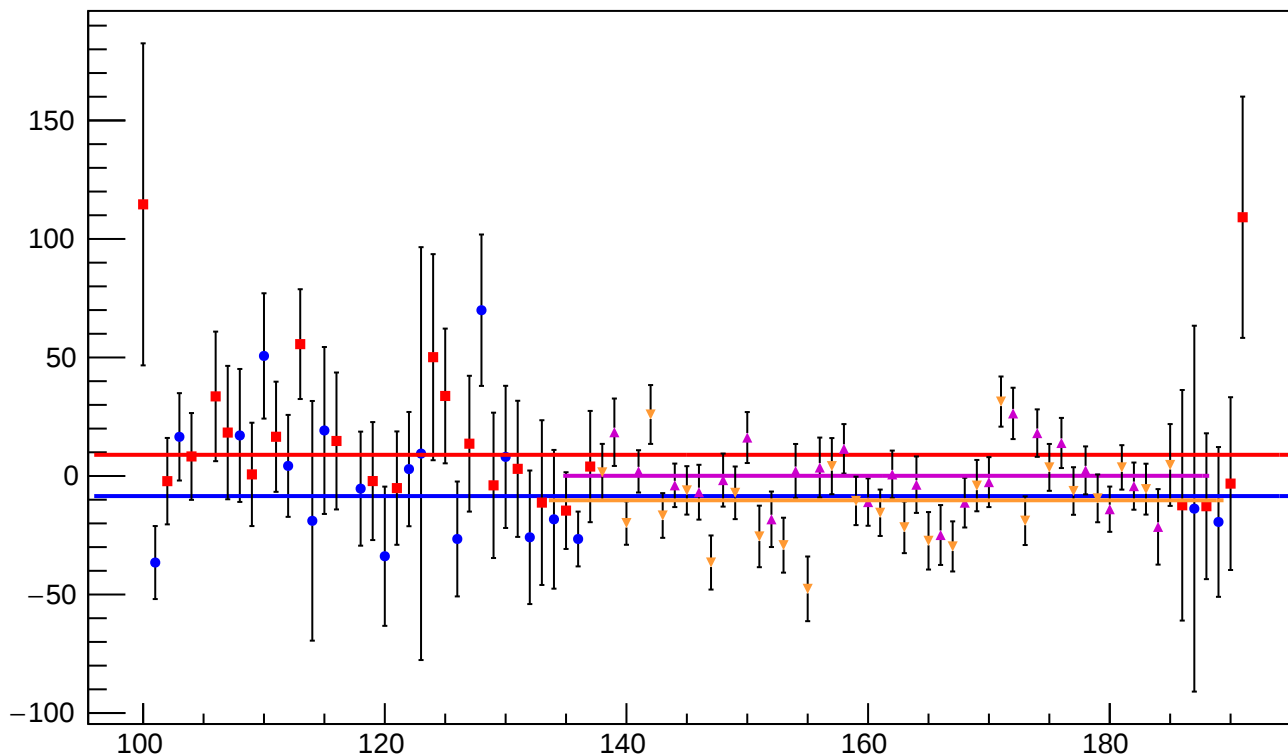


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.470 ± 5.519

$\chi^2/\text{NDF}: 23.0/18$

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: 0.325 ± 3.882

$\chi^2/\text{NDF}: 45.7/41$

In: -1.139 ± 2.084

$\chi^2/\text{NDF}: 54.9/41$

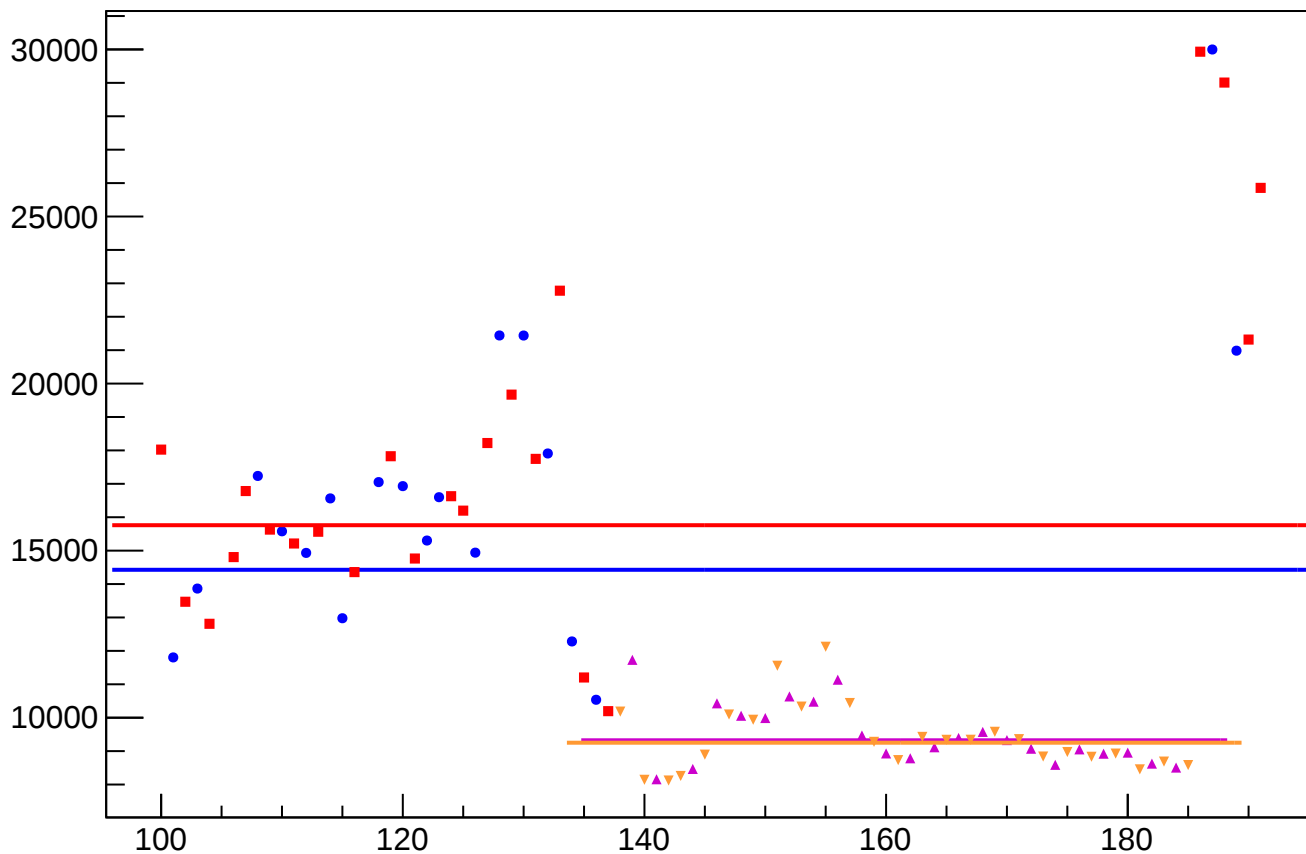
Out: -7.623 ± 2.017

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

All: -4.487 ± 1.449

$\chi^2/\text{NDF}: 146.4/89$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14427.000 $\pm$ 3.902 χ^2 /NDF: 775923.0/18

Left Out: 9251.811 $\pm$ 1.535 χ^2 /NDF: 332323.3/24

Right Out: 15761.271 $\pm$ 3.861 χ^2 /NDF: 1190675.8/22

Left In: 9323.983 $\pm$ 1.591 χ^2 /NDF: 275717.0/22

Left: 9286.587 $\pm$ 1.105 χ^2 /NDF: 609106.1/47

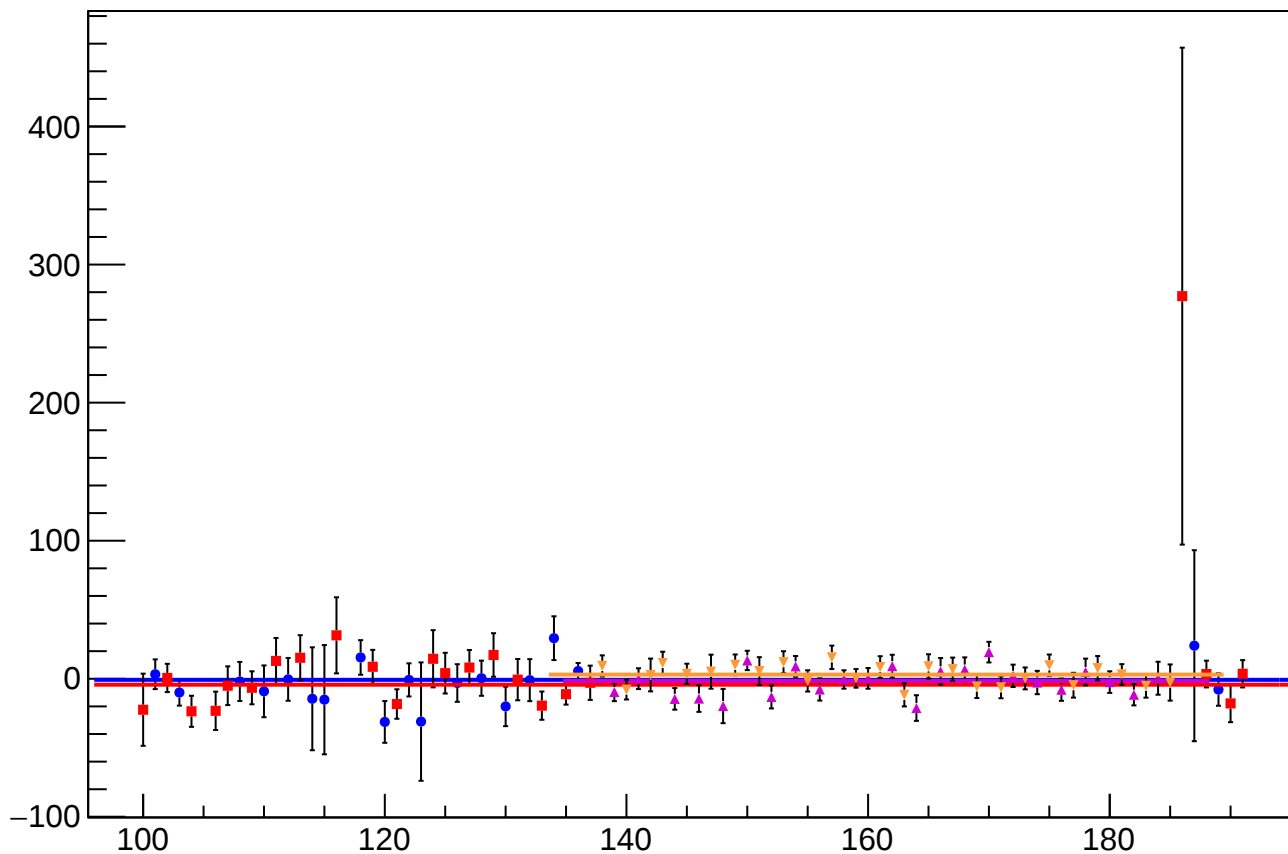
Right: 15101.152 $\pm$ 2.745 χ^2 /NDF: 2025671.7/41

In: 10051.665 $\pm$ 1.474 χ^2 /NDF: 2517947.1/41

Out: 10139.709 $\pm$ 1.426 χ^2 /NDF: 3977279.9/47

All: 10097.128 $\pm$ 1.025 χ^2 /NDF: 6497070.5/8

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.751 ± 2.973 χ^2/NDF : 14.9/18

Left Out: 3.027 ± 1.661 χ^2/NDF : 18.6/24

Right Out: -4.275 ± 2.655 χ^2/NDF : 24.3/22

Left In: -1.588 ± 1.703 χ^2/NDF : 35.5/22

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

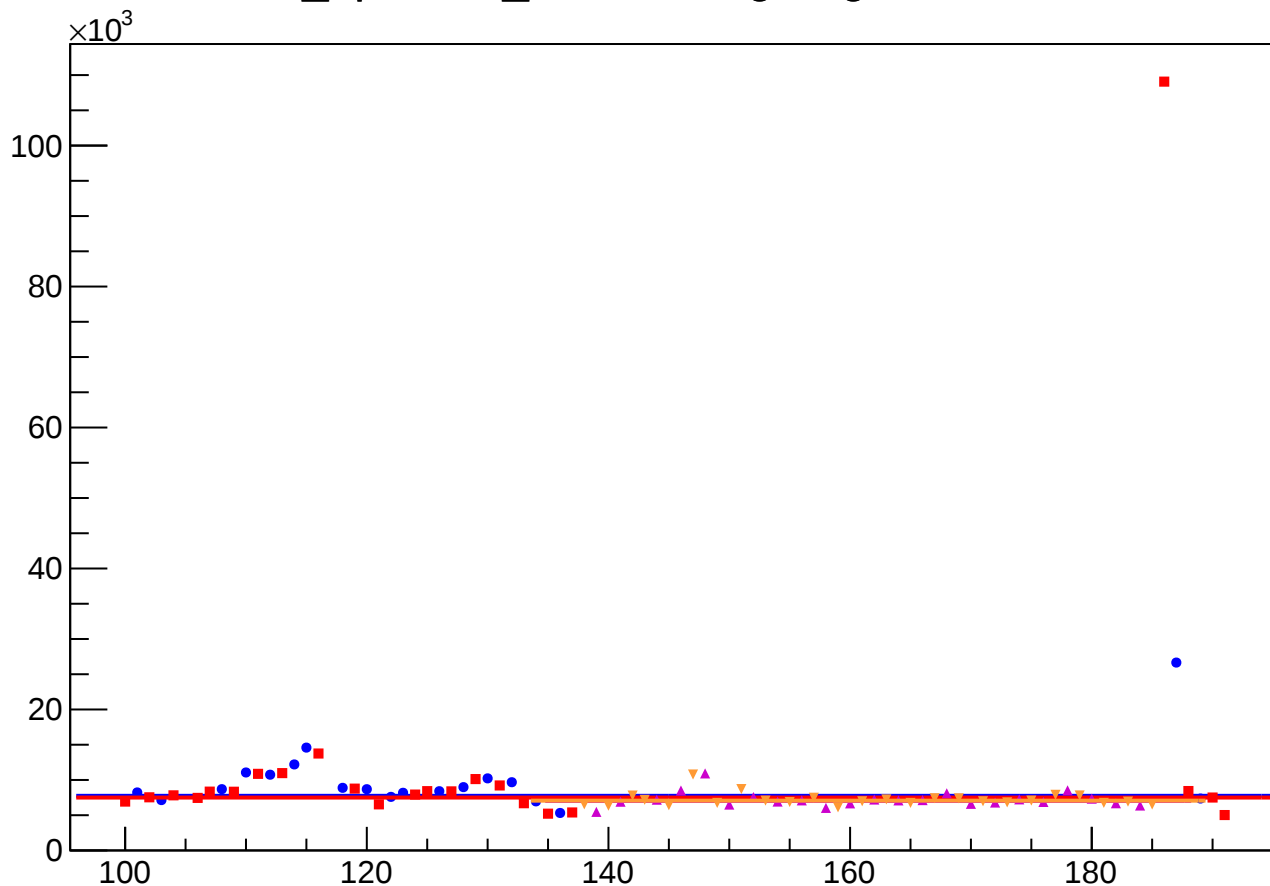
Right: -2.712 ± 1.980 χ^2/NDF : 40.1/41

In: -1.382 ± 1.478 χ^2/NDF : 50.5/41

Out: 0.974 ± 1.408 χ^2/NDF : 48.4/47

All: -0.147 ± 1.019 χ^2/NDF : 100.2/89

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7749.938 $\pm$ 2.102 χ^2/NDF : 892577.0/18

Left Out: 7064.457 $\pm$ 1.174 χ^2/NDF : 386814.9/24

Right Out: 7504.555 $\pm$ 1.877 χ^2/NDF : 1467063.0/22

Left In: 7014.572 $\pm$ 1.204 χ^2/NDF : 525313.7/22

Left: 7040.137 $\pm$ 0.841 χ^2/NDF : 913008.5/47

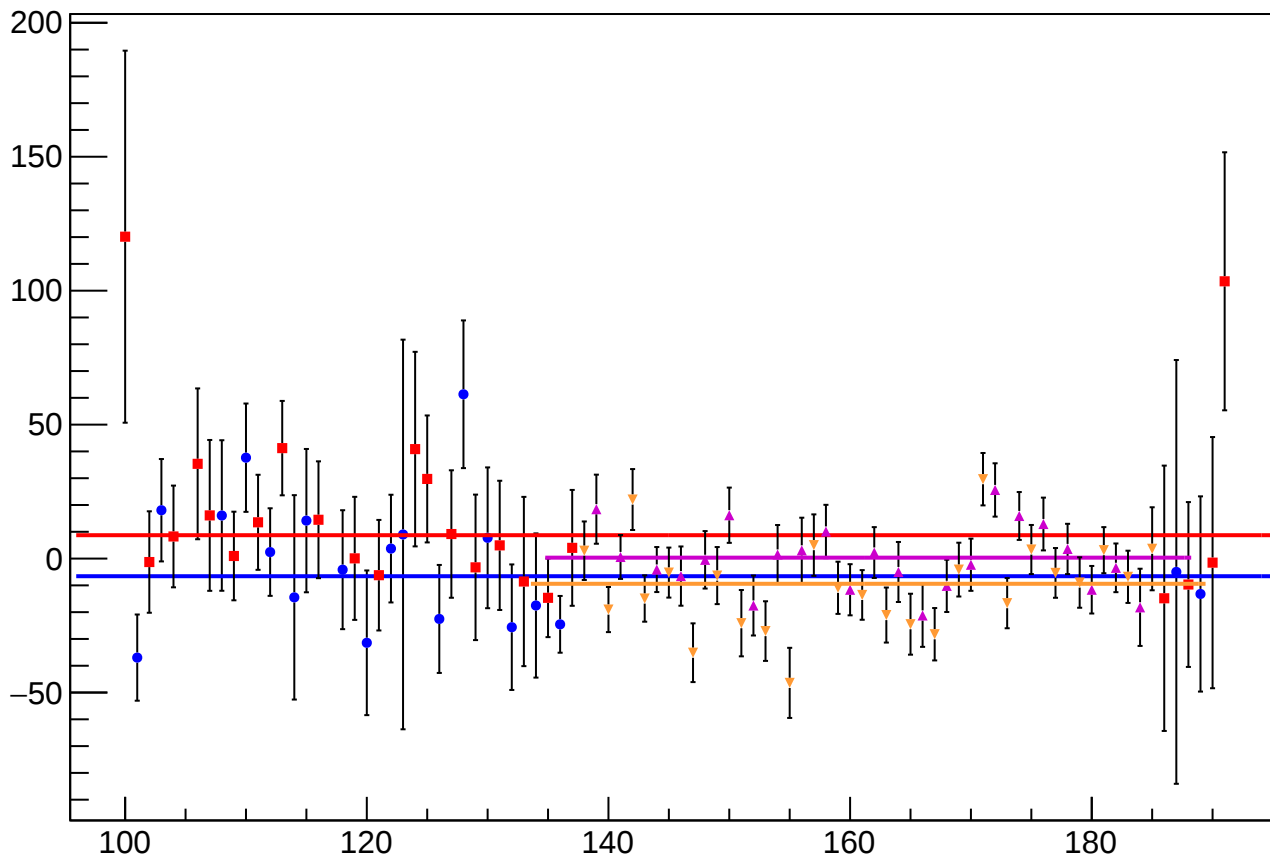
Right: 7613.408 $\pm$ 1.400 χ^2/NDF : 2367218.9/41

In: 7196.151 $\pm$ 1.045 χ^2/NDF : 1510016.4/41

Out: 7188.213 $\pm$ 0.996 χ^2/NDF : 1893380.7/47

All: 7191.990 $\pm$ 0.721 χ^2/NDF : 3403427.4/89

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.583 ± 4.971 $\chi^2/\text{NDF}: 23.5/18$

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 $\chi^2/\text{NDF}: 99.9/47$

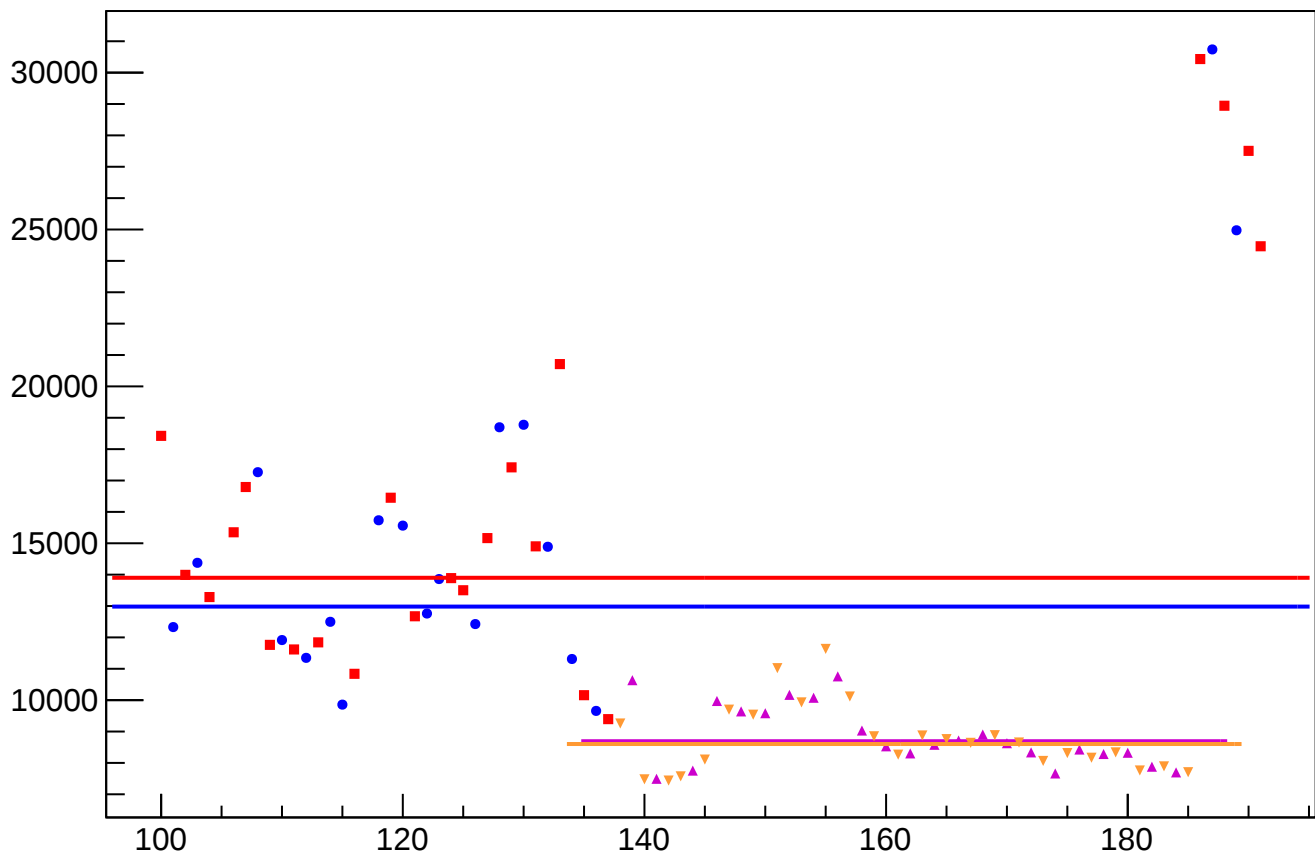
Right: 1.234 ± 3.478 $\chi^2/\text{NDF}: 45.8/41$

In: -0.705 ± 1.935 $\chi^2/\text{NDF}: 55.1/41$

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

All: -3.833 ± 1.343 $\chi^2/\text{NDF}: 148.2/89$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12982.065+/-3.515 χ^2/NDF : 883264.5/18

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

Right Out: 13900.052+/-3.442 χ^2/NDF : 1520893.8/22

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

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

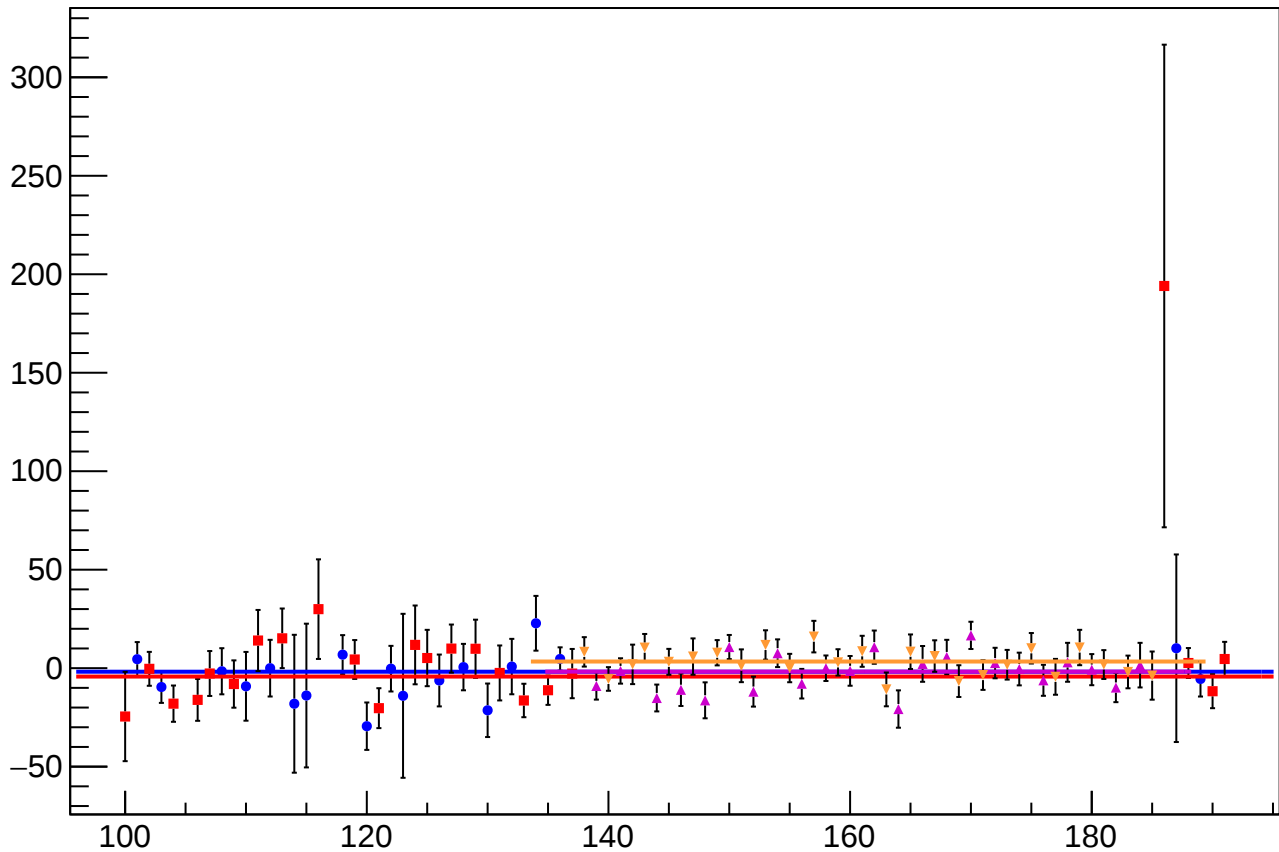
Right: 13450.775+/-2.459 χ^2/NDF : 2438976.3/41

In: 9341.163+/-1.368 χ^2/NDF : 2512724.2/41

Out: 9381.287+/-1.320 χ^2/NDF : 3980728.3/47

All: 9361.946+/-0.950 χ^2/NDF : 6493898.0/89

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.799 $\pm$ 2.663 χ^2/NDF : 15.0/18

Left Out: 3.374 $\pm$ 1.552 χ^2/NDF : 17.2/24

Right Out: -4.261 $\pm$ 2.312 χ^2/NDF : 24.3/22

Left In: -1.756 $\pm$ 1.607 χ^2/NDF : 33.5/22

Left: 0.899 $\pm$ 1.116 χ^2/NDF : 56.0/47

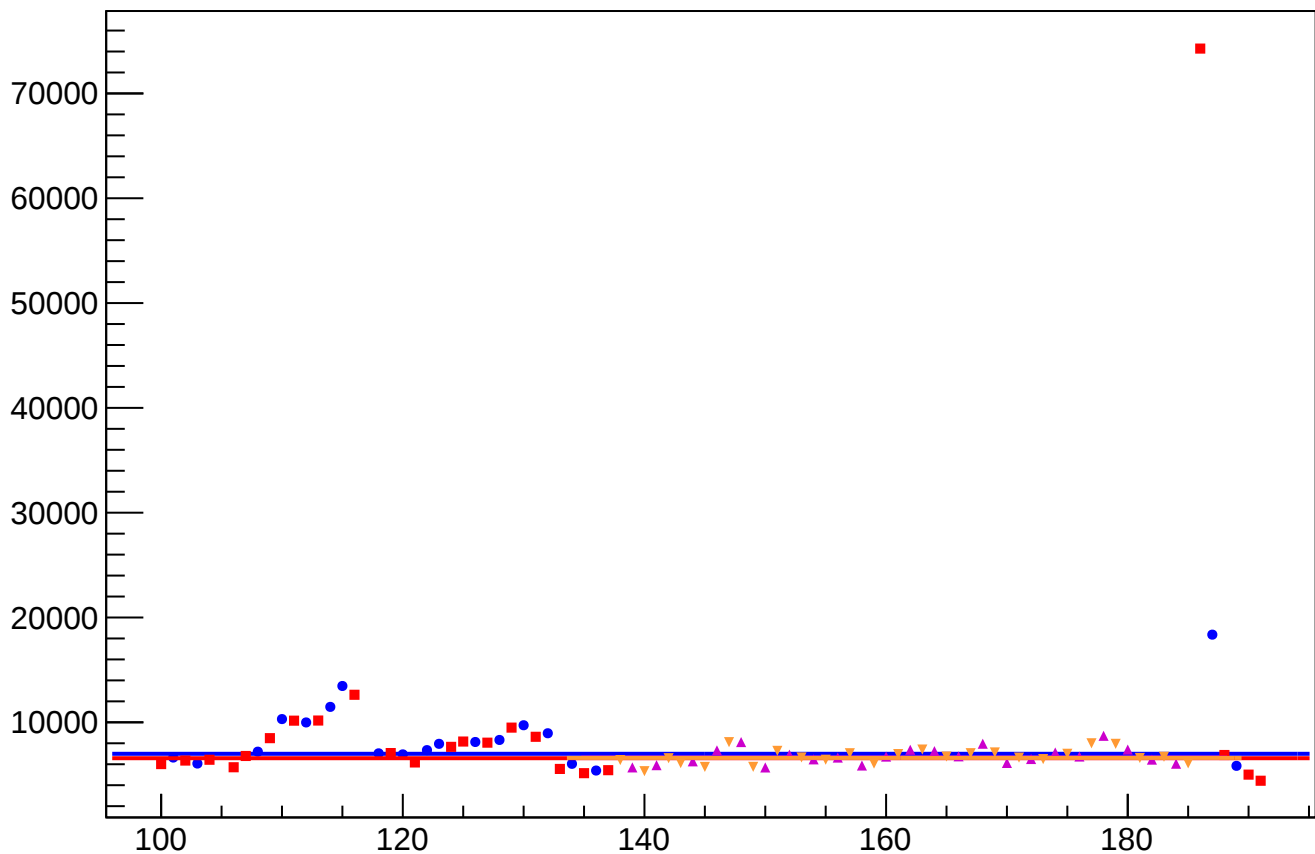
Right: -3.203 $\pm$ 1.746 χ^2/NDF : 39.7/41

In: -1.767 $\pm$ 1.376 χ^2/NDF : 48.5/41

Out: 1.003 $\pm$ 1.289 χ^2/NDF : 49.0/47

All: -0.291 $\pm$ 0.940 χ^2/NDF : 99.6/89

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6996.304 ± 1.883 $\chi^2/\text{NDF}: 749530.5/18$

Left Out: 6603.953 ± 1.097 $\chi^2/\text{NDF}: 395247.5/24$

Right Out: 6574.642 ± 1.635 $\chi^2/\text{NDF}: 1512263.2/22$

Left In: 6637.155 ± 1.136 $\chi^2/\text{NDF}: 415547.5/22$

Left: 6619.974 ± 0.789 $\chi^2/\text{NDF}: 811236.9/47$

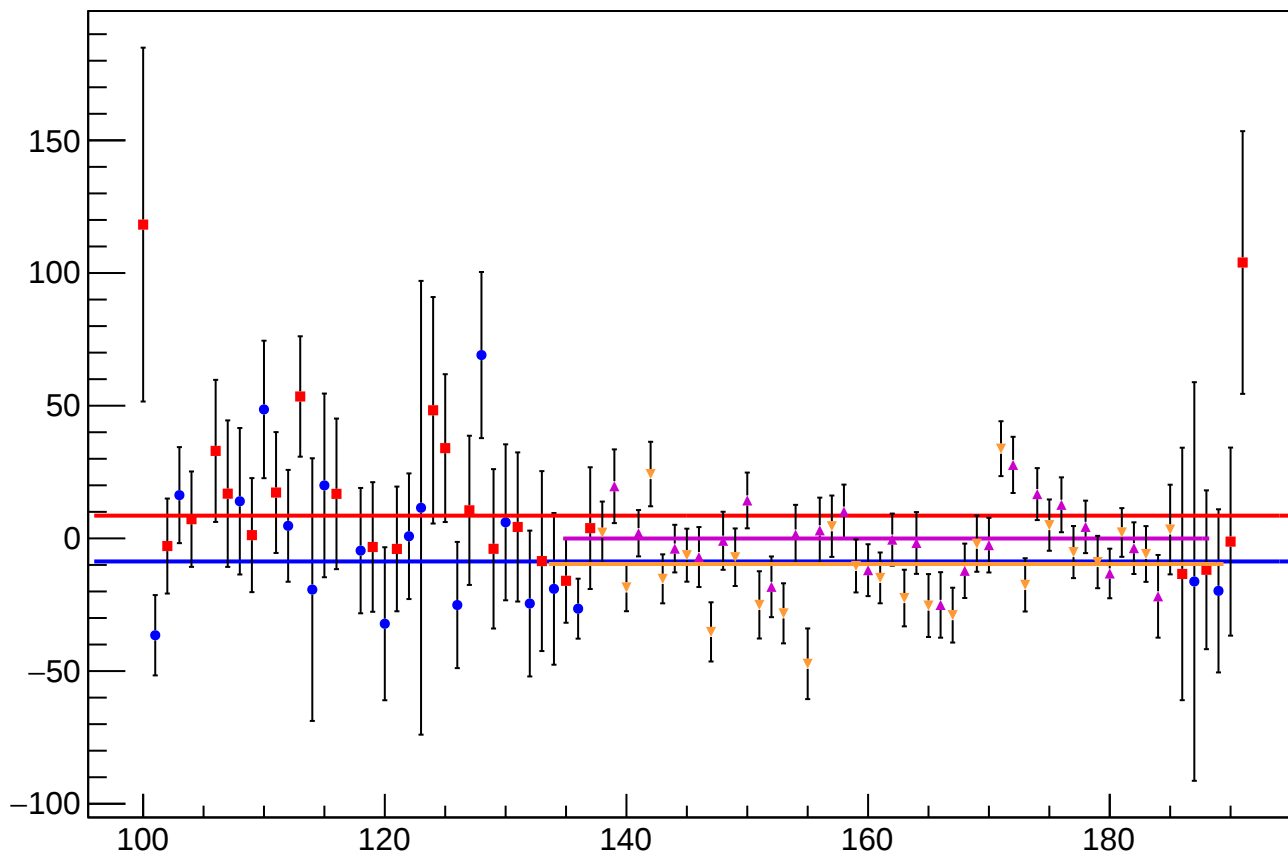
Right: 6755.902 ± 1.235 $\chi^2/\text{NDF}: 2290384.8/41$

In: 6733.035 ± 0.973 $\chi^2/\text{NDF}: 1191746.8/41$

Out: 6594.851 ± 0.911 $\chi^2/\text{NDF}: 1907732.3/47$

All: 6659.418 ± 0.665 $\chi^2/\text{NDF}: 3110226.7/89$

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.688 ± 5.407 $\chi^2/\text{NDF}: 22.9/18$

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 $\chi^2/\text{NDF}: 100.5/47$

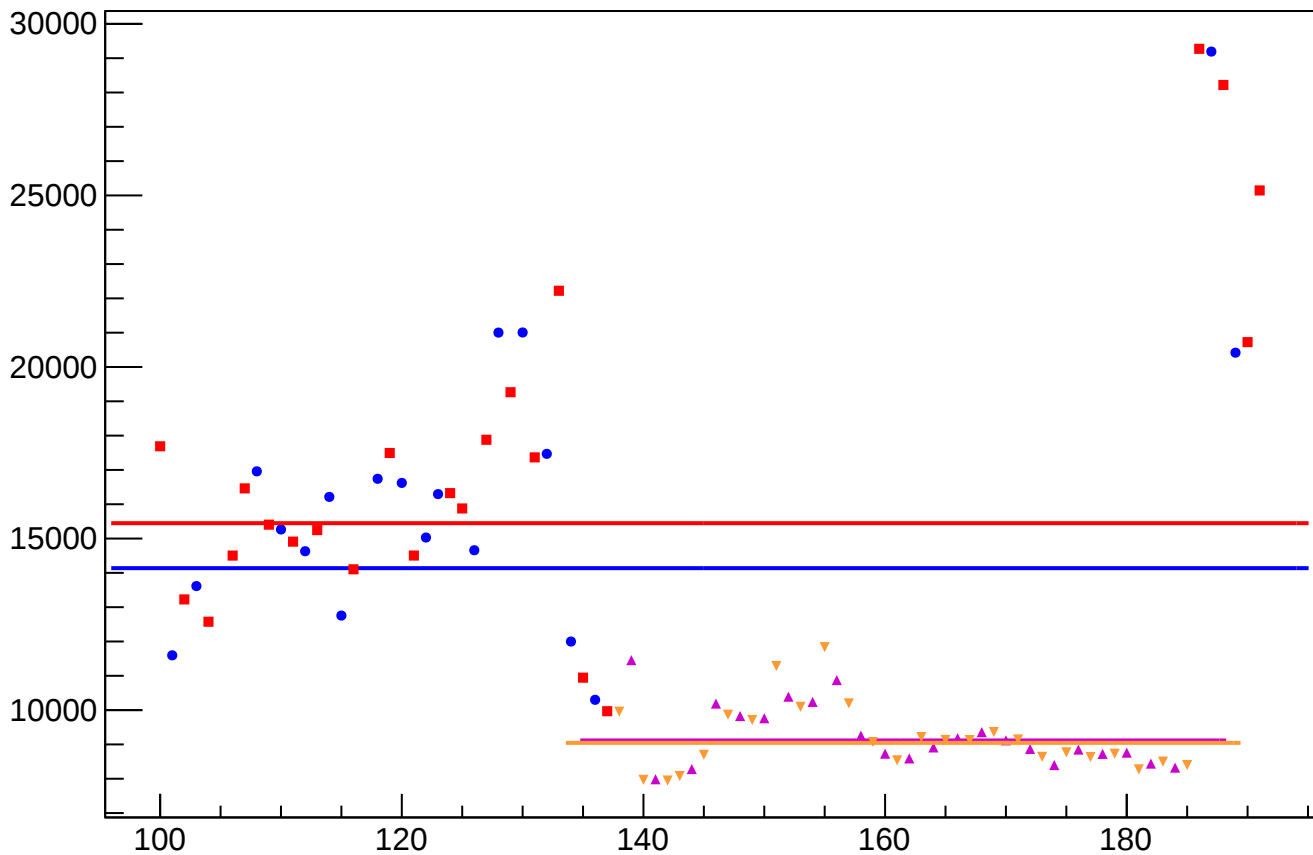
Right: 0.034 ± 3.803 $\chi^2/\text{NDF}: 45.9/41$

In: -1.270 ± 2.038 $\chi^2/\text{NDF}: 55.8/41$

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

All: -4.314 ± 1.417 $\chi^2/\text{NDF}: 148.0/89$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14137.092 $\pm$ 3.824 χ^2 /NDF: 775312.9/18

Left Out: 9045.871 $\pm$ 1.500 χ^2 /NDF: 328508.5/24

Right Out: 15448.038 $\pm$ 3.783 χ^2 /NDF: 1180699.5/22

Left In: 9115.817 $\pm$ 1.556 χ^2 /NDF: 272471.8/22

Left: 9079.576 $\pm$ 1.080 χ^2 /NDF: 602027.6/47

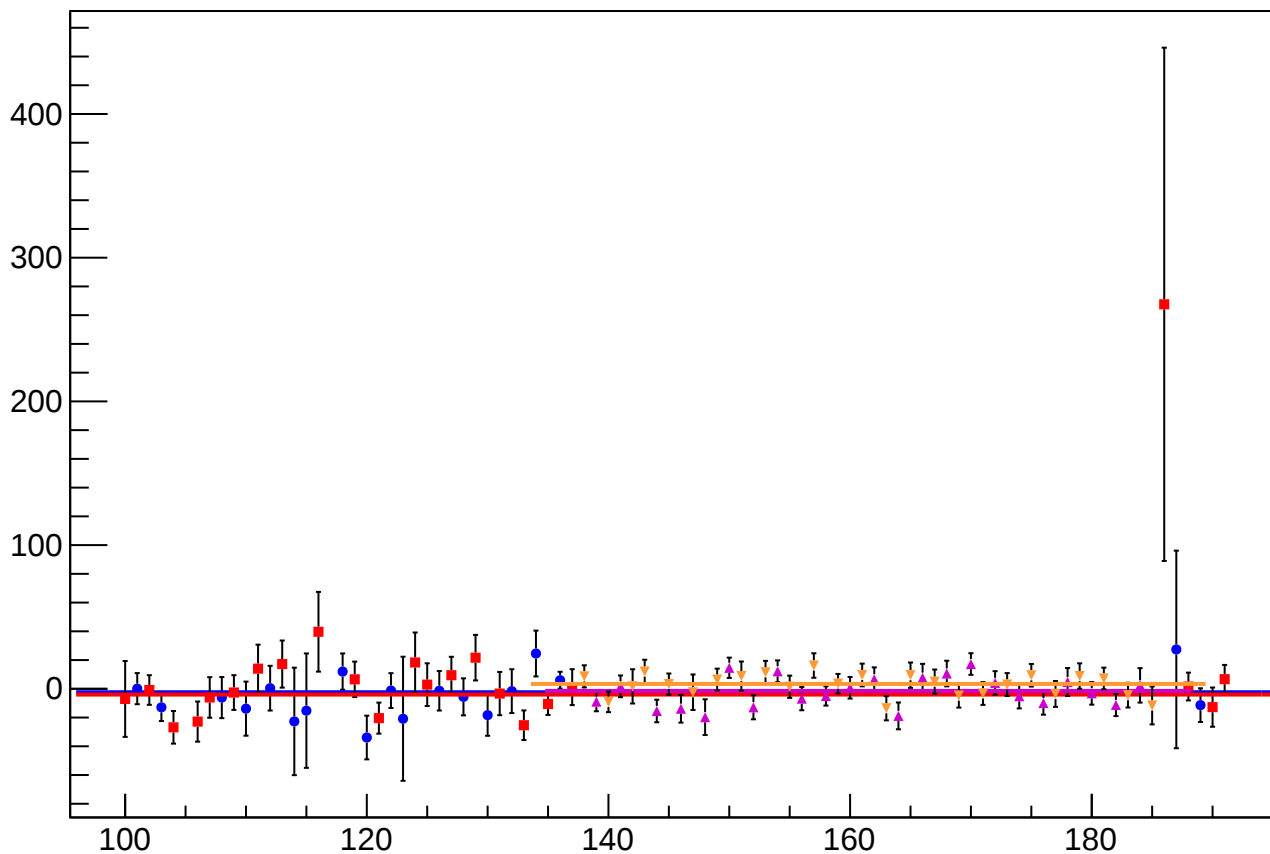
Right: 14799.494 $\pm$ 2.689 χ^2 /NDF: 2015406.6/41

In: 9828.990 $\pm$ 1.441 χ^2 /NDF: 2527361.7/41

Out: 9915.784 $\pm$ 1.395 χ^2 /NDF: 3983488.1/47

All: 9873.806 $\pm$ 1.002 χ^2 /NDF: 6512722.9/89

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -2.394+/-2.994 χ^2/NDF : 14.9/18

Left Out: 3.387+/-1.668 χ^2/NDF :19.4/24

Right Out: -4.013+/-2.673 χ^2/NDF : 28.9/22

Left In: -1.479+/-1.710 χ^2/NDF :36.7/22

Left: 1.015+/-1.194 χ^2/NDF : 60.3/47

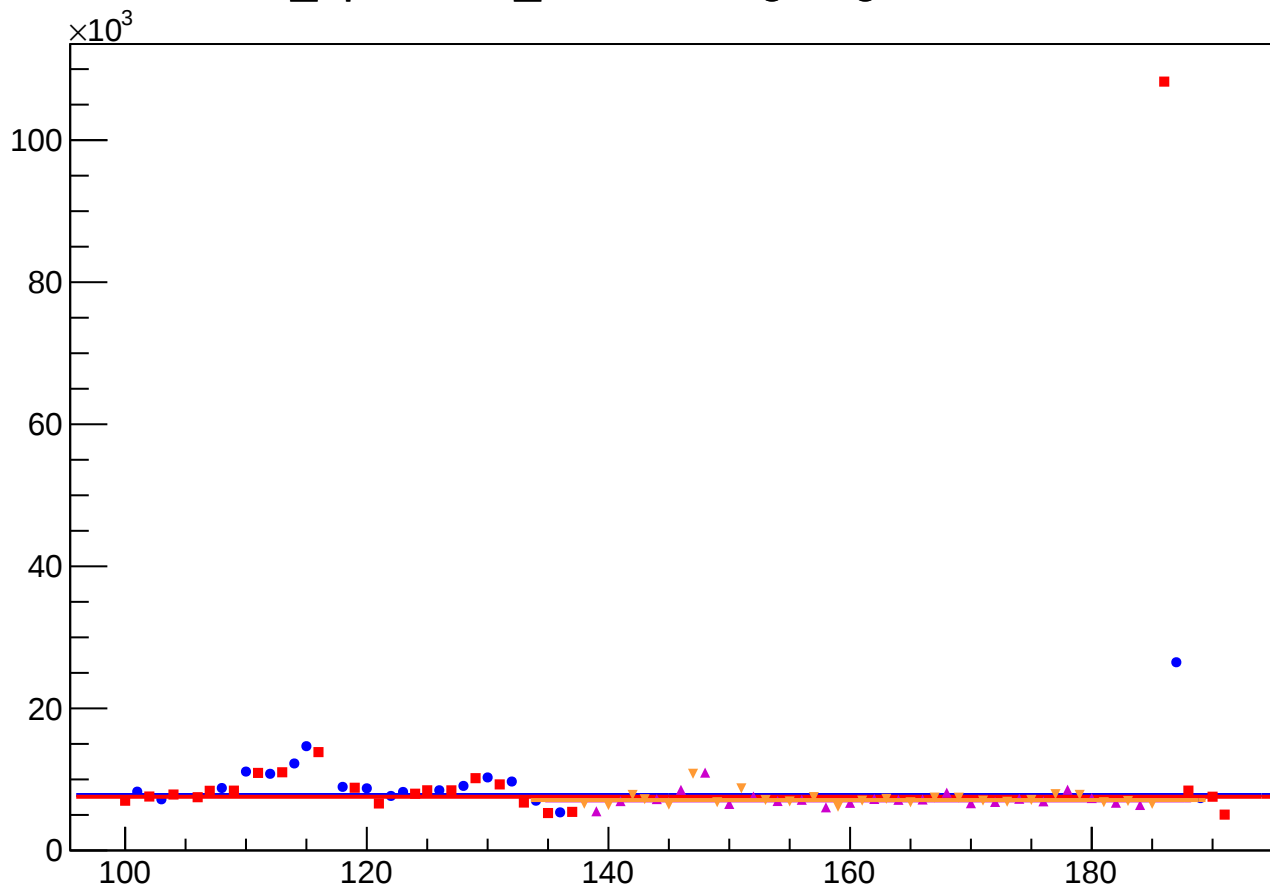
Right: -3.295+/-1.994 χ^2/NDF : 43.9/41

In: -1.705+/-1.485 χ^2/NDF :51.7/41

Out: 1.313+/-1.415 χ^2/NDF :53.8/47

All: -0.123+/-1.024 χ^2/NDF : 107.6/89

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7805.716 $\pm$ 2.117 χ^2/NDF : 886878.7/18

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

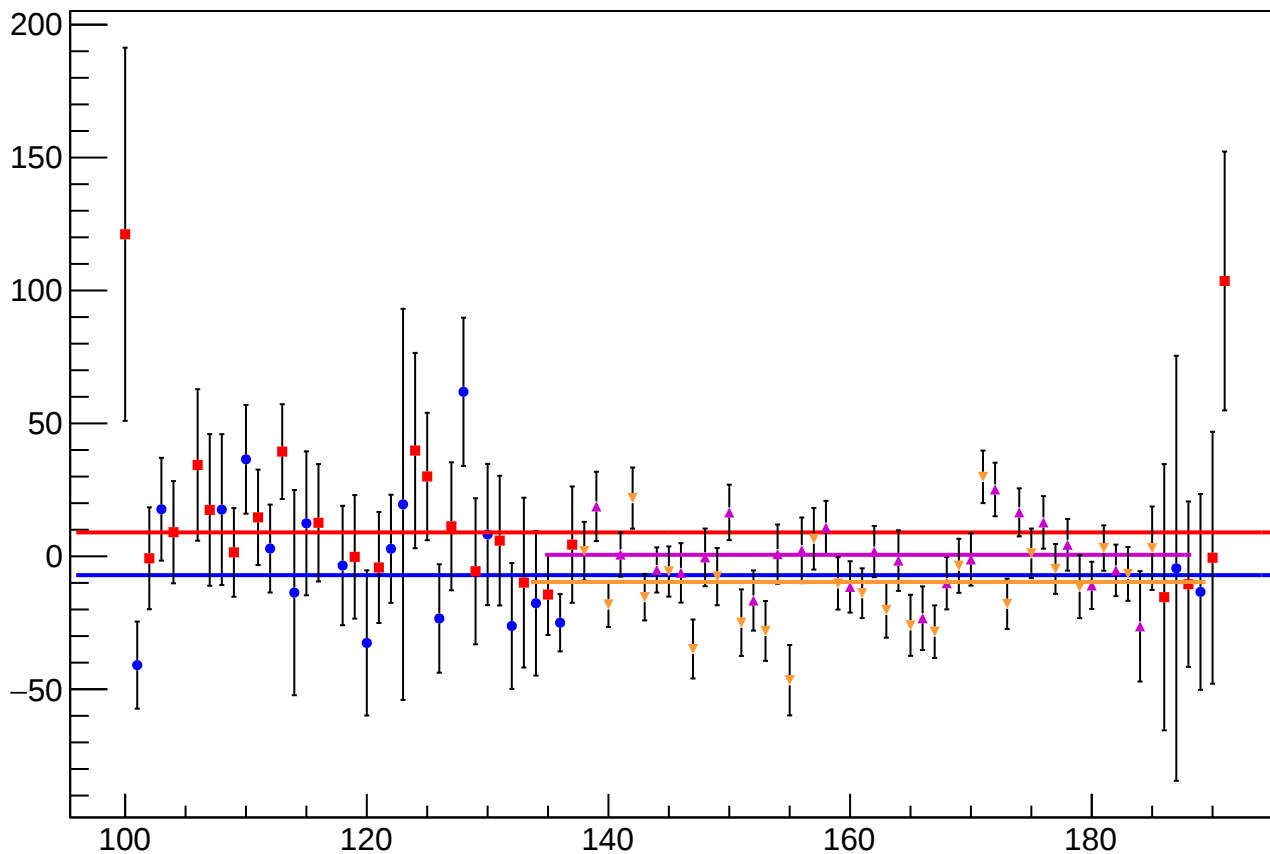
Right: 7667.908 $\pm$ 1.410 χ^2/NDF : 2354087.7/41

In: 7233.874 $\pm$ 1.050 χ^2/NDF : 1501089.4/41

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

All: 7229.626 $\pm$ 0.724 χ^2/NDF : 3385622.7/89

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.085 ± 5.038 $\chi^2/\text{NDF}: 24.1/18$

Left Out: -9.670 ± 2.061 $\chi^2/\text{NDF}: 57.9/24$

Right Out: 8.998 ± 4.936 $\chi^2/\text{NDF}: 16.5/22$

Left In: 0.564 ± 2.144 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.755 ± 1.486 $\chi^2/\text{NDF}: 99.5/47$

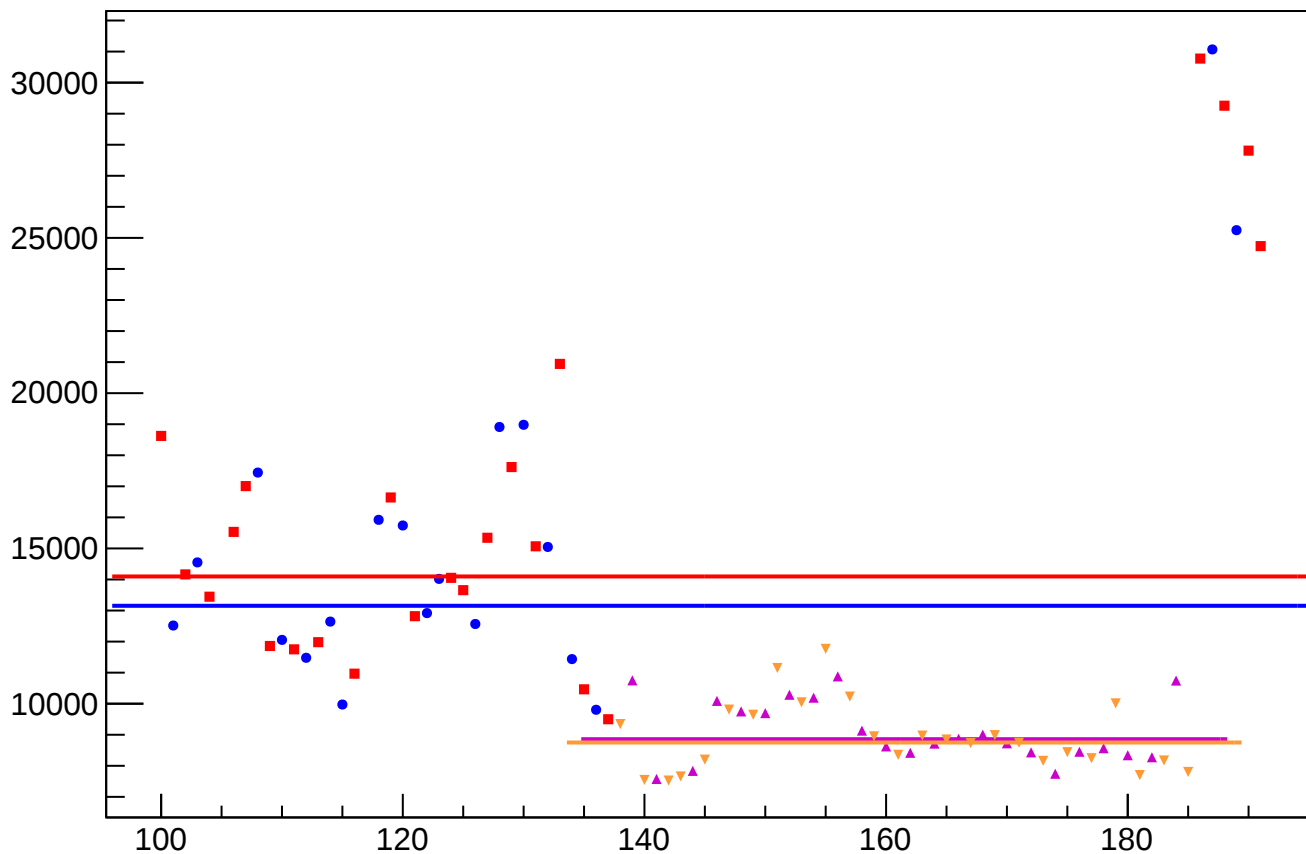
Right: 1.121 ± 3.526 $\chi^2/\text{NDF}: 45.7/41$

In: -0.609 ± 1.973 $\chi^2/\text{NDF}: 55.8/41$

Out: -6.899 ± 1.902 $\chi^2/\text{NDF}: 86.6/47$

All: -3.869 ± 1.369 $\chi^2/\text{NDF}: 147.6/89$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13153.025+/-3.562 χ^2/NDF : 875467.2/18

Left Out: 8750.420+/-1.457 χ^2/NDF : 463880.1/24

Right Out: 14097.492+/-3.490 χ^2/NDF : 1502940.8/22

Left In: 8857.329+/-1.516 χ^2/NDF : 361778.8/22

Left: 8801.764+/-1.050 χ^2/NDF : 828244.3/47

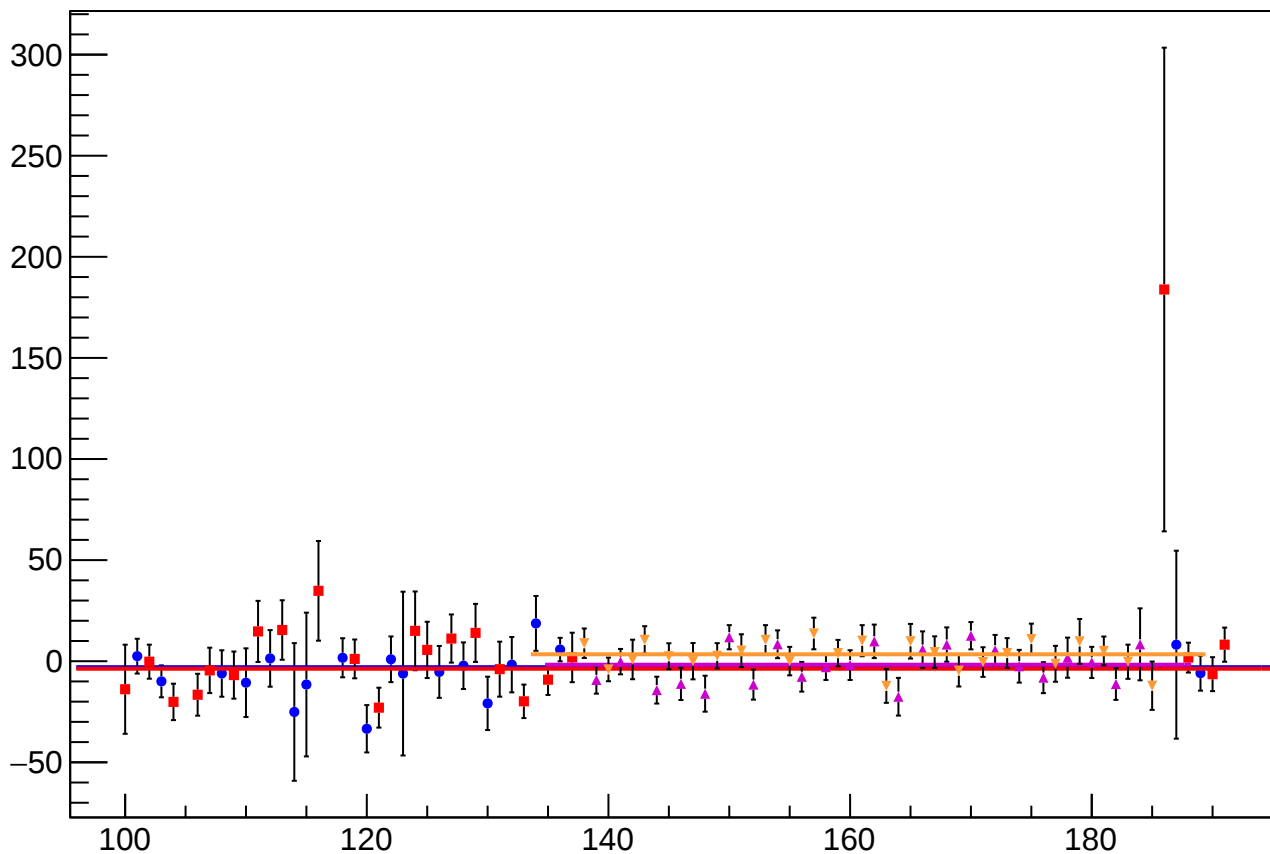
Right: 13634.935+/-2.493 χ^2/NDF : 2414274.3/41

In: 9515.868+/-1.395 χ^2/NDF : 2468448.5/41

Out: 9544.091+/-1.345 χ^2/NDF : 3965700.4/47

All: 9530.496+/-0.968 χ^2/NDF : 6434361.1/89

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.950 ± 2.605 χ^2/NDF : 16.0/18

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

Right Out: -3.712 ± 2.262 χ^2/NDF : 29.1/22

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

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

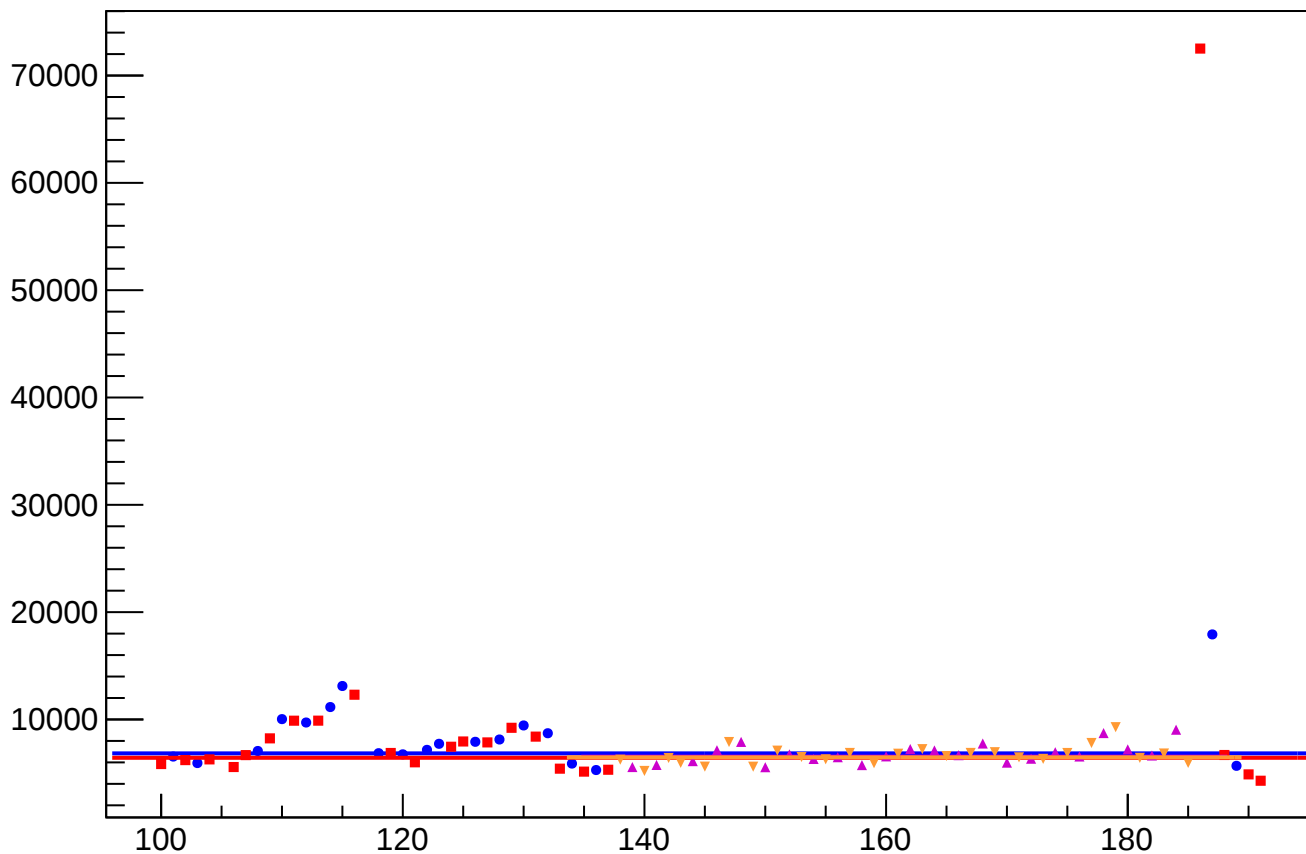
Right: -3.384 ± 1.708 χ^2/NDF : 45.2/41

In: -2.063 ± 1.355 χ^2/NDF : 49.8/41

Out: 1.199 ± 1.265 χ^2/NDF : 52.2/47

All: -0.320 ± 0.925 χ^2/NDF : 105.1/89

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6840.318+/-1.842 χ^2/NDF : 738387.2/18

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

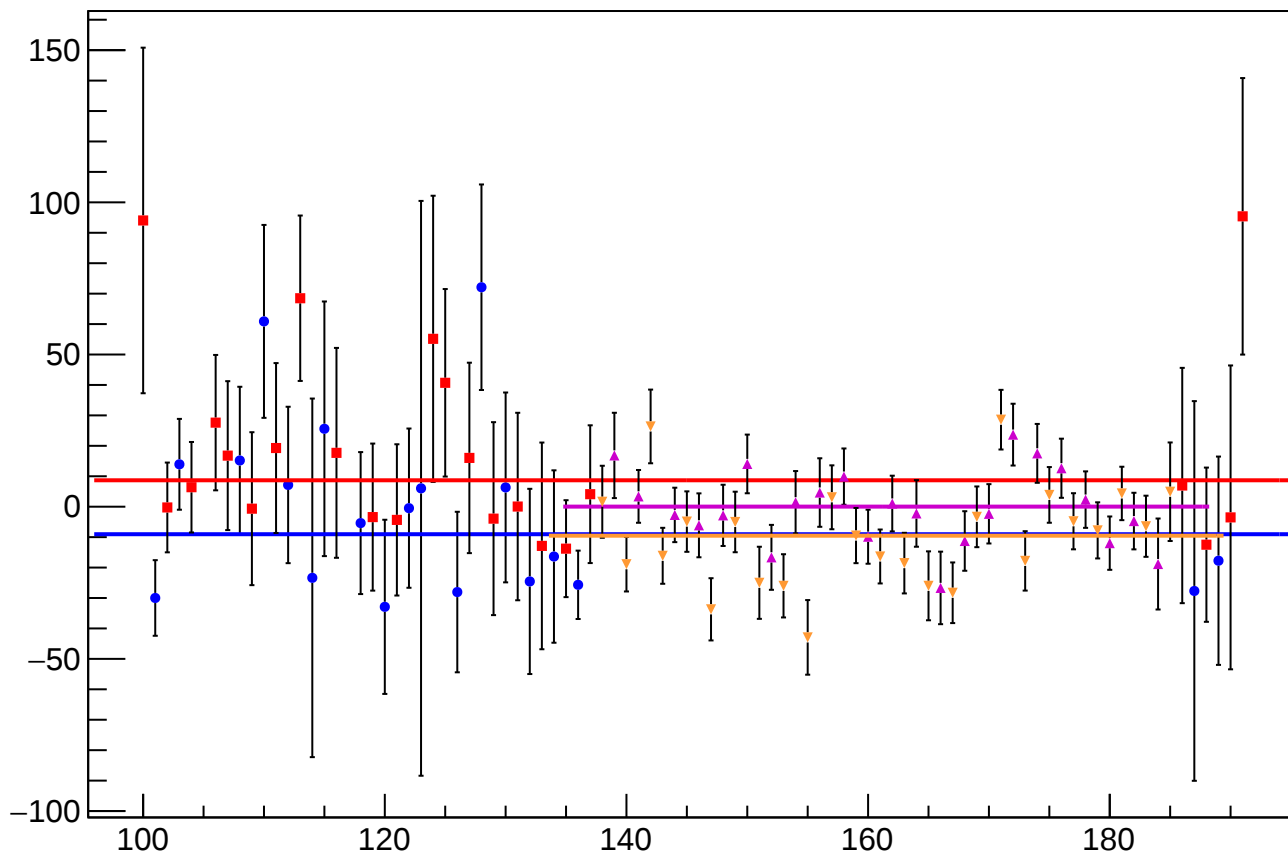
Right: 6605.878+/-1.208 χ^2/NDF : 2260278.4/41

In: 6614.595+/-0.958 χ^2/NDF : 1223633.8/41

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

All: 6530.106+/-0.654 χ^2/NDF : 3219292.3/89

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.042 ± 5.316 χ^2/NDF : 22.3/18

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

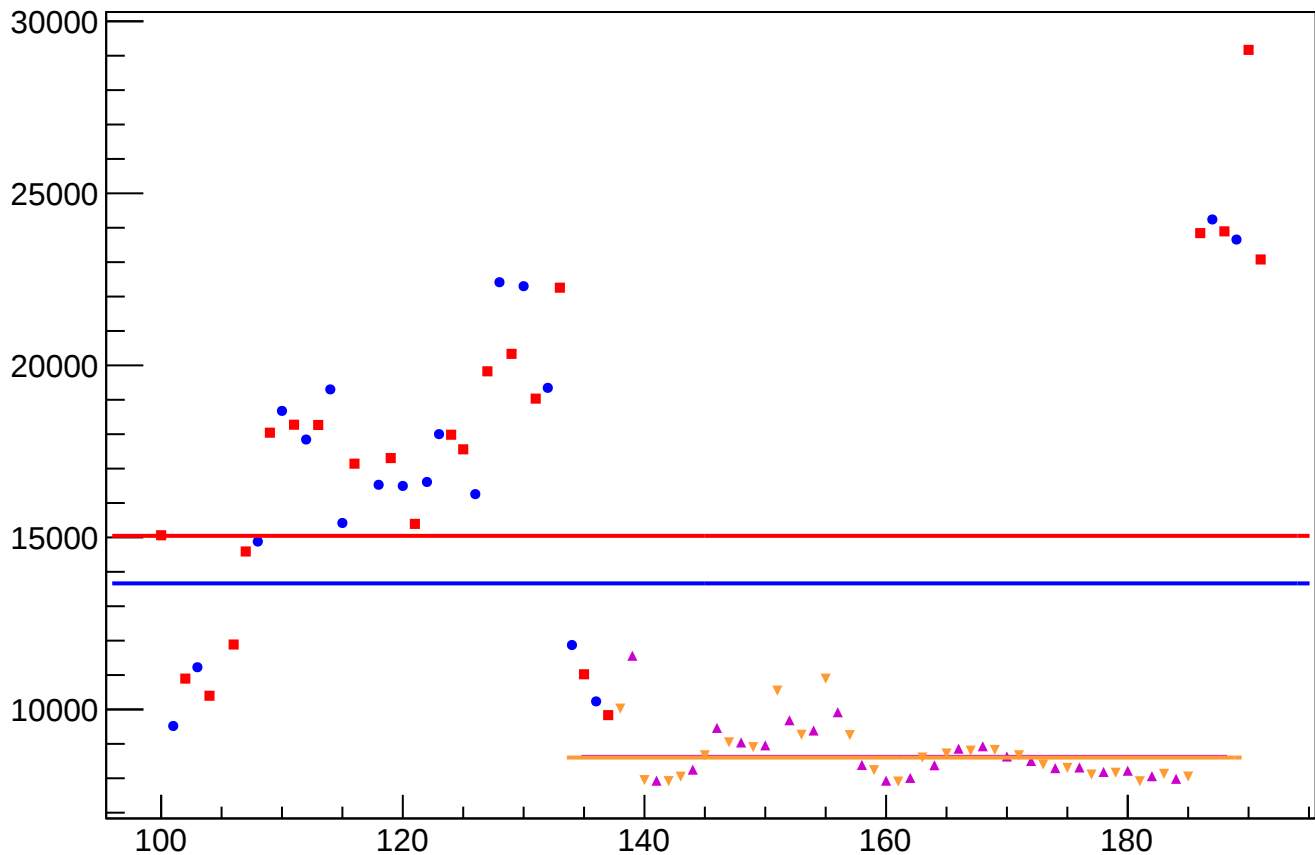
Right: -0.109 ± 3.743 χ^2/NDF : 46.3/41

In: -1.177 ± 1.937 χ^2/NDF : 54.7/41

Out: -7.208 ± 1.882 χ^2/NDF : 88.4/47

All: -4.278 ± 1.350 χ^2/NDF : 148.0/89

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13664.063 $\pm$ 3.759 χ^2/NDF : 1284658.8/18

Left Out: 8601.926 $\pm$ 1.425 χ^2/NDF : 248903.5/24

Right Out: 15045.525 $\pm$ 3.728 χ^2/NDF : 1554704.0/22

Left In: 8621.975 $\pm$ 1.471 χ^2/NDF : 230824.4/22

Left: 8611.634 $\pm$ 1.023 χ^2/NDF : 479823.8/47

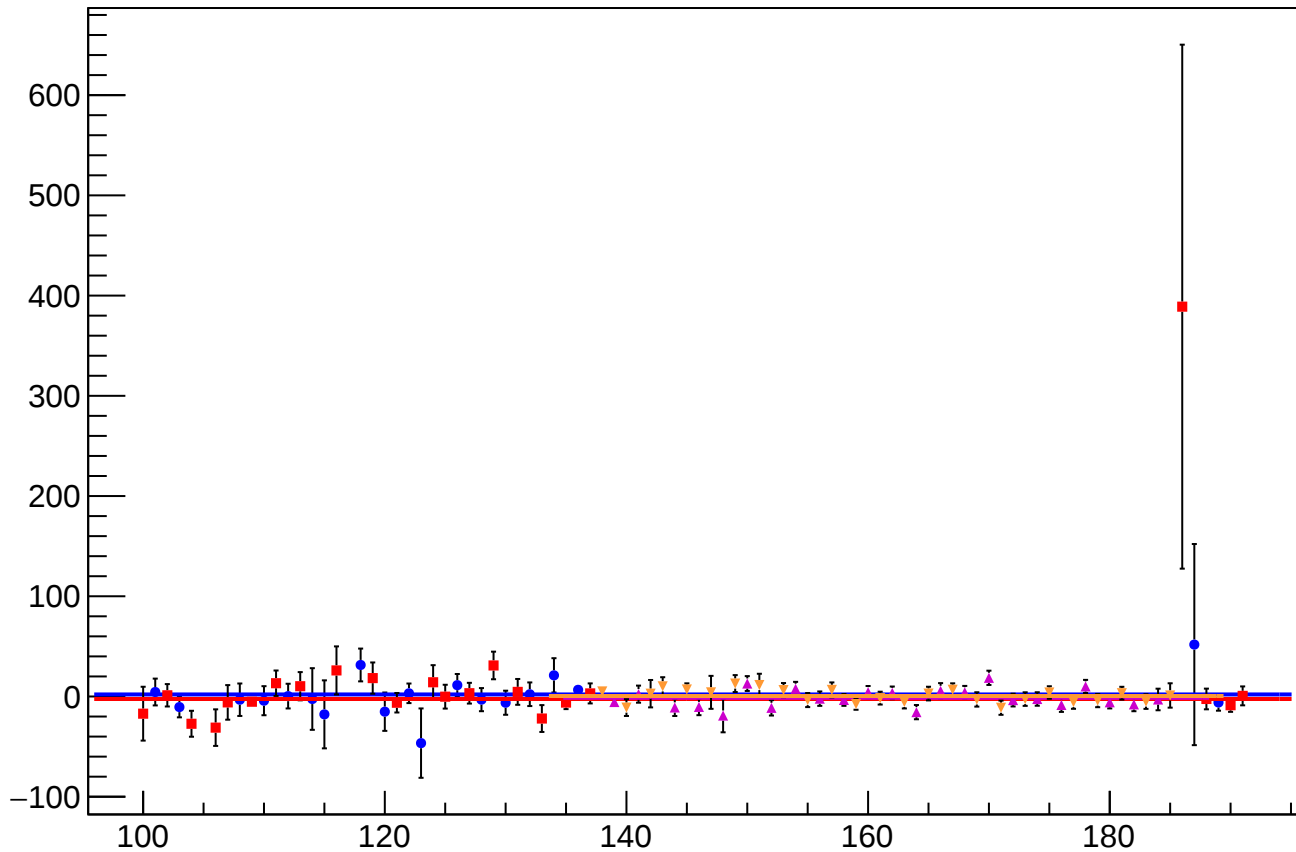
Right: 14360.489 $\pm$ 2.647 χ^2/NDF : 2907455.9/41

In: 9291.359 $\pm$ 1.370 χ^2/NDF : 3075934.5/41

Out: 9423.363 $\pm$ 1.331 χ^2/NDF : 4410258.6/47

All: 9359.243 $\pm$ 0.955 χ^2/NDF : 7490970.4/89

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.037 ± 2.612 $\chi^2/\text{NDF}: 13.1/18$

Left Out: 0.481 ± 1.419 $\chi^2/\text{NDF}: 19.6/24$

Right Out: -2.497 ± 2.177 $\chi^2/\text{NDF}: 26.1/22$

Left In: -1.298 ± 1.406 $\chi^2/\text{NDF}: 33.0/22$

Left: -0.417 ± 0.999 $\chi^2/\text{NDF}: 53.4/47$

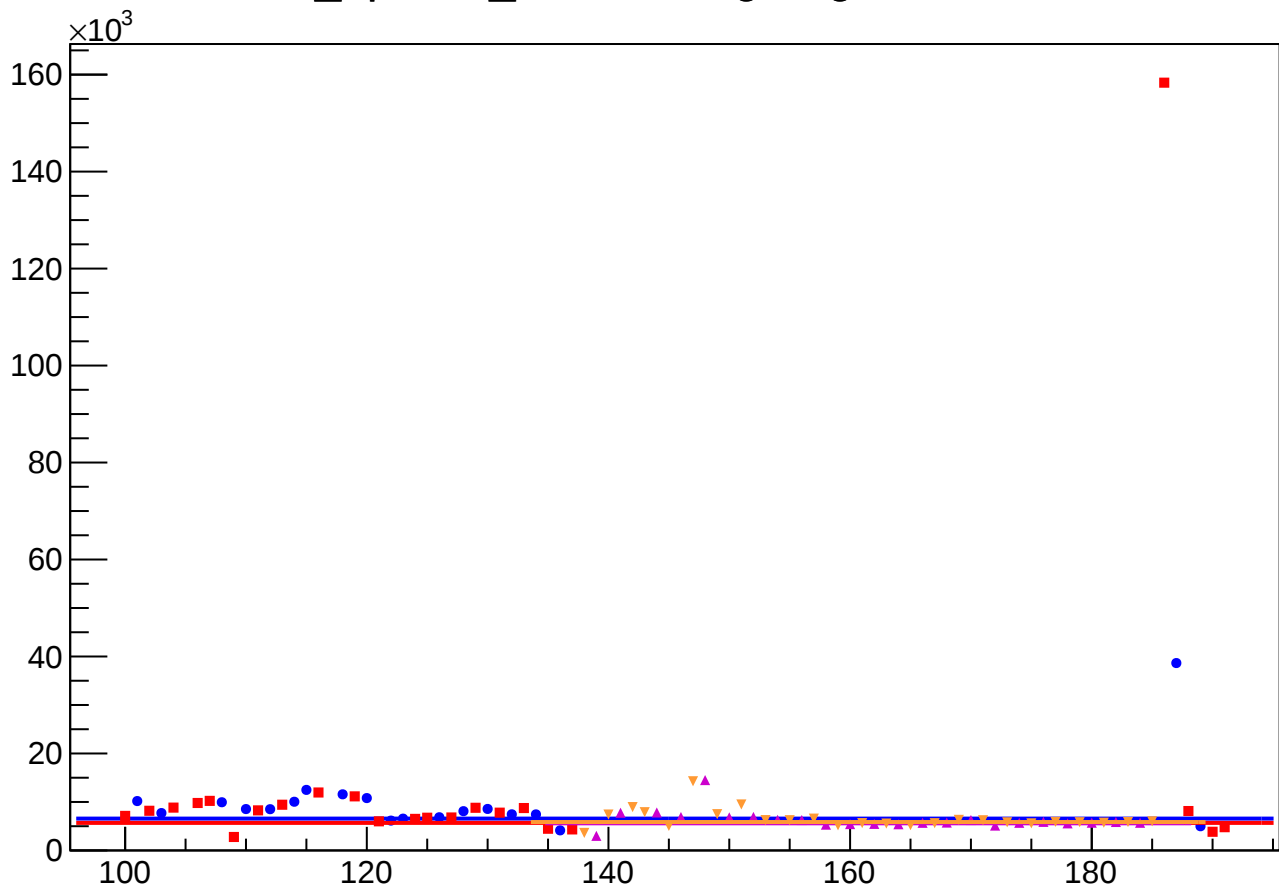
Right: -0.638 ± 1.673 $\chi^2/\text{NDF}: 41.0/41$

In: -0.549 ± 1.238 $\chi^2/\text{NDF}: 47.4/41$

Out: -0.407 ± 1.189 $\chi^2/\text{NDF}: 46.9/47$

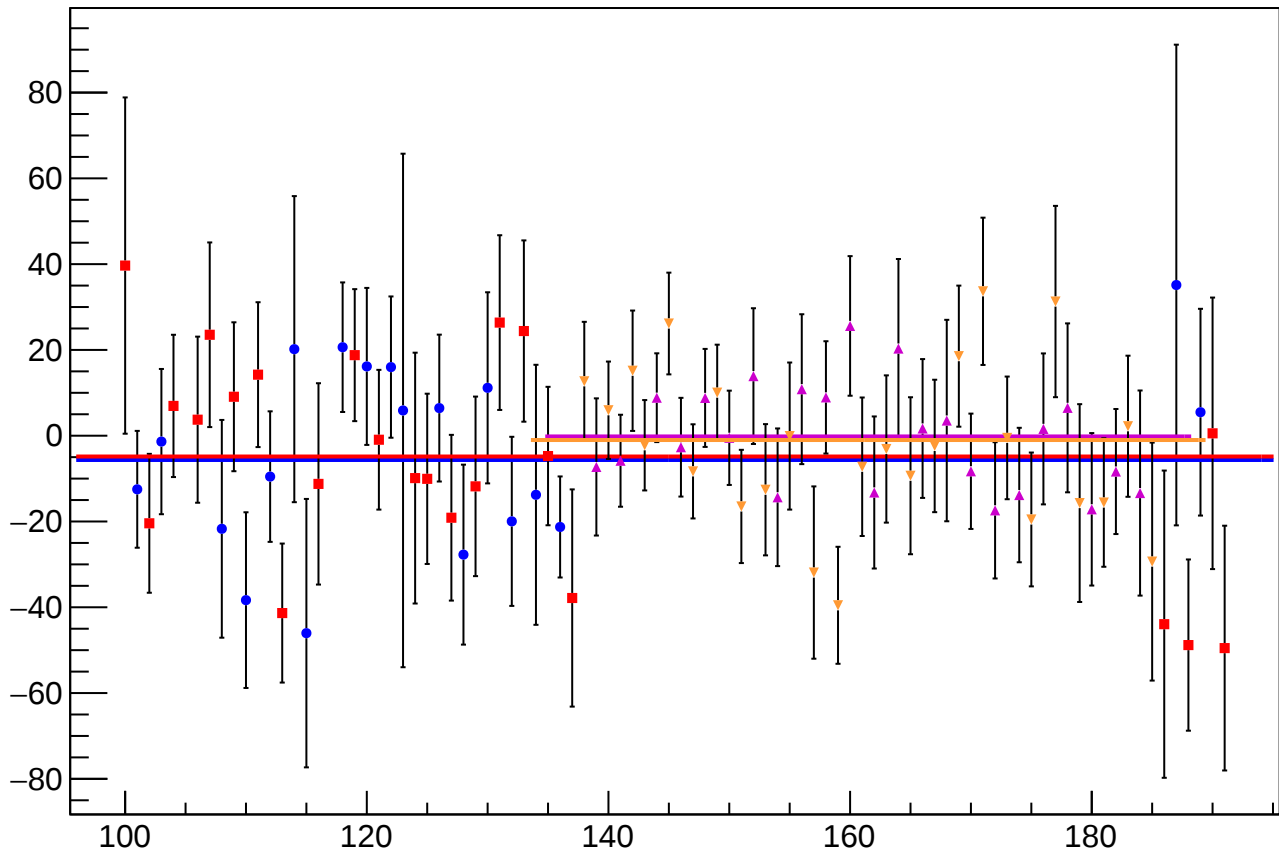
All: -0.475 ± 0.858 $\chi^2/\text{NDF}: 94.4/89$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6569.619+/-1.847	χ^2/NDF : 1676544.3/18	Left: 5726.555+/-0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642+/-1.004	χ^2/NDF : 1691344.1/24	Right: 6046.775+/-1.183	χ^2/NDF : 5067074.8/41
Right Out: 5683.553+/-1.540	χ^2/NDF : 3254755.3/22	In: 5815.425+/-0.876	χ^2/NDF : 3981305.9/41
Left In: 5596.879+/-0.994	χ^2/NDF : 2089750.1/22	Out: 5806.433+/-0.841	χ^2/NDF : 4955176.1/47
		All: 5810.747+/-0.606	χ^2/NDF : 8936536.9/89

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.659 ± 4.433 $\chi^2/\text{NDF}: 17.0/18$

Left Out: -1.007 ± 2.942 $\chi^2/\text{NDF}: 33.5/24$

Right Out: -4.851 ± 4.167 $\chi^2/\text{NDF}: 29.4/22$

Left In: -0.172 ± 3.067 $\chi^2/\text{NDF}: 12.4/22$

Left: -0.607 ± 2.123 $\chi^2/\text{NDF}: 45.9/47$

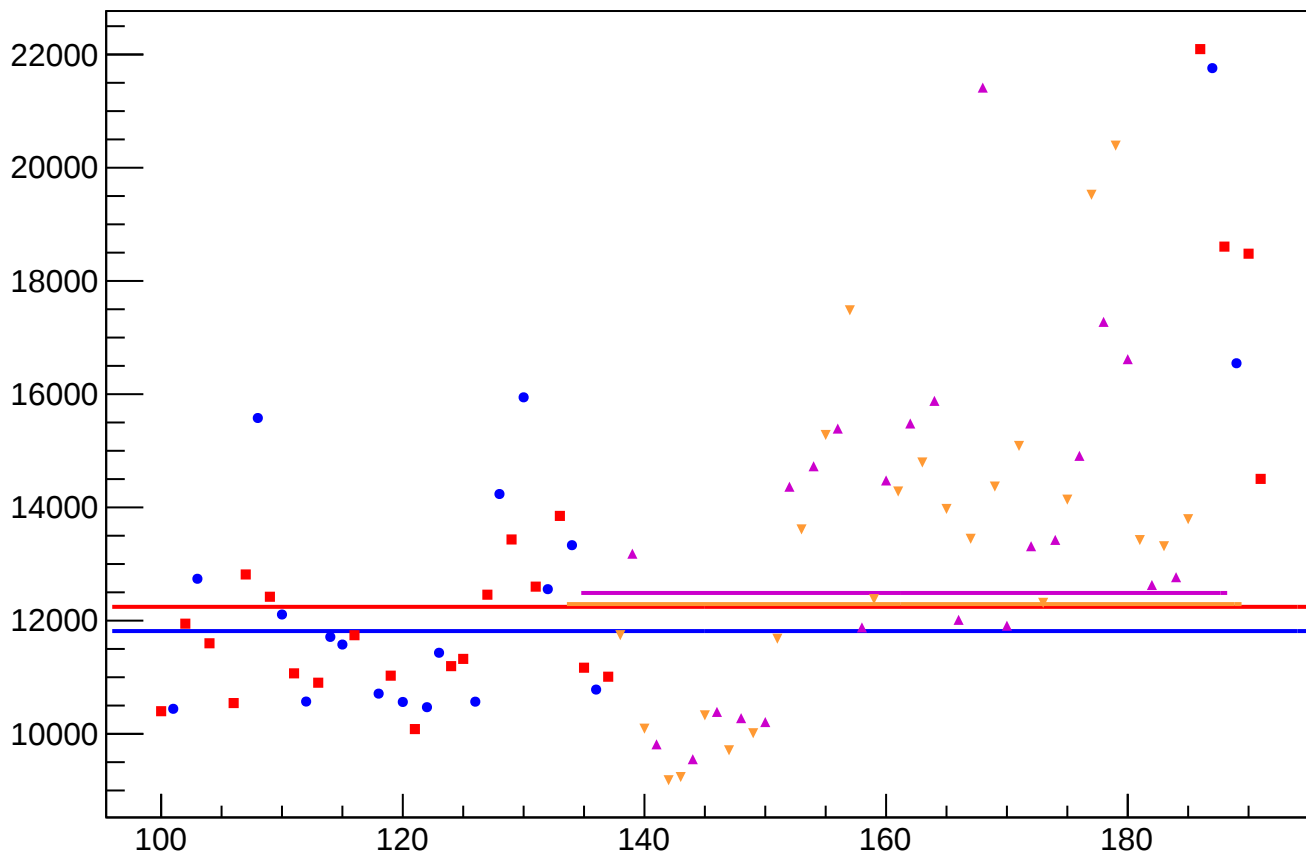
Right: -5.230 ± 3.036 $\chi^2/\text{NDF}: 46.4/41$

In: -1.948 ± 2.522 $\chi^2/\text{NDF}: 30.4/41$

Out: -2.286 ± 2.403 $\chi^2/\text{NDF}: 63.4/47$

All: -2.125 ± 1.740 $\chi^2/\text{NDF}: 93.8/89$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11815.628+/-3.135

χ^2/NDF : 386821.1/18

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: 12042.927+/-2.147

χ^2/NDF : 977858.4/41

In: 12270.895+/-1.784

χ^2/NDF :1772493.9/41

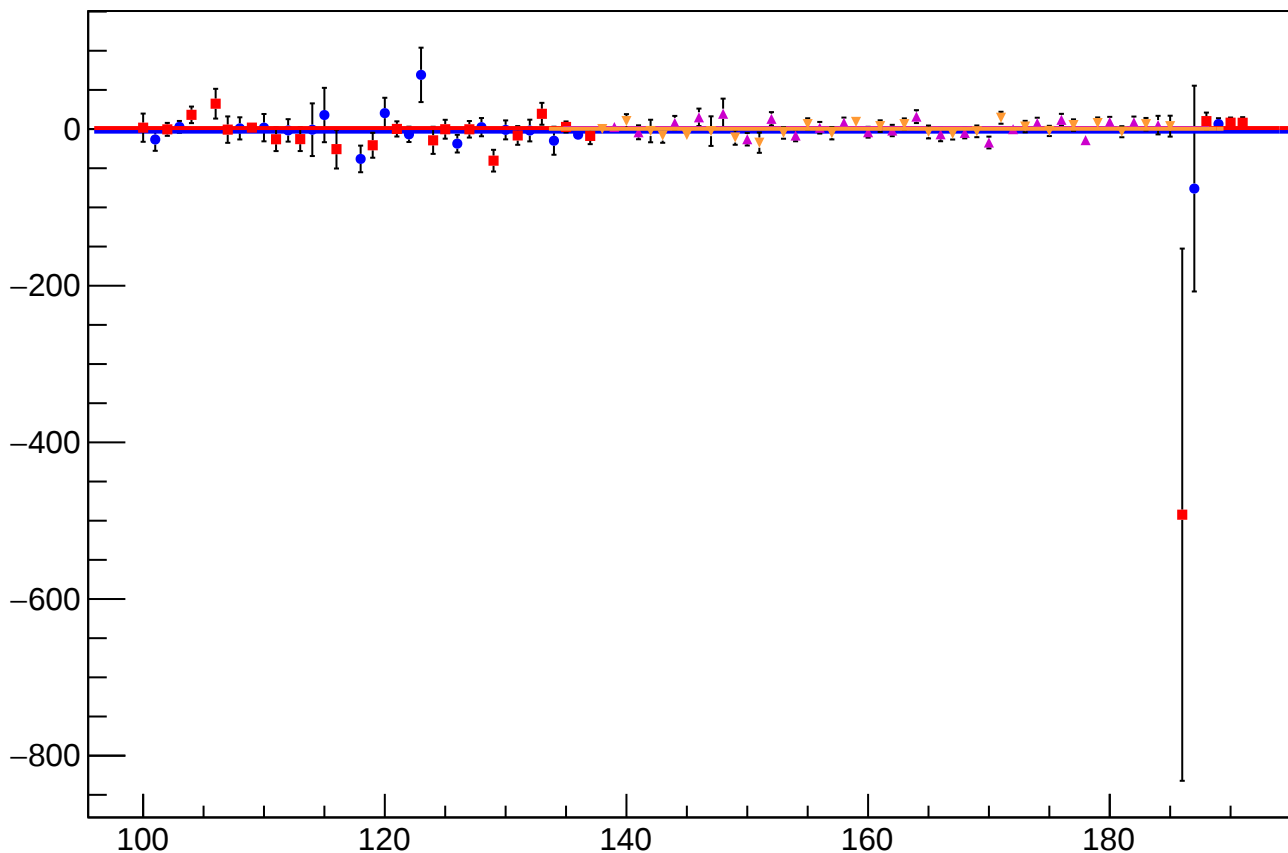
Out: 12276.326+/-1.699

χ^2/NDF :2083867.8/47

All: 12273.742+/-1.230

χ^2/NDF : 3856366.6/8

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -3.281 ± 2.605 χ^2/NDF : 17.1/18

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

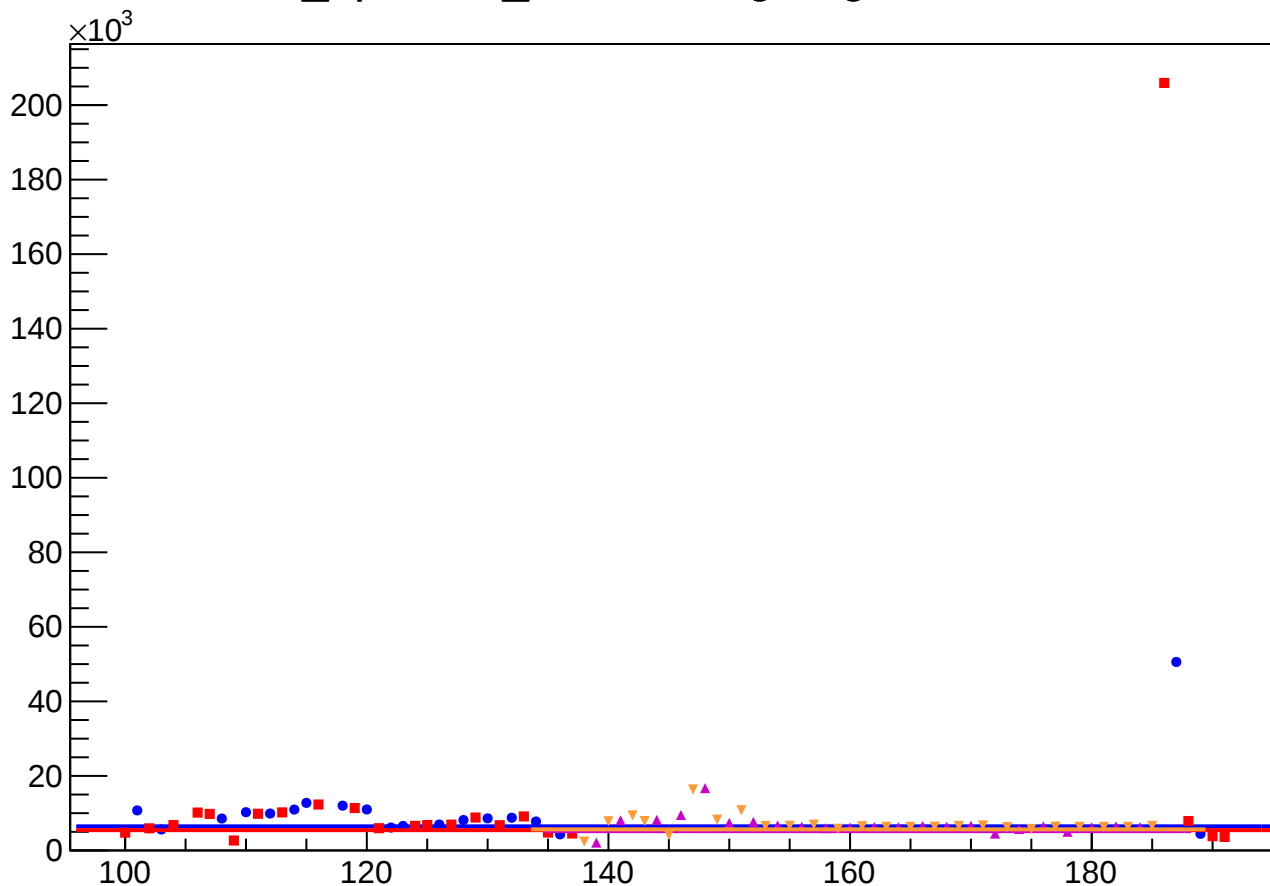
Right: -0.539 ± 1.649 χ^2/NDF : 47.0/41

In: 0.272 ± 1.223 χ^2/NDF : 53.4/41

Out: 0.686 ± 1.190 χ^2/NDF : 47.5/47

All: 0.485 ± 0.853 χ^2/NDF : 101.0/89

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6468.769 $\pm$ 1.842 χ^2/NDF : 1834169.2/18

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

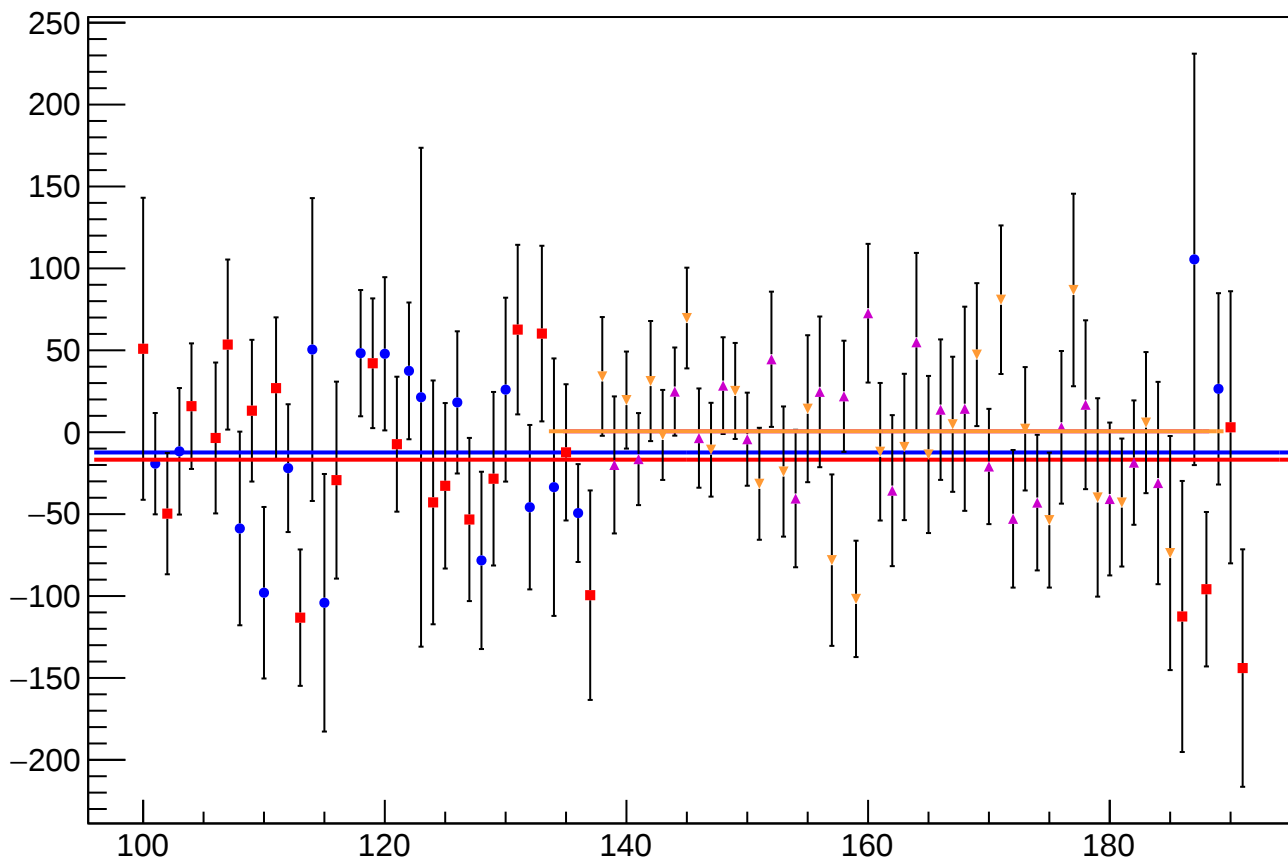
Right: 5856.540 $\pm$ 1.166 χ^2/NDF : 5260701.4/41

In: 5464.913 $\pm$ 0.865 χ^2/NDF : 7565443.1/41

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

All: 5529.475 $\pm$ 0.603 χ^2/NDF : 14955708.0/8

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -12.353 $\pm$ 10.992 χ^2/NDF : 16.6/18

Left Out: 0.580 $\pm$ 7.691 χ^2/NDF : 31.0/24

Right Out: -16.766 $\pm$ 10.353 χ^2/NDF : 27.3/22

Left In: 0.565 $\pm$ 8.015 χ^2/NDF : 14.3/22

Left: 0.572 $\pm$ 5.549 χ^2/NDF : 45.3/47

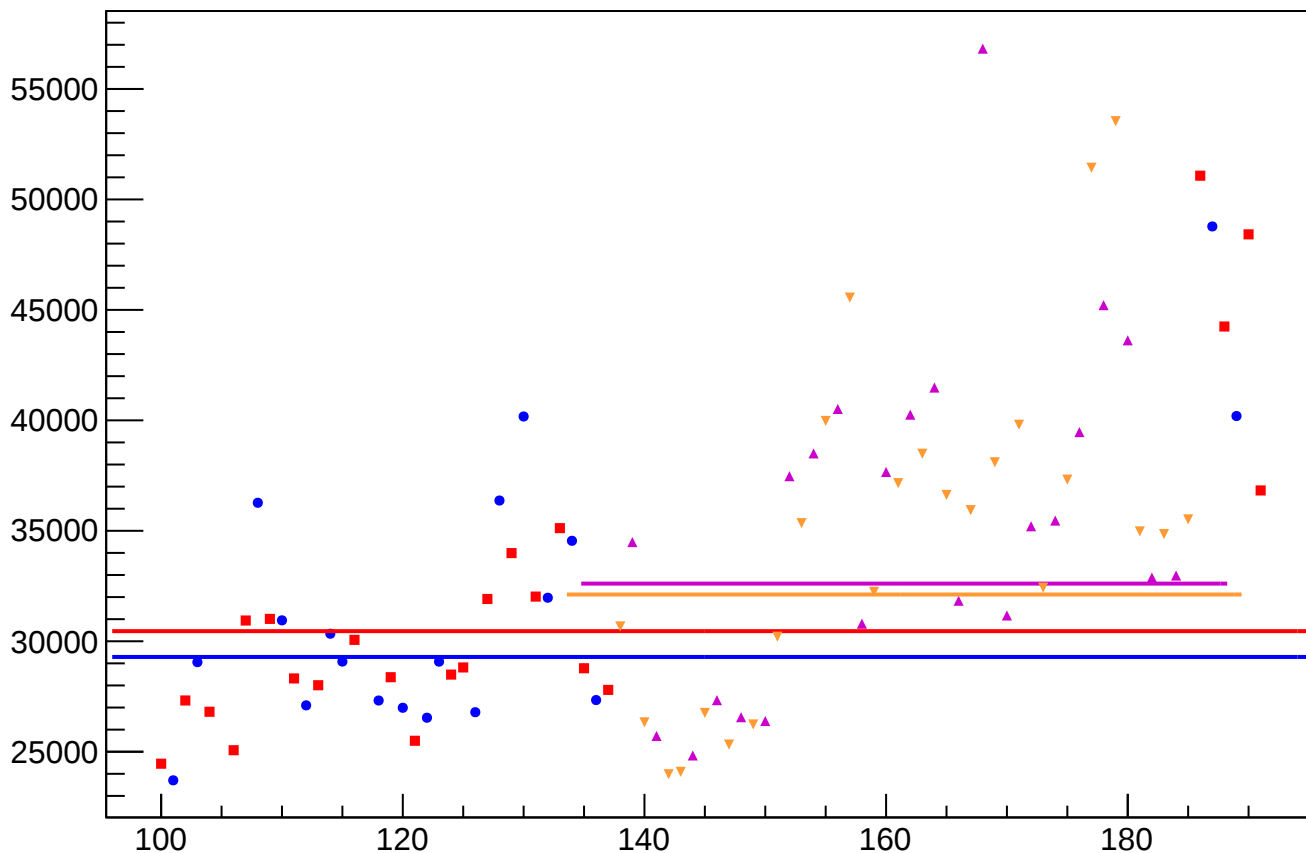
Right: -14.692 $\pm$ 7.537 χ^2/NDF : 44.1/41

In: -3.919 $\pm$ 6.476 χ^2/NDF : 31.8/41

Out: -5.588 $\pm$ 6.174 χ^2/NDF : 60.1/47

All: -4.793 $\pm$ 4.468 χ^2/NDF : 92.0/89

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29289.703 $\pm$ 7.773

χ^2/NDF : 377690.7/18

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

Right Out: 30457.641 $\pm$ 7.321

χ^2/NDF : 557394.0/22

Left In: 32610.108 $\pm$ 5.667

χ^2/NDF : 1398475.8/22

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

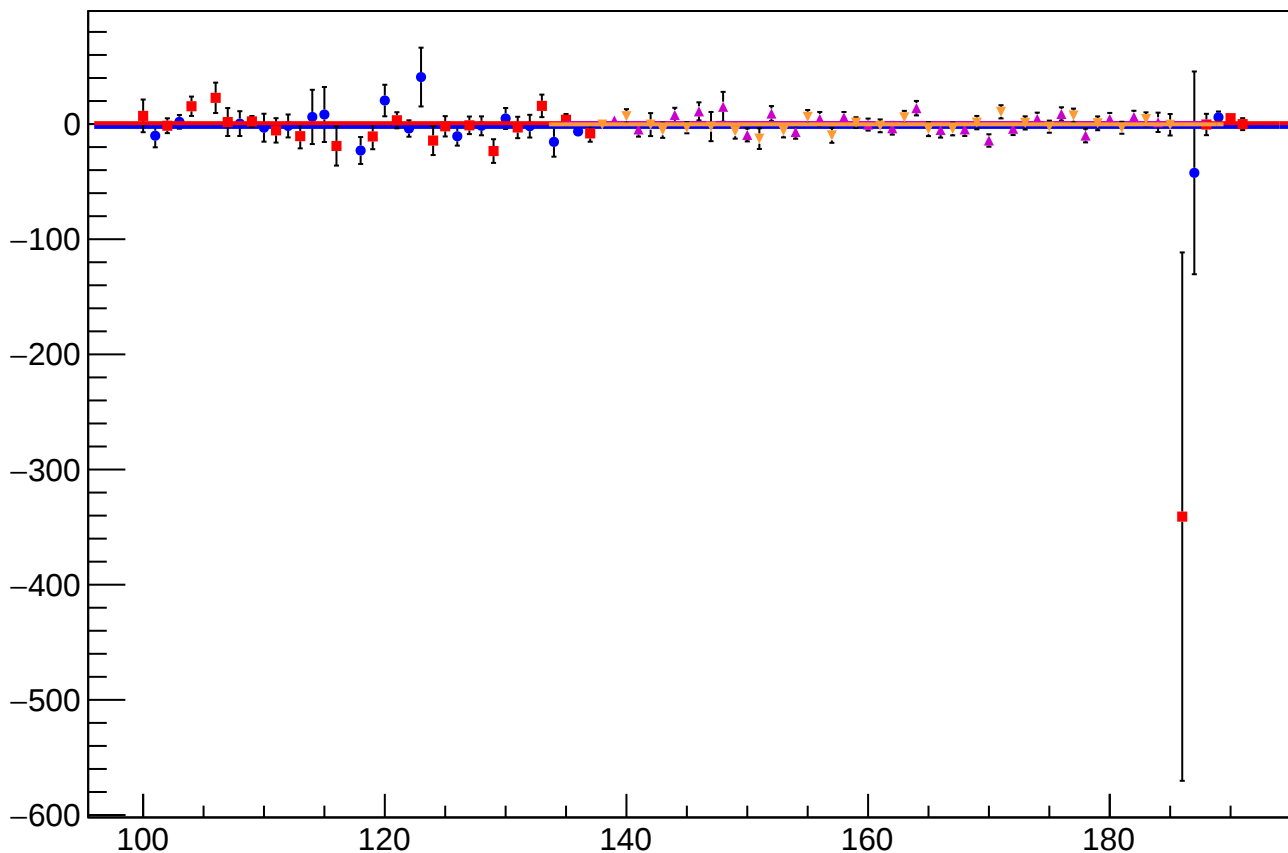
Right: 29908.595 $\pm$ 5.329 χ^2/NDF : 947049.4/41

In: 31457.626 $\pm$ 4.579 χ^2/NDF : 1895318.6/41

Out: 31527.090 $\pm$ 4.365 χ^2/NDF : 2127248.8/47

All: 31494.017 $\pm$ 3.160 χ^2/NDF : 4022688.0/8

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -2.470 ± 1.867 χ^2/NDF : 17.4/18

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

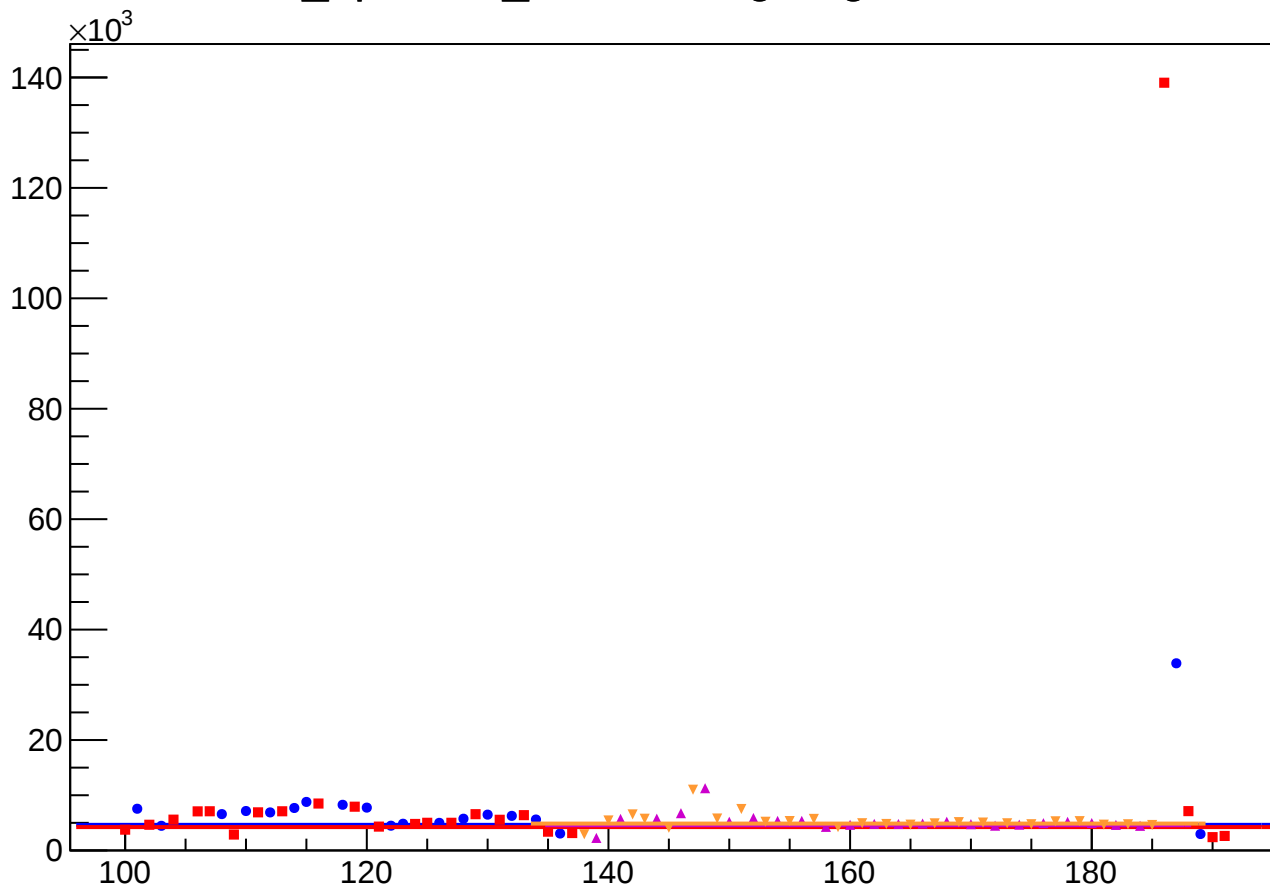
Right: -0.612 ± 1.219 χ^2/NDF : 44.3/41

In: -0.013 ± 0.981 χ^2/NDF : 55.9/41

Out: 0.100 ± 0.948 χ^2/NDF : 43.5/47

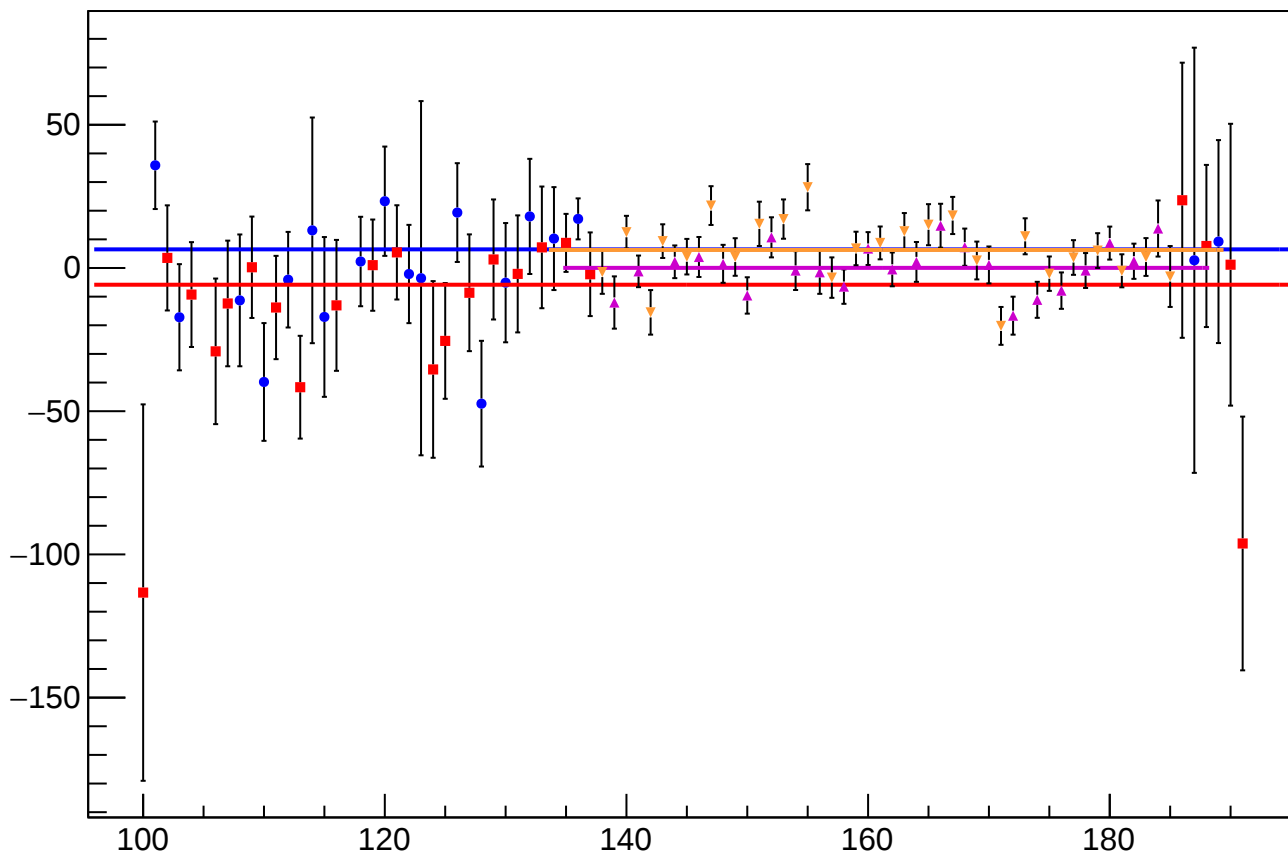
All: 0.045 ± 0.682 χ^2/NDF : 99.4/89

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4638.901 $\pm$ 1.320	χ^2/NDF : 1877643.5/18	Left: 4722.017 $\pm$ 0.582	χ^2/NDF : 4049906.1/47
Left Out: 4866.528 $\pm$ 0.829	χ^2/NDF : 1511486.2/24	Right: 4405.558 $\pm$ 0.862	χ^2/NDF : 4833739.0/41
Right Out: 4232.178 $\pm$ 1.138	χ^2/NDF : 2901630.9/22	In: 4597.866 $\pm$ 0.694	χ^2/NDF : 4357659.9/41
Left In: 4582.193 $\pm$ 0.816	χ^2/NDF : 2478681.0/22	Out: 4646.451 $\pm$ 0.670	χ^2/NDF : 4616086.9/47
		All: 4623.004 $\pm$ 0.482	χ^2/NDF : 8976282.9/89

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.506 ± 4.040 $\chi^2/\text{NDF}: 22.8/18$

Left Out: 6.302 ± 1.313 $\chi^2/\text{NDF}: 56.7/24$

Right Out: -5.842 ± 4.132 $\chi^2/\text{NDF}: 18.3/22$

Left In: 0.044 ± 1.358 $\chi^2/\text{NDF}: 30.0/22$

Left: 3.279 ± 0.944 $\chi^2/\text{NDF}: 97.7/47$

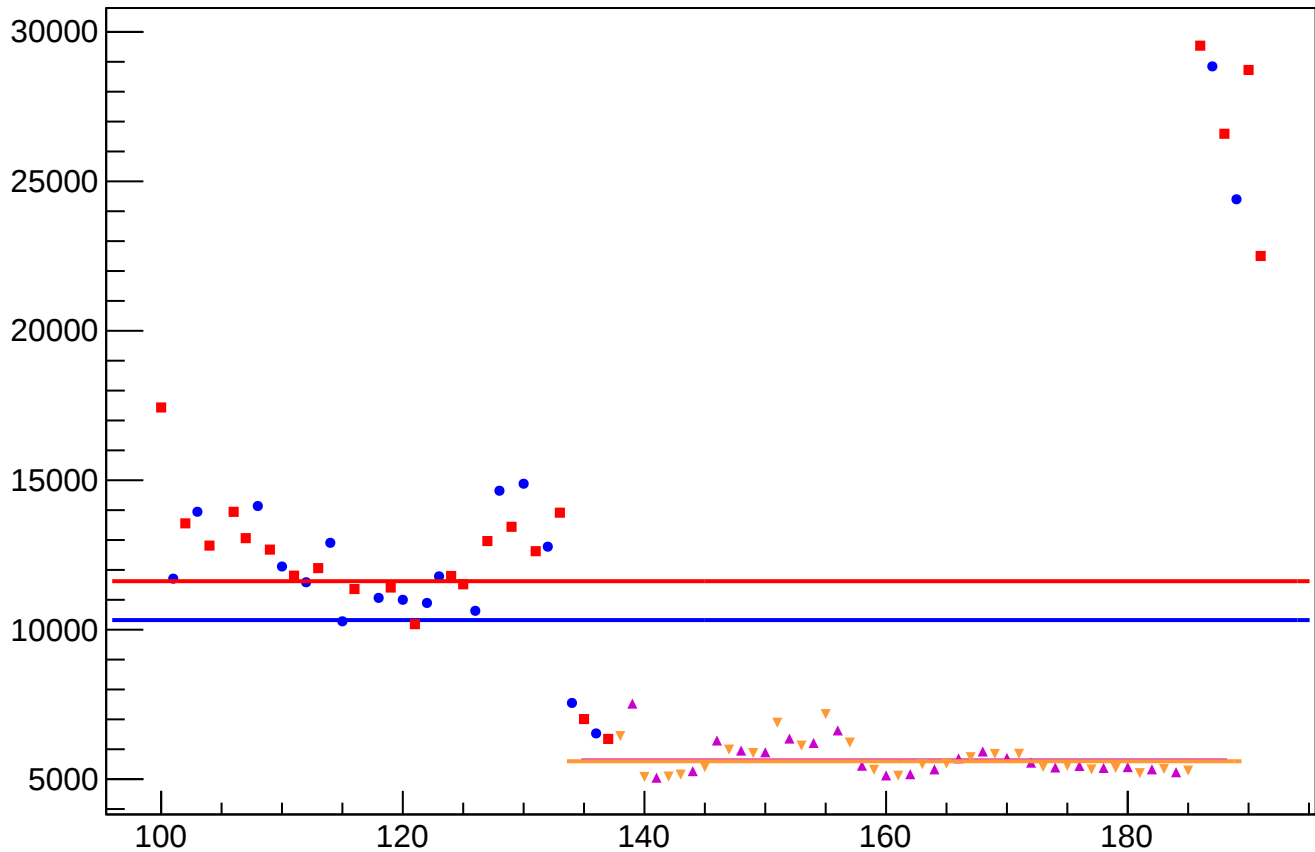
Right: 0.472 ± 2.888 $\chi^2/\text{NDF}: 45.7/41$

In: 0.700 ± 1.287 $\chi^2/\text{NDF}: 55.1/41$

Out: 5.189 ± 1.251 $\chi^2/\text{NDF}: 82.9/47$

All: 3.008 ± 0.897 $\chi^2/\text{NDF}: 144.2/89$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10321.631 $\pm$ 2.856 χ^2 /NDF: 1446760.2/18

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

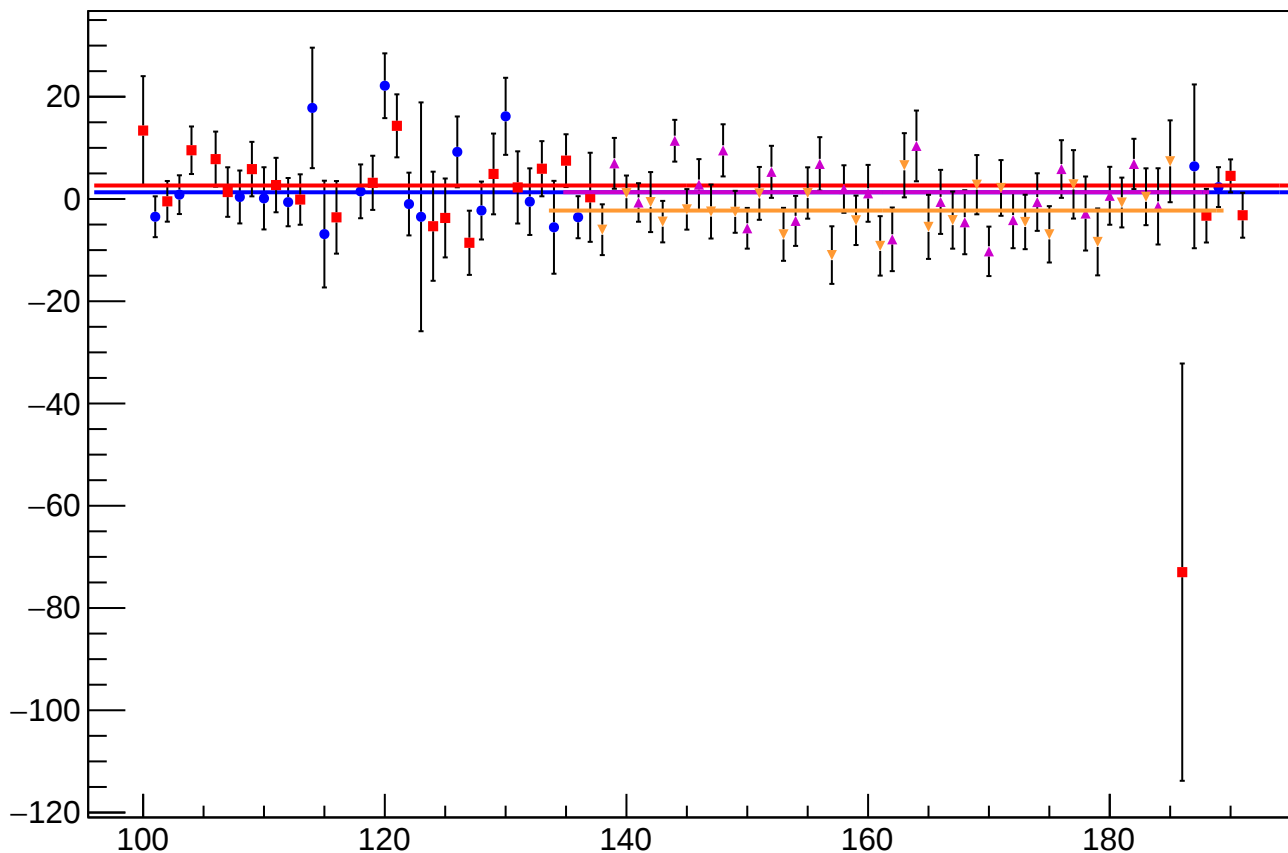
Right: 10957.520 $\pm$ 2.042 χ^2 /NDF: 3572329.0/41

In: 6101.867 $\pm$ 0.910 χ^2 /NDF:4148294.7/41

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

All: 6127.104 $\pm$ 0.634 χ^2 /NDF: 10318643.3/8

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.312 ± 1.311 $\chi^2/\text{NDF}: 23.1/18$

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

Right Out: 2.638 ± 1.158 $\chi^2/\text{NDF}: 22.5/22$

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

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

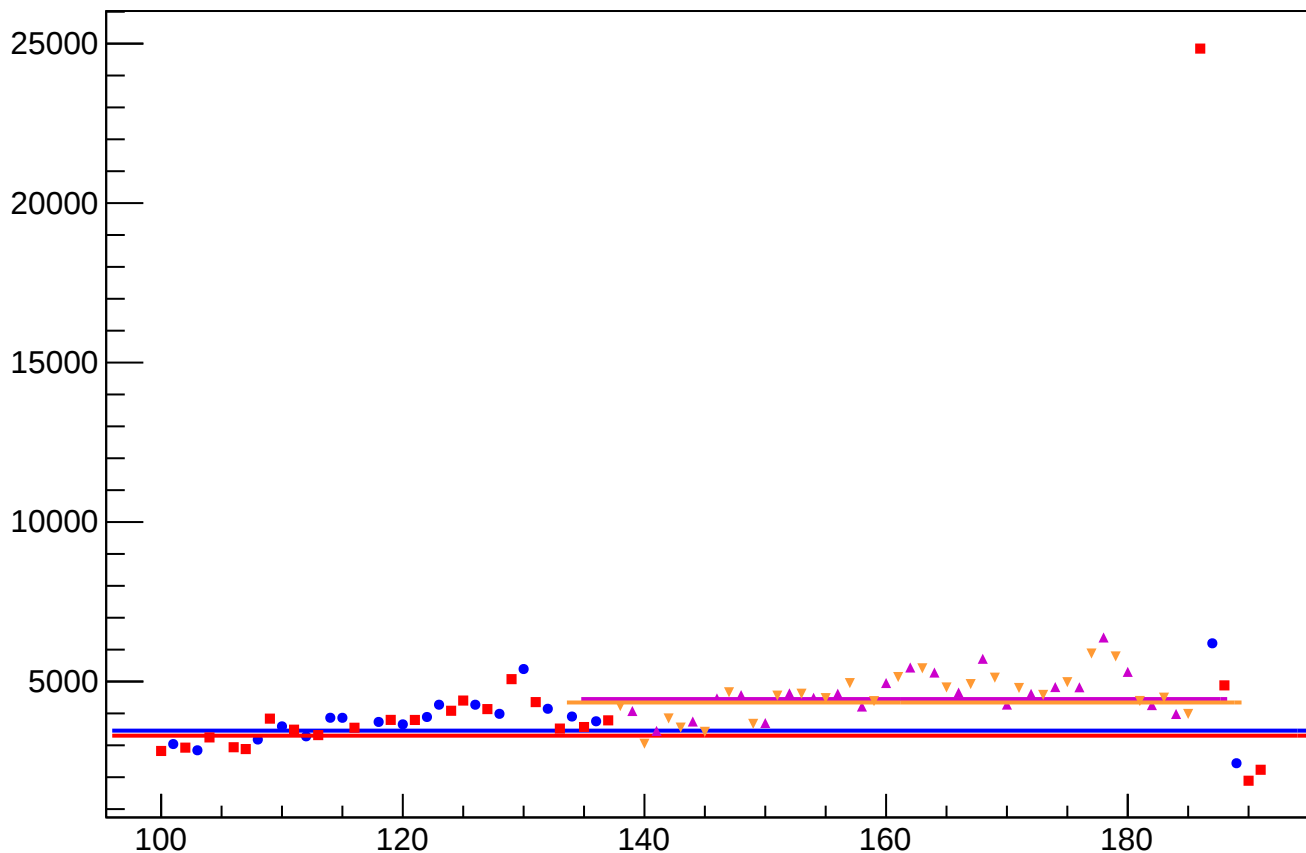
Right: 2.057 ± 0.868 $\chi^2/\text{NDF}: 46.1/41$

In: 1.322 ± 0.835 $\chi^2/\text{NDF}: 53.7/41$

Out: -0.097 ± 0.770 $\chi^2/\text{NDF}: 48.0/47$

All: 0.555 ± 0.566 $\chi^2/\text{NDF}: 103.2/89$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3460.185 +/- 0.927 χ^2/NDF : 518549.1/18

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

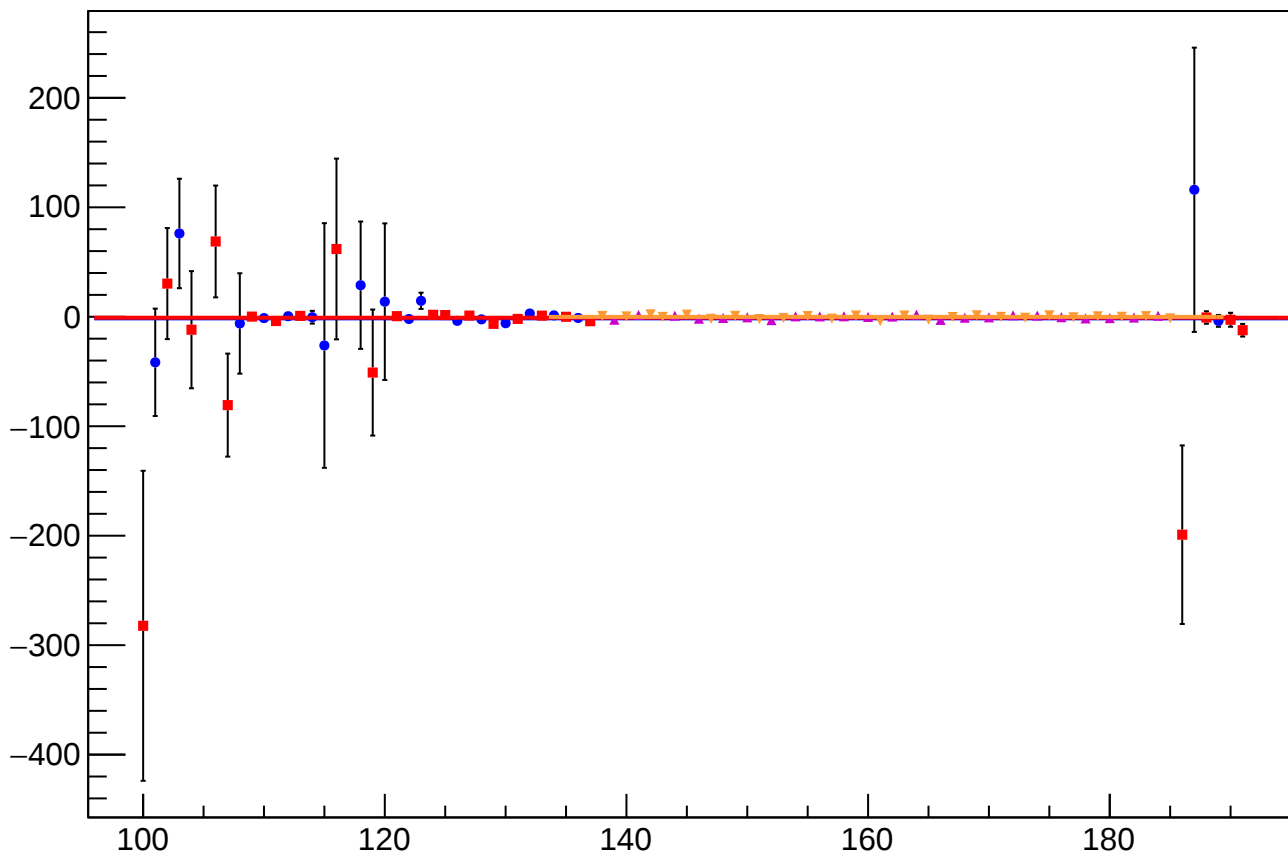
Right: 3371.496 +/- 0.614 χ^2/NDF : 2123286.4/41

In: 4049.081 +/- 0.590 χ^2/NDF : 1889717.5/41

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

All: 3959.367 +/- 0.400 χ^2/NDF : 5415009.5/89

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.443 ± 0.743 χ^2/NDF : 17.7/18

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

Right Out: -0.873 ± 0.698 χ^2/NDF : 31.4/22

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

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

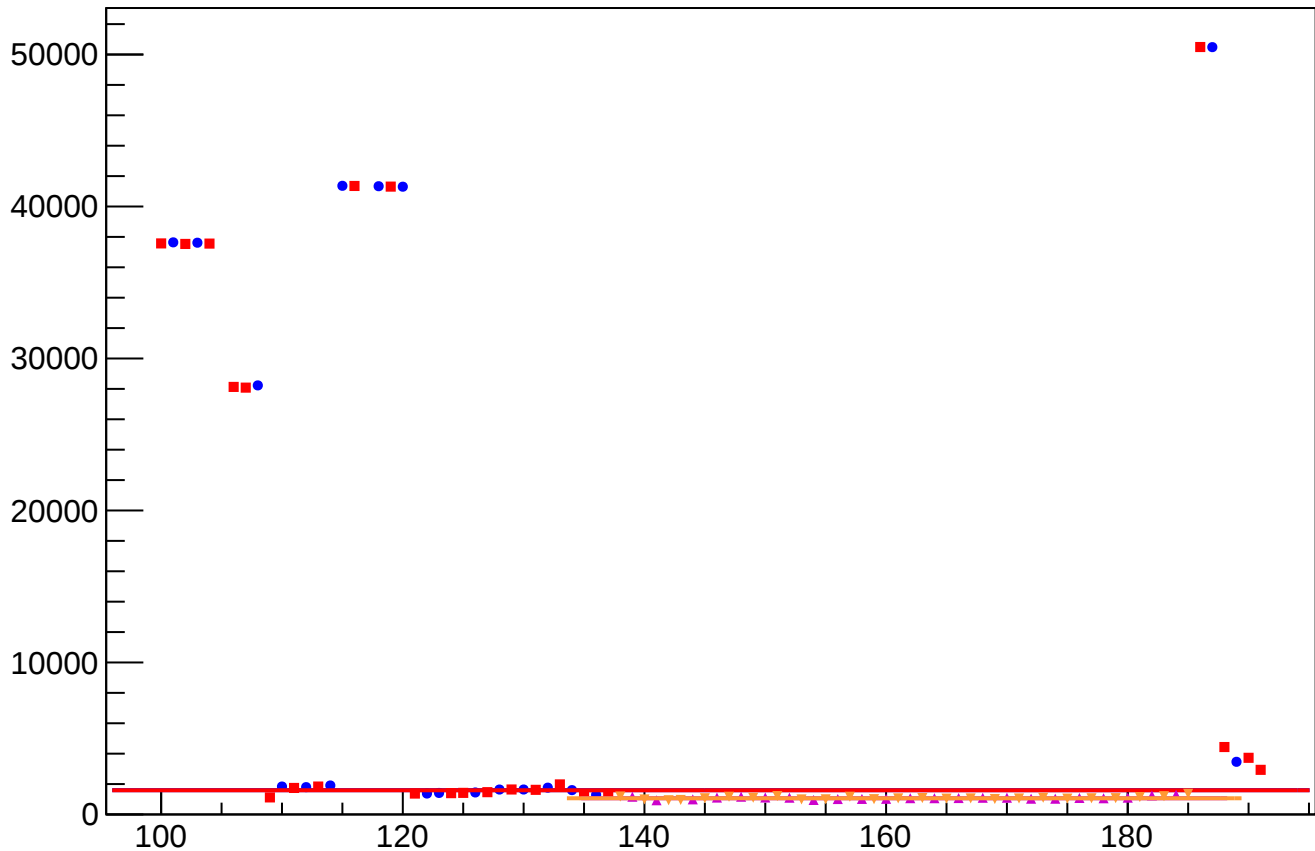
Right: -1.140 ± 0.509 χ^2/NDF : 49.5/41

In: -0.386 ± 0.243 χ^2/NDF : 47.2/41

Out: -0.180 ± 0.235 χ^2/NDF : 67.0/47

All: -0.279 ± 0.169 χ^2/NDF : 114.6/89

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1598.180 ± 0.526 $\chi^2/\text{NDF}: 5280355.9/18$

Left Out: 1064.701 ± 0.176 $\chi^2/\text{NDF}: 186511.5/24$

Right Out: 1591.625 ± 0.494 $\chi^2/\text{NDF}: 6477096.3/22$

Left In: 1066.255 ± 0.182 $\chi^2/\text{NDF}: 164232.1/22$

Left: 1065.454 ± 0.126 $\chi^2/\text{NDF}: 350781.3/47$

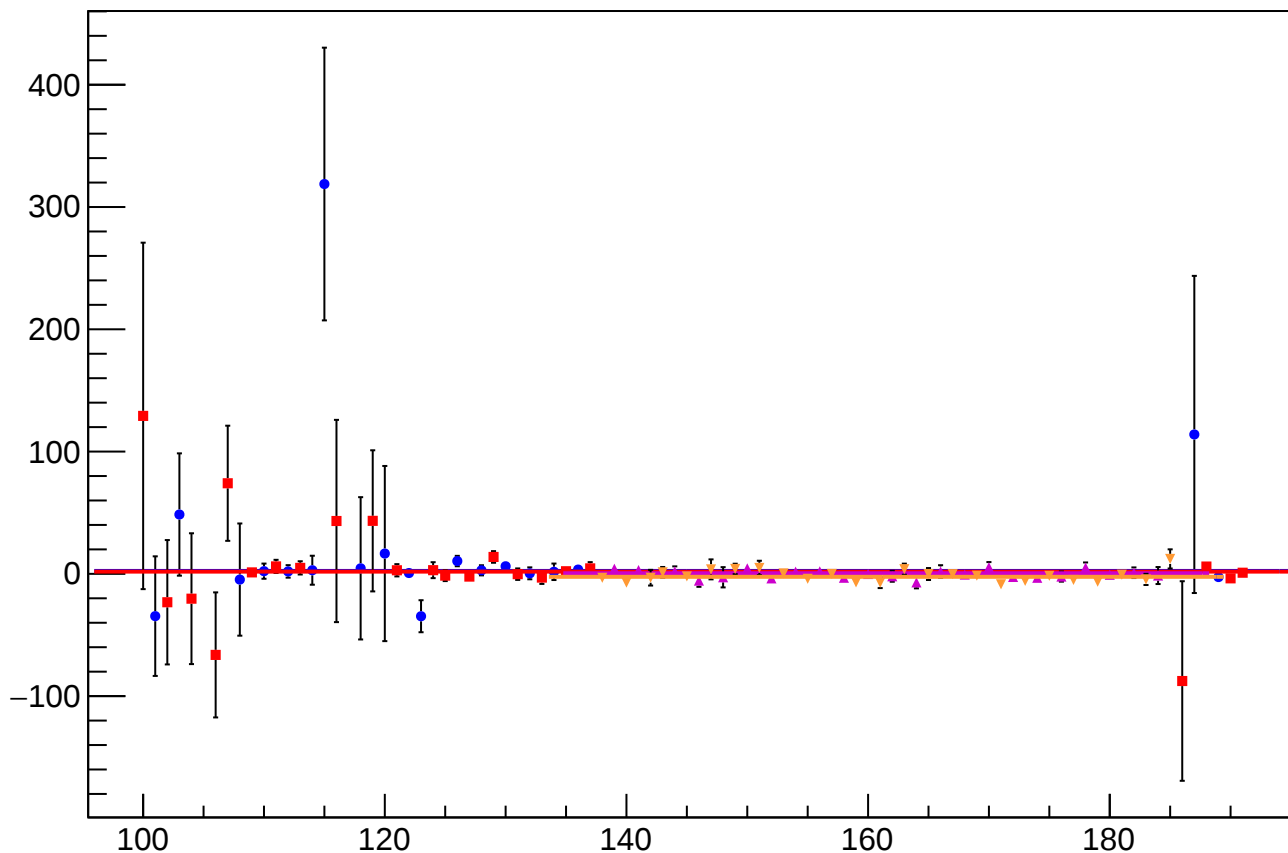
Right: 1594.697 ± 0.360 $\chi^2/\text{NDF}: 11757534.8/41$

In: 1123.019 ± 0.172 $\chi^2/\text{NDF}: 6359135.2/41$

Out: 1124.196 ± 0.166 $\chi^2/\text{NDF}: 7674504.2/47$

All: 1123.628 ± 0.119 $\chi^2/\text{NDF}: 14033663.7/8$

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 2.365 $\pm$ 1.224 χ^2 /NDF: 25.9/18

Left Out: -2.422 $\pm$ 0.811 χ^2 /NDF:21.2/24

Right Out: 1.832 $\pm$ 1.070 χ^2 /NDF: 21.4/22

Left In: 0.468 $\pm$ 0.843 χ^2 /NDF:15.5/22

Left: -1.033 $\pm$ 0.584 χ^2 /NDF: 42.8/47

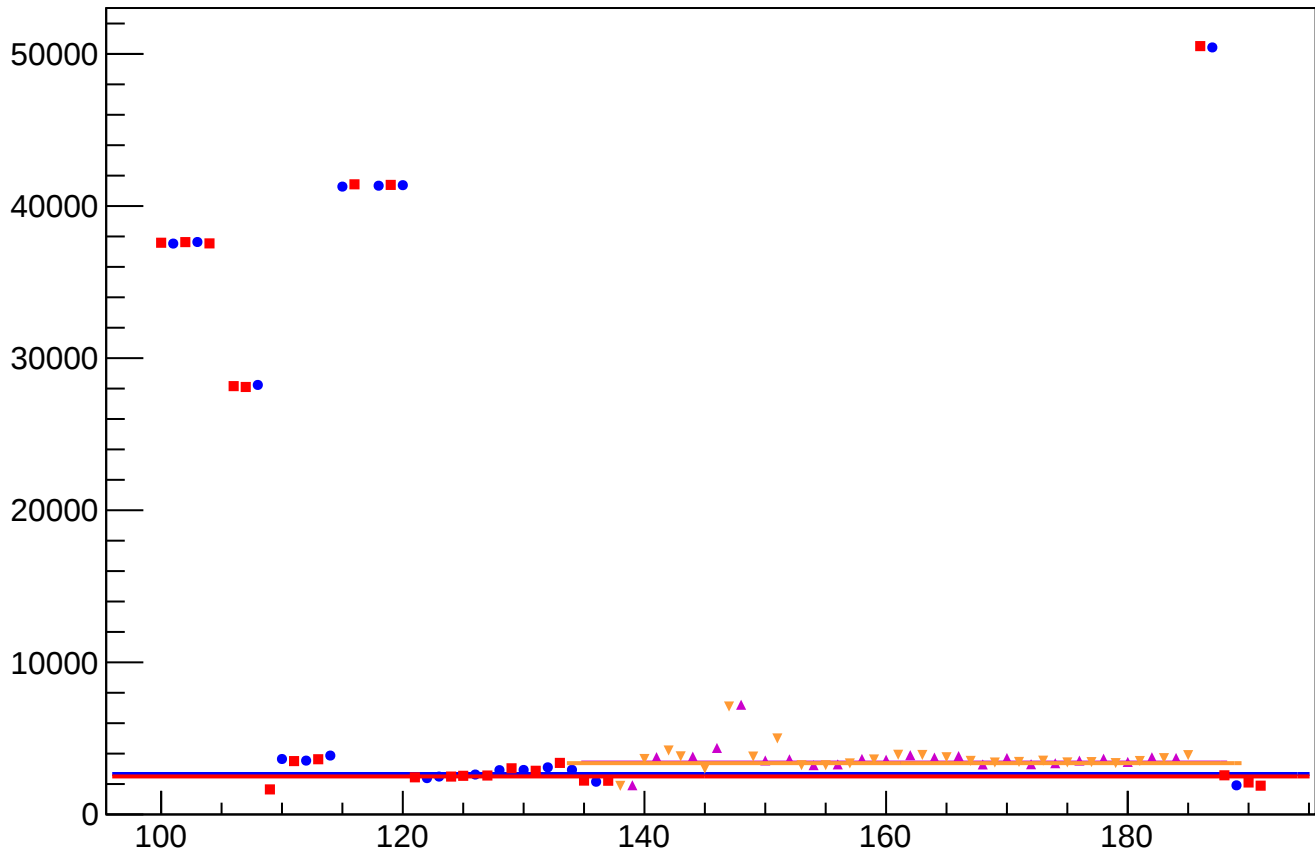
Right: 2.063 $\pm$ 0.806 χ^2 /NDF: 47.4/41

In: 1.078 $\pm$ 0.694 χ^2 /NDF:43.0/41

Out: -0.870 $\pm$ 0.646 χ^2 /NDF:52.7/47

All: 0.034 $\pm$ 0.473 χ^2 /NDF: 99.9/89

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2659.830+/-0.866 χ^2/NDF : 4977201.2/18

Left Out: 3372.958+/-0.573 χ^2/NDF : 1656864.7/24

Right Out: 2499.064+/-0.756 χ^2/NDF : 5630887.9/22

Left In: 3411.924+/-0.596 χ^2/NDF : 1434523.7/22

Left: 3391.680+/-0.413 χ^2/NDF : 3093609.1/47

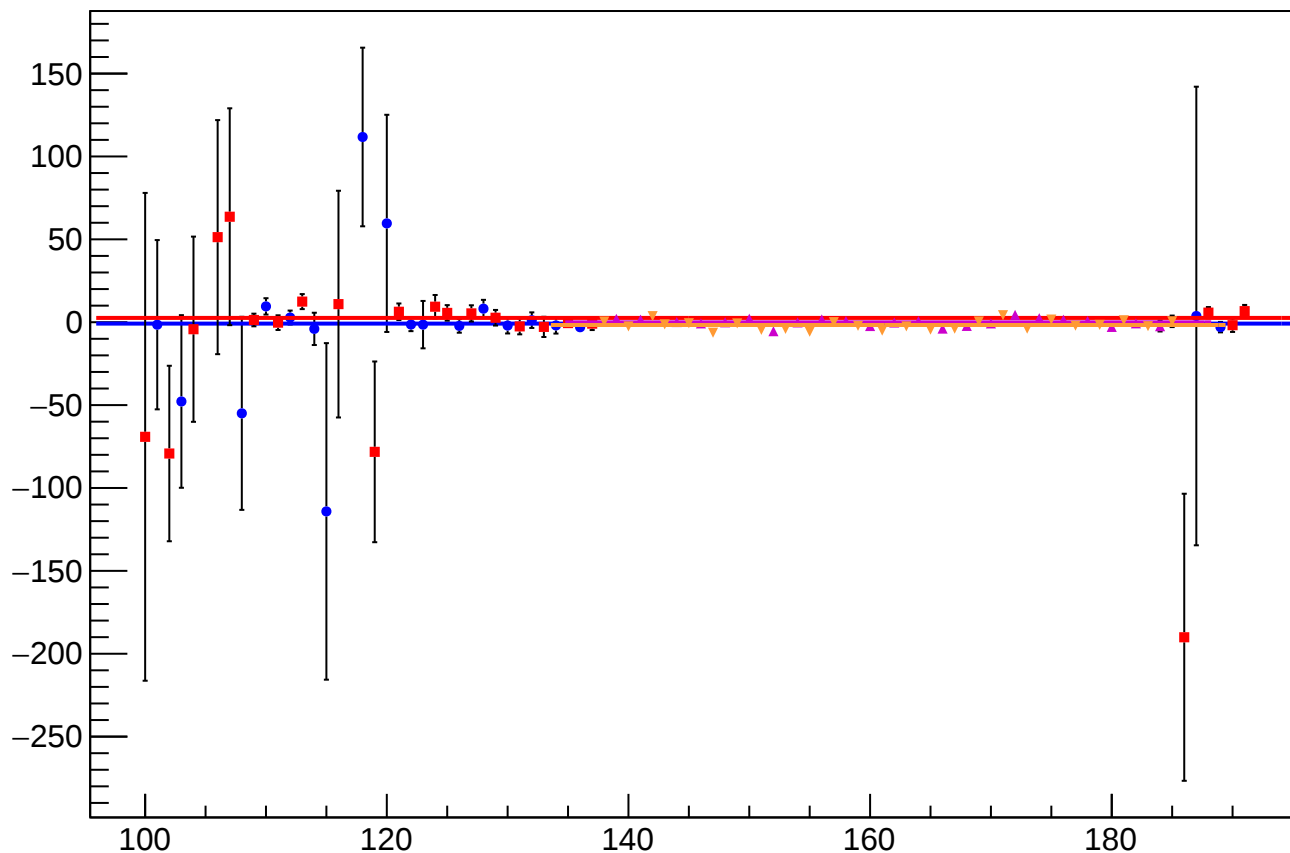
Right: 2568.676+/-0.570 χ^2/NDF : 10627644.6/41

In: 3170.074+/-0.491 χ^2/NDF : 6923812.8/41

Out: 3054.268+/-0.457 χ^2/NDF : 8135574.2/47

All: 3108.014+/-0.334 χ^2/NDF : 15089210.4/86

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.833 ± 1.139 χ^2/NDF : 18.5/18

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

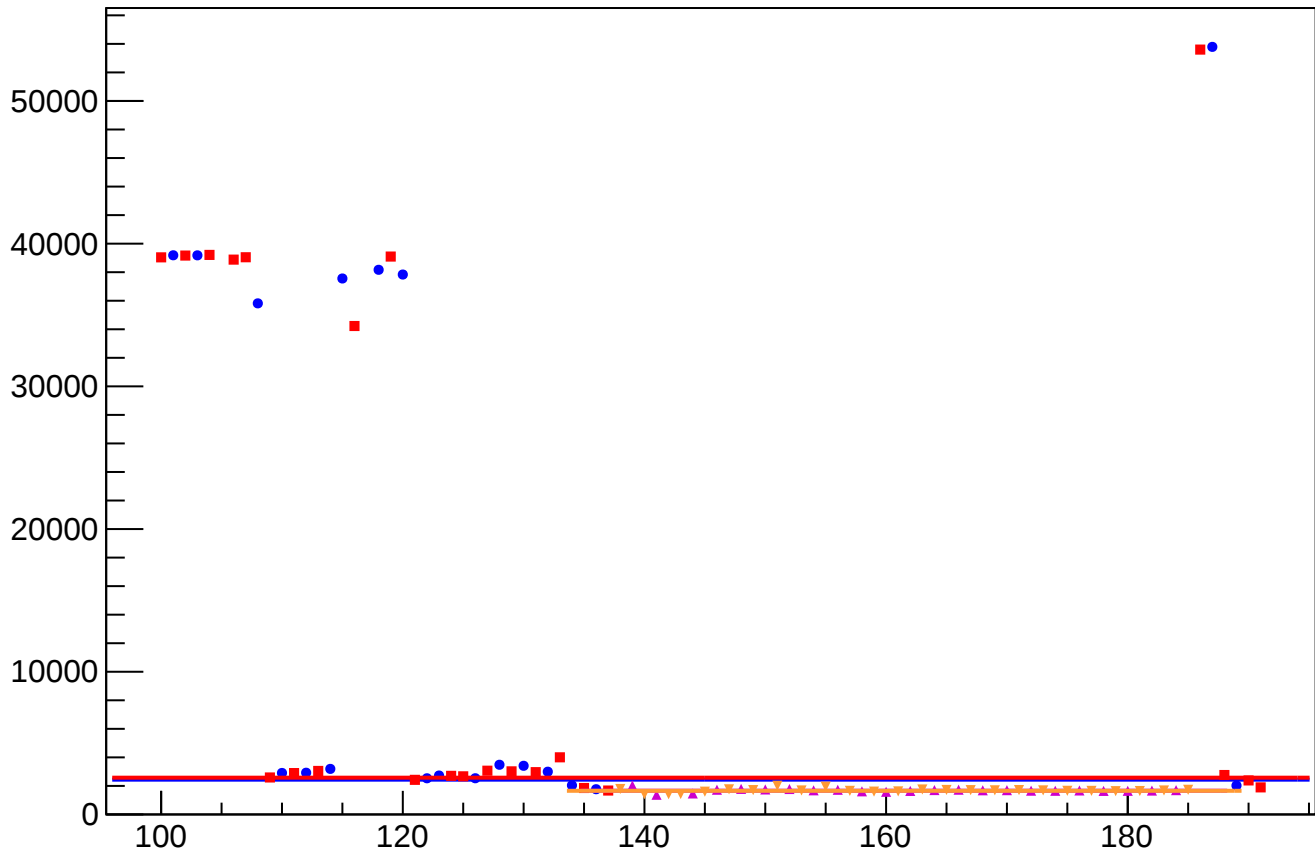
Right: 0.978 ± 0.783 χ^2/NDF : 49.2/41

In: -0.156 ± 0.378 χ^2/NDF : 47.1/41

Out: -1.182 ± 0.365 χ^2/NDF : 85.5/47

All: -0.687 ± 0.263 χ^2/NDF : 136.4/89

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2438.787 $\pm$ 0.805 χ^2 /NDF: 5202099.3/18

Left Out: 1657.770 $\pm$ 0.274 χ^2 /NDF: 223465.3/24

Right Out: 2577.007 $\pm$ 0.762 χ^2 /NDF: 5637275.2/22

Left In: 1663.620 $\pm$ 0.284 χ^2 /NDF: 178858.2/22

Left: 1660.599 $\pm$ 0.197 χ^2 /NDF: 402543.2/47

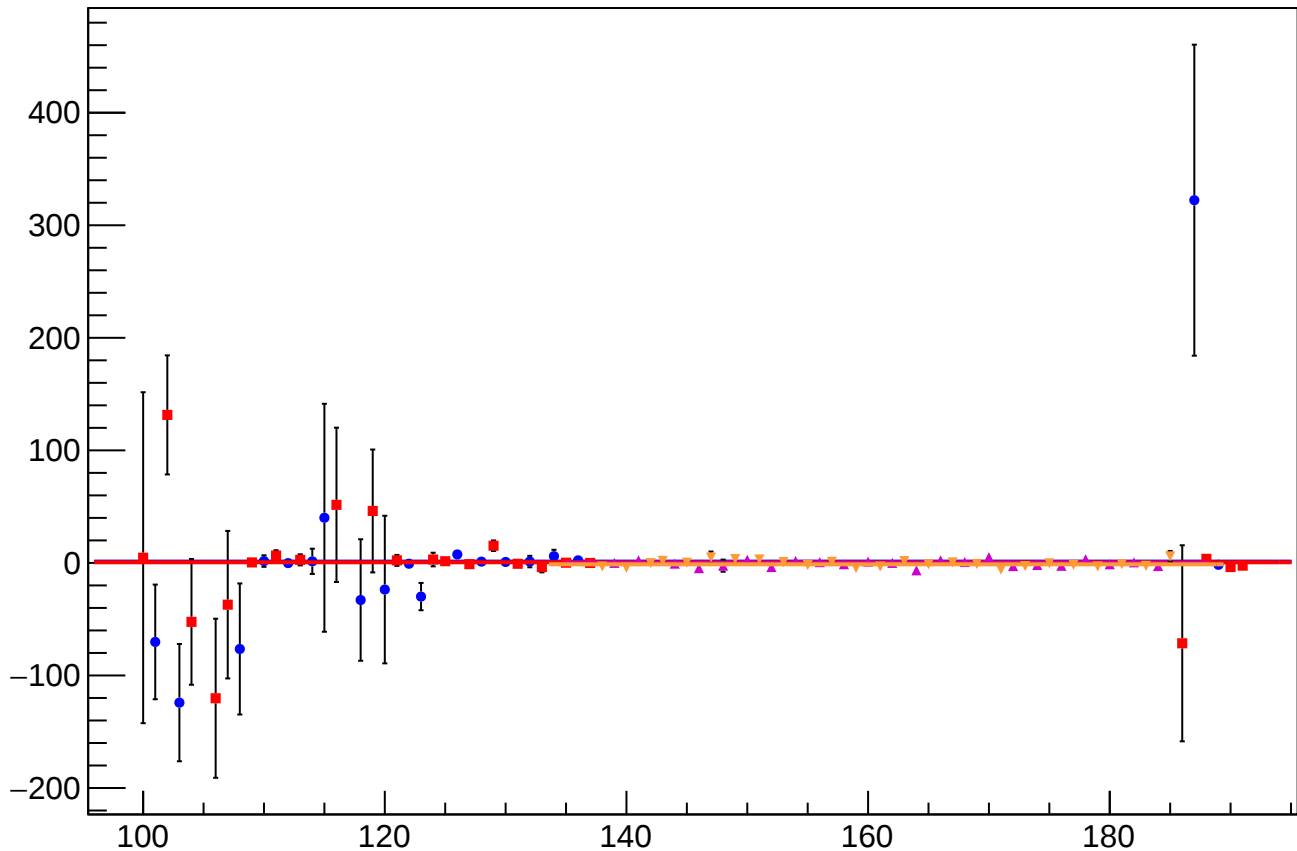
Right: 2511.687 $\pm$ 0.554 χ^2 /NDF: 10854911.8/41

In: 1749.140 $\pm$ 0.267 χ^2 /NDF: 6205274.1/41

Out: 1763.225 $\pm$ 0.258 χ^2 /NDF: 7148081.0/47

All: 1756.431 $\pm$ 0.186 χ^2 /NDF: 13354790.5/86

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.143 ± 1.049 $\chi^2/\text{NDF}: 27.5/18$

Left Out: -1.251 ± 0.535 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 0.576 ± 0.892 $\chi^2/\text{NDF}: 30.2/22$

Left In: -0.098 ± 0.541 $\chi^2/\text{NDF}: 19.3/22$

Left: -0.681 ± 0.380 $\chi^2/\text{NDF}: 43.3/47$

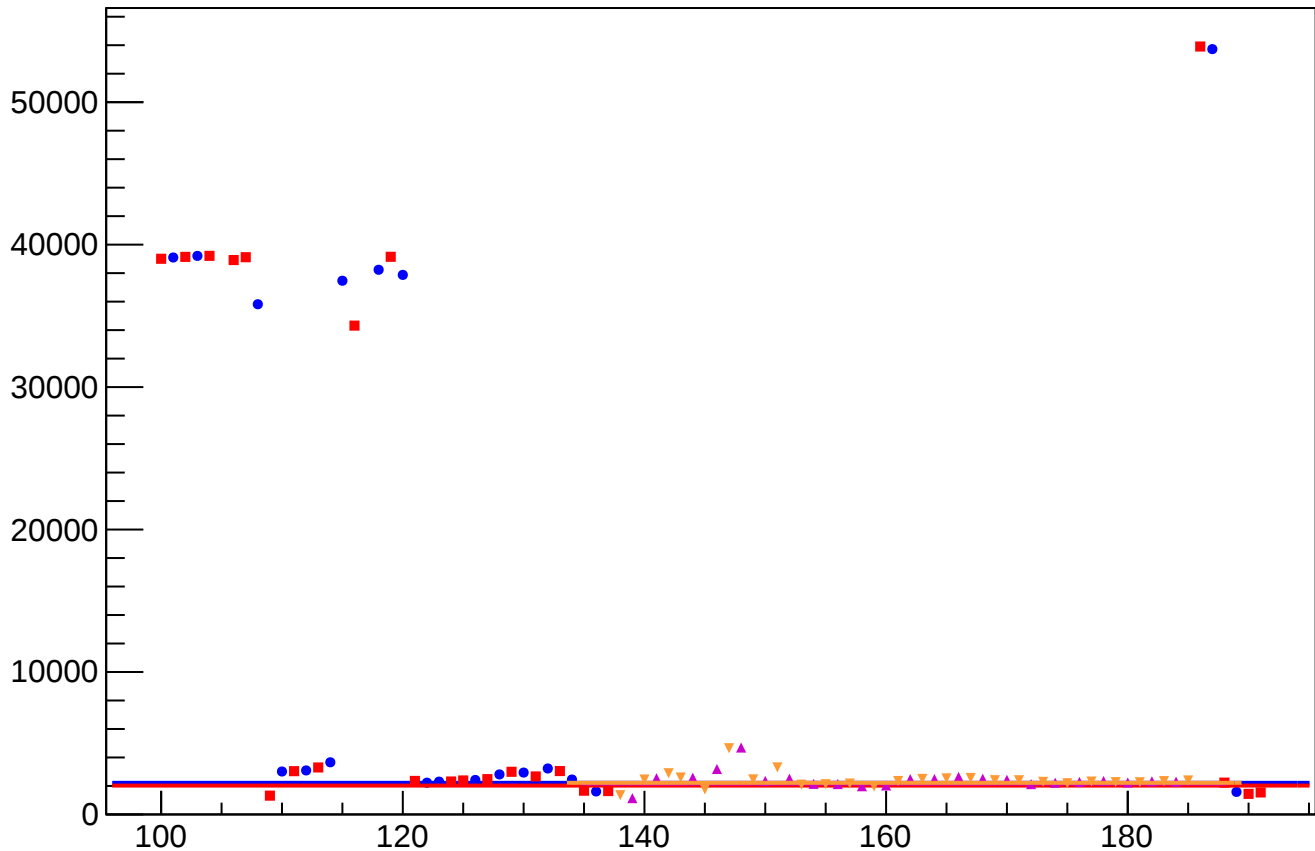
Right: 0.814 ± 0.679 $\chi^2/\text{NDF}: 57.9/41$

In: 0.163 ± 0.481 $\chi^2/\text{NDF}: 47.9/41$

Out: -0.767 ± 0.459 $\chi^2/\text{NDF}: 55.0/47$

All: -0.324 ± 0.332 $\chi^2/\text{NDF}: 104.9/89$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2220.747+/-0.742 χ^2/NDF : 5426885.7/18

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

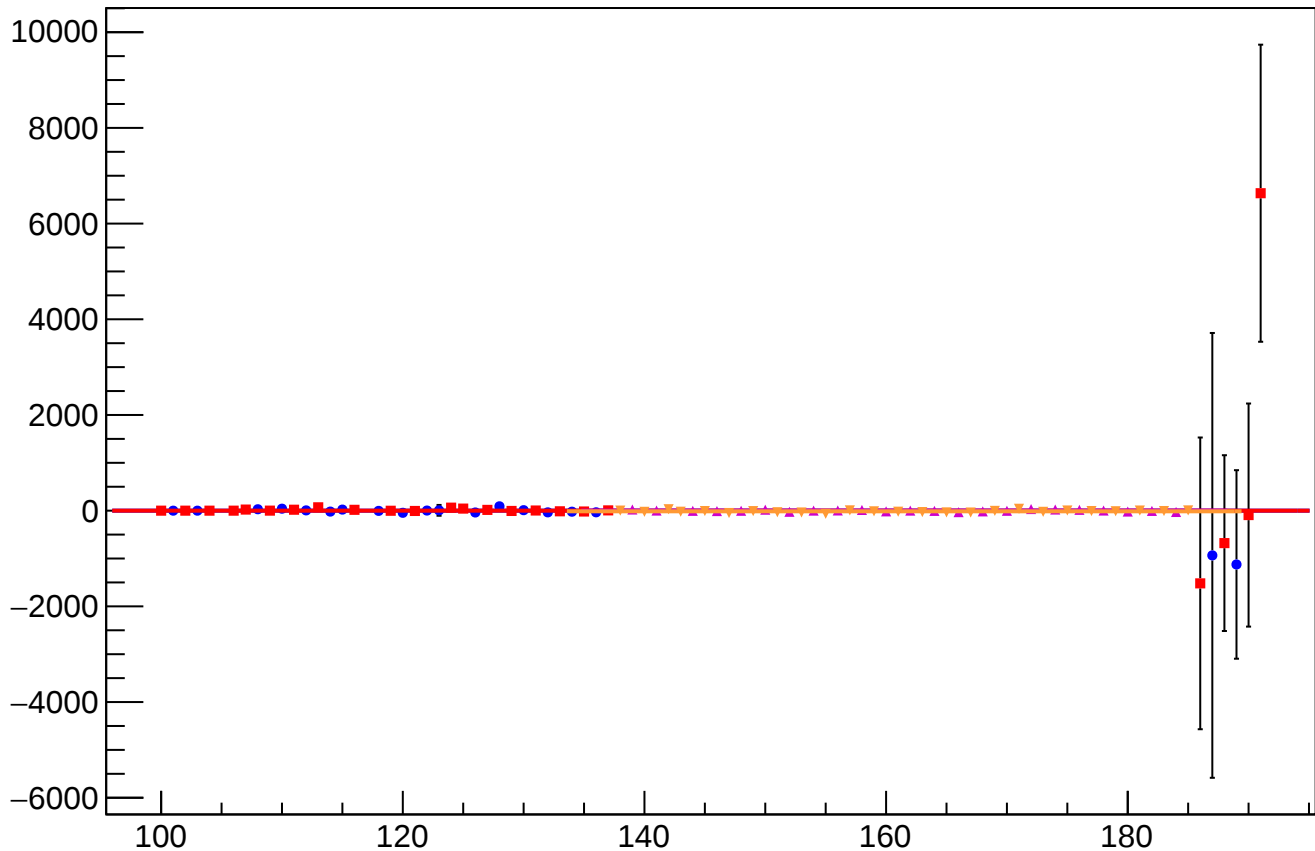
Right: 2108.249+/-0.480 χ^2/NDF : 11679646.4/41

In: 2180.233+/-0.340 χ^2/NDF : 7405535.2/41

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

All: 2175.095+/-0.235 χ^2/NDF : 15111962.4/86

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 17.0/18

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

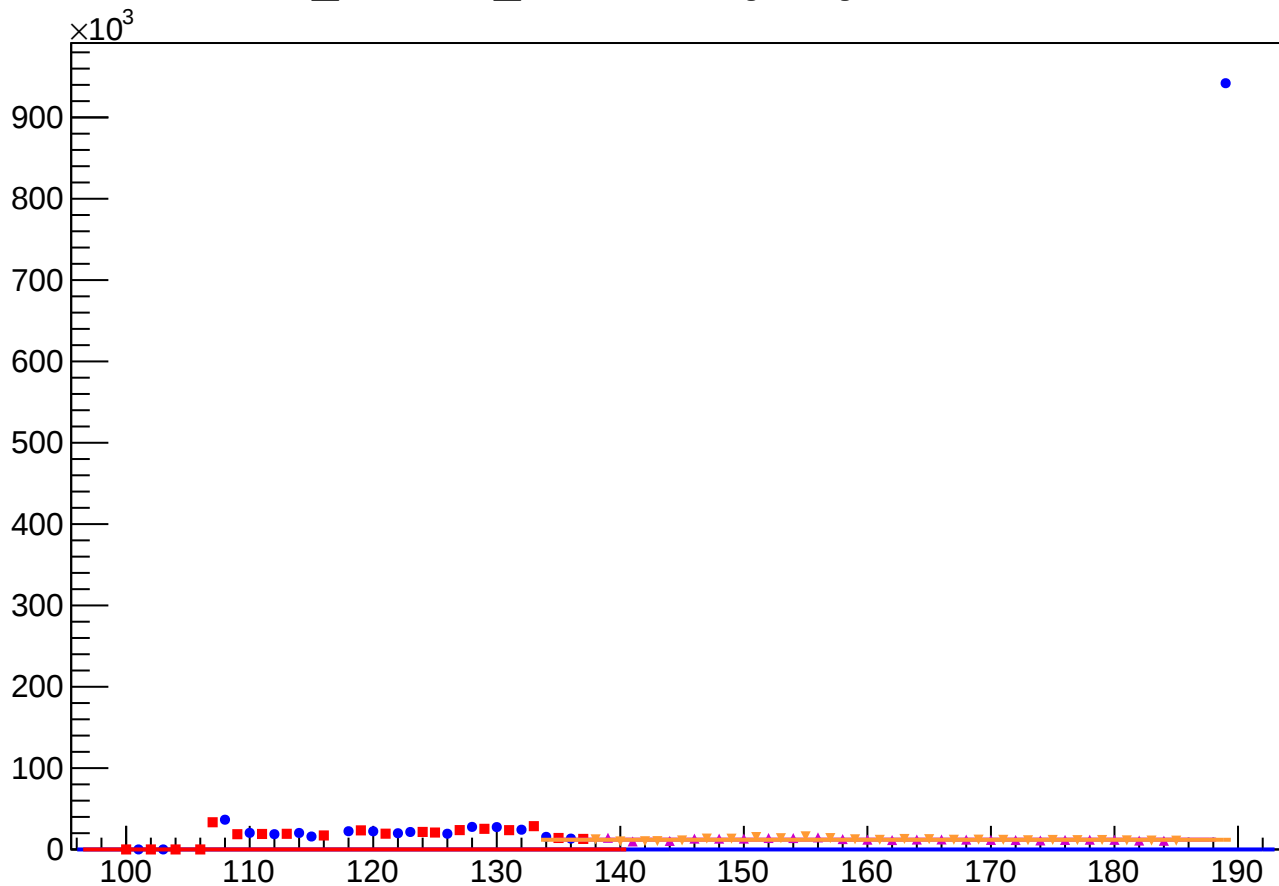
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 37.9/41

In: 0.013 $\pm$ 0.017 χ^2 /NDF: 46.0/41

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

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 148.8/89

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

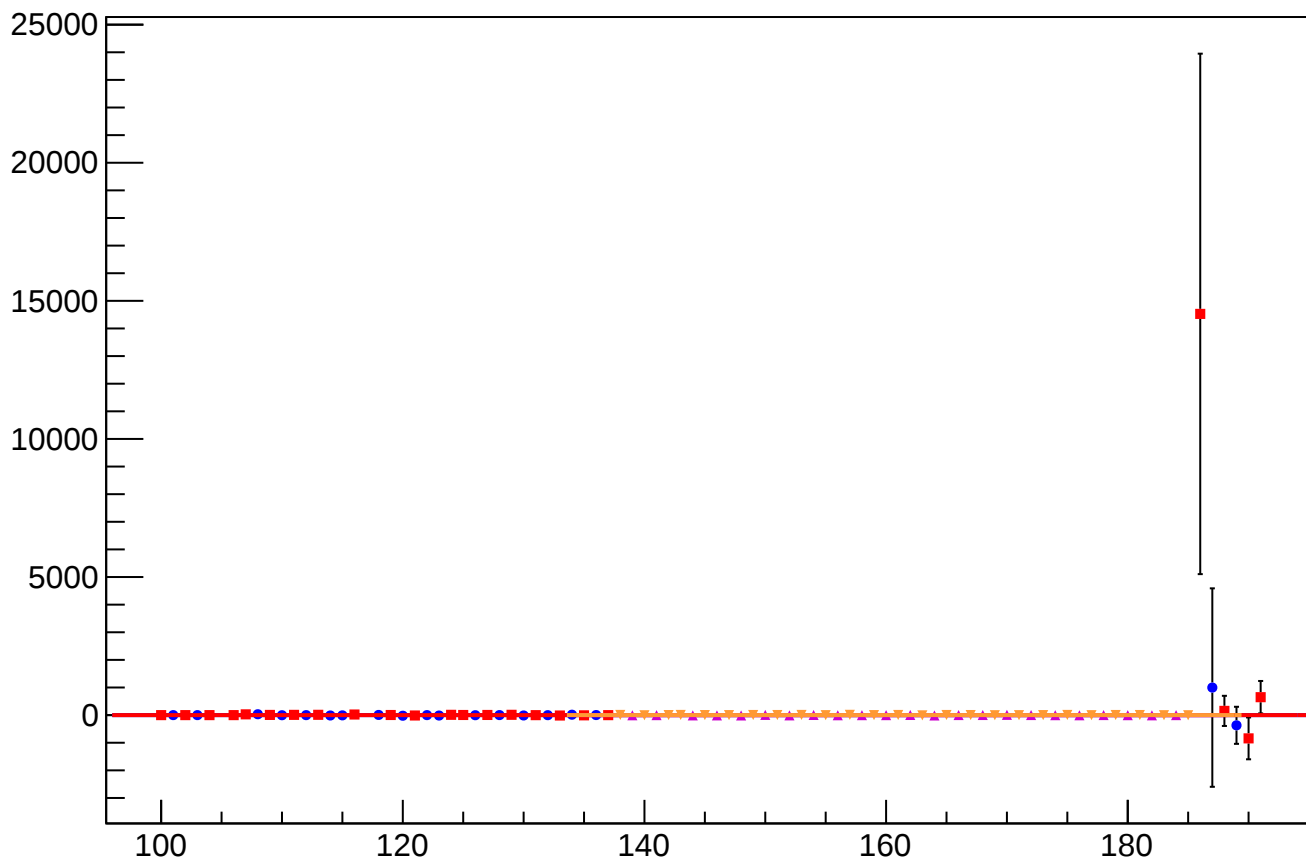
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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: 13.3/18

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

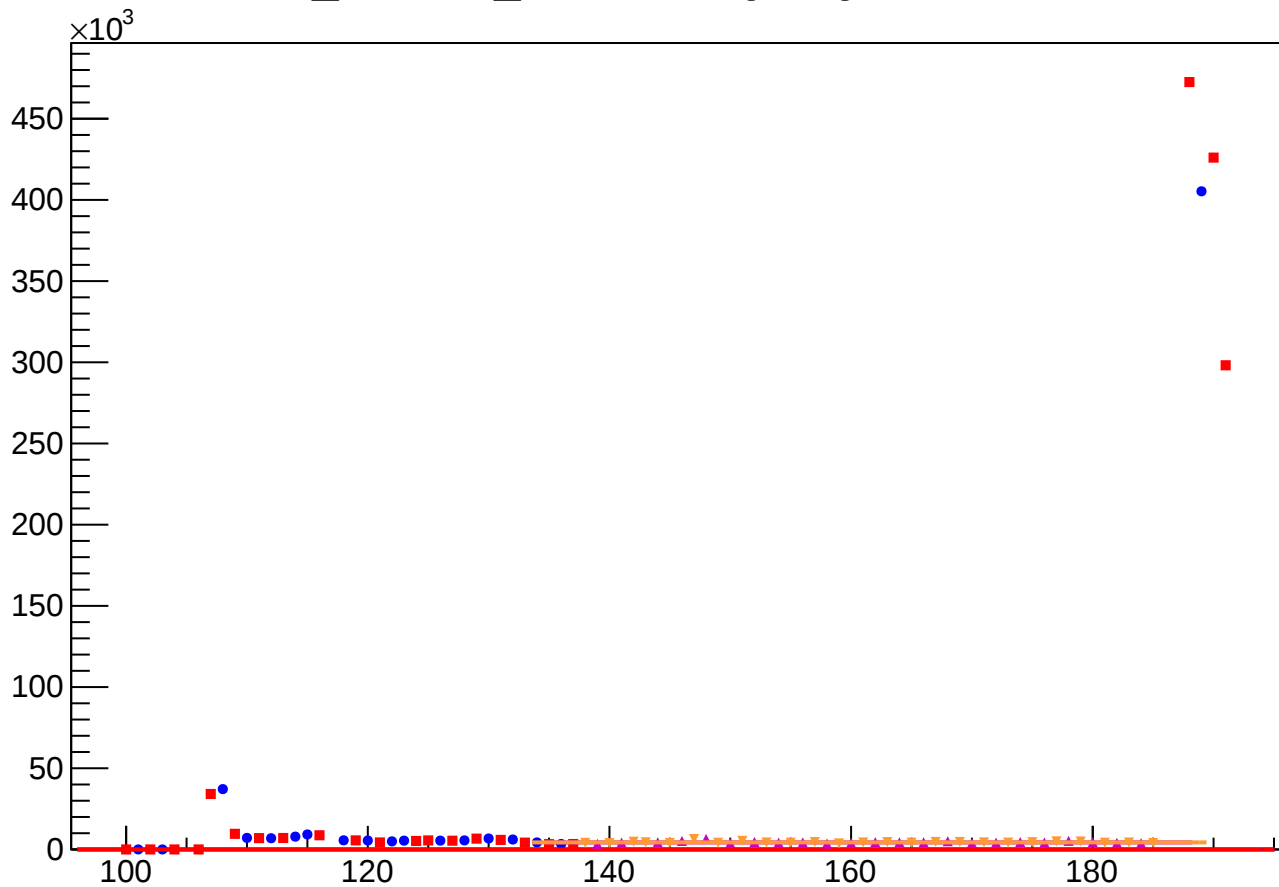
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 38.3/41

In: 0.001 $\pm$ 0.009 χ^2 /NDF:49.7/41

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

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 95.7/89

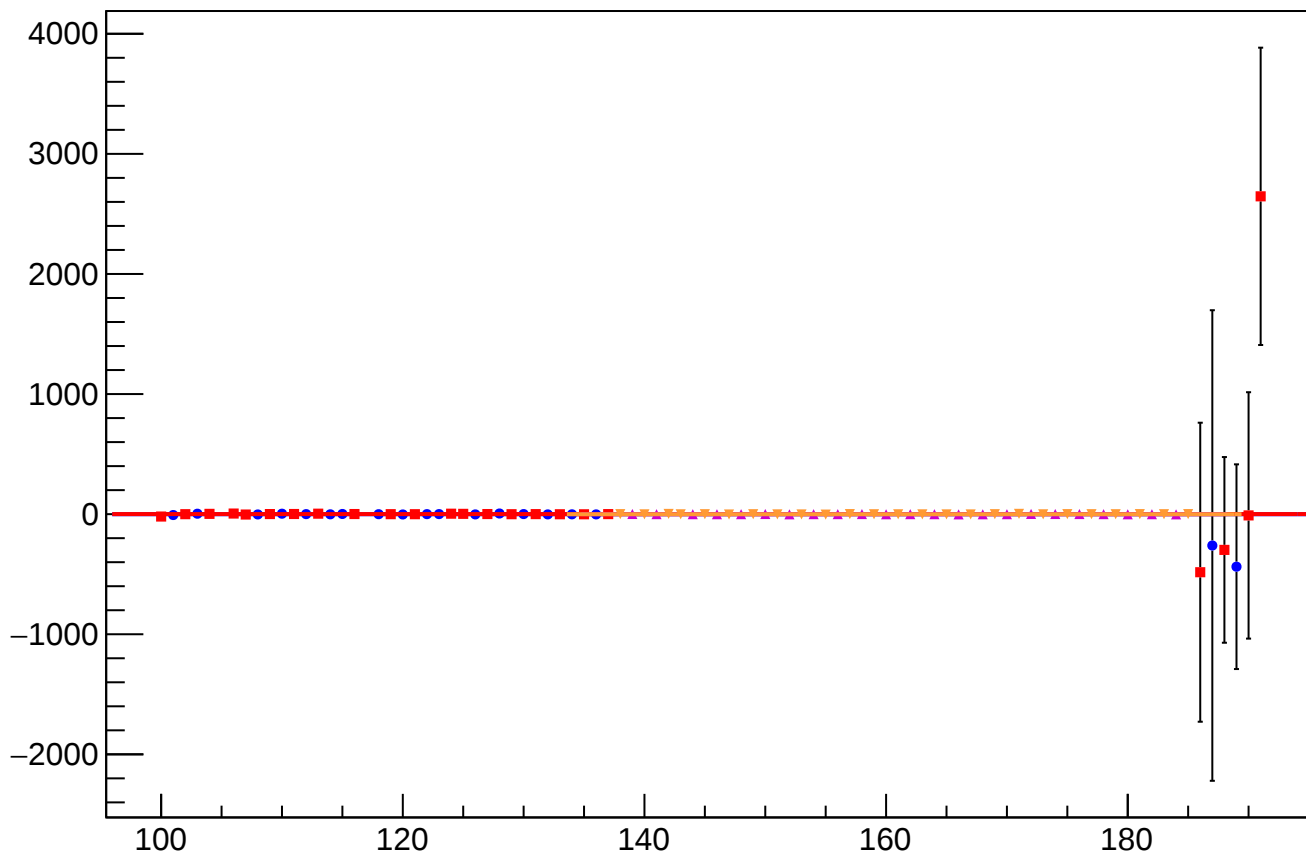
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 11774538.3/17
 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 : 25507690.1/39
 In: 10.271 ± 0.007 χ^2/NDF : 46106286.2/40
 Out: 10.165 ± 0.006 χ^2/NDF : 50162233.6/46
 All: 10.215 ± 0.004 χ^2/NDF : 96268660.0/87

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 χ^2/NDF : 23.0/18

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

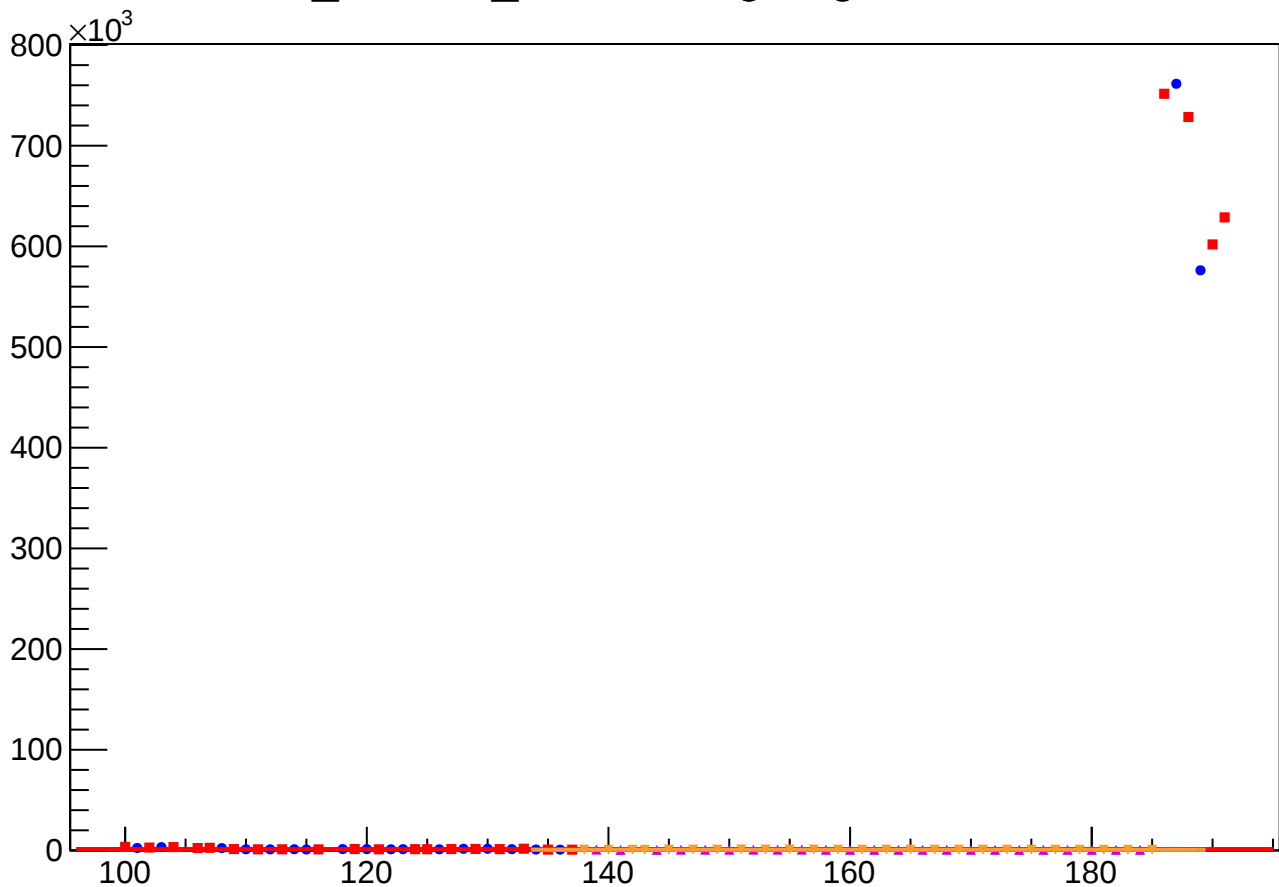
Right: -0.063 ± 0.348 χ^2/NDF : 44.7/41

In: -0.063 ± 0.161 χ^2/NDF : 54.5/41

Out: -0.638 ± 0.156 χ^2/NDF : 83.6/47

All: -0.359 ± 0.112 χ^2/NDF : 144.6/89

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.352+/-0.342 χ^2/NDF : 2791883.2/18

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

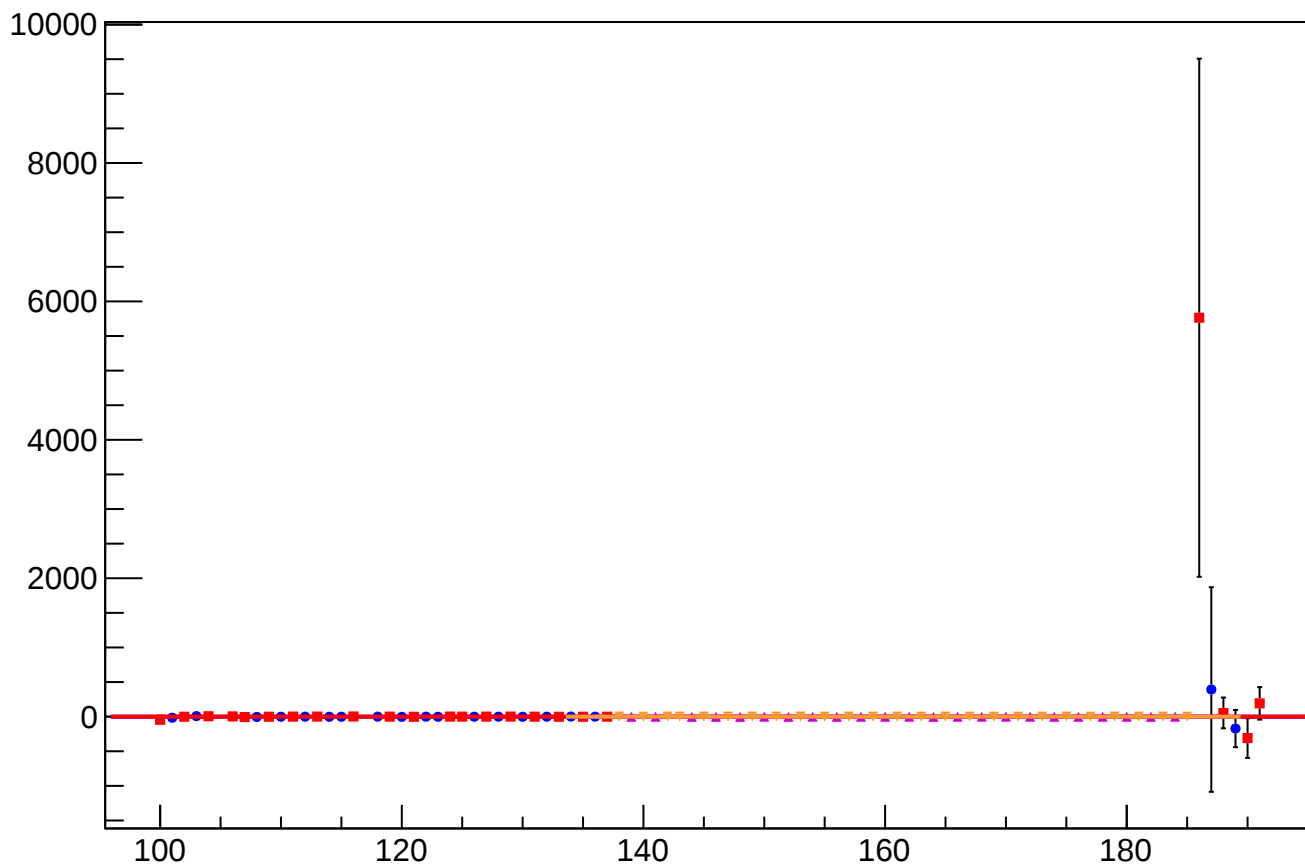
Right: 1206.454+/-0.246 χ^2/NDF : 8135154.4/41

In: 758.108+/-0.114 χ^2/NDF : 4738310.5/41

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

All: 756.111+/-0.079 χ^2/NDF : 12600740.9/89

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060±/0.269 χ^2 /NDF: 19.6/18

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

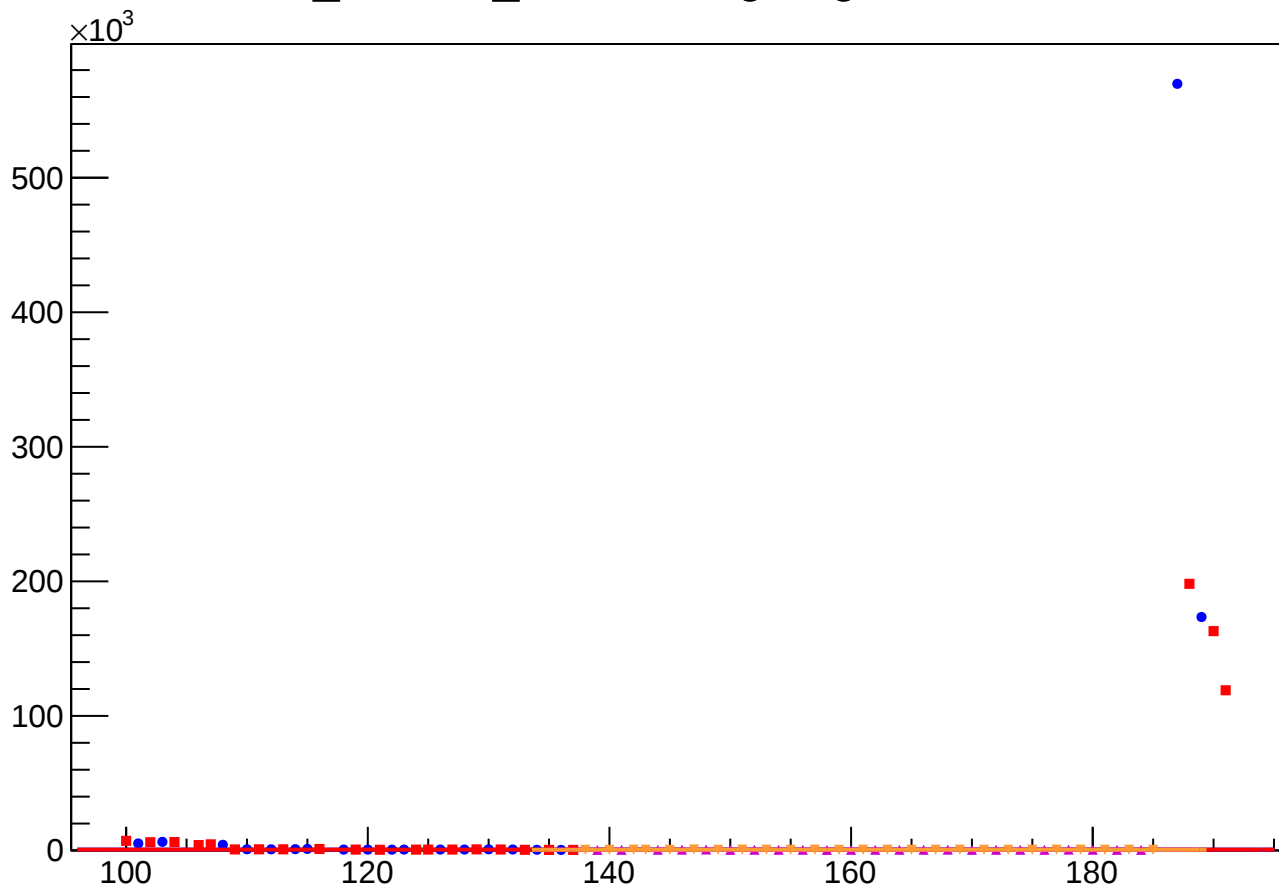
Right: -0.172±/0.189 χ^2 /NDF: 44.7/41

In: -0.114±/0.114 χ^2 /NDF:54.6/41

Out: 0.142±/0.111 χ^2 /NDF:45.9/47

All: 0.018±/0.080 χ^2 /NDF: 103.1/89

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.577 $\pm$ 0.190 χ^2 /NDF: 4257209.0/18

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

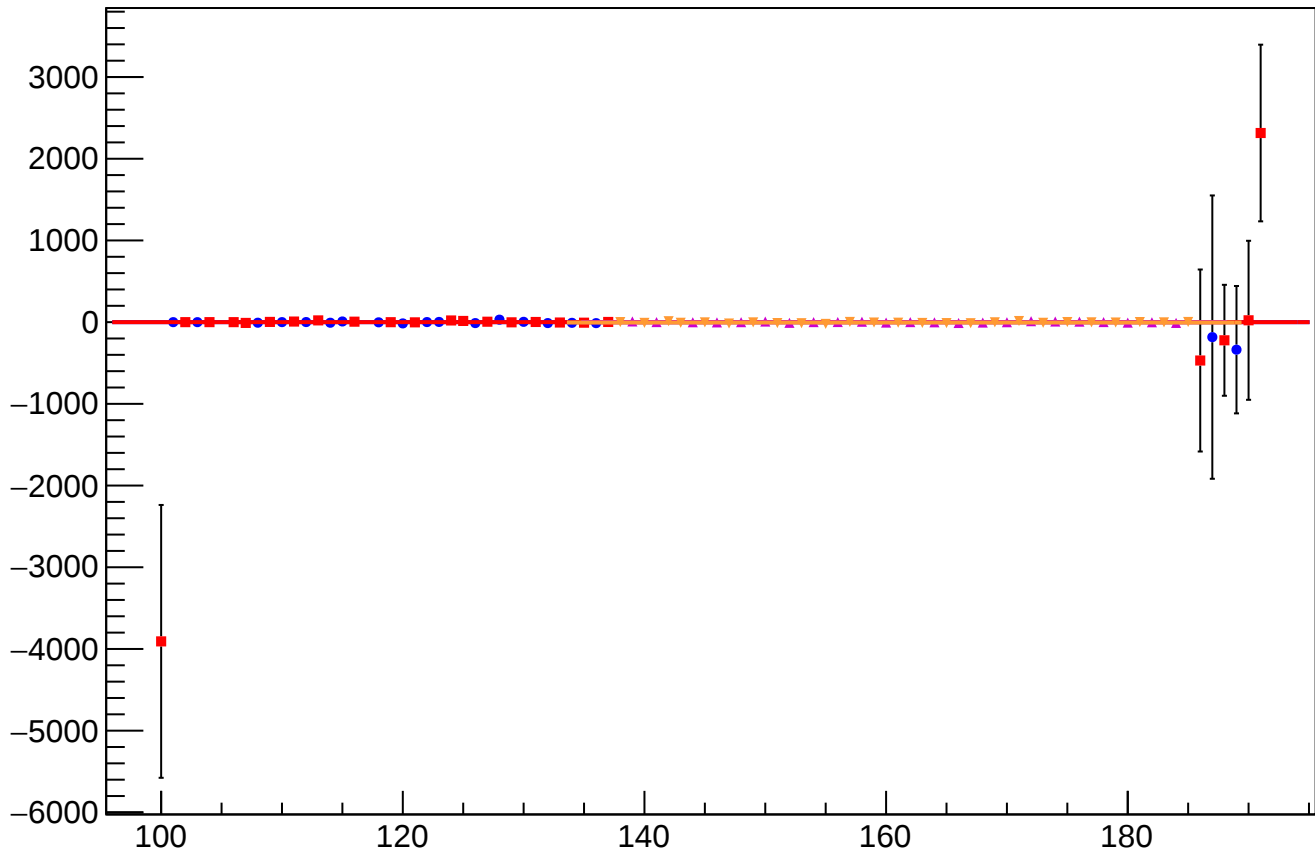
Right: 604.395 $\pm$ 0.133 χ^2 /NDF: 10542711.4/40

In: 536.721 $\pm$ 0.081 χ^2 /NDF: 4863899.7/41

Out: 535.875 $\pm$ 0.079 χ^2 /NDF: 6754649.7/46

All: 536.287 $\pm$ 0.056 χ^2 /NDF: 11618605.8/88

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.2/18

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

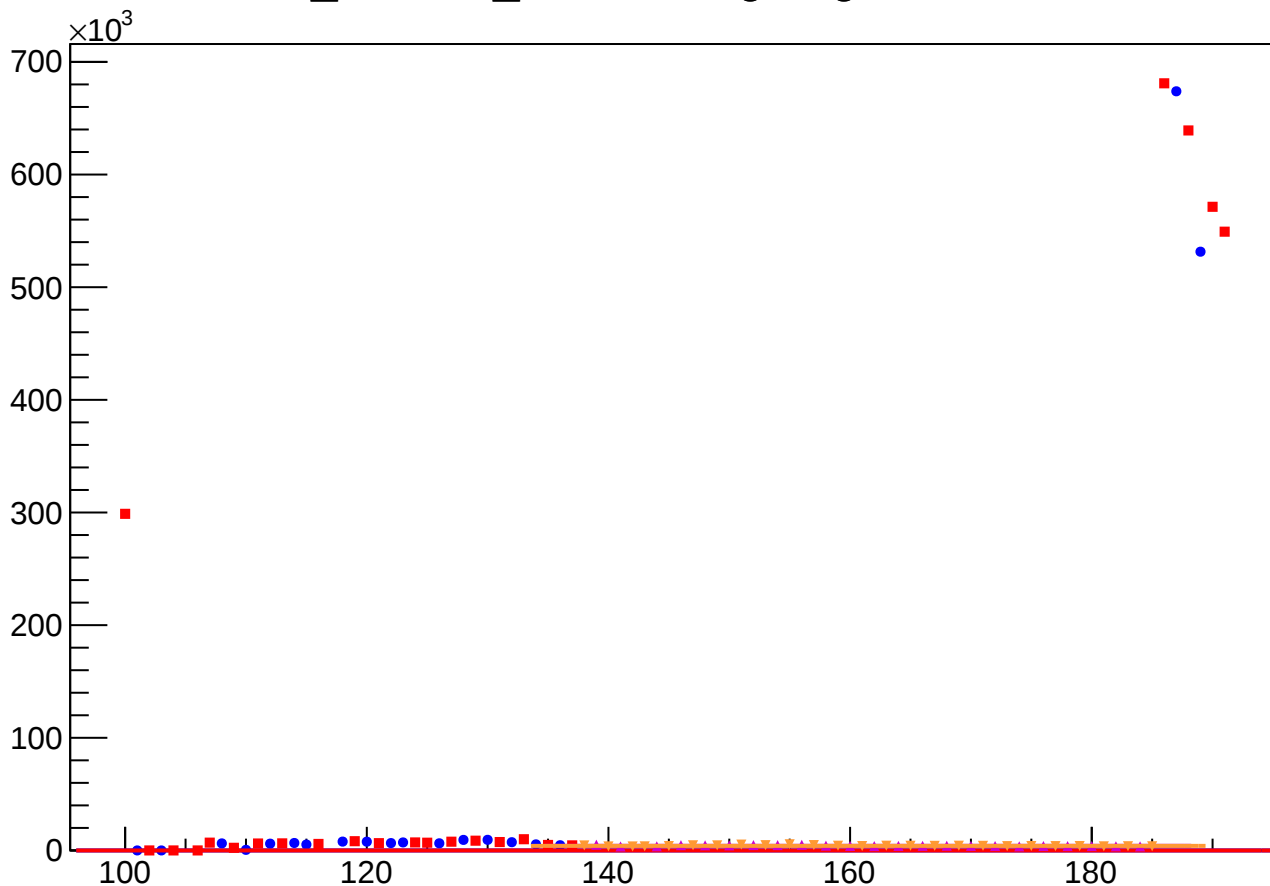
Right: 0.004 ± 0.014 χ^2/NDF : 41.3/41

In: -0.022 ± 0.021 χ^2/NDF : 45.7/41

Out: 0.025 ± 0.020 χ^2/NDF : 102.9/47

All: 0.003 ± 0.014 χ^2/NDF : 151.2/89

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.340 $\pm$ 0.015 χ^2/NDF : 11689269.1/18

Left Out: 4075.147 $\pm$ 0.677 χ^2/NDF : 417511.0/24

Right Out: 17.269 $\pm$ 0.014 χ^2/NDF : 14491426.9/22

Left In: 4113.993 $\pm$ 0.703 χ^2/NDF : 349160.6/22

Left: 4093.835 $\pm$ 0.488 χ^2/NDF : 768256.5/47

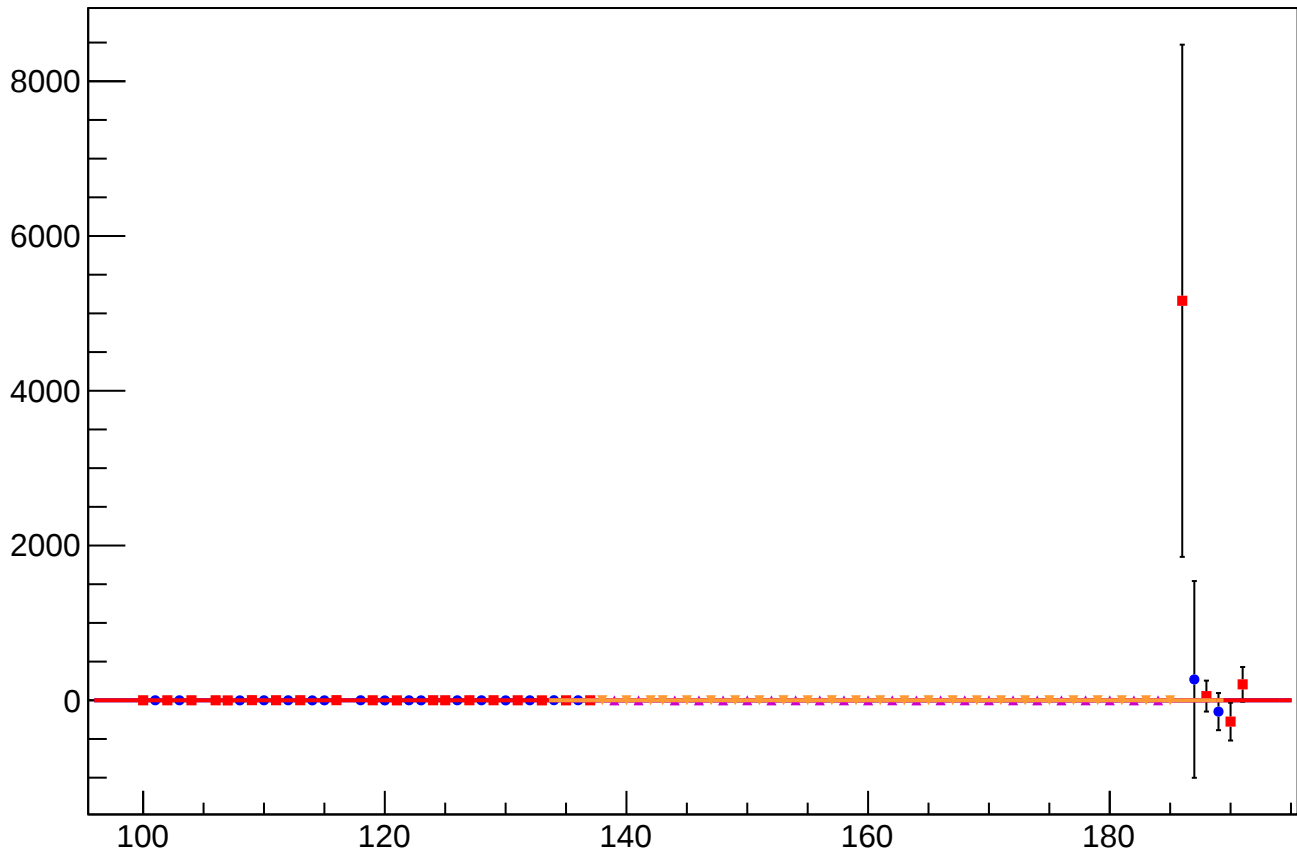
Right: 17.302 $\pm$ 0.010 χ^2/NDF : 26180708.3/41

In: 19.132 $\pm$ 0.015 χ^2/NDF : 45991798.0/41

Out: 19.000 $\pm$ 0.014 χ^2/NDF : 50844464.4/47

All: 19.063 $\pm$ 0.010 χ^2/NDF : 96836304.2/89

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 14.0/18

Left Out: 0.148 $\pm$ 0.076 χ^2 /NDF:17.3/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 22.8/22

Left In: -0.080 $\pm$ 0.079 χ^2 /NDF:34.6/22

Left: 0.038 $\pm$ 0.055 χ^2 /NDF: 56.3/47

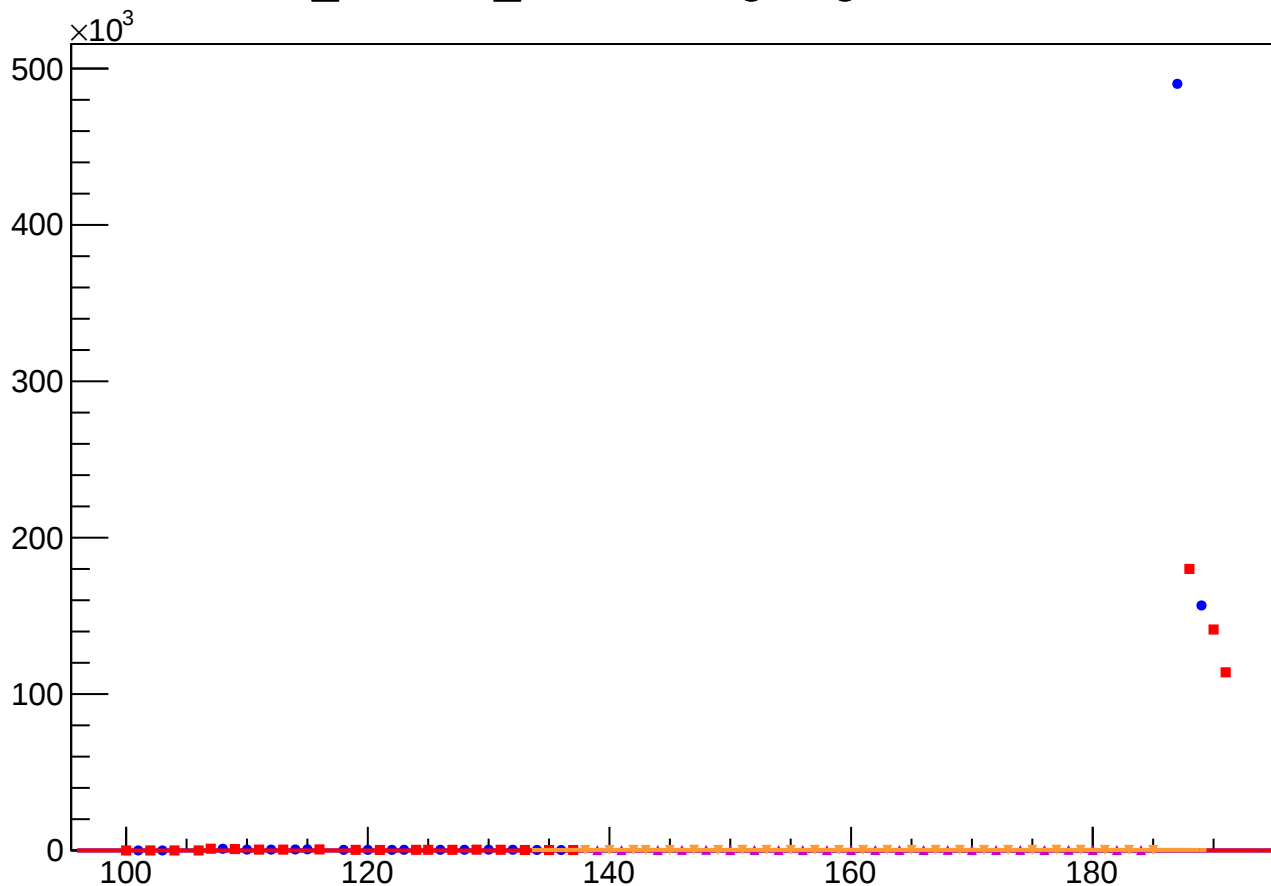
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 37.0/41

In: 0.000 $\pm$ 0.002 χ^2 /NDF:49.7/41

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:43.9/47

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 93.7/89

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 12157068.7/18

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

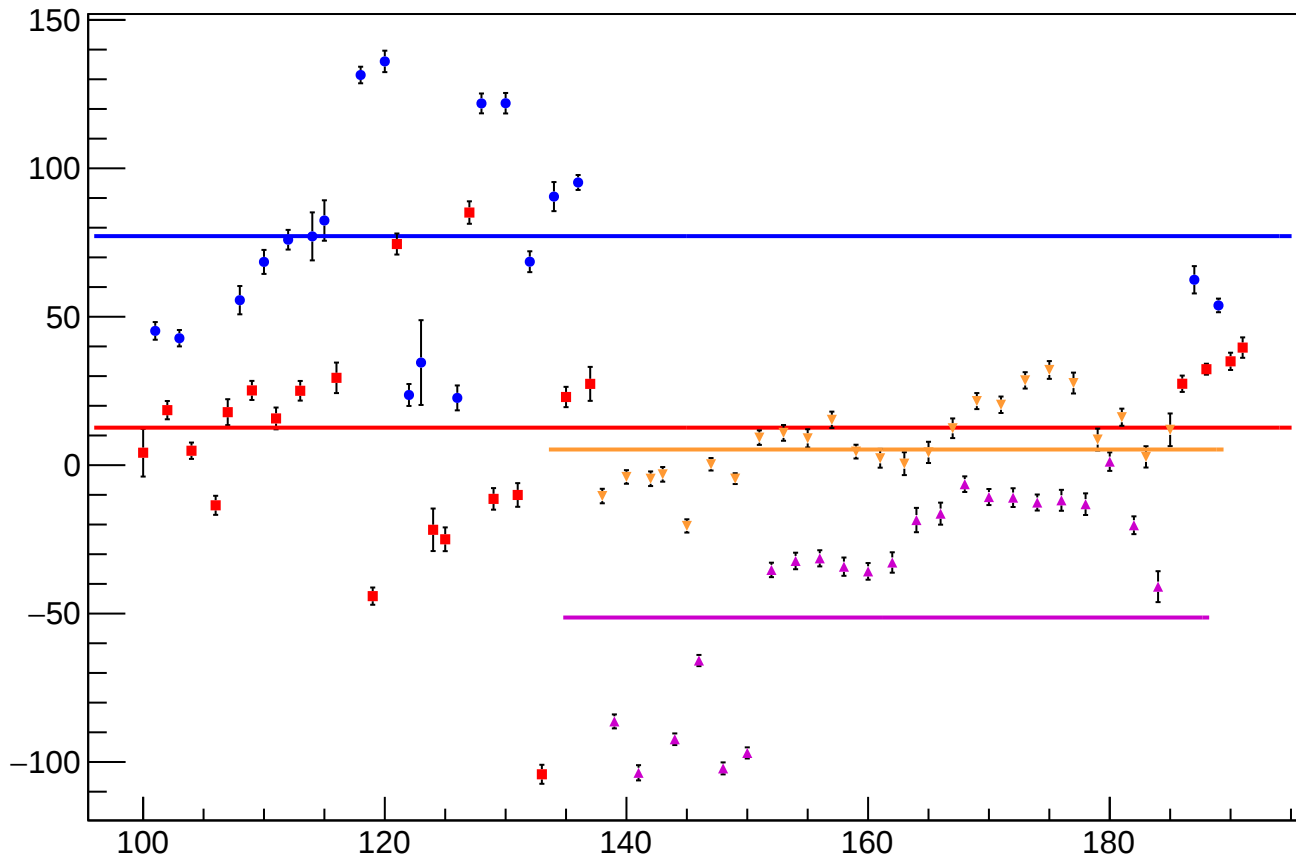
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 25663317.7/40

In: 1.912 $\pm$ 0.001 χ^2 /NDF: 46299226.0/41

Out: 1.936 $\pm$ 0.001 χ^2 /NDF: 49713560.3/46

All: 1.925 $\pm$ 0.001 χ^2 /NDF: 96012932.9/88

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 77.162 $\pm$ 0.815 χ^2 /NDF: 1852.3/18

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

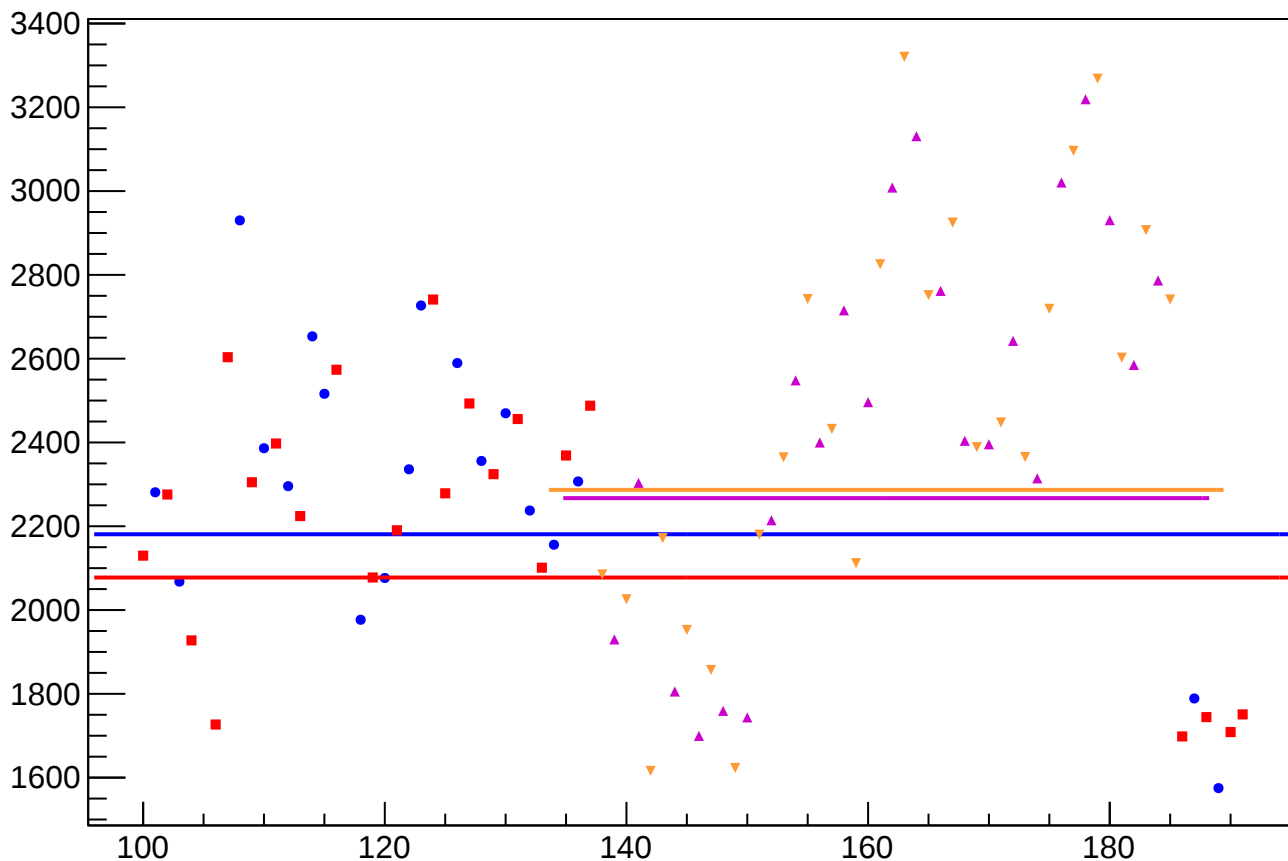
Right: 40.115 $\pm$ 0.532 χ^2 /NDF: 8424.5/41

In: -10.257 $\pm$ 0.461 χ^2 /NDF: 23037.3/41

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

All: -0.480 $\pm$ 0.314 χ^2 /NDF: 27475.6/89

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2180.897 ± 0.576 χ^2/NDF : 290623.5/18

Left Out: 2286.871 ± 0.385 χ^2/NDF : 1360490.8/24

Right Out: 2077.613 ± 0.496 χ^2/NDF : 368707.7/22

Left In: 2267.097 ± 0.395 χ^2/NDF : 1313364.4/22

Left: 2277.239 ± 0.276 χ^2/NDF : 2675141.7/47

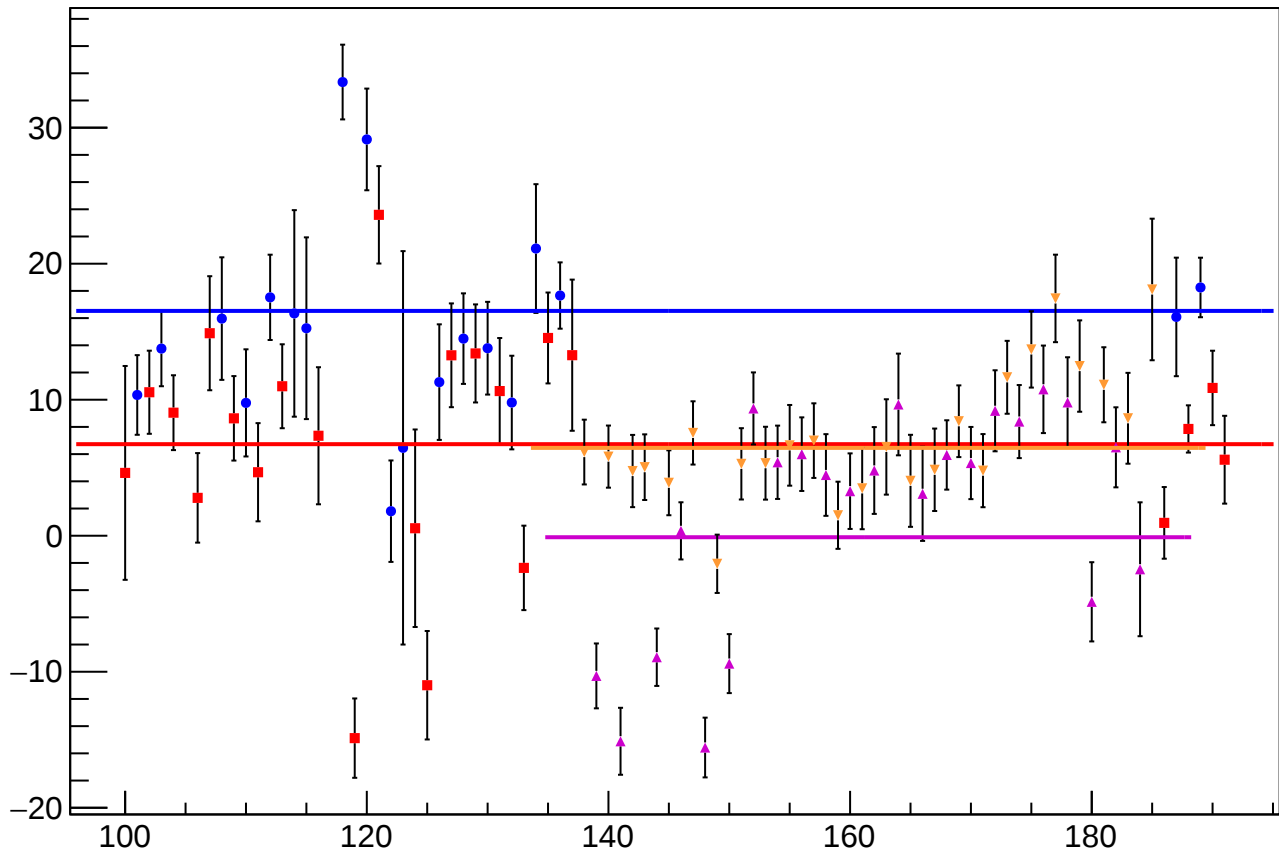
Right: 2121.595 ± 0.376 χ^2/NDF : 677792.0/41

In: 2239.544 ± 0.326 χ^2/NDF : 1619224.7/41

Out: 2208.259 ± 0.304 χ^2/NDF : 1840301.3/47

All: 2222.829 ± 0.222 χ^2/NDF : 3464456.9/89

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.529 ± 0.797 $\chi^2/\text{NDF}: 81.7/18$

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

Right Out: 6.732 ± 0.682 $\chi^2/\text{NDF}: 138.2/22$

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

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

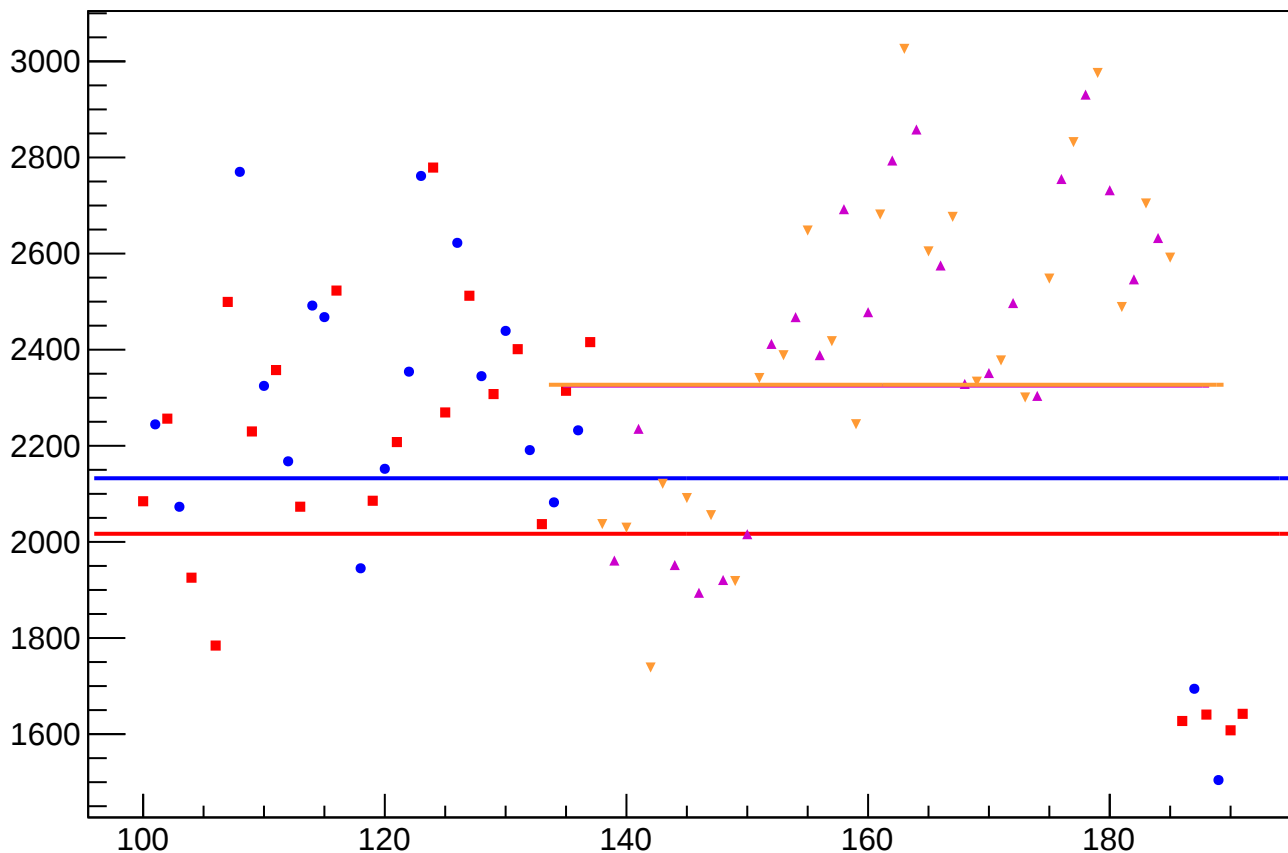
Right: 10.873 ± 0.518 $\chi^2/\text{NDF}: 307.1/41$

In: 5.456 ± 0.461 $\chi^2/\text{NDF}: 606.2/41$

Out: 6.565 ± 0.427 $\chi^2/\text{NDF}: 197.0/47$

All: 6.053 ± 0.313 $\chi^2/\text{NDF}: 806.4/89$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2132.471 $\pm$ 0.564 χ^2/NDF : 318704.7/18

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

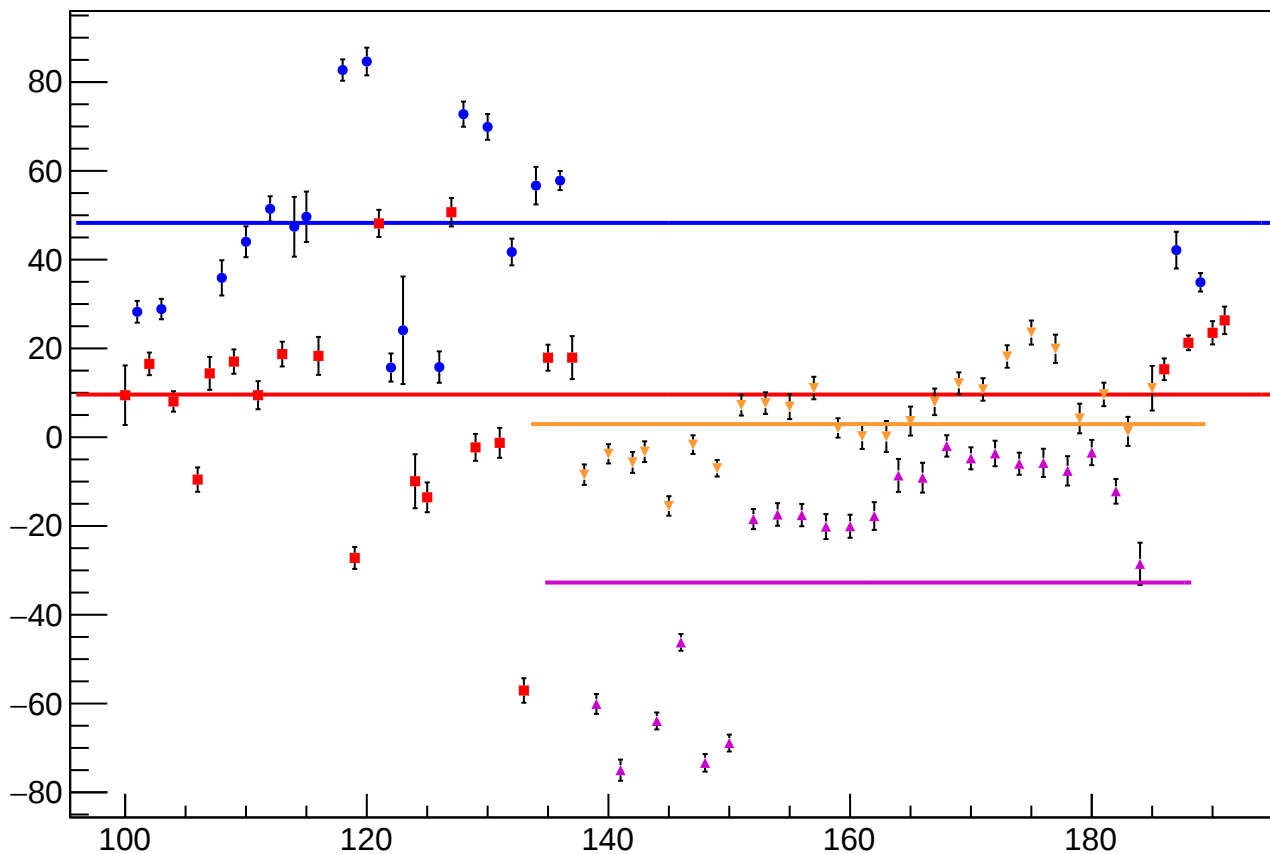
Right: 2065.757 $\pm$ 0.366 χ^2/NDF : 780625.0/41

In: 2260.714 $\pm$ 0.326 χ^2/NDF : 1007216.3/41

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

All: 2231.002 $\pm$ 0.222 χ^2/NDF : 2358434.2/89

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 48.283+/-0.697 χ^2/NDF : 887.7/18

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

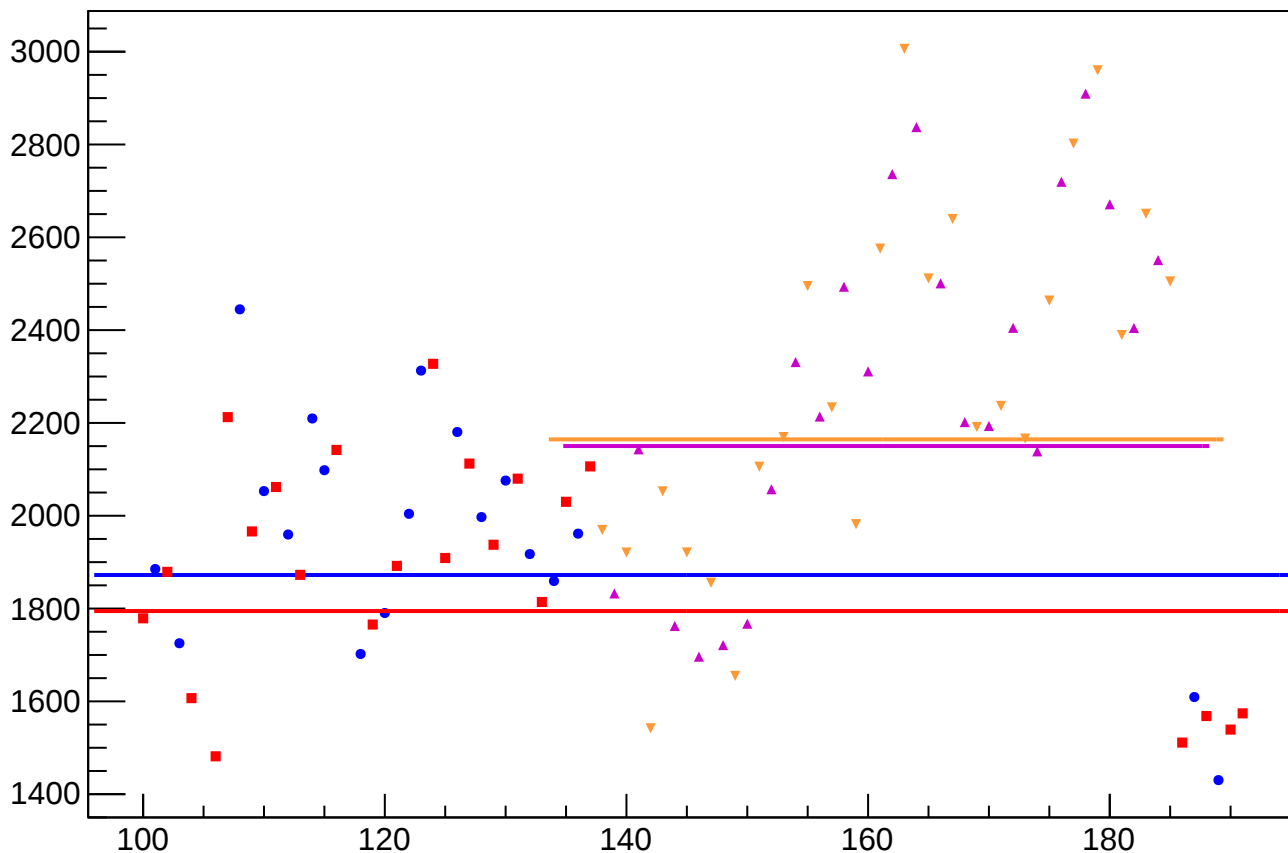
Right: 26.198+/-0.457 χ^2/NDF : 4057.0/41

In: -3.349+/-0.420 χ^2/NDF :12125.4/41

Out: 5.733+/-0.391 χ^2/NDF :1820.8/47

All: 1.520+/-0.286 χ^2/NDF : 14196.9/89

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1872.316 ± 0.493 χ^2/NDF : 213673.1/18

Left Out: 2164.573 ± 0.362 χ^2/NDF : 965603.5/24

Right Out: 1794.611 ± 0.427 χ^2/NDF : 276598.3/22

Left In: 2150.190 ± 0.372 χ^2/NDF : 911849.7/22

Left: 2157.578 ± 0.259 χ^2/NDF : 1878220.9/47

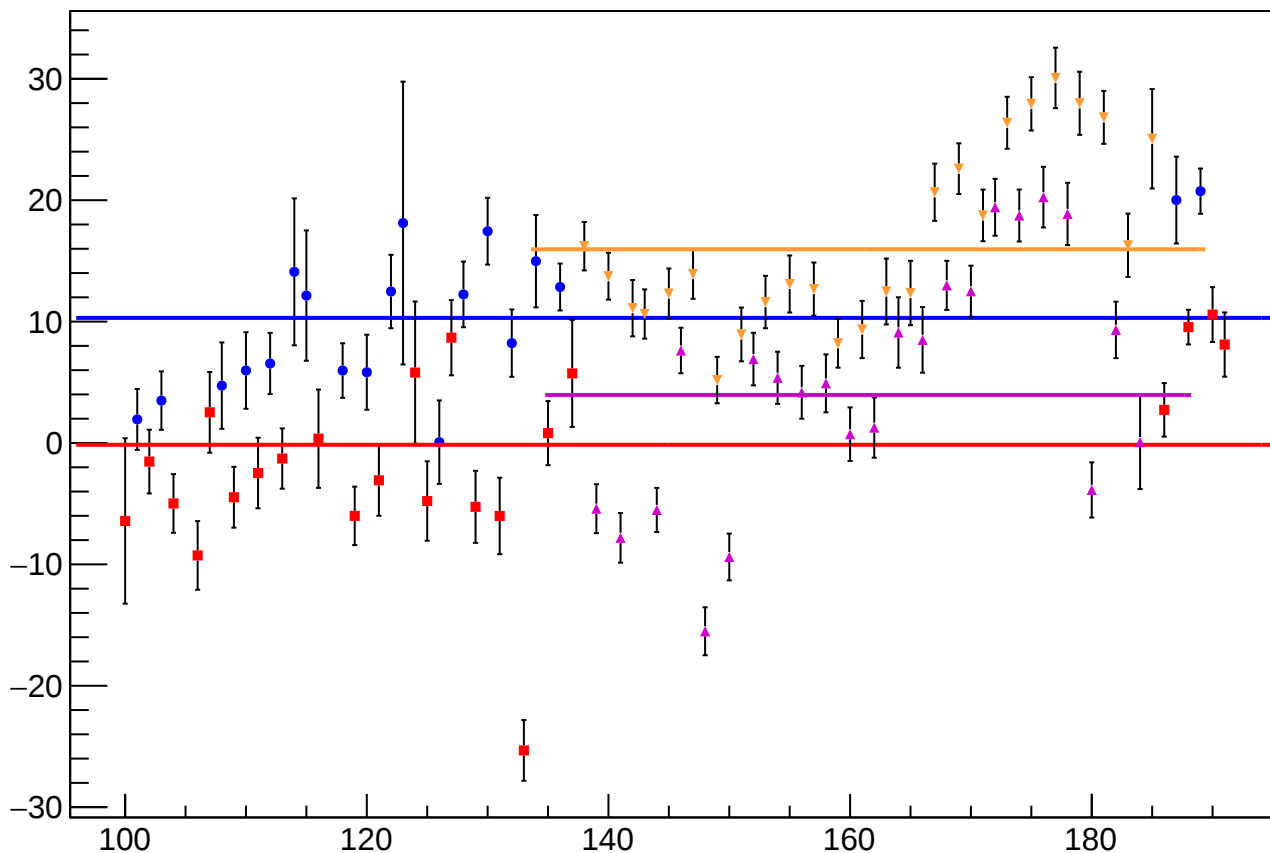
Right: 1827.943 ± 0.323 χ^2/NDF : 504455.4/41

In: 2049.379 ± 0.297 χ^2/NDF : 1327924.8/41

Out: 2010.007 ± 0.276 χ^2/NDF : 1678605.2/47

All: 2028.268 ± 0.202 χ^2/NDF : 3015954.5/89

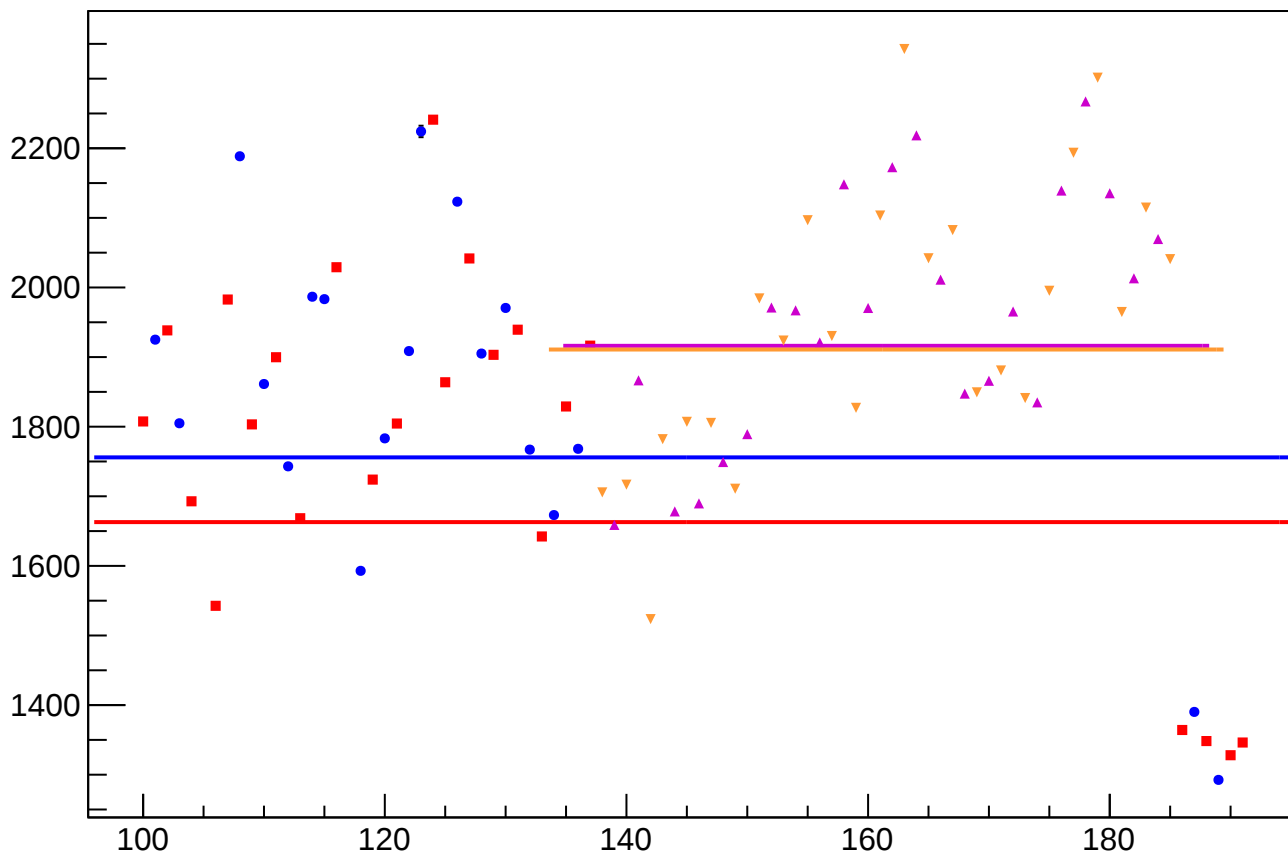
diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 10.306 ± 0.654 $\chi^2/\text{NDF}: 91.6/18$
 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: 4.283 ± 0.426 $\chi^2/\text{NDF}: 466.5/41$
 In: 6.077 ± 0.378 $\chi^2/\text{NDF}: 619.2/41$
 Out: 9.698 ± 0.350 $\chi^2/\text{NDF}: 976.4/47$
 All: 8.027 ± 0.257 $\chi^2/\text{NDF}: 1645.1/89$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1755.899 $\pm$ 0.463 χ^2/NDF : 253731.3/18

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

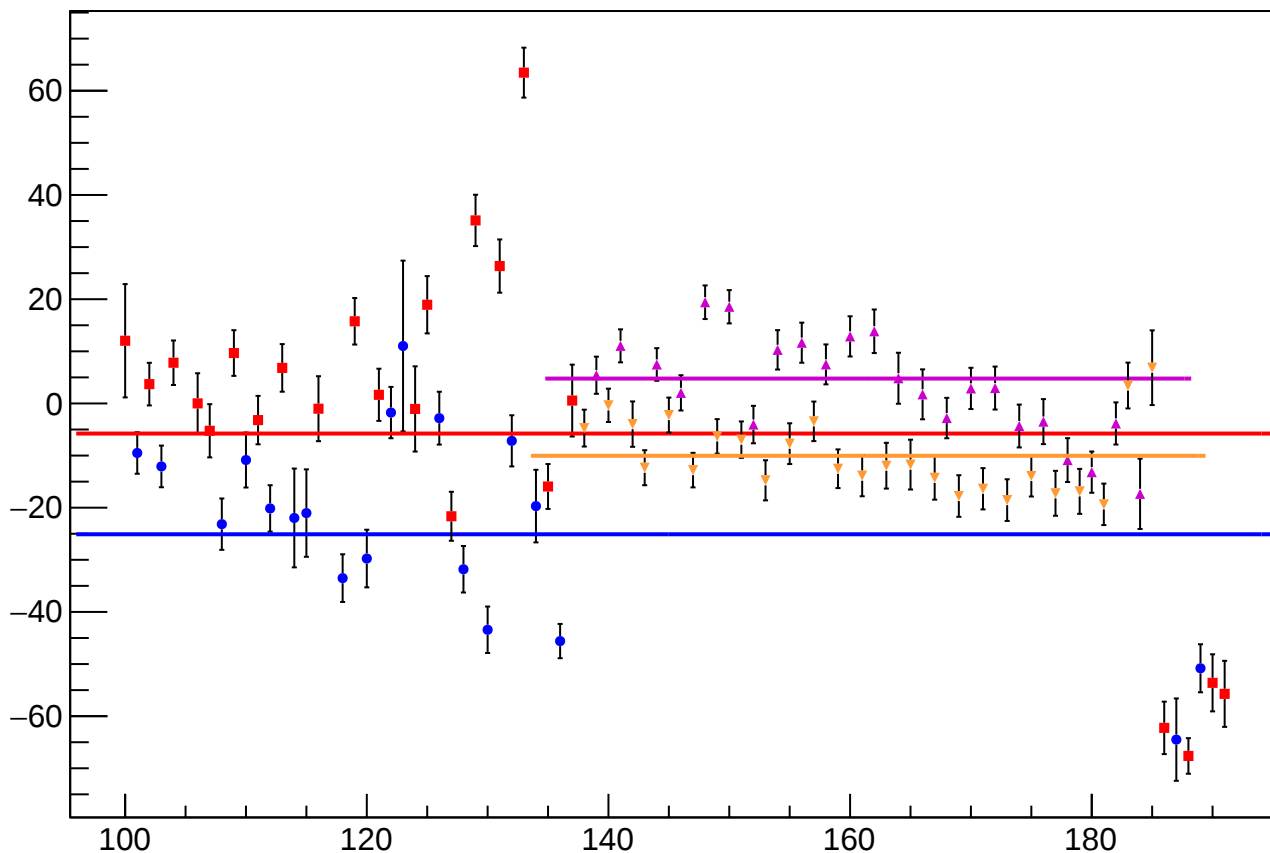
Right: 1702.320 $\pm$ 0.301 χ^2/NDF : 670835.2/41

In: 1862.712 $\pm$ 0.267 χ^2/NDF : 607989.1/41

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

All: 1836.755 $\pm$ 0.182 χ^2/NDF : 1587026.6/89

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -25.101±/1.146 χ^2/NDF : 213.7/18

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

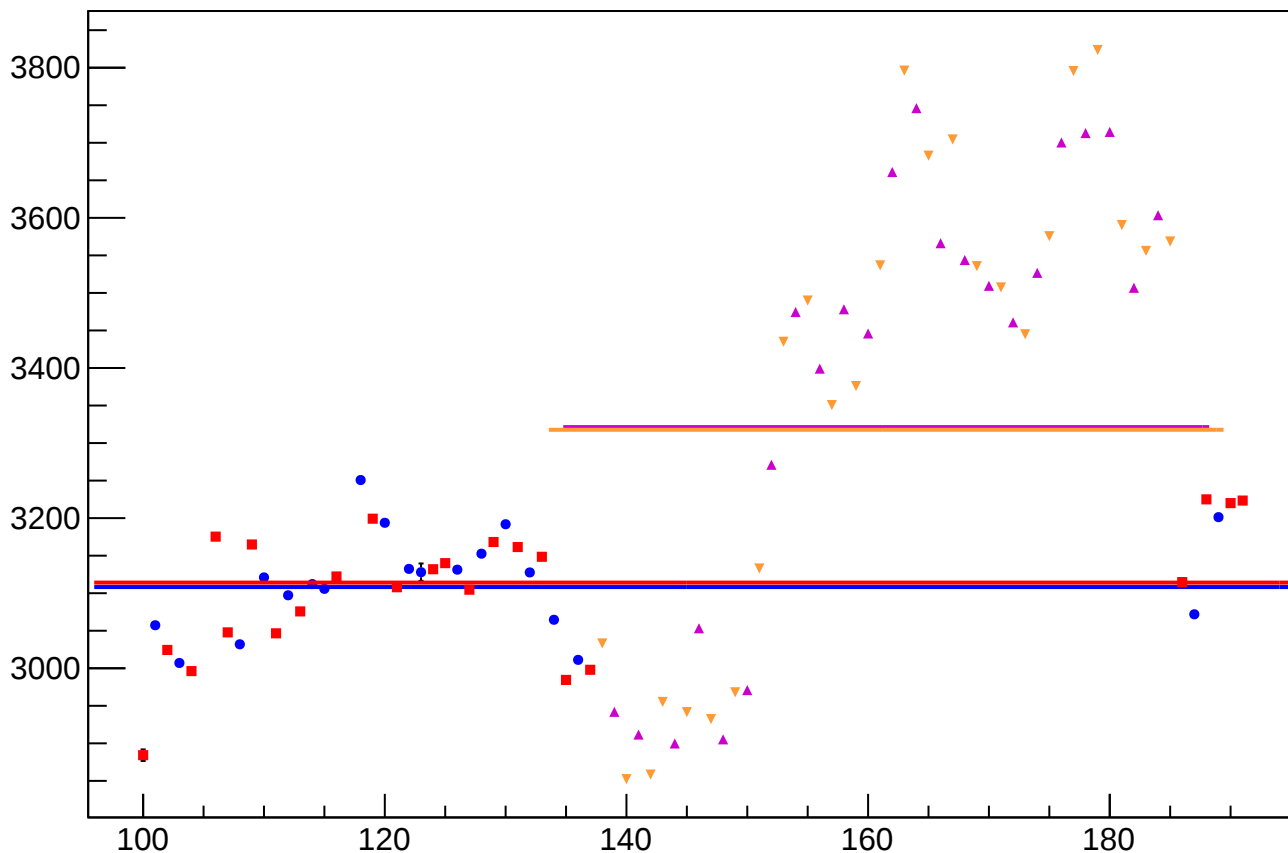
Right: -14.480±/0.769 χ^2/NDF : 1384.1/41

In: -5.021±/0.656 χ^2/NDF : 798.9/41

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

All: -6.860±/0.451 χ^2/NDF : 1905.9/89

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3108.192 $\pm$ 0.810 χ^2 /NDF: 8238.1/18

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

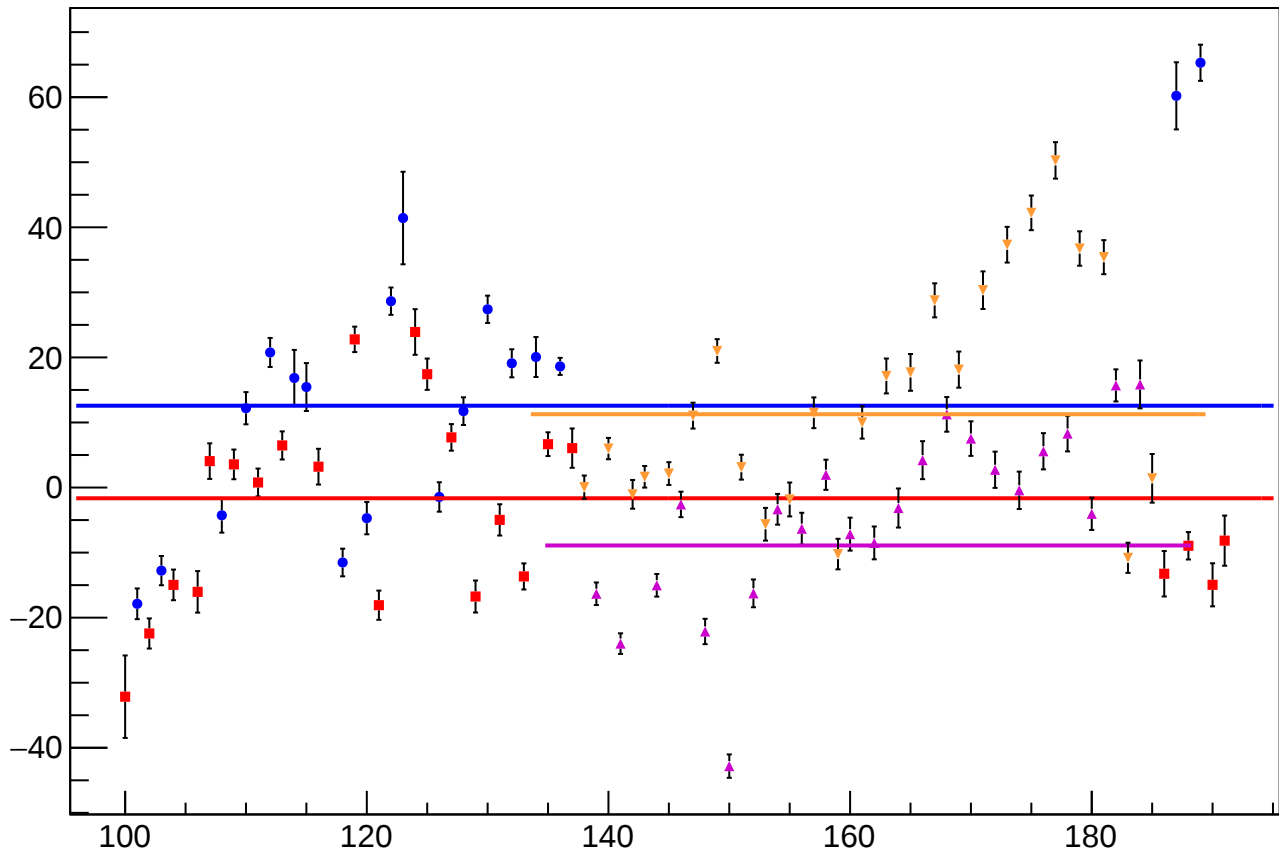
Right: 3111.463 $\pm$ 0.544 χ^2 /NDF: 20190.5/41

In: 3251.412 $\pm$ 0.464 χ^2 /NDF:339038.0/41

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

All: 3247.850 $\pm$ 0.319 χ^2 /NDF: 737289.8/89

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 12.577 ± 0.546 $\chi^2/\text{NDF}: 1169.6/18$

Left Out: 11.268 ± 0.454 $\chi^2/\text{NDF}: 1141.8/24$

Right Out: -1.651 ± 0.513 $\chi^2/\text{NDF}: 675.5/22$

Left In: -8.905 ± 0.478 $\chi^2/\text{NDF}: 936.3/22$

Left: 1.682 ± 0.329 $\chi^2/\text{NDF}: 3014.7/47$

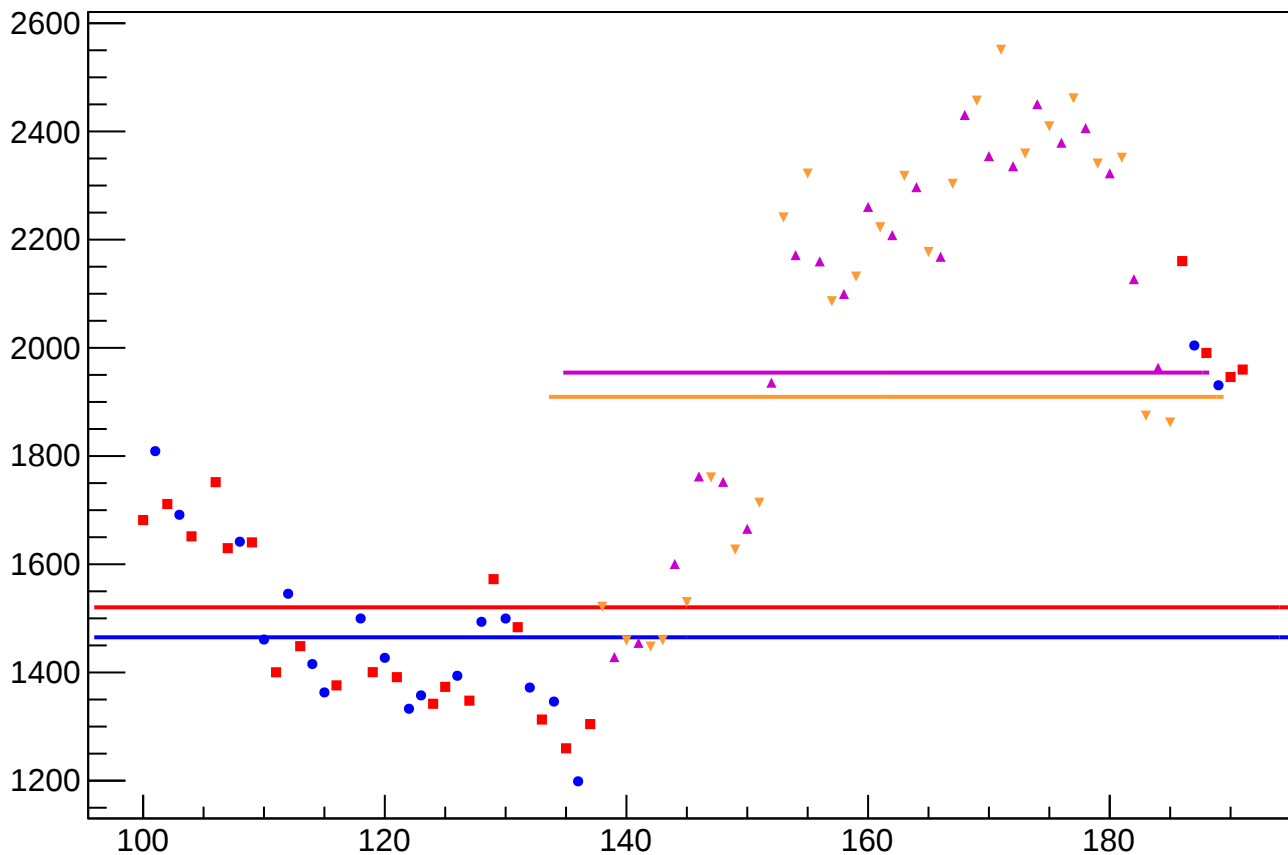
Right: 5.018 ± 0.374 $\chi^2/\text{NDF}: 2205.4/41$

In: 0.399 ± 0.360 $\chi^2/\text{NDF}: 2982.4/41$

Out: 5.590 ± 0.340 $\chi^2/\text{NDF}: 2172.5/47$

All: 3.138 ± 0.247 $\chi^2/\text{NDF}: 5264.9/89$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1465.023 $\pm$ 0.386 χ^2/NDF : 254926.7/18

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

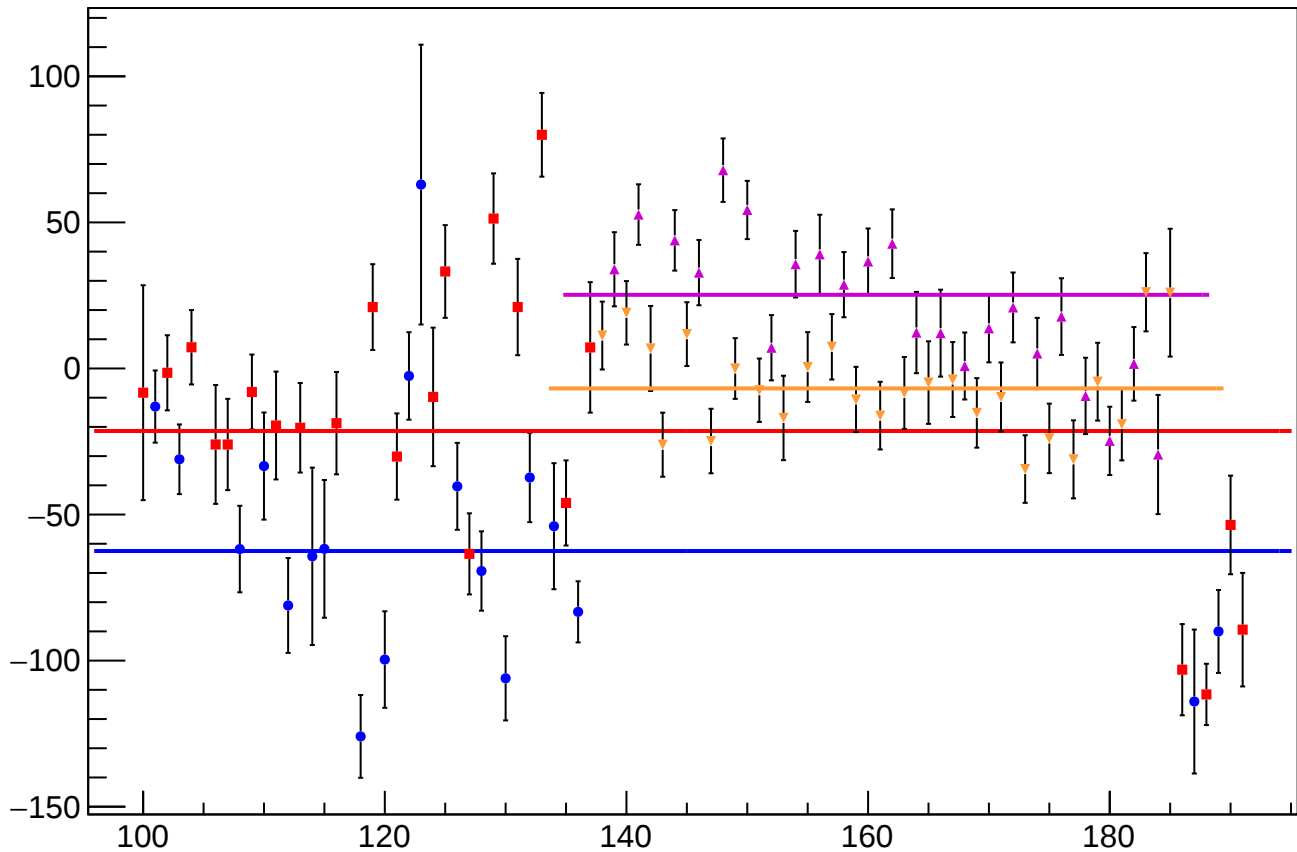
Right: 1494.475 $\pm$ 0.264 χ^2/NDF : 660755.8/41

In: 1742.350 $\pm$ 0.254 χ^2/NDF :2208924.9/41

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

All: 1740.296 $\pm$ 0.175 χ^2/NDF : 4646478.6/89

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -62.487 ± 3.574 χ^2/NDF : 101.4/18

Left Out: -6.825 ± 2.423 χ^2/NDF : 42.3/24

Right Out: -21.401 ± 3.245 χ^2/NDF : 239.3/22

Left In: 25.215 ± 2.487 χ^2/NDF : 89.3/22

Left: 8.777 ± 1.735 χ^2/NDF : 216.8/47

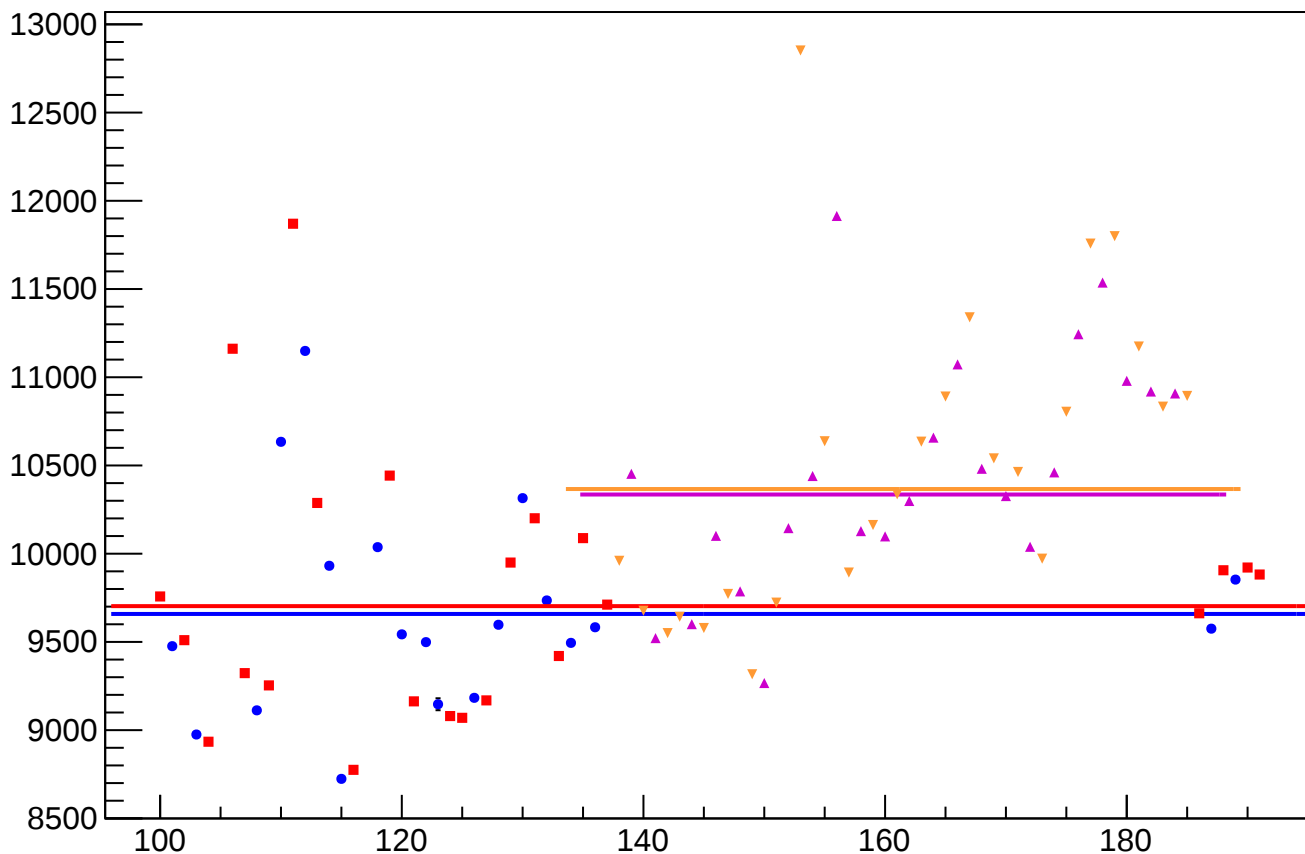
Right: -39.964 ± 2.402 χ^2/NDF : 413.1/41

In: -3.389 ± 2.041 χ^2/NDF : 596.4/41

Out: -12.041 ± 1.941 χ^2/NDF : 294.5/47

All: -7.932 ± 1.407 χ^2/NDF : 900.3/89

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9658.508 ± 2.527 $\chi^2/\text{NDF}: 44416.2/18$

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 $\chi^2/\text{NDF}: 338736.7/47$

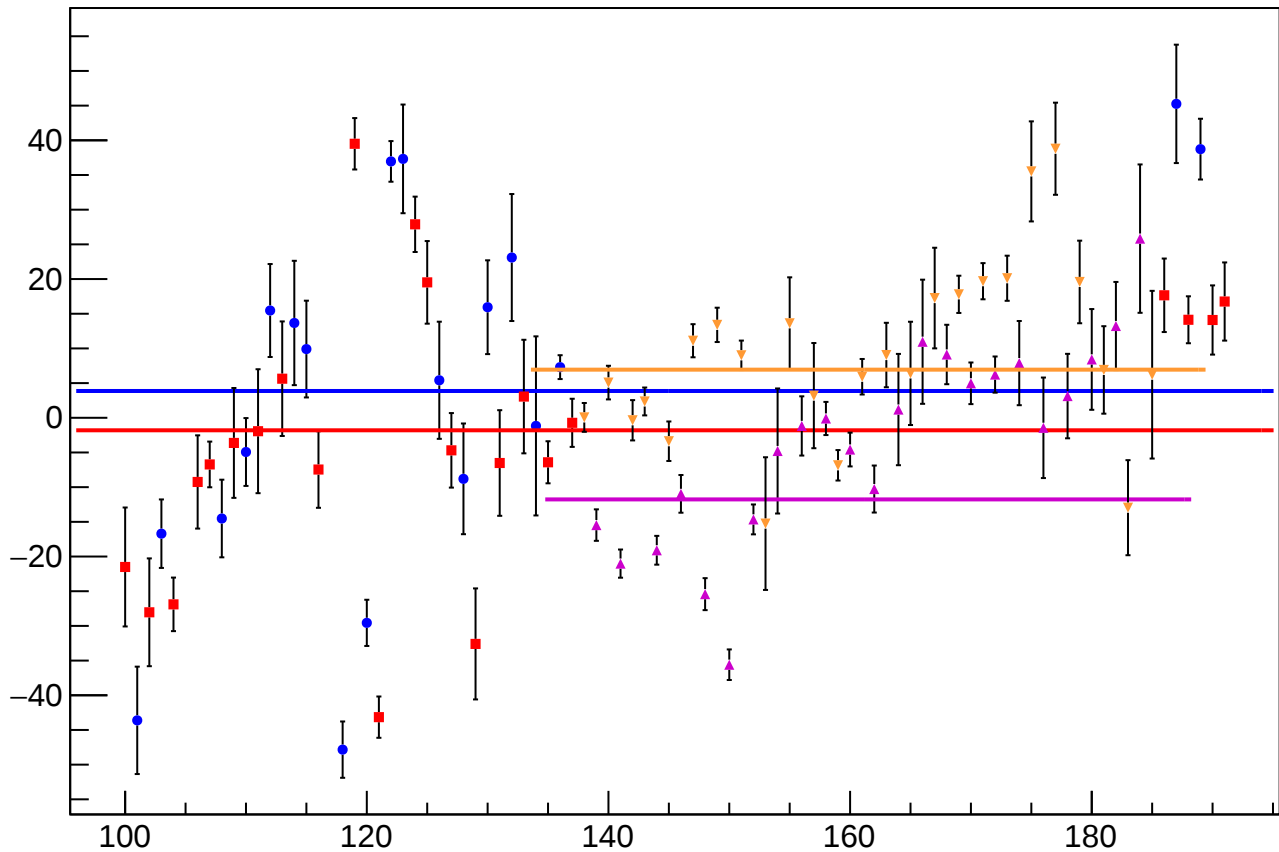
Right: 9682.822 ± 1.699 $\chi^2/\text{NDF}: 123408.6/41$

In: 10114.628 ± 1.443 $\chi^2/\text{NDF}: 219926.1/41$

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

All: 10122.177 ± 0.995 $\chi^2/\text{NDF}: 563928.0/89$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 3.864 ± 1.029 $\chi^2/\text{NDF}: 584.0/18$

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 $\chi^2/\text{NDF}: 1021.3/47$

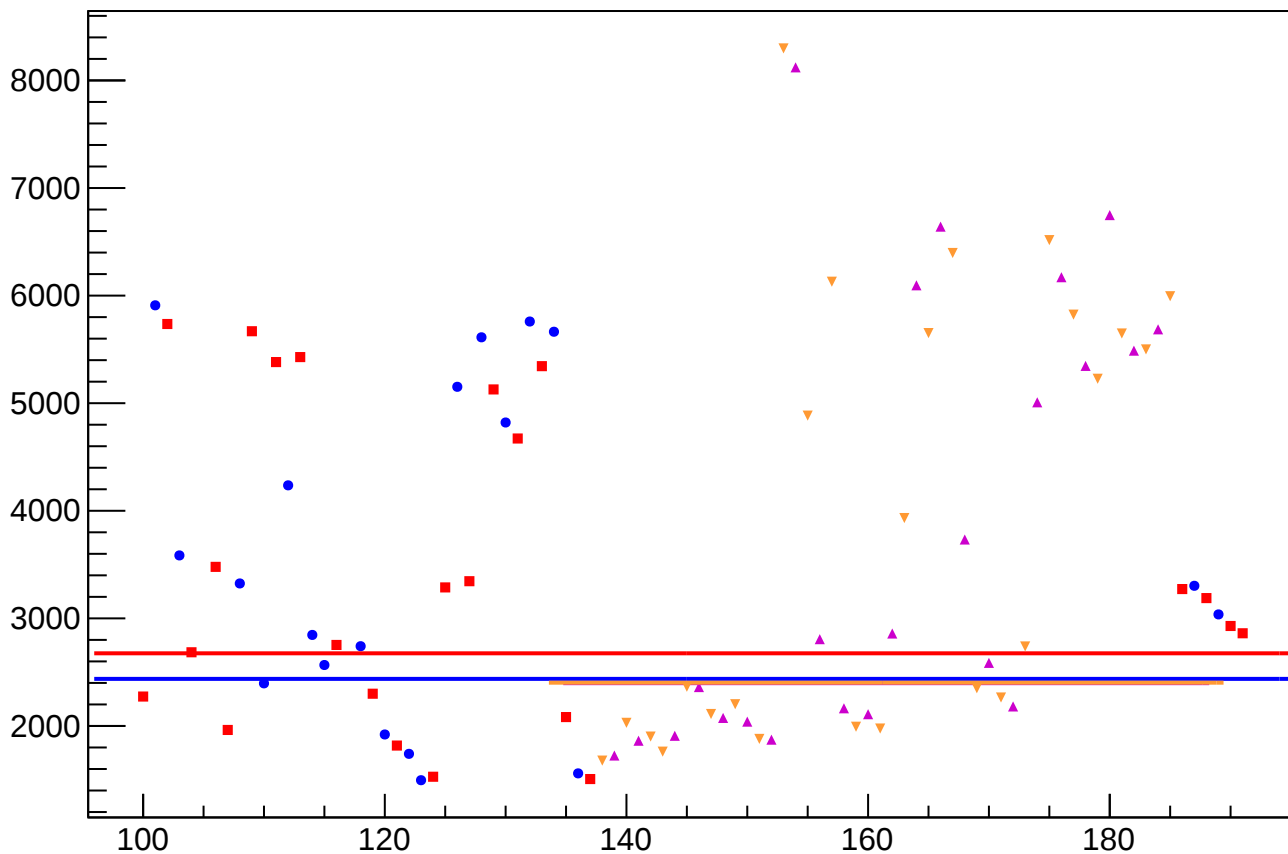
Right: 0.902 ± 0.711 $\chi^2/\text{NDF}: 1124.6/41$

In: -7.326 ± 0.549 $\chi^2/\text{NDF}: 1144.2/41$

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

All: -1.351 ± 0.383 $\chi^2/\text{NDF}: 2160.0/89$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2437.634+/-0.728 χ^2/NDF : 2650912.7/18

Left Out: 2402.359+/-0.452 χ^2/NDF : 6345982.8/24

Right Out: 2675.309+/-0.696 χ^2/NDF : 2453657.4/22

Left In: 2397.701+/-0.458 χ^2/NDF : 5398920.1/22

Left: 2400.065+/-0.322 χ^2/NDF : 11744955.3/47

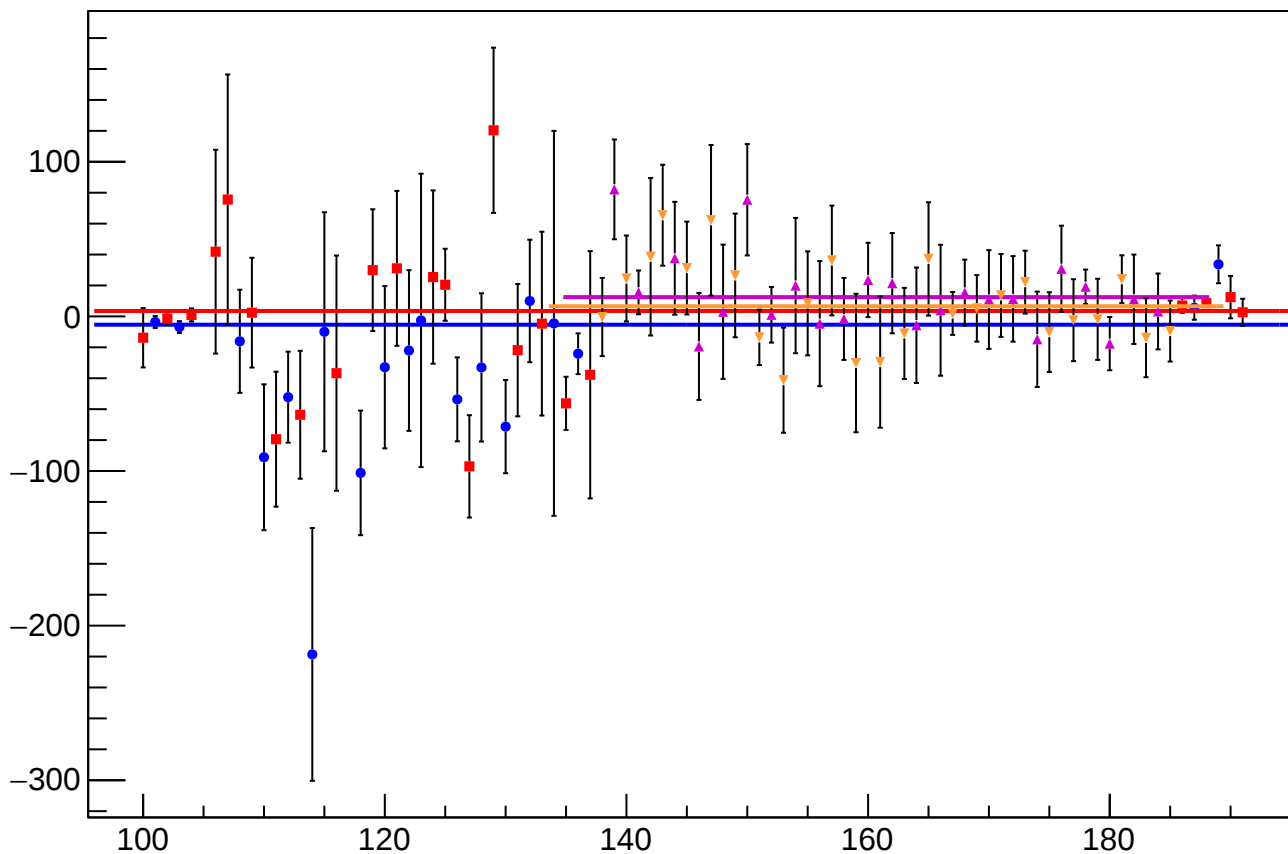
Right: 2561.845+/-0.503 χ^2/NDF : 5160302.6/41

In: 2409.045+/-0.388 χ^2/NDF : 8051988.0/41

Out: 2483.307+/-0.379 χ^2/NDF : 8907947.2/47

All: 2447.057+/-0.271 χ^2/NDF : 16978694.9/8

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.381 ± 2.408 $\chi^2/\text{NDF}: 41.8/18$

Left Out: 6.560 ± 5.077 $\chi^2/\text{NDF}: 16.8/24$

Right Out: 3.502 ± 1.816 $\chi^2/\text{NDF}: 42.3/22$

Left In: 12.469 ± 5.025 $\chi^2/\text{NDF}: 15.4/22$

Left: 9.545 ± 3.572 $\chi^2/\text{NDF}: 32.8/47$

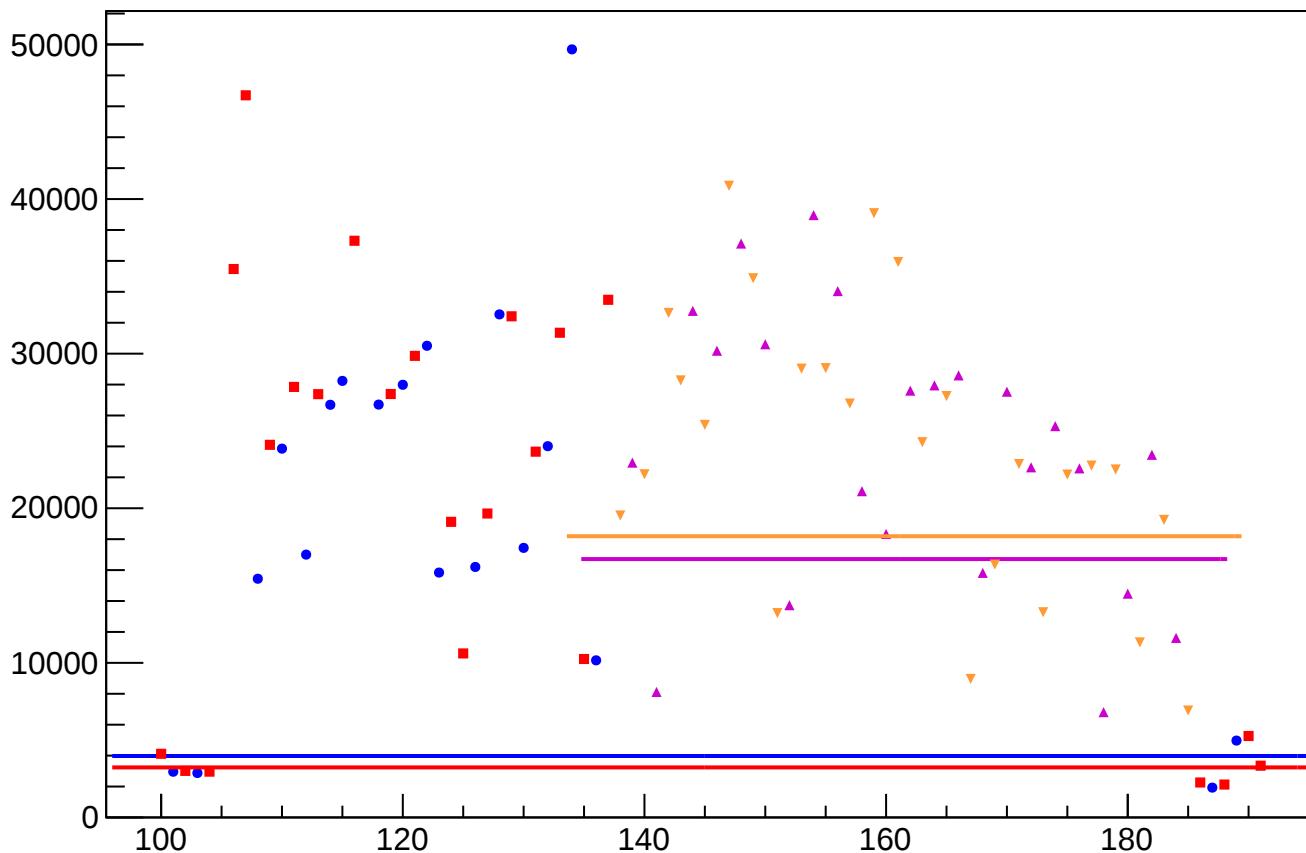
Right: 0.282 ± 1.450 $\chi^2/\text{NDF}: 92.8/41$

In: -2.047 ± 2.172 $\chi^2/\text{NDF}: 67.4/41$

Out: 3.848 ± 1.710 $\chi^2/\text{NDF}: 59.4/47$

All: 1.593 ± 1.343 $\chi^2/\text{NDF}: 131.4/89$

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 3974.971 ± 1.703 $\chi^2/\text{NDF}: 6135327.5/18$

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 $\chi^2/\text{NDF}: 11540970.2/47$

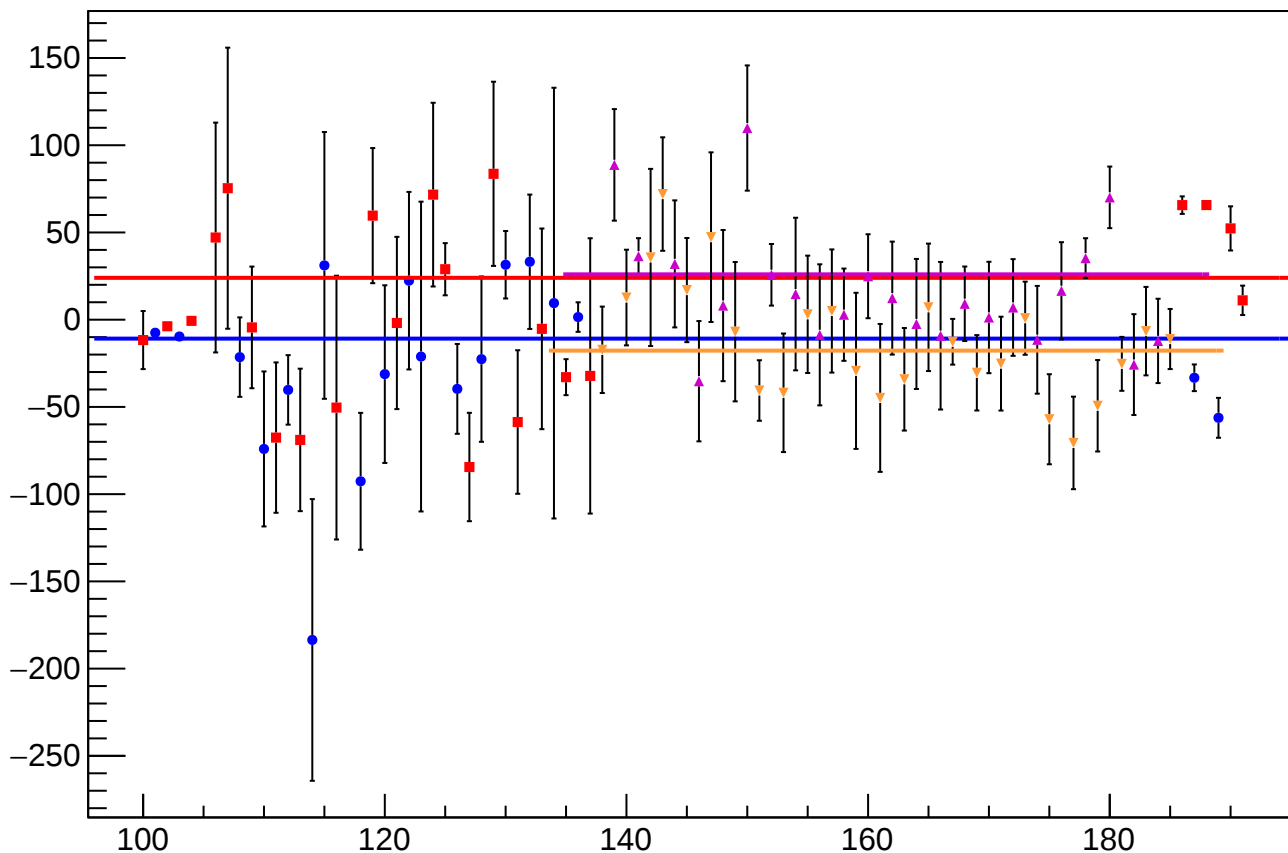
Right: 3504.544 ± 1.025 $\chi^2/\text{NDF}: 14432194.0/41$

In: 6354.249 ± 1.536 $\chi^2/\text{NDF}: 22780776.6/41$

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

All: 5476.482 ± 0.950 $\chi^2/\text{NDF}: 52128230.2/86$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -10.845 ± 1.712 $\chi^2/\text{NDF}: 50.0/18$

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

Right Out: 23.998 ± 1.462 $\chi^2/\text{NDF}: 552.8/22$

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

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

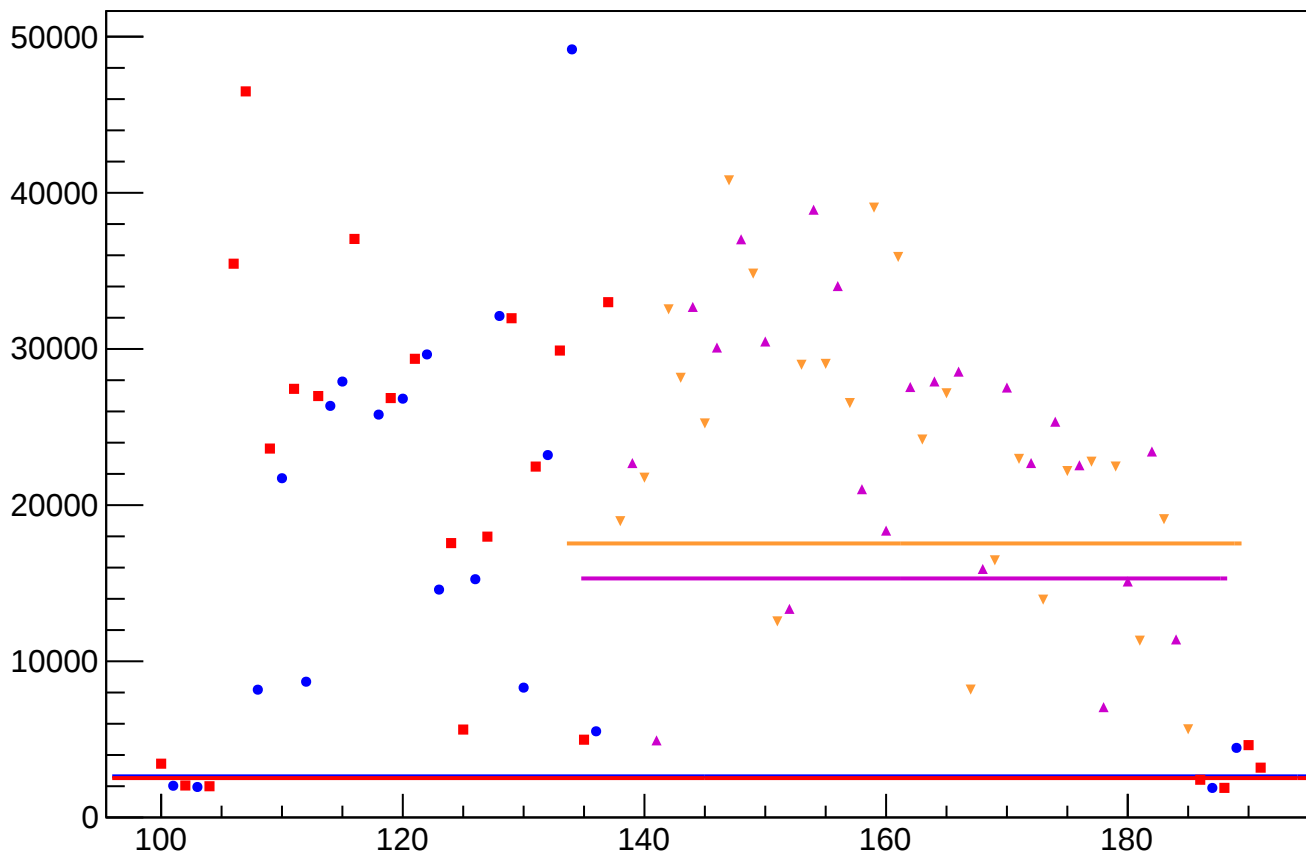
Right: 9.308 ± 1.112 $\chi^2/\text{NDF}: 842.3/41$

In: -6.669 ± 1.612 $\chi^2/\text{NDF}: 135.1/41$

Out: 20.681 ± 1.403 $\chi^2/\text{NDF}: 644.7/47$

All: 8.900 ± 1.058 $\chi^2/\text{NDF}: 943.6/89$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2631.158 ± 1.211 $\chi^2/\text{NDF}: 5639498.5/18$

Left Out: 17546.173 ± 3.517 $\chi^2/\text{NDF}: 5902620.4/24$

Right Out: 2520.608 ± 1.034 $\chi^2/\text{NDF}: 8023608.0/22$

Left In: 15305.311 ± 3.386 $\chi^2/\text{NDF}: 7721177.0/22$

Left: 16383.216 ± 2.439 $\chi^2/\text{NDF}: 13834445.4/47$

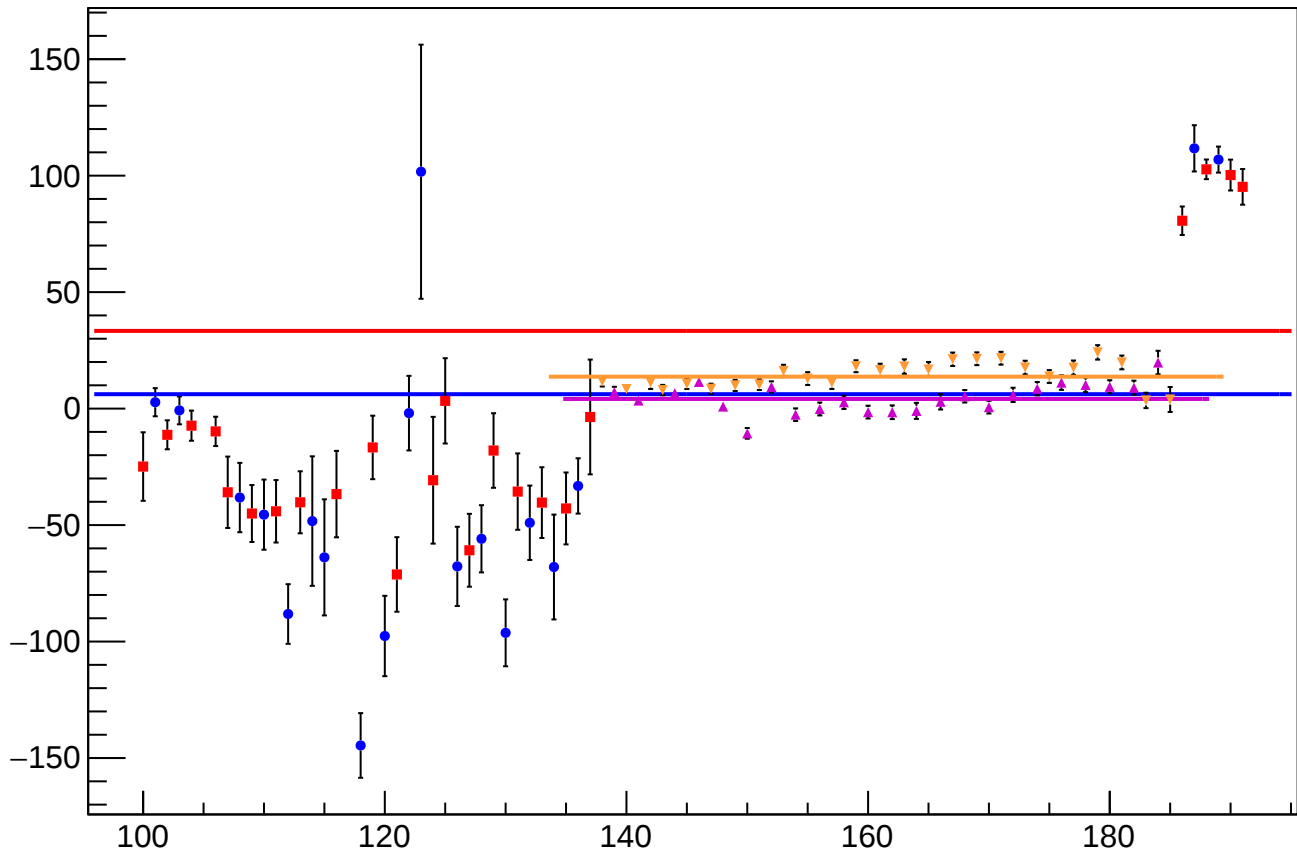
Right: 2567.216 ± 0.786 $\chi^2/\text{NDF}: 13667928.1/41$

In: 4067.915 ± 1.140 $\chi^2/\text{NDF}: 25781388.9/41$

Out: 3715.324 ± 0.992 $\chi^2/\text{NDF}: 30724254.7/47$

All: 3867.209 ± 0.748 $\chi^2/\text{NDF}: 56560085.0/8$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 6.185 ± 2.544 $\chi^2/\text{NDF}: 806.4/18$

Left Out: 13.710 ± 0.535 $\chi^2/\text{NDF}: 89.9/24$

Right Out: 33.350 ± 1.950 $\chi^2/\text{NDF}: 969.5/22$

Left In: 4.141 ± 0.555 $\chi^2/\text{NDF}: 111.7/22$

Left: 9.097 ± 0.385 $\chi^2/\text{NDF}: 355.6/47$

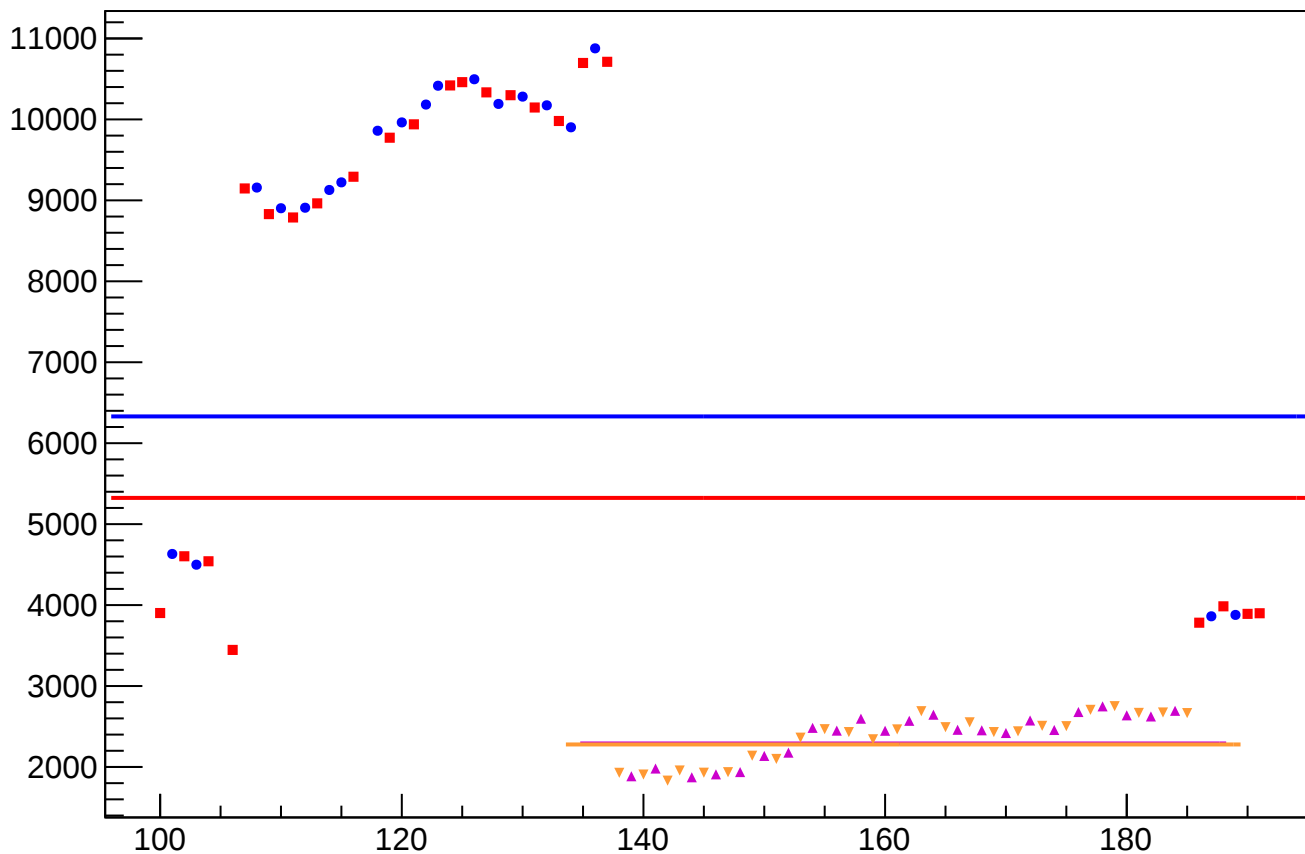
Right: 23.297 ± 1.548 $\chi^2/\text{NDF}: 1847.6/41$

In: 4.233 ± 0.542 $\chi^2/\text{NDF}: 918.7/41$

Out: 15.086 ± 0.516 $\chi^2/\text{NDF}: 1153.7/47$

All: 9.925 ± 0.374 $\chi^2/\text{NDF}: 2282.5/89$

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 6330.761 $\pm$ 1.799 χ^2/NDF : 2334082.2/18

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

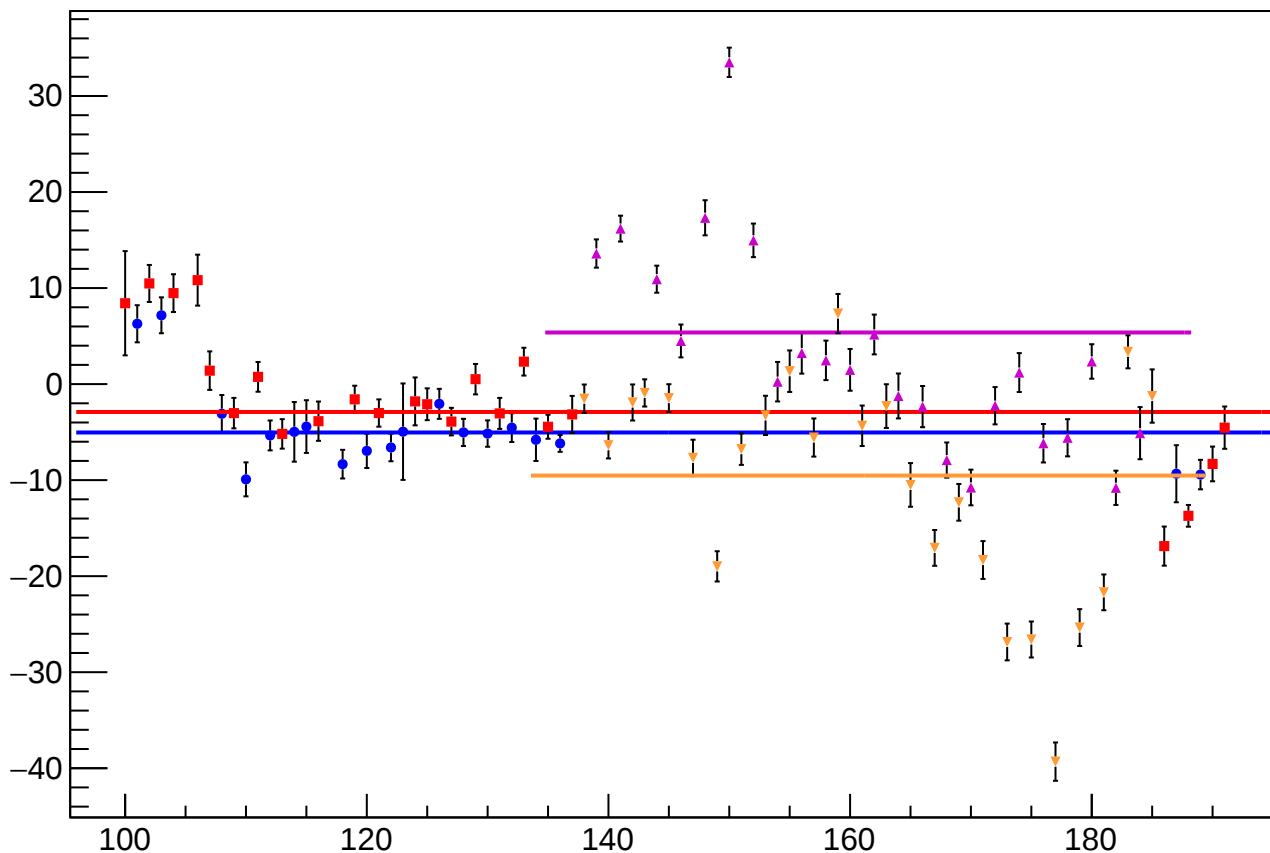
Right: 5696.627 $\pm$ 1.094 χ^2/NDF : 5643735.8/41

In: 2473.851 $\pm$ 0.383 χ^2/NDF :7738778.3/41

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

All: 2483.102 $\pm$ 0.264 χ^2/NDF : 15996579.7/8

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -5.039 ± 0.378 χ^2/NDF : 108.7/18

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

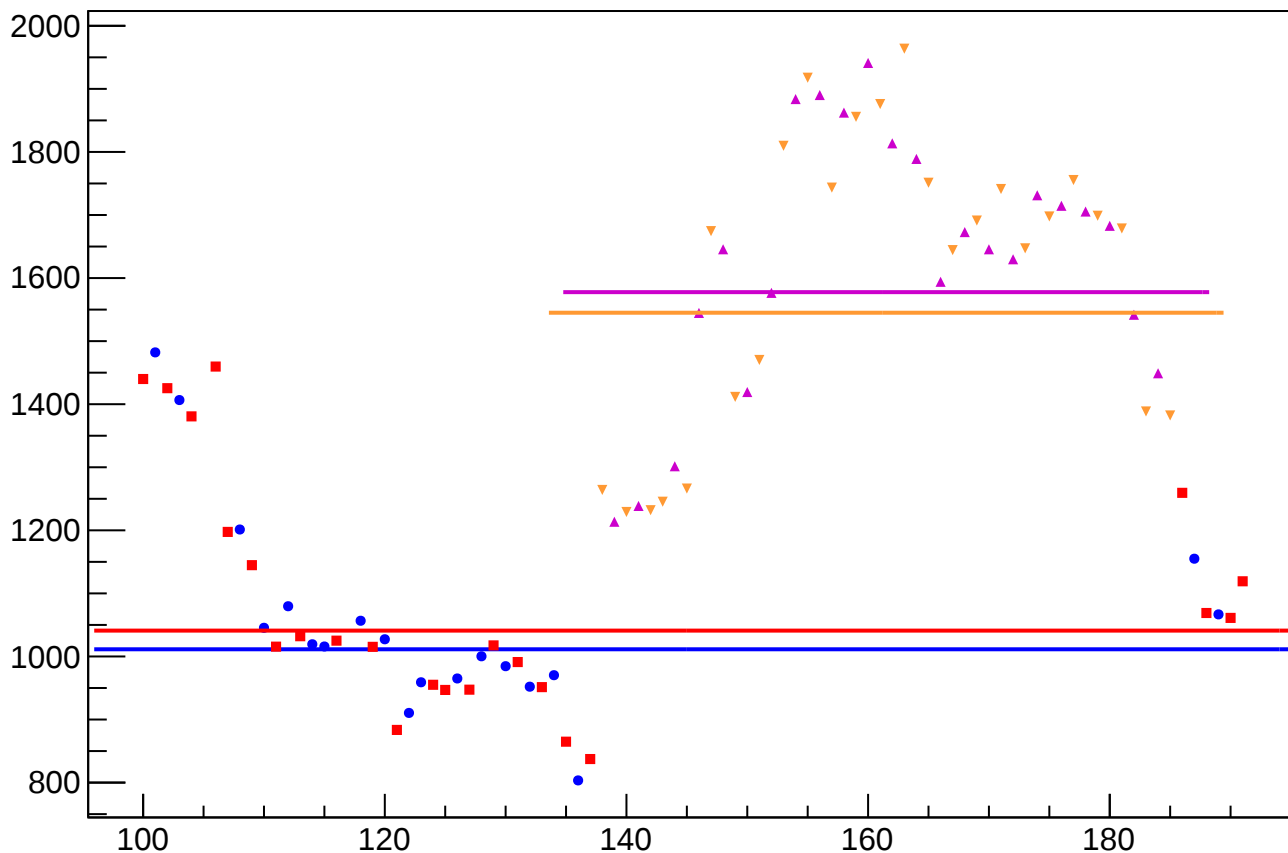
Right: -3.890 ± 0.257 χ^2/NDF : 426.3/41

In: 0.099 ± 0.269 χ^2/NDF : 1353.0/41

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

All: -3.183 ± 0.184 χ^2/NDF : 2989.2/89

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1011.381 $\pm$ 0.267 χ^2 /NDF: 369690.6/18

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

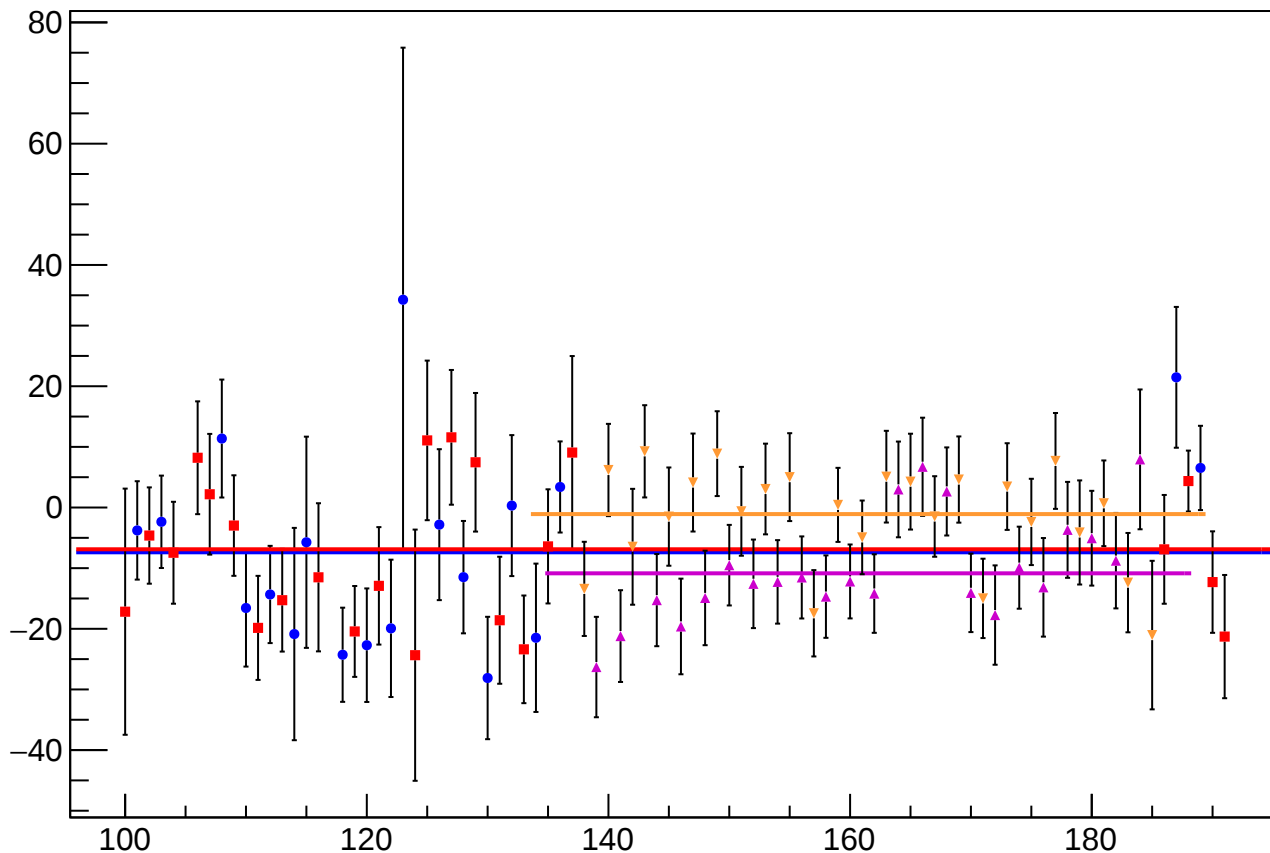
Right: 1027.301 $\pm$ 0.182 χ^2 /NDF: 739097.8/41

In: 1290.842 $\pm$ 0.190 χ^2 /NDF: 3210990.2/41

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

All: 1286.700 $\pm$ 0.130 χ^2 /NDF: 6402467.8/89

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -7.384 ± 2.236 χ^2/NDF : 34.8/18

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

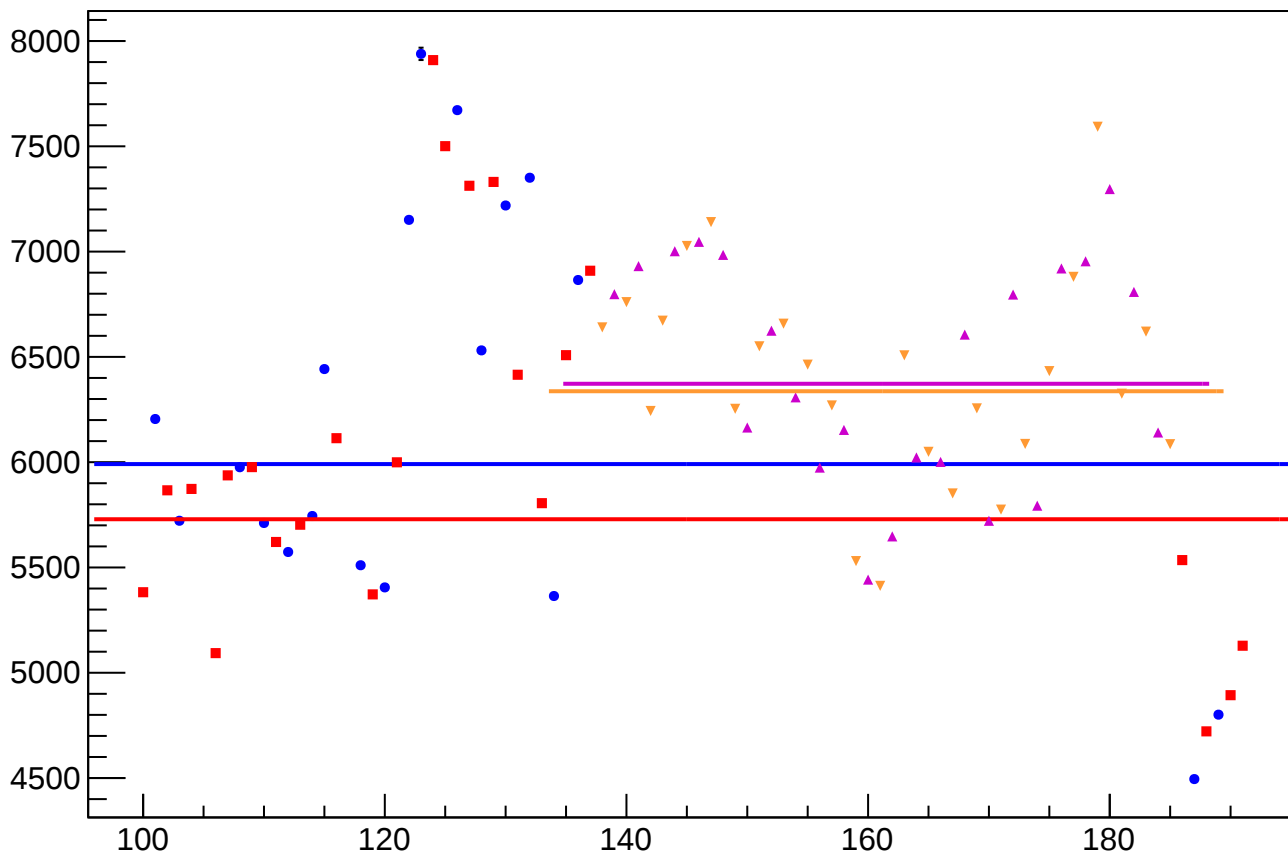
Right: -7.099 ± 1.461 χ^2/NDF : 66.0/41

In: -9.734 ± 1.269 χ^2/NDF : 60.8/41

Out: -3.244 ± 1.178 χ^2/NDF : 64.3/47

All: -6.248 ± 0.863 χ^2/NDF : 139.2/89

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5990.955 ± 1.581 χ^2/NDF : 278024.9/18

Left Out: 6336.876 ± 1.052 χ^2/NDF : 222912.5/24

Right Out: 5729.032 ± 1.365 χ^2/NDF : 302276.7/22

Left In: 6372.349 ± 1.090 χ^2/NDF : 247257.0/22

Left: 6353.974 ± 0.757 χ^2/NDF : 470718.0/47

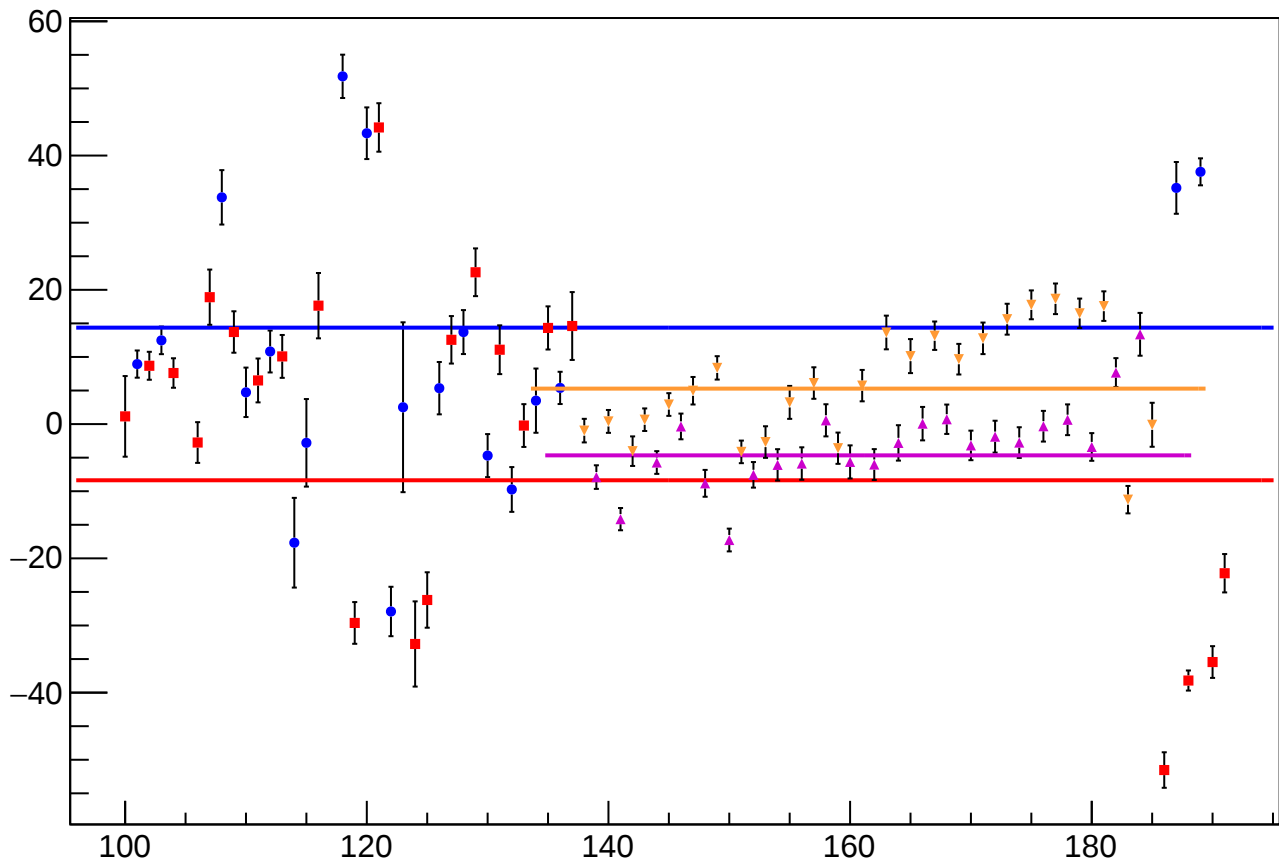
Right: 5840.913 ± 1.033 χ^2/NDF : 596025.5/41

In: 6249.448 ± 0.897 χ^2/NDF : 564727.2/41

Out: 6110.520 ± 0.833 χ^2/NDF : 649612.9/47

All: 6174.824 ± 0.611 χ^2/NDF : 1227212.6/89

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 14.367 ± 0.728 $\chi^2/\text{NDF}: 667.5/18$

Left Out: 5.284 ± 0.421 $\chi^2/\text{NDF}: 366.1/24$

Right Out: -8.369 ± 0.621 $\chi^2/\text{NDF}: 1630.4/22$

Left In: -4.657 ± 0.443 $\chi^2/\text{NDF}: 196.5/22$

Left: 0.574 ± 0.305 $\chi^2/\text{NDF}: 827.2/47$

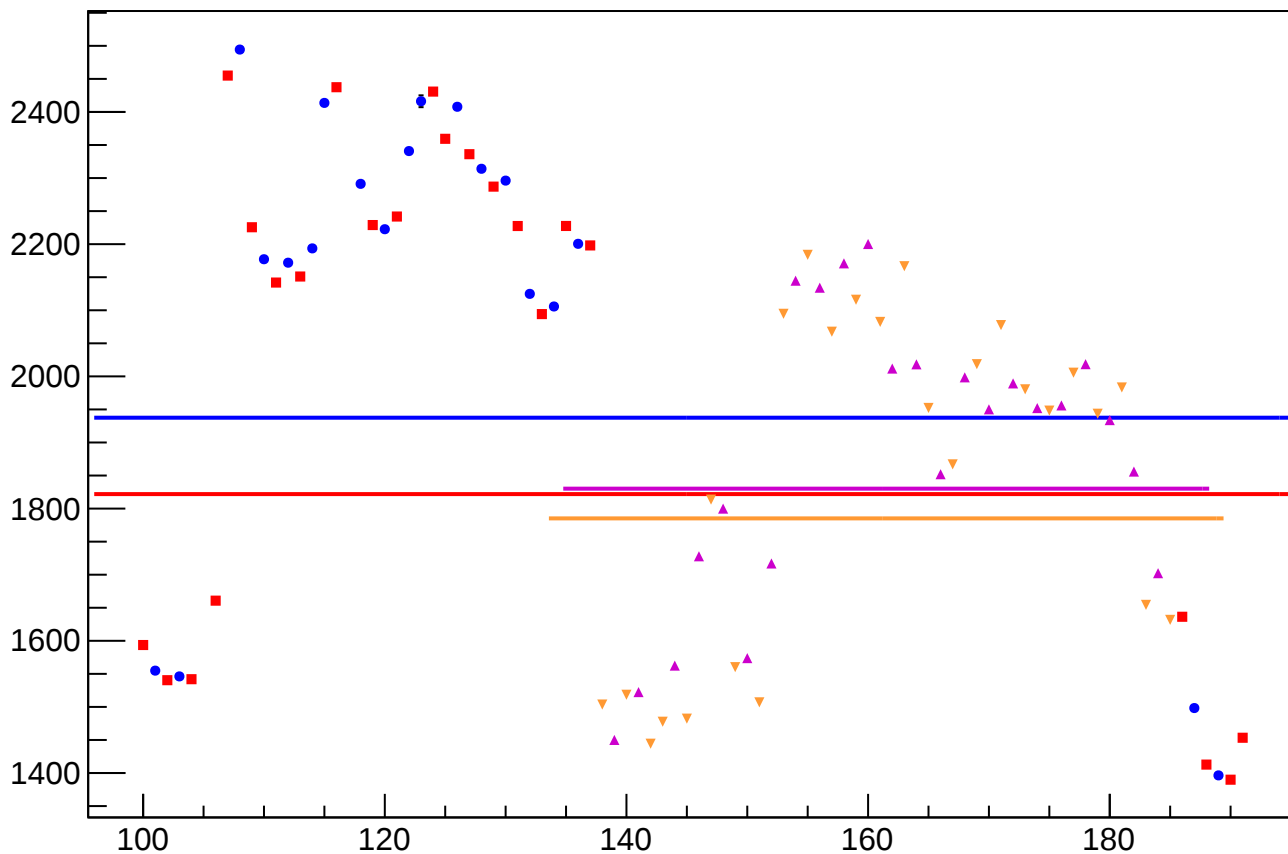
Right: 1.196 ± 0.472 $\chi^2/\text{NDF}: 2862.5/41$

In: 0.486 ± 0.379 $\chi^2/\text{NDF}: 1361.9/41$

Out: 0.986 ± 0.348 $\chi^2/\text{NDF}: 2328.0/47$

All: 0.757 ± 0.256 $\chi^2/\text{NDF}: 3690.9/89$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1937.495 $\pm$ 0.515 χ^2/NDF : 561033.5/18

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

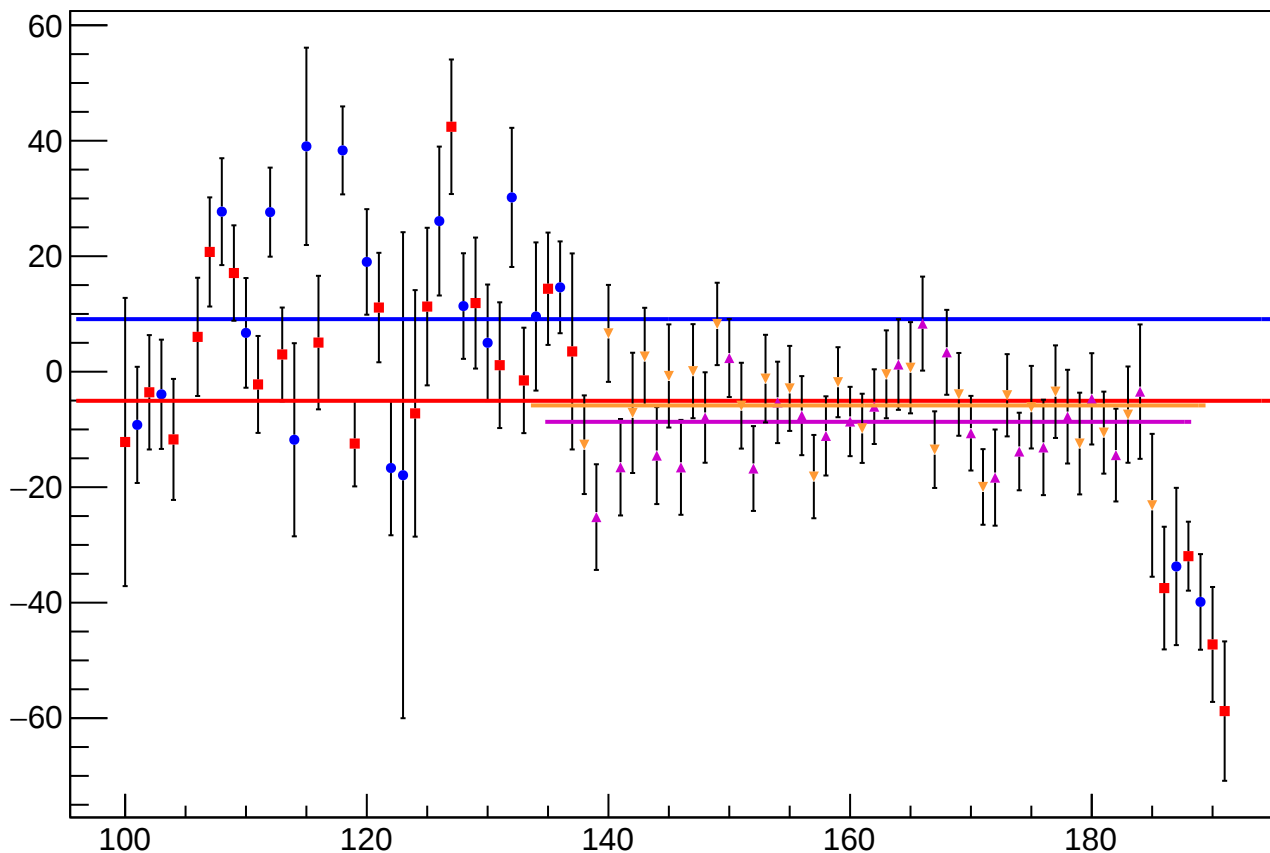
Right: 1870.547 $\pm$ 0.334 χ^2/NDF : 1353746.1/41

In: 1859.177 $\pm$ 0.268 χ^2/NDF : 1101118.5/41

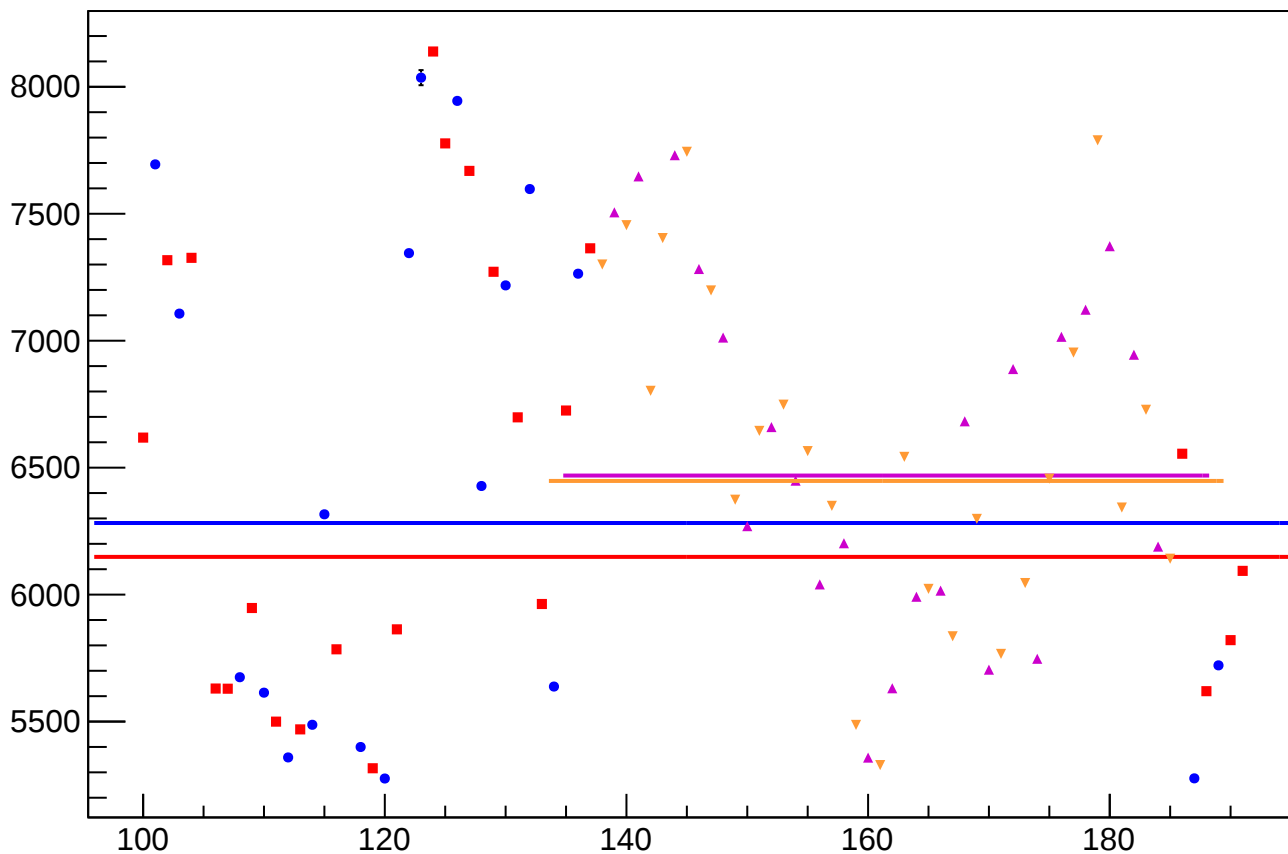
Out: 1796.748 $\pm$ 0.246 χ^2/NDF : 1518975.8/47

All: 1825.351 $\pm$ 0.181 χ^2/NDF : 2649544.8/89

diff_bpm0l06X_mean vs Slug, Sign Corrected



diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6282.038 $\pm$ 1.661 χ^2/NDF : 307937.7/18

Left Out: 6447.712 $\pm$ 1.074 χ^2/NDF : 371671.1/24

Right Out: 6148.588 $\pm$ 1.464 χ^2/NDF : 264612.7/22

Left In: 6468.902 $\pm$ 1.111 χ^2/NDF : 383325.4/22

Left: 6457.948 $\pm$ 0.772 χ^2/NDF : 755184.7/47

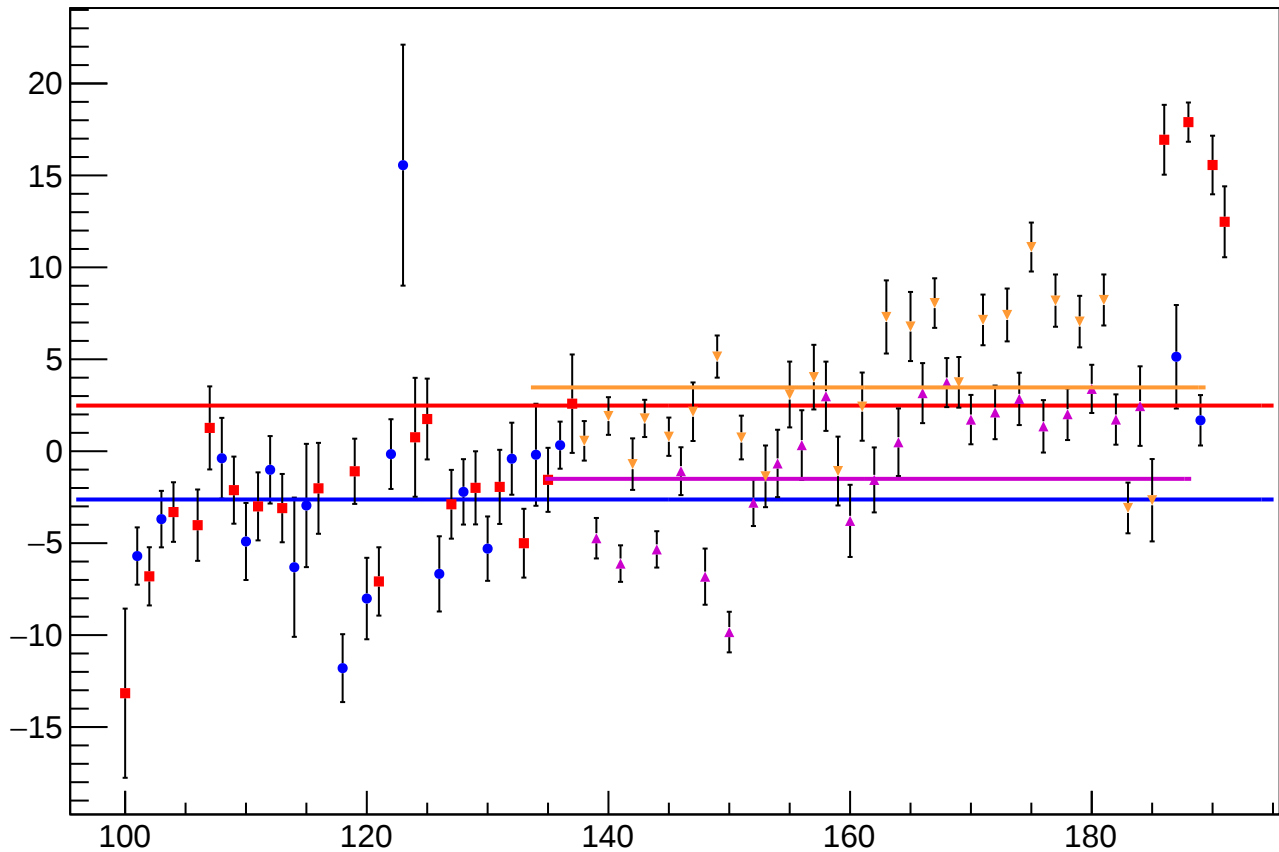
Right: 6206.928 $\pm$ 1.098 χ^2/NDF : 576185.1/41

In: 6411.155 $\pm$ 0.923 χ^2/NDF : 700012.3/41

Out: 6343.063 $\pm$ 0.866 χ^2/NDF : 663442.0/47

All: 6374.923 $\pm$ 0.631 χ^2/NDF : 1366349.3/89

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -2.625 ± 0.444 χ^2/NDF : 79.5/18

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

Right Out: 2.483 ± 0.389 χ^2/NDF : 529.2/22

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

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

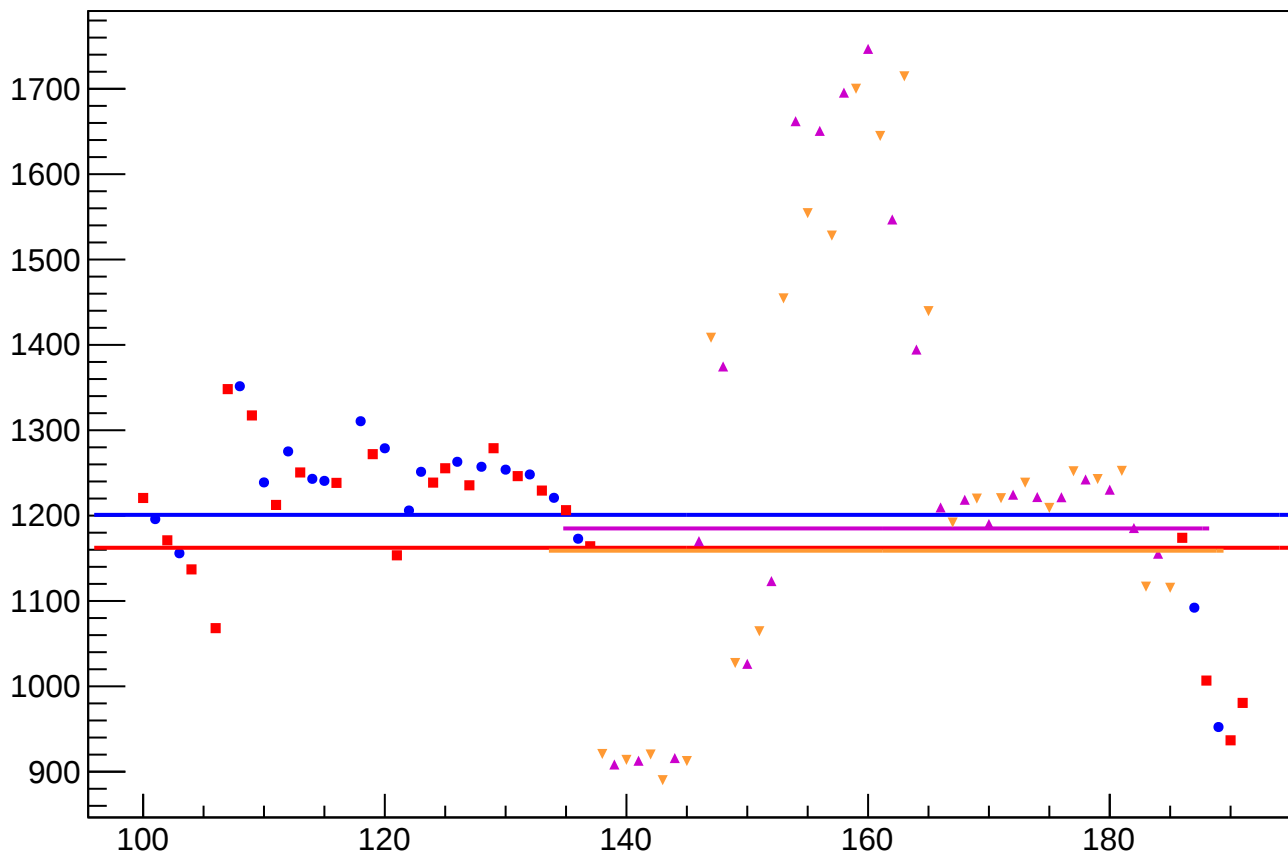
Right: 0.266 ± 0.293 χ^2/NDF : 683.5/41

In: -1.839 ± 0.243 χ^2/NDF : 286.7/41

Out: 3.139 ± 0.225 χ^2/NDF : 709.4/47

All: 0.840 ± 0.165 χ^2/NDF : 1221.5/89

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1200.879 $\pm$ 0.314 χ^2/NDF : 101889.3/18

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

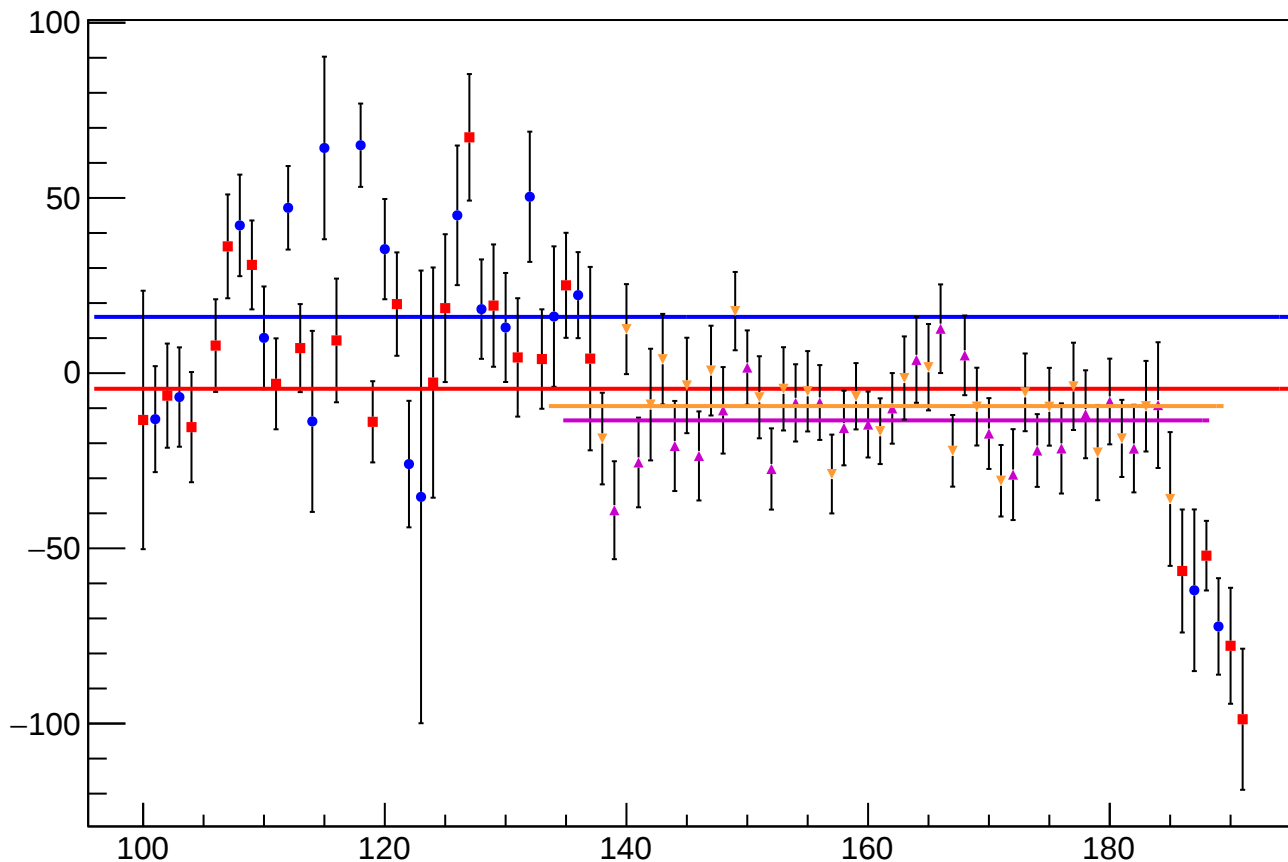
Right: 1179.061 $\pm$ 0.207 χ^2/NDF : 281938.6/41

In: 1189.734 $\pm$ 0.172 χ^2/NDF : 1294117.3/41

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

All: 1173.757 $\pm$ 0.117 χ^2/NDF : 2892209.3/89

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 16.054 $\pm$ 3.656 χ^2 /NDF: 104.6/18

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

Right Out: -4.462 $\pm$ 3.215 χ^2 /NDF: 118.4/22

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

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

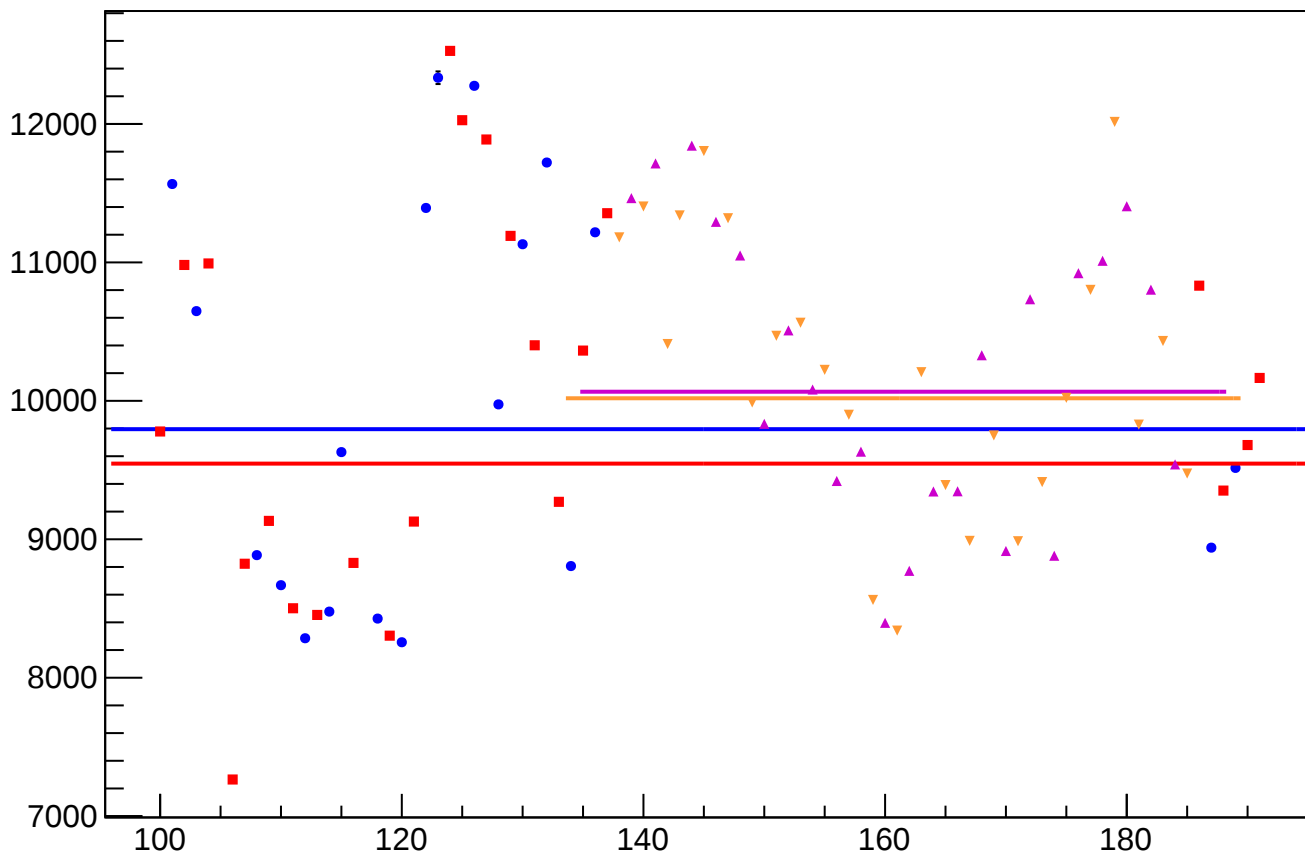
Right: 4.487 $\pm$ 2.414 χ^2 /NDF: 240.7/41

In: -4.366 $\pm$ 2.031 χ^2 /NDF:171.3/41

Out: -7.671 $\pm$ 1.902 χ^2 /NDF:146.2/47

All: -6.127 $\pm$ 1.388 χ^2 /NDF: 318.9/89

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9795.385 $\pm$ 2.585 χ^2/NDF : 262966.9/18

Left Out: 10018.563 $\pm$ 1.668 χ^2/NDF : 344534.6/24

Right Out: 9546.575 $\pm$ 2.274 χ^2/NDF : 288555.4/22

Left In: 10065.909 $\pm$ 1.727 χ^2/NDF : 357868.9/22

Left: 10041.404 $\pm$ 1.200 χ^2/NDF : 702792.3/47

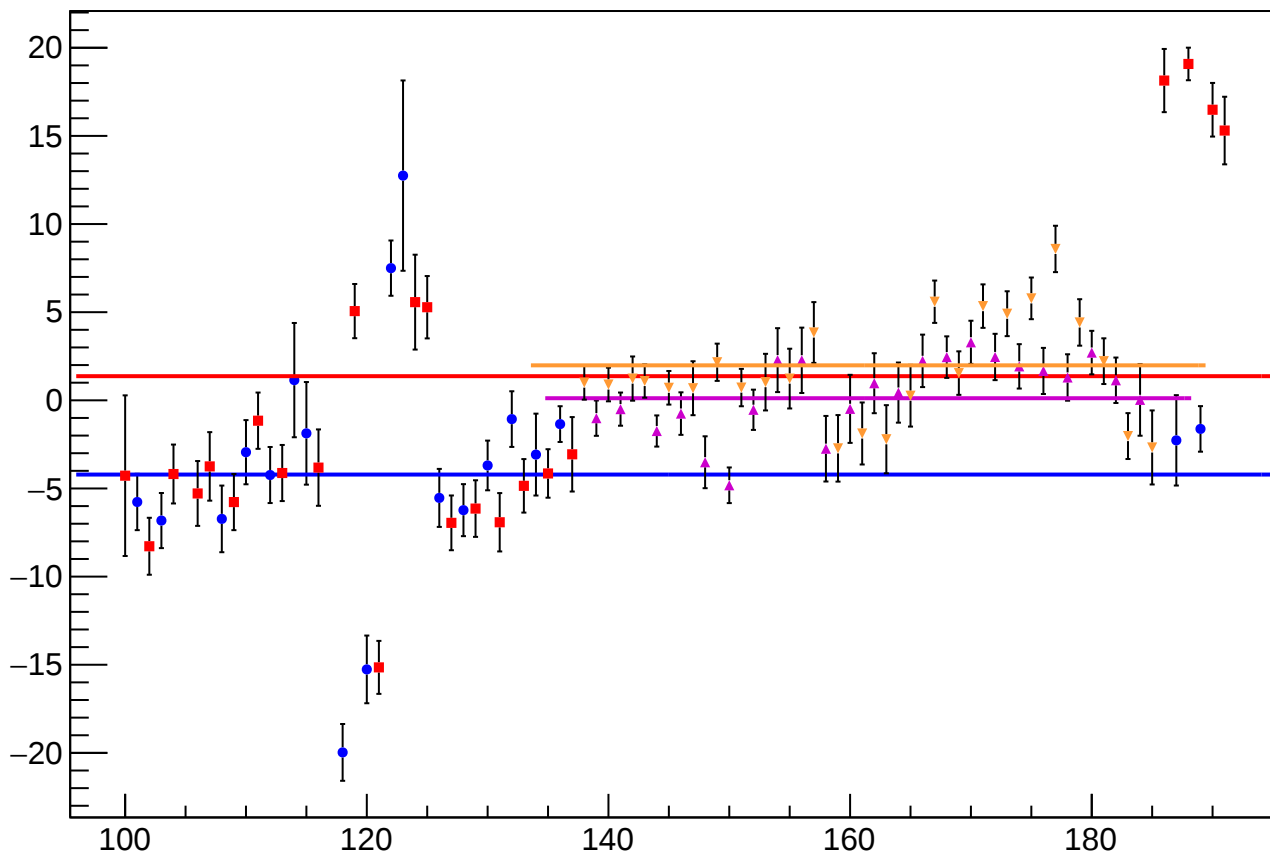
Right: 9655.101 $\pm$ 1.707 χ^2/NDF : 556746.1/41

In: 9982.400 $\pm$ 1.436 χ^2/NDF : 628407.3/41

Out: 9853.451 $\pm$ 1.345 χ^2/NDF : 661110.4/47

All: 9913.689 $\pm$ 0.982 χ^2/NDF : 1293813.3/89

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.211 ± 0.385 $\chi^2/\text{NDF}: 223.3/18$

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 $\chi^2/\text{NDF}: 194.2/47$

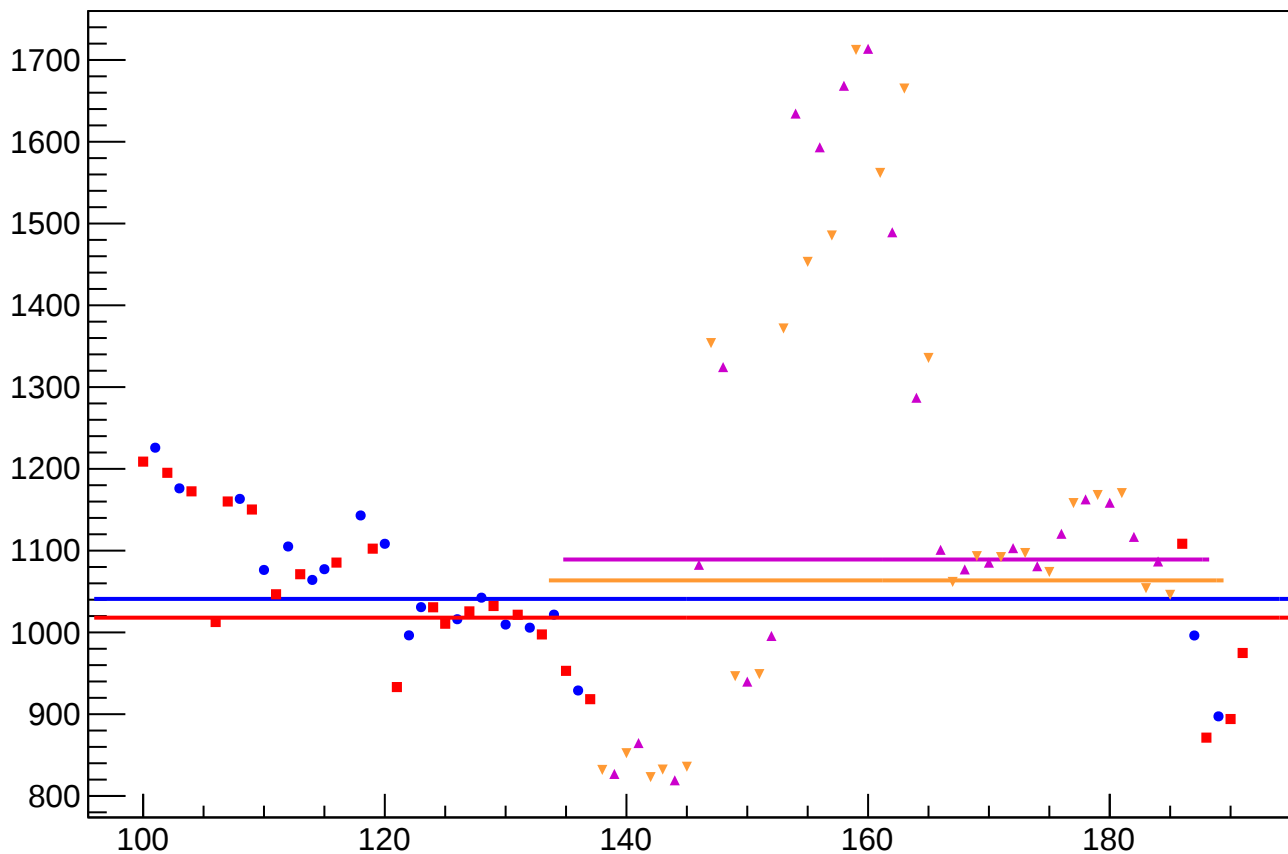
Right: -1.079 ± 0.255 $\chi^2/\text{NDF}: 1302.8/41$

In: -1.297 ± 0.220 $\chi^2/\text{NDF}: 375.9/41$

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

All: 0.351 ± 0.150 $\chi^2/\text{NDF}: 1544.8/89$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1040.971 ± 0.273 $\chi^2/\text{NDF}: 118964.7/18$

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

Right Out: 1018.032 ± 0.241 $\chi^2/\text{NDF}: 165722.7/22$

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

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

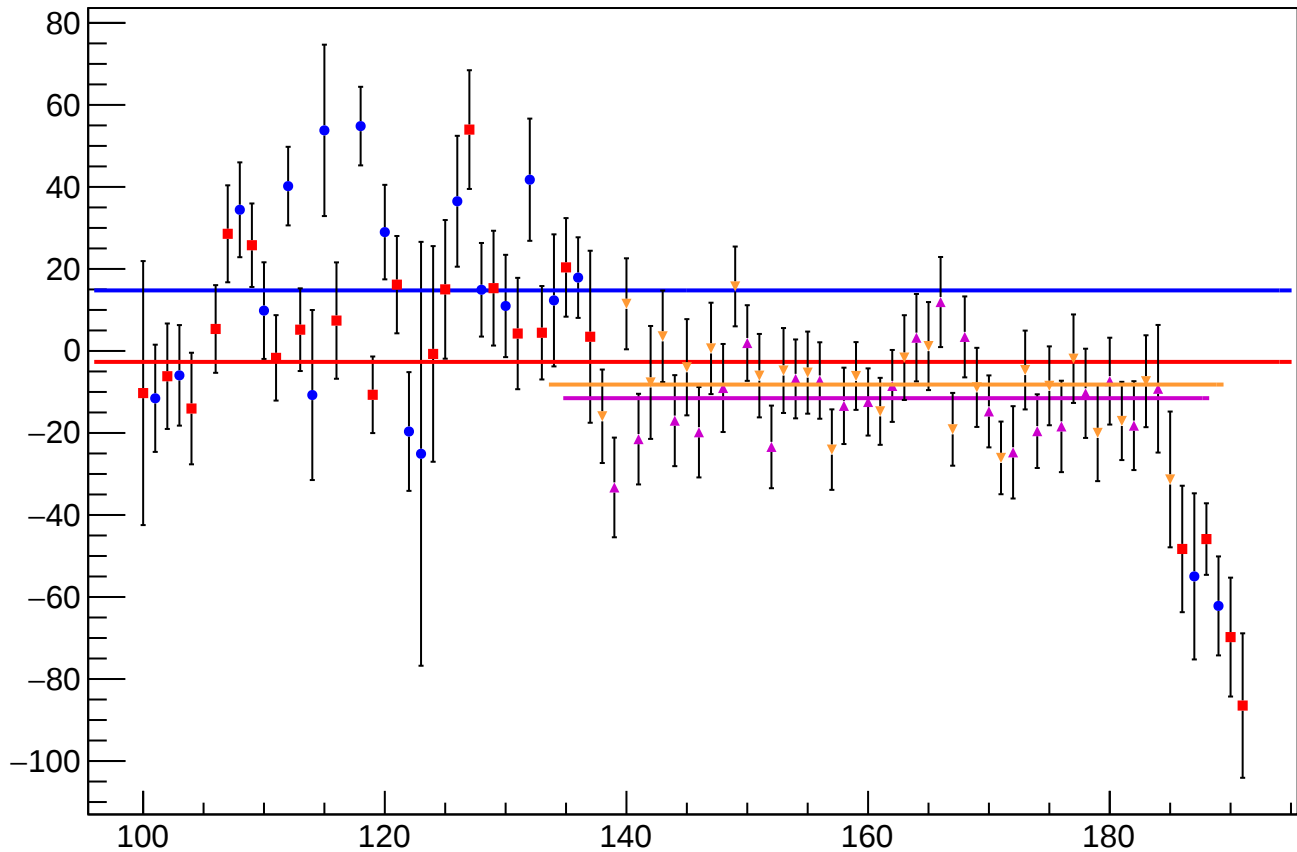
Right: 1028.098 ± 0.181 $\chi^2/\text{NDF}: 288663.0/41$

In: 1073.396 ± 0.156 $\chi^2/\text{NDF}: 1570477.3/41$

Out: 1047.263 ± 0.144 $\chi^2/\text{NDF}: 1806031.3/47$

All: 1059.325 ± 0.106 $\chi^2/\text{NDF}: 3391645.7/89$

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 14.764 $\pm$ 2.984 χ^2 /NDF: 105.1/18

Left Out: -8.195 $\pm$ 2.049 χ^2 /NDF:26.2/24

Right Out: -2.668 $\pm$ 2.644 χ^2 /NDF: 120.4/22

Left In: -11.515 $\pm$ 2.122 χ^2 /NDF:21.0/22

Left: -9.796 $\pm$ 1.474 χ^2 /NDF: 48.5/47

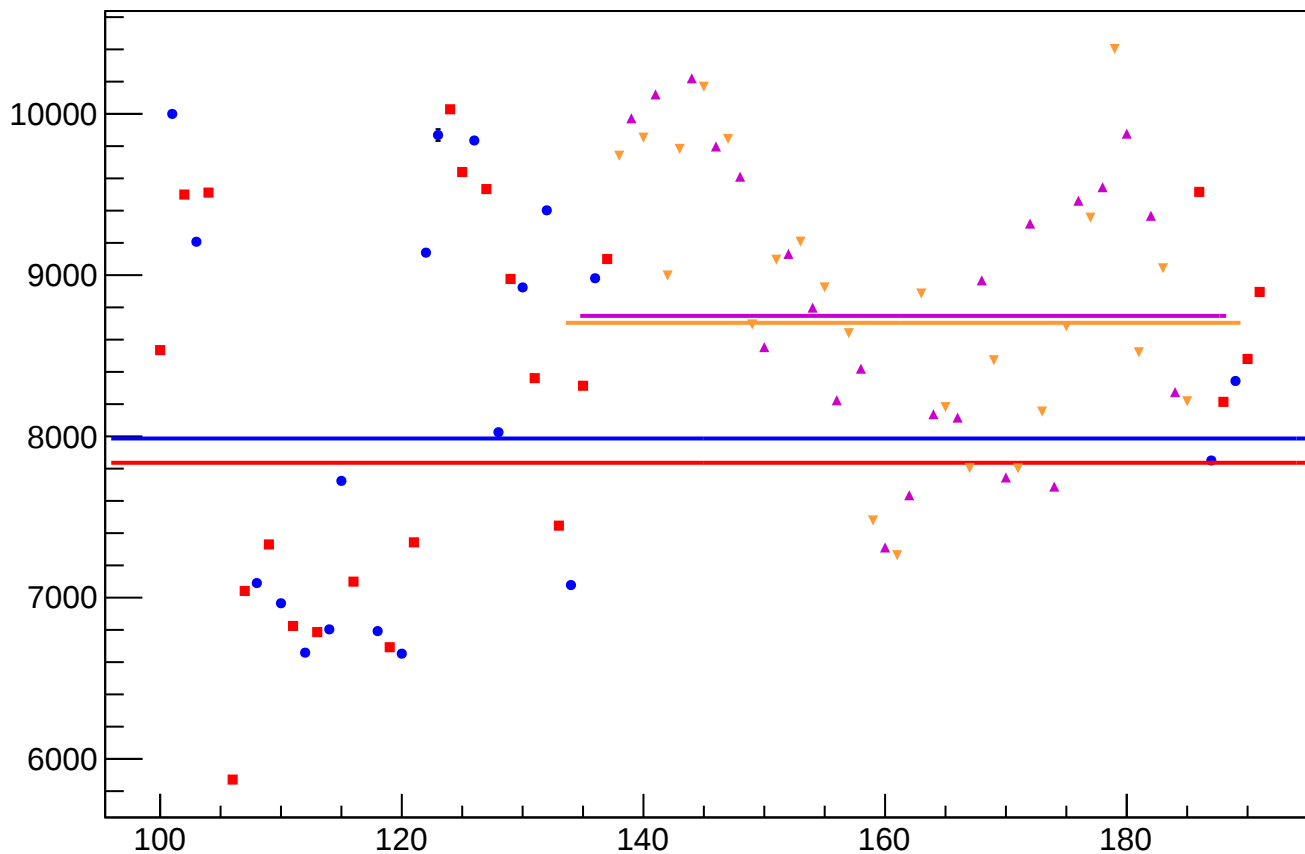
Right: 5.000 $\pm$ 1.979 χ^2 /NDF: 244.6/41

In: -2.687 $\pm$ 1.730 χ^2 /NDF:177.7/41

Out: -6.122 $\pm$ 1.619 χ^2 /NDF:149.2/47

All: -4.517 $\pm$ 1.182 χ^2 /NDF: 329.0/89

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7986.994 $\pm$ 2.110 χ^2 /NDF: 297584.8/18

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

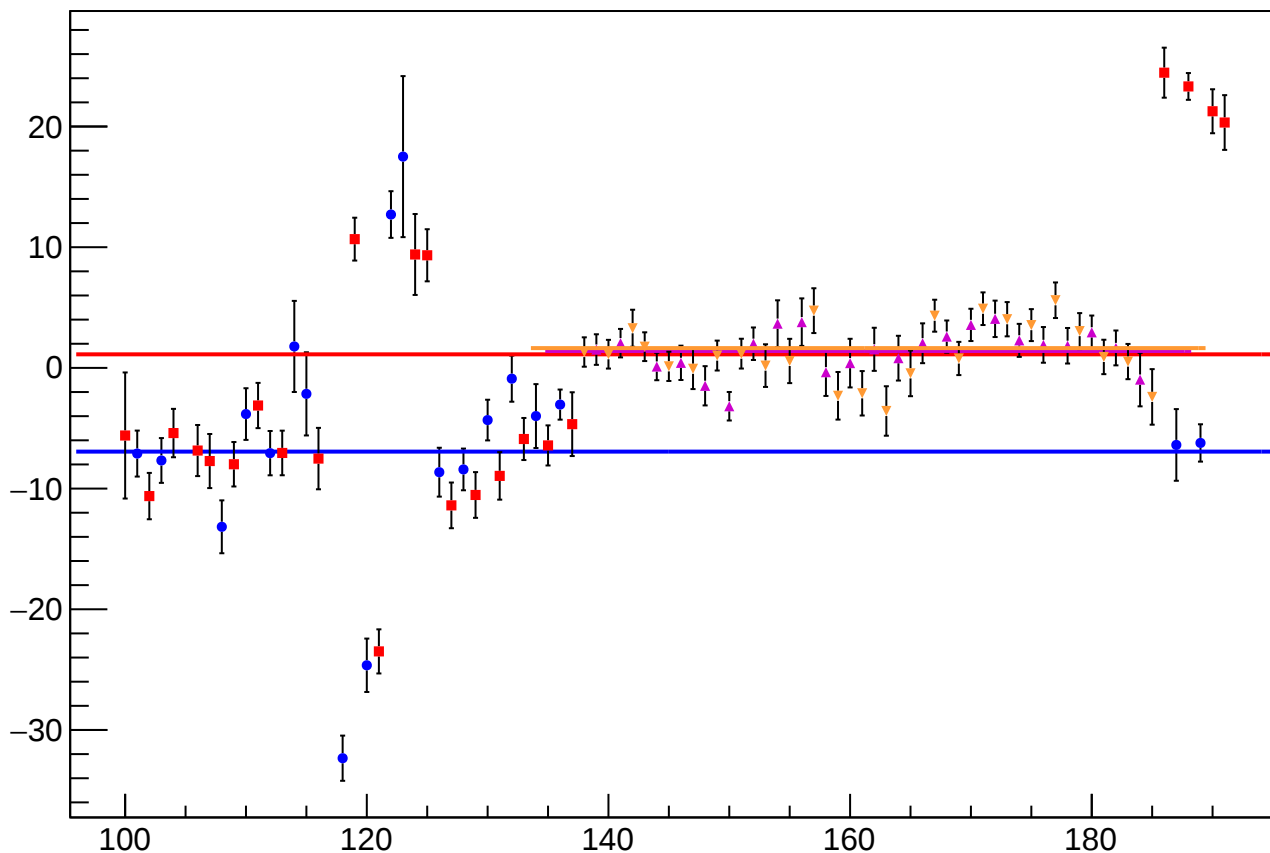
Right: 7902.627 $\pm$ 1.399 χ^2 /NDF: 657980.8/41

In: 8491.972 $\pm$ 1.223 χ^2 /NDF:730942.4/41

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

All: 8431.609 $\pm$ 0.836 χ^2 /NDF: 1560033.5/89

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.936 ± 0.459 $\chi^2/\text{NDF}: 407.6/18$

Left Out: 1.639 ± 0.294 $\chi^2/\text{NDF}: 51.3/24$

Right Out: 1.124 ± 0.404 $\chi^2/\text{NDF}: 1241.3/22$

Left In: 1.404 ± 0.309 $\chi^2/\text{NDF}: 34.1/22$

Left: 1.528 ± 0.213 $\chi^2/\text{NDF}: 85.8/47$

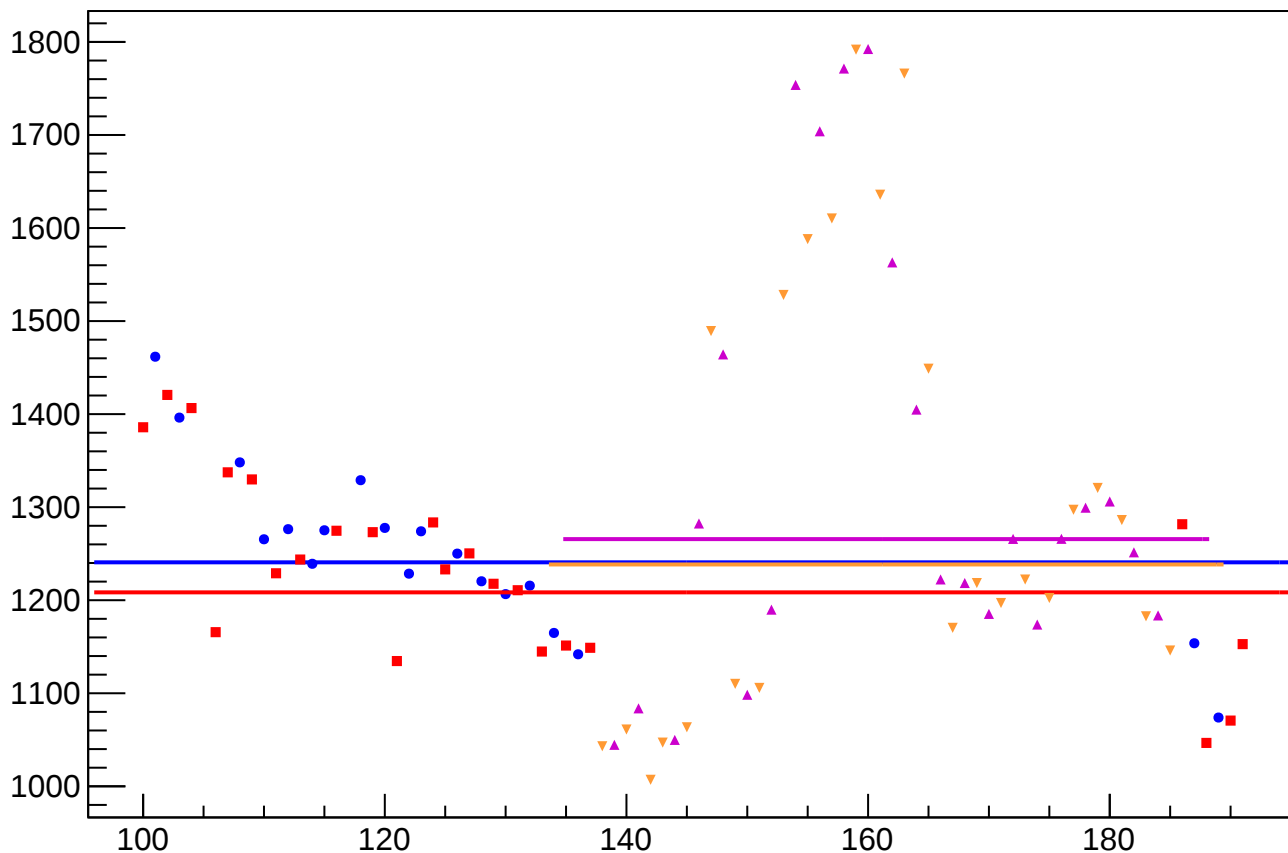
Right: -2.398 ± 0.303 $\chi^2/\text{NDF}: 1822.5/41$

In: -1.197 ± 0.256 $\chi^2/\text{NDF}: 668.9/41$

Out: 1.461 ± 0.238 $\chi^2/\text{NDF}: 1293.7/47$

All: 0.233 ± 0.174 $\chi^2/\text{NDF}: 2020.5/89$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1240.720 ± 0.325 $\chi^2/\text{NDF}: 92801.7/18$

Left Out: 1238.437 ± 0.208 $\chi^2/\text{NDF}: 965173.0/24$

Right Out: 1208.443 ± 0.286 $\chi^2/\text{NDF}: 136651.4/22$

Left In: 1265.673 ± 0.218 $\chi^2/\text{NDF}: 845157.0/22$

Left: 1251.361 ± 0.151 $\chi^2/\text{NDF}: 1818496.6/47$

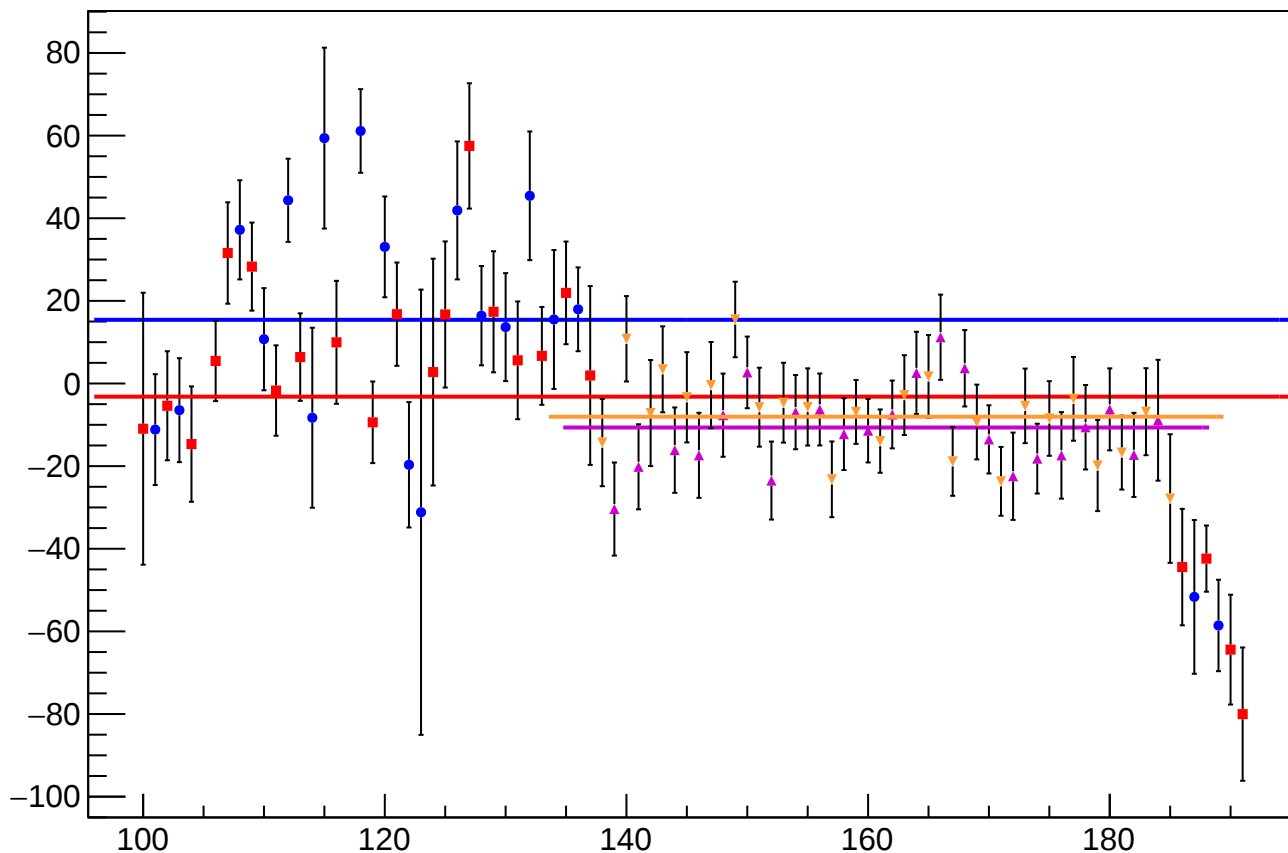
Right: 1222.545 ± 0.215 $\chi^2/\text{NDF}: 235022.3/41$

In: 1257.892 ± 0.181 $\chi^2/\text{NDF}: 942026.6/41$

Out: 1228.080 ± 0.168 $\chi^2/\text{NDF}: 1109031.2/47$

All: 1241.856 ± 0.123 $\chi^2/\text{NDF}: 2065610.4/89$

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 15.417 ± 3.081 $\chi^2/\text{NDF}: 116.4/18$

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 $\chi^2/\text{NDF}: 48.6/47$

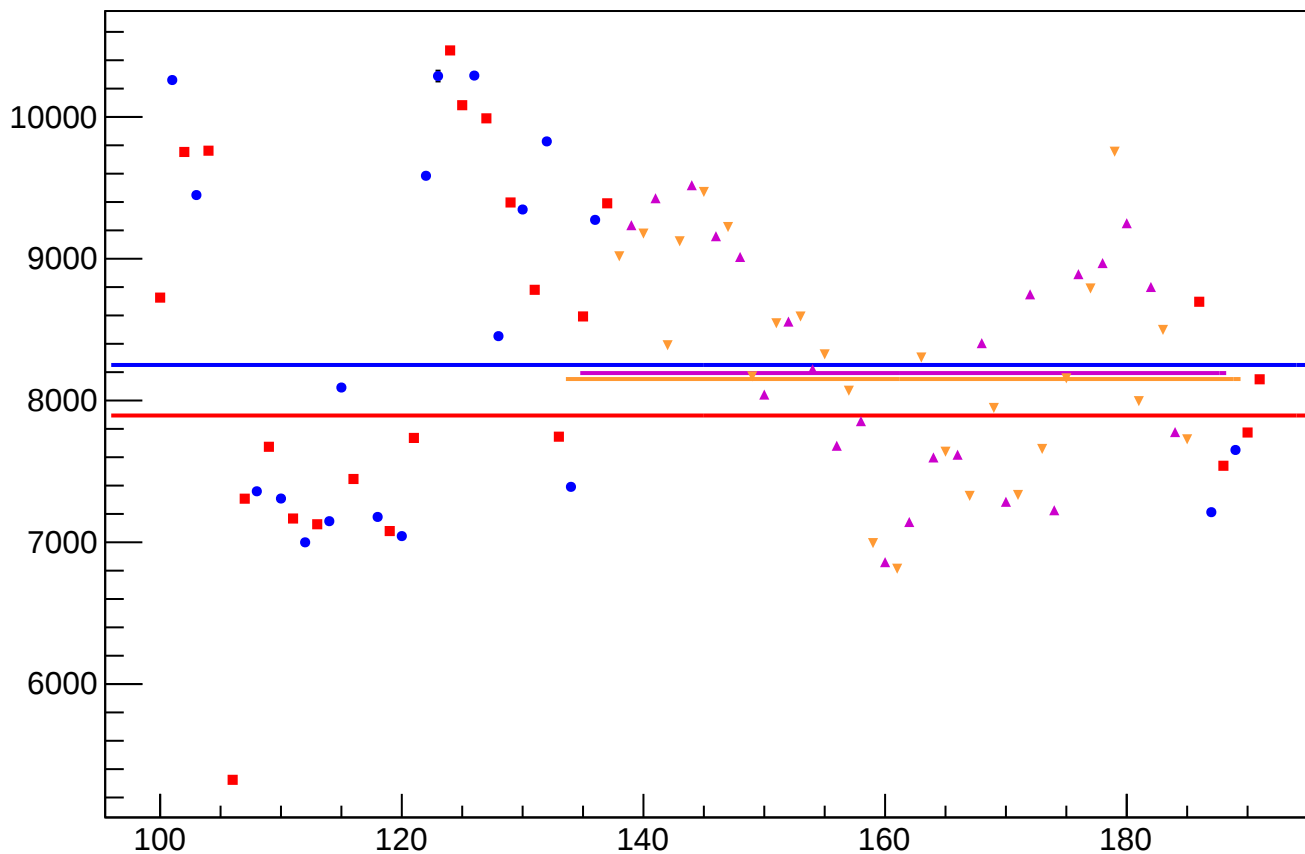
Right: 4.782 ± 2.016 $\chi^2/\text{NDF}: 261.1/41$

In: -2.991 ± 1.670 $\chi^2/\text{NDF}: 188.4/41$

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

All: -4.808 ± 1.139 $\chi^2/\text{NDF}: 342.9/89$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8250.731 $\pm$ 2.178 χ^2/NDF : 284784.2/18

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

Right Out: 7894.264 $\pm$ 1.886 χ^2/NDF : 399691.2/22

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

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

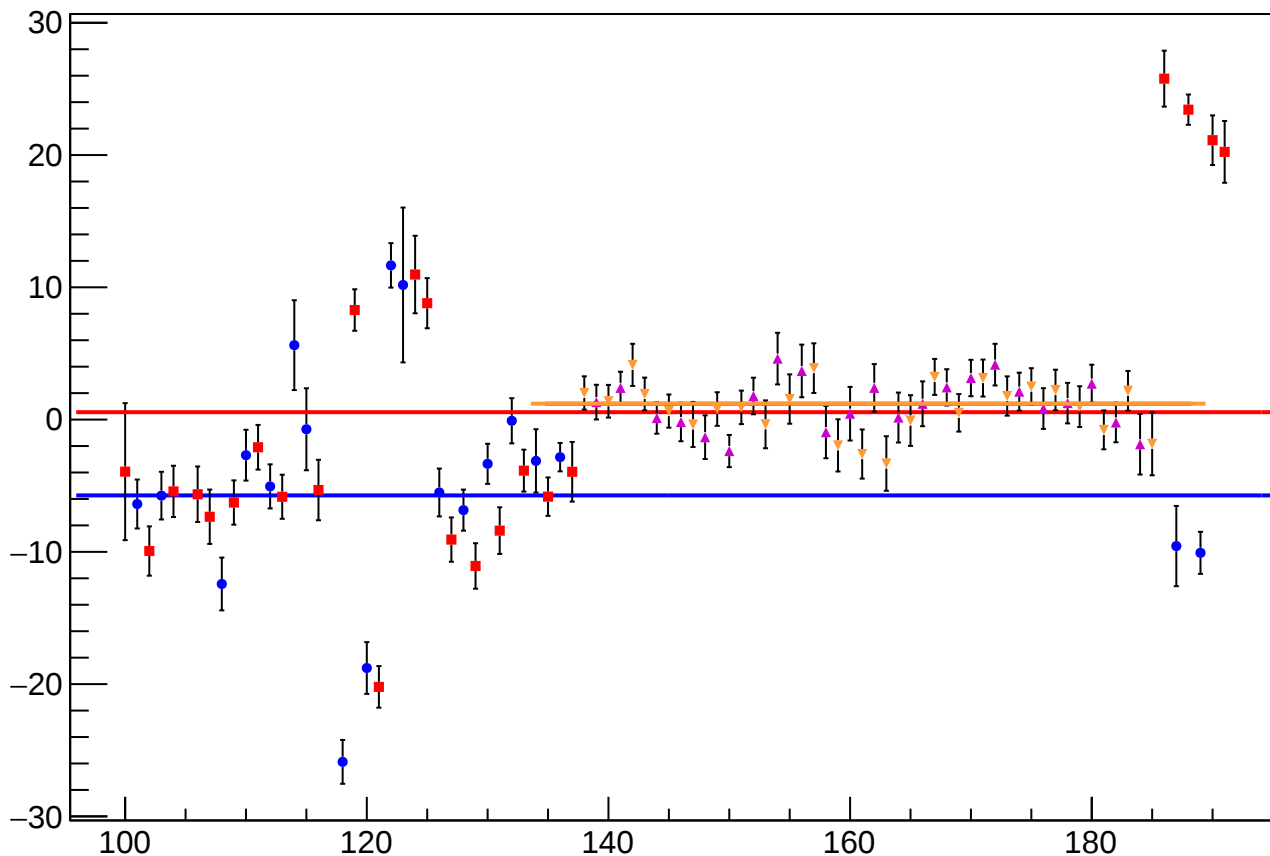
Right: 8046.957 $\pm$ 1.426 χ^2/NDF : 699782.2/41

In: 8210.416 $\pm$ 1.181 χ^2/NDF : 623646.9/41

Out: 8063.787 $\pm$ 1.101 χ^2/NDF : 733757.2/47

All: 8131.976 $\pm$ 0.805 χ^2/NDF : 1365650.8/89

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.733 ± 0.418 χ^2/NDF : 365.8/18

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

Right Out: 0.560 ± 0.376 χ^2/NDF : 1204.3/22

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

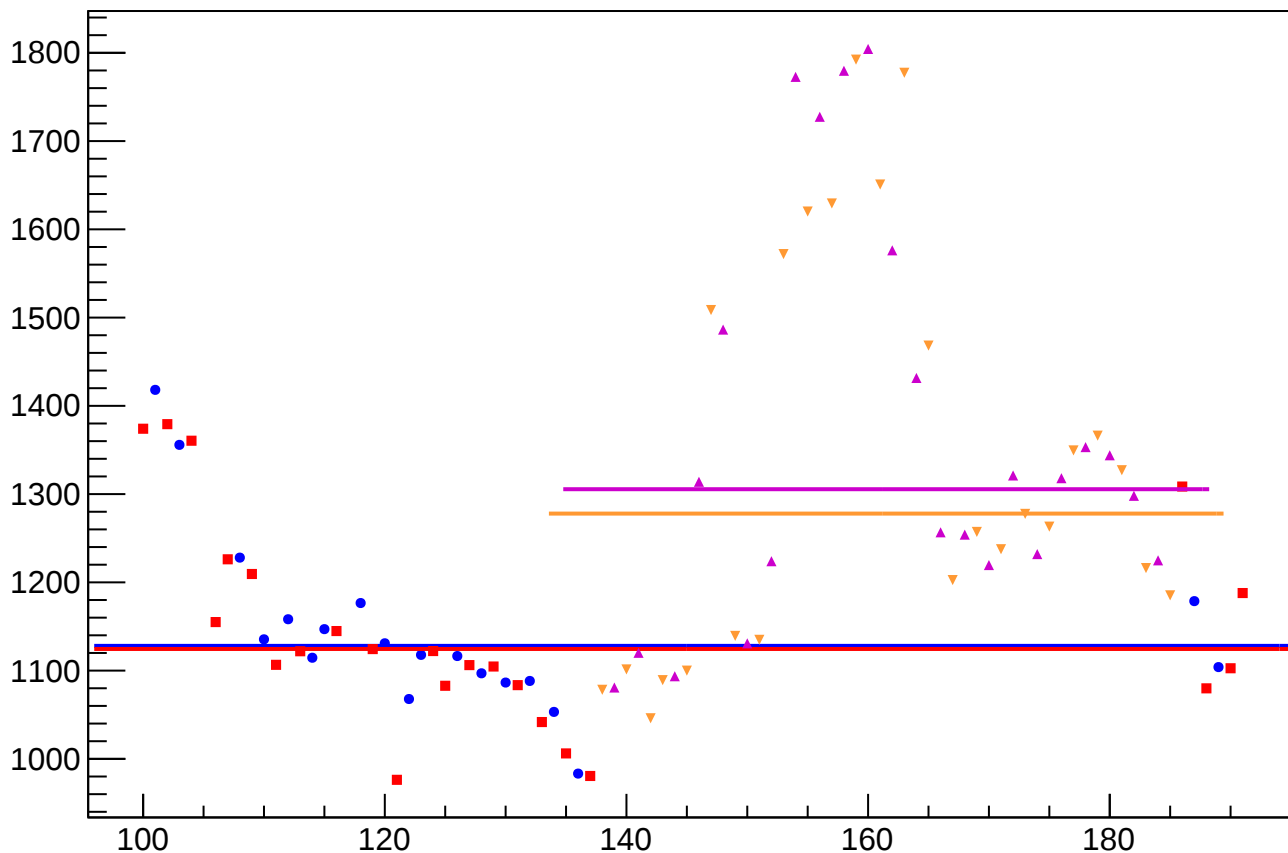
Right: -2.258 ± 0.280 χ^2/NDF : 1695.3/41

In: -1.345 ± 0.253 χ^2/NDF : 571.1/41

Out: 0.951 ± 0.236 χ^2/NDF : 1236.0/47

All: -0.116 ± 0.173 χ^2/NDF : 1851.2/89

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.031 $\pm$ 0.296 χ^2 /NDF: 134100.0/18

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

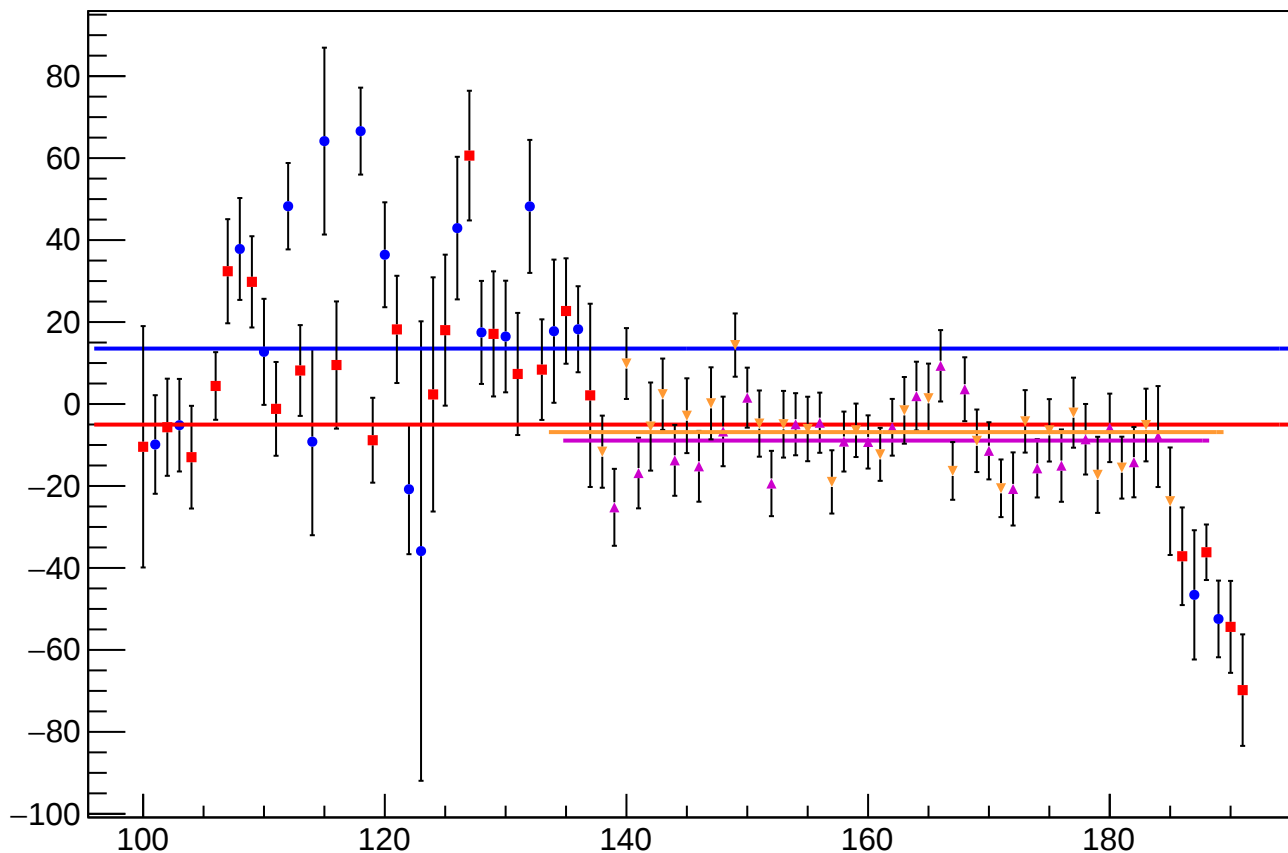
Right: 1126.097 $\pm$ 0.198 χ^2 /NDF: 283754.4/41

In: 1240.413 $\pm$ 0.179 χ^2 /NDF: 1122984.8/41

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

All: 1228.268 $\pm$ 0.122 χ^2 /NDF: 2361129.8/89

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 13.528 ± 3.072 $\chi^2/\text{NDF}: 132.9/18$

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 $\chi^2/\text{NDF}: 51.3/47$

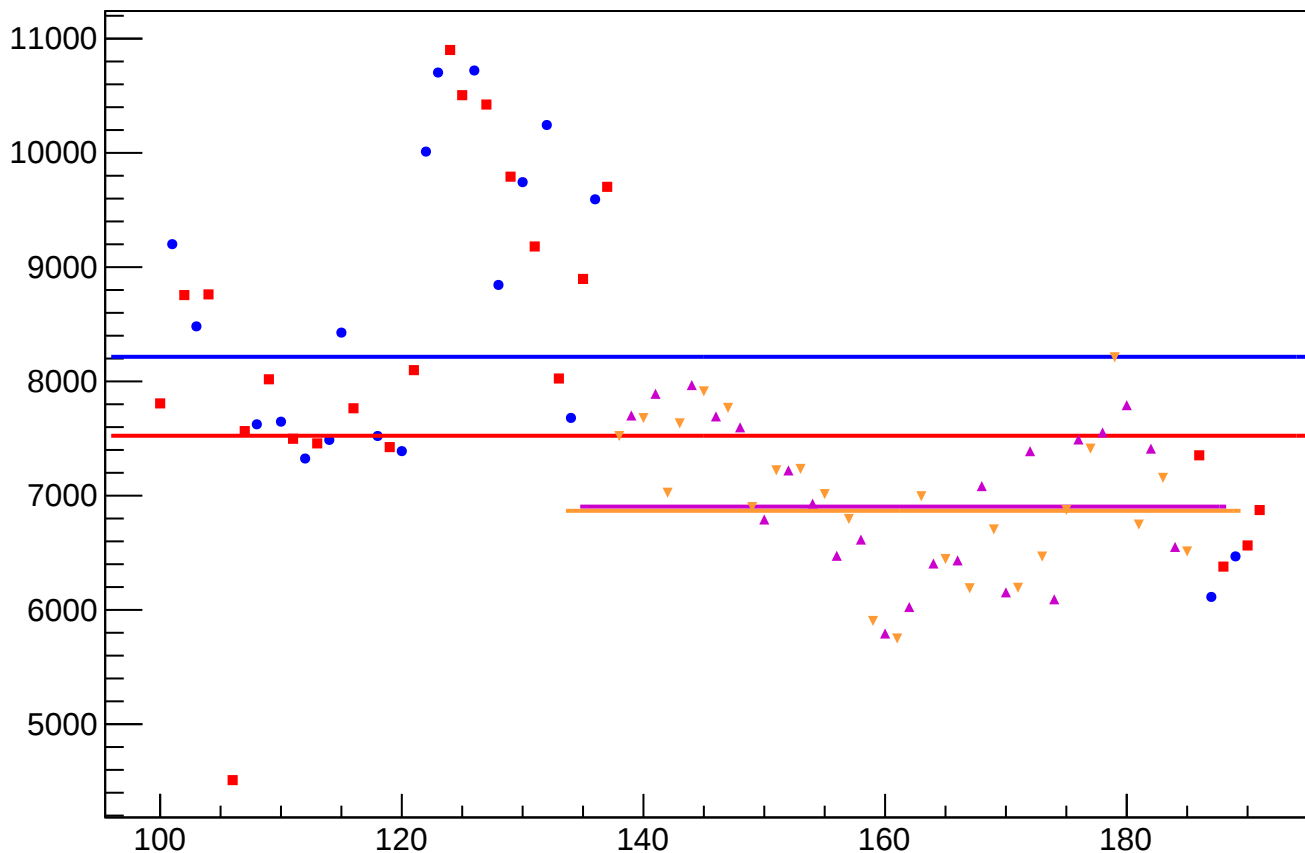
Right: 2.583 ± 1.967 $\chi^2/\text{NDF}: 278.3/41$

In: -3.781 ± 1.470 $\chi^2/\text{NDF}: 195.9/41$

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

All: -5.150 ± 1.001 $\chi^2/\text{NDF}: 350.5/89$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8215.263 ± 2.172 $\chi^2/\text{NDF}: 330471.4/18$

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

Right Out: 7524.354 ± 1.811 $\chi^2/\text{NDF}: 654842.7/22$

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

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

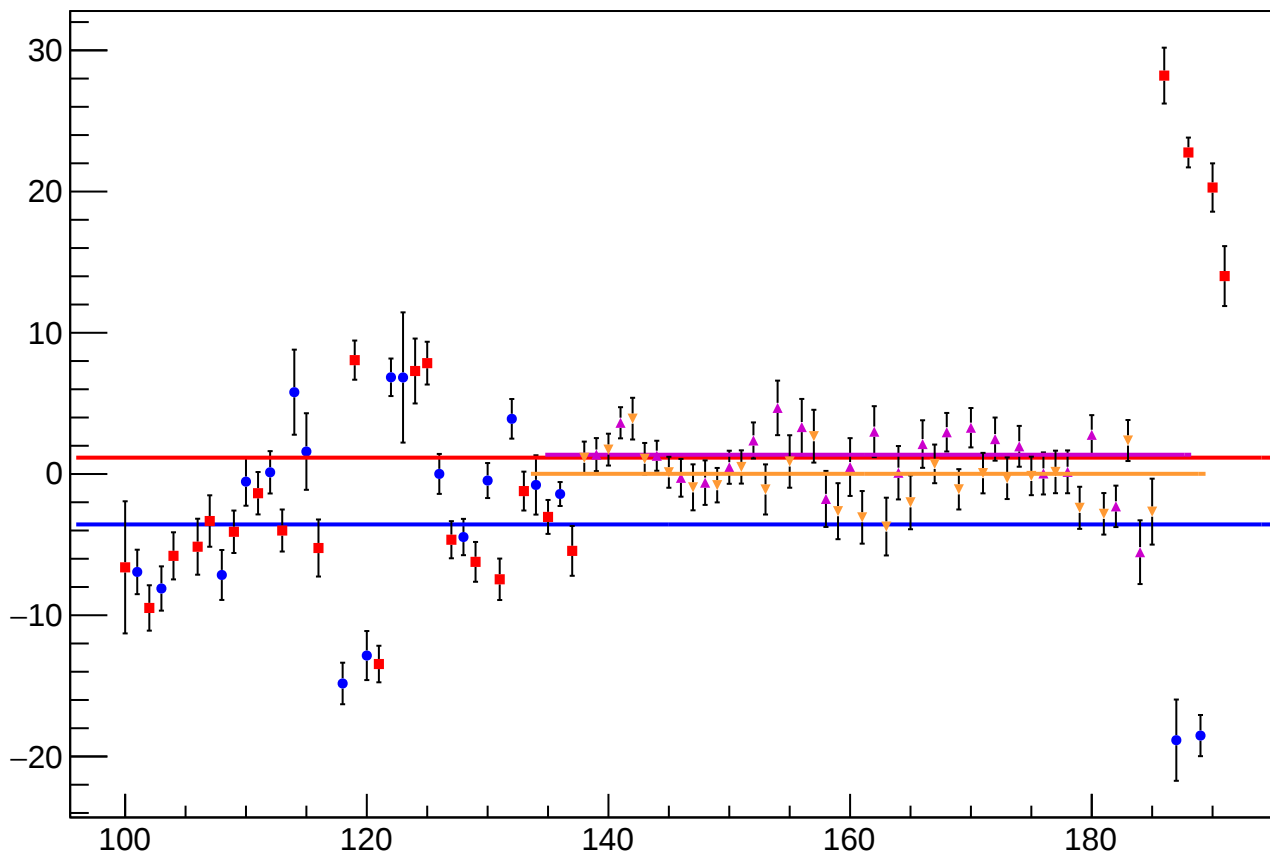
Right: 7807.570 ± 1.391 $\chi^2/\text{NDF}: 1045006.2/41$

In: 7204.384 ± 1.040 $\chi^2/\text{NDF}: 937258.8/41$

Out: 7054.439 ± 0.966 $\chi^2/\text{NDF}: 1055916.0/47$

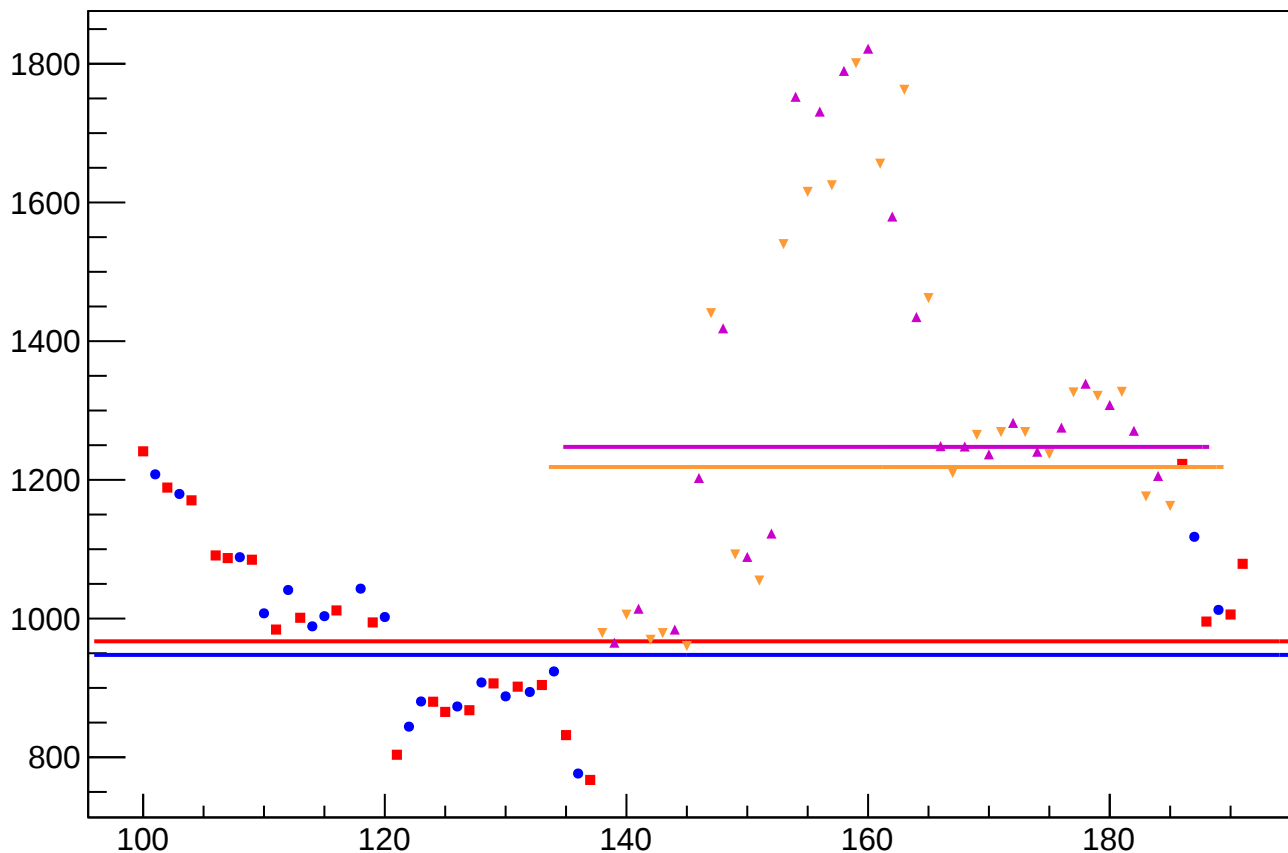
All: 7123.930 ± 0.708 $\chi^2/\text{NDF}: 2004338.0/89$

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47
 Right: -1.012 ± 0.239 χ^2/NDF : 1648.4/41
 In: -0.751 ± 0.231 χ^2/NDF : 527.0/41
 Out: 0.522 ± 0.216 χ^2/NDF : 1216.5/47
 All: -0.073 ± 0.158 χ^2/NDF : 1759.6/89

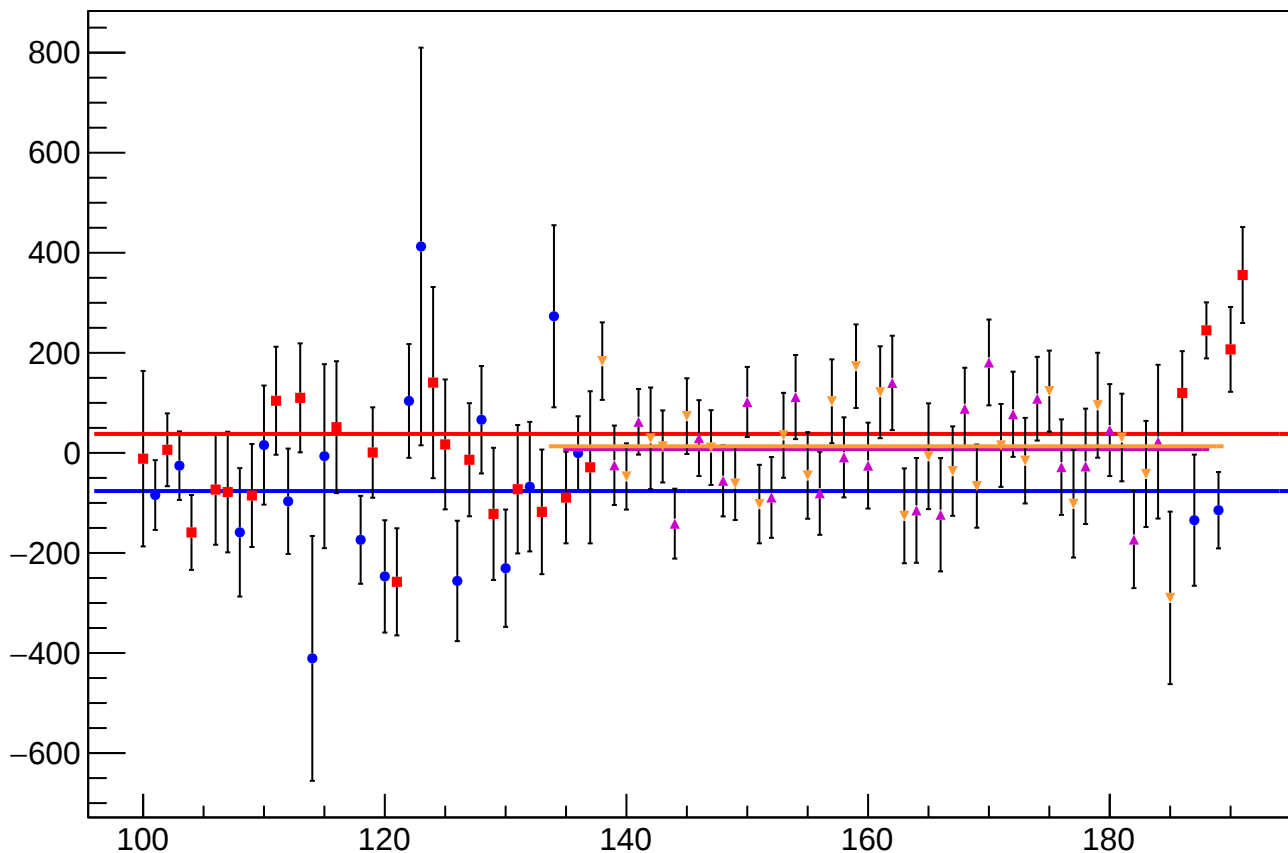
diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 947.590 $\pm$ 0.249 χ^2/NDF : 253383.6/18
 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: 958.190 $\pm$ 0.169 χ^2/NDF : 522833.6/41
 In: 1118.883 $\pm$ 0.163 χ^2/NDF :2153727.6/41
 Out: 1107.069 $\pm$ 0.153 χ^2/NDF :2198636.8/47
 All: 1112.591 $\pm$ 0.112 χ^2/NDF : 4355153.4/89

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -76.282 ± 24.172 $\chi^2/\text{NDF}: 22.1/18$

Left Out: 13.207 ± 17.146 $\chi^2/\text{NDF}: 26.8/24$

Right Out: 37.916 ± 20.837 $\chi^2/\text{NDF}: 55.2/22$

Left In: 7.618 ± 17.672 $\chi^2/\text{NDF}: 28.1/22$

Left: 10.497 ± 12.306 $\chi^2/\text{NDF}: 55.0/47$

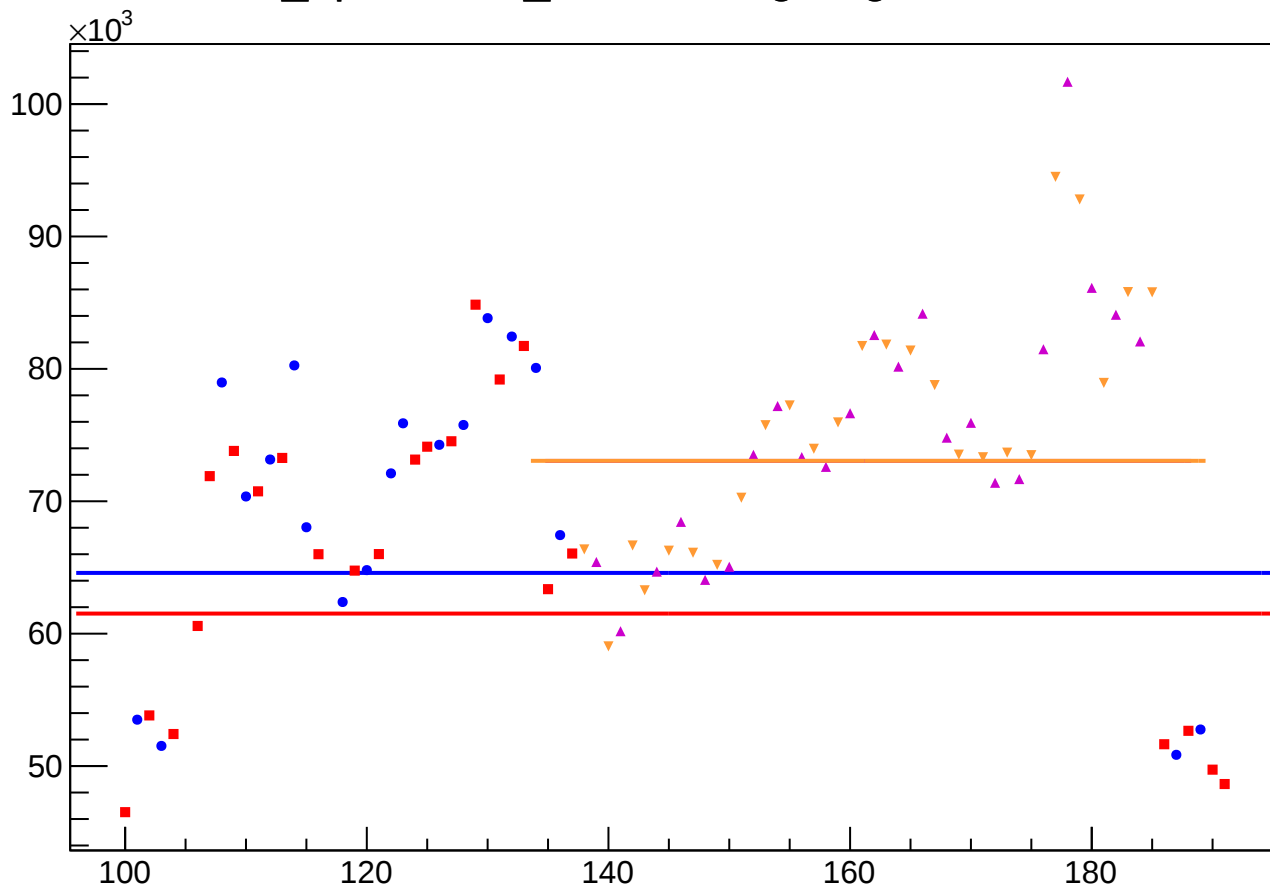
Right: -10.766 ± 15.783 $\chi^2/\text{NDF}: 90.1/41$

In: -21.604 ± 14.266 $\chi^2/\text{NDF}: 58.1/41$

Out: 23.183 ± 13.240 $\chi^2/\text{NDF}: 82.8/47$

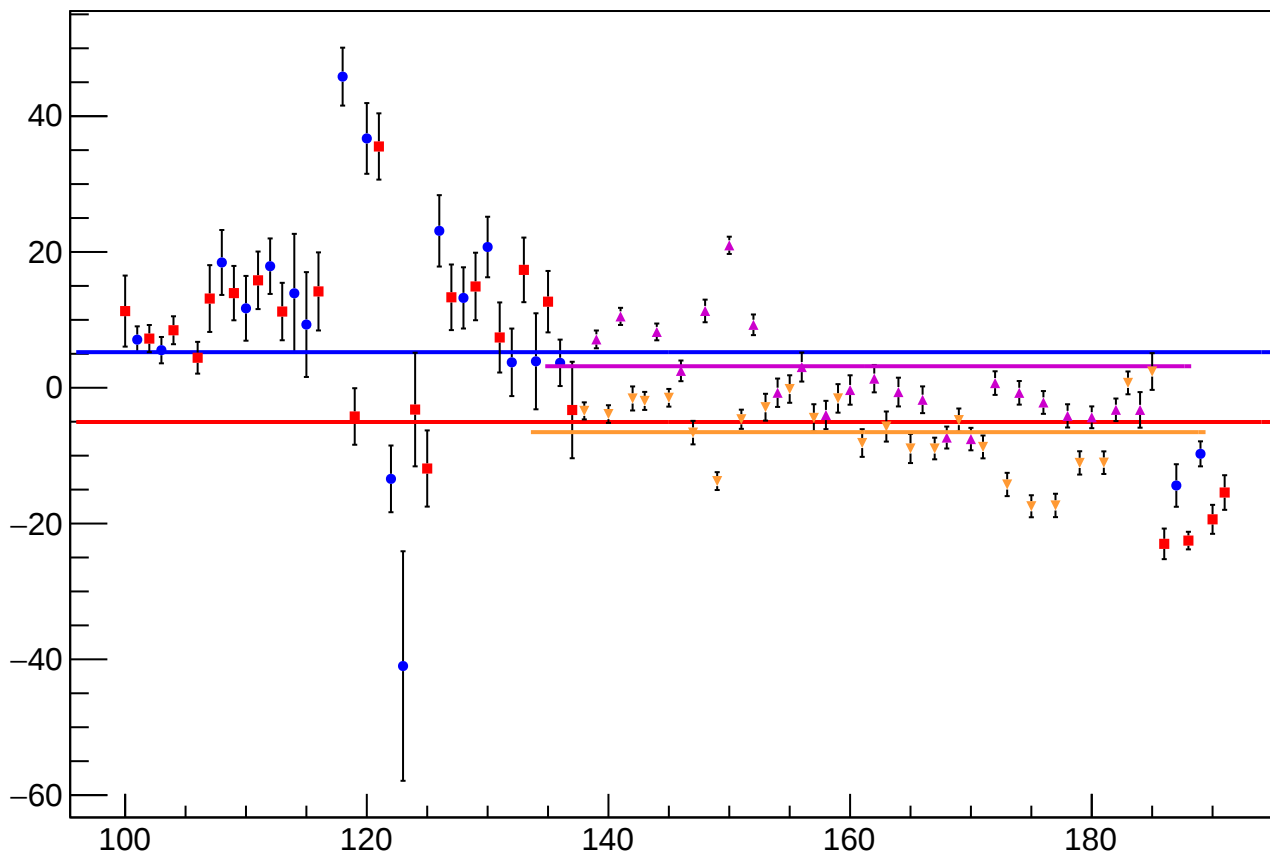
All: 2.458 ± 9.704 $\chi^2/\text{NDF}: 146.2/89$

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 64588.972 $\pm$ 17.092	χ^2/NDF : 400896.4/18	Left: 73050.085 $\pm$ 8.701	χ^2/NDF : 936576.6/47
Left Out: 73054.401 $\pm$ 12.124	χ^2/NDF : 473050.9/24	Right: 62826.816 $\pm$ 11.160	χ^2/NDF : 936857.6/41
Right Out: 61517.410 $\pm$ 14.734	χ^2/NDF : 517434.6/22	In: 70100.061 $\pm$ 10.087	χ^2/NDF : 1023943.9/41
Left In: 73045.500 $\pm$ 12.496	χ^2/NDF : 463525.5/22	Out: 68396.465 $\pm$ 9.362	χ^2/NDF : 1356065.7/47
		All: 69184.807 $\pm$ 6.862	χ^2/NDF : 2395332.4/8

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 5.243 $\pm$ 0.812 χ^2/NDF : 302.6/18

Left Out: -6.537 $\pm$ 0.332 χ^2/NDF : 252.7/24

Right Out: -5.043 $\pm$ 0.633 χ^2/NDF : 644.9/22

Left In: 3.171 $\pm$ 0.346 χ^2/NDF : 487.3/22

Left: -1.892 $\pm$ 0.240 χ^2/NDF : 1149.5/47

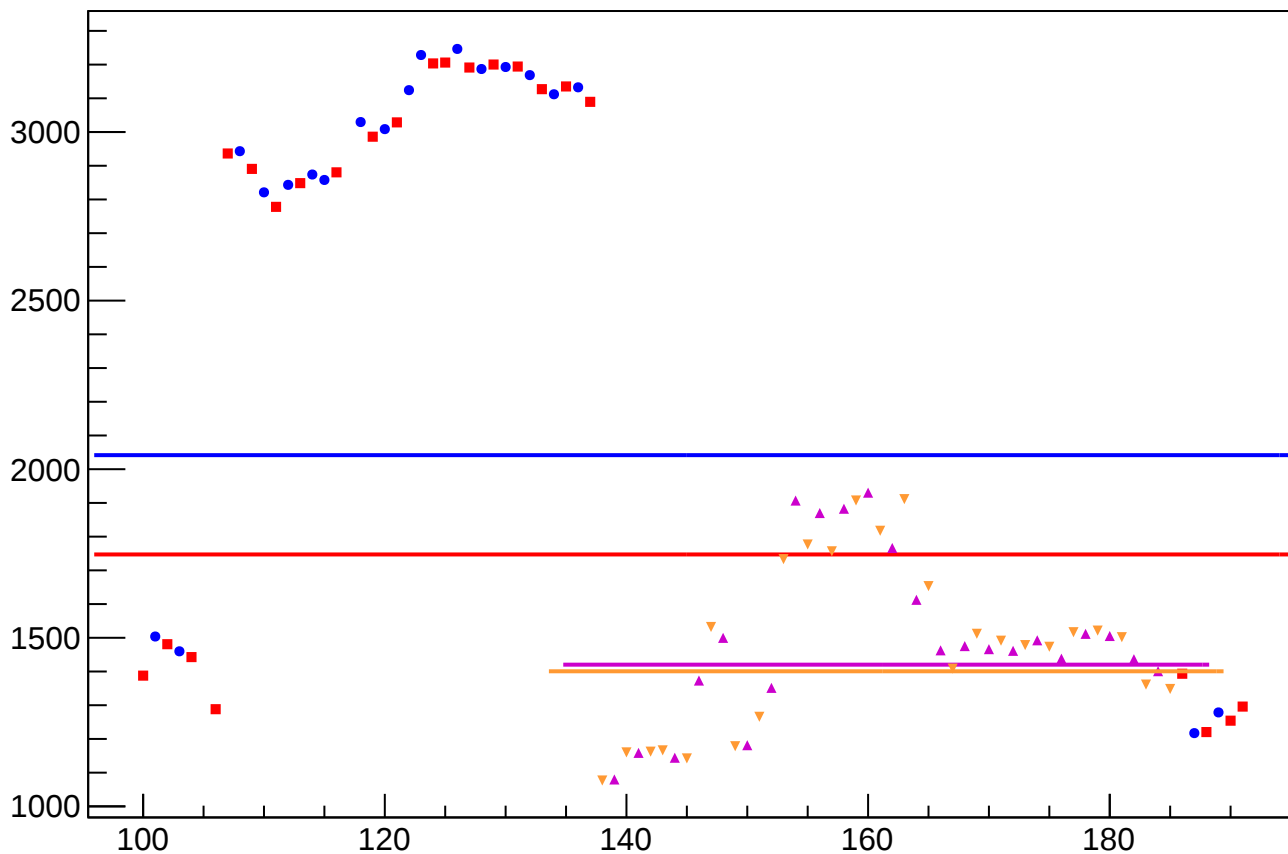
Right: -1.153 $\pm$ 0.499 χ^2/NDF : 1047.4/41

In: 3.490 $\pm$ 0.319 χ^2/NDF : 795.5/41

Out: -6.215 $\pm$ 0.294 χ^2/NDF : 902.0/47

All: -1.754 $\pm$ 0.216 χ^2/NDF : 2198.7/89

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2041.684 $\pm$ 0.574 χ^2 /NDF: 2056451.3/18

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

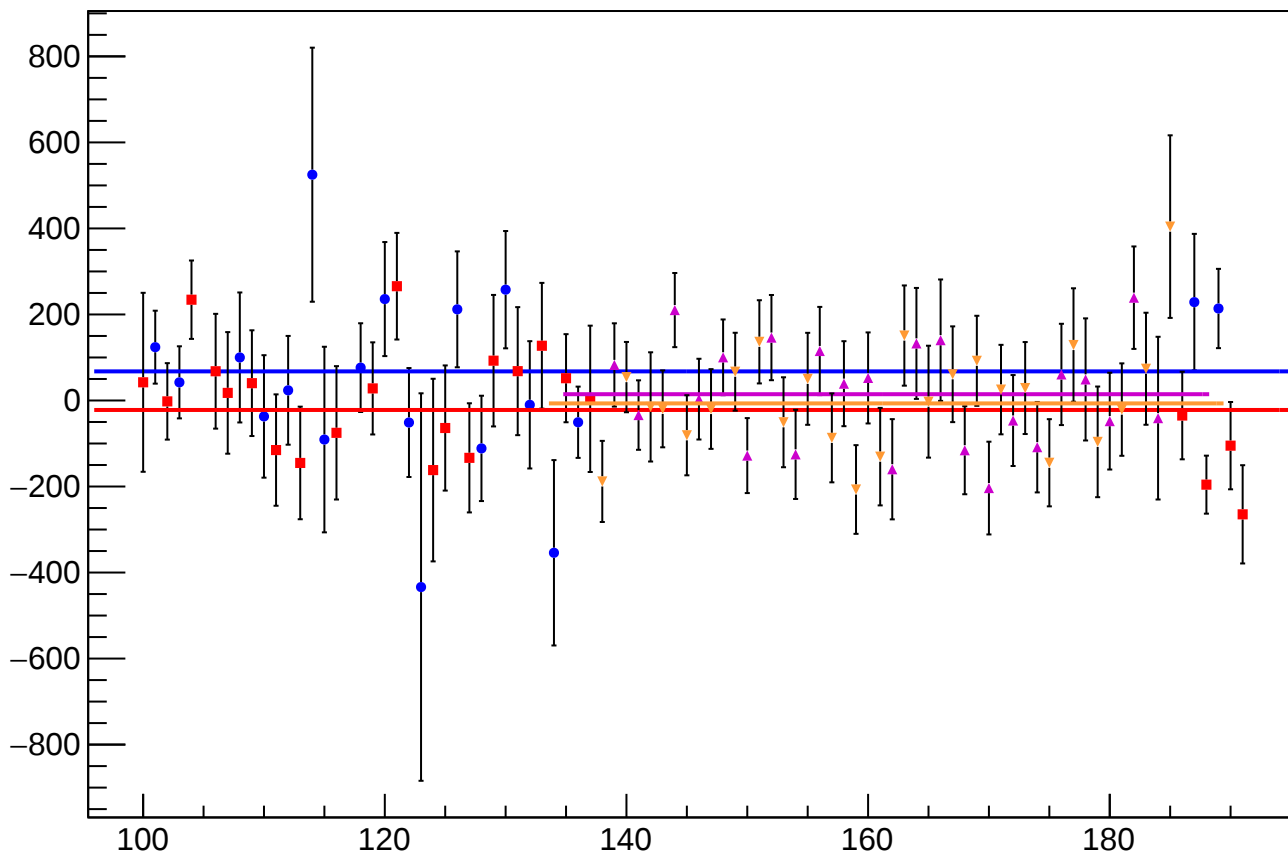
Right: 1858.545 $\pm$ 0.353 χ^2 /NDF: 4991999.3/41

In: 1516.061 $\pm$ 0.225 χ^2 /NDF: 3953301.2/41

Out: 1475.336 $\pm$ 0.208 χ^2 /NDF: 4279907.4/47

All: 1494.055 $\pm$ 0.153 χ^2 /NDF: 8250862.1/89

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 67.668 $\pm$ 28.464 χ^2 /NDF: 22.8/18

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

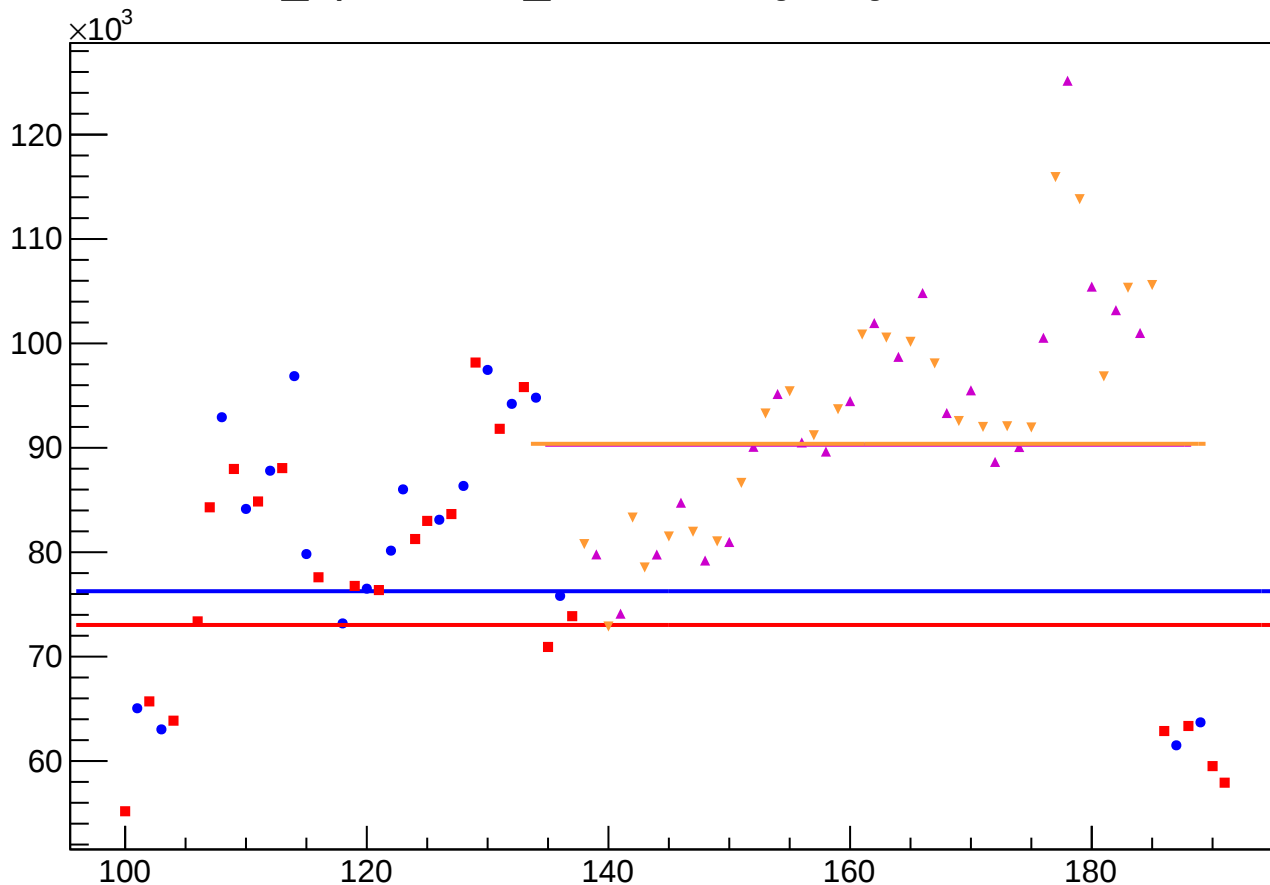
Right: 16.468 $\pm$ 18.650 χ^2 /NDF: 60.1/41

In: 34.279 $\pm$ 17.330 χ^2 /NDF:54.9/41

Out: -13.270 $\pm$ 16.089 χ^2 /NDF:56.5/47

All: 8.741 $\pm$ 11.791 χ^2 /NDF: 115.4/89

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 76265.893 $\pm$ 20.127 χ^2/NDF : 312661.4/18

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

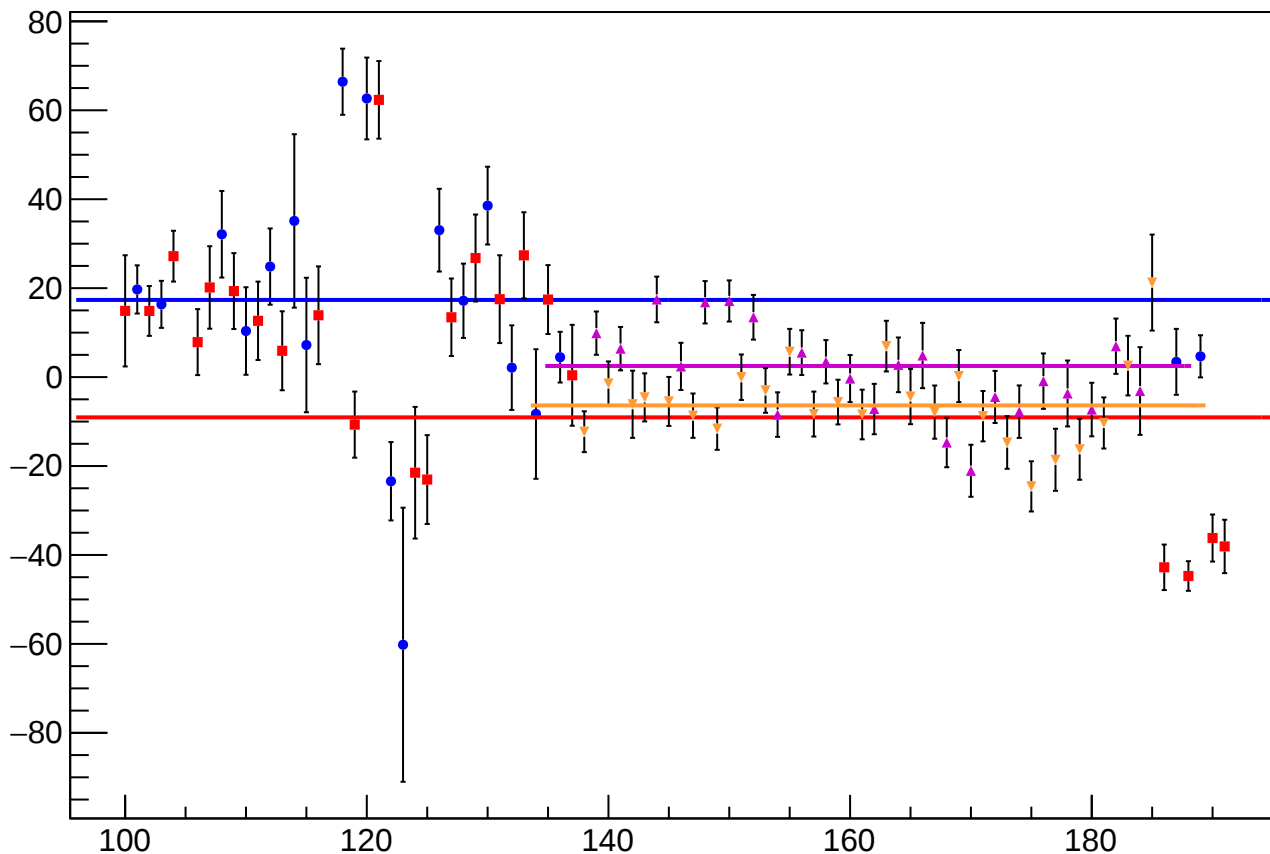
Right: 74420.493 $\pm$ 13.187 χ^2/NDF : 760326.2/41

In: 85093.532 $\pm$ 12.254 χ^2/NDF : 1079685.2/41

Out: 83014.492 $\pm$ 11.377 χ^2/NDF : 1463006.8/47

All: 83976.919 $\pm$ 8.338 χ^2/NDF : 2558151.2/8

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 17.354 ± 1.816 $\chi^2/\text{NDF}: 130.8/18$

Left Out: -6.370 ± 1.124 $\chi^2/\text{NDF}: 45.5/24$

Right Out: -9.055 ± 1.486 $\chi^2/\text{NDF}: 432.9/22$

Left In: 2.501 ± 1.156 $\chi^2/\text{NDF}: 78.4/22$

Left: -2.059 ± 0.806 $\chi^2/\text{NDF}: 154.1/47$

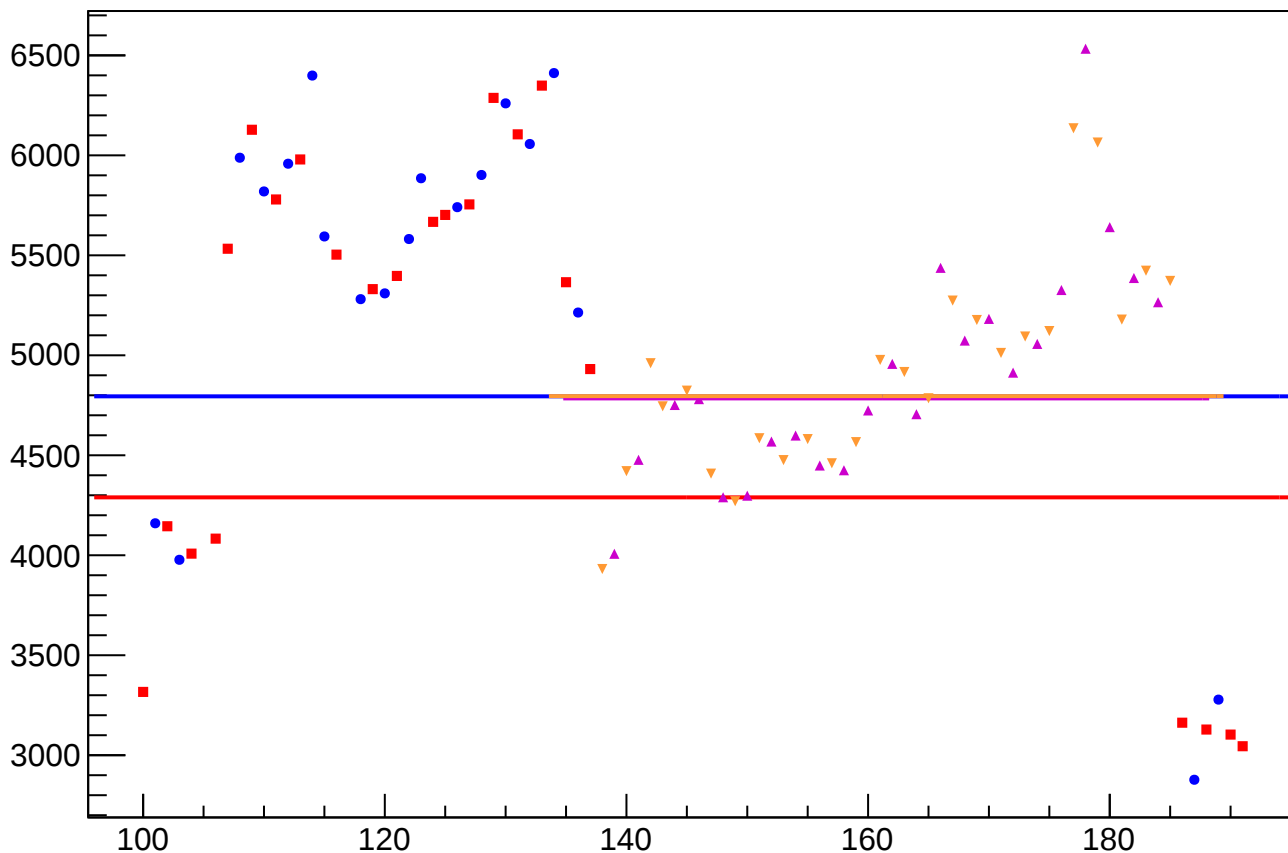
Right: 1.540 ± 1.150 $\chi^2/\text{NDF}: 690.5/41$

In: 6.785 ± 0.975 $\chi^2/\text{NDF}: 256.9/41$

Out: -7.347 ± 0.896 $\chi^2/\text{NDF}: 480.5/47$

All: -0.874 ± 0.660 $\chi^2/\text{NDF}: 851.2/89$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4794.768 $\pm$ 1.284 χ^2 /NDF: 737472.6/18

Left Out: 4795.847 $\pm$ 0.795 χ^2 /NDF: 361249.7/24

Right Out: 4289.513 $\pm$ 1.051 χ^2 /NDF: 1300928.1/22

Left In: 4784.434 $\pm$ 0.817 χ^2 /NDF: 357507.2/22

Left: 4790.301 $\pm$ 0.570 χ^2 /NDF: 718857.1/47

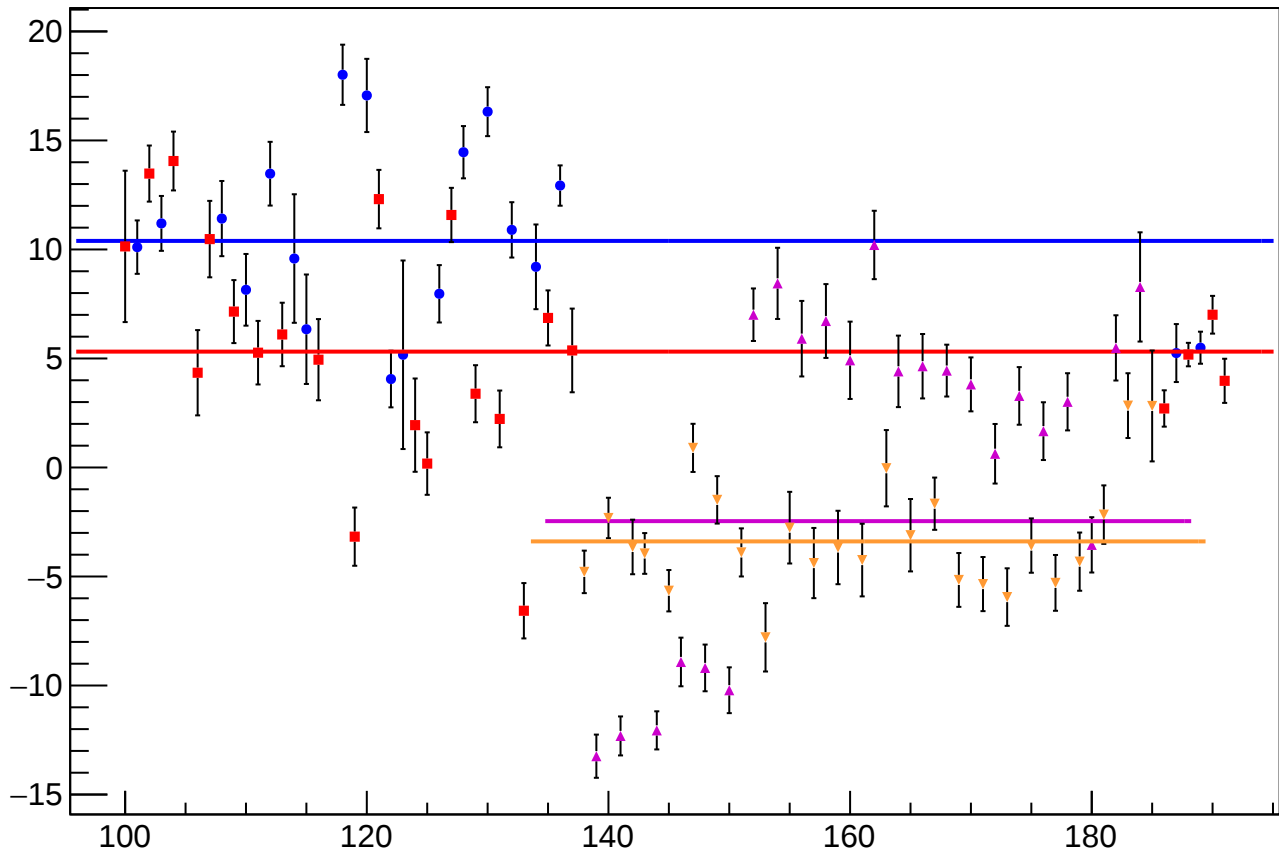
Right: 4492.222 $\pm$ 0.813 χ^2 /NDF: 2131147.7/41

In: 4787.415 $\pm$ 0.689 χ^2 /NDF: 1095025.8/41

Out: 4611.629 $\pm$ 0.634 χ^2 /NDF: 1809872.8/47

All: 4692.146 $\pm$ 0.467 χ^2 /NDF: 2940126.9/89

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 10.392 $\pm$ 0.304 χ^2/NDF : 191.6/18

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

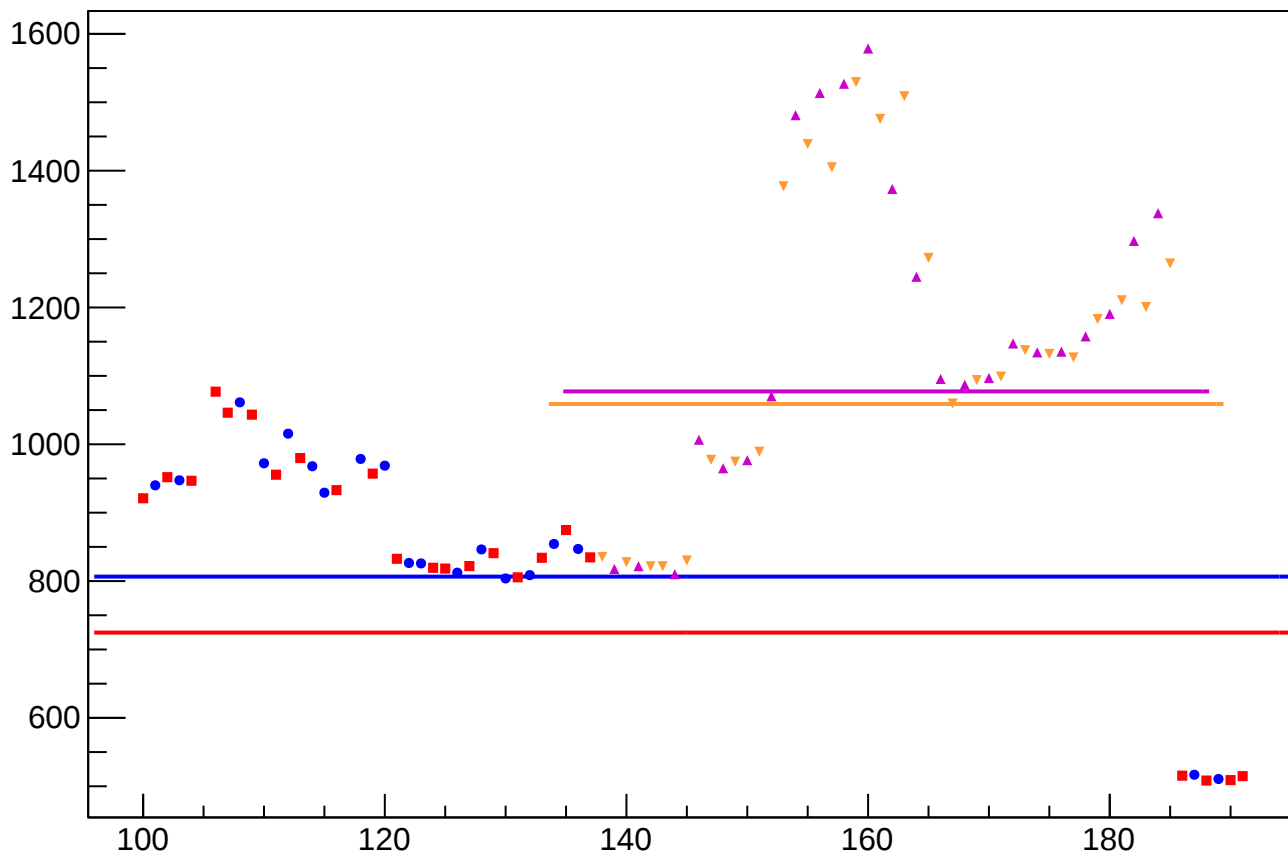
Right: 7.370 $\pm$ 0.194 χ^2/NDF : 673.3/41

In: 3.071 $\pm$ 0.200 χ^2/NDF : 2136.8/41

Out: 0.987 $\pm$ 0.178 χ^2/NDF : 992.2/47

All: 1.910 $\pm$ 0.133 χ^2/NDF : 3189.8/89

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 806.535 $\pm$ 0.215 χ^2 /NDF: 640953.3/18

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

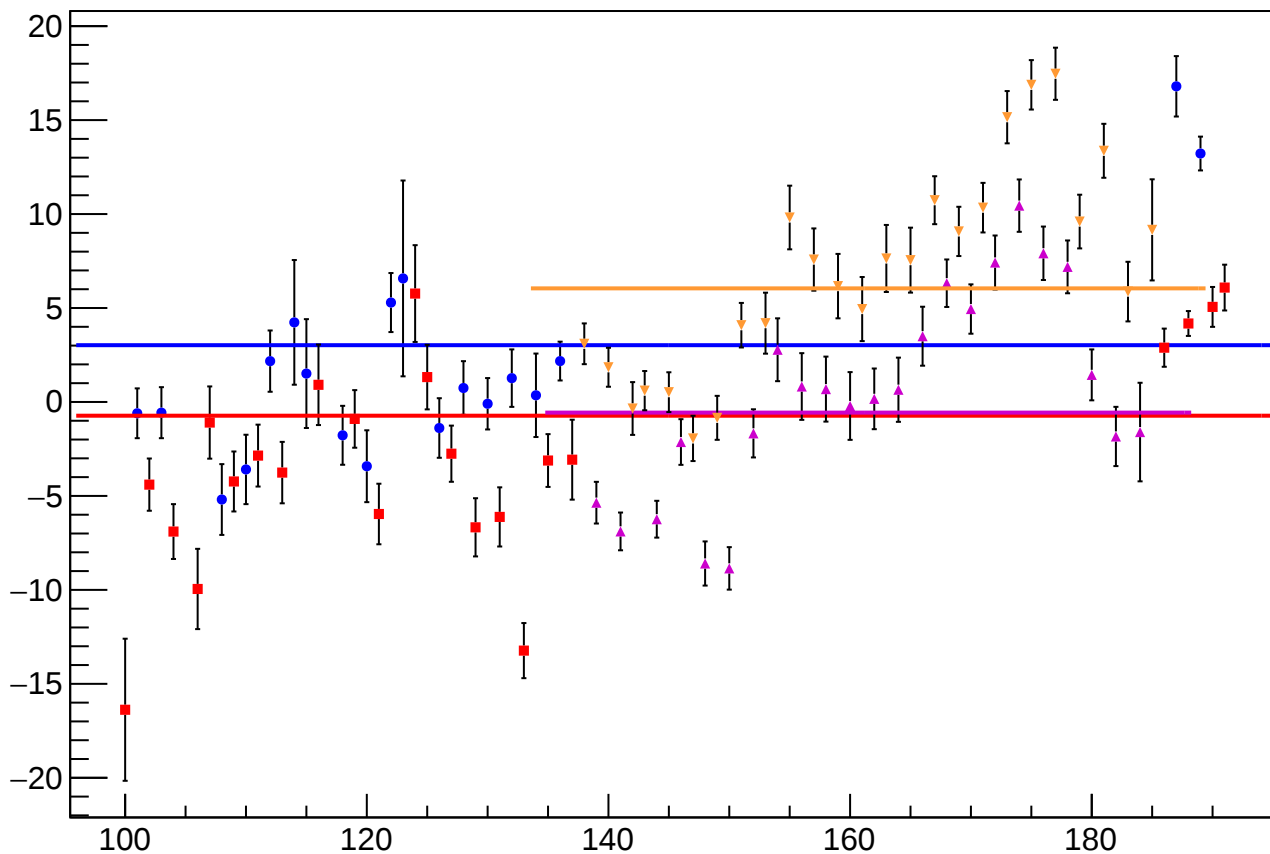
Right: 757.851 $\pm$ 0.137 χ^2 /NDF: 2046097.8/41

In: 960.762 $\pm$ 0.141 χ^2 /NDF: 2824117.1/41

Out: 890.896 $\pm$ 0.126 χ^2 /NDF: 4487456.6/47

All: 921.832 $\pm$ 0.094 χ^2 /NDF: 7448214.3/89

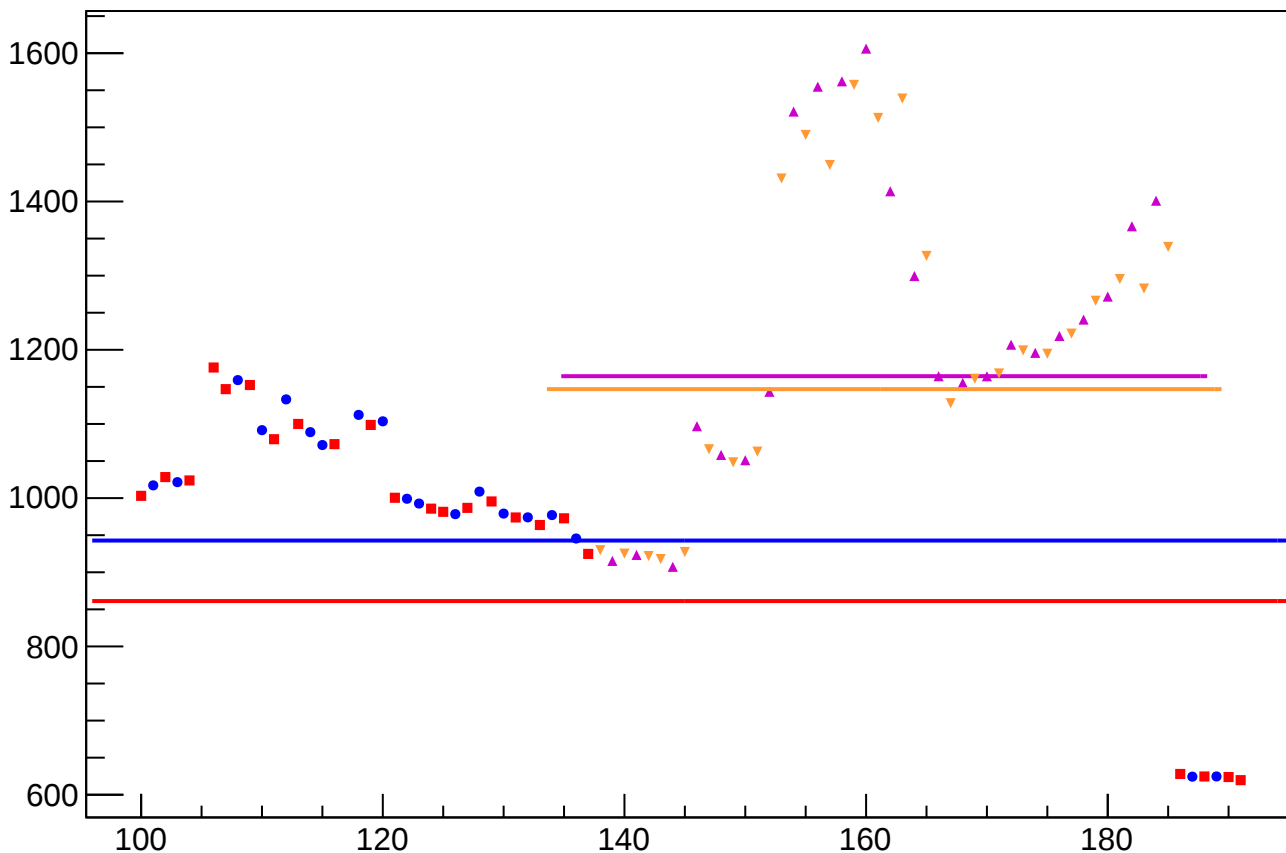
diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 3.022 $\pm$ 0.353 χ^2/NDF : 291.2/18
 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: 0.812 $\pm$ 0.227 χ^2/NDF : 680.9/41
 In: 0.843 $\pm$ 0.221 χ^2/NDF :770.8/41
 Out: 2.938 $\pm$ 0.200 χ^2/NDF :1039.4/47
 All: 1.997 $\pm$ 0.148 χ^2/NDF : 1859.5/89

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 942.788 ± 0.250 $\chi^2/\text{NDF}: 464447.5/18$

Left Out: 1146.960 ± 0.192 $\chi^2/\text{NDF}: 1045761.4/24$

Right Out: 861.213 ± 0.209 $\chi^2/\text{NDF}: 988990.4/22$

Left In: 1164.432 ± 0.201 $\chi^2/\text{NDF}: 944112.0/22$

Left: 1155.305 ± 0.139 $\chi^2/\text{NDF}: 1993824.0/47$

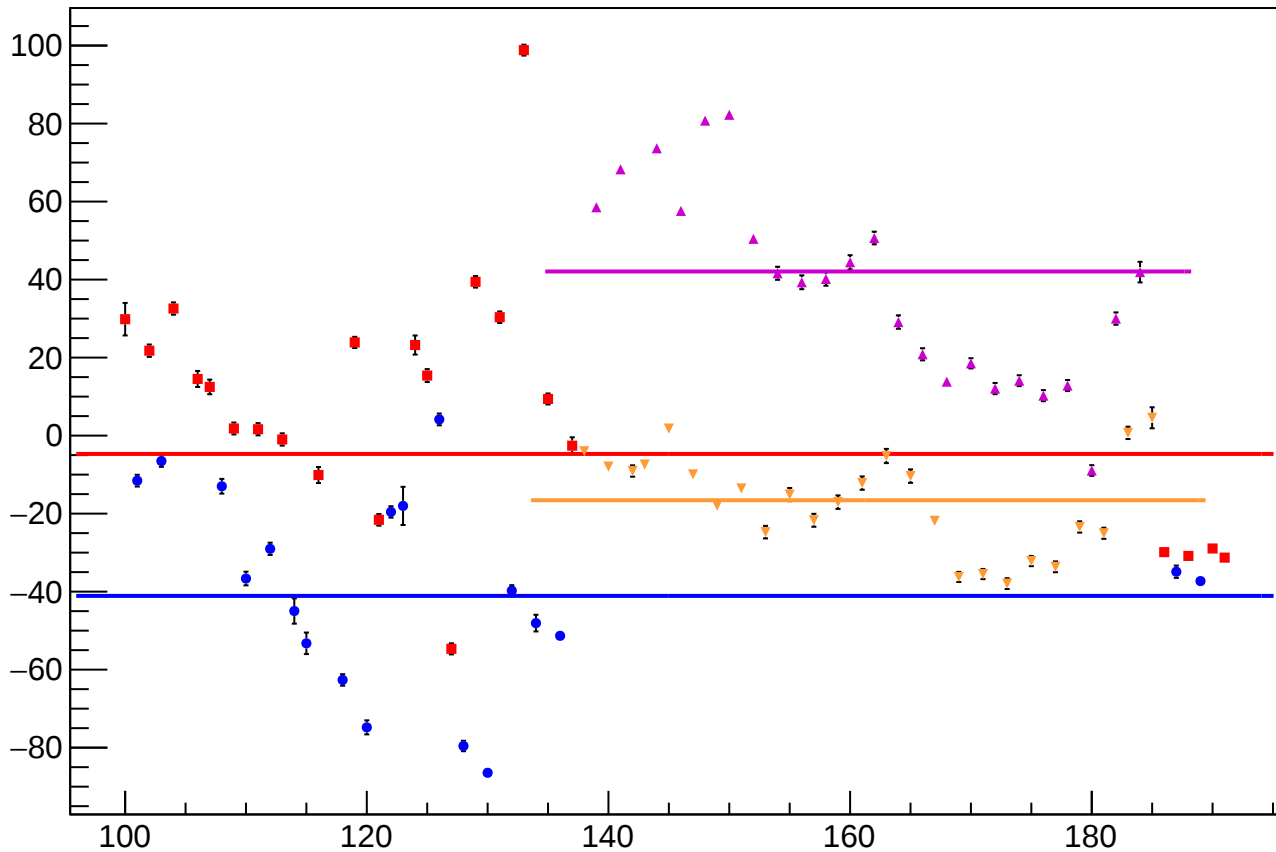
Right: 894.745 ± 0.160 $\chi^2/\text{NDF}: 1516224.9/41$

In: 1077.391 ± 0.157 $\chi^2/\text{NDF}: 1886527.2/41$

Out: 1015.917 ± 0.141 $\chi^2/\text{NDF}: 3049451.4/47$

All: 1043.522 ± 0.105 $\chi^2/\text{NDF}: 5020918.2/89$

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -41.090 ± 0.346 $\chi^2/\text{NDF}: 5140.2/18$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: -4.696 ± 0.287 $\chi^2/\text{NDF}: 13593.7/22$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

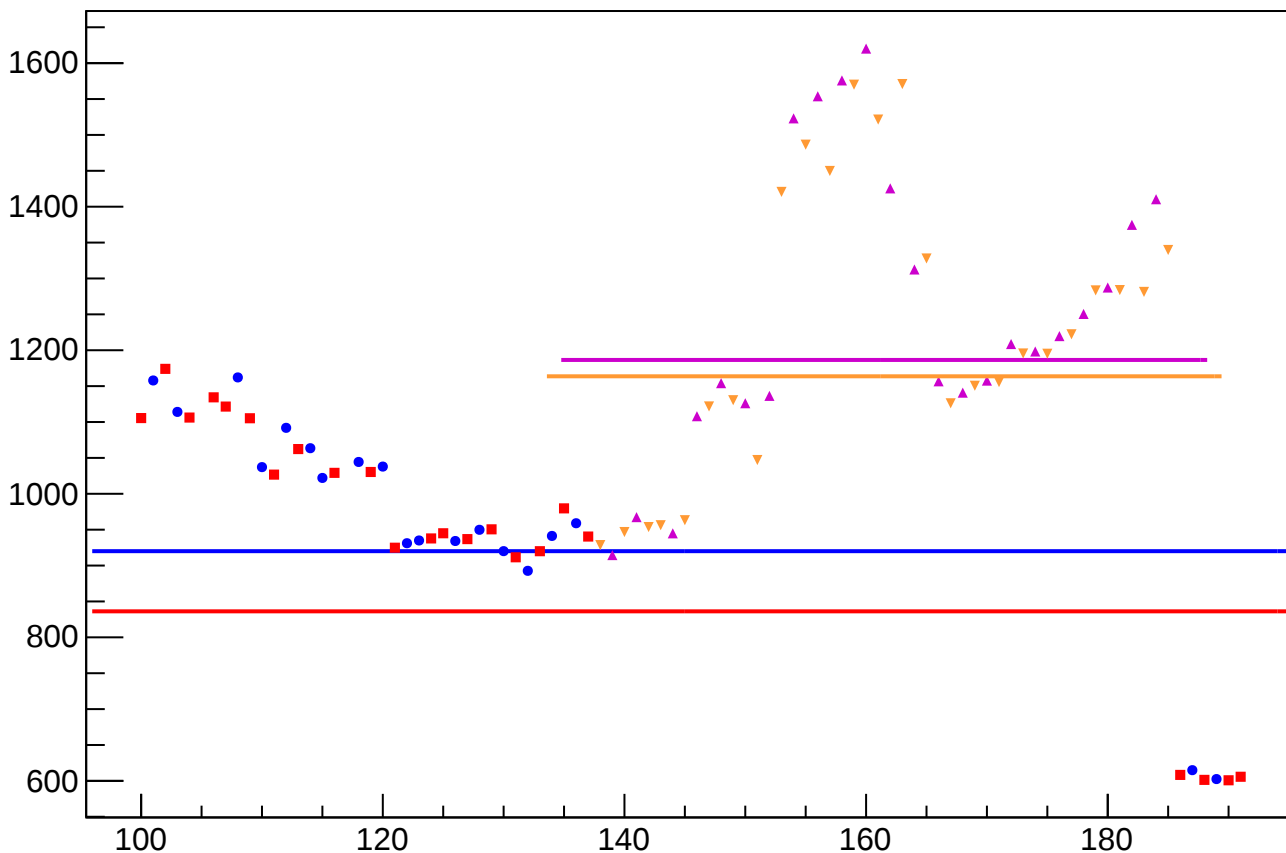
Right: -19.571 ± 0.221 $\chi^2/\text{NDF}: 25293.8/41$

In: 7.831 ± 0.222 $\chi^2/\text{NDF}: 47550.9/41$

Out: -10.885 ± 0.199 $\chi^2/\text{NDF}: 16415.2/47$

All: -2.546 ± 0.148 $\chi^2/\text{NDF}: 67917.0/89$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 920.047 $\pm$ 0.244 χ^2/NDF : 526724.1/18

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

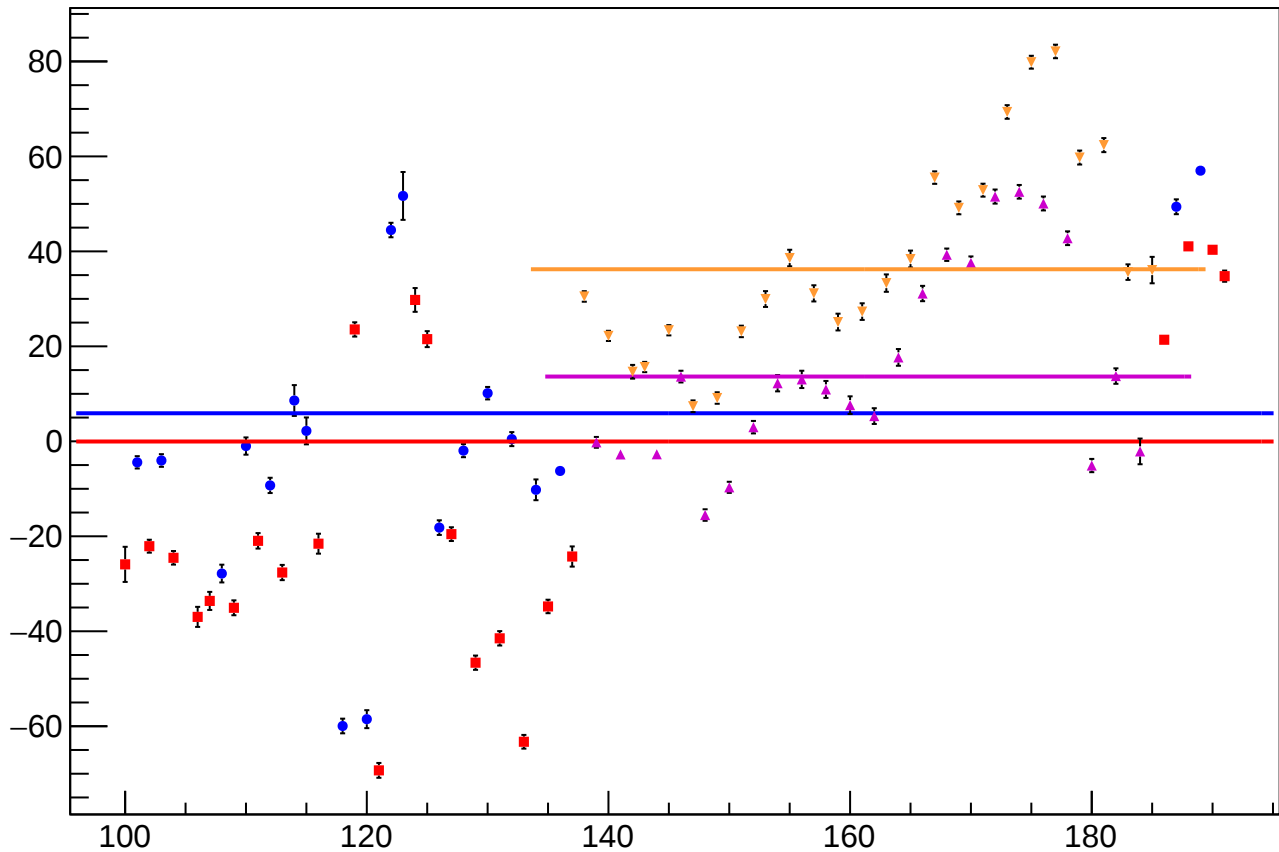
Right: 870.479 $\pm$ 0.156 χ^2/NDF : 1667656.2/41

In: 1076.770 $\pm$ 0.157 χ^2/NDF : 2059614.1/41

Out: 1006.945 $\pm$ 0.141 χ^2/NDF : 3362334.2/47

All: 1038.054 $\pm$ 0.105 χ^2/NDF : 5531928.8/89

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 5.908 ± 0.346 χ^2/NDF : 8973.7/18

Left Out: 36.234 ± 0.280 χ^2/NDF : 5794.2/24

Right Out: -0.039 ± 0.288 χ^2/NDF : 16416.6/22

Left In: 13.640 ± 0.293 χ^2/NDF : 5178.0/22

Left: 25.447 ± 0.202 χ^2/NDF : 14084.0/47

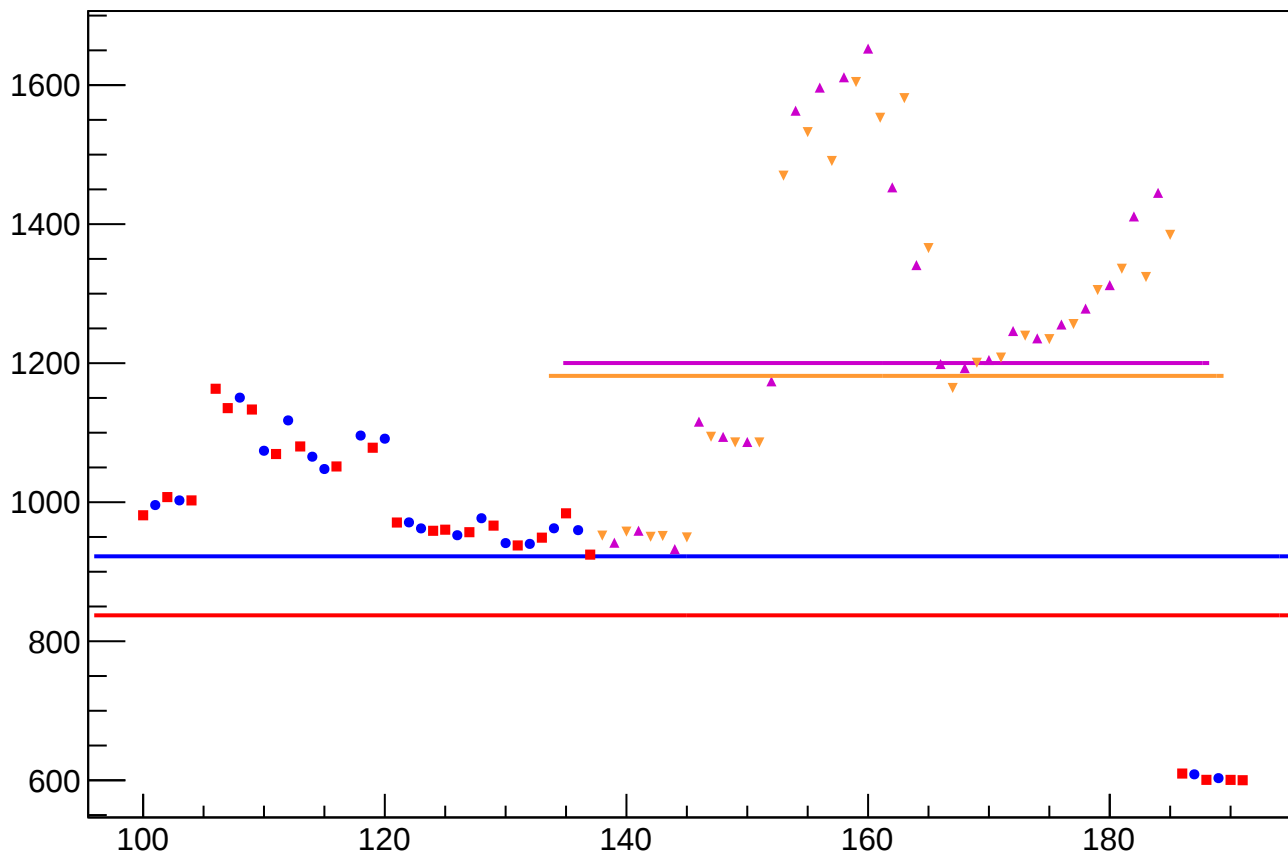
Right: 2.391 ± 0.221 χ^2/NDF : 25565.1/41

In: 10.413 ± 0.223 χ^2/NDF : 14442.7/41

Out: 18.589 ± 0.201 χ^2/NDF : 30382.3/47

All: 14.942 ± 0.149 χ^2/NDF : 45566.3/89

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 922.176 +/- 0.245 χ^2/NDF : 496729.7/18

Left Out: 1181.732 +/- 0.198 χ^2/NDF : 1043520.8/24

Right Out: 837.282 +/- 0.203 χ^2/NDF : 1063124.1/22

Left In: 1200.198 +/- 0.207 χ^2/NDF : 938224.7/22

Left: 1190.549 +/- 0.143 χ^2/NDF : 1985902.3/47

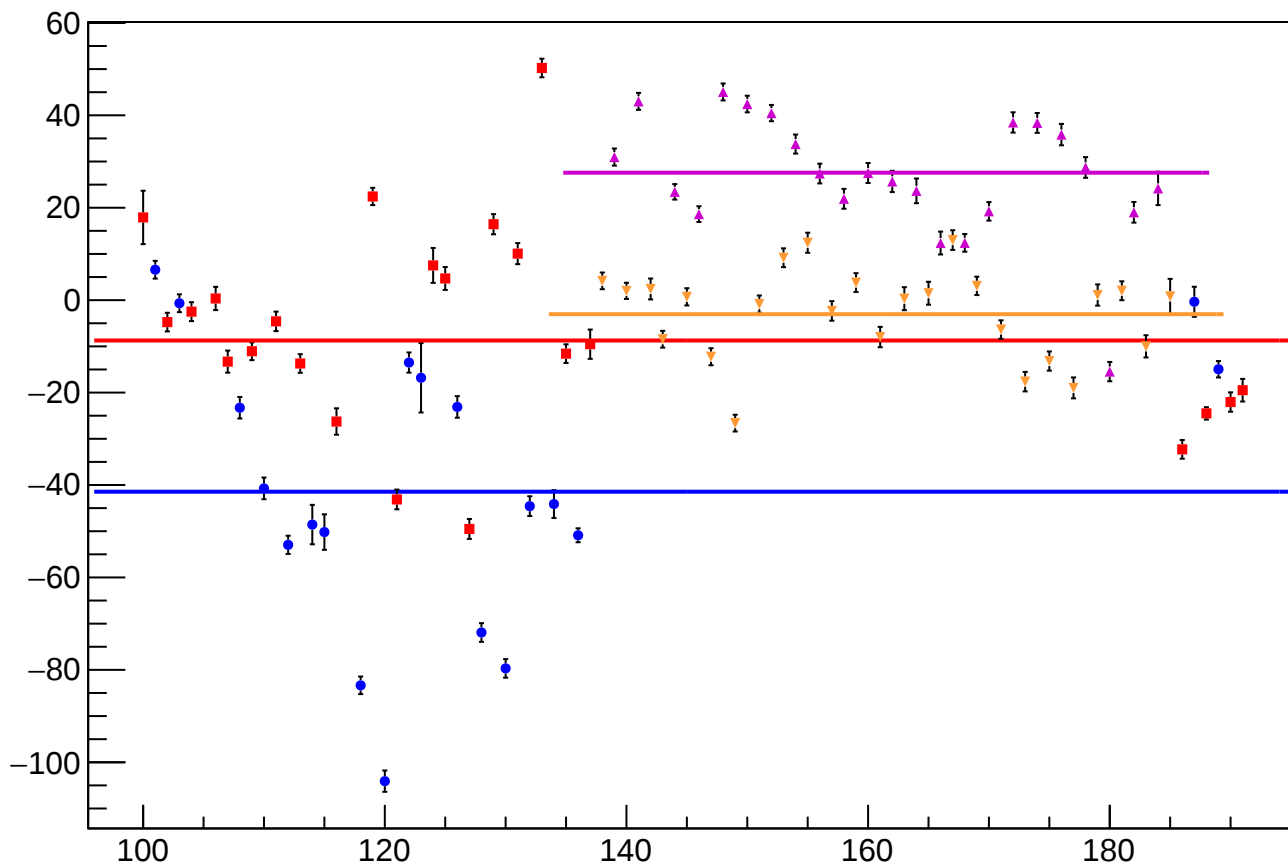
Right: 871.968 +/- 0.156 χ^2/NDF : 1631078.1/41

In: 1084.168 +/- 0.158 χ^2/NDF : 2187543.8/41

Out: 1014.168 +/- 0.142 χ^2/NDF : 3580362.5/47

All: 1045.393 +/- 0.106 χ^2/NDF : 5876585.3/89

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -41.449 ± 0.511 χ^2/NDF : 3650.2/18

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

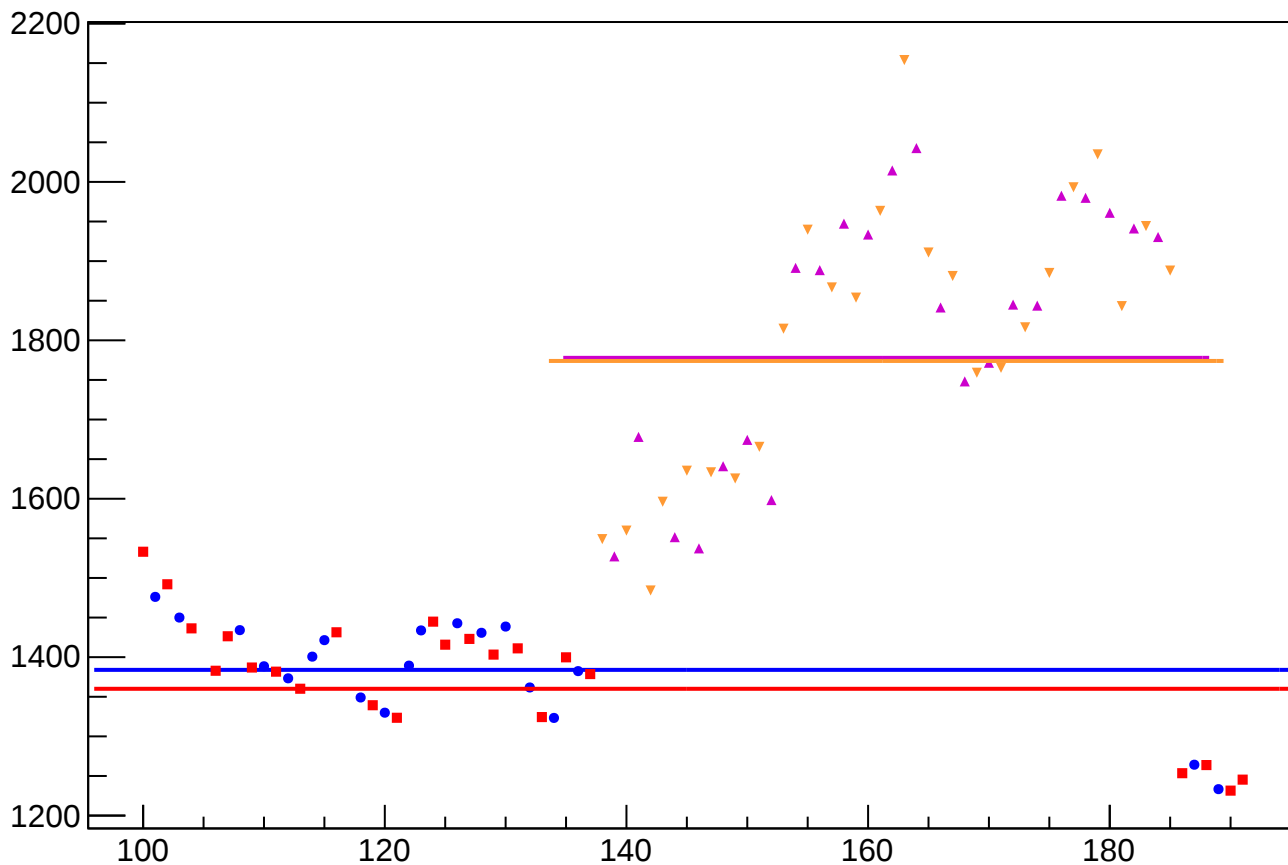
Right: -23.159 ± 0.339 χ^2/NDF : 8383.2/41

In: -0.975 ± 0.329 χ^2/NDF : 15320.9/41

Out: -5.629 ± 0.306 χ^2/NDF : 3079.8/47

All: -3.465 ± 0.224 χ^2/NDF : 18508.1/89

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1383.961+/-0.361 χ^2/NDF : 31983.5/18

Left Out: 1773.965+/-0.294 χ^2/NDF : 313031.1/24

Right Out: 1360.069+/-0.321 χ^2/NDF : 52331.5/22

Left In: 1777.884+/-0.303 χ^2/NDF : 299514.0/22

Left: 1775.860+/-0.211 χ^2/NDF : 612631.3/47

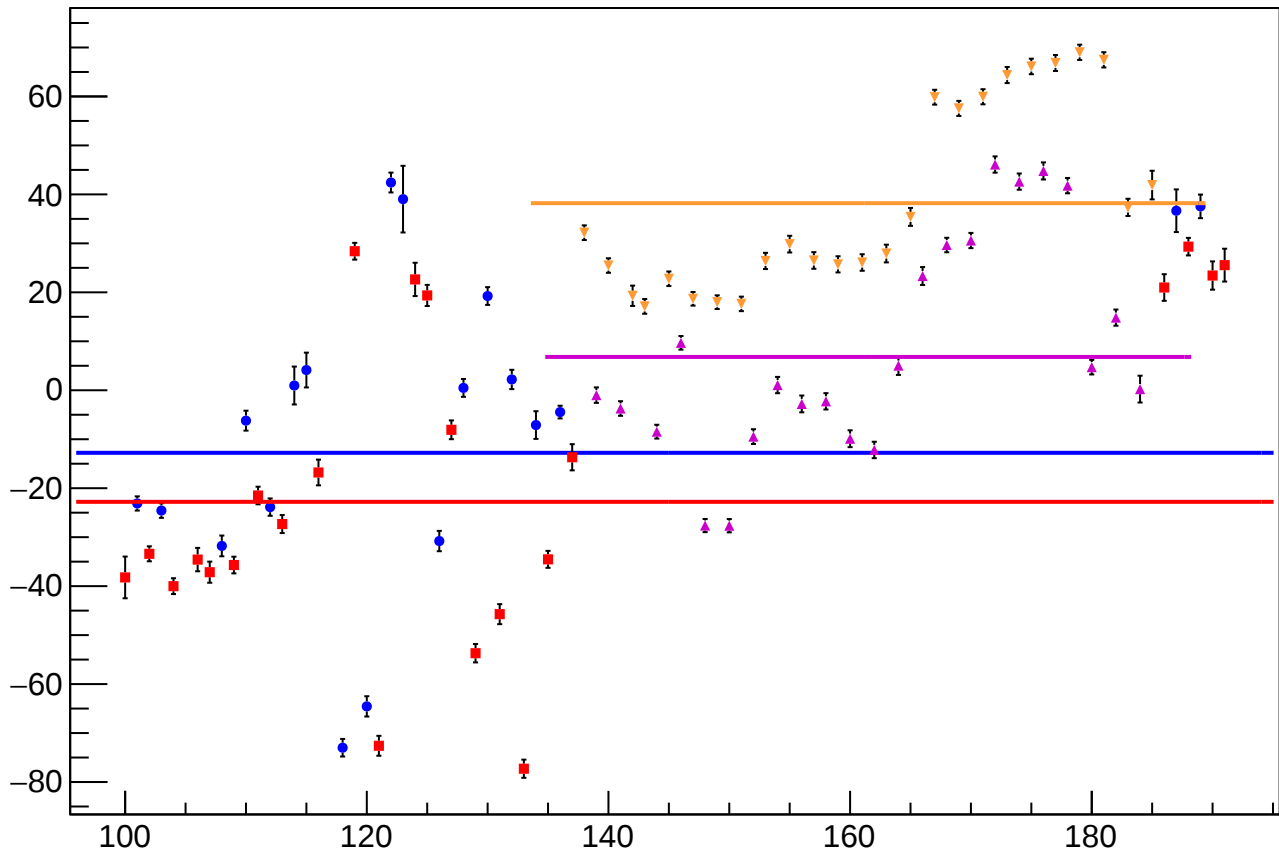
Right: 1370.607+/-0.240 χ^2/NDF : 86761.1/41

In: 1614.920+/-0.232 χ^2/NDF : 1029034.8/41

Out: 1585.381+/-0.217 χ^2/NDF : 1271416.3/47

All: 1599.116+/-0.158 χ^2/NDF : 2309102.8/89

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -12.772 ± 0.461 χ^2/NDF : 3939.6/18

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

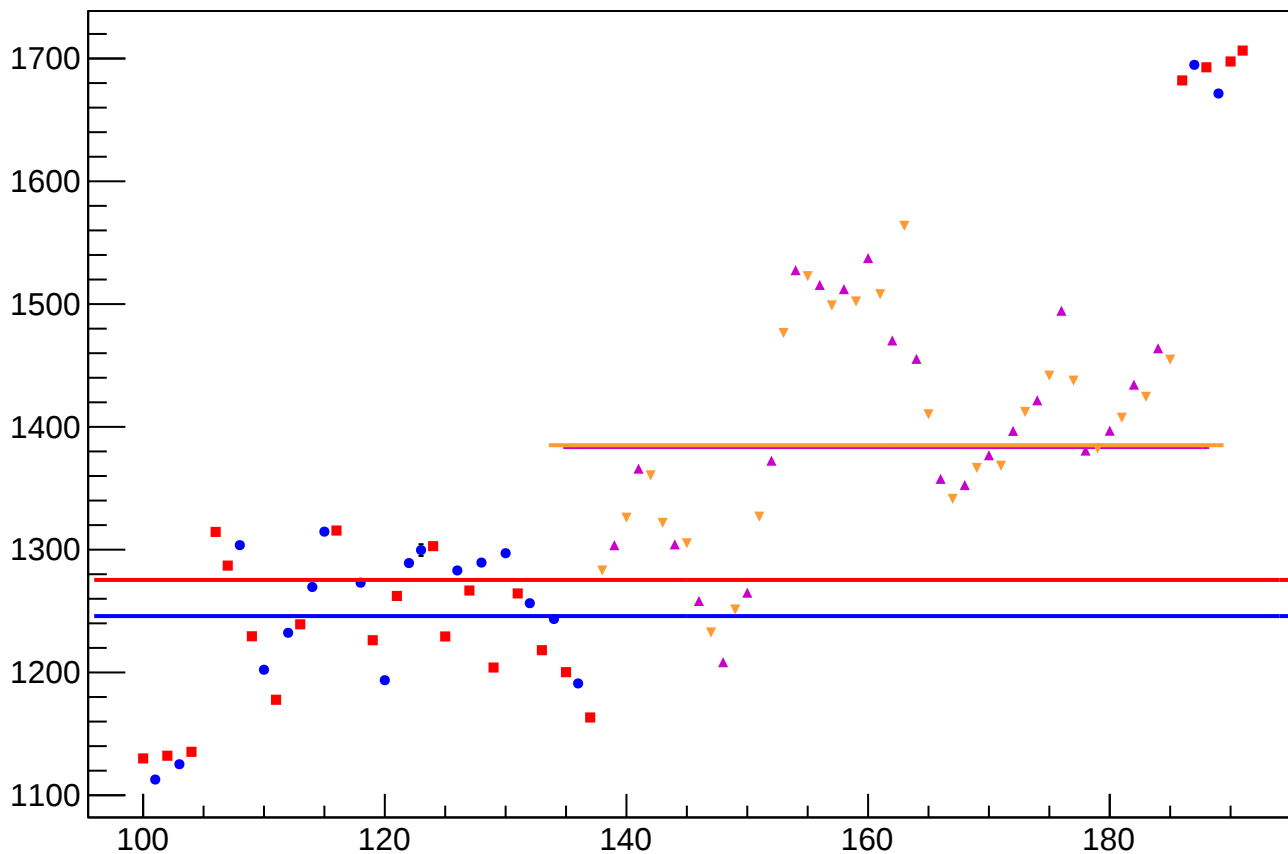
Right: -18.147 ± 0.314 χ^2/NDF : 9502.8/41

In: 0.103 ± 0.270 χ^2/NDF : 9618.2/41

Out: 16.077 ± 0.258 χ^2/NDF : 21731.3/47

All: 8.450 ± 0.187 χ^2/NDF : 33178.0/89

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1245.916 $\pm$ 0.326 χ^2/NDF : 126696.0/18

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

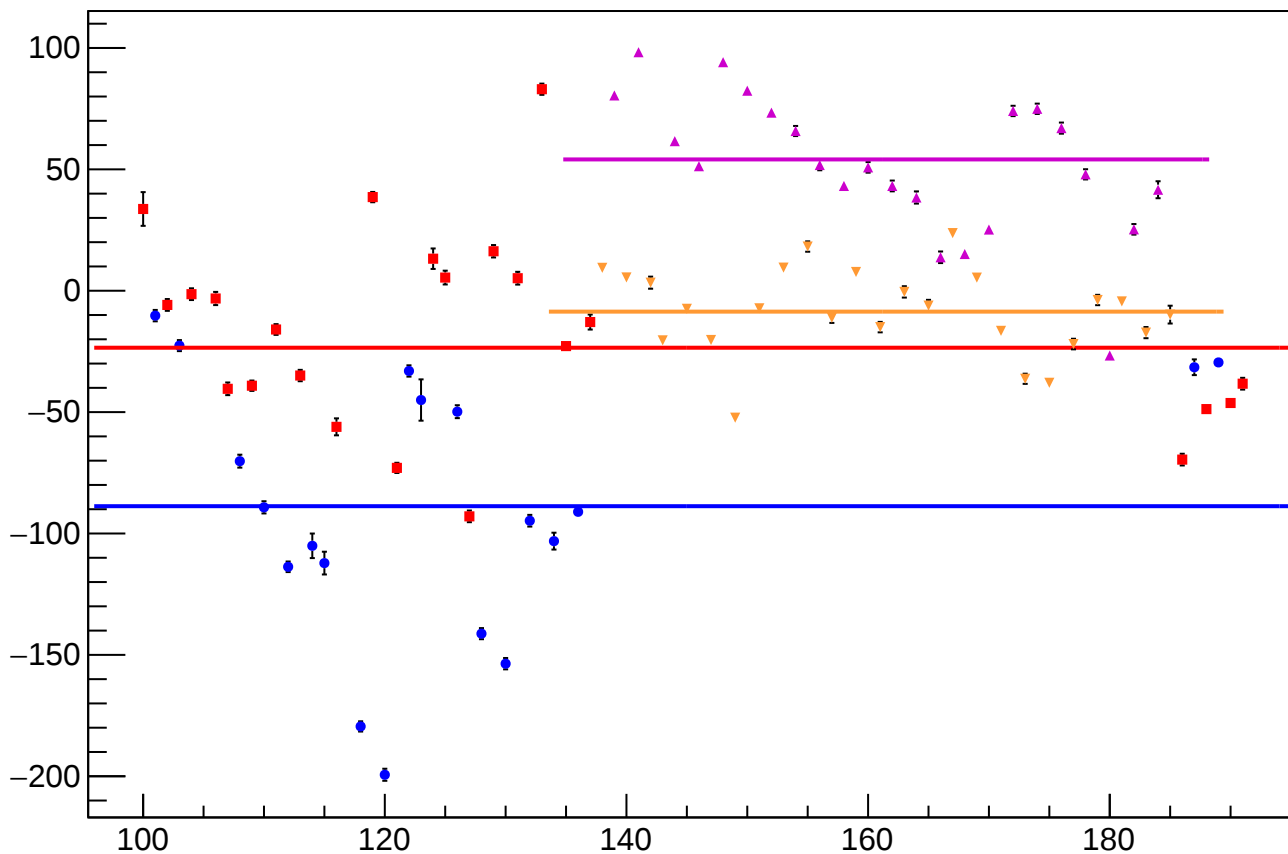
Right: 1261.726 $\pm$ 0.222 χ^2/NDF : 419139.3/41

In: 1336.424 $\pm$ 0.191 χ^2/NDF : 398413.3/41

Out: 1345.258 $\pm$ 0.183 χ^2/NDF : 517589.5/47

All: 1341.040 $\pm$ 0.132 χ^2/NDF : 917121.4/89

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -88.752 $\pm$ 0.561 χ^2 /NDF: 9571.0/18

Left Out: -8.606 $\pm$ 0.410 χ^2 /NDF:1930.5/24

Right Out: -23.471 $\pm$ 0.495 χ^2 /NDF: 6262.6/22

Left In: 54.089 $\pm$ 0.426 χ^2 /NDF:4721.6/22

Left: 21.586 $\pm$ 0.295 χ^2 /NDF: 17900.0/47

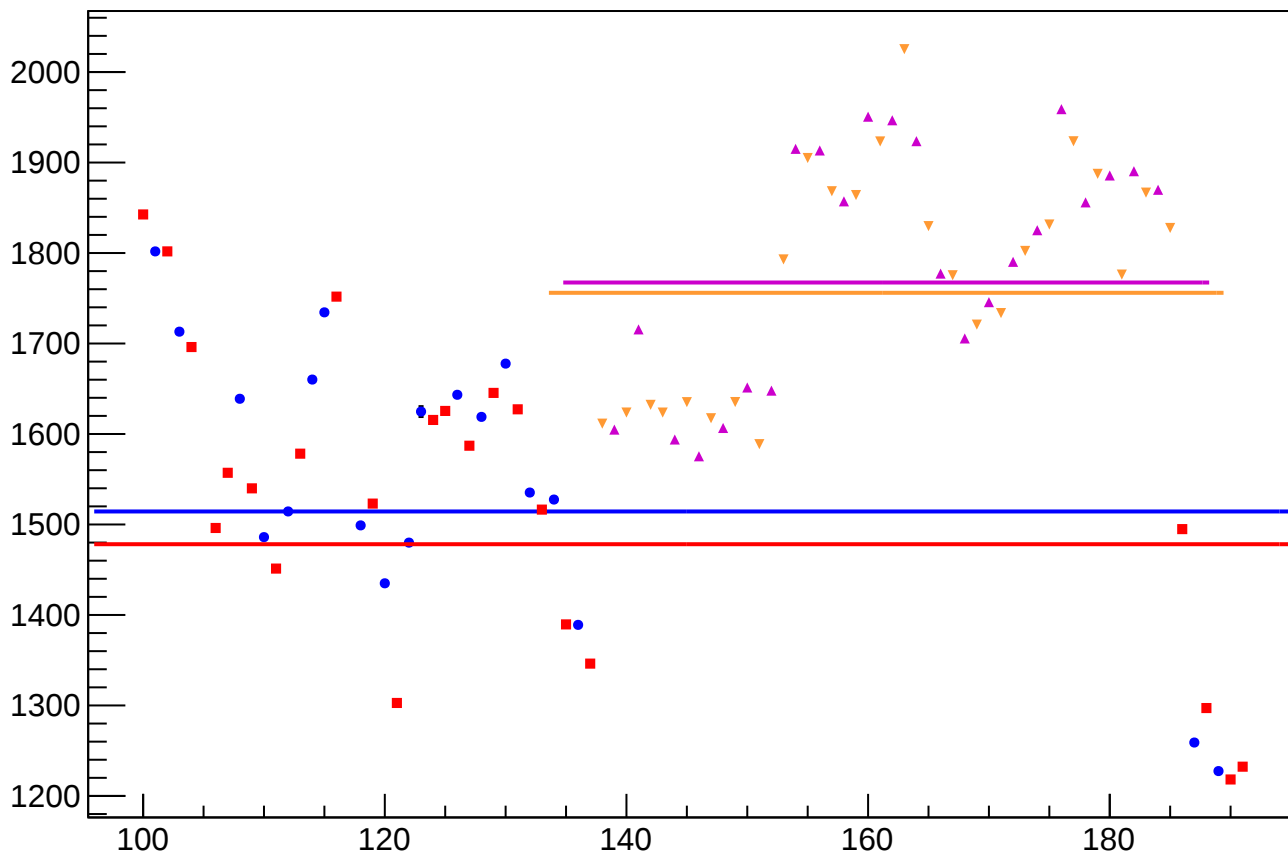
Right: -52.053 $\pm$ 0.372 χ^2 /NDF: 23433.8/41

In: 1.956 $\pm$ 0.339 χ^2 /NDF:55396.5/41

Out: -14.651 $\pm$ 0.316 χ^2 /NDF:8727.2/47

All: -6.935 $\pm$ 0.231 χ^2 /NDF: 65407.1/89

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1514.383 $\pm$ 0.397 χ^2/NDF : 156387.2/18

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

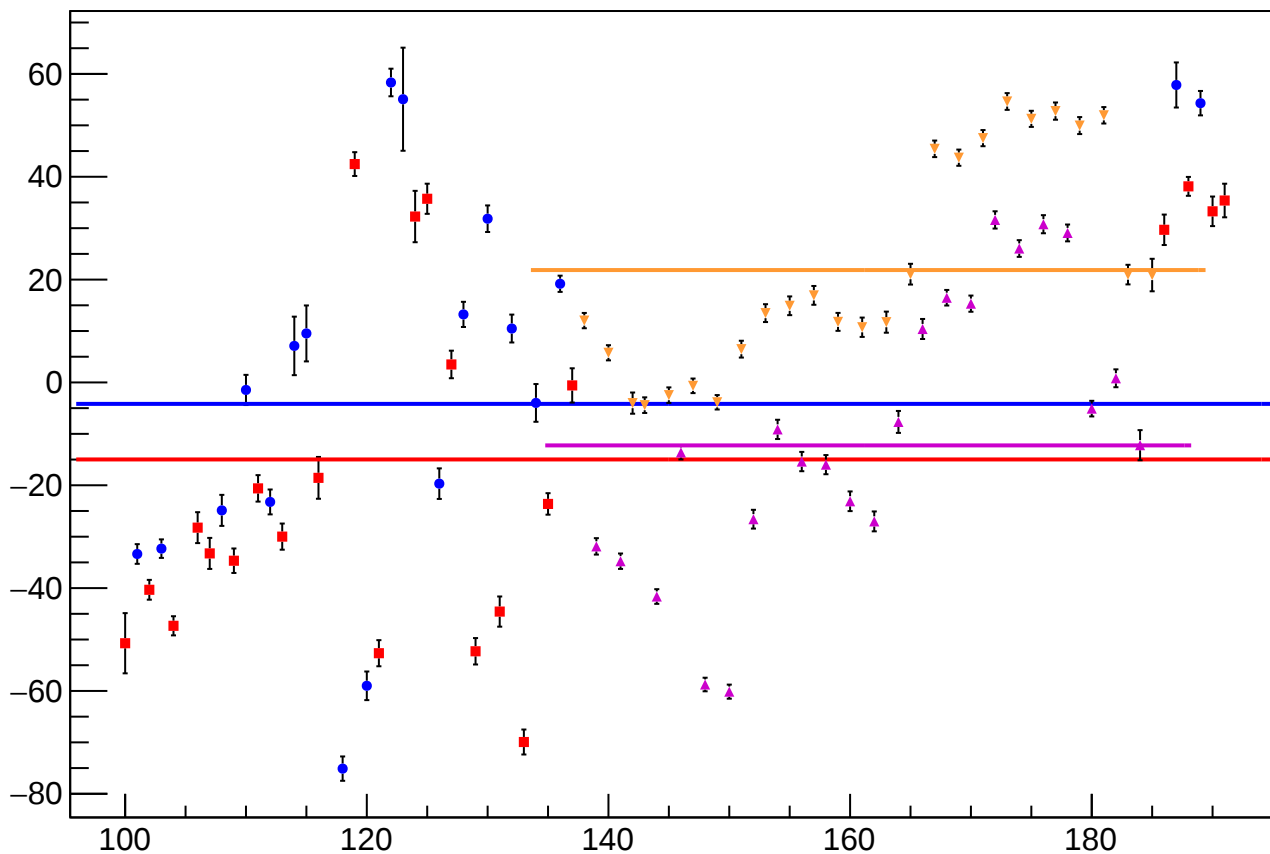
Right: 1494.039 $\pm$ 0.263 χ^2/NDF : 374232.4/41

In: 1675.063 $\pm$ 0.240 χ^2/NDF : 602299.0/41

Out: 1643.040 $\pm$ 0.223 χ^2/NDF : 762055.9/47

All: 1657.918 $\pm$ 0.163 χ^2/NDF : 1373899.0/89

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -4.171±/0.601 χ^2/NDF : 3788.3/18

Left Out: 21.856±/0.335 χ^2/NDF :4110.5/24

Right Out: -14.978±/0.545 χ^2/NDF : 4393.2/22

Left In: -12.246±/0.347 χ^2/NDF :6781.6/22

Left: 5.391±/0.241 χ^2/NDF : 15885.7/47

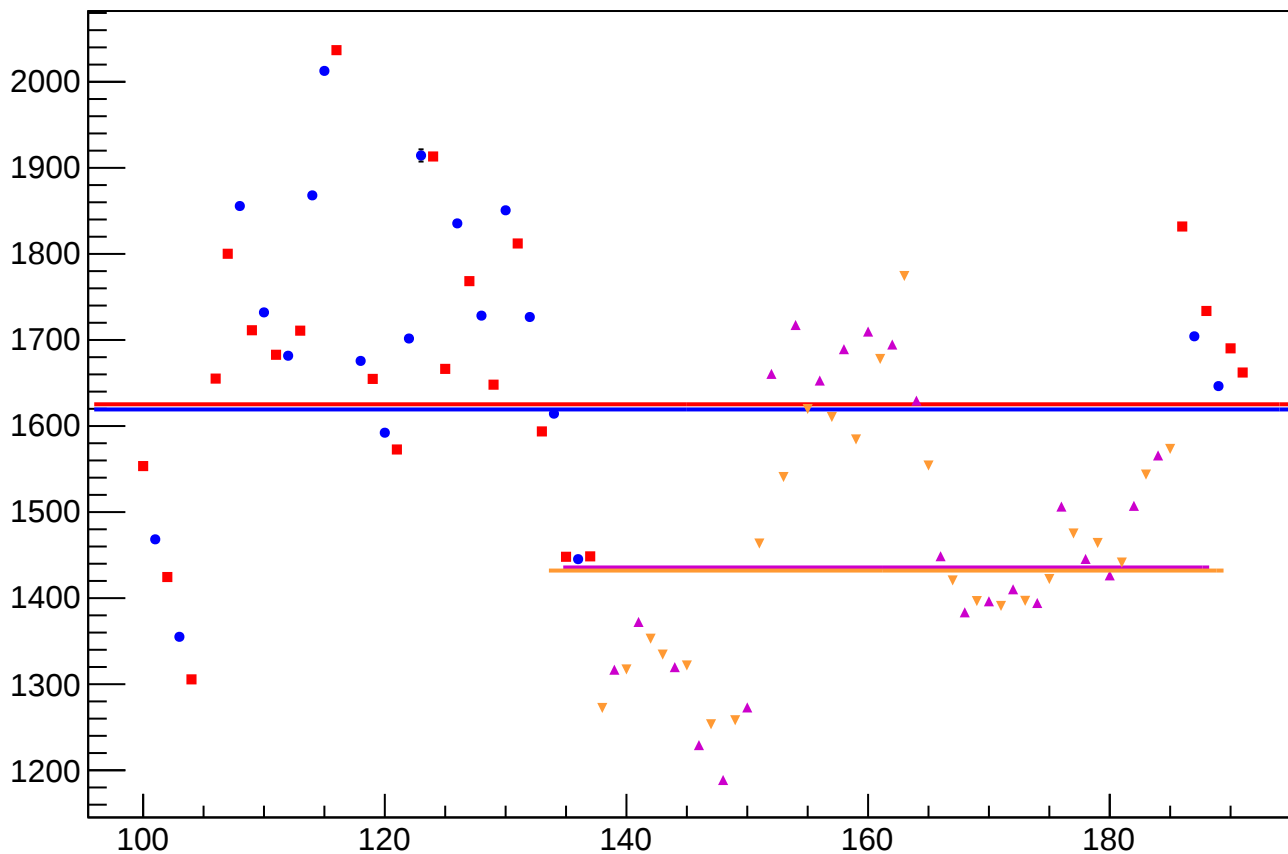
Right: -10.101±/0.404 χ^2/NDF : 8359.1/41

In: -10.226±/0.301 χ^2/NDF :10705.3/41

Out: 11.736±/0.286 χ^2/NDF :11818.8/47

All: 1.315±/0.207 χ^2/NDF : 25330.6/89

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1619.263 ± 0.425 $\chi^2/\text{NDF}: 150270.4/18$

Left Out: 1432.060 ± 0.237 $\chi^2/\text{NDF}: 297360.3/24$

Right Out: 1625.265 ± 0.385 $\chi^2/\text{NDF}: 174790.4/22$

Left In: 1435.645 ± 0.245 $\chi^2/\text{NDF}: 420835.0/22$

Left: 1433.791 ± 0.171 $\chi^2/\text{NDF}: 718305.7/47$

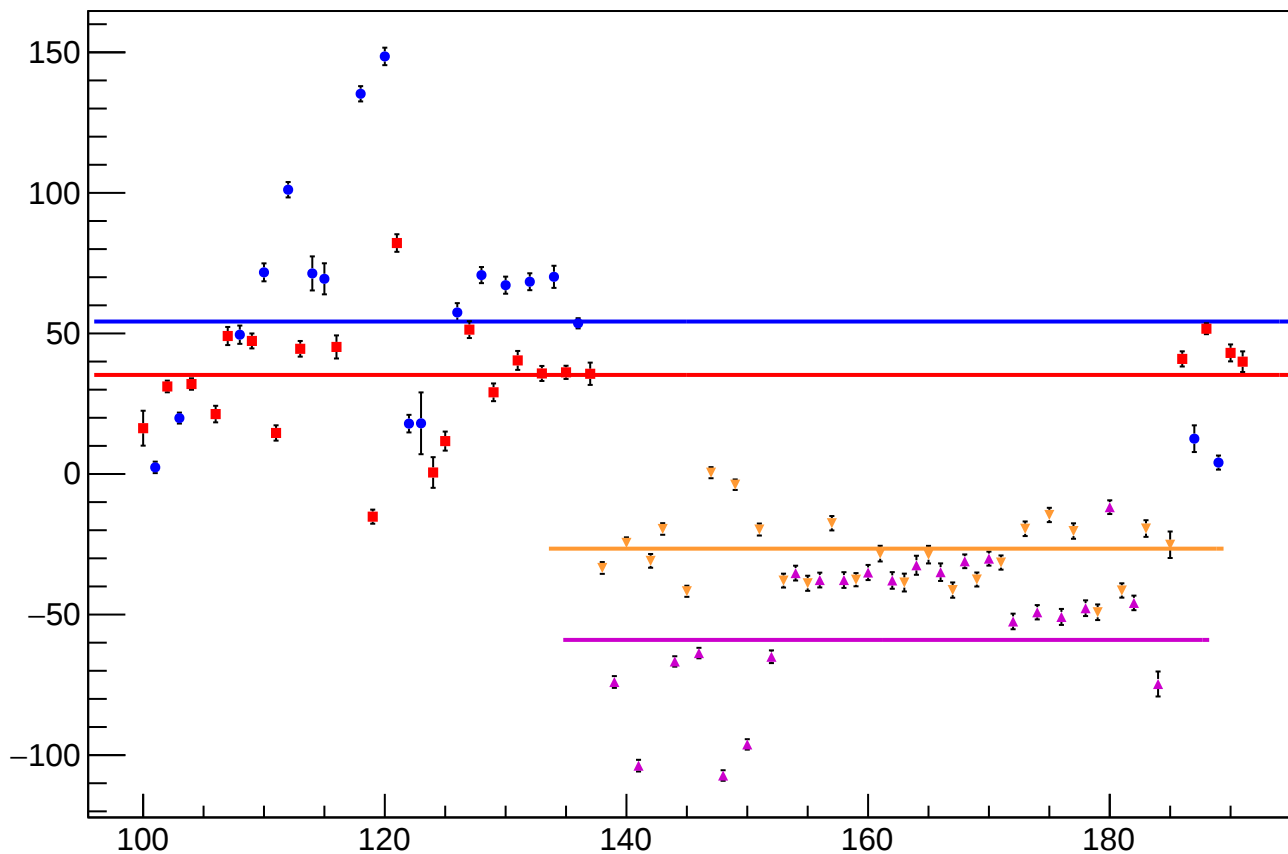
Right: 1622.557 ± 0.285 $\chi^2/\text{NDF}: 325170.4/41$

In: 1481.581 ± 0.213 $\chi^2/\text{NDF}: 711163.4/41$

Out: 1485.141 ± 0.202 $\chi^2/\text{NDF}: 654569.6/47$

All: 1483.452 ± 0.146 $\chi^2/\text{NDF}: 1365880.4/89$

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 54.239 $\pm$ 0.668 χ^2/NDF : 3817.5/18

Left Out: -26.554 $\pm$ 0.488 χ^2/NDF : 717.5/24

Right Out: 35.242 $\pm$ 0.594 χ^2/NDF : 990.4/22

Left In: -59.014 $\pm$ 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 $\pm$ 0.351 χ^2/NDF : 5632.2/47

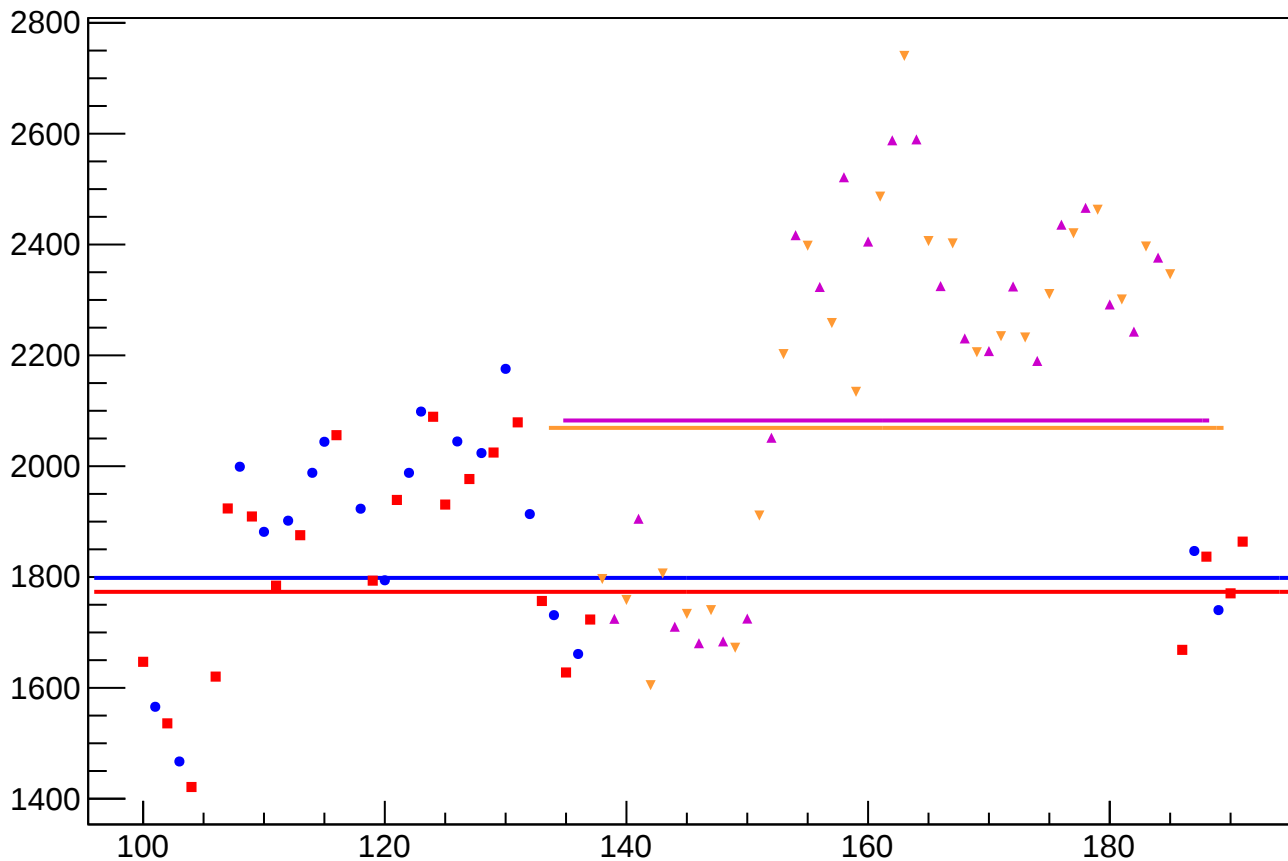
Right: 43.637 $\pm$ 0.444 χ^2/NDF : 5259.3/41

In: -17.675 $\pm$ 0.404 χ^2/NDF : 24856.1/41

Out: -1.678 $\pm$ 0.377 χ^2/NDF : 8166.6/47

All: -9.135 $\pm$ 0.276 χ^2/NDF : 33861.7/89

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1798.447 ± 0.472 $\chi^2/\text{NDF}: 184886.6/18$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1773.292 ± 0.420 $\chi^2/\text{NDF}: 184246.3/22$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

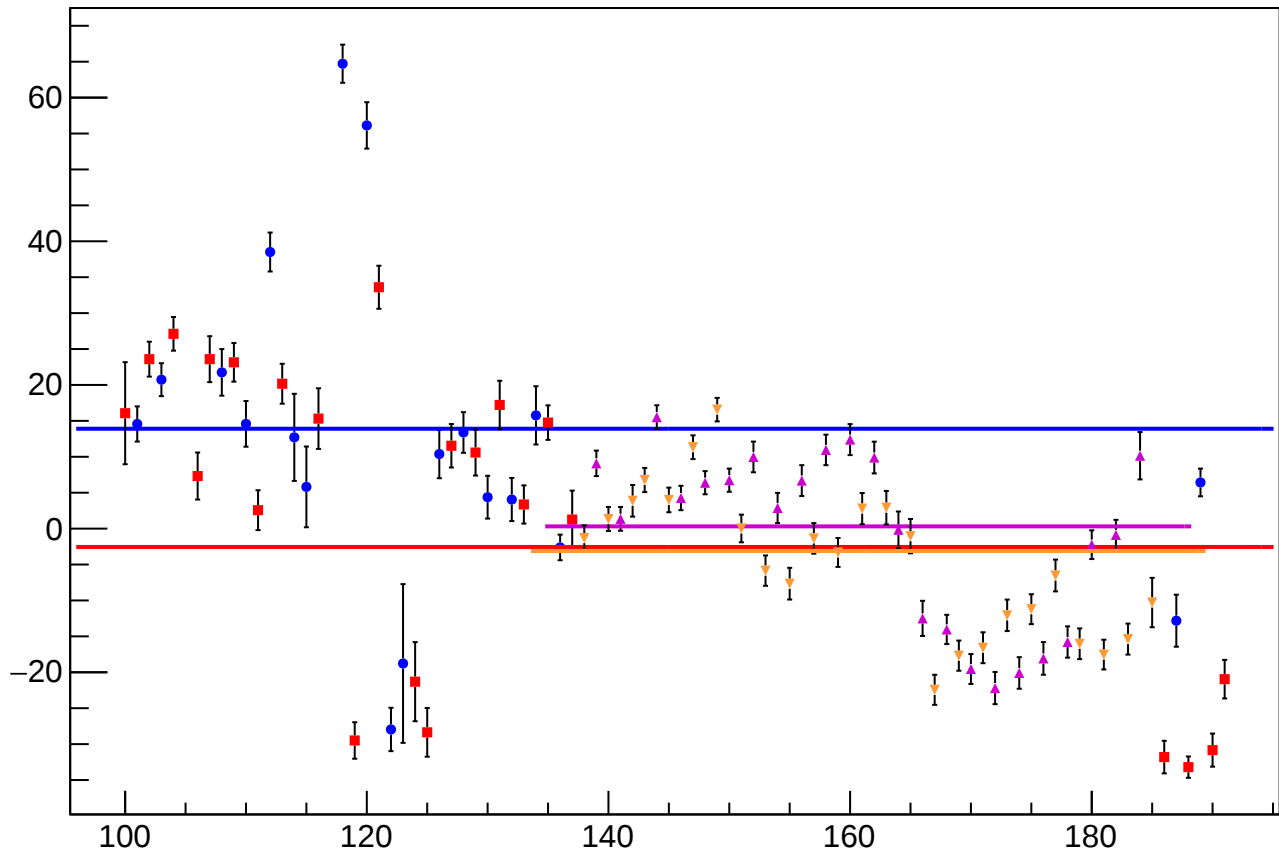
Right: 1784.407 ± 0.314 $\chi^2/\text{NDF}: 370716.0/41$

In: 1978.817 ± 0.285 $\chi^2/\text{NDF}: 1199857.0/41$

Out: 1950.049 ± 0.267 $\chi^2/\text{NDF}: 1279367.6/47$

All: 1963.459 ± 0.195 $\chi^2/\text{NDF}: 2484650.3/89$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 13.905 ± 0.665 $\chi^2/\text{NDF}: 1016.2/18$

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 $\chi^2/\text{NDF}: 1414.7/47$

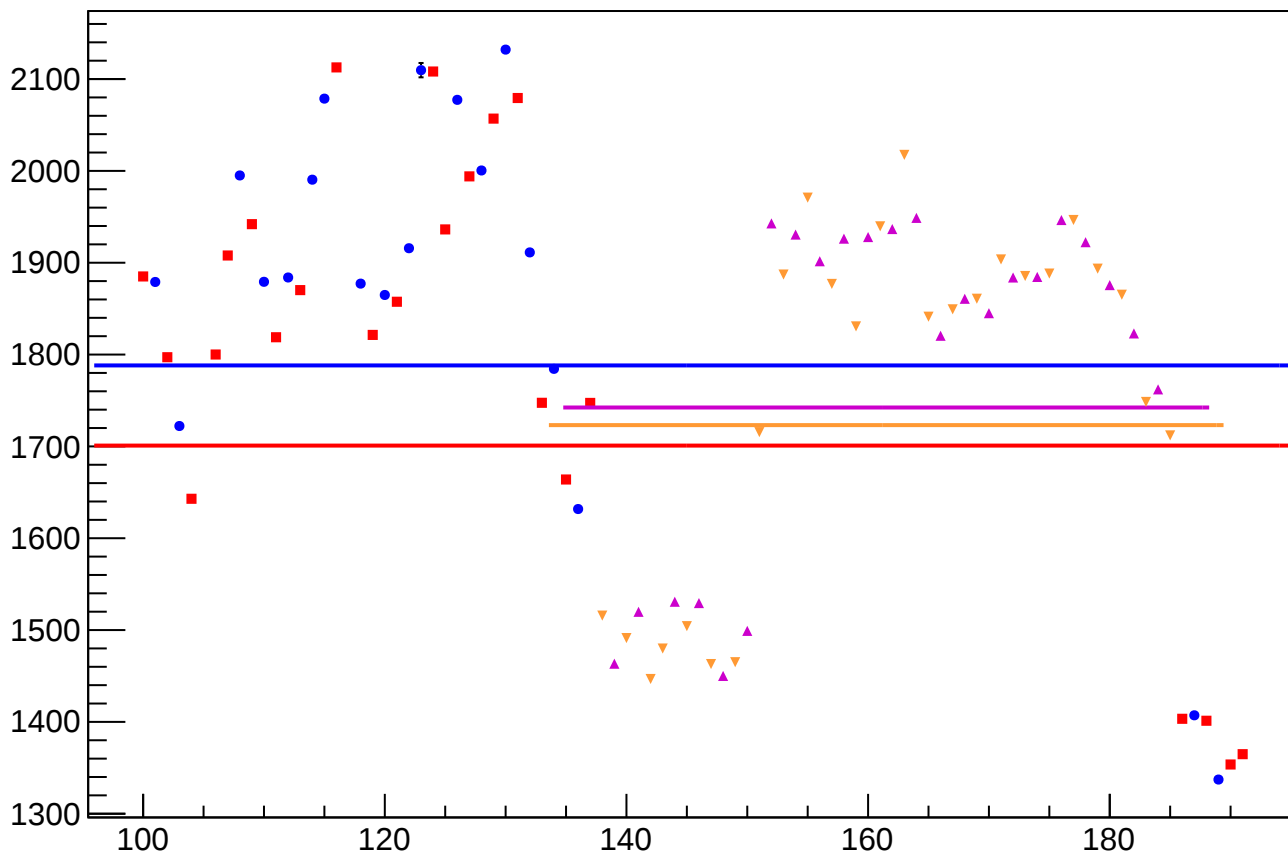
Right: 4.455 ± 0.434 $\chi^2/\text{NDF}: 3154.6/41$

In: 4.201 ± 0.356 $\chi^2/\text{NDF}: 2050.9/41$

Out: -2.926 ± 0.330 $\chi^2/\text{NDF}: 2431.2/47$

All: 0.373 ± 0.242 $\chi^2/\text{NDF}: 4697.7/89$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1788.167 ± 0.470 χ^2/NDF : 236183.9/18

Left Out: 1723.168 ± 0.286 χ^2/NDF : 477441.1/24

Right Out: 1700.880 ± 0.405 χ^2/NDF : 355387.2/22

Left In: 1742.354 ± 0.298 χ^2/NDF : 435841.5/22

Left: 1732.370 ± 0.206 χ^2/NDF : 915443.3/47

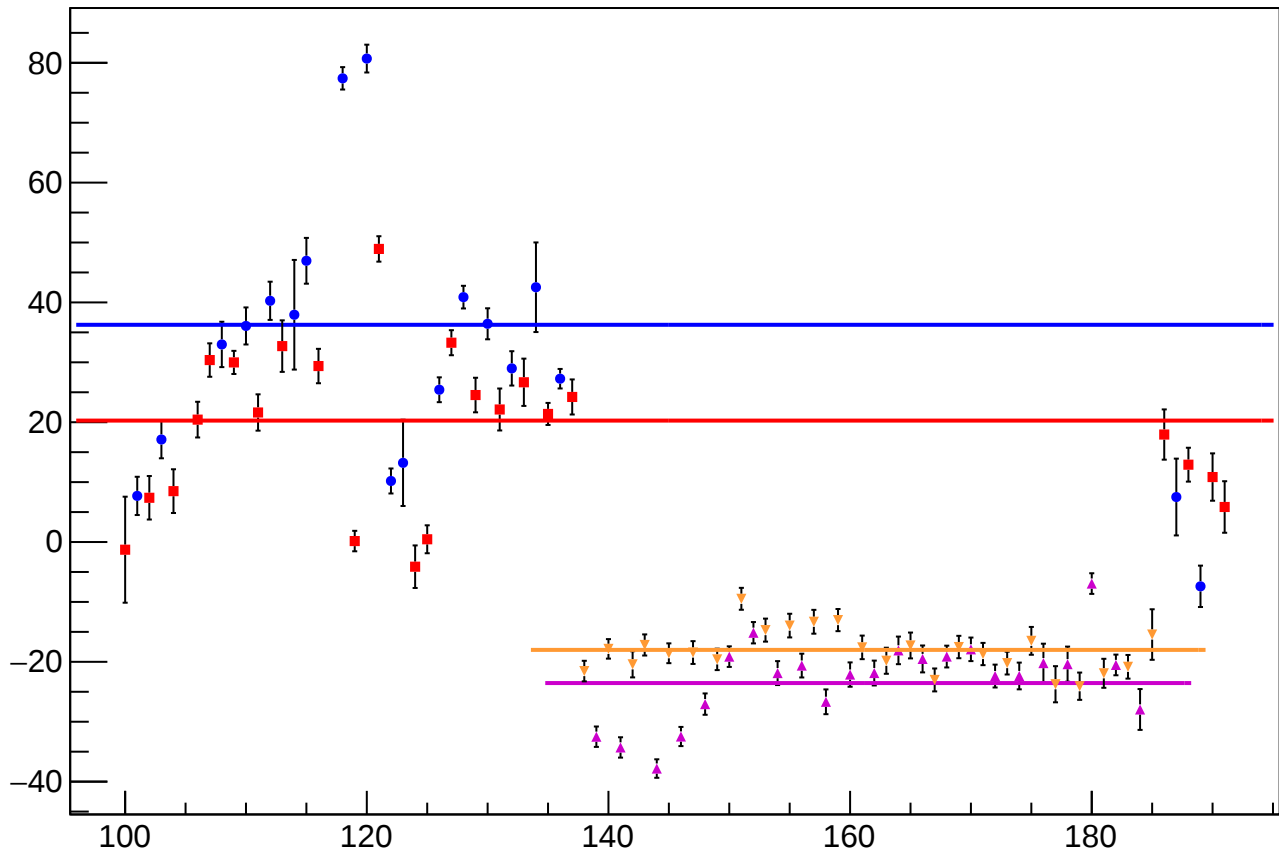
Right: 1738.044 ± 0.307 χ^2/NDF : 611351.4/41

In: 1755.462 ± 0.252 χ^2/NDF : 678799.3/41

Out: 1715.756 ± 0.234 χ^2/NDF : 834850.1/47

All: 1734.134 ± 0.171 χ^2/NDF : 1527030.2/89

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 36.264 ± 0.625 χ^2/NDF : 1395.1/18

Left Out: -18.007 ± 0.397 χ^2/NDF : 73.8/24

Right Out: 20.273 ± 0.578 χ^2/NDF : 596.2/22

Left In: -23.544 ± 0.406 χ^2/NDF : 346.7/22

Left: -20.714 ± 0.284 χ^2/NDF : 515.7/47

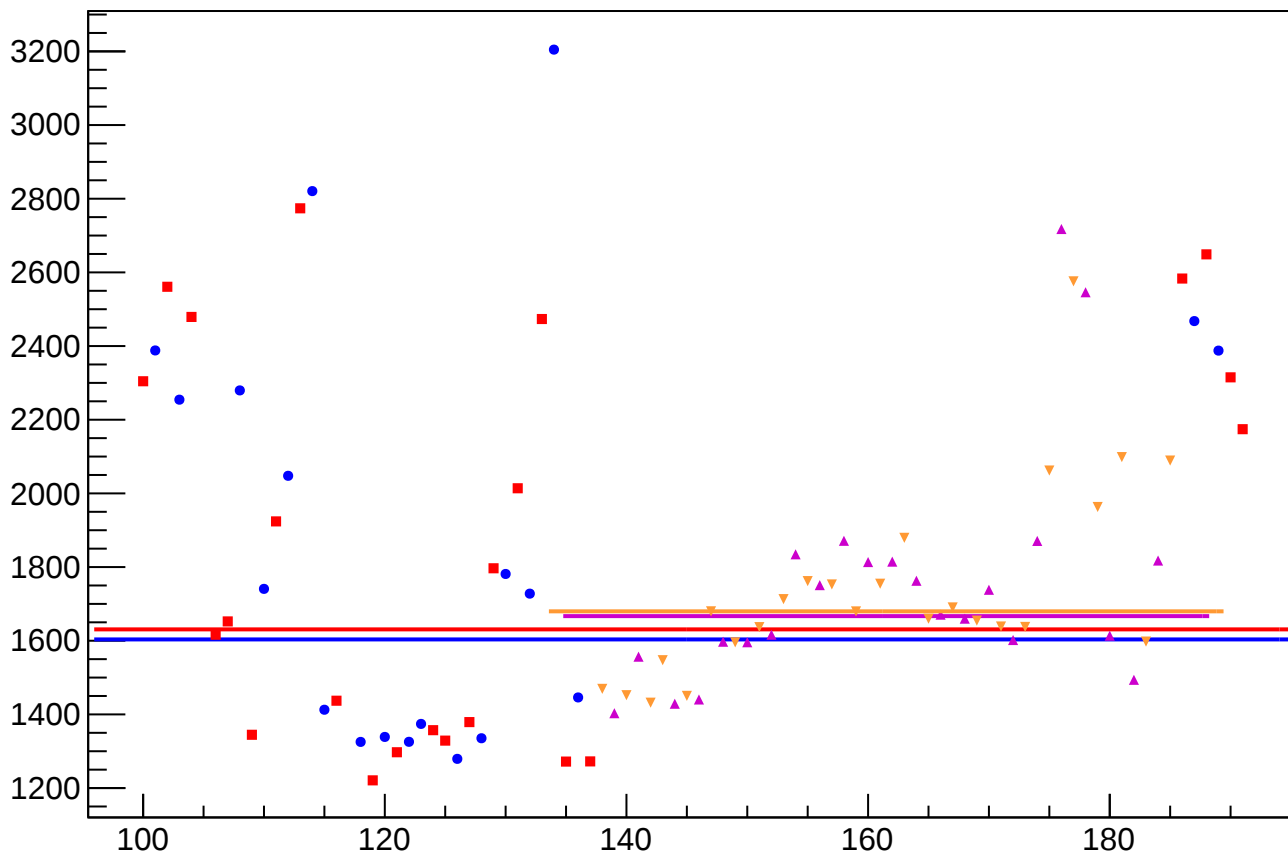
Right: 27.646 ± 0.424 χ^2/NDF : 2344.1/41

In: -5.822 ± 0.340 χ^2/NDF : 8183.0/41

Out: -5.755 ± 0.327 χ^2/NDF : 3650.4/47

All: -5.787 ± 0.236 χ^2/NDF : 11833.5/89

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1603.549 $\pm$ 0.442 χ^2 /NDF: 813545.1/18

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

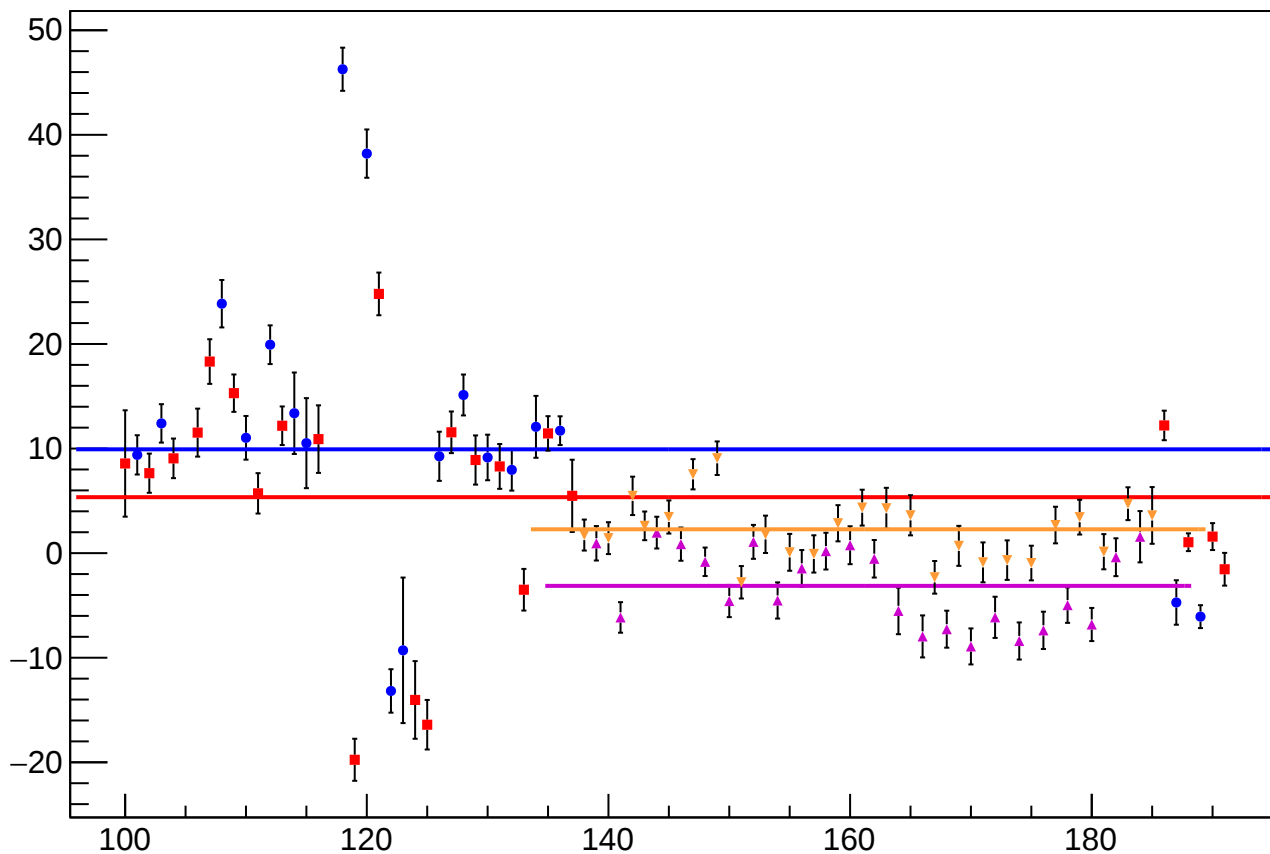
Right: 1618.253 $\pm$ 0.300 χ^2 /NDF: 2200430.3/41

In: 1648.070 $\pm$ 0.241 χ^2 /NDF:1478952.5/41

Out: 1664.137 $\pm$ 0.231 χ^2 /NDF:1917387.3/47

All: 1656.421 $\pm$ 0.167 χ^2 /NDF: 3398657.1/89

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 9.927 ± 0.461 $\chi^2/\text{NDF}: 932.6/18$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 5.351 ± 0.379 $\chi^2/\text{NDF}: 580.6/22$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

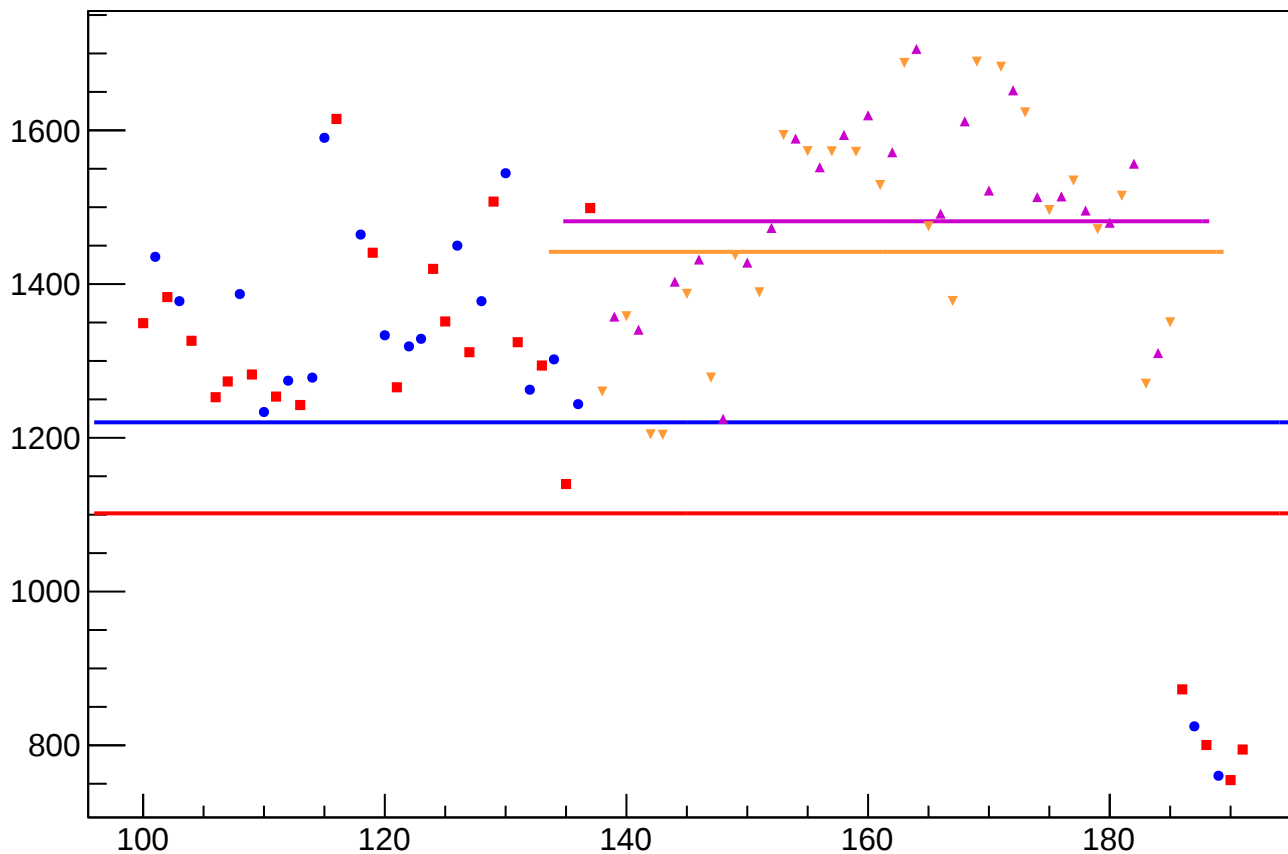
Right: 7.192 ± 0.293 $\chi^2/\text{NDF}: 1571.9/41$

In: 1.770 ± 0.283 $\chi^2/\text{NDF}: 1536.0/41$

Out: 3.644 ± 0.252 $\chi^2/\text{NDF}: 692.8/47$

All: 2.813 ± 0.188 $\chi^2/\text{NDF}: 2253.2/89$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1220.143 ± 0.326 χ^2/NDF : 607523.6/18

Left Out: 1441.951 ± 0.239 χ^2/NDF : 370617.4/24

Right Out: 1101.742 ± 0.268 χ^2/NDF : 977941.9/22

Left In: 1481.695 ± 0.253 χ^2/NDF : 208470.6/22

Left: 1460.716 ± 0.174 χ^2/NDF : 592125.7/47

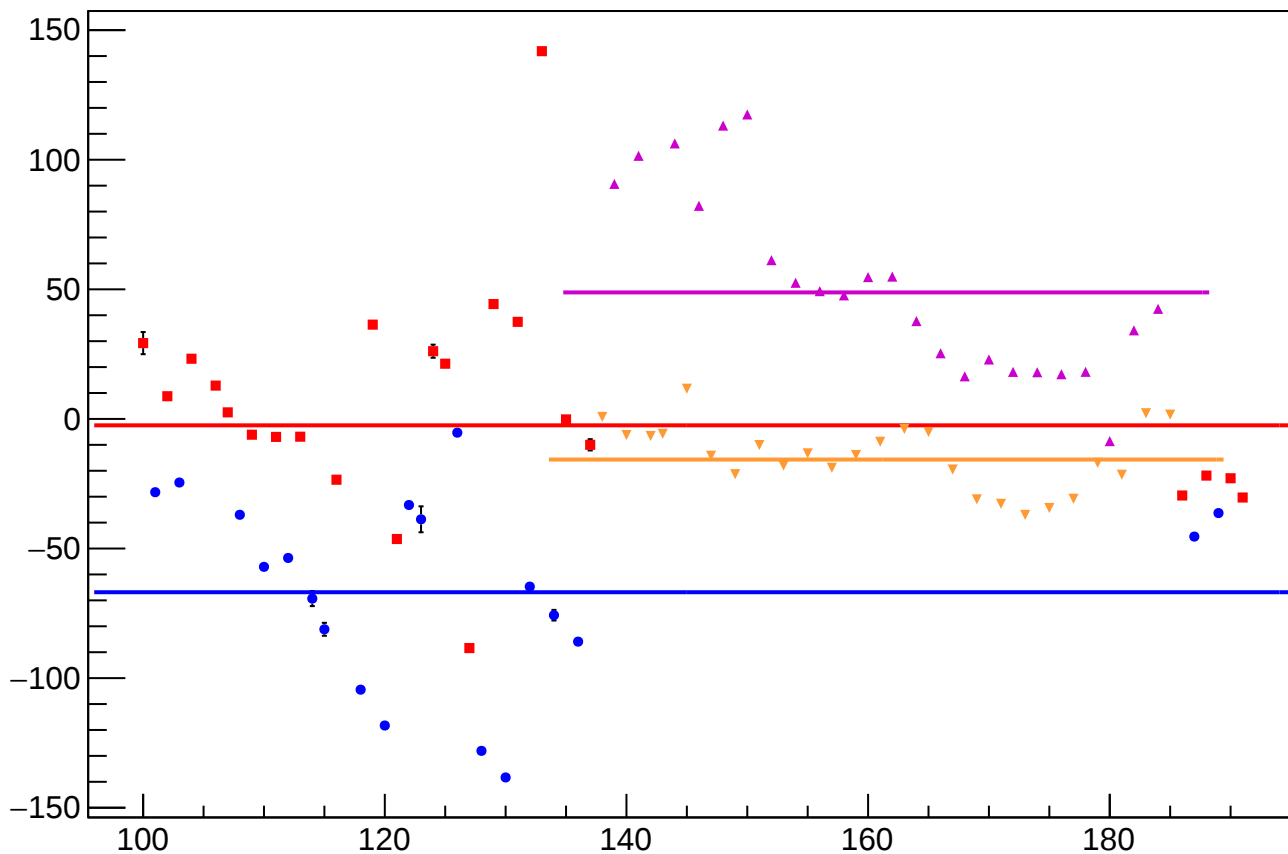
Right: 1149.364 ± 0.207 χ^2/NDF : 1664162.1/41

In: 1383.558 ± 0.200 χ^2/NDF : 1217357.5/41

Out: 1290.915 ± 0.178 χ^2/NDF : 2246806.3/47

All: 1331.977 ± 0.133 χ^2/NDF : 3583757.3/89

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -66.857 ± 0.331 χ^2/NDF : 13133.5/18

Left Out: -15.666 ± 0.212 χ^2/NDF : 3518.1/24

Right Out: -2.469 ± 0.280 χ^2/NDF : 21896.9/22

Left In: 48.812 ± 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 ± 0.152 χ^2/NDF : 73443.2/47

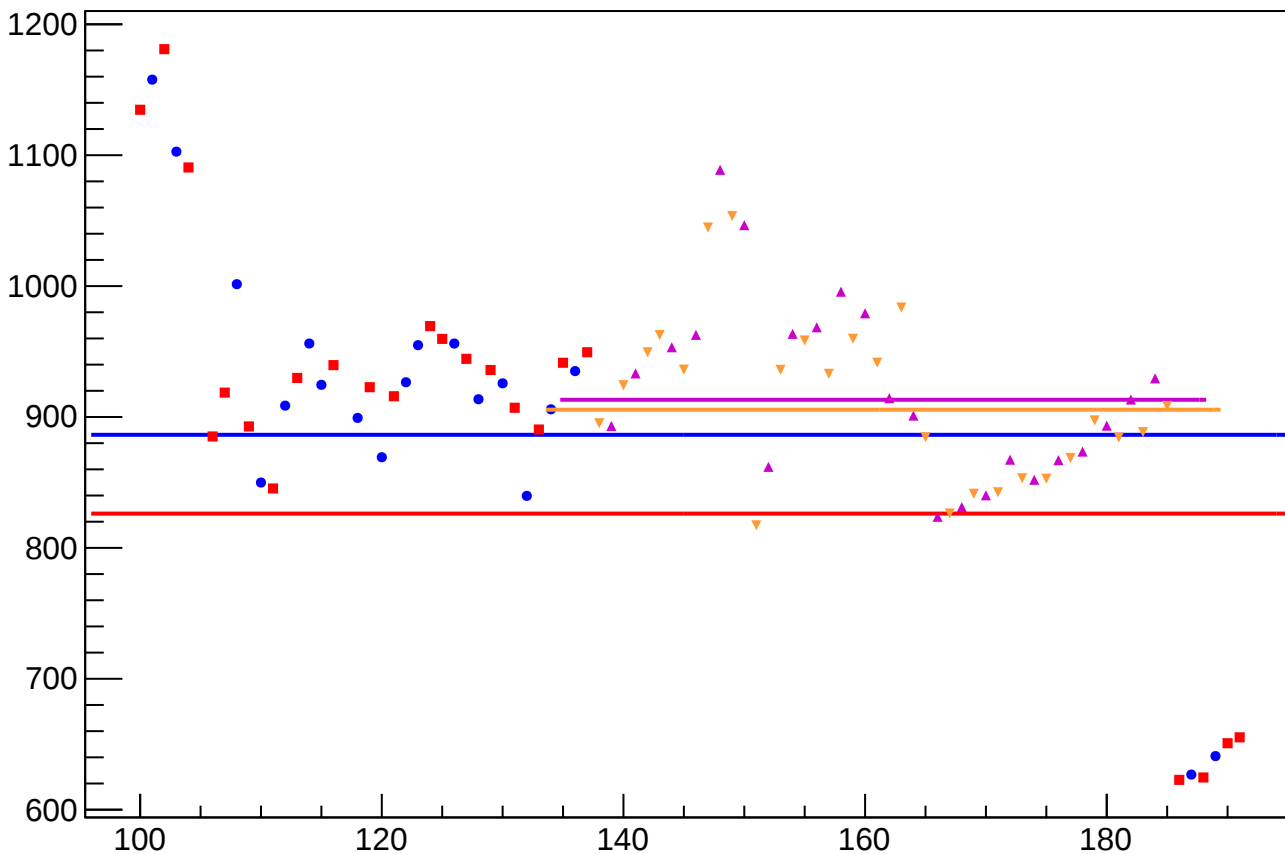
Right: -29.404 ± 0.214 χ^2/NDF : 57088.9/41

In: 13.346 ± 0.183 χ^2/NDF : 123252.8/41

Out: -10.880 ± 0.169 χ^2/NDF : 26826.7/47

All: 0.255 ± 0.124 χ^2/NDF : 159540.1/89

diff_bpm1i02X_rms vs Slug, Sign Corrected



Left: 909.225 $\pm$ 0.108 χ^2/NDF : 337749.0/47

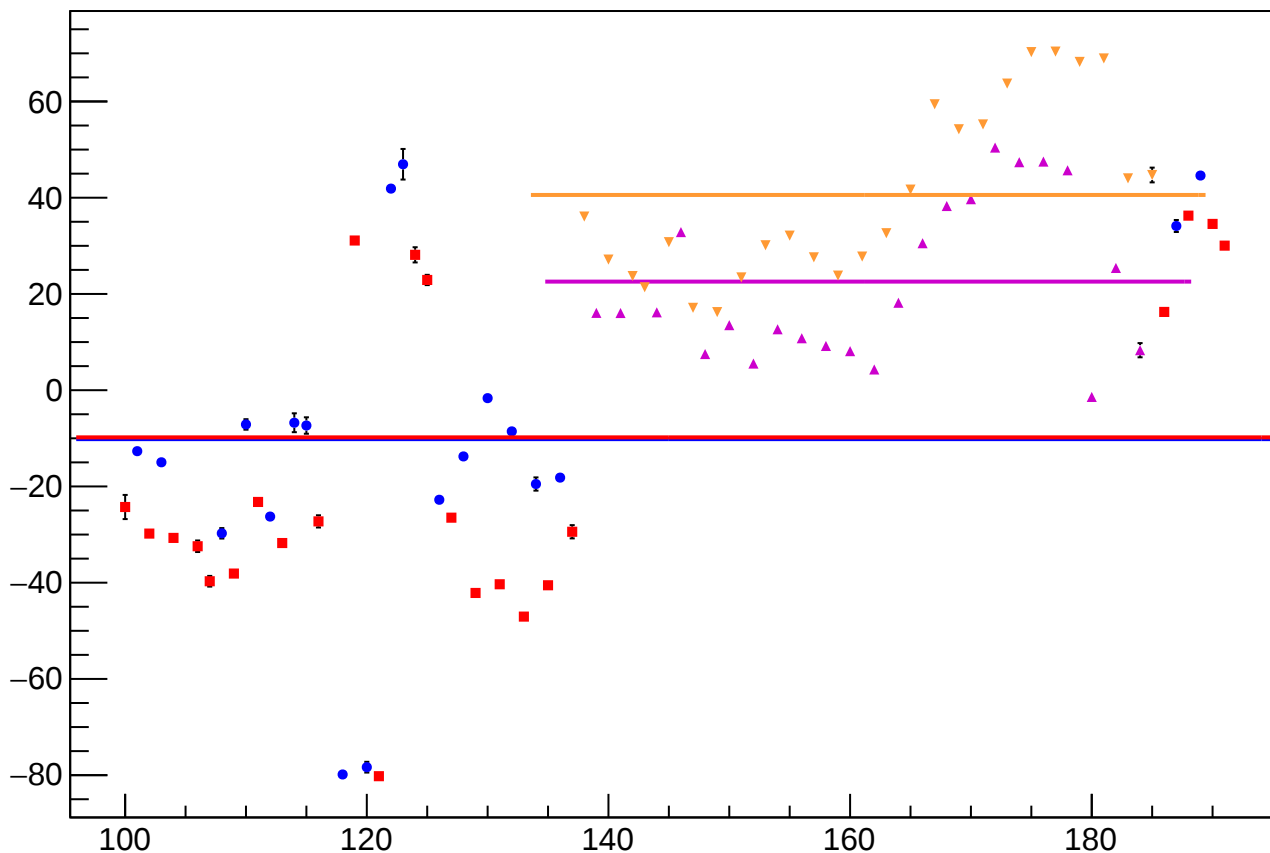
Right: 851.382 $\pm$ 0.151 χ^2/NDF : 1018442.0/41

In: 904.957 $\pm$ 0.129 χ^2/NDF : 514833.2/41

Out: 876.792 $\pm$ 0.119 χ^2/NDF : 912804.3/47

All: 889.737 $\pm$ 0.088 χ^2/NDF : 1453212.7/89

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -10.167 ± 0.225 χ^2/NDF : 21868.8/18

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

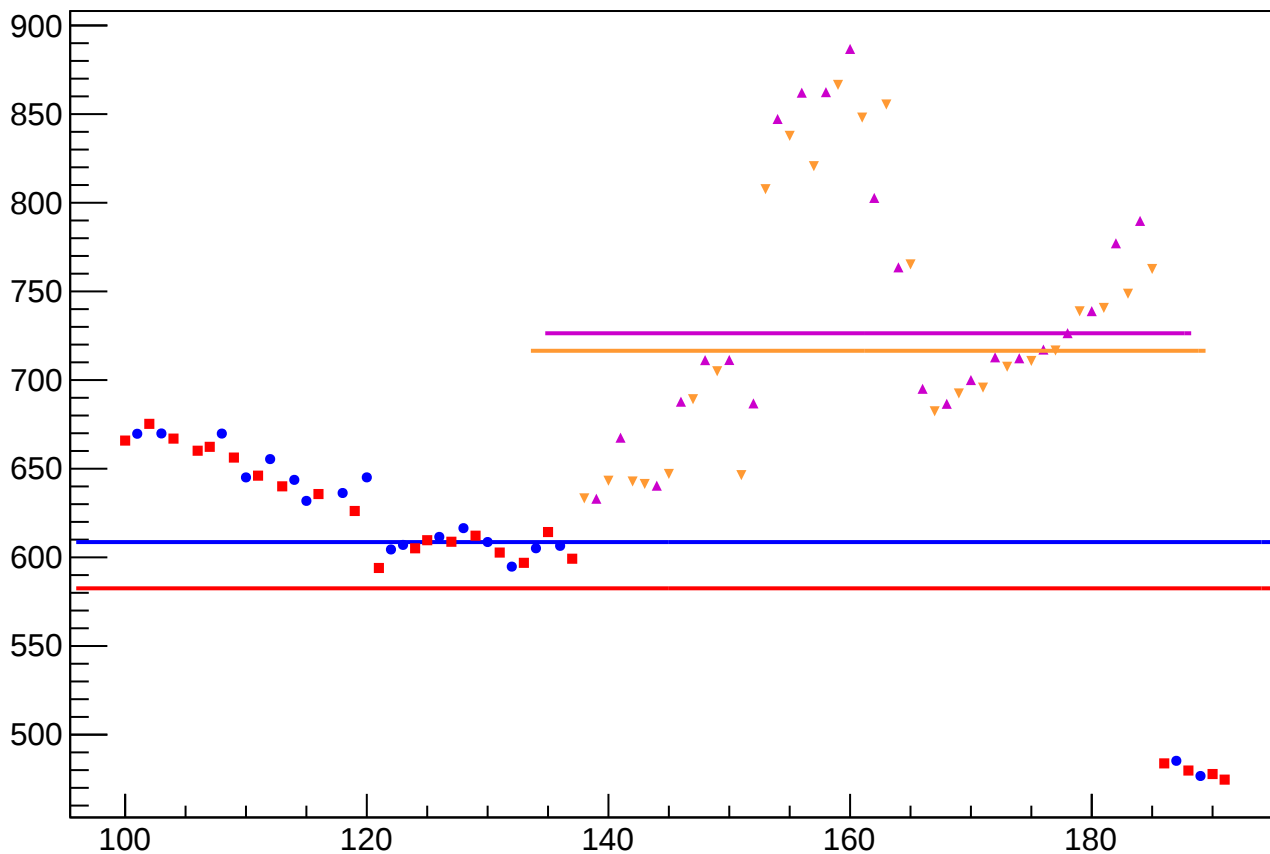
Right: -9.958 ± 0.148 χ^2/NDF : 54652.8/41

In: 10.229 ± 0.138 χ^2/NDF : 43179.8/41

Out: 19.205 ± 0.127 χ^2/NDF : 83070.9/47

All: 15.088 ± 0.094 χ^2/NDF : 128529.1/89

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 608.618 ± 0.159 $\chi^2/\text{NDF}: 131988.7/18$

Left Out: 716.515 ± 0.119 $\chi^2/\text{NDF}: 342740.2/24$

Right Out: 582.536 ± 0.138 $\chi^2/\text{NDF}: 278252.3/22$

Left In: 726.390 ± 0.124 $\chi^2/\text{NDF}: 289788.8/22$

Left: 721.238 ± 0.086 $\chi^2/\text{NDF}: 635840.6/47$

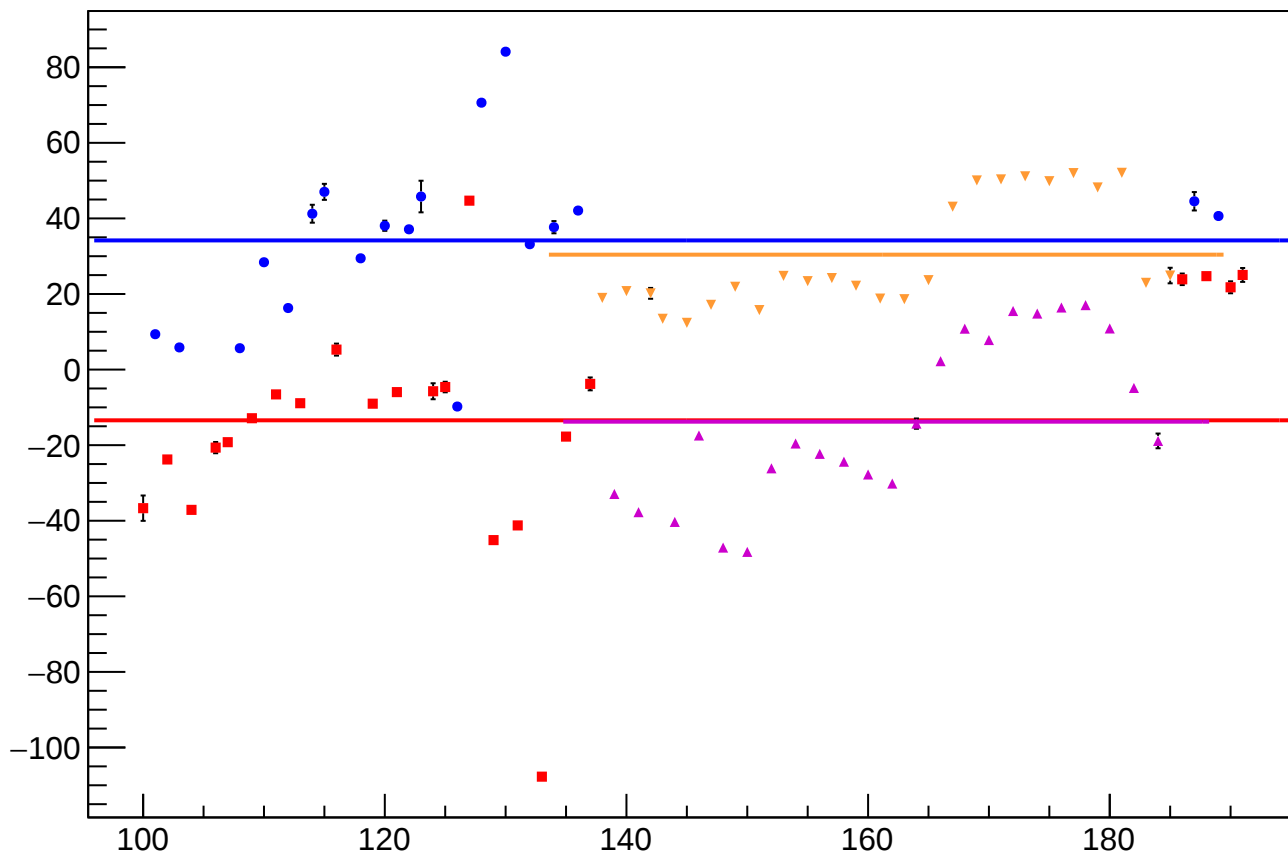
Right: 593.738 ± 0.104 $\chi^2/\text{NDF}: 425522.1/41$

In: 682.003 ± 0.098 $\chi^2/\text{NDF}: 762068.0/41$

Out: 659.684 ± 0.090 $\chi^2/\text{NDF}: 1161582.4/47$

All: 669.921 ± 0.066 $\chi^2/\text{NDF}: 1951822.5/89$

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 34.178+/-0.291 χ^2/NDF : 6472.4/18

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -13.426+/-0.269 χ^2/NDF : 14839.5/22

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

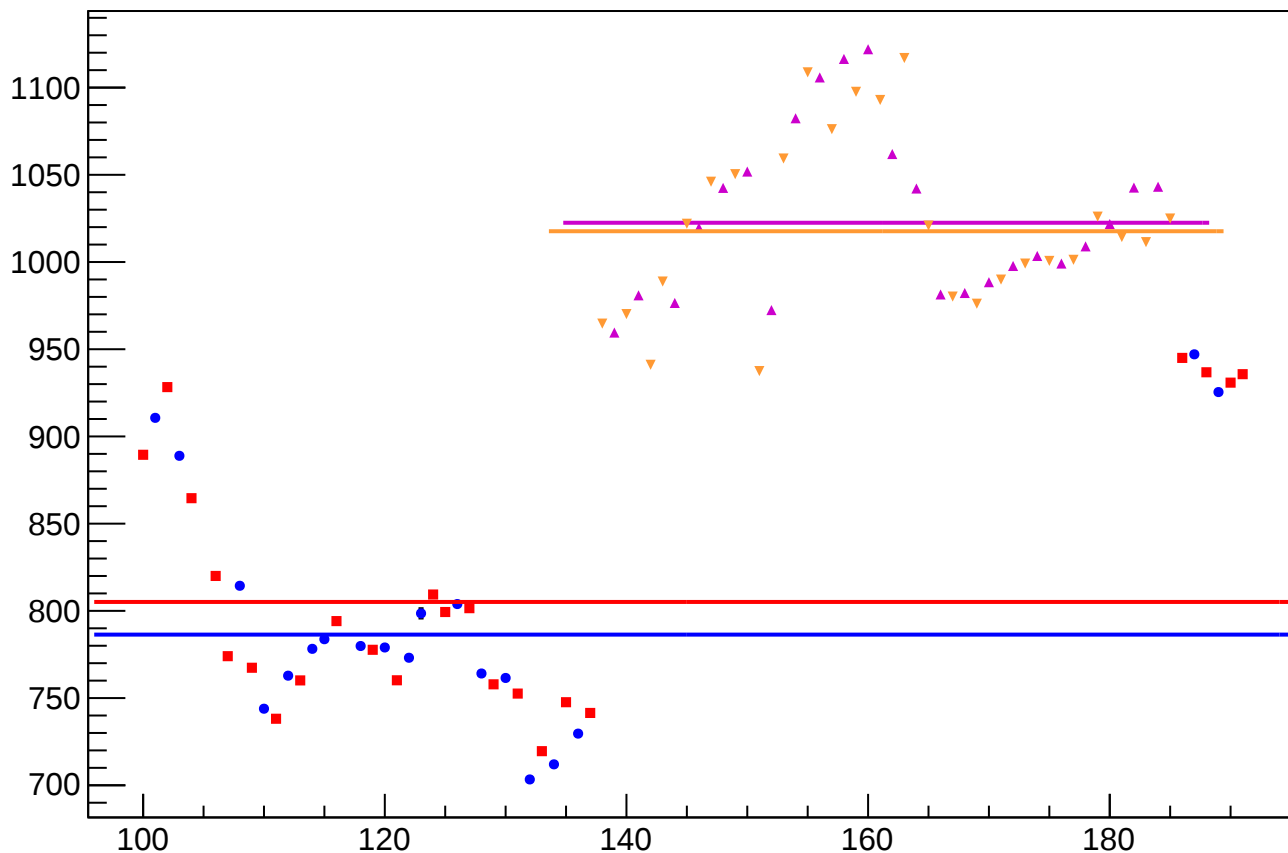
Right: 8.540+/-0.198 χ^2/NDF : 35727.0/41

In: 6.190+/-0.188 χ^2/NDF : 30307.9/41

Out: 11.243+/-0.178 χ^2/NDF : 33554.1/47

All: 8.850+/-0.129 χ^2/NDF : 64243.2/89

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 786.385 ± 0.206 $\chi^2/\text{NDF}: 99948.4/18$

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 $\chi^2/\text{NDF}: 153652.2/47$

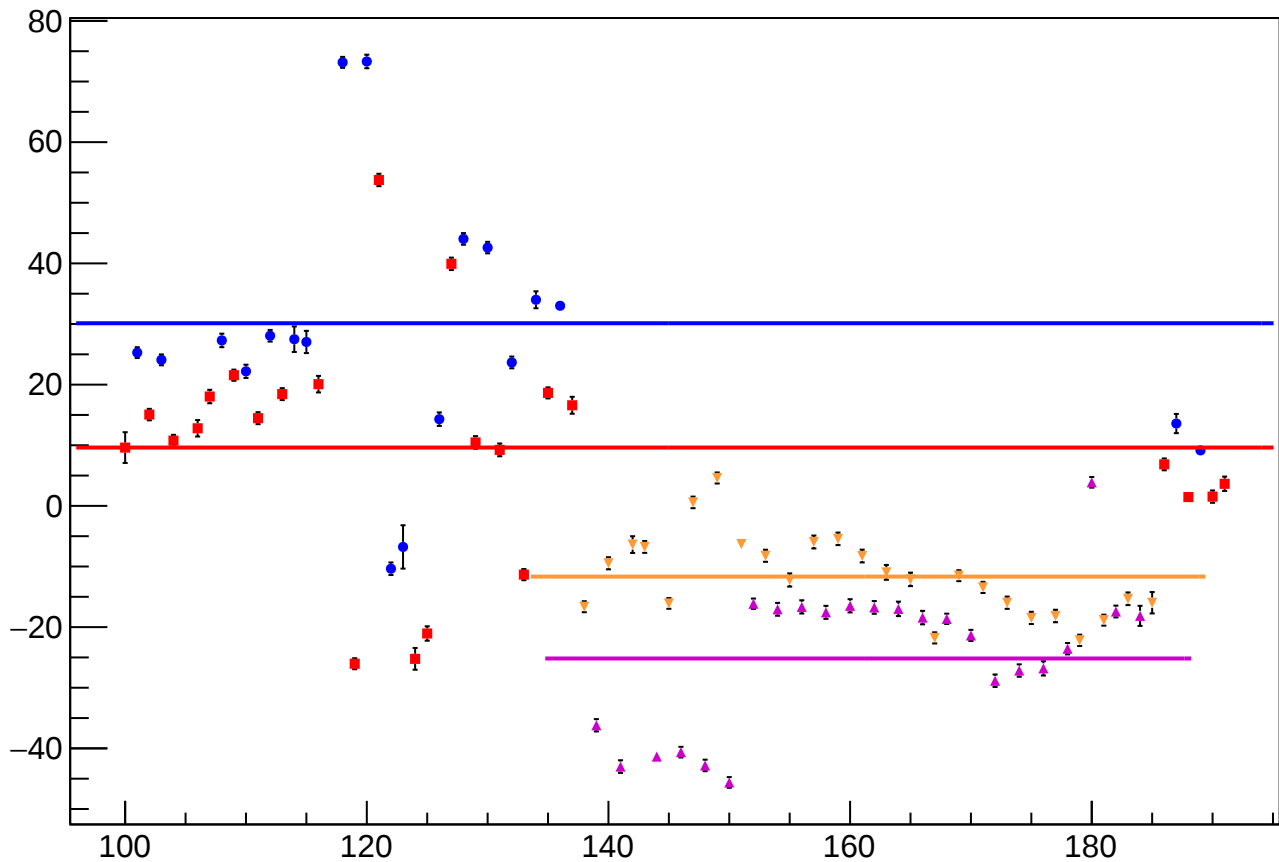
Right: 796.472 ± 0.140 $\chi^2/\text{NDF}: 250181.8/41$

In: 924.168 ± 0.133 $\chi^2/\text{NDF}: 938104.2/41$

Out: 924.723 ± 0.126 $\chi^2/\text{NDF}: 930304.5/47$

All: 924.460 ± 0.091 $\chi^2/\text{NDF}: 1868417.9/89$

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 30.126+/-0.239 χ^2 /NDF: 6932.2/18

Left Out: -11.664+/-0.200 χ^2 /NDF:1147.4/24

Right Out: 9.622+/-0.216 χ^2 /NDF: 6643.0/22

Left In: -25.174+/-0.207 χ^2 /NDF:3747.1/22

Left: -18.184+/-0.144 χ^2 /NDF: 7090.4/47

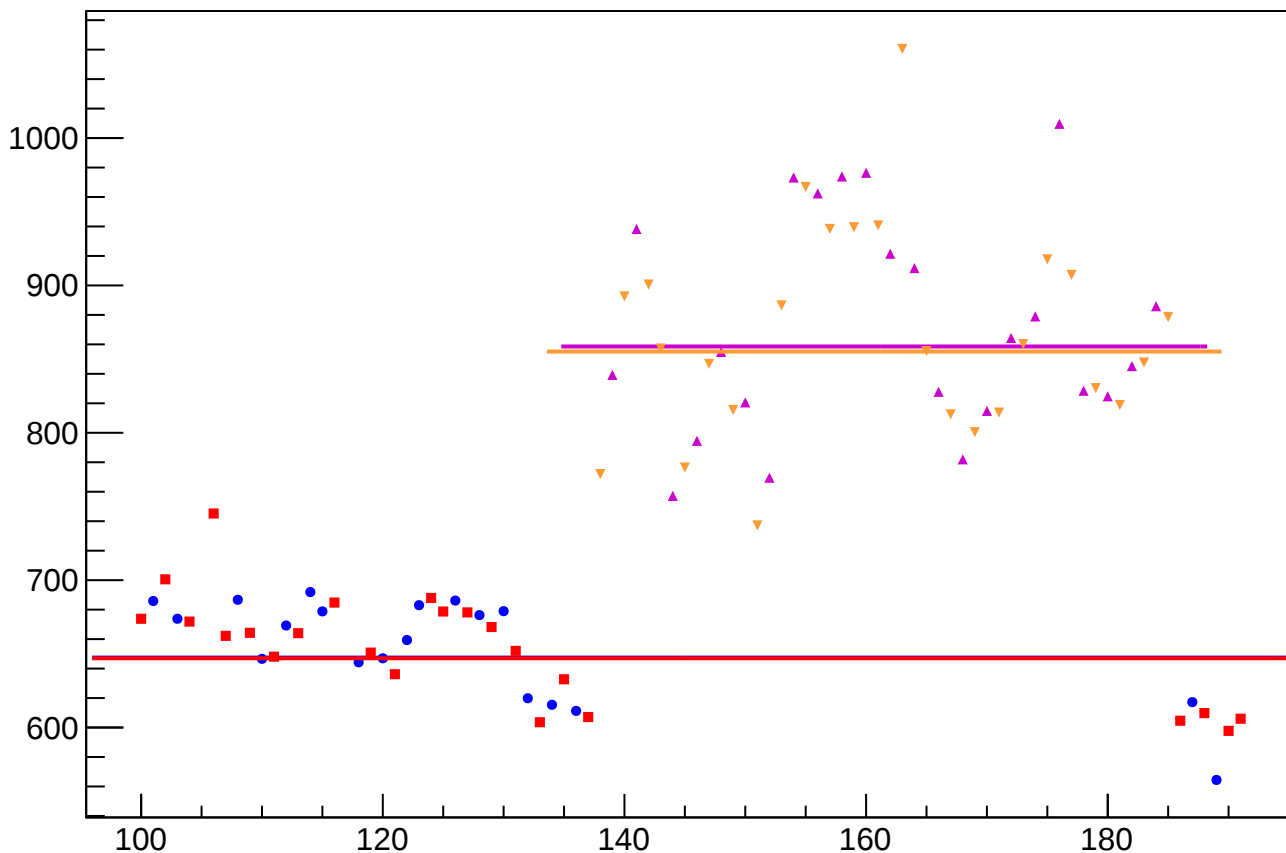
Right: 18.826+/-0.160 χ^2 /NDF: 17623.4/41

In: -1.449+/-0.157 χ^2 /NDF:41187.9/41

Out: -1.819+/-0.147 χ^2 /NDF:13014.7/47

All: -1.646+/-0.107 χ^2 /NDF: 54205.6/89

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 647.436 $\pm$ 0.169 χ^2 /NDF: 47110.4/18

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

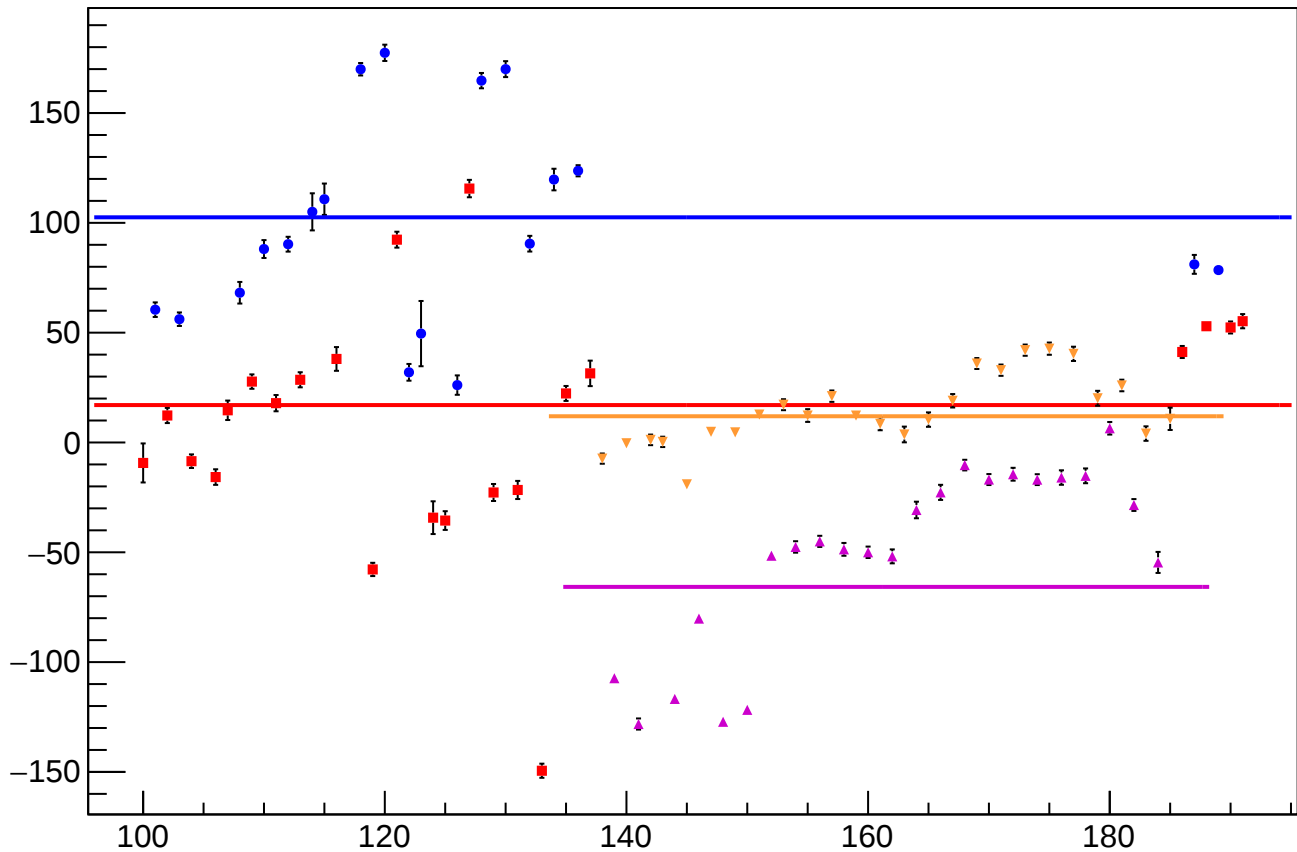
Right: 647.194 $\pm$ 0.113 χ^2 /NDF: 98244.8/41

In: 767.984 $\pm$ 0.111 χ^2 /NDF:1175524.9/41

Out: 758.866 $\pm$ 0.104 χ^2 /NDF:1283851.9/47

All: 763.129 $\pm$ 0.076 χ^2 /NDF: 2462982.2/89

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 102.519 $\pm$ 0.834 χ^2 /NDF: 2995.0/18

Left Out: 11.938 $\pm$ 0.505 χ^2 /NDF:976.6/24

Right Out: 17.031 $\pm$ 0.712 χ^2 /NDF: 5760.8/22

Left In: -65.752 $\pm$ 0.518 χ^2 /NDF:7335.8/22

Left: -25.968 $\pm$ 0.362 χ^2 /NDF: 19845.5/47

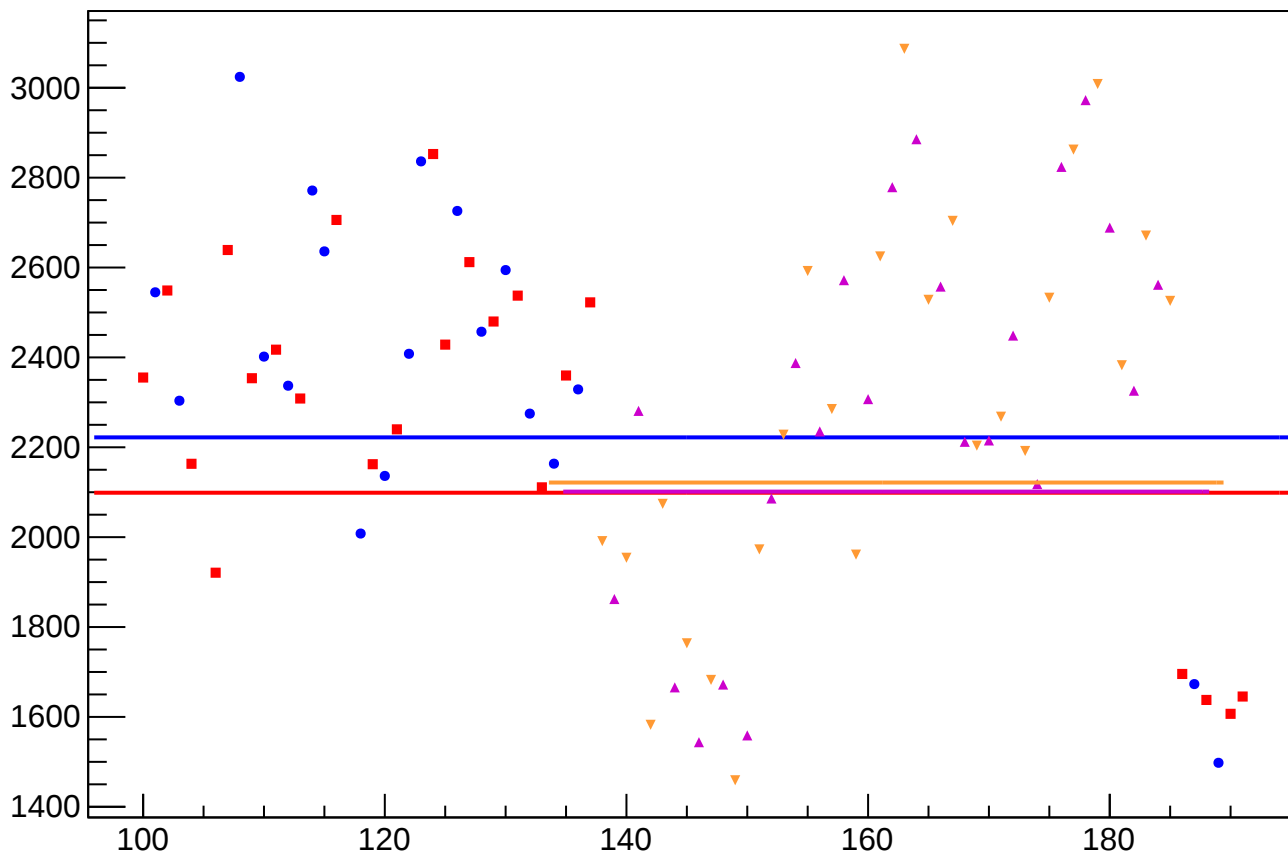
Right: 53.087 $\pm$ 0.542 χ^2 /NDF: 14833.6/41

In: -18.938 $\pm$ 0.440 χ^2 /NDF:39724.9/41

Out: 13.644 $\pm$ 0.412 χ^2 /NDF:6771.4/47

All: -1.589 $\pm$ 0.301 χ^2 /NDF: 49418.6/89

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2222.050 ± 0.590 $\chi^2/\text{NDF}: 429441.0/18$

Left Out: 2121.567 ± 0.357 $\chi^2/\text{NDF}: 1387847.6/24$

Right Out: 2098.879 ± 0.504 $\chi^2/\text{NDF}: 553738.6/22$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

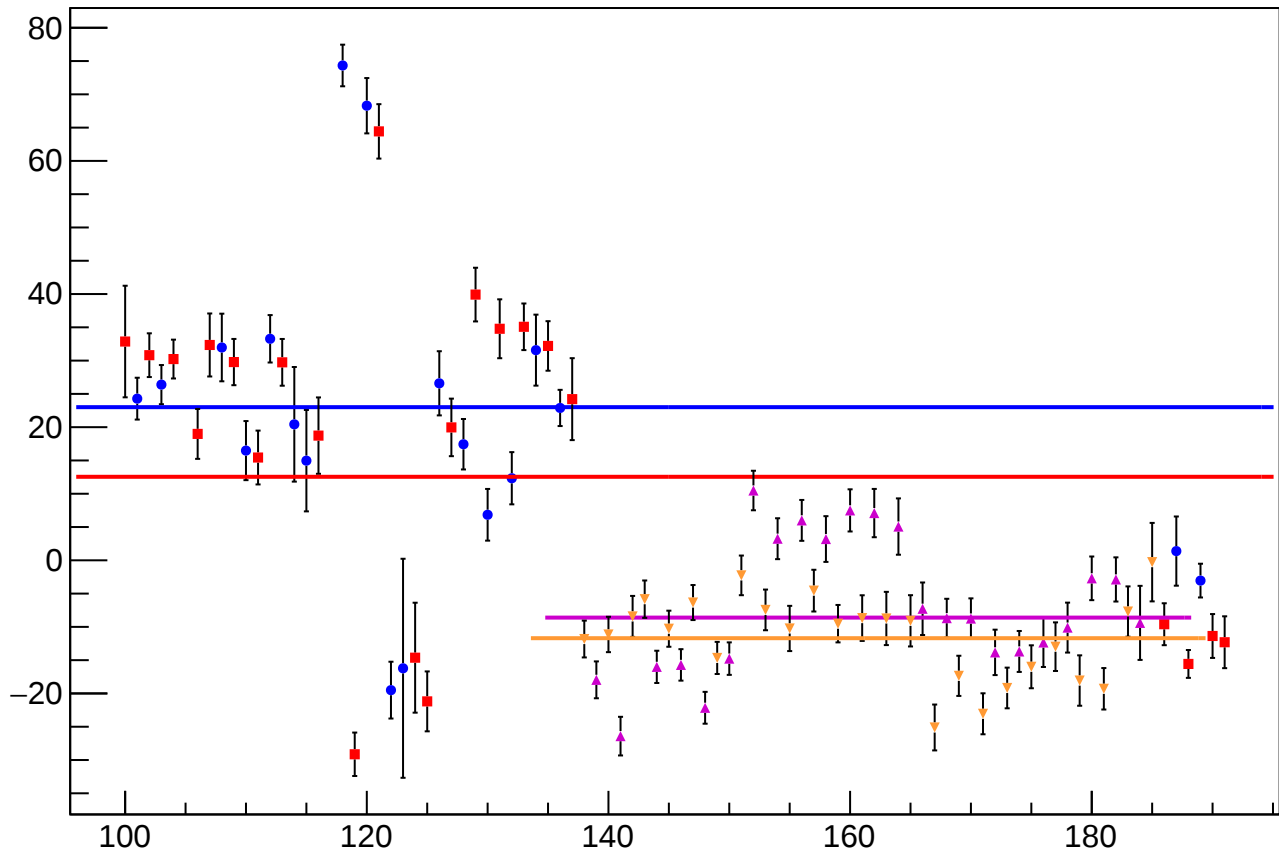
Right: 2150.828 ± 0.383 $\chi^2/\text{NDF}: 1008413.0/41$

In: 2134.911 ± 0.311 $\chi^2/\text{NDF}: 1820219.0/41$

Out: 2113.970 ± 0.291 $\chi^2/\text{NDF}: 1942936.3/47$

All: 2123.760 ± 0.213 $\chi^2/\text{NDF}: 3765569.7/89$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 23.007 $\pm$ 0.897 χ^2 /NDF: 662.5/18

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

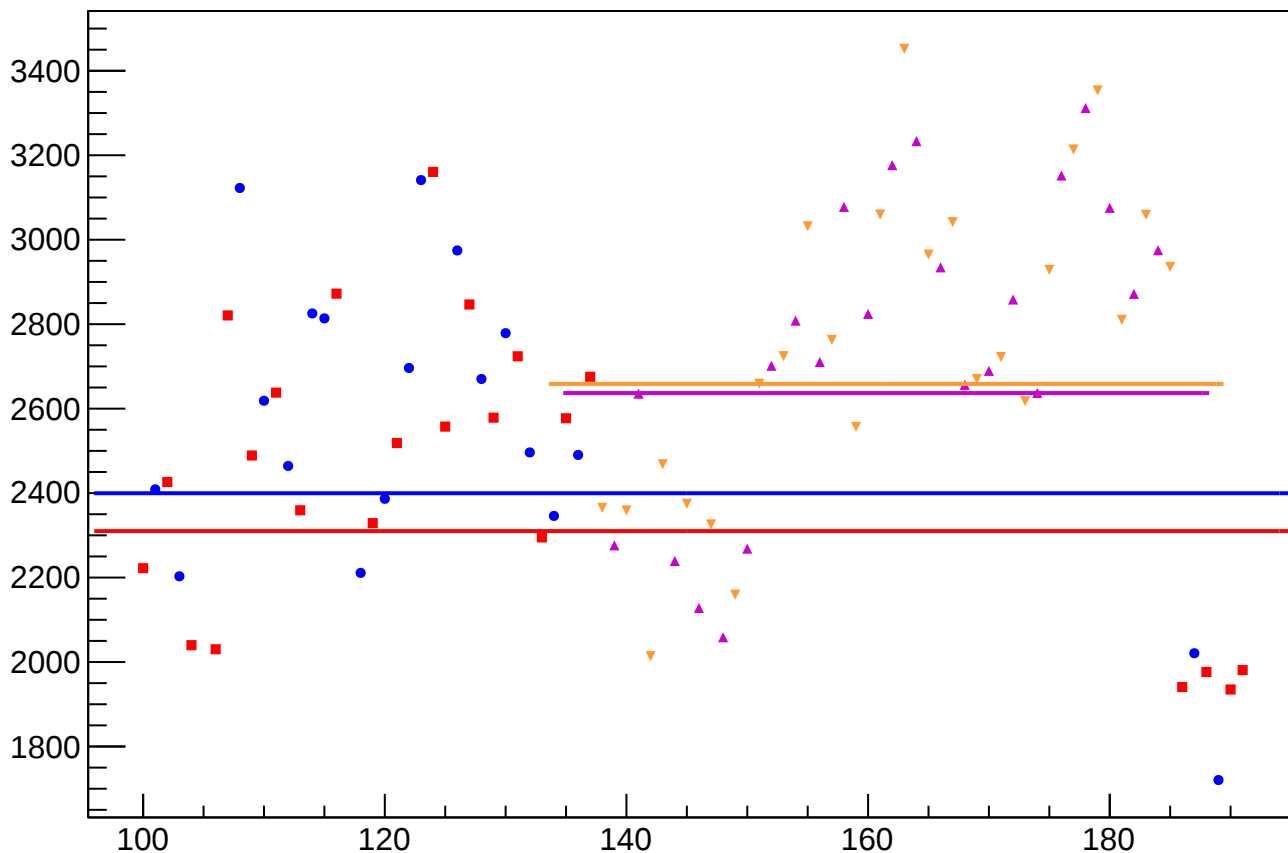
Right: 17.042 $\pm$ 0.588 χ^2 /NDF: 1746.2/41

In: 2.094 $\pm$ 0.522 χ^2 /NDF: 1747.5/41

Out: -2.198 $\pm$ 0.488 χ^2 /NDF: 1680.3/47

All: -0.198 $\pm$ 0.356 χ^2 /NDF: 3463.9/89

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2399.694 $\pm$ 0.635 χ^2 /NDF: 302276.0/18

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

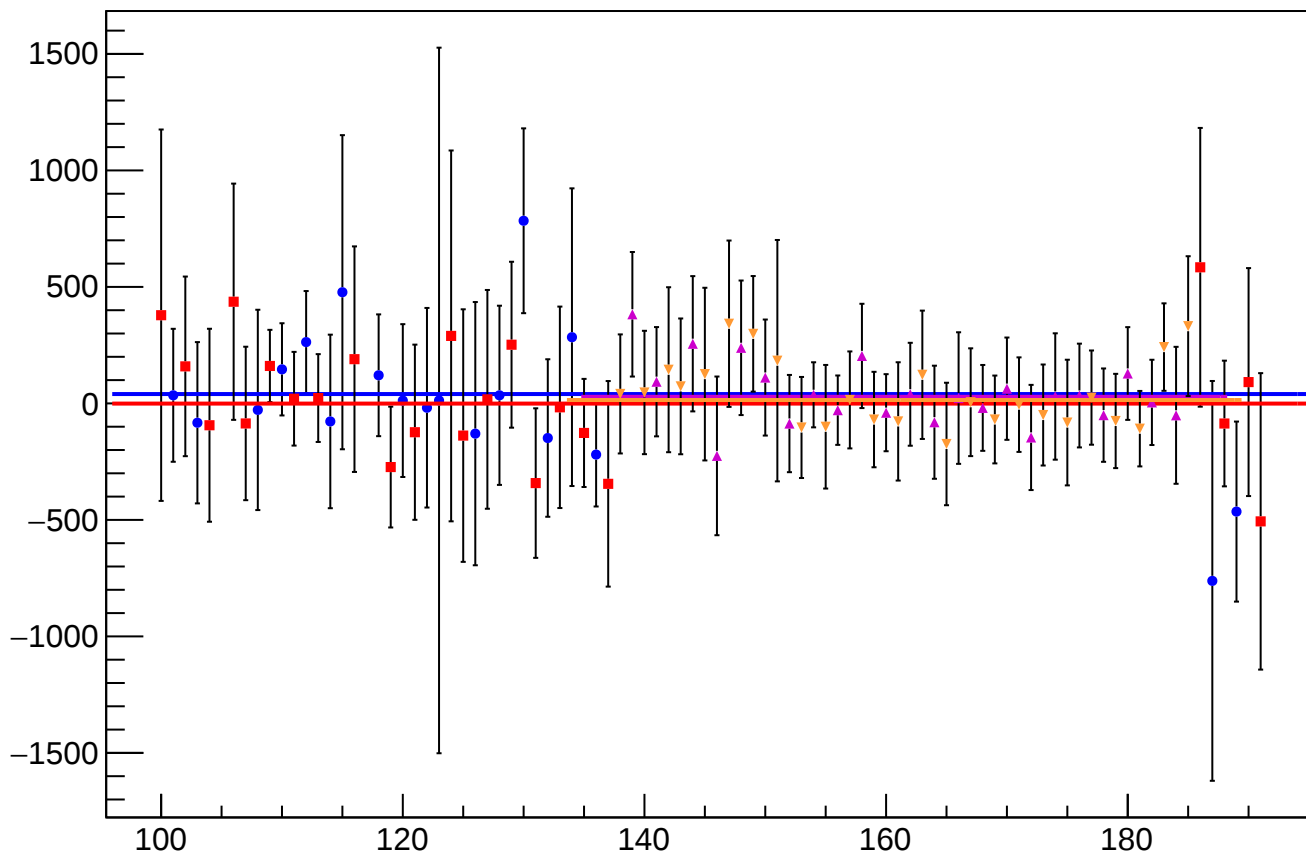
Right: 2348.578 $\pm$ 0.416 χ^2 /NDF: 631712.7/41

In: 2556.605 $\pm$ 0.369 χ^2 /NDF: 1047591.0/41

Out: 2521.946 $\pm$ 0.345 χ^2 /NDF: 1179433.7/47

All: 2538.097 $\pm$ 0.252 χ^2 /NDF: 2231730.8/89

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 40.180+/-77.309 χ^2/NDF : 10.1/18

Left Out: 14.520+/-47.528 χ^2/NDF : 7.8/24

Right Out: -0.776+/-66.325 χ^2/NDF : 8.2/22

Left In: 28.310+/-44.638 χ^2/NDF : 6.3/22

Left: 21.847+/-32.538 χ^2/NDF : 14.1/47

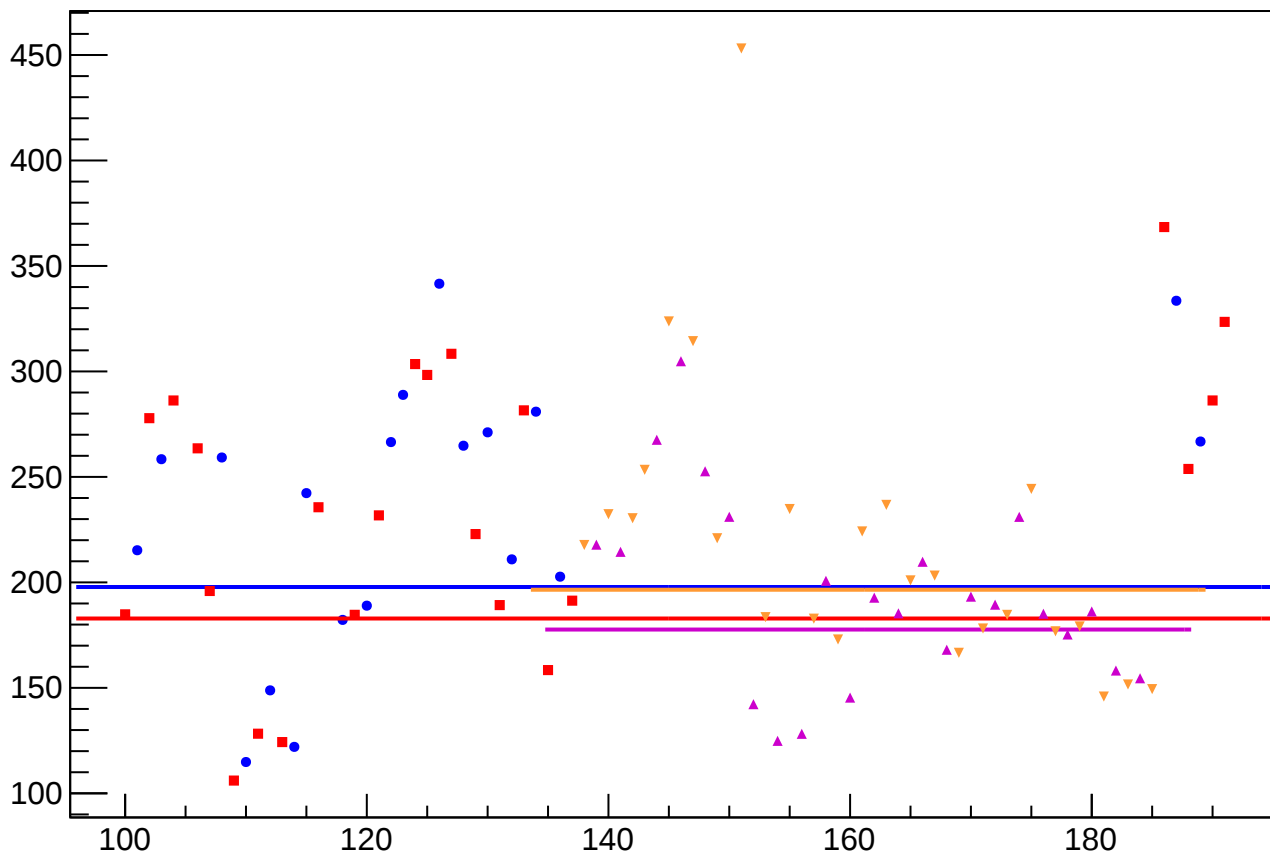
Right: 16.588+/-50.338 χ^2/NDF : 18.5/41

In: 31.278+/-38.657 χ^2/NDF : 16.4/41

Out: 9.330+/-38.633 χ^2/NDF : 16.0/47

All: 20.297+/-27.326 χ^2/NDF : 32.6/89

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.807 $\pm$ 0.055 χ^2 /NDF: 1130112.5/18

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

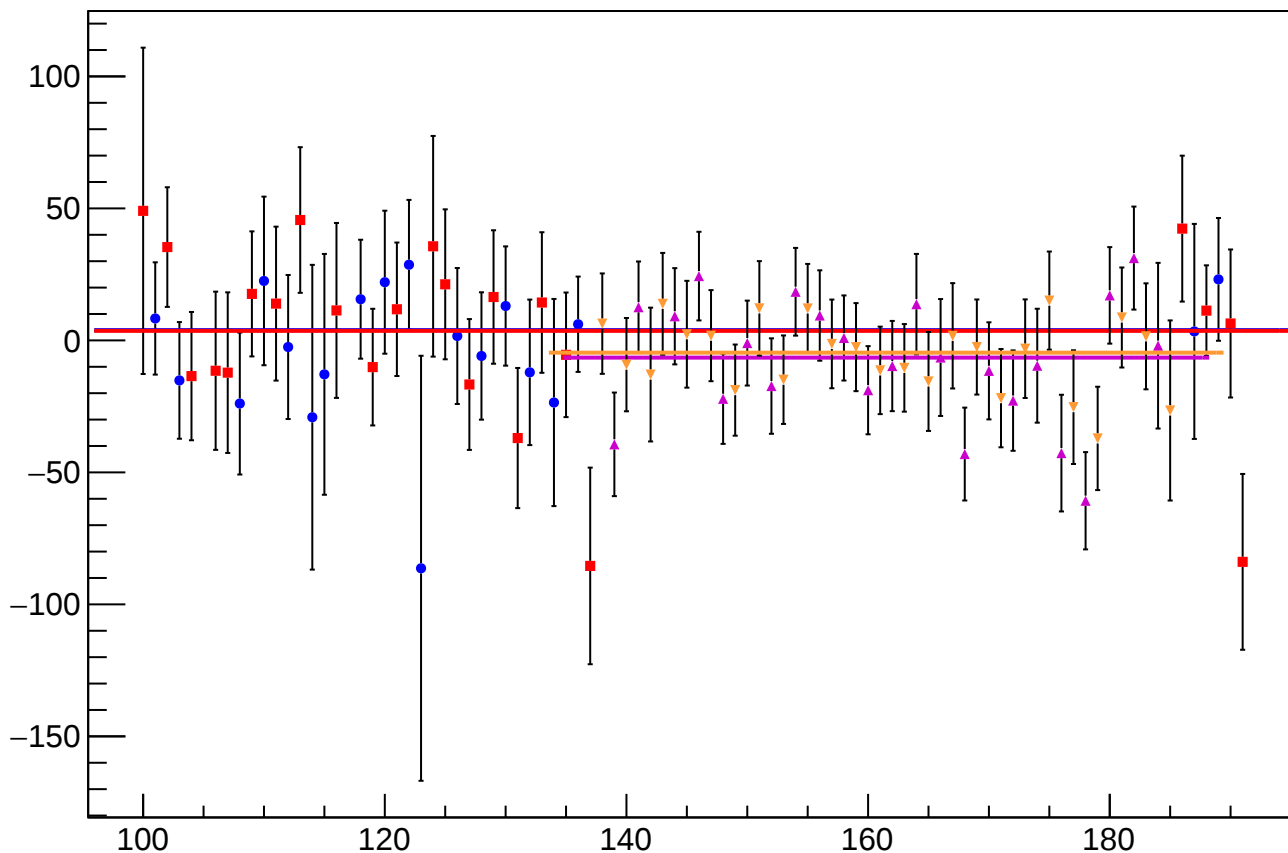
Right: 189.205 $\pm$ 0.036 χ^2 /NDF: 3312772.2/41

In: 182.685 $\pm$ 0.027 χ^2 /NDF: 2862814.0/41

Out: 191.886 $\pm$ 0.027 χ^2 /NDF: 3985070.5/47

All: 187.288 $\pm$ 0.019 χ^2 /NDF: 6904572.1/89

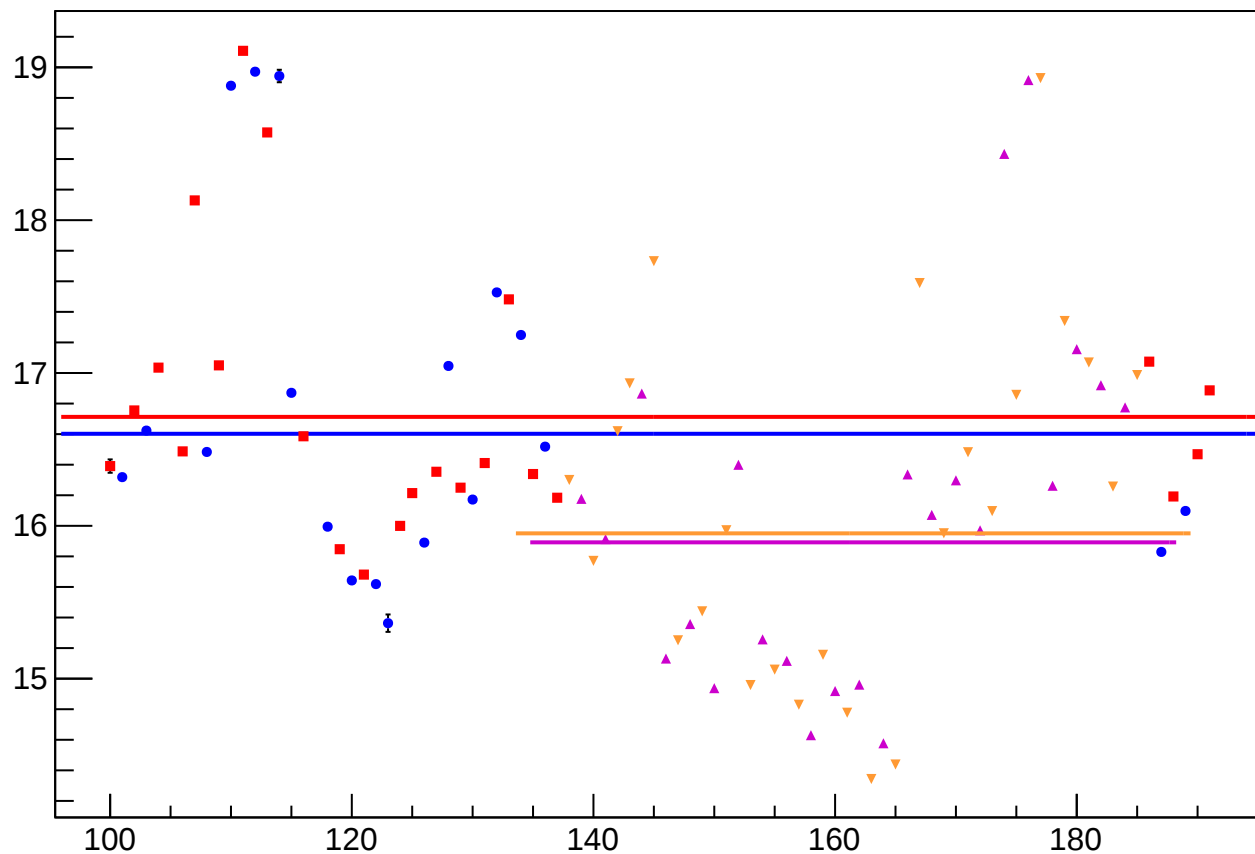
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.885 ± 6.136 $\chi^2/\text{NDF}: 7.6/18$
 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: 3.740 ± 4.128 $\chi^2/\text{NDF}: 33.8/41$
 In: -3.610 ± 3.247 $\chi^2/\text{NDF}: 46.0/41$
 Out: -2.094 ± 3.100 $\chi^2/\text{NDF}: 39.8/47$
 All: -2.817 ± 2.242 $\chi^2/\text{NDF}: 85.9/89$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.602 $\pm$ 0.004 χ^2/NDF : 44094.7/18

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

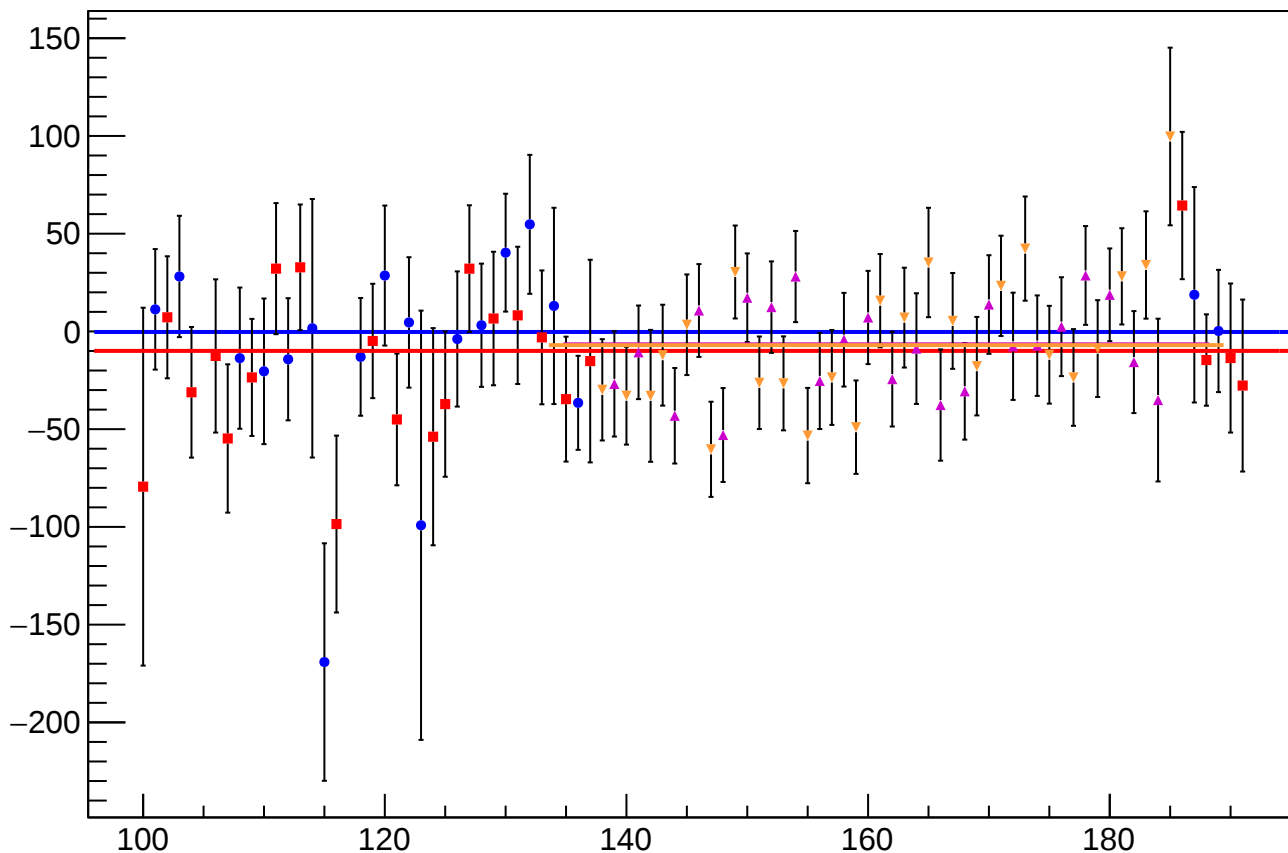
Right: 16.663 $\pm$ 0.003 χ^2/NDF : 86267.4/41

In: 16.091 $\pm$ 0.002 χ^2/NDF : 210485.3/41

Out: 16.186 $\pm$ 0.002 χ^2/NDF : 241077.3/47

All: 16.141 $\pm$ 0.002 χ^2/NDF : 452459.8/89

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.274 ± 8.118 χ^2/NDF : 17.7/18

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

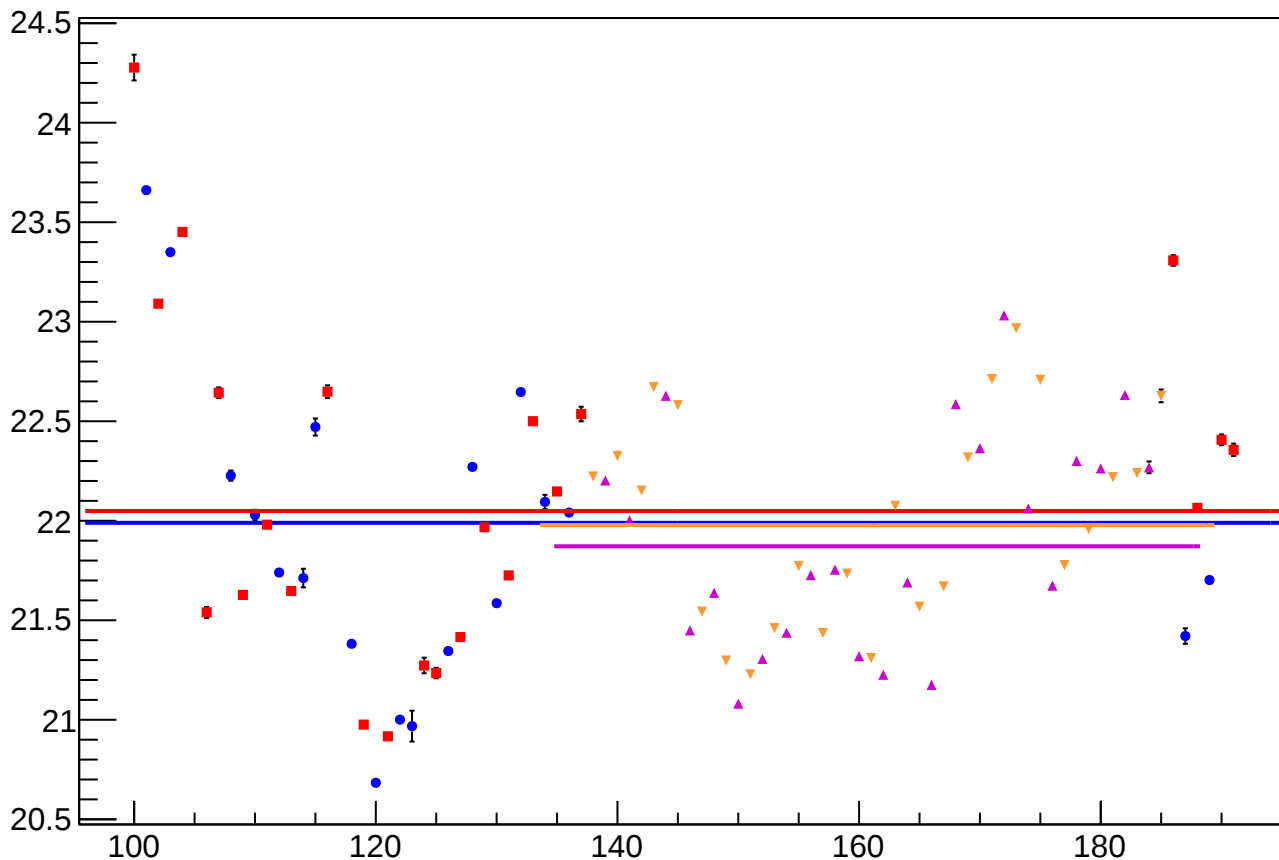
Right: -5.595 ± 5.449 χ^2/NDF : 37.7/41

In: -4.742 ± 4.409 χ^2/NDF : 37.2/41

Out: -7.978 ± 4.202 χ^2/NDF : 56.8/47

All: -6.438 ± 3.042 χ^2/NDF : 94.3/89

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.990 $\pm$ 0.006 χ^2 /NDF: 17796.6/18

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

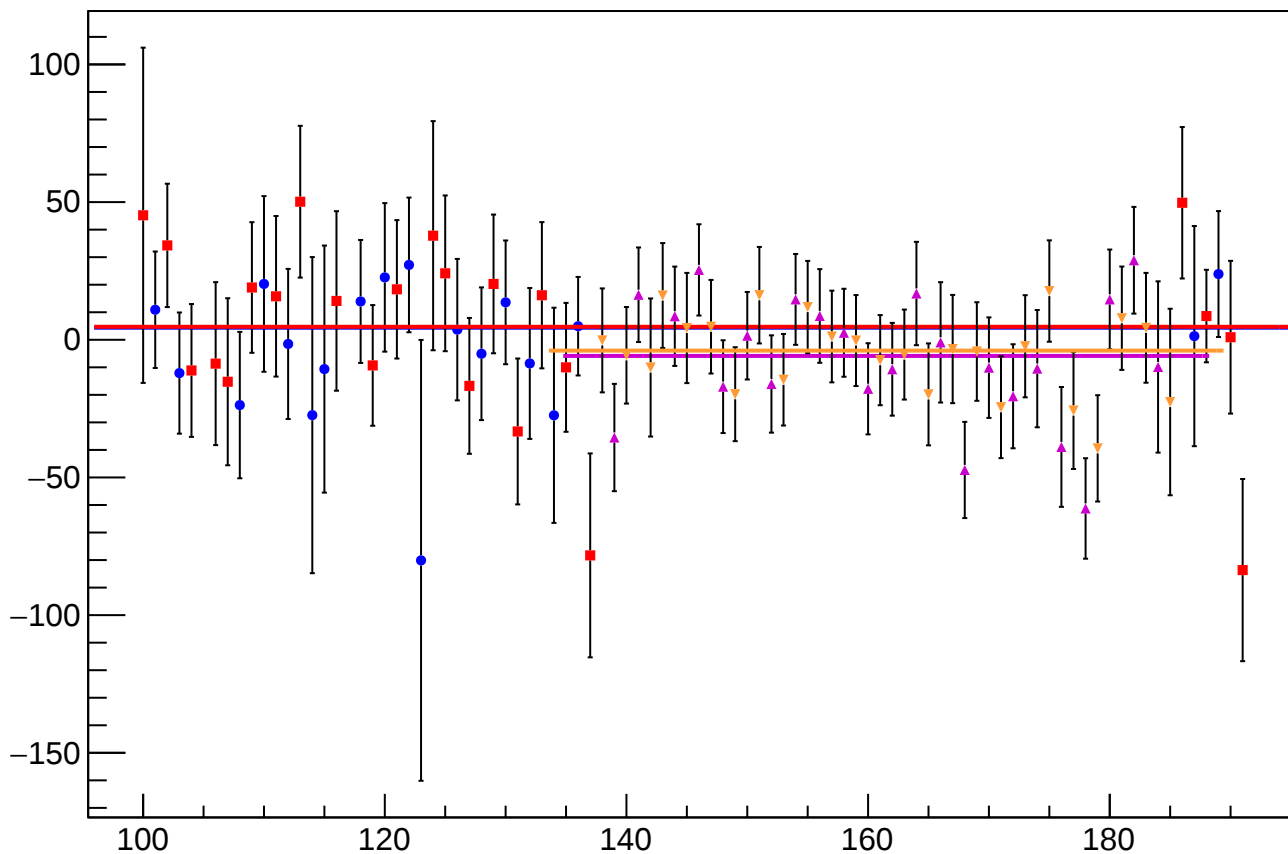
Right: 22.022 $\pm$ 0.004 χ^2 /NDF: 36982.4/41

In: 21.907 $\pm$ 0.003 χ^2 /NDF: 38618.8/41

Out: 22.001 $\pm$ 0.003 χ^2 /NDF: 38681.6/47

All: 21.956 $\pm$ 0.002 χ^2 /NDF: 77786.0/89

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.396 ± 6.095 $\chi^2/\text{NDF}: 7.1/18$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: 4.718 ± 5.537 $\chi^2/\text{NDF}: 27.1/22$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

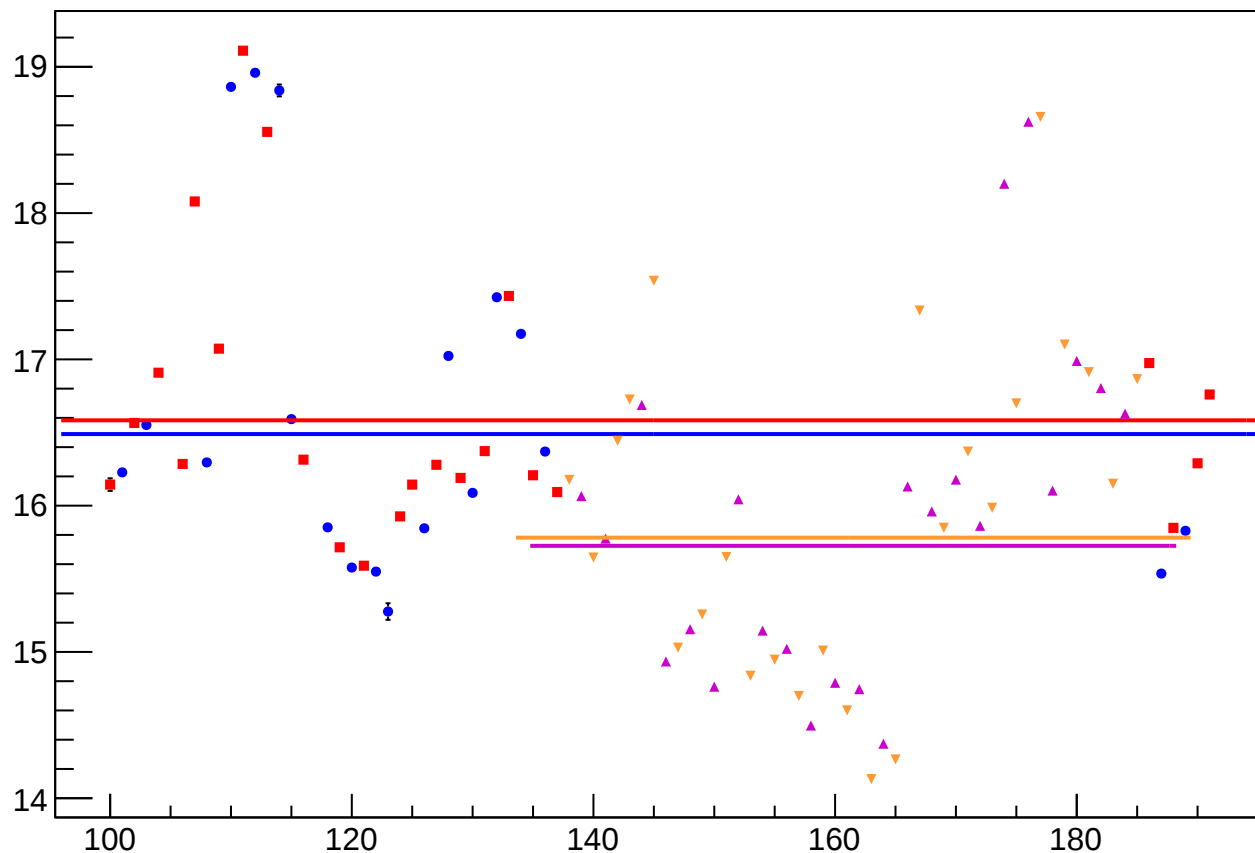
Right: 4.573 ± 4.098 $\chi^2/\text{NDF}: 34.1/41$

In: -3.004 ± 3.217 $\chi^2/\text{NDF}: 45.3/41$

Out: -1.271 ± 3.069 $\chi^2/\text{NDF}: 42.7/47$

All: -2.097 ± 2.221 $\chi^2/\text{NDF}: 88.2/89$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.489 $\pm$ 0.004 χ^2 /NDF: 47336.8/18

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

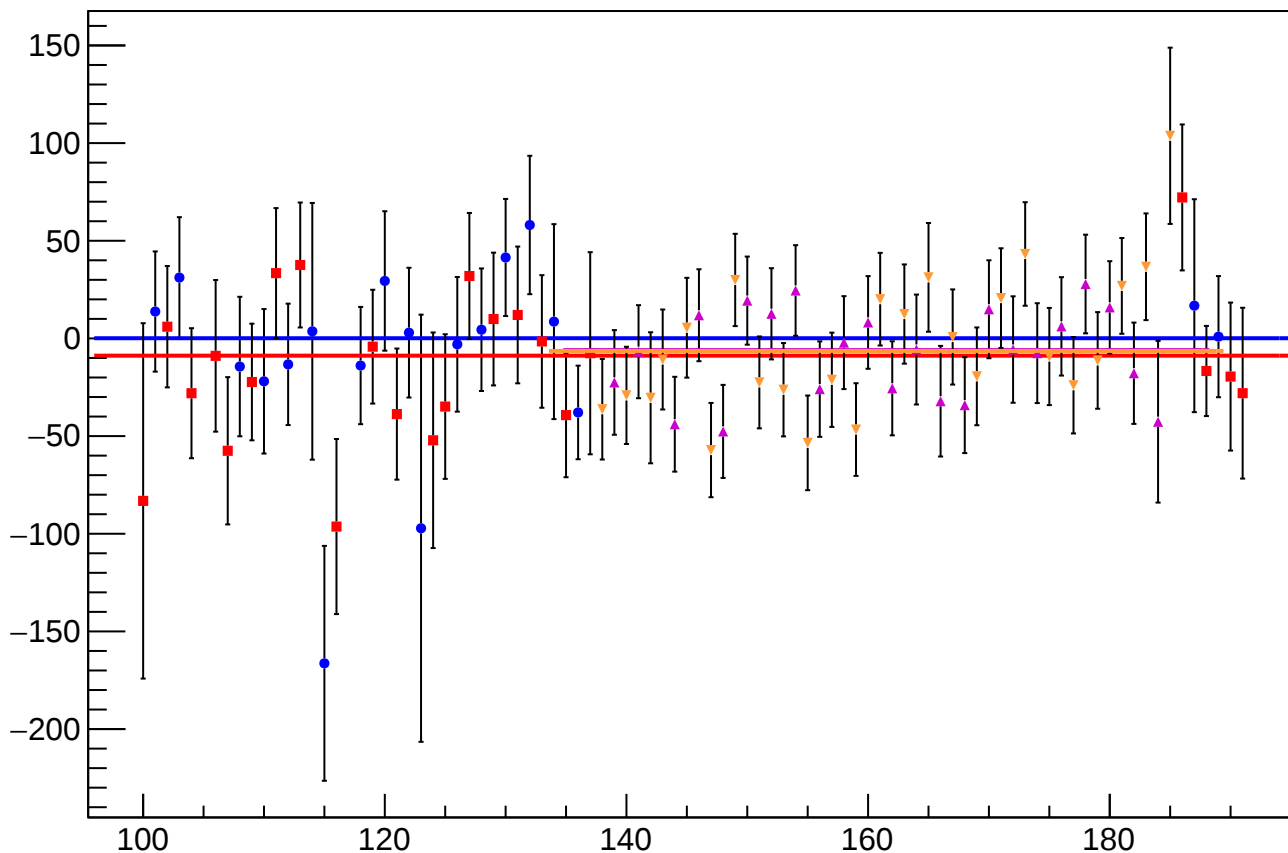
Right: 16.541 $\pm$ 0.003 χ^2 /NDF: 94986.8/41

In: 15.938 $\pm$ 0.002 χ^2 /NDF:215841.9/41

Out: 16.028 $\pm$ 0.002 χ^2 /NDF:249352.6/47

All: 15.985 $\pm$ 0.002 χ^2 /NDF: 466005.8/89

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.104 ± 8.076 $\chi^2/\text{NDF}: 18.5/18$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -8.819 ± 7.306 $\chi^2/\text{NDF}: 20.9/22$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

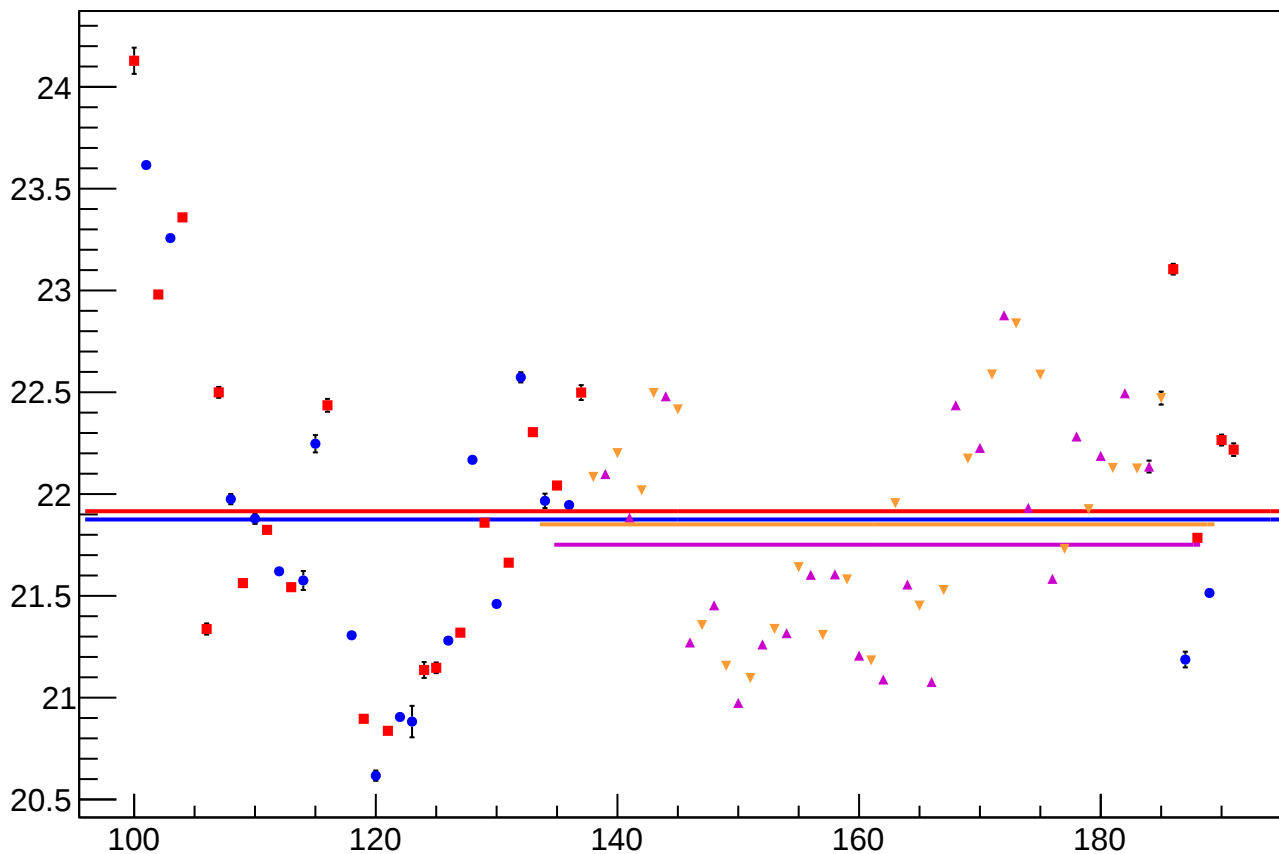
Right: -4.803 ± 5.418 $\chi^2/\text{NDF}: 40.1/41$

In: -4.184 ± 4.385 $\chi^2/\text{NDF}: 37.5/41$

Out: -7.193 ± 4.177 $\chi^2/\text{NDF}: 58.3/47$

All: -5.762 ± 3.025 $\chi^2/\text{NDF}: 96.0/89$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.875 $\pm$ 0.006 χ^2 /NDF: 18284.2/18

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

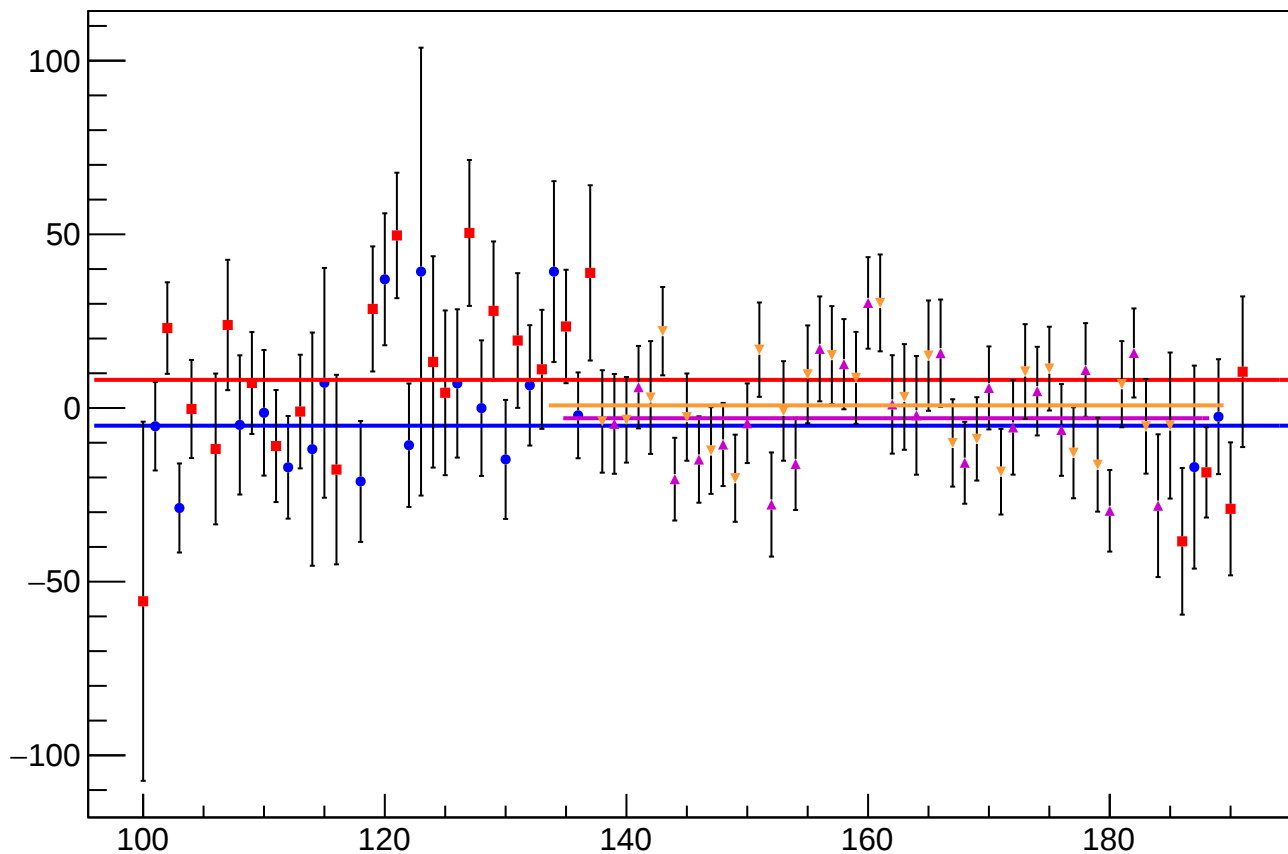
Right: 21.897 $\pm$ 0.004 χ^2 /NDF: 36835.8/41

In: 21.788 $\pm$ 0.003 χ^2 /NDF: 39133.0/41

Out: 21.872 $\pm$ 0.003 χ^2 /NDF: 38260.9/47

All: 21.832 $\pm$ 0.002 χ^2 /NDF: 77783.1/89

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.094 ± 4.150 $\chi^2/\text{NDF}: 15.0/18$

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 $\chi^2/\text{NDF}: 55.7/47$

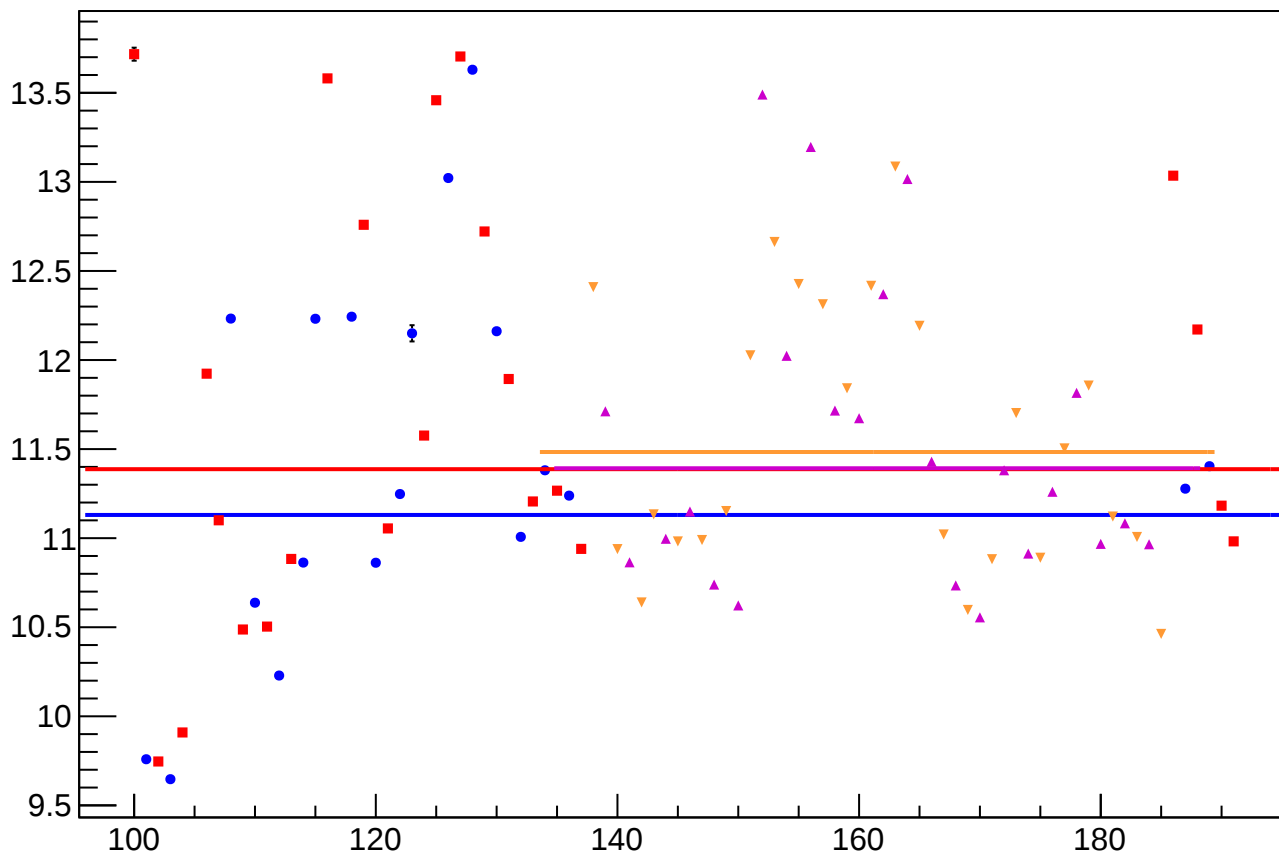
Right: 2.015 ± 2.818 $\chi^2/\text{NDF}: 55.0/41$

In: -3.603 ± 2.297 $\chi^2/\text{NDF}: 46.1/41$

Out: 3.186 ± 2.208 $\chi^2/\text{NDF}: 60.8/47$

All: -0.074 ± 1.592 $\chi^2/\text{NDF}: 111.4/89$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.130 $\pm$ 0.003 χ^2 /NDF: 133245.0/18

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

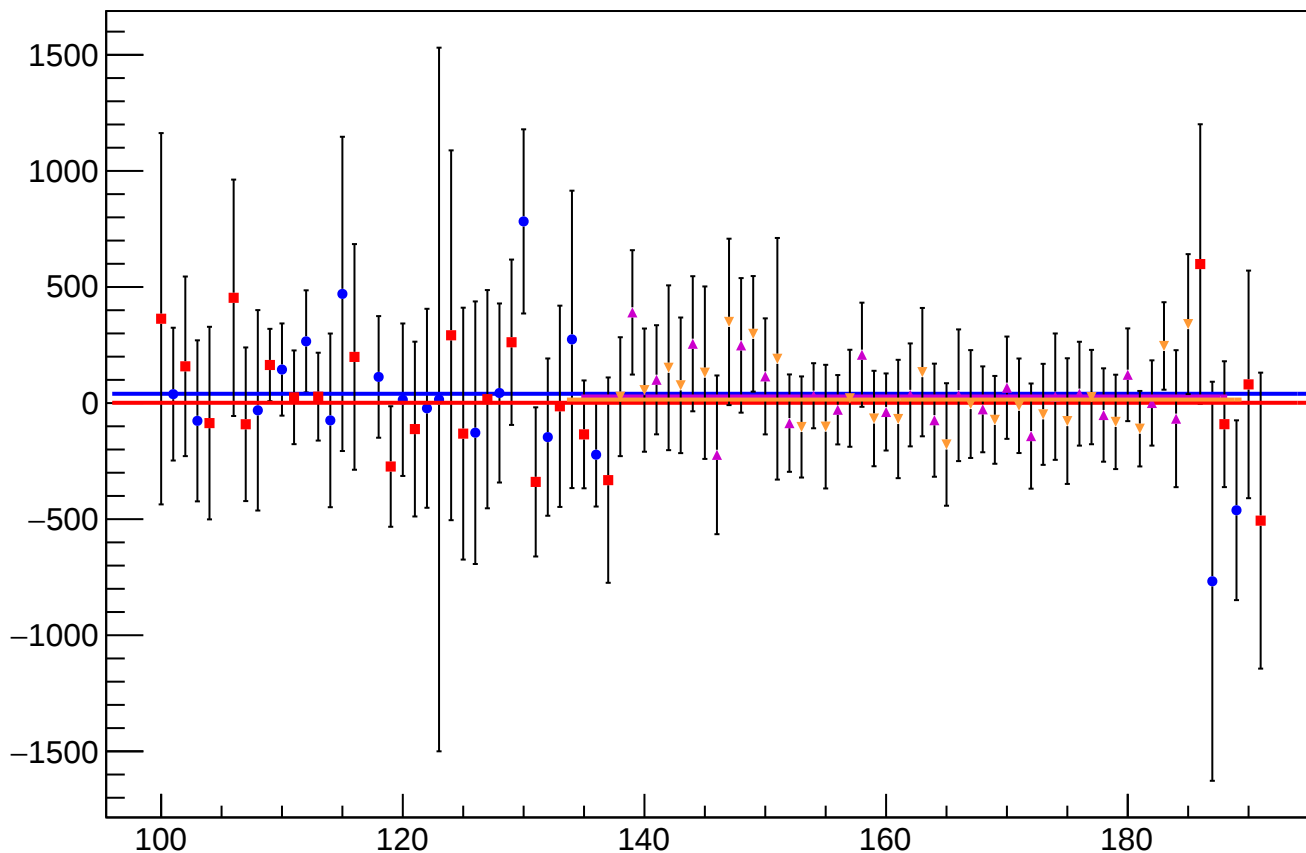
Right: 11.269 $\pm$ 0.002 χ^2 /NDF: 307956.3/41

In: 11.312 $\pm$ 0.002 χ^2 /NDF:289271.3/41

Out: 11.452 $\pm$ 0.002 χ^2 /NDF:301229.0/47

All: 11.385 $\pm$ 0.001 χ^2 /NDF: 594346.9/89

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 40.097+/-77.511 χ^2/NDF : 10.0/18

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

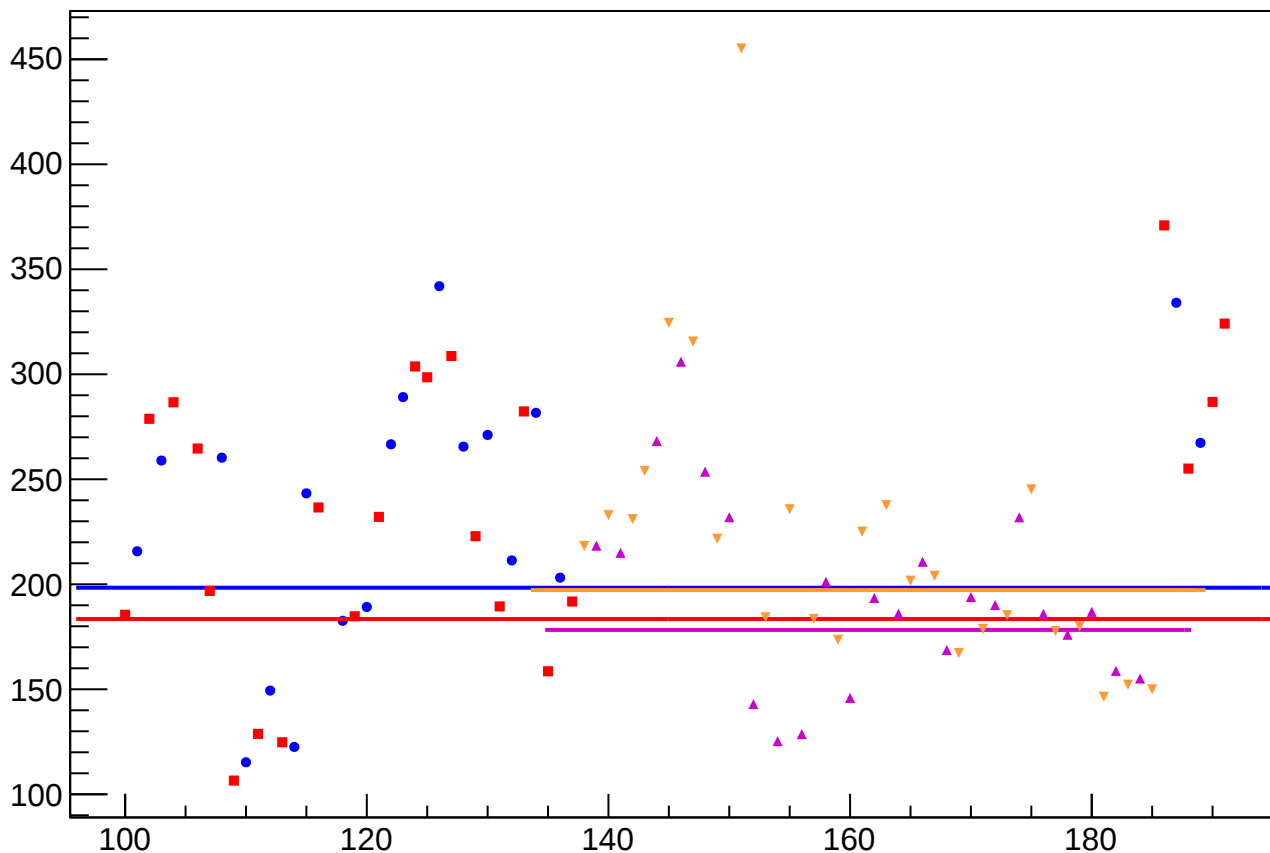
Right: 17.748+/-50.483 χ^2/NDF : 18.5/41

In: 31.404+/-38.785 χ^2/NDF : 16.5/41

Out: 10.428+/-38.768 χ^2/NDF : 16.3/47

All: 20.912+/-27.419 χ^2/NDF : 32.9/89

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 198.362 $\pm$ 0.055 χ^2/NDF : 1124790.4/18

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

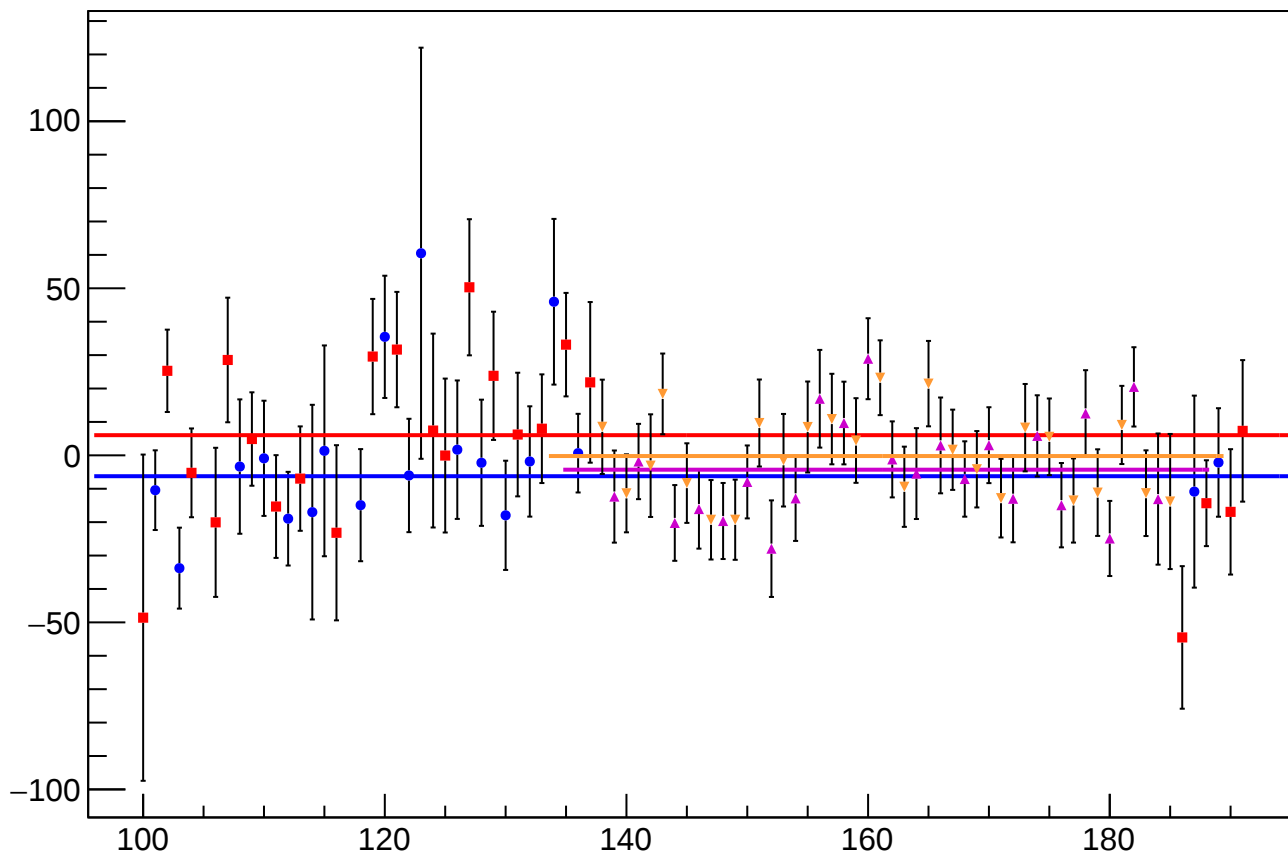
Right: 189.785 $\pm$ 0.036 χ^2/NDF : 3301807.7/41

In: 183.306 $\pm$ 0.027 χ^2/NDF : 2854370.1/41

Out: 192.569 $\pm$ 0.027 χ^2/NDF : 3977987.0/47

All: 187.940 $\pm$ 0.019 χ^2/NDF : 6889426.7/89

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.248 ± 3.972 χ^2/NDF : 18.7/18

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

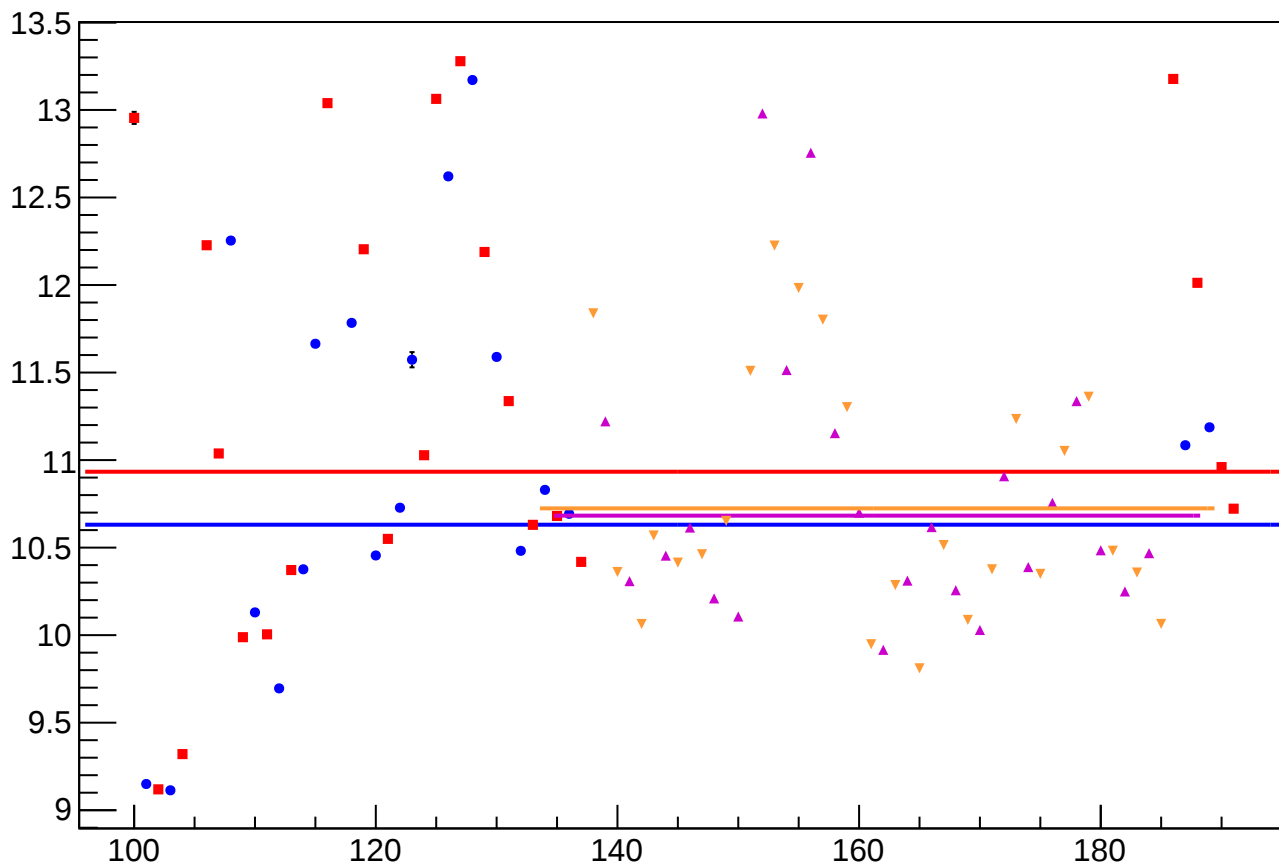
Right: 0.337 ± 2.705 χ^2/NDF : 60.2/41

In: -4.879 ± 2.169 χ^2/NDF : 50.4/41

Out: 1.776 ± 2.084 χ^2/NDF : 62.9/47

All: -1.418 ± 1.503 χ^2/NDF : 118.2/89

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.631+/-0.003 χ^2/NDF : 162902.9/18

Left Out: 10.724+/-0.002 χ^2/NDF : 132558.9/24

Right Out: 10.933+/-0.003 χ^2/NDF : 218412.5/22

Left In: 10.683+/-0.002 χ^2/NDF : 147835.6/22

Left: 10.704+/-0.001 χ^2/NDF : 280658.8/47

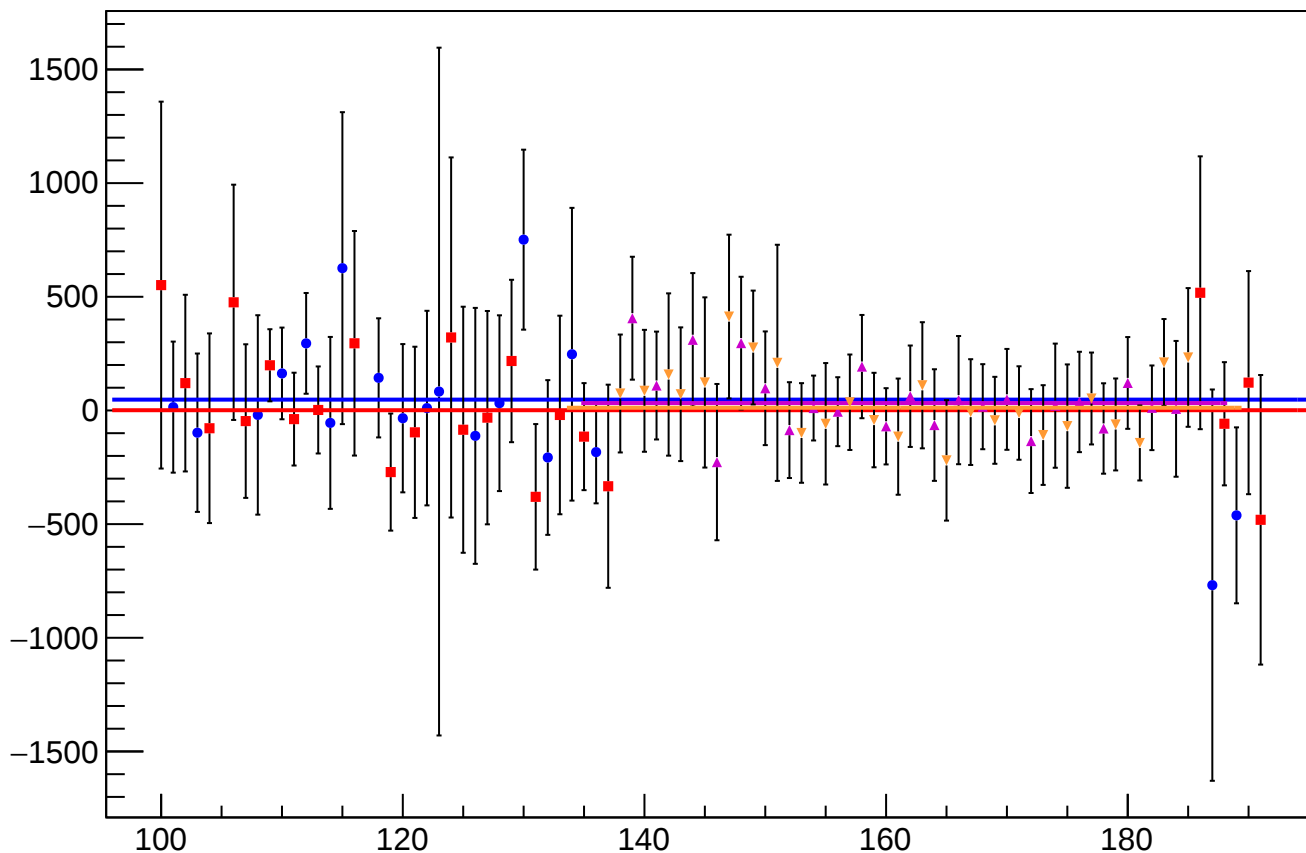
Right: 10.793+/-0.002 χ^2/NDF : 387540.6/41

In: 10.667+/-0.002 χ^2/NDF : 310976.8/41

Out: 10.791+/-0.001 χ^2/NDF : 355348.2/47

All: 10.731+/-0.001 χ^2/NDF : 669701.7/89

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 47.615 $\pm$ 77.992 χ^2 /NDF: 10.3/18

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

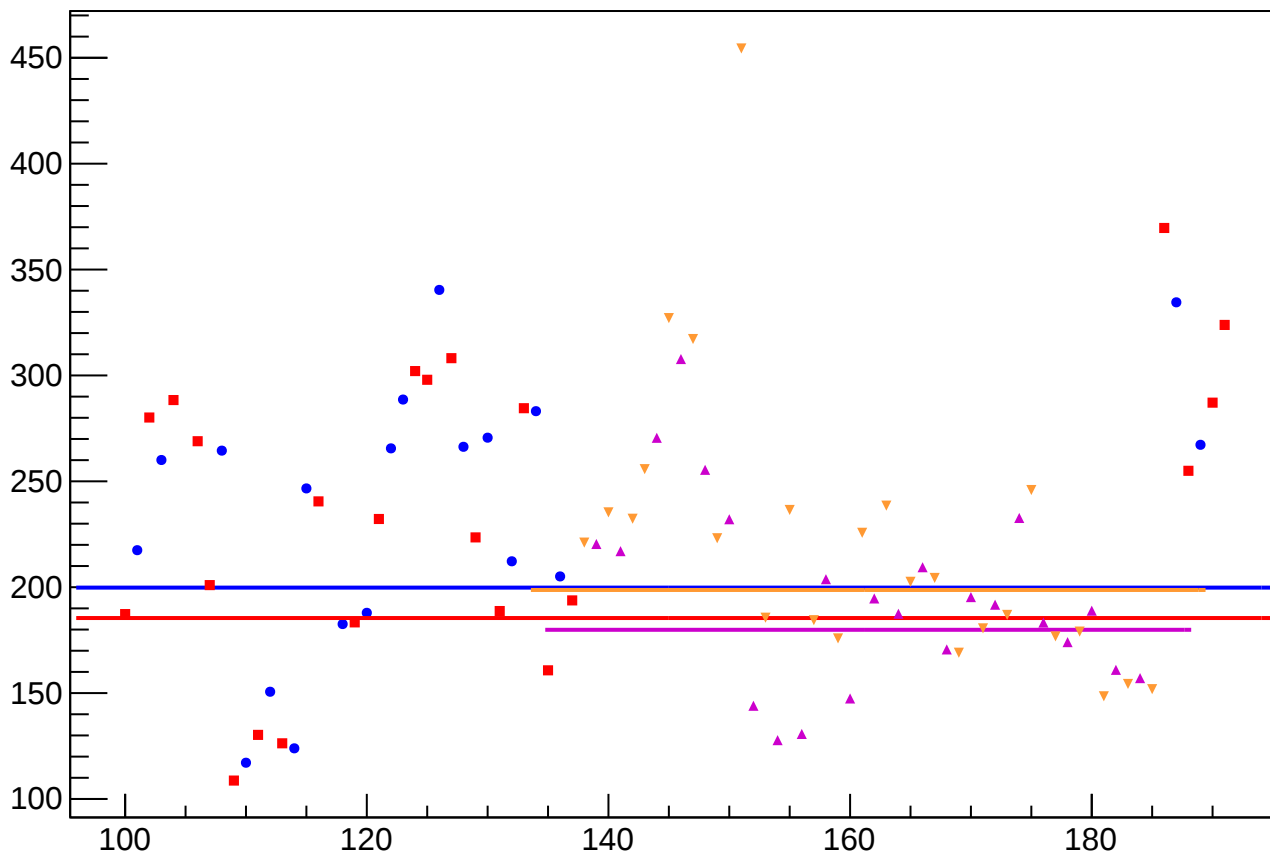
Right: 20.852 $\pm$ 50.864 χ^2 /NDF: 19.3/41

In: 36.229 $\pm$ 39.078 χ^2 /NDF:17.3/41

Out: 8.217 $\pm$ 39.051 χ^2 /NDF:16.5/47

All: 22.213 $\pm$ 27.623 χ^2 /NDF: 34.0/89

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 199.809 $\pm$ 0.055 χ^2 /NDF: 1095770.1/18

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

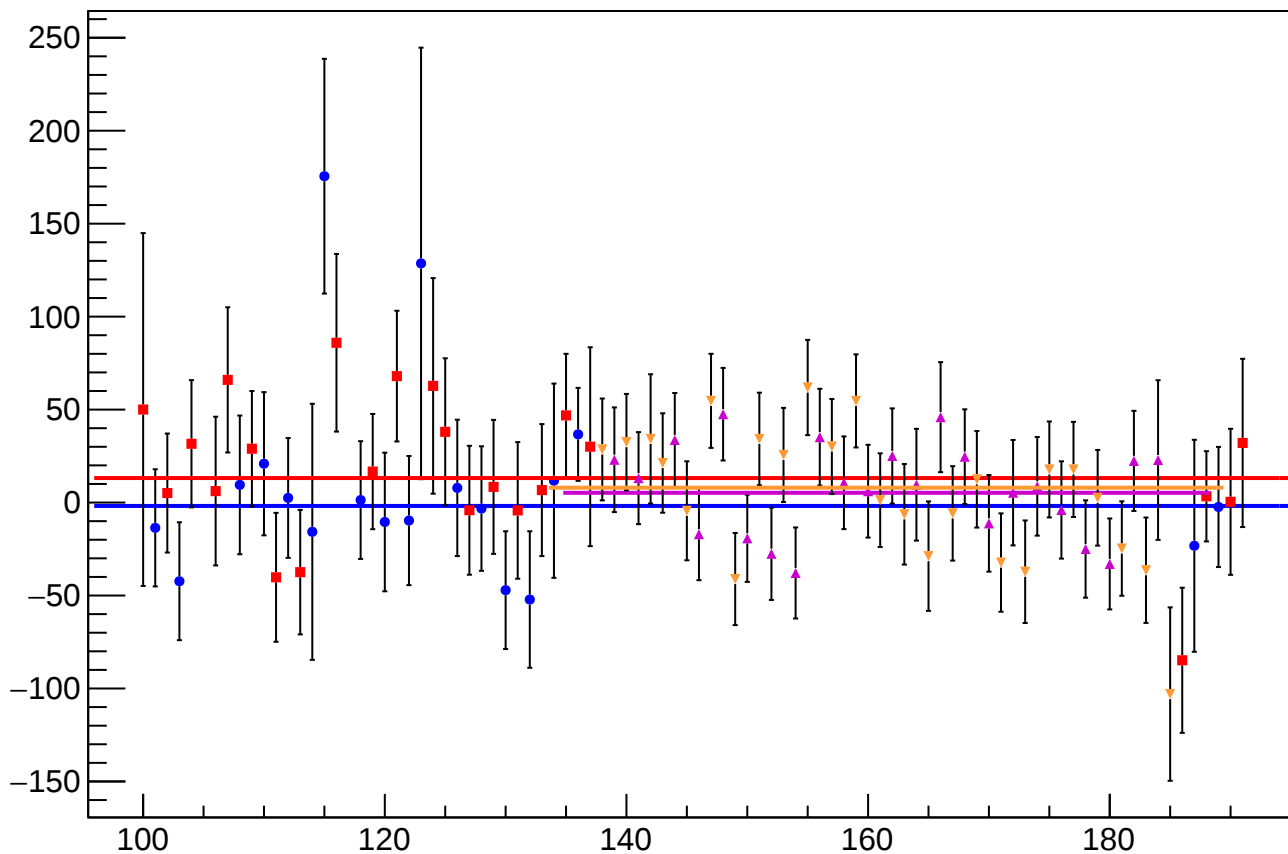
Right: 191.554 $\pm$ 0.036 χ^2 /NDF: 3208499.4/41

In: 184.888 $\pm$ 0.028 χ^2 /NDF: 2774143.0/41

Out: 194.206 $\pm$ 0.028 χ^2 /NDF: 3884634.5/47

All: 189.550 $\pm$ 0.020 χ^2 /NDF: 6715682.4/89

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.818 ± 8.438 χ^2/NDF : 18.1/18

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

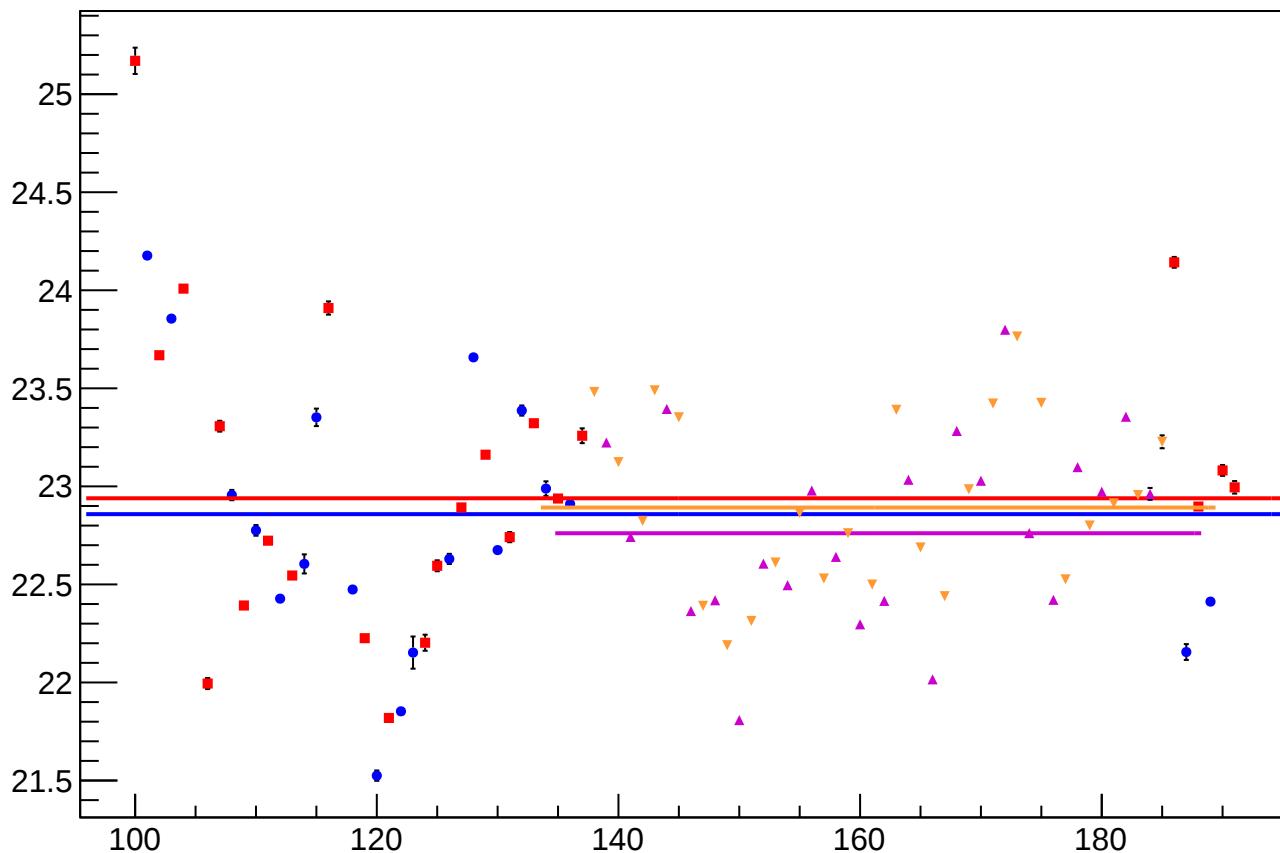
Right: 6.420 ± 5.666 χ^2/NDF : 41.4/41

In: 3.169 ± 4.587 χ^2/NDF : 39.4/41

Out: 9.700 ± 4.375 χ^2/NDF : 59.3/47

All: 6.589 ± 3.166 χ^2/NDF : 99.8/89

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.858 $\pm$ 0.006 χ^2 /NDF: 13020.9/18

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

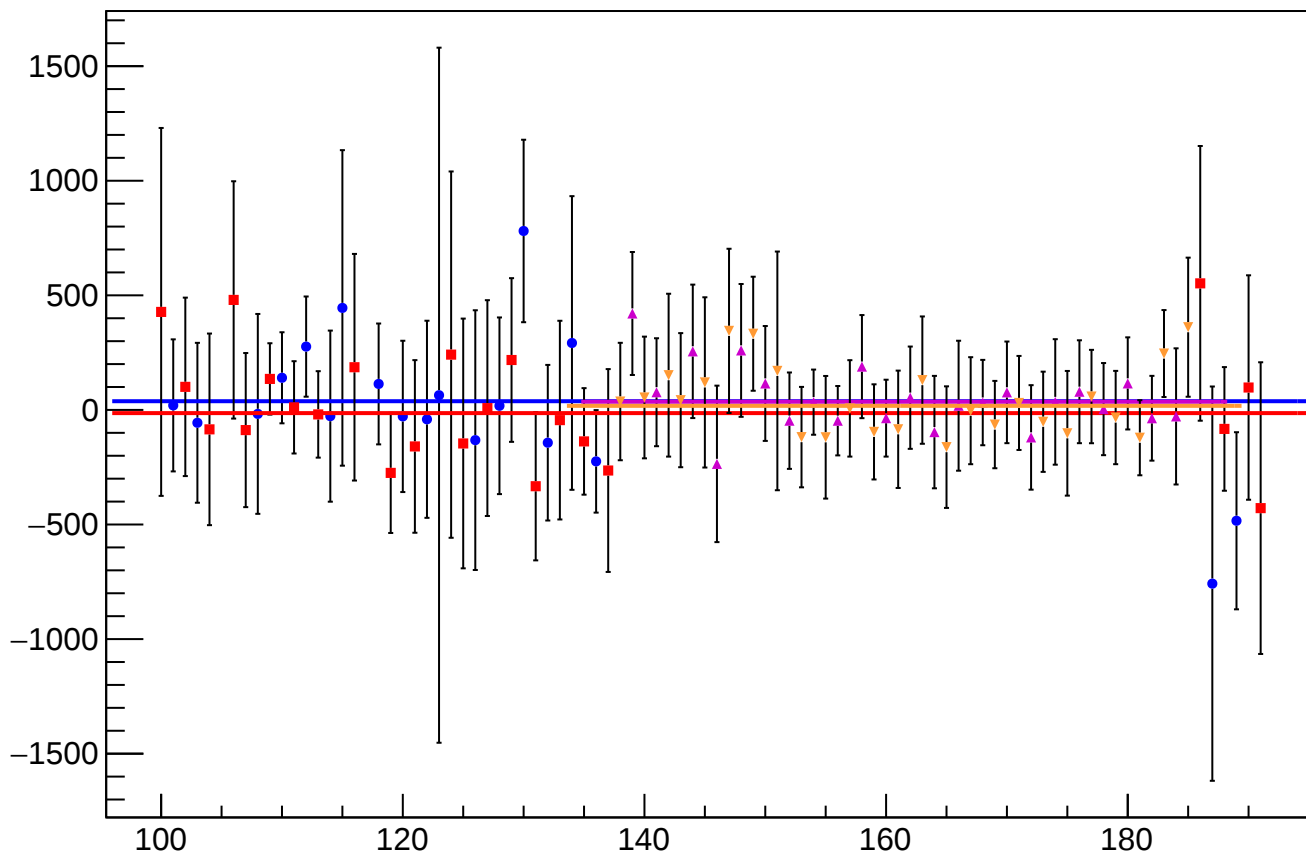
Right: 22.903 $\pm$ 0.004 χ^2 /NDF: 26255.9/41

In: 22.790 $\pm$ 0.003 χ^2 /NDF:27758.4/41

Out: 22.907 $\pm$ 0.003 χ^2 /NDF:26181.1/47

All: 22.851 $\pm$ 0.002 χ^2 /NDF: 54629.0/89

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 37.990 ± 77.668 $\chi^2/\text{NDF}: 10.2/18$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -13.906 ± 66.648 $\chi^2/\text{NDF}: 7.2/22$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

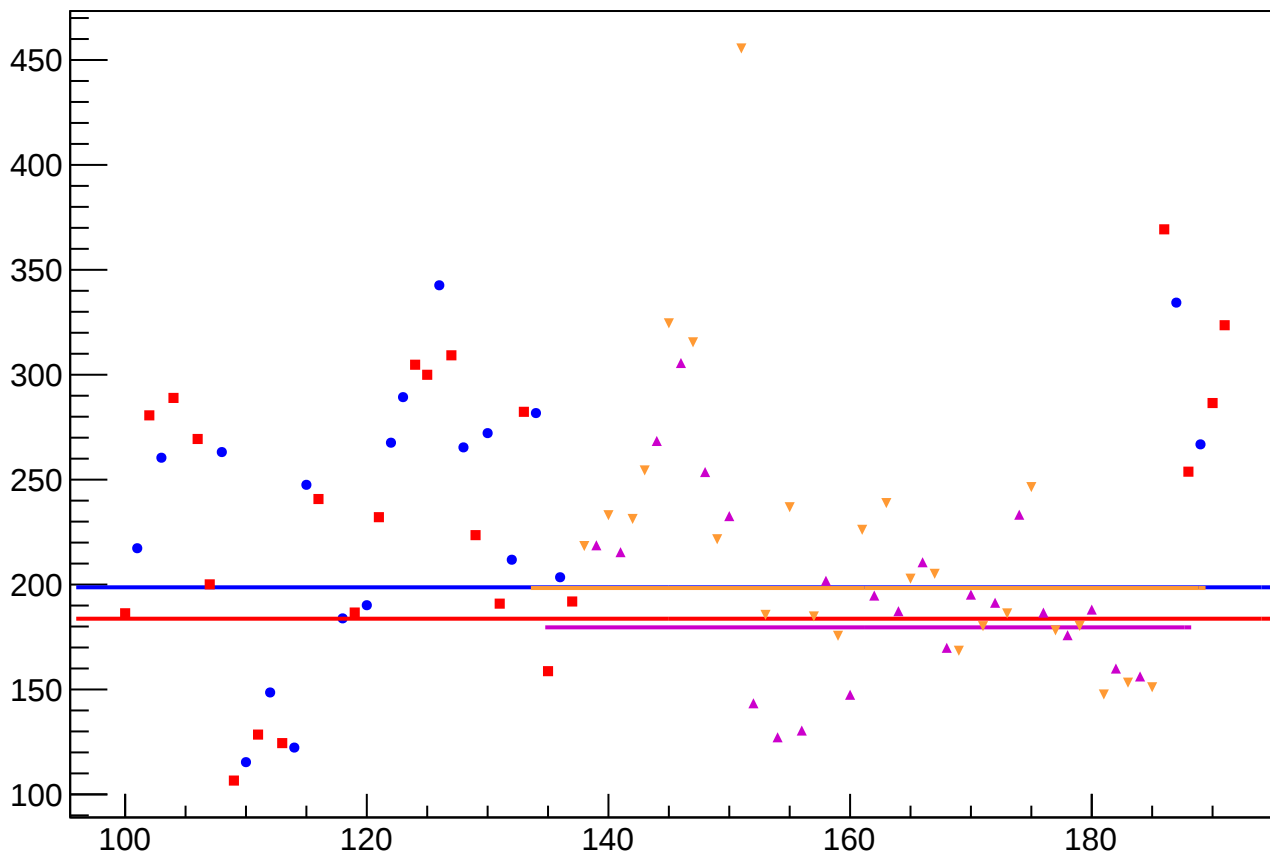
Right: 8.103 ± 50.579 $\chi^2/\text{NDF}: 17.6/41$

In: 36.411 ± 38.993 $\chi^2/\text{NDF}: 16.5/41$

Out: 6.974 ± 38.919 $\chi^2/\text{NDF}: 15.9/47$

All: 21.664 ± 27.546 $\chi^2/\text{NDF}: 32.7/89$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 198.688 $\pm$ 0.055 χ^2 /NDF: 1138096.0/18

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

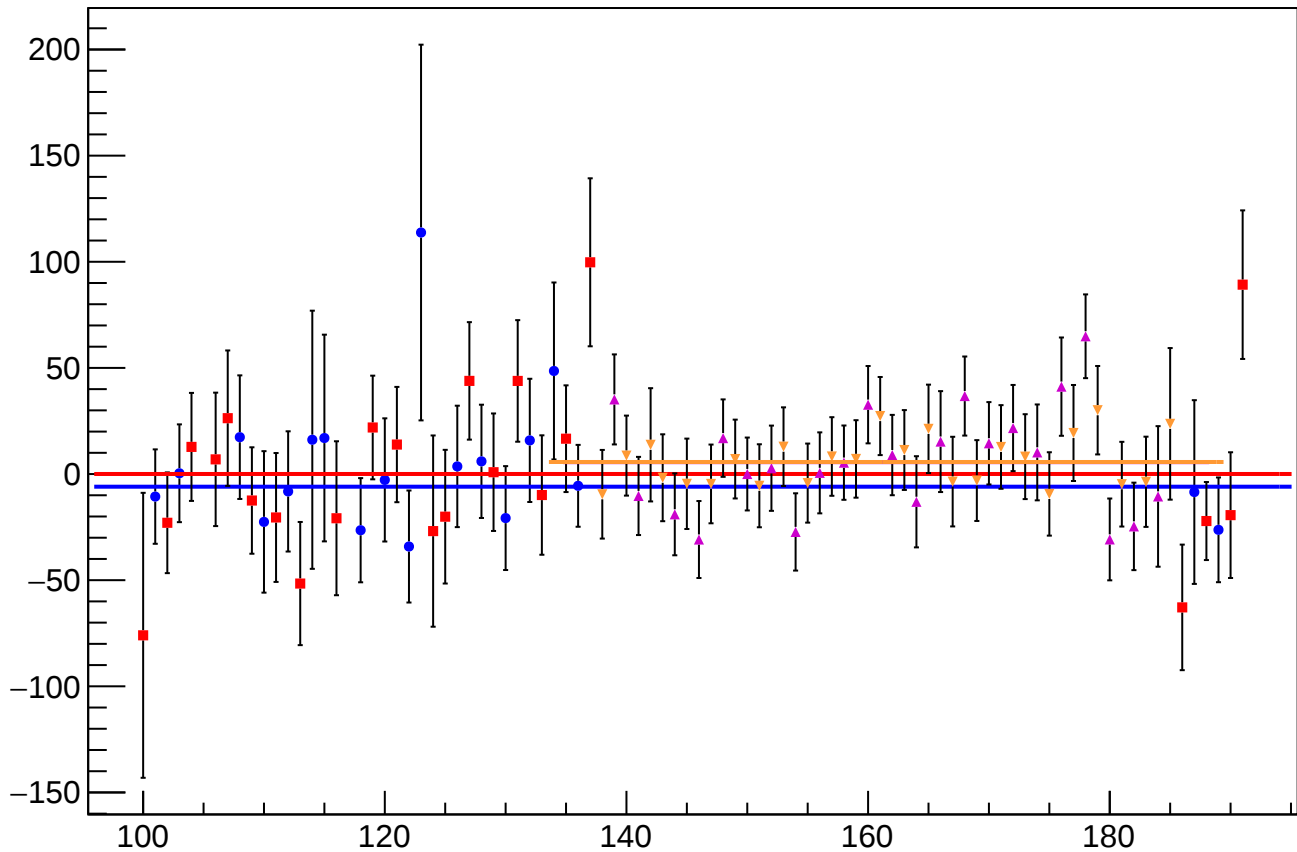
Right: 190.073 $\pm$ 0.036 χ^2 /NDF: 3333738.1/41

In: 184.415 $\pm$ 0.028 χ^2 /NDF: 2804147.6/41

Out: 193.360 $\pm$ 0.028 χ^2 /NDF: 3973739.7/47

All: 188.896 $\pm$ 0.019 χ^2 /NDF: 6830613.9/89

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.962 $\pm$ 6.556 χ^2 /NDF: 8.7/18

Left Out: 5.680 $\pm$ 4.024 χ^2 /NDF:7.7/24

Right Out: 0.029 $\pm$ 5.969 χ^2 /NDF: 33.9/22

Left In: 5.595 $\pm$ 4.121 χ^2 /NDF:36.4/22

Left: 5.639 $\pm$ 2.879 χ^2 /NDF: 44.1/47

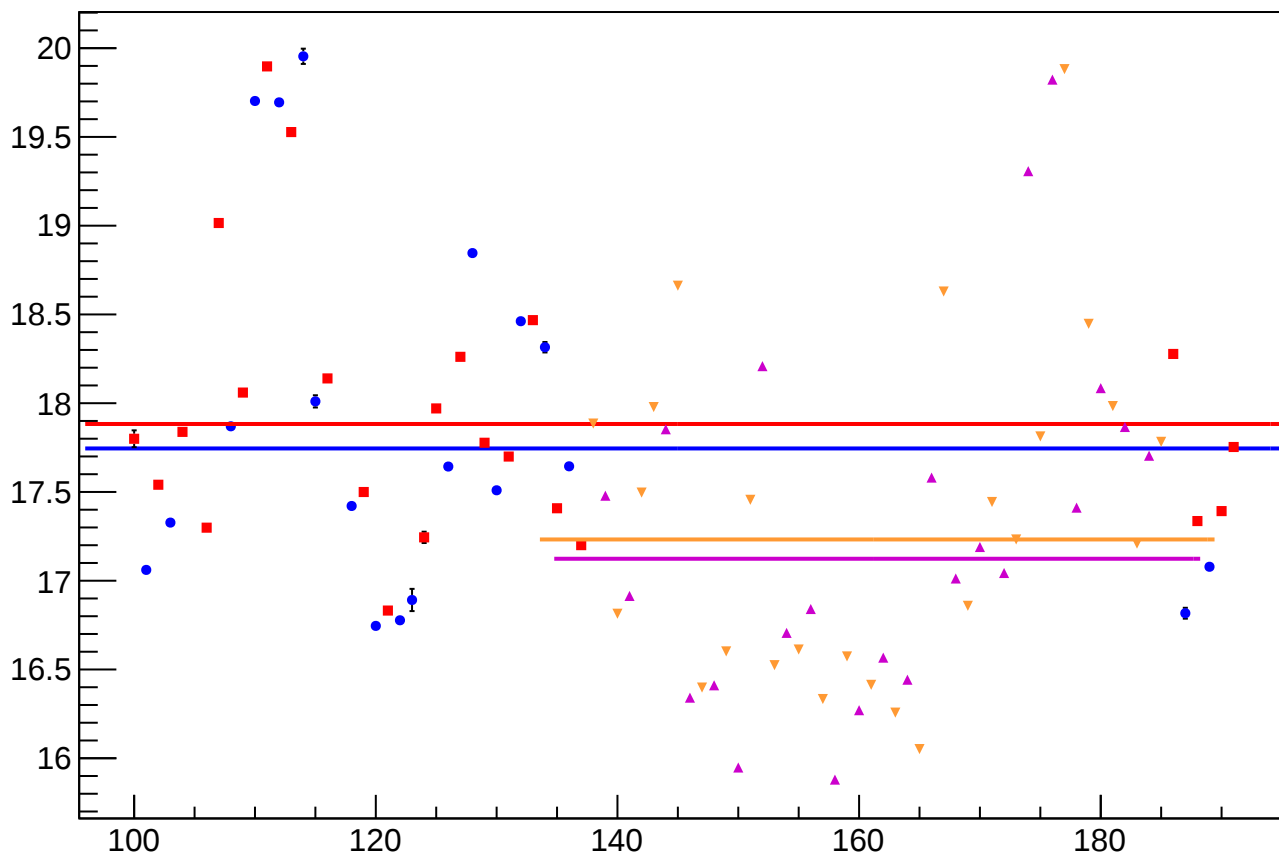
Right: -2.686 $\pm$ 4.414 χ^2 /NDF: 43.0/41

In: 2.322 $\pm$ 3.489 χ^2 /NDF:47.3/41

Out: 3.915 $\pm$ 3.336 χ^2 /NDF:42.3/47

All: 3.154 $\pm$ 2.411 χ^2 /NDF: 89.7/89

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.745 $\pm$ 0.005 χ^2 /NDF: 34903.1/18

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.883 $\pm$ 0.004 χ^2 /NDF: 28327.8/22

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF:100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2 /NDF: 200160.6/47

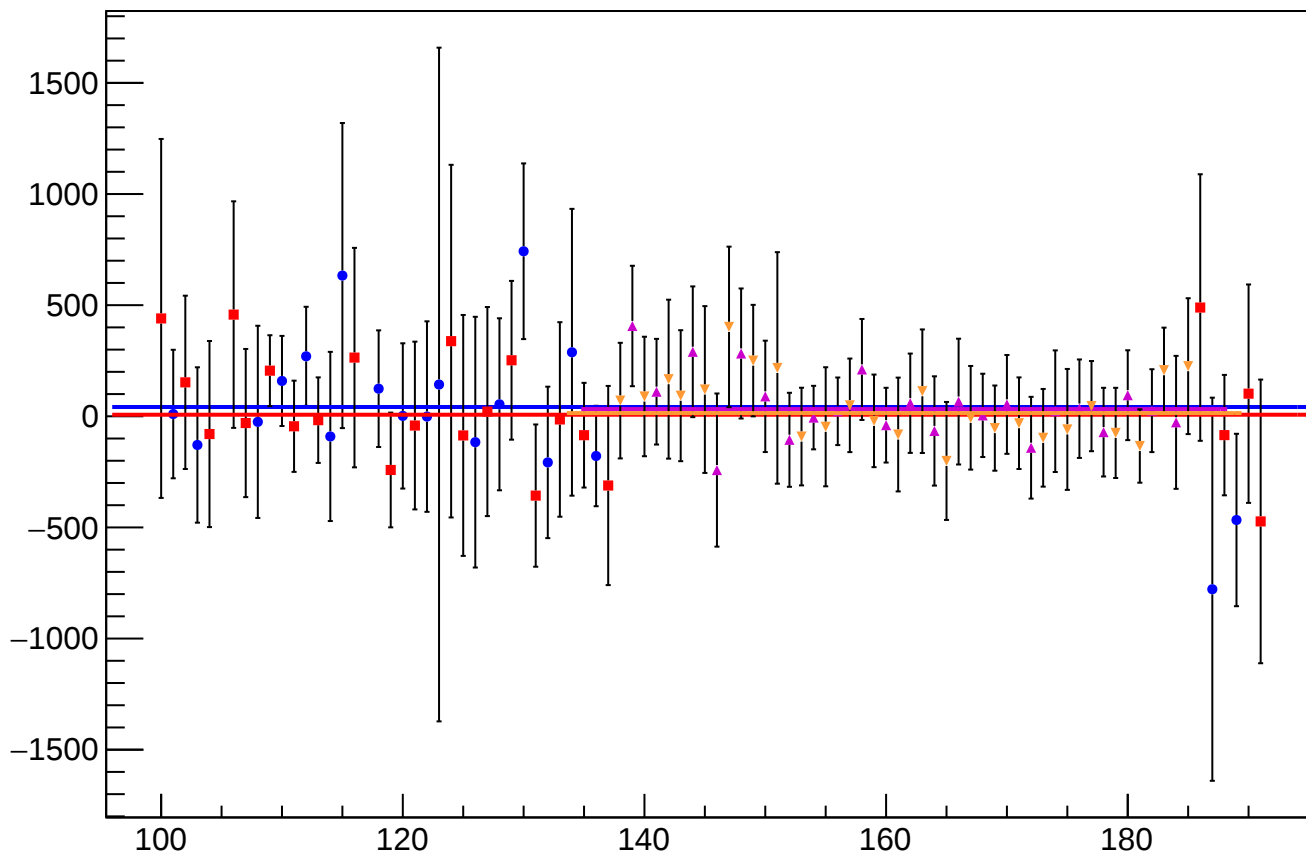
Right: 17.820 $\pm$ 0.003 χ^2 /NDF: 63714.1/41

In: 17.300 $\pm$ 0.002 χ^2 /NDF:148525.4/41

Out: 17.436 $\pm$ 0.002 χ^2 /NDF:143360.2/47

All: 17.371 $\pm$ 0.002 χ^2 /NDF: 293472.3/89

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 41.789 $\pm$ 78.185 χ^2 /NDF: 10.1/18

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

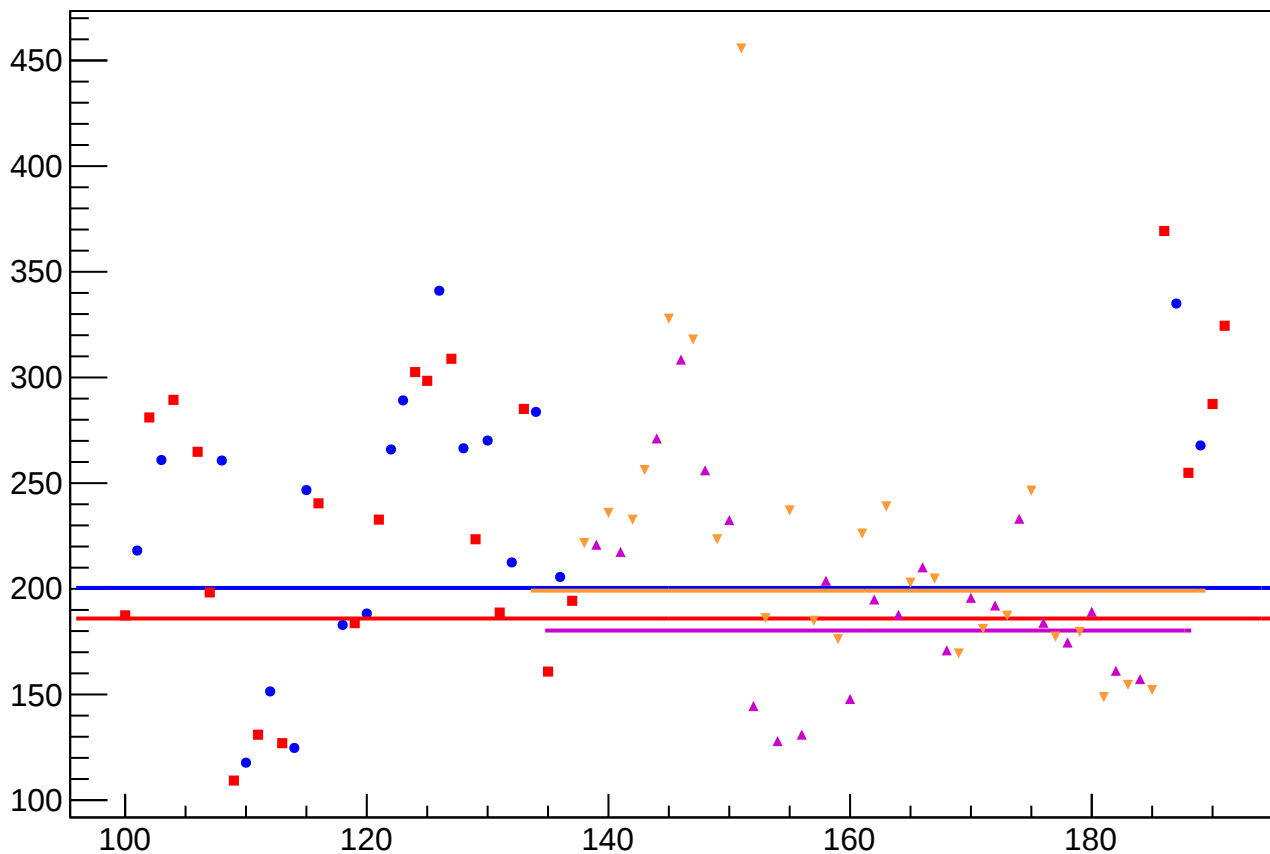
Right: 21.820 $\pm$ 50.976 χ^2 /NDF: 18.3/41

In: 34.884 $\pm$ 39.162 χ^2 /NDF: 16.8/41

Out: 11.886 $\pm$ 39.135 χ^2 /NDF: 15.0/47

All: 23.377 $\pm$ 27.682 χ^2 /NDF: 32.1/89

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 200.414 $\pm$ 0.055 χ^2 /NDF: 1080249.0/18

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

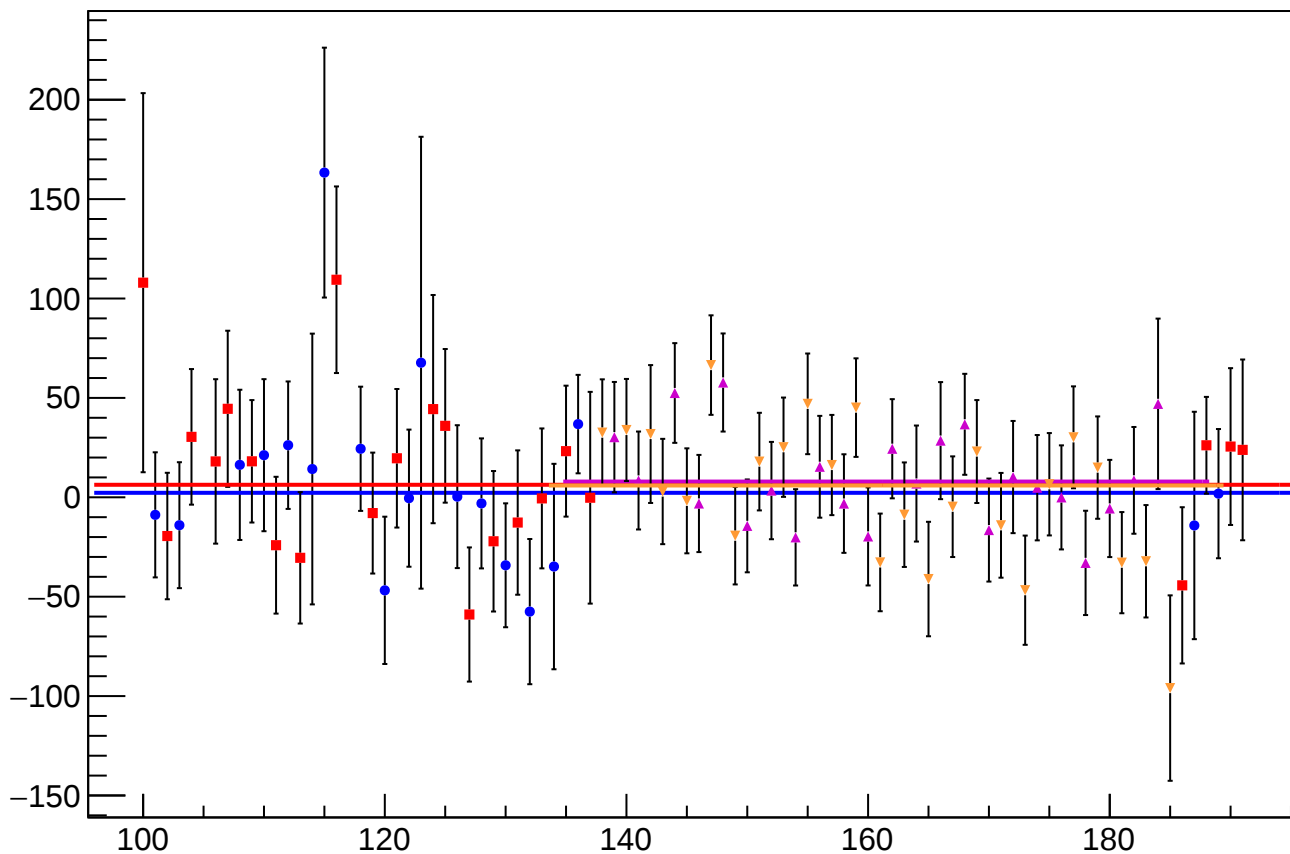
Right: 192.098 $\pm$ 0.036 χ^2 /NDF: 3171098.6/41

In: 185.314 $\pm$ 0.028 χ^2 /NDF:2760389.5/41

Out: 194.667 $\pm$ 0.028 χ^2 /NDF:3862664.6/47

All: 189.994 $\pm$ 0.020 χ^2 /NDF: 6680141.6/89

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.259 ± 8.377 $\chi^2/\text{NDF}: 17.1/18$

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 $\chi^2/\text{NDF}: 54.9/47$

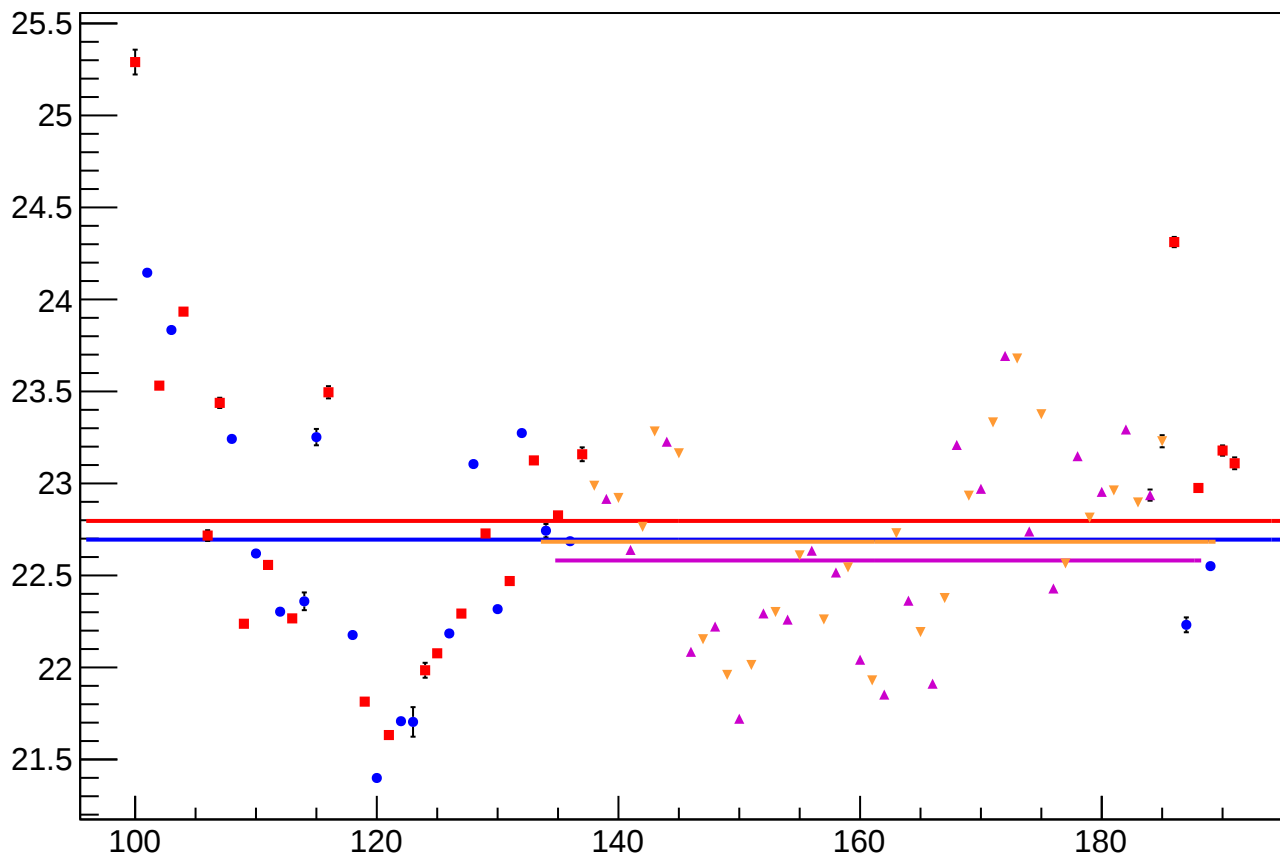
Right: 4.474 ± 5.629 $\chi^2/\text{NDF}: 36.7/41$

In: 6.246 ± 4.552 $\chi^2/\text{NDF}: 36.2/41$

Out: 6.054 ± 4.339 $\chi^2/\text{NDF}: 55.5/47$

All: 6.145 ± 3.141 $\chi^2/\text{NDF}: 91.7/89$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.695 $\pm$ 0.006 χ^2 /NDF: 14240.4/18

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF: 16320.2/24

Right Out: 22.796 $\pm$ 0.005 χ^2 /NDF: 16570.0/22

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF: 17904.5/22

Left: 22.634 $\pm$ 0.003 χ^2 /NDF: 34586.9/47

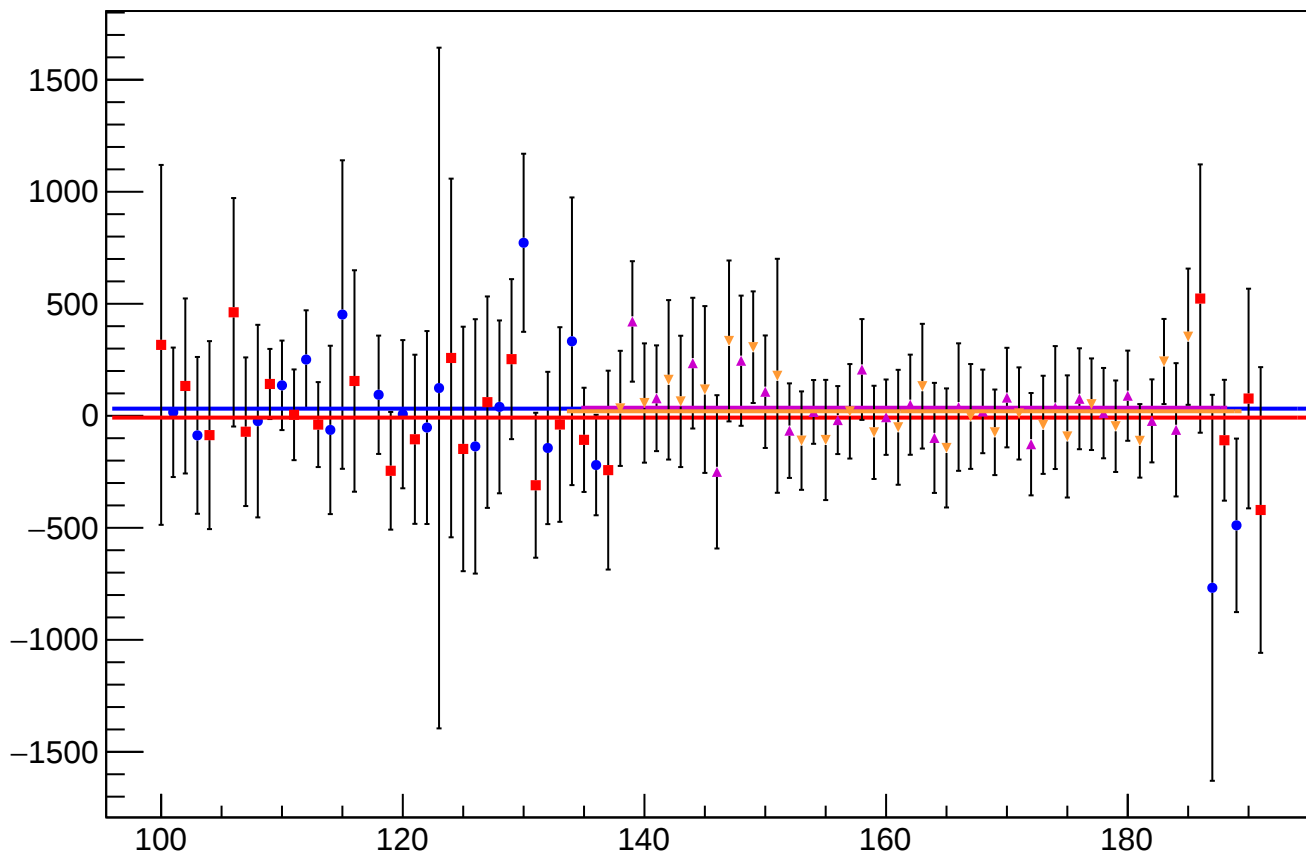
Right: 22.750 $\pm$ 0.004 χ^2 /NDF: 30971.8/41

In: 22.615 $\pm$ 0.003 χ^2 /NDF: 32402.9/41

Out: 22.720 $\pm$ 0.003 χ^2 /NDF: 33188.7/47

All: 22.670 $\pm$ 0.002 χ^2 /NDF: 66152.2/89

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 31.978+/-77.863 χ^2/NDF : 9.9/18

Left Out: 20.306+/-48.049 χ^2/NDF : 7.7/24

Right Out: -8.052+/-66.787 χ^2/NDF : 6.6/22

Left In: 35.996+/-45.180 χ^2/NDF : 6.1/22

Left: 28.633+/-32.915 χ^2/NDF : 13.8/47

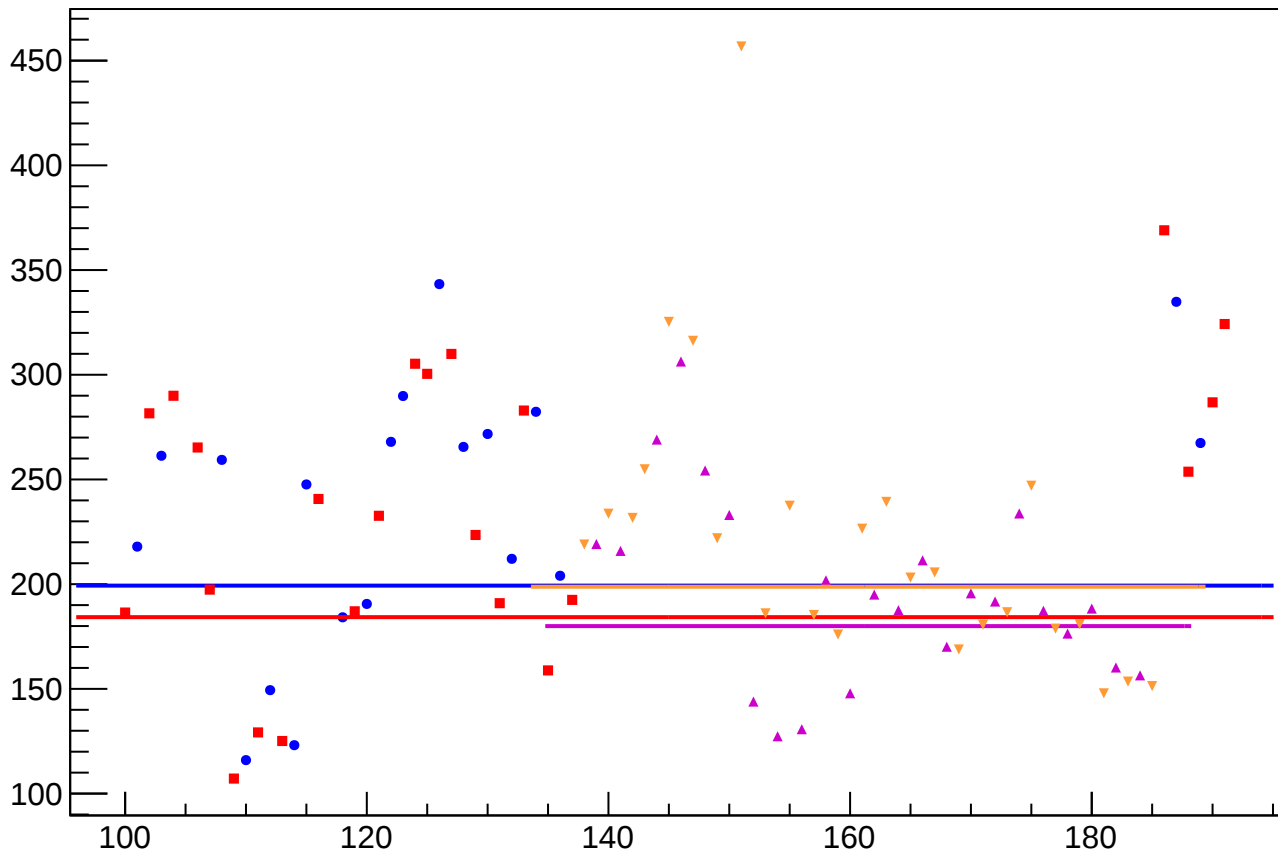
Right: 8.916+/-50.693 χ^2/NDF : 16.7/41

In: 34.984+/-39.078 χ^2/NDF : 16.0/41

Out: 10.634+/-39.004 χ^2/NDF : 14.4/47

All: 22.786+/-27.606 χ^2/NDF : 30.6/89

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 199.305 $\pm$ 0.055 χ^2 /NDF: 1121840.0/18

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

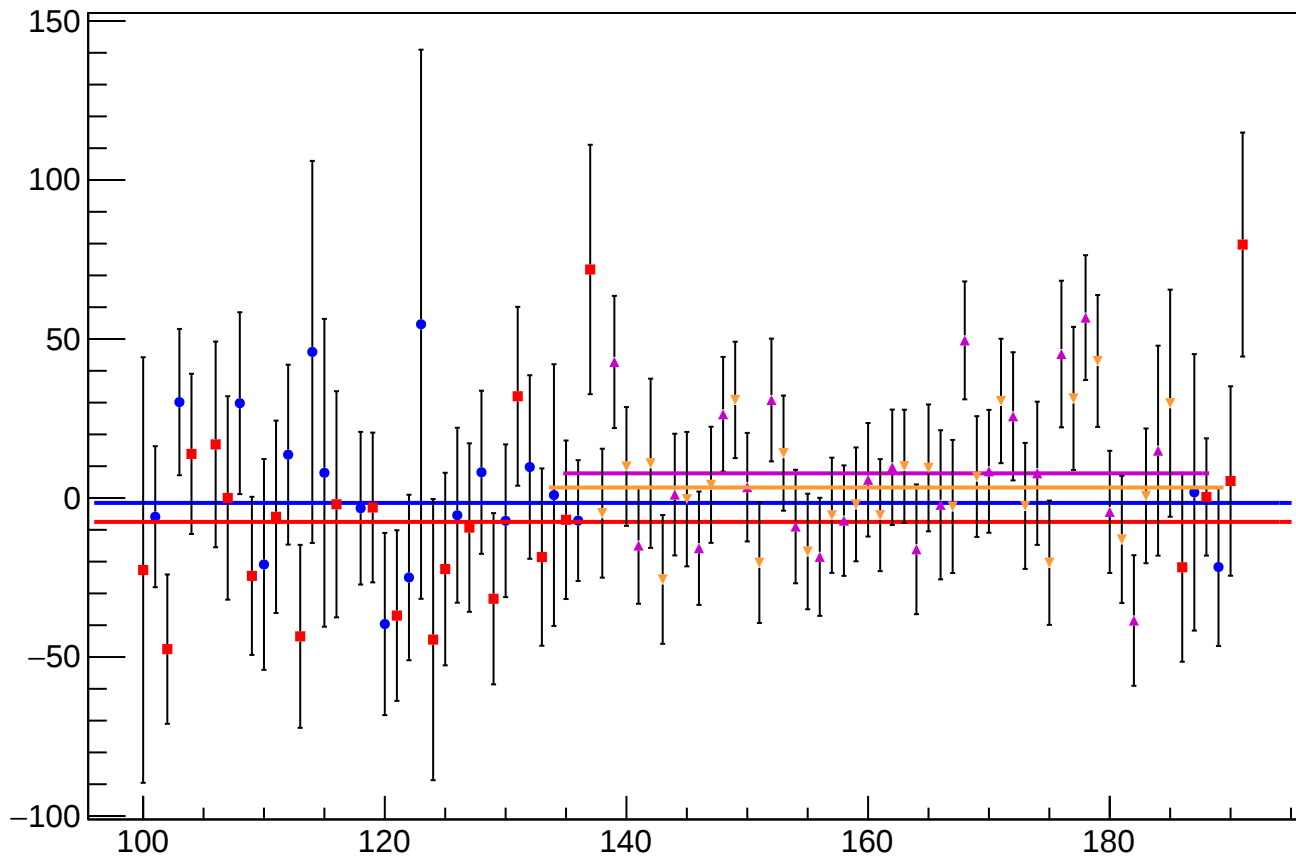
Right: 190.631 $\pm$ 0.036 χ^2 /NDF: 3294496.5/41

In: 184.842 $\pm$ 0.028 χ^2 /NDF:2789969.7/41

Out: 193.827 $\pm$ 0.028 χ^2 /NDF:3950476.5/47

All: 189.343 $\pm$ 0.020 χ^2 /NDF: 6793414.0/89

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.537 ± 6.473 χ^2/NDF : 8.6/18

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

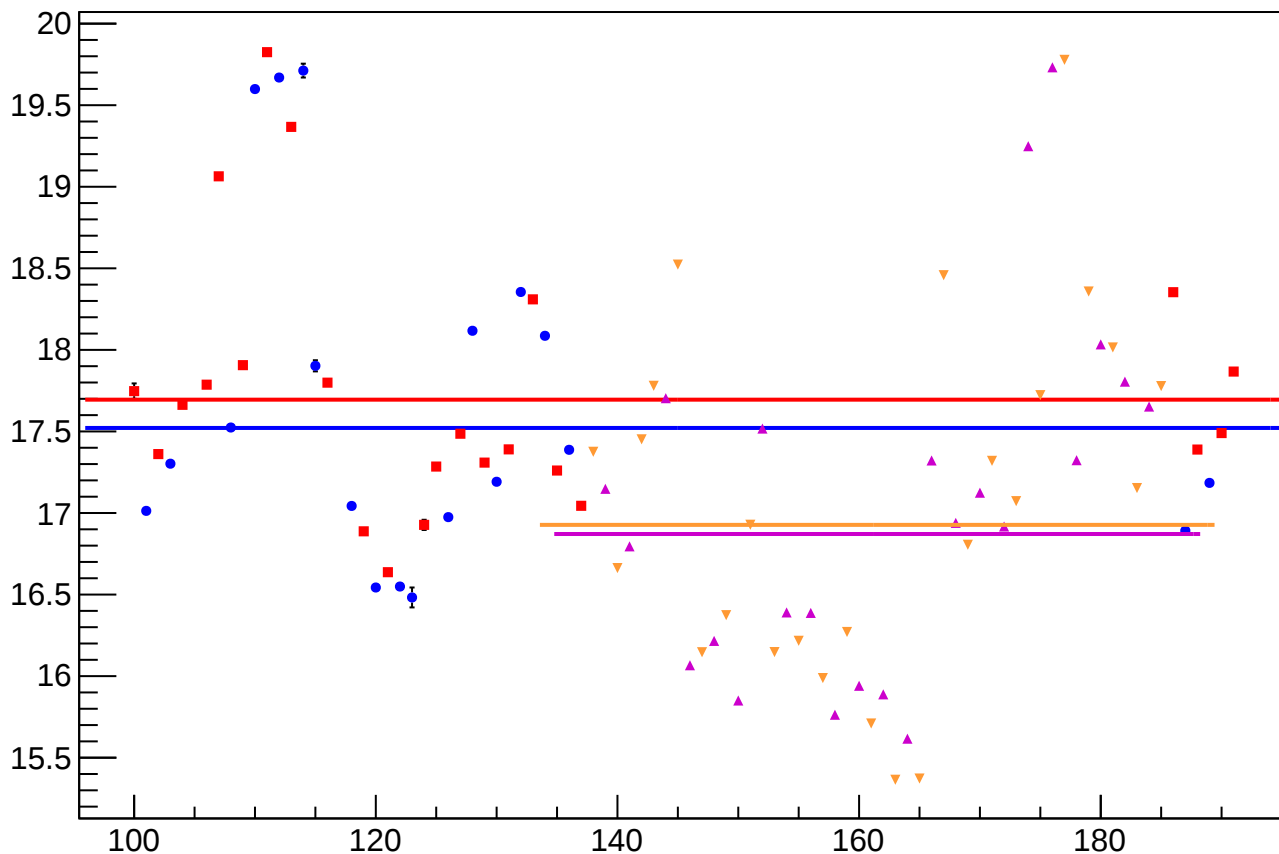
Right: -4.799 ± 4.362 χ^2/NDF : 31.3/41

In: 5.132 ± 3.440 χ^2/NDF : 44.3/41

Out: -0.042 ± 3.285 χ^2/NDF : 43.3/47

All: 2.426 ± 2.376 χ^2/NDF : 88.8/89

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.521+/-0.005 χ^2/NDF : 34795.8/18

Left Out: 16.927+/-0.003 χ^2/NDF :138533.2/24

Right Out: 17.695+/-0.004 χ^2/NDF : 31934.0/22

Left In: 16.871+/-0.003 χ^2/NDF :117993.8/22

Left: 16.900+/-0.002 χ^2/NDF : 256722.4/47

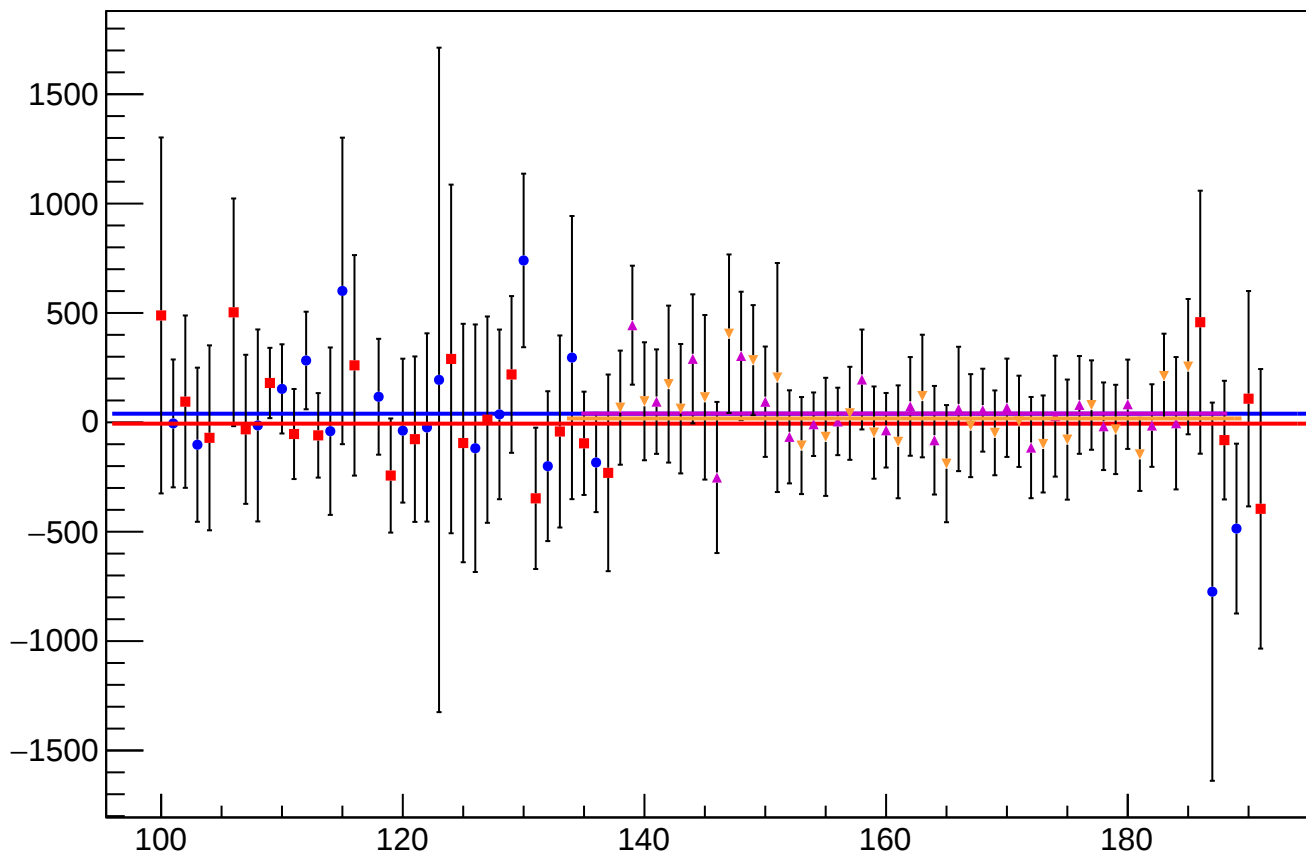
Right: 17.616+/-0.003 χ^2/NDF : 67513.2/41

In: 17.055+/-0.002 χ^2/NDF :167268.1/41

Out: 17.165+/-0.002 χ^2/NDF :193798.2/47

All: 17.112+/-0.002 χ^2/NDF : 362135.3/89

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 39.483+/-78.621 χ^2/NDF : 10.1/18

Left Out: 17.828+/-48.547 χ^2/NDF : 7.5/24

Right Out: -5.987+/-67.662 χ^2/NDF : 7.2/22

Left In: 40.355+/-45.689 χ^2/NDF : 6.6/22

Left: 29.774+/-33.271 χ^2/NDF : 14.2/47

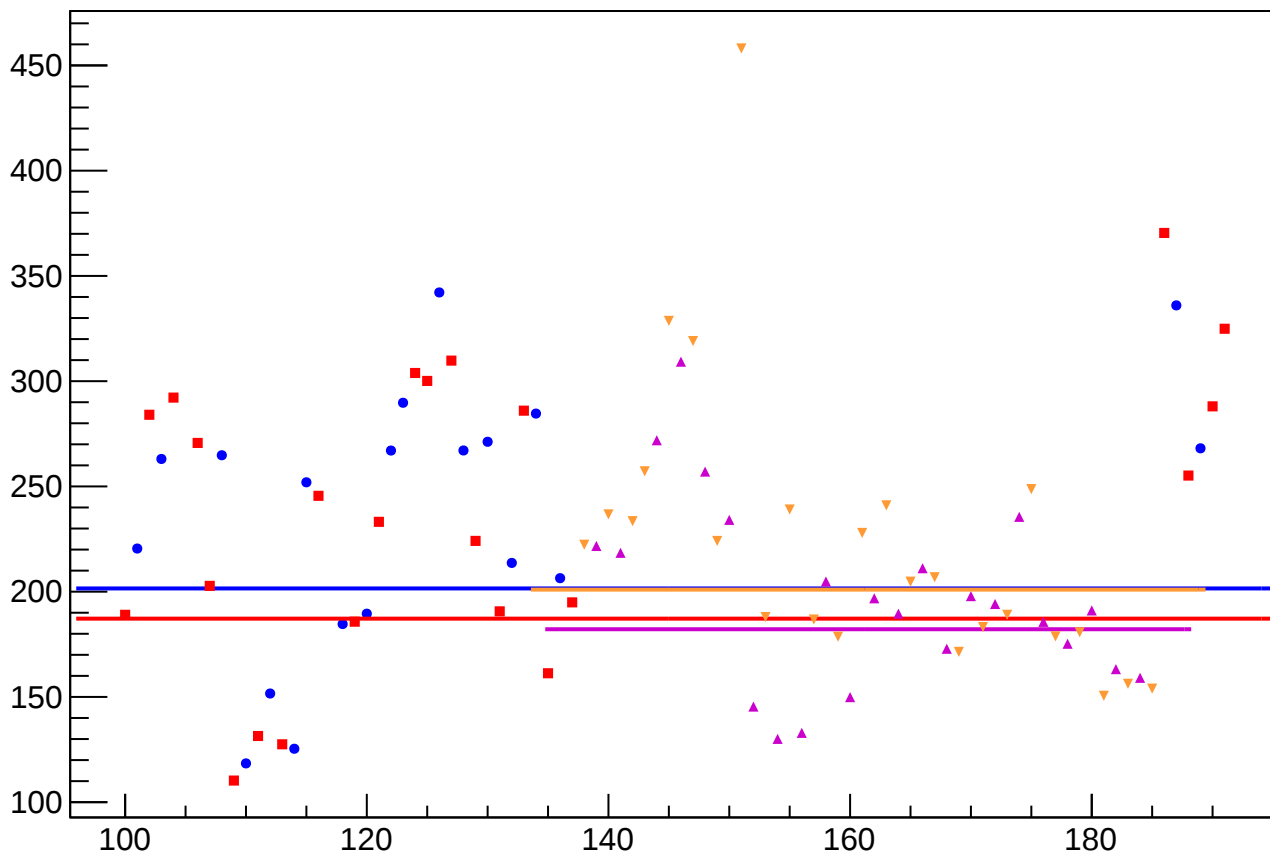
Right: 13.361+/-51.285 χ^2/NDF : 17.5/41

In: 40.135+/-39.503 χ^2/NDF : 16.7/41

Out: 9.735+/-39.444 χ^2/NDF : 14.7/47

All: 24.912+/-27.912 χ^2/NDF : 31.8/89

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 201.539 $\pm$ 0.056 χ^2 /NDF: 1083098.9/18

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

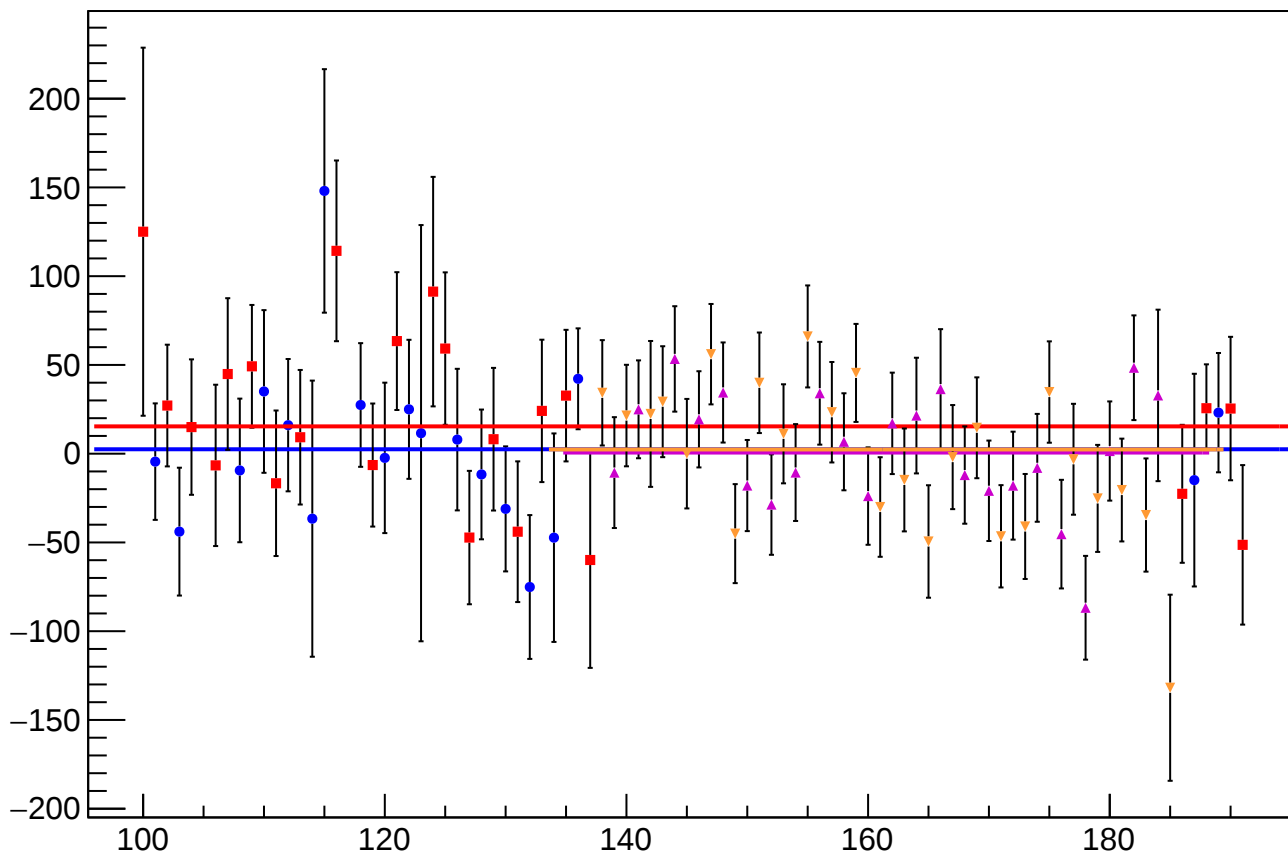
Right: 193.296 $\pm$ 0.036 χ^2 /NDF: 3173243.6/41

In: 187.051 $\pm$ 0.028 χ^2 /NDF: 2709876.1/41

Out: 196.297 $\pm$ 0.028 χ^2 /NDF: 3834044.1/47

All: 191.681 $\pm$ 0.020 χ^2 /NDF: 6598786.9/89

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.490 $\pm$ 9.335 χ^2 /NDF: 15.9/18

Left Out: 2.390 $\pm$ 5.980 χ^2 /NDF:39.1/24

Right Out: 15.384 $\pm$ 8.320 χ^2 /NDF: 21.9/22

Left In: 0.641 $\pm$ 6.091 χ^2 /NDF:27.3/22

Left: 1.531 $\pm$ 4.267 χ^2 /NDF: 66.5/47

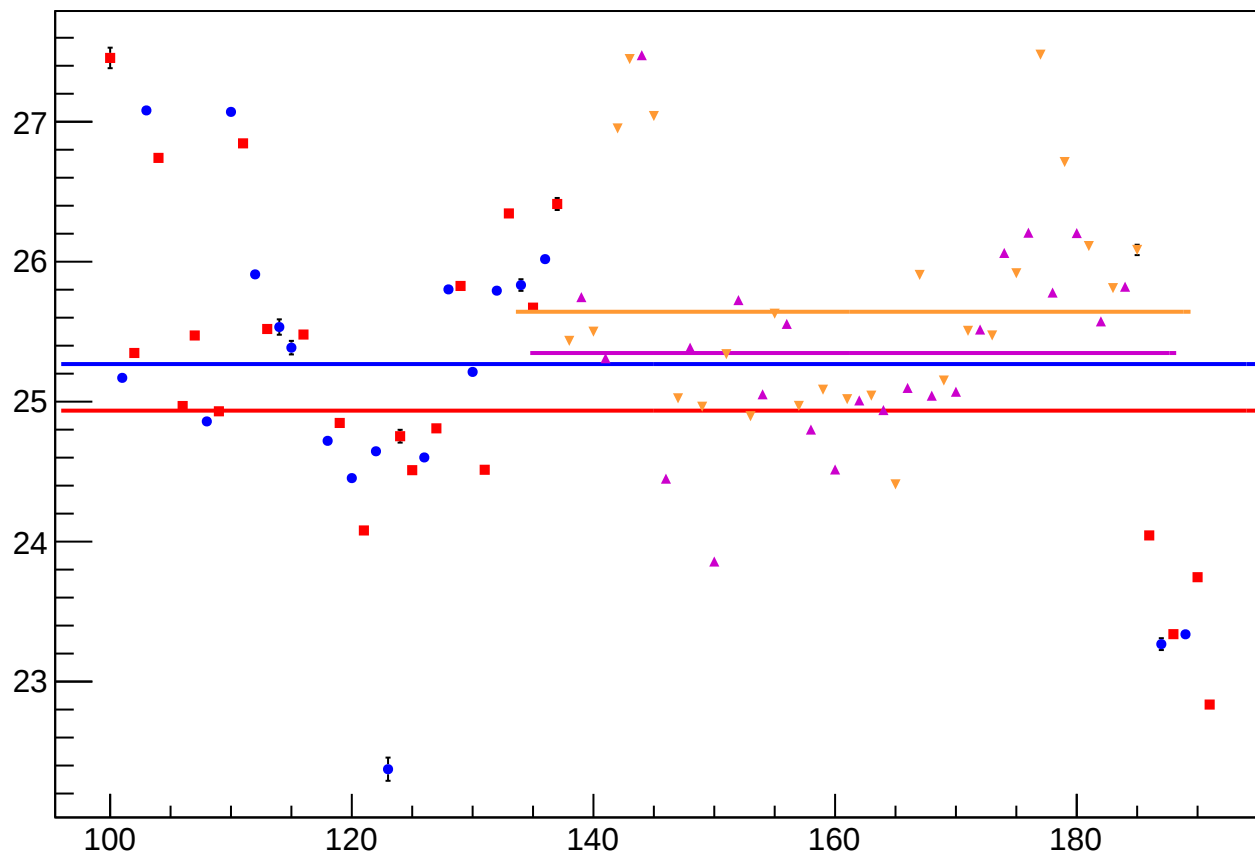
Right: 9.676 $\pm$ 6.211 χ^2 /NDF: 38.9/41

In: 1.193 $\pm$ 5.101 χ^2 /NDF:43.3/41

Out: 6.816 $\pm$ 4.856 χ^2 /NDF:62.6/47

All: 4.143 $\pm$ 3.517 χ^2 /NDF: 106.5/89

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.269 $\pm$ 0.007 χ^2 /NDF: 23695.6/18

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

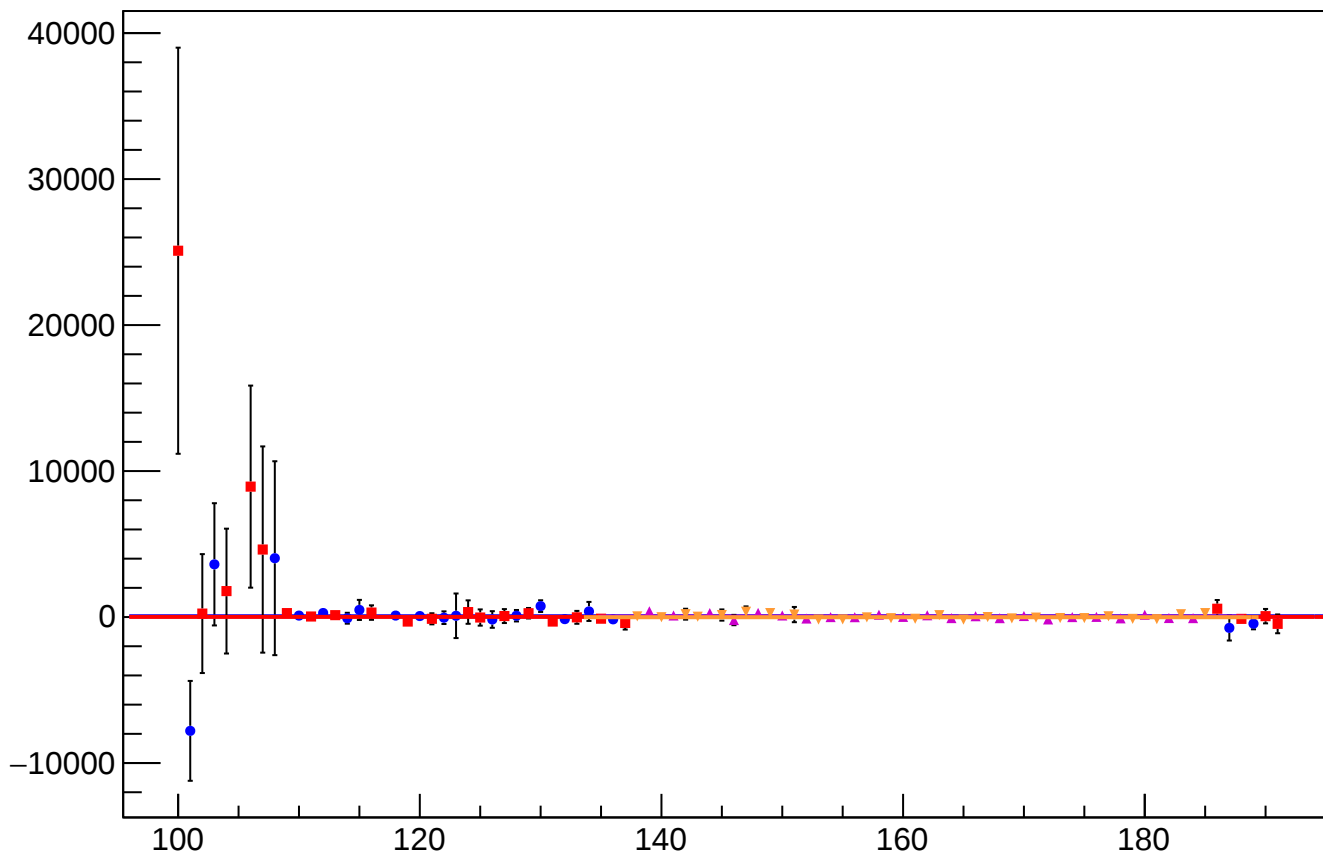
Right: 25.083 $\pm$ 0.004 χ^2 /NDF: 58795.9/41

In: 25.324 $\pm$ 0.004 χ^2 /NDF:53185.3/41

Out: 25.402 $\pm$ 0.003 χ^2 /NDF:77995.2/47

All: 25.365 $\pm$ 0.002 χ^2 /NDF: 131424.4/89

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 55.106+/-85.339 χ^2/NDF : 15.2/18

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

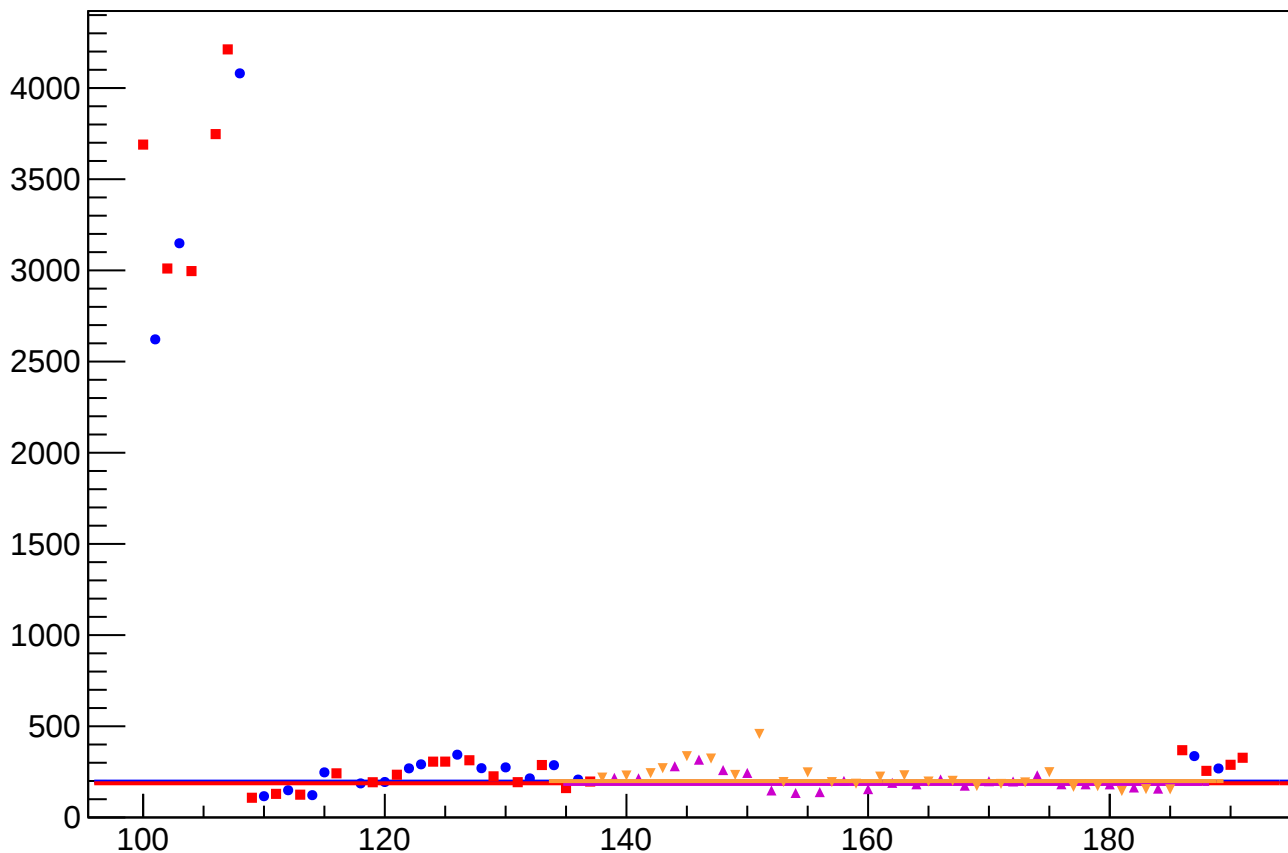
Right: 30.282+/-56.534 χ^2/NDF : 29.0/41

In: 33.403+/-40.491 χ^2/NDF : 22.4/41

Out: -4.959+/-40.660 χ^2/NDF : 21.7/47

All: 14.302+/-28.691 χ^2/NDF : 44.6/89

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.546 $\pm$ 0.060 χ^2 /NDF: 3701199.8/18

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

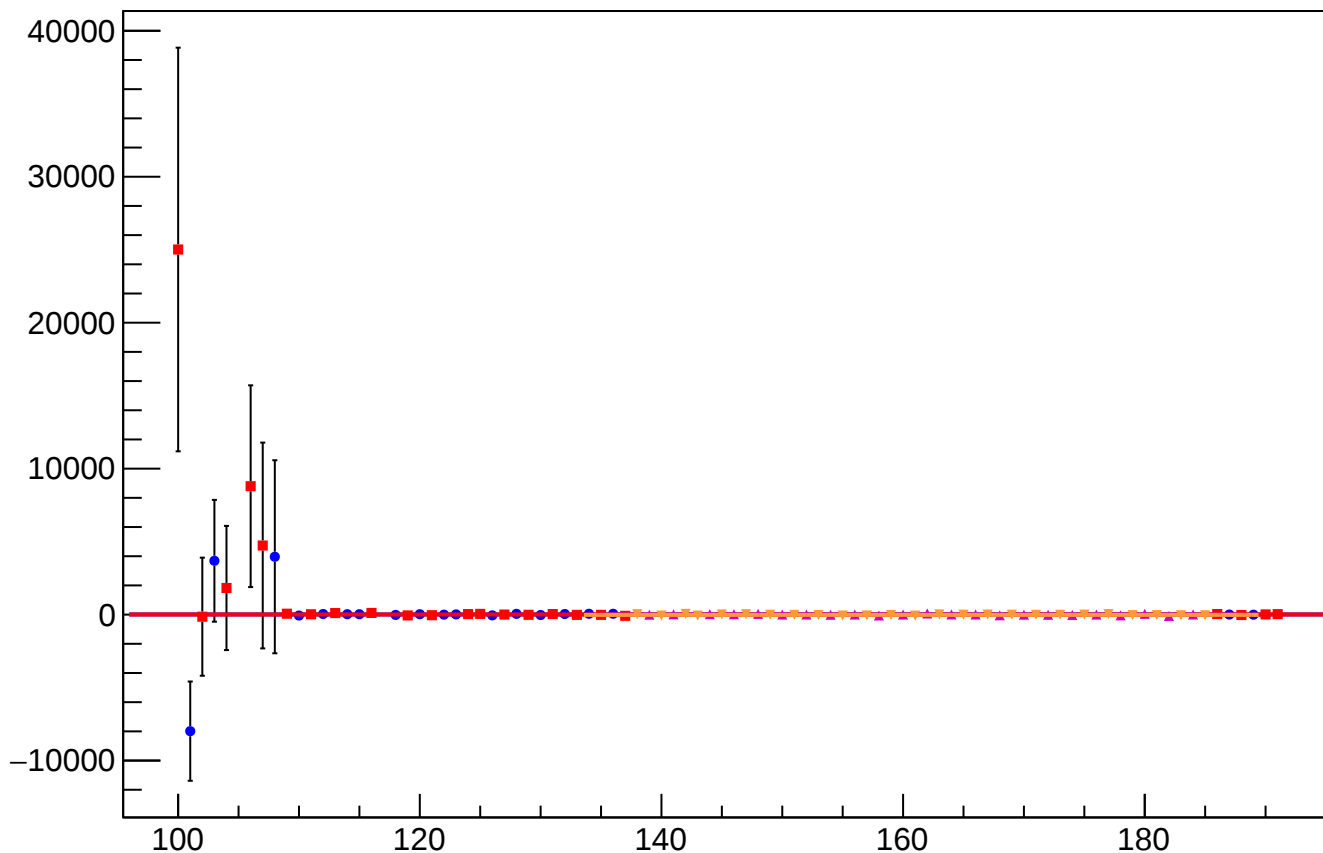
Right: 191.396 $\pm$ 0.040 χ^2 /NDF: 8466664.4/41

In: 186.673 $\pm$ 0.029 χ^2 /NDF:5148612.6/41

Out: 195.935 $\pm$ 0.029 χ^2 /NDF:6666636.8/47

All: 191.285 $\pm$ 0.020 χ^2 /NDF: 11867350.9/89

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.553+/-11.484 χ^2/NDF : 18.5/18

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

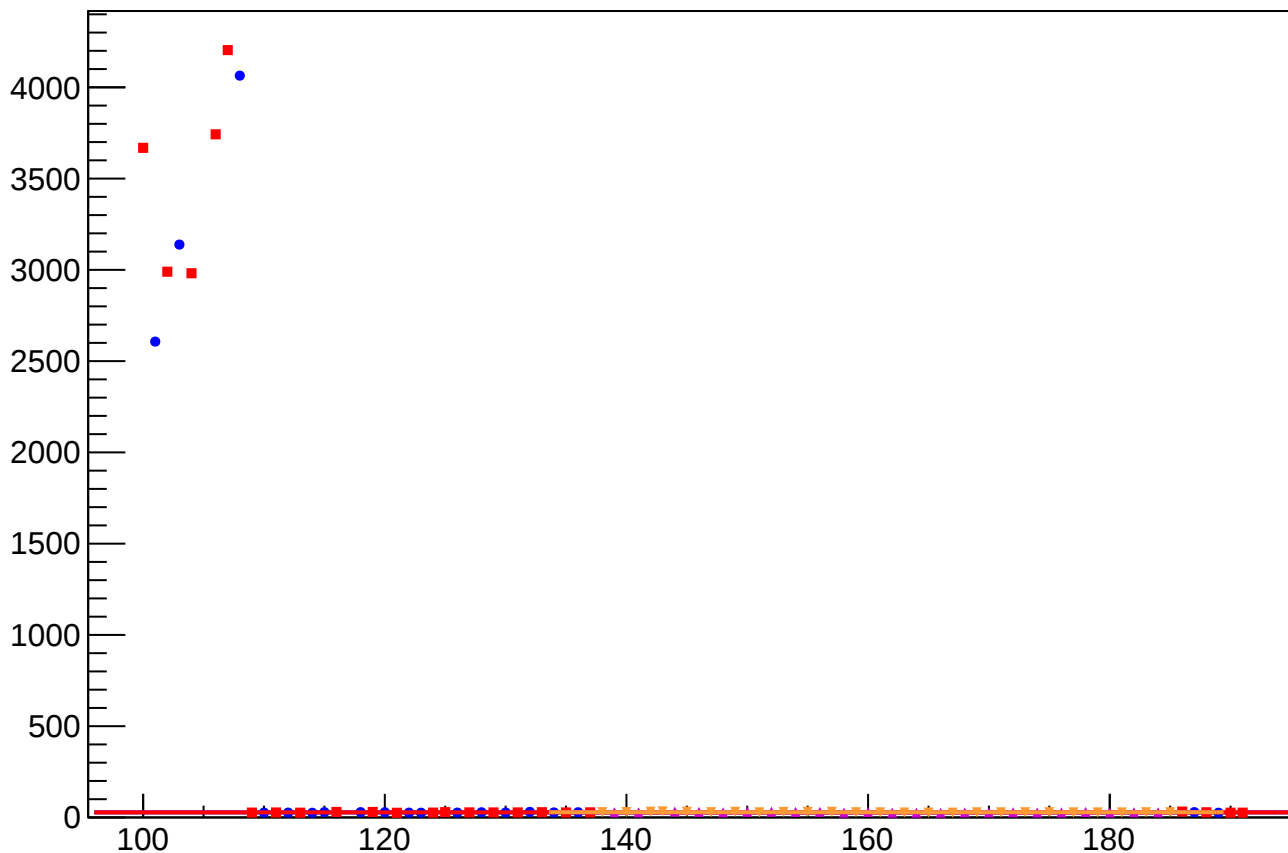
Right: 9.388+/-7.771 χ^2/NDF : 44.3/41

In: 3.469+/-5.919 χ^2/NDF : 50.9/41

Out: -10.251+/-5.659 χ^2/NDF : 52.3/47

All: -3.700+/-4.090 χ^2/NDF : 106.0/89

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.702 $\pm$ 0.008 χ^2 /NDF: 3032484.5/18

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

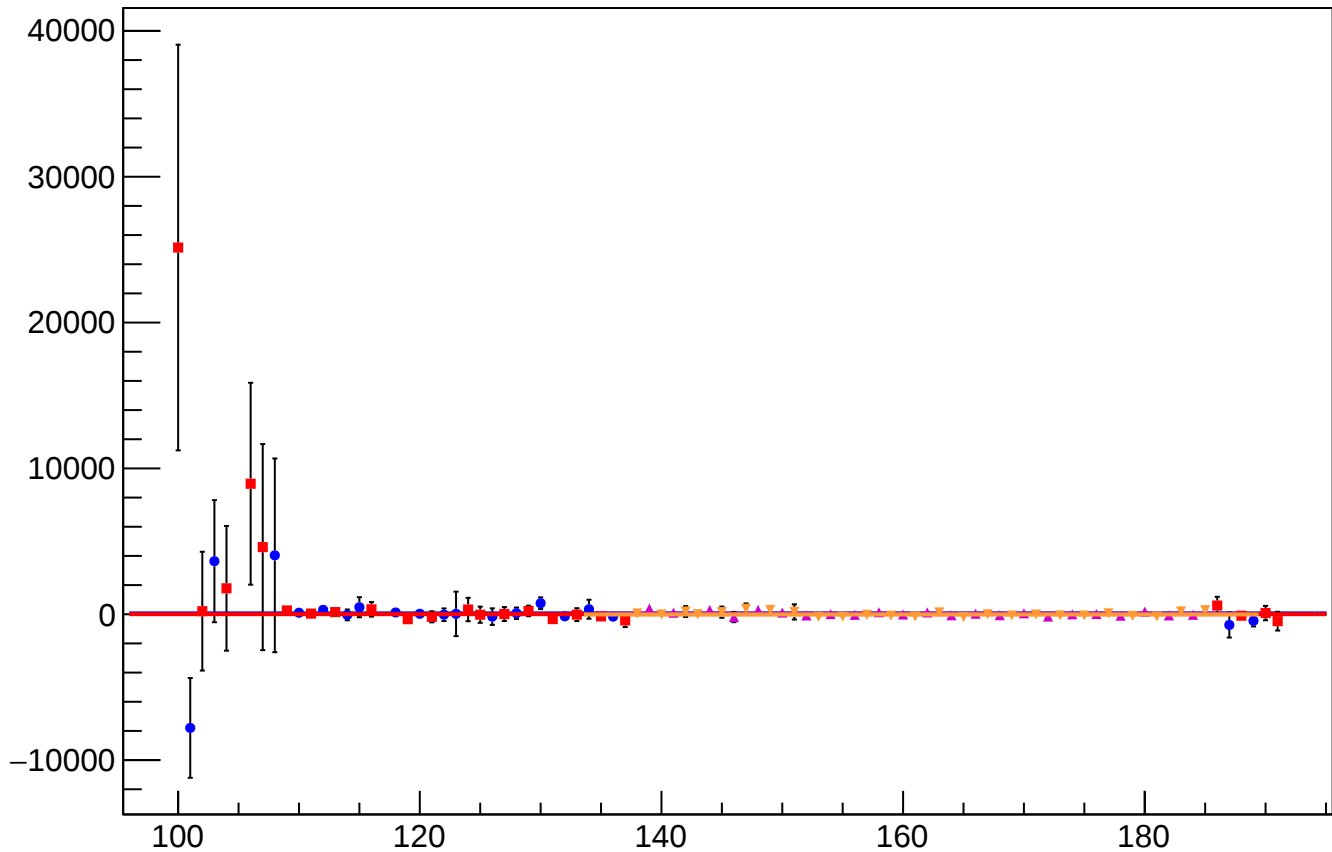
Right: 27.765 $\pm$ 0.005 χ^2 /NDF: 6528690.0/41

In: 28.418 $\pm$ 0.004 χ^2 /NDF:3166873.3/41

Out: 28.442 $\pm$ 0.004 χ^2 /NDF:3616389.6/47

All: 28.430 $\pm$ 0.003 χ^2 /NDF: 6783280.0/89

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 59.830+/-85.079 χ^2/NDF : 15.4/18

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

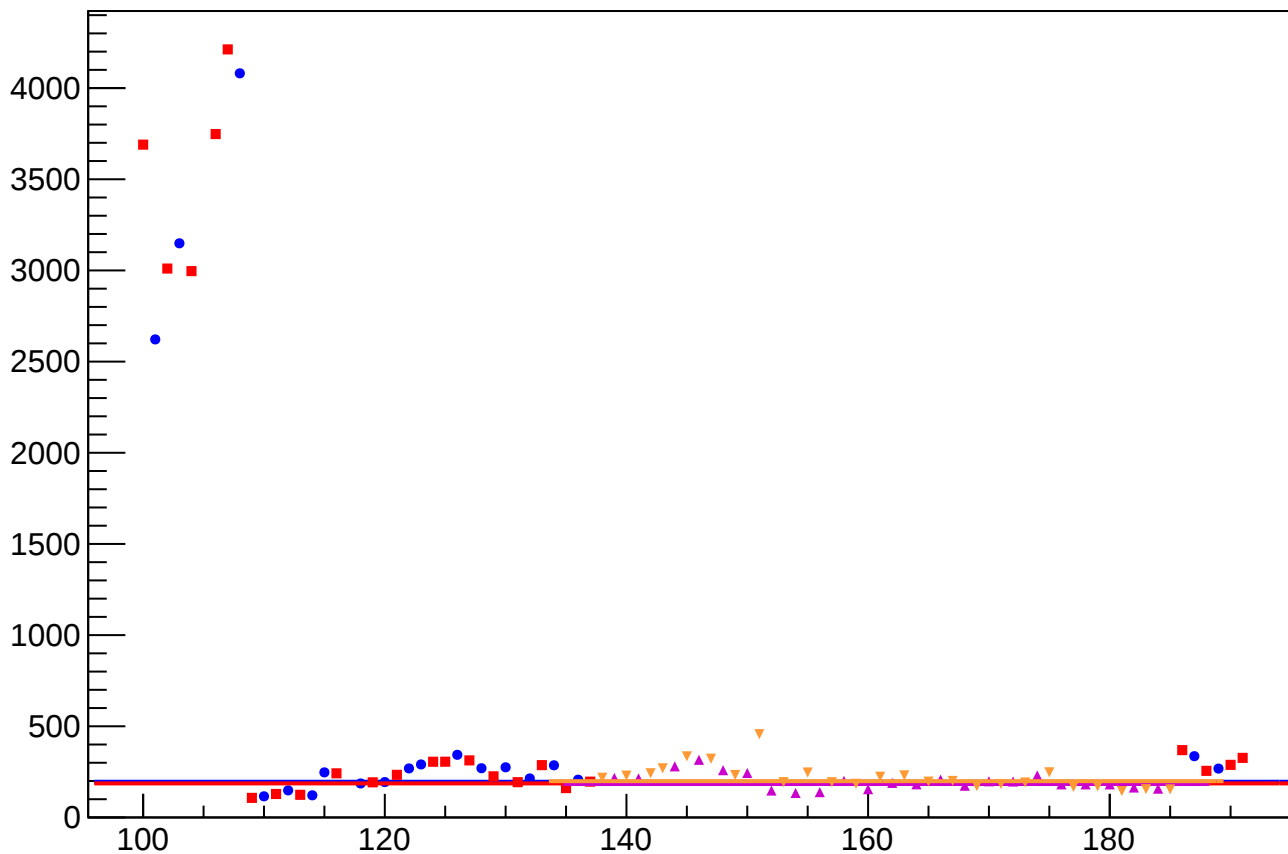
Right: 29.191+/-56.369 χ^2/NDF : 30.1/41

In: 34.625+/-40.401 χ^2/NDF : 23.0/41

Out: -8.331+/-40.562 χ^2/NDF : 23.3/47

All: 13.233+/-28.625 χ^2/NDF : 46.9/89

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.834 $\pm$ 0.060 χ^2 /NDF: 3713981.2/18

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

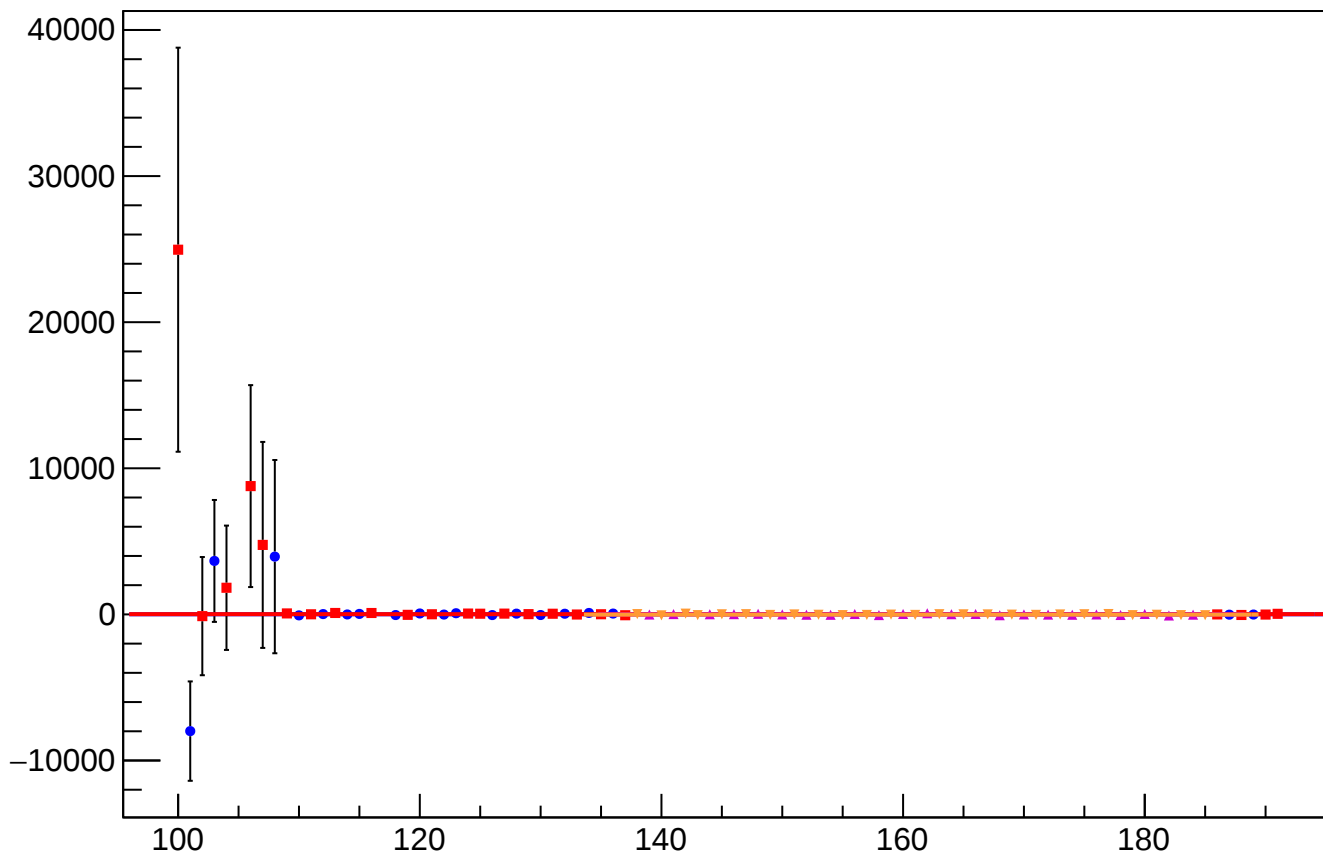
Right: 190.716 $\pm$ 0.040 χ^2 /NDF: 8496679.3/41

In: 186.236 $\pm$ 0.029 χ^2 /NDF:5159184.6/41

Out: 195.428 $\pm$ 0.029 χ^2 /NDF:6685249.9/47

All: 190.813 $\pm$ 0.020 χ^2 /NDF: 11895989.7/89

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.942 ± 11.546 χ^2/NDF : 22.9/18

Left Out: -15.829 ± 6.733 χ^2/NDF : 16.5/24

Right Out: 16.939 ± 10.599 χ^2/NDF : 21.3/22

Left In: -0.498 ± 6.937 χ^2/NDF : 26.1/22

Left: -8.392 ± 4.831 χ^2/NDF : 45.1/47

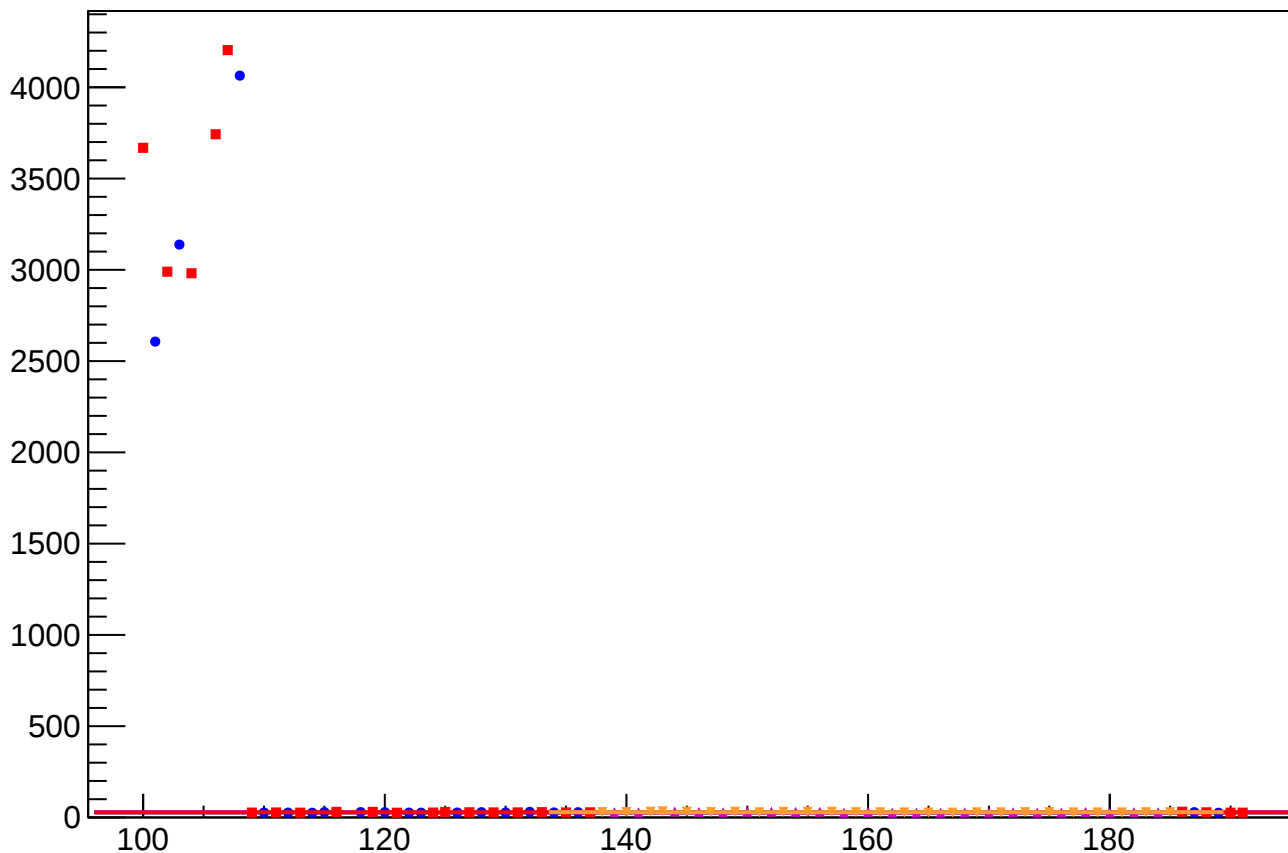
Right: 12.367 ± 7.808 χ^2/NDF : 44.6/41

In: 1.475 ± 5.946 χ^2/NDF : 49.3/41

Out: -6.407 ± 5.683 χ^2/NDF : 44.6/47

All: -2.644 ± 4.109 χ^2/NDF : 94.8/89

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.844+/-0.008 χ^2/NDF : 3034347.8/18

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

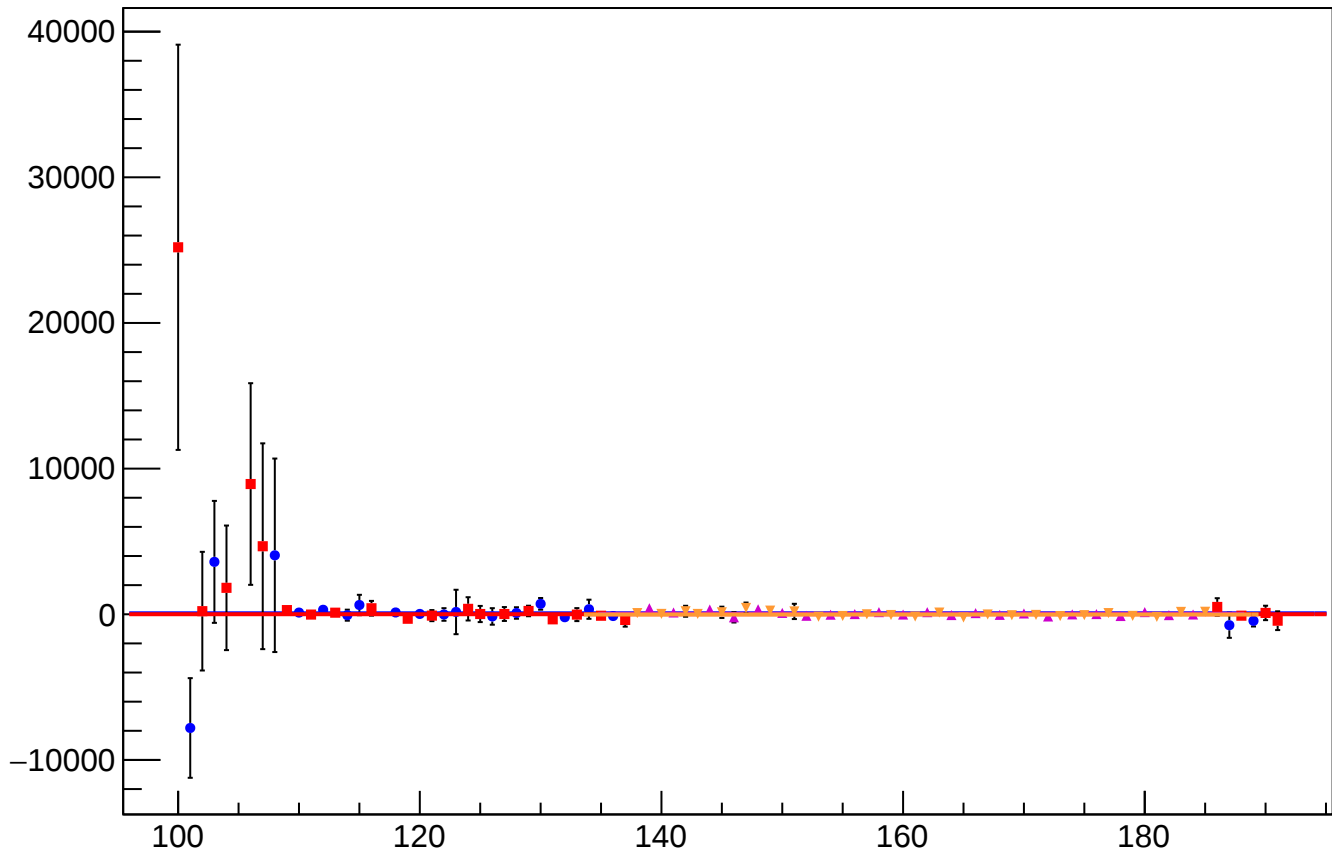
Right: 27.893+/-0.006 χ^2/NDF : 6528361.5/41

In: 28.545+/-0.004 χ^2/NDF :3172637.6/41

Out: 28.561+/-0.004 χ^2/NDF :3625922.9/47

All: 28.553+/-0.003 χ^2/NDF : 6798568.7/89

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 66.366+/-86.045 χ^2/NDF : 15.3/18

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

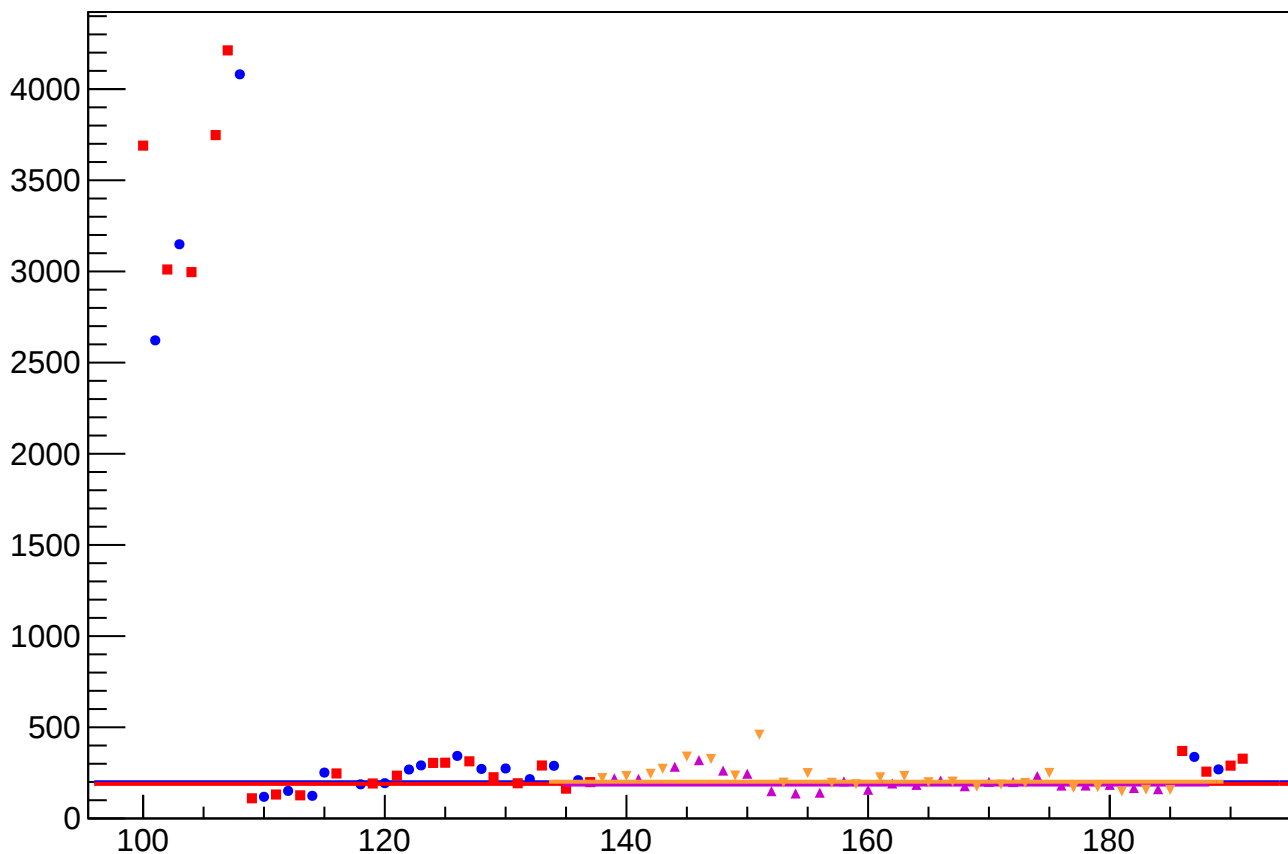
Right: 31.130+/-57.037 χ^2/NDF : 29.2/41

In: 39.359+/-40.897 χ^2/NDF : 23.3/41

Out: -8.890+/-41.053 χ^2/NDF : 21.8/47

All: 15.326+/-28.974 χ^2/NDF : 45.8/89

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 198.524+/-0.061 χ^2/NDF : 3661661.5/18

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

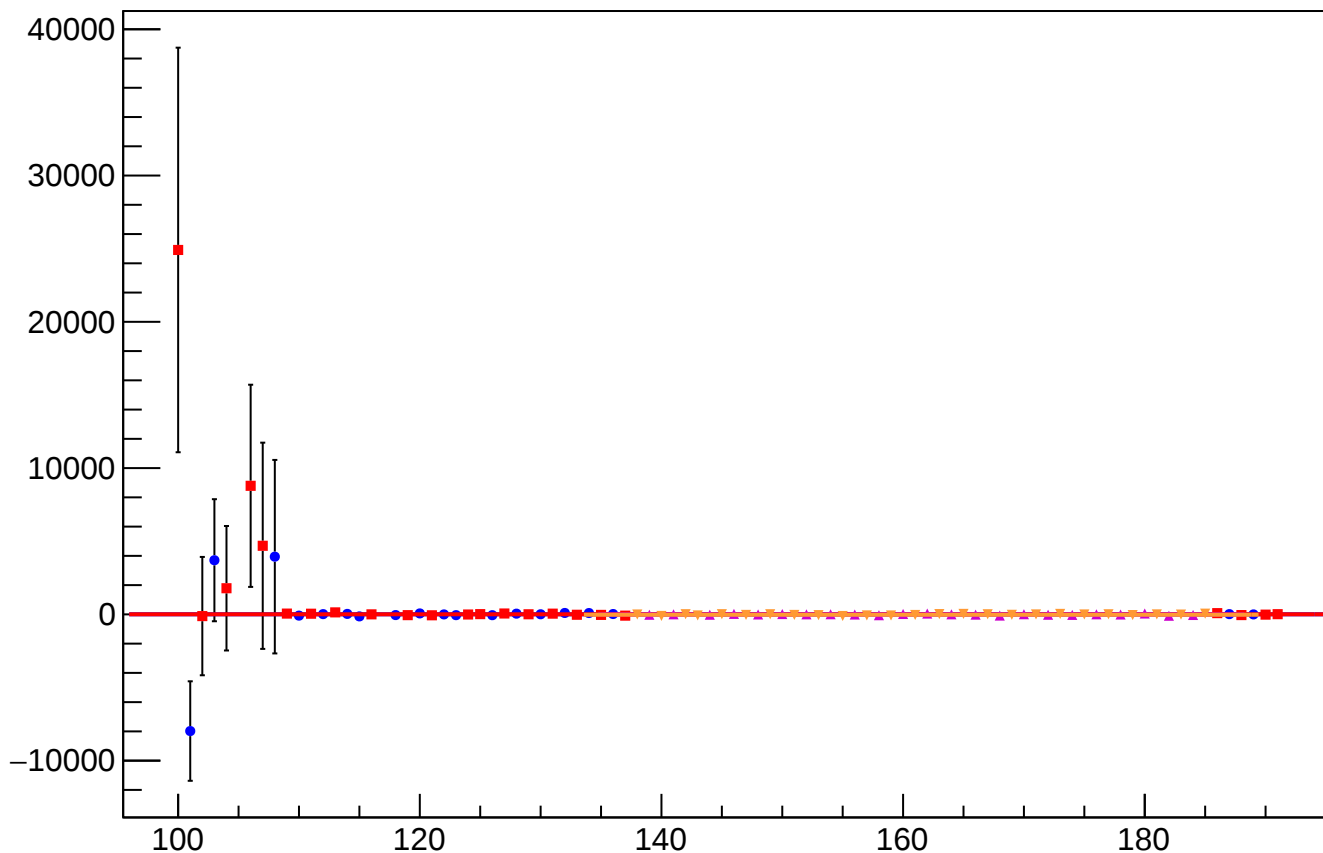
Right: 193.521+/-0.040 χ^2/NDF : 8370385.7/41

In: 188.735+/-0.029 χ^2/NDF : 5075977.4/41

Out: 198.046+/-0.029 χ^2/NDF : 6586219.5/47

All: 193.373+/-0.020 χ^2/NDF : 11713829.0/89

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.603+/-14.078 χ^2/NDF : 20.1/18

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

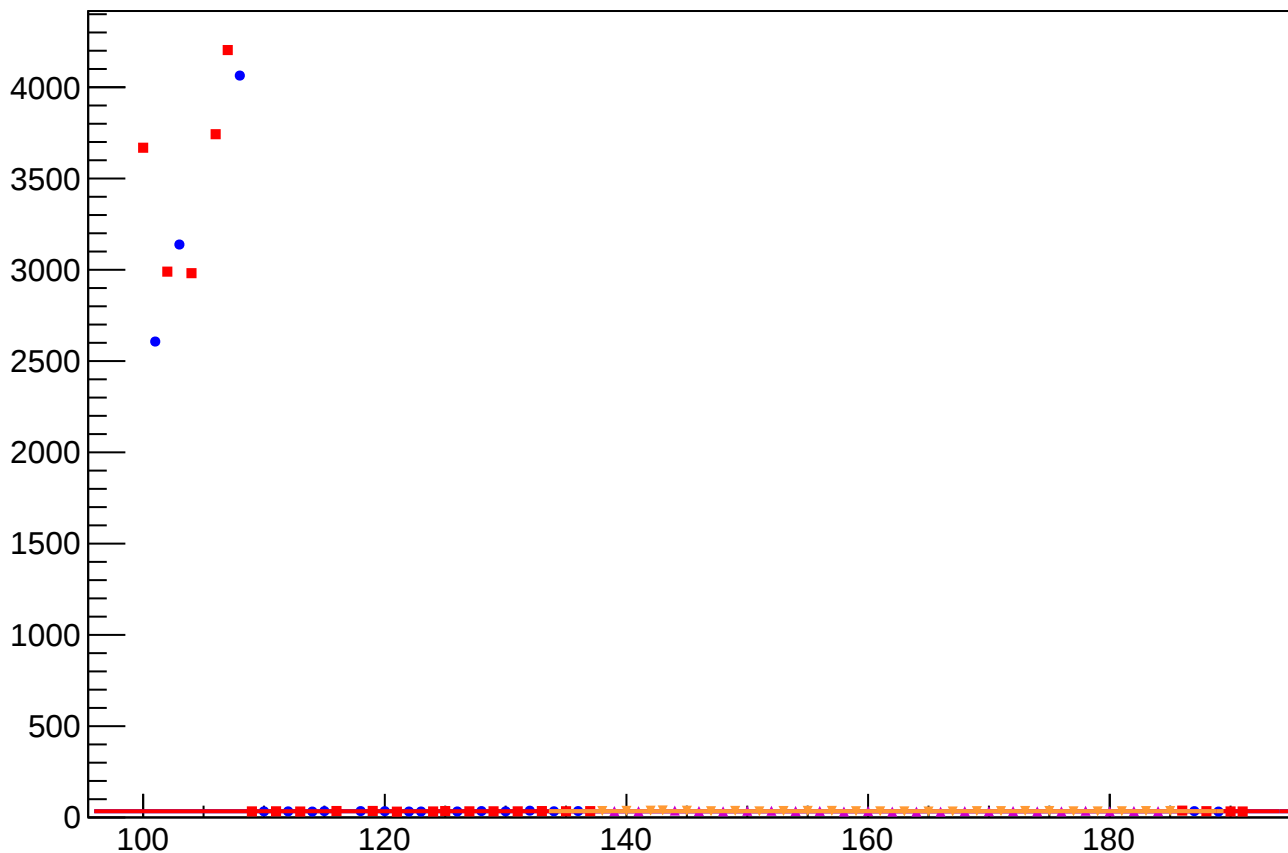
Right: 5.872+/-9.505 χ^2/NDF : 45.6/41

In: -2.930+/-7.175 χ^2/NDF : 41.6/41

Out: -15.614+/-6.843 χ^2/NDF : 54.3/47

All: -9.572+/-4.952 χ^2/NDF : 97.5/89

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.996 $\pm$ 0.010 χ^2 /NDF: 3009481.9/18

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

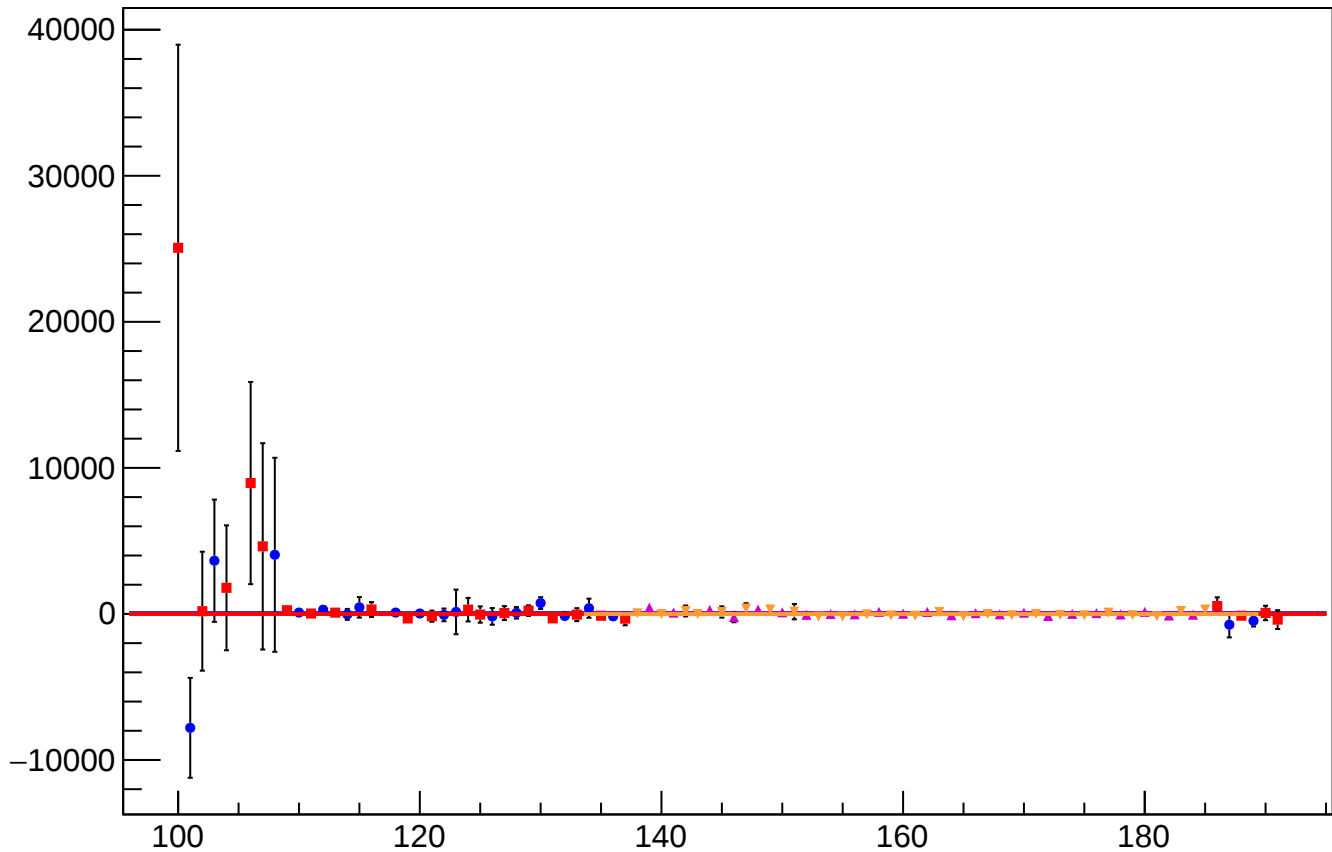
Right: 34.021 $\pm$ 0.007 χ^2 /NDF: 6469301.8/41

In: 34.504 $\pm$ 0.005 χ^2 /NDF: 3072828.6/41

Out: 34.455 $\pm$ 0.005 χ^2 /NDF: 3520540.1/47

All: 34.478 $\pm$ 0.004 χ^2 /NDF: 6593416.4/89

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 51.629 $\pm$ 85.636 χ^2 /NDF: 15.3/18

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

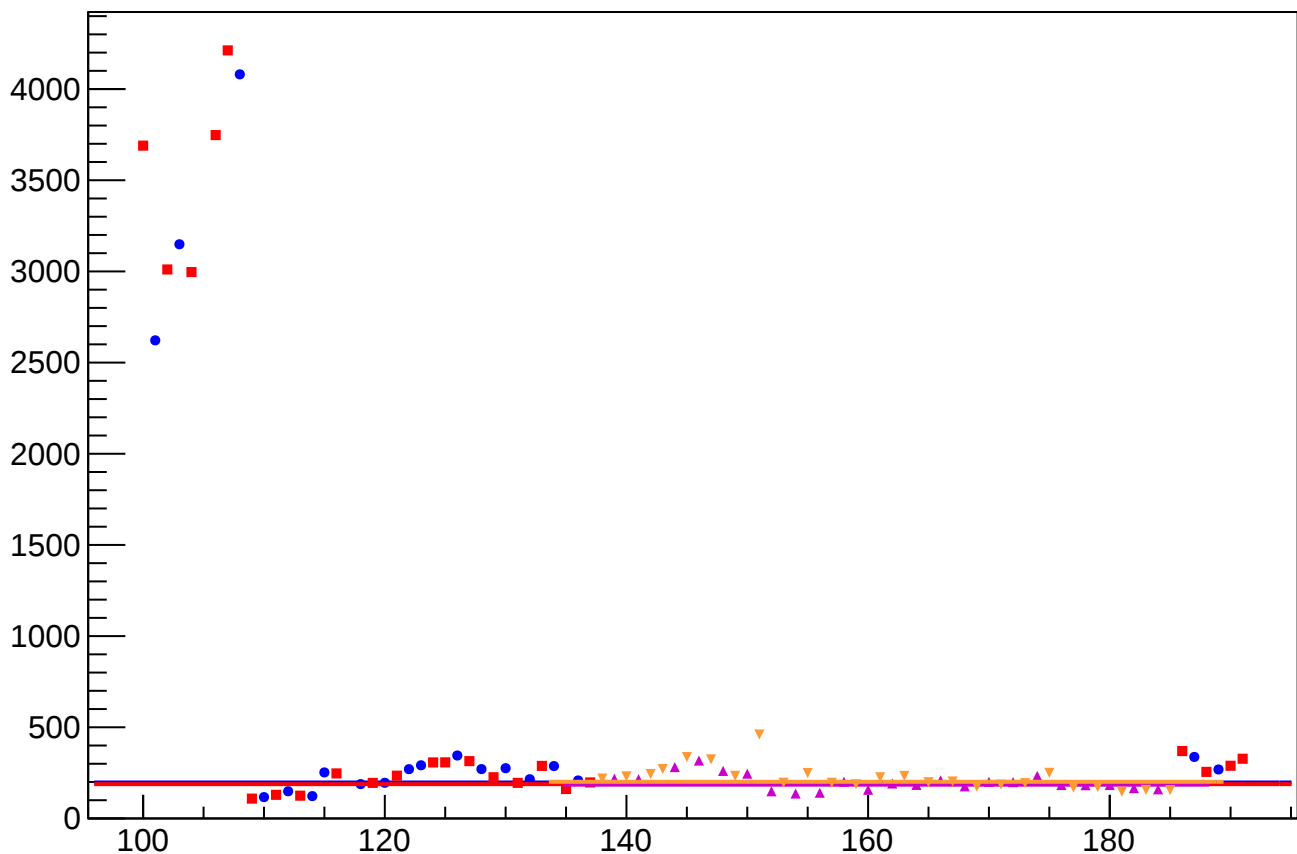
Right: 21.924 $\pm$ 56.727 χ^2 /NDF: 28.0/41

In: 38.759 $\pm$ 40.810 χ^2 /NDF: 22.4/41

Out: -5.730 $\pm$ 40.938 χ^2 /NDF: 21.3/47

All: 16.584 $\pm$ 28.902 χ^2 /NDF: 44.3/89

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.240 $\pm$ 0.061 χ^2 /NDF: 3701536.0/18

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

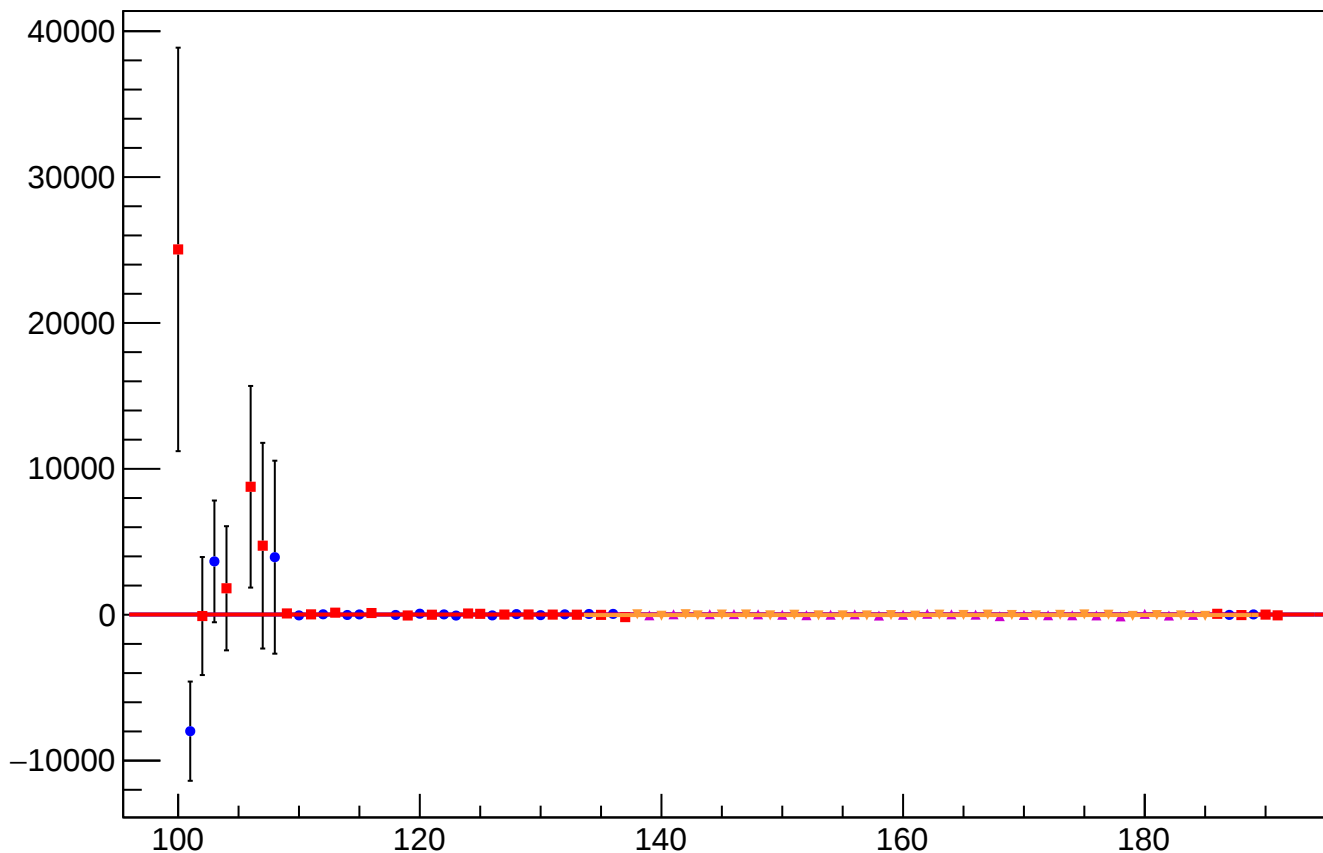
Right: 192.078 $\pm$ 0.040 χ^2 /NDF: 8466375.0/41

In: 188.265 $\pm$ 0.029 χ^2 /NDF:5101369.6/41

Out: 197.353 $\pm$ 0.029 χ^2 /NDF:6643054.3/47

All: 192.795 $\pm$ 0.020 χ^2 /NDF: 11793867.1/89

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.309+/-12.808 χ^2/NDF : 14.9/18

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 15.253+/-11.725 χ^2/NDF : 30.8/22

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

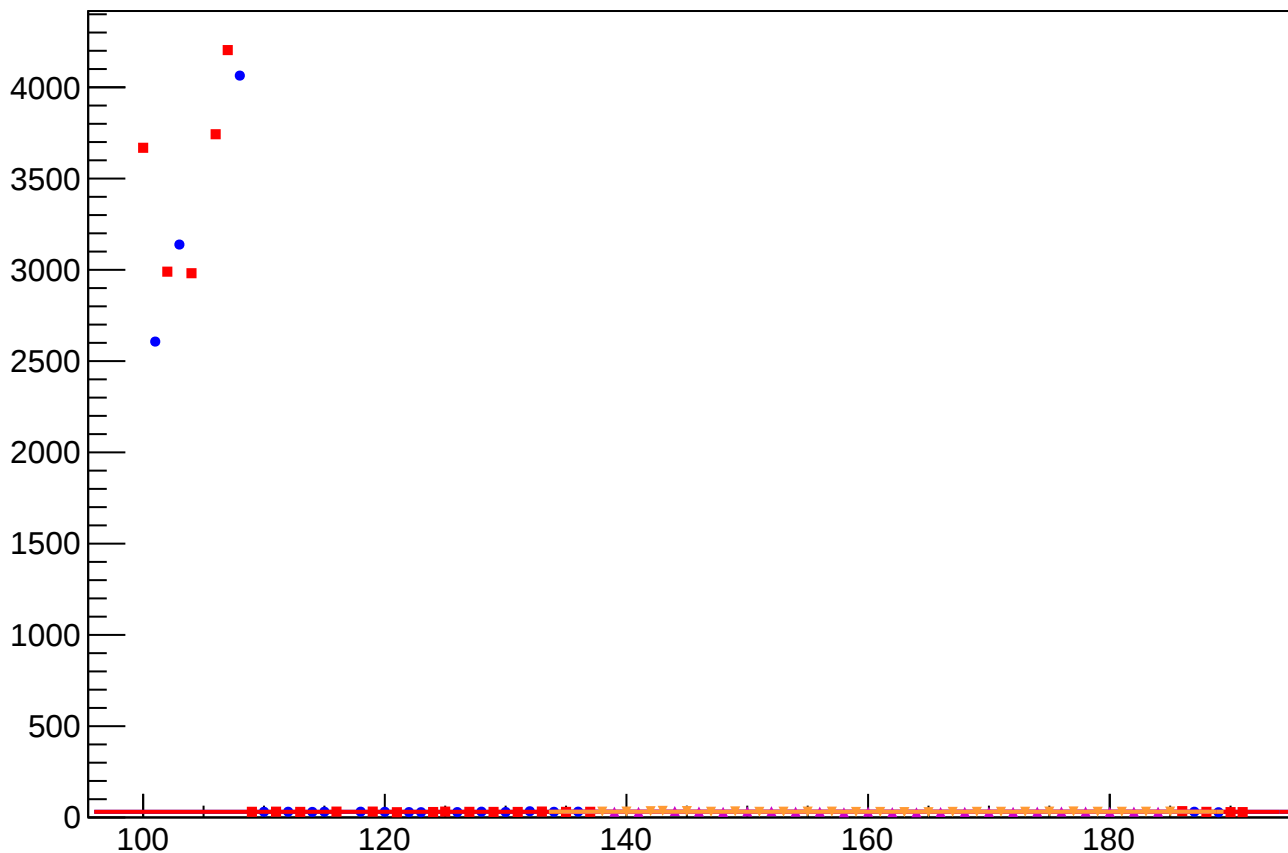
Right: 14.823+/-8.648 χ^2/NDF : 45.7/41

In: -1.021+/-6.521 χ^2/NDF :55.6/41

Out: -12.434+/-6.229 χ^2/NDF :56.9/47

All: -6.989+/-4.504 χ^2/NDF : 114.0/89

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.920 $\pm$ 0.009 χ^2 /NDF: 3020920.8/18

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.940 $\pm$ 0.008 χ^2 /NDF: 3471154.4/22

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

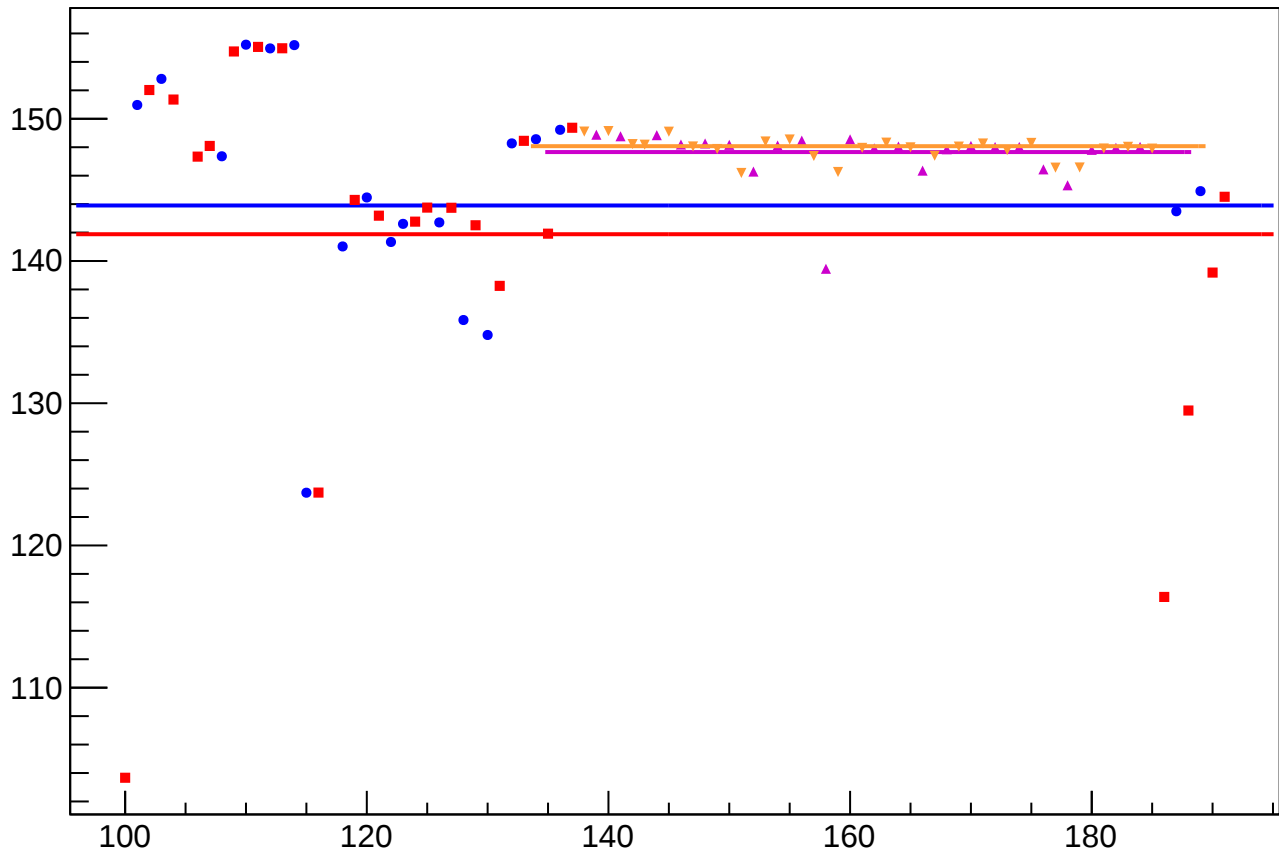
Right: 30.931 $\pm$ 0.006 χ^2 /NDF: 6492077.9/41

In: 31.332 $\pm$ 0.005 χ^2 /NDF: 3111500.0/41

Out: 31.334 $\pm$ 0.004 χ^2 /NDF: 3556228.4/47

All: 31.333 $\pm$ 0.003 χ^2 /NDF: 6667728.5/89

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.904 $\pm$ 0.000 χ^2 /NDF: 3451668411.9/18

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 141.883 $\pm$ 0.000 χ^2 /NDF: 7222796563.7/22

Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2 /NDF: 417177881.5/47

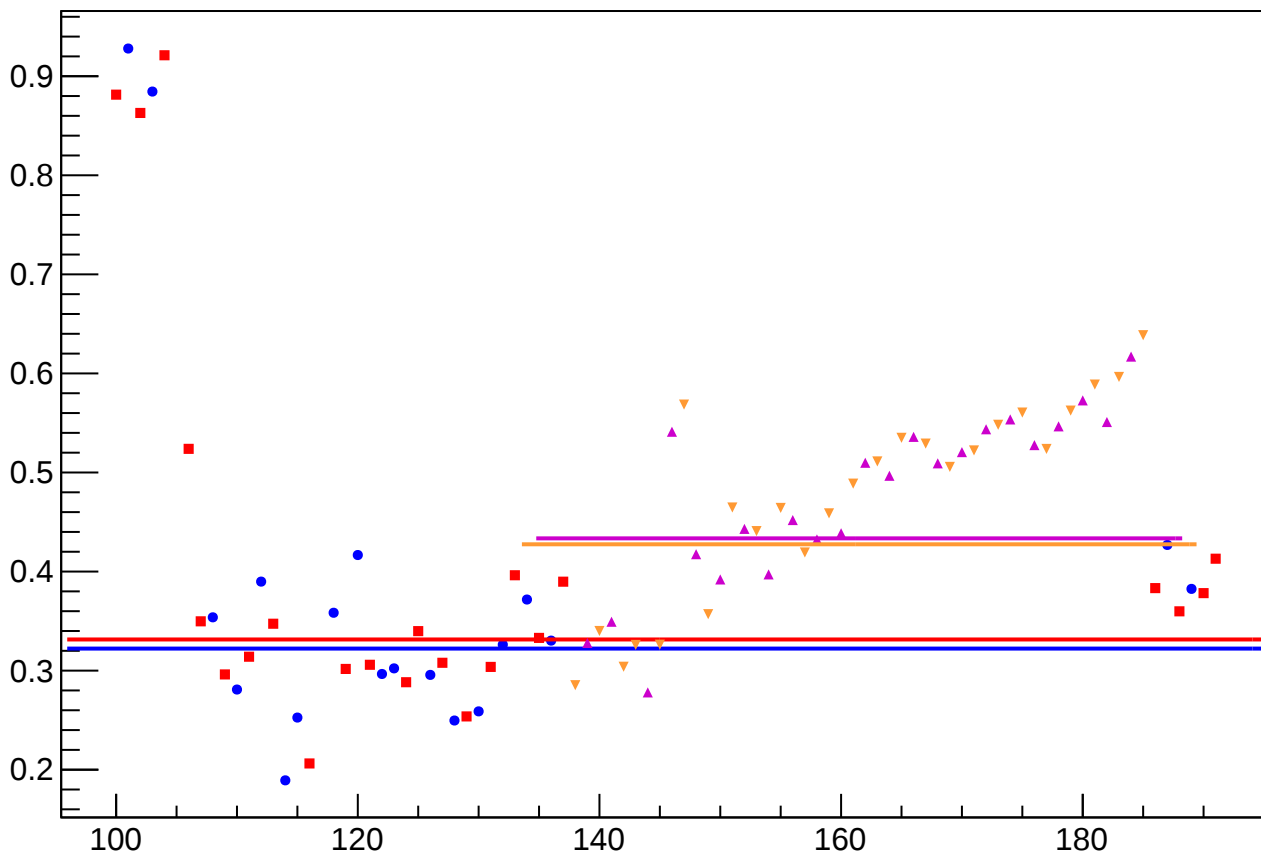
Right: 142.814 $\pm$ 0.000 χ^2 /NDF: 10804567143.7/41

In: 146.129 $\pm$ 0.000 χ^2 /NDF: 4289421296.2/41

Out: 145.426 $\pm$ 0.000 χ^2 /NDF: 8806424180.1/47

All: 145.758 $\pm$ 0.000 χ^2 /NDF: 13133659595.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.322+/-0.000 χ^2/NDF : 1314808.4/18

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.331+/-0.000 χ^2/NDF : 1279028.5/22

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

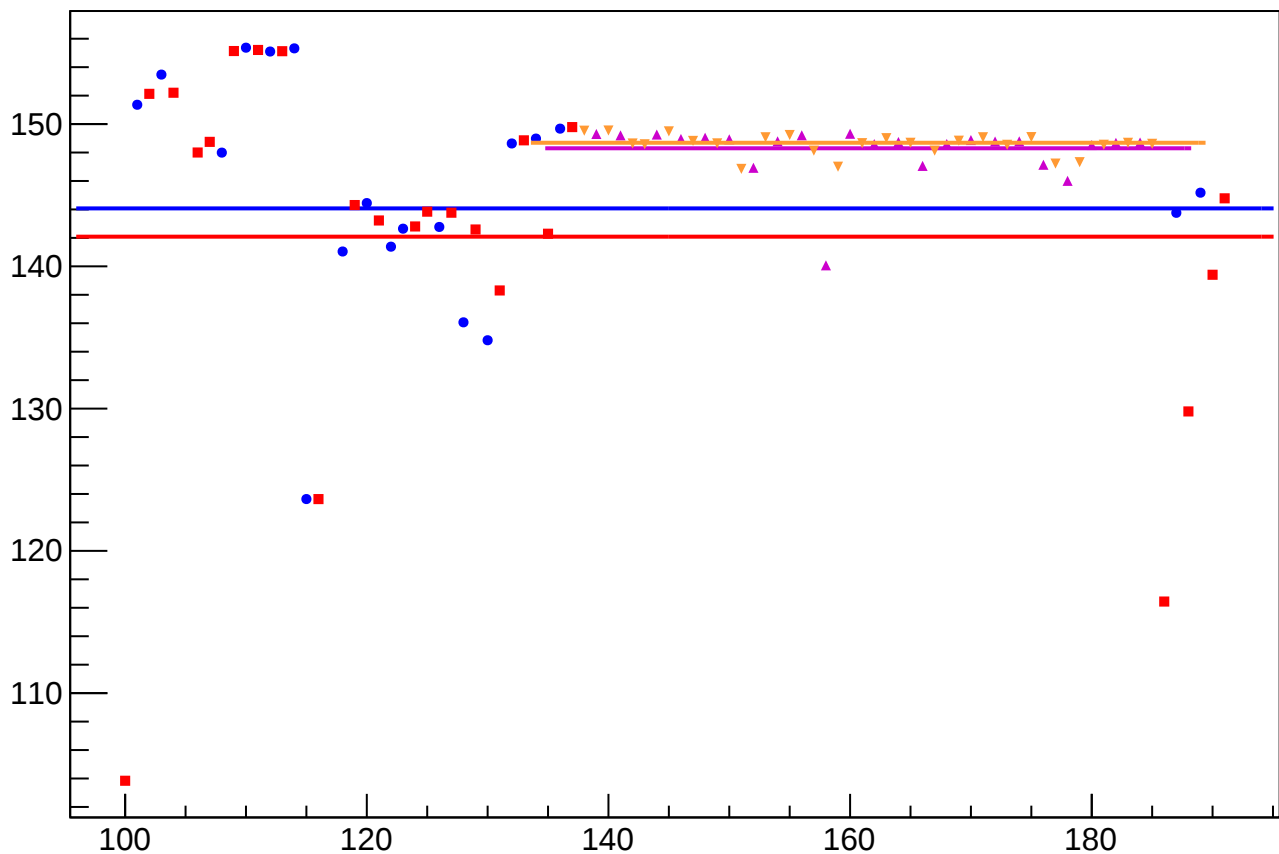
Right: 0.327+/-0.000 χ^2/NDF : 2599238.7/41

In: 0.388+/-0.000 χ^2/NDF :3660551.7/41

Out: 0.386+/-0.000 χ^2/NDF :3902930.4/47

All: 0.387+/-0.000 χ^2/NDF : 7563939.9/89

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.073 ± 0.000 $\chi^2/\text{NDF}: 3496135490.2/18$

Left Out: 148.687 ± 0.000 $\chi^2/\text{NDF}: 52285197.5/24$

Right Out: 142.086 ± 0.000 $\chi^2/\text{NDF}: 7166102689.3/22$

Left In: 148.298 ± 0.000 $\chi^2/\text{NDF}: 332527463.6/22$

Left: 148.500 ± 0.000 $\chi^2/\text{NDF}: 391414535.1/47$

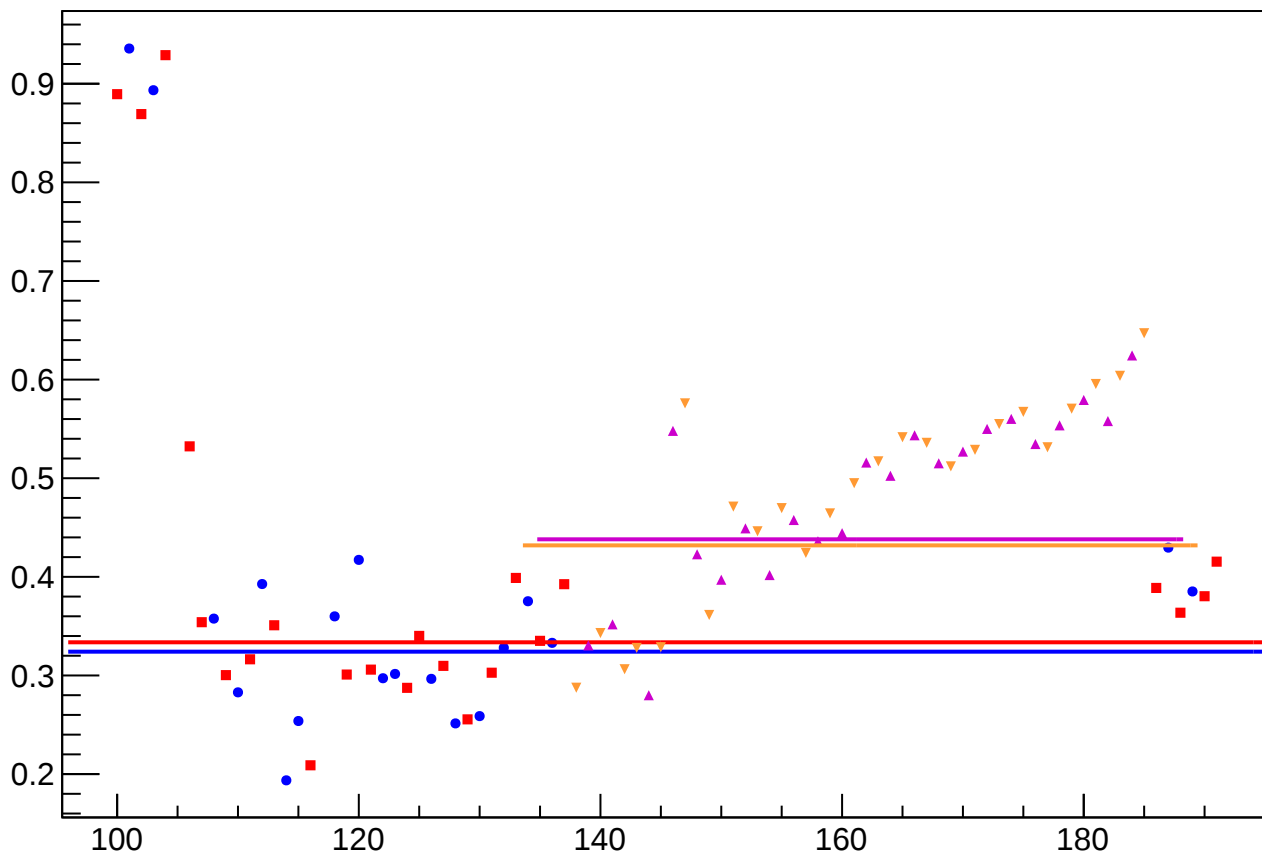
Right: 143.002 ± 0.000 $\chi^2/\text{NDF}: 10786469437.0/41$

In: 146.565 ± 0.000 $\chi^2/\text{NDF}: 4443652763.9/41$

Out: 145.851 ± 0.000 $\chi^2/\text{NDF}: 8915584091.4/47$

All: 146.188 ± 0.000 $\chi^2/\text{NDF}: 13397616643.0/100$

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.324+/-0.000 χ^2/NDF : 1316734.7/18

Left Out: 0.432+/-0.000 χ^2/NDF :1924979.0/24

Right Out: 0.334+/-0.000 χ^2/NDF : 1283851.8/22

Left In: 0.438+/-0.000 χ^2/NDF :1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3432903.3/47

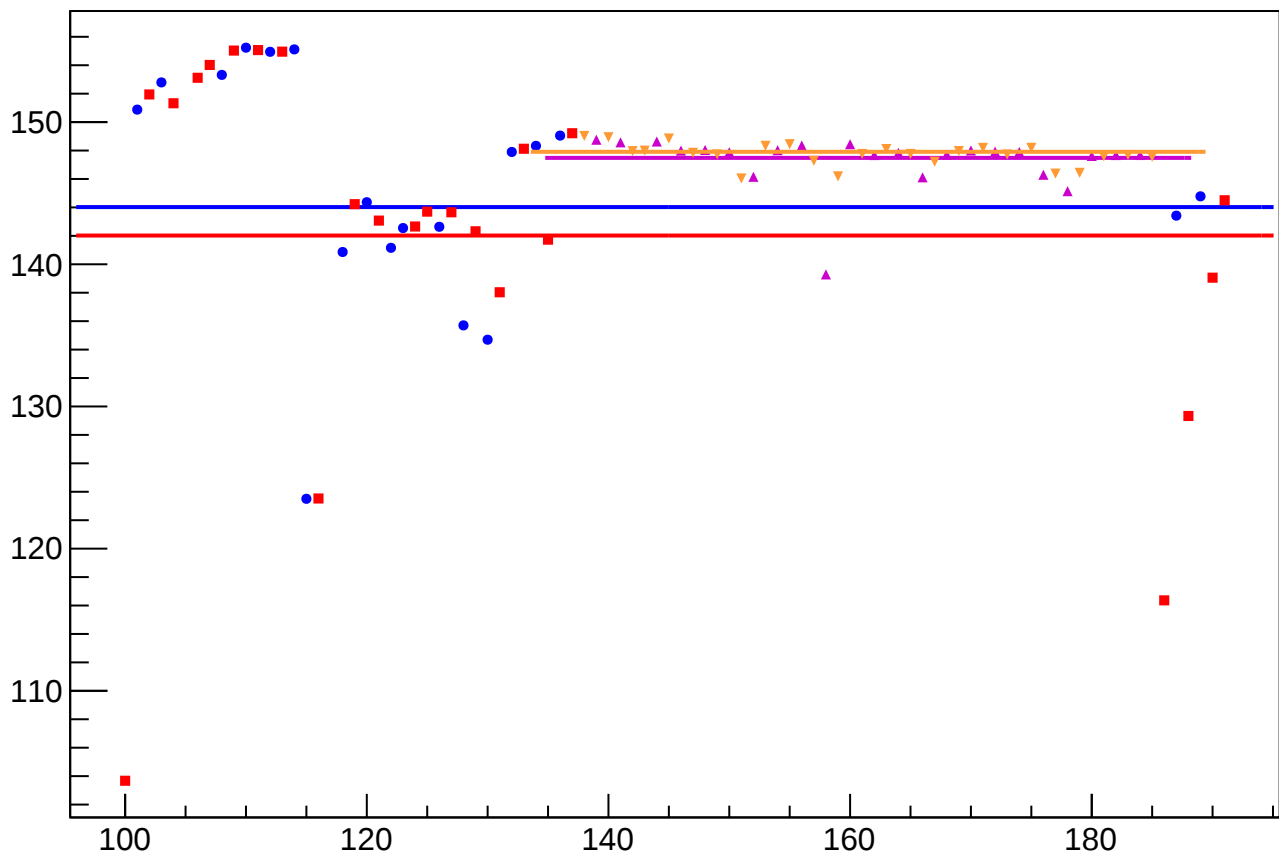
Right: 0.329+/-0.000 χ^2/NDF : 2606277.6/41

In: 0.391+/-0.000 χ^2/NDF :3715606.3/41

Out: 0.390+/-0.000 χ^2/NDF :3961251.0/47

All: 0.390+/-0.000 χ^2/NDF : 7677270.6/89

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.023+/-0.000 χ^2/NDF : 3663828825.1/18

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

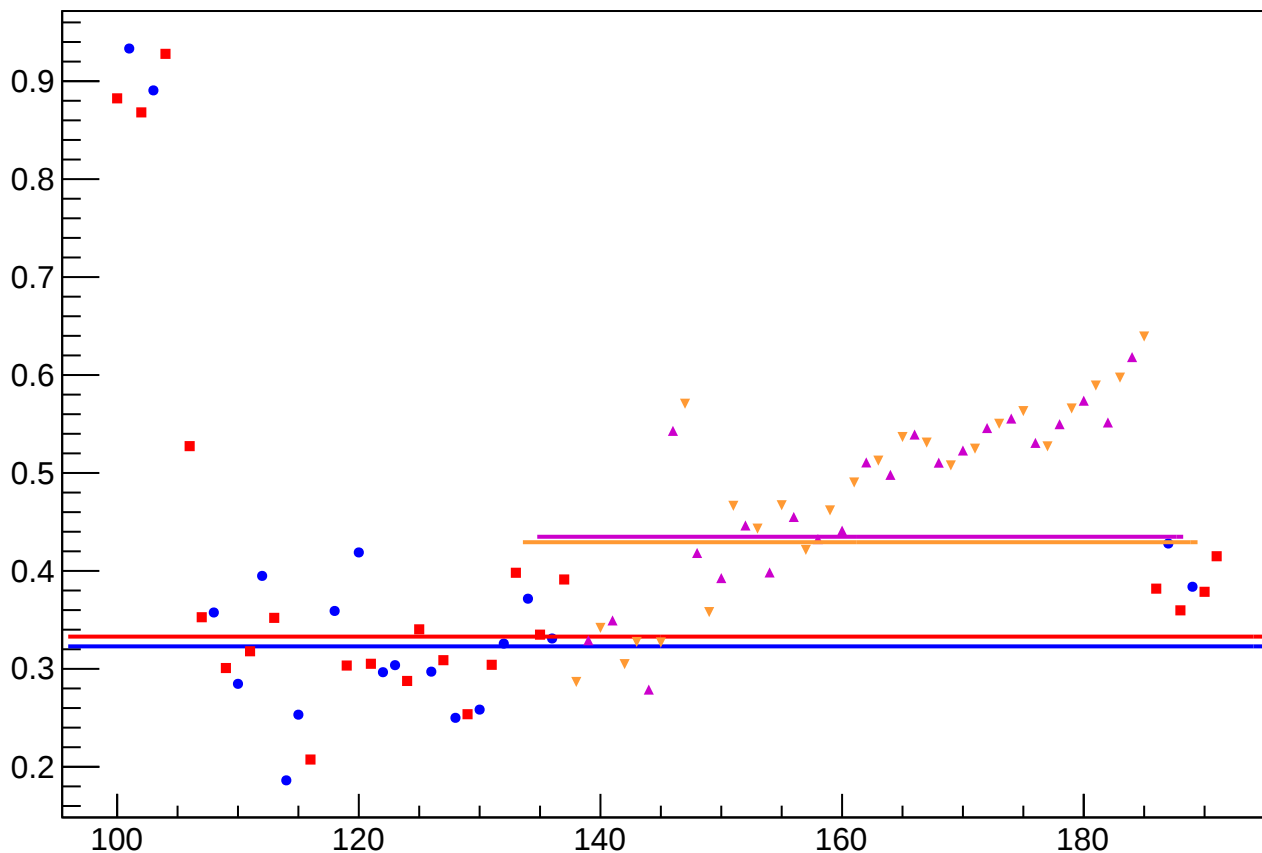
Right: 142.945+/-0.000 χ^2/NDF : 11409600520.3/41

In: 146.073+/-0.000 χ^2/NDF : 4422967171.3/41

Out: 145.393+/-0.000 χ^2/NDF : 9045938096.7/47

All: 145.715+/-0.000 χ^2/NDF : 13503917194.

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1329896.2/18

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

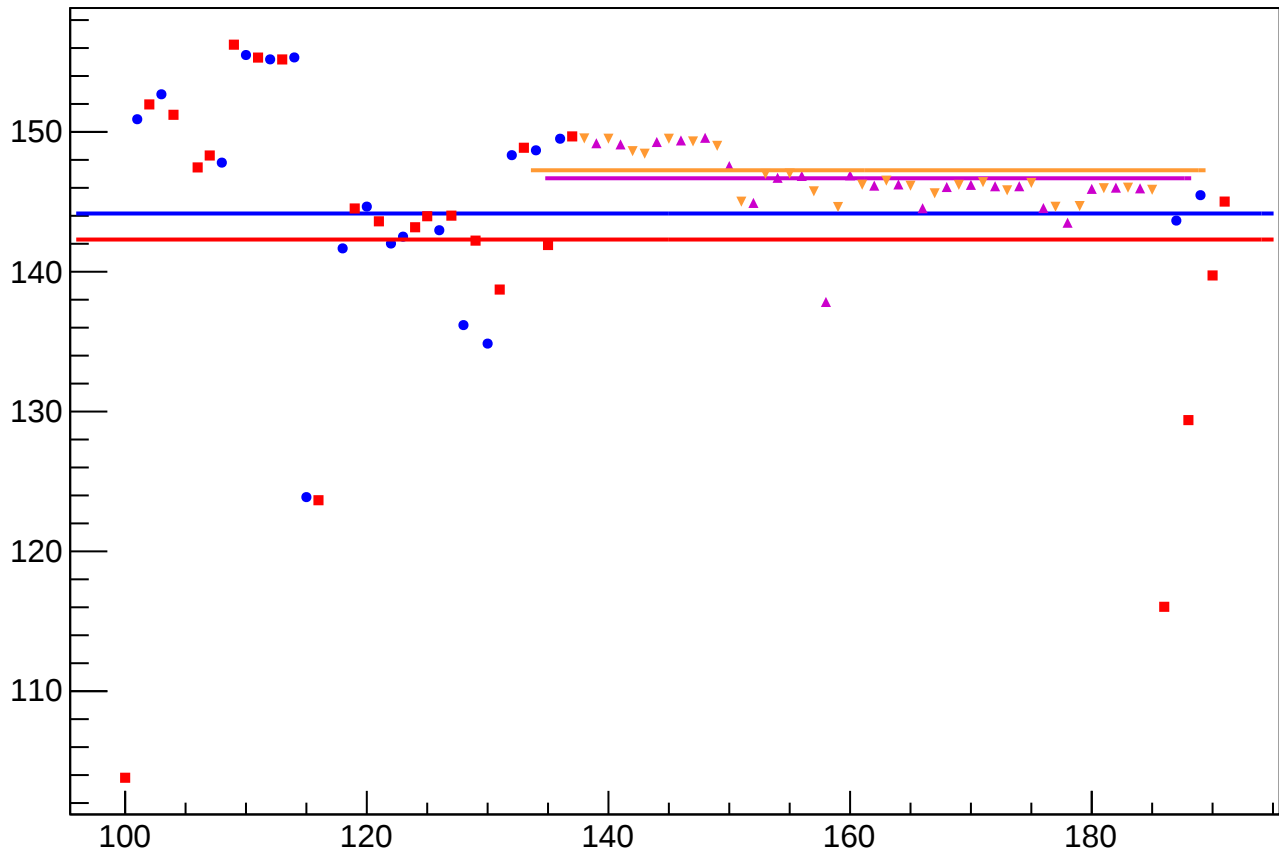
Right: 0.328+/-0.000 χ^2/NDF : 2616581.6/41

In: 0.389+/-0.000 χ^2/NDF :3686993.4/41

Out: 0.388+/-0.000 χ^2/NDF :3901642.1/47

All: 0.389+/-0.000 χ^2/NDF : 7588839.7/89

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.165 ± 0.000 $\chi^2/\text{NDF}: 3165256558.6/18$

Left Out: 147.257 ± 0.000 $\chi^2/\text{NDF}: 261906278.3/24$

Right Out: 142.304 ± 0.000 $\chi^2/\text{NDF}: 6921356369.1/22$

Left In: 146.685 ± 0.000 $\chi^2/\text{NDF}: 554922388.0/22$

Left: 146.981 ± 0.000 $\chi^2/\text{NDF}: 830580031.2/47$

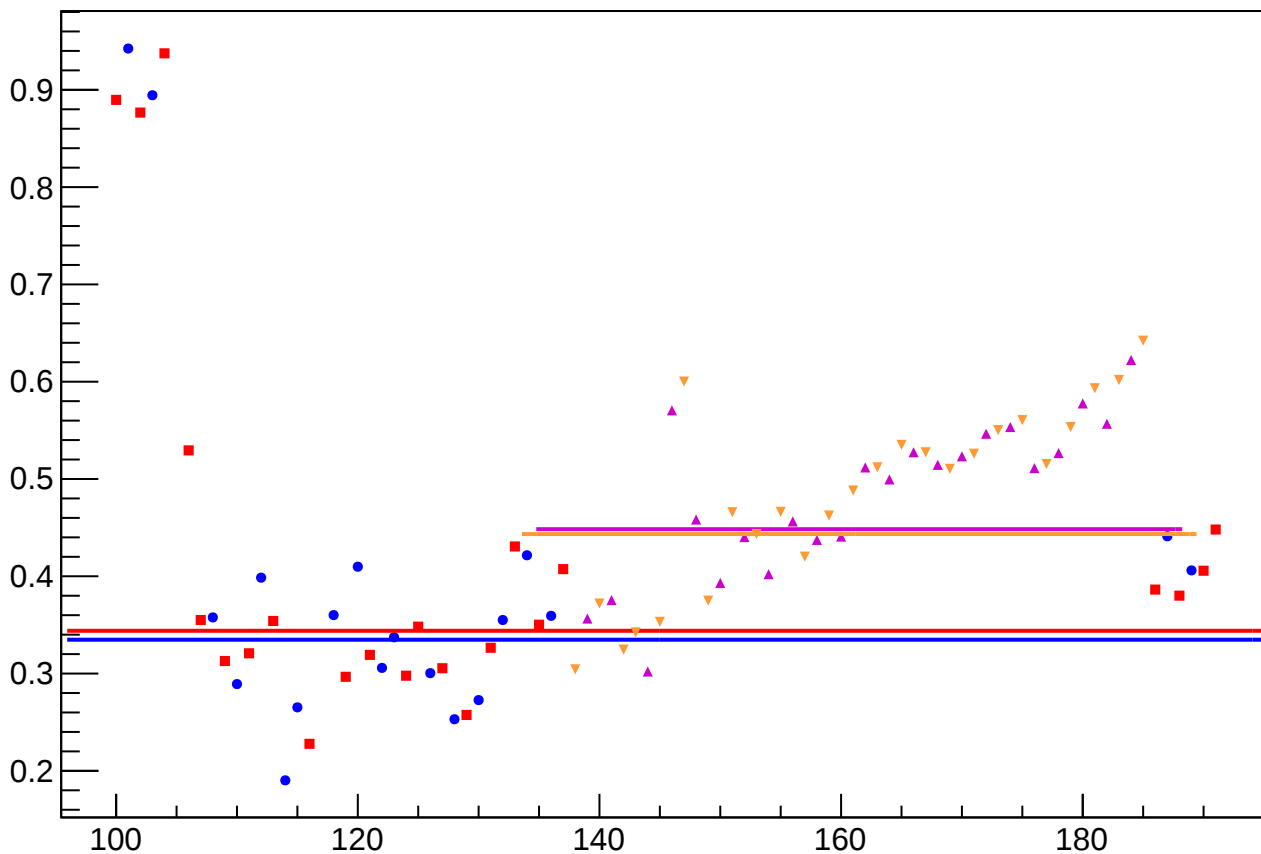
Right: 143.159 ± 0.000 $\chi^2/\text{NDF}: 10188628628.9/41$

In: 145.672 ± 0.000 $\chi^2/\text{NDF}: 3926988798.4/41$

Out: 145.155 ± 0.000 $\chi^2/\text{NDF}: 8088370362.0/47$

All: 145.400 ± 0.000 $\chi^2/\text{NDF}: 12034443290.0/90$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.335 $\pm$ 0.000 χ^2 /NDF: 1316637.8/18

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.344 $\pm$ 0.000 χ^2 /NDF: 1256902.0/22

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2602838.0/47

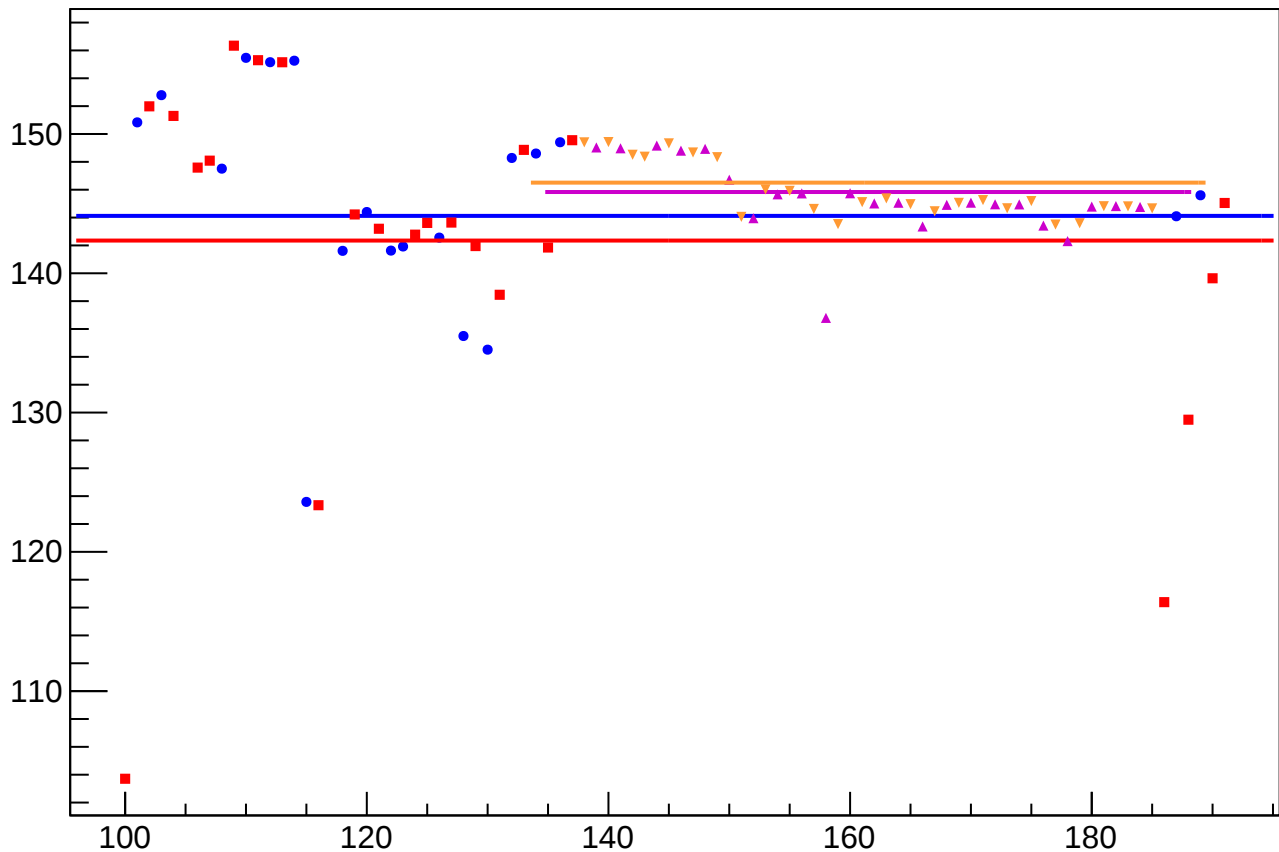
Right: 0.340 $\pm$ 0.000 χ^2 /NDF: 2578505.5/41

In: 0.403 $\pm$ 0.000 χ^2 /NDF:3277554.9/41

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:3466334.5/47

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 6744225.6/89

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.121+/-0.000 χ^2/NDF : 3285364402.9/18

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

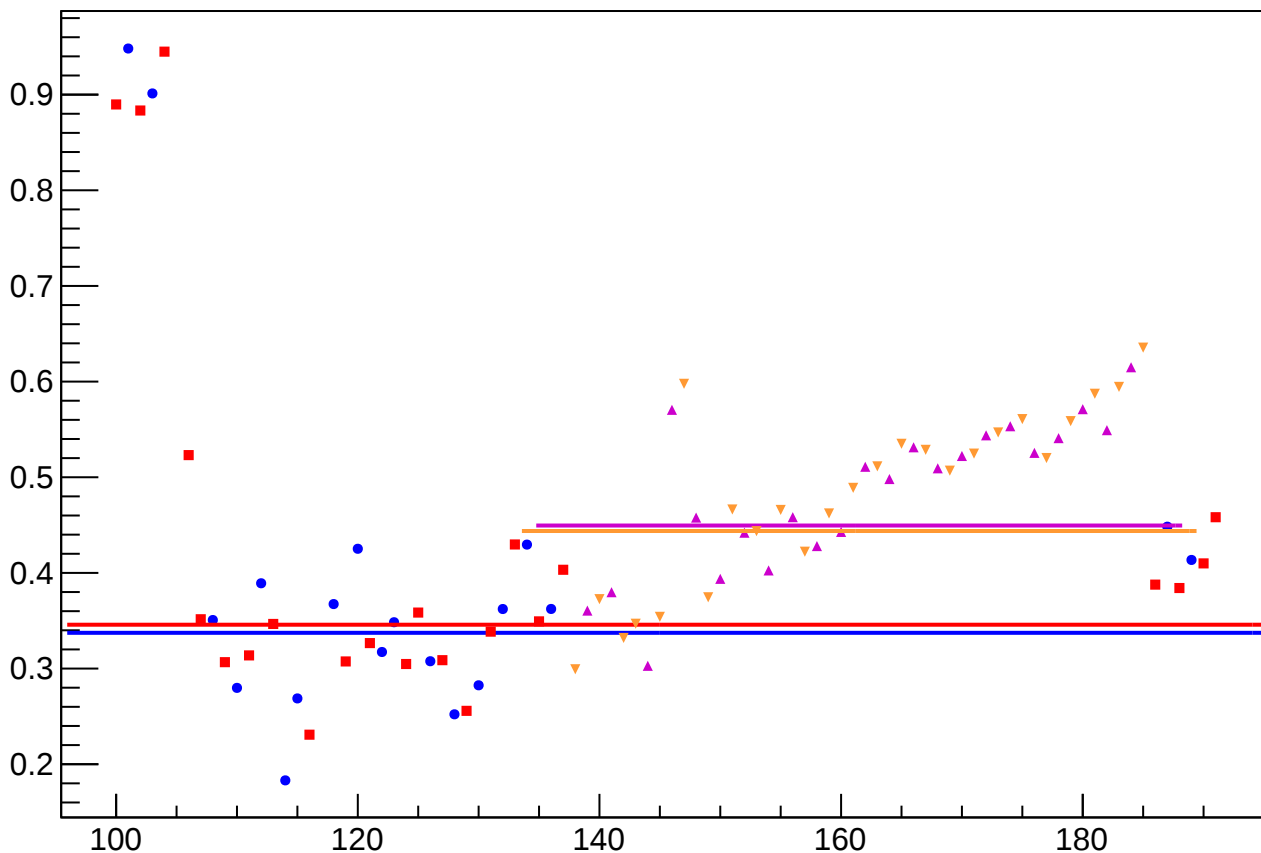
Right: 143.161+/-0.000 χ^2/NDF : 10280015346.1/41

In: 145.152+/-0.000 χ^2/NDF : 4069873044.0/41

Out: 144.755+/-0.000 χ^2/NDF : 7937598574.6/47

All: 144.942+/-0.000 χ^2/NDF : 12018624648.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.337 $\pm$ 0.000 χ^2 /NDF: 1337807.0/18

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

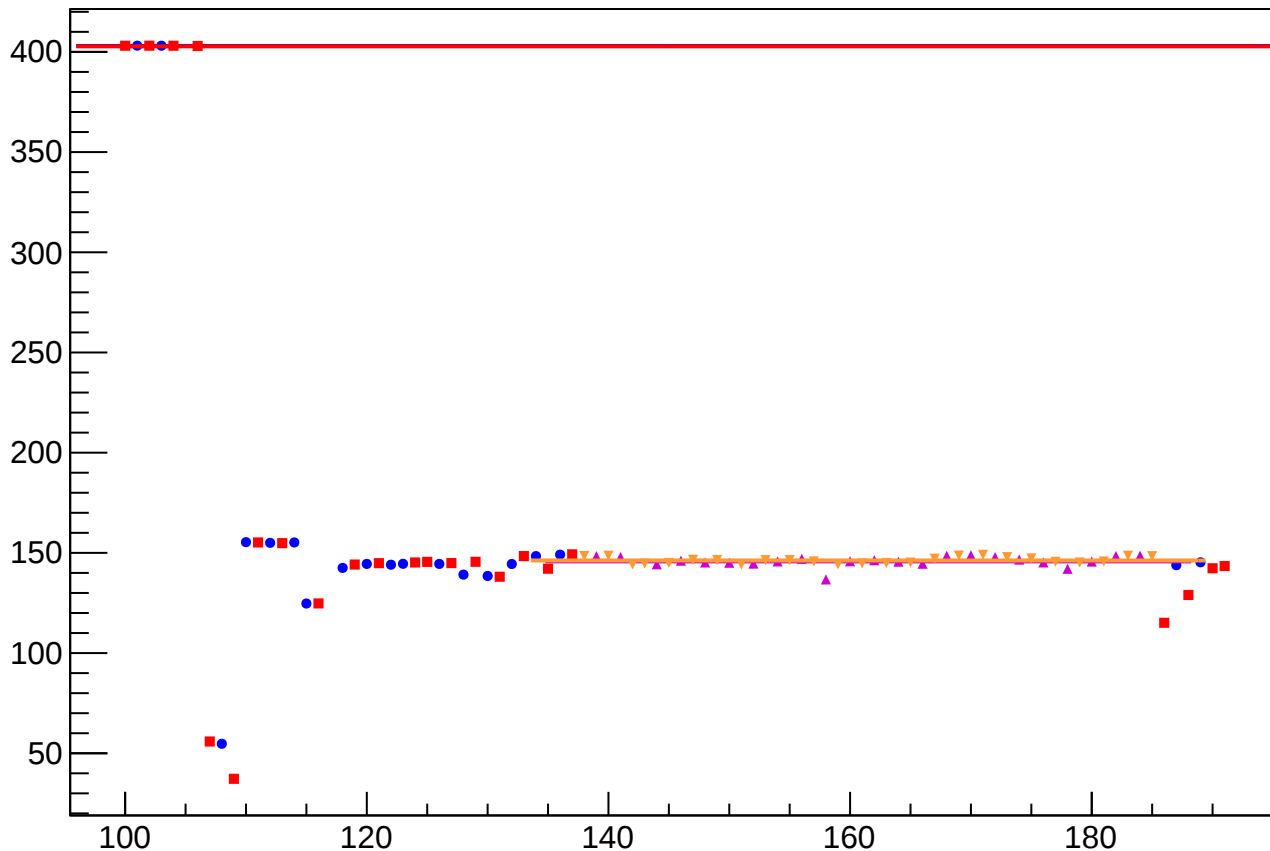
Right: 0.342 $\pm$ 0.000 χ^2 /NDF: 2593921.4/41

In: 0.405 $\pm$ 0.000 χ^2 /NDF:3239041.4/41

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:3414322.8/47

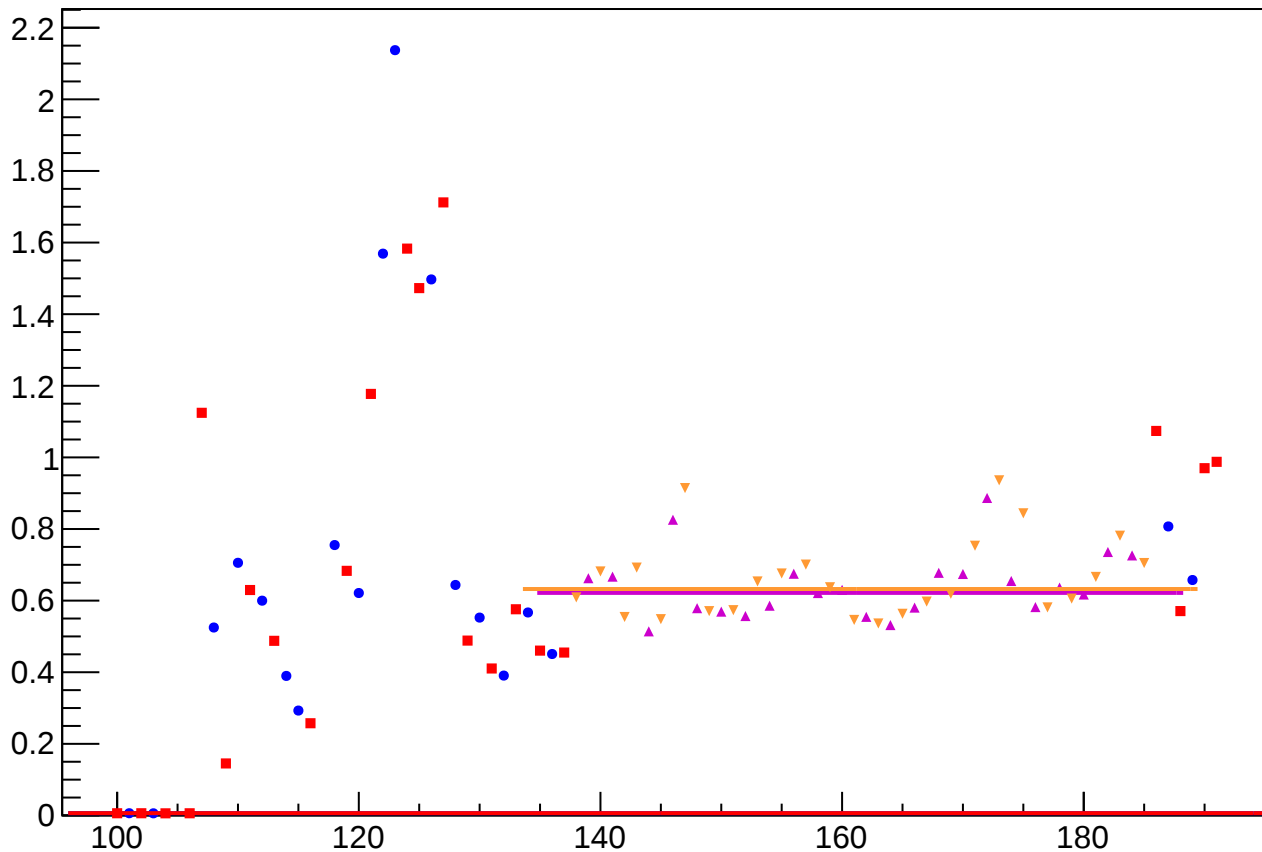
All: 0.404 $\pm$ 0.000 χ^2 /NDF: 6654144.5/89

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.949+/-0.000	χ^2/NDF : 1164491503604.6/18	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.856+/-0.000	χ^2/NDF : 4496253209092.8/18
Right Out: 402.775+/-0.000	χ^2/NDF : 3331261787463.1/22	In: 402.658+/-0.000	χ^2/NDF : 3496608119524.9/47
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.514+/-0.000	χ^2/NDF : 5689520753592.8/47
		All: 402.582+/-0.000	χ^2/NDF : 918646955168.0/47

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 10055779.7/18

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

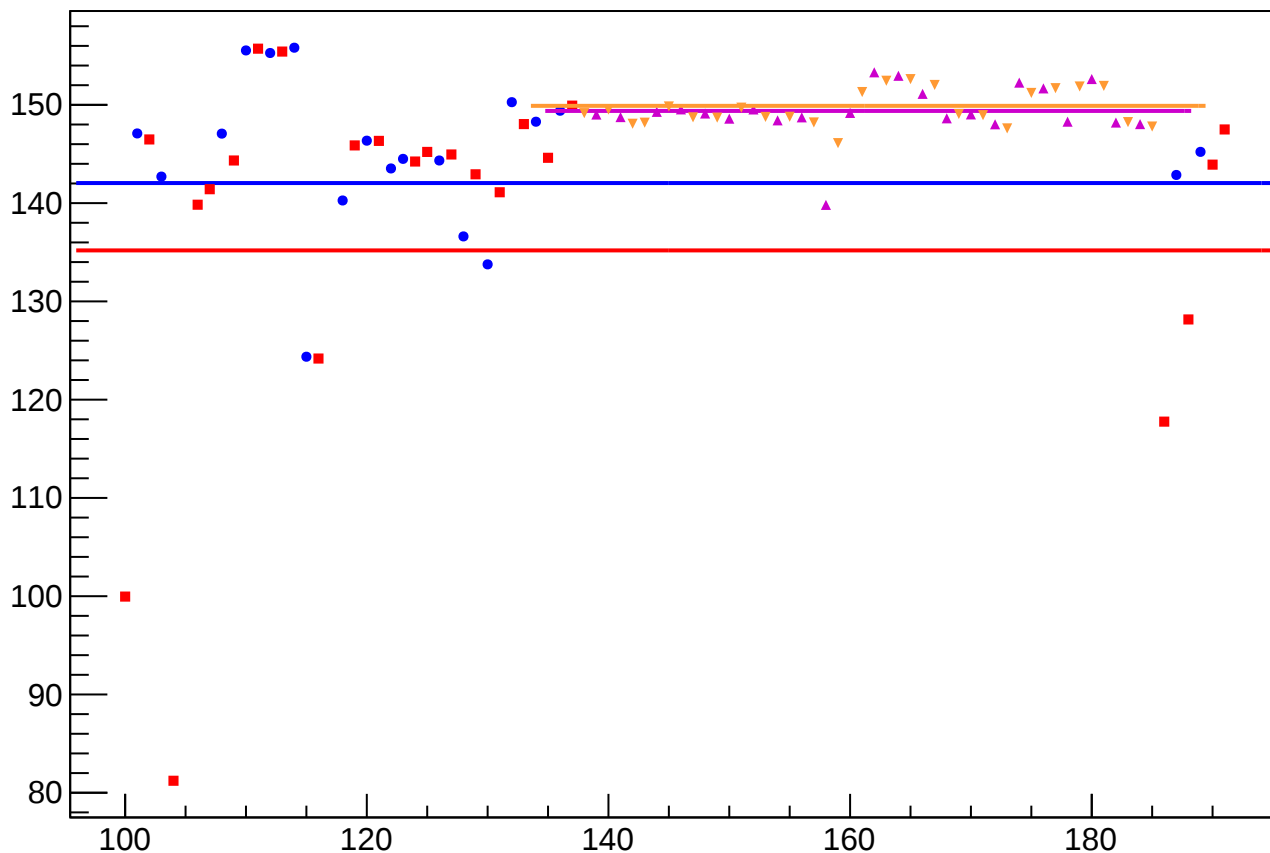
Right: 0.006+/-0.000 χ^2/NDF : 22180025.5/41

In: 0.007+/-0.000 χ^2/NDF : 37143672.1/41

Out: 0.007+/-0.000 χ^2/NDF : 40818773.4/47

All: 0.007+/-0.000 χ^2/NDF : 77962487.6/89

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 142.043 $\pm$ 0.000 χ^2 /NDF: 992710458.8/18

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

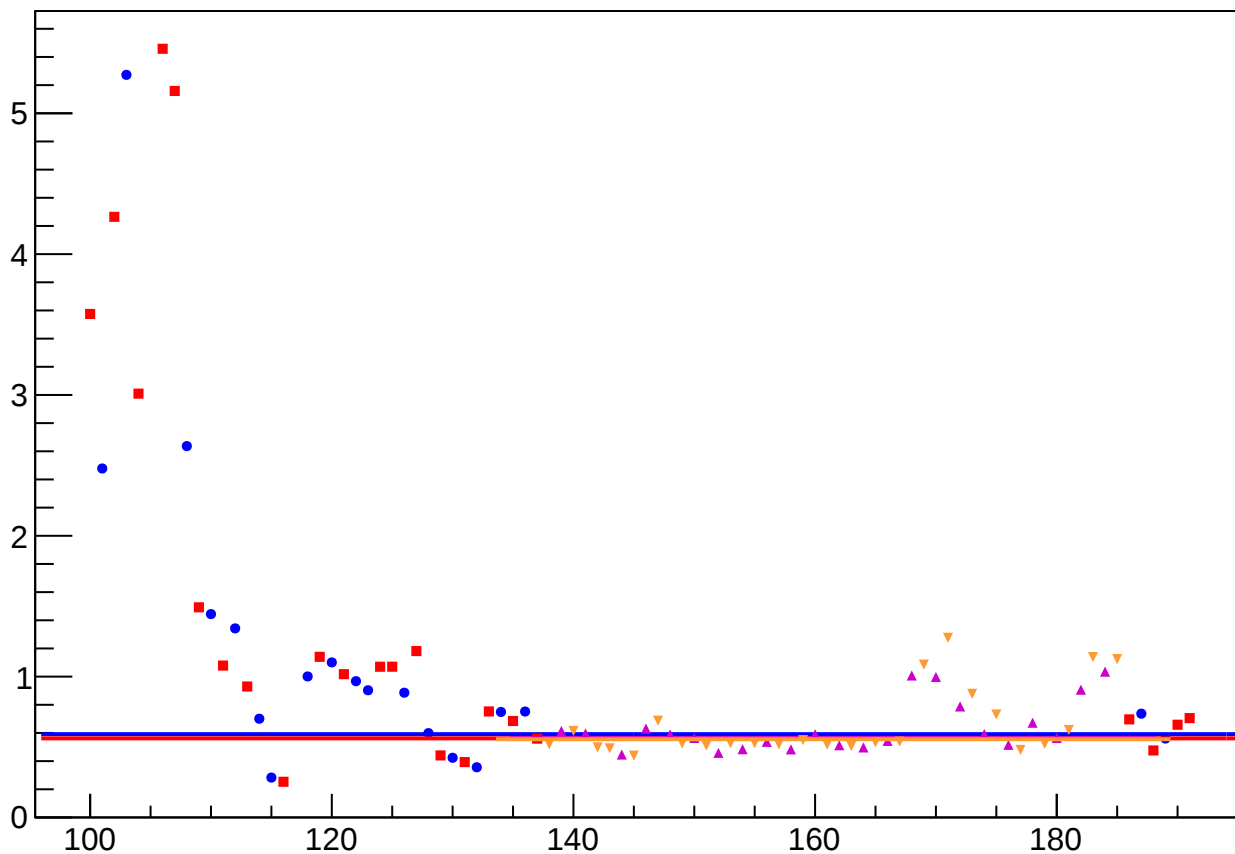
Right: 138.126 $\pm$ 0.000 χ^2 /NDF: 3132944690.4/41

In: 147.944 $\pm$ 0.000 χ^2 /NDF: 1926377079.7/41

Out: 146.481 $\pm$ 0.000 χ^2 /NDF: 4546251184.4/47

All: 147.169 $\pm$ 0.000 χ^2 /NDF: 6539229920.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.591+/-0.000 χ^2 /NDF: 3530878.6/18

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

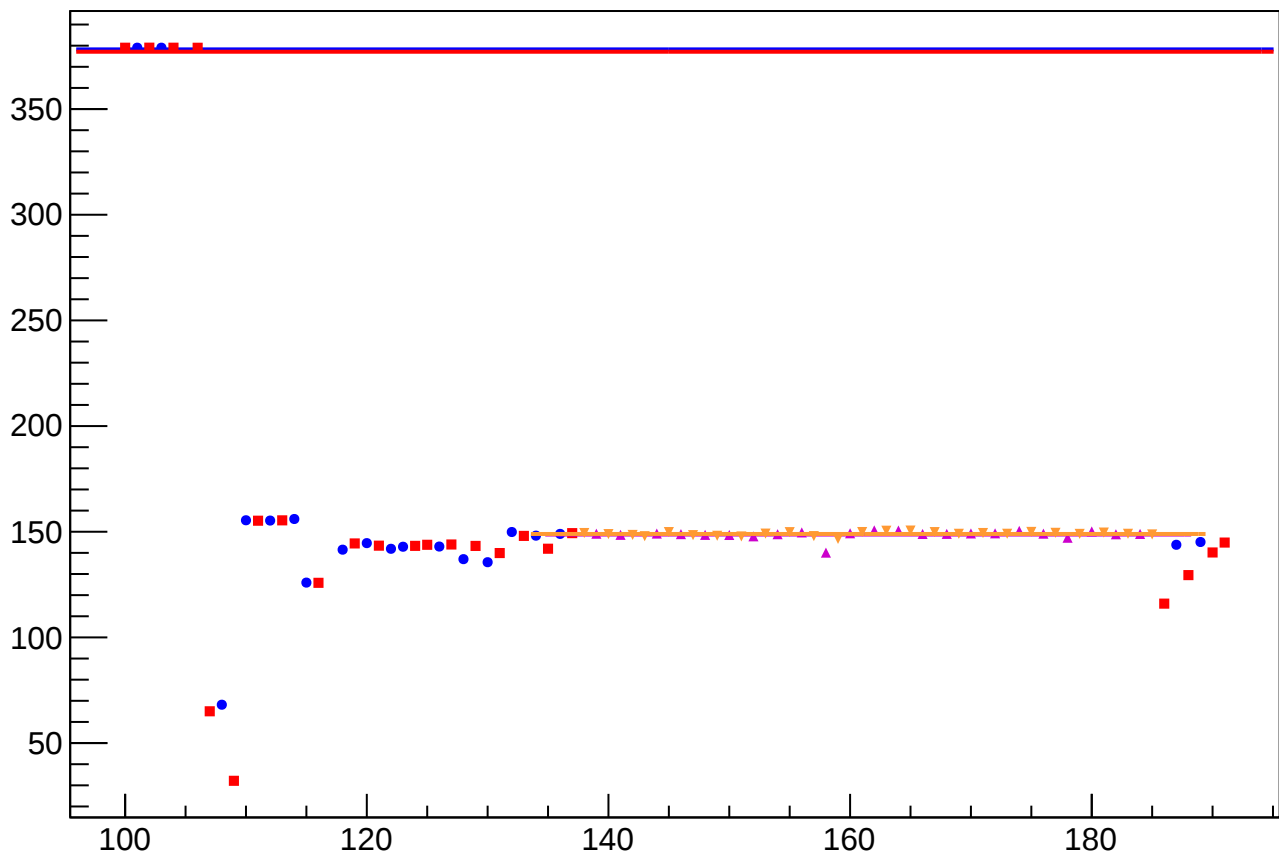
Right: 0.574+/-0.000 χ^2 /NDF: 8286743.7/41

In: 0.568+/-0.000 χ^2 /NDF:4852681.7/41

Out: 0.557+/-0.000 χ^2 /NDF:6518632.6/47

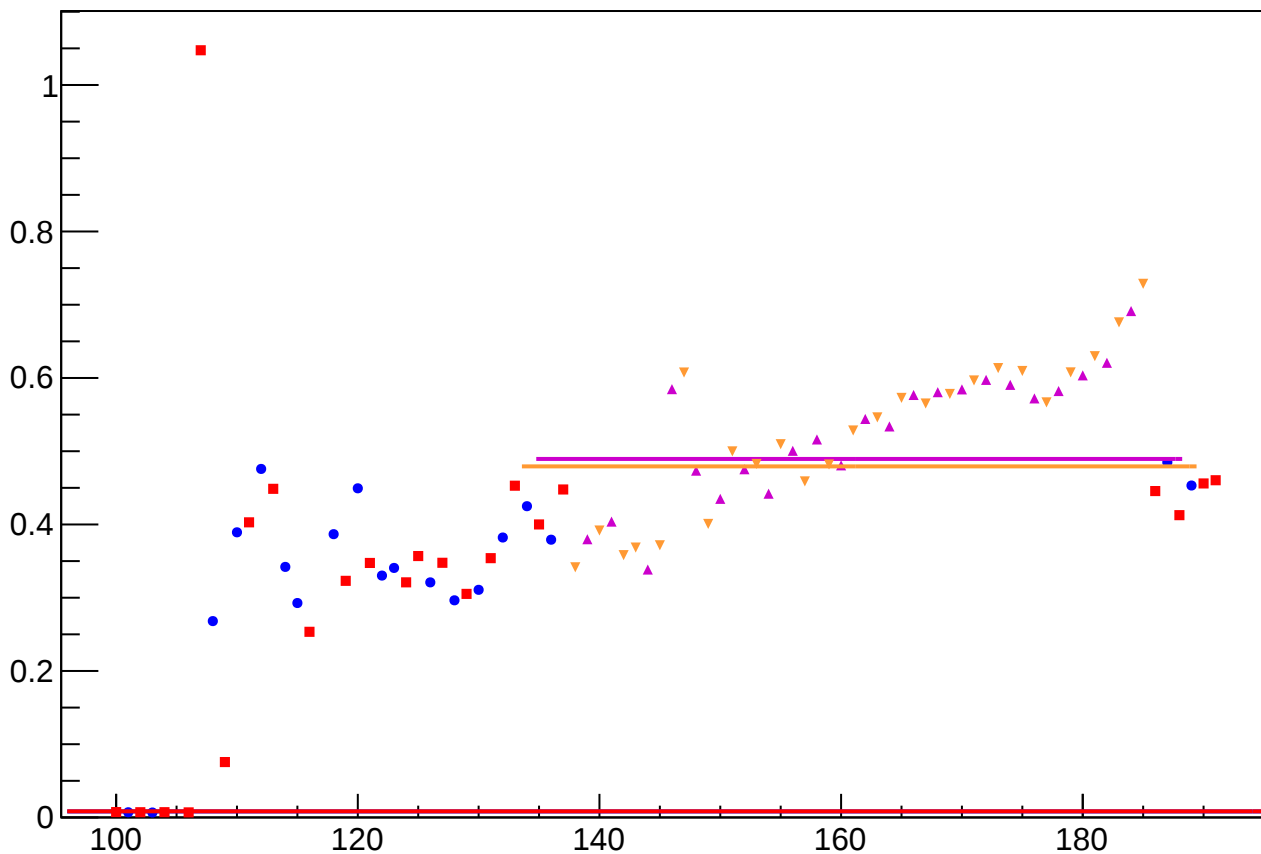
All: 0.562+/-0.000 χ^2 /NDF: 11378427.8/89

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.239 $\pm$ 0.000 χ^2 /NDF: 2643167195669.4/18
 Left Out: 148.944 $\pm$ 0.000 χ^2 /NDF: 63976941.3/24
 Right Out: 377.135 $\pm$ 0.000 χ^2 /NDF: 8857253897443.0/22
 Left In: 148.672 $\pm$ 0.000 χ^2 /NDF: 252846428.3/22
 Left: 148.814 $\pm$ 0.000 χ^2 /NDF: 319467494.9/47
 Right: 377.651 $\pm$ 0.000 χ^2 /NDF: 11509066861379.9
 In: 377.066 $\pm$ 0.000 χ^2 /NDF: 6229548241657.6/47
 Out: 376.019 $\pm$ 0.000 χ^2 /NDF: 12728123583163.7
 All: 376.508 $\pm$ 0.000 χ^2 /NDF: 189654969236

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 10972410.0/18

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

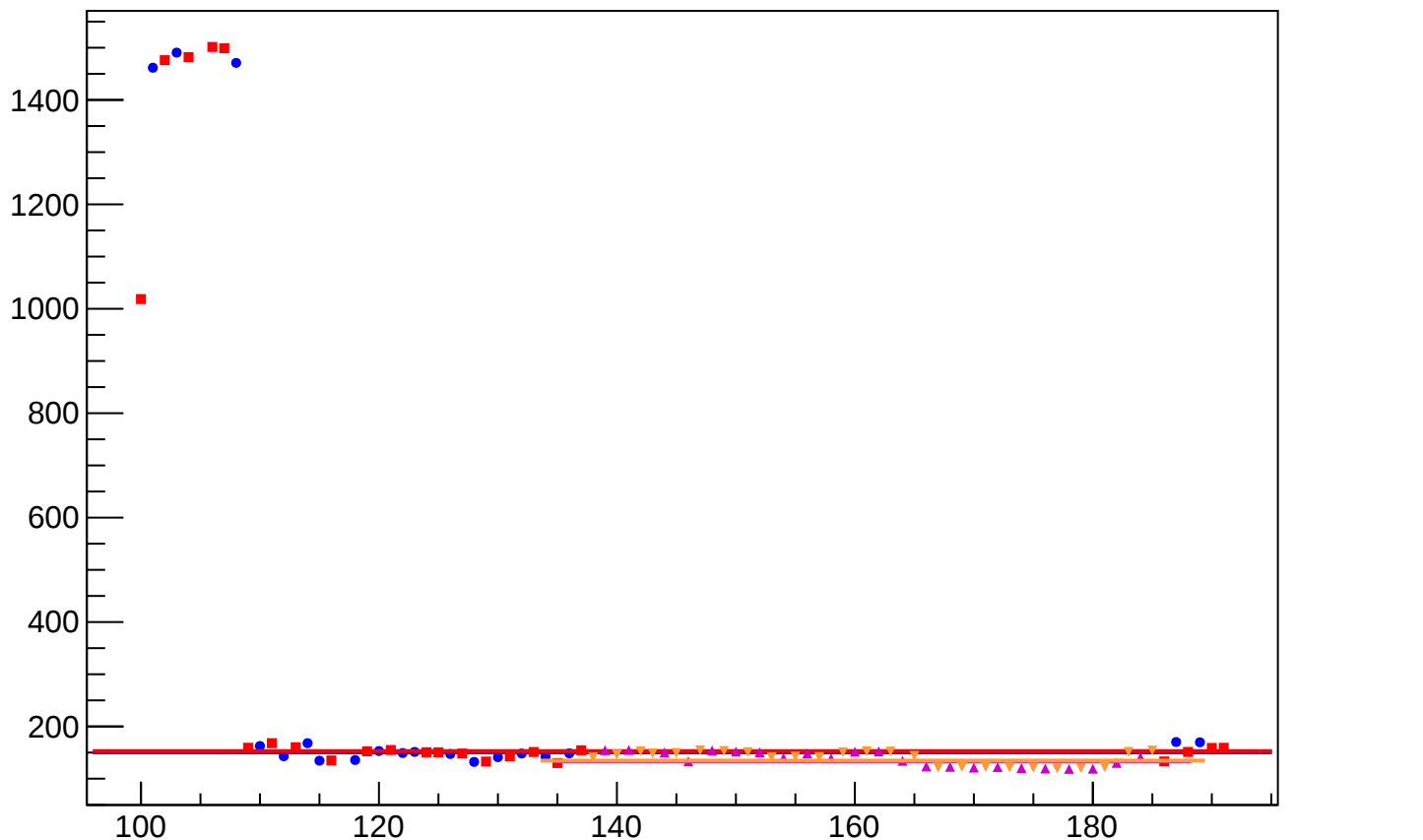
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 23892622.5/41

In: 0.011 $\pm$ 0.000 χ^2 /NDF:43568318.7/41

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:47403449.0/47

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 90971790.9/89

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 150.641+/-0.000

χ^2/NDF : 24818171492.3/18

Left: 133.958+/-0.000

χ^2/NDF : 8697951676.8/47

Right: 151.934+/-0.000

χ^2/NDF : 58852911613.5/41

Left Out: 134.554+/-0.000

χ^2/NDF : 4376966869.3/24

In: 137.138+/-0.000

χ^2/NDF : 30617443817.2/41

Right Out: 152.842+/-0.000

χ^2/NDF : 34016532868.9/22

Out: 139.629+/-0.000

χ^2/NDF : 40594529388.6/47

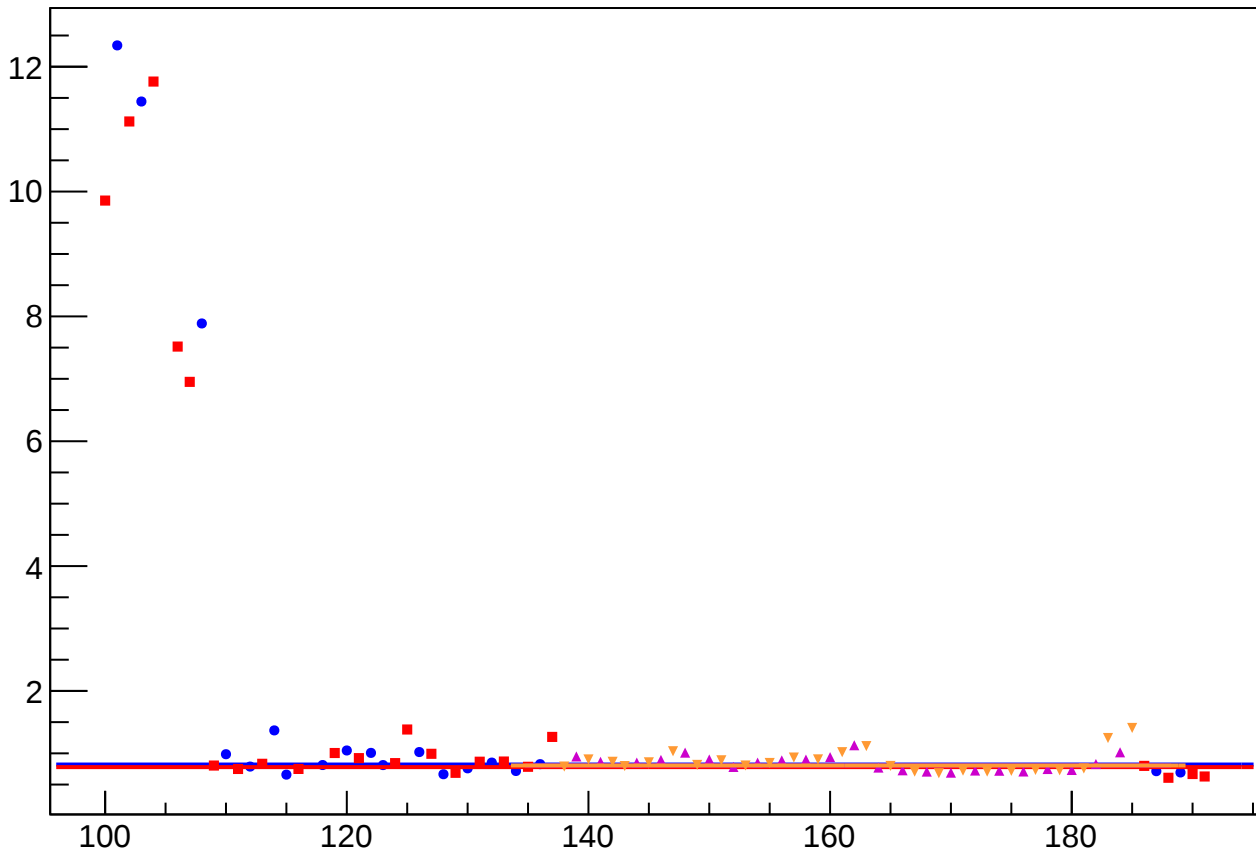
Left In: 133.337+/-0.000

χ^2/NDF : 4303812119.2/22

All: 138.457+/-0.000

χ^2/NDF : 71307778789.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.821+/-0.000 χ^2/NDF : 2697592.1/18

Left Out: 0.806+/-0.000 χ^2/NDF : 690578.5/24

Right Out: 0.779+/-0.000 χ^2/NDF : 3091486.3/22

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1171131.4/47

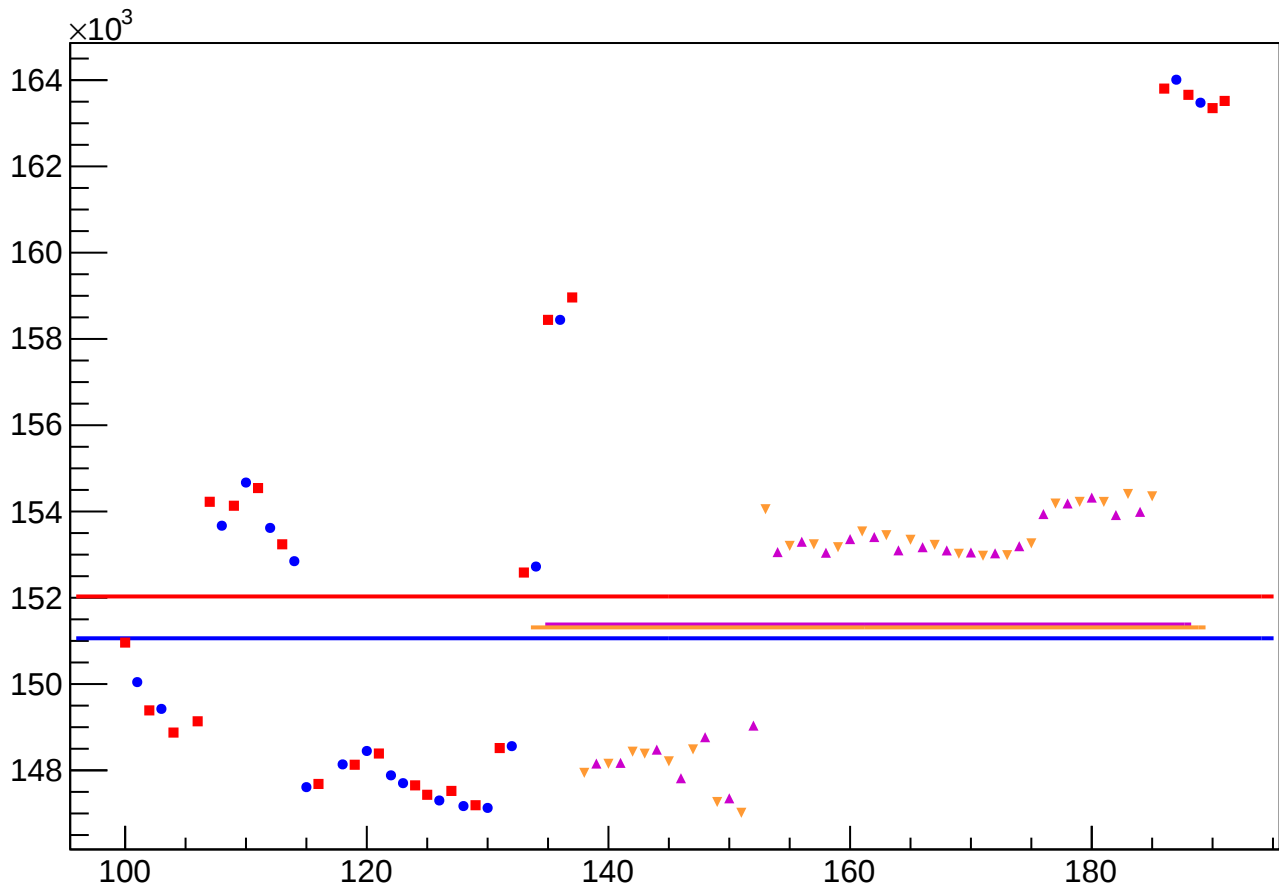
Right: 0.796+/-0.000 χ^2/NDF : 5802090.8/41

In: 0.808+/-0.000 χ^2/NDF : 3180714.0/41

Out: 0.799+/-0.000 χ^2/NDF : 3791505.9/47

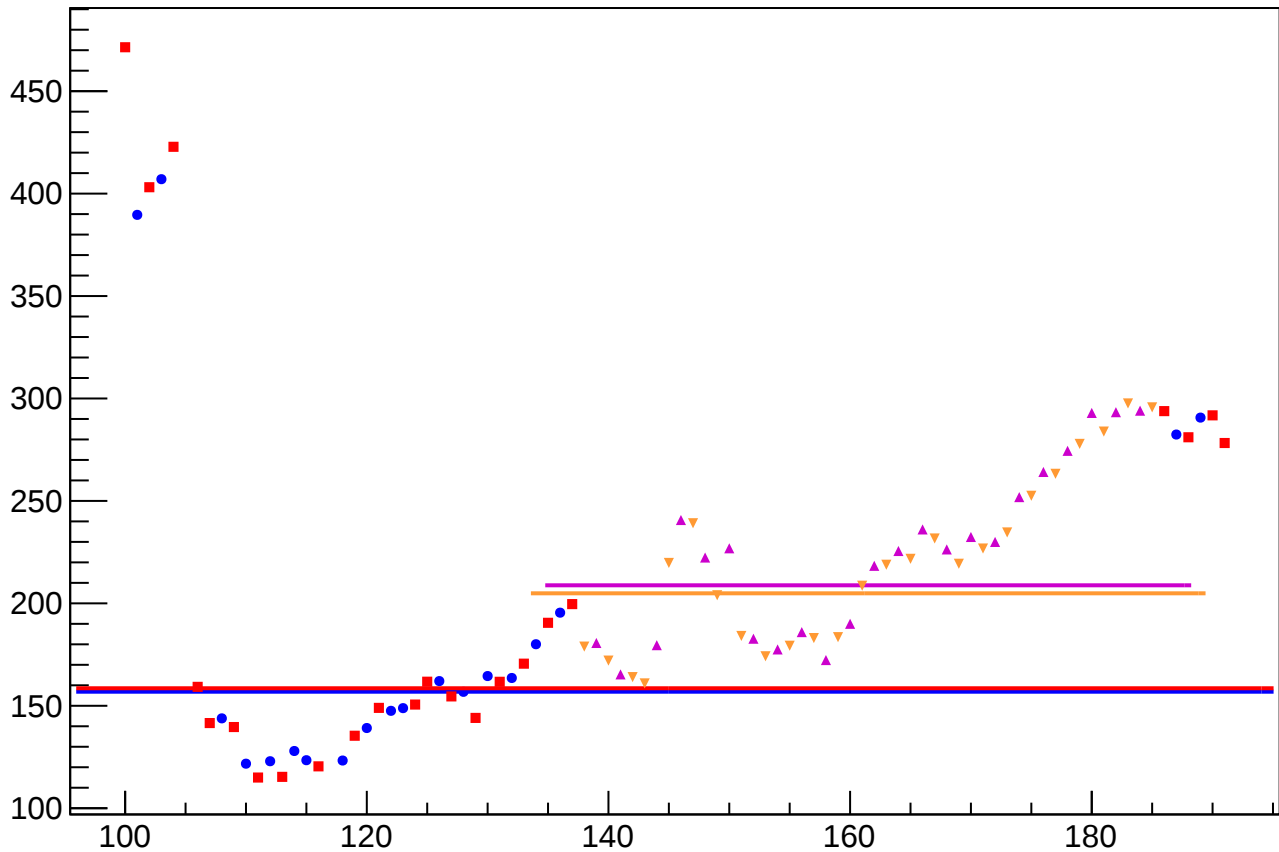
All: 0.803+/-0.000 χ^2/NDF : 6975086.8/89

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 151060.820 $\pm$ 0.062	χ^2 /NDF: 4525562323.6/18	Left: 151345.082 $\pm$ 0.035	χ^2 /NDF: 5518562148.3/4
Left Out: 151313.284 $\pm$ 0.049	χ^2 /NDF: 3153768134.8/24	Right: 151584.048 $\pm$ 0.042	χ^2 /NDF: 11271473174.7
Right Out: 152030.411 $\pm$ 0.057	χ^2 /NDF: 6614639561.2/22	In: 151251.172 $\pm$ 0.040	χ^2 /NDF: 6905190861.5/4
Left In: 151380.236 $\pm$ 0.051	χ^2 /NDF: 2363895785.3/22	Out: 151613.210 $\pm$ 0.037	χ^2 /NDF: 9859155292.7/4
		All: 151443.438 $\pm$ 0.027	χ^2 /NDF: 168089216

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 156.878 $\pm$ 0.044 χ^2 /NDF: 1424682.5/18

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

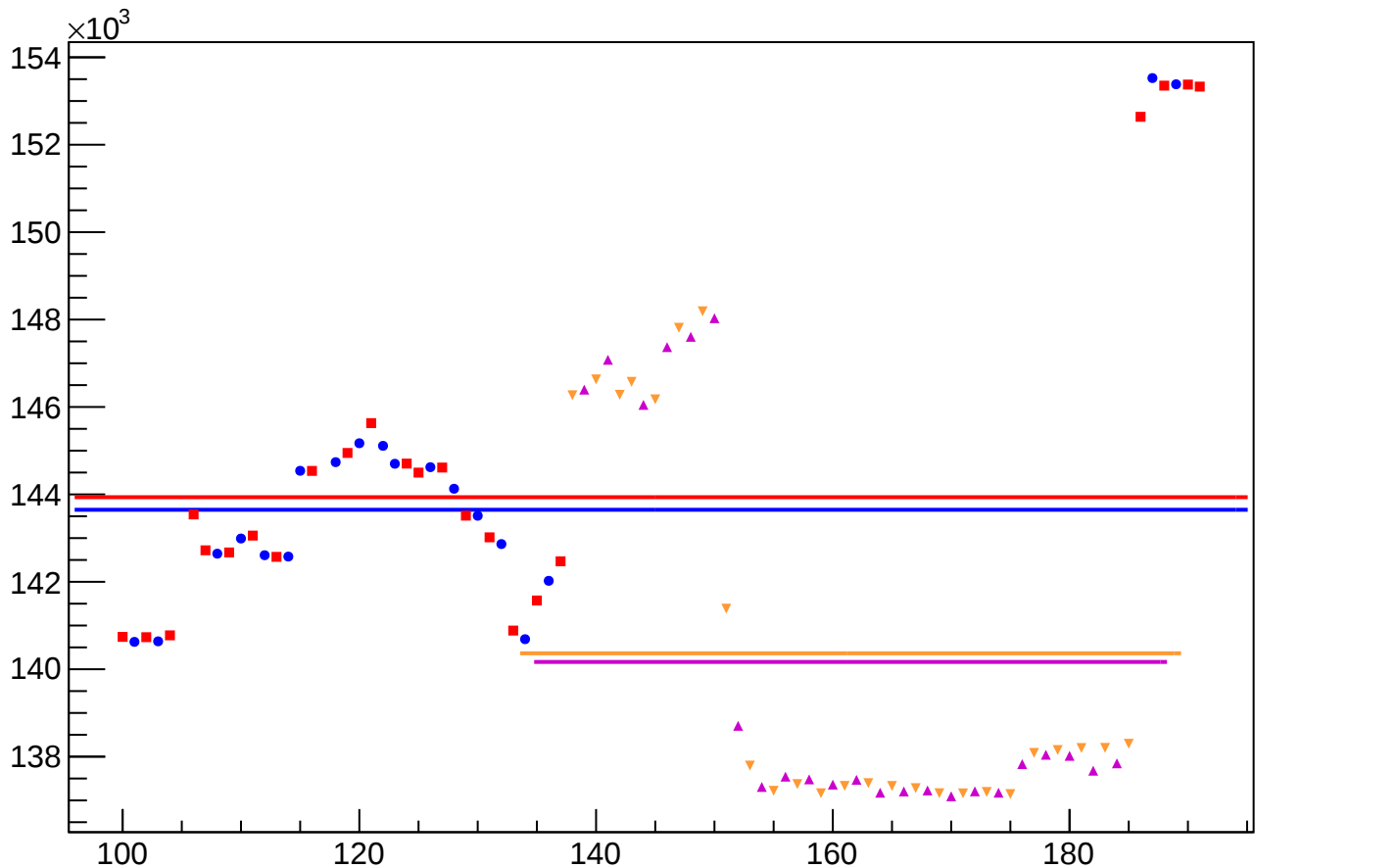
Right: 157.783 $\pm$ 0.030 χ^2 /NDF: 3407006.5/41

In: 187.828 $\pm$ 0.028 χ^2 /NDF:3258433.7/41

Out: 185.516 $\pm$ 0.026 χ^2 /NDF:3795948.3/47

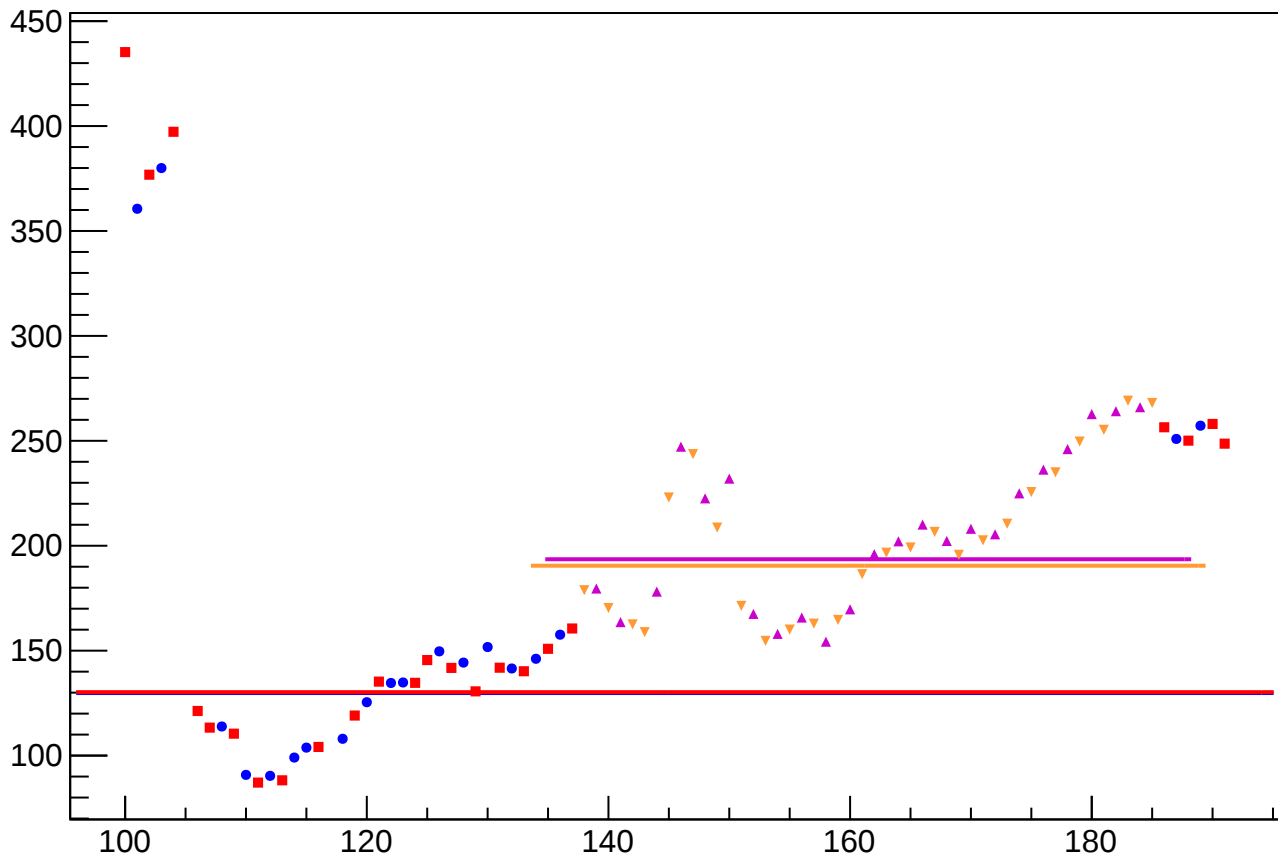
All: 186.600 $\pm$ 0.019 χ^2 /NDF: 7058016.3/89

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143648.150 $\pm$ 0.052 χ^2 /NDF: 1464786608.6/18
 Left Out: 140364.444 $\pm$ 0.045 χ^2 /NDF: 8677078677.7/24
 Right Out: 143935.819 $\pm$ 0.047 χ^2 /NDF: 3292757846.2/22
 Left In: 140166.971 $\pm$ 0.047 χ^2 /NDF: 8028464654.6/22
 Left: 140270.460 $\pm$ 0.033 χ^2 /NDF: 16714620354.4
 Right: 143805.322 $\pm$ 0.035 χ^2 /NDF: 4774202069.2
 In: 141745.328 $\pm$ 0.035 χ^2 /NDF: 11933702587.3/4
 Out: 142063.324 $\pm$ 0.033 χ^2 /NDF: 14937228975.9
 All: 141915.278 $\pm$ 0.024 χ^2 /NDF: 269148462

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 129.806+/-0.037 χ^2/NDF : 1755599.5/18

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 130.222+/-0.034 χ^2/NDF : 2392253.4/22

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

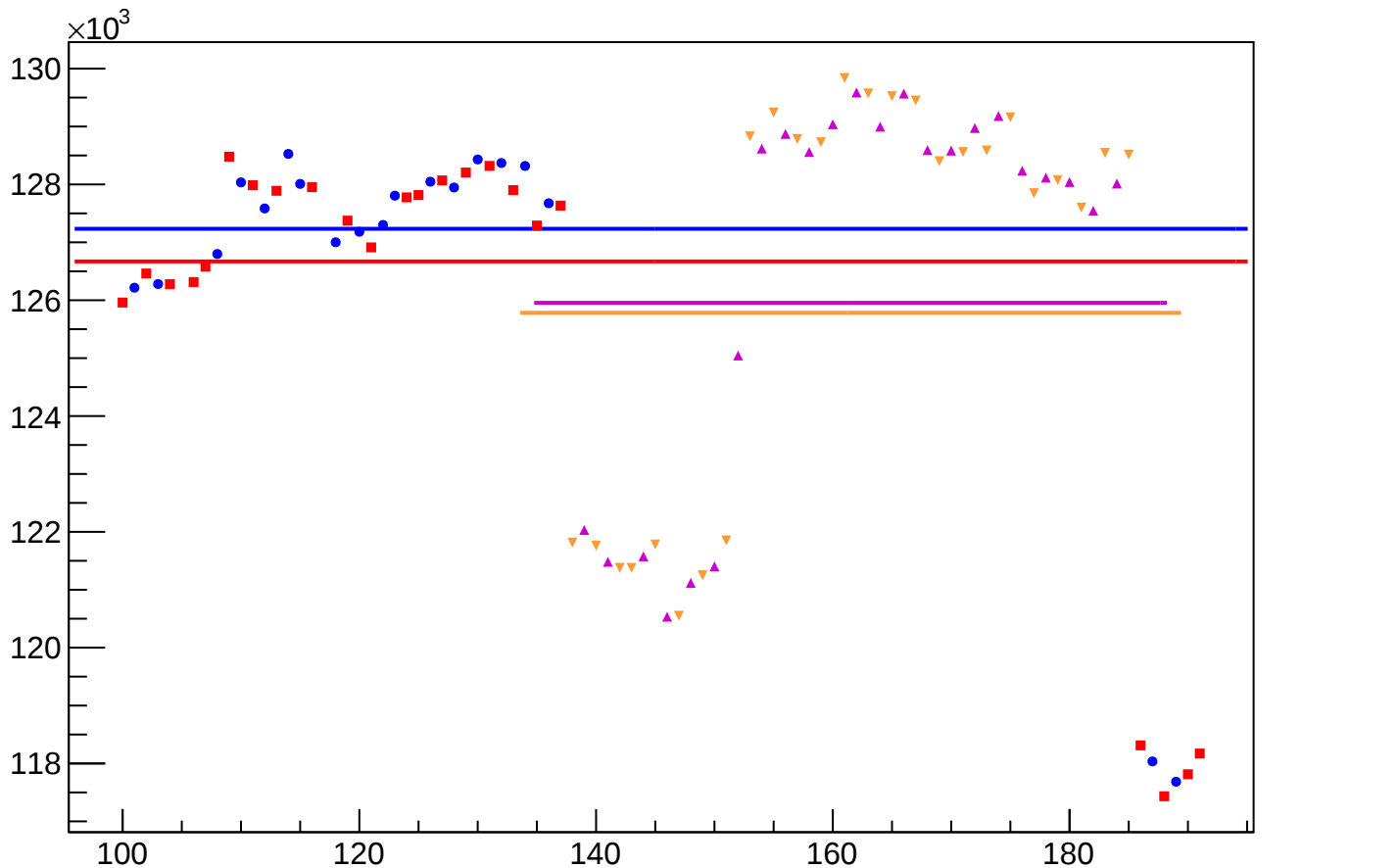
Right: 130.033+/-0.025 χ^2/NDF : 4147922.6/41

In: 164.653+/-0.025 χ^2/NDF : 4356220.1/41

Out: 161.819+/-0.023 χ^2/NDF : 5032334.6/47

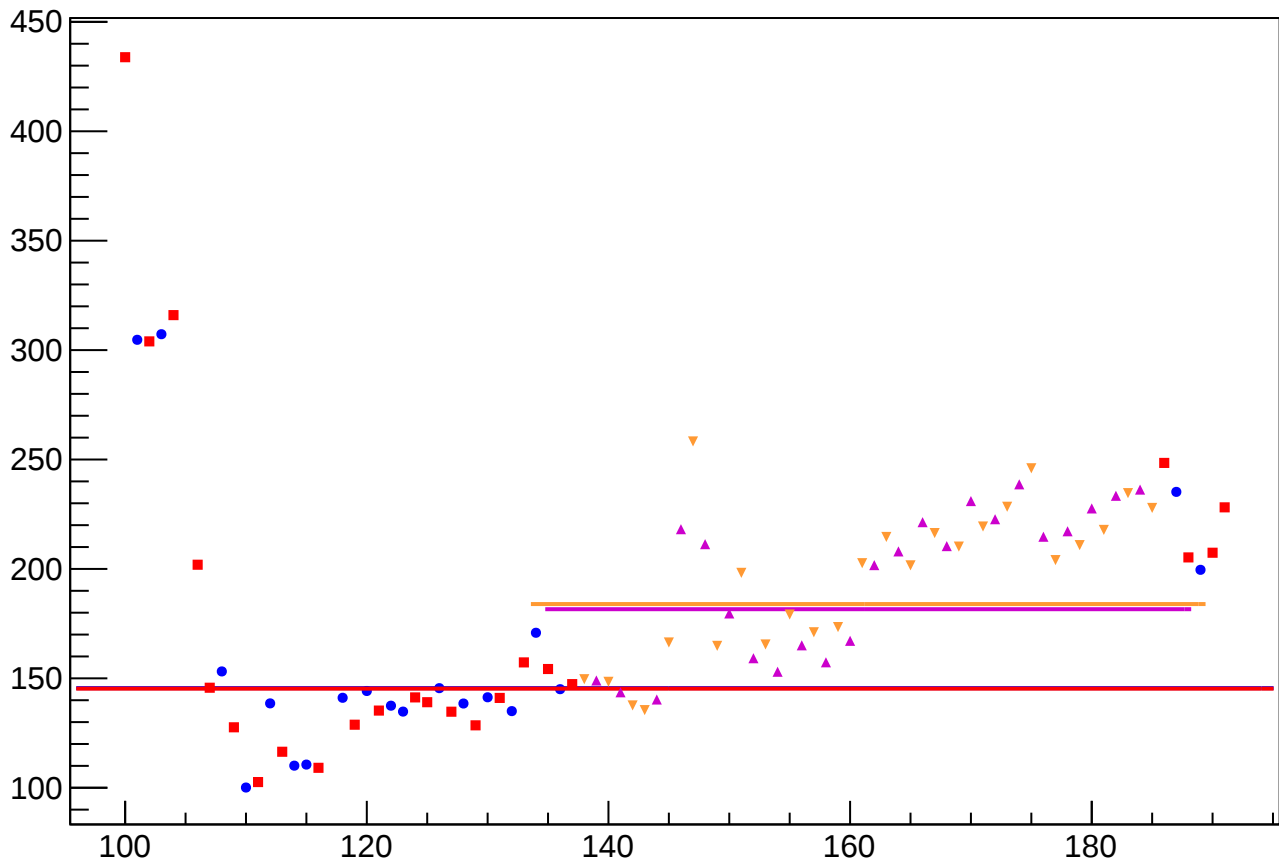
All: 163.138+/-0.017 χ^2/NDF : 9395532.7/89

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127233.704 $\pm$ 0.057	χ^2 /NDF: 1483224911.0/18	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/18
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 126924.745 $\pm$ 0.038	χ^2 /NDF: 5194502120.0/18
Right Out: 126669.720 $\pm$ 0.052	χ^2 /NDF: 3657236908.5/22	In: 126446.044 $\pm$ 0.035	χ^2 /NDF: 7599521104.6/41
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: 126294.018 $\pm$ 0.024	χ^2 /NDF: 181932233.5/18

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 145.520 $\pm$ 0.040 χ^2 /NDF: 953791.6/18

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 145.298 $\pm$ 0.036 χ^2 /NDF: 1409823.2/22

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

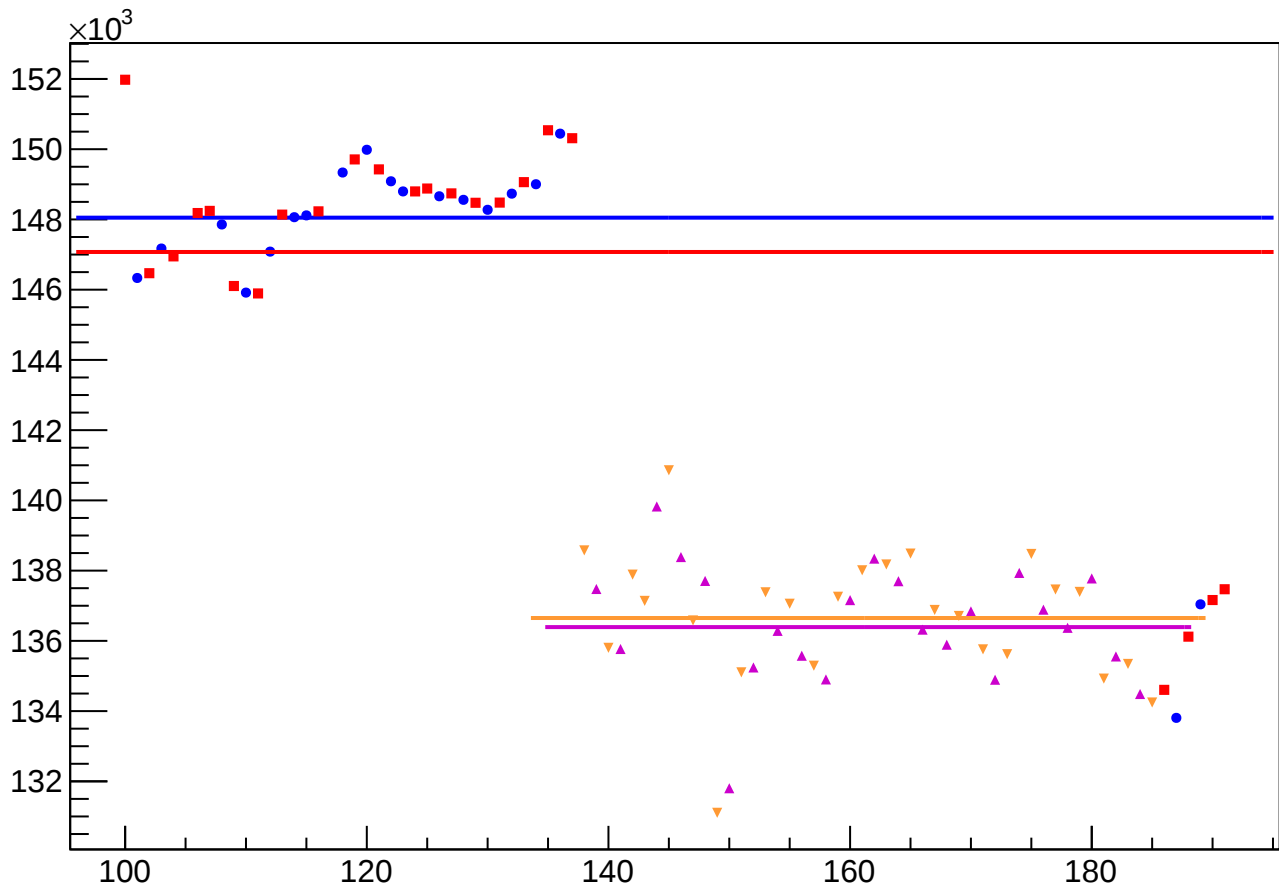
Right: 145.398 $\pm$ 0.027 χ^2 /NDF: 2363631.5/41

In: 167.753 $\pm$ 0.025 χ^2 /NDF: 2554820.4/41

Out: 167.671 $\pm$ 0.024 χ^2 /NDF: 3182762.3/47

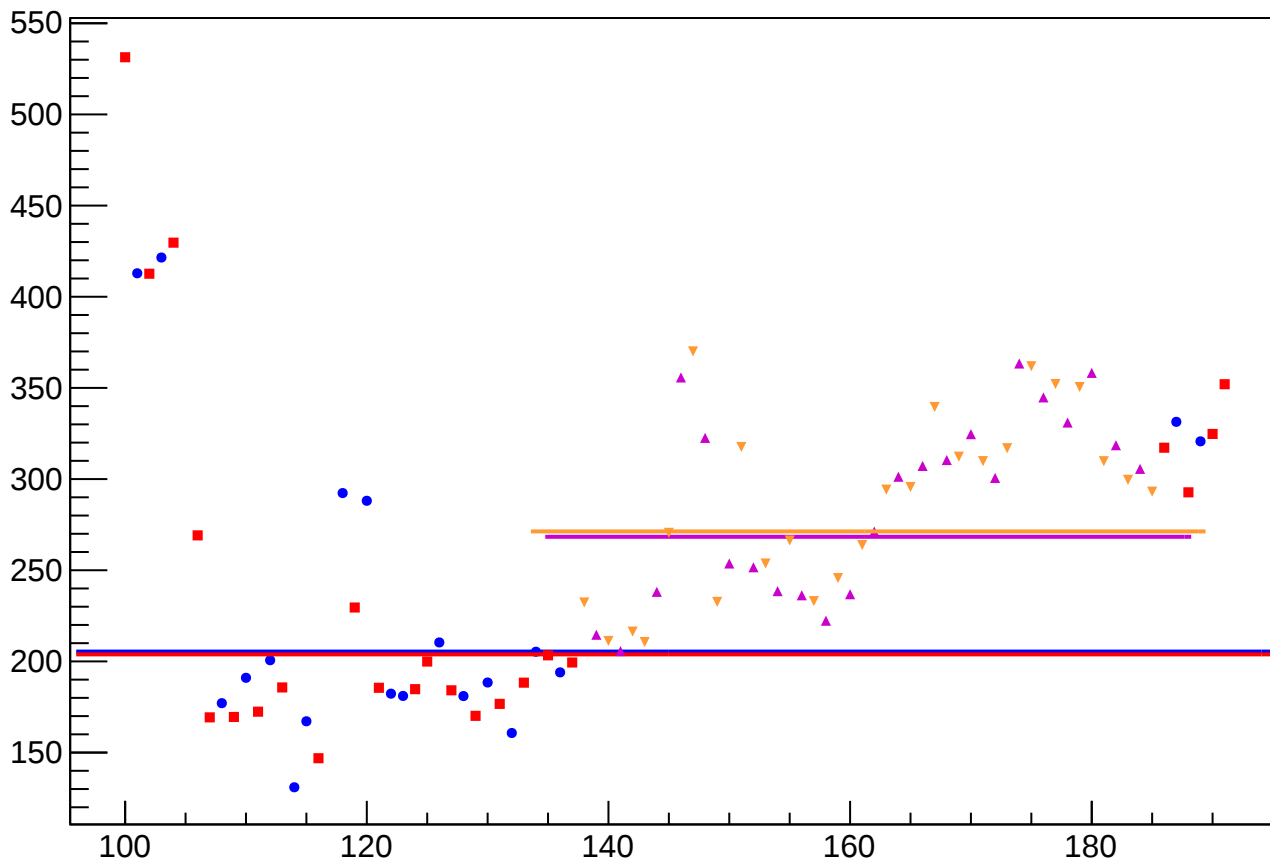
All: 167.710 $\pm$ 0.017 χ^2 /NDF: 5737588.5/89

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Left: 136524.219 $\pm$ 0.046 χ^2/NDF : 1640486942.5/4
 Right: 147510.192 $\pm$ 0.054 χ^2/NDF : 4018793082.0/4
 In: 141066.077 $\pm$ 0.051 χ^2/NDF : 14309820684.2/4
 Out: 141266.572 $\pm$ 0.048 χ^2/NDF : 15300621317.3
 All: 141172.016 $\pm$ 0.035 χ^2/NDF : 296185892

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 205.388 $\pm$ 0.057 χ^2 /NDF: 1109628.3/18

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

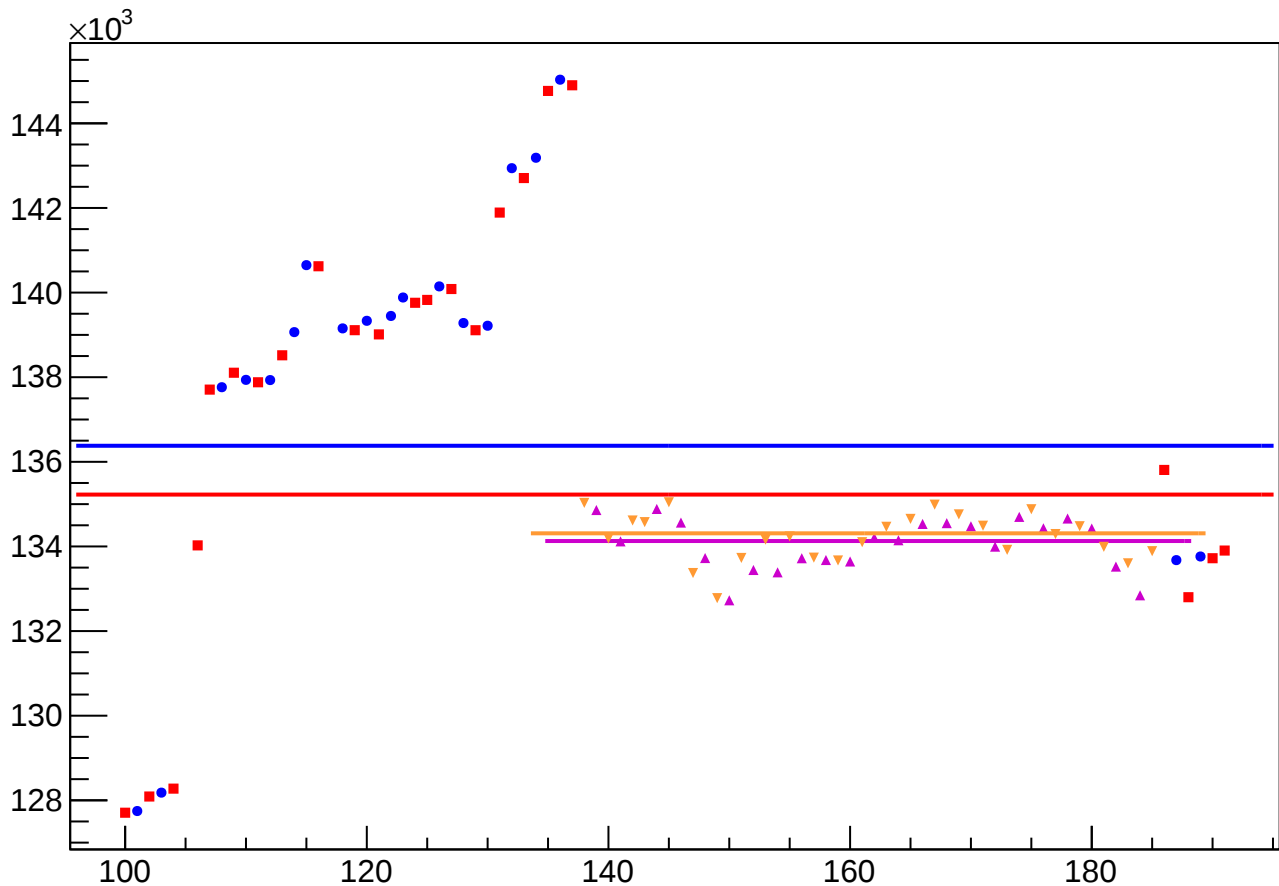
Right: 204.538 $\pm$ 0.038 χ^2 /NDF: 2443766.2/41

In: 243.105 $\pm$ 0.036 χ^2 /NDF:2917249.4/41

Out: 241.428 $\pm$ 0.034 χ^2 /NDF:3362843.3/47

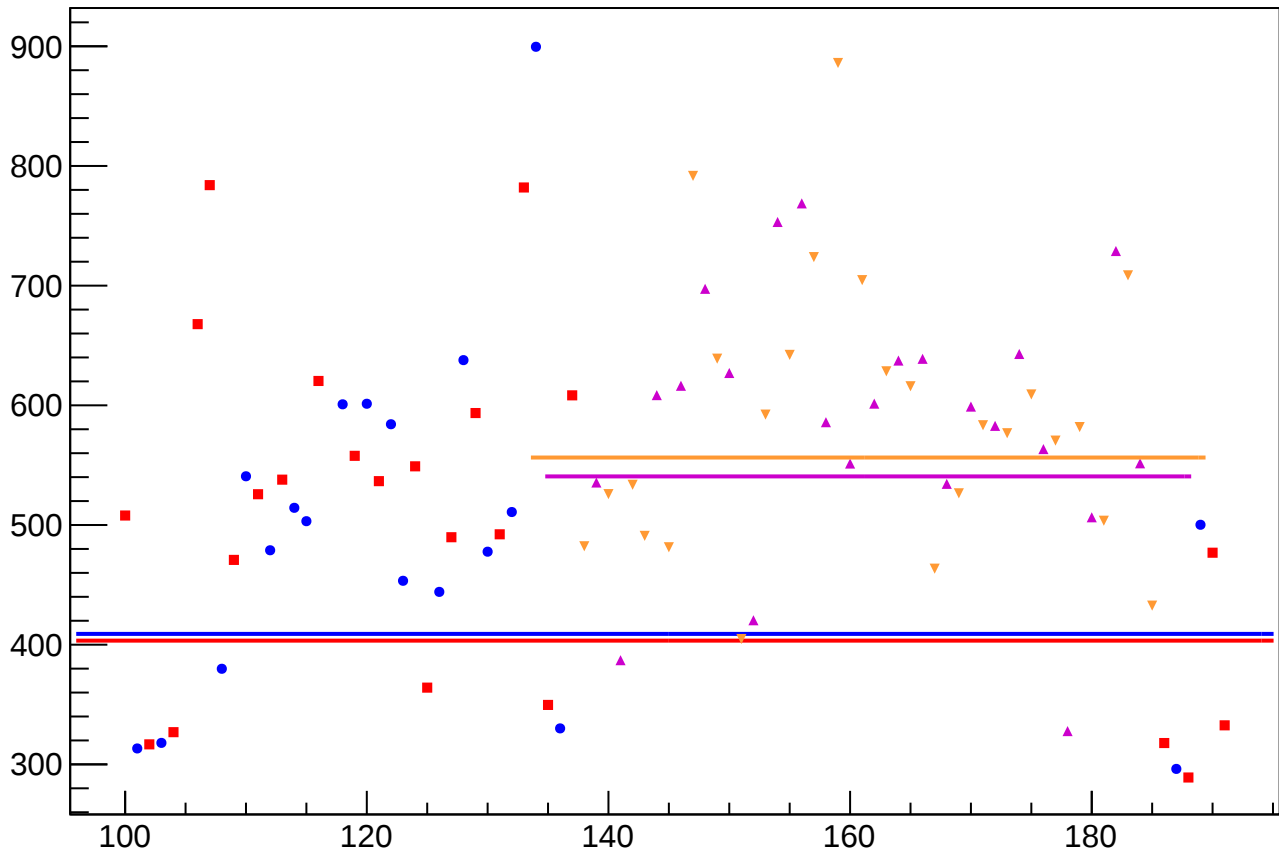
All: 242.219 $\pm$ 0.025 χ^2 /NDF: 6281232.8/89

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136379.623 $\pm$ 0.165	χ^2 /NDF: 1514148225.9/18	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: 135750.522 $\pm$ 0.111	χ^2 /NDF: 2692425255.0/18
Right Out: 135225.876 $\pm$ 0.151	χ^2 /NDF: 1151693059.2/22	In: 135084.492 $\pm$ 0.108	χ^2 /NDF: 1636480320.8/41
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 134729.098 $\pm$ 0.102	χ^2 /NDF: 1187188335.5/41
		All: 134897.259 $\pm$ 0.074	χ^2 /NDF: 282940638.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 409.026 $\pm$ 0.117 χ^2 /NDF: 886222.9/18

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

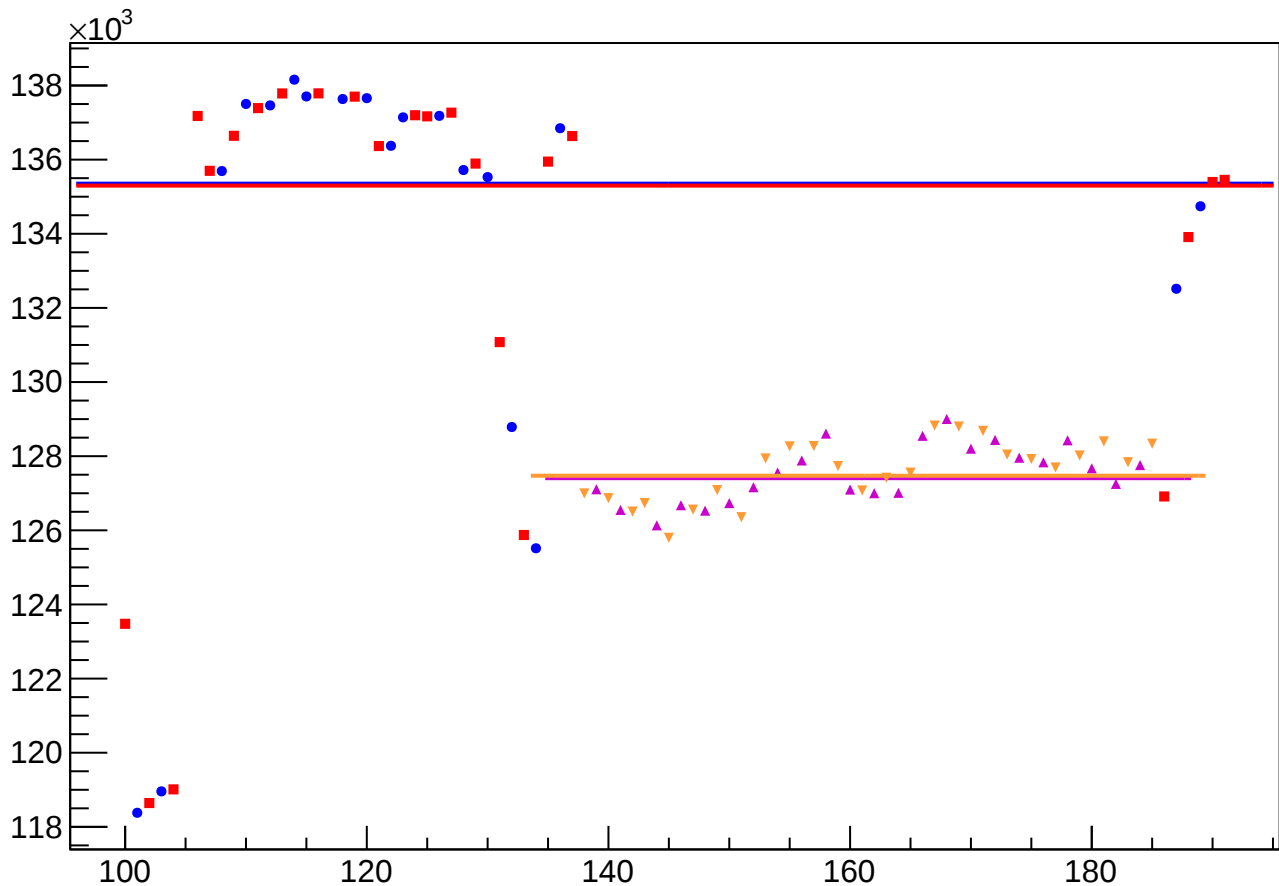
Right: 405.957 $\pm$ 0.079 χ^2 /NDF: 2182588.8/41

In: 484.717 $\pm$ 0.076 χ^2 /NDF:3024792.8/41

Out: 486.400 $\pm$ 0.072 χ^2 /NDF:3412511.3/47

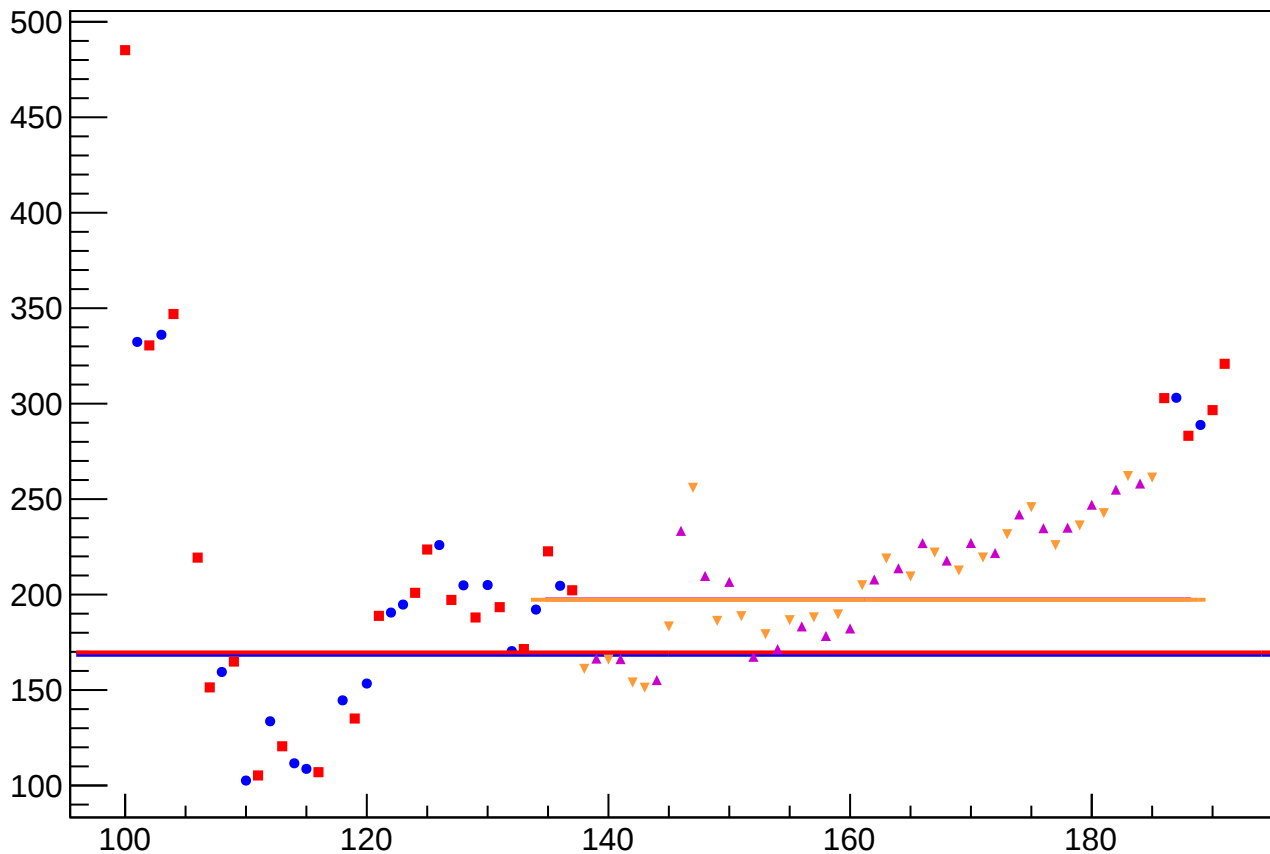
All: 485.603 $\pm$ 0.052 χ^2 /NDF: 6437561.3/89

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135351.987 $\pm$ 0.067	χ^2 /NDF: 4593381631.5/18	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: 135323.308 $\pm$ 0.045	χ^2 /NDF: 9644896507.4/47
Right Out: 135299.108 $\pm$ 0.062	χ^2 /NDF: 5051179214.7/22	In: 130117.073 $\pm$ 0.039	χ^2 /NDF: 14069128156.4/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130332.671 $\pm$ 0.037	χ^2 /NDF: 15550893700.5/47
		All: 130230.309 $\pm$ 0.027	χ^2 /NDF: 296358630.0/47

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 168.472 $\pm$ 0.048 χ^2 /NDF: 1459115.1/18

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

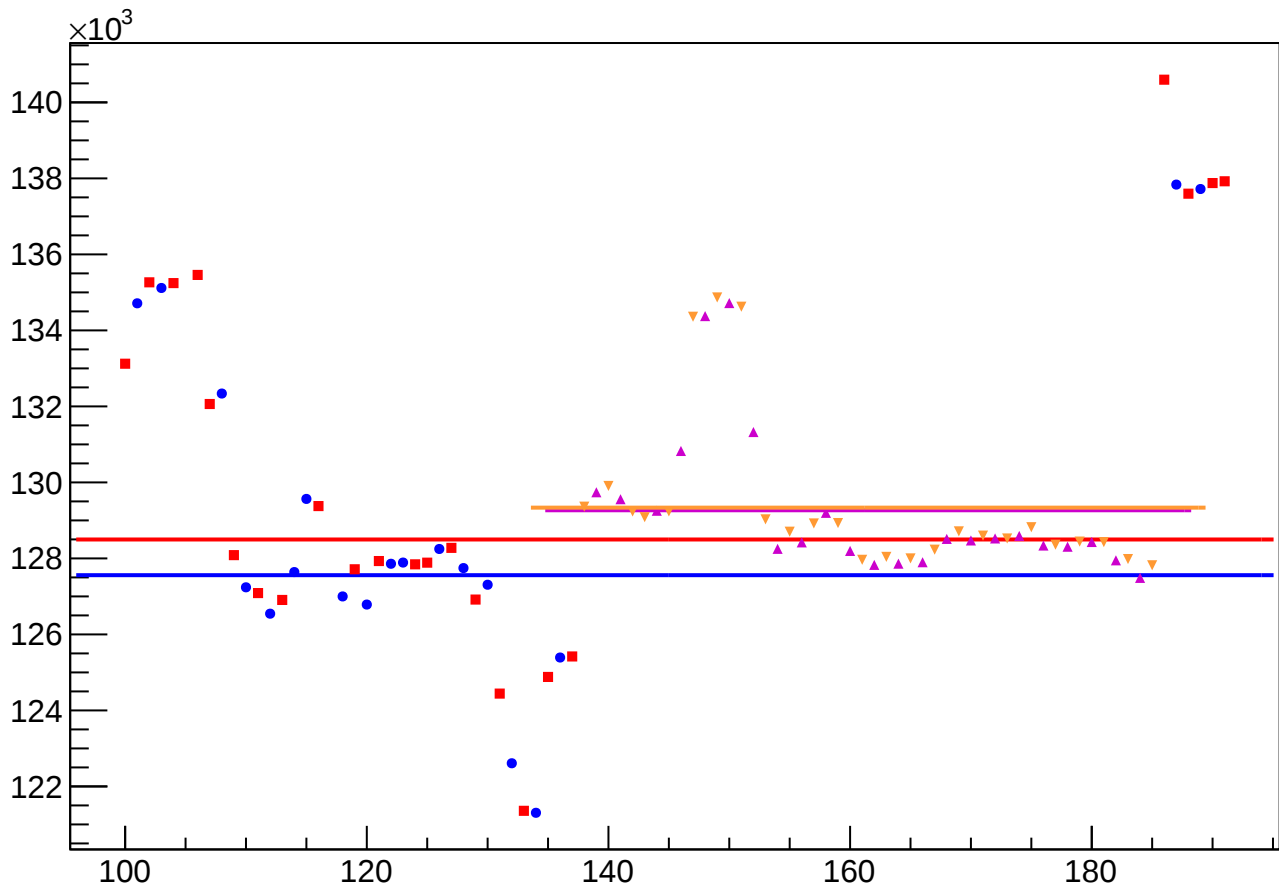
Right: 169.133 $\pm$ 0.032 χ^2 /NDF: 3551689.2/41

In: 187.579 $\pm$ 0.028 χ^2 /NDF: 2495972.3/41

Out: 187.203 $\pm$ 0.026 χ^2 /NDF: 3197821.3/47

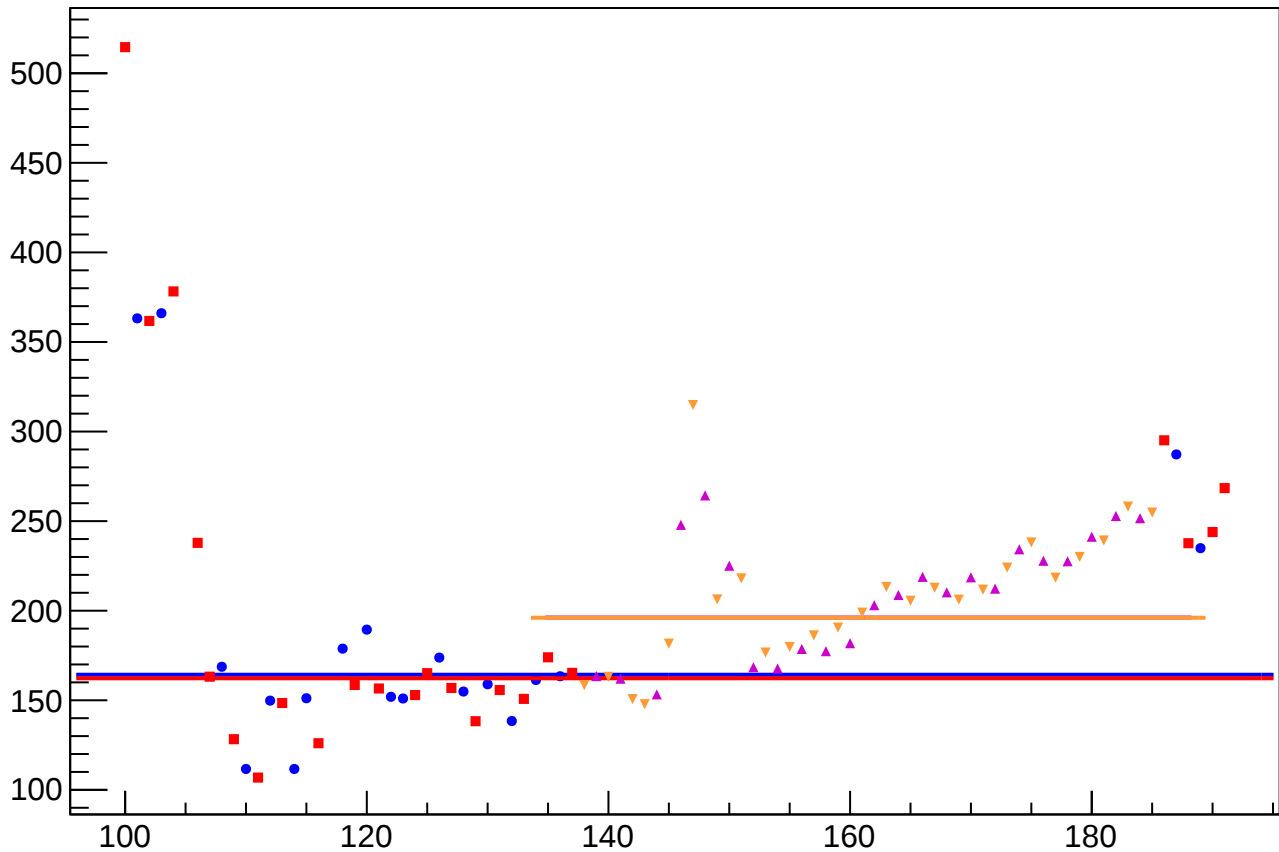
All: 187.382 $\pm$ 0.019 χ^2 /NDF: 5693889.7/89

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127558.755 $\pm$ 0.065	χ^2 /NDF: 2852224167.3/18	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/4
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 128077.873 $\pm$ 0.043	χ^2 /NDF: 8087602553.6/4
Right Out: 128497.961 $\pm$ 0.058	χ^2 /NDF: 5119813945.7/22	In: 128661.052 $\pm$ 0.039	χ^2 /NDF: 4512282618.4/4
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129009.075 $\pm$ 0.036	χ^2 /NDF: 6696199436.3/4
		All: 128845.194 $\pm$ 0.027	χ^2 /NDF: 112513083

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 164.258 $\pm$ 0.046 χ^2 /NDF: 1088589.0/18

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

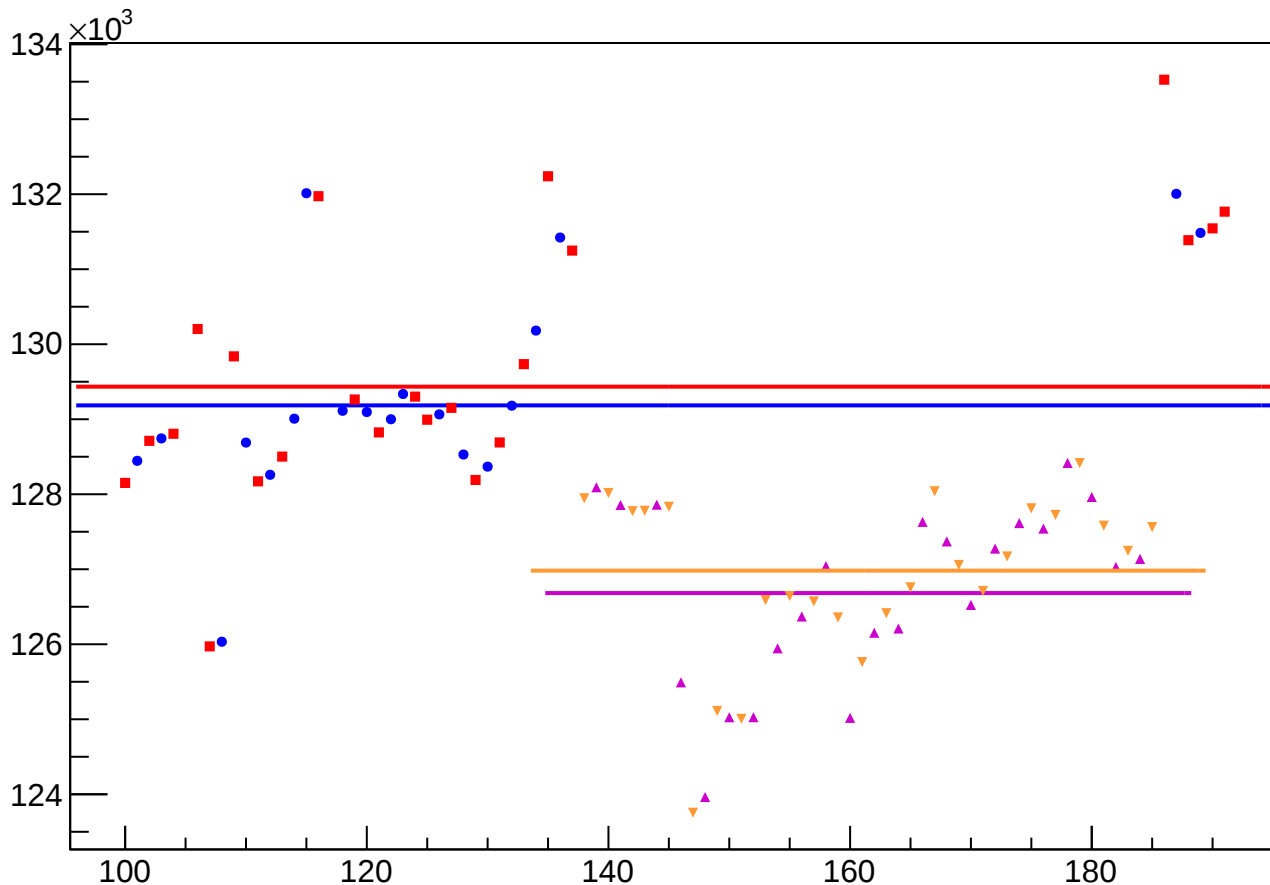
Right: 163.160 $\pm$ 0.031 χ^2 /NDF: 2711422.0/41

In: 184.862 $\pm$ 0.027 χ^2 /NDF: 2298494.8/41

Out: 182.891 $\pm$ 0.026 χ^2 /NDF: 3005830.0/47

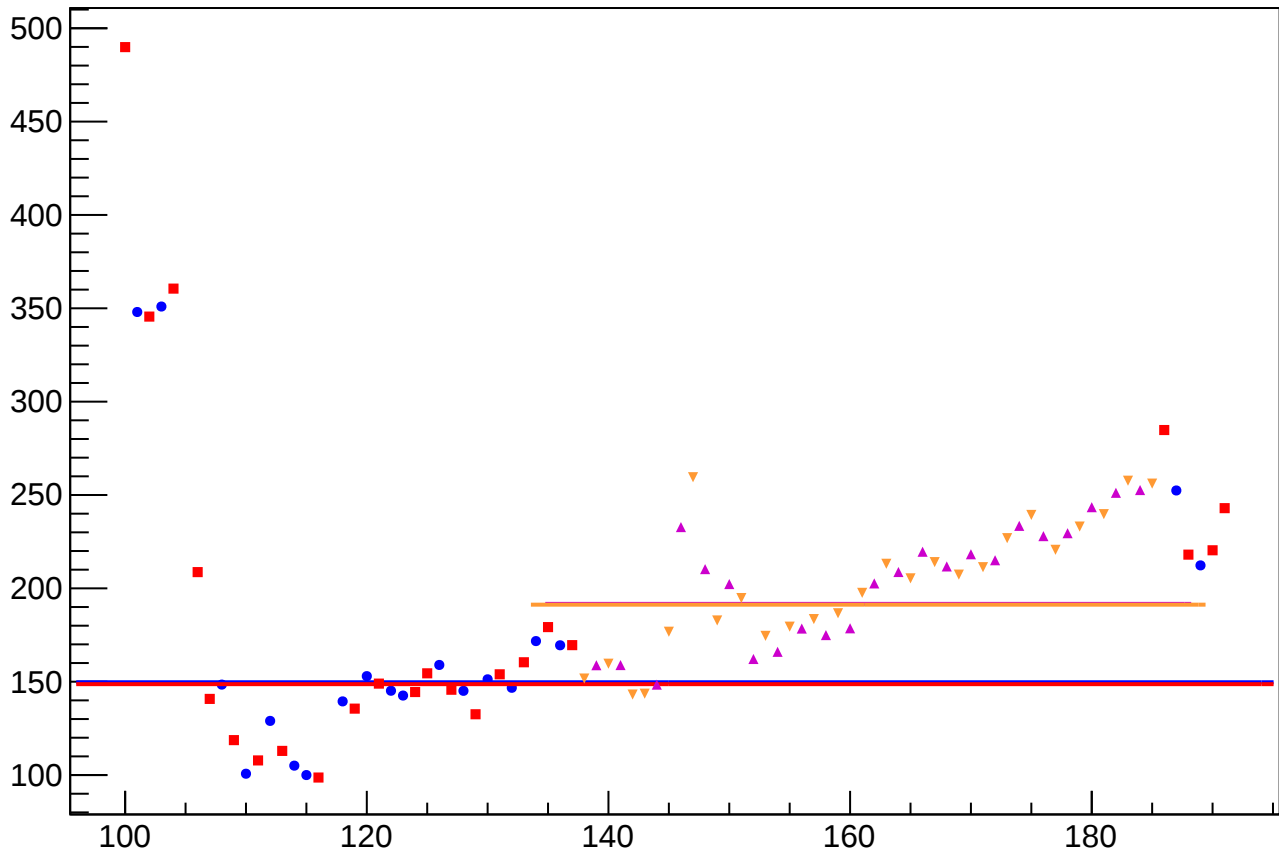
All: 183.819 $\pm$ 0.019 χ^2 /NDF: 5307071.1/89

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129184.747+/-0.059	χ^2/NDF : 554854803.8/18	Left: 126836.943+/-0.033	χ^2/NDF : 1211882944.2/4
Left Out: 126981.724+/-0.046	χ^2/NDF : 530573115.8/24	Right: 129321.940+/-0.040	χ^2/NDF : 1413498290.5/4
Right Out: 129434.341+/-0.053	χ^2/NDF : 848772112.5/22	In: 127655.928+/-0.037	χ^2/NDF : 2318009112.3/4
Left In: 126682.659+/-0.047	χ^2/NDF : 660415880.0/22	Out: 128015.960+/-0.035	χ^2/NDF : 2603383962.1/4
		All: 127846.604+/-0.025	χ^2/NDF : 497227025

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 149.700 $\pm$ 0.042 χ^2 /NDF: 1205897.7/18

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

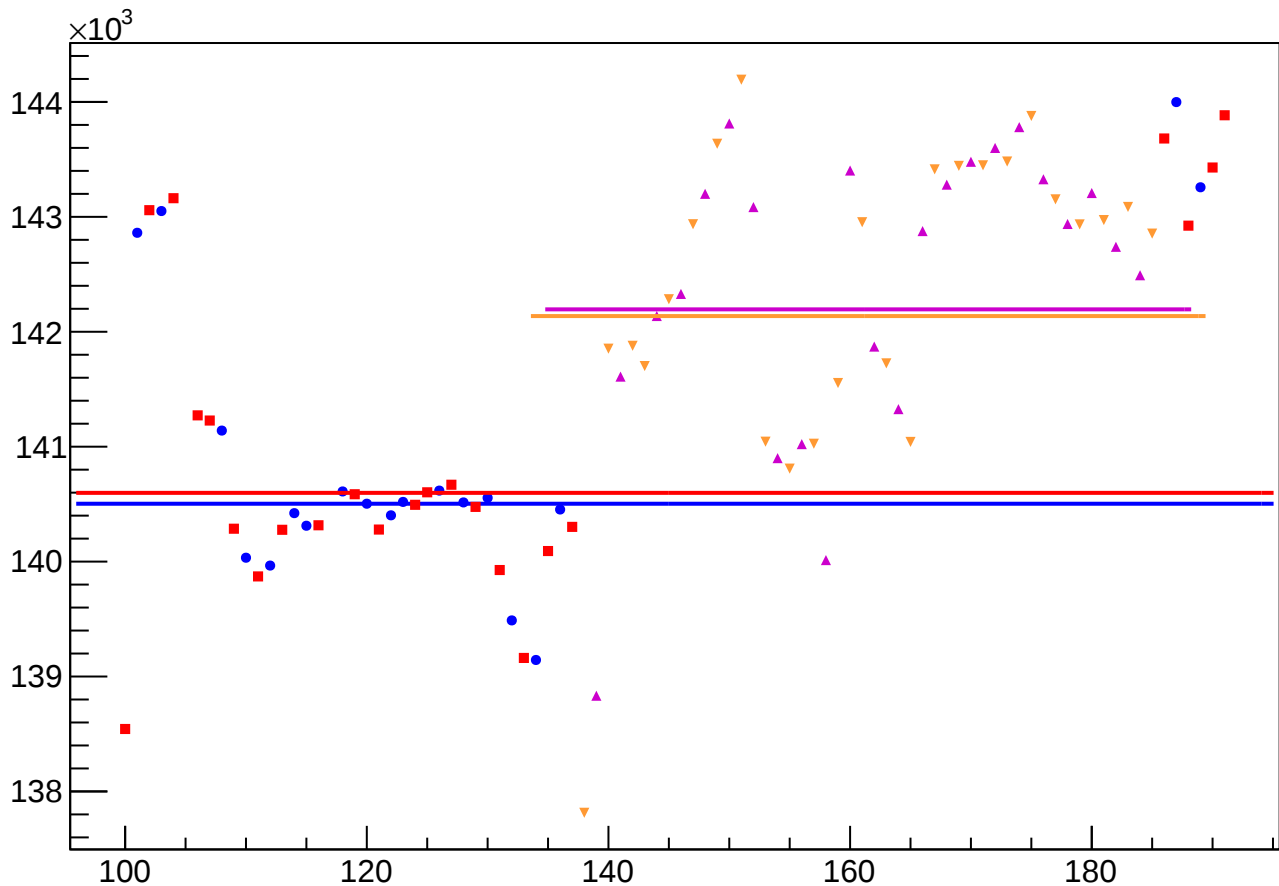
Right: 149.142 $\pm$ 0.028 χ^2 /NDF: 2956409.5/41

In: 175.352 $\pm$ 0.026 χ^2 /NDF: 2691190.5/41

Out: 173.309 $\pm$ 0.024 χ^2 /NDF: 3480538.5/47

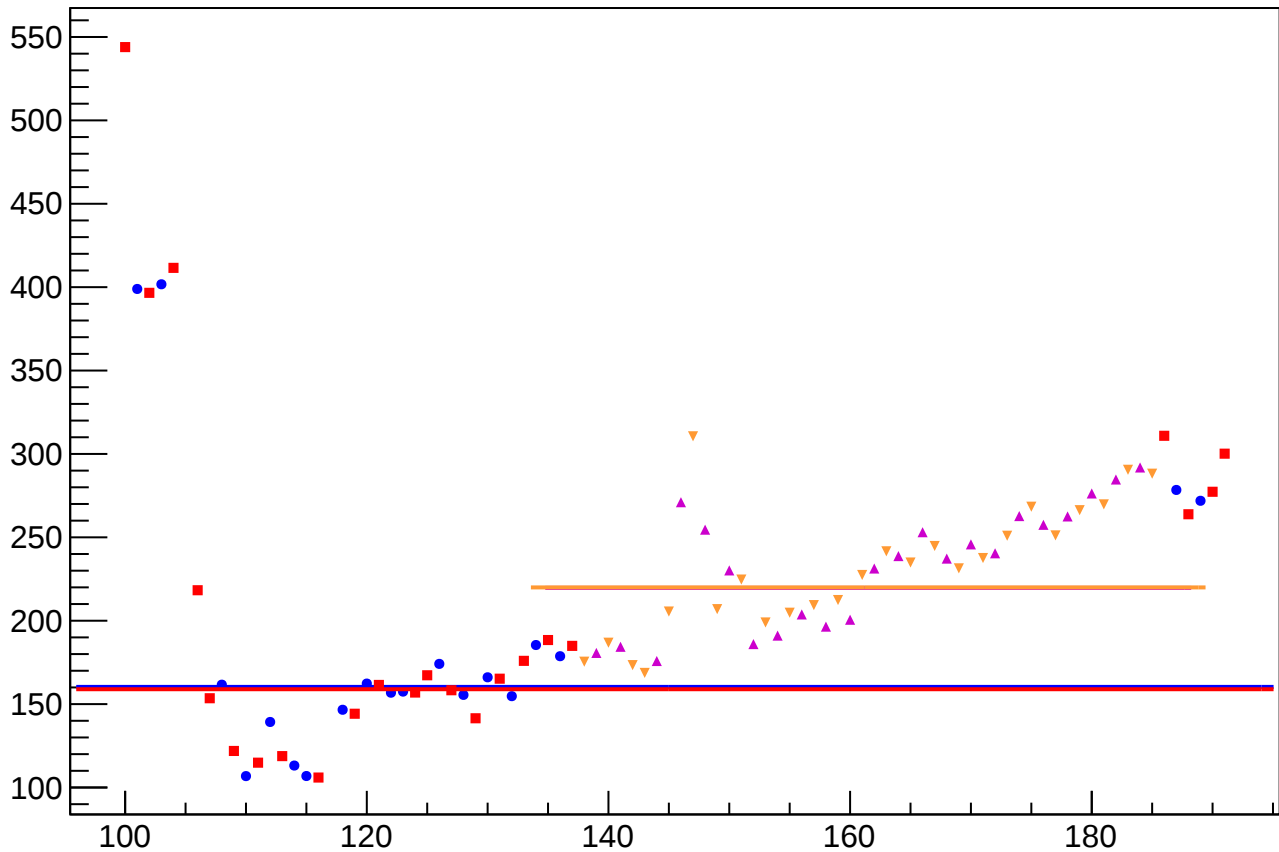
All: 174.270 $\pm$ 0.018 χ^2 /NDF: 6175007.5/89

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140503.554 $\pm$ 0.063 χ^2 /NDF: 163065303.0/18
 Left Out: 142136.579 $\pm$ 0.052 χ^2 /NDF: 815573343.0/24
 Right Out: 140598.205 $\pm$ 0.057 χ^2 /NDF: 284435177.6/22
 Left In: 142195.020 $\pm$ 0.054 χ^2 /NDF: 644030906.9/22
 Left: 142164.953 $\pm$ 0.038 χ^2 /NDF: 1460209902.9/4
 Right: 140555.463 $\pm$ 0.043 χ^2 /NDF: 448724125.4/4
 In: 141485.525 $\pm$ 0.041 χ^2 /NDF: 1220753701.3/41
 Out: 141439.701 $\pm$ 0.039 χ^2 /NDF: 1491564972.6/4
 All: 141461.269 $\pm$ 0.028 χ^2 /NDF: 271297860

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 160.323+/-0.045 χ^2/NDF : 1376850.4/18

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 158.924+/-0.041 χ^2/NDF : 2052643.6/22

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

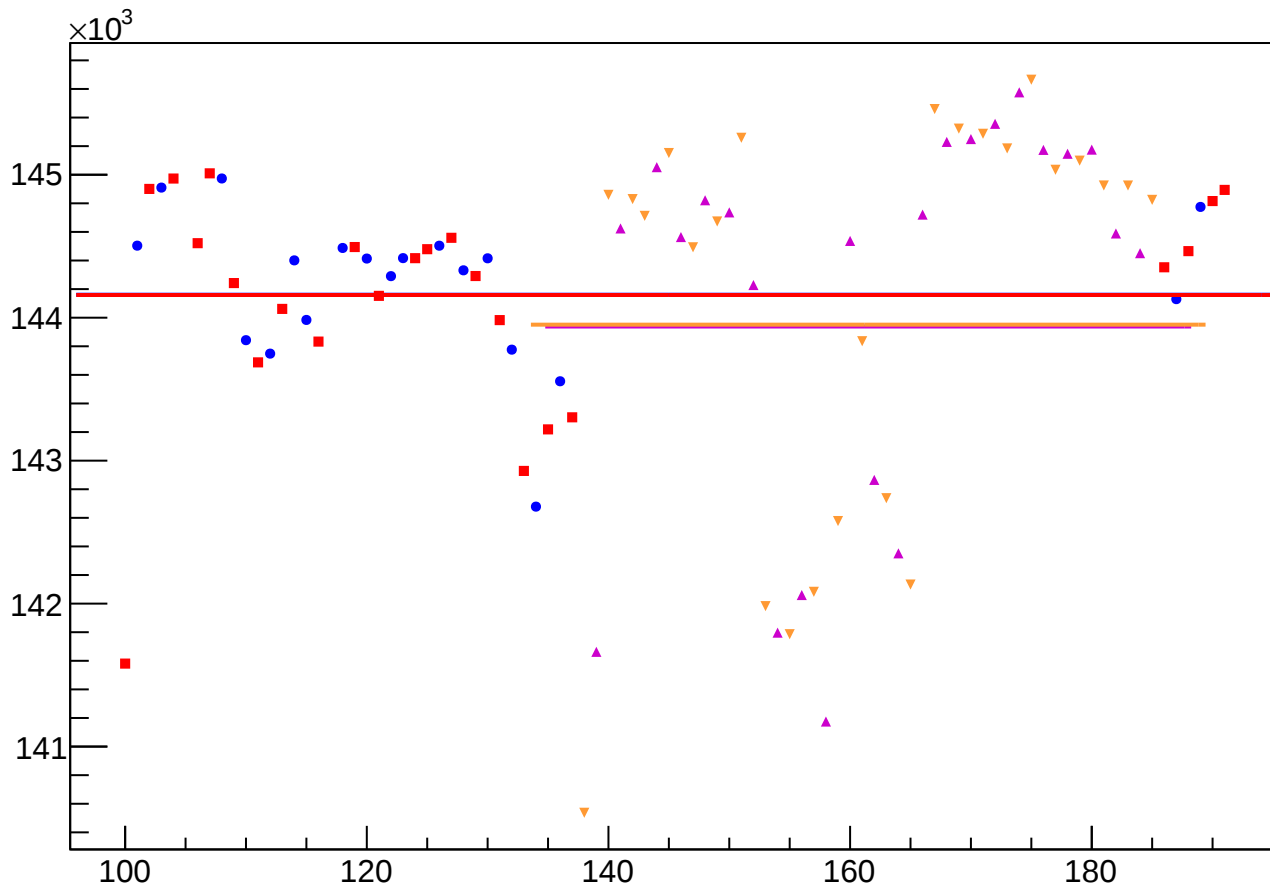
Right: 159.556+/-0.030 χ^2/NDF : 3430028.7/41

In: 194.785+/-0.029 χ^2/NDF : 3208544.2/41

Out: 192.316+/-0.027 χ^2/NDF : 4152366.8/47

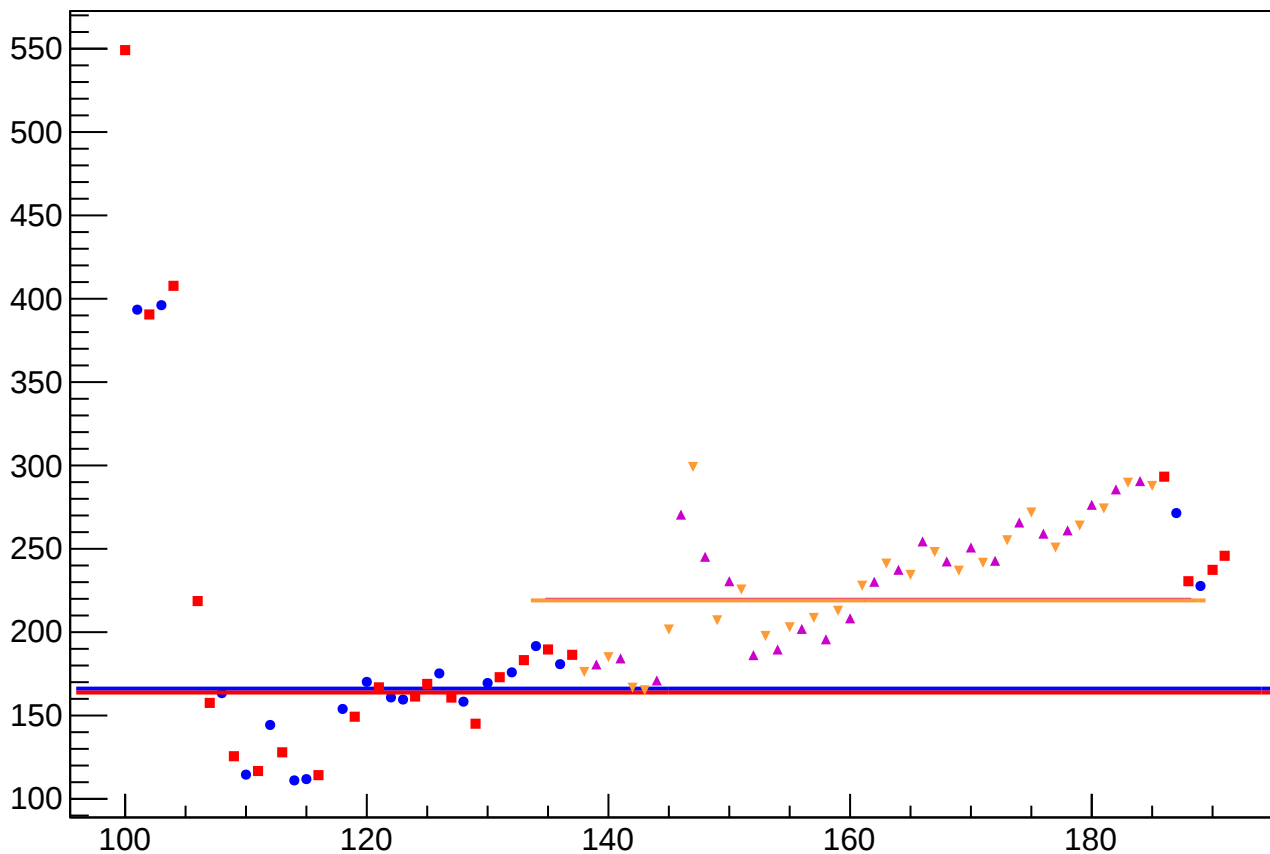
All: 193.478+/-0.020 χ^2/NDF : 7364743.1/89

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144160.617 $\pm$ 0.065	χ^2 /NDF: 50681887.6/18	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: 144159.614 $\pm$ 0.044	χ^2 /NDF: 123161015.4/4
Right Out: 144158.808 $\pm$ 0.059	χ^2 /NDF: 72478701.9/22	In: 144028.352 $\pm$ 0.042	χ^2 /NDF: 777404013.6/41
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: 144036.218 $\pm$ 0.028	χ^2 /NDF: 172164192.9/100

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 166.136 $\pm$ 0.046 χ^2 /NDF: 1189868.5/18

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

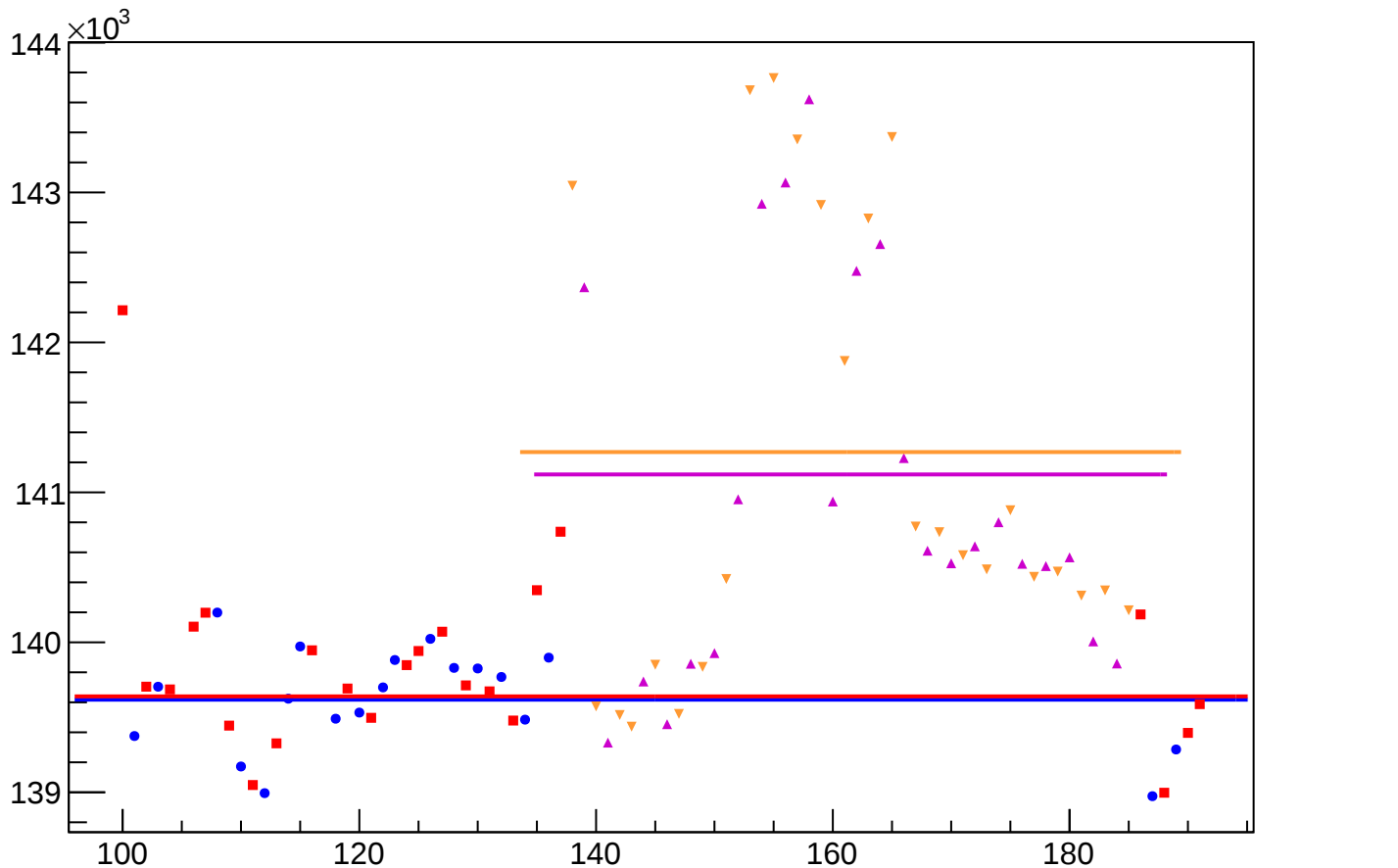
Right: 164.835 $\pm$ 0.031 χ^2 /NDF: 2868158.4/41

In: 197.838 $\pm$ 0.029 χ^2 /NDF: 2833641.2/41

Out: 194.593 $\pm$ 0.028 χ^2 /NDF: 3605701.1/47

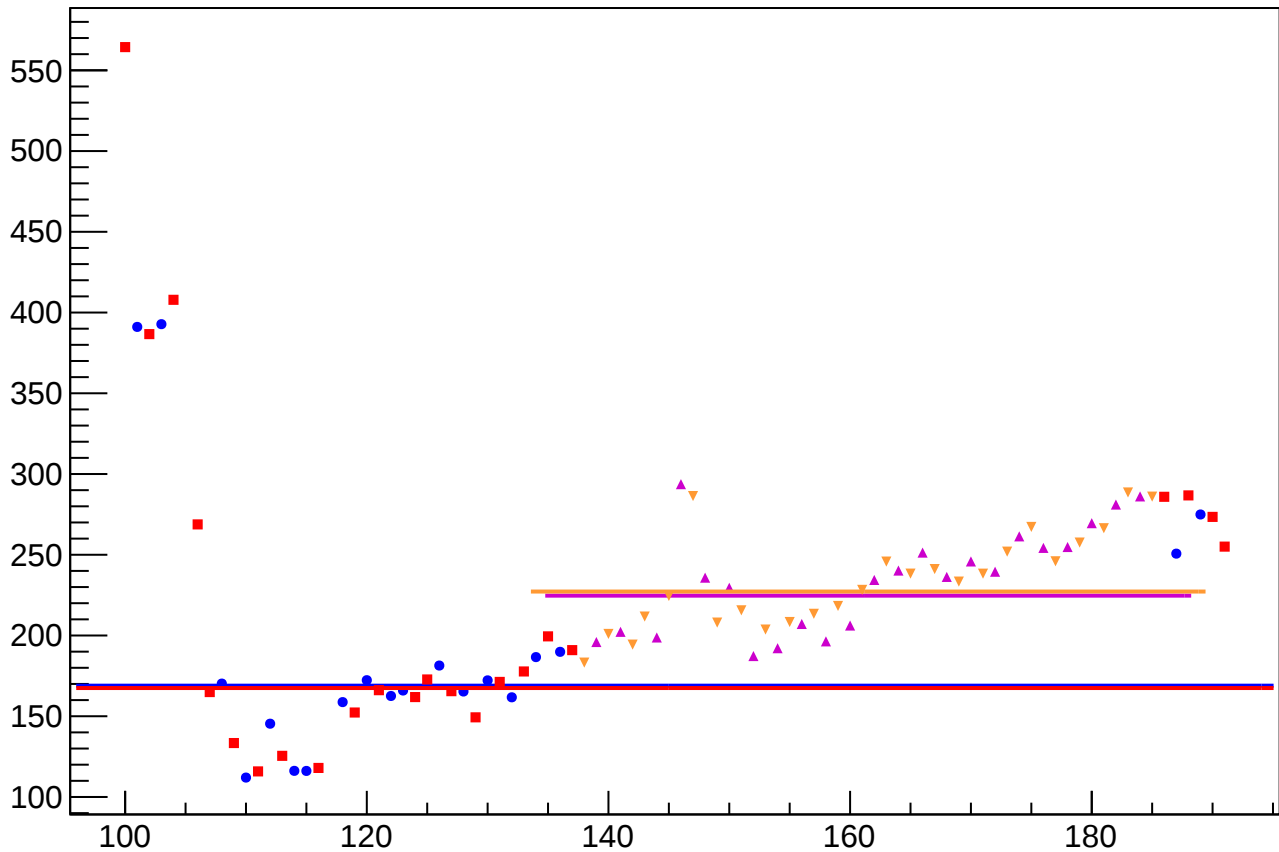
All: 196.111 $\pm$ 0.020 χ^2 /NDF: 6445845.0/89

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139617.598 ± 0.067	$\chi^2/\text{NDF}: 26540095.4/18$	Left: 141195.809 ± 0.038	$\chi^2/\text{NDF}: 1365080862.2/4$
Left Out: 141268.791 ± 0.054	$\chi^2/\text{NDF}: 795989244.2/24$	Right: 139629.699 ± 0.045	$\chi^2/\text{NDF}: 71049899.4/41$
Right Out: 139639.624 ± 0.060	$\chi^2/\text{NDF}: 44449711.8/22$	In: 140511.633 ± 0.042	$\chi^2/\text{NDF}: 894580807.1/41$
Left In: 141119.484 ± 0.055	$\chi^2/\text{NDF}: 565312728.1/22$	Out: 140548.419 ± 0.040	$\chi^2/\text{NDF}: 1247434787.7/4$
		All: 140531.034 ± 0.029	$\chi^2/\text{NDF}: 214241318$

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 168.929+/-0.047 χ^2/NDF : 1245575.0/18

Left Out: 227.224+/-0.038 χ^2/NDF : 484955.3/24

Right Out: 167.465+/-0.043 χ^2/NDF : 1886465.0/22

Left In: 224.686+/-0.039 χ^2/NDF : 578366.0/22

Left: 225.984+/-0.027 χ^2/NDF : 1065504.5/47

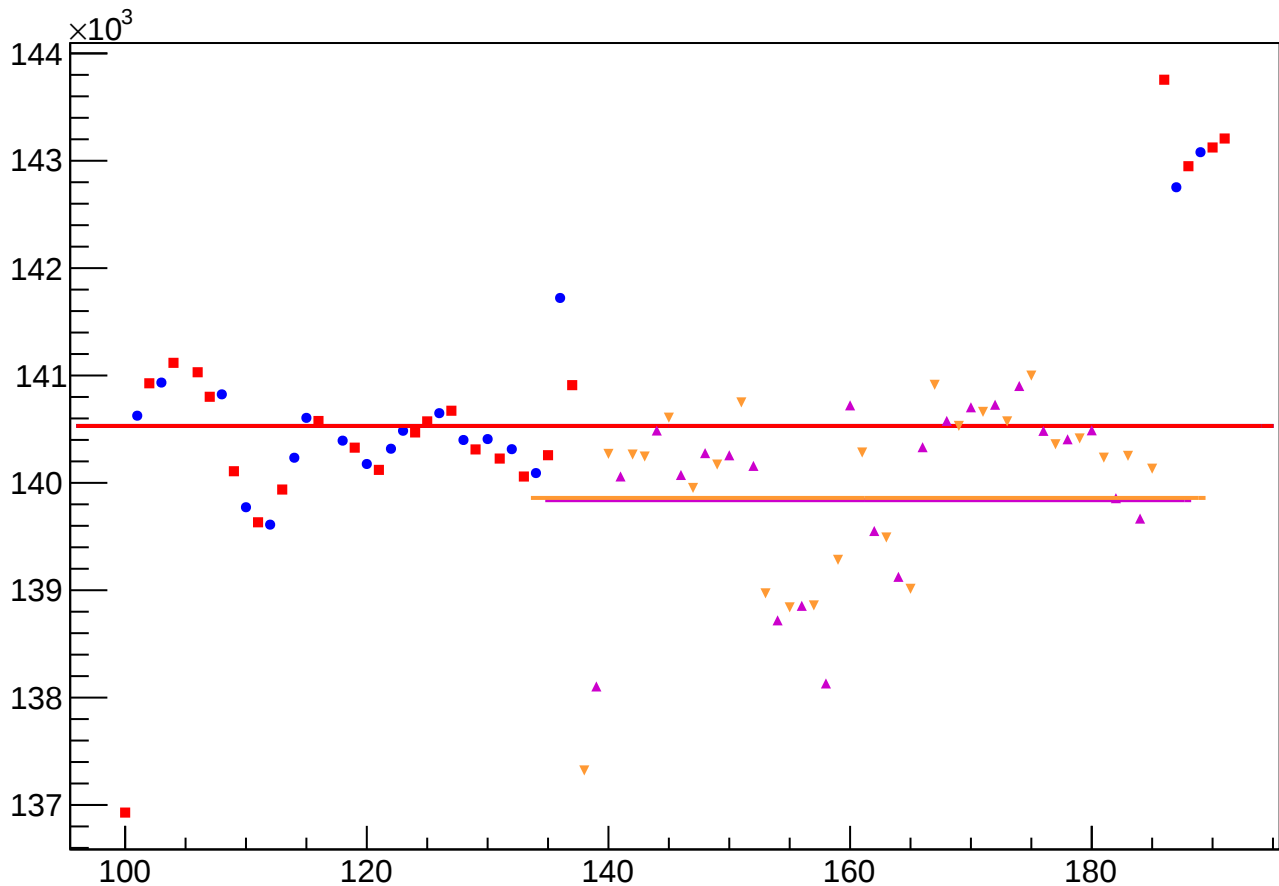
Right: 168.125+/-0.032 χ^2/NDF : 3132571.1/41

In: 202.120+/-0.030 χ^2/NDF : 2658403.7/41

Out: 200.800+/-0.028 χ^2/NDF : 3466617.7/47

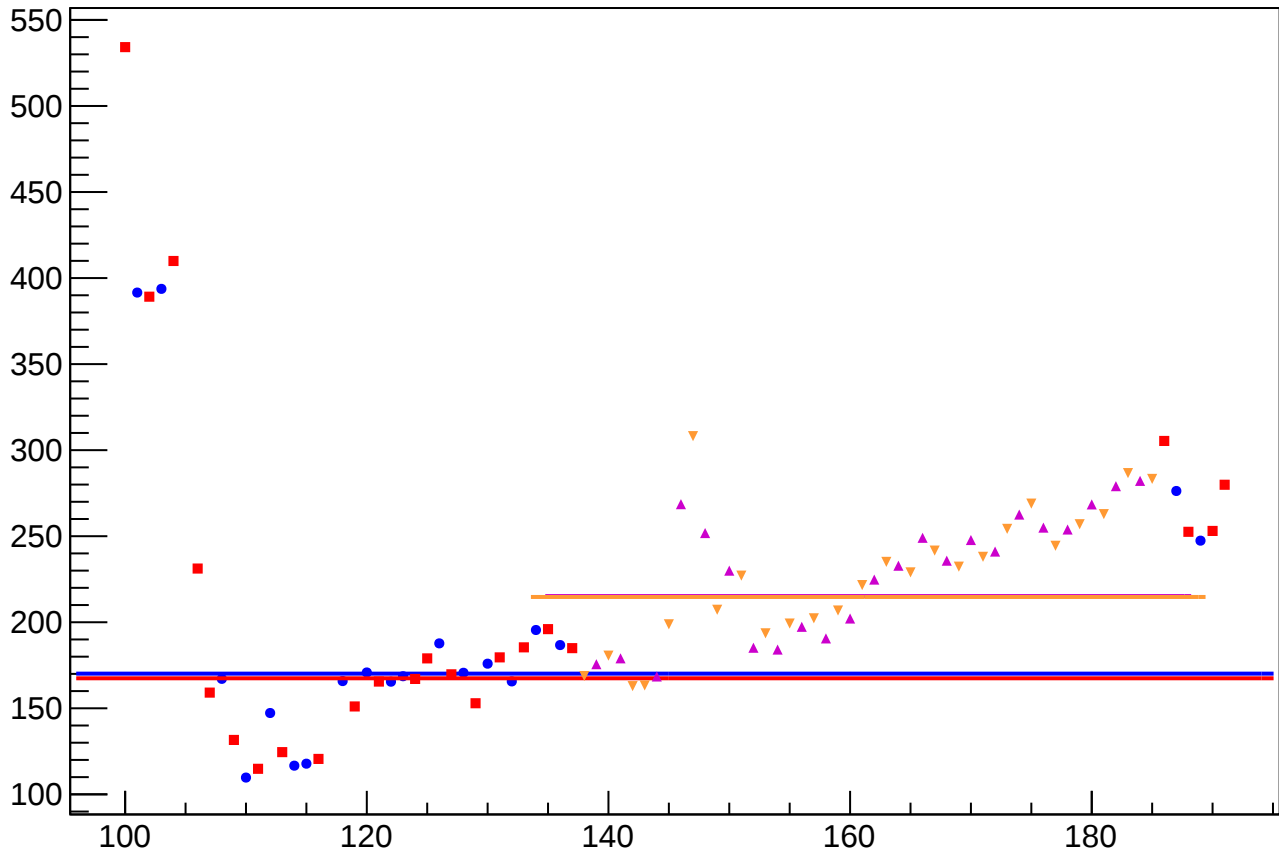
All: 201.424+/-0.021 χ^2/NDF : 6126044.9/89

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140530.101 $\pm$ 0.067 χ^2 /NDF: 133228811.9/18
 Left Out: 139859.696 $\pm$ 0.051 χ^2 /NDF: 330118281.5/24
 Right Out: 140530.136 $\pm$ 0.060 χ^2 /NDF: 237706999.5/22
 Left In: 139838.724 $\pm$ 0.053 χ^2 /NDF: 279573689.3/22
 Left: 139849.553 $\pm$ 0.037 χ^2 /NDF: 609773442.9/47
 Right: 140530.120 $\pm$ 0.045 χ^2 /NDF: 370935811.6/47
 In: 140103.657 $\pm$ 0.041 χ^2 /NDF: 478508522.8/41
 Out: 140140.973 $\pm$ 0.039 χ^2 /NDF: 640052899.3/47
 All: 140123.491 $\pm$ 0.028 χ^2 /NDF: 111899187.5/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 170.138 $\pm$ 0.047 χ^2 /NDF: 1224038.6/18

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

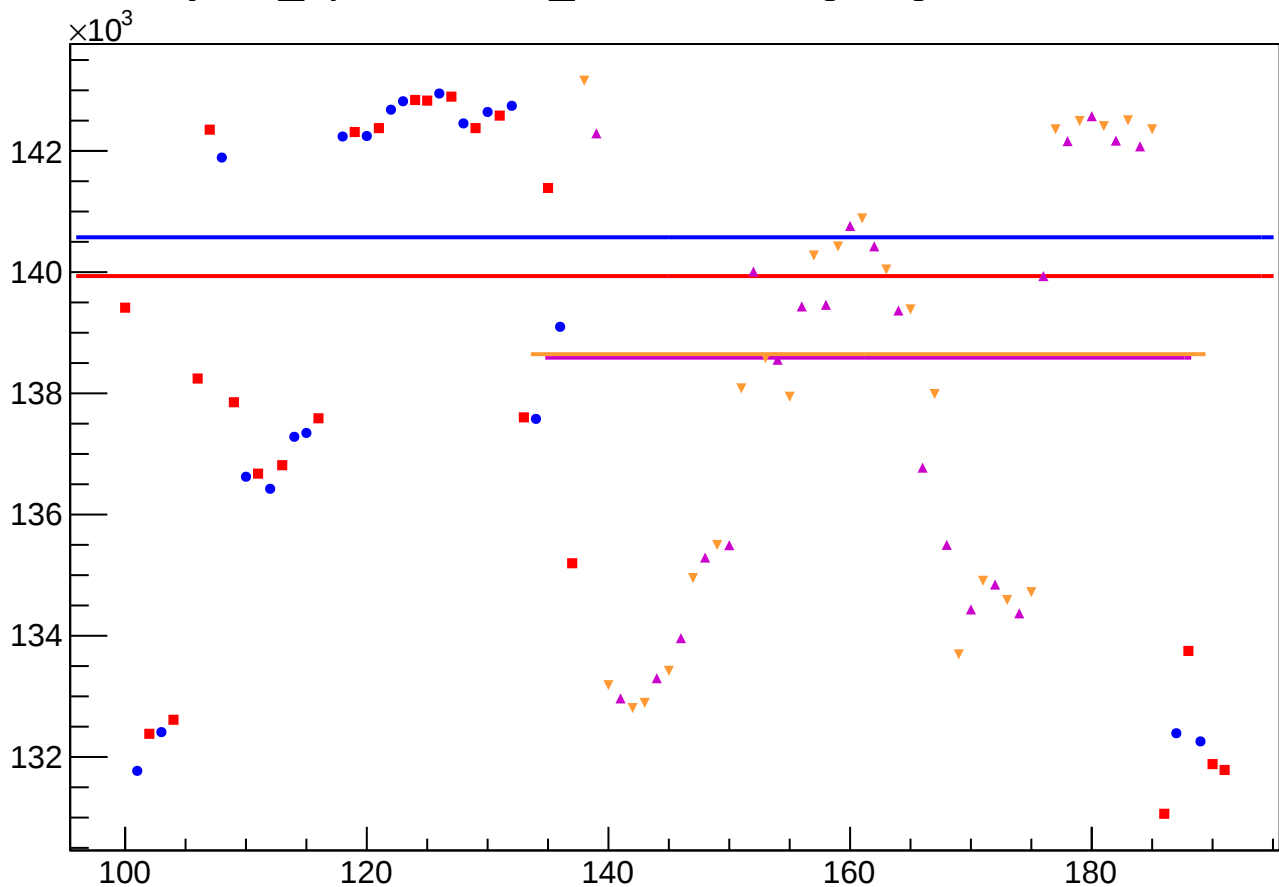
Right: 168.641 $\pm$ 0.032 χ^2 /NDF: 3014848.9/41

In: 197.946 $\pm$ 0.029 χ^2 /NDF: 2664768.3/41

Out: 194.866 $\pm$ 0.028 χ^2 /NDF: 3487822.5/47

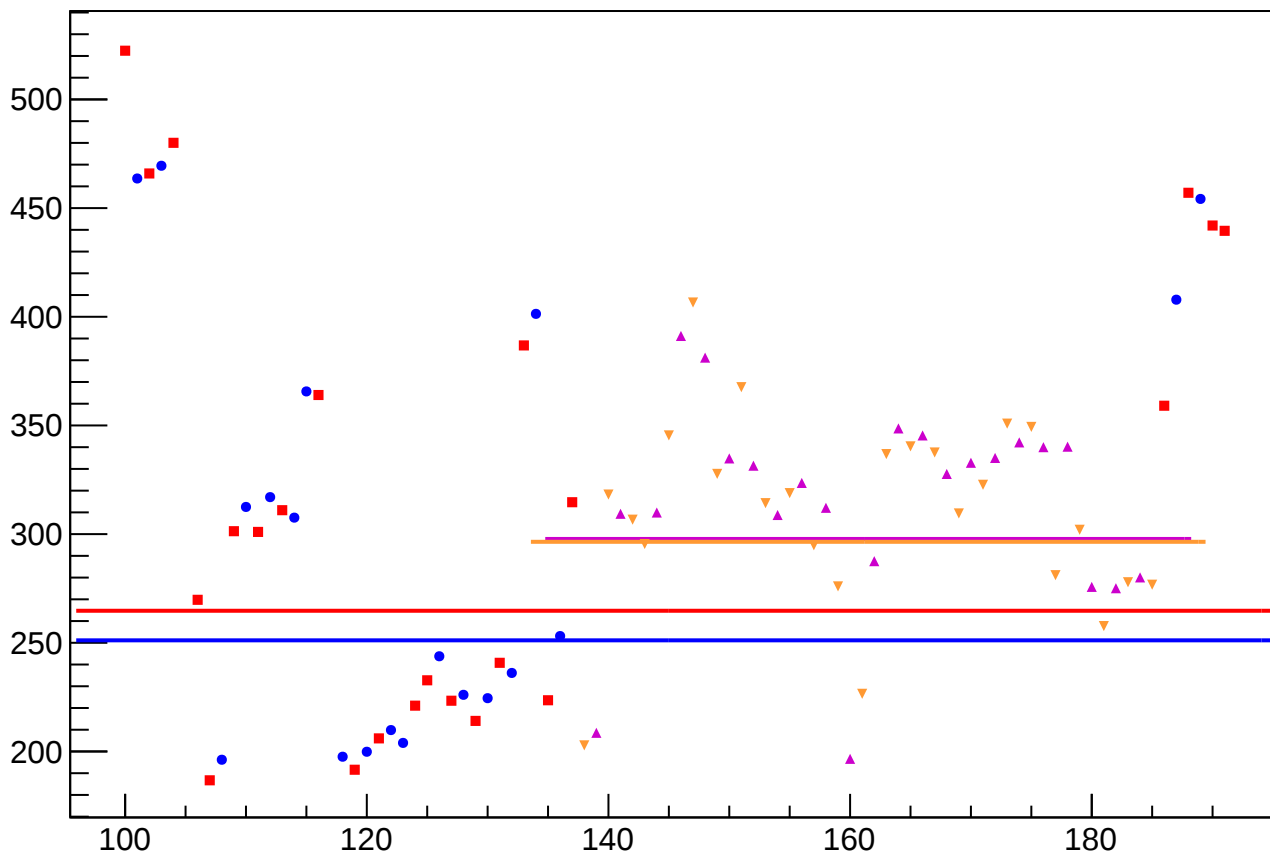
All: 196.309 $\pm$ 0.020 χ^2 /NDF: 6158453.7/89

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140575.203+/-0.099 χ^2/NDF : 1043822297.8/18
 Left Out: 138646.366+/-0.071 χ^2/NDF : 2548637600.4/24
 Right Out: 139934.940+/-0.095 χ^2/NDF : 1480947221.7/22
 Left In: 138588.711+/-0.074 χ^2/NDF : 1948065195.1/22
 Left: 138618.660+/-0.051 χ^2/NDF : 4497021019.3/4
 Right: 140241.574+/-0.068 χ^2/NDF : 2546728432.5/4
 In: 139300.014+/-0.059 χ^2/NDF : 3252292459.3/4
 Out: 139109.701+/-0.057 χ^2/NDF : 4148522865.0/4
 All: 139201.044+/-0.041 χ^2/NDF : 740622277.0/4

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 251.130+/-0.070 χ^2/NDF : 1106196.2/18

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 264.739+/-0.067 χ^2/NDF : 1608504.5/22

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

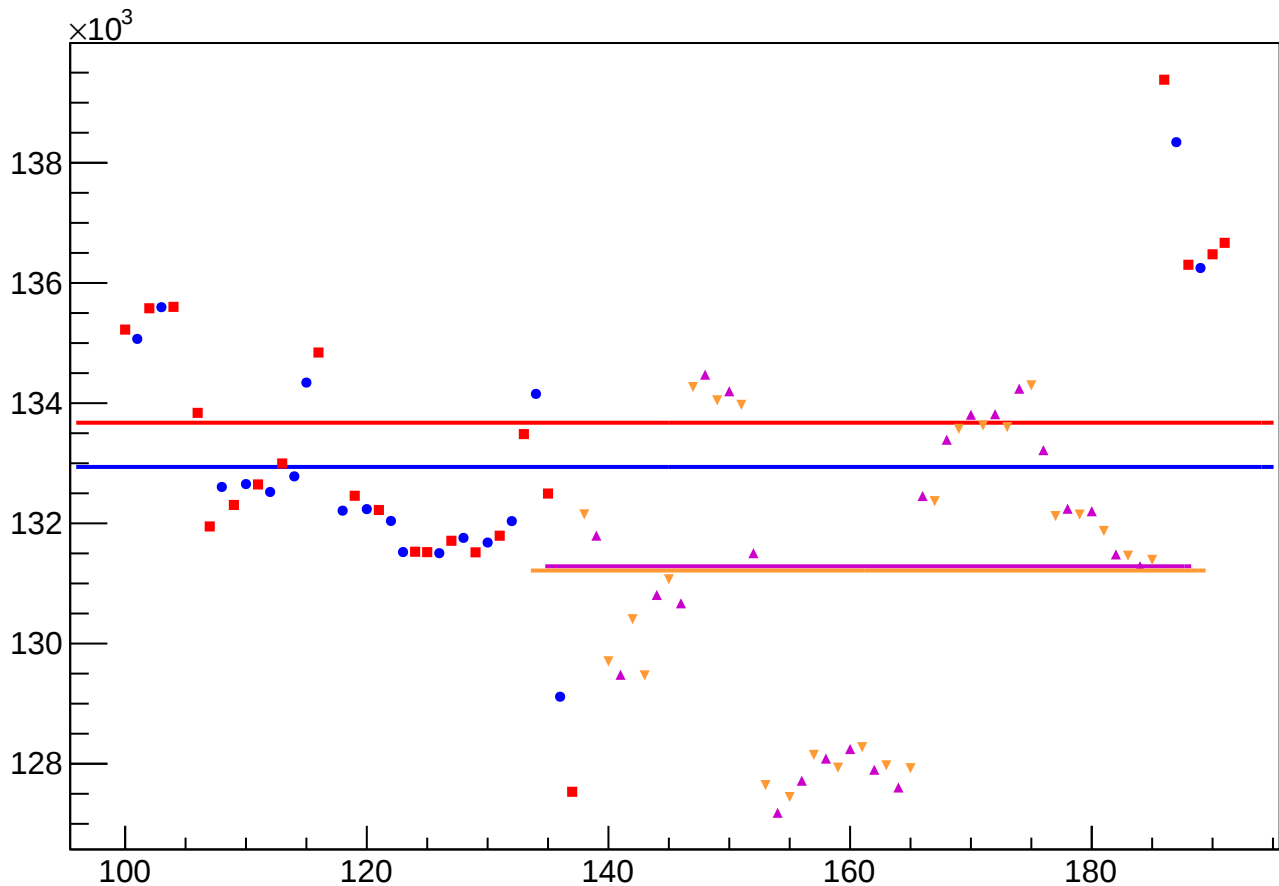
Right: 258.221+/-0.048 χ^2/NDF : 2734543.2/41

In: 281.072+/-0.042 χ^2/NDF : 2454836.7/41

Out: 285.057+/-0.040 χ^2/NDF : 2646279.3/47

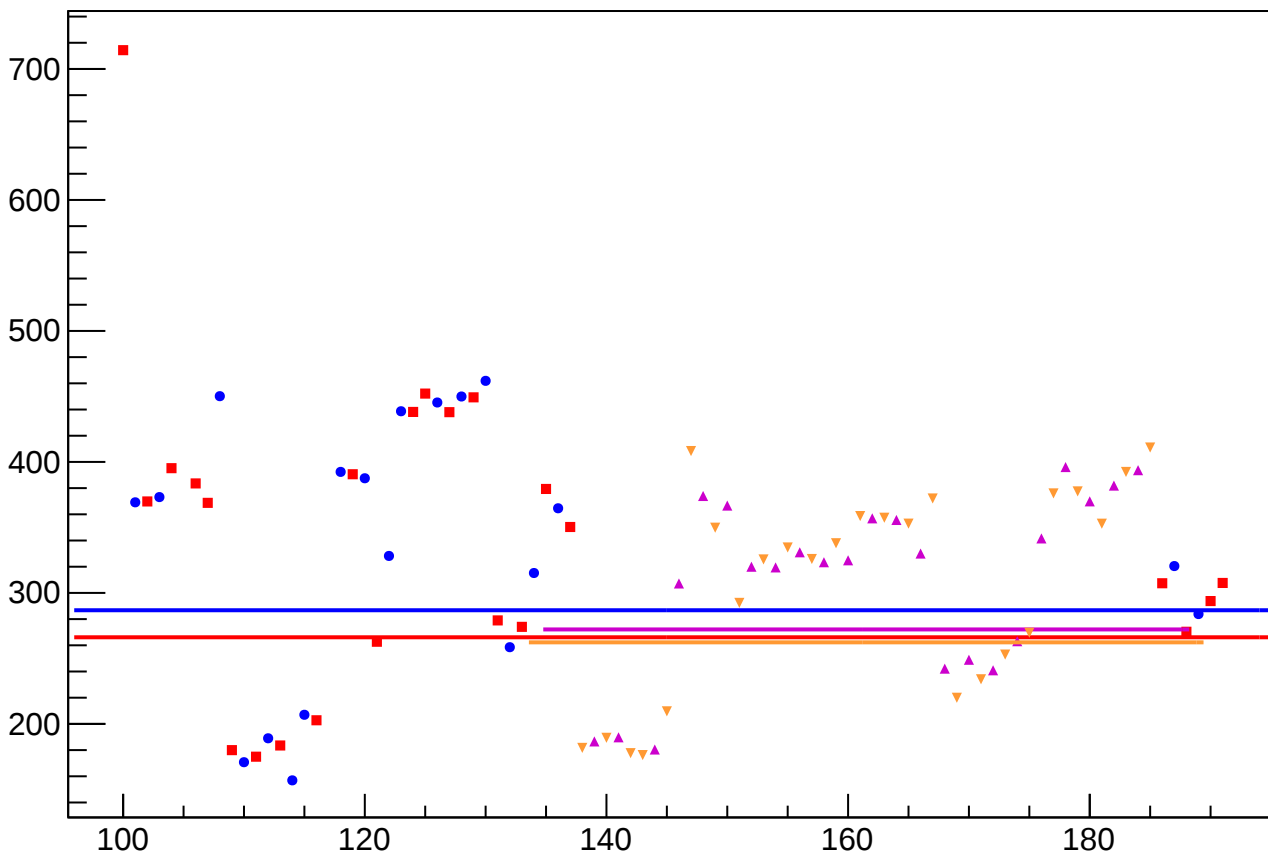
All: 283.144+/-0.029 χ^2/NDF : 5105856.8/89

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132938.952 $\pm$ 0.114	χ^2/NDF : 277550322.0/18	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: 133370.851 $\pm$ 0.073	χ^2/NDF : 779505260.5/4
Right Out: 133674.794 $\pm$ 0.095	χ^2/NDF : 477420696.7/22	In: 131723.708 $\pm$ 0.059	χ^2/NDF : 1488888454.3/4
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: 131865.350 $\pm$ 0.039	χ^2/NDF : 360699083.1/10

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.764 $\pm$ 0.080 χ^2 /NDF: 1517354.4/18

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

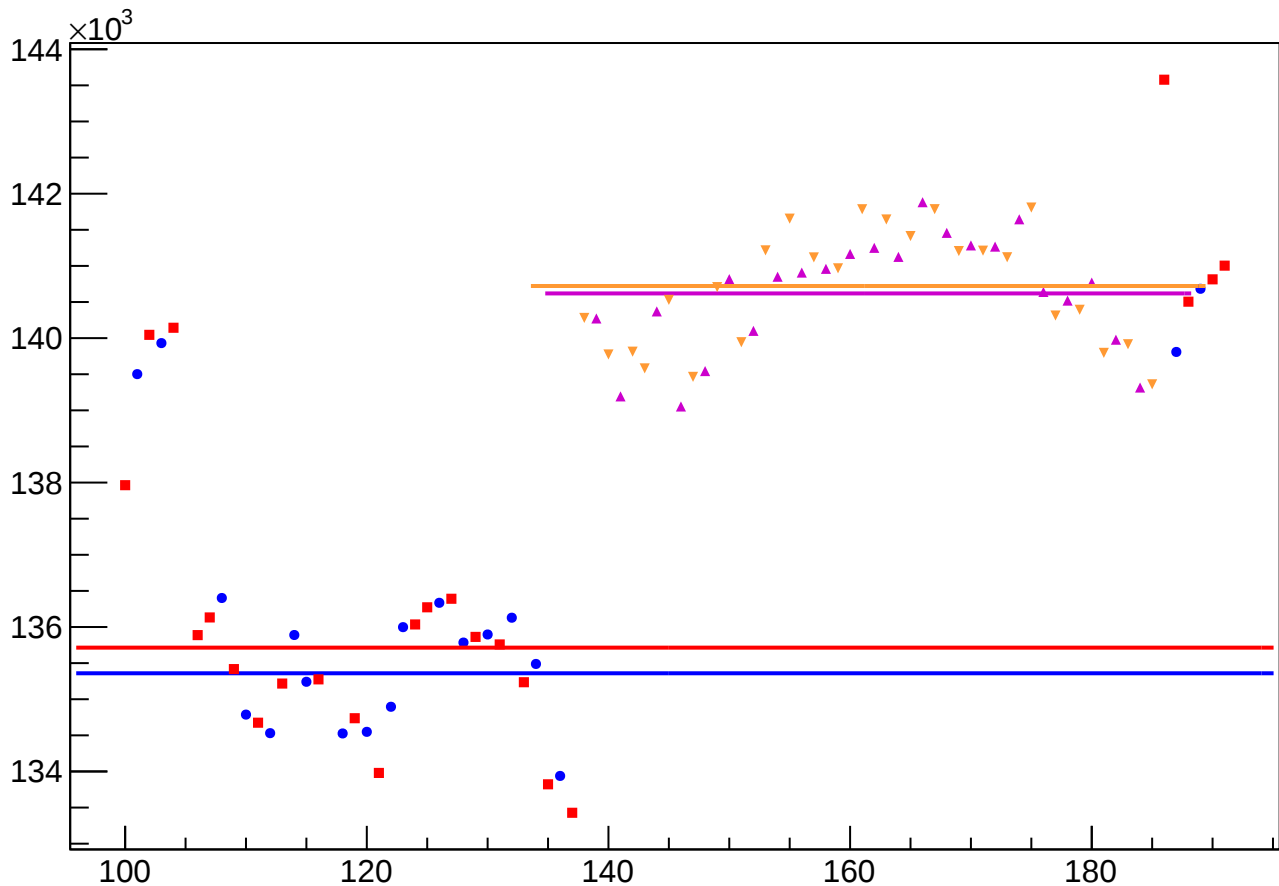
Right: 274.649 $\pm$ 0.052 χ^2 /NDF: 3203832.4/41

In: 275.996 $\pm$ 0.041 χ^2 /NDF:3763634.2/41

Out: 263.465 $\pm$ 0.038 χ^2 /NDF:4468287.0/47

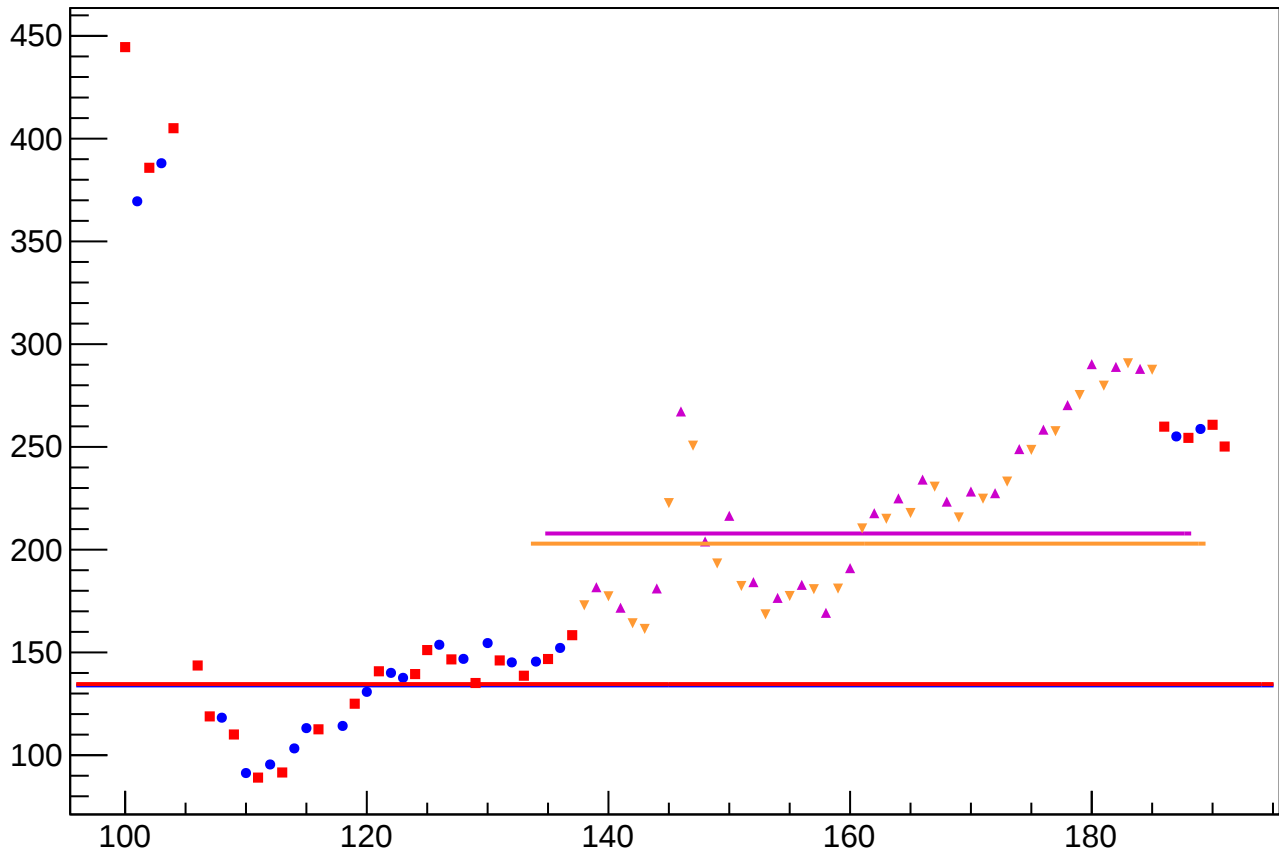
All: 269.145 $\pm$ 0.028 χ^2 /NDF: 8281947.6/89

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135359.430+/-0.054	χ^2/NDF : 626983342.4/18	Left: 140673.196+/-0.035	χ^2/NDF : 449761004.9/47
Left Out: 140721.823+/-0.048	χ^2/NDF : 247257762.8/24	Right: 135551.826+/-0.036	χ^2/NDF : 1977278631.4/47
Right Out: 135714.471+/-0.049	χ^2/NDF : 1326593190.9/22	In: 138119.594+/-0.037	χ^2/NDF : 5864702495.8/47
Left In: 140619.038+/-0.051	χ^2/NDF : 200370178.0/22	Out: 138266.919+/-0.035	χ^2/NDF : 6819924497.8/47
		All: 138198.288+/-0.025	χ^2/NDF : 126930922.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 133.954 $\pm$ 0.038 χ^2 /NDF: 1671891.5/18

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 134.597 $\pm$ 0.035 χ^2 /NDF: 2332981.2/22

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

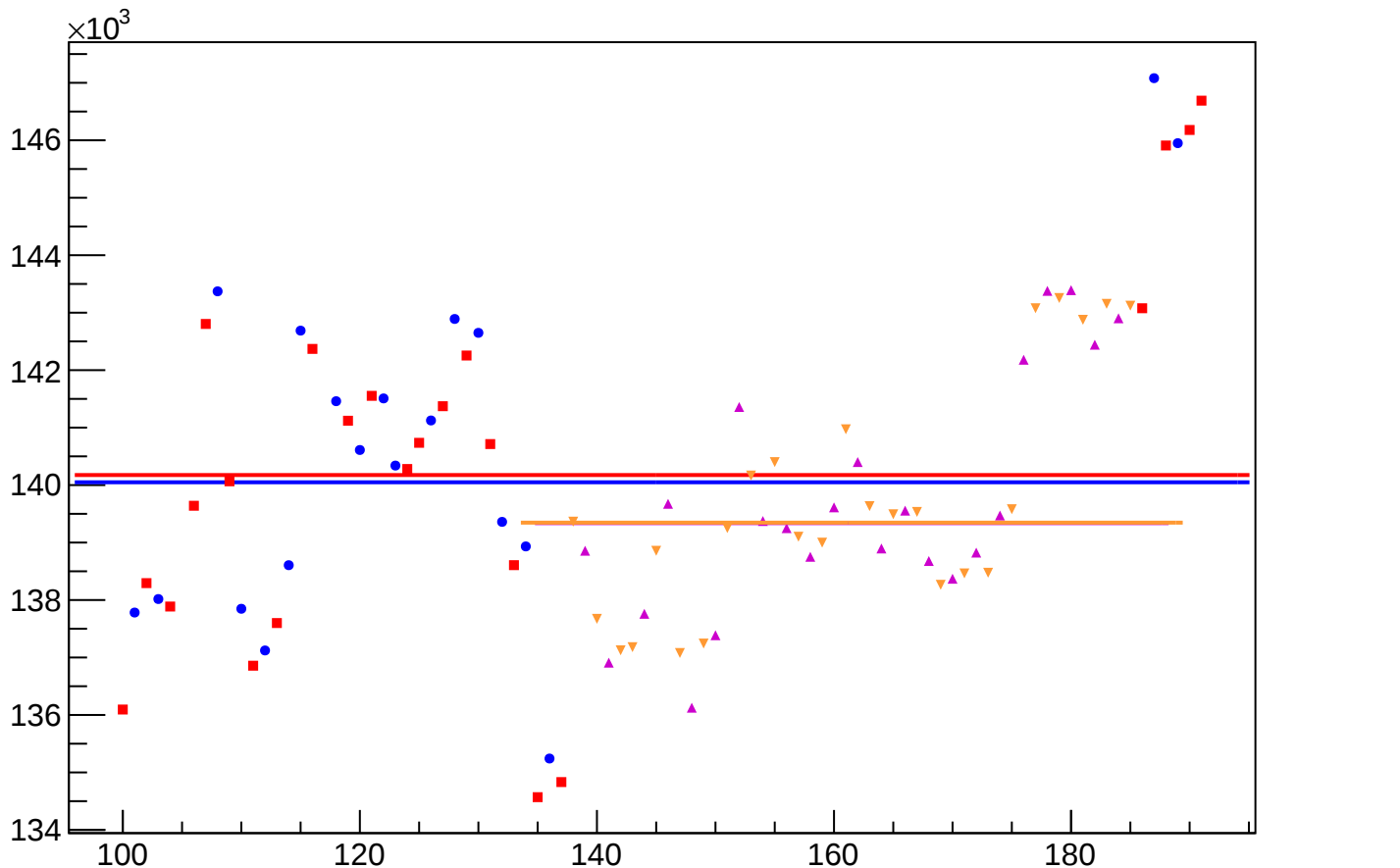
Right: 134.303 $\pm$ 0.026 χ^2 /NDF: 4005028.6/41

In: 172.745 $\pm$ 0.026 χ^2 /NDF:4610973.2/41

Out: 169.431 $\pm$ 0.024 χ^2 /NDF:5339401.5/47

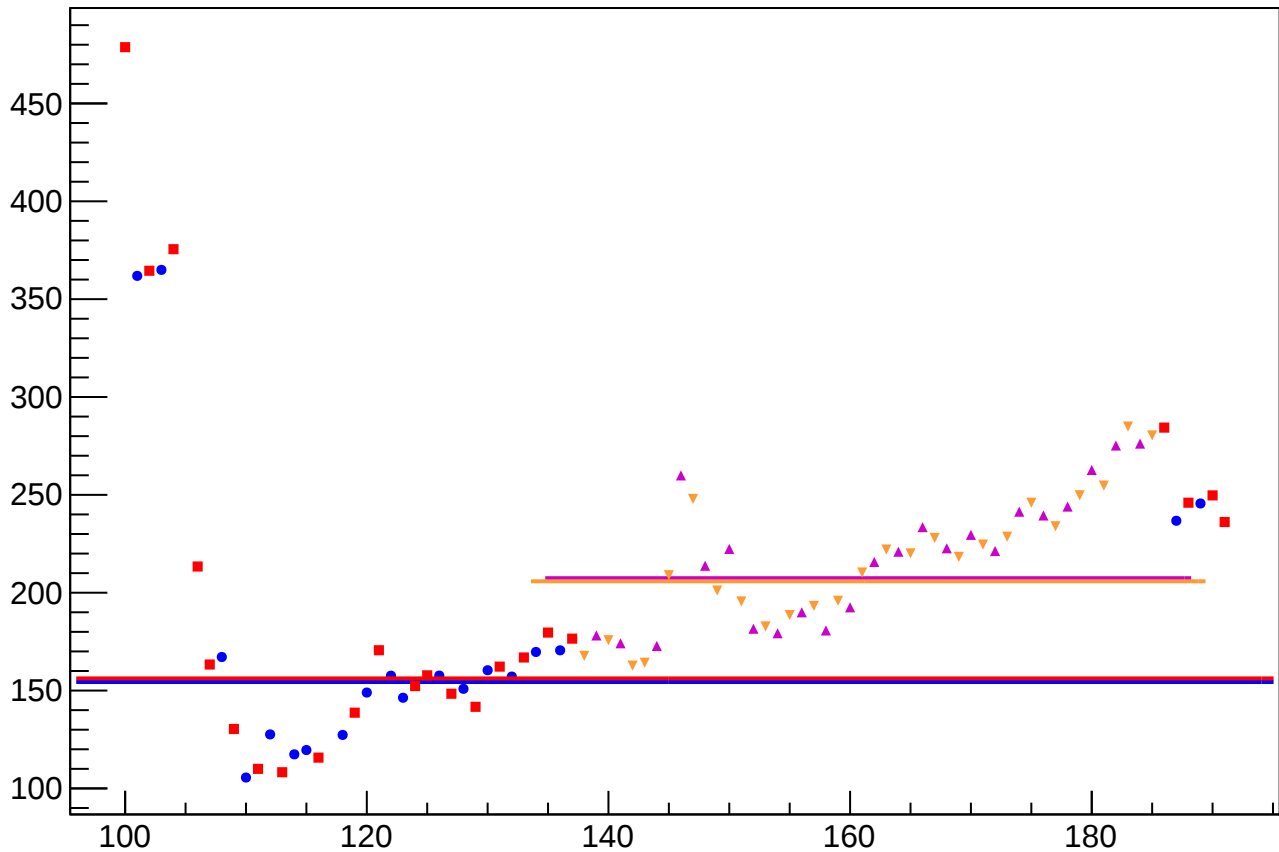
All: 170.975 $\pm$ 0.018 χ^2 /NDF: 9958939.1/89

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140048.882 ± 0.061 $\chi^2/\text{NDF}: 2091809414.0/18$
 Left Out: 139346.604 ± 0.049 $\chi^2/\text{NDF}: 1271172976.7/24$
 Right Out: 140174.847 ± 0.056 $\chi^2/\text{NDF}: 2496242360.1/22$
 Left In: 139337.874 ± 0.051 $\chi^2/\text{NDF}: 1293003954.9/22$
 Left: 139342.403 ± 0.035 $\chi^2/\text{NDF}: 2564192227.9/18$
 Right: 140116.765 ± 0.041 $\chi^2/\text{NDF}: 4590362576.7/24$
 In: 139630.263 ± 0.039 $\chi^2/\text{NDF}: 3465248574.3/41$
 Out: 139703.518 ± 0.037 $\chi^2/\text{NDF}: 3890710946.7/41$
 All: 139668.887 ± 0.027 $\chi^2/\text{NDF}: 735781884.9/82$

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 154.389+/-0.043 χ^2/NDF : 1224671.9/18

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

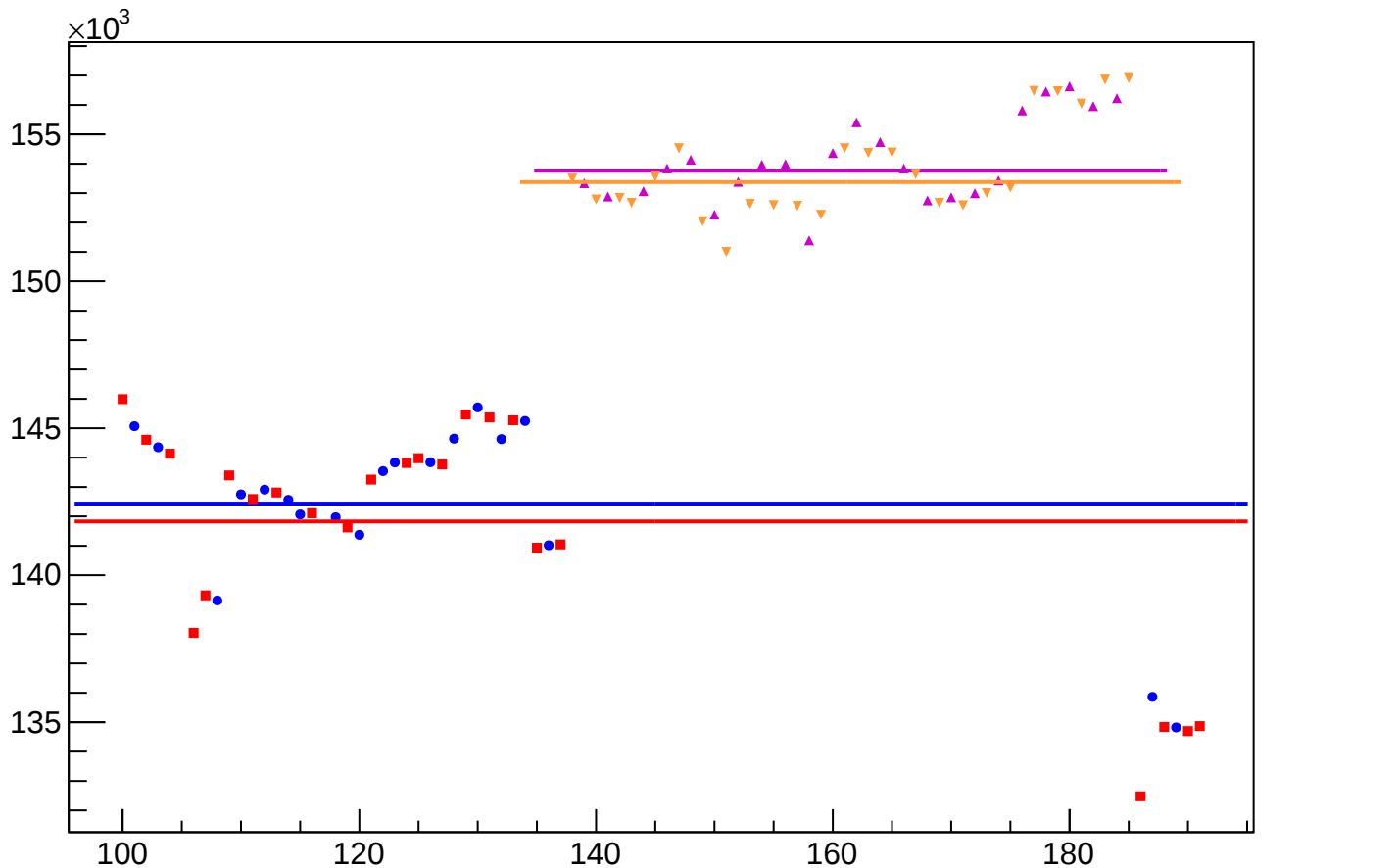
Right: 155.369+/-0.029 χ^2/NDF : 3020110.4/41

In: 185.610+/-0.028 χ^2/NDF : 2821409.9/41

Out: 184.447+/-0.026 χ^2/NDF : 3418426.6/47

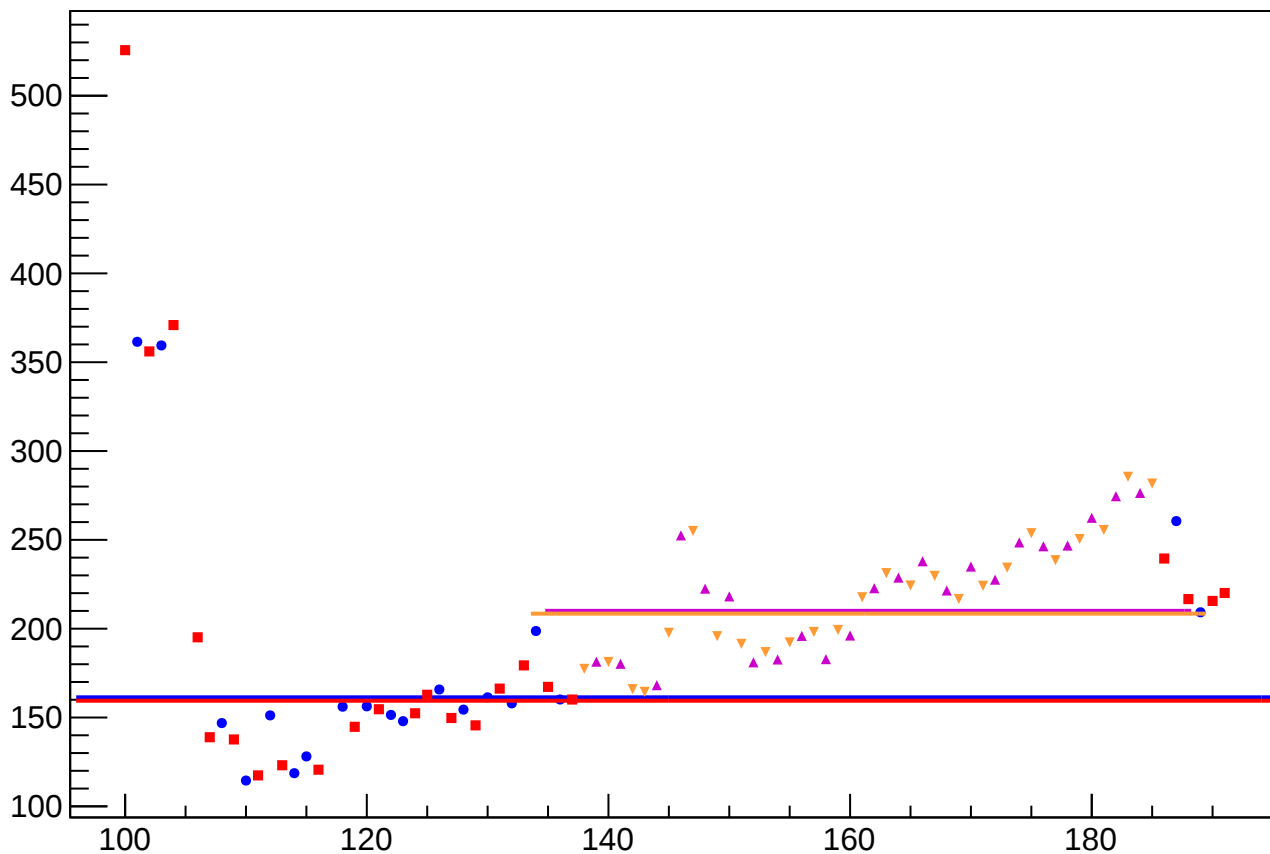
All: 184.997+/-0.019 χ^2/NDF : 6240772.8/89

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142434.784 $\pm$ 0.063	χ^2 /NDF: 1508468300.3/18	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: 142098.789 $\pm$ 0.042	χ^2 /NDF: 4800733341.7/4
Right Out: 141827.714 $\pm$ 0.057	χ^2 /NDF: 3240974651.4/22	In: 149235.949 $\pm$ 0.040	χ^2 /NDF: 21516119504.6/4
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: 148775.056 $\pm$ 0.027	χ^2 /NDF: 493675642.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 161.359 $\pm$ 0.045 χ^2 /NDF: 981918.3/18

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 159.451 $\pm$ 0.040 χ^2 /NDF: 1329877.7/22

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

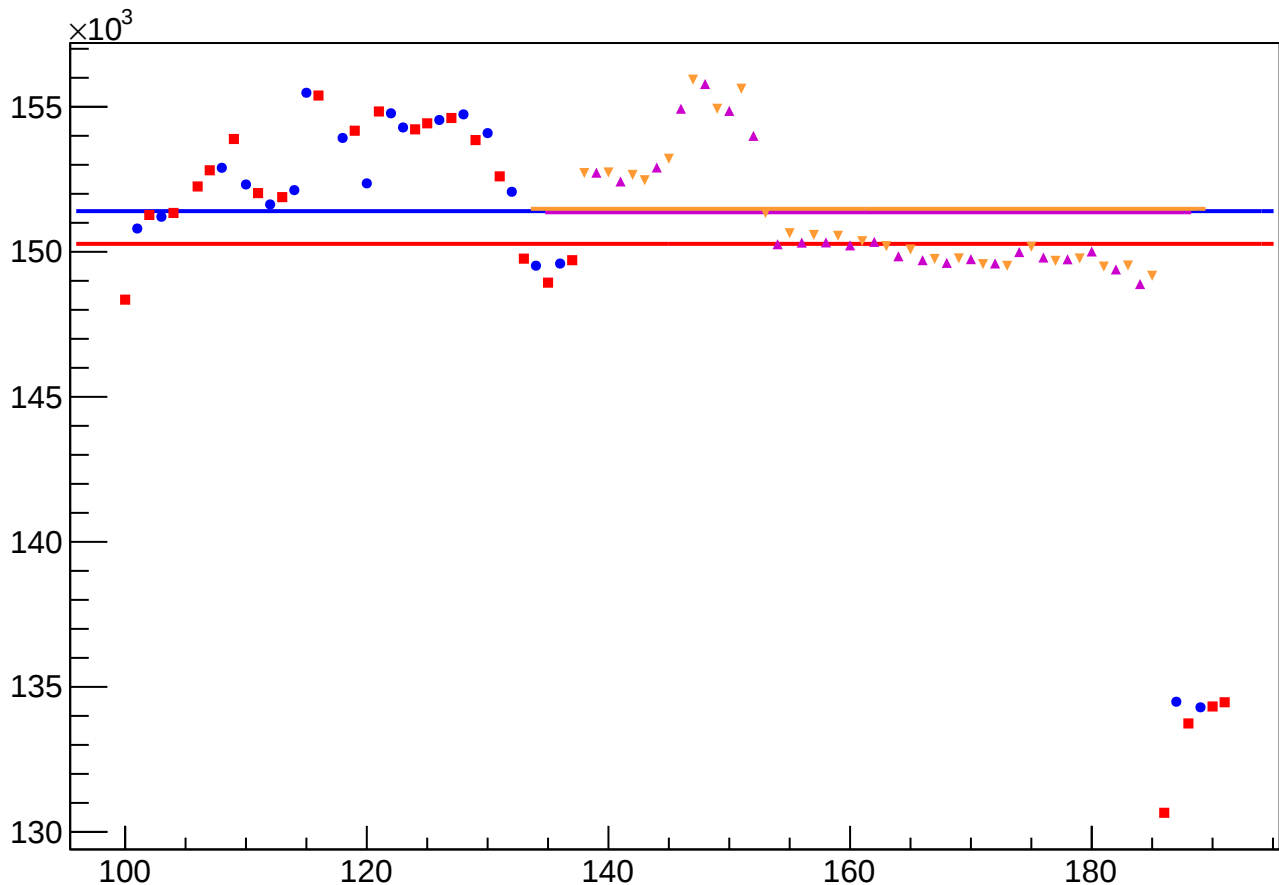
Right: 160.303 $\pm$ 0.030 χ^2 /NDF: 2312809.5/41

In: 190.586 $\pm$ 0.028 χ^2 /NDF: 2399803.7/41

Out: 187.225 $\pm$ 0.026 χ^2 /NDF: 2899371.9/47

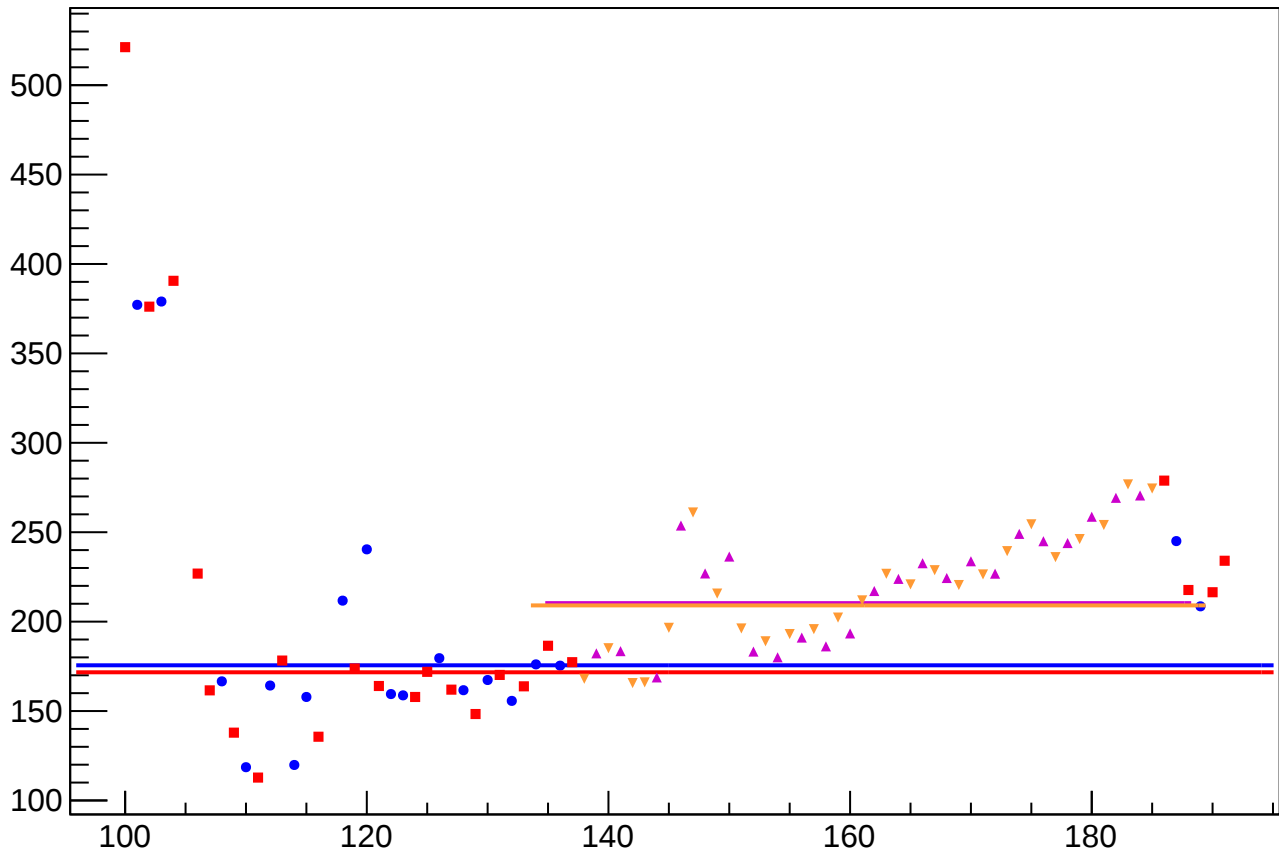
All: 188.793 $\pm$ 0.019 χ^2 /NDF: 5306760.1/89

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 151402.986 $\pm$ 0.070	χ^2 /NDF: 4820368810.9/18	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: 150768.798 $\pm$ 0.046	χ^2 /NDF: 17147126540.0
Right Out: 150274.921 $\pm$ 0.062	χ^2 /NDF: 12180148757.4/22	In: 151377.152 $\pm$ 0.041	χ^2 /NDF: 6242241723.2/41
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: 151009.382 $\pm$ 0.039	χ^2 /NDF: 13895625130.7
		All: 151180.442 $\pm$ 0.028	χ^2 /NDF: 201800740

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 175.581 $\pm$ 0.049 χ^2 /NDF: 995842.4/18

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

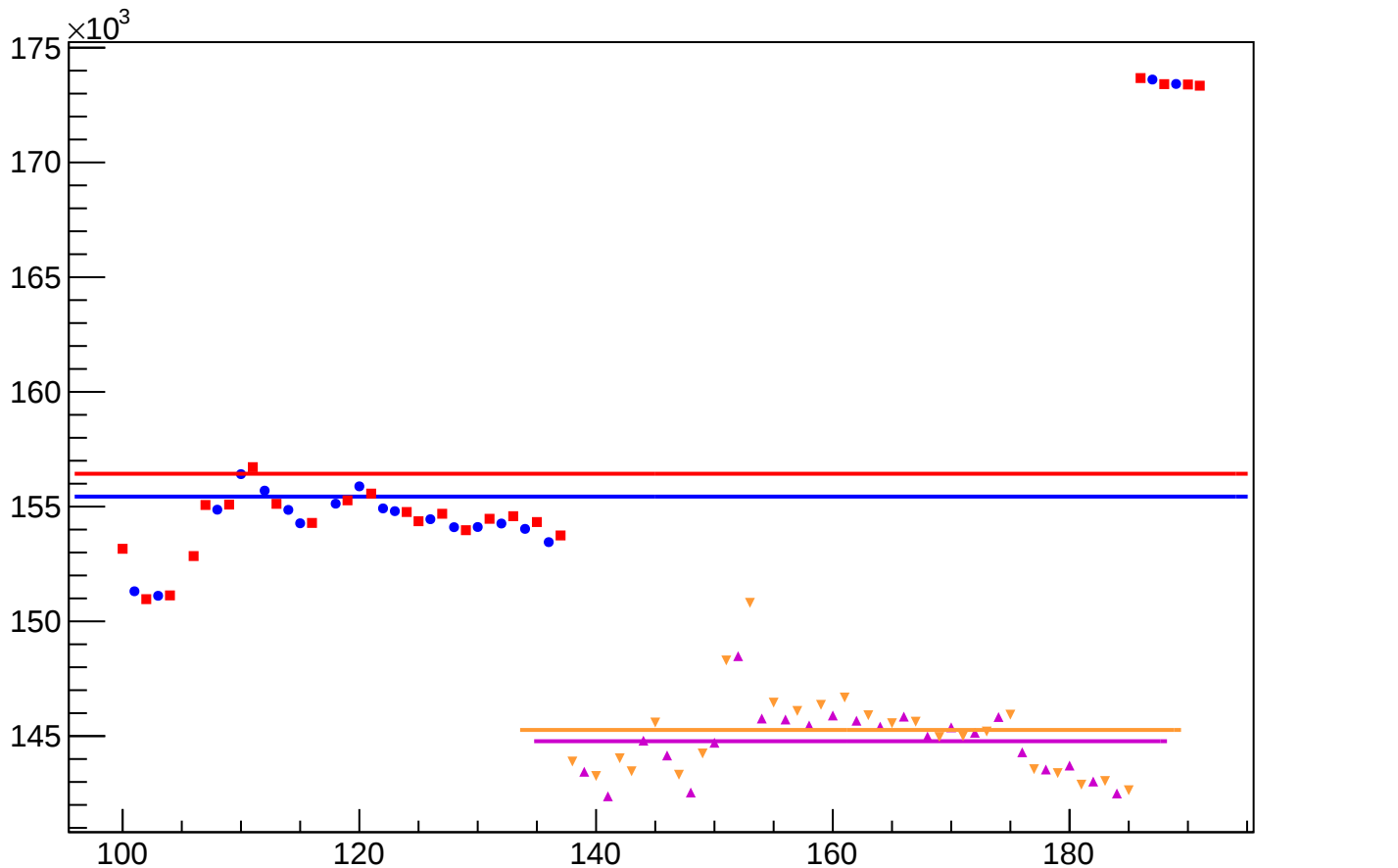
Right: 173.383 $\pm$ 0.033 χ^2 /NDF: 2321809.7/41

In: 198.134 $\pm$ 0.029 χ^2 /NDF: 1994936.5/41

Out: 194.405 $\pm$ 0.027 χ^2 /NDF: 2478213.1/47

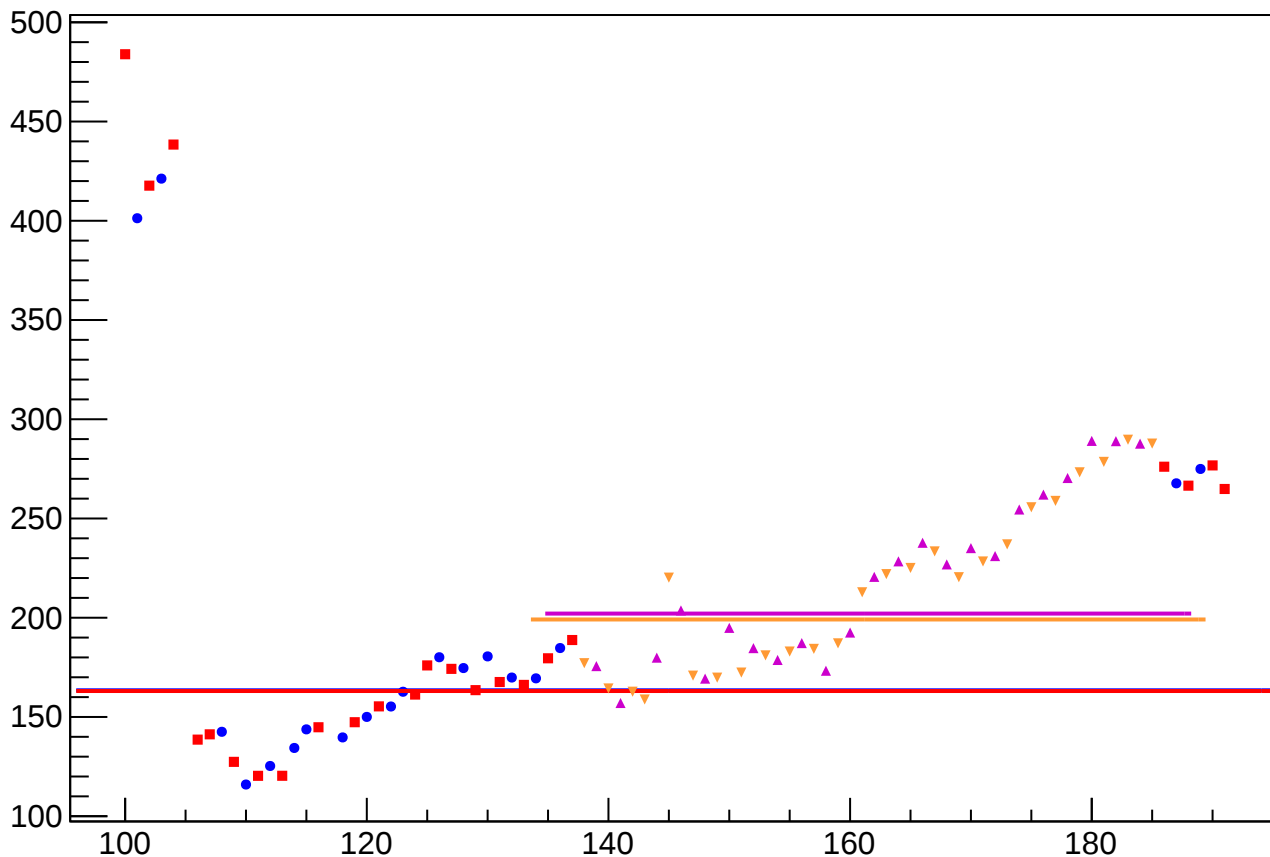
All: 196.139 $\pm$ 0.020 χ^2 /NDF: 4481827.0/89

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 155437.237+/-0.064	χ^2/NDF : 3108414641.4/18	Left: 145032.324+/-0.034	χ^2/NDF : 2687033506.0/4
Left Out: 145266.717+/-0.047	χ^2/NDF : 1717707352.7/24	Right: 155984.657+/-0.043	χ^2/NDF : 11624017192.4/18
Right Out: 156432.984+/-0.058	χ^2/NDF : 8383845897.8/22	In: 148747.602+/-0.039	χ^2/NDF : 21265545701.9/4
Left In: 144776.016+/-0.050	χ^2/NDF : 918120275.4/22	Out: 149718.183+/-0.037	χ^2/NDF : 32230972070.7/18
		All: 149264.854+/-0.027	χ^2/NDF : 538222644.4/18

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 163.429 $\pm$ 0.045 χ^2 /NDF: 1342379.5/18

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

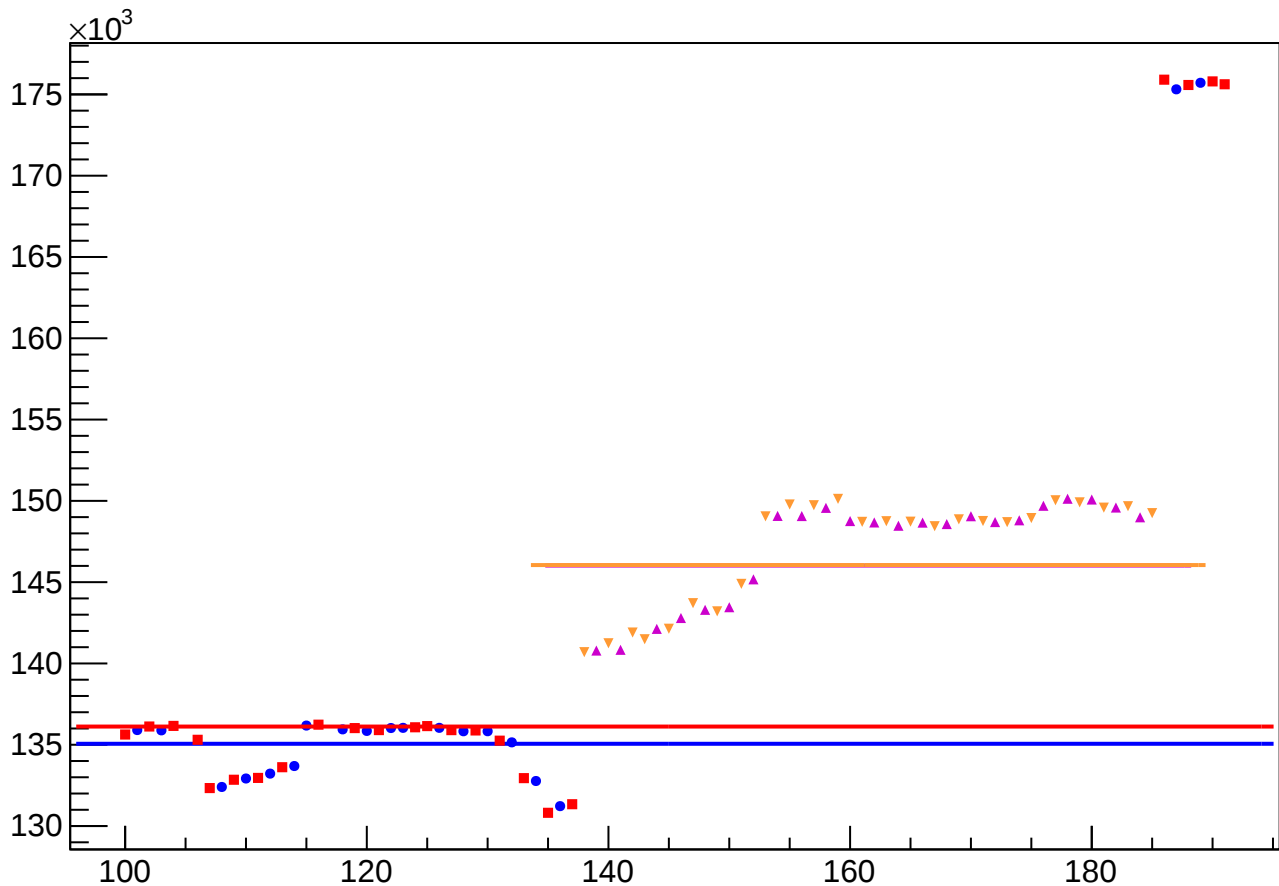
Right: 163.235 $\pm$ 0.031 χ^2 /NDF: 3151685.1/41

In: 187.688 $\pm$ 0.028 χ^2 /NDF:2853610.2/41

Out: 184.750 $\pm$ 0.026 χ^2 /NDF:3422598.0/47

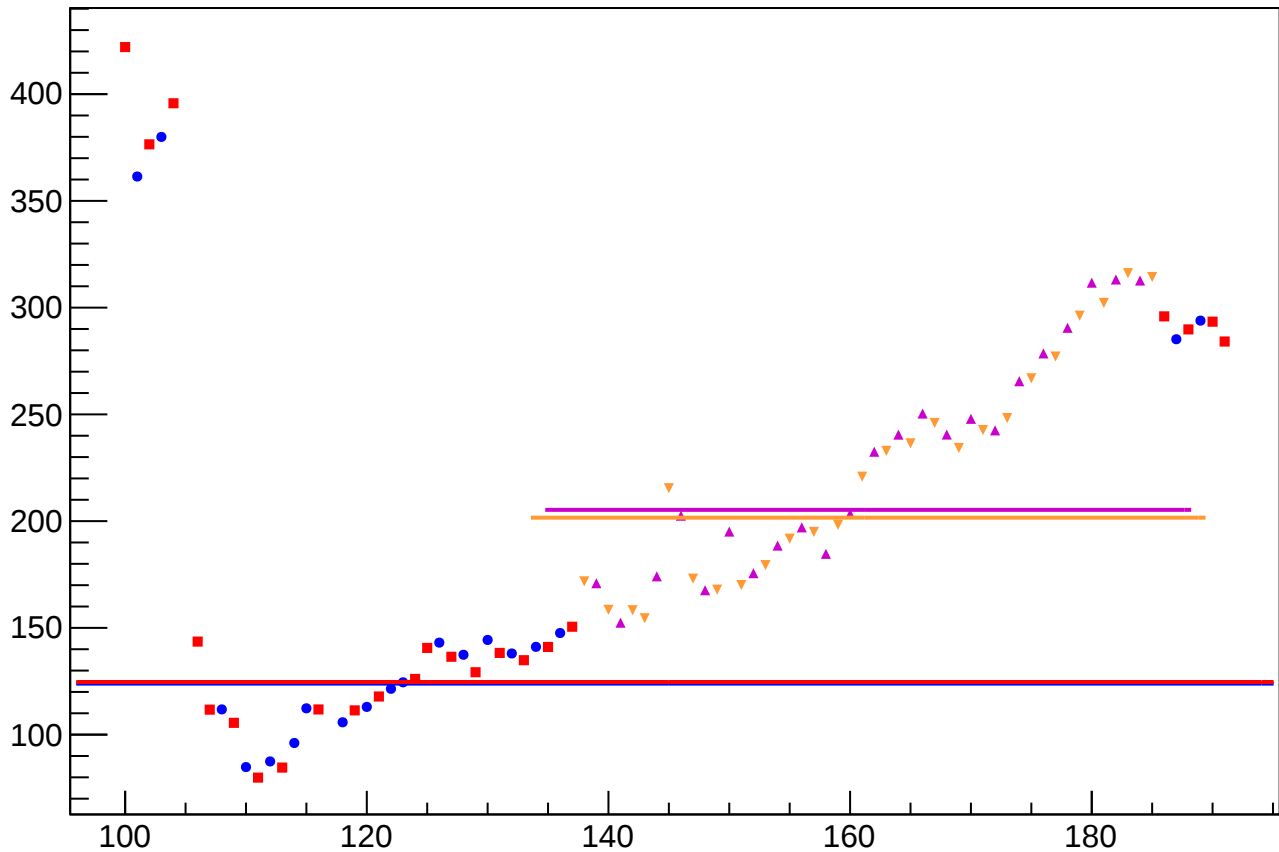
All: 186.122 $\pm$ 0.019 χ^2 /NDF: 6282177.6/89

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 135059.461 $\pm$ 0.050	χ^2 /NDF: 13550395240.3/18	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: 135629.495 $\pm$ 0.034	χ^2 /NDF: 51123119777.1/4
Right Out: 136119.099 $\pm$ 0.046	χ^2 /NDF: 37330438130.6/22	In: 140461.032 $\pm$ 0.036	χ^2 /NDF: 41889614307.0/4
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 140872.292 $\pm$ 0.033	χ^2 /NDF: 64782153738.0/4
		All: 140679.429 $\pm$ 0.024	χ^2 /NDF: 106742803.0/4

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 123.907 $\pm$ 0.035 χ^2 /NDF: 1890272.8/18

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

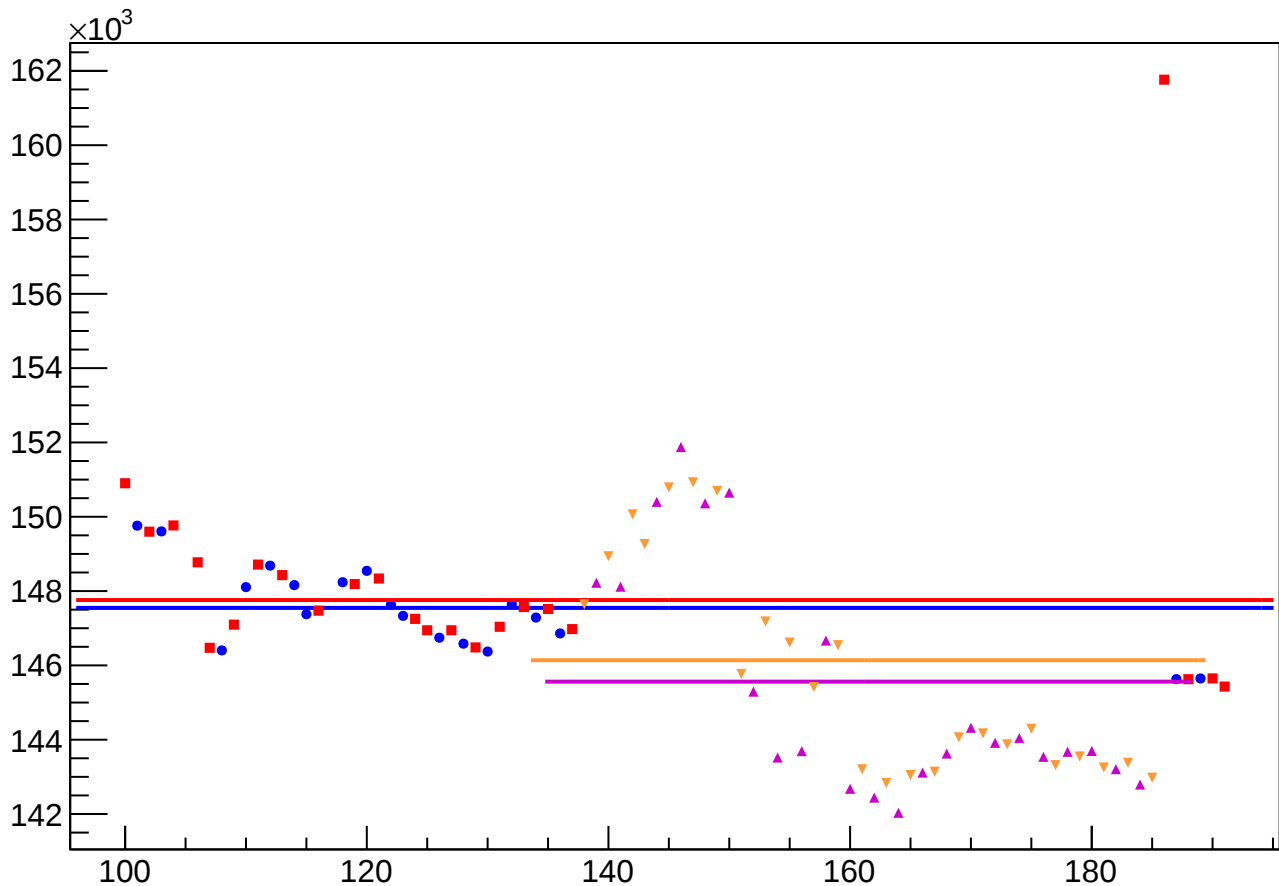
Right: 124.313 $\pm$ 0.024 χ^2 /NDF: 4700870.4/41

In: 164.012 $\pm$ 0.025 χ^2 /NDF:5933816.7/41

Out: 161.495 $\pm$ 0.024 χ^2 /NDF:7047972.6/47

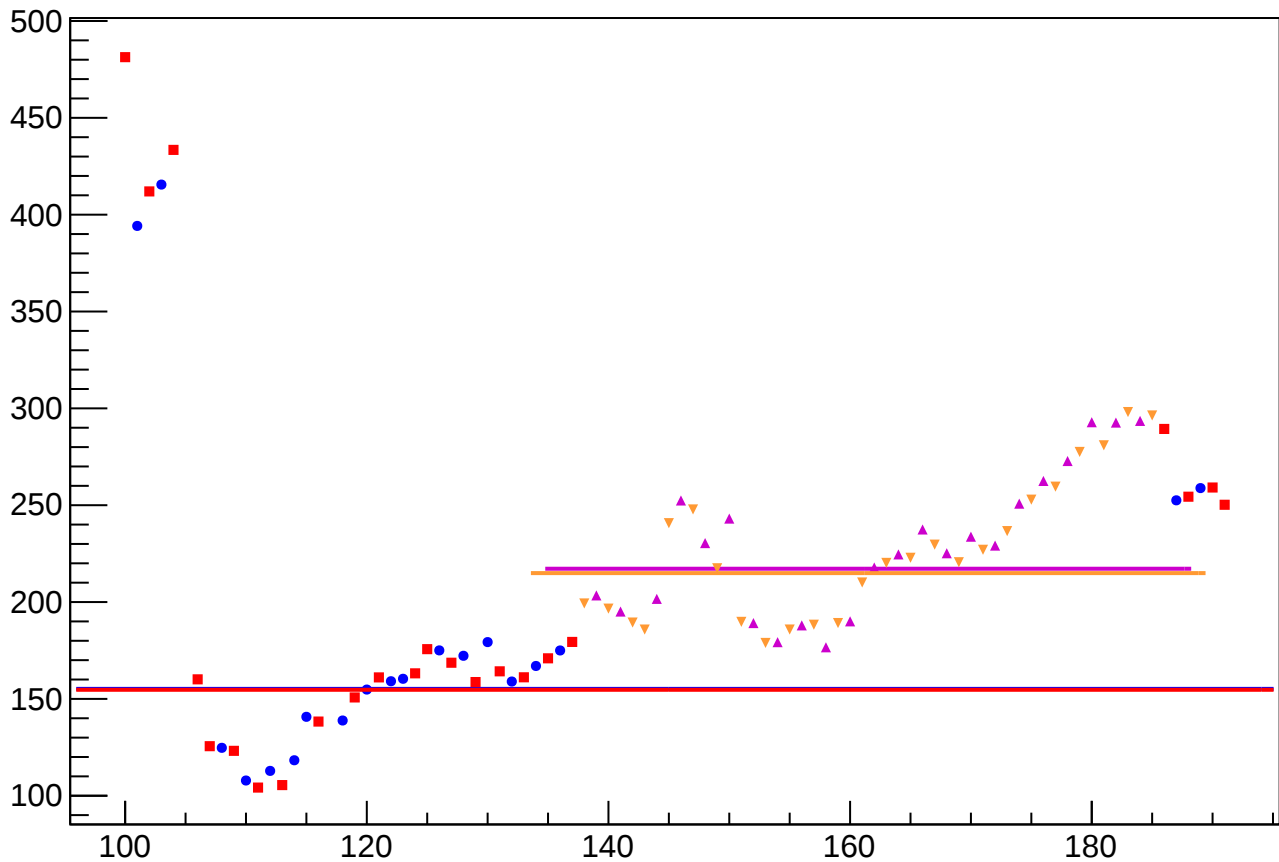
All: 162.675 $\pm$ 0.017 χ^2 /NDF: 12987113.7/89

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147547.271 $\pm$ 0.061	χ^2/NDF : 234359574.5/18	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: 147663.024 $\pm$ 0.041	χ^2/NDF : 1439773027.2/4
Right Out: 147758.488 $\pm$ 0.056	χ^2/NDF : 1198938749.9/22	In: 146410.319 $\pm$ 0.040	χ^2/NDF : 3886633935.9/4
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: 146657.759 $\pm$ 0.027	χ^2/NDF : 831584825

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 155.169 $\pm$ 0.043 χ^2 /NDF: 1465798.1/18

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 154.705 $\pm$ 0.039 χ^2 /NDF: 2048681.0/22

Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

Left: 216.027 $\pm$ 0.026 χ^2 /NDF: 1495200.1/47

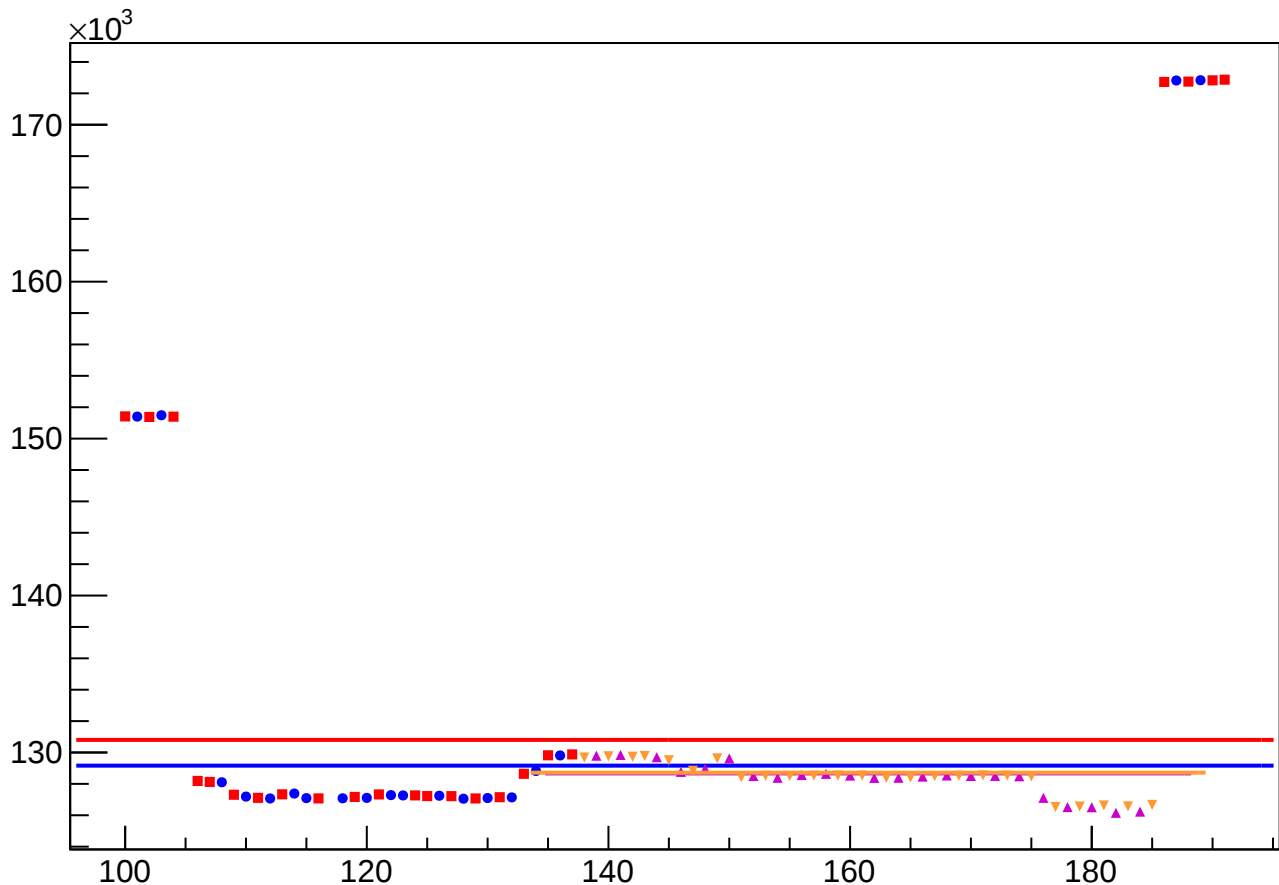
Right: 154.915 $\pm$ 0.029 χ^2 /NDF: 3514541.8/41

In: 190.703 $\pm$ 0.028 χ^2 /NDF: 3398084.6/41

Out: 187.585 $\pm$ 0.027 χ^2 /NDF: 4049248.5/47

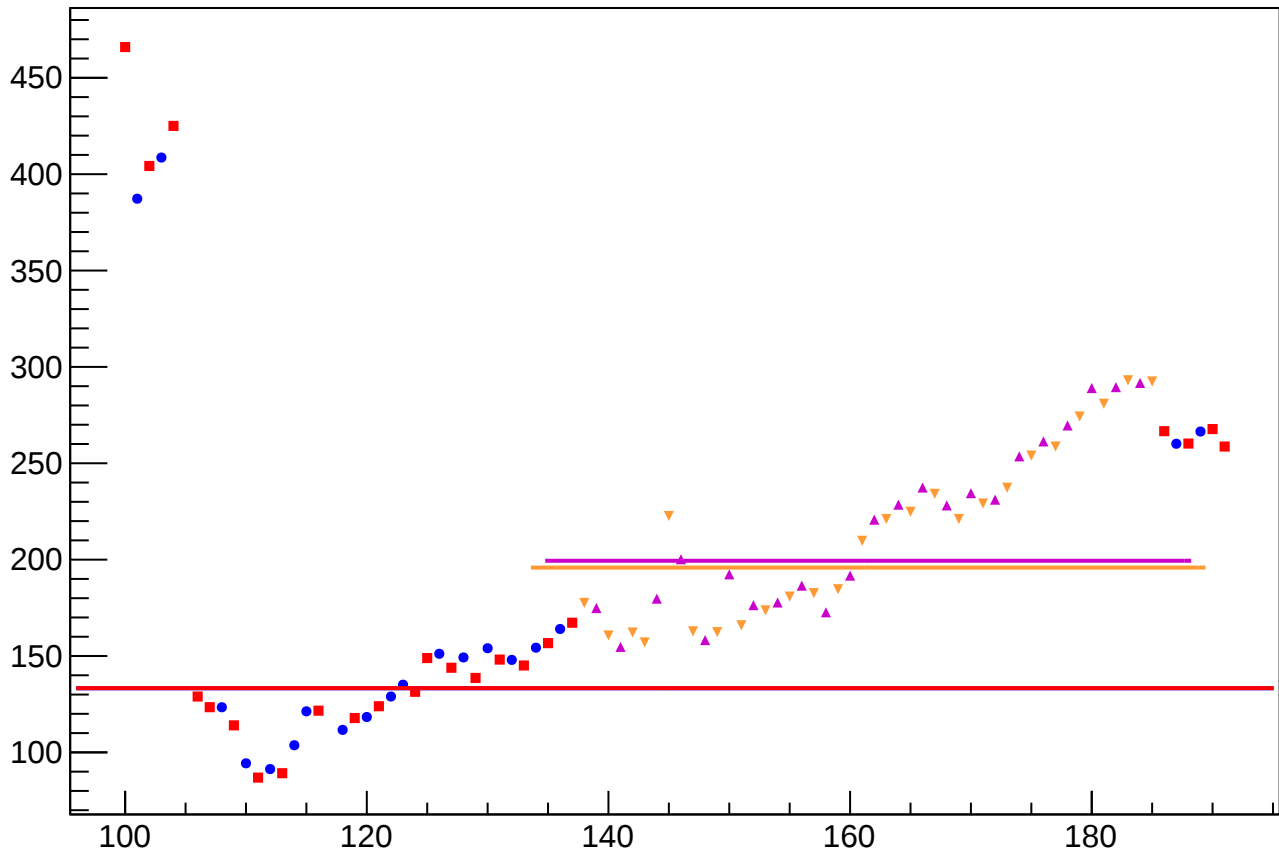
All: 189.042 $\pm$ 0.019 χ^2 /NDF: 7453754.5/89

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 129162.130+/-0.054 χ^2/NDF : 21890497397.3/18
 Left Out: 128714.507+/-0.047 χ^2/NDF : 348178101.1/24
 Right Out: 130802.909+/-0.049 χ^2/NDF : 54496437498.9/22
 Left In: 128667.013+/-0.049 χ^2/NDF : 333059477.6/22
 Left: 128691.898+/-0.034 χ^2/NDF : 681729975.4/47
 Right: 130058.750+/-0.036 χ^2/NDF : 76900674538.8/47
 In: 128892.780+/-0.036 χ^2/NDF : 22270127137.4/47
 Out: 129713.804+/-0.034 χ^2/NDF : 55801613353.8/47
 All: 129331.611+/-0.025 χ^2/NDF : 783476616.1/94

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 133.243 $\pm$ 0.038 χ^2 /NDF: 1803280.0/18

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

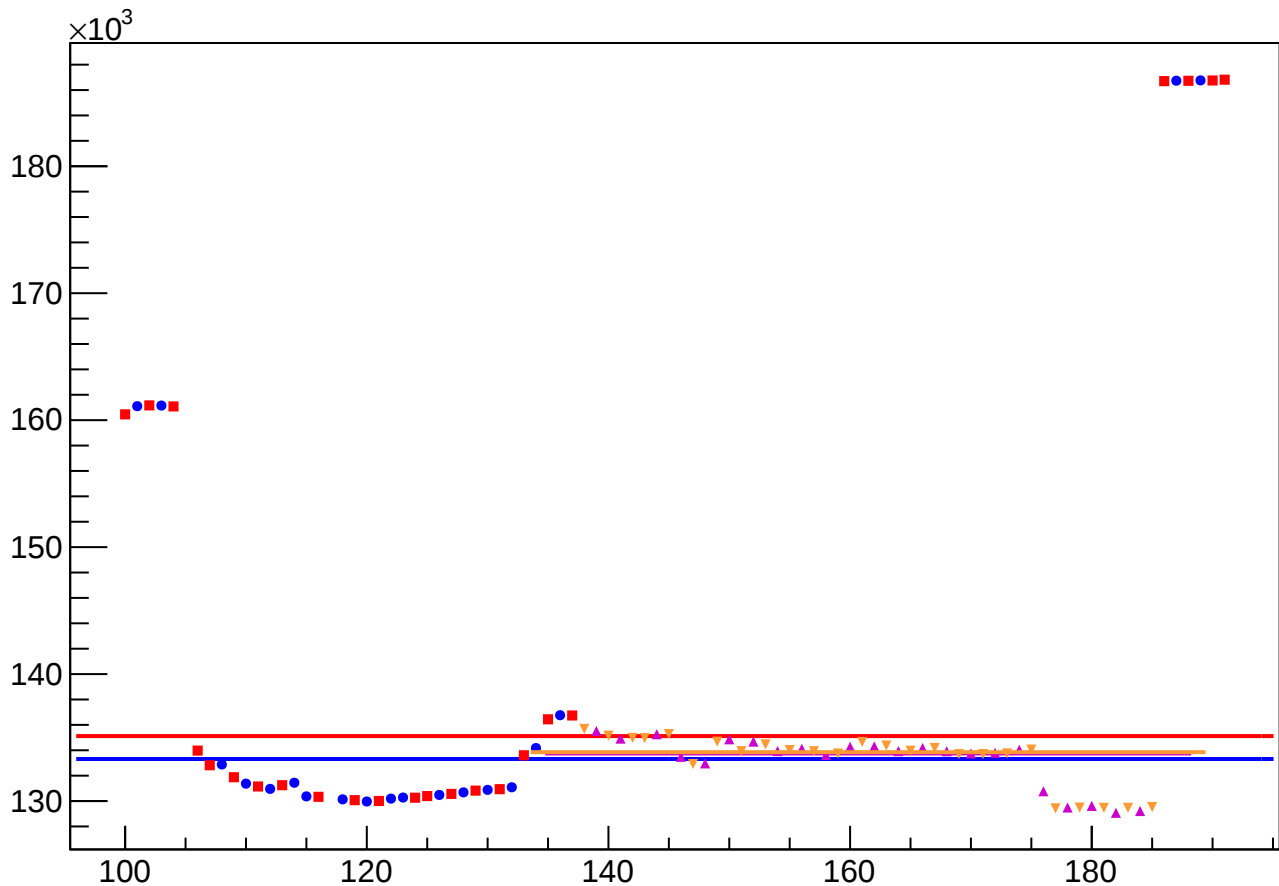
Right: 133.288 $\pm$ 0.025 χ^2 /NDF: 4293061.7/41

In: 169.240 $\pm$ 0.026 χ^2 /NDF: 4632608.9/41

Out: 165.950 $\pm$ 0.024 χ^2 /NDF: 5520489.4/47

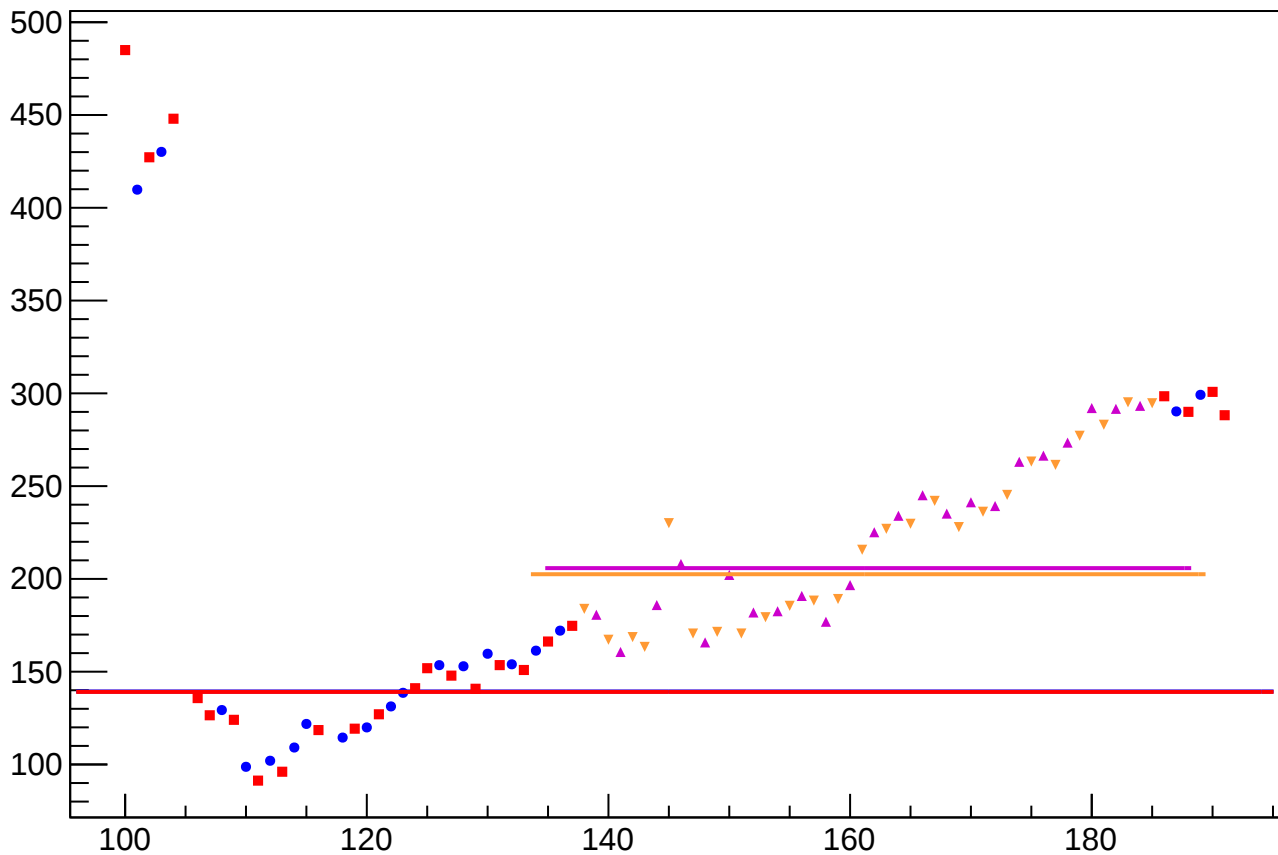
All: 167.481 $\pm$ 0.017 χ^2 /NDF: 10161964.6/89

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 133313.414 $\pm$ 0.056 χ^2/NDF : 27598097794.4/18
 Left: 133802.452 $\pm$ 0.035 χ^2/NDF : 2036267179.3/4
 Left Out: 133850.586 $\pm$ 0.048 χ^2/NDF : 1080107831.1/24
 Right: 134298.029 $\pm$ 0.038 χ^2/NDF : 95058272442.3/4
 Right Out: 135116.674 $\pm$ 0.051 χ^2/NDF : 66893462431.8/22
 In: 133553.826 $\pm$ 0.038 χ^2/NDF : 28585640304.3/4
 Out: 134447.722 $\pm$ 0.035 χ^2/NDF : 68298707867.8/4
 Left In: 133749.630 $\pm$ 0.051 χ^2/NDF : 954069486.7/22
 All: 134030.924 $\pm$ 0.026 χ^2/NDF : 971876059.3/4

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 139.338 $\pm$ 0.040 χ^2 /NDF: 1805815.2/18

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

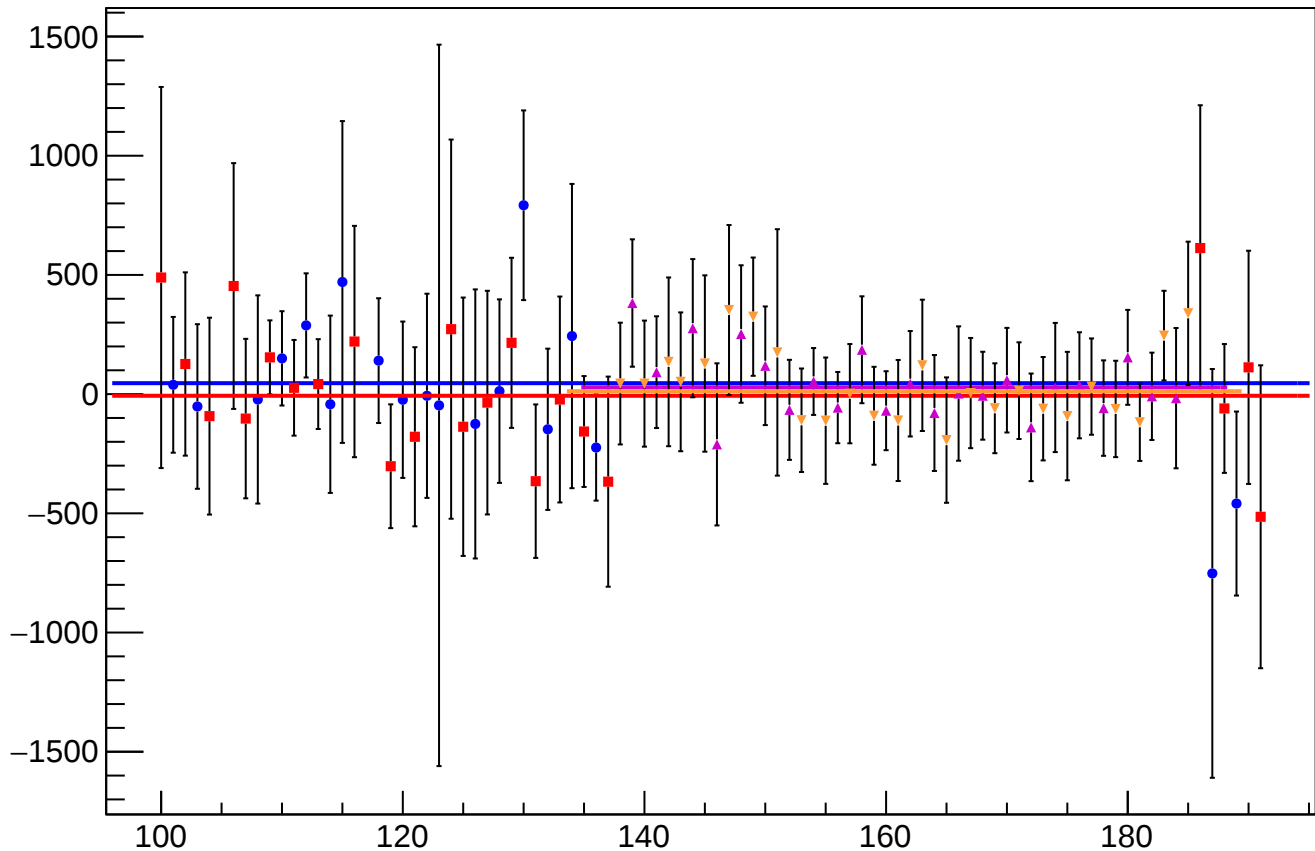
Right: 139.213 $\pm$ 0.027 χ^2 /NDF: 4394585.7/41

In: 175.972 $\pm$ 0.027 χ^2 /NDF:4454566.0/41

Out: 172.617 $\pm$ 0.025 χ^2 /NDF:5432289.0/47

All: 174.181 $\pm$ 0.018 χ^2 /NDF: 9895398.4/89

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 45.939 $\pm$ 77.298 χ^2 /NDF: 10.4/18

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

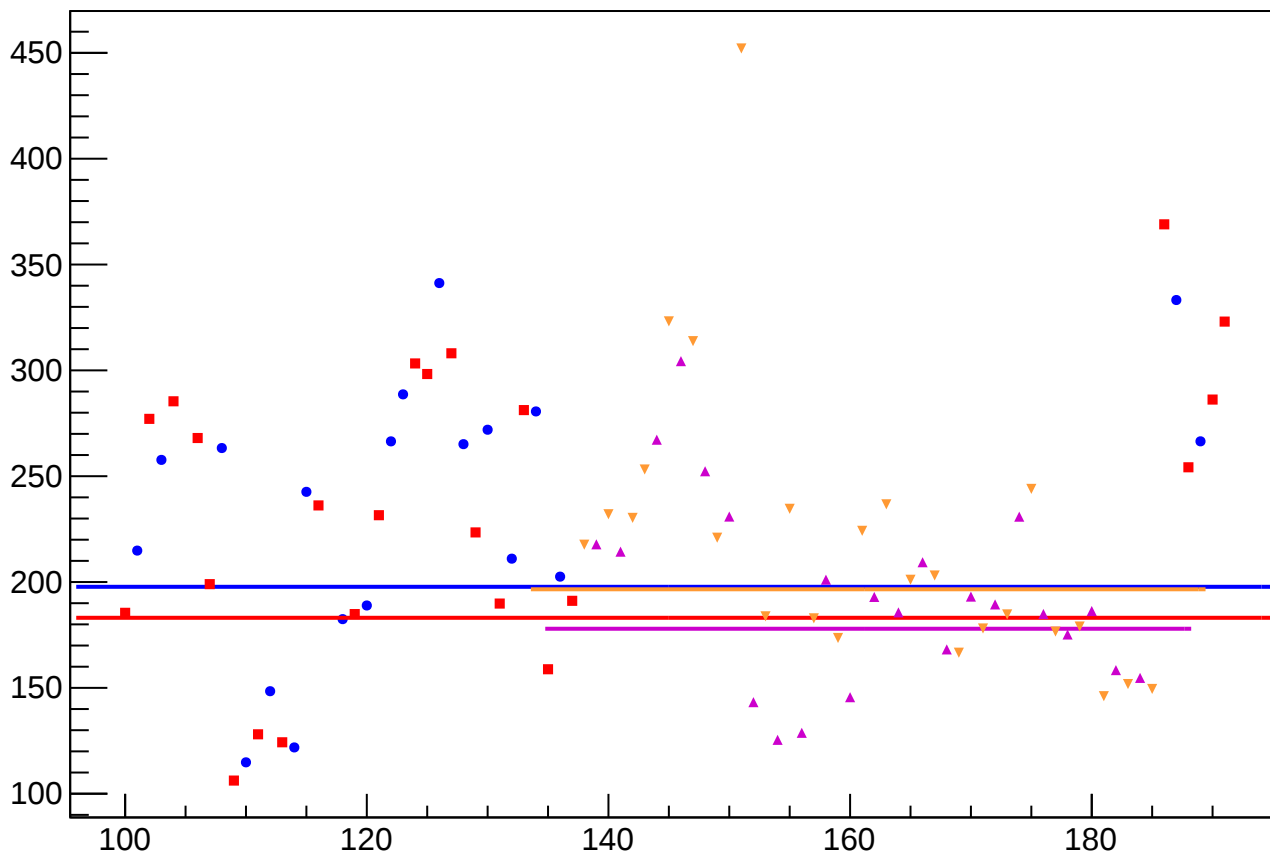
Right: 15.550 $\pm$ 50.371 χ^2 /NDF: 19.6/41

In: 32.832 $\pm$ 38.688 χ^2 /NDF:17.0/41

Out: 5.724 $\pm$ 38.651 χ^2 /NDF:17.7/47

All: 19.265 $\pm$ 27.343 χ^2 /NDF: 35.0/89

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 197.749 $\pm$ 0.055 χ^2 /NDF: 1136653.6/18

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF: 1778719.0/24

Right Out: 183.111 $\pm$ 0.047 χ^2 /NDF: 2141994.2/22

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF: 1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

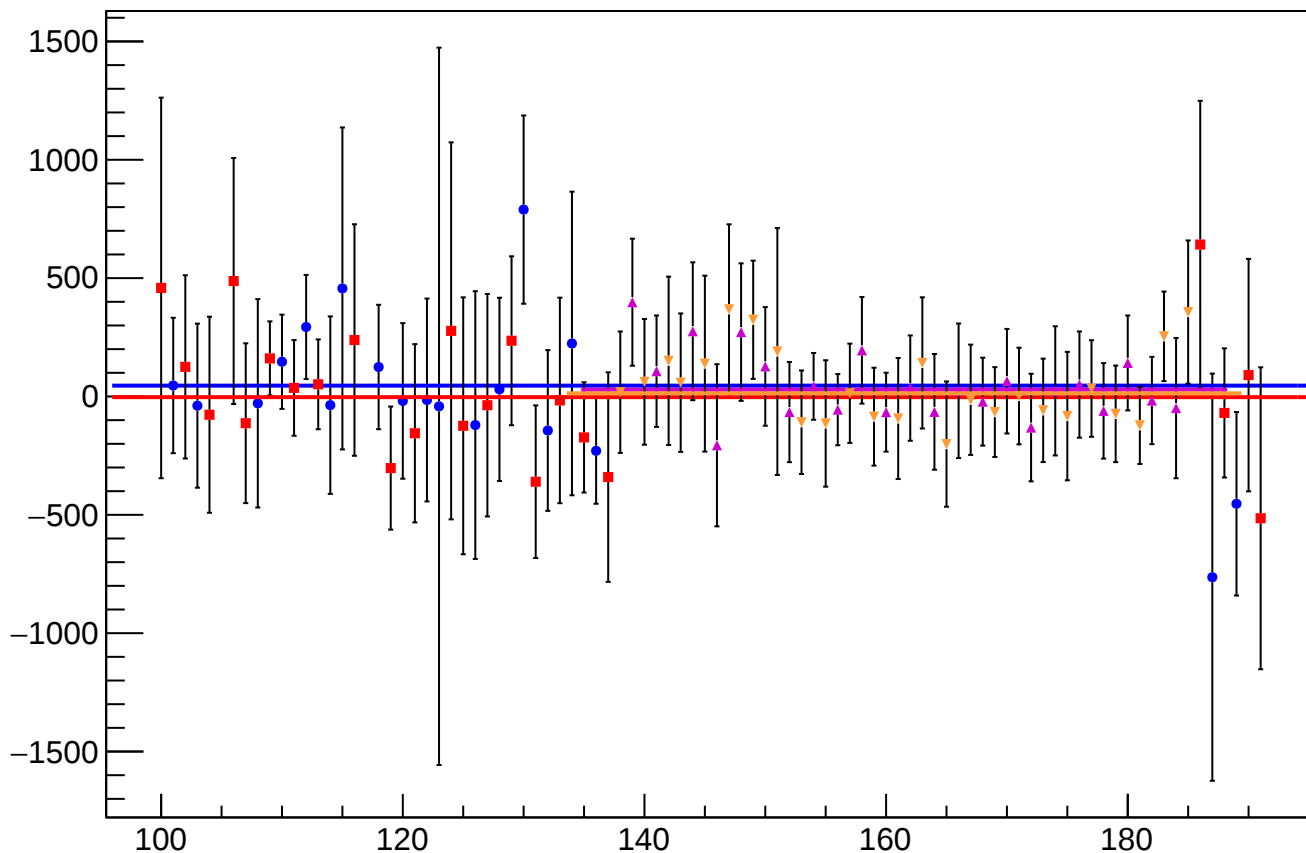
Right: 189.327 $\pm$ 0.036 χ^2 /NDF: 3319917.1/41

In: 182.897 $\pm$ 0.027 χ^2 /NDF: 2840951.7/41

Out: 192.015 $\pm$ 0.027 χ^2 /NDF: 3975088.8/47

All: 187.460 $\pm$ 0.019 χ^2 /NDF: 6871634.7/89

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 45.820+/-77.673 χ^2/NDF : 10.2/18

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

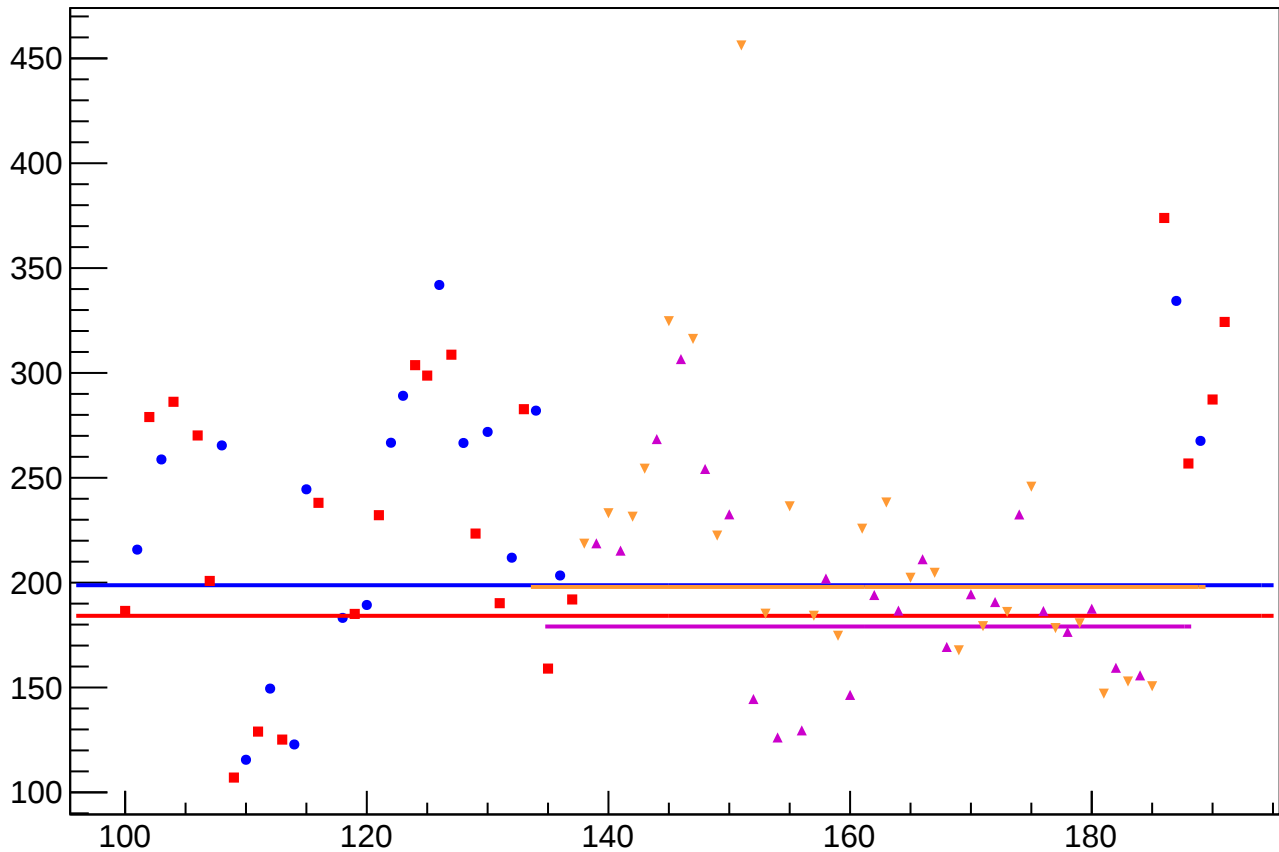
Right: 17.860+/-50.637 χ^2/NDF : 19.7/41

In: 33.079+/-38.924 χ^2/NDF : 17.1/41

Out: 7.896+/-38.902 χ^2/NDF : 18.3/47

All: 20.480+/-27.516 χ^2/NDF : 35.6/89

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 198.771 $\pm$ 0.055 χ^2/NDF : 1127583.7/18

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

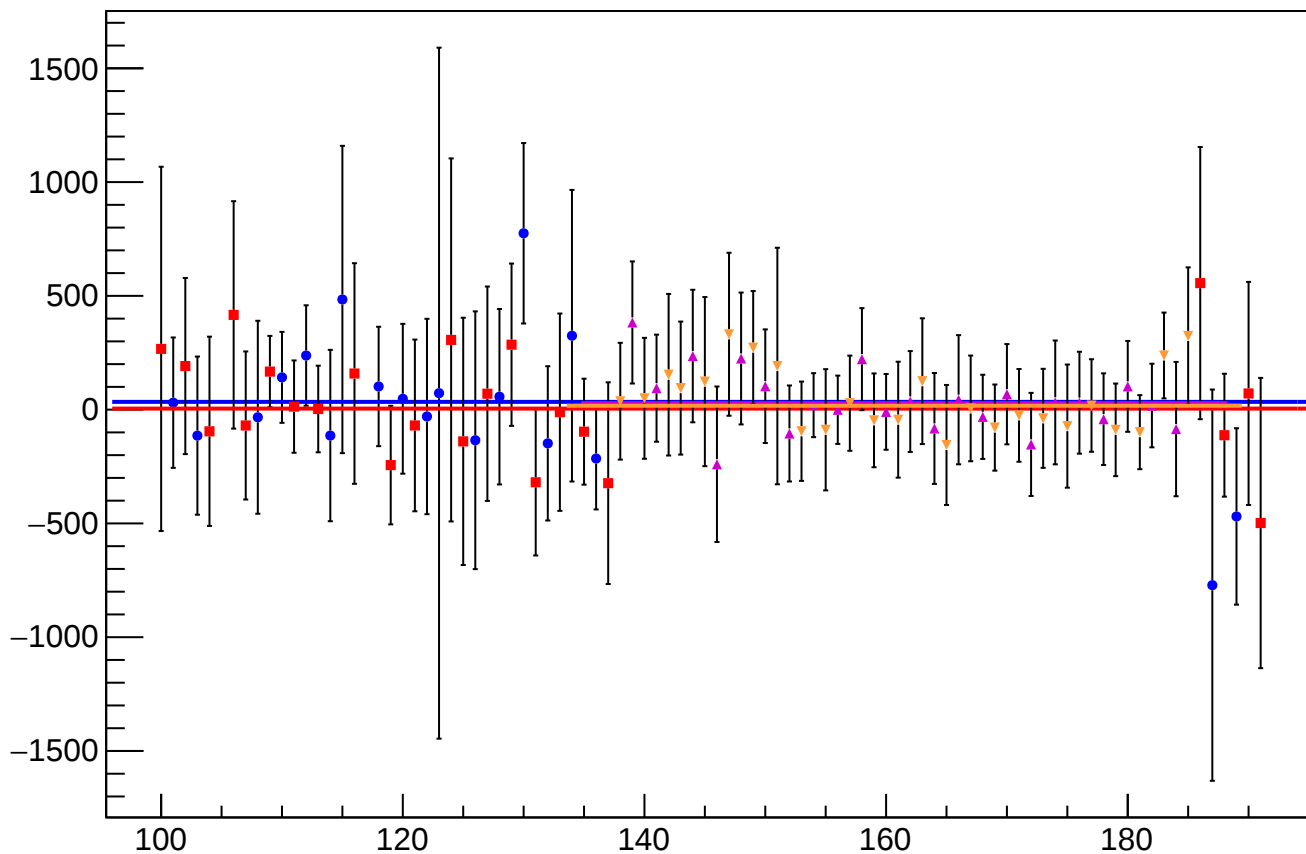
Right: 190.384 $\pm$ 0.036 χ^2/NDF : 3303032.8/41

In: 184.032 $\pm$ 0.028 χ^2/NDF : 2828855.8/41

Out: 193.281 $\pm$ 0.028 χ^2/NDF : 3965583.2/47

All: 188.659 $\pm$ 0.019 χ^2/NDF : 6850922.6/89

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 34.141 $\pm$ 77.670 χ^2 /NDF: 9.9/18

Left Out: 17.142 $\pm$ 47.738 χ^2 /NDF: 7.1/24

Right Out: 4.602 $\pm$ 66.658 χ^2 /NDF: 7.5/22

Left In: 28.655 $\pm$ 44.859 χ^2 /NDF: 6.1/22

Left: 23.256 $\pm$ 32.690 χ^2 /NDF: 13.2/47

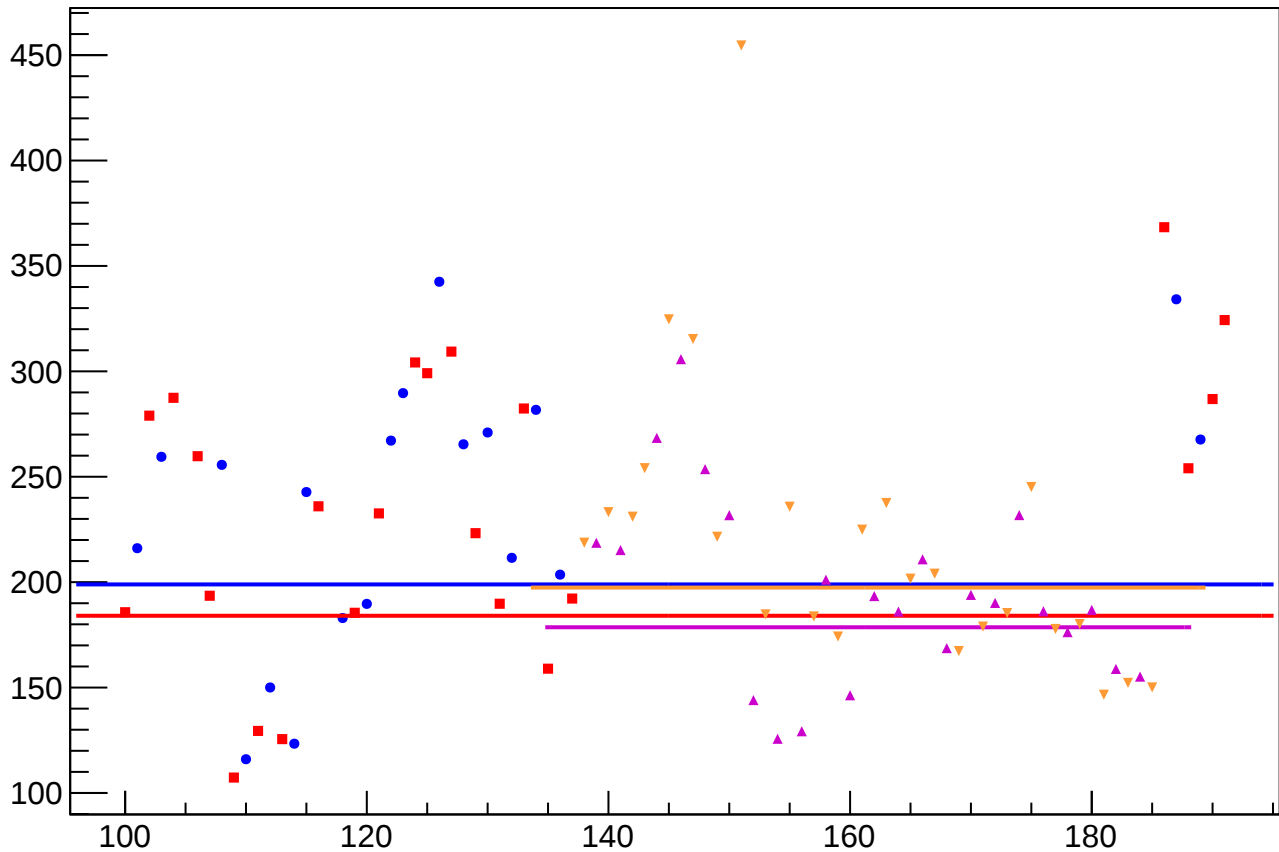
Right: 17.131 $\pm$ 50.583 χ^2 /NDF: 17.5/41

In: 30.028 $\pm$ 38.846 χ^2 /NDF: 16.1/41

Out: 12.891 $\pm$ 38.811 χ^2 /NDF: 14.6/47

All: 21.452 $\pm$ 27.456 χ^2 /NDF: 30.8/89

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 198.927+/-0.055 χ^2/NDF : 1105104.1/18

Left Out: 197.422+/-0.034 χ^2/NDF : 1780261.9/24

Right Out: 184.057+/-0.047 χ^2/NDF : 2098067.1/22

Left In: 178.601+/-0.032 χ^2/NDF : 1608998.1/22

Left: 187.427+/-0.023 χ^2/NDF : 3554344.1/47

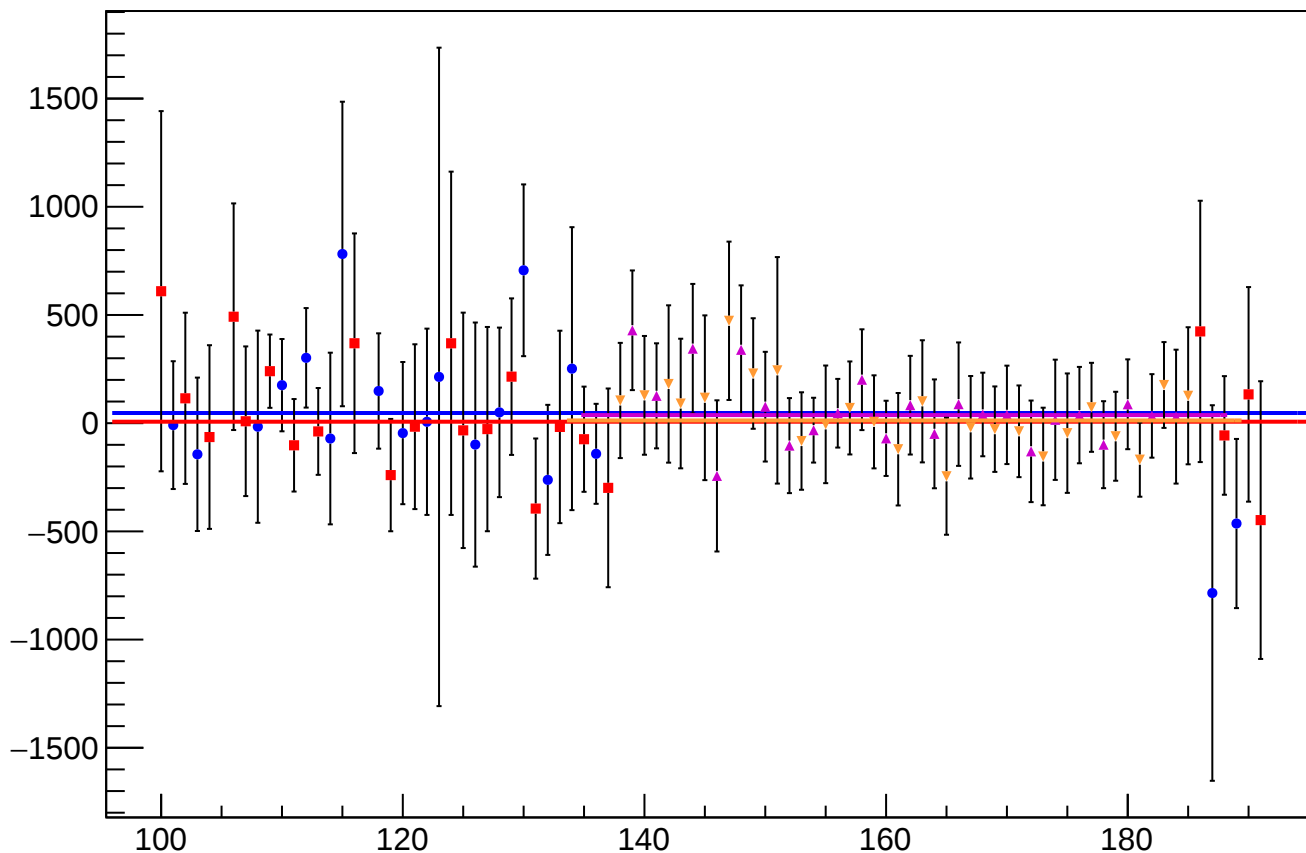
Right: 190.364+/-0.036 χ^2/NDF : 3245383.9/41

In: 183.686+/-0.027 χ^2/NDF : 2816810.4/41

Out: 192.891+/-0.027 χ^2/NDF : 3931467.2/47

All: 188.292+/-0.019 χ^2/NDF : 6804485.2/89

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 47.054+/-80.003 χ^2/NDF : 10.4/18

Left Out: 12.632+/-49.242 χ^2/NDF : 7.5/24

Right Out: 6.802+/-69.247 χ^2/NDF : 8.9/22

Left In: 37.460+/-46.479 χ^2/NDF : 7.6/22

Left: 25.762+/-33.800 χ^2/NDF : 15.3/47

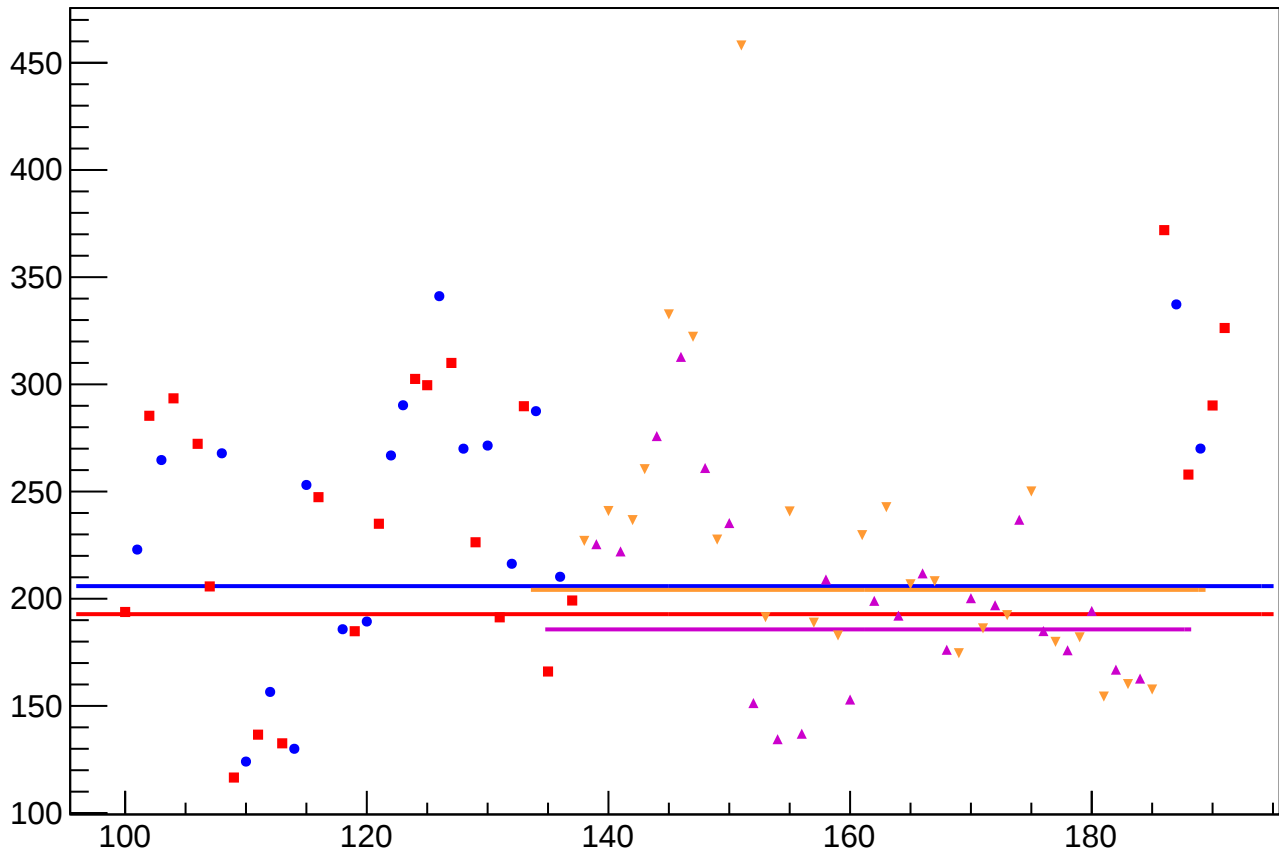
Right: 24.043+/-52.358 χ^2/NDF : 19.4/41

In: 39.881+/-40.189 χ^2/NDF : 18.0/41

Out: 10.674+/-40.130 χ^2/NDF : 16.4/47

All: 25.257+/-28.397 χ^2/NDF : 34.7/89

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 205.879 ± 0.057 $\chi^2/\text{NDF}: 988925.4/18$

Left Out: 204.132 ± 0.035 $\chi^2/\text{NDF}: 1672287.6/24$

Right Out: 192.801 ± 0.049 $\chi^2/\text{NDF}: 1872444.0/22$

Left In: 185.694 ± 0.033 $\chi^2/\text{NDF}: 1447767.0/22$

Left: 194.381 ± 0.024 $\chi^2/\text{NDF}: 3268347.9/47$

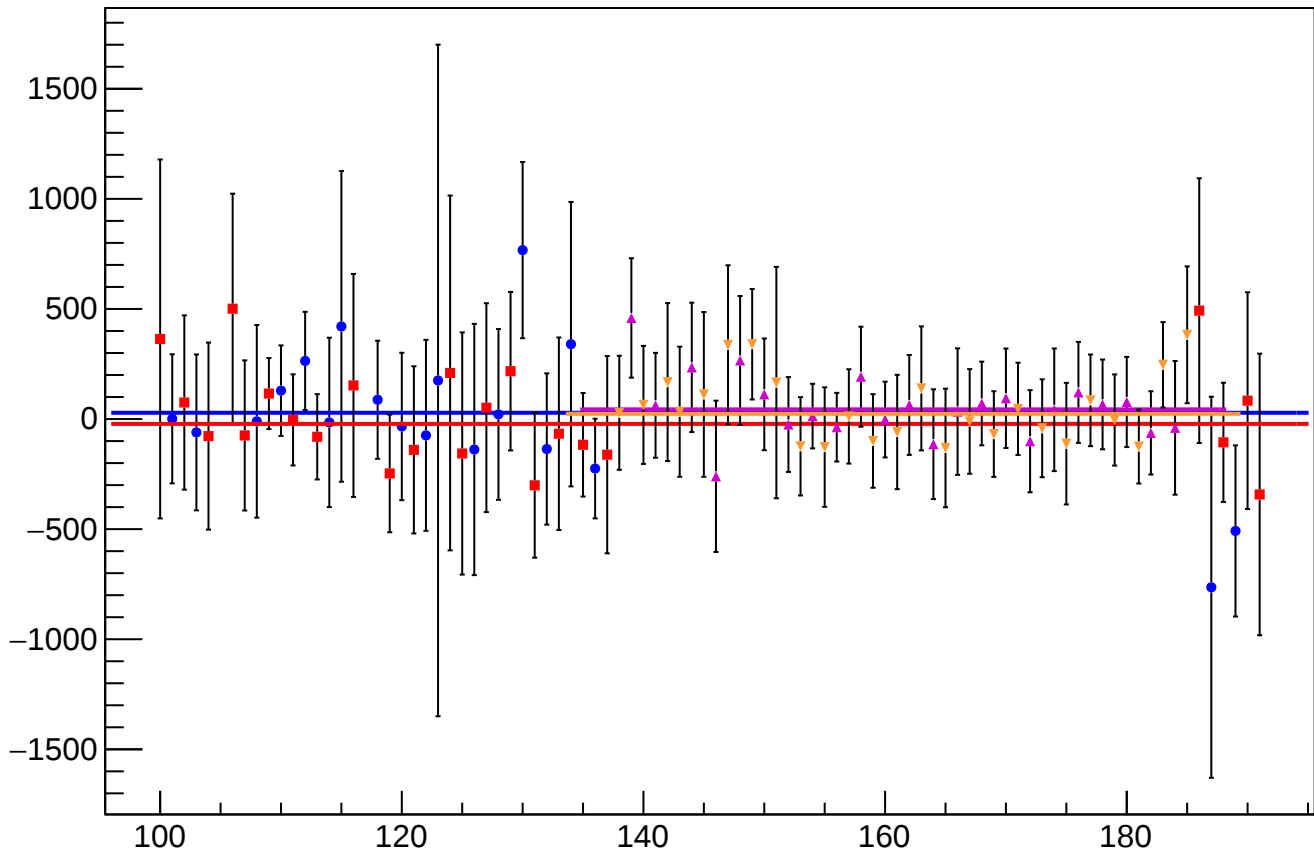
Right: 198.403 ± 0.037 $\chi^2/\text{NDF}: 2891922.7/41$

In: 190.787 ± 0.028 $\chi^2/\text{NDF}: 2531885.6/41$

Out: 200.327 ± 0.028 $\chi^2/\text{NDF}: 3580293.6/47$

All: 195.564 ± 0.020 $\chi^2/\text{NDF}: 6168600.5/89$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 28.541 $\pm$ 78.999 χ^2 /NDF: 9.9/18

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

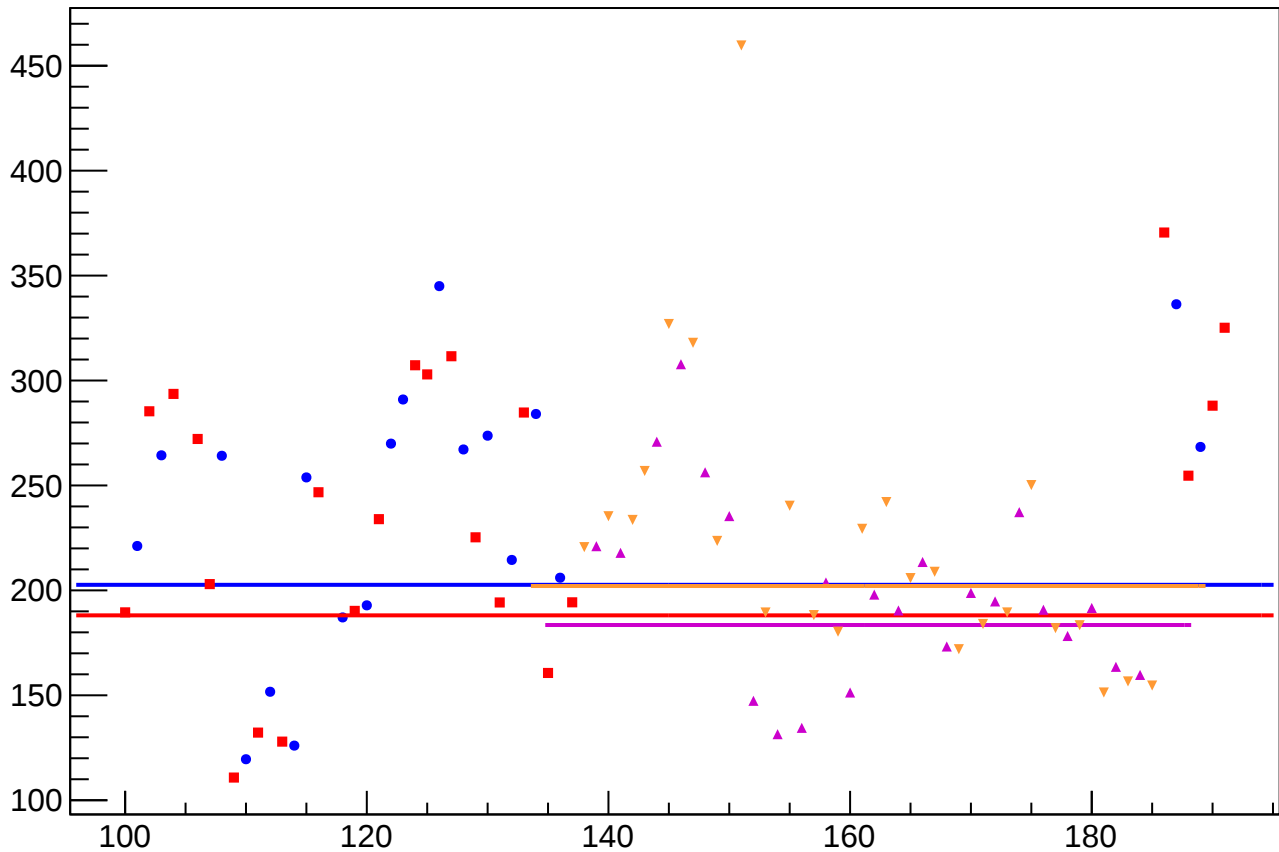
Right: -0.458 $\pm$ 51.518 χ^2 /NDF: 15.9/41

In: 40.072 $\pm$ 39.739 χ^2 /NDF:16.4/41

Out: 8.281 $\pm$ 39.629 χ^2 /NDF:14.6/47

All: 24.133 $\pm$ 28.061 χ^2 /NDF: 31.3/89

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 202.645 ± 0.056 $\chi^2/\text{NDF}: 1074955.2/18$

Left Out: 202.081 ± 0.034 $\chi^2/\text{NDF}: 1692787.9/24$

Right Out: 188.096 ± 0.048 $\chi^2/\text{NDF}: 2047031.7/22$

Left In: 183.498 ± 0.033 $\chi^2/\text{NDF}: 1483383.4/22$

Left: 192.240 ± 0.024 $\chi^2/\text{NDF}: 3329846.6/47$

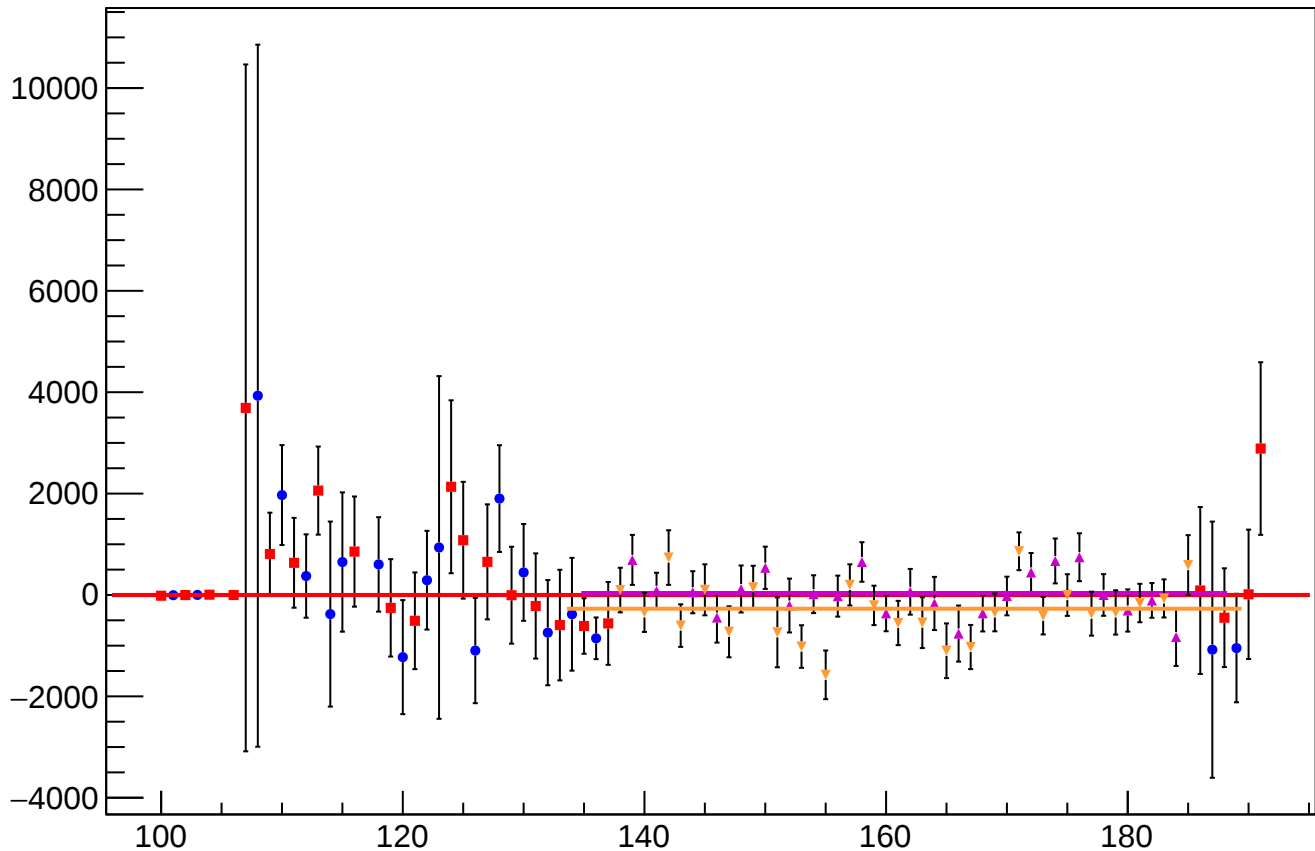
Right: 194.284 ± 0.036 $\chi^2/\text{NDF}: 3160970.1/41$

In: 188.343 ± 0.028 $\chi^2/\text{NDF}: 2646094.5/41$

Out: 197.325 ± 0.028 $\chi^2/\text{NDF}: 3795708.9/47$

All: 192.847 ± 0.020 $\chi^2/\text{NDF}: 6493029.6/89$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.535 ± 2.251 χ^2/NDF : 18.6/18

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

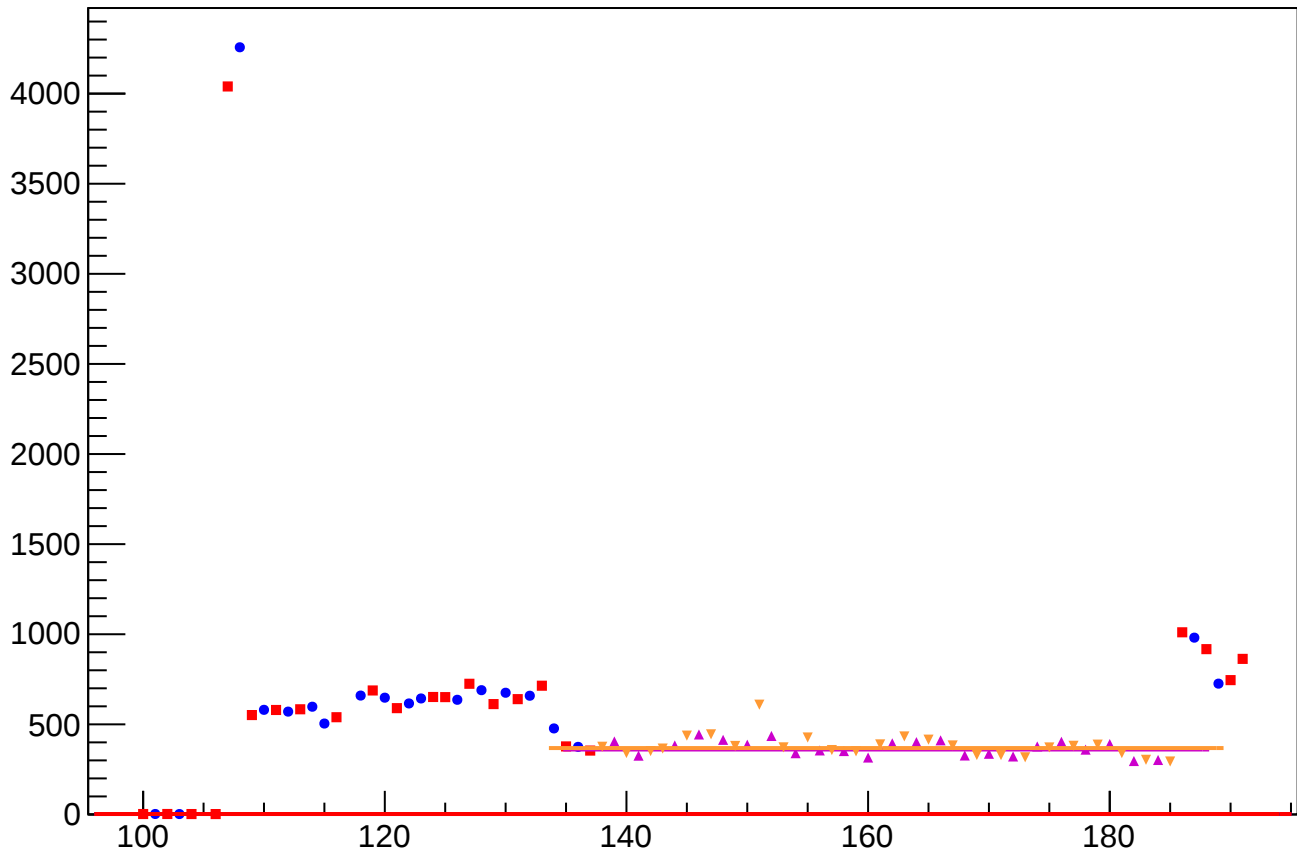
Right: -0.331 ± 1.540 χ^2/NDF : 41.3/41

In: -1.508 ± 2.251 χ^2/NDF : 39.0/41

Out: 0.568 ± 2.110 χ^2/NDF : 70.1/47

All: -0.403 ± 1.540 χ^2/NDF : 109.6/89

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.460+/-0.002 χ^2/NDF : 12022446.5/18

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

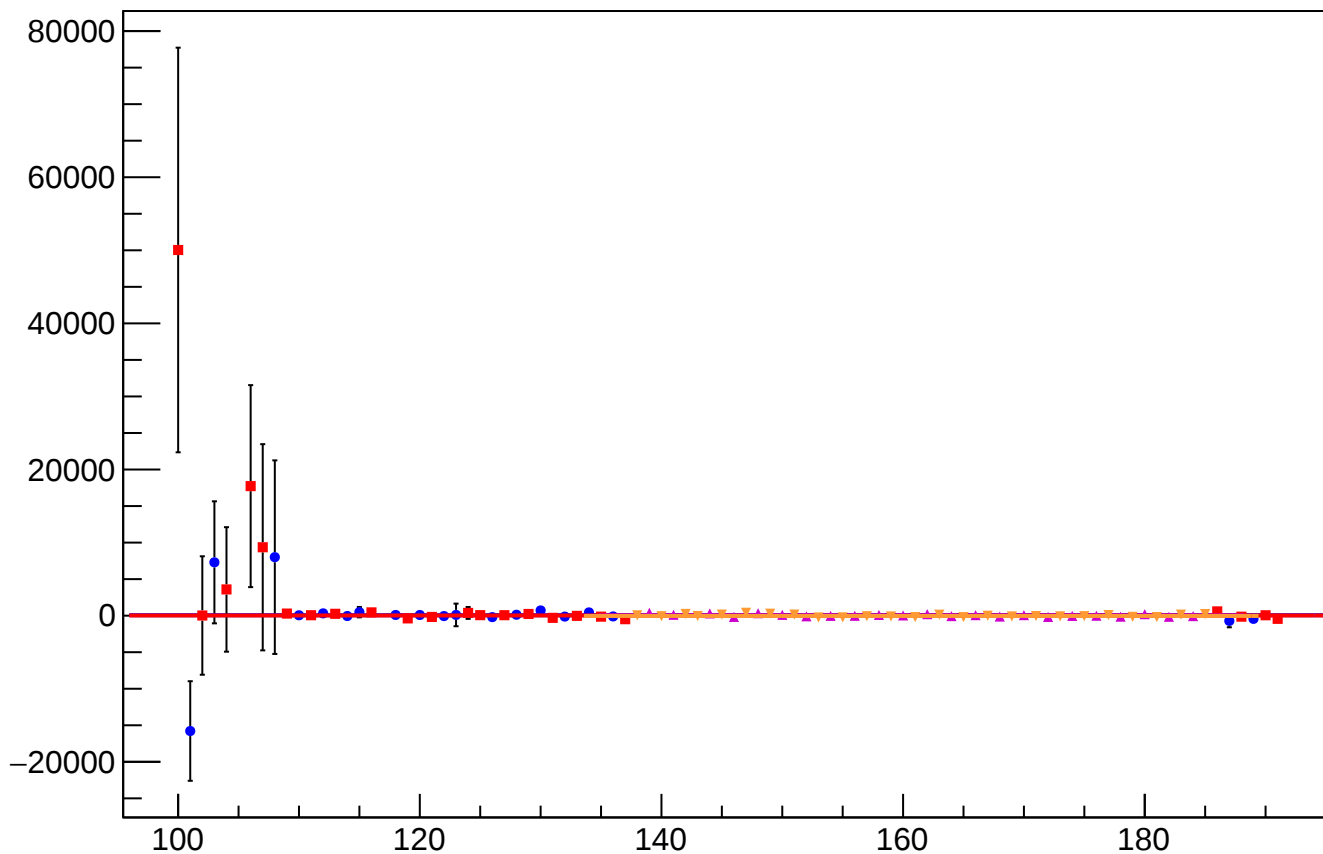
Right: 2.453+/-0.001 χ^2/NDF : 26826285.2/41

In: 2.696+/-0.002 χ^2/NDF : 45682932.2/41

Out: 2.661+/-0.001 χ^2/NDF : 50818519.2/47

All: 2.677+/-0.001 χ^2/NDF : 96501699.7/89

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 65.498 $\pm$ 88.363 χ^2 /NDF: 14.6/18

Left Out: -38.013 $\pm$ 49.628 χ^2 /NDF: 9.3/24

Right Out: 26.495 $\pm$ 78.552 χ^2 /NDF: 15.8/22

Left In: 28.205 $\pm$ 48.167 χ^2 /NDF: 9.2/22

Left: -3.915 $\pm$ 34.564 χ^2 /NDF: 19.4/47

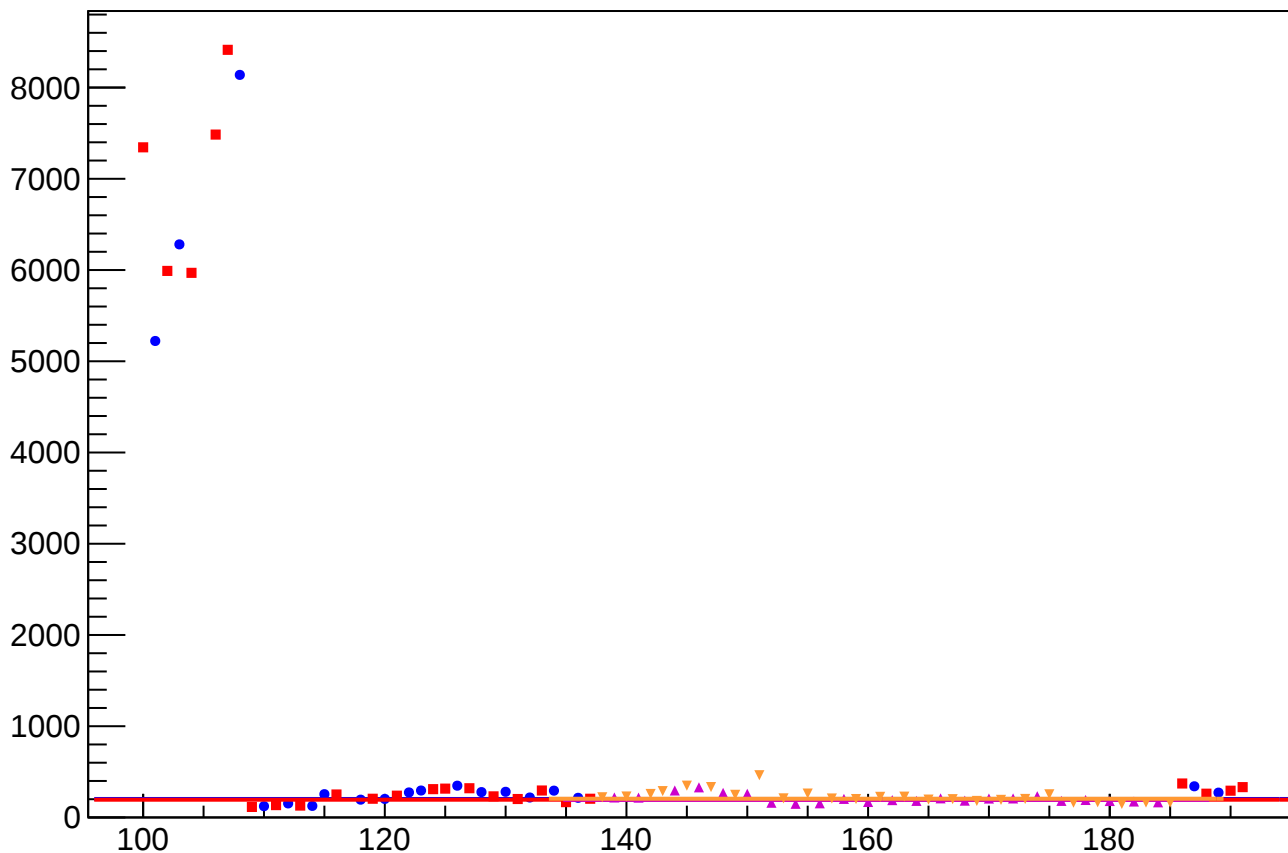
Right: 43.712 $\pm$ 58.708 χ^2 /NDF: 30.4/41

In: 36.747 $\pm$ 42.292 χ^2 /NDF: 23.9/41

Out: -19.610 $\pm$ 41.956 χ^2 /NDF: 25.5/47

All: 8.344 $\pm$ 29.785 χ^2 /NDF: 50.3/89

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 202.531+/-0.062 χ^2/NDF : 3815342.9/18

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 194.492+/-0.056 χ^2/NDF : 4829890.1/22

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

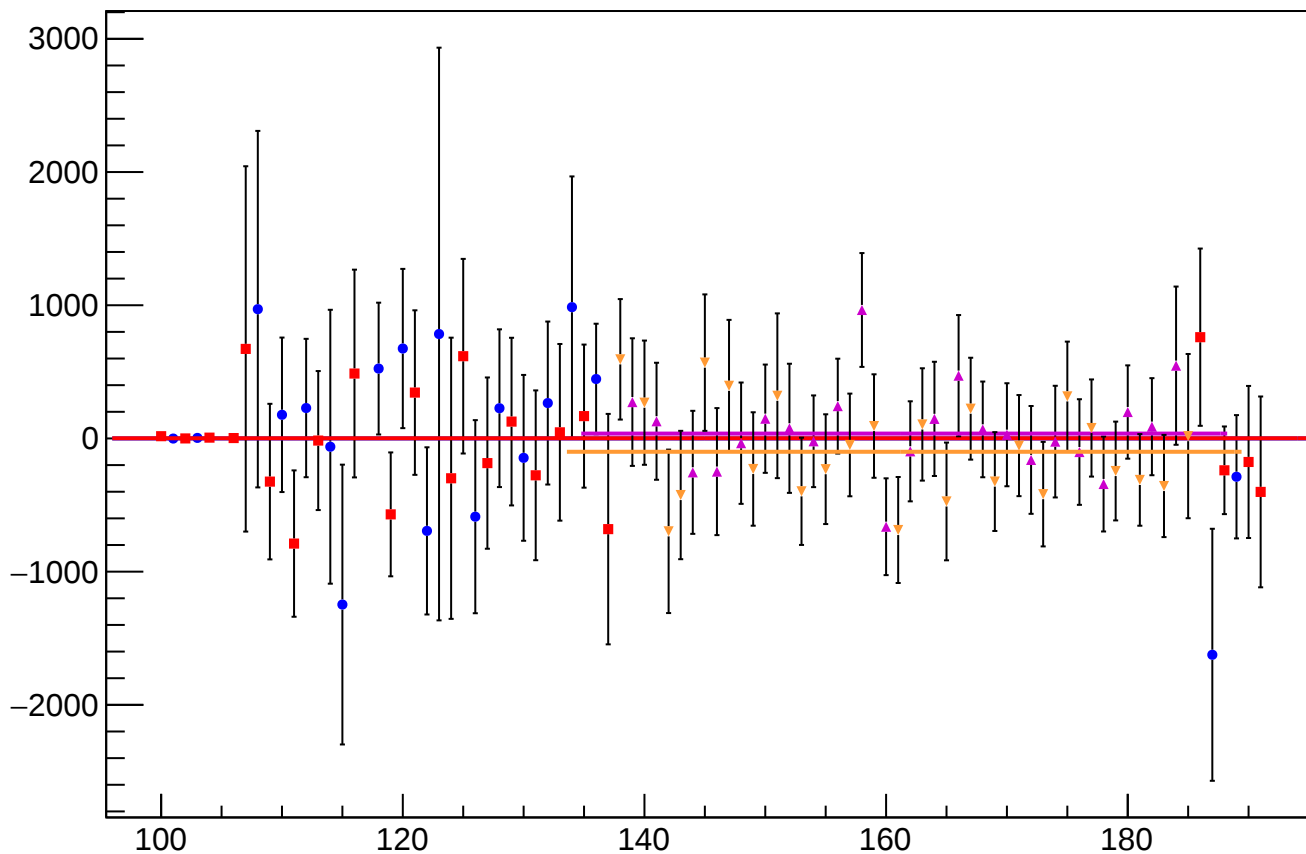
Right: 198.041+/-0.042 χ^2/NDF : 8654477.7/41

In: 195.495+/-0.030 χ^2/NDF :5003957.6/41

Out: 202.022+/-0.030 χ^2/NDF :6811644.1/47

All: 198.784+/-0.021 χ^2/NDF : 11839605.4/89

asym_cav4dQ_mean vs Slug, Sign Corrected



Left: -32.173 ± 59.702 $\chi^2/\text{NDF}: 30.5/47$

Right: 0.634 ± 1.186 $\chi^2/\text{NDF}: 25.4/41$

In: -0.134 ± 1.736 $\chi^2/\text{NDF}: 27.1/41$

Out: 1.280 ± 1.622 $\chi^2/\text{NDF}: 28.8/47$

All: 0.621 ± 1.185 $\chi^2/\text{NDF}: 56.2/89$

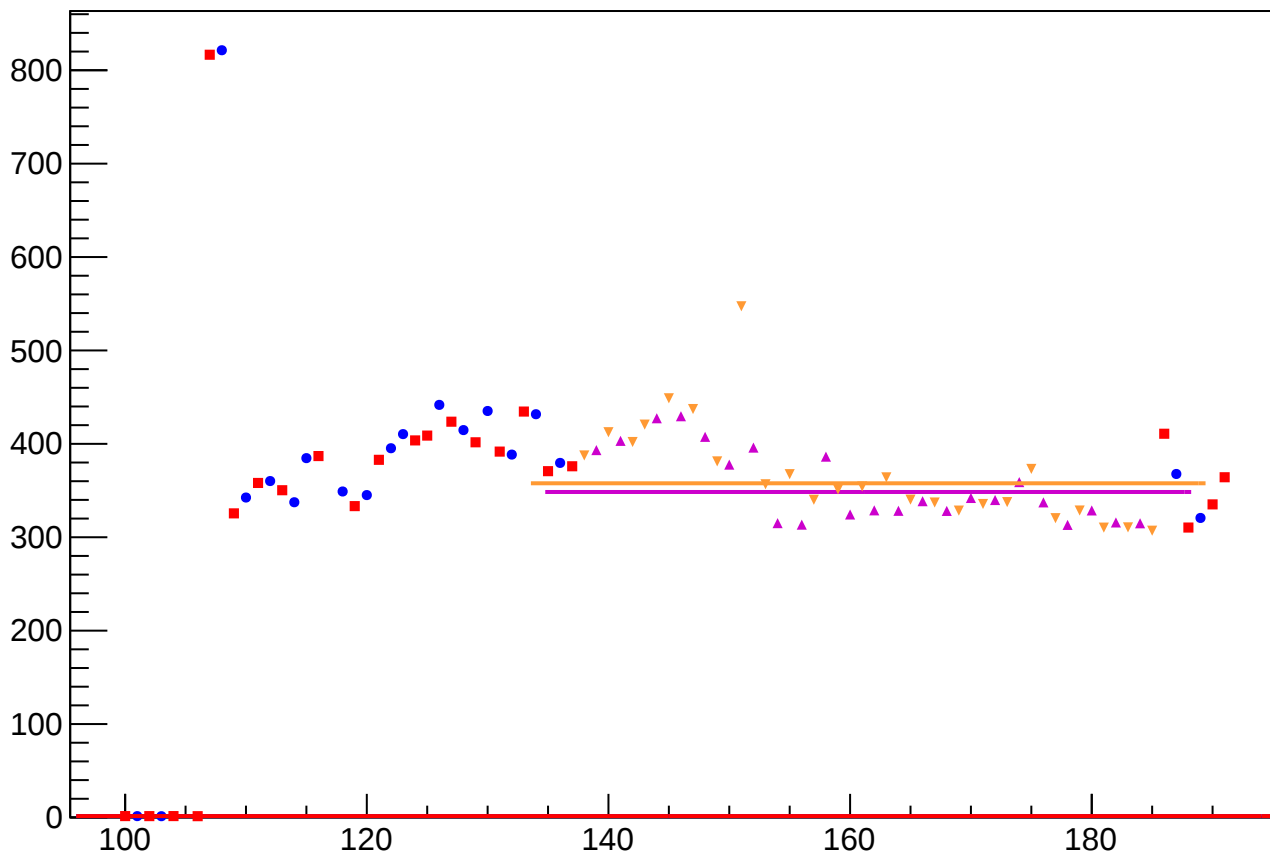
Right In: -0.149 ± 1.737 $\chi^2/\text{NDF}: 13.4/18$

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 $\chi^2/\text{NDF}: 13.5/22$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.458 $\pm$ 0.001 χ^2 /NDF: 12165964.3/18

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

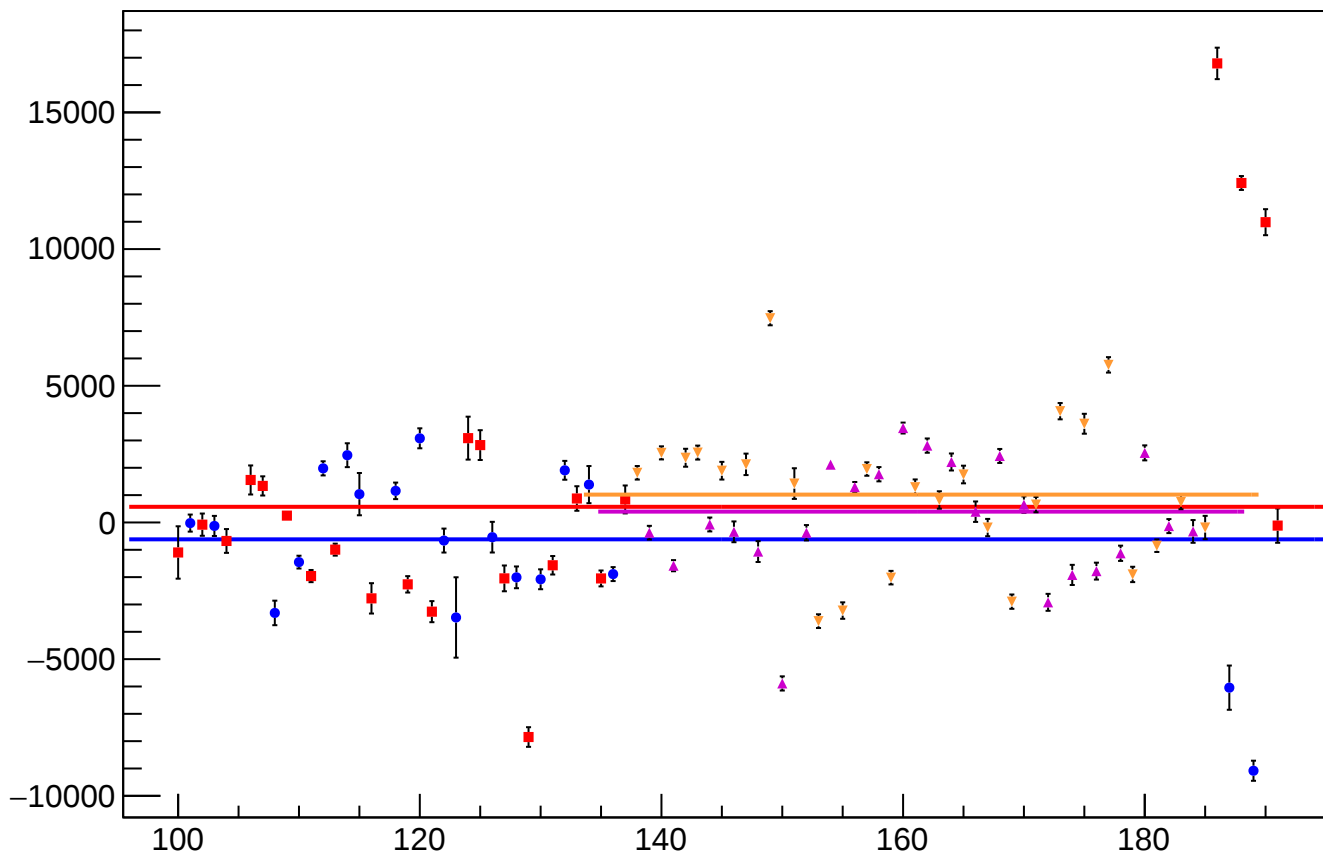
Right: 1.462 $\pm$ 0.001 χ^2 /NDF: 26721945.1/41

In: 1.604 $\pm$ 0.001 χ^2 /NDF: 46100716.2/41

Out: 1.598 $\pm$ 0.001 χ^2 /NDF: 50912379.3/47

All: 1.601 $\pm$ 0.001 χ^2 /NDF: 97013110.6/89

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -617.514 ± 84.895 $\chi^2/\text{NDF}: 1039.8/18$

Left Out: 1018.965 ± 57.402 $\chi^2/\text{NDF}: 2310.1/24$

Right Out: 572.508 ± 72.931 $\chi^2/\text{NDF}: 4608.9/22$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 695.002 ± 39.747 $\chi^2/\text{NDF}: 3952.3/47$

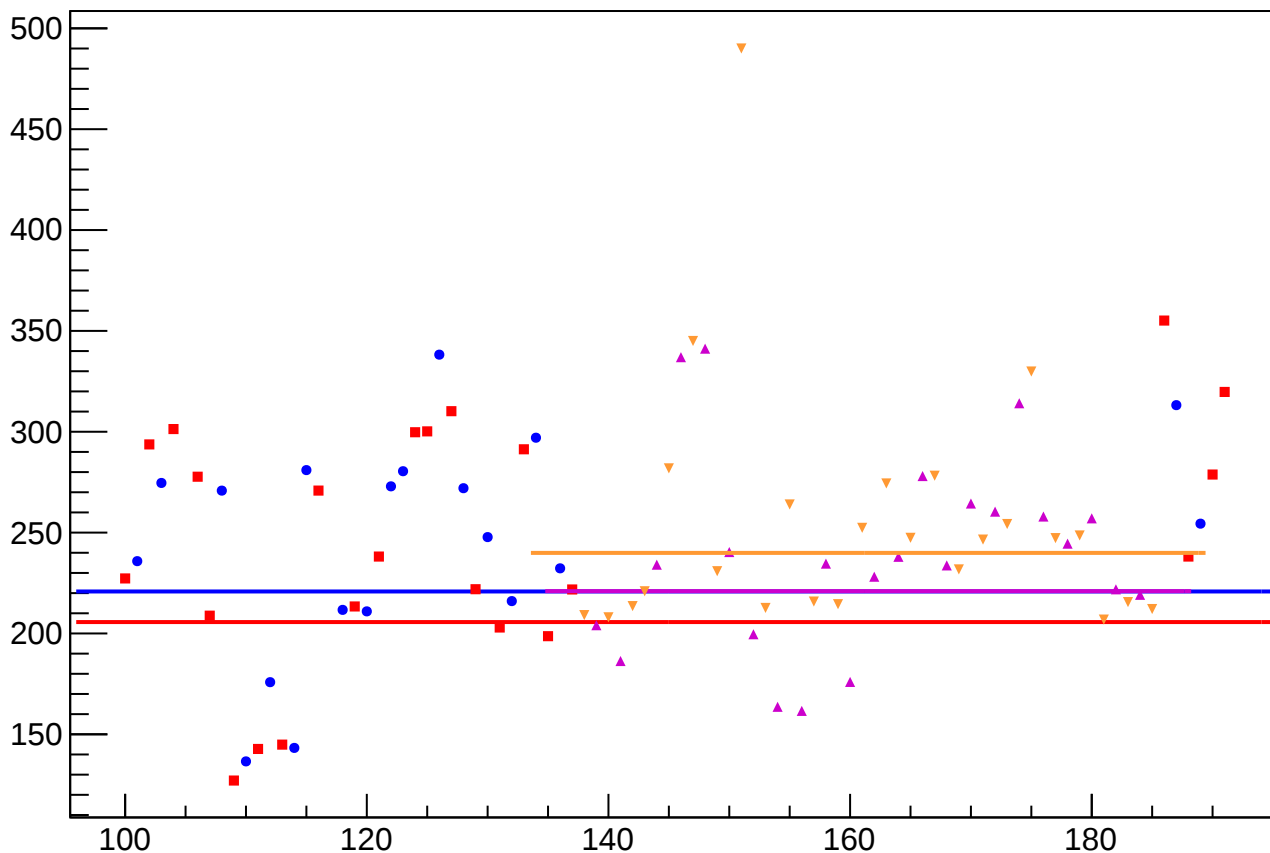
Right: 67.191 ± 55.321 $\chi^2/\text{NDF}: 5761.8/41$

In: 96.108 ± 46.213 $\chi^2/\text{NDF}: 2721.3/41$

Out: 848.188 ± 45.107 $\chi^2/\text{NDF}: 6942.2/47$

All: 481.257 ± 32.279 $\chi^2/\text{NDF}: 9799.1/89$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 220.816 ± 0.060 $\chi^2/\text{NDF}: 706170.2/18$

Left Out: 239.942 ± 0.041 $\chi^2/\text{NDF}: 1000770.0/24$

Right Out: 205.648 ± 0.052 $\chi^2/\text{NDF}: 1499943.1/22$

Left In: 220.972 ± 0.039 $\chi^2/\text{NDF}: 1327680.6/22$

Left: 230.067 ± 0.028 $\chi^2/\text{NDF}: 2442154.9/47$

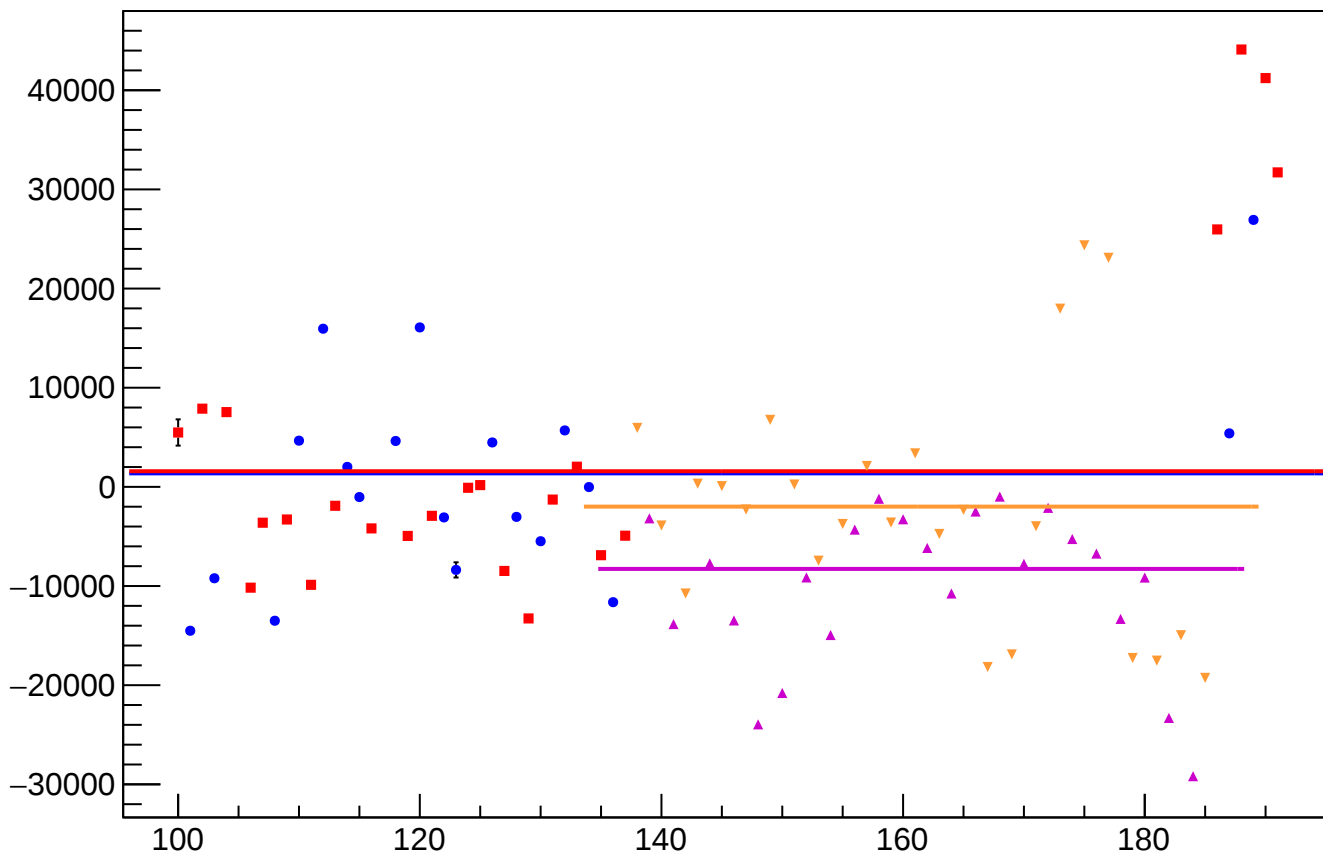
Right: 212.089 ± 0.039 $\chi^2/\text{NDF}: 2242844.3/41$

In: 220.925 ± 0.033 $\chi^2/\text{NDF}: 2033855.5/41$

Out: 226.824 ± 0.032 $\chi^2/\text{NDF}: 2773769.9/47$

All: 223.946 ± 0.023 $\chi^2/\text{NDF}: 4824311.9/89$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 1363.967 ± 53.358 $\chi^2/\text{NDF}: 40765.8/18$

Left Out: -1991.788 ± 42.427 $\chi^2/\text{NDF}: 63766.6/24$

Right Out: 1576.008 ± 48.538 $\chi^2/\text{NDF}: 105266.5/22$

Left In: -8273.228 ± 44.301 $\chi^2/\text{NDF}: 22870.2/22$

Left: -4996.810 ± 30.641 $\chi^2/\text{NDF}: 97123.2/47$

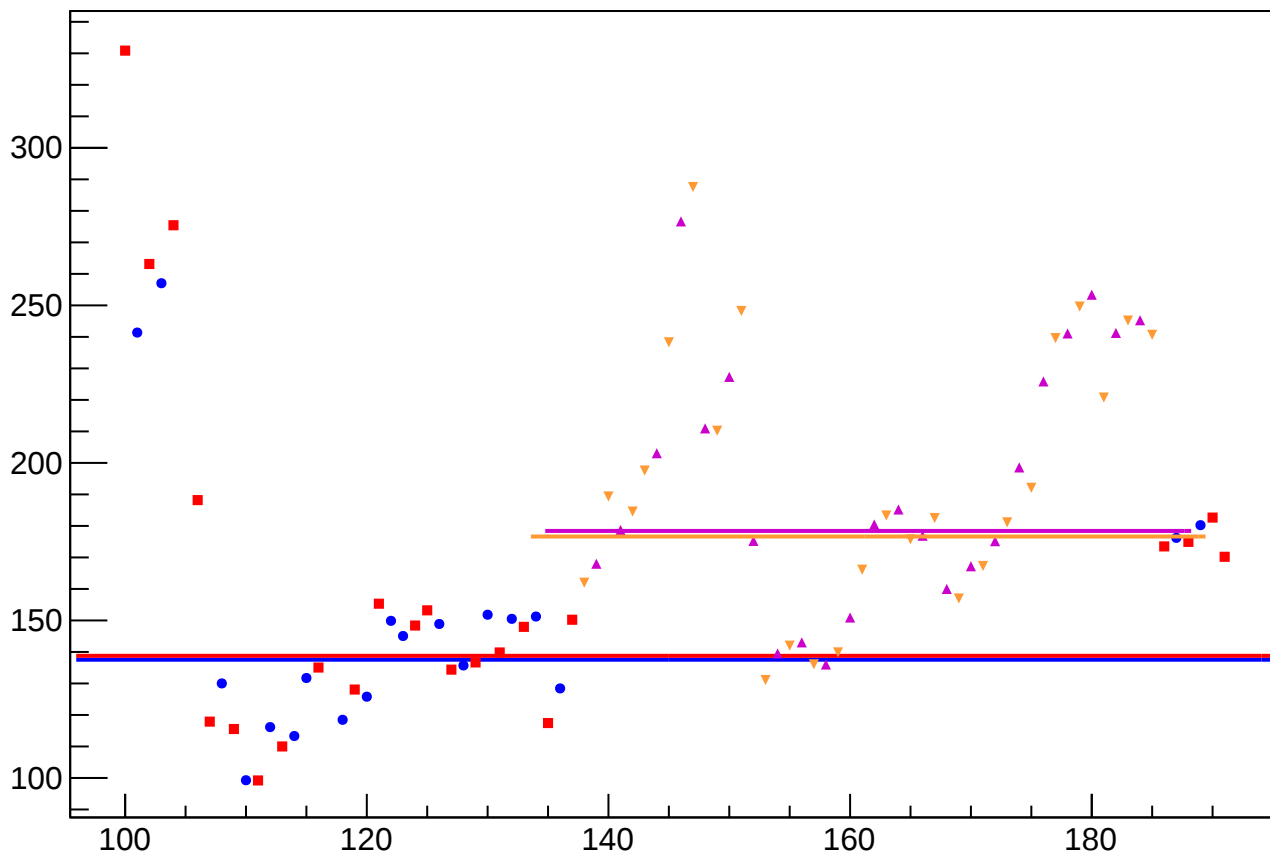
Right: 1479.994 ± 35.905 $\chi^2/\text{NDF}: 146040.9/41$

In: -4340.735 ± 34.084 $\chi^2/\text{NDF}: 82946.2/41$

Out: -446.521 ± 31.944 $\chi^2/\text{NDF}: 172095.9/47$

All: -2267.510 ± 23.308 $\chi^2/\text{NDF}: 261991.6/8$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 137.539+/-0.038 χ^2/NDF : 729283.6/18

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

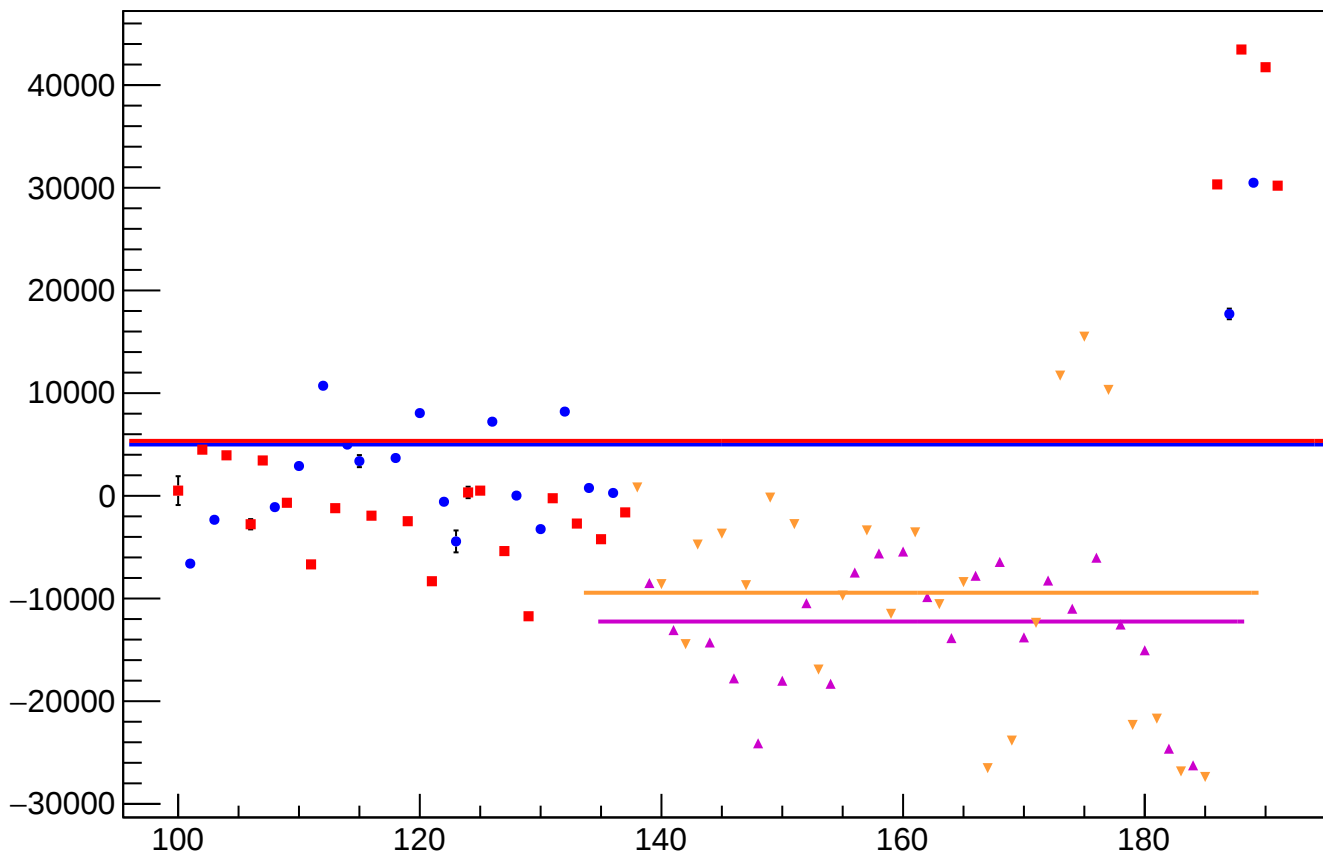
Right: 138.214+/-0.025 χ^2/NDF : 1748783.2/41

In: 161.734+/-0.024 χ^2/NDF :2717753.8/41

Out: 160.239+/-0.023 χ^2/NDF :3260075.1/47

All: 160.938+/-0.016 χ^2/NDF : 5979877.9/89

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 5000.320+/-67.782 χ^2/NDF : 15402.1/18

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

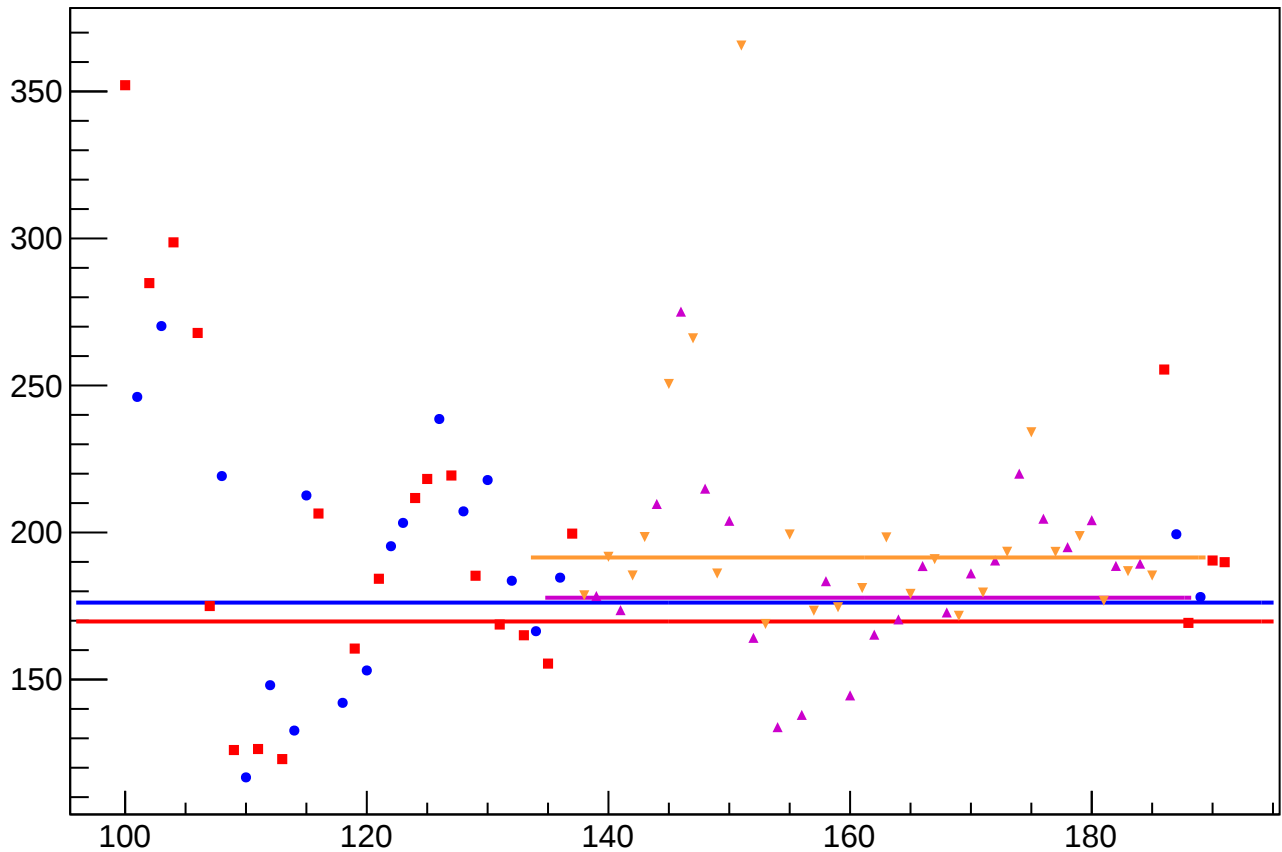
Right: 5199.175+/-44.599 χ^2/NDF : 99095.4/41

In: -7139.638+/-36.873 χ^2/NDF : 77577.9/41

Out: -3943.354+/-36.098 χ^2/NDF : 185085.0/47

All: -5507.558+/-25.795 χ^2/NDF : 266499.6/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.161+/-0.048 χ^2/NDF : 692130.0/18

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

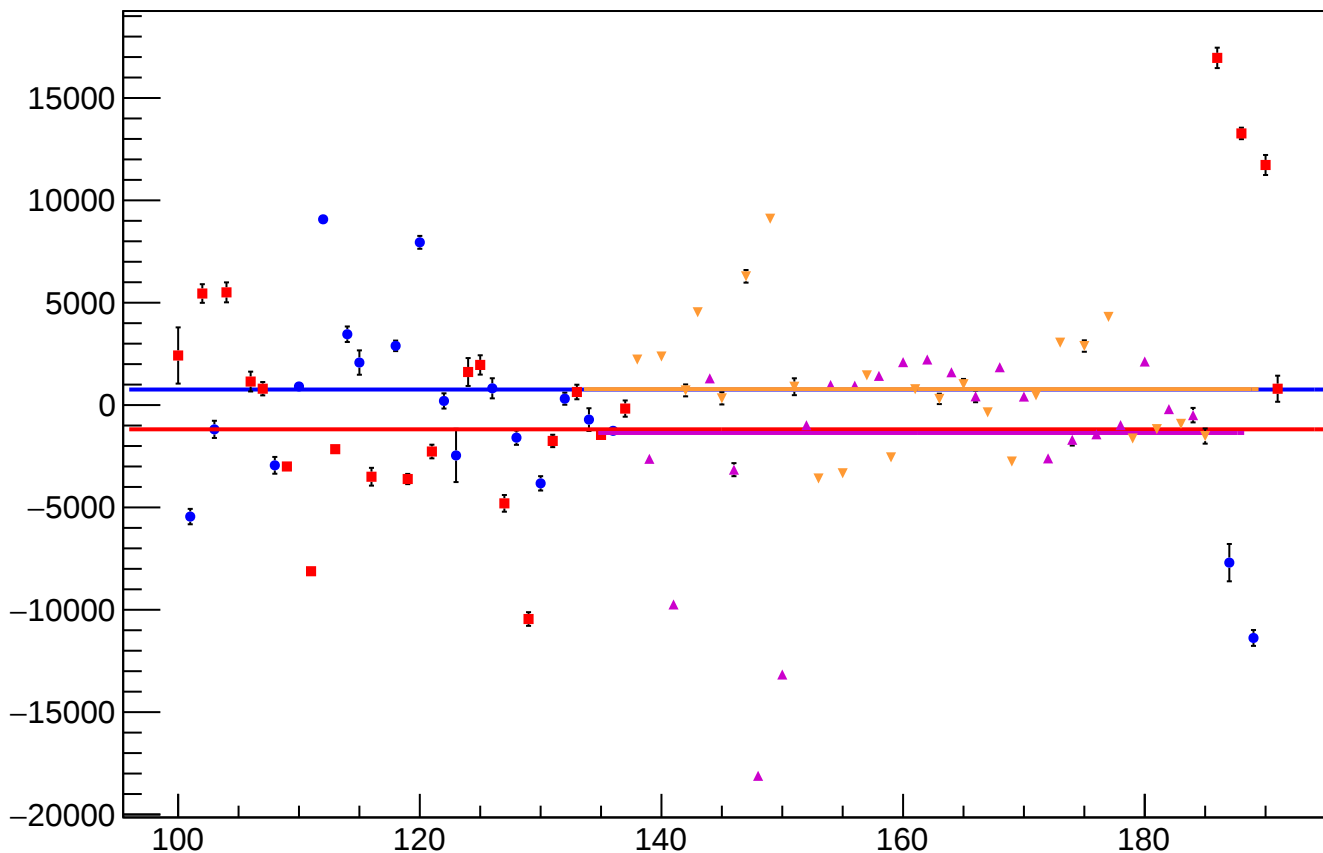
Right: 172.519+/-0.032 χ^2/NDF : 1733205.7/41

In: 177.330+/-0.026 χ^2/NDF : 1555469.9/41

Out: 183.420+/-0.026 χ^2/NDF : 1927944.8/47

All: 180.440+/-0.018 χ^2/NDF : 3511272.9/89

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 759.226+/-75.568 χ^2/NDF : 3765.5/18

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

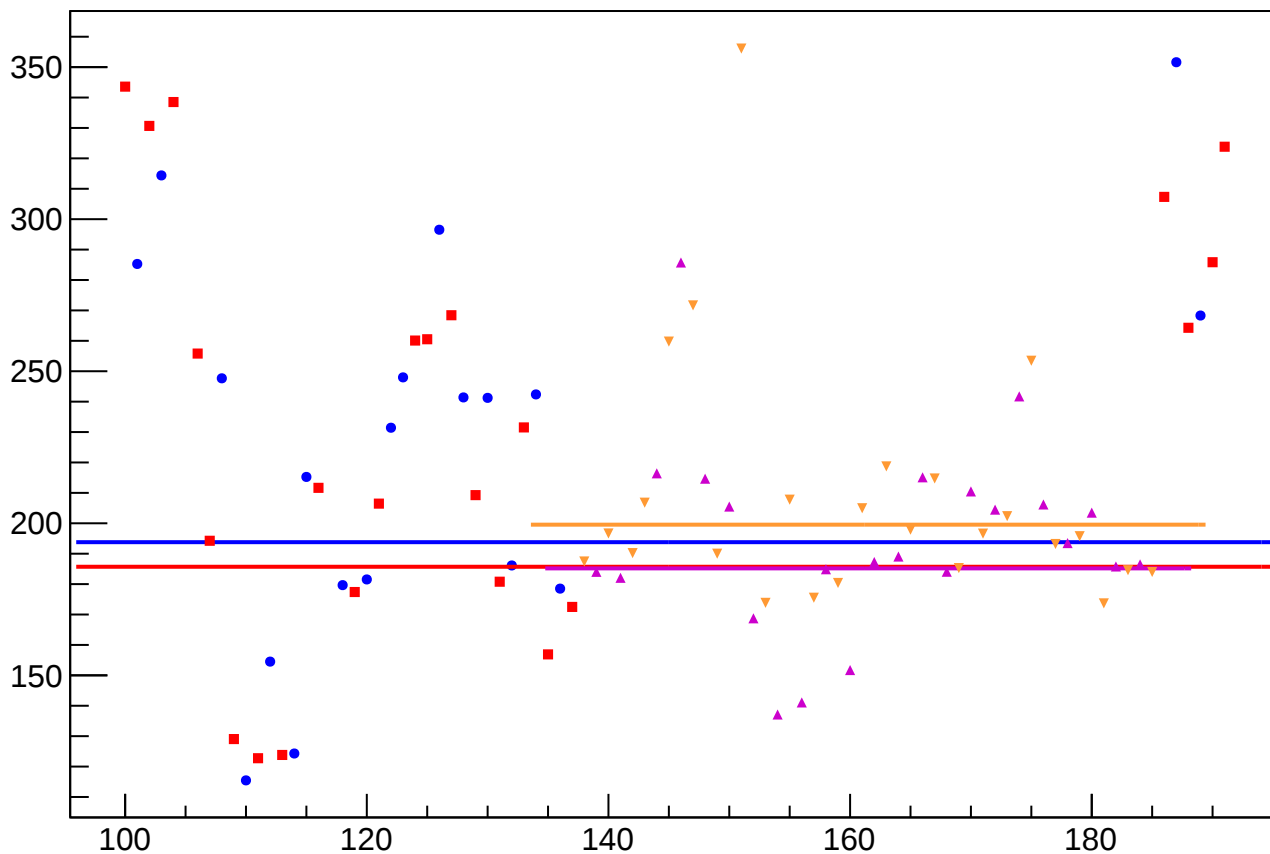
Right: -339.012+/-49.846 χ^2/NDF : 11802.7/41

In: -792.784+/-39.172 χ^2/NDF : 15975.2/41

Out: 114.582+/-38.594 χ^2/NDF : 12504.6/47

All: -332.357+/-27.492 χ^2/NDF : 28752.0/89

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.788 ± 0.053 $\chi^2/\text{NDF}: 1116703.6/18$

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 $\chi^2/\text{NDF}: 1707122.0/47$

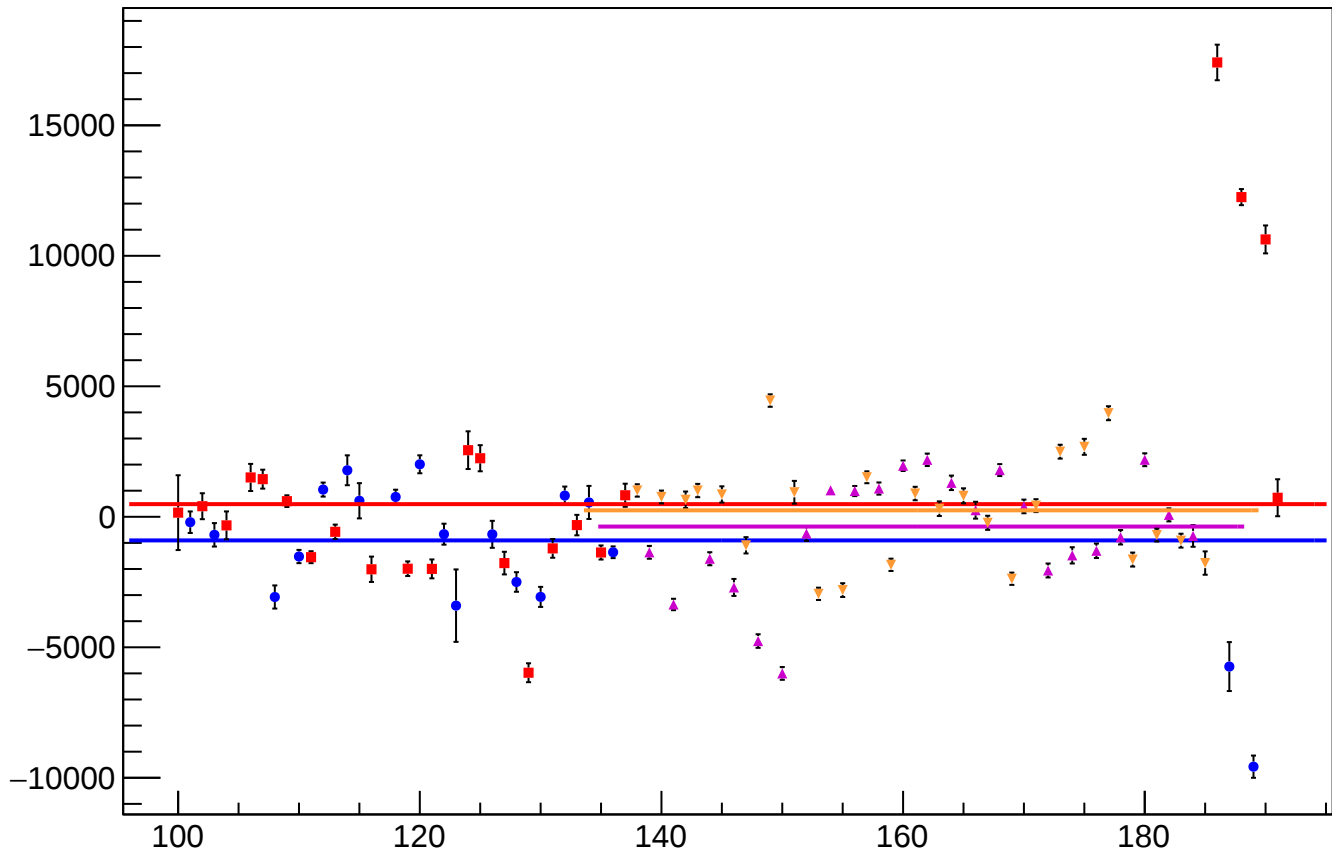
Right: 189.223 ± 0.035 $\chi^2/\text{NDF}: 2923424.3/41$

In: 187.486 ± 0.028 $\chi^2/\text{NDF}: 2018474.8/41$

Out: 194.860 ± 0.027 $\chi^2/\text{NDF}: 2580762.2/47$

All: 191.228 ± 0.019 $\chi^2/\text{NDF}: 4635197.5/89$

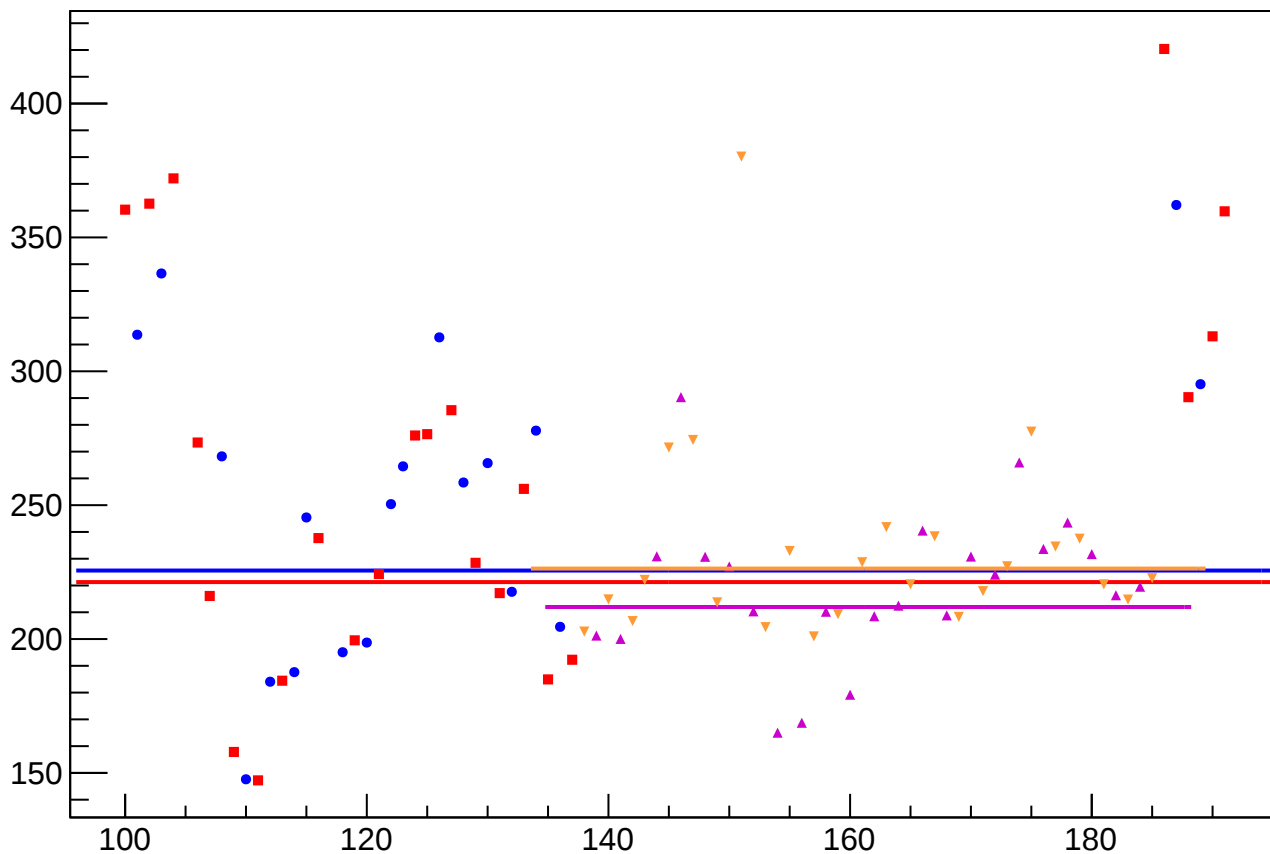
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -904.794 ± 86.550 $\chi^2/\text{NDF}: 748.2/18$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 485.106 ± 77.607 $\chi^2/\text{NDF}: 3129.5/22$
 Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$
 Right: -134.345 ± 57.780 $\chi^2/\text{NDF}: 4020.6/41$
 In: -515.066 ± 44.605 $\chi^2/\text{NDF}: 2576.8/41$
 Out: 324.382 ± 44.078 $\chi^2/\text{NDF}: 4490.9/47$
 All: -90.361 ± 31.353 $\chi^2/\text{NDF}: 7246.9/89$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 225.585 ± 0.061 $\chi^2/\text{NDF}: 745846.6/18$

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 $\chi^2/\text{NDF}: 1179246.7/47$

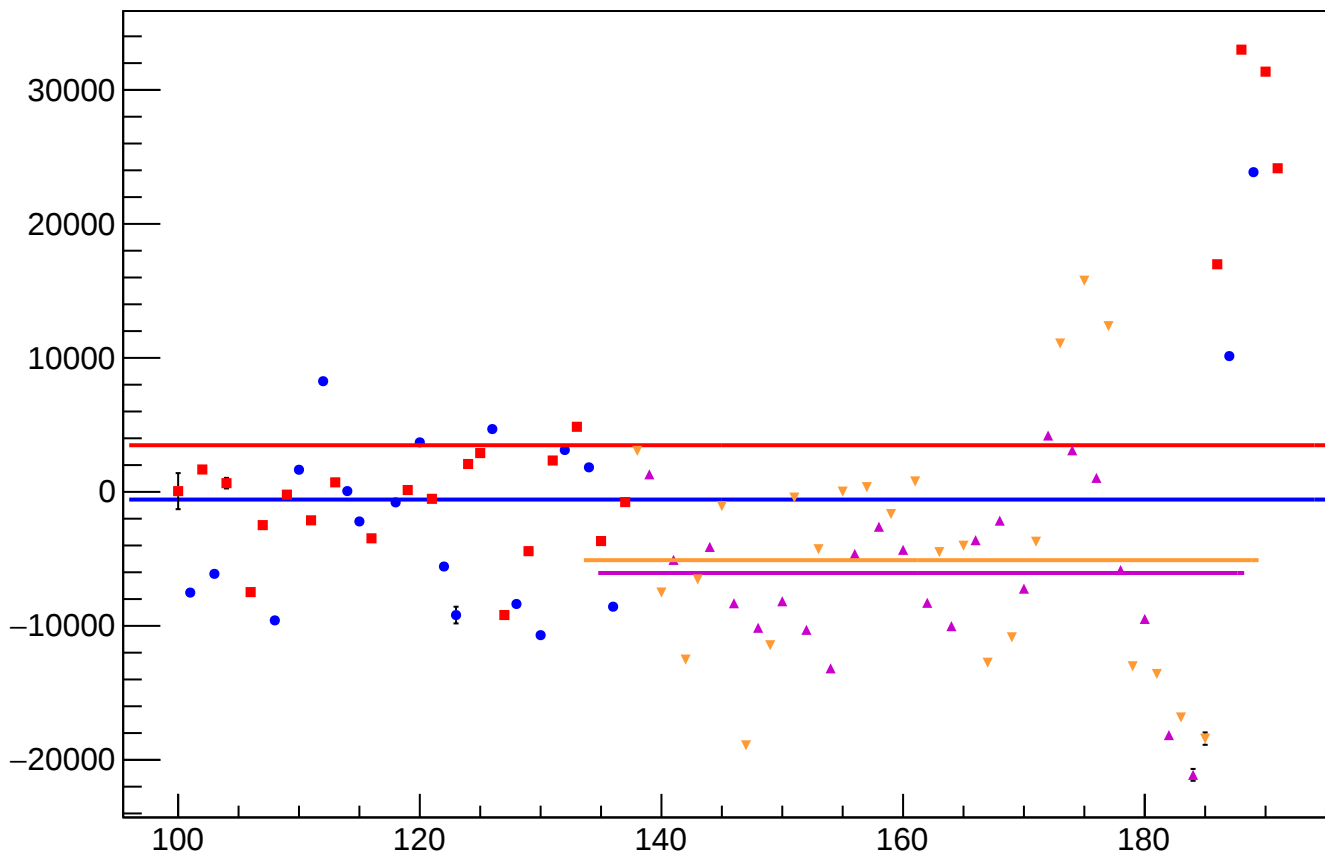
Right: 223.194 ± 0.041 $\chi^2/\text{NDF}: 2075758.2/41$

In: 215.586 ± 0.032 $\chi^2/\text{NDF}: 1366537.0/41$

Out: 224.693 ± 0.031 $\chi^2/\text{NDF}: 1853936.5/47$

All: 220.194 ± 0.022 $\chi^2/\text{NDF}: 3262649.9/89$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -573.110 $\pm$ 45.816 χ^2/NDF : 32640.7/18

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

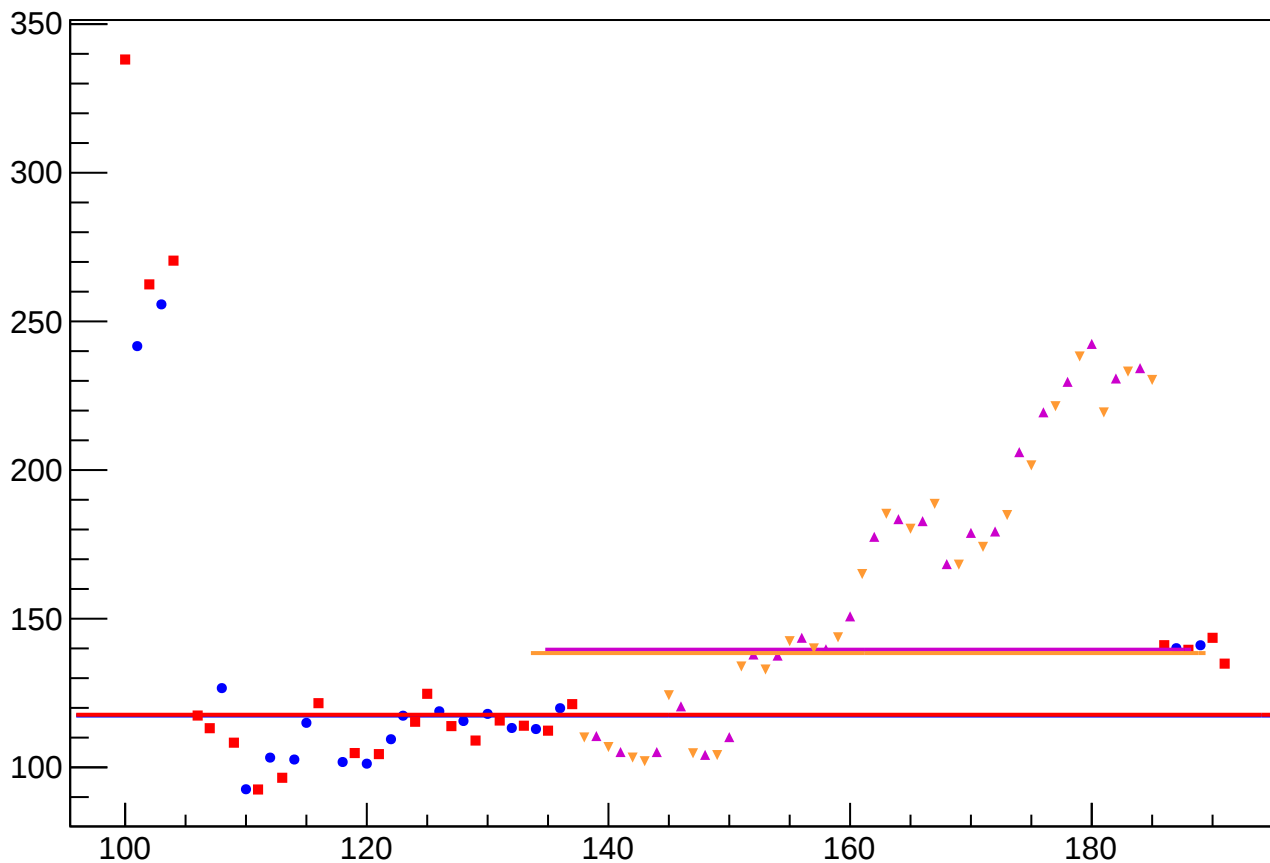
Right: 1669.706 $\pm$ 30.626 χ^2/NDF : 116458.0/41

In: -4034.078 $\pm$ 27.812 χ^2/NDF : 59266.8/41

Out: -1654.592 $\pm$ 26.081 χ^2/NDF : 159859.4/47

All: -2767.984 $\pm$ 19.025 χ^2/NDF : 223021.1/8

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 117.422 $\pm$ 0.032 χ^2 /NDF: 780564.1/18

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 117.693 $\pm$ 0.029 χ^2 /NDF: 908504.4/22

Left In: 139.578 $\pm$ 0.025 χ^2 /NDF: 2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2 /NDF: 4964199.7/47

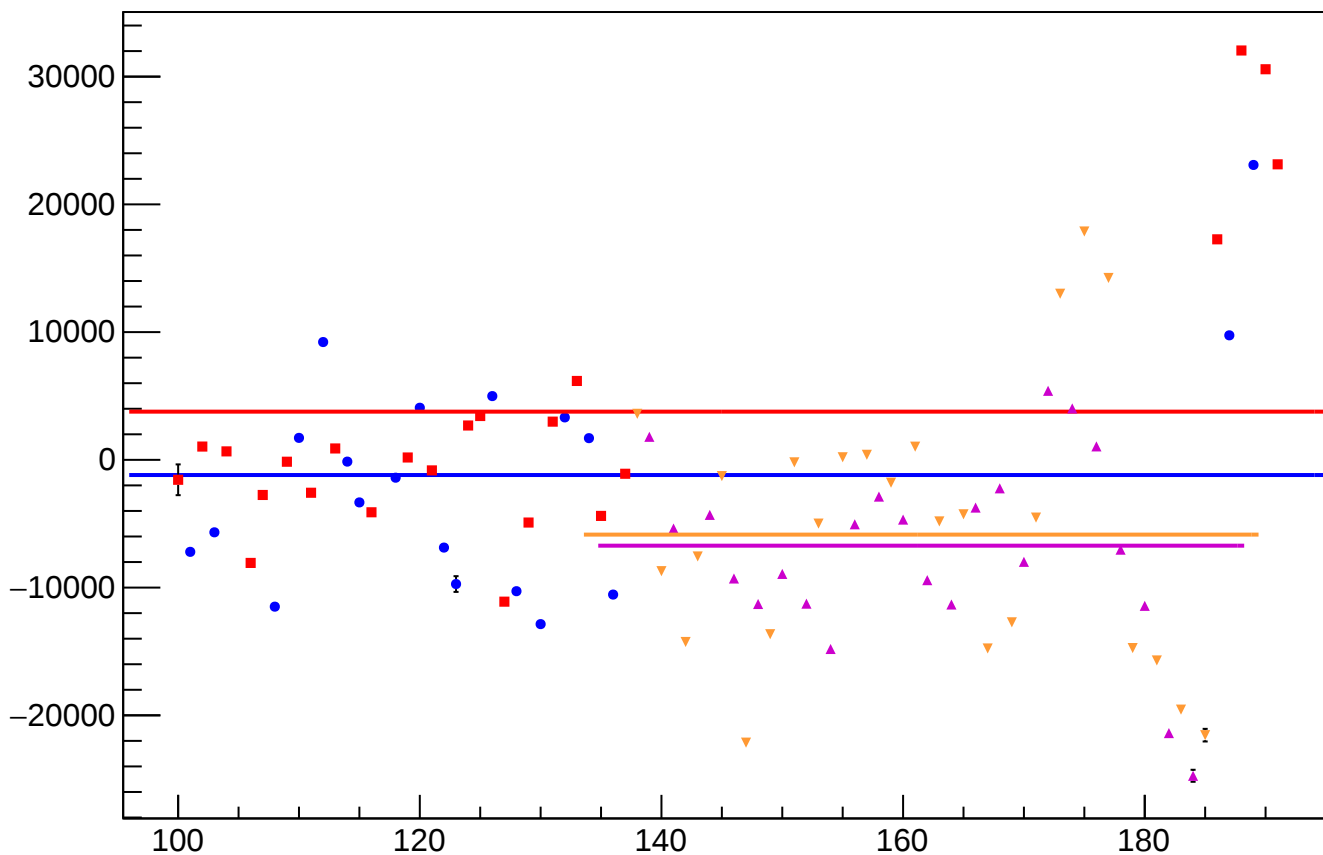
Right: 117.572 $\pm$ 0.022 χ^2 /NDF: 1689107.3/41

In: 131.413 $\pm$ 0.020 χ^2 /NDF: 3489586.5/41

Out: 130.114 $\pm$ 0.018 χ^2 /NDF: 3761845.4/47

All: 130.722 $\pm$ 0.013 χ^2 /NDF: 7253753.7/89

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -1187.988 $\pm$ 46.599 χ^2/NDF : 37999.0/18

Left Out: -5852.544 $\pm$ 35.880 χ^2/NDF : 63411.4/24

Right Out: 3774.129 $\pm$ 41.979 χ^2/NDF : 82060.2/22

Left In: -6718.475 $\pm$ 37.276 χ^2/NDF : 20934.3/22

Left: -6268.993 $\pm$ 25.850 χ^2/NDF : 84625.8/47

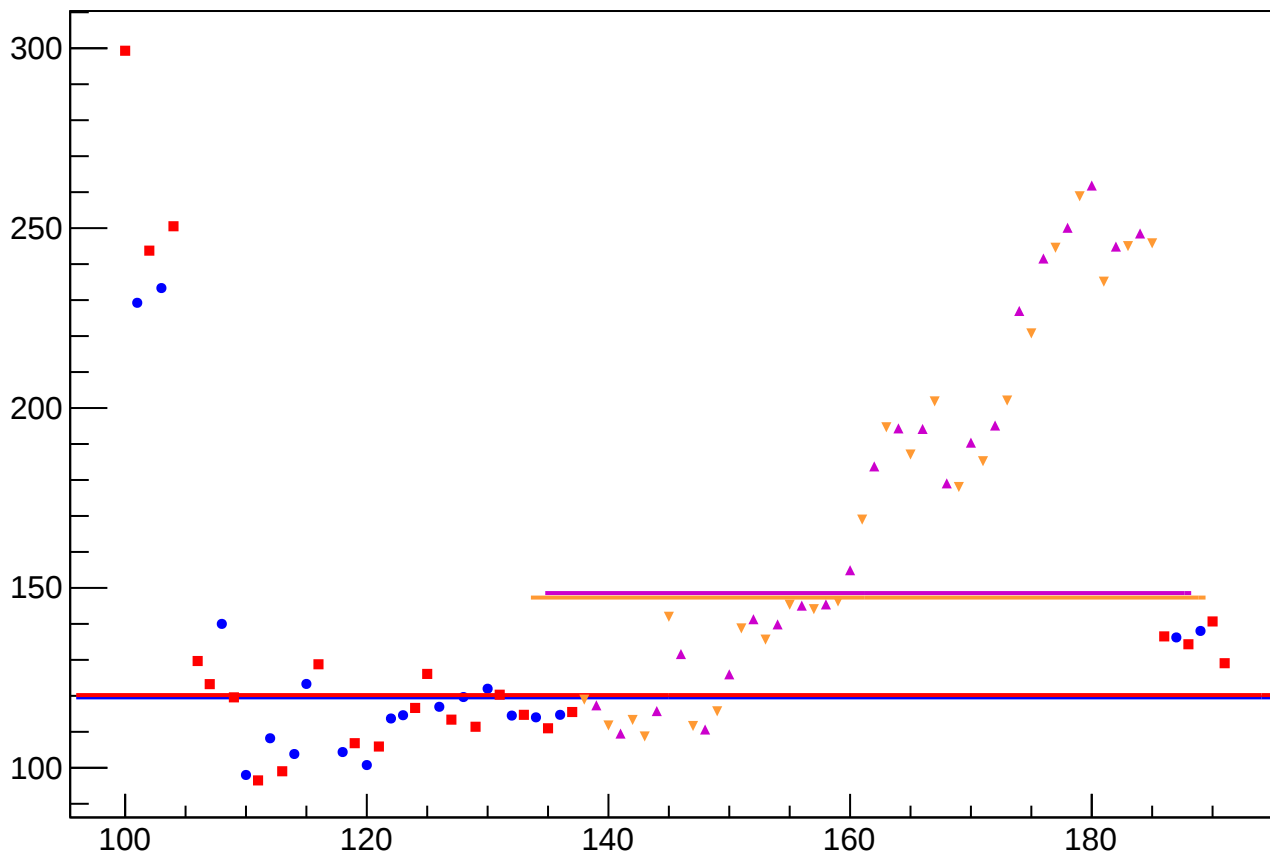
Right: 1551.201 $\pm$ 31.189 χ^2/NDF : 126318.5/41

In: -4560.507 $\pm$ 29.109 χ^2/NDF : 67522.6/41

Out: -1788.721 $\pm$ 27.275 χ^2/NDF : 175860.3/47

All: -3084.561 $\pm$ 19.903 χ^2/NDF : 248211.2/8

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 119.574+/-0.033 χ^2/NDF : 659419.8/18

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

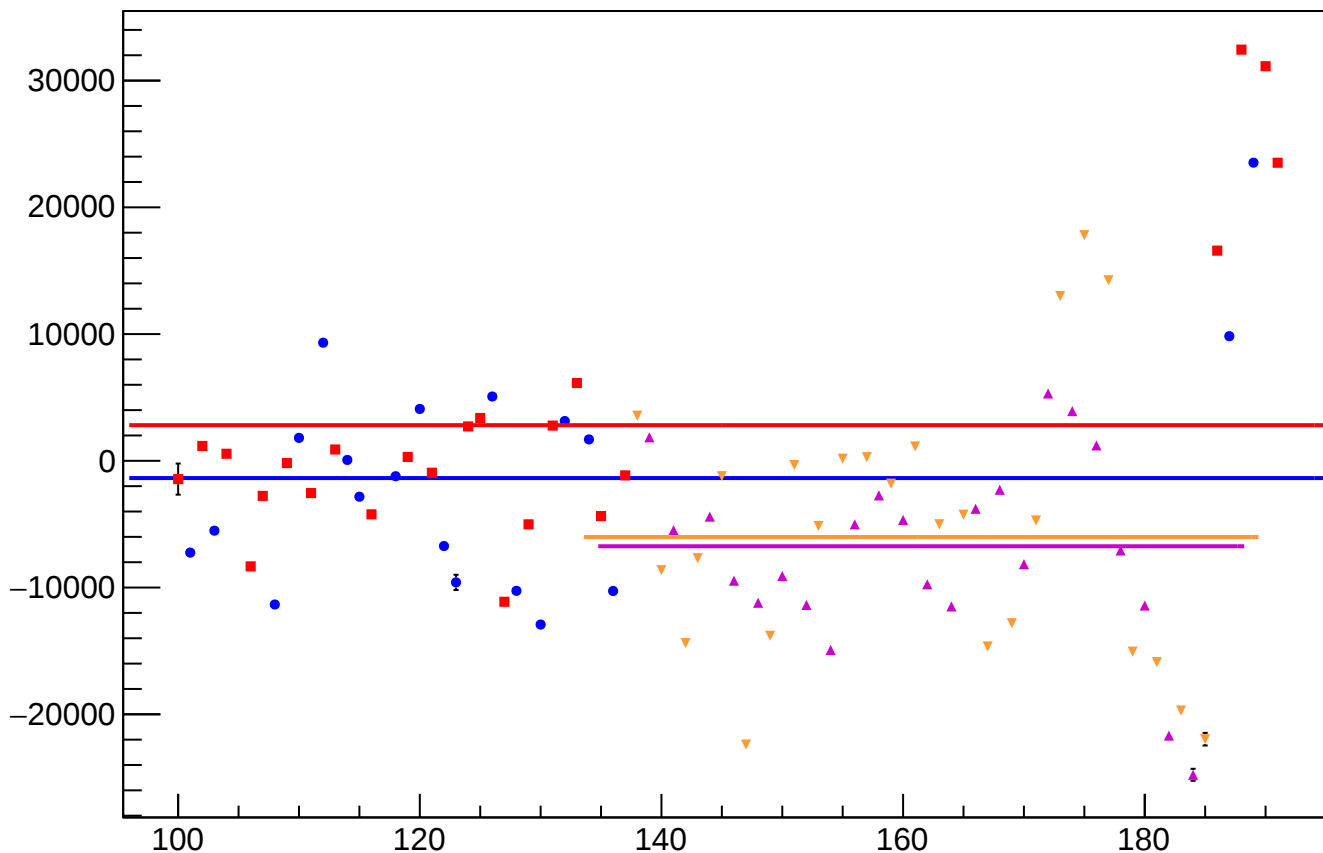
Right: 119.926+/-0.022 χ^2/NDF : 1406373.9/41

In: 137.255+/-0.021 χ^2/NDF : 3524768.9/41

Out: 135.875+/-0.019 χ^2/NDF : 3740270.7/47

All: 136.520+/-0.014 χ^2/NDF : 7267434.1/89

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -1362.049 ± 45.053 $\chi^2/\text{NDF}: 37971.3/18$

Left Out: -6009.913 ± 35.082 $\chi^2/\text{NDF}: 67852.2/24$

Right Out: 2813.357 ± 41.018 $\chi^2/\text{NDF}: 75777.8/22$

Left In: -6740.666 ± 36.379 $\chi^2/\text{NDF}: 22071.8/22$

Left: -6362.031 ± 25.253 $\chi^2/\text{NDF}: 90133.1/47$

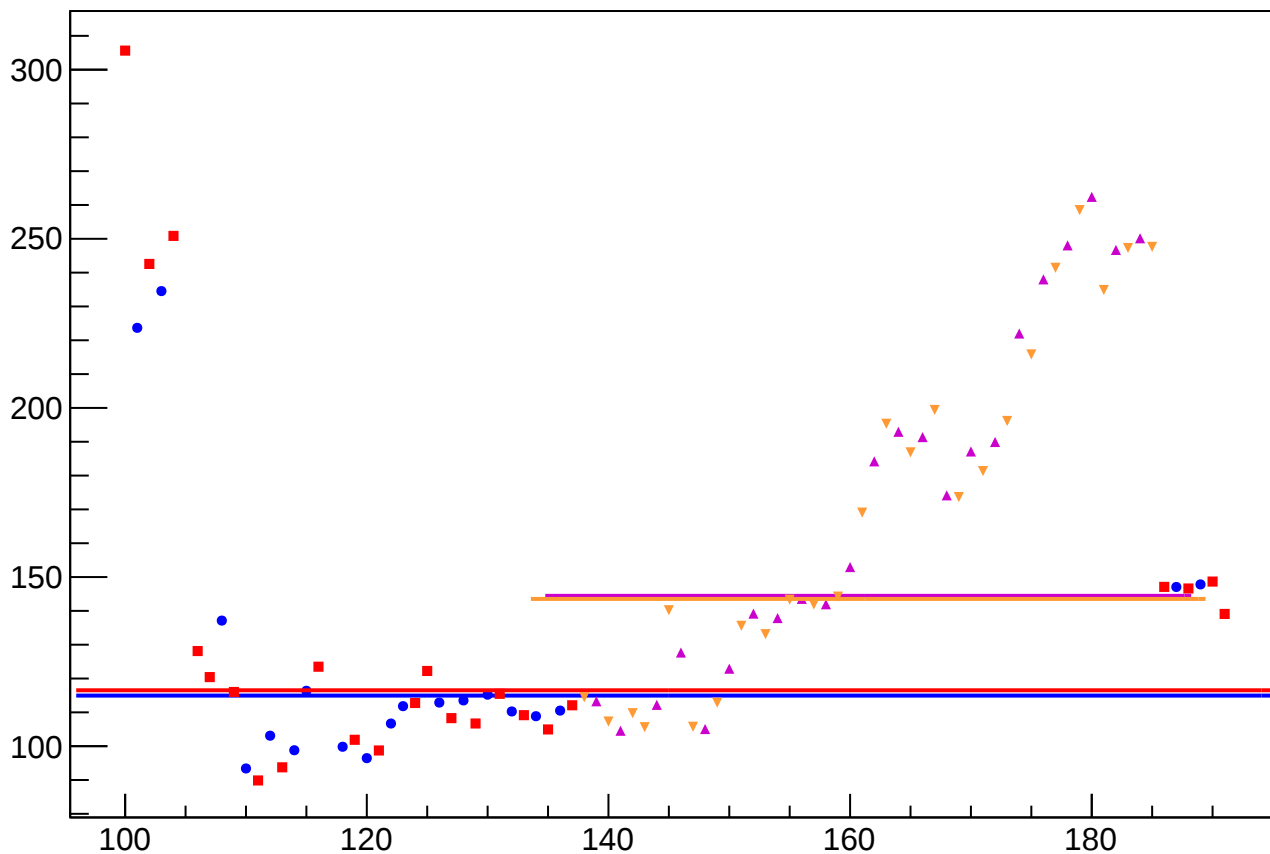
Right: 920.980 ± 30.331 $\chi^2/\text{NDF}: 118445.4/41$

In: -4617.851 ± 28.304 $\chi^2/\text{NDF}: 68670.4/41$

Out: -2282.327 ± 26.661 $\chi^2/\text{NDF}: 170352.7/47$

All: -3380.332 ± 19.407 $\chi^2/\text{NDF}: 242630.8/88$

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 114.956+/-0.032 χ^2/NDF : 745248.8/18

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

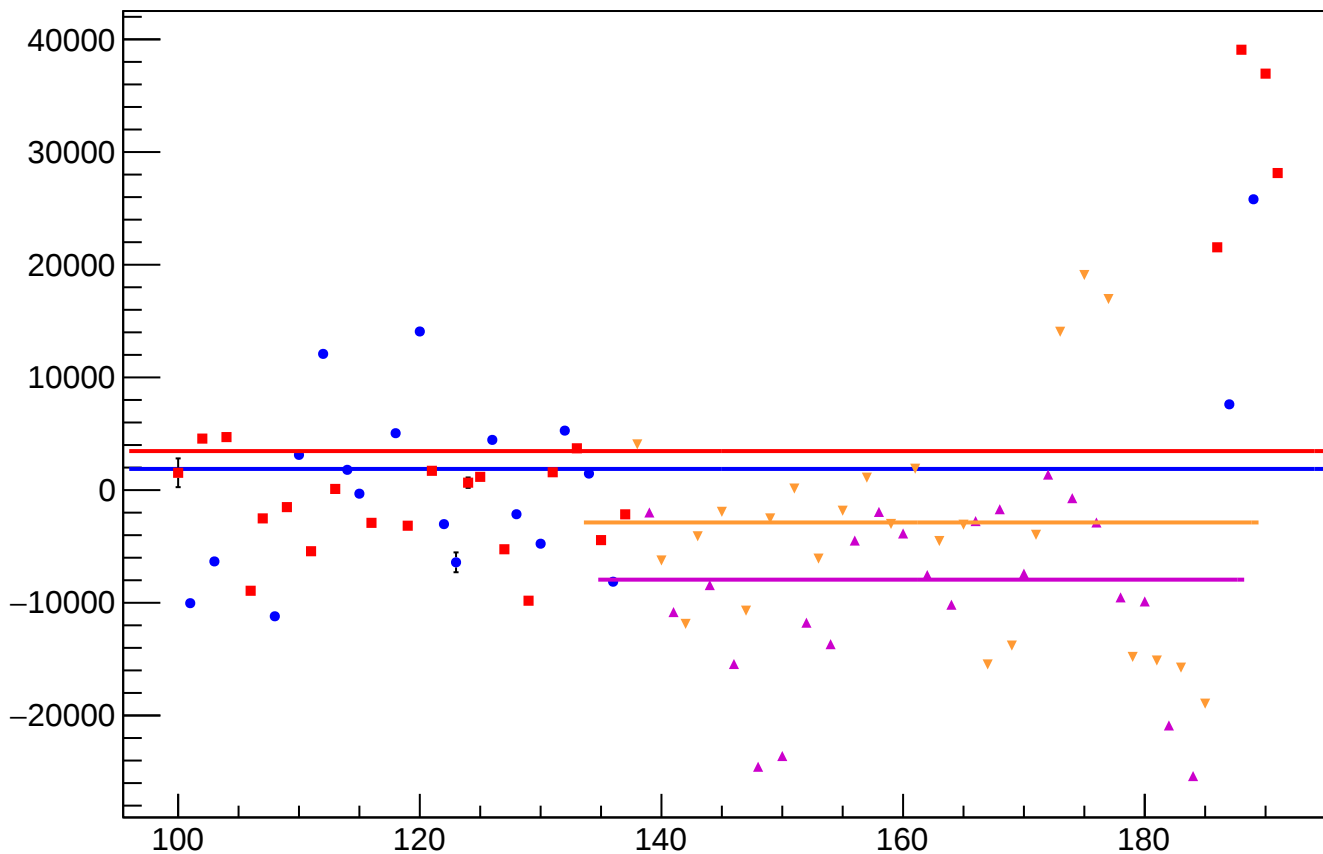
Right: 115.814+/-0.021 χ^2/NDF : 1689853.5/41

In: 132.803+/-0.020 χ^2/NDF : 3850643.7/41

Out: 132.121+/-0.019 χ^2/NDF : 4148762.3/47

All: 132.442+/-0.014 χ^2/NDF : 8000020.9/89

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 1878.604+/-54.415 χ^2/NDF : 27858.7/18

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

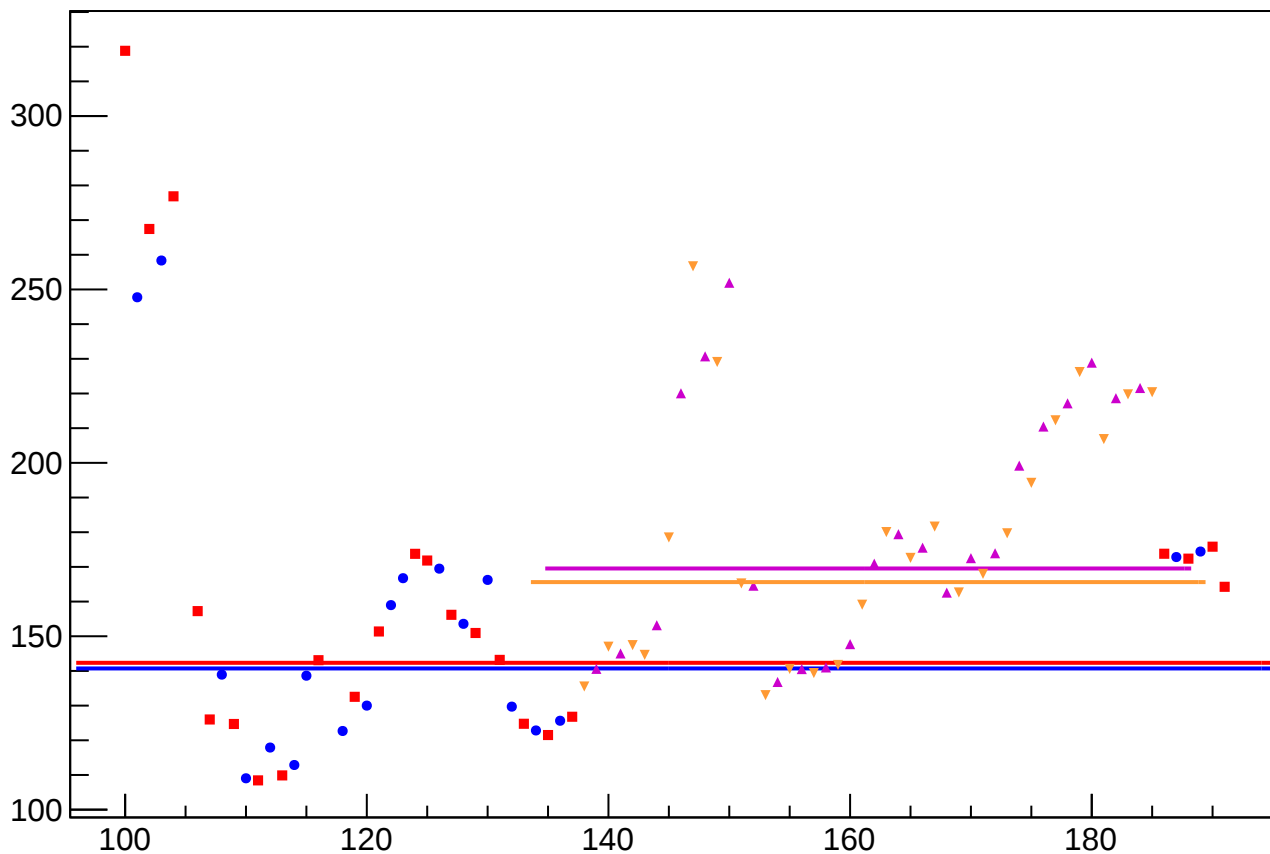
Right: 2745.011+/-36.637 χ^2/NDF : 103779.9/41

In: -4308.979+/-33.112 χ^2/NDF : 72265.7/41

Out: -410.747+/-30.878 χ^2/NDF : 131872.1/47

All: -2223.980+/-22.583 χ^2/NDF : 211551.1/8

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 140.713 $\pm$ 0.038 χ^2/NDF : 716395.5/18

Left Out: 165.616 $\pm$ 0.028 χ^2/NDF :1144779.3/24

Right Out: 142.342 $\pm$ 0.035 χ^2/NDF : 884755.7/22

Left In: 169.542 $\pm$ 0.030 χ^2/NDF :1159241.9/22

Left: 167.471 $\pm$ 0.020 χ^2/NDF : 2313359.6/47

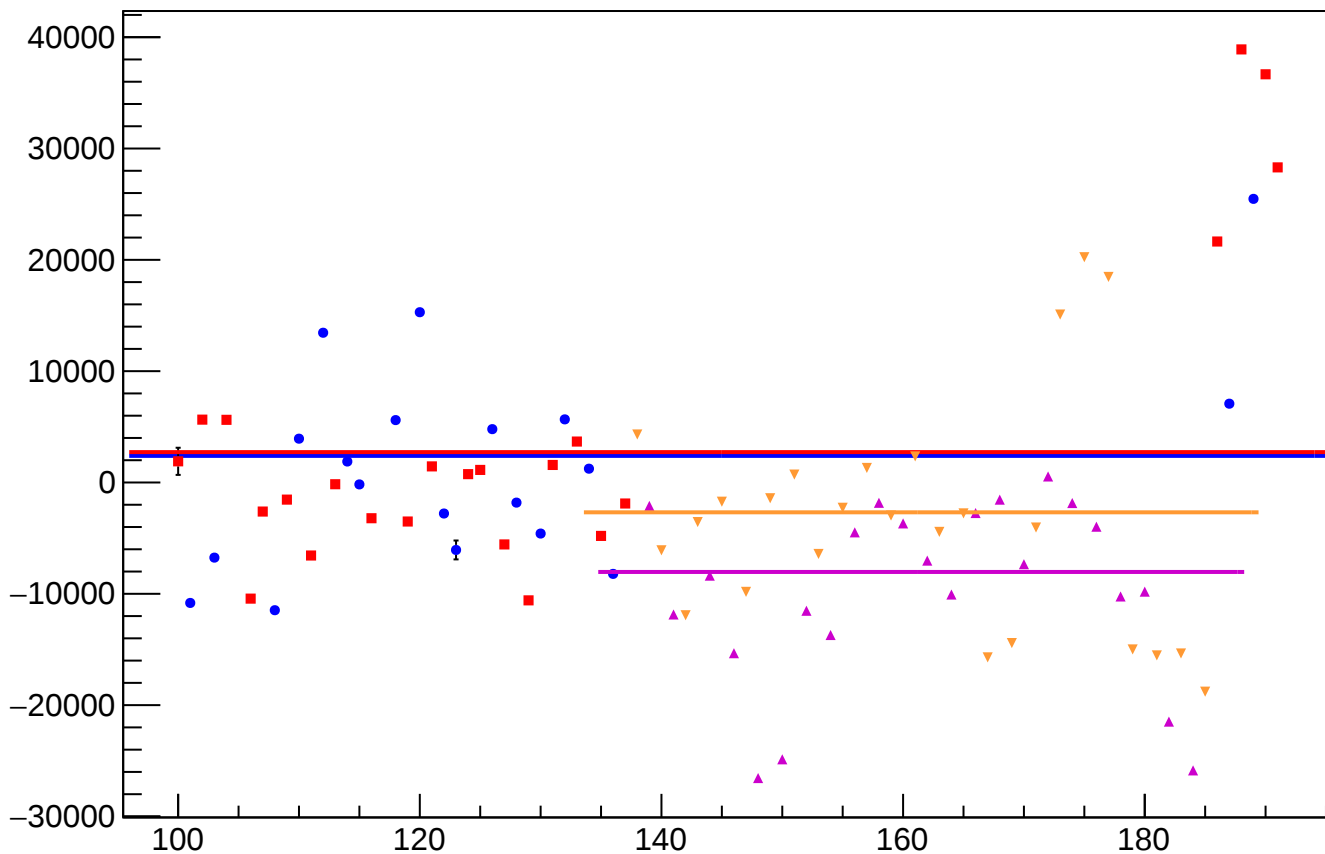
Right: 141.604 $\pm$ 0.026 χ^2/NDF : 1602131.3/41

In: 158.867 $\pm$ 0.023 χ^2/NDF :2229137.4/41

Out: 156.578 $\pm$ 0.022 χ^2/NDF :2299429.4/47

All: 157.643 $\pm$ 0.016 χ^2/NDF : 4533680.2/89

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 2390.763+/-45.311 χ^2/NDF : 42352.8/18

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: 2728.502+/-40.965 χ^2/NDF : 106400.7/22

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

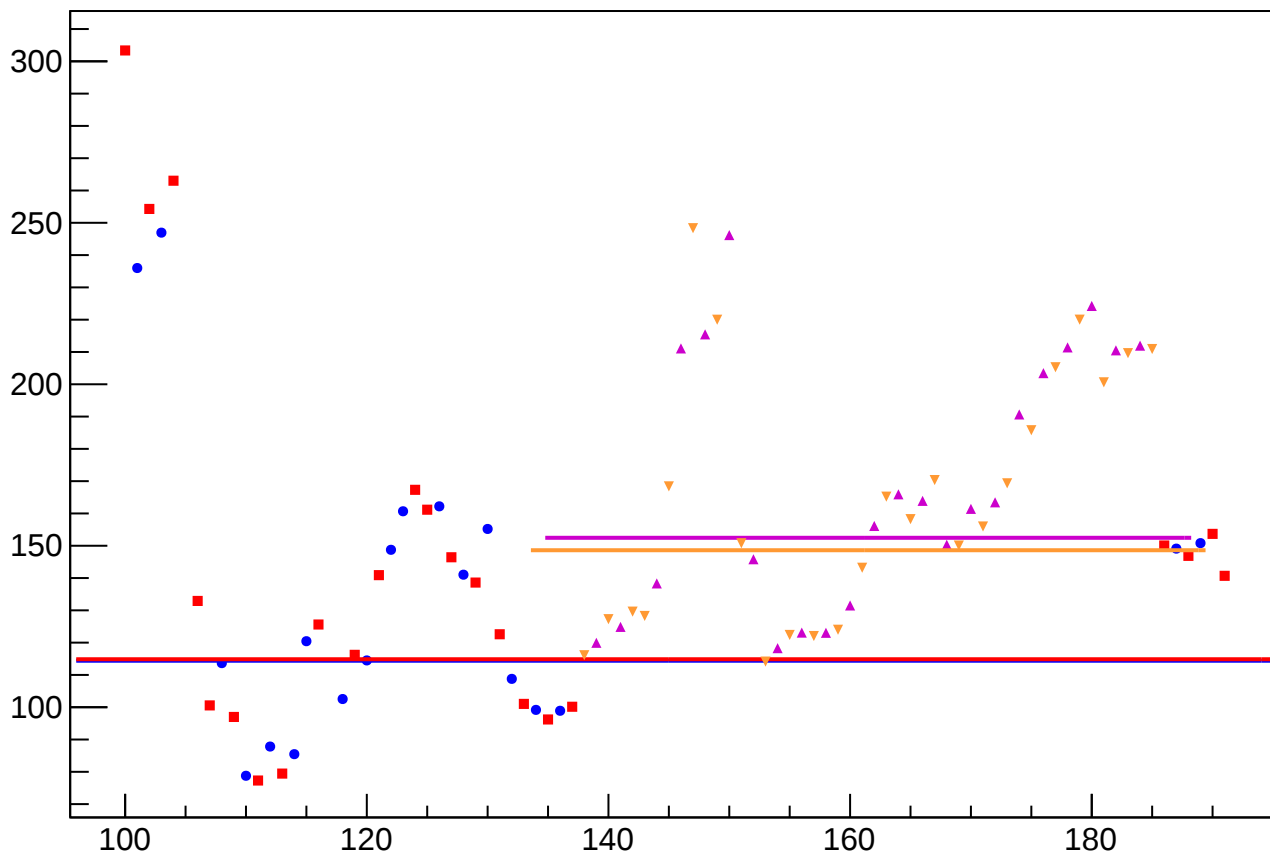
Right: 2576.602+/-30.387 χ^2/NDF : 148784.0/41

In: -3741.186+/-29.082 χ^2/NDF : 102758.4/41

Out: -340.735+/-26.941 χ^2/NDF : 173112.9/47

All: -1911.205+/-19.764 χ^2/NDF : 283228.8/8

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 114.400 ± 0.032 $\chi^2/\text{NDF}: 1199106.3/18$

Left Out: 148.611 ± 0.025 $\chi^2/\text{NDF}: 1685424.1/24$

Right Out: 114.856 ± 0.029 $\chi^2/\text{NDF}: 1481184.6/22$

Left In: 152.463 ± 0.027 $\chi^2/\text{NDF}: 1691517.7/22$

Left: 150.424 ± 0.018 $\chi^2/\text{NDF}: 3387867.0/47$

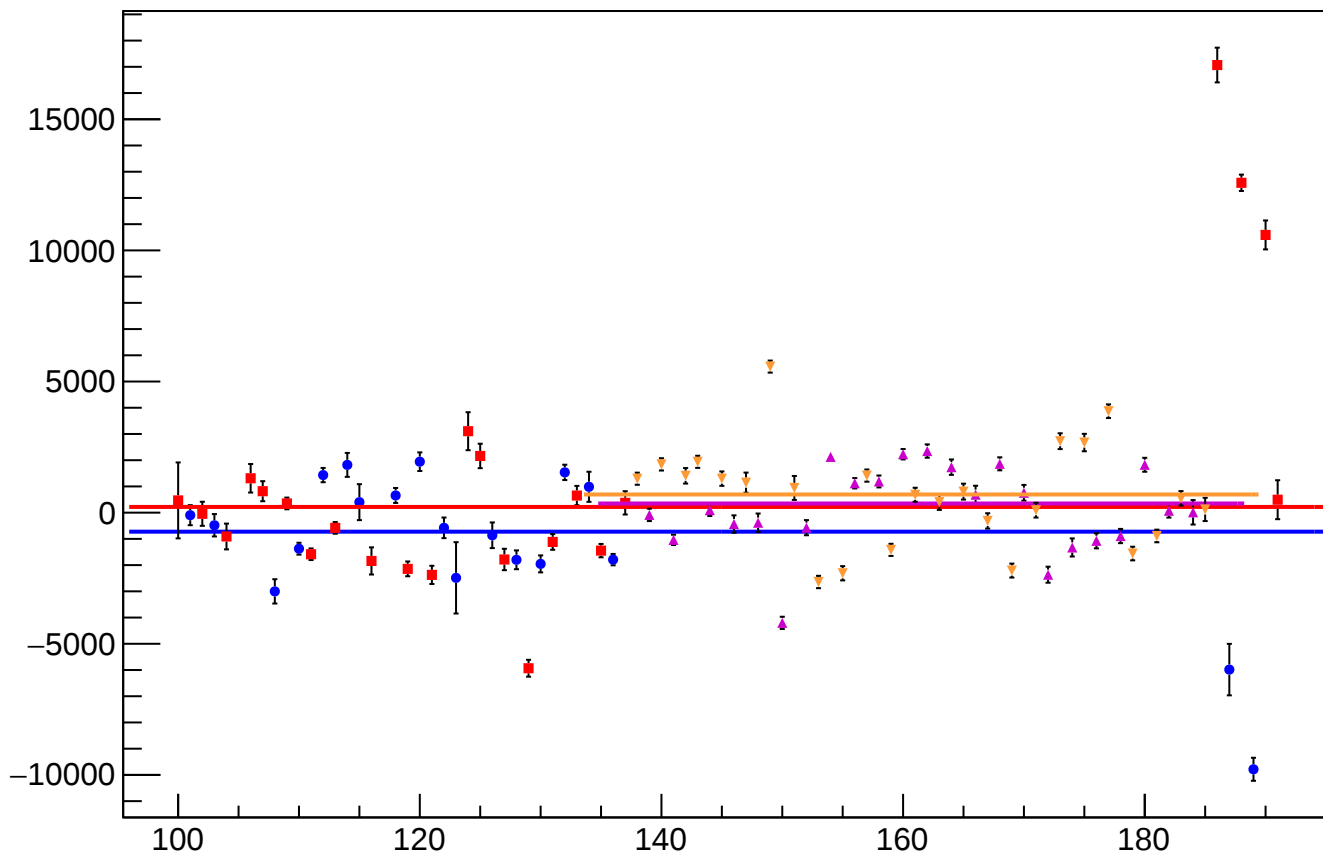
Right: 114.651 ± 0.021 $\chi^2/\text{NDF}: 2680402.7/41$

In: 136.783 ± 0.021 $\chi^2/\text{NDF}: 3720592.5/41$

Out: 134.011 ± 0.019 $\chi^2/\text{NDF}: 3937176.4/47$

All: 135.291 ± 0.014 $\chi^2/\text{NDF}: 7667545.4/89$

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -725.287 ± 82.228 $\chi^2/\text{NDF}: 784.6/18$

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 $\chi^2/\text{NDF}: 2423.4/47$

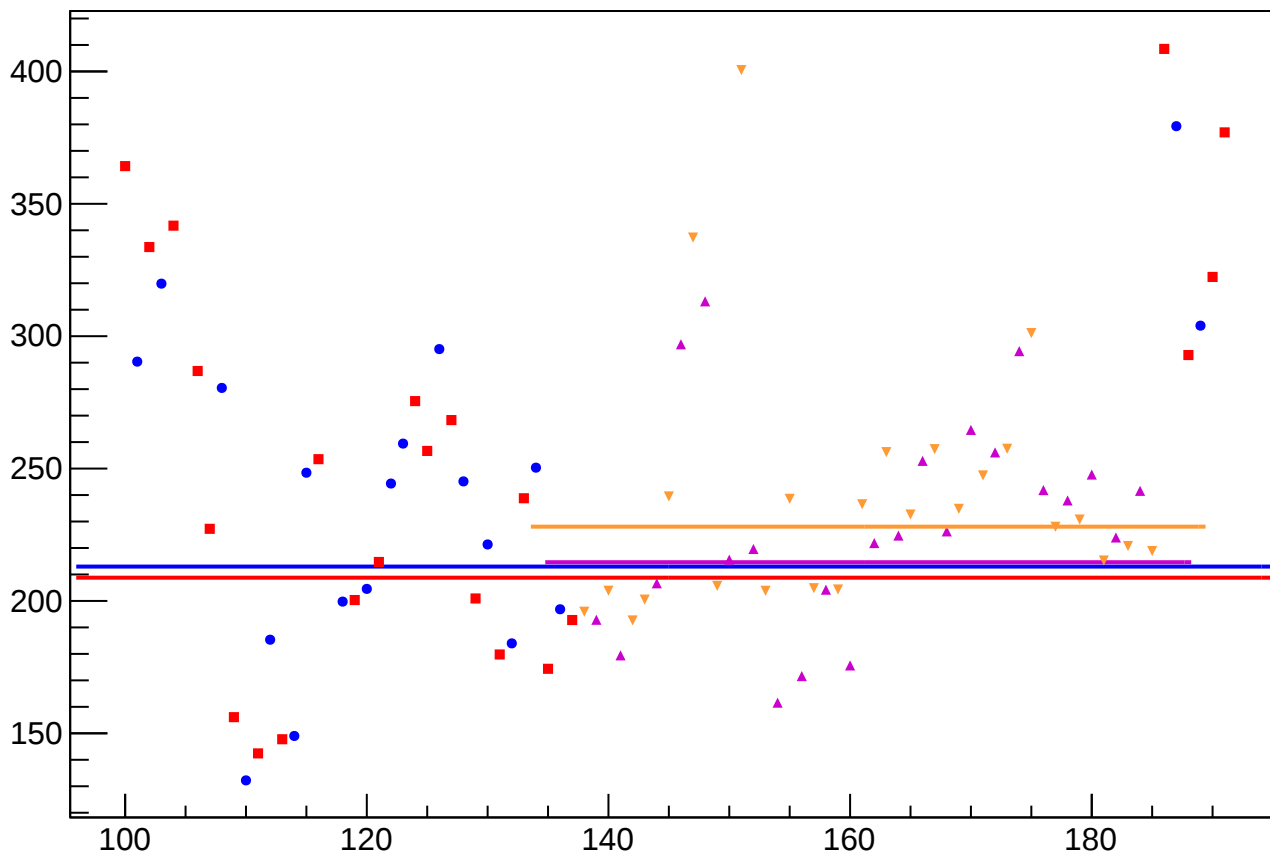
Right: -202.888 ± 54.931 $\chi^2/\text{NDF}: 4150.0/41$

In: 33.338 ± 44.604 $\chi^2/\text{NDF}: 1886.2/41$

Out: 526.257 ± 43.743 $\chi^2/\text{NDF}: 4741.4/47$

All: 284.602 ± 31.231 $\chi^2/\text{NDF}: 6689.8/89$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 212.981 ± 0.058 χ^2/NDF : 846206.2/18

Left Out: 228.061 ± 0.038 χ^2/NDF : 826343.8/24

Right Out: 208.787 ± 0.052 χ^2/NDF : 1488703.3/22

Left In: 214.627 ± 0.038 χ^2/NDF : 1025683.3/22

Left: 221.193 ± 0.027 χ^2/NDF : 1914604.4/47

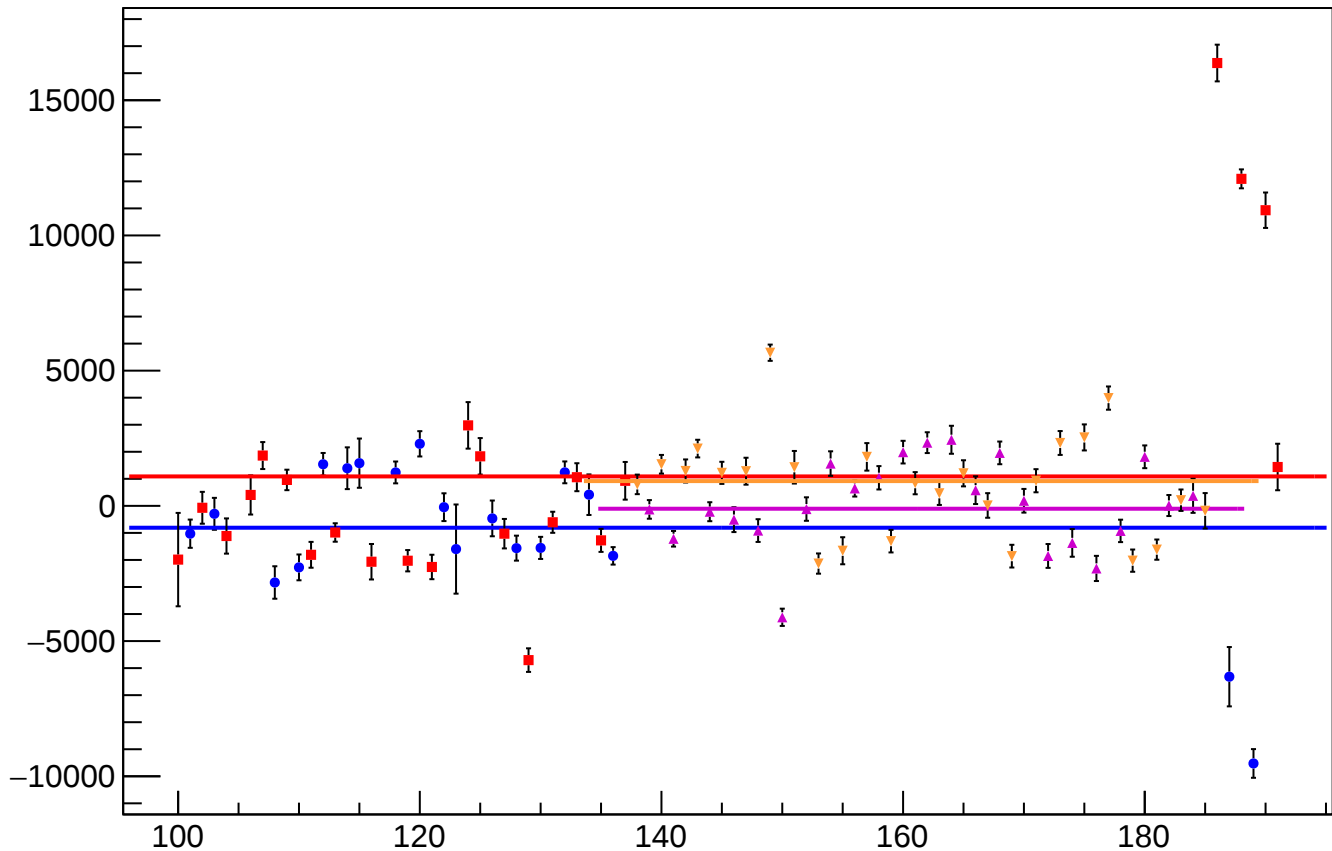
Right: 210.659 ± 0.039 χ^2/NDF : 2337789.6/41

In: 214.143 ± 0.032 χ^2/NDF : 1872455.3/41

Out: 221.293 ± 0.031 χ^2/NDF : 2403509.9/47

All: 217.788 ± 0.022 χ^2/NDF : 4302167.5/89

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -808.493 ± 117.807 $\chi^2/\text{NDF}: 480.8/18$

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 $\chi^2/\text{NDF}: 1082.8/47$

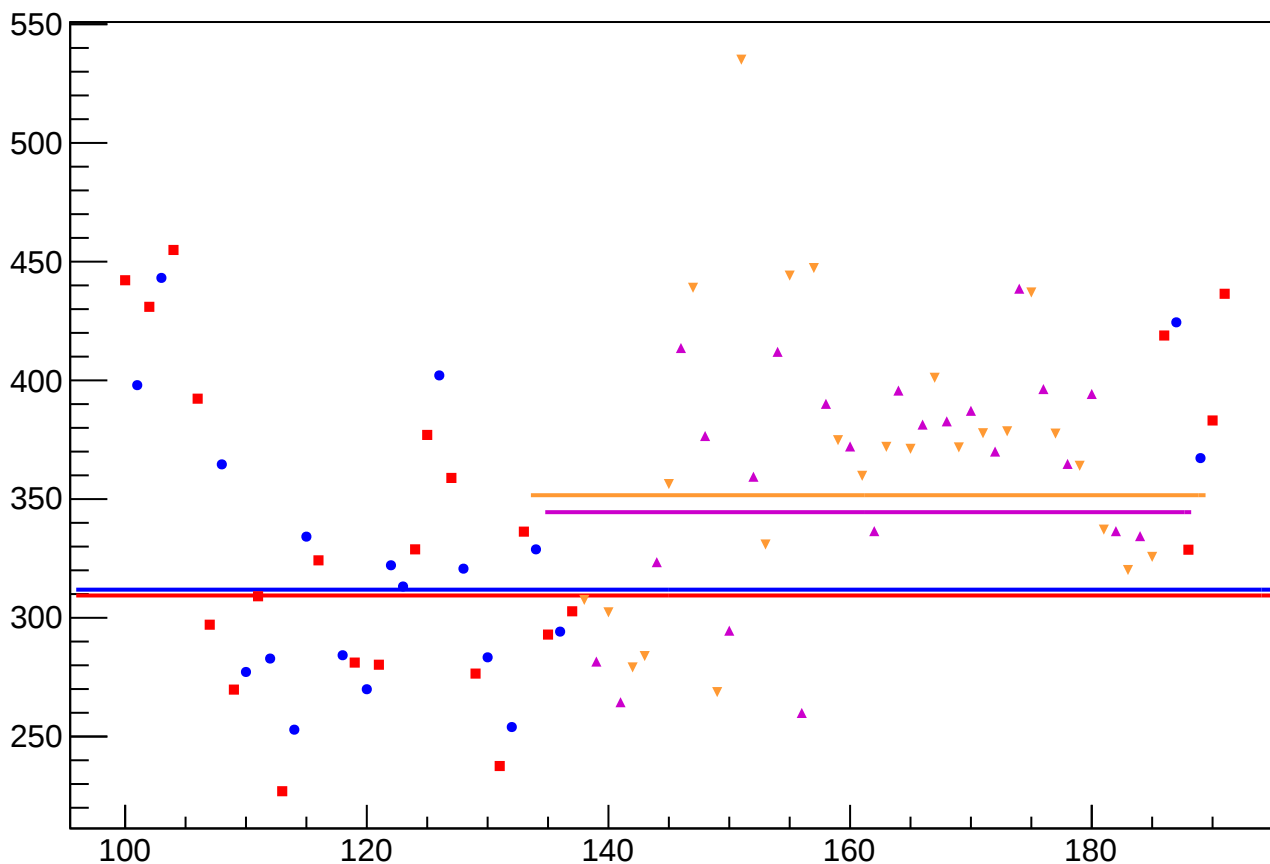
Right: 240.848 ± 78.756 $\chi^2/\text{NDF}: 2894.0/41$

In: -344.319 ± 68.606 $\chi^2/\text{NDF}: 894.6/41$

Out: 982.113 ± 65.520 $\chi^2/\text{NDF}: 2889.7/47$

All: 349.400 ± 47.383 $\chi^2/\text{NDF}: 3979.7/89$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 311.858 ± 0.083 $\chi^2/\text{NDF}: 366900.1/18$

Left Out: 351.633 ± 0.059 $\chi^2/\text{NDF}: 907849.3/24$

Right Out: 309.401 ± 0.075 $\chi^2/\text{NDF}: 635164.6/22$

Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$

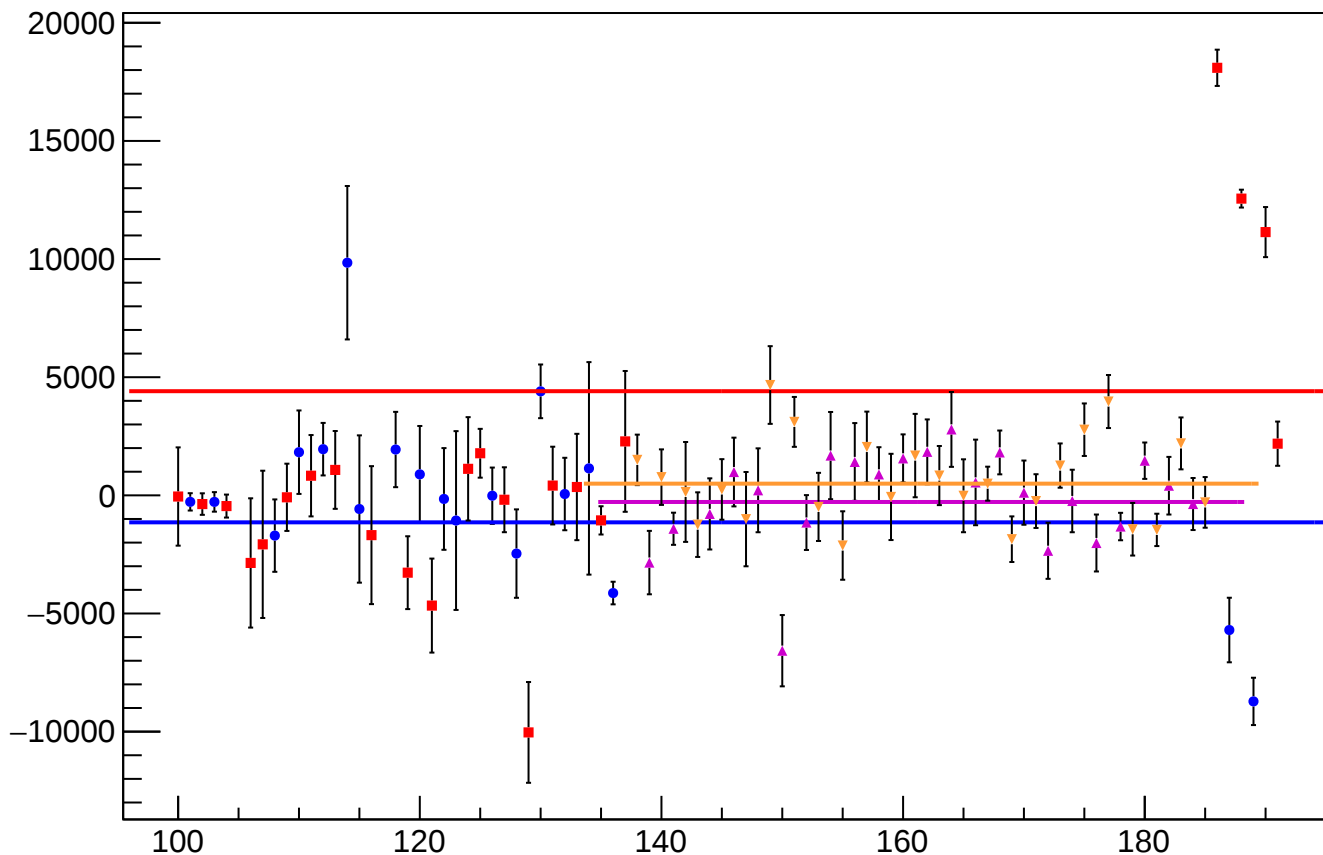
Right: 310.499 ± 0.056 $\chi^2/\text{NDF}: 1002545.9/41$

In: 333.424 ± 0.049 $\chi^2/\text{NDF}: 1237199.9/41$

Out: 335.467 ± 0.046 $\chi^2/\text{NDF}: 1739333.3/47$

All: 334.492 ± 0.034 $\chi^2/\text{NDF}: 2977460.8/89$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -1142.381 ± 203.700 $\chi^2/\text{NDF}: 170.7/18$

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 $\chi^2/\text{NDF}: 119.1/47$

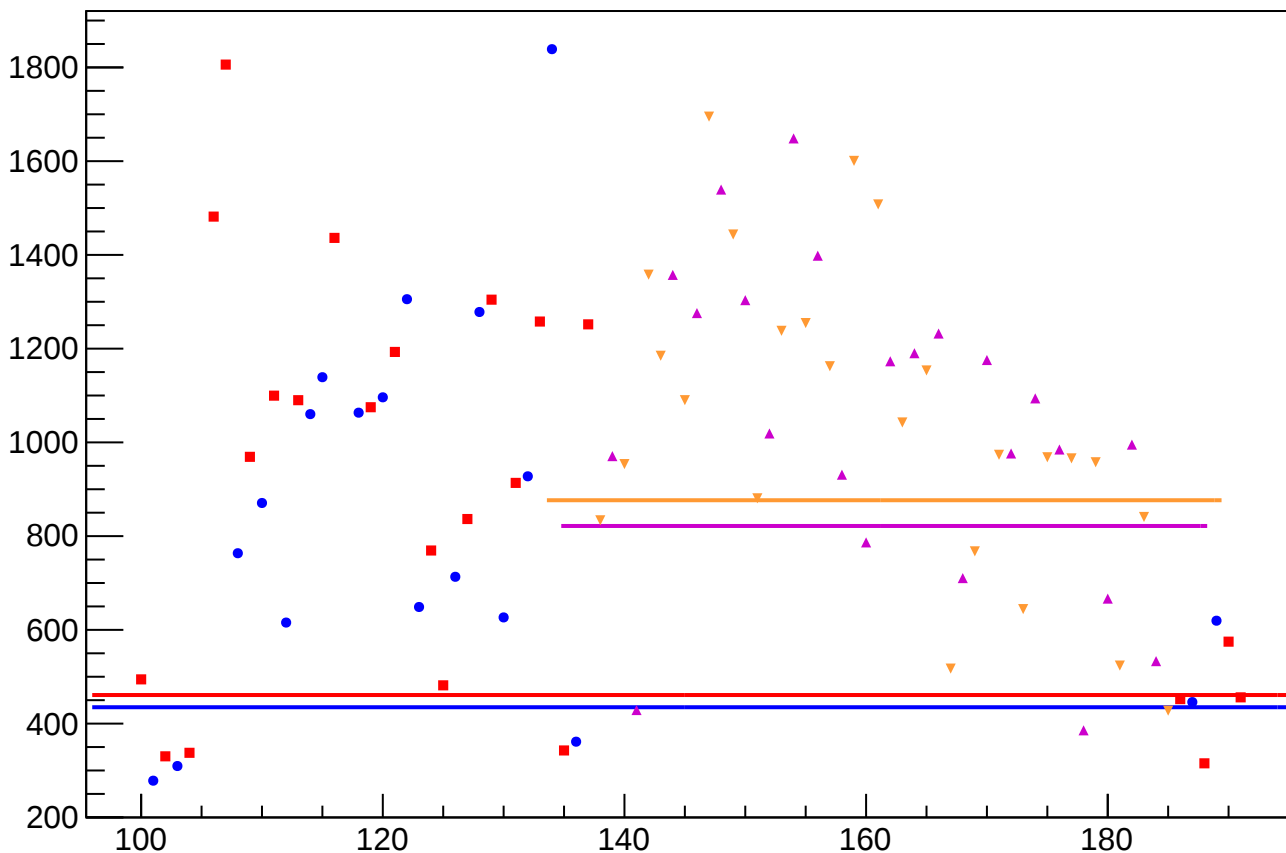
Right: 1820.825 ± 139.076 $\chi^2/\text{NDF}: 1849.0/41$

In: -767.357 ± 153.085 $\chi^2/\text{NDF}: 235.7/41$

Out: 2826.186 ± 146.914 $\chi^2/\text{NDF}: 1509.1/47$

All: 1103.299 ± 105.998 $\chi^2/\text{NDF}: 2031.6/89$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 434.938 $\pm$ 0.144 χ^2 /NDF: 2934365.4/18

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

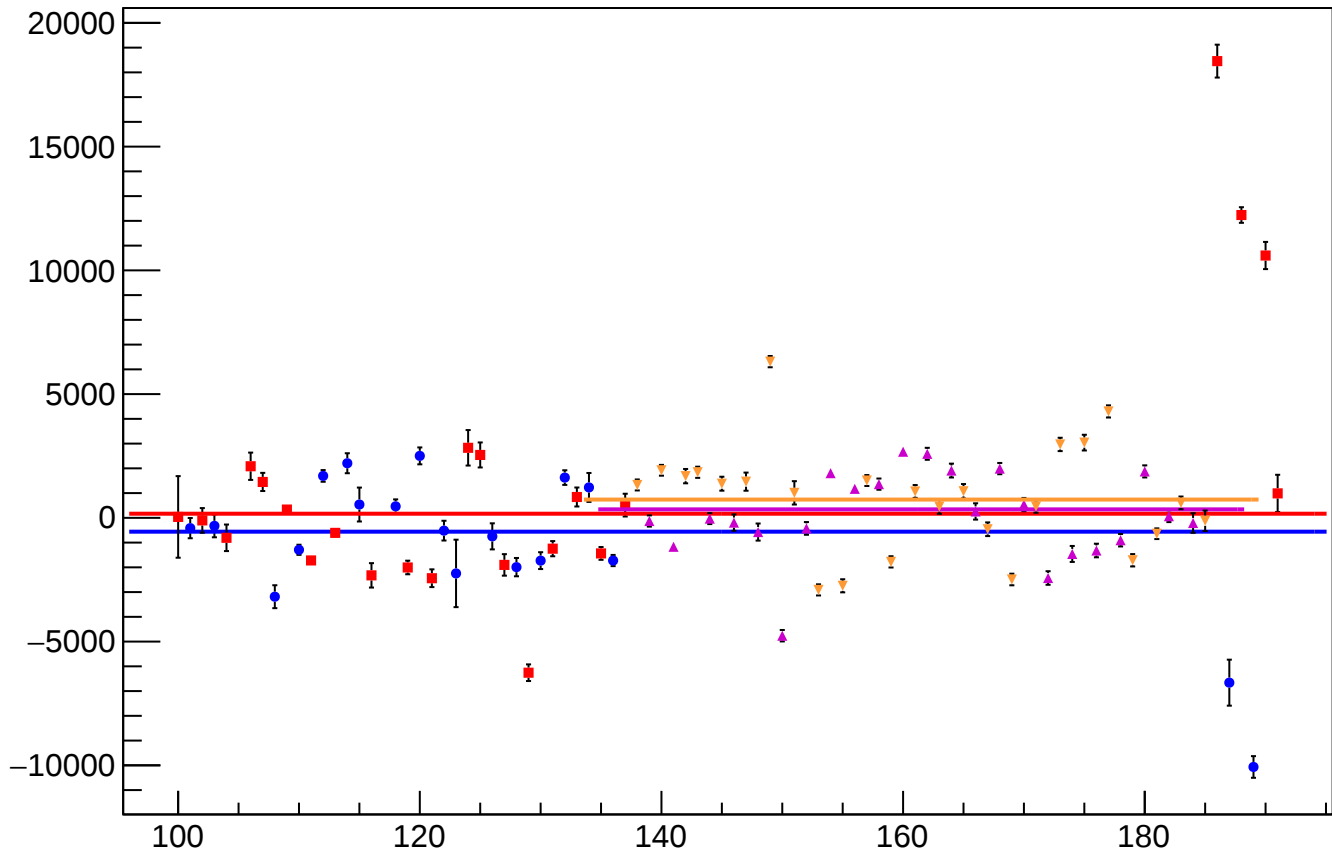
Right: 448.843 $\pm$ 0.098 χ^2 /NDF: 6974729.9/41

In: 603.246 $\pm$ 0.108 χ^2 /NDF:10514693.2/41

Out: 628.994 $\pm$ 0.104 χ^2 /NDF:11311754.4/47

All: 616.649 $\pm$ 0.075 χ^2 /NDF: 21855900.1/83

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -558.908 $\pm$ 80.807 χ^2/NDF : 913.5/18

Left Out: 738.847 $\pm$ 51.649 χ^2/NDF :1935.2/24

Right Out: 166.968 $\pm$ 71.670 χ^2/NDF : 3345.7/22

Left In: 342.465 $\pm$ 50.044 χ^2/NDF :1254.9/22

Left: 534.403 $\pm$ 35.941 χ^2/NDF : 3220.5/47

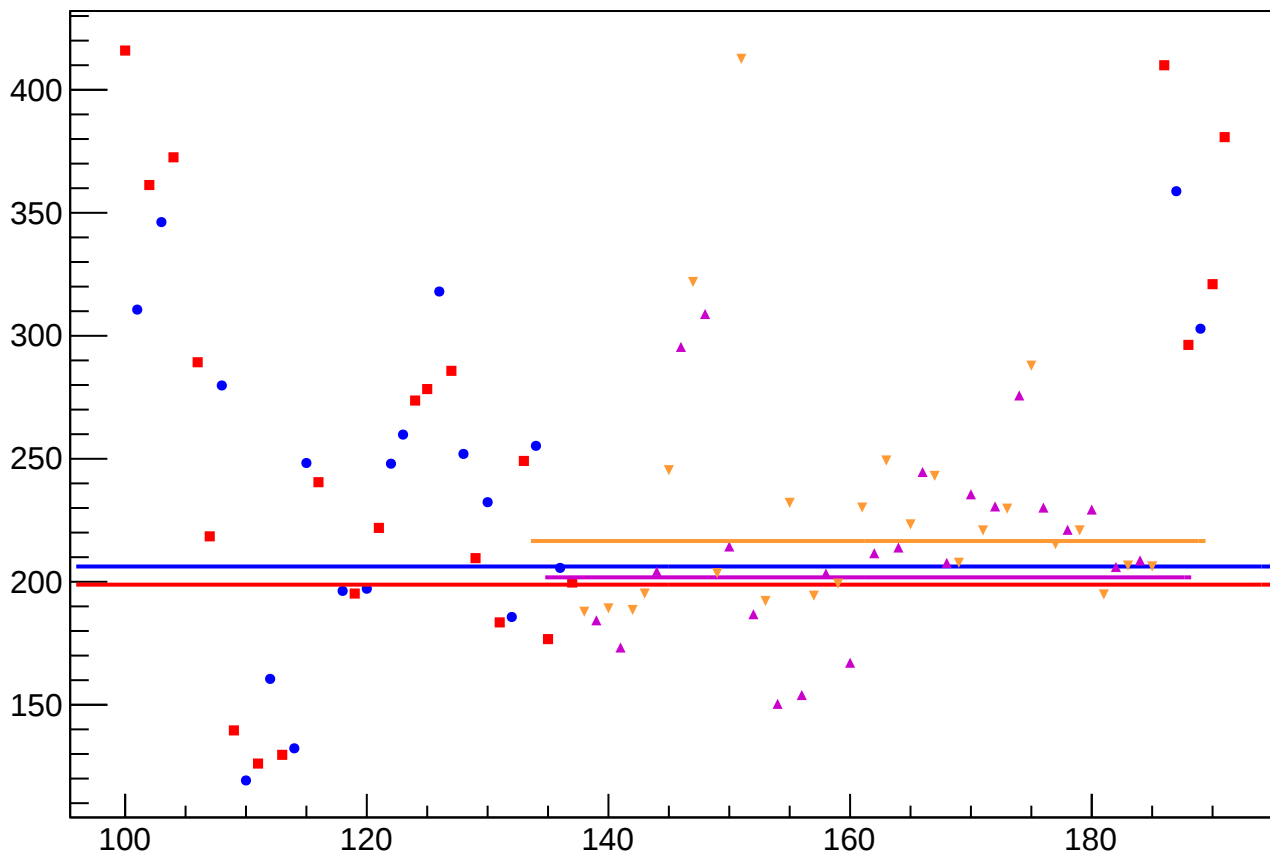
Right: -152.631 $\pm$ 53.619 χ^2/NDF : 4304.4/41

In: 92.588 $\pm$ 42.546 χ^2/NDF :2258.3/41

Out: 543.370 $\pm$ 41.902 χ^2/NDF :5322.8/47

All: 321.416 $\pm$ 29.854 χ^2/NDF : 7638.2/89

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 206.215 ± 0.057 χ^2/NDF : 1210167.7/18

Left Out: 216.574 ± 0.037 χ^2/NDF : 886214.1/24

Right Out: 198.841 ± 0.051 χ^2/NDF : 2051221.9/22

Left In: 201.805 ± 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 ± 0.025 χ^2/NDF : 2057801.5/47

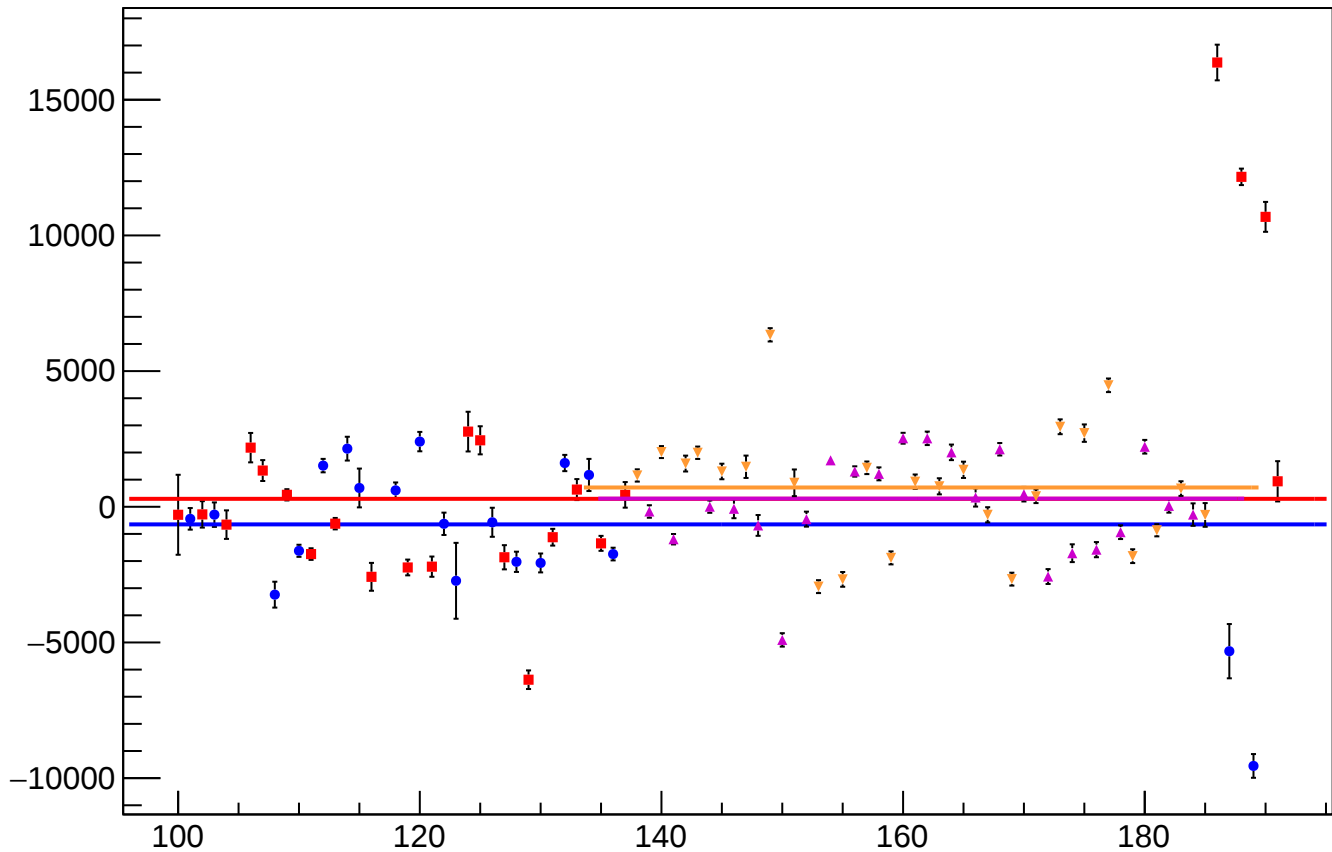
Right: 202.088 ± 0.038 χ^2/NDF : 3270712.6/41

In: 203.028 ± 0.030 χ^2/NDF : 2301716.0/41

Out: 210.513 ± 0.030 χ^2/NDF : 3018026.9/47

All: 206.827 ± 0.021 χ^2/NDF : 5351163.0/89

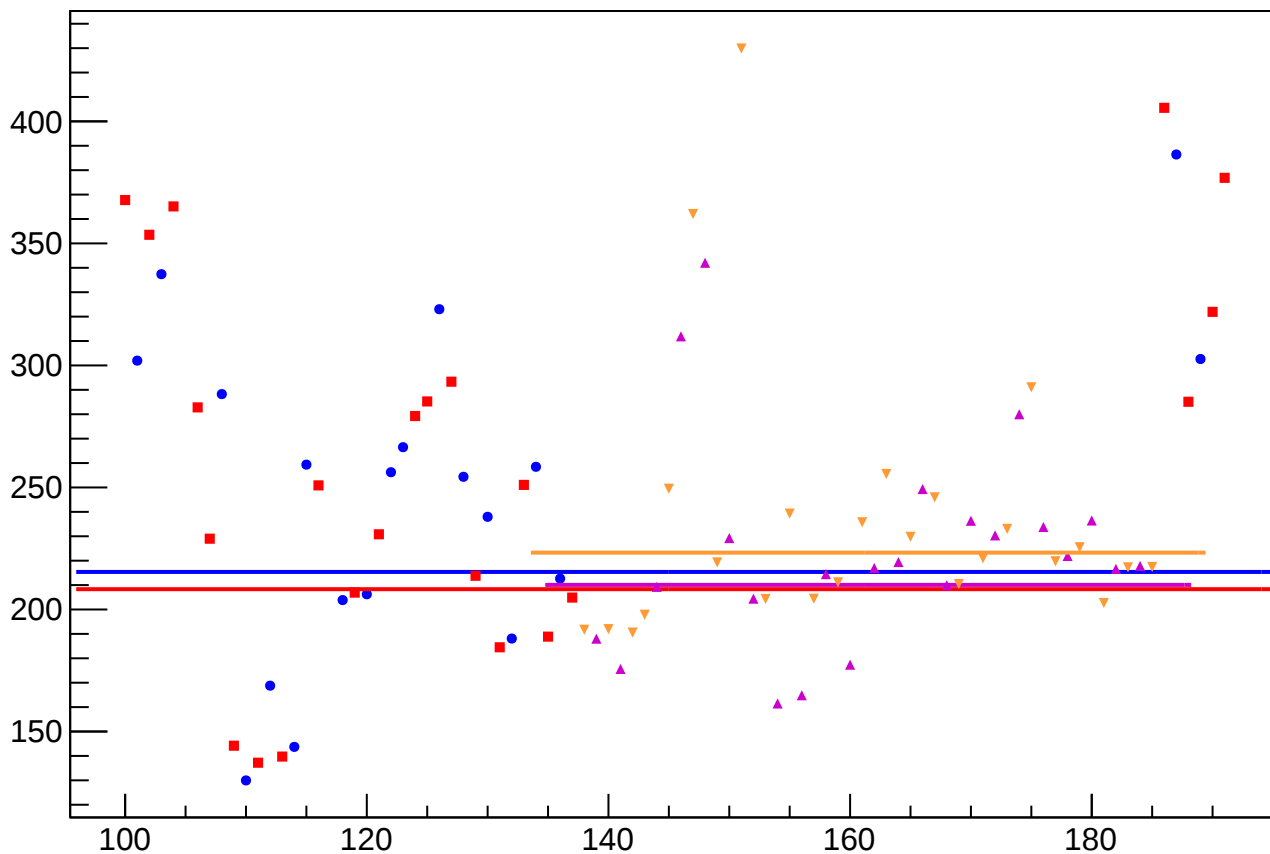
asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -648.763 ± 83.739 $\chi^2/\text{NDF}: 818.0/18$
 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: -122.033 ± 55.592 $\chi^2/\text{NDF}: 4144.3/41$
 In: 36.454 ± 44.166 $\chi^2/\text{NDF}: 2119.4/41$
 Out: 569.391 ± 43.286 $\chi^2/\text{NDF}: 5111.8/47$
 All: 308.281 ± 30.914 $\chi^2/\text{NDF}: 7305.4/89$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 215.389 ± 0.059 $\chi^2/\text{NDF}: 1016963.8/18$

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 $\chi^2/\text{NDF}: 2001132.1/47$

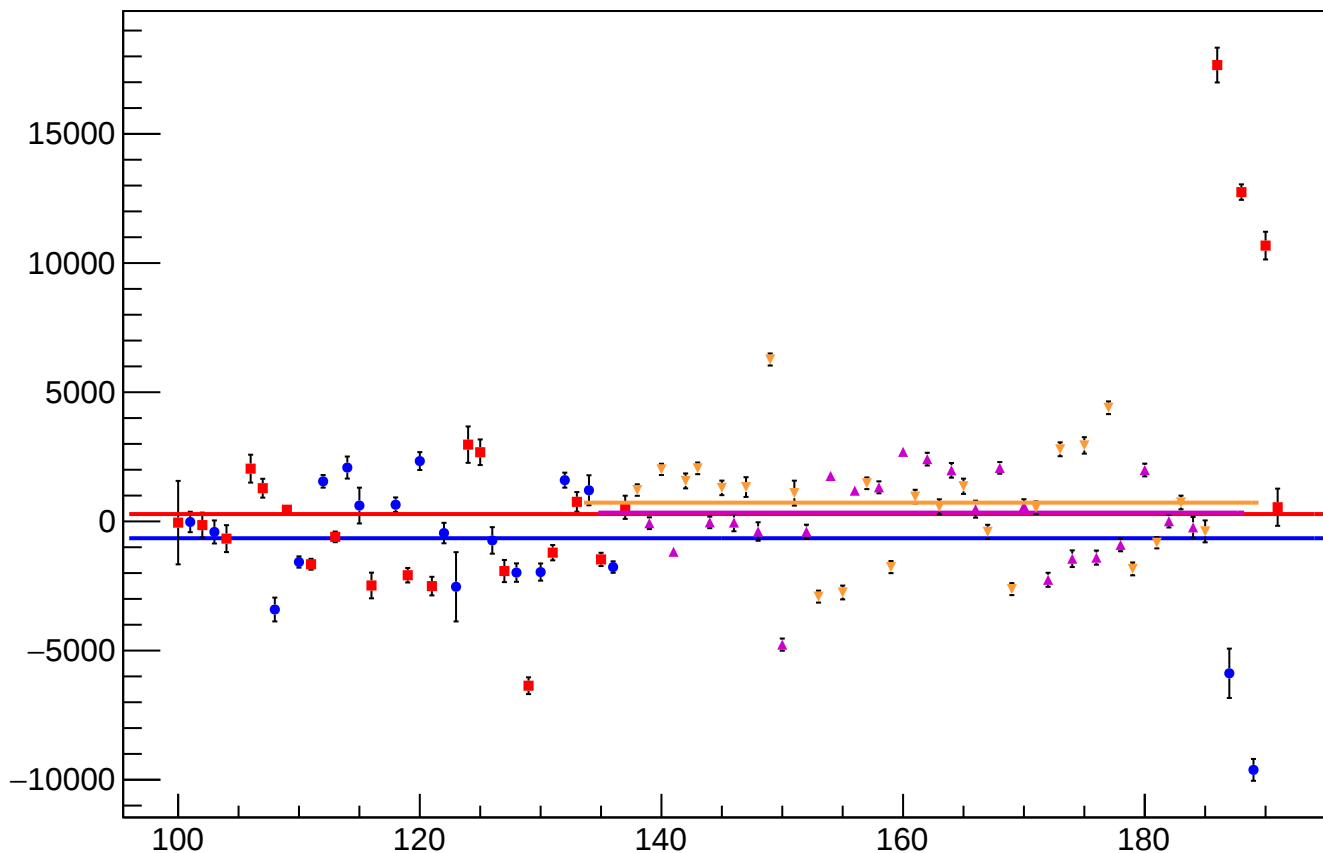
Right: 211.437 ± 0.039 $\chi^2/\text{NDF}: 2770393.2/41$

In: 211.557 ± 0.031 $\chi^2/\text{NDF}: 2038041.7/41$

Out: 218.219 ± 0.031 $\chi^2/\text{NDF}: 2721868.3/47$

All: 214.955 ± 0.022 $\chi^2/\text{NDF}: 4783120.5/89$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -651.386+/-81.149 χ^2/NDF : 884.2/18

Left Out: 725.866+/-52.158 χ^2/NDF : 1912.7/24

Right Out: 284.258+/-71.741 χ^2/NDF : 3610.6/22

Left In: 340.502+/-50.802 χ^2/NDF : 1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

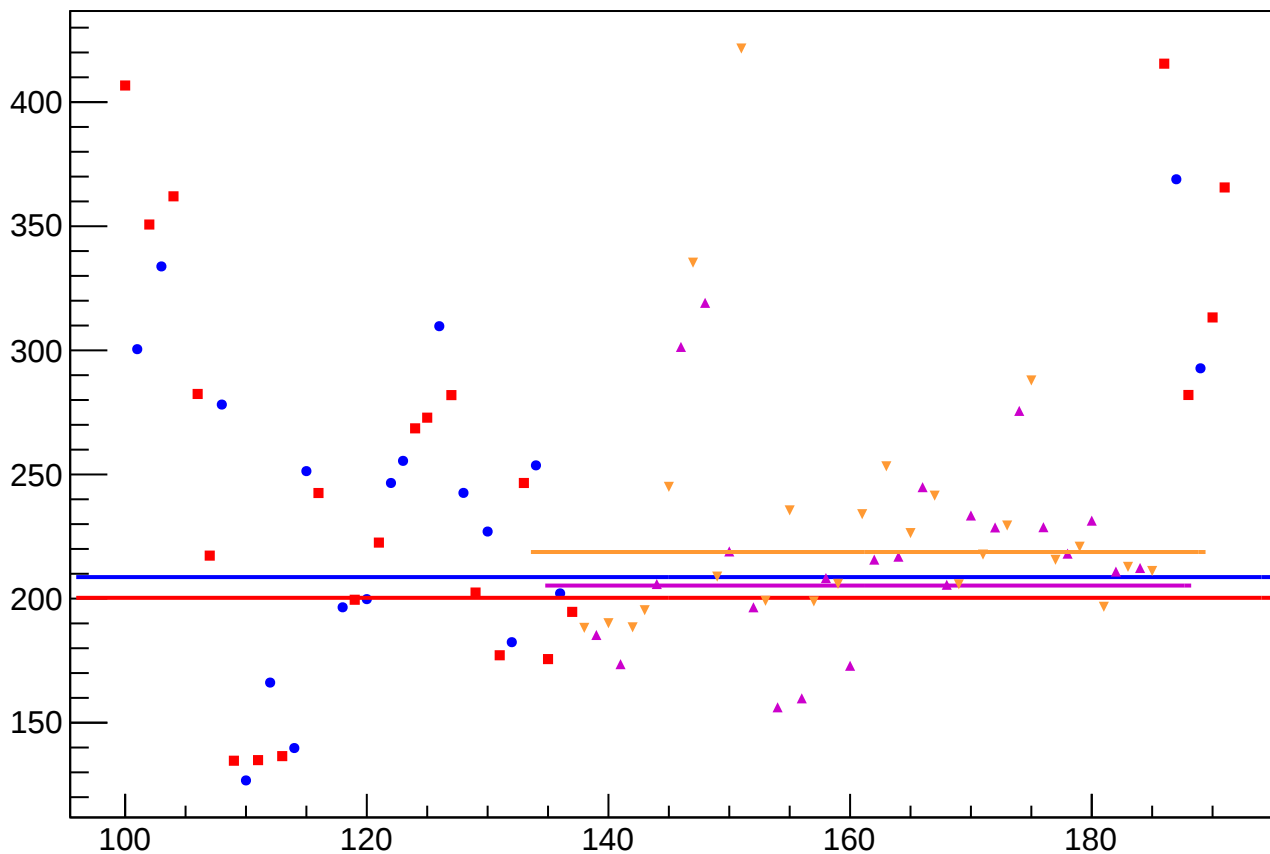
Right: -126.208+/-53.749 χ^2/NDF : 4569.4/41

In: 61.217+/-43.060 χ^2/NDF : 2193.4/41

Out: 573.160+/-42.187 χ^2/NDF : 5548.1/47

All: 322.431+/-30.135 χ^2/NDF : 7813.6/89

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 208.661 $\pm$ 0.057 χ^2 /NDF: 1007285.3/18

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF:896914.5/24

Right Out: 200.311 $\pm$ 0.051 χ^2 /NDF: 1844463.2/22

Left In: 205.249 $\pm$ 0.036 χ^2 /NDF:997168.8/22

Left: 211.831 $\pm$ 0.026 χ^2 /NDF: 1963037.5/47

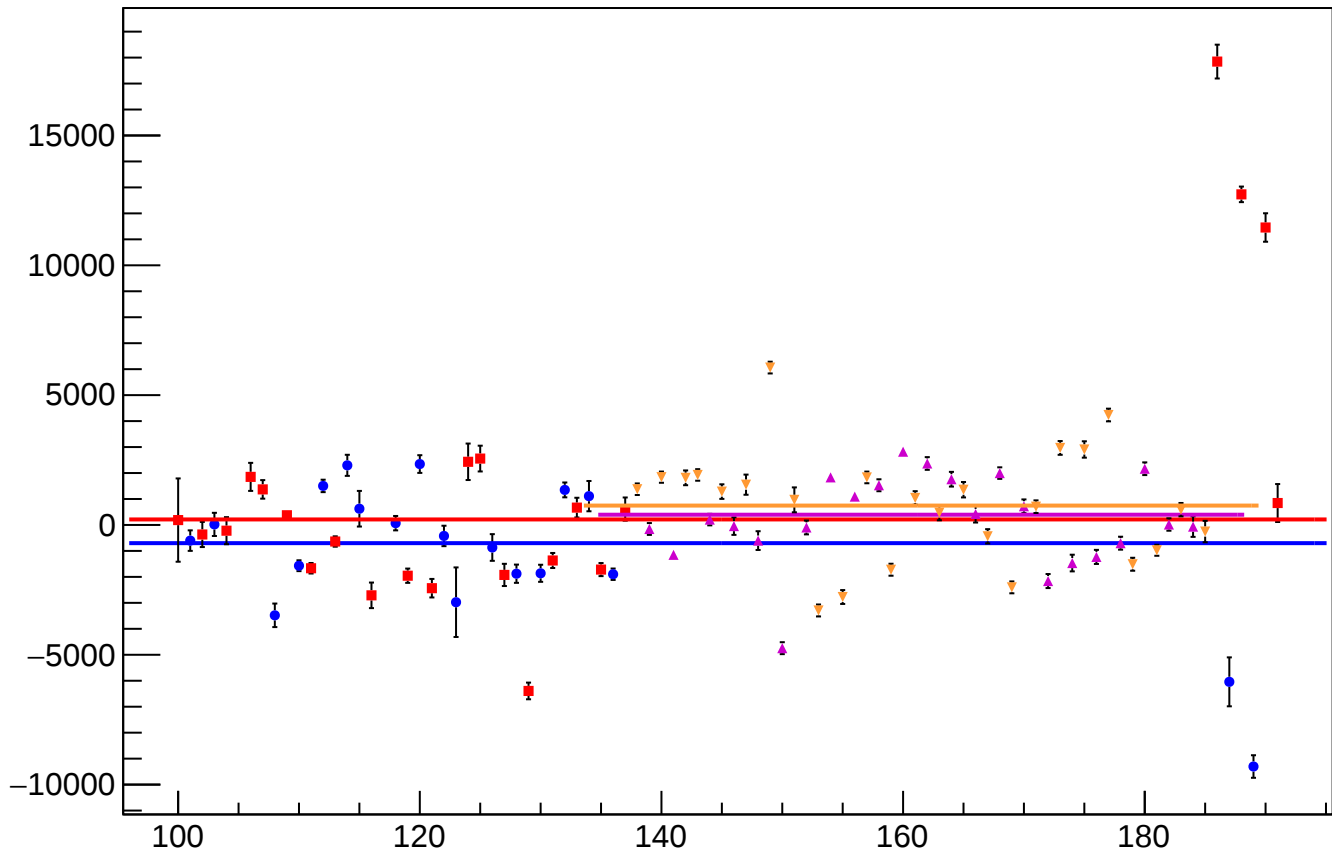
Right: 203.974 $\pm$ 0.038 χ^2 /NDF: 2863633.5/41

In: 206.210 $\pm$ 0.030 χ^2 /NDF:2006993.6/41

Out: 212.386 $\pm$ 0.030 χ^2 /NDF:2827985.2/47

All: 209.361 $\pm$ 0.021 χ^2 /NDF: 4855973.4/89

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -700.676+/-79.831 χ^2/NDF : 830.2/18

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: 212.285+/-70.354 χ^2/NDF : 3748.5/22

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

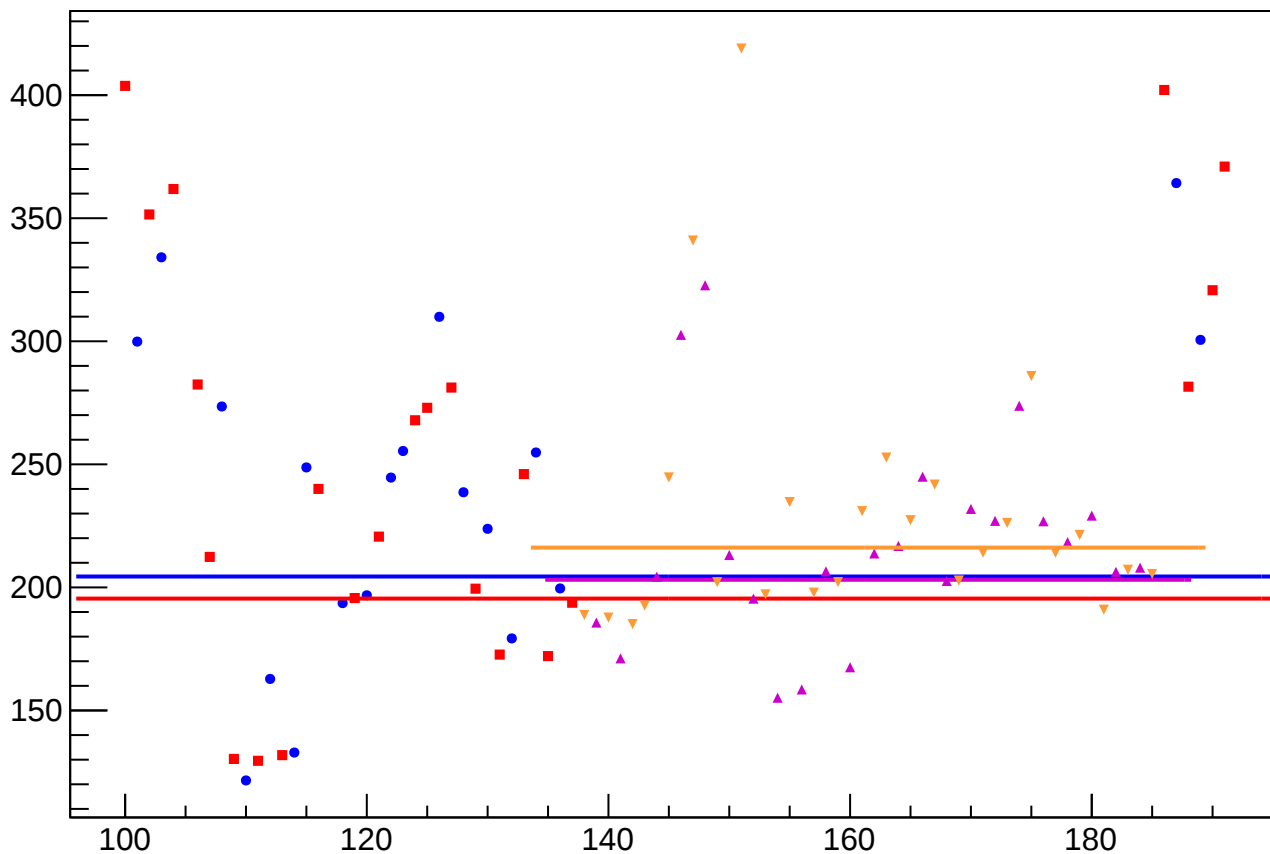
Right: -186.818+/-52.782 χ^2/NDF : 4652.3/41

In: 83.083+/-42.564 χ^2/NDF :2201.3/41

Out: 559.624+/-41.604 χ^2/NDF :5728.1/47

All: 326.785+/-29.752 χ^2/NDF : 7993.5/89

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 204.428 $\pm$ 0.056 χ^2/NDF : 1102615.8/18

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

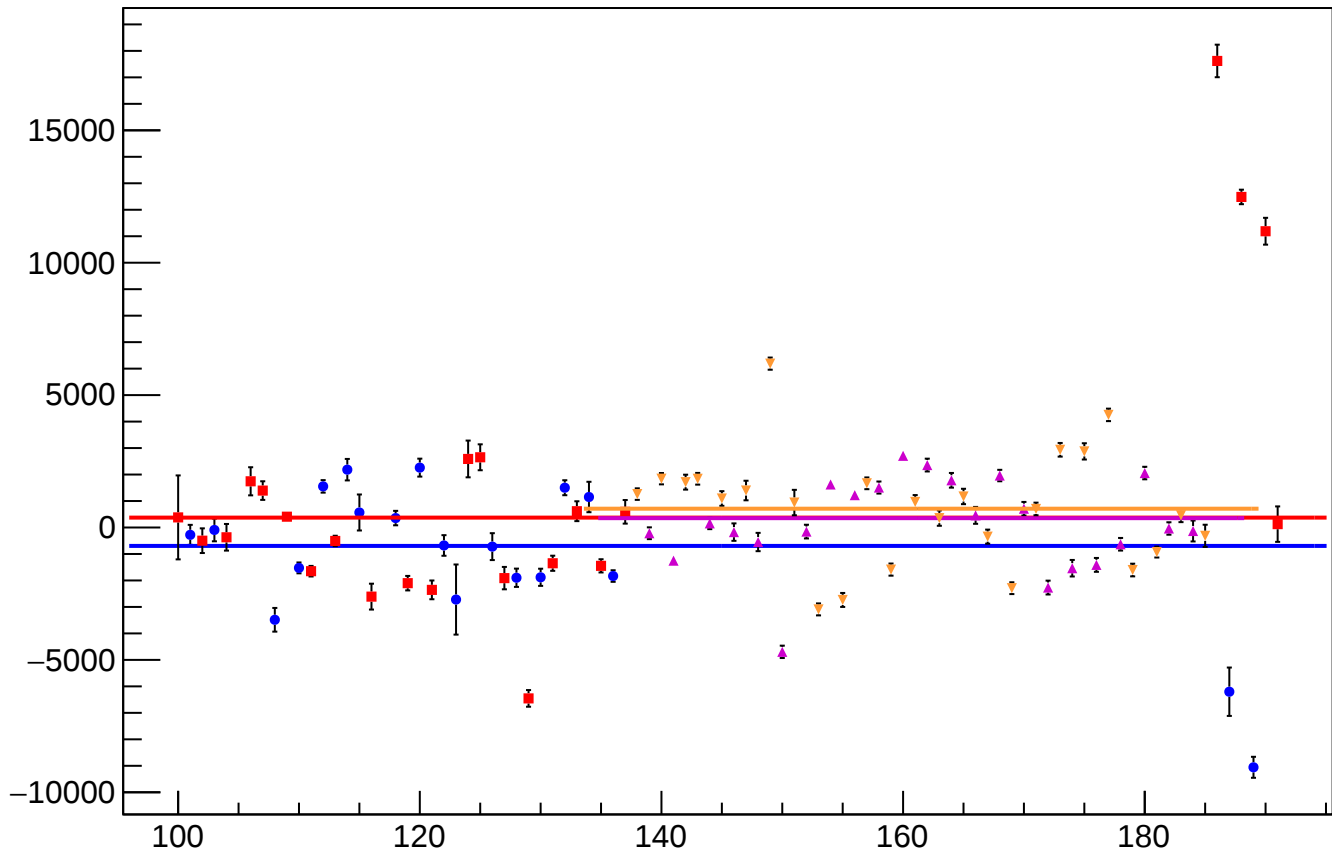
Right: 199.380 $\pm$ 0.037 χ^2/NDF : 3101088.0/41

In: 203.478 $\pm$ 0.030 χ^2/NDF : 2141024.6/41

Out: 208.932 $\pm$ 0.029 χ^2/NDF : 3043110.9/47

All: 206.267 $\pm$ 0.021 χ^2/NDF : 5200930.7/89

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -695.393 ± 78.465 $\chi^2/\text{NDF}: 900.4/18$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 373.479 ± 68.809 $\chi^2/\text{NDF}: 4138.6/22$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

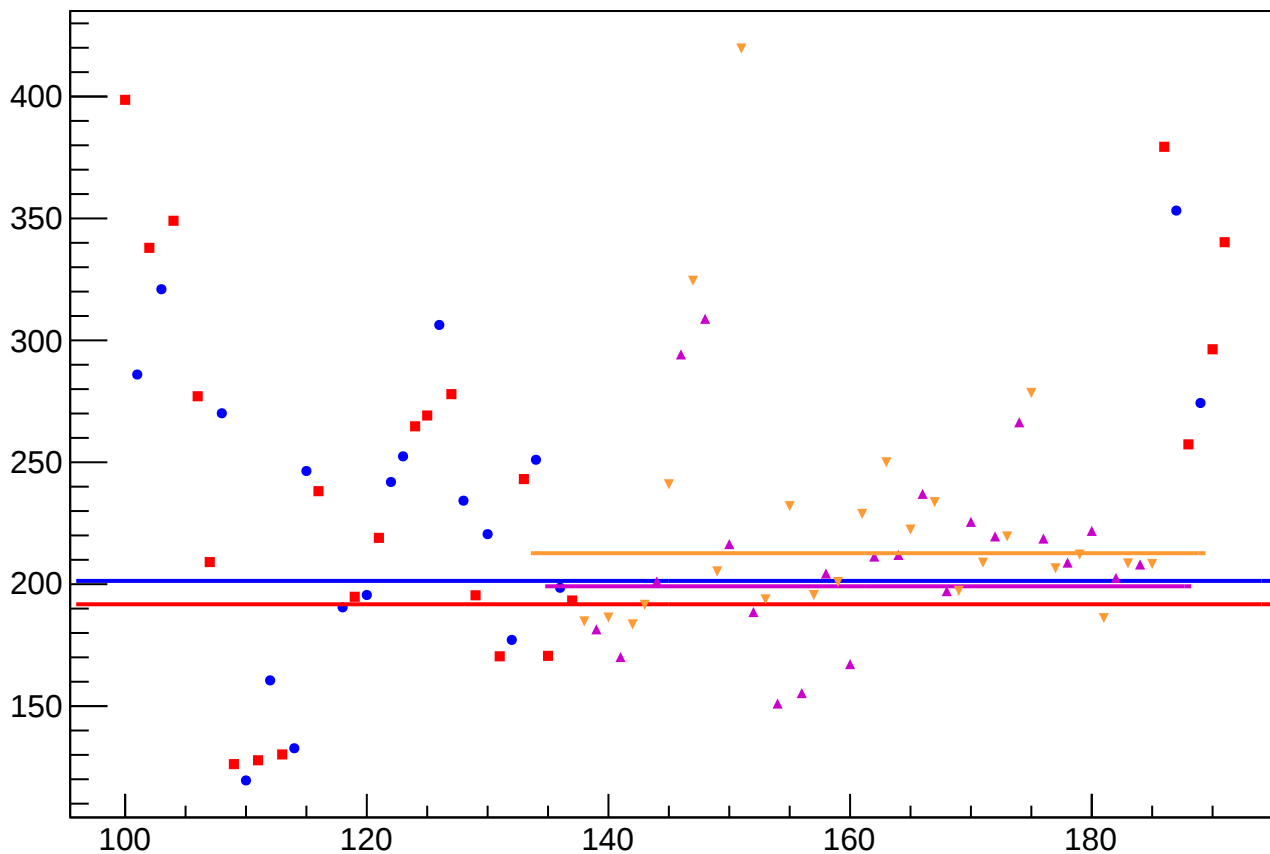
Right: -91.179 ± 51.734 $\chi^2/\text{NDF}: 5143.9/41$

In: 55.723 ± 41.754 $\chi^2/\text{NDF}: 2261.3/41$

Out: 591.590 ± 40.843 $\chi^2/\text{NDF}: 6086.4/47$

All: 329.565 ± 29.197 $\chi^2/\text{NDF}: 8431.9/89$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 201.356 $\pm$ 0.055 χ^2/NDF : 1038294.6/18

Left Out: 212.718 $\pm$ 0.036 χ^2/NDF : 916225.9/24

Right Out: 191.772 $\pm$ 0.049 χ^2/NDF : 1873266.4/22

Left In: 199.142 $\pm$ 0.035 χ^2/NDF : 985932.4/22

Left: 205.736 $\pm$ 0.025 χ^2/NDF : 1975772.3/47

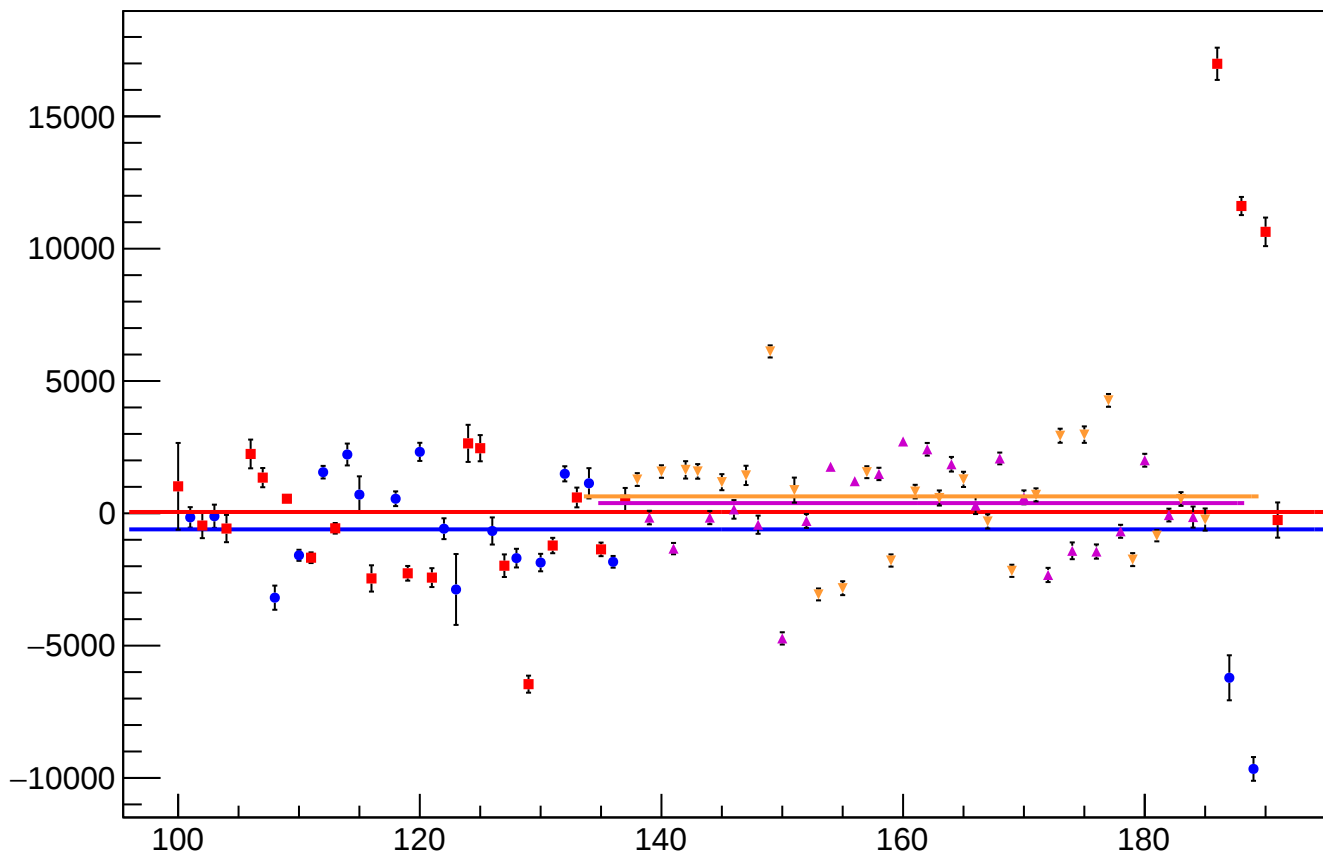
Right: 195.938 $\pm$ 0.037 χ^2/NDF : 2928430.0/41

In: 199.769 $\pm$ 0.030 χ^2/NDF : 2025368.6/41

Out: 205.338 $\pm$ 0.029 χ^2/NDF : 2909532.3/47

All: 202.615 $\pm$ 0.021 χ^2/NDF : 4953084.8/89

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -606.910 ± 79.924 $\chi^2/\text{NDF}: 850.1/18$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: 50.276 ± 70.947 $\chi^2/\text{NDF}: 3080.4/22$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

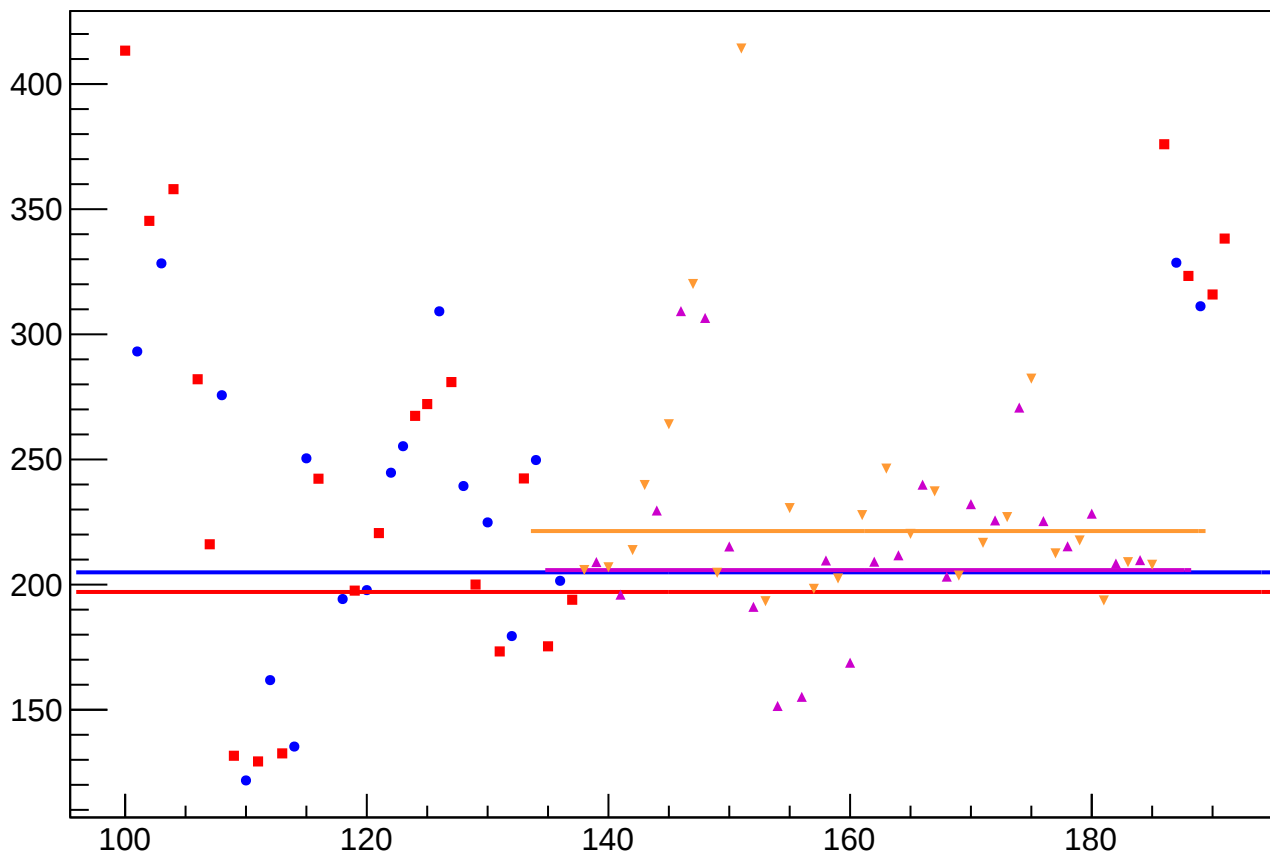
Right: -239.350 ± 53.058 $\chi^2/\text{NDF}: 3968.3/41$

In: 98.920 ± 42.989 $\chi^2/\text{NDF}: 2197.9/41$

Out: 430.263 ± 42.310 $\chi^2/\text{NDF}: 4984.1/47$

All: 267.229 ± 30.155 $\chi^2/\text{NDF}: 7212.2/89$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 204.905 $\pm$ 0.057 χ^2/NDF : 1076837.3/18

Left Out: 221.398 $\pm$ 0.037 χ^2/NDF : 777833.8/24

Right Out: 197.063 $\pm$ 0.050 χ^2/NDF : 2002468.8/22

Left In: 205.803 $\pm$ 0.036 χ^2/NDF : 994903.5/22

Left: 213.343 $\pm$ 0.026 χ^2/NDF : 1863169.5/47

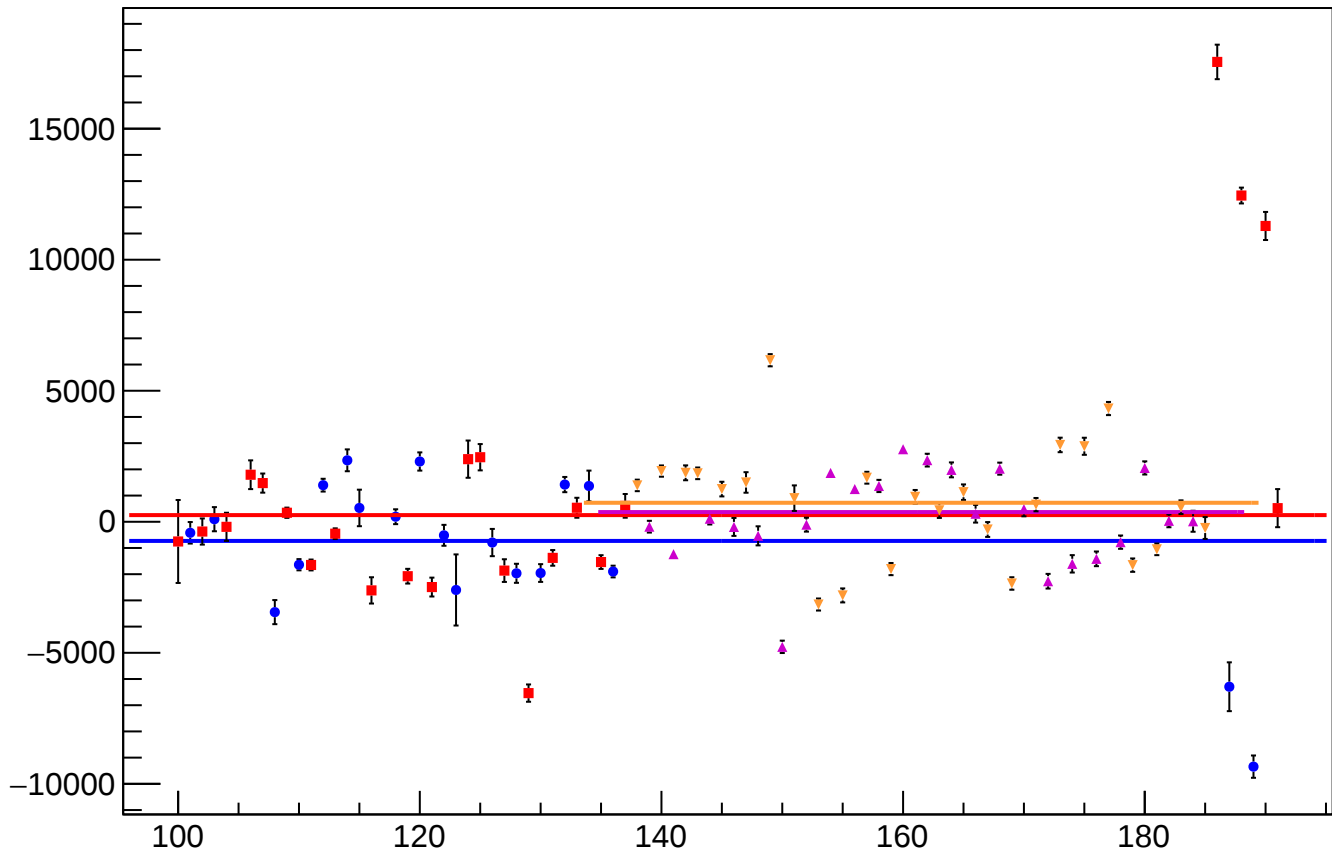
Right: 200.519 $\pm$ 0.038 χ^2/NDF : 3090075.3/41

In: 205.543 $\pm$ 0.030 χ^2/NDF : 2071920.4/41

Out: 212.743 $\pm$ 0.030 χ^2/NDF : 2931927.6/47

All: 209.201 $\pm$ 0.021 χ^2/NDF : 5032344.8/89

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -730.619 $\pm$ 81.456 χ^2/NDF : 843.9/18

Left Out: 725.250 $\pm$ 52.307 χ^2/NDF :1883.1/24

Right Out: 254.608 $\pm$ 71.965 χ^2/NDF : 3576.0/22

Left In: 370.408 $\pm$ 50.884 χ^2/NDF :1223.2/22

Left: 542.938 $\pm$ 36.473 χ^2/NDF : 3129.9/47

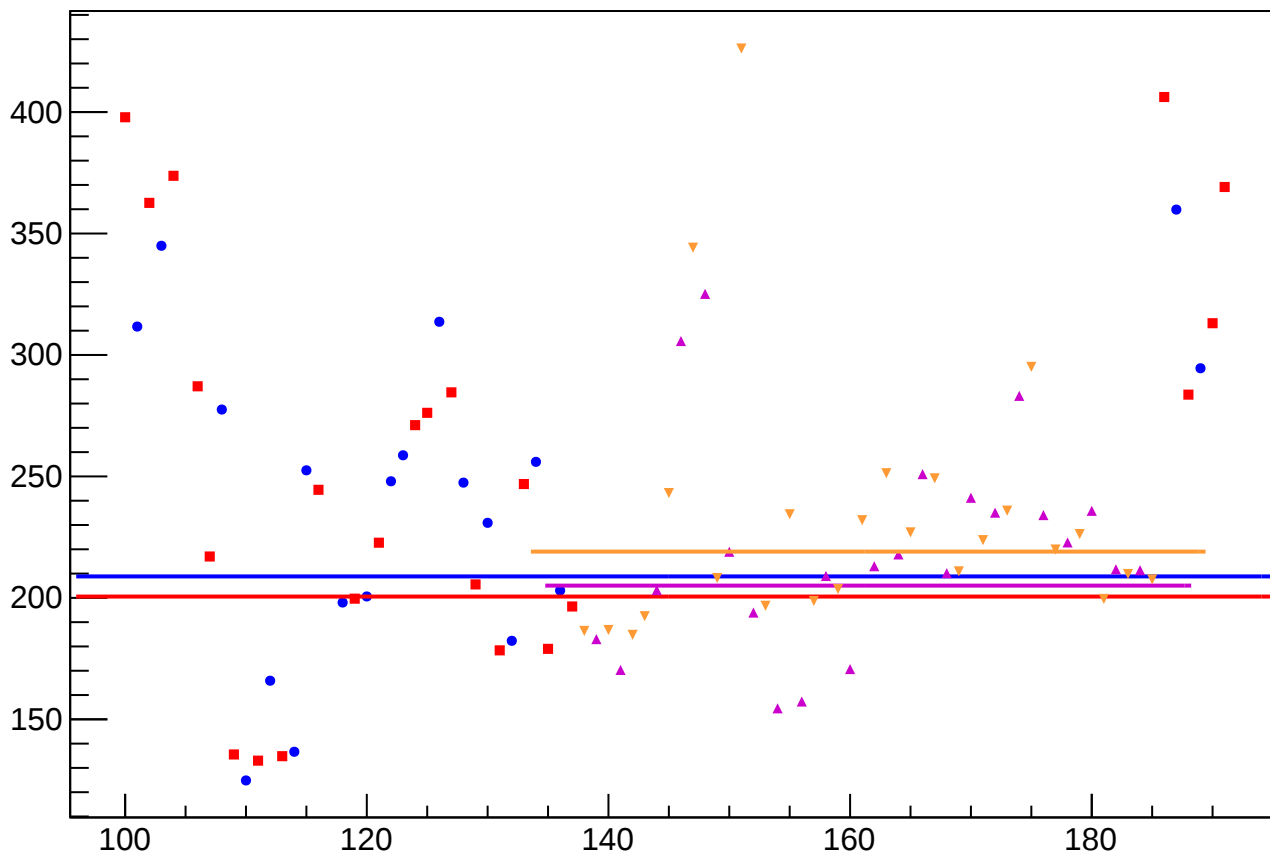
Right: -177.285 $\pm$ 53.932 χ^2/NDF : 4502.0/41

In: 61.356 $\pm$ 43.156 χ^2/NDF :2198.4/41

Out: 562.559 $\pm$ 42.311 χ^2/NDF :5487.1/47

All: 316.911 $\pm$ 30.213 χ^2/NDF : 7754.3/89

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 208.834 ± 0.058 $\chi^2/\text{NDF}: 1084365.0/18$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 200.543 ± 0.051 $\chi^2/\text{NDF}: 1903947.7/22$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

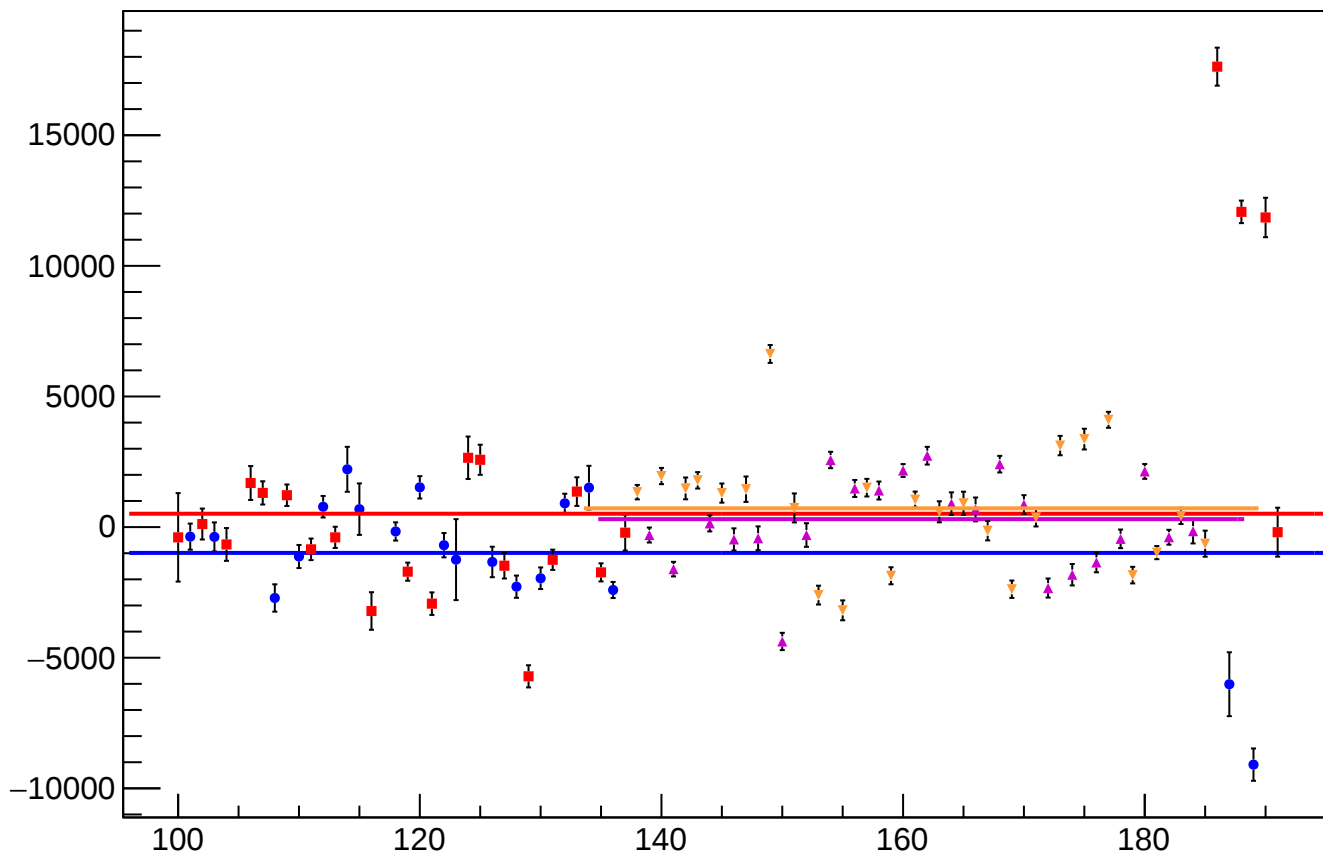
Right: 204.178 ± 0.038 $\chi^2/\text{NDF}: 2999950.4/41$

In: 206.110 ± 0.031 $\chi^2/\text{NDF}: 2231672.6/41$

Out: 212.652 ± 0.030 $\chi^2/\text{NDF}: 2966046.6/47$

All: 209.445 ± 0.021 $\chi^2/\text{NDF}: 5221152.1/89$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -987.760+/-111.824 χ^2/NDF : 349.5/18

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

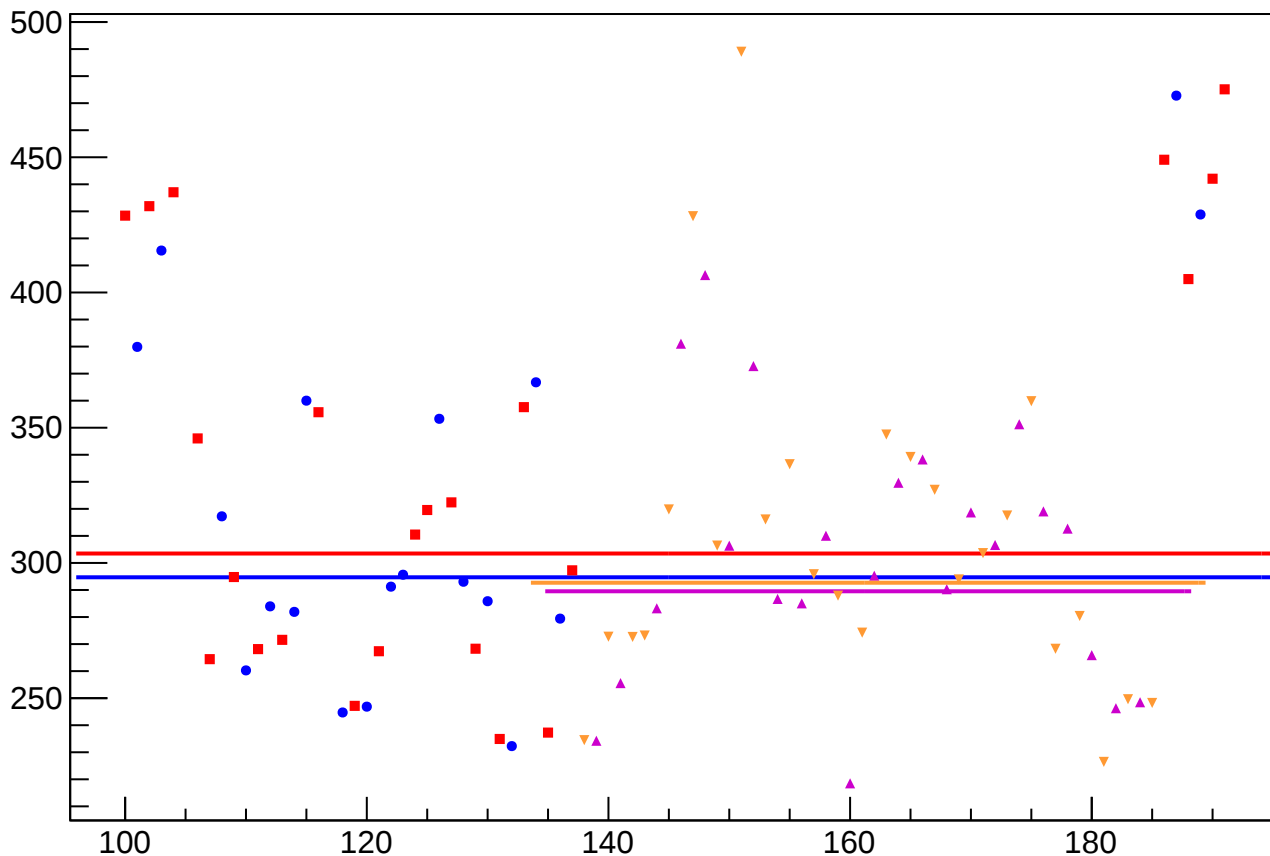
Right: -187.312+/-76.352 χ^2/NDF : 2423.3/41

In: -66.703+/-59.913 χ^2/NDF :1088.2/41

Out: 655.124+/-57.929 χ^2/NDF :2999.1/47

All: 306.363+/-41.646 χ^2/NDF : 4162.3/89

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 294.695 $\pm$ 0.079 χ^2/NDF : 480896.6/18

Left Out: 292.686 $\pm$ 0.049 χ^2/NDF : 925193.6/24

Right Out: 303.486 $\pm$ 0.074 χ^2/NDF : 824752.1/22

Left In: 289.522 $\pm$ 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2/NDF : 1705121.5/47

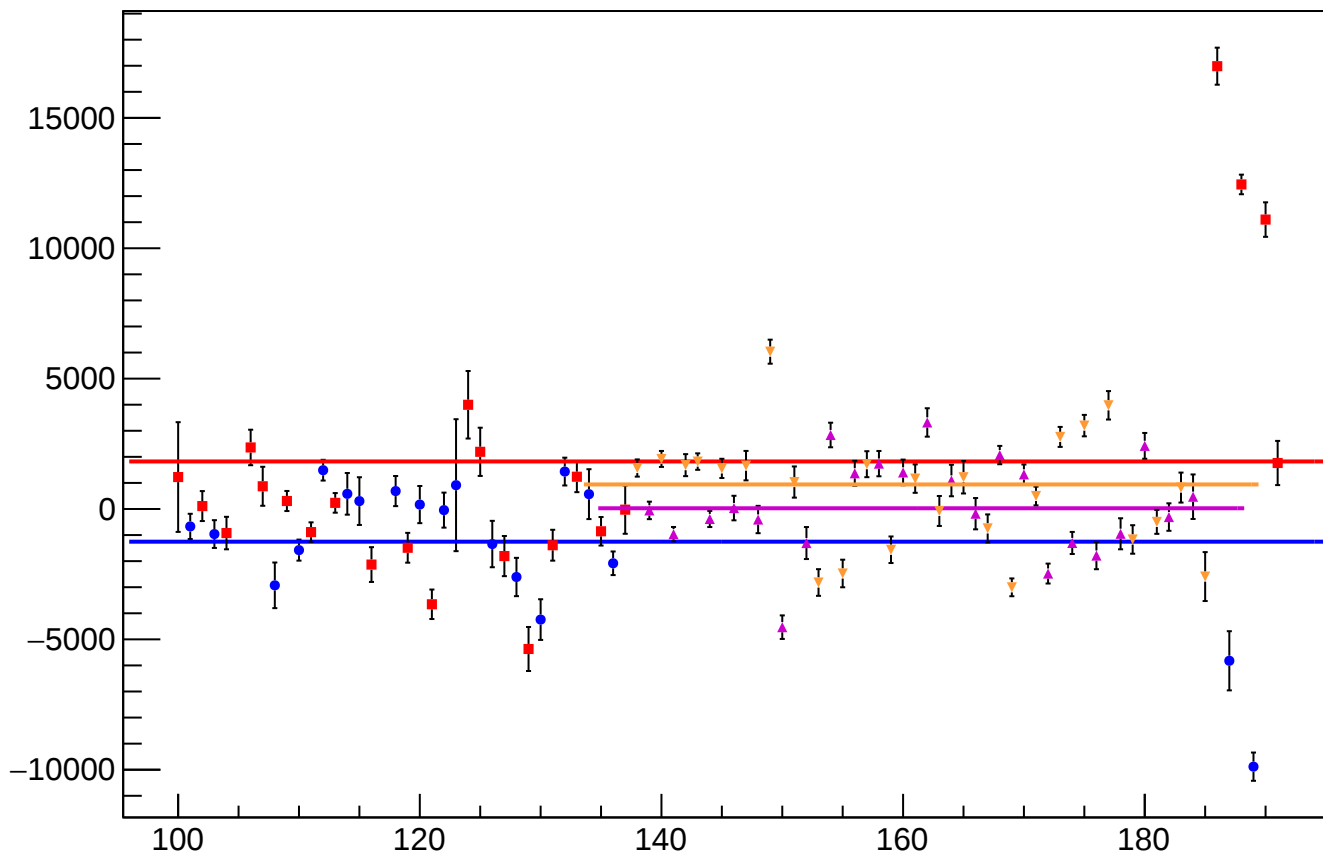
Right: 299.388 $\pm$ 0.054 χ^2/NDF : 1312246.2/41

In: 291.007 $\pm$ 0.042 χ^2/NDF : 1261849.7/41

Out: 296.004 $\pm$ 0.041 χ^2/NDF : 1764742.7/47

All: 293.590 $\pm$ 0.029 χ^2/NDF : 3033784.5/89

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -1253.875 ± 141.277 $\chi^2/\text{NDF}: 401.3/18$

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 $\chi^2/\text{NDF}: 957.8/47$

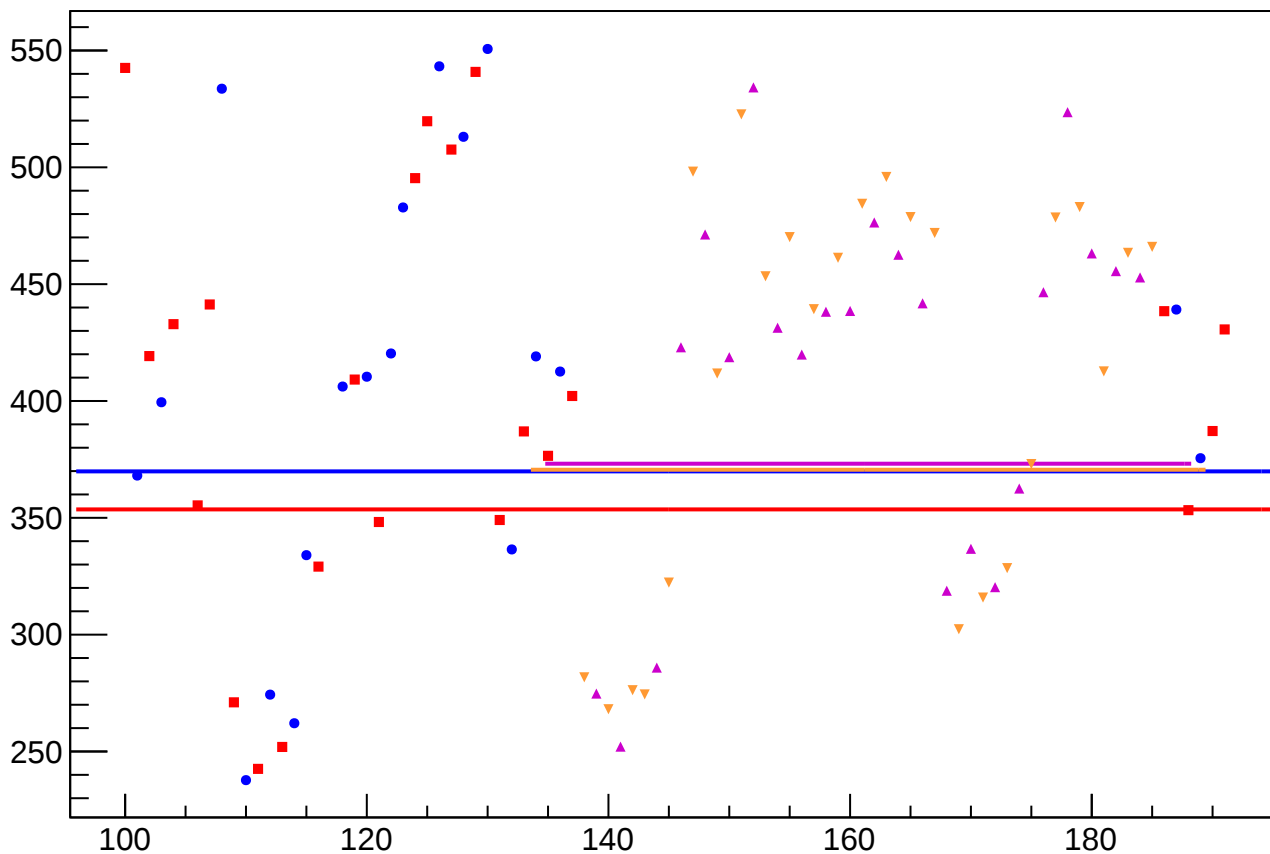
Right: 506.580 ± 92.411 $\chi^2/\text{NDF}: 2559.6/41$

In: -355.818 ± 77.289 $\chi^2/\text{NDF}: 821.5/41$

Out: 1247.751 ± 71.999 $\chi^2/\text{NDF}: 2465.4/47$

All: 502.714 ± 52.682 $\chi^2/\text{NDF}: 3517.4/89$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 369.877 $\pm$ 0.100 χ^2/NDF : 773318.7/18

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

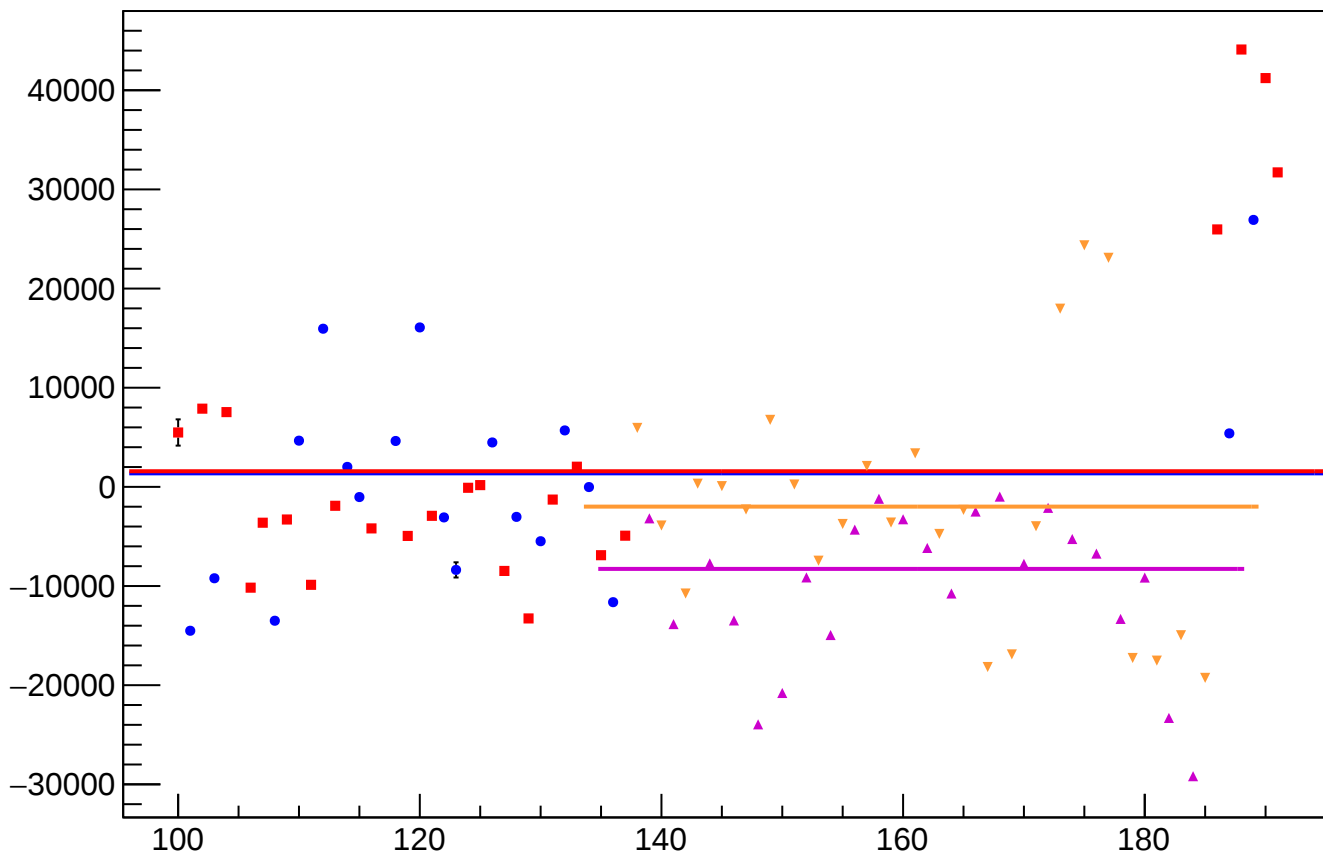
Right: 360.567 $\pm$ 0.065 χ^2/NDF : 1659506.4/41

In: 372.178 $\pm$ 0.055 χ^2/NDF :2410319.8/41

Out: 364.684 $\pm$ 0.051 χ^2/NDF :2774326.8/47

All: 368.166 $\pm$ 0.037 χ^2/NDF : 5194713.9/89

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 1363.967 ± 53.358 $\chi^2/\text{NDF}: 40765.8/18$

Left Out: -1991.788 ± 42.427 $\chi^2/\text{NDF}: 63766.6/24$

Right Out: 1576.008 ± 48.538 $\chi^2/\text{NDF}: 105266.5/22$

Left In: -8273.228 ± 44.301 $\chi^2/\text{NDF}: 22870.2/22$

Left: -4996.810 ± 30.641 $\chi^2/\text{NDF}: 97123.2/47$

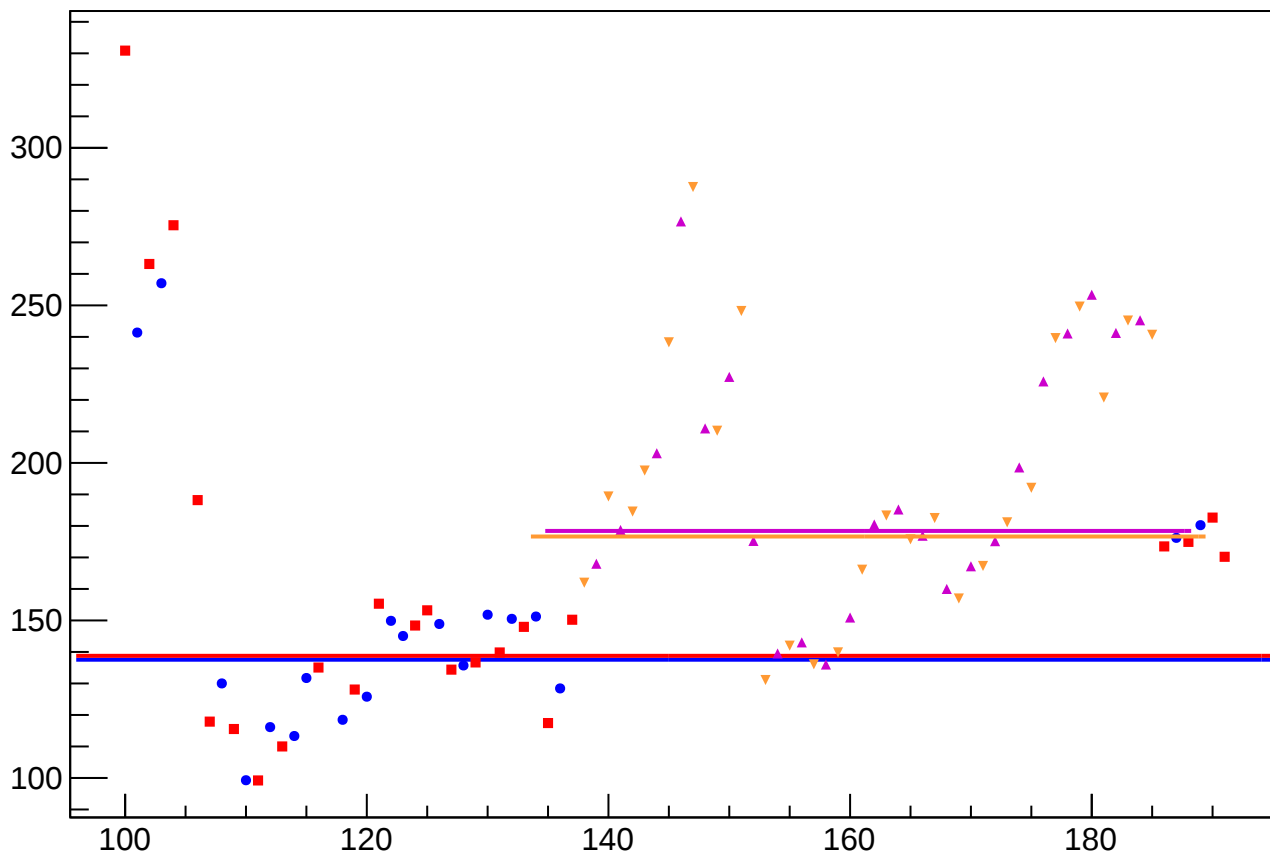
Right: 1479.994 ± 35.905 $\chi^2/\text{NDF}: 146040.9/41$

In: -4340.735 ± 34.084 $\chi^2/\text{NDF}: 82946.2/41$

Out: -446.521 ± 31.944 $\chi^2/\text{NDF}: 172095.9/47$

All: -2267.510 ± 23.308 $\chi^2/\text{NDF}: 261991.6/8$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 137.539+/-0.038 χ^2/NDF : 729283.6/18

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

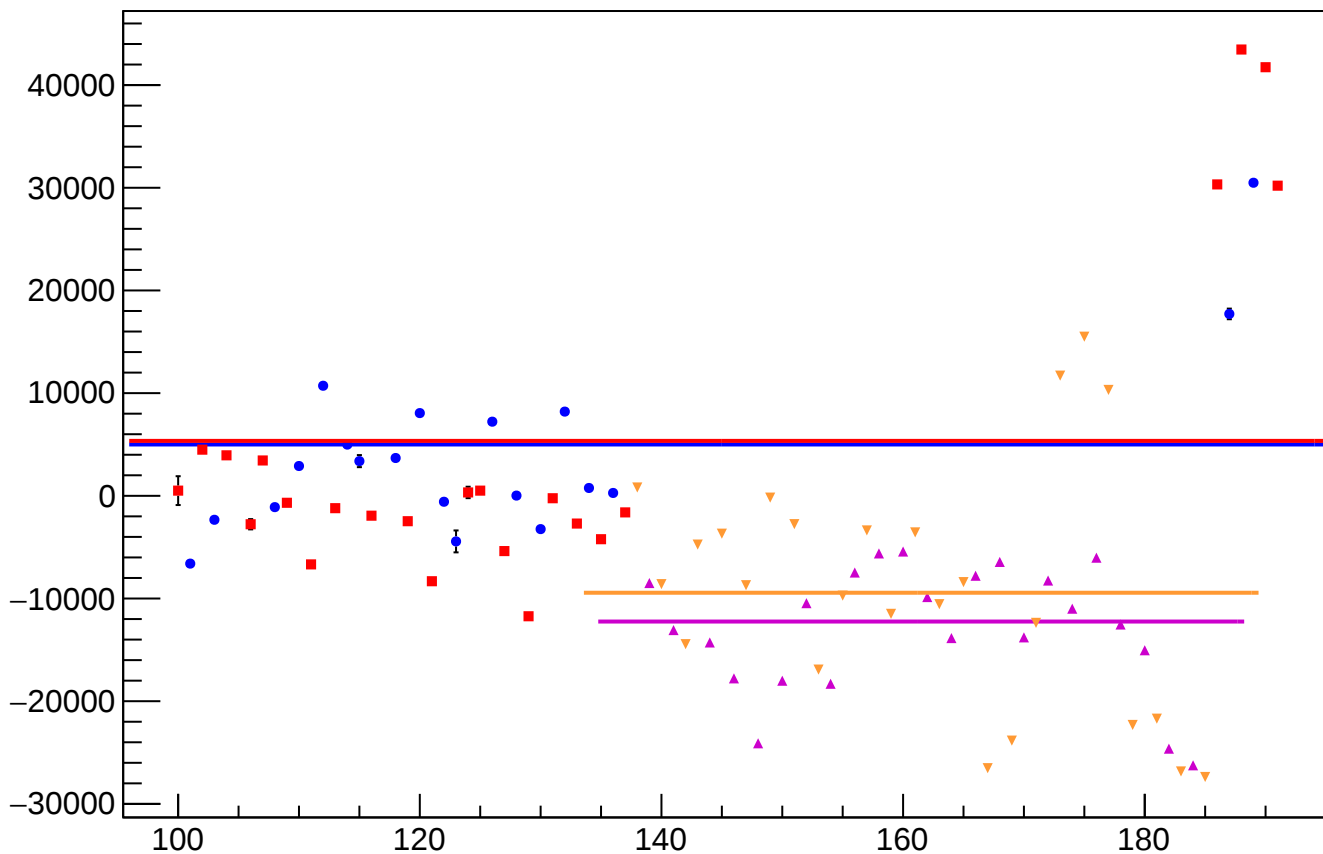
Right: 138.214+/-0.025 χ^2/NDF : 1748783.2/41

In: 161.734+/-0.024 χ^2/NDF :2717753.8/41

Out: 160.239+/-0.023 χ^2/NDF :3260075.1/47

All: 160.938+/-0.016 χ^2/NDF : 5979877.9/89

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 5000.320+/-67.782 χ^2/NDF : 15402.1/18

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

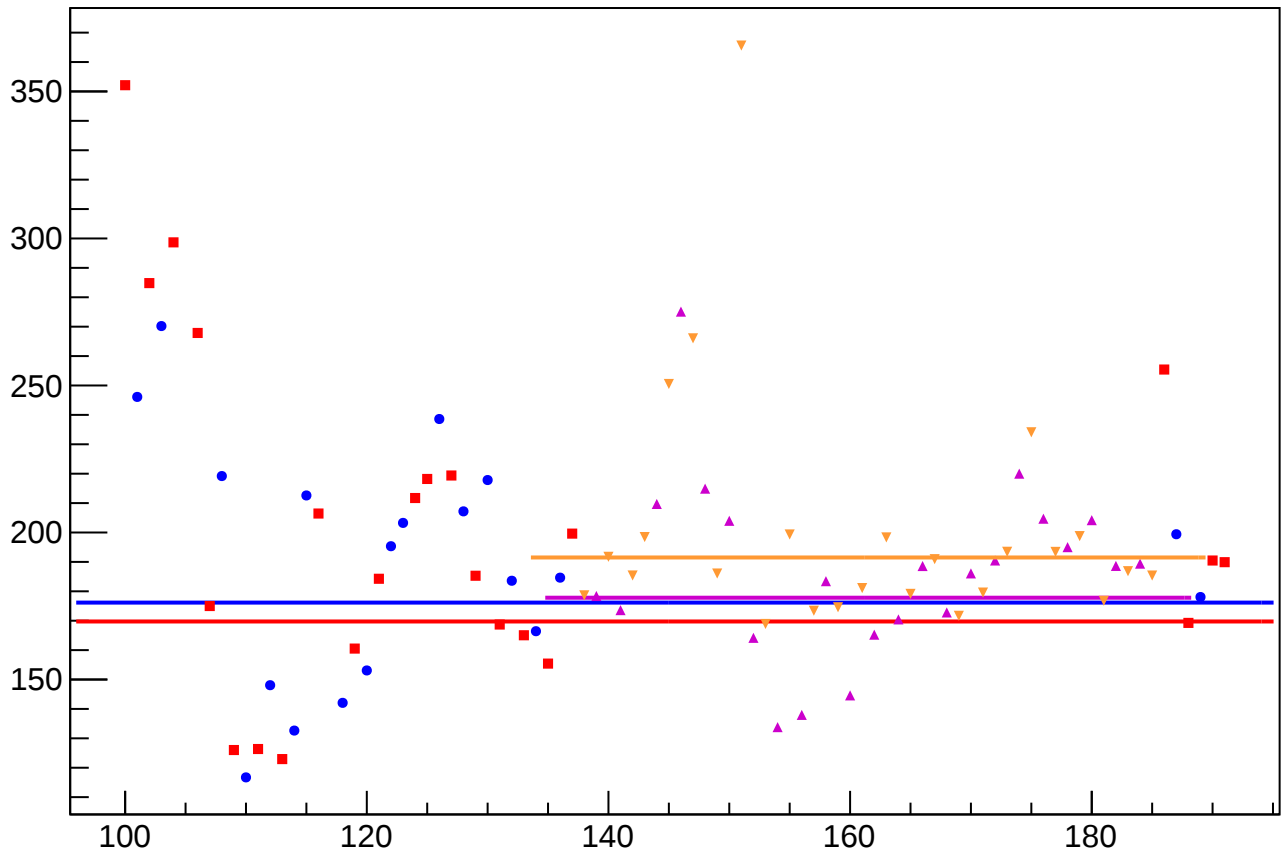
Right: 5199.175+/-44.599 χ^2/NDF : 99095.4/41

In: -7139.638+/-36.873 χ^2/NDF : 77577.9/41

Out: -3943.354+/-36.098 χ^2/NDF : 185085.0/47

All: -5507.558+/-25.795 χ^2/NDF : 266499.6/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.161+/-0.048 χ^2/NDF : 692130.0/18

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

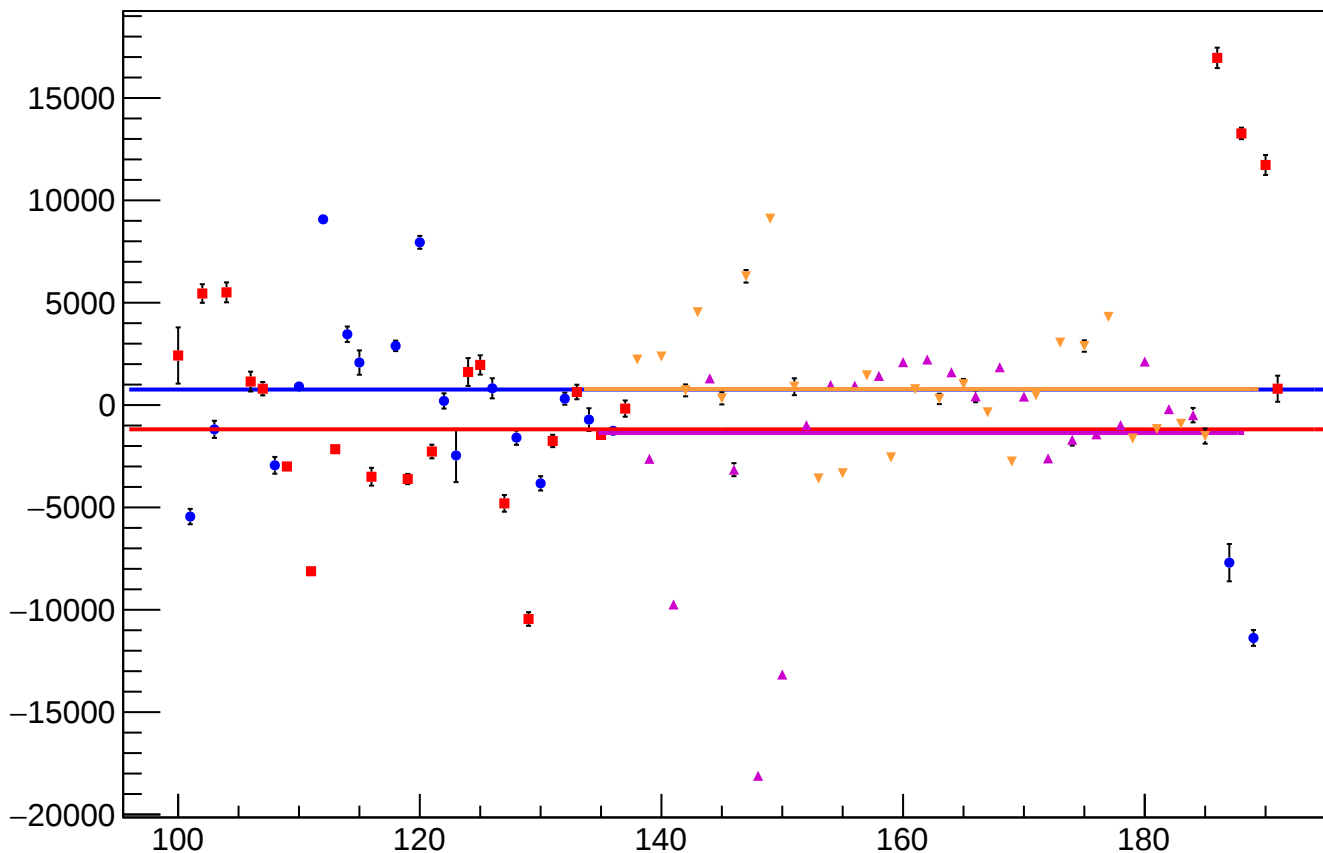
Right: 172.519+/-0.032 χ^2/NDF : 1733205.7/41

In: 177.330+/-0.026 χ^2/NDF : 1555469.9/41

Out: 183.420+/-0.026 χ^2/NDF : 1927944.8/47

All: 180.440+/-0.018 χ^2/NDF : 3511272.9/89

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 759.226+/-75.568 χ^2/NDF : 3765.5/18

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

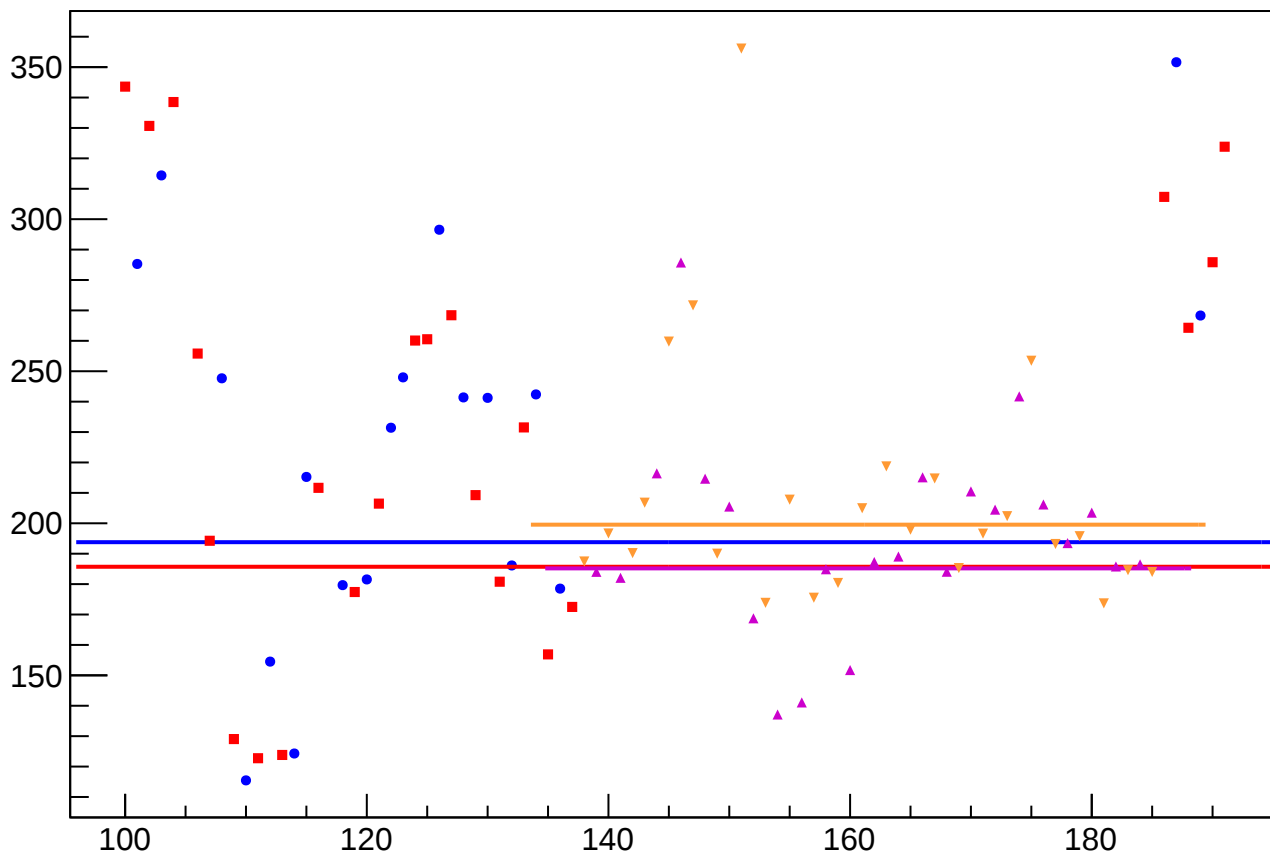
Right: -339.012+/-49.846 χ^2/NDF : 11802.7/41

In: -792.784+/-39.172 χ^2/NDF : 15975.2/41

Out: 114.582+/-38.594 χ^2/NDF : 12504.6/47

All: -332.357+/-27.492 χ^2/NDF : 28752.0/89

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.788 ± 0.053 $\chi^2/\text{NDF}: 1116703.6/18$

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 $\chi^2/\text{NDF}: 1707122.0/47$

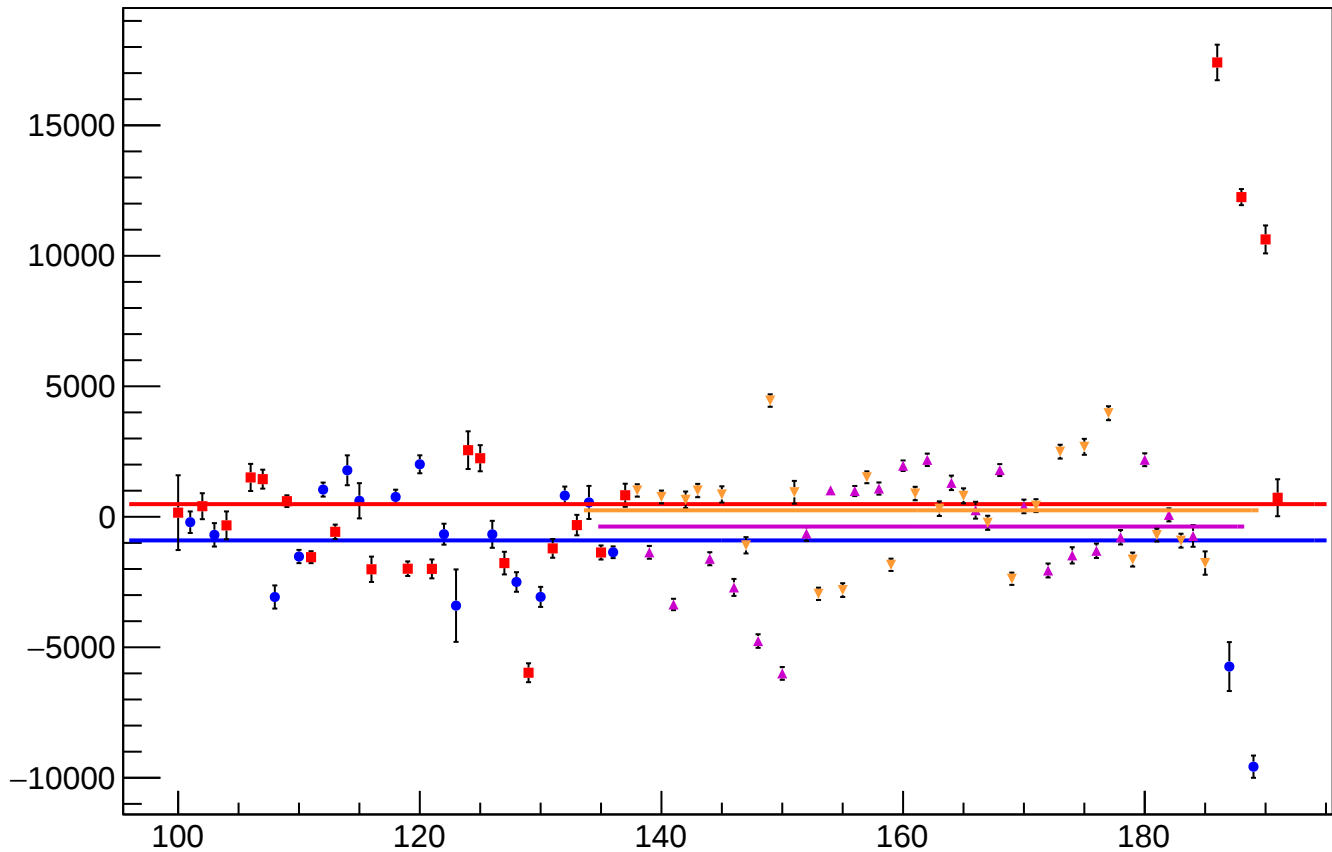
Right: 189.223 ± 0.035 $\chi^2/\text{NDF}: 2923424.3/41$

In: 187.486 ± 0.028 $\chi^2/\text{NDF}: 2018474.8/41$

Out: 194.860 ± 0.027 $\chi^2/\text{NDF}: 2580762.2/47$

All: 191.228 ± 0.019 $\chi^2/\text{NDF}: 4635197.5/89$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -904.794 ± 86.550 χ^2/NDF : 748.2/18

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

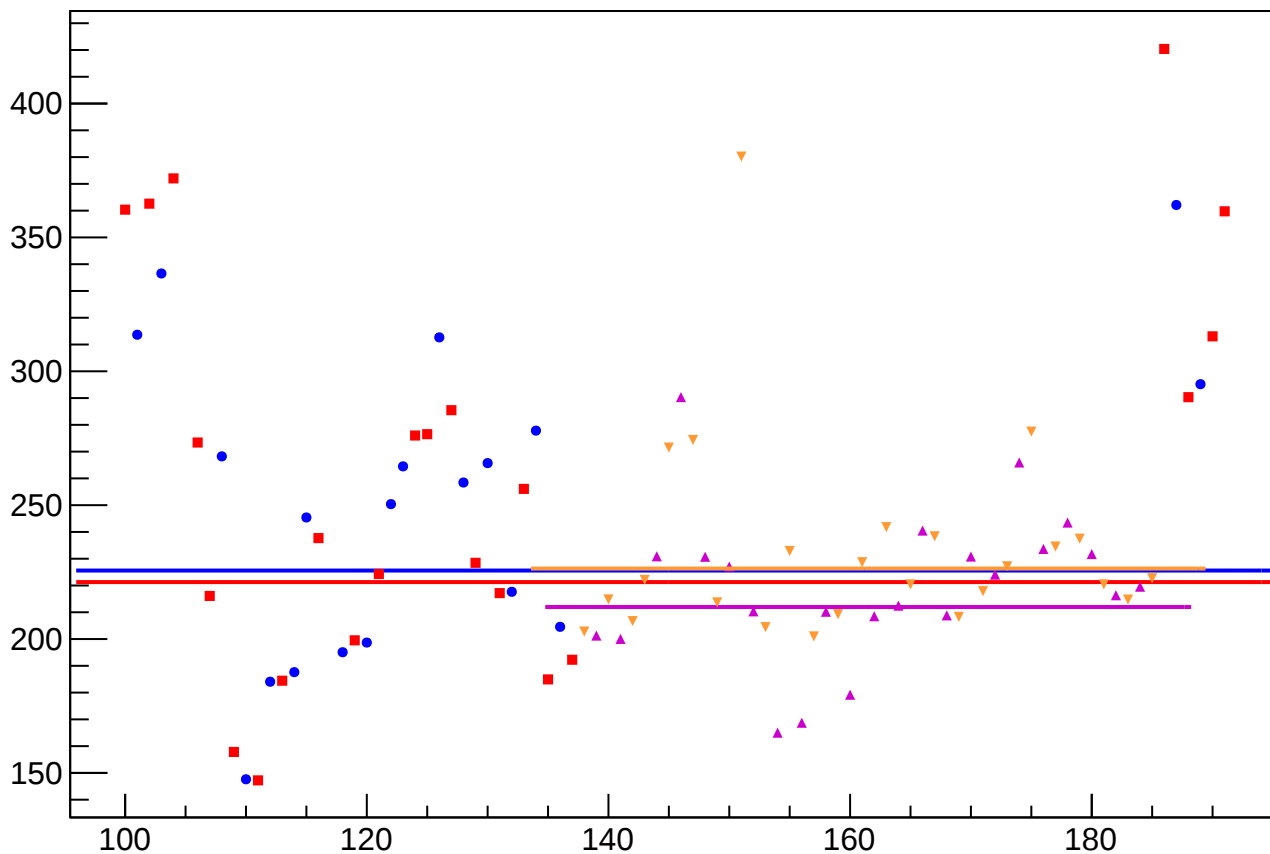
Right: -134.345 ± 57.780 χ^2/NDF : 4020.6/41

In: -515.066 ± 44.605 χ^2/NDF : 2576.8/41

Out: 324.382 ± 44.078 χ^2/NDF : 4490.9/47

All: -90.361 ± 31.353 χ^2/NDF : 7246.9/89

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 225.585 ± 0.061 $\chi^2/\text{NDF}: 745846.6/18$

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 $\chi^2/\text{NDF}: 1179246.7/47$

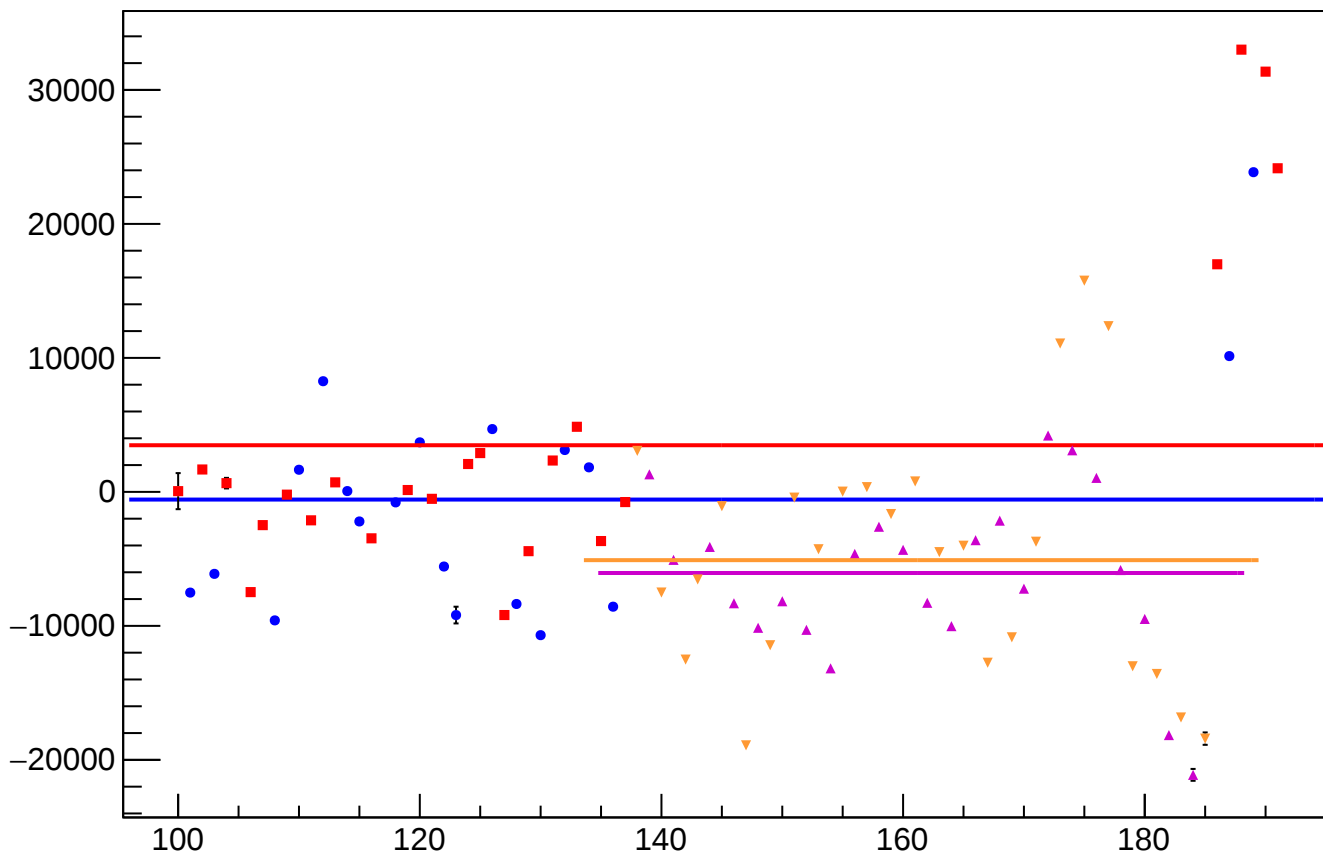
Right: 223.194 ± 0.041 $\chi^2/\text{NDF}: 2075758.2/41$

In: 215.586 ± 0.032 $\chi^2/\text{NDF}: 1366537.0/41$

Out: 224.693 ± 0.031 $\chi^2/\text{NDF}: 1853936.5/47$

All: 220.194 ± 0.022 $\chi^2/\text{NDF}: 3262649.9/89$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -573.110+/-45.816 χ^2/NDF : 32640.7/18

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

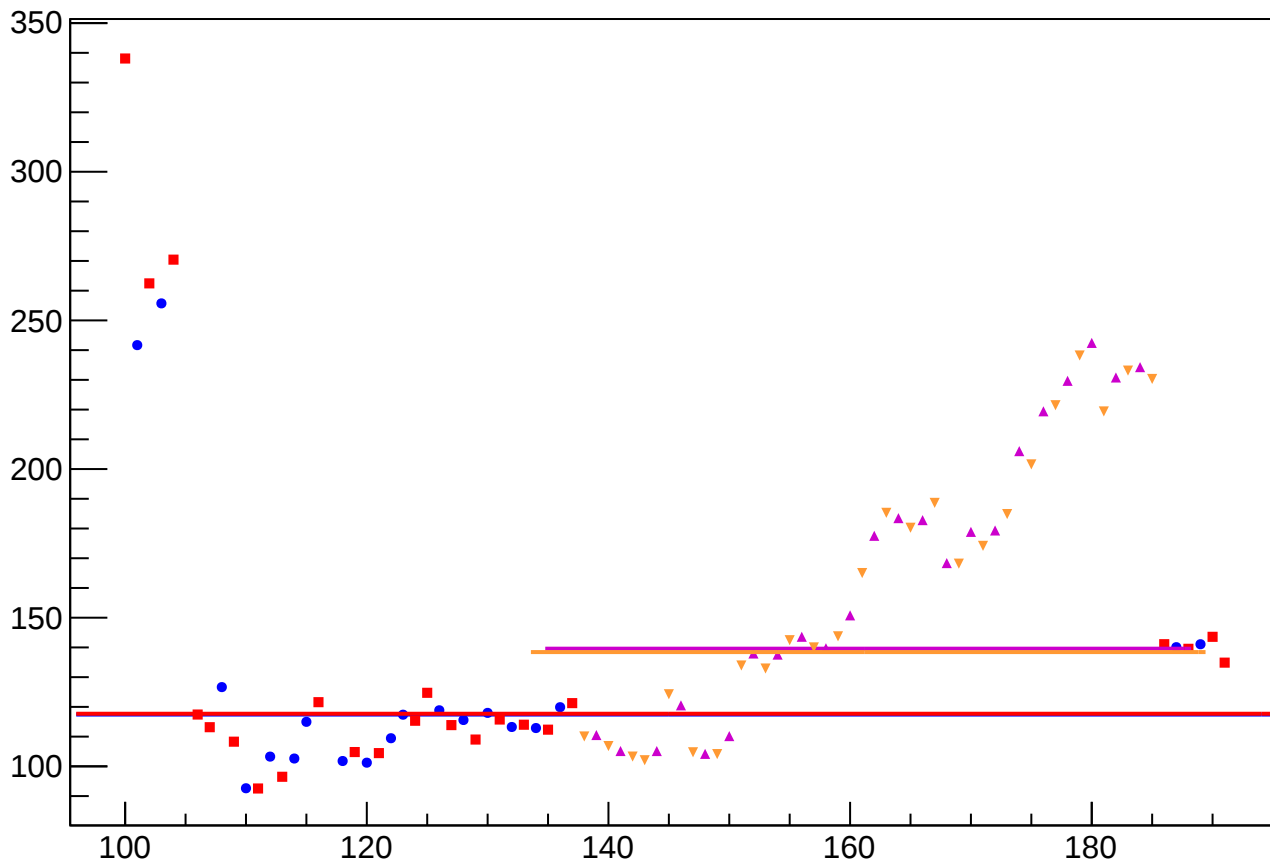
Right: 1669.706+/-30.626 χ^2/NDF : 116458.0/41

In: -4034.078+/-27.812 χ^2/NDF : 59266.8/41

Out: -1654.592+/-26.081 χ^2/NDF : 159859.4/47

All: -2767.984+/-19.025 χ^2/NDF : 223021.1/8

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 117.422 $\pm$ 0.032 χ^2 /NDF: 780564.1/18

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 117.693 $\pm$ 0.029 χ^2 /NDF: 908504.4/22

Left In: 139.578 $\pm$ 0.025 χ^2 /NDF: 2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2 /NDF: 4964199.7/47

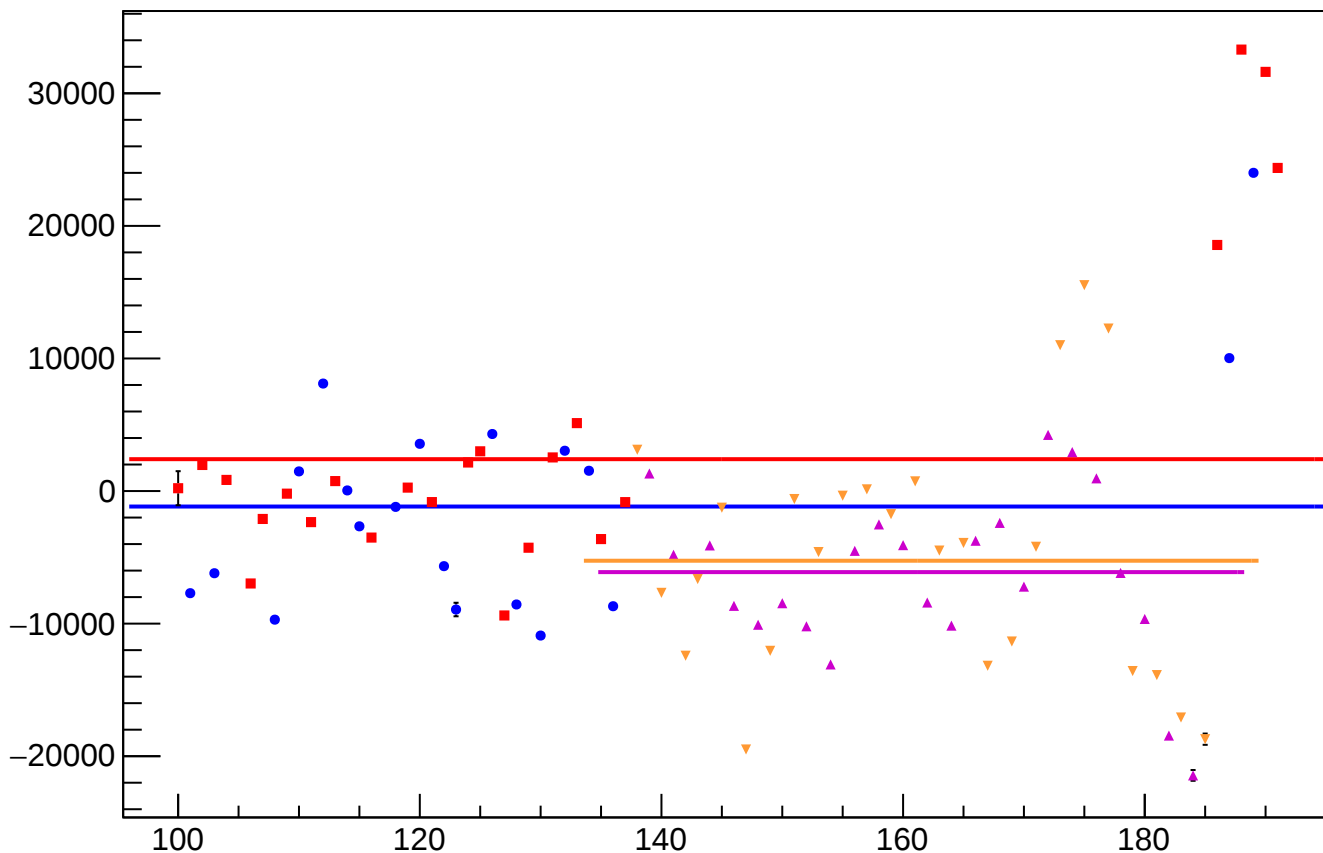
Right: 117.572 $\pm$ 0.022 χ^2 /NDF: 1689107.3/41

In: 131.413 $\pm$ 0.020 χ^2 /NDF: 3489586.5/41

Out: 130.114 $\pm$ 0.018 χ^2 /NDF: 3761845.4/47

All: 130.722 $\pm$ 0.013 χ^2 /NDF: 7253753.7/89

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -1168.164+/-39.097 $\chi^2/\text{NDF}: 38380.5/18$

Left Out: -5255.652+/-30.622 $\chi^2/\text{NDF}: 64324.6/24$

Right Out: 2404.179+/-35.641 $\chi^2/\text{NDF}: 87939.3/22$

Left In: -6114.901+/-32.126 $\chi^2/\text{NDF}: 21260.9/22$

Left: -5664.697+/-22.166 $\chi^2/\text{NDF}: 85960.3/47$

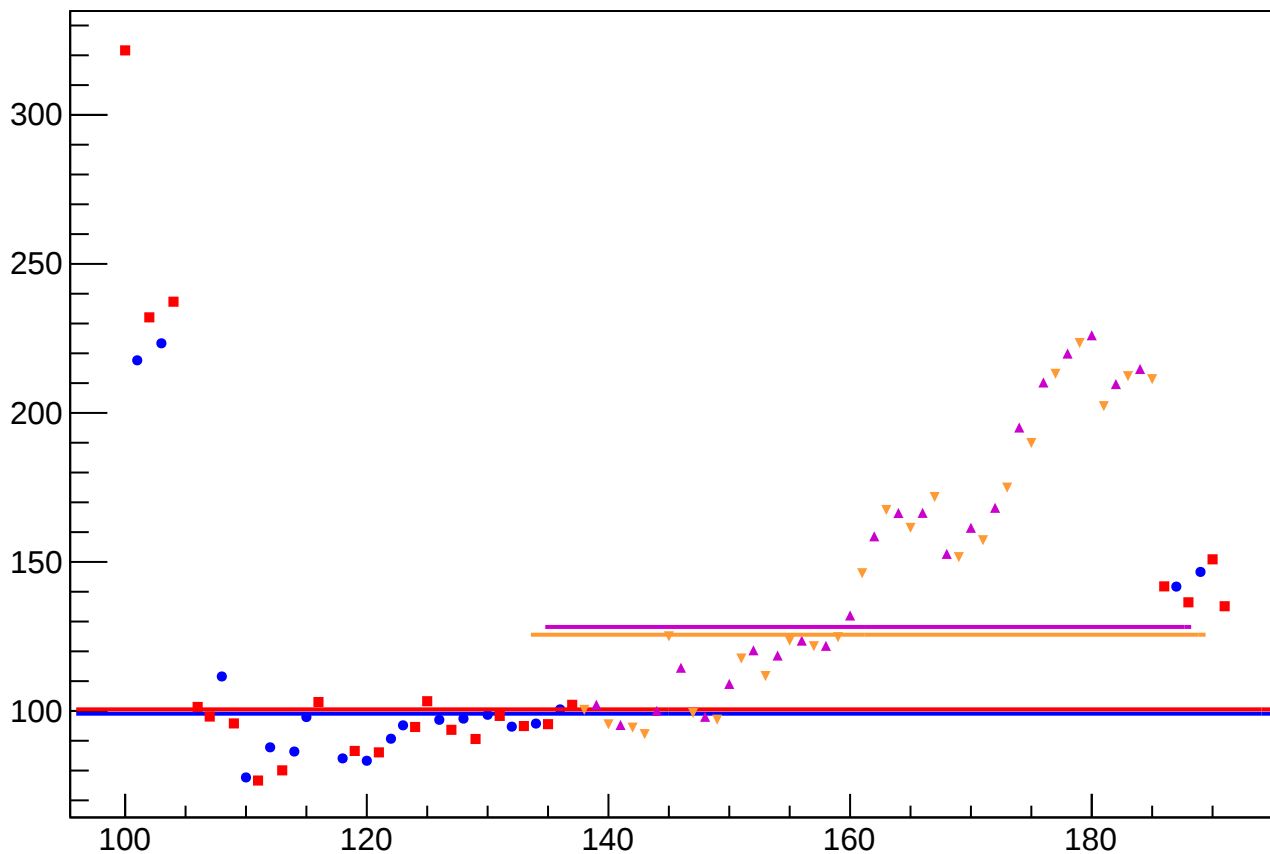
Right: 782.819+/-26.339 $\chi^2/\text{NDF}: 130879.4/41$

In: -4121.119+/-24.821 $\chi^2/\text{NDF}: 69197.8/41$

Out: -2002.654+/-23.227 $\chi^2/\text{NDF}: 178836.7/47$

All: -2991.664+/-16.959 $\chi^2/\text{NDF}: 251918.2/8$

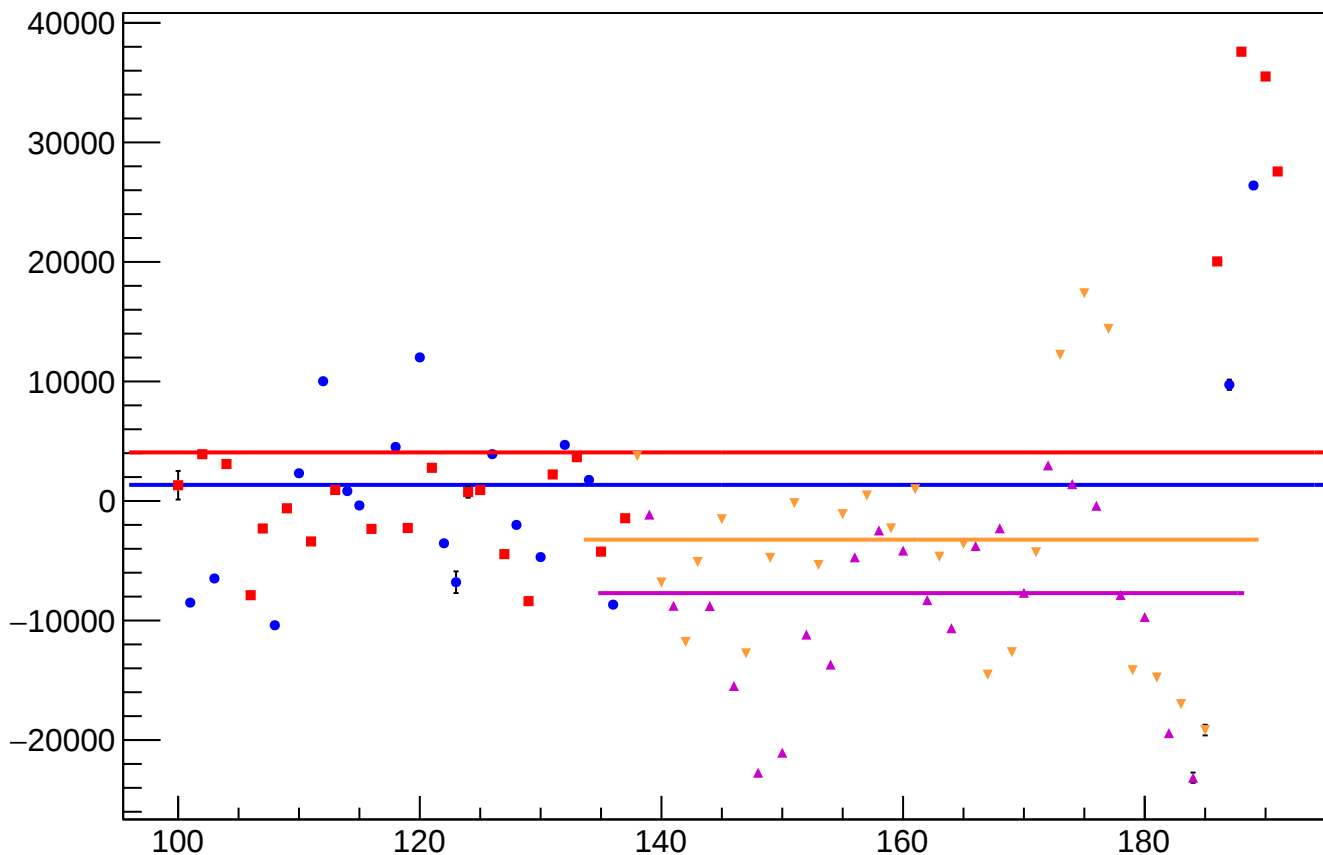
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 99.084 ± 0.028 $\chi^2/\text{NDF}: 950008.4/18$
 Left Out: 125.577 ± 0.022 $\chi^2/\text{NDF}: 2595752.6/24$
 Right Out: 100.535 ± 0.025 $\chi^2/\text{NDF}: 1196275.4/22$
 Left In: 128.184 ± 0.023 $\chi^2/\text{NDF}: 2332977.5/22$

Left: 126.818 ± 0.016 $\chi^2/\text{NDF}: 4935627.6/47$
 Right: 99.877 ± 0.019 $\chi^2/\text{NDF}: 2147789.3/41$
 In: 116.455 ± 0.018 $\chi^2/\text{NDF}: 3944389.6/41$
 Out: 114.942 ± 0.016 $\chi^2/\text{NDF}: 4360050.8/47$
 All: 115.649 ± 0.012 $\chi^2/\text{NDF}: 8308400.3/89$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 1347.541 $\pm$ 53.016 χ^2/NDF : 27730.9/18

Left Out: -3234.922 $\pm$ 40.583 χ^2/NDF : 36739.9/24

Right Out: 4064.203 $\pm$ 47.947 χ^2/NDF : 73562.3/22

Left In: -7707.068 $\pm$ 42.990 χ^2/NDF : 21268.3/22

Left: -5342.284 $\pm$ 29.511 χ^2/NDF : 63730.6/47

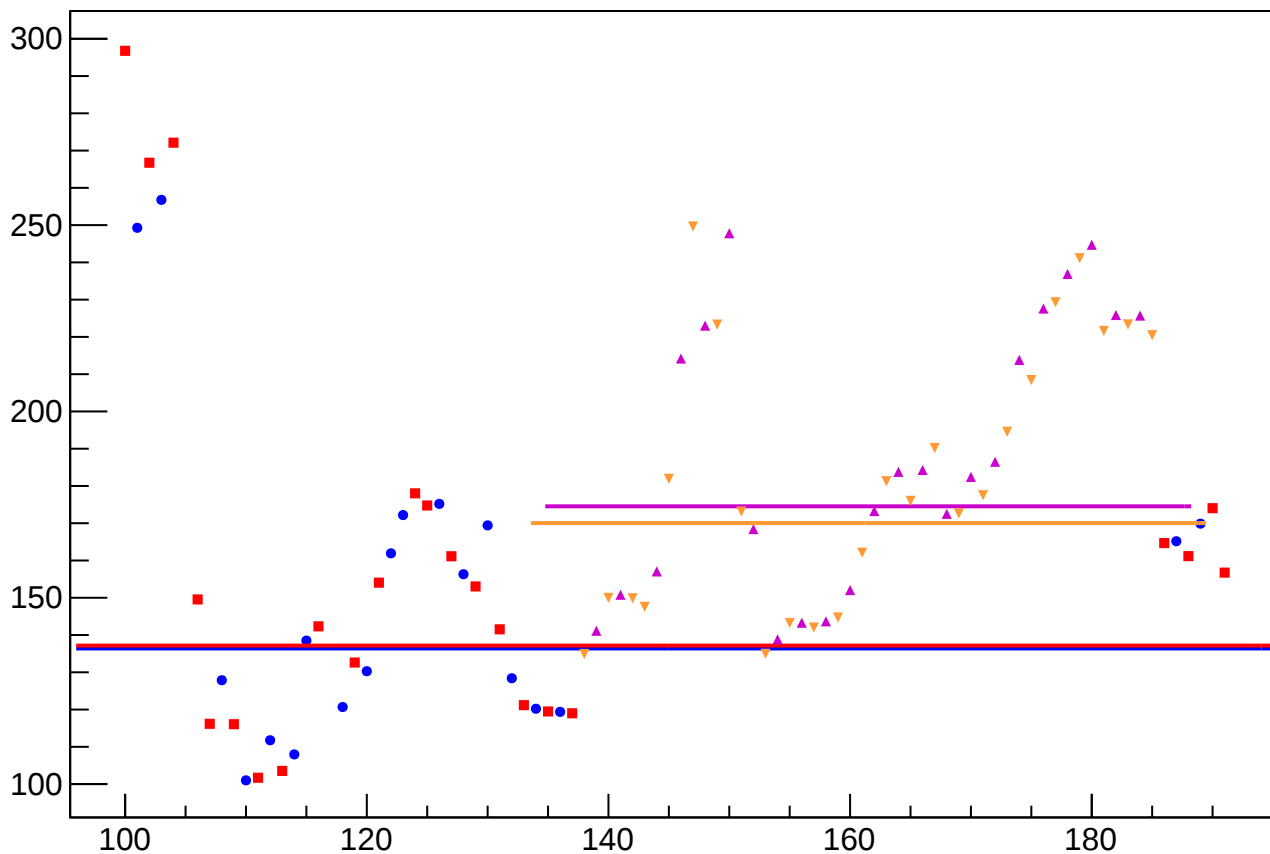
Right: 2841.943 $\pm$ 35.561 χ^2/NDF : 102737.6/41

In: -4115.192 $\pm$ 33.392 χ^2/NDF : 66597.0/41

Out: -188.346 $\pm$ 30.976 χ^2/NDF : 123804.3/47

All: -2004.631 $\pm$ 22.709 χ^2/NDF : 197834.5/8

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 136.396 ± 0.037 χ^2/NDF : 836158.8/18

Left Out: 170.050 ± 0.029 χ^2/NDF : 1240866.9/24

Right Out: 137.165 ± 0.034 χ^2/NDF : 982777.1/22

Left In: 174.539 ± 0.030 χ^2/NDF : 1210071.2/22

Left: 172.165 ± 0.021 χ^2/NDF : 2462472.2/47

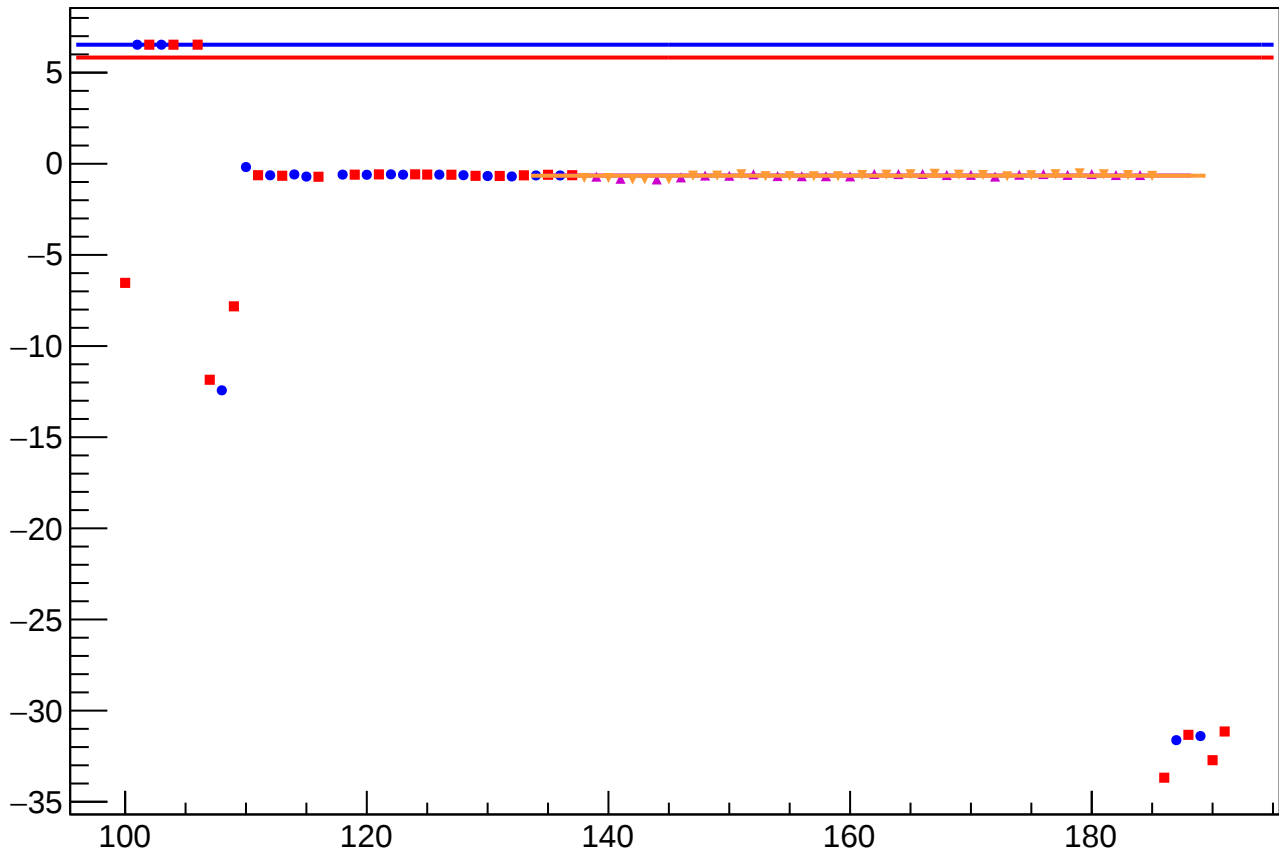
Right: 136.819 ± 0.025 χ^2/NDF : 1819167.6/41

In: 159.408 ± 0.024 χ^2/NDF : 2670810.5/41

Out: 156.324 ± 0.022 χ^2/NDF : 2771757.4/47

All: 157.750 ± 0.016 χ^2/NDF : 5451737.5/89

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127627934831.1/18

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

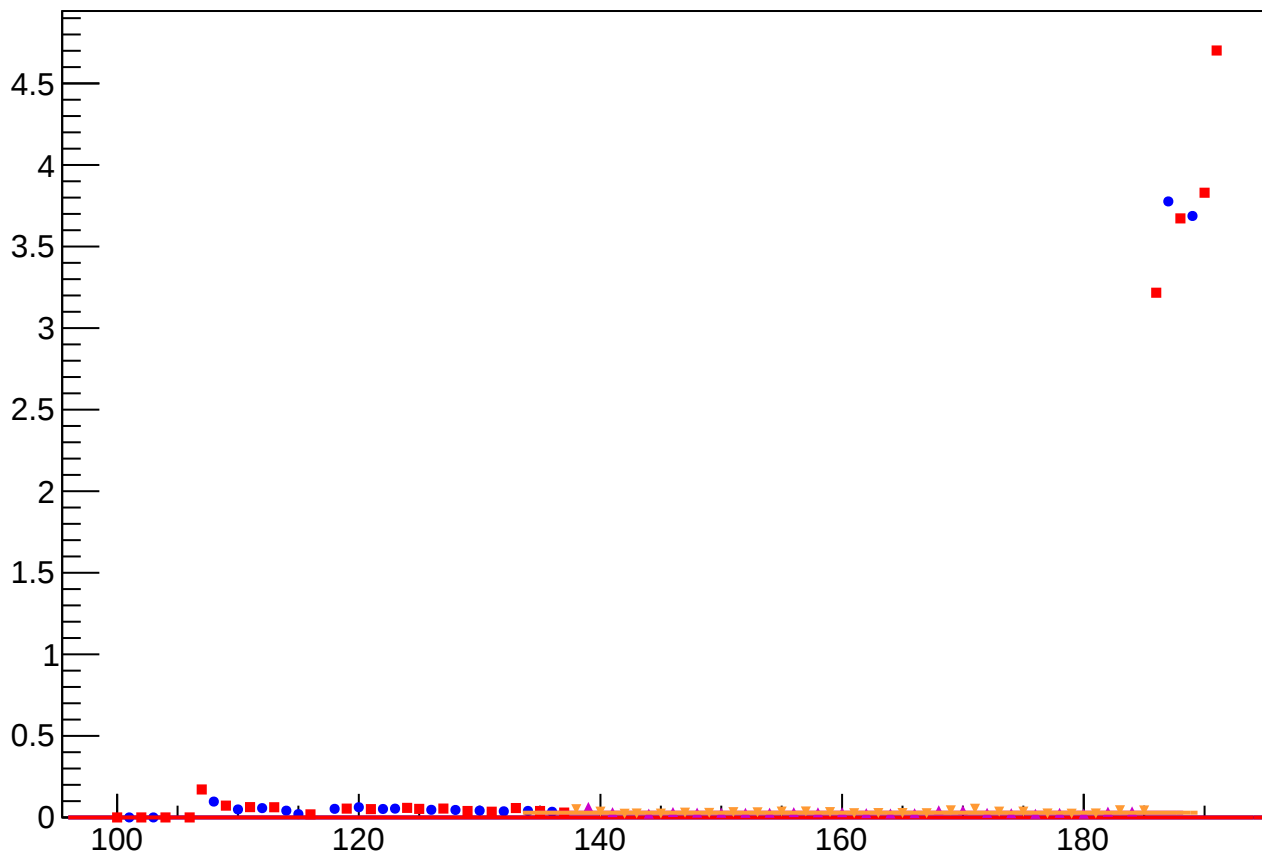
Right: 6.155+/-0.000 χ^2/NDF : 776078306753969.5/24

In: 6.530+/-0.000 χ^2/NDF : 952975347663.4/41

Out: 5.826+/-0.000 χ^2/NDF : 756656538051445.2/24

All: 6.153+/-0.000 χ^2/NDF : 77760167654911.1/47

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10205352.5/18

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

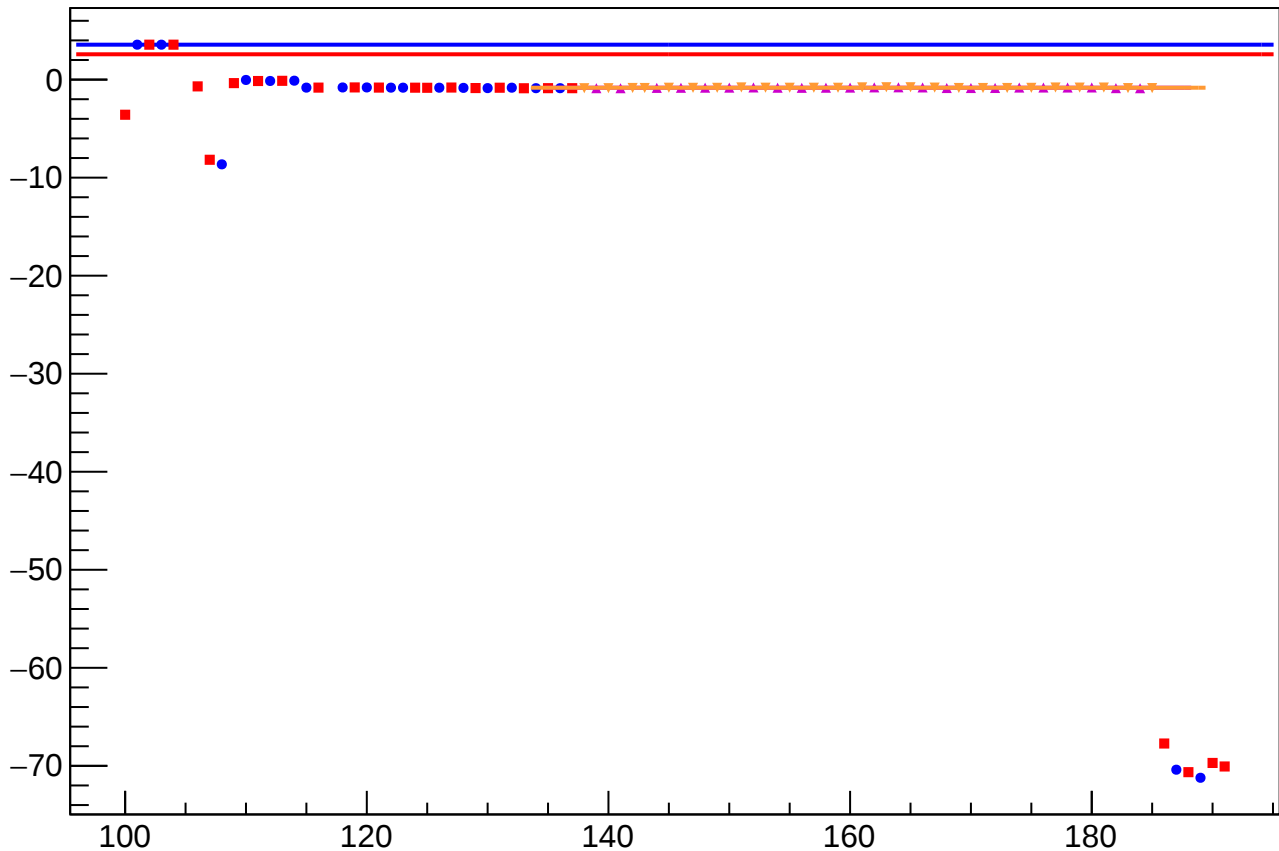
Right: 0.000+/-0.000 χ^2/NDF : 23142245.9/41

In: 0.000+/-0.000 χ^2/NDF :38167054.4/41

Out: 0.000+/-0.000 χ^2/NDF :42812335.4/47

All: 0.000+/-0.000 χ^2/NDF : 80979804.6/89

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 485939329249.8/18

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

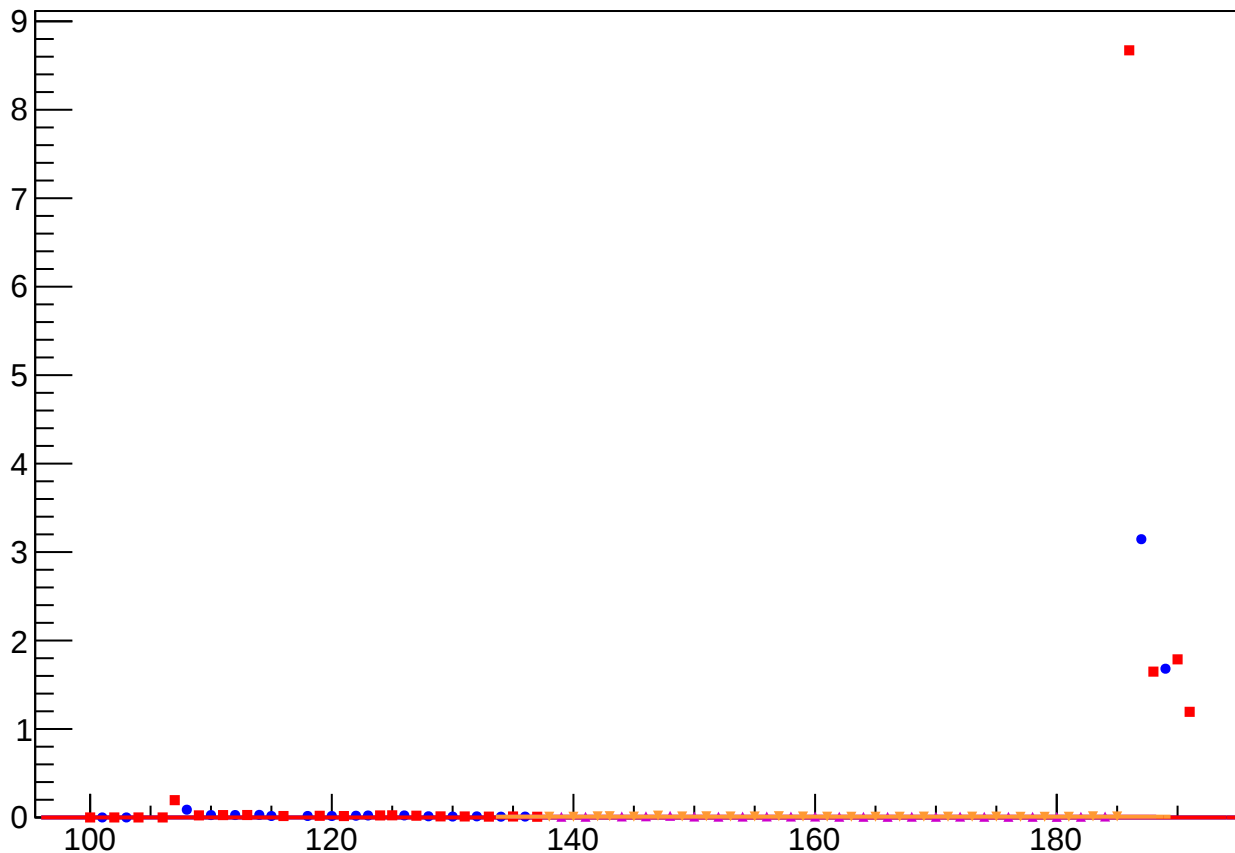
Right: 3.040+/-0.000 χ^2/NDF : 1382264539209751.0

In: 3.560+/-0.000 χ^2/NDF : 4131692674187.1/41

Out: 2.581+/-0.000 χ^2/NDF : 1255729722345232.0

All: 3.038+/-0.000 χ^2/NDF : 13879510145799

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10954178.0/18

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

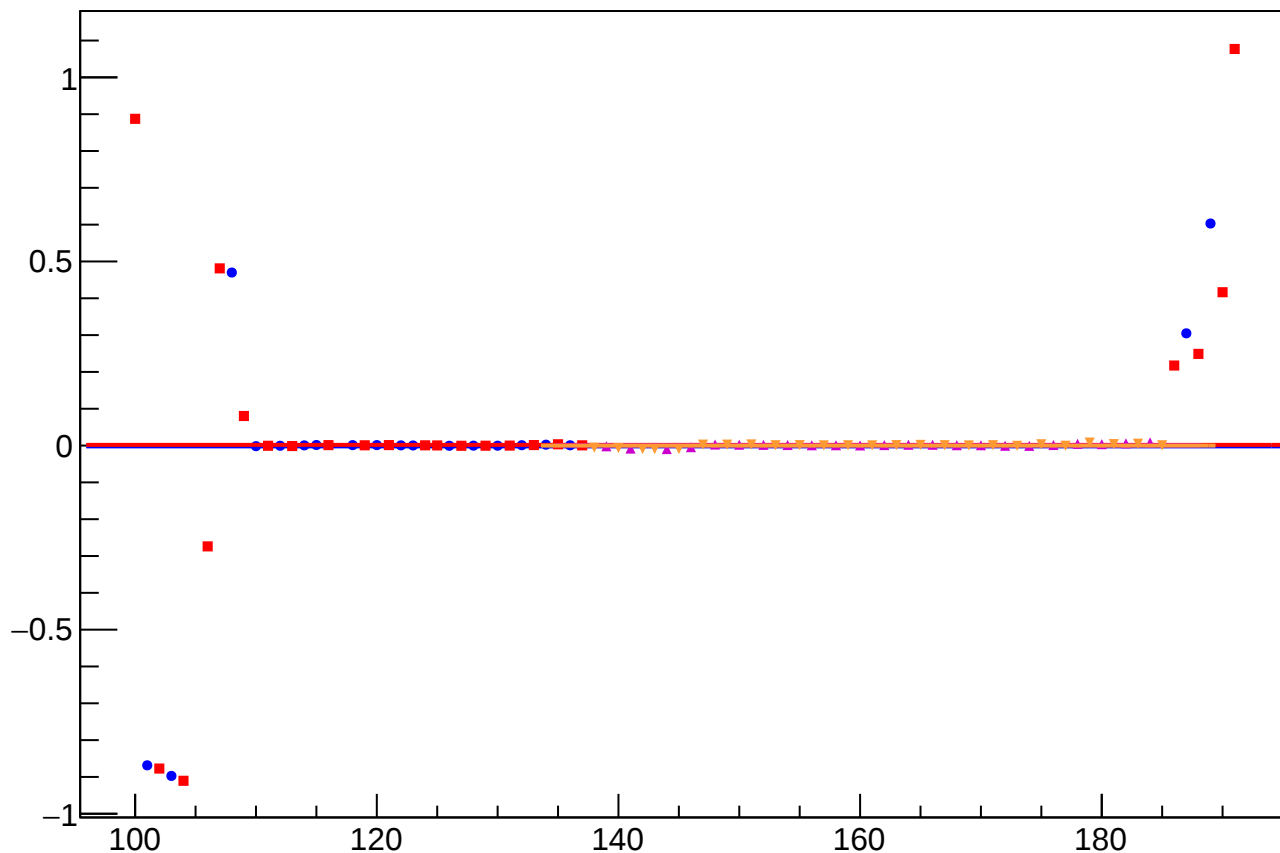
Right: 0.000+/-0.000 χ^2/NDF : 24068906.4/41

In: 0.000+/-0.000 χ^2/NDF :40490325.0/41

Out: 0.000+/-0.000 χ^2/NDF :44533144.3/47

All: 0.000+/-0.000 χ^2/NDF : 85024222.2/89

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795560562.2/18

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

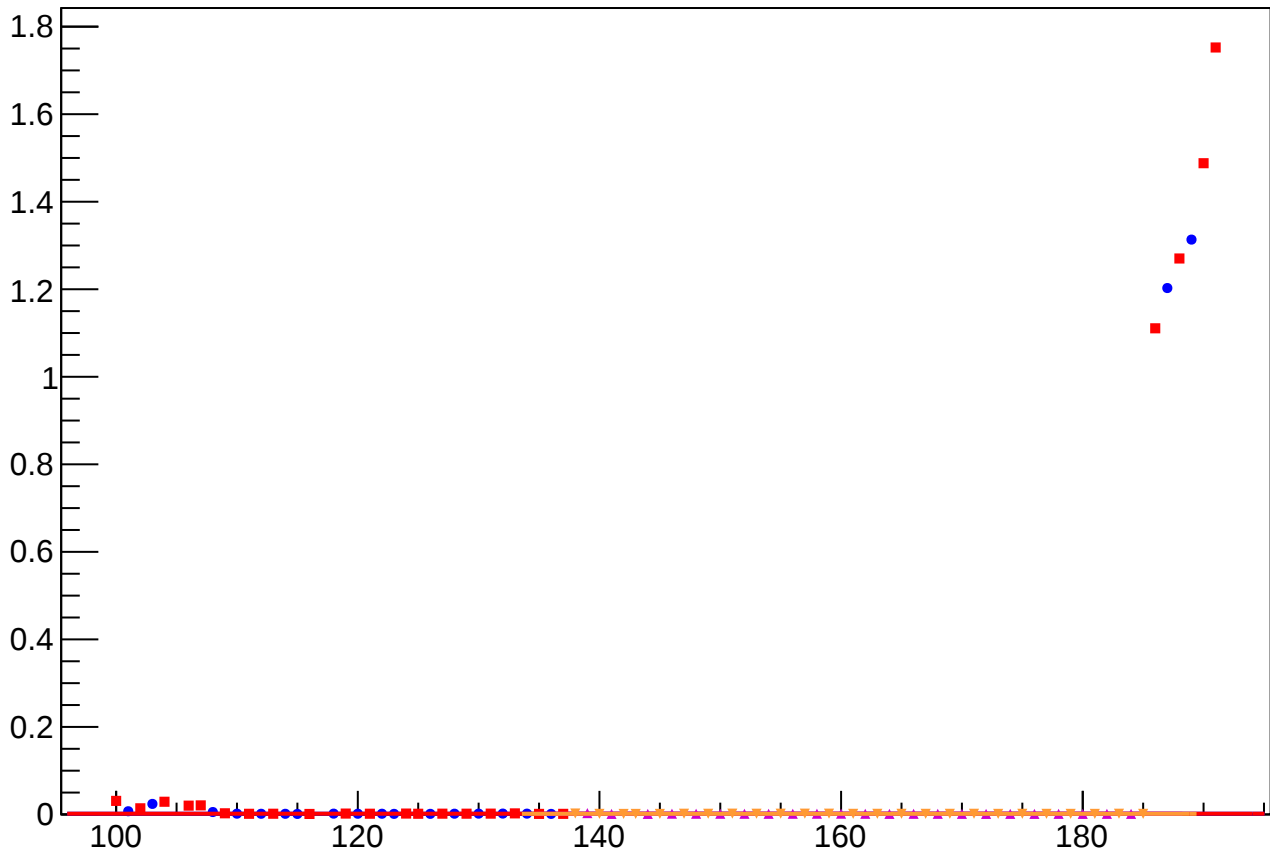
Right: -0.000+/-0.000 χ^2/NDF : 12850823707.8/41

In: -0.000+/-0.000 χ^2/NDF : 9908019182.0/41

Out: 0.000+/-0.000 χ^2/NDF : 3197705715.3/47

All: 0.000+/-0.000 χ^2/NDF : 13106061894.7/8

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3104027.1/18

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

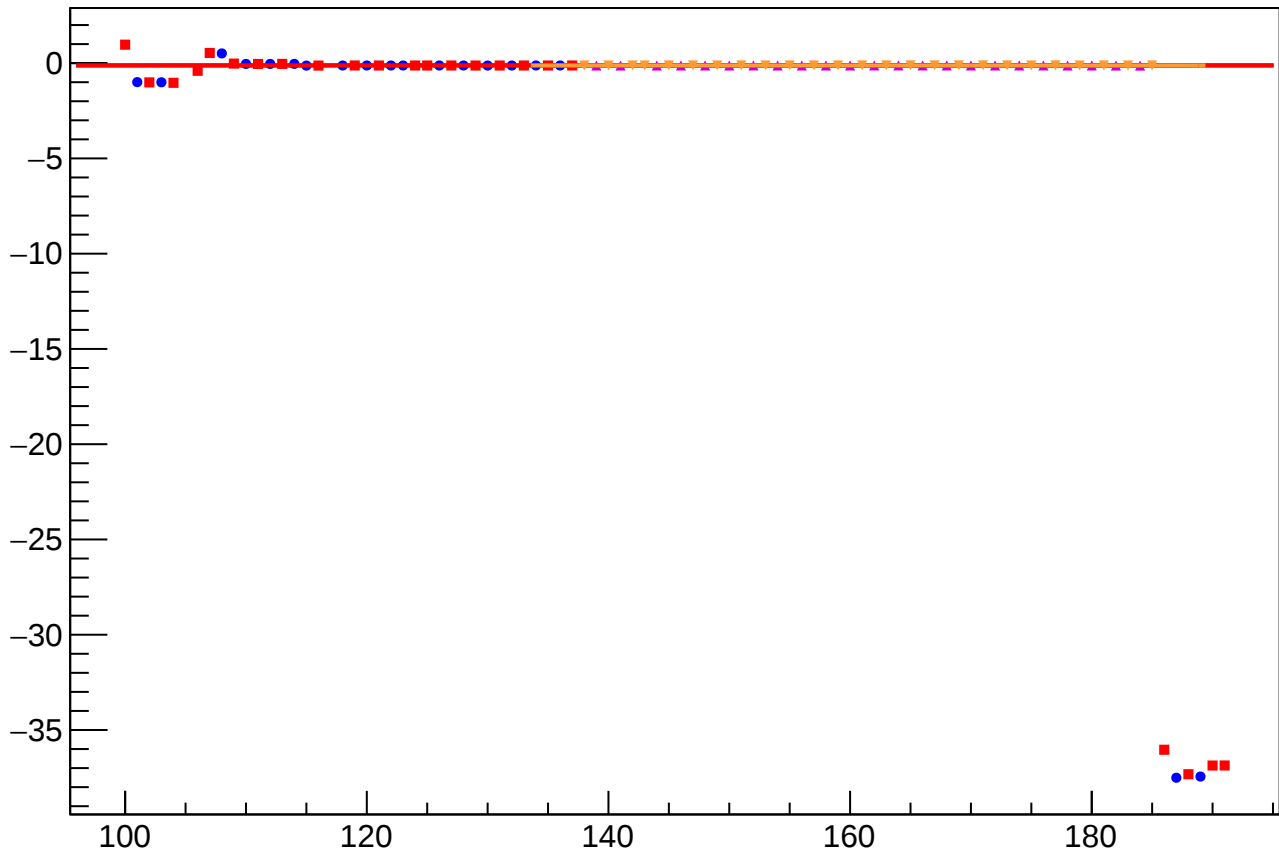
Right: 0.002+/-0.000 χ^2/NDF : 9698923.6/41

In: 0.002+/-0.000 χ^2/NDF : 3780174.1/41

Out: 0.002+/-0.000 χ^2/NDF : 7262668.5/47

All: 0.002+/-0.000 χ^2/NDF : 11043743.4/89

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 6293033068.3/18

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

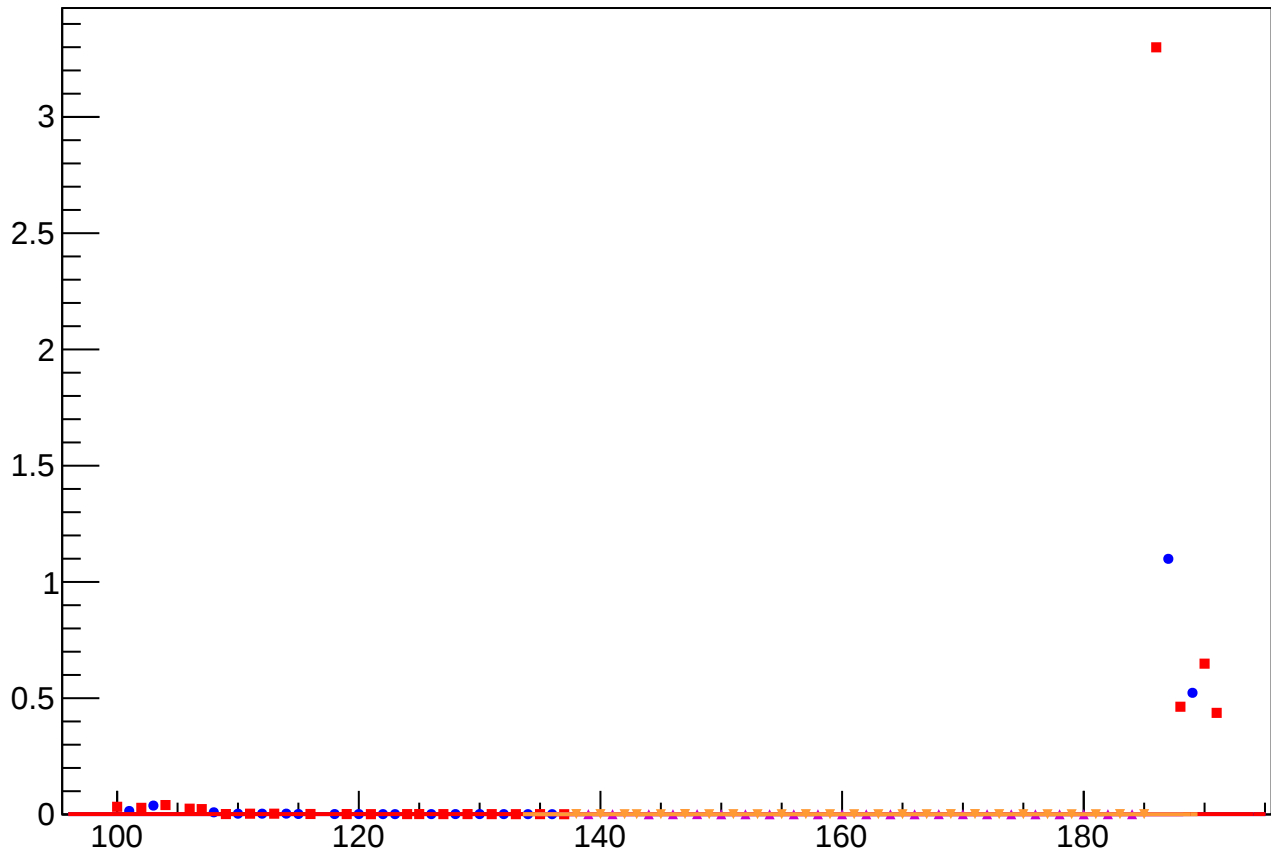
Right: -0.118+/-0.000 χ^2/NDF : 16816188087.5/41

In: -0.121+/-0.000 χ^2/NDF : 6345646432.2/41

Out: -0.121+/-0.000 χ^2/NDF : 10611975450.7/47

All: -0.121+/-0.000 χ^2/NDF : 16958530684.9/94

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4042224.5/18

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

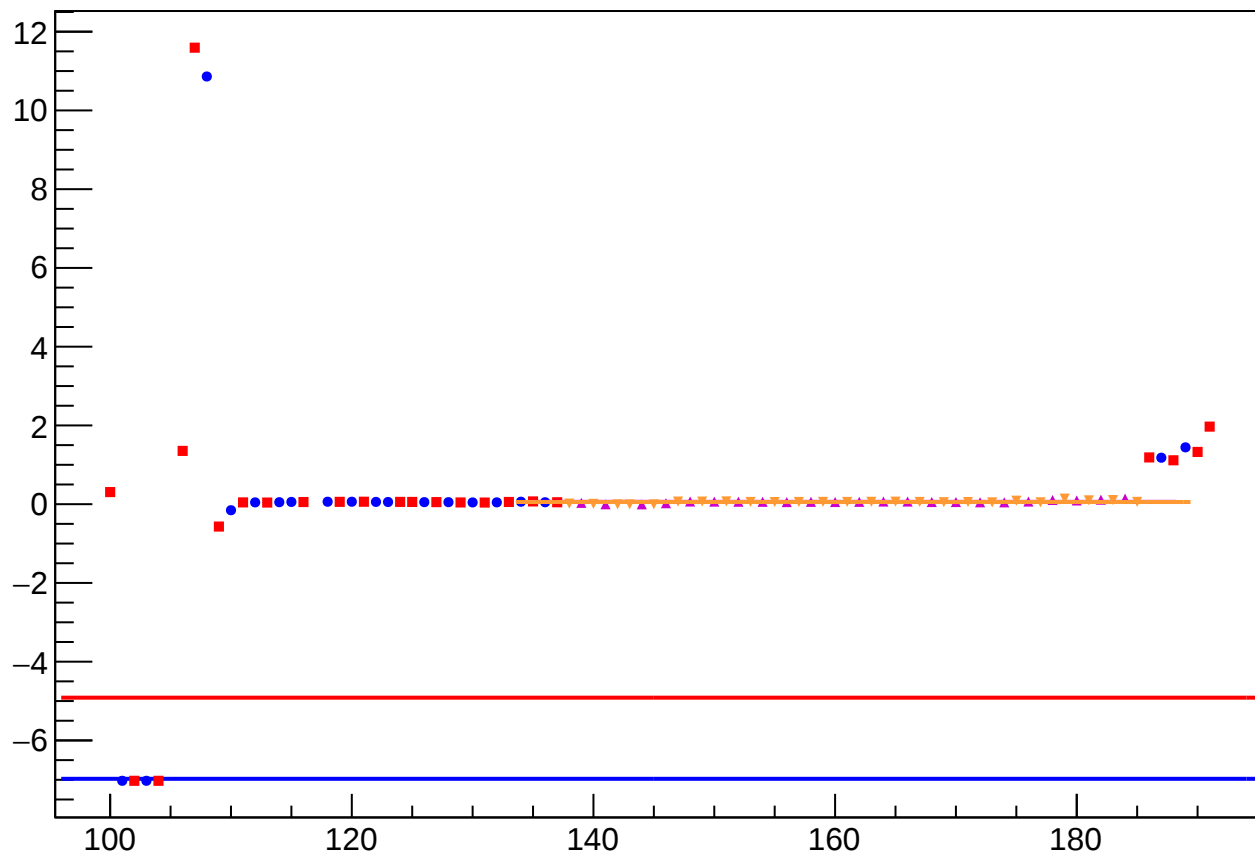
Right: 0.002+/-0.000 χ^2/NDF : 11031507.3/41

In: 0.001+/-0.000 χ^2/NDF :6155049.7/41

Out: 0.001+/-0.000 χ^2/NDF :9501666.1/47

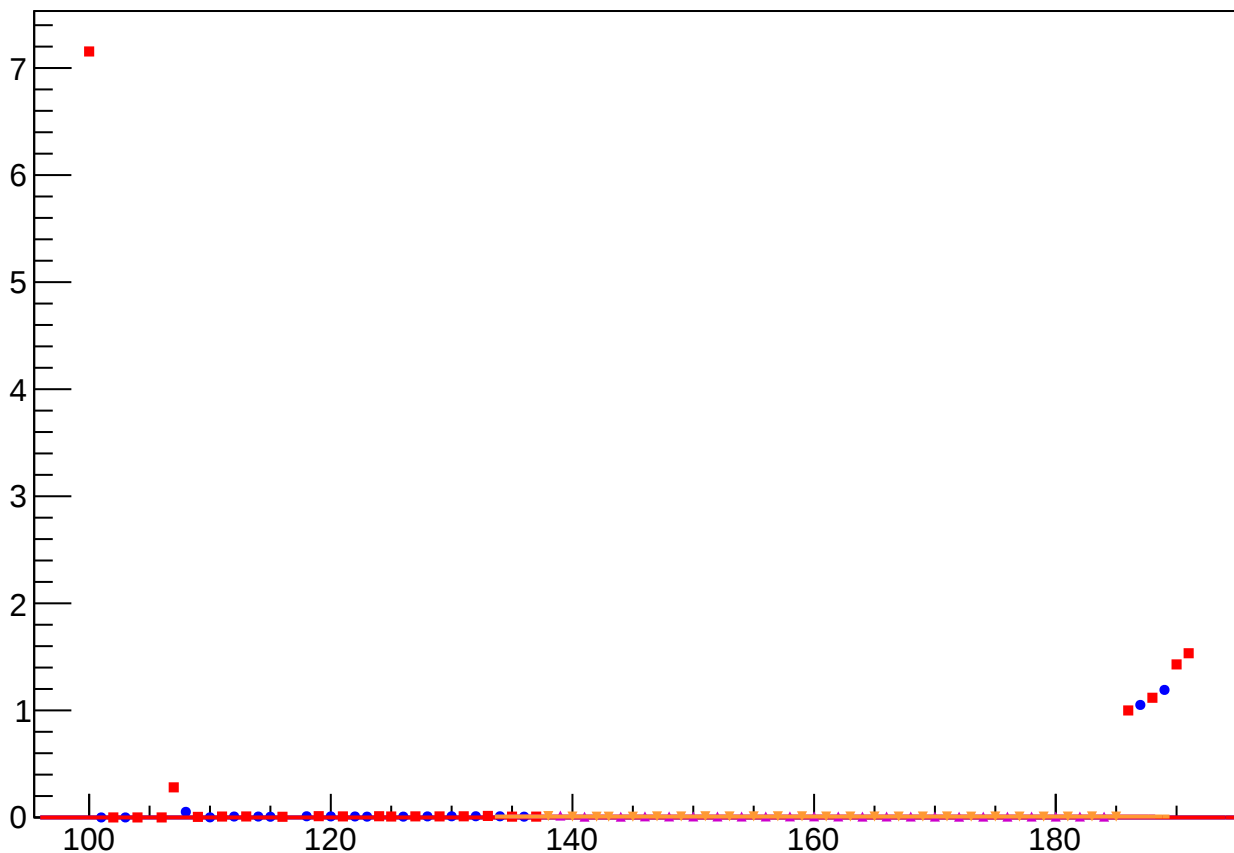
All: 0.001+/-0.000 χ^2/NDF : 15659234.8/89

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797389084913.4/18$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352705676011.7/22$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$
 Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333356472895.7$
 In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17552909167298.7/41$
 Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165269864533.9/41$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435286498793$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9536508.2/18

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

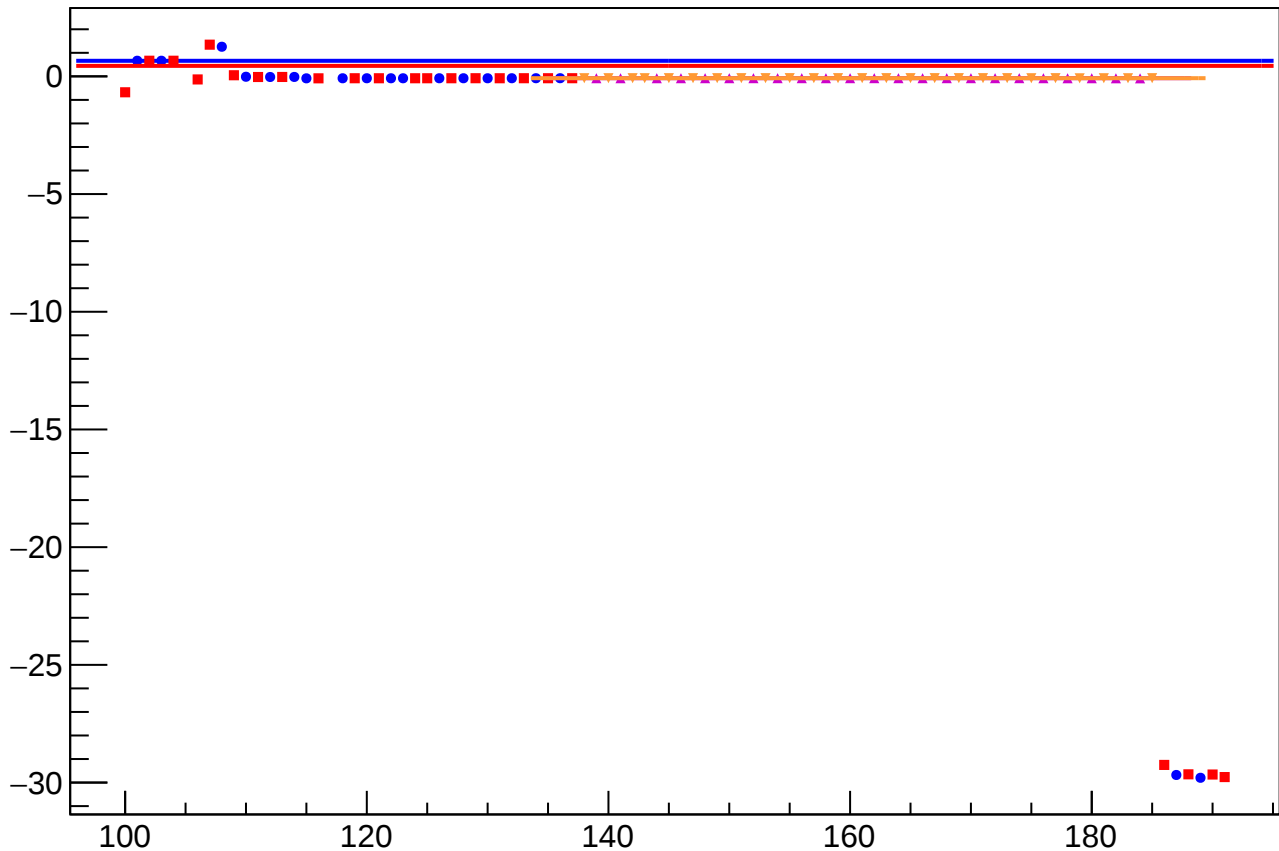
Right: 0.000+/-0.000 χ^2/NDF : 21890000.5/41

In: 0.000+/-0.000 χ^2/NDF : 36955360.0/41

Out: 0.000+/-0.000 χ^2/NDF : 41298088.9/47

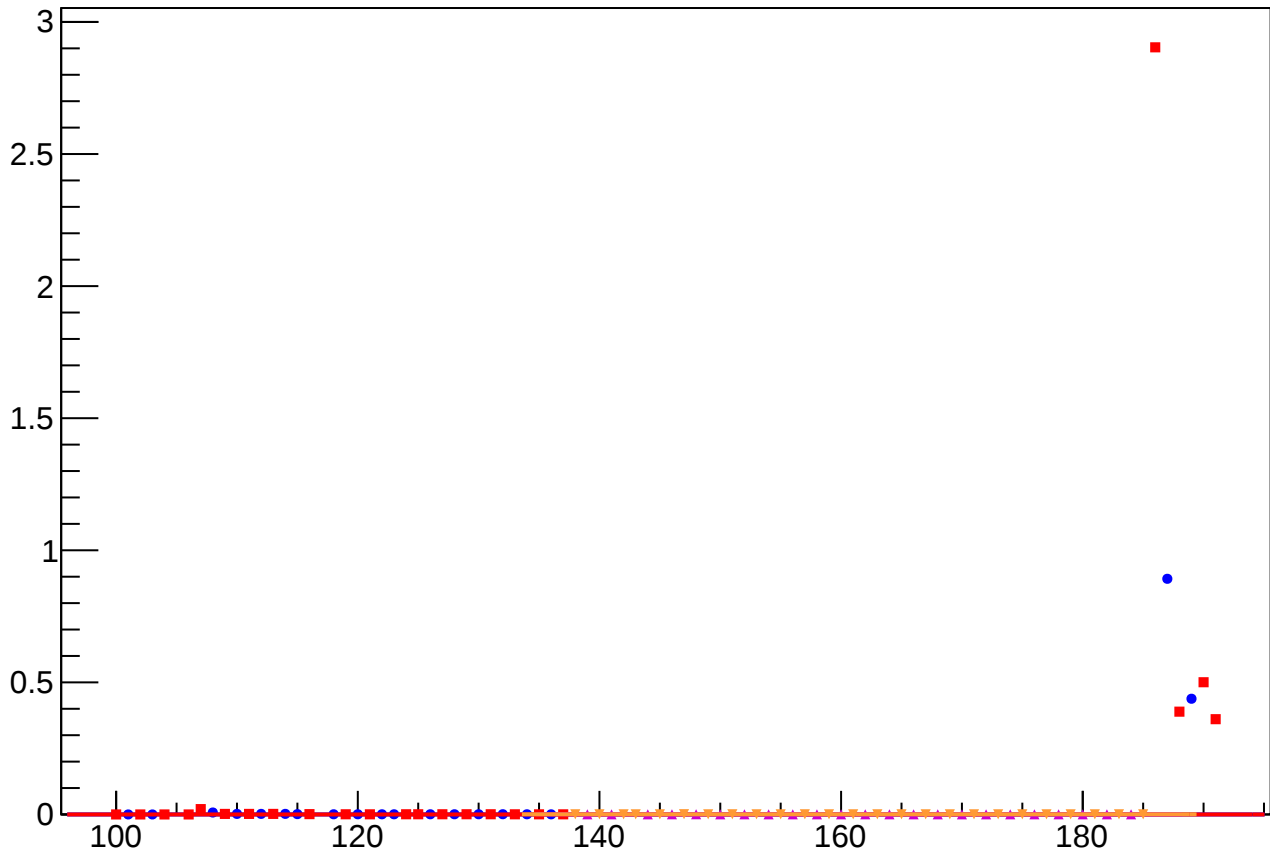
All: 0.000+/-0.000 χ^2/NDF : 78253909.5/89

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000 χ^2/NDF : 5660987652808.9/18
 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 : 474010641923671.2/47
 In: 0.647+/-0.000 χ^2/NDF : 33701720603131.4/41
 Out: 0.436+/-0.000 χ^2/NDF : 420597442105025.4/41
 All: 0.537+/-0.000 χ^2/NDF : 51585511599302.1/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11130346.5/18

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

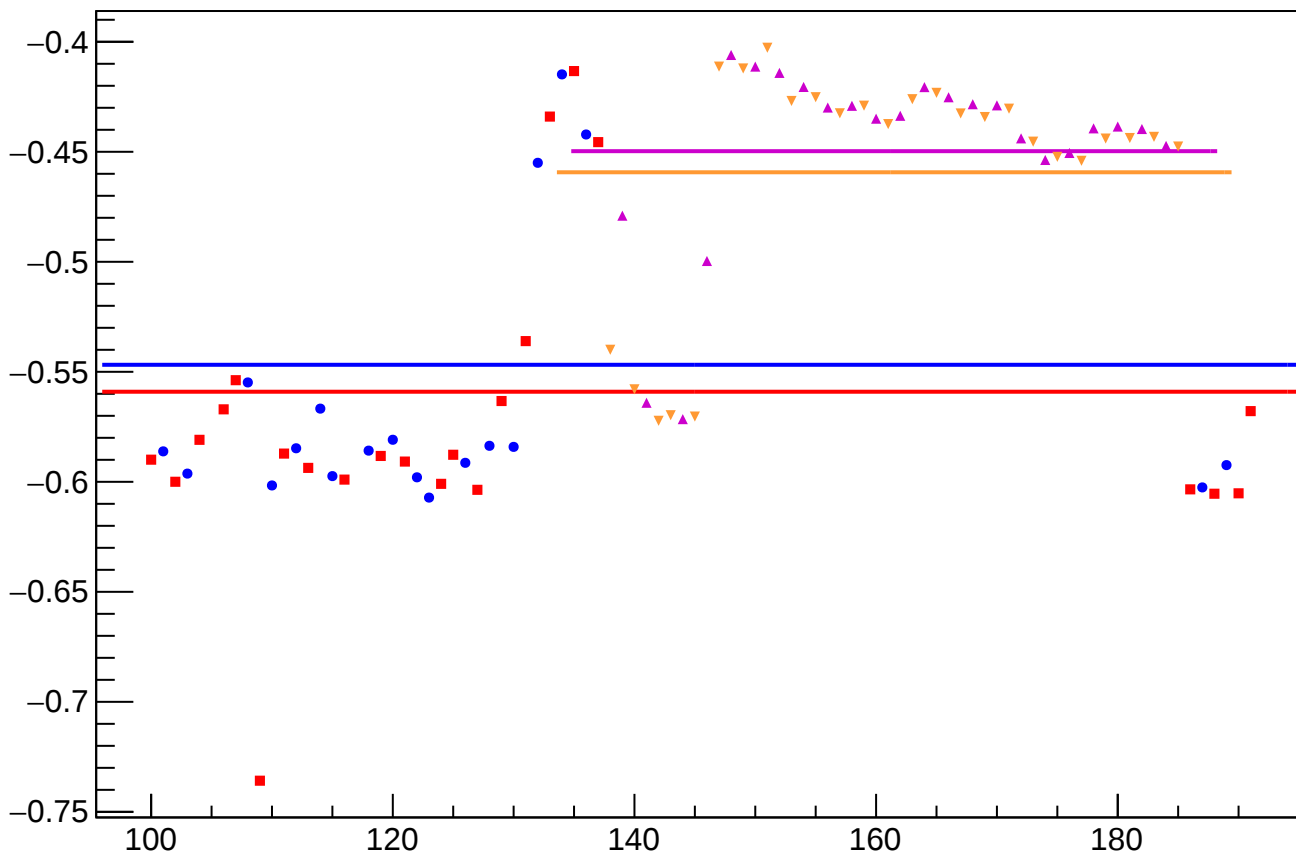
Right: 0.000+/-0.000 χ^2/NDF : 24108299.0/41

In: 0.000+/-0.000 χ^2/NDF :41863433.7/41

Out: 0.000+/-0.000 χ^2/NDF :45599819.1/47

All: 0.000+/-0.000 χ^2/NDF : 87463587.1/89

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547 $\pm$ 0.000 χ^2 /NDF: 46920498.7/18

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

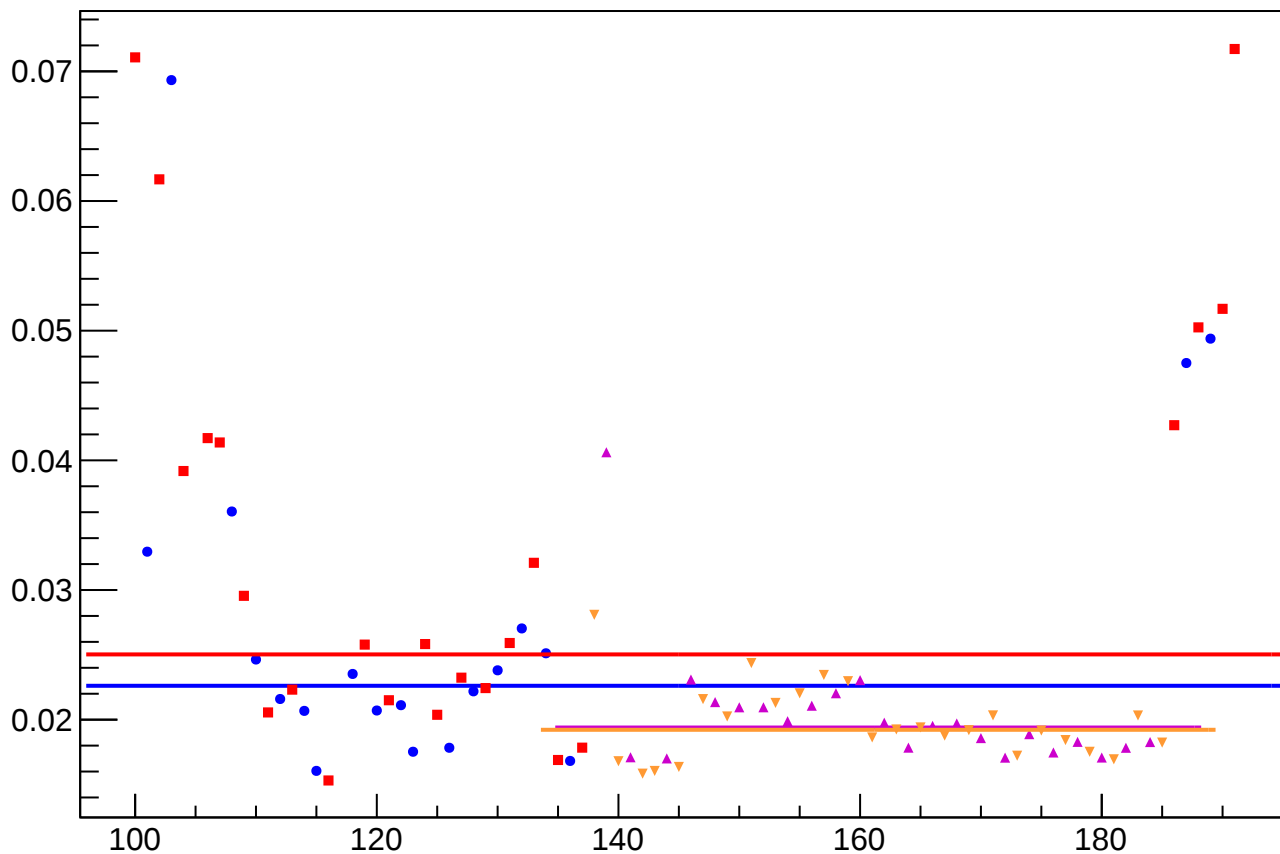
Right: -0.553 $\pm$ 0.000 χ^2 /NDF: 113234156.0/41

In: -0.472 $\pm$ 0.000 χ^2 /NDF: 201775417.8/41

Out: -0.480 $\pm$ 0.000 χ^2 /NDF: 262102019.1/47

All: -0.476 $\pm$ 0.000 χ^2 /NDF: 465630802.2/89

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 1307936.8/18

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

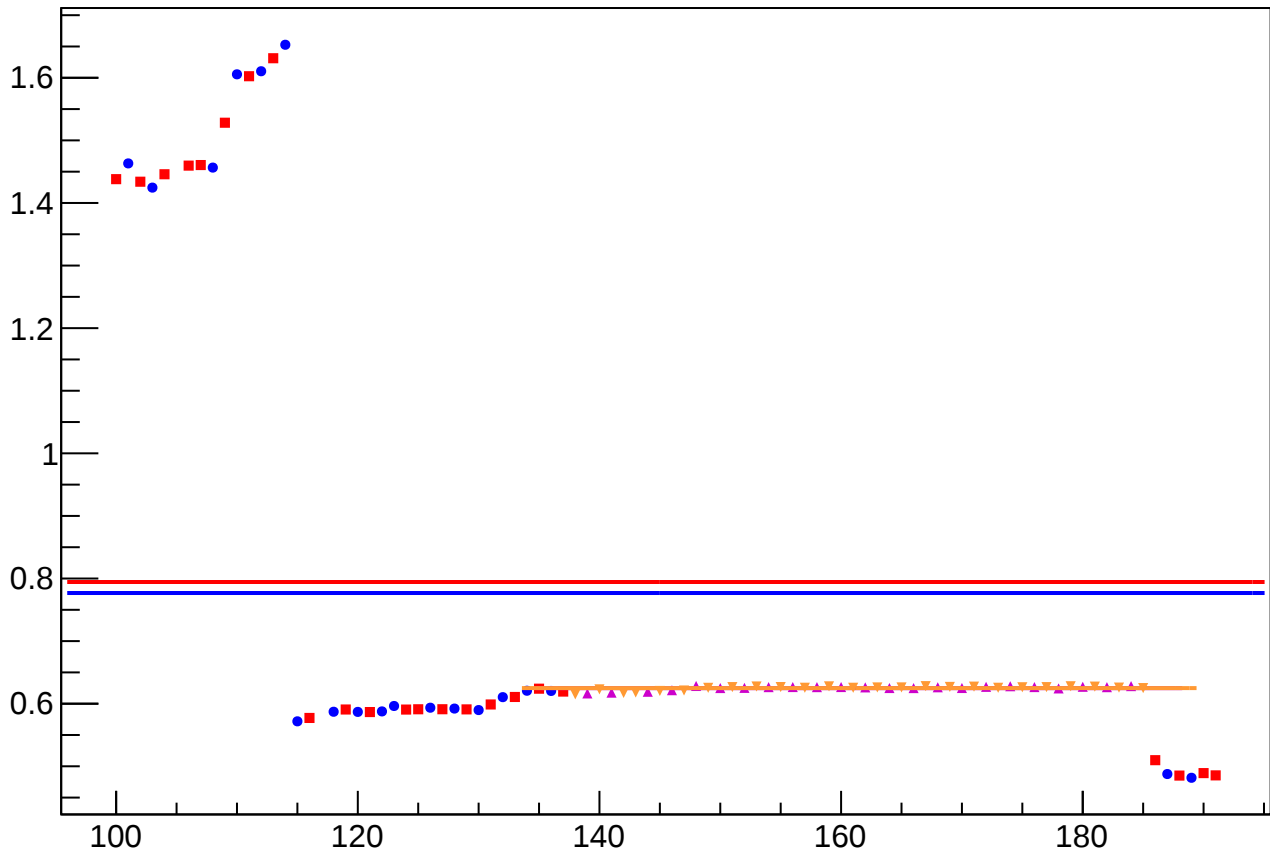
Right: 0.024+/-0.000 χ^2/NDF : 3518179.7/41

In: 0.020+/-0.000 χ^2/NDF : 2107503.1/41

Out: 0.020+/-0.000 χ^2/NDF : 3213407.8/47

All: 0.020+/-0.000 χ^2/NDF : 5325578.8/89

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.777 $\pm$ 0.000 χ^2 /NDF: 3674170770.5/18

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

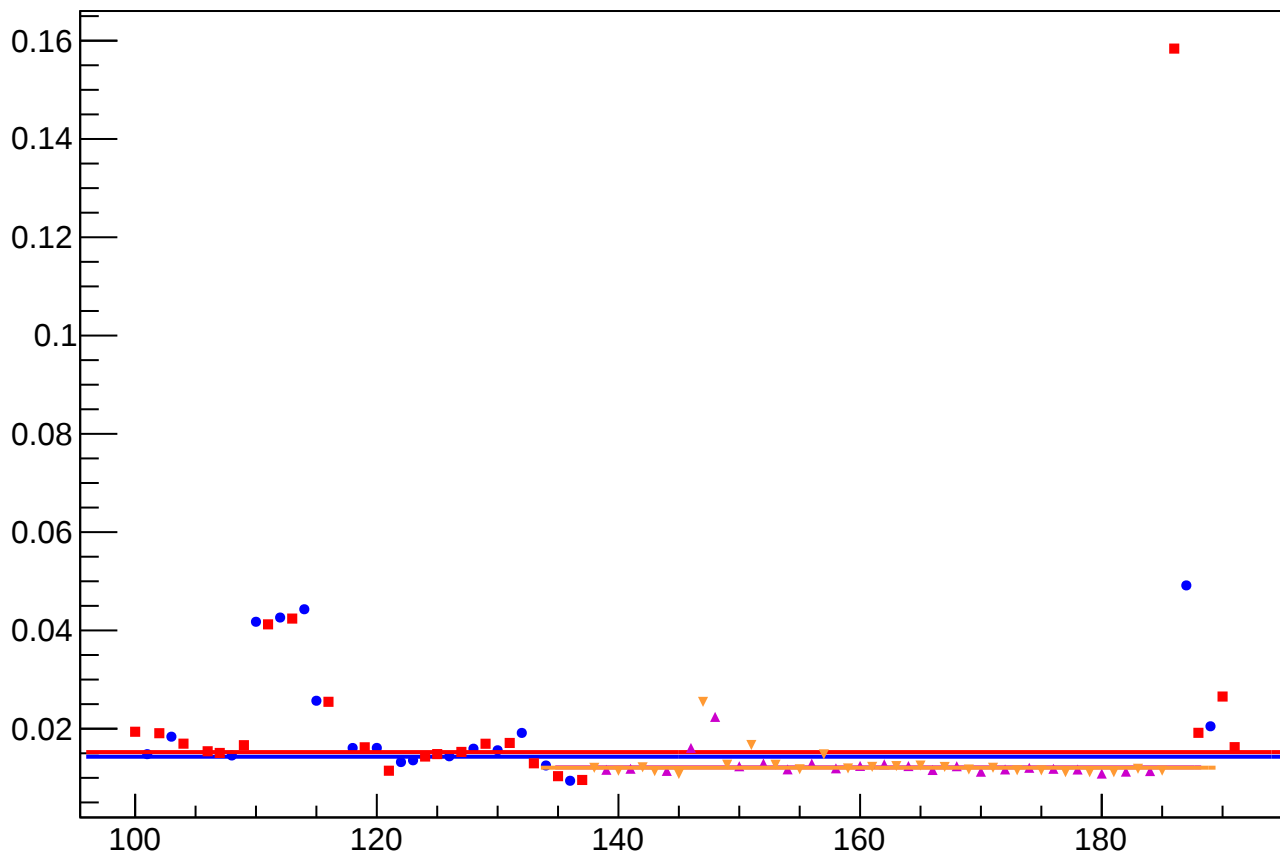
Right: 0.786 $\pm$ 0.000 χ^2 /NDF: 8213799965.5/41

In: 0.656 $\pm$ 0.000 χ^2 /NDF:4220986885.7/41

Out: 0.660 $\pm$ 0.000 χ^2 /NDF:5254304119.5/47

All: 0.658 $\pm$ 0.000 χ^2 /NDF: 9476145235.7/89

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1621721.0/18

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

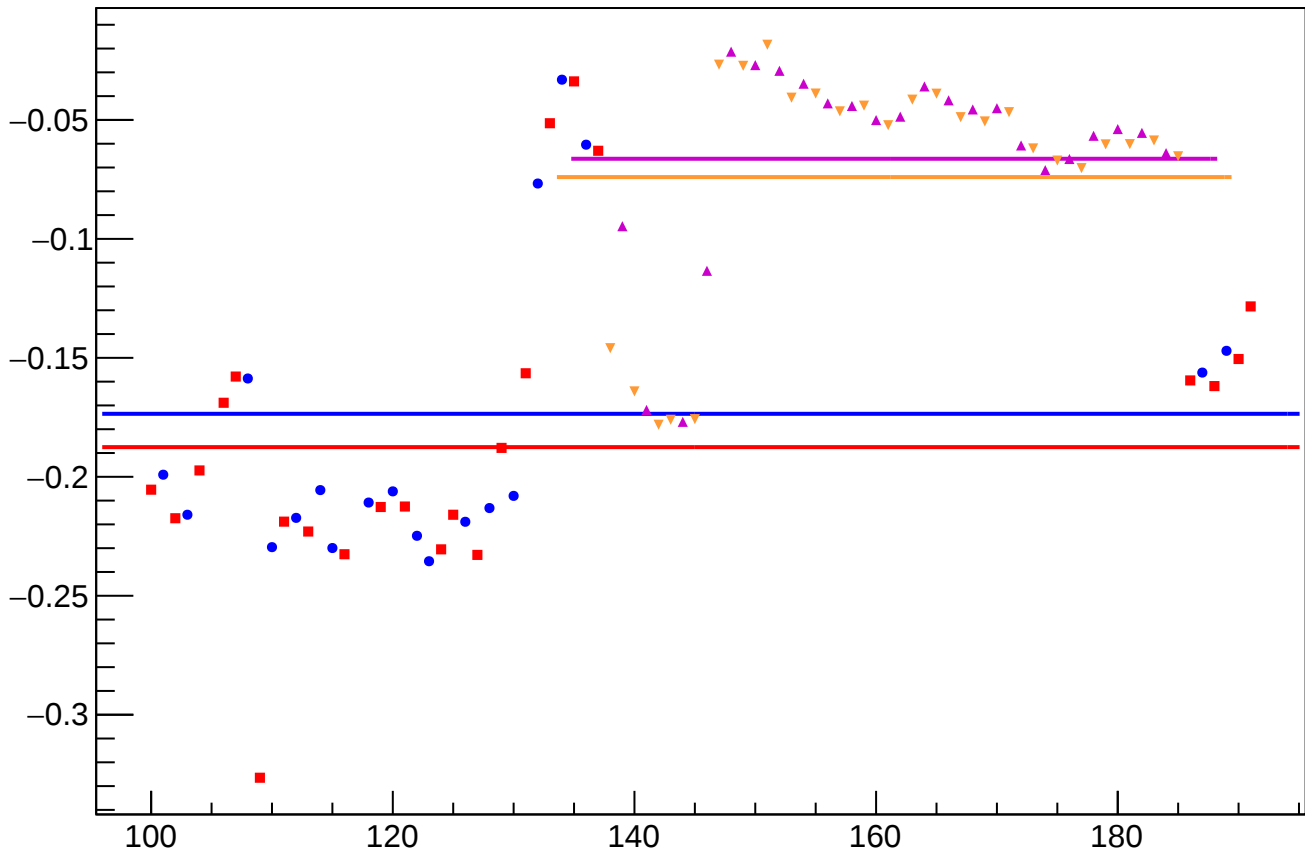
Right: 0.015+/-0.000 χ^2/NDF : 3689536.4/41

In: 0.013+/-0.000 χ^2/NDF : 2331293.6/41

Out: 0.013+/-0.000 χ^2/NDF : 3200838.4/47

All: 0.013+/-0.000 χ^2/NDF : 5534975.8/89

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 66903938.2/18

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

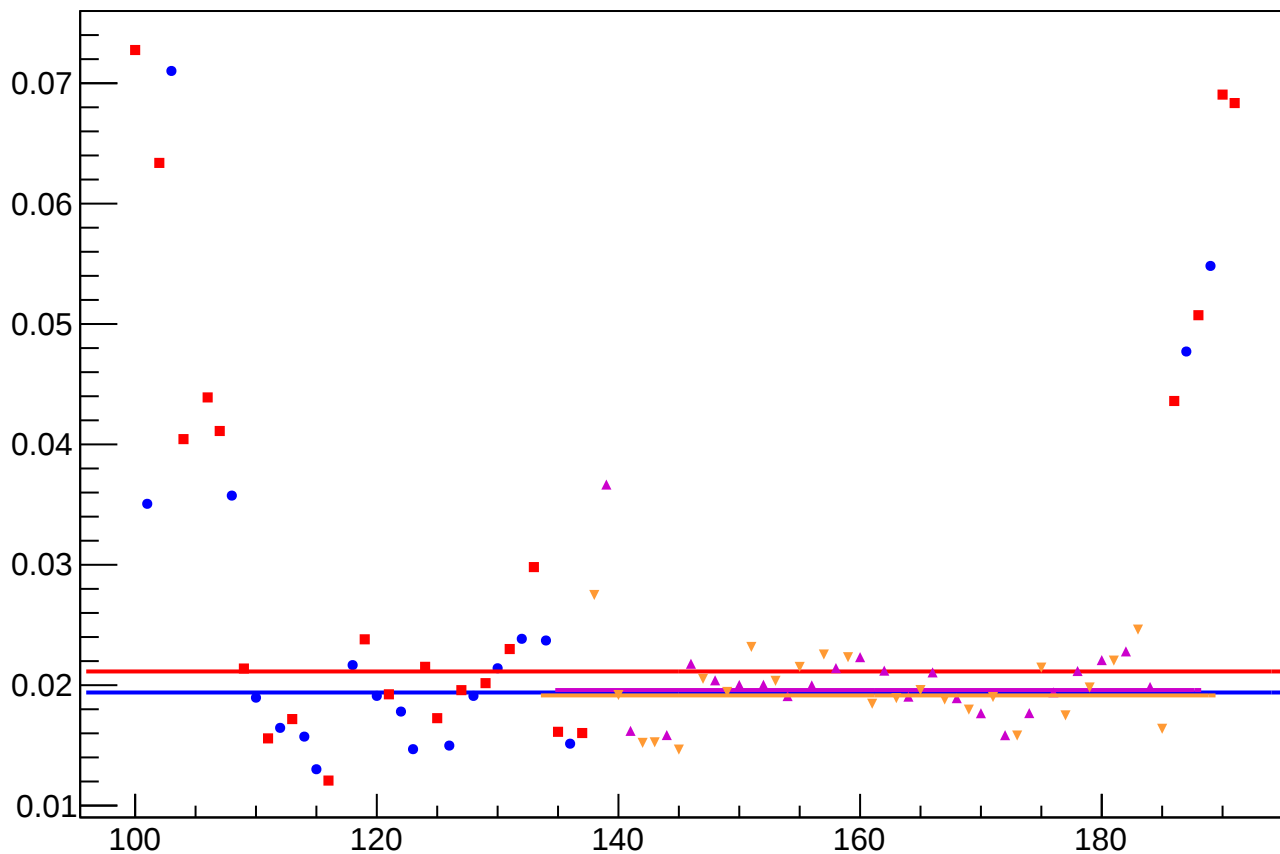
Right: -0.180+/-0.000 χ^2/NDF : 150941055.1/41

In: -0.096+/-0.000 χ^2/NDF :261321661.3/41

Out: -0.103+/-0.000 χ^2/NDF :325189581.8/47

All: -0.100+/-0.000 χ^2/NDF : 587778568.4/89

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1695031.4/18

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

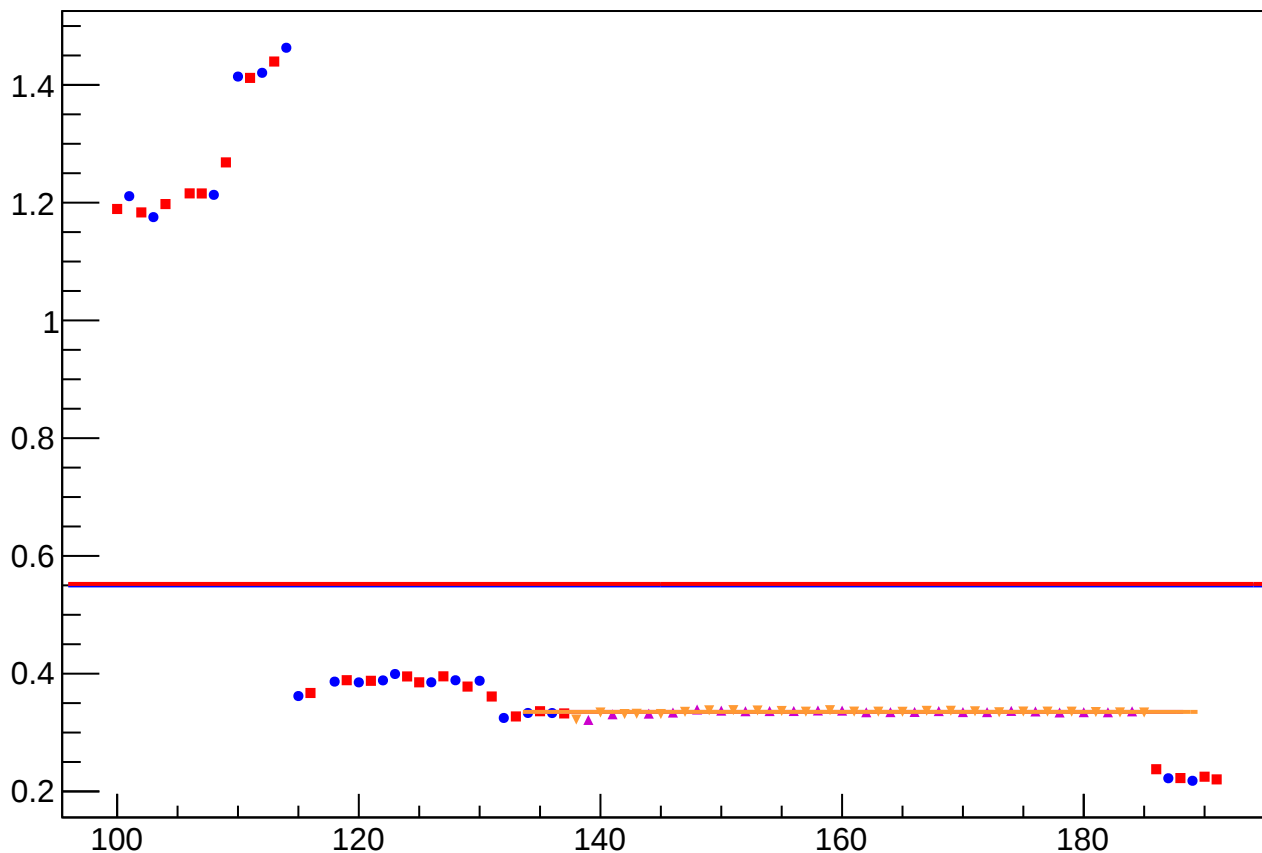
Right: 0.020+/-0.000 χ^2/NDF : 4583028.1/41

In: 0.020+/-0.000 χ^2/NDF : 2319039.8/41

Out: 0.020+/-0.000 χ^2/NDF : 3569057.2/47

All: 0.020+/-0.000 χ^2/NDF : 5888809.9/89

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.550+/-0.000 χ^2/NDF : 5232824607.5/18

Left Out: 0.335+/-0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.552+/-0.000 χ^2/NDF : 6280368764.0/22

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

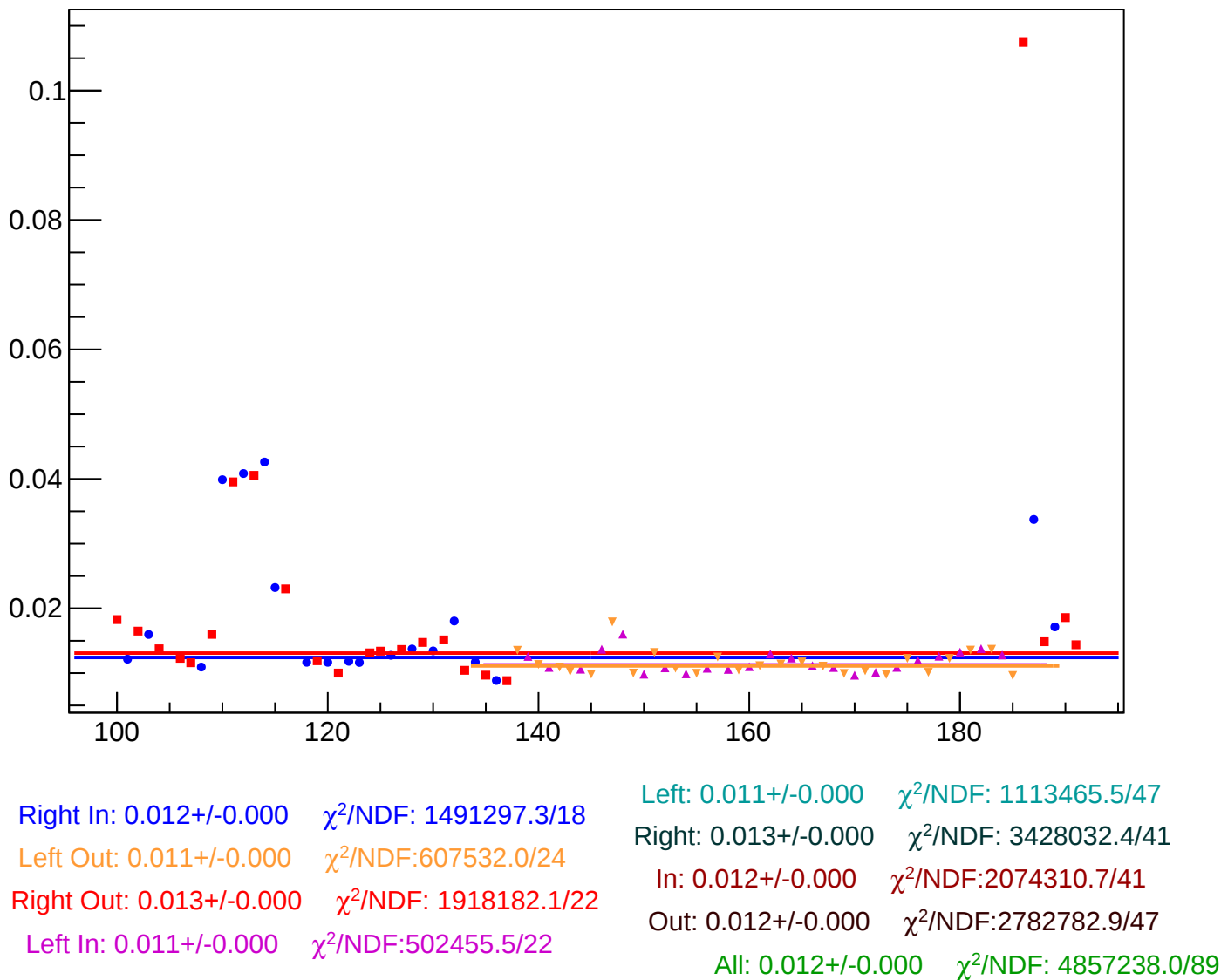
Right: 0.551+/-0.000 χ^2/NDF : 11513326620.5/41

In: 0.386+/-0.000 χ^2/NDF : 6642350066.9/41

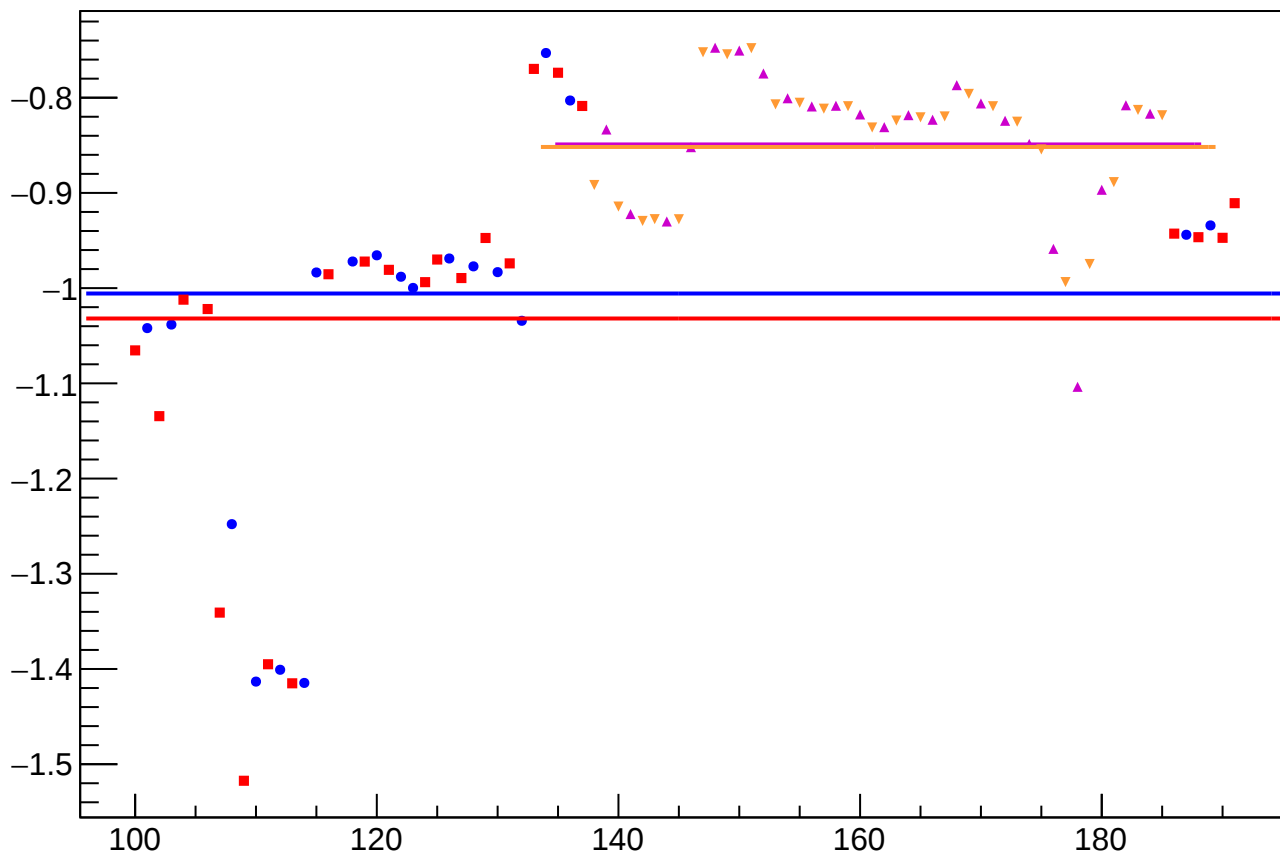
Out: 0.385+/-0.000 χ^2/NDF : 7829699914.4/47

All: 0.385+/-0.000 χ^2/NDF : 14472050213.5/8

yield_bpm4eY_rms vs Slug, Sign Corrected



yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.006 $\pm$ 0.000 χ^2 /NDF: 394858375.4/18

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189103962.4/24

Right Out: -1.032 $\pm$ 0.000 χ^2 /NDF: 541881238.8/22

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445636655.2/47

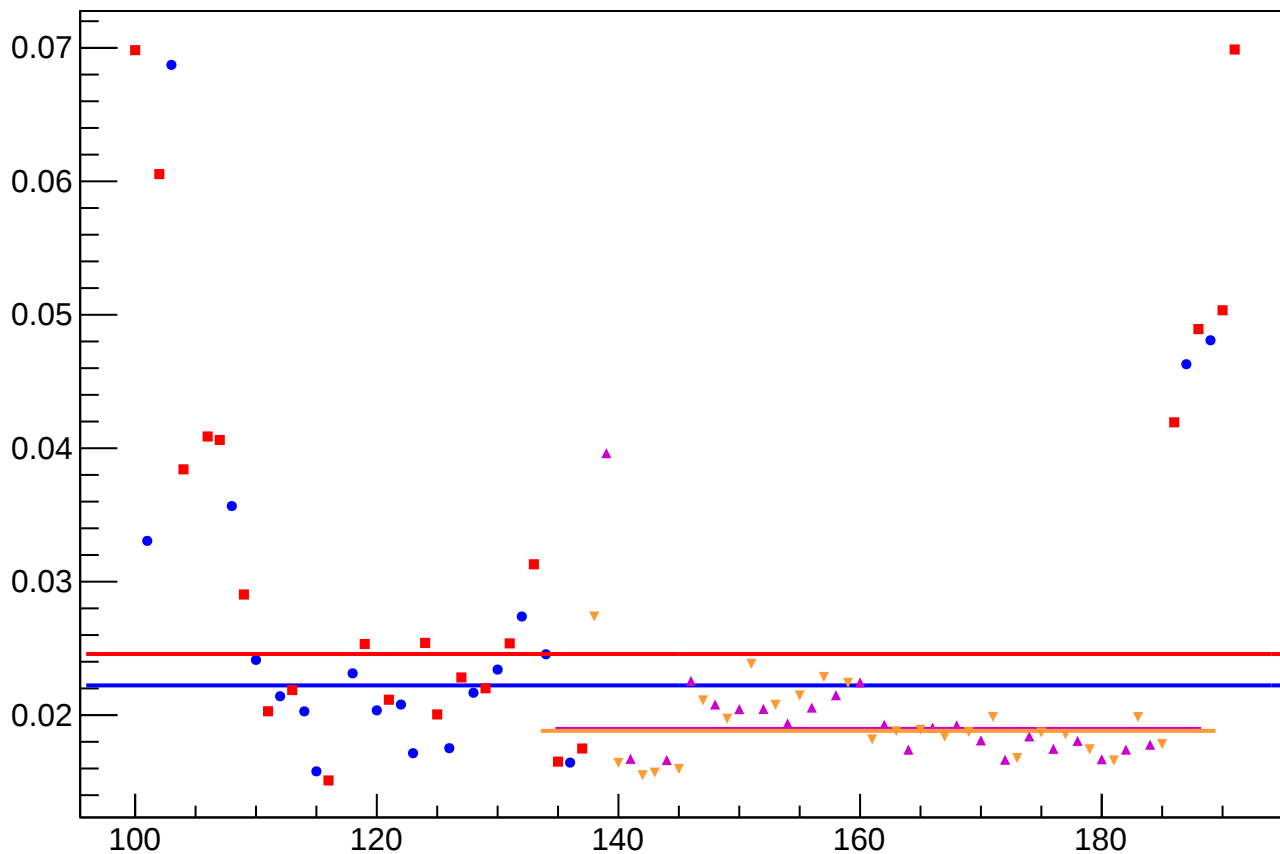
Right: -1.019 $\pm$ 0.000 χ^2 /NDF: 940539233.0/41

In: -0.884 $\pm$ 0.000 χ^2 /NDF:863473788.3/41

Out: -0.889 $\pm$ 0.000 χ^2 /NDF:1011871489.6/47

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1875980658.3/8

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 1327546.3/18

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

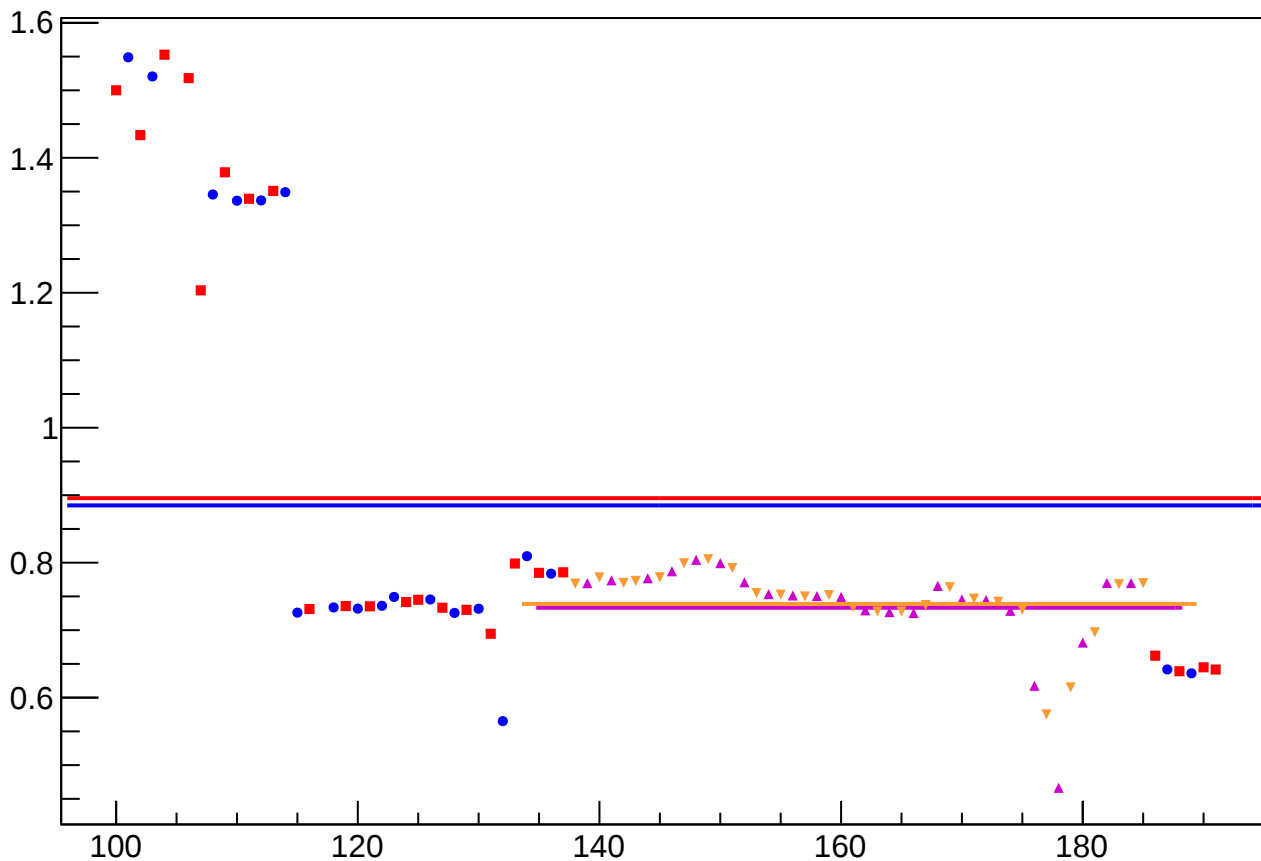
Right: 0.023+/-0.000 χ^2/NDF : 3521264.5/41

In: 0.020+/-0.000 χ^2/NDF : 2126678.2/41

Out: 0.020+/-0.000 χ^2/NDF : 3196705.7/47

All: 0.020+/-0.000 χ^2/NDF : 5328607.2/89

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.885 $\pm$ 0.000 χ^2 /NDF: 2465394481.3/18

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

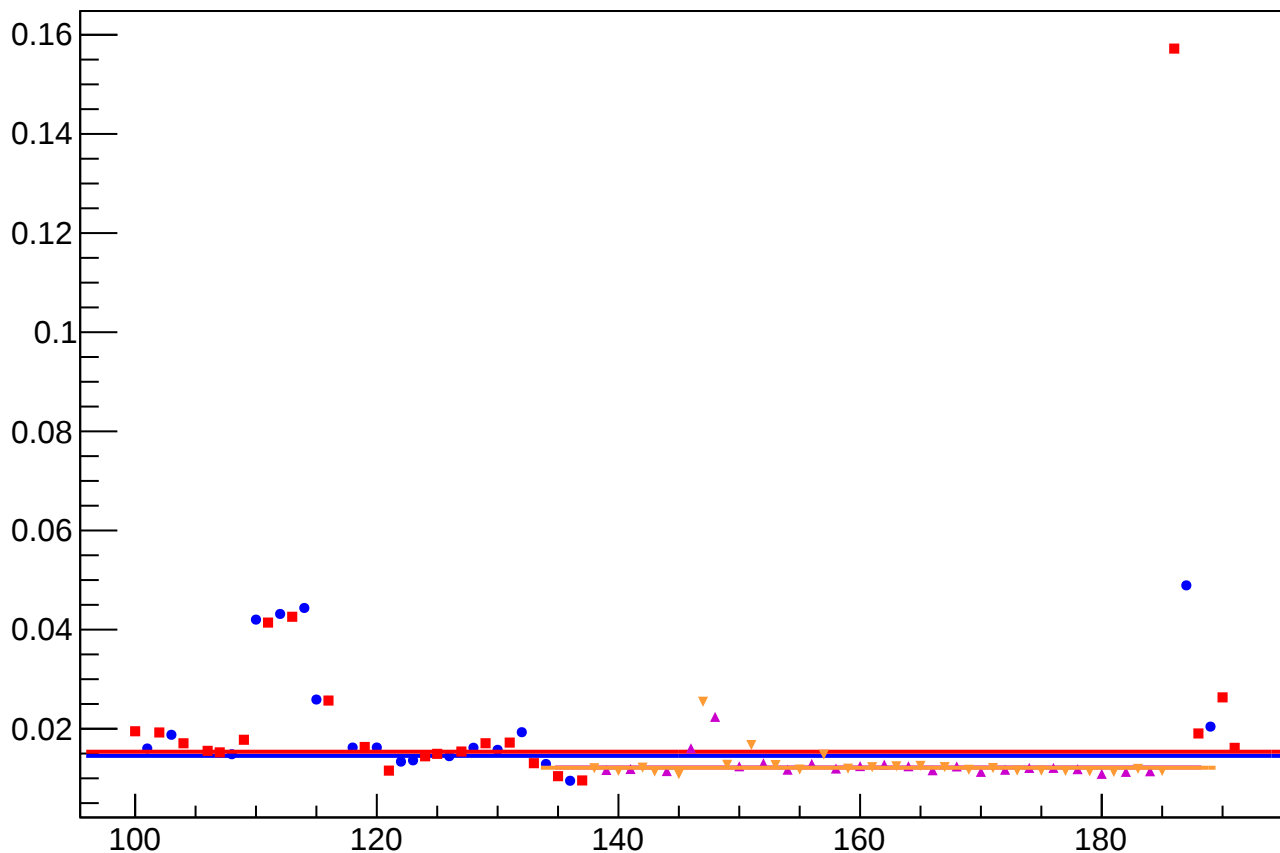
Right: 0.890 $\pm$ 0.000 χ^2 /NDF: 5155901604.2/41

In: 0.764 $\pm$ 0.000 χ^2 /NDF:3561313658.4/41

Out: 0.771 $\pm$ 0.000 χ^2 /NDF:3624686043.9/47

All: 0.768 $\pm$ 0.000 χ^2 /NDF: 7189474401.7/89

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1622677.4/18

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

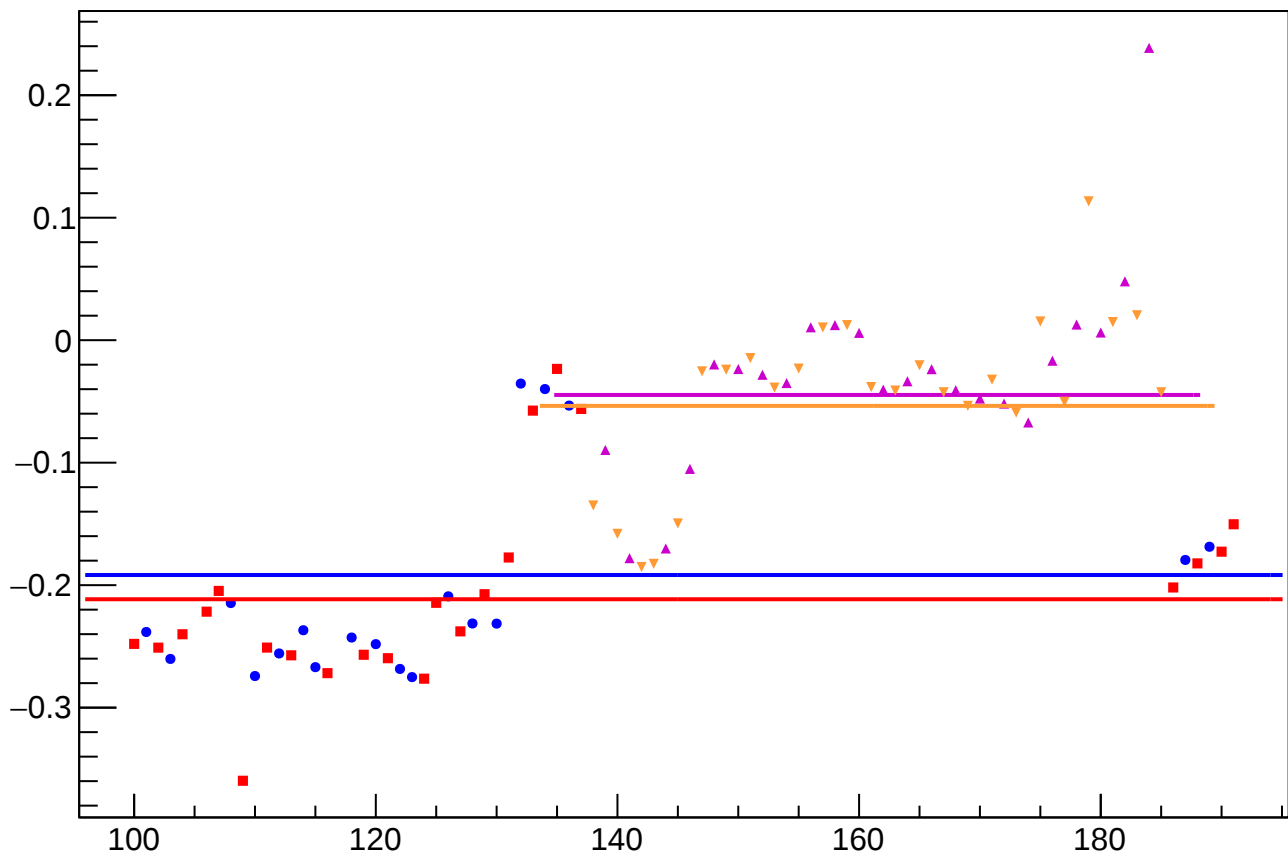
Right: 0.015+/-0.000 χ^2/NDF : 3677932.9/41

In: 0.013+/-0.000 χ^2/NDF : 2355630.5/41

Out: 0.013+/-0.000 χ^2/NDF : 3184888.7/47

All: 0.013+/-0.000 χ^2/NDF : 5543159.1/89

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192 ± 0.000 $\chi^2/\text{NDF}: 106288927.3/18$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 111139501.0/22$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

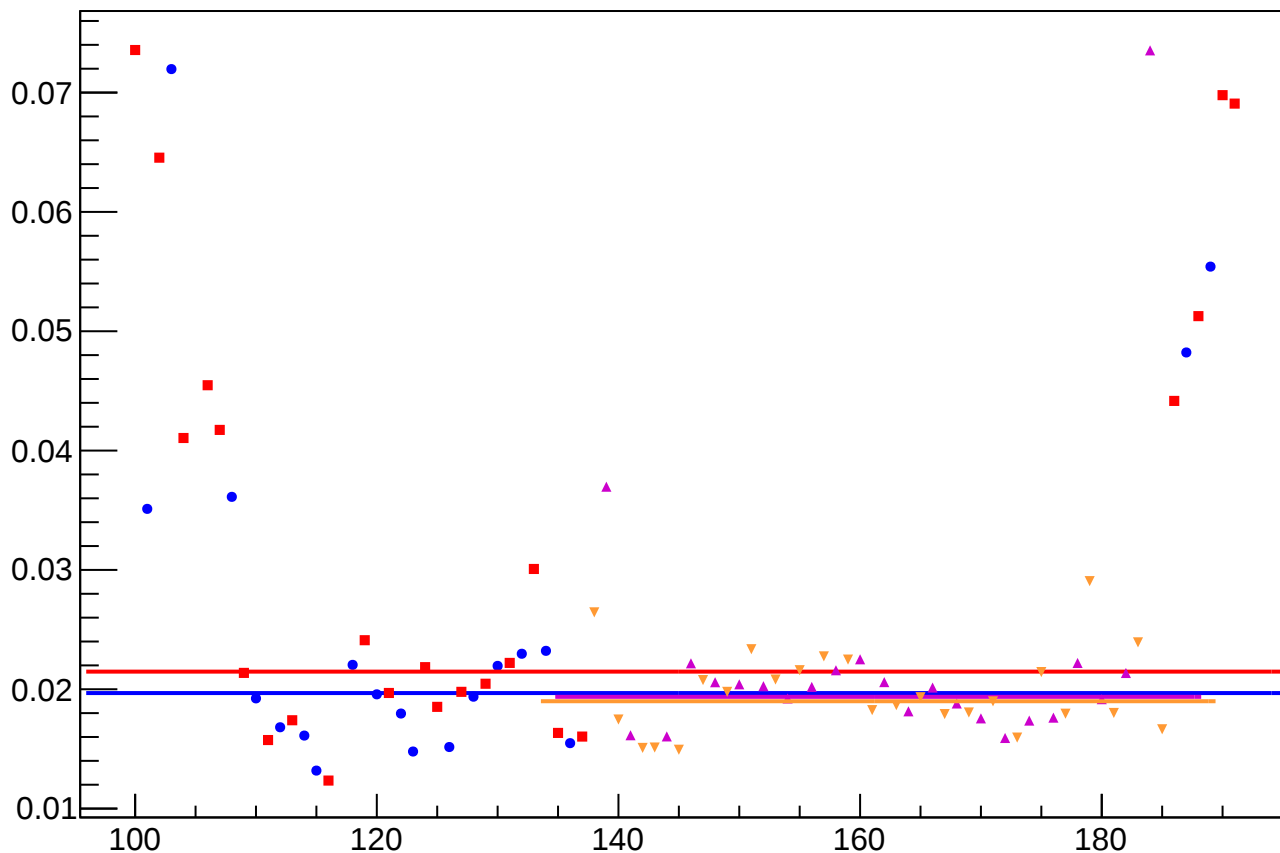
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 220113437.2/41$

In: -0.085 ± 0.000 $\chi^2/\text{NDF}: 450947331.2/41$

Out: -0.093 ± 0.000 $\chi^2/\text{NDF}: 532581685.5/47$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 985452499.7/89$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 1663859.0/18

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2827953.2/22

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

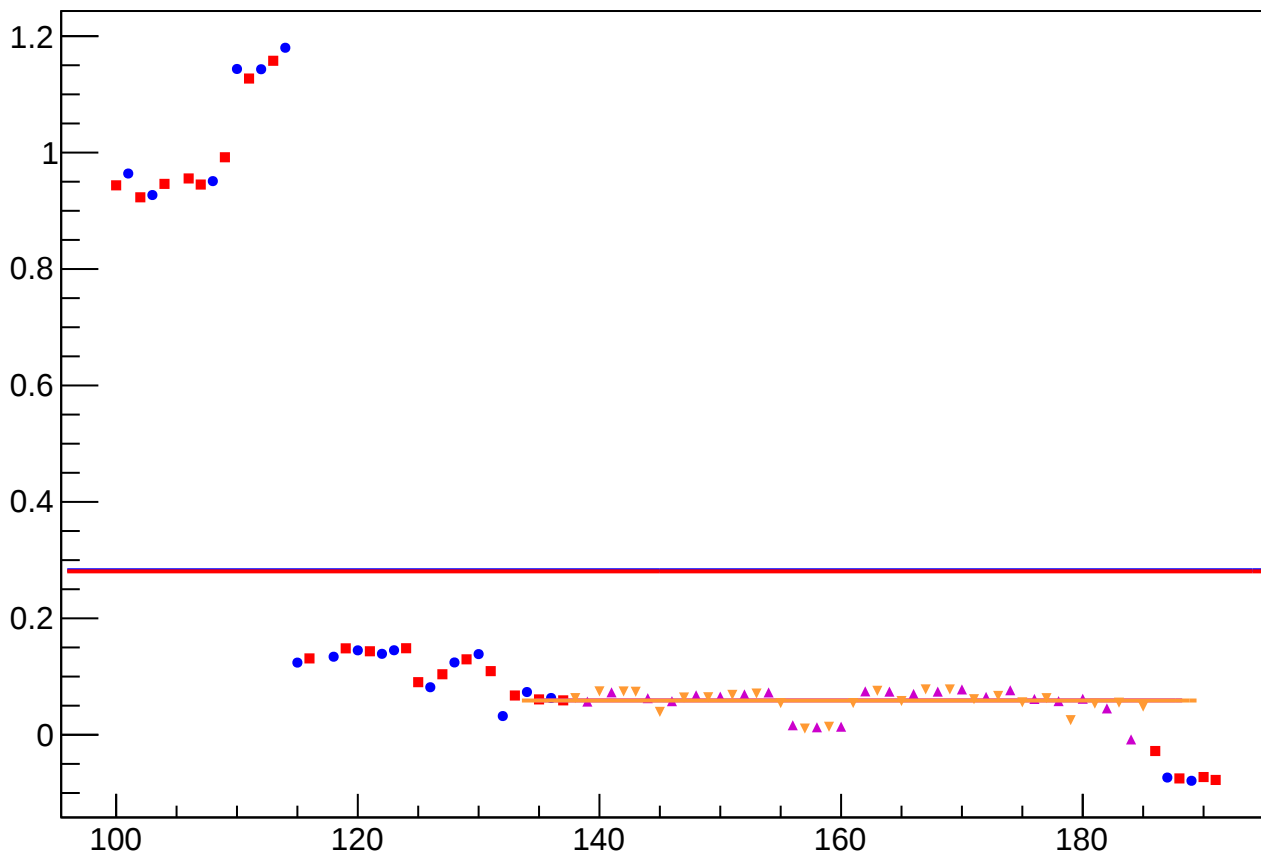
Right: 0.021+/-0.000 χ^2/NDF : 4536093.4/41

In: 0.019+/-0.000 χ^2/NDF : 2524087.5/41

Out: 0.020+/-0.000 χ^2/NDF : 3653559.6/47

All: 0.020+/-0.000 χ^2/NDF : 6179146.6/89

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.283+/-0.000 χ^2/NDF : 5417364011.6/18

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.281+/-0.000 χ^2/NDF : 6382792545.8/22

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

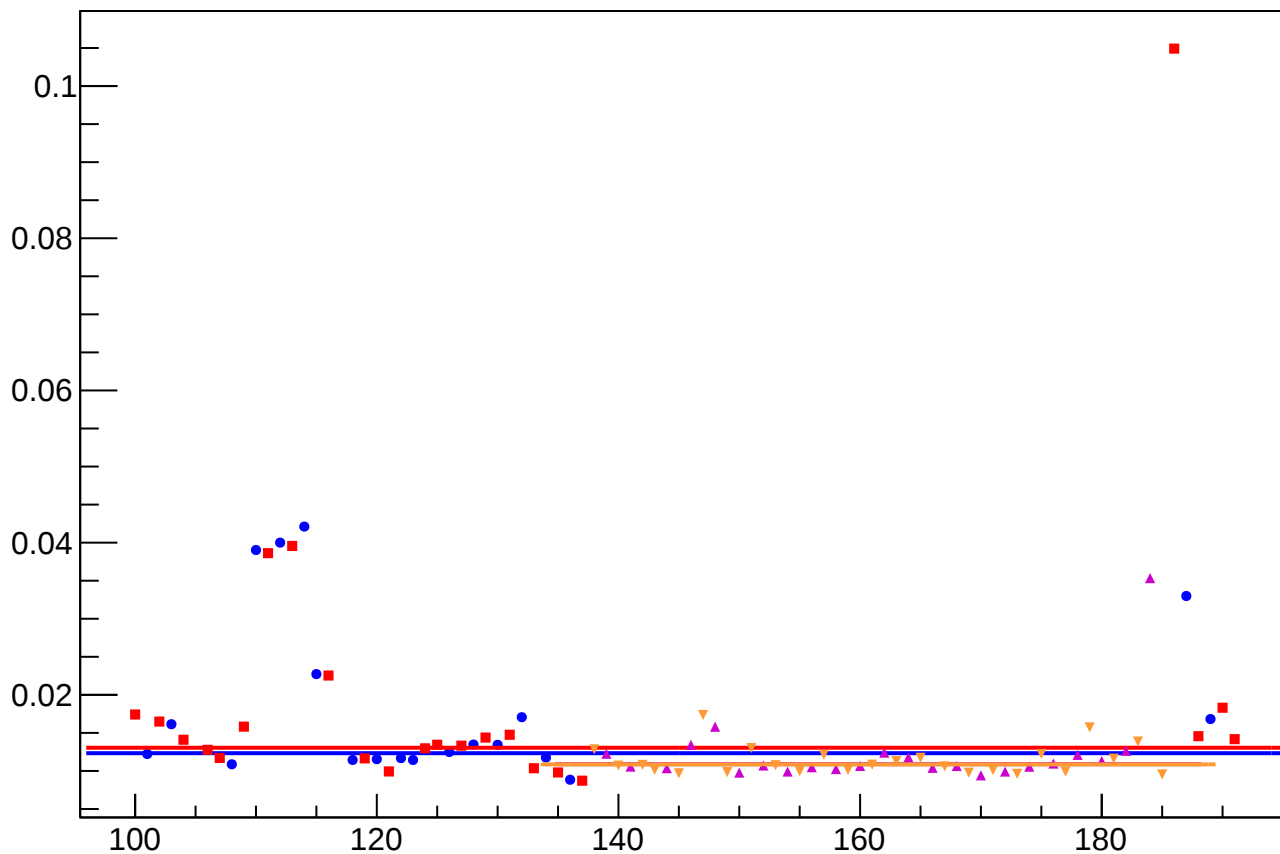
Right: 0.282+/-0.000 χ^2/NDF : 11800234484.2/41

In: 0.110+/-0.000 χ^2/NDF : 7035101725.8/41

Out: 0.110+/-0.000 χ^2/NDF : 8058626275.9/47

All: 0.110+/-0.000 χ^2/NDF : 15093756296.8/8

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1457403.5/18

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

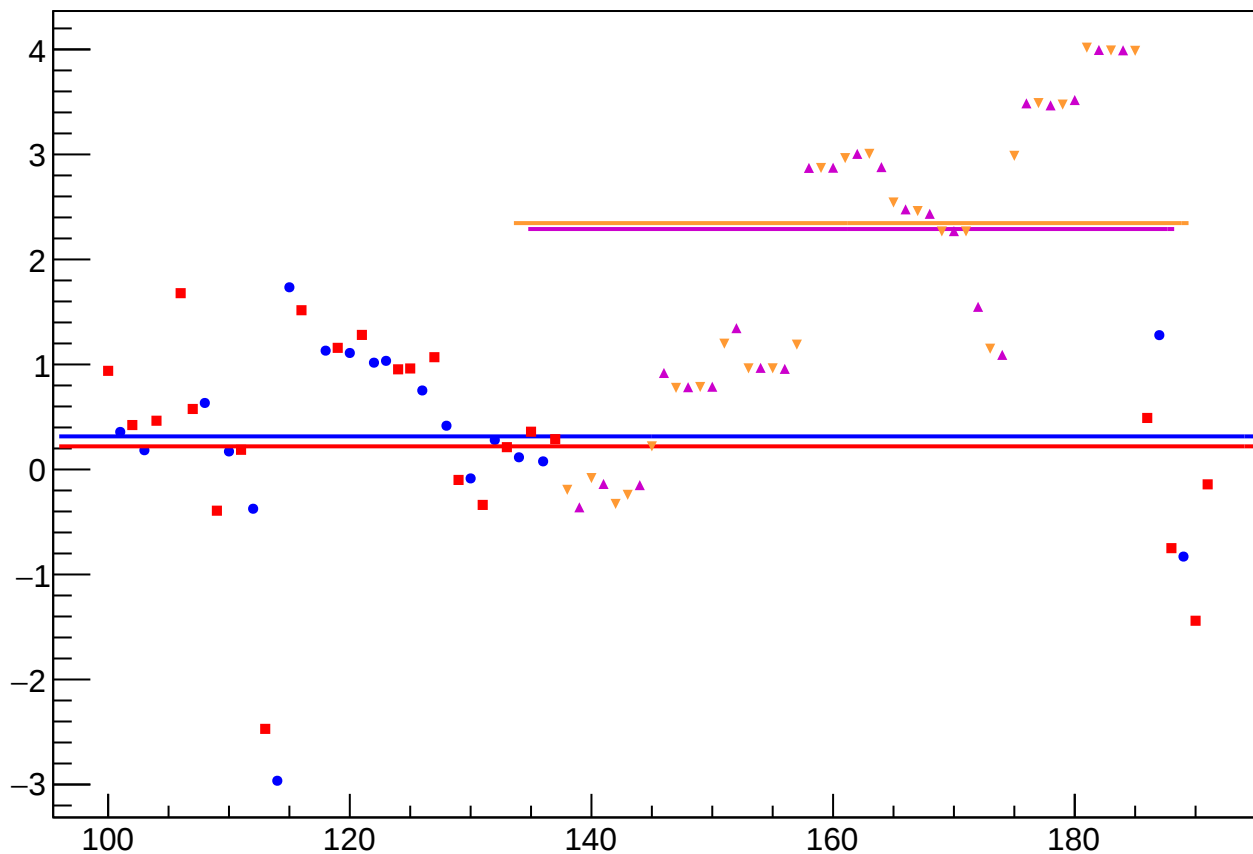
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3349863.8/41

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2117395.3/41

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2793346.0/47

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4914393.2/89

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.315 $\pm$ 0.000

χ^2/NDF : 531791174.5/18

Left: 2.318 $\pm$ 0.000

χ^2/NDF : 124438674298.4/47

Left Out: 2.346 $\pm$ 0.000

χ^2/NDF : 63481331015.4/24

Right: 0.265 $\pm$ 0.000

χ^2/NDF : 2191599289.9/41

Right Out: 0.220 $\pm$ 0.000

χ^2/NDF : 1650347238.6/22

In: 2.217 $\pm$ 0.000

χ^2/NDF : 68835030565.3/41

Out: 2.256 $\pm$ 0.000

χ^2/NDF : 74836660496.4/47

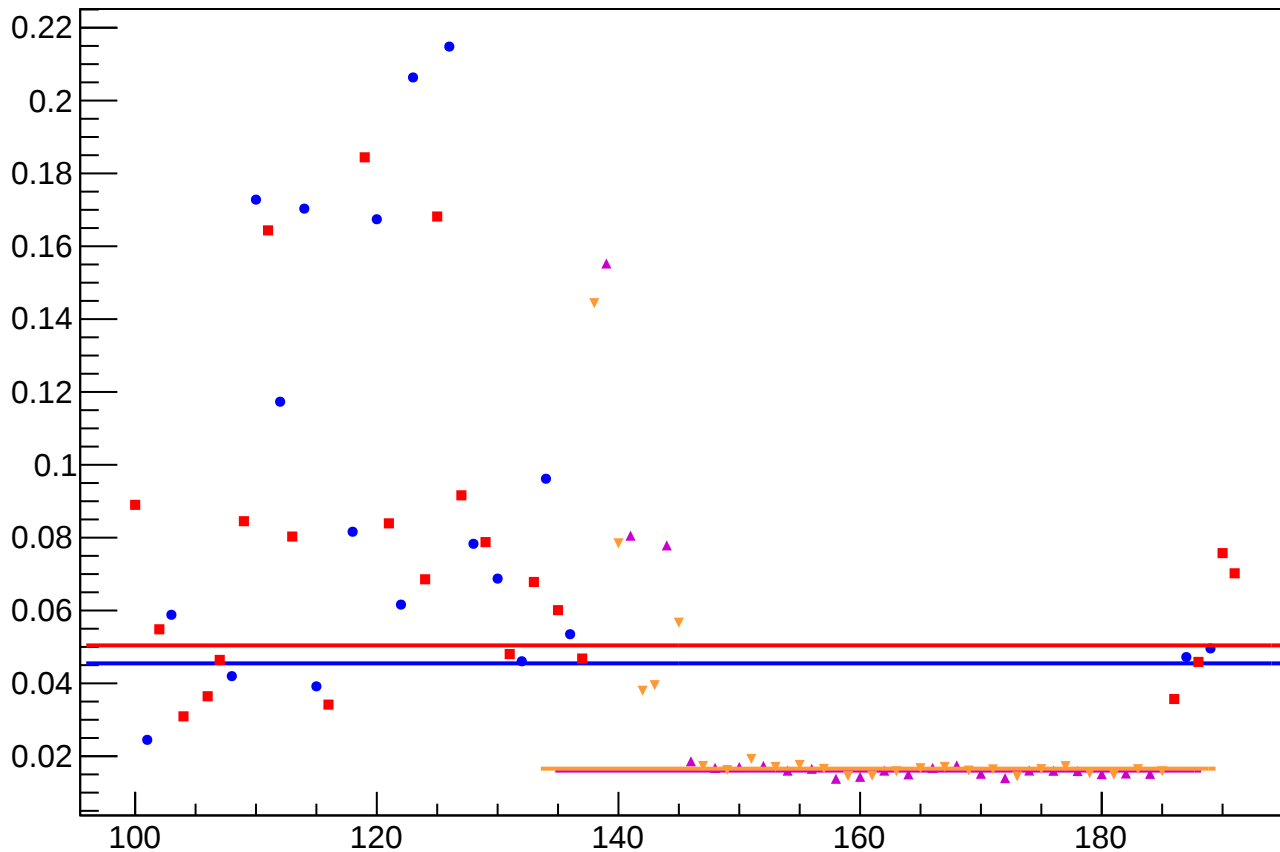
Left In: 2.290 $\pm$ 0.000

χ^2/NDF : 60875537647.3/22

All: 2.237 $\pm$ 0.000

χ^2/NDF : 143713159448.1

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2837353.1/18

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

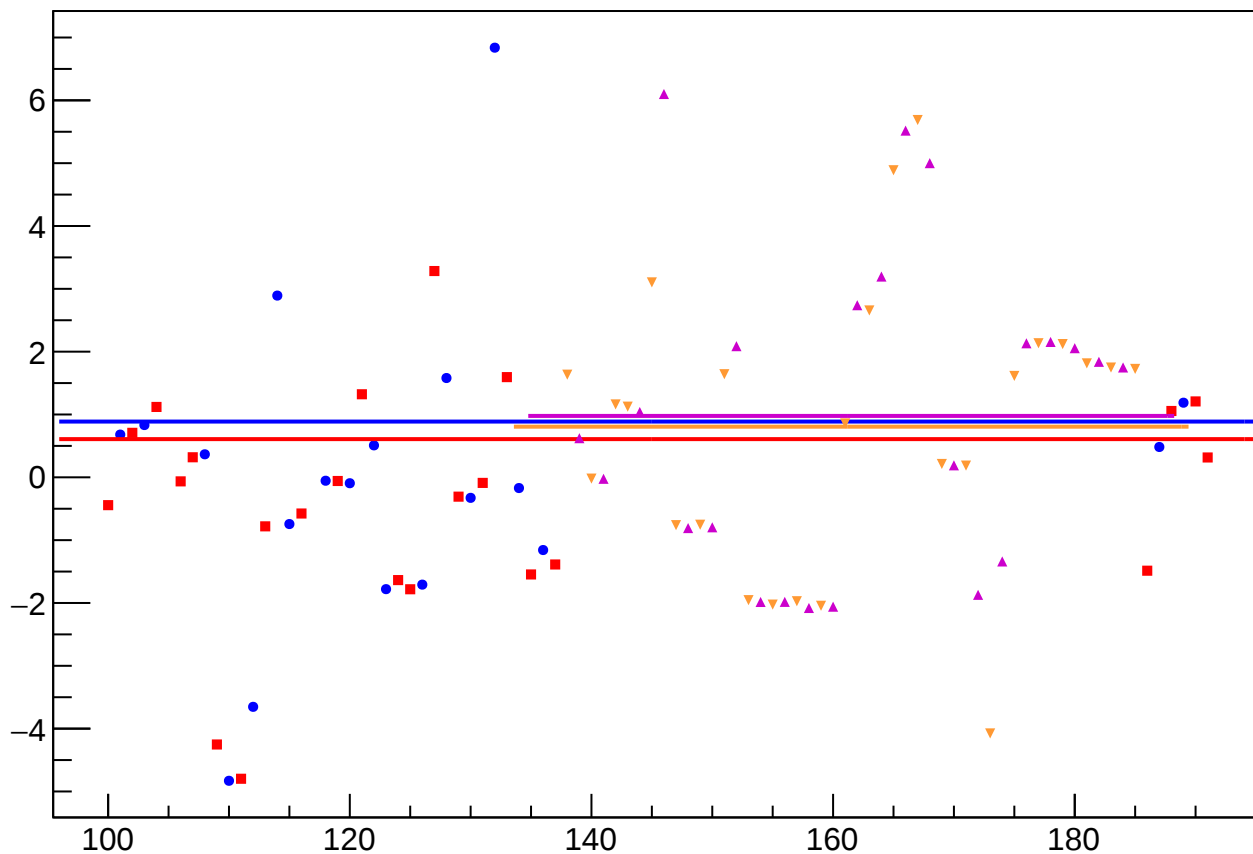
Right: 0.048+/-0.000 χ^2/NDF : 5318695.8/41

In: 0.017+/-0.000 χ^2/NDF : 8534522.4/41

Out: 0.018+/-0.000 χ^2/NDF : 9968479.1/47

All: 0.018+/-0.000 χ^2/NDF : 18544692.8/89

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.887 $\pm$ 0.000 χ^2 /NDF: 11027125255.4/18

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF: 507578952196.2/24

Right Out: 0.608 $\pm$ 0.000 χ^2 /NDF: 5736271602.8/22

Left In: 0.977 $\pm$ 0.000 χ^2 /NDF: 568209676597.4/22

Left: 0.892 $\pm$ 0.000 χ^2 /NDF: 1077036497291.8/47

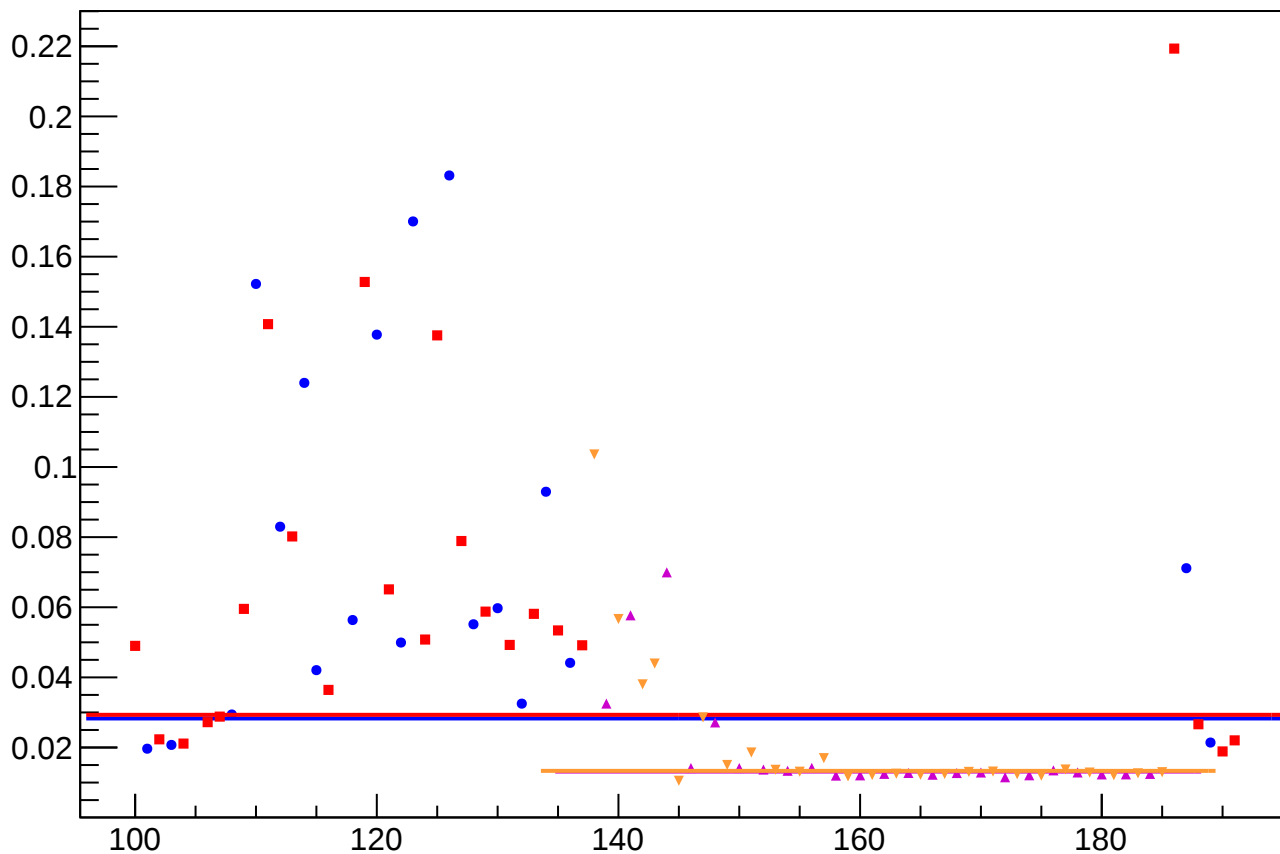
Right: 0.734 $\pm$ 0.000 χ^2 /NDF: 16967804573.3/41

In: 0.973 $\pm$ 0.000 χ^2 /NDF: 579273470668.9/41

Out: 0.793 $\pm$ 0.000 χ^2 /NDF: 513527689640.0/47

All: 0.883 $\pm$ 0.000 χ^2 /NDF: 1094250928536.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 3222080.0/18

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

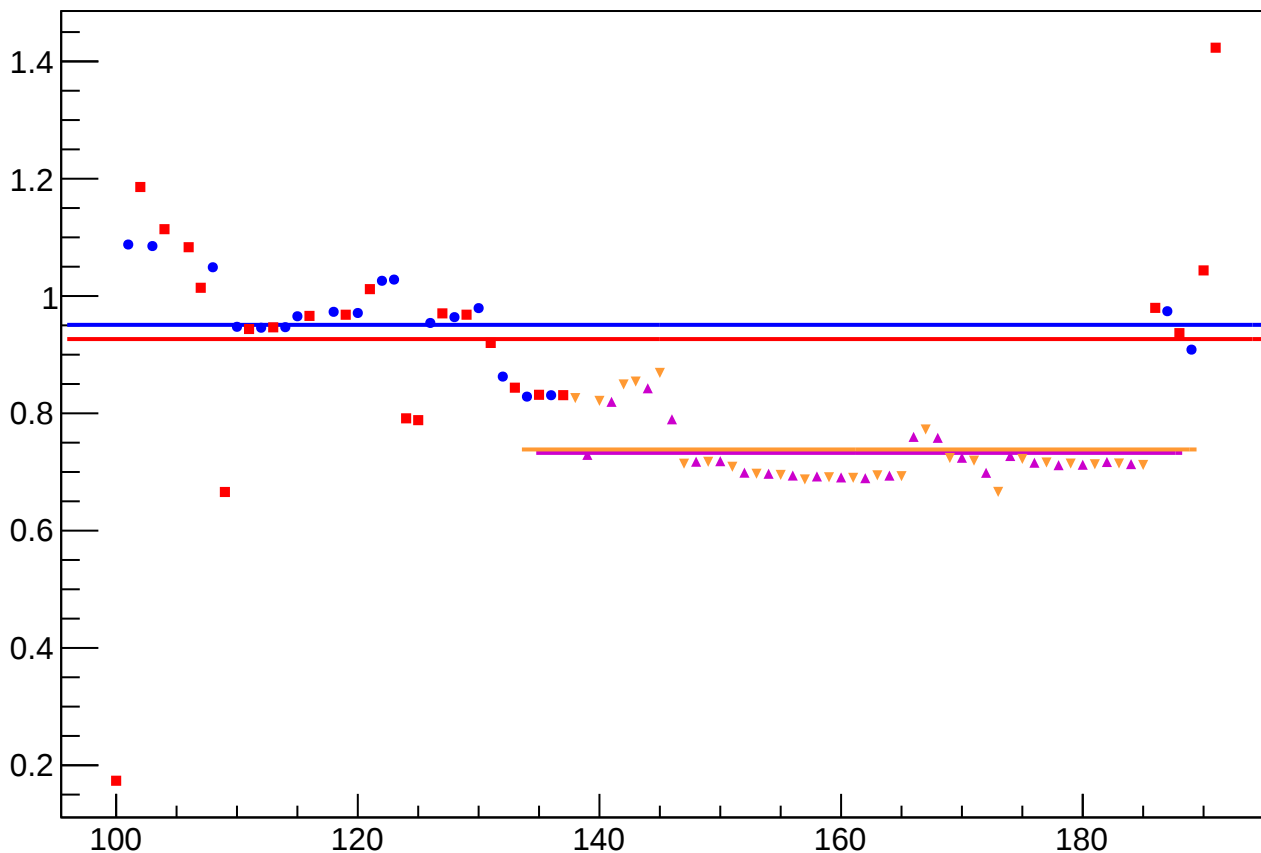
Right: 0.029+/-0.000 χ^2/NDF : 7176220.4/41

In: 0.014+/-0.000 χ^2/NDF :7245095.1/41

Out: 0.014+/-0.000 χ^2/NDF :9546822.8/47

All: 0.014+/-0.000 χ^2/NDF : 16807570.9/89

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.951+/-0.000 χ^2/NDF : 175204395.5/18

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

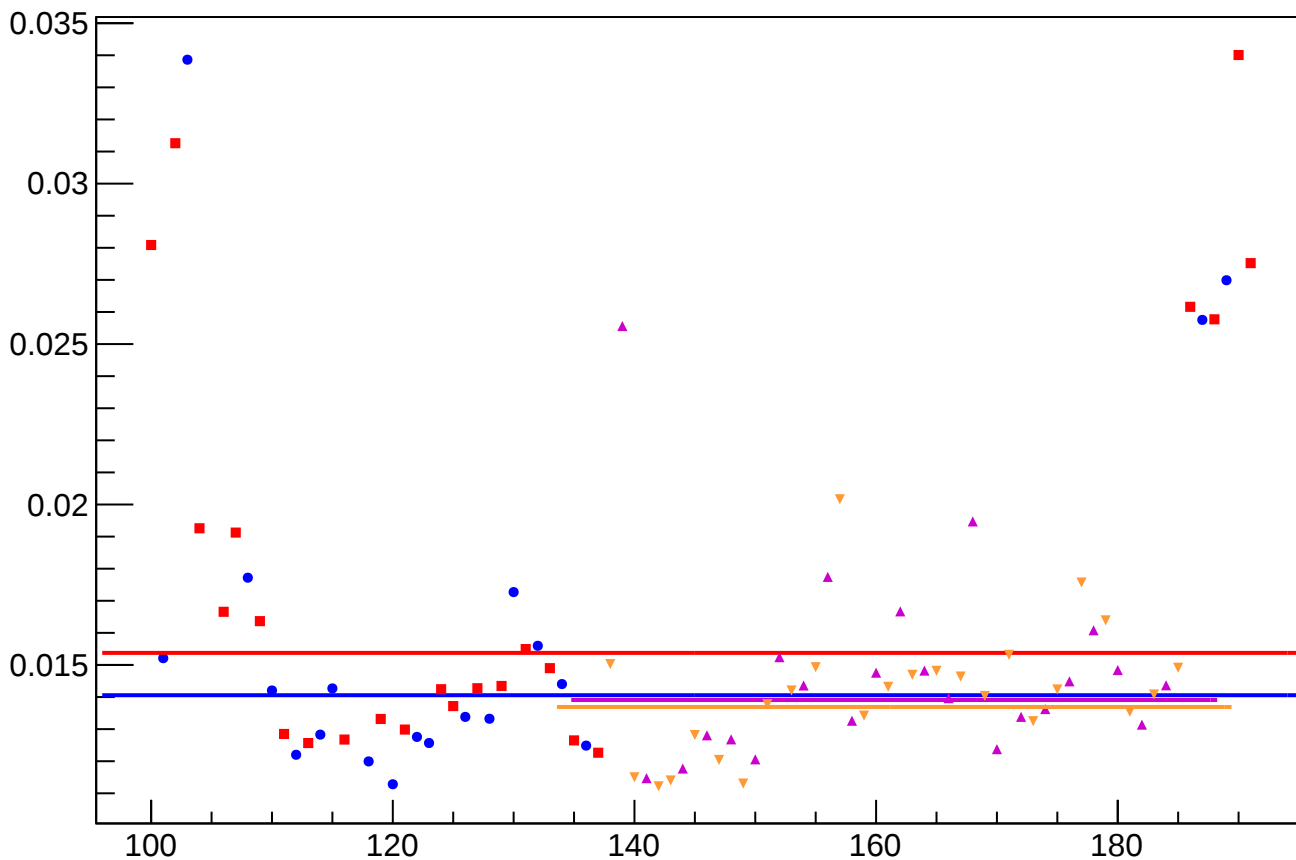
Right: 0.939+/-0.000 χ^2/NDF : 639057371.8/41

In: 0.795+/-0.000 χ^2/NDF : 1425608579.6/41

Out: 0.789+/-0.000 χ^2/NDF : 1585395786.0/47

All: 0.792+/-0.000 χ^2/NDF : 3012827055.0/89

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 821353.3/18

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

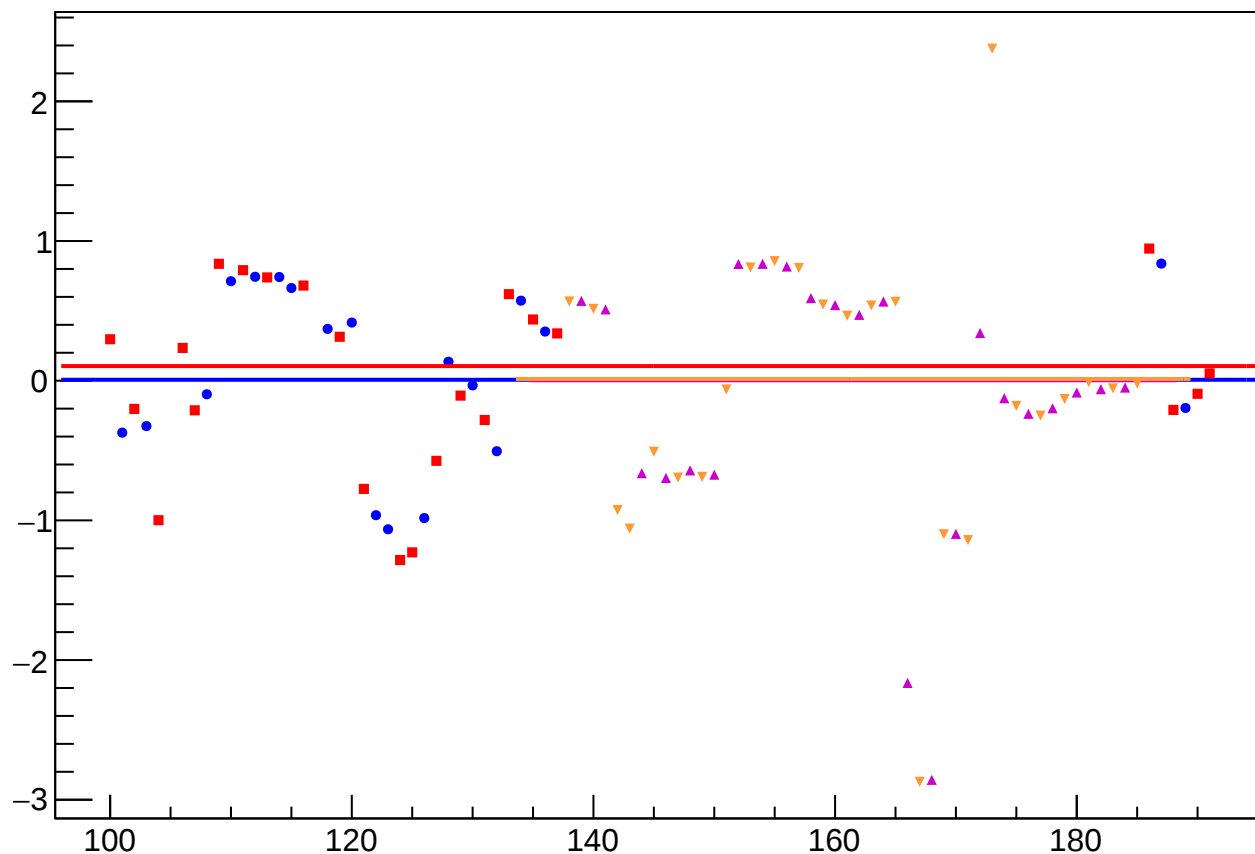
Right: 0.015+/-0.000 χ^2/NDF : 2128994.8/41

In: 0.014+/-0.000 χ^2/NDF :1590529.4/41

Out: 0.014+/-0.000 χ^2/NDF :1912711.8/47

All: 0.014+/-0.000 χ^2/NDF : 3507505.7/89

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.007+/-0.000

χ^2/NDF : 6457076370.9/18

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

Right: 0.063+/-0.000 χ^2/NDF : 19755758489.7/41

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

In: 0.004+/-0.000 χ^2/NDF : 85283815441.5/41

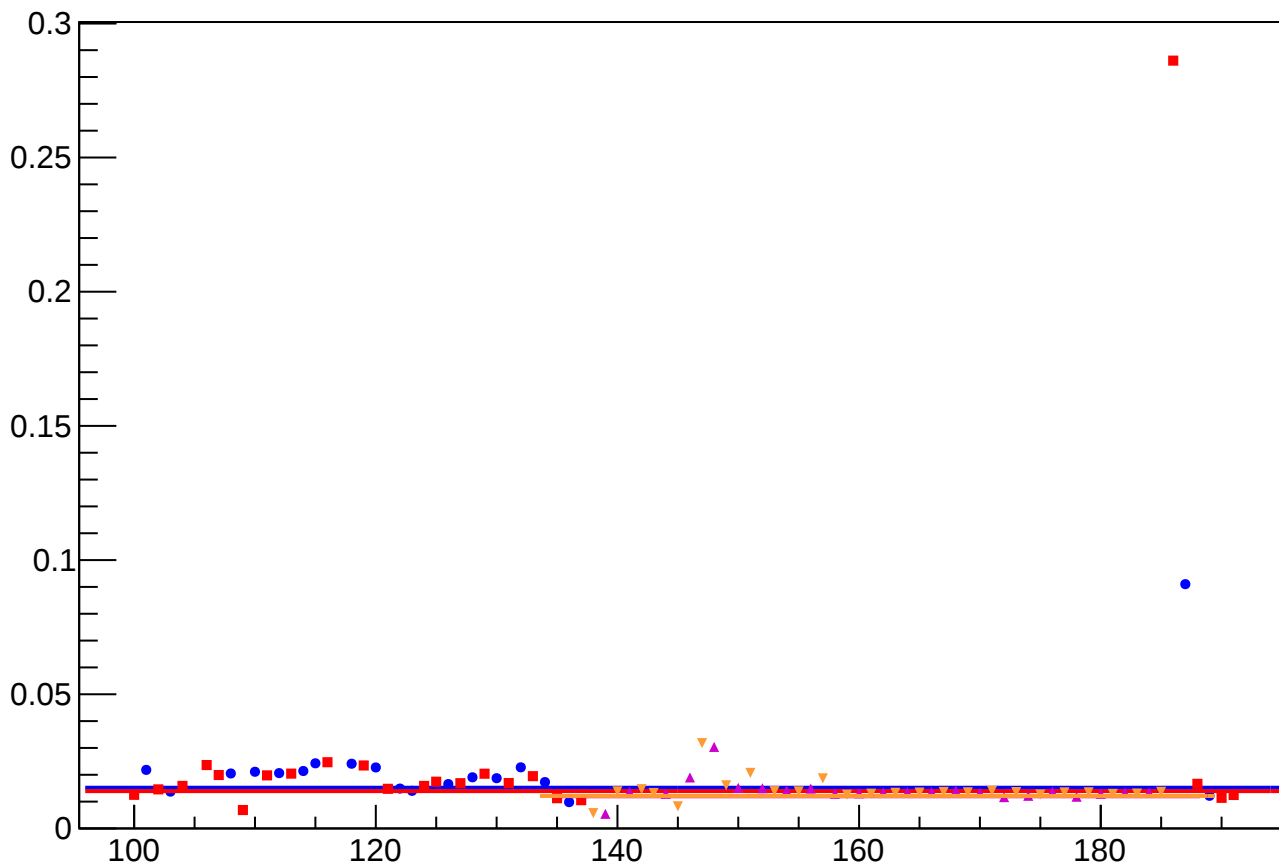
Right Out: 0.105+/-0.000 χ^2/NDF : 13155019638.2/22

Out: 0.035+/-0.000 χ^2/NDF : 109763408563.6/47

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

All: 0.020+/-0.000 χ^2/NDF : 195112313204.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1404426.2/18

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3105238.9/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 2262163.4/22

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3003502.9/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6110012.2/47

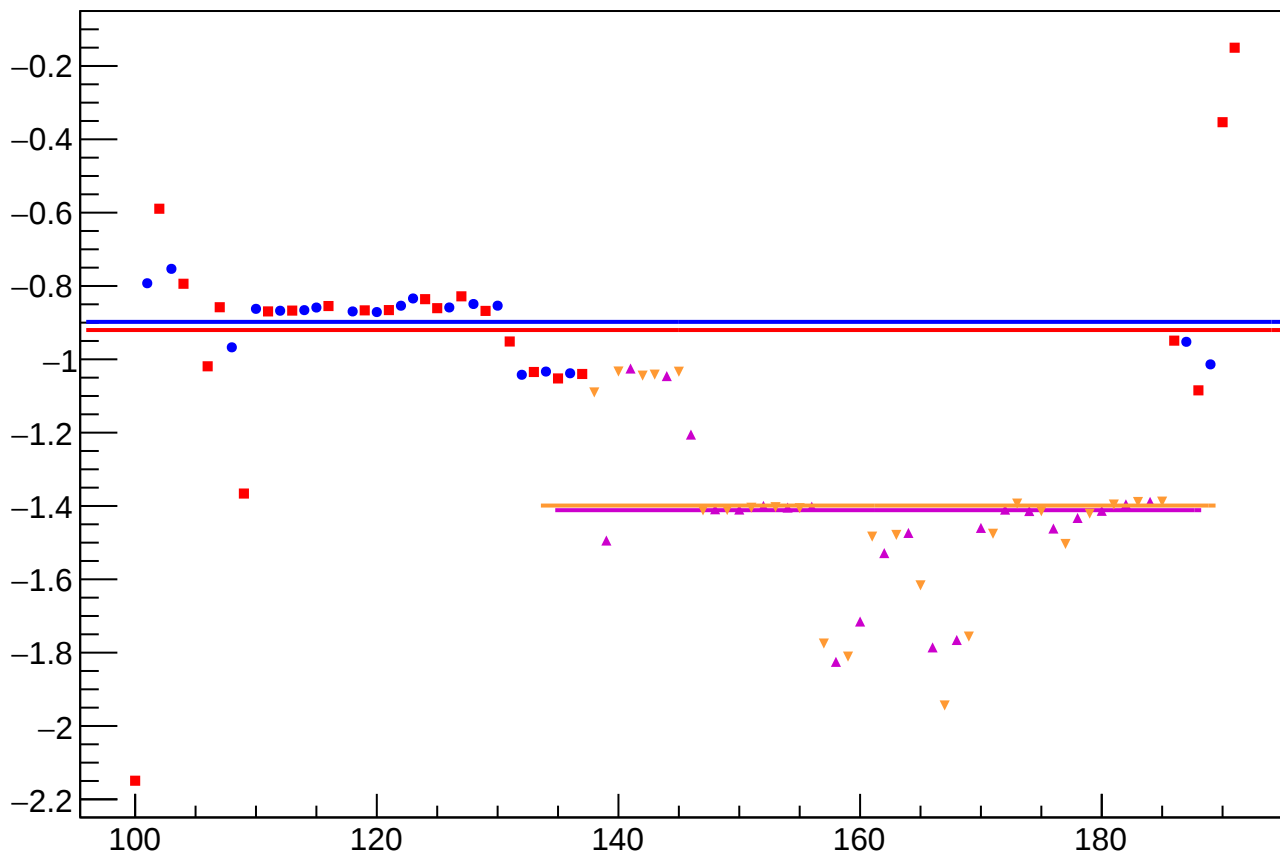
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 3713740.7/41

In: 0.013 $\pm$ 0.000 χ^2 /NDF:4829349.9/41

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:5539407.6/47

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 10369875.5/89

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.898+/-0.000 χ^2/NDF : 39714991.8/18

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

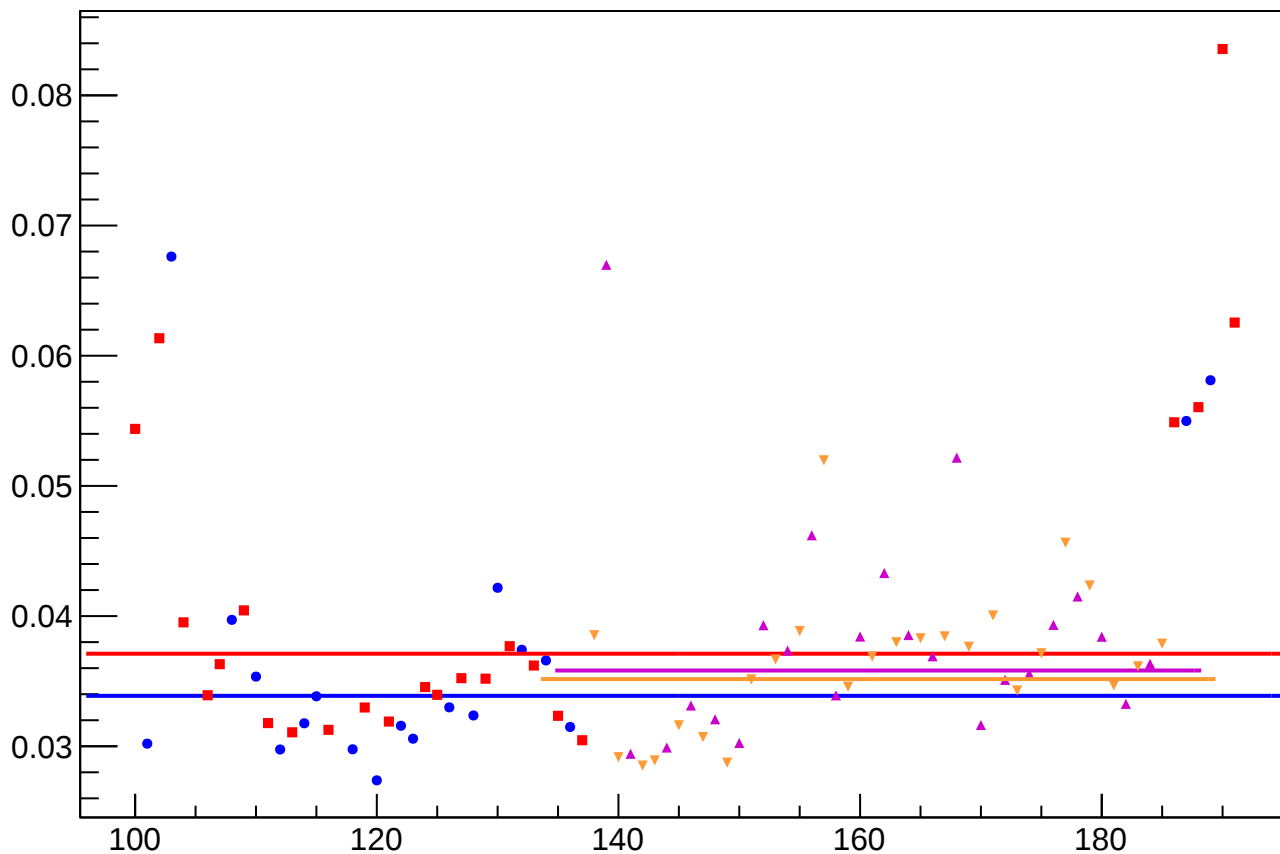
Right: -0.909+/-0.000 χ^2/NDF : 226271991.7/41

In: -1.249+/-0.000 χ^2/NDF : 1547660740.9/41

Out: -1.256+/-0.000 χ^2/NDF : 1812145517.5/47

All: -1.252+/-0.000 χ^2/NDF : 3360242222.6/8

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 613329.9/18

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

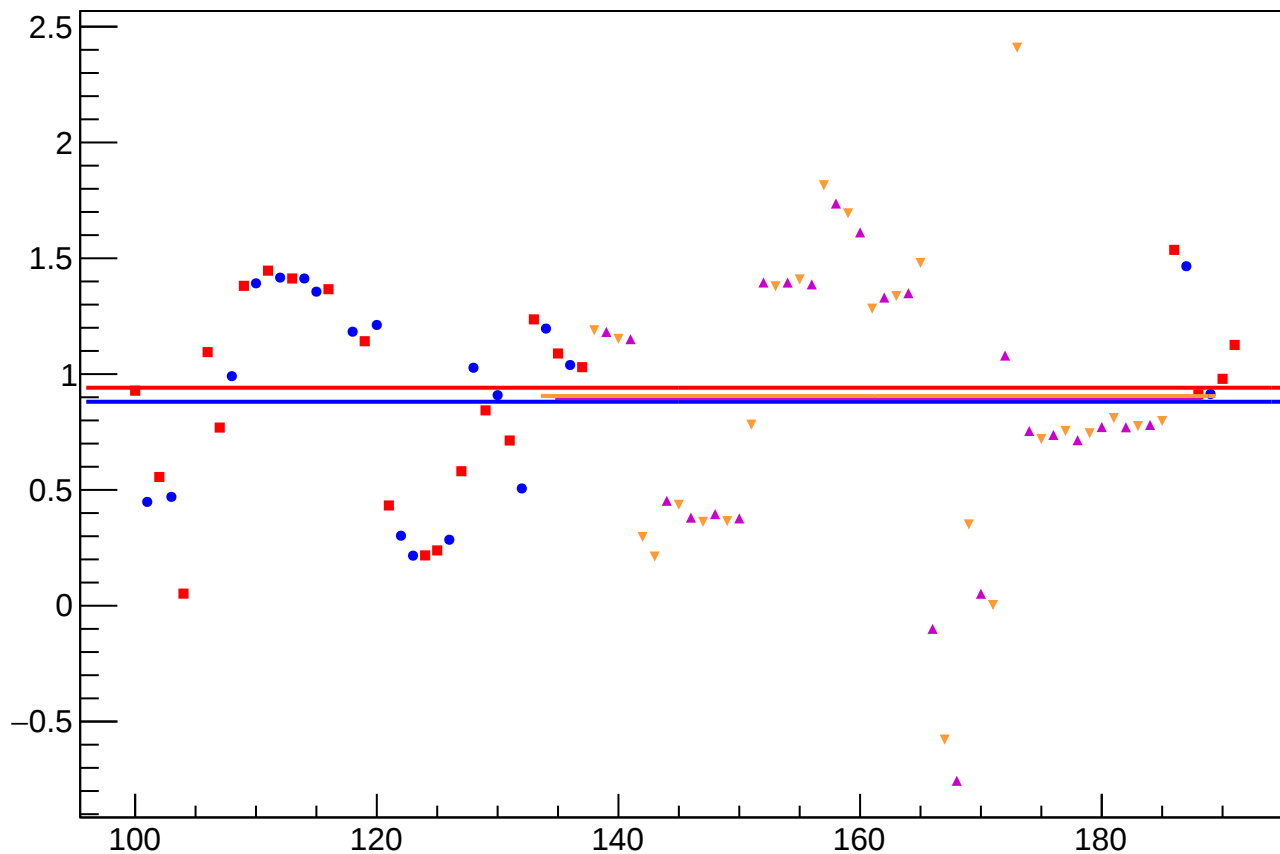
Right: 0.035+/-0.000 χ^2/NDF : 1549645.8/41

In: 0.035+/-0.000 χ^2/NDF : 1506038.6/41

Out: 0.036+/-0.000 χ^2/NDF : 1503106.6/47

All: 0.035+/-0.000 χ^2/NDF : 3014401.7/89

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.881 $\pm$ 0.000

χ^2 /NDF: 6511289589.0/18

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 0.914 $\pm$ 0.000 χ^2 /NDF: 16699641240.4/41

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.893 $\pm$ 0.000 χ^2 /NDF: 73116299180.6/41

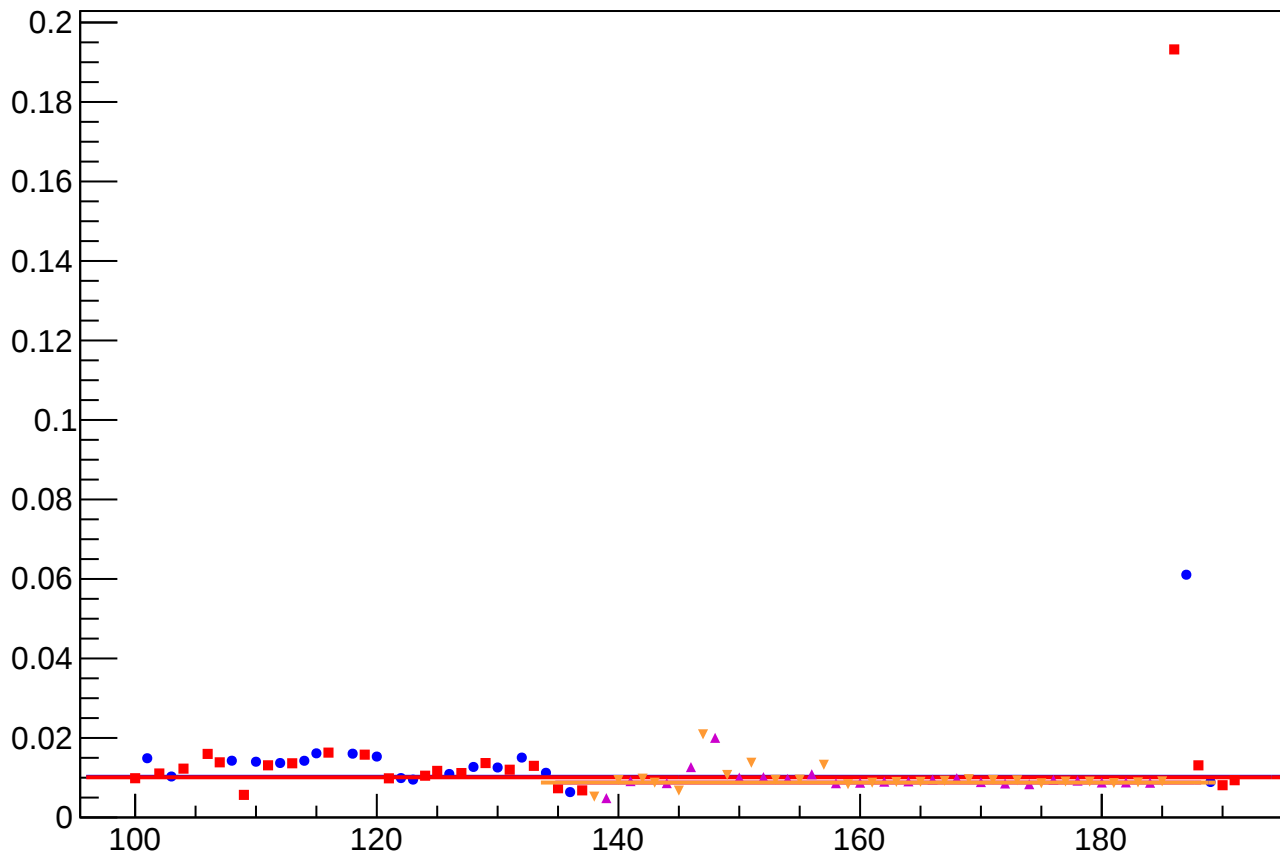
Right Out: 0.941 $\pm$ 0.000 χ^2 /NDF: 10074280840.2/22

Out: 0.914 $\pm$ 0.000 χ^2 /NDF: 94407066293.9/47

Left In: 0.896 $\pm$ 0.000 χ^2 /NDF: 66594200889.6/22

All: 0.904 $\pm$ 0.000 χ^2 /NDF: 167583886830.3

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1440917.2/18

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

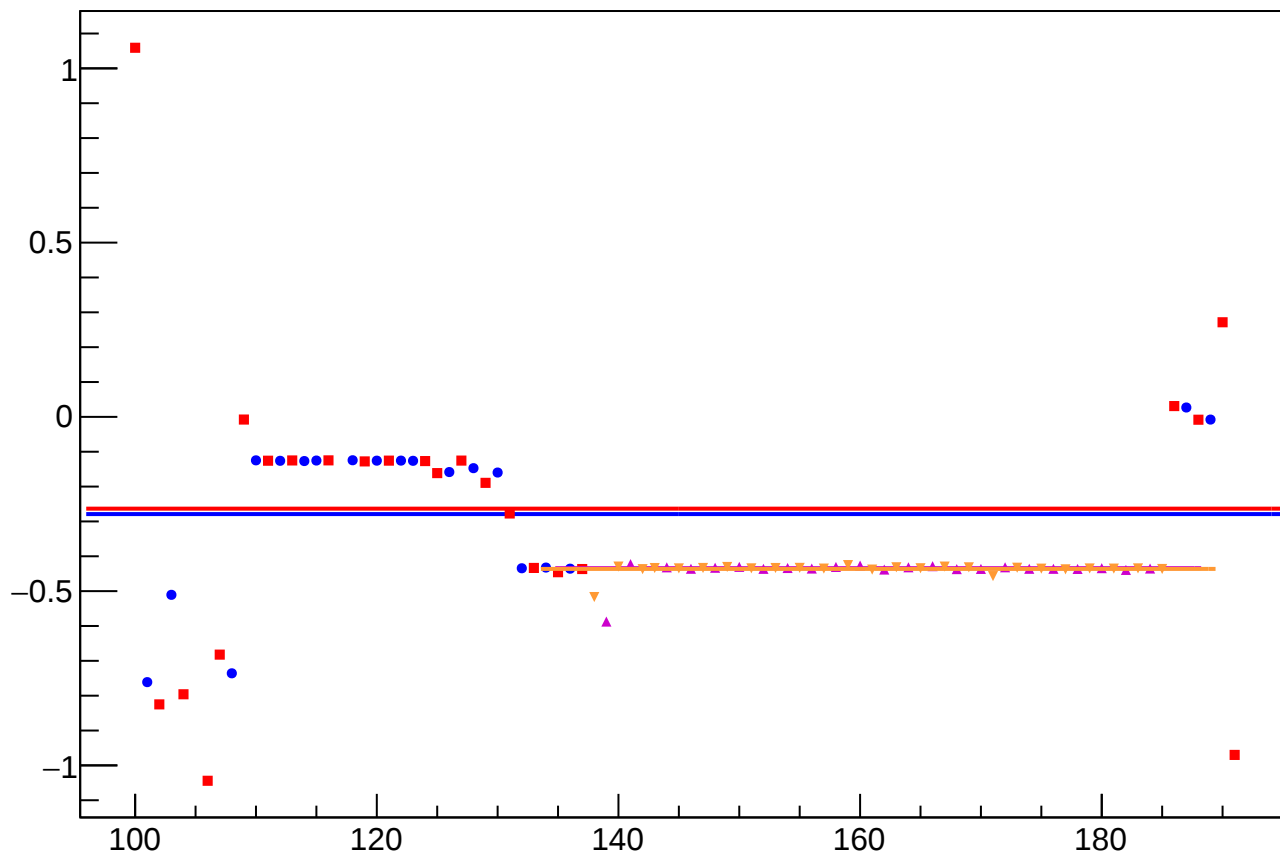
Right: 0.010+/-0.000 χ^2/NDF : 3357095.9/41

In: 0.009+/-0.000 χ^2/NDF :3238537.9/41

Out: 0.009+/-0.000 χ^2/NDF :3796459.2/47

All: 0.009+/-0.000 χ^2/NDF : 7035001.3/89

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.279+/-0.000 χ^2/NDF : 925286386.0/18

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.263+/-0.000 χ^2/NDF : 1057613289.9/22

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

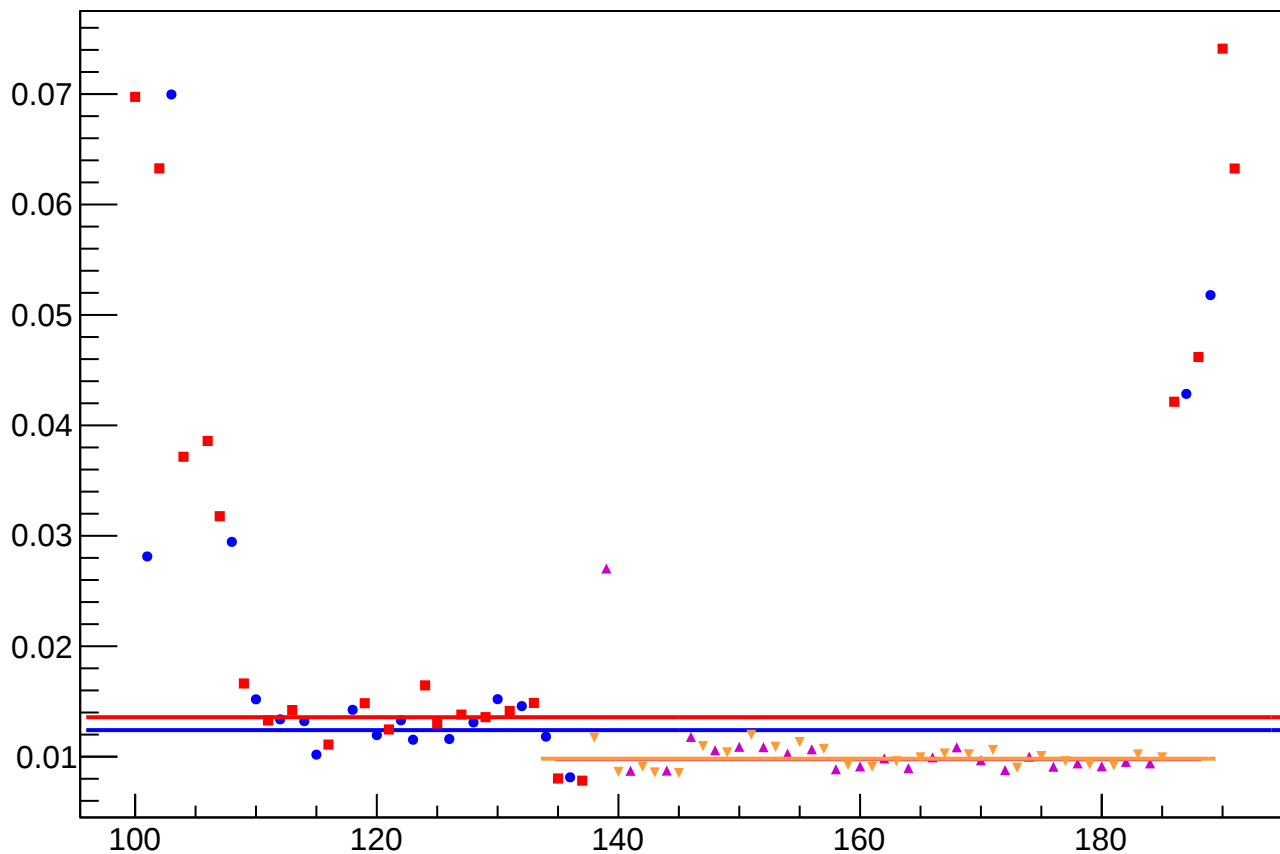
Right: -0.271+/-0.000 χ^2/NDF : 1986716760.6/41

In: -0.407+/-0.000 χ^2/NDF : 1589194179.7/41

Out: -0.409+/-0.000 χ^2/NDF : 1853773922.4/47

All: -0.408+/-0.000 χ^2/NDF : 3443289185.3/8

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2378847.2/18

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

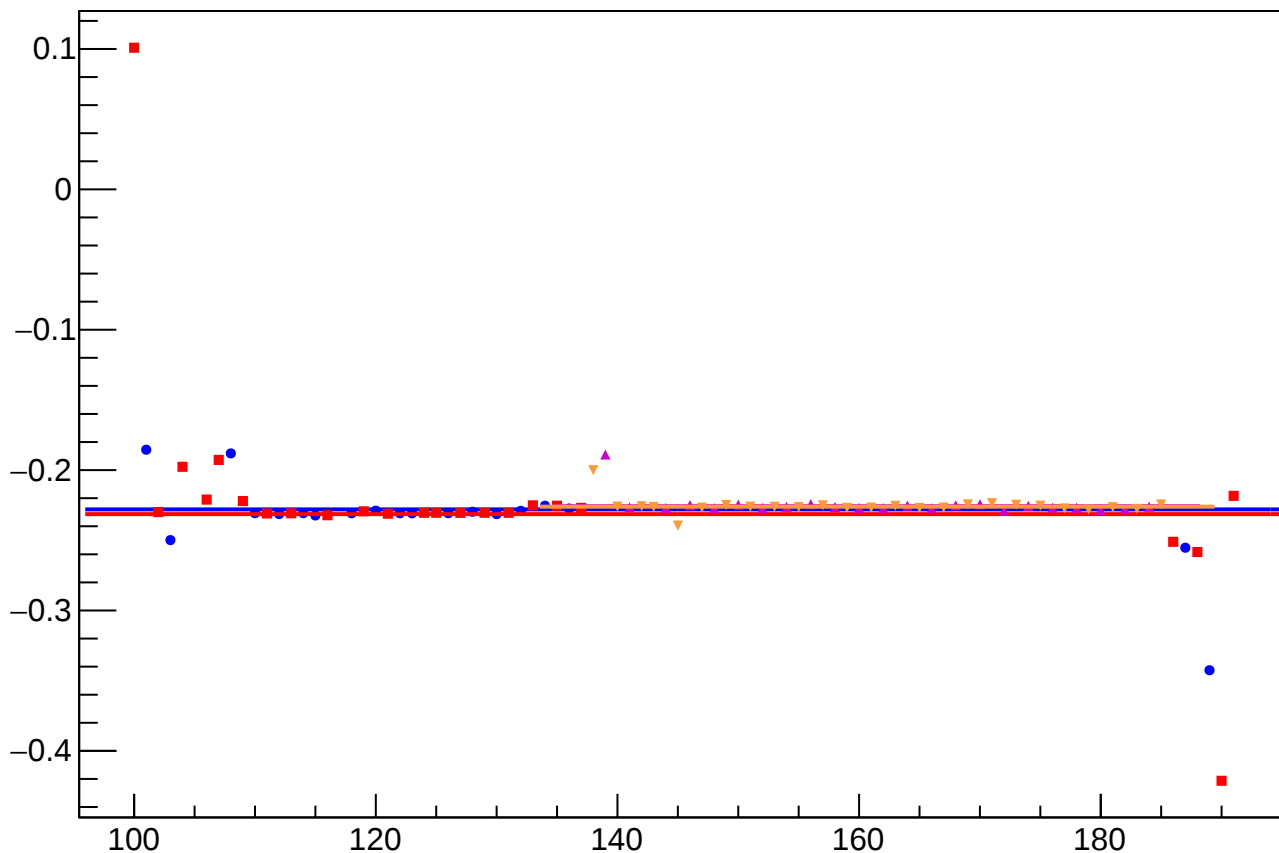
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 6333509.0/41

In: 0.010 $\pm$ 0.000 χ^2 /NDF:3494186.0/41

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:4904595.9/47

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 8404955.7/89

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.228+/-0.000 χ^2/NDF : 207593460.2/18

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

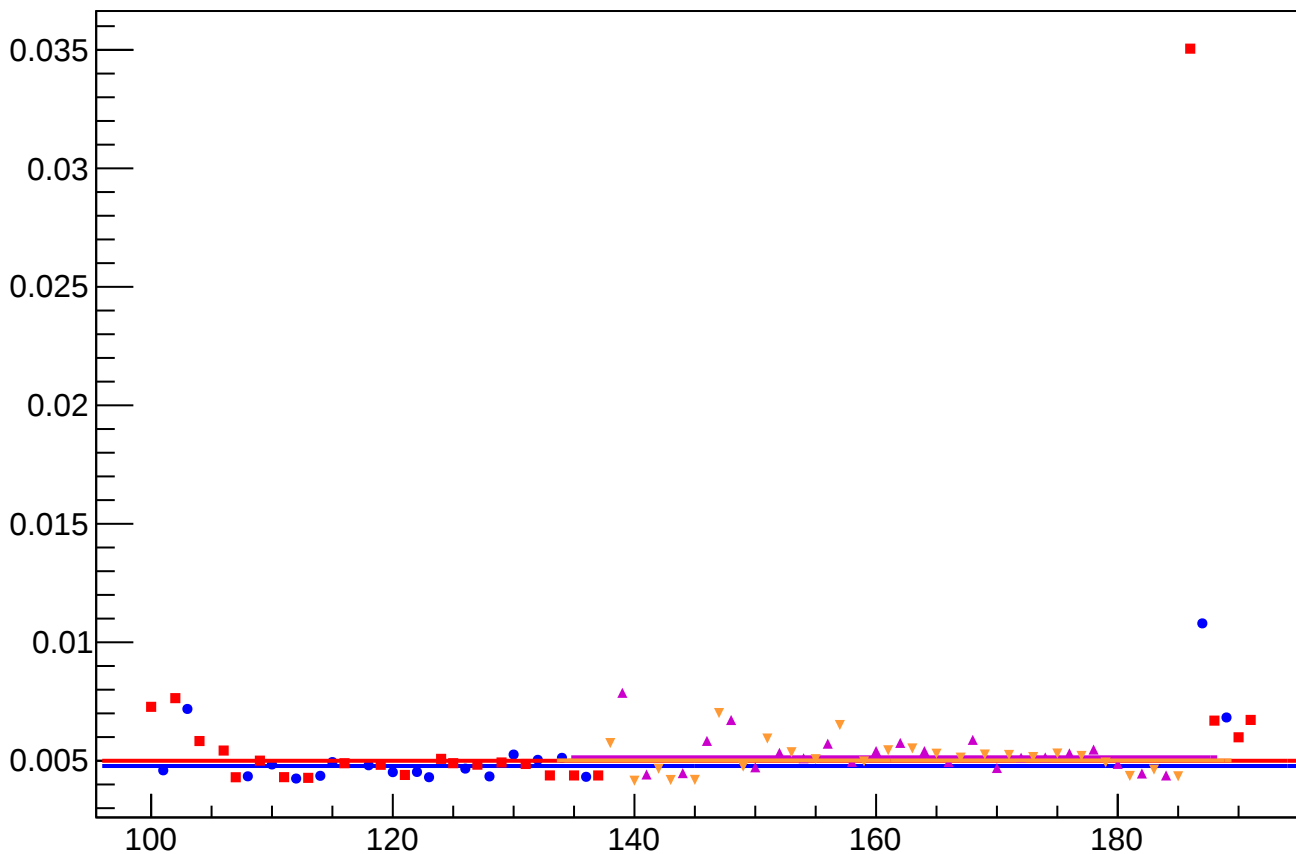
Right: -0.230+/-0.000 χ^2/NDF : 742791065.4/41

In: -0.226+/-0.000 χ^2/NDF : 223845011.8/41

Out: -0.228+/-0.000 χ^2/NDF : 560807006.5/47

All: -0.227+/-0.000 χ^2/NDF : 785392150.2/89

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 353941.6/18

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

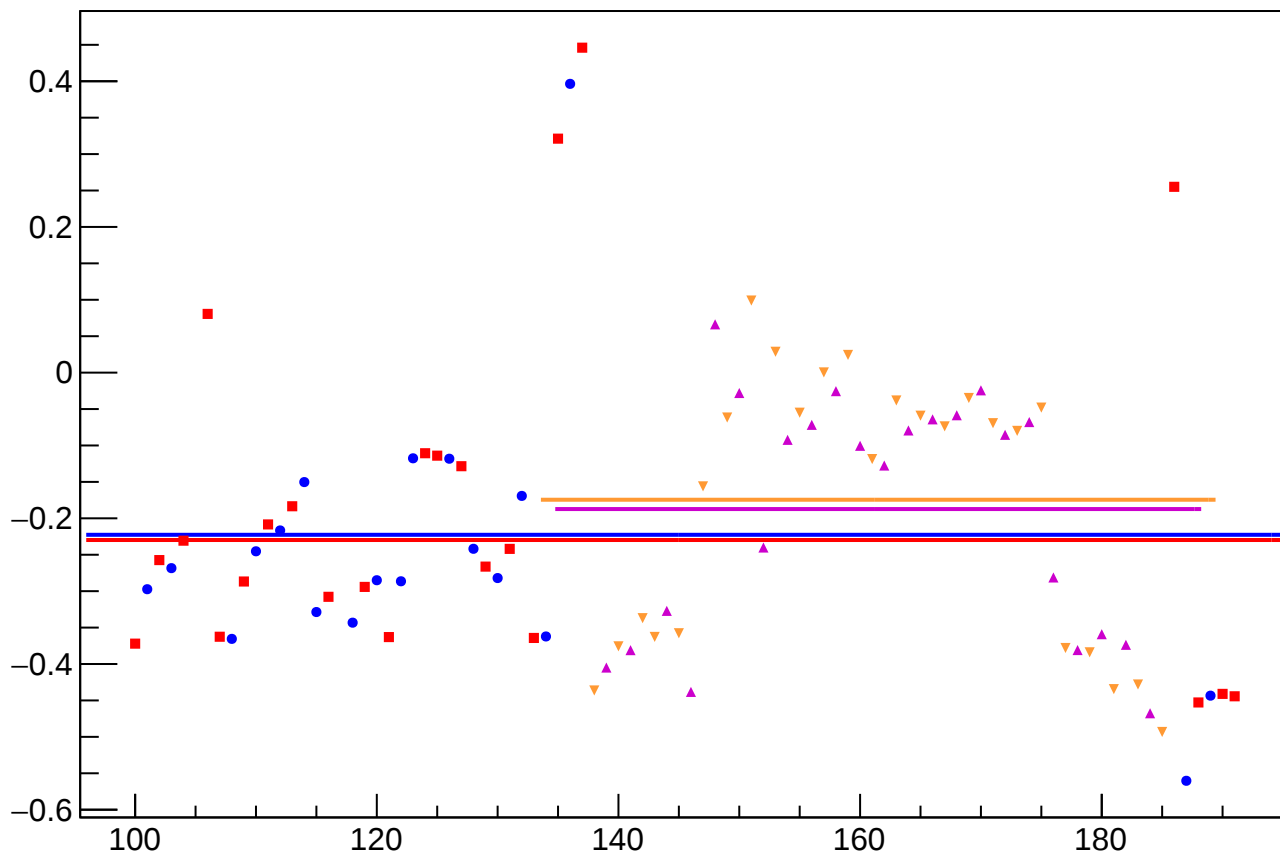
Right: 0.005+/-0.000 χ^2/NDF : 1320587.4/41

In: 0.005+/-0.000 χ^2/NDF : 899631.2/41

Out: 0.005+/-0.000 χ^2/NDF : 1482807.5/47

All: 0.005+/-0.000 χ^2/NDF : 2382832.7/89

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.223+/-0.000 χ^2/NDF : 6841723559.2/18

Left Out: -0.174+/-0.000 χ^2/NDF : 18025533236.1/24

Right Out: -0.230+/-0.000 χ^2/NDF : 8493289421.6/22

Left In: -0.187+/-0.000 χ^2/NDF : 12816646575.4/22

Left: -0.181+/-0.000 χ^2/NDF : 30888184231.6/47

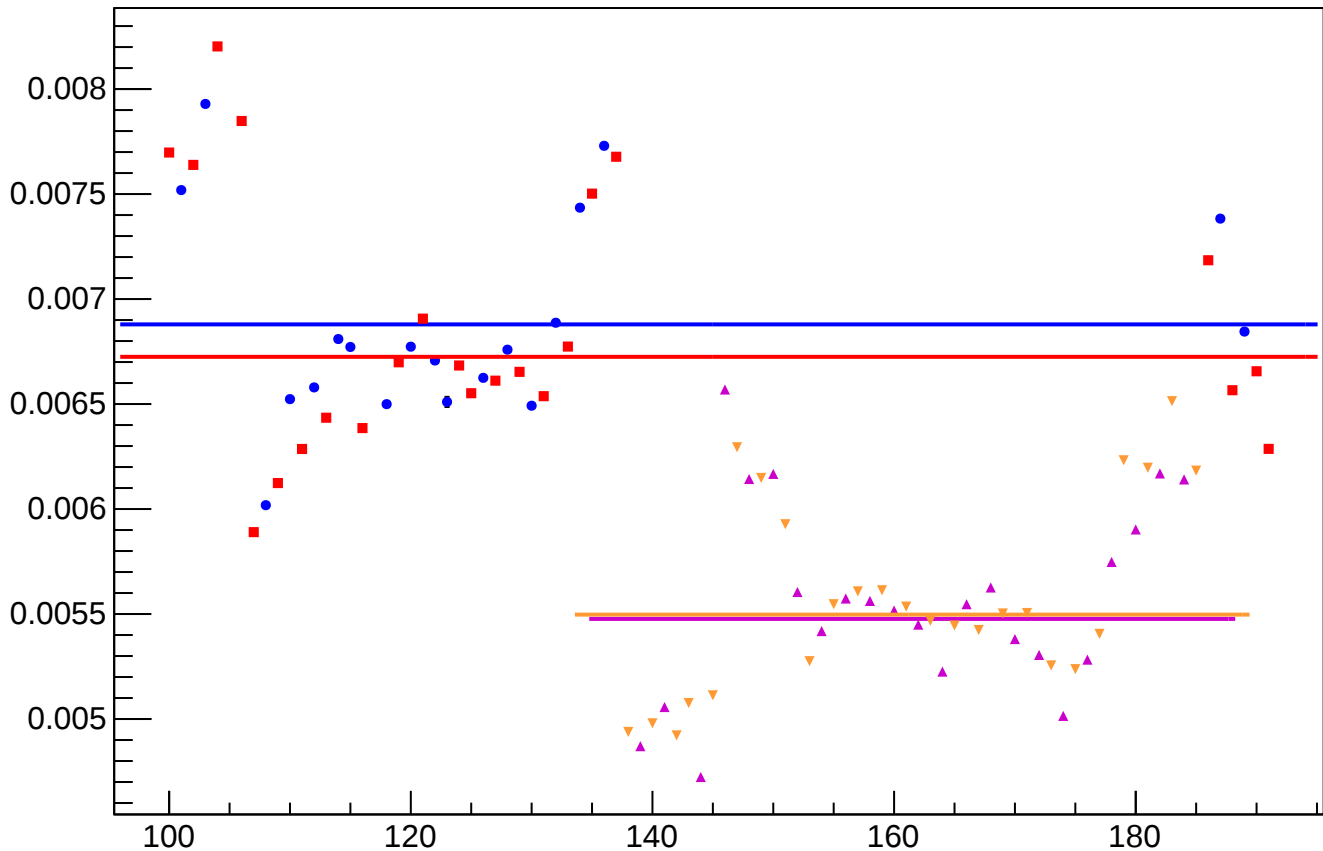
Right: -0.227+/-0.000 χ^2/NDF : 15339362503.3/41

In: -0.195+/-0.000 χ^2/NDF : 19806398661.8/41

Out: -0.188+/-0.000 χ^2/NDF : 26960151785.7/47

All: -0.191+/-0.000 χ^2/NDF : 46782692714.9/94

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 80096.1/18

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

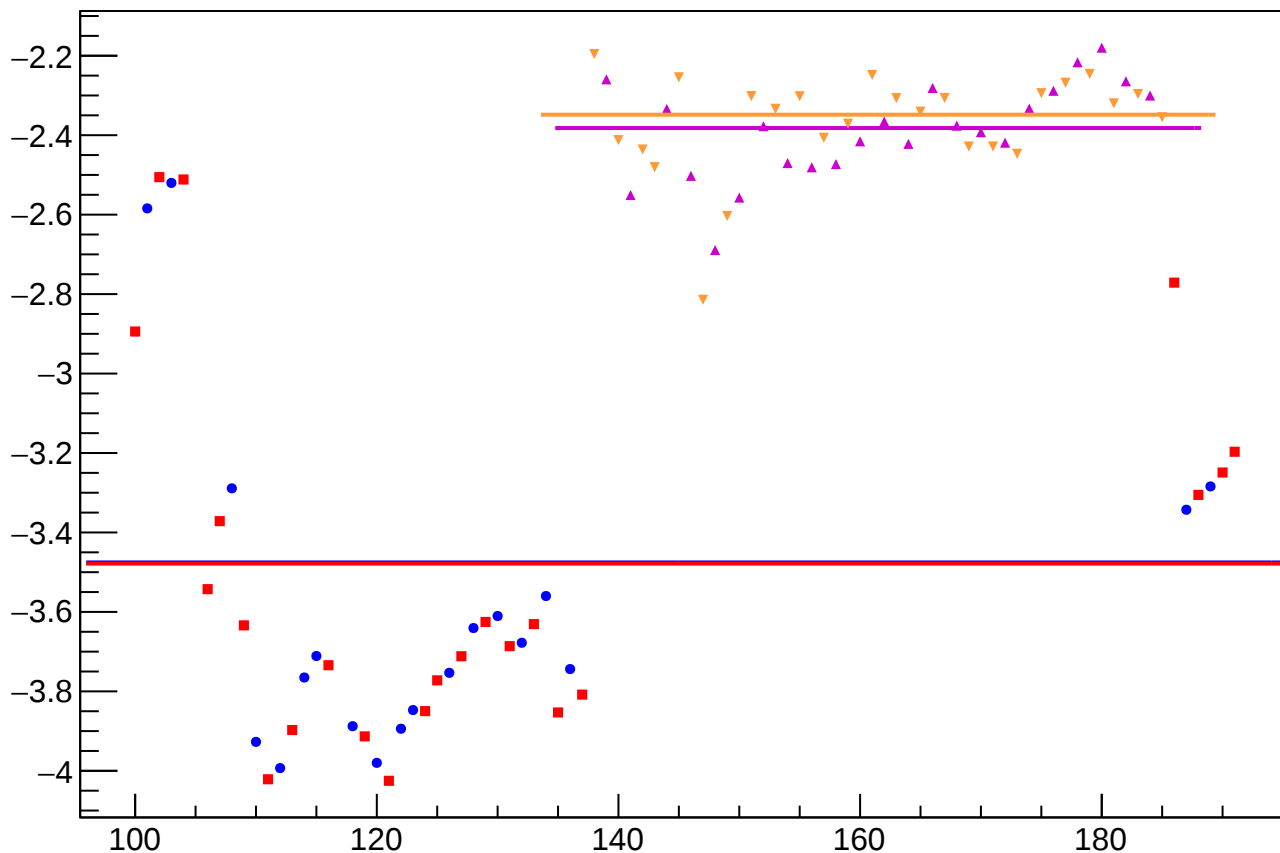
Right: 0.007+/-0.000 χ^2/NDF : 196372.4/41

In: 0.006+/-0.000 χ^2/NDF :748706.8/41

Out: 0.006+/-0.000 χ^2/NDF :746027.4/47

All: 0.006+/-0.000 χ^2/NDF : 1495132.3/89

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.475+/-0.000 χ^2/NDF : 27298682883.6/18

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

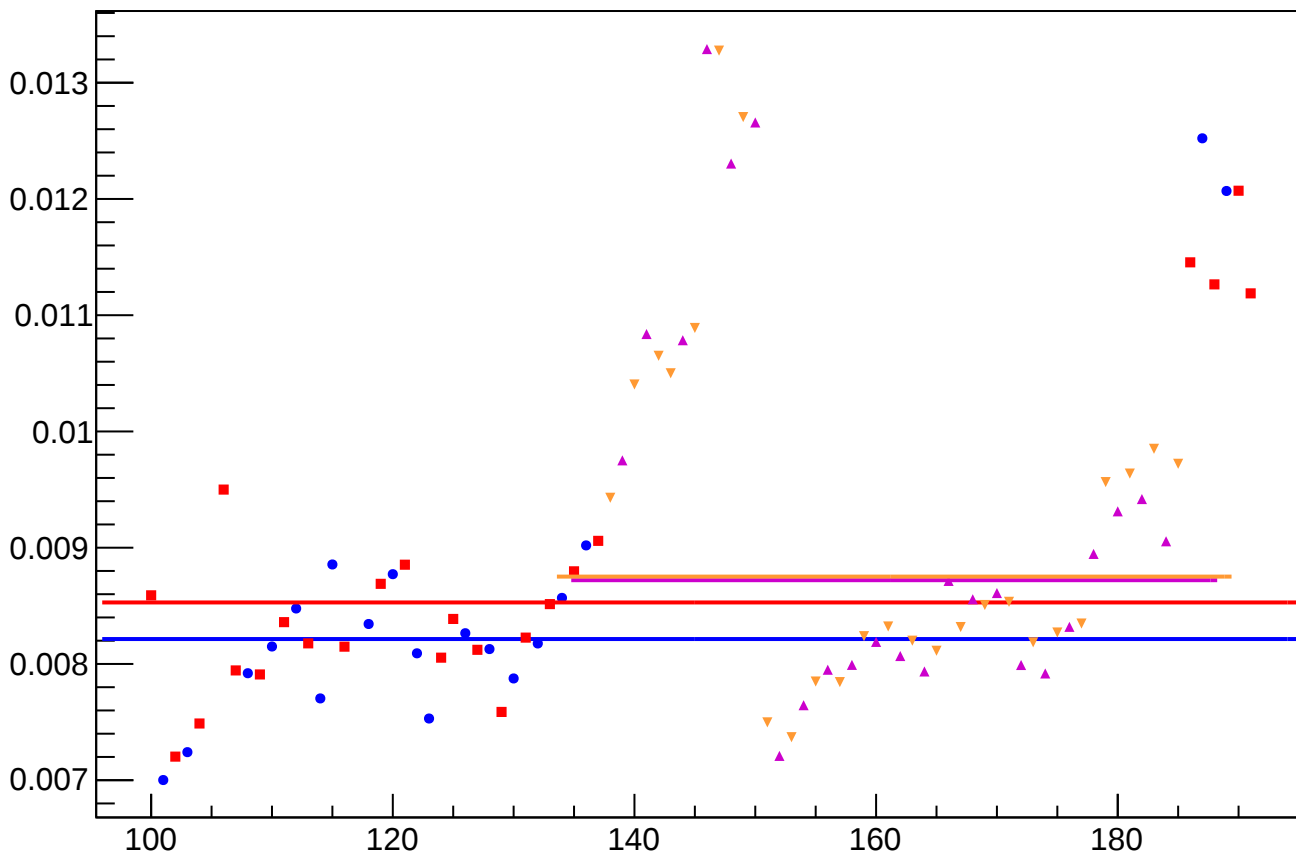
Right: -3.477+/-0.000 χ^2/NDF : 55824500694.5/41

In: -2.741+/-0.000 χ^2/NDF : 113372256179.4/41

Out: -2.733+/-0.000 χ^2/NDF : 128549106673.8/47

All: -2.737+/-0.000 χ^2/NDF : 241930659608.1

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 209176.7/18

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

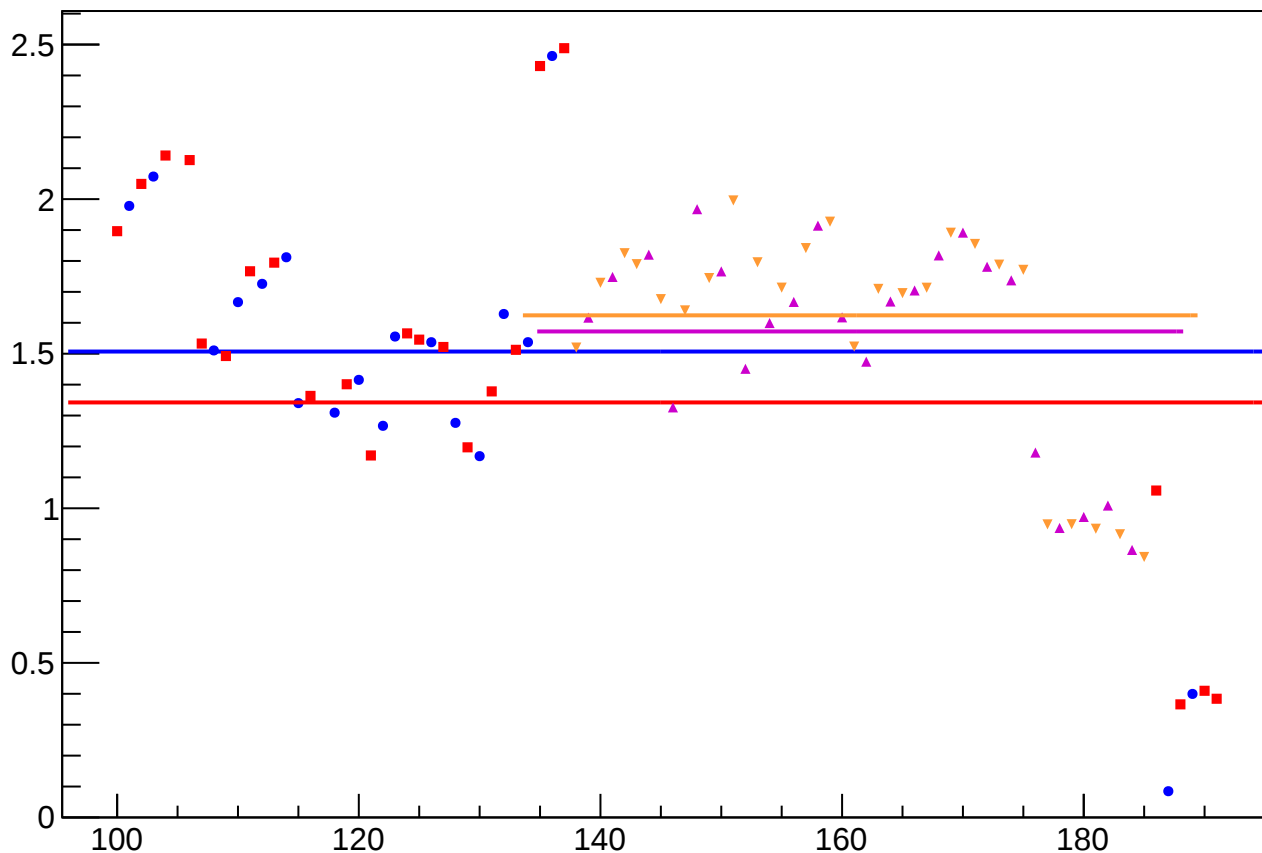
Right: 0.008+/-0.000 χ^2/NDF : 549649.3/41

In: 0.009+/-0.000 χ^2/NDF :992935.8/41

Out: 0.009+/-0.000 χ^2/NDF :1000836.5/47

All: 0.009+/-0.000 χ^2/NDF : 1998612.4/89

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.507 $\pm$ 0.000 χ^2 /NDF: 14583339588.3/18

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 16631112386.4/24

Right Out: 1.342 $\pm$ 0.000 χ^2 /NDF: 23803756427.7/22

Left In: 1.572 $\pm$ 0.000 χ^2 /NDF: 14230484809.4/22

Left: 1.599 $\pm$ 0.000 χ^2 /NDF: 31067753064.6/47

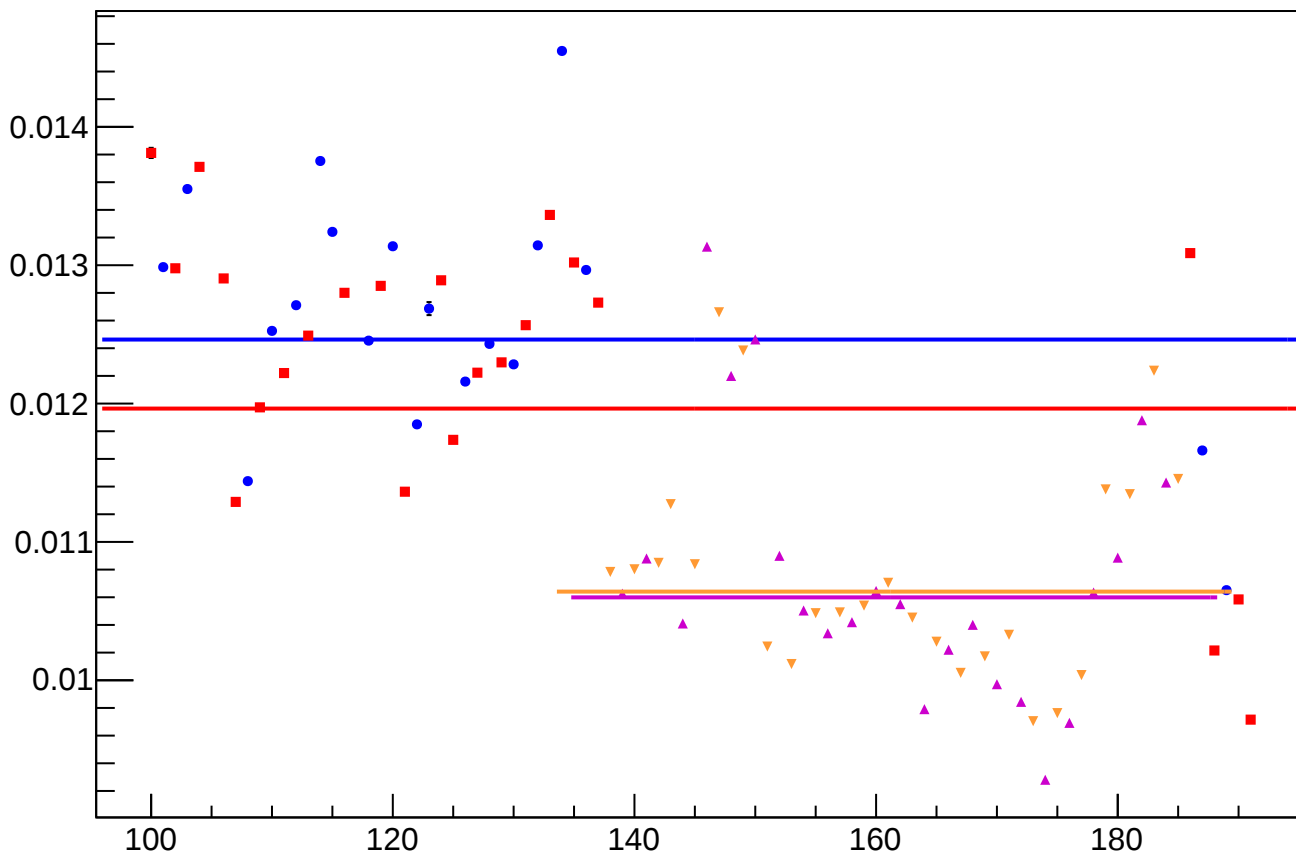
Right: 1.414 $\pm$ 0.000 χ^2 /NDF: 39094312136.4/41

In: 1.557 $\pm$ 0.000 χ^2 /NDF: 28961671503.1/41

Out: 1.546 $\pm$ 0.000 χ^2 /NDF: 43889585331.2/47

All: 1.551 $\pm$ 0.000 χ^2 /NDF: 72863775353.5/8

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 63823.7/18

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

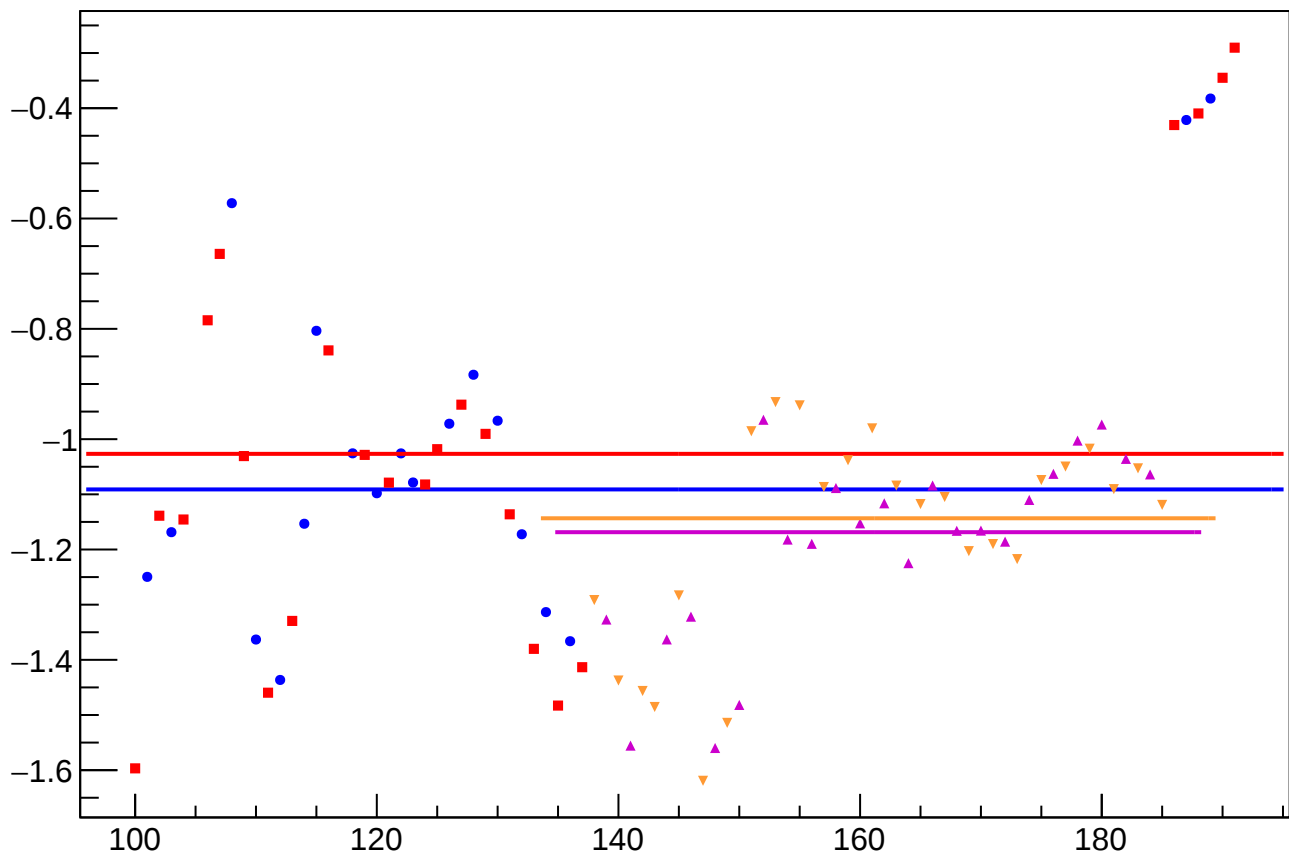
Right: 0.012+/-0.000 χ^2/NDF : 233994.1/41

In: 0.011+/-0.000 χ^2/NDF :511769.4/41

Out: 0.011+/-0.000 χ^2/NDF :469318.6/47

All: 0.011+/-0.000 χ^2/NDF : 981287.3/89

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.091+/-0.000 χ^2/NDF : 5719667997.4/18

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

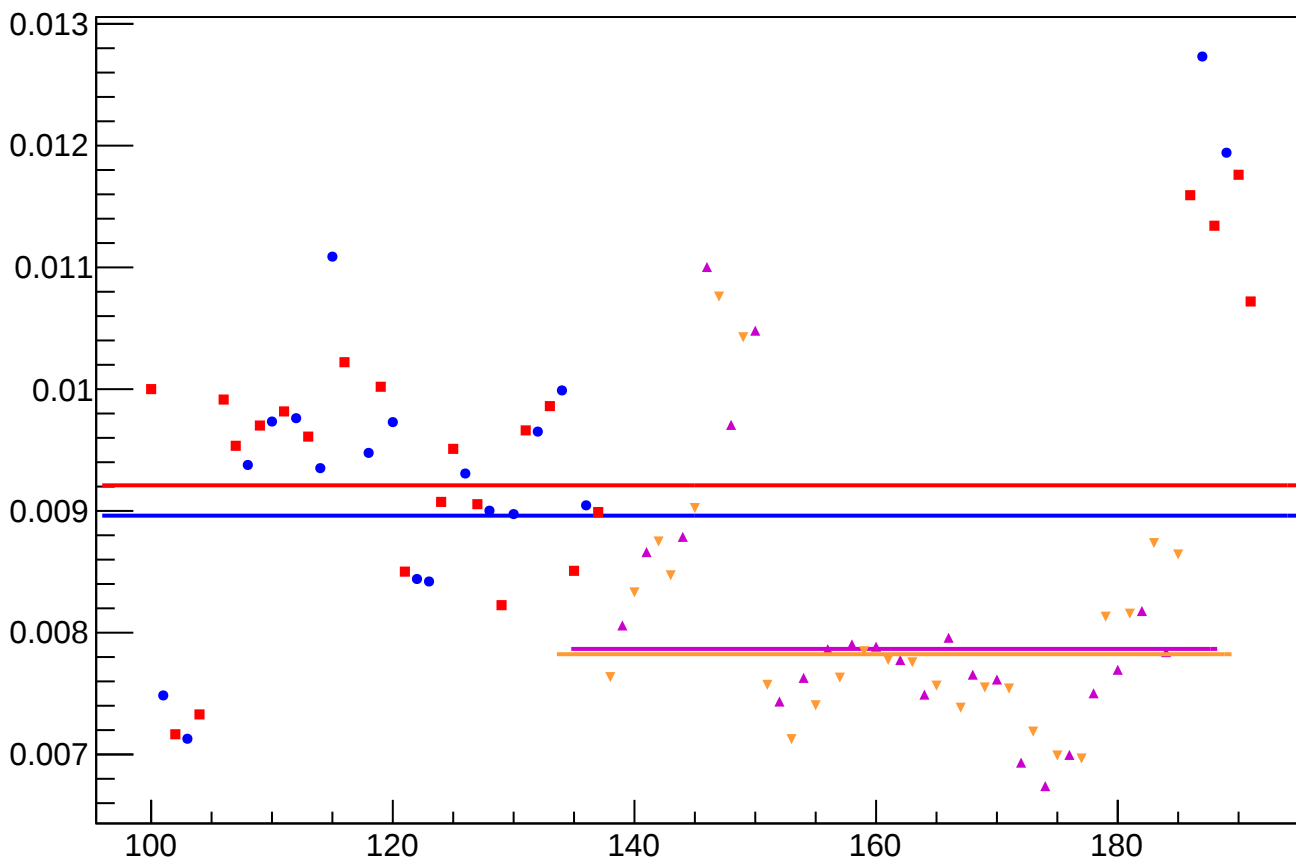
Right: -1.057+/-0.000 χ^2/NDF : 16454639361.8/41

In: -1.149+/-0.000 χ^2/NDF : 12472249899.9/41

Out: -1.113+/-0.000 χ^2/NDF : 19513116802.5/47

All: -1.130+/-0.000 χ^2/NDF : 32225336045.0/41

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 240351.5/18

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

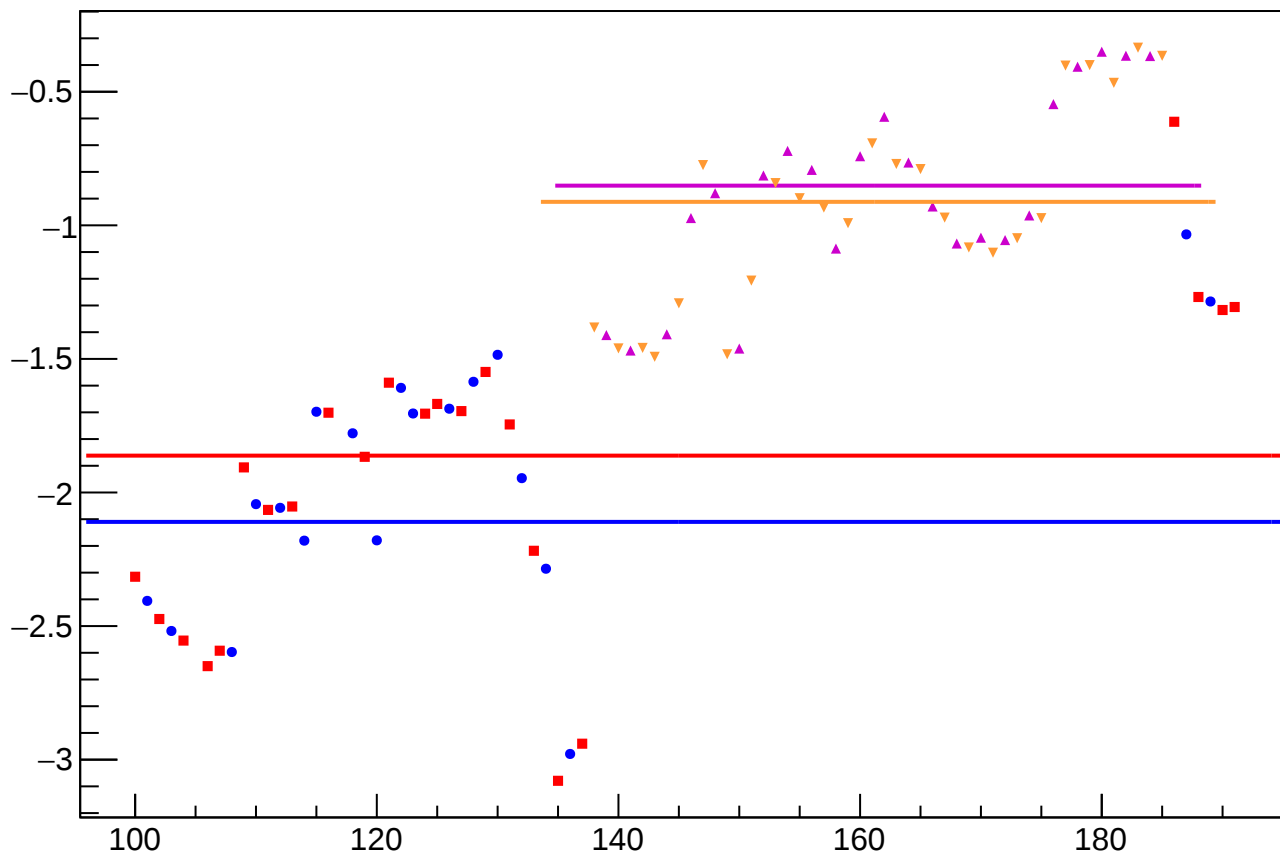
Right: 0.009+/-0.000 χ^2/NDF : 576302.9/41

In: 0.008+/-0.000 χ^2/NDF :775687.0/41

Out: 0.008+/-0.000 χ^2/NDF :946722.4/47

All: 0.008+/-0.000 χ^2/NDF : 1723178.4/89

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.110 ± 0.000 $\chi^2/\text{NDF}: 31981123593.3/18$

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 $\chi^2/\text{NDF}: 96285672564.6/47$

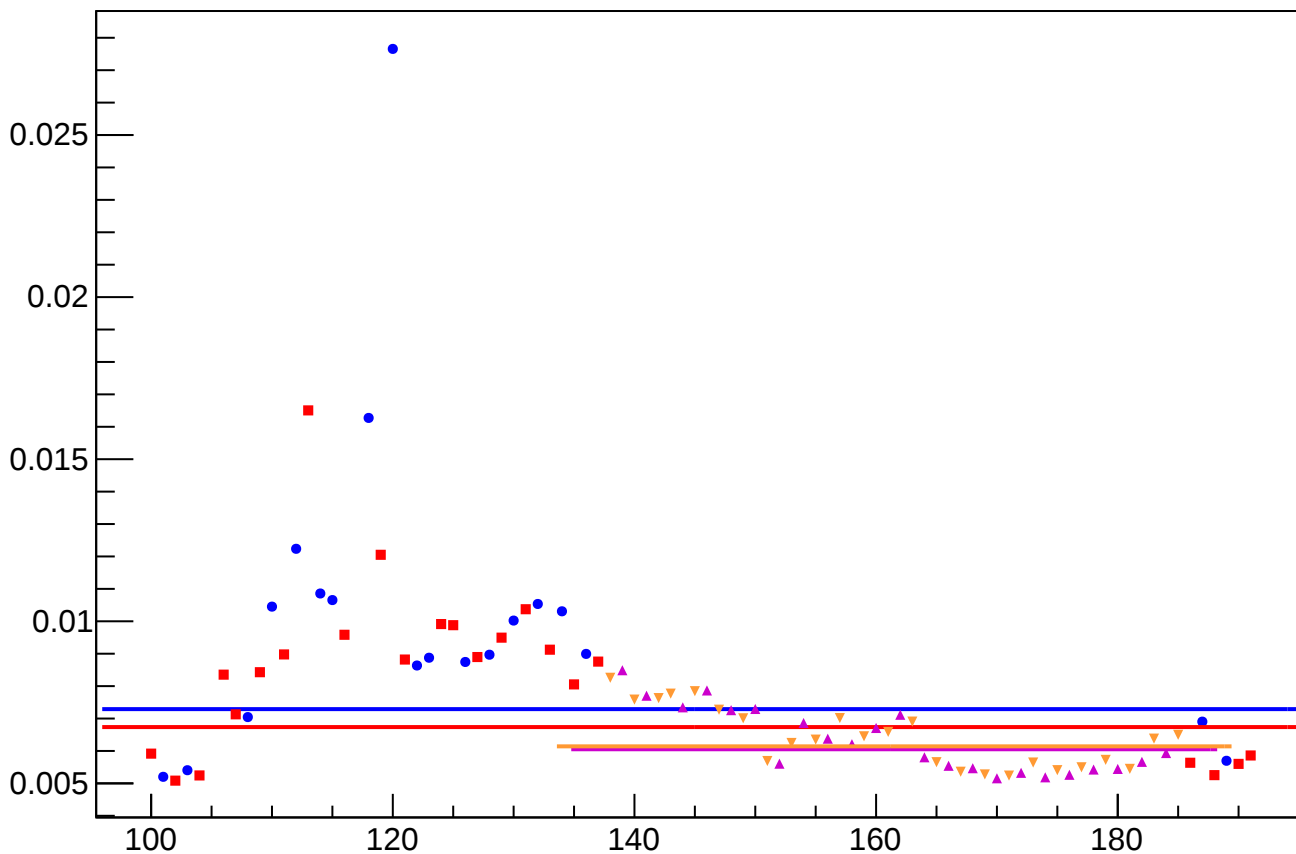
Right: -1.961 ± 0.000 $\chi^2/\text{NDF}: 103810687935.7/41$

In: -1.095 ± 0.000 $\chi^2/\text{NDF}: 211741031764.2/41$

Out: -1.161 ± 0.000 $\chi^2/\text{NDF}: 222348932197.6/47$

All: -1.130 ± 0.000 $\chi^2/\text{NDF}: 435337087780.1$

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 1296920.7/18

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

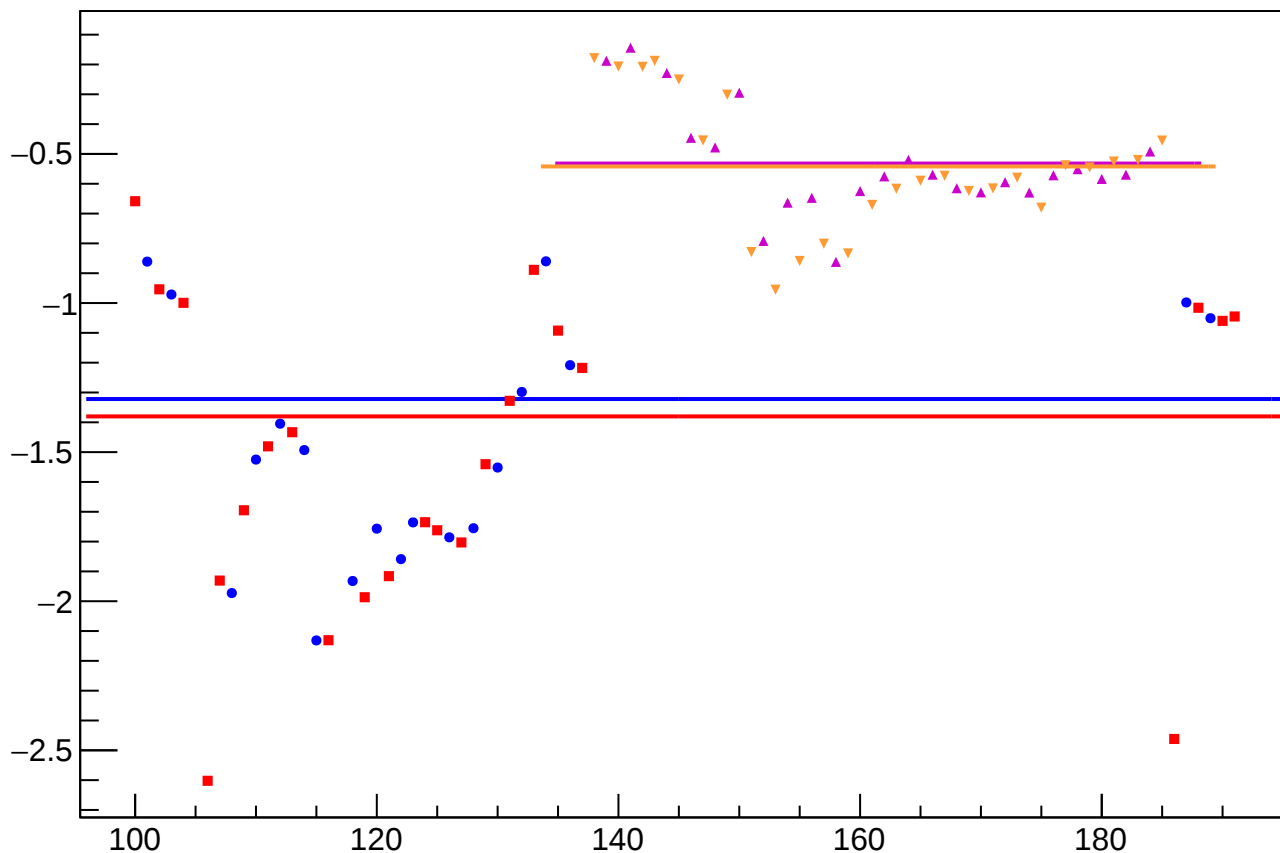
Right: 0.007+/-0.000 χ^2/NDF : 2573452.6/41

In: 0.006+/-0.000 χ^2/NDF : 2252542.5/41

Out: 0.006+/-0.000 χ^2/NDF : 1958313.3/47

All: 0.006+/-0.000 χ^2/NDF : 4210875.8/89

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.322+/-0.000 χ^2/NDF : 22442804403.5/18

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.380+/-0.000 χ^2/NDF : 70284353374.3/22

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

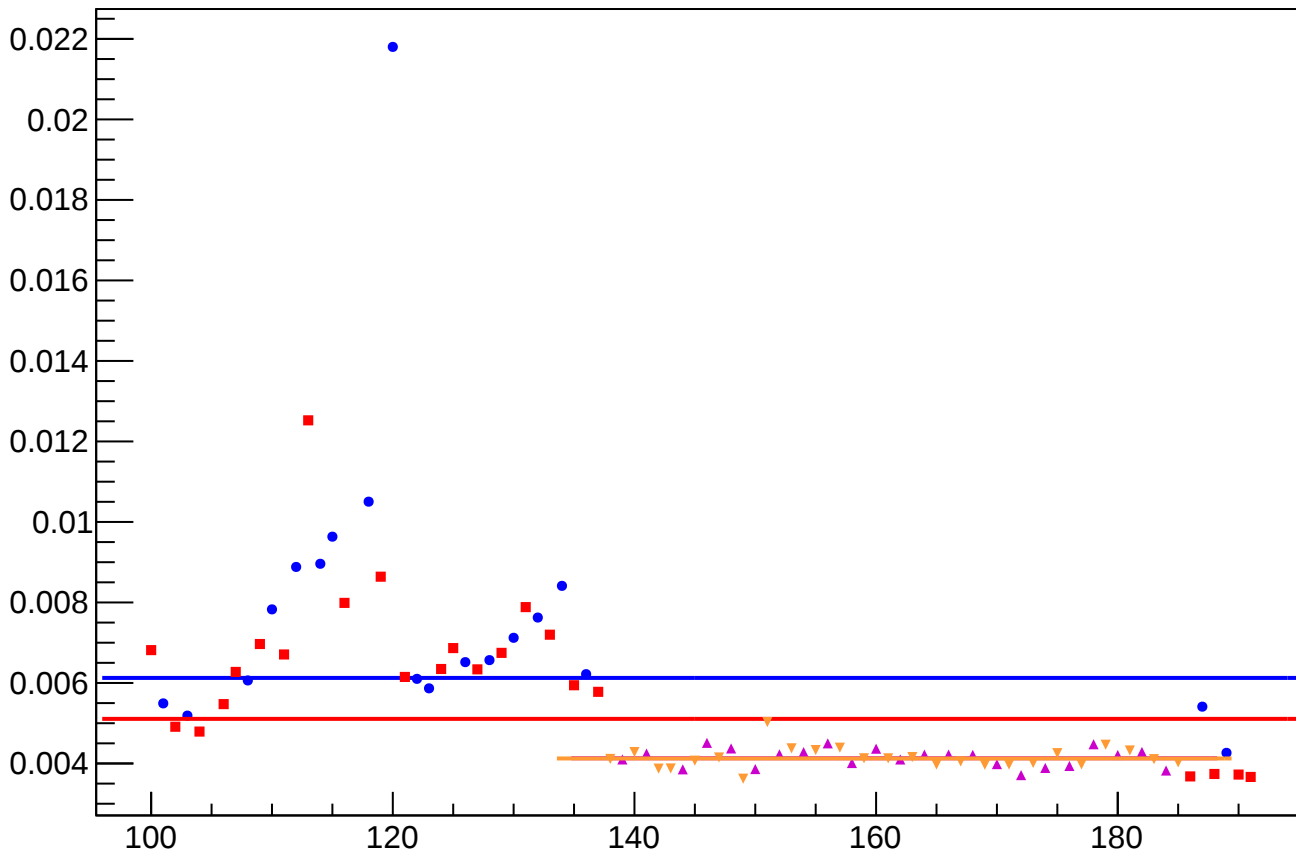
Right: -1.359+/-0.000 χ^2/NDF : 93064459796.2/41

In: -0.645+/-0.000 χ^2/NDF : 136611371053.5/41

Out: -0.723+/-0.000 χ^2/NDF : 267695122367.1/47

All: -0.687+/-0.000 χ^2/NDF : 407820430351.4

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 763989.9/18

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

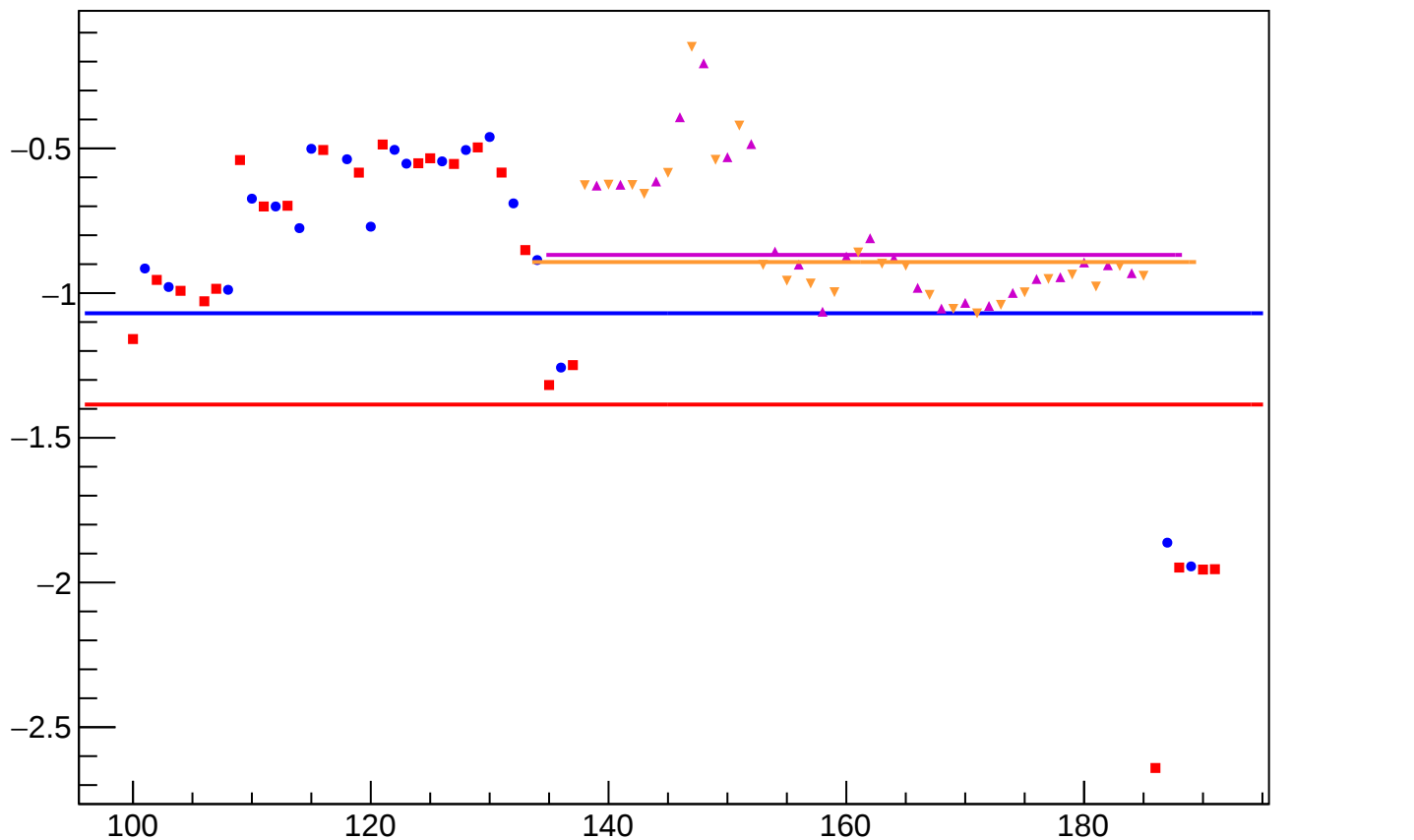
Right: 0.005+/-0.000 χ^2/NDF : 2229058.1/41

In: 0.004+/-0.000 χ^2/NDF :1923207.9/41

Out: 0.004+/-0.000 χ^2/NDF :1786151.9/47

All: 0.004+/-0.000 χ^2/NDF : 3716600.7/89

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.070 ± 0.000 $\chi^2/\text{NDF}: 69434416634.0/18$

Left Out: -0.893 ± 0.000 $\chi^2/\text{NDF}: 40787012603.8/24$

Right Out: -1.385 ± 0.000 $\chi^2/\text{NDF}: 190672024392.7/22$

Left In: -0.868 ± 0.000 $\chi^2/\text{NDF}: 43853190177.2/22$

Left: -0.880 ± 0.000 $\chi^2/\text{NDF}: 84980637247.0/47$

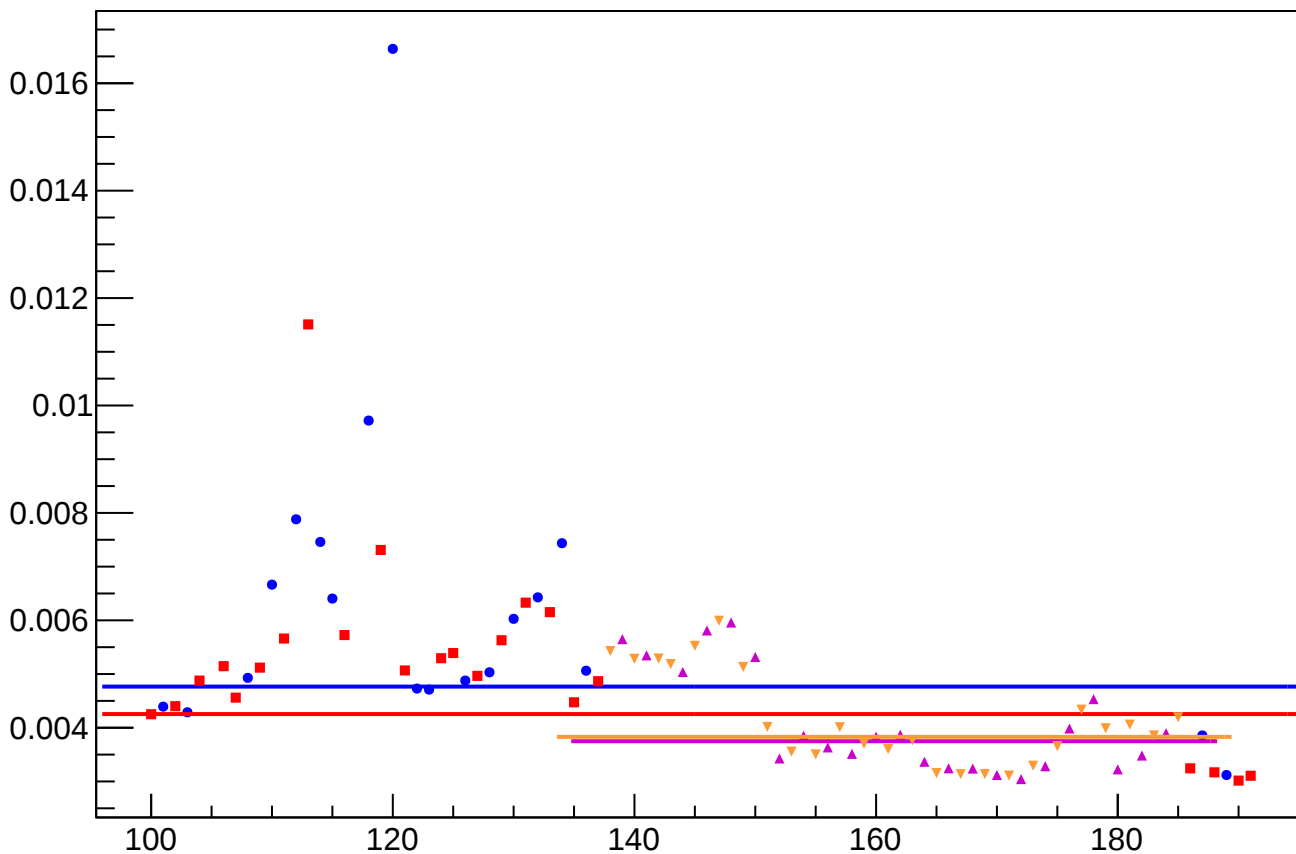
Right: -1.264 ± 0.000 $\chi^2/\text{NDF}: 275604287362.4/41$

In: -0.905 ± 0.000 $\chi^2/\text{NDF}: 121684225750.0/41$

Out: -1.023 ± 0.000 $\chi^2/\text{NDF}: 303601231372.2/47$

All: -0.967 ± 0.000 $\chi^2/\text{NDF}: 435263255871.3$

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1018393.1/18

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

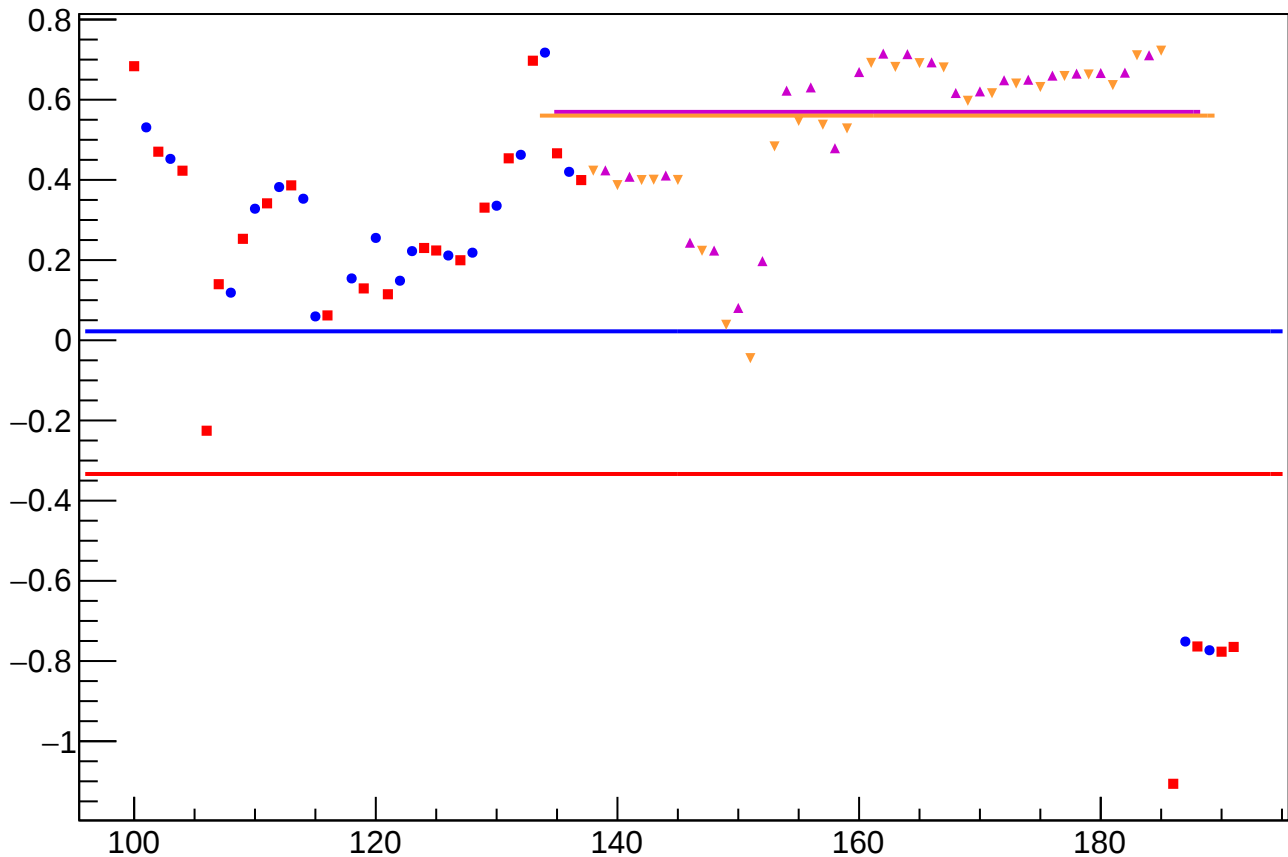
Right: 0.004+/-0.000 χ^2/NDF : 2286773.7/41

In: 0.004+/-0.000 χ^2/NDF :2734260.9/41

Out: 0.004+/-0.000 χ^2/NDF :2473500.1/47

All: 0.004+/-0.000 χ^2/NDF : 5207806.6/89

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 134740339731.6/18

Left Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 45205806387.2/24

Right Out: -0.333 $\pm$ 0.000 χ^2 /NDF: 317955485959.2/22

Left In: 0.570 $\pm$ 0.000 χ^2 /NDF: 42104067973.0/22

Left: 0.565 $\pm$ 0.000 χ^2 /NDF: 87378176036.1/47

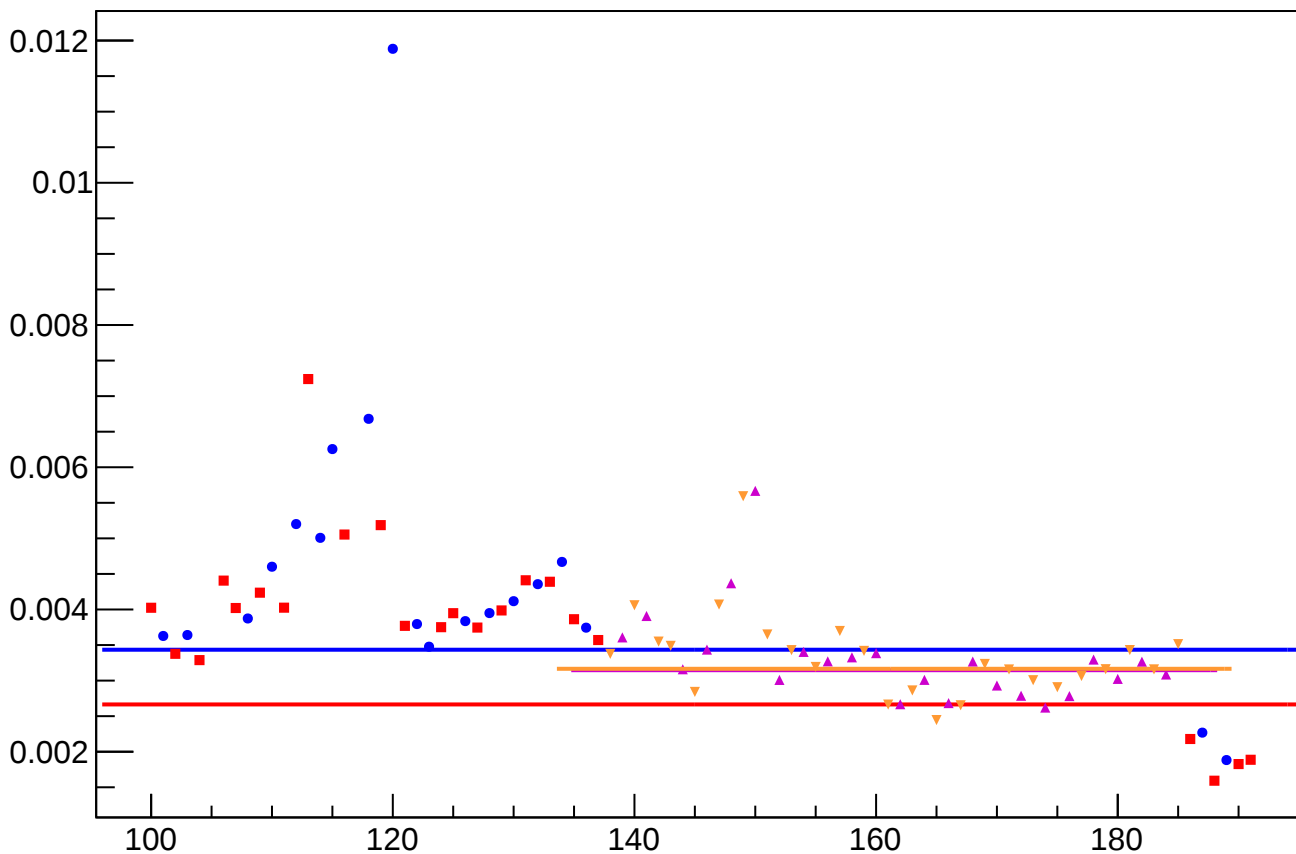
Right: -0.212 $\pm$ 0.000 χ^2 /NDF: 493388149595.9/41

In: 0.439 $\pm$ 0.000 χ^2 /NDF: 288303302167.2/41

Out: 0.232 $\pm$ 0.000 χ^2 /NDF: 837712404317.2/47

All: 0.324 $\pm$ 0.000 χ^2 /NDF: 1174508604216.0

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1362548.7/18

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

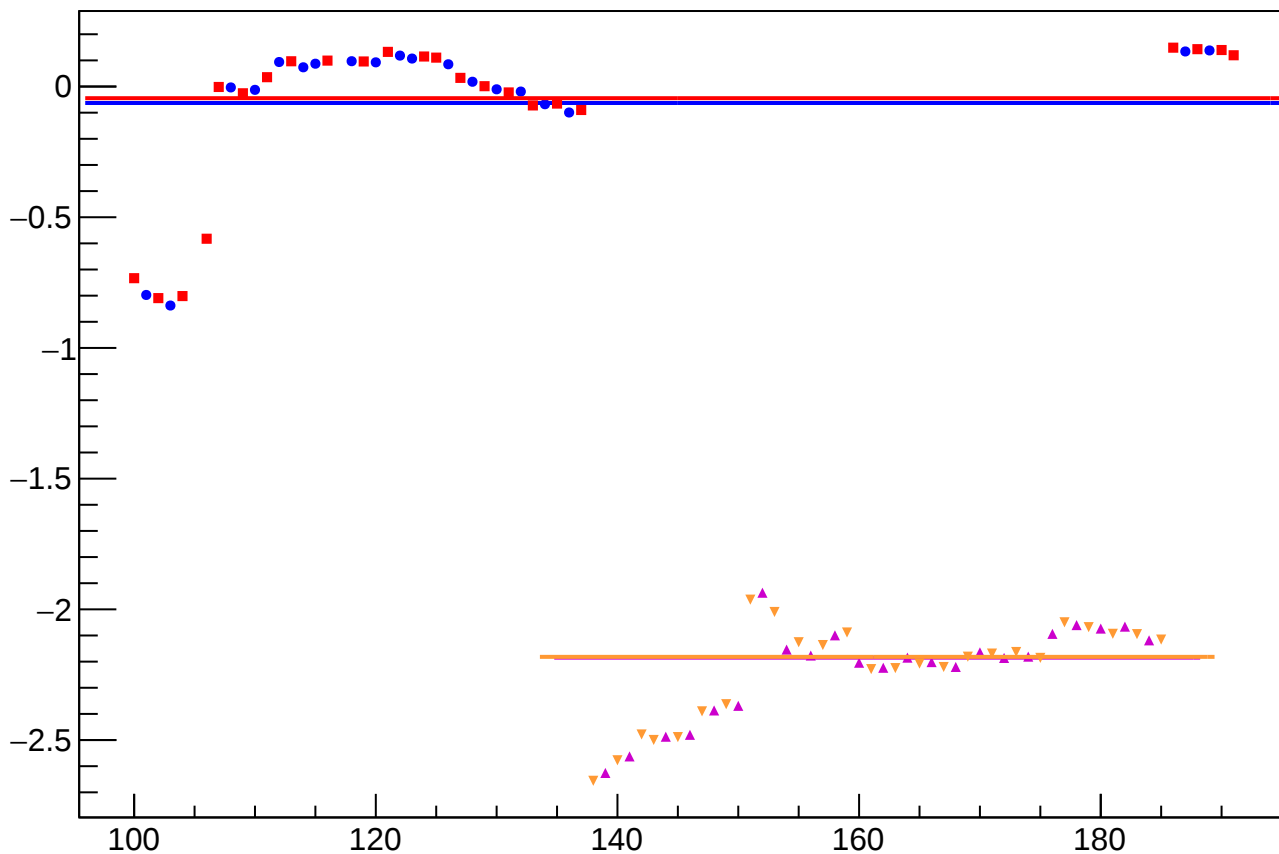
Right: 0.003+/-0.000 χ^2/NDF : 4248343.6/41

In: 0.003+/-0.000 χ^2/NDF : 2140600.2/41

Out: 0.003+/-0.000 χ^2/NDF : 3548671.6/47

All: 0.003+/-0.000 χ^2/NDF : 5812664.1/89

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.063+/-0.000 χ^2/NDF : 5282517807.3/18

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: -0.045+/-0.000 χ^2/NDF : 6443630810.1/22

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

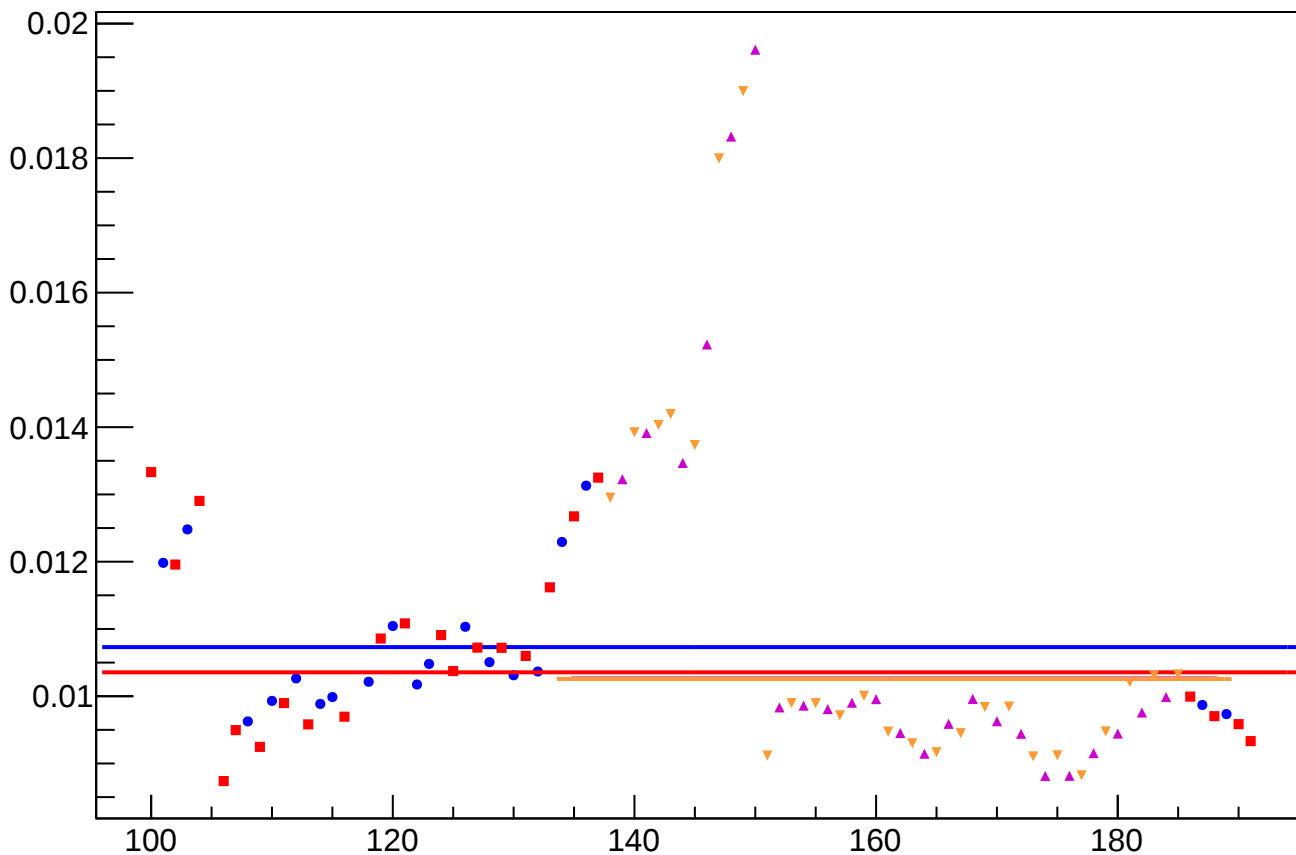
Right: -0.053+/-0.000 χ^2/NDF : 11738125576.9/41

In: -1.579+/-0.000 χ^2/NDF : 210938226622.8/41

Out: -1.477+/-0.000 χ^2/NDF : 263057215456.3/47

All: -1.525+/-0.000 χ^2/NDF : 475211143582.6

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 137984.3/18

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

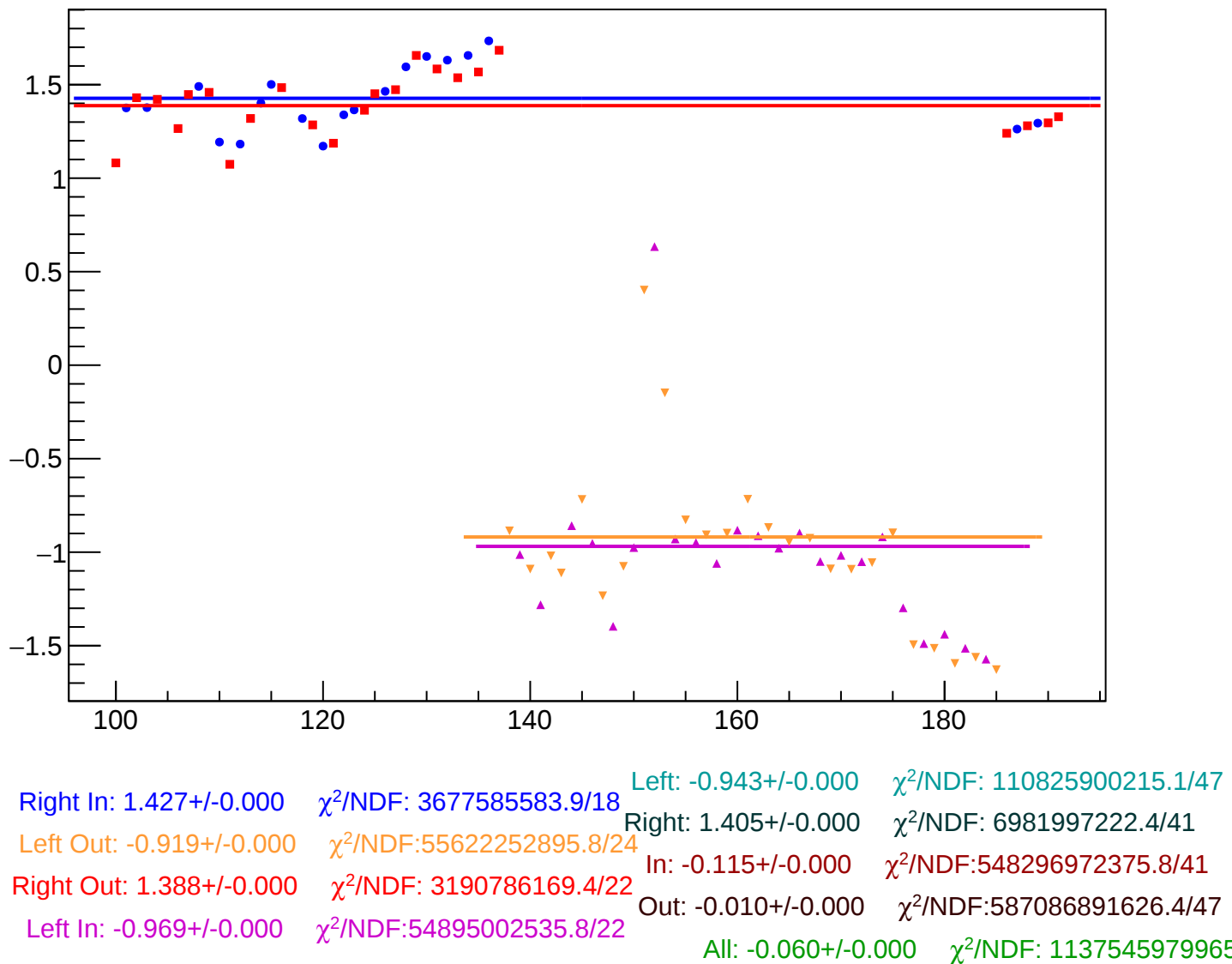
Right: 0.011+/-0.000 χ^2/NDF : 352181.1/41

In: 0.010+/-0.000 χ^2/NDF :1497741.7/41

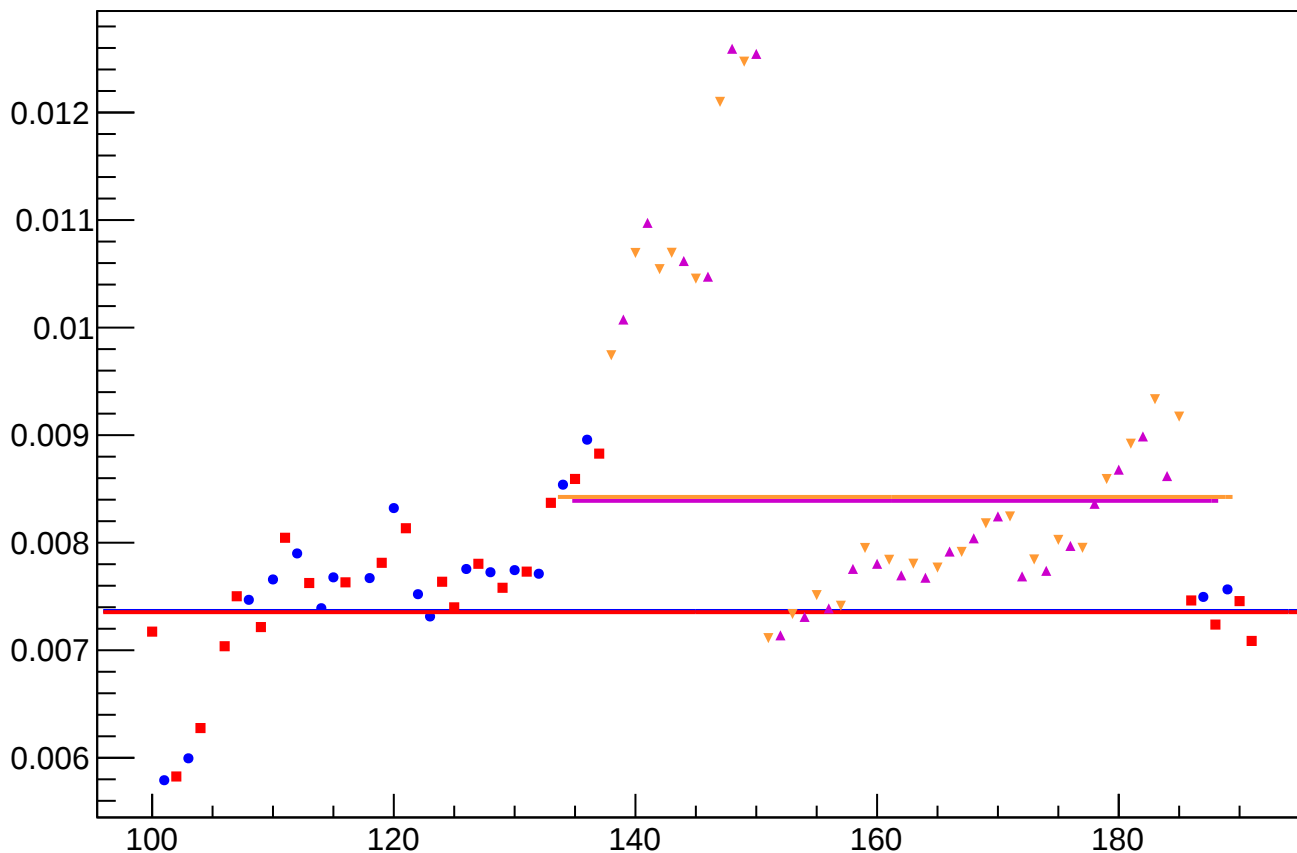
Out: 0.010+/-0.000 χ^2/NDF :1475872.7/47

All: 0.010+/-0.000 χ^2/NDF : 2976378.5/89

yield_bpm1i02Y_mean vs Slug, Sign Corrected



yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 229490.1/18

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 792337.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 173957.4/22

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 839880.4/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 1632536.0/47

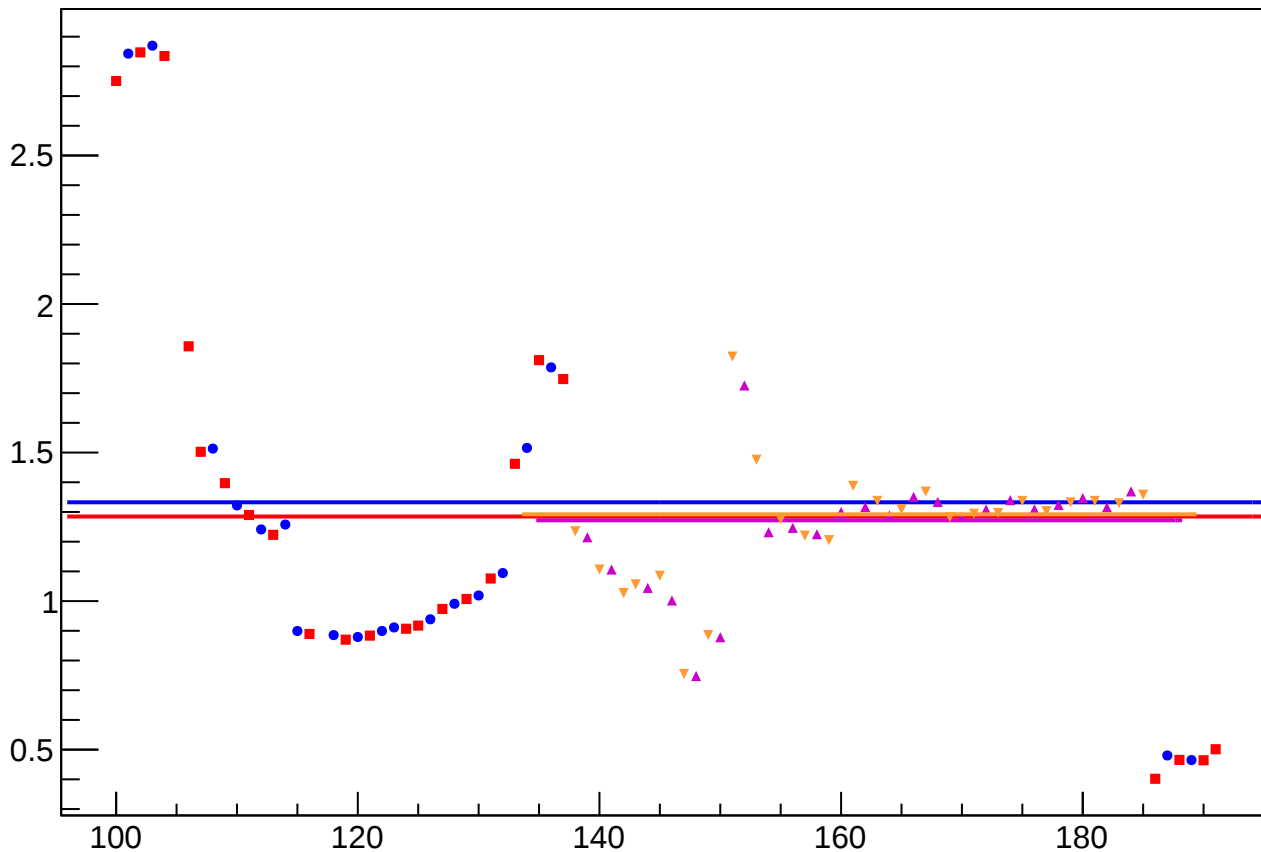
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 403464.6/41

In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1248379.8/41

Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 1194164.3/47

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2442716.0/89

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.333 $\pm$ 0.000 χ^2 /NDF: 59075317136.2/18

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

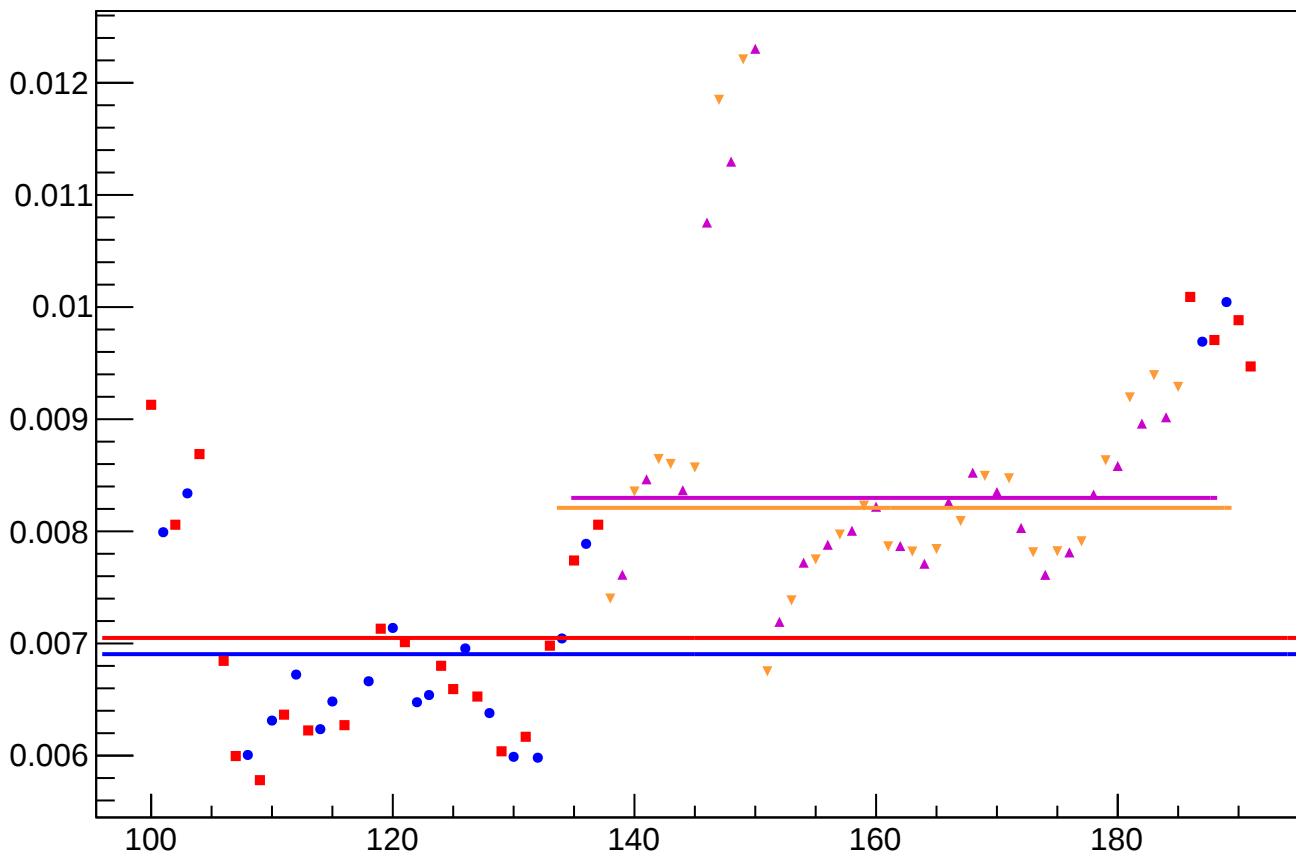
Right: 1.307 $\pm$ 0.000 χ^2 /NDF: 124160354001.6/41

In: 1.295 $\pm$ 0.000 χ^2 /NDF: 66990344725.9/41

Out: 1.289 $\pm$ 0.000 χ^2 /NDF: 74211311106.5/47

All: 1.292 $\pm$ 0.000 χ^2 /NDF: 141208953074.3

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 282700.9/18

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

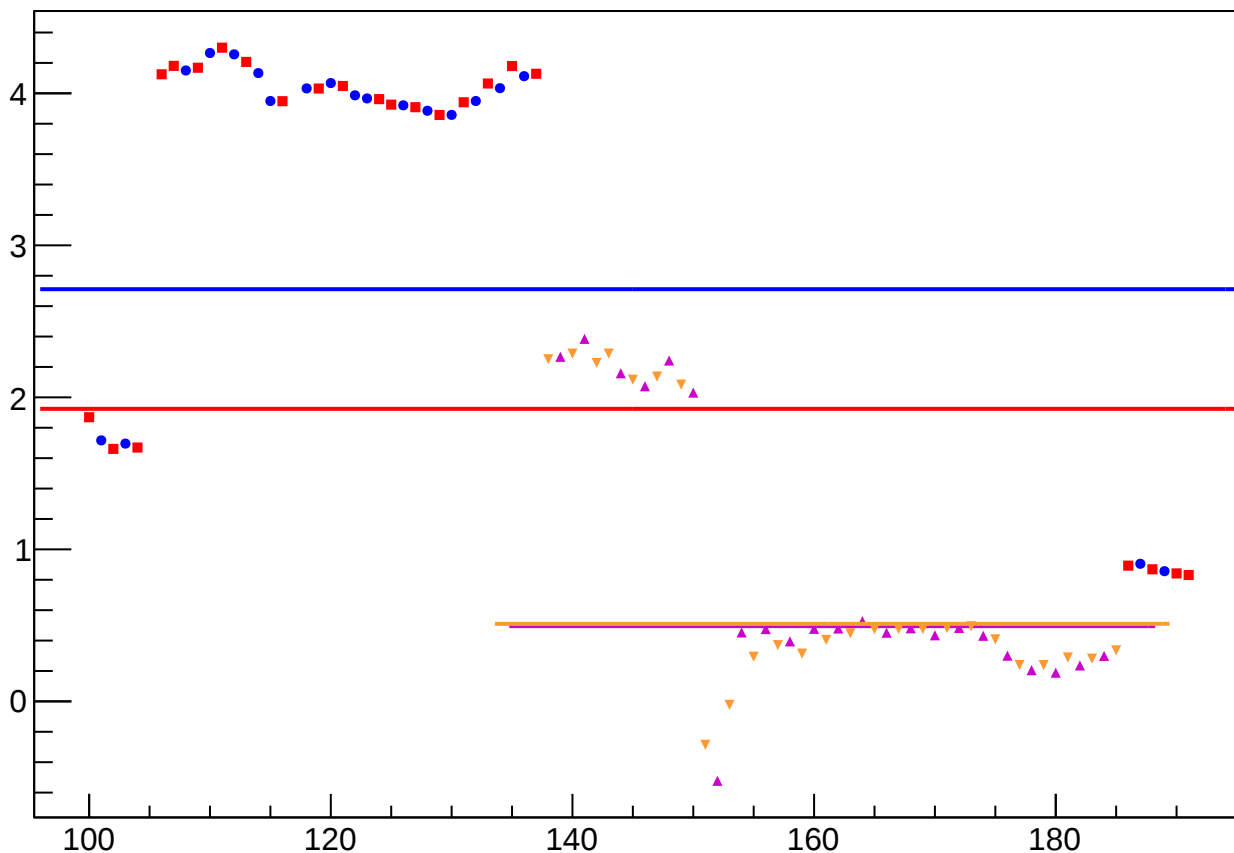
Right: 0.007+/-0.000 χ^2/NDF : 804588.9/41

In: 0.008+/-0.000 χ^2/NDF :1105489.4/41

Out: 0.008+/-0.000 χ^2/NDF :1279958.1/47

All: 0.008+/-0.000 χ^2/NDF : 2385622.0/89

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 2.711+/-0.000 χ^2/NDF : 707858543482.1/18

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

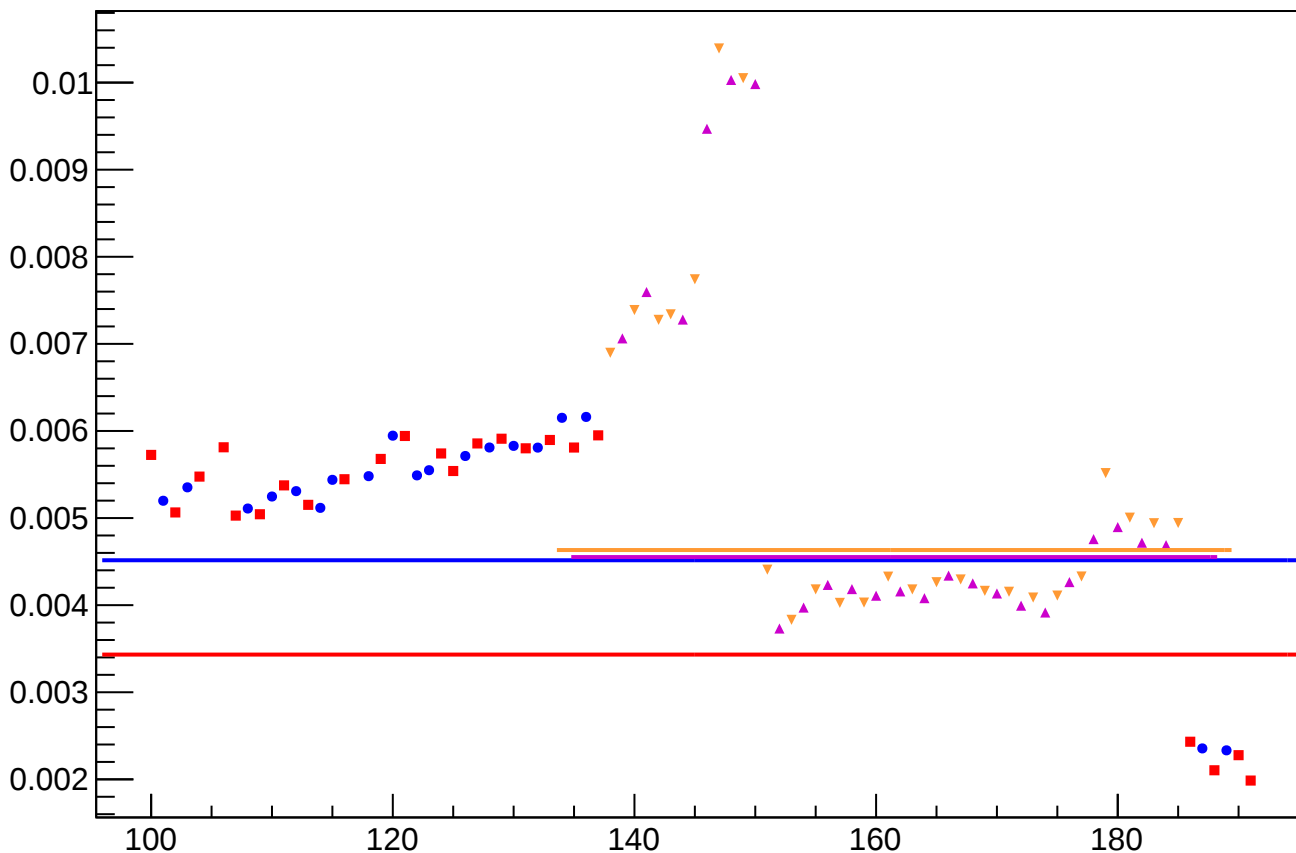
Right: 2.197+/-0.000 χ^2/NDF : 2139757465847.9/41

In: 1.151+/-0.000 χ^2/NDF : 2078949715404.3/41

Out: 1.128+/-0.000 χ^2/NDF : 2256292701125.2/47

All: 1.138+/-0.000 χ^2/NDF : 4335580761933.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1504570.0/18

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

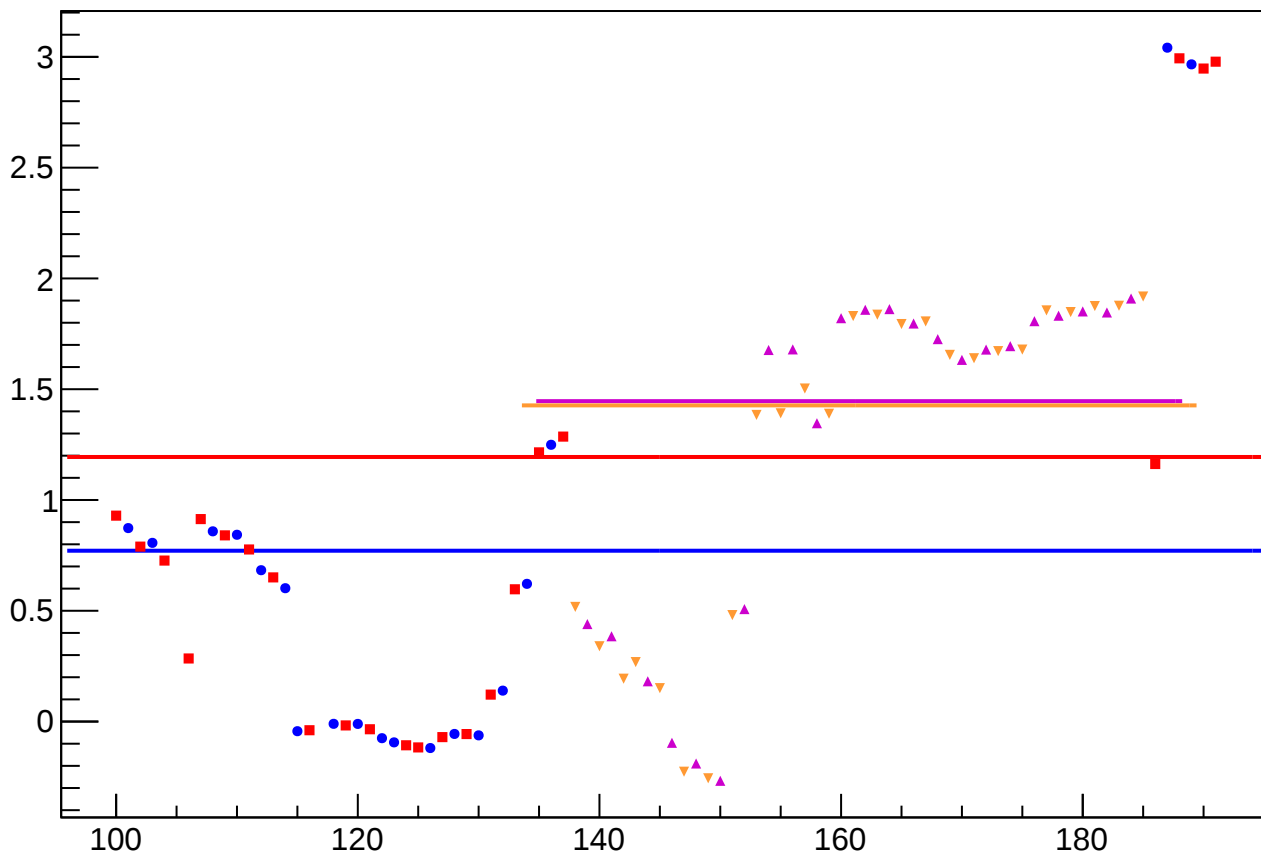
Right: 0.004+/-0.000 χ^2/NDF : 5234798.8/41

In: 0.005+/-0.000 χ^2/NDF :3742837.4/41

Out: 0.004+/-0.000 χ^2/NDF :6332545.8/47

All: 0.004+/-0.000 χ^2/NDF : 10301449.8/89

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.771+/-0.000 χ^2/NDF : 39033761084.7/18

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 1.194+/-0.000 χ^2/NDF : 71776502522.9/22

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

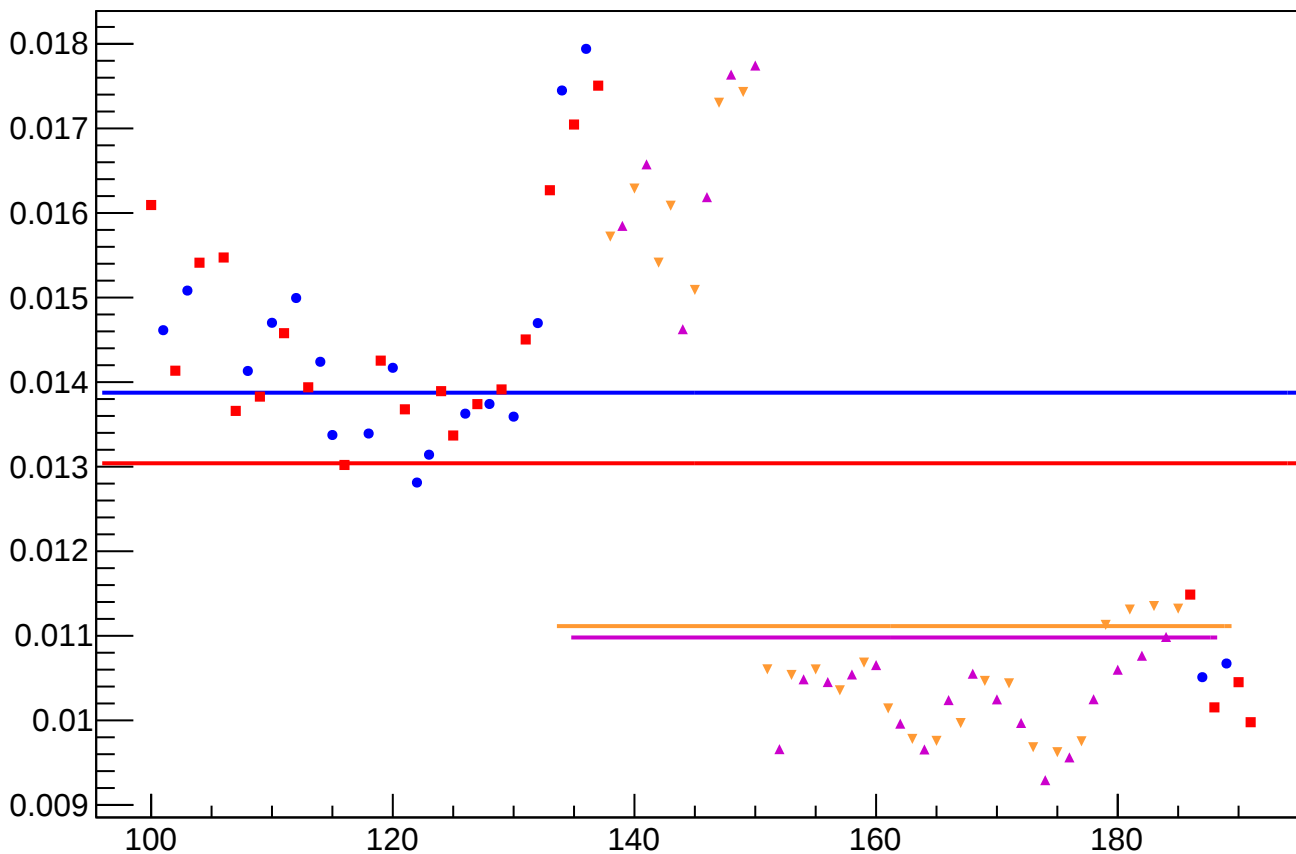
Right: 1.015+/-0.000 χ^2/NDF : 114645885729.8/41

In: 1.302+/-0.000 χ^2/NDF : 106124352339.9/41

Out: 1.366+/-0.000 χ^2/NDF : 123789498573.7/47

All: 1.336+/-0.000 χ^2/NDF : 230284762997.8

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 246441.0/18

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

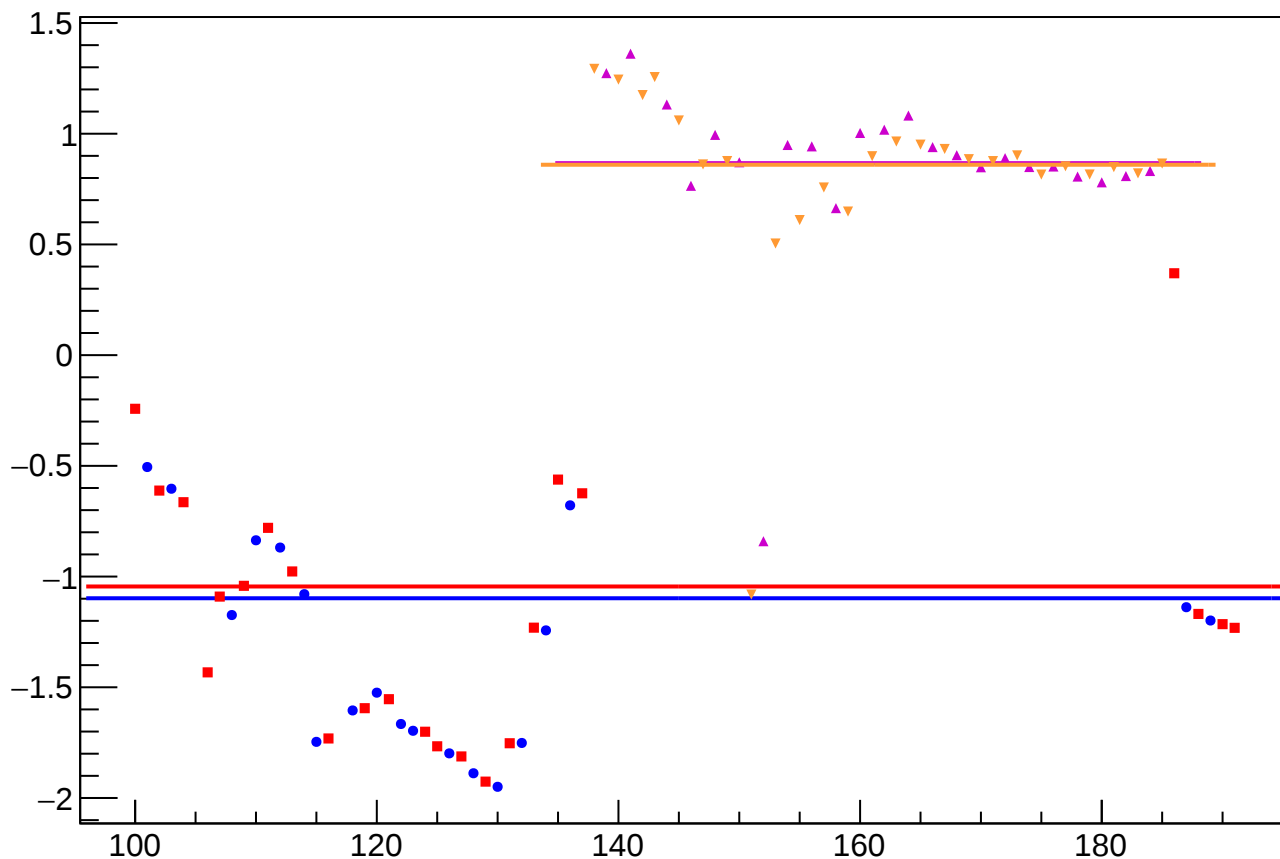
Right: 0.013+/-0.000 χ^2/NDF : 720234.9/41

In: 0.012+/-0.000 χ^2/NDF :2001723.2/41

Out: 0.012+/-0.000 χ^2/NDF :1947974.2/47

All: 0.012+/-0.000 χ^2/NDF : 3949791.9/89

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.098 ± 0.000 $\chi^2/\text{NDF}: 55673872255.4/18$

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 $\chi^2/\text{NDF}: 273407894621.9/47$

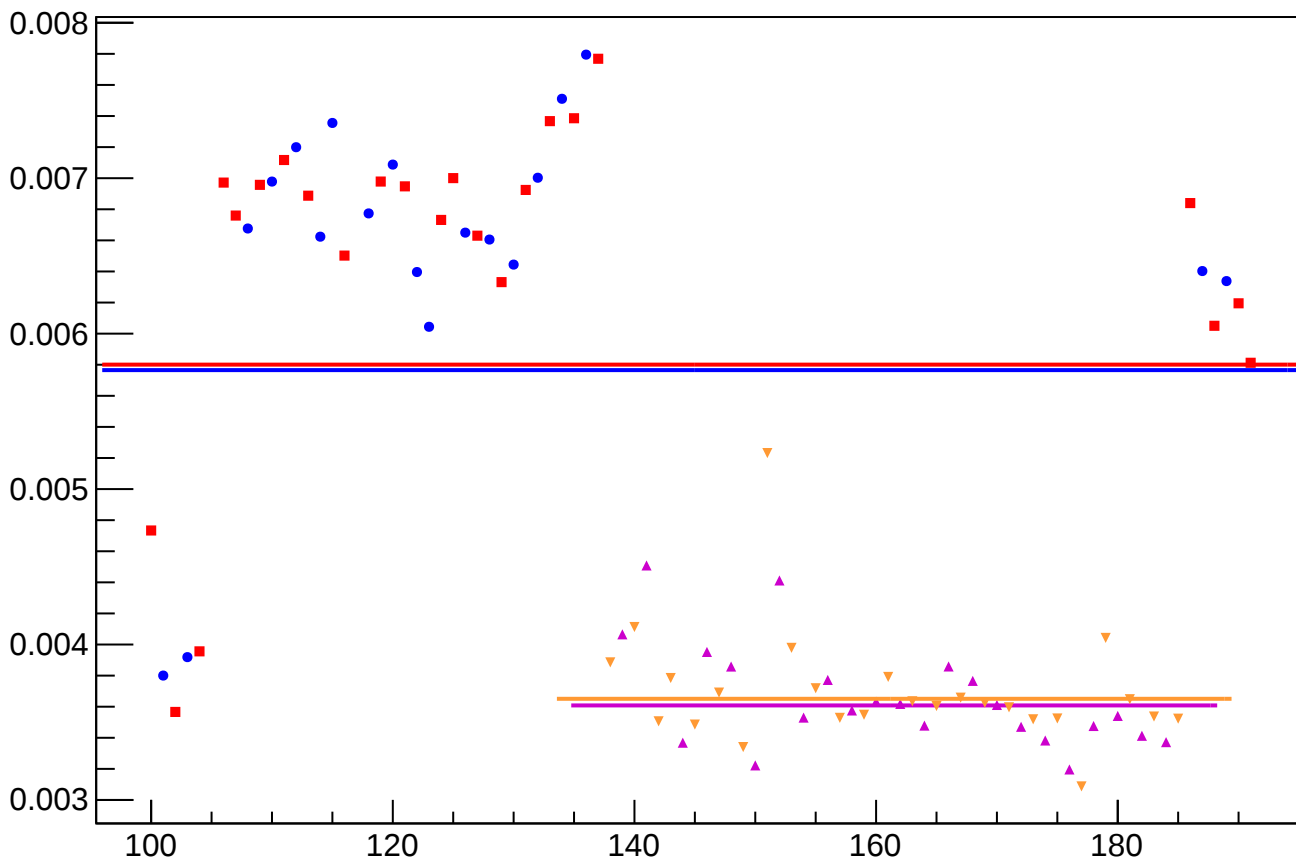
Right: -1.069 ± 0.000 $\chi^2/\text{NDF}: 118883398589.6/41$

In: 0.593 ± 0.000 $\chi^2/\text{NDF}: 854038329912.3/41$

Out: 0.558 ± 0.000 $\chi^2/\text{NDF}: 910721496595.4/47$

All: 0.575 ± 0.000 $\chi^2/\text{NDF}: 1765640964266.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 849287.1/18

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

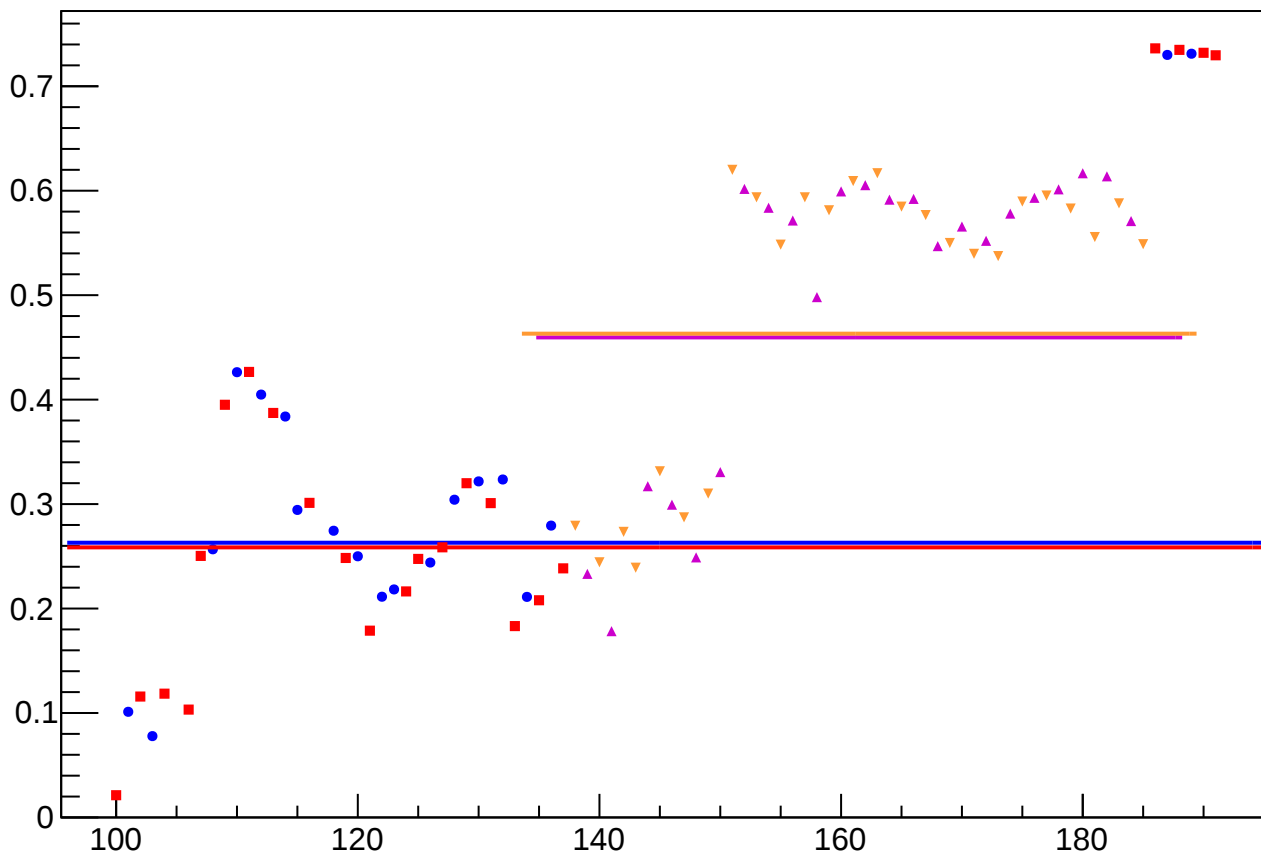
Right: 0.006+/-0.000 χ^2/NDF : 1796205.9/41

In: 0.004+/-0.000 χ^2/NDF :2646890.5/41

Out: 0.004+/-0.000 χ^2/NDF :3022241.8/47

All: 0.004+/-0.000 χ^2/NDF : 5678931.4/89

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.263+/-0.000 χ^2/NDF : 29973995757.0/18

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.259+/-0.000 χ^2/NDF : 54483142599.3/22

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

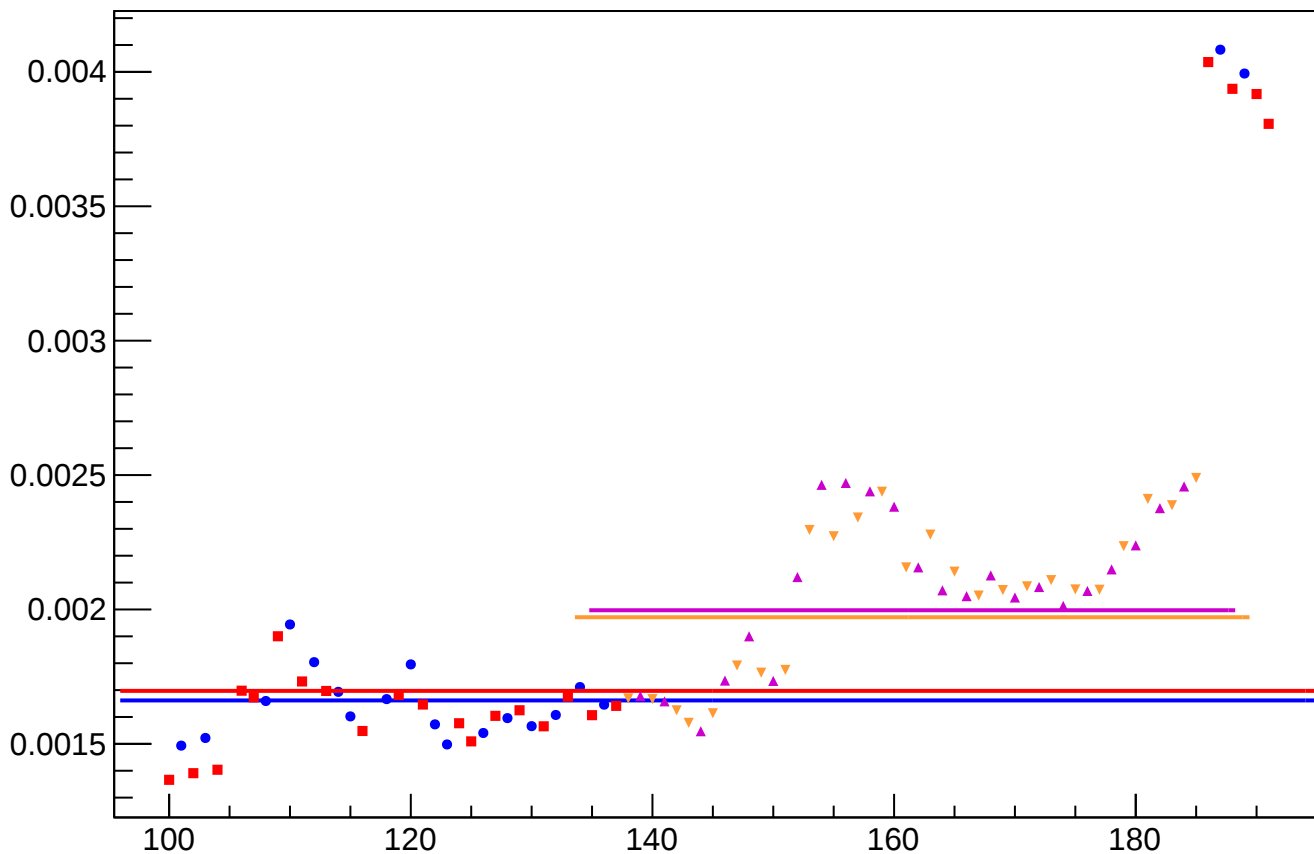
Right: 0.261+/-0.000 χ^2/NDF : 84483336040.8/41

In: 0.387+/-0.000 χ^2/NDF : 194705090077.1/41

Out: 0.385+/-0.000 χ^2/NDF : 230410635409.6/47

All: 0.386+/-0.000 χ^2/NDF : 425125360320.8

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 490886.9/18

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

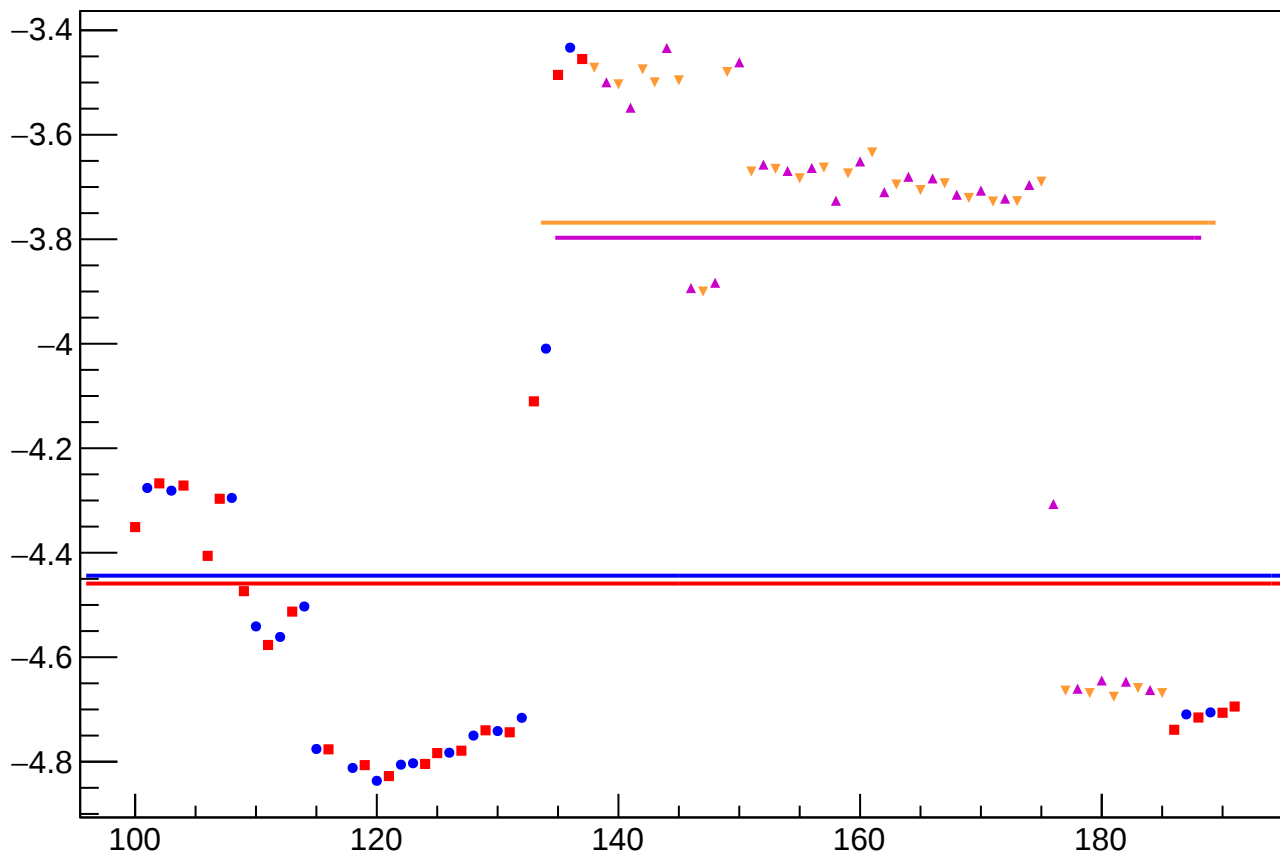
Right: 0.002+/-0.000 χ^2/NDF : 1844713.8/41

In: 0.002+/-0.000 χ^2/NDF : 1507955.2/41

Out: 0.002+/-0.000 χ^2/NDF : 2343882.0/47

All: 0.002+/-0.000 χ^2/NDF : 3852109.7/89

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.444 $\pm$ 0.000 χ^2/NDF : 396545808037.2/18

Left Out: -3.768 $\pm$ 0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.459 $\pm$ 0.000 χ^2/NDF : 338711176878.9/22

Left In: -3.797 $\pm$ 0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782 $\pm$ 0.000 χ^2/NDF : 963205684454.6/47

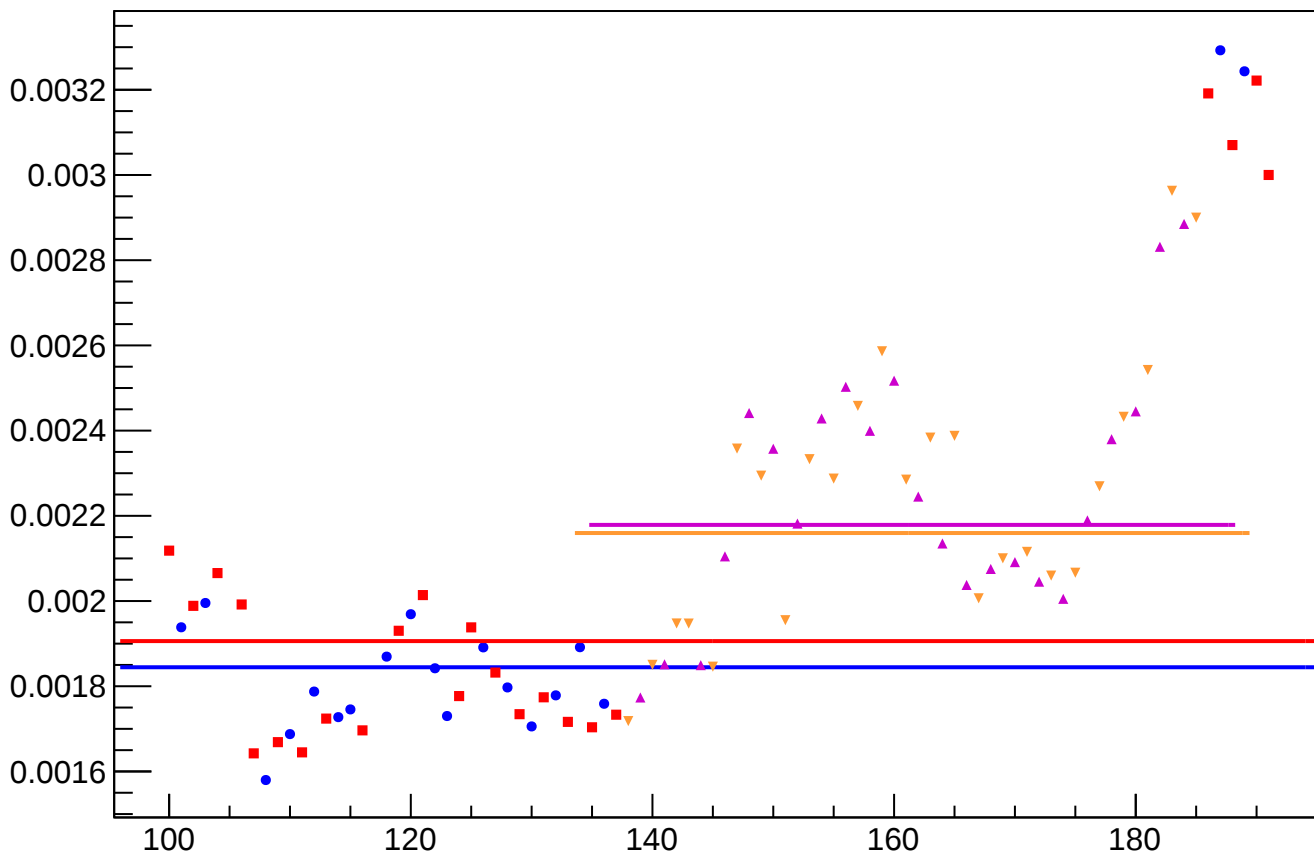
Right: -4.452 $\pm$ 0.000 χ^2/NDF : 735505230620.7/41

In: -4.034 $\pm$ 0.000 χ^2/NDF : 1385051972839.8/41

Out: -4.029 $\pm$ 0.000 χ^2/NDF : 1542623720813.8/47

All: -4.031 $\pm$ 0.000 χ^2/NDF : 2927743651418

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 282613.4/18

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

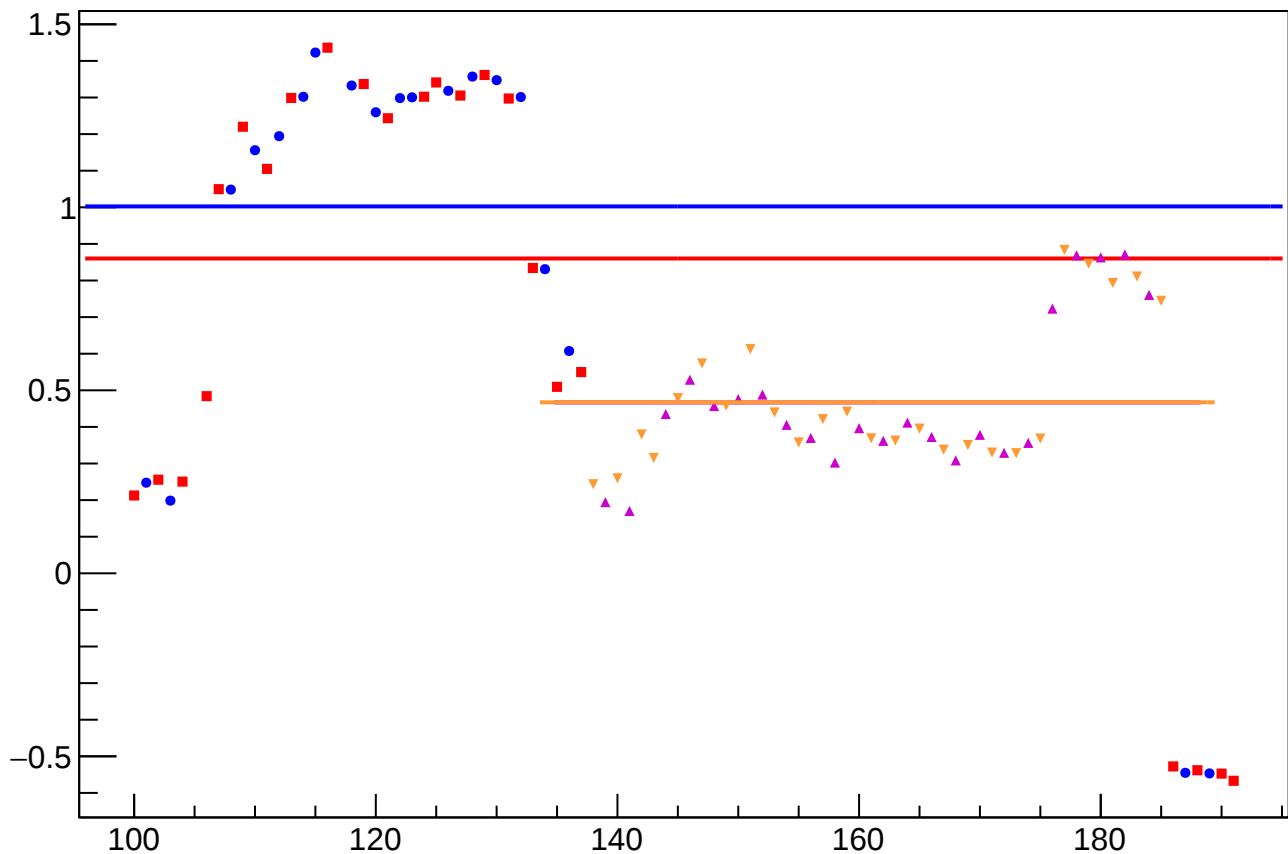
Right: 0.002+/-0.000 χ^2/NDF : 979190.0/41

In: 0.002+/-0.000 χ^2/NDF :1036106.8/41

Out: 0.002+/-0.000 χ^2/NDF :1421488.7/47

All: 0.002+/-0.000 χ^2/NDF : 2457920.8/89

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.002 $\pm$ 0.000 χ^2 /NDF: 32592881325.6/18

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

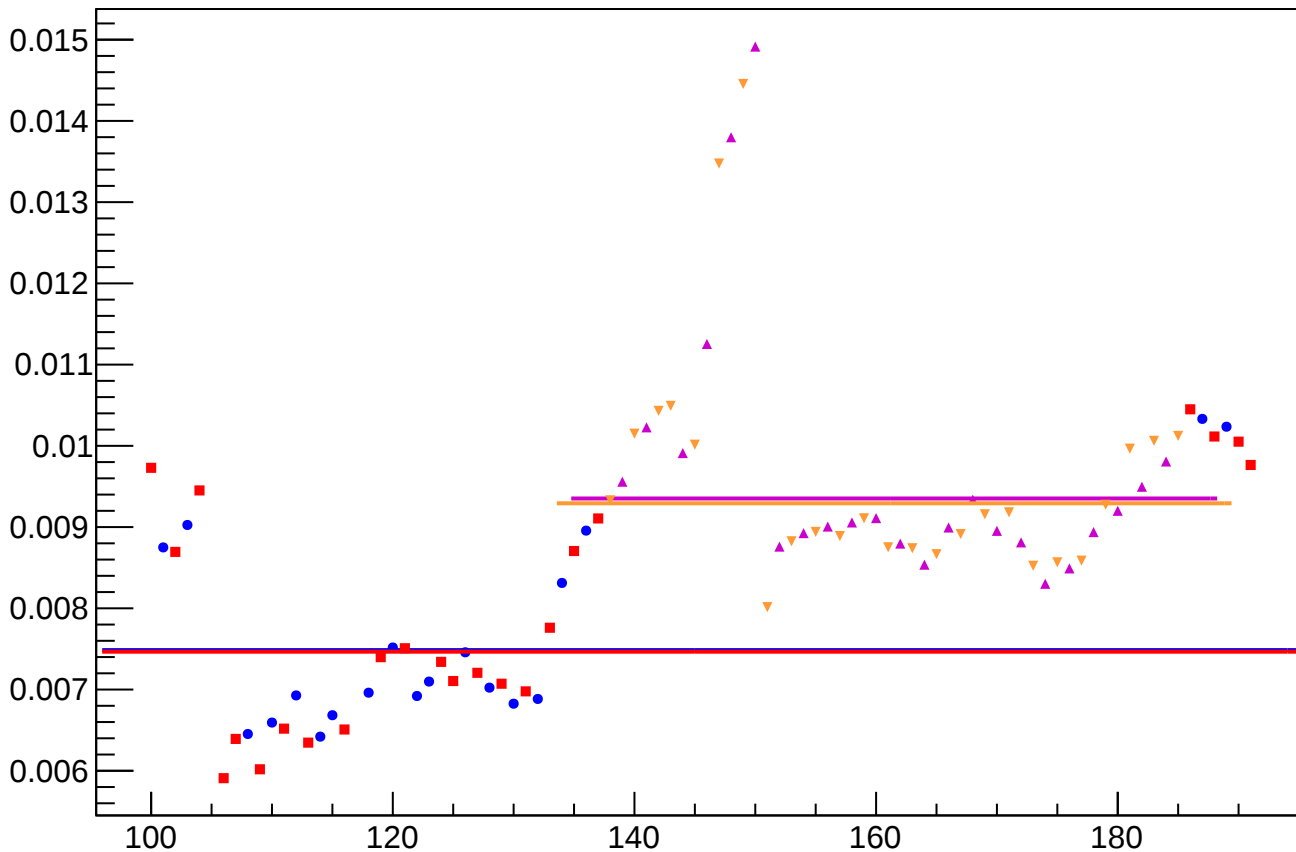
Right: 0.924 $\pm$ 0.000 χ^2 /NDF: 94310210753.4/41

In: 0.679 $\pm$ 0.000 χ^2 /NDF: 62754400387.5/41

Out: 0.635 $\pm$ 0.000 χ^2 /NDF: 81425890422.2/47

All: 0.656 $\pm$ 0.000 χ^2 /NDF: 144519390318.1

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 277592.9/18

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

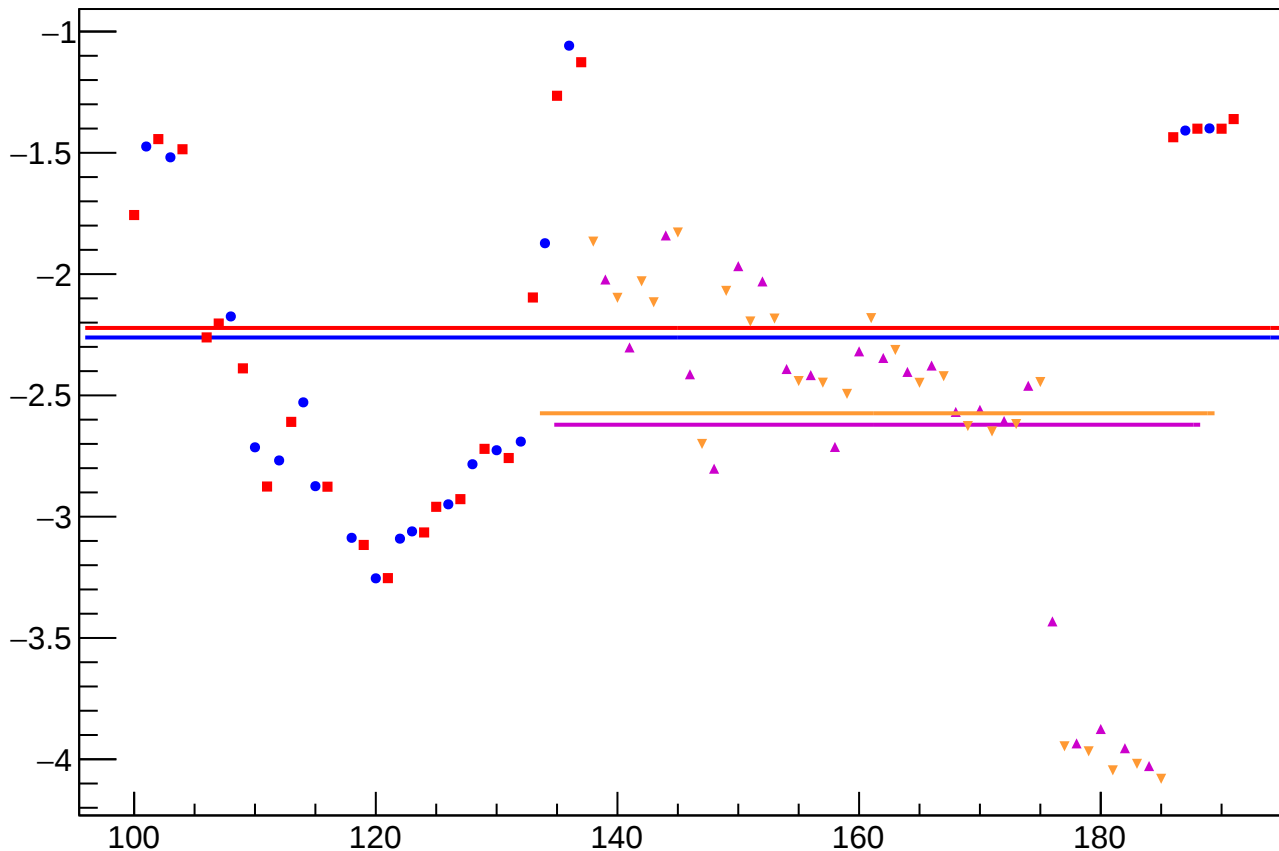
Right: 0.007+/-0.000 χ^2/NDF : 828420.3/41

In: 0.009+/-0.000 χ^2/NDF :1372383.2/41

Out: 0.009+/-0.000 χ^2/NDF :1674272.0/47

All: 0.009+/-0.000 χ^2/NDF : 3049939.3/89

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.261+/-0.000 χ^2/NDF : 78650120549.9/18

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

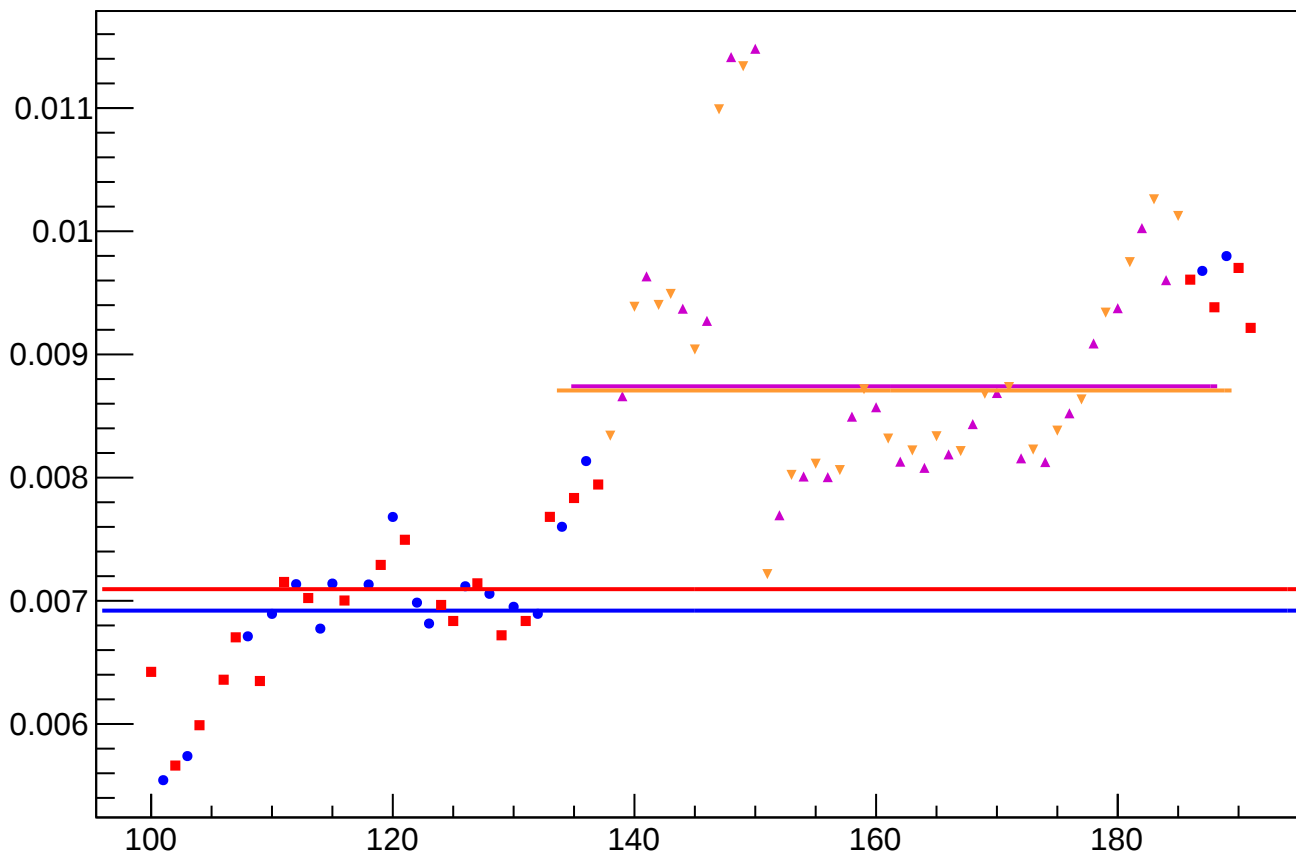
Right: -2.240+/-0.000 χ^2/NDF : 159104129444.8/41

In: -2.477+/-0.000 χ^2/NDF : 171134488554.6/41

Out: -2.426+/-0.000 χ^2/NDF : 191990821301.6/47

All: -2.450+/-0.000 χ^2/NDF : 363640502941.0

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 276663.8/18

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

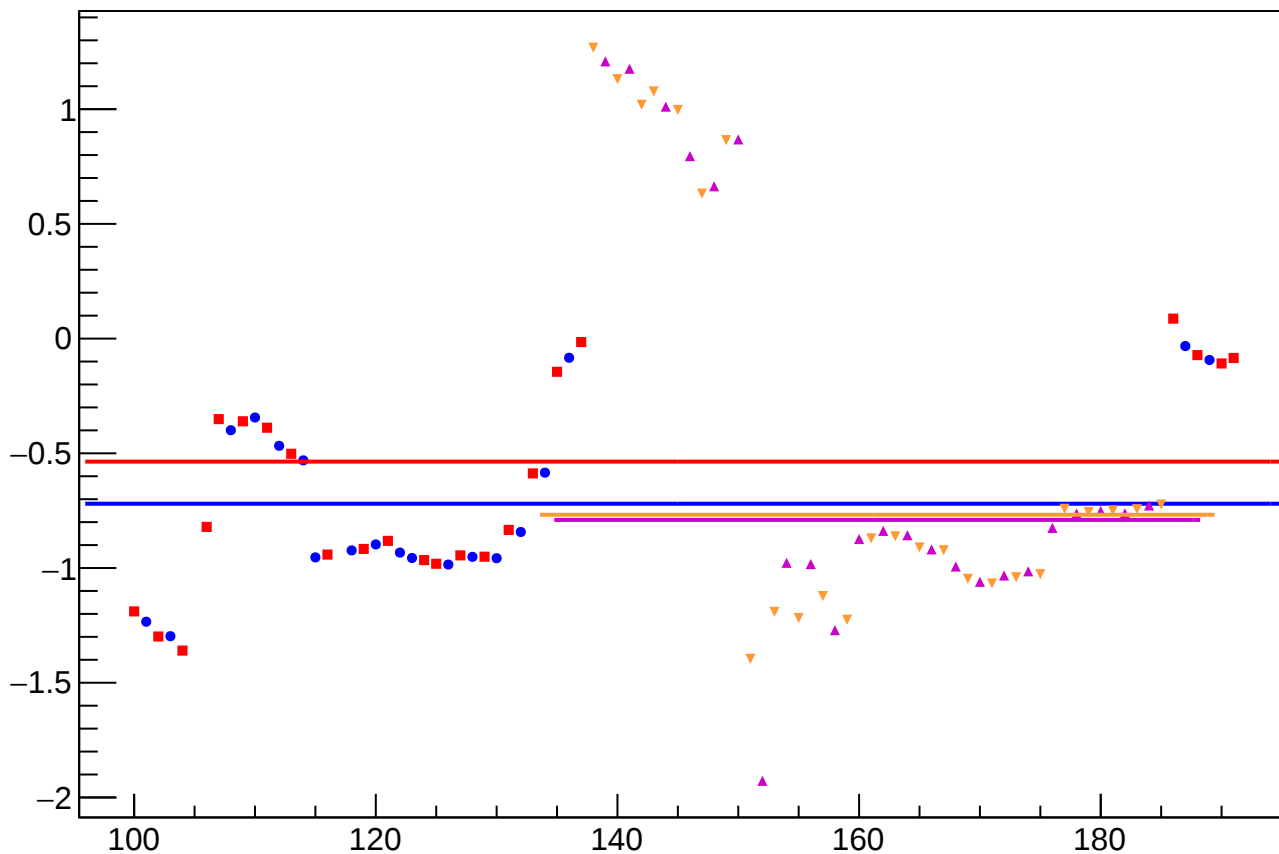
Right: 0.007+/-0.000 χ^2/NDF : 671287.8/41

In: 0.008+/-0.000 χ^2/NDF :1226322.5/41

Out: 0.008+/-0.000 χ^2/NDF :1283986.9/47

All: 0.008+/-0.000 χ^2/NDF : 2510420.1/89

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.720+/-0.000 χ^2/NDF : 11399025246.9/18

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.536+/-0.000 χ^2/NDF : 19444142943.2/22

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

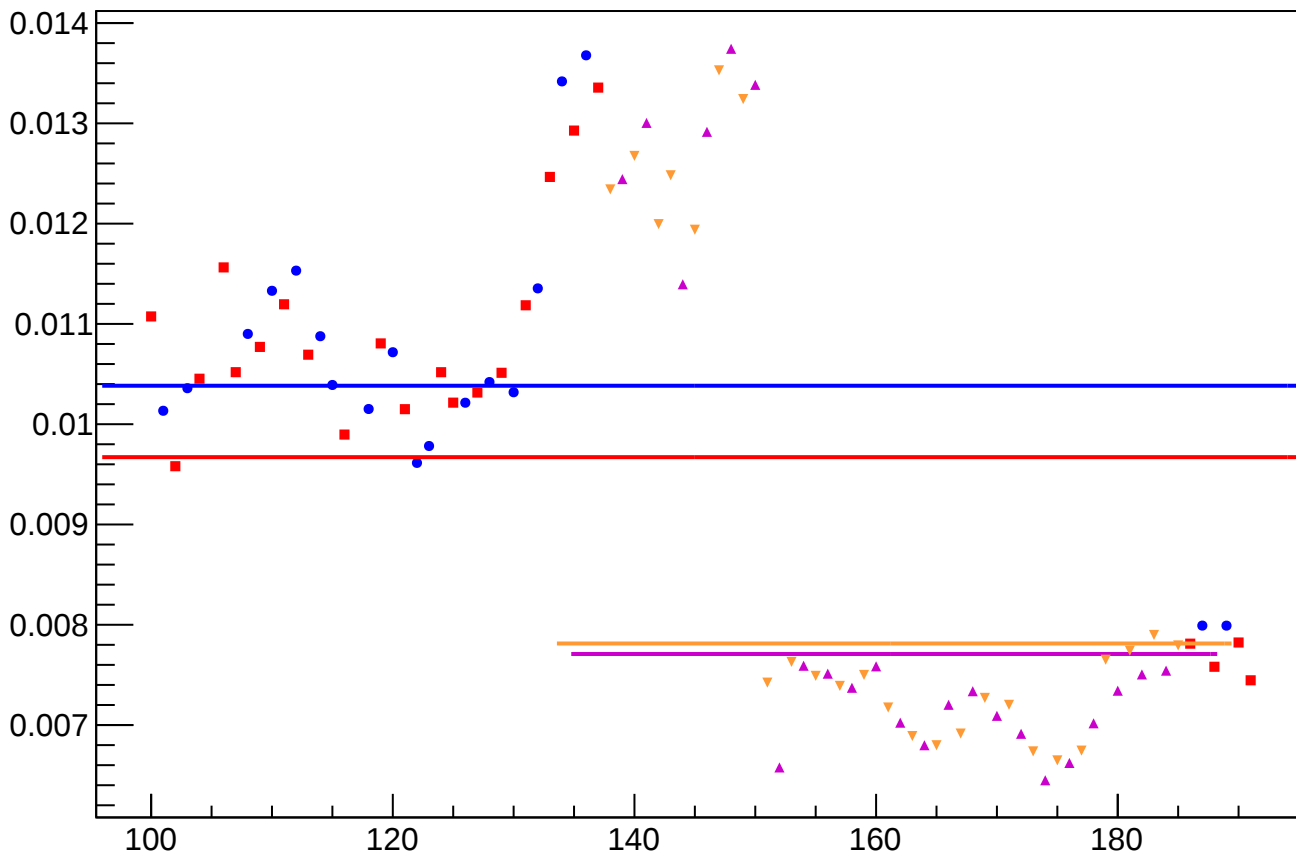
Right: -0.613+/-0.000 χ^2/NDF : 32131677487.4/41

In: -0.777+/-0.000 χ^2/NDF : 135116180576.6/41

Out: -0.711+/-0.000 χ^2/NDF : 143914265457.0/47

All: -0.742+/-0.000 χ^2/NDF : 279788867674.4

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 255838.7/18

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

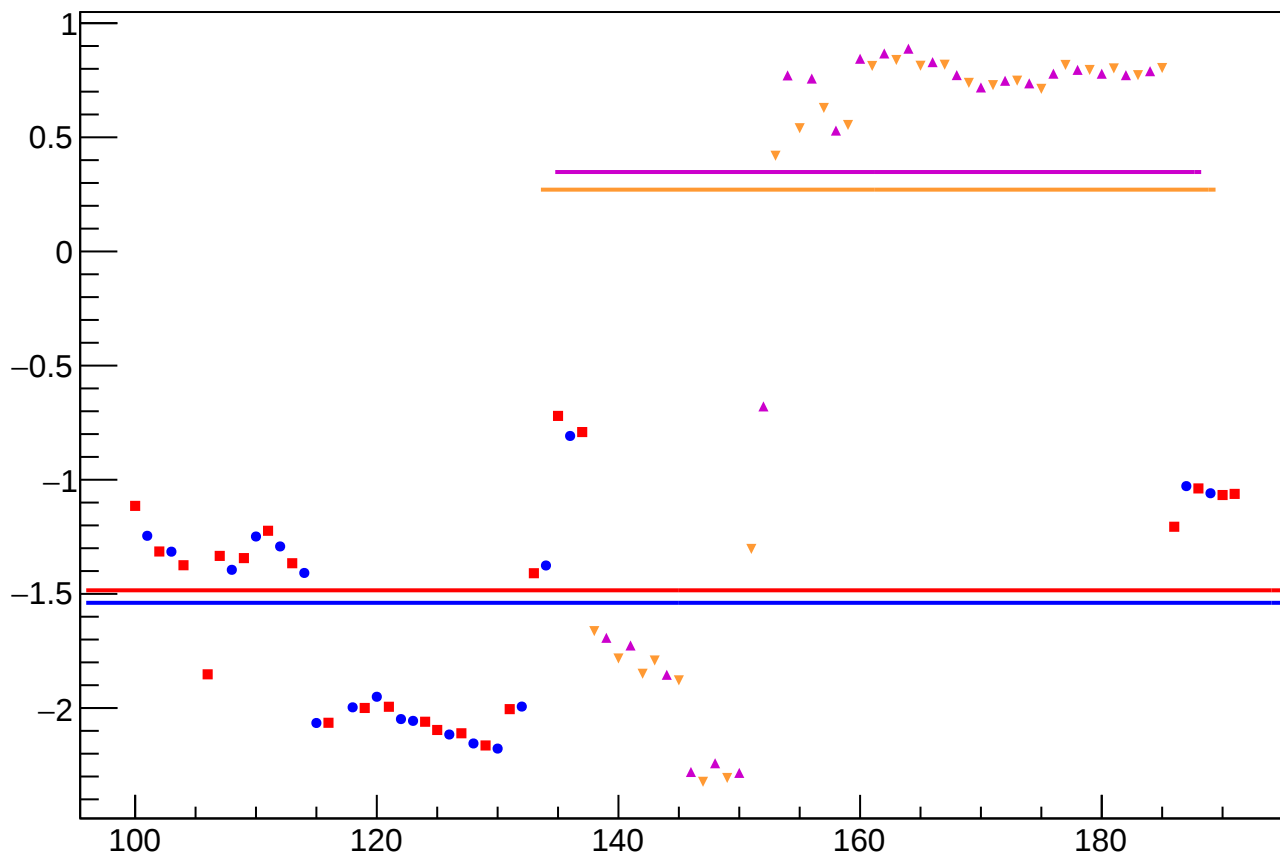
Right: 0.010+/-0.000 χ^2/NDF : 782798.1/41

In: 0.008+/-0.000 χ^2/NDF :2761797.8/41

Out: 0.008+/-0.000 χ^2/NDF :2669875.7/47

All: 0.008+/-0.000 χ^2/NDF : 5432169.5/89

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.539+/-0.000 χ^2/NDF : 160005211512.8/18

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.484+/-0.000 χ^2/NDF : 153249098944.2/22

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

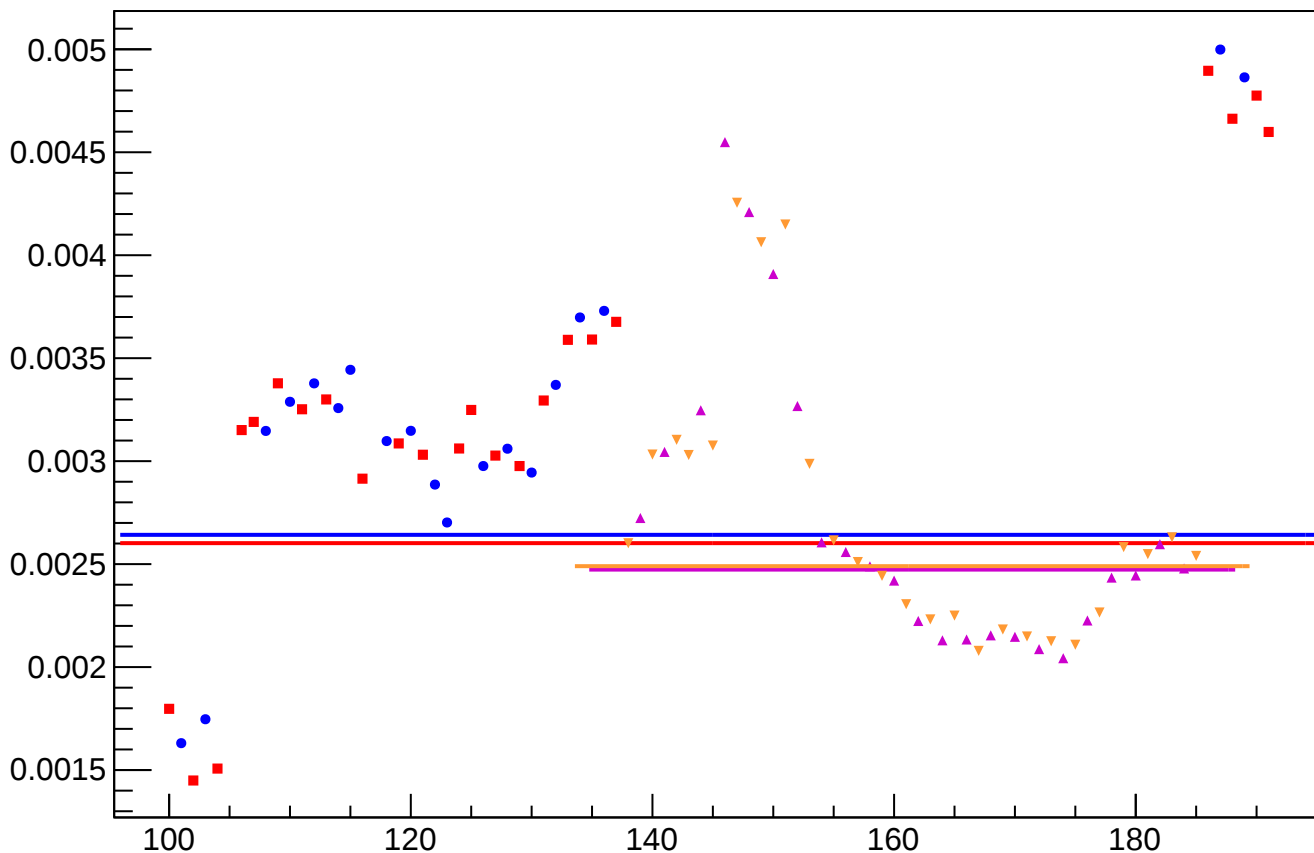
Right: -1.509+/-0.000 χ^2/NDF : 314684944014.4/41

In: -0.144+/-0.000 χ^2/NDF : 4738695214328.4/41

Out: -0.230+/-0.000 χ^2/NDF : 5041888921475.3/47

All: -0.189+/-0.000 χ^2/NDF : 9793621441412

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1280929.1/18

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1070282.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 2289177.8/22

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1135279.8/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2206266.8/47

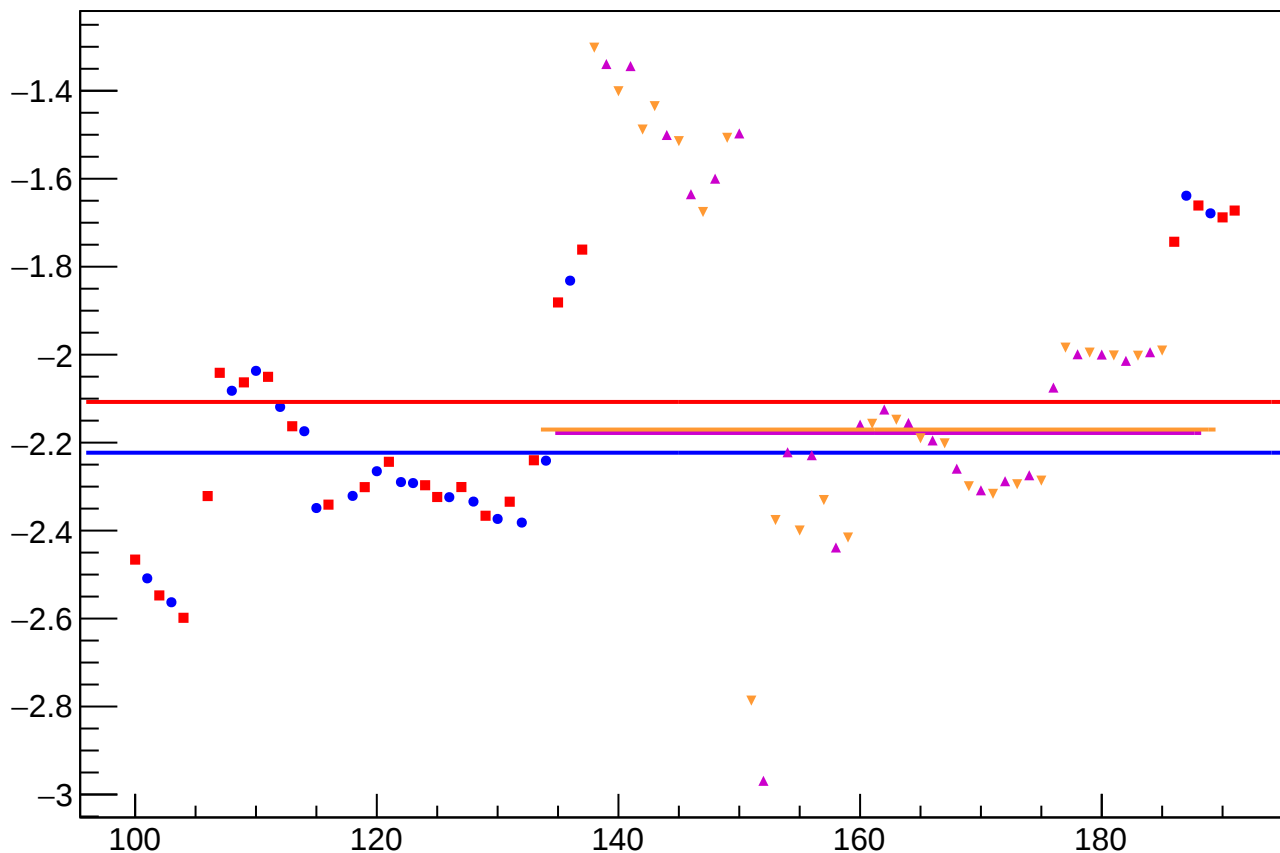
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 3571657.6/41

In: 0.003 $\pm$ 0.000 χ^2 /NDF:2453073.0/41

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:3378176.8/47

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 5831322.1/89

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.223+/-0.000 χ^2/NDF : 12743271507.0/18

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

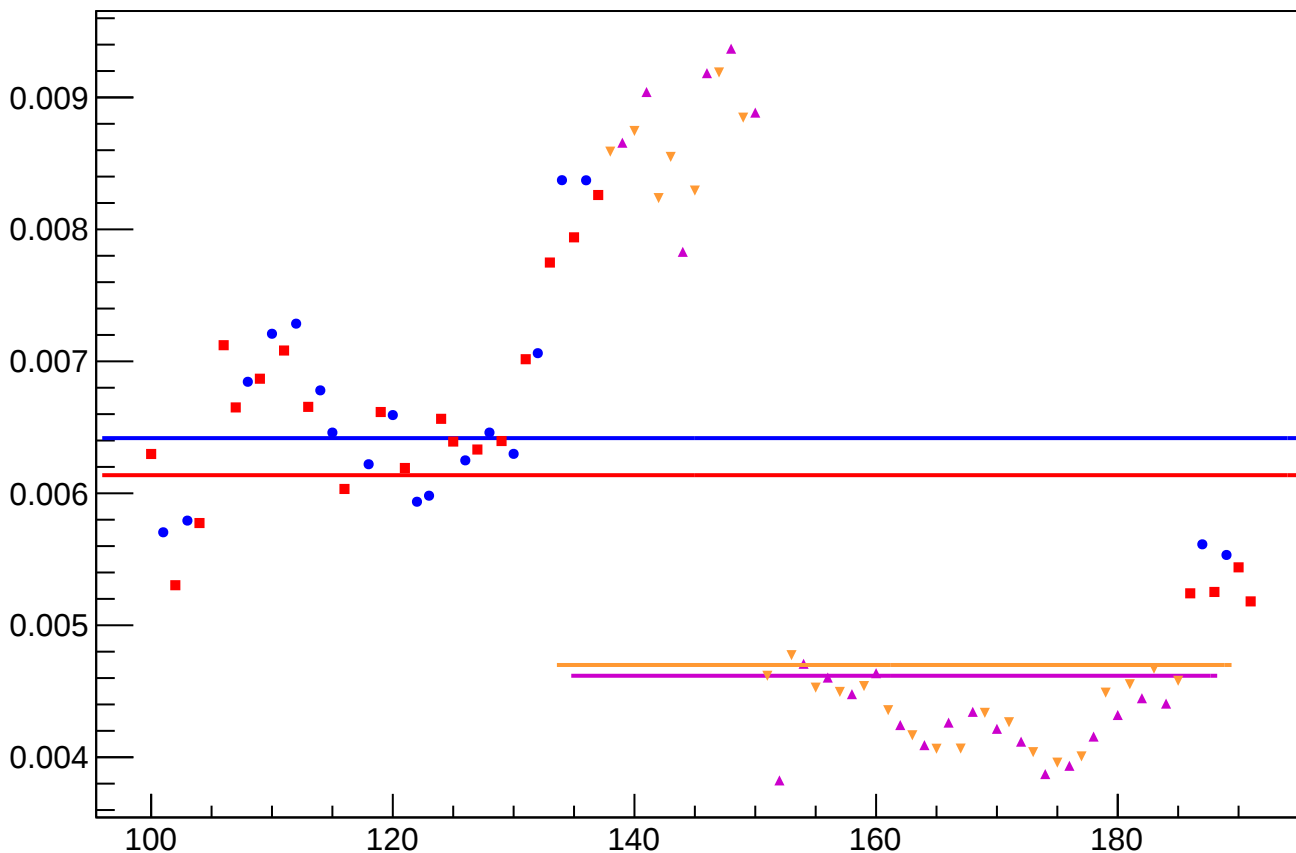
Right: -2.157+/-0.000 χ^2/NDF : 37548836494.2/41

In: -2.187+/-0.000 χ^2/NDF : 86424428673.1/41

Out: -2.156+/-0.000 χ^2/NDF : 84160572817.6/47

All: -2.171+/-0.000 χ^2/NDF : 171031253299.1

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 209664.2/18

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

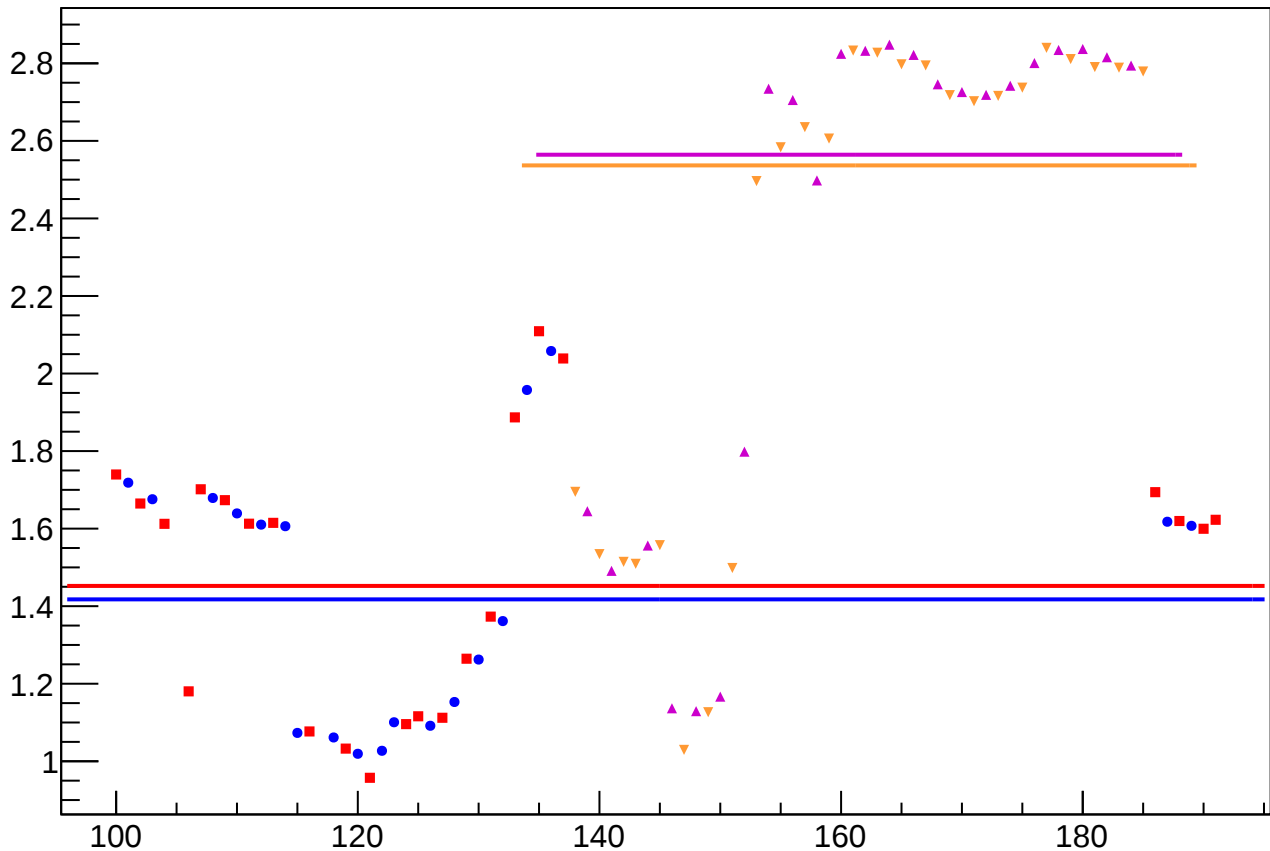
Right: 0.006+/-0.000 χ^2/NDF : 529924.1/41

In: 0.005+/-0.000 χ^2/NDF :3476001.8/41

Out: 0.005+/-0.000 χ^2/NDF :3345783.7/47

All: 0.005+/-0.000 χ^2/NDF : 6826790.7/89

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.418+/-0.000 χ^2/NDF : 172555509903.7/18

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

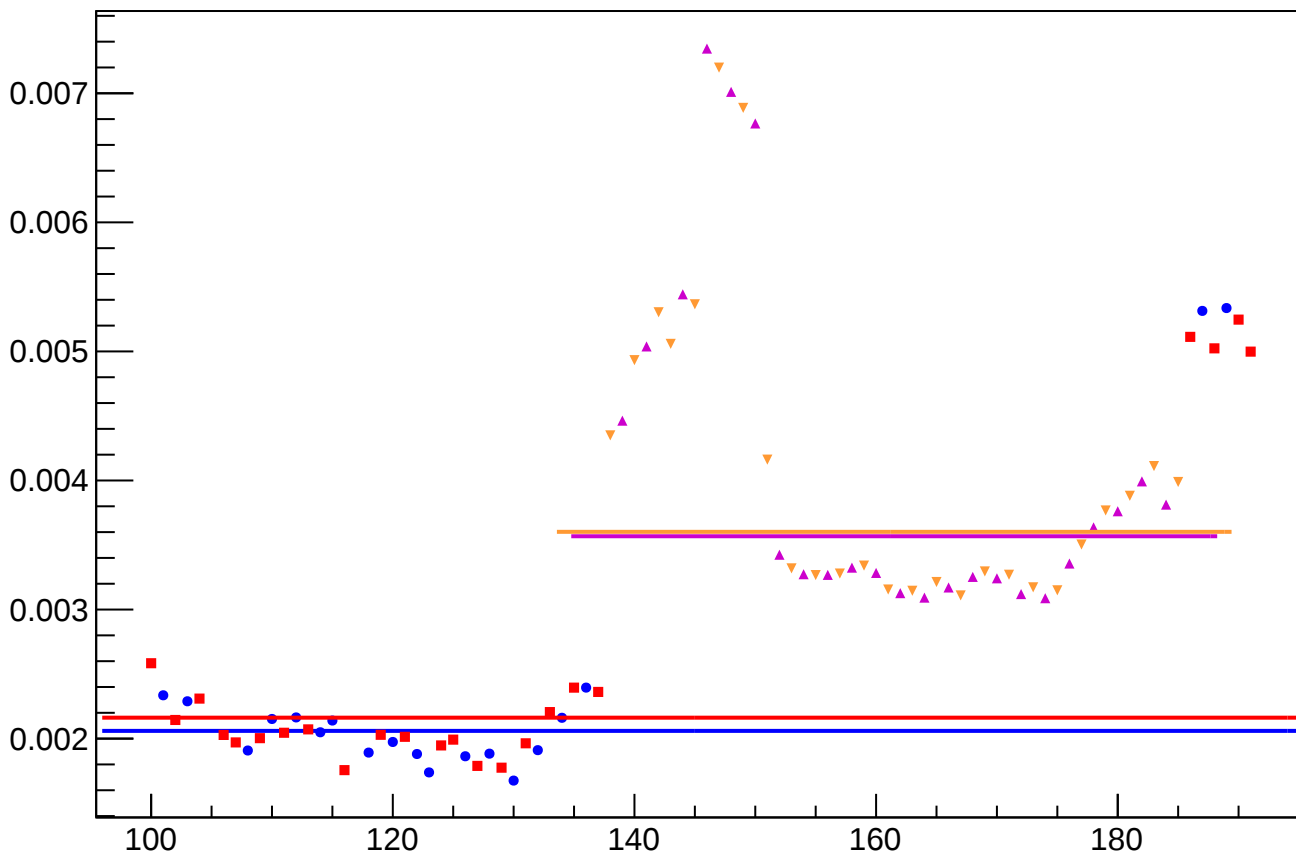
Right: 1.435+/-0.000 χ^2/NDF : 348889939127.6/41

In: 1.926+/-0.000 χ^2/NDF : 1330323863916.5/41

Out: 1.929+/-0.000 χ^2/NDF : 1294536308916.8/47

All: 1.927+/-0.000 χ^2/NDF : 2624869850168.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 624860.8/18

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

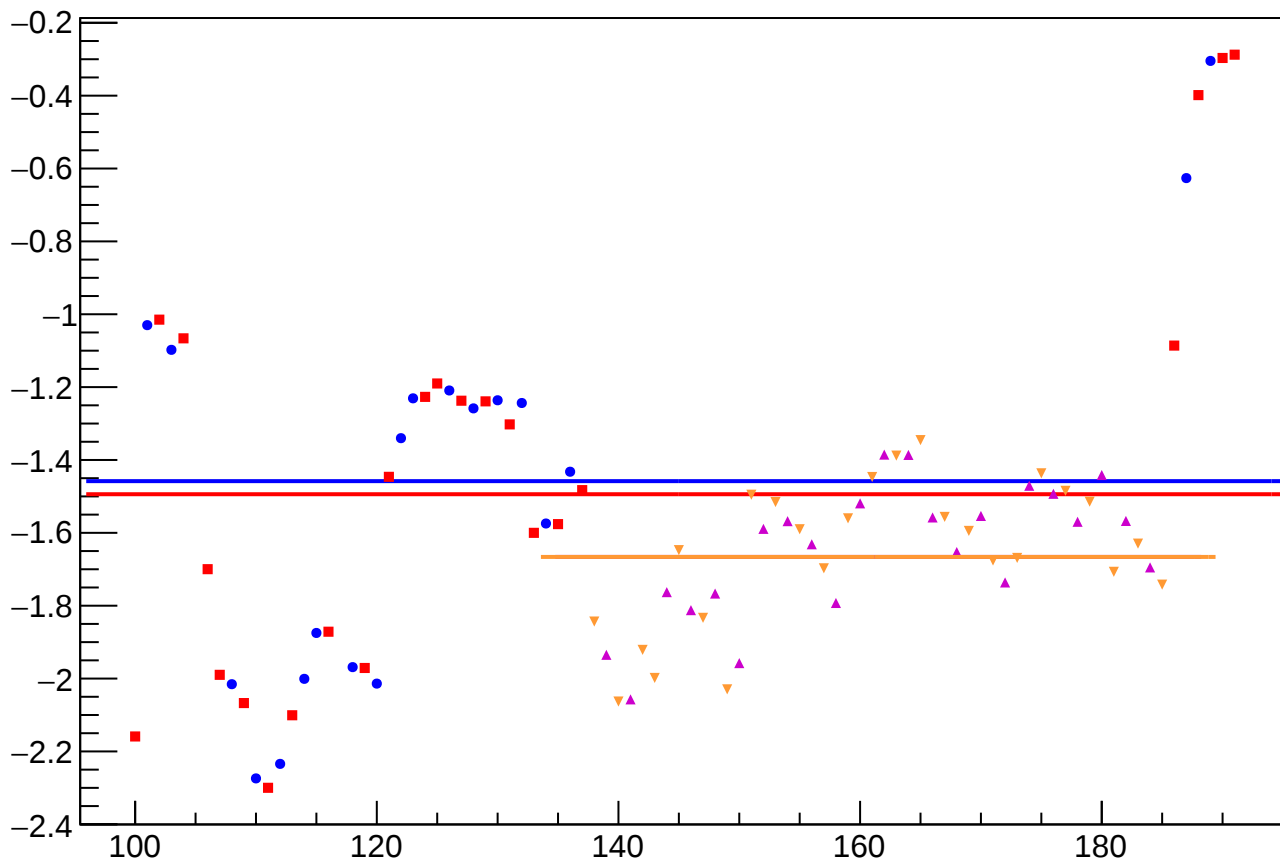
Right: 0.002+/-0.000 χ^2/NDF : 2030779.1/41

In: 0.003+/-0.000 χ^2/NDF :5291785.8/41

Out: 0.003+/-0.000 χ^2/NDF :5795270.0/47

All: 0.003+/-0.000 χ^2/NDF : 11099548.7/89

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.458+/-0.000 χ^2/NDF : 28509110265.8/18

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

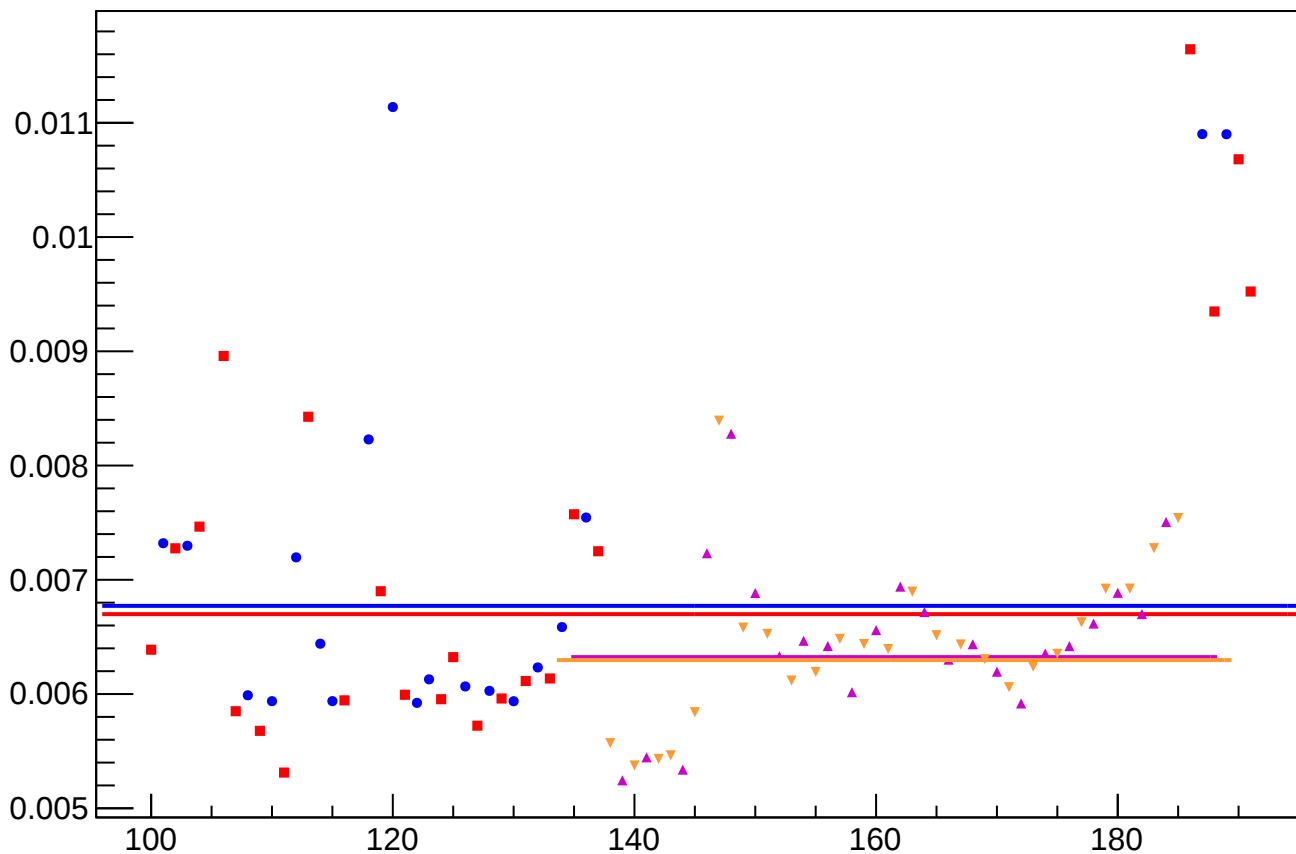
Right: -1.478+/-0.000 χ^2/NDF : 78900419233.1/41

In: -1.612+/-0.000 χ^2/NDF : 47393189164.4/41

Out: -1.616+/-0.000 χ^2/NDF : 72417645458.7/47

All: -1.614+/-0.000 χ^2/NDF : 119814816613.4

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 404966.1/18

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

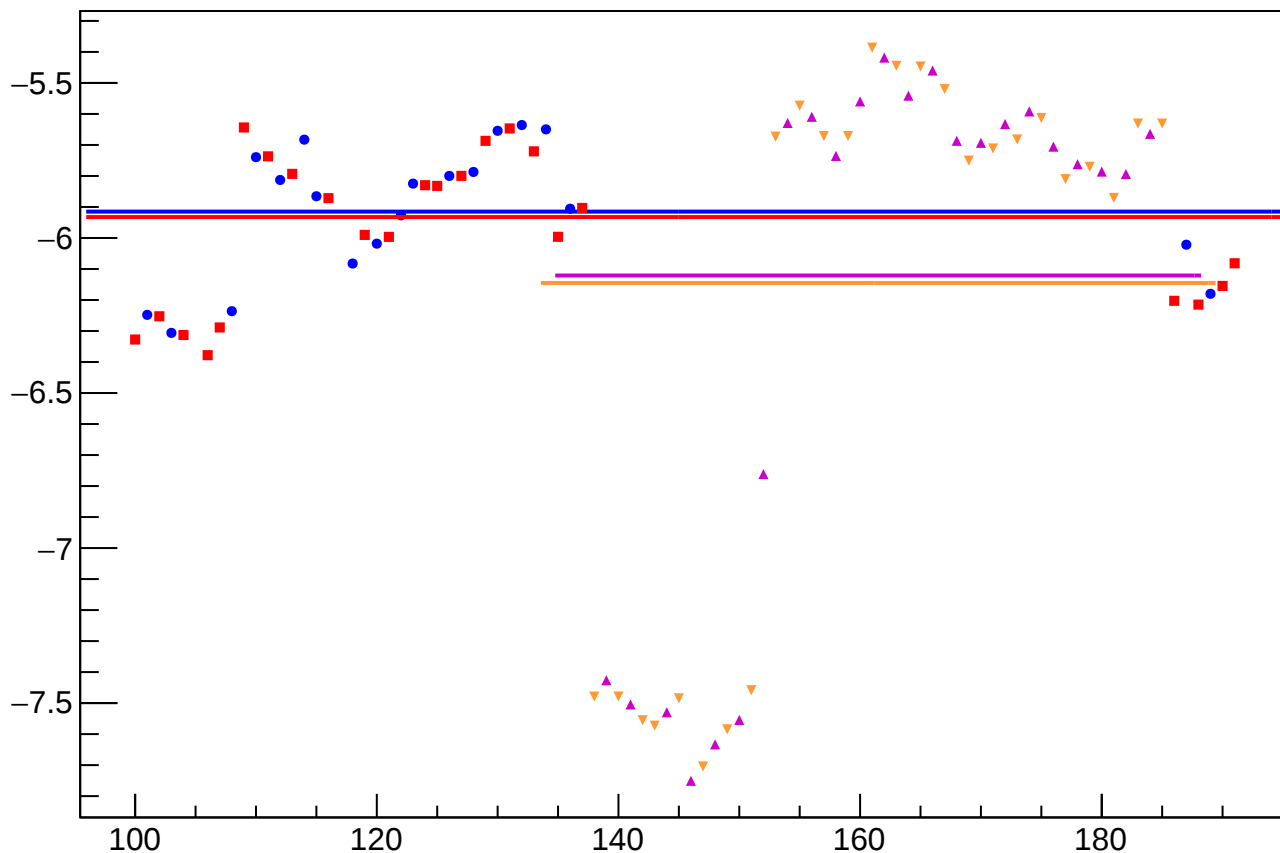
Right: 0.007+/-0.000 χ^2/NDF : 1071710.9/41

In: 0.006+/-0.000 χ^2/NDF :778555.5/41

Out: 0.006+/-0.000 χ^2/NDF :1018184.5/47

All: 0.006+/-0.000 χ^2/NDF : 1797102.8/89

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.915+/-0.000 χ^2/NDF : 11346729699.8/18

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

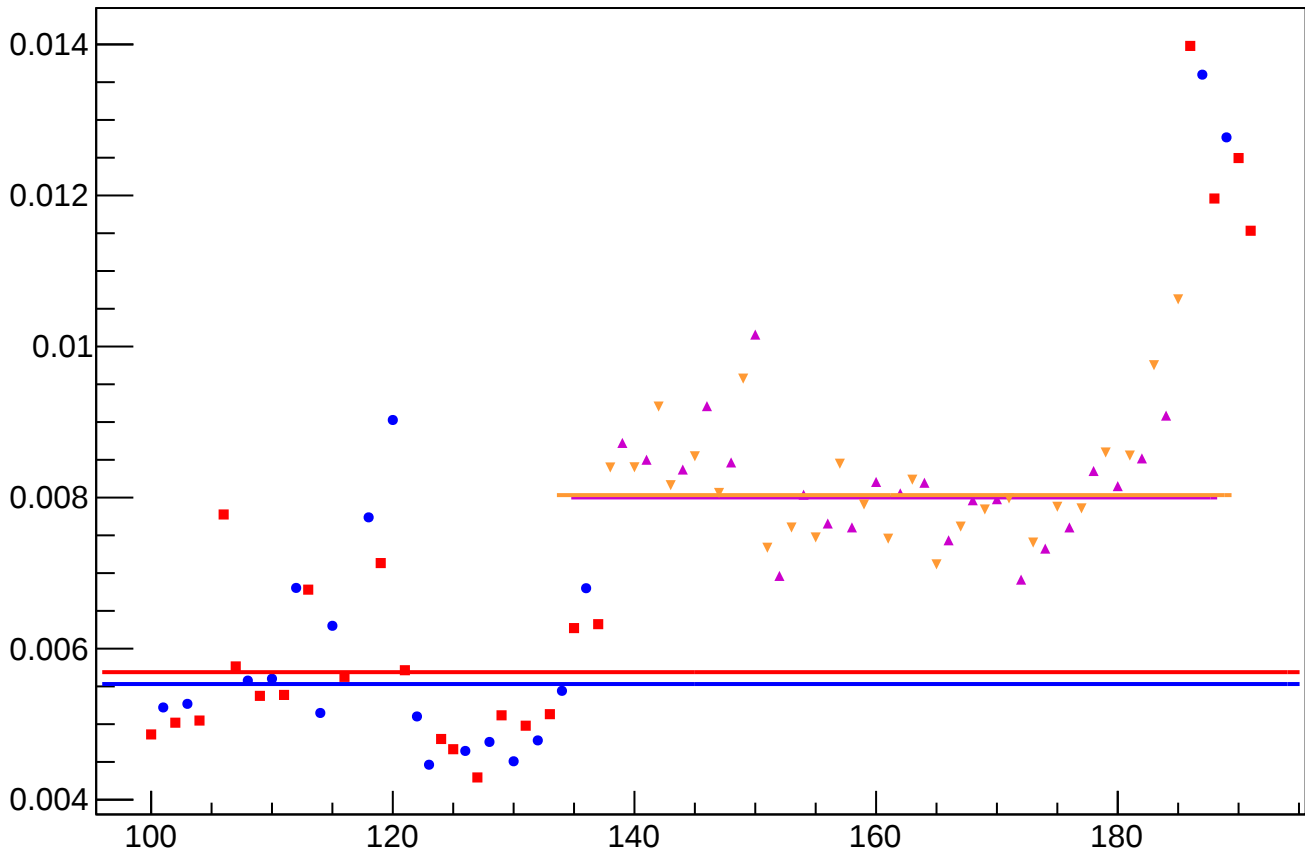
Right: -5.924+/-0.000 χ^2/NDF : 24986538811.7/41

In: -6.027+/-0.000 χ^2/NDF : 174422954267.1/41

Out: -6.044+/-0.000 χ^2/NDF : 204512486268.6/47

All: -6.036+/-0.000 χ^2/NDF : 378998437146.9

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 771148.7/18

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

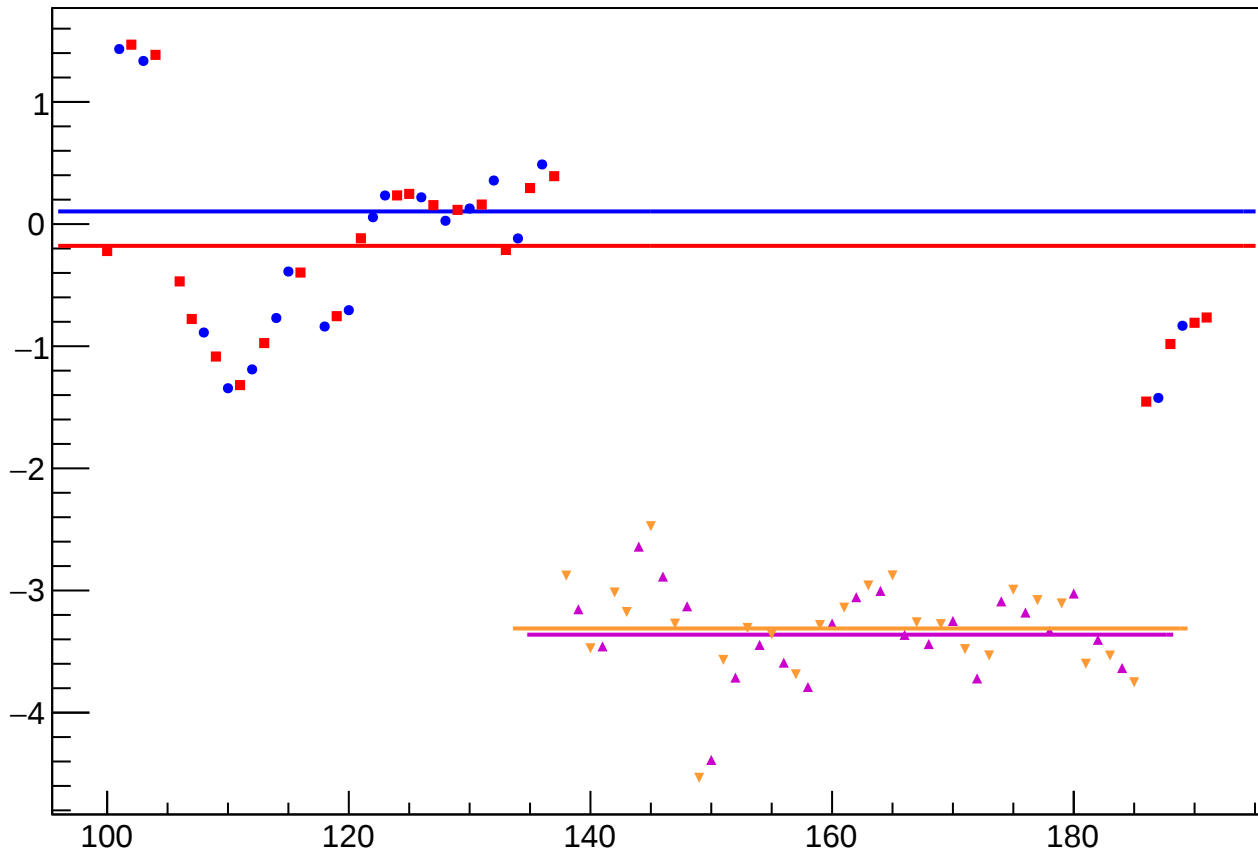
Right: 0.006+/-0.000 χ^2/NDF : 2121358.4/41

In: 0.007+/-0.000 χ^2/NDF :2359776.6/41

Out: 0.007+/-0.000 χ^2/NDF :2898140.4/47

All: 0.007+/-0.000 χ^2/NDF : 5258522.2/89

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.104+/-0.000 χ^2/NDF : 18833199567.7/18

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

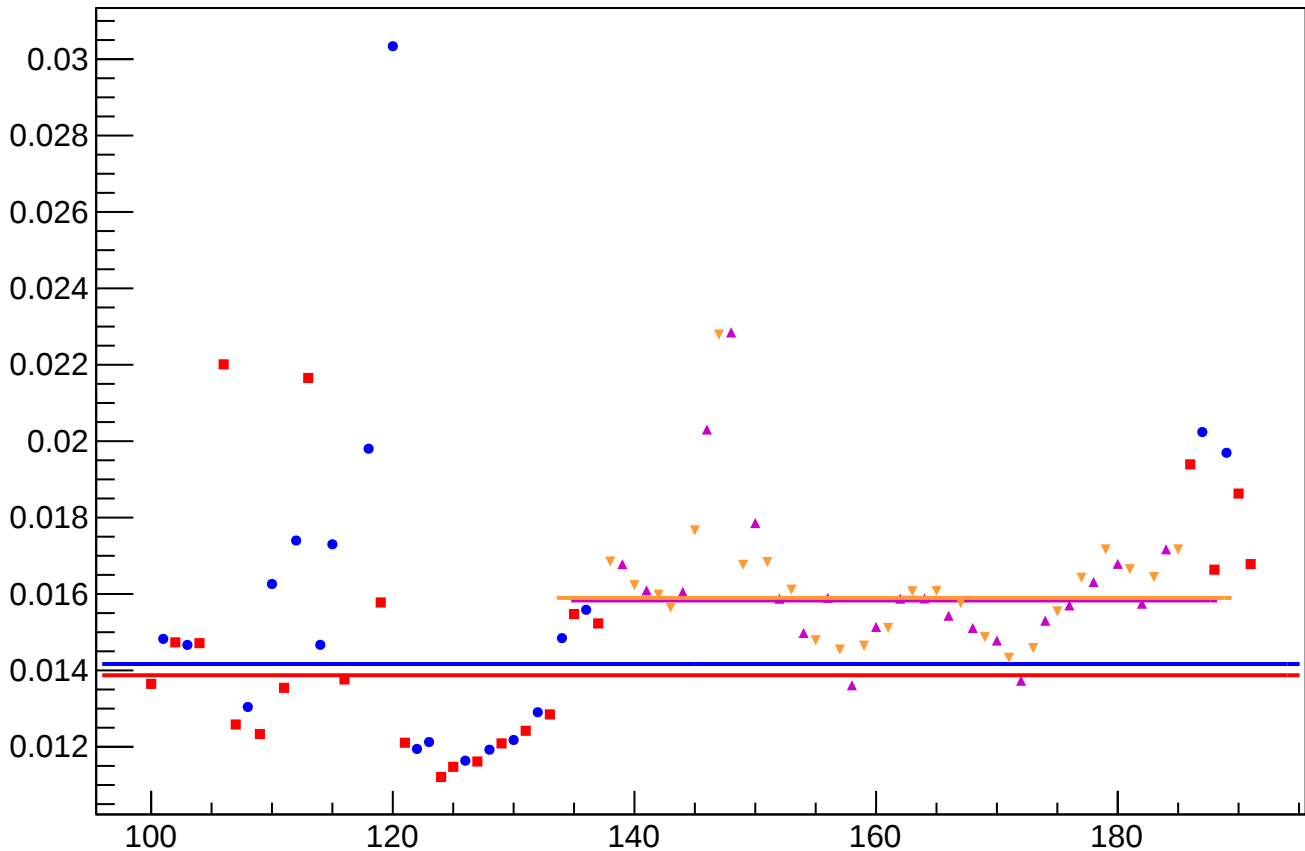
Right: -0.057+/-0.000 χ^2/NDF : 46273236497.9/41

In: -2.232+/-0.000 χ^2/NDF : 286453488240.4/41

Out: -2.132+/-0.000 χ^2/NDF : 293629825936.3/47

All: -2.179+/-0.000 χ^2/NDF : 580604375506.5

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 501409.0/18

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

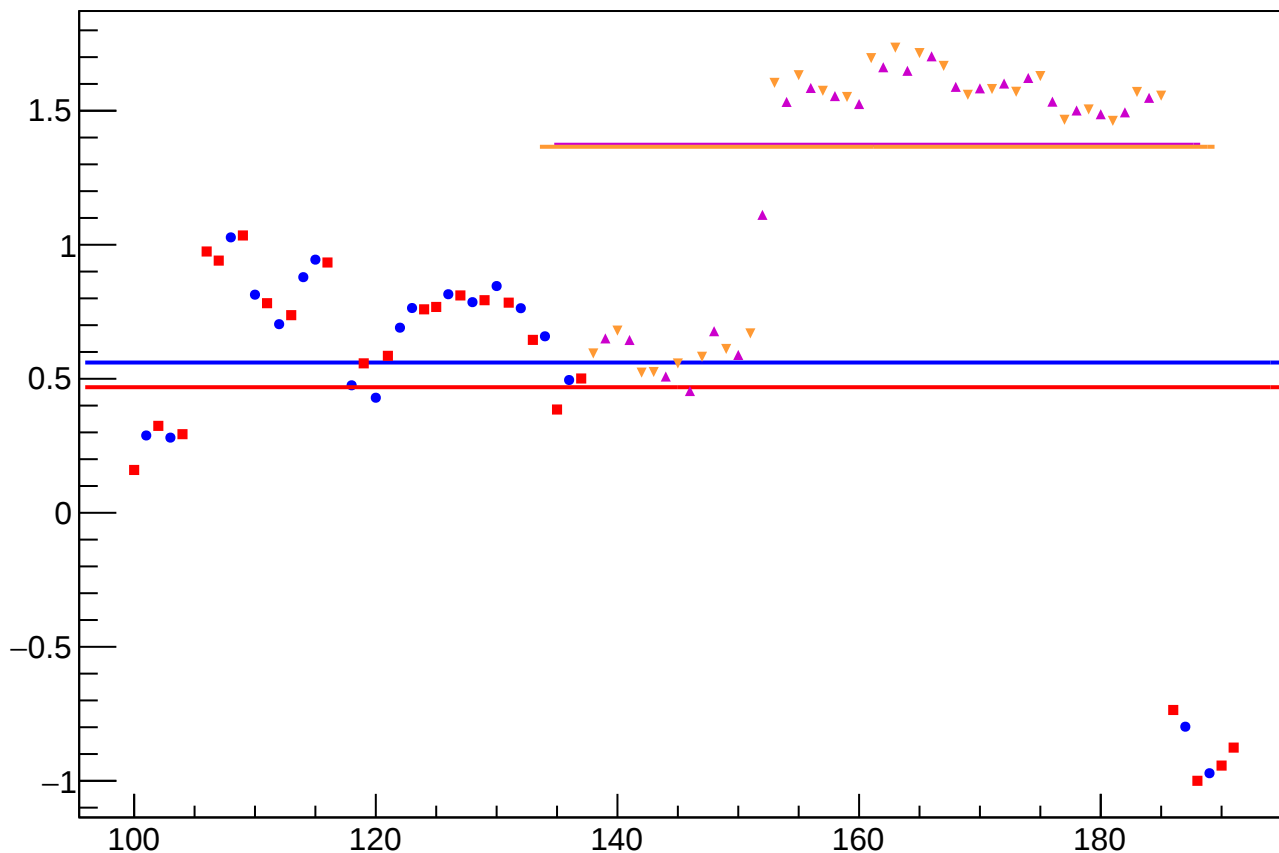
Right: 0.014+/-0.000 χ^2/NDF : 982416.5/41

In: 0.015+/-0.000 χ^2/NDF : 960537.8/41

Out: 0.015+/-0.000 χ^2/NDF : 945647.5/47

All: 0.015+/-0.000 χ^2/NDF : 1908604.7/89

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.561 $\pm$ 0.000 χ^2 /NDF: 13865543577.6/18

Left Out: 1.366 $\pm$ 0.000 χ^2 /NDF: 74741956067.9/24

Right Out: 0.469 $\pm$ 0.000 χ^2 /NDF: 33118883539.9/22

Left In: 1.373 $\pm$ 0.000 χ^2 /NDF: 63413151416.3/22

Left: 1.369 $\pm$ 0.000 χ^2 /NDF: 138167468300.7/47

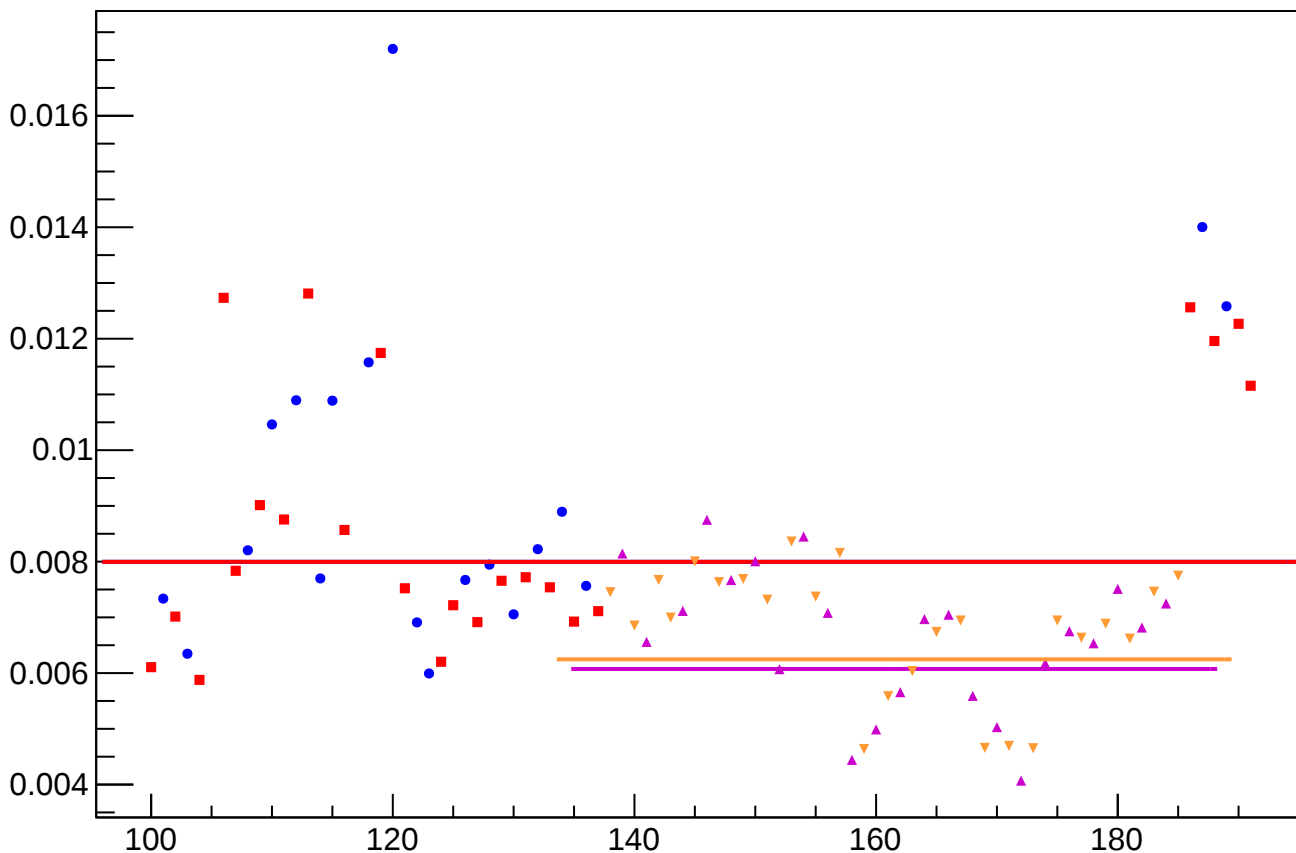
Right: 0.510 $\pm$ 0.000 χ^2 /NDF: 47445253532.6/41

In: 1.221 $\pm$ 0.000 χ^2 /NDF: 130184747578.1/41

Out: 1.167 $\pm$ 0.000 χ^2 /NDF: 183680974257.6/47

All: 1.193 $\pm$ 0.000 χ^2 /NDF: 314638711724.0

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 646513.7/18

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 886103.8/22

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2775615.7/47

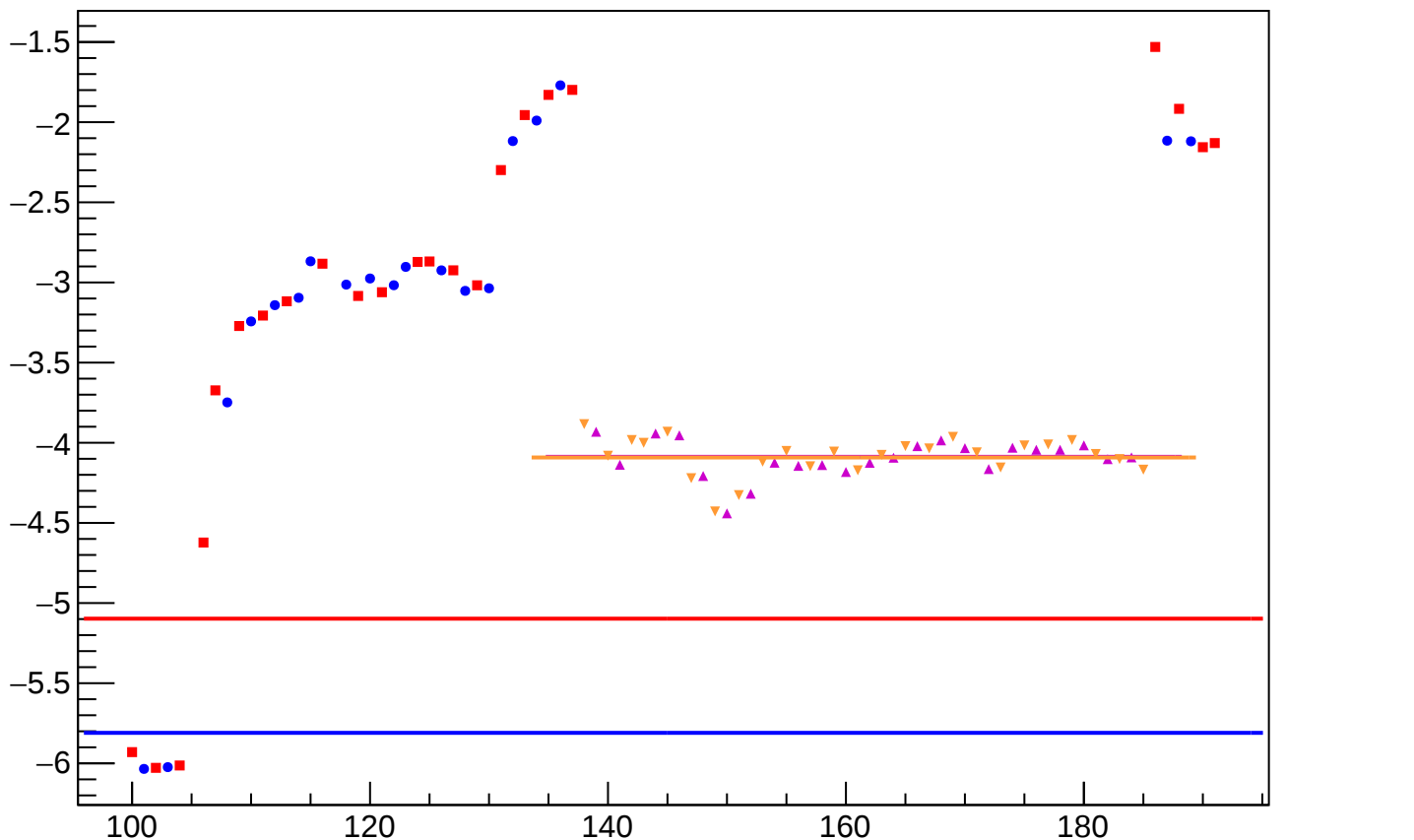
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 1532617.5/41

In: 0.006 $\pm$ 0.000 χ^2 /NDF:2670644.8/41

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:2793881.7/47

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 5485886.2/89

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.810+/-0.000 χ^2/NDF : 38076260148.0/18

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

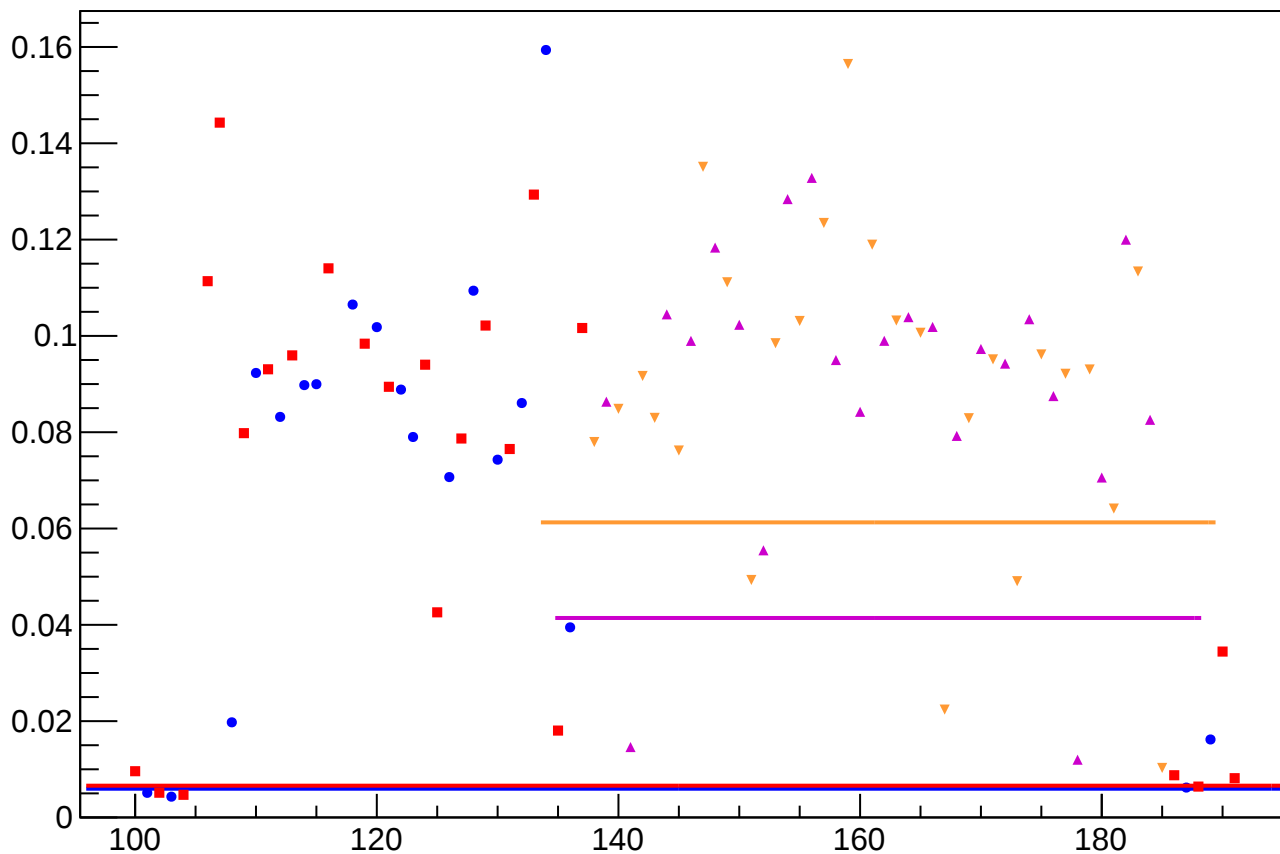
Right: -5.458+/-0.000 χ^2/NDF : 190741156529.1/41

In: -5.672+/-0.000 χ^2/NDF : 49747756325.8/41

Out: -5.039+/-0.000 χ^2/NDF : 143216491917.8/47

All: -5.364+/-0.000 χ^2/NDF : 203405998094.6

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 7989218.2/18

Left Out: 0.061 $\pm$ 0.000 χ^2 /NDF:8355266.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 8669237.5/22

Left In: 0.041 $\pm$ 0.000 χ^2 /NDF:13124468.7/22

Left: 0.050 $\pm$ 0.000 χ^2 /NDF: 22855159.2/47

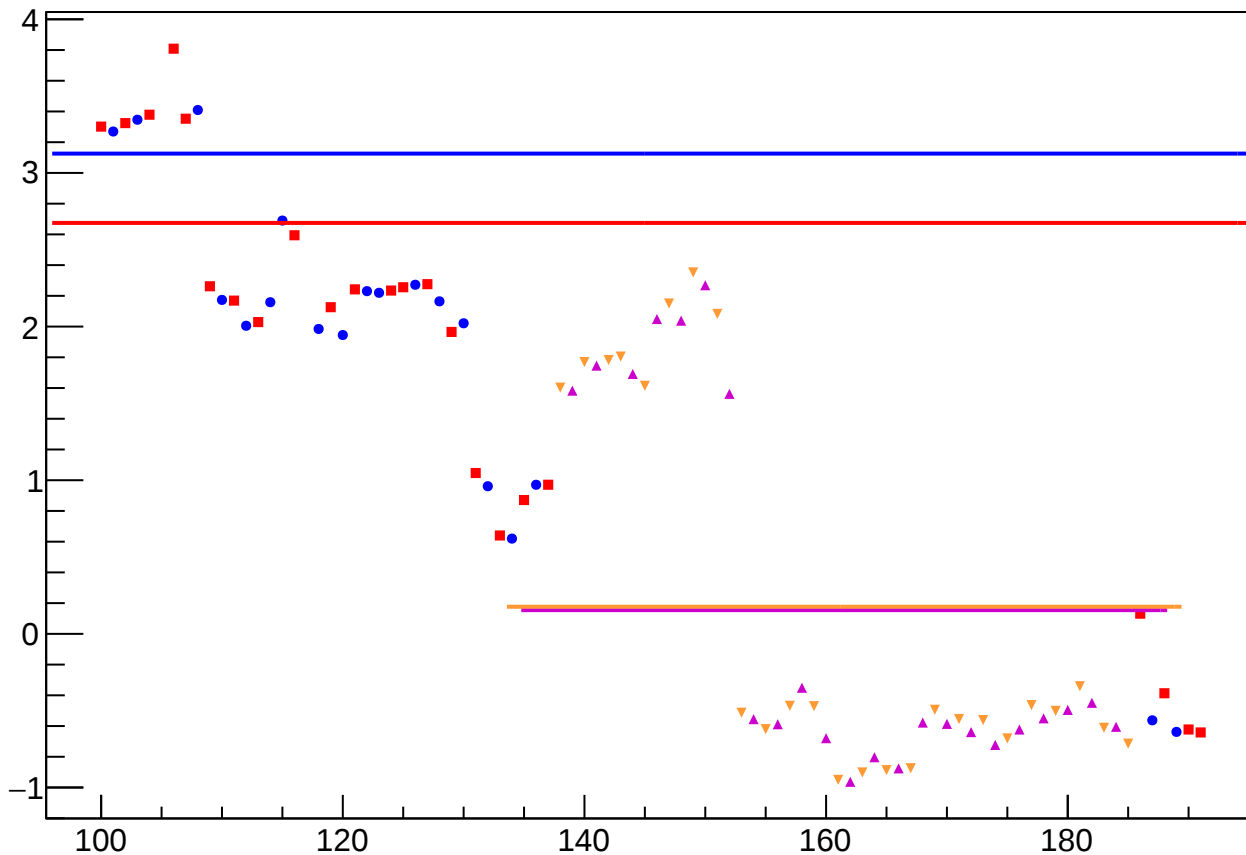
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 16677566.8/41

In: 0.009 $\pm$ 0.000 χ^2 /NDF:30979079.7/41

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:33654699.3/47

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 64683377.9/89

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.126 $\pm$ 0.000 χ^2/NDF : 17680810293.8/18

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

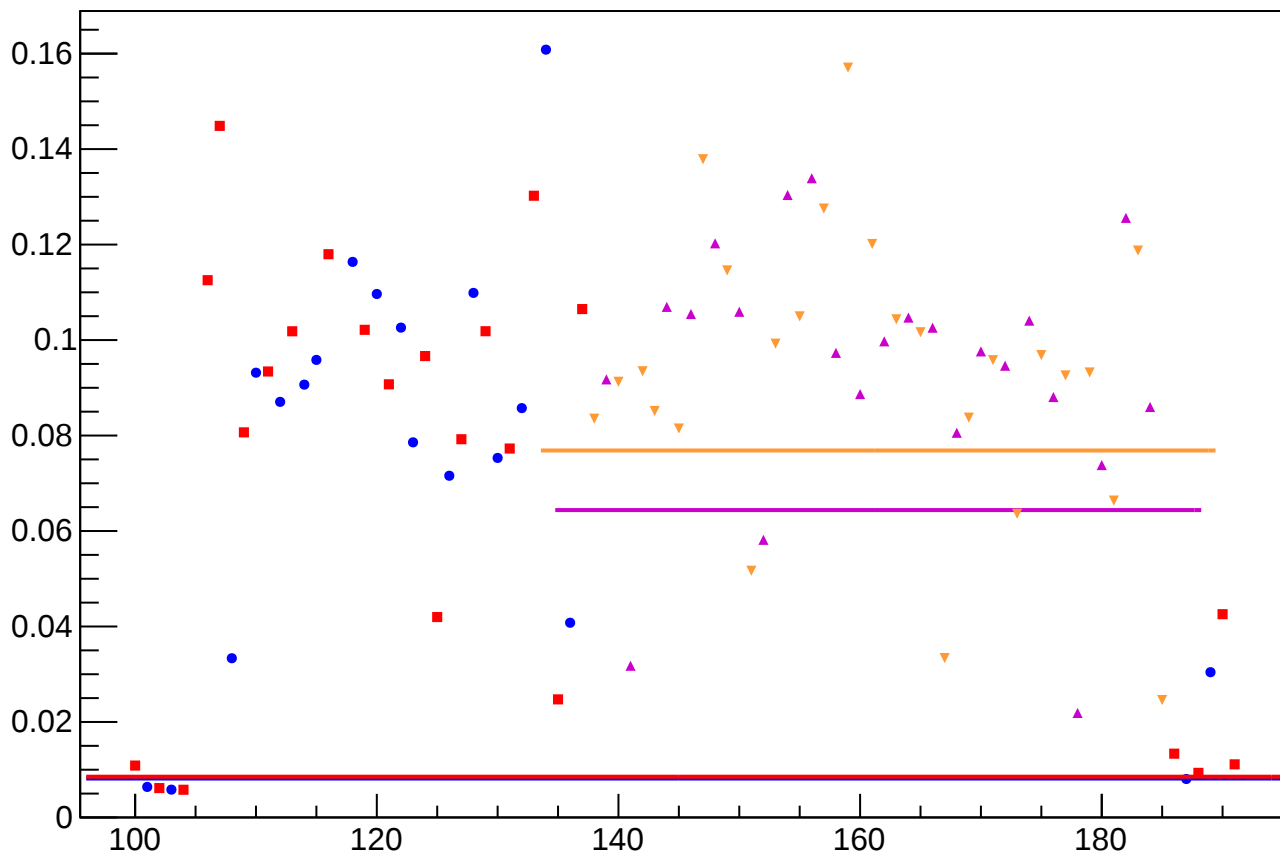
Right: 2.893 $\pm$ 0.000 χ^2/NDF : 83479086312.3/41

In: 2.889 $\pm$ 0.000 χ^2/NDF : 41806053470.3/41

Out: 2.509 $\pm$ 0.000 χ^2/NDF : 79144630834.1/47

All: 2.694 $\pm$ 0.000 χ^2/NDF : 123356261522.4

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7891362.2/18

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

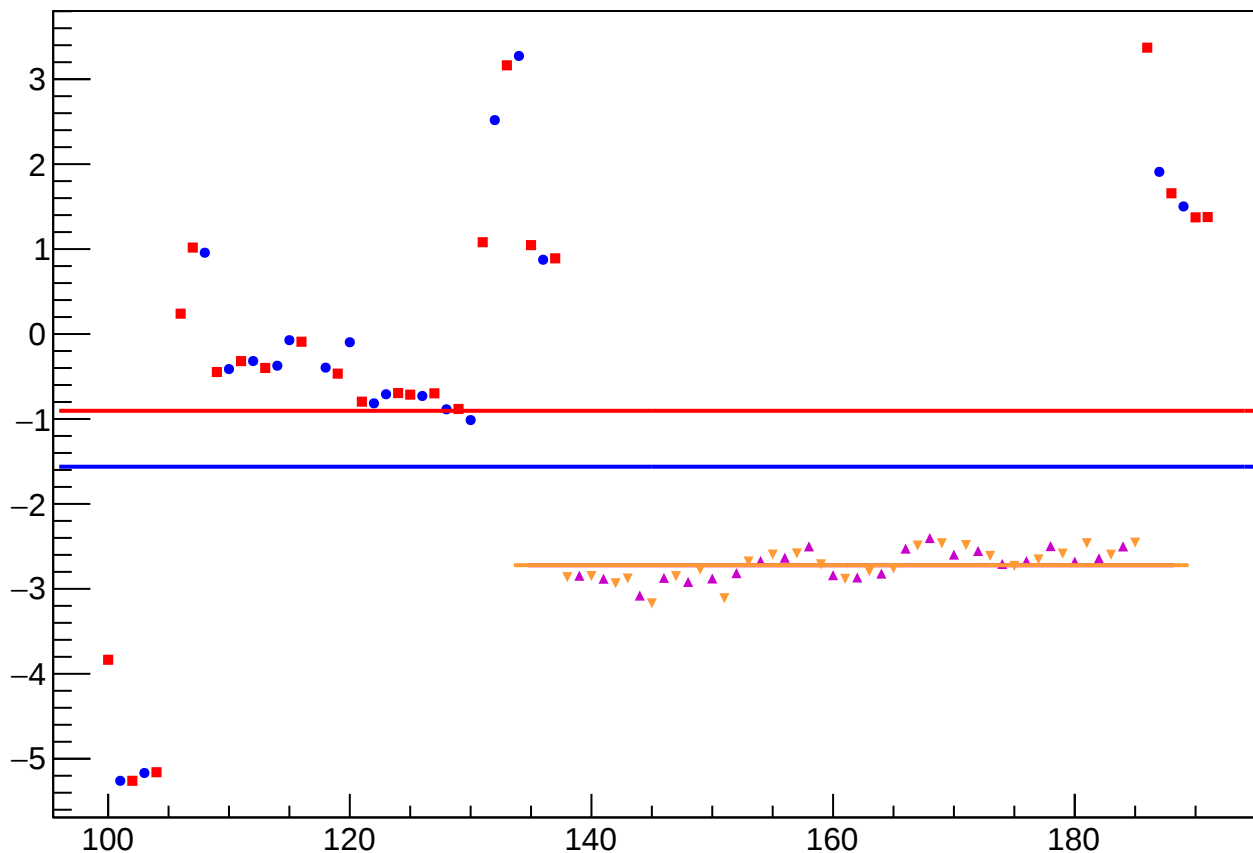
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16452193.5/41

In: 0.013 $\pm$ 0.000 χ^2 /NDF:29893278.9/41

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:32540400.6/47

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 62440029.0/89

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.562+/-0.000 χ^2/NDF : 177031600221.0/18

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

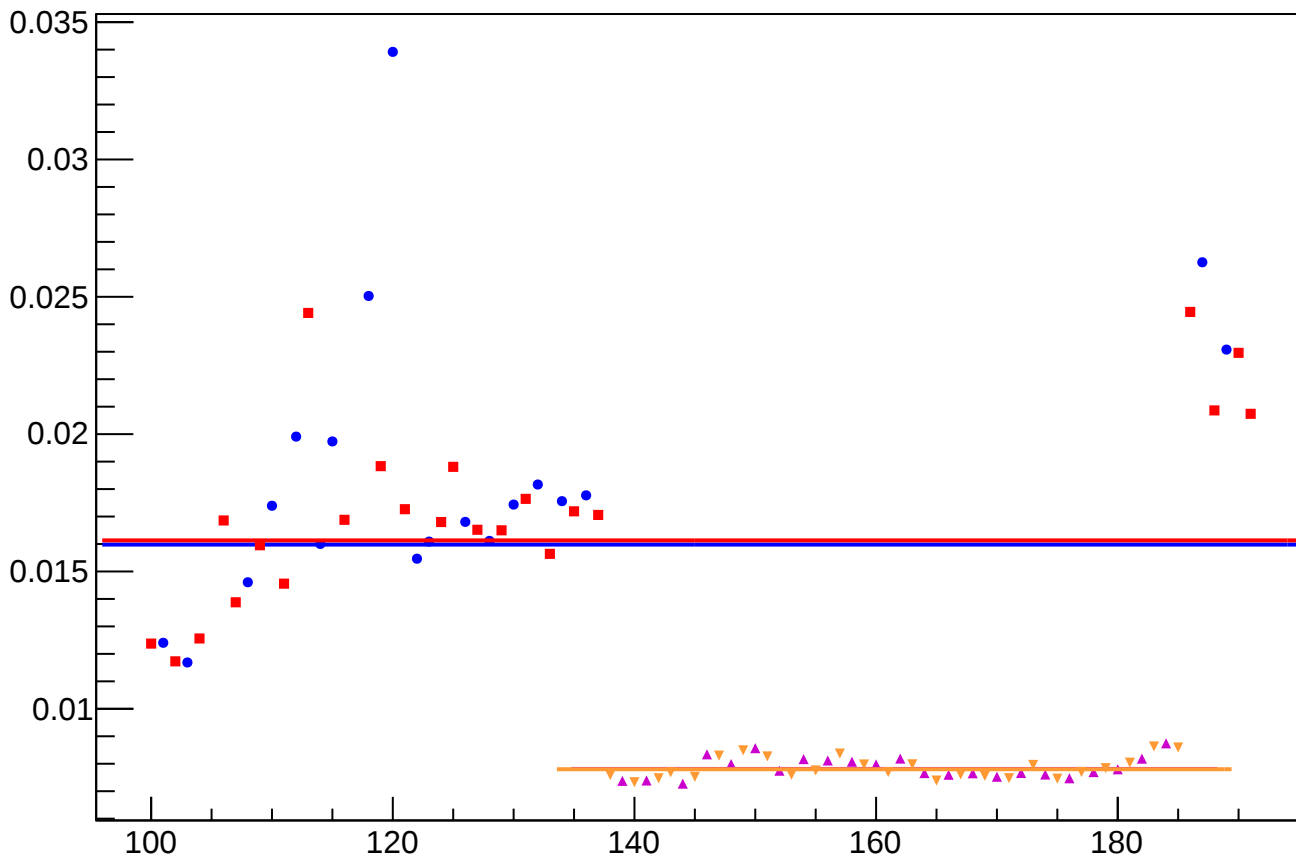
Right: -1.195+/-0.000 χ^2/NDF : 395129032477.2/41

In: -2.629+/-0.000 χ^2/NDF : 214811387264.7/41

Out: -2.551+/-0.000 χ^2/NDF : 312828057814.4/47

All: -2.588+/-0.000 χ^2/NDF : 528573947888.1

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 709402.5/18

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

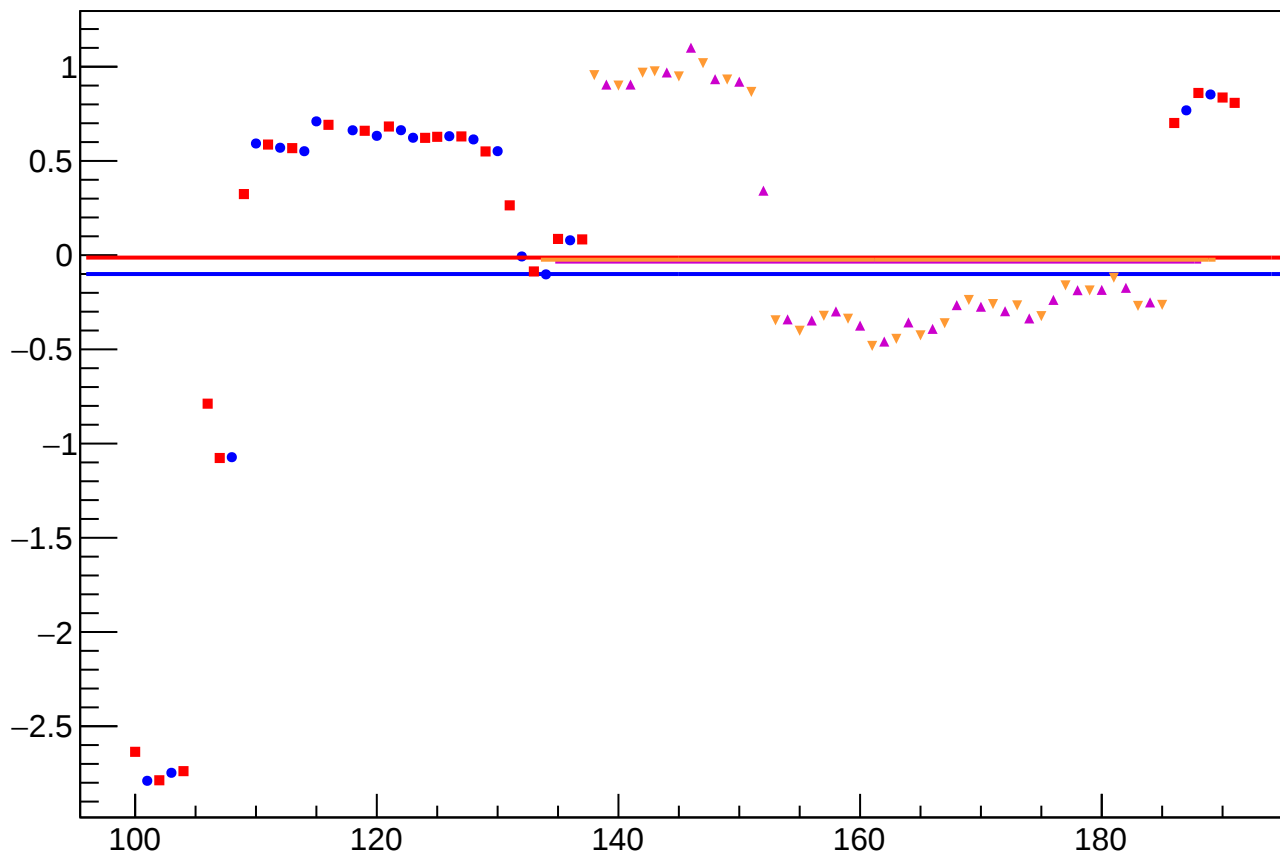
Right: 0.016+/-0.000 χ^2/NDF : 1345145.7/41

In: 0.008+/-0.000 χ^2/NDF : 3715701.6/41

Out: 0.009+/-0.000 χ^2/NDF : 4493312.2/47

All: 0.009+/-0.000 χ^2/NDF : 8213008.5/89

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.100 ± 0.000 $\chi^2/\text{NDF}: 734664243257.0/18$

Left Out: -0.024 ± 0.000 $\chi^2/\text{NDF}: 135451649275.0/24$

Right Out: -0.013 ± 0.000 $\chi^2/\text{NDF}: 821385882100.2/22$

Left In: -0.034 ± 0.000 $\chi^2/\text{NDF}: 113929060918.1/22$

Left: -0.029 ± 0.000 $\chi^2/\text{NDF}: 249405201350.6/47$

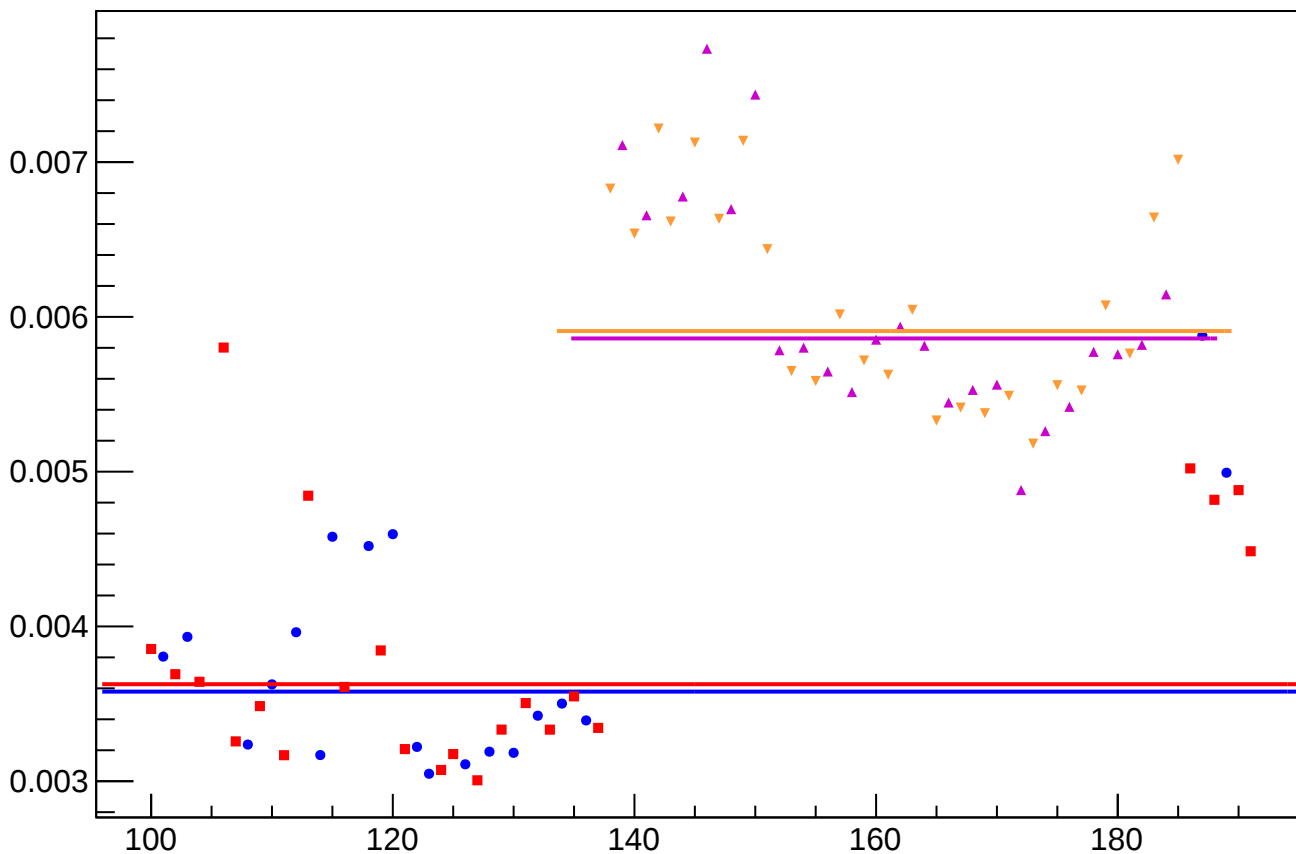
Right: -0.053 ± 0.000 $\chi^2/\text{NDF}: 1558257537593.5/4$

In: -0.070 ± 0.000 $\chi^2/\text{NDF}: 849673494717.6/41$

Out: -0.018 ± 0.000 $\chi^2/\text{NDF}: 956871946207.2/47$

All: -0.042 ± 0.000 $\chi^2/\text{NDF}: 1807955430367$

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 292140.0/18

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

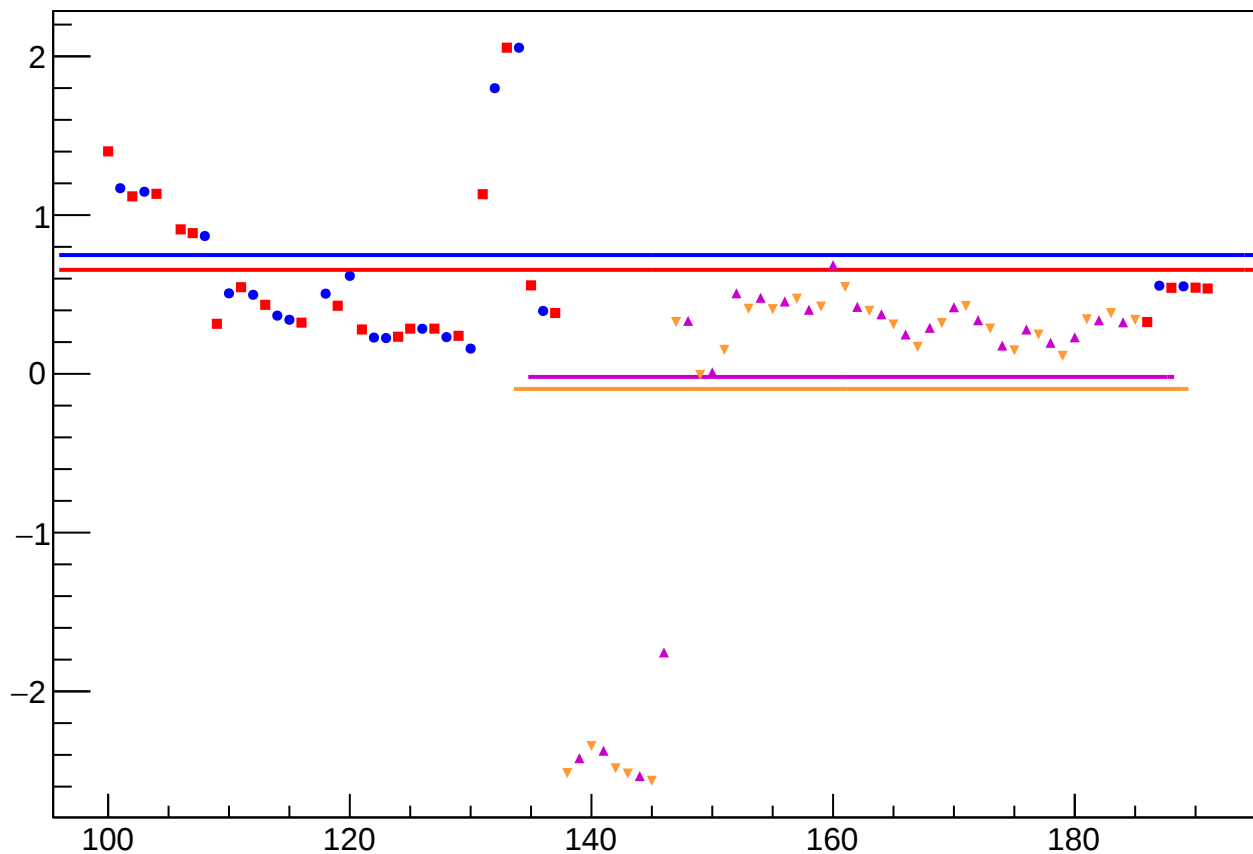
Right: 0.004+/-0.000 χ^2/NDF : 758855.5/41

In: 0.005+/-0.000 χ^2/NDF :3244909.7/41

Out: 0.005+/-0.000 χ^2/NDF :3635895.1/47

All: 0.005+/-0.000 χ^2/NDF : 6881783.9/89

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.748+/-0.000 χ^2/NDF : 34777959555.2/18

Left Out: -0.095+/-0.000 χ^2/NDF : 505606573631.9/24

Right Out: 0.655+/-0.000 χ^2/NDF : 43256805984.6/22

Left In: -0.019+/-0.000 χ^2/NDF : 417104863944.5/22

Left: -0.058+/-0.000 χ^2/NDF : 924153662333.7/47

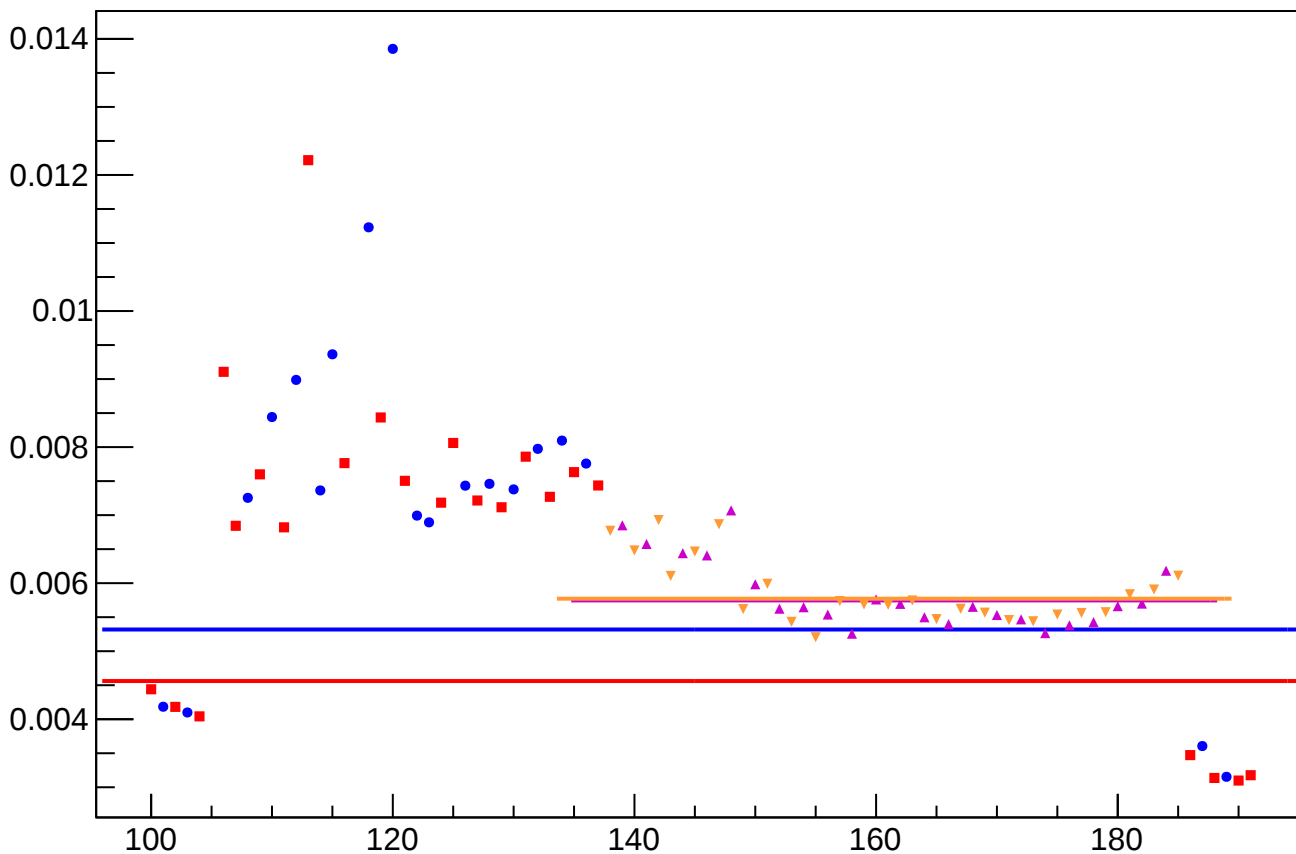
Right: 0.690+/-0.000 χ^2/NDF : 79103722785.6/41

In: 0.199+/-0.000 χ^2/NDF : 534624730224.1/41

Out: 0.198+/-0.000 χ^2/NDF : 662277400304.5/47

All: 0.199+/-0.000 χ^2/NDF : 1196902294190.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1925302.1/18

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

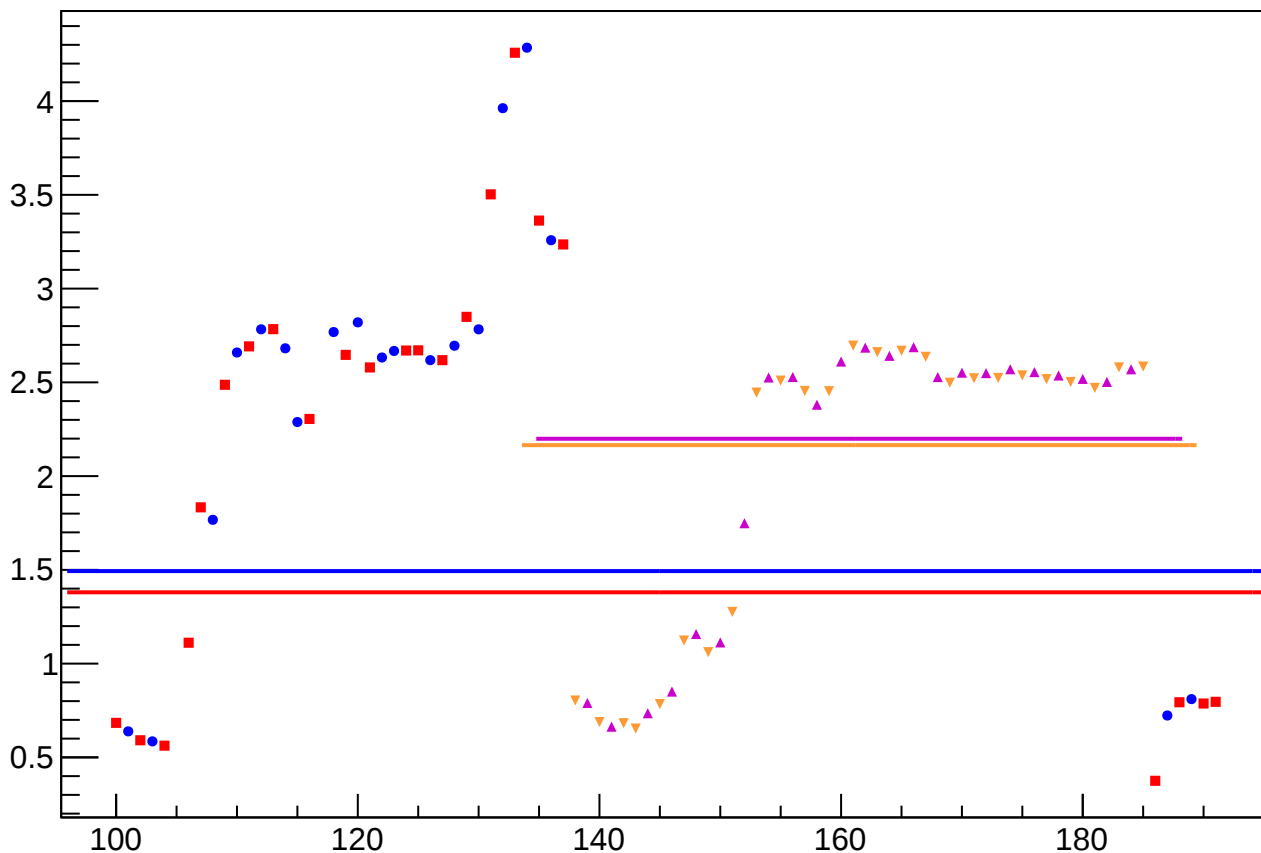
Right: 0.005+/-0.000 χ^2/NDF : 4559141.1/41

In: 0.006+/-0.000 χ^2/NDF :2180697.3/41

Out: 0.005+/-0.000 χ^2/NDF :3260856.3/47

All: 0.005+/-0.000 χ^2/NDF : 5522471.9/89

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.494+/-0.000 χ^2/NDF : 217098805726.1/18

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

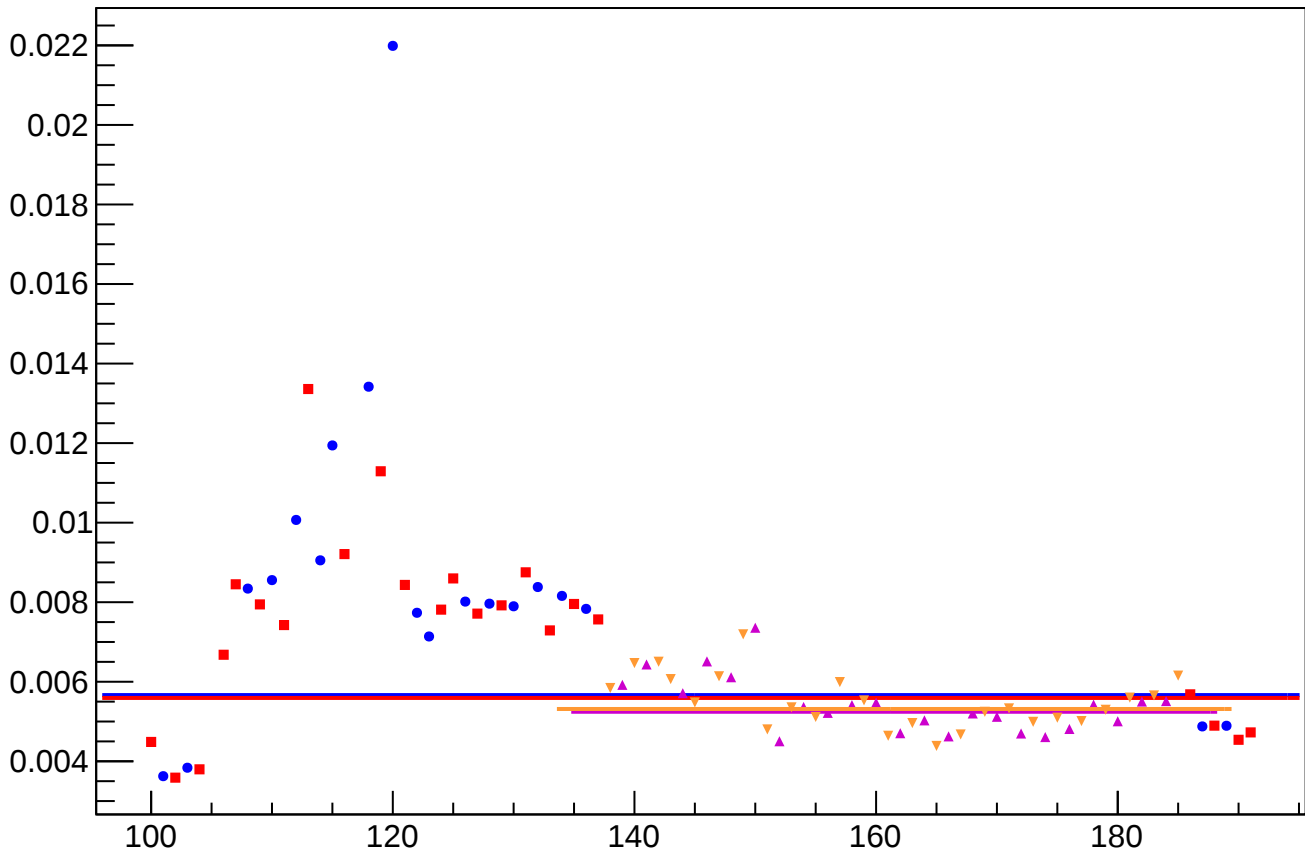
Right: 1.428+/-0.000 χ^2/NDF : 494968456905.2/41

In: 2.039+/-0.000 χ^2/NDF : 534897241979.6/41

Out: 1.947+/-0.000 χ^2/NDF : 670211256206.0/47

All: 1.991+/-0.000 χ^2/NDF : 1208436178344.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1946470.9/18

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

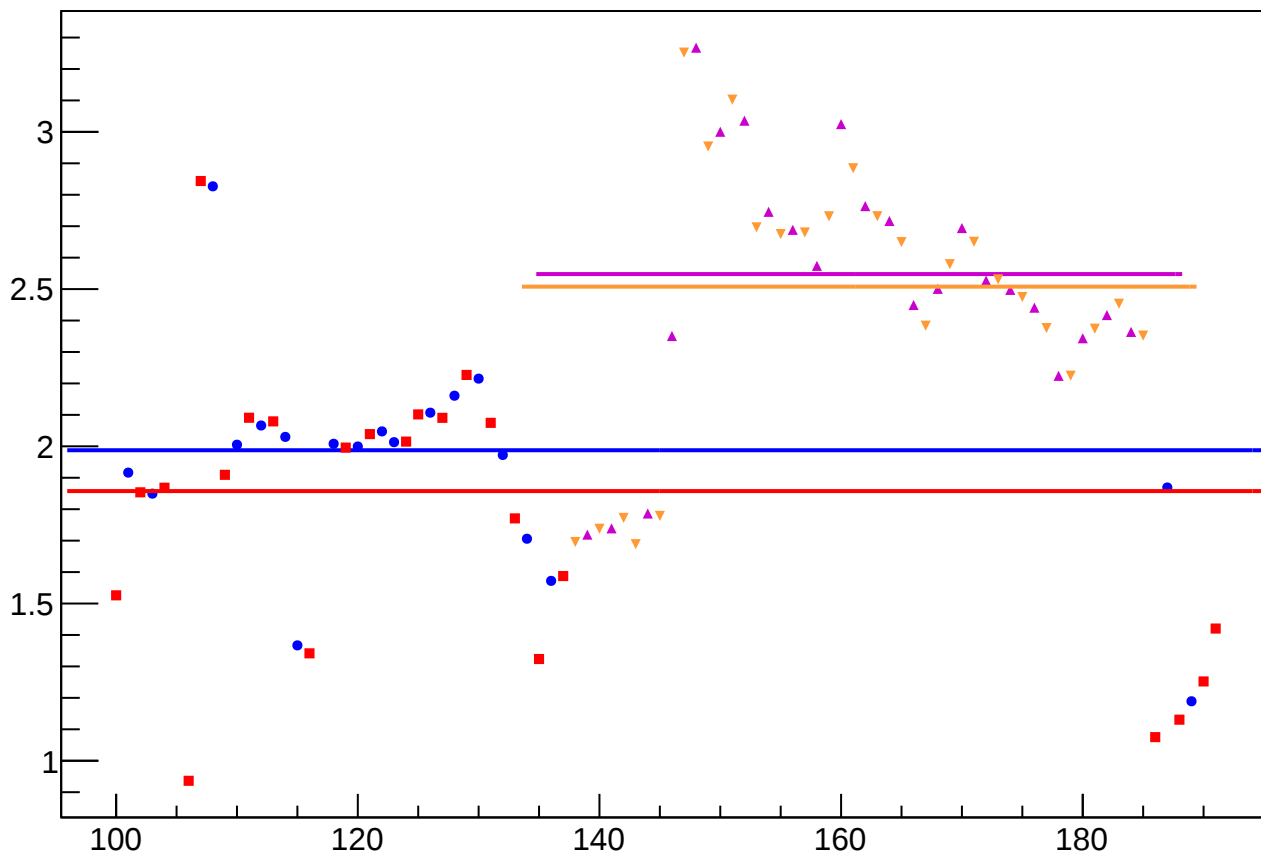
Right: 0.006+/-0.000 χ^2/NDF : 3745821.4/41

In: 0.005+/-0.000 χ^2/NDF : 2417976.1/41

Out: 0.005+/-0.000 χ^2/NDF : 2222351.3/47

All: 0.005+/-0.000 χ^2/NDF : 4642417.4/89

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.988+/-0.000 χ^2/NDF : 15111816637.9/18

Left Out: 2.508+/-0.000 χ^2/NDF : 52355332406.0/24

Right Out: 1.858+/-0.000 χ^2/NDF : 31486081410.7/22

Left In: 2.548+/-0.000 χ^2/NDF : 45350336058.7/22

Left: 2.527+/-0.000 χ^2/NDF : 97963993742.3/47

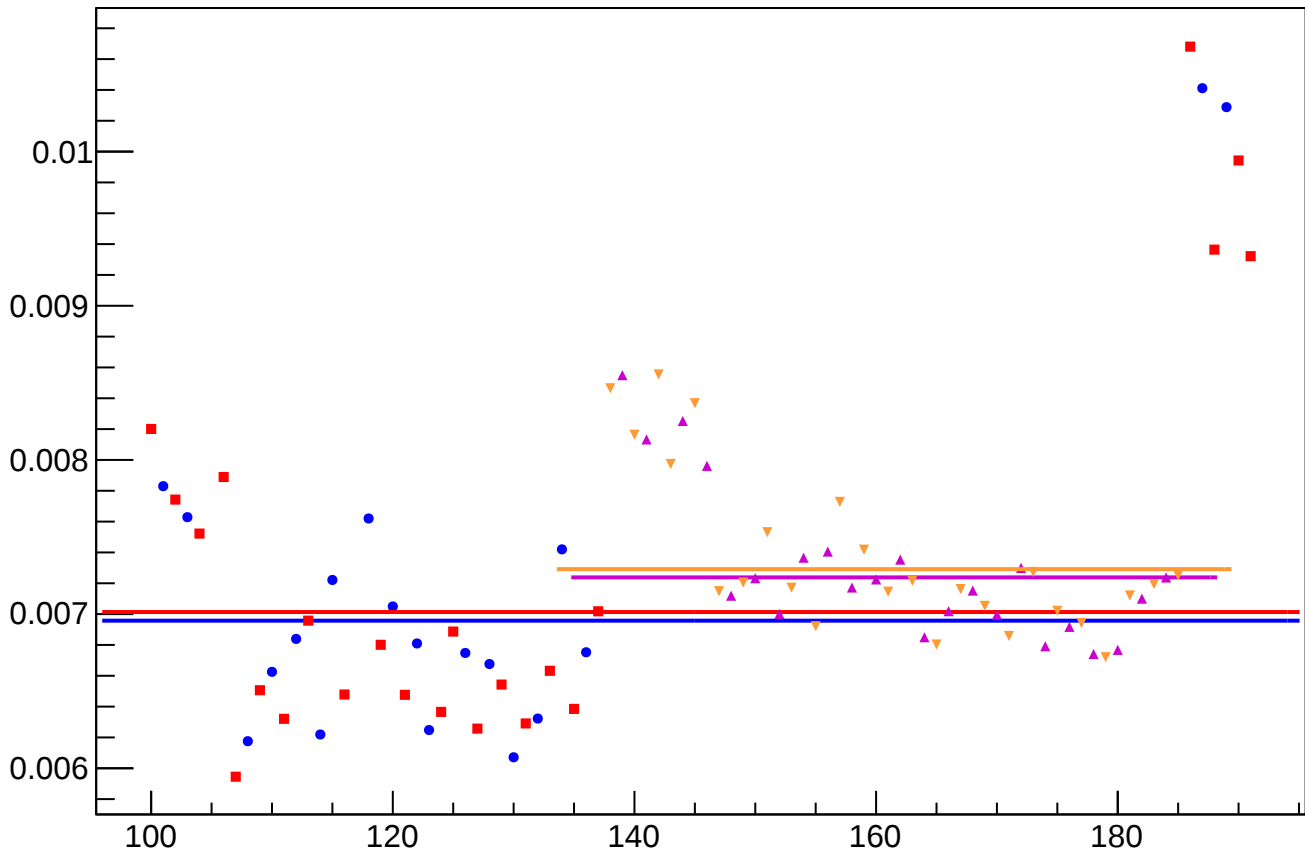
Right: 1.917+/-0.000 χ^2/NDF : 47906847718.0/41

In: 2.374+/-0.000 χ^2/NDF : 91233169103.0/41

Out: 2.285+/-0.000 χ^2/NDF : 131403082705.7/47

All: 2.328+/-0.000 χ^2/NDF : 224548449098.9

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 209369.3/18

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

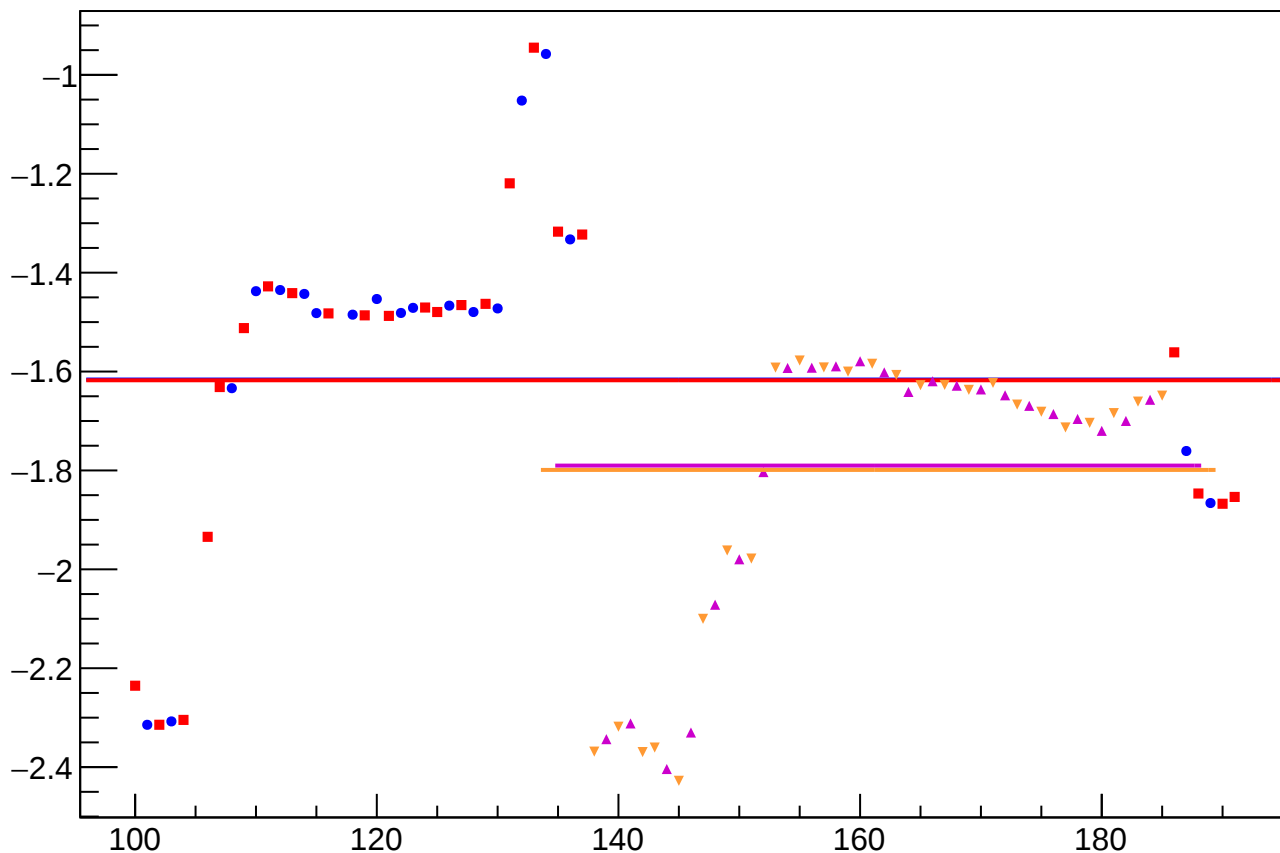
Right: 0.007+/-0.000 χ^2/NDF : 604295.1/41

In: 0.007+/-0.000 χ^2/NDF :350052.7/41

Out: 0.007+/-0.000 χ^2/NDF :552646.1/47

All: 0.007+/-0.000 χ^2/NDF : 903670.2/89

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.616+/-0.000 χ^2/NDF : 143269321137.5/18

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

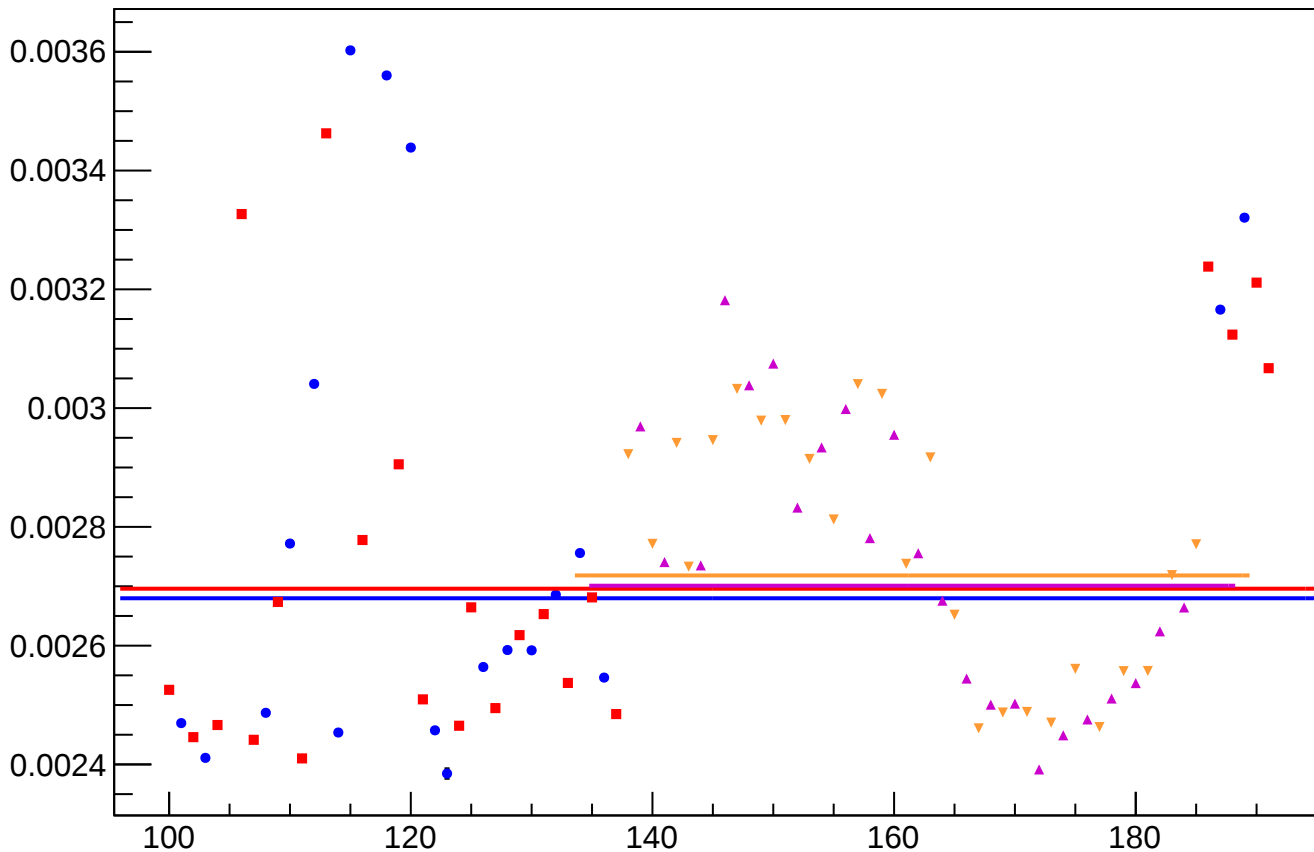
Right: -1.617+/-0.000 χ^2/NDF : 296546954668.1/41

In: -1.739+/-0.000 χ^2/NDF : 323246105789.8/41

Out: -1.739+/-0.000 χ^2/NDF : 364243360062.6/47

All: -1.739+/-0.000 χ^2/NDF : 687489821859.4

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 195667.8/18

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

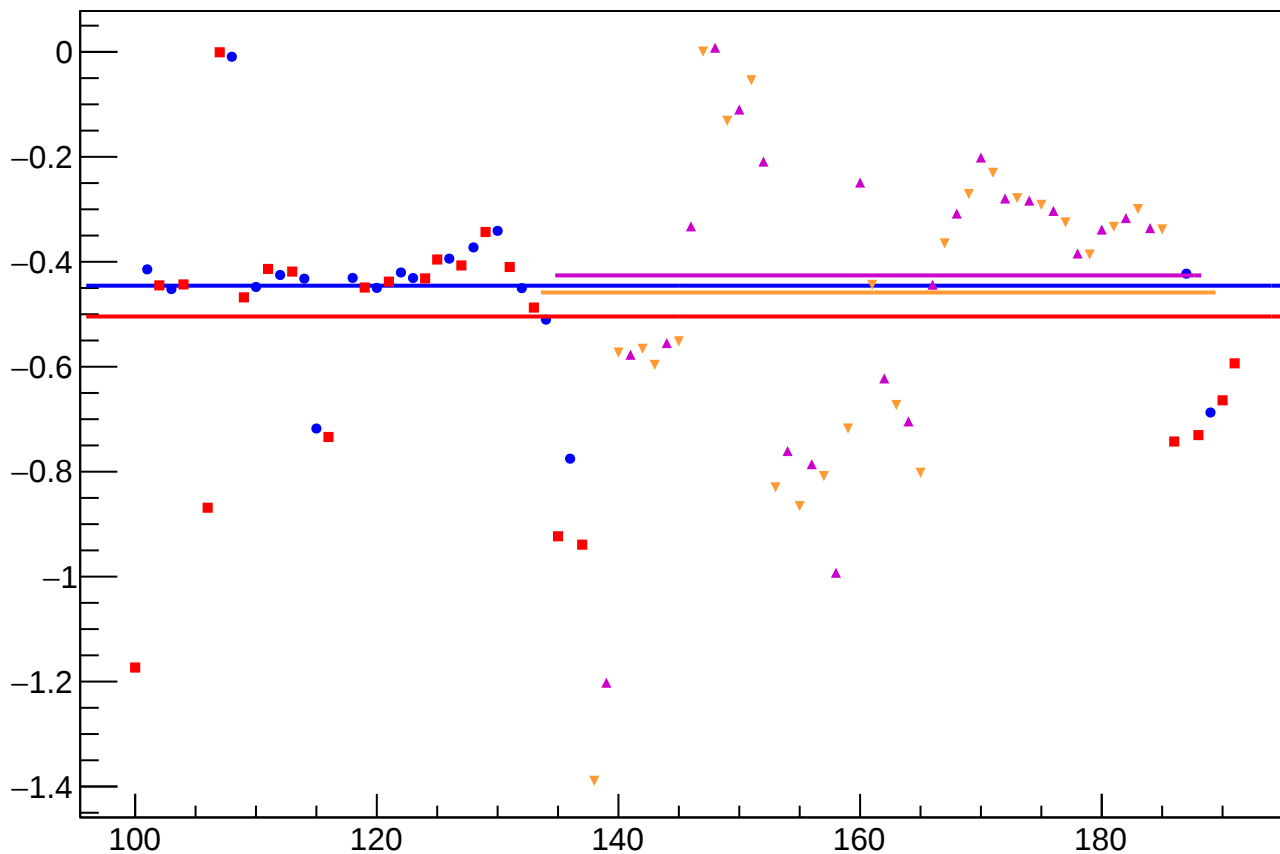
Right: 0.003+/-0.000 χ^2/NDF : 393336.2/41

In: 0.003+/-0.000 χ^2/NDF :416595.5/41

Out: 0.003+/-0.000 χ^2/NDF :397868.7/47

All: 0.003+/-0.000 χ^2/NDF : 815347.9/89

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.446+/-0.000 χ^2/NDF : 1554717475.4/18

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

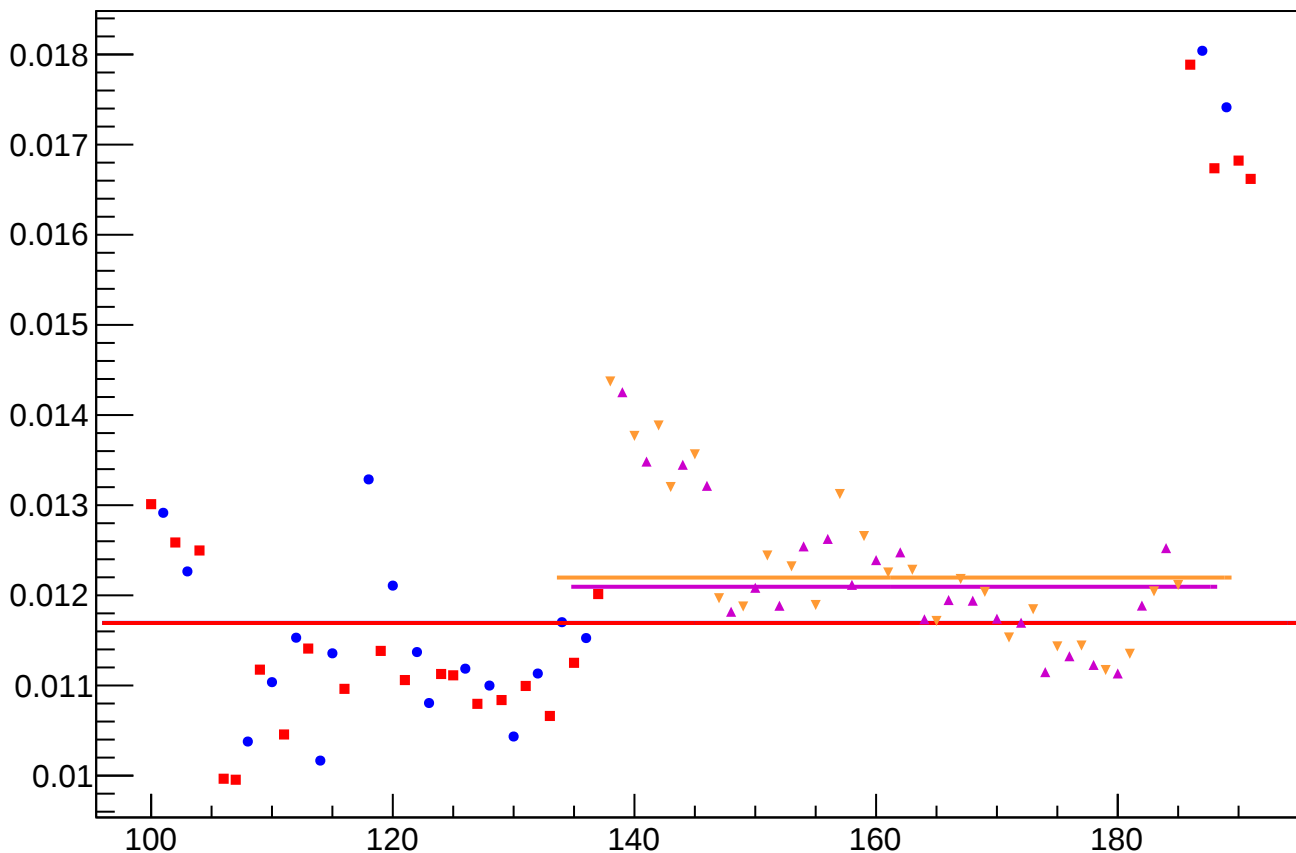
Right: -0.478+/-0.000 χ^2/NDF : 4632078509.7/41

In: -0.432+/-0.000 χ^2/NDF : 9992422752.1/41

Out: -0.474+/-0.000 χ^2/NDF : 12982441736.3/47

All: -0.454+/-0.000 χ^2/NDF : 23128772637.4/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 205301.3/18

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

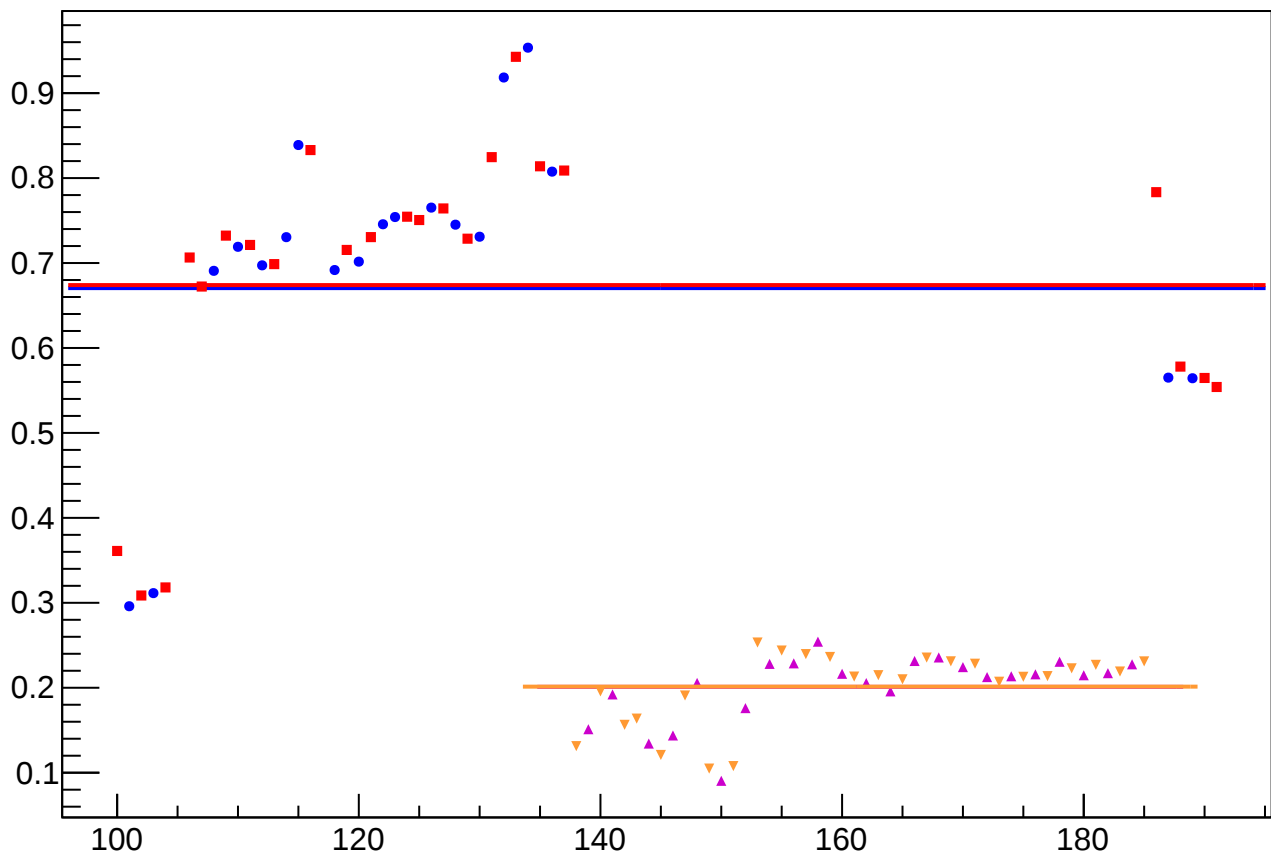
Right: 0.012+/-0.000 χ^2/NDF : 652367.9/41

In: 0.012+/-0.000 χ^2/NDF :343915.3/41

Out: 0.012+/-0.000 χ^2/NDF :609682.6/47

All: 0.012+/-0.000 χ^2/NDF : 954066.8/89

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.670 $\pm$ 0.000 χ^2 /NDF: 39368829214.4/18

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

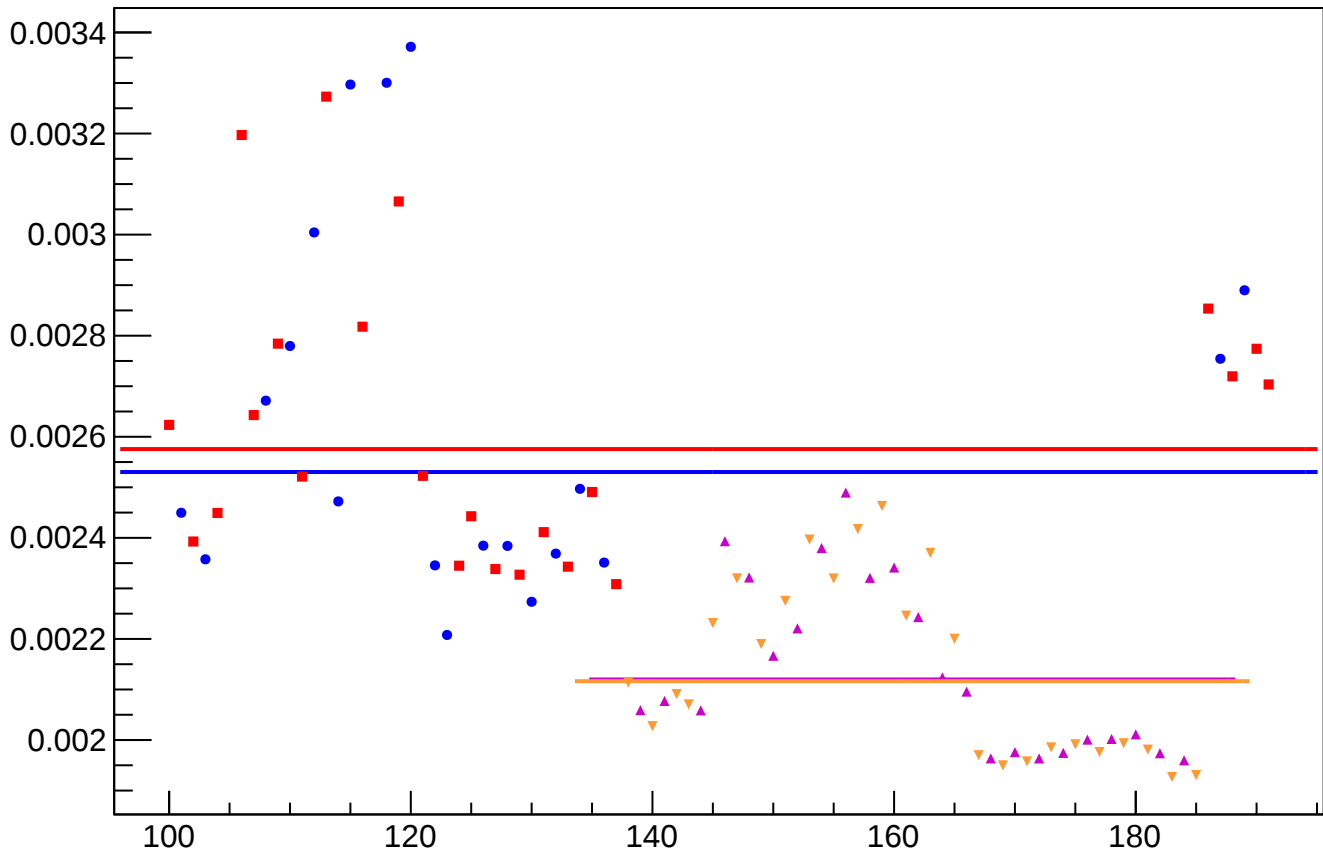
Right: 0.672 $\pm$ 0.000 χ^2 /NDF: 77537934453.1/41

In: 0.305 $\pm$ 0.000 χ^2 /NDF: 230944490550.3/41

Out: 0.315 $\pm$ 0.000 χ^2 /NDF: 262589467190.5/47

All: 0.310 $\pm$ 0.000 χ^2 /NDF: 493784456383.6

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 191715.7/18

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

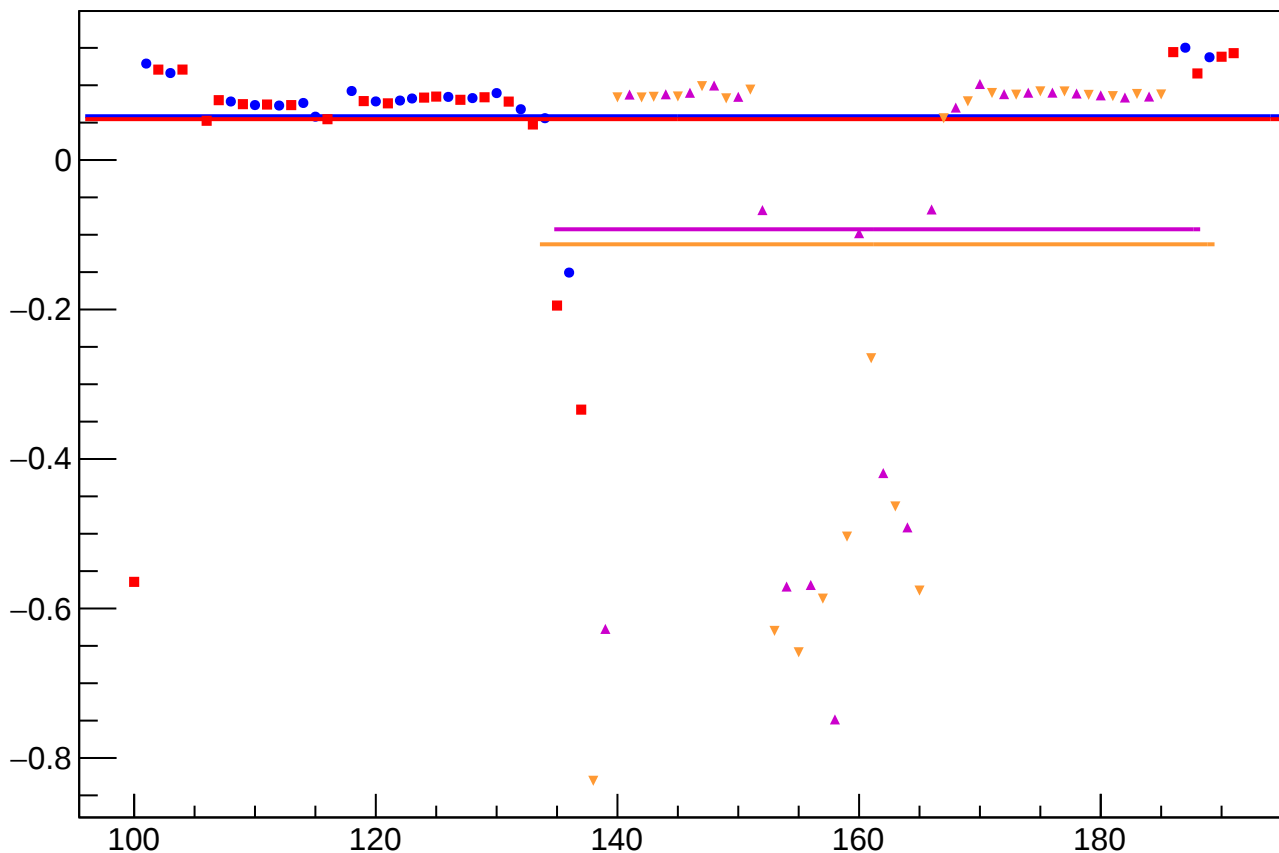
Right: 0.003+/-0.000 χ^2/NDF : 345725.9/41

In: 0.002+/-0.000 χ^2/NDF :665253.7/41

Out: 0.002+/-0.000 χ^2/NDF :786386.8/47

All: 0.002+/-0.000 χ^2/NDF : 1452956.3/89

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.059 $\pm$ 0.000

χ^2 /NDF: 439433407.2/18

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: 0.056 $\pm$ 0.000

χ^2 /NDF: 1307932326.1/41

Right Out: 0.055 $\pm$ 0.000

χ^2 /NDF: 867913953.6/22

In: -0.042 $\pm$ 0.000

χ^2 /NDF: 12551265767.4/41

Out: -0.051 $\pm$ 0.000

χ^2 /NDF: 16035876263.0/47

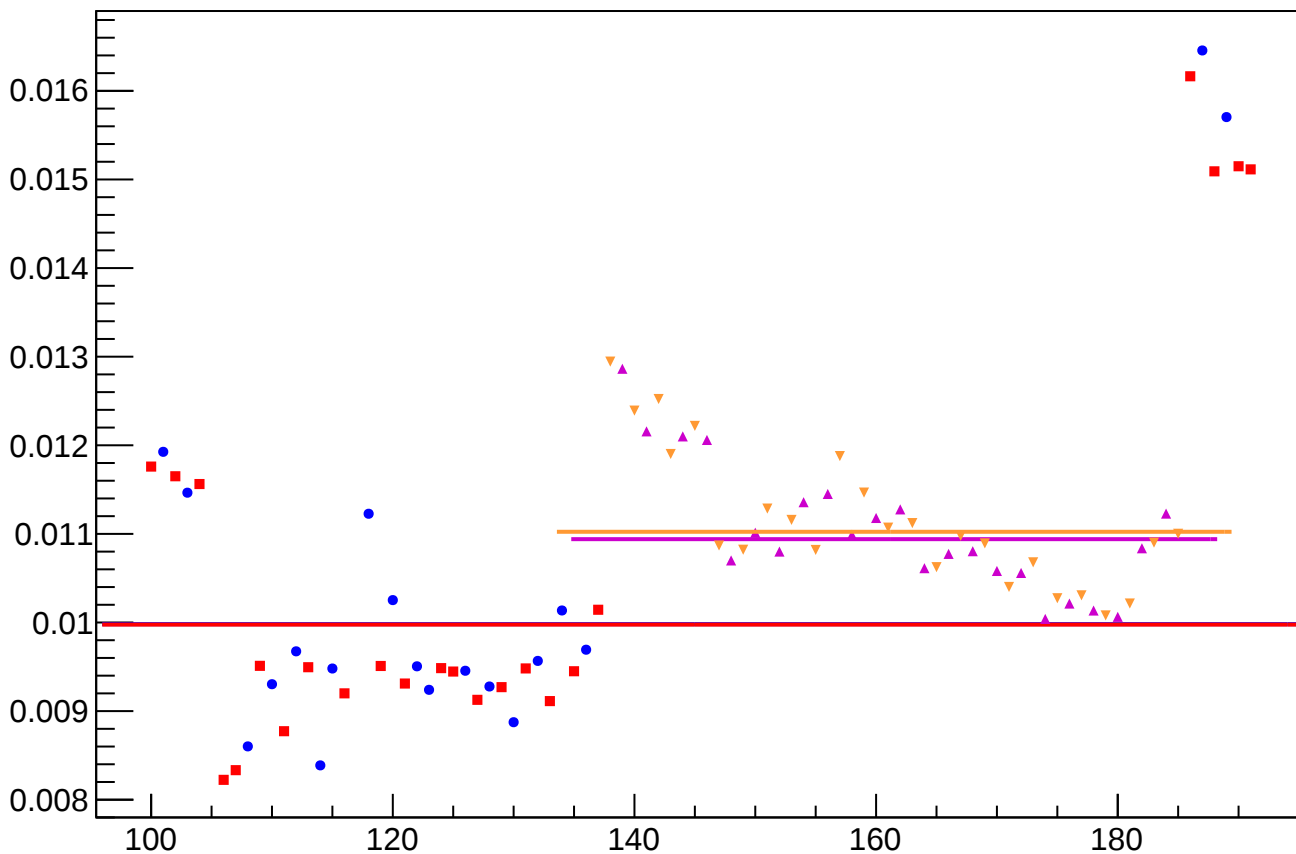
Left In: -0.093 $\pm$ 0.000

χ^2 /NDF: 11051944893.7/22

All: -0.047 $\pm$ 0.000

χ^2 /NDF: 28595451724.1/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 289090.6/18

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.010+/-0.000 χ^2/NDF : 596963.6/22

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

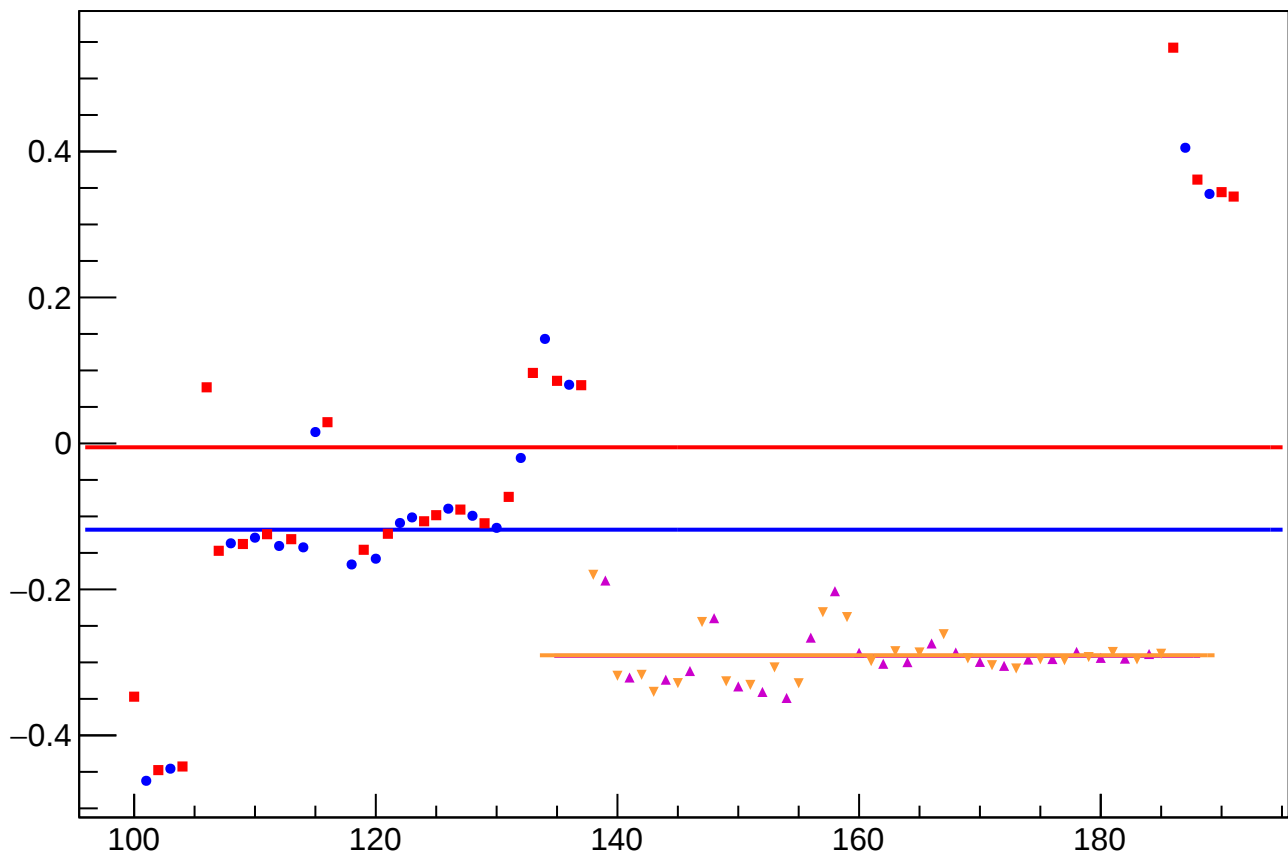
Right: 0.010+/-0.000 χ^2/NDF : 886056.0/41

In: 0.011+/-0.000 χ^2/NDF :503308.7/41

Out: 0.011+/-0.000 χ^2/NDF :855956.4/47

All: 0.011+/-0.000 χ^2/NDF : 1359325.2/89

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.118 ± 0.000 $\chi^2/\text{NDF}: 20559613442.8/18$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: -0.005 ± 0.000 $\chi^2/\text{NDF}: 37085409817.8/22$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

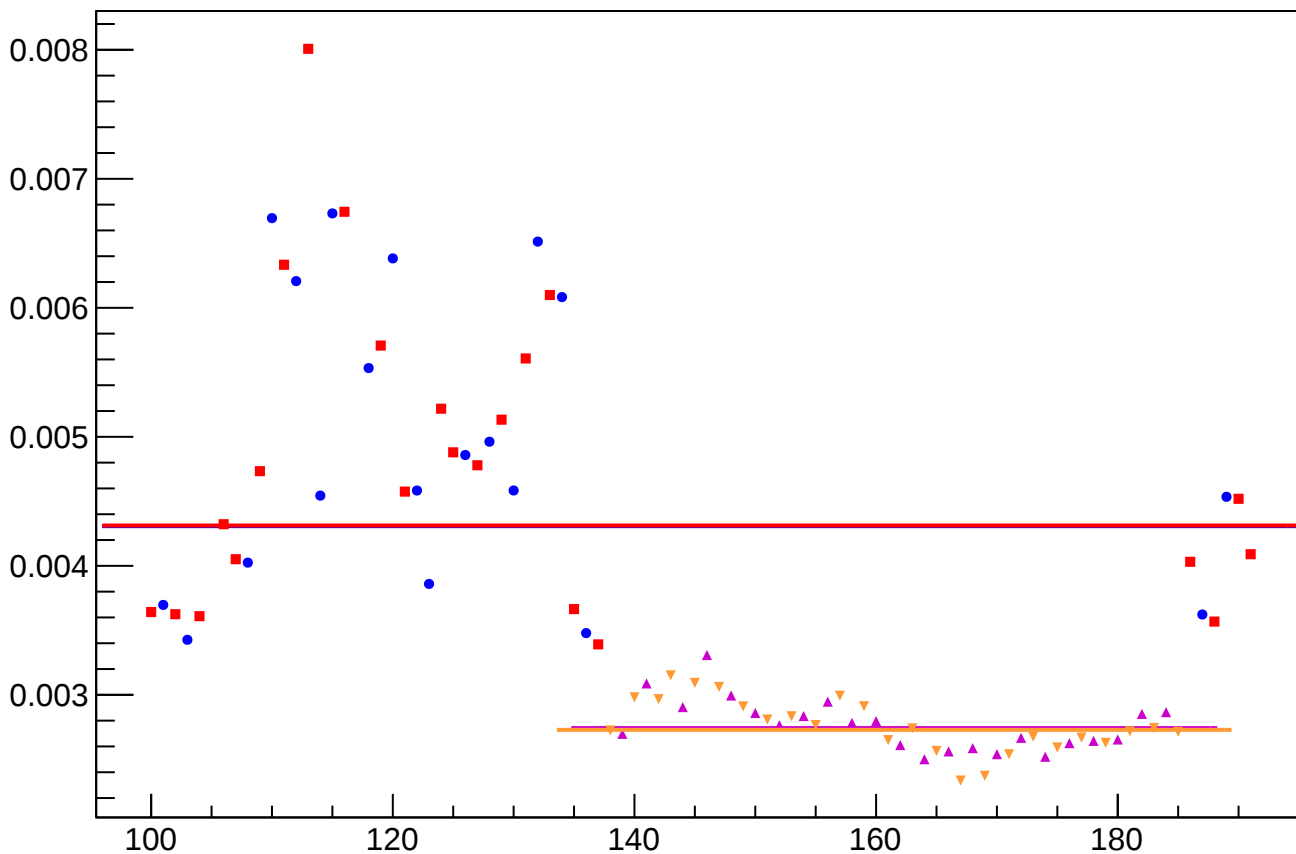
Right: -0.056 ± 0.000 $\chi^2/\text{NDF}: 60068017159.8/41$

In: -0.268 ± 0.000 $\chi^2/\text{NDF}: 32560029550.2/41$

Out: -0.247 ± 0.000 $\chi^2/\text{NDF}: 69261949474.6/47$

All: -0.257 ± 0.000 $\chi^2/\text{NDF}: 102407759581.0$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 629846.4/18

Left Out: 0.003 $\pm$ 0.000 χ^2/NDF :206527.1/24

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 737806.0/22

Left In: 0.003 $\pm$ 0.000 χ^2/NDF :147778.8/22

Left: 0.003 $\pm$ 0.000 χ^2/NDF : 354733.7/47

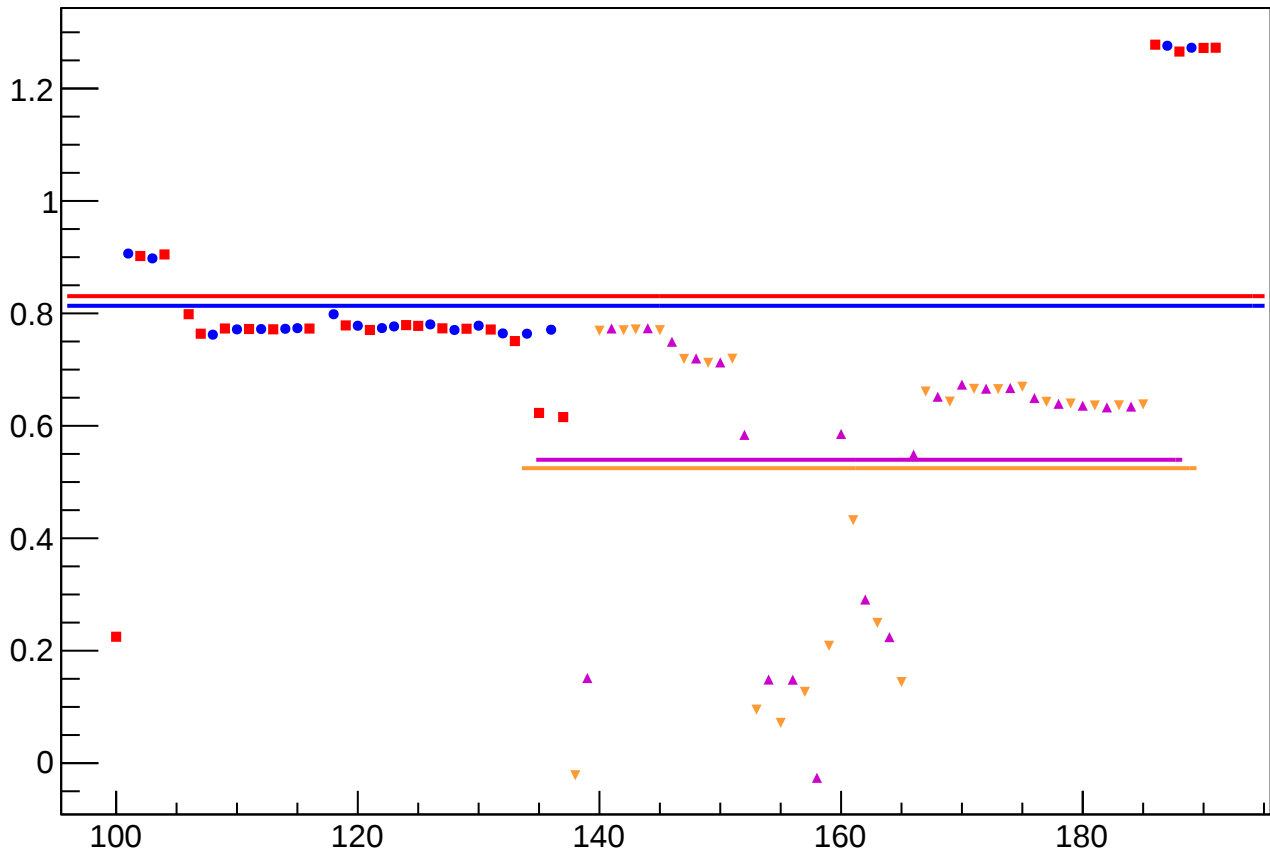
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 1367661.5/41

In: 0.003 $\pm$ 0.000 χ^2/NDF :2233305.8/41

Out: 0.003 $\pm$ 0.000 χ^2/NDF :2754756.3/47

All: 0.003 $\pm$ 0.000 χ^2/NDF : 4988830.6/89

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.813+/-0.000 χ^2/NDF : 694213424.3/18

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

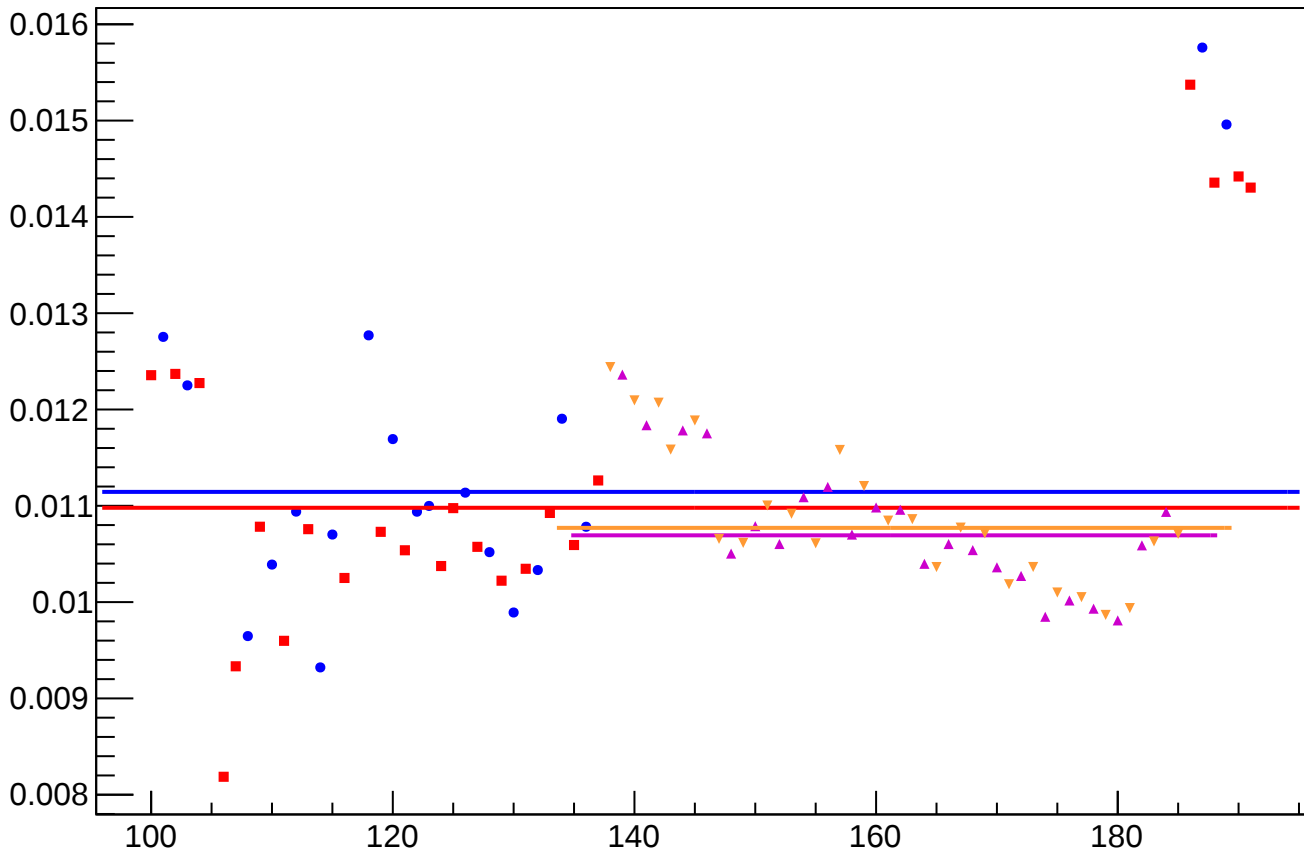
Right: 0.823+/-0.000 χ^2/NDF : 2968547452.0/41

In: 0.616+/-0.000 χ^2/NDF : 11599012968.0/41

Out: 0.622+/-0.000 χ^2/NDF : 16429663637.4/47

All: 0.619+/-0.000 χ^2/NDF : 28032729071.6/8

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 186669.6/18

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

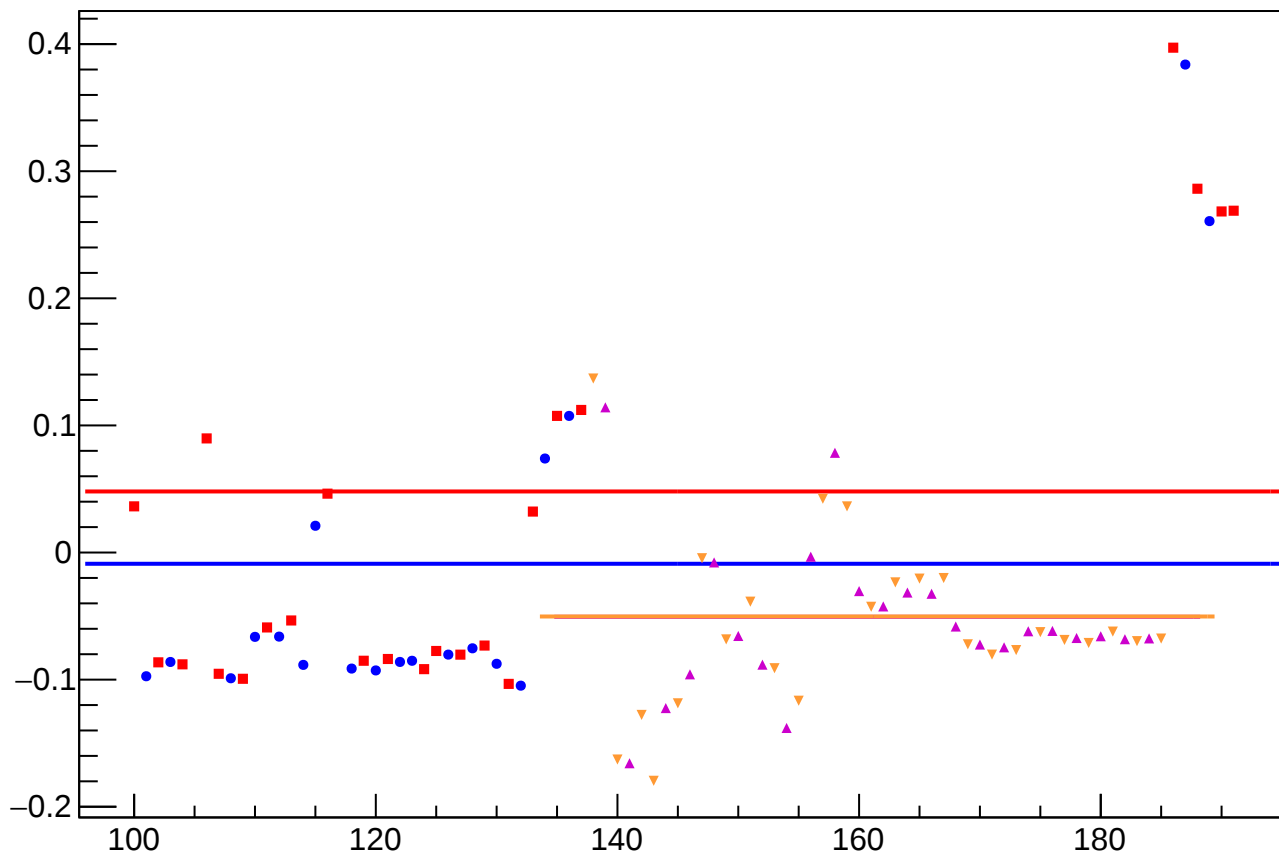
Right: 0.011+/-0.000 χ^2/NDF : 558305.9/41

In: 0.011+/-0.000 χ^2/NDF :322465.5/41

Out: 0.011+/-0.000 χ^2/NDF :505775.5/47

All: 0.011+/-0.000 χ^2/NDF : 828313.3/89

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.009+/-0.000

χ^2/NDF : 4578254303.3/18

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.022+/-0.000

χ^2/NDF : 14924073042.7/41

Right Out: 0.048+/-0.000

χ^2/NDF : 9780609485.2/22

In: -0.044+/-0.000

χ^2/NDF : 11183462090.5/41

Out: -0.034+/-0.000

χ^2/NDF : 20126014466.1/47

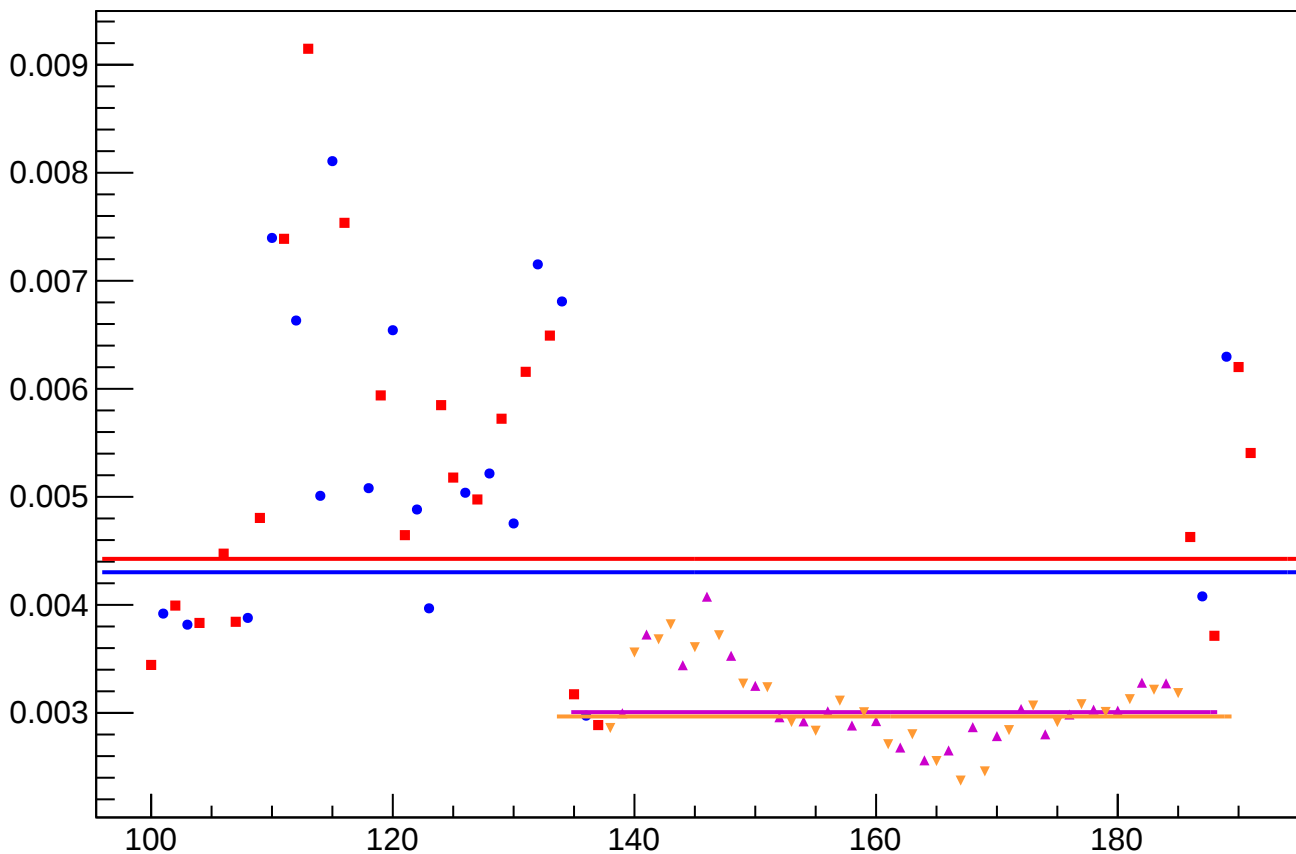
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: -0.039+/-0.000

χ^2/NDF : 31418732434.6/100

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 972009.1/18

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

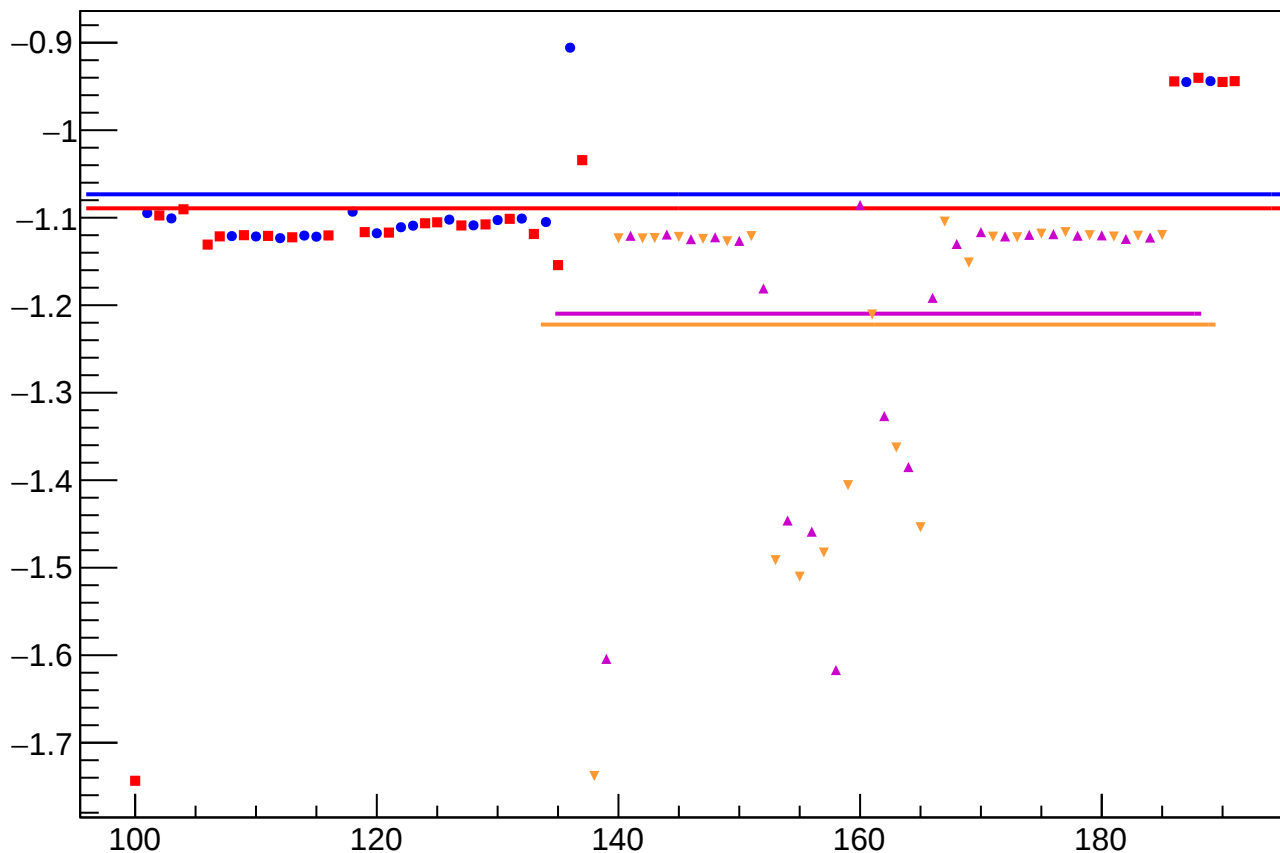
Right: 0.004+/-0.000 χ^2/NDF : 2074089.9/41

In: 0.003+/-0.000 χ^2/NDF : 2218744.6/41

Out: 0.003+/-0.000 χ^2/NDF : 2948264.7/47

All: 0.003+/-0.000 χ^2/NDF : 5167009.3/89

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.073+/-0.000 χ^2/NDF : 263774295.7/18

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.089+/-0.000 χ^2/NDF : 511659319.4/22

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

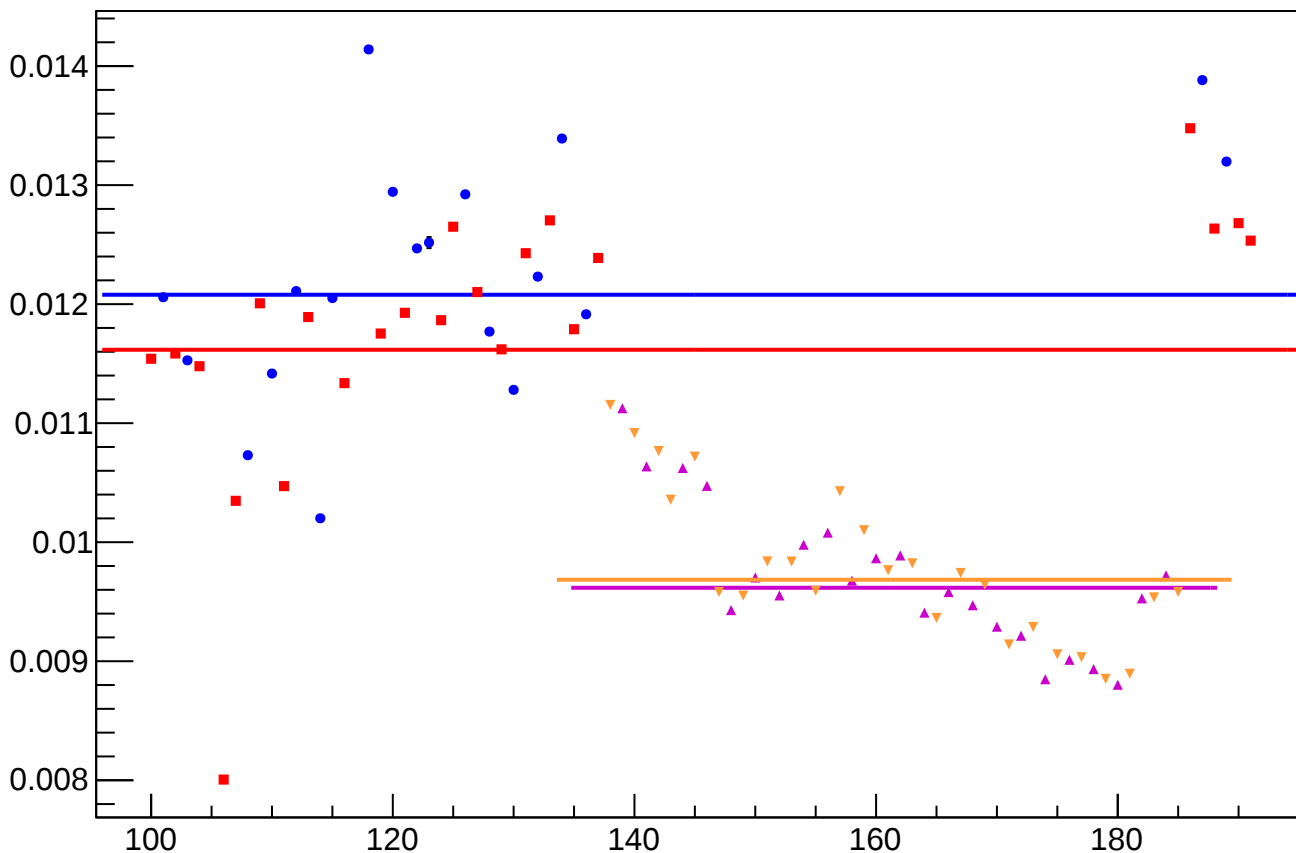
Right: -1.082+/-0.000 χ^2/NDF : 782476518.2/41

In: -1.181+/-0.000 χ^2/NDF : 5473181072.2/41

Out: -1.189+/-0.000 χ^2/NDF : 6634207249.0/47

All: -1.185+/-0.000 χ^2/NDF : 12114216968.8/91

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 71014.4/18

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 191520.7/22

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

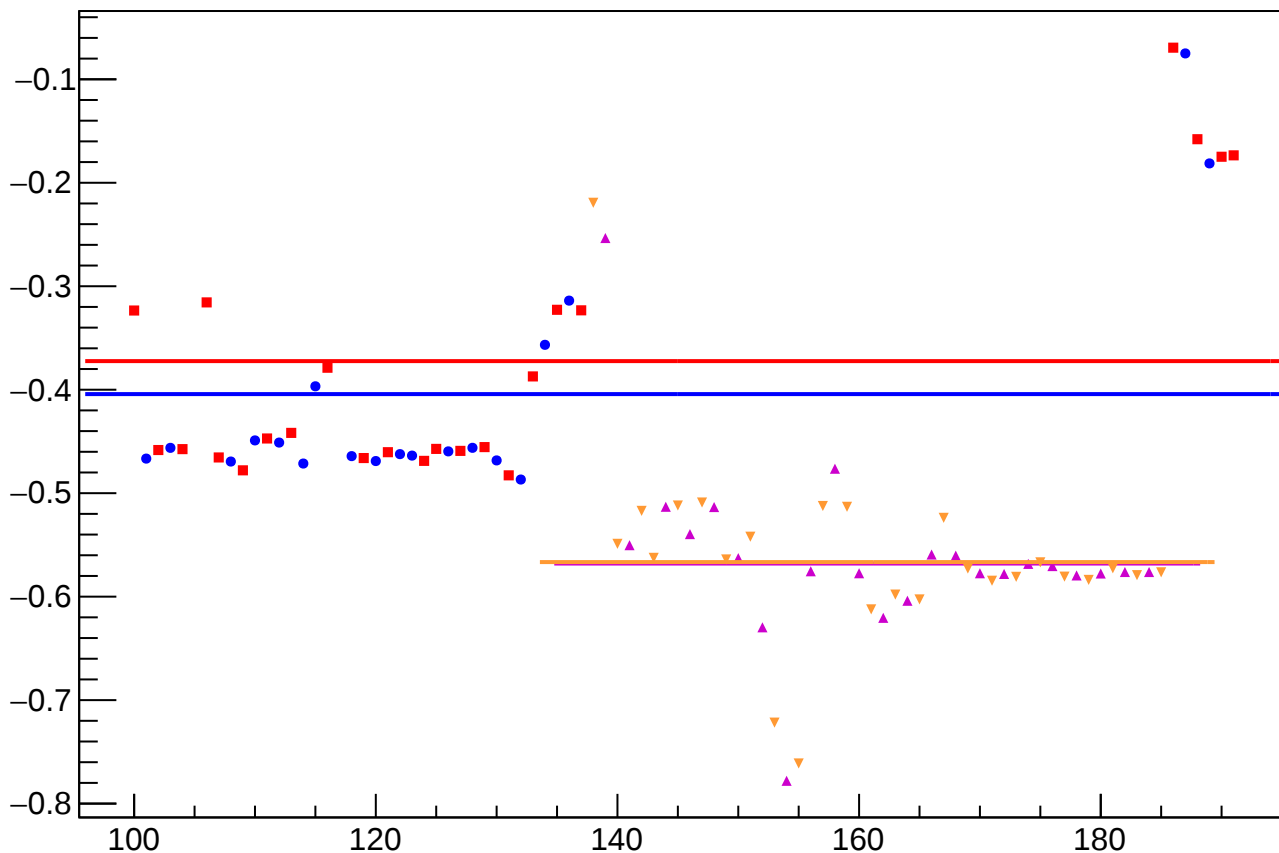
Right: 0.012+/-0.000 χ^2/NDF : 274252.4/41

In: 0.010+/-0.000 χ^2/NDF :651398.7/41

Out: 0.010+/-0.000 χ^2/NDF :683118.1/47

All: 0.010+/-0.000 χ^2/NDF : 1334880.8/89

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.404 $\pm$ 0.000 χ^2 /NDF: 3641344613.3/18

Left Out: -0.567 $\pm$ 0.000 χ^2 /NDF:13368458519.3/24

Right Out: -0.372 $\pm$ 0.000 χ^2 /NDF: 7444350993.2/22

Left In: -0.568 $\pm$ 0.000 χ^2 /NDF:10458990019.9/22

Left: -0.567 $\pm$ 0.000 χ^2 /NDF: 23829000396.4/47

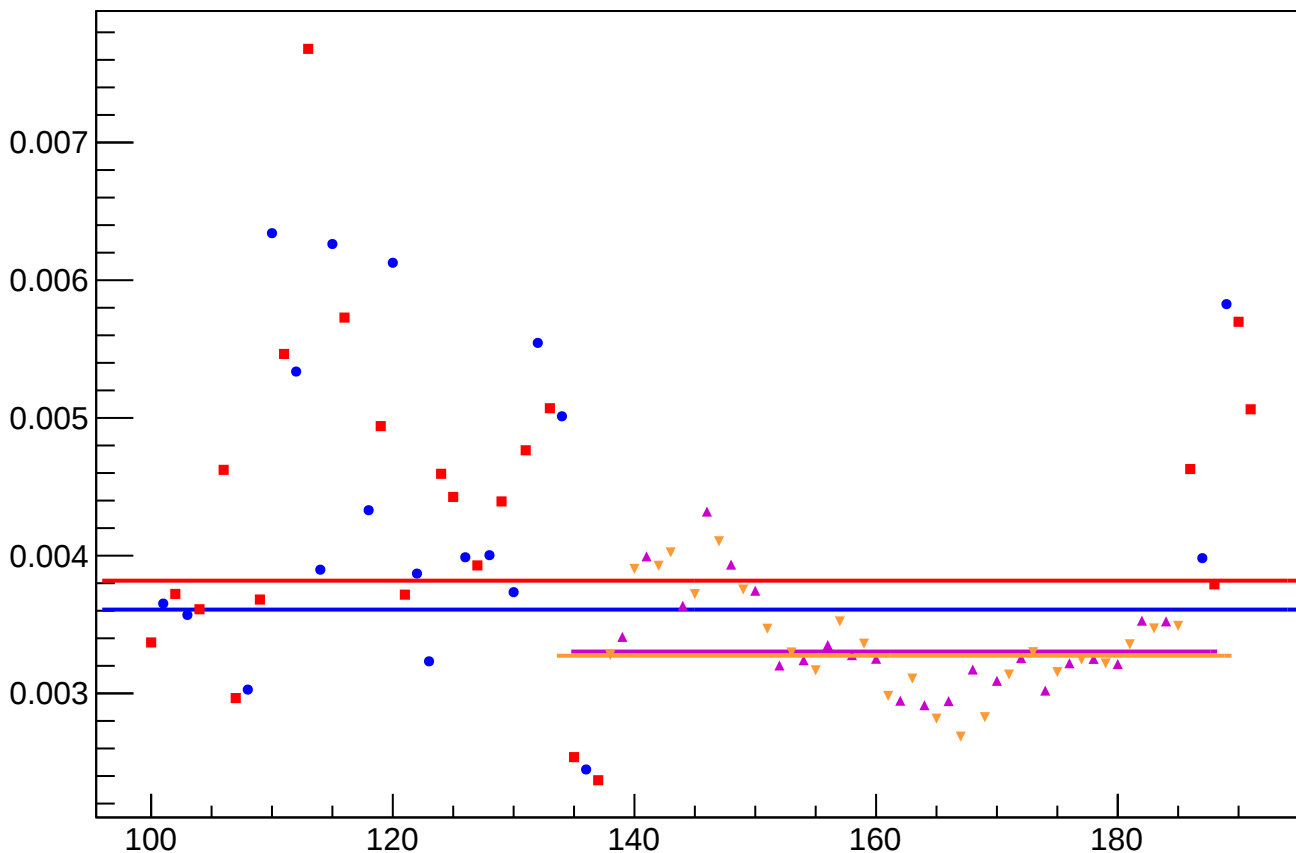
Right: -0.387 $\pm$ 0.000 χ^2 /NDF: 11331022021.6/41

In: -0.529 $\pm$ 0.000 χ^2 /NDF:23438730405.4/41

Out: -0.519 $\pm$ 0.000 χ^2 /NDF:35481251549.2/47

All: -0.524 $\pm$ 0.000 χ^2 /NDF: 59021145607.5/47

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 970225.2/18

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

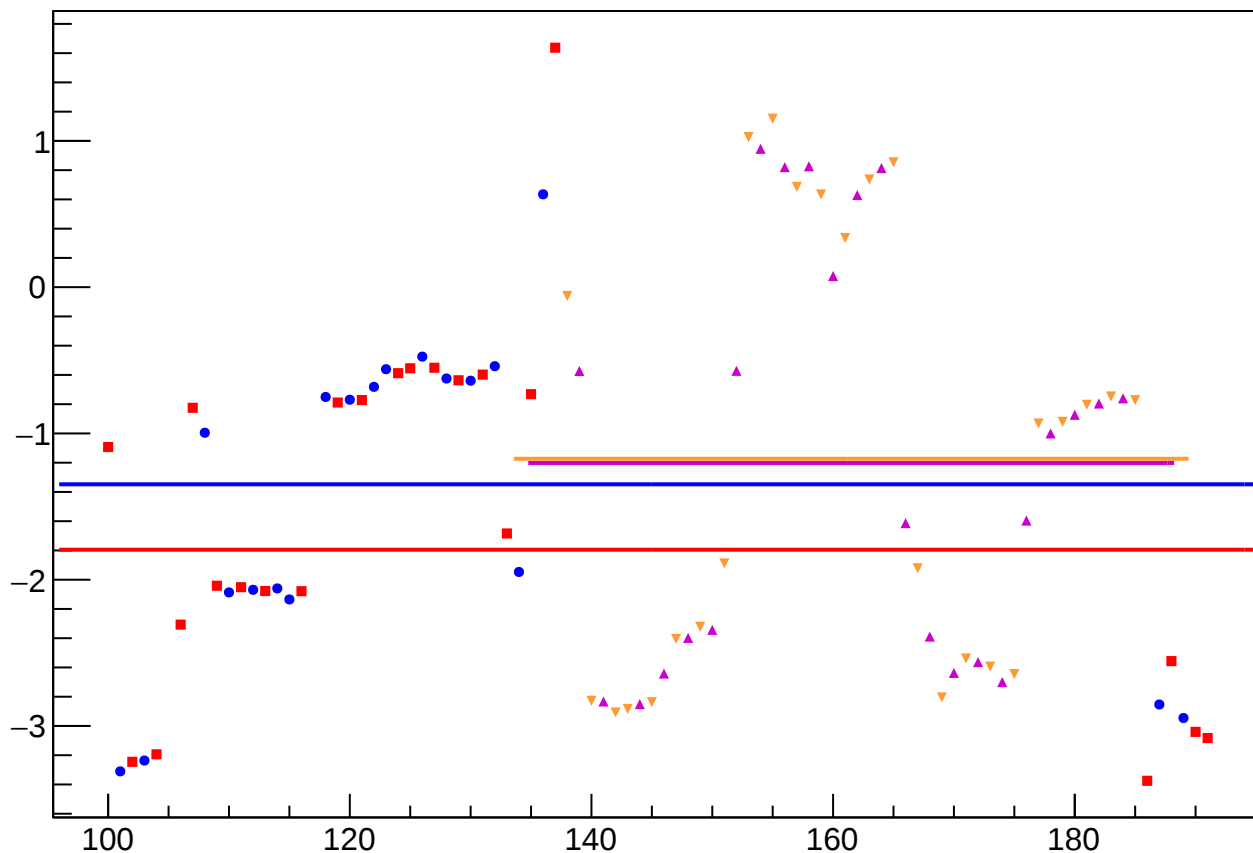
Right: 0.004+/-0.000 χ^2/NDF : 2005115.1/41

In: 0.003+/-0.000 χ^2/NDF : 1320912.1/41

Out: 0.003+/-0.000 χ^2/NDF : 1639402.1/47

All: 0.003+/-0.000 χ^2/NDF : 2962165.6/89

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.348+/-0.000 χ^2/NDF : 2289584044.9/18

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.795+/-0.000 χ^2/NDF : 2244754669.6/22

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

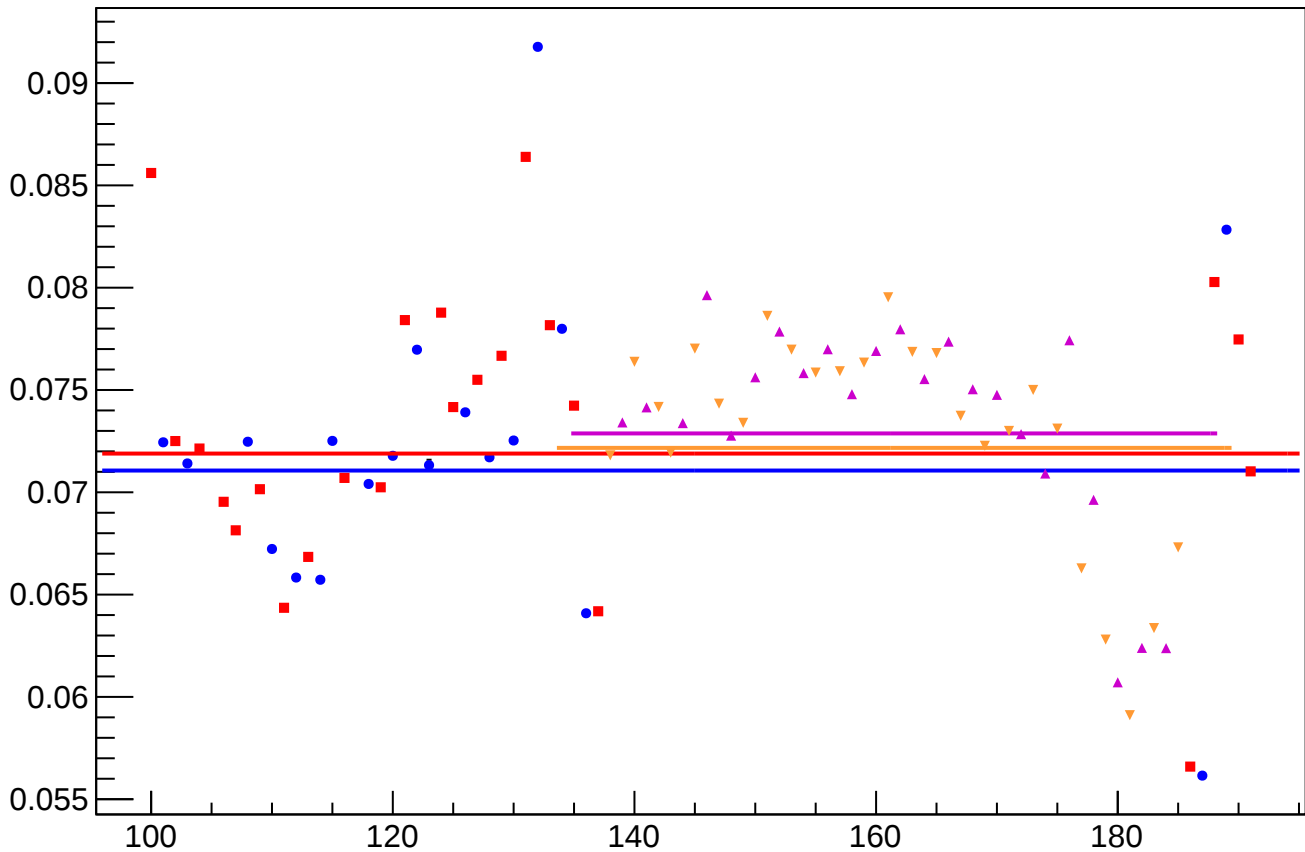
Right: -1.591+/-0.000 χ^2/NDF : 4688431908.3/41

In: -1.247+/-0.000 χ^2/NDF : 7917223364.2/41

Out: -1.377+/-0.000 χ^2/NDF : 9566707074.6/47

All: -1.316+/-0.000 χ^2/NDF : 17525460258.7/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071 $\pm$ 0.000 χ^2 /NDF: 115776.6/18

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

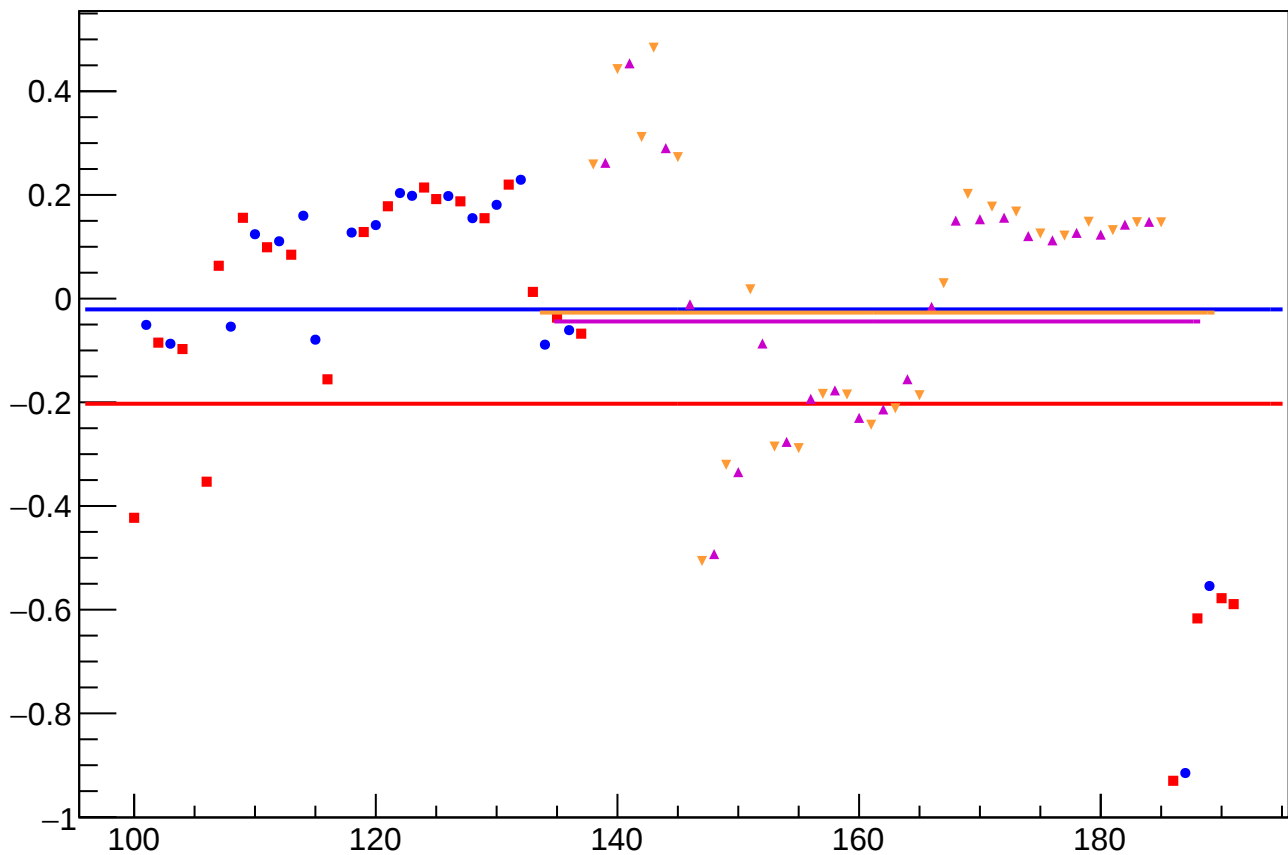
Right: 0.072 $\pm$ 0.000 χ^2 /NDF: 262353.8/41

In: 0.072 $\pm$ 0.000 χ^2 /NDF:305726.0/41

Out: 0.072 $\pm$ 0.000 χ^2 /NDF:367957.5/47

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 673965.6/89

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.021+/-0.000 χ^2/NDF : 2225906586.6/18

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.203+/-0.000 χ^2/NDF : 7130015744.6/22

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

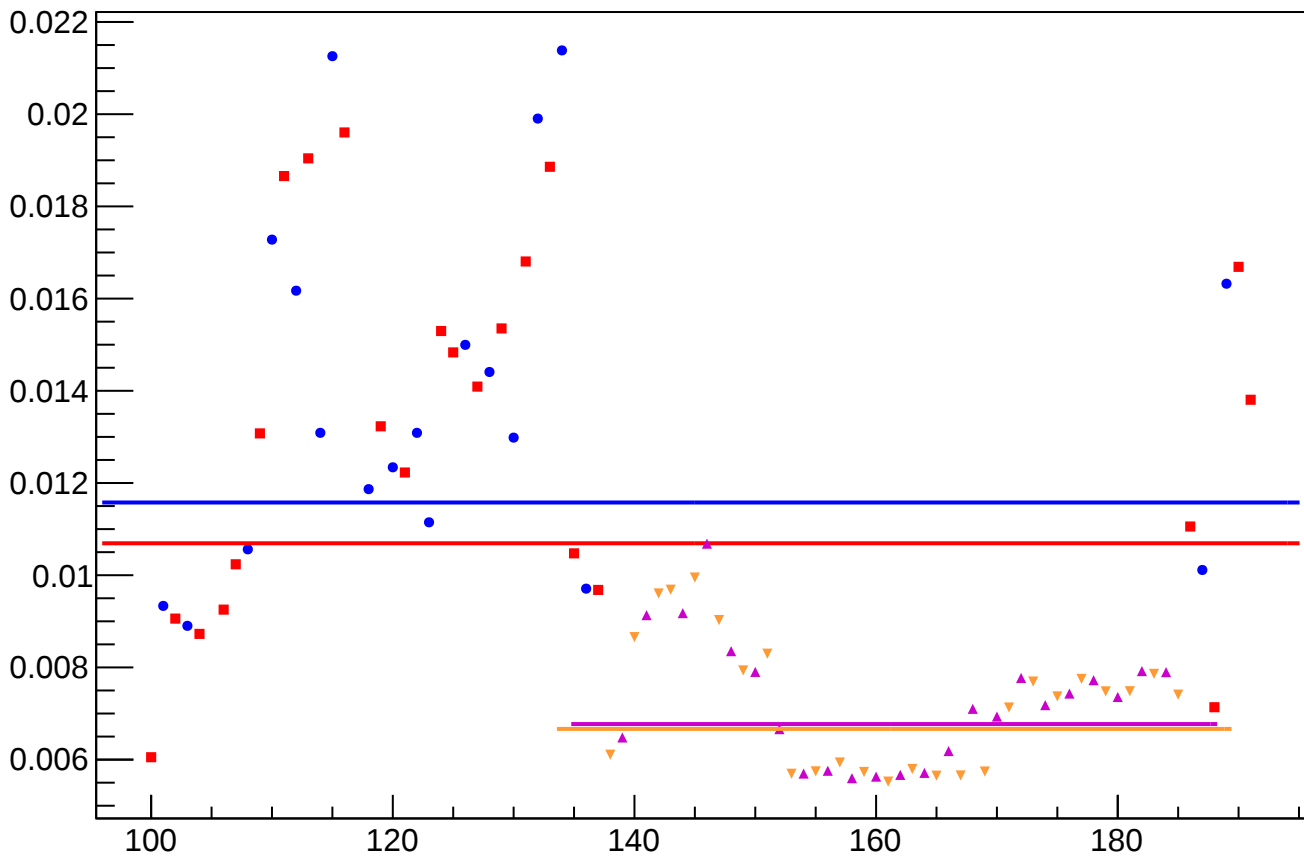
Right: -0.126+/-0.000 χ^2/NDF : 10248192235.8/41

In: -0.041+/-0.000 χ^2/NDF : 17966765276.1/41

Out: -0.052+/-0.000 χ^2/NDF : 29188323315.5/47

All: -0.047+/-0.000 χ^2/NDF : 47179868479.8/94

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 756290.5/18

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1143768.6/24

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 1506726.8/22

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:934050.3/22

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 2081836.1/47

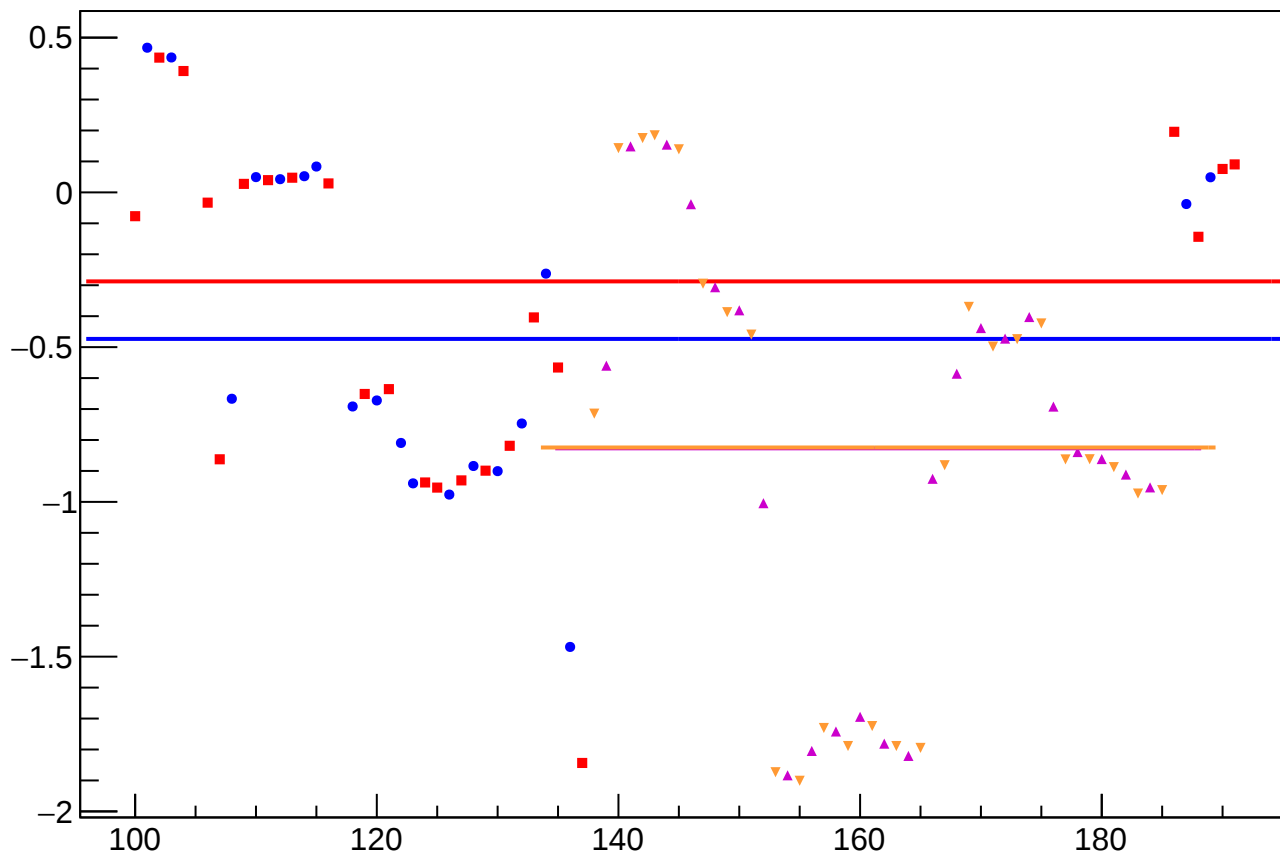
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 2305186.7/41

In: 0.007 $\pm$ 0.000 χ^2 /NDF:3593825.7/41

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:4413409.9/47

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 8011405.9/89

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.473+/-0.000 χ^2/NDF : 359575656.5/18

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

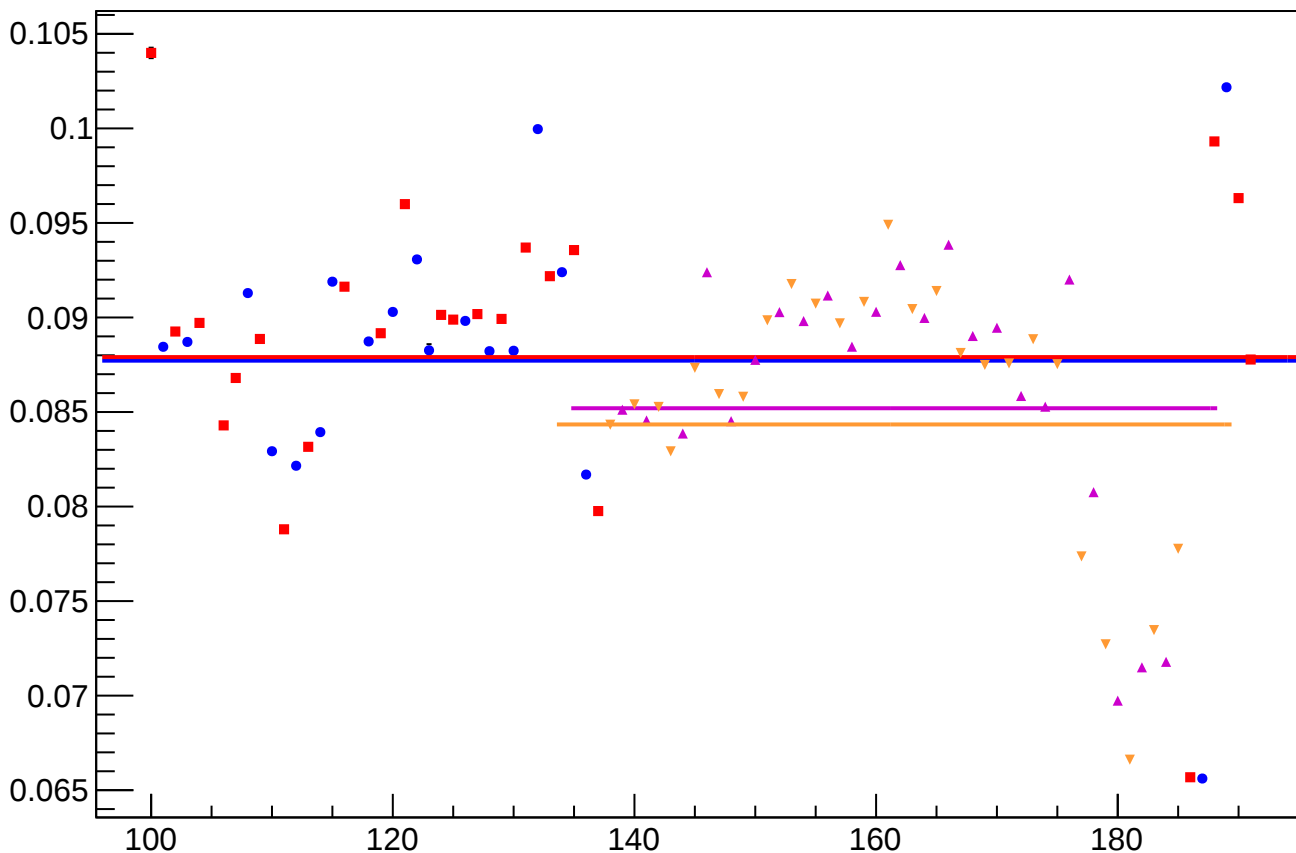
Right: -0.371+/-0.000 χ^2/NDF : 684868721.9/41

In: -0.726+/-0.000 χ^2/NDF : 1365467648.5/41

Out: -0.658+/-0.000 χ^2/NDF : 1639237590.5/47

All: -0.690+/-0.000 χ^2/NDF : 3012802658.5/8

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 87975.0/18

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

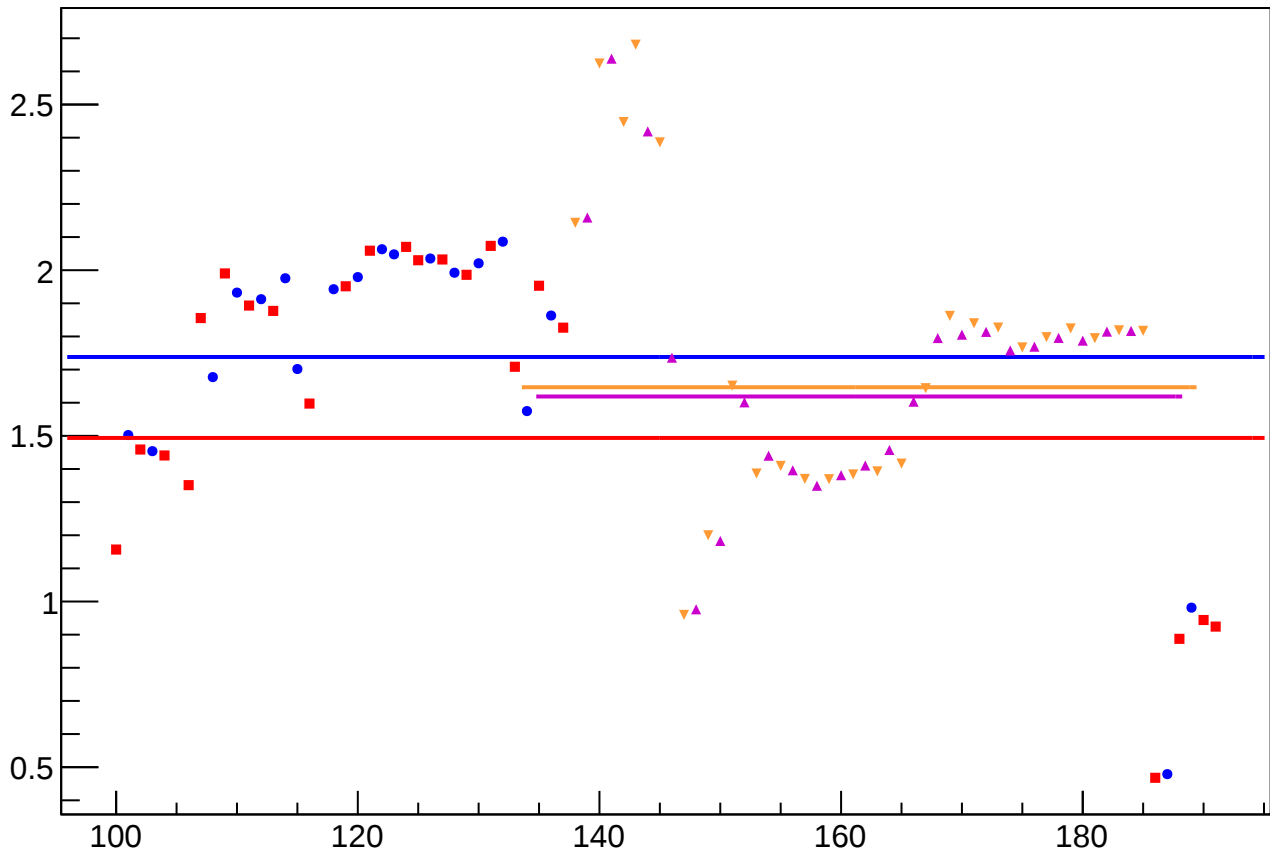
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 243418.4/41

In: 0.086 $\pm$ 0.000 χ^2 /NDF:334831.3/41

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:463827.7/47

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 799435.0/89

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.738 $\pm$ 0.000 χ^2 /NDF: 3065736895.3/18

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

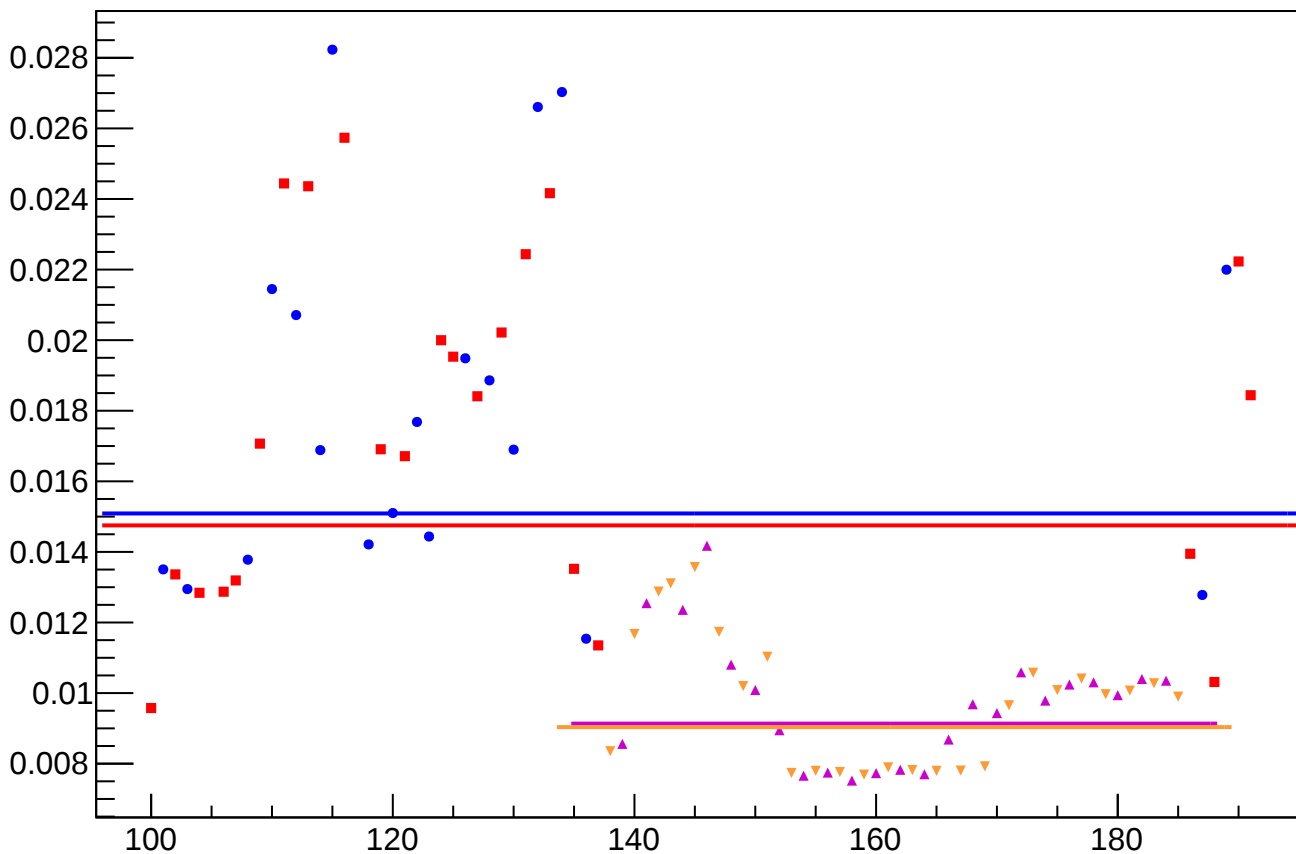
Right: 1.603 $\pm$ 0.000 χ^2 /NDF: 12234068153.4/41

In: 1.634 $\pm$ 0.000 χ^2 /NDF: 24025729727.9/41

Out: 1.625 $\pm$ 0.000 χ^2 /NDF: 35481427265.3/47

All: 1.629 $\pm$ 0.000 χ^2 /NDF: 59515584791.3/8

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 736373.0/18

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

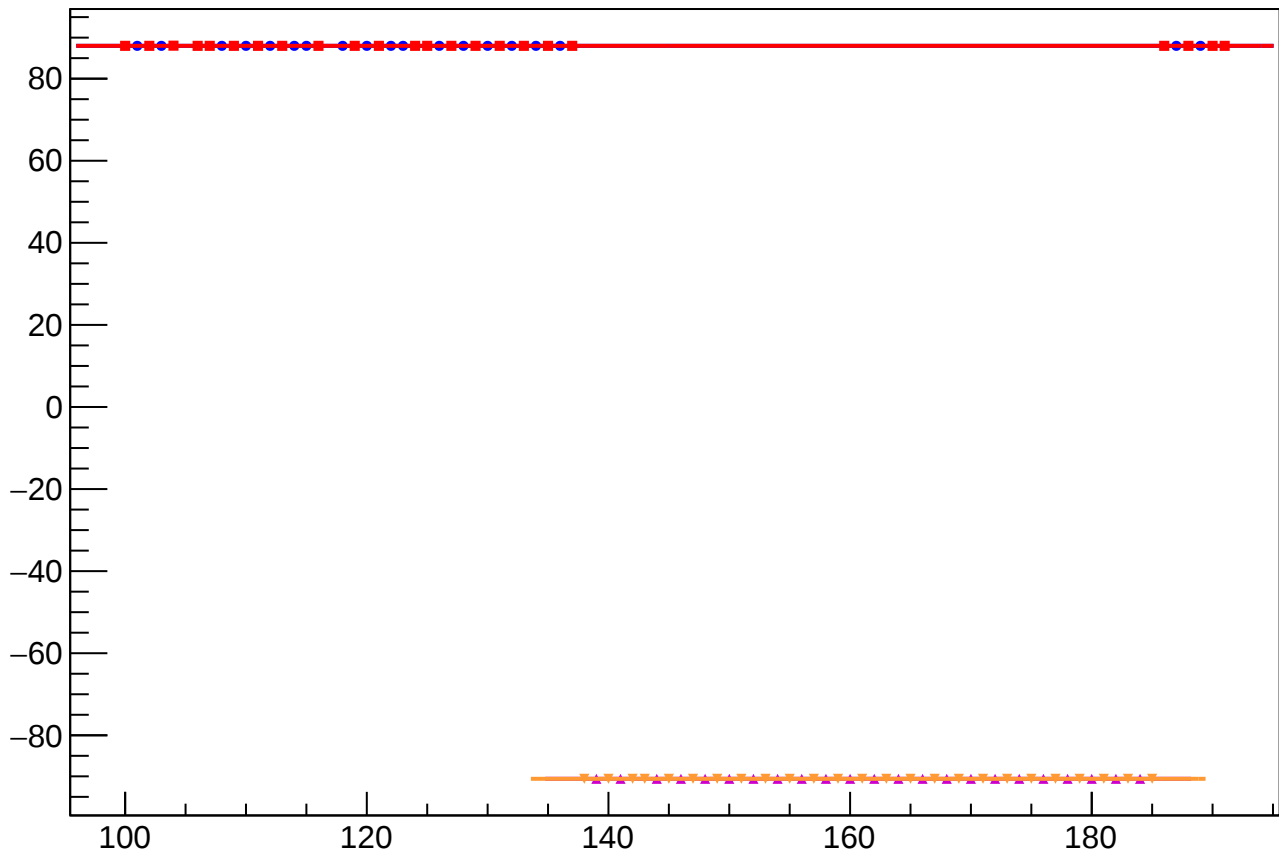
Right: 0.015+/-0.000 χ^2/NDF : 1920195.1/41

In: 0.010+/-0.000 χ^2/NDF :3320435.9/41

Out: 0.010+/-0.000 χ^2/NDF :4139033.1/47

All: 0.010+/-0.000 χ^2/NDF : 7459873.9/89

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1908412.3/18

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

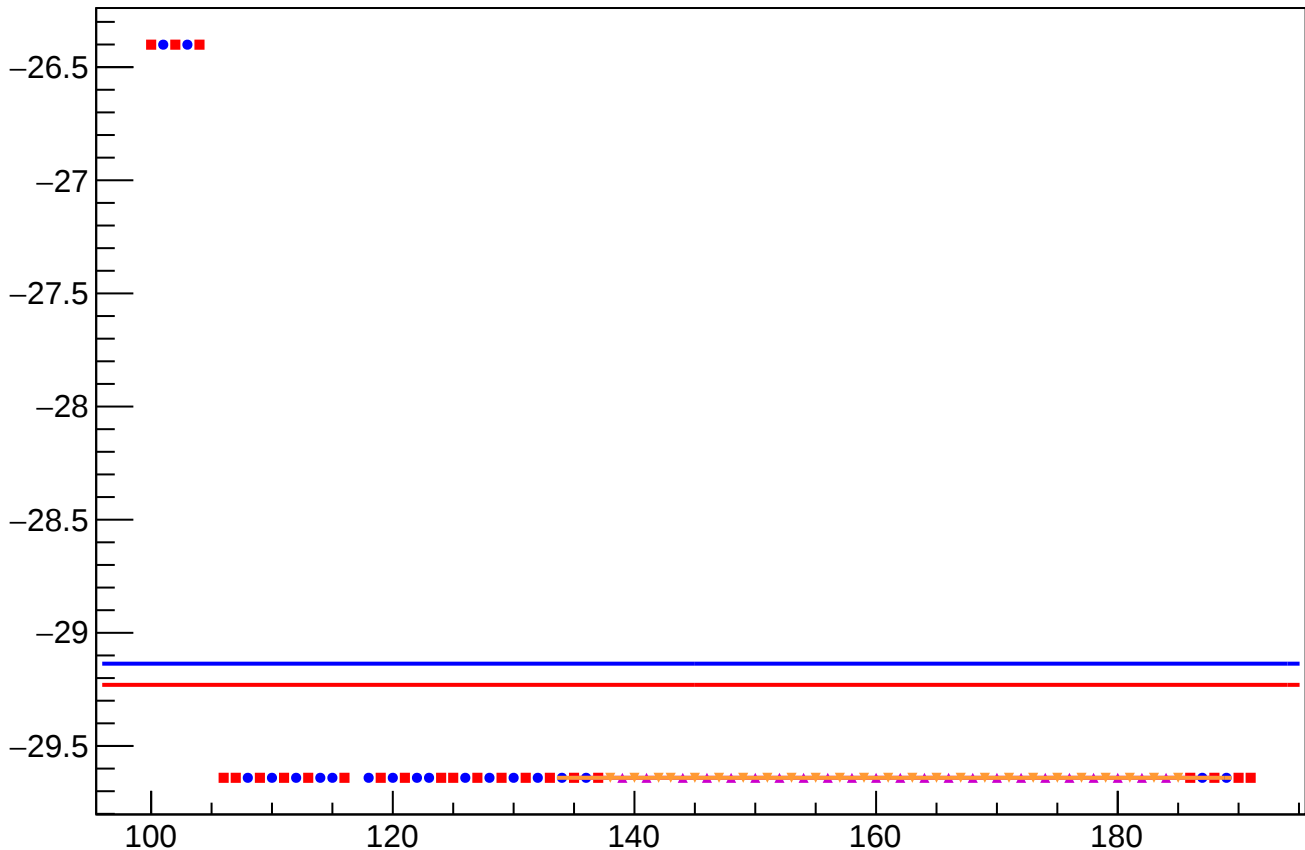
Right: 88.002+/-0.000 χ^2/NDF : 8089624944537957

In: -37.593+/-0.000 χ^2/NDF : 17002686769490966

Out: -32.649+/-0.000 χ^2/NDF : 1971700020242409

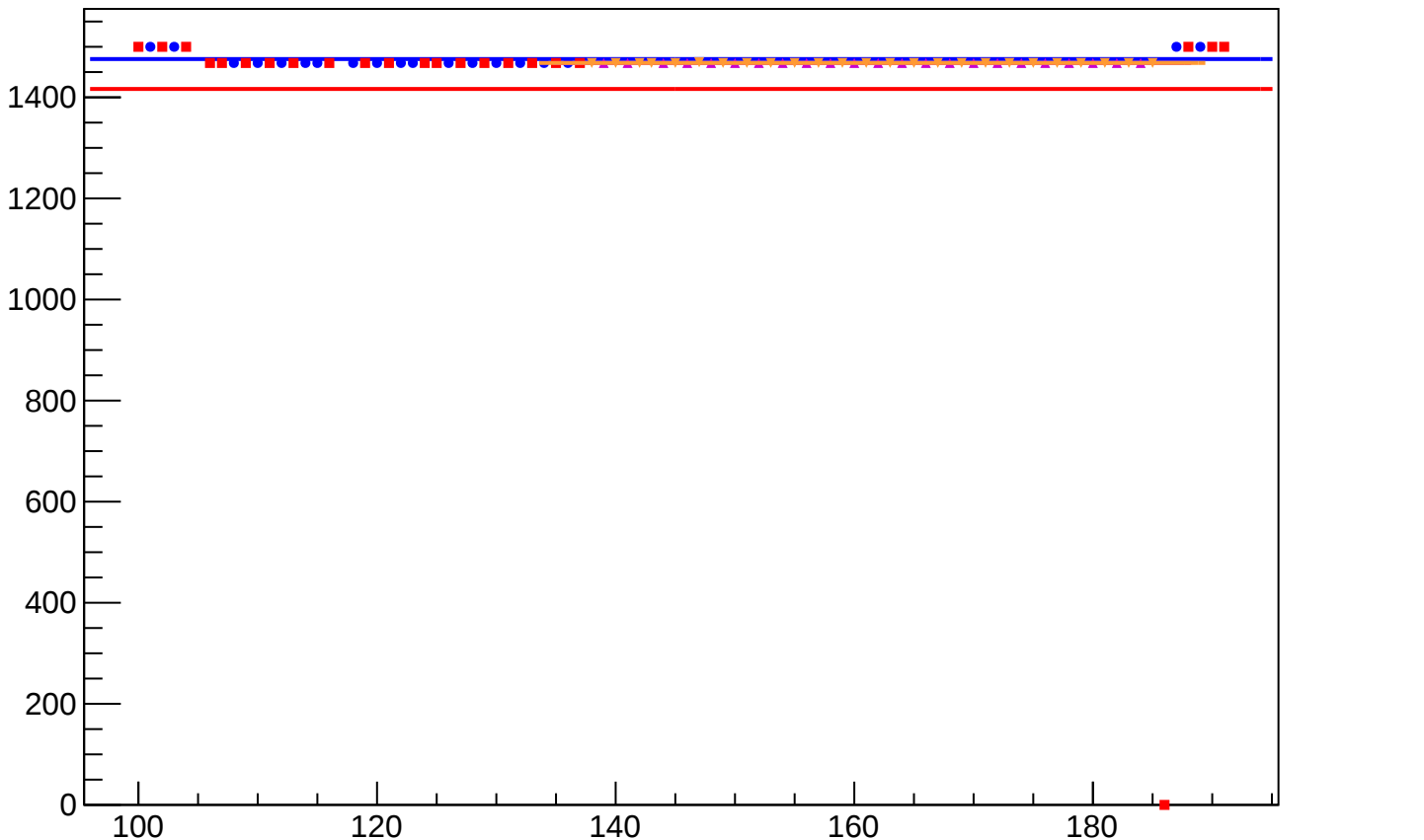
All: -34.998+/-0.000 χ^2/NDF : 367524479038

epics_HWienAngles_mean vs Slug, Sign Corrected



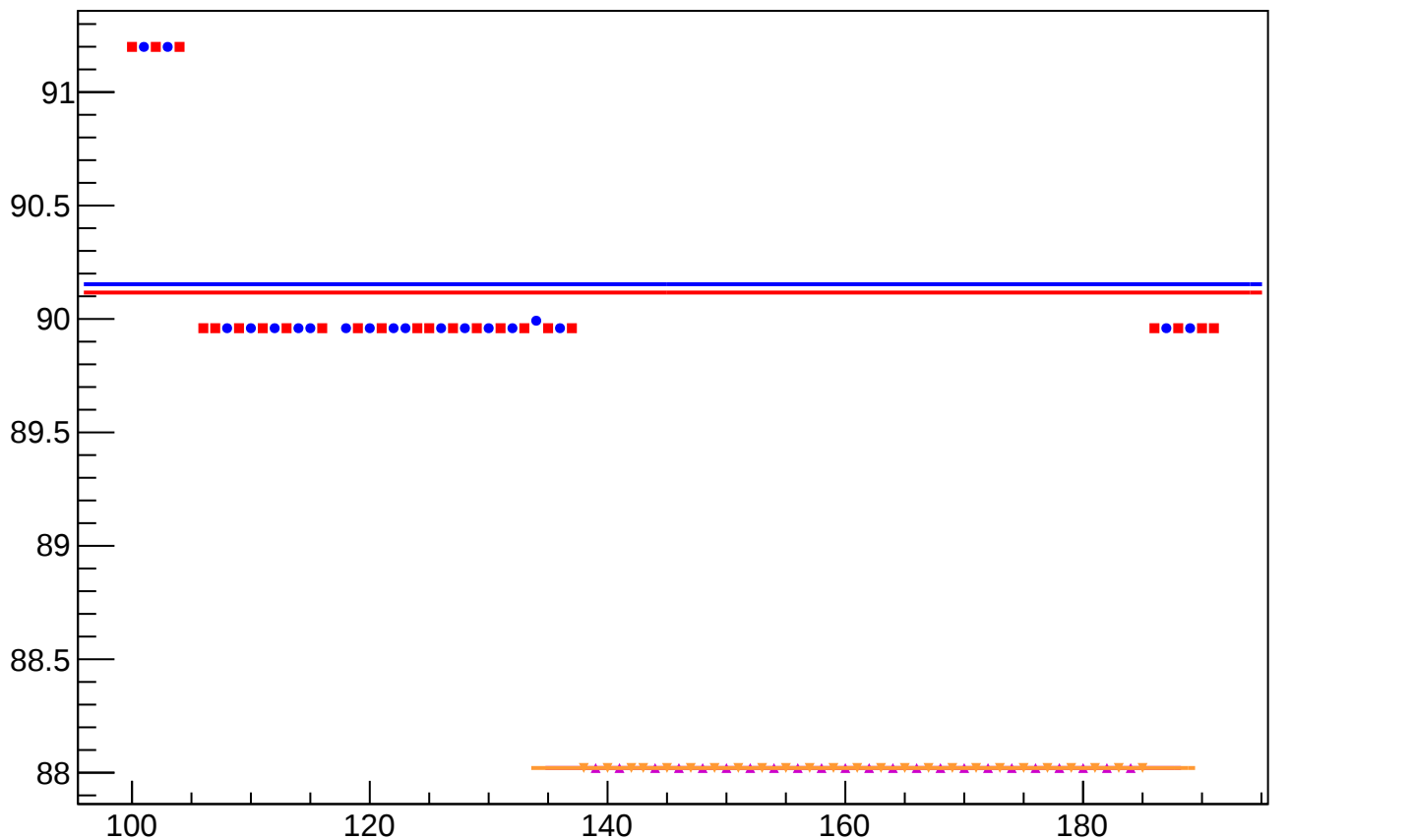
Right In: -29.136+/-0.000 χ^2/NDF : 1045882258575210691666098169839616.0/18
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.230+/-0.000 χ^2/NDF : 1063343779672136362954024630091776.0/22
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.491+/-0.000 χ^2/NDF : 11814855617854214
 Out: -29.507+/-0.000 χ^2/NDF : 1167630924255294
 All: -29.500+/-0.000 χ^2/NDF : 234947774023

epics_psub_pl_pos_mean vs Slug, Sign Corrected



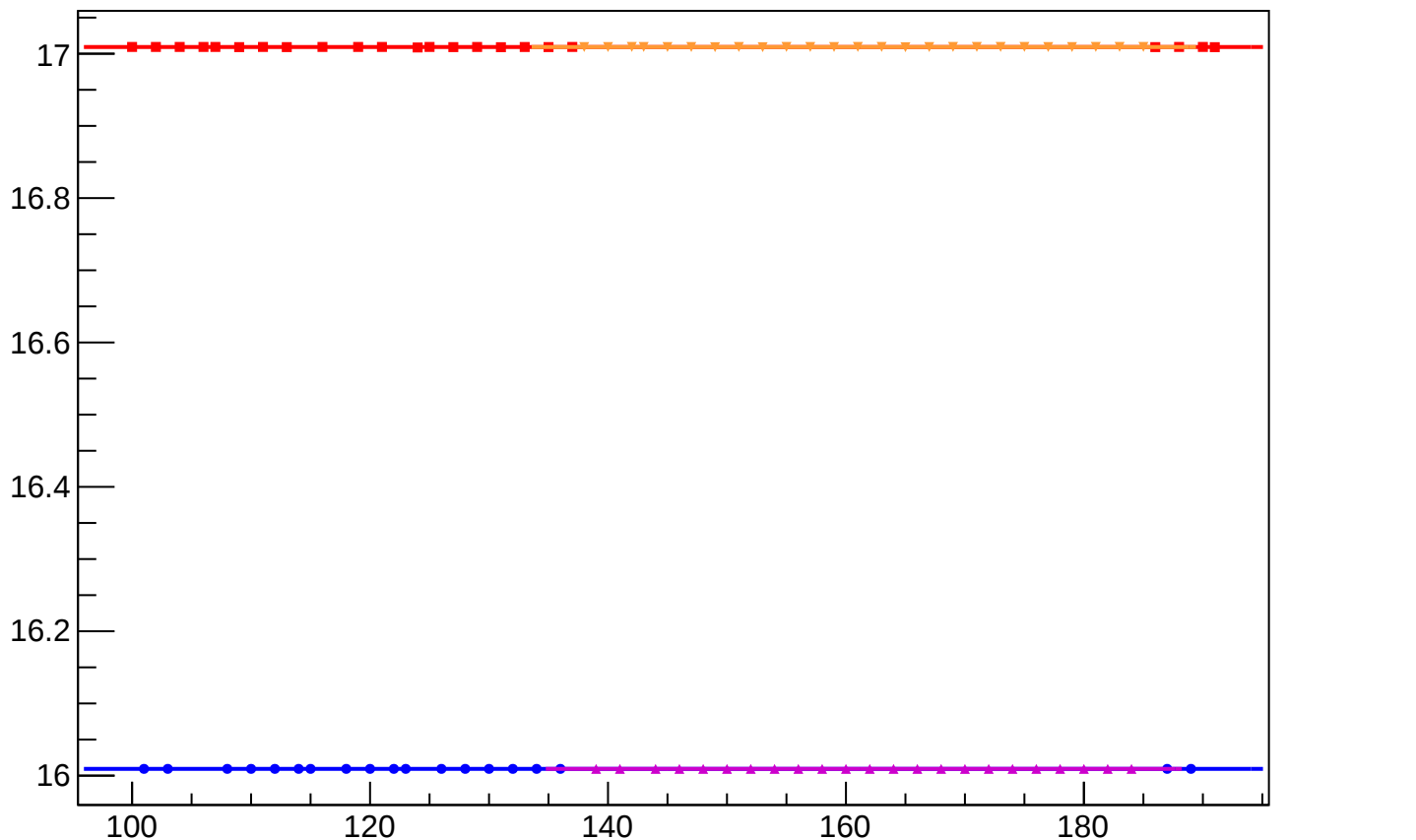
Left: 1468.022+/-0.000 χ^2/NDF : 130807817753460
 Right In: 1475.795+/-0.000 χ^2/NDF : 143396300032192981544873035586076672.0/18
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1416.568+/-0.000 χ^2/NDF : 79749059554397743060798330225043701760.0/22
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1460.357+/-0.000 χ^2/NDF : 82045114035

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.153+/-0.000 χ^2/NDF : 152946379362838606207114186588160.0/18
 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
 Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47
 Right: 90.133+/-0.000 χ^2/NDF : 3092558457267698
 In: 88.654+/-0.000 χ^2/NDF : 25770462419712320
 Out: 88.701+/-0.000 χ^2/NDF : 28707191271917918
 All: 88.678+/-0.000 χ^2/NDF : 5450738835194

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 57164.0/18

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

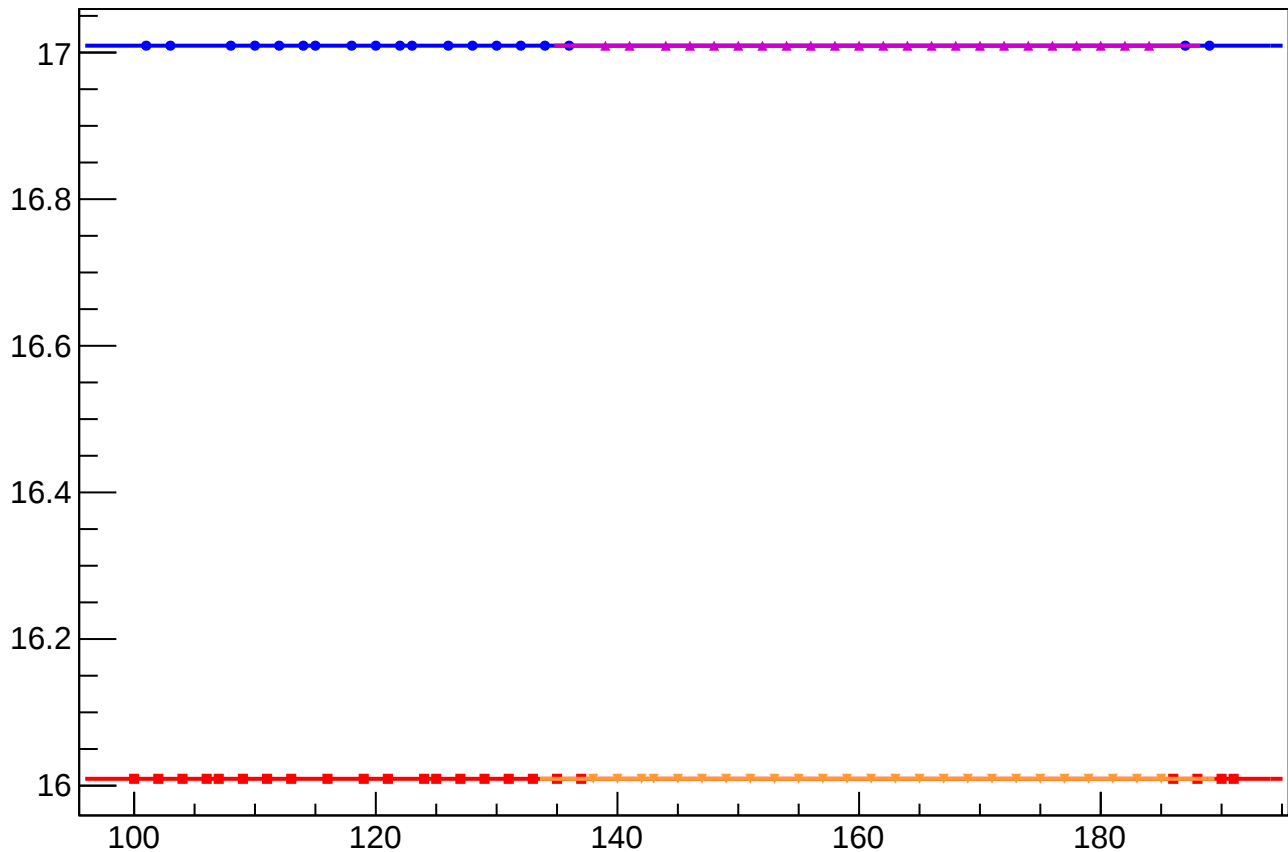
Right: 16.548 $\pm$ 0.000 χ^2 /NDF: 3910667908405057

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129696476503141735

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 41675203025127394

All: 16.532 $\pm$ 0.000 χ^2 /NDF: 1250243787193

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 120007.8/18

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

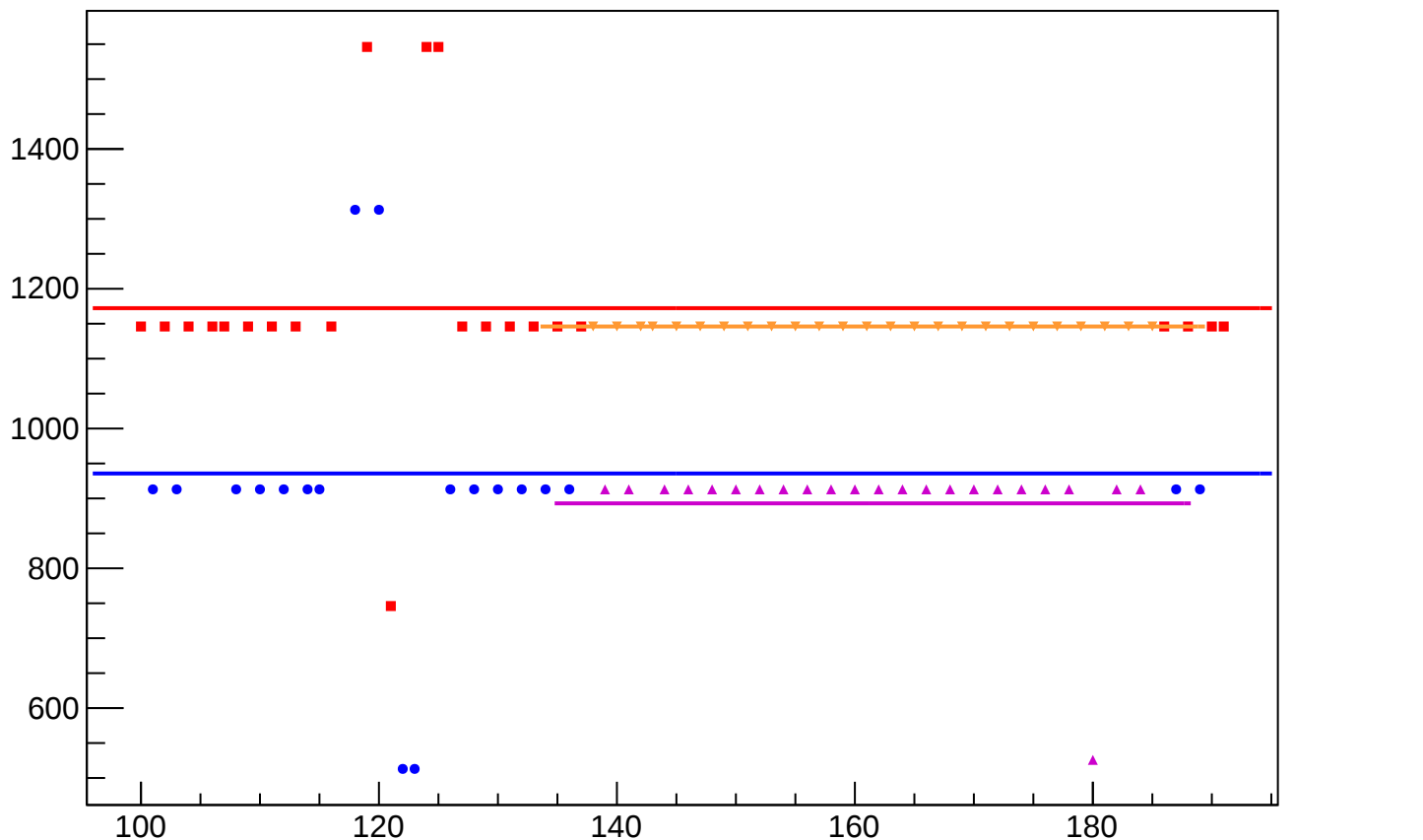
Right: 16.454 $\pm$ 0.000 χ^2 /NDF: 4034320685434370

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116620750457595861

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 498295.0/47

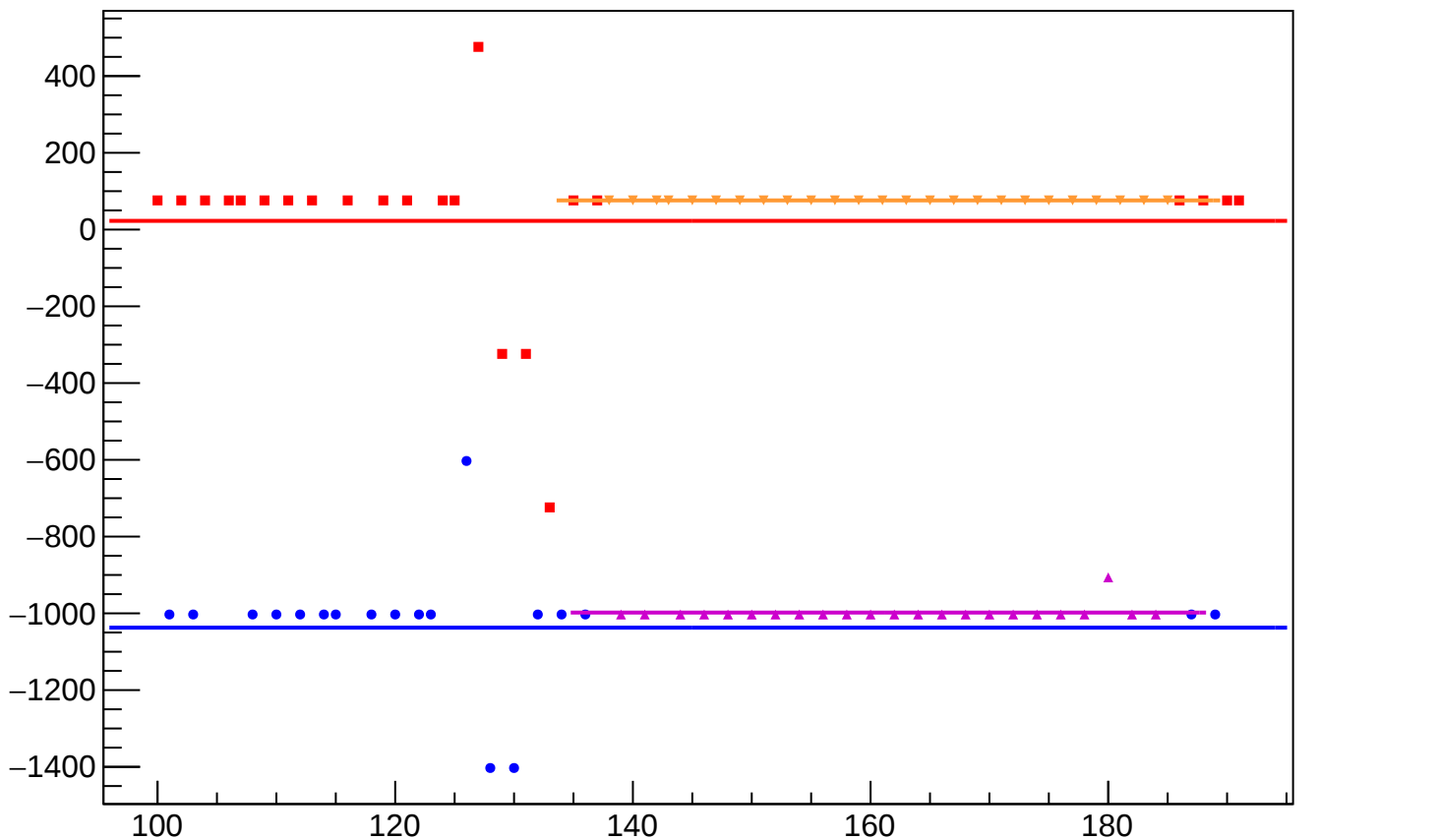
All: 16.480 $\pm$ 0.000 χ^2 /NDF: 1311875345494

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1023.207+/-0.000 χ^2/NDF : 724152114185977
 Right In: 935.687+/-0.000 χ^2/NDF : 20891032979868353609310040081374904320.0/18
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1172.239+/-0.000 χ^2/NDF : 21451208460825940475473257963423006720.0/22
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1036.237+/-0.000 χ^2/NDF : 13997387005

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Left: -445.169 +/- 0.000 χ^2/NDF : 106713327806479
 Right In: -1037.290 +/- 0.000 χ^2/NDF : 22307839929443685195943868479205015552.0/18
 Left Out: 76.011 +/- 0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right: -457.571 +/- 0.000 χ^2/NDF : 53252282217570
 In: -1009.646 +/- 0.000 χ^2/NDF : 239574394793998
 Right Out: 22.677 +/- 0.000 χ^2/NDF : 44437041410482396857841751146840981504.0/22
 Out: 58.706 +/- 0.000 χ^2/NDF : 46195282424704506
 Left In: -997.979 +/- 0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -449.030 +/- 0.000 χ^2/NDF : 15998333336