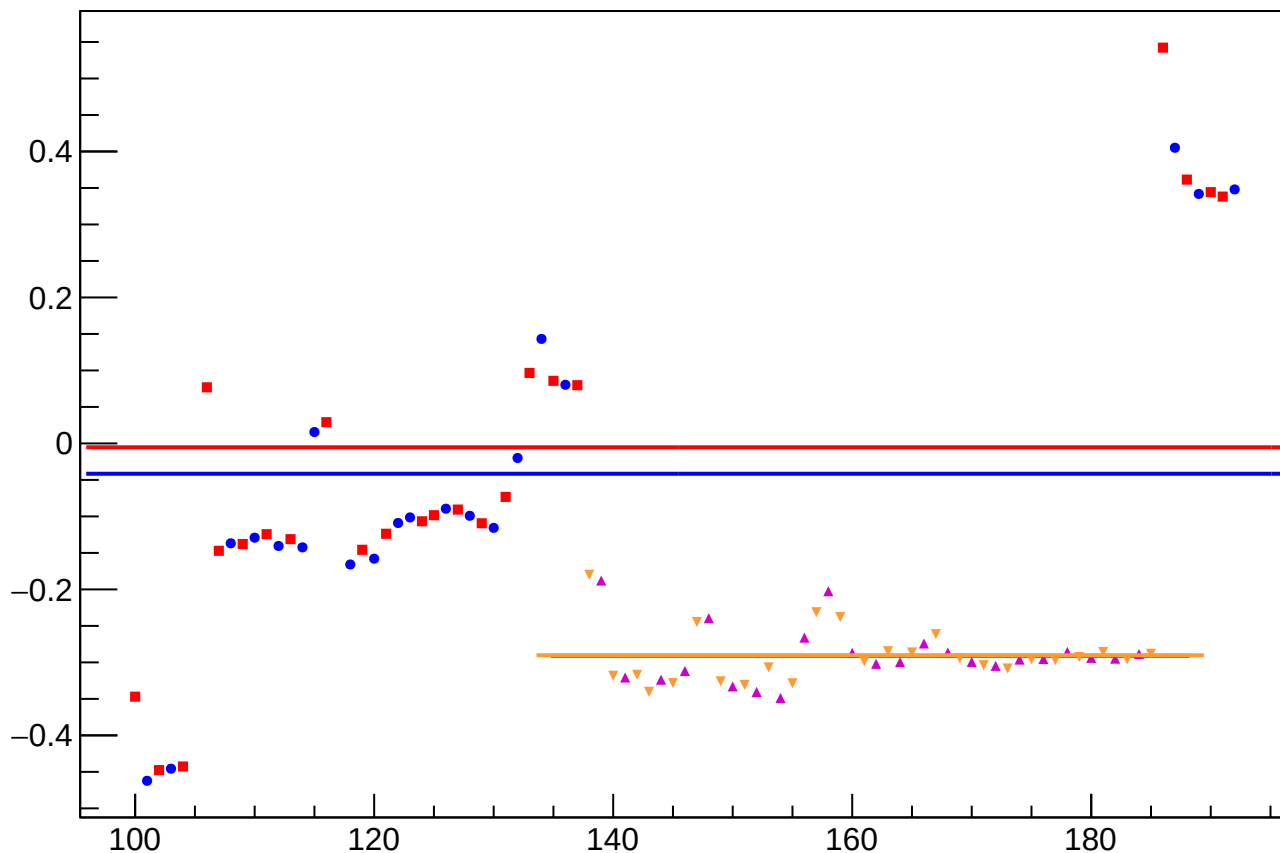
Right: 0.010 $\pm$ 0.000 χ^2/NDF : 1106234.8/42

In: 0.011 $\pm$ 0.000 χ^2/NDF :675854.6/42

Out: 0.011 $\pm$ 0.000 χ^2/NDF :855956.4/47

All: 0.011 $\pm$ 0.000 χ^2/NDF : 1532872.1/90

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.042+/-0.000 χ^2/NDF : 32829437881.7/19

Left Out: -0.290+/-0.000 χ^2/NDF : 2877519093.0/24

Right Out: -0.005+/-0.000 χ^2/NDF : 37085409817.8/22

Left In: -0.291+/-0.000 χ^2/NDF : 3125402243.3/22

Left: -0.291+/-0.000 χ^2/NDF : 6003615293.4/47

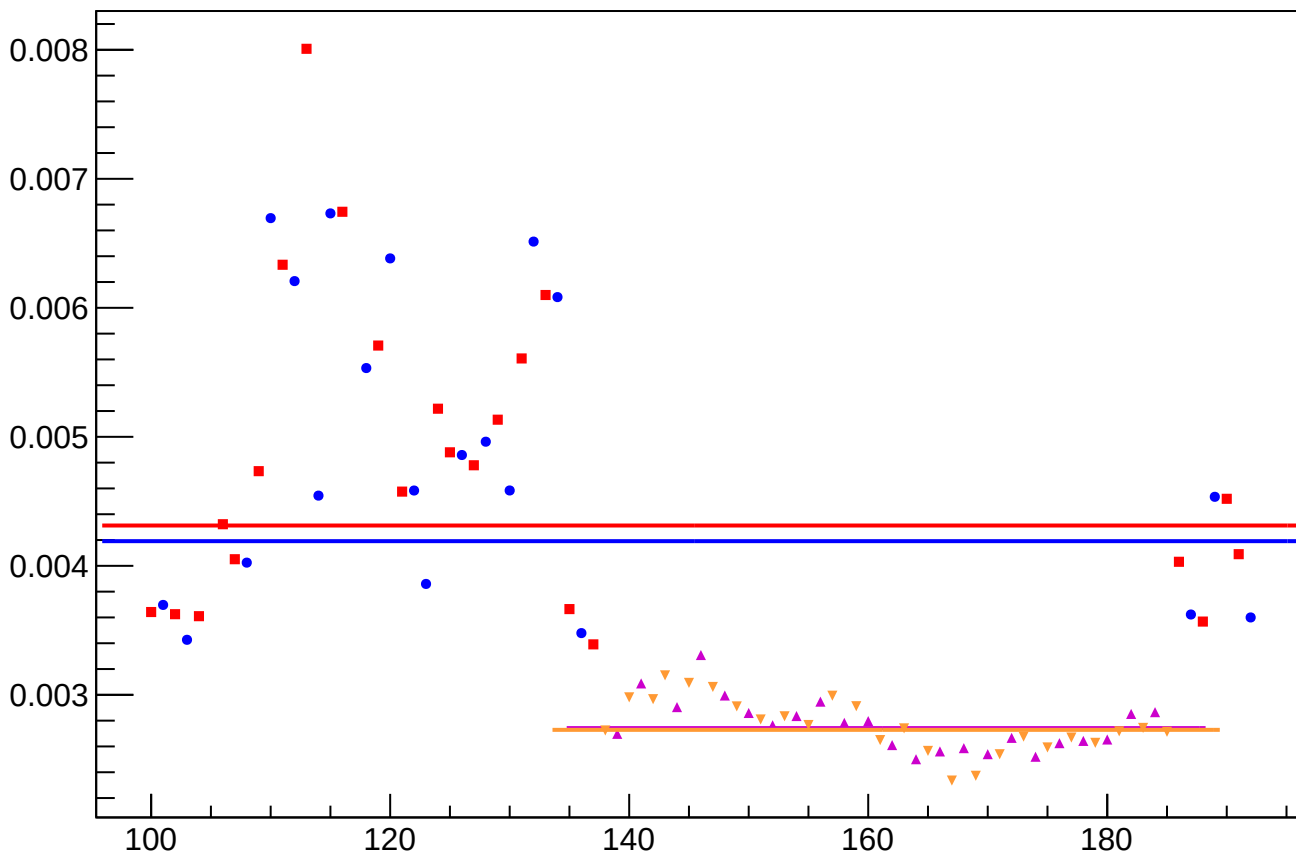
Right: -0.023+/-0.000 χ^2/NDF : 70189701813.9/42

In: -0.252+/-0.000 χ^2/NDF : 57510789325.3/42

Out: -0.247+/-0.000 χ^2/NDF : 69261949474.6/47

All: -0.249+/-0.000 χ^2/NDF : 126807208335.9

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 686409.7/19

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 737806.0/22

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

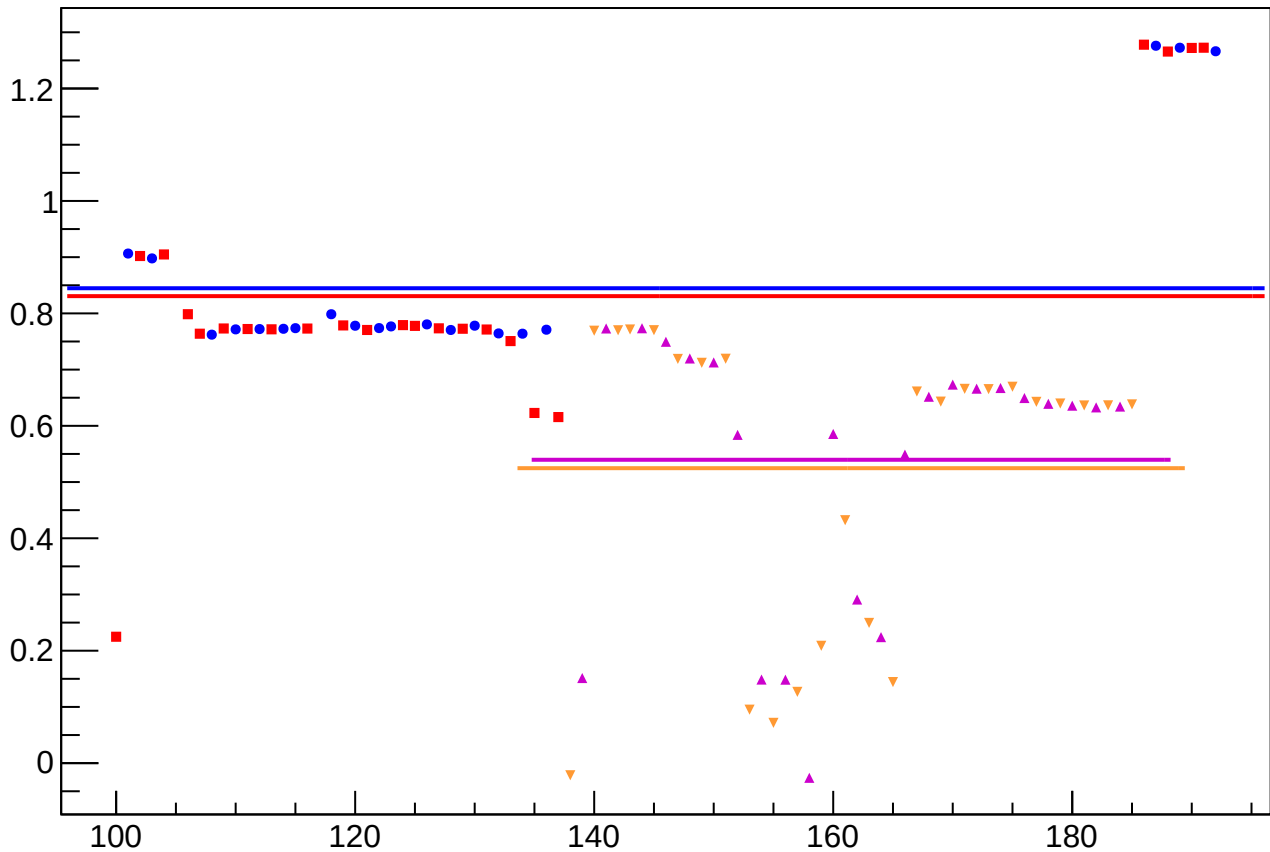
Right: 0.004+/-0.000 χ^2/NDF : 1430367.9/42

In: 0.003+/-0.000 χ^2/NDF :2288282.3/42

Out: 0.003+/-0.000 χ^2/NDF :2754756.3/47

All: 0.003+/-0.000 χ^2/NDF : 5043038.8/90

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.845+/-0.000 χ^2/NDF : 1489697382.2/19

Left Out: 0.525+/-0.000 χ^2/NDF : 9623503169.9/24

Right Out: 0.831+/-0.000 χ^2/NDF : 2265055061.4/22

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532+/-0.000 χ^2/NDF : 17500739852.2/47

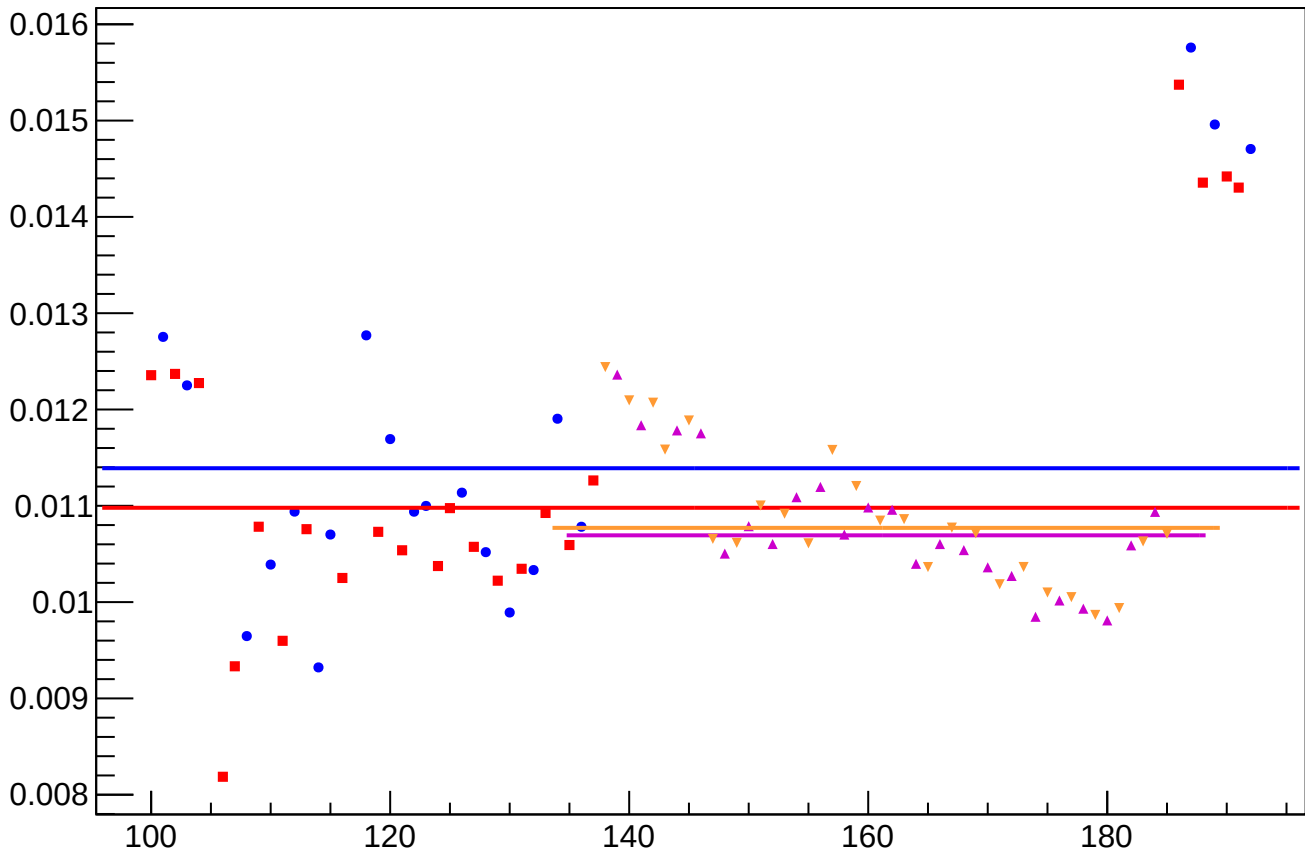
Right: 0.837+/-0.000 χ^2/NDF : 3761204672.1/42

In: 0.629+/-0.000 χ^2/NDF : 13326973967.7/42

Out: 0.622+/-0.000 χ^2/NDF : 16429663637.4/47

All: 0.625+/-0.000 χ^2/NDF : 29761837173.1/95

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 285048.9/19

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 369926.8/22

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

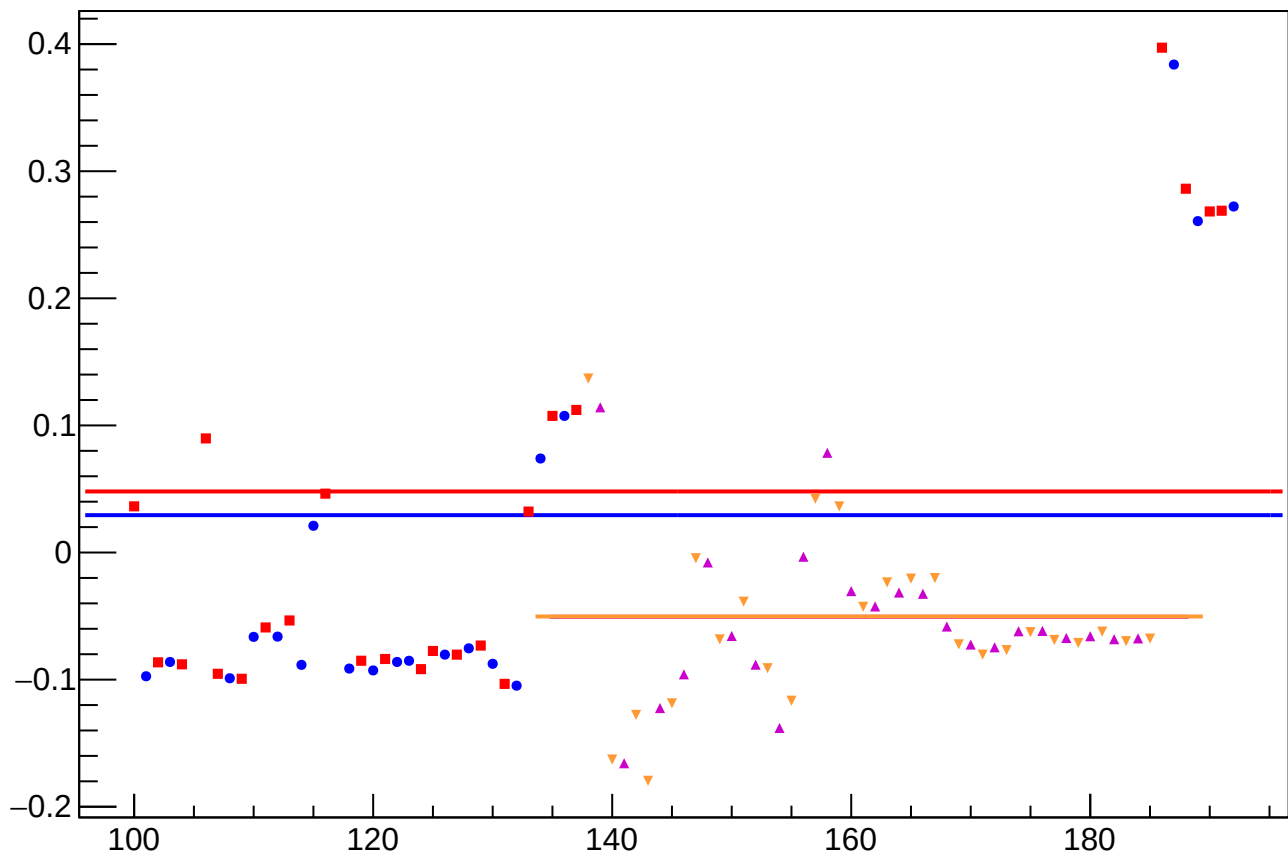
Right: 0.011+/-0.000 χ^2/NDF : 665992.8/42

In: 0.011+/-0.000 χ^2/NDF :445812.1/42

Out: 0.011+/-0.000 χ^2/NDF :505775.5/47

All: 0.011+/-0.000 χ^2/NDF : 952361.1/90

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 8053305876.6/19

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.048+/-0.000 χ^2/NDF : 9780609485.2/22

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

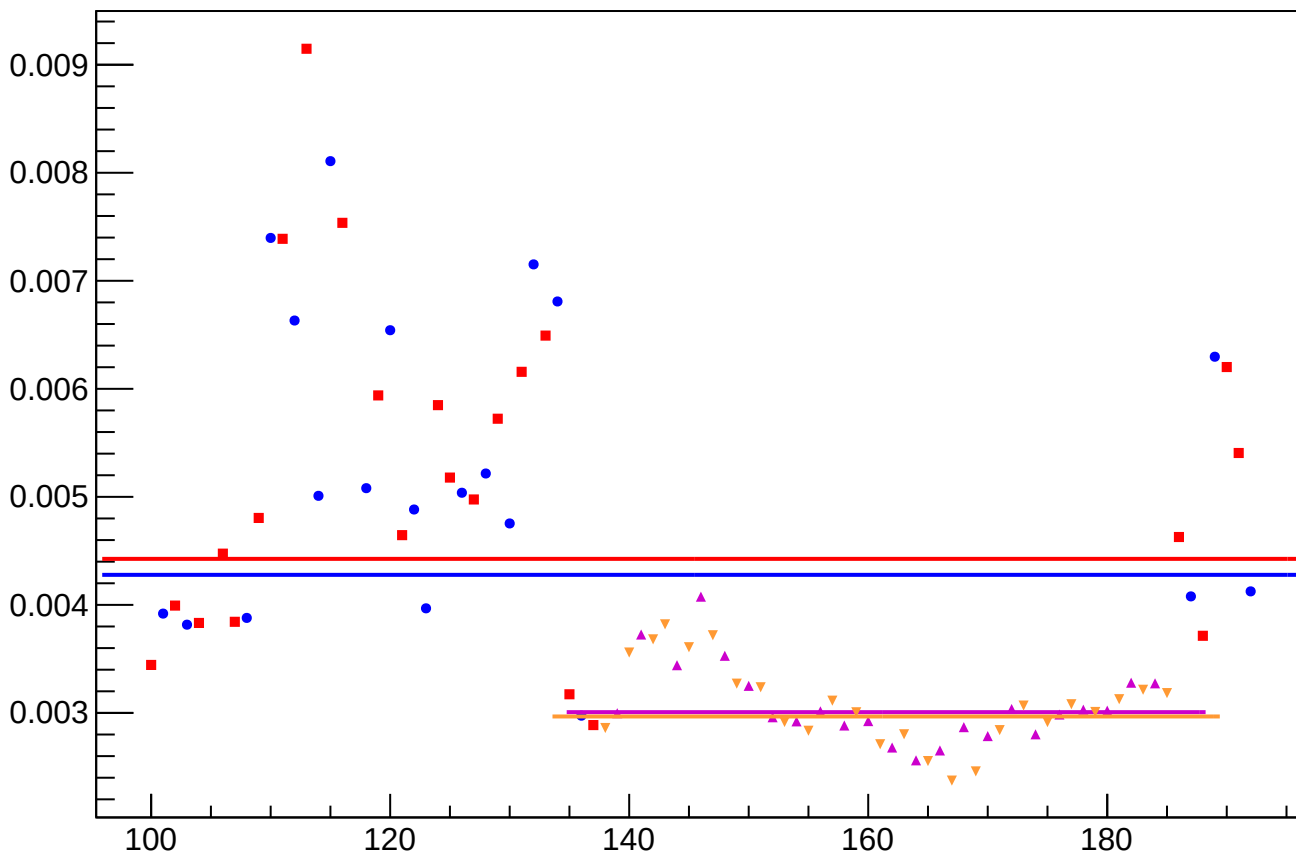
Right: 0.039+/-0.000 χ^2/NDF : 17899413749.7/42

In: -0.037+/-0.000 χ^2/NDF : 16159865458.8/42

Out: -0.034+/-0.000 χ^2/NDF : 20126014466.1/47

All: -0.035+/-0.000 χ^2/NDF : 36292722899.2/47

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 974766.4/19

Left Out: 0.003+/-0.000 χ^2/NDF :499039.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1096722.6/22

Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

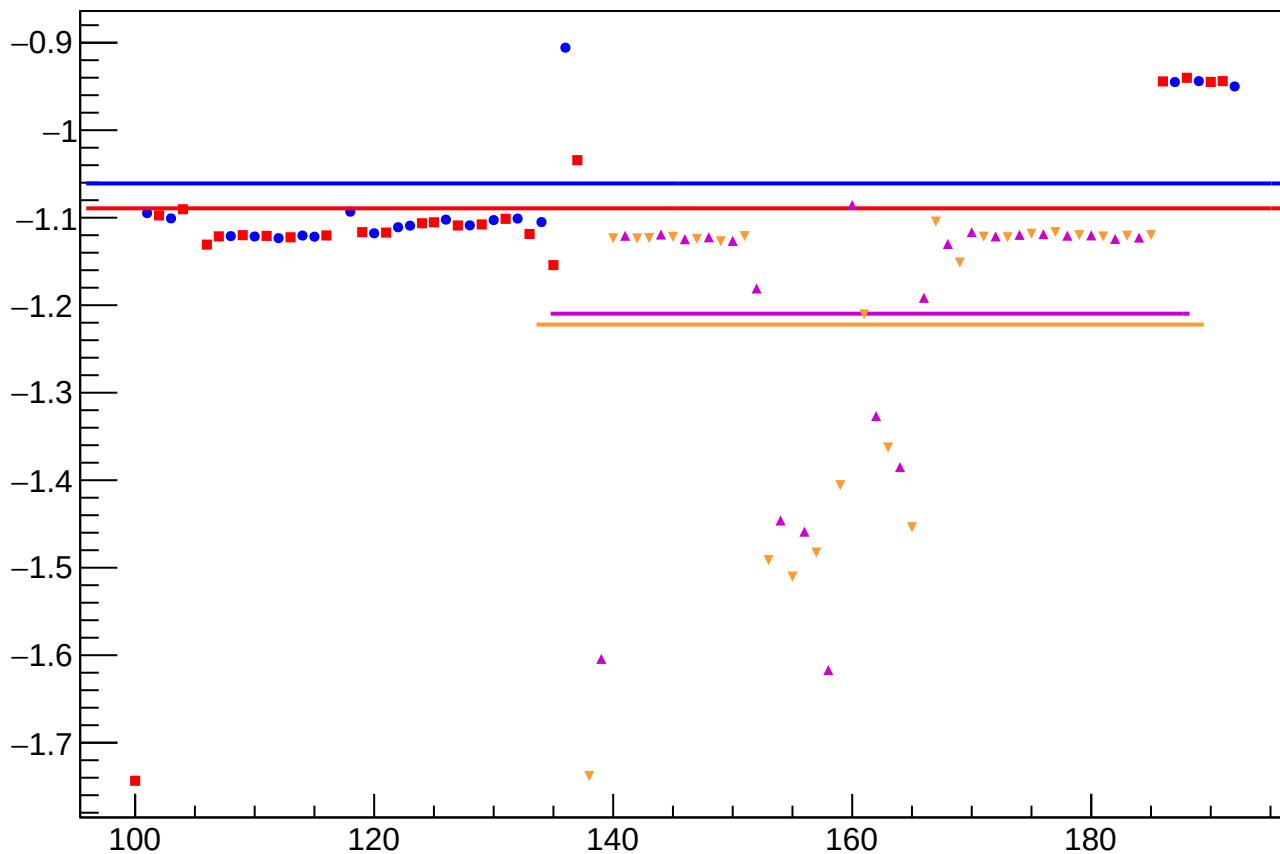
Right: 0.004+/-0.000 χ^2/NDF : 2079741.0/42

In: 0.003+/-0.000 χ^2/NDF :2302720.5/42

Out: 0.003+/-0.000 χ^2/NDF :2948264.7/47

All: 0.003+/-0.000 χ^2/NDF : 5252052.2/90

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.061 ± 0.000 $\chi^2/\text{NDF}: 337262468.0/19$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.089 ± 0.000 $\chi^2/\text{NDF}: 511659319.4/22$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.216 ± 0.000 $\chi^2/\text{NDF}: 9796254294.5/47$

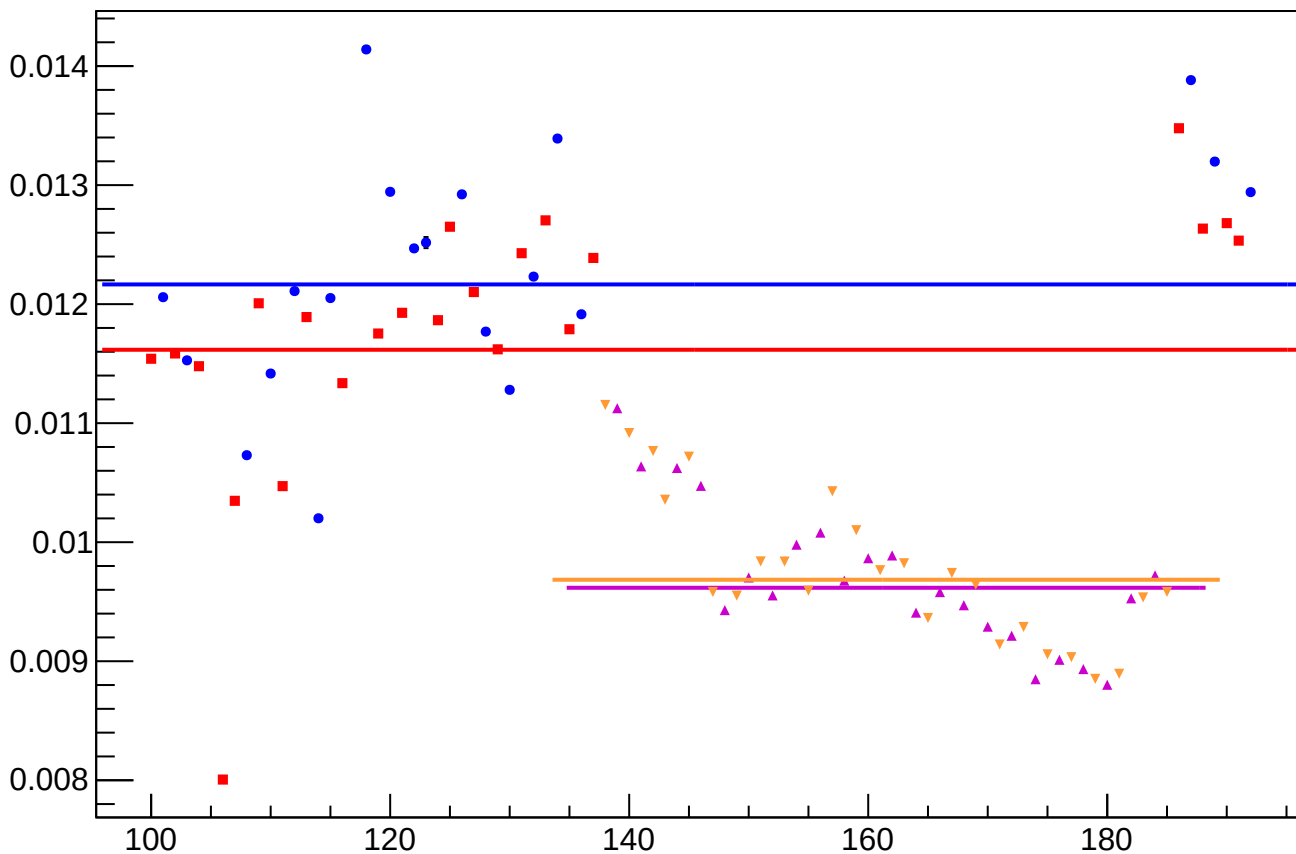
Right: -1.076 ± 0.000 $\chi^2/\text{NDF}: 872435792.6/42$

In: -1.176 ± 0.000 $\chi^2/\text{NDF}: 5753762976.8/42$

Out: -1.189 ± 0.000 $\chi^2/\text{NDF}: 6634207249.0/47$

All: -1.182 ± 0.000 $\chi^2/\text{NDF}: 12408011922.2/100$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 78206.7/19

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 191520.7/22

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

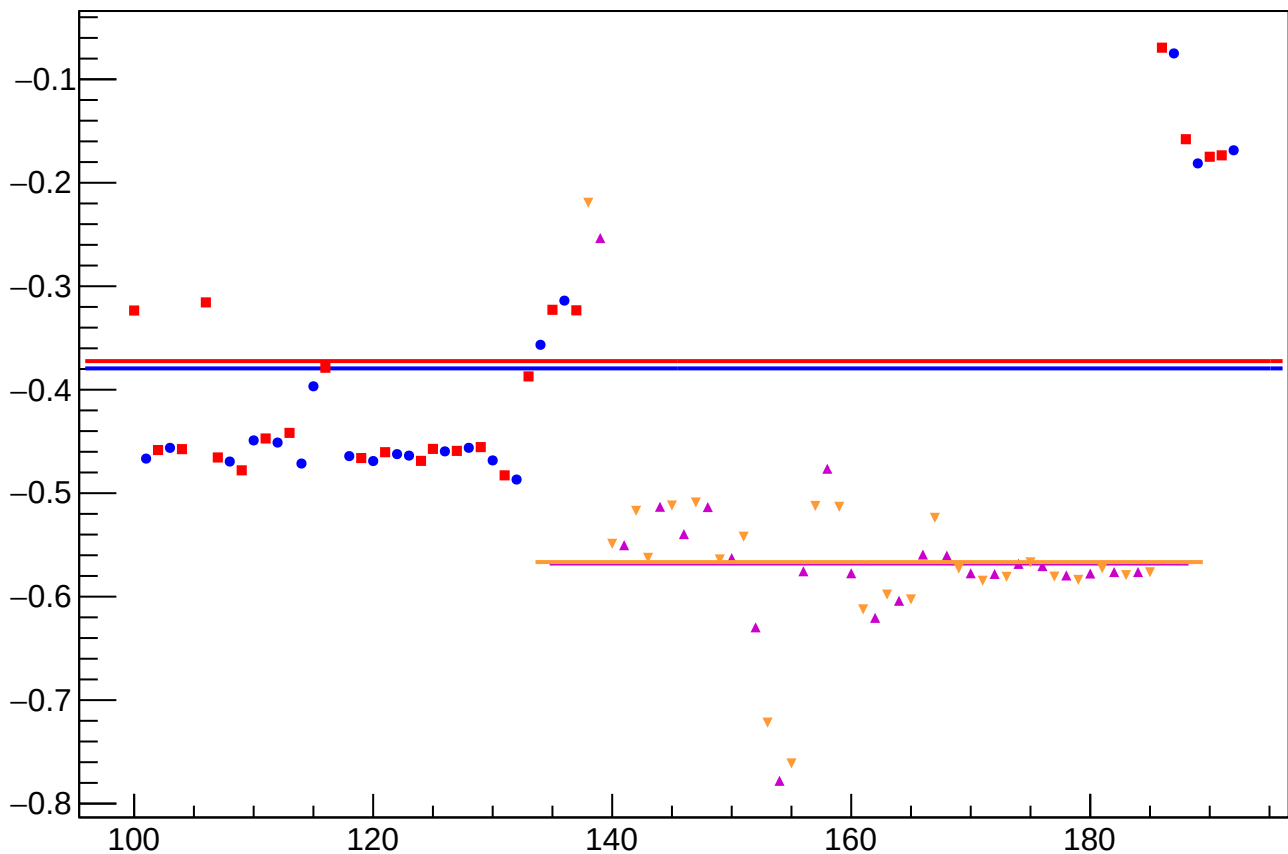
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 287263.5/42

In: 0.010 $\pm$ 0.000 χ^2 /NDF:734264.1/42

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:683118.1/47

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 1417540.0/90

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.379 ± 0.000 χ^2/NDF : 6306307185.8/19

Left Out: -0.567 ± 0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.372 ± 0.000 χ^2/NDF : 7444350993.2/22

Left In: -0.568 ± 0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567 ± 0.000 χ^2/NDF : 23829000396.4/47

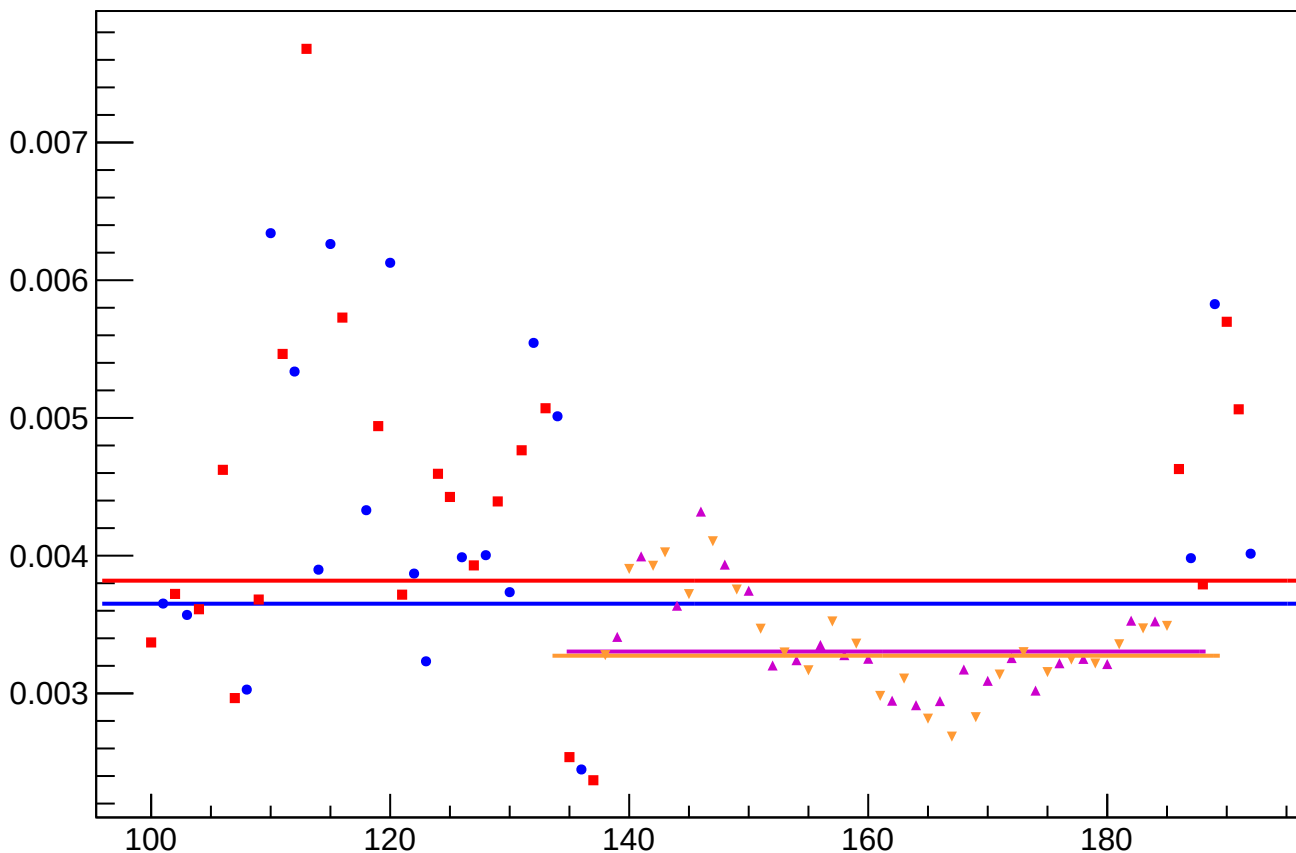
Right: -0.376 ± 0.000 χ^2/NDF : 13763364931.9/42

In: -0.520 ± 0.000 χ^2/NDF : 30235226635.6/42

Out: -0.519 ± 0.000 χ^2/NDF : 35481251549.2/47

All: -0.520 ± 0.000 χ^2/NDF : 65716551336.3/91

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 986043.9/19

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1013595.3/22

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

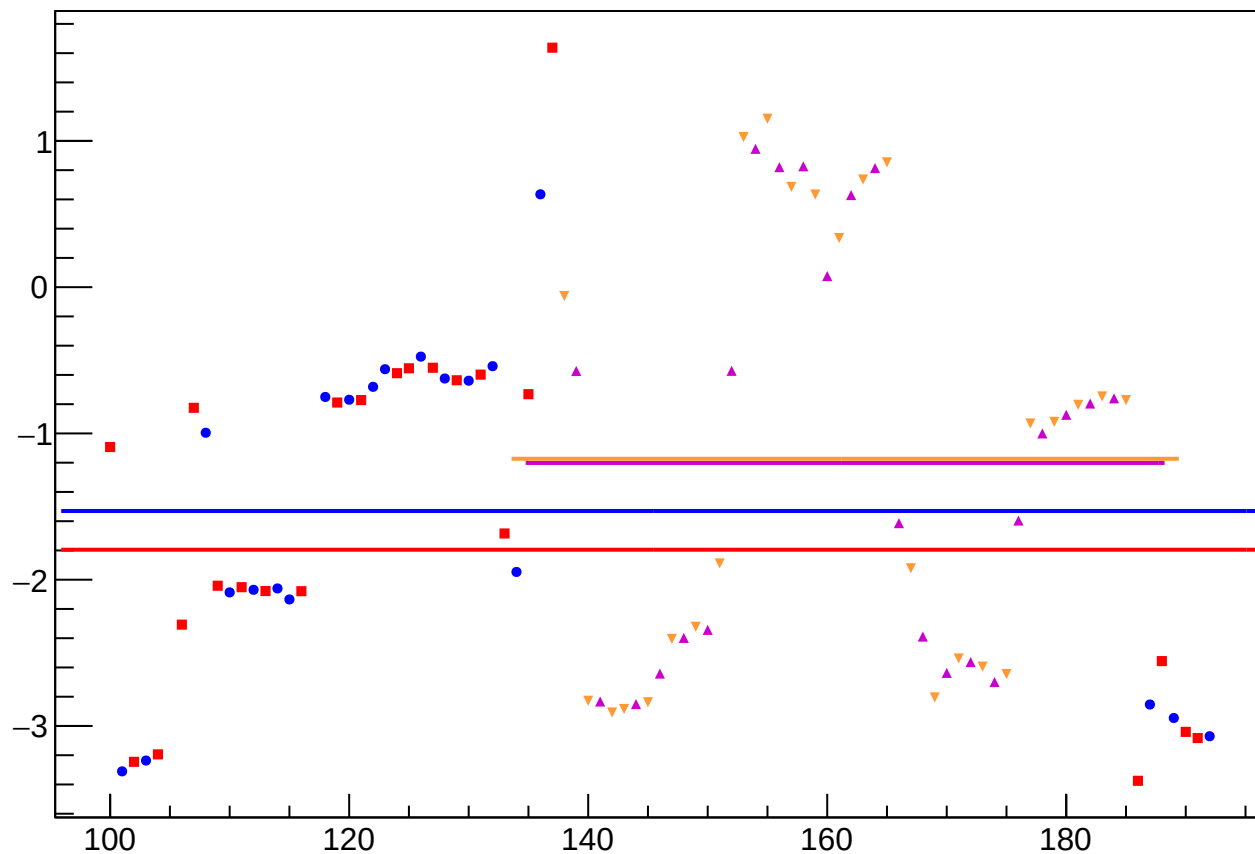
Right: 0.004+/-0.000 χ^2/NDF : 2013941.5/42

In: 0.003+/-0.000 χ^2/NDF : 1363517.9/42

Out: 0.003+/-0.000 χ^2/NDF : 1639402.1/47

All: 0.003+/-0.000 χ^2/NDF : 3003267.8/90

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.530 $\pm$ 0.000 χ^2/NDF : 2734047243.6/19

Left Out: -1.173 $\pm$ 0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.795 $\pm$ 0.000 χ^2/NDF : 2244754669.6/22

Left In: -1.202 $\pm$ 0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187 $\pm$ 0.000 χ^2/NDF : 12490828303.3/47

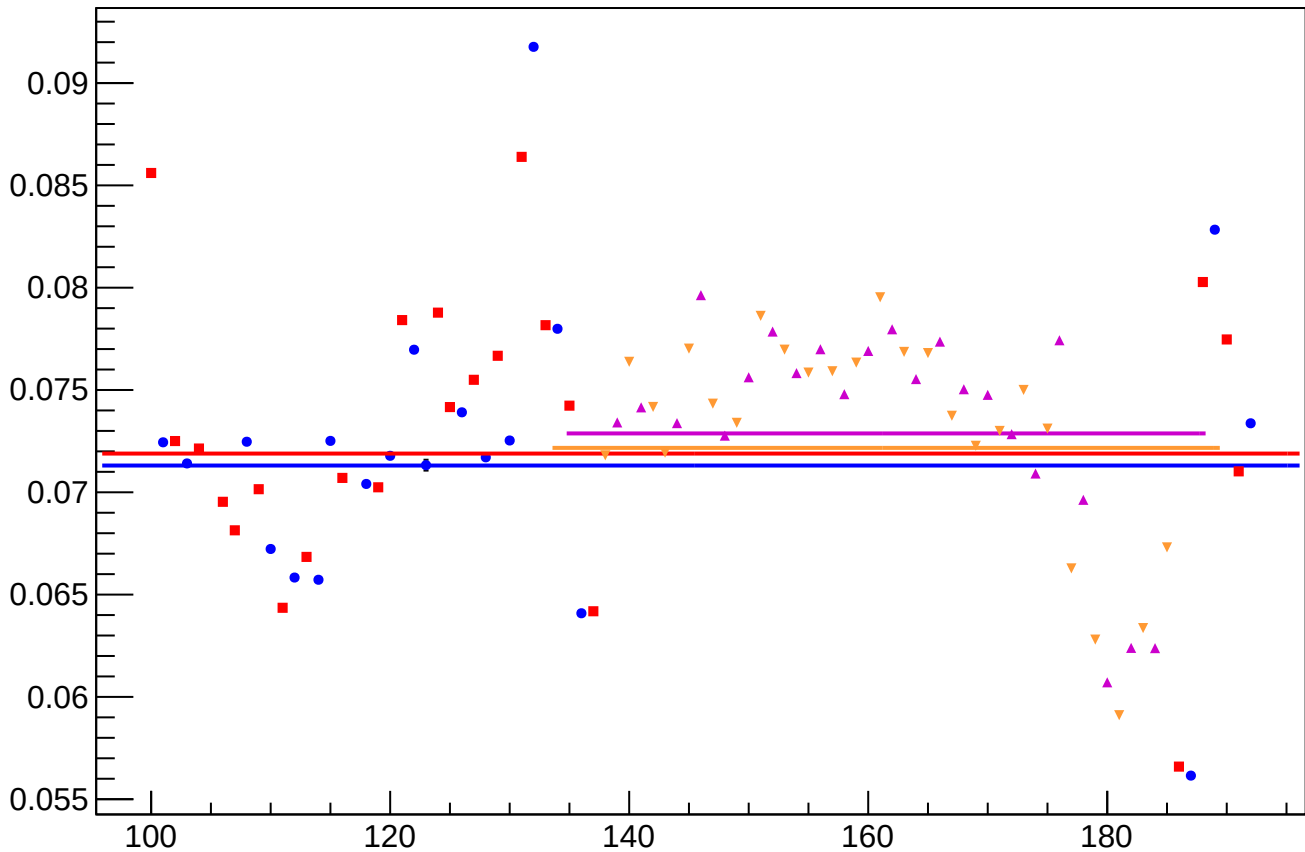
Right: -1.667 $\pm$ 0.000 χ^2/NDF : 5036118979.8/42

In: -1.311 $\pm$ 0.000 χ^2/NDF : 8454889007.5/42

Out: -1.377 $\pm$ 0.000 χ^2/NDF : 9566707074.6/47

All: -1.345 $\pm$ 0.000 χ^2/NDF : 18032611521.3/91

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071 $\pm$ 0.000 χ^2 /NDF: 117374.5/19

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 145518.1/22

Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

Left: 0.073 $\pm$ 0.000 χ^2 /NDF: 407423.5/47

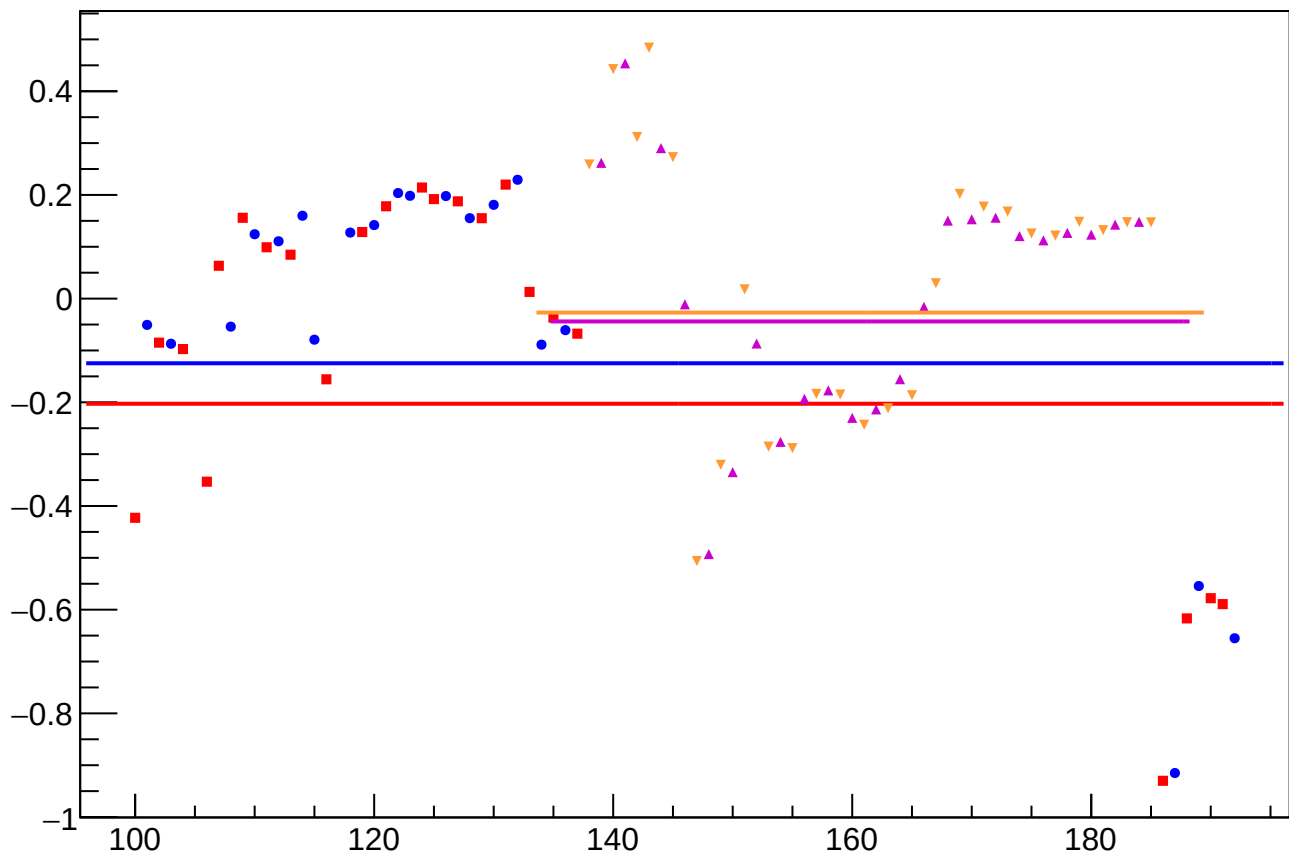
Right: 0.072 $\pm$ 0.000 χ^2 /NDF: 263451.2/42

In: 0.072 $\pm$ 0.000 χ^2 /NDF:306084.1/42

Out: 0.072 $\pm$ 0.000 χ^2 /NDF:367957.5/47

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 674424.0/90

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.125+/-0.000

χ^2/NDF : 5310012494.8/19

Left: -0.035+/-0.000

χ^2/NDF : 36148383394.4/47

Left Out: -0.027+/-0.000

χ^2/NDF : 20376761328.6/24

Right: -0.166+/-0.000

χ^2/NDF : 12621425837.6/42

Right Out: -0.203+/-0.000

χ^2/NDF : 7130015744.6/22

In: -0.055+/-0.000

χ^2/NDF : 21341631322.2/42

Out: -0.052+/-0.000

χ^2/NDF : 29188323315.5/47

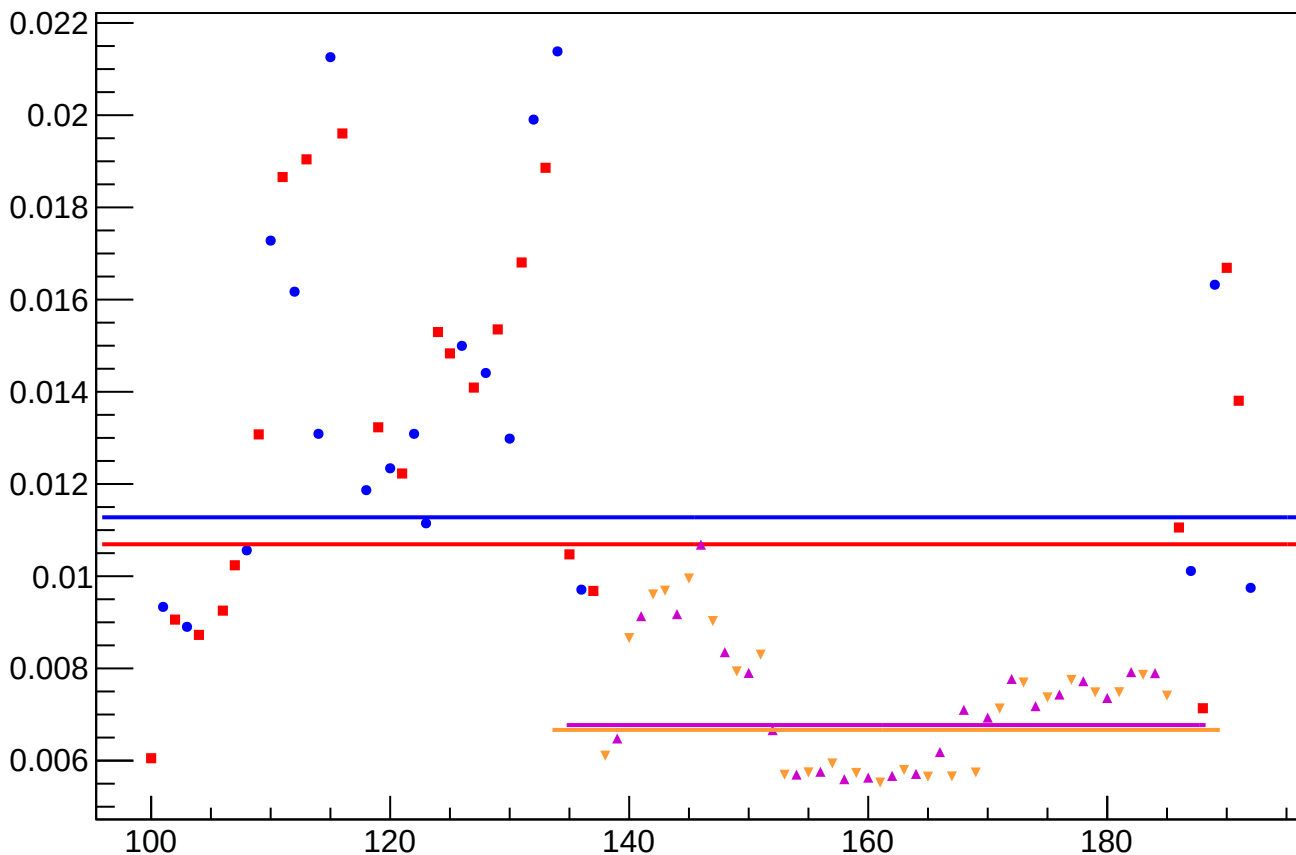
Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

All: -0.054+/-0.000

χ^2/NDF : 50531980432.0/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 807619.4/19

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1506726.8/22

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

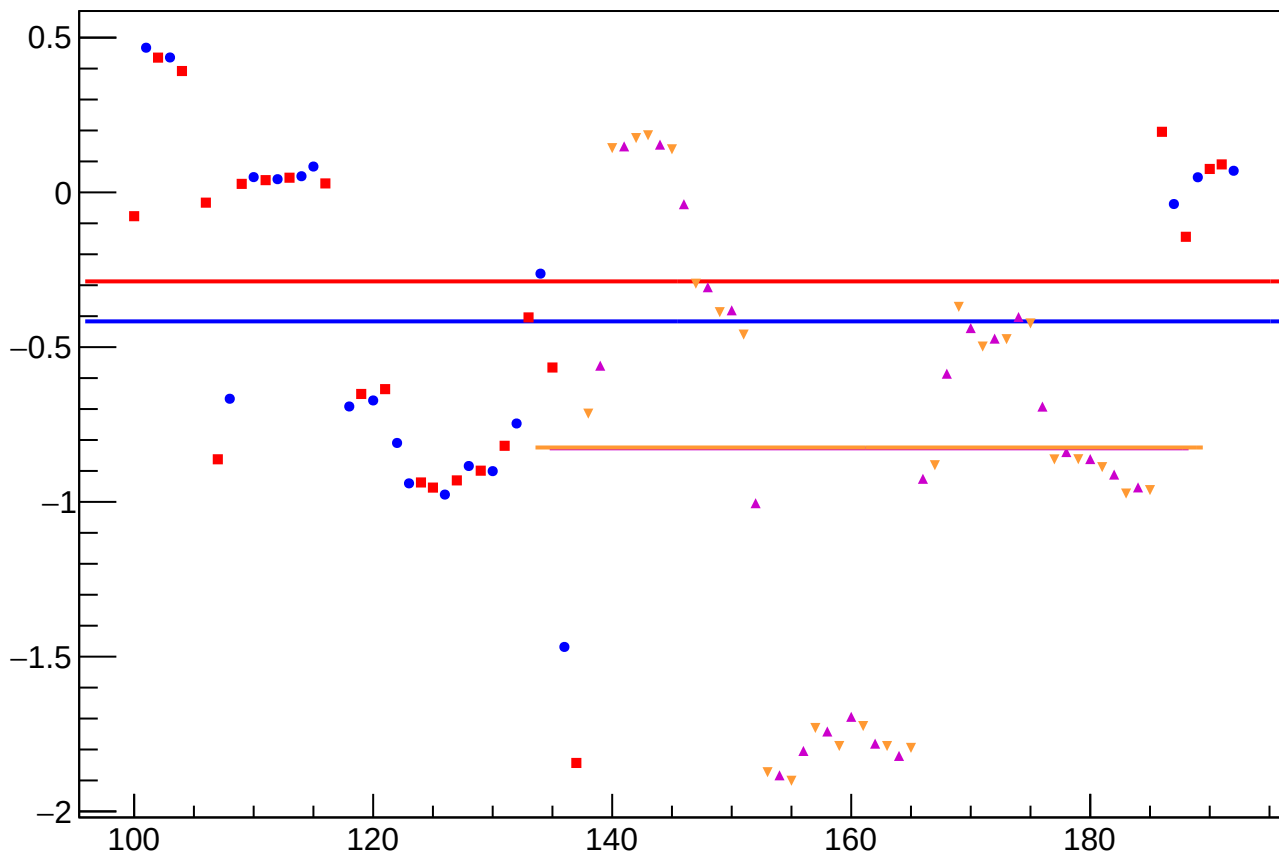
Right: 0.011+/-0.000 χ^2/NDF : 2334702.3/42

In: 0.007+/-0.000 χ^2/NDF :3697178.9/42

Out: 0.007+/-0.000 χ^2/NDF :4413409.9/47

All: 0.007+/-0.000 χ^2/NDF : 8120702.1/90

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 388652744.6/19

Left Out: -0.824+/-0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.288+/-0.000 χ^2/NDF : 307390730.0/22

Left In: -0.827+/-0.000 χ^2/NDF : 921651117.3/22

Left: -0.826+/-0.000 χ^2/NDF : 2025270716.0/47

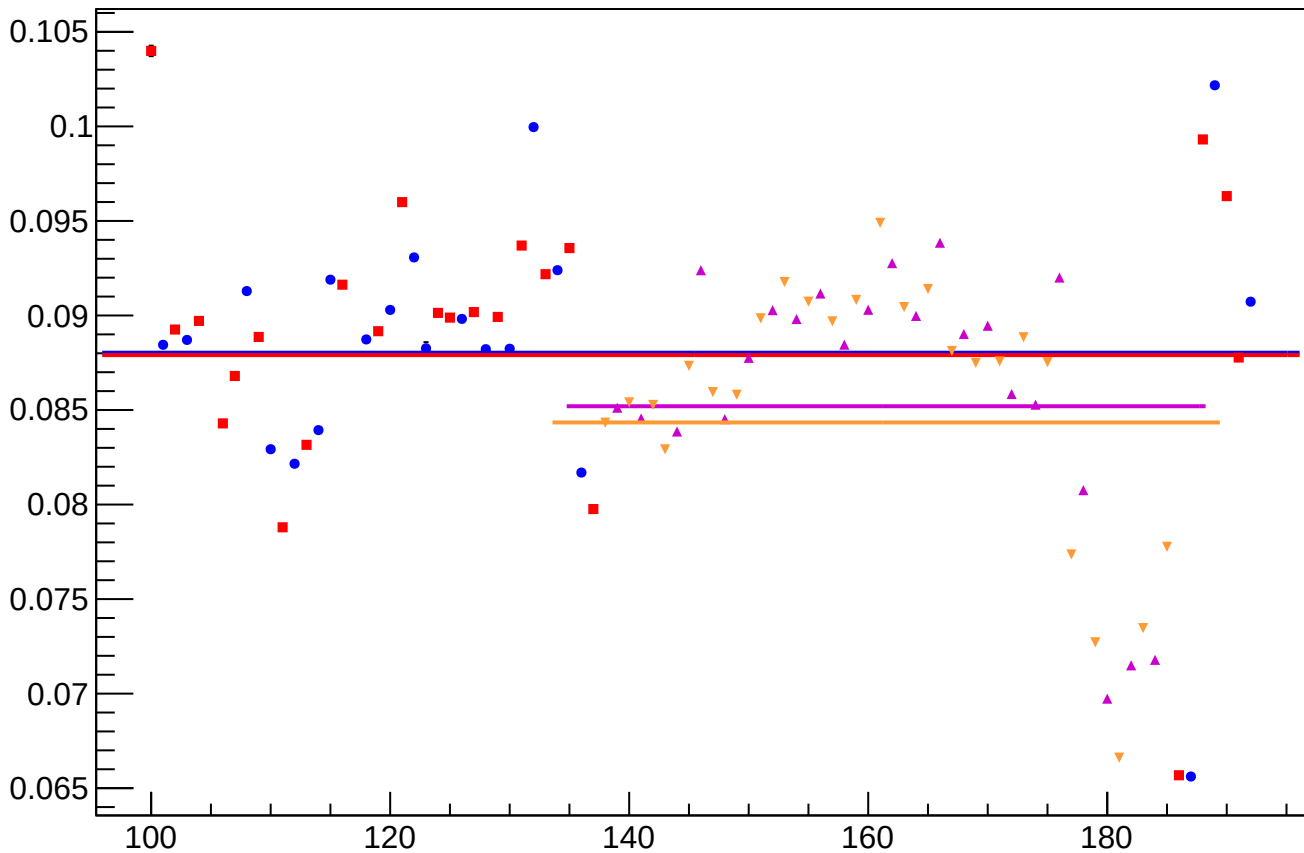
Right: -0.349+/-0.000 χ^2/NDF : 705215712.5/42

In: -0.700+/-0.000 χ^2/NDF : 1432865031.9/42

Out: -0.658+/-0.000 χ^2/NDF : 1639237590.5/47

All: -0.678+/-0.000 χ^2/NDF : 3075303868.0/9

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 89763.9/19

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.088 $\pm$ 0.000 χ^2 /NDF: 155406.7/22

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

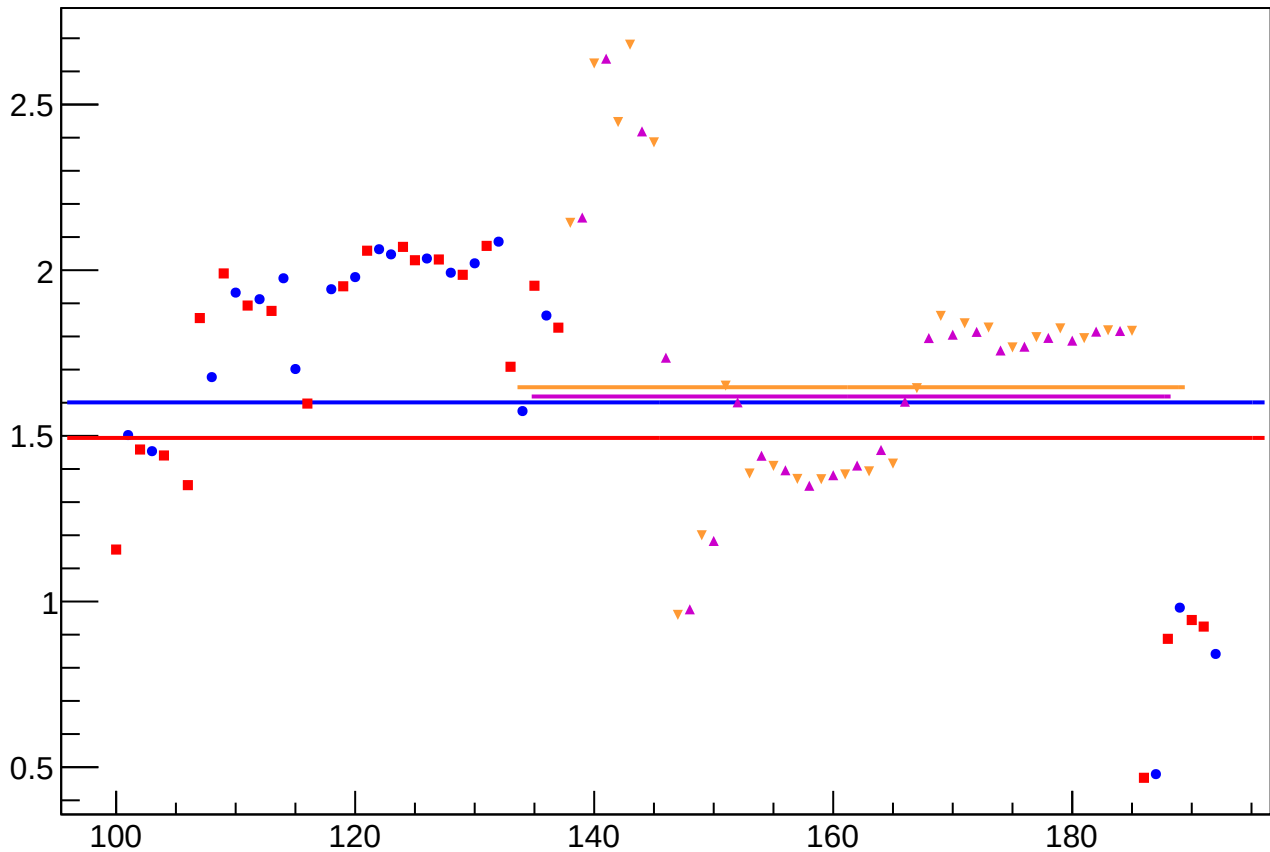
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 245188.1/42

In: 0.086 $\pm$ 0.000 χ^2 /NDF:339758.2/42

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:463827.7/47

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 804980.1/90

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.601 $\pm$ 0.000 χ^2 /NDF: 6443673996.8/19

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.494 $\pm$ 0.000 χ^2 /NDF: 8259516611.4/22

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

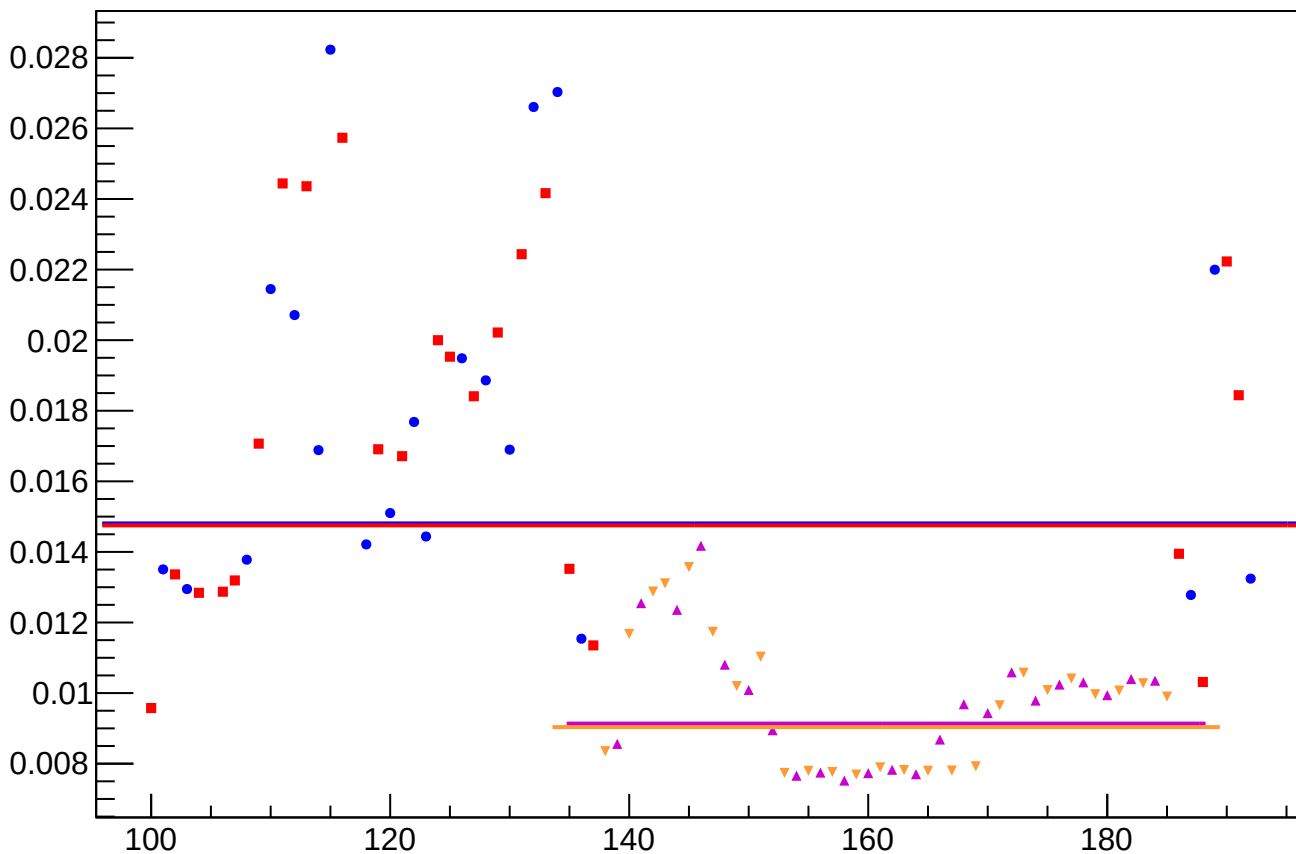
Right: 1.546 $\pm$ 0.000 χ^2 /NDF: 14894578044.4/42

In: 1.616 $\pm$ 0.000 χ^2 /NDF: 27070685175.2/42

Out: 1.625 $\pm$ 0.000 χ^2 /NDF: 35481427265.3/47

All: 1.621 $\pm$ 0.000 χ^2 /NDF: 62561531513.4/95

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 765073.1/19

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1180338.8/22

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

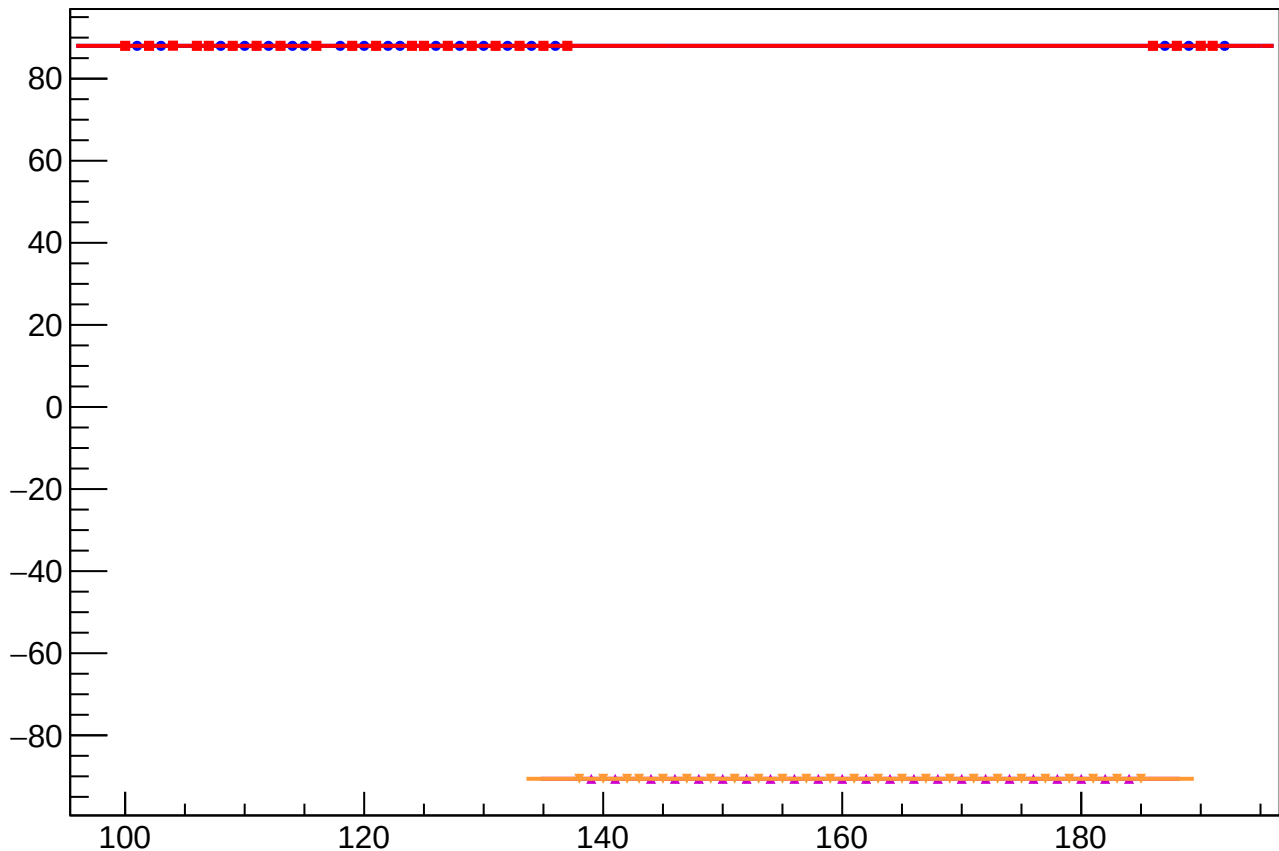
Right: 0.015+/-0.000 χ^2/NDF : 1945515.2/42

In: 0.010+/-0.000 χ^2/NDF :3430025.0/42

Out: 0.010+/-0.000 χ^2/NDF :4139033.1/47

All: 0.010+/-0.000 χ^2/NDF : 7572213.1/90

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 2372893.6/19

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.003+/-0.000 χ^2/NDF : 78789097638526254146188738560.0/22

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

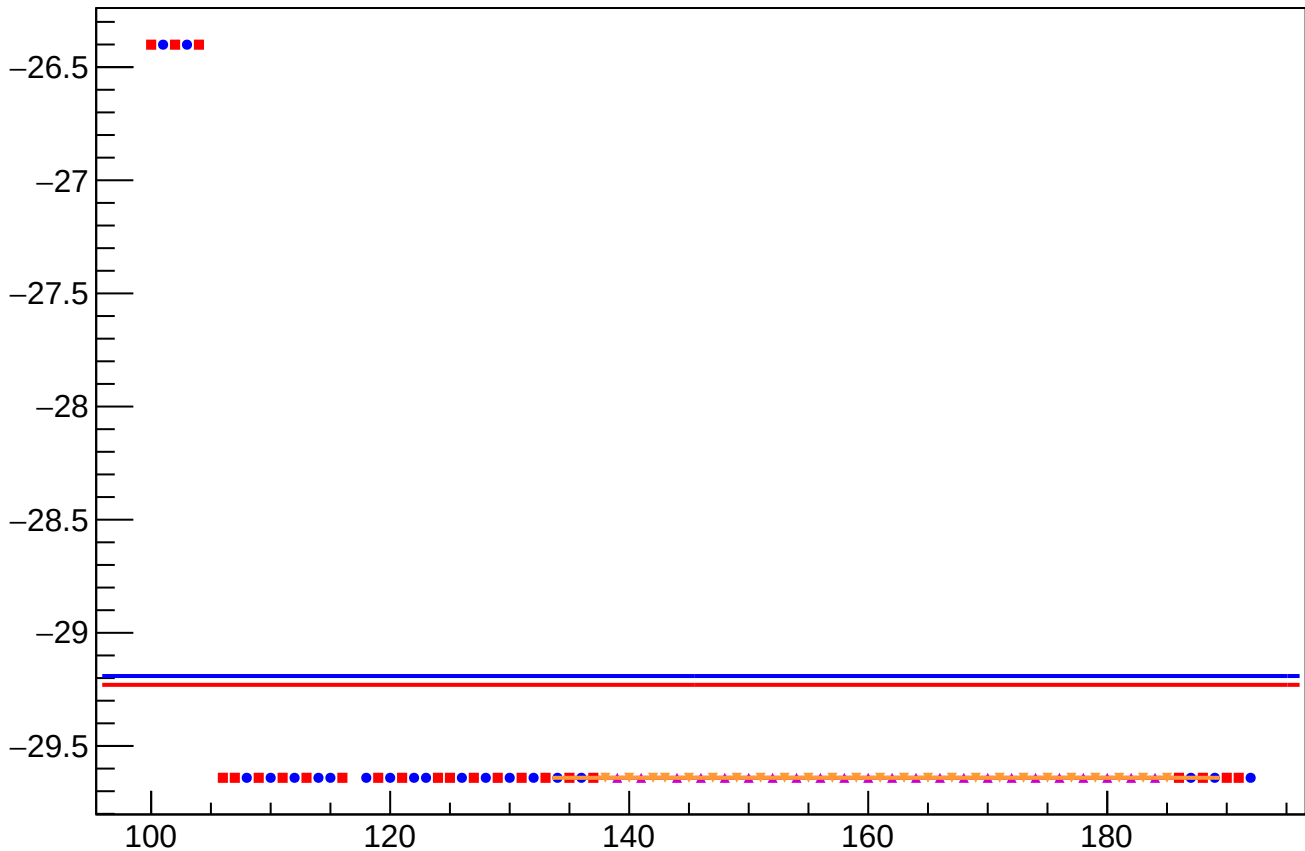
Right: 88.002+/-0.000 χ^2/NDF : 8102883335793209

In: -33.226+/-0.000 χ^2/NDF : 18403411086923635

Out: -32.649+/-0.000 χ^2/NDF : 1971700020242409

All: -32.928+/-0.000 χ^2/NDF : 381208663079

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.191+/-0.000

χ^2/NDF : 1066753761882362033178054492160000.0/19

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.230+/-0.000

χ^2/NDF : 1063343779672136362954024630091776.0/22

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

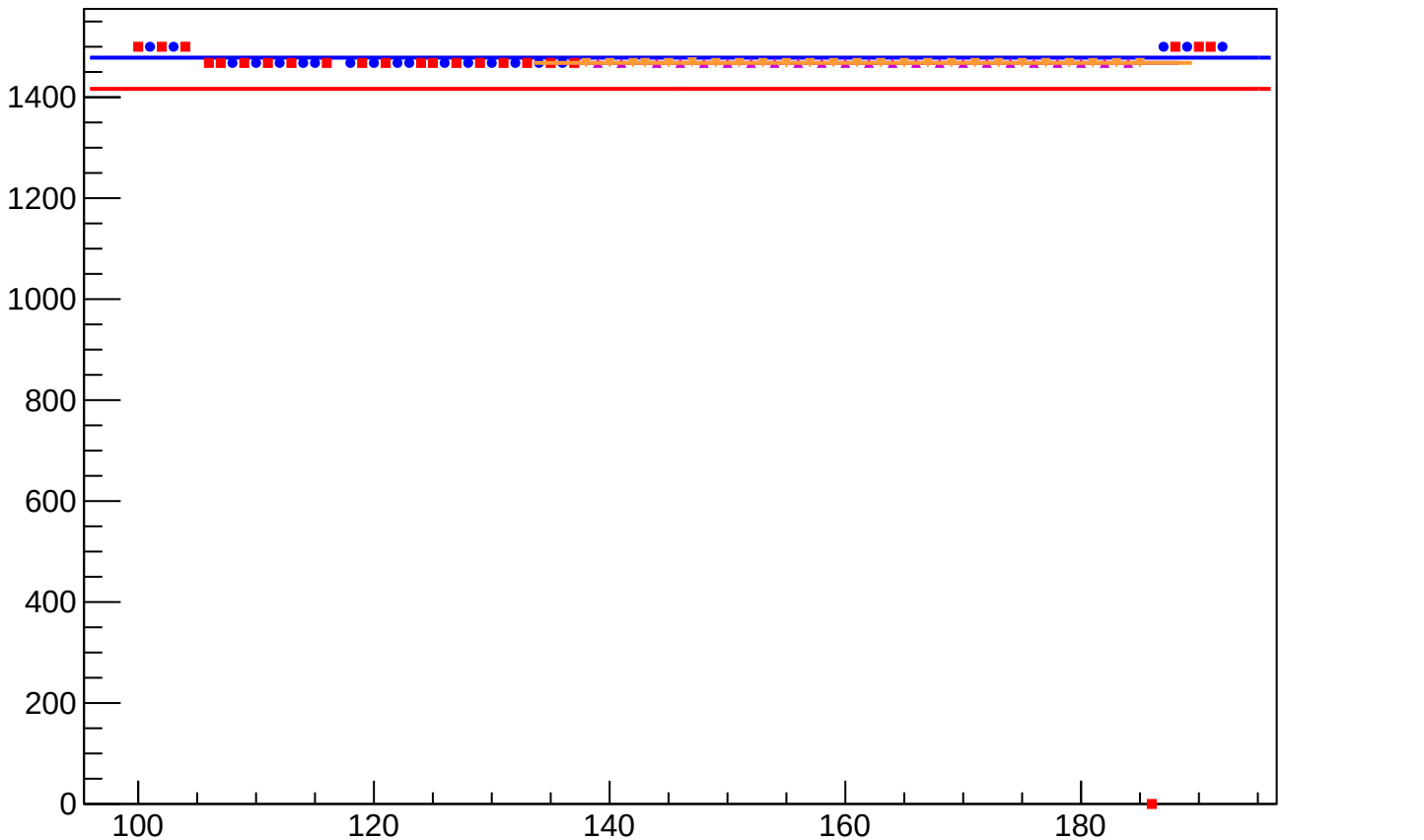
Right: -29.211+/-0.000 χ^2/NDF : 213076894640227.0/19

In: -29.496+/-0.000 χ^2/NDF : 11834754612244765.0/19

Out: -29.507+/-0.000 χ^2/NDF : 1167630924255294.0/19

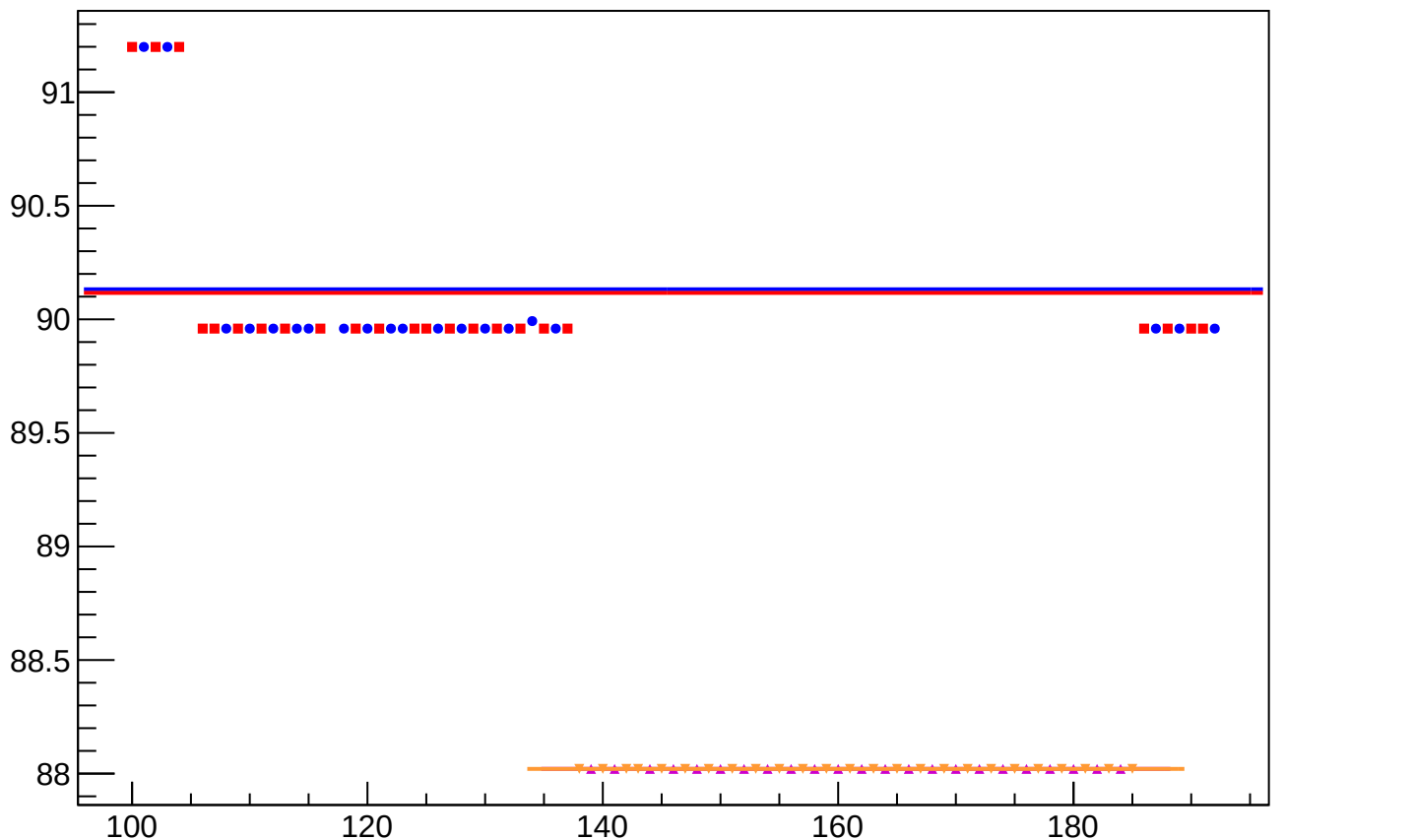
All: -29.502+/-0.000 χ^2/NDF : 235127802941.0/19

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1478.415+/-0.000 χ^2/NDF : 191468028823888560735456011933974528.0/19
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1416.568+/-0.000 χ^2/NDF : 79749059554397743060798330225043701760.0/22
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1461.025+/-0.000 χ^2/NDF : 82187267387

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.132+/-0.000

χ^2/NDF : 156032531019081029898158829731840.0/19

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.124+/-0.000 χ^2/NDF : 3118915540567013

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.116+/-0.000

χ^2/NDF : 155749637595660180966002632163328.0/22

Left In: 88.021+/-0.000

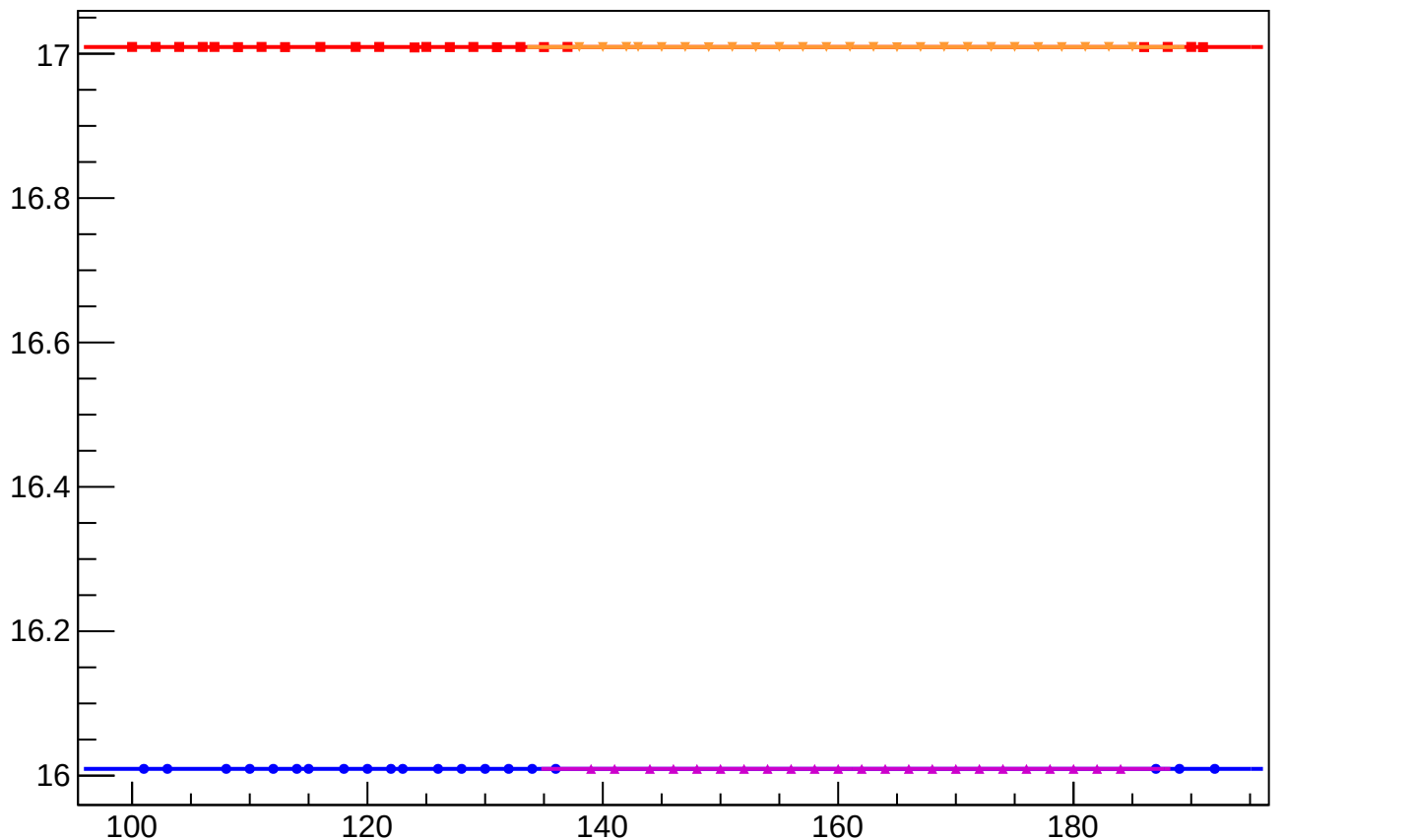
χ^2/NDF : 6257169.0/22

In: 88.699+/-0.000 χ^2/NDF : 27284339881543698

Out: 88.701+/-0.000 χ^2/NDF : 28707191271917918

All: 88.700+/-0.000 χ^2/NDF : 5599157083499

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 114063.0/19

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 15226959493261890561245184.0/22

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

Left: 16.524 $\pm$ 0.000 χ^2 /NDF: 85855870772921272

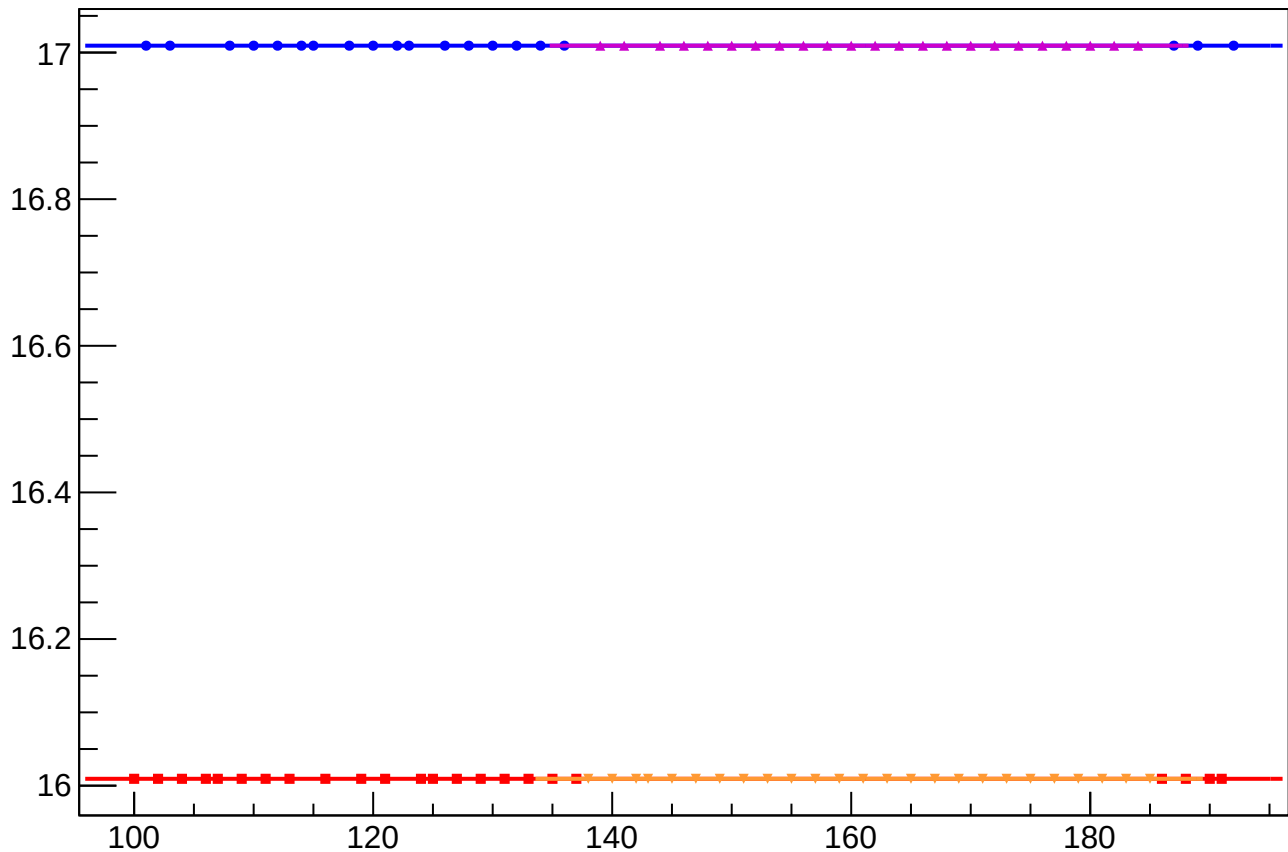
Right: 16.518 $\pm$ 0.000 χ^2 /NDF: 4162913150024596

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129847436746439134

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 41675203025127394

All: 16.522 $\pm$ 0.000 χ^2 /NDF: 1274888012889

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 198868.7/19

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 213825.5/22

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114986101427233622065152.0/22

Left: 16.491 $\pm$ 0.000 χ^2 /NDF: 90683349233974458

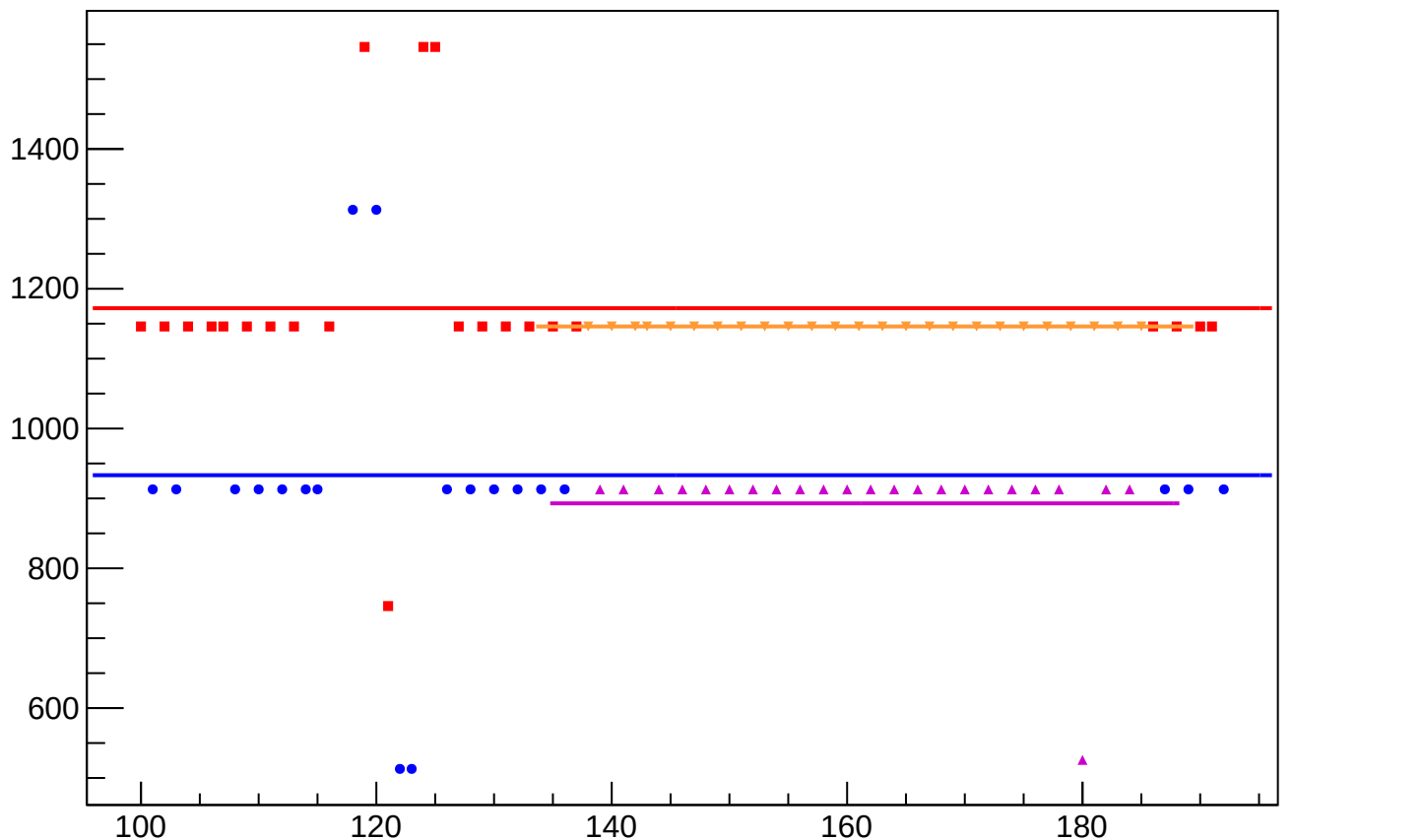
Right: 16.483 $\pm$ 0.000 χ^2 /NDF: 4303267670915232

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116761938446911377

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 498295.0/47

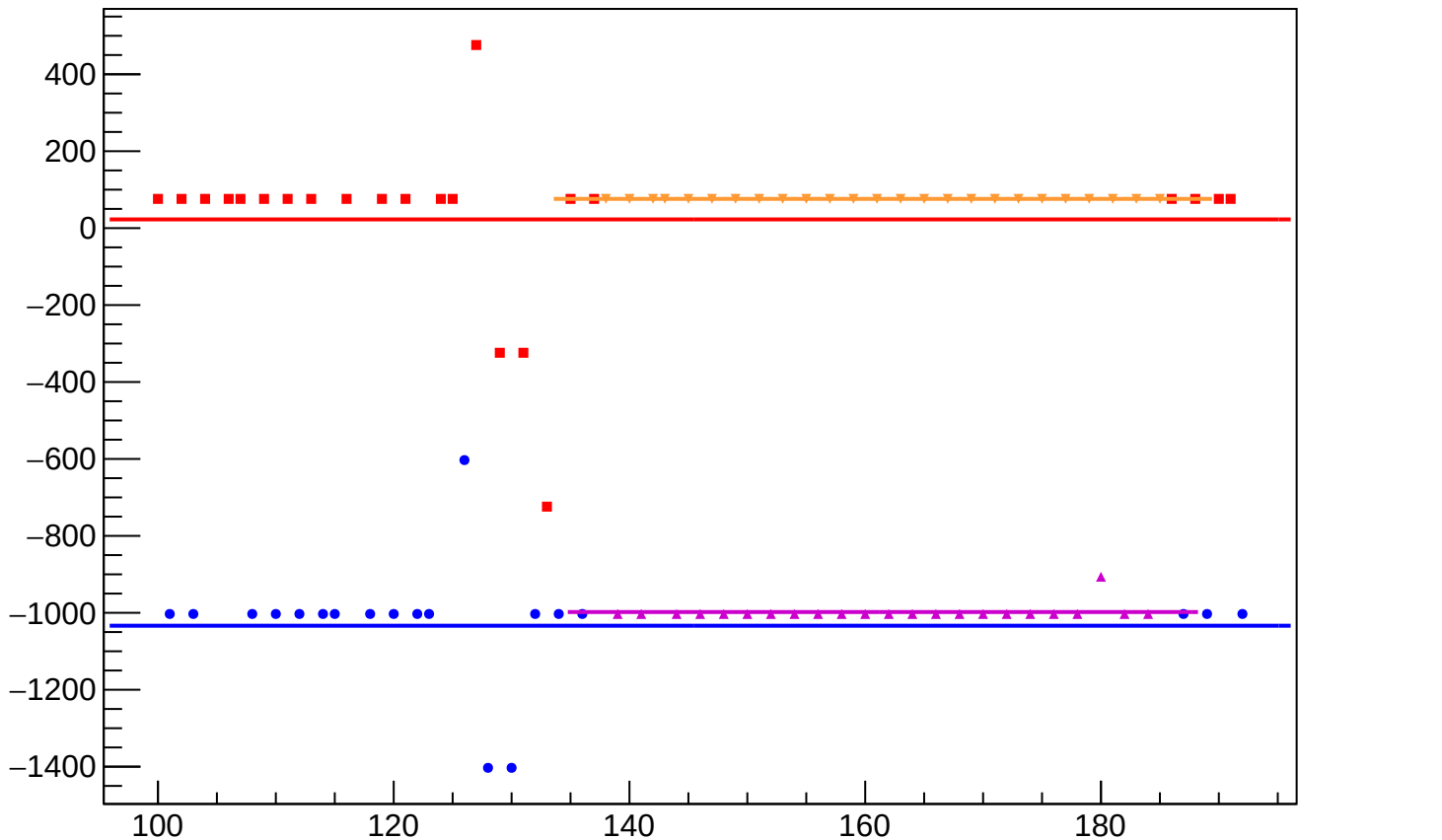
All: 16.489 $\pm$ 0.000 χ^2 /NDF: 1337238441468

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1023.207 $\pm$ 0.000 χ^2/NDF : 724152114185977
 Right In: 933.230 $\pm$ 0.000 χ^2/NDF : 20933291733432367671964991969506099200.0/19
 Right: 1057.136 $\pm$ 0.000 χ^2/NDF : 67556864802652
 Left Out: 1146.011 $\pm$ 0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 In: 905.890 $\pm$ 0.000 χ^2/NDF : 35083227688817973
 Right Out: 1172.239 $\pm$ 0.000 χ^2/NDF : 21451208460825940475473257963423006720.0/22
 Out: 1154.521 $\pm$ 0.000 χ^2/NDF : 218764238898395
 Left In: 892.950 $\pm$ 0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1034.163 $\pm$ 0.000 χ^2/NDF : 14134779083

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1033.578+/-0.000 χ^2/NDF : 22404361345744756860287620110348189696.0/19
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: 22.677+/-0.000 χ^2/NDF : 44437041410482396857841751146840981504.0/22
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -458.354+/-0.000 χ^2/NDF : 16275903928