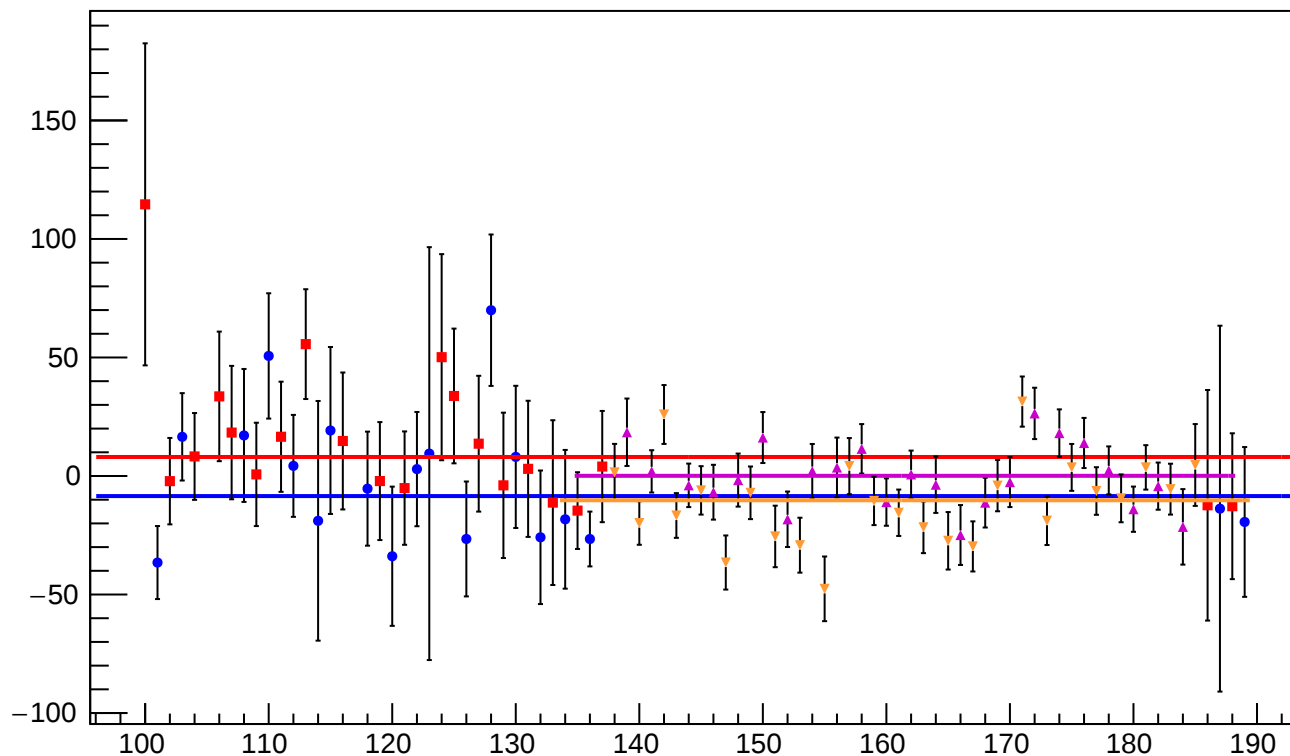


diff_bpm4aX_mean vs Slug, Sign Corrected



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: 8.026 ± 5.556

$\chi^2/\text{NDF}: 13.7/20$

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: -0.278 ± 3.915

$\chi^2/\text{NDF}: 41.1/39$

In: -1.139 ± 2.084

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

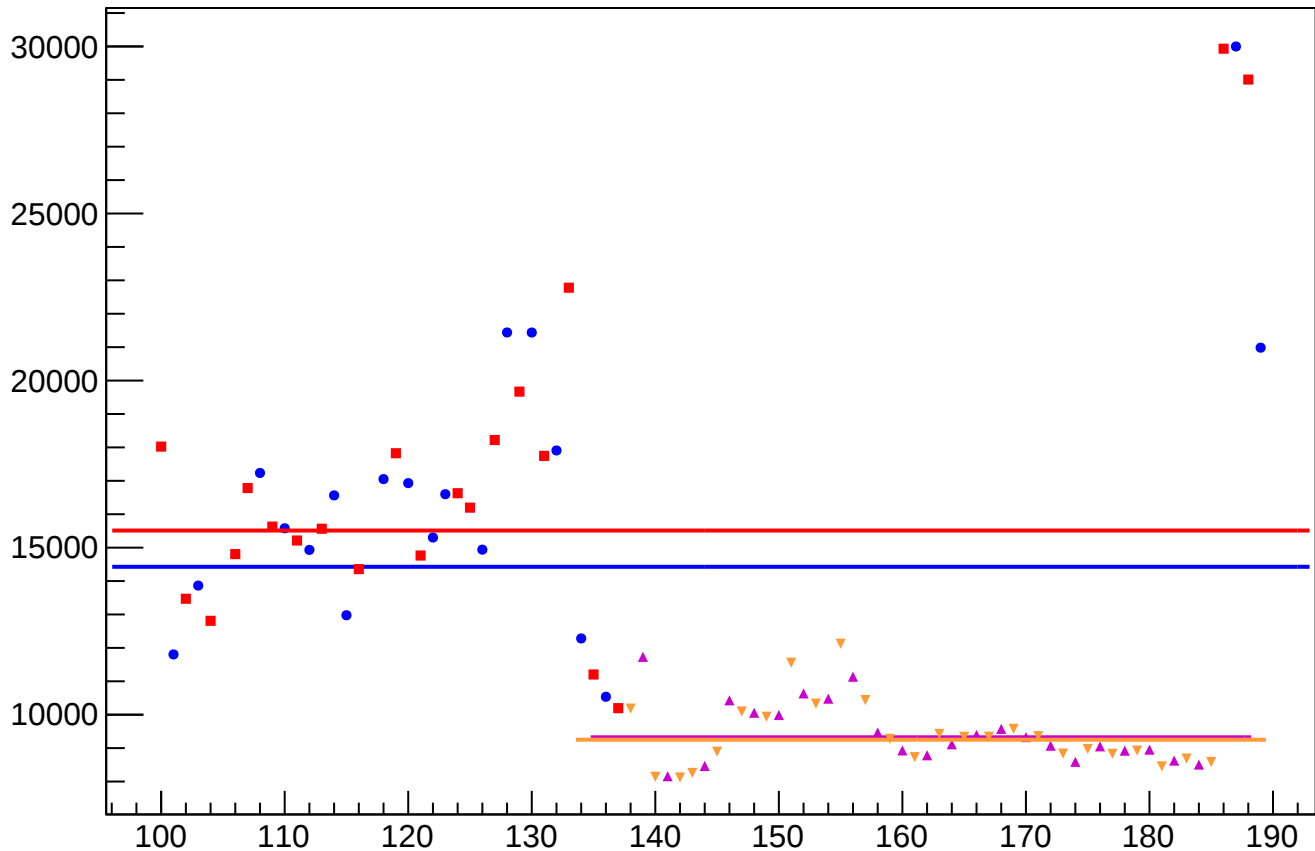
Out: -7.820 ± 2.021

$\chi^2/\text{NDF}: 81.2/45$

All: -4.581 ± 1.451

$\chi^2/\text{NDF}: 141.4/87$

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: 15511.868 $\pm$ 3.929 χ^2/NDF : 1061481.6/20

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

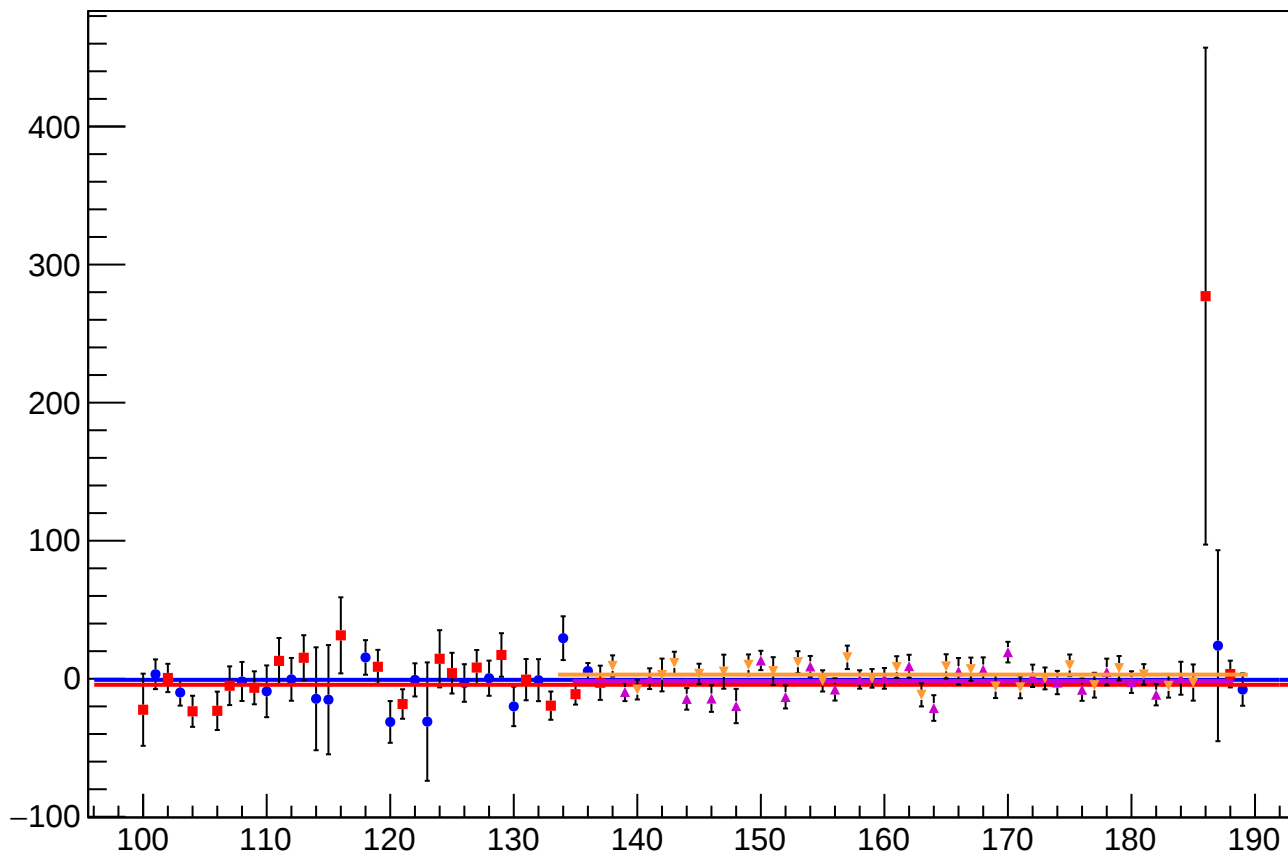
Right: 14965.769 $\pm$ 2.769 χ^2/NDF : 1875790.0/39

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

Out: 10080.532 $\pm$ 1.429 χ^2/NDF : 3596744.2/45

All: 10066.537 $\pm$ 1.026 χ^2/NDF : 6114889.0/8

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.751 $\pm$ 2.973 χ^2/NDF : 14.9/18

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

Right Out: -4.334 $\pm$ 2.815 χ^2/NDF : 22.7/20

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

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

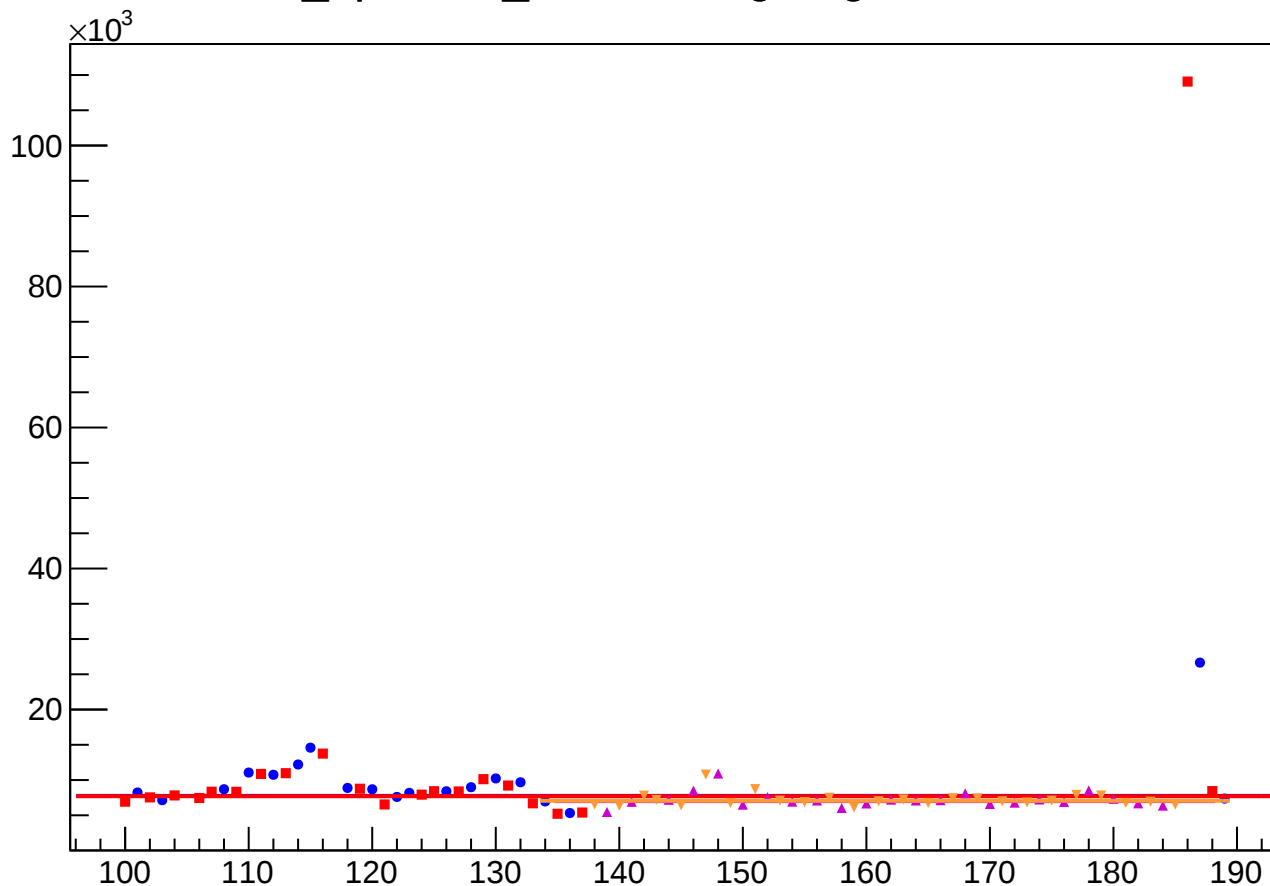
Right: -2.641 $\pm$ 2.044 χ^2/NDF : 38.4/39

In: -1.382 $\pm$ 1.478 χ^2/NDF : 50.5/41

Out: 1.126 $\pm$ 1.430 χ^2/NDF : 46.4/45

All: -0.087 $\pm$ 1.028 χ^2/NDF : 98.3/87

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: 7705.363 $\pm$ 1.990 χ^2/NDF : 1331050.3/20

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

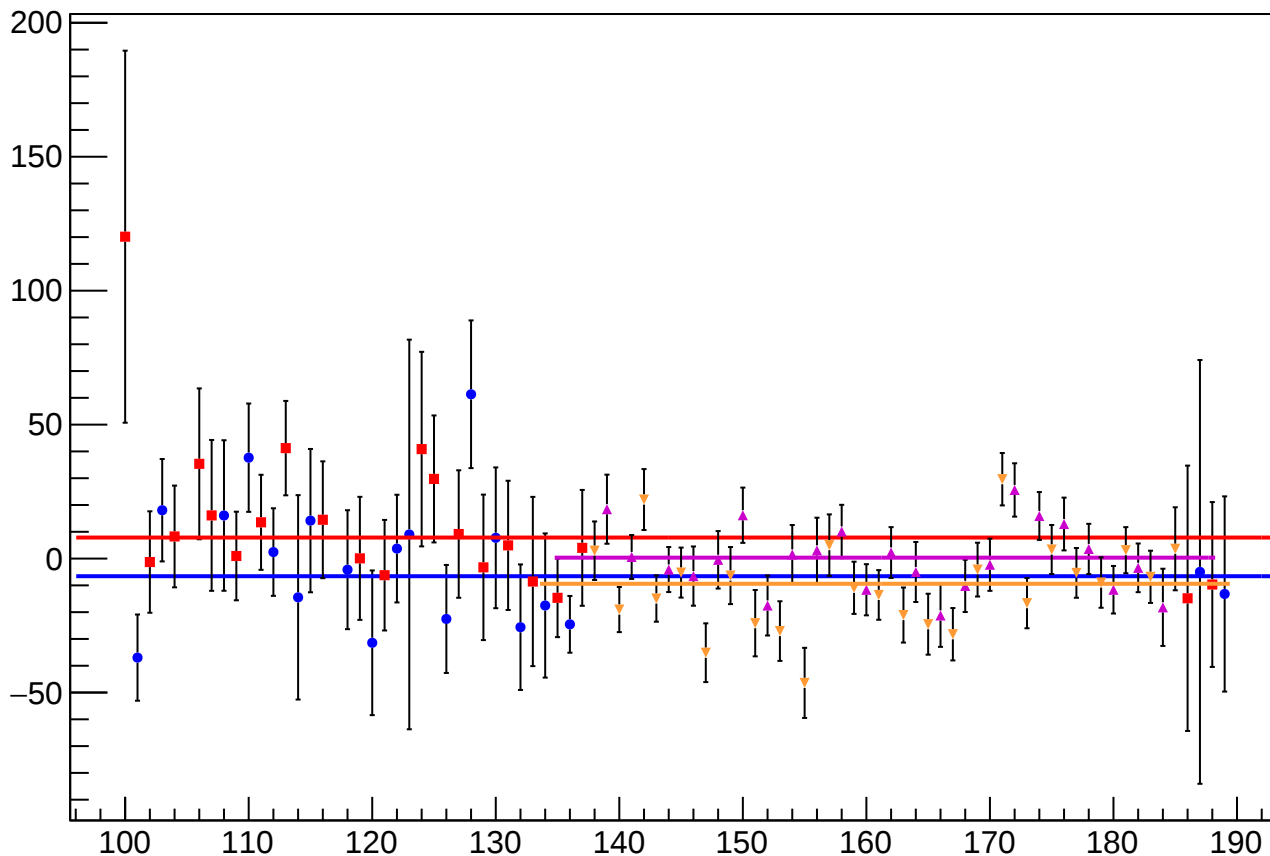
Right: 7726.429 $\pm$ 1.445 χ^2/NDF : 2223864.3/39

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

Out: 7229.939 $\pm$ 1.011 χ^2/NDF : 1794788.4/45

All: 7213.594 $\pm$ 0.727 χ^2/NDF : 3305344.8/87

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: 7.851 ± 4.919 $\chi^2/\text{NDF}: 13.5/20$

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

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

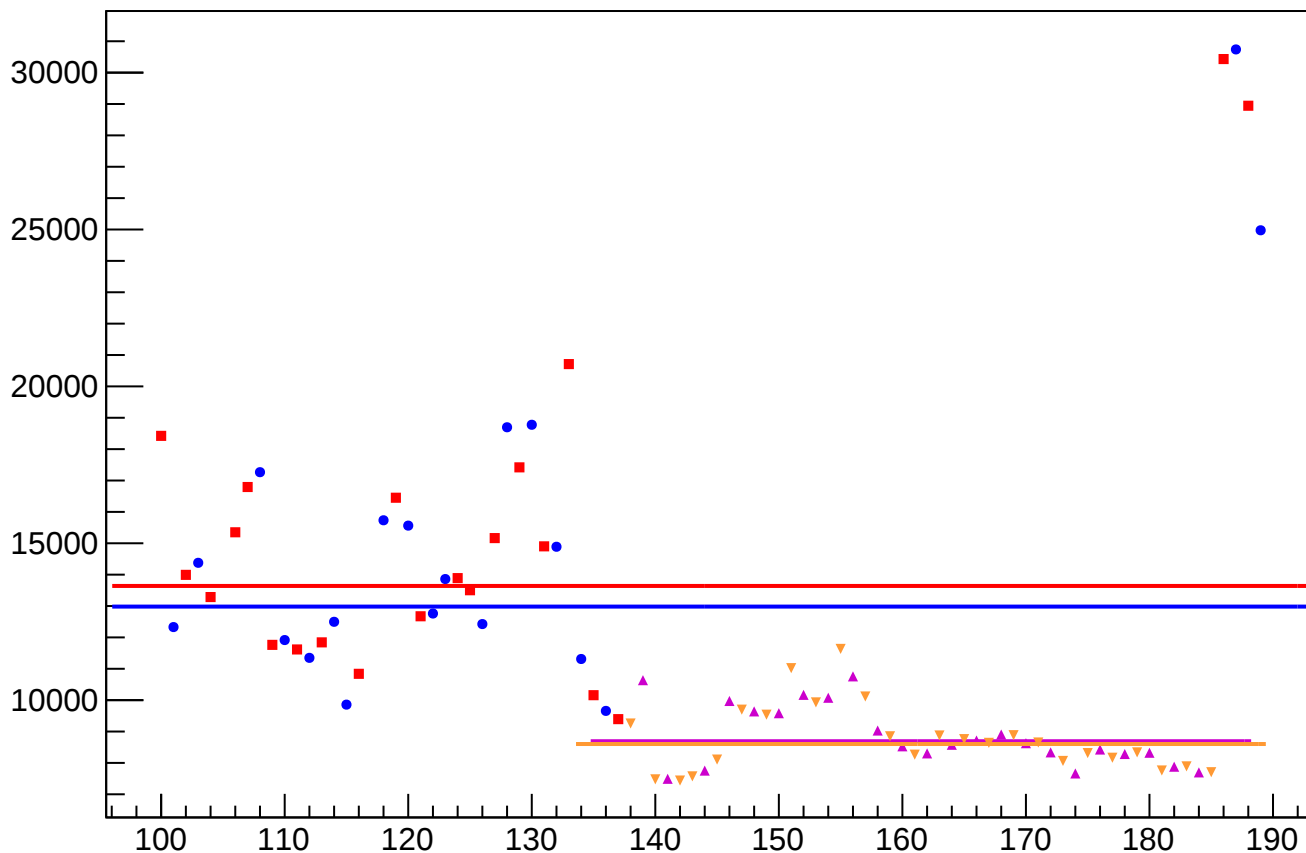
Right: 0.711 ± 3.497 $\chi^2/\text{NDF}: 41.2/39$

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

Out: -6.918 ± 1.869 $\chi^2/\text{NDF}: 82.8/45$

All: -3.919 ± 1.344 $\chi^2/\text{NDF}: 143.2/87$

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: 13640.006+/-3.478 χ^2/NDF : 1250571.6/20

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

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

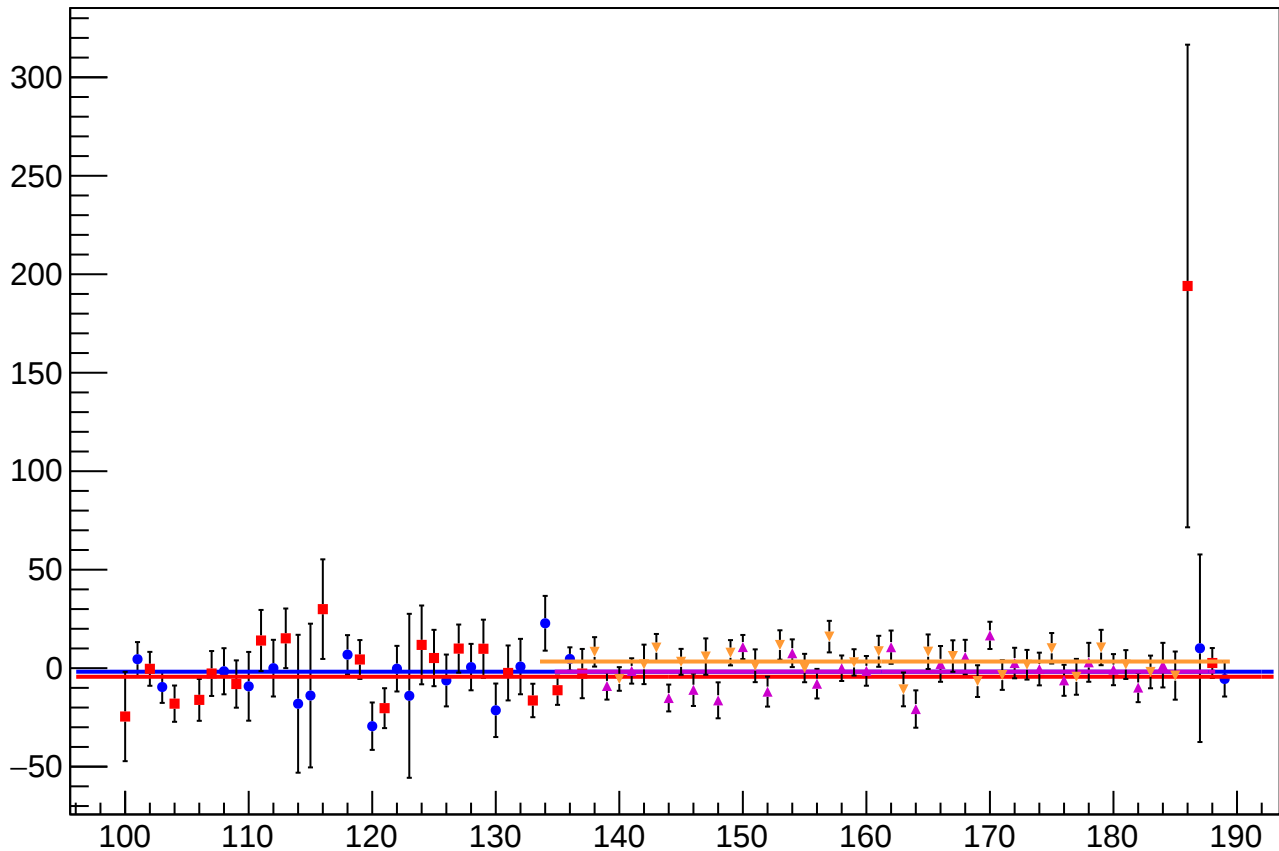
Right: 13314.511+/-2.473 χ^2/NDF : 2151536.0/39

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

Out: 9329.739+/-1.322 χ^2/NDF : 3484045.1/45

All: 9335.254+/-0.951 χ^2/NDF : 5996805.4/87

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.799 ± 2.663 χ^2/NDF : 15.0/18

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

Right Out: -4.367 ± 2.497 χ^2/NDF : 22.5/20

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

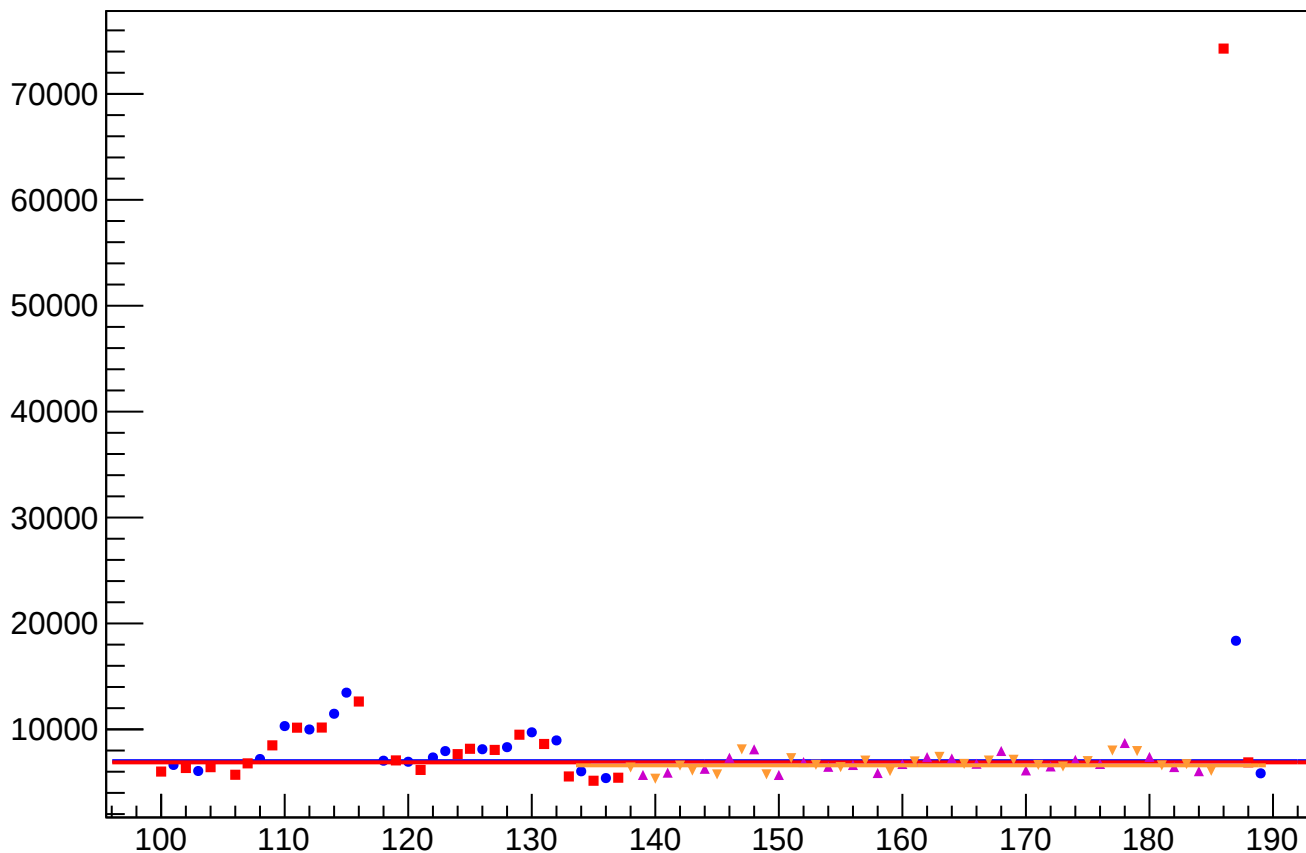
Right: -3.166 ± 1.821 χ^2/NDF : 37.9/39

In: -1.767 ± 1.376 χ^2/NDF : 48.5/41

Out: 1.217 ± 1.318 χ^2/NDF : 46.6/45

All: -0.211 ± 0.952 χ^2/NDF : 97.5/87

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6996.304+/-1.883 χ^2/NDF : 749530.5/18

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

Right Out: 6882.824+/-1.766 χ^2/NDF : 1294031.8/20

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

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

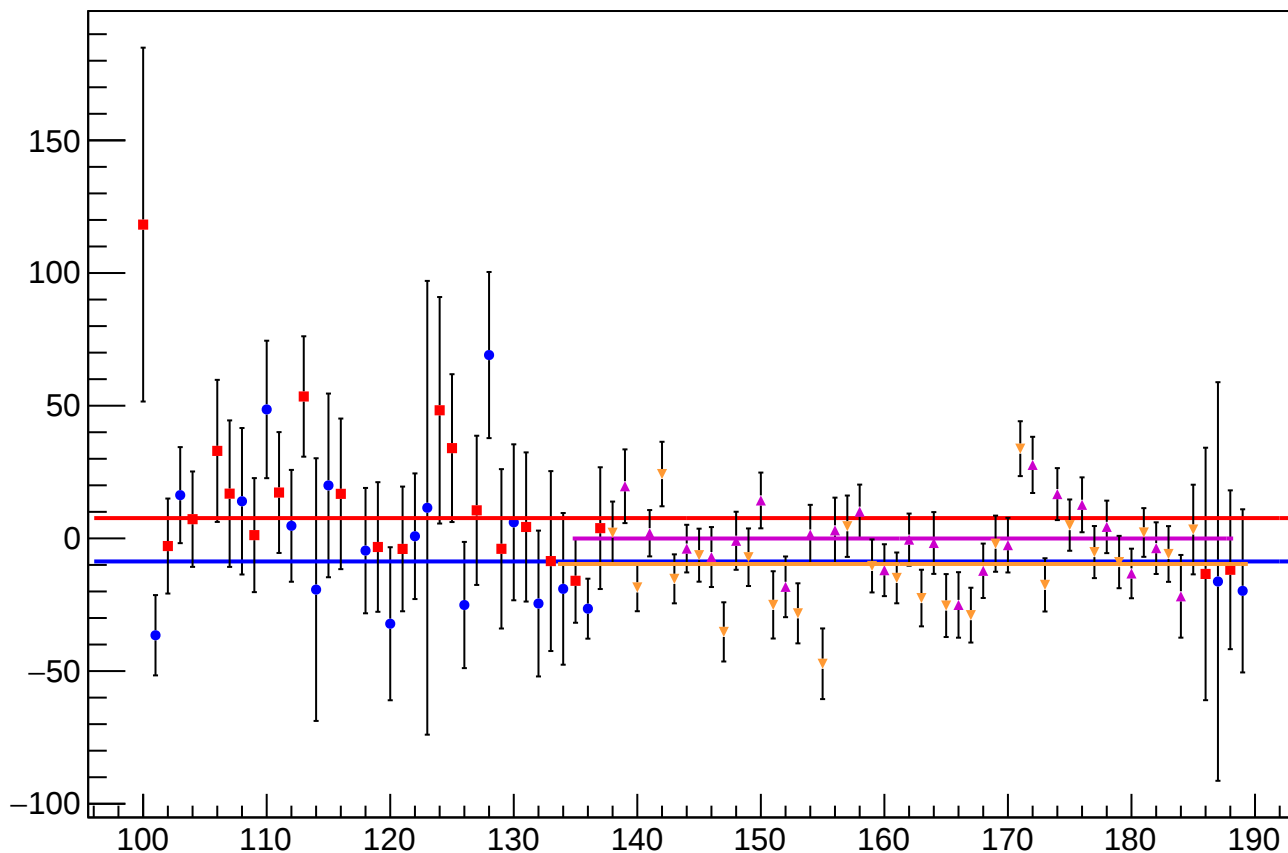
Right: 6935.921+/-1.288 χ^2/NDF : 2045495.0/39

In: 6733.035+/-0.973 χ^2/NDF : 1191746.8/41

Out: 6681.648+/-0.932 χ^2/NDF : 1707274.3/45

All: 6706.239+/-0.673 χ^2/NDF : 2900475.8/87

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.688 $\pm$ 5.407 χ^2/NDF : 22.9/18

Left Out: -9.640 $\pm$ 2.122 χ^2/NDF : 59.9/24

Right Out: 7.649 $\pm$ 5.445 χ^2/NDF : 14.1/20

Left In: -0.042 $\pm$ 2.200 χ^2/NDF : 30.8/22

Left: -5.015 $\pm$ 1.527 χ^2/NDF : 100.5/47

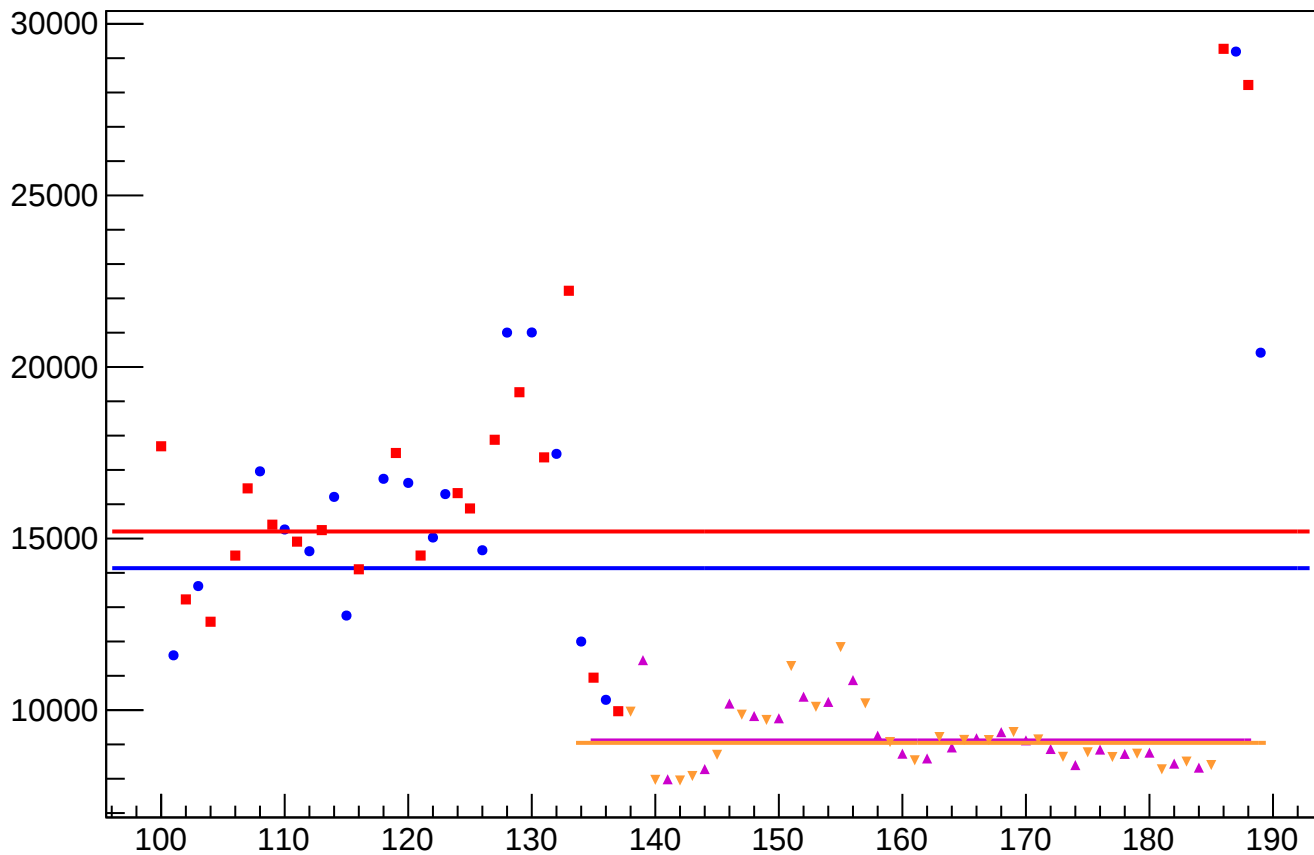
Right: -0.576 $\pm$ 3.837 χ^2/NDF : 41.5/39

In: -1.270 $\pm$ 2.038 χ^2/NDF : 55.8/41

Out: -7.361 $\pm$ 1.977 χ^2/NDF : 82.7/45

All: -4.408 $\pm$ 1.419 χ^2/NDF : 143.2/87

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: 15206.053 $\pm$ 3.850 χ^2 /NDF: 1055621.5/20

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

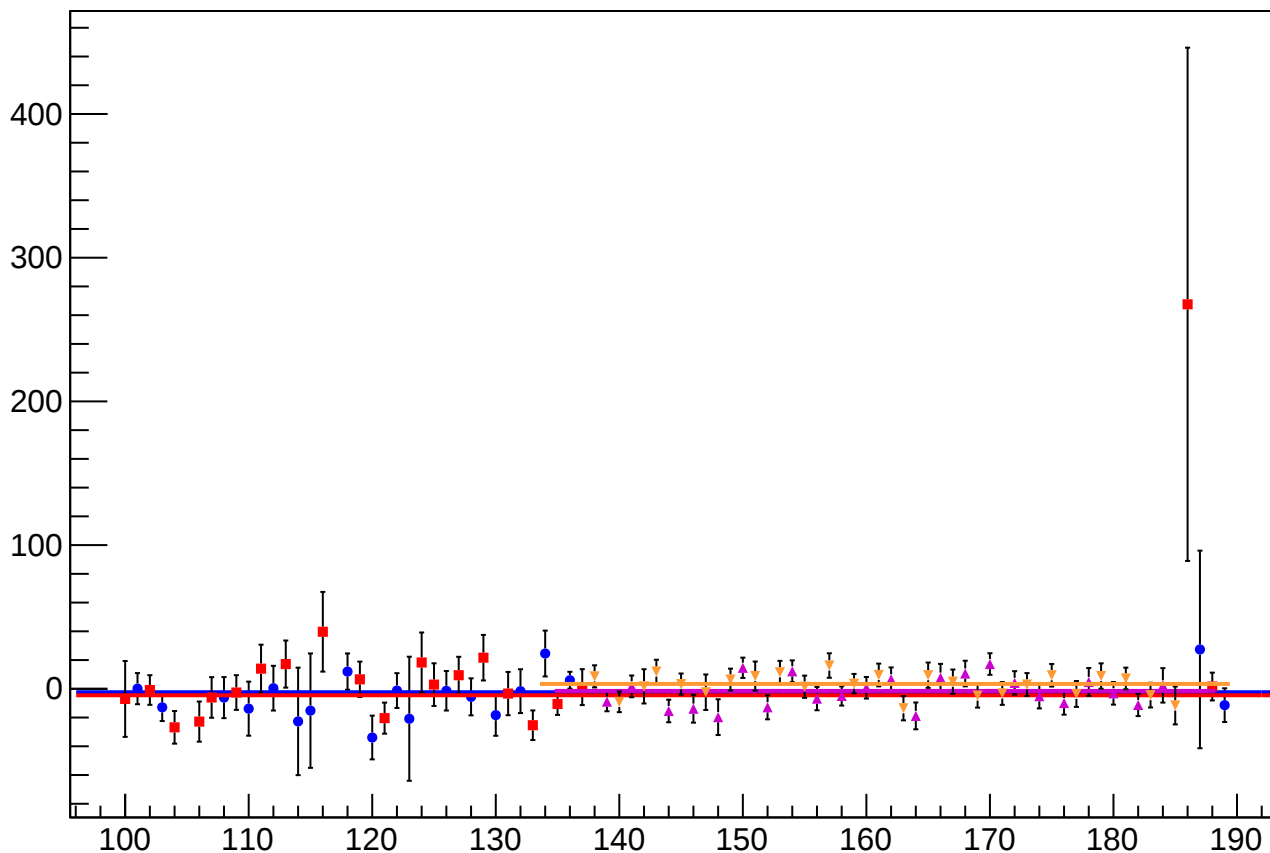
Right: 14667.844 $\pm$ 2.713 χ^2 /NDF: 1869739.7/39

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

Out: 9857.842 $\pm$ 1.398 χ^2 /NDF:3606316.4/45

All: 9843.854 $\pm$ 1.003 χ^2 /NDF: 6133884.7/87

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: -4.509 ± 2.834 χ^2/NDF : 27.3/20

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

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

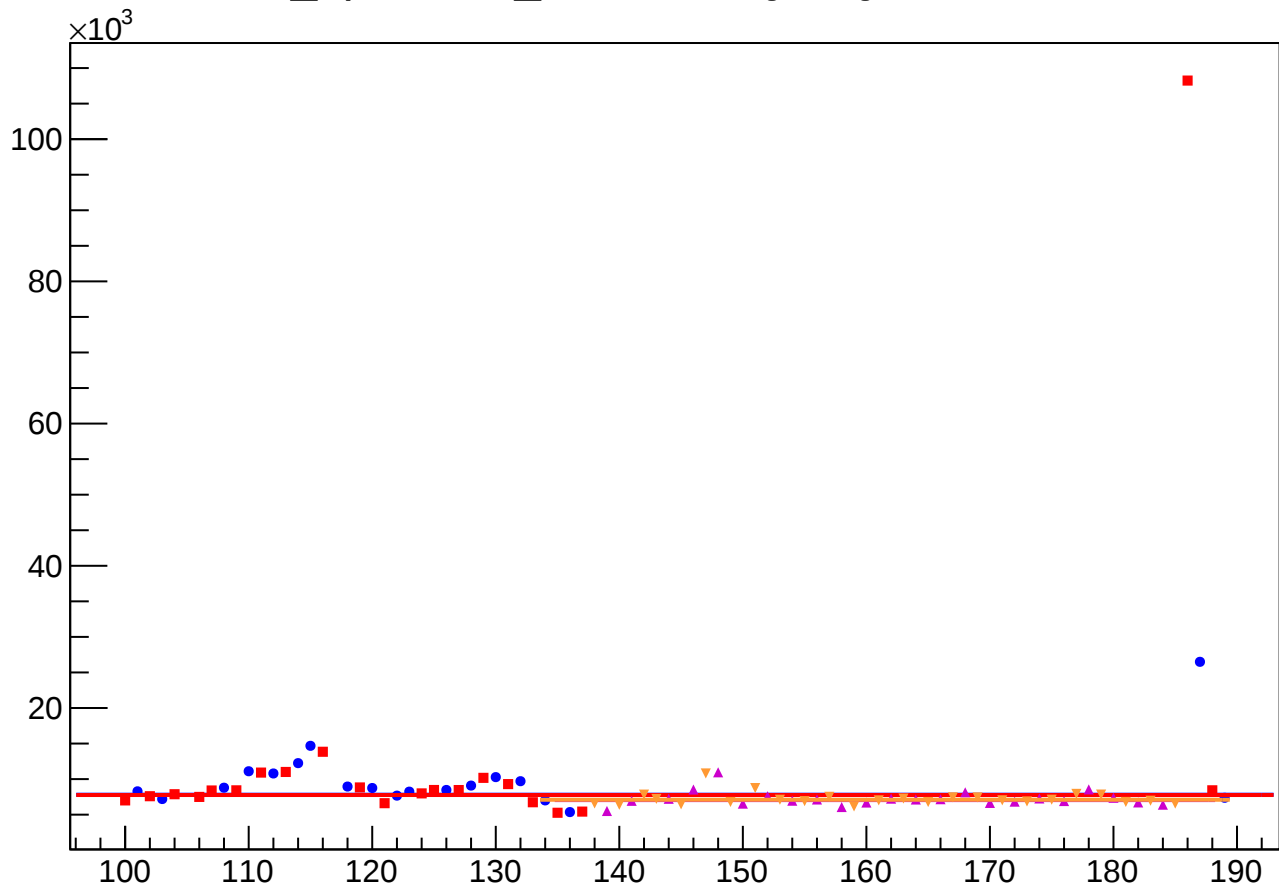
Right: -3.509 ± 2.058 χ^2/NDF : 42.4/39

In: -1.705 ± 1.485 χ^2/NDF : 51.7/41

Out: 1.356 ± 1.437 χ^2/NDF : 52.4/45

All: -0.124 ± 1.033 χ^2/NDF : 106.3/87

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: 7762.515 $\pm$ 2.004 χ^2/NDF : 1321040.6/20

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

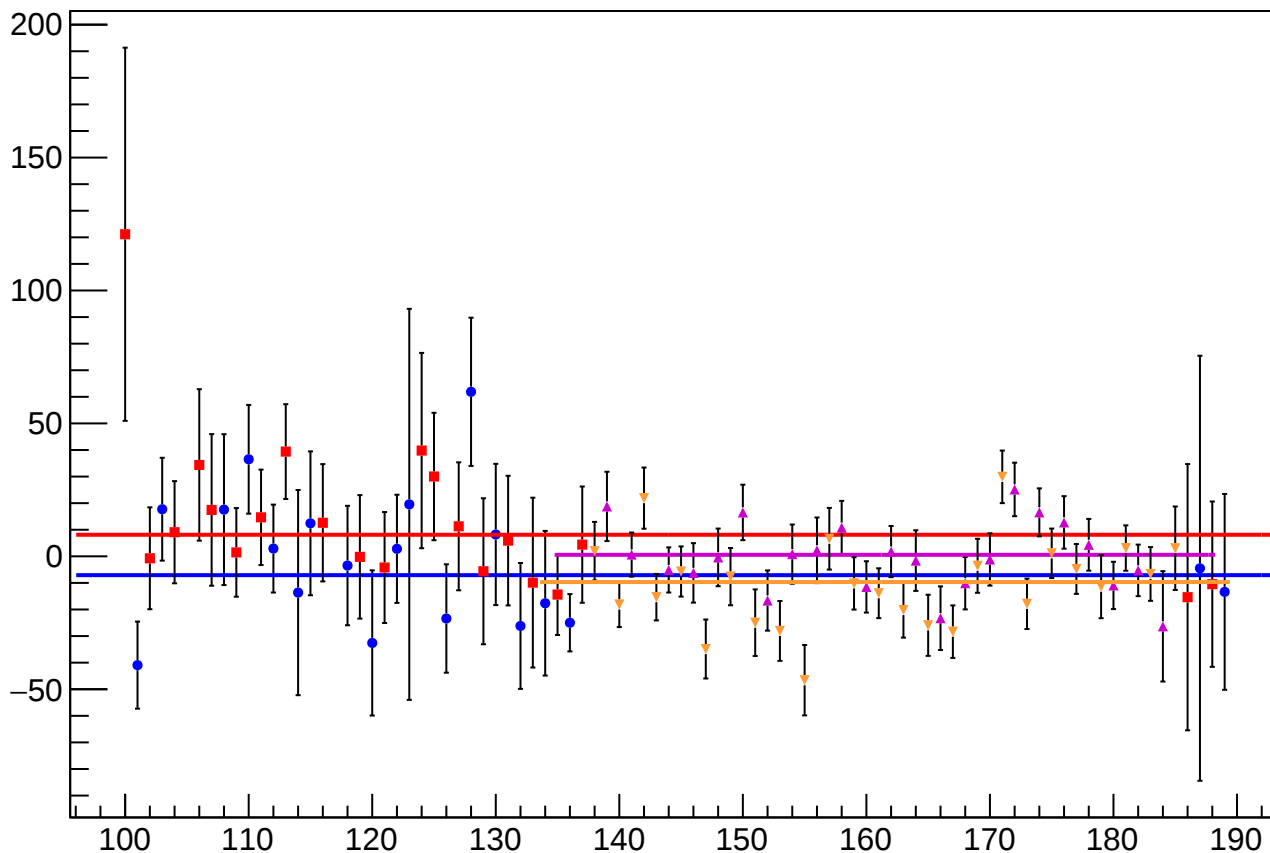
Right: 7782.933 $\pm$ 1.455 χ^2/NDF : 2208139.0/39

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

Out: 7267.701 $\pm$ 1.016 χ^2/NDF : 1785053.7/45

All: 7251.338 $\pm$ 0.730 χ^2/NDF : 3286678.9/87

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: 8.111 ± 4.989 $\chi^2/\text{NDF}: 12.6/20$

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

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

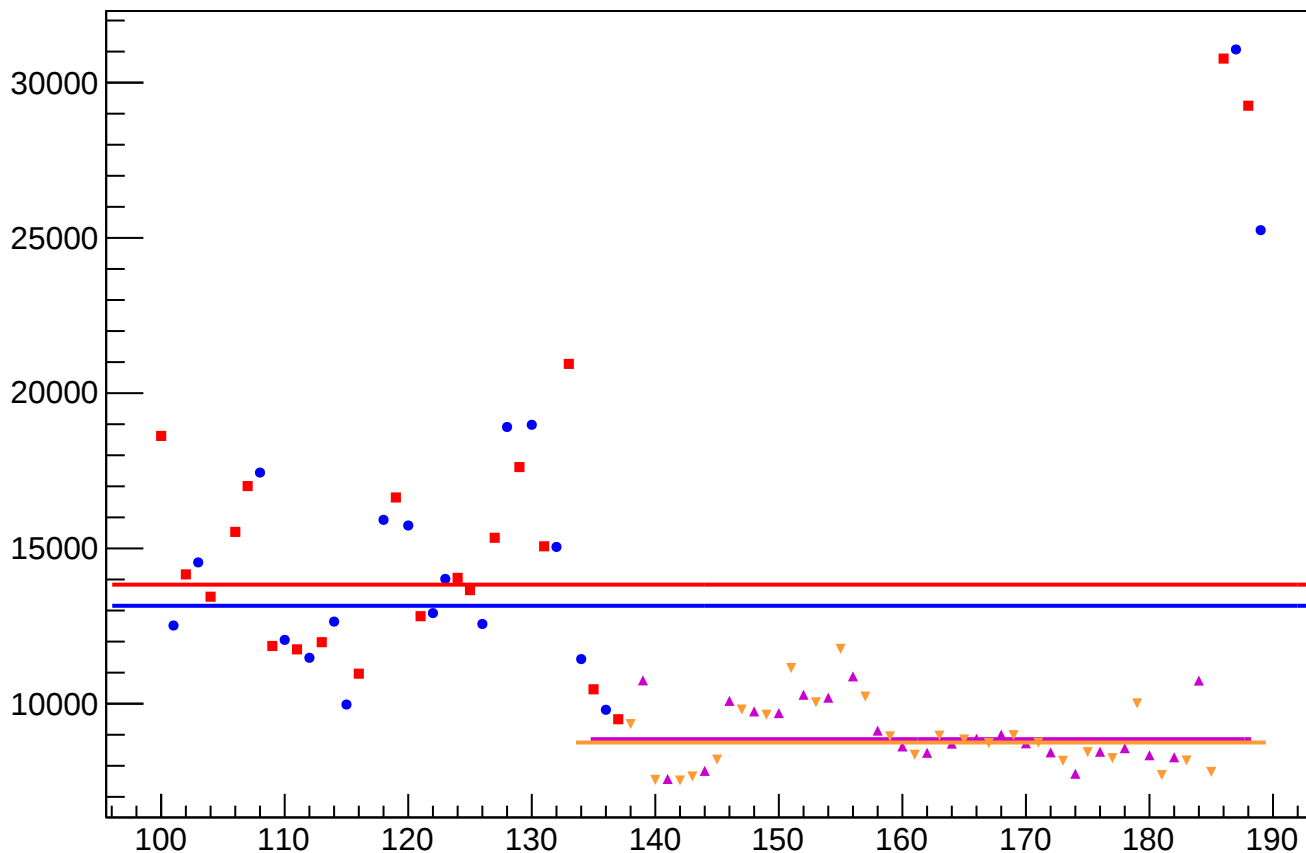
Right: 0.587 ± 3.545 $\chi^2/\text{NDF}: 41.3/39$

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

Out: -7.079 ± 1.905 $\chi^2/\text{NDF}: 81.4/45$

All: -3.957 ± 1.370 $\chi^2/\text{NDF}: 142.7/87$

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: 13833.923+/-3.528 χ^2/NDF : 1234501.9/20

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

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

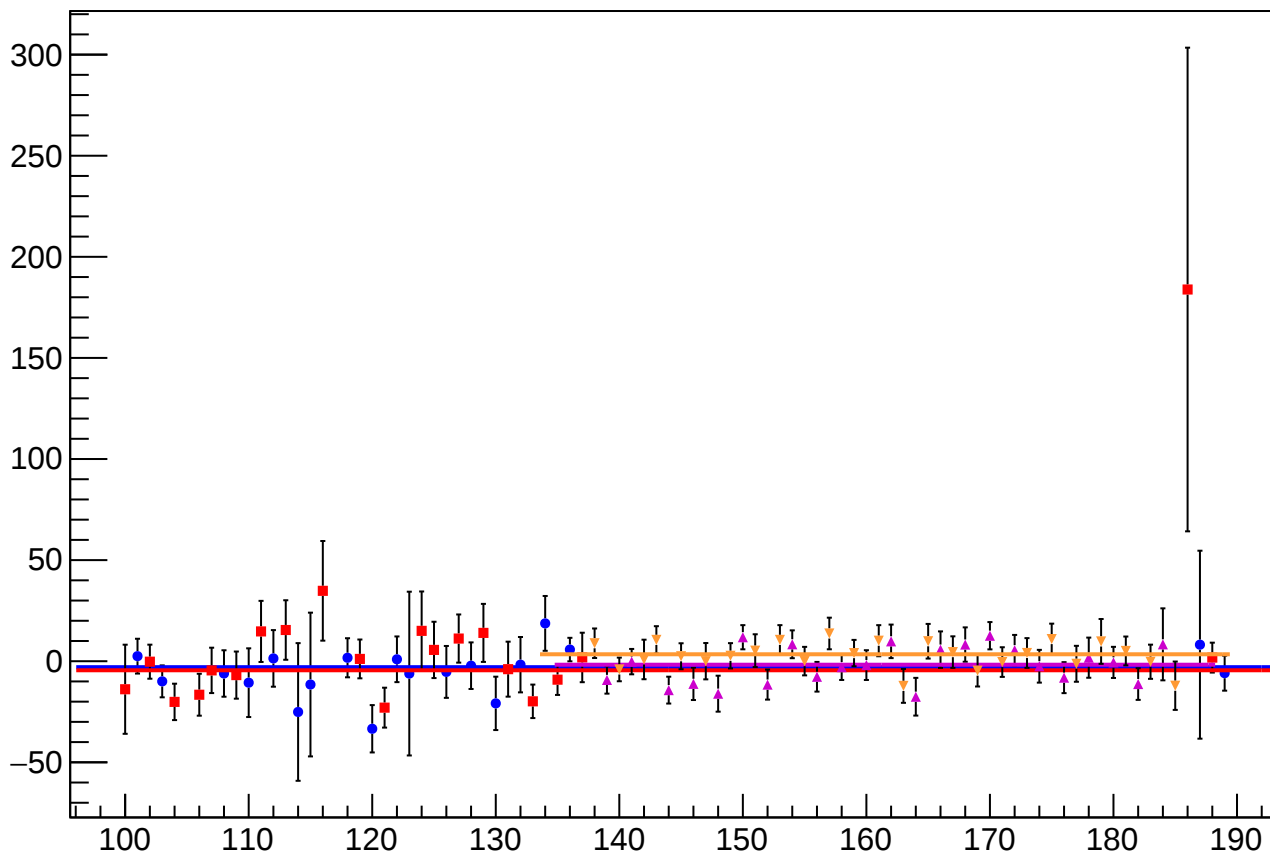
Right: 13496.818+/-2.507 χ^2/NDF : 2128415.4/39

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

Out: 9491.356+/-1.347 χ^2/NDF : 3472464.9/45

All: 9503.182+/-0.969 χ^2/NDF : 5941073.2/87

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: -4.480 ± 2.446 χ^2/NDF : 26.9/20

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

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

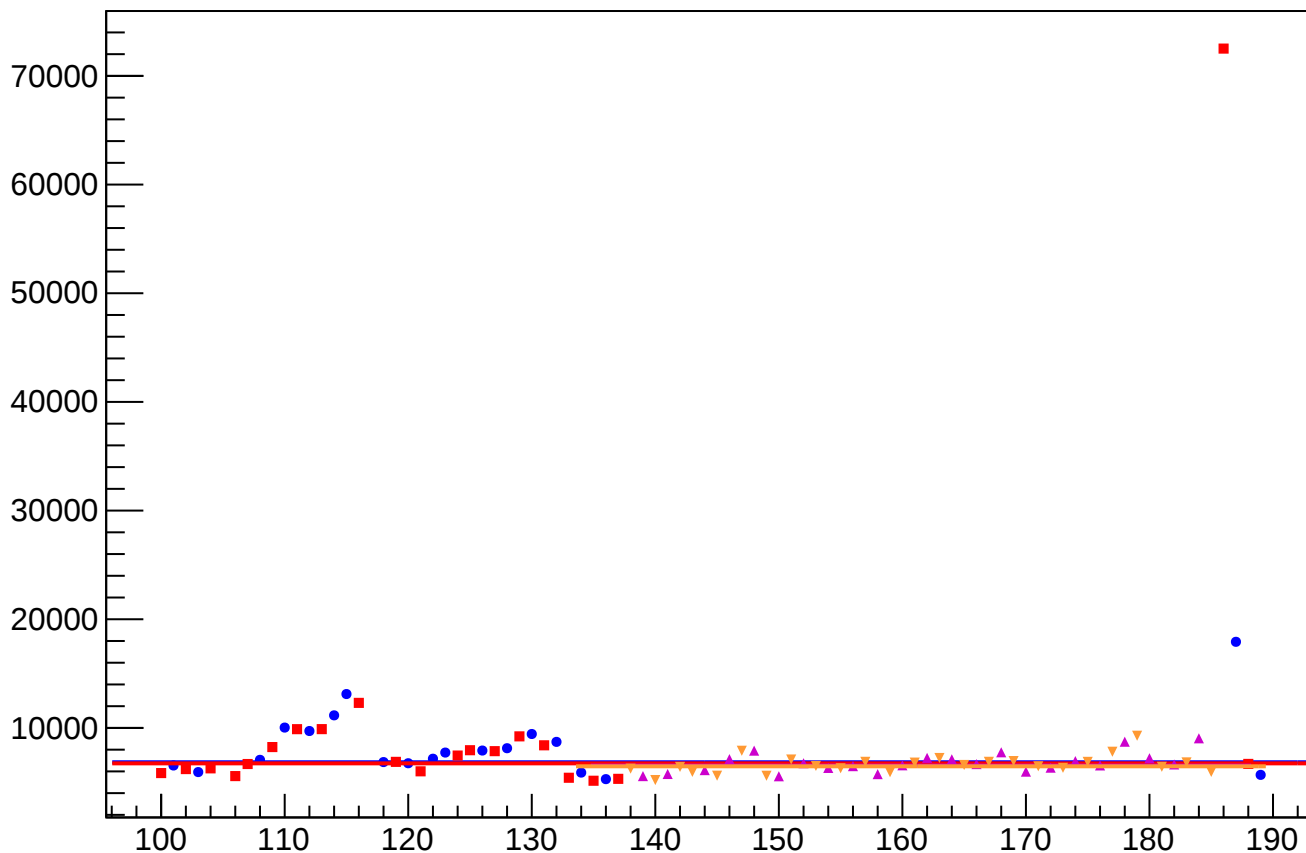
Right: -3.763 ± 1.783 χ^2/NDF : 43.1/39

In: -2.063 ± 1.355 χ^2/NDF : 49.8/41

Out: 1.216 ± 1.294 χ^2/NDF : 50.7/45

All: -0.349 ± 0.936 χ^2/NDF : 103.5/87

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6840.318 $\pm$ 1.842 χ^2 /NDF: 738387.2/18

Left Out: 6468.872 $\pm$ 1.079 χ^2 /NDF: 487187.3/24

Right Out: 6739.705 $\pm$ 1.729 χ^2 /NDF: 1265114.4/20

Left In: 6530.954 $\pm$ 1.121 χ^2 /NDF: 464668.6/22

Left: 6498.713 $\pm$ 0.777 χ^2 /NDF: 953447.7/47

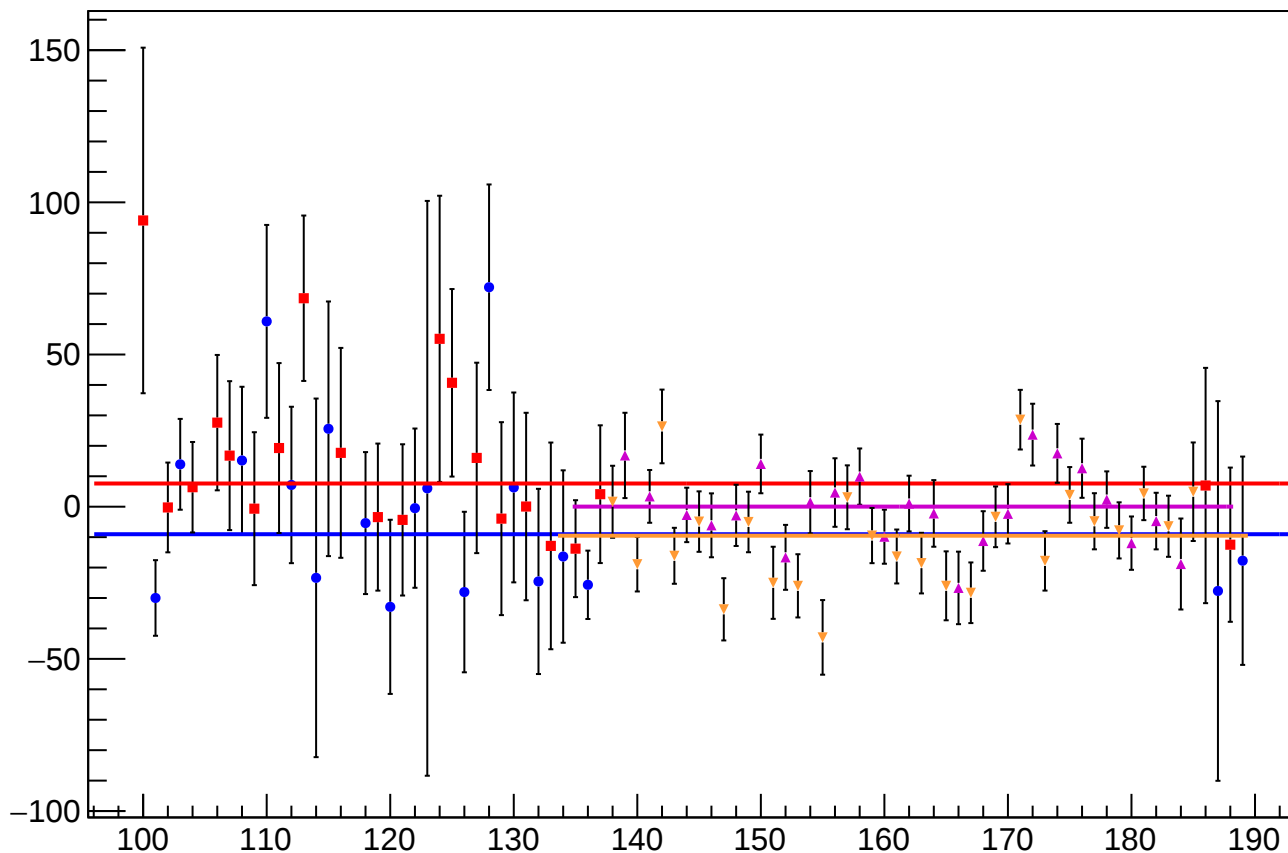
Right: 6786.838 $\pm$ 1.261 χ^2 /NDF: 2005087.3/39

In: 6614.595 $\pm$ 0.958 χ^2 /NDF: 1223633.8/41

Out: 6544.740 $\pm$ 0.915 χ^2 /NDF: 1769957.2/45

All: 6578.082 $\pm$ 0.662 χ^2 /NDF: 2996371.1/87

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.042 $\pm$ 5.316 χ^2/NDF : 22.3/18

Left Out: -9.528 $\pm$ 2.015 χ^2/NDF : 59.6/24

Right Out: 7.619 $\pm$ 5.338 χ^2/NDF : 14.7/20

Left In: 0.027 $\pm$ 2.080 χ^2/NDF : 29.9/22

Left: -4.902 $\pm$ 1.447 χ^2/NDF : 100.3/47

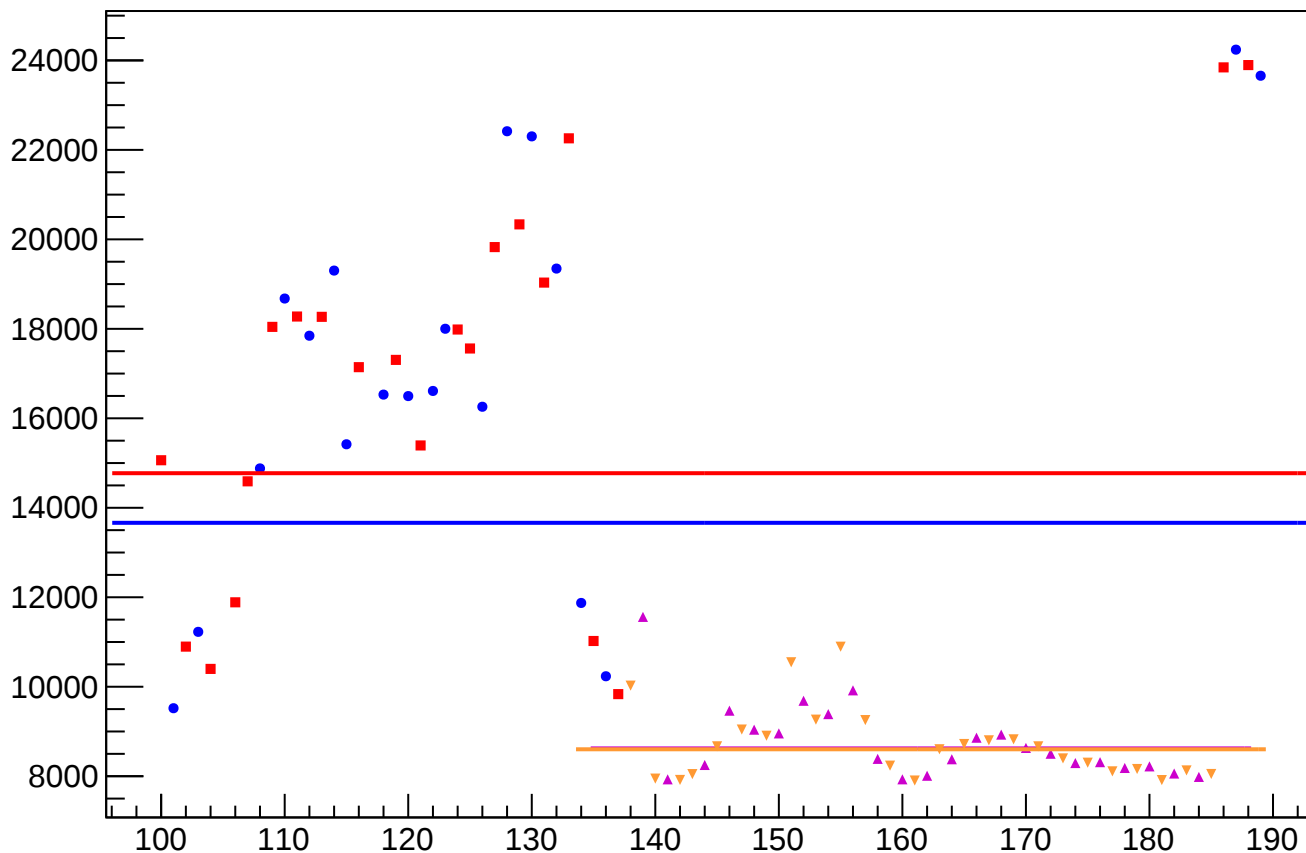
Right: -0.746 $\pm$ 3.767 χ^2/NDF : 41.8/39

In: -1.177 $\pm$ 1.937 χ^2/NDF : 54.7/41

Out: -7.390 $\pm$ 1.885 χ^2/NDF : 83.2/45

All: -4.367 $\pm$ 1.351 χ^2/NDF : 143.2/87

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13664.063+/-3.759 χ^2/NDF : 1284658.8/18

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

Right Out: 14773.087+/-3.775 χ^2/NDF : 1326864.7/20

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

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

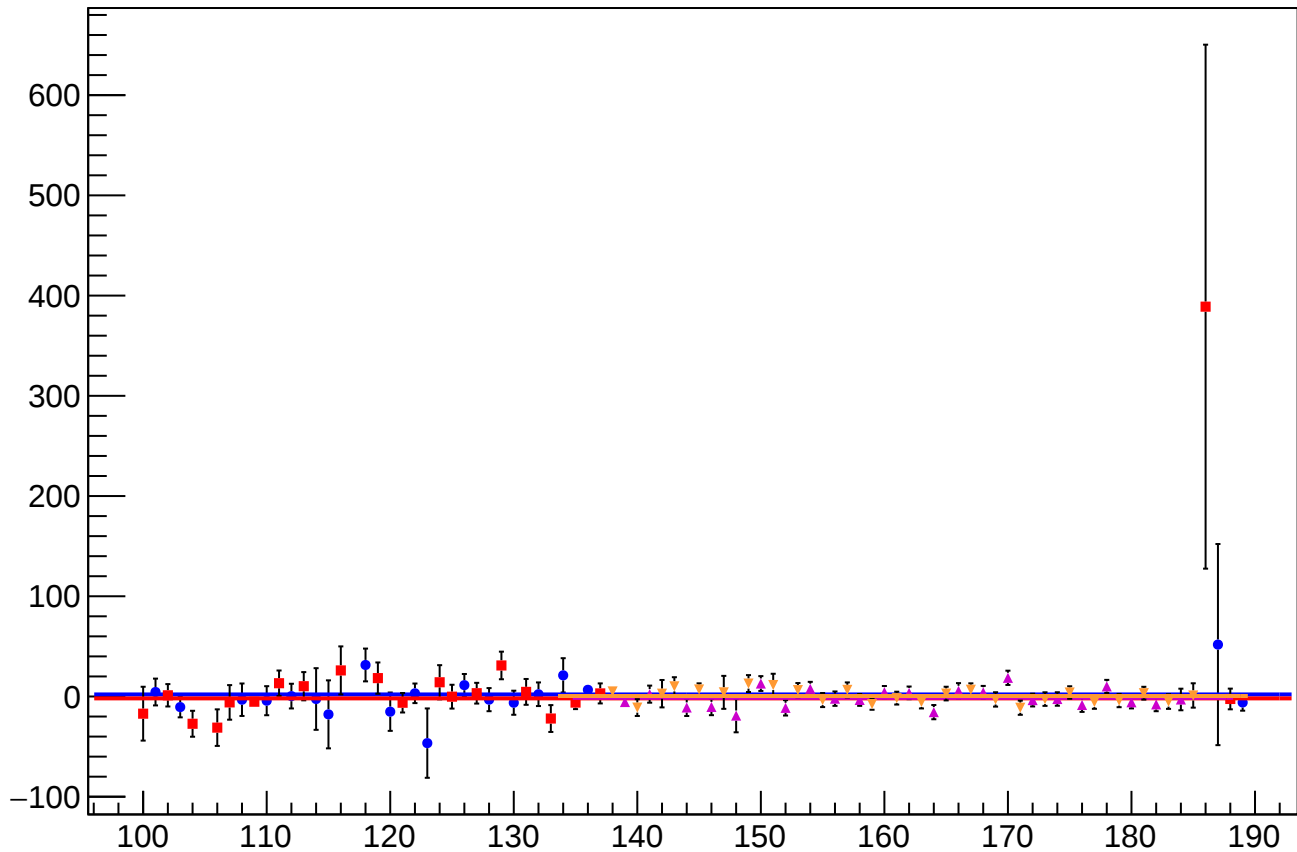
Right: 14216.235+/-2.664 χ^2/NDF : 2654865.1/39

In: 9291.359+/-1.370 χ^2/NDF : 3075934.5/41

Out: 9371.678+/-1.333 χ^2/NDF : 3915130.9/45

All: 9332.601+/-0.955 χ^2/NDF : 6992831.4/87

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: -1.890 ± 2.378 $\chi^2/\text{NDF}: 25.0/20$

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

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

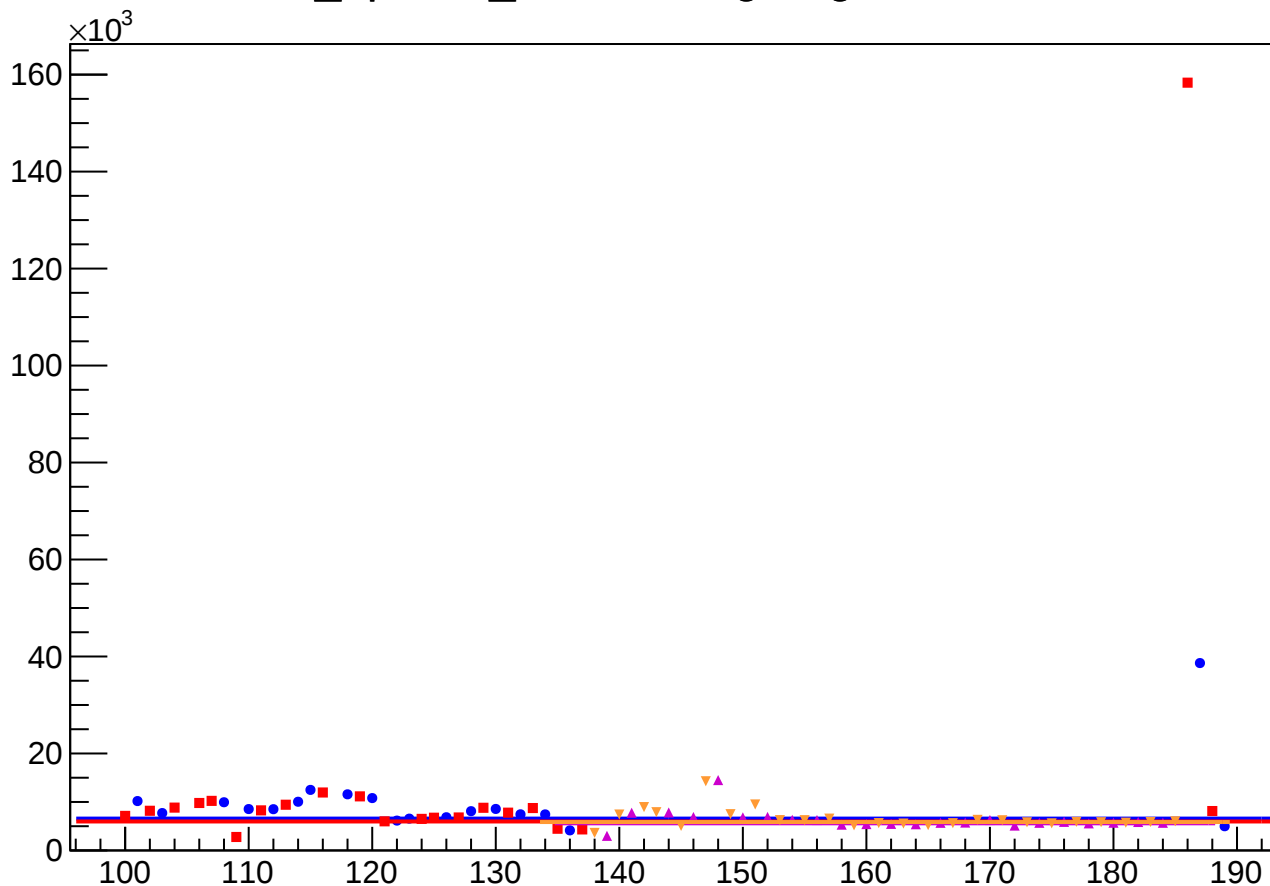
Right: -0.111 ± 1.759 $\chi^2/\text{NDF}: 39.4/39$

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

Out: -0.142 ± 1.219 $\chi^2/\text{NDF}: 45.3/45$

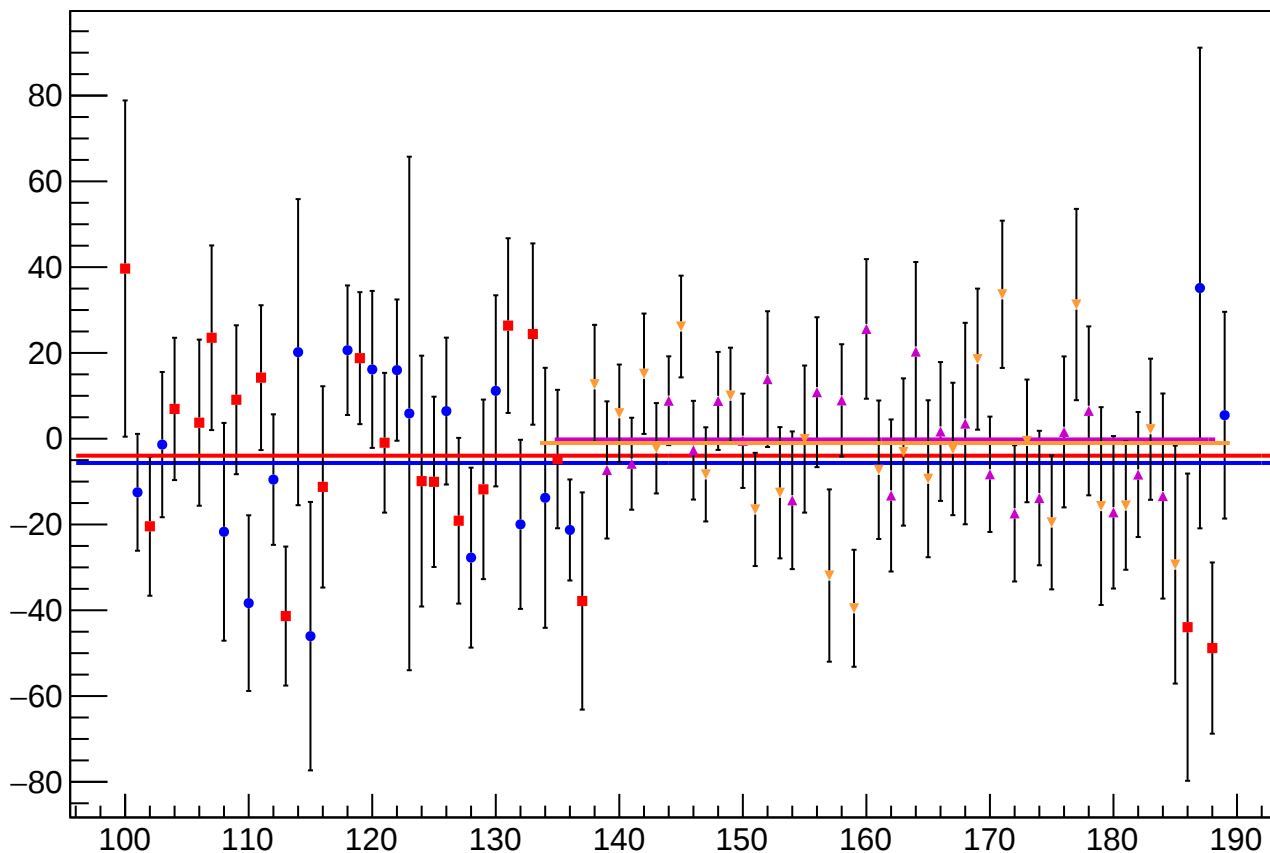
All: -0.342 ± 0.869 $\chi^2/\text{NDF}: 92.8/87$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6569.619 $\pm$ 1.847	χ^2/NDF : 1676544.3/18	Left: 5726.555 $\pm$ 0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2/NDF : 1691344.1/24	Right: 6245.518 $\pm$ 1.243	χ^2/NDF : 4785960.7/39
Right Out: 5976.924 $\pm$ 1.682	χ^2/NDF : 3053118.3/20	In: 5815.425 $\pm$ 0.876	χ^2/NDF : 3981305.9/41
Left In: 5596.879 $\pm$ 0.994	χ^2/NDF : 2089750.1/22	Out: 5889.706 $\pm$ 0.862	χ^2/NDF : 4748110.8/45
		All: 5853.155 $\pm$ 0.614	χ^2/NDF : 8733072.6/87

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.659 ± 4.433 χ^2/NDF : 17.0/18

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

Right Out: -3.957 ± 4.250 χ^2/NDF : 26.9/20

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

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

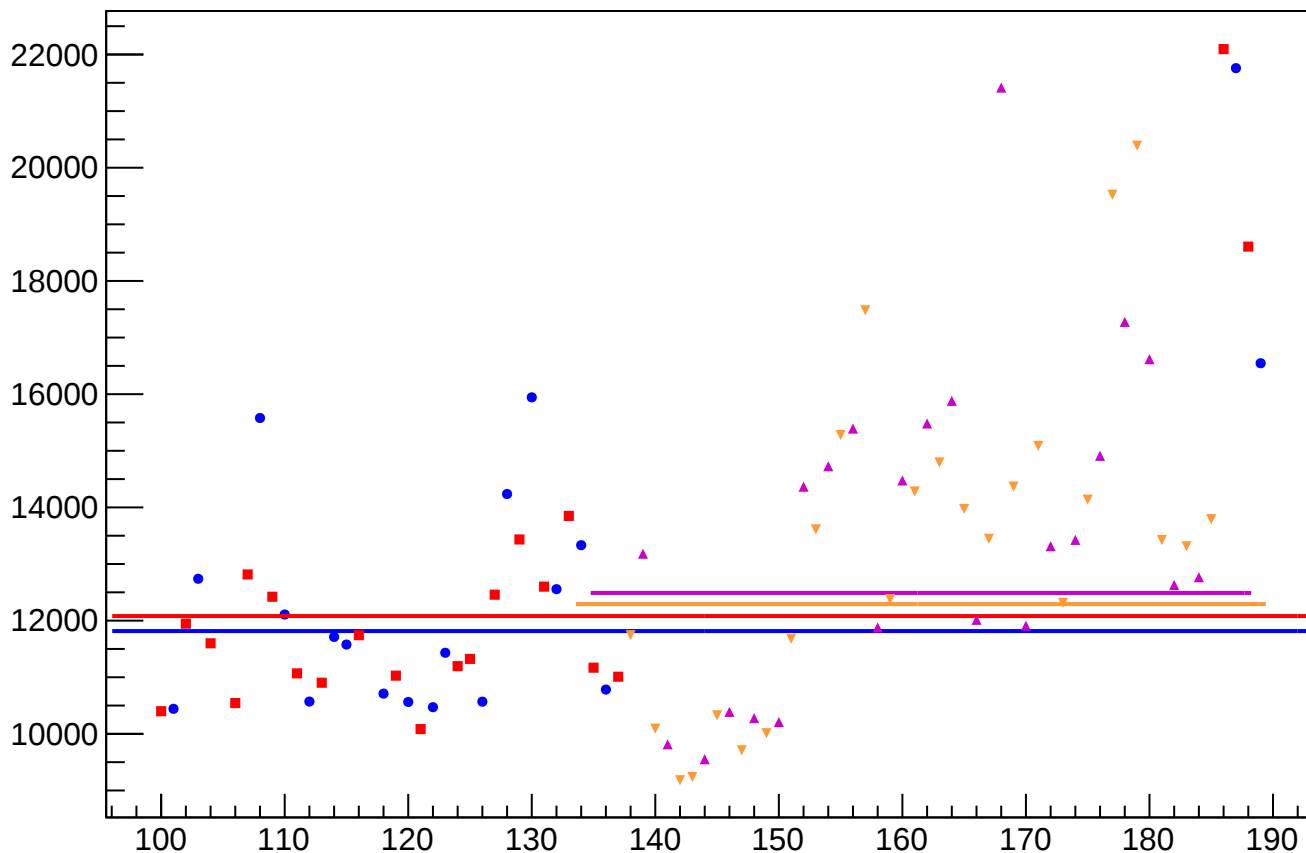
Right: -4.772 ± 3.068 χ^2/NDF : 43.9/39

In: -1.948 ± 2.522 χ^2/NDF : 30.4/41

Out: -1.963 ± 2.419 χ^2/NDF : 60.6/45

All: -1.956 ± 1.746 χ^2/NDF : 91.1/87

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: 12081.147+/-3.005 χ^2/NDF : 487993.1/20

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

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

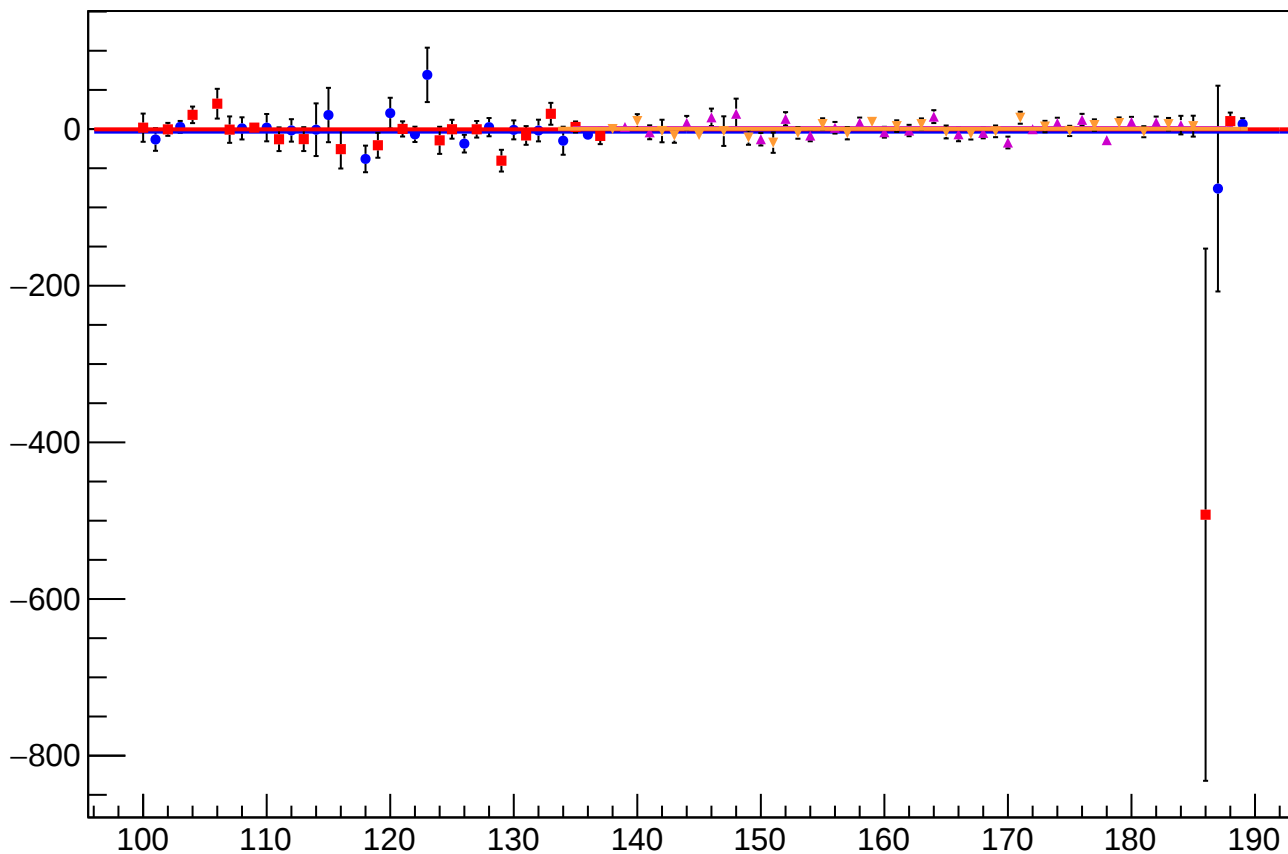
Right: 11954.003+/-2.169 χ^2/NDF : 878552.9/39

In: 12270.895+/-1.784 χ^2/NDF :1772493.9/41

Out: 12224.093+/-1.710 χ^2/NDF :1993888.6/45

All: 12246.512+/-1.234 χ^2/NDF : 3766741.2/86

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -3.281 ± 2.605 $\chi^2/\text{NDF}: 17.1/18$

Left Out: 0.410 ± 1.435 $\chi^2/\text{NDF}: 19.3/24$

Right Out: -0.342 ± 2.372 $\chi^2/\text{NDF}: 25.6/20$

Left In: 1.278 ± 1.386 $\chi^2/\text{NDF}: 34.0/22$

Left: 0.859 ± 0.997 $\chi^2/\text{NDF}: 53.5/47$

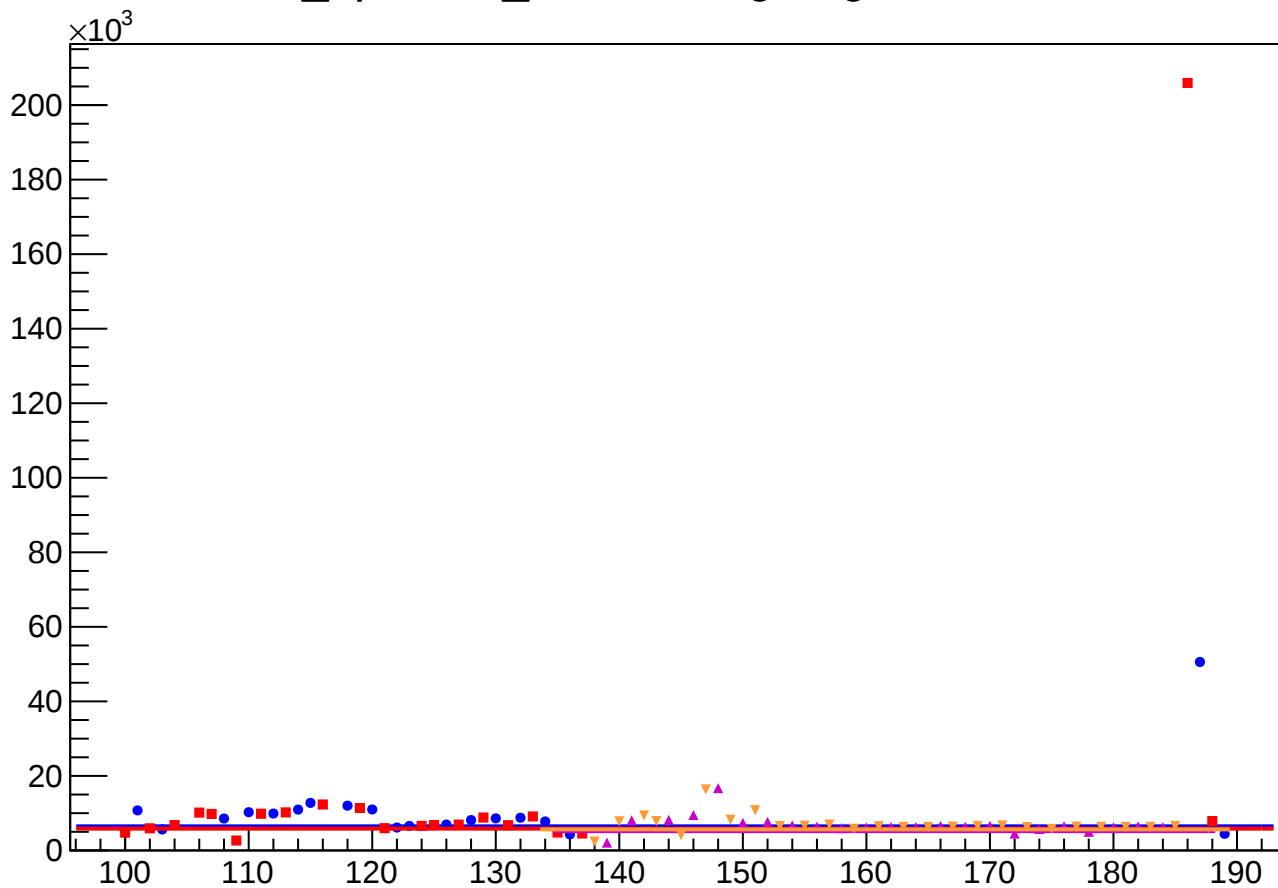
Right: -1.674 ± 1.754 $\chi^2/\text{NDF}: 43.4/39$

In: 0.272 ± 1.223 $\chi^2/\text{NDF}: 53.4/41$

Out: 0.209 ± 1.228 $\chi^2/\text{NDF}: 45.0/45$

All: 0.241 ± 0.867 $\chi^2/\text{NDF}: 98.4/87$

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: 5857.425 $\pm$ 1.677 χ^2/NDF : 2932441.2/20

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

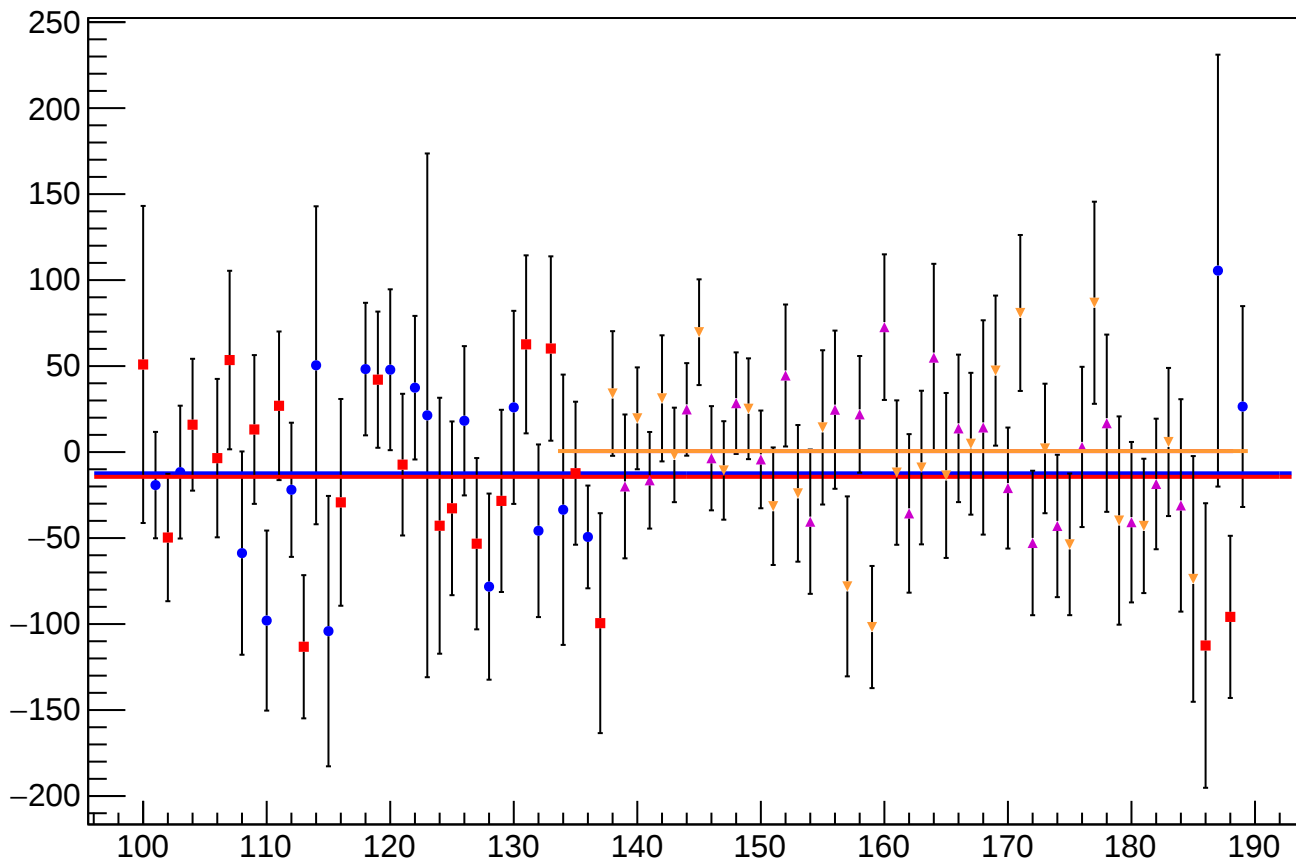
Right: 6134.622 $\pm$ 1.240 χ^2/NDF : 4826839.1/39

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

Out: 5709.676 $\pm$ 0.868 χ^2/NDF : 7067161.7/45

All: 5586.873 $\pm$ 0.613 χ^2/NDF : 14672497.1/8

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: -14.393 $\pm$ 10.545 χ^2/NDF : 24.2/20

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

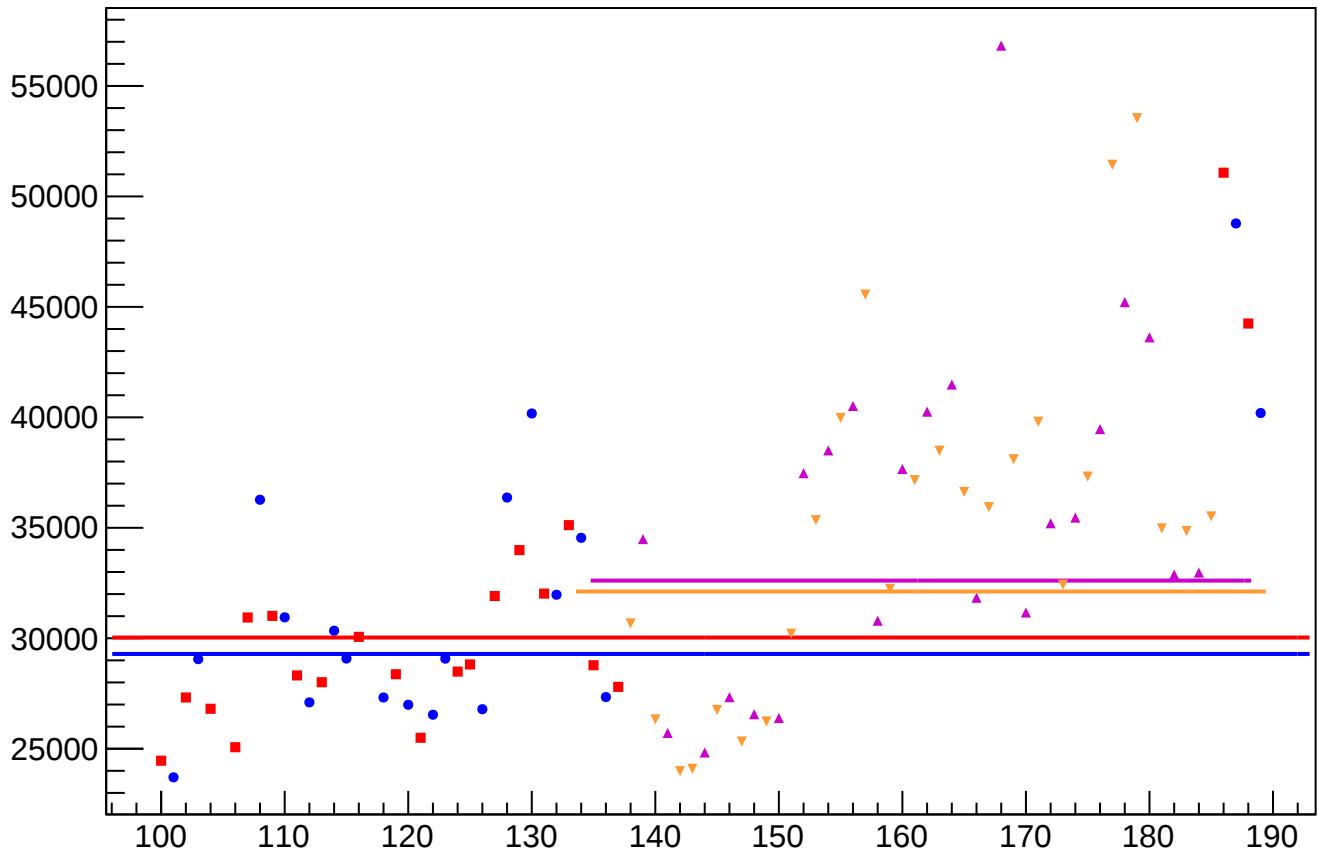
Right: -13.415 $\pm$ 7.609 χ^2/NDF : 40.8/39

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

Out: -4.619 $\pm$ 6.214 χ^2/NDF : 56.5/45

All: -4.284 $\pm$ 4.484 χ^2/NDF : 88.3/87

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29289.703 ± 7.773 $\chi^2/\text{NDF}: 377690.7/18$

Left Out: 32117.184 ± 5.438 $\chi^2/\text{NDF}: 1536740.0/24$

Right Out: 30033.362 ± 7.456 $\chi^2/\text{NDF}: 445184.1/20$

Left In: 32610.108 ± 5.667 $\chi^2/\text{NDF}: 1398475.8/22$

Left: 32353.483 ± 3.924 $\chi^2/\text{NDF}: 2939154.5/47$

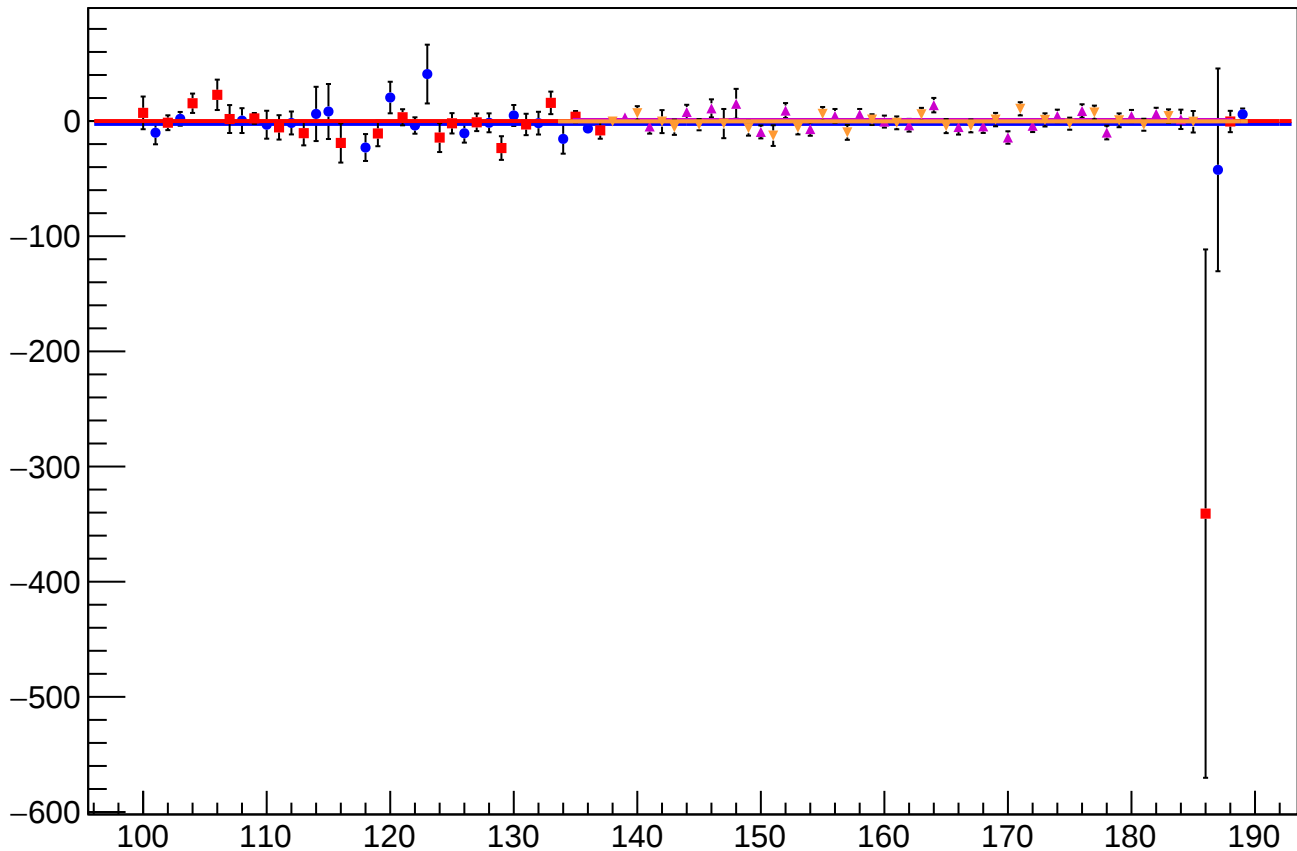
Right: 29676.982 ± 5.381 $\chi^2/\text{NDF}: 827642.0/39$

In: 31457.626 ± 4.579 $\chi^2/\text{NDF}: 1895318.6/41$

Out: 31393.611 ± 4.394 $\chi^2/\text{NDF}: 2032910.6/45$

All: 31424.295 ± 3.170 $\chi^2/\text{NDF}: 3928331.0/8$

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: 0.002 ± 1.856 χ^2/NDF : 23.9/20

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

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

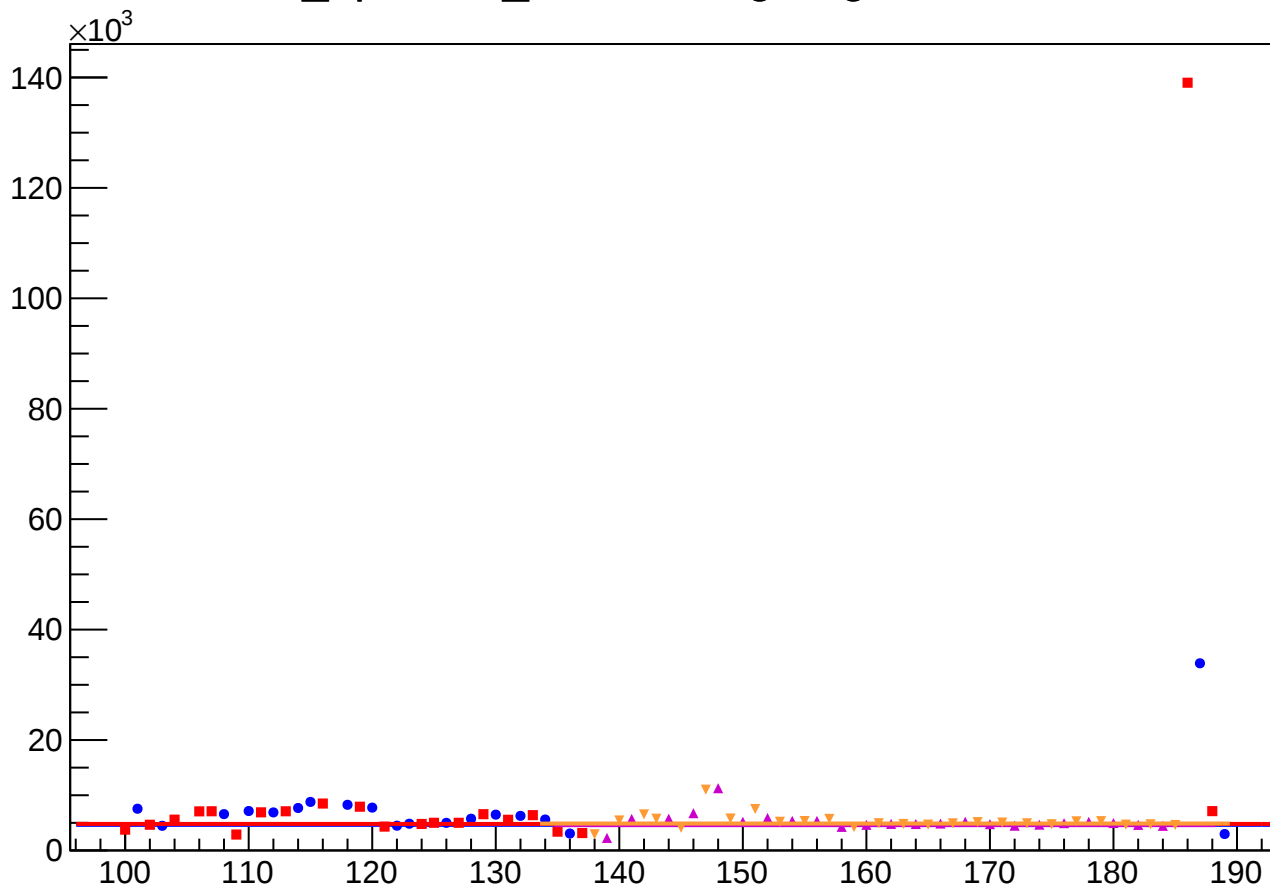
Right: -1.227 ± 1.316 χ^2/NDF : 42.1/39

In: -0.013 ± 0.981 χ^2/NDF : 55.9/41

Out: -0.182 ± 0.991 χ^2/NDF : 41.9/45

All: -0.097 ± 0.697 χ^2/NDF : 97.8/87

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4638.901 ± 1.320 $\chi^2/\text{NDF}: 1877643.5/18$

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

Right Out: 4804.415 ± 1.312 $\chi^2/\text{NDF}: 2132484.6/20$

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

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

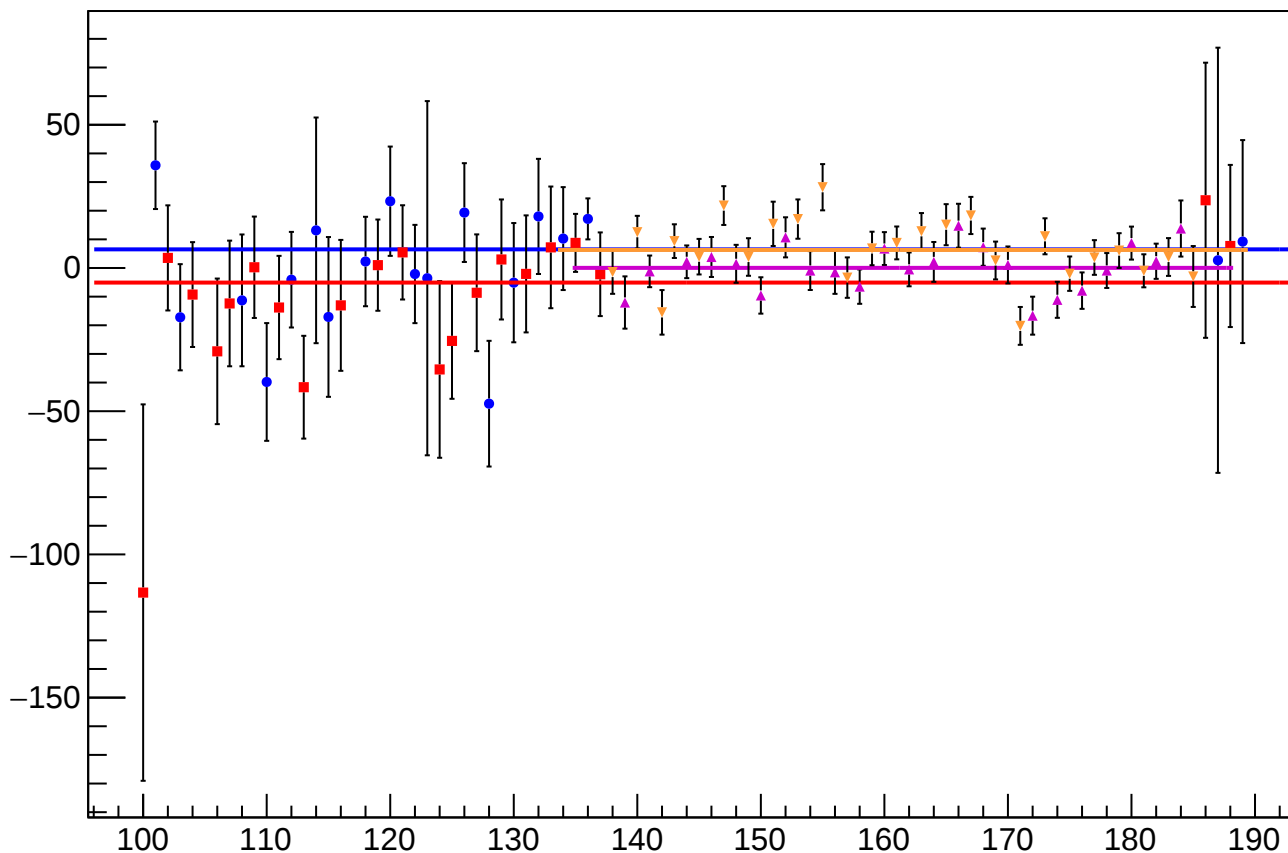
Right: 4722.156 ± 0.931 $\chi^2/\text{NDF}: 4018036.2/39$

In: 4597.866 ± 0.694 $\chi^2/\text{NDF}: 4357659.9/41$

Out: 4848.797 ± 0.701 $\chi^2/\text{NDF}: 3645572.0/45$

All: 4722.056 ± 0.493 $\chi^2/\text{NDF}: 8067942.3/87$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.506 $\pm$ 4.040 χ^2/NDF : 22.8/18

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

Right Out: -5.093 $\pm$ 4.165 χ^2/NDF : 14.1/20

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

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

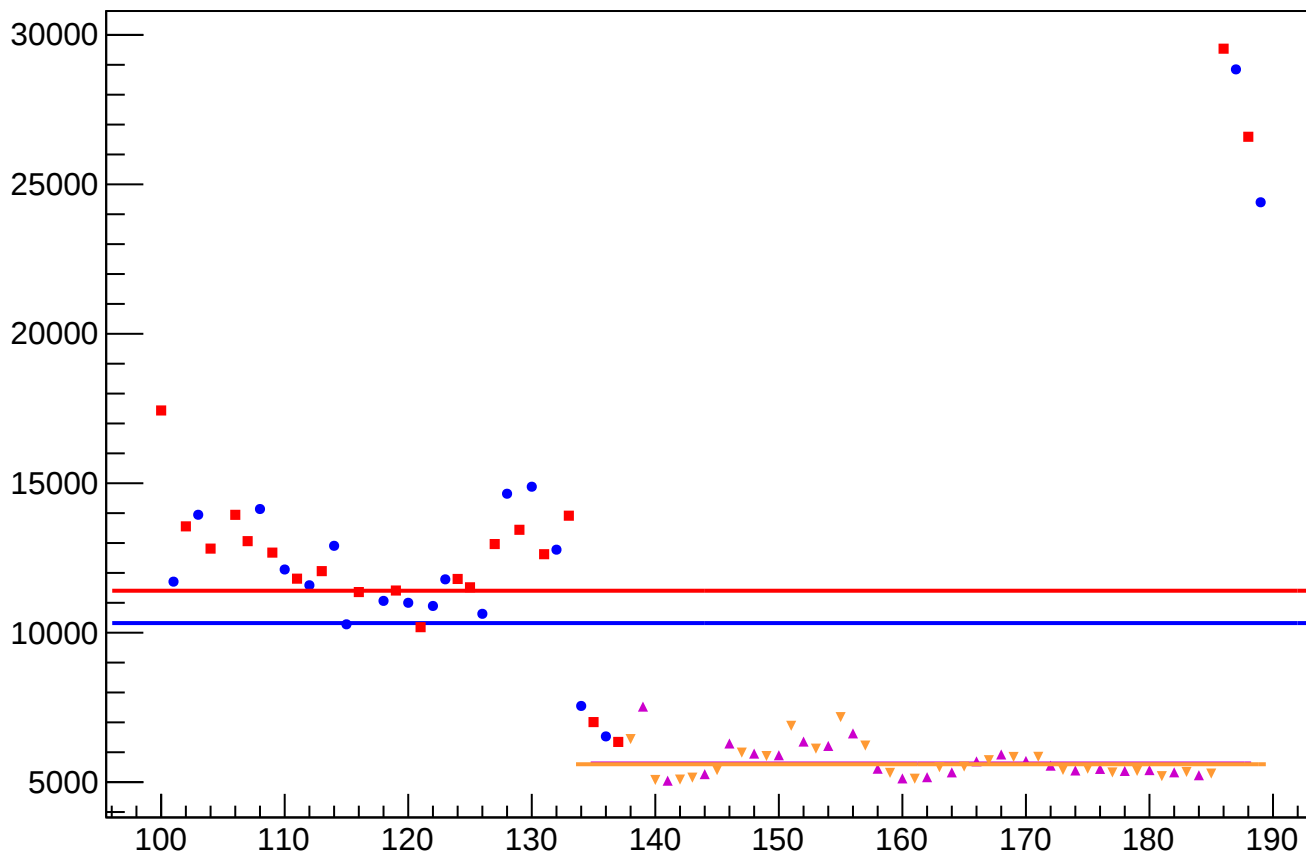
Right: 0.884 $\pm$ 2.900 χ^2/NDF : 40.9/39

In: 0.700 $\pm$ 1.287 χ^2/NDF : 55.1/41

Out: 5.272 $\pm$ 1.252 χ^2/NDF : 77.6/45

All: 3.050 $\pm$ 0.897 χ^2/NDF : 139.2/87

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10321.631+/-2.856 χ^2/NDF : 1446760.2/18

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

Right Out: 11404.061+/-2.945 χ^2/NDF : 1656246.0/20

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

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

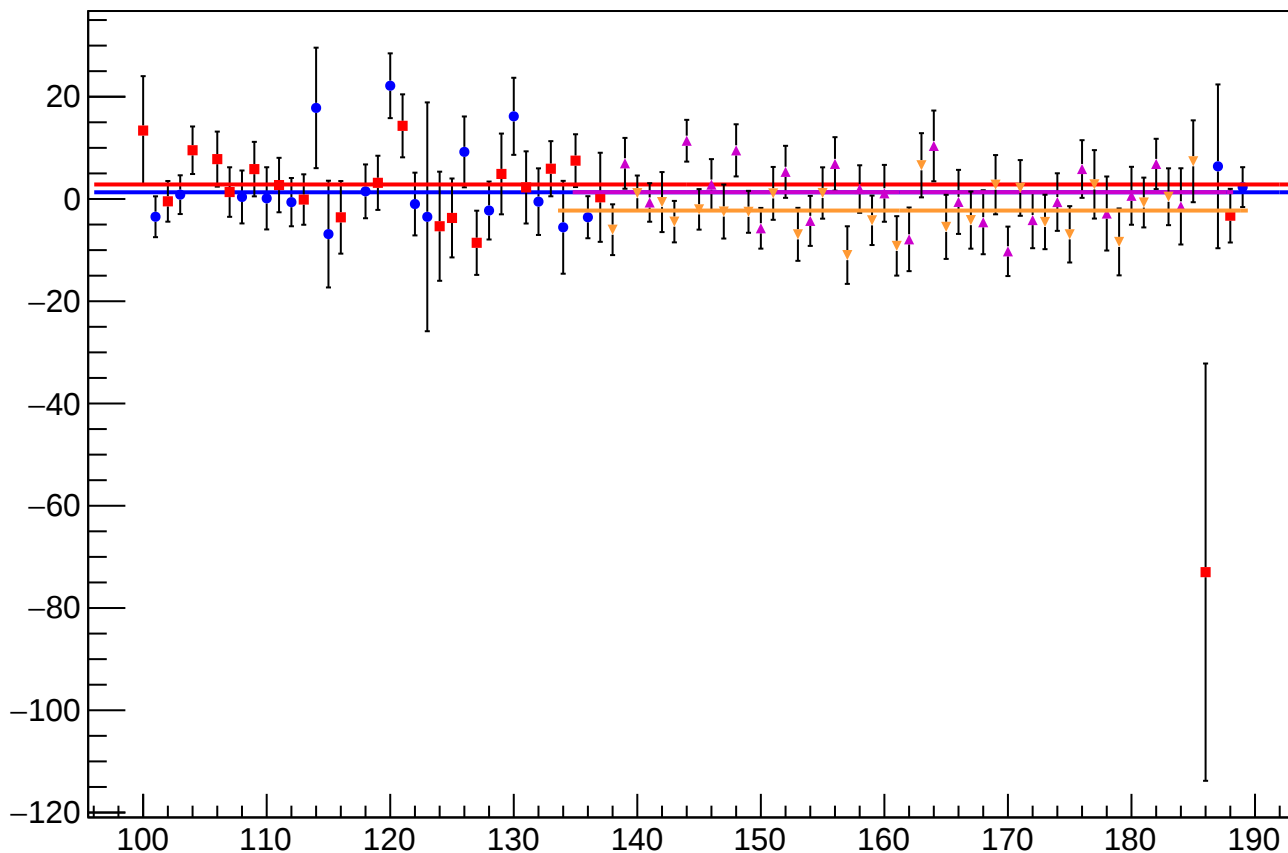
Right: 10846.318+/-2.050 χ^2/NDF : 3172614.8/39

In: 6101.867+/-0.910 χ^2/NDF : 4148294.7/41

Out: 6123.271+/-0.885 χ^2/NDF : 5474189.4/45

All: 6112.865+/-0.635 χ^2/NDF : 9622768.3/87

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: 2.839 ± 1.293 $\chi^2/\text{NDF}: 20.4/20$

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

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

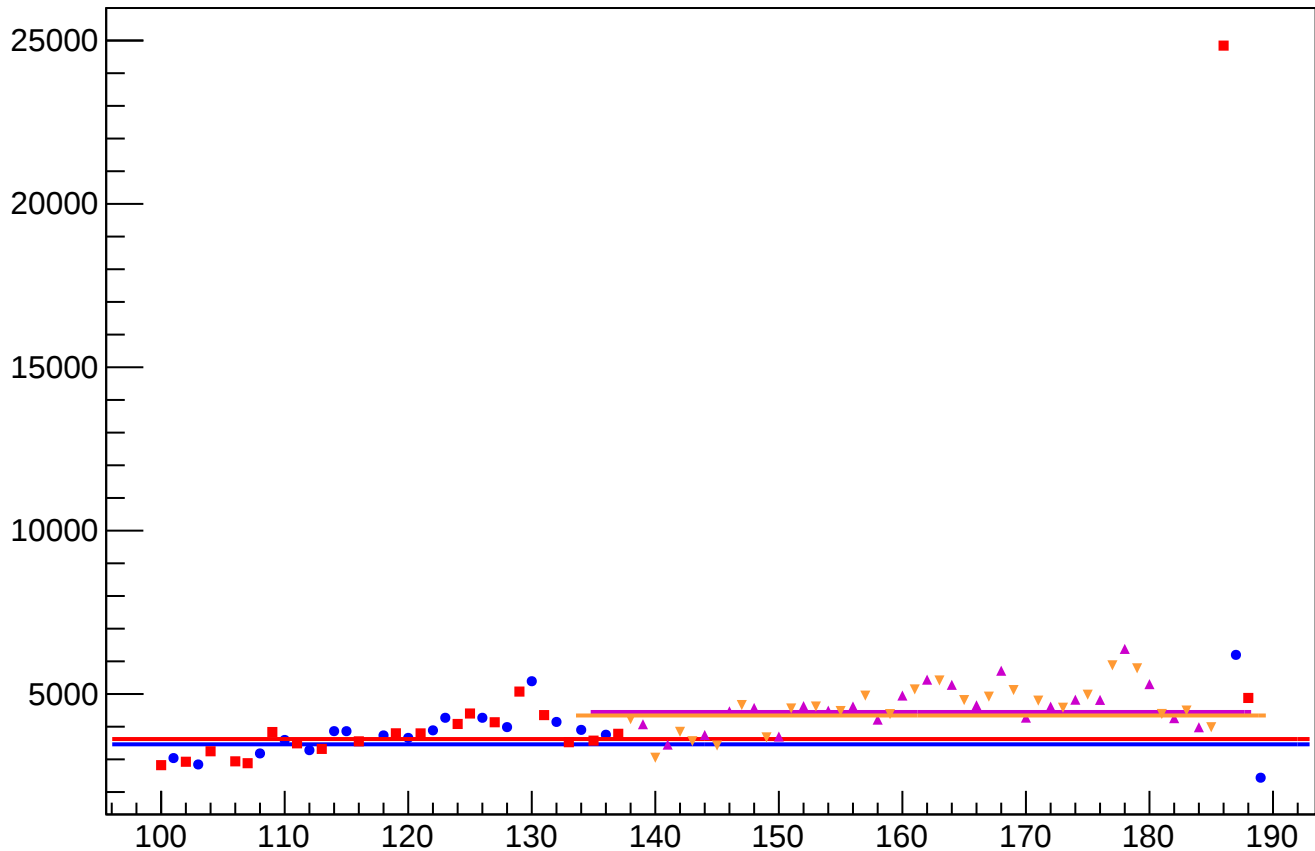
Right: 2.086 ± 0.921 $\chi^2/\text{NDF}: 44.1/39$

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

Out: -0.282 ± 0.806 $\chi^2/\text{NDF}: 45.4/45$

All: 0.492 ± 0.580 $\chi^2/\text{NDF}: 101.0/87$

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: 3622.119+/-0.915 χ^2/NDF : 964099.0/20

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

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

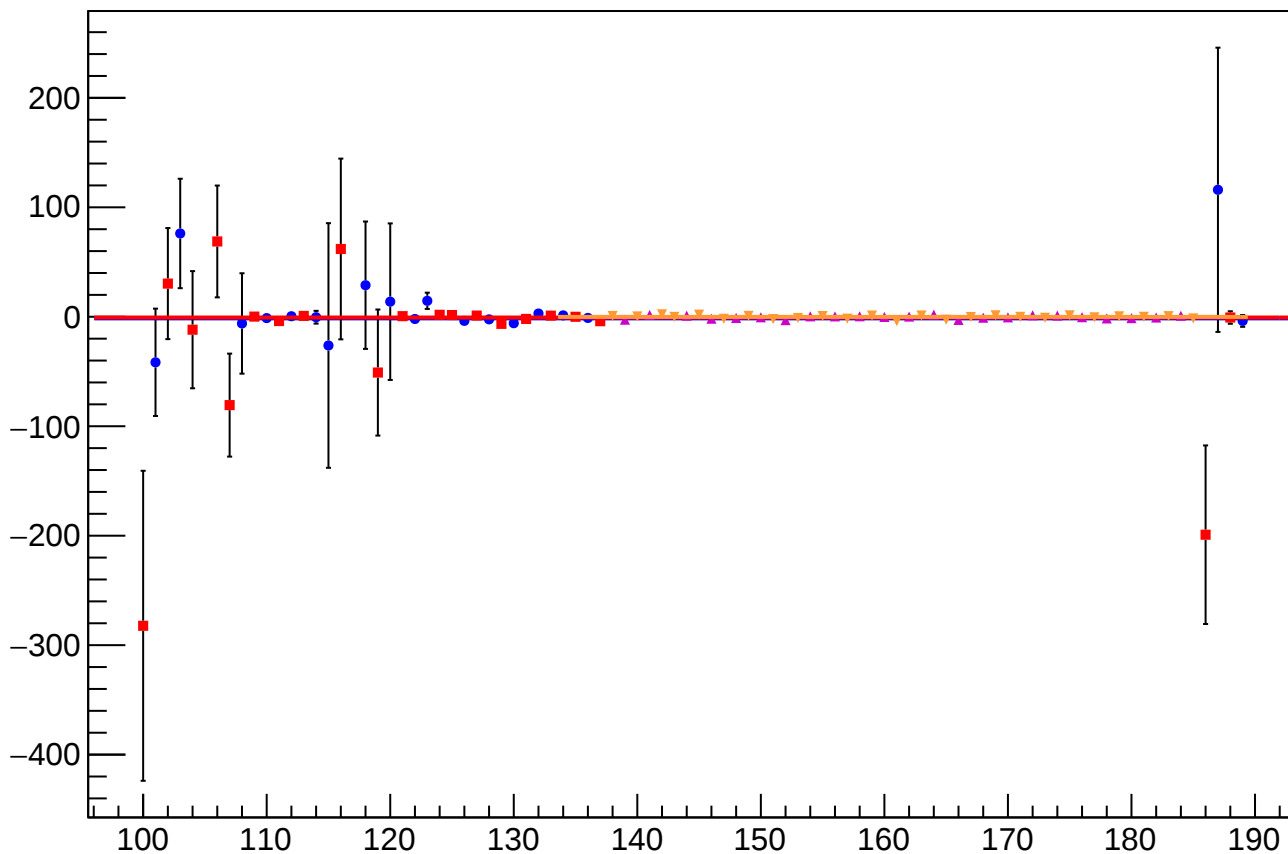
Right: 3542.270+/-0.651 χ^2/NDF : 1498107.6/39

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

Out: 4062.964+/-0.570 χ^2/NDF : 2336908.6/45

All: 4056.266+/-0.410 χ^2/NDF : 4226912.6/87

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: -0.679 ± 0.708 χ^2/NDF : 27.4/20

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

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

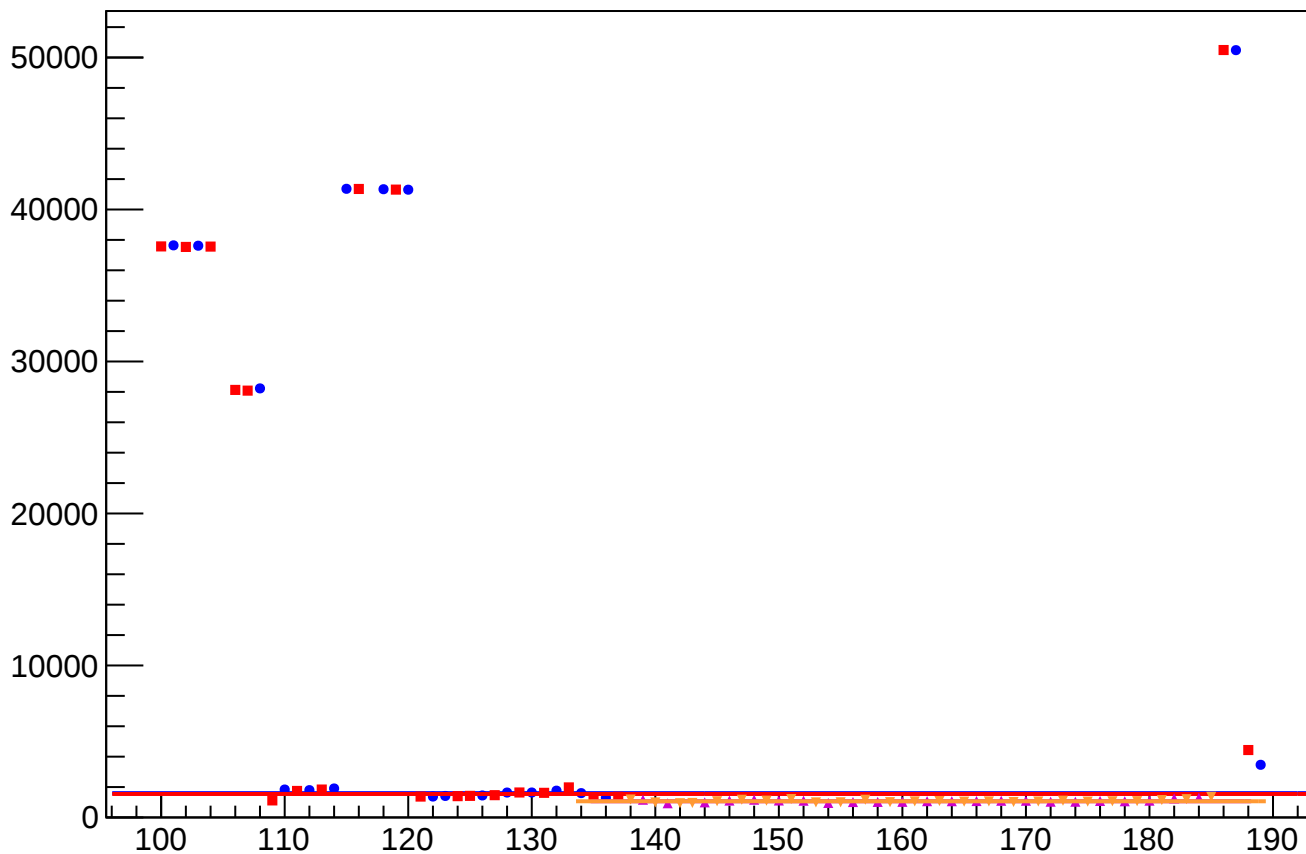
Right: -1.042 ± 0.513 χ^2/NDF : 45.7/39

In: -0.386 ± 0.243 χ^2/NDF : 47.2/41

Out: -0.156 ± 0.235 χ^2/NDF : 62.4/45

All: -0.267 ± 0.169 χ^2/NDF : 110.1/87

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1598.180+/-0.526 χ^2/NDF : 5280355.9/18

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

Right Out: 1545.246+/-0.500 χ^2/NDF : 6136570.9/20

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

Left: 1065.454 ± 0.126 χ^2/NDF : 350781.3/47

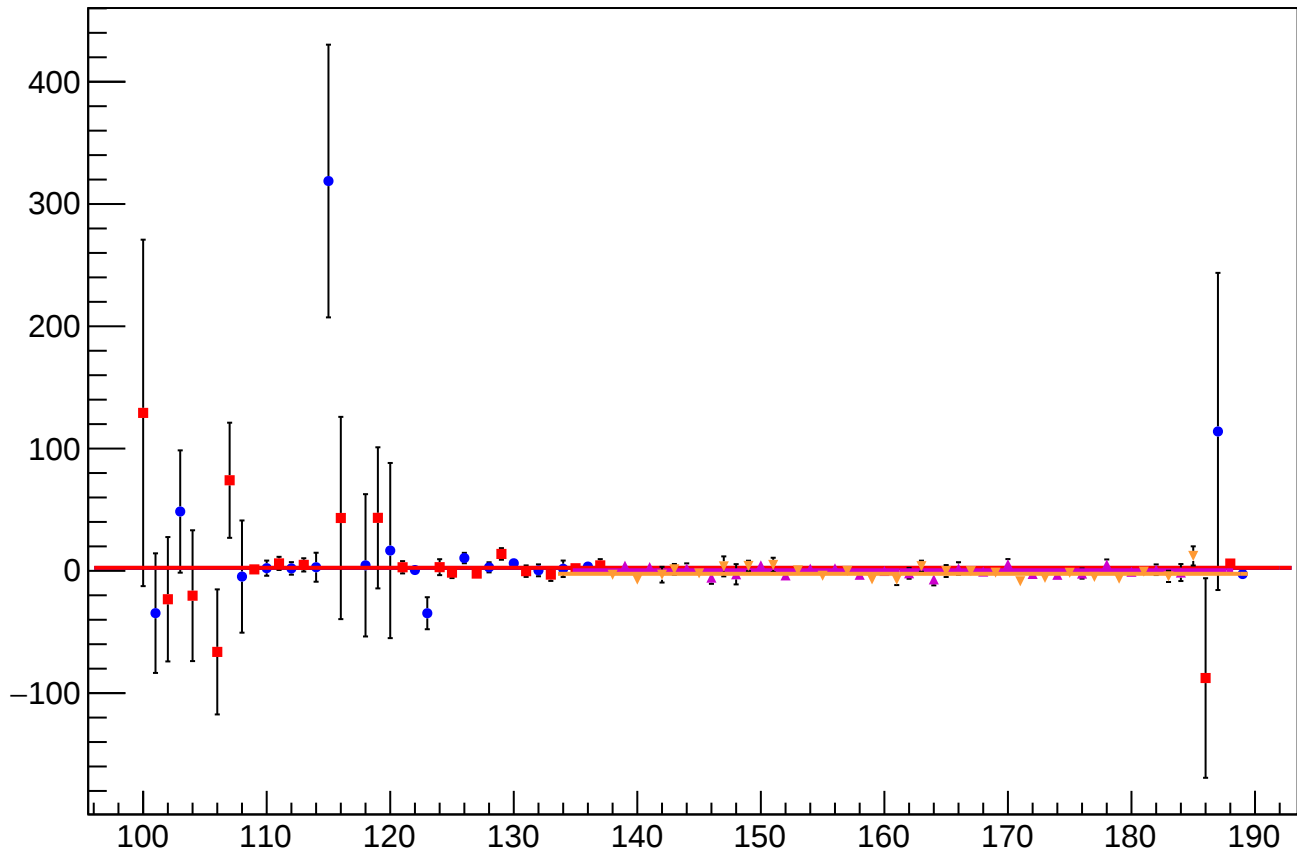
Right: 1570.403+/-0.362 χ^2/NDF : 11422247.1/39

In: 1123.019+/-0.172 χ^2/NDF :6359135.2/41

Out: 1117.678+/-0.166 χ^2/NDF :7143987.9/45

All: 1120.259 ± 0.119 χ^2/NDF : 13503622.9/8

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 2.365+/-1.224 χ^2/NDF : 25.9/18

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

Right Out: 2.508+/-1.175 χ^2/NDF : 18.7/20

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

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

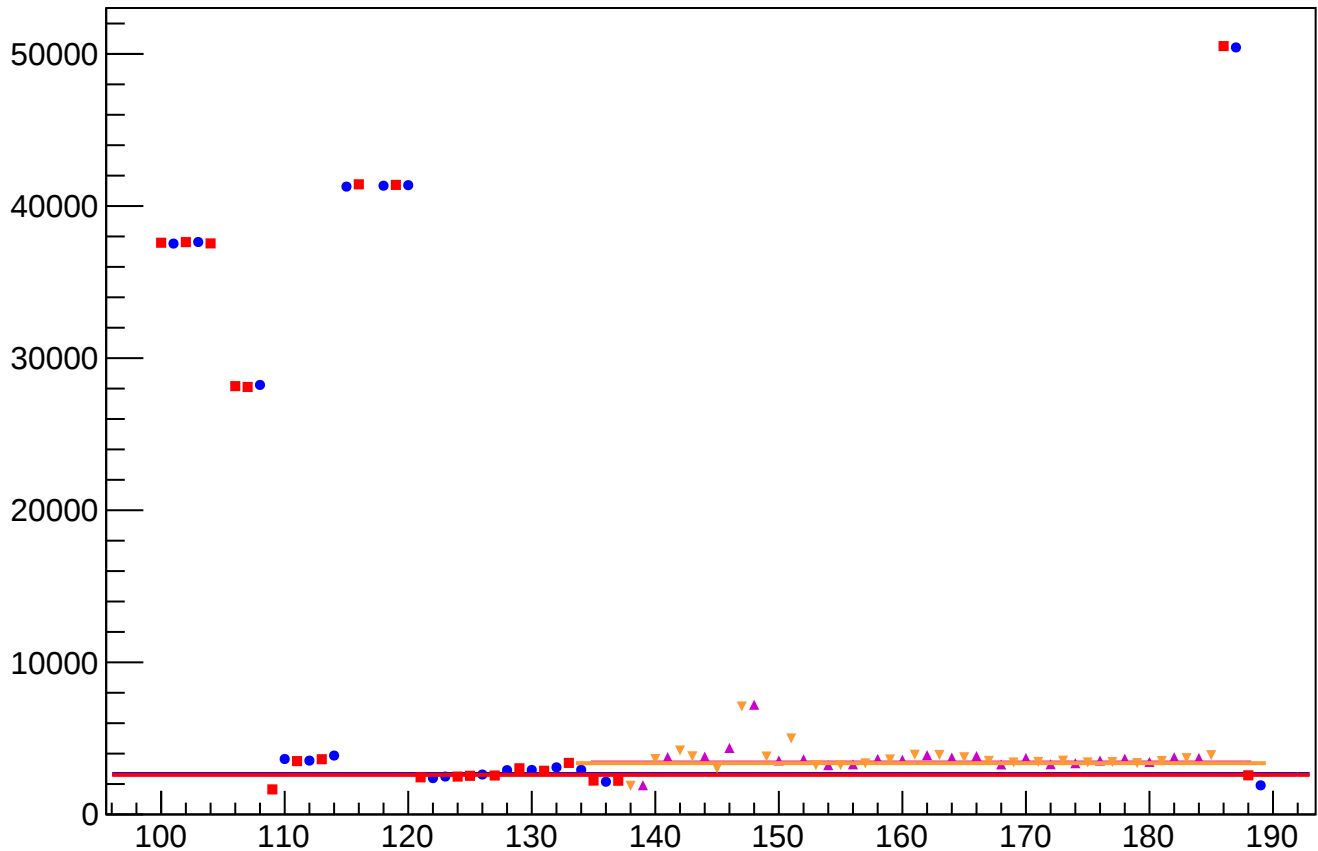
Right: 2.439+/-0.848 χ^2/NDF : 44.6/39

In: 1.078+/-0.694 χ^2/NDF : 43.0/41

Out: -0.832+/-0.667 χ^2/NDF : 51.9/45

All: 0.085+/-0.481 χ^2/NDF : 98.8/87

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2659.830 ± 0.866 $\chi^2/\text{NDF}: 4977201.2/18$

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

Right Out: 2601.790 ± 0.831 $\chi^2/\text{NDF}: 5538042.6/20$

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

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

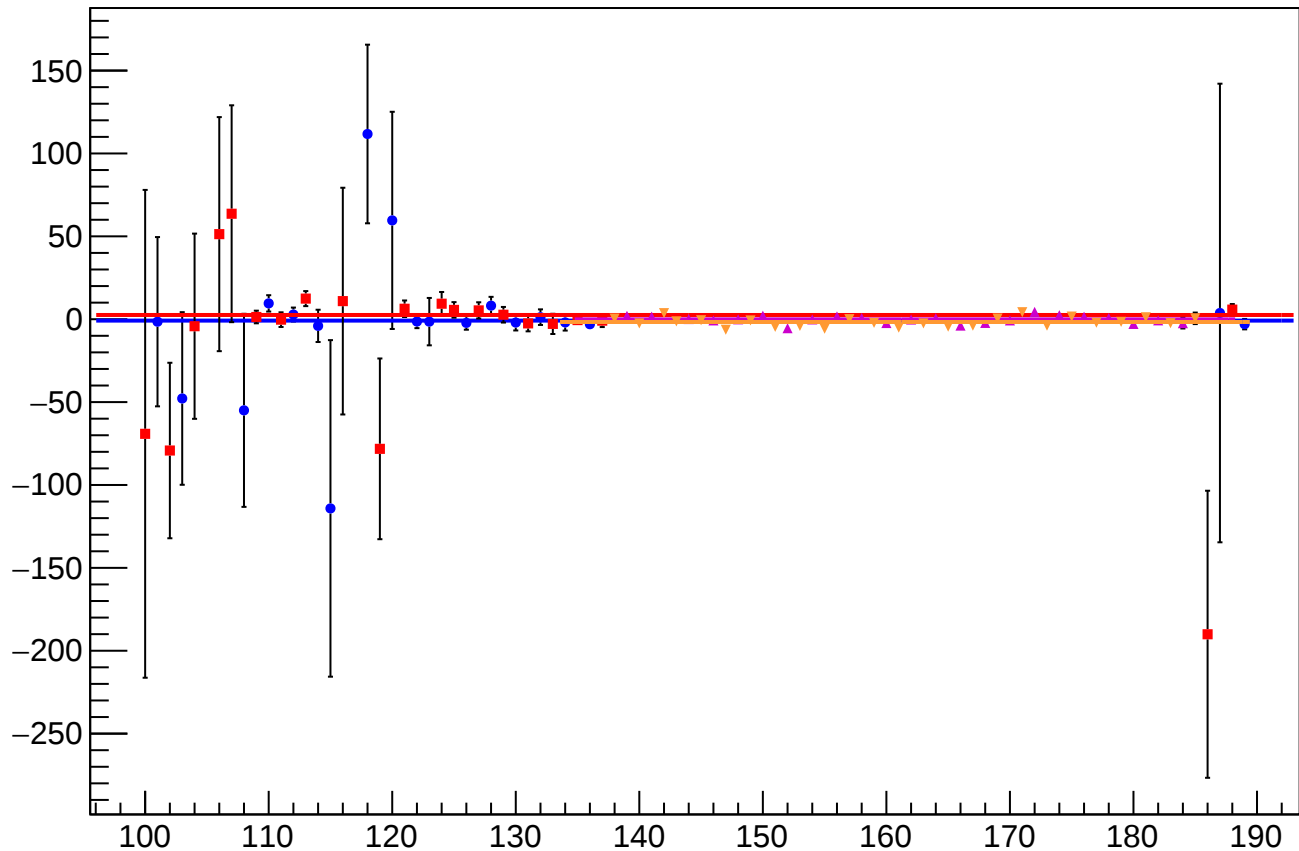
Right: 2629.614 ± 0.599 $\chi^2/\text{NDF}: 10517584.1/39$

In: 3170.074 ± 0.491 $\chi^2/\text{NDF}: 6923812.8/41$

Out: 3124.247 ± 0.472 $\chi^2/\text{NDF}: 7778785.6/45$

All: 3146.249 ± 0.340 $\chi^2/\text{NDF}: 14707129.0/8$

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: 2.560 ± 1.171 χ^2/NDF : 23.6/20

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

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

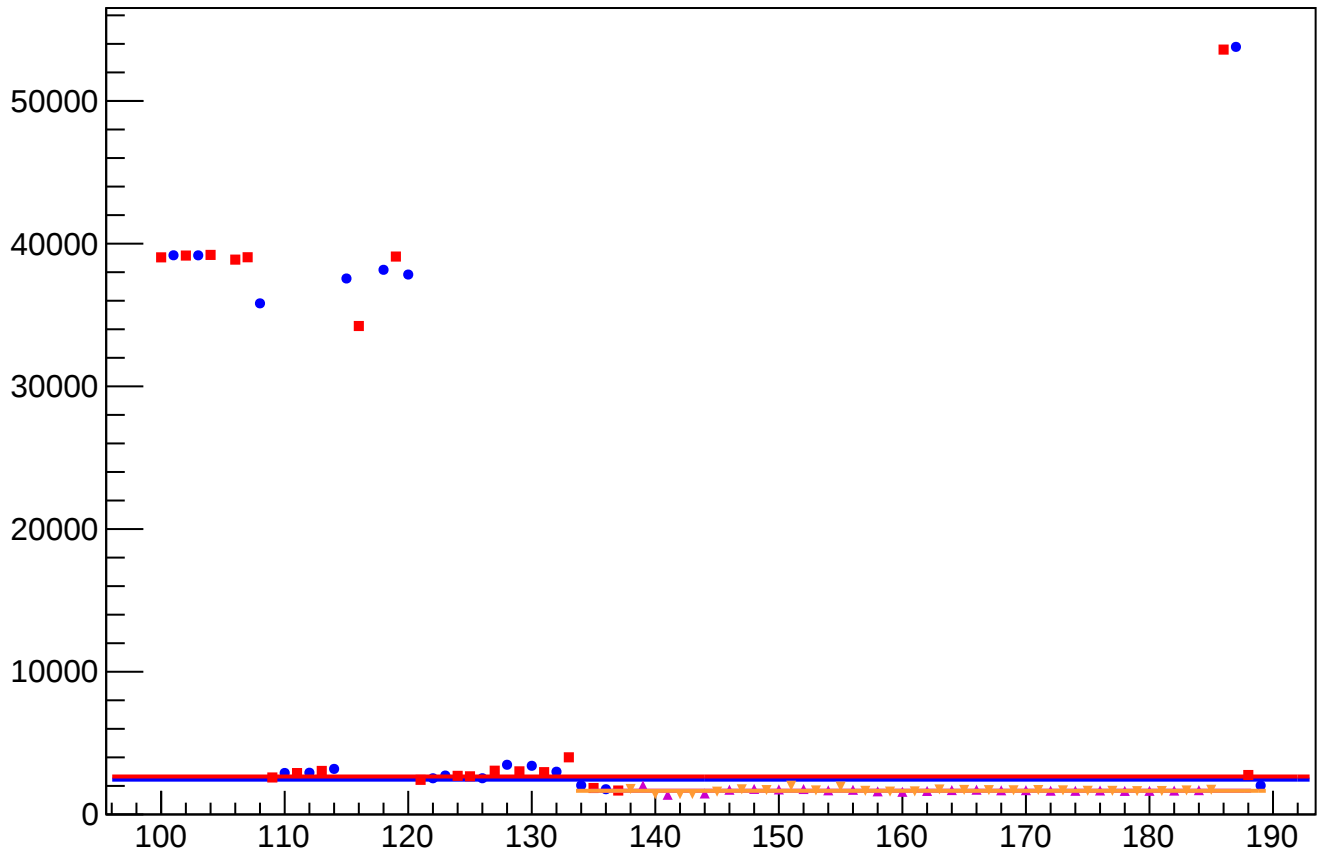
Right: 0.816 ± 0.817 χ^2/NDF : 46.4/39

In: -0.156 ± 0.378 χ^2/NDF : 47.1/41

Out: -1.254 ± 0.368 χ^2/NDF : 81.0/45

All: -0.719 ± 0.264 χ^2/NDF : 132.5/87

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: 2659.693 $\pm$ 0.828 χ^2 /NDF: 5556648.6/20

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

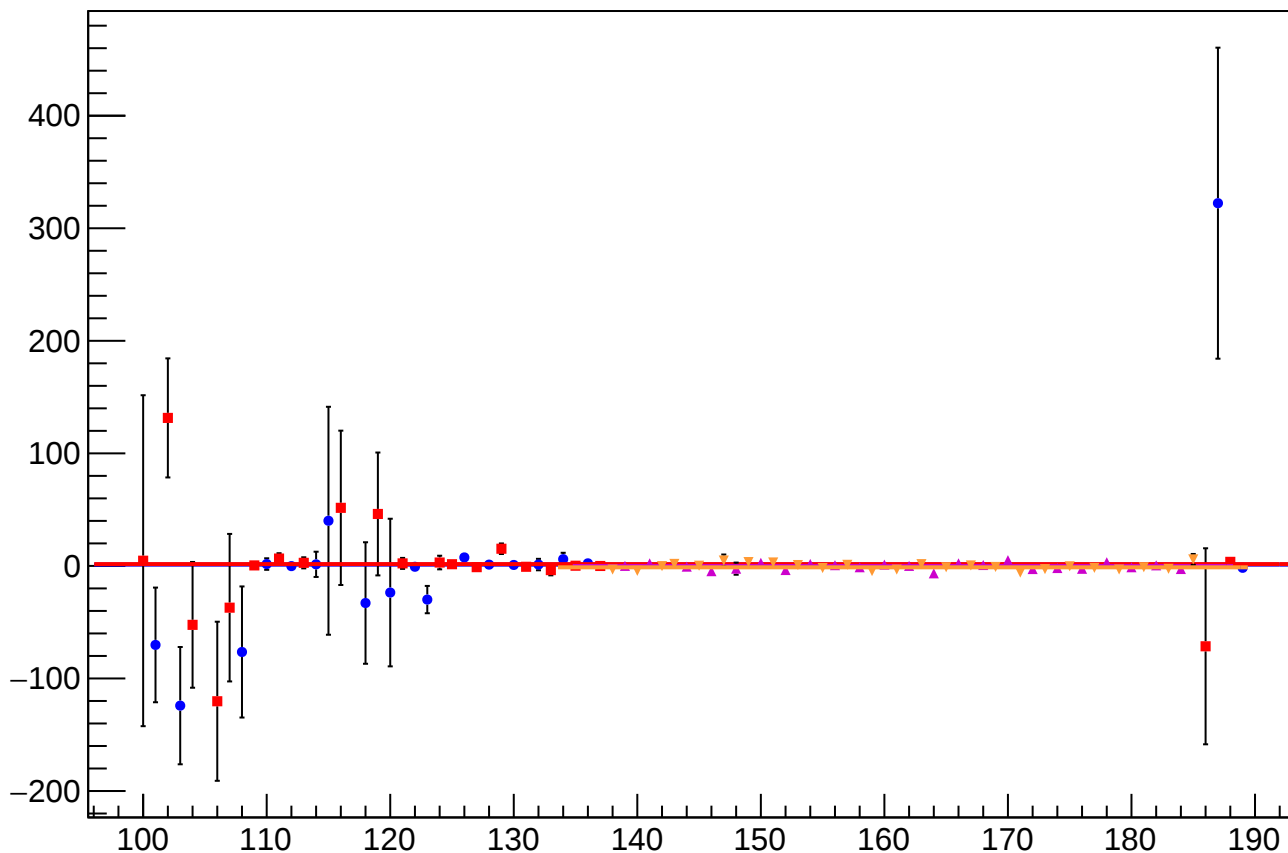
Right: 2546.137 $\pm$ 0.577 χ^2 /NDF: 10795314.3/39

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

Out: 1756.869 $\pm$ 0.260 χ^2 /NDF: 7098677.7/45

All: 1753.107 $\pm$ 0.187 χ^2 /NDF: 13304380.3/86

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.143 $\pm$ 1.049 χ^2 /NDF: 27.5/18

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

Right Out: 1.608 $\pm$ 1.007 χ^2 /NDF: 25.3/20

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

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

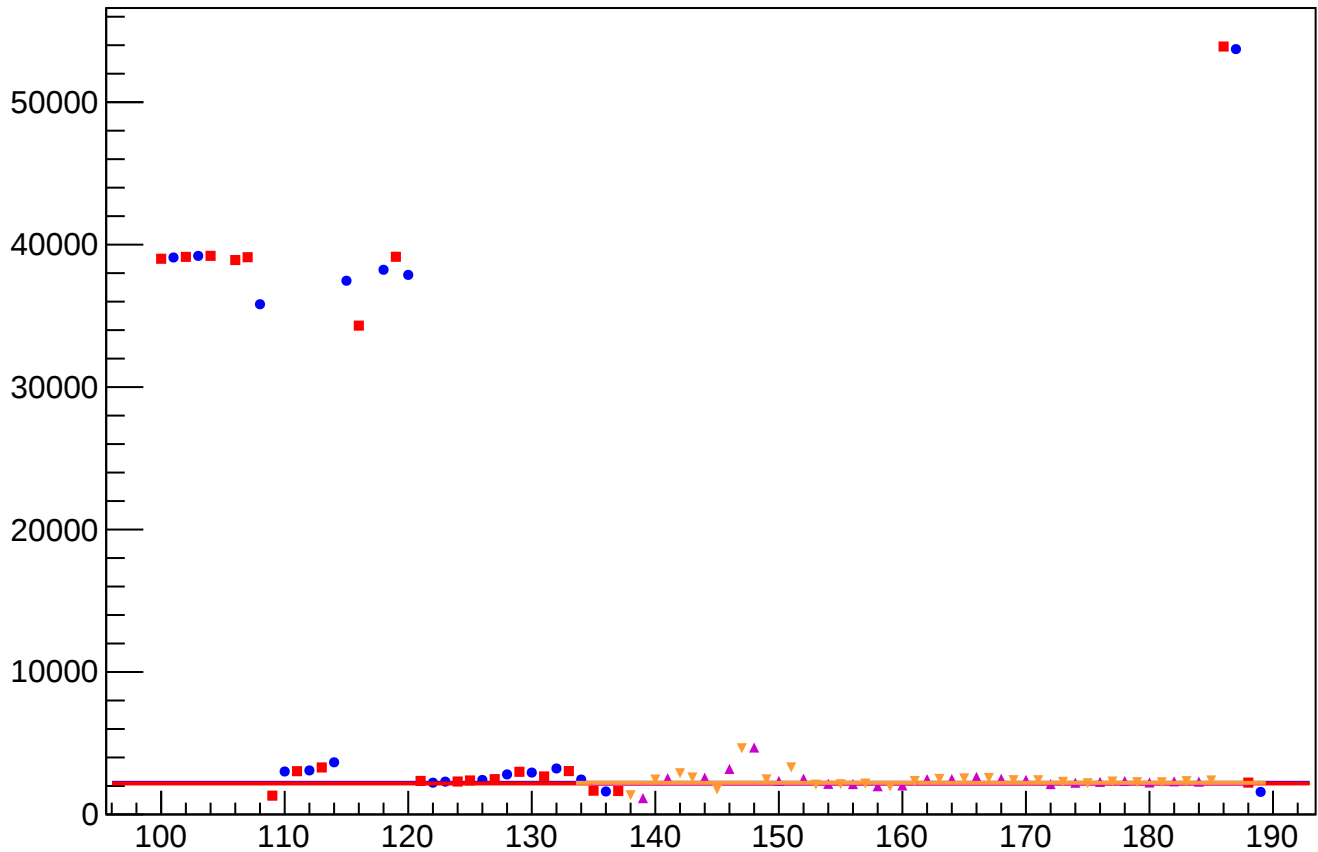
Right: 1.385 $\pm$ 0.726 χ^2 /NDF: 52.9/39

In: 0.163 $\pm$ 0.481 χ^2 /NDF: 47.9/41

Out: -0.621 $\pm$ 0.472 χ^2 /NDF: 53.3/45

All: -0.236 $\pm$ 0.337 χ^2 /NDF: 102.6/87

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: 2176.001+/-0.712 χ^2/NDF : 6008650.0/20

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

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

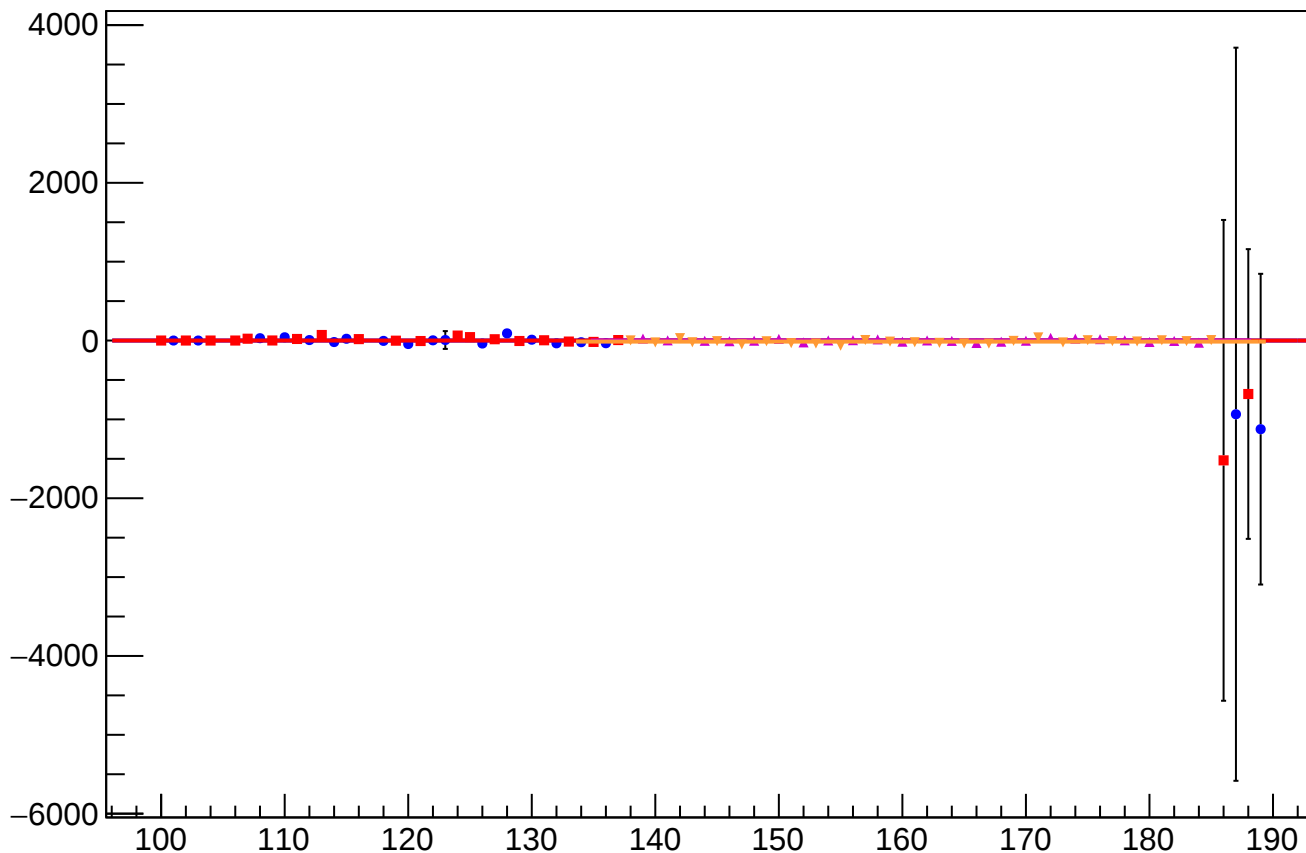
Right: 2197.466+/-0.514 χ^2/NDF : 11437430.0/39

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

Out: 2211.937+/-0.334 χ^2/NDF : 7434356.7/45

All: 2196.366+/-0.238 χ^2/NDF : 14844314.5/86

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: 15.9/20

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

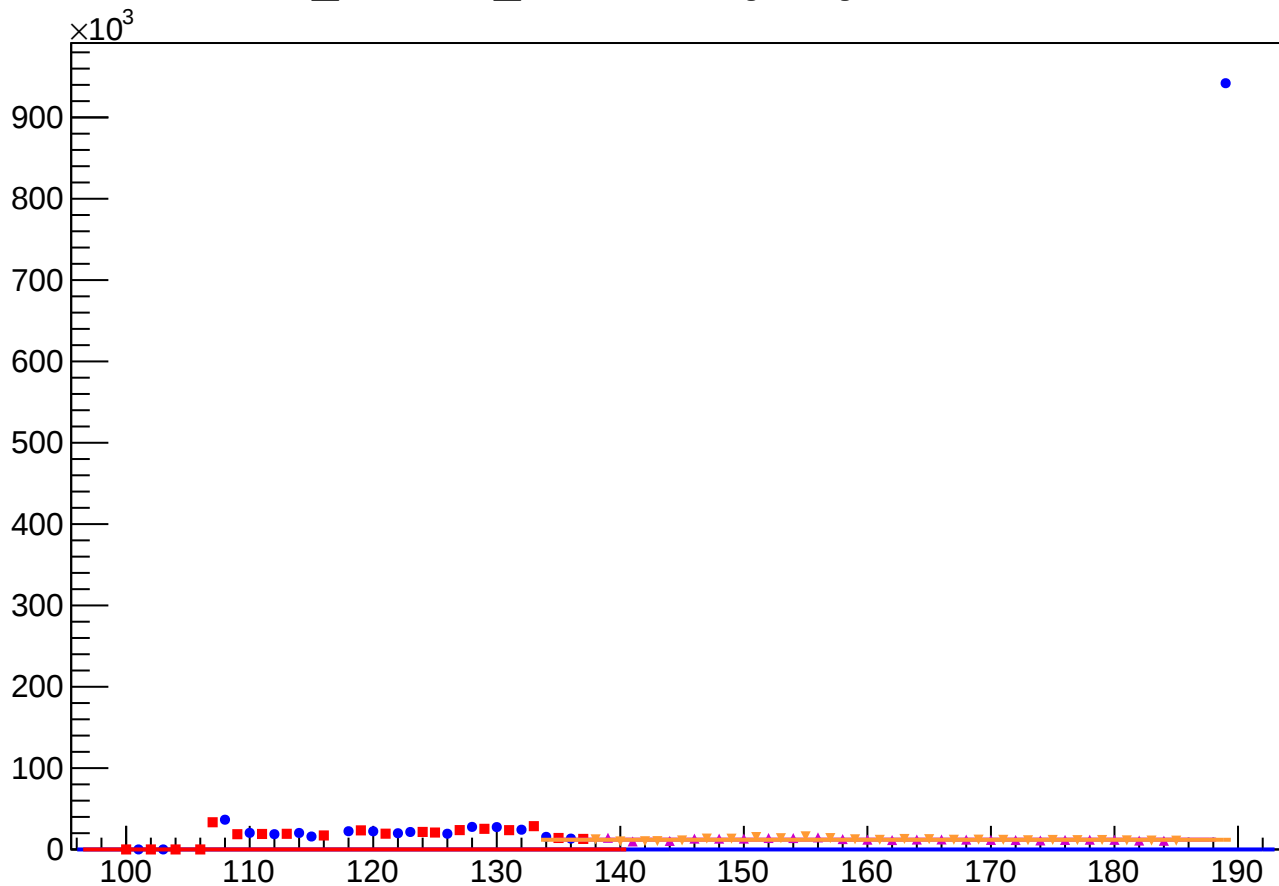
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 33.4/39

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

Out: -0.004 $\pm$ 0.016 χ^2 /NDF:97.7/45

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 144.2/87

diff_cav4bX_rms vs Slug, Sign Corrected



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

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

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

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

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

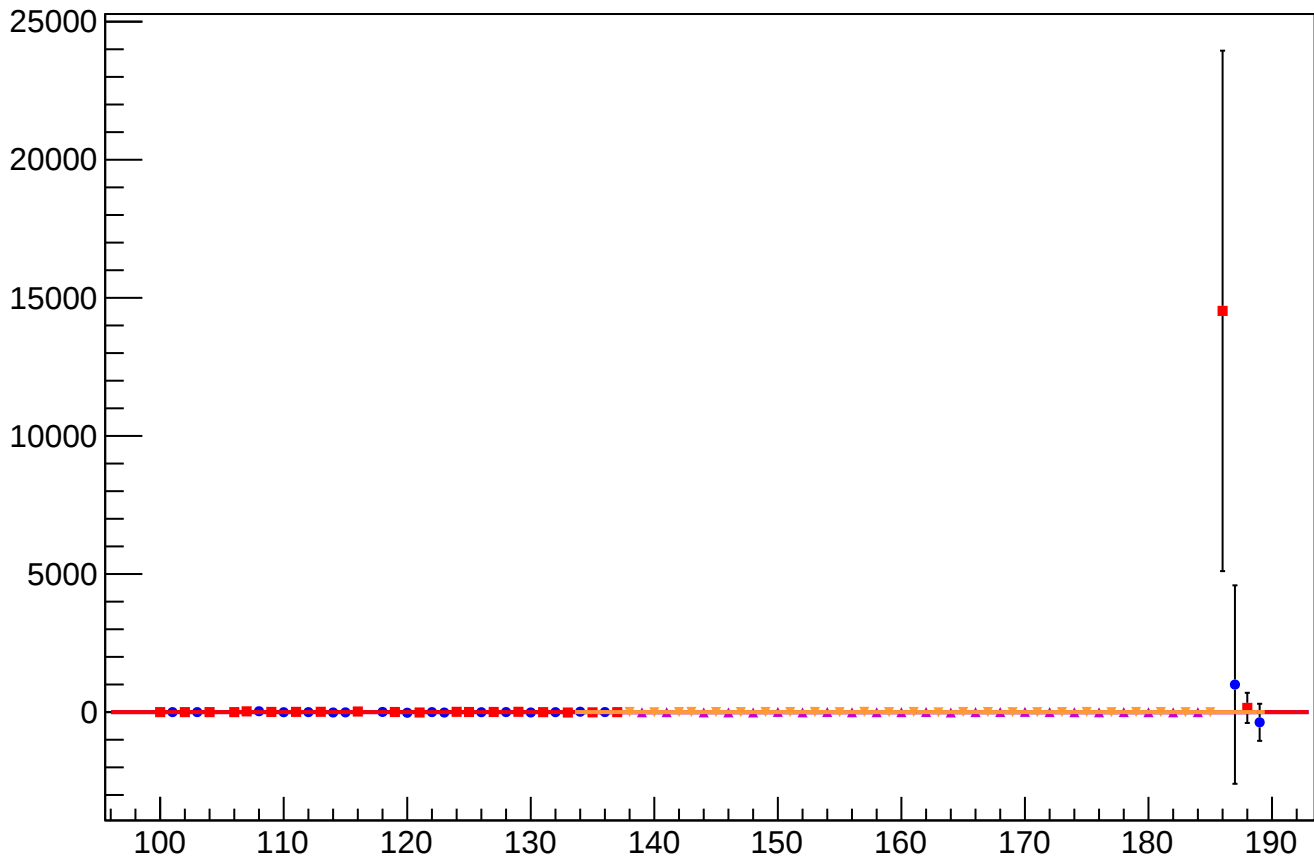
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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

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

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

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 13.3/18$

Left Out: 1.649 ± 1.022 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 21.2/20$

Left In: -0.939 ± 1.049 $\chi^2/\text{NDF}: 35.6/22$

Left: 0.388 ± 0.732 $\chi^2/\text{NDF}: 57.1/47$

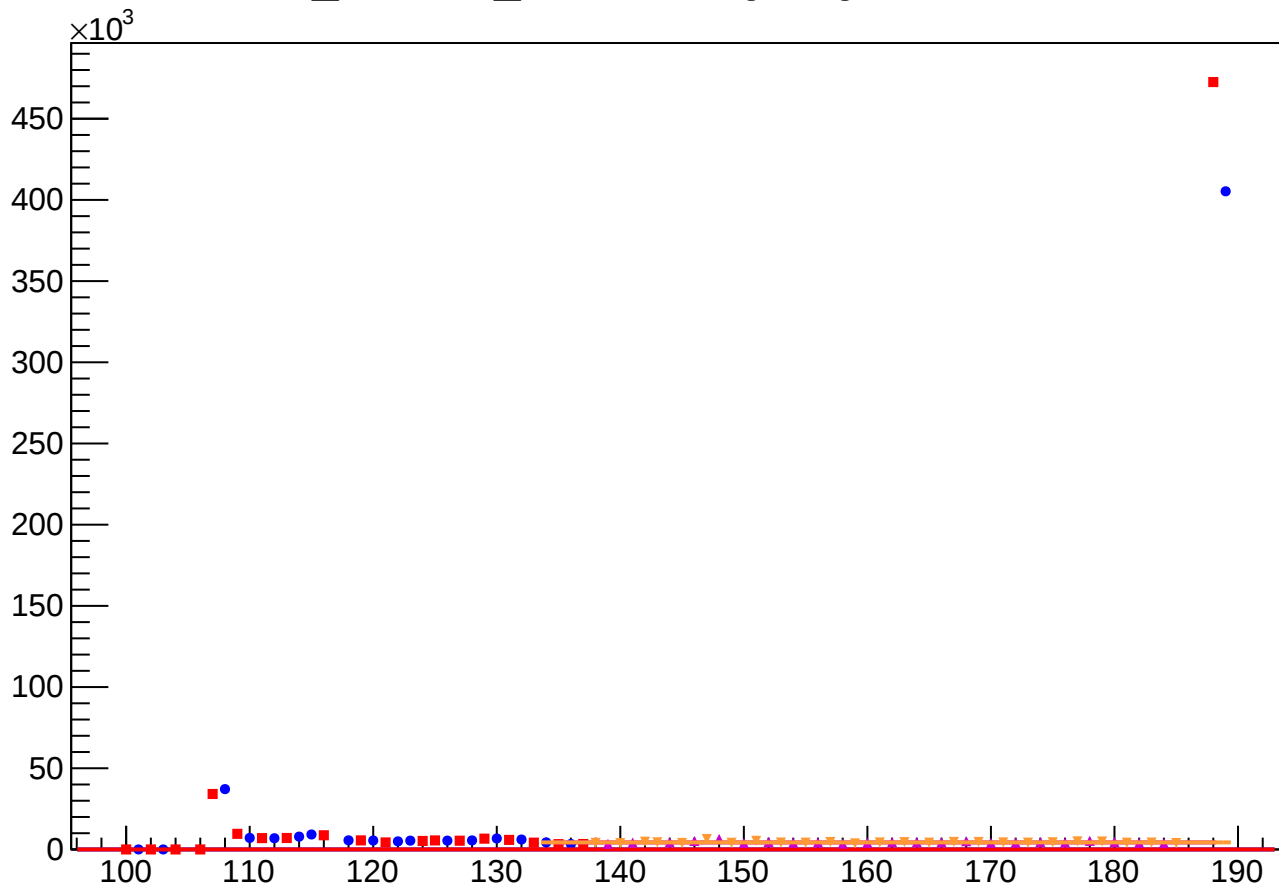
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 35.9/39$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 49.7/41$

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 42.2/45$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 93.3/87$

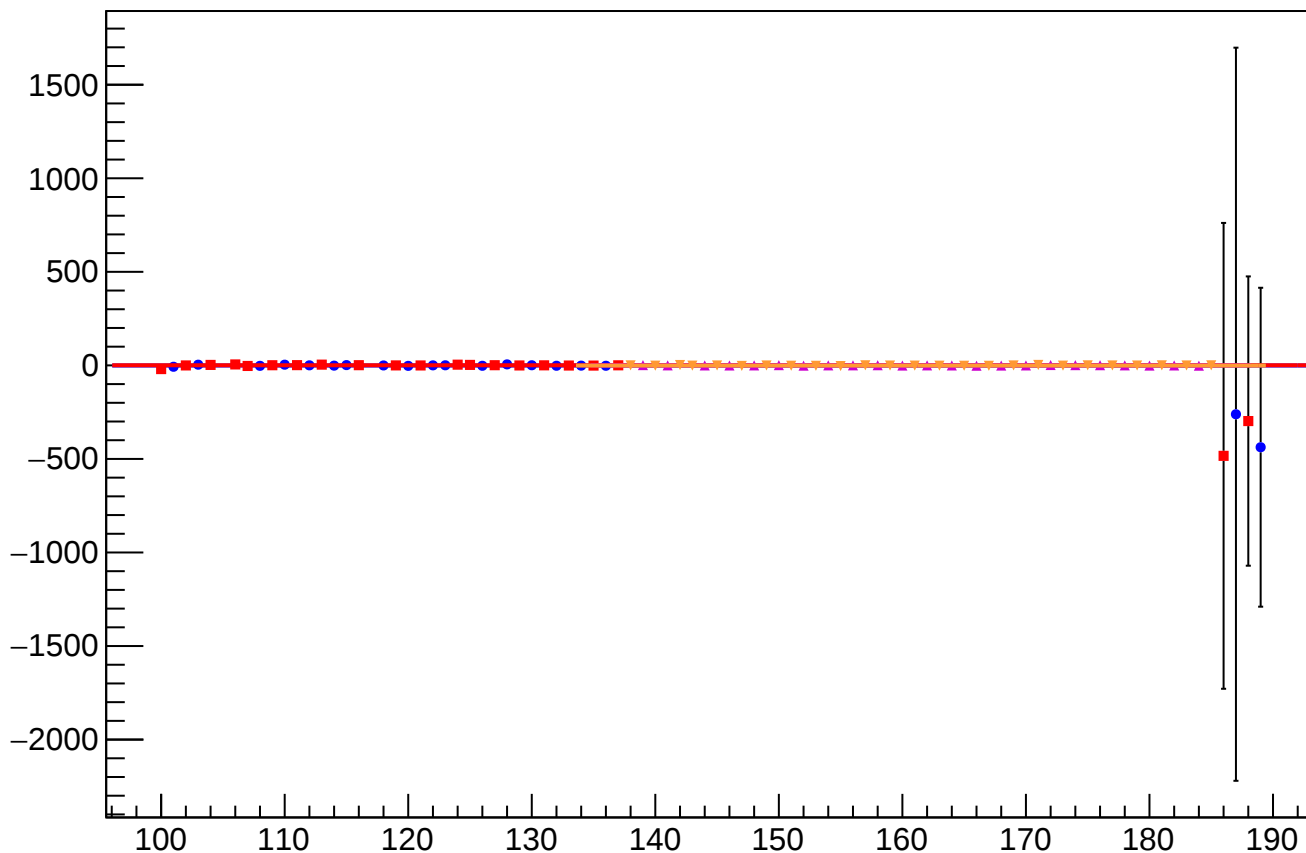
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 $\chi^2/\text{NDF}: 11774538.3/17$
 Left Out: 4349.005 ± 0.723 $\chi^2/\text{NDF}: 383895.7/24$
 Right Out: 9.854 ± 0.006 $\chi^2/\text{NDF}: 12586489.2/19$
 Left In: 4321.572 ± 0.741 $\chi^2/\text{NDF}: 514603.2/22$

Left: 4335.639 ± 0.518 $\chi^2/\text{NDF}: 899200.9/47$
 Right: 9.894 ± 0.004 $\chi^2/\text{NDF}: 24361117.3/37$
 In: 10.271 ± 0.007 $\chi^2/\text{NDF}: 46106286.2/40$
 Out: 10.165 ± 0.006 $\chi^2/\text{NDF}: 49015662.5/44$
 All: 10.215 ± 0.004 $\chi^2/\text{NDF}: 95122089.3/85$

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 : 13.4/20

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

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

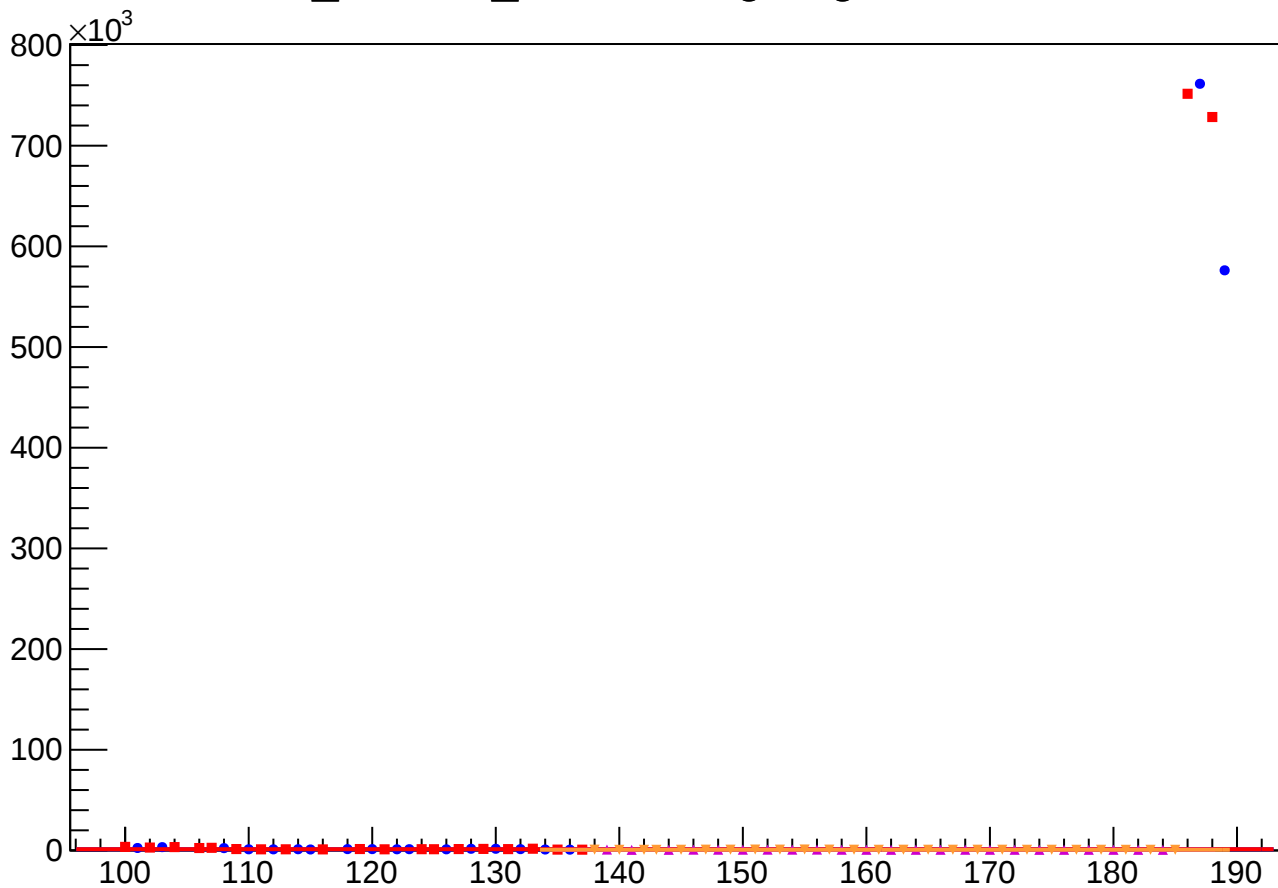
Right: -0.063 ± 0.348 χ^2/NDF : 40.1/39

In: -0.063 ± 0.161 χ^2/NDF : 54.5/41

Out: -0.638 ± 0.156 χ^2/NDF : 79.0/45

All: -0.359 ± 0.112 χ^2/NDF : 140.1/87

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: 1248.337+/-0.355 χ^2/NDF : 4116389.3/20

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

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

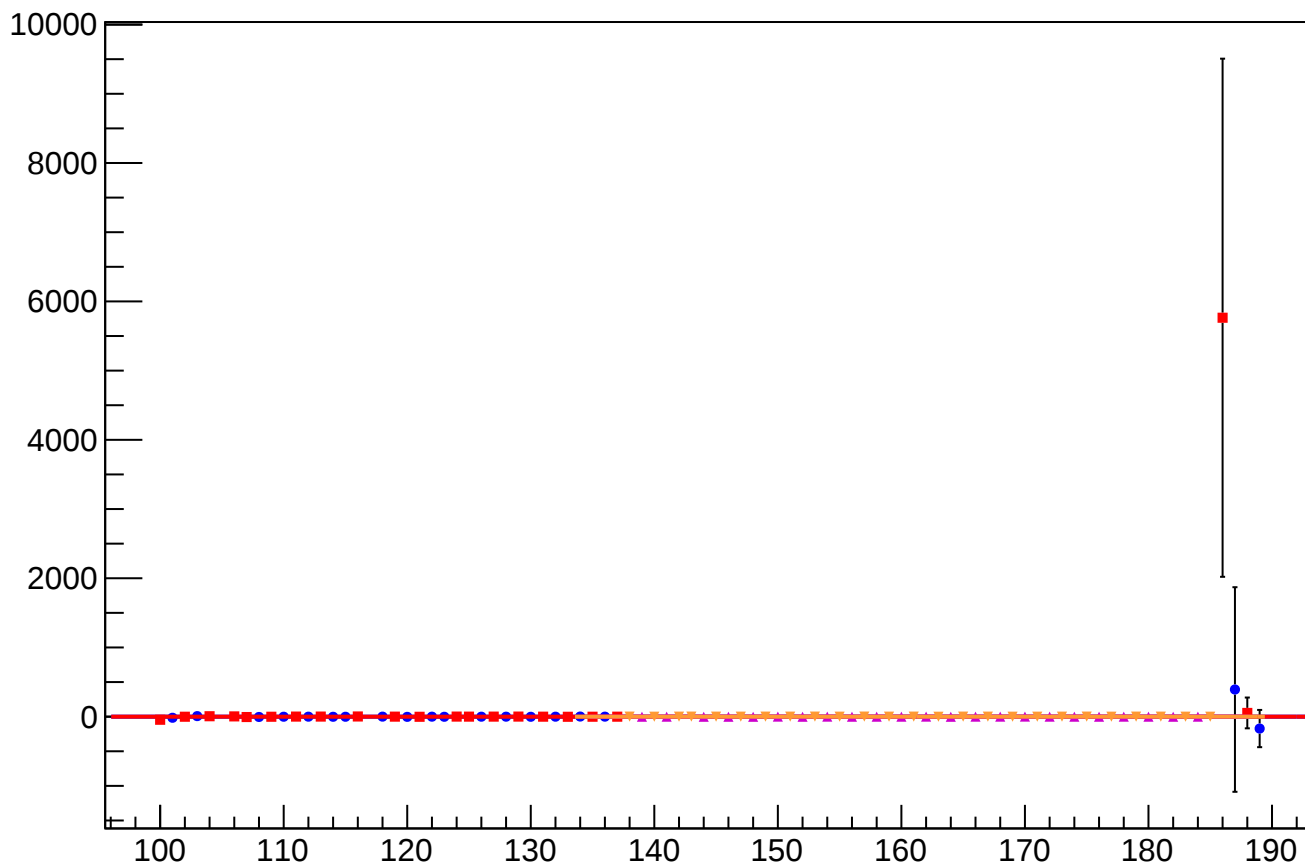
Right: 1206.335+/-0.246 χ^2/NDF : 6935324.6/39

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

Out: 754.204+/-0.111 χ^2/NDF : 6660229.0/45

All: 756.099+/-0.079 χ^2/NDF : 11399144.6/87

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 : 23.0/20

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

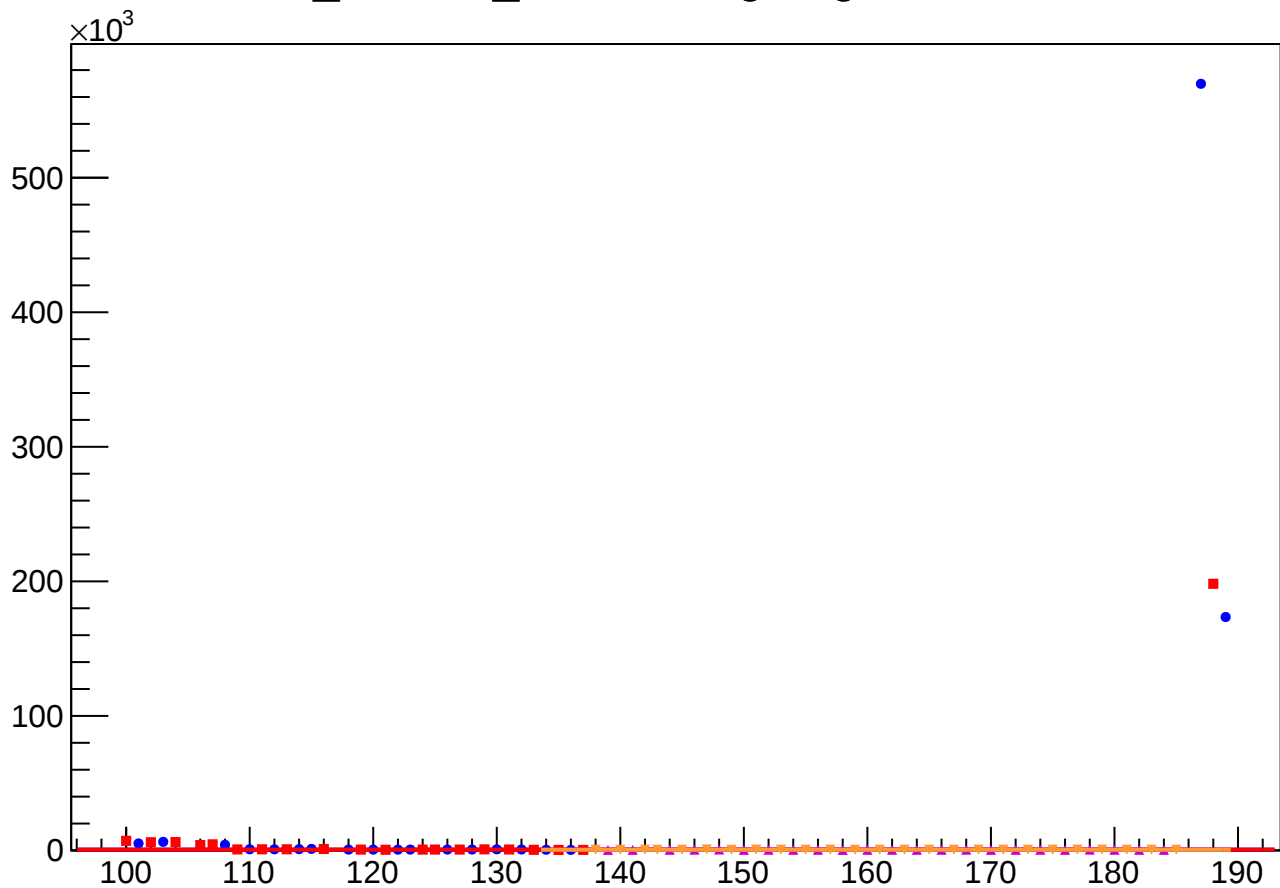
Right: -0.172 ± 0.189 χ^2/NDF : 42.9/39

In: -0.114 ± 0.114 χ^2/NDF : 54.6/41

Out: 0.142 ± 0.111 χ^2/NDF : 44.1/45

All: 0.018 ± 0.080 χ^2/NDF : 101.2/87

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: 599.099 $\pm$ 0.187 χ^2/NDF : 5130396.5/19

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

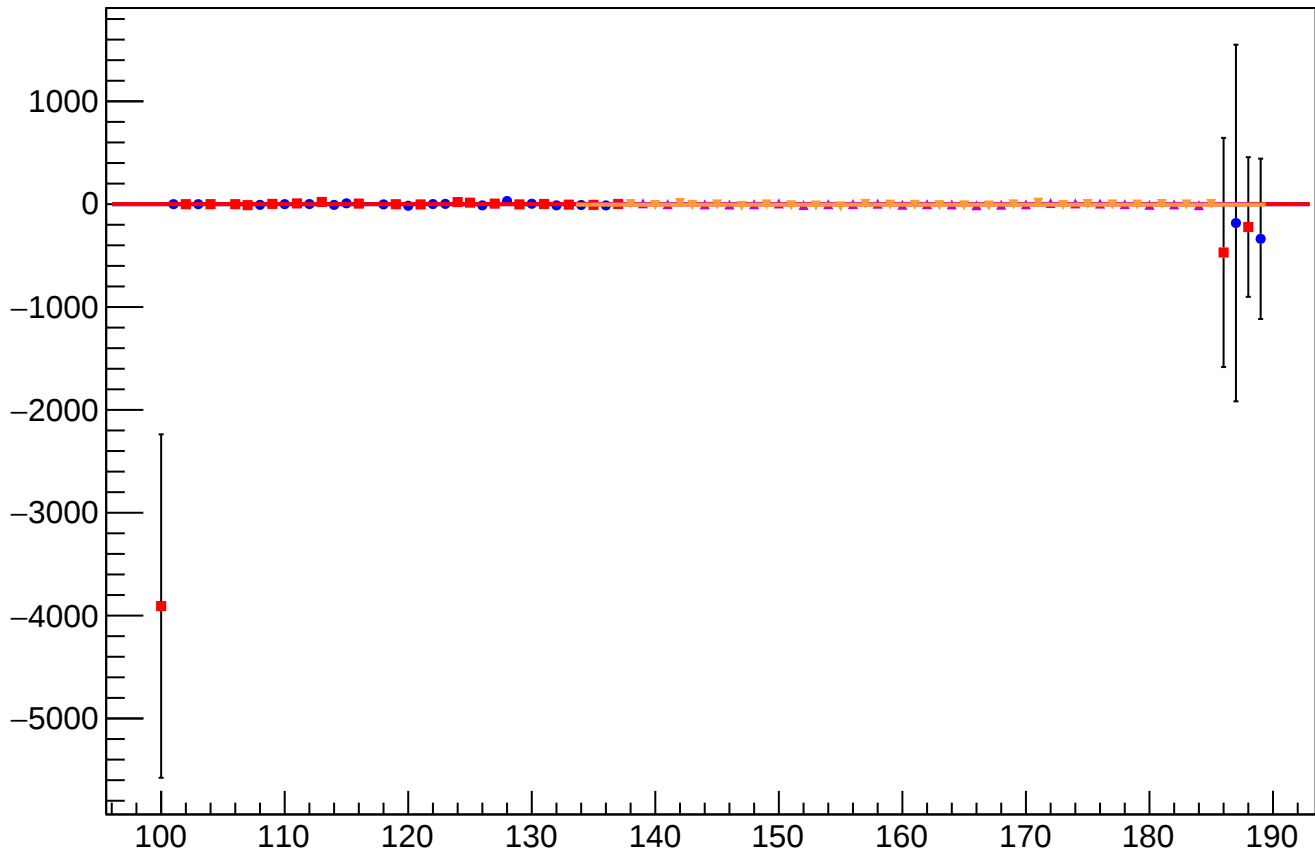
Right: 604.248 $\pm$ 0.133 χ^2/NDF : 9389148.6/38

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

Out: 535.824 $\pm$ 0.079 χ^2/NDF : 5599954.3/44

All: 536.261 $\pm$ 0.056 χ^2/NDF : 10463917.4/86

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2/NDF : 16.2/18

Left Out: -4.480 $\pm$ 0.957 χ^2/NDF : 58.4/24

Right Out: 0.027 $\pm$ 0.020 χ^2/NDF : 17.7/20

Left In: 0.183 $\pm$ 0.994 χ^2/NDF : 29.5/22

Left: -2.236 $\pm$ 0.689 χ^2/NDF : 99.3/47

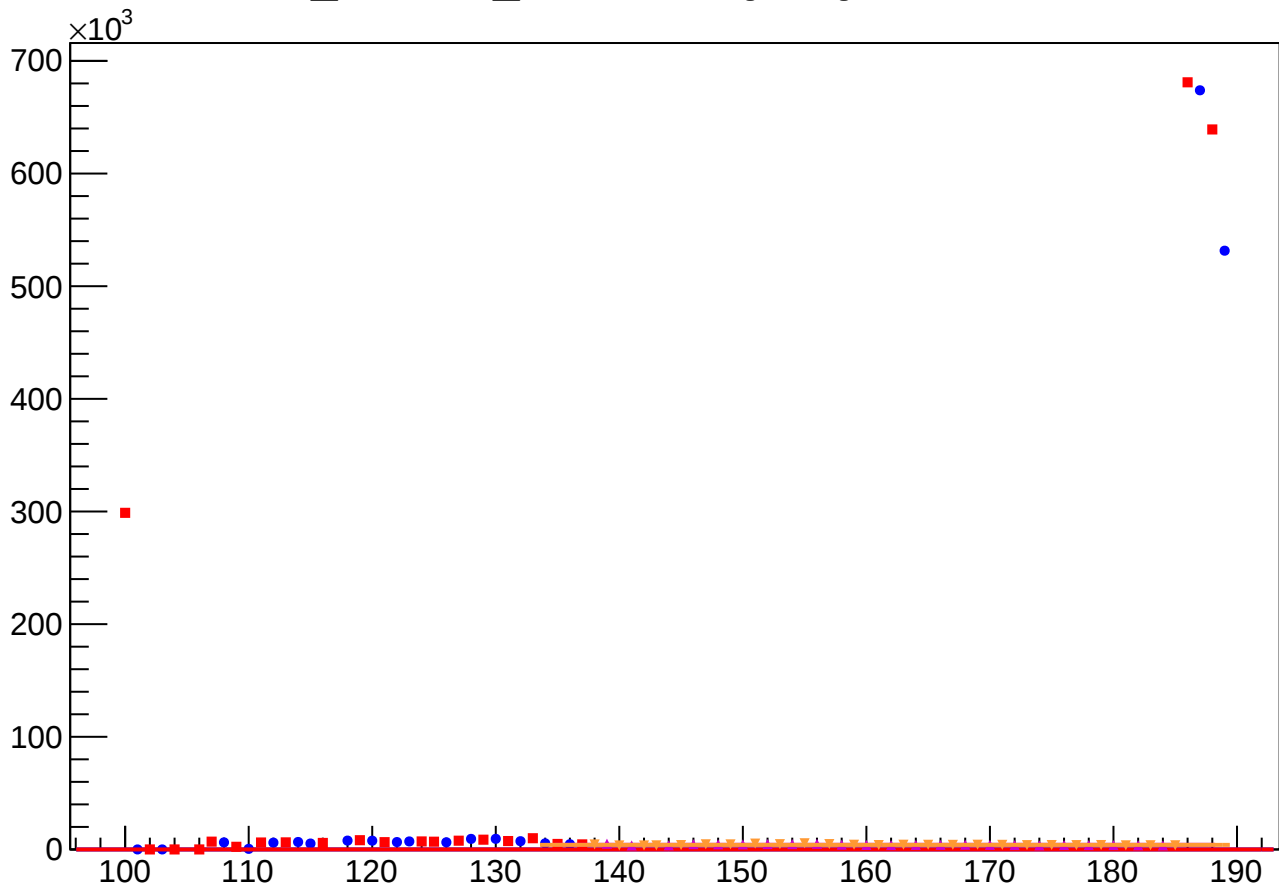
Right: 0.004 $\pm$ 0.014 χ^2/NDF : 36.7/39

In: -0.022 $\pm$ 0.021 χ^2/NDF : 45.7/41

Out: 0.025 $\pm$ 0.020 χ^2/NDF : 98.3/45

All: 0.003 $\pm$ 0.014 χ^2/NDF : 146.6/87

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: 17.268 $\pm$ 0.014 χ^2 /NDF: 13285866.4/20

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

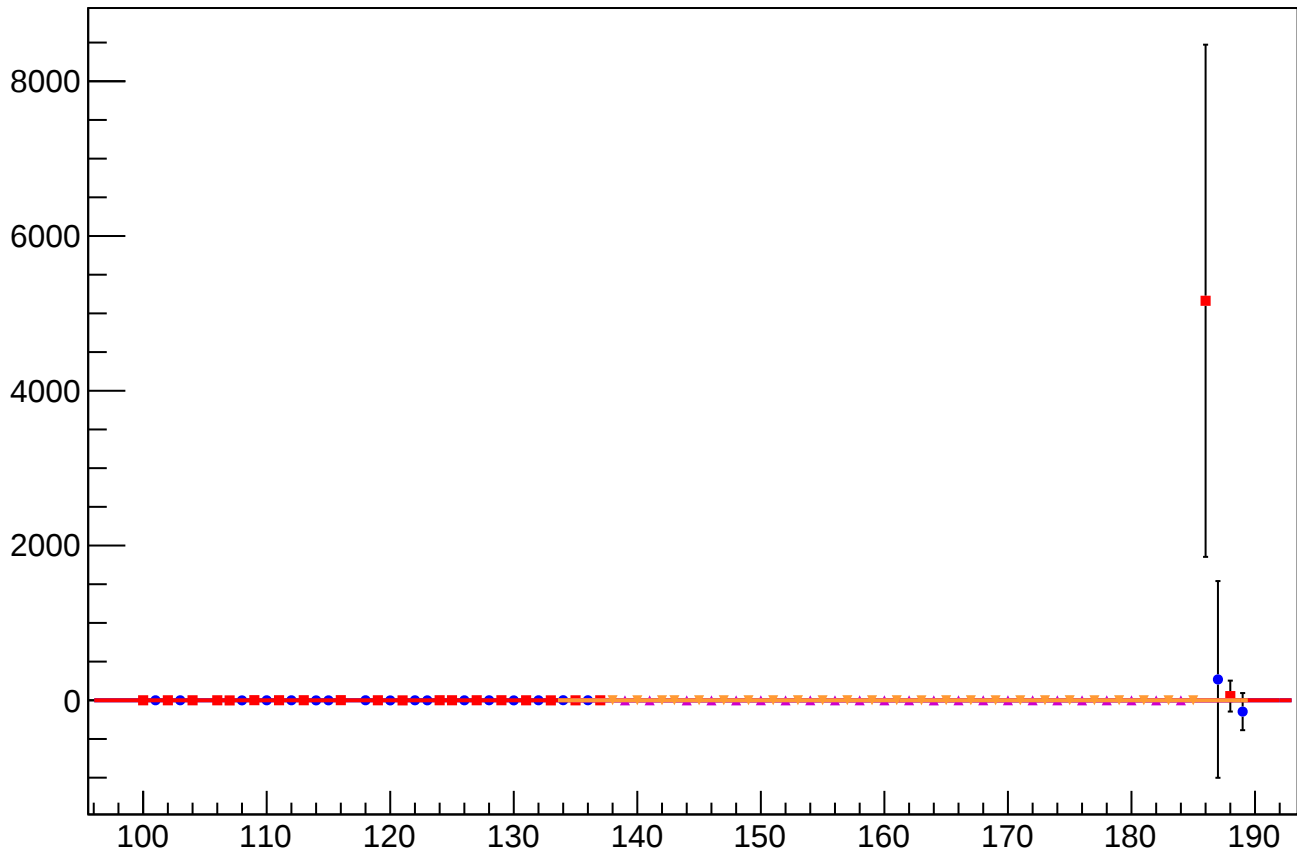
Right: 17.302 $\pm$ 0.010 χ^2 /NDF: 24975147.9/39

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

Out: 19.000 $\pm$ 0.014 χ^2 /NDF: 49638911.3/45

All: 19.062 $\pm$ 0.010 χ^2 /NDF: 95630751.4/87

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: 20.7/20

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

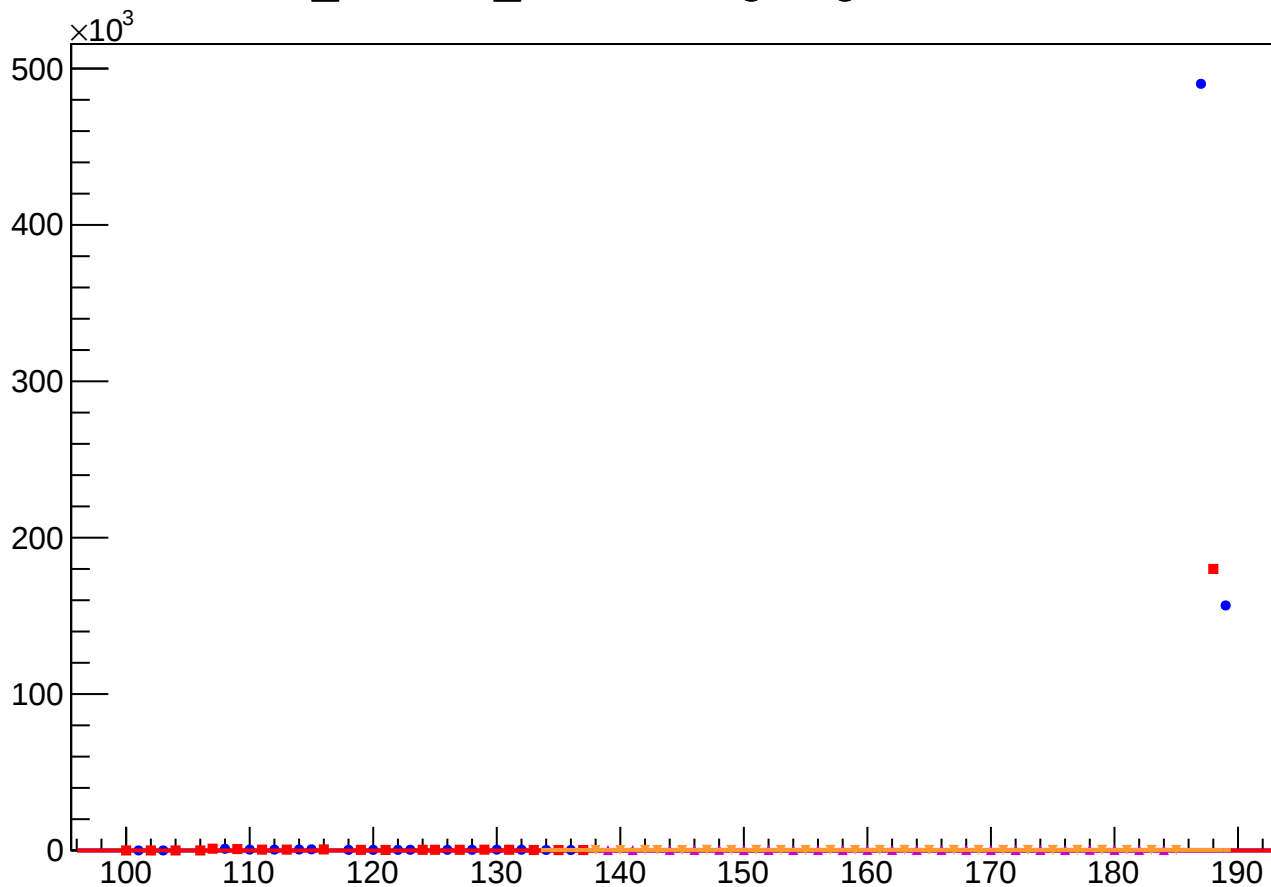
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 34.9/39

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

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:41.8/45

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 91.6/87

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: 12321752.6/19

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

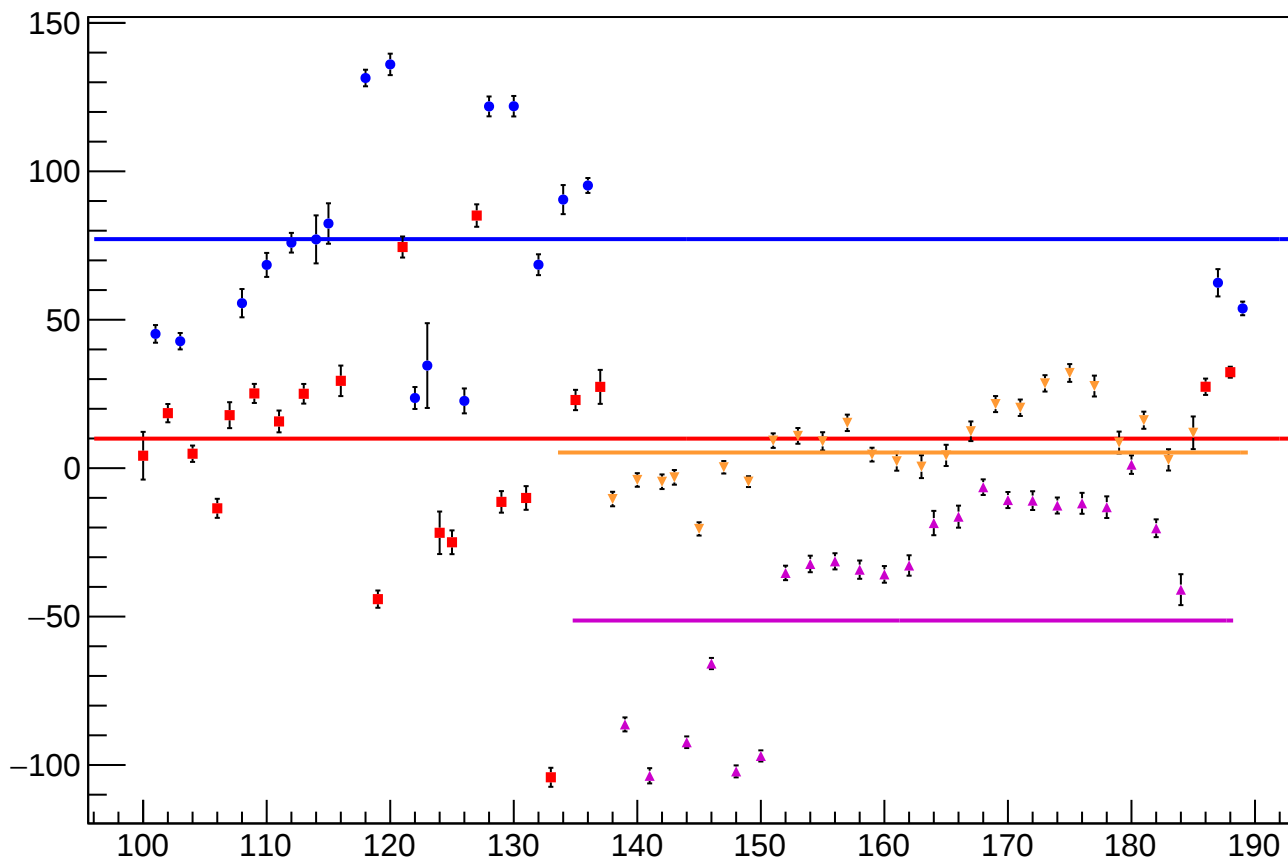
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 24479038.3/38

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

Out: 1.936 $\pm$ 0.001 χ^2 /NDF: 48529285.0/44

All: 1.925 $\pm$ 0.001 χ^2 /NDF: 94828657.4/86

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: 9.951 $\pm$ 0.739 χ^2 /NDF: 2836.3/20

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

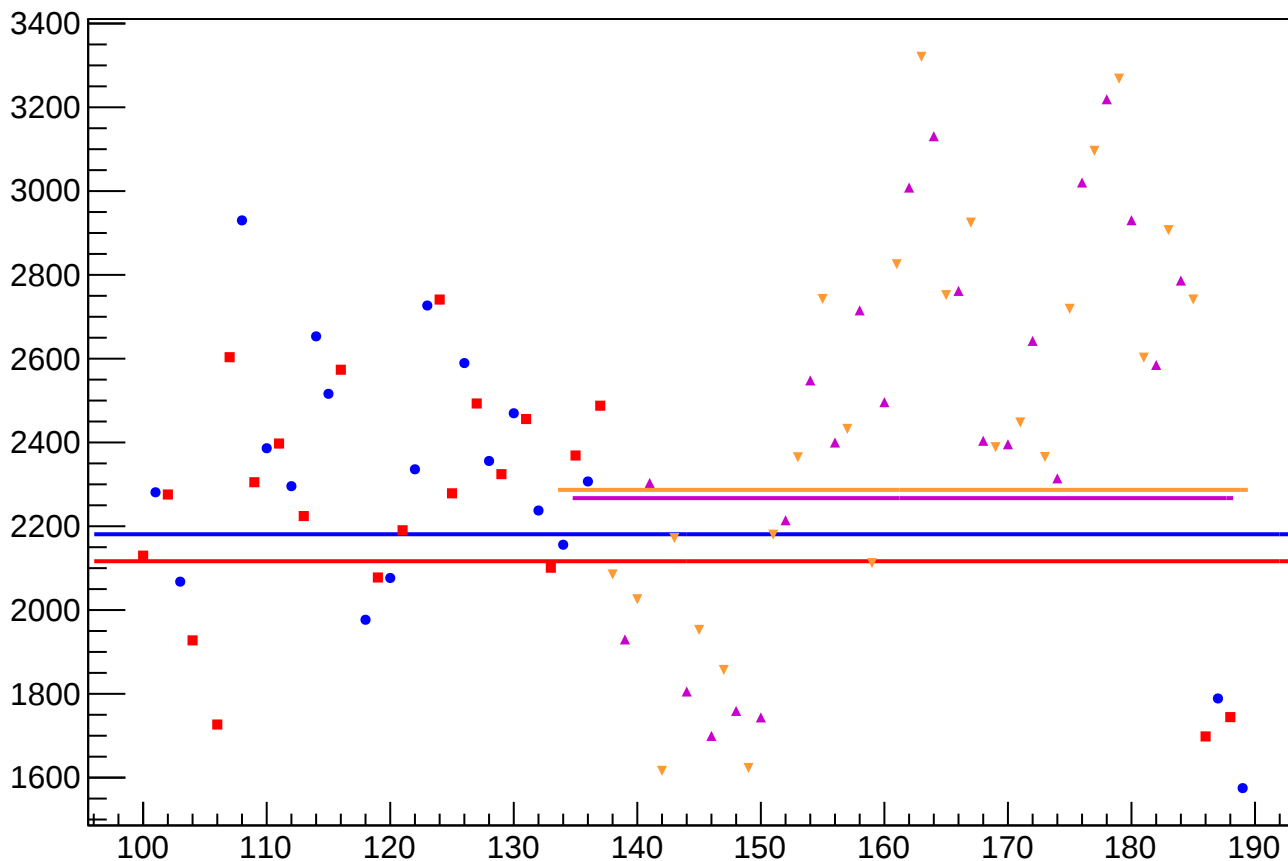
Right: 40.309 $\pm$ 0.547 χ^2 /NDF: 8421.3/39

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

Out: 6.918 $\pm$ 0.438 χ^2 /NDF: 3418.5/45

All: -1.244 $\pm$ 0.317 χ^2 /NDF: 27185.6/87

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2180.897 $\pm$ 0.576 χ^2/NDF : 290623.5/18

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

Right Out: 2116.522 $\pm$ 0.523 χ^2/NDF : 312979.7/20

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

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

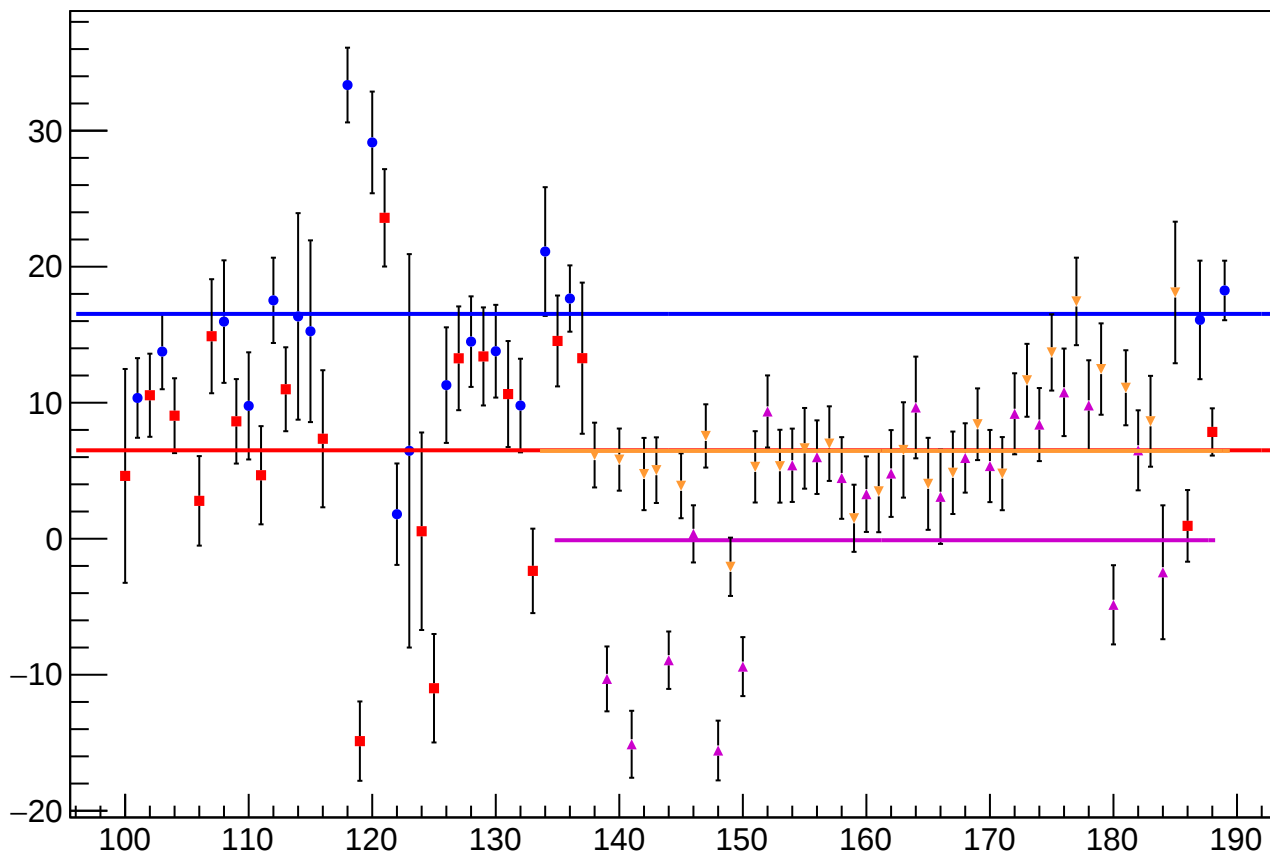
Right: 2145.600 $\pm$ 0.387 χ^2/NDF : 610451.9/39

In: 2239.544 $\pm$ 0.326 χ^2/NDF :1619224.7/41

Out: 2227.015 $\pm$ 0.310 χ^2/NDF :1742336.3/45

All: 2232.969 $\pm$ 0.224 χ^2/NDF : 3362337.7/87

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.529 $\pm$ 0.797 χ^2/NDF : 81.7/18

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

Right Out: 6.501 $\pm$ 0.722 χ^2/NDF : 135.7/20

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

Left: 3.278 $\pm$ 0.393 χ^2/NDF : 363.0/47

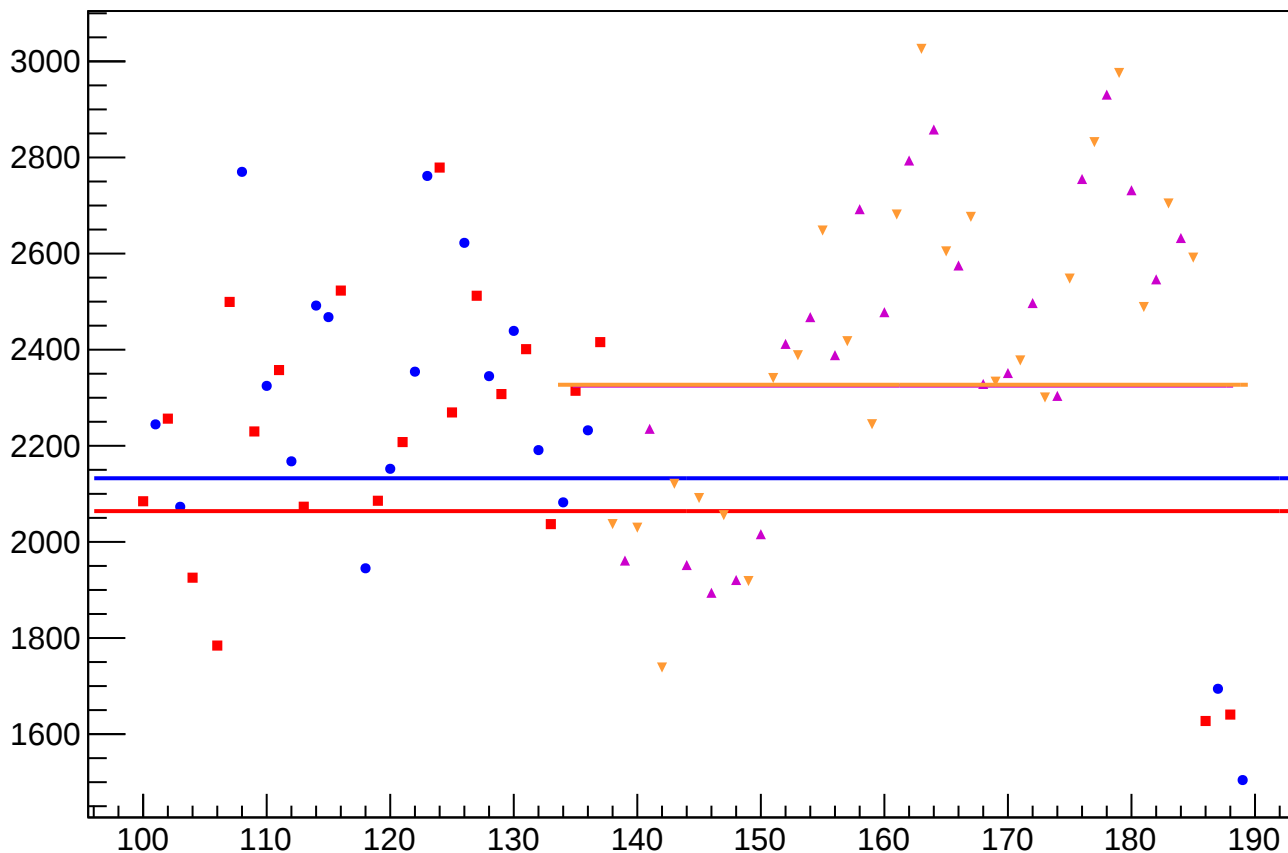
Right: 11.019 $\pm$ 0.535 χ^2/NDF : 304.3/39

In: 5.456 $\pm$ 0.461 χ^2/NDF : 606.2/41

Out: 6.474 $\pm$ 0.436 χ^2/NDF : 194.4/45

All: 5.993 $\pm$ 0.317 χ^2/NDF : 803.2/87

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: 2064.079 $\pm$ 0.510 χ^2/NDF : 357502.2/20

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

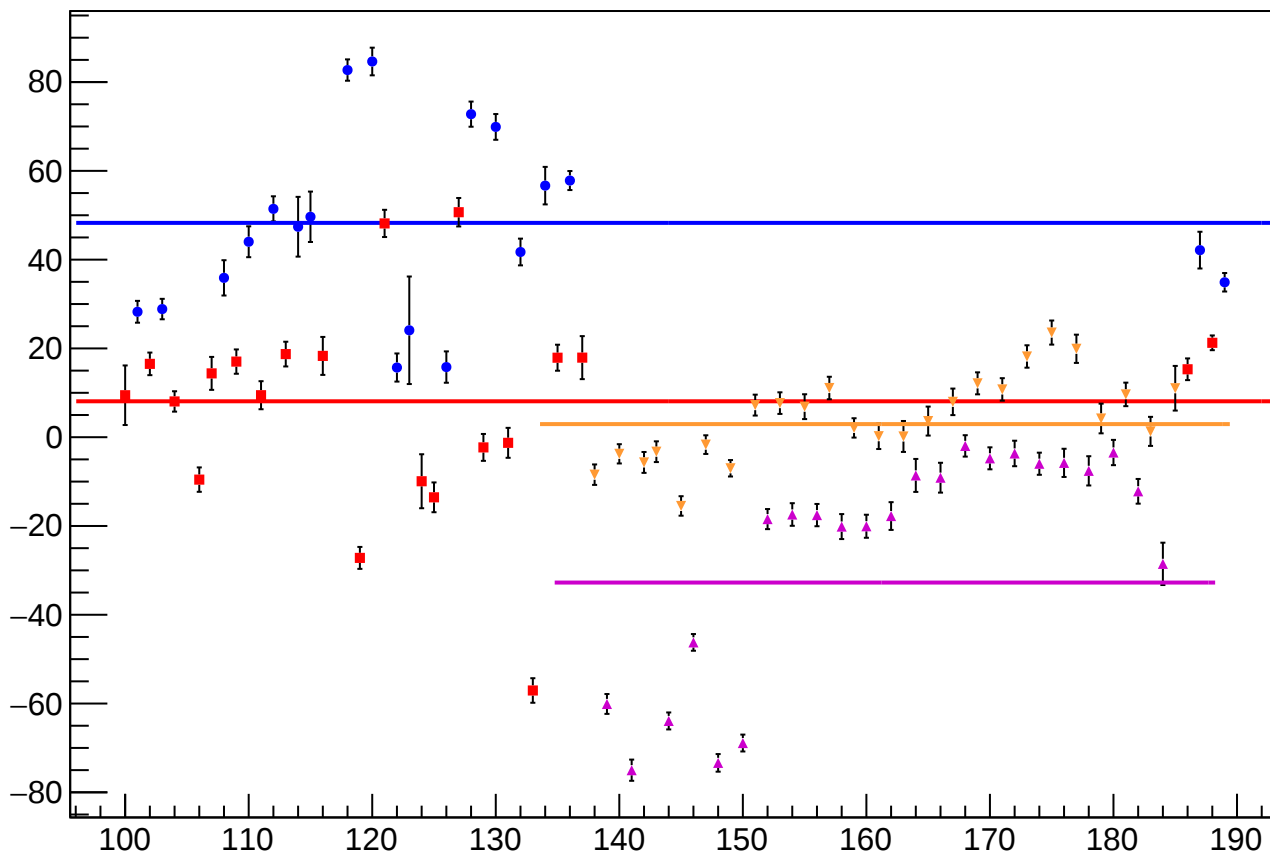
Right: 2094.889 $\pm$ 0.378 χ^2/NDF : 684296.8/39

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

Out: 2230.984 $\pm$ 0.308 χ^2/NDF : 1172712.4/45

All: 2245.028 $\pm$ 0.224 χ^2/NDF : 2184316.7/87

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 48.283 $\pm$ 0.697 χ^2/NDF : 887.7/18

Left Out: 2.952 $\pm$ 0.512 χ^2/NDF : 337.8/24

Right Out: 8.091 $\pm$ 0.634 χ^2/NDF : 1349.3/20

Left In: -32.745 $\pm$ 0.526 χ^2/NDF : 2632.5/22

Left: -14.409 $\pm$ 0.367 χ^2/NDF : 5335.1/47

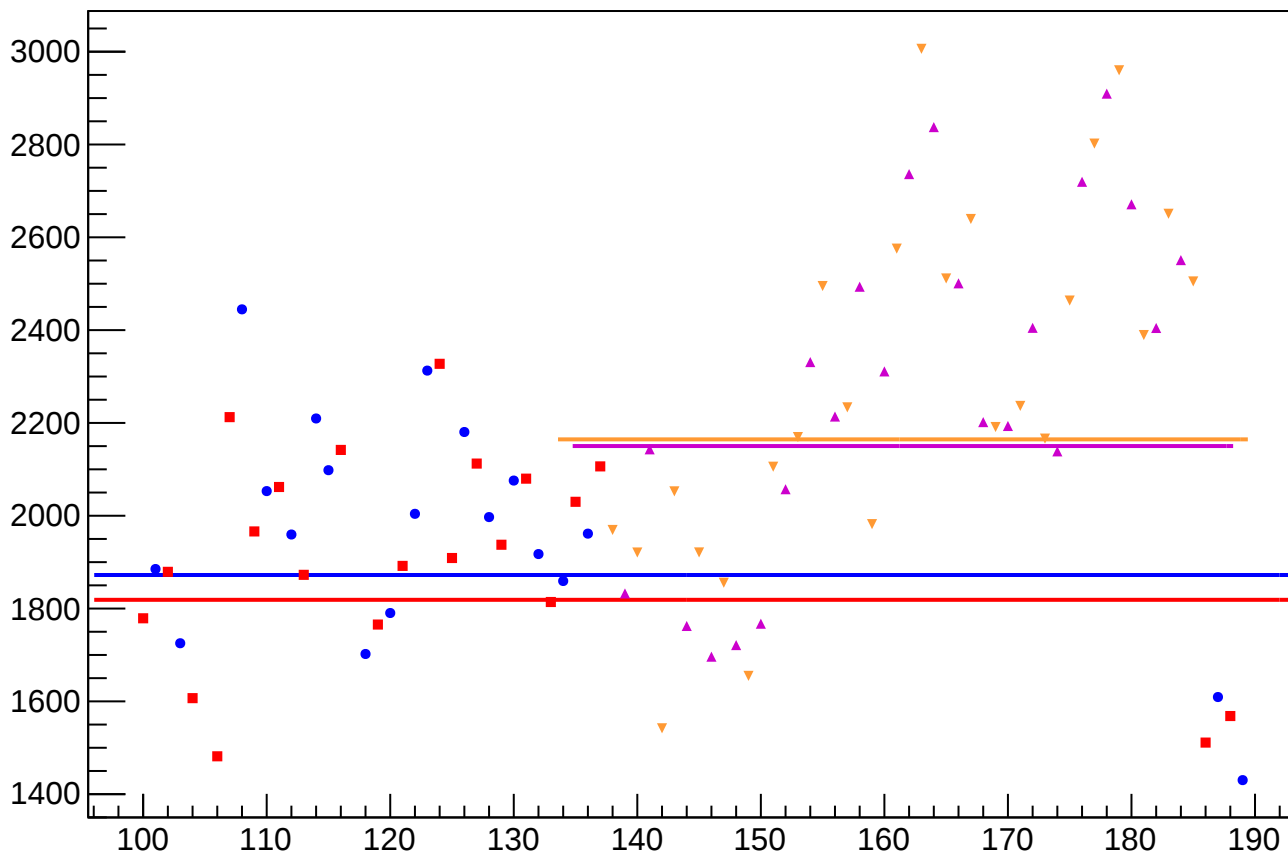
Right: 26.280 $\pm$ 0.469 χ^2/NDF : 4055.9/39

In: -3.349 $\pm$ 0.420 χ^2/NDF : 12125.4/41

Out: 4.980 $\pm$ 0.398 χ^2/NDF : 1726.8/45

All: 1.036 $\pm$ 0.289 χ^2/NDF : 14059.3/87

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: 1818.824 ± 0.448 χ^2/NDF : 244513.3/20

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

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

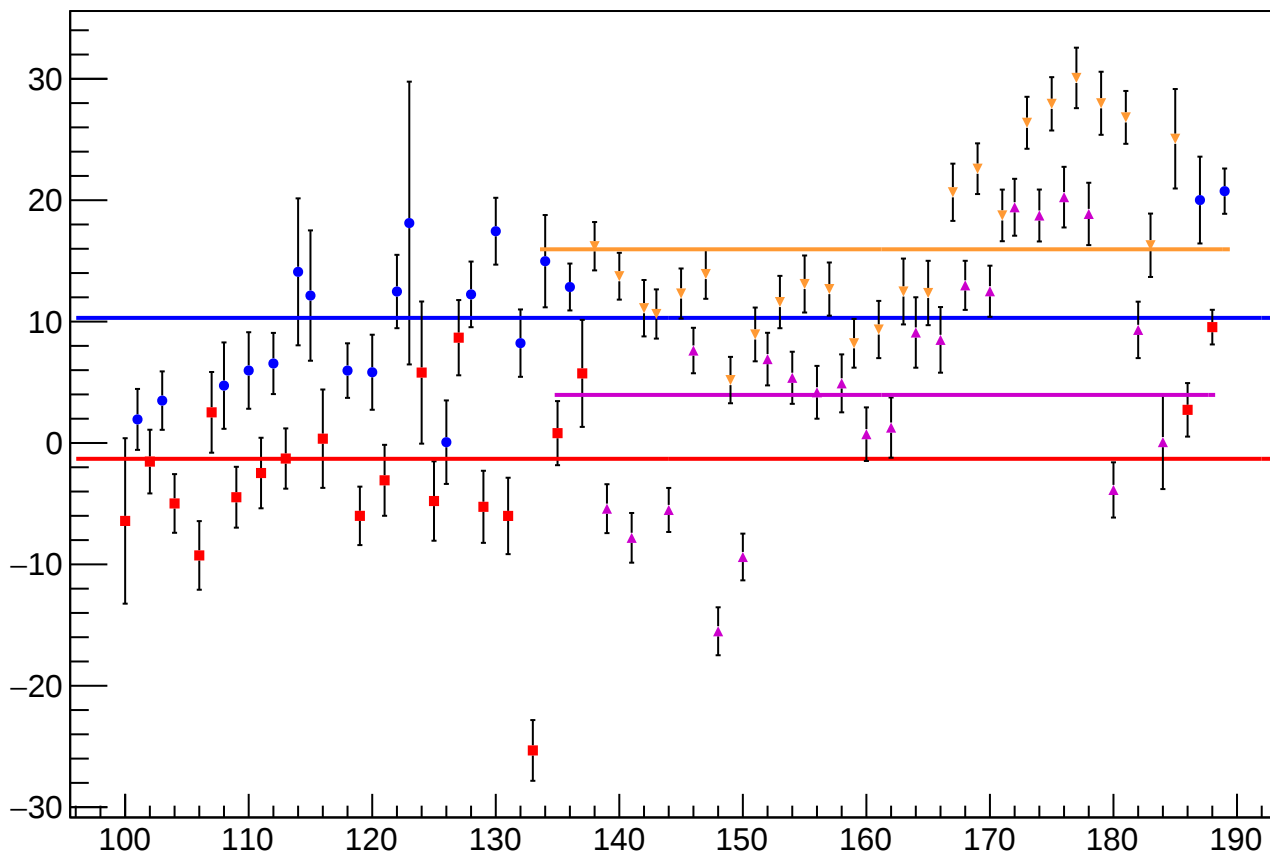
Right: 1843.033 ± 0.332 χ^2/NDF : 464630.1/39

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

Out: 2028.110 ± 0.282 χ^2/NDF : 1570190.6/45

All: 2038.181 ± 0.204 χ^2/NDF : 2900815.9/87

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: -1.304 ± 0.594 $\chi^2/\text{NDF}: 191.7/20$

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

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

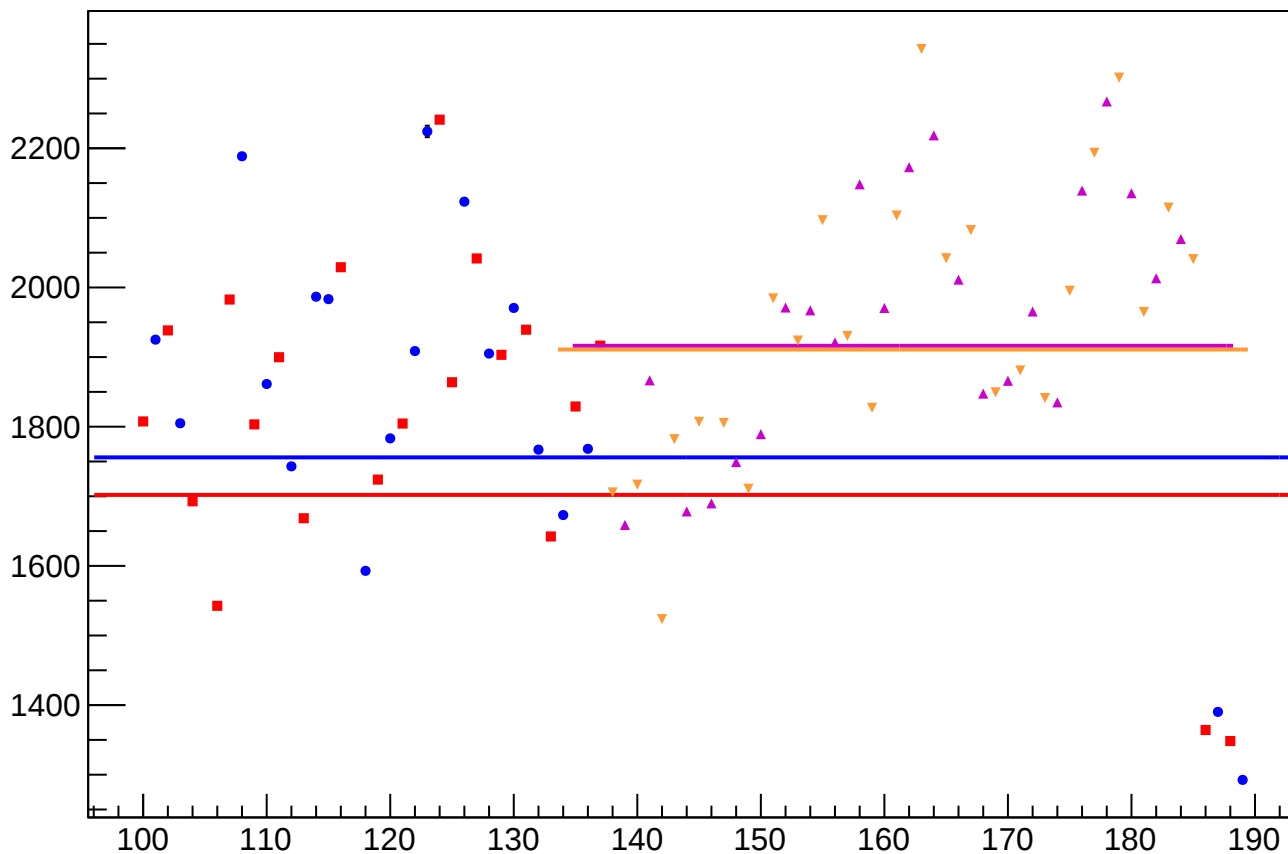
Right: 3.939 ± 0.440 $\chi^2/\text{NDF}: 456.0/39$

In: 6.077 ± 0.378 $\chi^2/\text{NDF}: 619.2/41$

Out: 9.705 ± 0.357 $\chi^2/\text{NDF}: 975.9/45$

All: 7.992 ± 0.260 $\chi^2/\text{NDF}: 1643.8/87$

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: 1701.984 $\pm$ 0.420 χ^2 /NDF: 312560.0/20

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

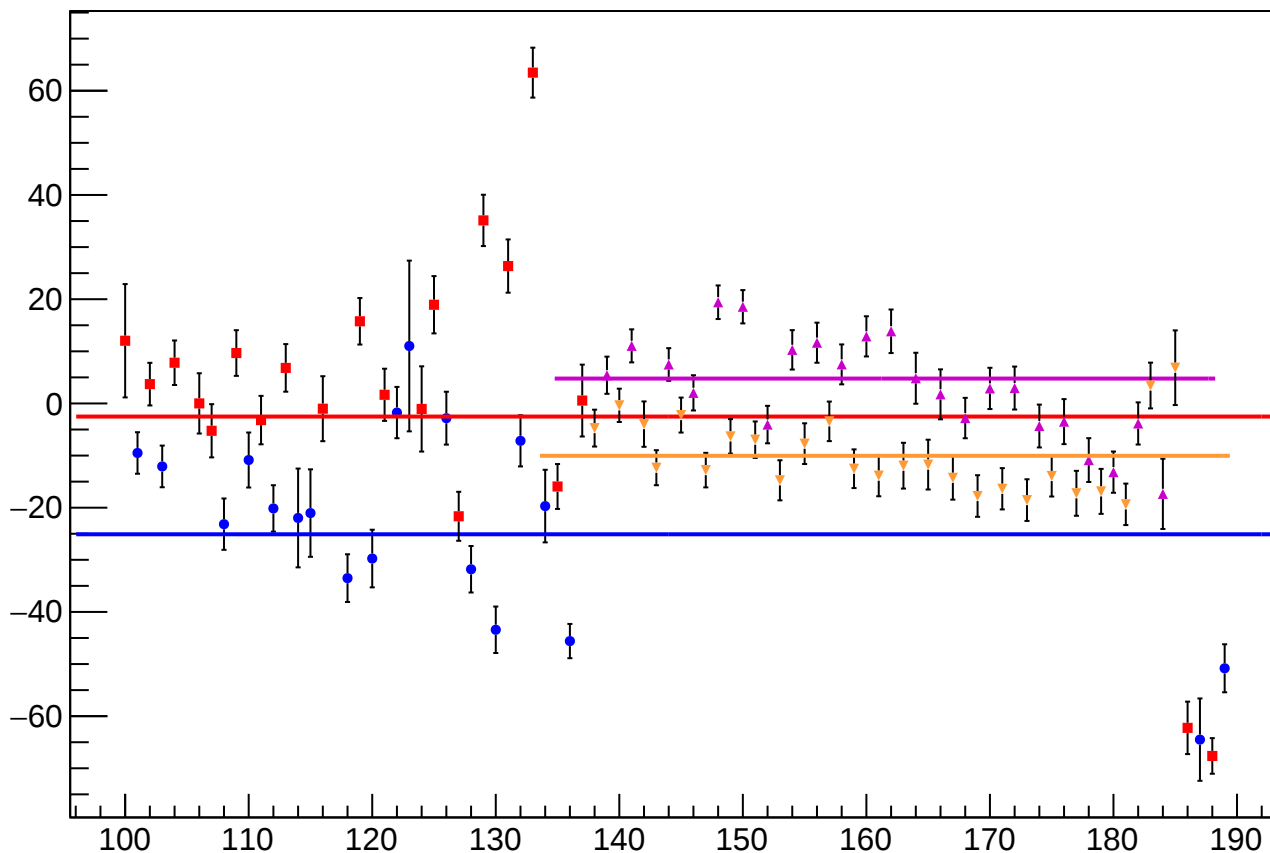
Right: 1726.333 $\pm$ 0.311 χ^2 /NDF: 573738.6/39

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

Out: 1835.214 $\pm$ 0.253 χ^2 /NDF: 799397.9/45

All: 1848.196 $\pm$ 0.184 χ^2 /NDF: 1412978.9/87

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: -2.512±/-1.072 χ^2/NDF : 866.5/20

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

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

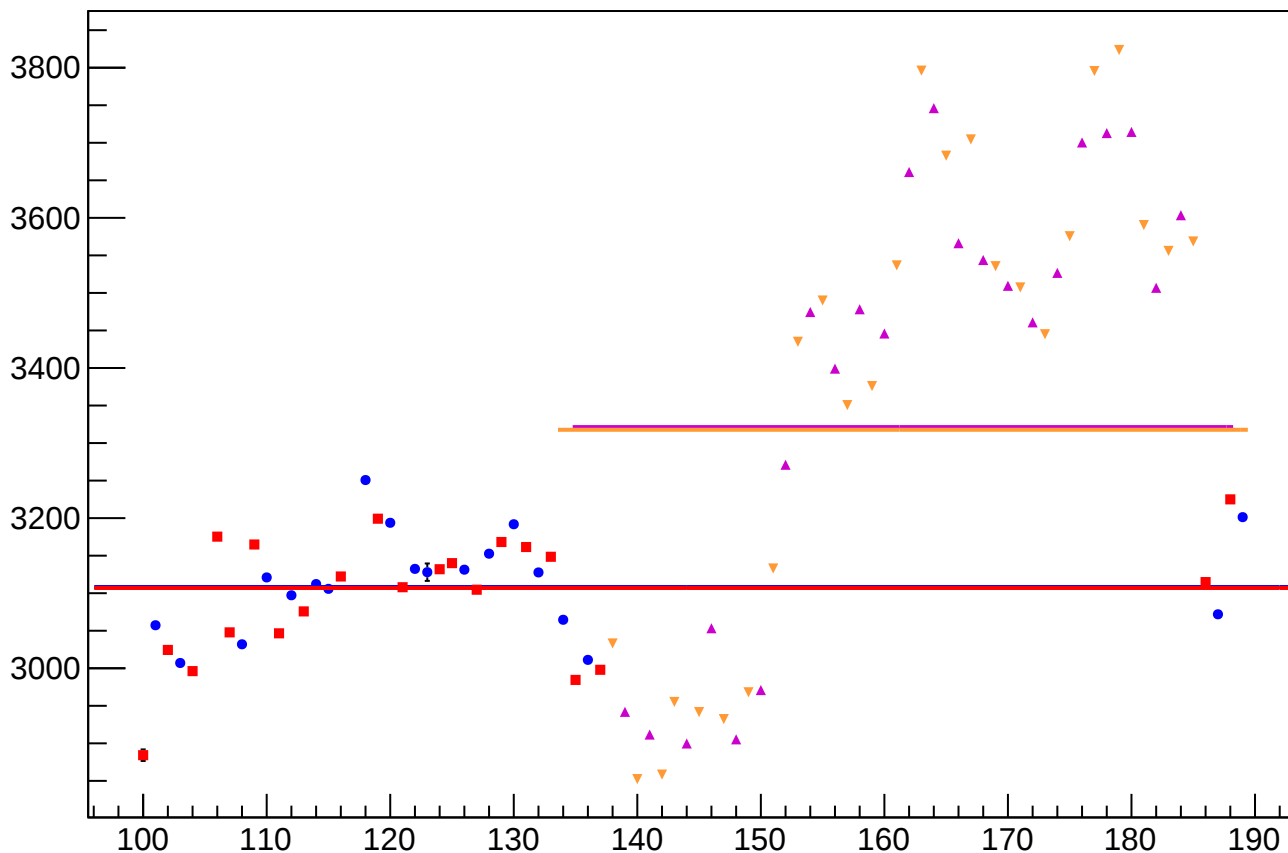
Right: -13.051±/-0.783 χ^2/NDF : 1287.4/39

In: -5.021±/-0.656 χ^2/NDF : 798.9/41

Out: -7.451±/-0.629 χ^2/NDF : 966.0/45

All: -6.288±/-0.454 χ^2/NDF : 1772.0/87

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: 3106.963 $\pm$ 0.758 χ^2 /NDF: 10490.9/20

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

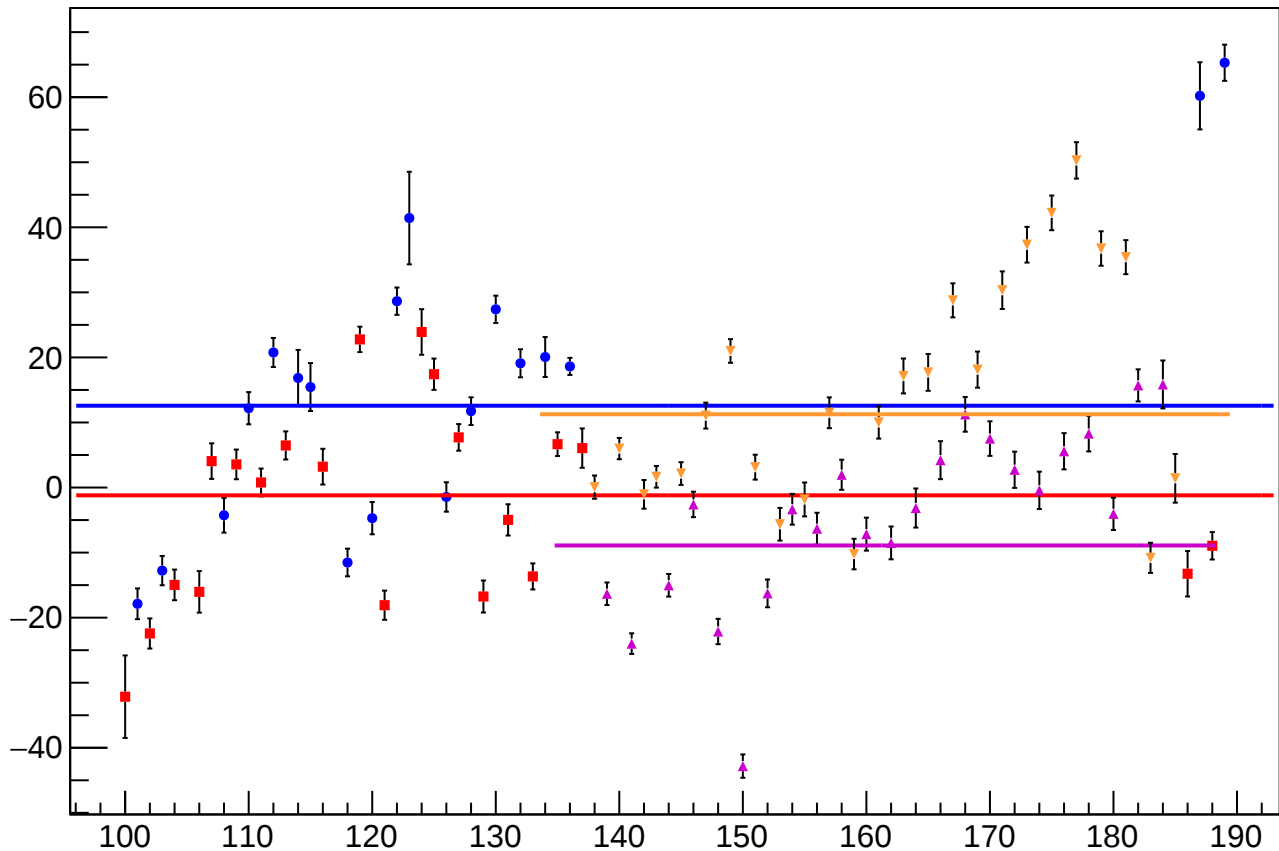
Right: 3107.536 $\pm$ 0.554 χ^2 /NDF: 18730.3/39

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

Out: 3245.187 $\pm$ 0.445 χ^2 /NDF:398075.6/45

All: 3248.166 $\pm$ 0.321 χ^2 /NDF: 737207.4/87

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 12.577 $\pm$ 0.546 χ^2 /NDF: 1169.6/18

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

Right Out: -1.197 $\pm$ 0.524 χ^2 /NDF: 655.7/20

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

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

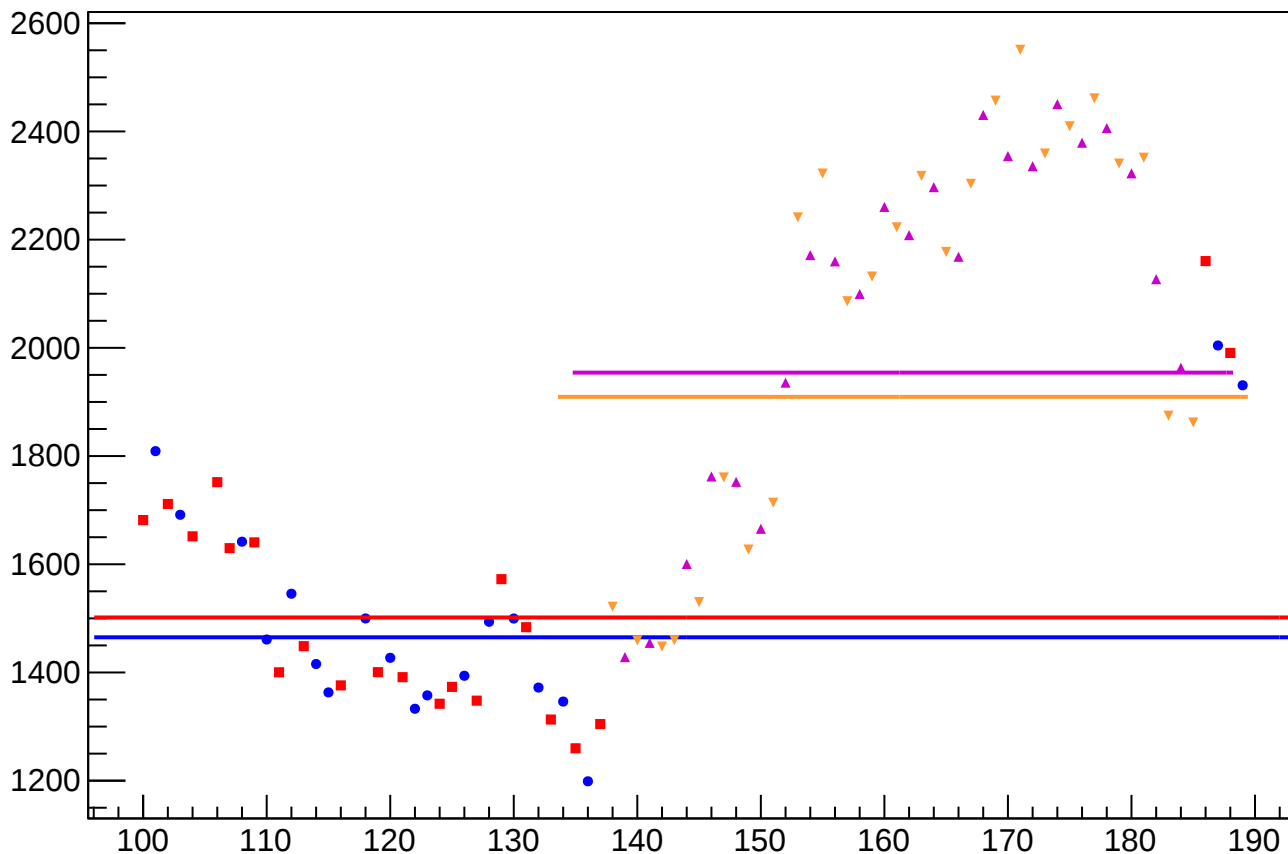
Right: 5.405 $\pm$ 0.378 χ^2 /NDF: 2156.3/39

In: 0.399 $\pm$ 0.360 χ^2 /NDF:2982.4/41

Out: 5.920 $\pm$ 0.343 χ^2 /NDF:2120.4/45

All: 3.287 $\pm$ 0.248 χ^2 /NDF: 5226.1/87

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: 1501.662 $\pm$ 0.371 χ^2 /NDF: 333265.6/20

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

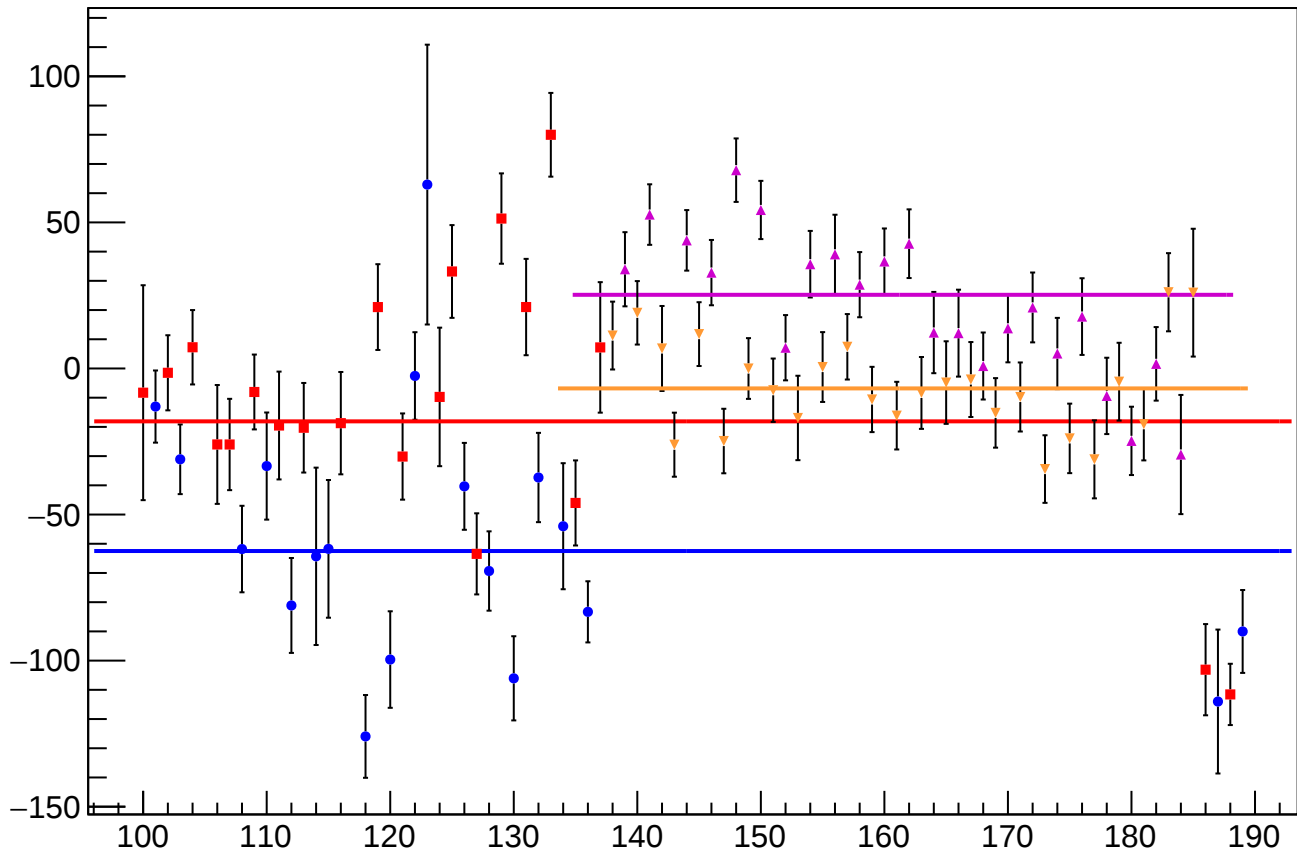
Right: 1484.100 $\pm$ 0.267 χ^2 /NDF: 592876.2/39

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

Out: 1734.467 $\pm$ 0.243 χ^2 /NDF:2422692.2/45

All: 1738.227 $\pm$ 0.176 χ^2 /NDF: 4632120.1/87

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: -18.102 ± 3.355 χ^2/NDF : 222.4/20

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

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

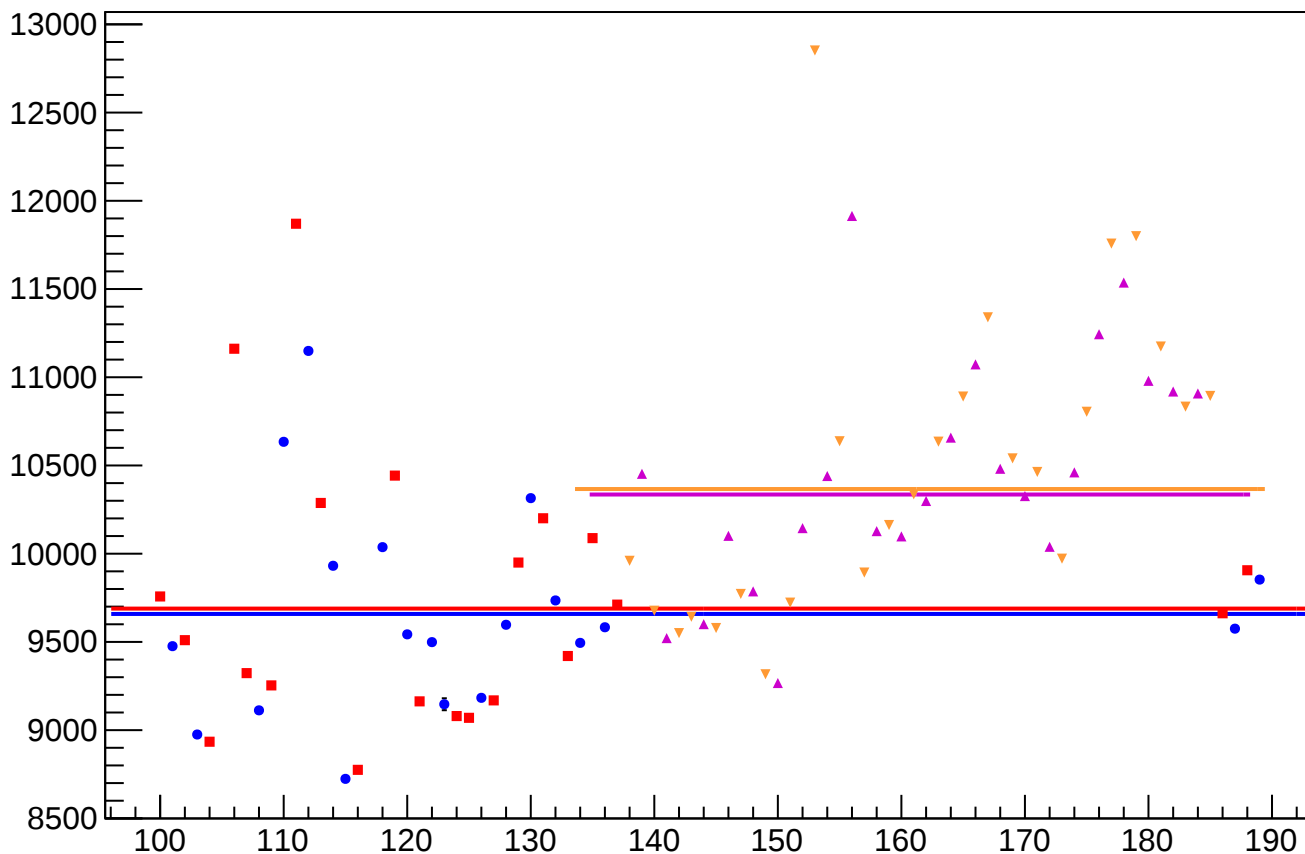
Right: -38.895 ± 2.446 χ^2/NDF : 405.8/39

In: -3.389 ± 2.041 χ^2/NDF : 596.4/41

Out: -10.689 ± 1.964 χ^2/NDF : 272.2/45

All: -7.179 ± 1.415 χ^2/NDF : 875.2/87

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: 9688.870 ± 2.373 $\chi^2/\text{NDF}: 78282.8/20$

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

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

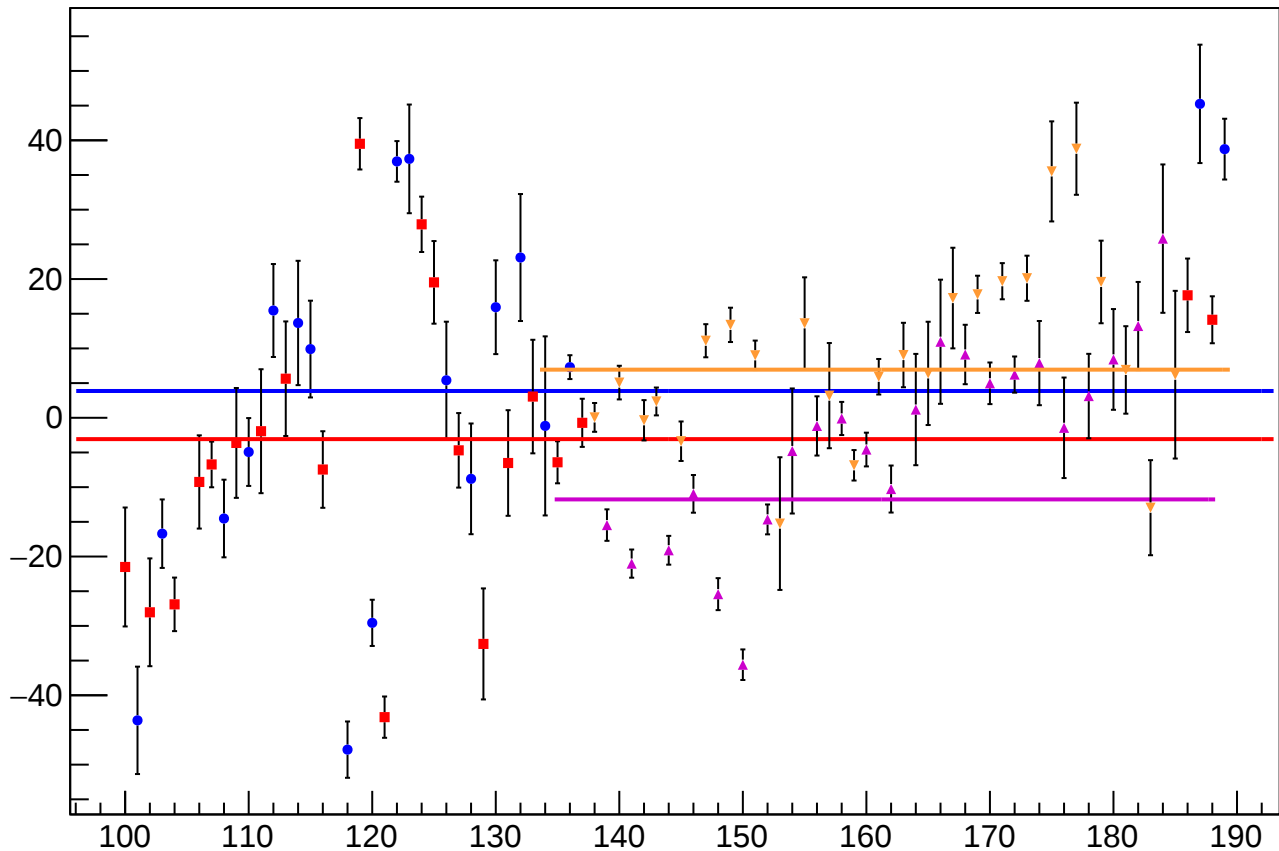
Right: 9674.647 ± 1.730 $\chi^2/\text{NDF}: 122775.7/39$

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

Out: 10134.337 ± 1.389 $\chi^2/\text{NDF}: 343309.8/45$

All: 10124.862 ± 1.001 $\chi^2/\text{NDF}: 563332.7/87$

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: -3.075 ± 1.020 $\chi^2/\text{NDF}: 502.1/20$

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

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

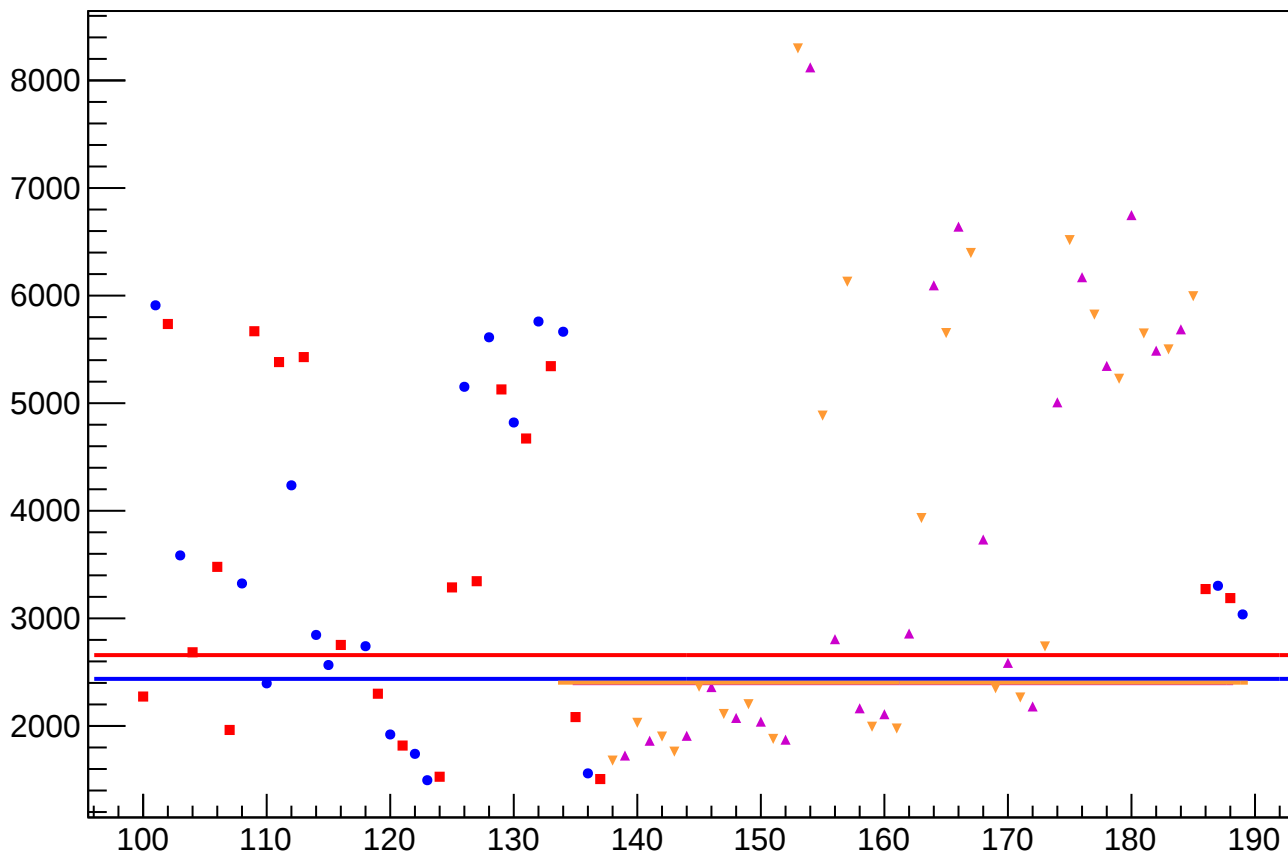
Right: 0.362 ± 0.724 $\chi^2/\text{NDF}: 1109.1/39$

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

Out: 4.117 ± 0.541 $\chi^2/\text{NDF}: 775.2/45$

All: -1.528 ± 0.385 $\chi^2/\text{NDF}: 2139.9/87$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2437.634 ± 0.728 $\chi^2/\text{NDF}: 2650912.7/18$

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

Right Out: 2658.597 ± 0.721 $\chi^2/\text{NDF}: 2445752.2/20$

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

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

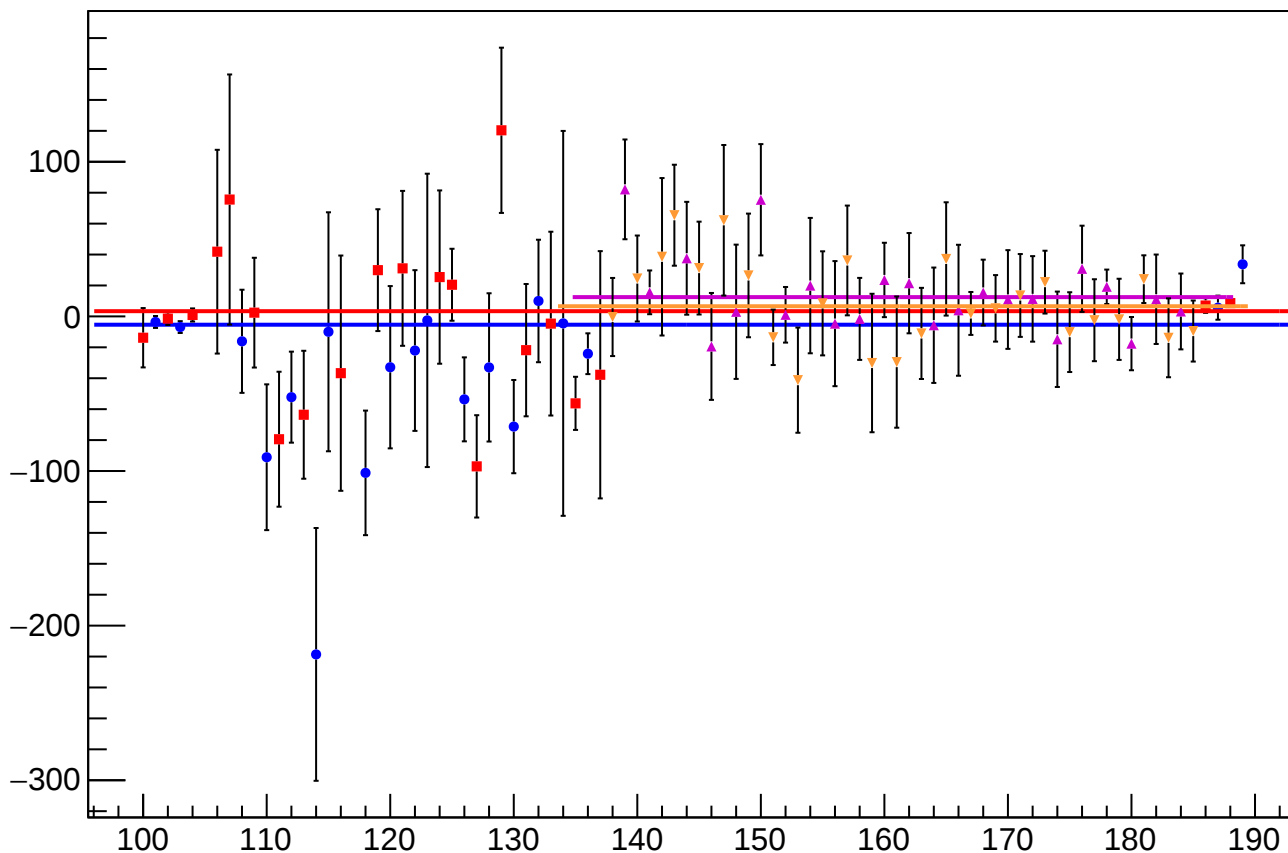
Right: 2549.144 ± 0.512 $\chi^2/\text{NDF}: 5143180.3/39$

In: 2409.045 ± 0.388 $\chi^2/\text{NDF}: 8051988.0/41$

Out: 2474.565 ± 0.383 $\chi^2/\text{NDF}: 8882430.2/45$

All: 2442.242 ± 0.272 $\chi^2/\text{NDF}: 16948872.9/86$

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: 3.372 ± 1.873 $\chi^2/\text{NDF}: 41.9/20$

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

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

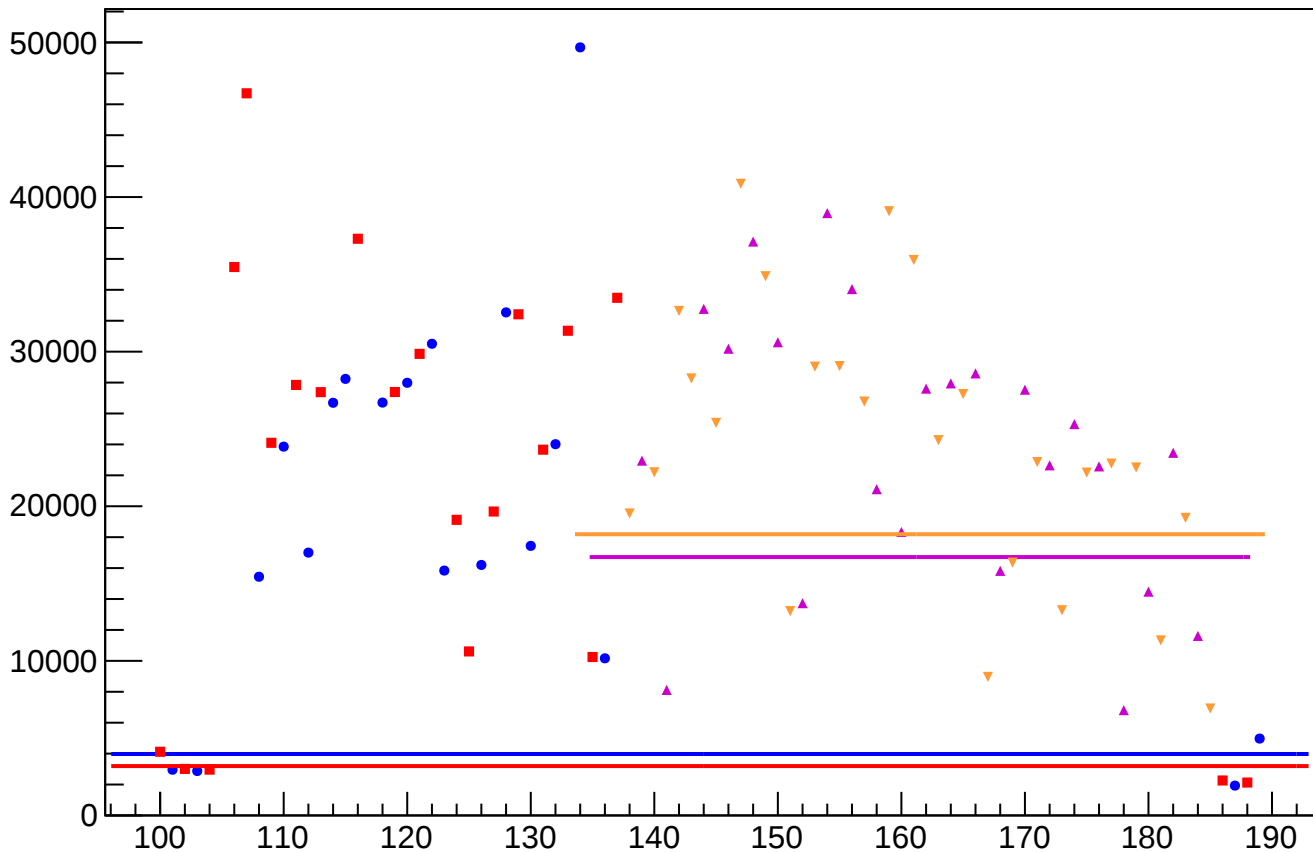
Right: 0.073 ± 1.479 $\chi^2/\text{NDF}: 91.9/39$

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

Out: 3.754 ± 1.758 $\chi^2/\text{NDF}: 59.0/45$

All: 1.459 ± 1.366 $\chi^2/\text{NDF}: 130.7/87$

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: 3194.104 ± 1.325 $\chi^2/\text{NDF}: 8131835.3/20$

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

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

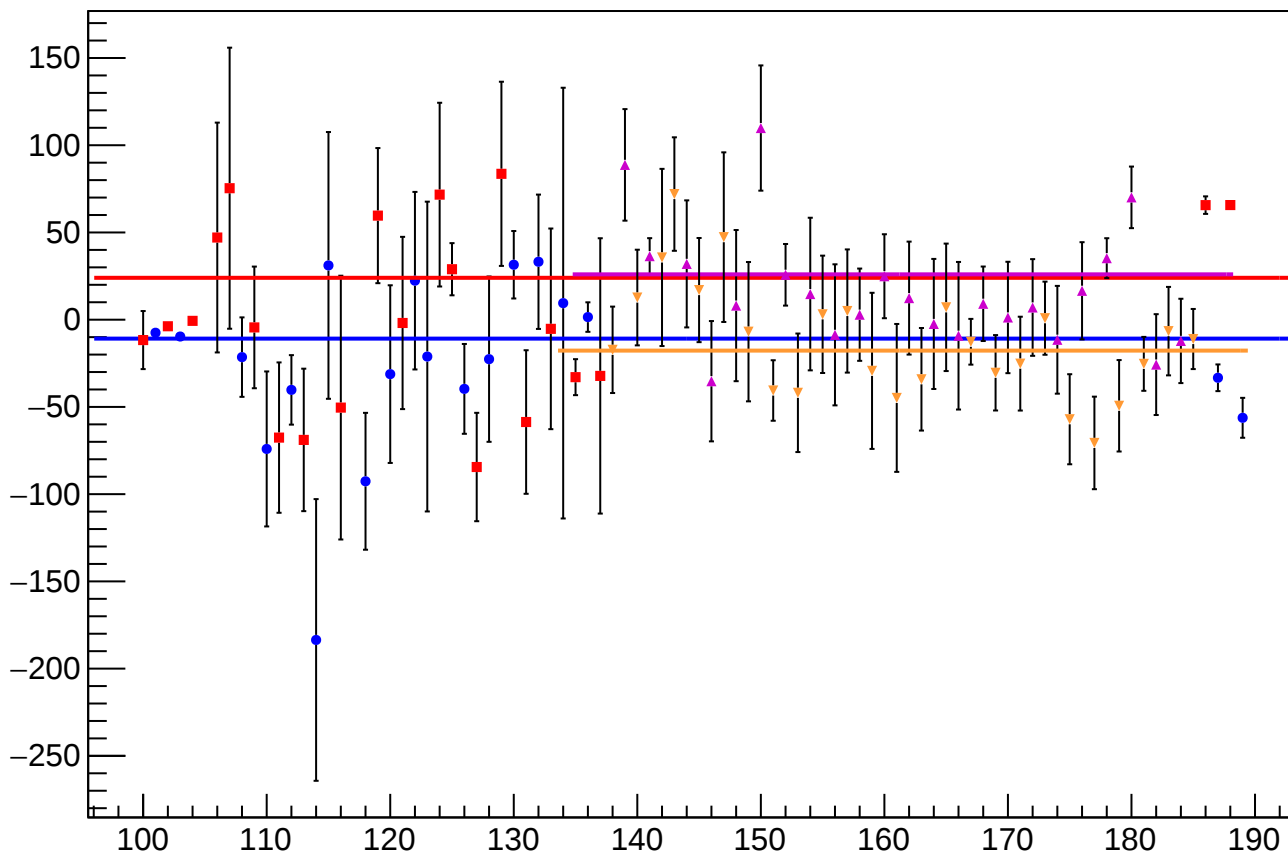
Right: 3488.466 ± 1.046 $\chi^2/\text{NDF}: 14398160.8/39$

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

Out: 4990.880 ± 1.243 $\chi^2/\text{NDF}: 28749354.1/45$

All: 5530.398 ± 0.966 $\chi^2/\text{NDF}: 52006397.9/8$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -10.845 $\pm$ 1.712 χ^2/NDF : 50.0/18

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

Right Out: 24.009 $\pm$ 1.495 χ^2/NDF : 545.5/20

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

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

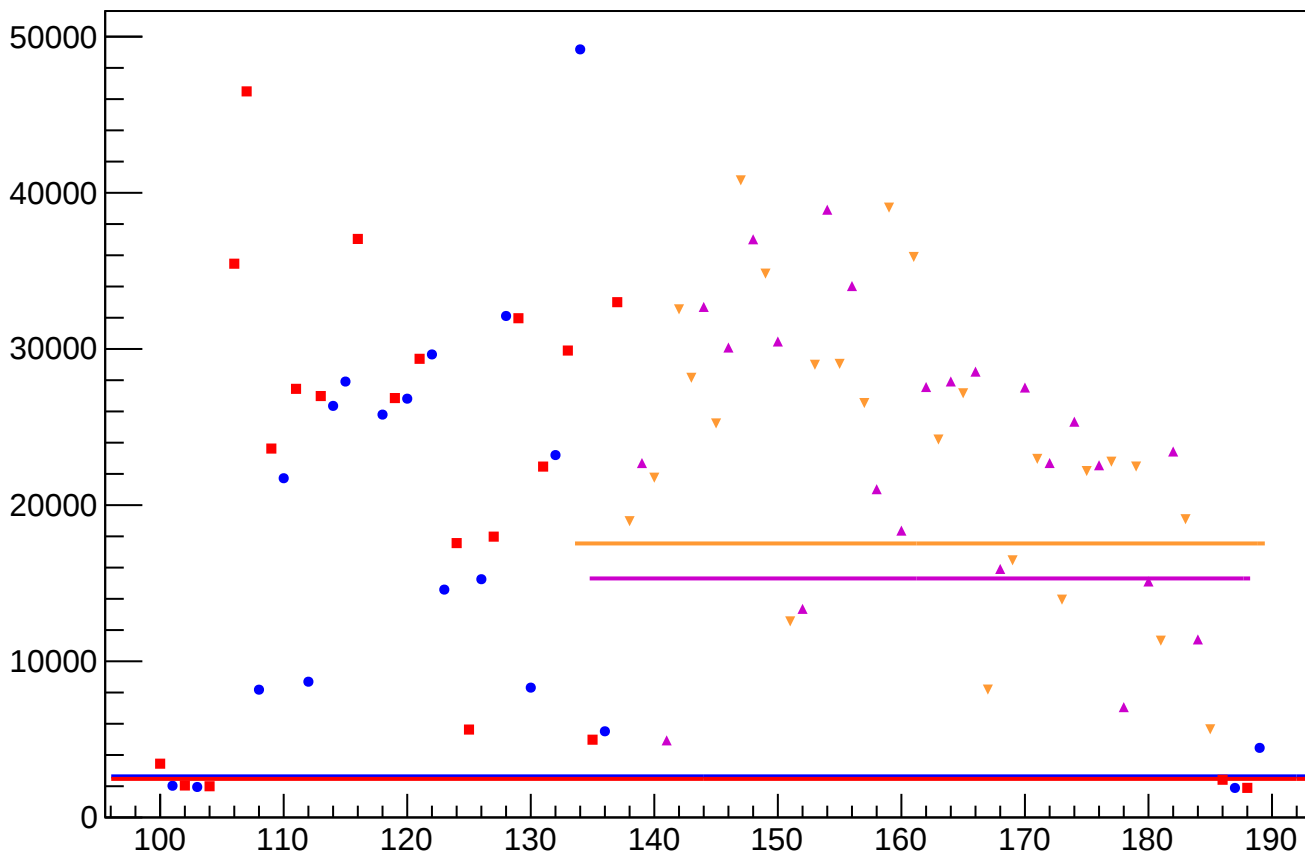
Right: 8.936 $\pm$ 1.126 χ^2/NDF : 830.6/39

In: -6.669 $\pm$ 1.612 χ^2/NDF :135.1/41

Out: 20.553 $\pm$ 1.432 χ^2/NDF :637.2/45

All: 8.553 $\pm$ 1.070 χ^2/NDF : 931.6/87

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: 2470.160 ± 1.057 $\chi^2/\text{NDF}: 7953099.9/20$

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

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

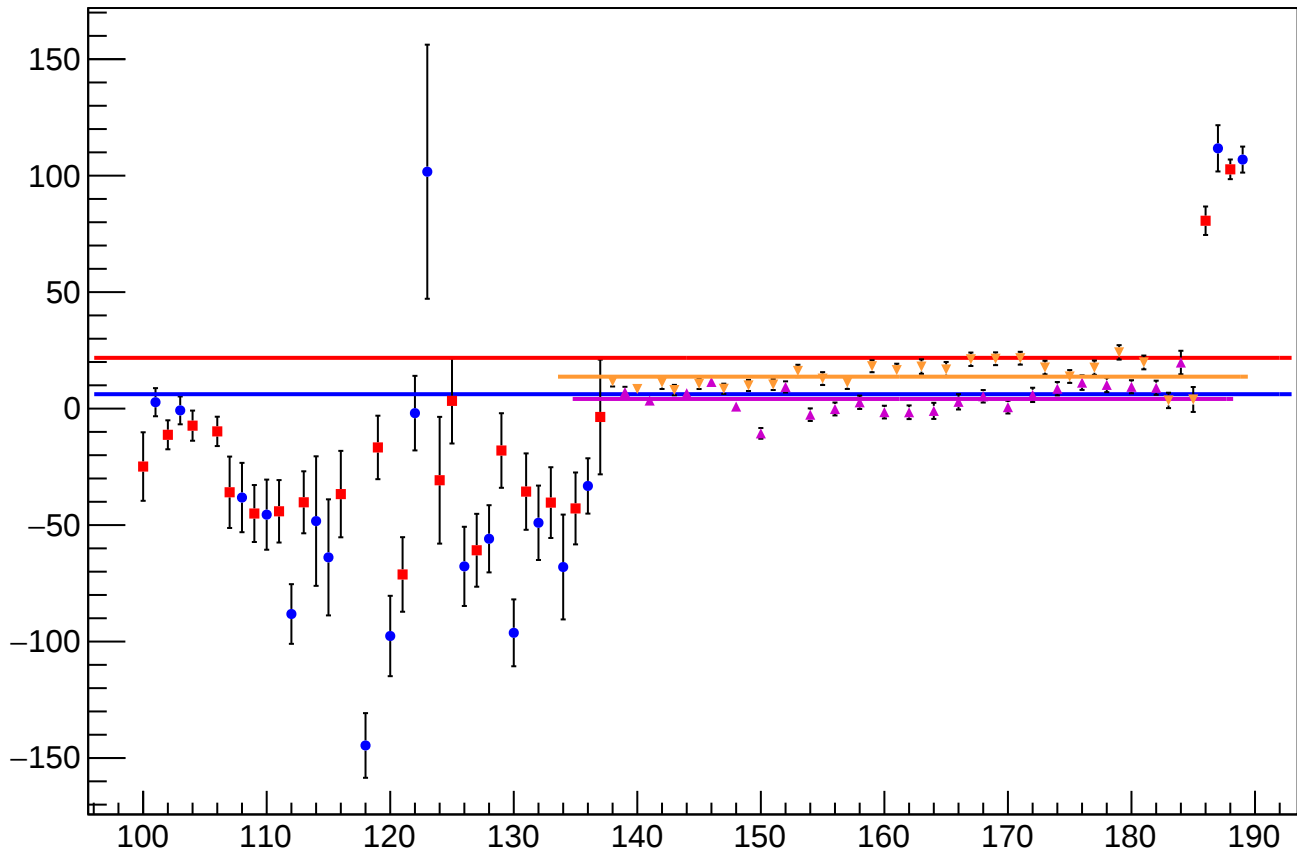
Right: 2539.786 ± 0.796 $\chi^2/\text{NDF}: 13602632.6/39$

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

Out: 3718.784 ± 1.012 $\chi^2/\text{NDF}: 30705929.6/45$

All: 3872.679 ± 0.757 $\chi^2/\text{NDF}: 56539756.6/8$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 6.185 $\pm$ 2.544 χ^2/NDF : 806.4/18

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

Right Out: 21.788 $\pm$ 2.117 χ^2/NDF : 772.4/20

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

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

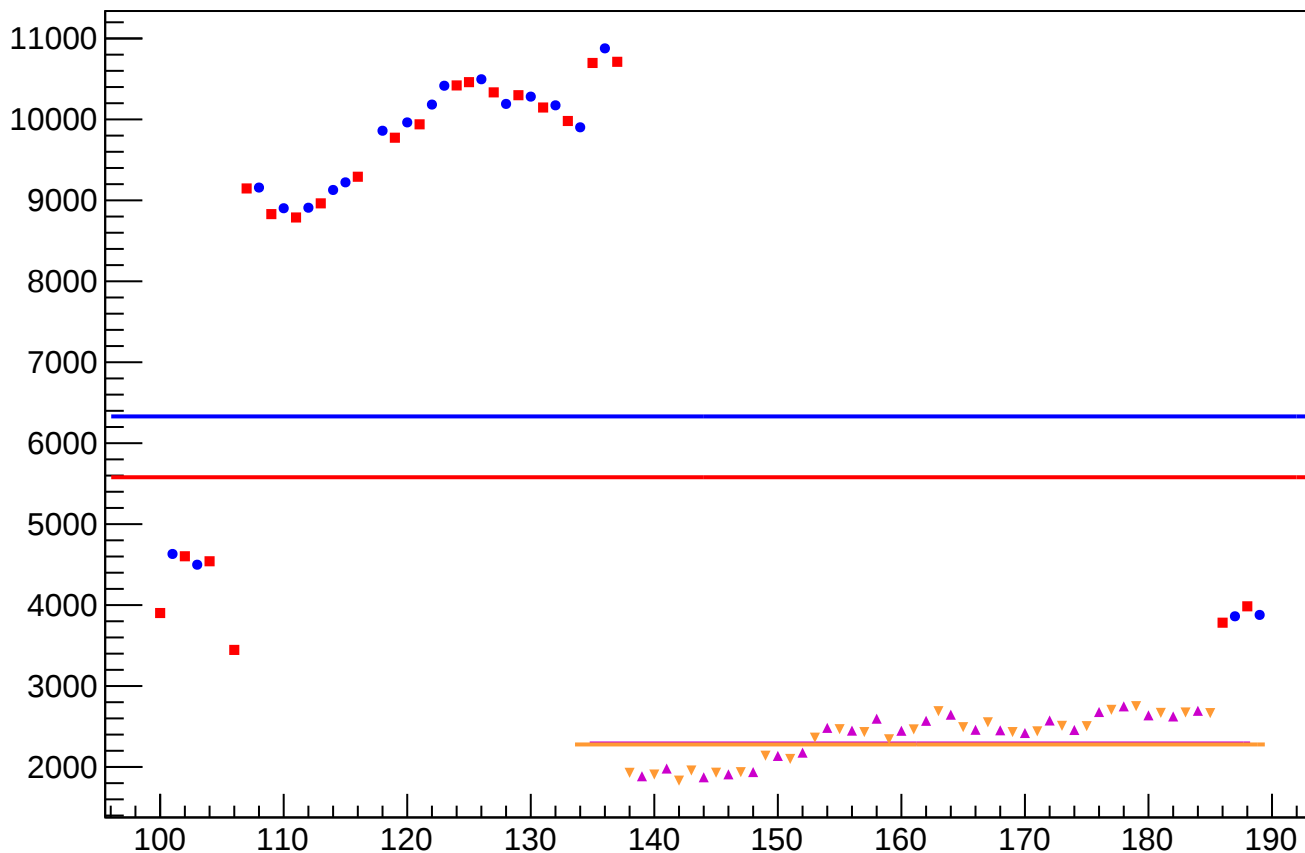
Right: 15.405 $\pm$ 1.627 χ^2/NDF : 1601.0/39

In: 4.233 $\pm$ 0.542 χ^2/NDF : 918.7/41

Out: 14.195 $\pm$ 0.519 χ^2/NDF : 875.9/45

All: 9.431 $\pm$ 0.375 χ^2/NDF : 1970.8/87

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 6330.761+/-1.799 χ^2/NDF : 2334082.2/18

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

Right Out: 5579.325+/-1.497 χ^2/NDF : 2920566.8/20

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

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

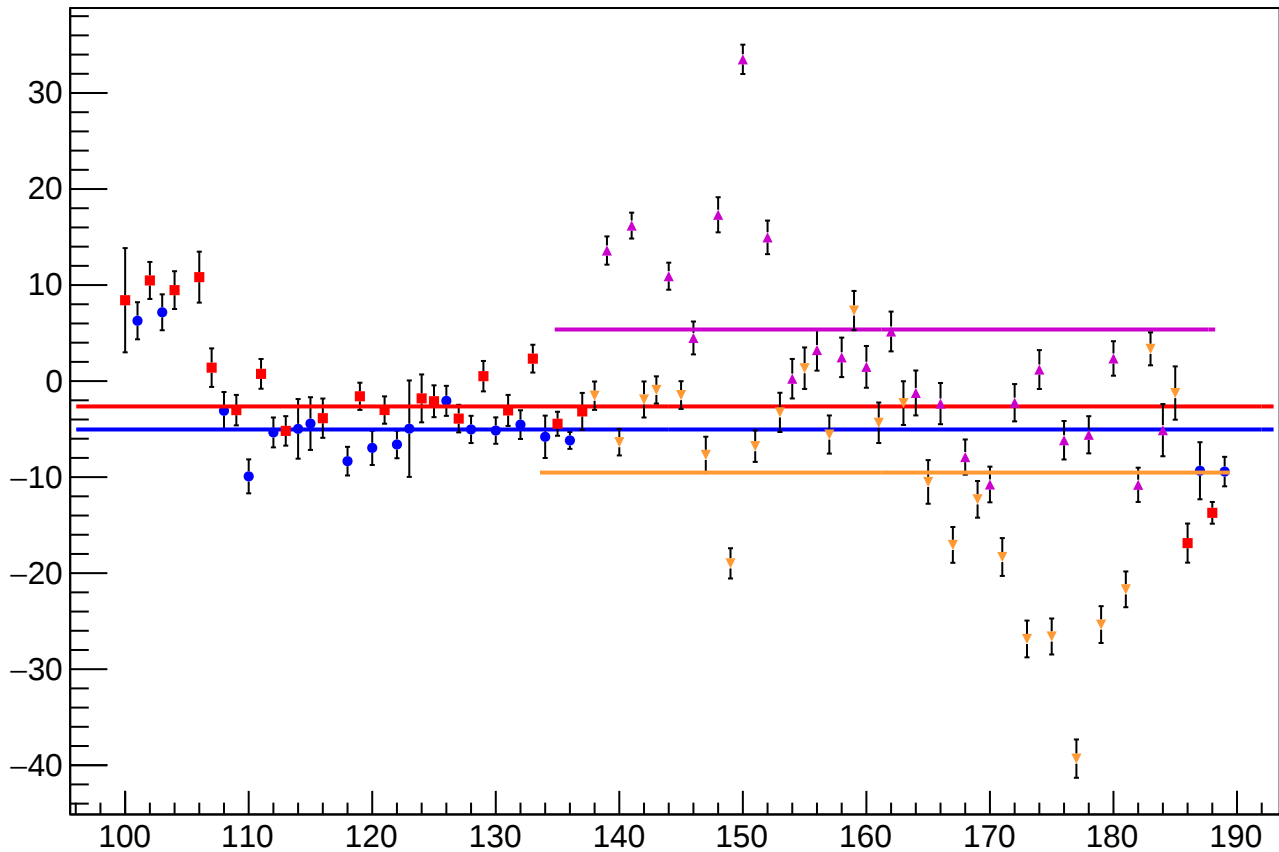
Right: 5886.762+/-1.151 χ^2/NDF : 5357726.7/39

In: 2473.851+/-0.383 χ^2/NDF : 7738778.3/41

Out: 2476.435+/-0.367 χ^2/NDF : 8098097.0/45

All: 2475.199+/-0.265 χ^2/NDF : 15836899.0/8

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: -2.640 ± 0.362 χ^2/NDF : 290.4/20

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

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

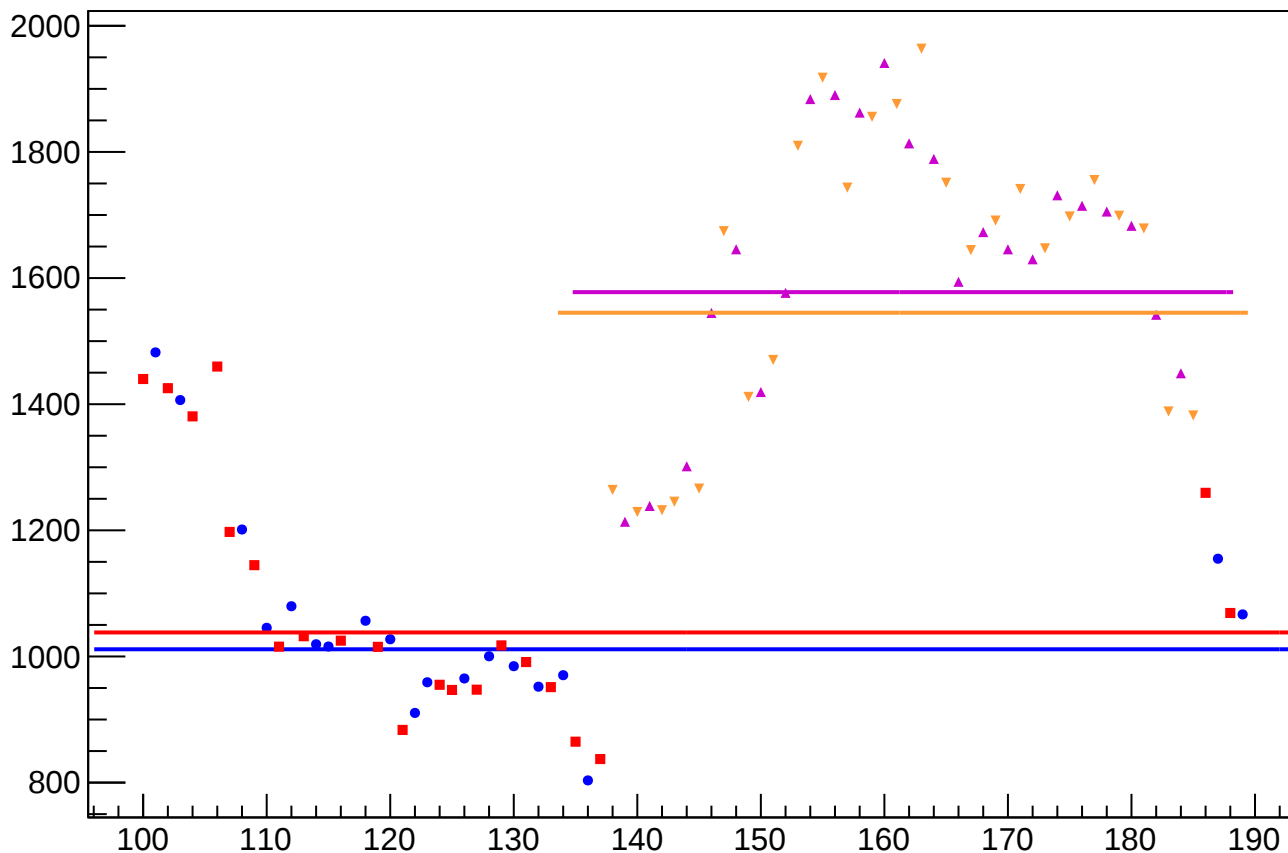
Right: -3.789 ± 0.262 χ^2/NDF : 420.0/39

In: 0.099 ± 0.269 χ^2/NDF : 1353.0/41

Out: -6.058 ± 0.257 χ^2/NDF : 1353.8/45

All: -3.119 ± 0.186 χ^2/NDF : 2980.6/87

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: 1038.073 $\pm$ 0.256 χ^2 /NDF: 359900.5/20

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

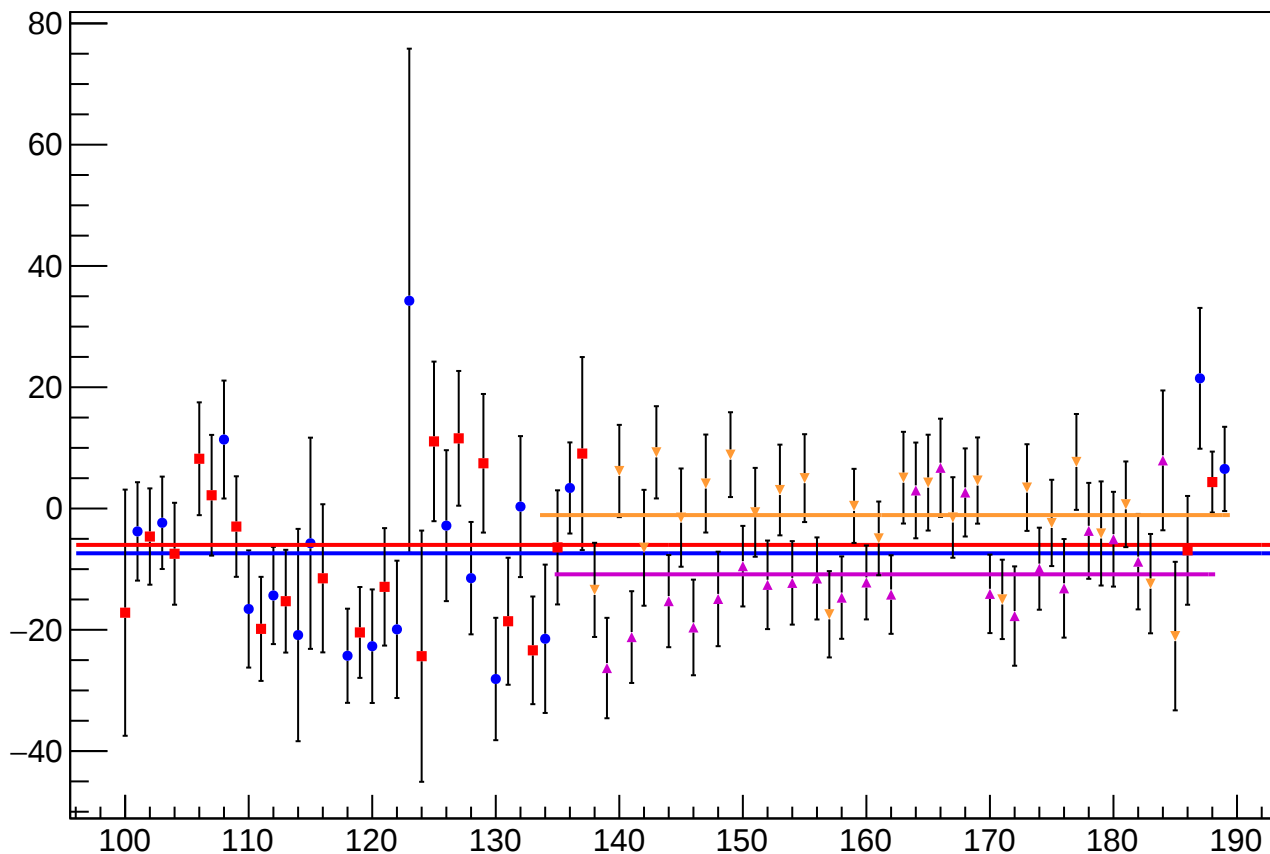
Right: 1025.294 $\pm$ 0.185 χ^2 /NDF: 734790.9/39

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

Out: 1289.774 $\pm$ 0.182 χ^2 /NDF: 3147915.4/45

All: 1290.284 $\pm$ 0.131 χ^2 /NDF: 6358922.1/87

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -7.384 $\pm$ 2.236 χ^2/NDF : 34.8/18

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

Right Out: -6.000 $\pm$ 2.023 χ^2/NDF : 28.5/20

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

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

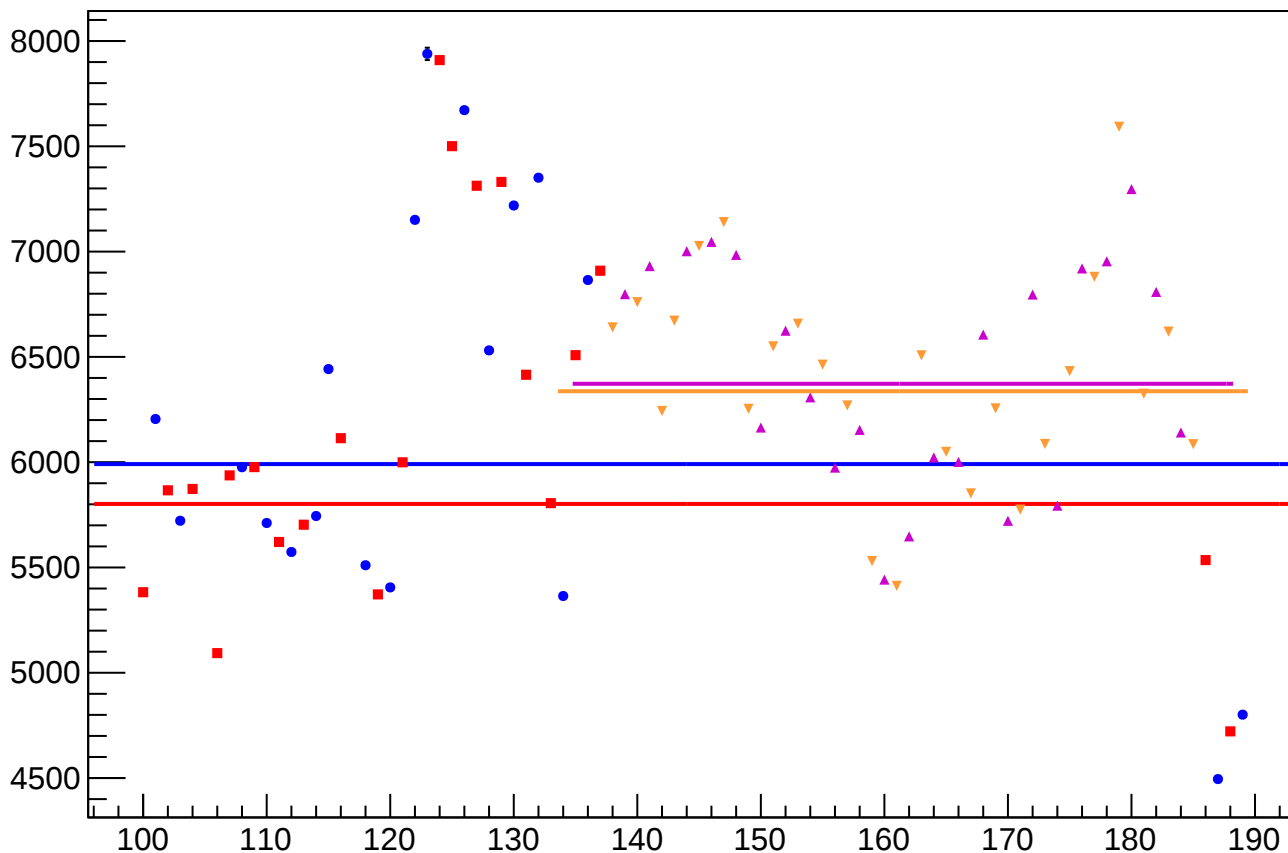
Right: -6.623 $\pm$ 1.500 χ^2/NDF : 63.6/39

In: -9.734 $\pm$ 1.269 χ^2/NDF : 60.8/41

Out: -2.808 $\pm$ 1.198 χ^2/NDF : 59.9/45

All: -6.072 $\pm$ 0.871 χ^2/NDF : 136.4/87

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5990.955 ± 1.581 $\chi^2/\text{NDF}: 278024.9/18$

Left Out: 6336.876 ± 1.052 $\chi^2/\text{NDF}: 222912.5/24$

Right Out: 5801.677 ± 1.431 $\chi^2/\text{NDF}: 272771.3/20$

Left In: 6372.349 ± 1.090 $\chi^2/\text{NDF}: 247257.0/22$

Left: 6353.974 ± 0.757 $\chi^2/\text{NDF}: 470718.0/47$

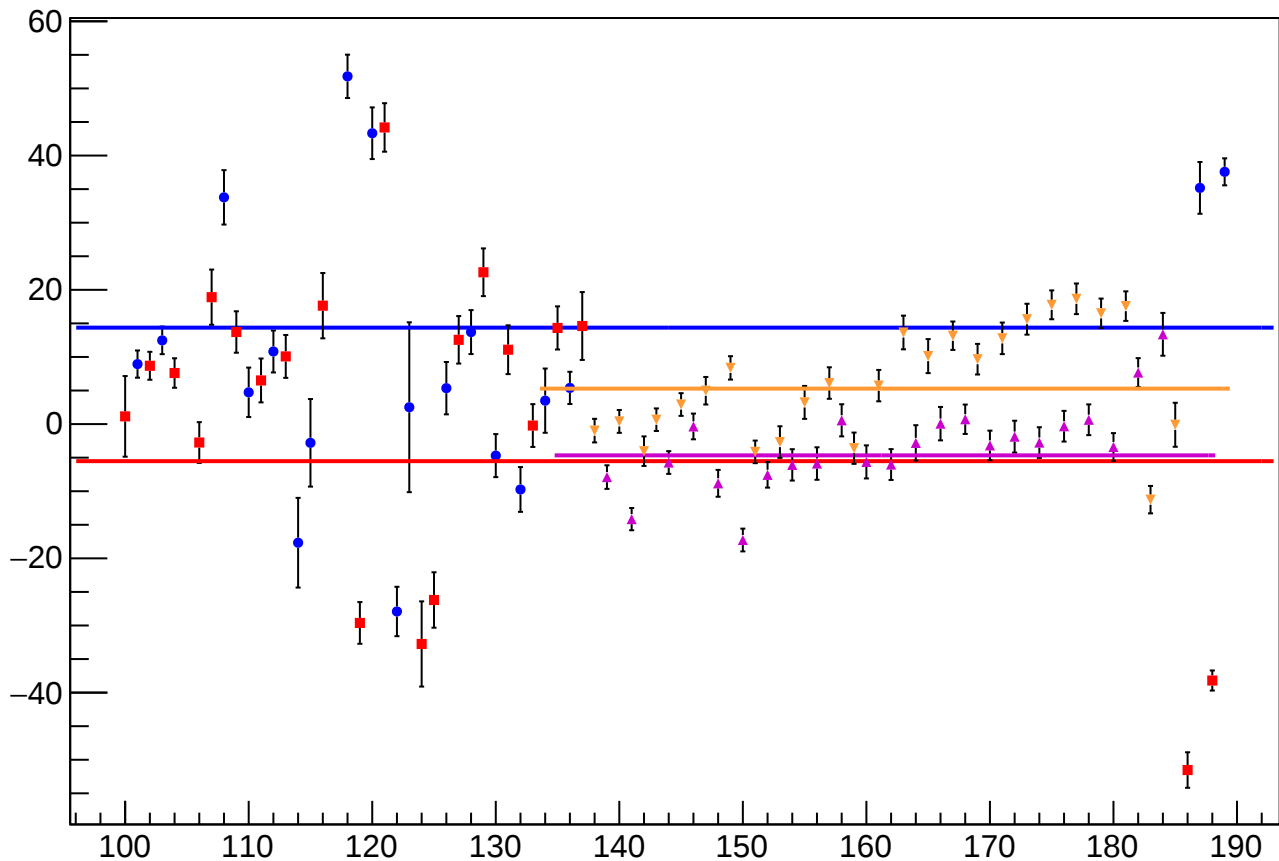
Right: 5886.888 ± 1.061 $\chi^2/\text{NDF}: 558677.3/39$

In: 6249.448 ± 0.897 $\chi^2/\text{NDF}: 564727.2/41$

Out: 6149.130 ± 0.847 $\chi^2/\text{NDF}: 586550.5/45$

All: 6196.408 ± 0.616 $\chi^2/\text{NDF}: 1157884.3/87$

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 14.367 ± 0.728 χ^2/NDF : 667.5/18

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

Right Out: -5.520 ± 0.660 χ^2/NDF : 1457.2/20

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

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

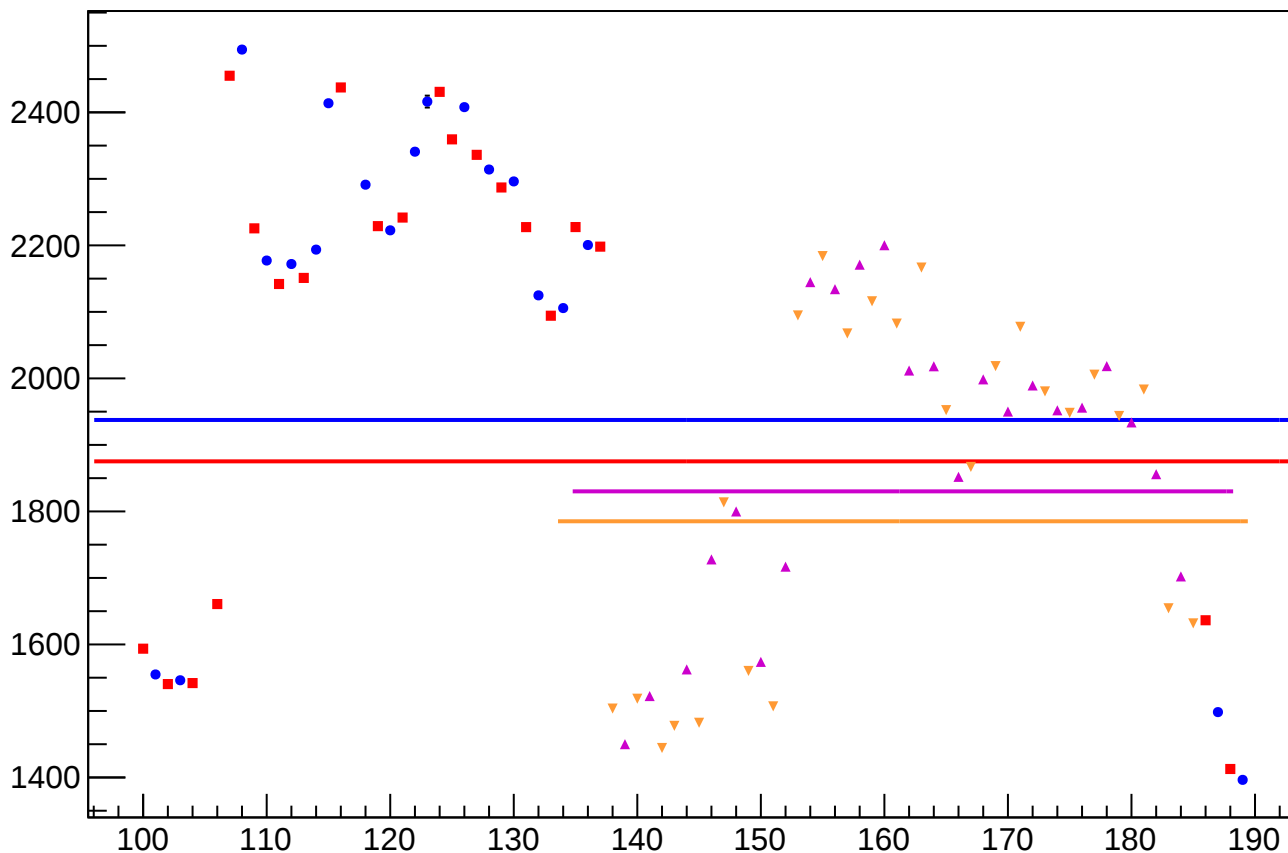
Right: 3.450 ± 0.489 χ^2/NDF : 2534.0/39

In: 0.486 ± 0.379 χ^2/NDF : 1361.9/41

Out: 2.164 ± 0.355 χ^2/NDF : 2013.7/45

All: 1.380 ± 0.259 χ^2/NDF : 3386.1/87

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: 1875.274 $\pm$ 0.467 χ^2/NDF : 650452.2/20

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

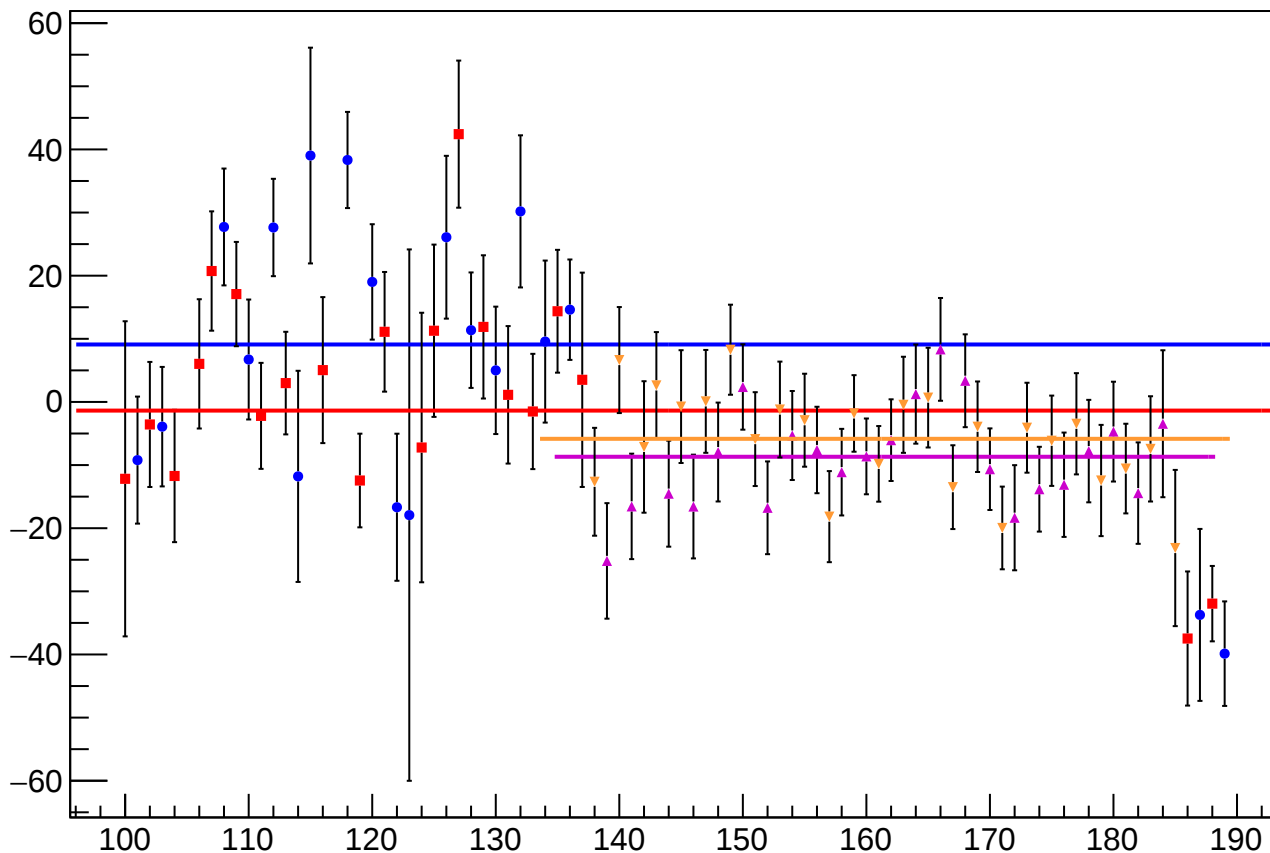
Right: 1903.337 $\pm$ 0.346 χ^2/NDF : 1219498.5/39

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

Out: 1811.199 $\pm$ 0.251 χ^2/NDF : 1427572.2/45

All: 1833.625 $\pm$ 0.183 χ^2/NDF : 2545788.0/87

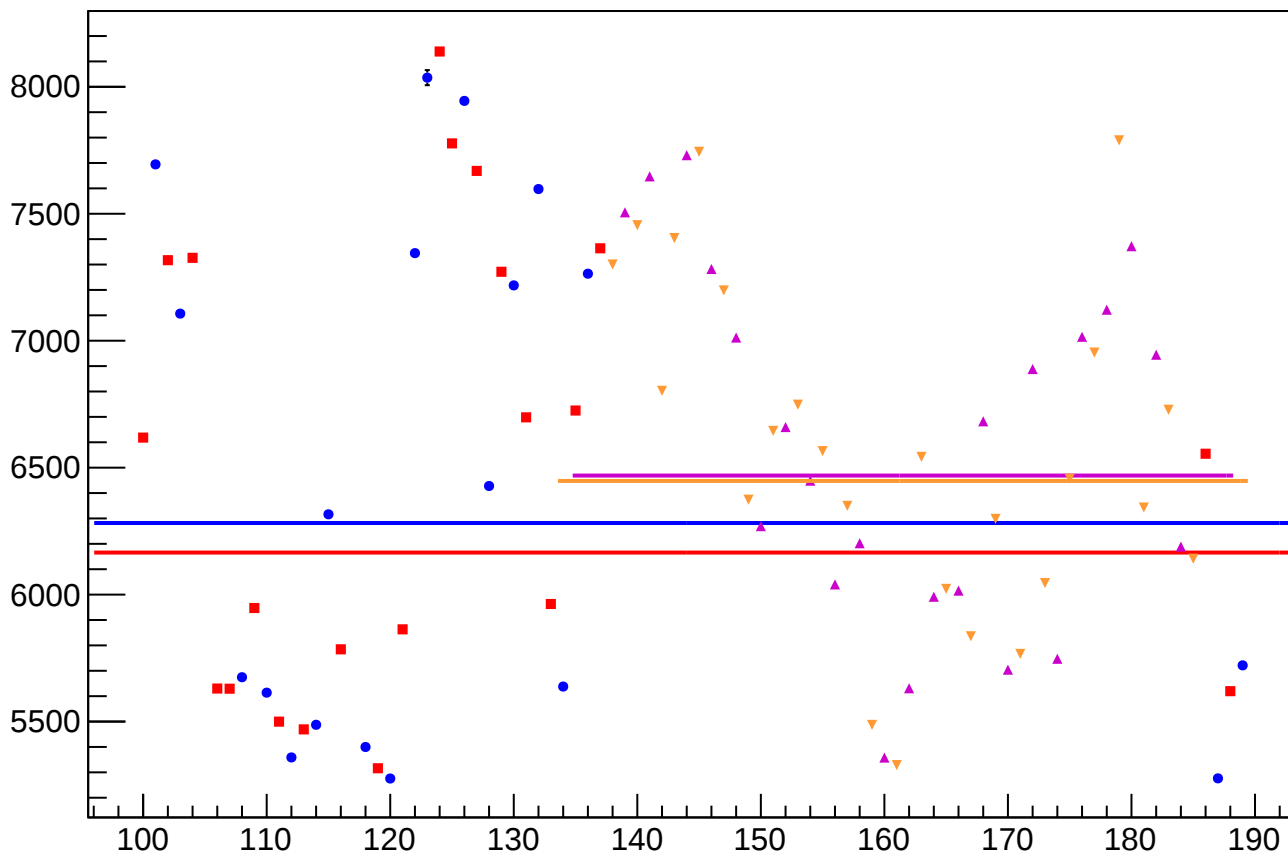
diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 9.102 ± 2.348 $\chi^2/\text{NDF}: 91.3/18$
 Left Out: -5.840 ± 1.518 $\chi^2/\text{NDF}: 23.3/24$
 Right Out: -1.369 ± 2.149 $\chi^2/\text{NDF}: 73.7/20$
 Left In: -8.683 ± 1.571 $\chi^2/\text{NDF}: 21.9/22$

Left: -7.214 ± 1.092 $\chi^2/\text{NDF}: 47.0/47$
 Right: 3.404 ± 1.586 $\chi^2/\text{NDF}: 175.8/39$
 In: -3.187 ± 1.306 $\chi^2/\text{NDF}: 152.8/41$
 Out: -4.352 ± 1.240 $\chi^2/\text{NDF}: 99.9/45$
 All: -3.799 ± 0.899 $\chi^2/\text{NDF}: 253.2/87$

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: 6165.623 $\pm$ 1.520 χ^2/NDF : 262274.9/20

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

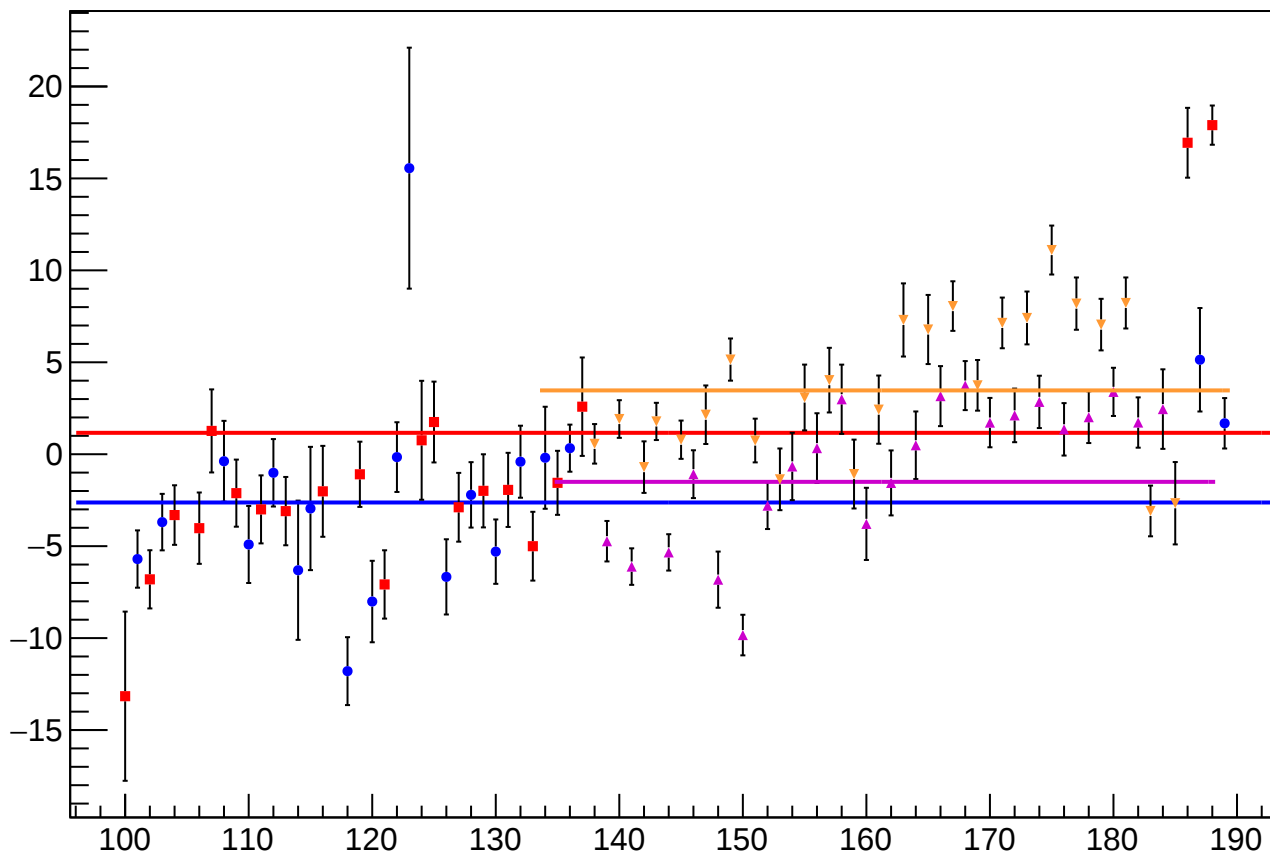
Right: 6218.685 $\pm$ 1.121 χ^2/NDF : 572887.1/39

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

Out: 6353.805 $\pm$ 0.877 χ^2/NDF : 656928.7/45

All: 6381.007 $\pm$ 0.636 χ^2/NDF : 1358969.8/87

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: 1.164 ± 0.410 χ^2/NDF : 424.6/20

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

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

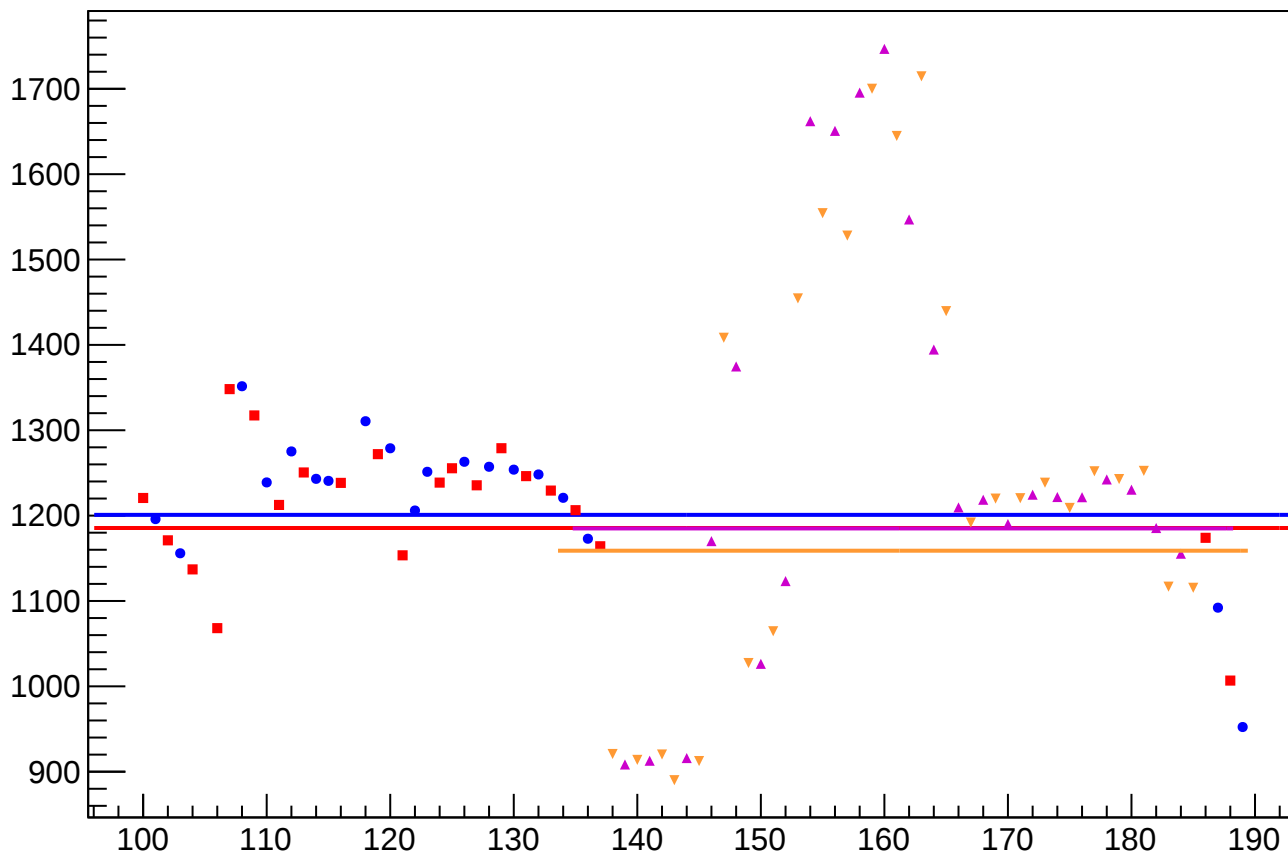
Right: -0.580 ± 0.301 χ^2/NDF : 543.3/39

In: -1.839 ± 0.243 χ^2/NDF : 286.7/41

Out: 2.750 ± 0.229 χ^2/NDF : 622.3/45

All: 0.592 ± 0.167 χ^2/NDF : 1097.5/87

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: 1185.496 $\pm$ 0.290 χ^2/NDF : 107327.0/20

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

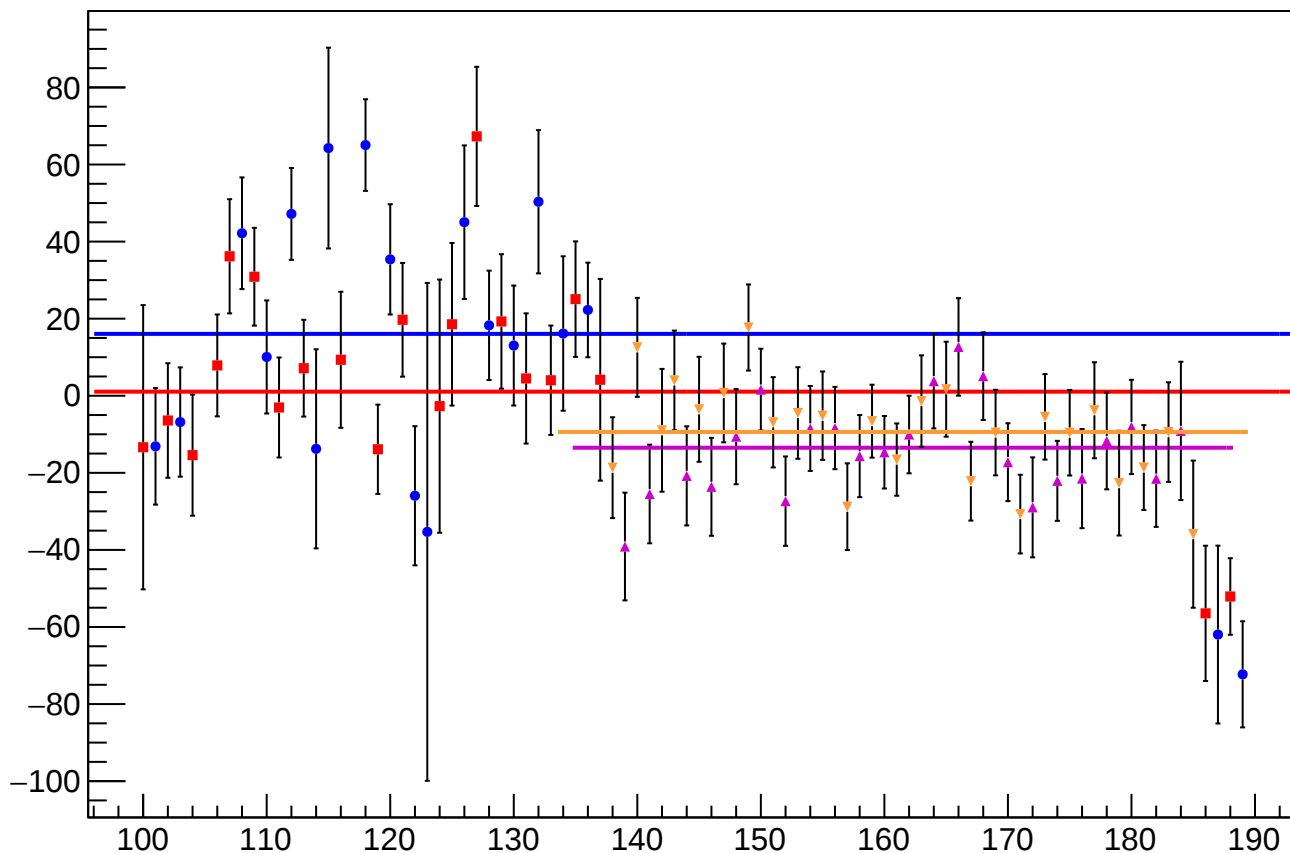
Right: 1192.575 $\pm$ 0.213 χ^2/NDF : 210510.2/39

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

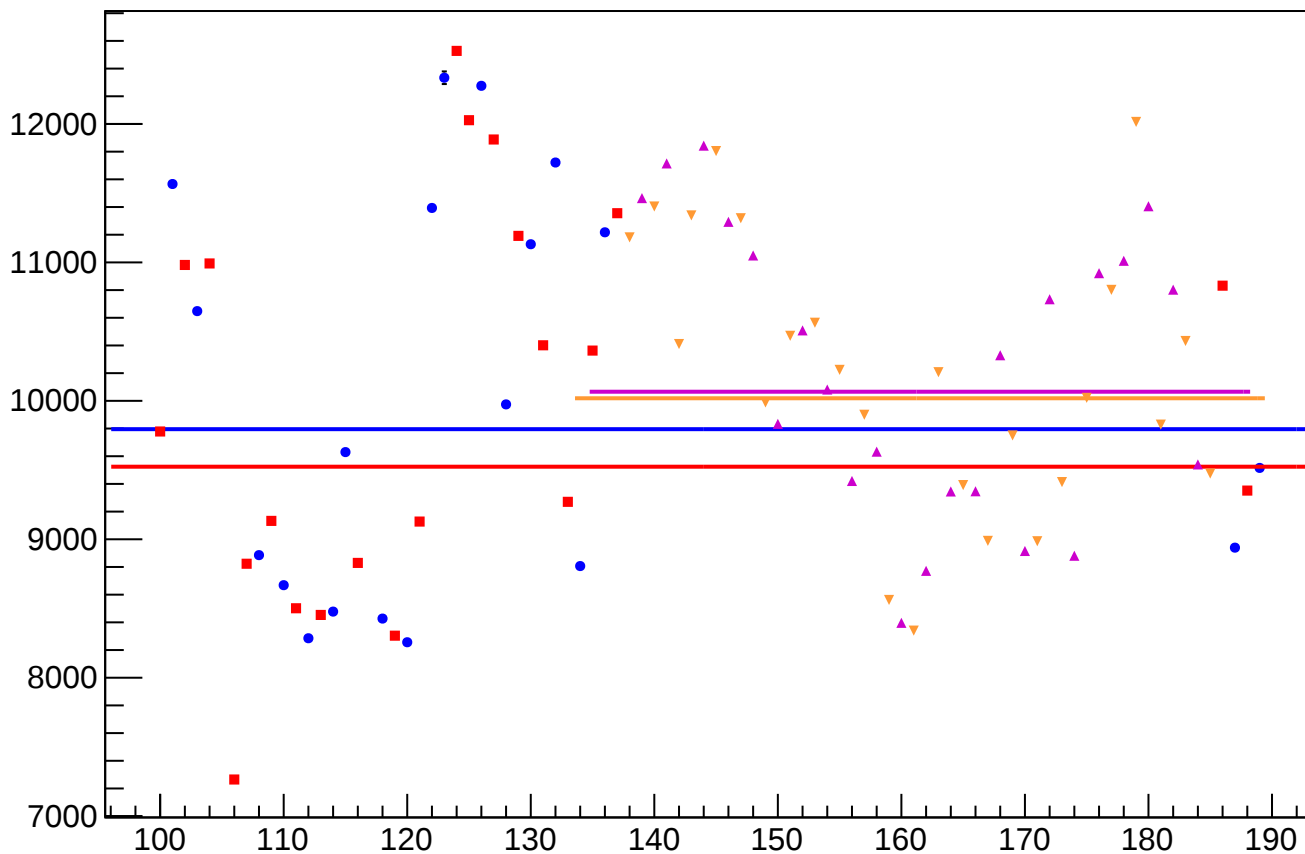
Out: 1167.198 $\pm$ 0.162 χ^2/NDF :1523534.7/45

All: 1177.798 $\pm$ 0.118 χ^2/NDF : 2826746.0/87

diff_bpm0l07X_mean vs Slug, Sign Corrected



diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9795.385 ± 2.585 $\chi^2/\text{NDF}: 262966.9/18$

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

Right Out: 9524.317 ± 2.349 $\chi^2/\text{NDF}: 286444.4/20$

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

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

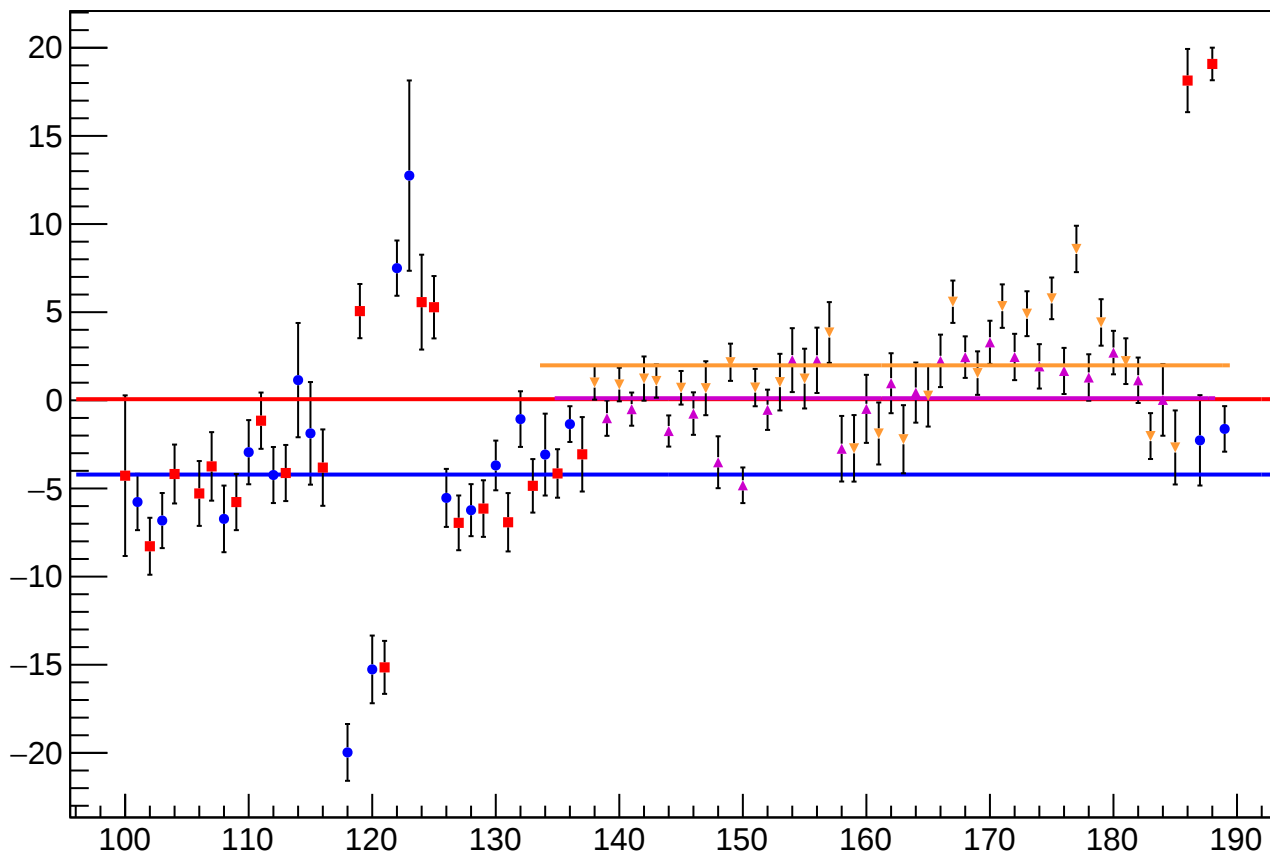
Right: 9646.923 ± 1.738 $\chi^2/\text{NDF}: 555434.1/39$

In: 9982.400 ± 1.436 $\chi^2/\text{NDF}: 628407.3/41$

Out: 9852.935 ± 1.360 $\chi^2/\text{NDF}: 660412.5/45$

All: 9914.136 ± 0.987 $\chi^2/\text{NDF}: 1293104.5/87$

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: 0.065 ± 0.356 $\chi^2/\text{NDF}: 796.8/20$

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

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

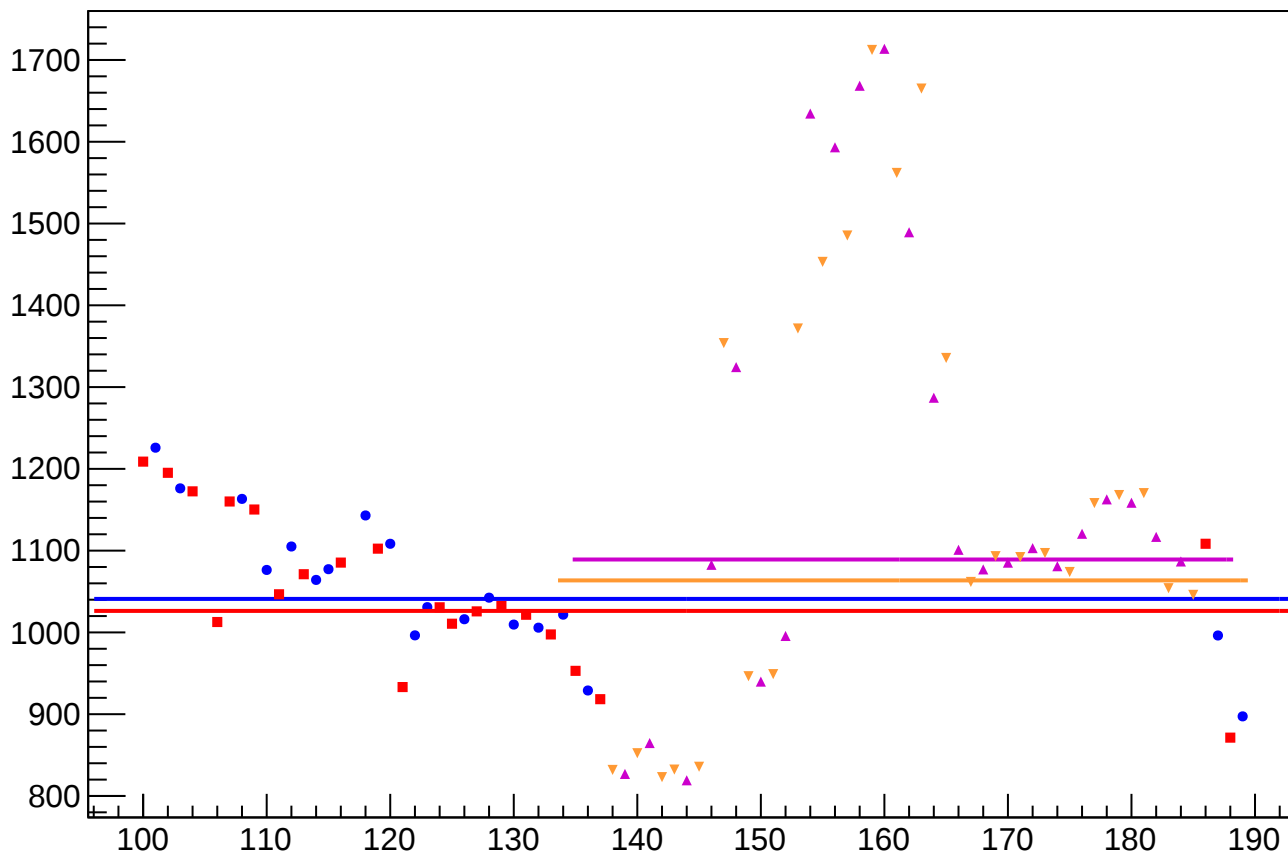
Right: -1.902 ± 0.261 $\chi^2/\text{NDF}: 1086.6/39$

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

Out: 1.334 ± 0.207 $\chi^2/\text{NDF}: 917.3/45$

All: 0.100 ± 0.151 $\chi^2/\text{NDF}: 1368.8/87$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1040.971+/-0.273 χ^2/NDF : 118964.7/18

Left Out: 1063.600+/-0.180 χ^2/NDF : 1617376.3/24

Right Out: 1026.292+/-0.252 χ^2/NDF : 150357.0/20

Left In: 1089.154+/-0.190 χ^2/NDF : 1430478.5/22

Left: 1075.700+/-0.131 χ^2/NDF : 3057378.7/47

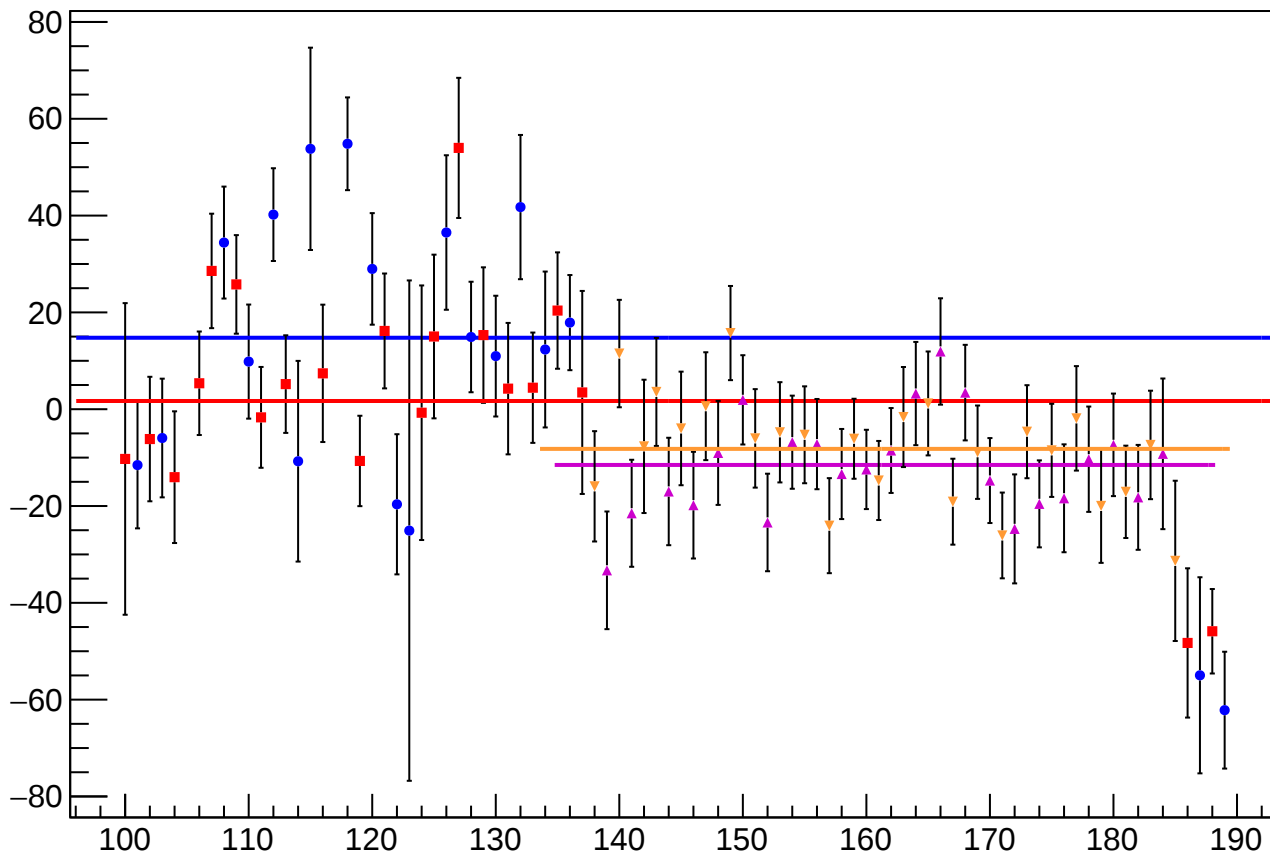
Right: 1033.043+/-0.185 χ^2/NDF : 270888.5/39

In: 1073.396+/-0.156 χ^2/NDF : 1570477.3/41

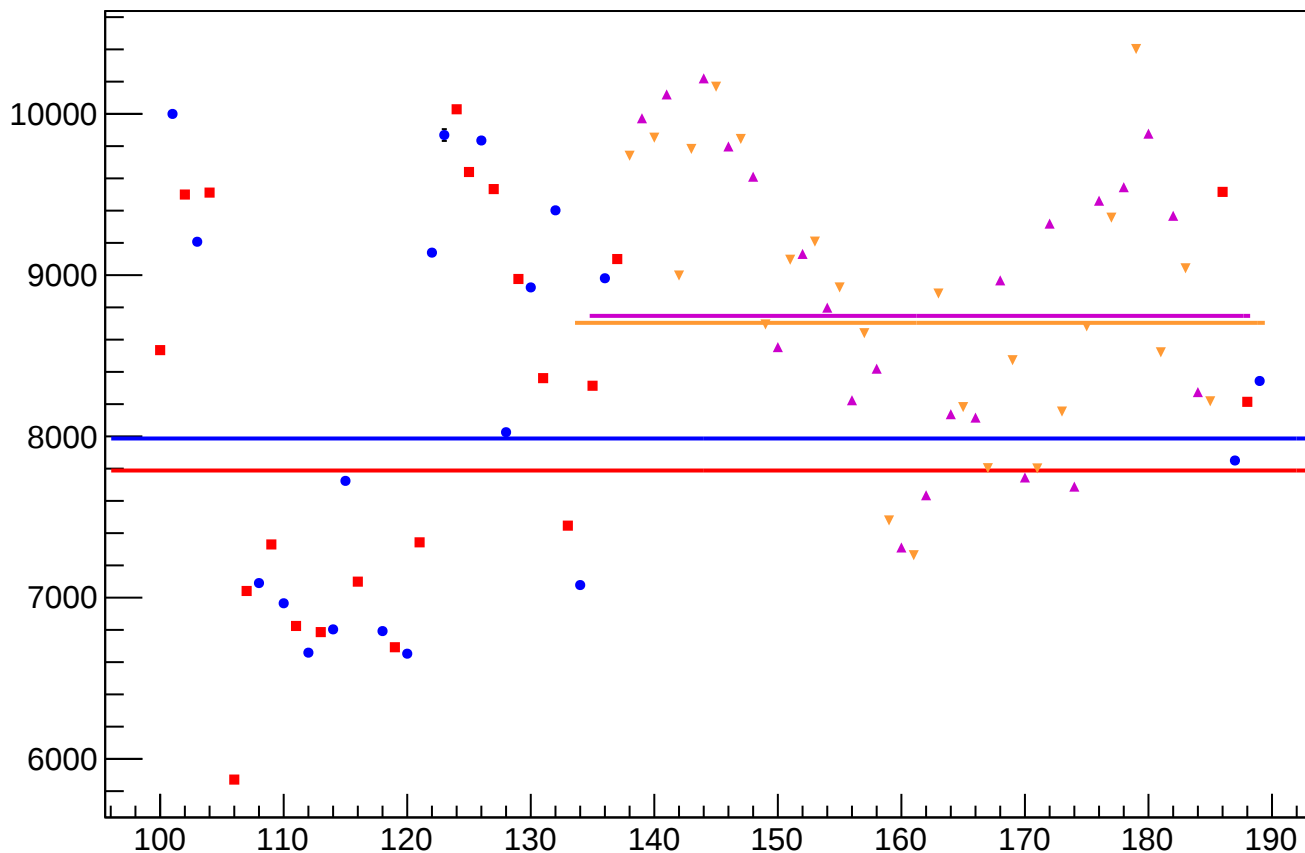
Out: 1050.947+/-0.146 χ^2/NDF : 1782274.8/45

All: 1061.475+/-0.107 χ^2/NDF : 3363768.3/87

diff_bpm0l08X_mean vs Slug, Sign Corrected



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: 7788.412 $\pm$ 1.924 χ^2/NDF : 345742.5/20

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

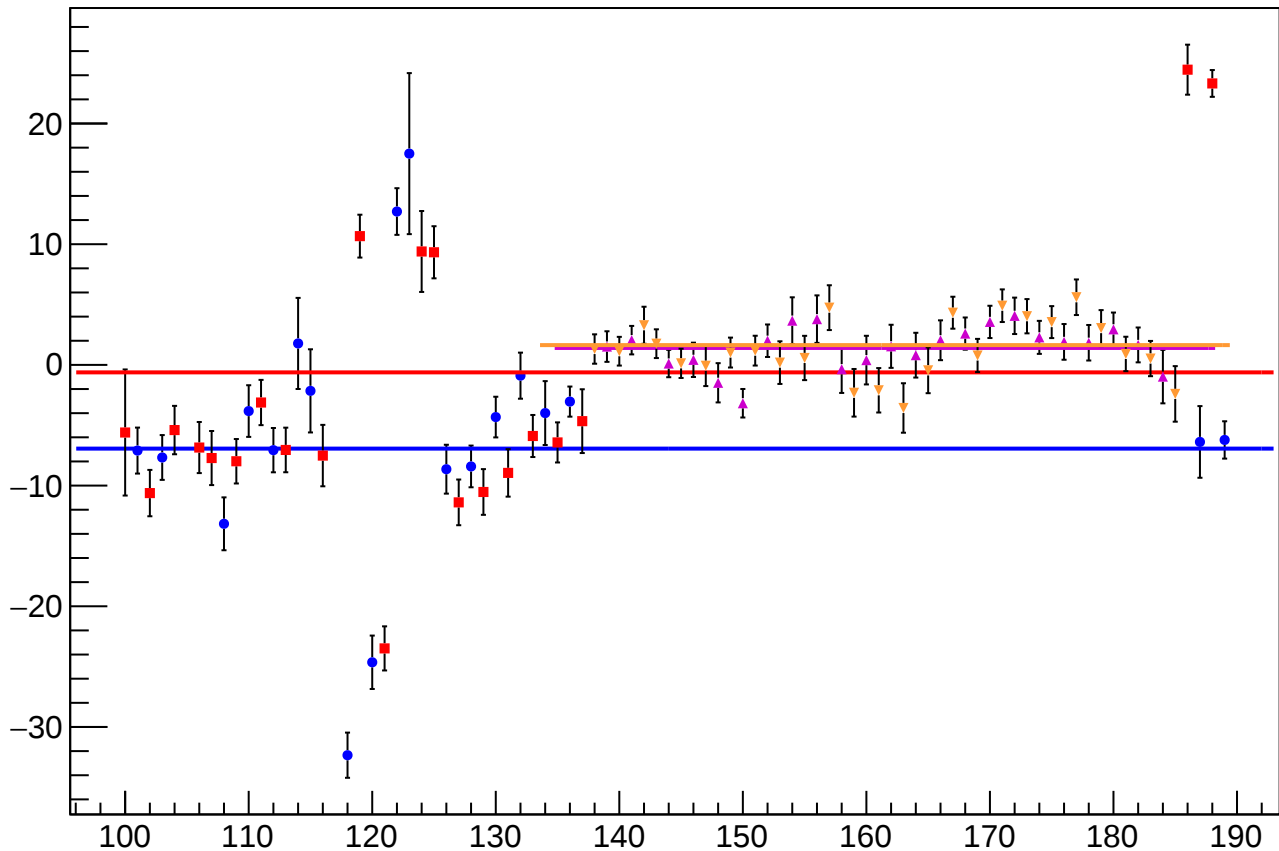
Right: 7878.576 $\pm$ 1.422 χ^2/NDF : 648163.0/39

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

Out: 8372.926 $\pm$ 1.157 χ^2/NDF : 822672.5/45

All: 8429.169 $\pm$ 0.841 χ^2/NDF : 1558613.8/87

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.936 ± 0.459 χ^2/NDF : 407.6/18

Left Out: 1.639 ± 0.294 χ^2/NDF : 51.3/24

Right Out: -0.620 ± 0.422 χ^2/NDF : 1030.3/20

Left In: 1.404 ± 0.309 χ^2/NDF : 34.1/22

Left: 1.528 ± 0.213 χ^2/NDF : 85.8/47

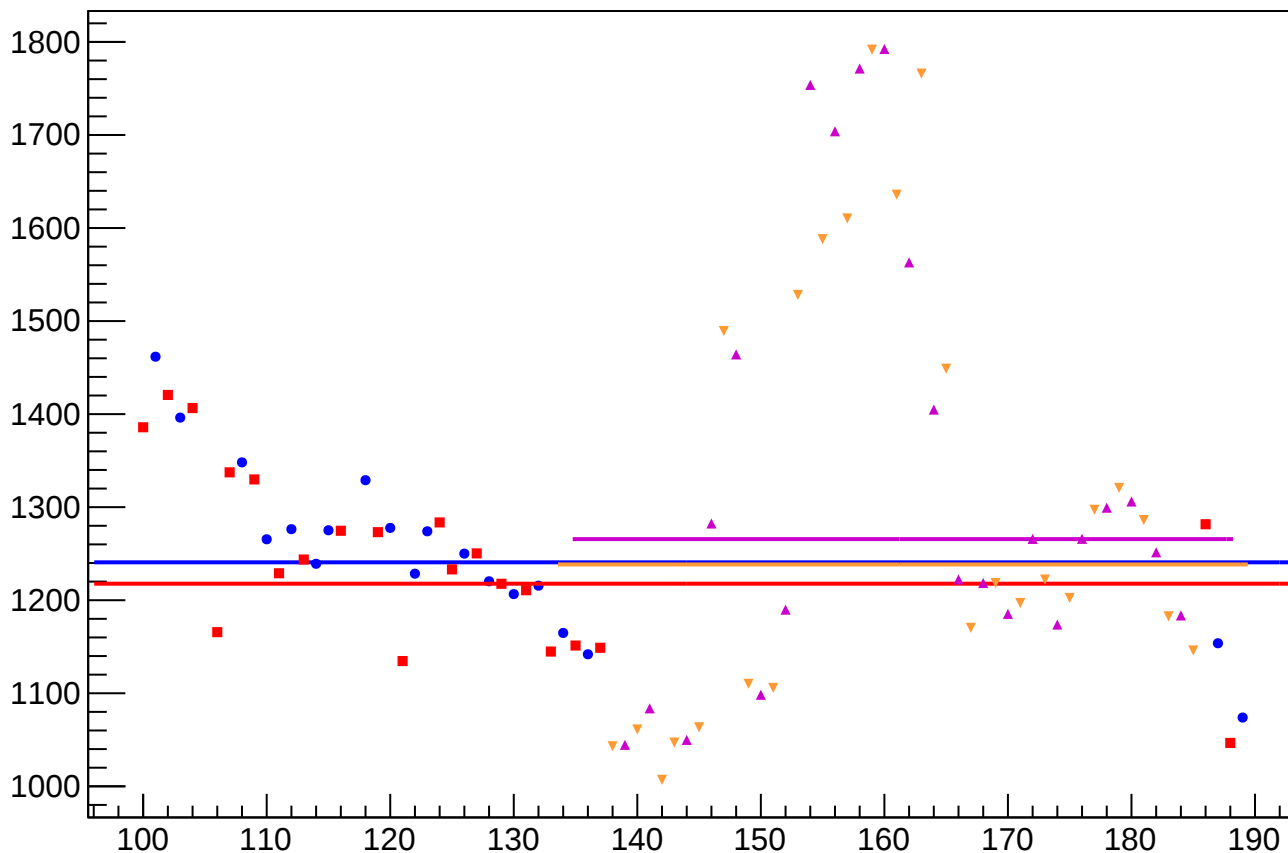
Right: -3.511 ± 0.311 χ^2/NDF : 1540.6/39

In: -1.197 ± 0.256 χ^2/NDF : 668.9/41

Out: 0.902 ± 0.241 χ^2/NDF : 1101.0/45

All: -0.083 ± 0.176 χ^2/NDF : 1805.5/87

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: 1217.749 ± 0.298 $\chi^2/\text{NDF}: 123036.6/20$

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

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

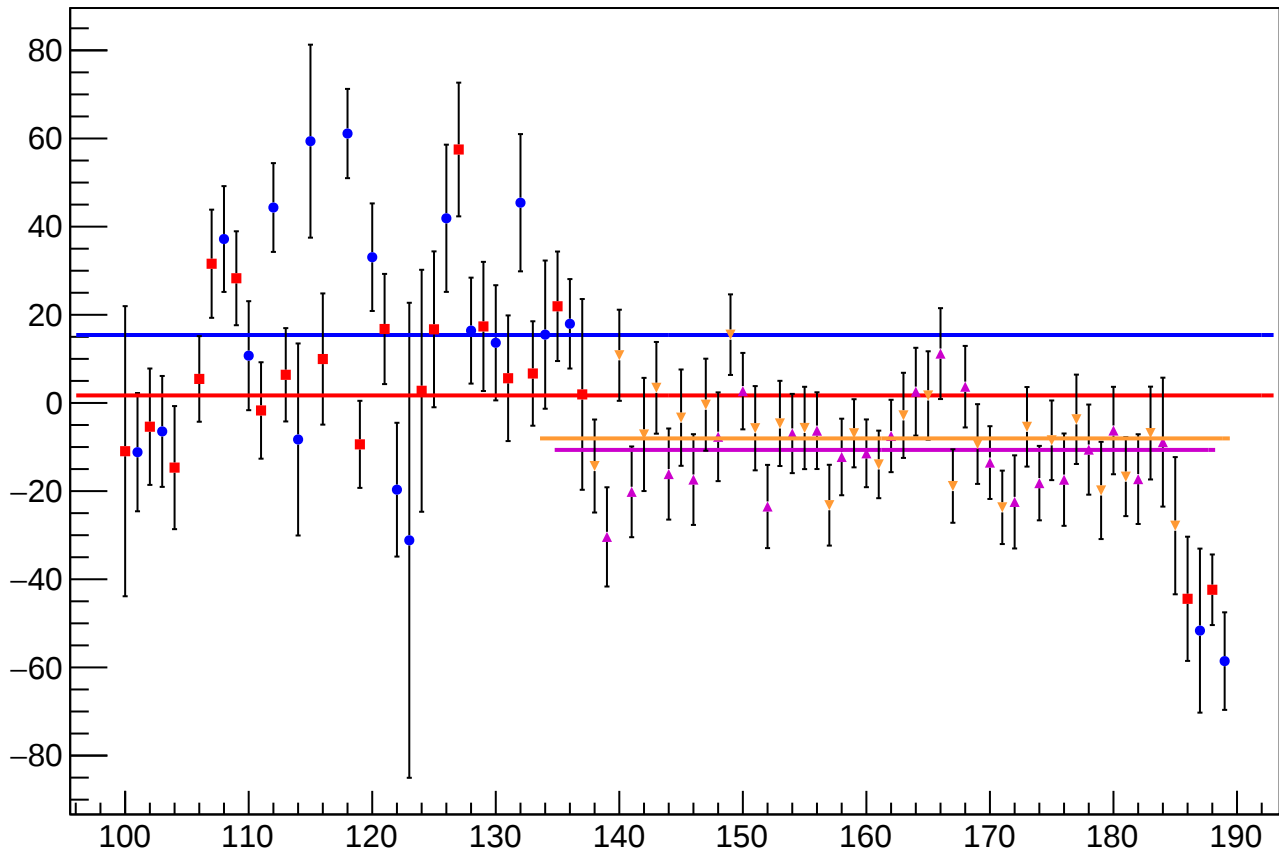
Right: 1228.265 ± 0.220 $\chi^2/\text{NDF}: 218554.4/39$

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

Out: 1231.683 ± 0.170 $\chi^2/\text{NDF}: 1091451.1/45$

All: 1243.979 ± 0.124 $\chi^2/\text{NDF}: 2044577.5/87$

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: 1.709 ± 2.762 $\chi^2/\text{NDF}: 76.8/20$

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

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

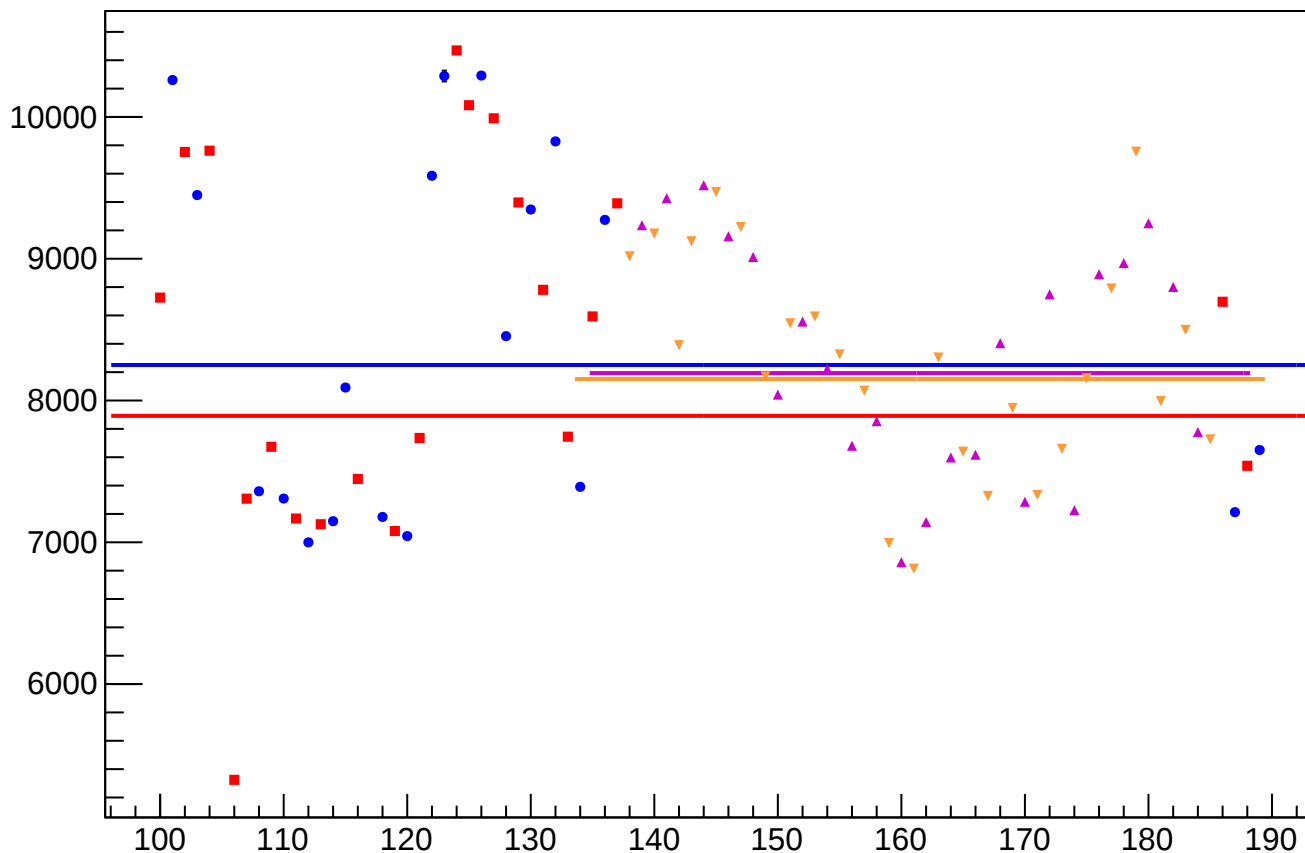
Right: 7.816 ± 2.056 $\chi^2/\text{NDF}: 204.2/39$

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

Out: -4.869 ± 1.575 $\chi^2/\text{NDF}: 111.5/45$

All: -3.985 ± 1.146 $\chi^2/\text{NDF}: 300.5/87$

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: 7891.962 $\pm$ 1.953 χ^2/NDF : 399025.4/20

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

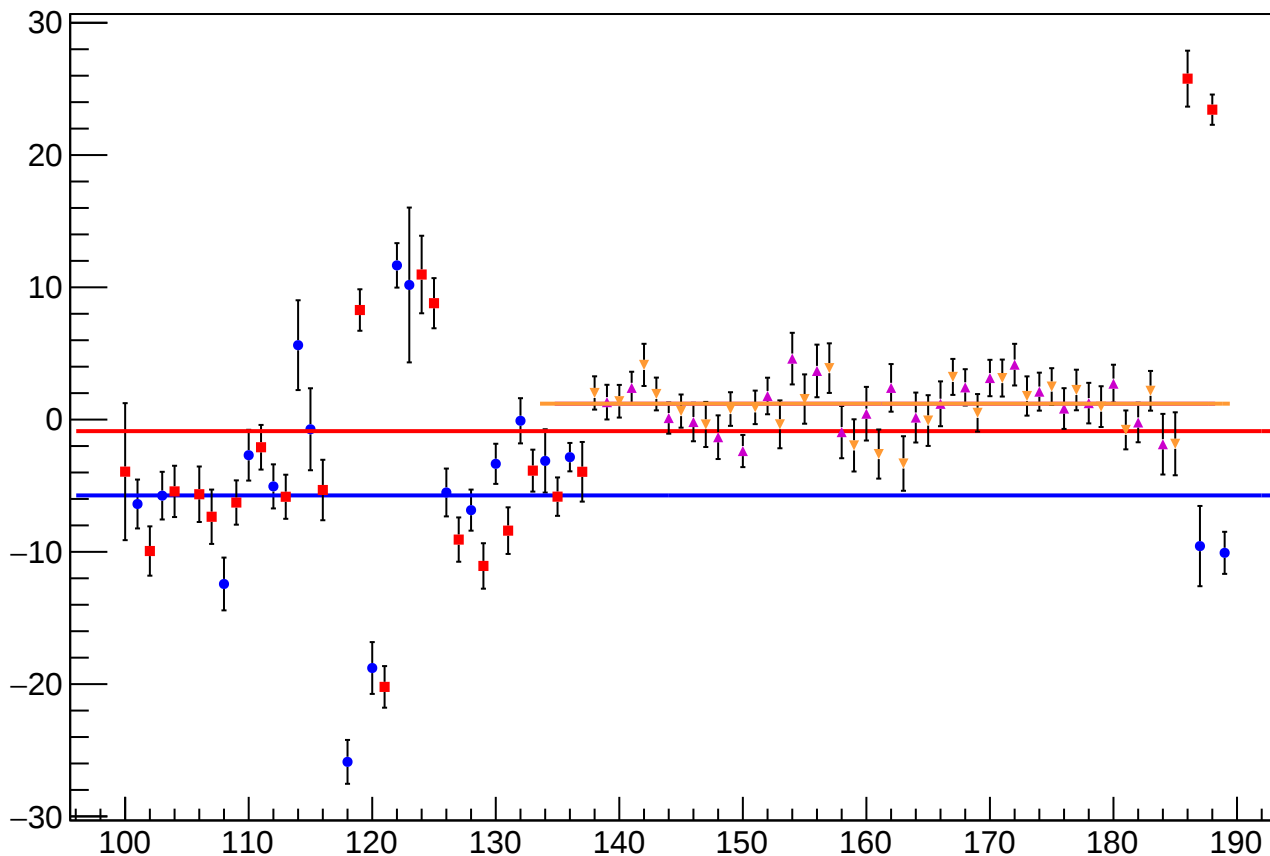
Right: 8051.818 $\pm$ 1.454 χ^2/NDF : 698847.9/39

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

Out: 8067.037 $\pm$ 1.114 χ^2/NDF : 732742.8/45

All: 8134.546 $\pm$ 0.810 χ^2/NDF : 1364189.3/87

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: -0.873 ± 0.389 χ^2/NDF : 999.8/20

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

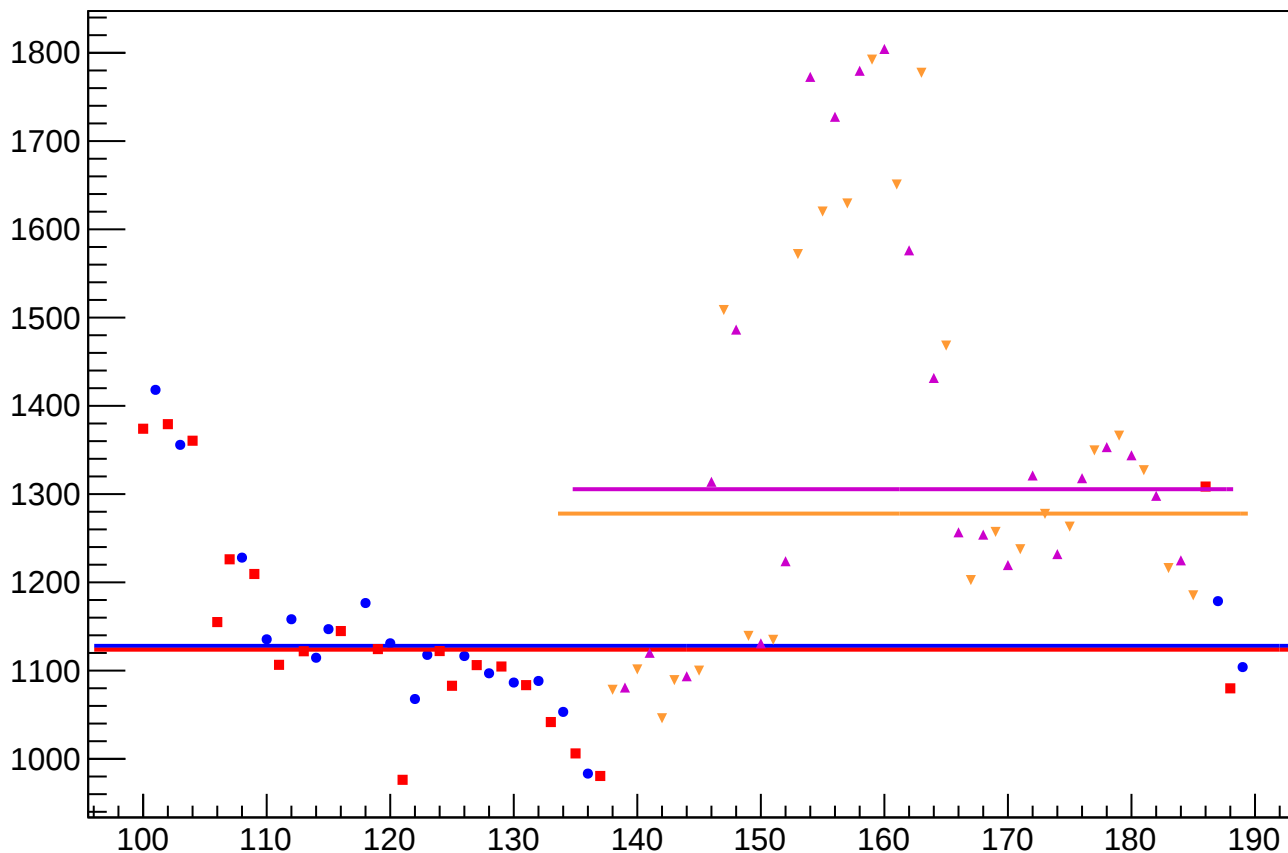
Right: -3.132 ± 0.285 χ^2/NDF : 1438.0/39

In: -1.345 ± 0.253 χ^2/NDF : 571.1/41

Out: 0.422 ± 0.239 χ^2/NDF : 1047.5/45

All: -0.410 ± 0.174 χ^2/NDF : 1644.3/87

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: 1123.709 $\pm$ 0.275 χ^2 /NDF: 147825.8/20

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

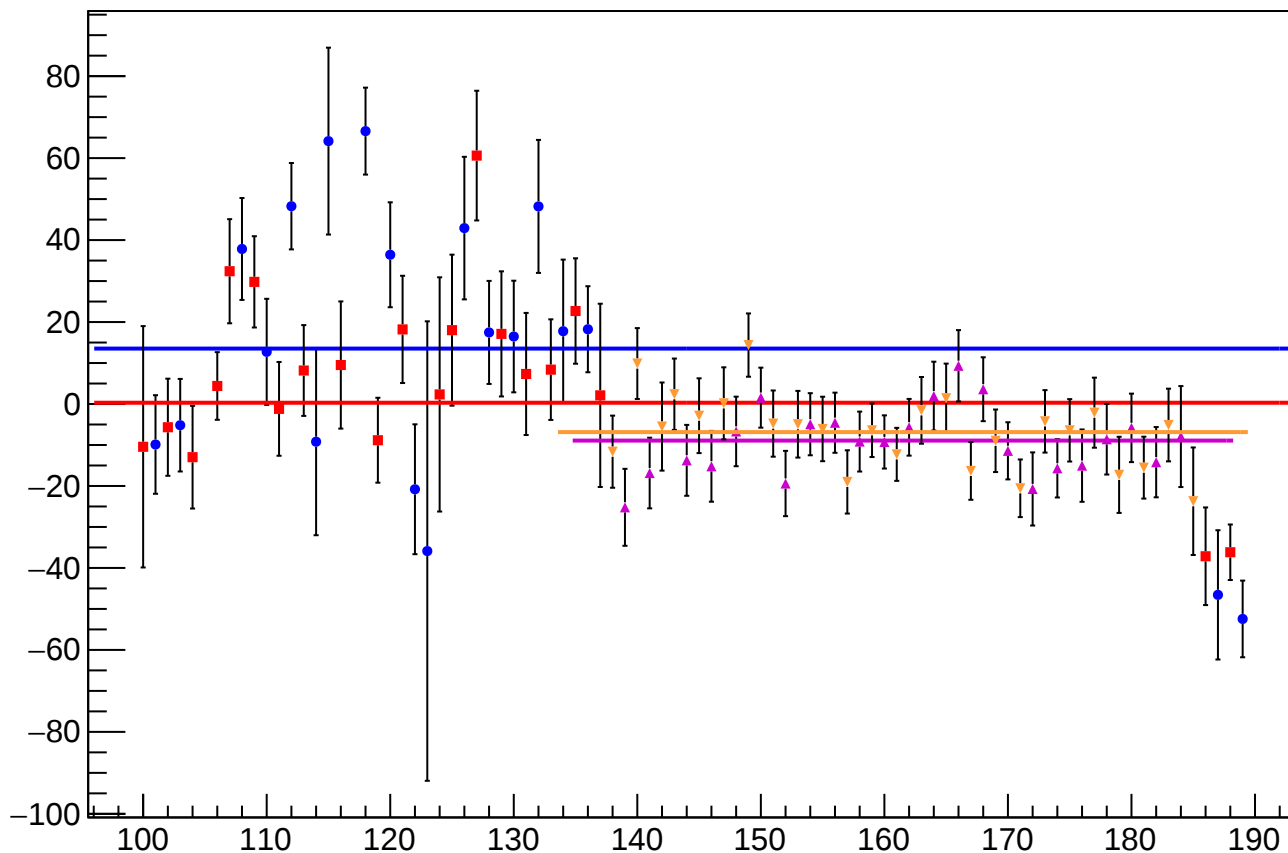
Right: 1125.718 $\pm$ 0.201 χ^2 /NDF: 282040.3/39

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

Out: 1219.909 $\pm$ 0.169 χ^2 /NDF: 1221536.7/45

All: 1229.568 $\pm$ 0.123 χ^2 /NDF: 2351462.3/87

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 13.528+/-3.072 χ^2/NDF : 132.9/18

Left Out: -6.854+/-1.616 χ^2/NDF : 28.7/24

Right Out: 0.313+/-2.680 χ^2/NDF : 77.9/20

Left In: -8.923+/-1.674 χ^2/NDF : 21.8/22

Left: -7.852+/-1.163 χ^2/NDF : 51.3/47

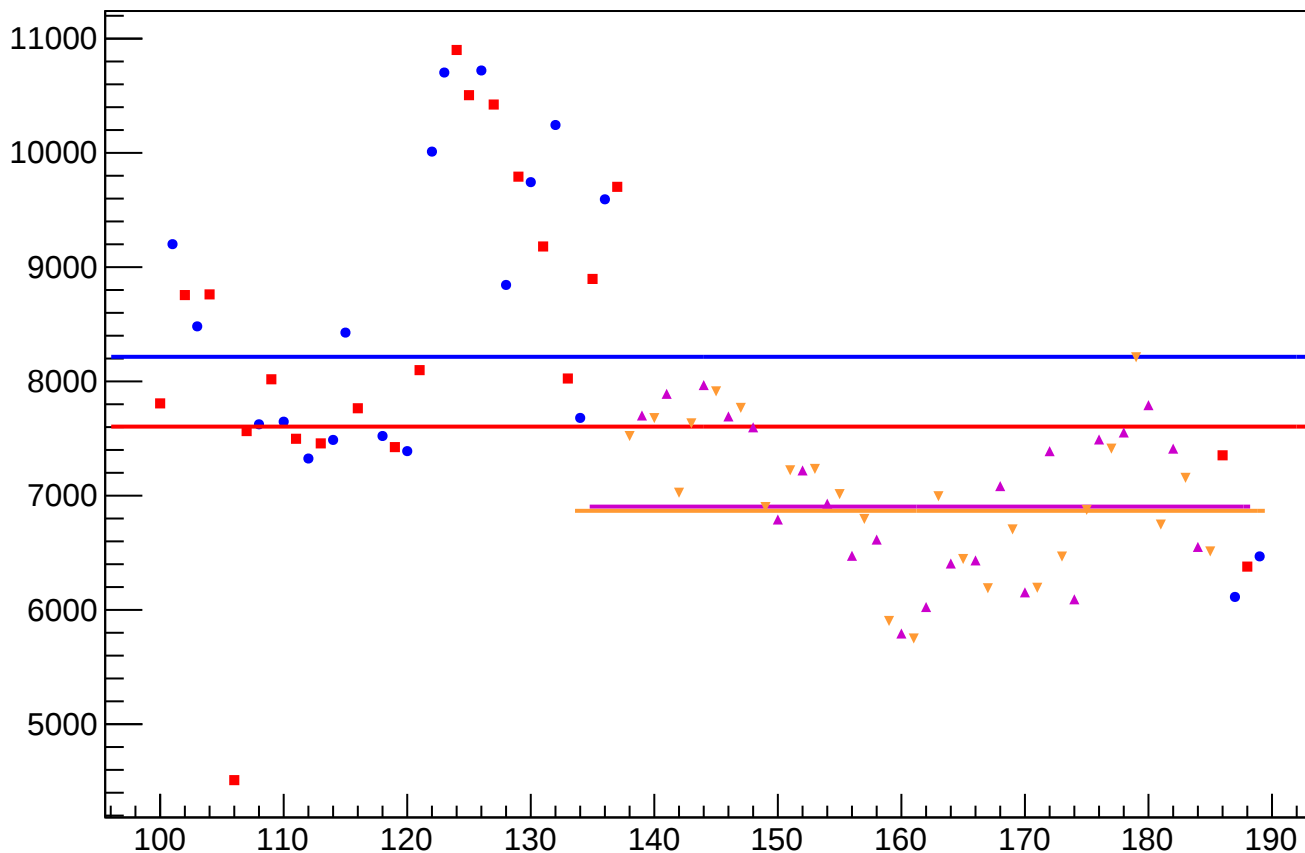
Right: 6.025+/-2.020 χ^2/NDF : 221.3/39

In: -3.781+/-1.470 χ^2/NDF : 195.9/41

Out: -4.944+/-1.384 χ^2/NDF : 111.8/45

All: -4.398+/-1.008 χ^2/NDF : 308.1/87

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8215.263 $\pm$ 2.172 χ^2/NDF : 330471.4/18

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

Right Out: 7604.409 $\pm$ 1.895 χ^2/NDF : 633840.3/20

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

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

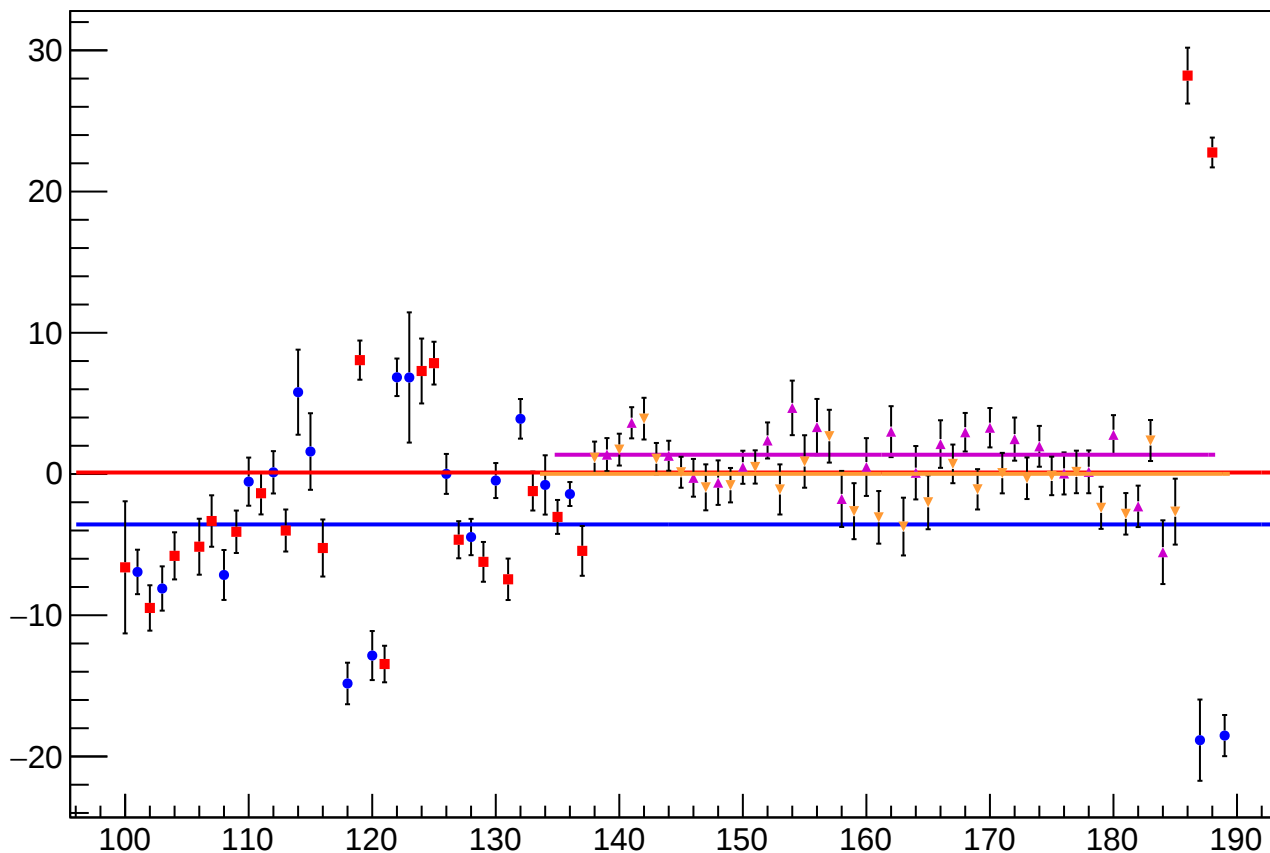
Right: 7868.445 $\pm$ 1.428 χ^2/NDF : 1009207.2/39

In: 7204.384 $\pm$ 1.040 χ^2/NDF : 937258.8/41

Out: 7063.762 $\pm$ 0.978 χ^2/NDF : 1051654.6/45

All: 7129.815 $\pm$ 0.712 χ^2/NDF : 1998616.8/87

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -3.570 ± 0.353 χ^2/NDF : 376.5/18

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

Right Out: 0.106 ± 0.335 χ^2/NDF : 1003.1/20

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

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

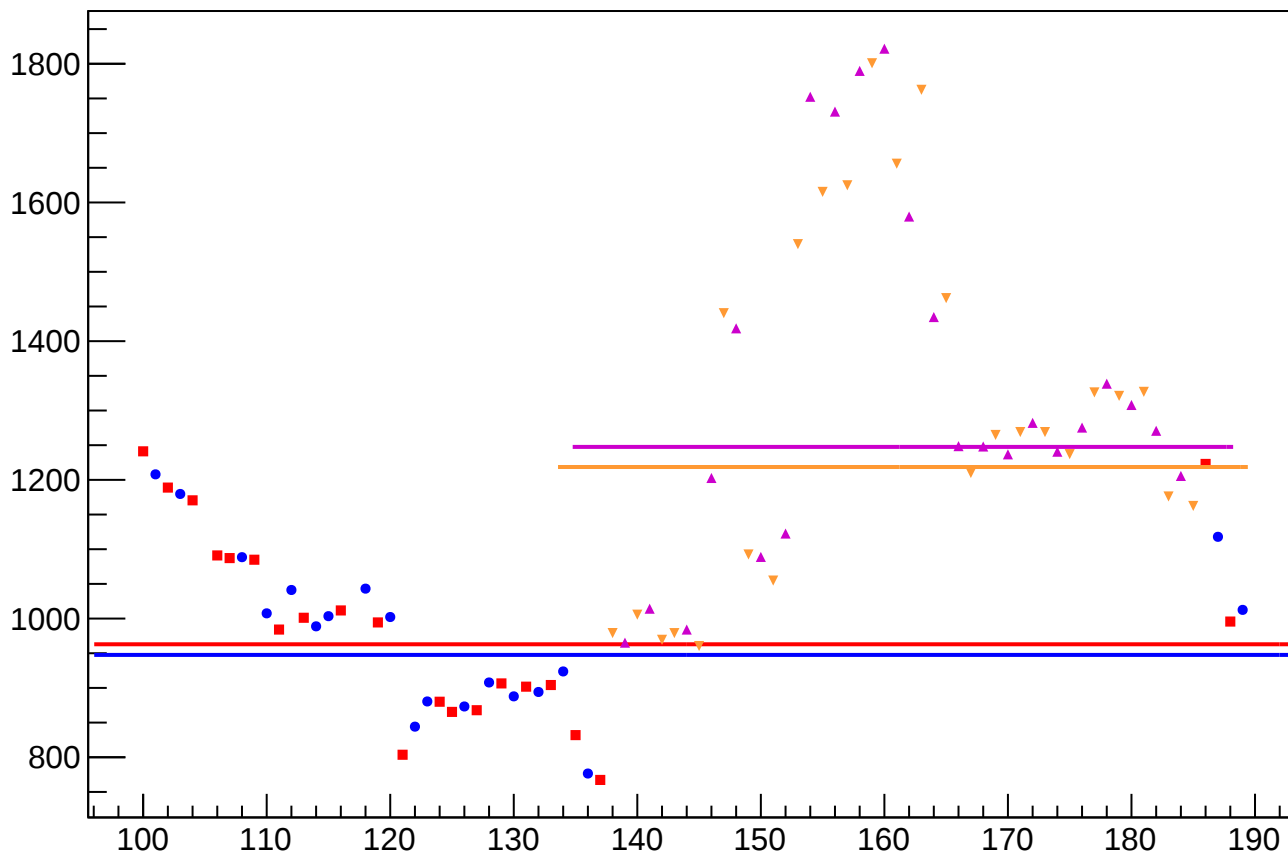
Right: -1.638 ± 0.243 χ^2/NDF : 1436.8/39

In: -0.751 ± 0.231 χ^2/NDF : 527.0/41

Out: 0.053 ± 0.219 χ^2/NDF : 1038.1/45

All: -0.328 ± 0.159 χ^2/NDF : 1571.5/87

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 947.590 ± 0.249 χ^2/NDF : 253383.6/18

Left Out: 1218.543 ± 0.205 χ^2/NDF : 1265847.5/24

Right Out: 962.923 ± 0.237 χ^2/NDF : 259213.0/20

Left In: 1247.538 ± 0.216 χ^2/NDF : 1073390.3/22

Left: 1232.283 ± 0.149 χ^2/NDF : 2348717.2/47

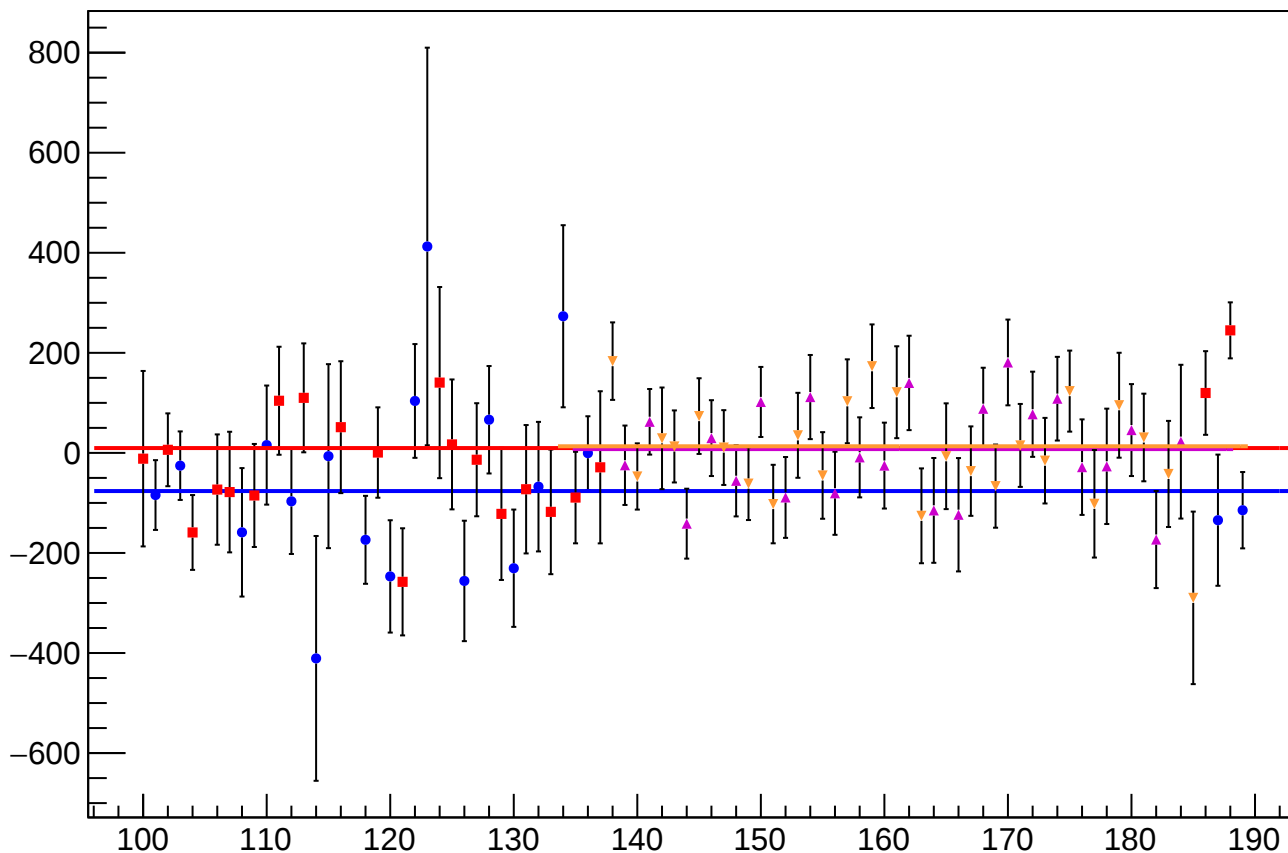
Right: 955.650 ± 0.172 χ^2/NDF : 514585.5/39

In: 1118.883 ± 0.163 χ^2/NDF : 2153727.6/41

Out: 1109.030 ± 0.155 χ^2/NDF : 2191129.5/45

All: 1113.701 ± 0.112 χ^2/NDF : 4346773.0/87

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -76.282 $\pm$ 24.172 χ^2/NDF : 22.1/18

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

Right Out: 9.664 $\pm$ 22.058 χ^2/NDF : 38.6/20

Left In: 7.618 $\pm$ 17.672 χ^2/NDF : 28.1/22

Left: 10.497 $\pm$ 12.306 χ^2/NDF : 55.0/47

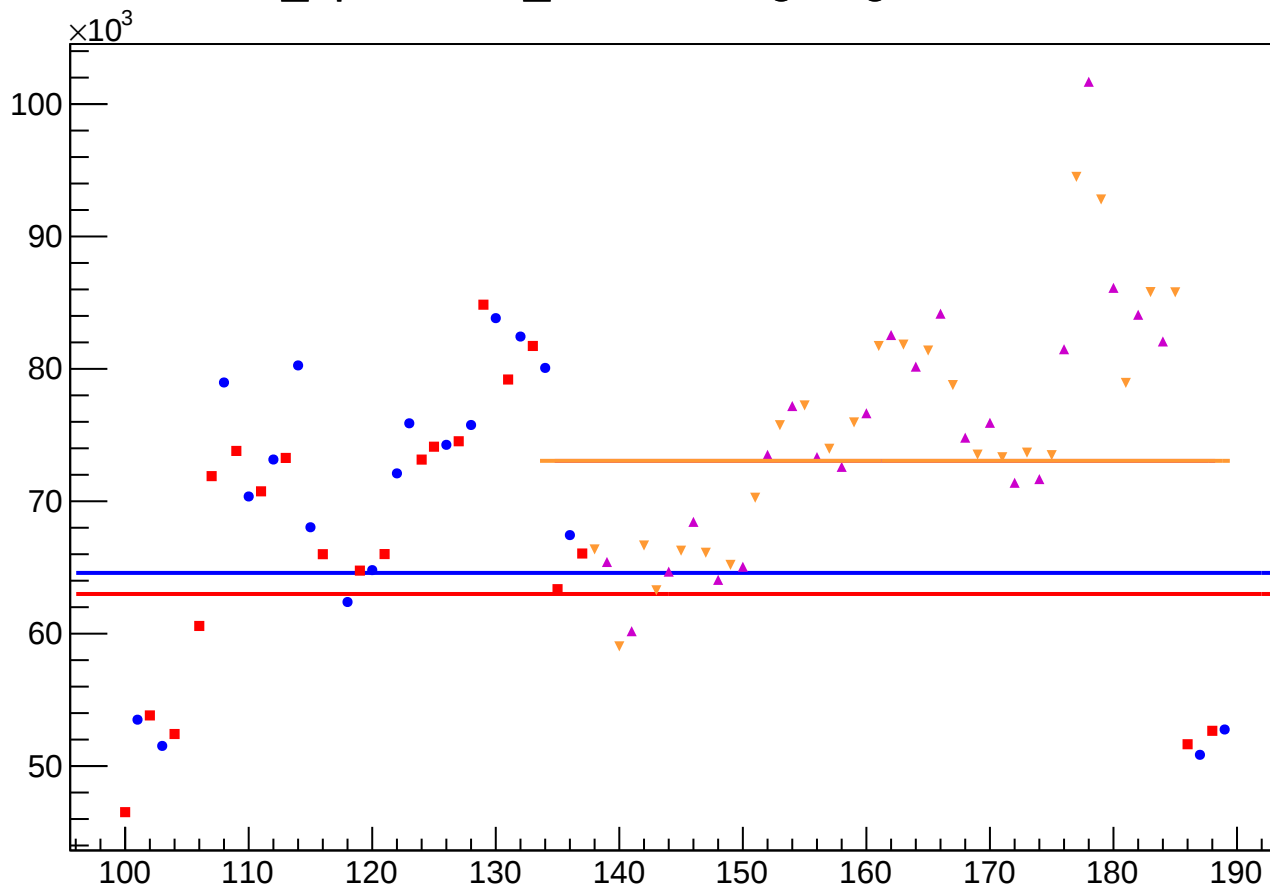
Right: -29.386 $\pm$ 16.294 χ^2/NDF : 67.6/39

In: -21.604 $\pm$ 14.266 χ^2/NDF : 58.1/41

Out: 11.872 $\pm$ 13.537 χ^2/NDF : 65.4/45

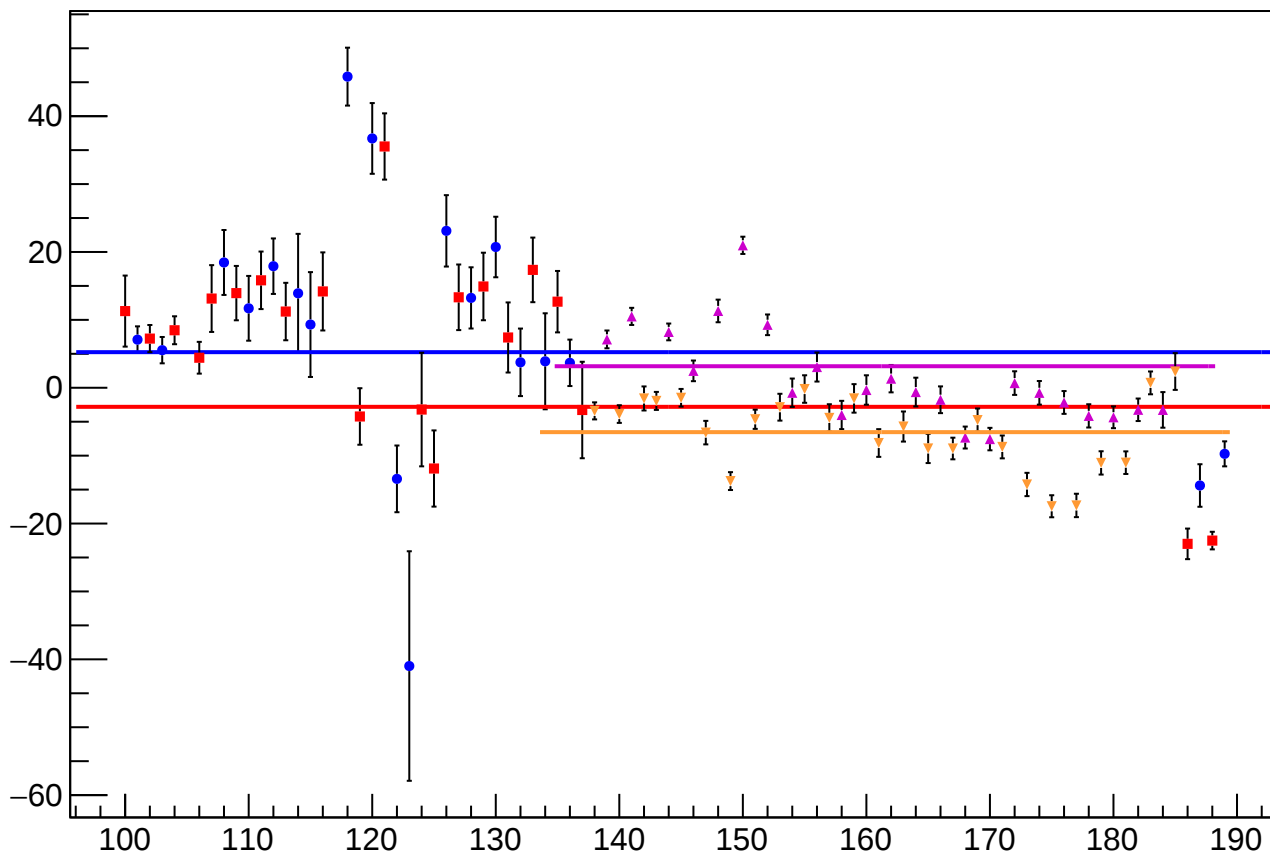
All: -3.989 $\pm$ 9.820 χ^2/NDF : 126.4/87

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: 63720.404 $\pm$ 11.521	χ^2 /NDF: 839315.1/39
Right Out: 62997.134 $\pm$ 15.597	χ^2 /NDF: 433686.1/20	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: 69266.373 $\pm$ 9.572	χ^2 /NDF: 1165910.0/45
		All: 69661.387 $\pm$ 6.944	χ^2 /NDF: 2193447.9/8

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: -2.808 $\pm$ 0.686 χ^2/NDF : 572.6/20

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

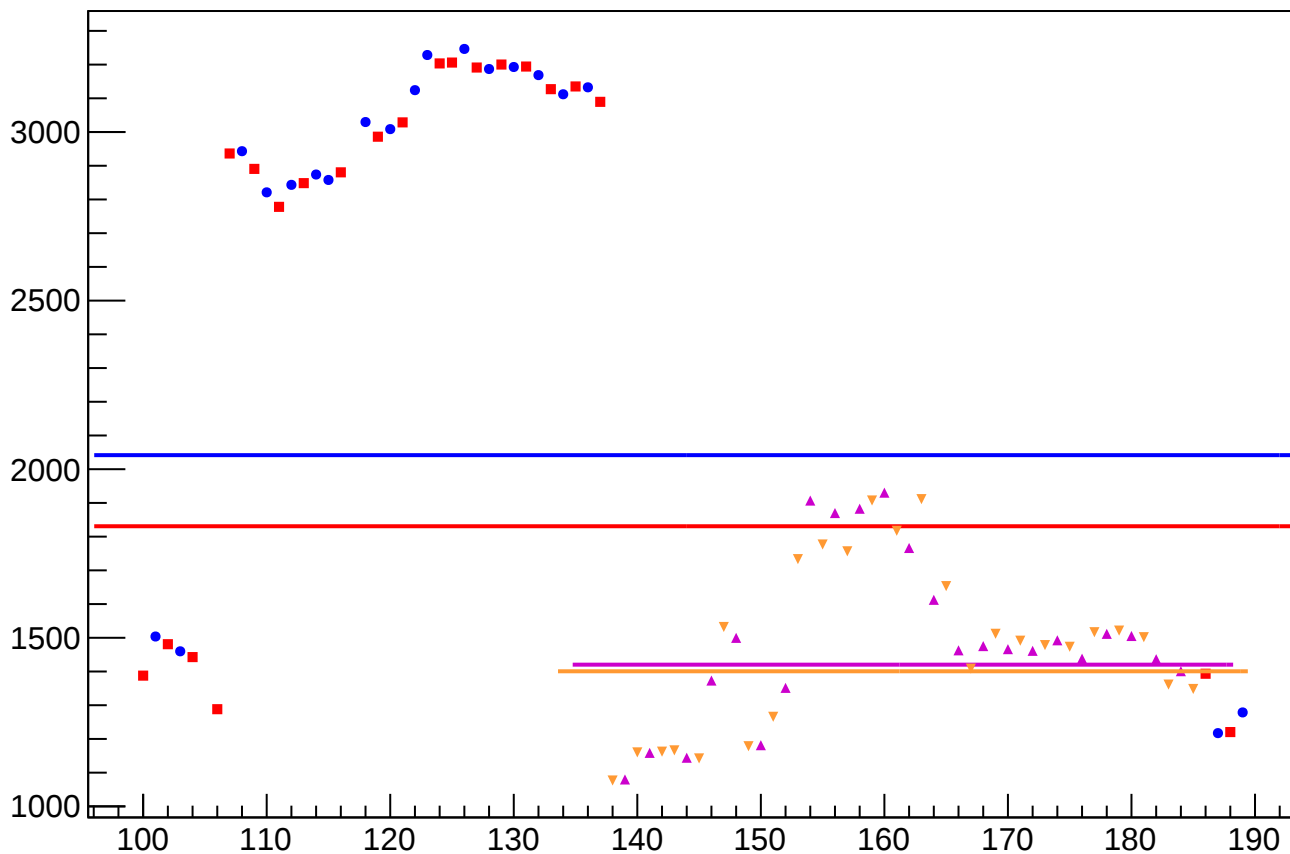
Right: 0.549 $\pm$ 0.524 χ^2/NDF : 932.6/39

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

Out: -5.830 $\pm$ 0.299 χ^2/NDF :849.2/45

All: -1.470 $\pm$ 0.218 χ^2/NDF : 2100.0/87

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: 1830.814 $\pm$ 0.485 χ^2 /NDF: 2572783.0/20

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

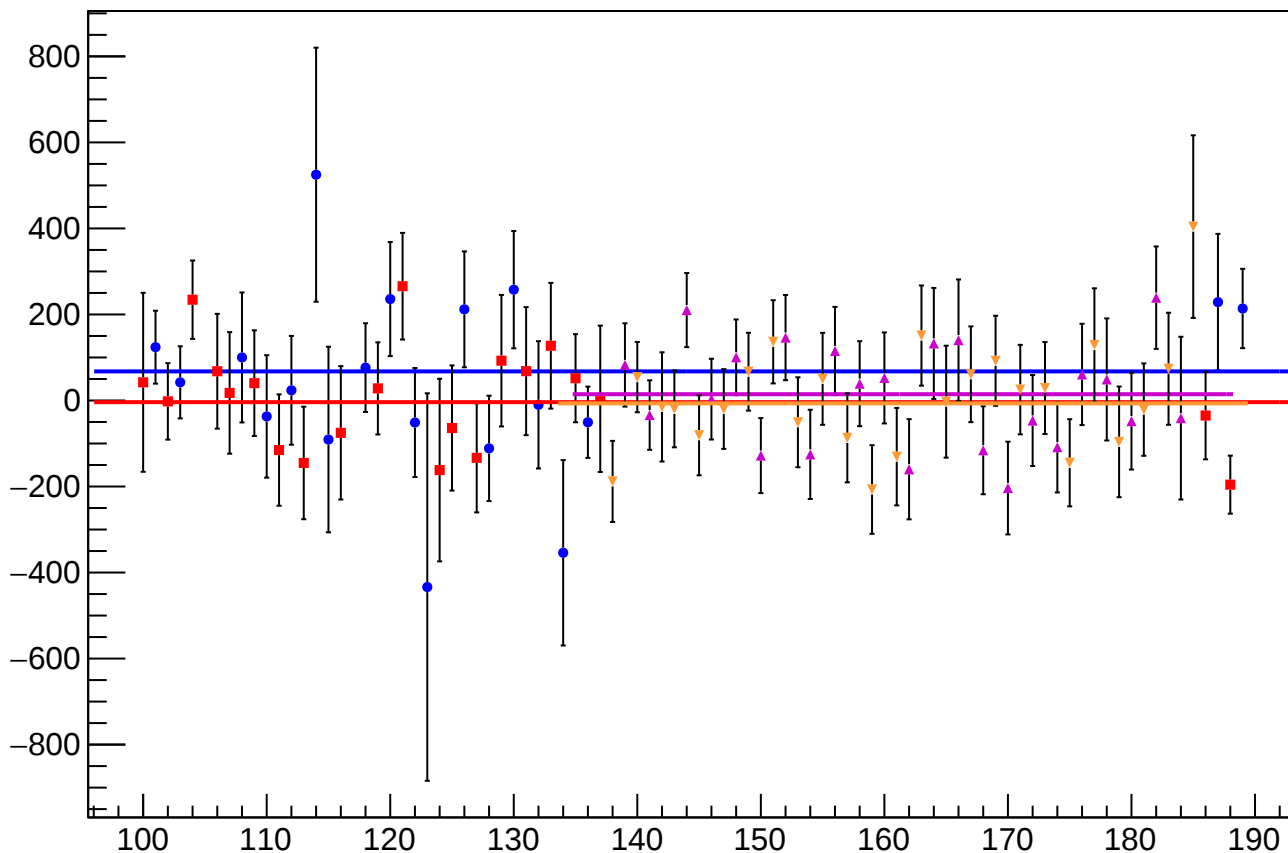
Right: 1918.739 $\pm$ 0.371 χ^2 /NDF: 4707947.0/39

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

Out: 1482.130 $\pm$ 0.211 χ^2 /NDF: 4247506.4/45

All: 1498.003 $\pm$ 0.154 χ^2 /NDF: 8212877.8/87

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: -3.882 $\pm$ 26.108 χ^2 /NDF: 25.9/20

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

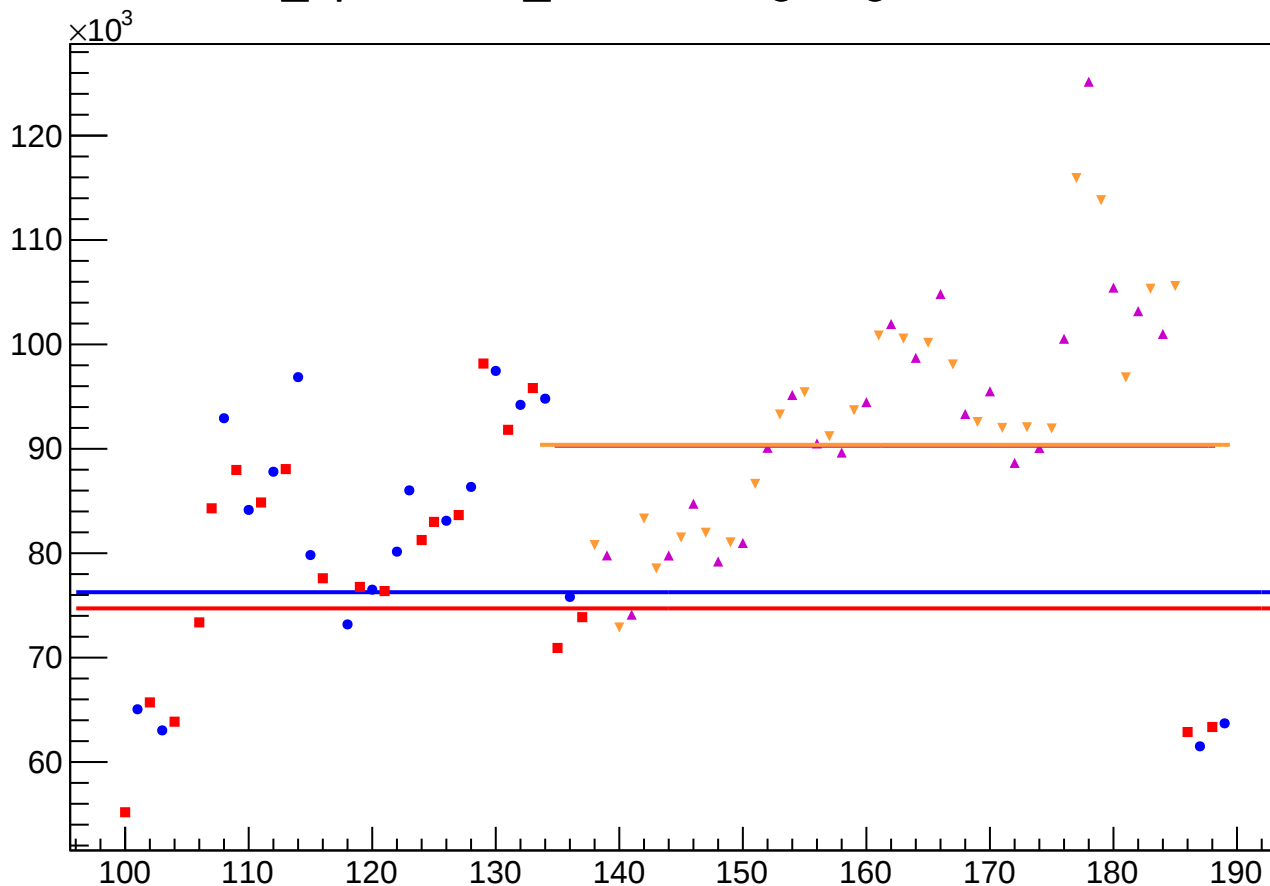
Right: 28.810 $\pm$ 19.240 χ^2 /NDF: 52.2/39

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

Out: -5.633 $\pm$ 16.464 χ^2 /NDF:50.6/45

All: 13.300 $\pm$ 11.936 χ^2 /NDF: 108.3/87

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 76265.893 ± 20.127 $\chi^2/\text{NDF}: 312661.4/18$

Left Out: 90384.853 ± 15.000 $\chi^2/\text{NDF}: 461648.2/24$

Right Out: 74715.931 ± 18.461 $\chi^2/\text{NDF}: 354153.9/20$

Left In: 90293.591 ± 15.448 $\chi^2/\text{NDF}: 461337.5/22$

Left: 90340.563 ± 10.761 $\chi^2/\text{NDF}: 923003.7/47$

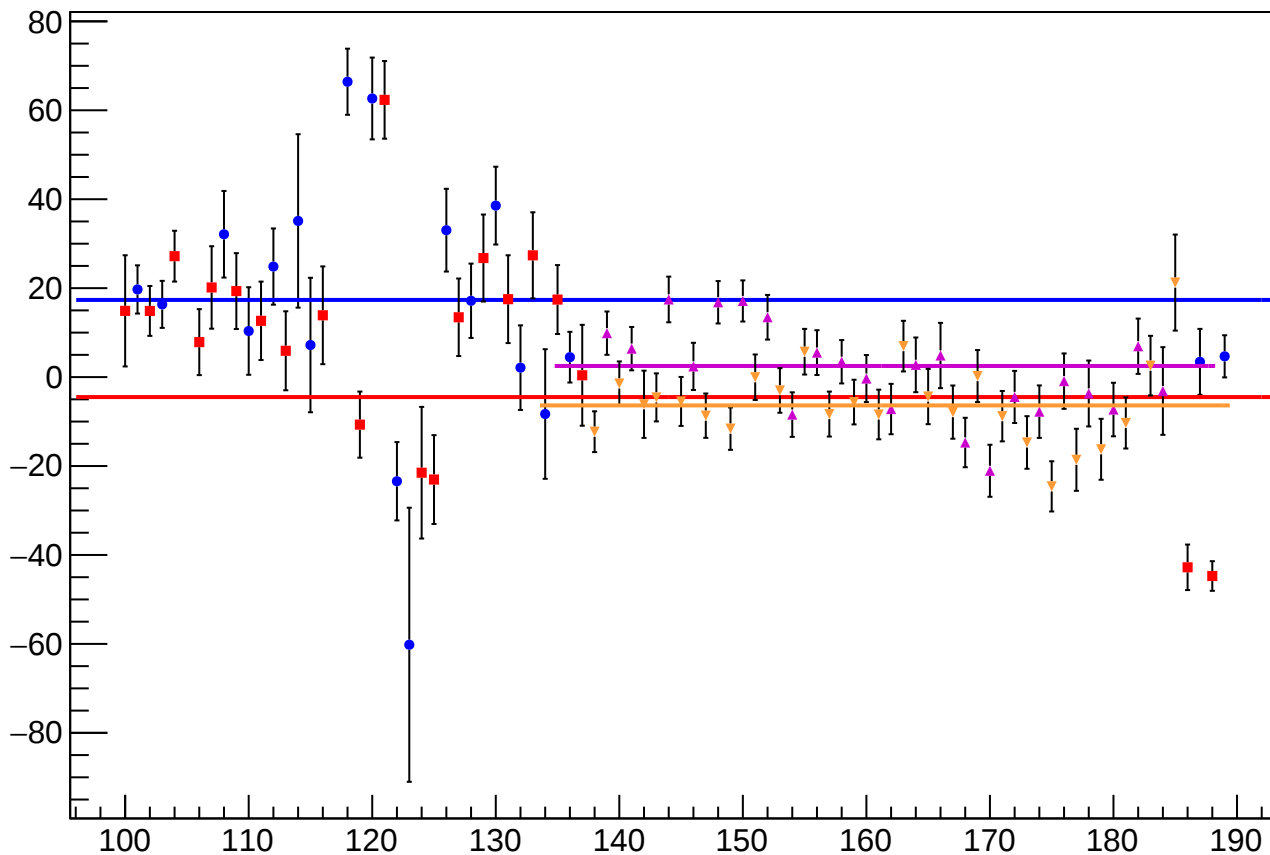
Right: 75424.125 ± 13.605 $\chi^2/\text{NDF}: 670036.1/39$

In: 85093.532 ± 12.254 $\chi^2/\text{NDF}: 1079685.2/41$

Out: 84153.996 ± 11.642 $\chi^2/\text{NDF}: 1249719.9/45$

All: 84599.689 ± 8.440 $\chi^2/\text{NDF}: 2332494.8/86$

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: -4.492 ± 1.603 $\chi^2/\text{NDF}: 375.1/20$

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

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

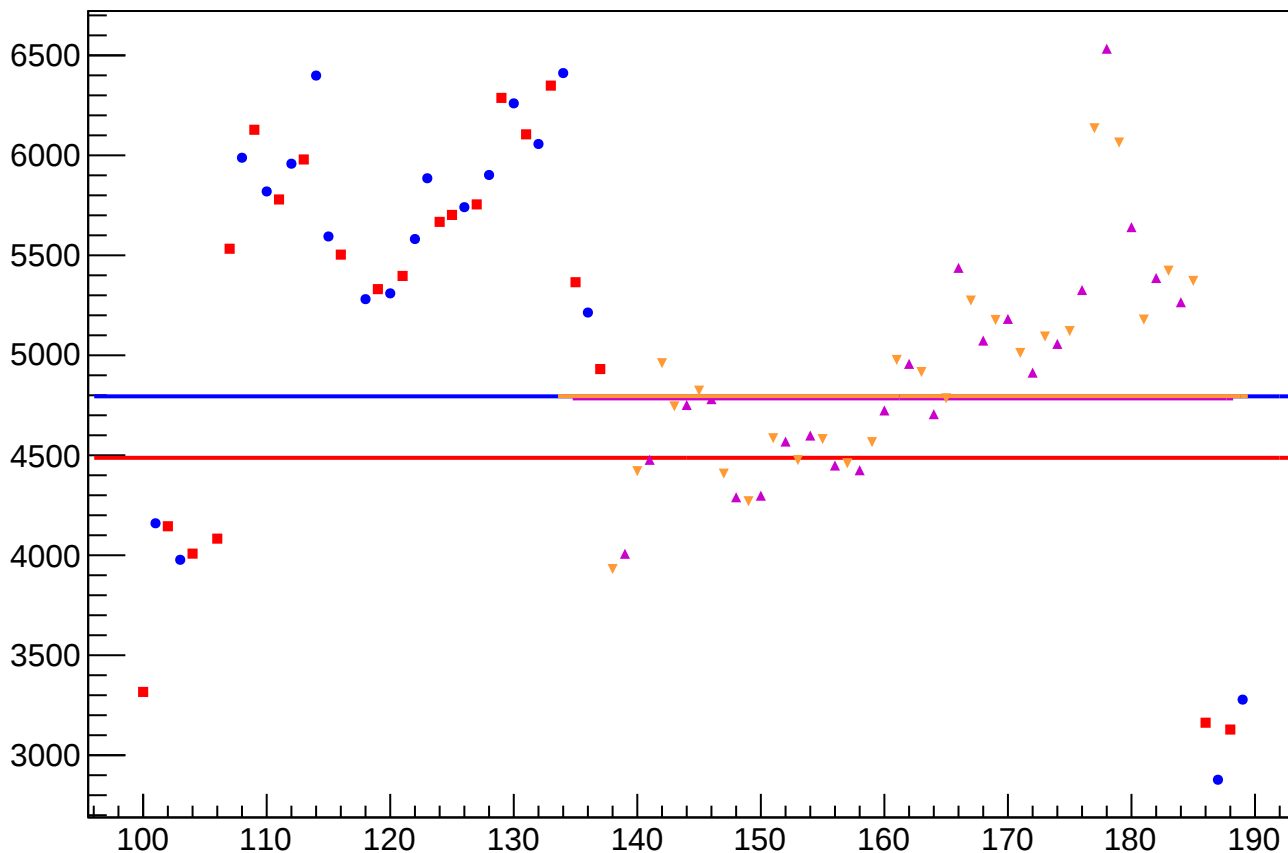
Right: 5.076 ± 1.202 $\chi^2/\text{NDF}: 587.3/39$

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

Out: -5.751 ± 0.920 $\chi^2/\text{NDF}: 421.5/45$

All: 0.154 ± 0.669 $\chi^2/\text{NDF}: 765.8/87$

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: 4487.250 $\pm$ 1.133 χ^2 /NDF: 1083833.1/20

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

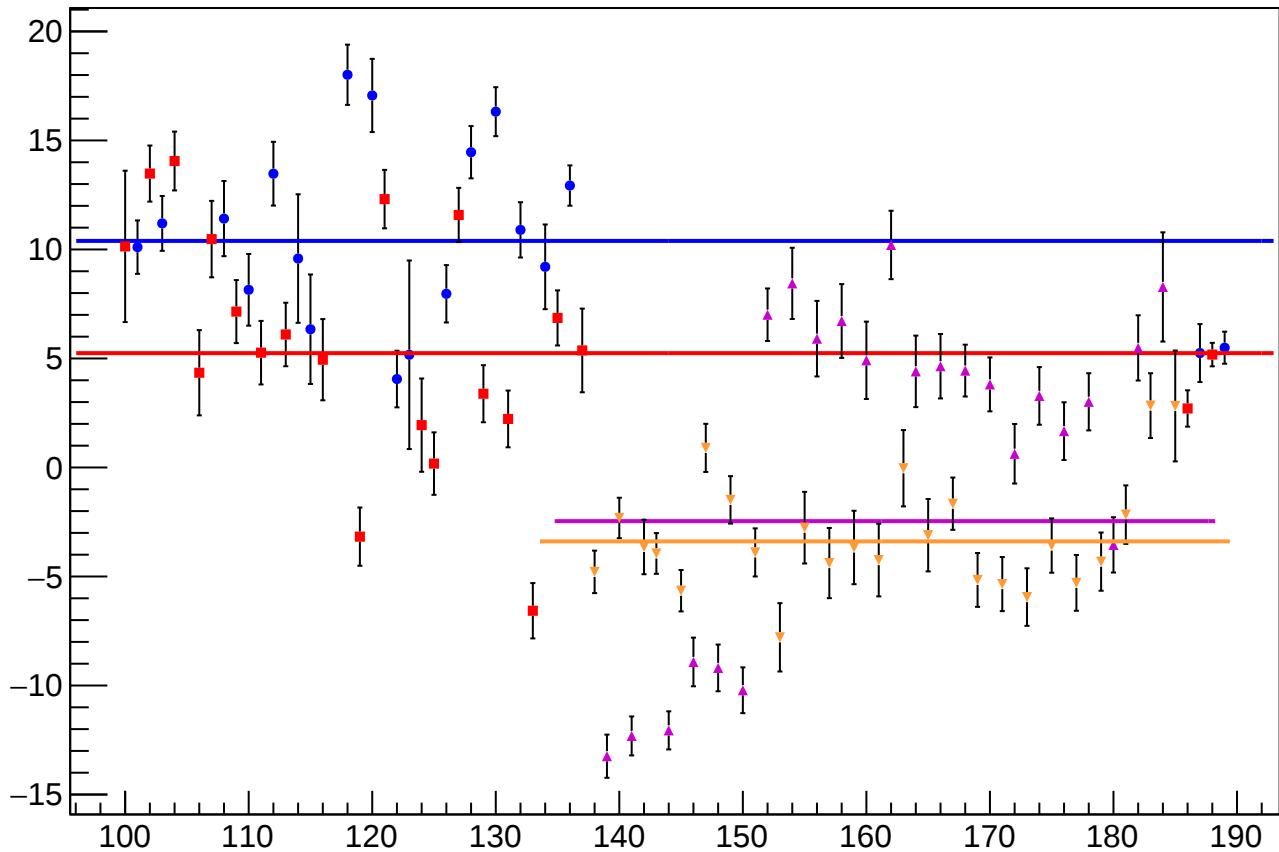
Right: 4621.941 $\pm$ 0.850 χ^2 /NDF: 1853552.2/39

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

Out: 4694.130 $\pm$ 0.651 χ^2 /NDF: 1494785.9/45

All: 4738.074 $\pm$ 0.473 χ^2 /NDF: 2599494.0/87

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 10.392 ± 0.304 $\chi^2/\text{NDF}: 191.6/18$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 5.245 ± 0.271 $\chi^2/\text{NDF}: 310.2/20$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

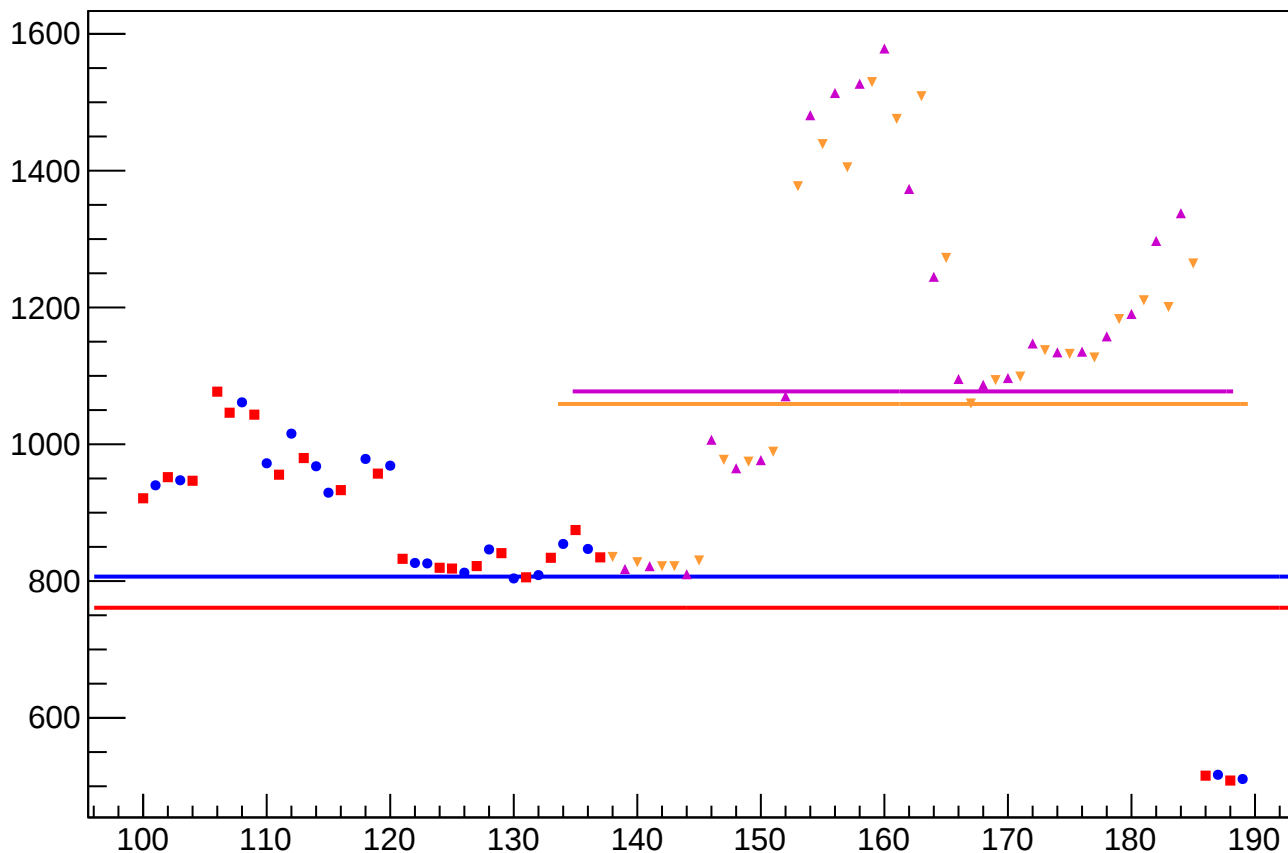
Right: 7.526 ± 0.202 $\chi^2/\text{NDF}: 661.2/39$

In: 3.071 ± 0.200 $\chi^2/\text{NDF}: 2136.8/41$

Out: 0.613 ± 0.185 $\chi^2/\text{NDF}: 931.1/45$

All: 1.748 ± 0.136 $\chi^2/\text{NDF}: 3149.6/87$

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: 761.007 $\pm$ 0.192 χ^2/NDF : 1073129.2/20

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

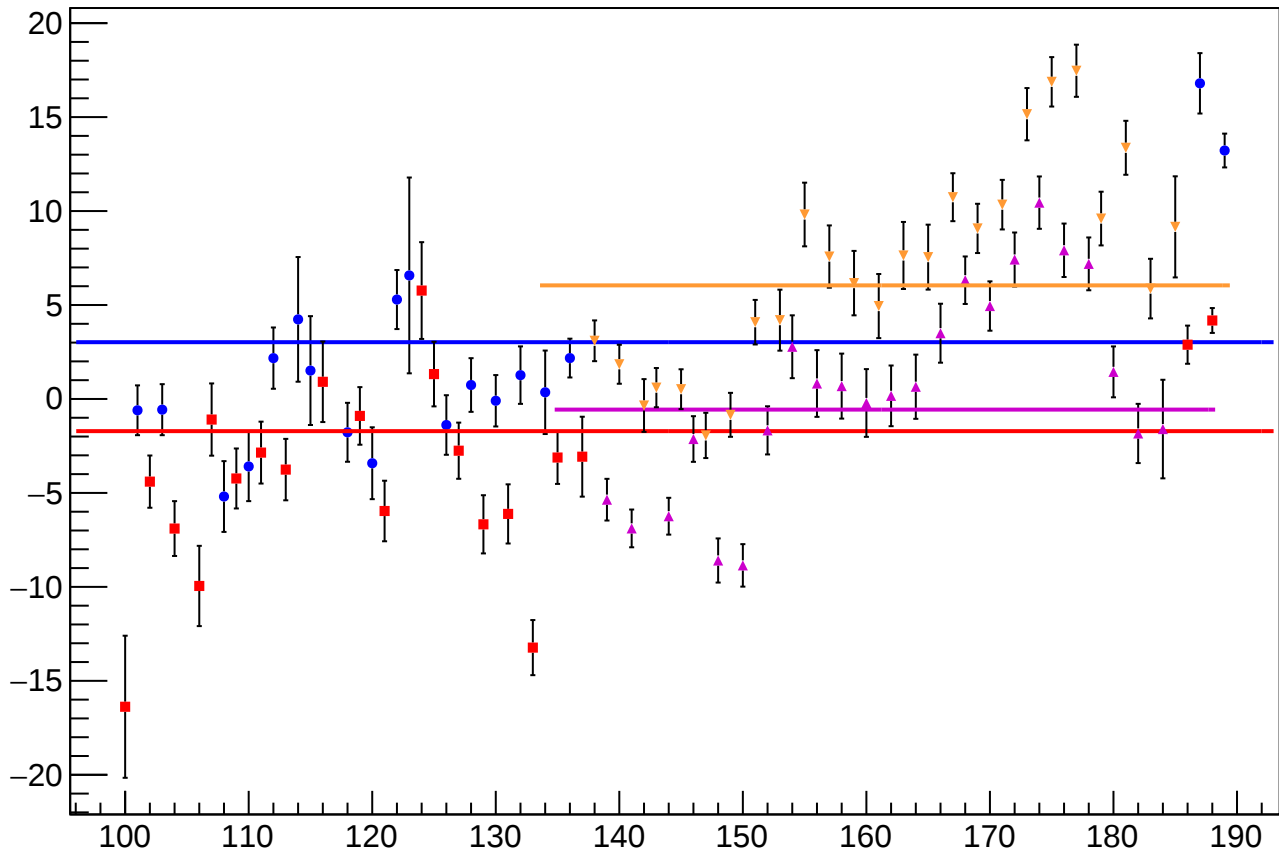
Right: 781.183 $\pm$ 0.143 χ^2/NDF : 1739037.3/39

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

Out: 920.811 $\pm$ 0.131 χ^2/NDF : 3769835.2/45

All: 939.252 $\pm$ 0.096 χ^2/NDF : 6637122.7/87

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 3.022 ± 0.353 χ^2/NDF : 291.2/18

Left Out: 6.045 ± 0.272 χ^2/NDF : 430.8/24

Right Out: -1.712 ± 0.318 χ^2/NDF : 252.6/20

Left In: -0.566 ± 0.284 χ^2/NDF : 417.0/22

Left: 2.888 ± 0.196 χ^2/NDF : 1130.7/47

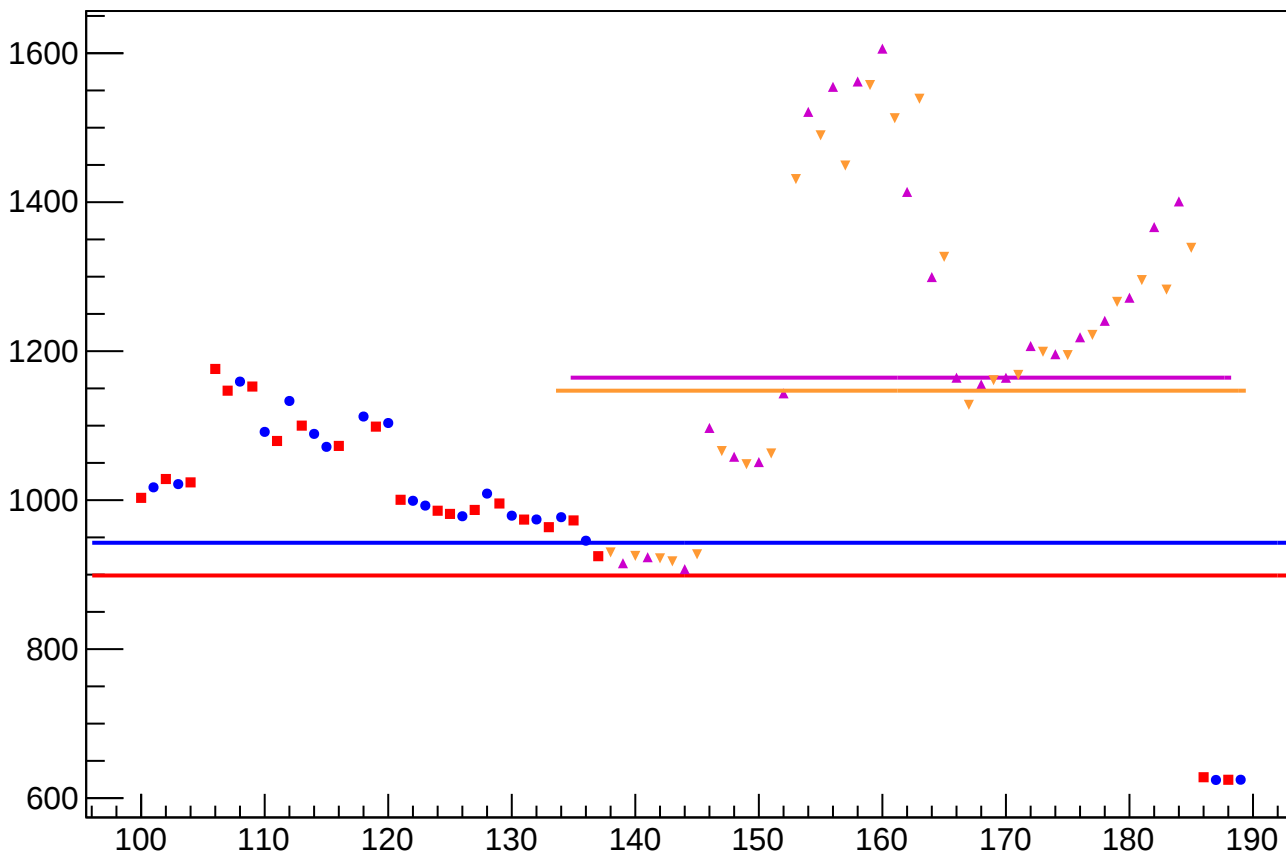
Right: 0.403 ± 0.236 χ^2/NDF : 643.1/39

In: 0.843 ± 0.221 χ^2/NDF : 770.8/41

Out: 2.767 ± 0.206 χ^2/NDF : 1028.0/45

All: 1.872 ± 0.151 χ^2/NDF : 1839.2/87

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 942.788 $\pm$ 0.250 χ^2 /NDF: 464447.5/18

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 898.861 $\pm$ 0.225 χ^2 /NDF: 782313.4/20

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF:944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2 /NDF: 1993824.0/47

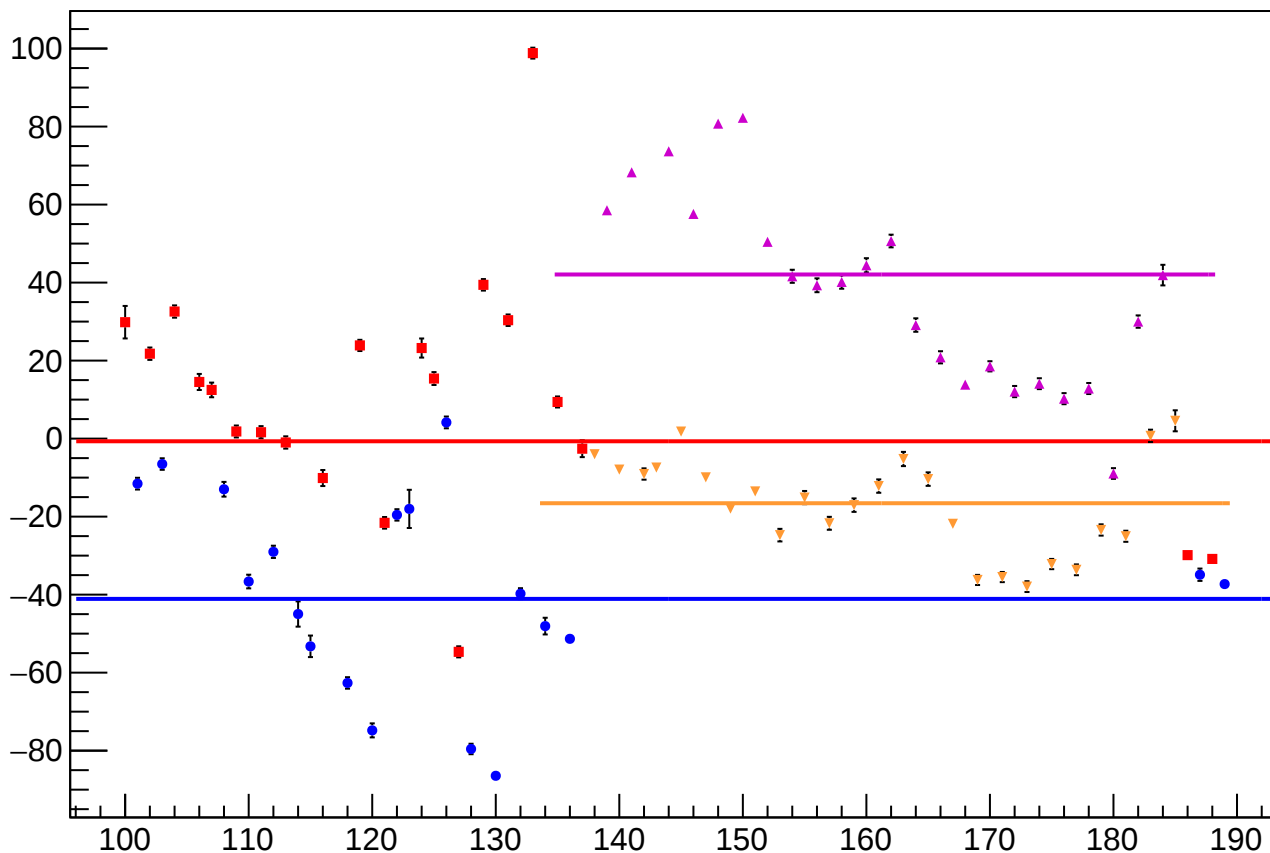
Right: 918.490 $\pm$ 0.167 χ^2 /NDF: 1263860.3/39

In: 1077.391 $\pm$ 0.157 χ^2 /NDF:1886527.2/41

Out: 1042.118 $\pm$ 0.146 χ^2 /NDF:2532932.6/45

All: 1058.522 $\pm$ 0.107 χ^2 /NDF: 4446613.1/87

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: -0.682 ± 0.309 $\chi^2/\text{NDF}: 12364.3/20$

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

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

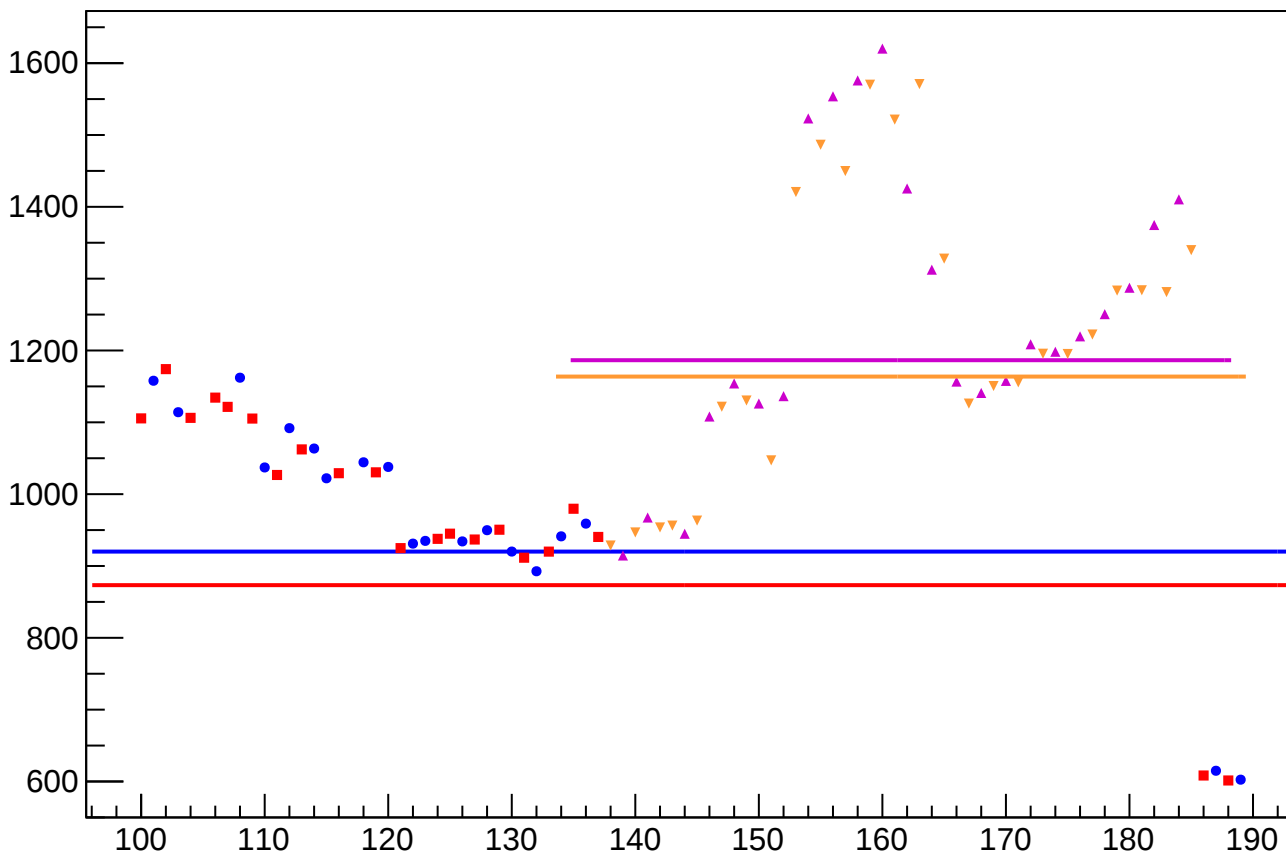
Right: -18.656 ± 0.230 $\chi^2/\text{NDF}: 25097.4/39$

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

Out: -9.546 ± 0.206 $\chi^2/\text{NDF}: 15767.5/45$

All: -1.511 ± 0.151 $\chi^2/\text{NDF}: 66620.8/87$

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: 873.320 $\pm$ 0.219 χ^2 /NDF: 861522.4/20

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

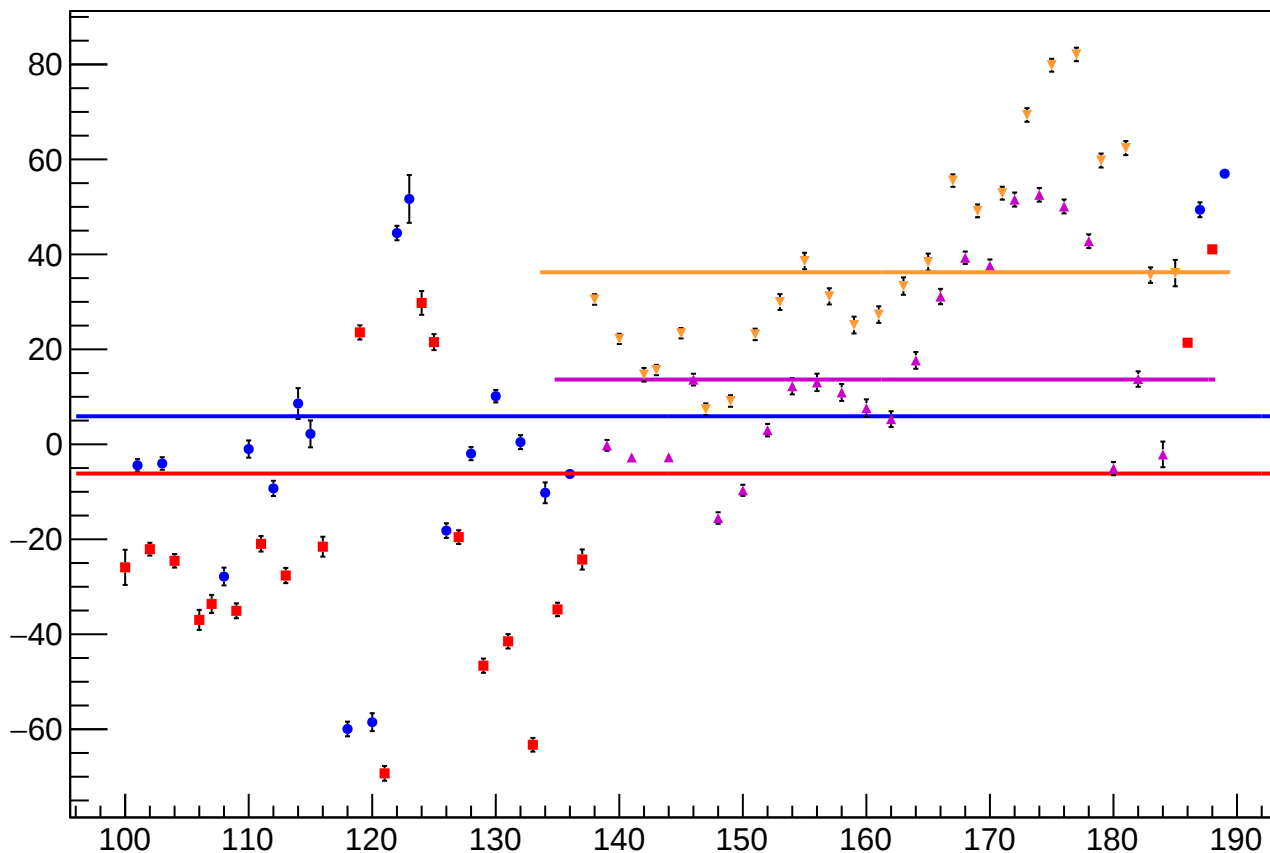
Right: 894.104 $\pm$ 0.163 χ^2 /NDF: 1408553.2/39

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

Out: 1035.345 $\pm$ 0.145 χ^2 /NDF: 2781331.8/45

All: 1054.499 $\pm$ 0.107 χ^2 /NDF: 4878478.7/87

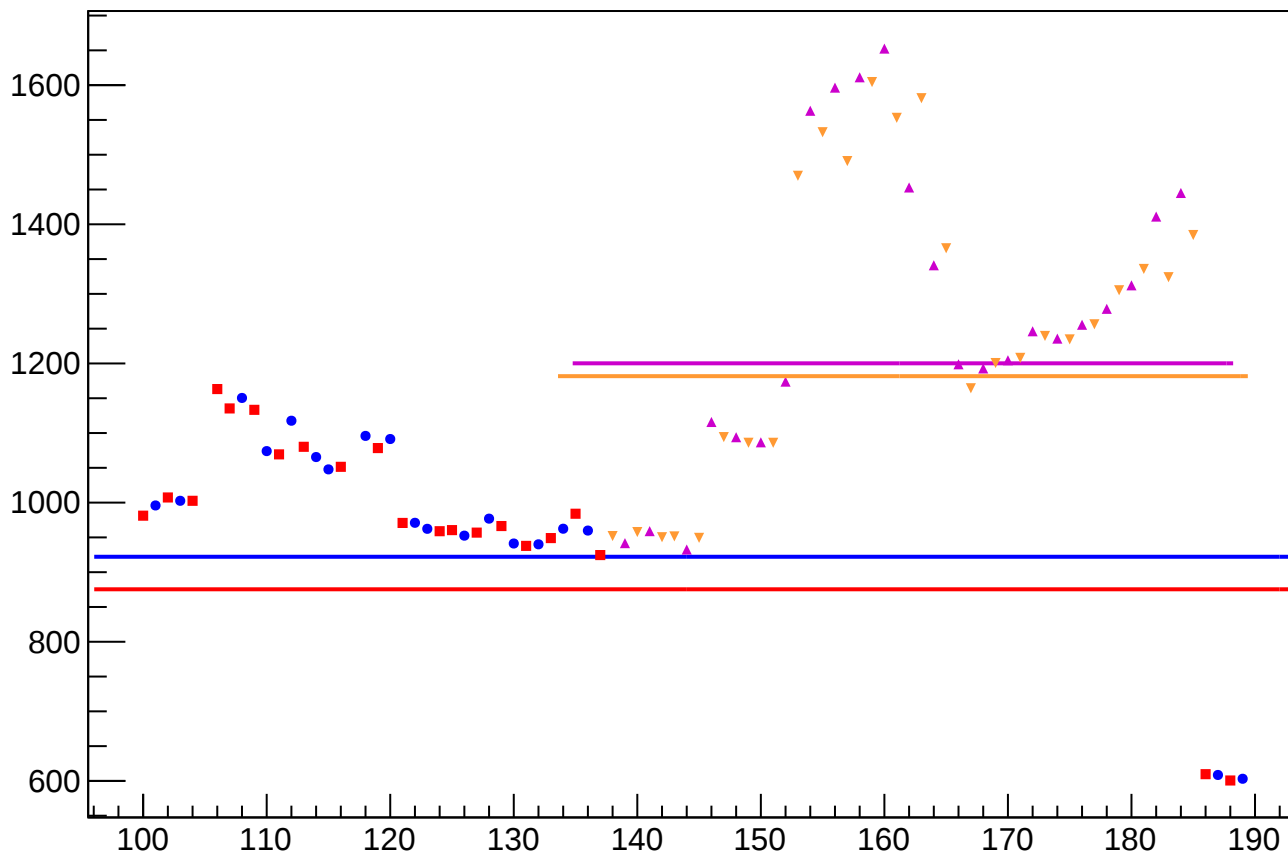
diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 5.908 $\pm$ 0.346 χ^2/NDF : 8973.7/18
 Left Out: 36.234 $\pm$ 0.280 χ^2/NDF : 5794.2/24
 Right Out: -6.155 $\pm$ 0.310 χ^2/NDF : 13593.7/20
 Left In: 13.640 $\pm$ 0.293 χ^2/NDF : 5178.0/22

Left: 25.447 $\pm$ 0.202 χ^2/NDF : 14084.0/47
 Right: -0.786 $\pm$ 0.231 χ^2/NDF : 23242.1/39
 In: 10.413 $\pm$ 0.223 χ^2/NDF : 14442.7/41
 Out: 17.188 $\pm$ 0.208 χ^2/NDF : 29695.2/45
 All: 14.048 $\pm$ 0.152 χ^2/NDF : 44631.0/87

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 922.176 ± 0.245 $\chi^2/\text{NDF}: 496729.7/18$

Left Out: 1181.732 ± 0.198 $\chi^2/\text{NDF}: 1043520.8/24$

Right Out: 875.414 ± 0.219 $\chi^2/\text{NDF}: 844626.1/20$

Left In: 1200.198 ± 0.207 $\chi^2/\text{NDF}: 938224.7/22$

Left: 1190.549 ± 0.143 $\chi^2/\text{NDF}: 1985902.3/47$

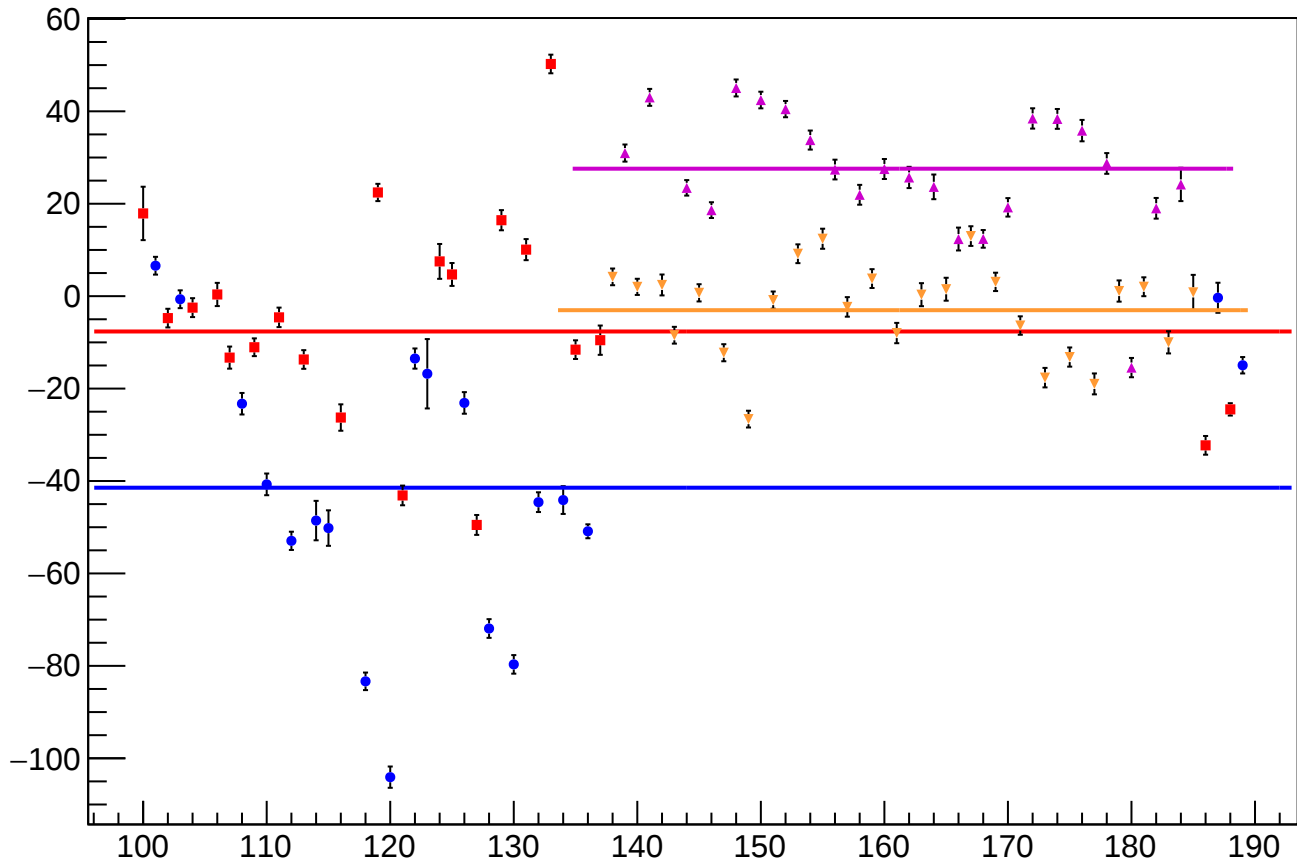
Right: 896.227 ± 0.163 $\chi^2/\text{NDF}: 1361632.5/39$

In: 1084.168 ± 0.158 $\chi^2/\text{NDF}: 2187543.8/41$

Out: 1044.095 ± 0.147 $\chi^2/\text{NDF}: 2964651.0/45$

All: 1062.664 ± 0.108 $\chi^2/\text{NDF}: 5186698.6/87$

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -41.449 ± 0.511 $\chi^2/\text{NDF}: 3650.2/18$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -7.644 ± 0.473 $\chi^2/\text{NDF}: 2373.7/20$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

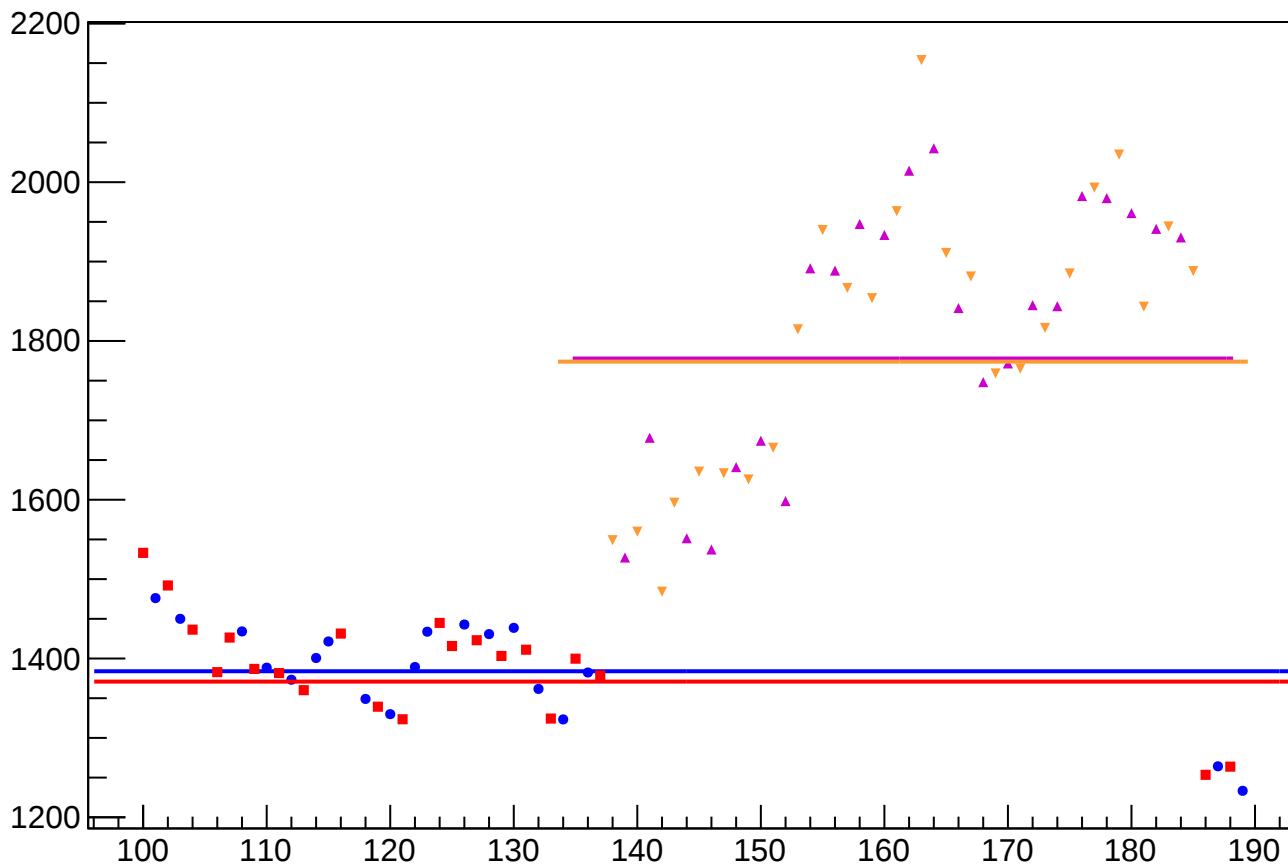
Right: -23.264 ± 0.347 $\chi^2/\text{NDF}: 8380.6/39$

In: -0.975 ± 0.329 $\chi^2/\text{NDF}: 15320.9/41$

Out: -5.039 ± 0.312 $\chi^2/\text{NDF}: 2982.8/45$

All: -3.111 ± 0.226 $\chi^2/\text{NDF}: 18384.2/87$

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: 1370.923+/-0.335 χ^2/NDF : 39355.3/20

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

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

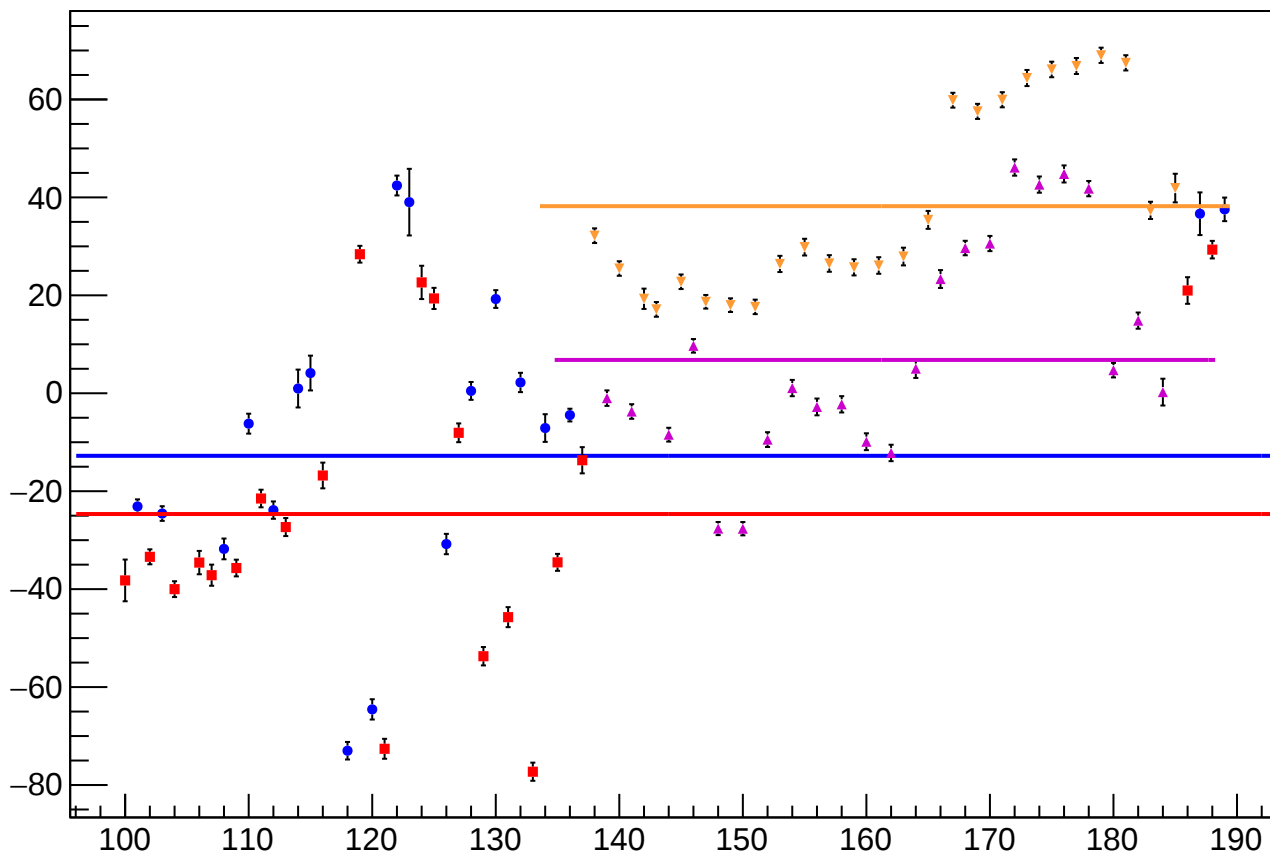
Right: 1376.947+/-0.245 χ^2/NDF : 72039.9/39

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

Out: 1598.763+/-0.221 χ^2/NDF : 1172072.5/45

All: 1606.428+/-0.160 χ^2/NDF : 2203650.3/87

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -12.772 $\pm$ 0.461 χ^2 /NDF: 3939.6/18

Left Out: 38.206 $\pm$ 0.323 χ^2 /NDF:3514.2/24

Right Out: -24.661 $\pm$ 0.437 χ^2 /NDF: 4828.2/20

Left In: 6.808 $\pm$ 0.333 χ^2 /NDF:4494.5/22

Left: 22.967 $\pm$ 0.232 χ^2 /NDF: 12584.4/47

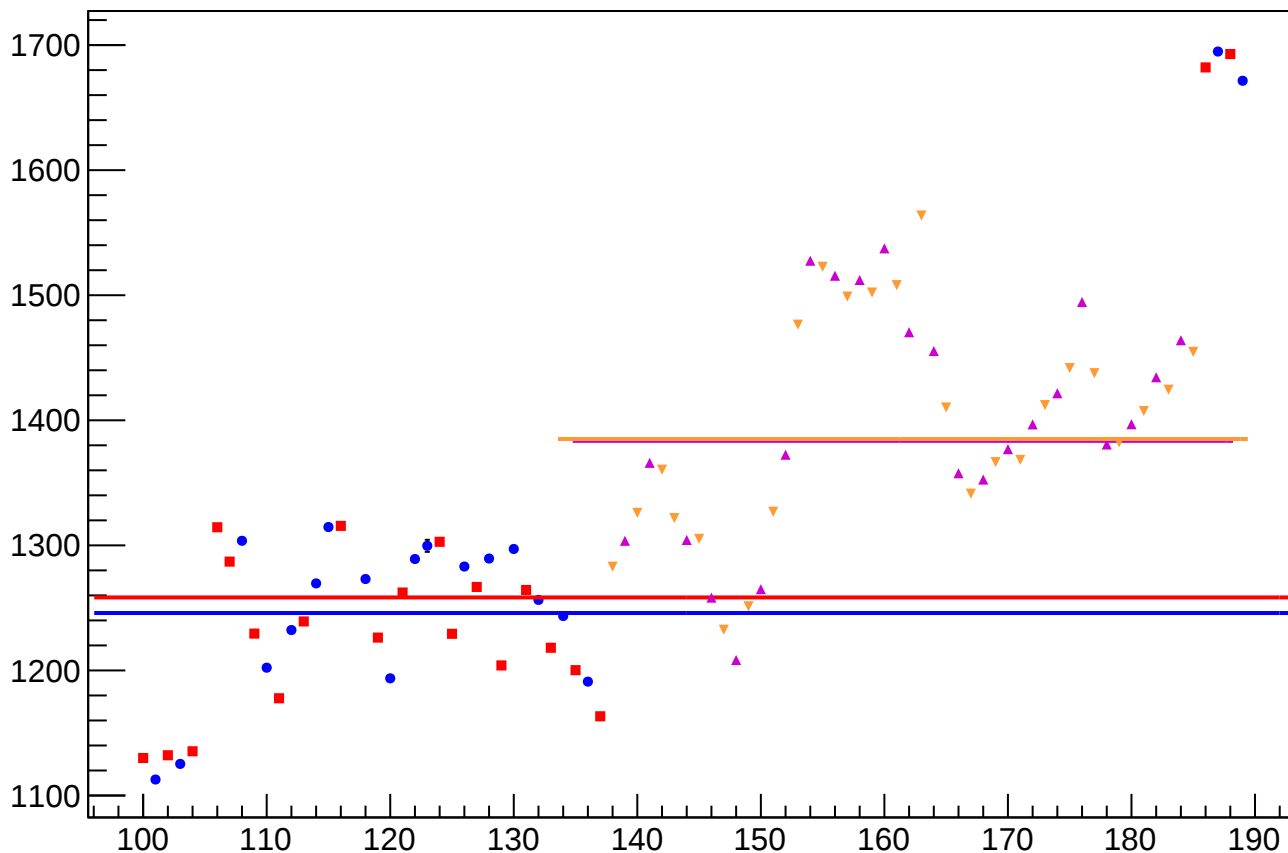
Right: -19.040 $\pm$ 0.317 χ^2 /NDF: 9117.8/39

In: 0.103 $\pm$ 0.270 χ^2 /NDF:9618.2/41

Out: 15.960 $\pm$ 0.260 χ^2 /NDF:21716.6/45

All: 8.333 $\pm$ 0.187 χ^2 /NDF: 33124.7/87

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: 1258.374 $\pm$ 0.309 χ^2 /NDF: 209248.1/20

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

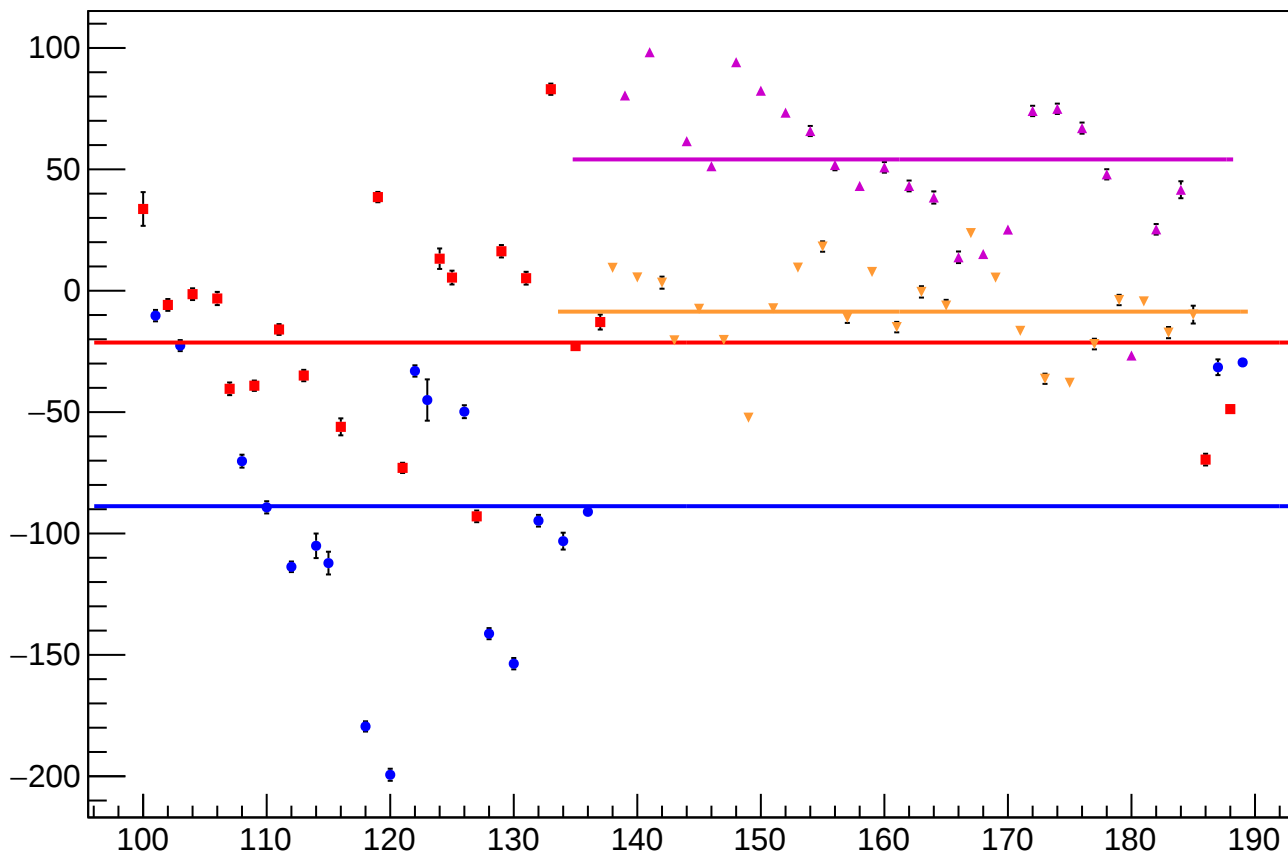
Right: 1252.484 $\pm$ 0.224 χ^2 /NDF: 336712.7/39

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

Out: 1340.233 $\pm$ 0.184 χ^2 /NDF:463873.2/45

All: 1338.401 $\pm$ 0.132 χ^2 /NDF: 862493.2/87

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -88.752 ± 0.561 χ^2/NDF : 9571.0/18

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -21.339 ± 0.522 χ^2/NDF : 6087.7/20

Left In: 54.089 ± 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 ± 0.295 χ^2/NDF : 17900.0/47

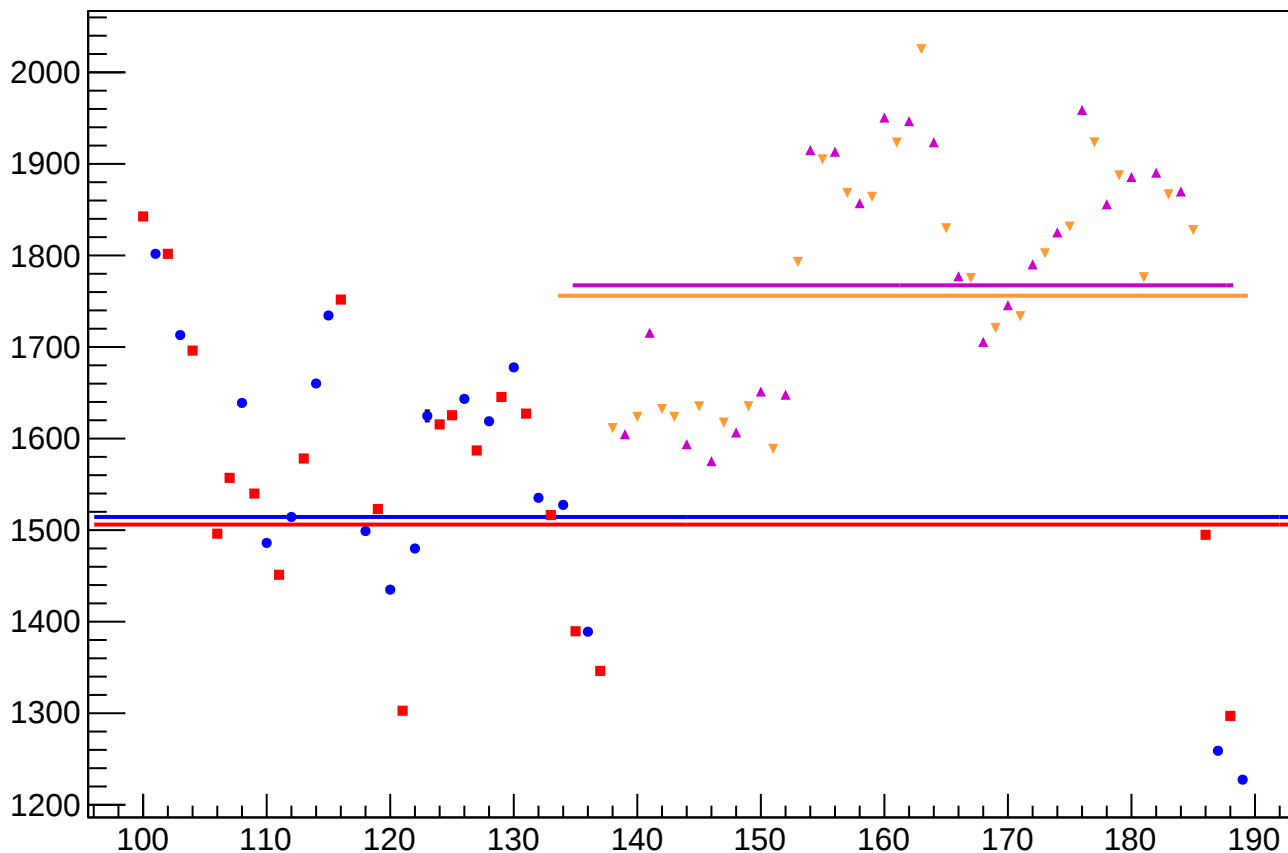
Right: -52.593 ± 0.382 χ^2/NDF : 23391.7/39

In: 1.956 ± 0.339 χ^2/NDF : 55396.5/41

Out: -13.467 ± 0.323 χ^2/NDF : 8386.2/45

All: -6.144 ± 0.234 χ^2/NDF : 64868.5/87

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: 1506.087 $\pm$ 0.369 χ^2 /NDF: 155410.4/20

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

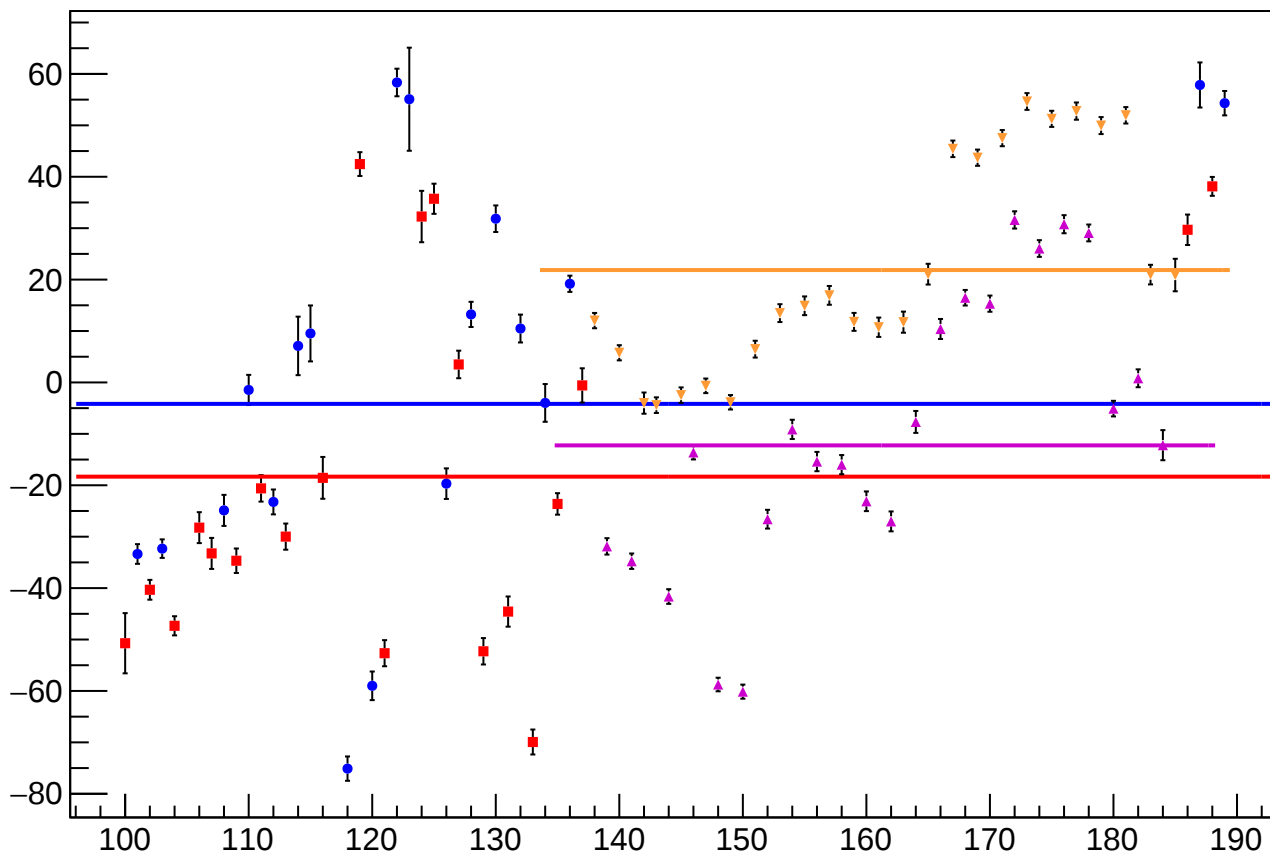
Right: 1509.933 $\pm$ 0.270 χ^2 /NDF: 312031.8/39

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

Out: 1660.601 $\pm$ 0.228 χ^2 /NDF: 614667.2/45

All: 1667.468 $\pm$ 0.165 χ^2 /NDF: 1218875.6/87

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: -18.322 ± 0.563 χ^2/NDF : 3838.9/20

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

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

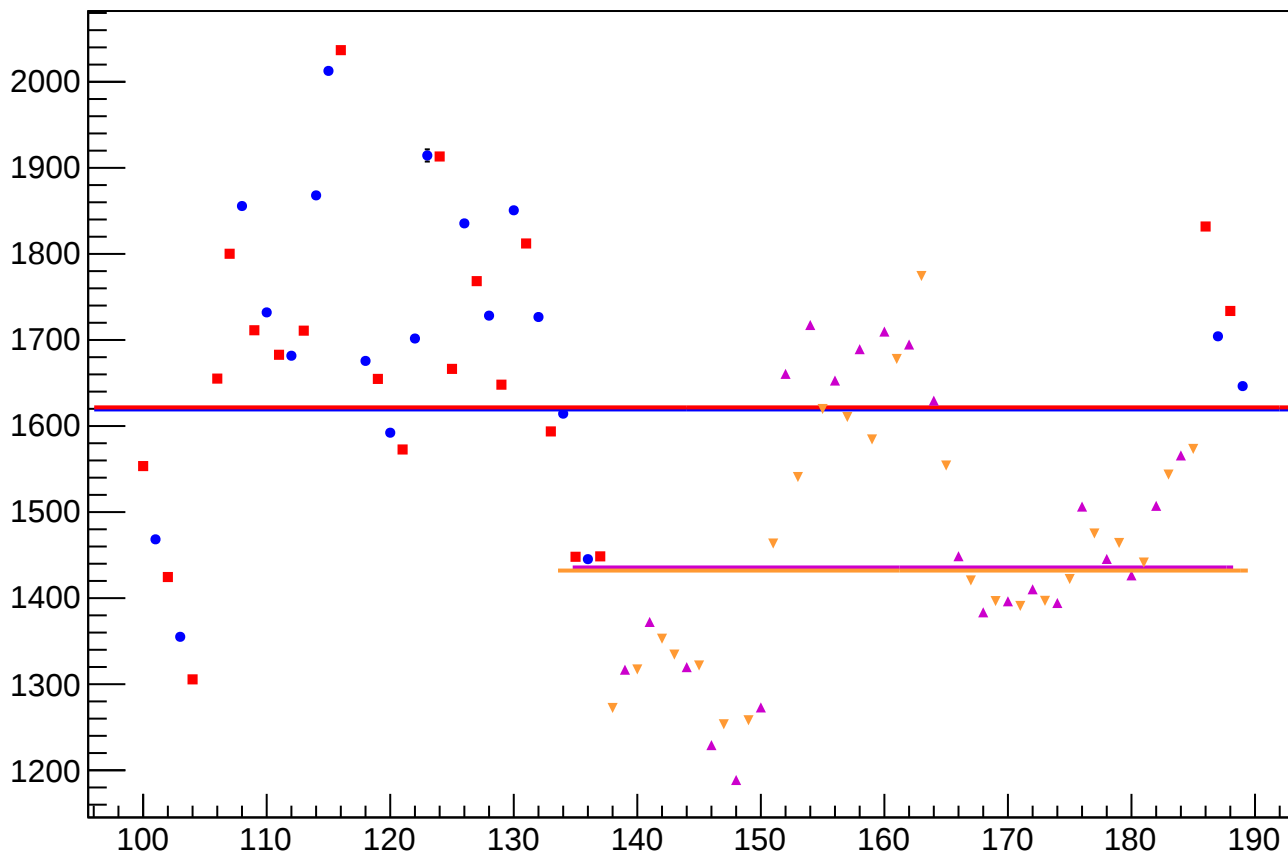
Right: -11.706 ± 0.411 χ^2/NDF : 7922.6/39

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

Out: 11.336 ± 0.288 χ^2/NDF : 11708.4/45

All: 1.010 ± 0.208 χ^2/NDF : 25096.3/87

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1619.263 $\pm$ 0.425 χ^2 /NDF: 150270.4/18

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1621.677 $\pm$ 0.398 χ^2 /NDF: 173431.8/20

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

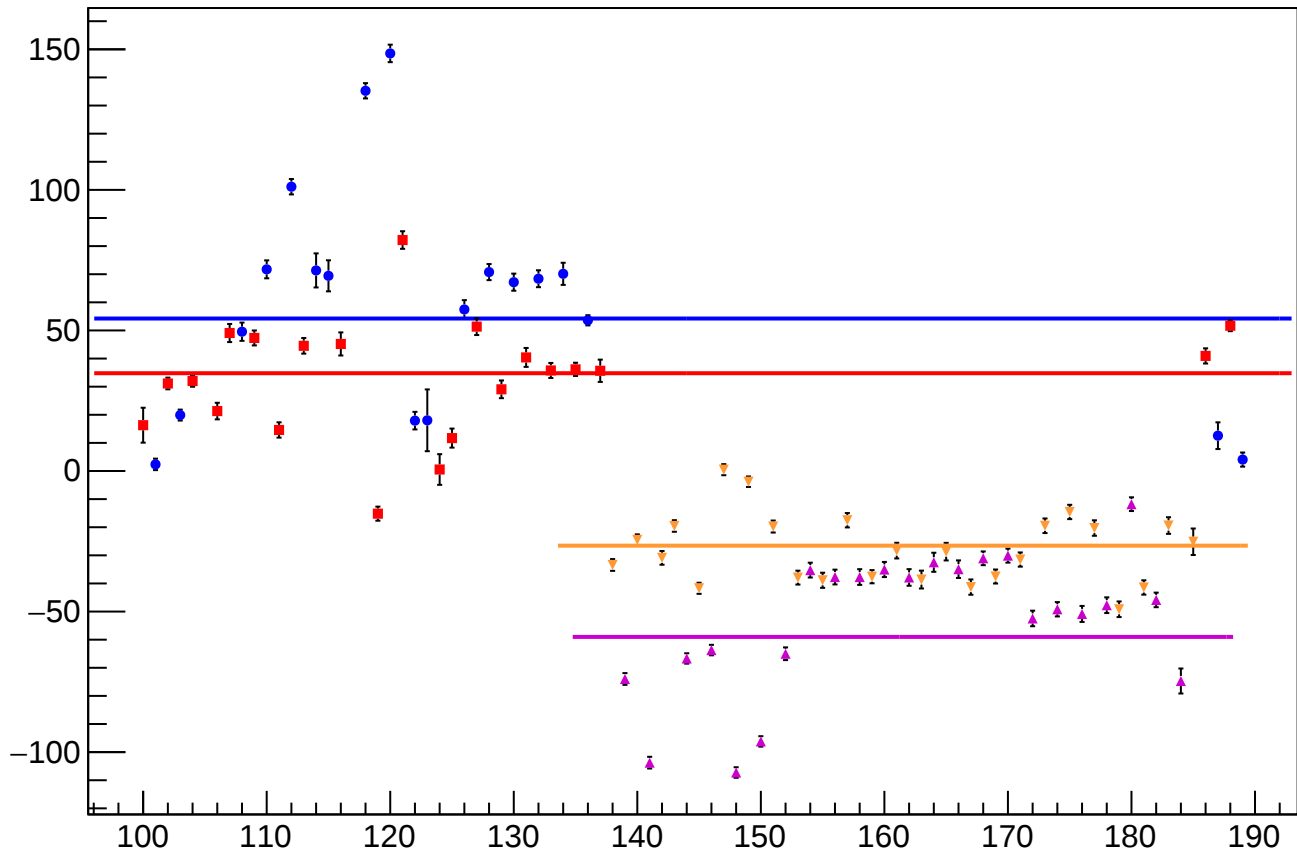
Right: 1620.548 $\pm$ 0.291 χ^2 /NDF: 323719.5/39

In: 1481.581 $\pm$ 0.213 χ^2 /NDF: 711163.4/41

Out: 1481.706 $\pm$ 0.204 χ^2 /NDF: 638239.0/45

All: 1481.646 $\pm$ 0.147 χ^2 /NDF: 1349402.6/87

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: 34.784 $\pm$ 0.615 χ^2/NDF : 981.4/20

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

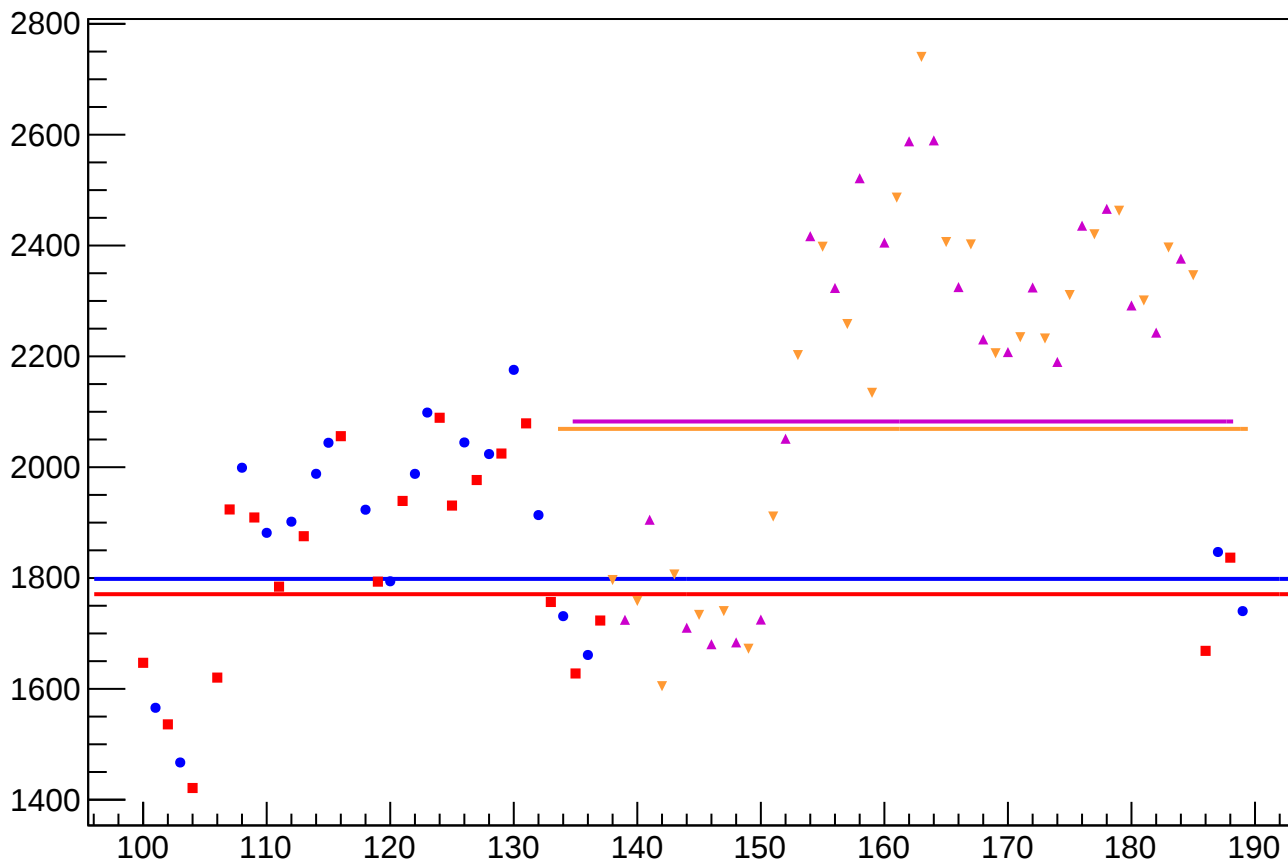
Right: 43.705 $\pm$ 0.452 χ^2/NDF : 5258.2/39

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

Out: -2.849 $\pm$ 0.382 χ^2/NDF : 7808.0/45

All: -9.858 $\pm$ 0.277 χ^2/NDF : 33375.8/87

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1798.447 $\pm$ 0.472 χ^2/NDF : 184886.6/18

Left Out: 2069.146 $\pm$ 0.345 χ^2/NDF : 799037.9/24

Right Out: 1770.860 $\pm$ 0.435 χ^2/NDF : 182993.0/20

Left In: 2082.497 $\pm$ 0.358 χ^2/NDF : 785304.0/22

Left: 2075.572 $\pm$ 0.248 χ^2/NDF : 1585062.9/47

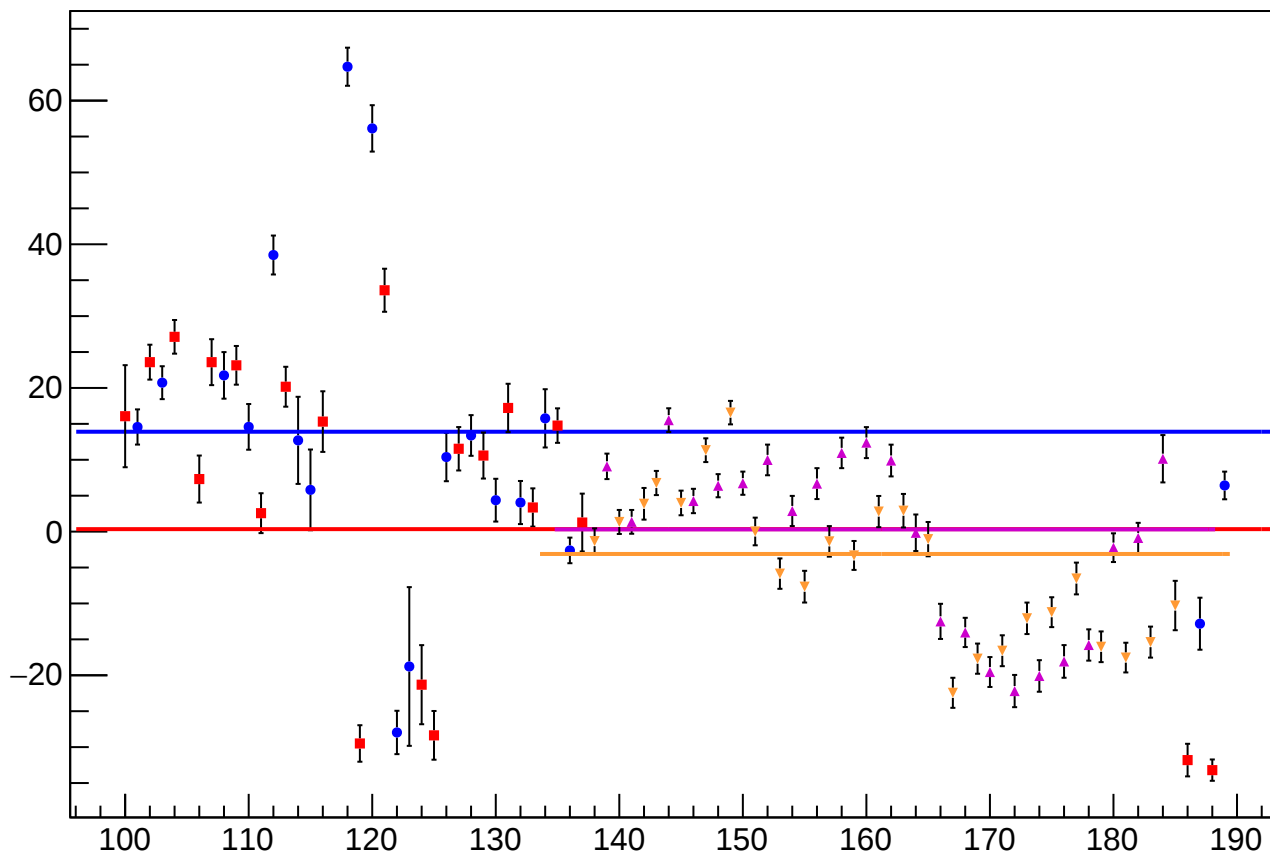
Right: 1783.510 $\pm$ 0.320 χ^2/NDF : 369726.8/39

In: 1978.817 $\pm$ 0.285 χ^2/NDF : 1199857.0/41

Out: 1953.868 $\pm$ 0.270 χ^2/NDF : 1270974.9/45

All: 1965.663 $\pm$ 0.196 χ^2/NDF : 2474862.0/87

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 13.905 $\pm$ 0.665 χ^2/NDF : 1016.2/18

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF :643.7/24

Right Out: 0.345 $\pm$ 0.606 χ^2/NDF : 1566.2/20

Left In: 0.312 $\pm$ 0.421 χ^2/NDF :736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

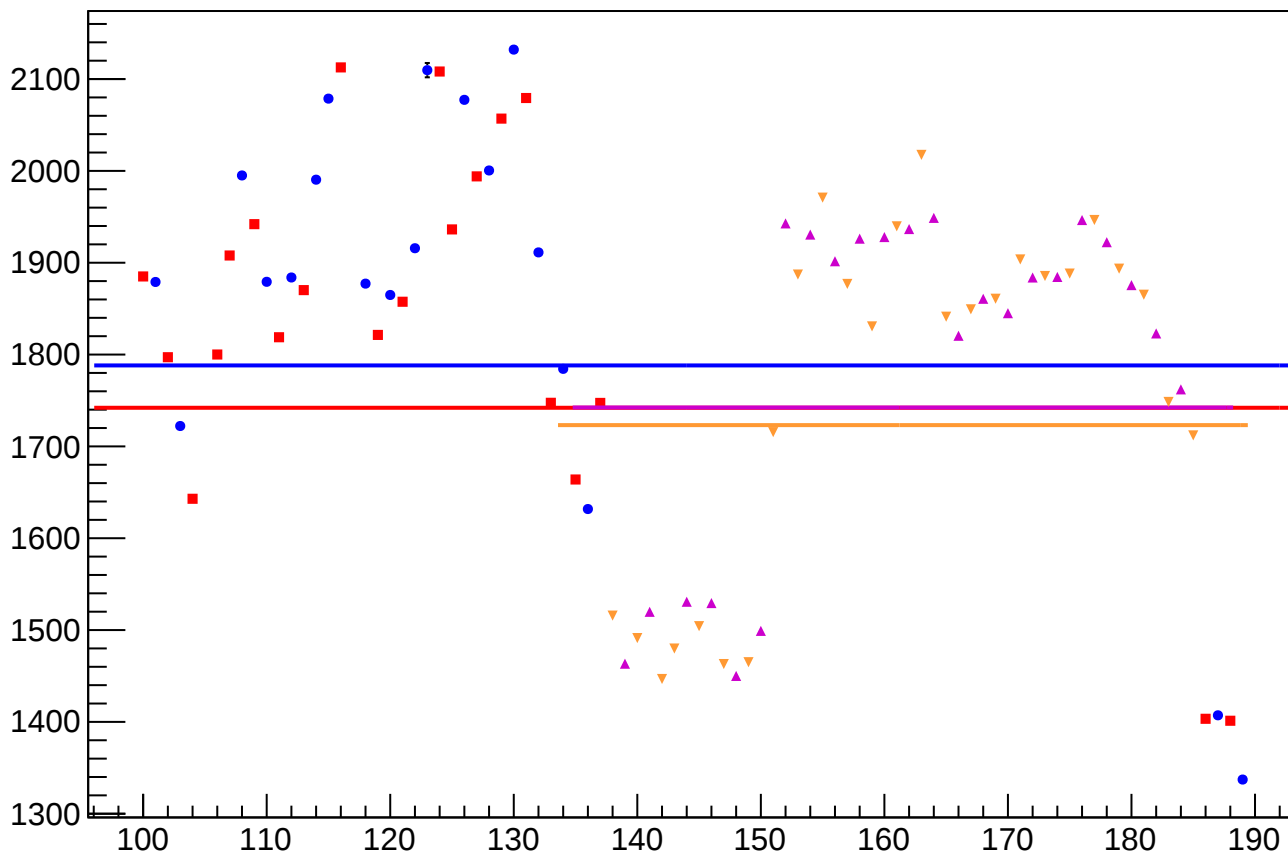
Right: 6.497 $\pm$ 0.448 χ^2/NDF : 2809.5/39

In: 4.201 $\pm$ 0.356 χ^2/NDF :2050.9/41

Out: -2.048 $\pm$ 0.336 χ^2/NDF :2232.5/45

All: 0.901 $\pm$ 0.244 χ^2/NDF : 4446.3/87

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1788.167 ± 0.470 $\chi^2/\text{NDF}: 236183.9/18$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1742.061 ± 0.429 $\chi^2/\text{NDF}: 269362.6/20$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

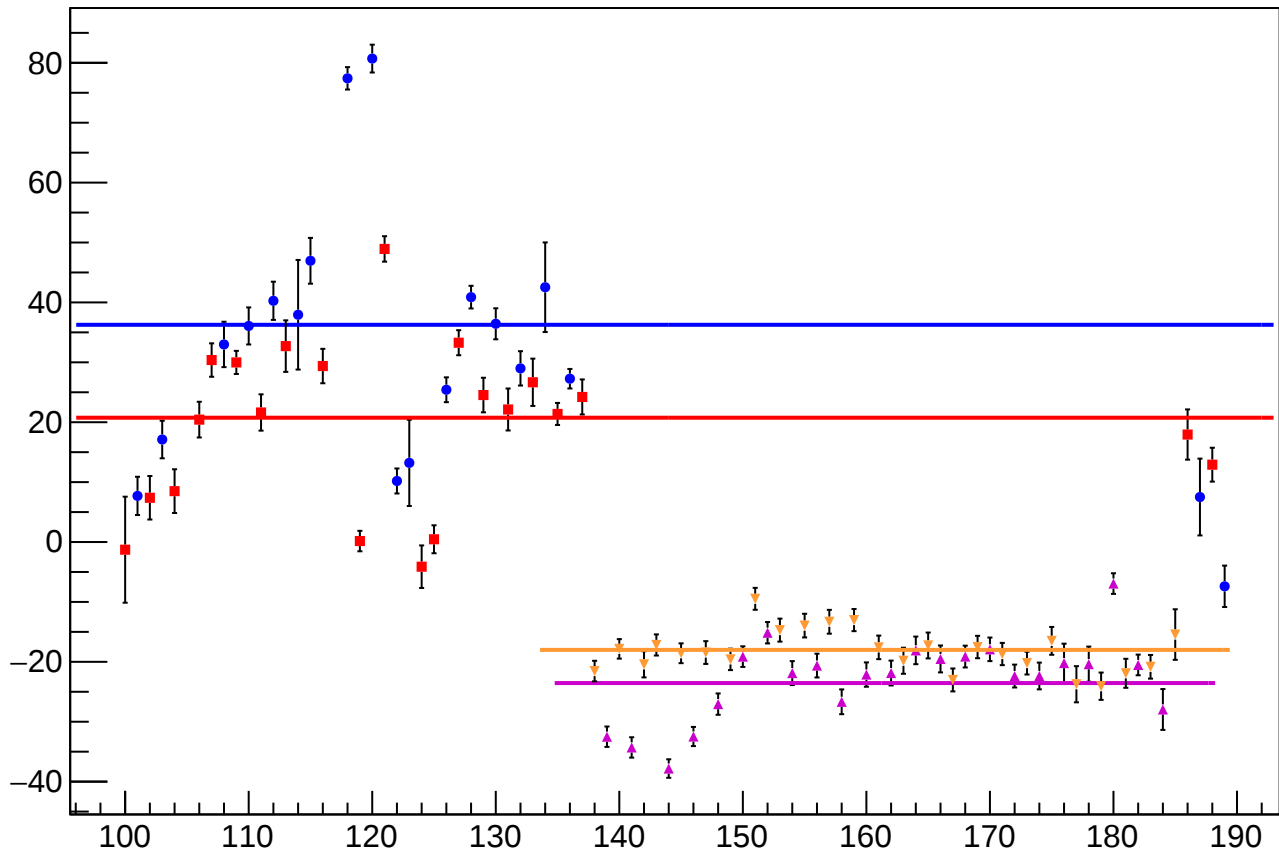
Right: 1762.980 ± 0.317 $\chi^2/\text{NDF}: 510796.5/39$

In: 1755.462 ± 0.252 $\chi^2/\text{NDF}: 678799.3/41$

Out: 1728.984 ± 0.238 $\chi^2/\text{NDF}: 748148.5/45$

All: 1741.479 ± 0.173 $\chi^2/\text{NDF}: 1432798.0/87$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 36.264 $\pm$ 0.625 χ^2 /NDF: 1395.1/18

Left Out: -18.007 $\pm$ 0.397 χ^2 /NDF: 73.8/24

Right Out: 20.754 $\pm$ 0.590 χ^2 /NDF: 578.7/20

Left In: -23.544 $\pm$ 0.406 χ^2 /NDF: 346.7/22

Left: -20.714 $\pm$ 0.284 χ^2 /NDF: 515.7/47

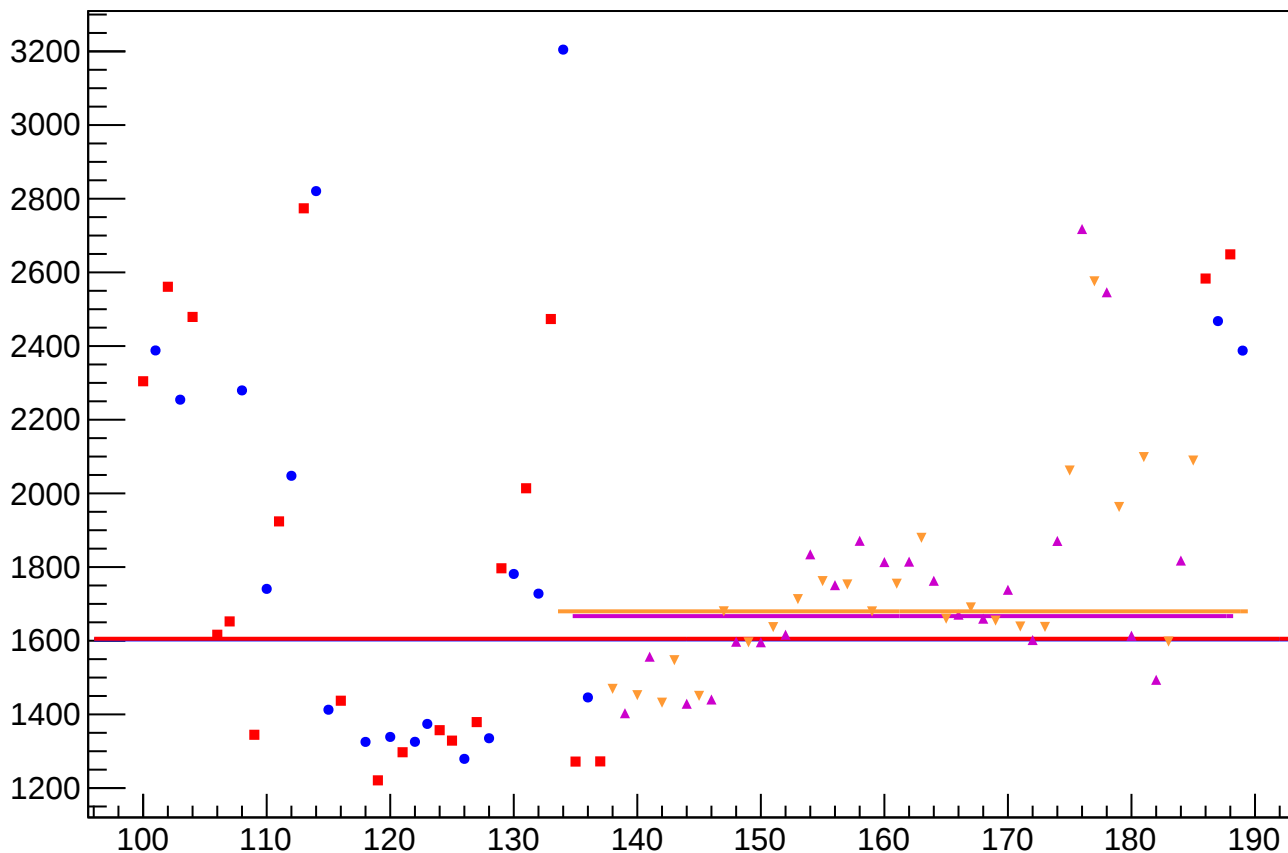
Right: 28.060 $\pm$ 0.429 χ^2 /NDF: 2299.4/39

In: -5.822 $\pm$ 0.340 χ^2 /NDF: 8183.0/41

Out: -5.938 $\pm$ 0.329 χ^2 /NDF: 3625.2/45

All: -5.882 $\pm$ 0.237 χ^2 /NDF: 11808.3/87

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1603.549 ± 0.442 $\chi^2/\text{NDF}: 813545.1/18$

Left Out: 1679.814 ± 0.281 $\chi^2/\text{NDF}: 522795.6/24$

Right Out: 1605.369 ± 0.417 $\chi^2/\text{NDF}: 1289252.4/20$

Left In: 1666.819 ± 0.287 $\chi^2/\text{NDF}: 650990.8/22$

Left: 1673.462 ± 0.201 $\chi^2/\text{NDF}: 1174835.7/47$

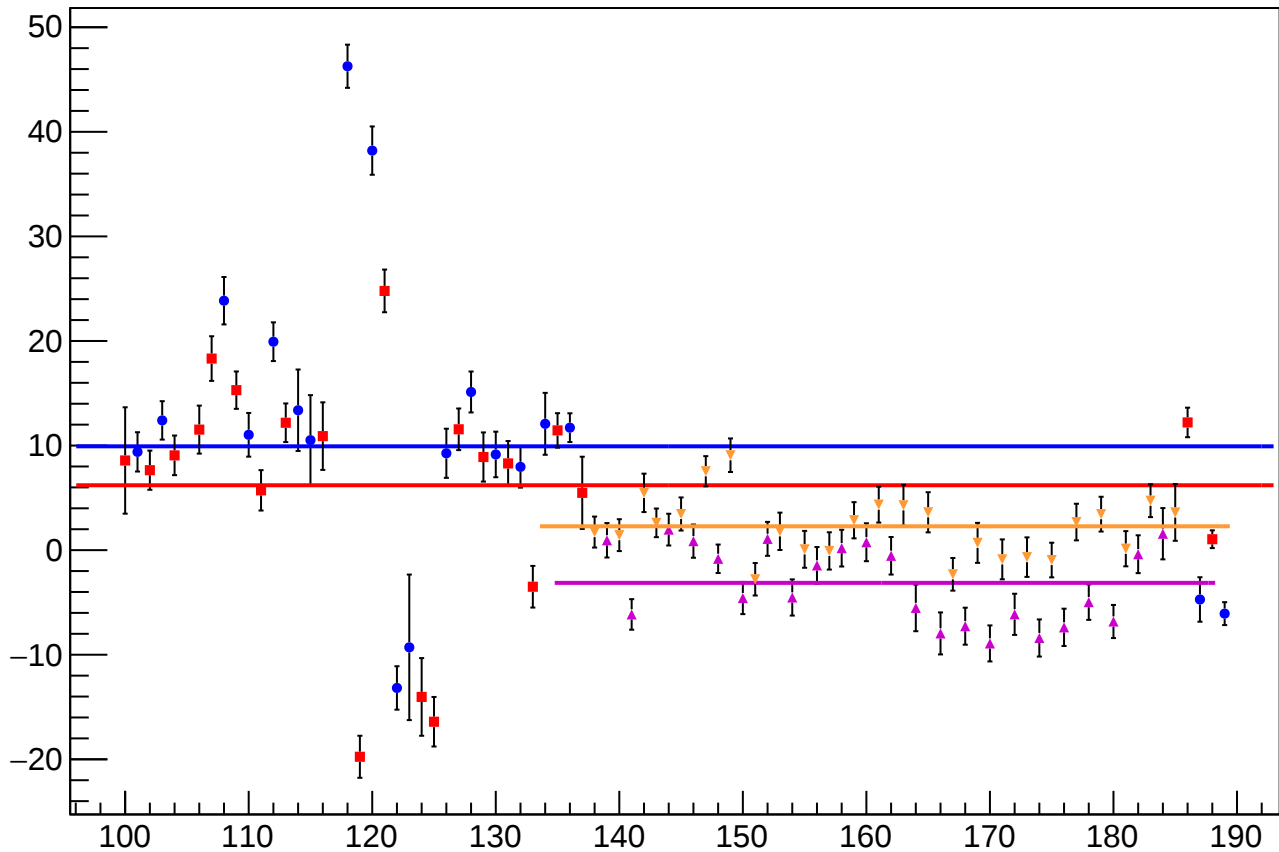
Right: 1604.512 ± 0.303 $\chi^2/\text{NDF}: 2102806.5/39$

In: 1648.070 ± 0.241 $\chi^2/\text{NDF}: 1478952.5/41$

Out: 1656.635 ± 0.233 $\chi^2/\text{NDF}: 1833979.8/45$

All: 1652.495 ± 0.167 $\chi^2/\text{NDF}: 3313586.7/87$

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: 6.204 ± 0.409 $\chi^2/\text{NDF}: 548.3/20$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

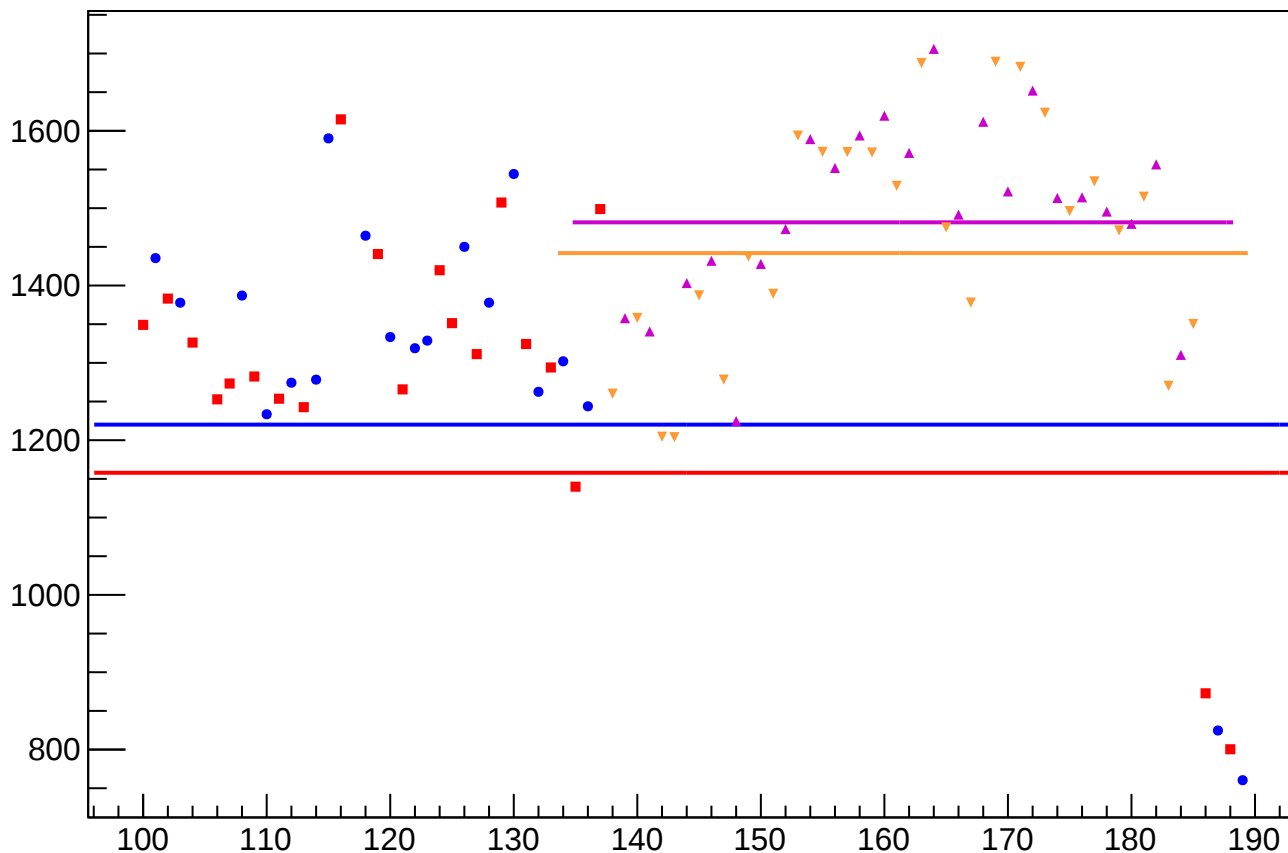
Right: 7.844 ± 0.306 $\chi^2/\text{NDF}: 1517.3/39$

In: 1.770 ± 0.283 $\chi^2/\text{NDF}: 1536.0/41$

Out: 3.872 ± 0.261 $\chi^2/\text{NDF}: 678.5/45$

All: 2.906 ± 0.192 $\chi^2/\text{NDF}: 2244.3/87$

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: 1157.905 ± 0.289 χ^2/NDF : 717723.1/20

Left In: 1481.695 ± 0.253 χ^2/NDF : 208470.6/22

Left: 1460.716 ± 0.174 χ^2/NDF : 592125.7/47

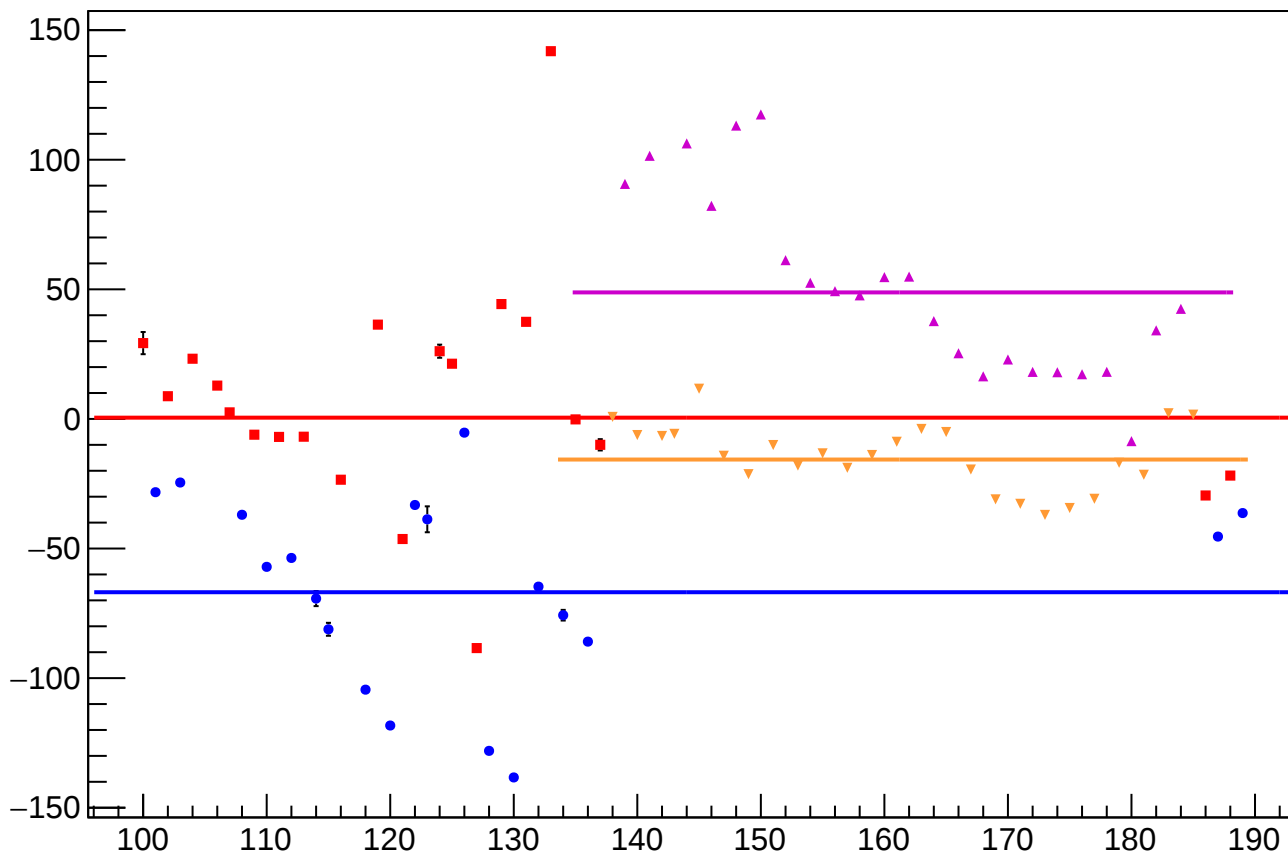
Right: 1185.315 ± 0.217 χ^2/NDF : 1345602.2/39

In: 1383.558 ± 0.200 χ^2/NDF : 1217357.5/41

Out: 1326.722 ± 0.184 χ^2/NDF : 1660505.9/45

All: 1352.850 ± 0.136 χ^2/NDF : 2921543.8/87

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: 0.490 ± 0.297 χ^2/NDF : 20990.5/20

Left In: 48.812 ± 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 ± 0.152 χ^2/NDF : 73443.2/47

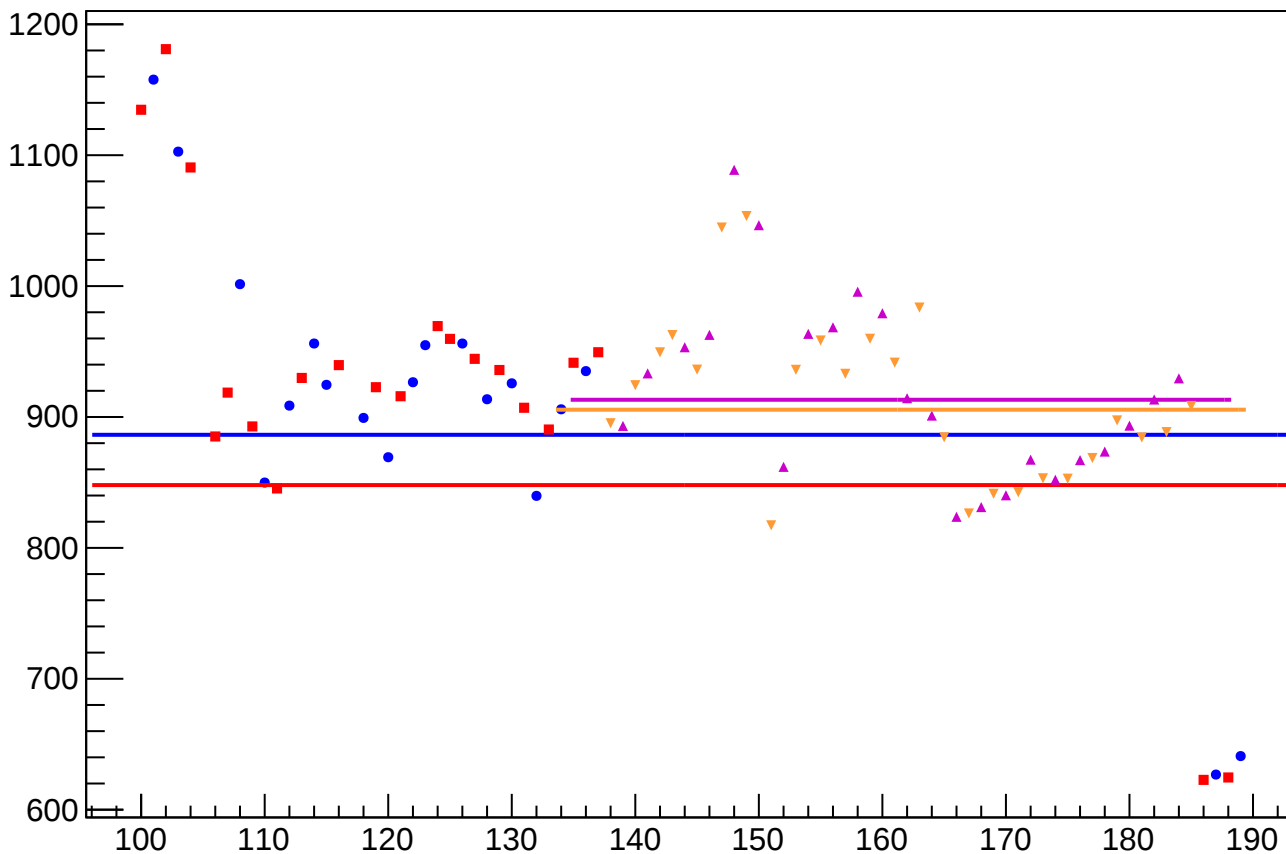
Right: -29.638 ± 0.221 χ^2/NDF : 57052.6/39

In: 13.346 ± 0.183 χ^2/NDF : 123252.8/41

Out: -10.241 ± 0.172 χ^2/NDF : 26467.7/45

All: 0.843 ± 0.126 χ^2/NDF : 158518.0/87

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 886.395 ± 0.234 χ^2/NDF : 331304.1/18

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 847.984 ± 0.210 χ^2/NDF : 552431.2/20

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

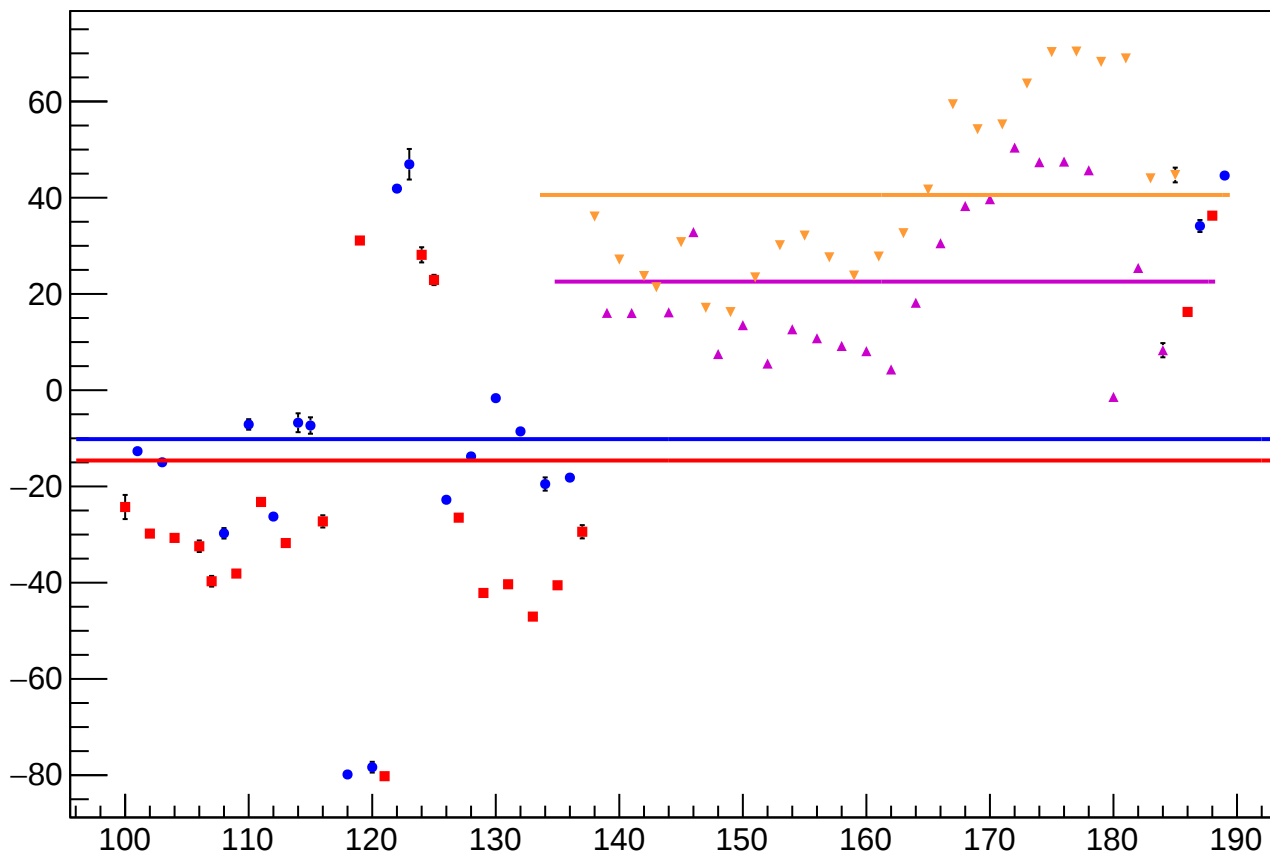
Right: 865.167 ± 0.156 χ^2/NDF : 898652.3/39

In: 904.957 ± 0.129 χ^2/NDF : 514833.2/41

Out: 886.238 ± 0.122 χ^2/NDF : 764299.9/45

All: 895.034 ± 0.089 χ^2/NDF : 1290214.7/87

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: -14.609 ± 0.206 χ^2/NDF : 27437.2/20

Left In: 22.565 ± 0.175 χ^2/NDF : 8167.7/22

Left: 31.959 ± 0.121 χ^2/NDF : 25752.7/47

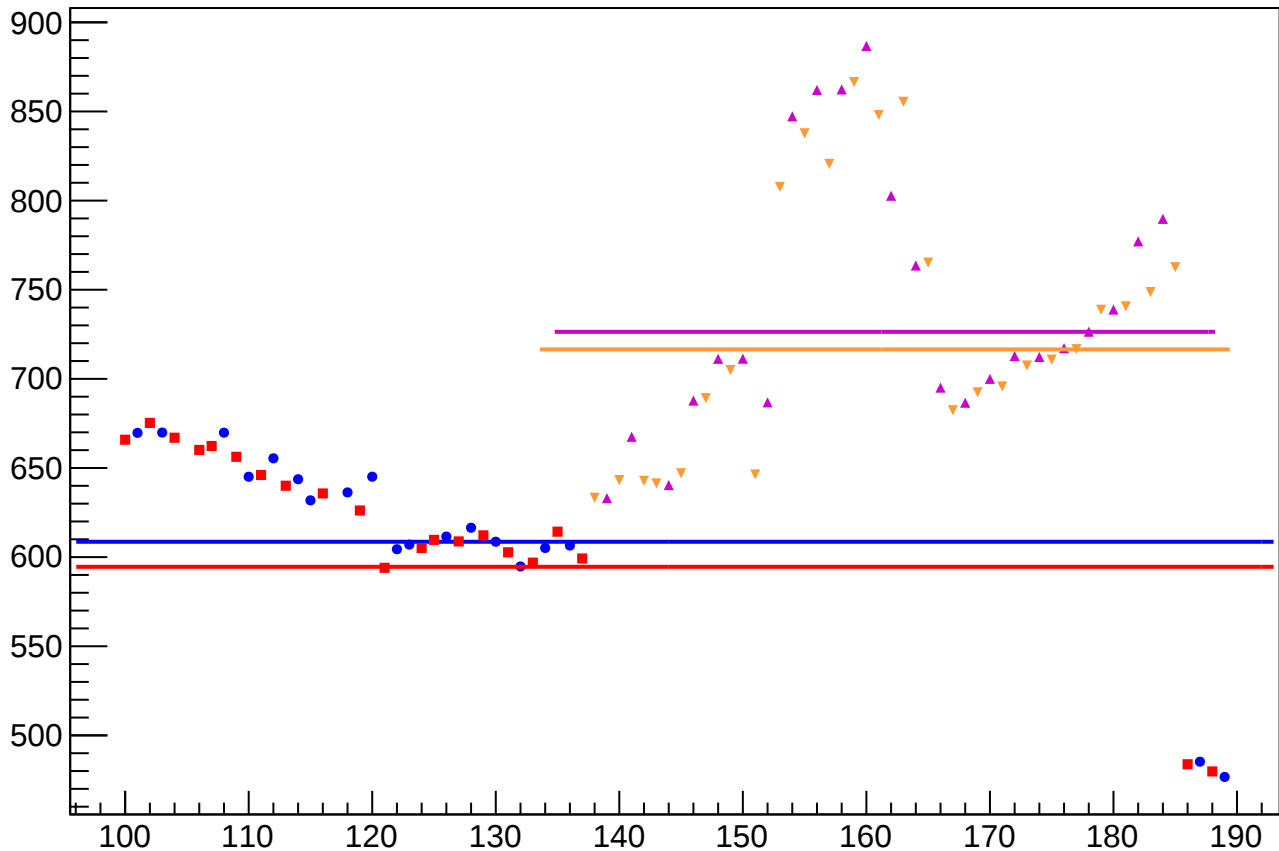
Right: -12.584 ± 0.152 χ^2/NDF : 49517.2/39

In: 10.229 ± 0.138 χ^2/NDF : 43179.8/41

Out: 18.600 ± 0.130 χ^2/NDF : 82557.7/45

All: 14.669 ± 0.095 χ^2/NDF : 127679.0/87

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 608.618 $\pm$ 0.159 χ^2 /NDF: 131988.7/18

Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF: 342740.2/24

Right Out: 594.566 $\pm$ 0.146 χ^2 /NDF: 211482.0/20

Left In: 726.390 $\pm$ 0.124 χ^2 /NDF: 289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47

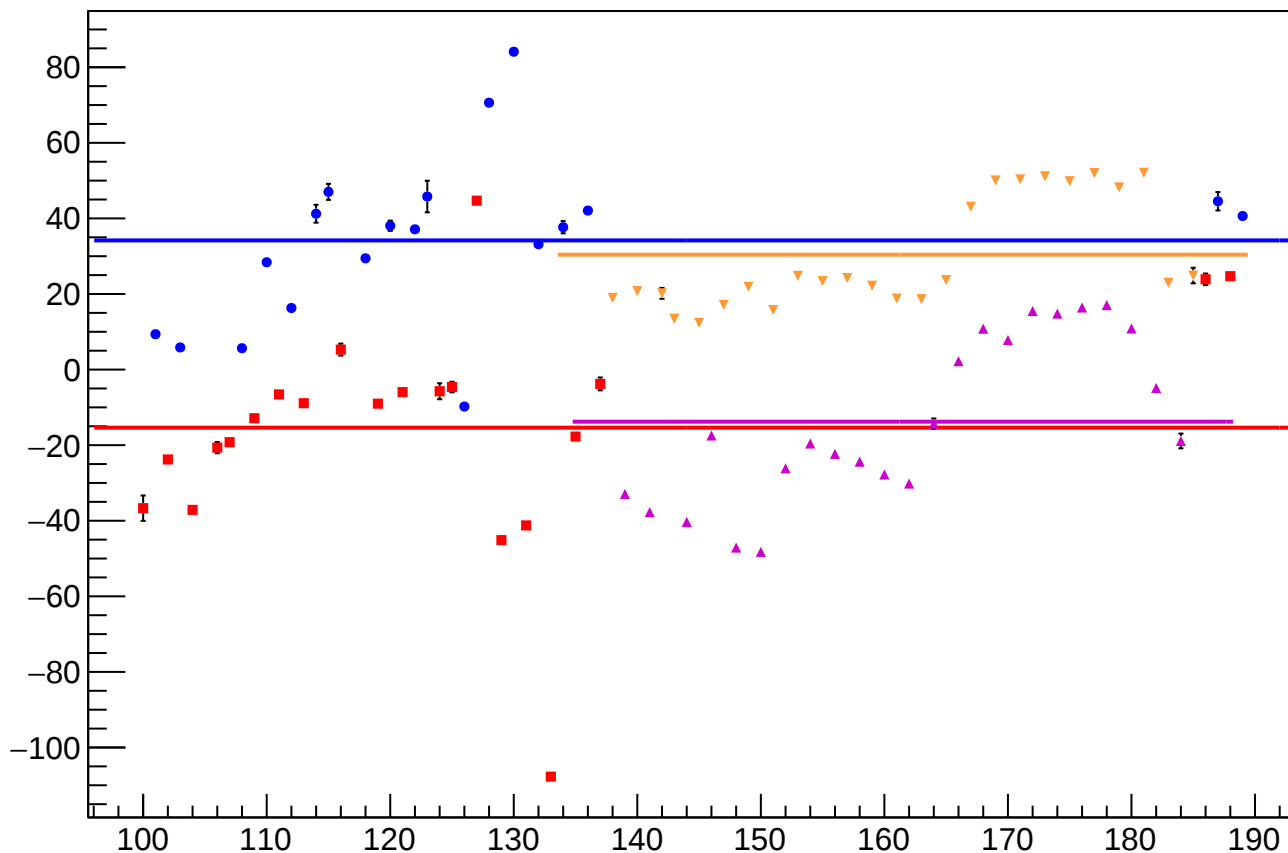
Right: 600.973 $\pm$ 0.108 χ^2 /NDF: 347700.5/39

In: 682.003 $\pm$ 0.098 χ^2 /NDF: 762068.0/41

Out: 667.956 $\pm$ 0.092 χ^2 /NDF: 974645.9/45

All: 674.553 $\pm$ 0.067 χ^2 /NDF: 1747645.7/87

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: -15.367 ± 0.276 χ^2/NDF : 13858.5/20

Left In: -13.787 ± 0.246 χ^2/NDF : 7979.7/22

Left: 9.082 ± 0.171 χ^2/NDF : 28511.9/47

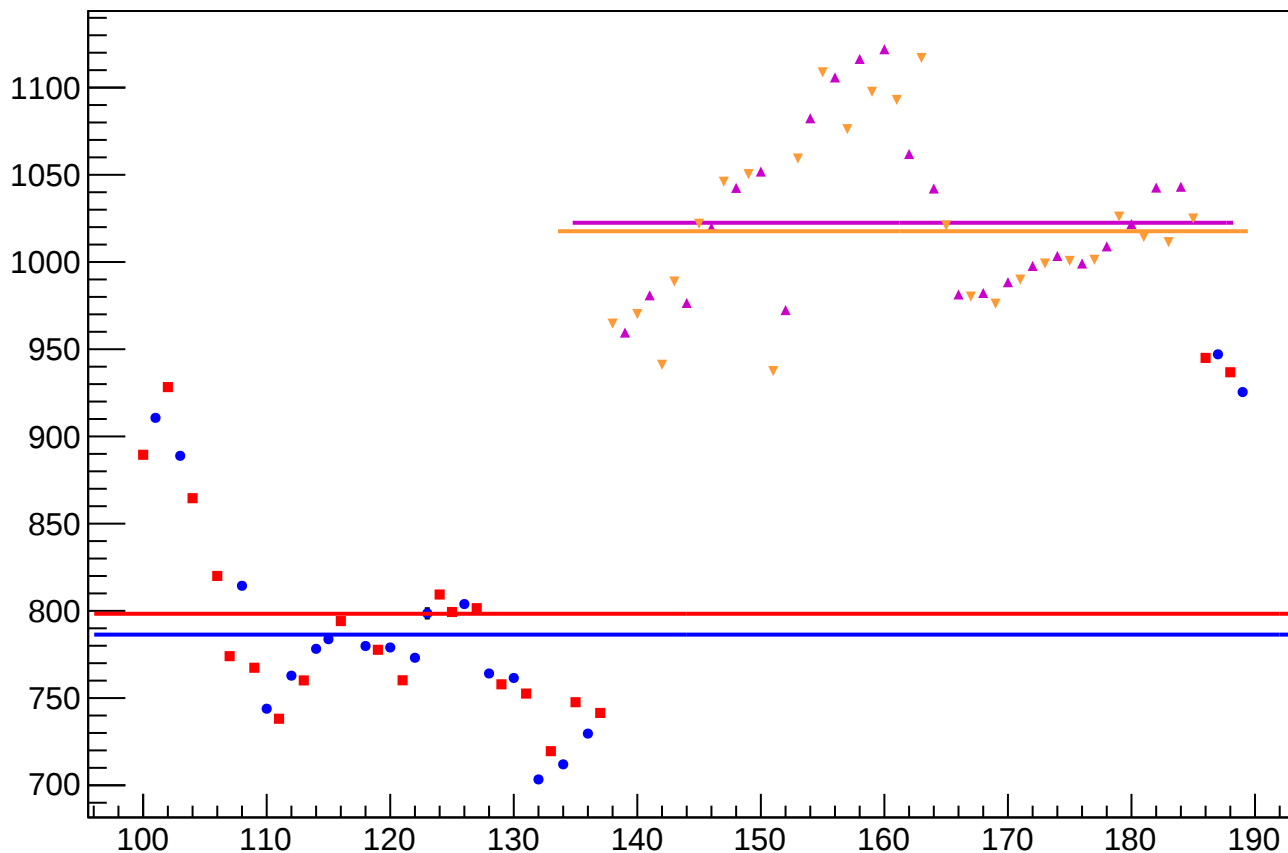
Right: 8.132 ± 0.200 χ^2/NDF : 35572.5/39

In: 6.190 ± 0.188 χ^2/NDF : 30307.9/41

Out: 10.974 ± 0.180 χ^2/NDF : 33451.4/45

All: 8.682 ± 0.130 χ^2/NDF : 64097.4/87

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 786.385 $\pm$ 0.206 χ^2/NDF : 99948.4/18

Left Out: 1017.653 $\pm$ 0.168 χ^2/NDF : 83612.5/24

Right Out: 798.334 $\pm$ 0.195 χ^2/NDF : 121874.5/20

Left In: 1022.511 $\pm$ 0.174 χ^2/NDF : 69635.5/22

Left: 1019.997 $\pm$ 0.121 χ^2/NDF : 153652.2/47

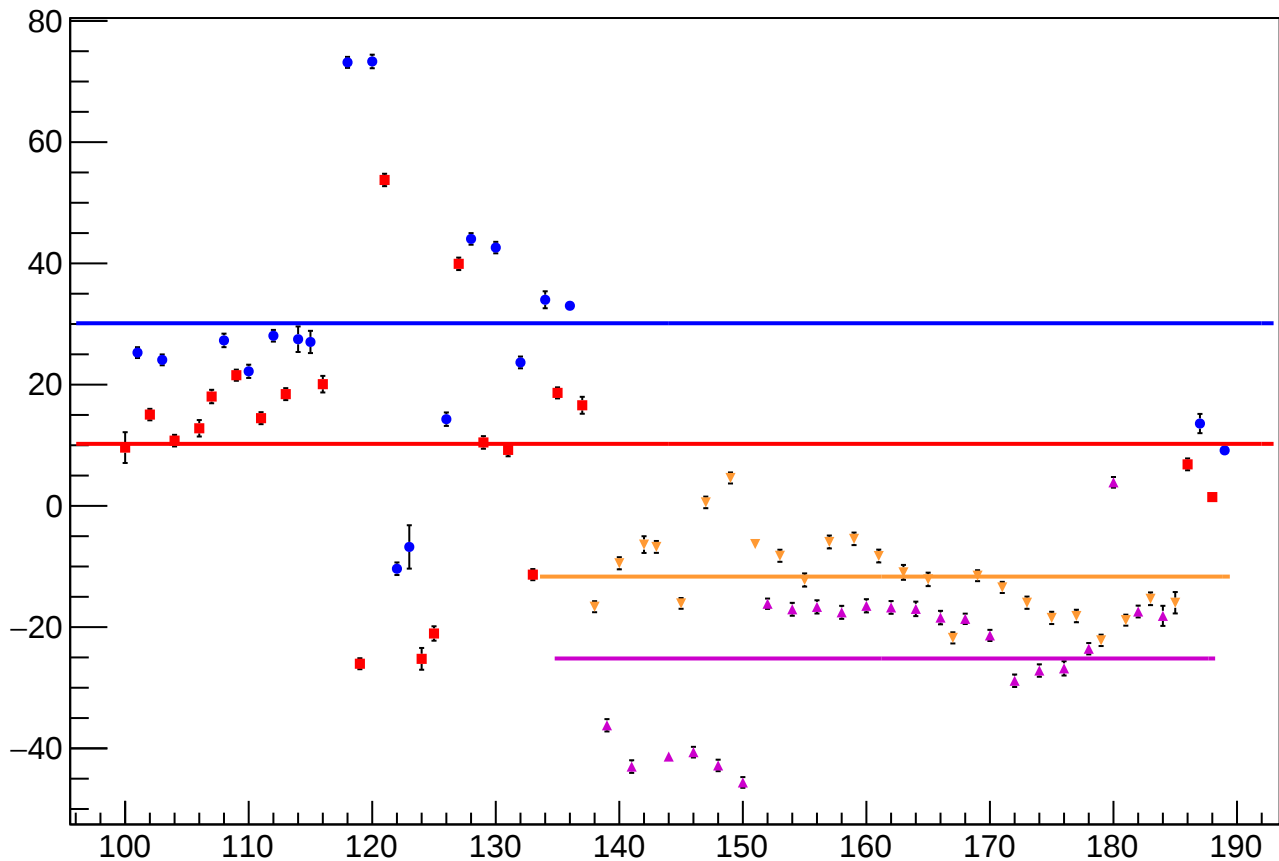
Right: 792.667 $\pm$ 0.142 χ^2/NDF : 223595.9/39

In: 924.168 $\pm$ 0.133 χ^2/NDF : 938104.2/41

Out: 924.539 $\pm$ 0.127 χ^2/NDF : 930201.4/45

All: 924.361 $\pm$ 0.092 χ^2/NDF : 1868309.6/87

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 30.126 ± 0.239 $\chi^2/\text{NDF}: 6932.2/18$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 10.231 ± 0.225 $\chi^2/\text{NDF}: 6547.1/20$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

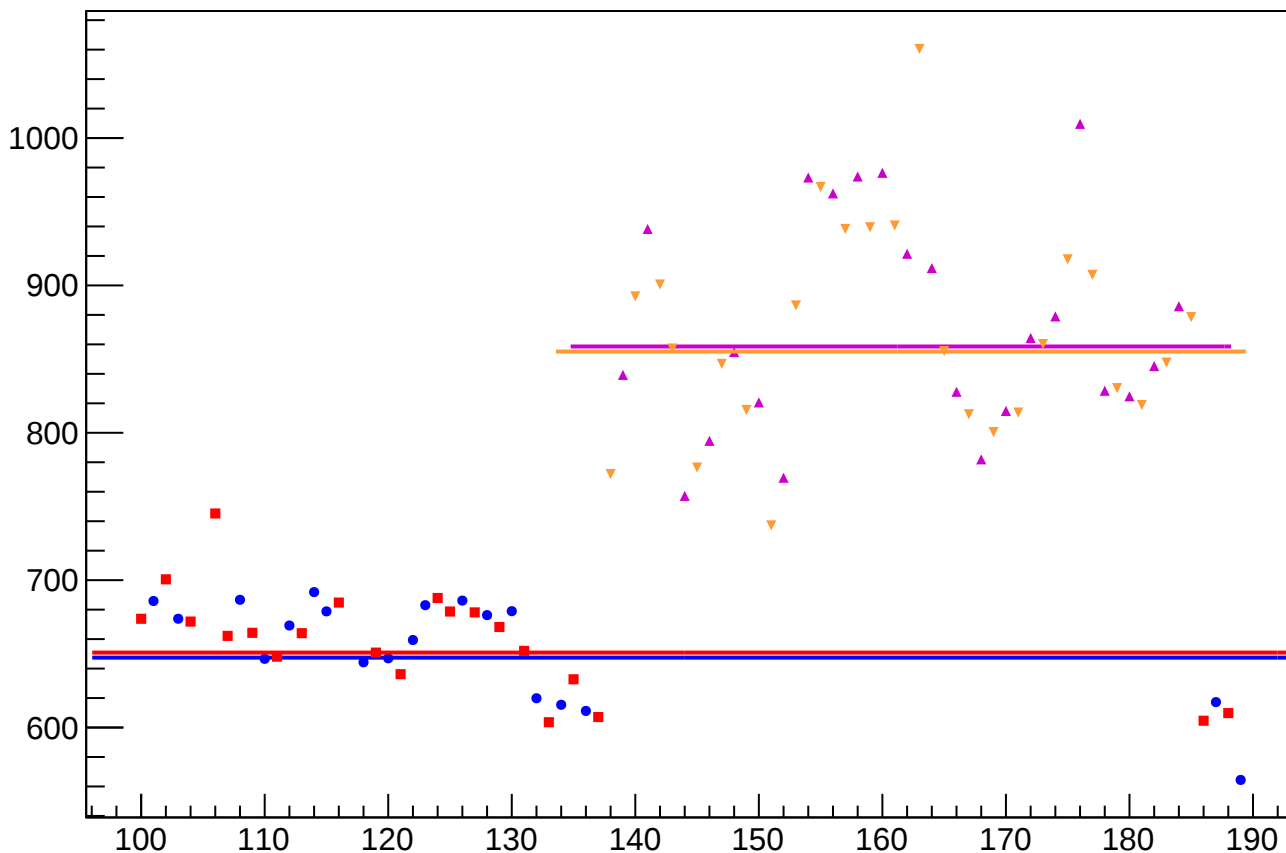
Right: 19.562 ± 0.164 $\chi^2/\text{NDF}: 17151.5/39$

In: -1.449 ± 0.157 $\chi^2/\text{NDF}: 41187.9/41$

Out: -1.977 ± 0.150 $\chi^2/\text{NDF}: 12981.8/45$

All: -1.725 ± 0.108 $\chi^2/\text{NDF}: 54175.6/87$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 647.436 ± 0.169 χ^2/NDF : 47110.4/18

Left Out: 855.131 ± 0.142 χ^2/NDF : 233746.7/24

Right Out: 650.864 ± 0.159 χ^2/NDF : 43476.6/20

Left In: 858.563 ± 0.147 χ^2/NDF : 239019.8/22

Left: 856.788 ± 0.102 χ^2/NDF : 473049.9/47

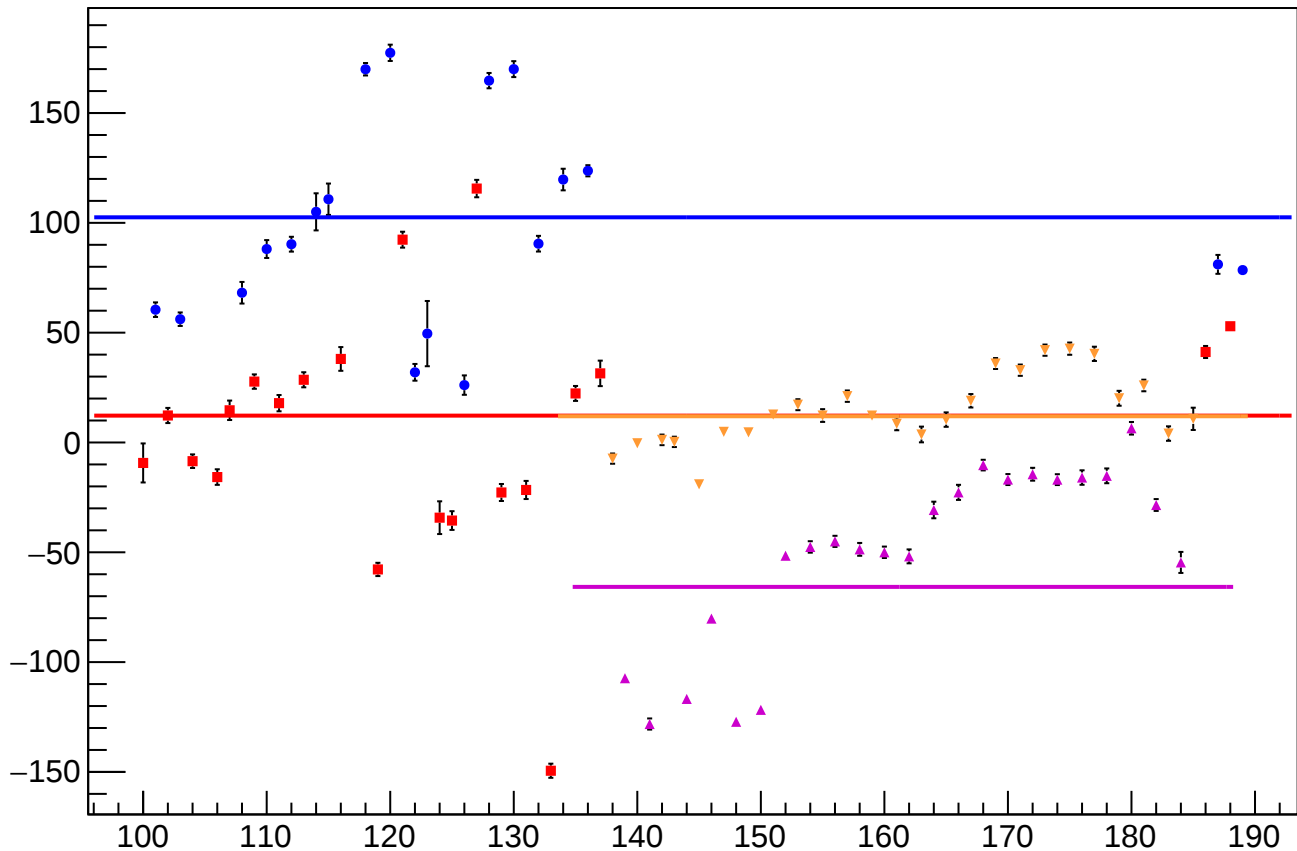
Right: 649.256 ± 0.116 χ^2/NDF : 90805.0/39

In: 767.984 ± 0.111 χ^2/NDF : 1175524.9/41

Out: 764.759 ± 0.106 χ^2/NDF : 1197617.7/45

All: 766.296 ± 0.077 χ^2/NDF : 2373585.9/87

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 102.519 ± 0.834 χ^2/NDF : 2995.0/18

Left Out: 11.938 ± 0.505 χ^2/NDF : 976.6/24

Right Out: 12.225 ± 0.758 χ^2/NDF : 5414.2/20

Left In: -65.752 ± 0.518 χ^2/NDF : 7335.8/22

Left: -25.968 ± 0.362 χ^2/NDF : 19845.5/47

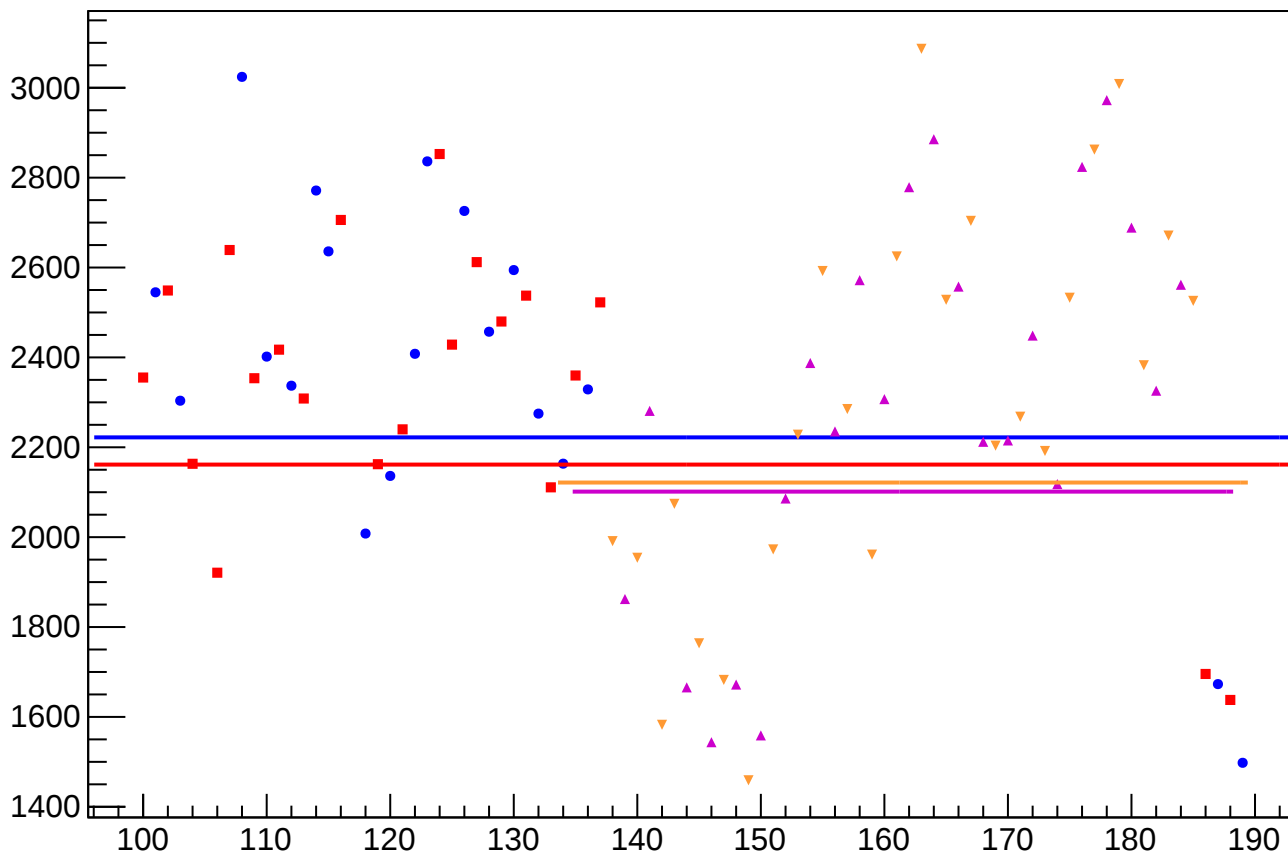
Right: 53.053 ± 0.561 χ^2/NDF : 14833.1/39

In: -18.938 ± 0.440 χ^2/NDF : 39724.9/41

Out: 12.027 ± 0.420 χ^2/NDF : 6391.0/45

All: -2.756 ± 0.304 χ^2/NDF : 48706.1/87

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2222.050 +/- 0.590 χ^2/NDF : 429441.0/18

Left Out: 2121.567 +/- 0.357 χ^2/NDF : 1387847.6/24

Right Out: 2161.507 +/- 0.536 χ^2/NDF : 436022.5/20

Left In: 2101.325 +/- 0.366 χ^2/NDF : 1360518.3/22

Left: 2111.691 +/- 0.256 χ^2/NDF : 2749931.8/47

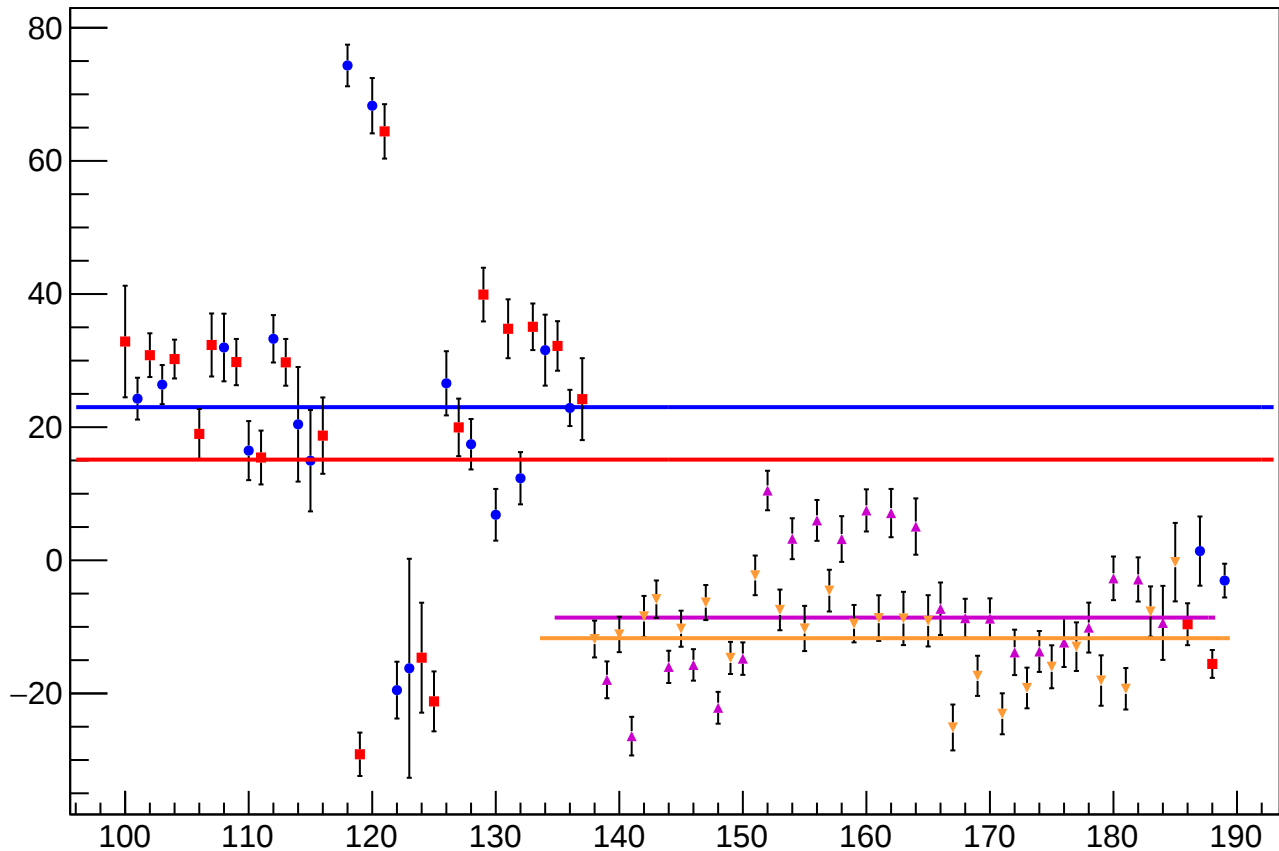
Right: 2188.882 +/- 0.396 χ^2/NDF : 871239.5/39

In: 2134.911 +/- 0.311 χ^2/NDF : 1820219.0/41

Out: 2133.866 +/- 0.297 χ^2/NDF : 1827717.4/45

All: 2134.365 +/- 0.215 χ^2/NDF : 3647942.2/87

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: 15.127 $\pm$ 0.819 χ^2/NDF : 903.0/20

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

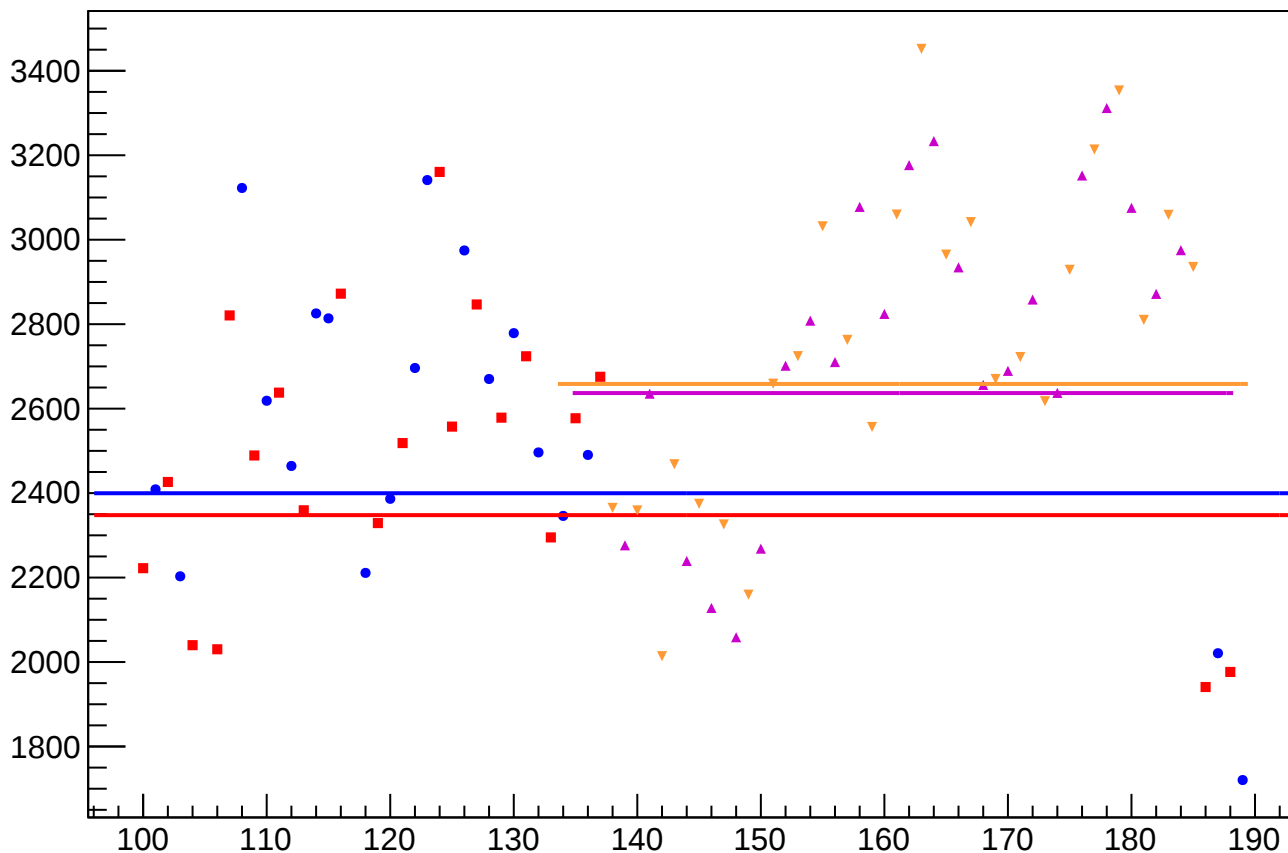
Right: 18.710 $\pm$ 0.605 χ^2/NDF : 1607.5/39

In: 2.094 $\pm$ 0.522 χ^2/NDF : 1747.5/41

Out: -1.825 $\pm$ 0.497 χ^2/NDF : 1665.2/45

All: 0.039 $\pm$ 0.360 χ^2/NDF : 3442.3/87

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: 2347.826 $\pm$ 0.579 χ^2 /NDF: 273599.6/20

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

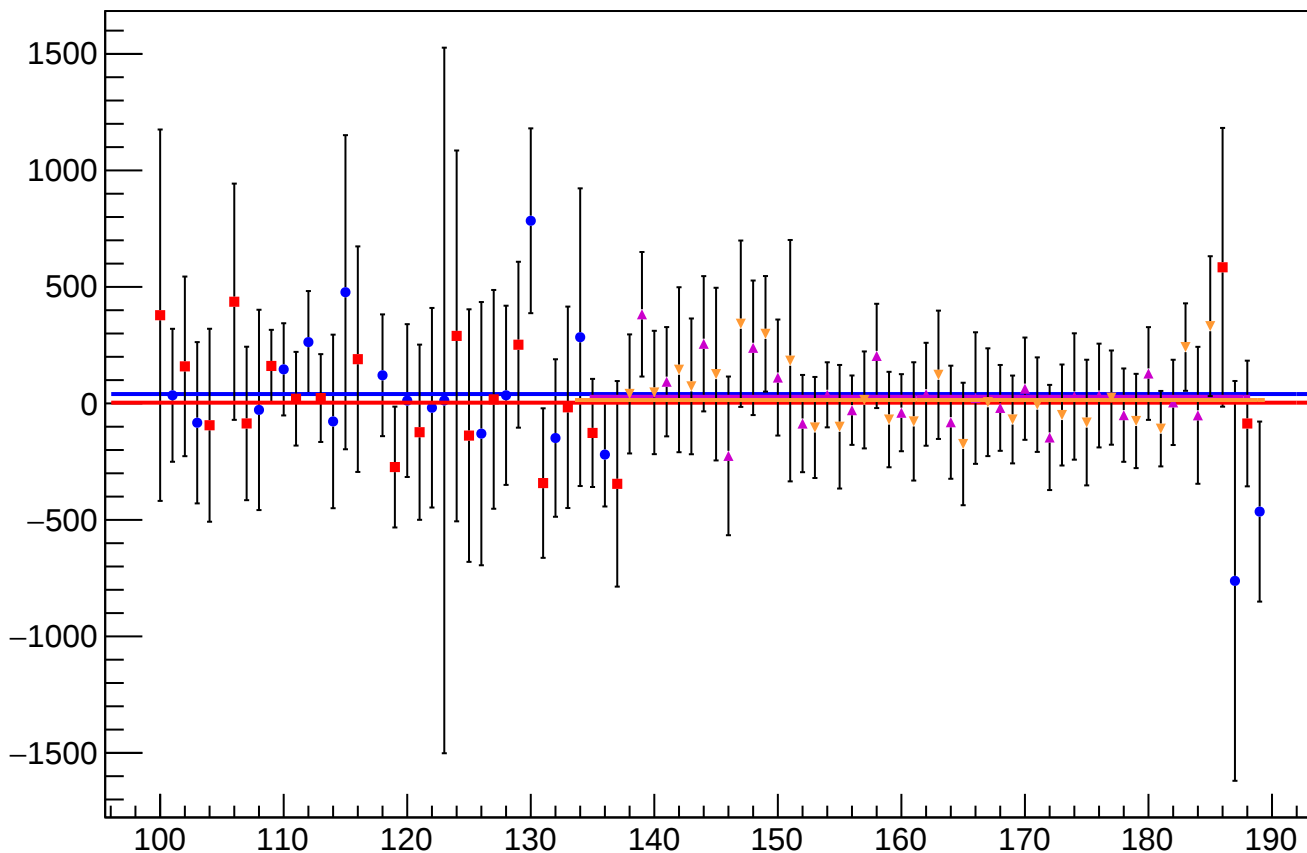
Right: 2371.409 $\pm$ 0.428 χ^2 /NDF: 579518.8/39

In: 2556.605 $\pm$ 0.369 χ^2 /NDF: 1047591.0/41

Out: 2544.131 $\pm$ 0.352 χ^2 /NDF: 1073366.7/45

All: 2550.063 $\pm$ 0.255 χ^2 /NDF: 2121556.4/87

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: 3.136+/-67.317 χ^2/NDF : 7.5/20

Left In: 28.310+/-44.638 χ^2/NDF : 6.3/22

Left: 21.847+/-32.538 χ^2/NDF : 14.1/47

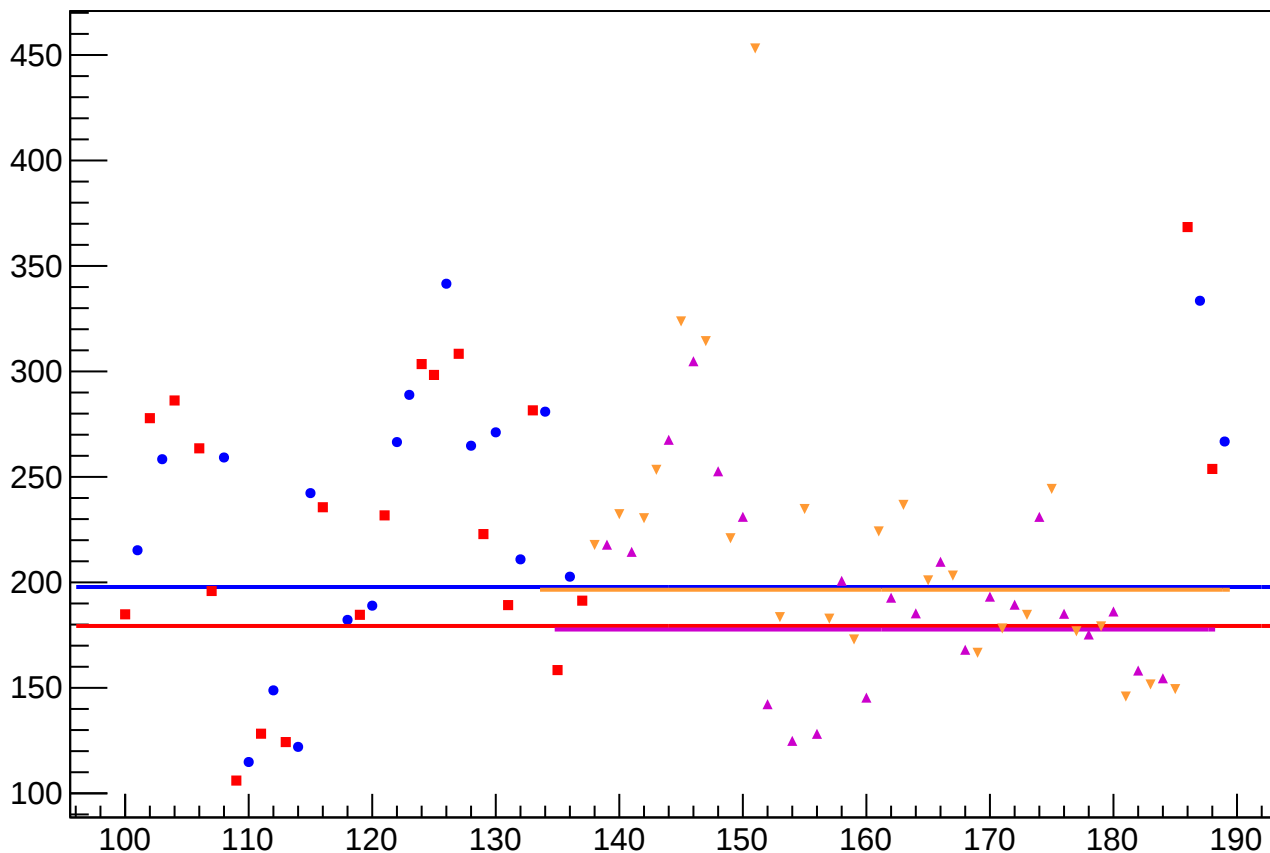
Right: 19.111+/-50.768 χ^2/NDF : 17.8/39

In: 31.278+/-38.657 χ^2/NDF : 16.4/41

Out: 10.733+/-38.826 χ^2/NDF : 15.3/45

All: 21.050+/-27.394 χ^2/NDF : 31.9/87

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: 179.342 $\pm$ 0.048 χ^2 /NDF: 1947175.6/20

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

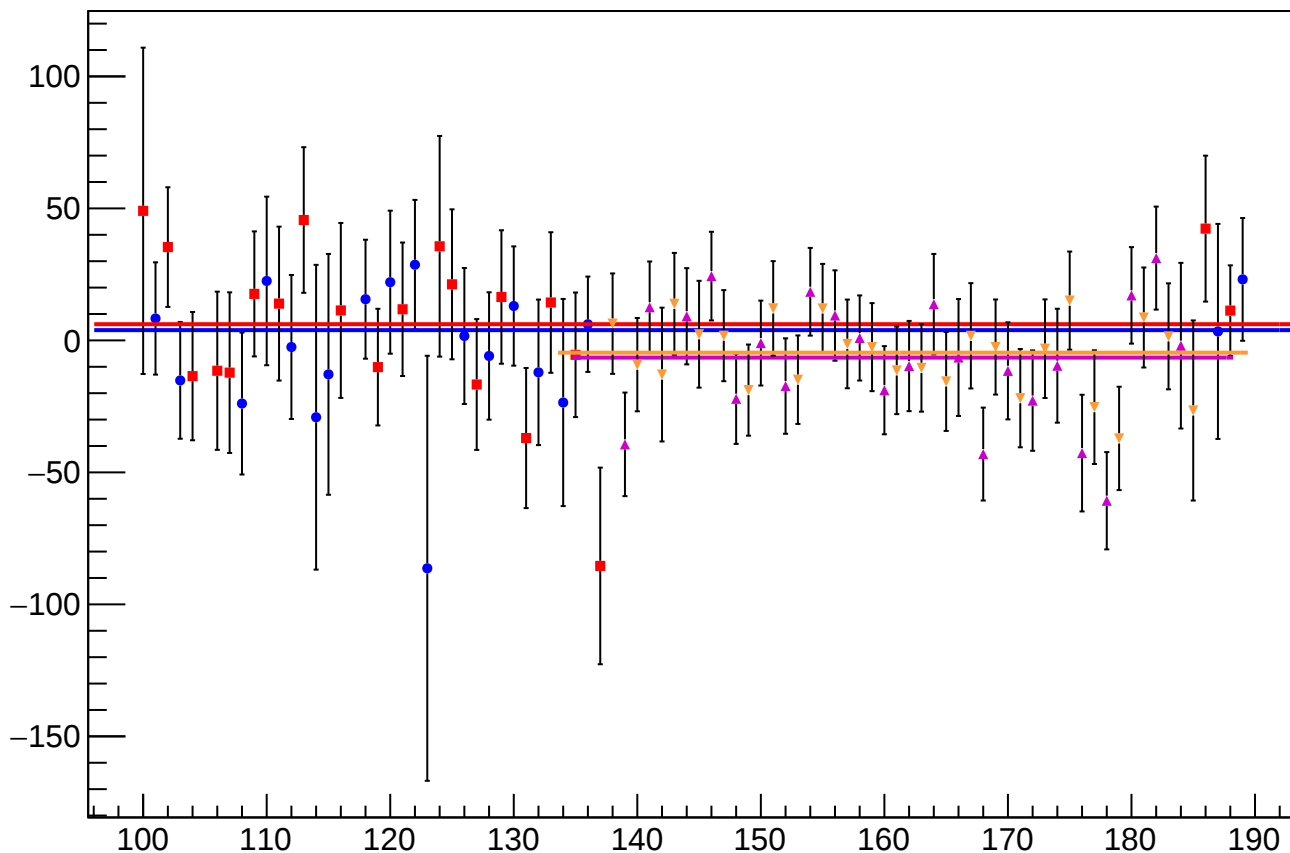
Right: 187.305 $\pm$ 0.036 χ^2 /NDF: 3142183.4/39

In: 182.685 $\pm$ 0.027 χ^2 /NDF: 2862814.0/41

Out: 190.801 $\pm$ 0.027 χ^2 /NDF: 3823533.8/45

All: 186.725 $\pm$ 0.019 χ^2 /NDF: 6730240.4/87

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: 6.137 ± 5.778 $\chi^2/\text{NDF}: 19.1/20$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

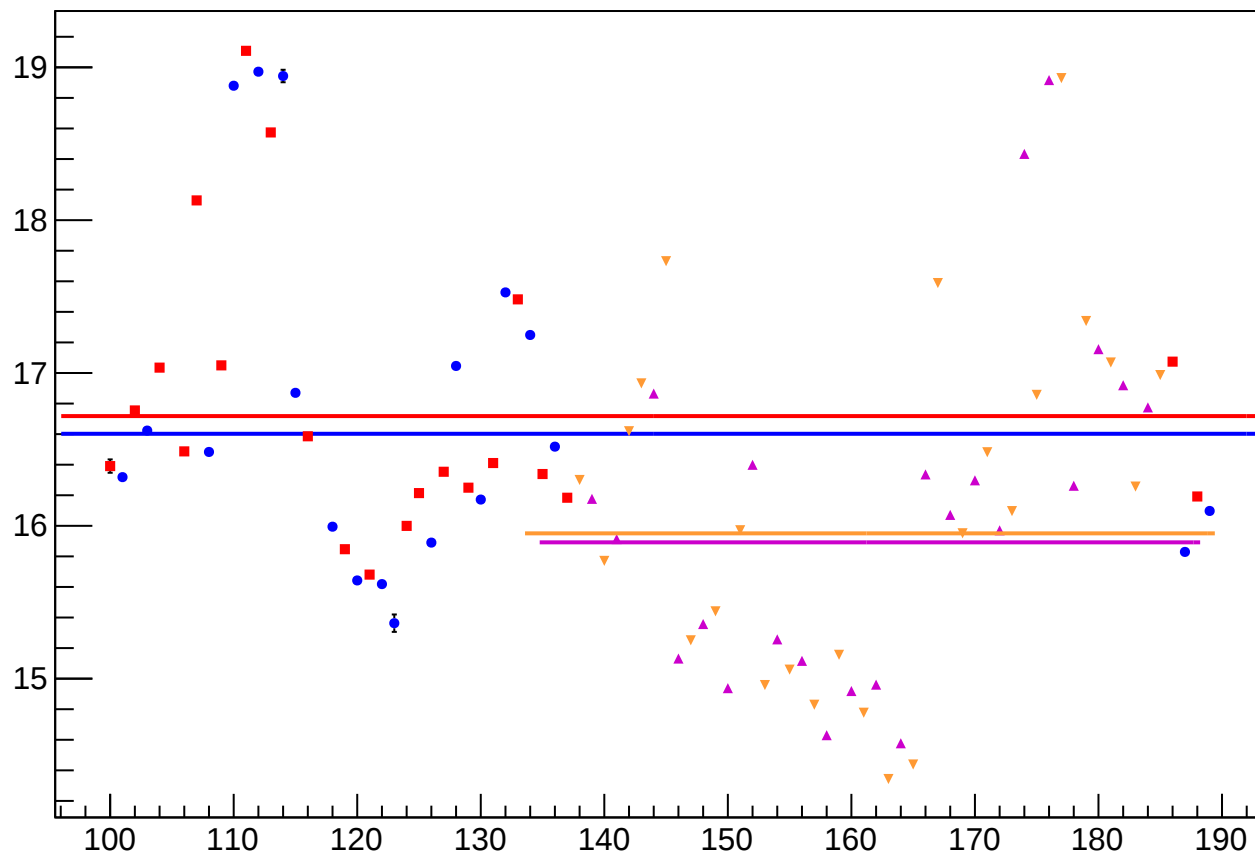
Right: 5.079 ± 4.207 $\chi^2/\text{NDF}: 26.7/39$

In: -3.610 ± 3.247 $\chi^2/\text{NDF}: 46.0/41$

Out: -1.477 ± 3.132 $\chi^2/\text{NDF}: 33.6/45$

All: -2.505 ± 2.255 $\chi^2/\text{NDF}: 79.9/87$

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: 16.718 $\pm$ 0.004 χ^2/NDF : 41608.9/20

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

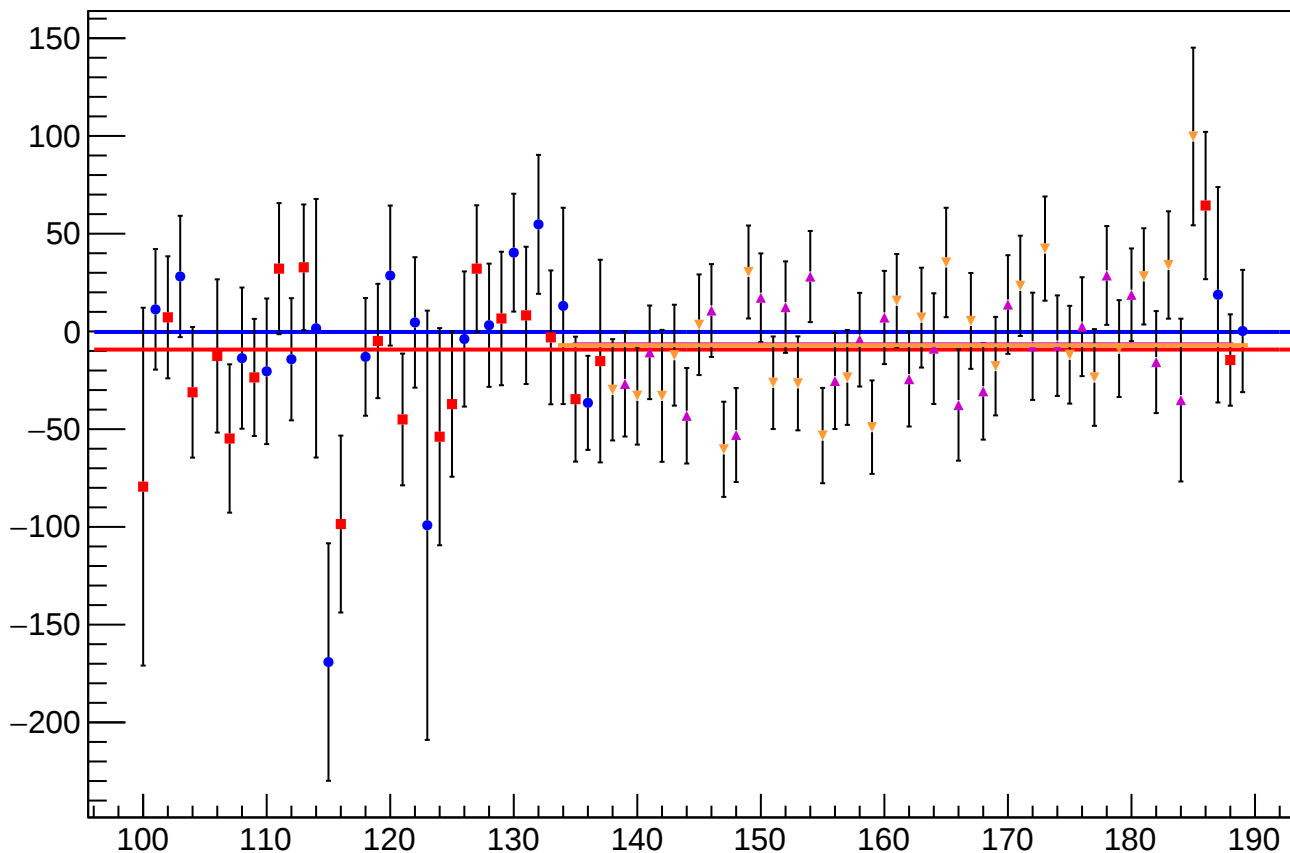
Right: 16.664 $\pm$ 0.003 χ^2/NDF : 86081.2/39

In: 16.091 $\pm$ 0.002 χ^2/NDF : 210485.3/41

Out: 16.176 $\pm$ 0.002 χ^2/NDF : 239970.2/45

All: 16.135 $\pm$ 0.002 χ^2/NDF : 451171.3/87

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: -9.283 ± 7.602 χ^2/NDF : 19.1/20

Left In: -6.611 ± 5.251 χ^2/NDF : 19.1/22

Left: -6.820 ± 3.666 χ^2/NDF : 56.6/47

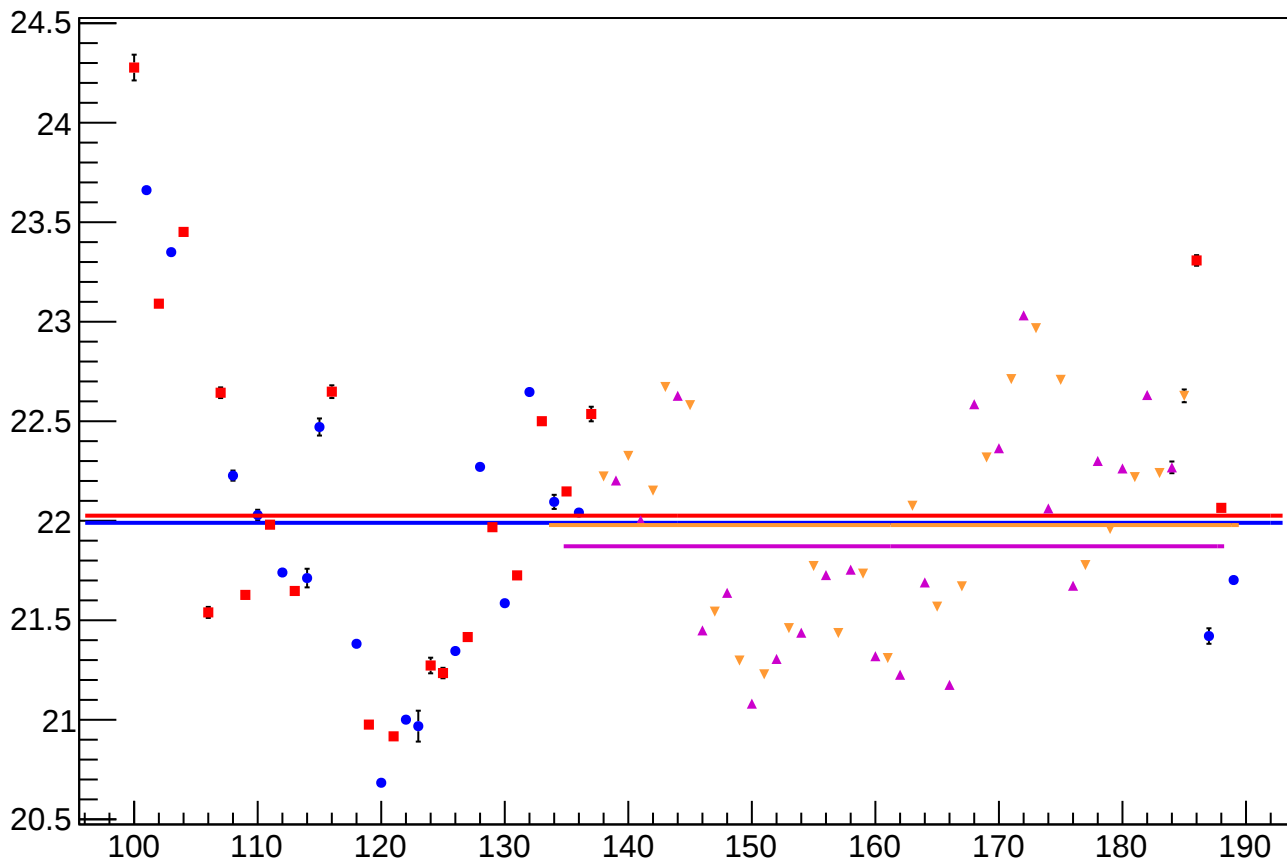
Right: -5.074 ± 5.549 χ^2/NDF : 37.4/39

In: -4.742 ± 4.409 χ^2/NDF : 37.2/41

Out: -7.725 ± 4.247 χ^2/NDF : 56.6/45

All: -6.289 ± 3.059 χ^2/NDF : 94.1/87

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: 22.026 $\pm$ 0.005 χ^2 /NDF: 18834.2/20

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

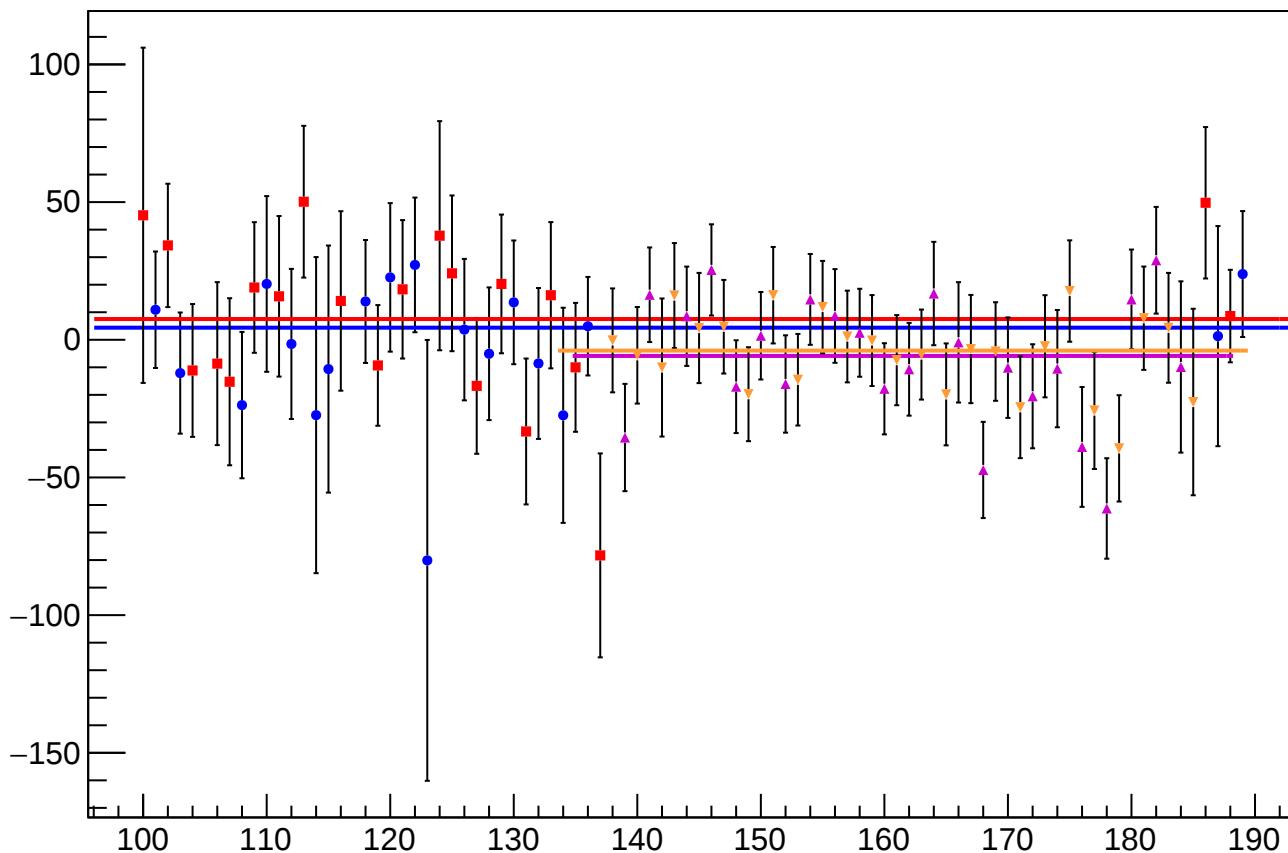
Right: 22.009 $\pm$ 0.004 χ^2 /NDF: 36651.7/39

In: 21.907 $\pm$ 0.003 χ^2 /NDF: 38618.8/41

Out: 21.993 $\pm$ 0.003 χ^2 /NDF: 38317.5/45

All: 21.951 $\pm$ 0.002 χ^2 /NDF: 77336.1/87

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: 7.537 ± 5.735 $\chi^2/\text{NDF}: 19.7/20$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

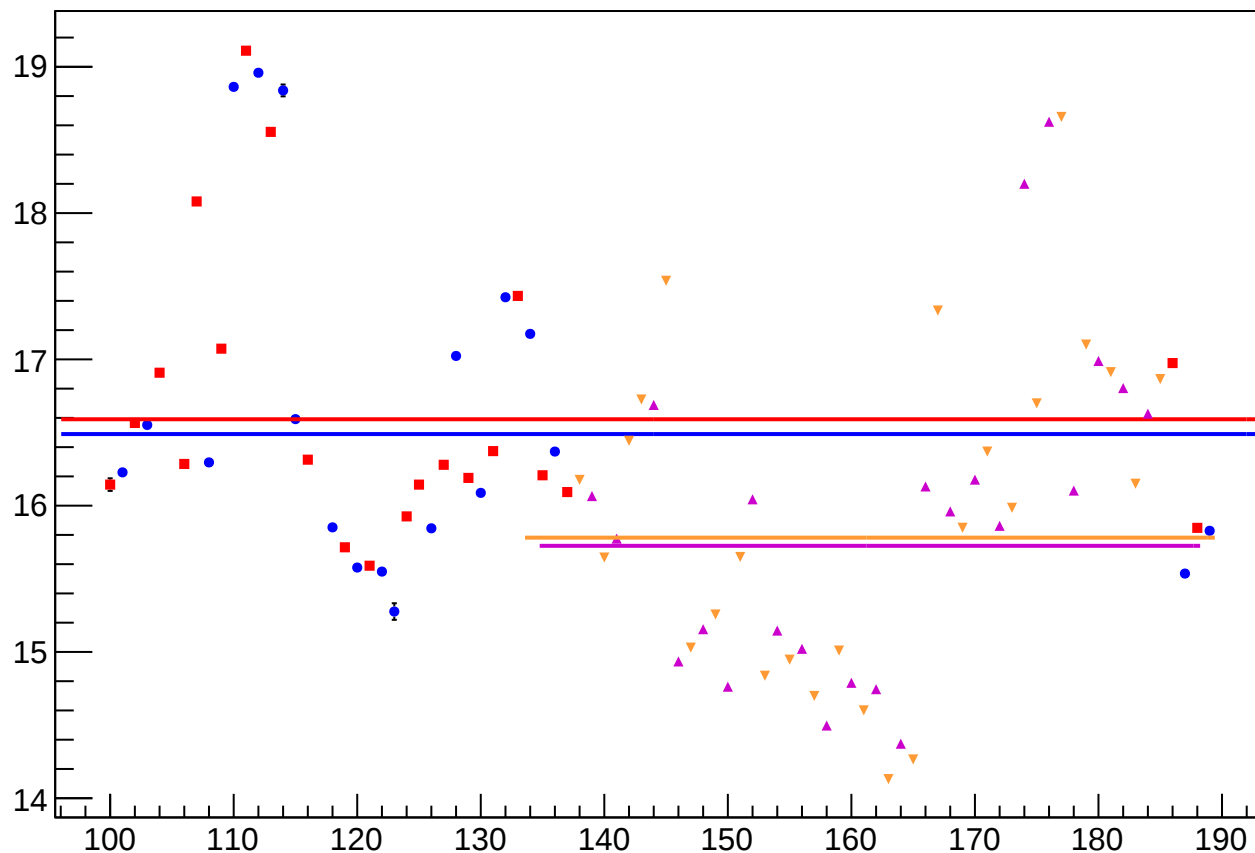
Right: 6.062 ± 4.177 $\chi^2/\text{NDF}: 26.9/39$

In: -3.004 ± 3.217 $\chi^2/\text{NDF}: 45.3/41$

Out: -0.574 ± 3.102 $\chi^2/\text{NDF}: 36.5/45$

All: -1.745 ± 2.233 $\chi^2/\text{NDF}: 82.1/87$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.489+/-0.004 χ^2/NDF : 47336.8/18

Left Out: 15.781+/-0.003 χ^2/NDF :172894.3/24

Right Out: 16.591+/-0.004 χ^2/NDF : 47105.0/20

Left In: 15.725+/-0.003 χ^2/NDF :145830.9/22

Left: 15.754+/-0.002 χ^2/NDF : 318948.8/47

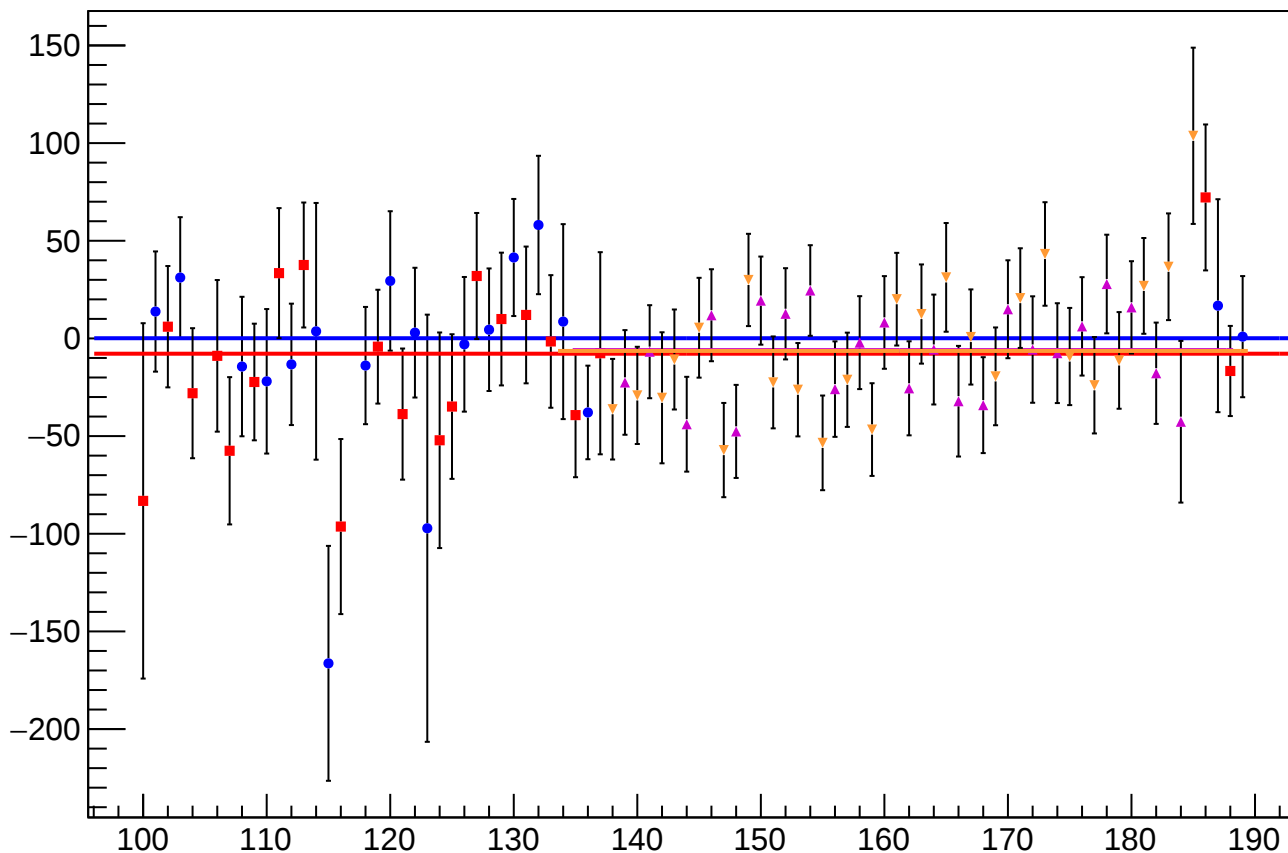
Right: 16.543+/-0.003 χ^2/NDF : 94734.4/39

In: 15.938+/-0.002 χ^2/NDF :215841.9/41

Out: 16.018+/-0.002 χ^2/NDF :248175.1/45

All: 15.980+/-0.002 χ^2/NDF : 464655.3/87

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: -7.820 ± 7.556 $\chi^2/\text{NDF}: 20.6/20$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

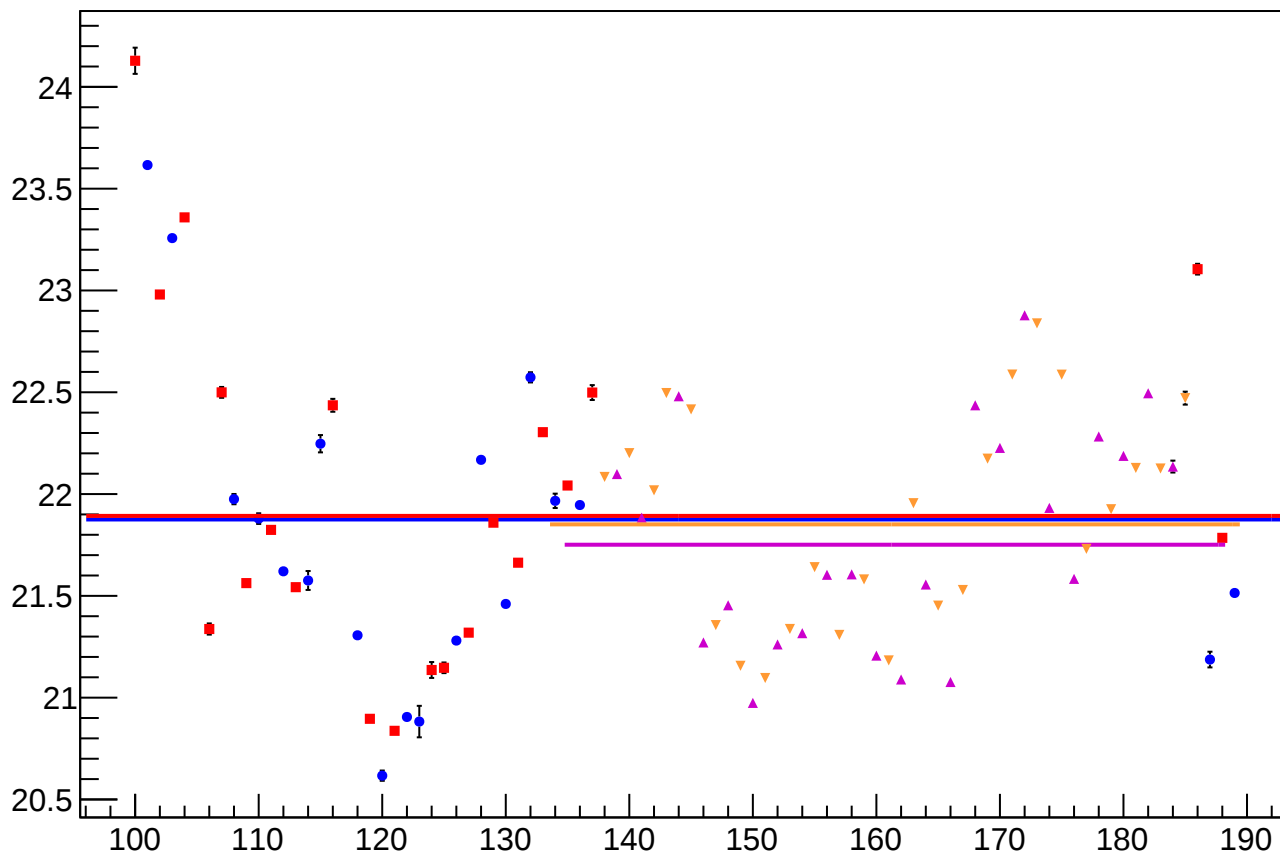
Right: -4.121 ± 5.518 $\chi^2/\text{NDF}: 39.6/39$

In: -4.184 ± 4.385 $\chi^2/\text{NDF}: 37.5/41$

Out: -6.846 ± 4.222 $\chi^2/\text{NDF}: 58.0/45$

All: -5.565 ± 3.042 $\chi^2/\text{NDF}: 95.6/87$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.875+/-0.006 χ^2/NDF : 18284.2/18

Left Out: 21.851+/-0.004 χ^2/NDF : 19631.8/24

Right Out: 21.893+/-0.005 χ^2/NDF : 18239.4/20

Left In: 21.751+/-0.004 χ^2/NDF : 20516.3/22

Left: 21.802+/-0.003 χ^2/NDF : 40523.6/47

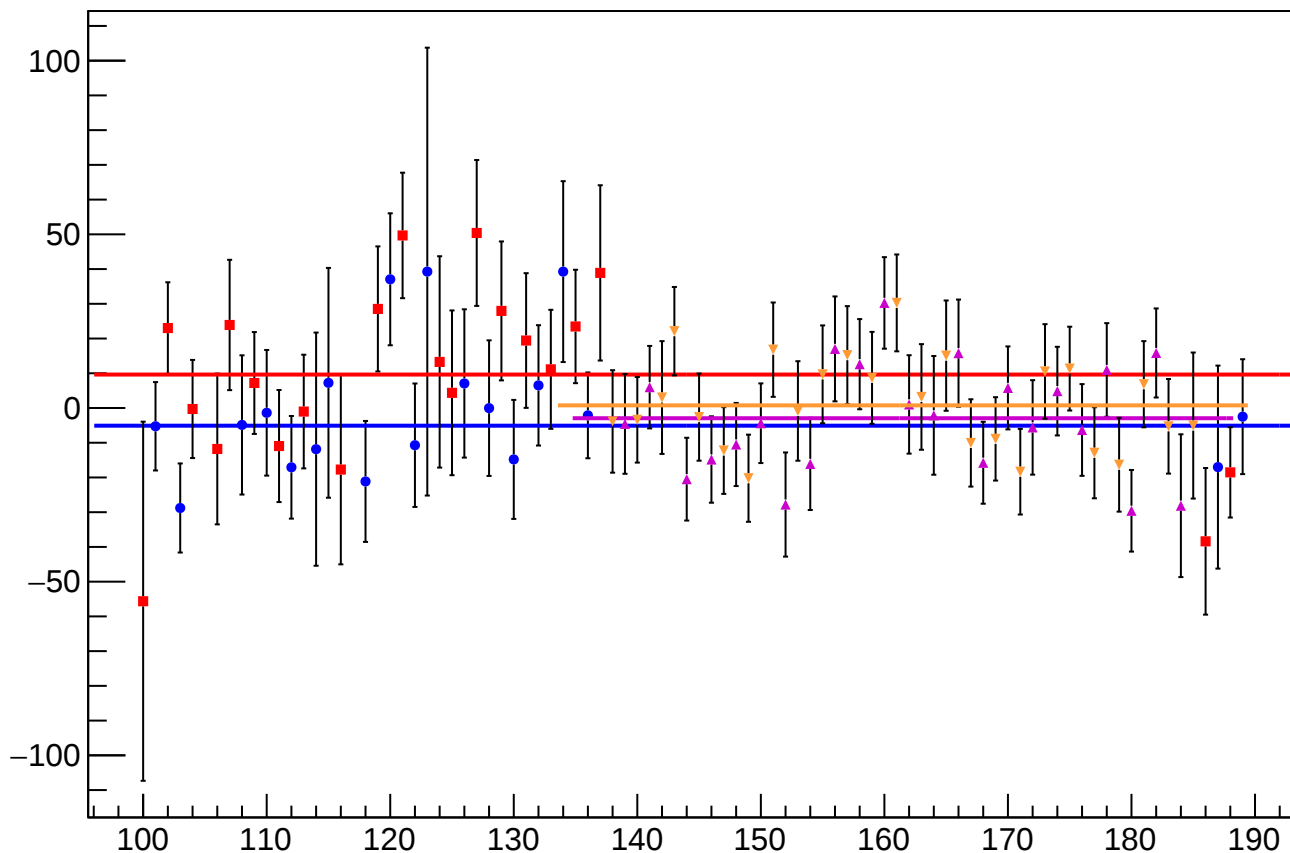
Right: 21.885+/-0.004 χ^2/NDF : 36528.7/39

In: 21.788+/-0.003 χ^2/NDF : 39133.0/41

Out: 21.864+/-0.003 χ^2/NDF : 37913.0/45

All: 21.827+/-0.002 χ^2/NDF : 77360.8/87

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.094 ± 4.150 χ^2/NDF : 15.0/18

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 9.628 ± 3.984 χ^2/NDF : 30.6/20

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

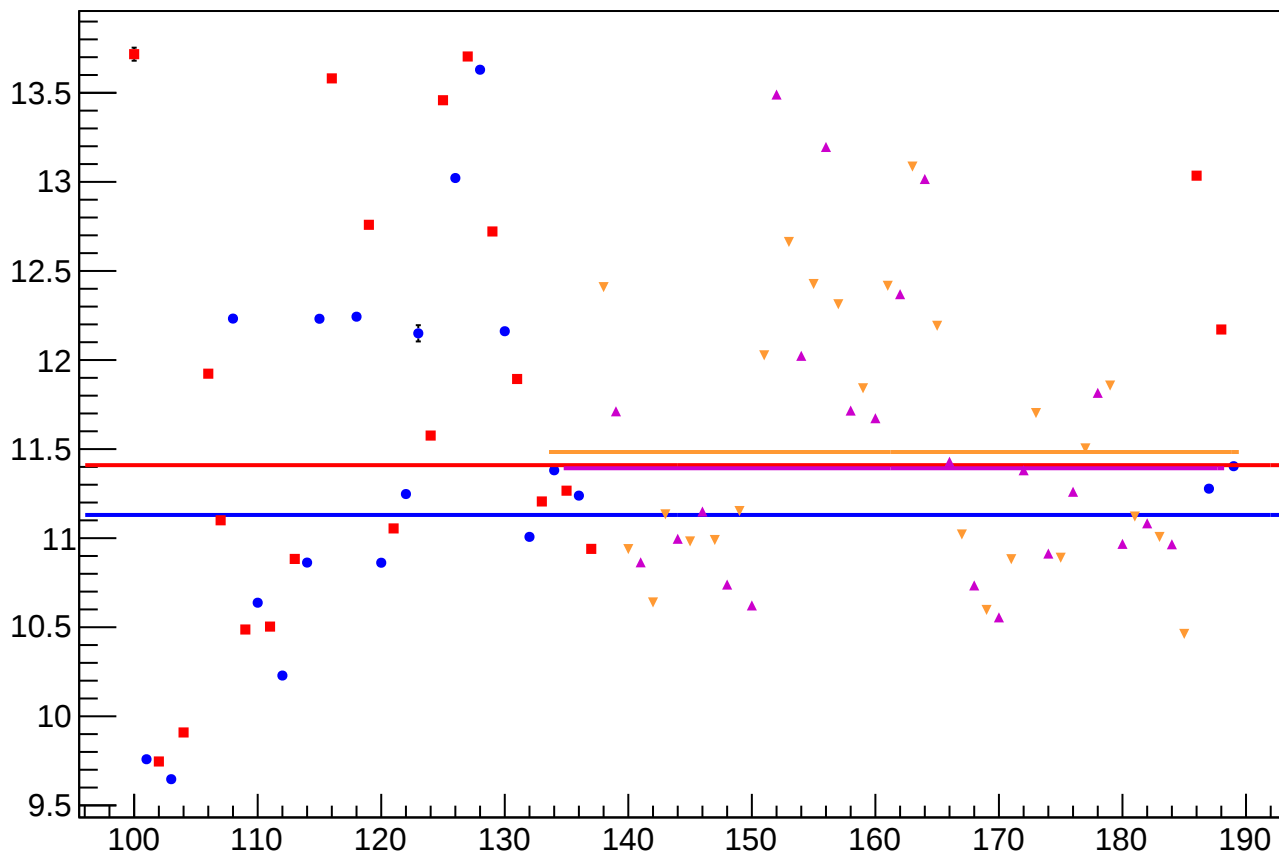
Right: 2.567 ± 2.874 χ^2/NDF : 52.1/39

In: -3.603 ± 2.297 χ^2/NDF : 46.1/41

Out: 3.548 ± 2.234 χ^2/NDF : 57.8/45

All: 0.071 ± 1.601 χ^2/NDF : 108.9/87

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.130+/-0.003 χ^2/NDF : 133245.0/18

Left Out: 11.484+/-0.002 χ^2/NDF : 129805.4/24

Right Out: 11.410+/-0.003 χ^2/NDF : 169587.6/20

Left In: 11.392+/-0.002 χ^2/NDF : 150493.3/22

Left: 11.439+/-0.001 χ^2/NDF : 281419.2/47

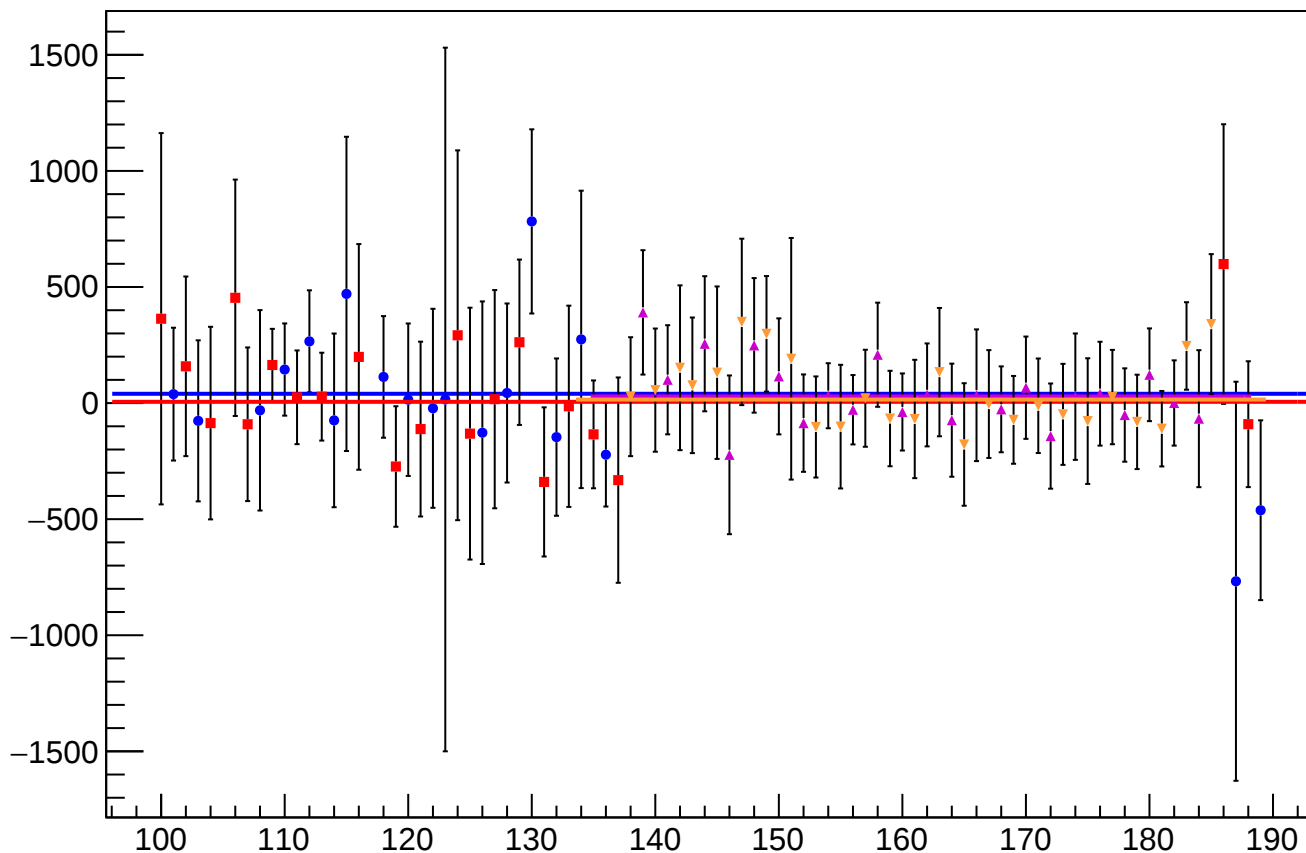
Right: 11.276+/-0.002 χ^2/NDF : 307554.1/39

In: 11.312+/-0.002 χ^2/NDF : 289271.3/41

Out: 11.460+/-0.002 χ^2/NDF : 299864.3/45

All: 11.388+/-0.001 χ^2/NDF : 593423.7/87

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 40.097 $\pm$ 77.511 χ^2 /NDF: 10.0/18

Left Out: 15.130 $\pm$ 47.705 χ^2 /NDF:8.0/24

Right Out: 5.477 $\pm$ 67.525 χ^2 /NDF: 7.6/20

Left In: 28.500 $\pm$ 44.797 χ^2 /NDF:6.4/22

Left: 22.235 $\pm$ 32.656 χ^2 /NDF: 14.4/47

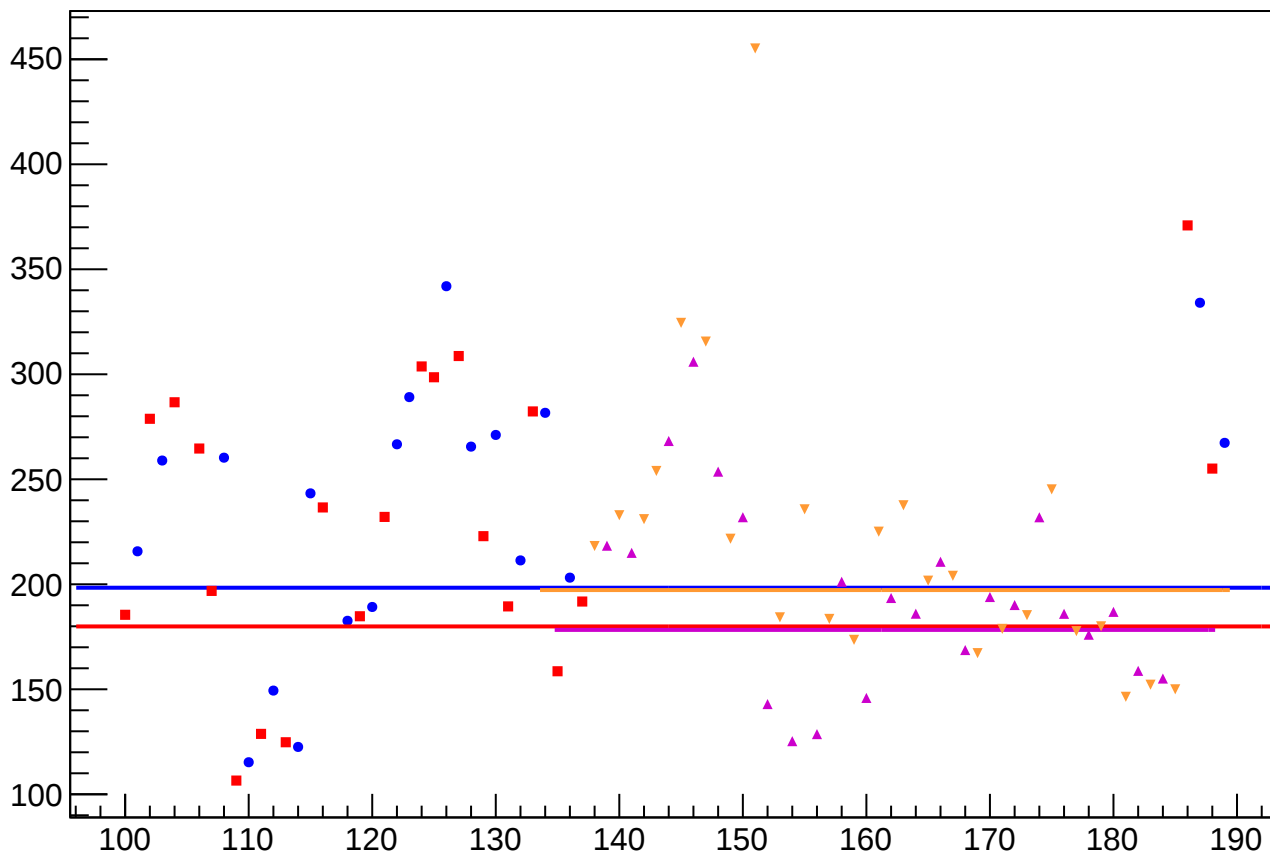
Right: 20.414 $\pm$ 50.914 χ^2 /NDF: 17.8/39

In: 31.404 $\pm$ 38.785 χ^2 /NDF:16.5/41

Out: 11.916 $\pm$ 38.962 χ^2 /NDF:15.7/45

All: 21.704 $\pm$ 27.488 χ^2 /NDF: 32.2/87

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: 179.928 $\pm$ 0.048 χ^2 /NDF: 1942711.3/20

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

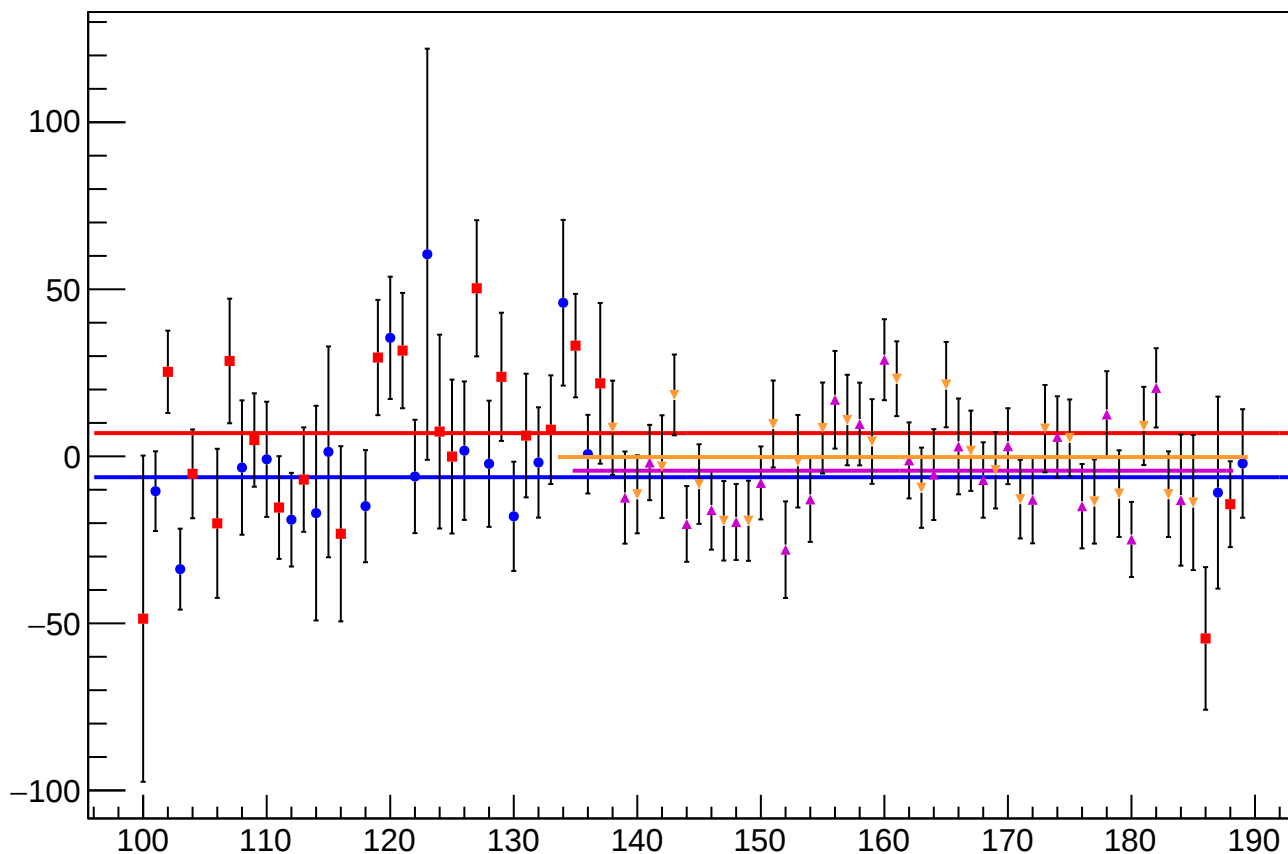
Right: 187.882 $\pm$ 0.036 χ^2 /NDF: 3131811.5/39

In: 183.306 $\pm$ 0.027 χ^2 /NDF:2854370.1/41

Out: 191.482 $\pm$ 0.028 χ^2 /NDF:3817306.5/45

All: 187.375 $\pm$ 0.019 χ^2 /NDF: 6715916.9/87

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: 6.949 ± 3.829 χ^2/NDF : 34.8/20

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

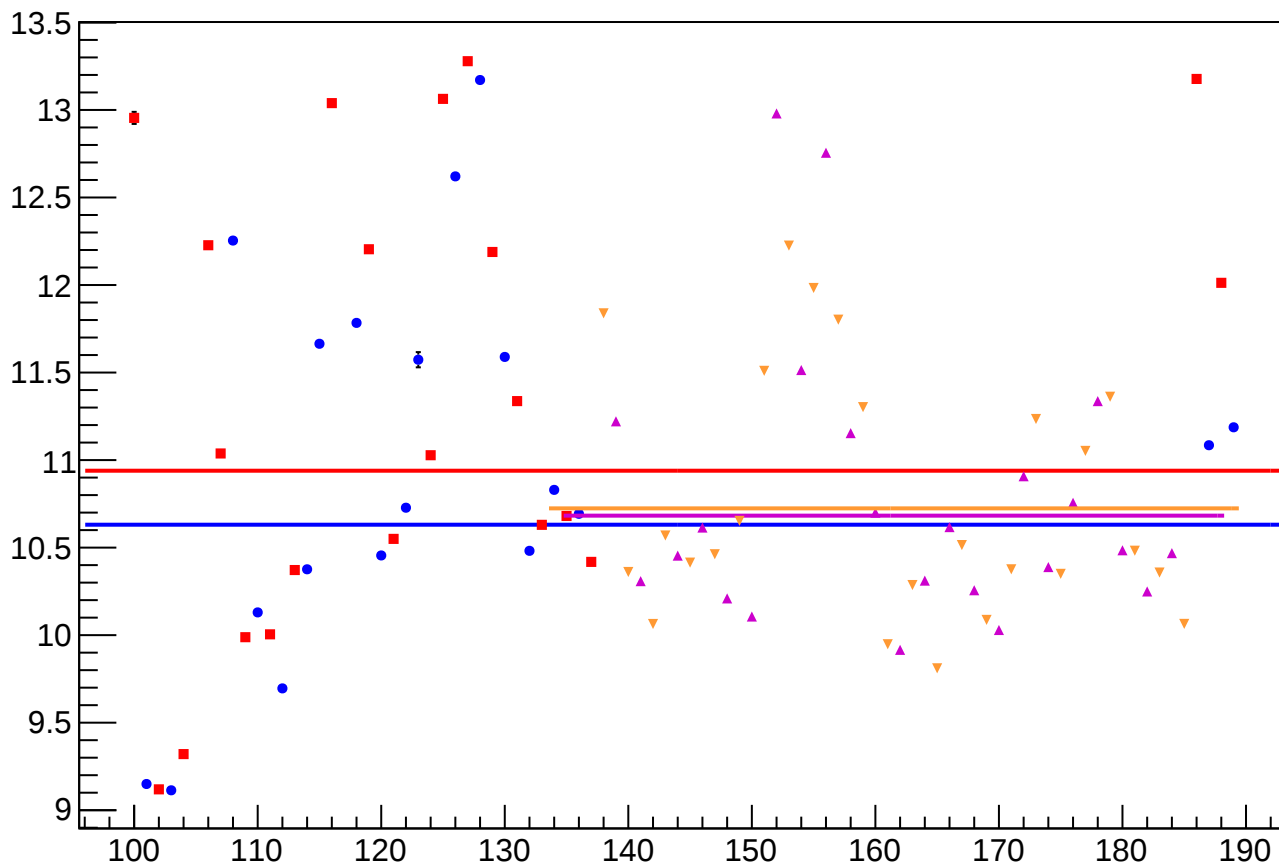
Right: 0.591 ± 2.757 χ^2/NDF : 59.2/39

In: -4.879 ± 2.169 χ^2/NDF : 50.4/41

Out: 1.957 ± 2.107 χ^2/NDF : 61.8/45

All: -1.362 ± 1.511 χ^2/NDF : 117.3/87

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.631 $\pm$ 0.003 χ^2/NDF : 162902.9/18

Left Out: 10.724 $\pm$ 0.002 χ^2/NDF : 132558.9/24

Right Out: 10.939 $\pm$ 0.003 χ^2/NDF : 218205.2/20

Left In: 10.683 $\pm$ 0.002 χ^2/NDF : 147835.6/22

Left: 10.704 $\pm$ 0.001 χ^2/NDF : 280658.8/47

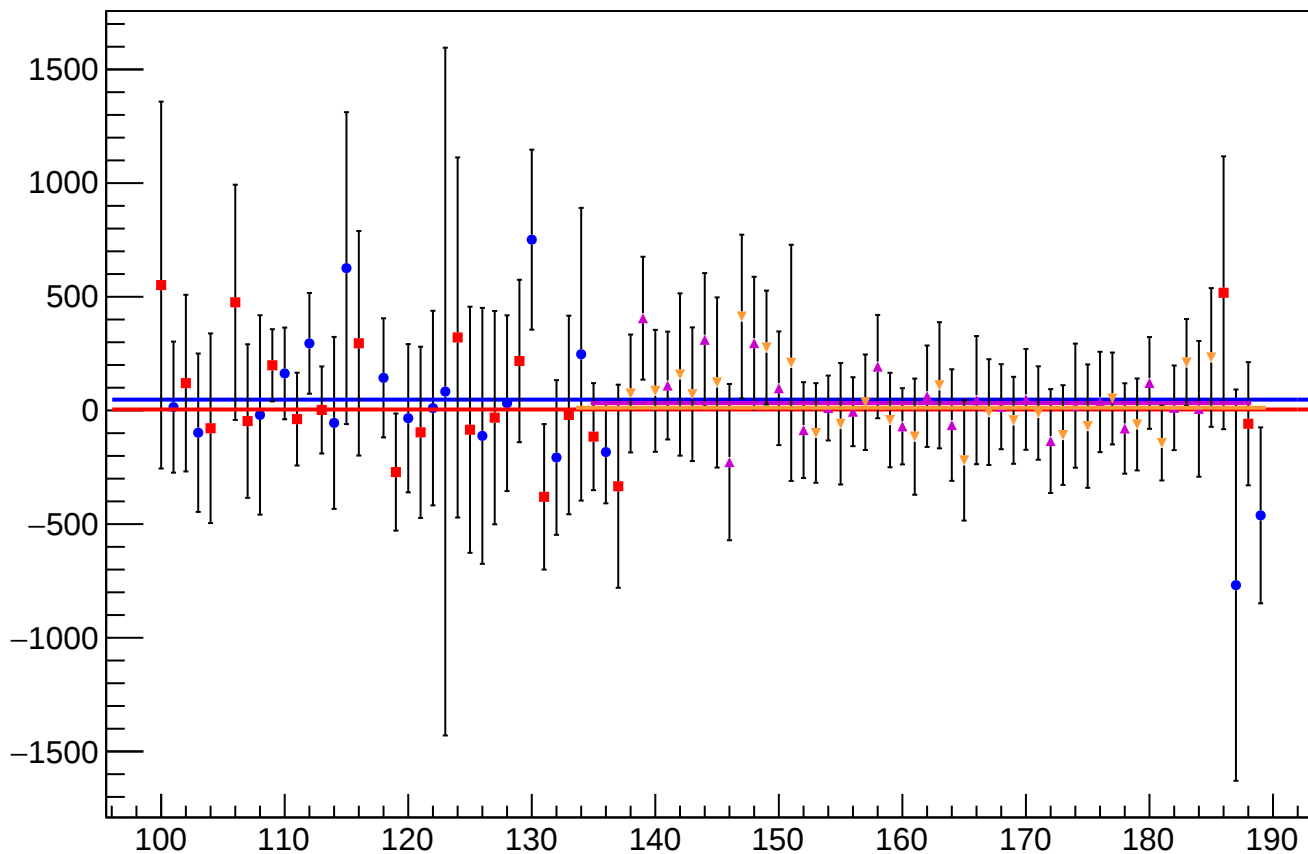
Right: 10.791 $\pm$ 0.002 χ^2/NDF : 387358.4/39

In: 10.667 $\pm$ 0.002 χ^2/NDF : 310976.8/41

Out: 10.789 $\pm$ 0.001 χ^2/NDF : 355163.6/45

All: 10.730 $\pm$ 0.001 χ^2/NDF : 669402.8/87

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: 4.222 $\pm$ 68.118 χ^2 /NDF: 8.2/20

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

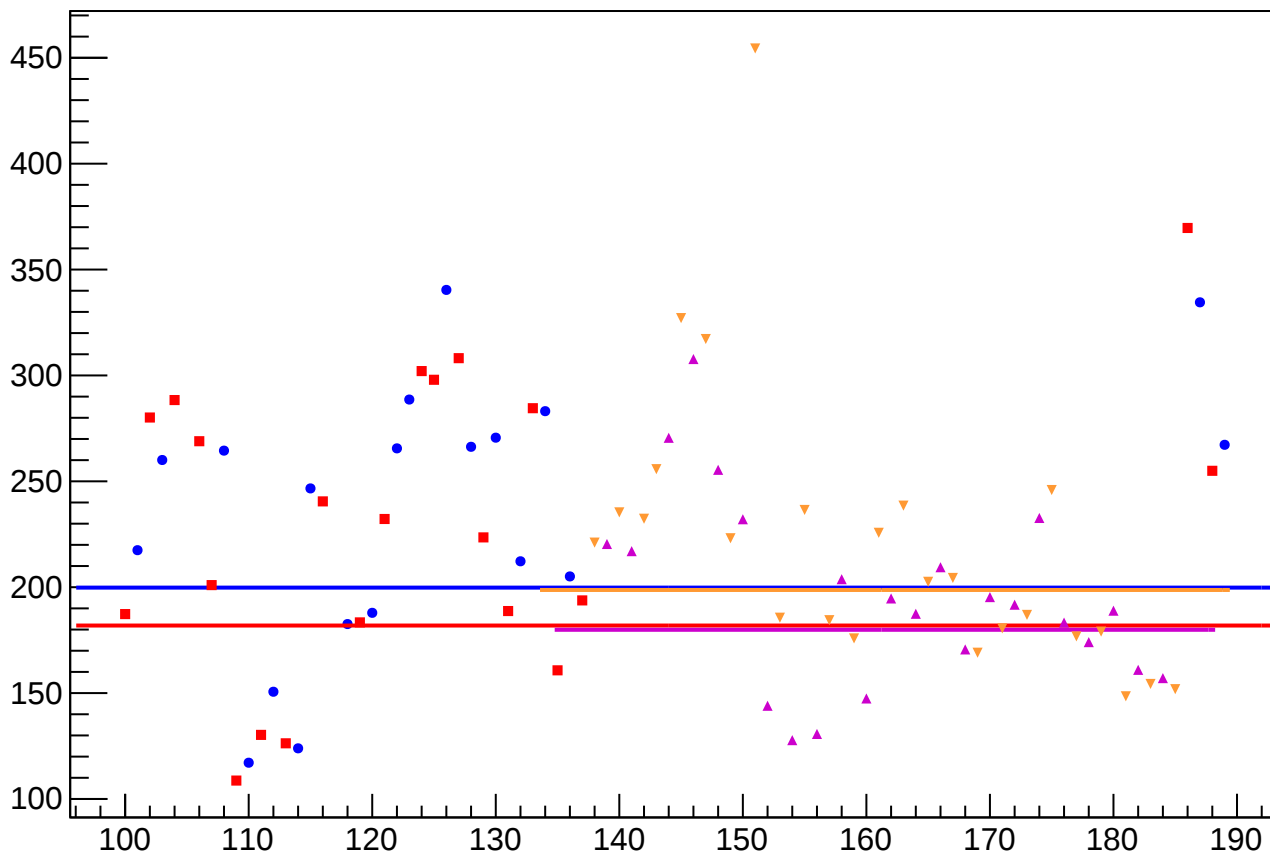
Right: 23.000 $\pm$ 51.305 χ^2 /NDF: 18.7/39

In: 36.229 $\pm$ 39.078 χ^2 /NDF: 17.3/41

Out: 9.345 $\pm$ 39.249 χ^2 /NDF: 15.8/45

All: 22.846 $\pm$ 27.693 χ^2 /NDF: 33.3/87

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: 181.902 $\pm$ 0.048 χ^2 /NDF: 1887990.6/20

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

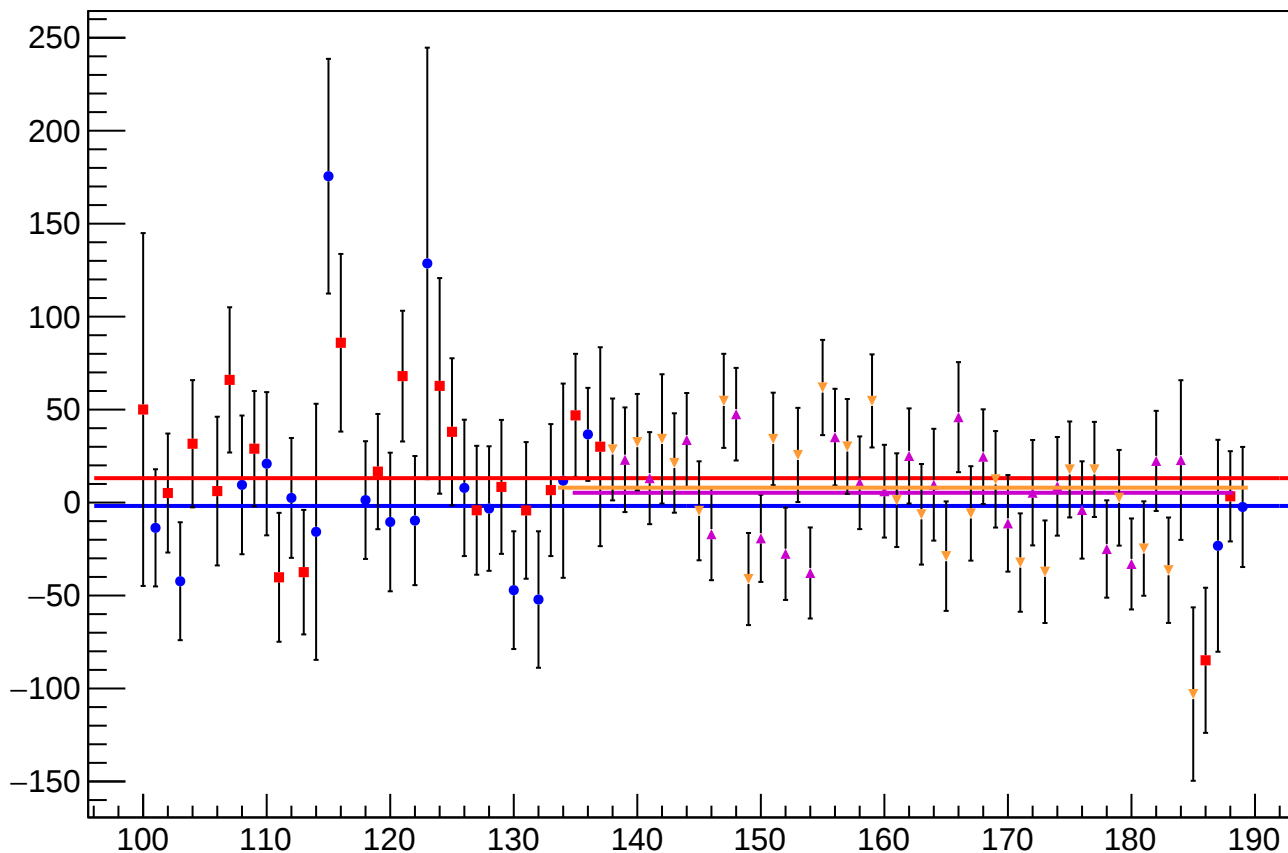
Right: 189.651 $\pm$ 0.036 χ^2 /NDF: 3043568.5/39

In: 184.888 $\pm$ 0.028 χ^2 /NDF:2774143.0/41

Out: 193.120 $\pm$ 0.028 χ^2 /NDF:3728501.4/45

All: 188.986 $\pm$ 0.020 χ^2 /NDF: 6546825.0/87

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: 13.127 ± 7.914 χ^2/NDF : 21.3/20

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

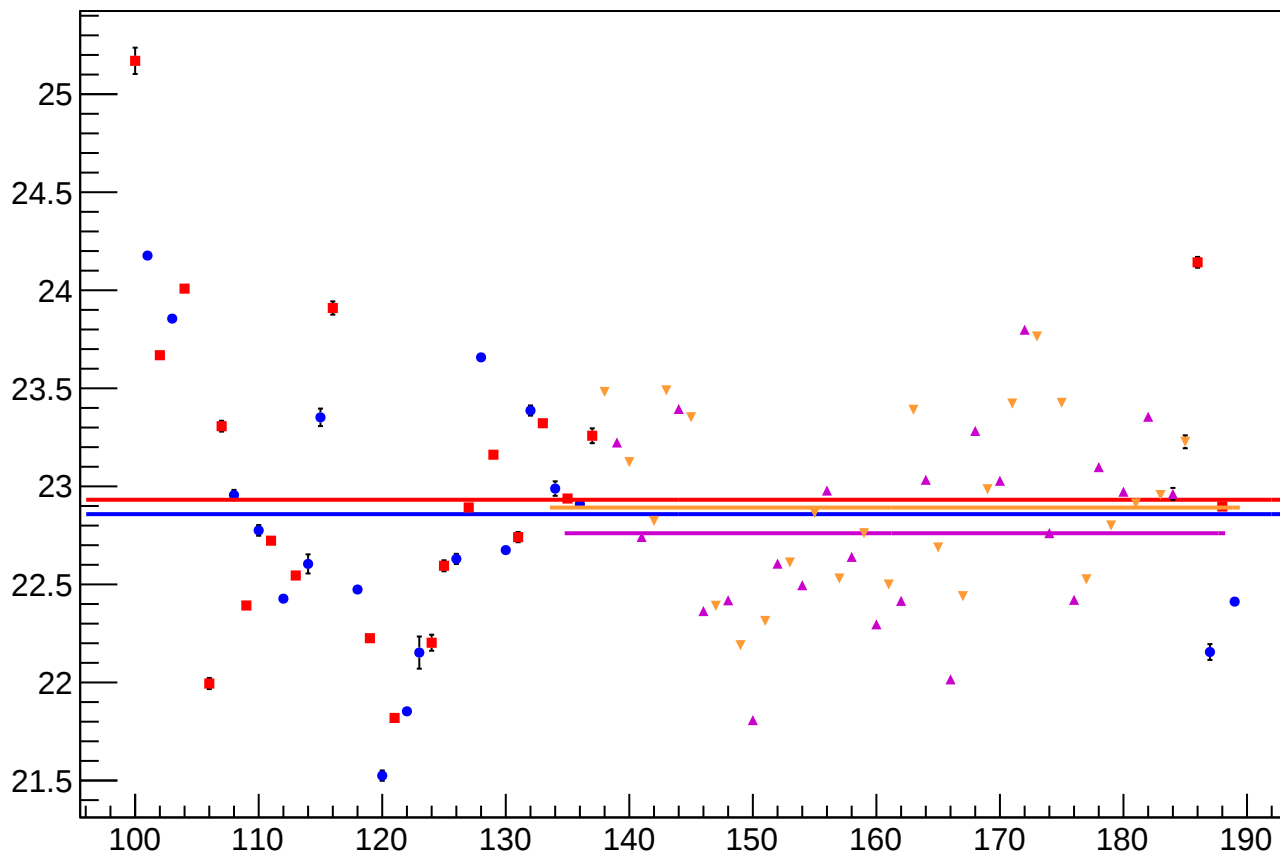
Right: 6.132 ± 5.773 χ^2/NDF : 41.1/39

In: 3.169 ± 4.587 χ^2/NDF : 39.4/41

Out: 9.604 ± 4.423 χ^2/NDF : 59.0/45

All: 6.503 ± 3.184 χ^2/NDF : 99.4/87

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.858+/-0.006 χ^2/NDF : 13020.9/18

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.932+/-0.006 χ^2/NDF : 13103.0/20

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

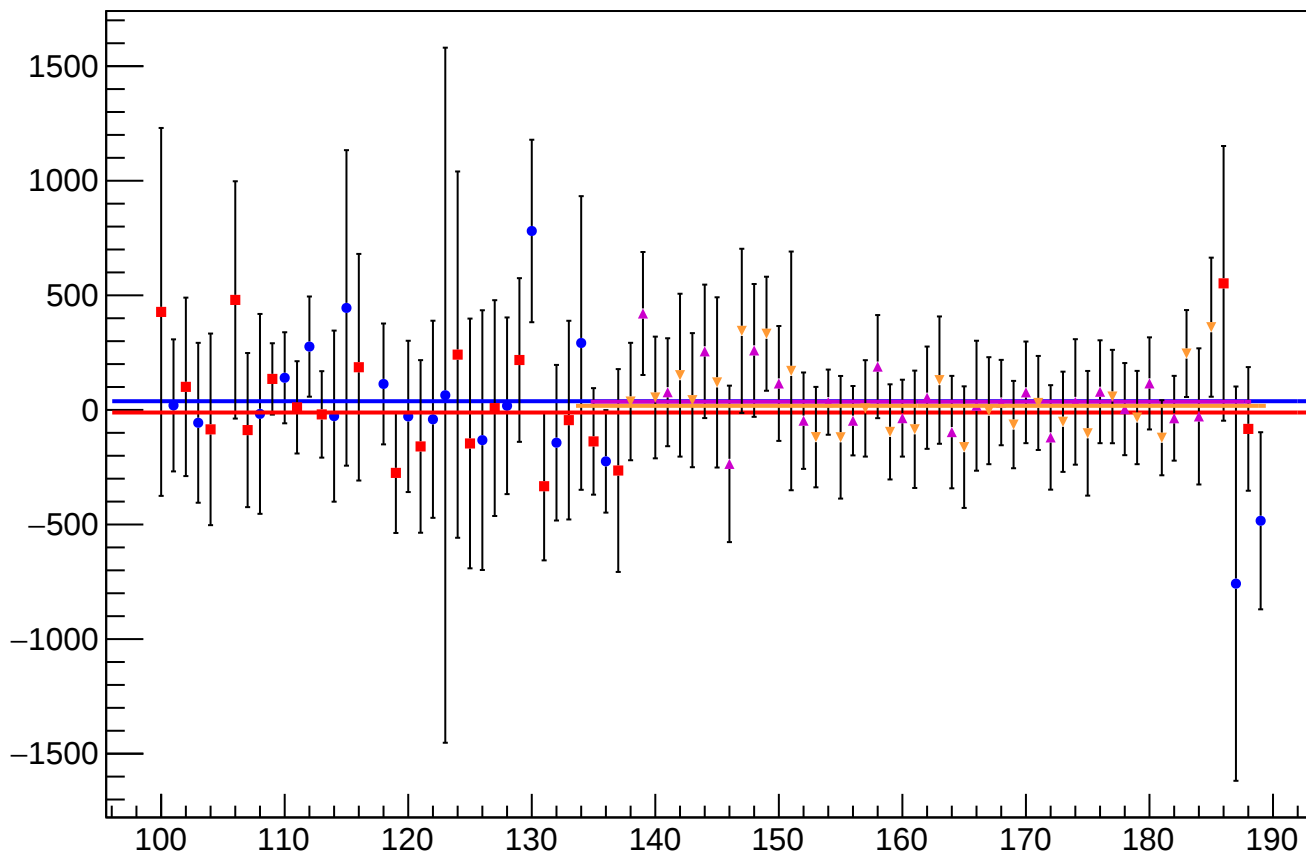
Right: 22.897+/-0.004 χ^2/NDF : 26204.5/39

In: 22.790+/-0.003 χ^2/NDF :27758.4/41

Out: 22.904+/-0.003 χ^2/NDF :26133.4/45

All: 22.849+/-0.002 χ^2/NDF : 54539.2/87

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 37.990+/-77.668 χ^2/NDF : 10.2/18

Left Out: 17.777+/-47.941 χ^2/NDF : 8.5/24

Right Out: -11.351+/-67.654 χ^2/NDF : 6.7/20

Left In: 35.879+/-45.087 χ^2/NDF : 6.3/22

Left: 27.383+/-32.844 χ^2/NDF : 14.9/47

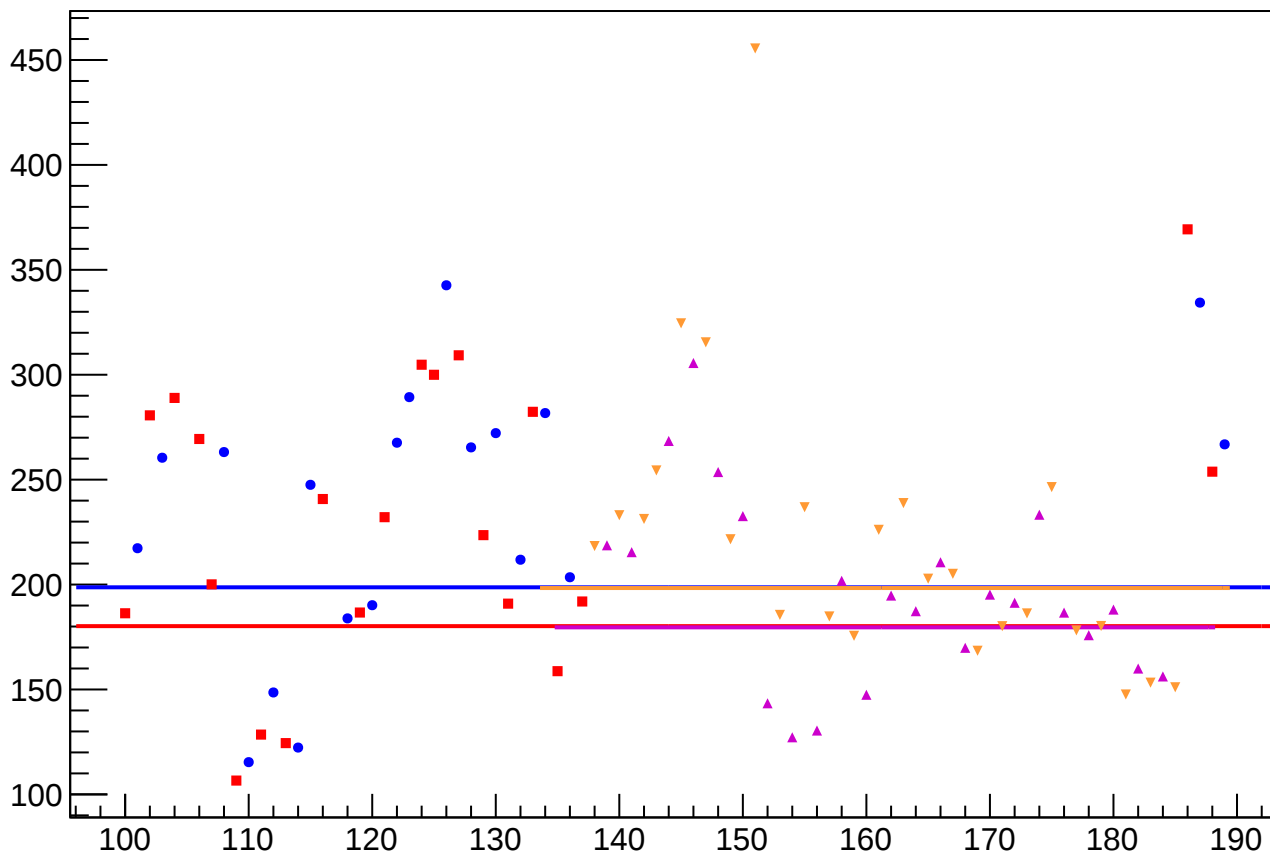
Right: 9.935+/-51.014 χ^2/NDF : 17.1/39

In: 36.411+/-38.993 χ^2/NDF : 16.5/41

Out: 8.040+/-39.116 χ^2/NDF : 15.4/45

All: 22.270+/-27.616 χ^2/NDF : 32.1/87

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: 180.186 $\pm$ 0.048 χ^2 /NDF: 1962702.9/20

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

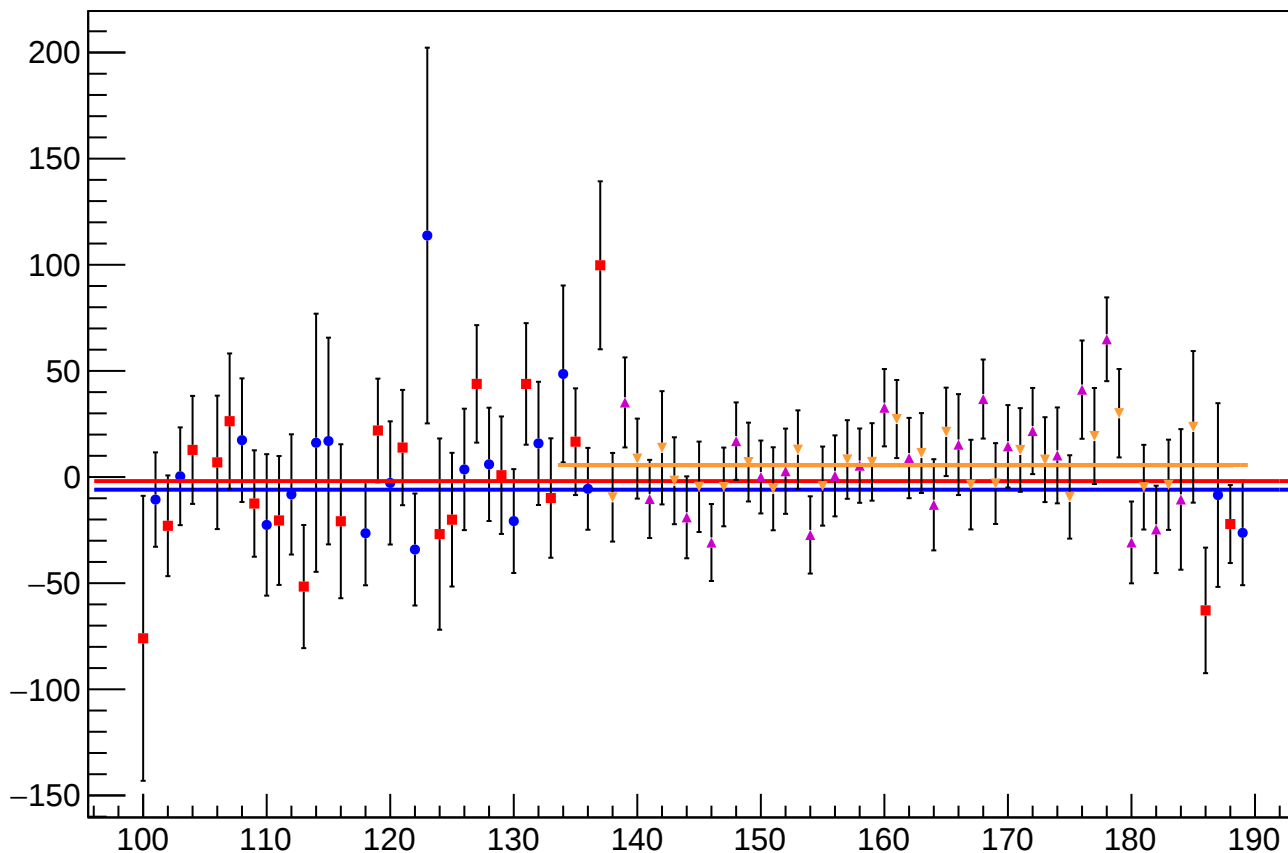
Right: 188.168 $\pm$ 0.036 χ^2 /NDF: 3165332.7/39

In: 184.415 $\pm$ 0.028 χ^2 /NDF: 2804147.6/41

Out: 192.274 $\pm$ 0.028 χ^2 /NDF: 3816059.6/45

All: 188.332 $\pm$ 0.020 χ^2 /NDF: 6660698.7/87

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: -1.913 $\pm$ 6.188 χ^2 /NDF: 26.9/20

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

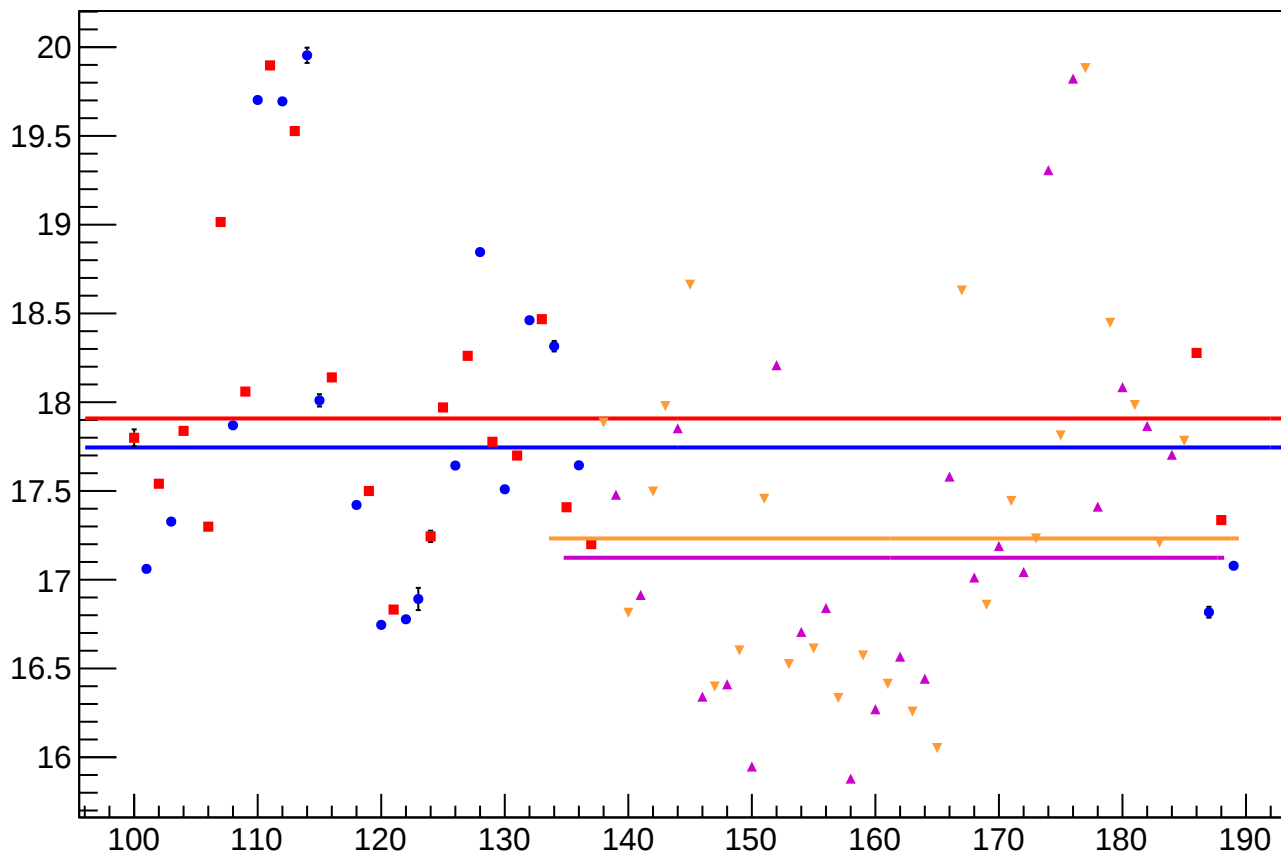
Right: -3.820 $\pm$ 4.500 χ^2 /NDF: 35.8/39

In: 2.322 $\pm$ 3.489 χ^2 /NDF: 47.3/41

Out: 3.424 $\pm$ 3.373 χ^2 /NDF: 35.7/45

All: 2.892 $\pm$ 2.425 χ^2 /NDF: 83.0/87

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: 17.908 $\pm$ 0.004 χ^2 /NDF: 27717.4/20

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

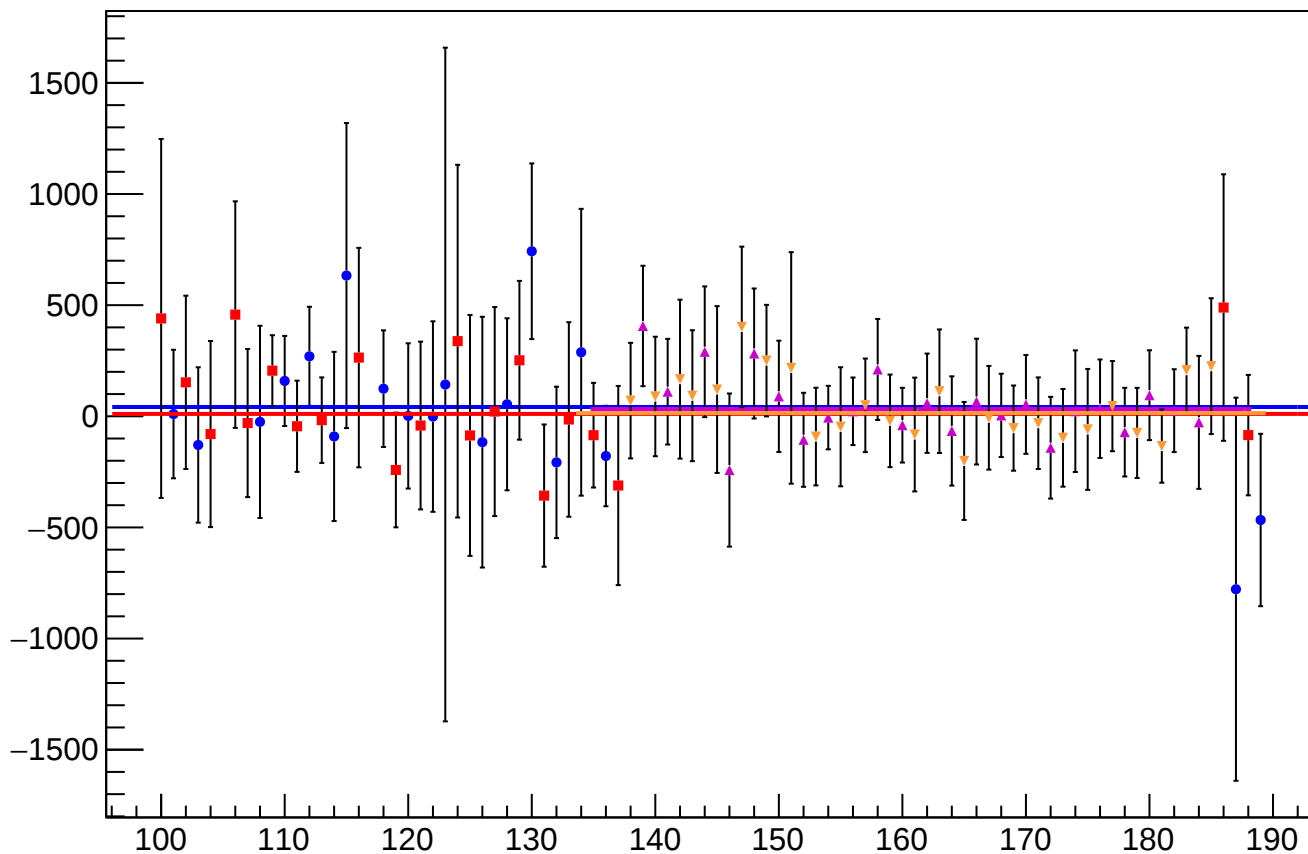
Right: 17.831 $\pm$ 0.003 χ^2 /NDF: 63276.6/39

In: 17.300 $\pm$ 0.002 χ^2 /NDF:148525.4/41

Out: 17.433 $\pm$ 0.002 χ^2 /NDF:143190.1/45

All: 17.369 $\pm$ 0.002 χ^2 /NDF: 293230.9/87

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: 10.717 $\pm$ 68.256 χ^2 /NDF: 7.5/20

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

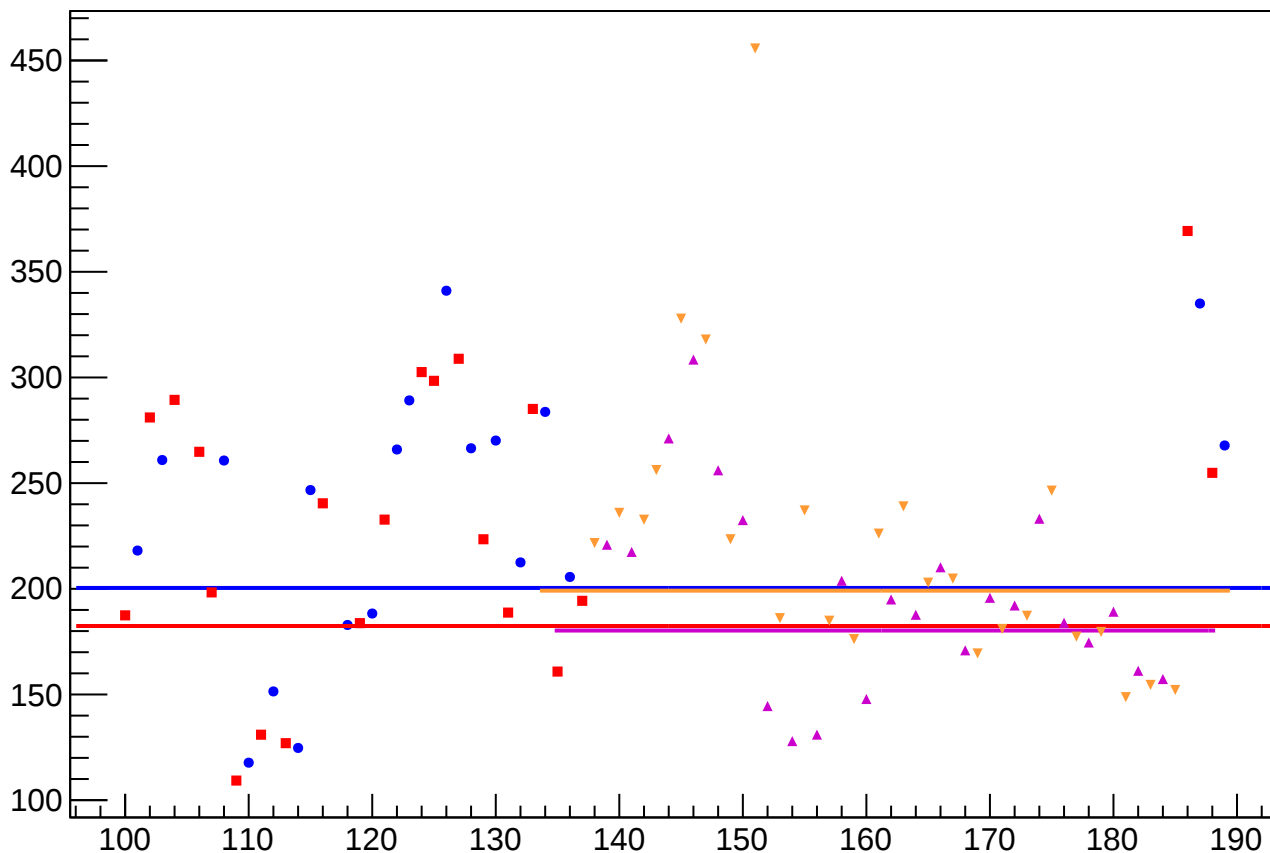
Right: 24.156 $\pm$ 51.419 χ^2 /NDF: 17.7/39

In: 34.884 $\pm$ 39.162 χ^2 /NDF:16.8/41

Out: 13.152 $\pm$ 39.334 χ^2 /NDF:14.4/45

All: 24.065 $\pm$ 27.752 χ^2 /NDF: 31.4/87

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: 182.405 $\pm$ 0.048 χ^2 /NDF: 1866466.6/20

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

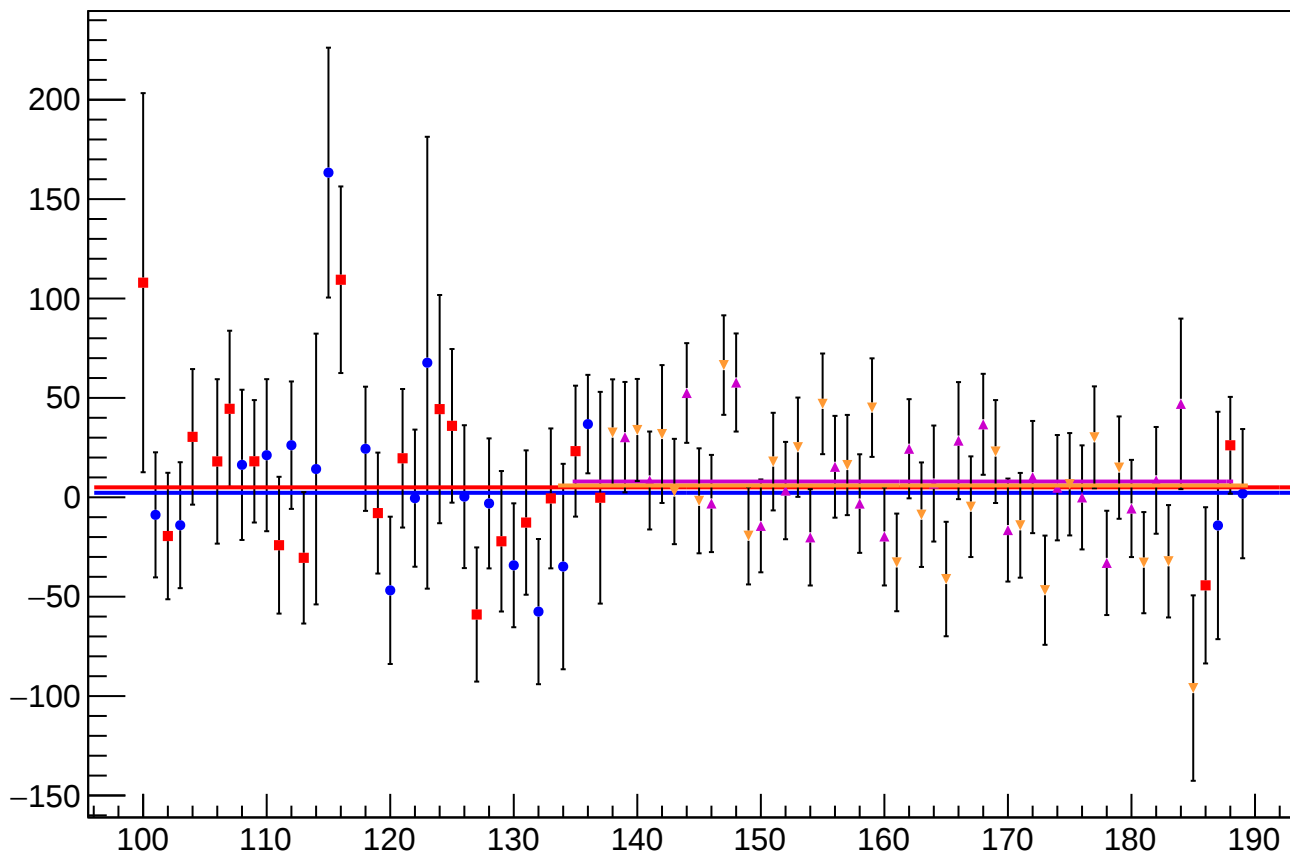
Right: 190.194 $\pm$ 0.036 χ^2 /NDF: 3006934.6/39

In: 185.314 $\pm$ 0.028 χ^2 /NDF:2760389.5/41

Out: 193.579 $\pm$ 0.028 χ^2 /NDF:3707028.0/45

All: 189.428 $\pm$ 0.020 χ^2 /NDF: 6511770.9/87

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.259+/-8.377 χ^2/NDF : 17.1/18

Left Out: 5.937+/-5.285 χ^2/NDF :36.1/24

Right Out: 5.008+/-7.859 χ^2/NDF : 19.0/20

Left In: 7.915+/-5.422 χ^2/NDF :18.7/22

Left: 6.901+/-3.784 χ^2/NDF : 54.9/47

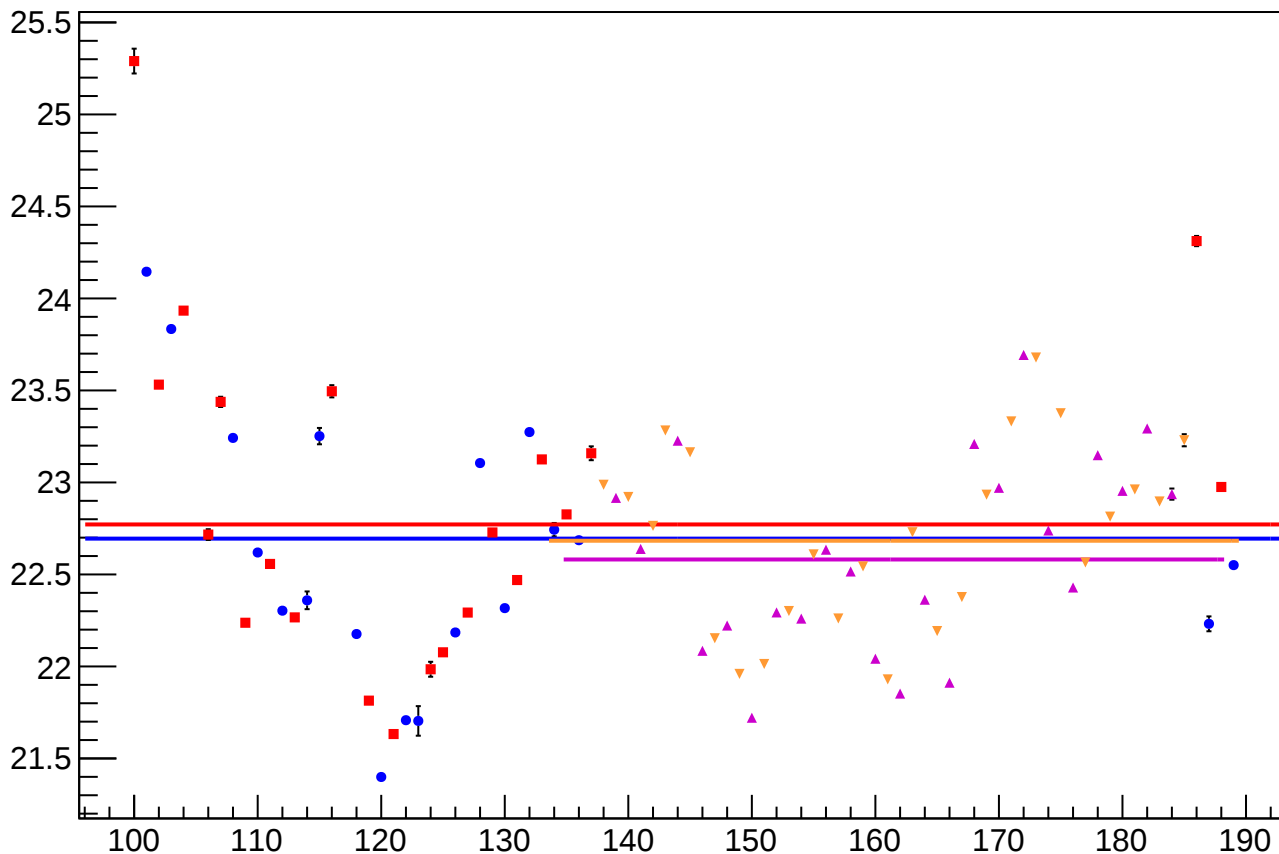
Right: 3.721+/-5.732 χ^2/NDF : 36.2/39

In: 6.246+/-4.552 χ^2/NDF :36.2/41

Out: 5.648+/-4.386 χ^2/NDF :55.1/45

All: 5.936+/-3.158 χ^2/NDF : 91.3/87

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.695+/-0.006 χ^2/NDF : 14240.4/18

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.772+/-0.006 χ^2/NDF : 16267.5/20

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

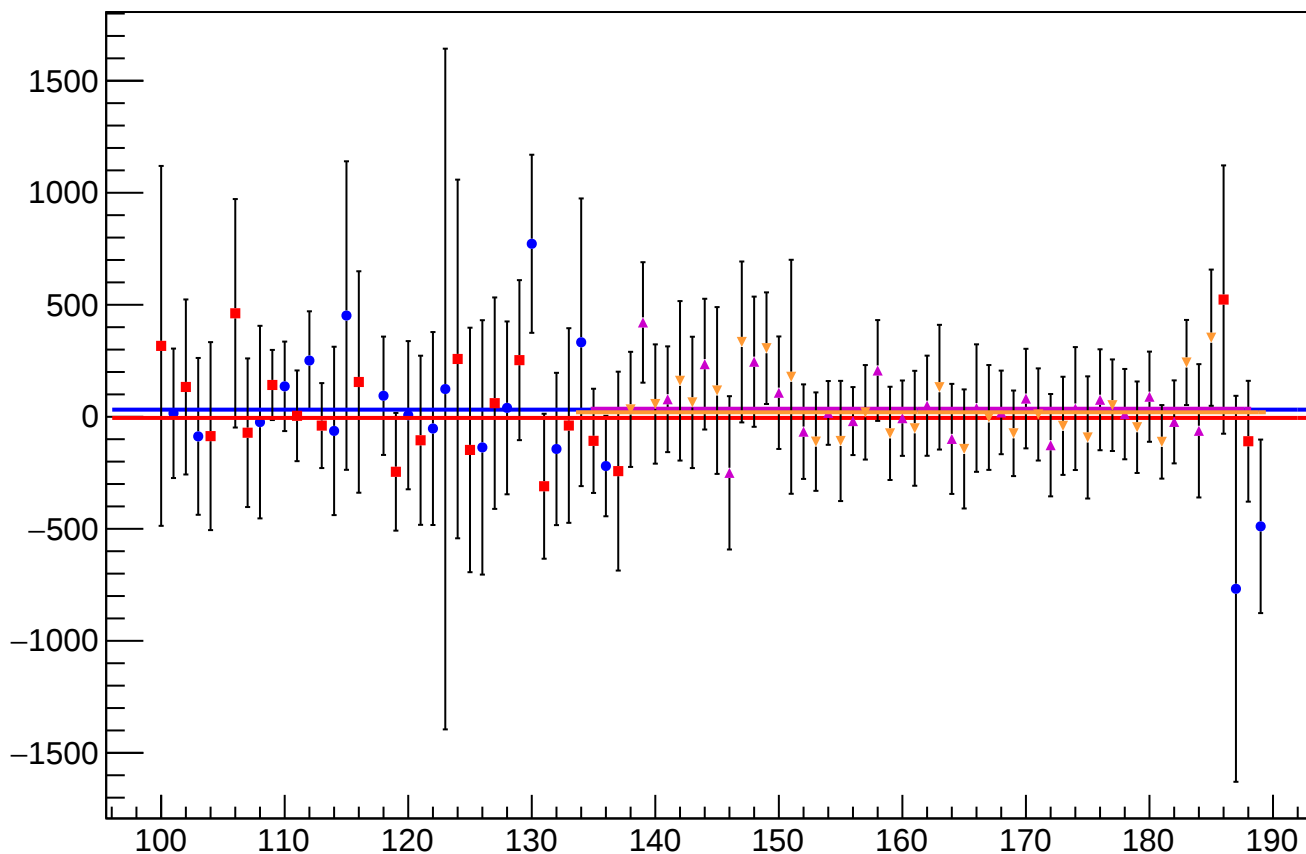
Right: 22.736+/-0.004 χ^2/NDF : 30597.9/39

In: 22.615+/-0.003 χ^2/NDF : 32402.9/41

Out: 22.711+/-0.003 χ^2/NDF : 32762.4/45

All: 22.665+/-0.002 χ^2/NDF : 65626.6/87

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: -5.021+/-67.796 χ^2/NDF : 6.2/20

Left In: 35.996+/-45.180 χ^2/NDF : 6.1/22

Left: 28.633+/-32.915 χ^2/NDF : 13.8/47

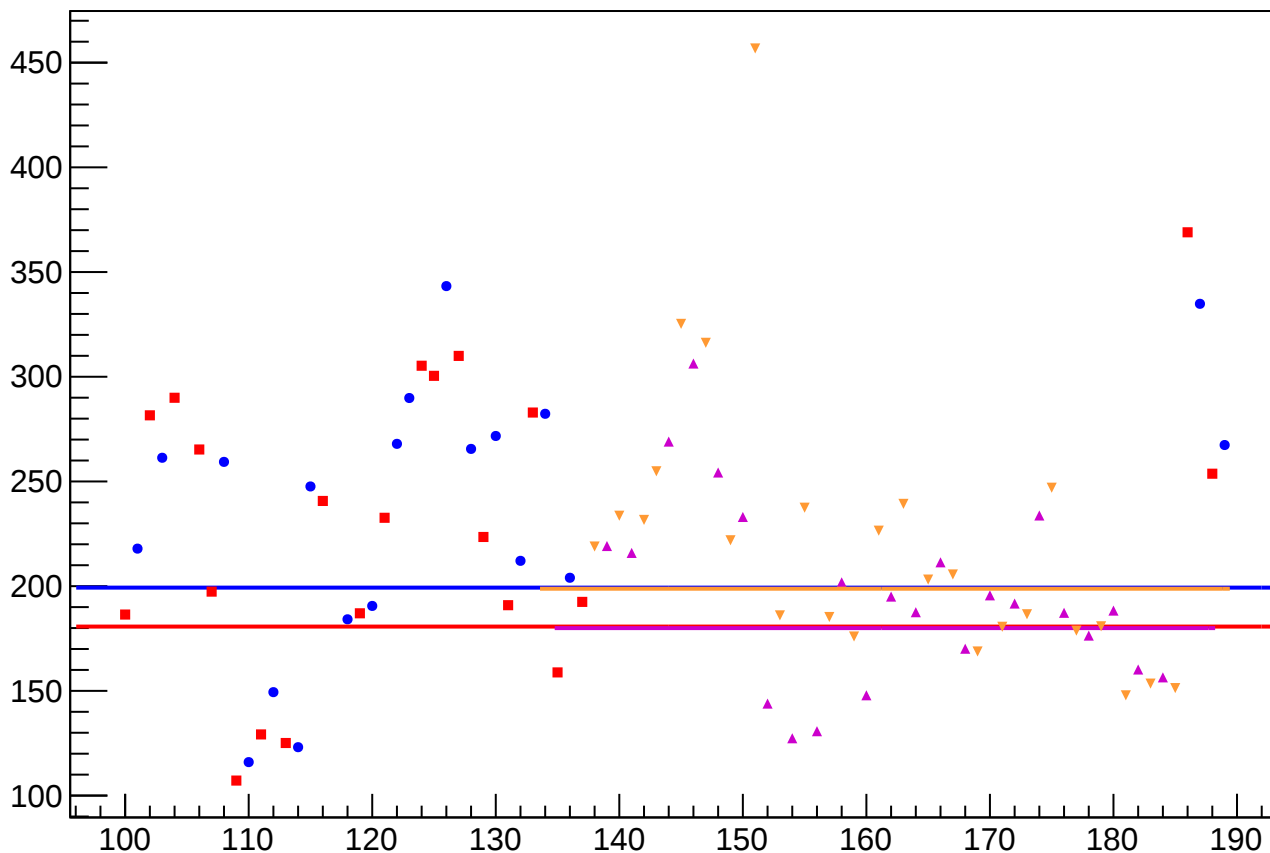
Right: 10.934+/-51.130 χ^2/NDF : 16.2/39

In: 34.984+/-39.078 χ^2/NDF : 16.0/41

Out: 11.838+/-39.202 χ^2/NDF : 13.9/45

All: 23.448+/-27.676 χ^2/NDF : 30.1/87

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: 180.705 $\pm$ 0.048 χ^2 /NDF: 1940154.1/20

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

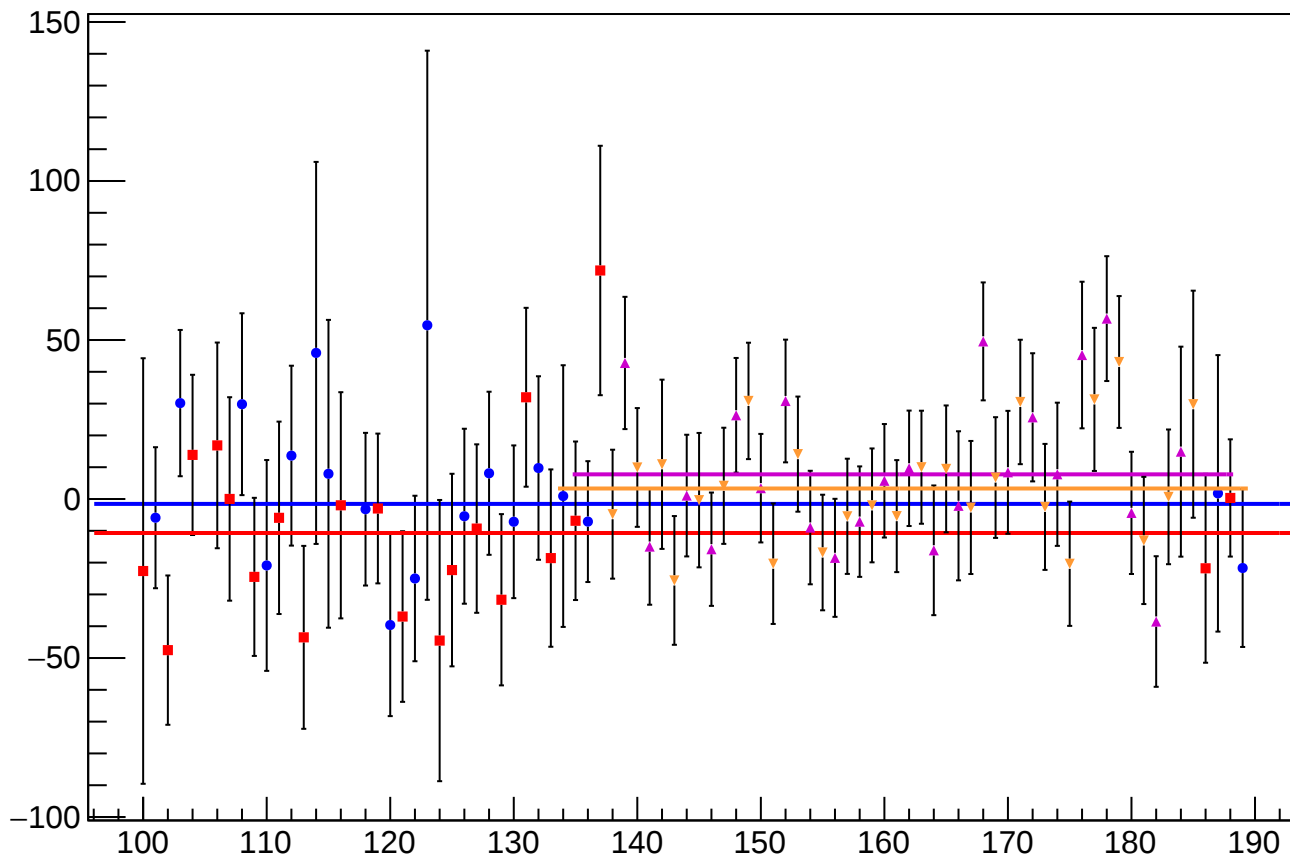
Right: 188.726 $\pm$ 0.036 χ^2 /NDF: 3126909.4/39

In: 184.842 $\pm$ 0.028 χ^2 /NDF:2789969.7/41

Out: 192.739 $\pm$ 0.028 χ^2 /NDF:3793310.1/45

All: 188.778 $\pm$ 0.020 χ^2 /NDF: 6623994.2/87

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: -10.685 ± 6.115 χ^2/NDF : 15.7/20

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

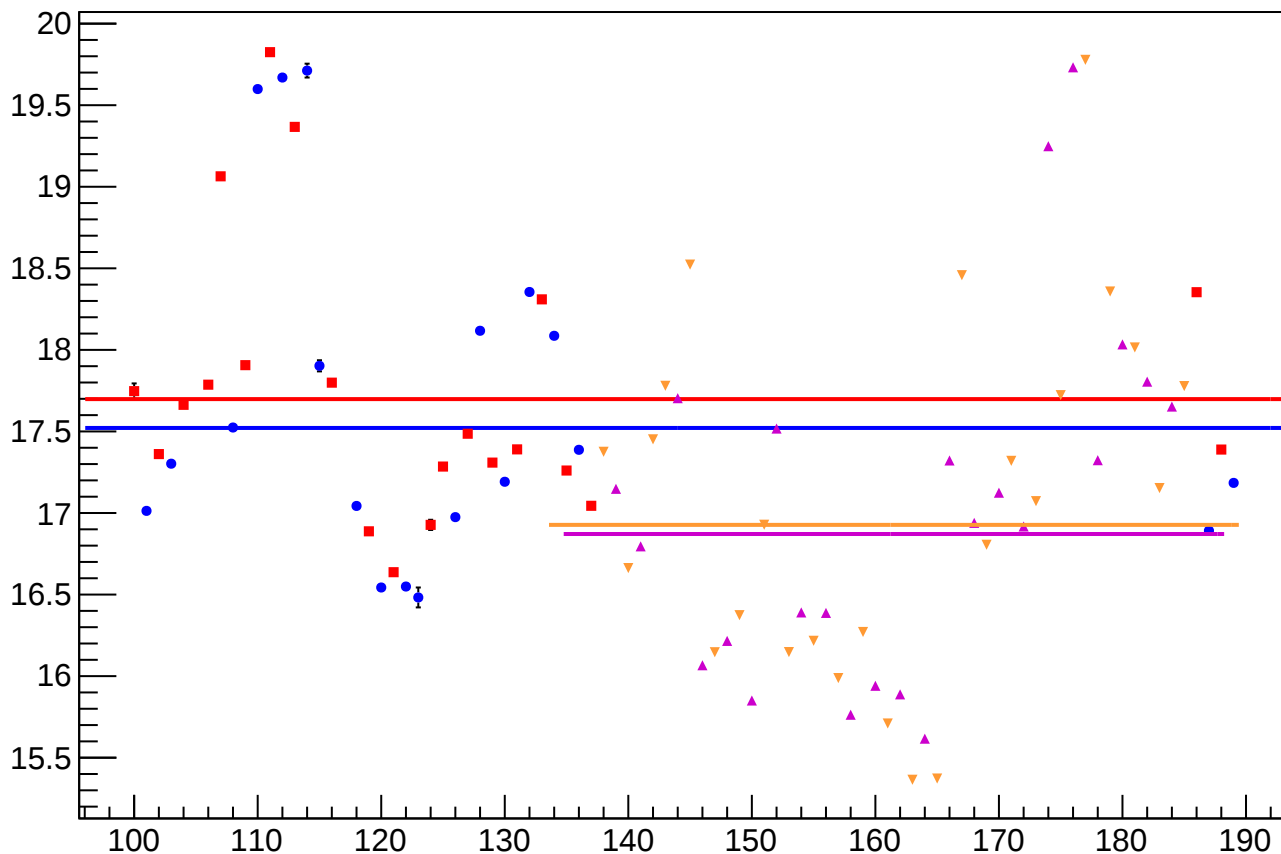
Right: -6.371 ± 4.445 χ^2/NDF : 25.3/39

In: 5.132 ± 3.440 χ^2/NDF : 44.3/41

Out: -0.818 ± 3.320 χ^2/NDF : 38.1/45

All: 2.052 ± 2.389 χ^2/NDF : 84.0/87

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.521 ± 0.005 $\chi^2/\text{NDF}: 34795.8/18$

Left Out: 16.927 ± 0.003 $\chi^2/\text{NDF}: 138533.2/24$

Right Out: 17.698 ± 0.004 $\chi^2/\text{NDF}: 31790.9/20$

Left In: 16.871 ± 0.003 $\chi^2/\text{NDF}: 117993.8/22$

Left: 16.900 ± 0.002 $\chi^2/\text{NDF}: 256722.4/47$

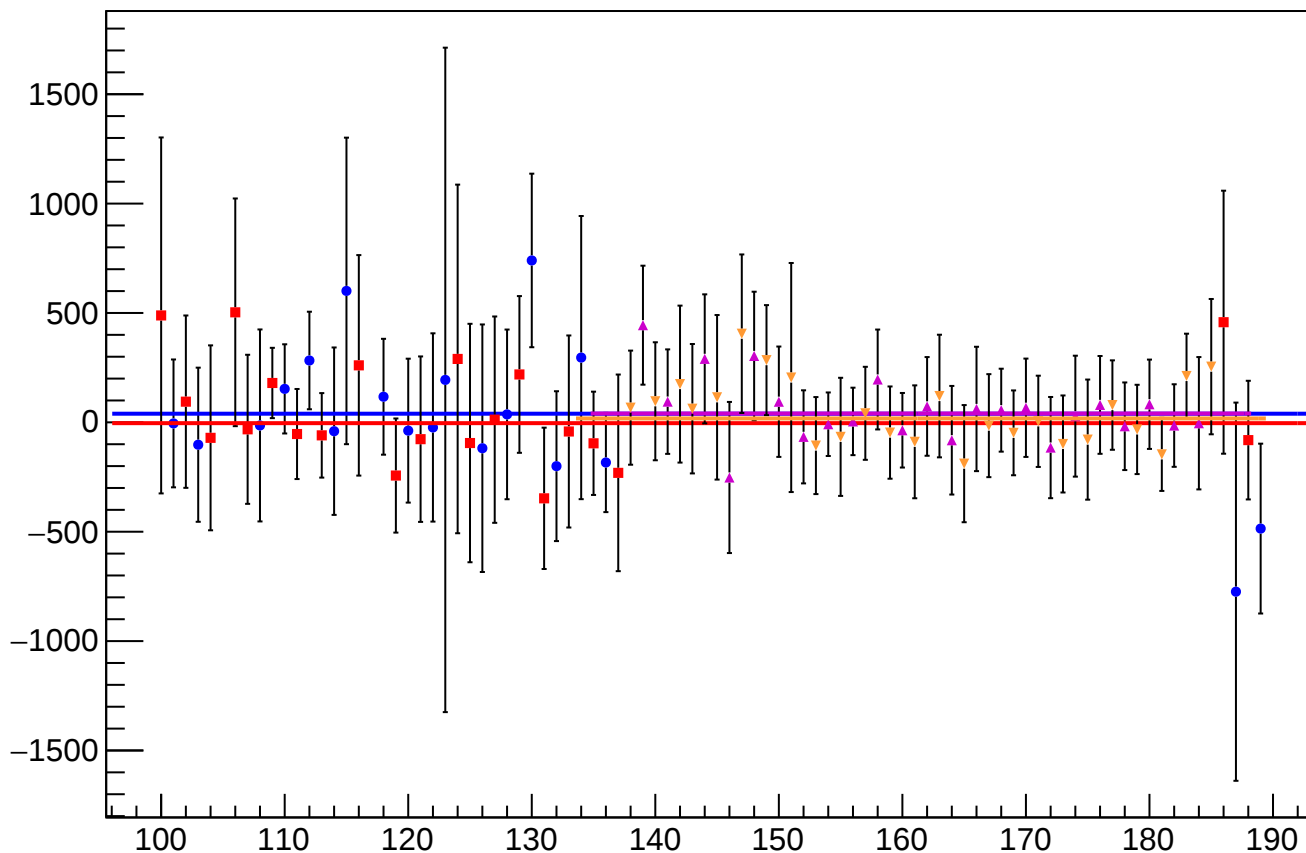
Right: 17.615 ± 0.003 $\chi^2/\text{NDF}: 67375.6/39$

In: 17.055 ± 0.002 $\chi^2/\text{NDF}: 167268.1/41$

Out: 17.155 ± 0.002 $\chi^2/\text{NDF}: 192745.4/45$

All: 17.107 ± 0.002 $\chi^2/\text{NDF}: 360883.1/87$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 39.483 $\pm$ 78.621 χ^2 /NDF: 10.1/18

Left Out: 17.828 $\pm$ 48.547 χ^2 /NDF: 7.5/24

Right Out: -3.708 $\pm$ 68.704 χ^2 /NDF: 6.8/20

Left In: 40.355 $\pm$ 45.689 χ^2 /NDF: 6.6/22

Left: 29.774 $\pm$ 33.271 χ^2 /NDF: 14.2/47

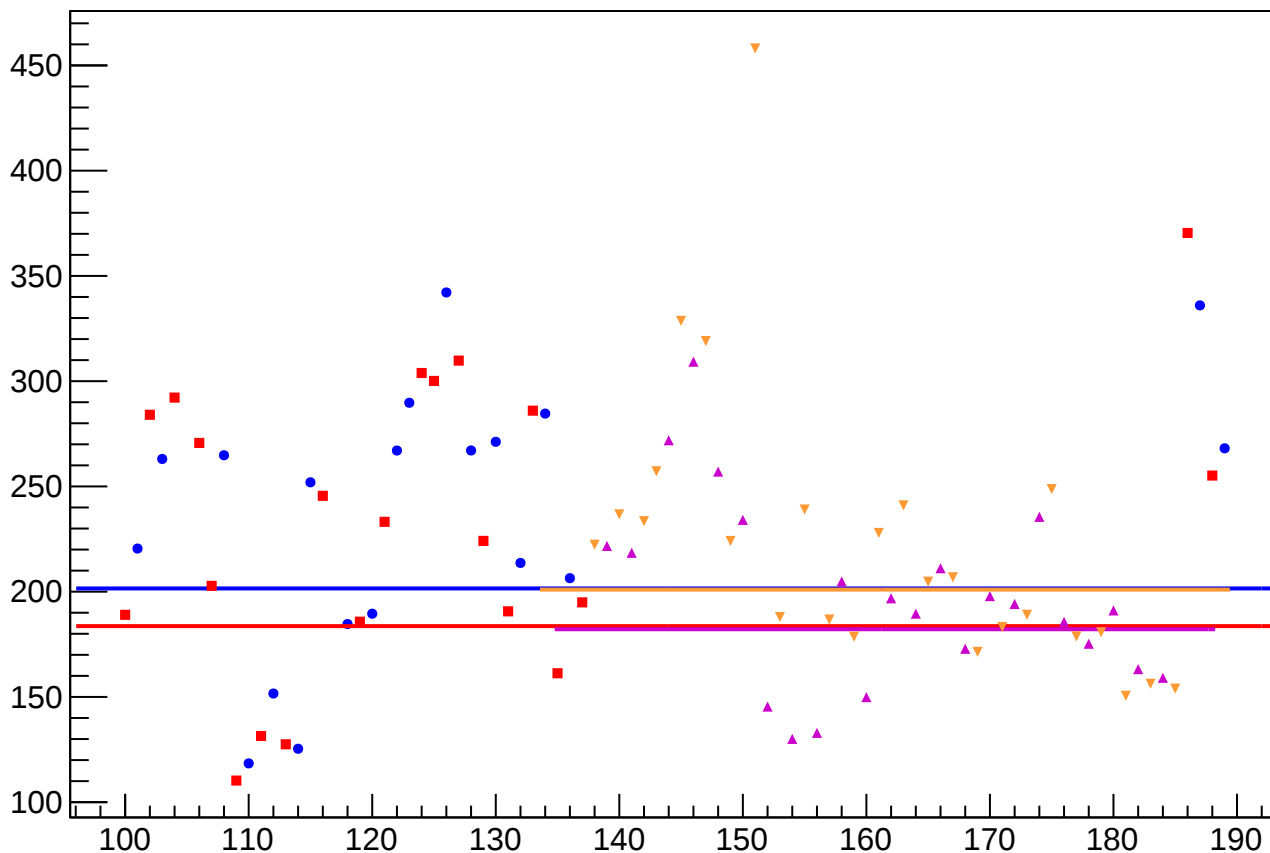
Right: 14.993 $\pm$ 51.734 χ^2 /NDF: 17.0/39

In: 40.135 $\pm$ 39.503 χ^2 /NDF: 16.7/41

Out: 10.656 $\pm$ 39.648 χ^2 /NDF: 14.3/45

All: 25.449 $\pm$ 27.984 χ^2 /NDF: 31.3/87

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: 183.634 $\pm$ 0.049 χ^2/NDF : 1869669.1/20

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

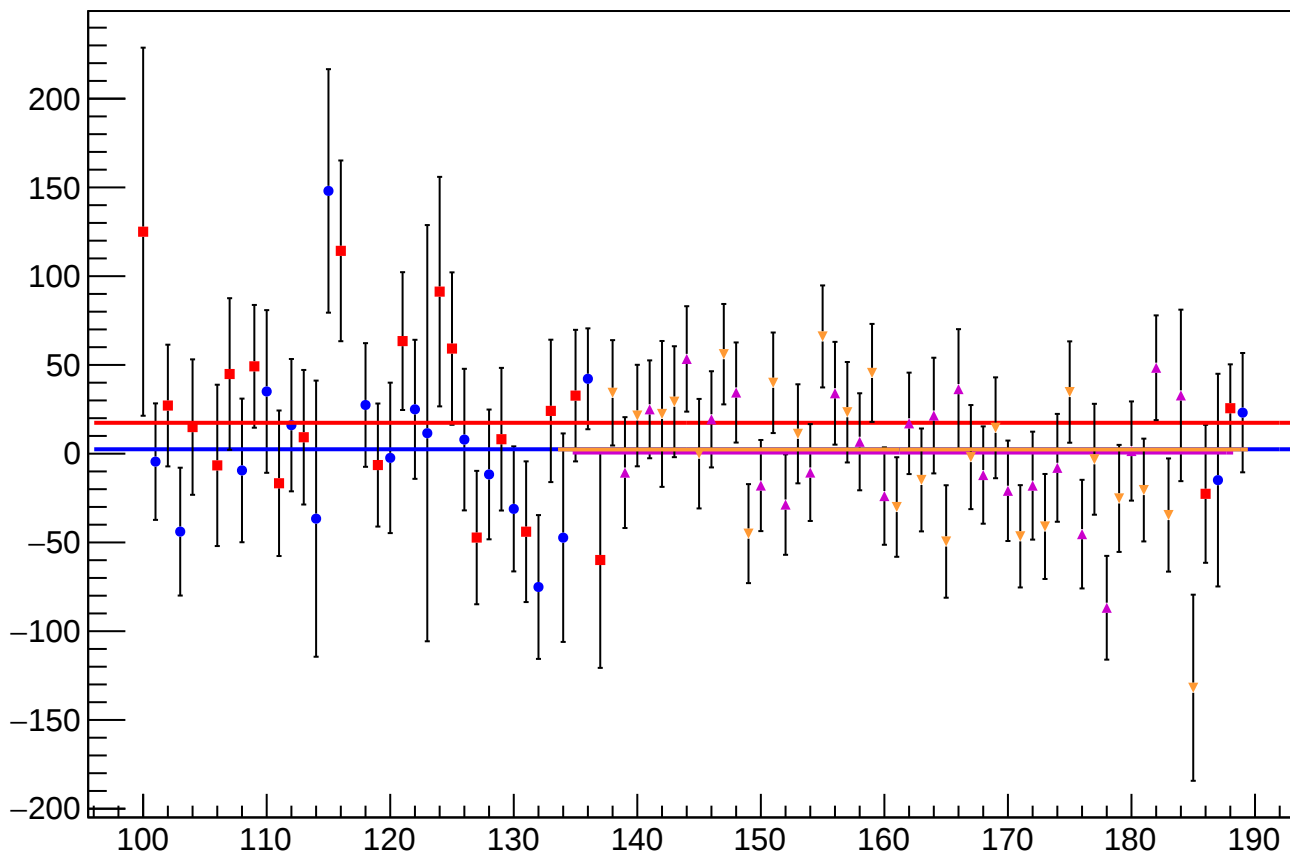
Right: 191.387 $\pm$ 0.037 χ^2/NDF : 3011583.9/39

In: 187.051 $\pm$ 0.028 χ^2/NDF : 2709876.1/41

Out: 195.207 $\pm$ 0.028 χ^2/NDF : 3682040.4/45

All: 191.114 $\pm$ 0.020 χ^2/NDF : 6434387.4/87

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.490+/-9.335 χ^2/NDF : 15.9/18

Left Out: 2.390+/-5.980 χ^2/NDF :39.1/24

Right Out: 17.401+/-8.659 χ^2/NDF : 19.6/20

Left In: 0.641+/-6.091 χ^2/NDF :27.3/22

Left: 1.531+/-4.267 χ^2/NDF : 66.5/47

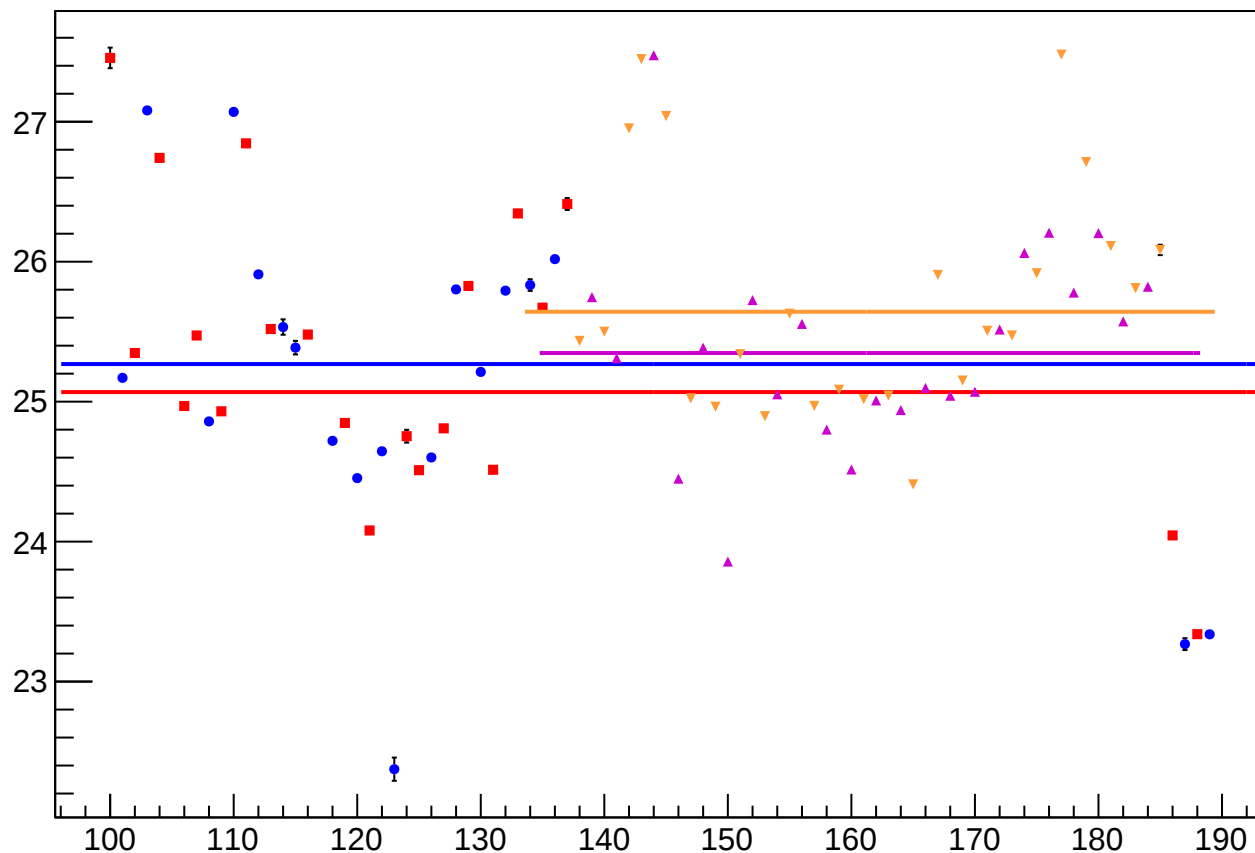
Right: 10.505+/-6.348 χ^2/NDF : 36.9/39

In: 1.193+/-5.101 χ^2/NDF :43.3/41

Out: 7.237+/-4.921 χ^2/NDF :60.7/45

All: 4.324+/-3.542 χ^2/NDF : 104.7/87

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: 25.068 $\pm$ 0.006 χ^2 /NDF: 27110.3/20

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

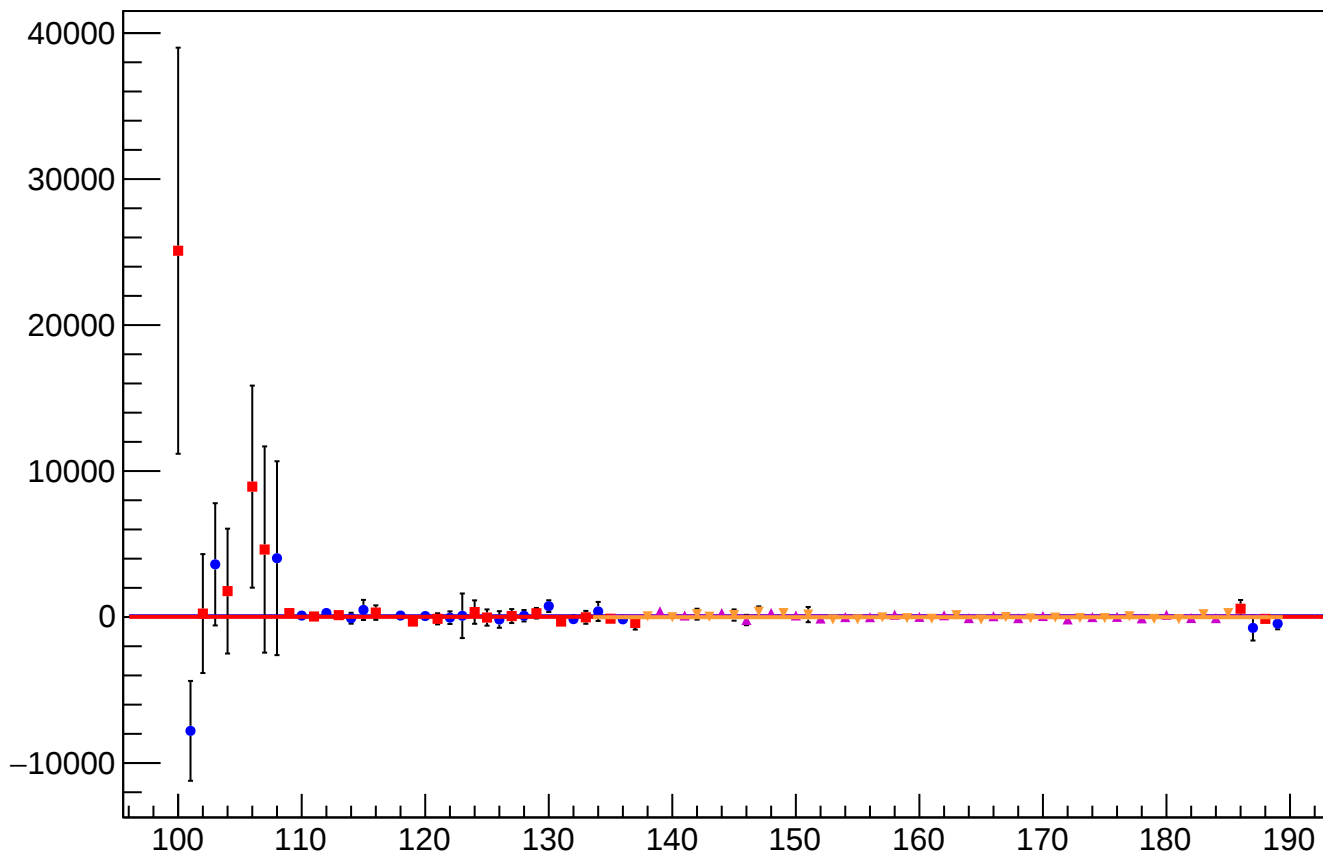
Right: 25.161 $\pm$ 0.004 χ^2 /NDF: 51299.9/39

In: 25.324 $\pm$ 0.004 χ^2 /NDF:53185.3/41

Out: 25.457 $\pm$ 0.003 χ^2 /NDF:67860.1/45

All: 25.393 $\pm$ 0.003 χ^2 /NDF: 121750.8/87

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: 16.445+/-76.911 χ^2/NDF : 13.1/20

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47

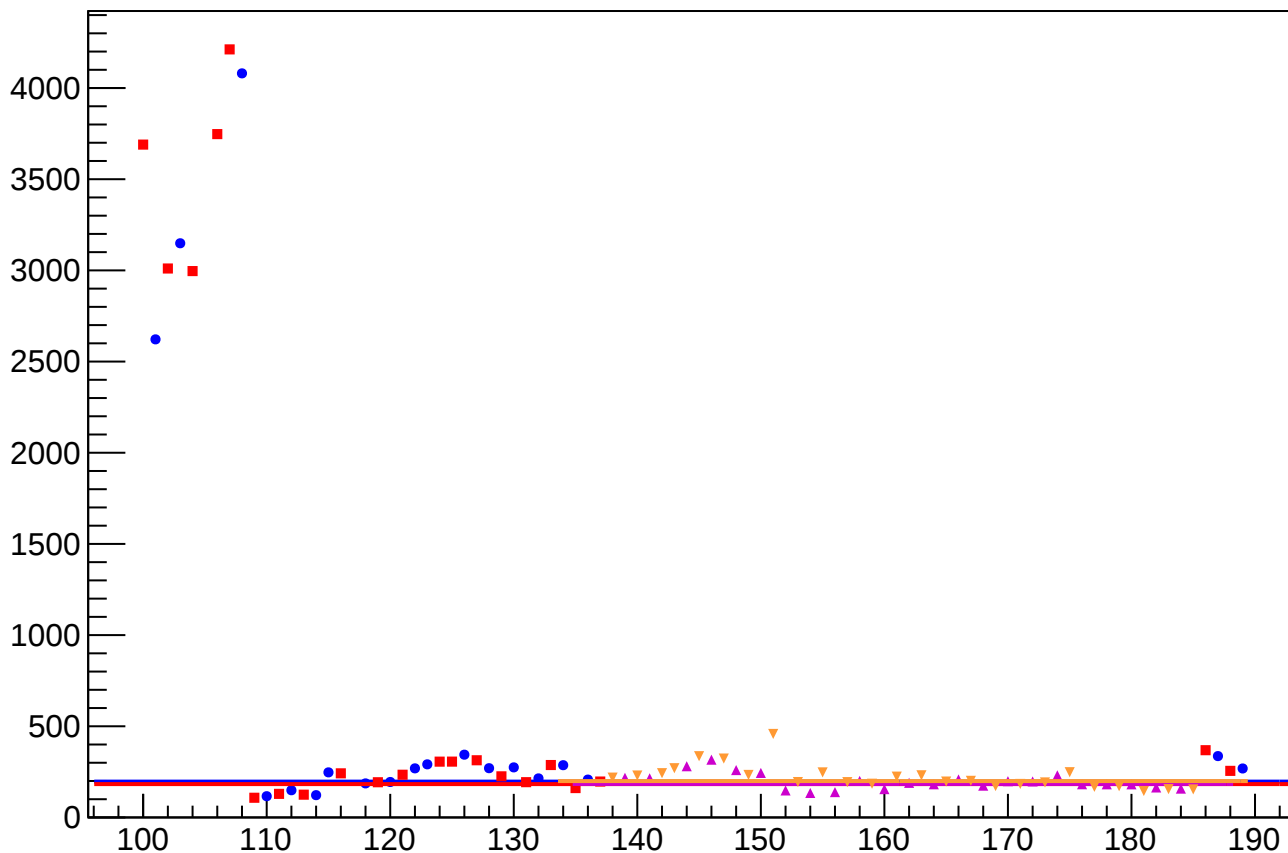
Right: 33.773+/-57.132 χ^2/NDF : 28.4/39

In: 33.403+/-40.491 χ^2/NDF : 22.4/41

Out: -3.556+/-40.880 χ^2/NDF : 21.2/45

All: 15.100+/-28.768 χ^2/NDF : 44.1/87

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: 182.908 $\pm$ 0.054 χ^2 /NDF: 4566754.9/20

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

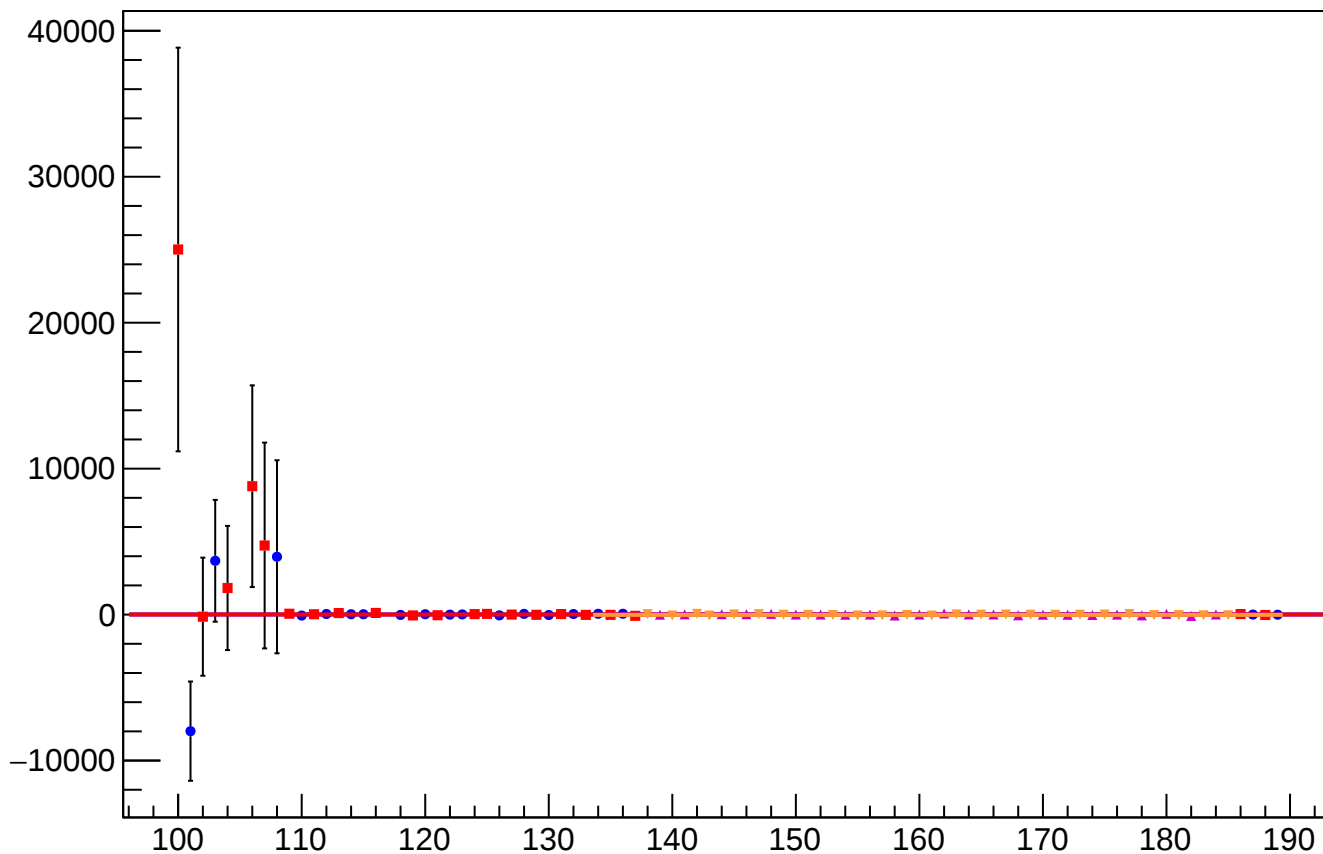
Right: 189.021 $\pm$ 0.040 χ^2 /NDF: 8296137.5/39

In: 186.673 $\pm$ 0.029 χ^2 /NDF: 5148612.6/41

Out: 194.768 $\pm$ 0.029 χ^2 /NDF: 6510883.6/45

All: 190.682 $\pm$ 0.020 χ^2 /NDF: 11699079.0/87

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: 8.011+/-11.112 χ^2/NDF : 25.6/20

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

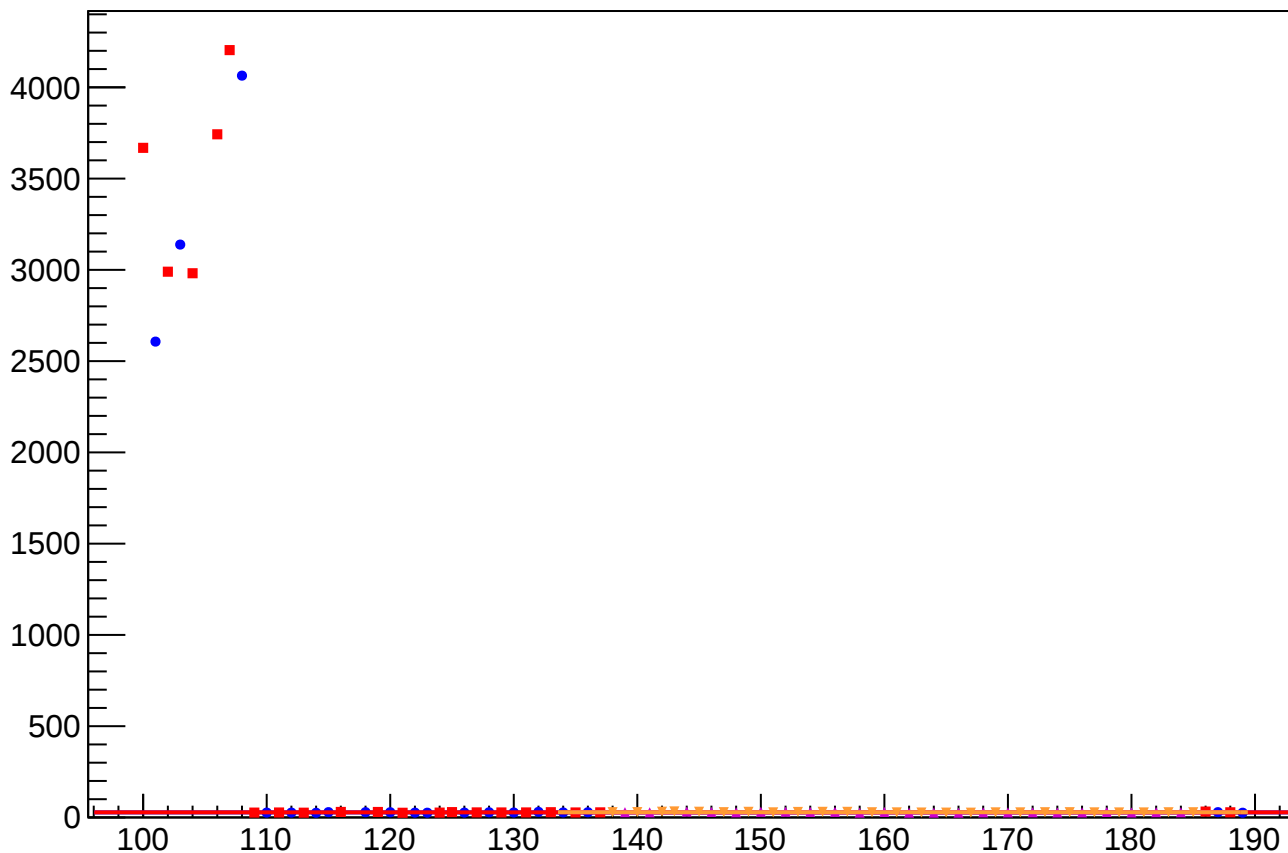
Right: 8.756+/-7.986 χ^2/NDF : 44.1/39

In: 3.469+/-5.919 χ^2/NDF : 50.9/41

Out: -11.146+/-5.740 χ^2/NDF : 51.4/45

All: -4.063+/-4.121 χ^2/NDF : 105.4/87

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: 27.990 $\pm$ 0.008 χ^2 /NDF: 3491177.1/20

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

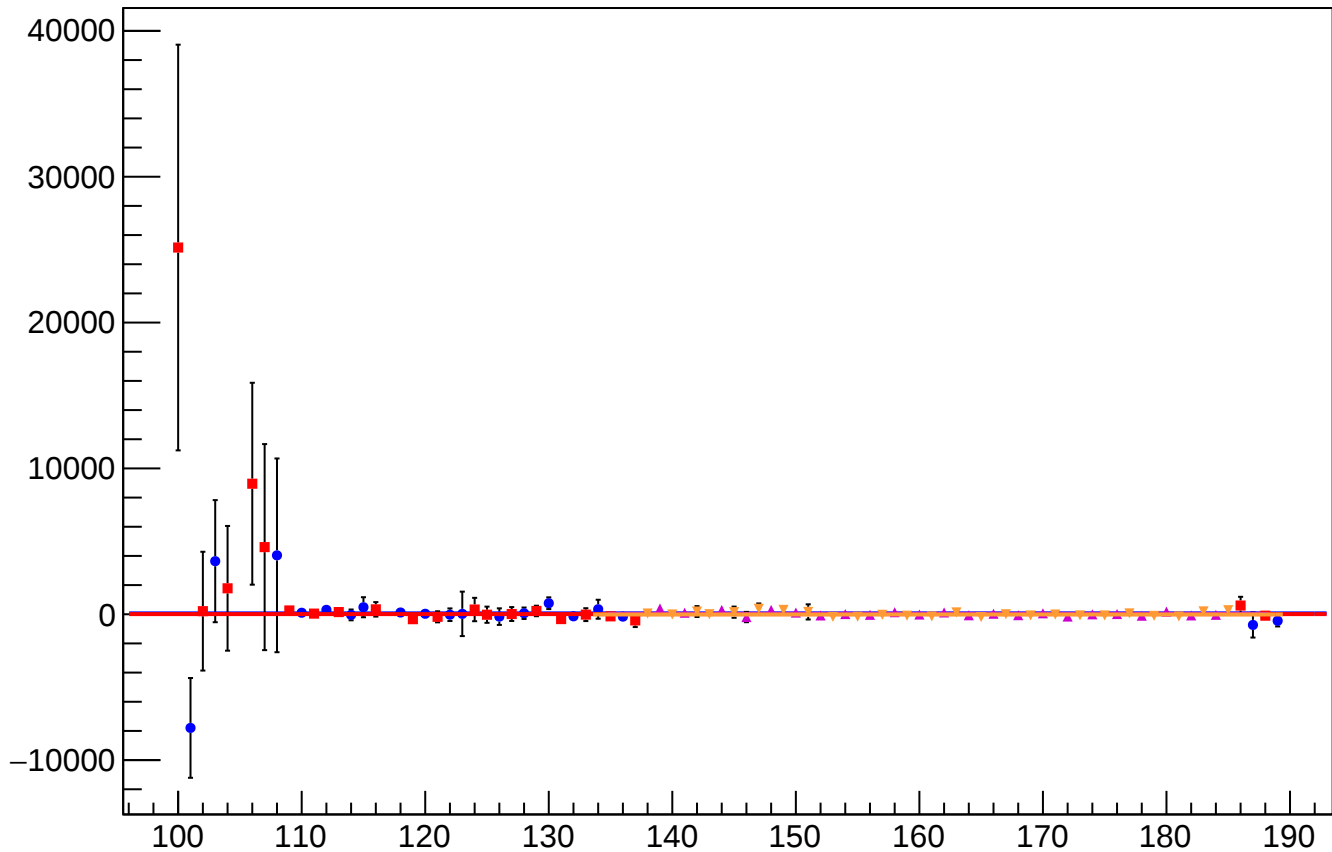
Right: 27.851 $\pm$ 0.006 χ^2 /NDF: 6524307.9/39

In: 28.418 $\pm$ 0.004 χ^2 /NDF: 3166873.3/41

Out: 28.506 $\pm$ 0.004 χ^2 /NDF: 3607533.1/45

All: 28.463 $\pm$ 0.003 χ^2 /NDF: 6774634.1/87

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: 10.185+/-76.690 χ^2/NDF : 13.9/20

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

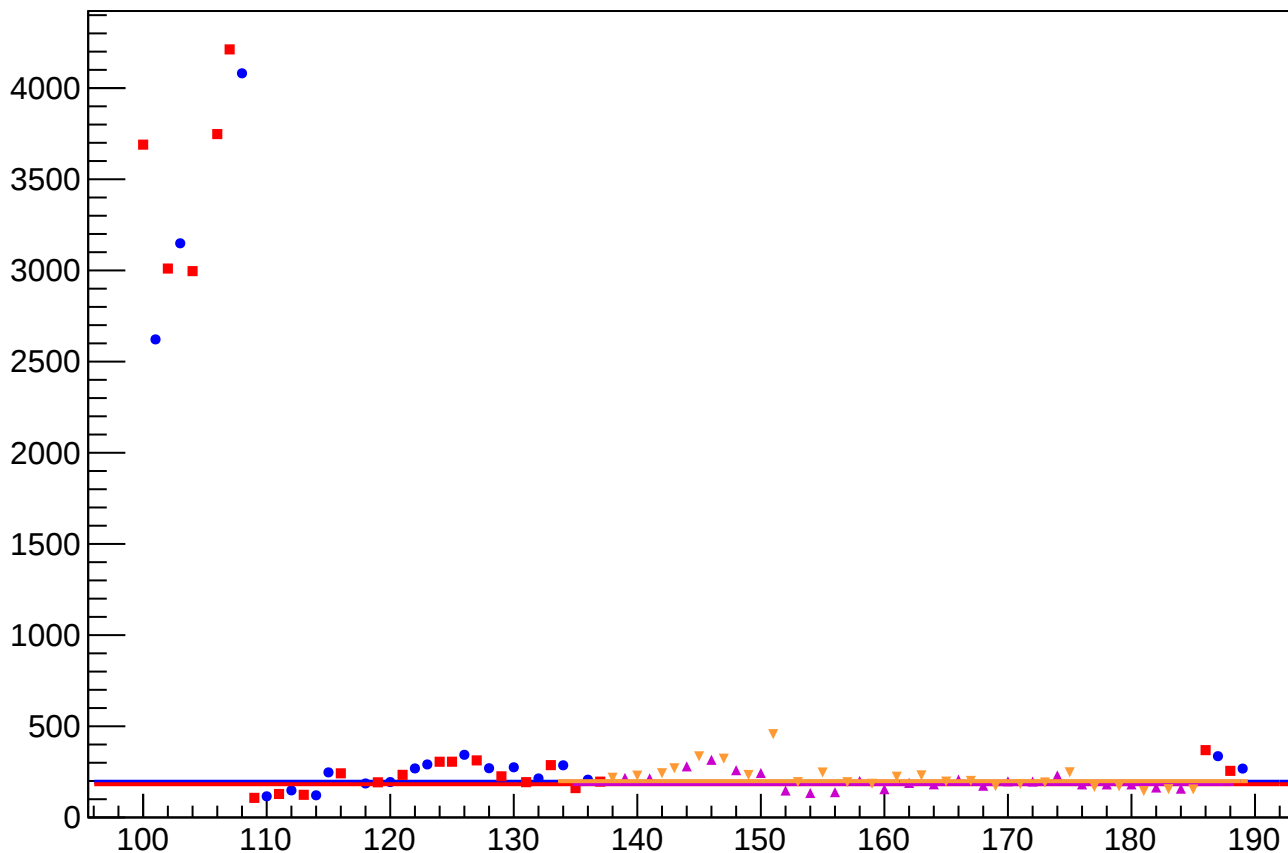
Right: 32.440+/-56.963 χ^2/NDF : 29.5/39

In: 34.625+/-40.401 χ^2/NDF : 23.0/41

Out: -7.073+/-40.782 χ^2/NDF : 22.8/45

All: 13.972+/-28.702 χ^2/NDF : 46.3/87

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.834+/-0.060 χ^2/NDF : 3713981.2/18

Left Out: 198.997+/-0.034 χ^2/NDF : 1877636.0/24

Right Out: 182.254+/-0.054 χ^2/NDF : 4582880.4/20

Left In: 183.442+/-0.032 χ^2/NDF : 1412341.8/22

Left: 190.847+/-0.023 χ^2/NDF : 3399302.2/47

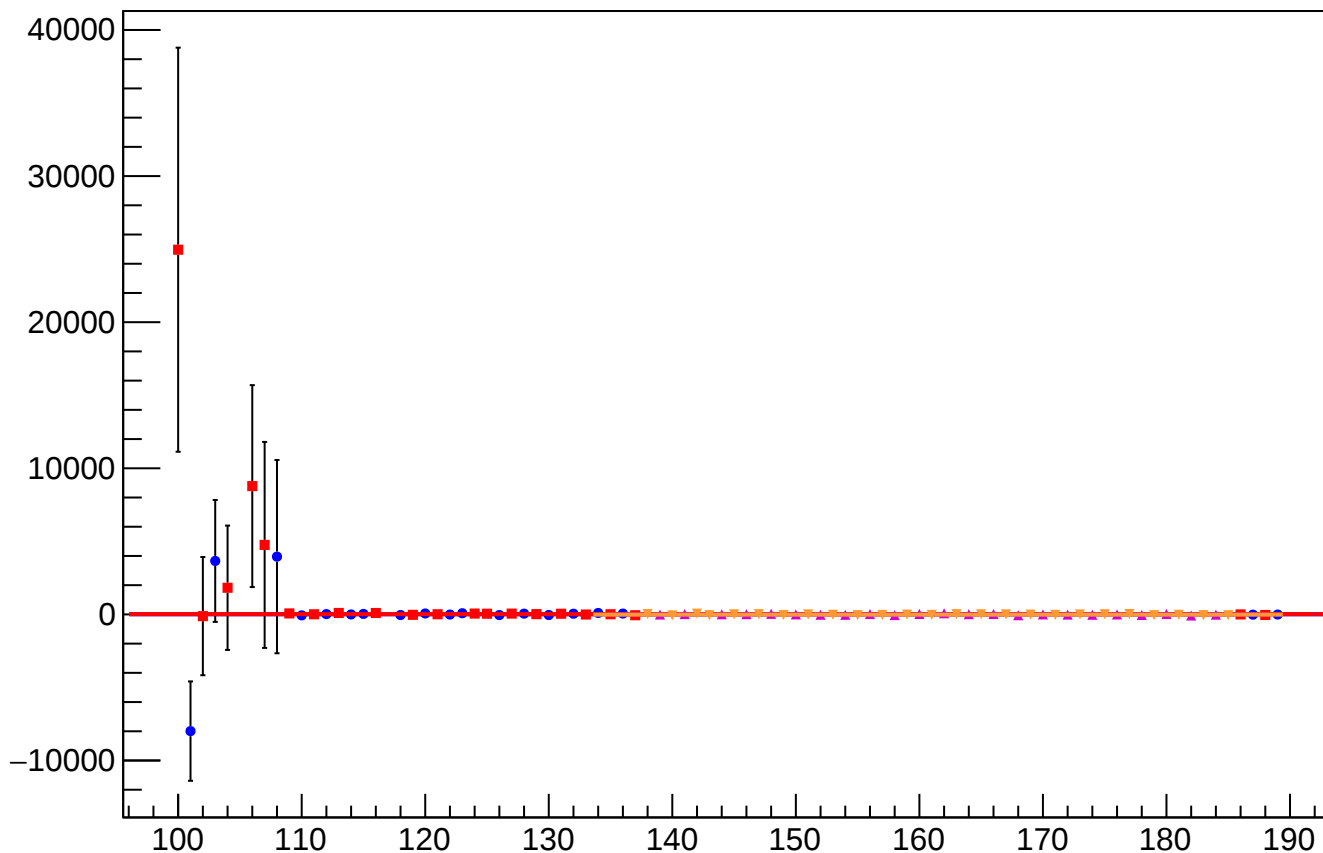
Right: 188.342+/-0.040 χ^2/NDF : 8324971.7/39

In: 186.236+/-0.029 χ^2/NDF : 5159184.6/41

Out: 194.262+/-0.029 χ^2/NDF : 6528881.9/45

All: 190.211+/-0.020 χ^2/NDF : 11727161.9/87

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.942 $\pm$ 11.546 χ^2 /NDF: 22.9/18

Left Out: -15.829 $\pm$ 6.733 χ^2 /NDF:16.5/24

Right Out: 17.647 $\pm$ 11.164 χ^2 /NDF: 20.7/20

Left In: -0.498 $\pm$ 6.937 χ^2 /NDF:26.1/22

Left: -8.392 $\pm$ 4.831 χ^2 /NDF: 45.1/47

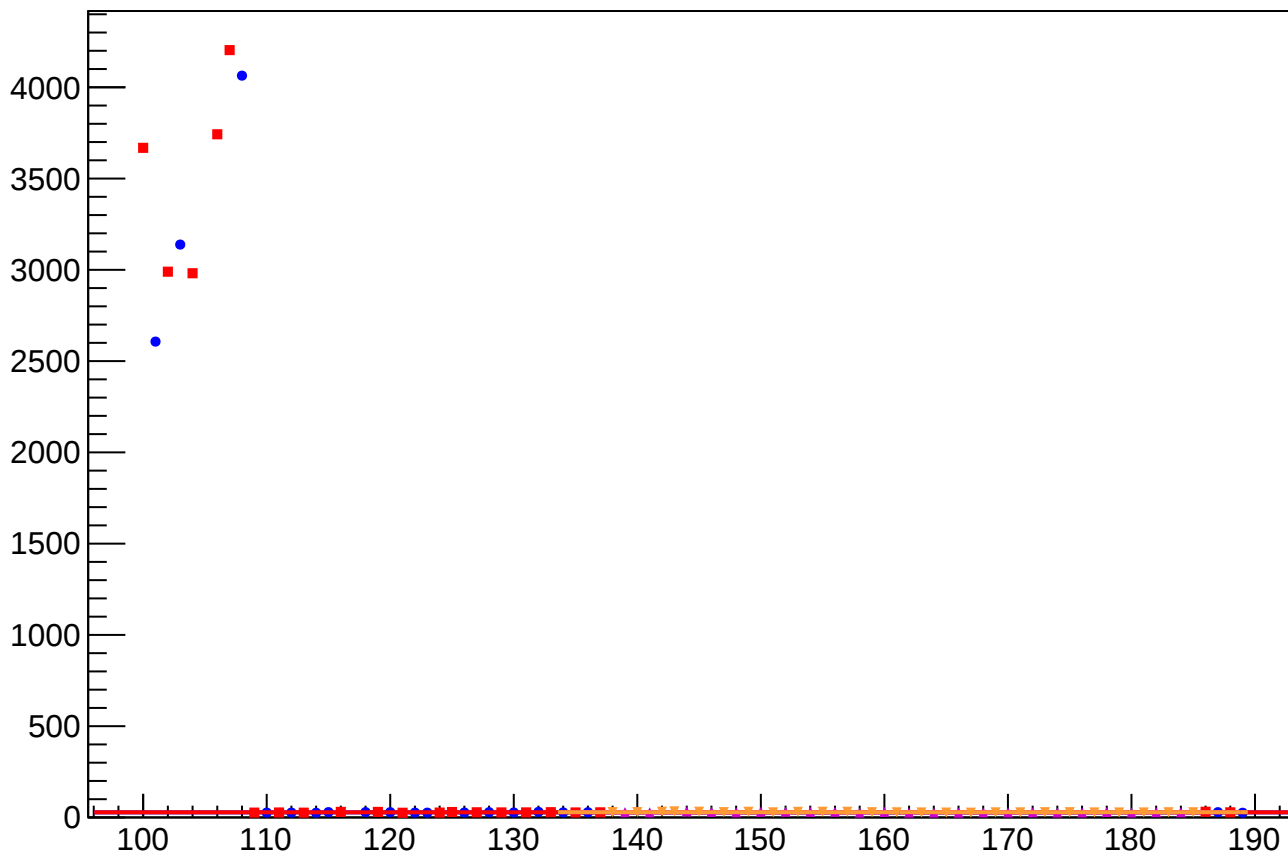
Right: 12.474 $\pm$ 8.026 χ^2 /NDF: 44.1/39

In: 1.475 $\pm$ 5.946 χ^2 /NDF:49.3/41

Out: -6.900 $\pm$ 5.766 χ^2 /NDF:43.8/45

All: -2.841 $\pm$ 4.139 χ^2 /NDF: 94.1/87

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: 28.122+/-0.008 χ^2/NDF : 3488197.7/20

Left In: 28.797+/-0.005 χ^2/NDF : 128279.2/22

Left: 28.806+/-0.003 χ^2/NDF : 250439.0/47

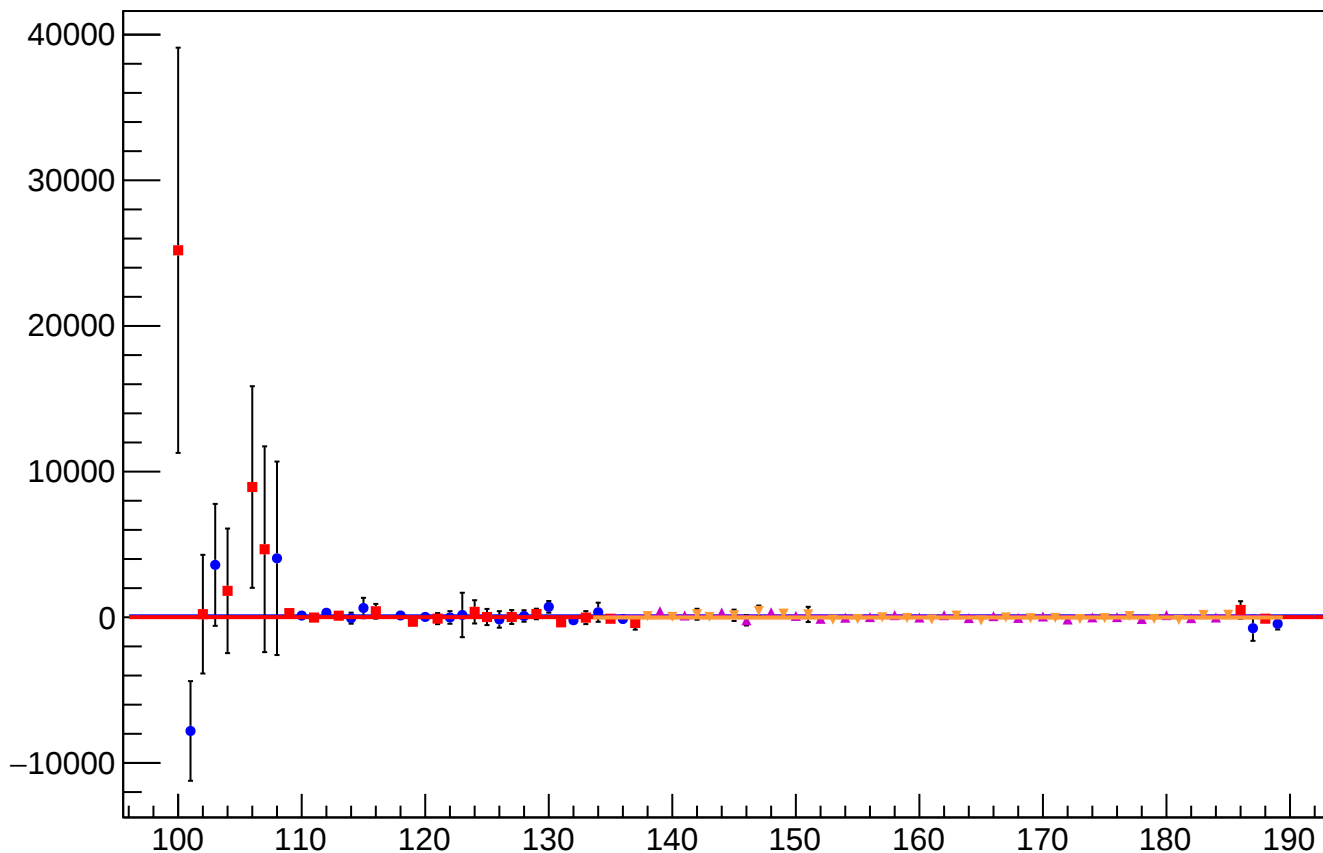
Right: 27.988+/-0.006 χ^2/NDF : 6523143.9/39

In: 28.545+/-0.004 χ^2/NDF : 3172637.6/41

Out: 28.630+/-0.004 χ^2/NDF : 3615987.8/45

All: 28.588+/-0.003 χ^2/NDF : 6788836.6/87

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: 7.758+/-77.655 χ^2/NDF : 13.1/20

Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47

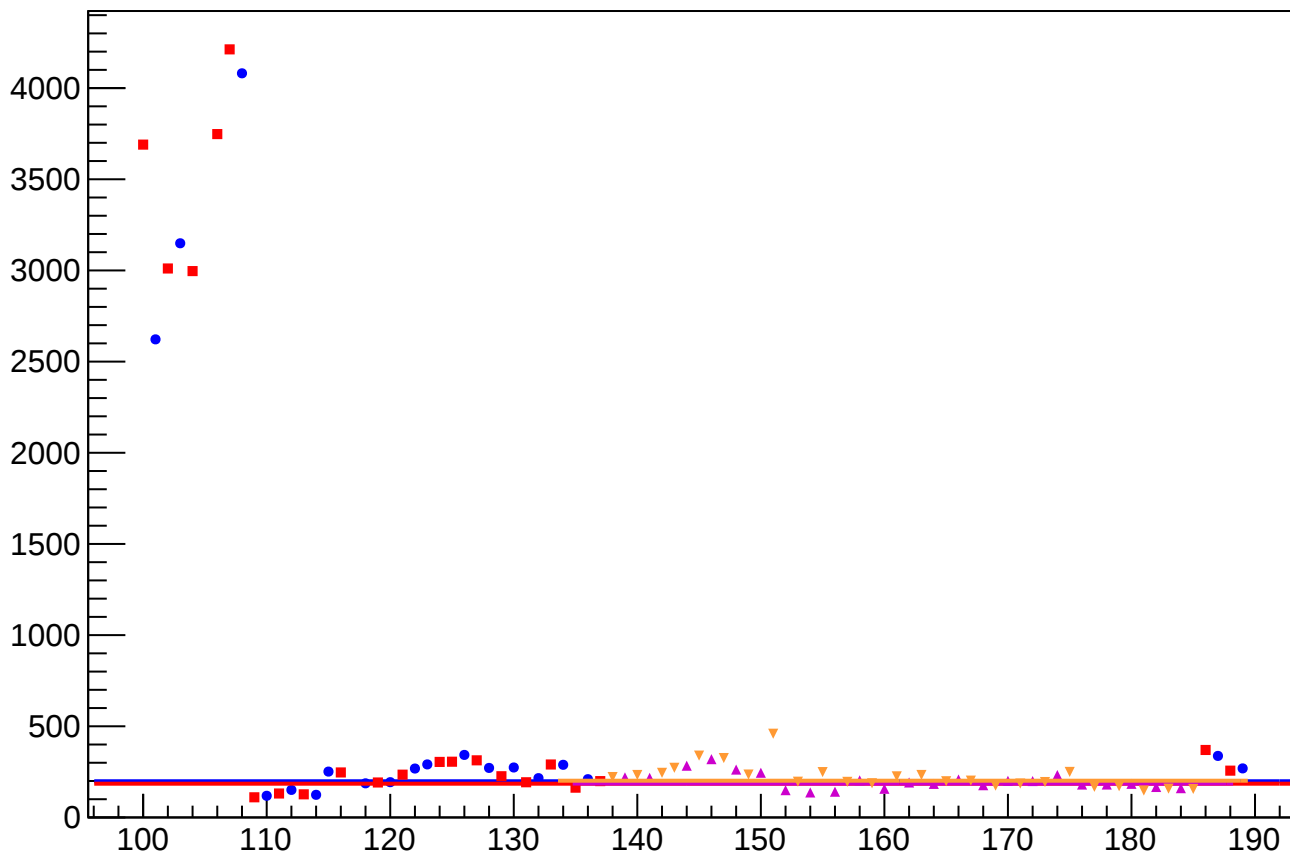
Right: 34.066+/-57.649 χ^2/NDF : 28.7/39

In: 39.359+/-40.897 χ^2/NDF : 23.3/41

Out: -7.827+/-41.279 χ^2/NDF : 21.3/45

All: 15.986+/-29.053 χ^2/NDF : 45.3/87

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: 185.131+/-0.055 χ^2/NDF : 4516430.3/20

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

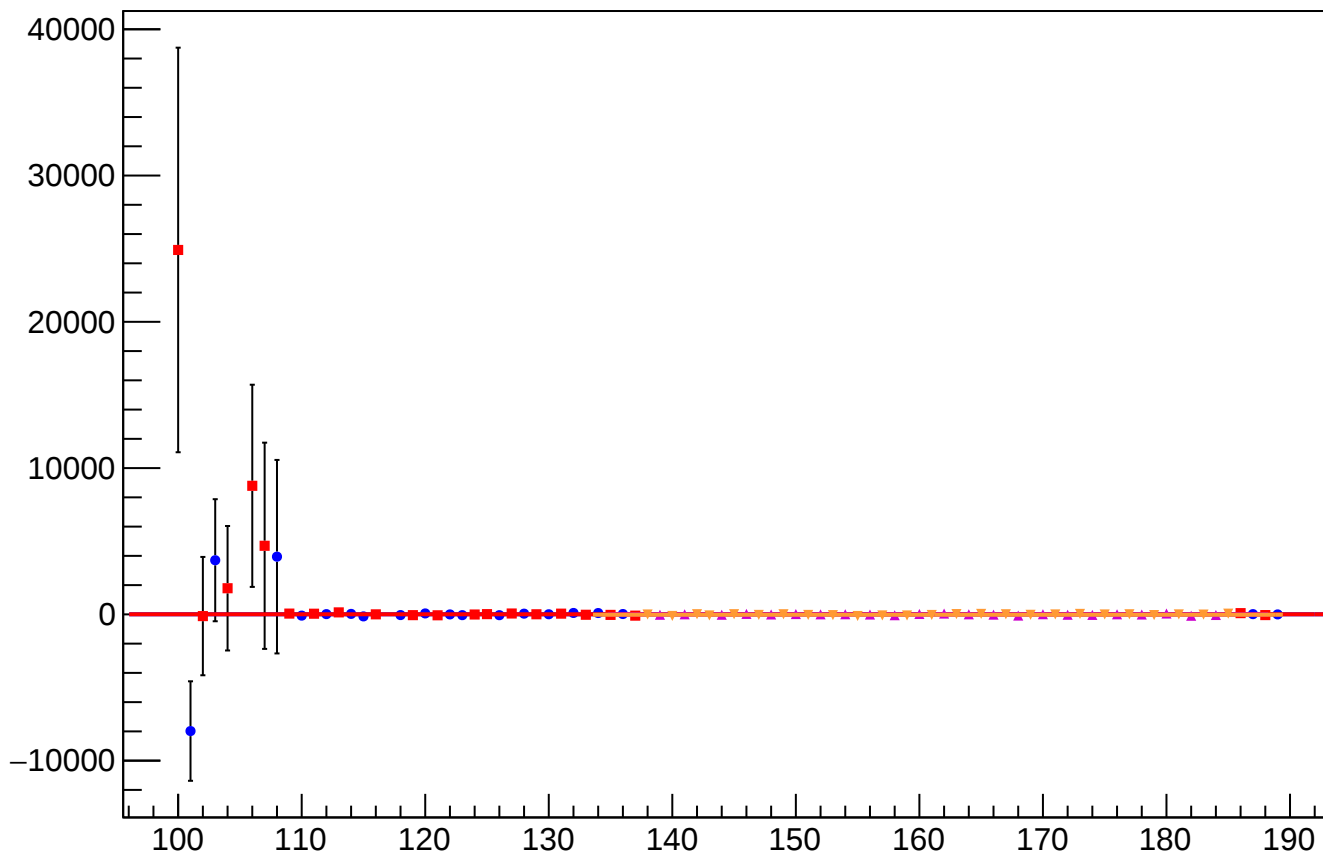
Right: 191.143+/-0.041 χ^2/NDF : 8204794.1/39

In: 188.735+/-0.029 χ^2/NDF : 5075977.4/41

Out: 196.877+/-0.029 χ^2/NDF : 6435109.7/45

All: 192.768+/-0.021 χ^2/NDF : 11550349.3/87

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: 7.152+/-13.529 χ^2/NDF : 25.2/20

Left In: -5.924+/-8.340 χ^2/NDF :21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

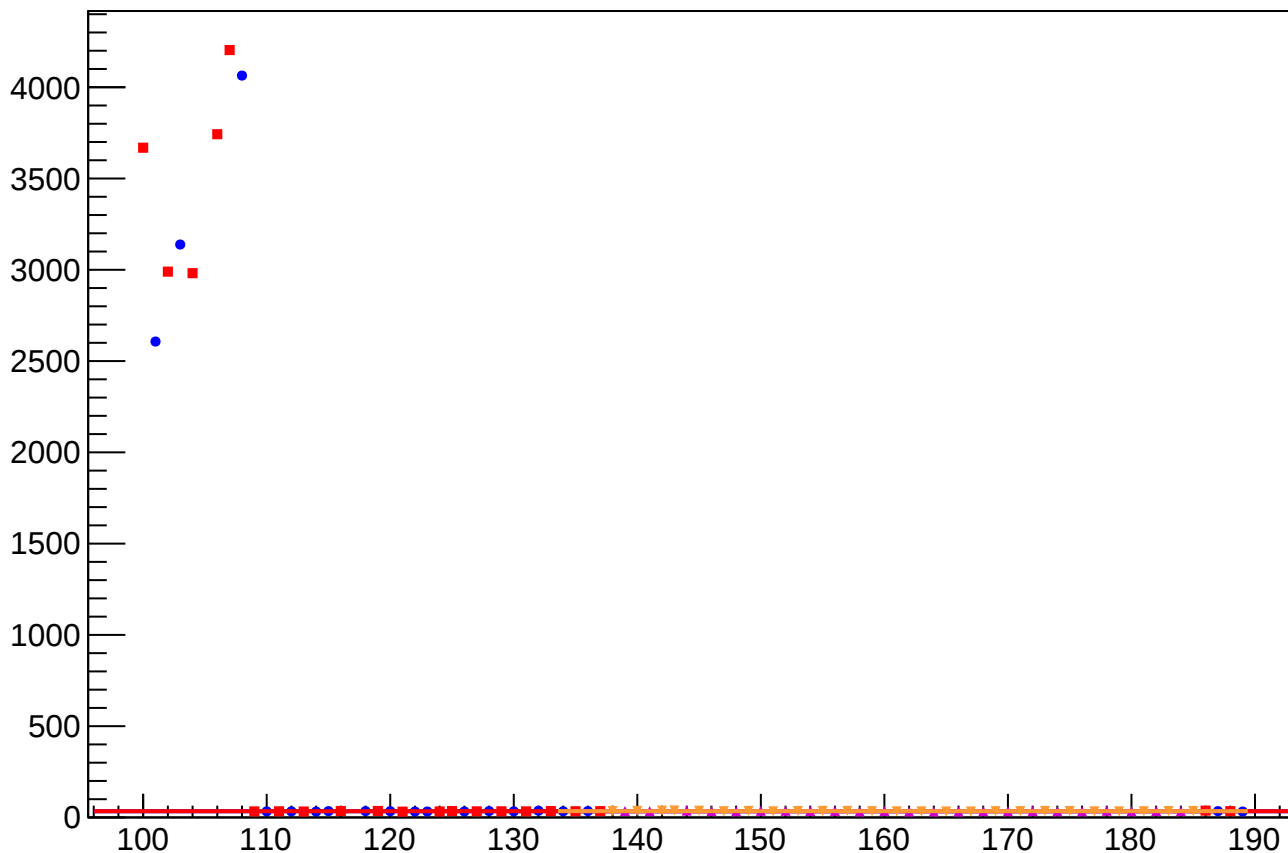
Right: 6.408+/-9.755 χ^2/NDF : 45.4/39

In: -2.930+/-7.175 χ^2/NDF :41.6/41

Out: -15.921+/-6.935 χ^2/NDF :54.1/45

All: -9.647+/-4.986 χ^2/NDF : 97.4/87

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: 34.163 $\pm$ 0.010 χ^2 /NDF: 3458065.2/20

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

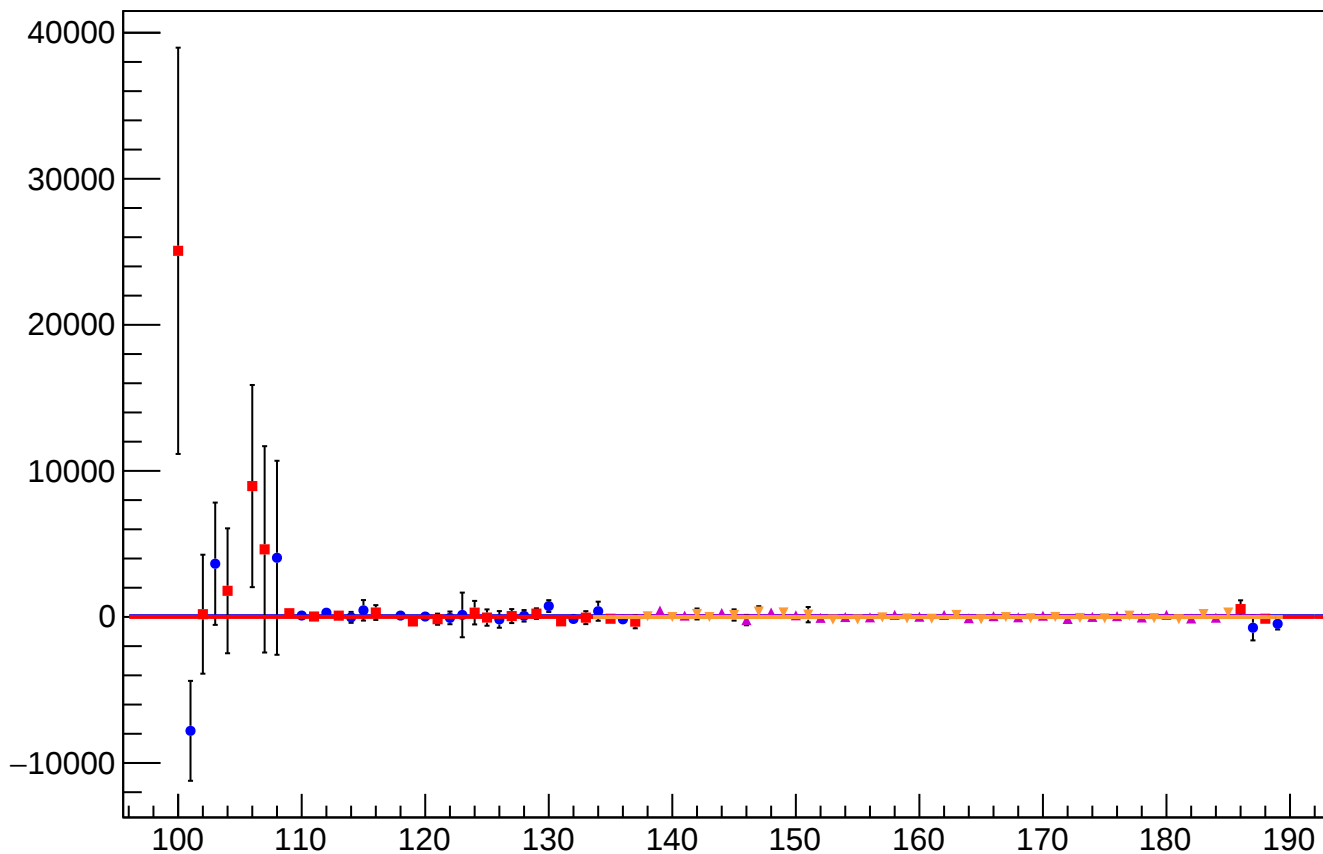
Right: 34.083 $\pm$ 0.007 χ^2 /NDF: 6467693.7/39

In: 34.504 $\pm$ 0.005 χ^2 /NDF: 3072828.6/41

Out: 34.498 $\pm$ 0.005 χ^2 /NDF: 3517596.0/45

All: 34.501 $\pm$ 0.004 χ^2 /NDF: 6590425.2/87

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: 2.561 $\pm$ 77.179 χ^2 /NDF: 12.1/20

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

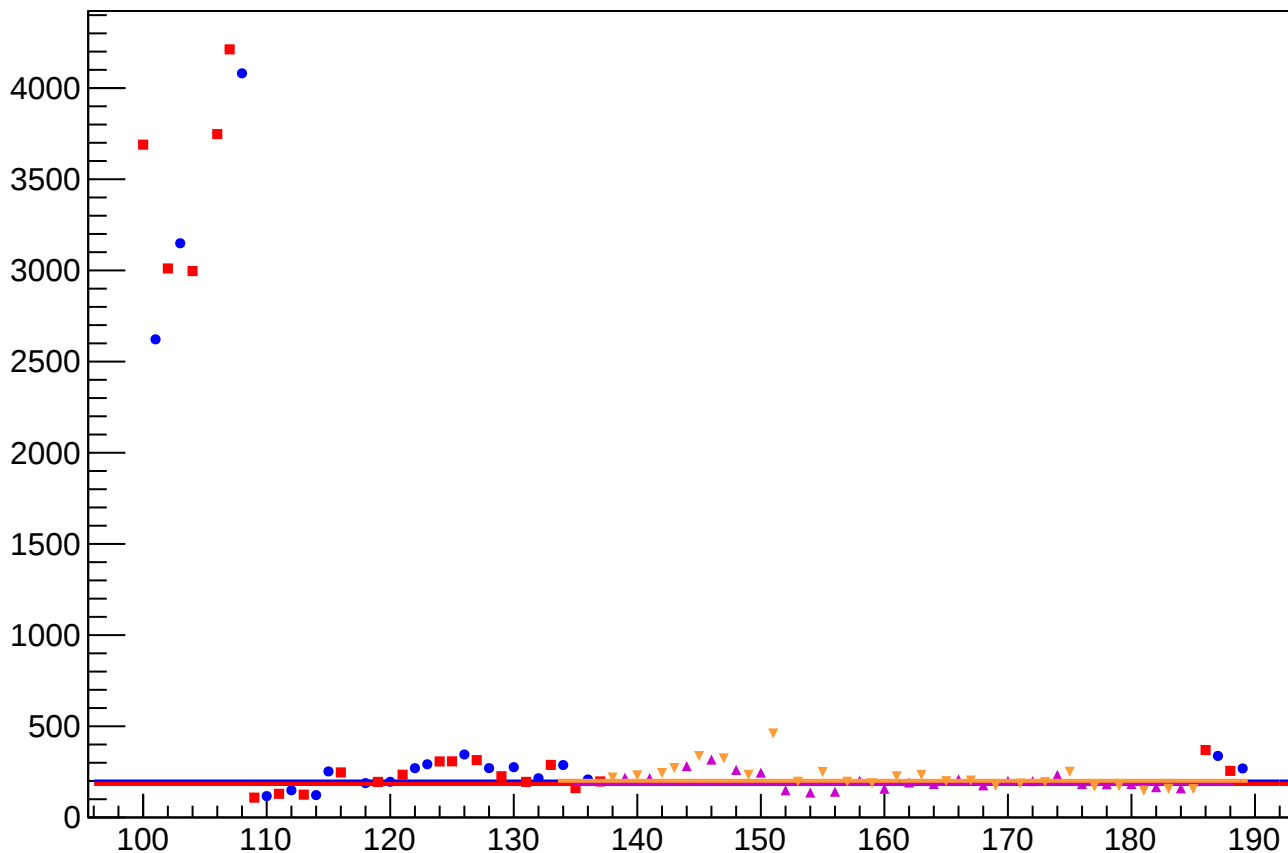
Right: 24.553 $\pm$ 57.331 χ^2 /NDF: 27.6/39

In: 38.759 $\pm$ 40.810 χ^2 /NDF: 22.4/41

Out: -4.680 $\pm$ 41.163 χ^2 /NDF: 20.9/45

All: 17.227 $\pm$ 28.981 χ^2 /NDF: 43.9/87

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.240+/-0.061 χ^2/NDF : 3701536.0/18

Left Out: 201.198+/-0.034 χ^2/NDF : 1848437.4/24

Right Out: 183.574+/-0.055 χ^2/NDF : 4567812.2/20

Left In: 185.627+/-0.033 χ^2/NDF : 1371411.2/22

Left: 193.046+/-0.024 χ^2/NDF : 3327061.1/47

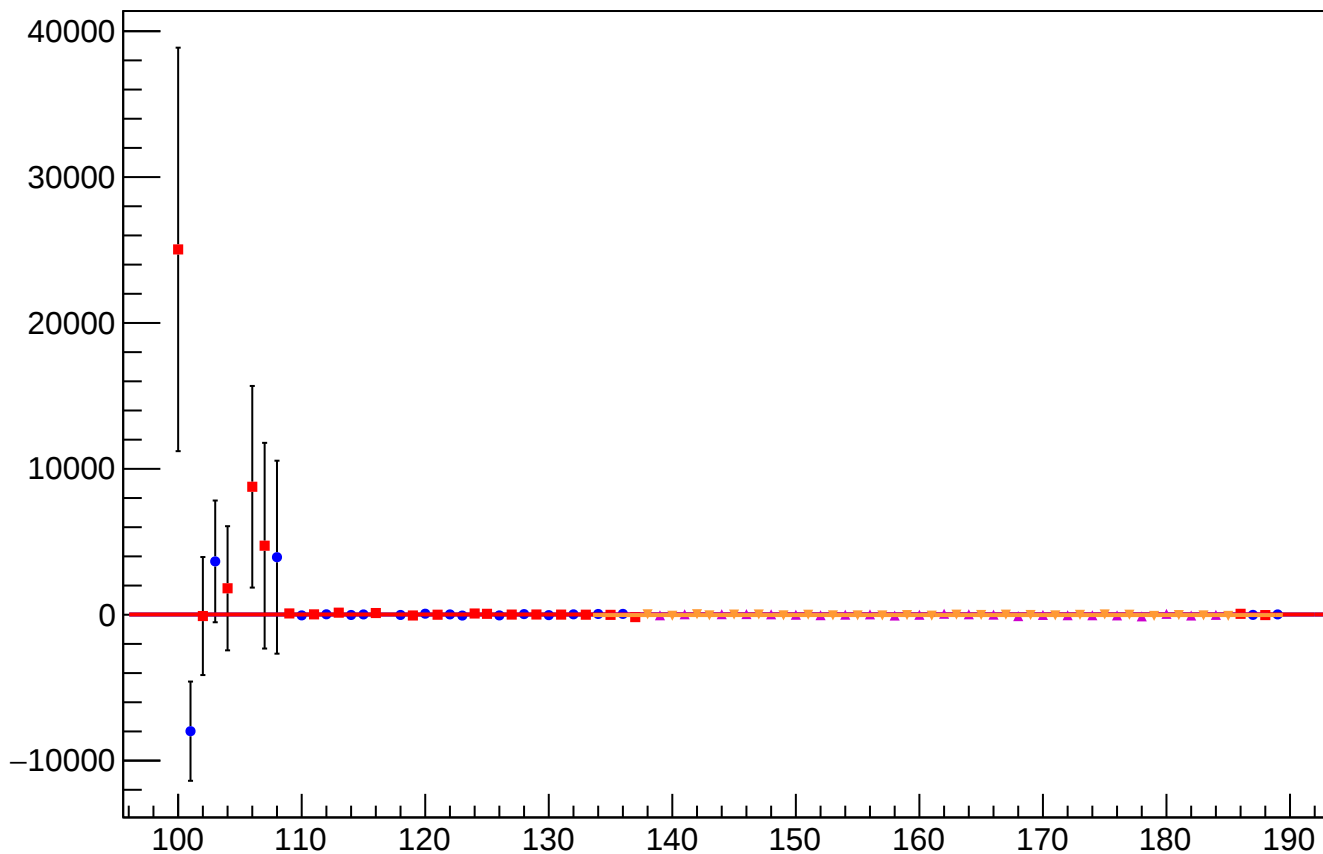
Right: 189.699+/-0.041 χ^2/NDF : 8297450.4/39

In: 188.265+/-0.029 χ^2/NDF : 5101369.6/41

Out: 196.185+/-0.029 χ^2/NDF : 6490874.3/45

All: 192.191+/-0.020 χ^2/NDF : 11629586.2/87

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: 18.311+/-12.334 χ^2/NDF : 29.7/20

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

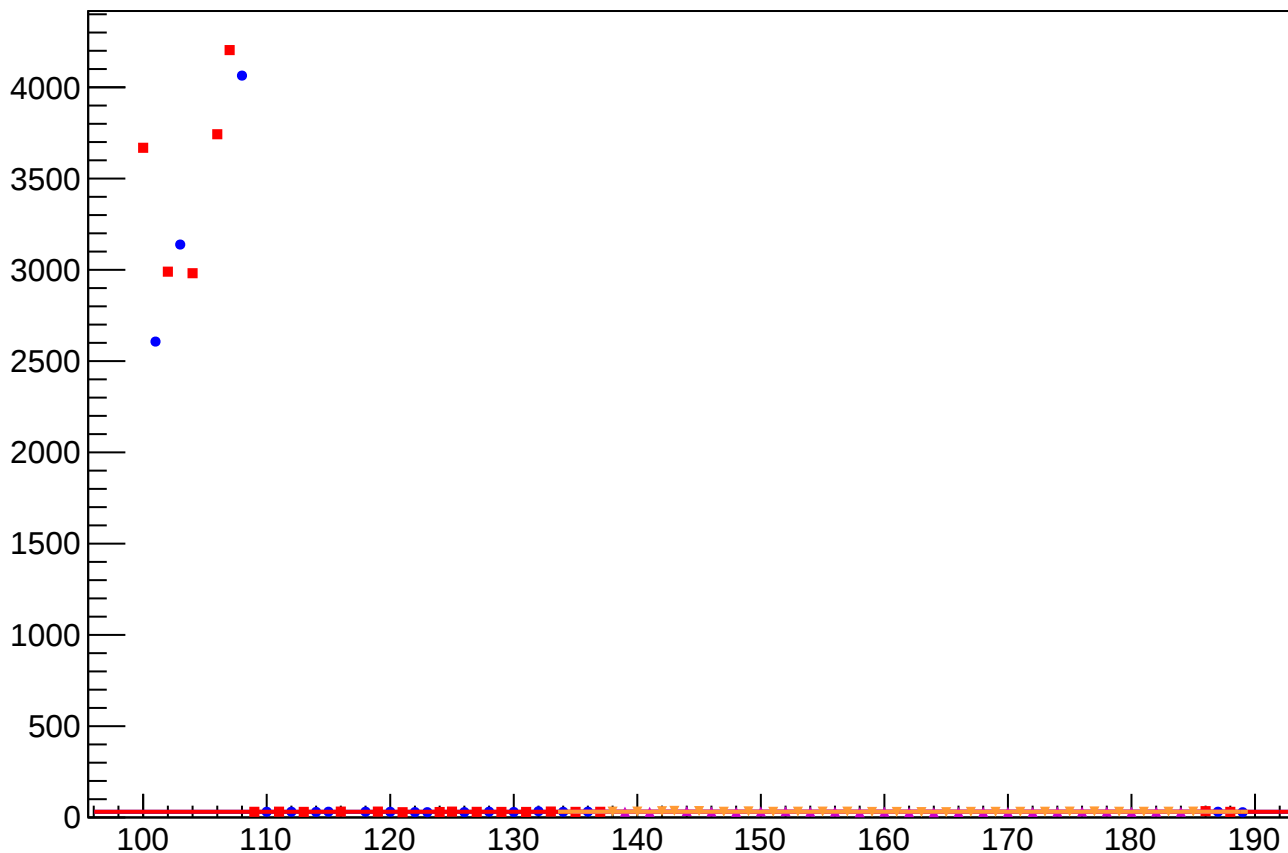
Right: 16.385+/-8.884 χ^2/NDF : 44.7/39

In: -1.021+/-6.521 χ^2/NDF :55.6/41

Out: -12.407+/-6.315 χ^2/NDF :56.4/45

All: -6.896+/-4.537 χ^2/NDF : 113.6/87

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.920+/-0.009 χ^2/NDF : 3020920.8/18

Left Out: 31.488+/-0.005 χ^2/NDF : 81938.2/24

Right Out: 31.113+/-0.009 χ^2/NDF : 3467085.1/20

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

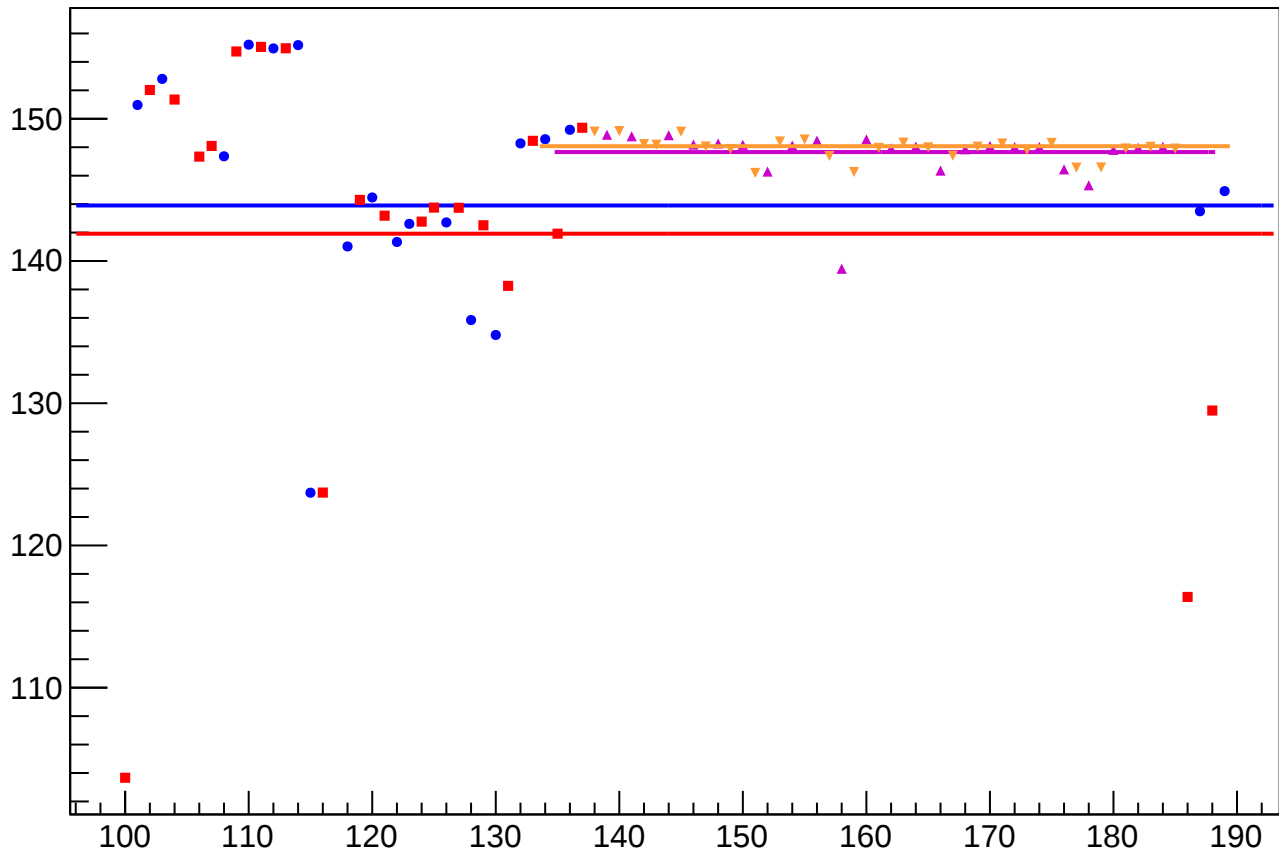
Right: 31.020+/-0.006 χ^2/NDF : 6488240.9/39

In: 31.332+/-0.005 χ^2/NDF : 3111500.0/41

Out: 31.390+/-0.004 χ^2/NDF : 3550389.5/45

All: 31.362+/-0.003 χ^2/NDF : 6661972.8/87

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: 141.919 $\pm$ 0.000 χ^2 /NDF: 7195879649.4/20

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

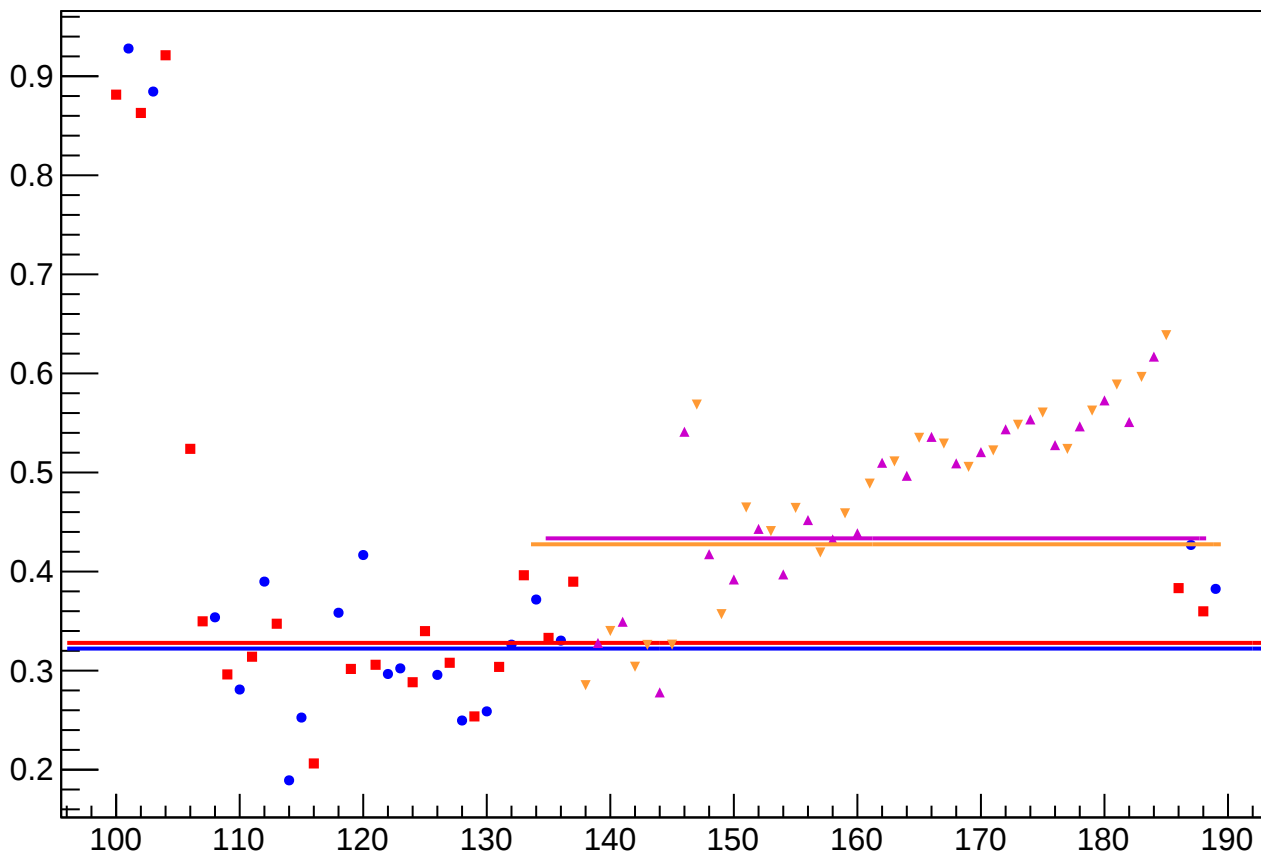
Right: 142.861 $\pm$ 0.000 χ^2 /NDF: 10769813531.5/39

In: 146.129 $\pm$ 0.000 χ^2 /NDF: 4289421296.2/41

Out: 145.525 $\pm$ 0.000 χ^2 /NDF: 8714147292.9/45

All: 145.814 $\pm$ 0.000 χ^2 /NDF: 13031161712.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.322 $\pm$ 0.000 χ^2 /NDF: 1314808.4/18

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.328 $\pm$ 0.000 χ^2 /NDF: 1248019.4/20

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

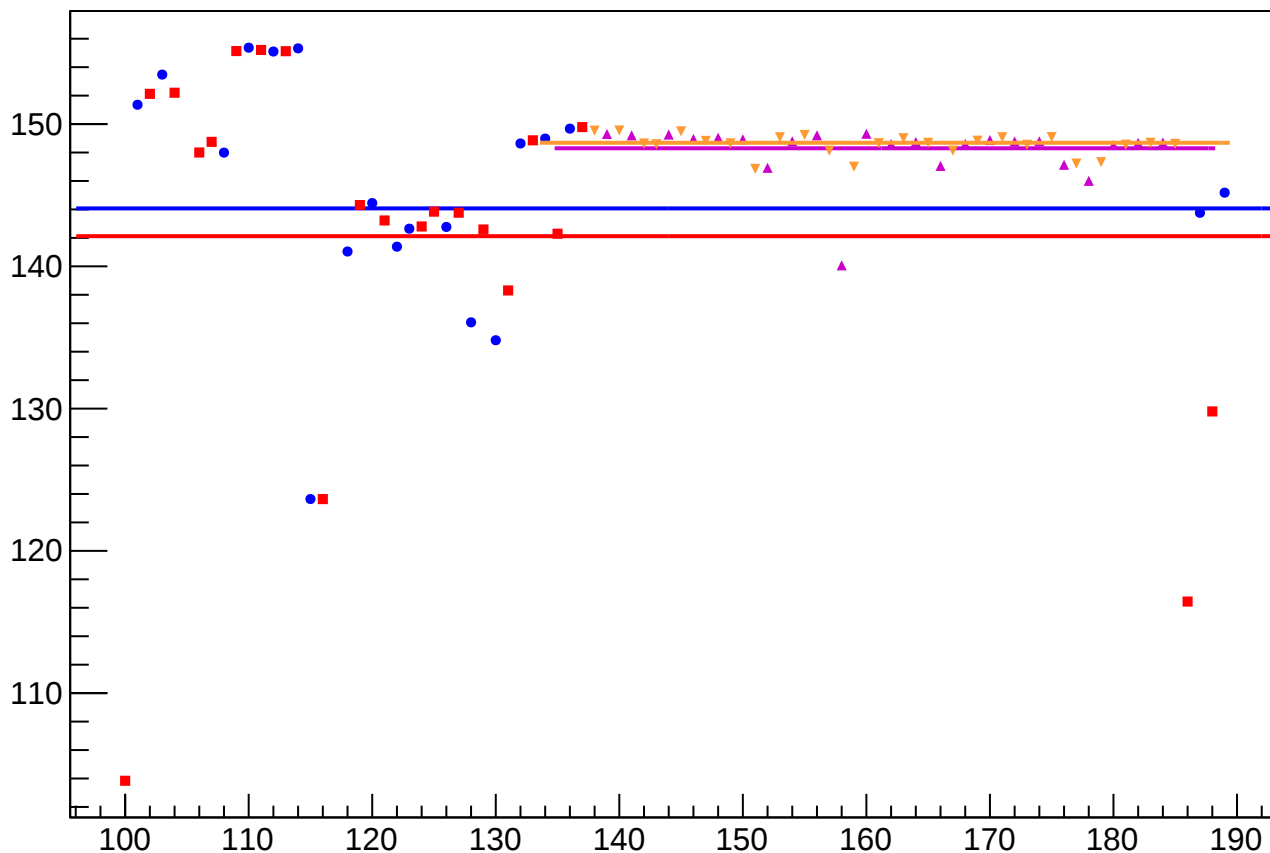
Right: 0.325 $\pm$ 0.000 χ^2 /NDF: 2564878.7/39

In: 0.388 $\pm$ 0.000 χ^2 /NDF:3660551.7/41

Out: 0.386 $\pm$ 0.000 χ^2 /NDF:3900560.6/45

All: 0.387 $\pm$ 0.000 χ^2 /NDF: 7561633.2/87

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.073+/-0.000 χ^2/NDF : 3496135490.2/18

Left Out: 148.687+/-0.000 χ^2/NDF : 52285197.5/24

Right Out: 142.120+/-0.000 χ^2/NDF : 7139264546.2/20

Left In: 148.298+/-0.000 χ^2/NDF : 332527463.6/22

Left: 148.500+/-0.000 χ^2/NDF : 391414535.1/47

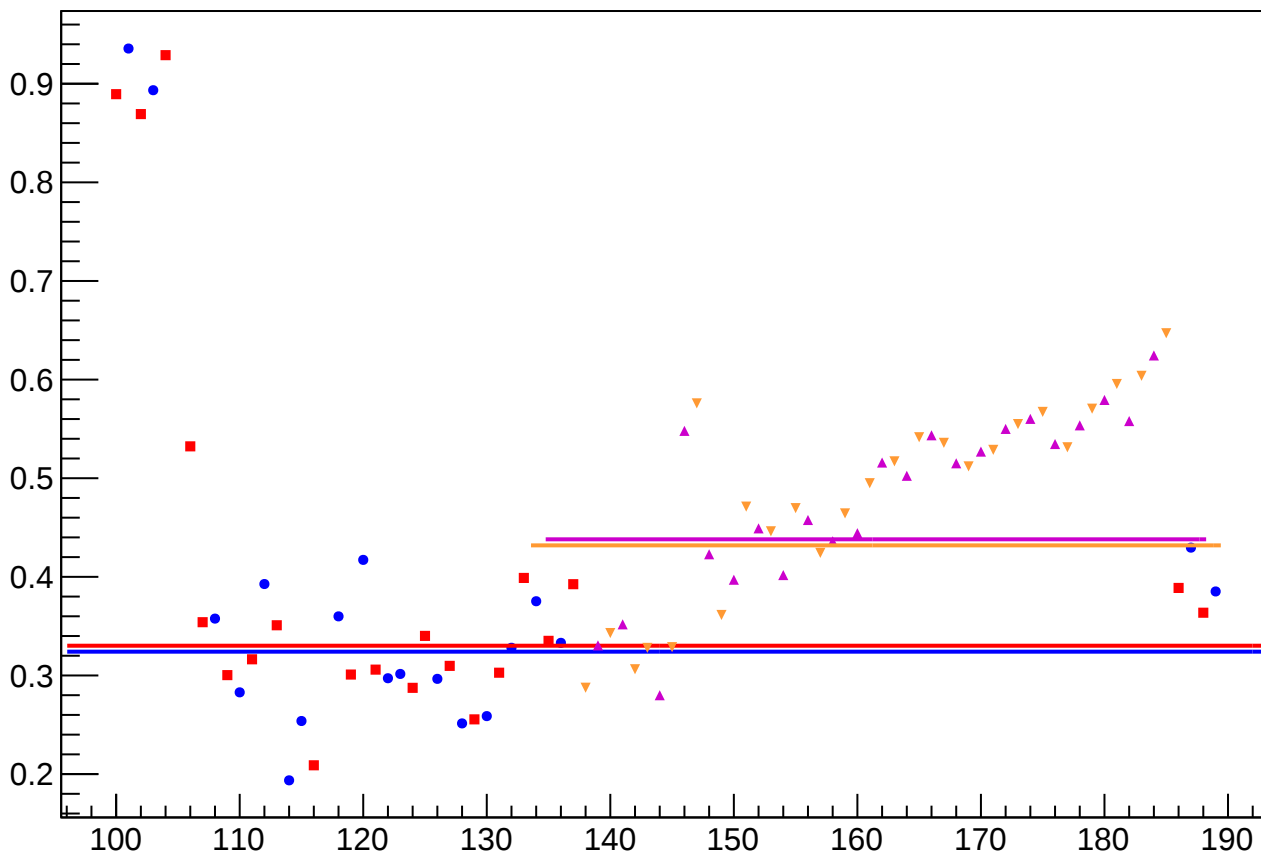
Right: 143.047+/-0.000 χ^2/NDF : 10752296695.0/39

In: 146.565+/-0.000 χ^2/NDF : 4443652763.9/41

Out: 145.955+/-0.000 χ^2/NDF : 8817880923.4/45

All: 146.247+/-0.000 χ^2/NDF : 13289218974.0/94

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.324 $\pm$ 0.000 χ^2/NDF : 1316734.7/18

Left Out: 0.432 $\pm$ 0.000 χ^2/NDF : 1924979.0/24

Right Out: 0.330 $\pm$ 0.000 χ^2/NDF : 1253119.6/20

Left In: 0.438 $\pm$ 0.000 χ^2/NDF : 1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2/NDF : 3432903.3/47

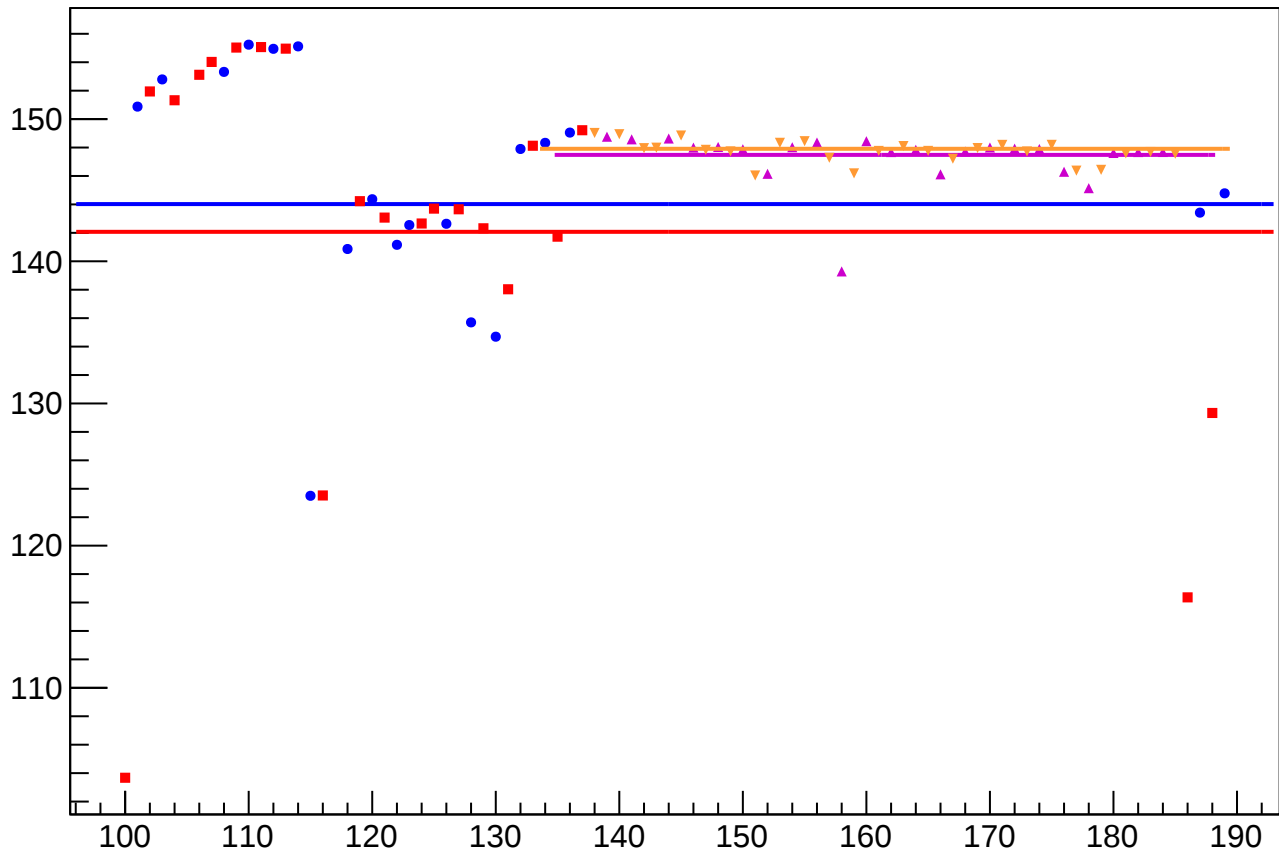
Right: 0.327 $\pm$ 0.000 χ^2/NDF : 2572091.7/39

In: 0.391 $\pm$ 0.000 χ^2/NDF : 3715606.3/41

Out: 0.390 $\pm$ 0.000 χ^2/NDF : 3958946.9/45

All: 0.390 $\pm$ 0.000 χ^2/NDF : 7675013.6/87

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.023 $\pm$ 0.000 χ^2 /NDF: 3663828825.1/18

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.072 $\pm$ 0.000 χ^2 /NDF: 7589904699.9/20

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

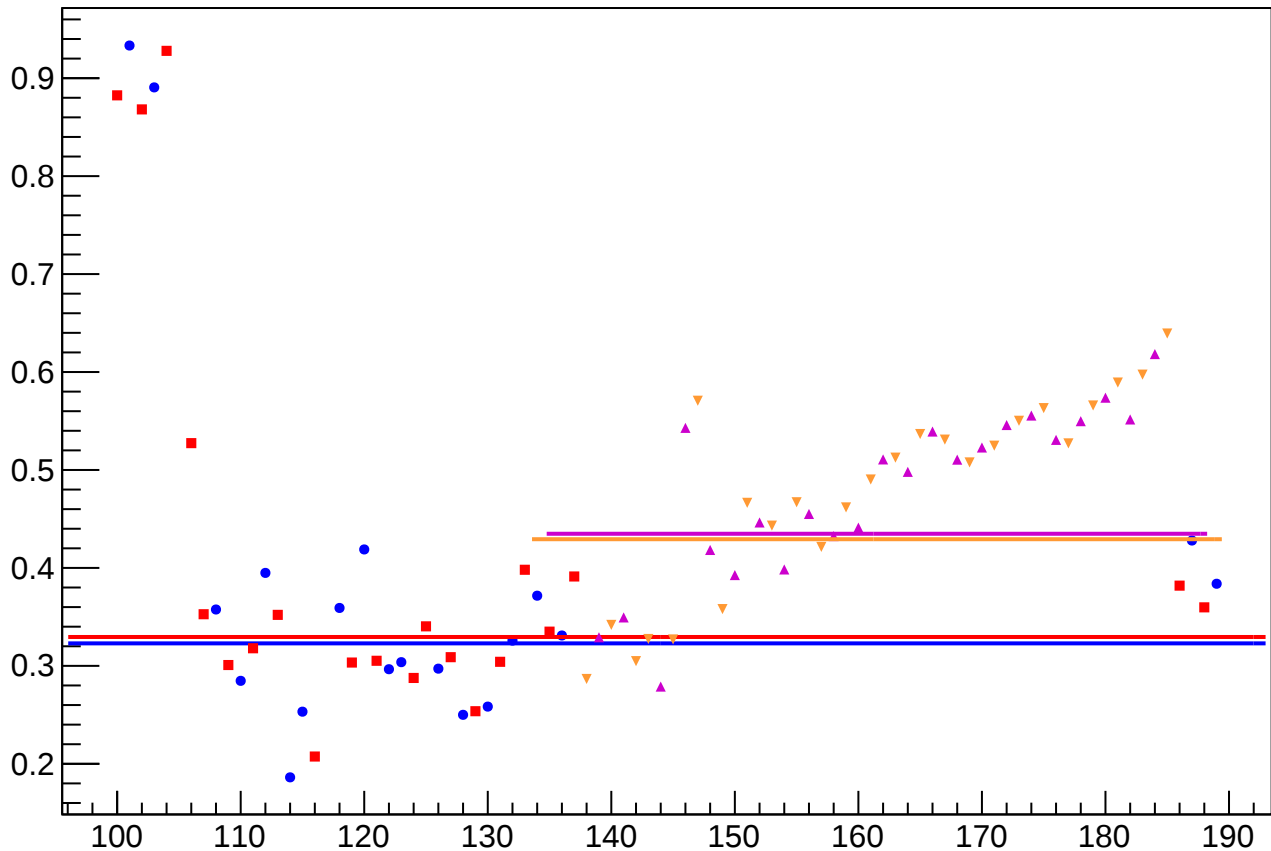
Right: 142.999 $\pm$ 0.000 χ^2 /NDF: 11371055965.5/39

In: 146.073 $\pm$ 0.000 χ^2 /NDF: 4422967171.3/41

Out: 145.494 $\pm$ 0.000 χ^2 /NDF: 8951092878.3/45

All: 145.771 $\pm$ 0.000 χ^2 /NDF: 13399153667.0

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: 0.329+/-0.000 χ^2/NDF : 1249792.7/20

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

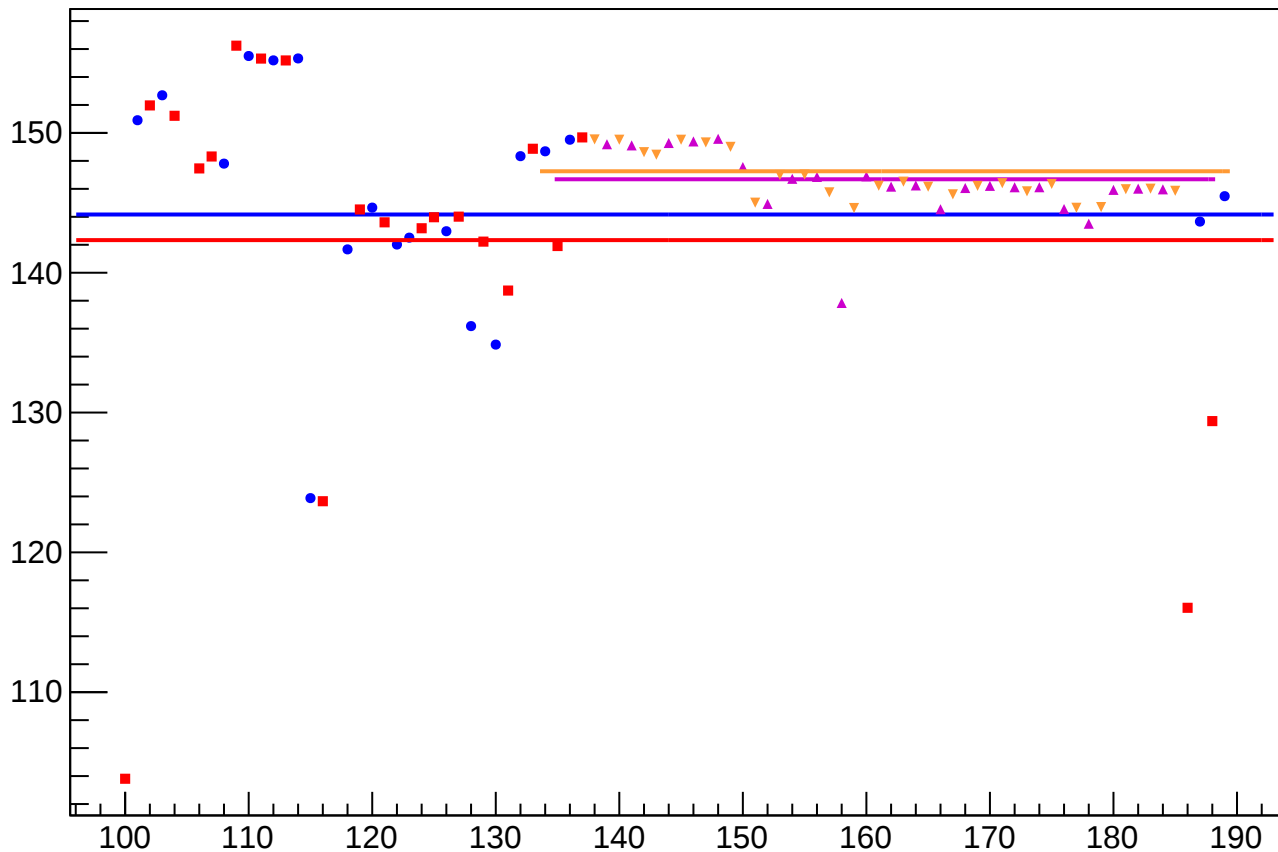
Right: 0.326+/-0.000 χ^2/NDF : 2582310.6/39

In: 0.389+/-0.000 χ^2/NDF :3686993.4/41

Out: 0.388+/-0.000 χ^2/NDF :3899140.8/45

All: 0.389+/-0.000 χ^2/NDF : 7586376.3/87

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.165 $\pm$ 0.000 χ^2/NDF : 3165256558.6/18

Left Out: 147.257 $\pm$ 0.000 χ^2/NDF : 261906278.3/24

Right Out: 142.333 $\pm$ 0.000 χ^2/NDF : 6899087752.4/20

Left In: 146.685 $\pm$ 0.000 χ^2/NDF : 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2/NDF : 830580031.2/47

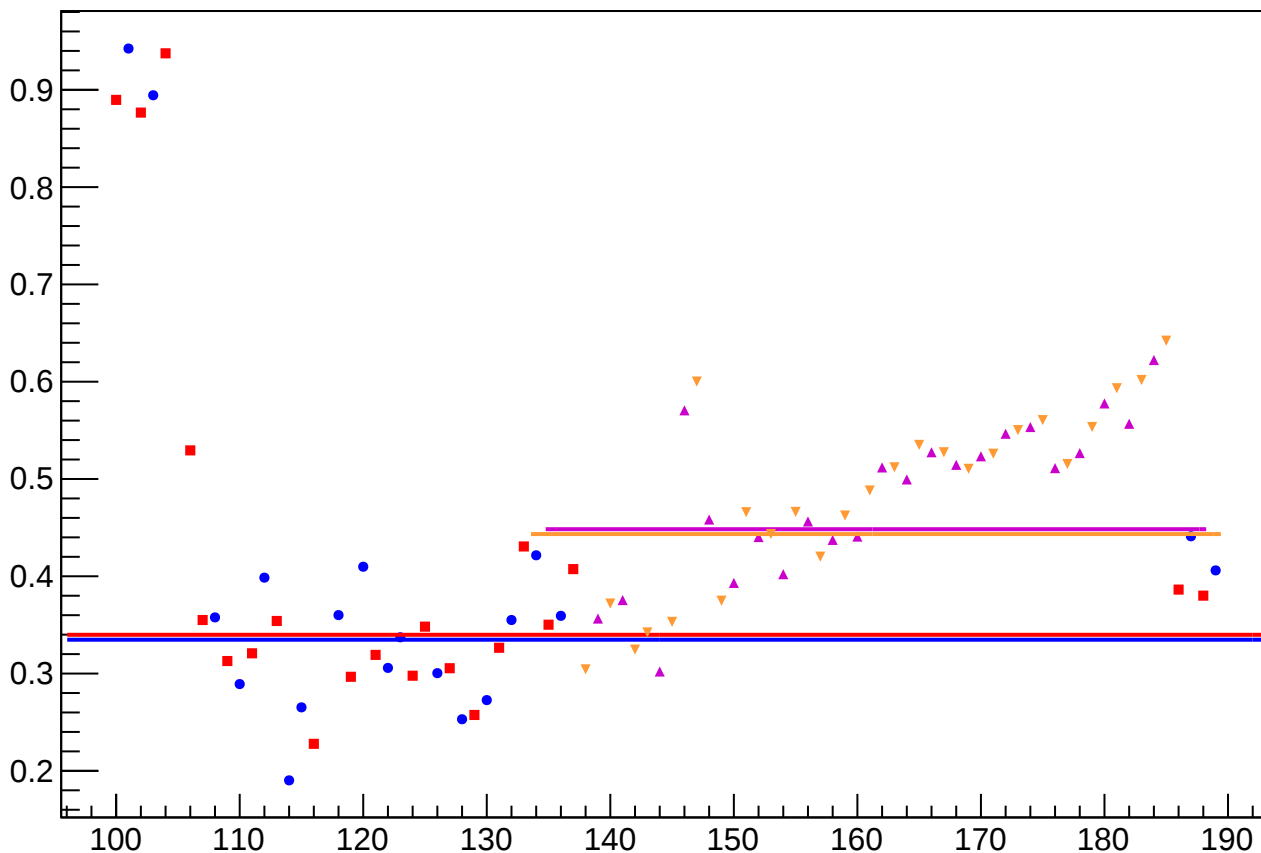
Right: 143.199 $\pm$ 0.000 χ^2/NDF : 10160793621.7/39

In: 145.672 $\pm$ 0.000 χ^2/NDF : 3926988798.4/41

Out: 145.230 $\pm$ 0.000 χ^2/NDF : 8028848921.9/45

All: 145.442 $\pm$ 0.000 χ^2/NDF : 11969680956.0/44

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: 0.340 $\pm$ 0.000 χ^2 /NDF: 1213051.1/20

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

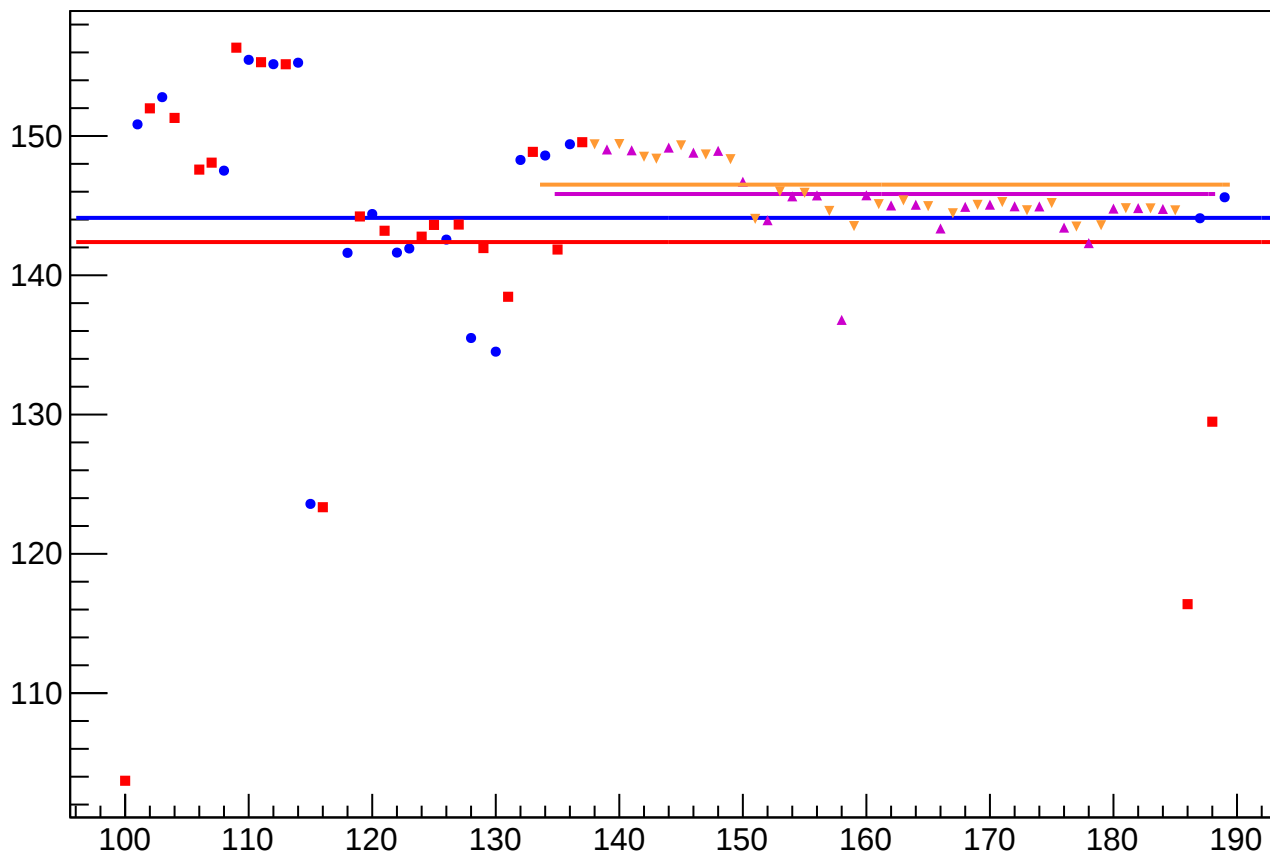
Right: 0.337 $\pm$ 0.000 χ^2 /NDF: 2531160.6/39

In: 0.403 $\pm$ 0.000 χ^2 /NDF:3277554.9/41

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:3460813.4/45

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 6738924.7/87

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: 142.385+/-0.000 χ^2/NDF : 6880912659.2/20

Left In: 145.834+/-0.000 χ^2/NDF : 690172810.0/22

Left: 146.184+/-0.000 χ^2/NDF : 1110403123.5/47

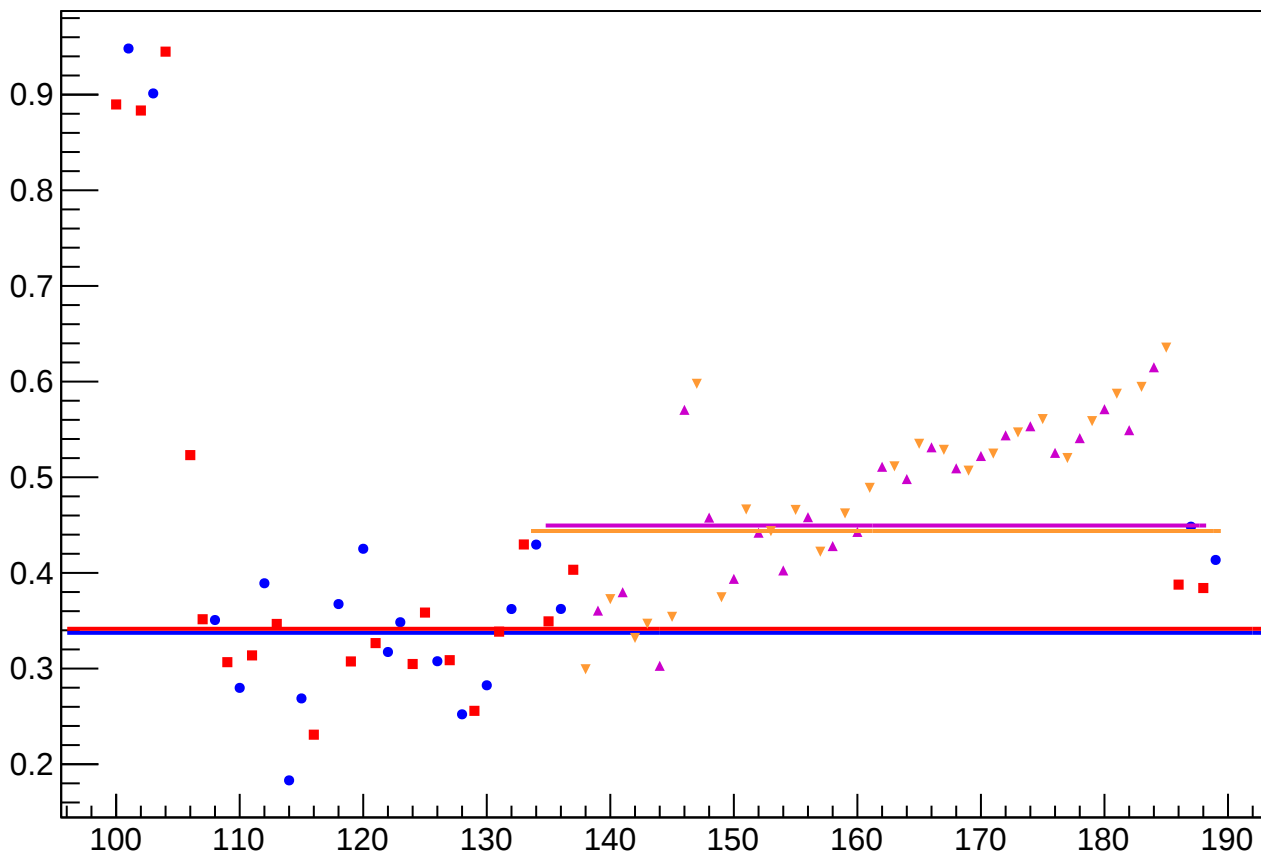
Right: 143.202+/-0.000 χ^2/NDF : 10251517189.0/39

In: 145.152+/-0.000 χ^2/NDF : 4069873044.0/41

Out: 144.820+/-0.000 χ^2/NDF : 7885861978.9/45

All: 144.978+/-0.000 χ^2/NDF : 11963429155.0/100

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: 0.342 $\pm$ 0.000 χ^2/NDF : 1204342.4/20

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

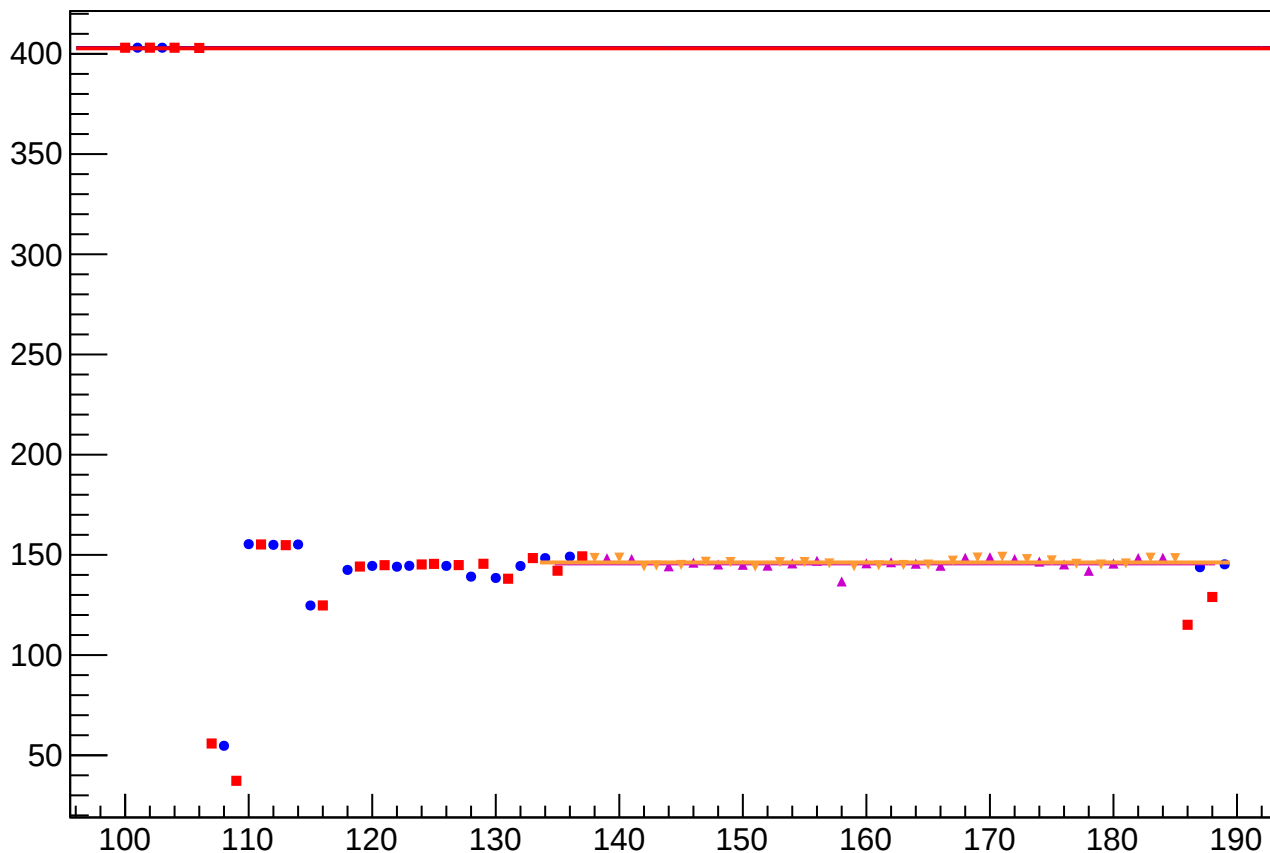
Right: 0.340 $\pm$ 0.000 χ^2/NDF : 2543150.5/39

In: 0.405 $\pm$ 0.000 χ^2/NDF :3239041.4/41

Out: 0.402 $\pm$ 0.000 χ^2/NDF :3406789.5/45

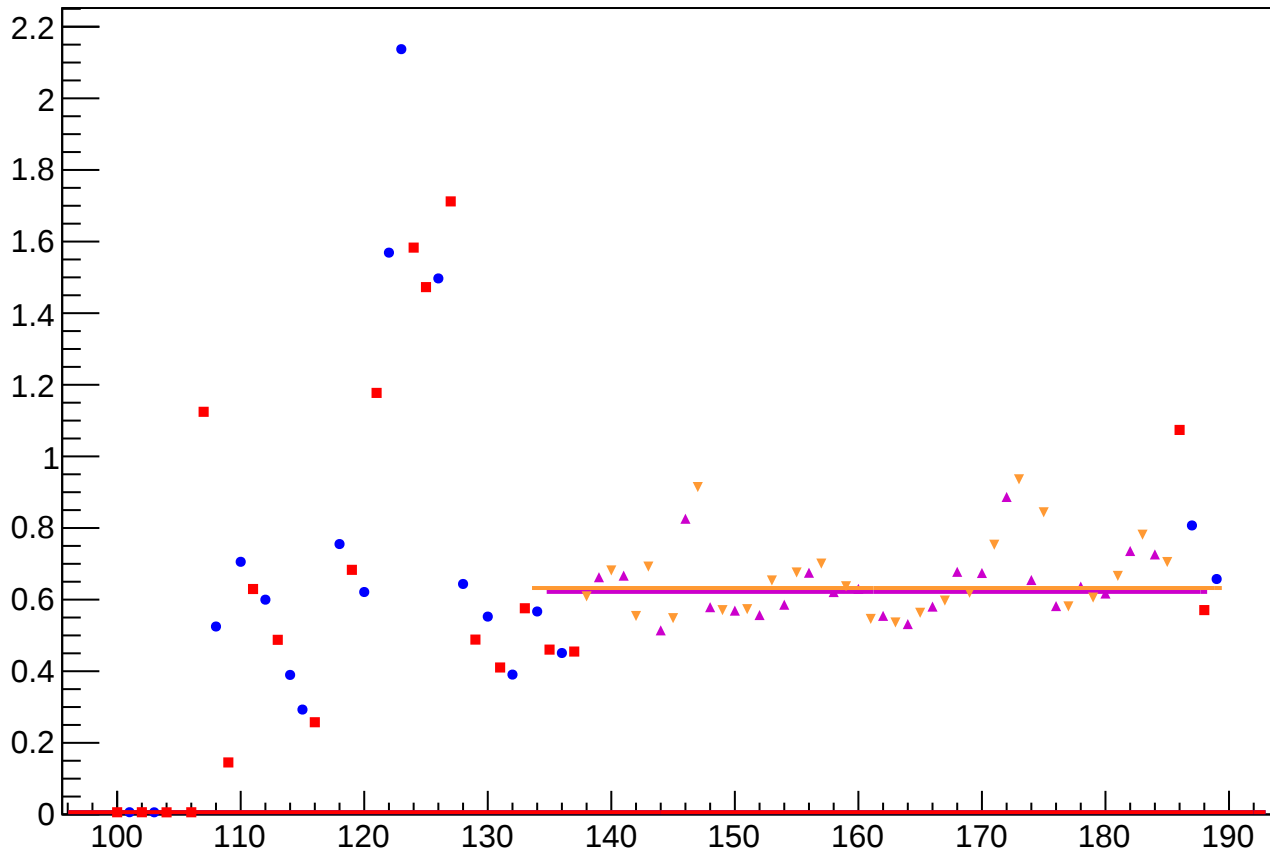
All: 0.403 $\pm$ 0.000 χ^2/NDF : 6647000.3/87

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: 402.858+/-0.000	χ^2/NDF : 4465427865920.2/18
Right Out: 402.778+/-0.000	χ^2/NDF : 3300455583484.2/20	In: 402.658+/-0.000	χ^2/NDF : 3496608119524.9/47
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.518+/-0.000	χ^2/NDF : 5658776277810.3/47
		All: 402.583+/-0.000	χ^2/NDF : 915570933234.0/18

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 10055779.7/18

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 11264639.7/20

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:399965.3/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1017722.4/47

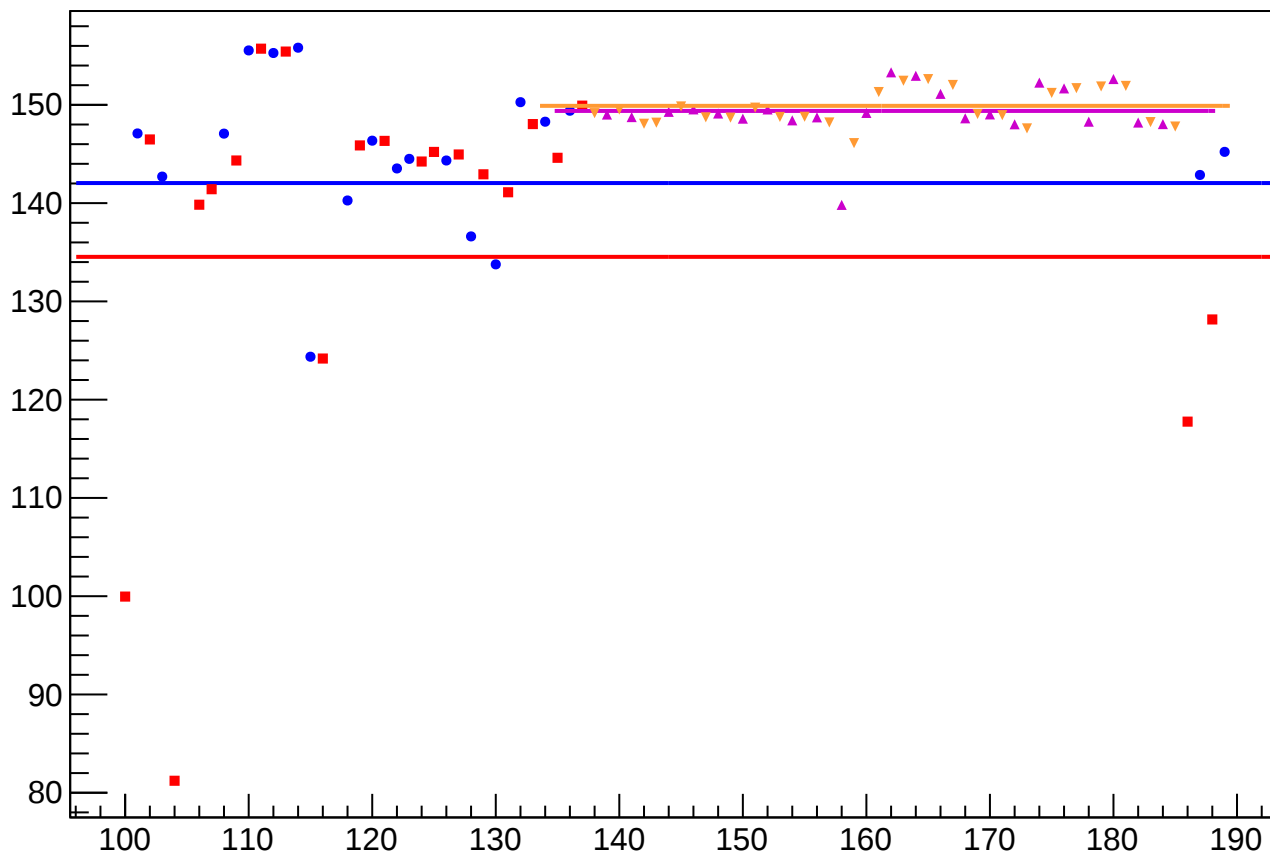
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 21320424.2/39

In: 0.007 $\pm$ 0.000 χ^2 /NDF:37143672.1/41

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:39960312.7/45

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 77104061.7/87

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 142.043 $\pm$ 0.000

χ^2/NDF : 992710458.8/18

Left: 149.650 $\pm$ 0.000

χ^2/NDF : 604081739.6/47

Left Out: 149.900 $\pm$ 0.000

χ^2/NDF : 162845622.6/24

Right: 137.867 $\pm$ 0.000

χ^2/NDF : 3079963354.8/39

Right Out: 134.532 $\pm$ 0.000

χ^2/NDF : 1725852668.1/20

In: 147.944 $\pm$ 0.000

χ^2/NDF : 1926377079.7/41

Out: 146.497 $\pm$ 0.000

χ^2/NDF : 4542122255.4/45

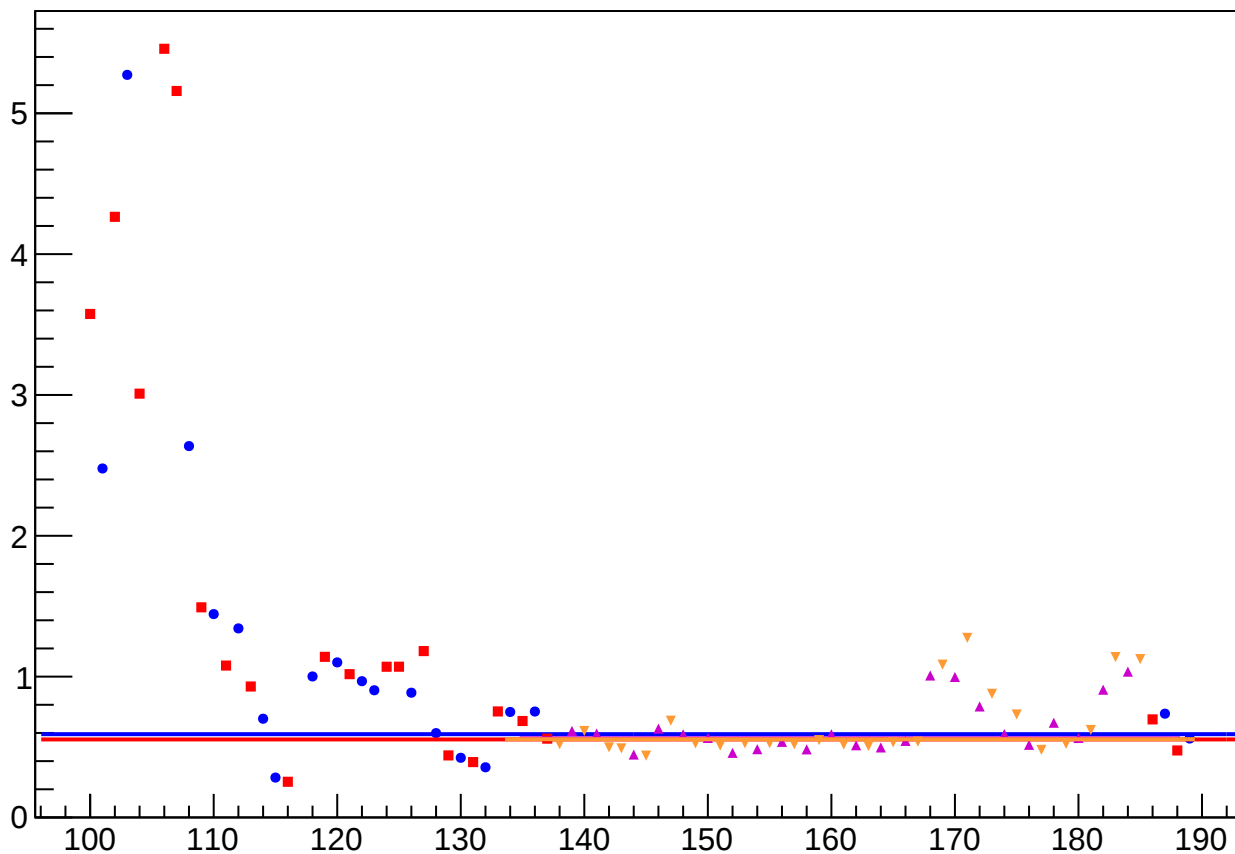
Left In: 149.382 $\pm$ 0.000

χ^2/NDF : 434657827.5/22

All: 147.183 $\pm$ 0.000

χ^2/NDF : 6533160066.2

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: 0.554+/-0.000 χ^2/NDF : 4716585.3/20

Left In: 0.562+/-0.000 χ^2/NDF :1305573.4/22

Left: 0.559+/-0.000 χ^2/NDF : 3081194.0/47

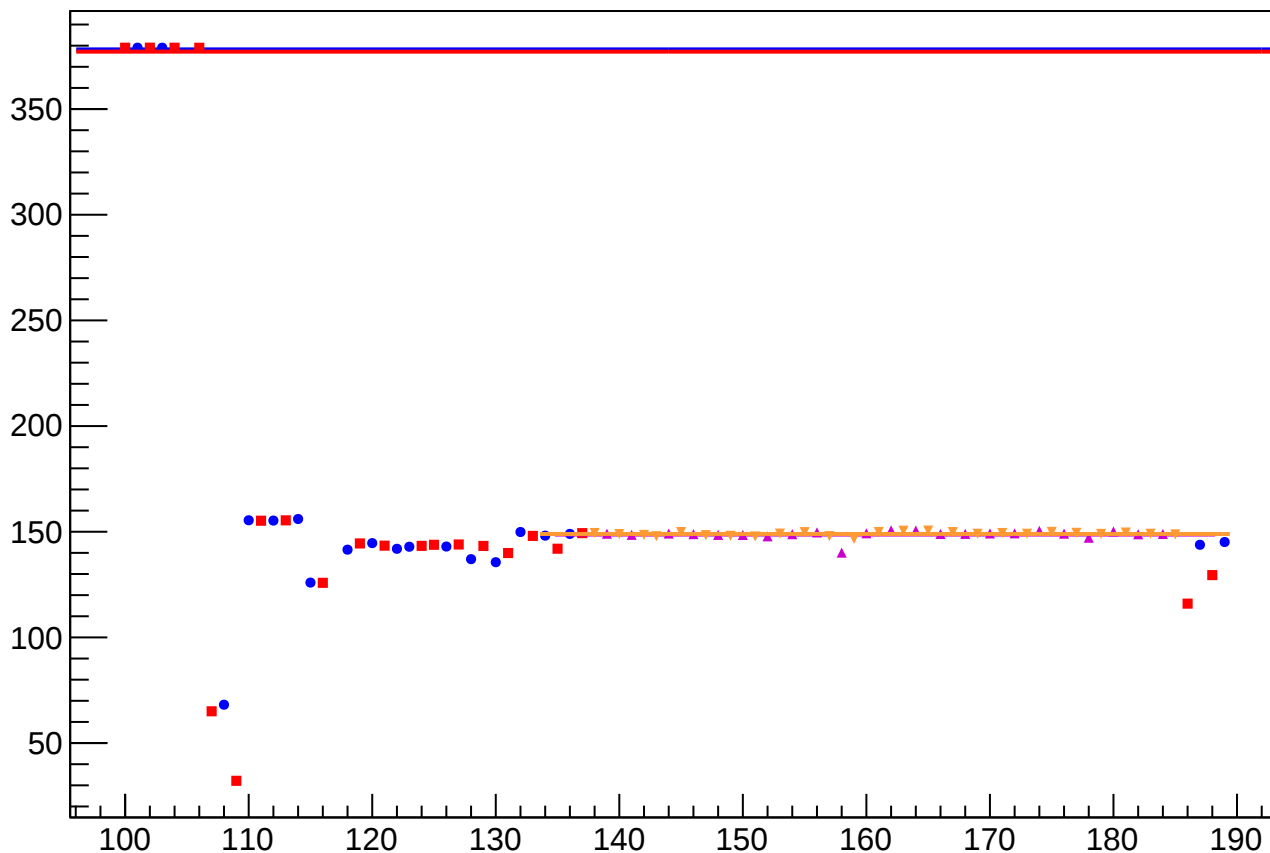
Right: 0.571+/-0.000 χ^2/NDF : 8265356.3/39

In: 0.568+/-0.000 χ^2/NDF :4852681.7/41

Out: 0.555+/-0.000 χ^2/NDF :6490323.2/45

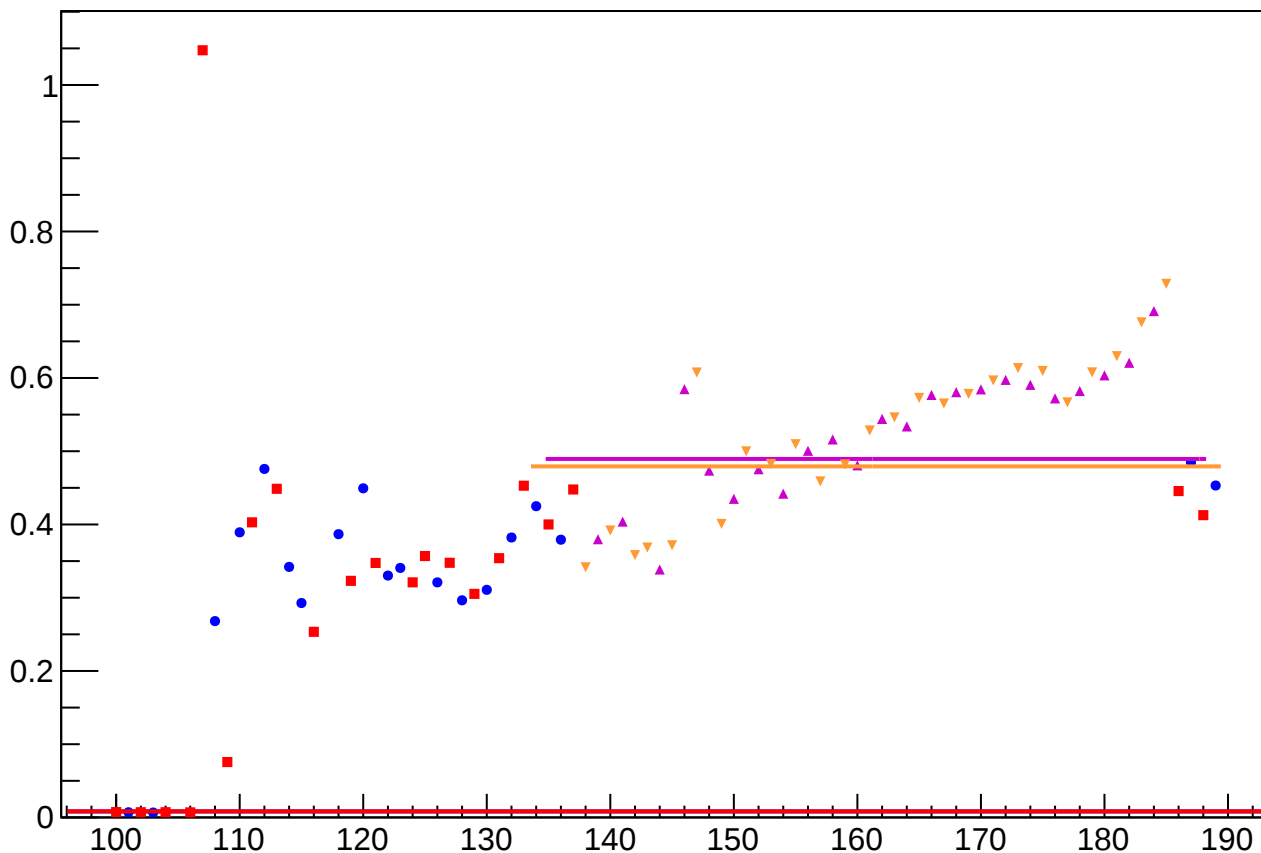
All: 0.561+/-0.000 χ^2/NDF : 11352529.6/87

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.239+/-0.000	χ^2/NDF : 2643167195669.4/18	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.674+/-0.000	χ^2/NDF : 11356911069626.8
Right Out: 377.178+/-0.000	χ^2/NDF : 8705750922454.0/20	In: 377.066+/-0.000	χ^2/NDF : 6229548241657.6/41
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 376.061+/-0.000	χ^2/NDF : 12578057281076.4
		All: 376.530+/-0.000	χ^2/NDF : 188148145496.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 10972410.0/18

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 11810799.1/20

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

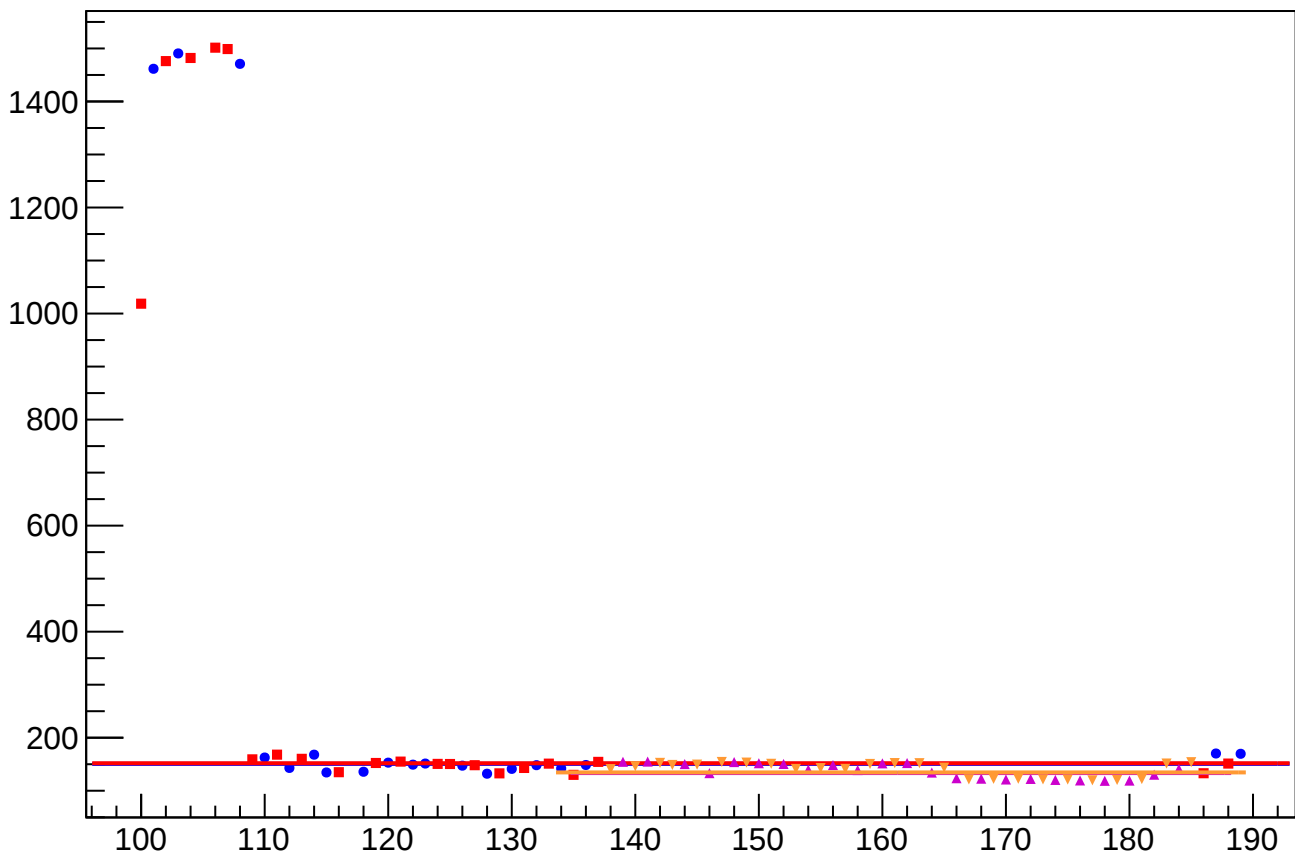
Right: 0.008+/-0.000 χ^2/NDF : 22783392.9/39

In: 0.011+/-0.000 χ^2/NDF :43568318.7/41

Out: 0.011+/-0.000 χ^2/NDF :46305916.5/45

All: 0.011+/-0.000 χ^2/NDF : 89874258.1/87

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 150.641+/-0.000 χ^2/NDF : 24818171492.3/18

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 151.840+/-0.000 χ^2/NDF : 33960098357.9/20

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

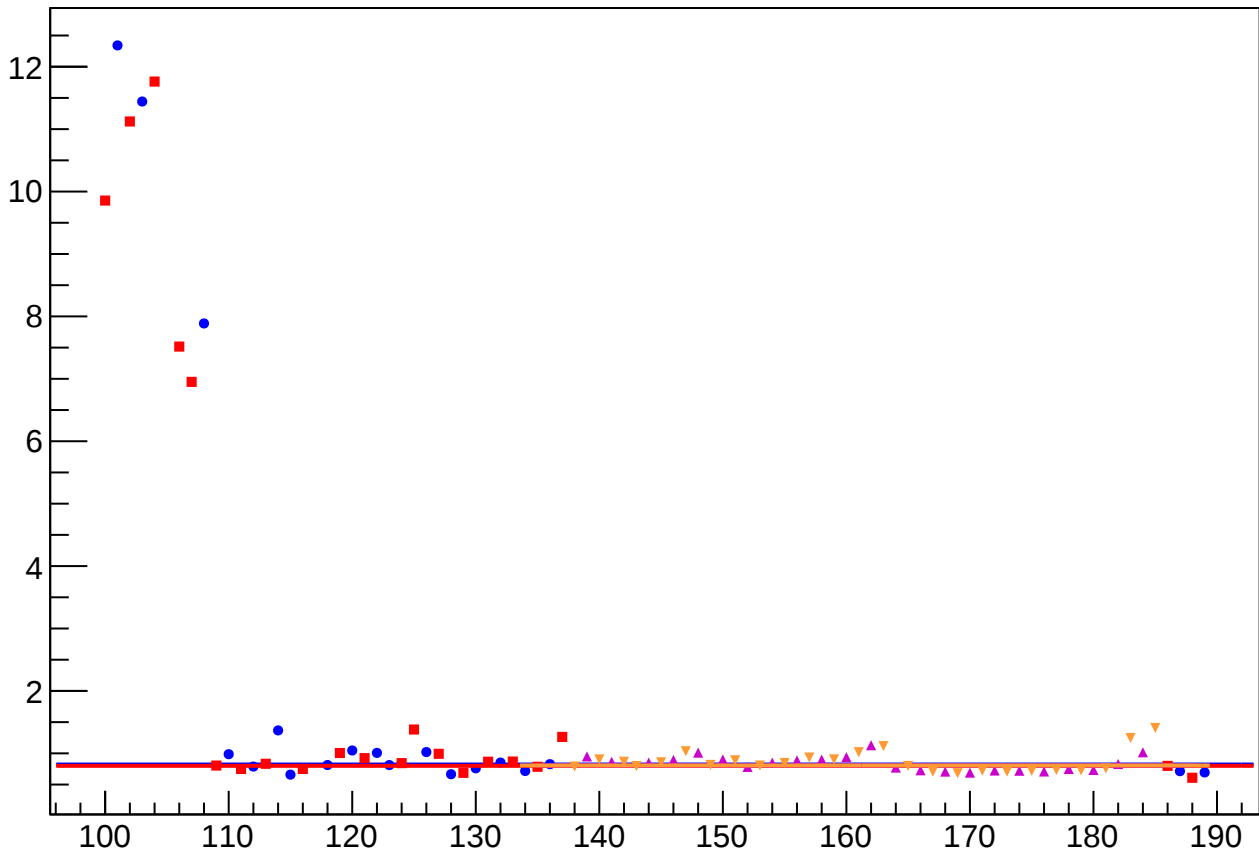
Right: 151.301+/-0.000 χ^2/NDF : 58783331981.2/39

In: 137.138+/-0.000 χ^2/NDF : 30617443817.2/41

Out: 138.848+/-0.000 χ^2/NDF : 40097228233.2/45

All: 138.027+/-0.000 χ^2/NDF : 70758970071.0

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: 0.800+/-0.000 χ^2/NDF : 3041970.5/20

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1171131.4/47

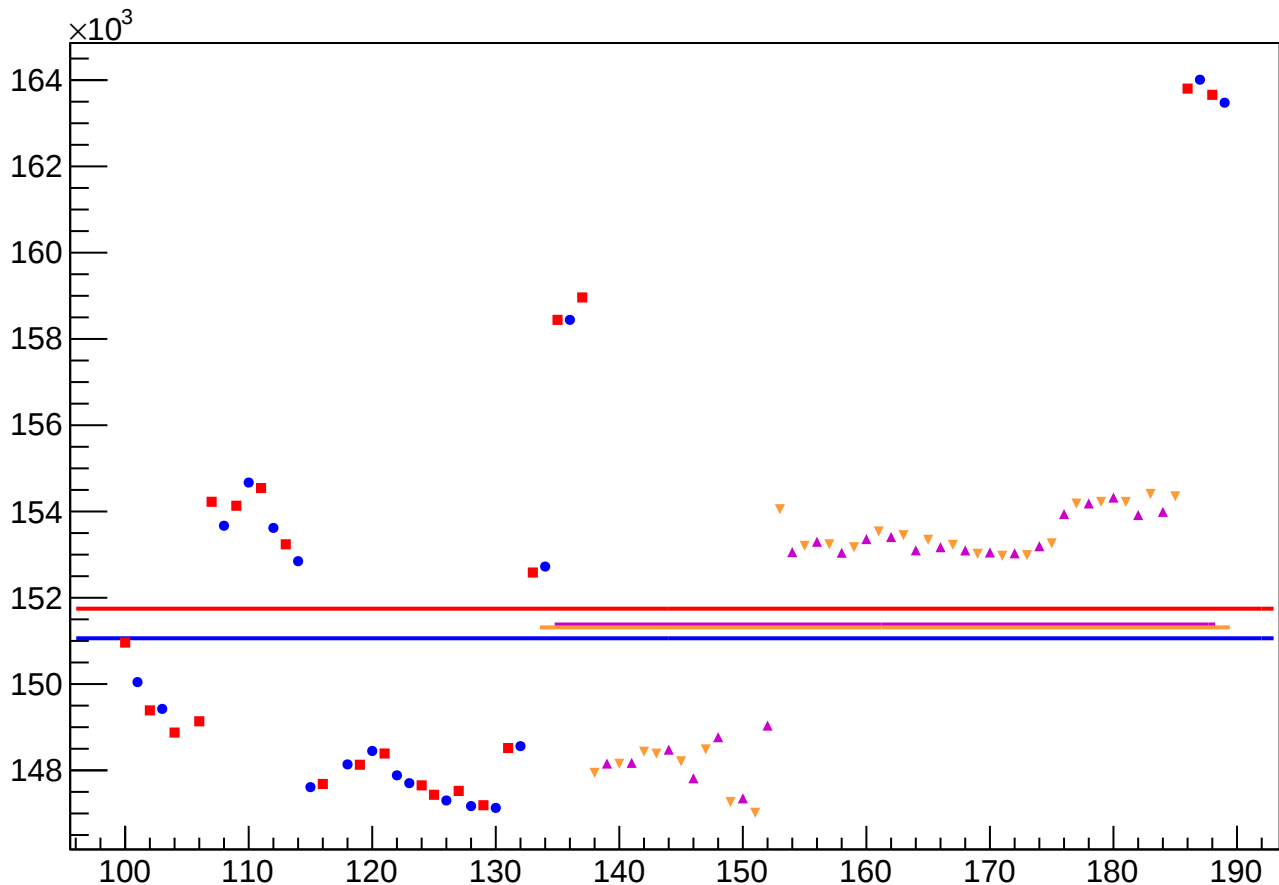
Right: 0.809+/-0.000 χ^2/NDF : 5742616.3/39

In: 0.808+/-0.000 χ^2/NDF : 3180714.0/41

Out: 0.805+/-0.000 χ^2/NDF : 3732972.7/45

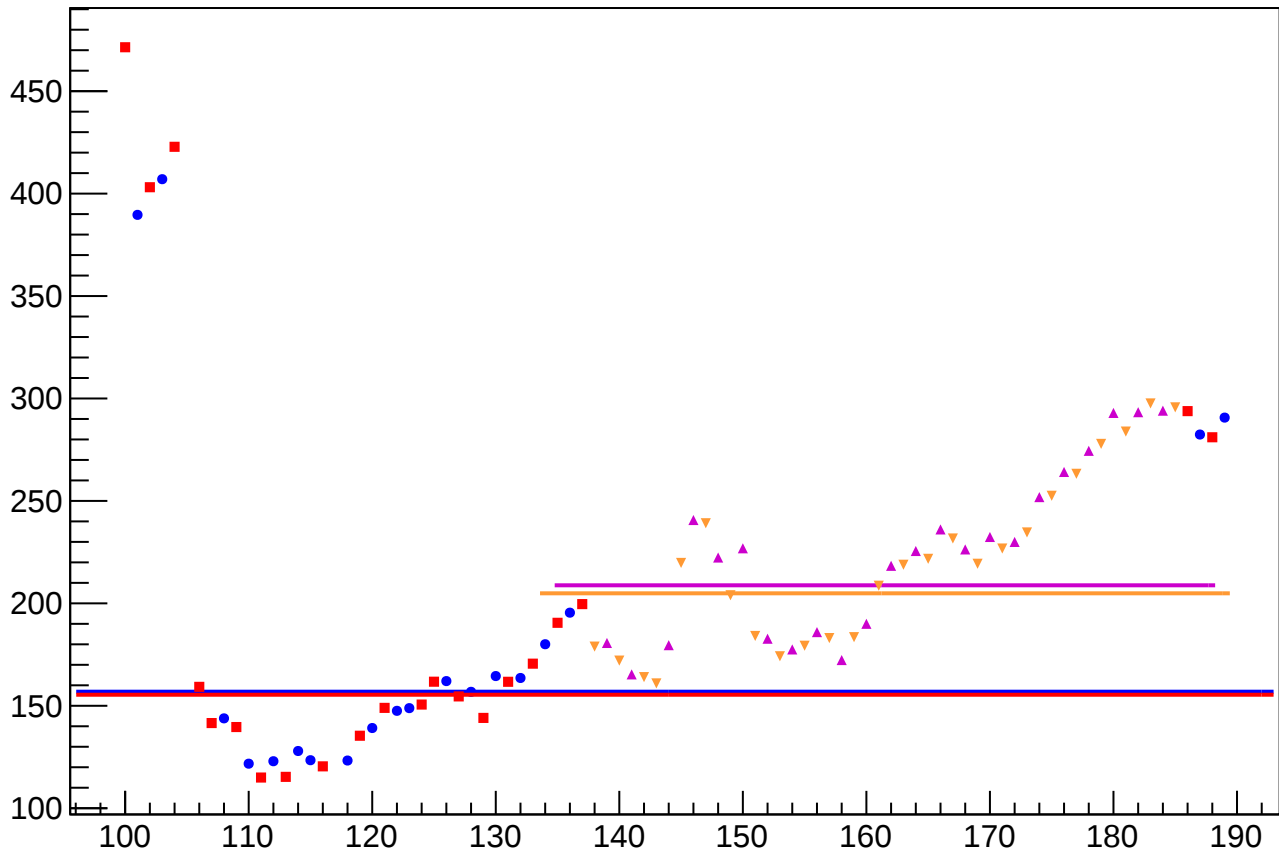
All: 0.806+/-0.000 χ^2/NDF : 6914100.0/87

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: 151427.149 $\pm$ 0.042	χ^2 /NDF: 10227097027.5/4
Right Out: 151747.421 $\pm$ 0.058	χ^2 /NDF: 5636451997.0/20	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: 151492.269 $\pm$ 0.037	χ^2 /NDF: 8823004626.5/4
		All: 151378.598 $\pm$ 0.027	χ^2 /NDF: 157478693

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: 155.397 $\pm$ 0.041 χ^2 /NDF: 1737367.2/20

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

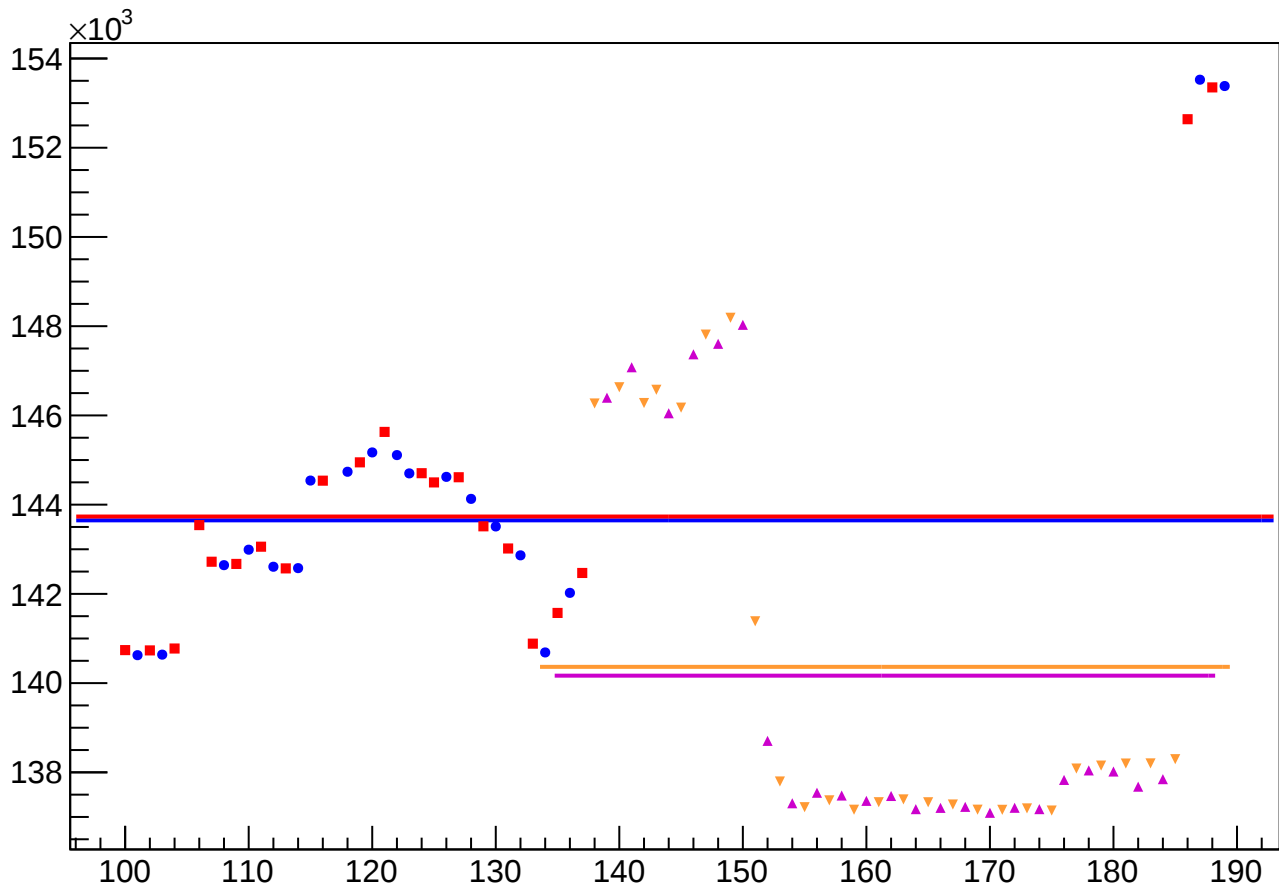
Right: 156.088 $\pm$ 0.030 χ^2 /NDF: 3162655.7/39

In: 187.828 $\pm$ 0.028 χ^2 /NDF:3258433.7/41

Out: 184.491 $\pm$ 0.026 χ^2 /NDF:3646258.7/45

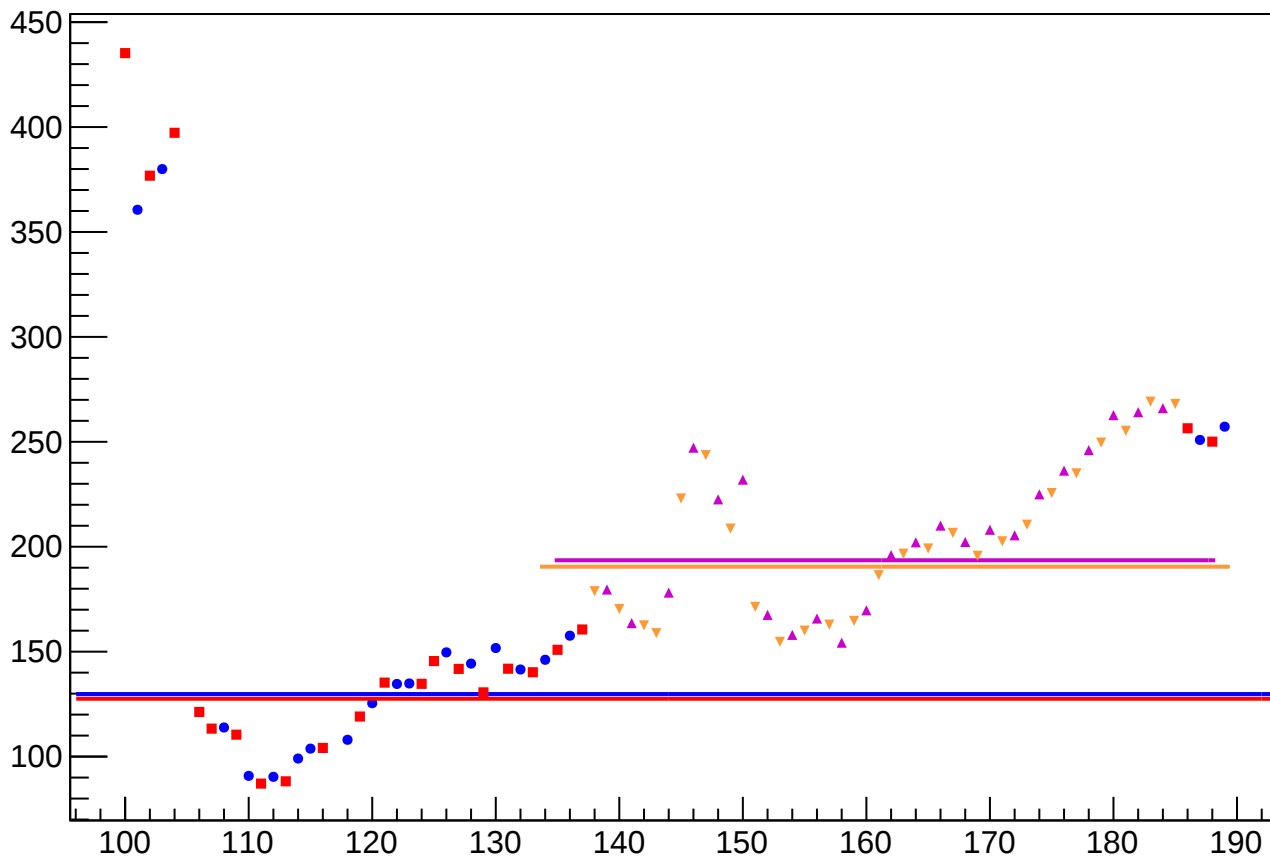
All: 186.064 $\pm$ 0.019 χ^2 /NDF: 6912231.0/87

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143648.150+/-0.052	χ^2/NDF : 1464786608.6/18	Left: 140270.460+/-0.033	χ^2/NDF : 16714620354.4
Left Out: 140364.444+/-0.045	χ^2/NDF : 8677078677.7/24	Right: 143694.524+/-0.035	χ^2/NDF : 3914822382.4
Right Out: 143733.853+/-0.048	χ^2/NDF : 2448571513.9/20	In: 141745.328+/-0.035	χ^2/NDF : 11933702587.3/4
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 141949.433+/-0.033	χ^2/NDF : 13737551506.0
		All: 141853.900+/-0.024	χ^2/NDF : 256892609

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: 127.571+/-0.034 χ^2/NDF : 2100950.9/20

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

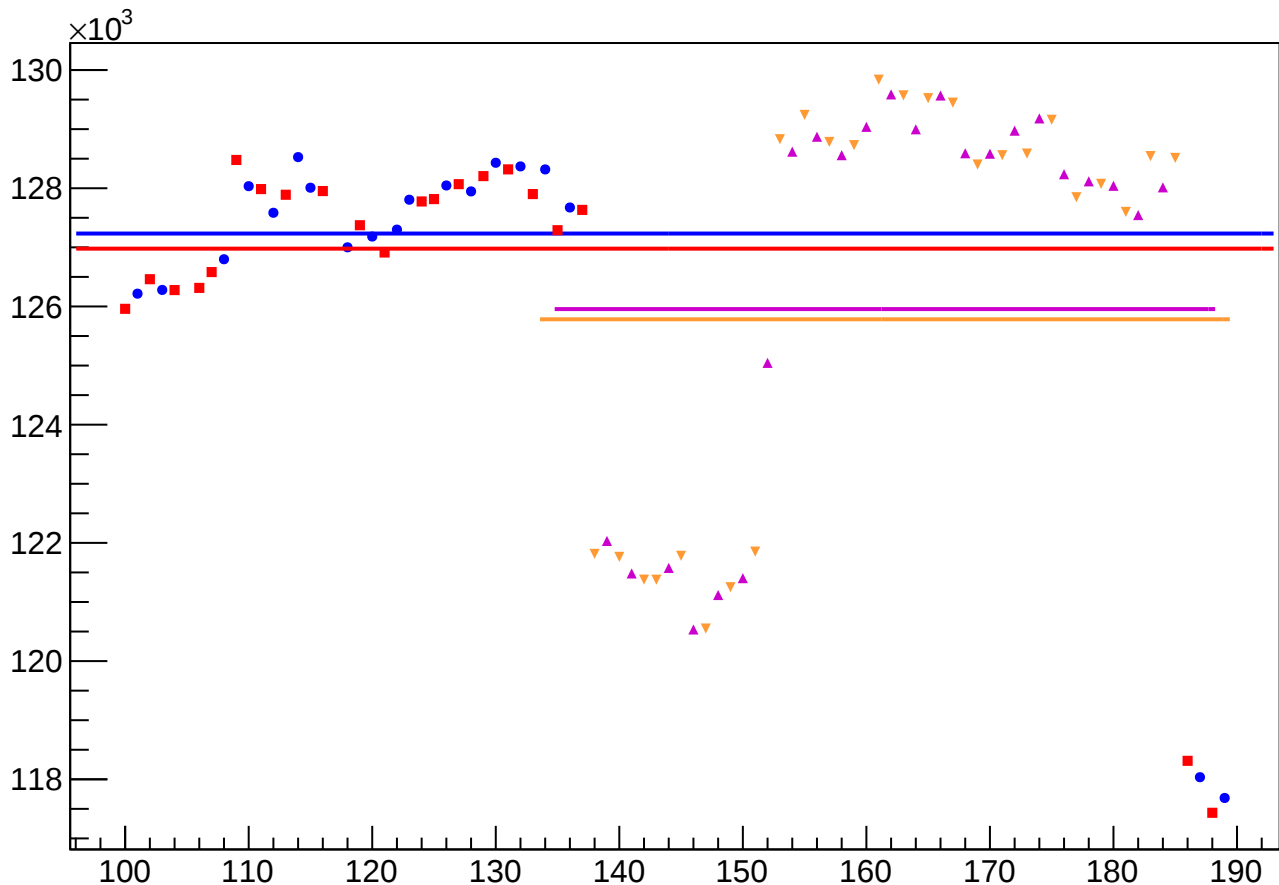
Right: 128.597+/-0.025 χ^2/NDF : 3858542.4/39

In: 164.653+/-0.025 χ^2/NDF : 4356220.1/41

Out: 160.890+/-0.023 χ^2/NDF : 4872501.7/45

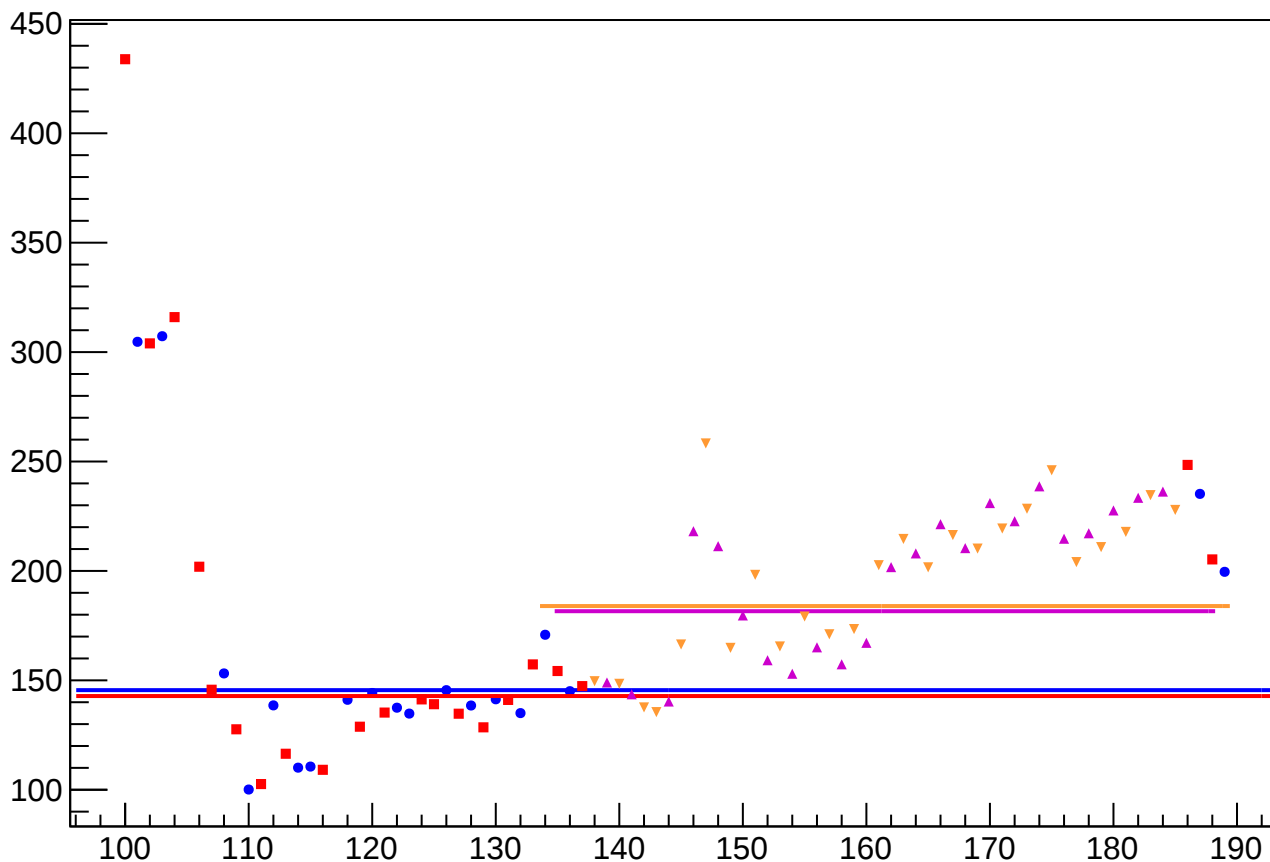
All: 162.652+/-0.017 χ^2/NDF : 9240962.0/87

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: 127095.807 $\pm$ 0.039	χ^2 /NDF: 4141129485.5/18
Right Out: 126977.959 $\pm$ 0.052	χ^2 /NDF: 2646967251.7/20	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: 126276.008 $\pm$ 0.034	χ^2 /NDF: 9681187425.3/41
		All: 126357.445 $\pm$ 0.024	χ^2 /NDF: 172928848.0/18

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: 142.824 $\pm$ 0.037 χ^2 /NDF: 1277059.1/20

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

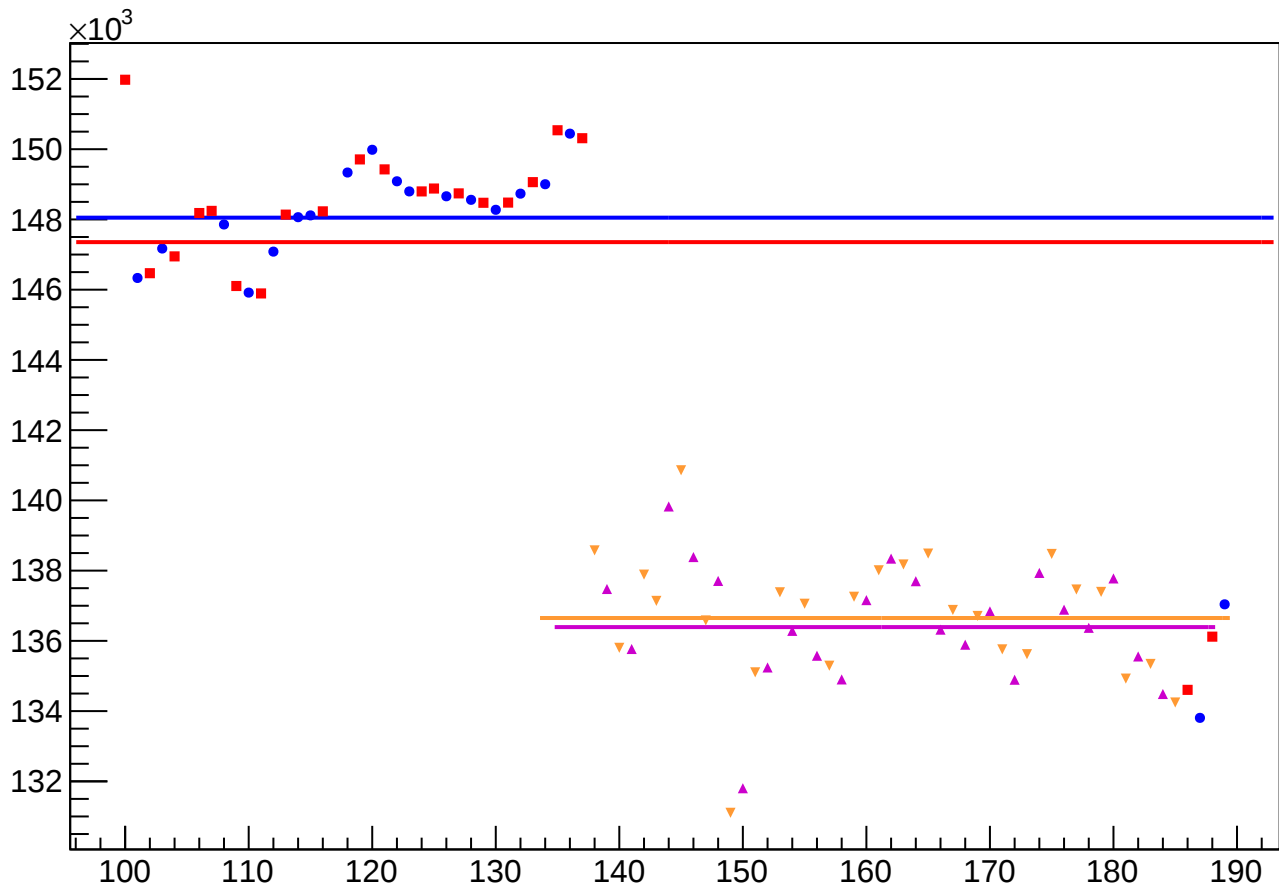
Right: 144.066 $\pm$ 0.027 χ^2 /NDF: 2233282.1/39

In: 167.753 $\pm$ 0.025 χ^2 /NDF: 2554820.4/41

Out: 166.976 $\pm$ 0.024 χ^2 /NDF: 3121110.4/45

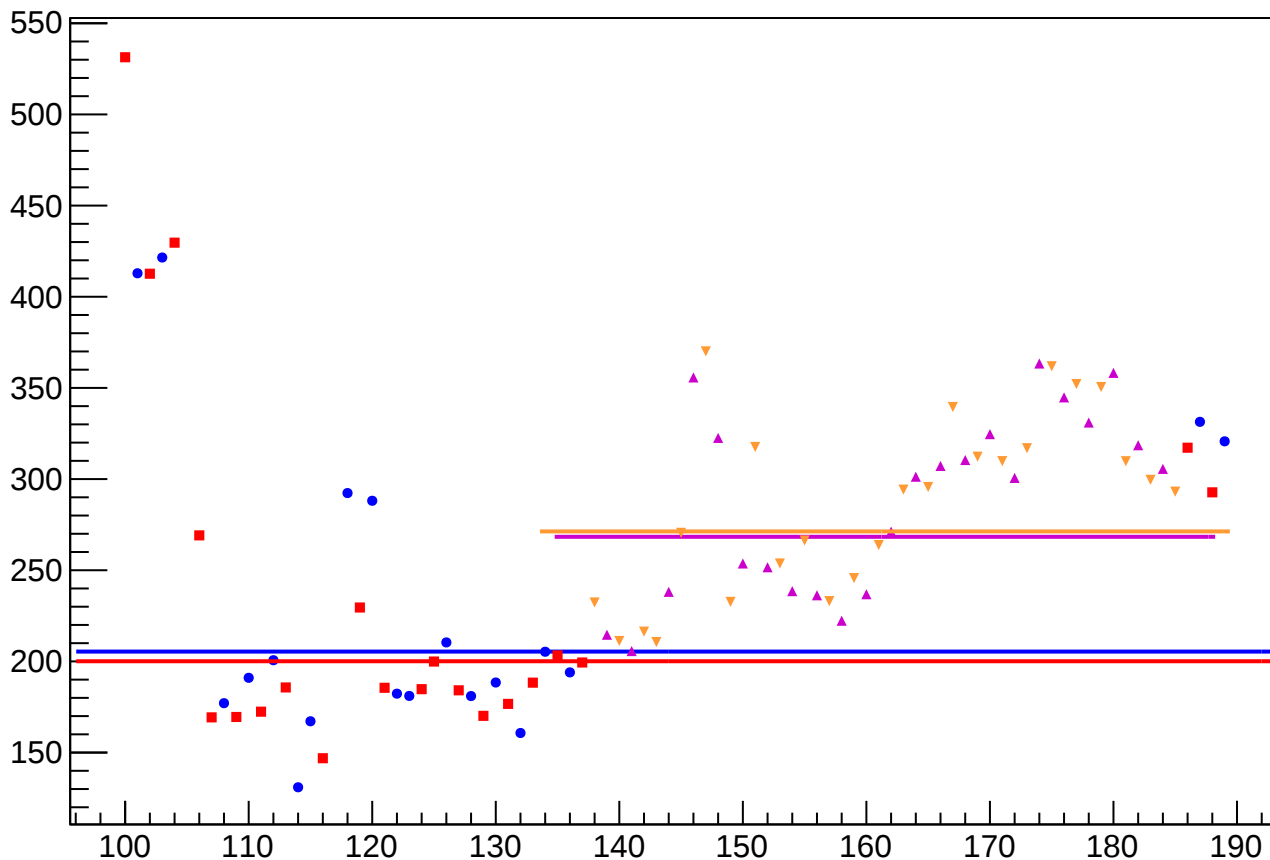
All: 167.348 $\pm$ 0.017 χ^2 /NDF: 5676439.9/87

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148050.653 $\pm$ 0.081 χ^2 /NDF: 1086051846.7/18
 Left: 136524.219 $\pm$ 0.046 χ^2 /NDF: 1640486942.5/4
 Left Out: 136650.935 $\pm$ 0.065 χ^2 /NDF: 930649595.5/24
 Right: 147670.207 $\pm$ 0.054 χ^2 /NDF: 3455515314.3/18
 In: 141066.077 $\pm$ 0.051 χ^2 /NDF: 14309820684.2/4
 Right Out: 147354.000 $\pm$ 0.074 χ^2 /NDF: 2328707177.3/20
 Out: 141316.329 $\pm$ 0.049 χ^2 /NDF: 15215300989.3/18
 Left In: 136392.188 $\pm$ 0.066 χ^2 /NDF: 701986841.4/22
 All: 141197.533 $\pm$ 0.035 χ^2 /NDF: 295377400.0/18

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 205.388+/-0.057 χ^2/NDF : 1109628.3/18

Left Out: 271.295+/-0.046 χ^2/NDF :1064485.7/24

Right Out: 200.085+/-0.052 χ^2/NDF : 1143349.9/20

Left In: 268.344+/-0.047 χ^2/NDF :1077364.0/22

Left: 269.850+/-0.033 χ^2/NDF : 2143892.9/47

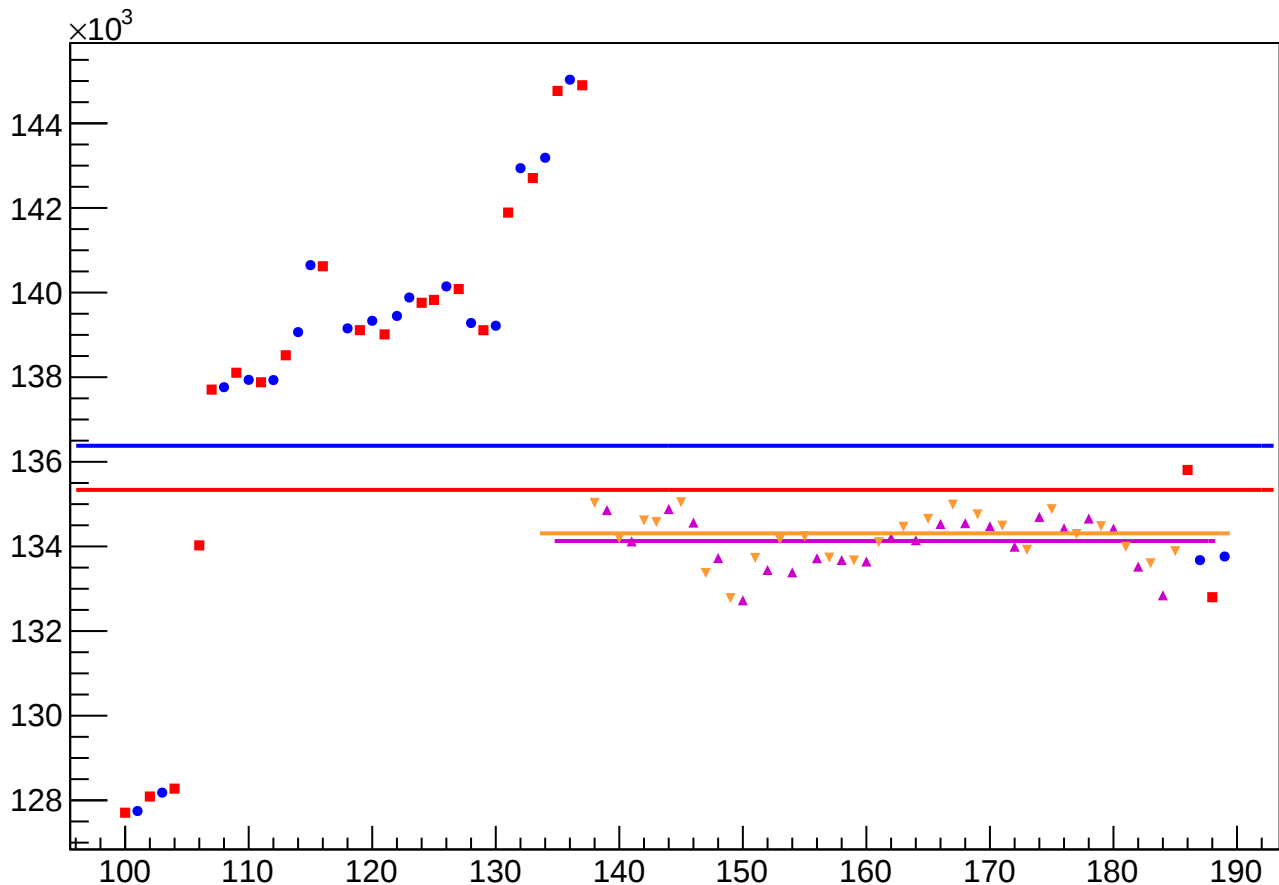
Right: 202.492+/-0.038 χ^2/NDF : 2257702.5/39

In: 243.105+/-0.036 χ^2/NDF :2917249.4/41

Out: 240.255+/-0.034 χ^2/NDF :3266319.9/45

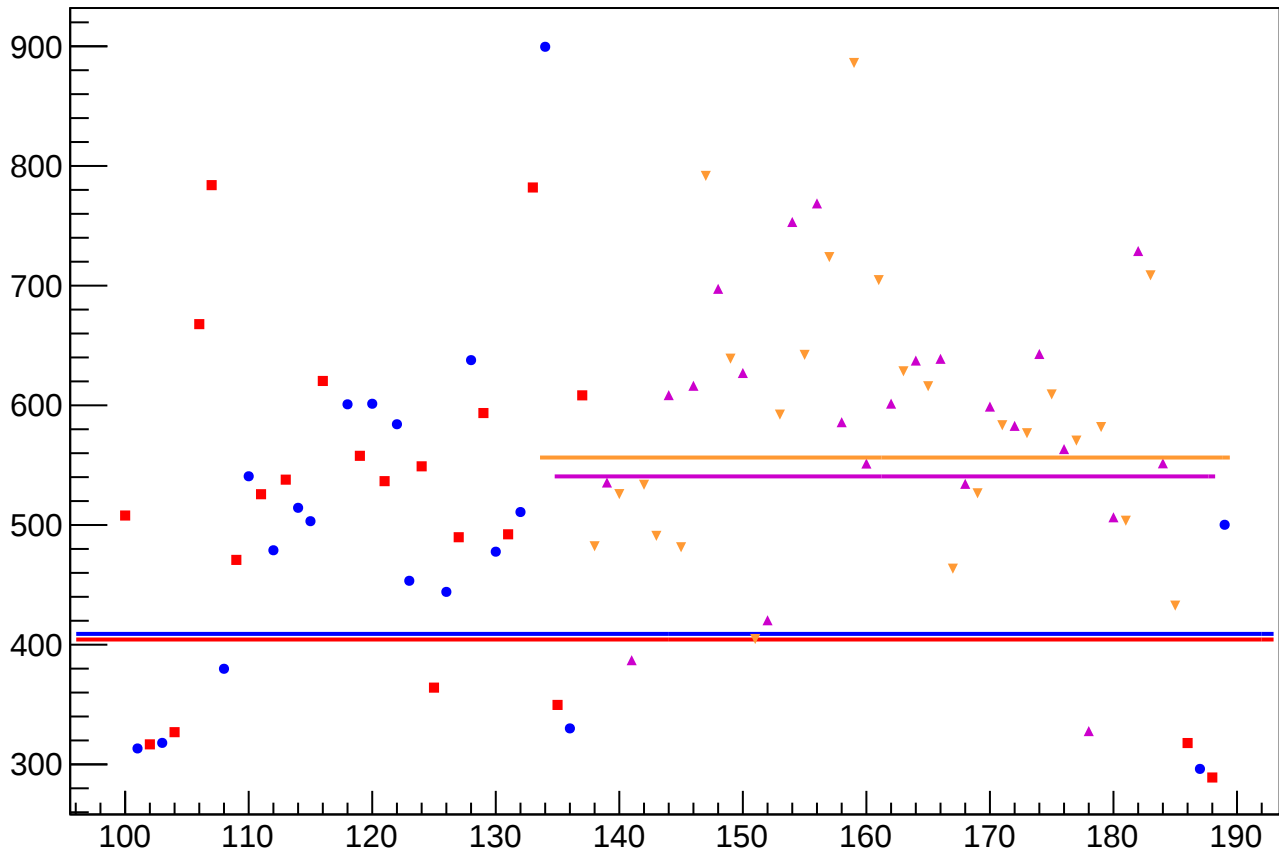
All: 241.608+/-0.025 χ^2/NDF : 6186841.8/87

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: 135831.121 $\pm$ 0.114	χ^2/NDF : 2679924076.6/4
Right Out: 135337.231 $\pm$ 0.157	χ^2/NDF : 1144834796.6/20	In: 135084.492 $\pm$ 0.108	χ^2/NDF : 1636480320.8/4
Left In: 134128.172 $\pm$ 0.142	χ^2/NDF : 15533736.2/22	Out: 134760.564 $\pm$ 0.104	χ^2/NDF : 1184442787.6/4
		All: 134916.613 $\pm$ 0.075	χ^2/NDF : 282561227.0/10

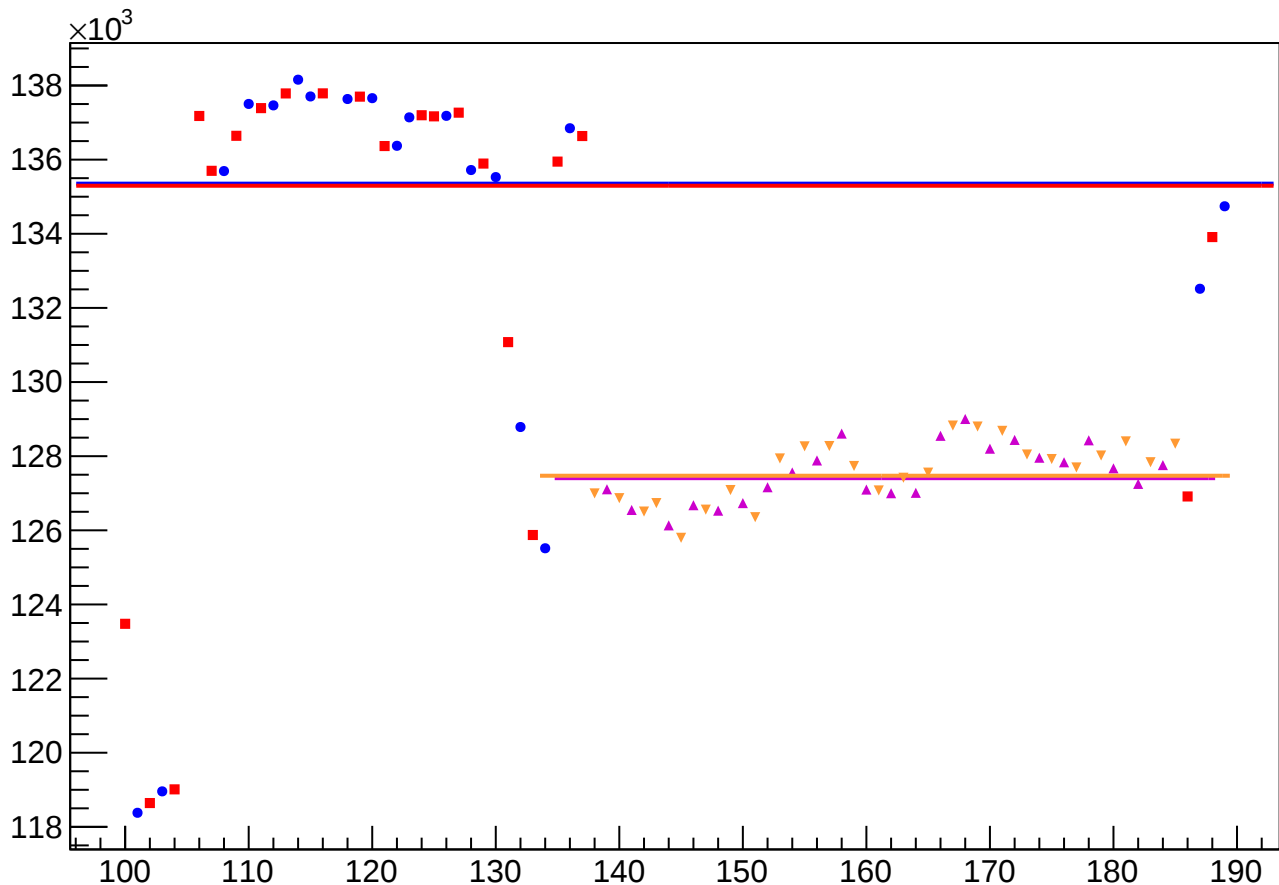
yield_bpm0l03WS_rms vs Slug, Sign Corrected



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: 404.331 $\pm$ 0.111 χ^2 /NDF: 1261524.6/20
 Left In: 540.607 $\pm$ 0.100 χ^2 /NDF:1409015.2/22

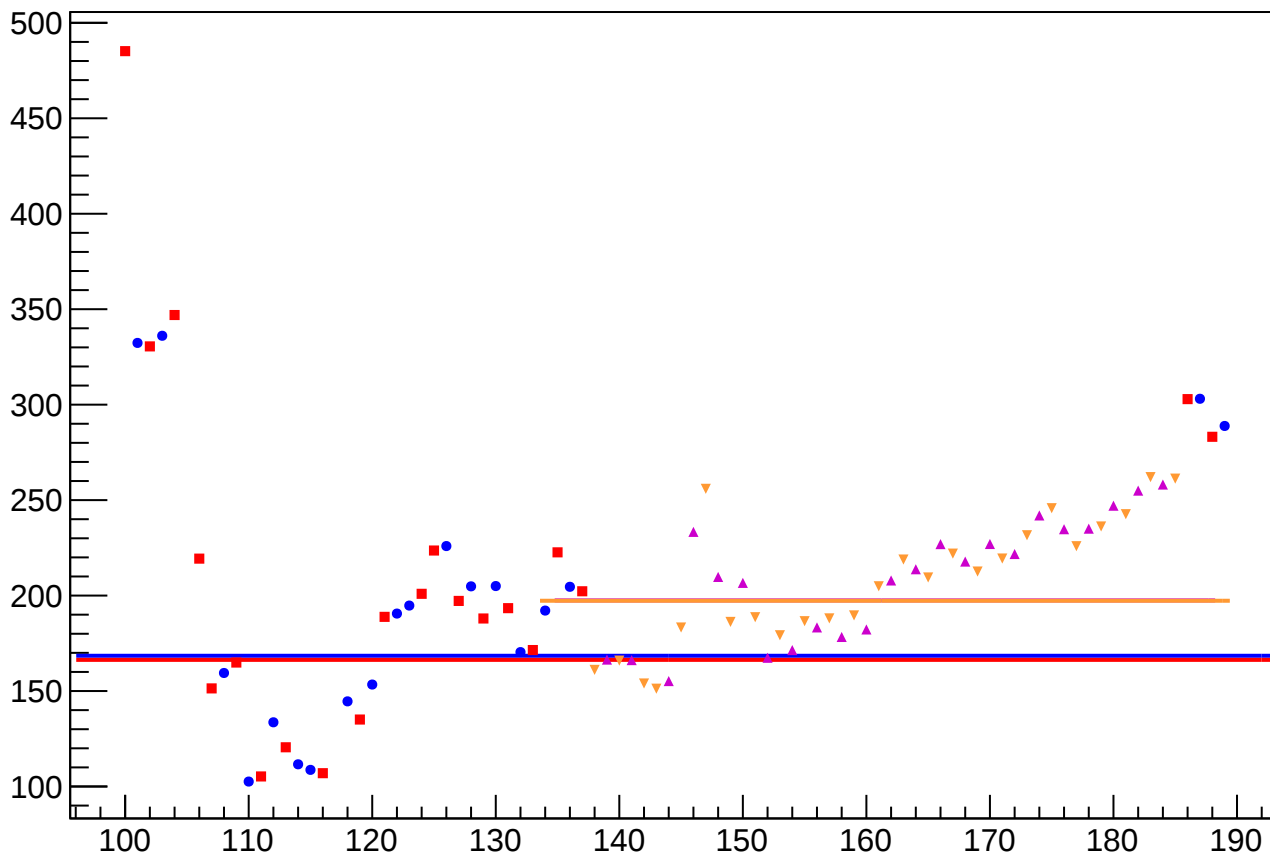
Left: 548.687 $\pm$ 0.070 χ^2 /NDF: 2423723.9/47
 Right: 406.555 $\pm$ 0.080 χ^2 /NDF: 2148597.0/39
 In: 484.717 $\pm$ 0.076 χ^2 /NDF:3024792.8/41
 Out: 489.710 $\pm$ 0.073 χ^2 /NDF:3319688.2/45
 All: 487.305 $\pm$ 0.053 χ^2 /NDF: 6346709.3/87

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: 135322.038 $\pm$ 0.046	χ^2 /NDF: 9644832747.3/18
Right Out: 135296.142 $\pm$ 0.063	χ^2 /NDF: 5051080926.4/20	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: 130287.452 $\pm$ 0.037	χ^2 /NDF: 15385791002.9/18
		All: 130206.183 $\pm$ 0.027	χ^2 /NDF: 294647706.4/18

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: 166.321 $\pm$ 0.044 χ^2 /NDF: 1849397.5/20

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

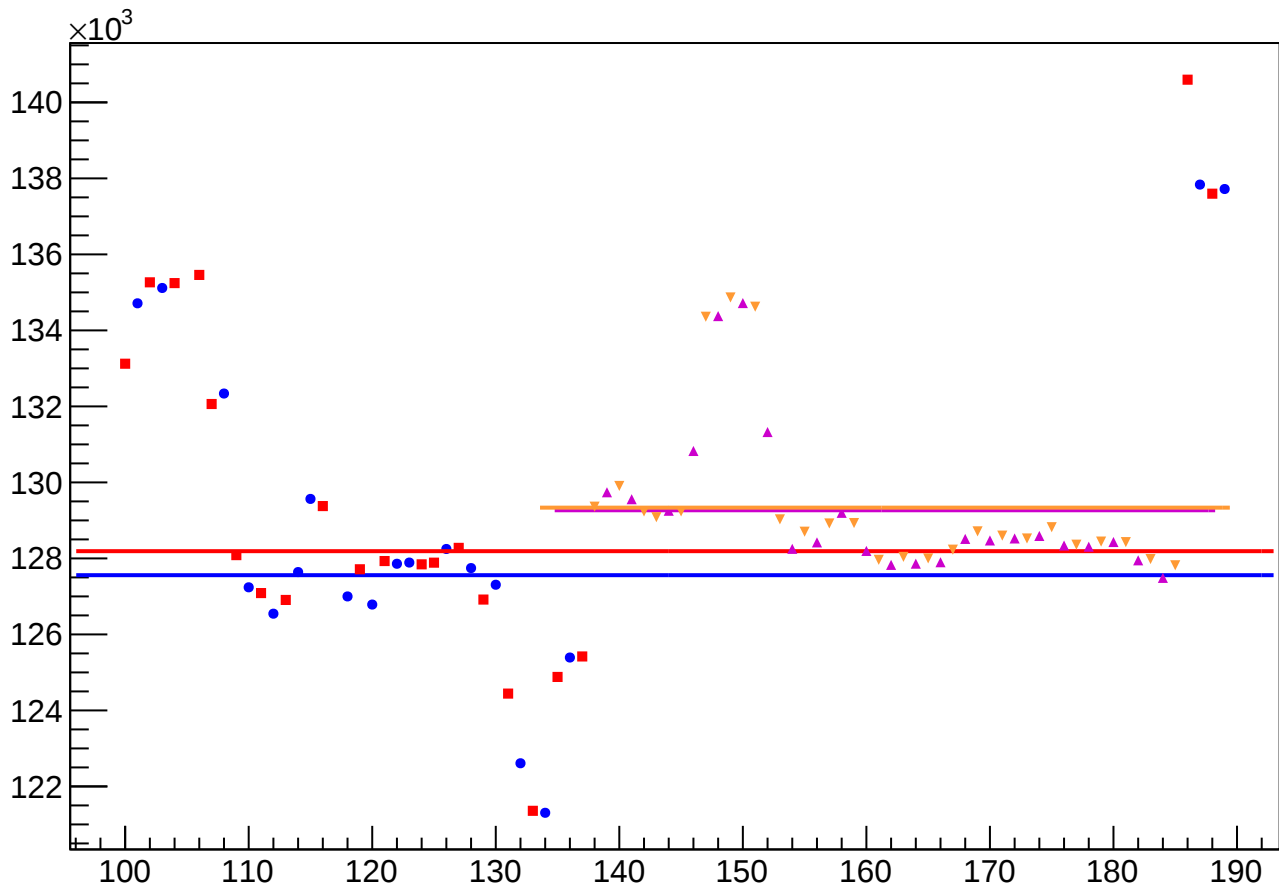
Right: 167.318 $\pm$ 0.032 χ^2 /NDF: 3309611.4/39

In: 187.579 $\pm$ 0.028 χ^2 /NDF: 2495972.3/41

Out: 186.147 $\pm$ 0.027 χ^2 /NDF: 3015767.2/45

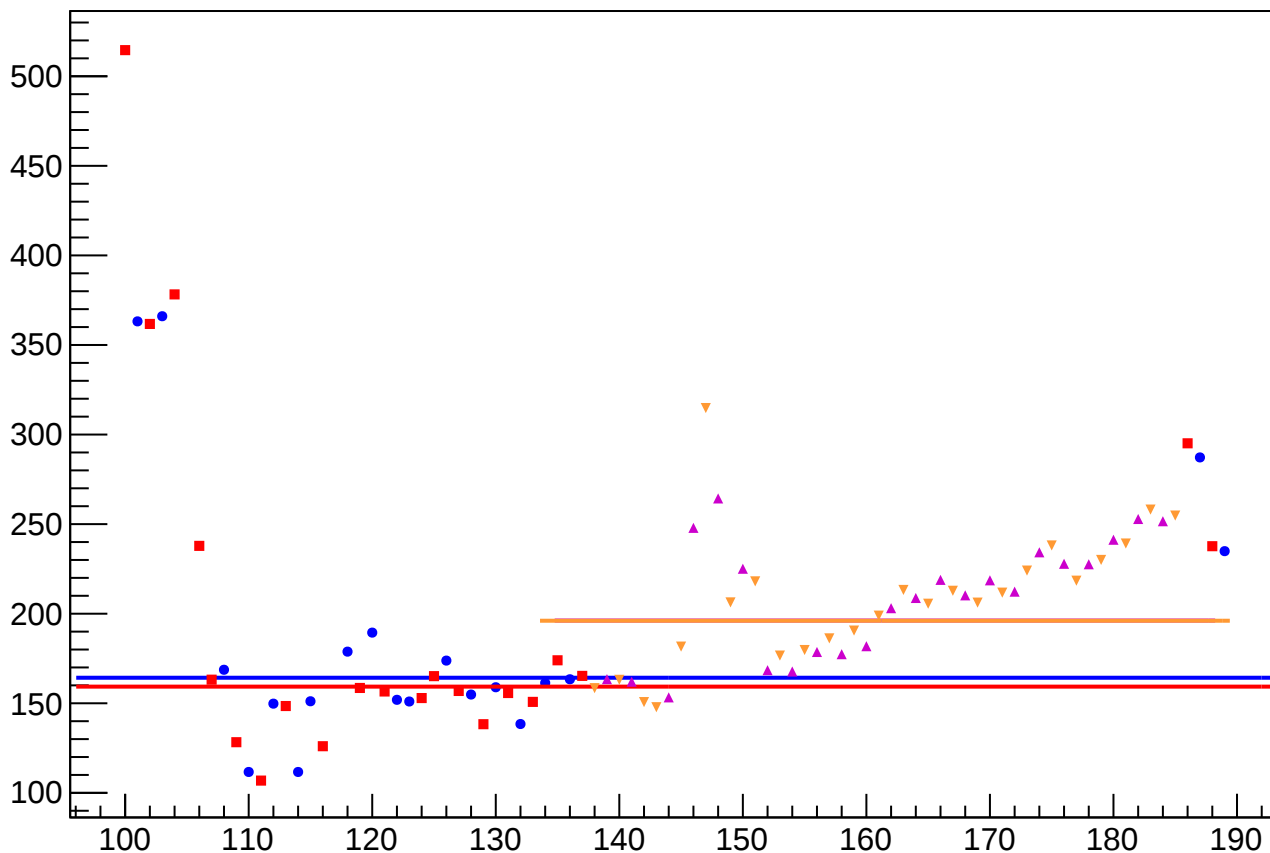
All: 186.830 $\pm$ 0.019 χ^2 /NDF: 5513131.9/87

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: 2665755007.2/18
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 127902.884 $\pm$ 0.044	χ^2 /NDF: 7177247088.1/18
Right Out: 128190.476 $\pm$ 0.059	χ^2 /NDF: 4273494906.2/20	In: 128661.052 $\pm$ 0.039	χ^2 /NDF: 4512282618.4/18
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 128897.878 $\pm$ 0.037	χ^2 /NDF: 5954249352.9/18
		All: 128785.625 $\pm$ 0.027	χ^2 /NDF: 104862474.1/18

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: 159.295 $\pm$ 0.042 χ^2 /NDF: 1460538.9/20

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

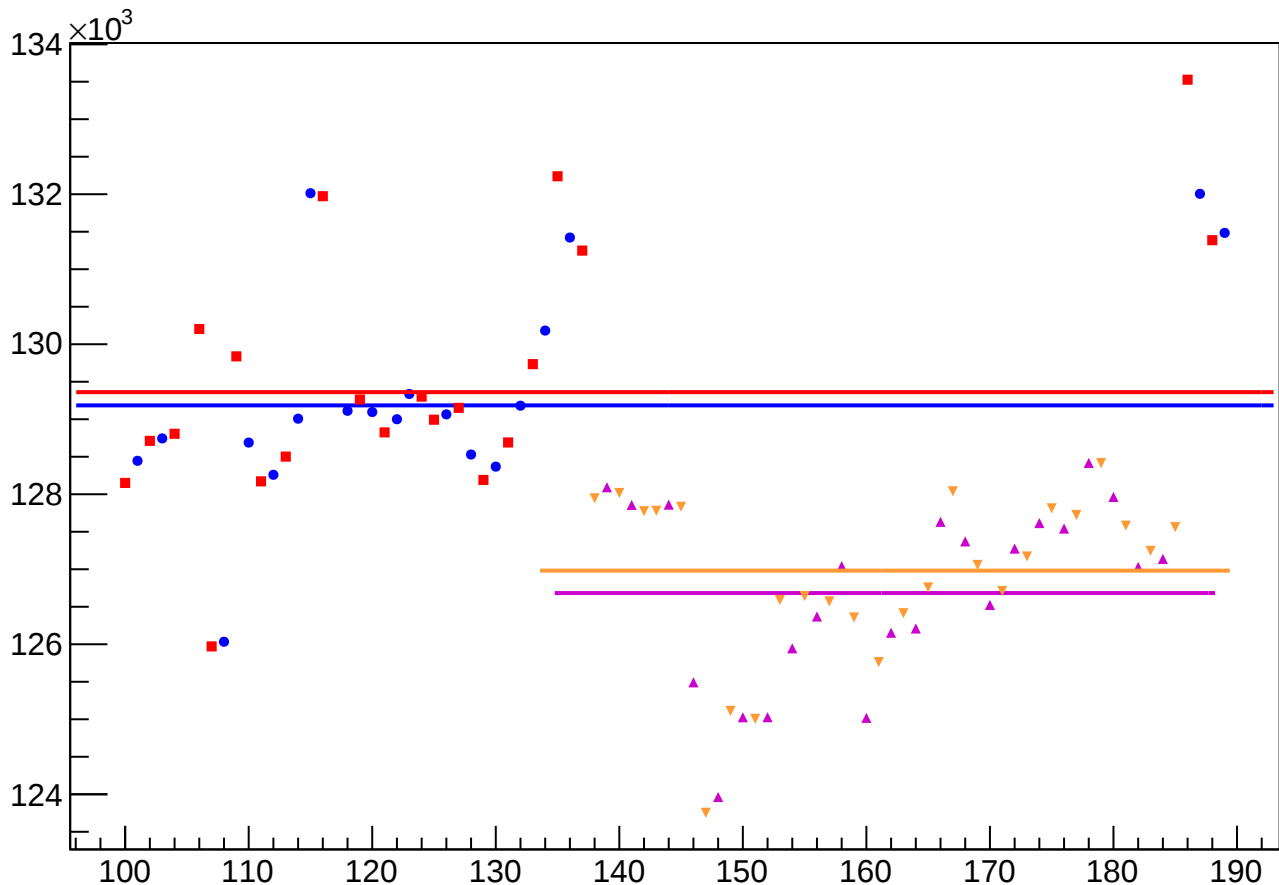
Right: 161.555 $\pm$ 0.031 χ^2 /NDF: 2555487.7/39

In: 184.862 $\pm$ 0.027 χ^2 /NDF: 2298494.8/41

Out: 182.011 $\pm$ 0.026 χ^2 /NDF: 2910186.1/45

All: 183.362 $\pm$ 0.019 χ^2 /NDF: 5214395.5/87

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129184.747 $\pm$ 0.059 χ^2 /NDF: 554854803.8/18

Left Out: 126981.724 $\pm$ 0.046 χ^2 /NDF: 530573115.8/24

Right Out: 129361.218 $\pm$ 0.054 χ^2 /NDF: 792163608.8/20

Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22

Left: 126836.943 $\pm$ 0.033 χ^2 /NDF: 1211882944.2/4

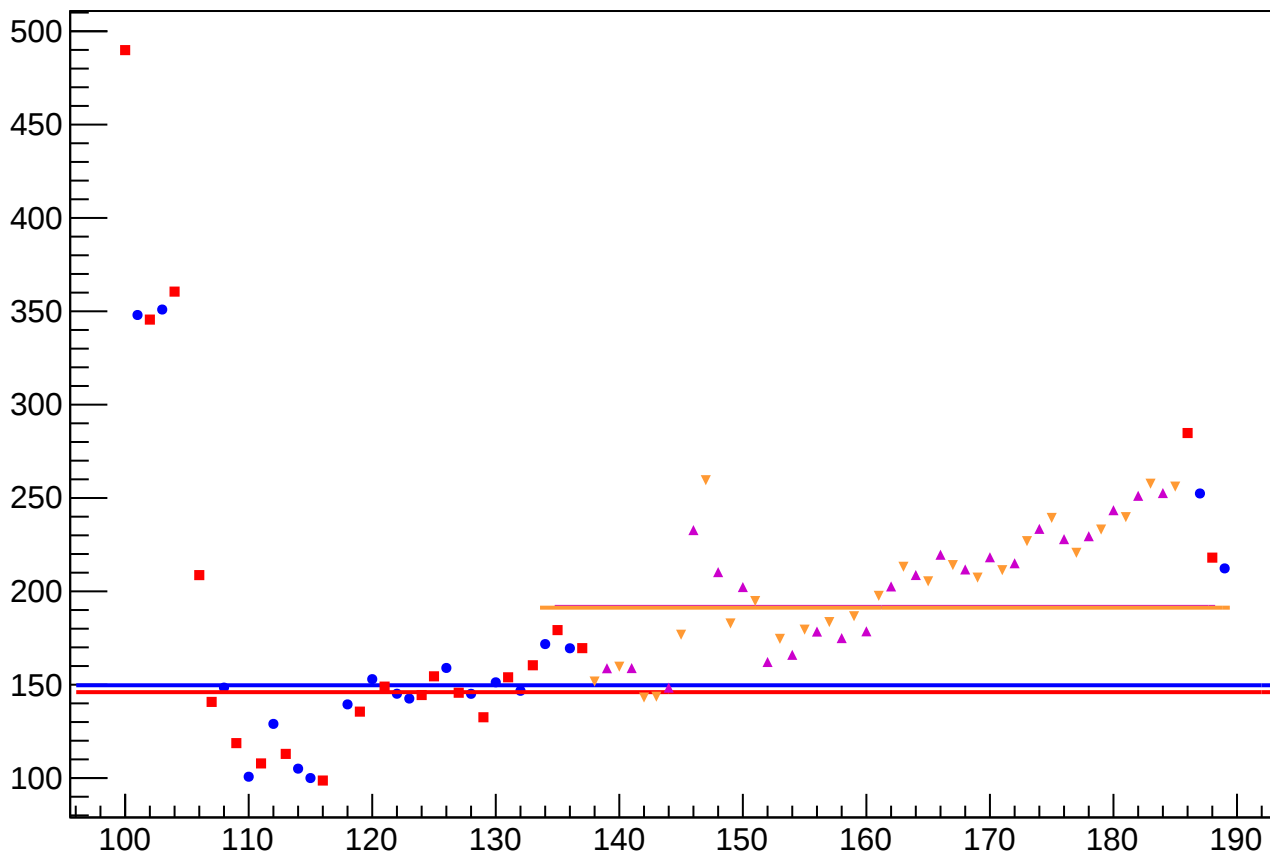
Right: 129280.313 $\pm$ 0.040 χ^2 /NDF: 1351880100.9/4

In: 127655.928 $\pm$ 0.037 χ^2 /NDF: 2318009112.3/4

Out: 127966.159 $\pm$ 0.035 χ^2 /NDF: 2453098338.6/4

All: 127819.171 $\pm$ 0.025 χ^2 /NDF: 480863972

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: 146.011 $\pm$ 0.038 χ^2/NDF : 1596429.4/20

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

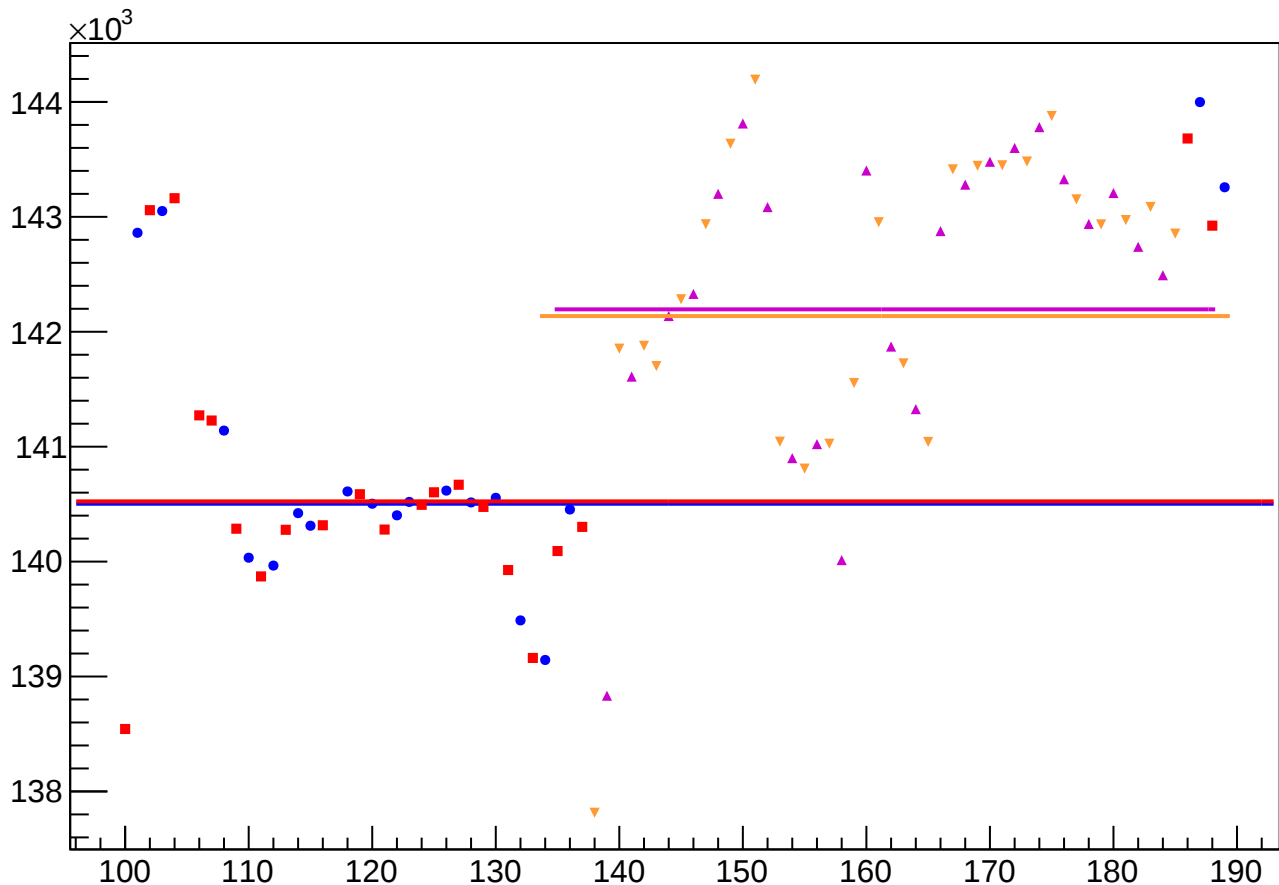
Right: 147.703 $\pm$ 0.028 χ^2/NDF : 2806576.2/39

In: 175.352 $\pm$ 0.026 χ^2/NDF : 2691190.5/41

Out: 172.542 $\pm$ 0.025 χ^2/NDF : 3406608.4/45

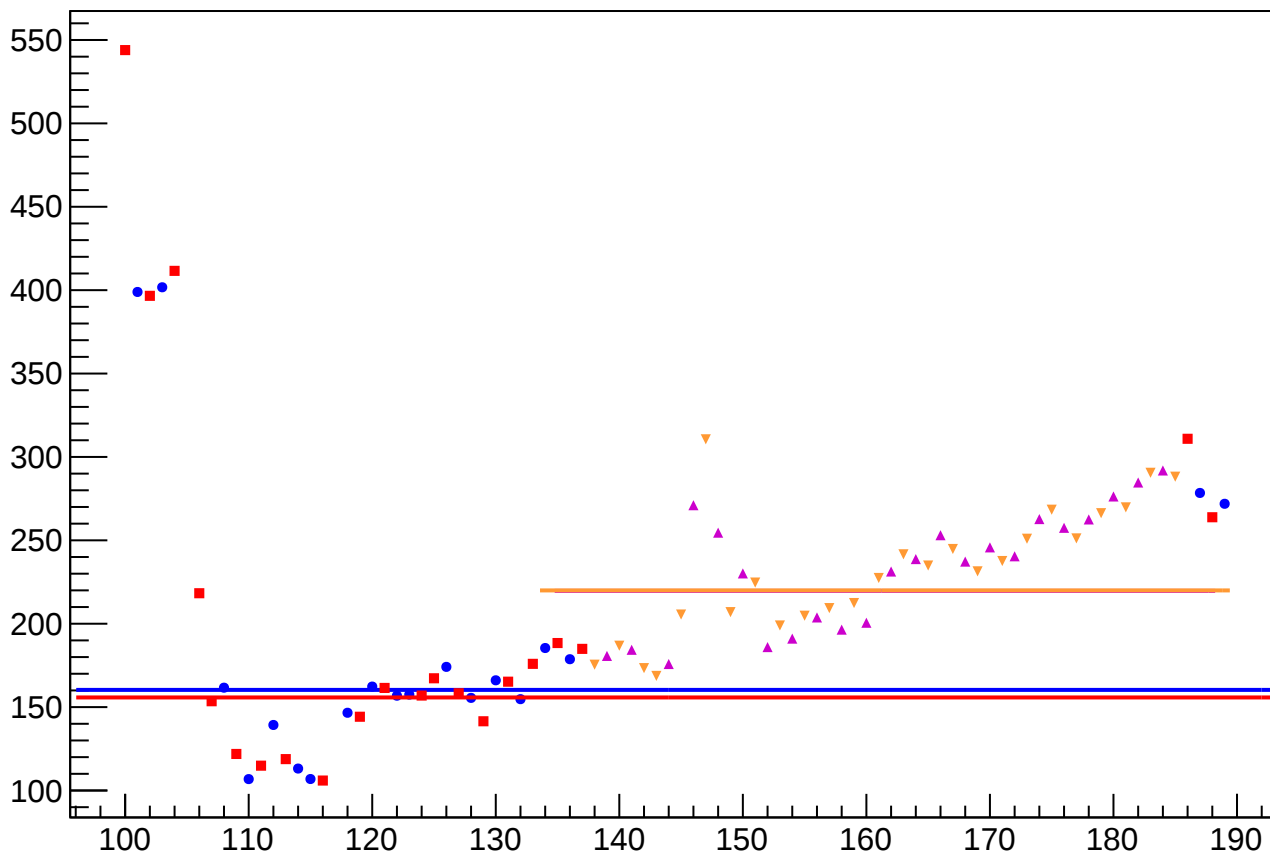
All: 173.873 $\pm$ 0.018 χ^2/NDF : 6103959.7/87

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140503.554 $\pm$ 0.063	χ^2 /NDF: 163065303.0/18	Left: 142164.953 $\pm$ 0.038	χ^2 /NDF: 1460209902.9/4
Left Out: 142136.579 $\pm$ 0.052	χ^2 /NDF: 815573343.0/24	Right: 140514.698 $\pm$ 0.043	χ^2 /NDF: 379788712.7/3
Right Out: 140524.101 $\pm$ 0.058	χ^2 /NDF: 216666380.3/20	In: 141485.525 $\pm$ 0.041	χ^2 /NDF: 1220753701.3/41
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141415.846 $\pm$ 0.039	χ^2 /NDF: 1456706748.0/4
		All: 141448.833 $\pm$ 0.028	χ^2 /NDF: 26789784

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: 155.789+/-0.041 χ^2/NDF : 1809464.7/20

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

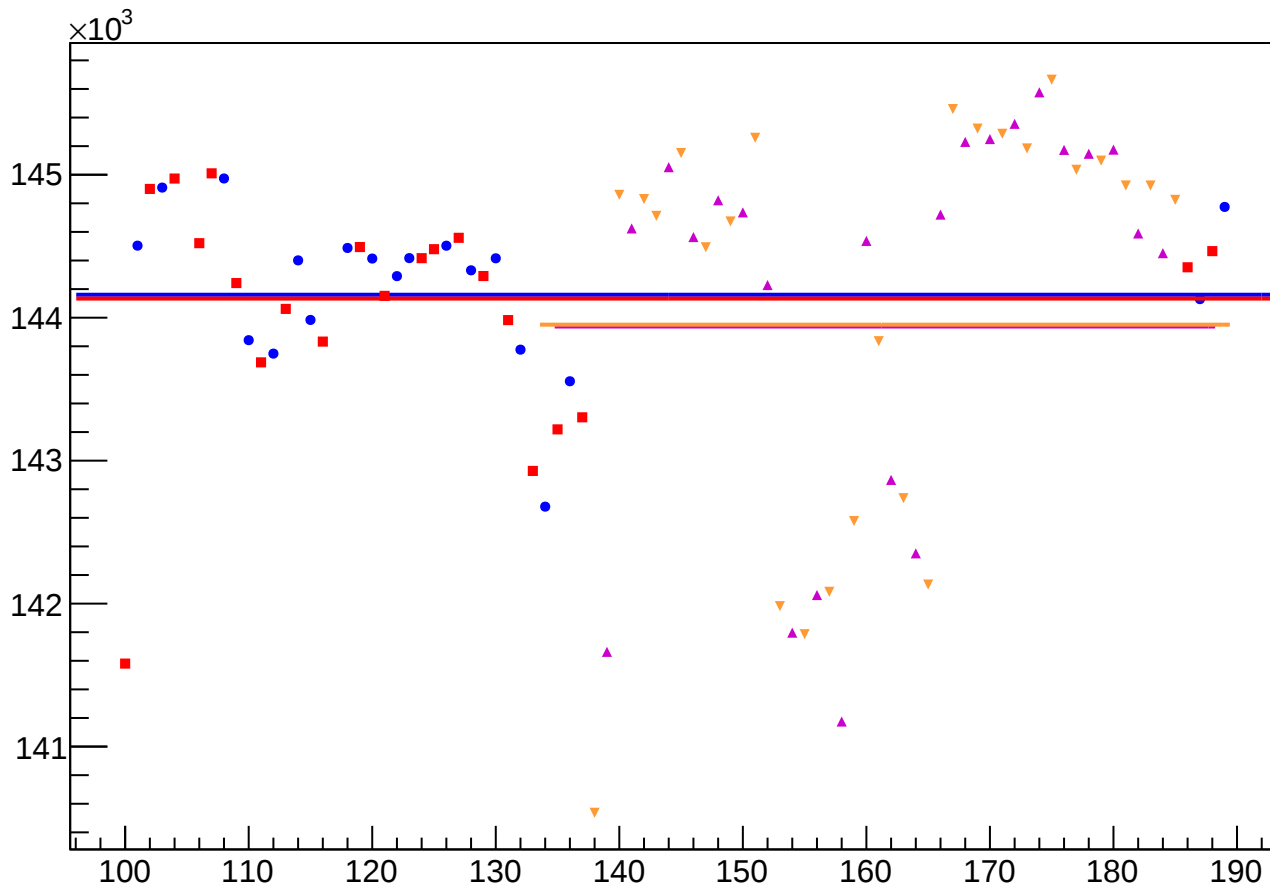
Right: 157.864+/-0.030 χ^2/NDF : 3191870.2/39

In: 194.785+/-0.029 χ^2/NDF : 3208544.2/41

Out: 191.282+/-0.028 χ^2/NDF : 4020988.9/45

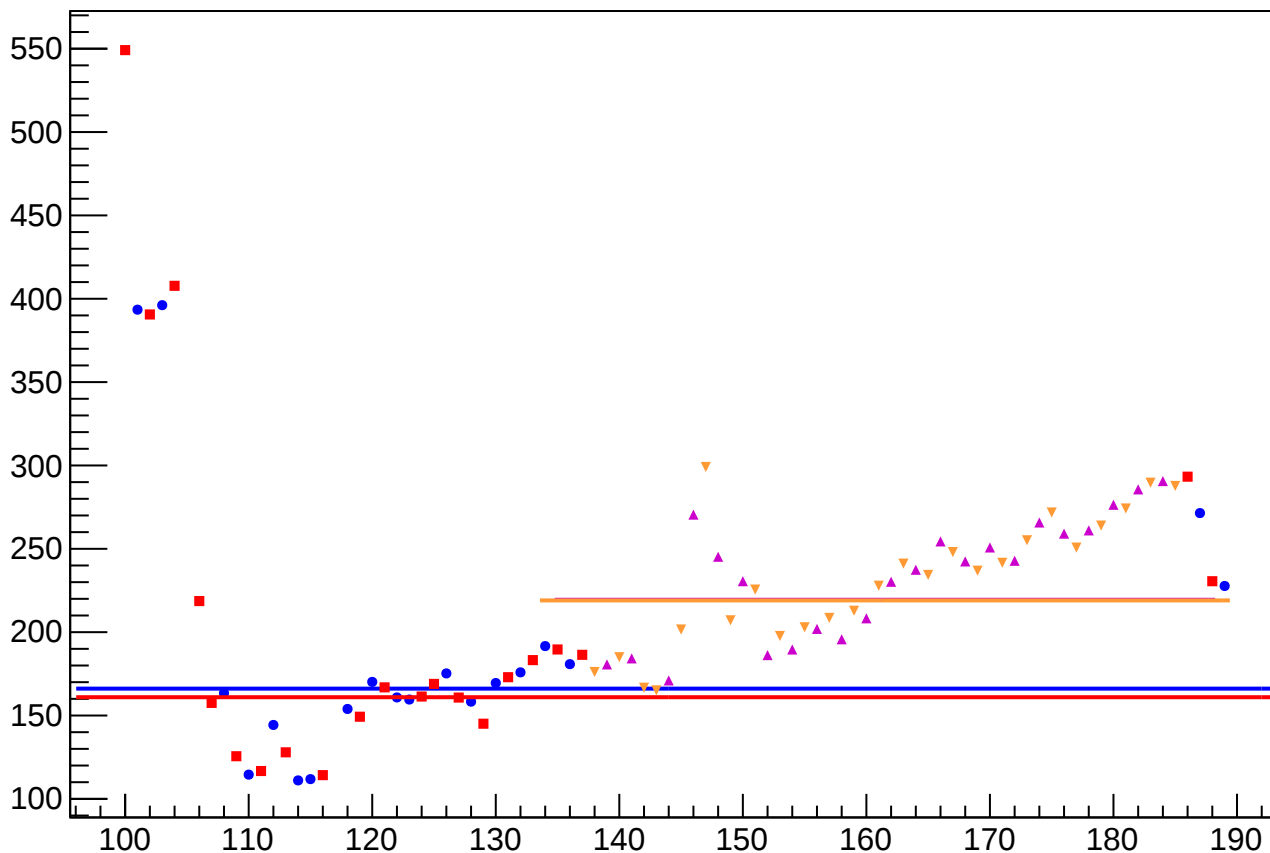
All: 192.941+/-0.020 χ^2/NDF : 7237205.7/87

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: 144145.933 $\pm$ 0.044	χ^2 /NDF: 118184362.6/3
Right Out: 144133.695 $\pm$ 0.060	χ^2 /NDF: 67409622.3/20	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: 144030.408 $\pm$ 0.039	χ^2 /NDF: 937399097.3/45
		All: 144029.438 $\pm$ 0.029	χ^2 /NDF: 171480440

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: 160.981 $\pm$ 0.042 χ^2 /NDF: 1550112.8/20

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

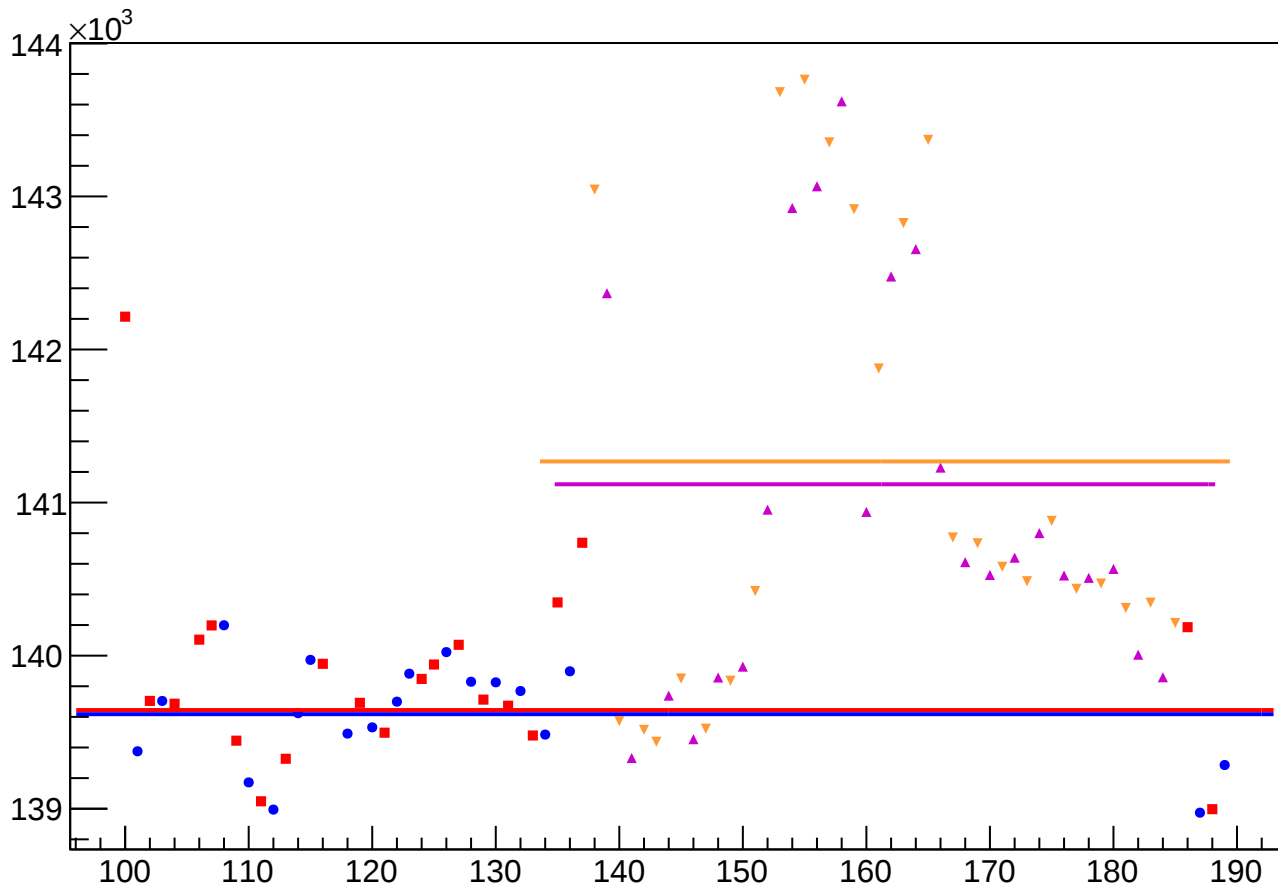
Right: 163.325 $\pm$ 0.031 χ^2 /NDF: 2746788.6/39

In: 197.838 $\pm$ 0.029 χ^2 /NDF: 2833641.2/41

Out: 193.862 $\pm$ 0.028 χ^2 /NDF: 3560726.8/45

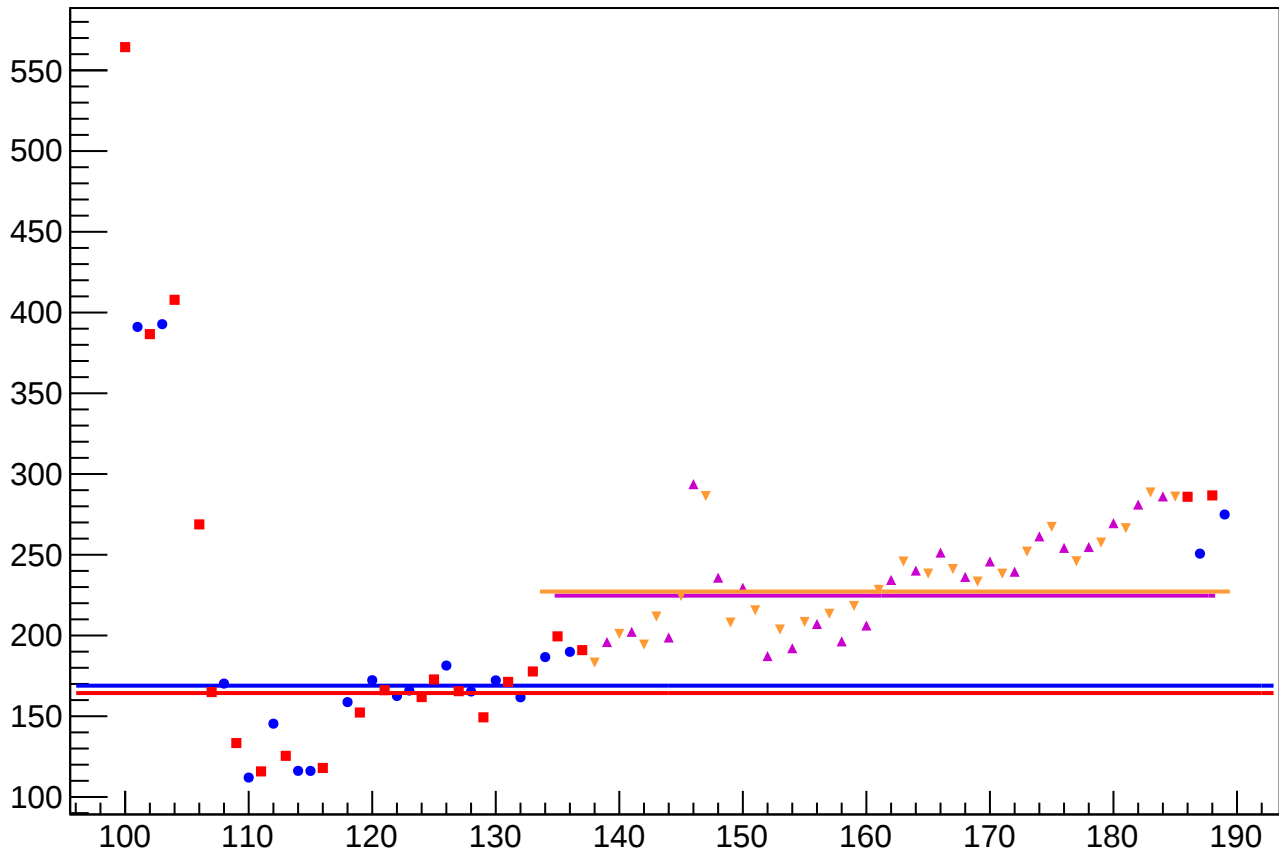
All: 195.737 $\pm$ 0.020 χ^2 /NDF: 6404058.6/87

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139617.598 $\pm$ 0.067	χ^2 /NDF: 26540095.4/18	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/4
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: 139632.208 $\pm$ 0.045	χ^2 /NDF: 70789910.6/39
Right Out: 139644.572 $\pm$ 0.061	χ^2 /NDF: 44160971.1/20	In: 140511.633 $\pm$ 0.042	χ^2 /NDF: 894580807.1/41
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: 140563.143 $\pm$ 0.040	χ^2 /NDF: 1237616506.6/4
		All: 140538.624 $\pm$ 0.029	χ^2 /NDF: 213297180

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 168.929 $\pm$ 0.047 χ^2 /NDF: 1245575.0/18

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF: 484955.3/24

Right Out: 164.359 $\pm$ 0.043 χ^2 /NDF: 1718487.4/20

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

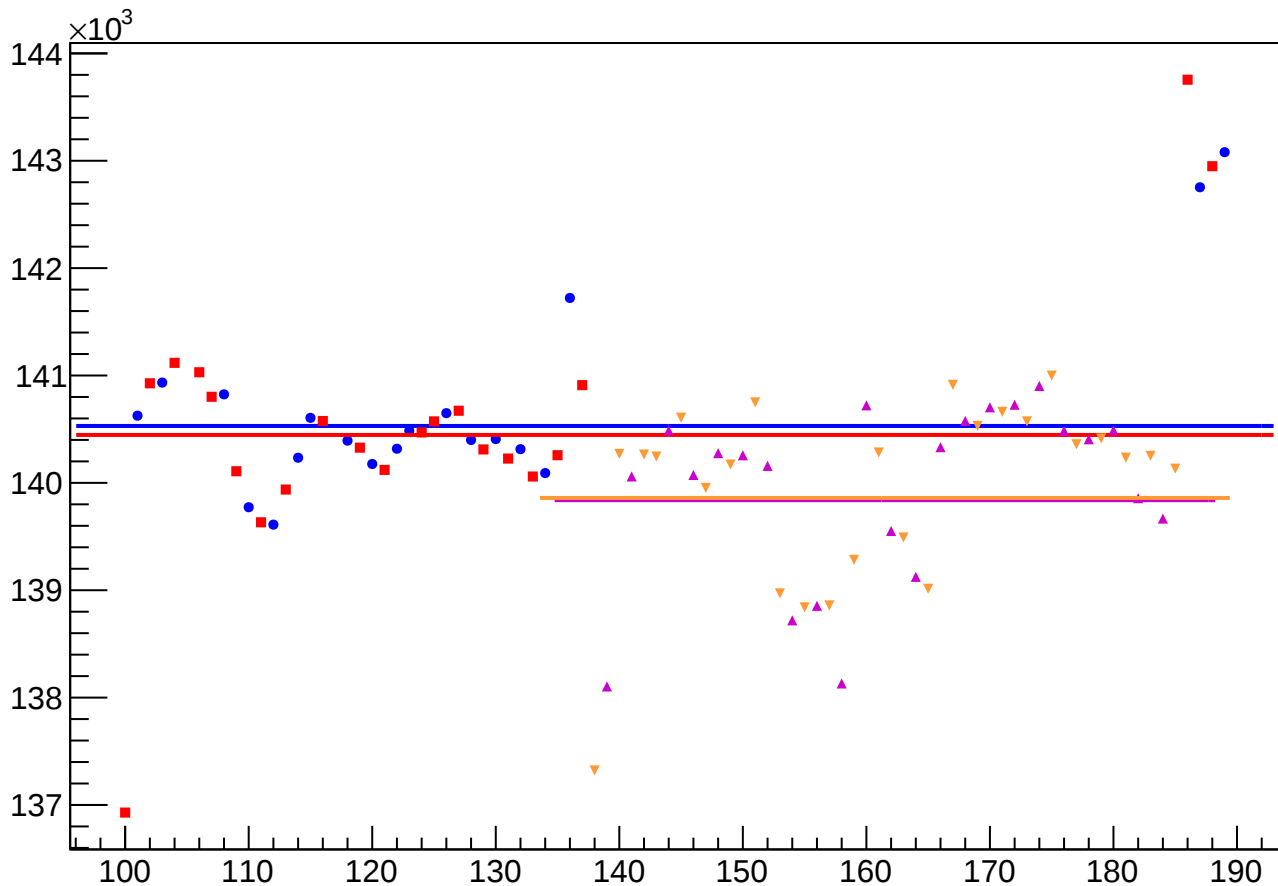
Right: 166.454 $\pm$ 0.032 χ^2 /NDF: 2969163.7/39

In: 202.120 $\pm$ 0.030 χ^2 /NDF: 2658403.7/41

Out: 199.912 $\pm$ 0.029 χ^2 /NDF: 3394295.0/45

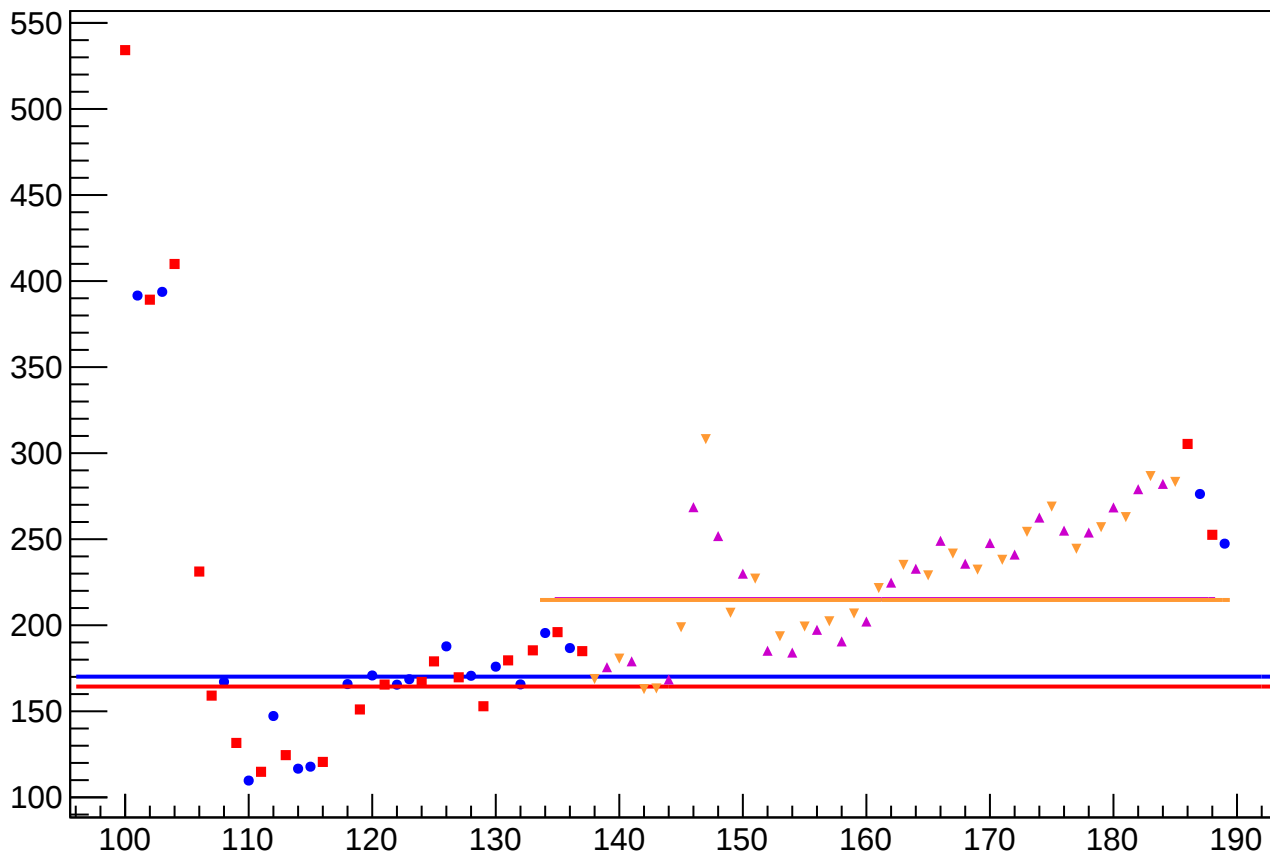
All: 200.963 $\pm$ 0.021 χ^2 /NDF: 6055544.7/87

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140530.101+/-0.067	χ^2/NDF : 133228811.9/18	Left: 139849.553+/-0.037	χ^2/NDF : 609773442.9/41
Left Out: 139859.696+/-0.051	χ^2/NDF : 330118281.5/24	Right: 140484.336+/-0.045	χ^2/NDF : 310866833.5/3
Right Out: 140446.317+/-0.061	χ^2/NDF : 176783489.6/20	In: 140103.657+/-0.041	χ^2/NDF : 478508522.8/41
Left In: 139838.724+/-0.053	χ^2/NDF : 279573689.3/22	Out: 140101.329+/-0.039	χ^2/NDF : 561192119.7/45
		All: 140102.427+/-0.028	χ^2/NDF : 103970230

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: 164.379 $\pm$ 0.043 χ^2 /NDF: 1624089.7/20

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

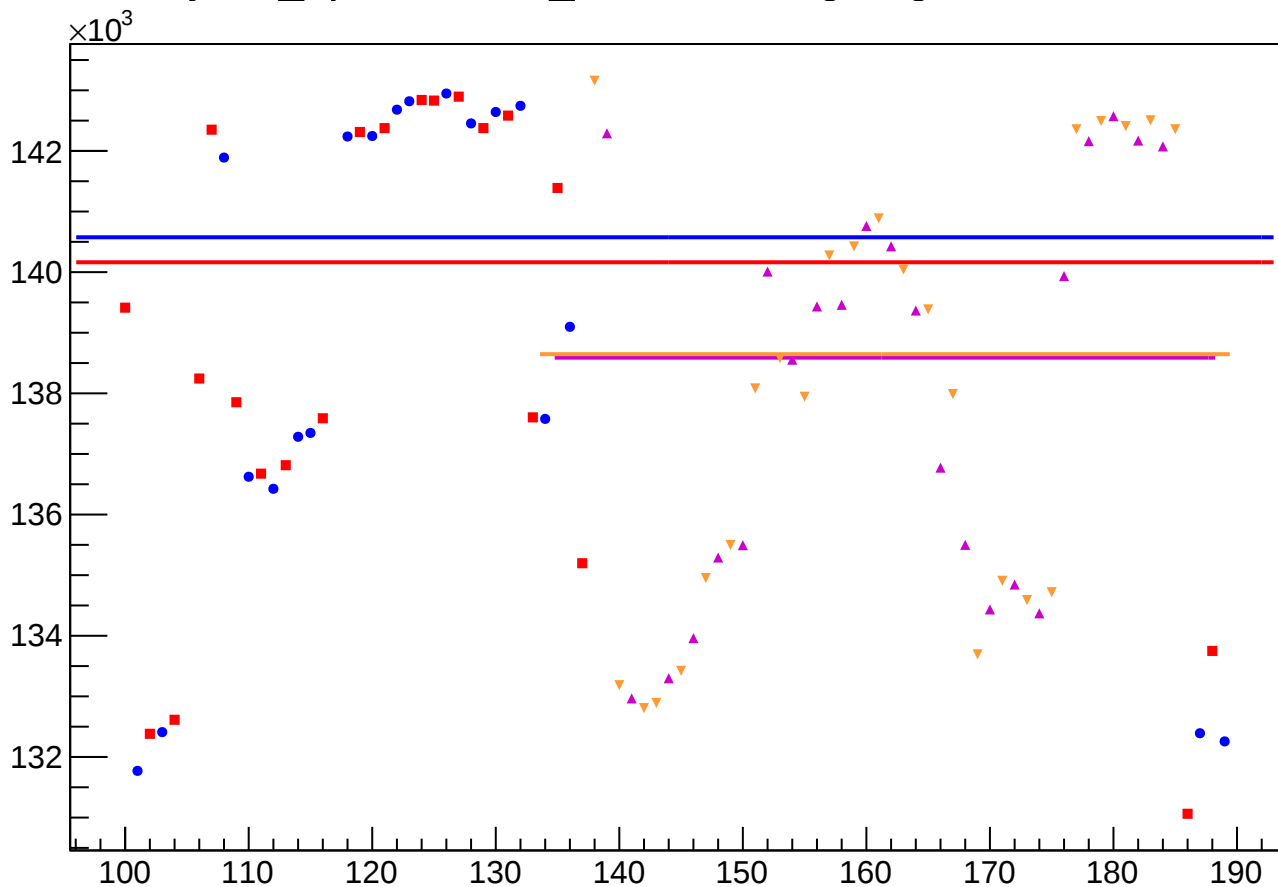
Right: 166.992 $\pm$ 0.032 χ^2 /NDF: 2856203.9/39

In: 197.946 $\pm$ 0.029 χ^2 /NDF:2664768.3/41

Out: 193.968 $\pm$ 0.028 χ^2 /NDF:3403953.5/45

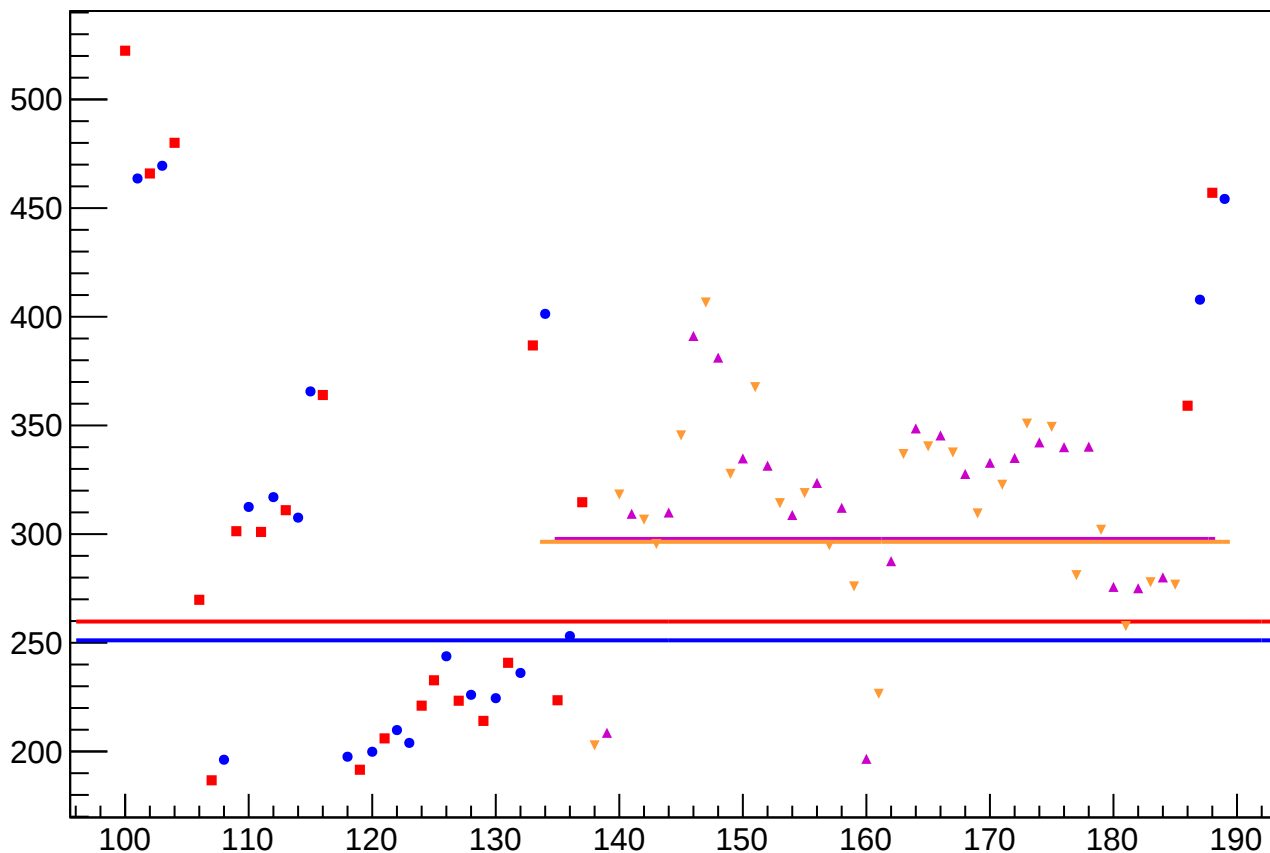
All: 195.844 $\pm$ 0.020 χ^2 /NDF: 6078444.4/87

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140575.203 $\pm$ 0.099	χ^2 /NDF: 1043822297.8/18	Left: 138618.660 $\pm$ 0.051	χ^2 /NDF: 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	Right: 140363.238 $\pm$ 0.069	χ^2 /NDF: 2327348261.8/4
Right Out: 140162.937 $\pm$ 0.096	χ^2 /NDF: 1274542803.6/20	In: 139300.014 $\pm$ 0.059	χ^2 /NDF: 3252292459.3/4
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 139182.018 $\pm$ 0.057	χ^2 /NDF: 3985011686.8/4
		All: 139238.944 $\pm$ 0.041	χ^2 /NDF: 723937294

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: 259.775+/-0.068 χ^2/NDF : 1412821.8/20

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

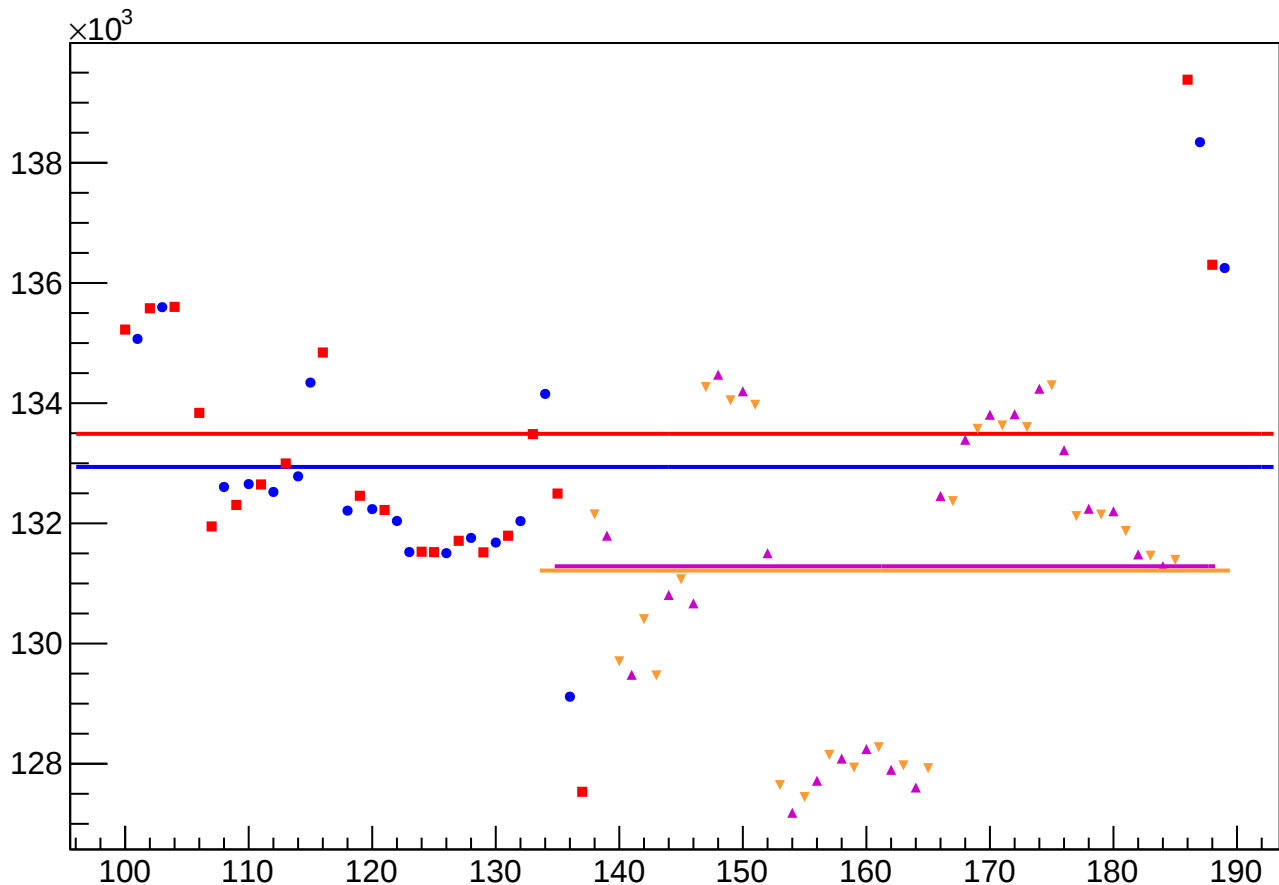
Right: 255.575+/-0.049 χ^2/NDF : 2526918.8/39

In: 281.072+/-0.042 χ^2/NDF : 2454836.7/41

Out: 283.506+/-0.040 χ^2/NDF : 2495832.4/45

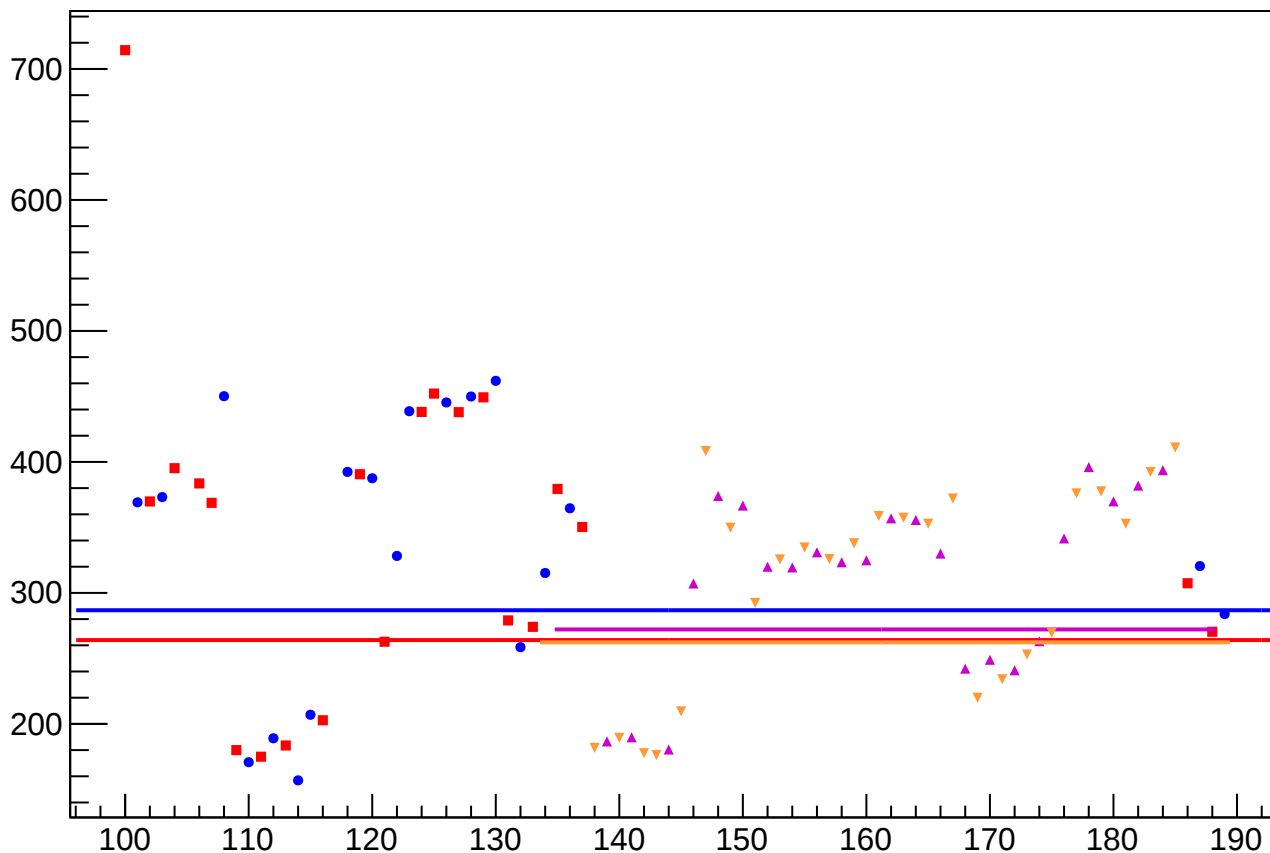
All: 282.332+/-0.029 χ^2/NDF : 4952428.9/87

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: 133254.002 $\pm$ 0.074	χ^2 /NDF: 709928112.9/3
Right Out: 133489.947 $\pm$ 0.098	χ^2 /NDF: 418976936.0/20	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: 131895.043 $\pm$ 0.054	χ^2 /NDF: 1966411217.0/4
		All: 131816.577 $\pm$ 0.040	χ^2 /NDF: 345993548

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: 263.991 $\pm$ 0.070 χ^2 /NDF: 1631723.8/20

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

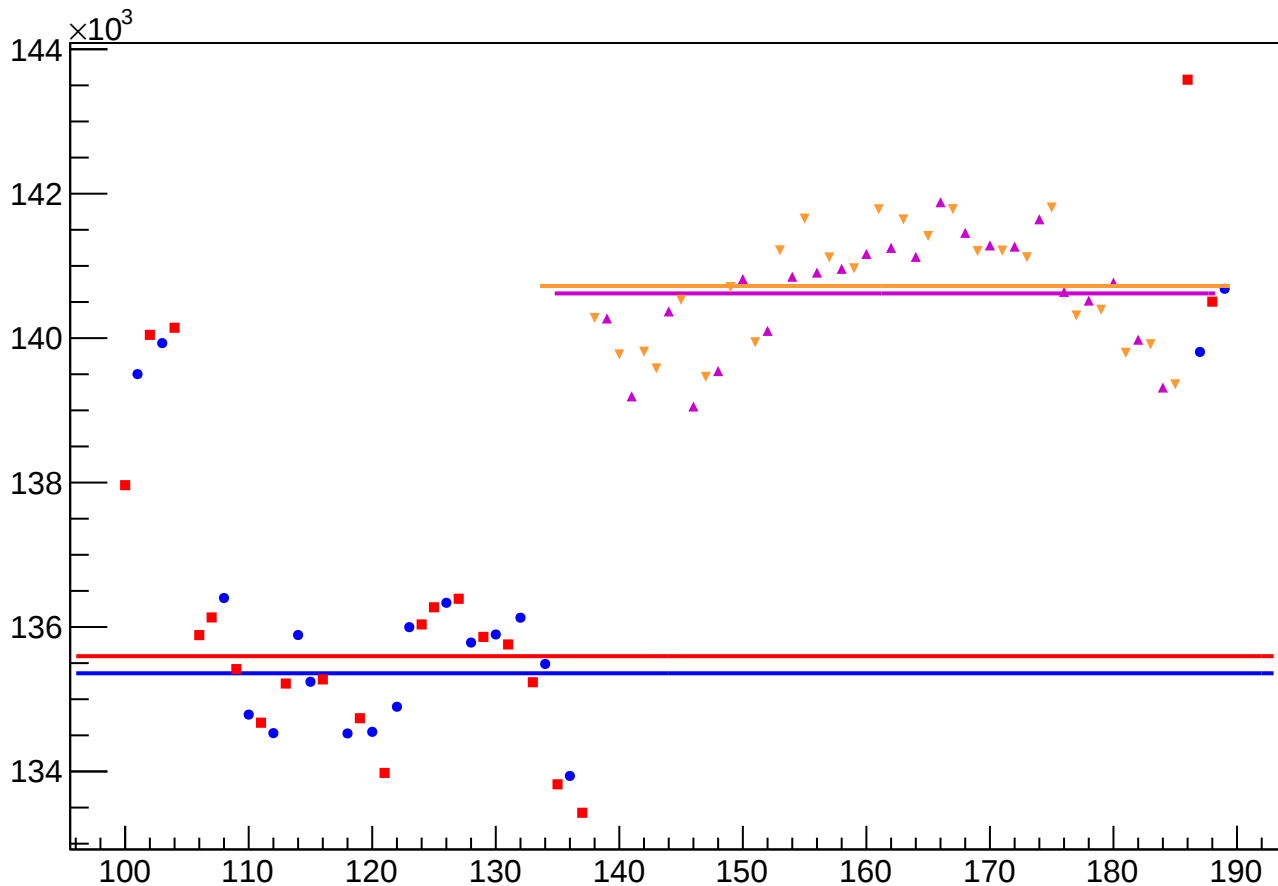
Right: 273.743 $\pm$ 0.053 χ^2 /NDF: 3194864.3/39

In: 275.996 $\pm$ 0.041 χ^2 /NDF:3763634.2/41

Out: 262.777 $\pm$ 0.038 χ^2 /NDF:4450326.0/45

All: 268.831 $\pm$ 0.028 χ^2 /NDF: 8269153.2/87

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135359.430 $\pm$ 0.054 χ^2 /NDF: 626983342.4/18

Left Out: 140721.823 $\pm$ 0.048 χ^2 /NDF: 247257762.8/24

Right Out: 135596.215 $\pm$ 0.050 χ^2 /NDF: 1074871244.8/20

Left In: 140619.038 $\pm$ 0.051 χ^2 /NDF: 200370178.0/22

Left: 140673.196 $\pm$ 0.035 χ^2 /NDF: 449761004.9/47

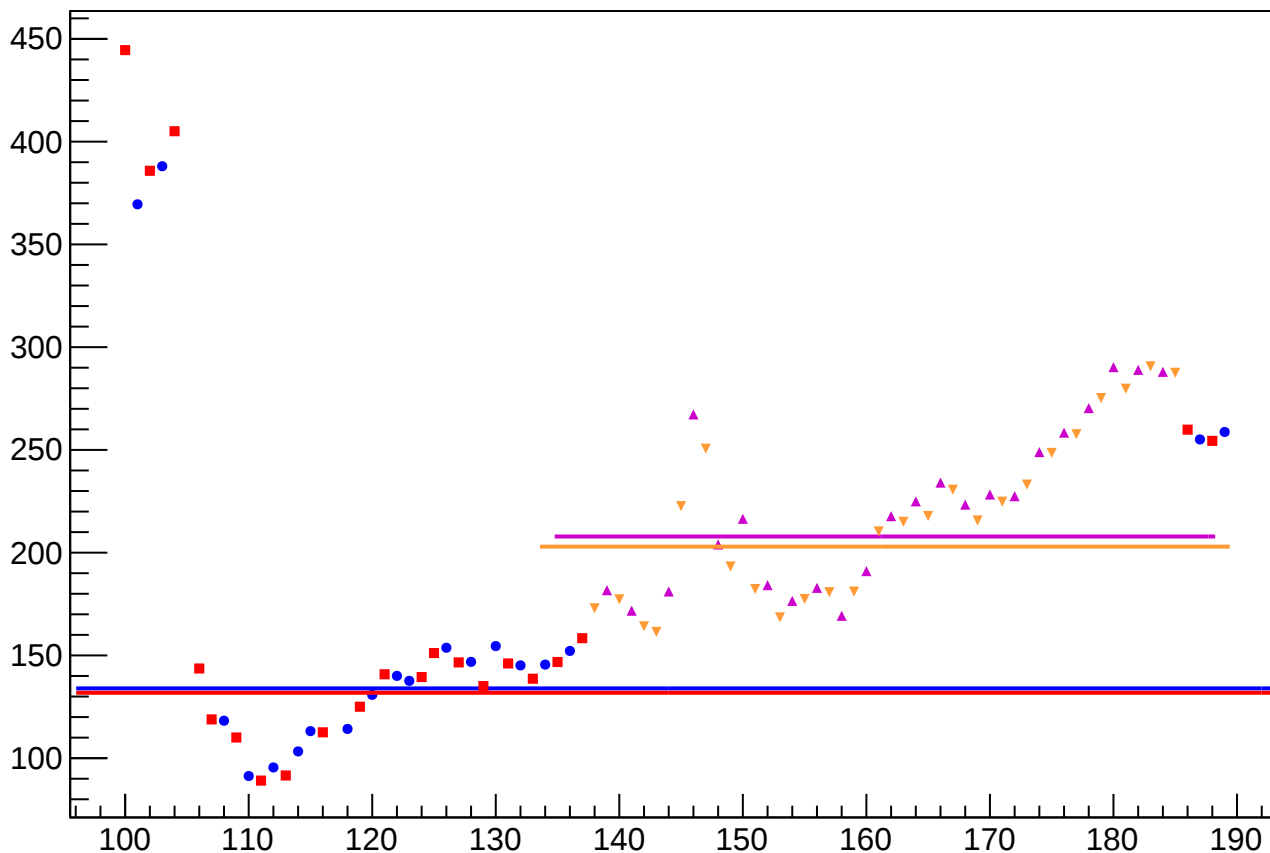
Right: 135486.416 $\pm$ 0.037 χ^2 /NDF: 1712287907.6/47

In: 138119.594 $\pm$ 0.037 χ^2 /NDF: 5864702495.8/47

Out: 138237.826 $\pm$ 0.035 χ^2 /NDF: 6755737115.2/47

All: 138182.424 $\pm$ 0.025 χ^2 /NDF: 126258636.0/94

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: 131.827 $\pm$ 0.035 χ^2 /NDF: 2056298.6/20

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

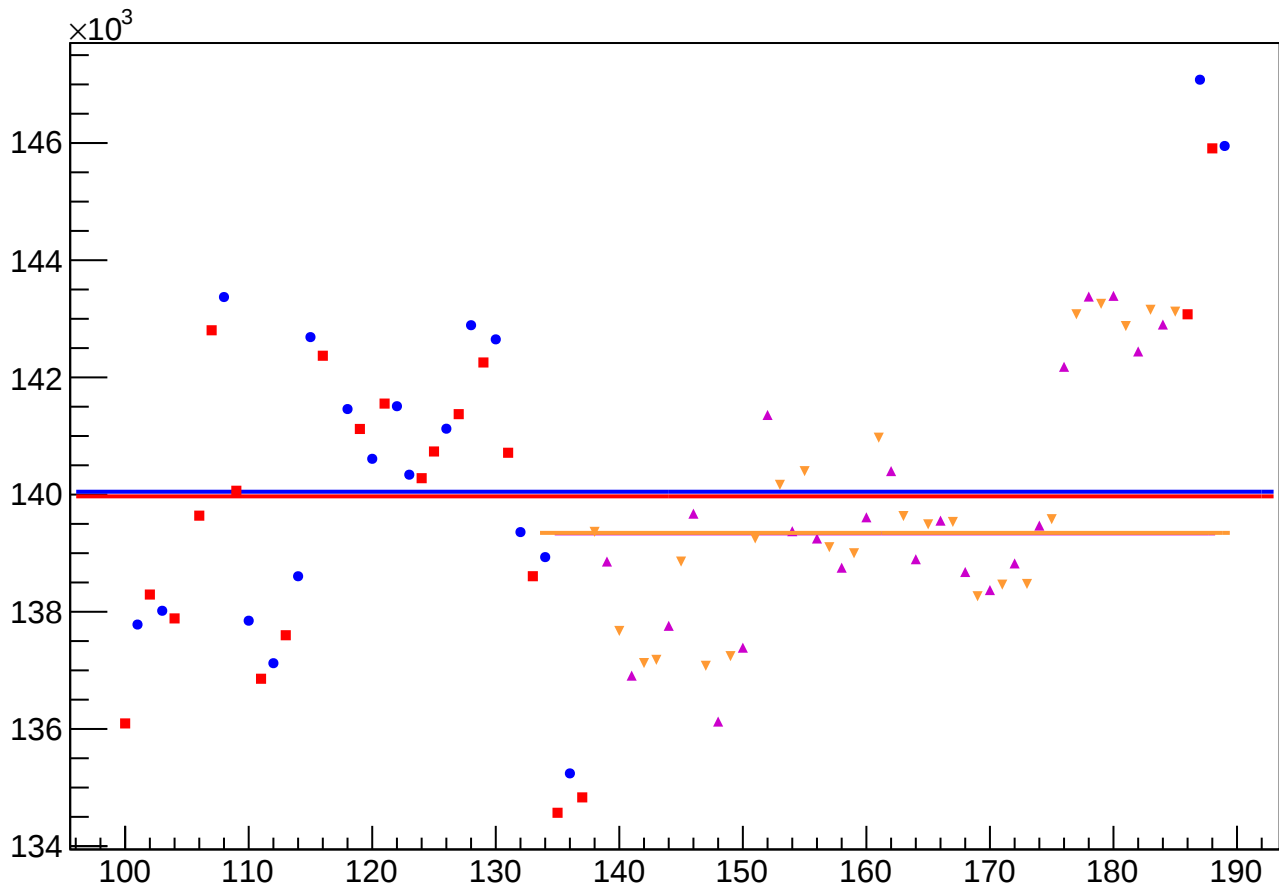
Right: 132.813 $\pm$ 0.026 χ^2 /NDF: 3729873.1/39

In: 172.745 $\pm$ 0.026 χ^2 /NDF:4610973.2/41

Out: 168.474 $\pm$ 0.025 χ^2 /NDF:5200043.8/45

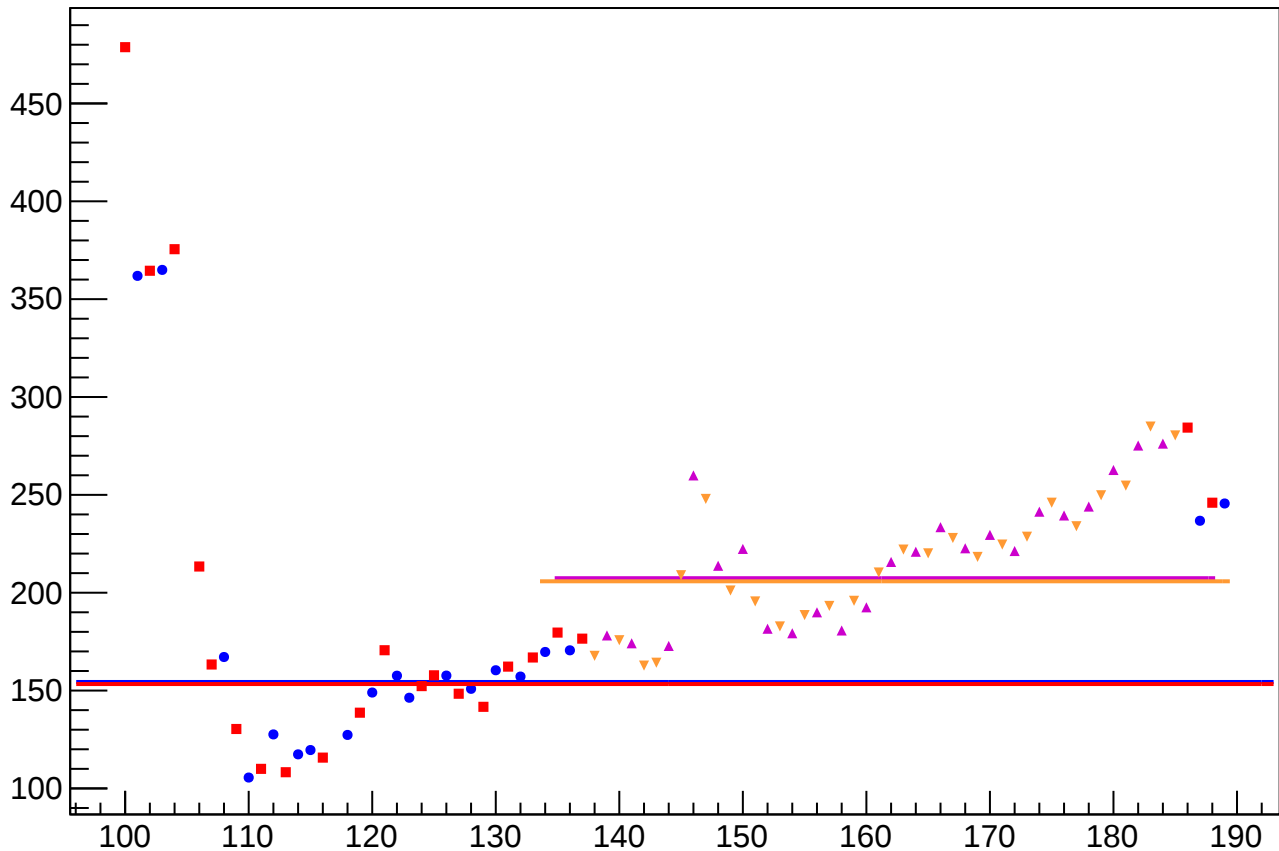
All: 170.475 $\pm$ 0.018 χ^2 /NDF: 9825172.8/87

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140048.882 $\pm$ 0.061	χ^2 /NDF: 2091809414.0/18	Left: 139342.403 $\pm$ 0.035	χ^2 /NDF: 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2 /NDF: 1271172976.7/24	Right: 140006.849 $\pm$ 0.042	χ^2 /NDF: 4184232184.2/4
Right Out: 139969.700 $\pm$ 0.057	χ^2 /NDF: 2091523328.5/20	In: 139630.263 $\pm$ 0.039	χ^2 /NDF: 3465248574.3/4
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139610.180 $\pm$ 0.037	χ^2 /NDF: 3431195785.4/4
		All: 139619.744 $\pm$ 0.027	χ^2 /NDF: 689658320.0/4

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 154.389 $\pm$ 0.043 χ^2 /NDF: 1224671.9/18

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 153.333 $\pm$ 0.040 χ^2 /NDF: 1635030.8/20

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

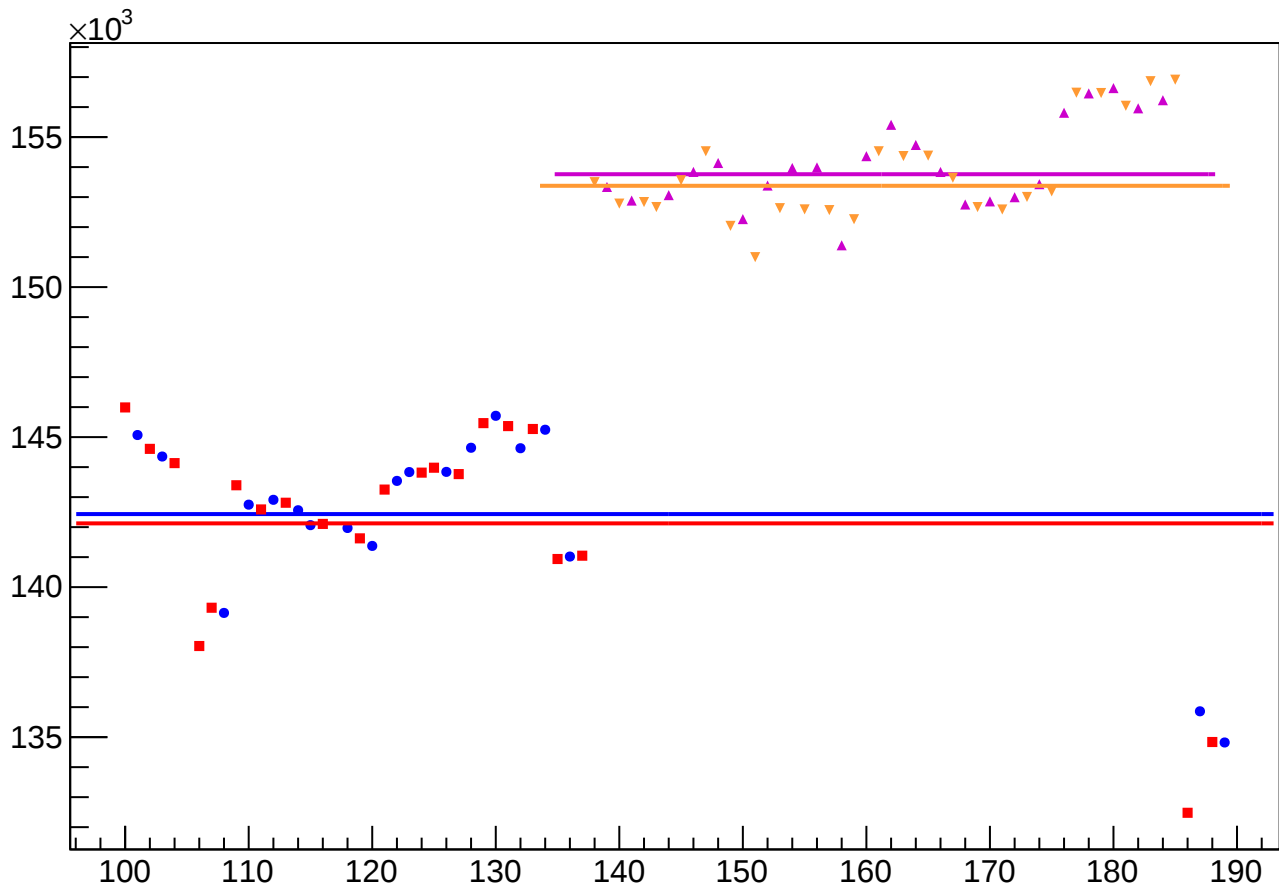
Right: 153.829 $\pm$ 0.029 χ^2 /NDF: 2860022.7/39

In: 185.610 $\pm$ 0.028 χ^2 /NDF: 2821409.9/41

Out: 183.625 $\pm$ 0.026 χ^2 /NDF: 3346252.3/45

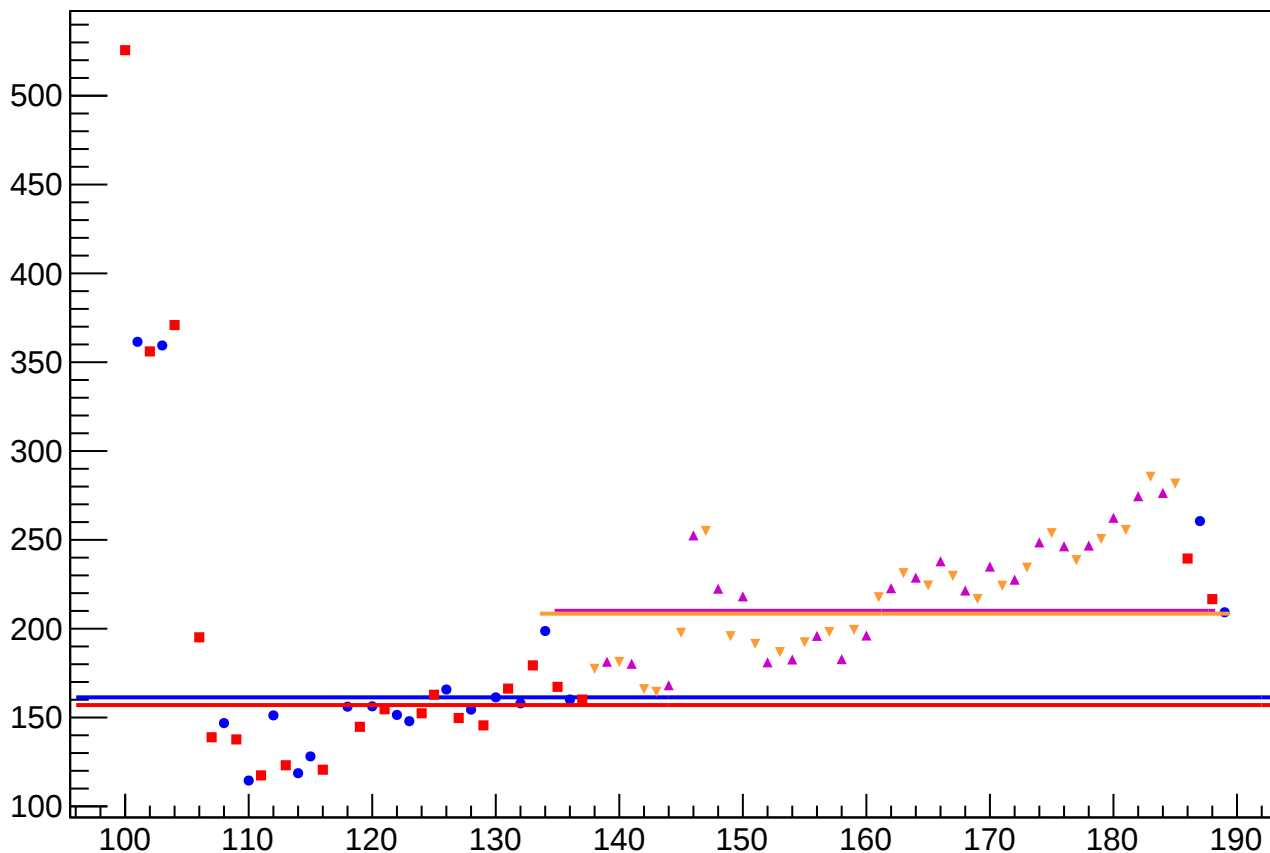
All: 184.570 $\pm$ 0.019 χ^2 /NDF: 6170374.4/87

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: 142266.472 $\pm$ 0.043	χ^2 /NDF: 4108360350.6/4
Right Out: 142124.964 $\pm$ 0.058	χ^2 /NDF: 2586779493.1/20	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: 148614.228 $\pm$ 0.038	χ^2 /NDF: 25228662733.4/4
		All: 148907.092 $\pm$ 0.027	χ^2 /NDF: 46873443/4

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: 157.008 $\pm$ 0.041 χ^2/NDF : 1241368.0/20

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

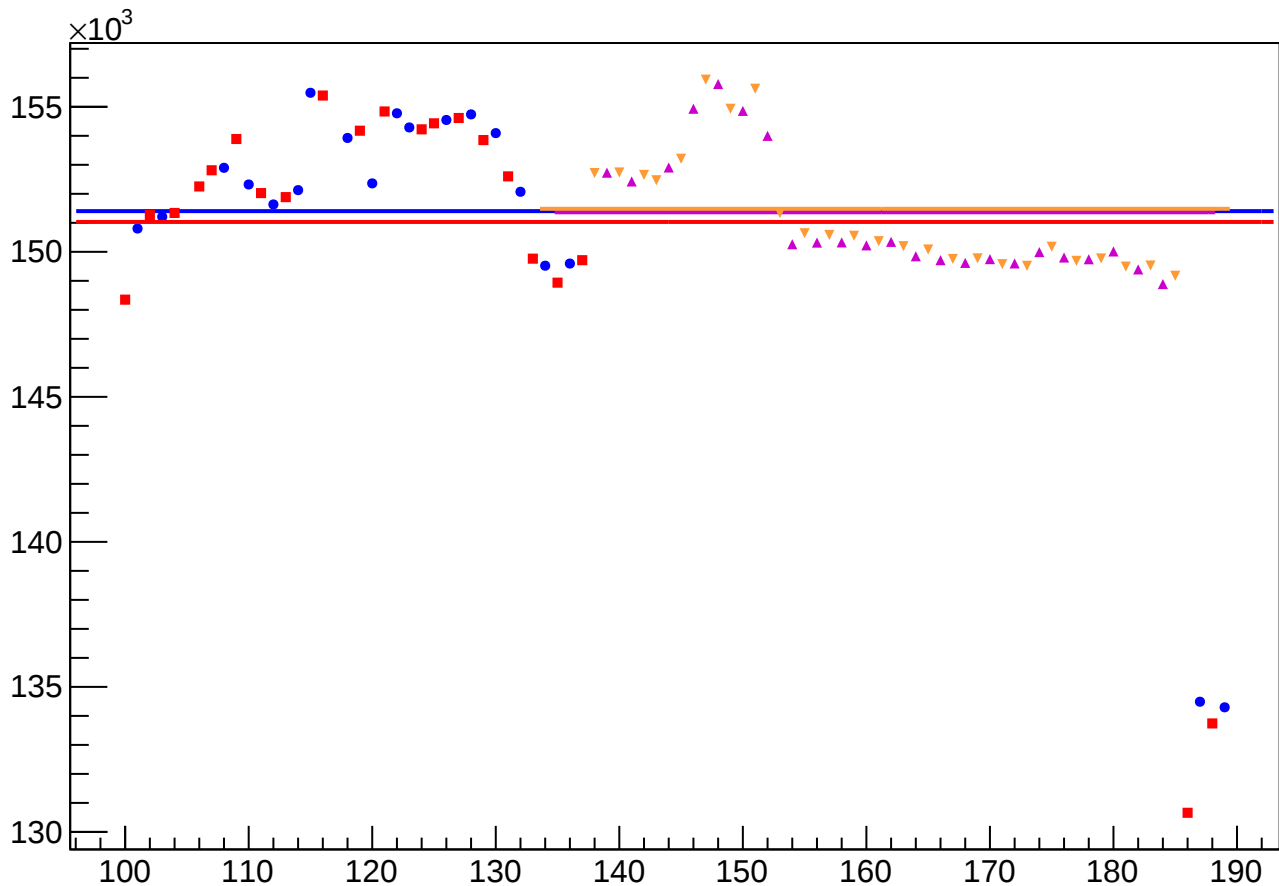
Right: 158.995 $\pm$ 0.030 χ^2/NDF : 2228459.6/39

In: 190.586 $\pm$ 0.028 χ^2/NDF : 2399803.7/41

Out: 186.685 $\pm$ 0.027 χ^2/NDF : 2875779.4/45

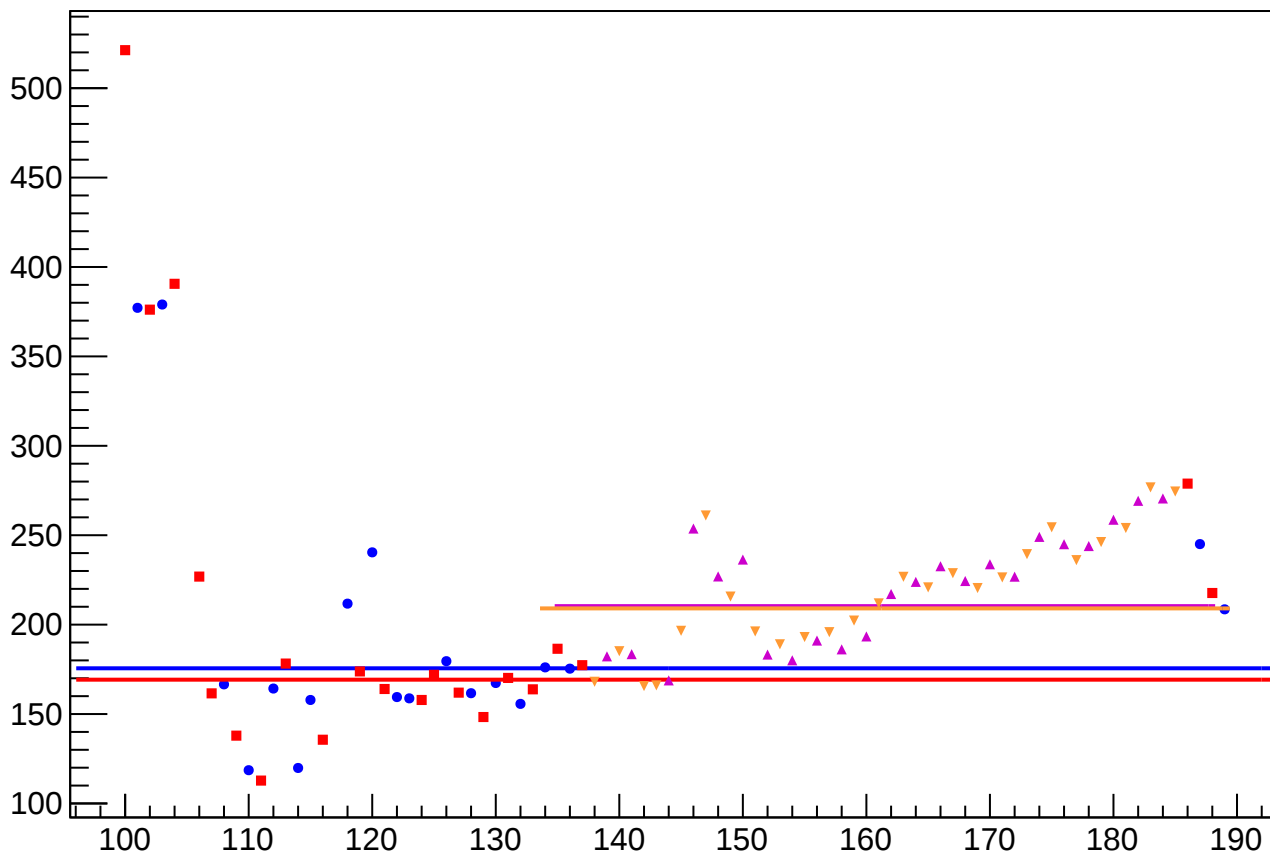
All: 188.523 $\pm$ 0.019 χ^2/NDF : 5285711.9/87

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 151402.986+/-0.070	χ^2/NDF : 4820368810.9/18	Left: 151425.512+/-0.036	χ^2/NDF : 2906409079.9/4
Left Out: 151483.385+/-0.050	χ^2/NDF : 1481910066.9/24	Right: 151197.821+/-0.047	χ^2/NDF : 13856056375.7
Right Out: 151030.453+/-0.063	χ^2/NDF : 9020024519.4/20	In: 151377.152+/-0.041	χ^2/NDF : 6242241723.2/41
Left In: 151363.165+/-0.051	χ^2/NDF : 1421662089.0/22	Out: 151310.717+/-0.039	χ^2/NDF : 10533823423.7
		All: 151341.915+/-0.028	χ^2/NDF : 167774309

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 175.581+/-0.049 χ^2/NDF : 995842.4/18

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 169.220+/-0.045 χ^2/NDF : 1254076.0/20

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

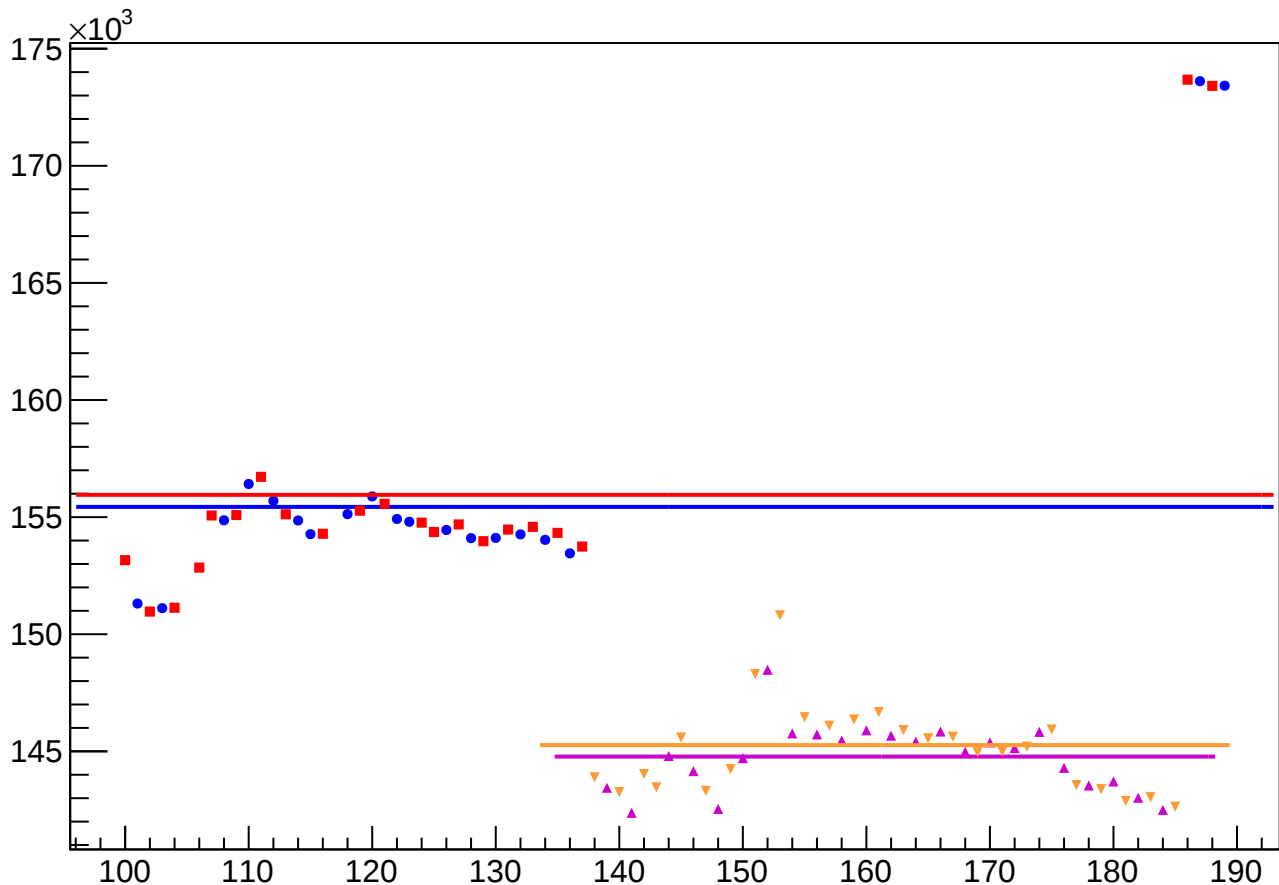
Right: 172.077+/-0.033 χ^2/NDF : 2259052.0/39

In: 198.134+/-0.029 χ^2/NDF : 1994936.5/41

Out: 193.882+/-0.028 χ^2/NDF : 2456191.6/45

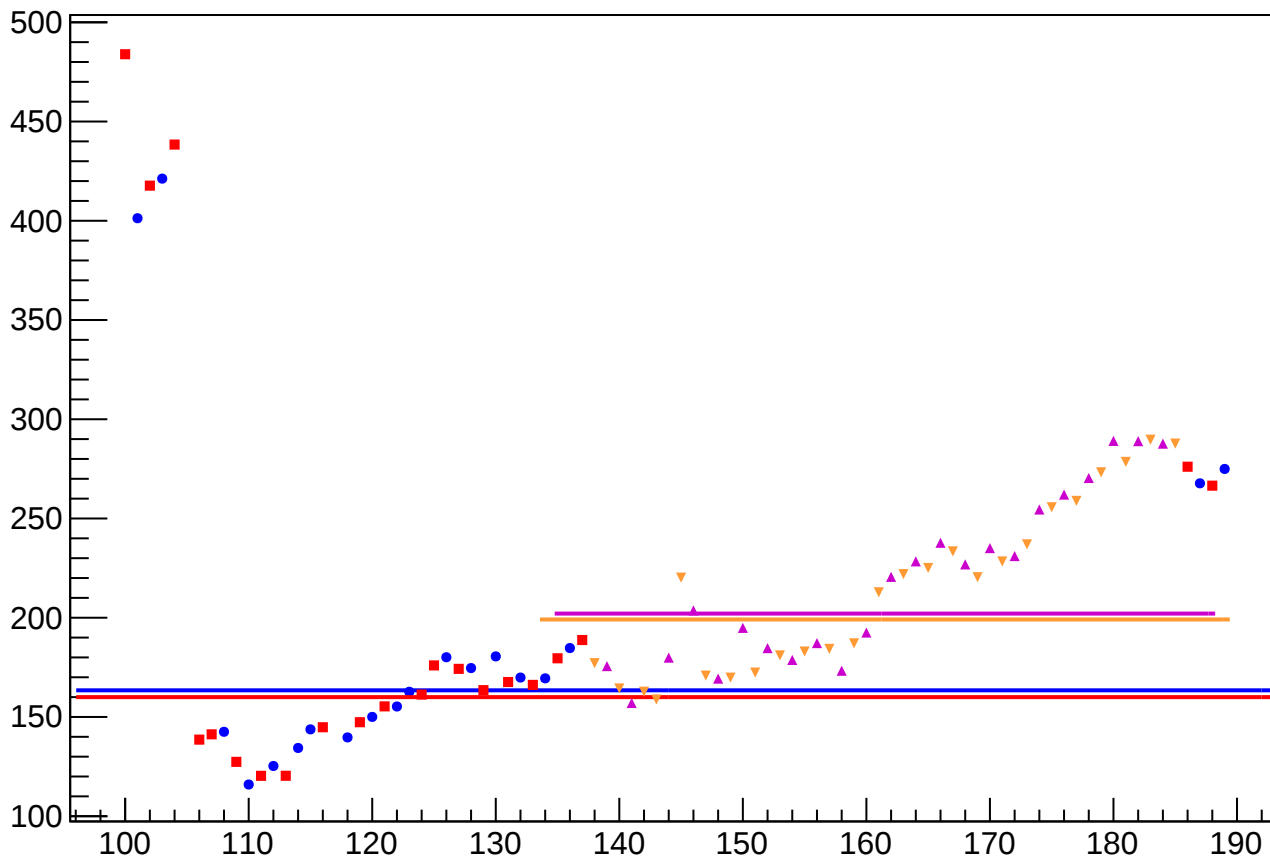
All: 195.878+/-0.020 χ^2/NDF : 4462316.8/87

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 : 2687033506.0/18
Left Out: 145266.717+/-0.047	χ^2/NDF : 1717707352.7/24	Right: 155716.512+/-0.043	χ^2/NDF : 9120809712.6/18
Right Out: 155951.730+/-0.059	χ^2/NDF : 5977664452.2/20	In: 148747.602+/-0.039	χ^2/NDF : 21265545701.9/18
Left In: 144776.016+/-0.050	χ^2/NDF : 918120275.4/22	Out: 149454.783+/-0.037	χ^2/NDF : 27618037494.3/18
		All: 149122.530+/-0.027	χ^2/NDF : 490556212.0/18

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: 159.999 $\pm$ 0.042 χ^2 /NDF: 1611870.8/20

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

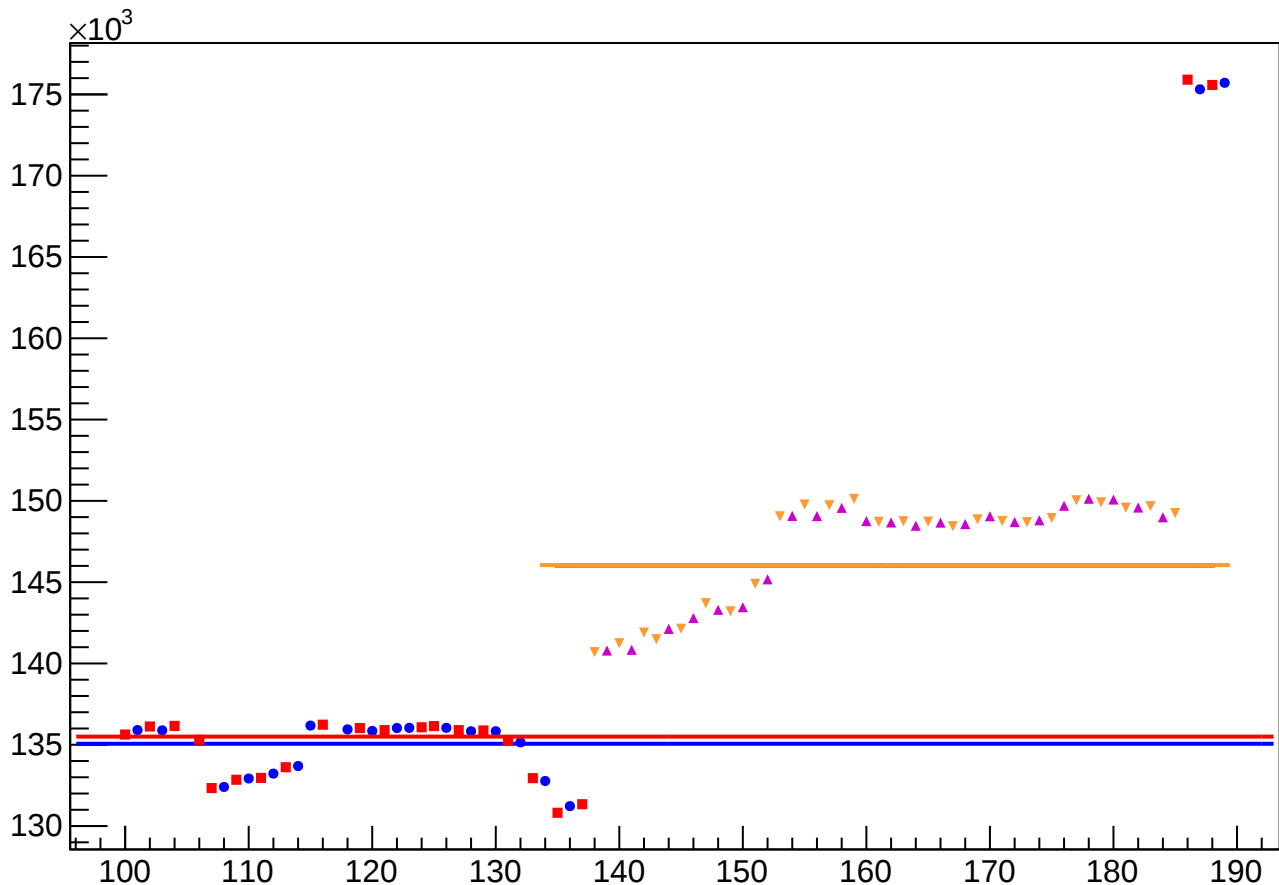
Right: 161.567 $\pm$ 0.031 χ^2 /NDF: 2957338.1/39

In: 187.688 $\pm$ 0.028 χ^2 /NDF:2853610.2/41

Out: 183.785 $\pm$ 0.026 χ^2 /NDF:3298186.9/45

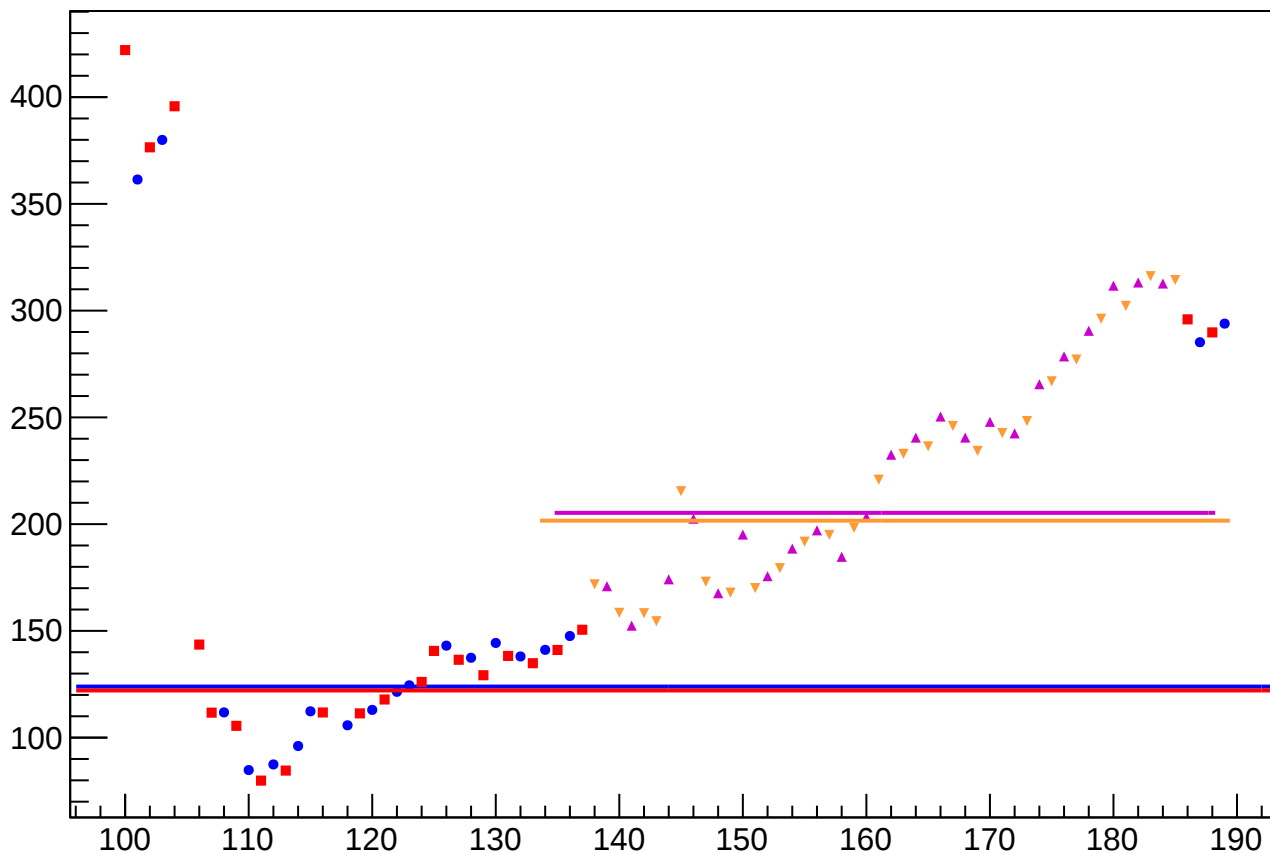
All: 185.619 $\pm$ 0.019 χ^2 /NDF: 6162277.7/87

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: 135295.260 $\pm$ 0.034	χ^2 /NDF: 39489954353.1/18
Right Out: 135500.950 $\pm$ 0.047	χ^2 /NDF: 25897801822.1/20	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: 140590.744 $\pm$ 0.034	χ^2 /NDF: 55994792332.4/18
		All: 140529.655 $\pm$ 0.024	χ^2 /NDF: 978914464.1/18

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: 122.091 $\pm$ 0.033 χ^2 /NDF: 2414816.8/20

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

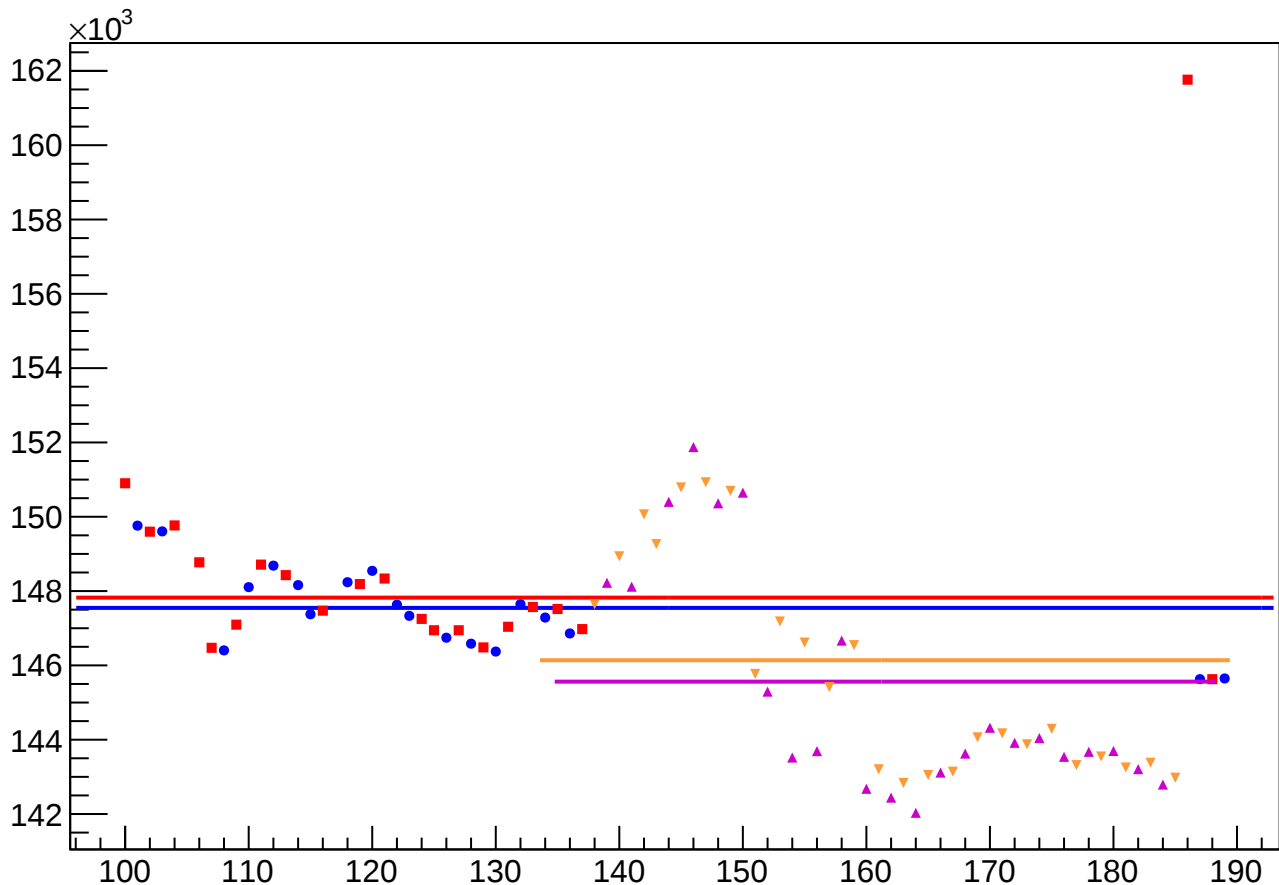
Right: 122.937 $\pm$ 0.024 χ^2 /NDF: 4306503.1/39

In: 164.012 $\pm$ 0.025 χ^2 /NDF:5933816.7/41

Out: 160.462 $\pm$ 0.024 χ^2 /NDF:6811256.3/45

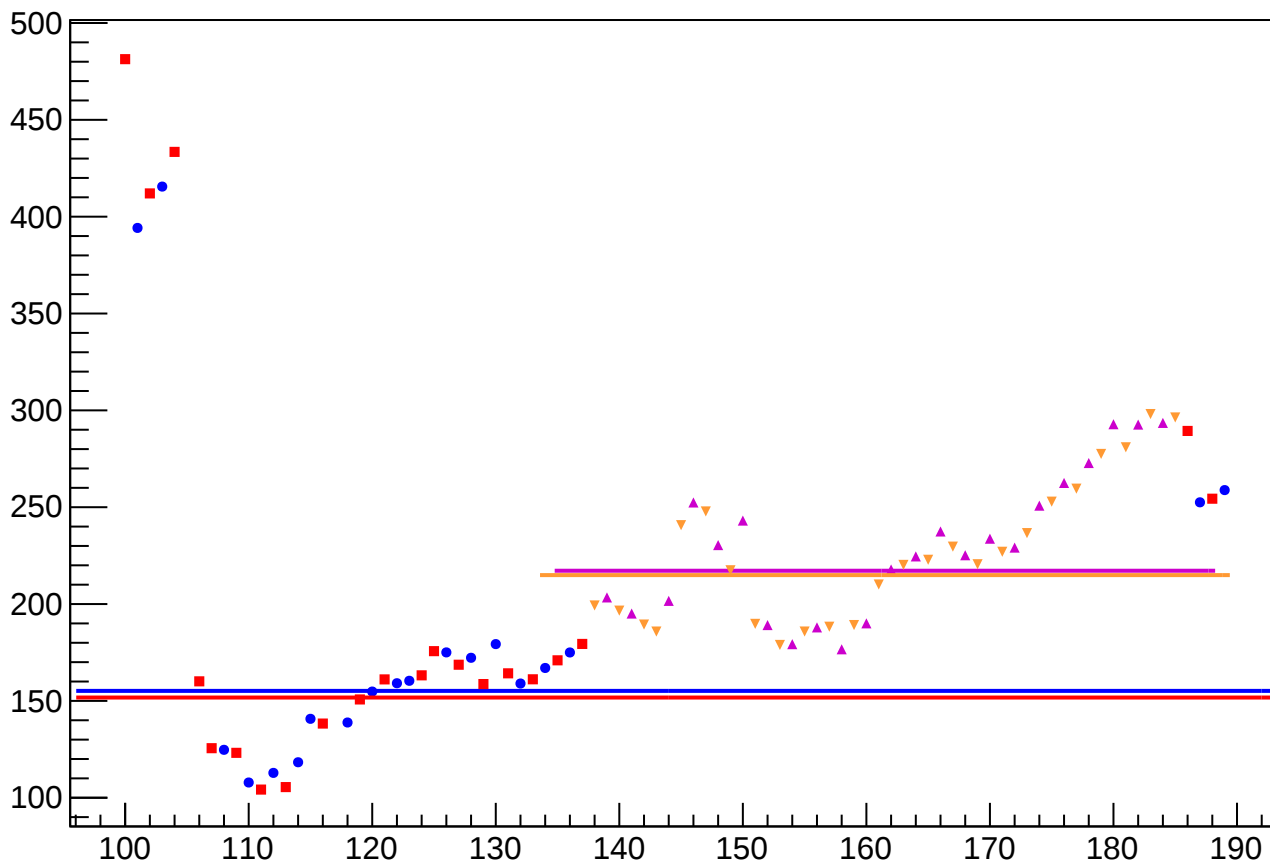
All: 162.134 $\pm$ 0.017 χ^2 /NDF: 12755620.8/87

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: 147696.783 $\pm$ 0.042	χ^2 /NDF: 1397908724.0/4
Right Out: 147823.735 $\pm$ 0.057	χ^2 /NDF: 1152602742.6/20	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: 146892.200 $\pm$ 0.038	χ^2 /NDF: 4341523029.3/4
		All: 146665.498 $\pm$ 0.028	χ^2 /NDF: 830438480.0/4

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: 151.733 $\pm$ 0.040 χ^2/NDF : 1856575.7/20

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

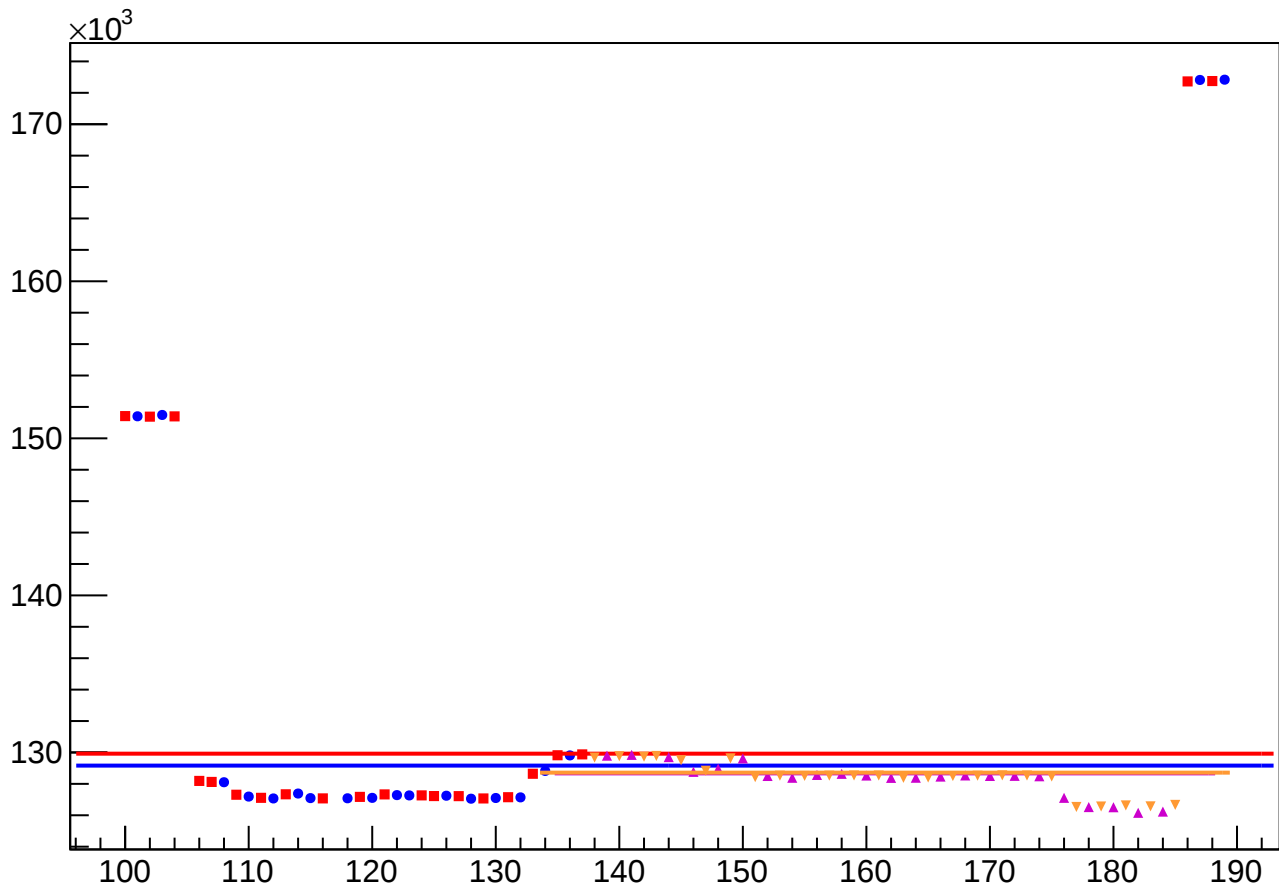
Right: 153.311 $\pm$ 0.029 χ^2/NDF : 3325755.8/39

In: 190.703 $\pm$ 0.028 χ^2/NDF : 3398084.6/41

Out: 186.691 $\pm$ 0.027 χ^2/NDF : 3963479.2/45

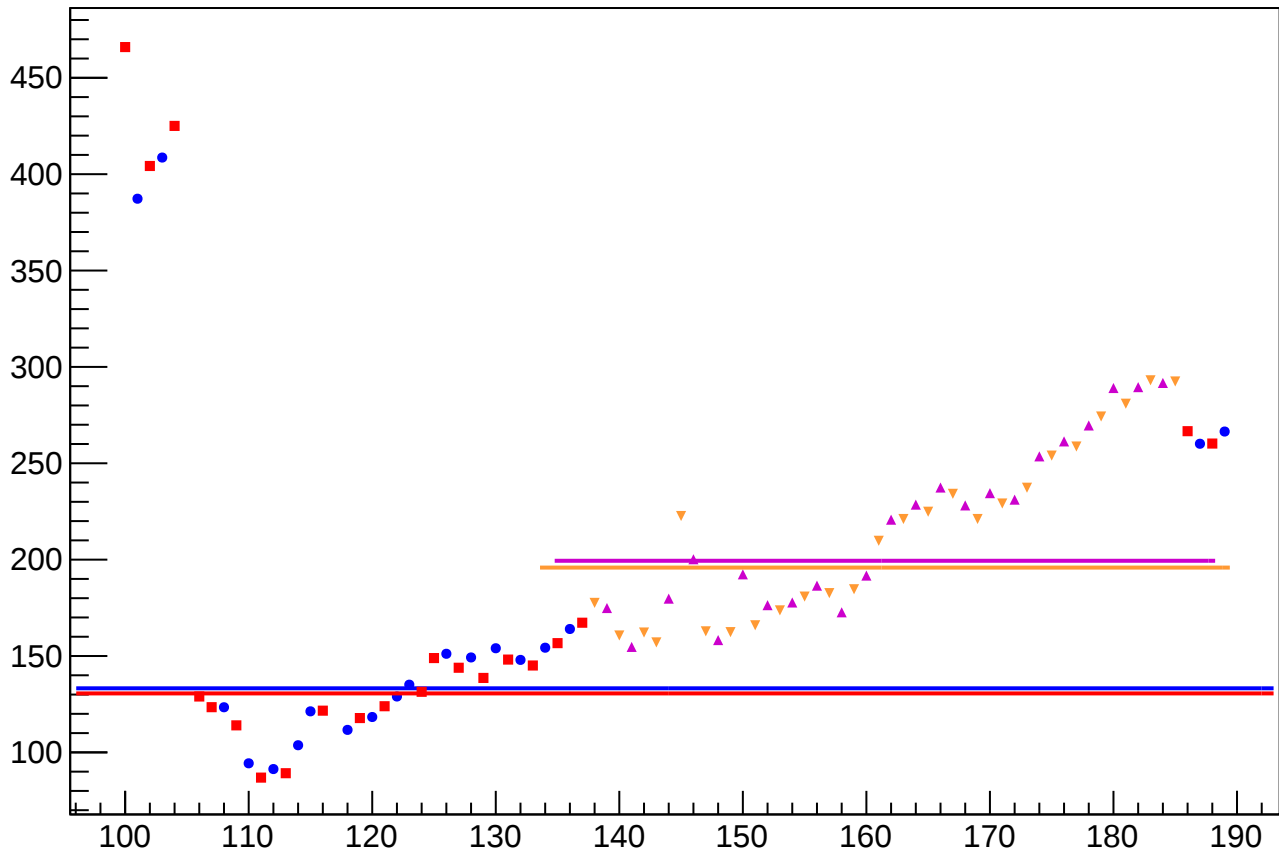
All: 188.579 $\pm$ 0.019 χ^2/NDF : 7372127.8/87

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 129162.130+/-0.054	χ^2/NDF : 21890497397.3/18	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 129573.371+/-0.036	χ^2/NDF : 60909391519.7
Right Out: 129921.838+/-0.049	χ^2/NDF : 38909793127.0/20	In: 128892.780+/-0.036	χ^2/NDF : 22270127137.4/4
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 129285.968+/-0.034	χ^2/NDF : 39574355803.5
		All: 129101.970+/-0.025	χ^2/NDF : 619074733

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 133.243+/-0.038 χ^2/NDF : 1803280.0/18

Left Out: 195.883+/-0.033 χ^2/NDF :1313361.5/24

Right Out: 130.594+/-0.035 χ^2/NDF : 2189574.9/20

Left In: 199.413+/-0.035 χ^2/NDF :1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

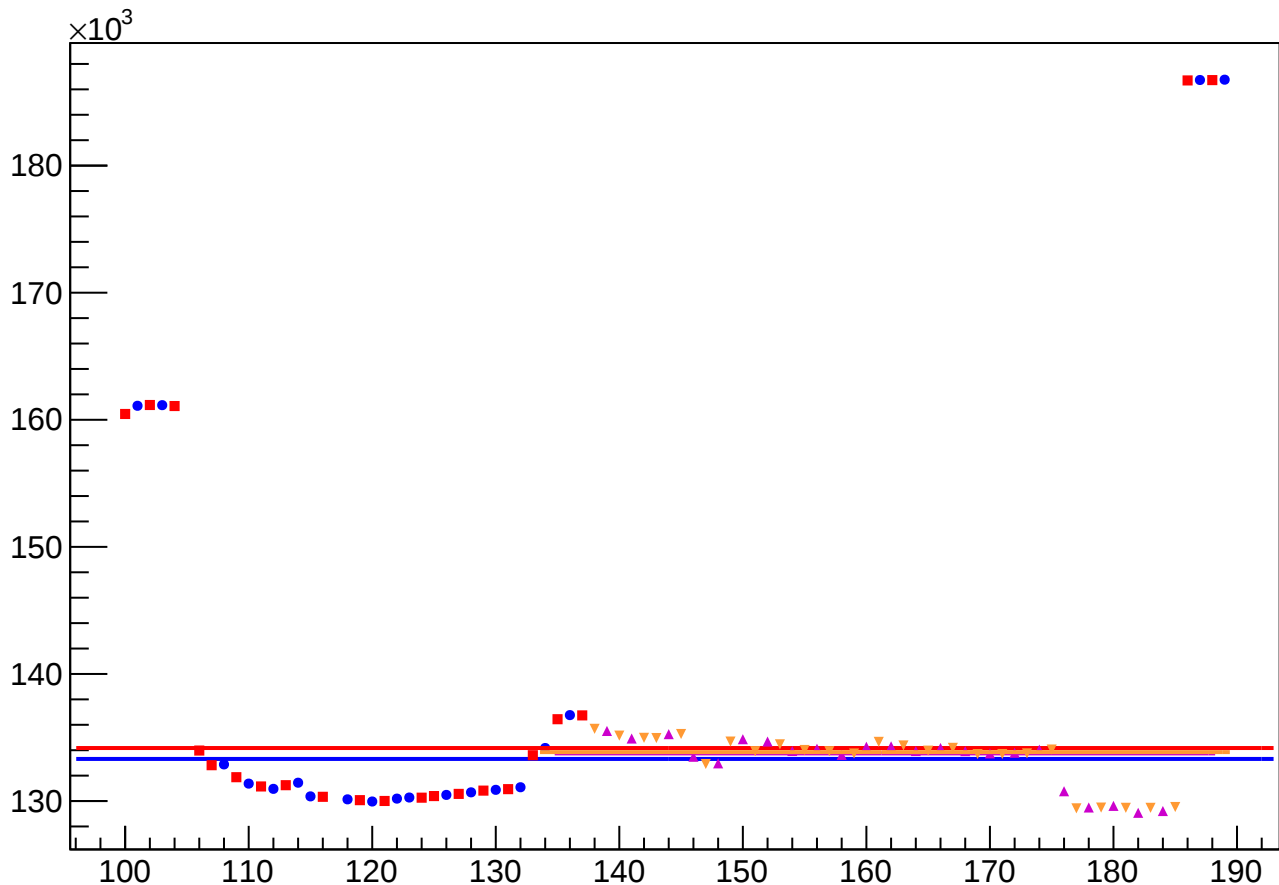
Right: 131.809+/-0.026 χ^2/NDF : 3995508.0/39

In: 169.240+/-0.026 χ^2/NDF :4632608.9/41

Out: 164.980+/-0.024 χ^2/NDF :5353374.1/45

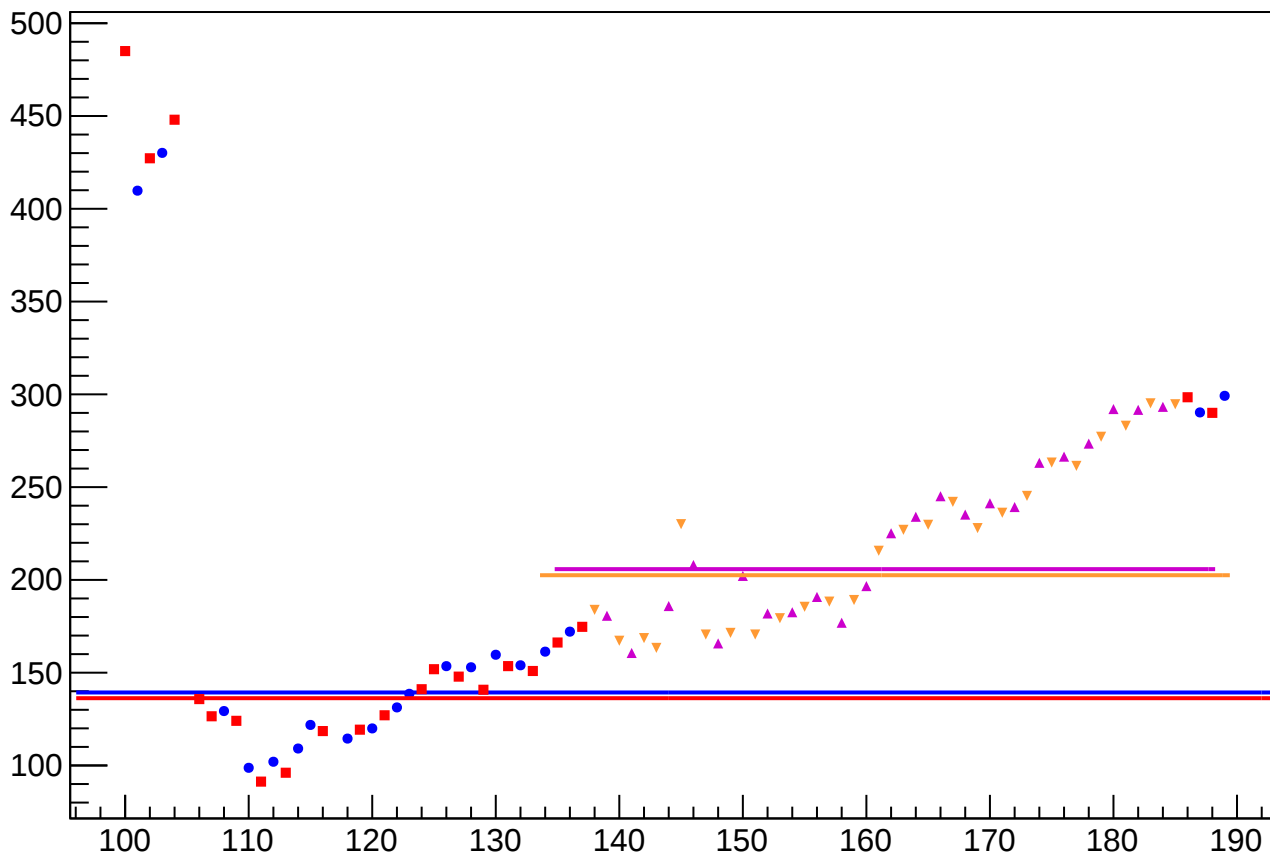
All: 166.974+/-0.017 χ^2/NDF : 10000776.7/87

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: 133778.323 $\pm$ 0.038	χ^2 /NDF: 75880738573.1/18
Right Out: 134171.933 $\pm$ 0.052	χ^2 /NDF: 48155244969.3/20	In: 133553.826 $\pm$ 0.038	χ^2 /NDF: 28585640304.3/4
Left In: 133749.630 $\pm$ 0.051	χ^2 /NDF: 954069486.7/22	Out: 134000.696 $\pm$ 0.035	χ^2 /NDF: 49256097721.0/18
		All: 133791.387 $\pm$ 0.026	χ^2 /NDF: 779172252.1/18

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: 136.255 $\pm$ 0.036 χ^2/NDF : 2246315.2/20

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

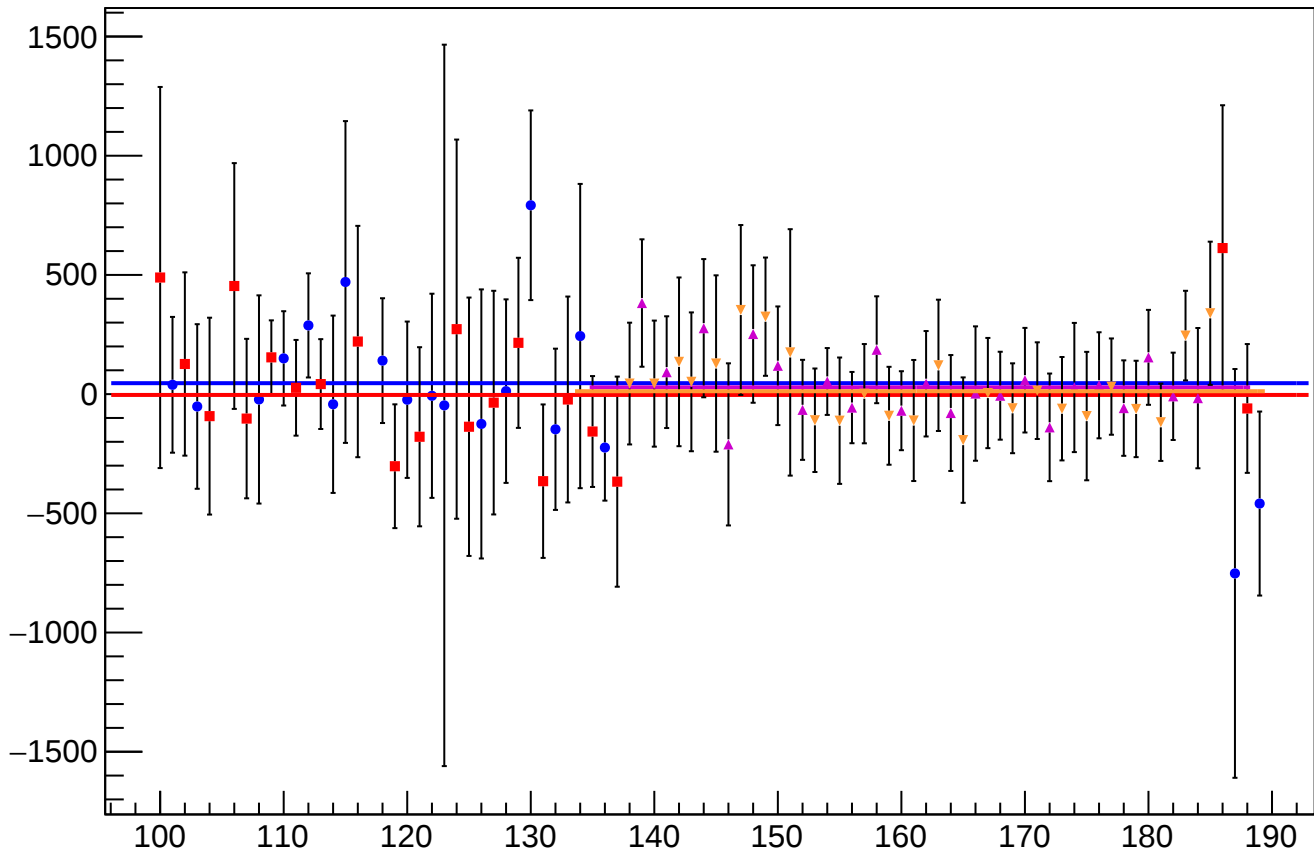
Right: 137.669 $\pm$ 0.027 χ^2/NDF : 4055415.8/39

In: 175.972 $\pm$ 0.027 χ^2/NDF :4454566.0/41

Out: 171.570 $\pm$ 0.025 χ^2/NDF :5222930.2/45

All: 173.632 $\pm$ 0.018 χ^2/NDF : 9692144.1/87

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 45.939+/-77.298 χ^2/NDF : 10.4/18

Left Out: 12.180+/-47.531 χ^2/NDF : 8.6/24

Right Out: -3.430+/-67.404 χ^2/NDF : 8.3/20

Left In: 28.452+/-44.688 χ^2/NDF : 6.7/22

Left: 20.817+/-32.558 χ^2/NDF : 15.3/47

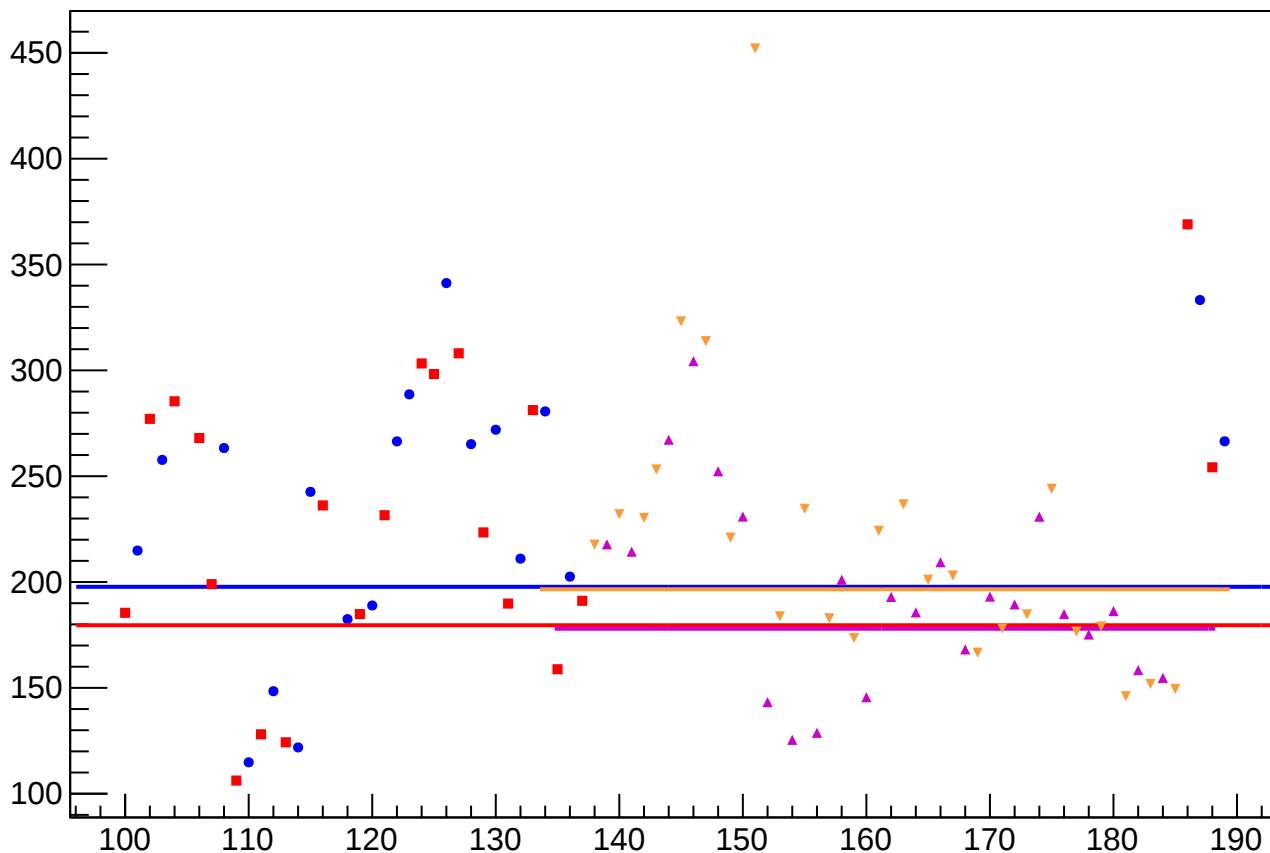
Right: 17.894+/-50.802 χ^2/NDF : 18.9/39

In: 32.832+/-38.688 χ^2/NDF : 17.0/41

Out: 6.996+/-38.844 χ^2/NDF : 16.9/45

All: 19.966+/-27.412 χ^2/NDF : 34.2/87

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 197.749 ± 0.055 χ^2/NDF : 1136653.6/18

Left Out: 196.576 ± 0.034 χ^2/NDF : 1778719.0/24

Right Out: 179.578 ± 0.048 χ^2/NDF : 1950612.9/20

Left In: 177.933 ± 0.032 χ^2/NDF : 1605780.8/22

Left: 186.680 ± 0.023 χ^2/NDF : 3547823.4/47

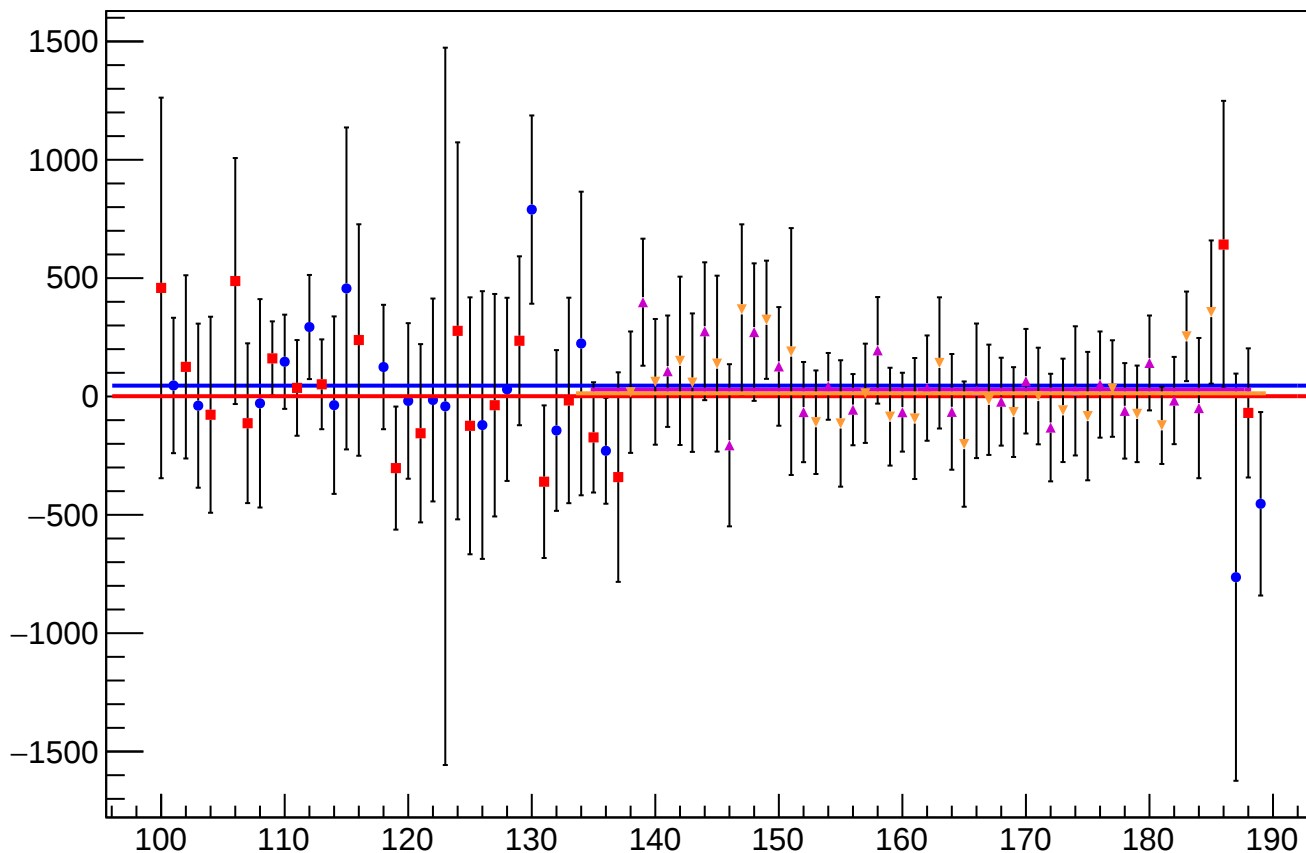
Right: 187.427 ± 0.036 χ^2/NDF : 3150053.8/39

In: 182.897 ± 0.027 χ^2/NDF : 2840951.7/41

Out: 190.931 ± 0.027 χ^2/NDF : 3814285.2/45

All: 186.898 ± 0.019 χ^2/NDF : 6698183.2/87

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: 1.197+/-67.786 χ^2/NDF : 8.6/20

Left In: 28.806+/-44.980 χ^2/NDF : 6.8/22

Left: 21.578+/-32.777 χ^2/NDF : 15.9/47

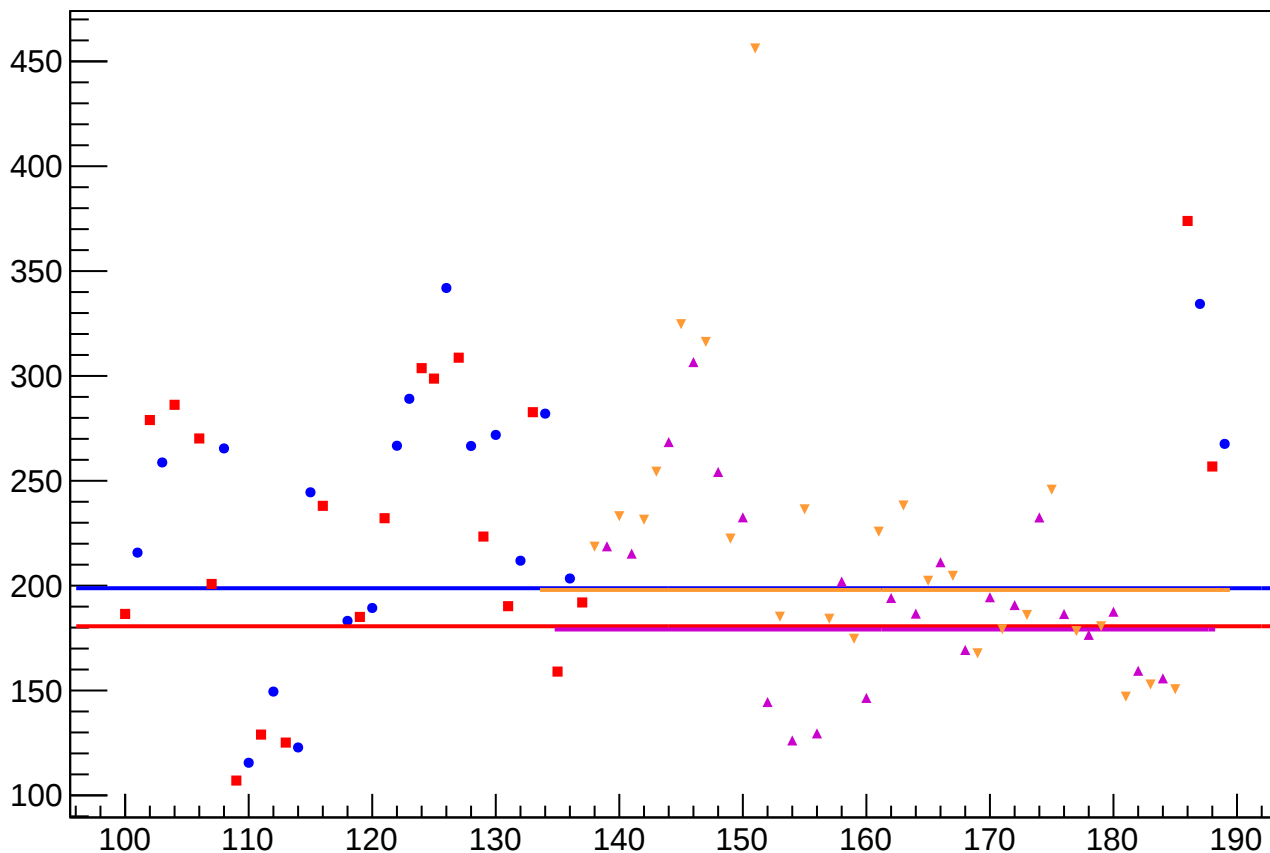
Right: 20.489+/-51.072 χ^2/NDF : 19.0/39

In: 33.079+/-38.924 χ^2/NDF : 17.1/41

Out: 9.336+/-39.098 χ^2/NDF : 17.6/45

All: 21.261+/-27.585 χ^2/NDF : 34.9/87

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: 180.636 $\pm$ 0.048 χ^2 /NDF: 1944613.3/20

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

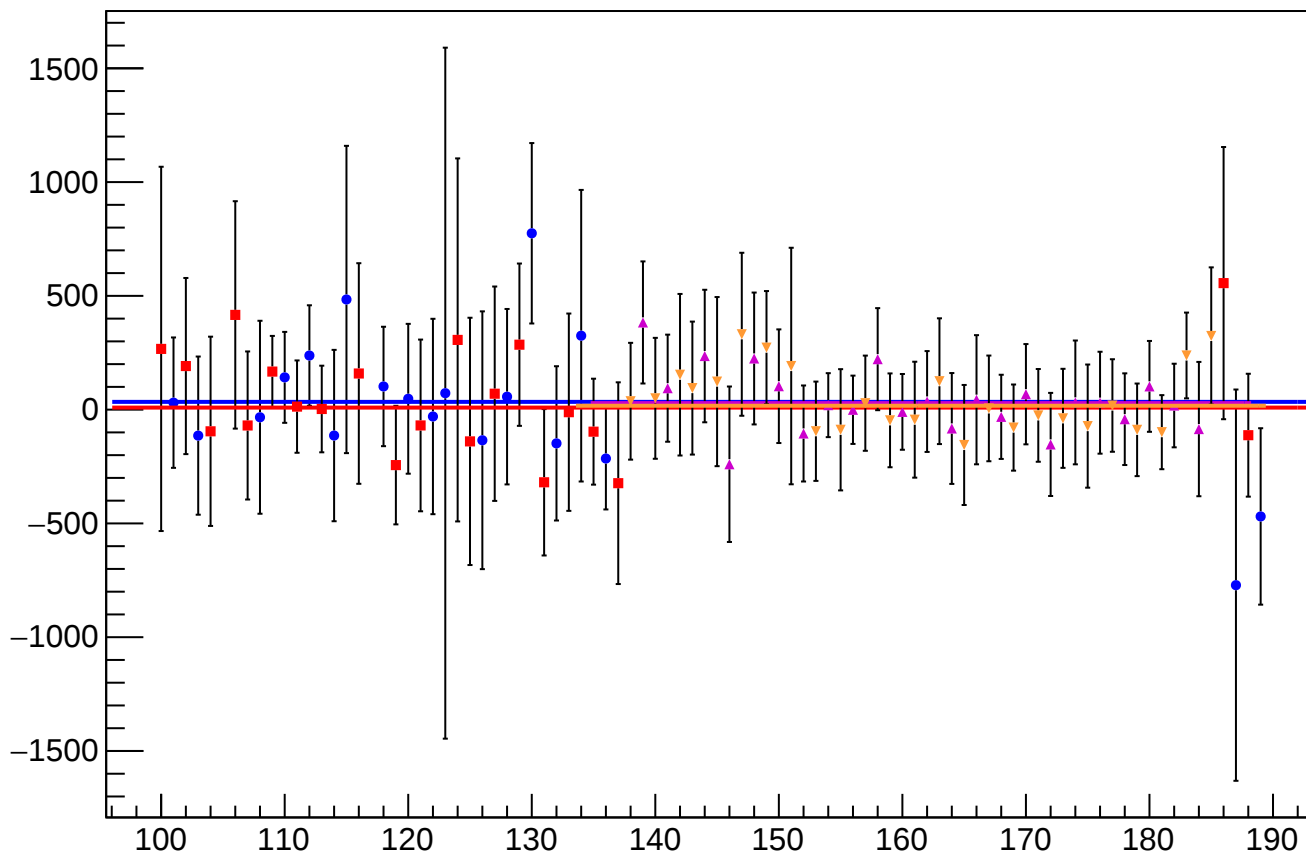
Right: 188.477 $\pm$ 0.036 χ^2 /NDF: 3134082.3/39

In: 184.032 $\pm$ 0.028 χ^2 /NDF:2828855.8/41

Out: 192.192 $\pm$ 0.028 χ^2 /NDF:3806234.4/45

All: 188.094 $\pm$ 0.020 χ^2 /NDF: 6678836.7/87

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: 8.995 $\pm$ 67.660 χ^2 /NDF: 6.9/20

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

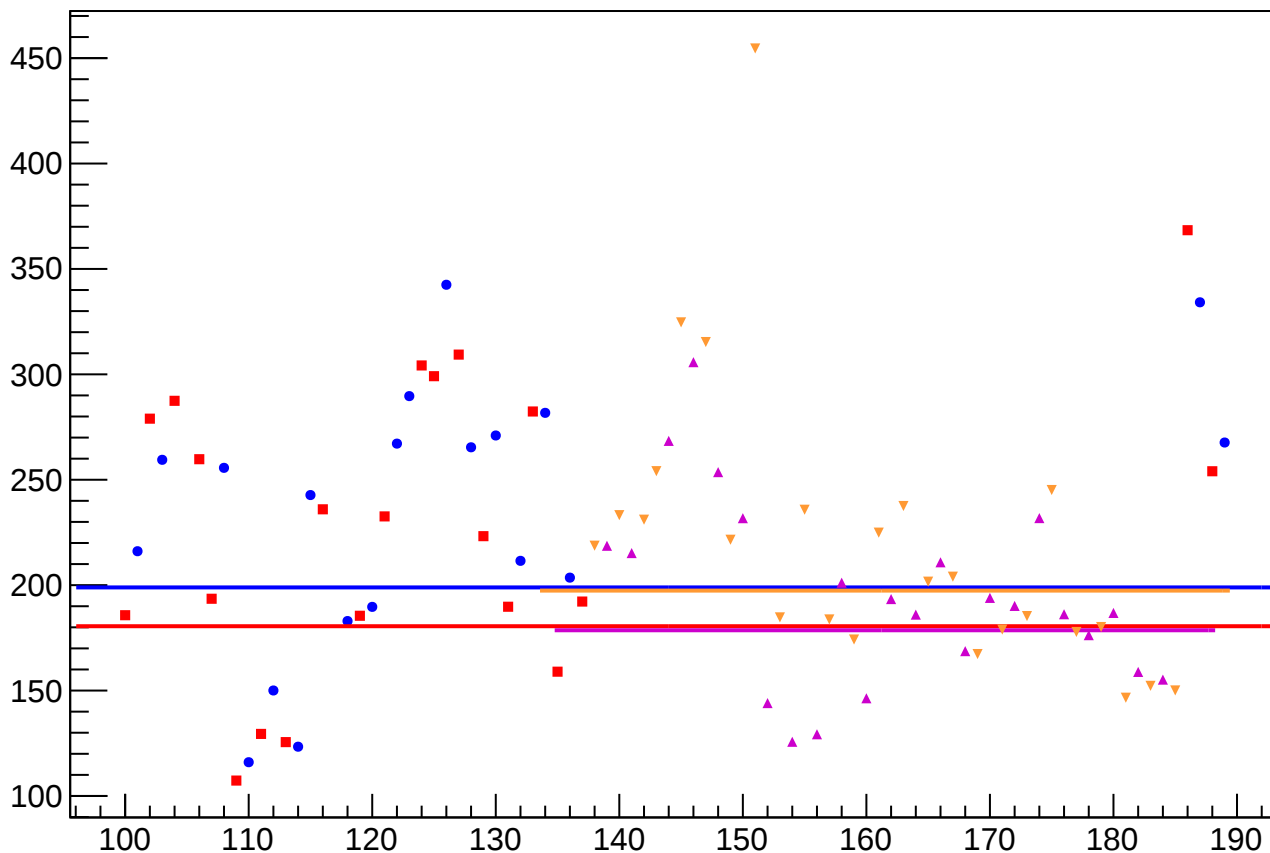
Right: 19.844 $\pm$ 51.017 χ^2 /NDF: 16.9/39

In: 30.028 $\pm$ 38.846 χ^2 /NDF: 16.1/41

Out: 14.434 $\pm$ 39.006 χ^2 /NDF: 14.0/45

All: 22.263 $\pm$ 27.525 χ^2 /NDF: 30.1/87

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 198.927 $\pm$ 0.055 χ^2 /NDF: 1105104.1/18

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF: 1780261.9/24

Right Out: 180.521 $\pm$ 0.048 χ^2 /NDF: 1907942.5/20

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF: 1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

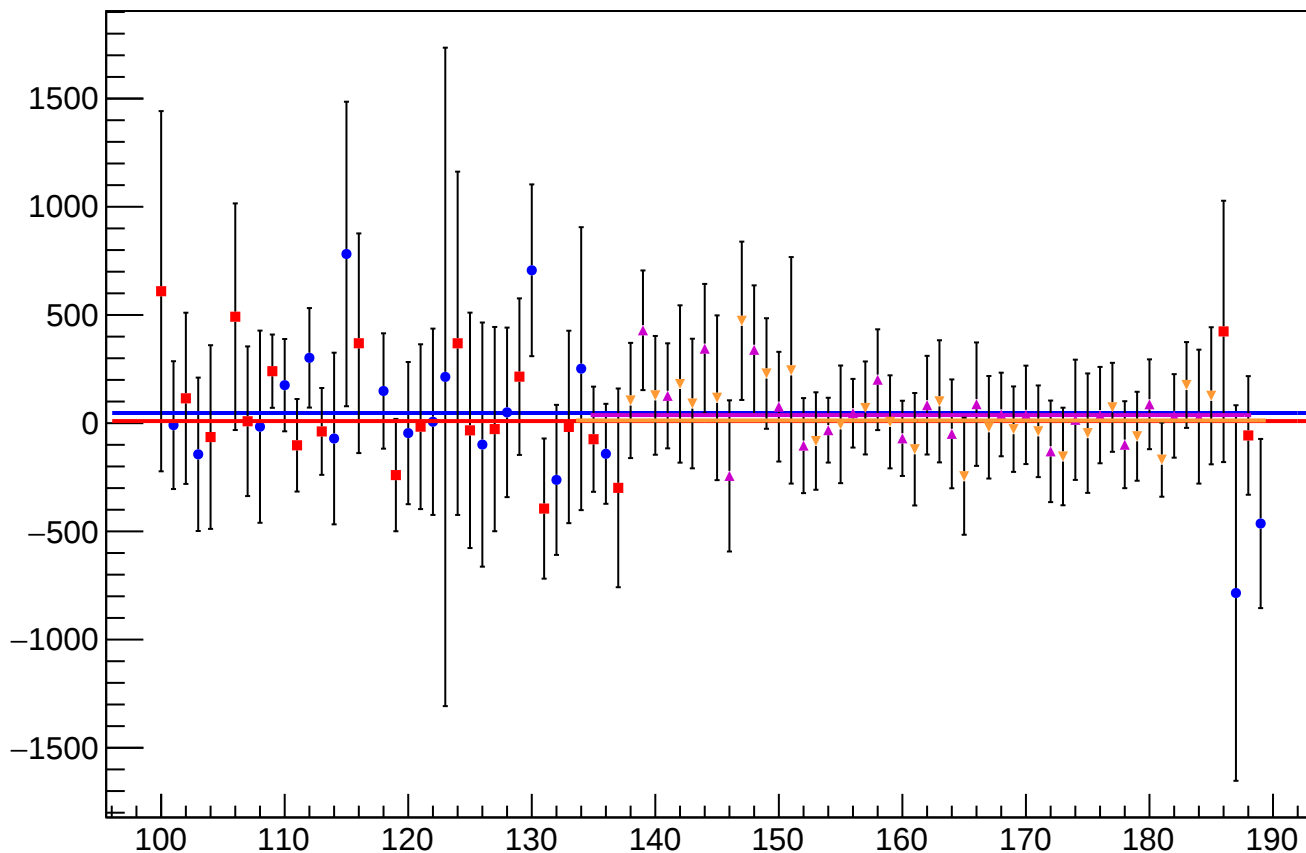
Right: 188.462 $\pm$ 0.036 χ^2 /NDF: 3076904.6/39

In: 183.686 $\pm$ 0.027 χ^2 /NDF: 2816810.4/41

Out: 191.805 $\pm$ 0.028 χ^2 /NDF: 3771517.3/45

All: 187.728 $\pm$ 0.019 χ^2 /NDF: 6631832.7/87

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: 9.723+/-70.352 χ^2/NDF : 8.3/20

Left In: 37.460+/-46.479 χ^2/NDF : 7.6/22

Left: 25.762+/-33.800 χ^2/NDF : 15.3/47

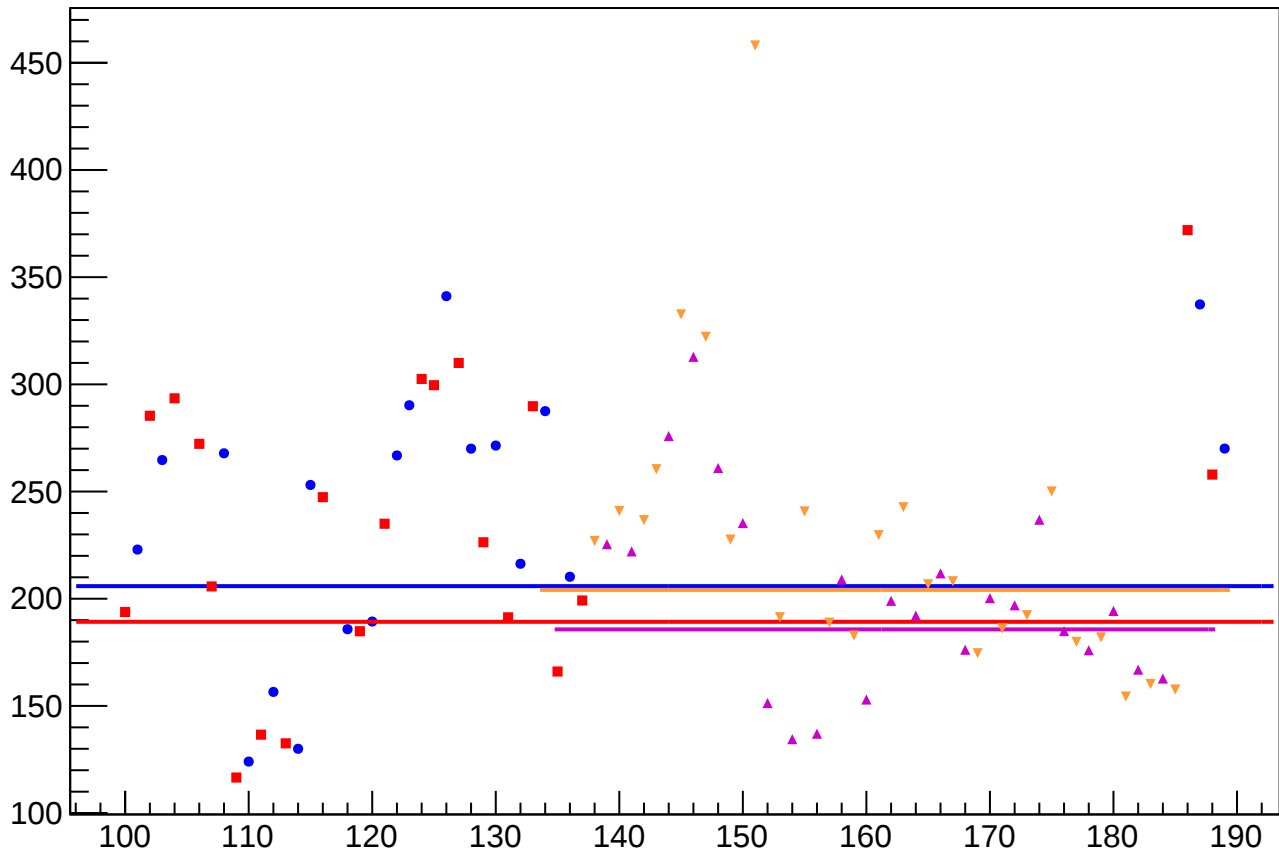
Right: 26.002+/-52.831 χ^2/NDF : 18.8/39

In: 39.881+/-40.189 χ^2/NDF : 18.0/41

Out: 11.676+/-40.342 χ^2/NDF : 15.8/45

All: 25.832+/-28.472 χ^2/NDF : 34.1/87

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: 189.237 ± 0.050 $\chi^2/\text{NDF}: 1703667.0/20$

Left In: 185.694 ± 0.033 $\chi^2/\text{NDF}: 1447767.0/22$

Left: 194.381 ± 0.024 $\chi^2/\text{NDF}: 3268347.9/47$

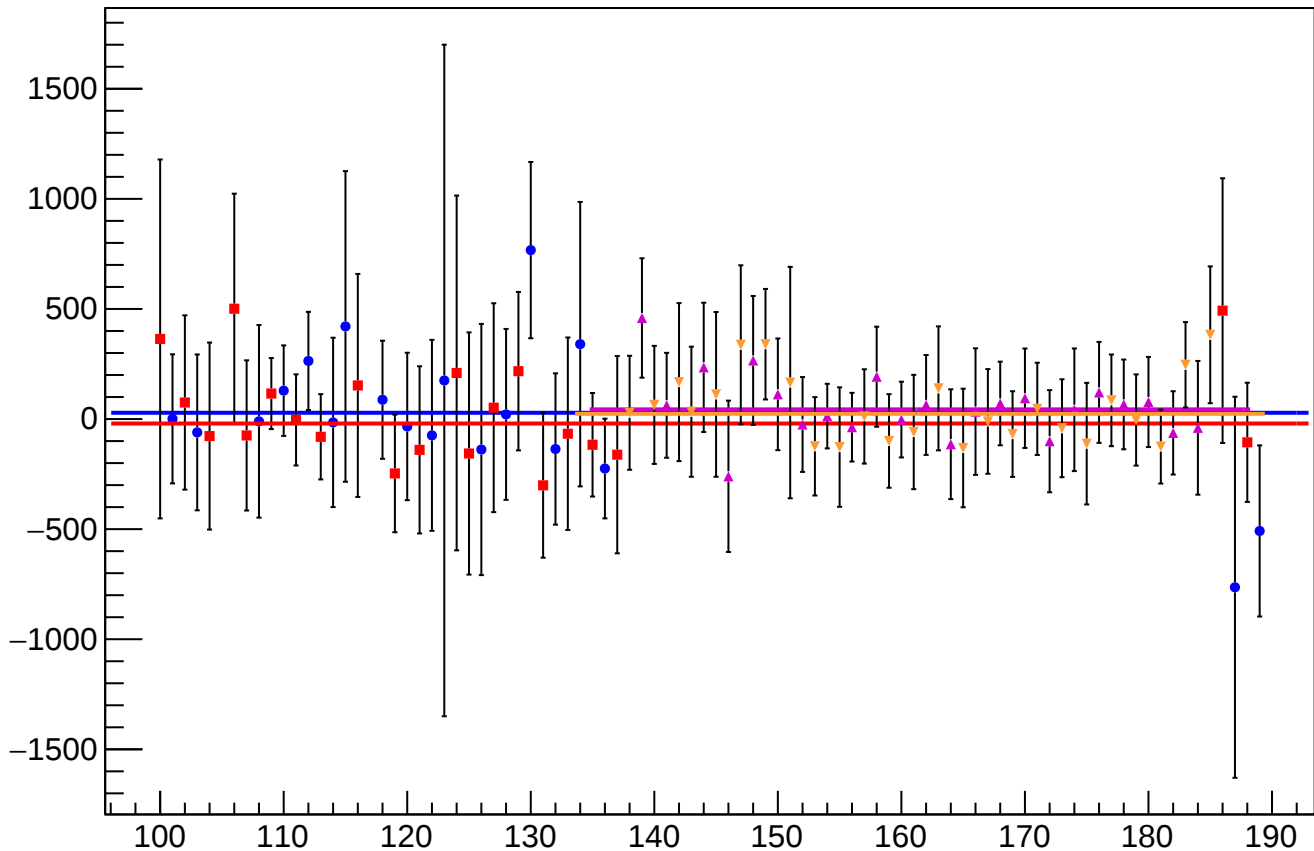
Right: 196.494 ± 0.037 $\chi^2/\text{NDF}: 2741398.2/39$

In: 190.787 ± 0.028 $\chi^2/\text{NDF}: 2531885.6/41$

Out: 199.234 ± 0.029 $\chi^2/\text{NDF}: 3436126.1/45$

All: 194.995 ± 0.020 $\chi^2/\text{NDF}: 6012017.1/87$

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: -20.257 $\pm$ 69.013 χ^2 /NDF: 5.5/20

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

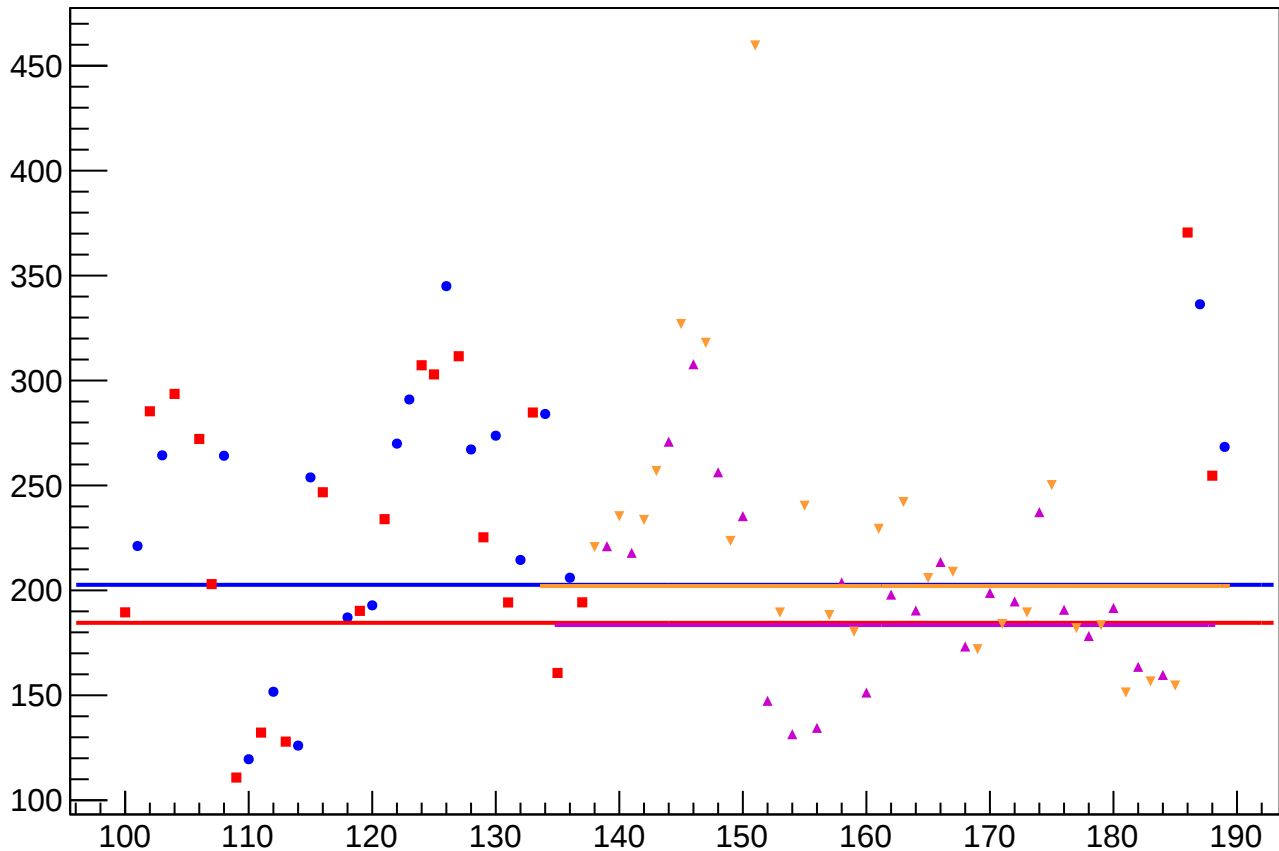
Right: 0.865 $\pm$ 51.974 χ^2 /NDF: 15.6/39

In: 40.072 $\pm$ 39.739 χ^2 /NDF:16.4/41

Out: 9.150 $\pm$ 39.835 χ^2 /NDF:14.2/45

All: 24.648 $\pm$ 28.134 χ^2 /NDF: 31.0/87

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 202.645 ± 0.056 χ^2/NDF : 1074955.2/18

Left Out: 202.081 ± 0.034 χ^2/NDF : 1692787.9/24

Right Out: 184.536 ± 0.049 χ^2/NDF : 1867426.0/20

Left In: 183.498 ± 0.033 χ^2/NDF : 1483383.4/22

Left: 192.240 ± 0.024 χ^2/NDF : 3329846.6/47

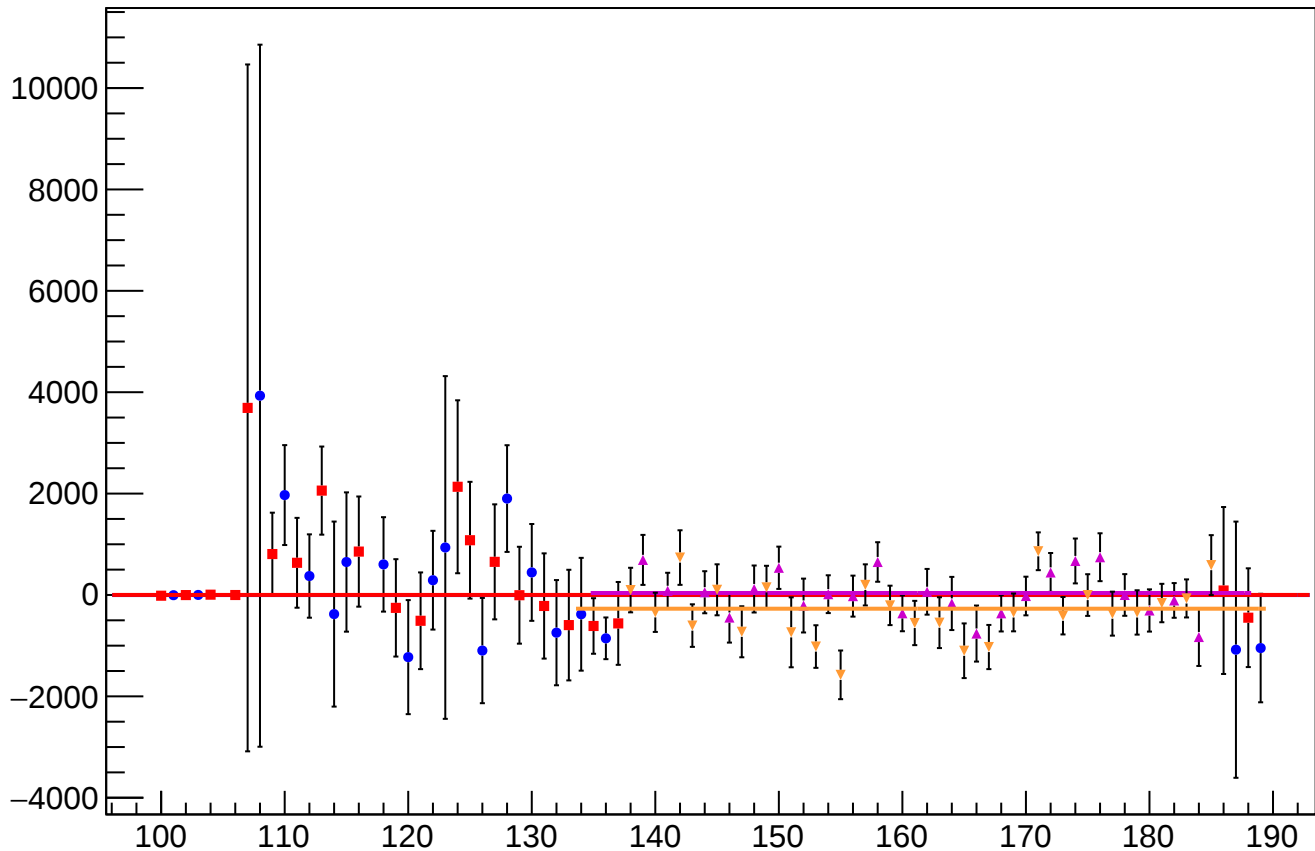
Right: 192.374 ± 0.037 χ^2/NDF : 3001987.8/39

In: 188.343 ± 0.028 χ^2/NDF : 2646094.5/41

Out: 196.235 ± 0.028 χ^2/NDF : 3646407.3/45

All: 192.280 ± 0.020 χ^2/NDF : 6331843.7/87

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: 0.724 ± 2.111 χ^2/NDF : 19.3/20

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

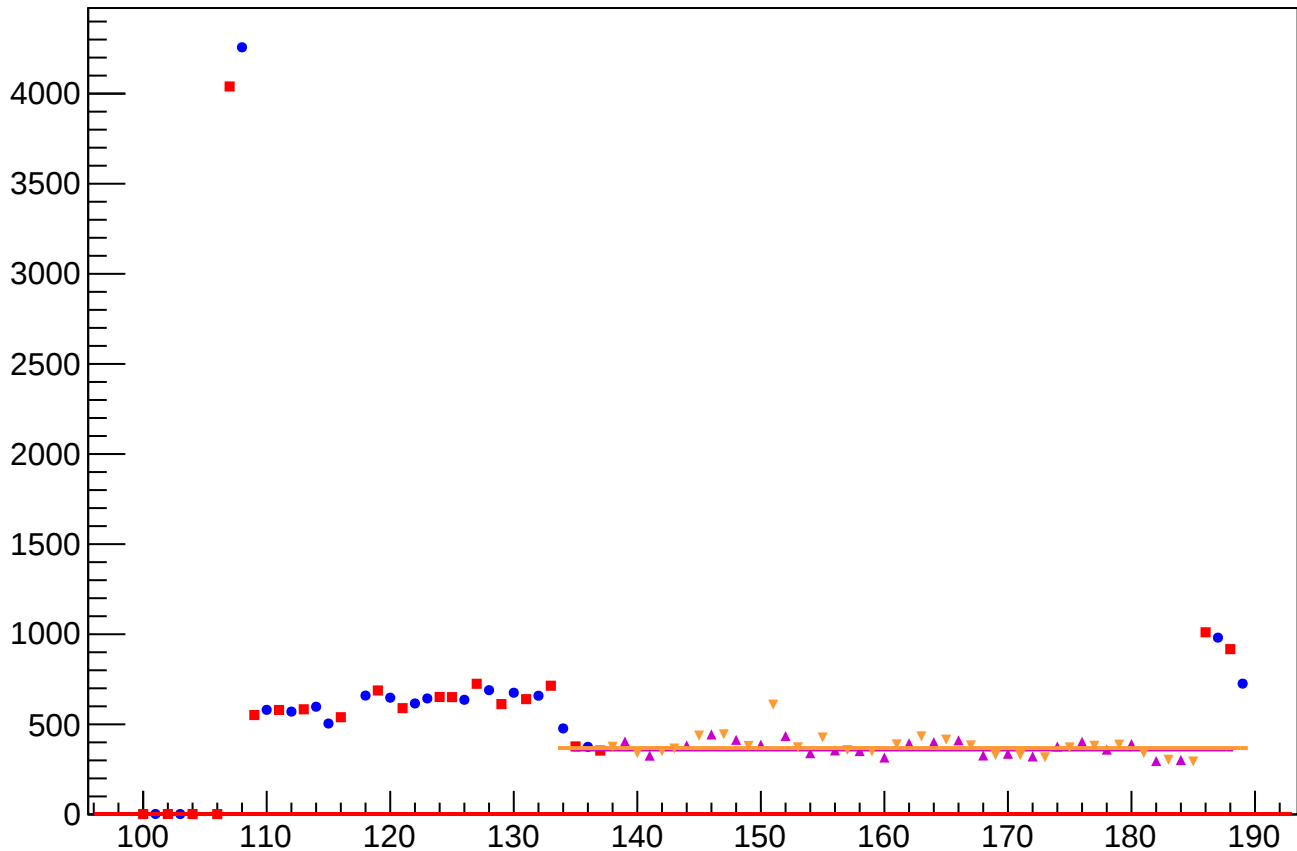
Right: -0.333 ± 1.540 χ^2/NDF : 38.4/39

In: -1.508 ± 2.251 χ^2/NDF : 39.0/41

Out: 0.564 ± 2.111 χ^2/NDF : 67.2/45

All: -0.406 ± 1.540 χ^2/NDF : 106.7/87

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: 2.443+/-0.001 χ^2/NDF : 13614853.0/20

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

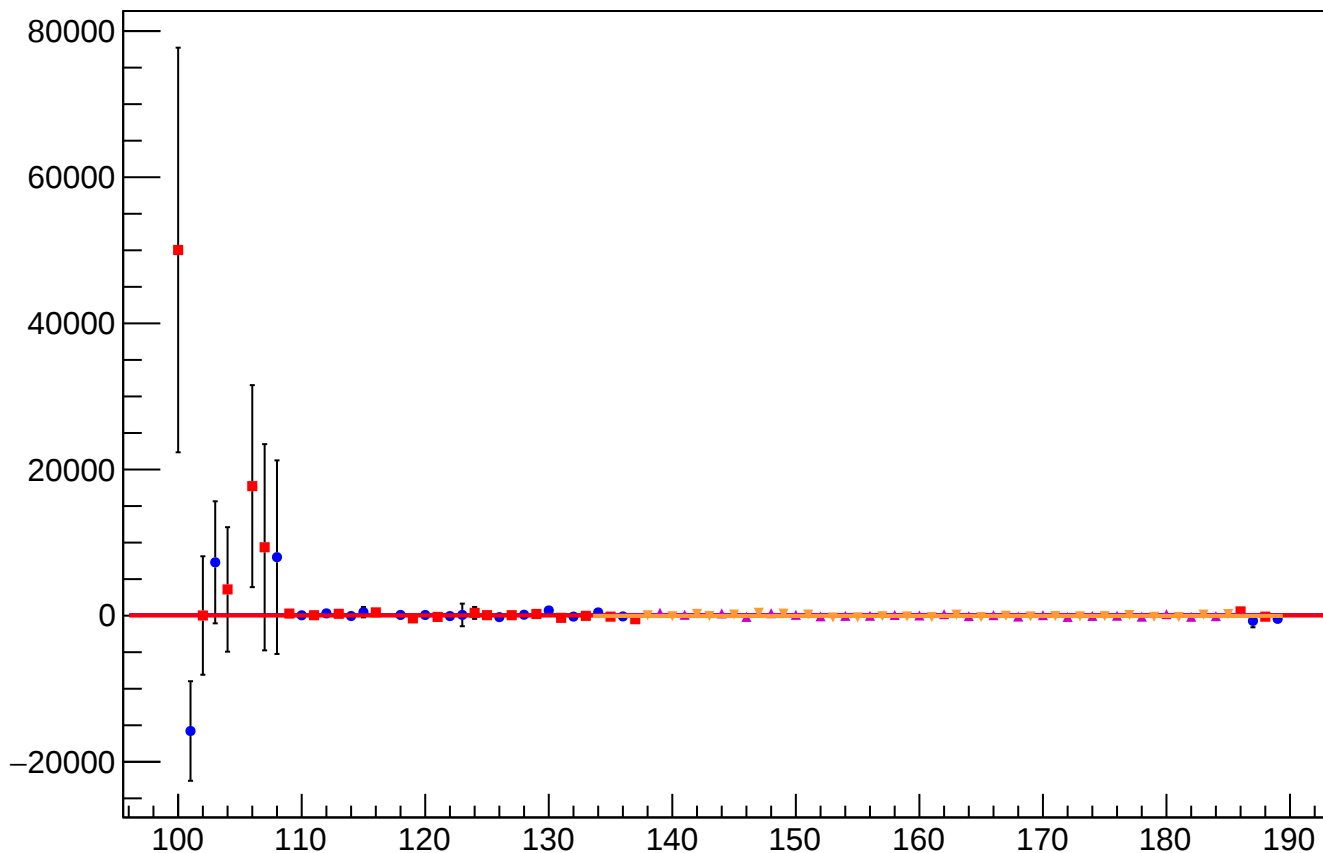
Right: 2.451+/-0.001 χ^2/NDF : 25637366.6/39

In: 2.696+/-0.002 χ^2/NDF : 45682932.2/41

Out: 2.658+/-0.001 χ^2/NDF : 49630226.7/45

All: 2.676+/-0.001 χ^2/NDF : 95313458.0/87

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 65.498+/-88.363 χ^2/NDF : 14.6/18

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: 32.676+/-80.131 χ^2/NDF : 15.3/20

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

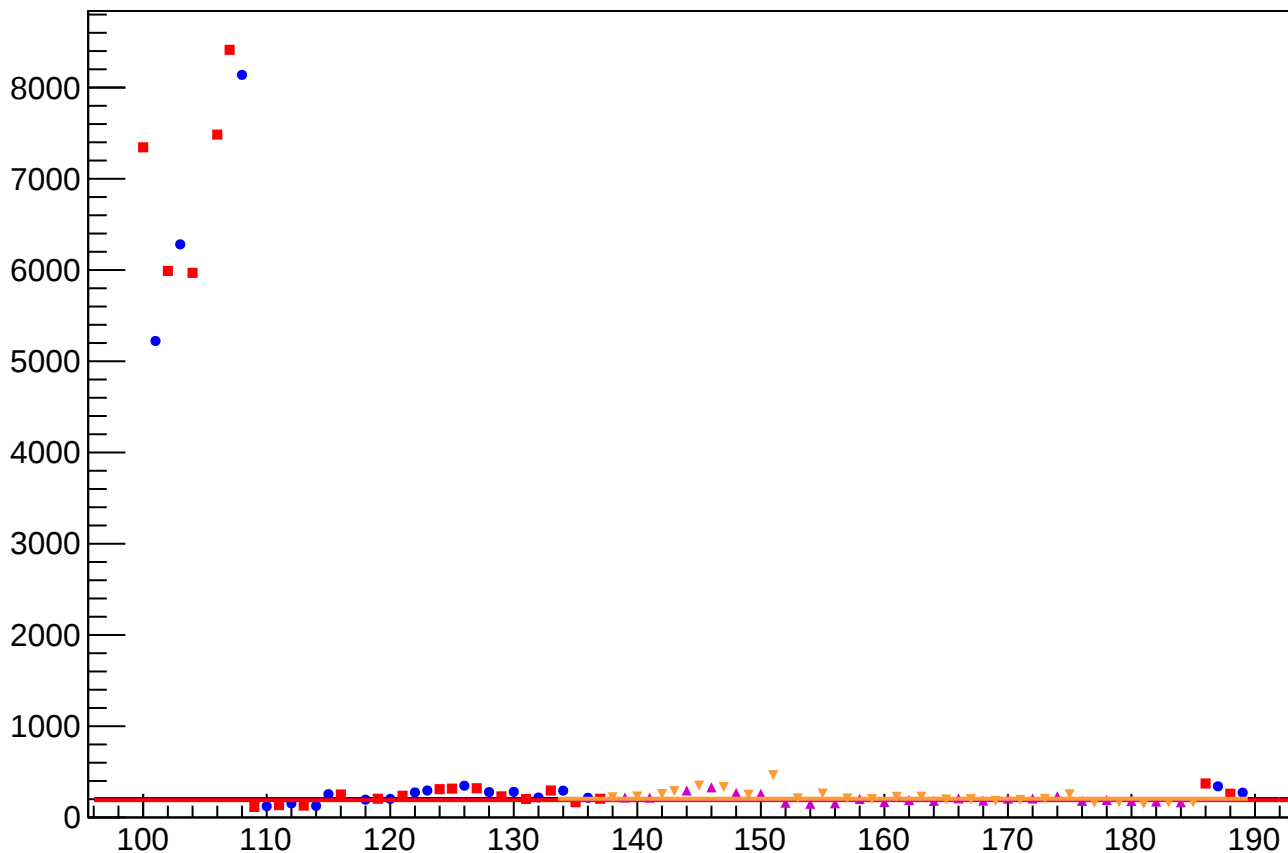
Right: 47.487+/-59.359 χ^2/NDF : 29.9/39

In: 36.747+/-42.292 χ^2/NDF : 23.9/41

Out: -18.415+/-42.191 χ^2/NDF : 25.1/45

All: 9.100+/-29.869 χ^2/NDF : 49.9/87

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: 189.894 ± 0.057 χ^2/NDF : 4656597.3/20

Left In: 193.405 ± 0.034 χ^2/NDF : 1172169.3/22

Left: 199.042 ± 0.024 χ^2/NDF : 3184695.4/47

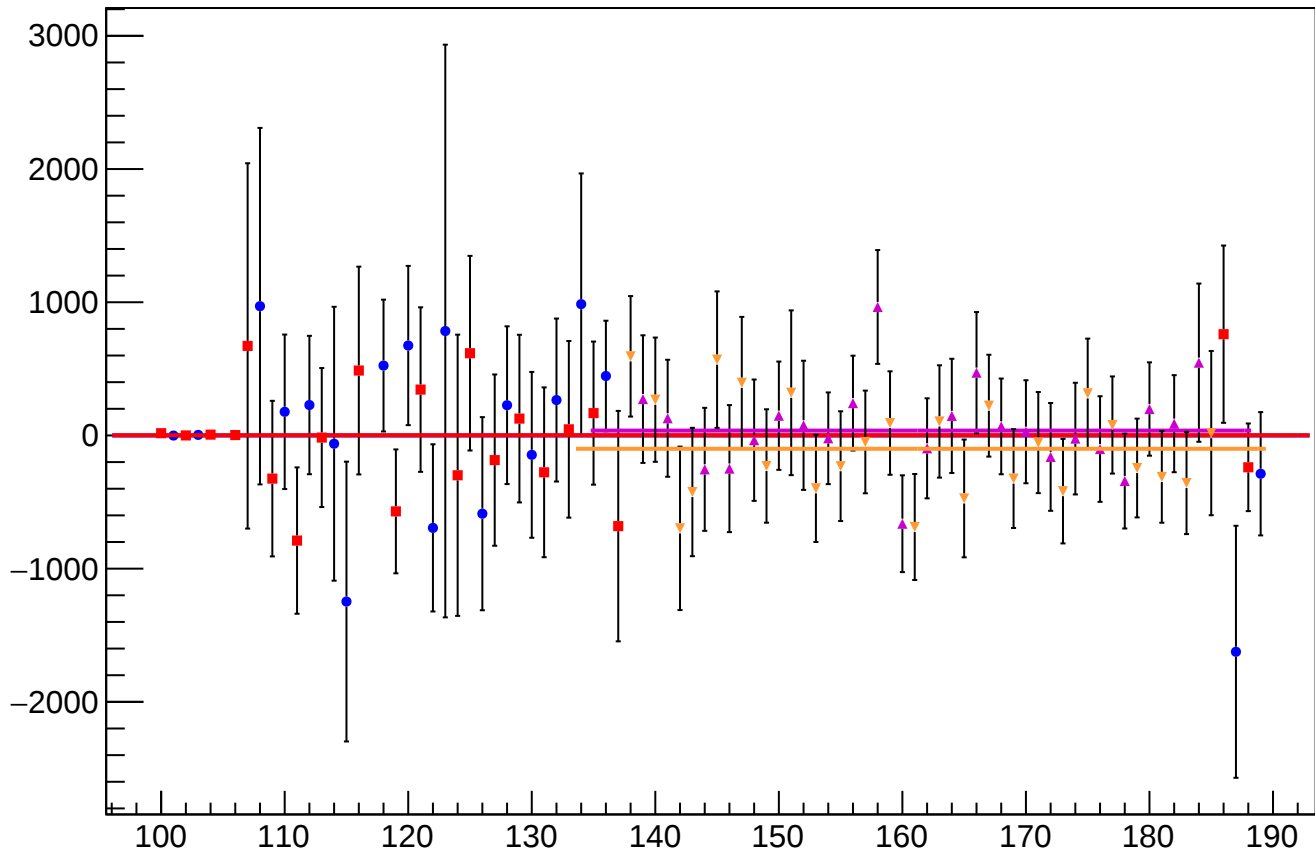
Right: 195.597 ± 0.042 χ^2/NDF : 8494383.6/39

In: 195.495 ± 0.030 χ^2/NDF : 5003957.6/41

Out: 200.832 ± 0.030 χ^2/NDF : 6664194.9/45

All: 198.170 ± 0.021 χ^2/NDF : 11684111.8/87

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.149 ± 1.737 χ^2/NDF : 13.4/18

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.321 ± 1.623 χ^2/NDF : 11.2/20

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

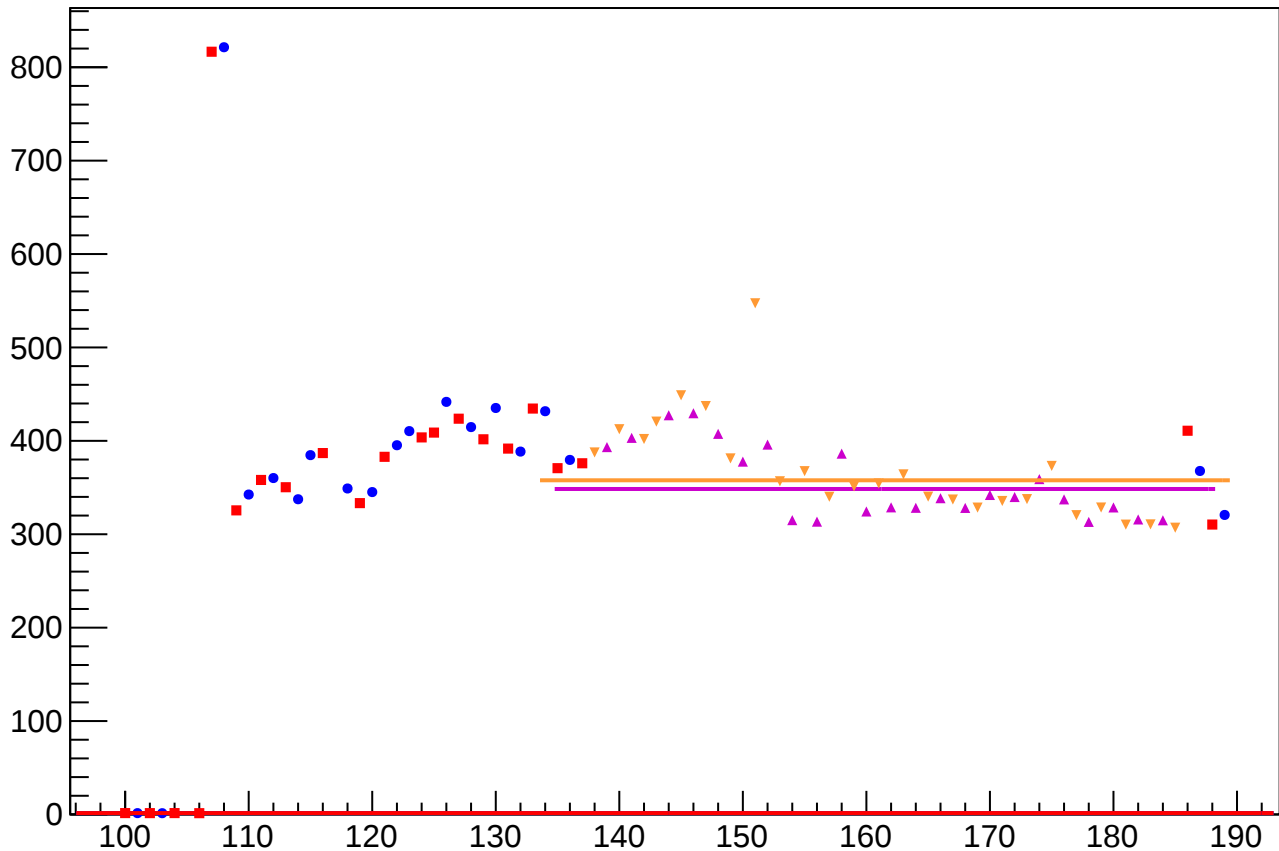
Right: 0.636 ± 1.186 χ^2/NDF : 25.0/39

In: -0.134 ± 1.736 χ^2/NDF : 27.1/41

Out: 1.284 ± 1.622 χ^2/NDF : 28.4/45

All: 0.623 ± 1.185 χ^2/NDF : 55.8/87

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: 1.461 $\pm$ 0.001 χ^2/NDF : 13359418.7/20

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

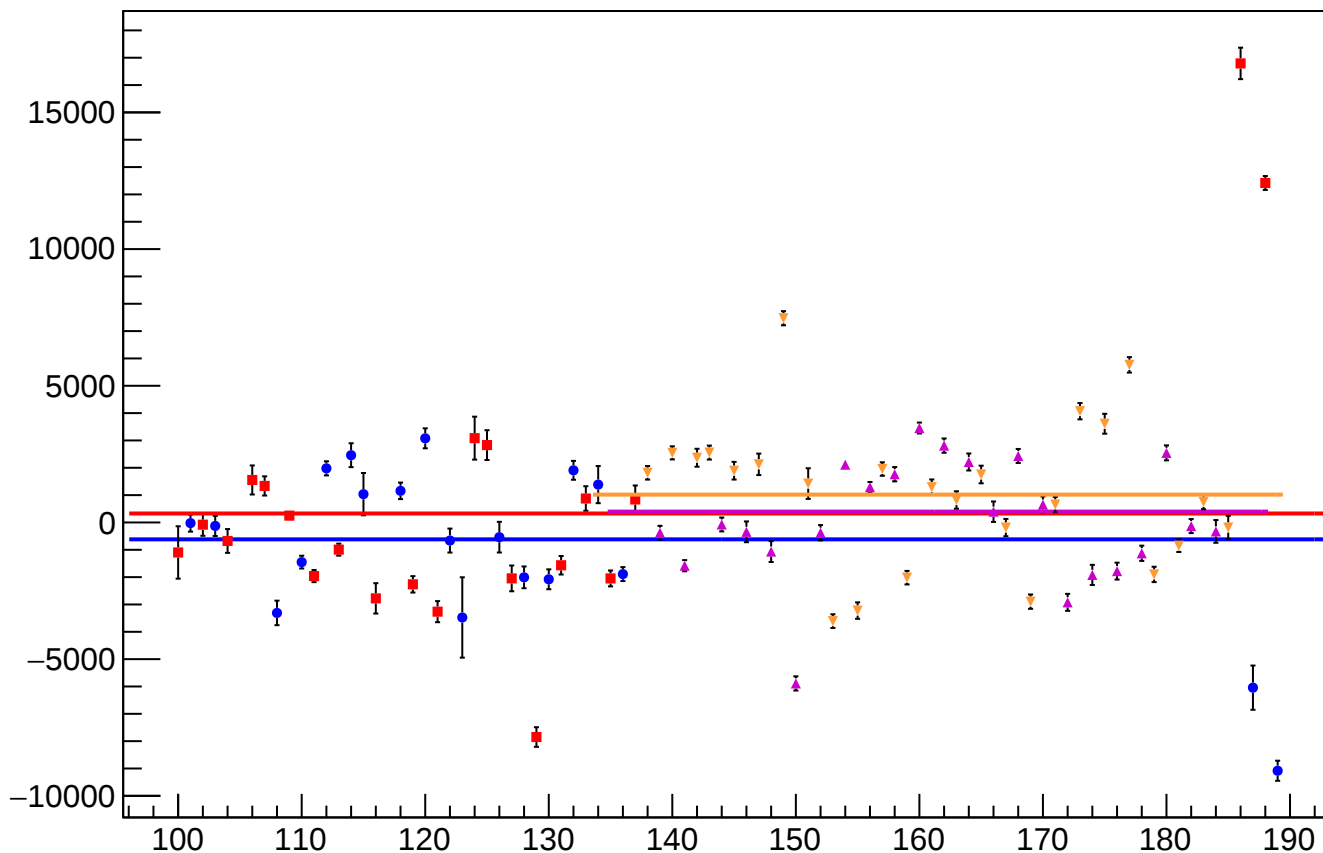
Right: 1.460 $\pm$ 0.001 χ^2/NDF : 25525385.3/39

In: 1.604 $\pm$ 0.001 χ^2/NDF : 46100716.2/41

Out: 1.593 $\pm$ 0.001 χ^2/NDF : 49716751.0/45

All: 1.598 $\pm$ 0.001 χ^2/NDF : 95817510.6/87

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: 328.265 ± 74.317 $\chi^2/\text{NDF}: 4118.4/20$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 695.002 ± 39.747 $\chi^2/\text{NDF}: 3952.3/47$

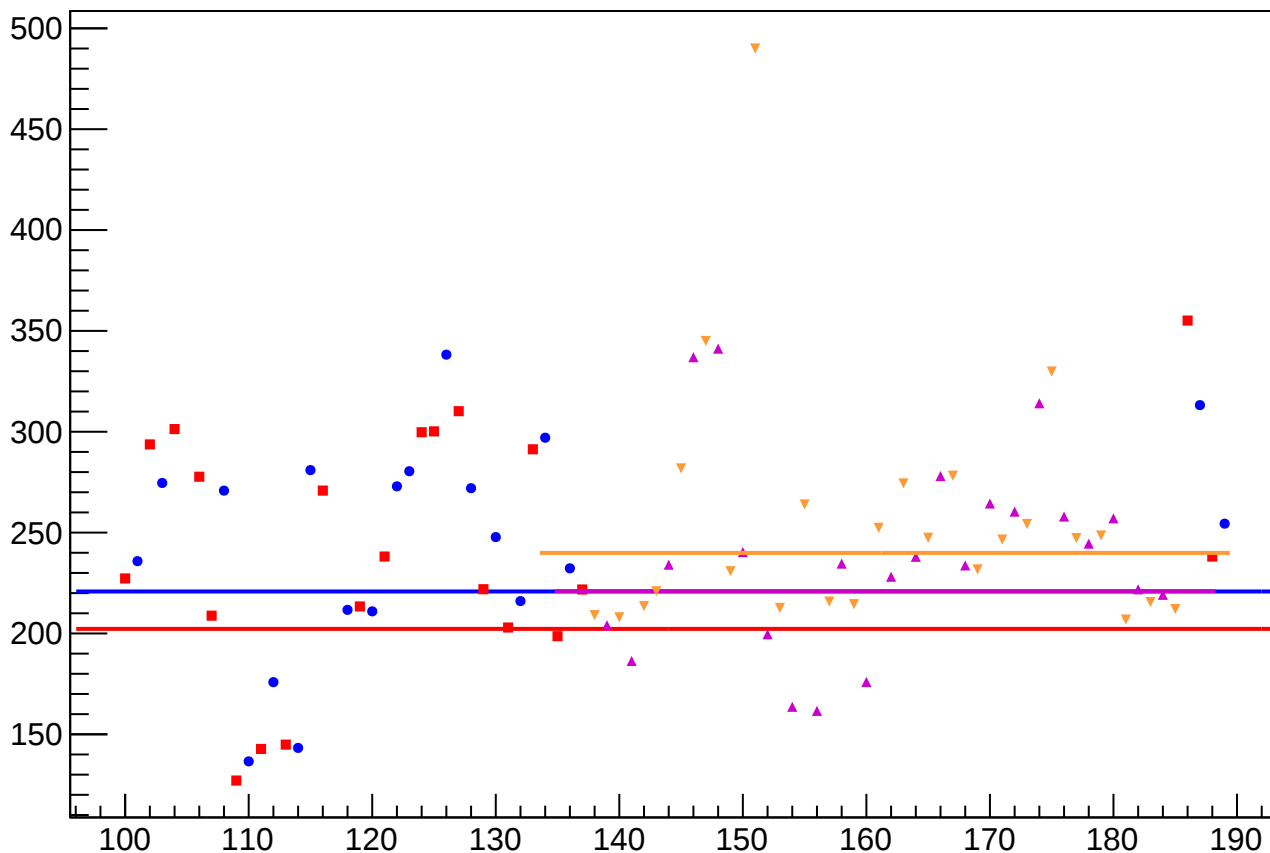
Right: -82.059 ± 55.918 $\chi^2/\text{NDF}: 5228.5/39$

In: 96.108 ± 46.213 $\chi^2/\text{NDF}: 2721.3/41$

Out: 760.872 ± 45.429 $\chi^2/\text{NDF}: 6482.6/45$

All: 434.178 ± 32.397 $\chi^2/\text{NDF}: 9309.1/87$

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: 202.272 ± 0.053 $\chi^2/\text{NDF}: 1382755.3/20$

Left In: 220.972 ± 0.039 $\chi^2/\text{NDF}: 1327680.6/22$

Left: 230.067 ± 0.028 $\chi^2/\text{NDF}: 2442154.9/47$

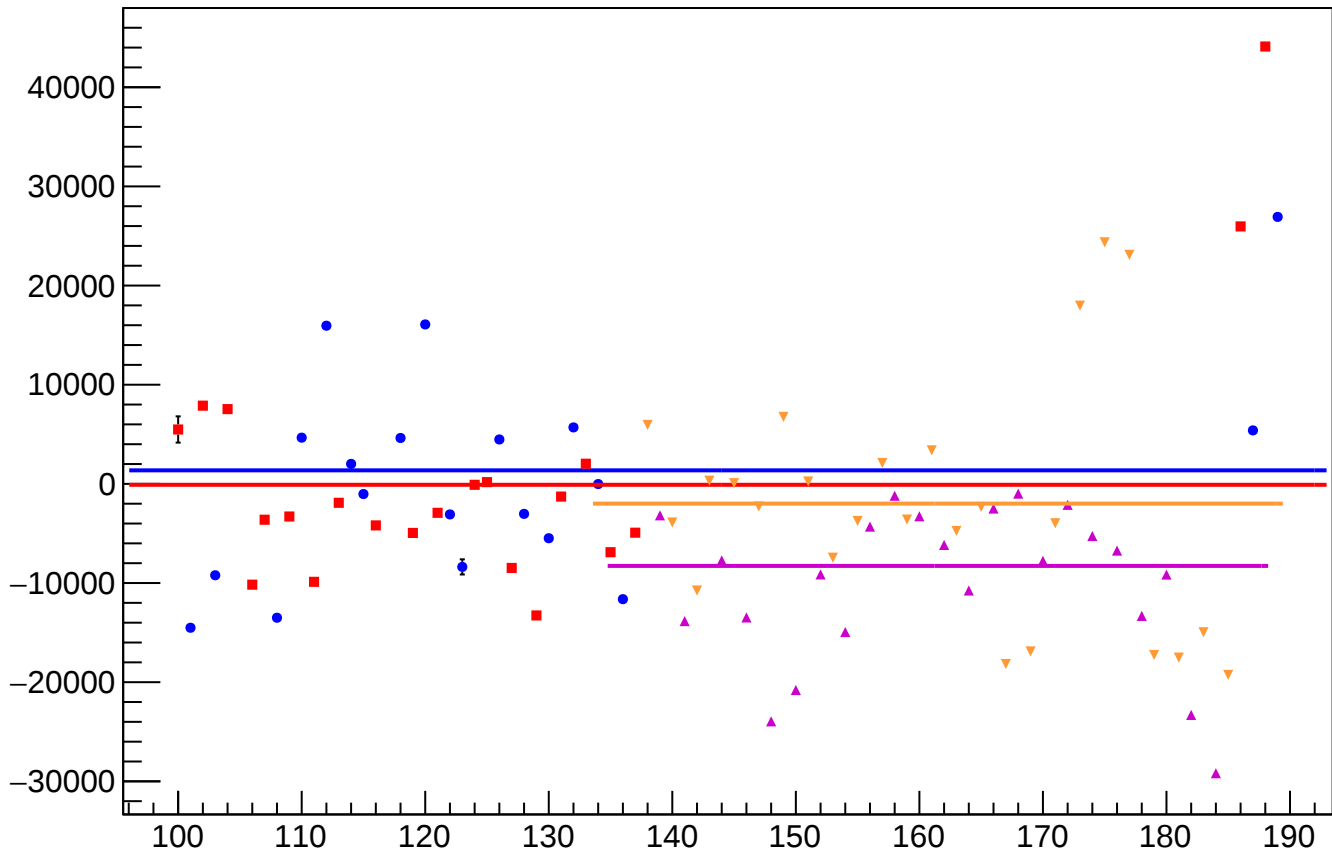
Right: 210.317 ± 0.040 $\chi^2/\text{NDF}: 2142951.4/39$

In: 220.925 ± 0.033 $\chi^2/\text{NDF}: 2033855.5/41$

Out: 225.866 ± 0.032 $\chi^2/\text{NDF}: 2705379.3/45$

All: 223.438 ± 0.023 $\chi^2/\text{NDF}: 4750858.6/87$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 1363.967+/-53.358 χ^2/NDF : 40765.8/18

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: -92.458+/-49.674 χ^2/NDF : 79880.3/20

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

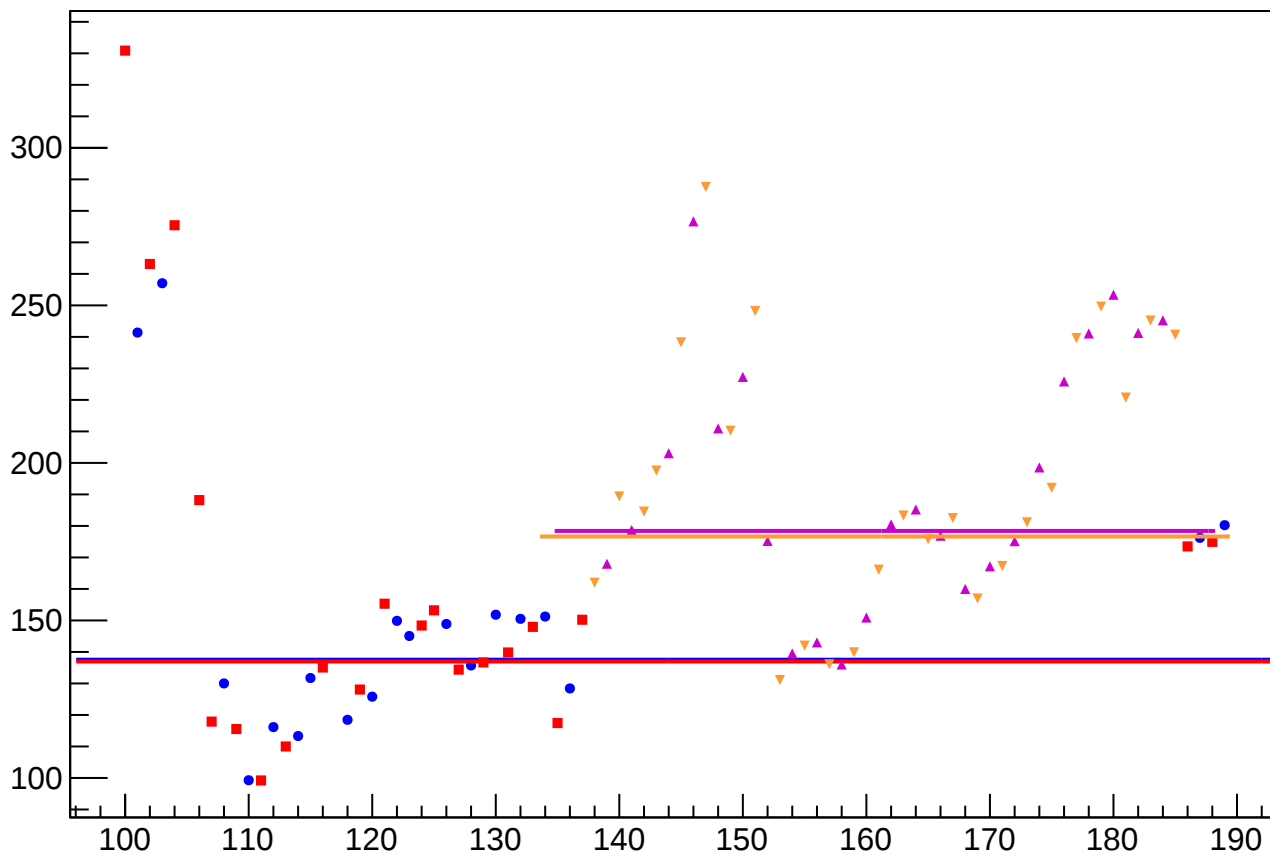
Right: 583.751+/-36.358 χ^2/NDF : 121045.3/39

In: -4340.735+/-34.084 χ^2/NDF : 82946.2/41

Out: -1190.662+/-32.261 χ^2/NDF : 144492.2/45

All: -2679.197+/-23.430 χ^2/NDF : 231943.7/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 137.539 $\pm$ 0.038 χ^2 /NDF: 729283.6/18

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 136.968 $\pm$ 0.035 χ^2 /NDF: 959093.6/20

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

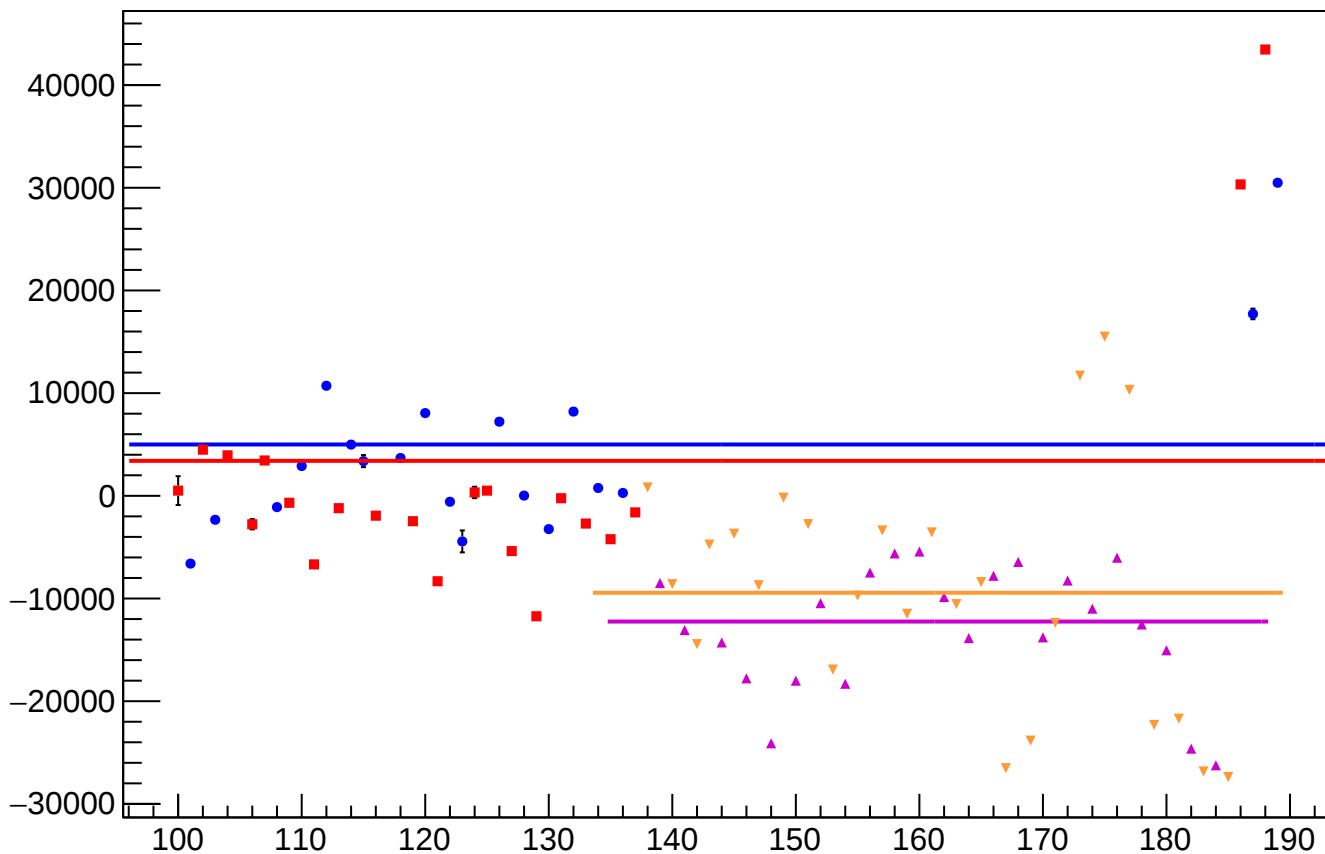
Right: 137.233 $\pm$ 0.026 χ^2 /NDF: 1688499.9/39

In: 161.734 $\pm$ 0.024 χ^2 /NDF:2717753.8/41

Out: 159.907 $\pm$ 0.023 χ^2 /NDF:3247770.3/45

All: 160.770 $\pm$ 0.017 χ^2 /NDF: 5968556.3/87

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: 3406.433+/-61.030 χ^2/NDF : 65720.1/20

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

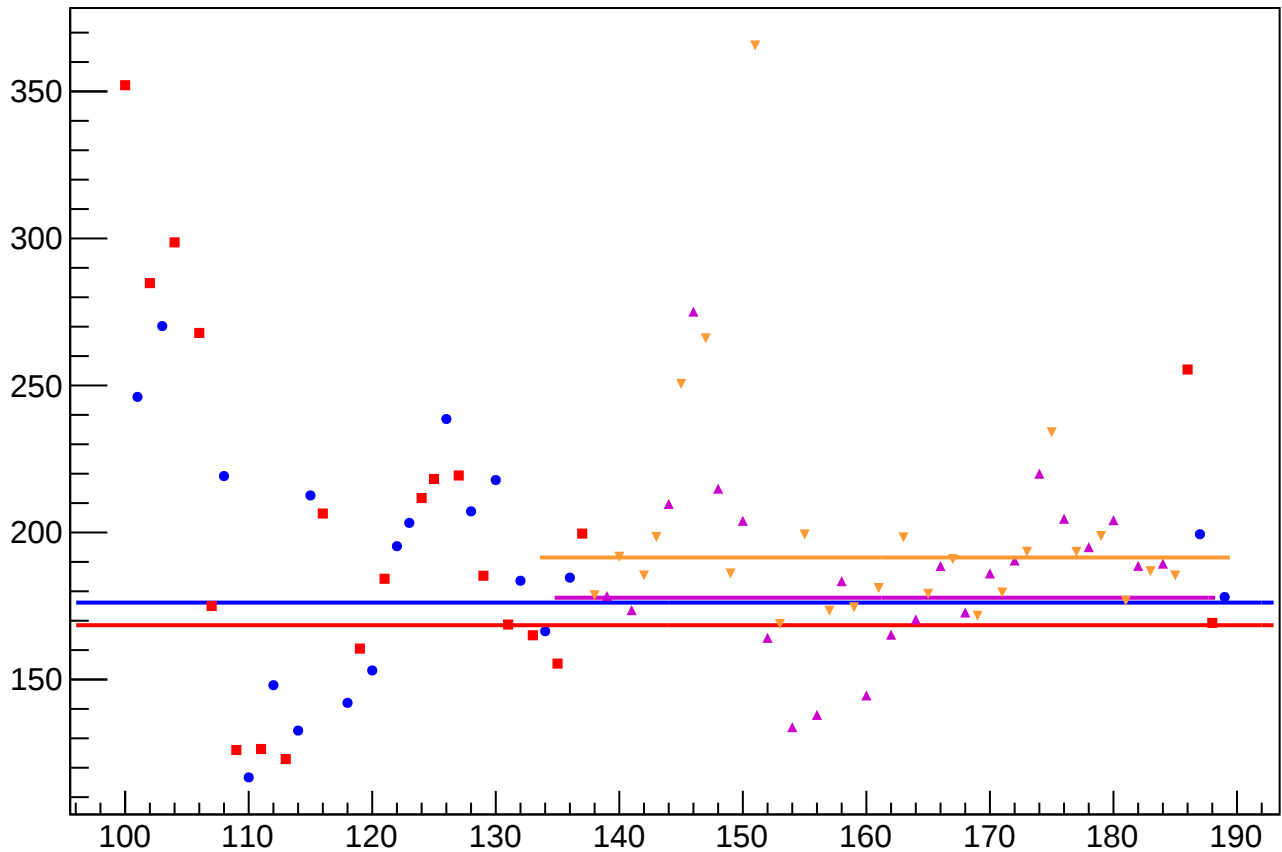
Right: 4120.054+/-45.355 χ^2/NDF : 81427.5/39

In: -7139.638+/-36.873 χ^2/NDF : 77577.9/41

Out: -4844.462+/-36.496 χ^2/NDF : 156392.1/45

All: -5980.240+/-25.939 χ^2/NDF : 235927.2/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 176.161 ± 0.048 $\chi^2/\text{NDF}: 692130.0/18$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 168.471 ± 0.043 $\chi^2/\text{NDF}: 1016078.3/20$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

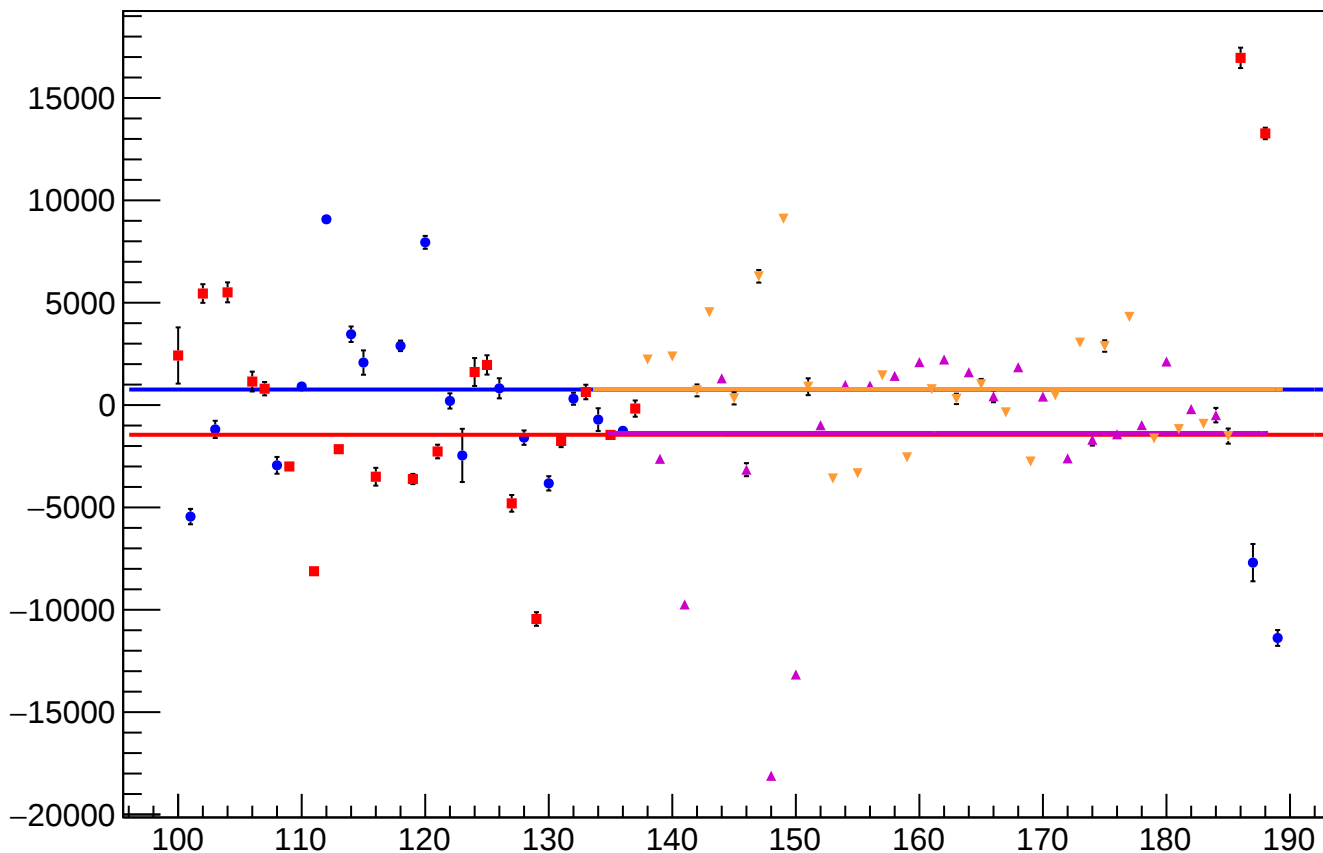
Right: 171.914 ± 0.032 $\chi^2/\text{NDF}: 1722422.1/39$

In: 177.330 ± 0.026 $\chi^2/\text{NDF}: 1555469.9/41$

Out: 183.269 ± 0.026 $\chi^2/\text{NDF}: 1926367.0/45$

All: 180.330 ± 0.018 $\chi^2/\text{NDF}: 3508049.3/87$

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: -1451.389+/-67.310 χ^2/NDF : 6941.5/20

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

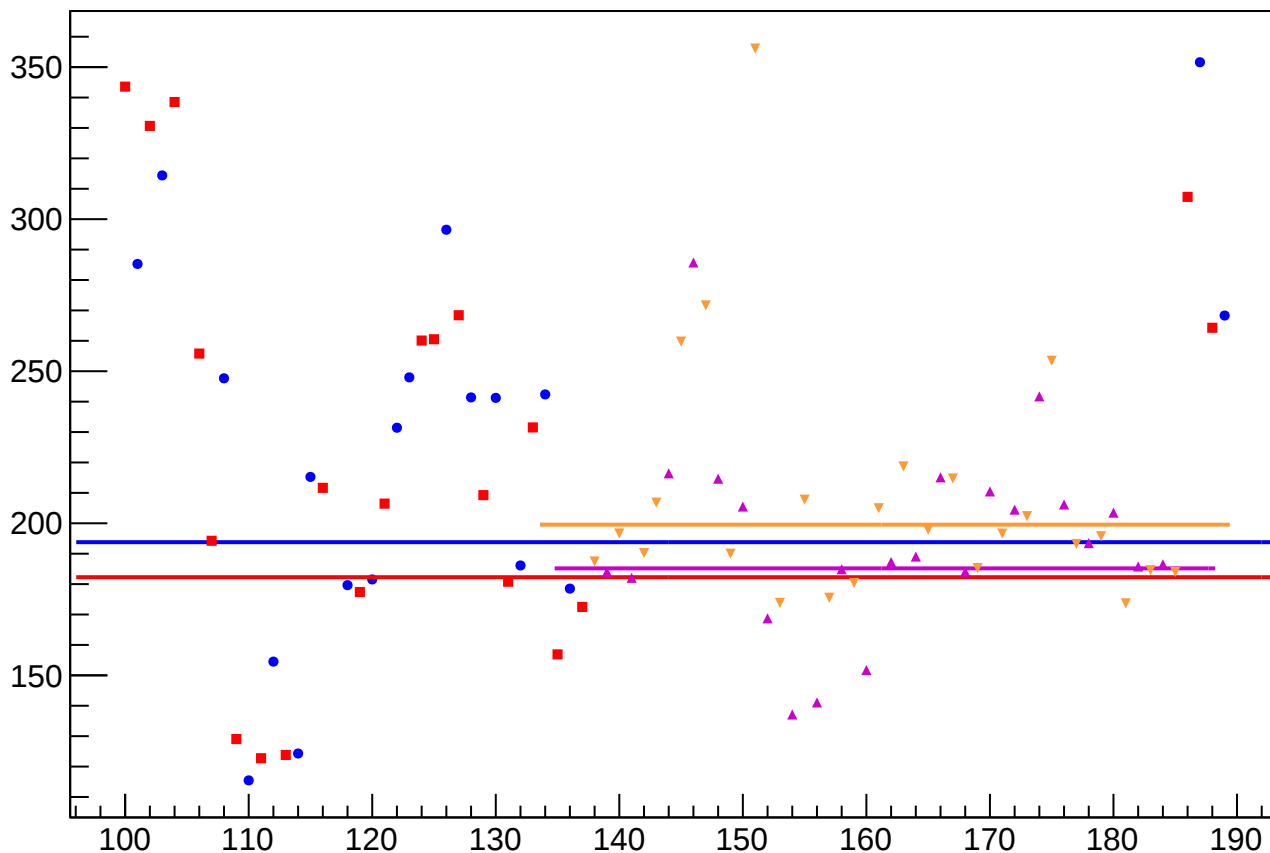
Right: -473.424+/-50.263 χ^2/NDF : 11184.2/39

In: -792.784+/-39.172 χ^2/NDF : 15975.2/41

Out: 39.073+/-38.786 χ^2/NDF : 11936.3/45

All: -372.740+/-27.561 χ^2/NDF : 28139.2/87

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.788 $\pm$ 0.053 χ^2 /NDF: 1116703.6/18

Left Out: 199.547 $\pm$ 0.034 χ^2 /NDF: 729356.3/24

Right Out: 182.270 $\pm$ 0.048 χ^2 /NDF: 1610863.2/20

Left In: 185.171 $\pm$ 0.032 χ^2 /NDF: 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2 /NDF: 1707122.0/47

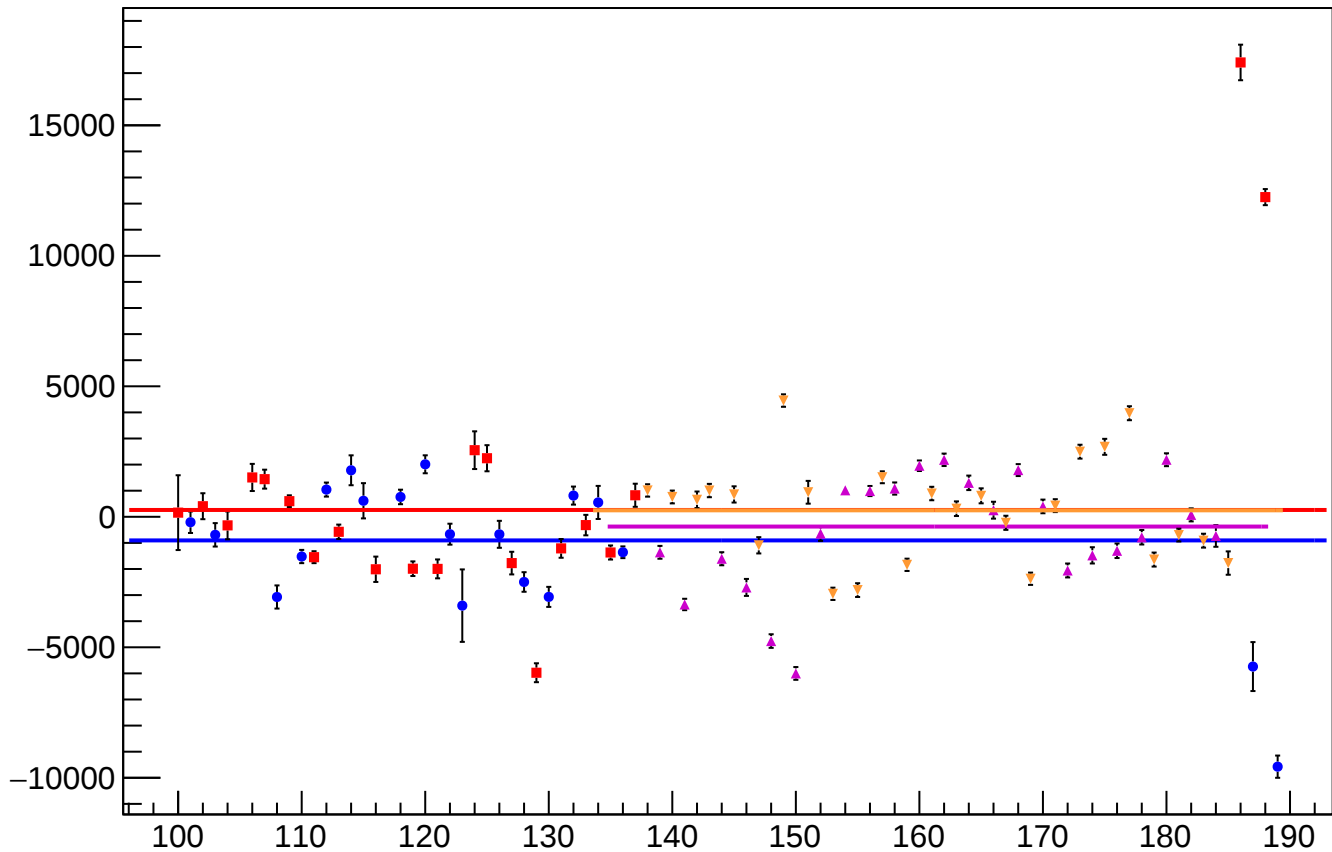
Right: 187.366 $\pm$ 0.036 χ^2 /NDF: 2753472.7/39

In: 187.486 $\pm$ 0.028 χ^2 /NDF: 2018474.8/41

Out: 193.810 $\pm$ 0.027 χ^2 /NDF: 2428228.5/45

All: 190.679 $\pm$ 0.019 χ^2 /NDF: 4473026.4/87

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -904.794 $\pm$ 86.550 χ^2/NDF : 748.2/18

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: 261.608 $\pm$ 78.921 χ^2/NDF : 2762.3/20

Left In: -374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

Left: -72.006 $\pm$ 37.325 χ^2/NDF : 3225.5/47

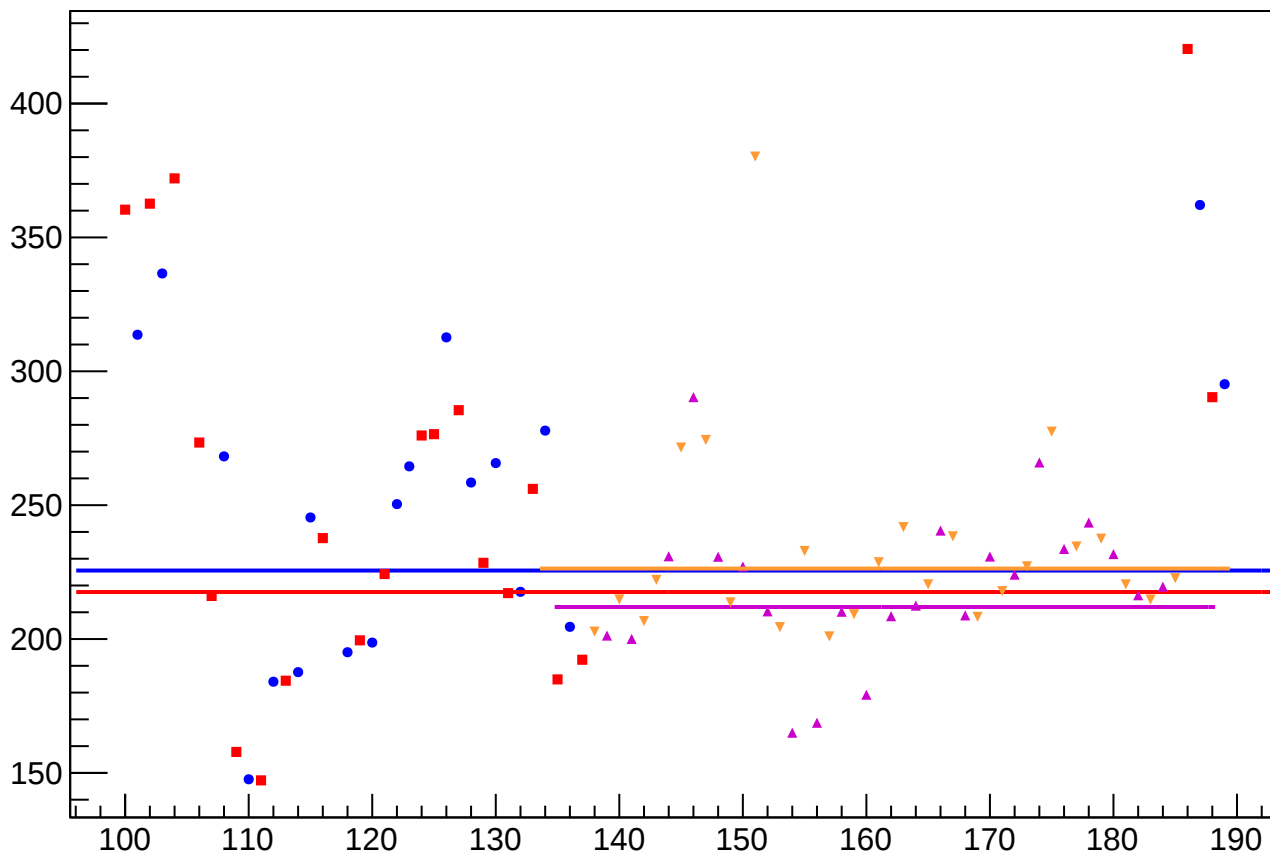
Right: -267.928 $\pm$ 58.317 χ^2/NDF : 3609.7/39

In: -515.066 $\pm$ 44.605 χ^2/NDF :2576.8/41

Out: 252.183 $\pm$ 44.315 χ^2/NDF :4117.5/45

All: -128.942 $\pm$ 31.437 χ^2/NDF : 6843.2/87

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: 217.557 ± 0.056 $\chi^2/\text{NDF}: 1187469.1/20$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

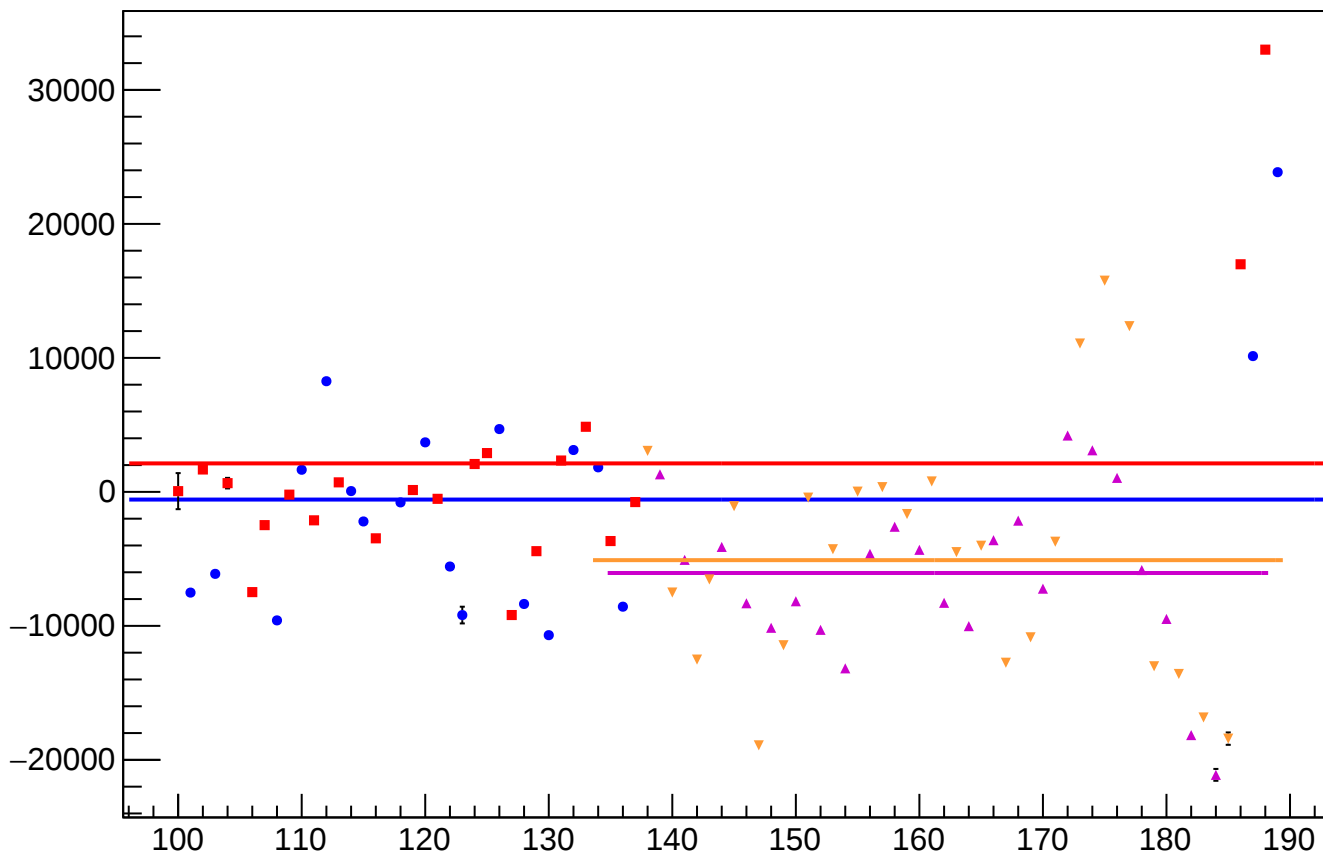
Right: 221.202 ± 0.041 $\chi^2/\text{NDF}: 1942710.0/39$

In: 215.586 ± 0.032 $\chi^2/\text{NDF}: 1366537.0/41$

Out: 223.558 ± 0.031 $\chi^2/\text{NDF}: 1725399.1/45$

All: 219.598 ± 0.022 $\chi^2/\text{NDF}: 3124088.7/87$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -573.110 ± 45.816 $\chi^2/\text{NDF}: 32640.7/18$

Left Out: -5095.305 ± 33.703 $\chi^2/\text{NDF}: 54395.4/24$

Right Out: 2125.844 ± 42.298 $\chi^2/\text{NDF}: 59450.8/20$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5556.386 ± 24.277 $\chi^2/\text{NDF}: 72374.6/47$

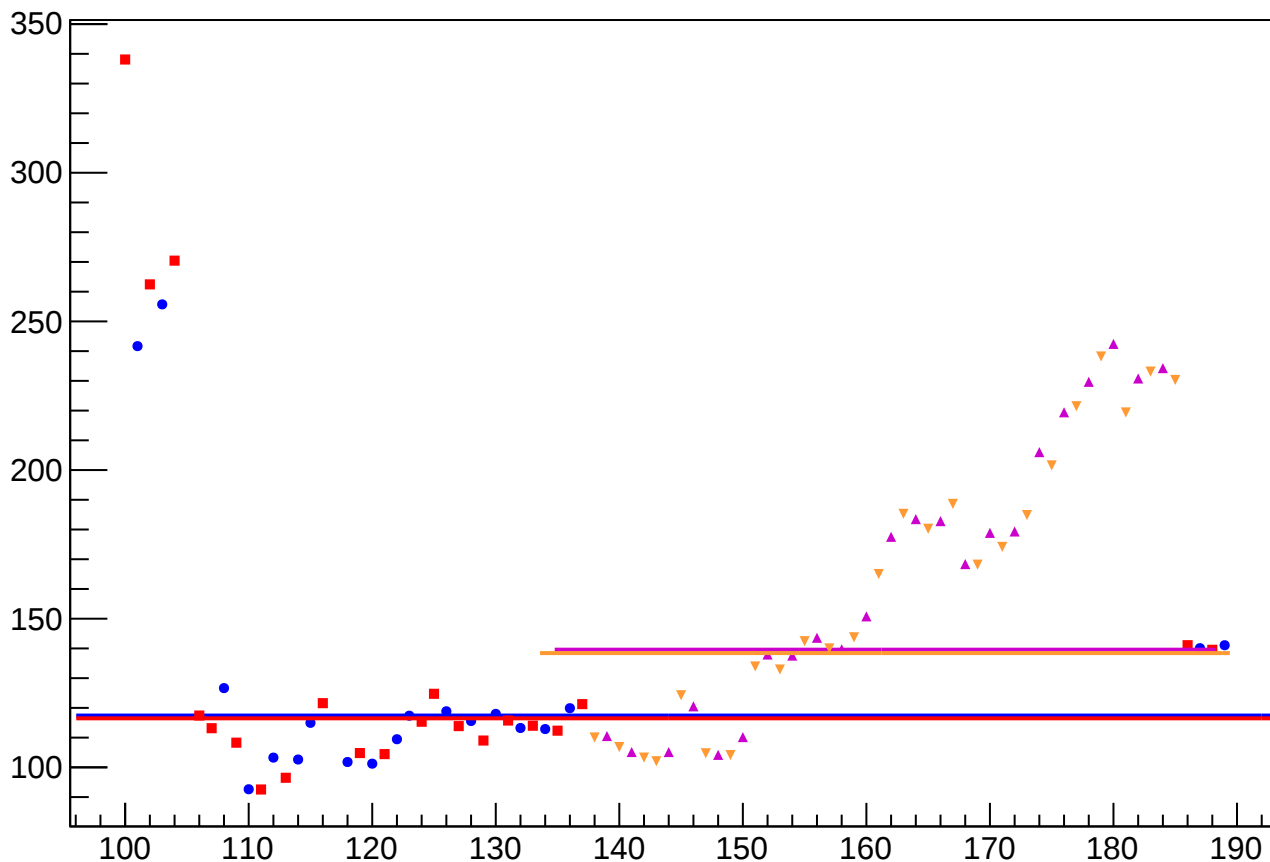
Right: 883.953 ± 31.079 $\chi^2/\text{NDF}: 93964.8/39$

In: -4034.078 ± 27.812 $\chi^2/\text{NDF}: 59266.8/41$

Out: -2291.048 ± 26.359 $\chi^2/\text{NDF}: 131673.0/45$

All: -3115.842 ± 19.132 $\chi^2/\text{NDF}: 193009.0/8$

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: 116.486 $\pm$ 0.030 χ^2 /NDF: 876193.5/20

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

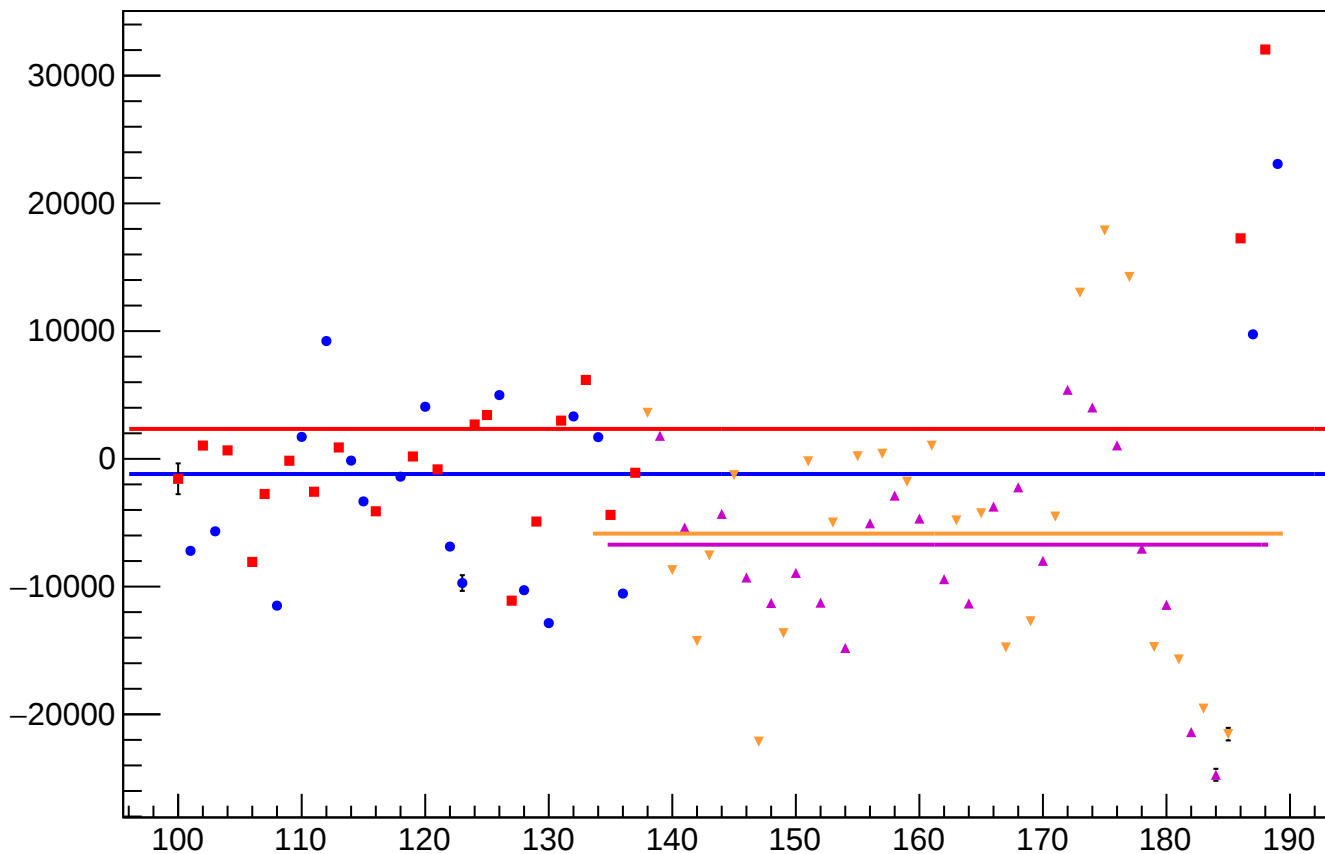
Right: 116.916 $\pm$ 0.022 χ^2 /NDF: 1657208.0/39

In: 131.413 $\pm$ 0.020 χ^2 /NDF: 3489586.5/41

Out: 129.912 $\pm$ 0.019 χ^2 /NDF: 3755054.9/45

All: 130.622 $\pm$ 0.014 χ^2 /NDF: 7247713.3/87

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: 2343.297 $\pm$ 43.249 χ^2 /NDF: 62695.8/20

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

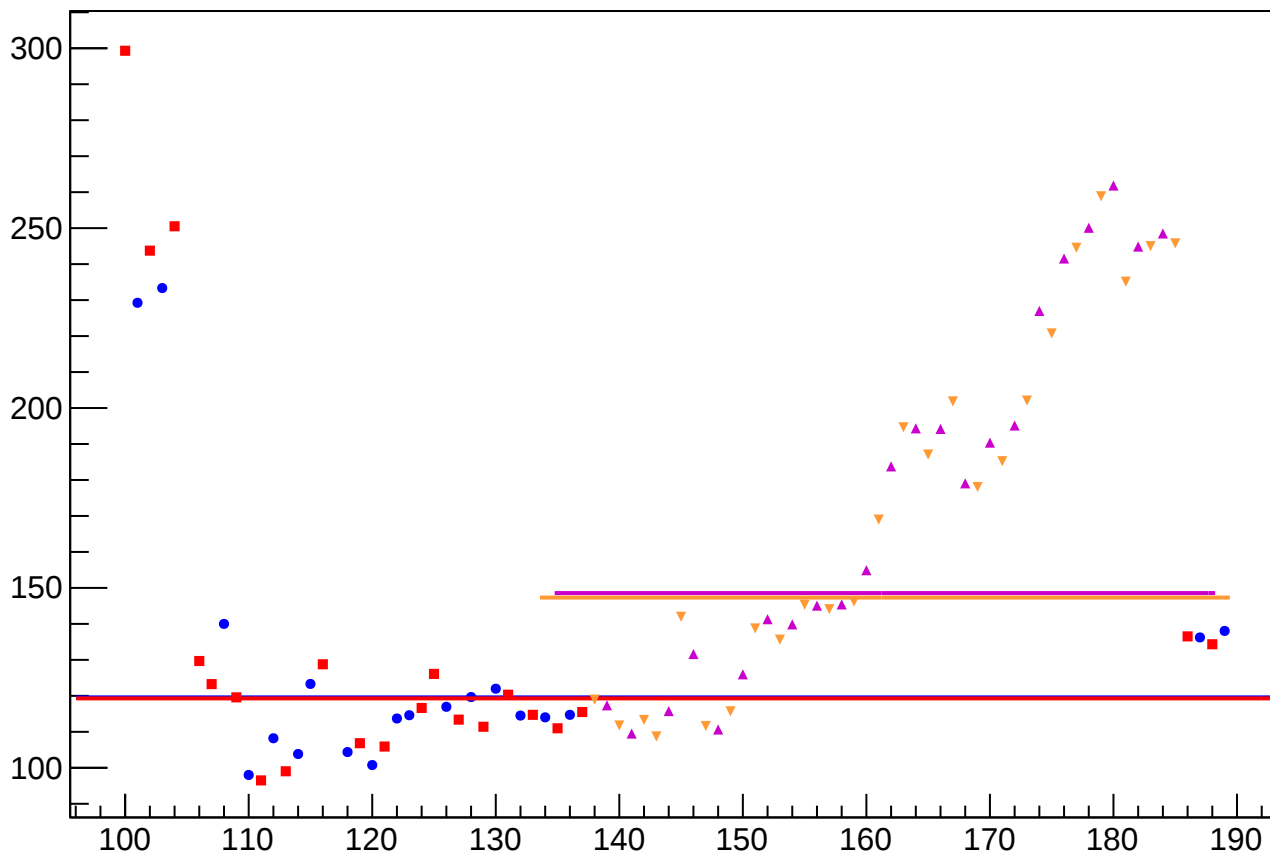
Right: 709.142 $\pm$ 31.700 χ^2 /NDF: 103779.9/39

In: -4560.507 $\pm$ 29.109 χ^2 /NDF: 67522.6/41

Out: -2511.347 $\pm$ 27.614 χ^2 /NDF: 147378.7/45

All: -3481.979 $\pm$ 20.034 χ^2 /NDF: 217509.7/8

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: 119.291+/-0.031 χ^2/NDF : 728878.9/20

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

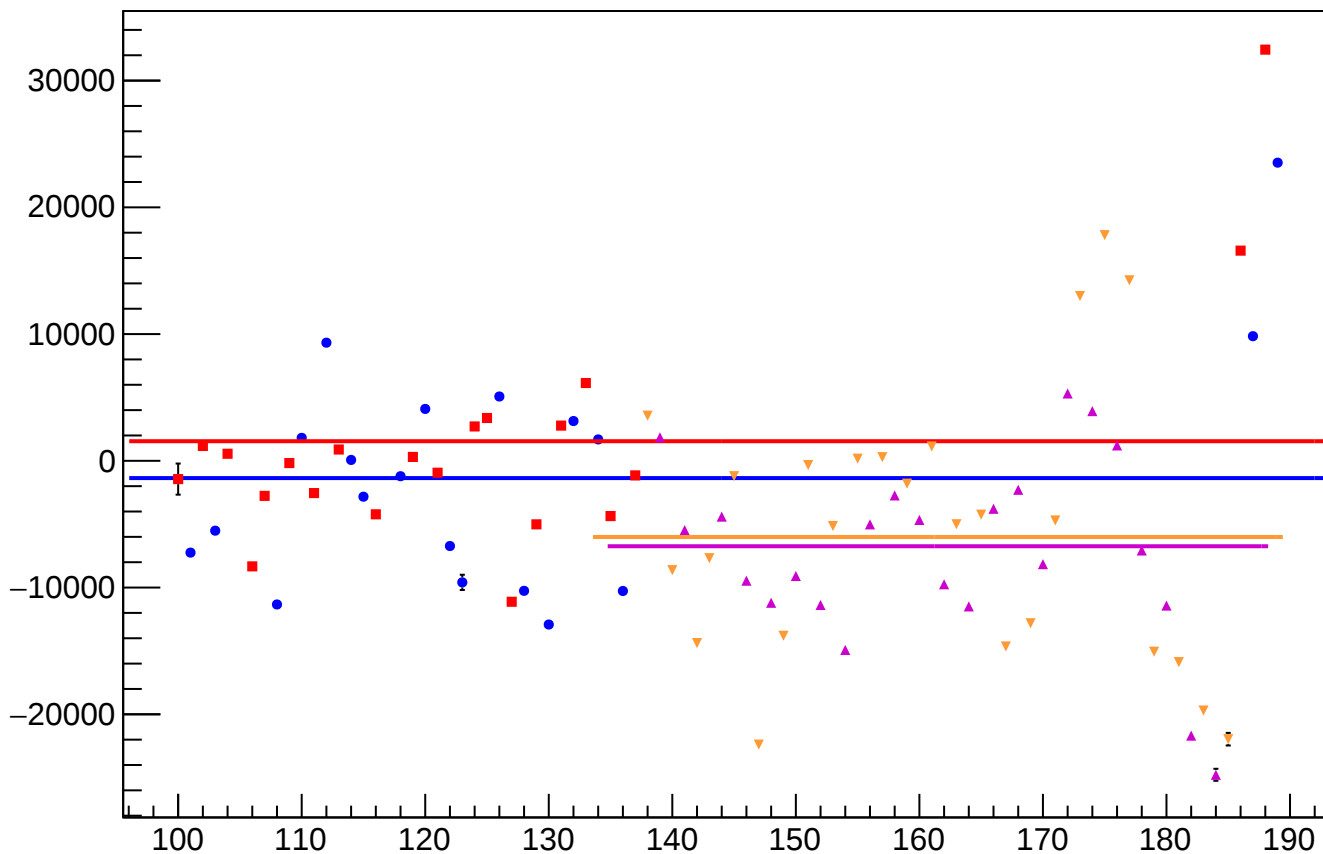
Right: 119.422+/-0.022 χ^2/NDF : 1388338.4/39

In: 137.255+/-0.021 χ^2/NDF : 3524768.9/41

Out: 135.892+/-0.020 χ^2/NDF : 3738034.3/45

All: 136.537+/-0.014 χ^2/NDF : 7265112.4/87

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -1362.049+/-45.053 χ^2/NDF : 37971.3/18

Left Out: -6009.913+/-35.082 χ^2/NDF : 67852.2/24

Right Out: 1547.166+/-42.052 χ^2/NDF : 56695.8/20

Left In: -6740.666+/-36.379 χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253 χ^2/NDF : 90133.1/47

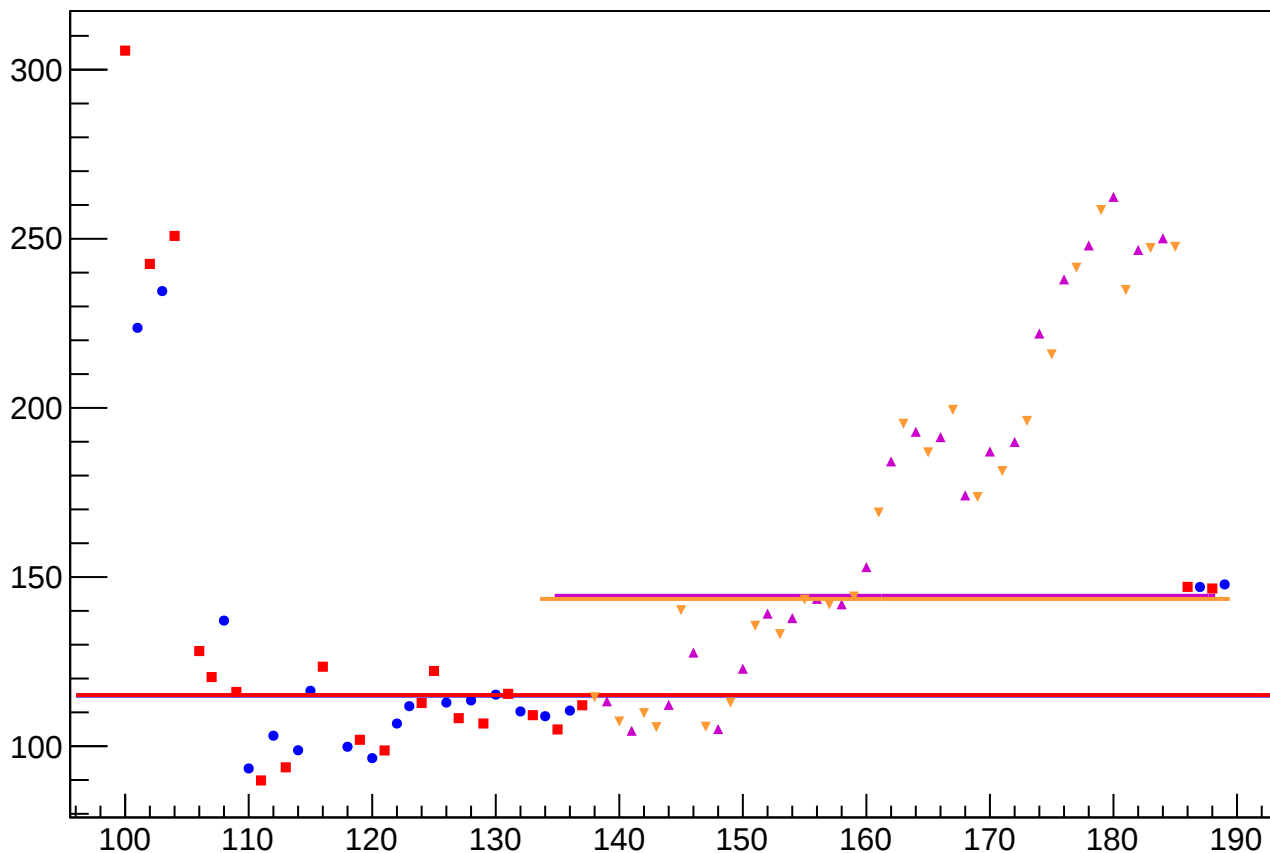
Right: 192.680+/-30.742 χ^2/NDF : 96895.5/39

In: -4617.851+/-28.304 χ^2/NDF : 68670.4/41

Out: -2908.691+/-26.939 χ^2/NDF : 143589.9/45

All: -3721.055+/-19.513 χ^2/NDF : 214173.6/8

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 114.956 $\pm$ 0.032 χ^2 /NDF: 745248.8/18

Left Out: 143.531 $\pm$ 0.025 χ^2 /NDF: 2704790.3/24

Right Out: 115.110 $\pm$ 0.030 χ^2 /NDF: 895338.3/20

Left In: 144.440 $\pm$ 0.026 χ^2 /NDF: 2586926.1/22

Left: 143.969 $\pm$ 0.018 χ^2 /NDF: 5292363.3/47

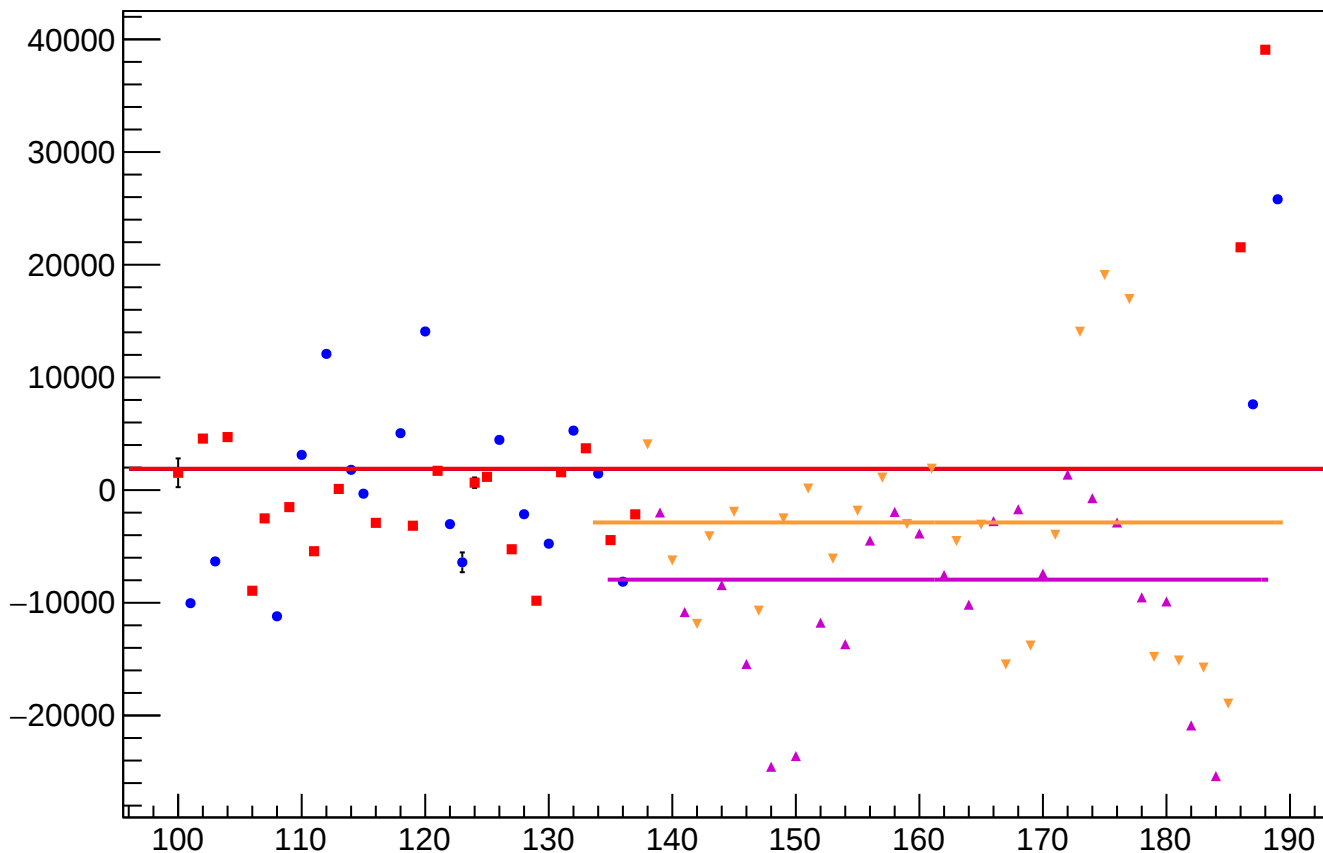
Right: 115.038 $\pm$ 0.022 χ^2 /NDF: 1640599.6/39

In: 132.803 $\pm$ 0.020 χ^2 /NDF: 3850643.7/41

Out: 131.867 $\pm$ 0.019 χ^2 /NDF: 4138785.6/45

All: 132.312 $\pm$ 0.014 χ^2 /NDF: 7990576.3/87

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: 1890.058+/-50.858 χ^2/NDF : 56210.3/20

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

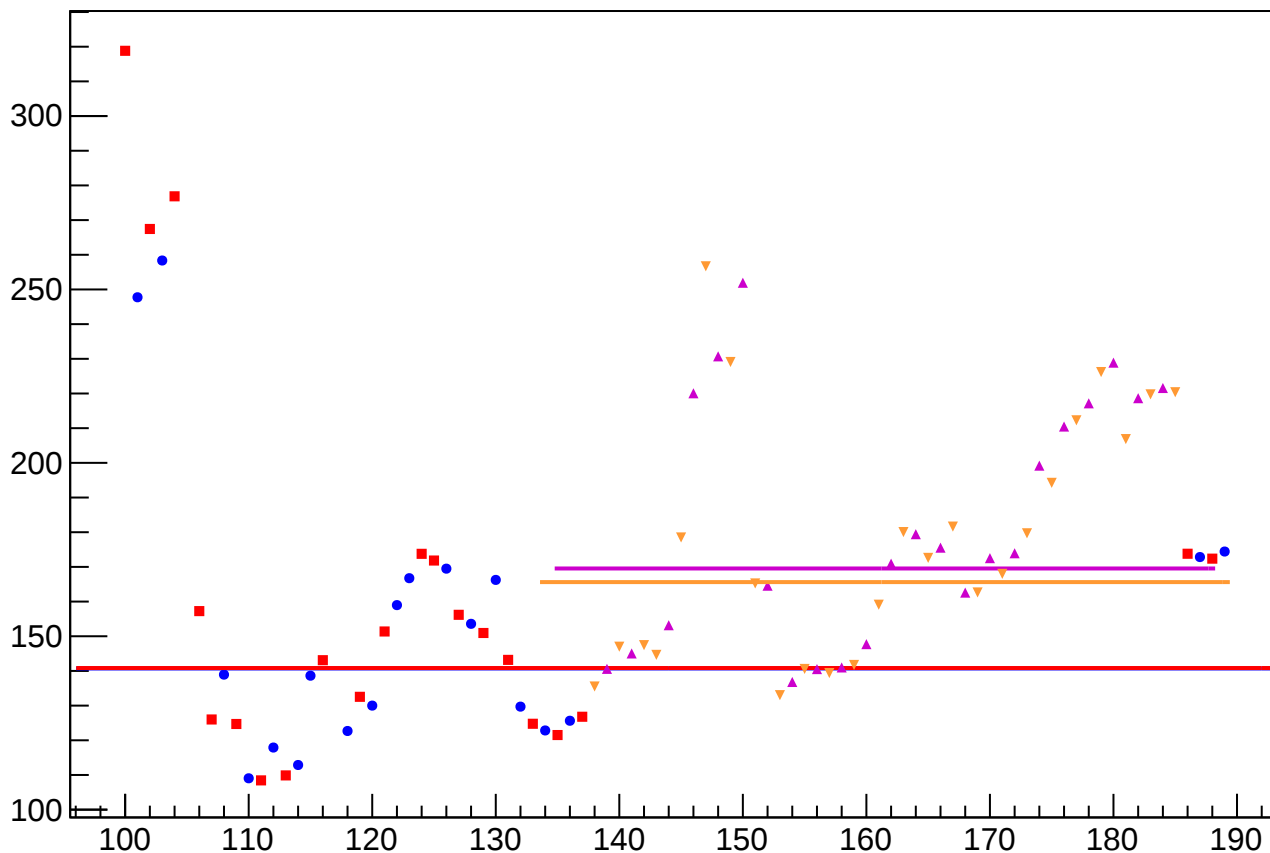
Right: 1884.718+/-37.156 χ^2/NDF : 84069.0/39

In: -4308.979+/-33.112 χ^2/NDF : 72265.7/41

Out: -1080.327+/-31.187 χ^2/NDF : 108097.5/45

All: -2598.118+/-22.703 χ^2/NDF : 185401.4/8

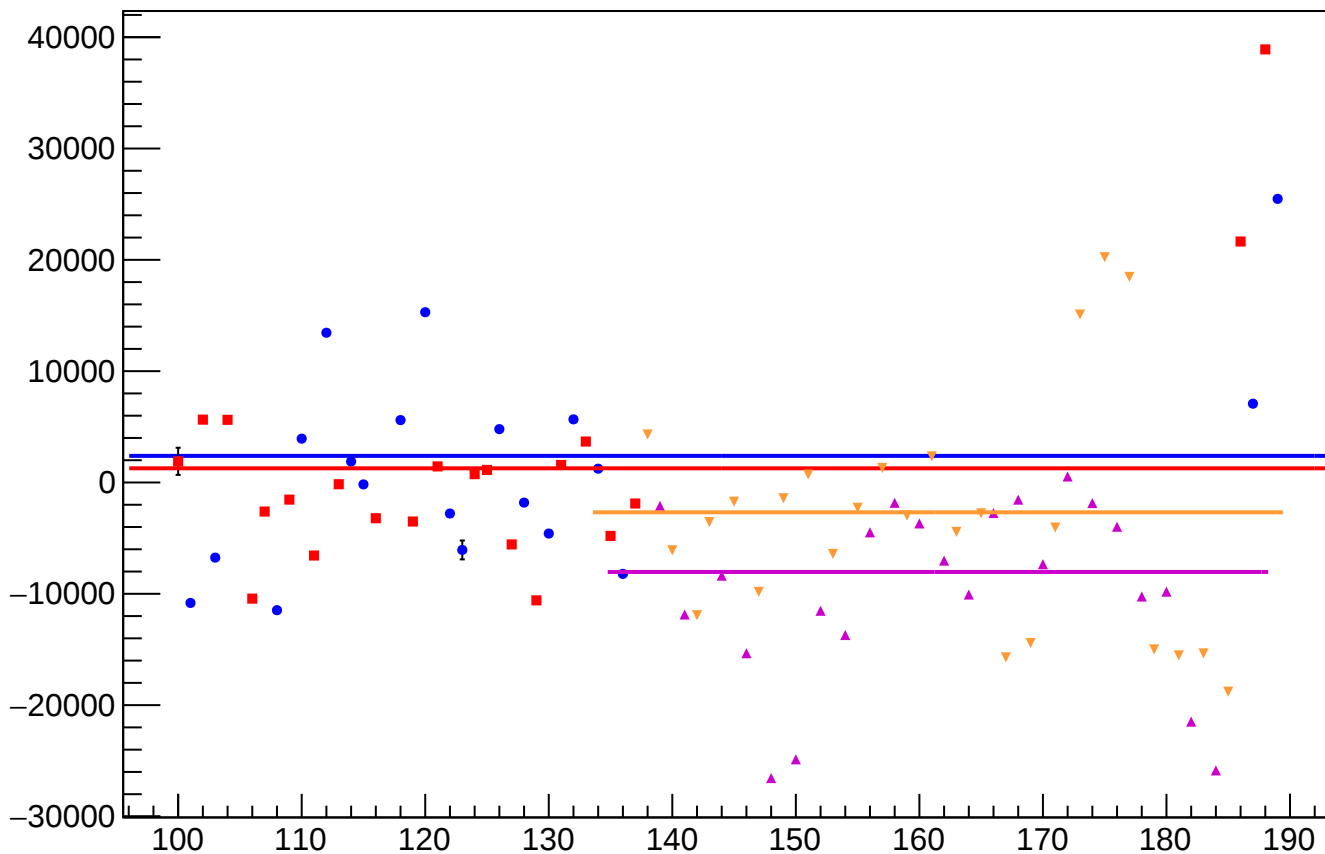
asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 140.713 ± 0.038 $\chi^2/\text{NDF}: 716395.5/18$
 Left Out: 165.616 ± 0.028 $\chi^2/\text{NDF}: 1144779.3/24$
 Right Out: 140.837 ± 0.036 $\chi^2/\text{NDF}: 848897.1/20$
 Left In: 169.542 ± 0.030 $\chi^2/\text{NDF}: 1159241.9/22$

Left: 167.471 ± 0.020 $\chi^2/\text{NDF}: 2313359.6/47$
 Right: 140.779 ± 0.026 $\chi^2/\text{NDF}: 1565298.2/39$
 In: 158.867 ± 0.023 $\chi^2/\text{NDF}: 2229137.4/41$
 Out: 156.298 ± 0.022 $\chi^2/\text{NDF}: 2289907.3/45$
 All: 157.506 ± 0.016 $\chi^2/\text{NDF}: 4525423.2/87$

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 2390.763 $\pm$ 45.311 χ^2/NDF : 42352.8/18

Left Out: -2680.012 $\pm$ 35.764 χ^2/NDF : 56820.4/24

Right Out: 1274.578 $\pm$ 41.947 χ^2/NDF : 79944.9/20

Left In: -8036.826 $\pm$ 37.924 χ^2/NDF : 29261.6/22

Left: -5201.473 $\pm$ 26.019 χ^2/NDF : 96642.3/47

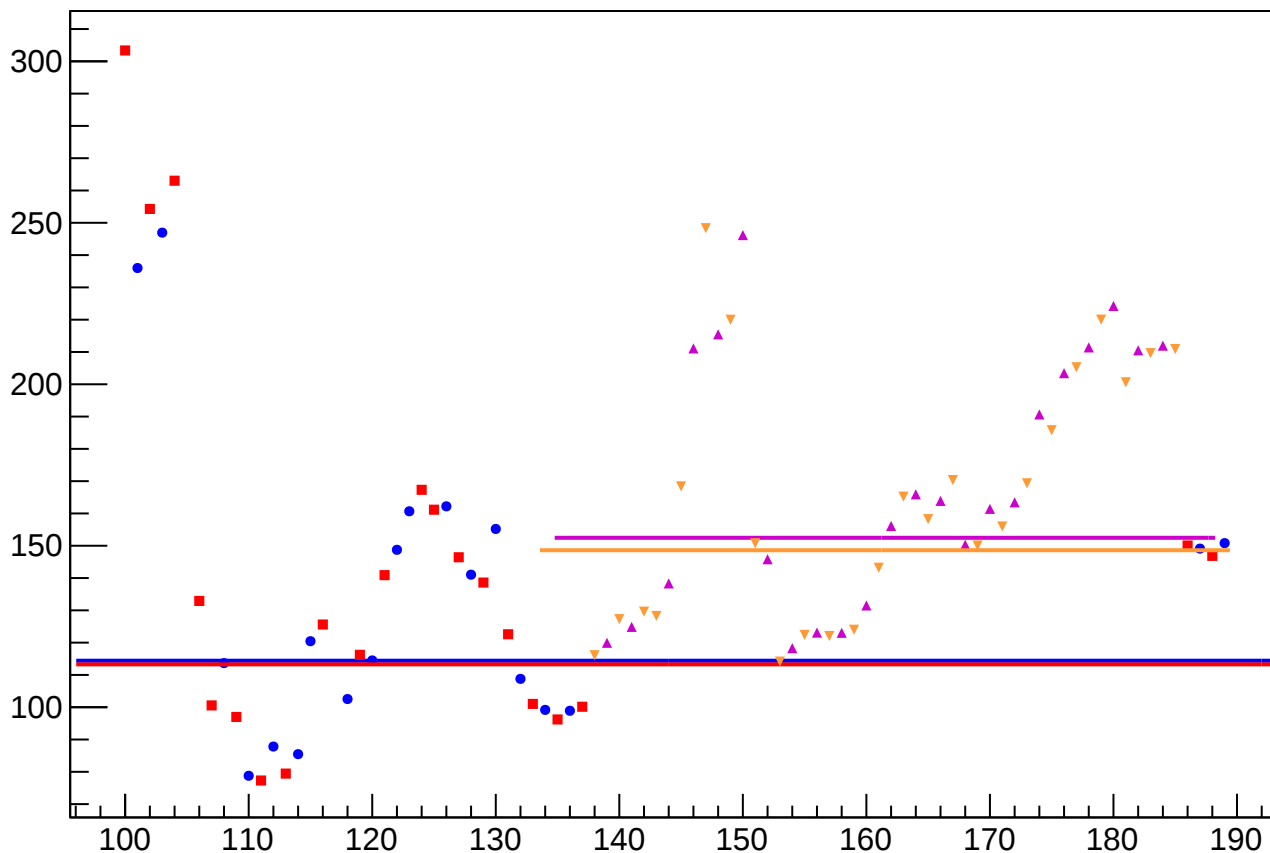
Right: 1789.700 $\pm$ 30.782 χ^2/NDF : 122624.4/39

In: -3741.186 $\pm$ 29.082 χ^2/NDF : 102758.4/41

Out: -1015.392 $\pm$ 27.215 χ^2/NDF : 141912.1/45

All: -2287.978 $\pm$ 19.871 χ^2/NDF : 249353.9/8

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 114.400 ± 0.032 χ^2/NDF : 1199106.3/18

Left Out: 148.611 ± 0.025 χ^2/NDF : 1685424.1/24

Right Out: 113.272 ± 0.030 χ^2/NDF : 1417168.4/20

Left In: 152.463 ± 0.027 χ^2/NDF : 1691517.7/22

Left: 150.424 ± 0.018 χ^2/NDF : 3387867.0/47

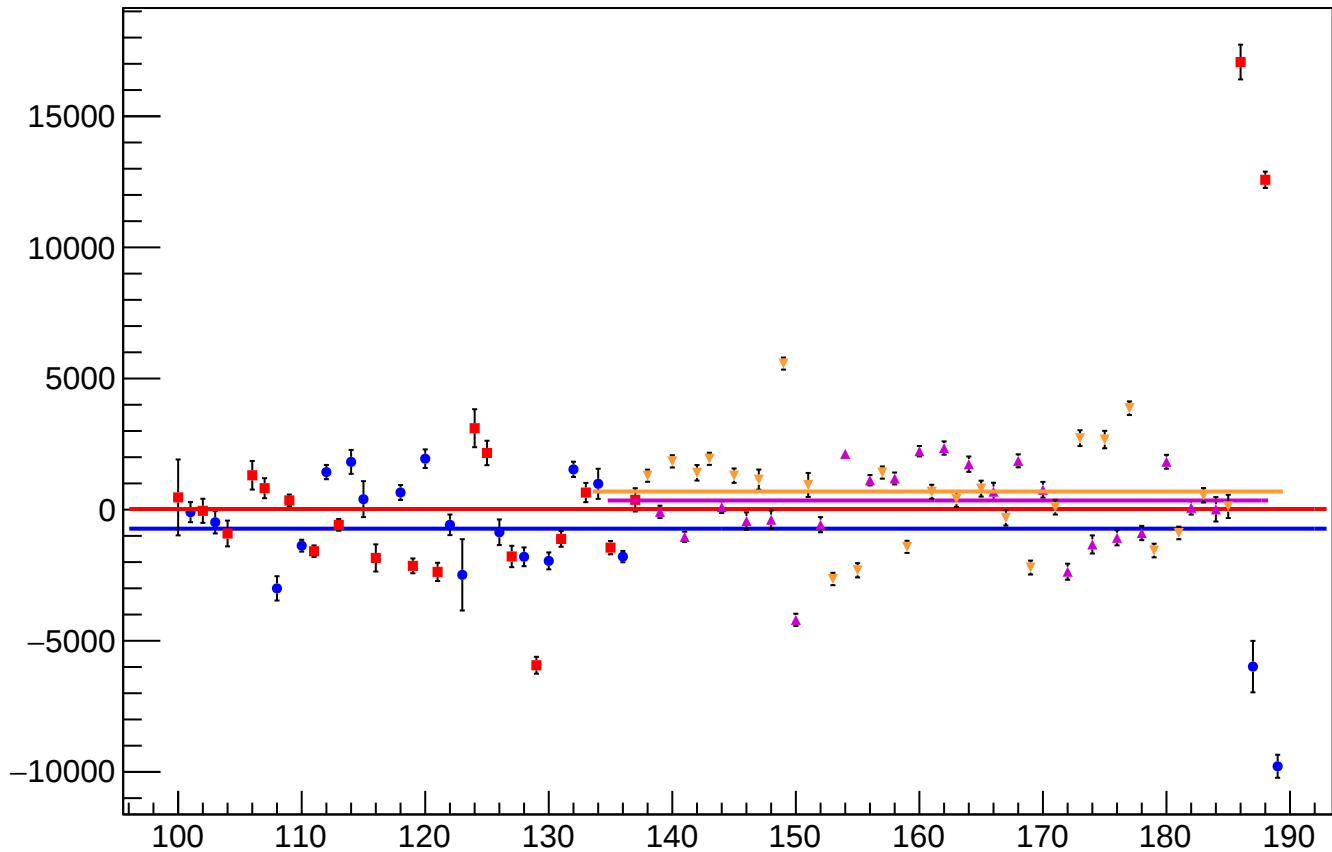
Right: 113.792 ± 0.022 χ^2/NDF : 2616941.8/39

In: 136.783 ± 0.021 χ^2/NDF : 3720592.5/41

Out: 133.735 ± 0.019 χ^2/NDF : 3924579.5/45

All: 135.158 ± 0.014 χ^2/NDF : 7656881.6/87

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: 24.433 ± 74.866 $\chi^2/\text{NDF}: 2932.4/20$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

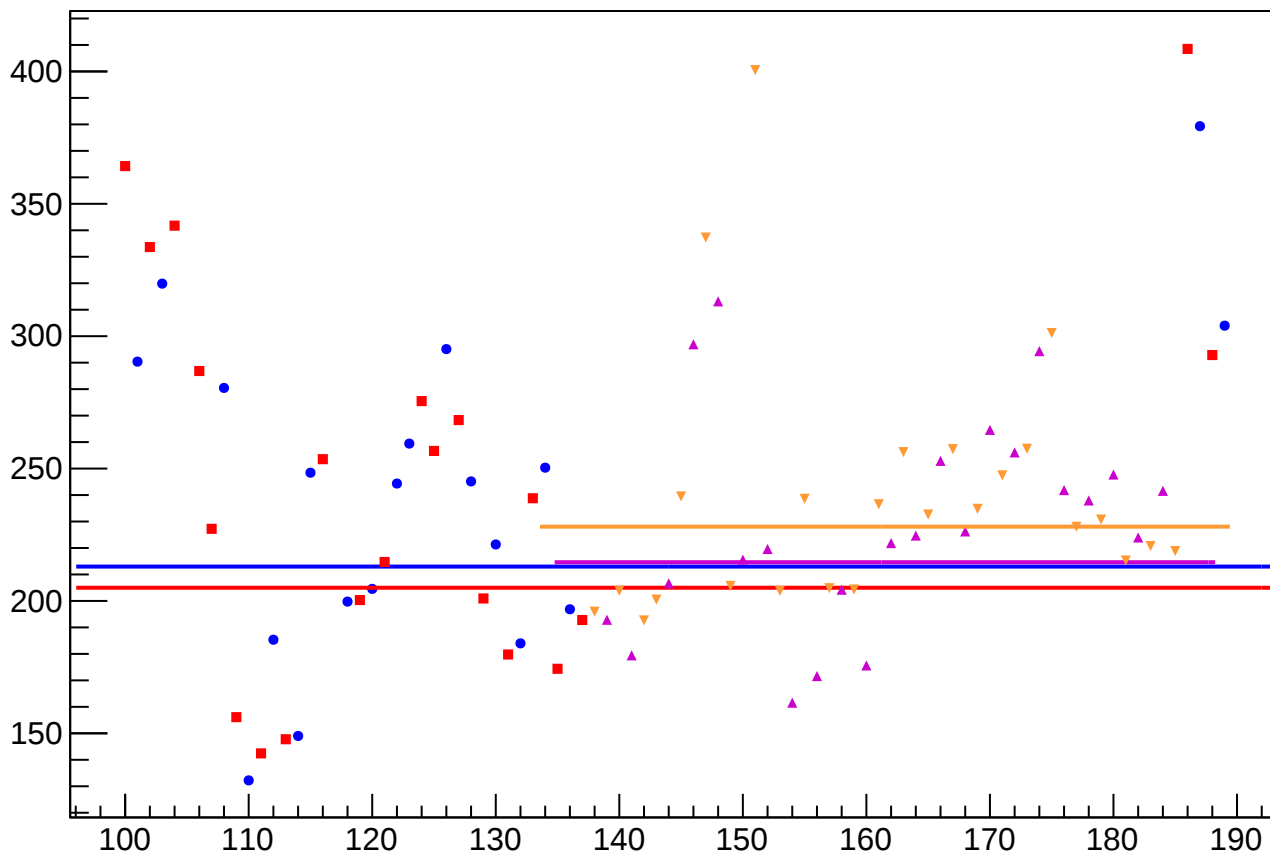
Right: -315.372 ± 55.359 $\chi^2/\text{NDF}: 3762.5/39$

In: 33.338 ± 44.604 $\chi^2/\text{NDF}: 1886.2/41$

Out: 462.517 ± 43.958 $\chi^2/\text{NDF}: 4406.7/45$

All: 251.059 ± 31.309 $\chi^2/\text{NDF}: 6339.8/87$

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: 204.986+/-0.053 χ^2/NDF : 1296139.8/20

Left In: 214.627+/-0.038 χ^2/NDF :1025683.3/22

Left: 221.193+/-0.027 χ^2/NDF : 1914604.4/47

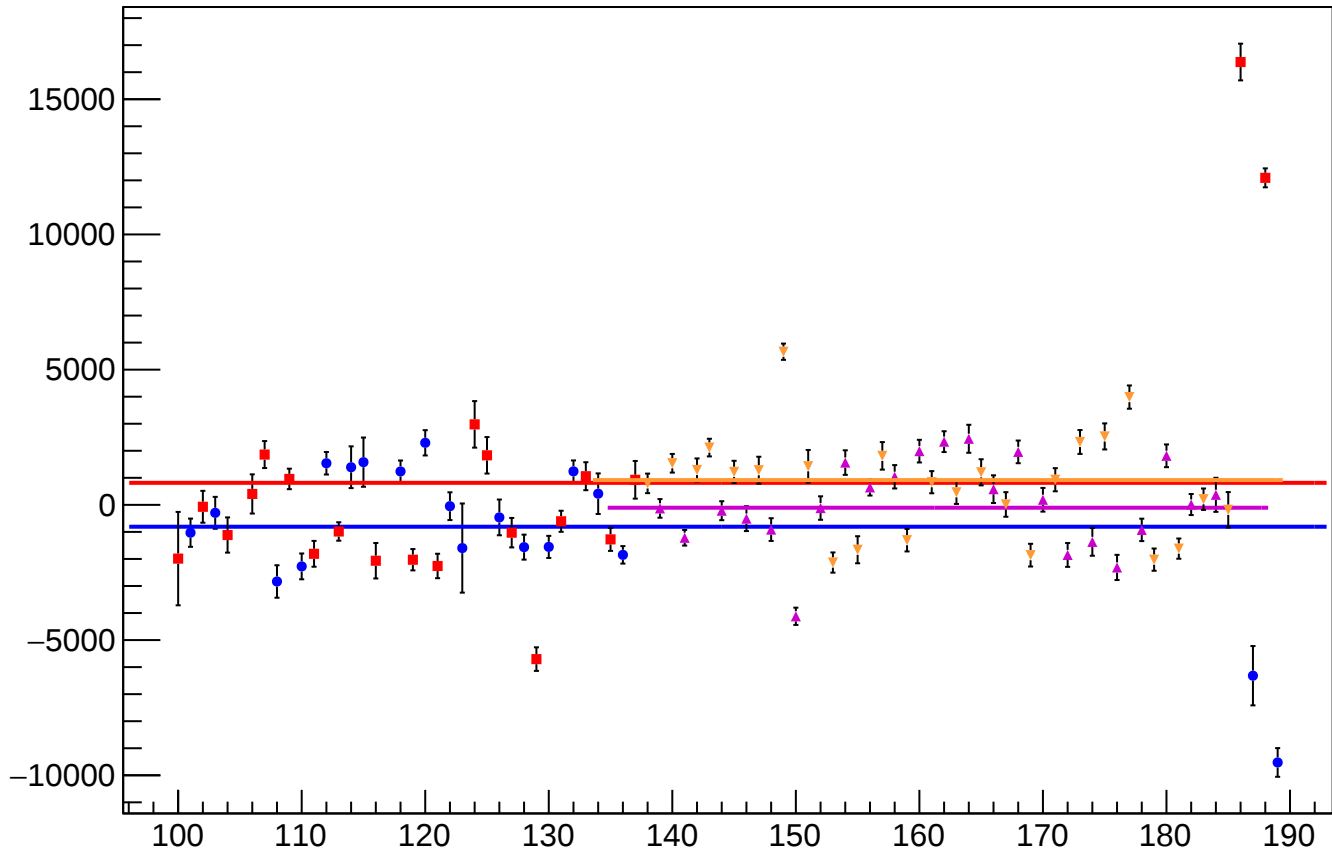
Right: 208.610+/-0.039 χ^2/NDF : 2152682.6/39

In: 214.143+/-0.032 χ^2/NDF :1872455.3/41

Out: 220.106+/-0.031 χ^2/NDF :2246974.6/45

All: 217.168+/-0.022 χ^2/NDF : 4137565.9/87

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: 814.814 ± 108.156 $\chi^2/\text{NDF}: 2037.2/20$

Left In: -106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

Left: 410.985 ± 59.320 $\chi^2/\text{NDF}: 1082.8/47$

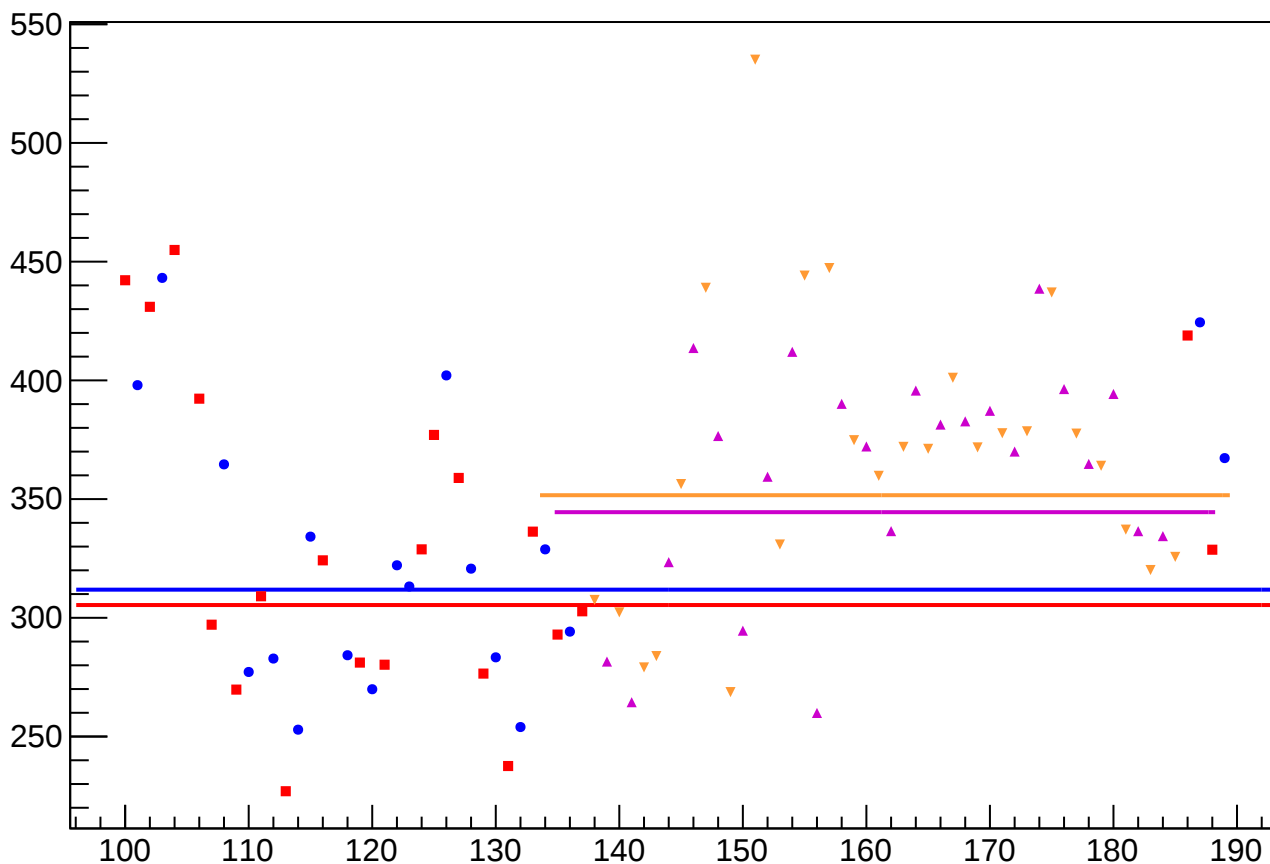
Right: 72.368 ± 79.672 $\chi^2/\text{NDF}: 2621.1/39$

In: -344.319 ± 68.606 $\chi^2/\text{NDF}: 894.6/41$

Out: 878.250 ± 66.044 $\chi^2/\text{NDF}: 2656.1/45$

All: 290.218 ± 47.580 $\chi^2/\text{NDF}: 3715.5/87$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 311.858 ± 0.083 χ^2/NDF : 366900.1/18

Left Out: 351.633 ± 0.059 χ^2/NDF : 907849.3/24

Right Out: 305.381 ± 0.076 χ^2/NDF : 563403.4/20

Left In: 344.491 ± 0.060 χ^2/NDF : 768885.4/22

Left: 348.104 ± 0.042 χ^2/NDF : 1683981.7/47

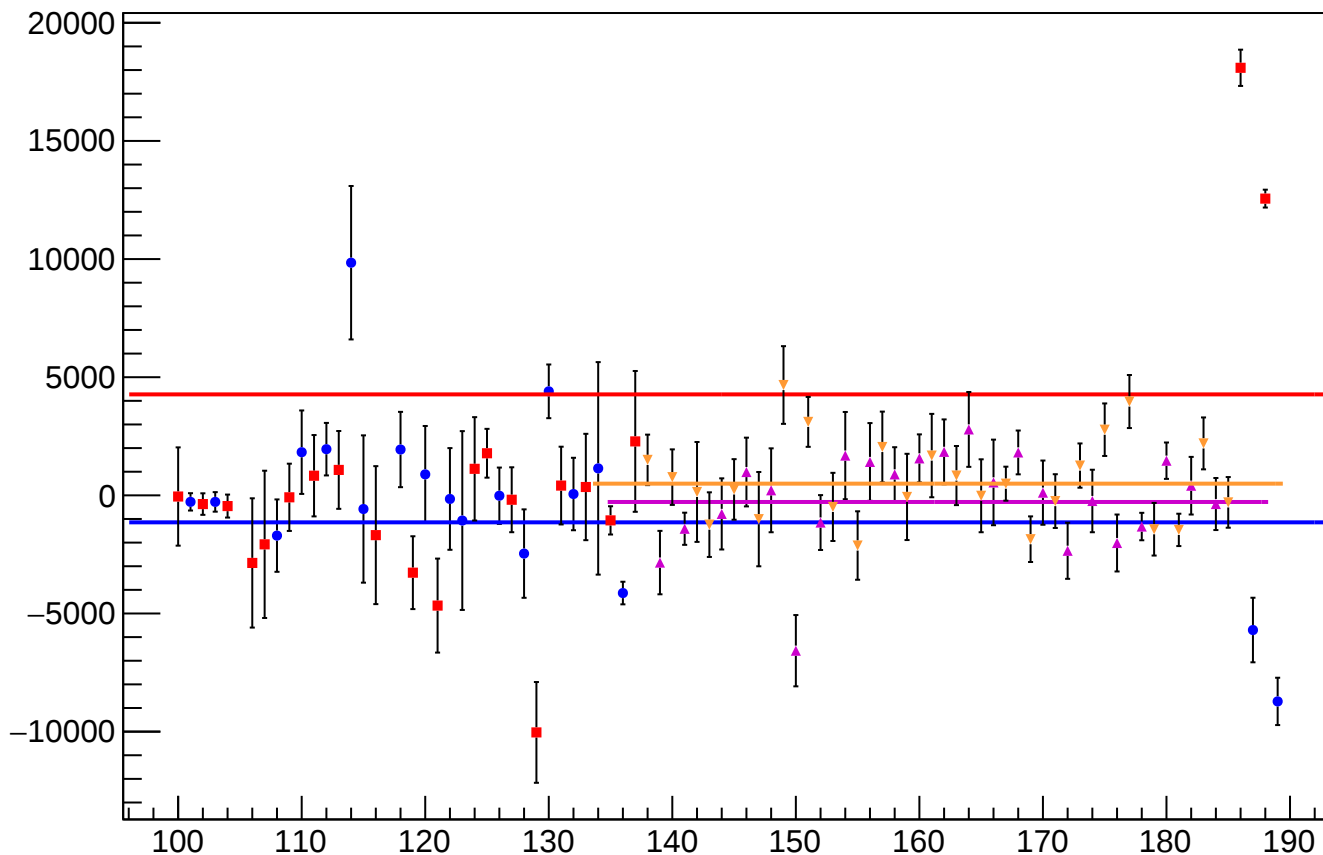
Right: 308.343 ± 0.056 χ^2/NDF : 933584.2/39

In: 333.424 ± 0.049 χ^2/NDF : 1237199.9/41

Out: 334.387 ± 0.047 χ^2/NDF : 1700625.8/45

All: 333.924 ± 0.034 χ^2/NDF : 2938030.1/87

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: 4273.032 ± 197.762 $\chi^2/\text{NDF}: 1235.5/20$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

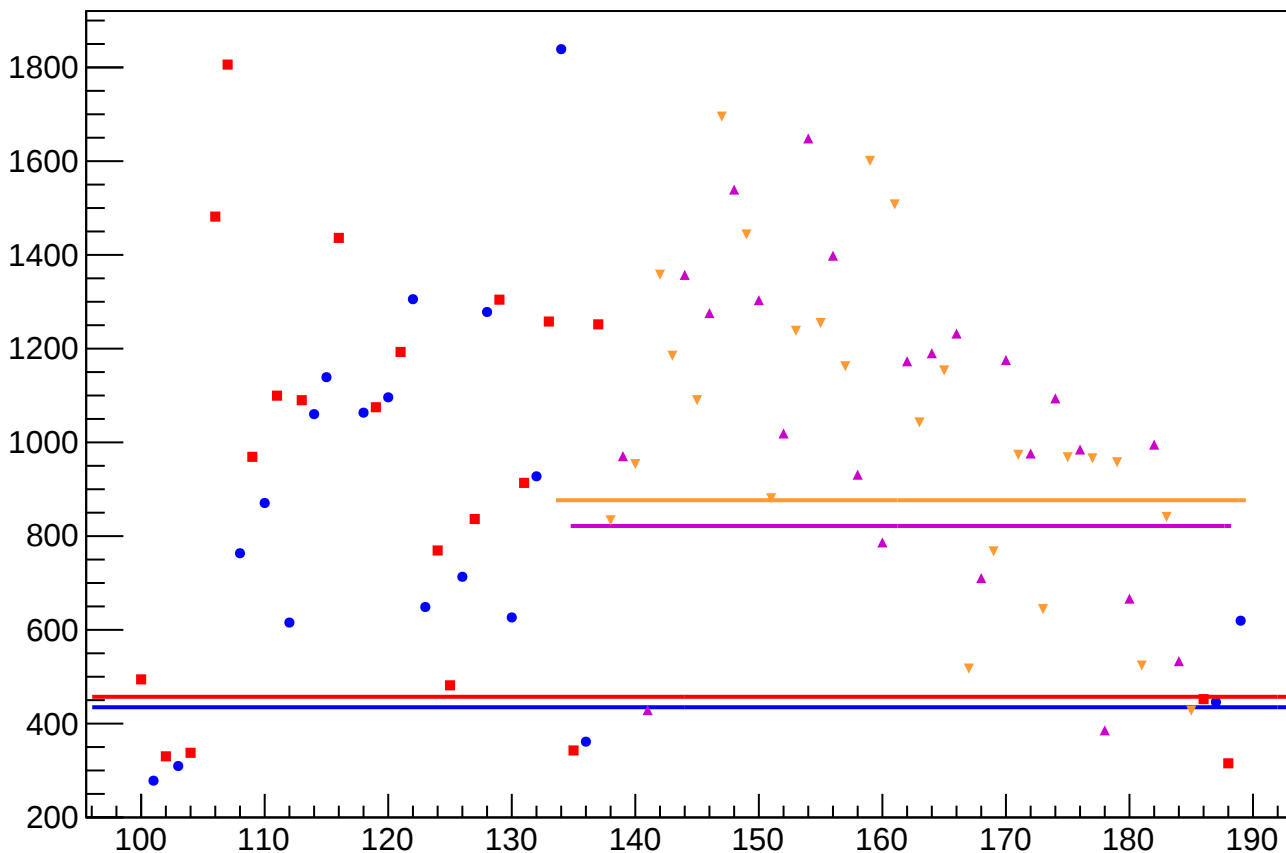
Right: 1645.417 ± 141.892 $\chi^2/\text{NDF}: 1770.0/39$

In: -767.357 ± 153.085 $\chi^2/\text{NDF}: 235.7/41$

Out: 2675.618 ± 150.244 $\chi^2/\text{NDF}: 1446.1/45$

All: 986.366 ± 107.229 $\chi^2/\text{NDF}: 1939.4/87$

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: 457.243 $\pm$ 0.140 χ^2/NDF : 3999058.1/20

Left In: 821.657 $\pm$ 0.164 χ^2/NDF : 4443094.2/22

Left: 849.226 $\pm$ 0.116 χ^2/NDF : 7934012.4/47

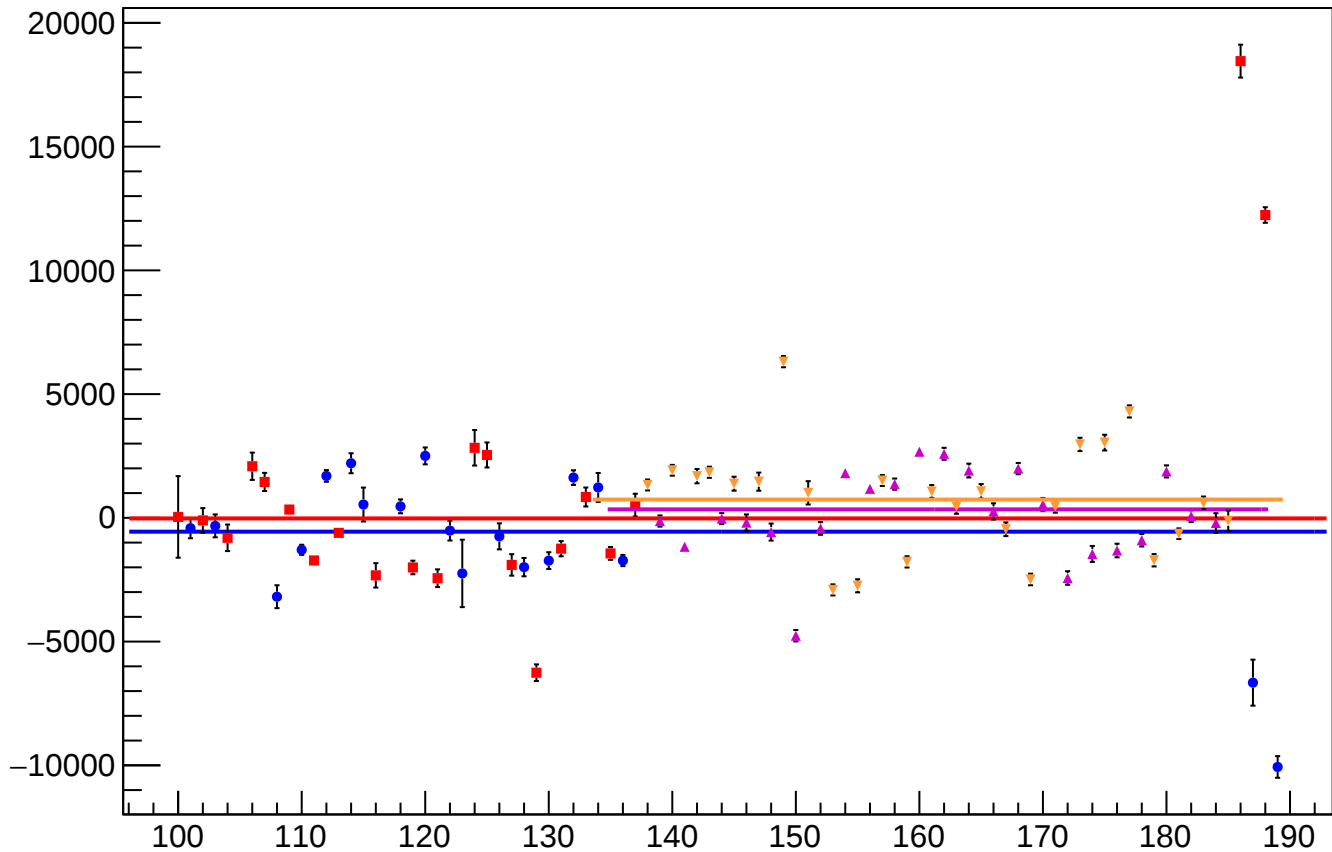
Right: 446.421 $\pm$ 0.100 χ^2/NDF : 6945768.5/39

In: 603.246 $\pm$ 0.108 χ^2/NDF : 10514693.2/41

Out: 634.538 $\pm$ 0.106 χ^2/NDF : 11235514.6/45

All: 619.185 $\pm$ 0.076 χ^2/NDF : 21792773.9/87

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: -23.122 $\pm$ 72.626 χ^2 /NDF: 2976.9/20

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

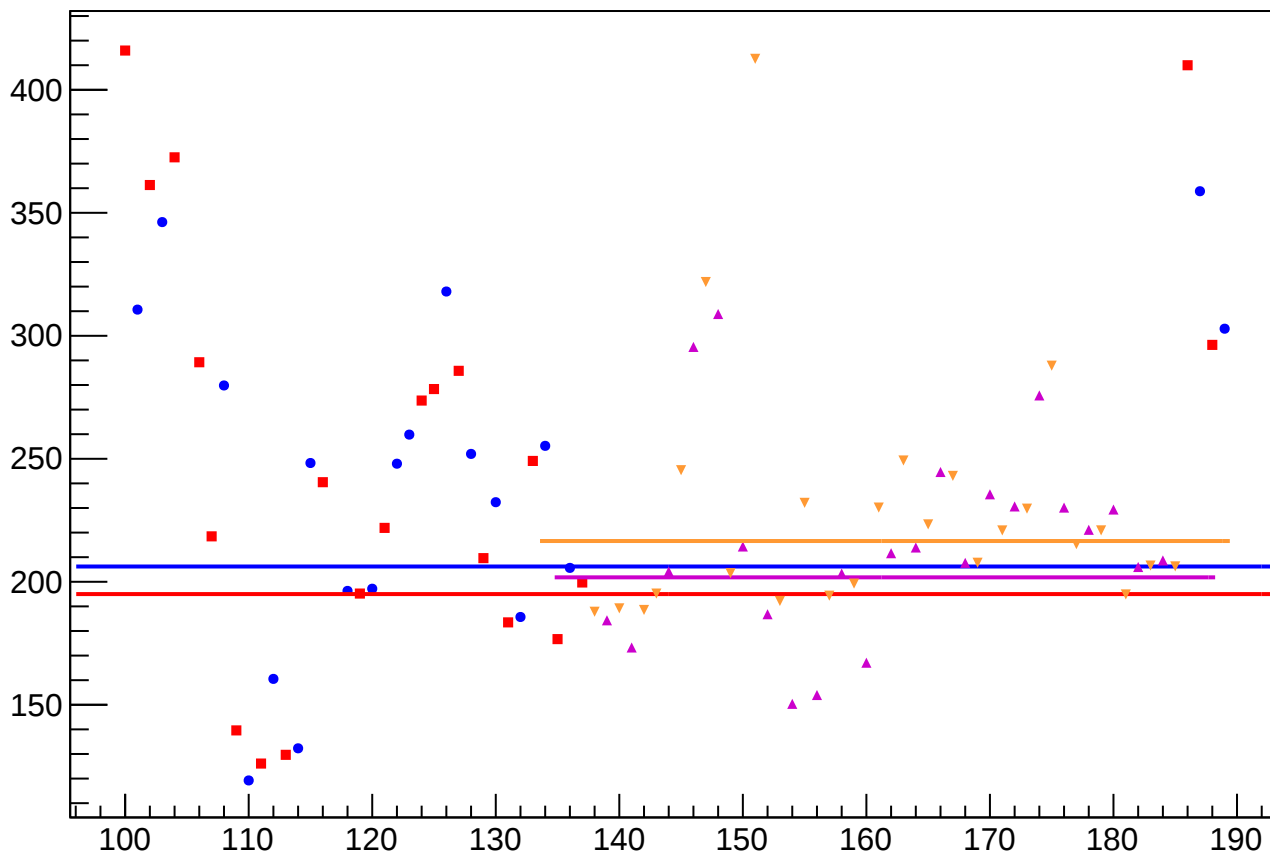
Right: -262.527 $\pm$ 54.016 χ^2 /NDF: 3914.7/39

In: 92.588 $\pm$ 42.546 χ^2 /NDF:2258.3/41

Out: 482.915 $\pm$ 42.091 χ^2 /NDF:4985.2/45

All: 289.852 $\pm$ 29.922 χ^2 /NDF: 7286.1/87

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 206.215 ± 0.057 $\chi^2/\text{NDF}: 1210167.7/18$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 195.004 ± 0.051 $\chi^2/\text{NDF}: 1829348.8/20$

Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

Left: 208.957 ± 0.025 $\chi^2/\text{NDF}: 2057801.5/47$

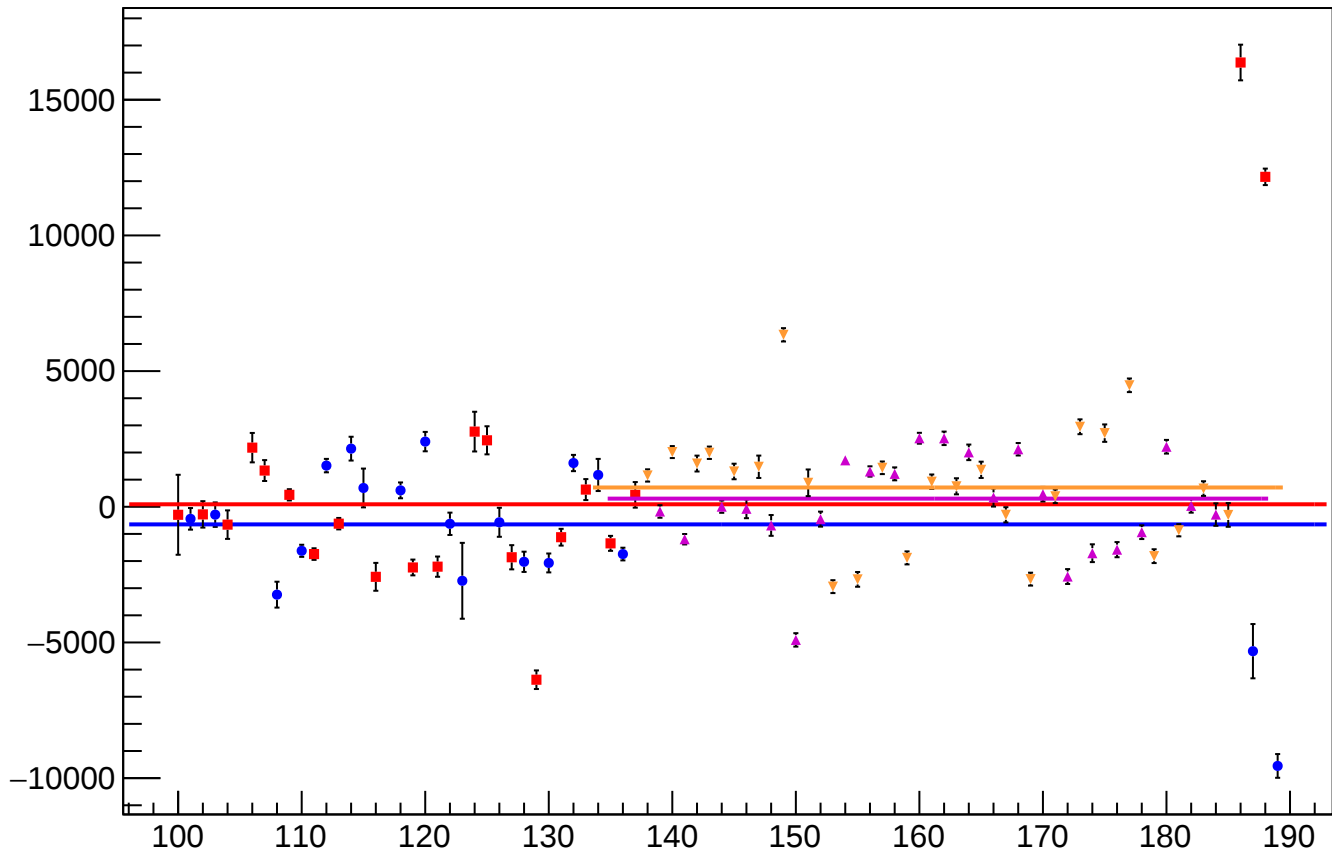
Right: 200.013 ± 0.038 $\chi^2/\text{NDF}: 3060813.8/39$

In: 203.028 ± 0.030 $\chi^2/\text{NDF}: 2301716.0/41$

Out: 209.329 ± 0.030 $\chi^2/\text{NDF}: 2832733.1/45$

All: 206.212 ± 0.021 $\chi^2/\text{NDF}: 5156619.2/87$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -648.763 ± 83.739 χ^2/NDF : 818.0/18

Left Out: 711.174 ± 53.245 χ^2/NDF : 1835.3/24

Right Out: 91.956 ± 75.407 χ^2/NDF : 2892.4/20

Left In: 300.516 ± 51.984 χ^2/NDF : 1208.6/22

Left: 500.925 ± 37.196 χ^2/NDF : 3074.4/47

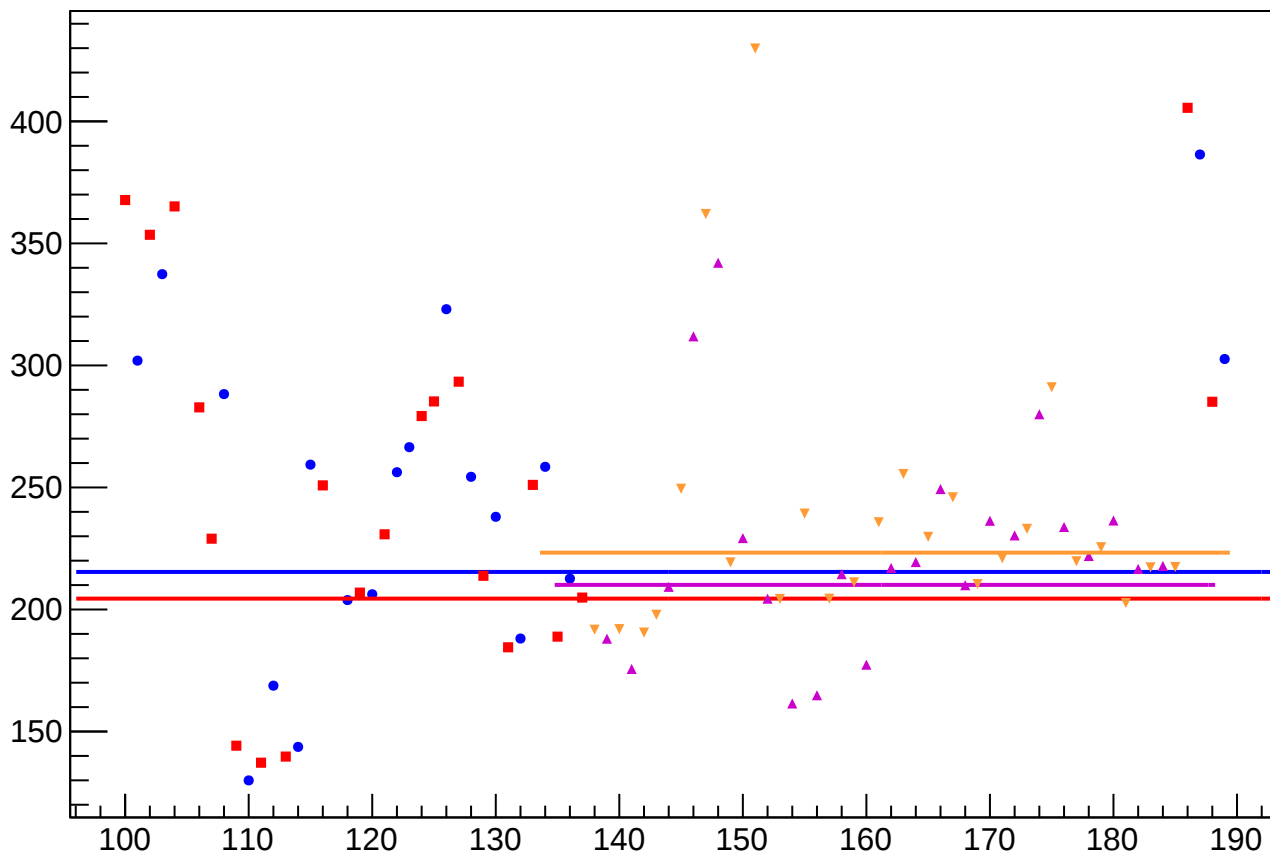
Right: -239.730 ± 56.036 χ^2/NDF : 3753.6/39

In: 36.454 ± 44.166 χ^2/NDF : 2119.4/41

Out: 505.161 ± 43.495 χ^2/NDF : 4772.7/45

All: 274.394 ± 30.990 χ^2/NDF : 6949.3/87

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 215.389 ± 0.059 χ^2/NDF : 1016963.8/18

Left Out: 223.296 ± 0.038 χ^2/NDF : 922768.4/24

Right Out: 204.455 ± 0.053 χ^2/NDF : 1552037.7/20

Left In: 210.080 ± 0.037 χ^2/NDF : 1015274.5/22

Left: 216.530 ± 0.026 χ^2/NDF : 2001132.1/47

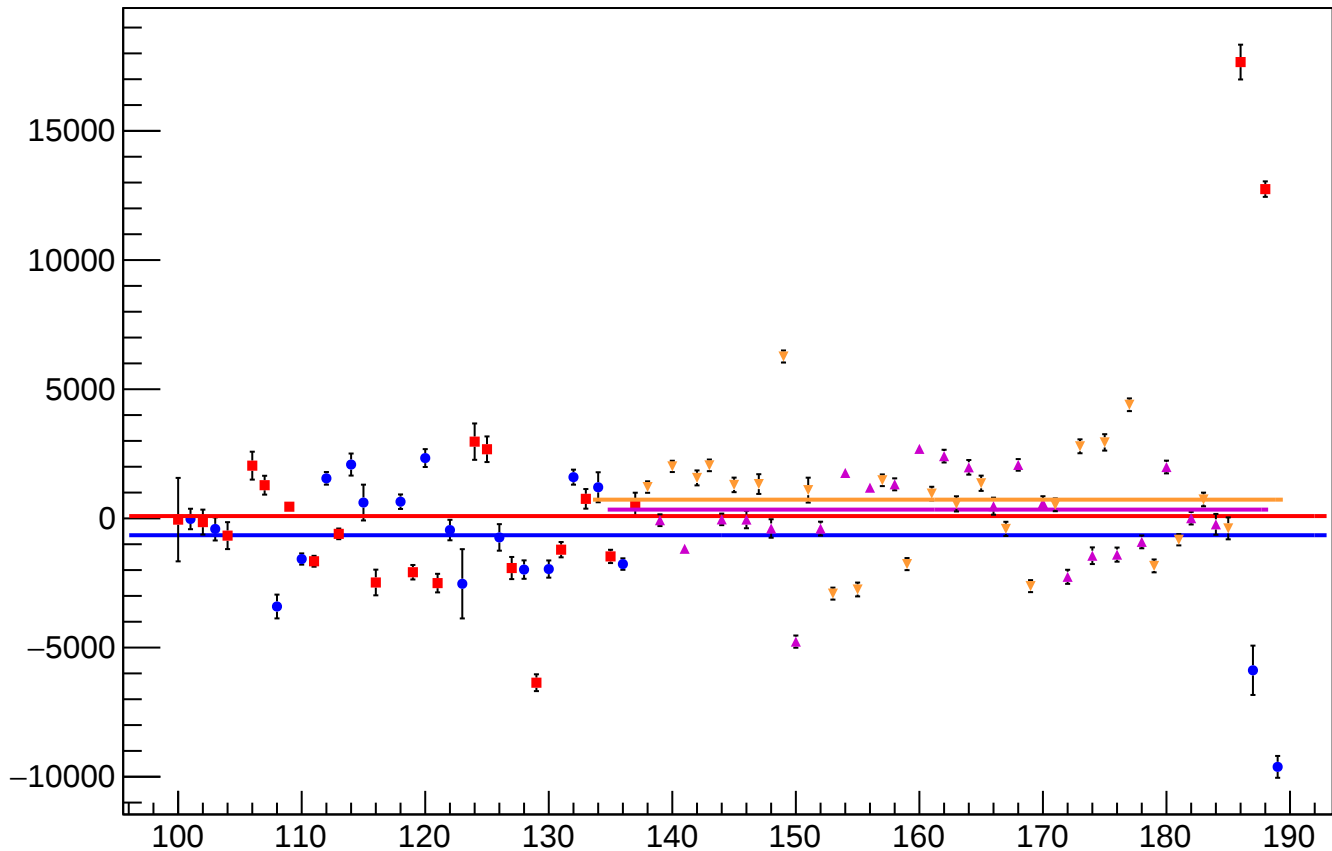
Right: 209.351 ± 0.040 χ^2/NDF : 2587830.1/39

In: 211.557 ± 0.031 χ^2/NDF : 2038041.7/41

Out: 217.028 ± 0.031 χ^2/NDF : 2558122.1/45

All: 214.334 ± 0.022 χ^2/NDF : 4611744.3/87

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -651.386 ± 81.149 $\chi^2/\text{NDF}: 884.2/18$

Left Out: 725.866 ± 52.158 $\chi^2/\text{NDF}: 1912.7/24$

Right Out: 90.161 ± 72.761 $\chi^2/\text{NDF}: 3227.7/20$

Left In: 340.502 ± 50.802 $\chi^2/\text{NDF}: 1201.8/22$

Left: 528.110 ± 36.393 $\chi^2/\text{NDF}: 3142.6/47$

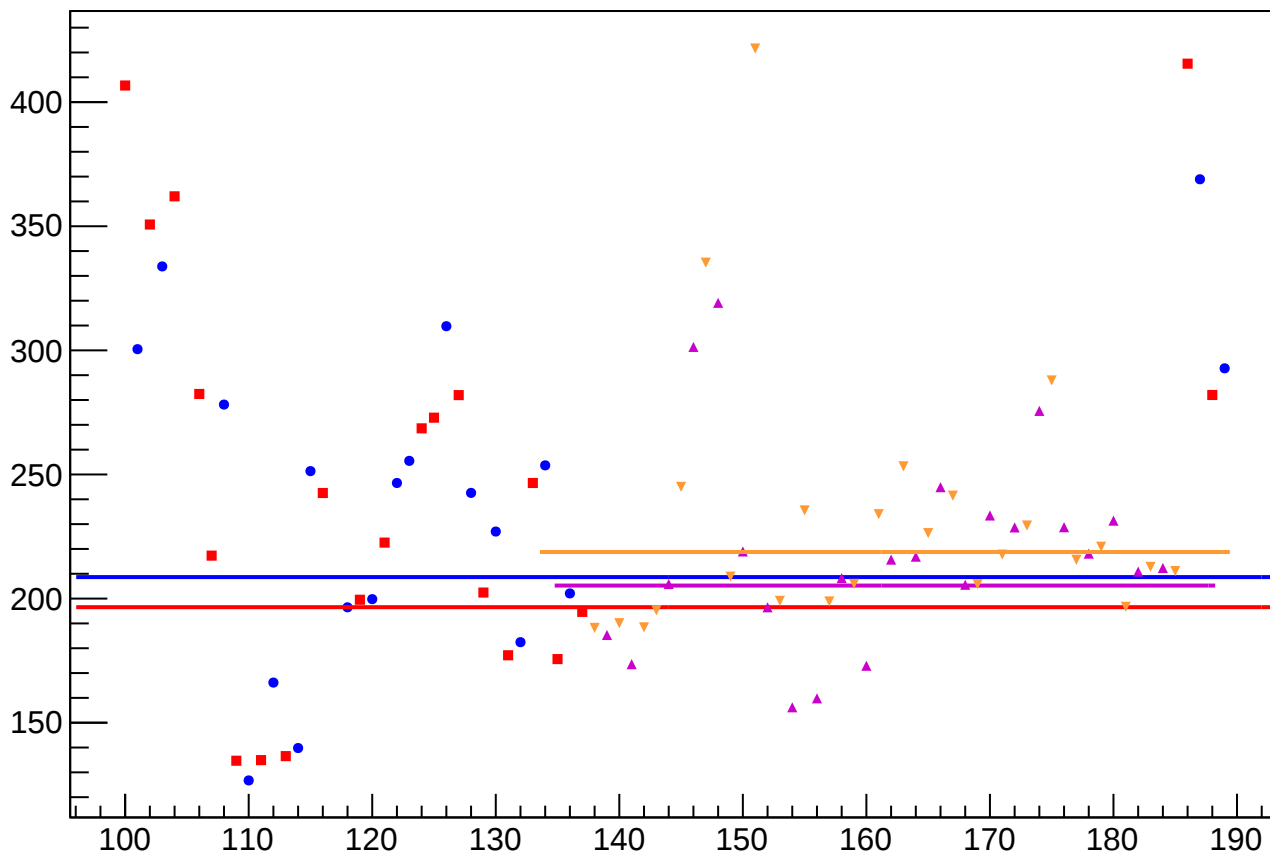
Right: -240.318 ± 54.174 $\chi^2/\text{NDF}: 4158.2/39$

In: 61.217 ± 43.060 $\chi^2/\text{NDF}: 2193.4/41$

Out: 510.083 ± 42.392 $\chi^2/\text{NDF}: 5190.8/45$

All: 289.162 ± 30.209 $\chi^2/\text{NDF}: 7439.4/87$

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 208.661 ± 0.057 $\chi^2/\text{NDF}: 1007285.3/18$

Left Out: 218.768 ± 0.037 $\chi^2/\text{NDF}: 896914.5/24$

Right Out: 196.542 ± 0.051 $\chi^2/\text{NDF}: 1644889.2/20$

Left In: 205.249 ± 0.036 $\chi^2/\text{NDF}: 997168.8/22$

Left: 211.831 ± 0.026 $\chi^2/\text{NDF}: 1963037.5/47$

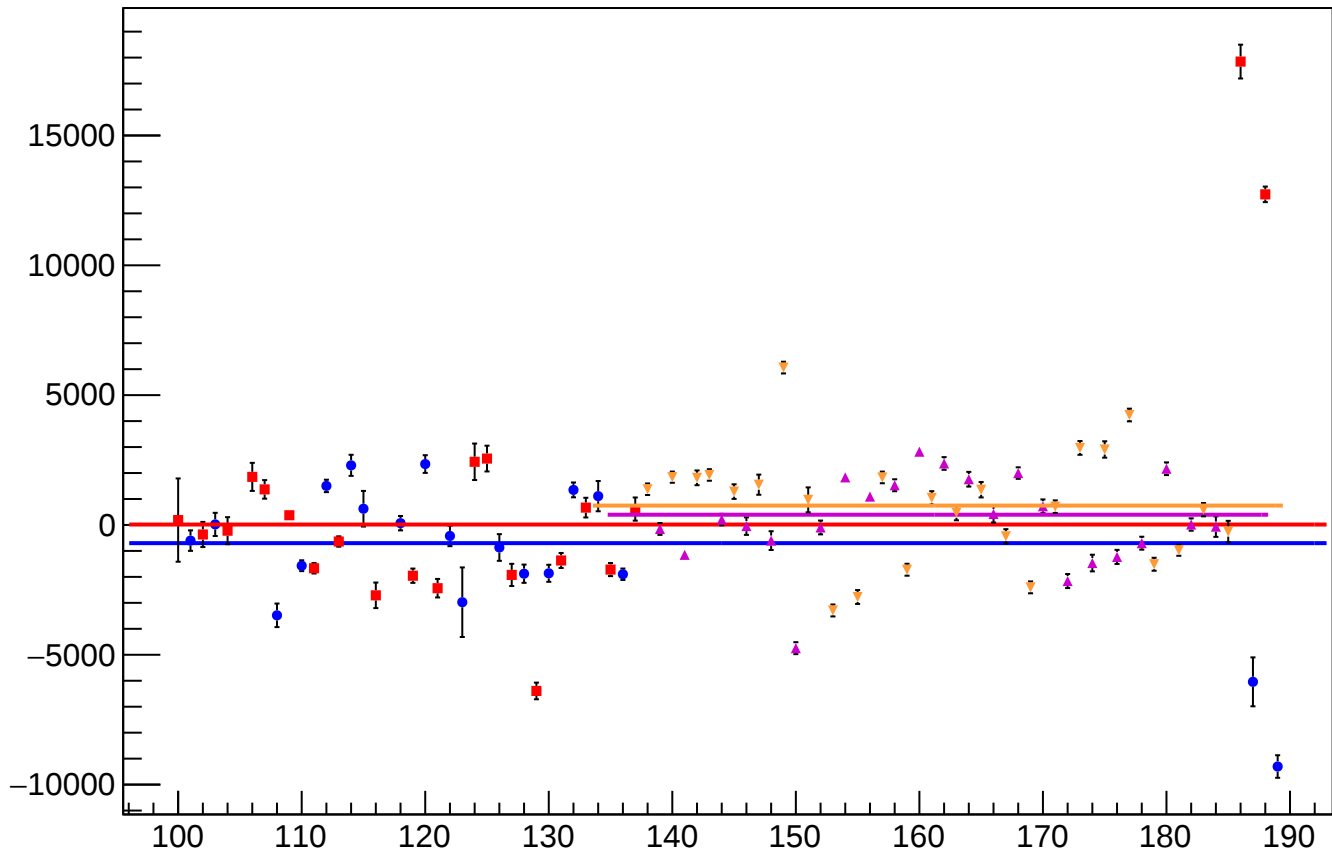
Right: 201.943 ± 0.038 $\chi^2/\text{NDF}: 2676899.0/39$

In: 206.210 ± 0.030 $\chi^2/\text{NDF}: 2006993.6/41$

Out: 211.224 ± 0.030 $\chi^2/\text{NDF}: 2665080.1/45$

All: 208.756 ± 0.021 $\chi^2/\text{NDF}: 4685846.6/87$

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -700.676 $\pm$ 79.831 χ^2/NDF : 830.2/18

Left Out: 746.405 $\pm$ 51.592 χ^2/NDF :1942.1/24

Right Out: 16.266 $\pm$ 71.278 χ^2/NDF : 3319.7/20

Left In: 394.379 $\pm$ 50.311 χ^2/NDF :1236.4/22

Left: 565.969 $\pm$ 36.020 χ^2/NDF : 3202.4/47

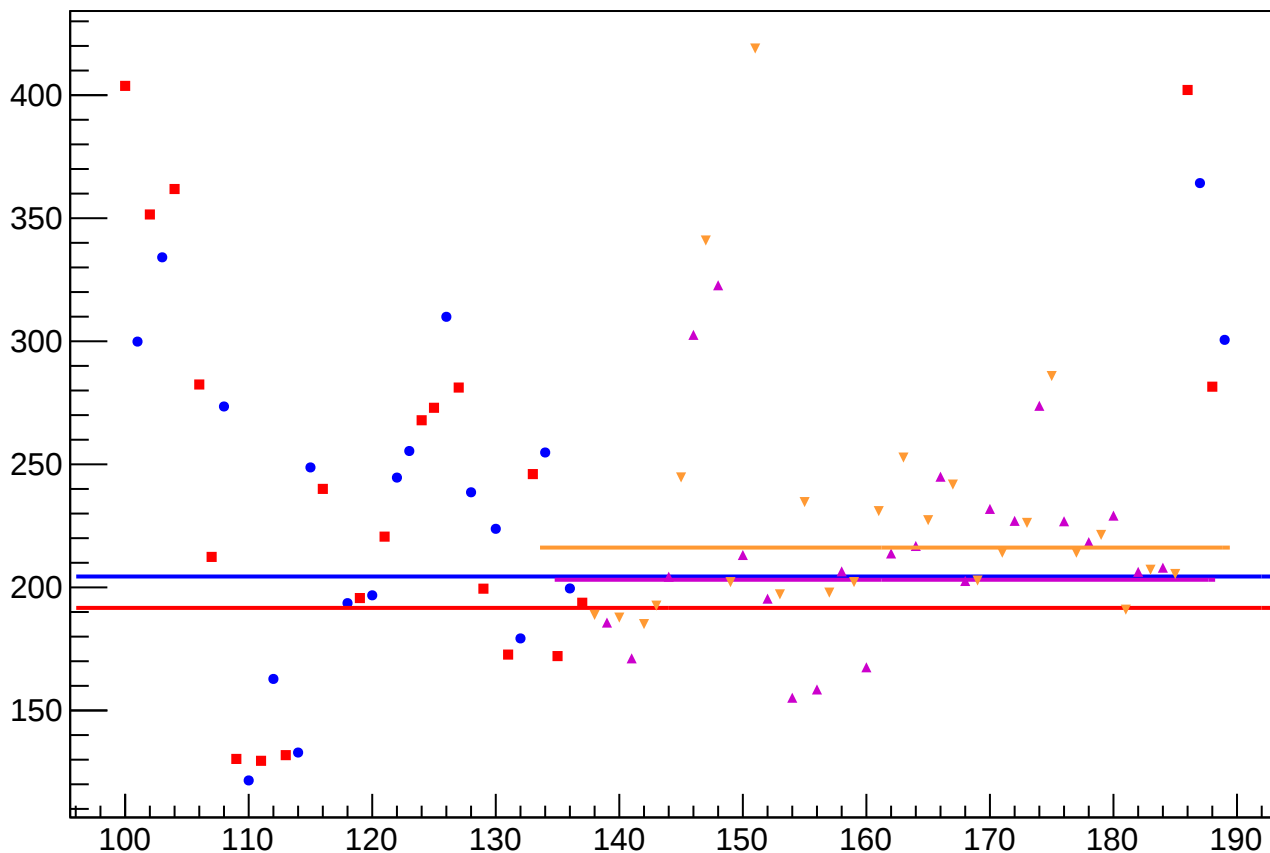
Right: -301.754 $\pm$ 53.169 χ^2/NDF : 4194.8/39

In: 83.083 $\pm$ 42.564 χ^2/NDF :2201.3/41

Out: 495.390 $\pm$ 41.793 χ^2/NDF :5330.7/45

All: 293.004 $\pm$ 29.821 χ^2/NDF : 7579.7/87

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: 191.670 $\pm$ 0.050 χ^2/NDF : 1758718.3/20

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

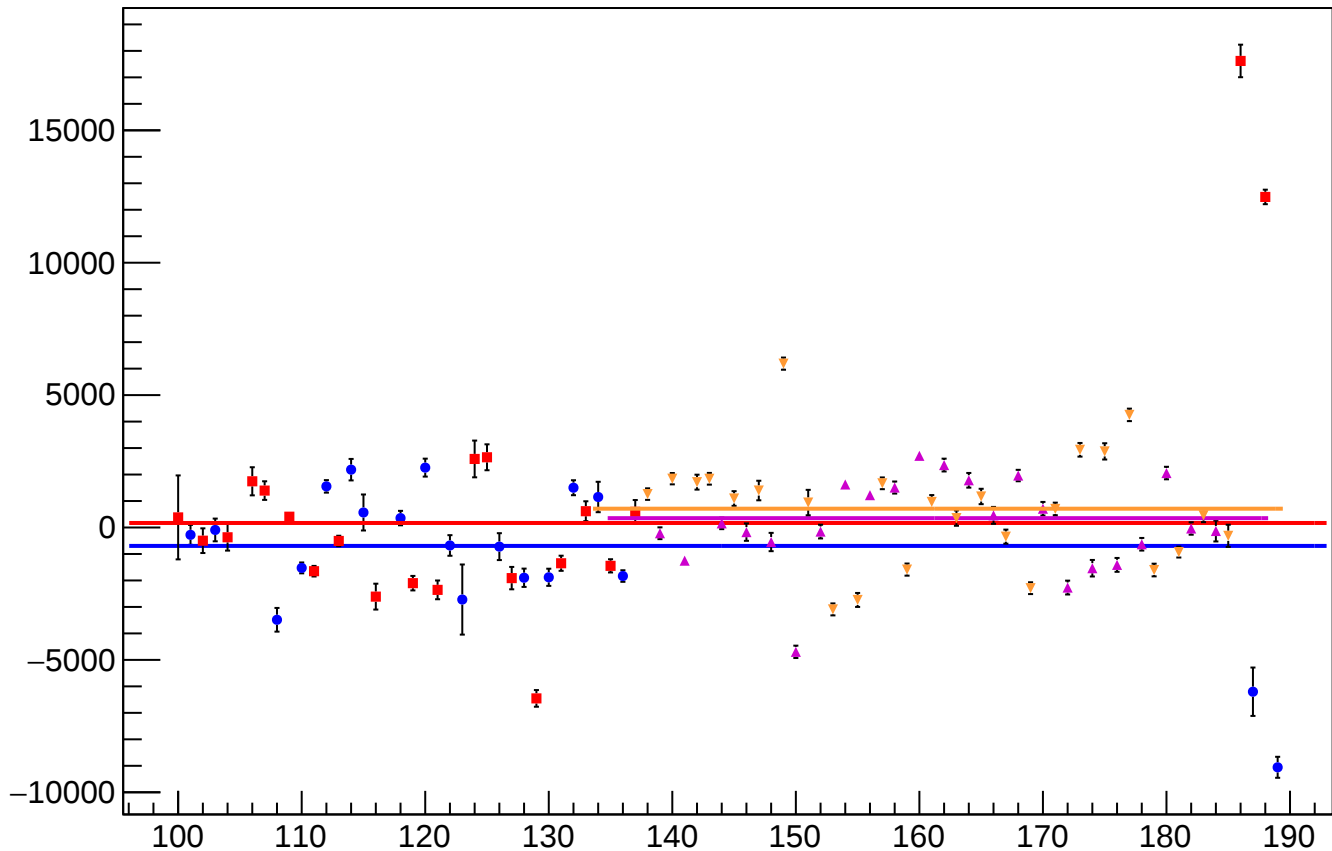
Right: 197.330 $\pm$ 0.038 χ^2/NDF : 2889756.1/39

In: 203.478 $\pm$ 0.030 χ^2/NDF : 2141024.6/41

Out: 207.752 $\pm$ 0.030 χ^2/NDF : 2859922.7/45

All: 205.654 $\pm$ 0.021 χ^2/NDF : 5011215.8/87

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: 170.763 ± 69.830 $\chi^2/\text{NDF}: 3674.4/20$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

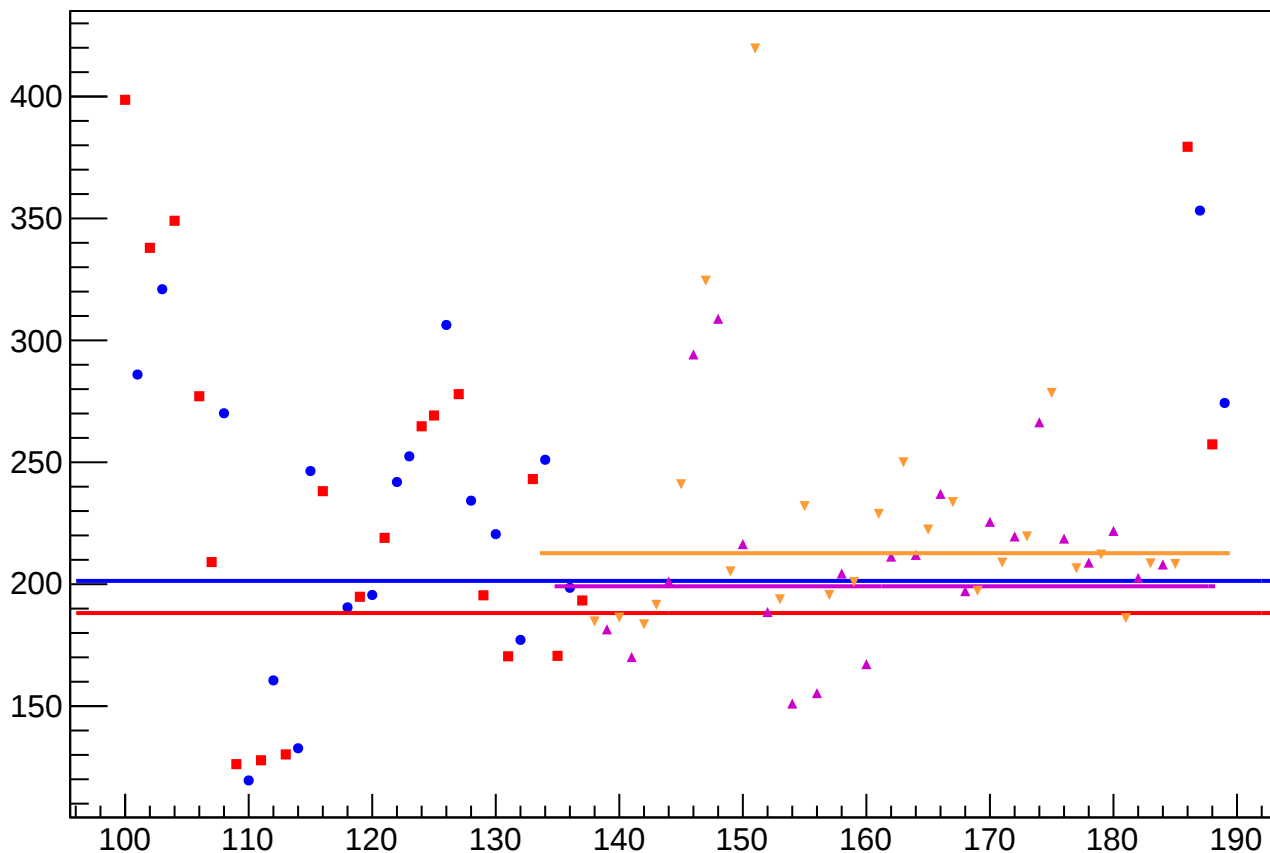
Right: -212.047 ± 52.164 $\chi^2/\text{NDF}: 4642.9/39$

In: 55.723 ± 41.754 $\chi^2/\text{NDF}: 2261.3/41$

Out: 523.775 ± 41.053 $\chi^2/\text{NDF}: 5645.8/45$

All: 293.708 ± 29.274 $\chi^2/\text{NDF}: 7971.0/87$

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: 188.170 $\pm$ 0.049 χ^2/NDF : 1684372.1/20

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

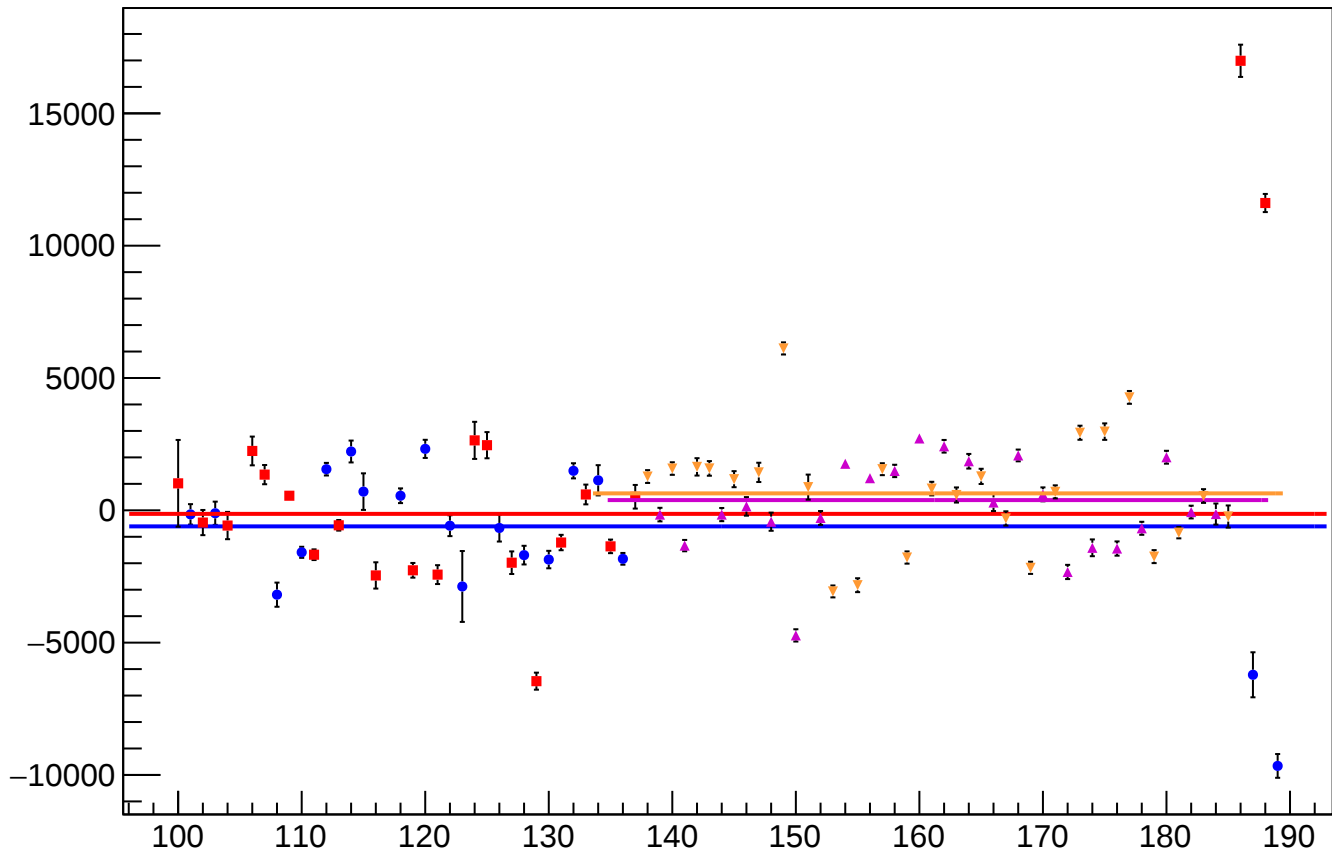
Right: 193.998 $\pm$ 0.037 χ^2/NDF : 2754185.7/39

In: 199.769 $\pm$ 0.030 χ^2/NDF : 2025368.6/41

Out: 204.234 $\pm$ 0.029 χ^2/NDF : 2762336.2/45

All: 202.039 $\pm$ 0.021 χ^2/NDF : 4799331.4/87

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: -134.384 ± 71.985 $\chi^2/\text{NDF}: 2689.1/20$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

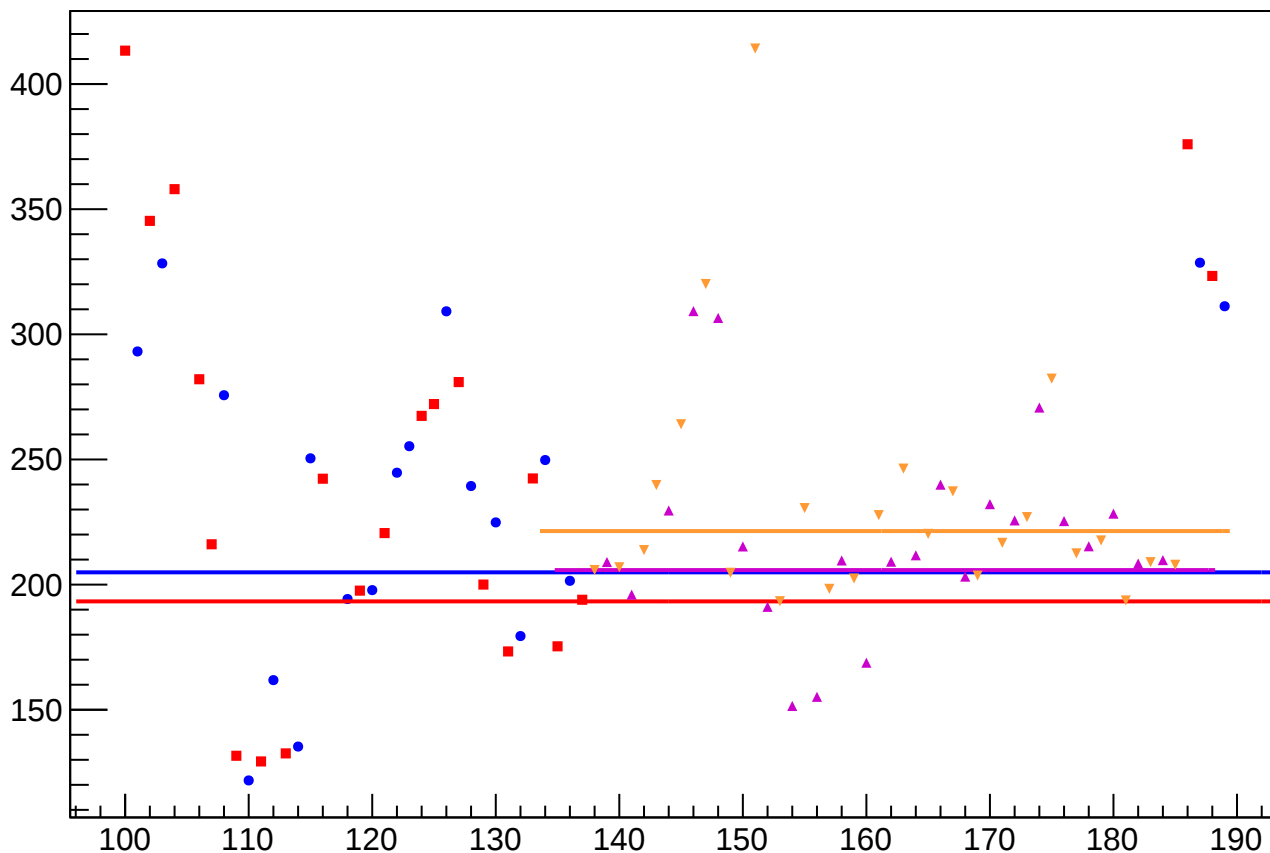
Right: -346.019 ± 53.488 $\chi^2/\text{NDF}: 3558.5/39$

In: 98.920 ± 42.989 $\chi^2/\text{NDF}: 2197.9/41$

Out: 369.722 ± 42.527 $\chi^2/\text{NDF}: 4623.6/45$

All: 235.784 ± 30.233 $\chi^2/\text{NDF}: 6841.6/87$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 204.905±/0.057 χ^2/NDF : 1076837.3/18

Left Out: 221.398±/0.037 χ^2/NDF : 777833.8/24

Right Out: 193.298±/0.051 χ^2/NDF : 1810051.9/20

Left In: 205.803±/0.036 χ^2/NDF : 994903.5/22

Left: 213.343±/0.026 χ^2/NDF : 1863169.5/47

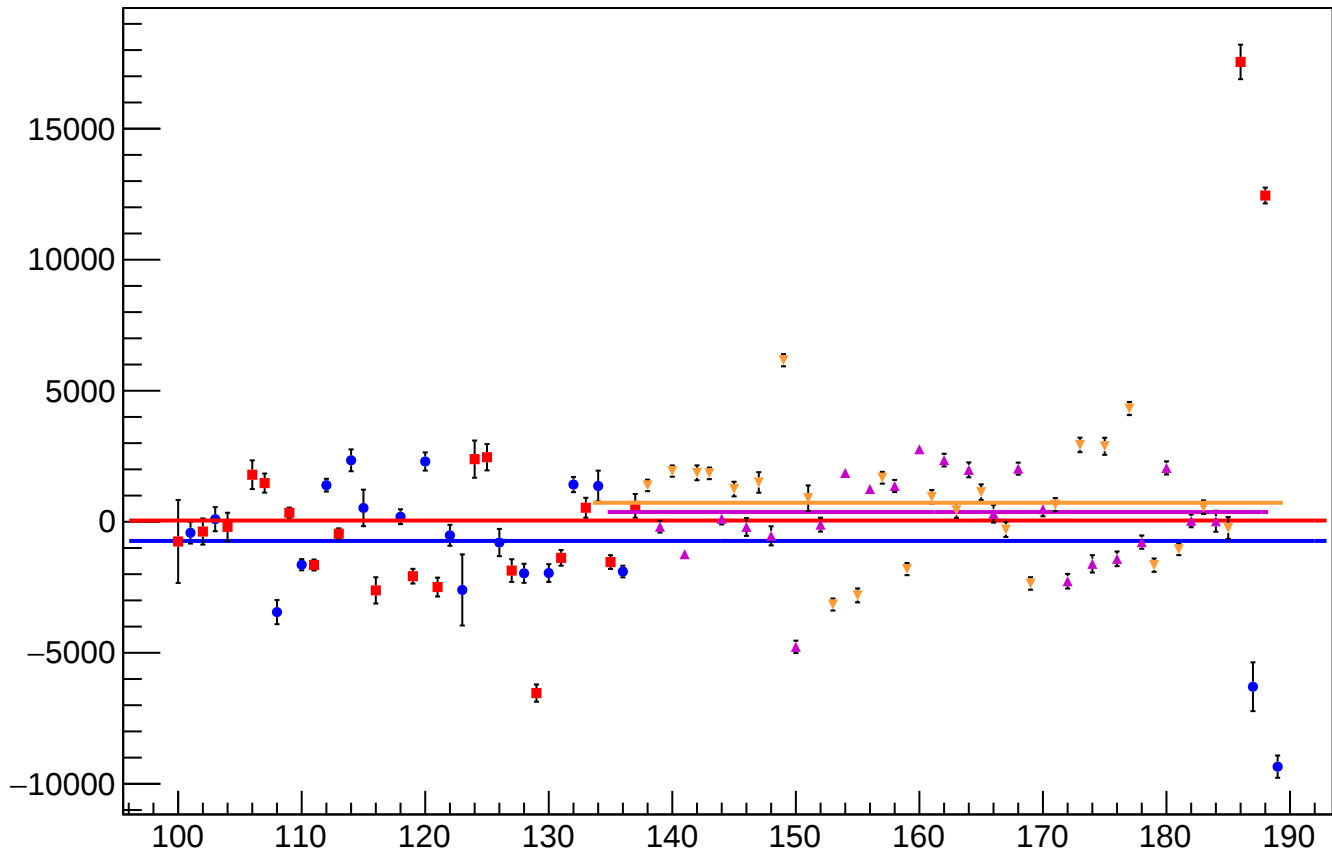
Right: 198.496±/0.038 χ^2/NDF : 2910177.7/39

In: 205.543±/0.030 χ^2/NDF : 2071920.4/41

Out: 211.591±/0.030 χ^2/NDF : 2786284.5/45

All: 208.600±/0.021 χ^2/NDF : 4878206.6/87

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -730.619+/-81.456 χ^2/NDF : 843.9/18

Left Out: 725.250+/-52.307 χ^2/NDF : 1883.1/24

Right Out: 47.343+/-72.987 χ^2/NDF : 3144.0/20

Left In: 370.408+/-50.884 χ^2/NDF : 1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

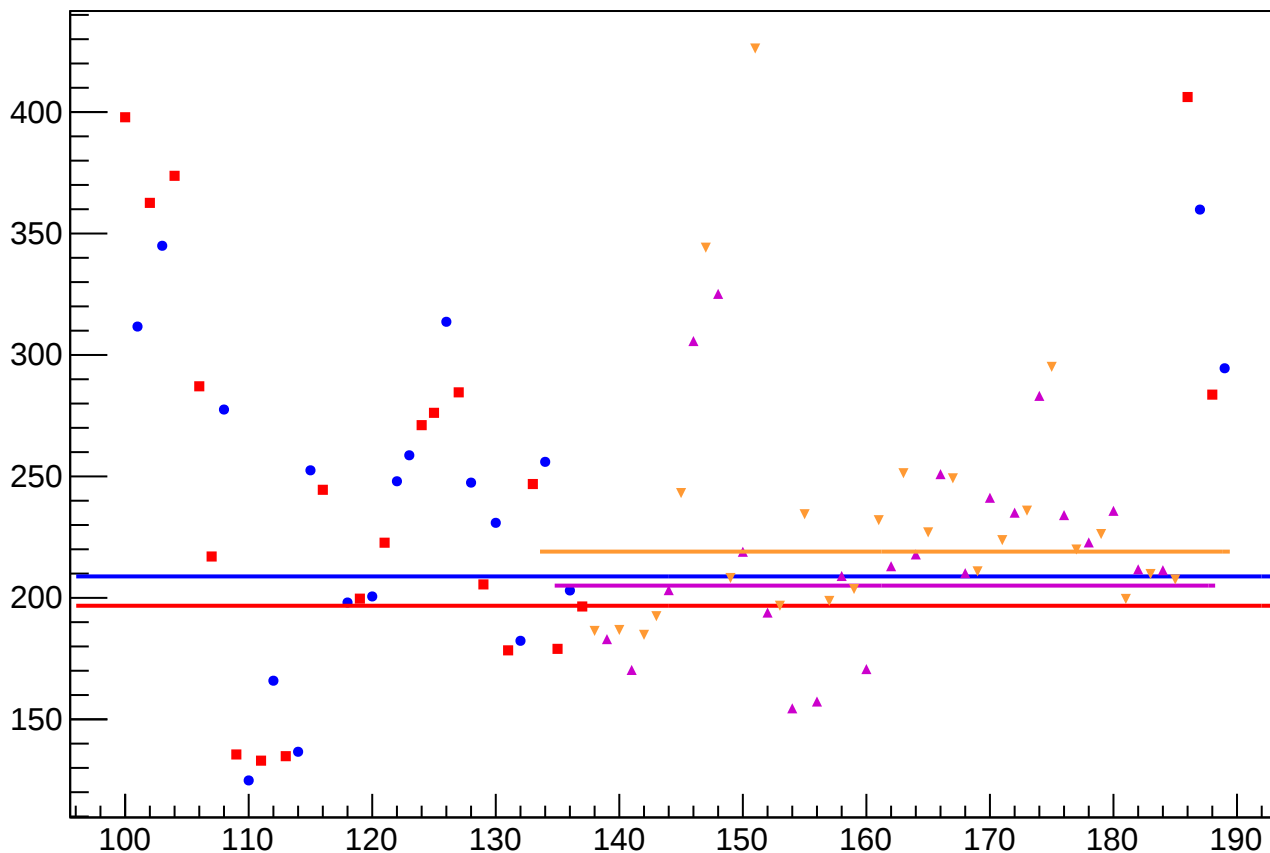
Right: -299.105+/-54.358 χ^2/NDF : 4038.5/39

In: 61.356+/-43.156 χ^2/NDF : 2198.4/41

Out: 495.219+/-42.516 χ^2/NDF : 5084.2/45

All: 281.527+/-30.287 χ^2/NDF : 7333.9/87

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: 196.757 ± 0.052 $\chi^2/\text{NDF}: 1702855.4/20$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

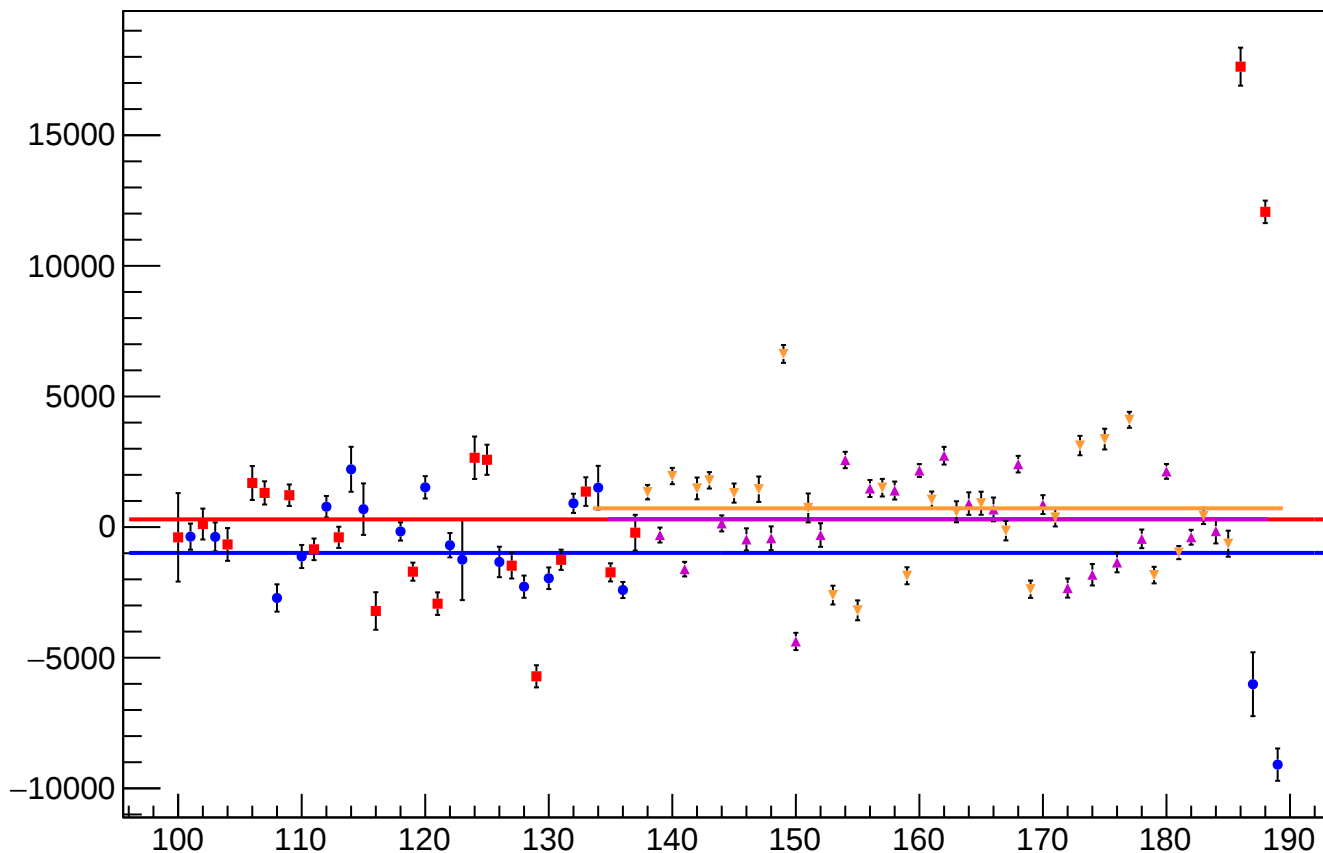
Right: 202.135 ± 0.038 $\chi^2/\text{NDF}: 2811605.6/39$

In: 206.110 ± 0.031 $\chi^2/\text{NDF}: 2231672.6/41$

Out: 211.485 ± 0.030 $\chi^2/\text{NDF}: 2801672.3/45$

All: 208.837 ± 0.021 $\chi^2/\text{NDF}: 5049088.3/87$

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: 296.273+/-106.198 χ^2/NDF : 1747.3/20

Left In: 304.161+/-70.958 χ^2/NDF :643.5/22

Left: 515.435+/-49.688 χ^2/NDF : 1679.4/47

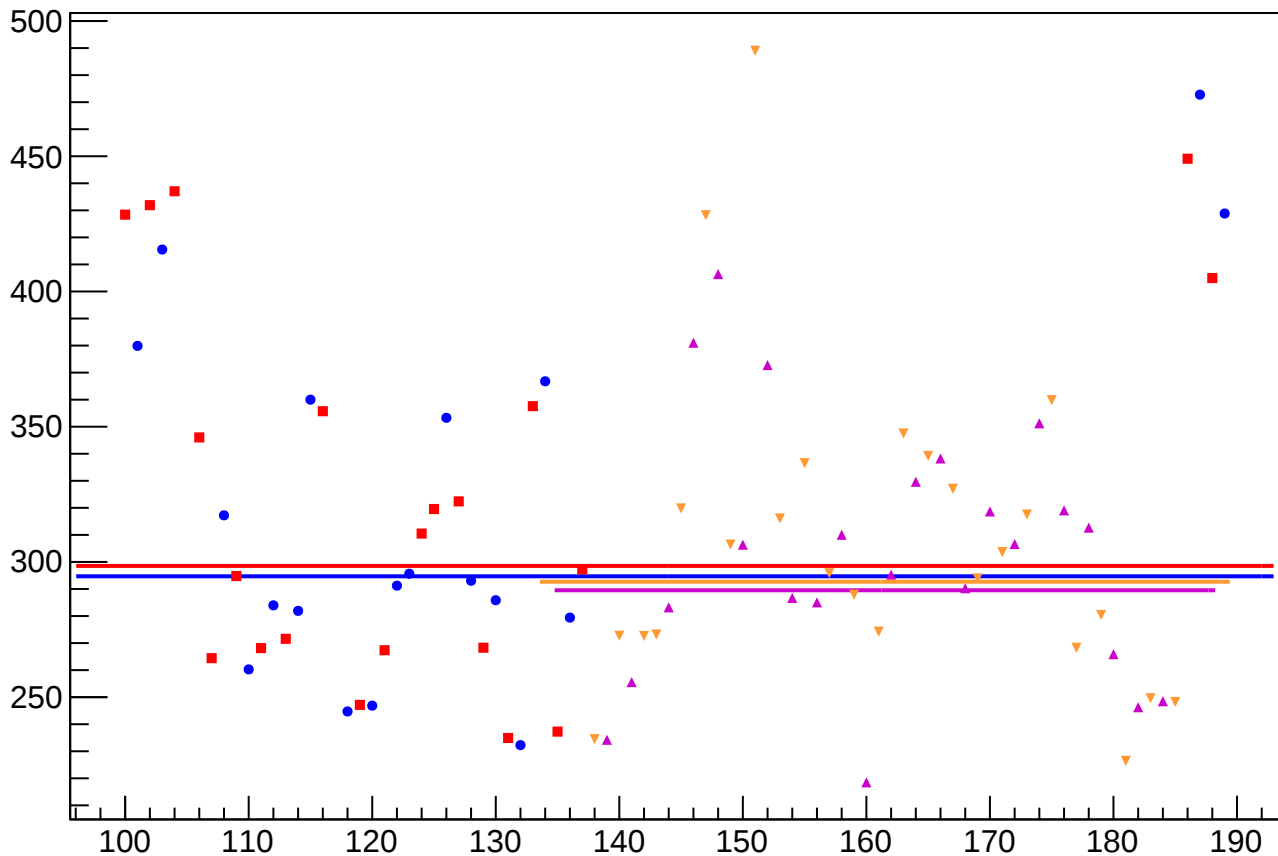
Right: -312.634+/-77.006 χ^2/NDF : 2166.2/39

In: -66.703+/-59.913 χ^2/NDF :1088.2/41

Out: 591.778+/-58.213 χ^2/NDF :2776.9/45

All: 272.017+/-41.751 χ^2/NDF : 3927.2/87

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 294.695 ± 0.079 $\chi^2/\text{NDF}: 480896.6/18$

Left Out: 292.686 ± 0.049 $\chi^2/\text{NDF}: 925193.6/24$

Right Out: 298.532 ± 0.075 $\chi^2/\text{NDF}: 685714.5/20$

Left In: 289.522 ± 0.050 $\chi^2/\text{NDF}: 777901.0/22$

Left: 291.134 ± 0.035 $\chi^2/\text{NDF}: 1705121.5/47$

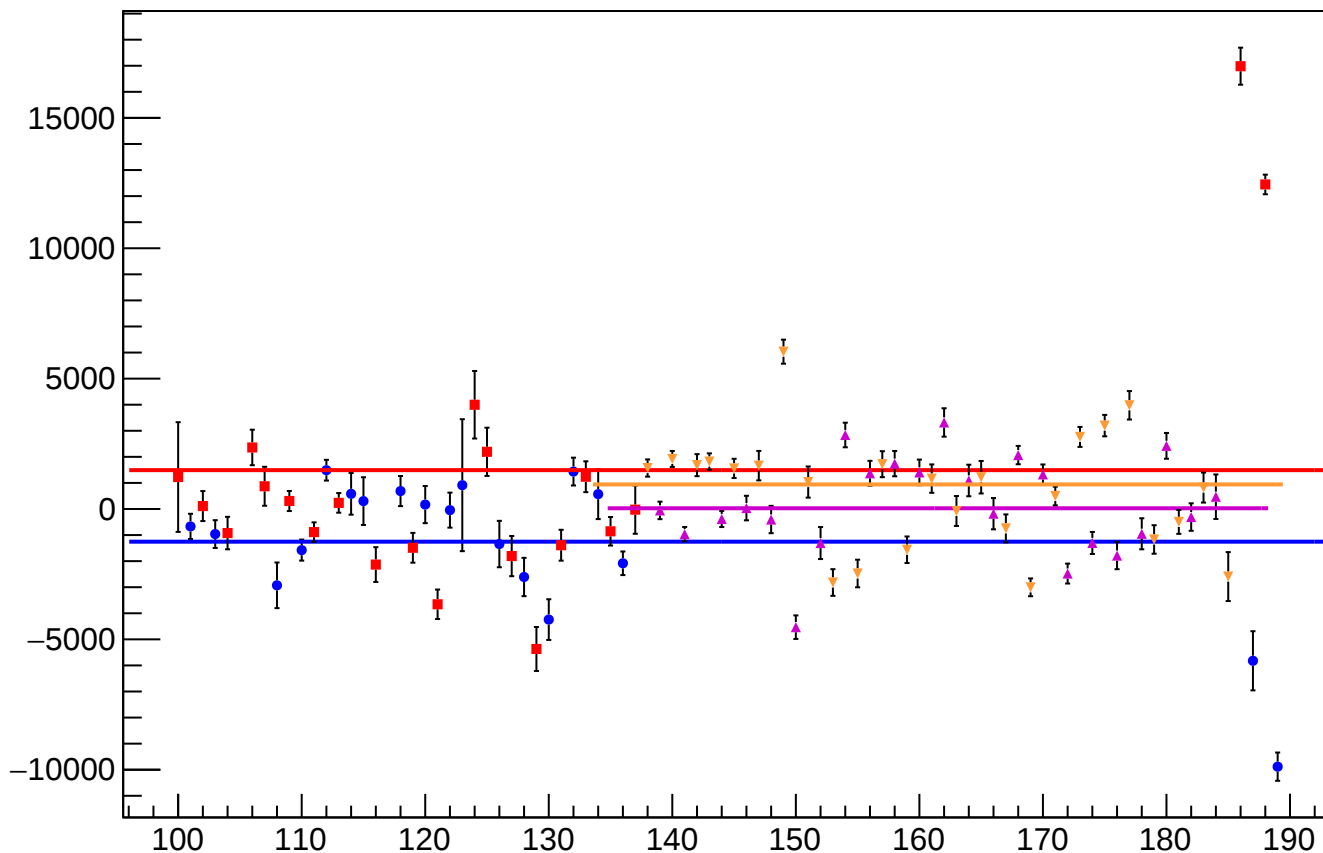
Right: 296.713 ± 0.054 $\chi^2/\text{NDF}: 1167849.2/39$

In: 291.007 ± 0.042 $\chi^2/\text{NDF}: 1261849.7/41$

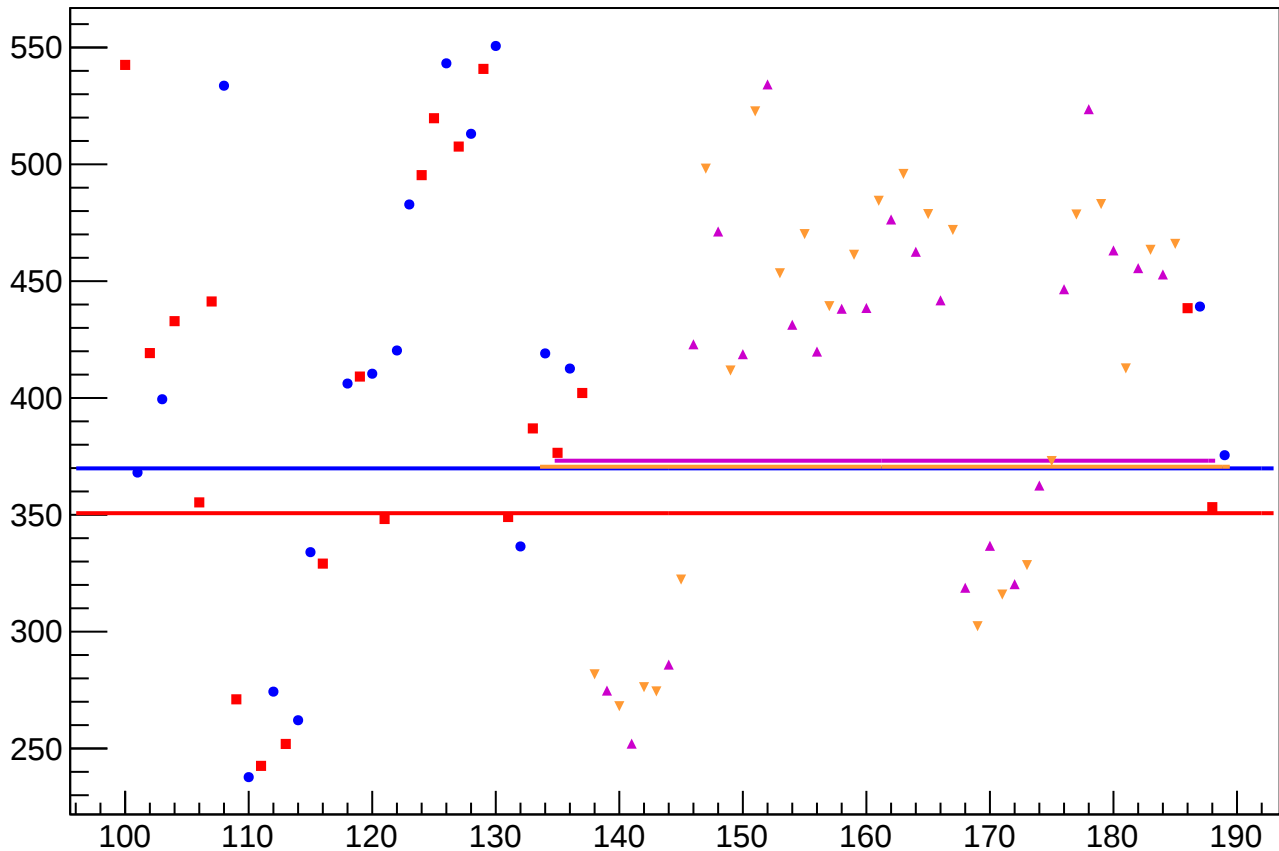
Out: 294.442 ± 0.041 $\chi^2/\text{NDF}: 1615148.1/45$

All: 292.774 ± 0.030 $\chi^2/\text{NDF}: 2880380.9/87$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 369.877 ± 0.100 $\chi^2/\text{NDF}: 773318.7/18$

Left Out: 370.580 ± 0.063 $\chi^2/\text{NDF}: 1878118.9/24$

Right Out: 350.701 ± 0.089 $\chi^2/\text{NDF}: 848283.9/20$

Left In: 373.161 ± 0.065 $\chi^2/\text{NDF}: 1636244.2/22$

Left: 371.824 ± 0.045 $\chi^2/\text{NDF}: 3515172.3/47$

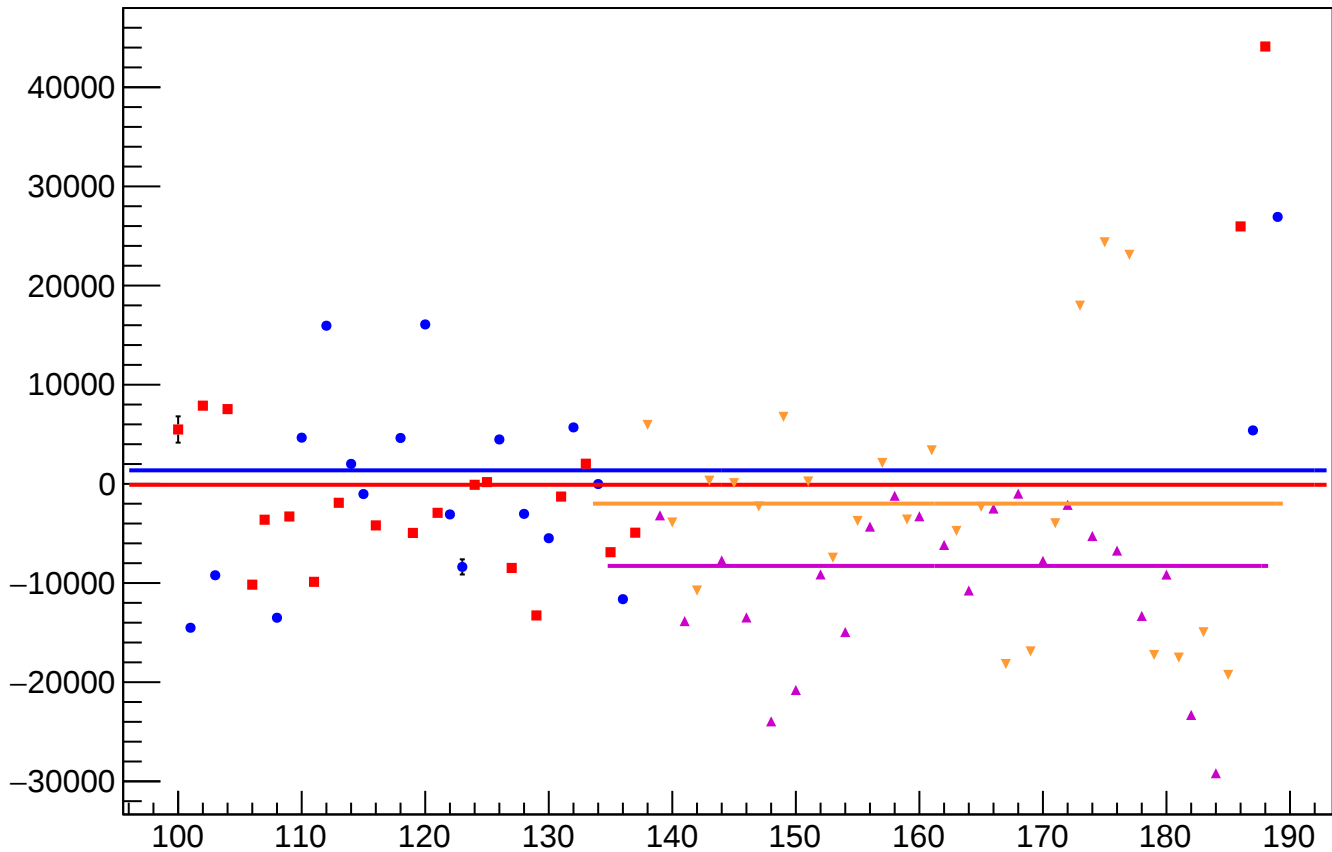
Right: 359.172 ± 0.066 $\chi^2/\text{NDF}: 1642174.1/39$

In: 372.178 ± 0.055 $\chi^2/\text{NDF}: 2410319.8/41$

Out: 363.928 ± 0.051 $\chi^2/\text{NDF}: 2759700.2/45$

All: 367.800 ± 0.037 $\chi^2/\text{NDF}: 5182112.1/87$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 1363.967+/-53.358 χ^2/NDF : 40765.8/18

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: -92.458+/-49.674 χ^2/NDF : 79880.3/20

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

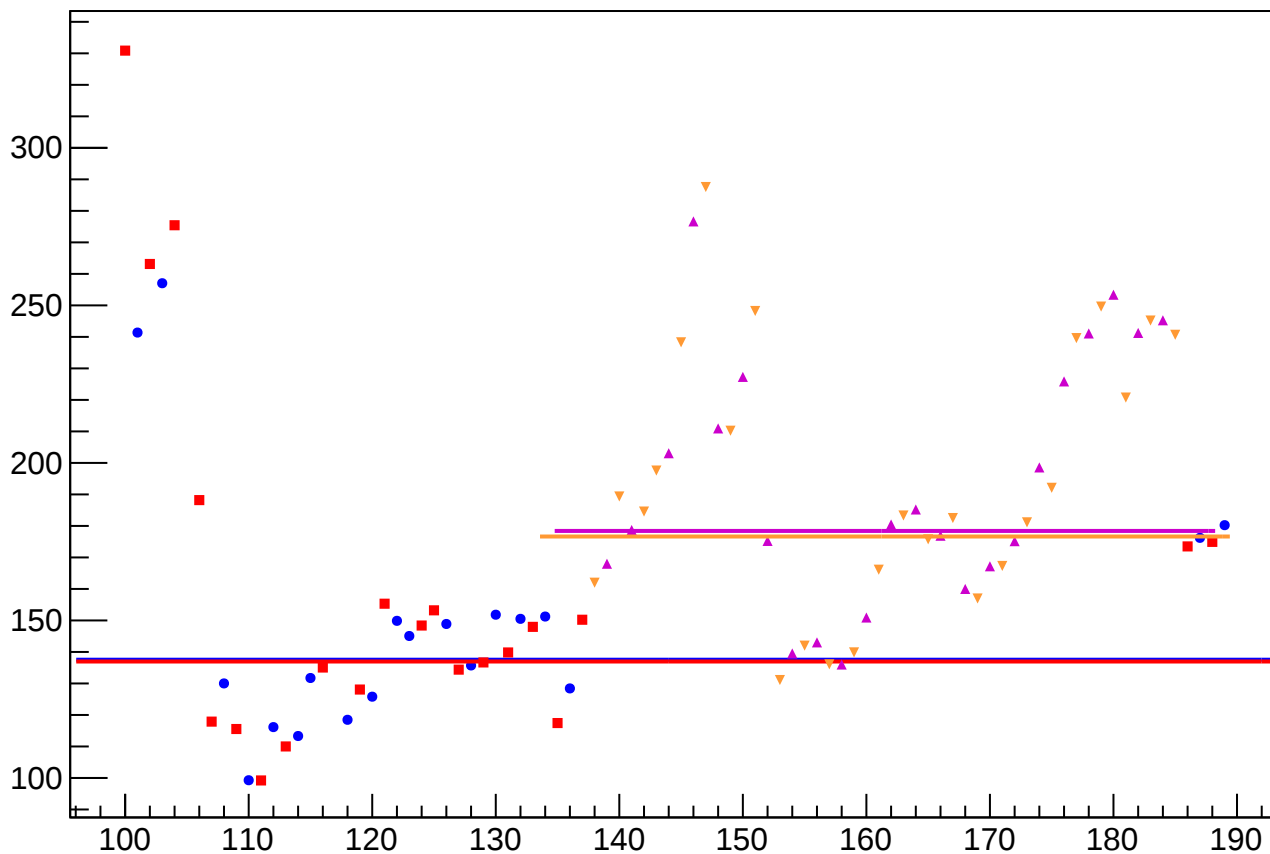
Right: 583.751+/-36.358 χ^2/NDF : 121045.3/39

In: -4340.735+/-34.084 χ^2/NDF : 82946.2/41

Out: -1190.662+/-32.261 χ^2/NDF : 144492.2/45

All: -2679.197+/-23.430 χ^2/NDF : 231943.7/8

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: 136.968+/-0.035 χ^2/NDF : 959093.6/20

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

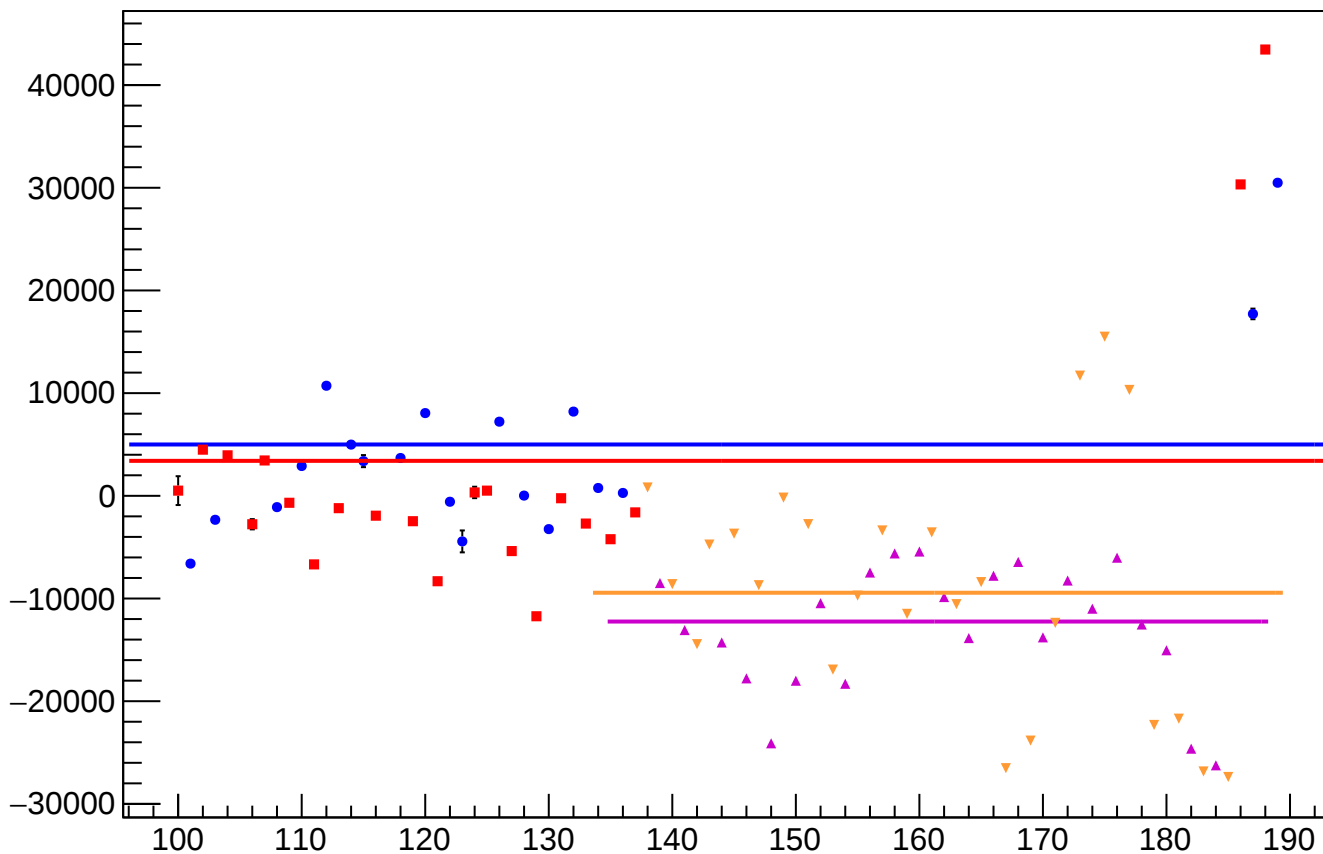
Right: 137.233+/-0.026 χ^2/NDF : 1688499.9/39

In: 161.734+/-0.024 χ^2/NDF :2717753.8/41

Out: 159.907+/-0.023 χ^2/NDF :3247770.3/45

All: 160.770+/-0.017 χ^2/NDF : 5968556.3/87

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: 3406.433+/-61.030 χ^2/NDF : 65720.1/20

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

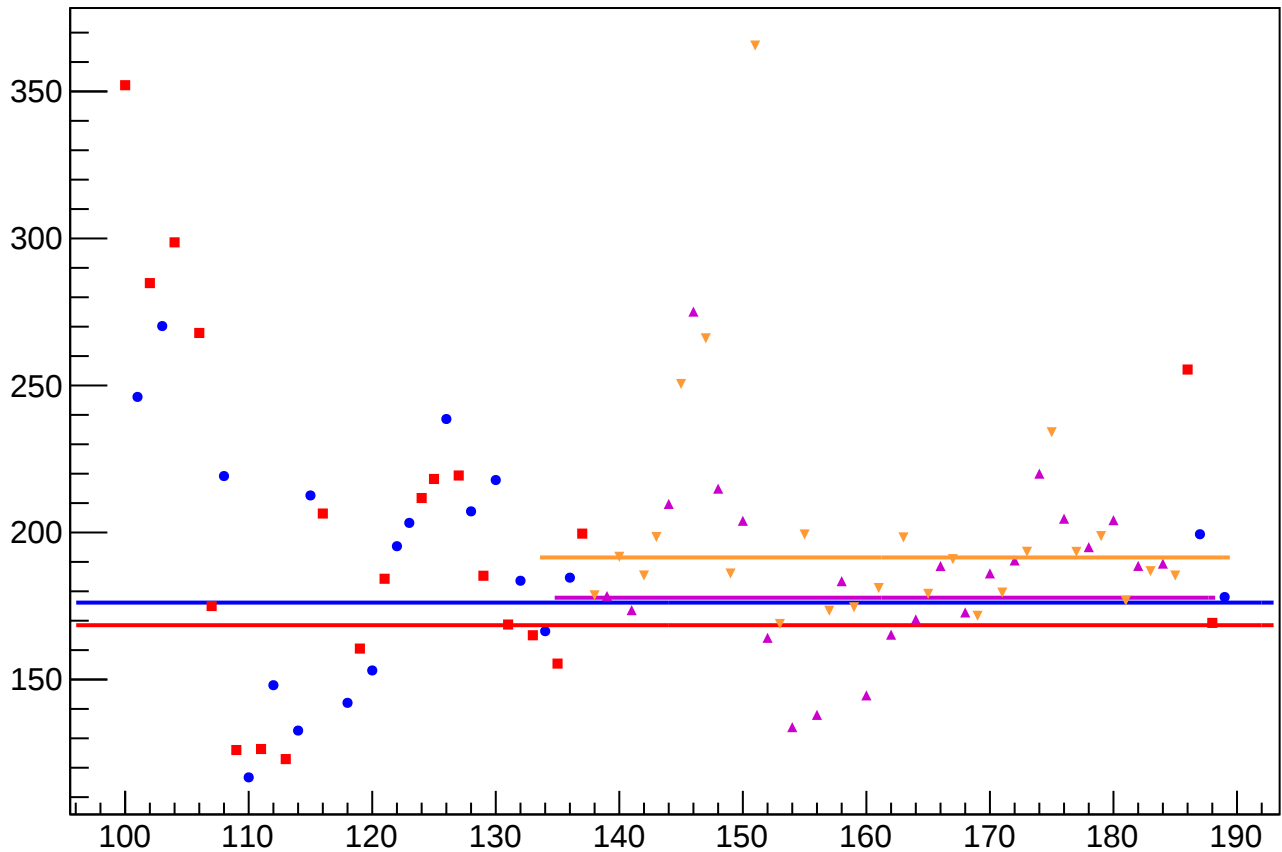
Right: 4120.054+/-45.355 χ^2/NDF : 81427.5/39

In: -7139.638+/-36.873 χ^2/NDF : 77577.9/41

Out: -4844.462+/-36.496 χ^2/NDF : 156392.1/45

All: -5980.240+/-25.939 χ^2/NDF : 235927.2/8

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: 168.471+/-0.043 χ^2/NDF : 1016078.3/20

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

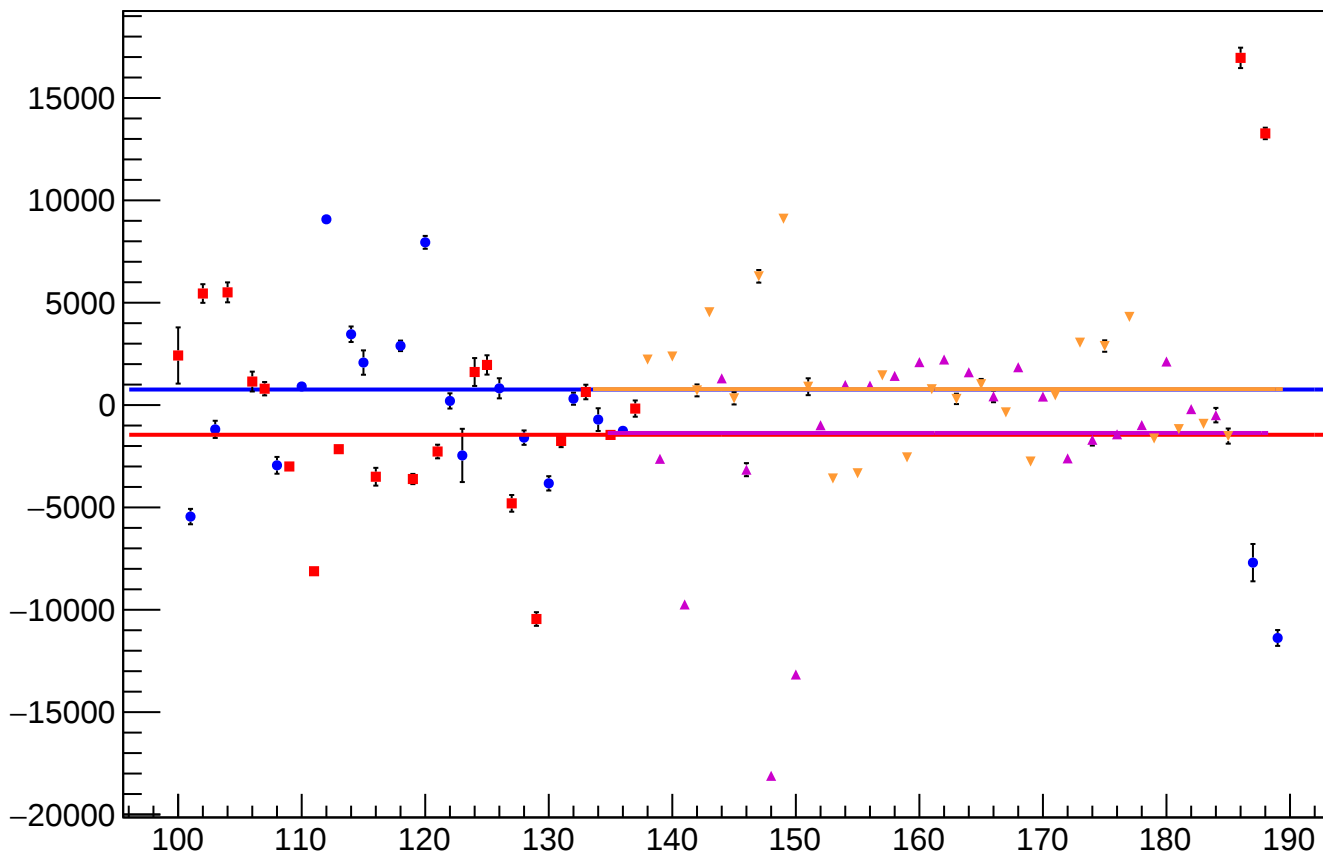
Right: 171.914+/-0.032 χ^2/NDF : 1722422.1/39

In: 177.330+/-0.026 χ^2/NDF : 1555469.9/41

Out: 183.269+/-0.026 χ^2/NDF : 1926367.0/45

All: 180.330+/-0.018 χ^2/NDF : 3508049.3/87

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: -1451.389+/-67.310 χ^2/NDF : 6941.5/20

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

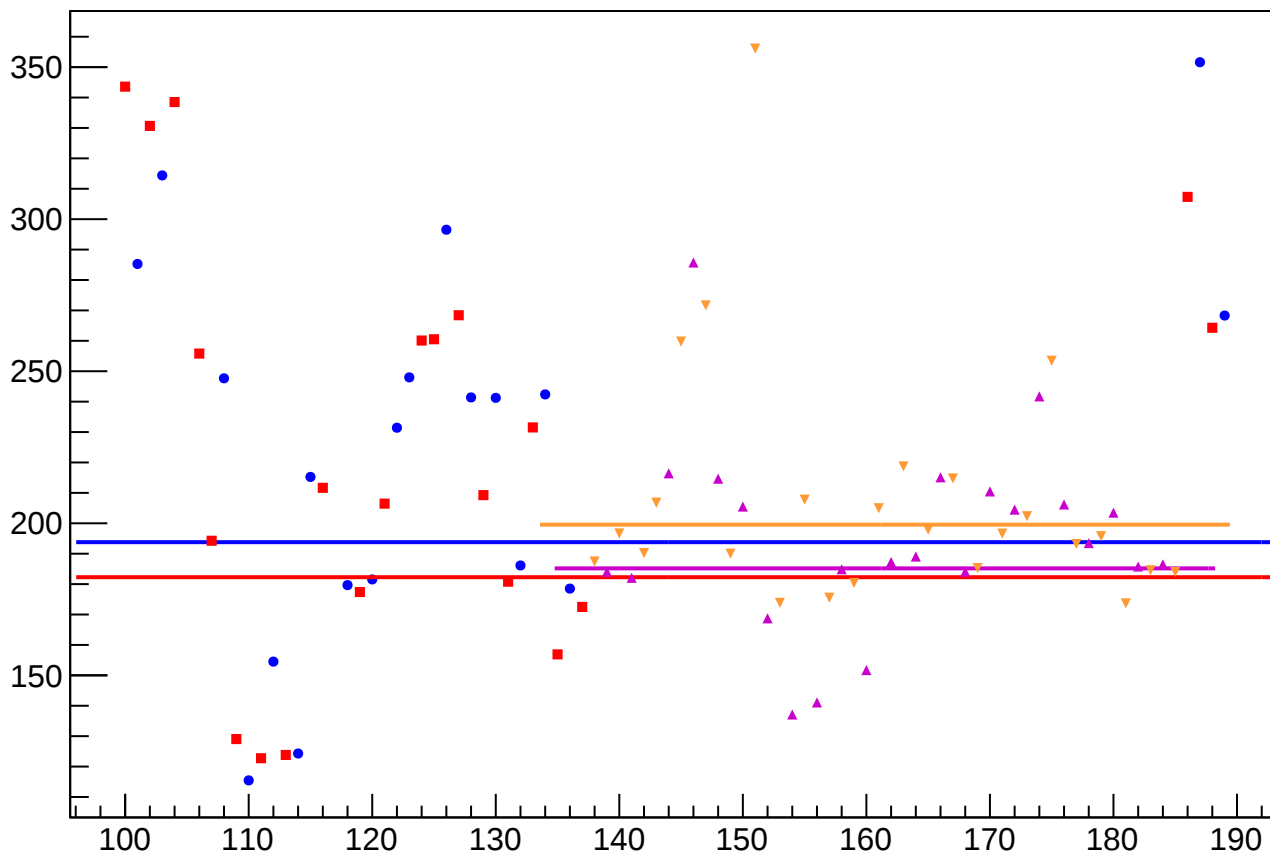
Right: -473.424+/-50.263 χ^2/NDF : 11184.2/39

In: -792.784+/-39.172 χ^2/NDF : 15975.2/41

Out: 39.073+/-38.786 χ^2/NDF : 11936.3/45

All: -372.740+/-27.561 χ^2/NDF : 28139.2/87

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.788 $\pm$ 0.053 χ^2 /NDF: 1116703.6/18

Left Out: 199.547 $\pm$ 0.034 χ^2 /NDF: 729356.3/24

Right Out: 182.270 $\pm$ 0.048 χ^2 /NDF: 1610863.2/20

Left In: 185.171 $\pm$ 0.032 χ^2 /NDF: 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2 /NDF: 1707122.0/47

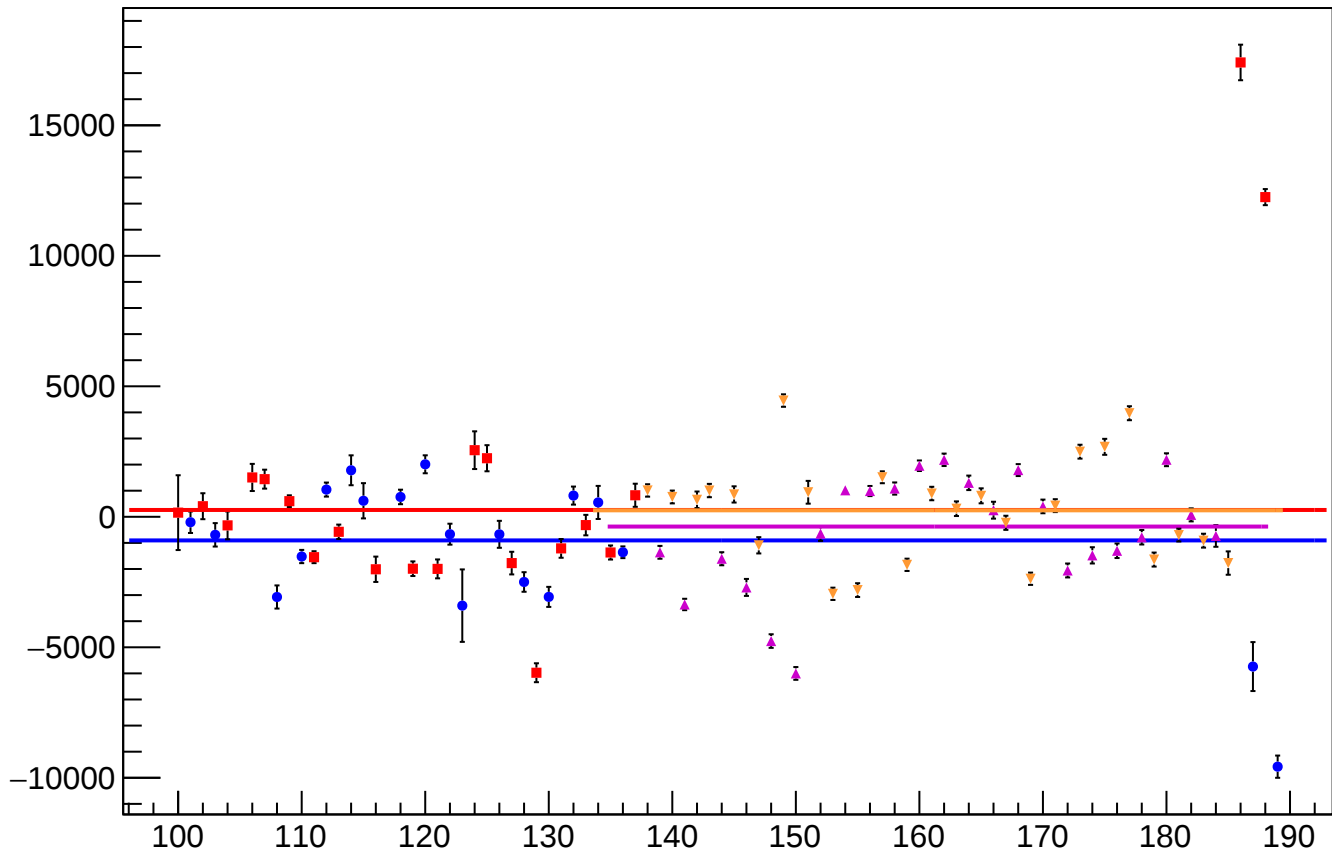
Right: 187.366 $\pm$ 0.036 χ^2 /NDF: 2753472.7/39

In: 187.486 $\pm$ 0.028 χ^2 /NDF: 2018474.8/41

Out: 193.810 $\pm$ 0.027 χ^2 /NDF: 2428228.5/45

All: 190.679 $\pm$ 0.019 χ^2 /NDF: 4473026.4/87

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -904.794 $\pm$ 86.550 χ^2/NDF : 748.2/18

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: 261.608 $\pm$ 78.921 χ^2/NDF : 2762.3/20

Left In: -374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

Left: -72.006 $\pm$ 37.325 χ^2/NDF : 3225.5/47

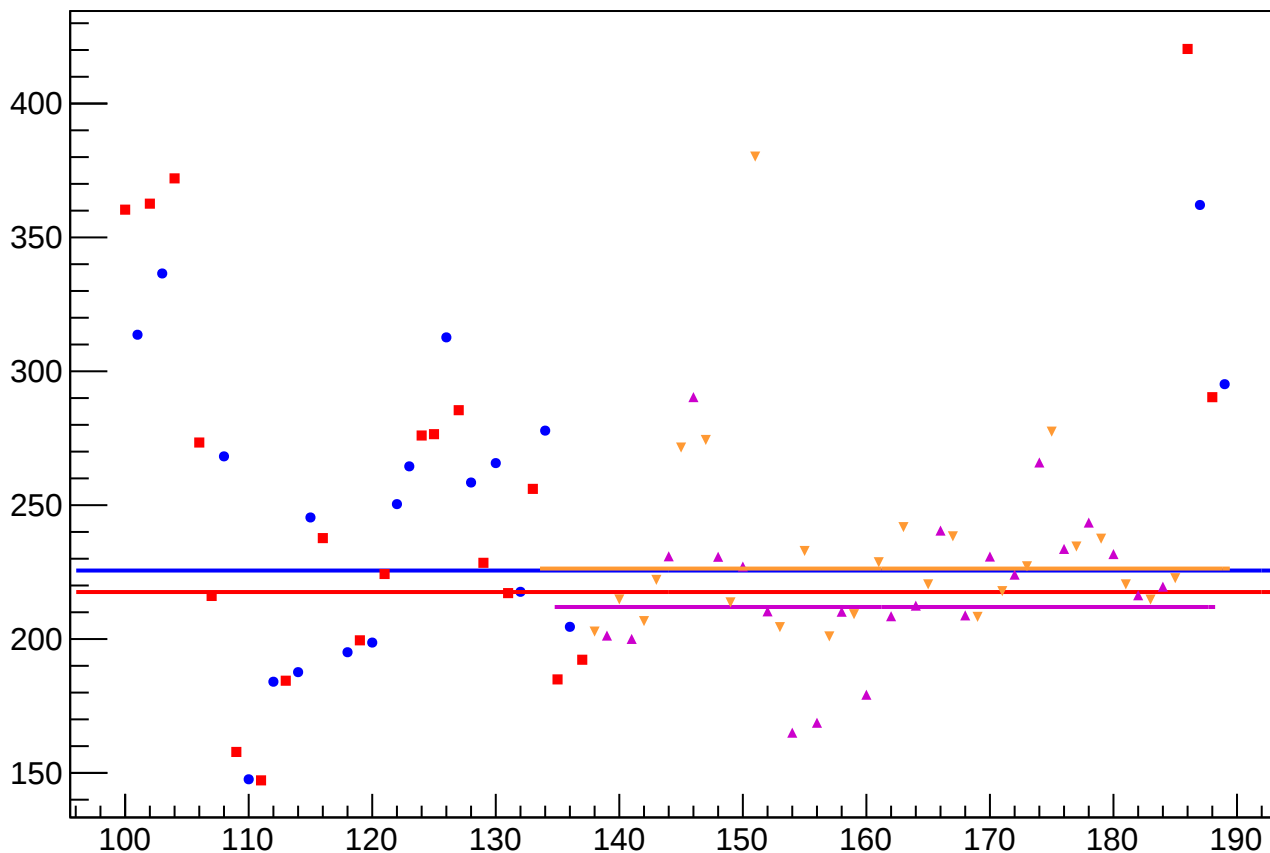
Right: -267.928 $\pm$ 58.317 χ^2/NDF : 3609.7/39

In: -515.066 $\pm$ 44.605 χ^2/NDF :2576.8/41

Out: 252.183 $\pm$ 44.315 χ^2/NDF :4117.5/45

All: -128.942 $\pm$ 31.437 χ^2/NDF : 6843.2/87

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: 217.557 ± 0.056 $\chi^2/\text{NDF}: 1187469.1/20$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

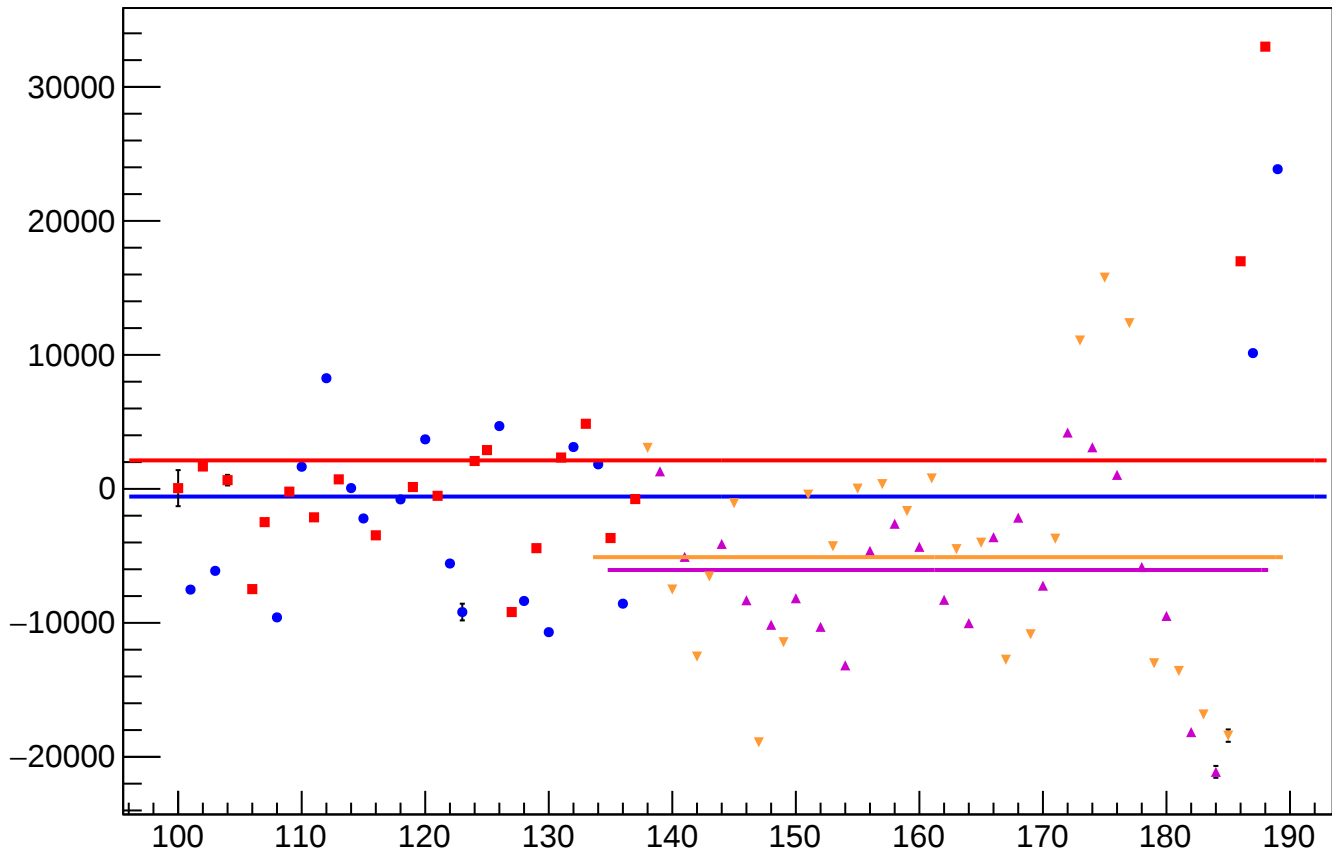
Right: 221.202 ± 0.041 $\chi^2/\text{NDF}: 1942710.0/39$

In: 215.586 ± 0.032 $\chi^2/\text{NDF}: 1366537.0/41$

Out: 223.558 ± 0.031 $\chi^2/\text{NDF}: 1725399.1/45$

All: 219.598 ± 0.022 $\chi^2/\text{NDF}: 3124088.7/87$

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: 2125.844 $\pm$ 42.298 χ^2/NDF : 59450.8/20

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

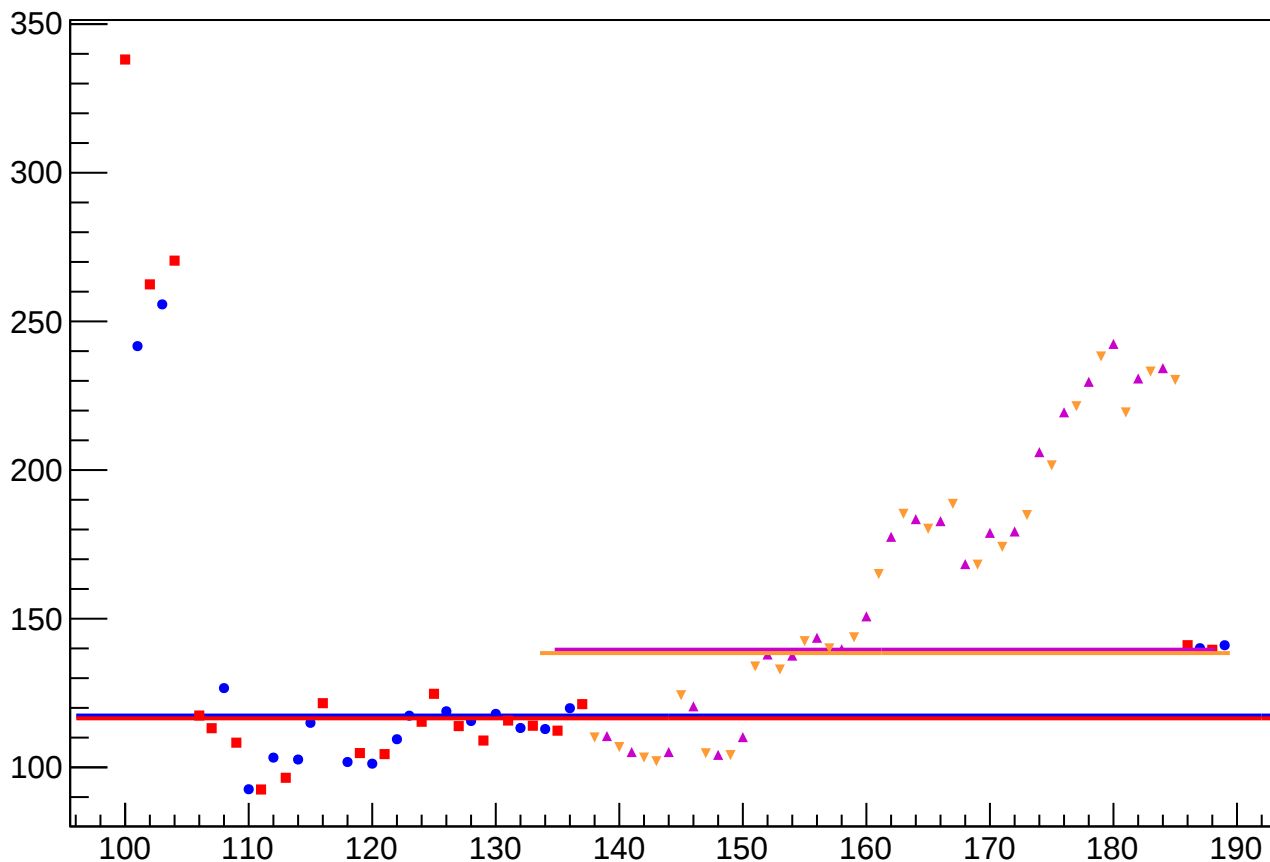
Right: 883.953 $\pm$ 31.079 χ^2/NDF : 93964.8/39

In: -4034.078 $\pm$ 27.812 χ^2/NDF : 59266.8/41

Out: -2291.048 $\pm$ 26.359 χ^2/NDF : 131673.0/45

All: -3115.842 $\pm$ 19.132 χ^2/NDF : 193009.0/8

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: 116.486 $\pm$ 0.030 χ^2 /NDF: 876193.5/20

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

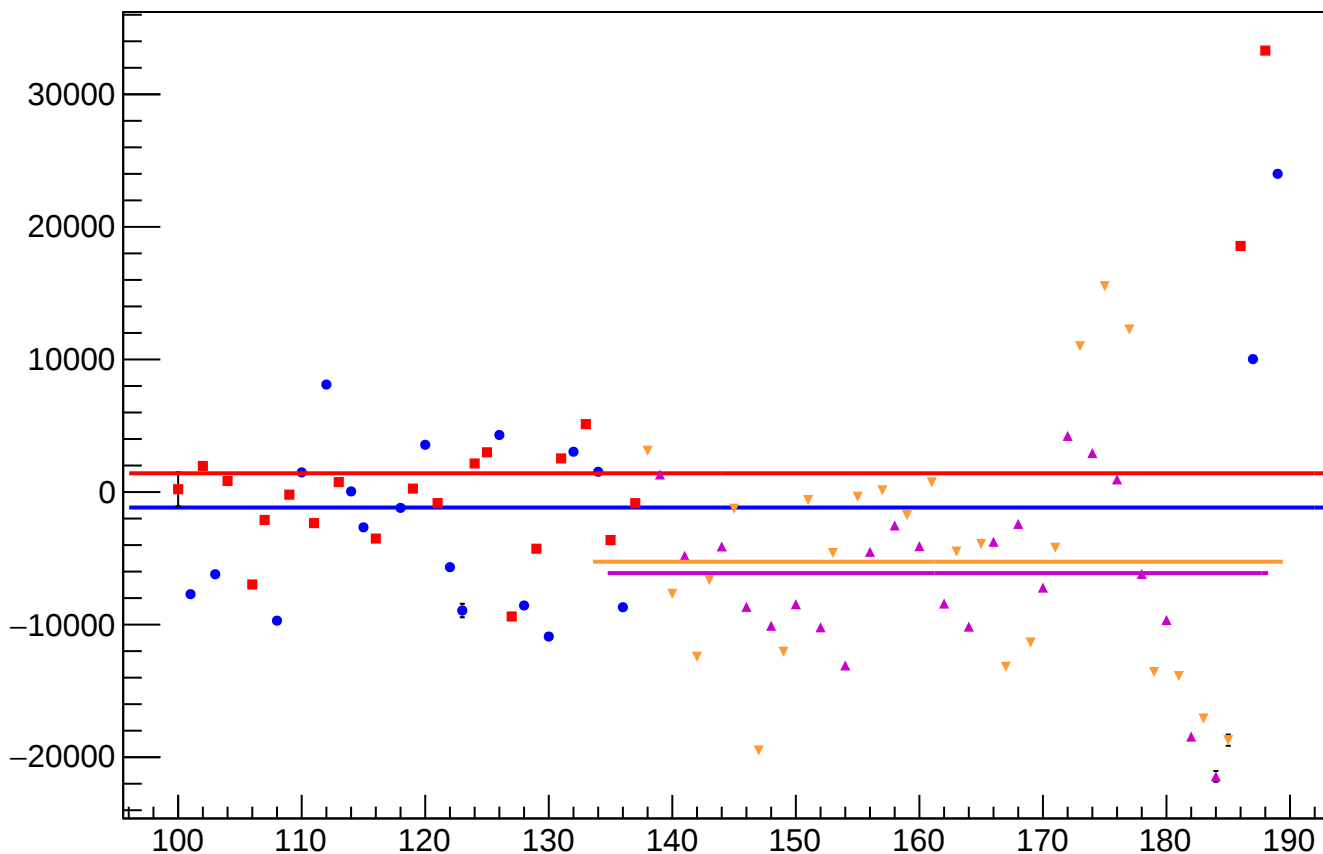
Right: 116.916 $\pm$ 0.022 χ^2 /NDF: 1657208.0/39

In: 131.413 $\pm$ 0.020 χ^2 /NDF: 3489586.5/41

Out: 129.912 $\pm$ 0.019 χ^2 /NDF: 3755054.9/45

All: 130.622 $\pm$ 0.014 χ^2 /NDF: 7247713.3/87

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -1168.164 $\pm$ 39.097 χ^2/NDF : 38380.5/18

Left Out: -5255.652 $\pm$ 30.622 χ^2/NDF : 64324.6/24

Right Out: 1415.244 $\pm$ 36.320 χ^2/NDF : 67543.6/20

Left In: -6114.901 $\pm$ 32.126 χ^2/NDF : 21260.9/22

Left: -5664.697 $\pm$ 22.166 χ^2/NDF : 85960.3/47

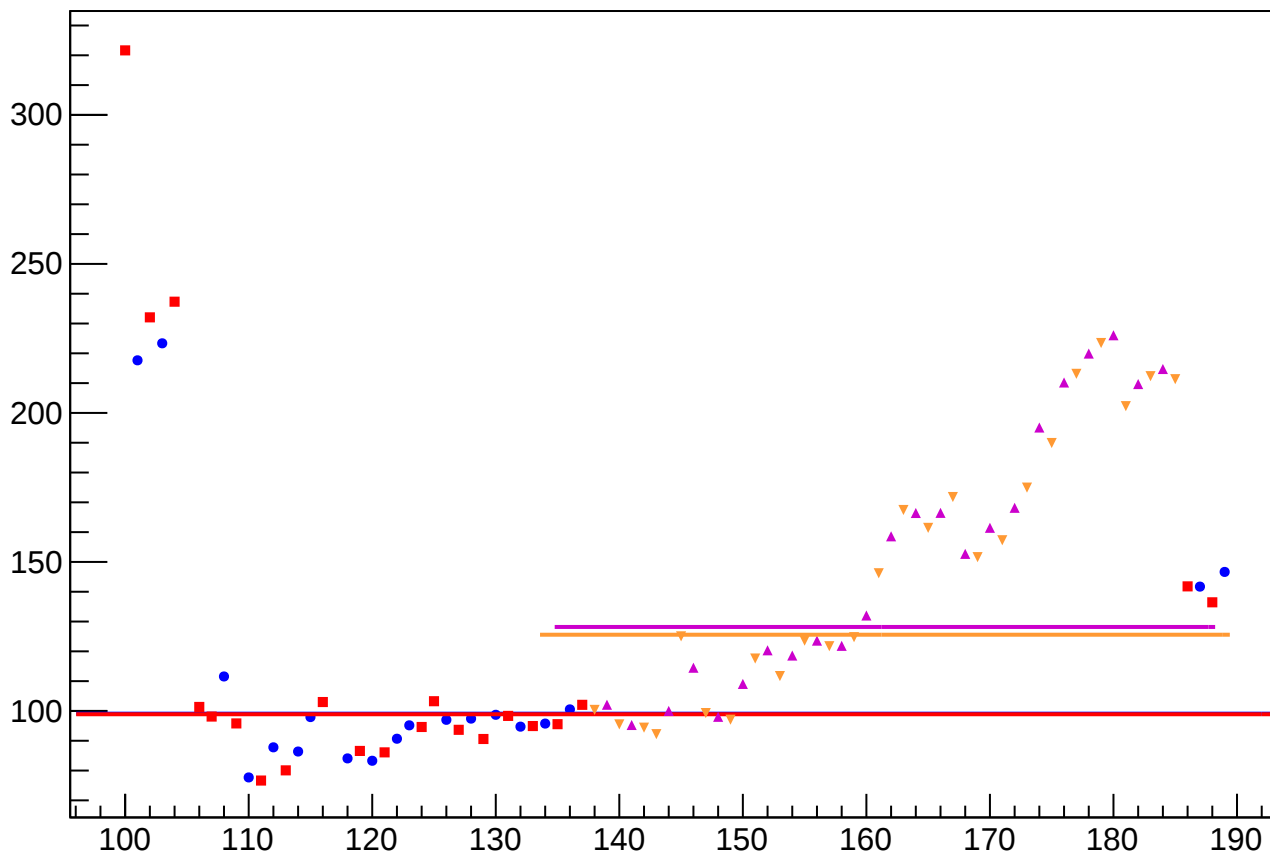
Right: 218.515 $\pm$ 26.610 χ^2/NDF : 108267.8/39

In: -4121.119 $\pm$ 24.821 χ^2/NDF : 69197.8/41

Out: -2483.979 $\pm$ 23.412 χ^2/NDF : 151586.1/45

All: -3254.746 $\pm$ 17.031 χ^2/NDF : 223086.1/8

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 99.084 $\pm$ 0.028 χ^2 /NDF: 950008.4/18

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF: 2595752.6/24

Right Out: 98.892 $\pm$ 0.026 χ^2 /NDF: 1082106.3/20

Left In: 128.184 $\pm$ 0.023 χ^2 /NDF: 2332977.5/22

Left: 126.818 $\pm$ 0.016 χ^2 /NDF: 4935627.6/47

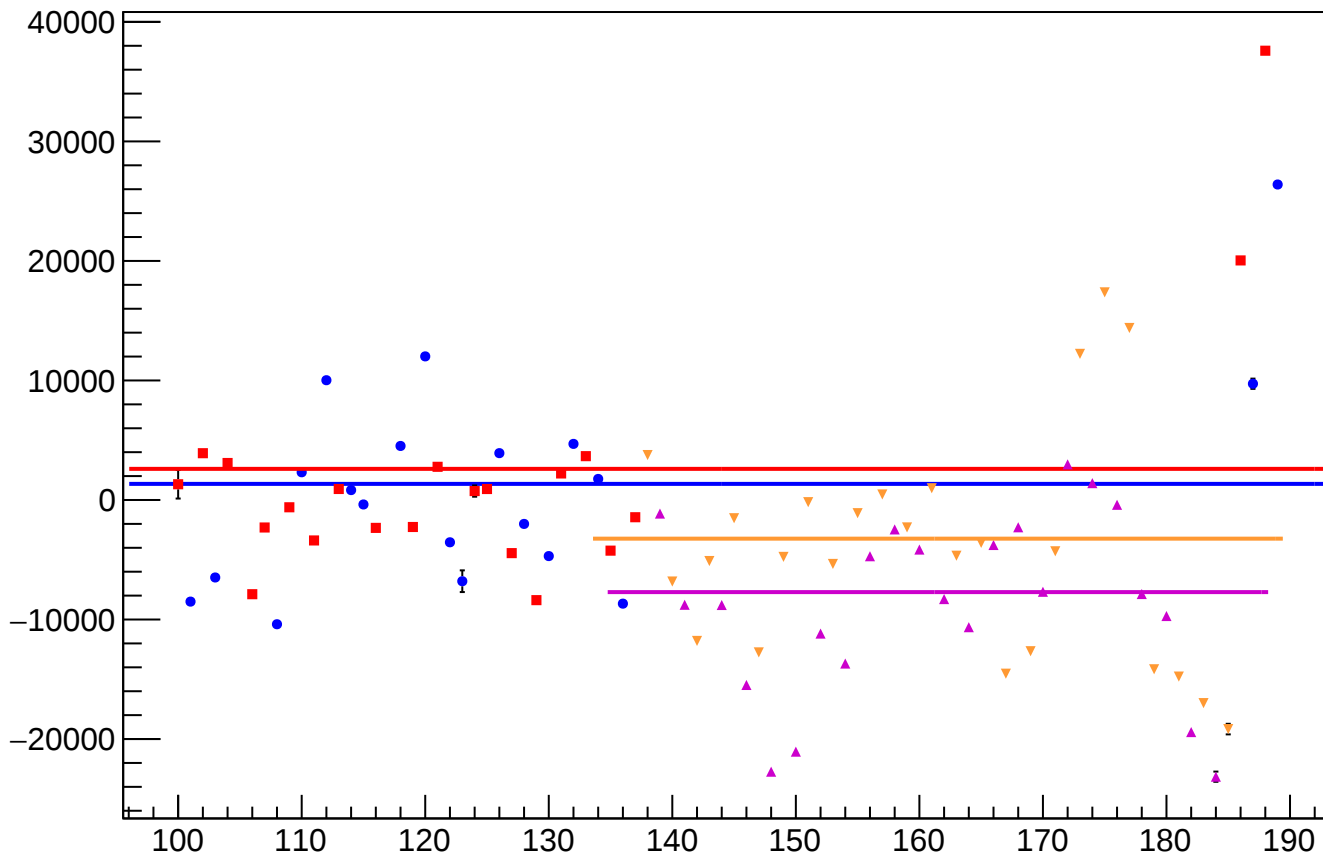
Right: 98.981 $\pm$ 0.019 χ^2 /NDF: 2032140.7/39

In: 116.455 $\pm$ 0.018 χ^2 /NDF: 3944389.6/41

Out: 114.490 $\pm$ 0.017 χ^2 /NDF: 4308924.0/45

All: 115.415 $\pm$ 0.012 χ^2 /NDF: 8259948.4/87

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: 2604.159 $\pm$ 49.197 χ^2/NDF : 55671.5/20

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

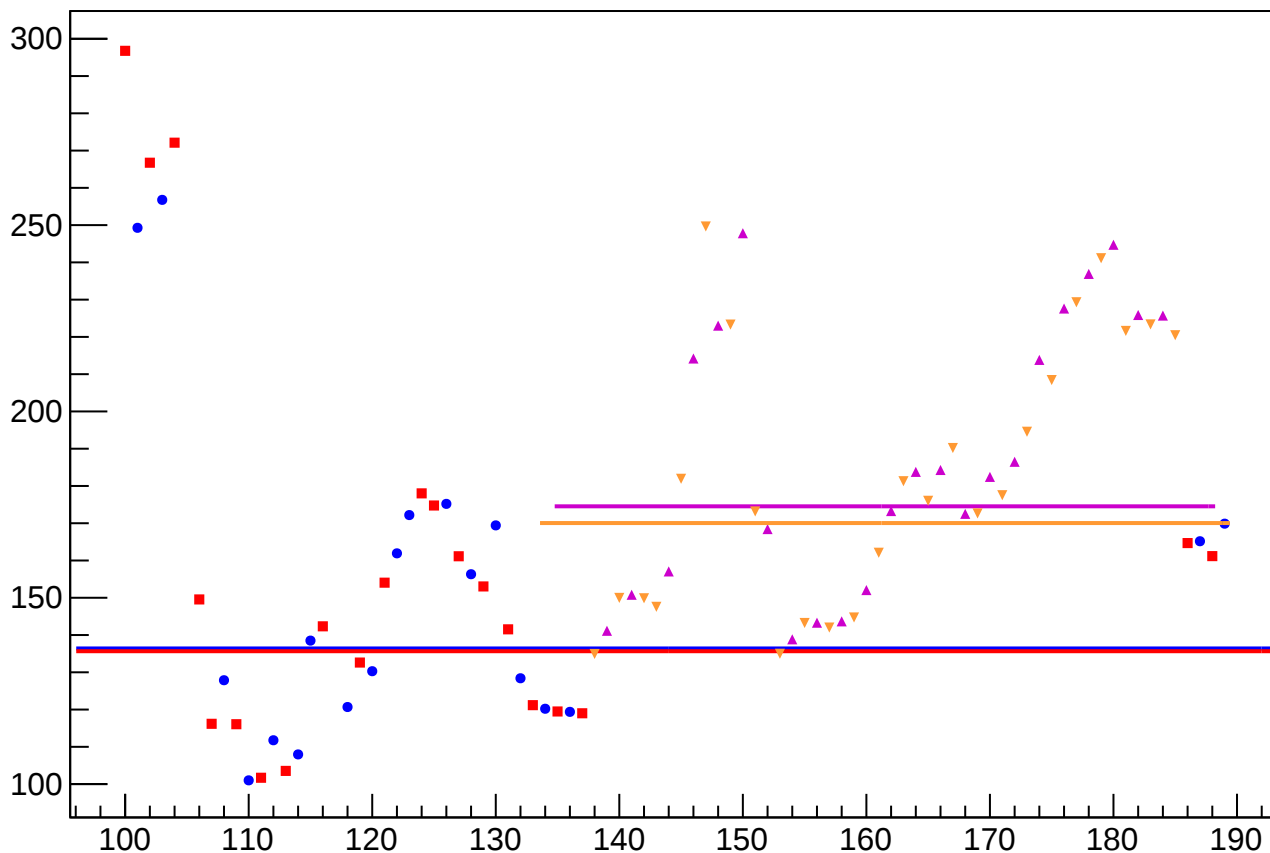
Right: 2022.737 $\pm$ 36.062 χ^2/NDF : 83704.3/39

In: -4115.192 $\pm$ 33.392 χ^2/NDF : 66597.0/41

Out: -870.550 $\pm$ 31.306 χ^2/NDF : 100794.0/45

All: -2388.387 $\pm$ 22.838 χ^2/NDF : 172416.1/8

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 136.396 $\pm$ 0.037 χ^2 /NDF: 836158.8/18

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 135.656 $\pm$ 0.035 χ^2 /NDF: 942033.9/20

Left In: 174.539 $\pm$ 0.030 χ^2 /NDF:1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2 /NDF: 2462472.2/47

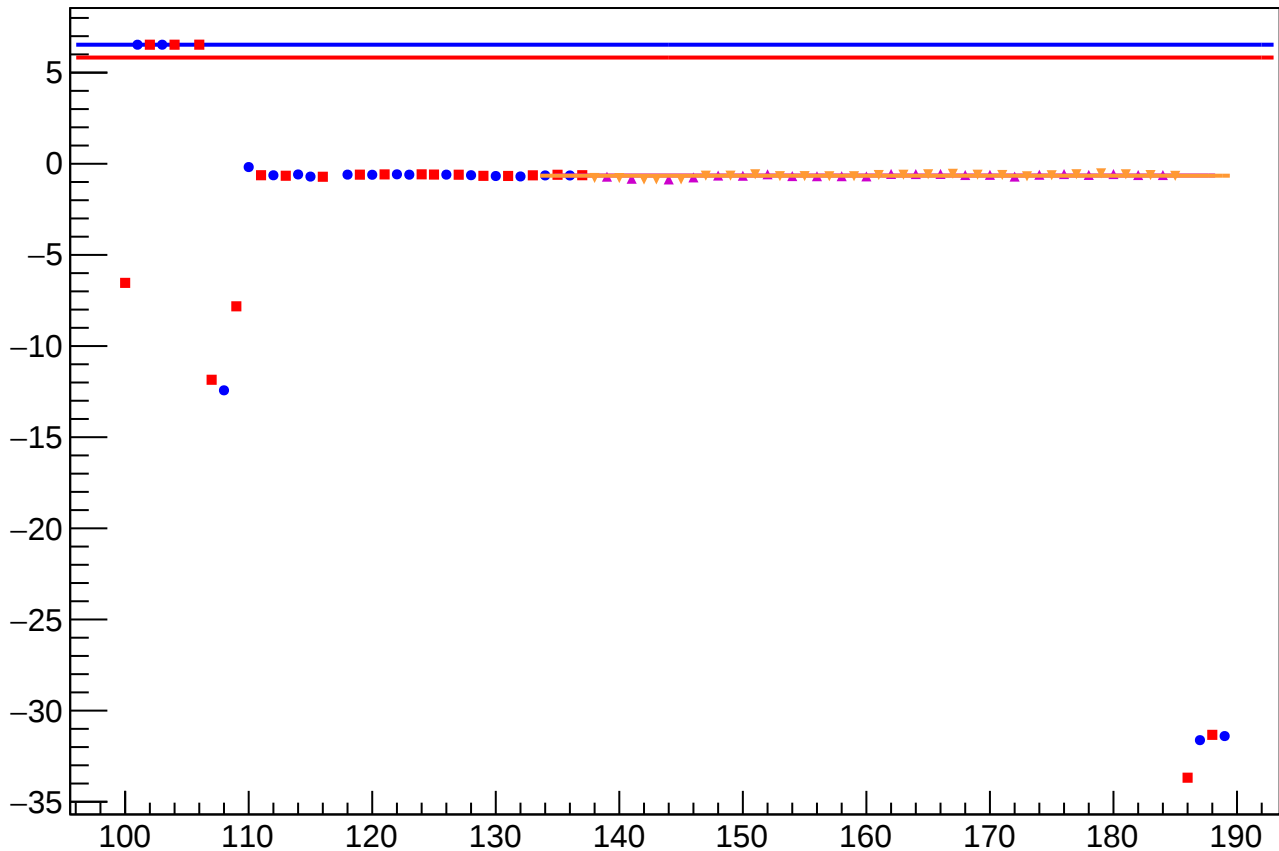
Right: 135.998 $\pm$ 0.025 χ^2 /NDF: 1778401.7/39

In: 159.408 $\pm$ 0.024 χ^2 /NDF:2670810.5/41

Out: 156.123 $\pm$ 0.022 χ^2 /NDF:2764562.5/45

All: 157.660 $\pm$ 0.016 χ^2 /NDF: 5445675.1/87

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 : 755947459633464.1/20

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

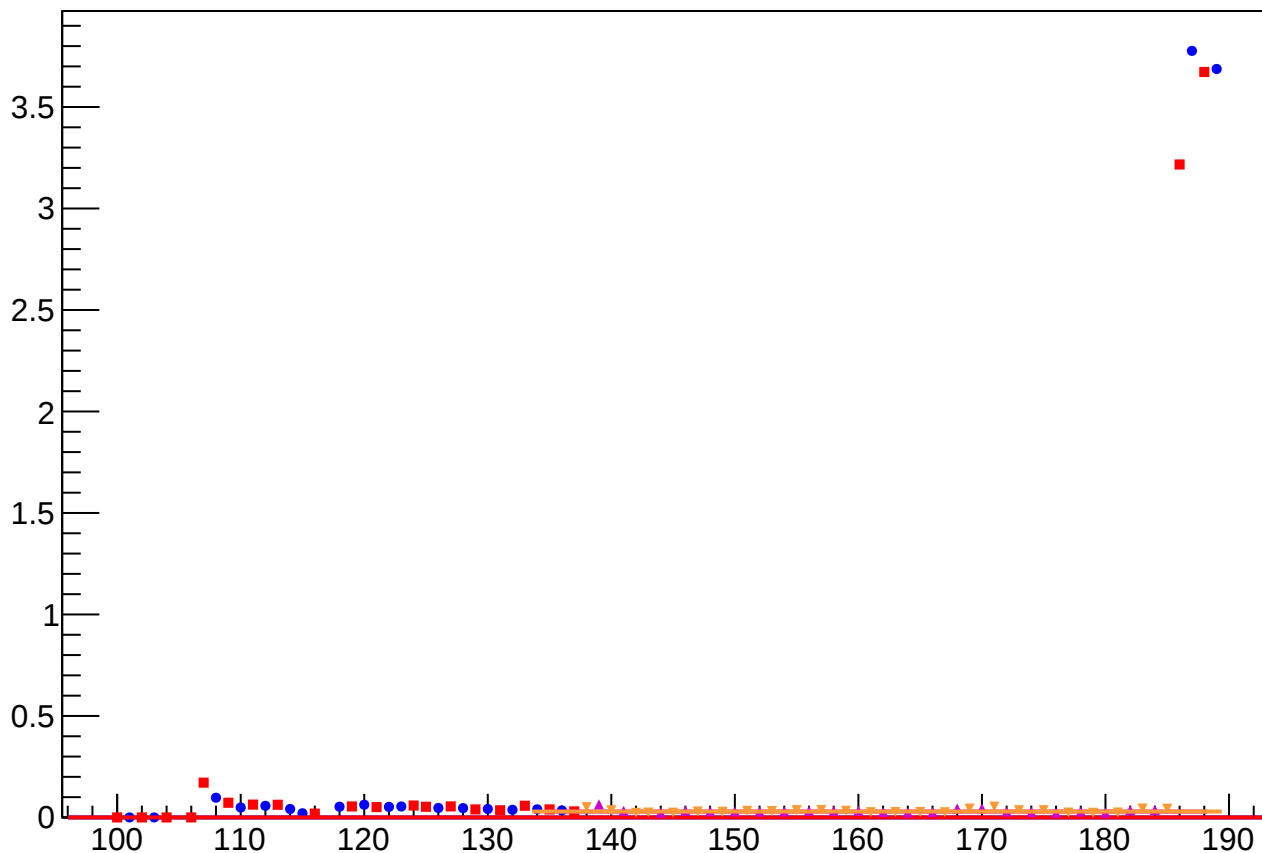
Right: 6.155+/-0.000 χ^2/NDF : 776078256141798.6

In: 6.530+/-0.000 χ^2/NDF : 952975347663.4/41

Out: 5.826+/-0.000 χ^2/NDF : 756656488302330.9/4

All: 6.153+/-0.000 χ^2/NDF : 77760162594058

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 : 11760216.4/20

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

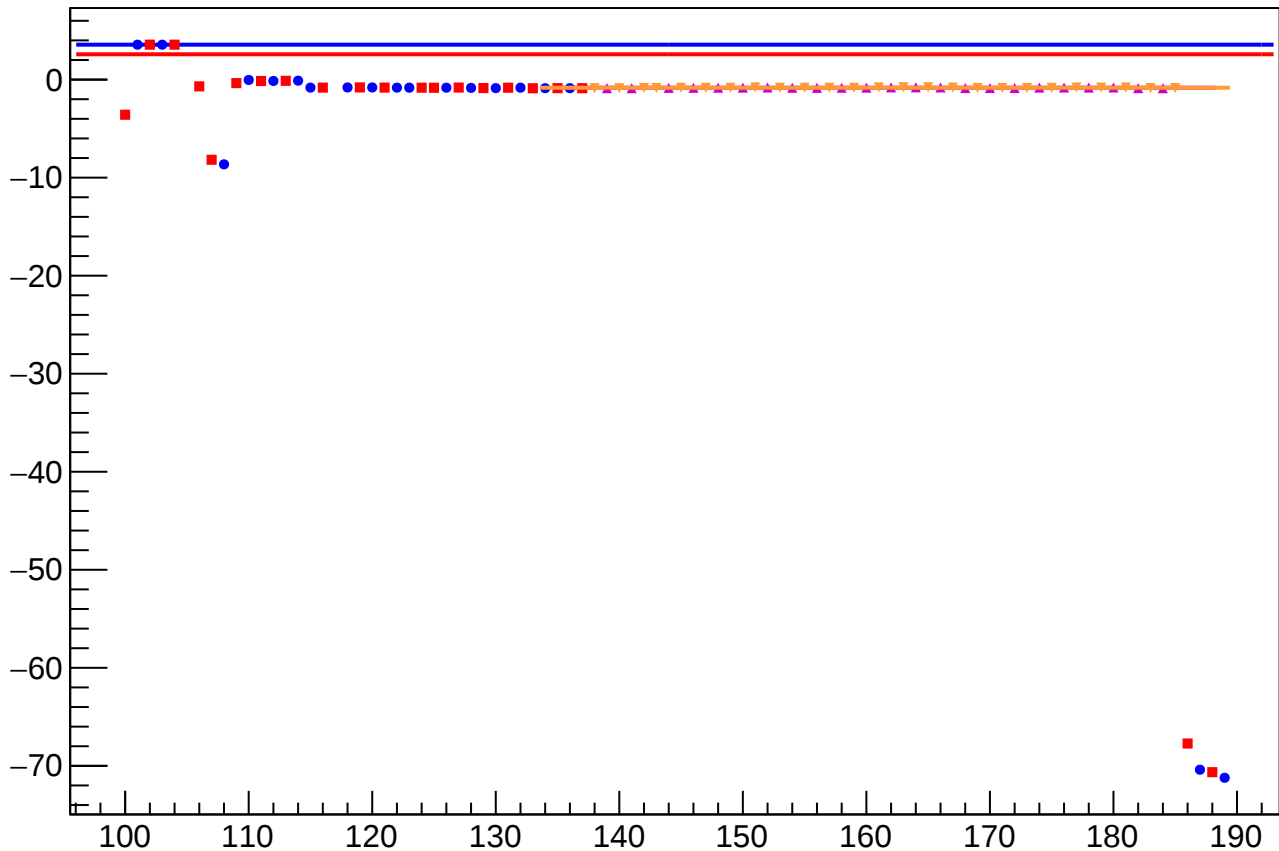
Right: 0.000+/-0.000 χ^2/NDF : 21965818.6/39

In: 0.000+/-0.000 χ^2/NDF :38167054.4/41

Out: 0.000+/-0.000 χ^2/NDF :41635910.9/45

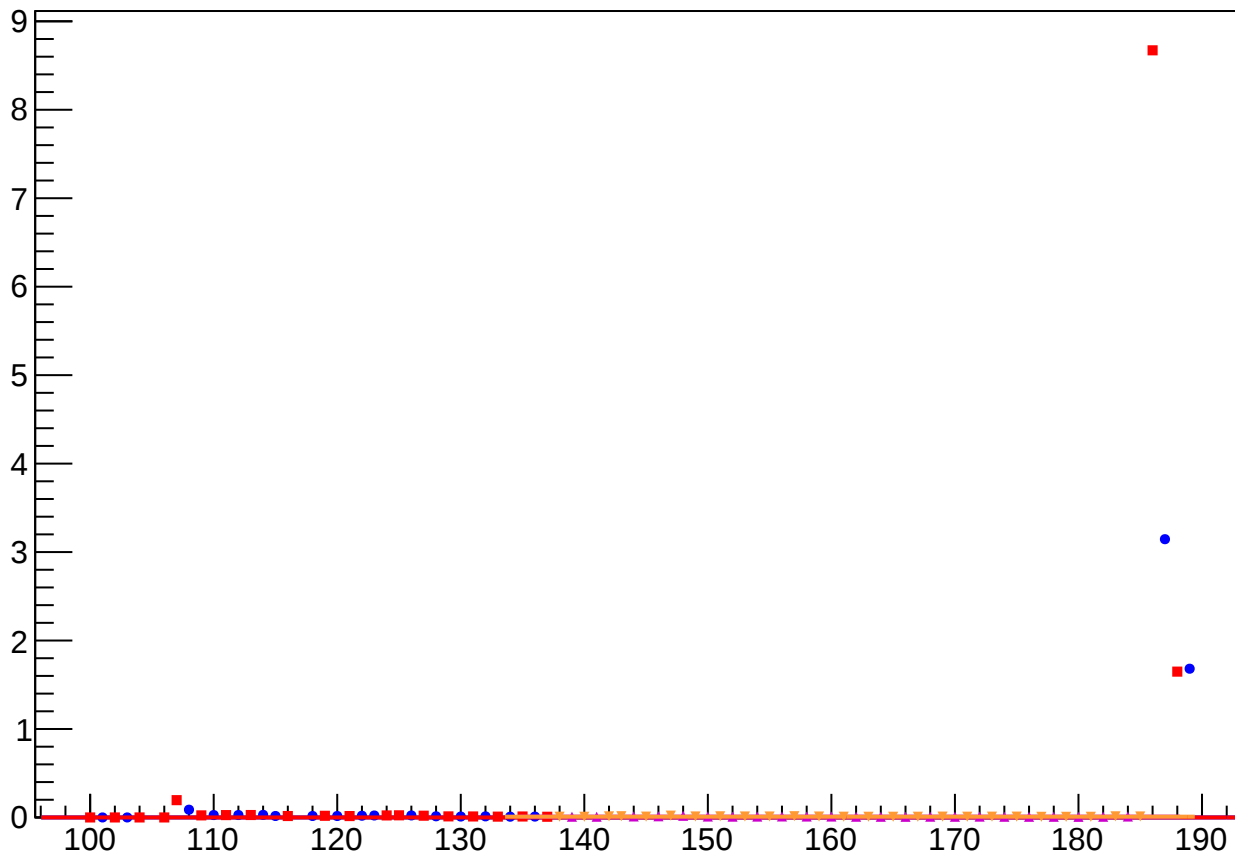
All: 0.000+/-0.000 χ^2/NDF : 79803380.7/87

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 485939329249.8/18	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382263386621834.8
Right Out: 2.583+/-0.000	χ^2/NDF : 1253506251724814.5/20	In: 3.560+/-0.000	χ^2/NDF : 4131692674187.1/41
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255728584221219.2
		All: 3.038+/-0.000	χ^2/NDF : 13879498620785.8

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 : 12184093.0/20

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

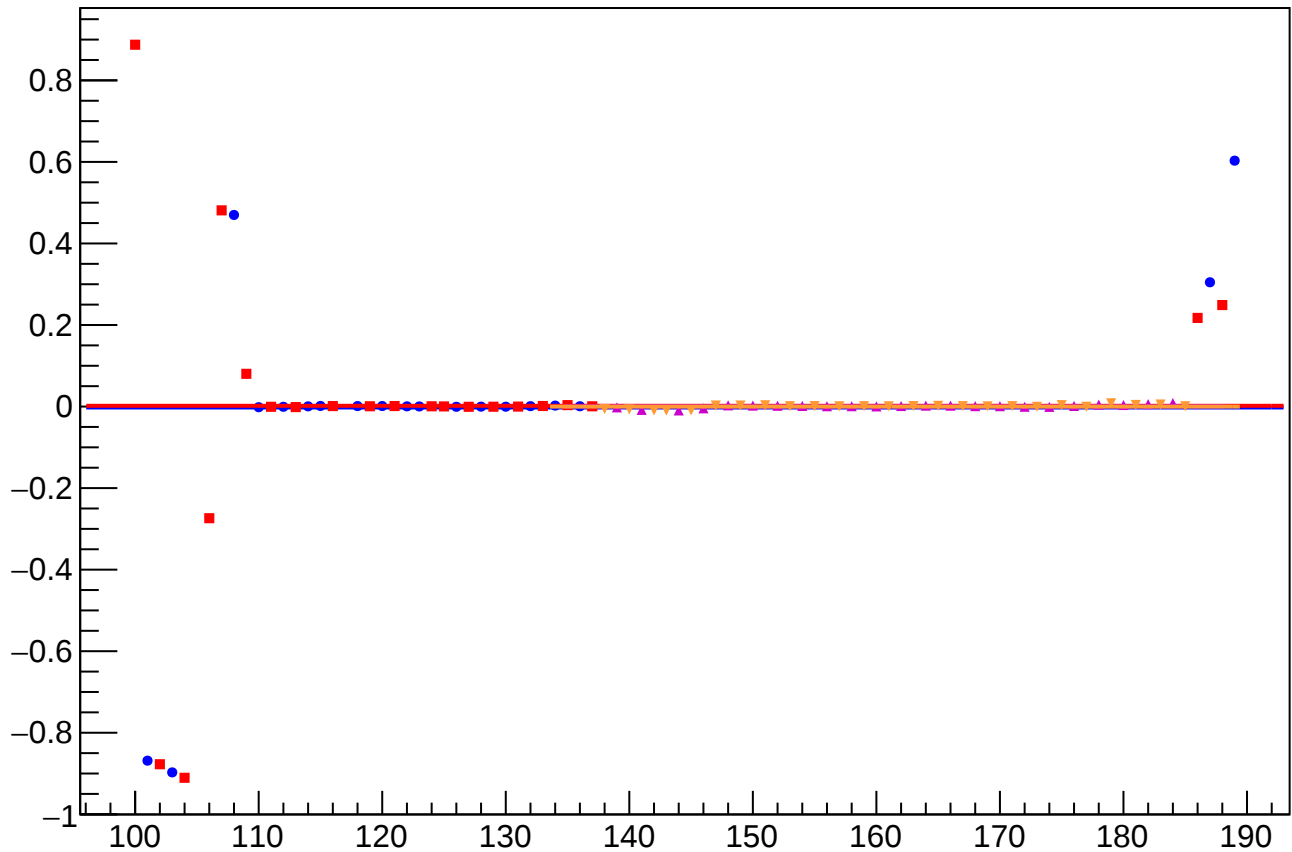
Right: 0.000+/-0.000 χ^2/NDF : 23138551.7/39

In: 0.000+/-0.000 χ^2/NDF :40490325.0/41

Out: 0.000+/-0.000 χ^2/NDF :43602796.3/45

All: 0.000+/-0.000 χ^2/NDF : 84093875.2/87

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 $\pm$ 0.000 χ^2 /NDF: 9795560562.2/18

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 151482851.1/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3041376029.4/20

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF: 101439617.3/22

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 254436385.6/47

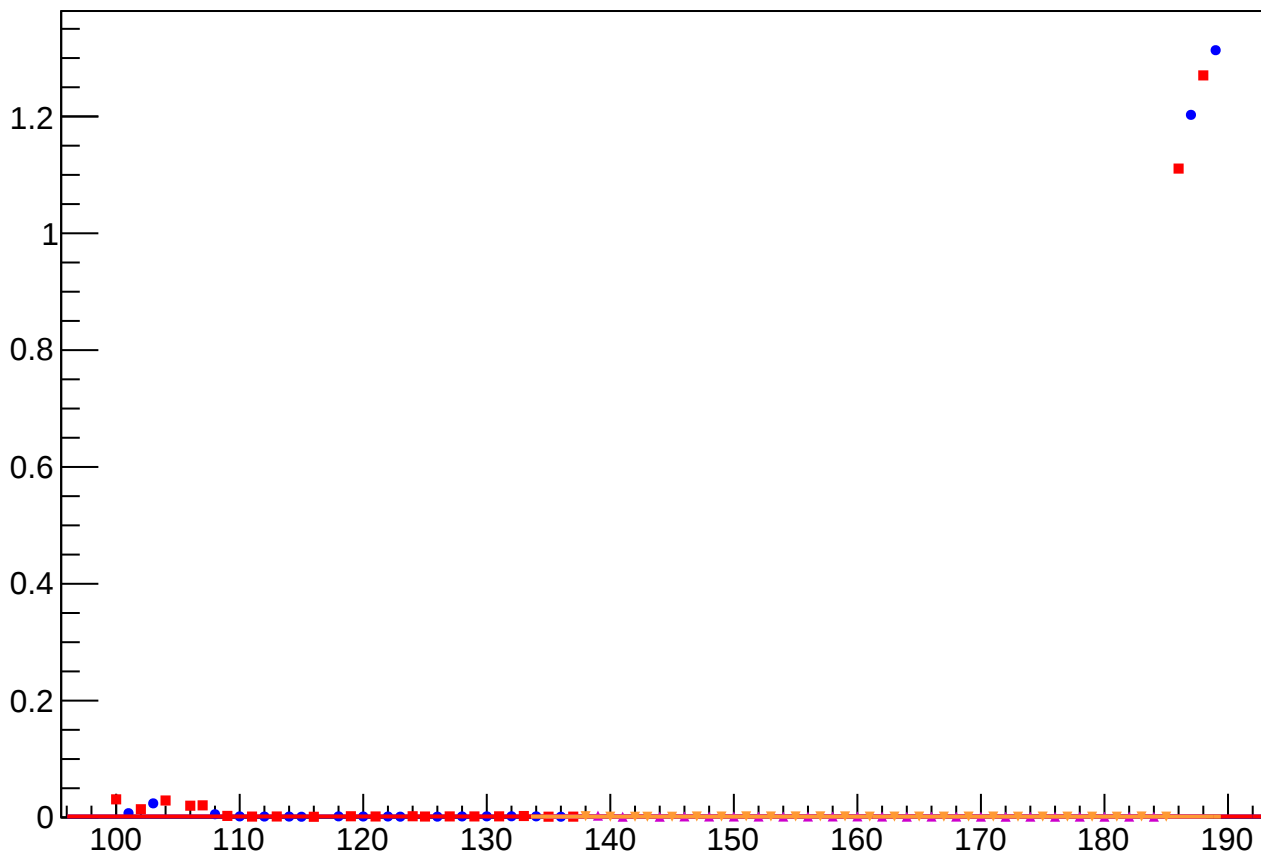
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 12850703537.6/39

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 9908019182.0/41

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 3197585721.9/45

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 13105941859.1/8

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 : 5412273.9/20

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

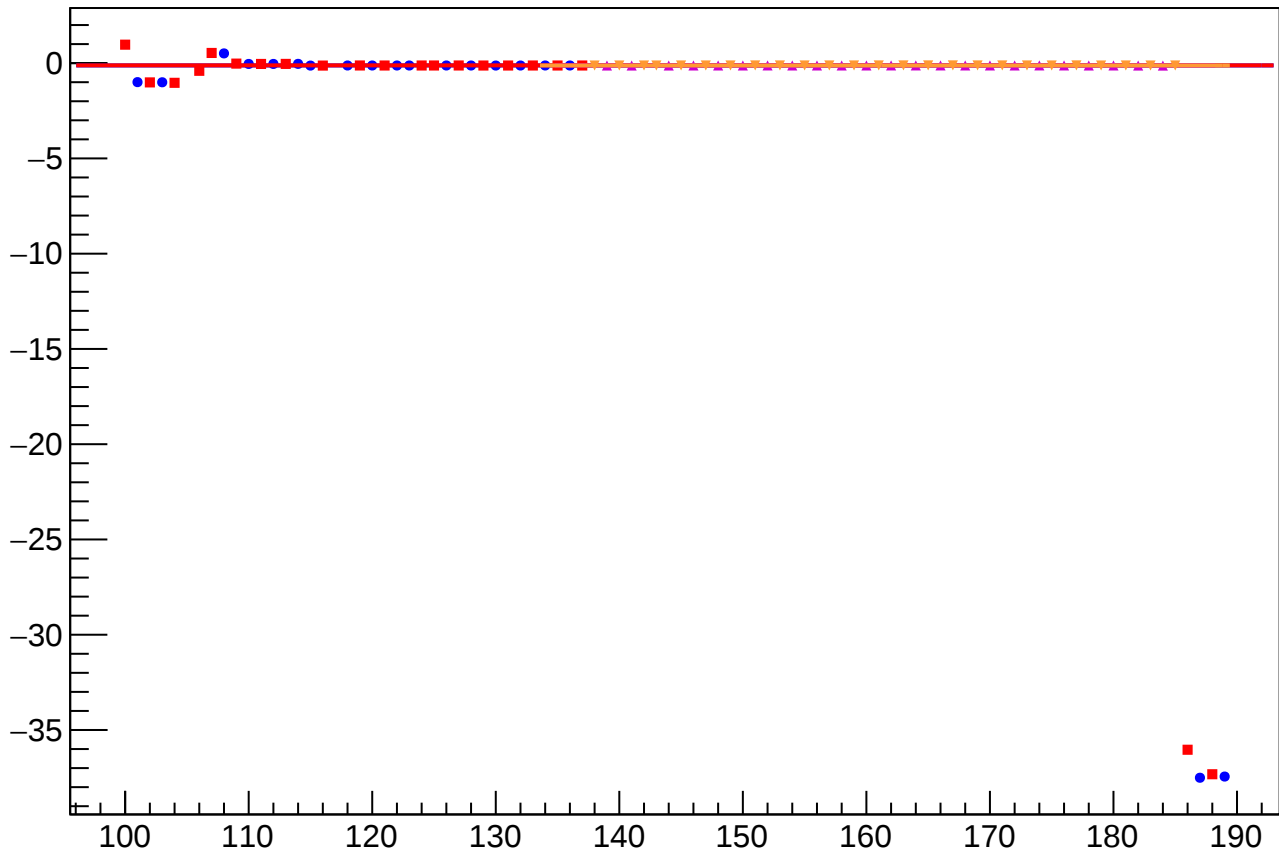
Right: 0.002+/-0.000 χ^2/NDF : 8524755.1/39

In: 0.002+/-0.000 χ^2/NDF : 3780174.1/41

Out: 0.002+/-0.000 χ^2/NDF : 6088274.3/45

All: 0.002+/-0.000 χ^2/NDF : 9869356.7/87

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: -0.115+/-0.000 χ^2/NDF : 7841390064.4/20

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

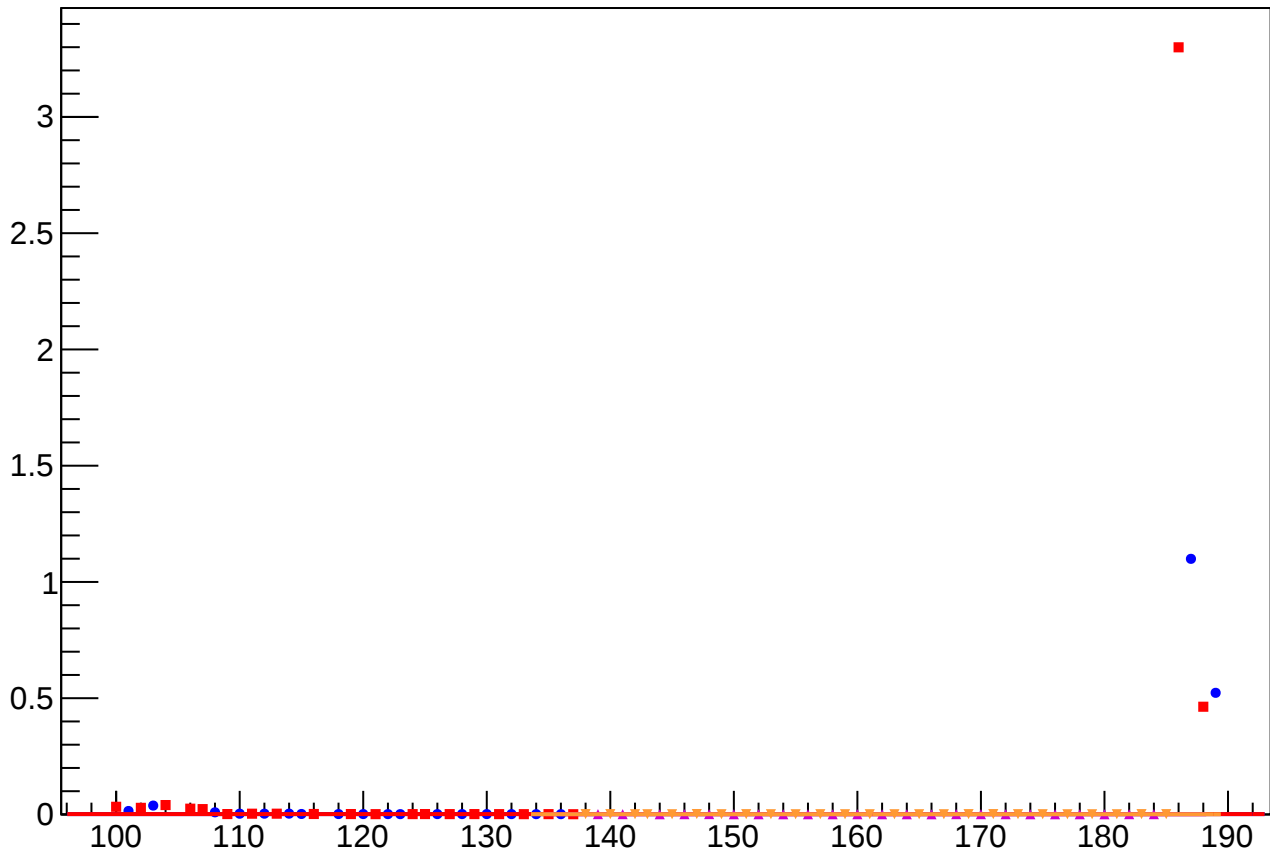
Right: -0.118+/-0.000 χ^2/NDF : 14157104553.0/39

In: -0.121+/-0.000 χ^2/NDF : 6345646432.2/41

Out: -0.121+/-0.000 χ^2/NDF : 7953269626.3/45

All: -0.121+/-0.000 χ^2/NDF : 14299846589.2/100

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 : 5891856.8/20

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

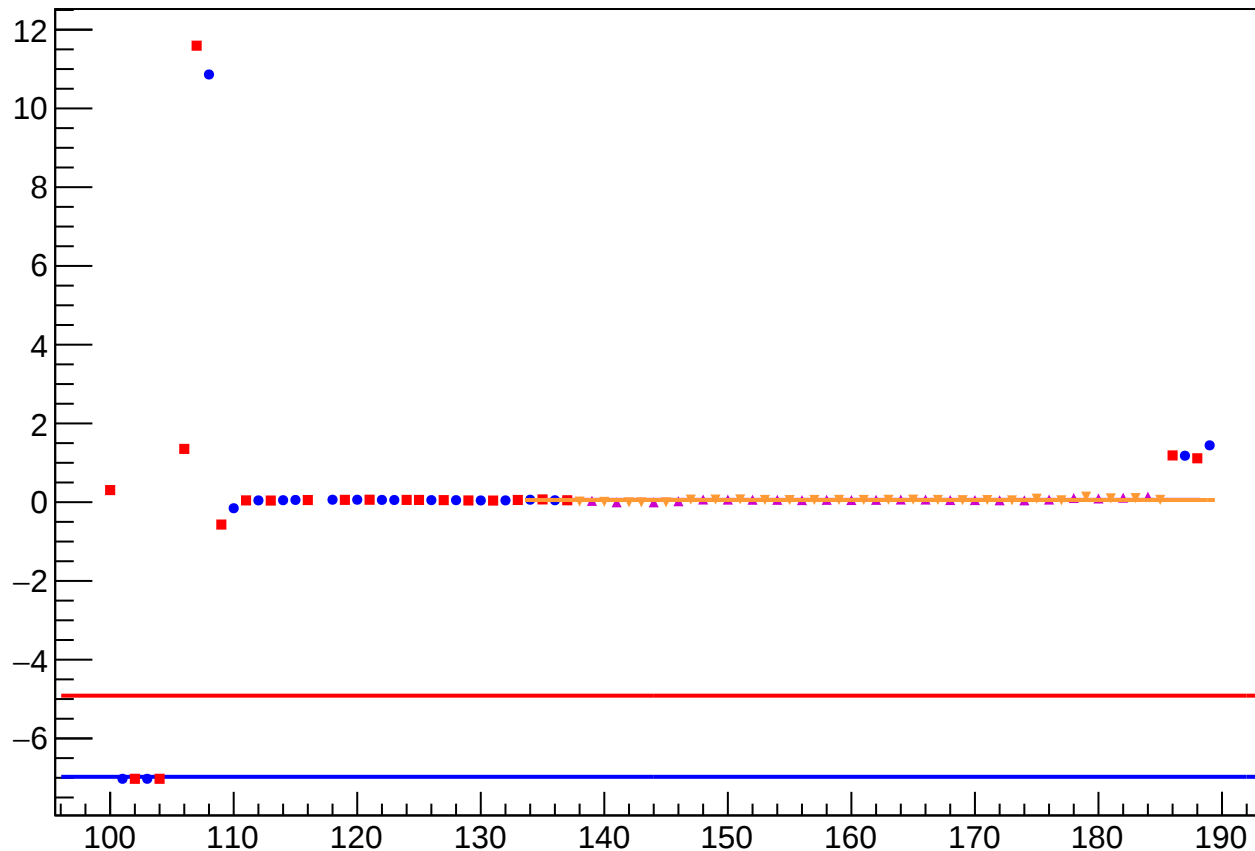
Right: 0.002+/-0.000 χ^2/NDF : 9934203.6/39

In: 0.001+/-0.000 χ^2/NDF :6155049.7/41

Out: 0.001+/-0.000 χ^2/NDF :8402211.0/45

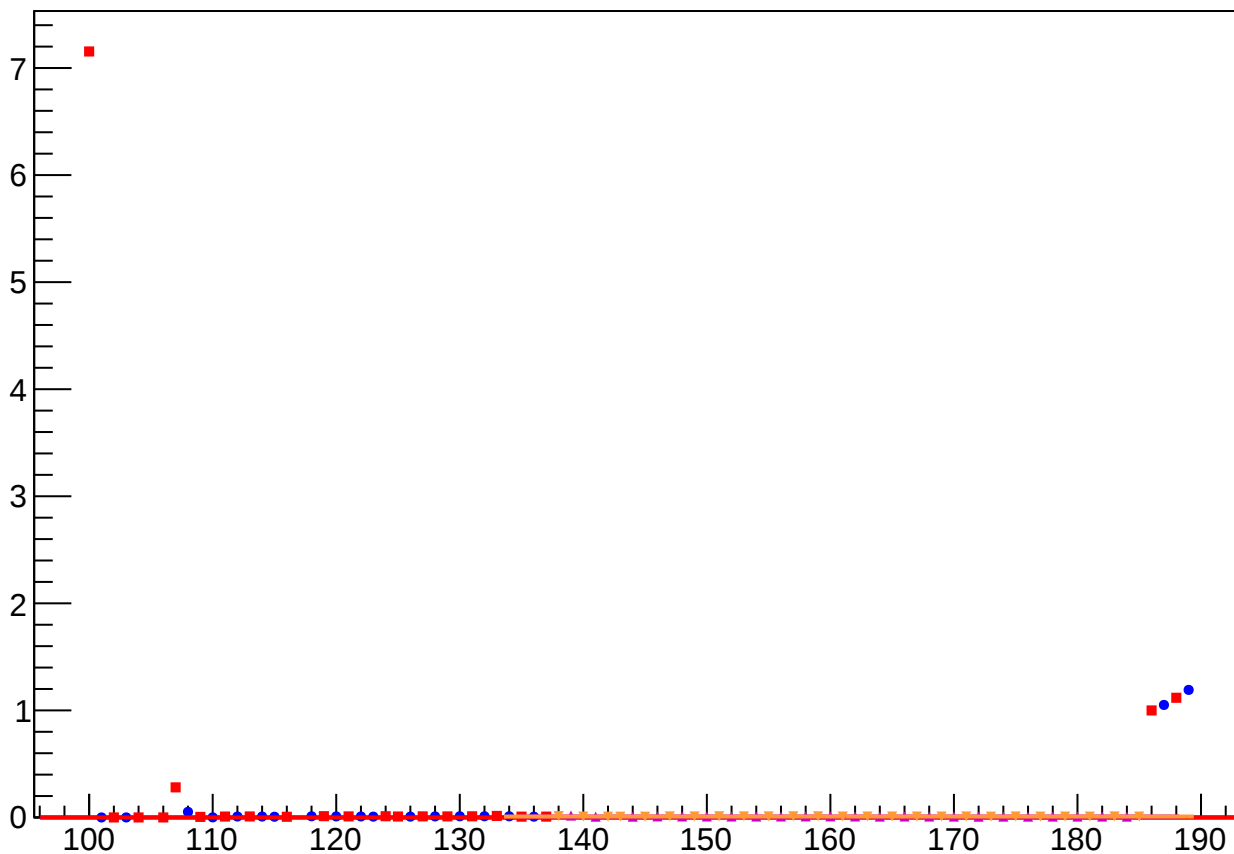
All: 0.001+/-0.000 χ^2/NDF : 14559802.4/87

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8797389084913.4/18
 Left Out: 0.055+/-0.000 χ^2/NDF : 243682351.4/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365352694172718.6/20
 Left In: 0.059+/-0.000 χ^2/NDF : 178541521.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 423736513.4/47
 Right: -5.900+/-0.000 χ^2/NDF : 430333341217182.1
 In: -6.926+/-0.000 χ^2/NDF : 17552909167298.7/41
 Out: -4.879+/-0.000 χ^2/NDF : 370165258484805.1
 All: -5.858+/-0.000 χ^2/NDF : 4435286347933

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 : 11174432.9/20

Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

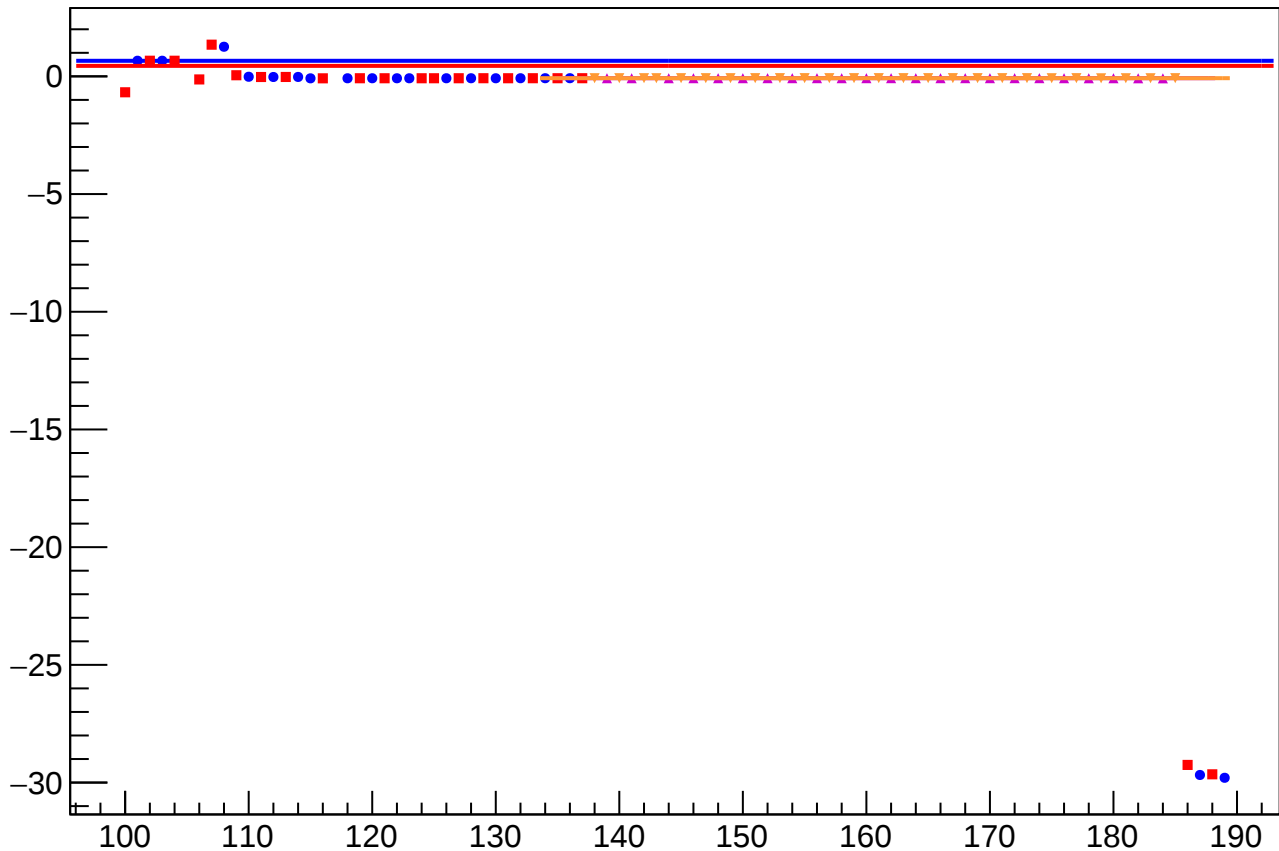
Right: 0.000+/-0.000 χ^2/NDF : 20711288.1/39

In: 0.000+/-0.000 χ^2/NDF : 36955360.0/41

Out: 0.000+/-0.000 χ^2/NDF : 40119470.2/45

All: 0.000+/-0.000 χ^2/NDF : 77075294.0/87

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 : 405433478660382.4/20

Left In: -0.077+/-0.000 χ^2/NDF : 110762924.1/22

Left: -0.078+/-0.000 χ^2/NDF : 267206251.1/47

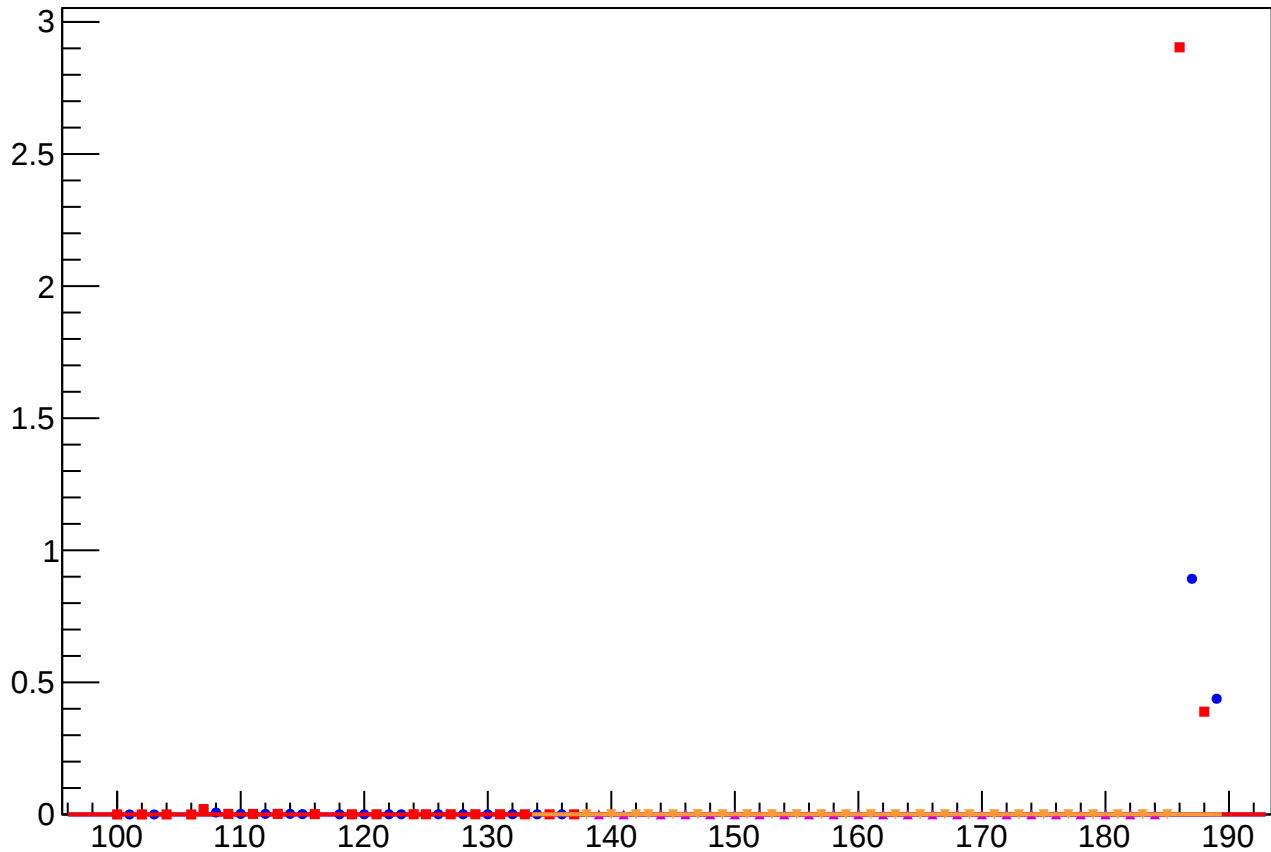
Right: 0.549+/-0.000 χ^2/NDF : 474007772505787.8/49

In: 0.647+/-0.000 χ^2/NDF : 33701720603131.4/41

Out: 0.436+/-0.000 χ^2/NDF : 420594594021019.7/43

All: 0.537+/-0.000 χ^2/NDF : 51585224889419.4/90

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 : 11850768.2/20

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

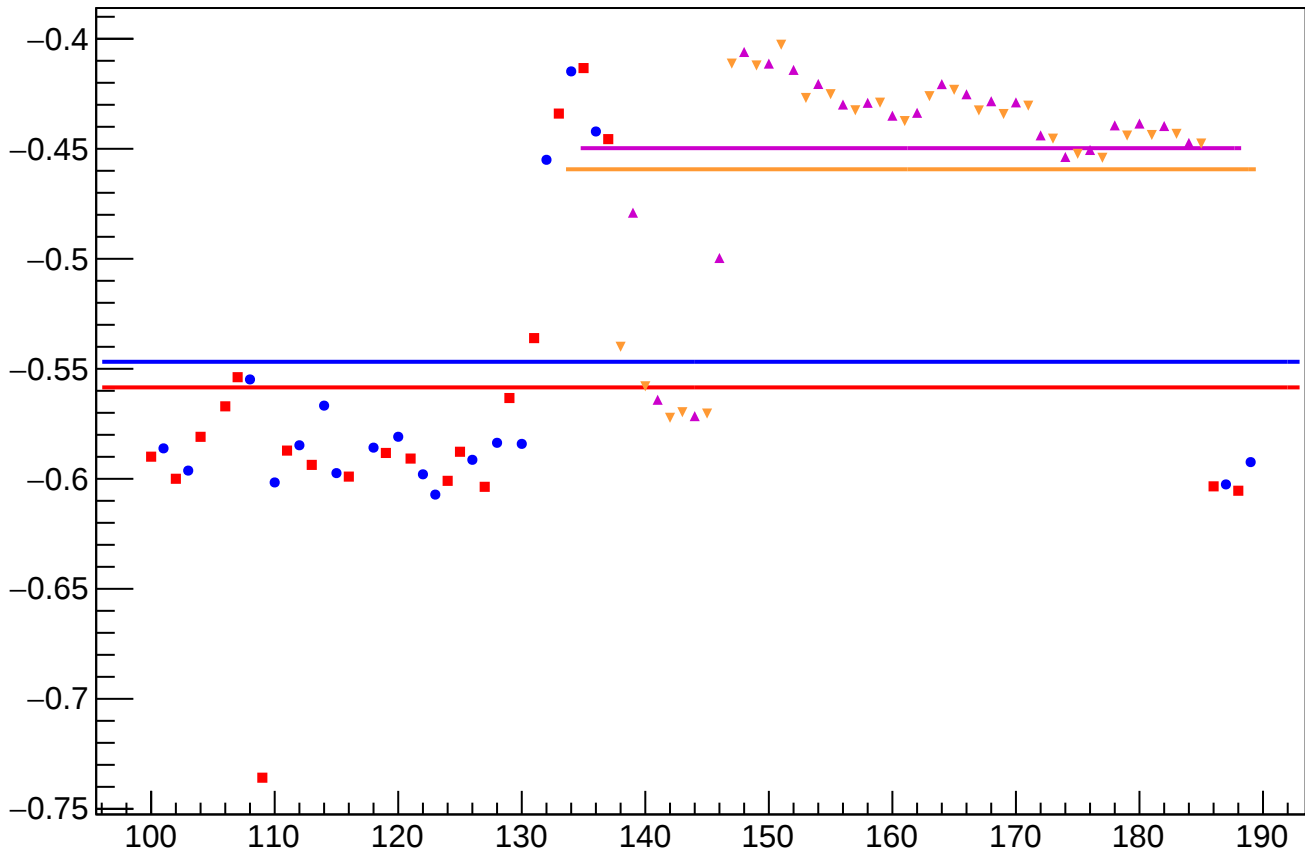
Right: 0.000+/-0.000 χ^2/NDF : 22981130.3/39

In: 0.000+/-0.000 χ^2/NDF : 41863433.7/41

Out: 0.000+/-0.000 χ^2/NDF : 44472704.9/45

All: 0.000+/-0.000 χ^2/NDF : 86336473.8/87

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547 ± 0.000 $\chi^2/\text{NDF}: 46920498.7/18$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 113602161.0/24$

Right Out: -0.558 ± 0.000 $\chi^2/\text{NDF}: 65238071.8/20$

Left In: -0.450 ± 0.000 $\chi^2/\text{NDF}: 76117957.8/22$

Left: -0.455 ± 0.000 $\chi^2/\text{NDF}: 191493218.8/47$

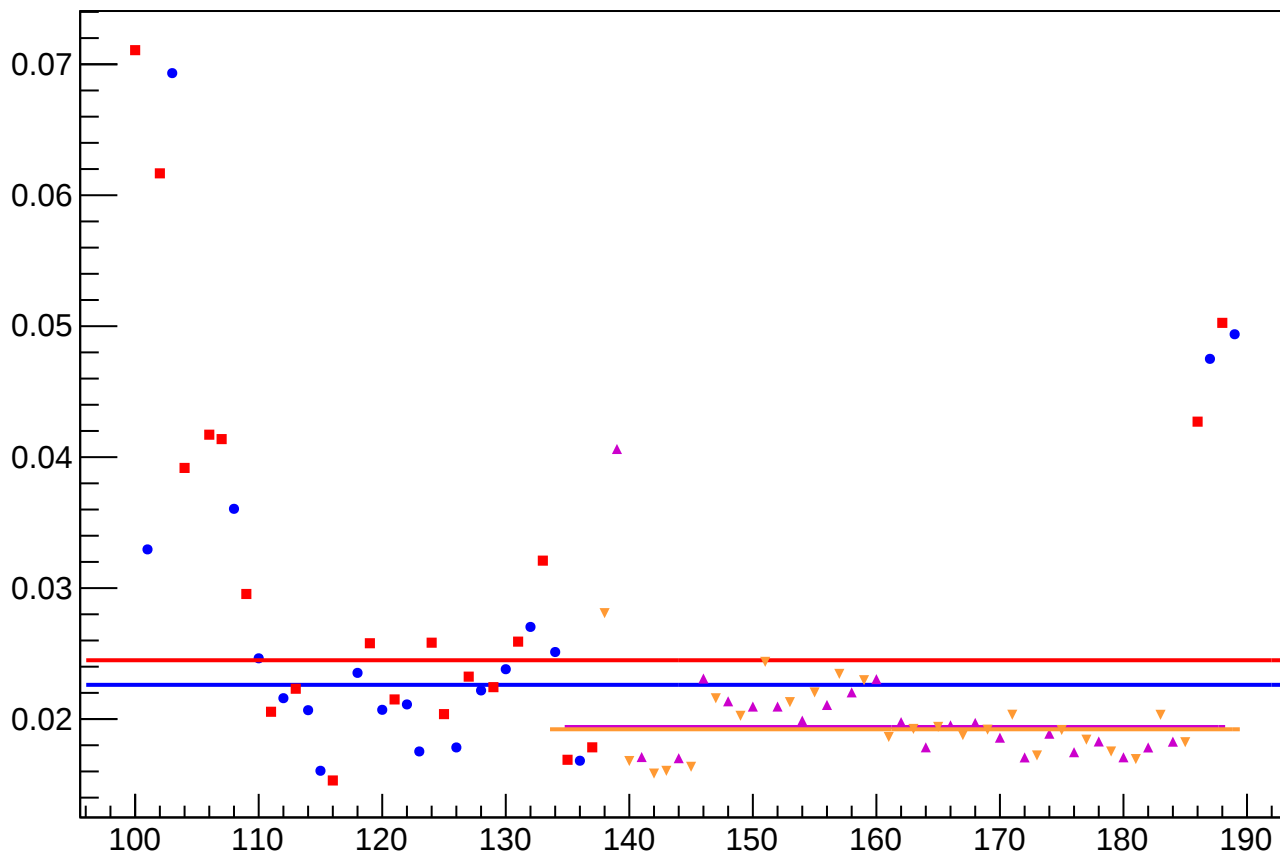
Right: -0.553 ± 0.000 $\chi^2/\text{NDF}: 112873930.0/39$

In: -0.472 ± 0.000 $\chi^2/\text{NDF}: 201775417.8/41$

Out: -0.480 ± 0.000 $\chi^2/\text{NDF}: 259741210.5/45$

All: -0.476 ± 0.000 $\chi^2/\text{NDF}: 463106244.1/87$

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: 0.024+/-0.000 χ^2/NDF : 1752709.1/20

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

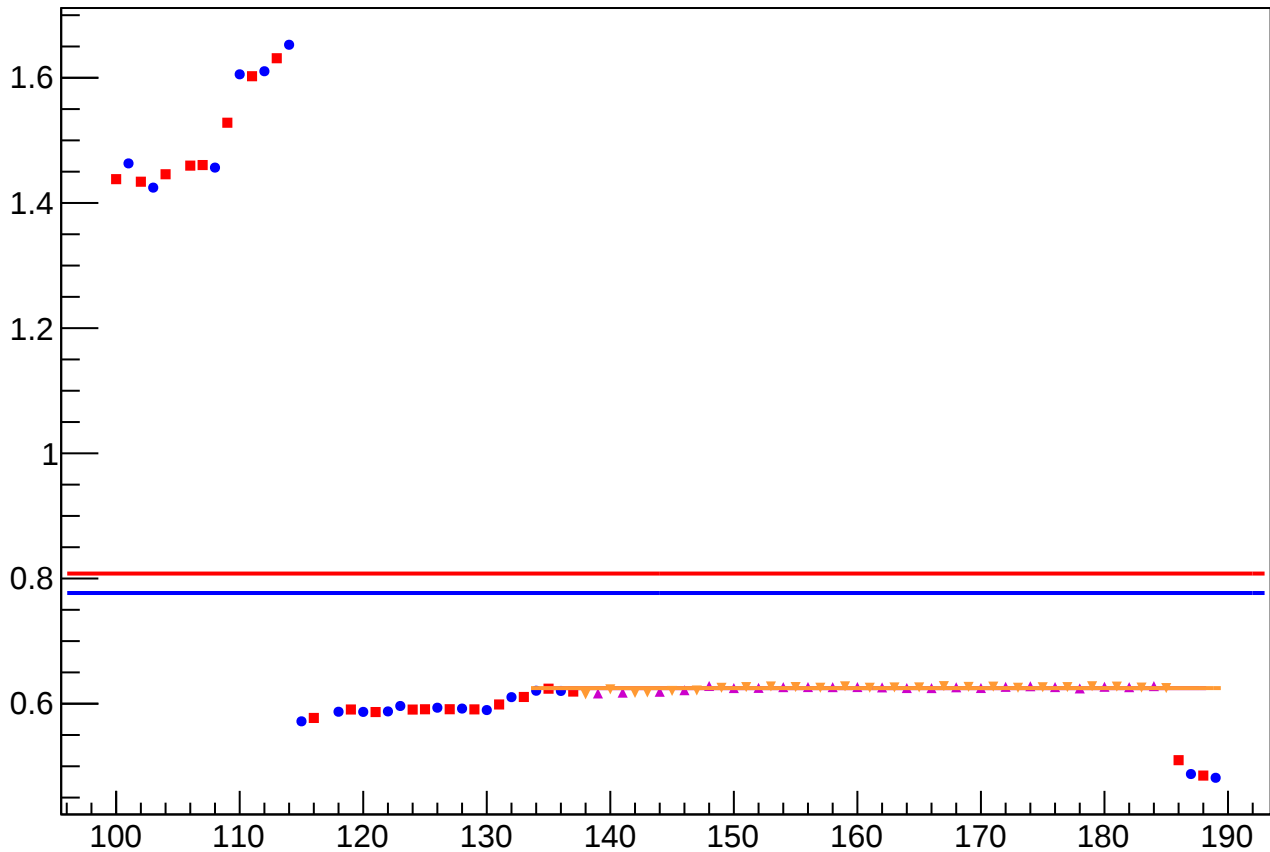
Right: 0.024+/-0.000 χ^2/NDF : 3097886.5/39

In: 0.020+/-0.000 χ^2/NDF : 2107503.1/41

Out: 0.020+/-0.000 χ^2/NDF : 2711892.7/45

All: 0.020+/-0.000 χ^2/NDF : 4821003.8/87

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.777+/-0.000 χ^2/NDF : 3674170770.5/18

Left Out: 0.625+/-0.000 χ^2/NDF : 1445169.1/24

Right Out: 0.808+/-0.000 χ^2/NDF : 4404152233.8/20

Left In: 0.625+/-0.000 χ^2/NDF : 1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

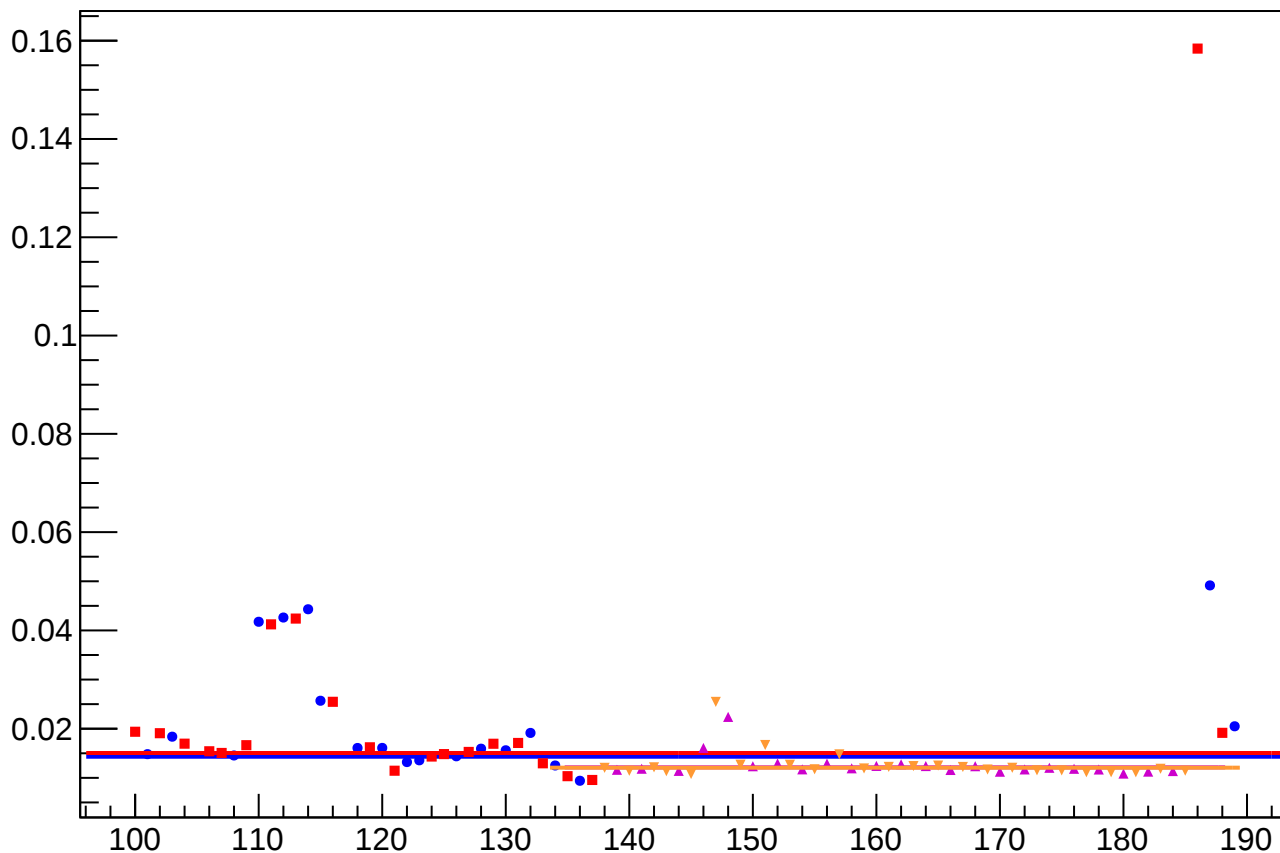
Right: 0.792+/-0.000 χ^2/NDF : 8092807839.0/39

In: 0.656+/-0.000 χ^2/NDF : 4220986885.7/41

Out: 0.661+/-0.000 χ^2/NDF : 5214266424.9/45

All: 0.659+/-0.000 χ^2/NDF : 9437030348.5/87

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 : 1929561.5/20

Left In: 0.012 ± 0.000 χ^2/NDF : 488363.6/22

Left: 0.012 ± 0.000 χ^2/NDF : 1146061.0/47

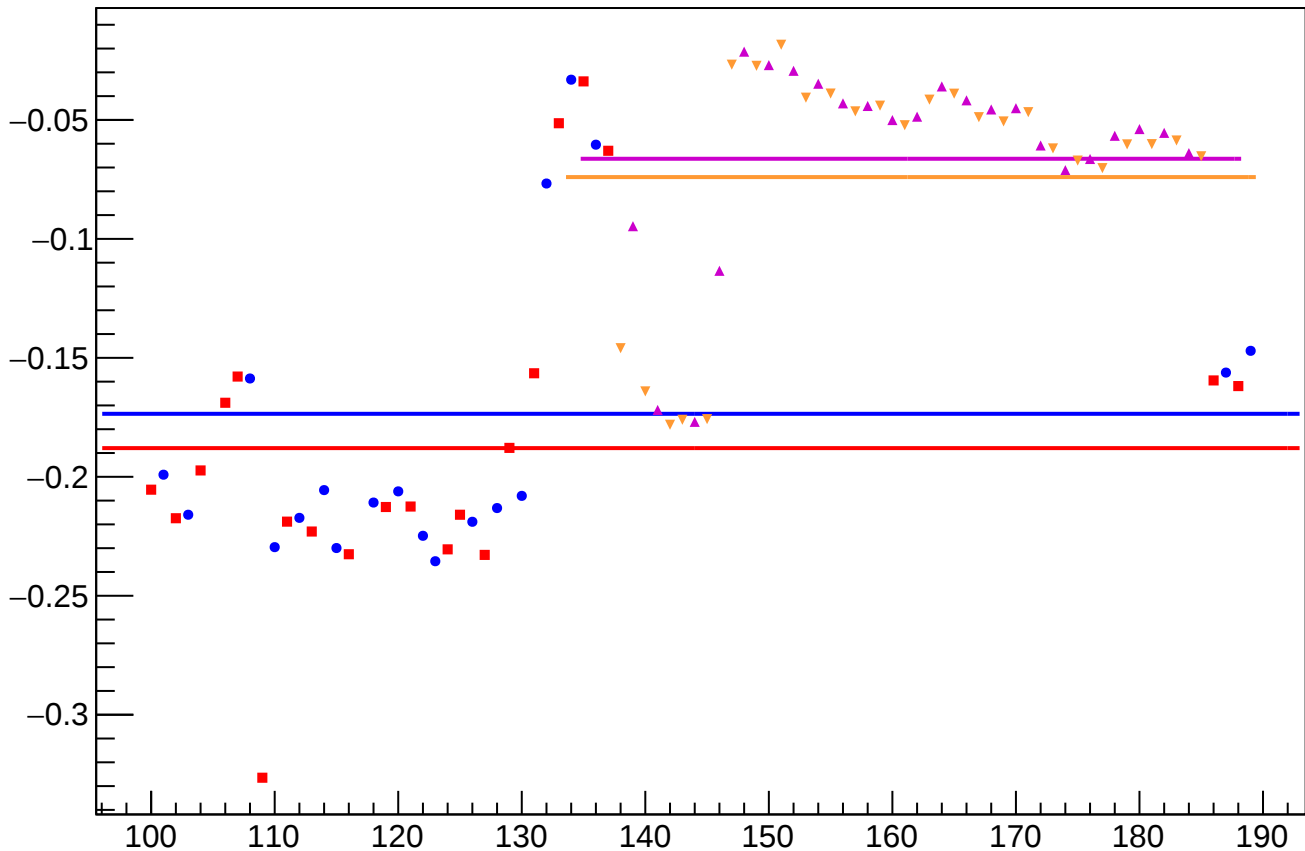
Right: 0.015 ± 0.000 χ^2/NDF : 3568444.4/39

In: 0.013 ± 0.000 χ^2/NDF : 2331293.6/41

Out: 0.013 ± 0.000 χ^2/NDF : 3017296.6/45

All: 0.013 ± 0.000 χ^2/NDF : 5349518.1/87

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 : 82364538.0/20

Left In: -0.066 ± 0.000 χ^2/NDF : 76243051.8/22

Left: -0.070 ± 0.000 χ^2/NDF : 185076997.5/47

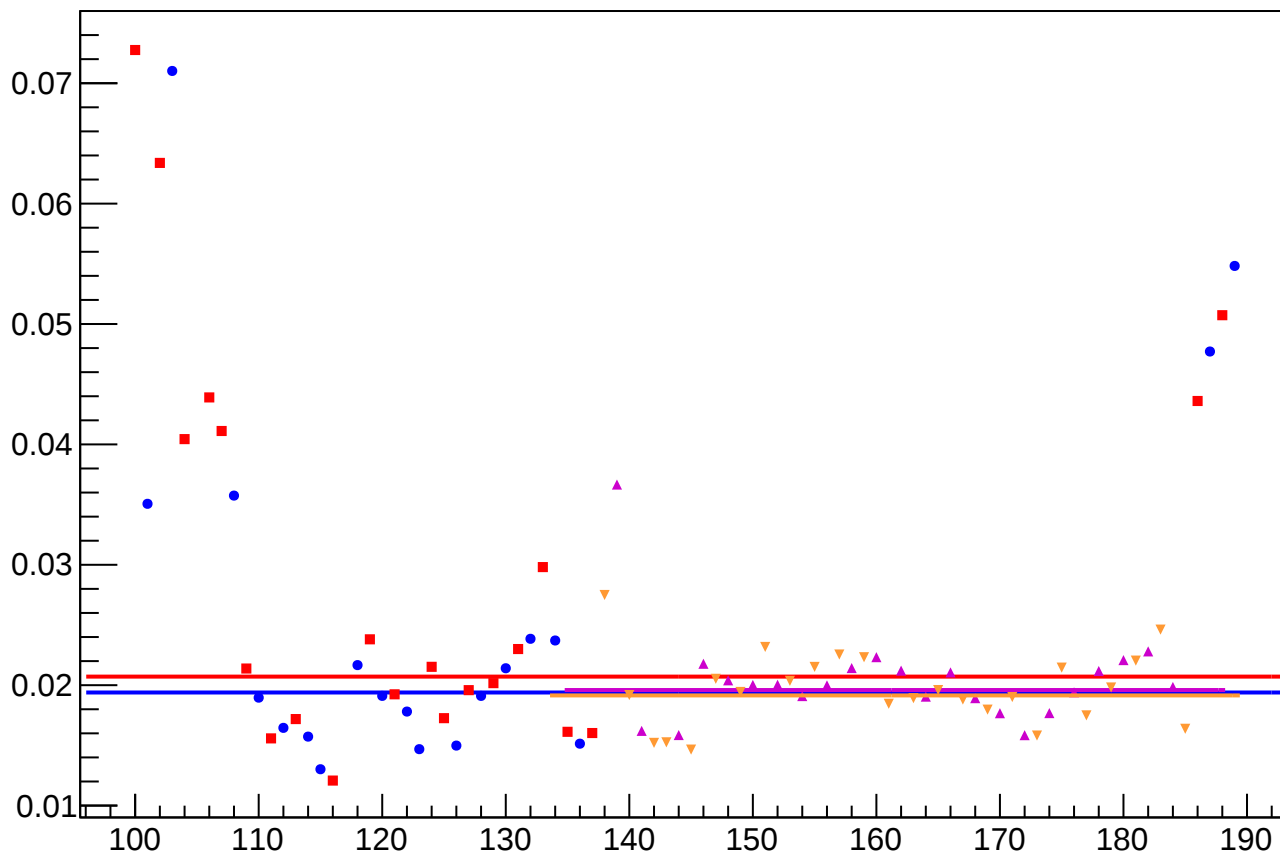
Right: -0.181 ± 0.000 χ^2/NDF : 150731642.3/39

In: -0.096 ± 0.000 χ^2/NDF : 261321661.3/41

Out: -0.103 ± 0.000 χ^2/NDF : 324992019.1/45

All: -0.100 ± 0.000 χ^2/NDF : 587548020.5/87

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 : 2273091.3/20

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

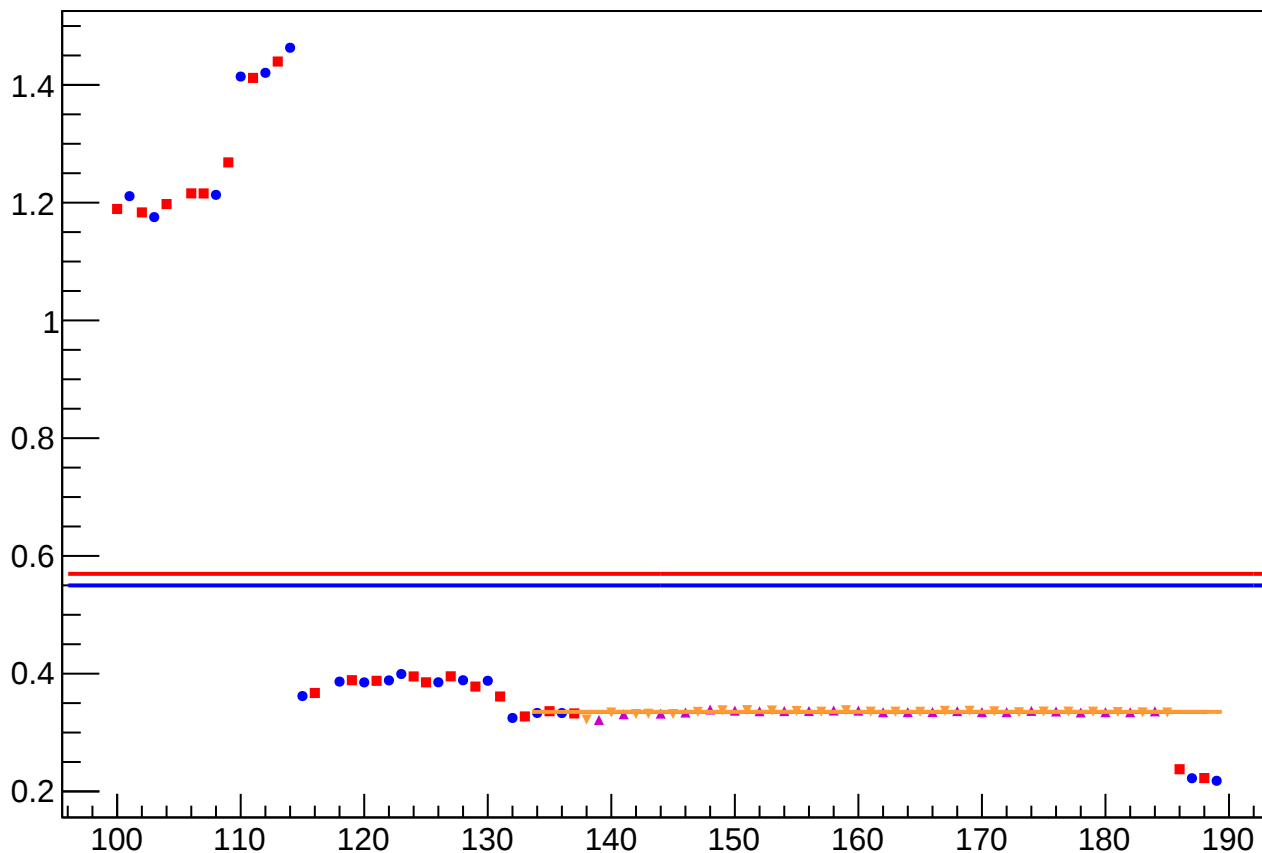
Right: 0.020+/-0.000 χ^2/NDF : 3992623.8/39

In: 0.020+/-0.000 χ^2/NDF : 2319039.8/41

Out: 0.020+/-0.000 χ^2/NDF : 2965154.7/45

All: 0.020+/-0.000 χ^2/NDF : 5284195.5/87

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: 0.570+/-0.000 χ^2/NDF : 6038912329.3/20

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

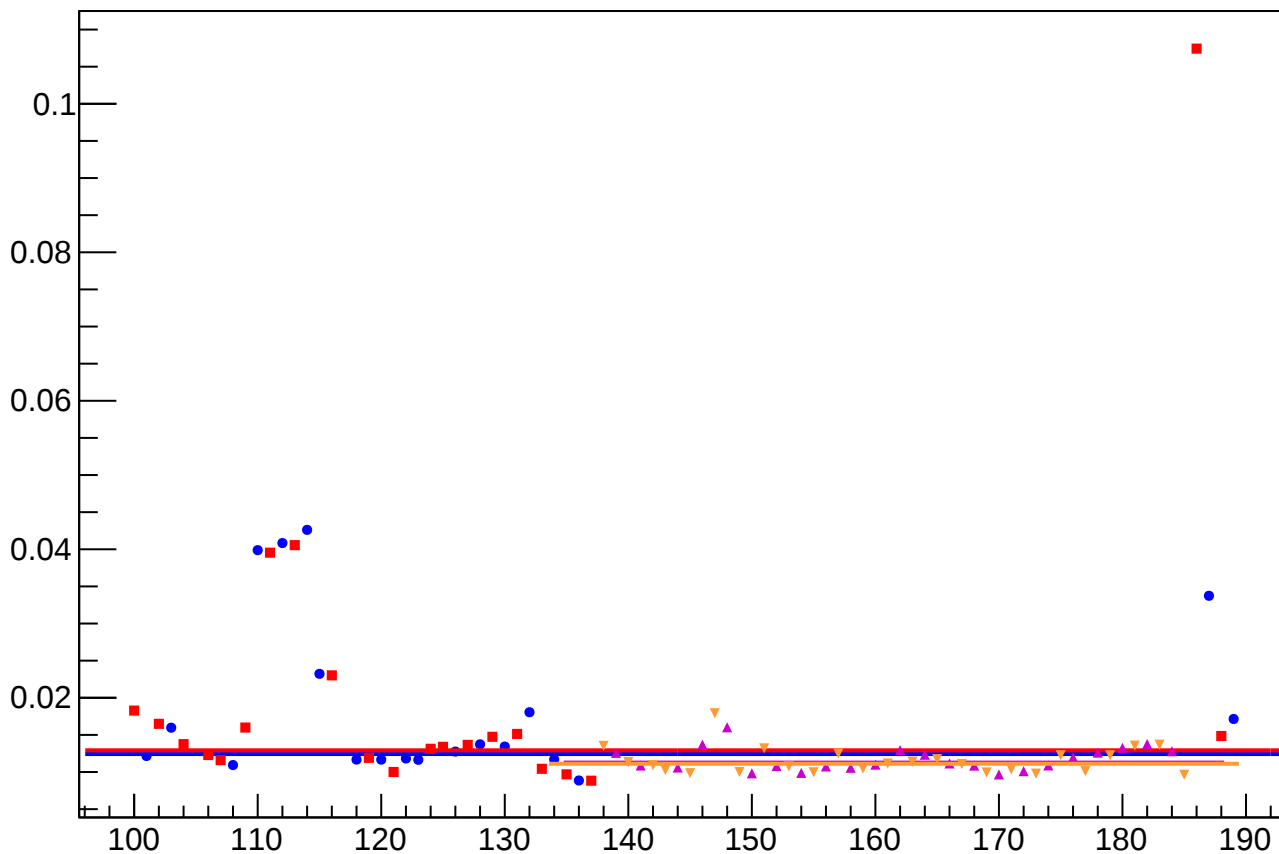
Right: 0.560+/-0.000 χ^2/NDF : 11279536737.5/39

In: 0.386+/-0.000 χ^2/NDF :6642350066.9/41

Out: 0.387+/-0.000 χ^2/NDF :7773045569.4/45

All: 0.386+/-0.000 χ^2/NDF : 14415691971.7/8

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 ± 0.000 χ^2/NDF : 1491297.3/18

Left Out: 0.011 ± 0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013 ± 0.000 χ^2/NDF : 1854014.3/20

Left In: 0.011 ± 0.000 χ^2/NDF : 502455.5/22

Left: 0.011 ± 0.000 χ^2/NDF : 1113465.5/47

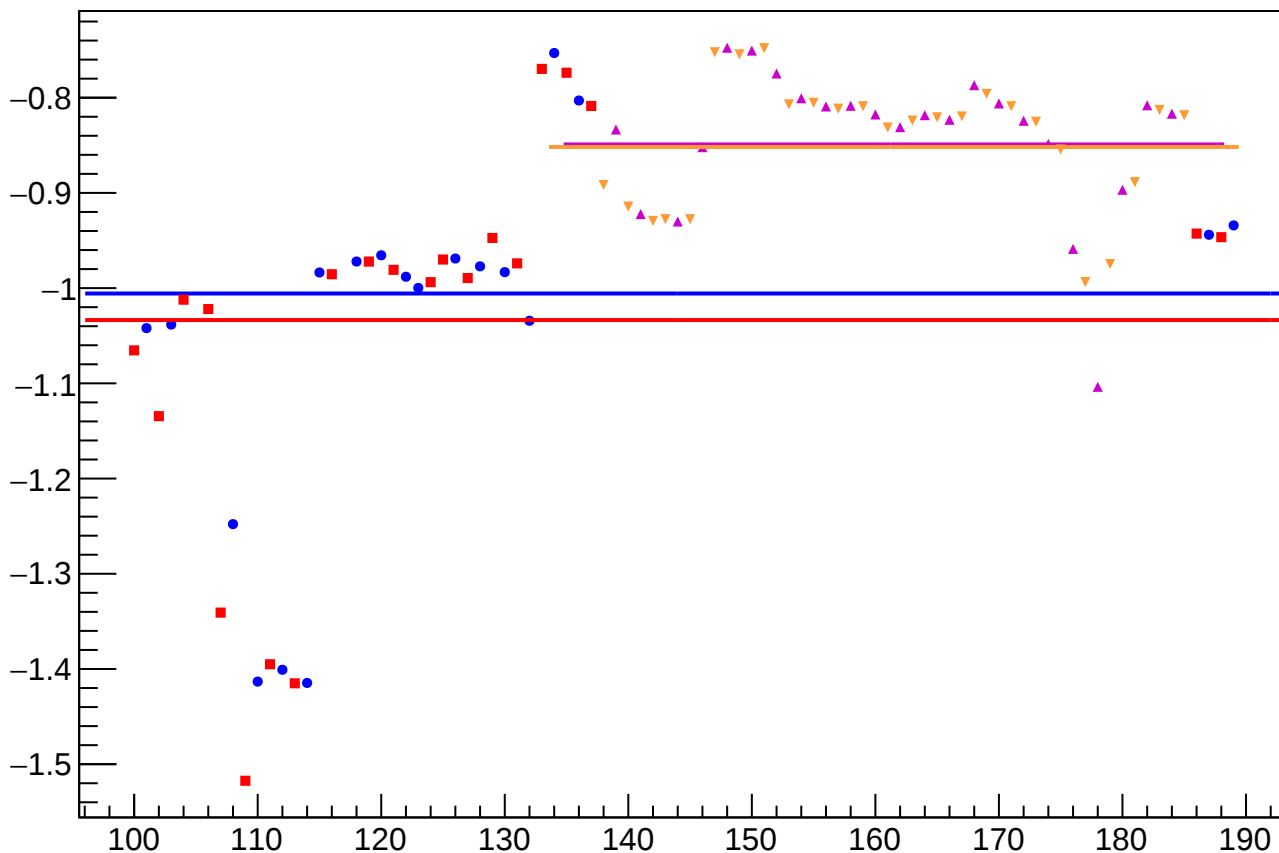
Right: 0.013 ± 0.000 χ^2/NDF : 3355525.2/39

In: 0.012 ± 0.000 χ^2/NDF : 2074310.7/41

Out: 0.012 ± 0.000 χ^2/NDF : 2668832.0/45

All: 0.012 ± 0.000 χ^2/NDF : 4743263.5/87

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.006+/-0.000 χ^2/NDF : 394858375.4/18

Left Out: -0.852+/-0.000 χ^2/NDF :189103962.4/24

Right Out: -1.034+/-0.000 χ^2/NDF : 540153075.4/20

Left In: -0.849+/-0.000 χ^2/NDF :256391274.4/22

Left: -0.850+/-0.000 χ^2/NDF : 445636655.2/47

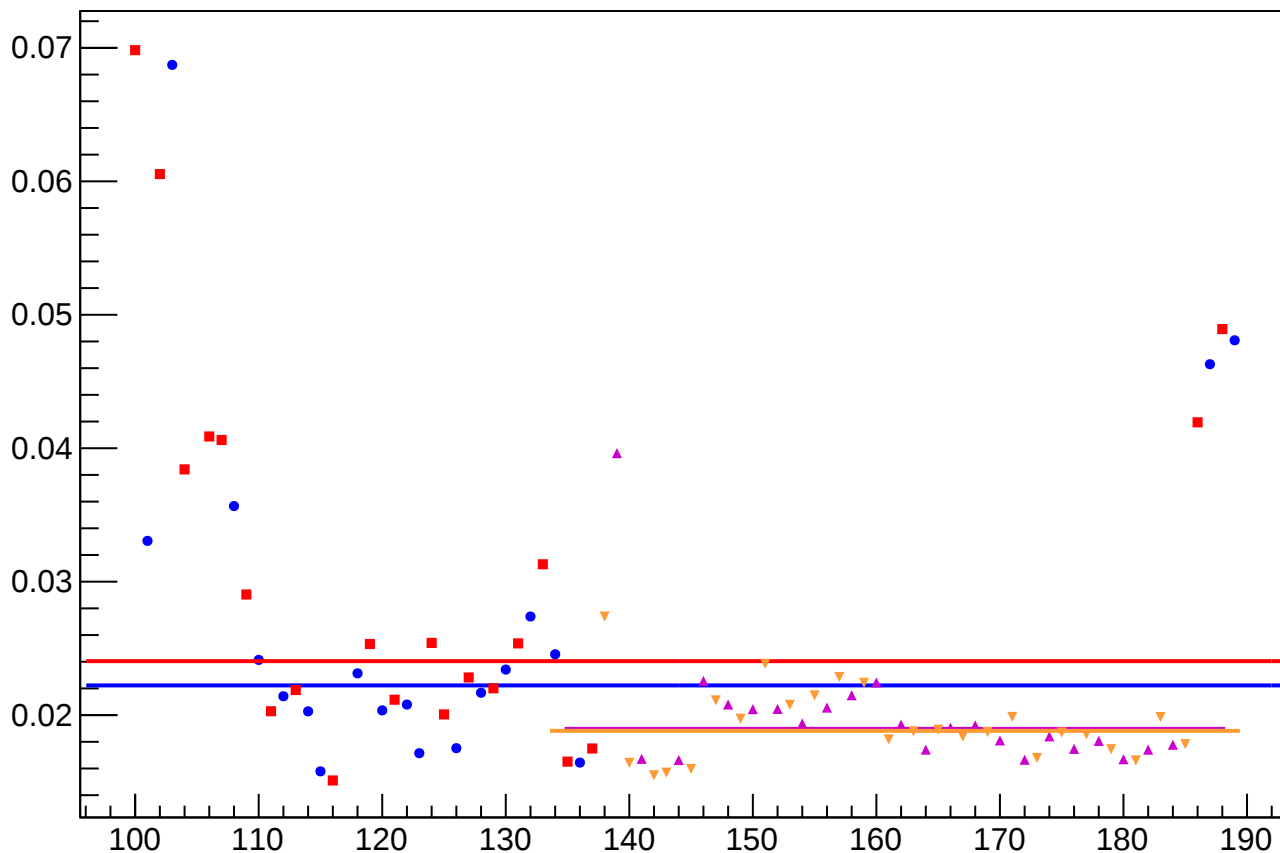
Right: -1.019+/-0.000 χ^2/NDF : 939259124.7/39

In: -0.884+/-0.000 χ^2/NDF :863473788.3/41

Out: -0.889+/-0.000 χ^2/NDF :1011395162.6/45

All: -0.886+/-0.000 χ^2/NDF : 1875461037.4/8

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: 0.024+/-0.000 χ^2/NDF : 1741982.5/20

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

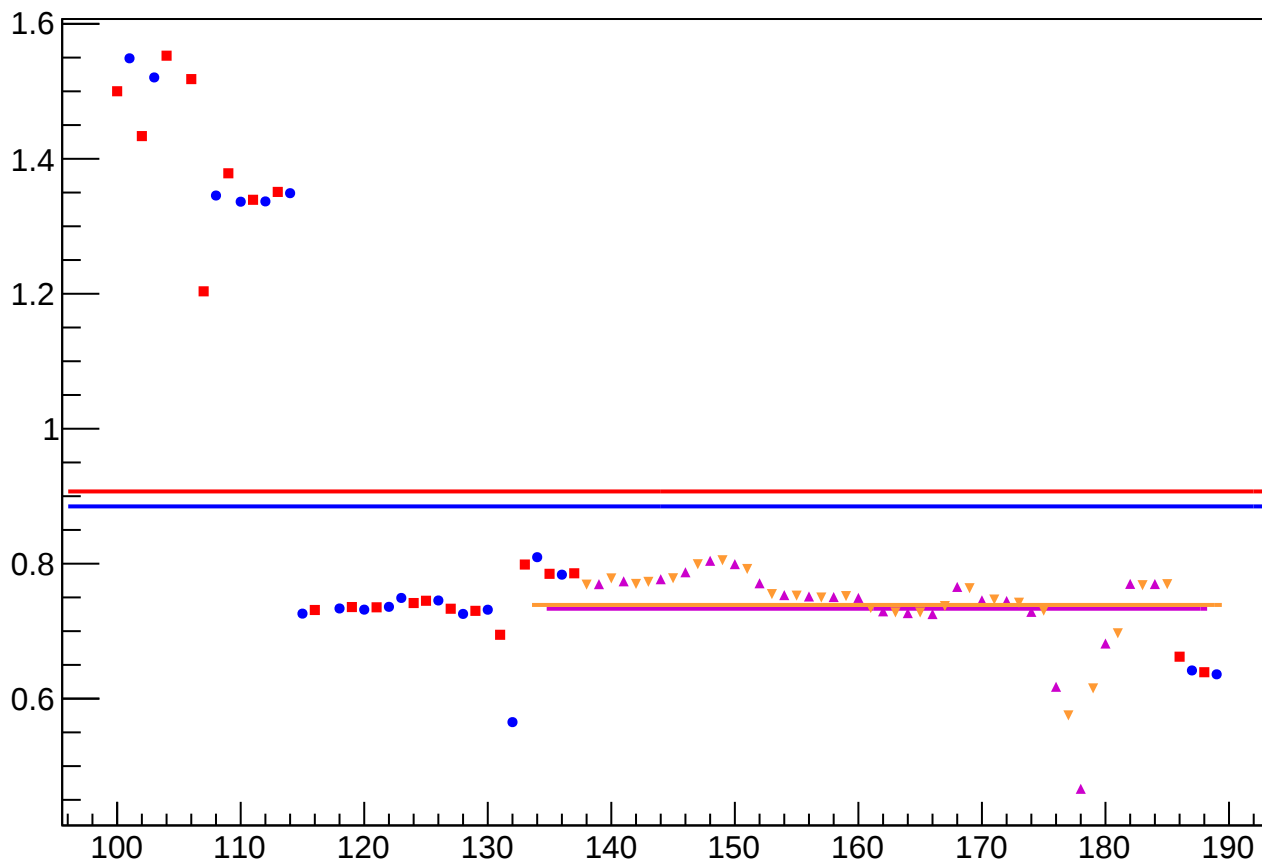
Right: 0.023+/-0.000 χ^2/NDF : 3105703.3/39

In: 0.020+/-0.000 χ^2/NDF : 2126678.2/41

Out: 0.020+/-0.000 χ^2/NDF : 2698241.2/45

All: 0.020+/-0.000 χ^2/NDF : 4826850.1/87

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: 0.907 $\pm$ 0.000 χ^2 /NDF: 2599169700.9/20

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

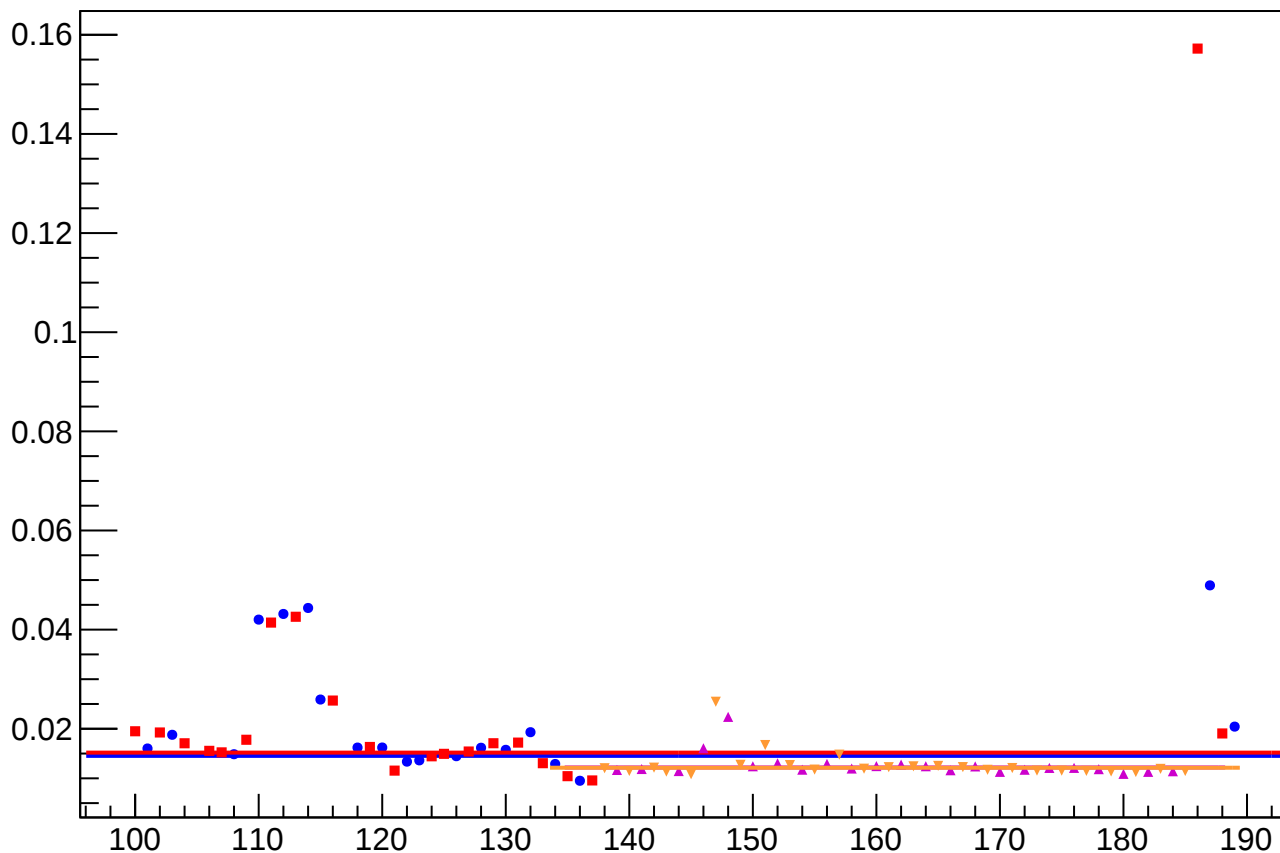
Right: 0.896 $\pm$ 0.000 χ^2 /NDF: 5071724943.4/39

In: 0.764 $\pm$ 0.000 χ^2 /NDF:3561313658.4/41

Out: 0.772 $\pm$ 0.000 χ^2 /NDF:3602378606.3/45

All: 0.768 $\pm$ 0.000 χ^2 /NDF: 7168405277.5/87

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 : 1928999.4/20

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

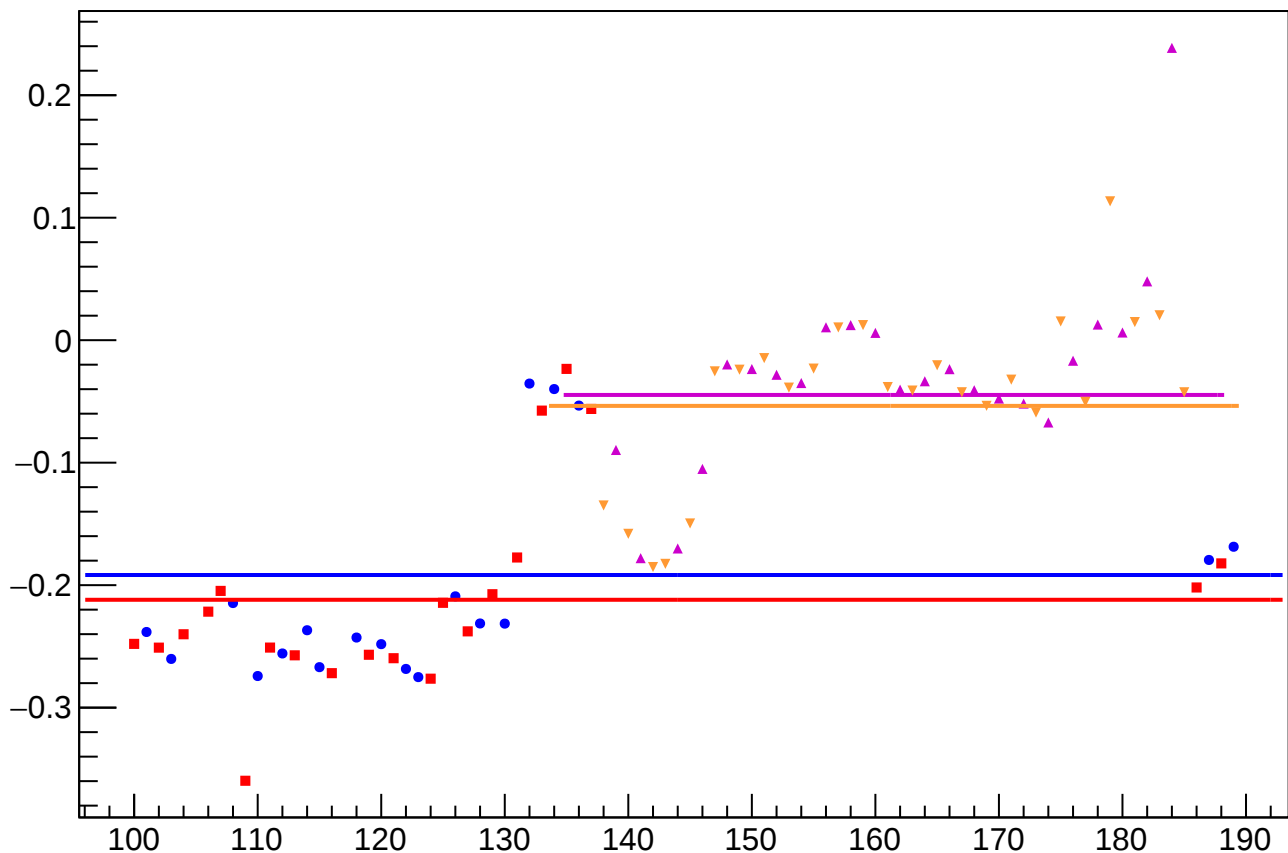
Right: 0.015+/-0.000 χ^2/NDF : 3564182.0/39

In: 0.013+/-0.000 χ^2/NDF : 2355630.5/41

Out: 0.013+/-0.000 χ^2/NDF : 3007509.4/45

All: 0.013+/-0.000 χ^2/NDF : 5363965.6/87

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192+/-0.000 χ^2/NDF : 106288927.3/18

Left Out: -0.054+/-0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.212+/-0.000 χ^2/NDF : 110836272.5/20

Left In: -0.045+/-0.000 χ^2/NDF : 127192425.2/22

Left: -0.049+/-0.000 χ^2/NDF : 296566503.6/47

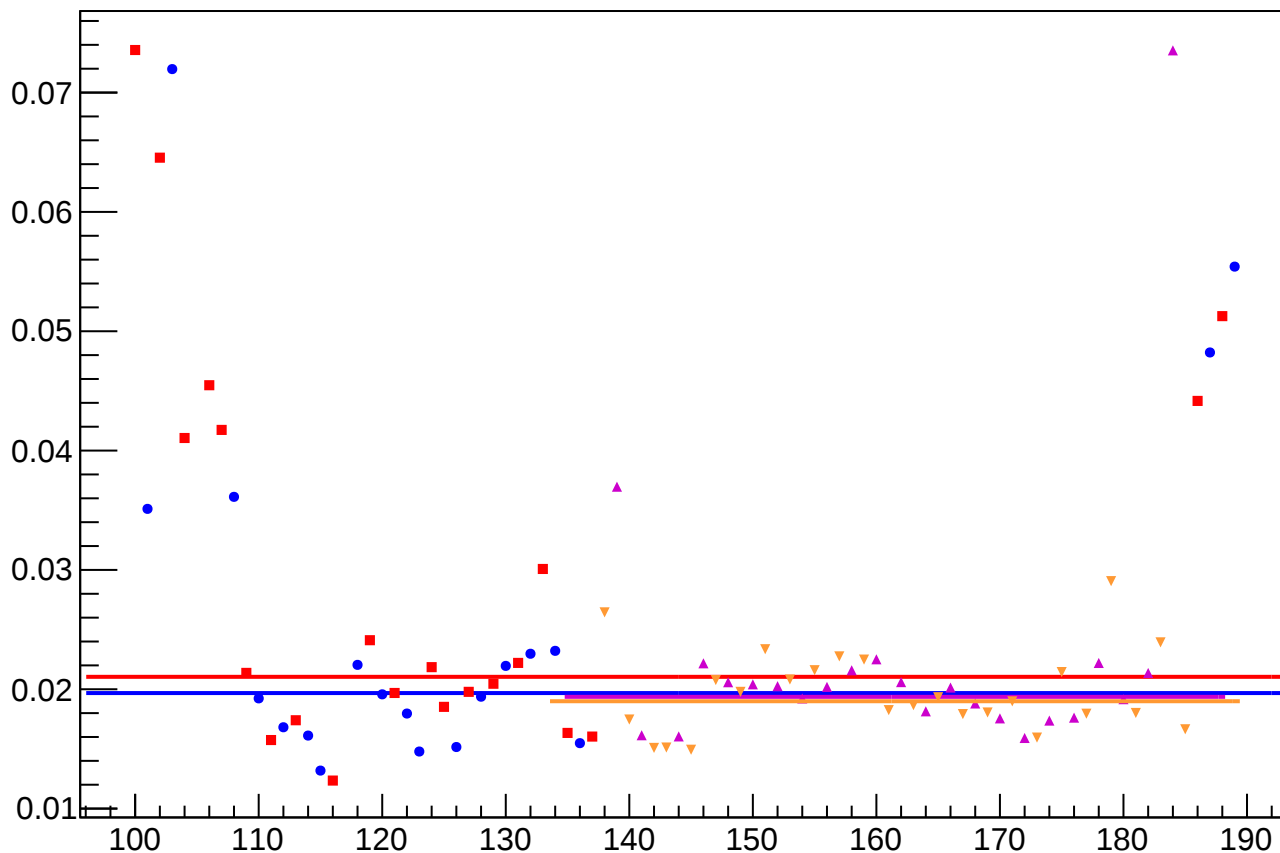
Right: -0.202+/-0.000 χ^2/NDF : 219917808.6/39

In: -0.085+/-0.000 χ^2/NDF : 450947331.2/41

Out: -0.093+/-0.000 χ^2/NDF : 531968557.8/45

All: -0.089+/-0.000 χ^2/NDF : 984766894.3/87

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 : 2258832.5/20

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

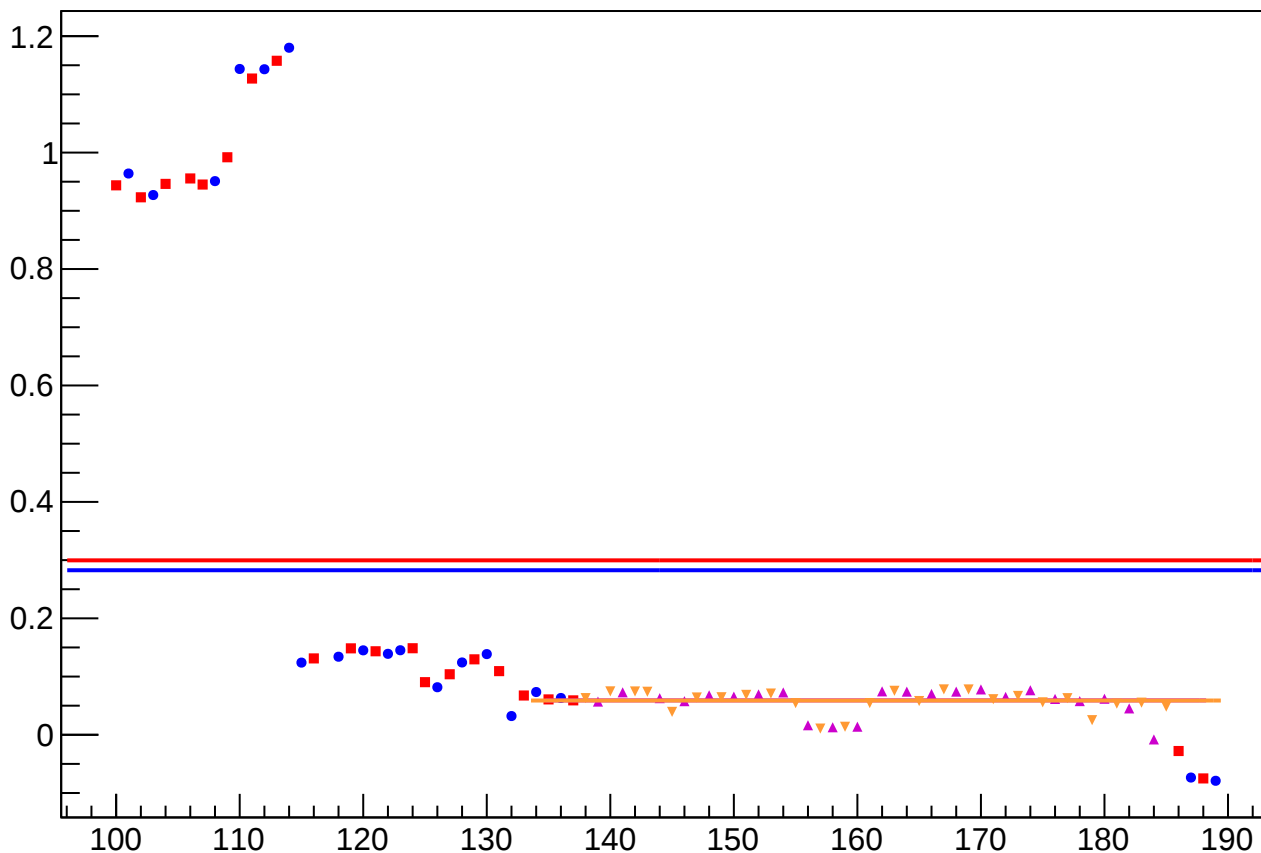
Right: 0.020+/-0.000 χ^2/NDF : 3947977.8/39

In: 0.019+/-0.000 χ^2/NDF : 2524087.5/41

Out: 0.020+/-0.000 χ^2/NDF : 3043688.0/45

All: 0.019+/-0.000 χ^2/NDF : 5567940.2/87

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: 0.300+/-0.000 χ^2/NDF : 6093091540.1/20

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

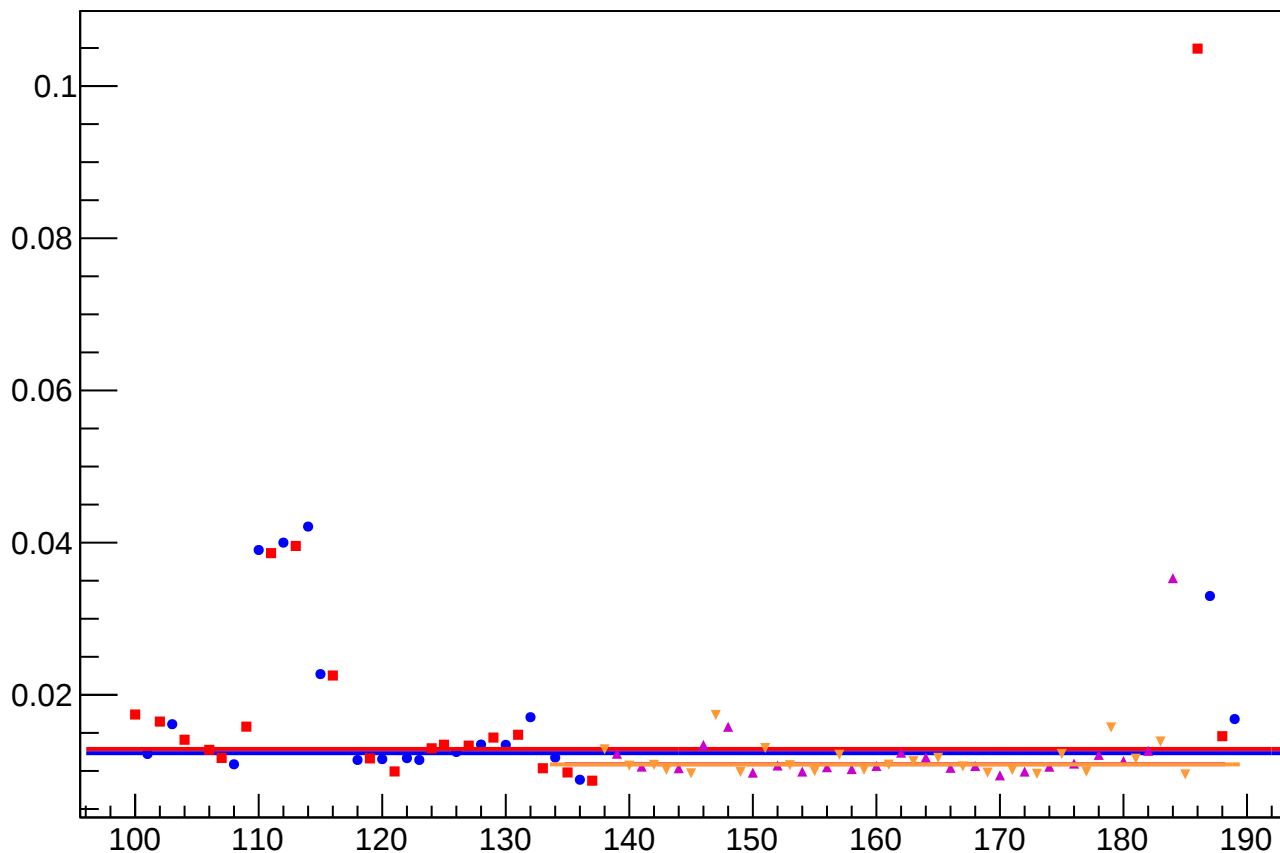
Right: 0.291+/-0.000 χ^2/NDF : 11516329219.9/39

In: 0.110+/-0.000 χ^2/NDF : 7035101725.8/41

Out: 0.112+/-0.000 χ^2/NDF : 7983319691.6/45

All: 0.111+/-0.000 χ^2/NDF : 15018657362.6/86

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: 1811130.6/20

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

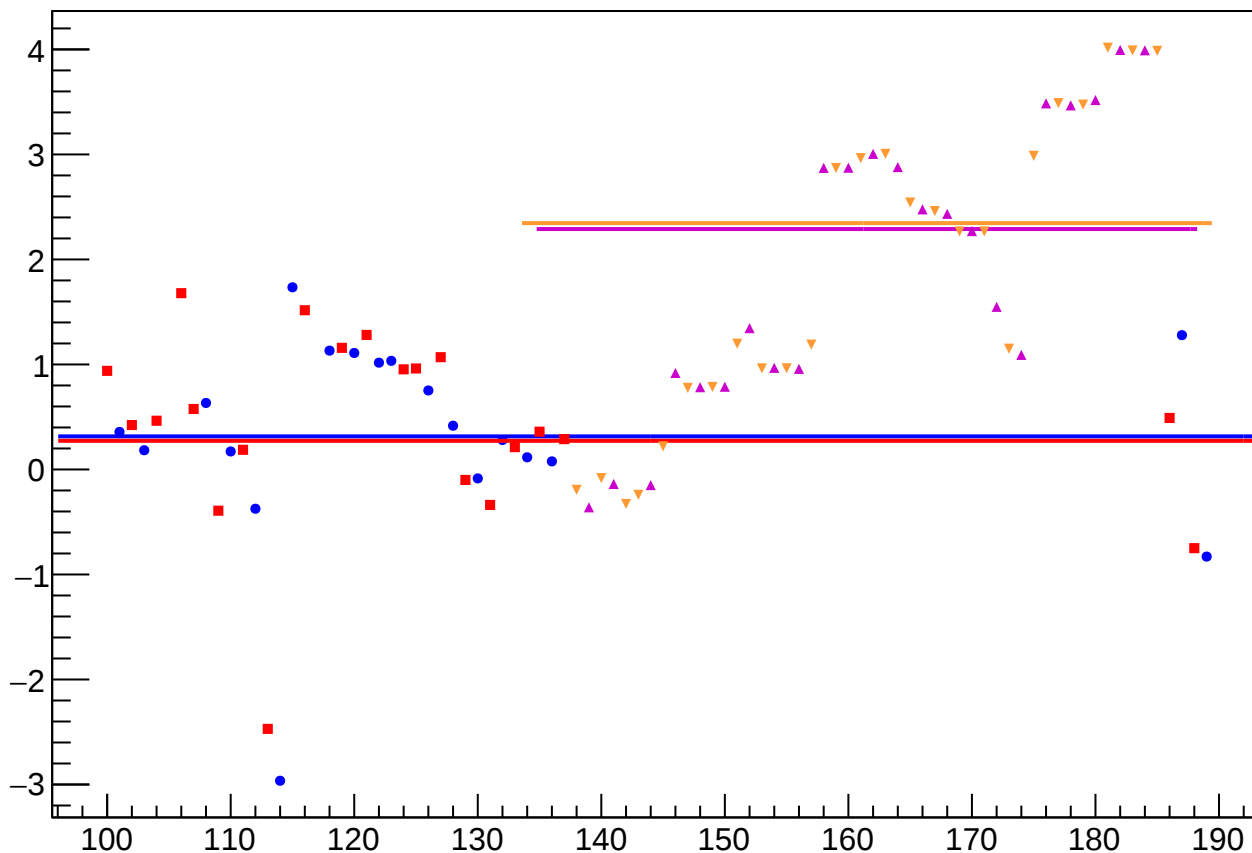
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3281128.0/39

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2117395.3/41

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2677944.8/45

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4796694.3/87

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.315 $\pm$ 0.000 χ^2/NDF : 531791174.5/18

Left Out: 2.346 $\pm$ 0.000 χ^2/NDF :63481331015.4/24

Right Out: 0.273 $\pm$ 0.000 χ^2/NDF : 1478513246.5/20

Left In: 2.290 $\pm$ 0.000 χ^2/NDF :60875537647.3/22

Left: 2.318 $\pm$ 0.000 χ^2/NDF : 124438674298.4/47

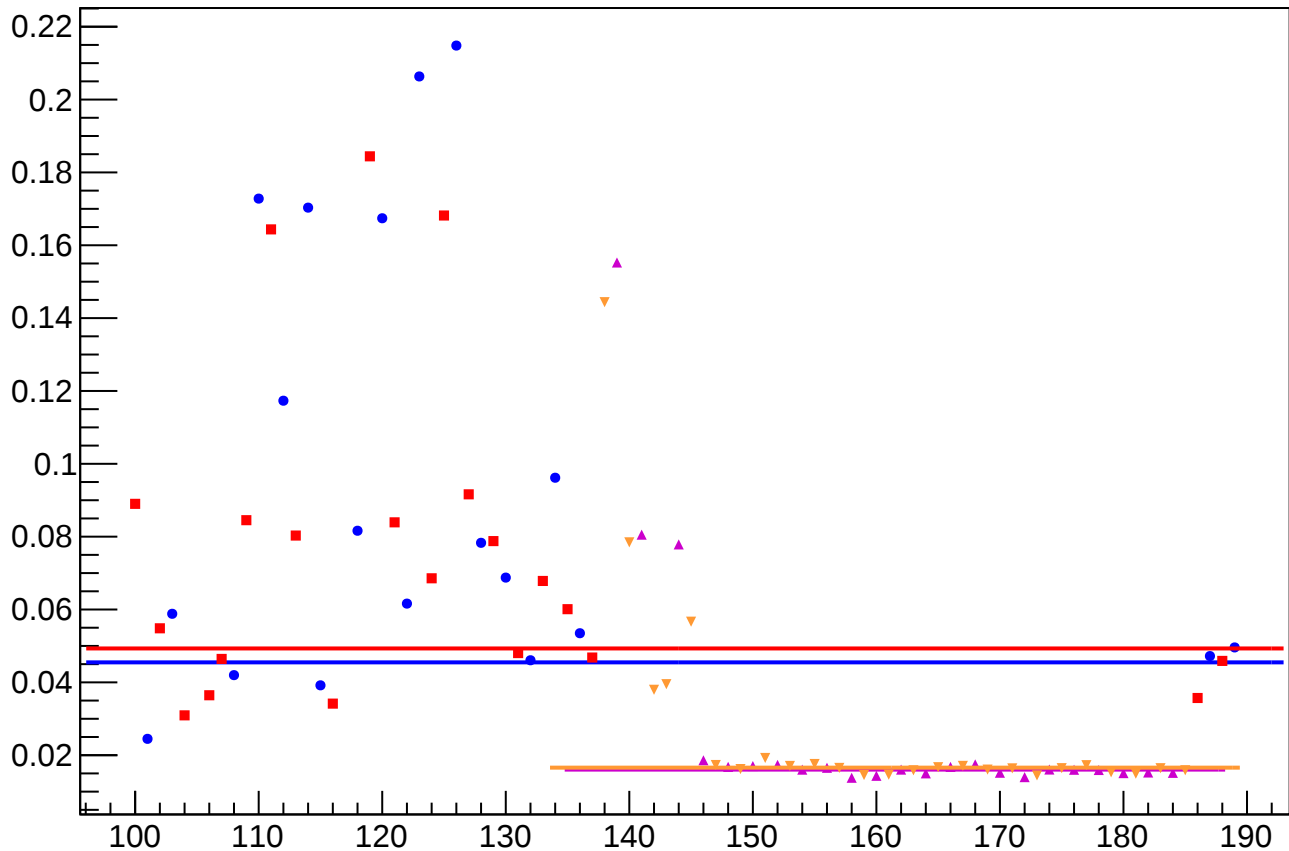
Right: 0.293 $\pm$ 0.000 χ^2/NDF : 2012122280.0/39

In: 2.217 $\pm$ 0.000 χ^2/NDF :68835030565.3/41

Out: 2.262 $\pm$ 0.000 χ^2/NDF :73777442356.7/45

All: 2.240 $\pm$ 0.000 χ^2/NDF : 142667784352.5

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: 0.049+/-0.000 χ^2/NDF : 2314371.3/20

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

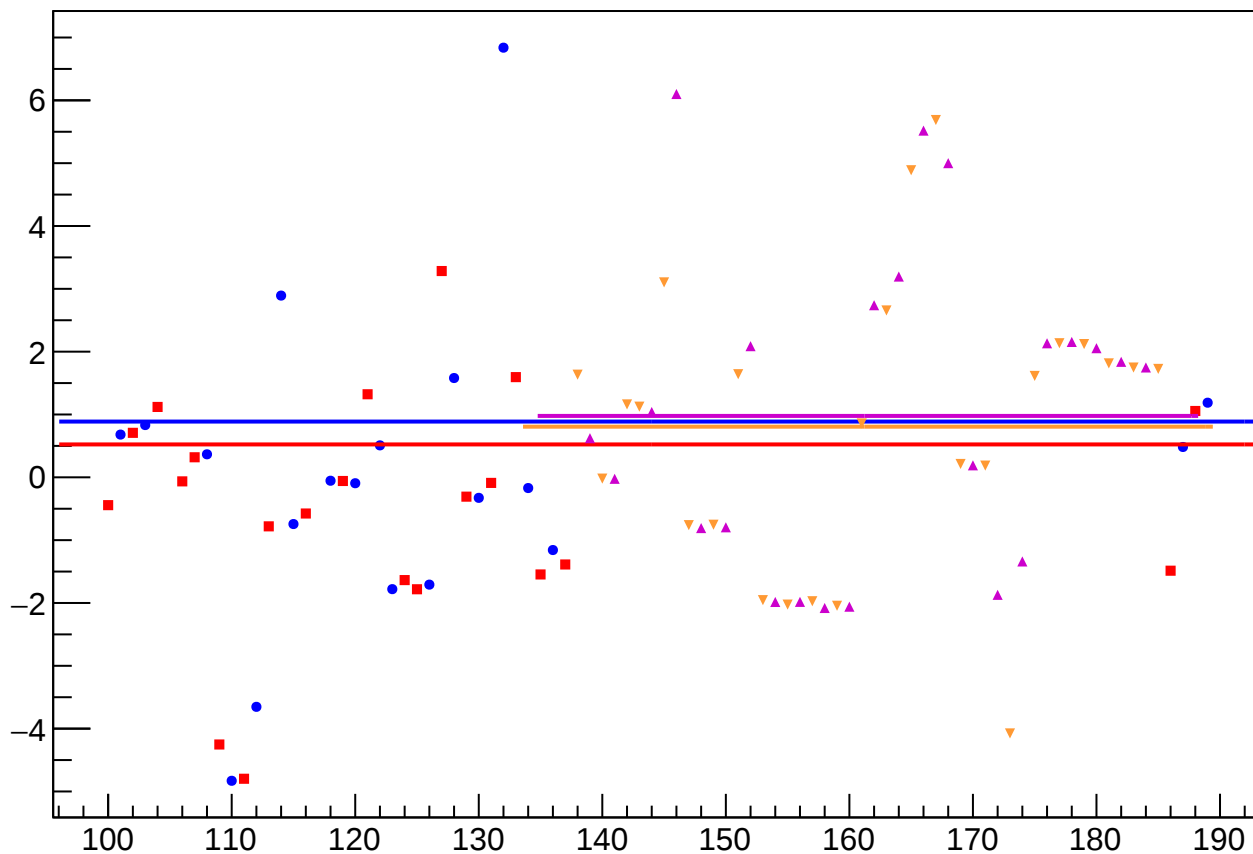
Right: 0.047+/-0.000 χ^2/NDF : 5181695.6/39

In: 0.017+/-0.000 χ^2/NDF : 8534522.4/41

Out: 0.018+/-0.000 χ^2/NDF : 9329438.3/45

All: 0.018+/-0.000 χ^2/NDF : 17896007.3/87

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.887 ± 0.000 $\chi^2/\text{NDF}: 11027125255.4/18$

Left Out: 0.806 ± 0.000 $\chi^2/\text{NDF}: 507578952196.2/24$

Right Out: 0.523 ± 0.000 $\chi^2/\text{NDF}: 5364077646.9/20$

Left In: 0.977 ± 0.000 $\chi^2/\text{NDF}: 568209676597.4/22$

Left: 0.892 ± 0.000 $\chi^2/\text{NDF}: 1077036497291.8/47$

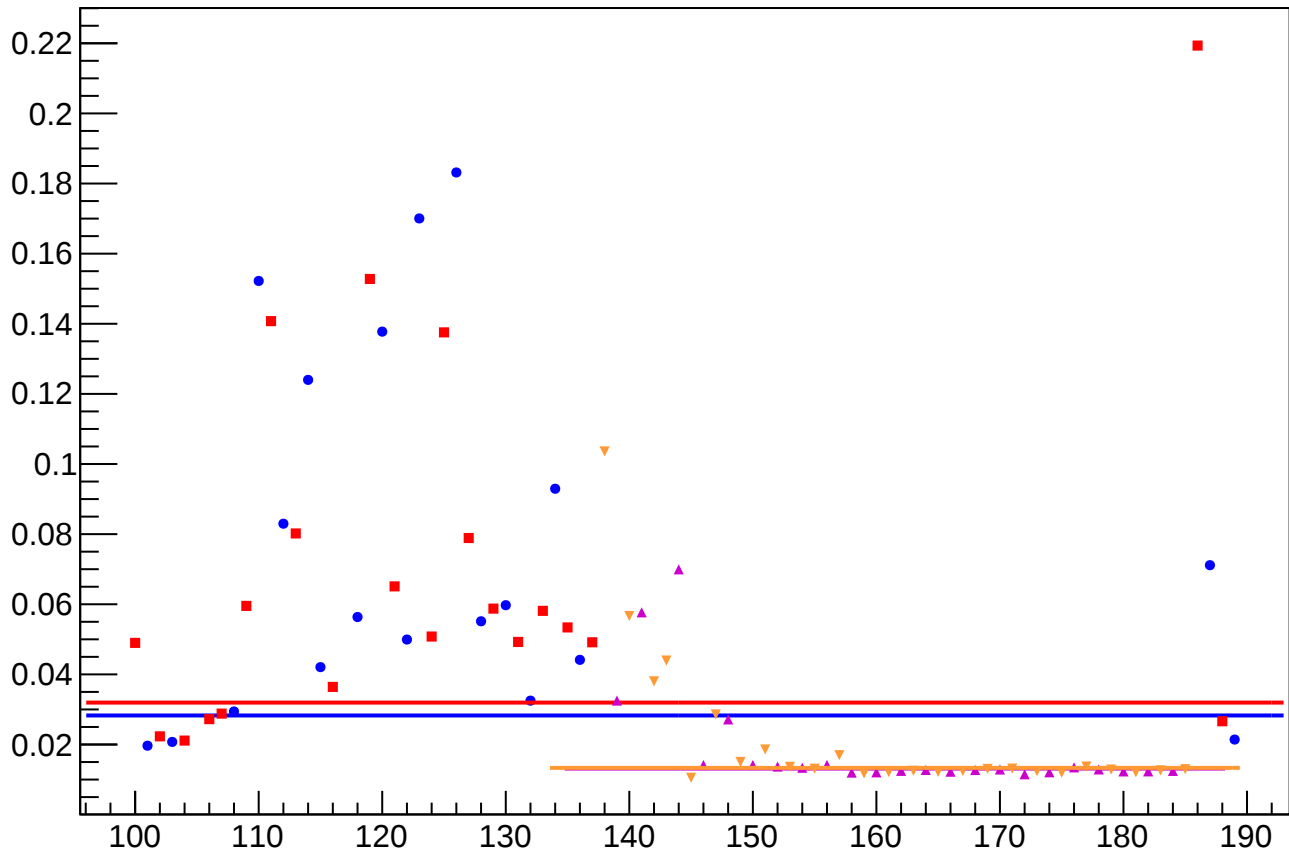
Right: 0.711 ± 0.000 $\chi^2/\text{NDF}: 16698821603.6/39$

In: 0.973 ± 0.000 $\chi^2/\text{NDF}: 579273470668.9/41$

Out: 0.792 ± 0.000 $\chi^2/\text{NDF}: 513285440619.6/45$

All: 0.882 ± 0.000 $\chi^2/\text{NDF}: 1094024968829.$

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 3222080.0/18

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2829753.9/24

Right Out: 0.032 $\pm$ 0.000 χ^2 /NDF: 3656743.1/20

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1946693.6/22

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 4779900.3/47

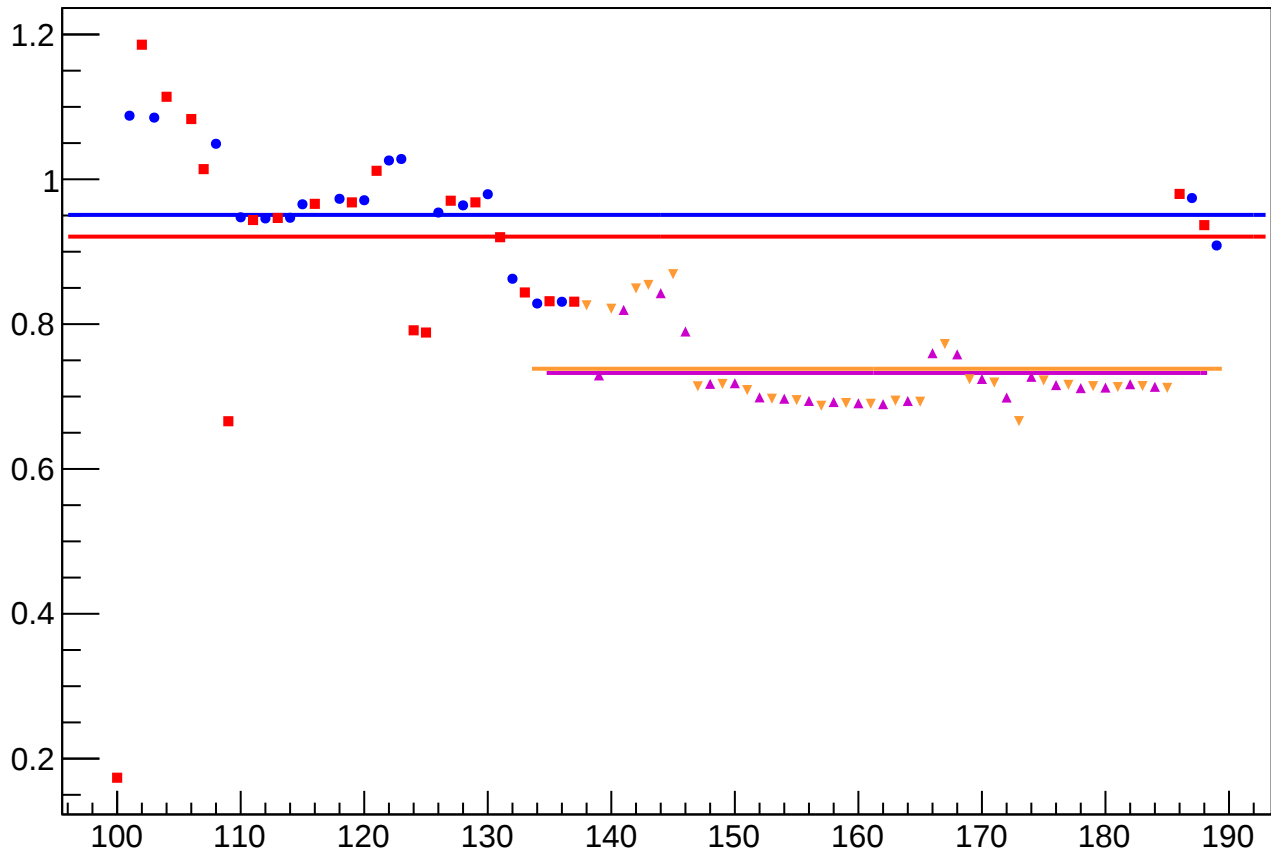
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 6941567.0/39

In: 0.014 $\pm$ 0.000 χ^2 /NDF:7245095.1/41

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:9461053.3/45

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 16716340.6/87

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.951 $\pm$ 0.000 χ^2/NDF : 175204395.5/18

Left Out: 0.738 $\pm$ 0.000 χ^2/NDF :310195180.4/24

Right Out: 0.921 $\pm$ 0.000 χ^2/NDF : 377008386.1/20

Left In: 0.733 $\pm$ 0.000 χ^2/NDF :170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 481708989.2/47

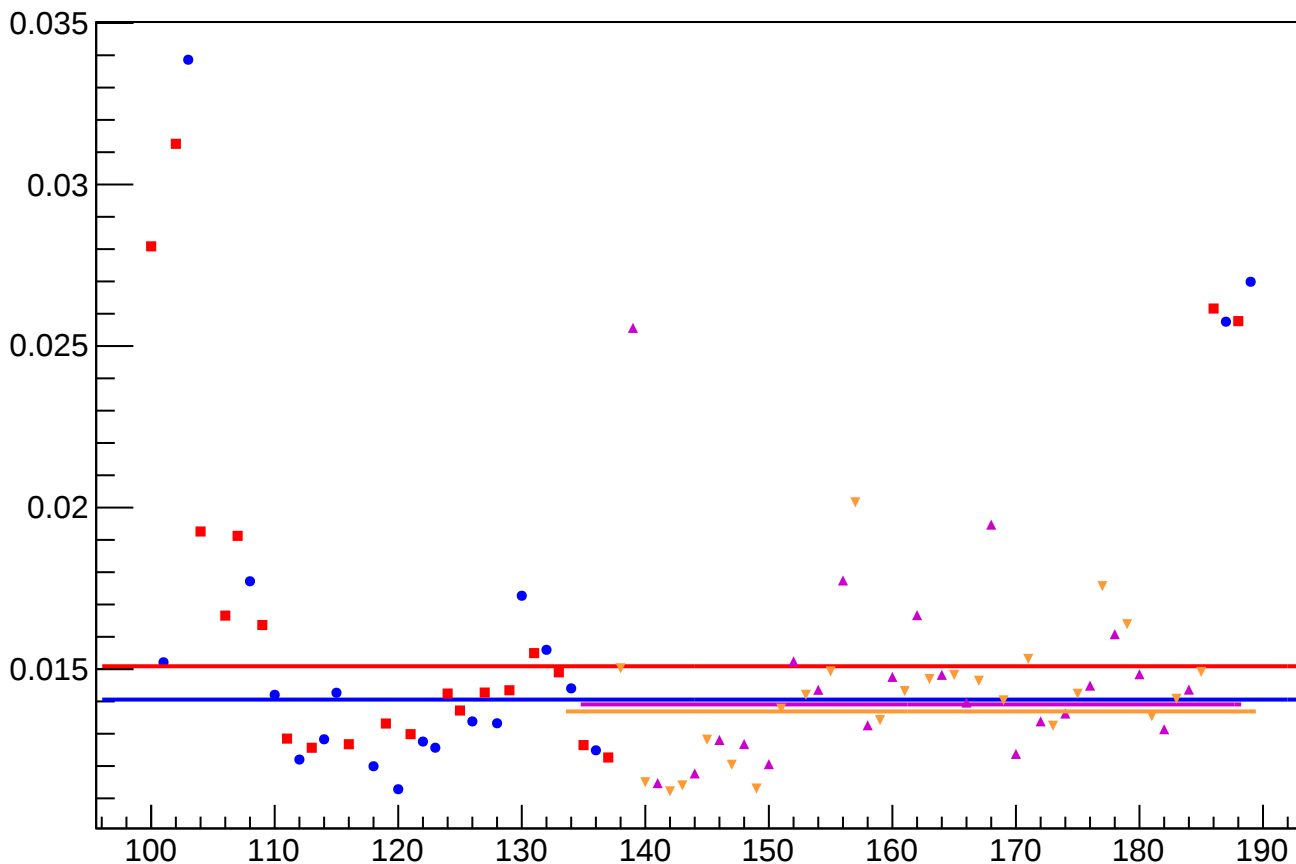
Right: 0.936 $\pm$ 0.000 χ^2/NDF : 566346813.2/39

In: 0.795 $\pm$ 0.000 χ^2/NDF :1425608579.6/41

Out: 0.787 $\pm$ 0.000 χ^2/NDF :1447789051.4/45

All: 0.791 $\pm$ 0.000 χ^2/NDF : 2876923115.4/87

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 821353.3/18

Left Out: 0.014 $\pm$ 0.000 χ^2/NDF : 528480.6/24

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 961106.7/20

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 768161.9/22

Left: 0.014 $\pm$ 0.000 χ^2/NDF : 1300553.4/47

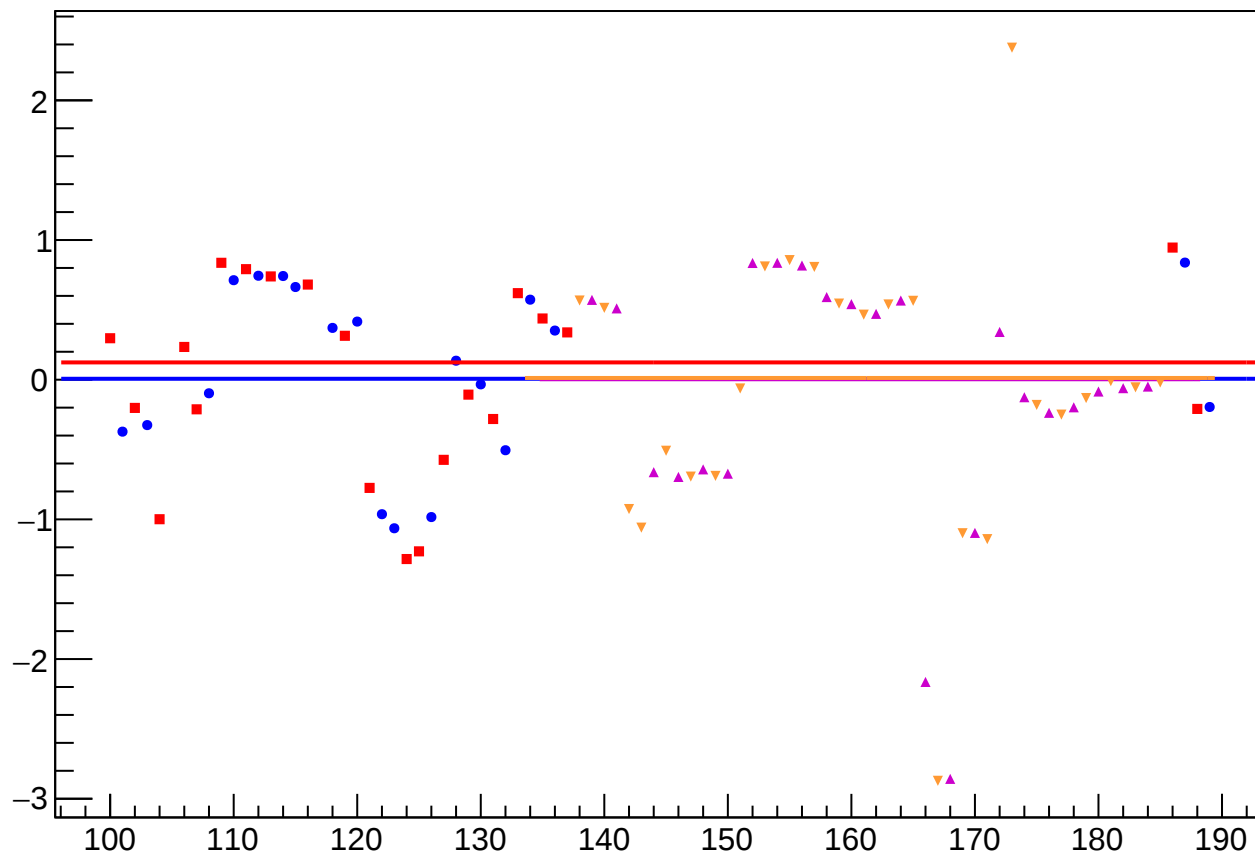
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 1815877.2/39

In: 0.014 $\pm$ 0.000 χ^2/NDF : 1590529.4/41

Out: 0.014 $\pm$ 0.000 χ^2/NDF : 1579018.0/45

All: 0.014 $\pm$ 0.000 χ^2/NDF : 3170949.5/87

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6457076370.9/18

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: 0.124+/-0.000 χ^2/NDF : 13038920858.3/20

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

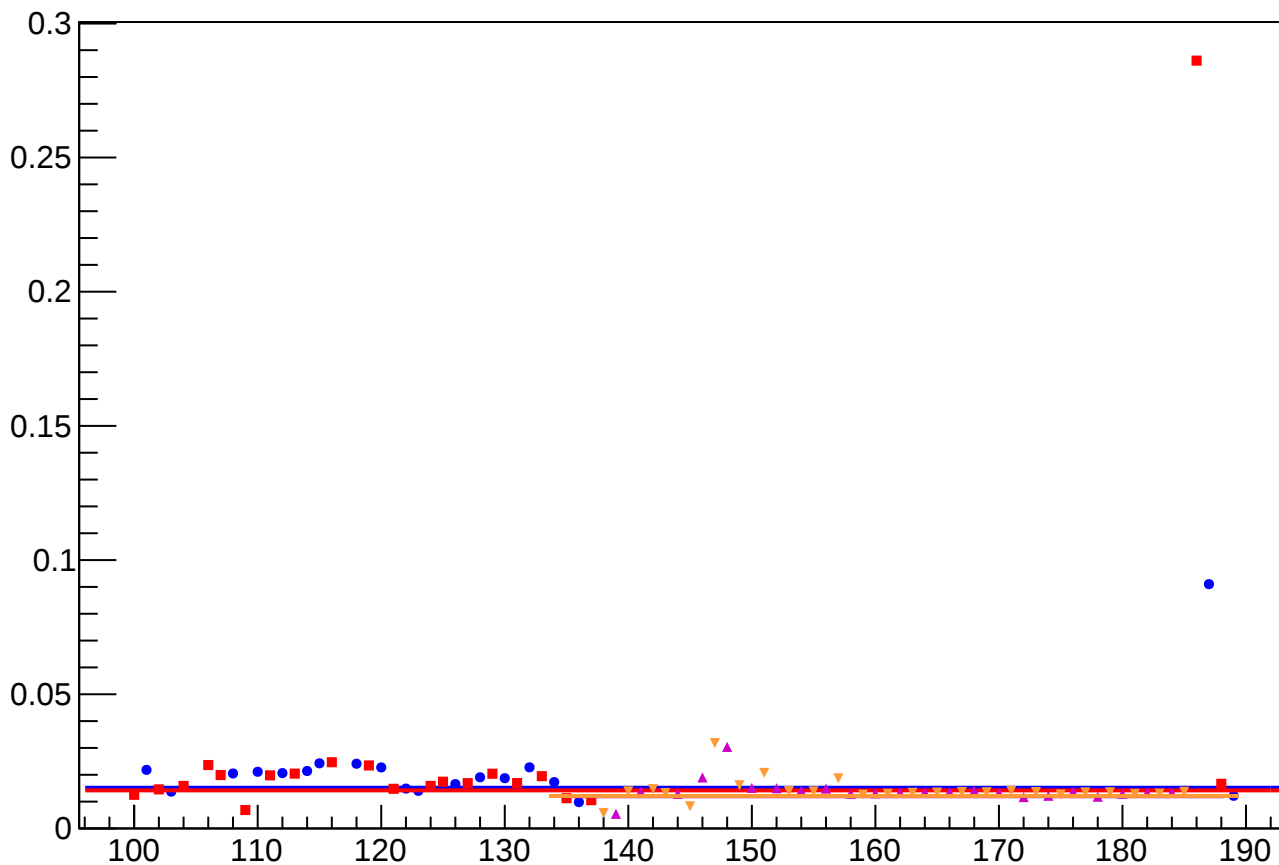
Right: 0.070+/-0.000 χ^2/NDF : 19689994757.5/39

In: 0.004+/-0.000 χ^2/NDF : 85283815441.5/41

Out: 0.037+/-0.000 χ^2/NDF : 109720005502.1/45

All: 0.021+/-0.000 χ^2/NDF : 195077350989.5

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1404426.2/18

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2219049.1/20

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

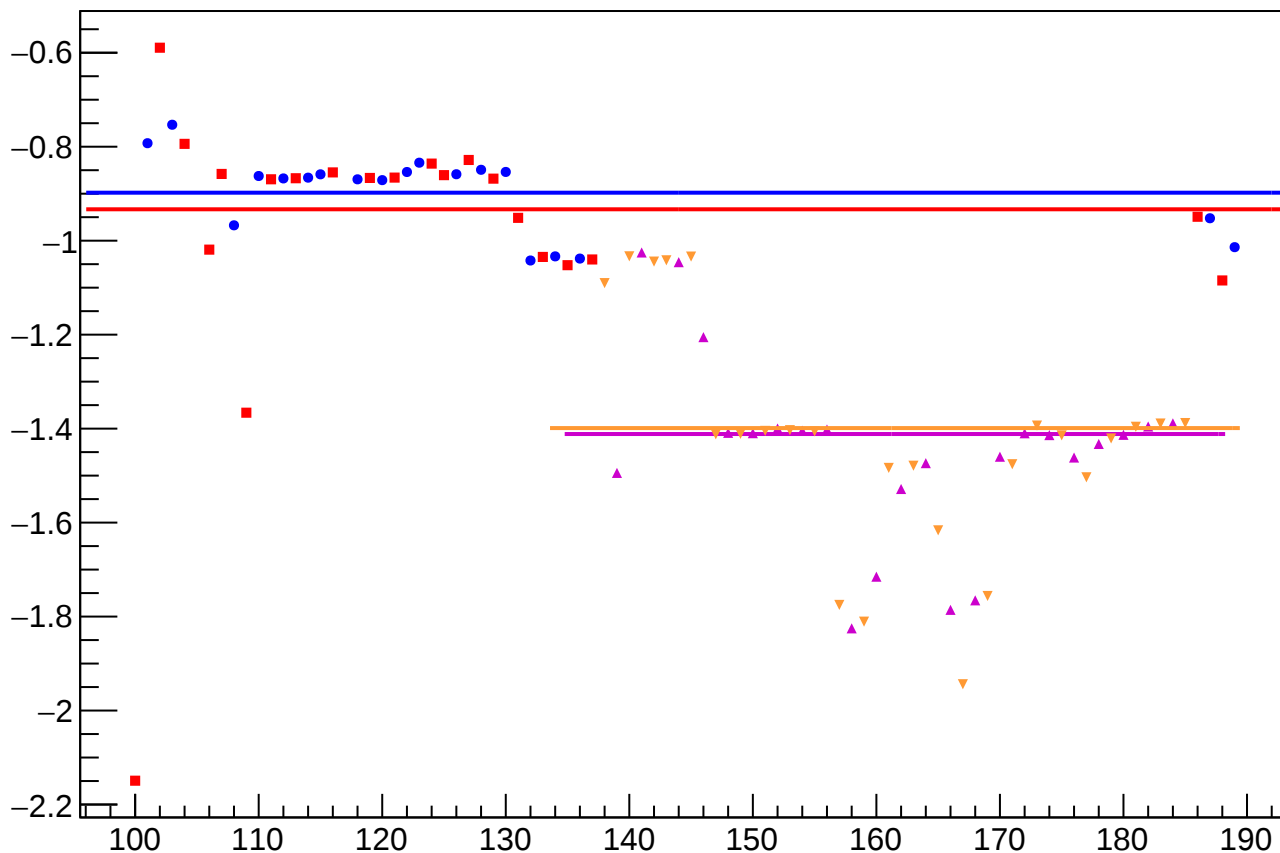
Right: 0.015+/-0.000 χ^2/NDF : 3650486.8/39

In: 0.013+/-0.000 χ^2/NDF :4829349.9/41

Out: 0.013+/-0.000 χ^2/NDF :5532672.4/45

All: 0.013+/-0.000 χ^2/NDF : 10362661.1/87

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.898 ± 0.000 $\chi^2/\text{NDF}: 39714991.8/18$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.933 ± 0.000 $\chi^2/\text{NDF}: 135197731.7/20$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

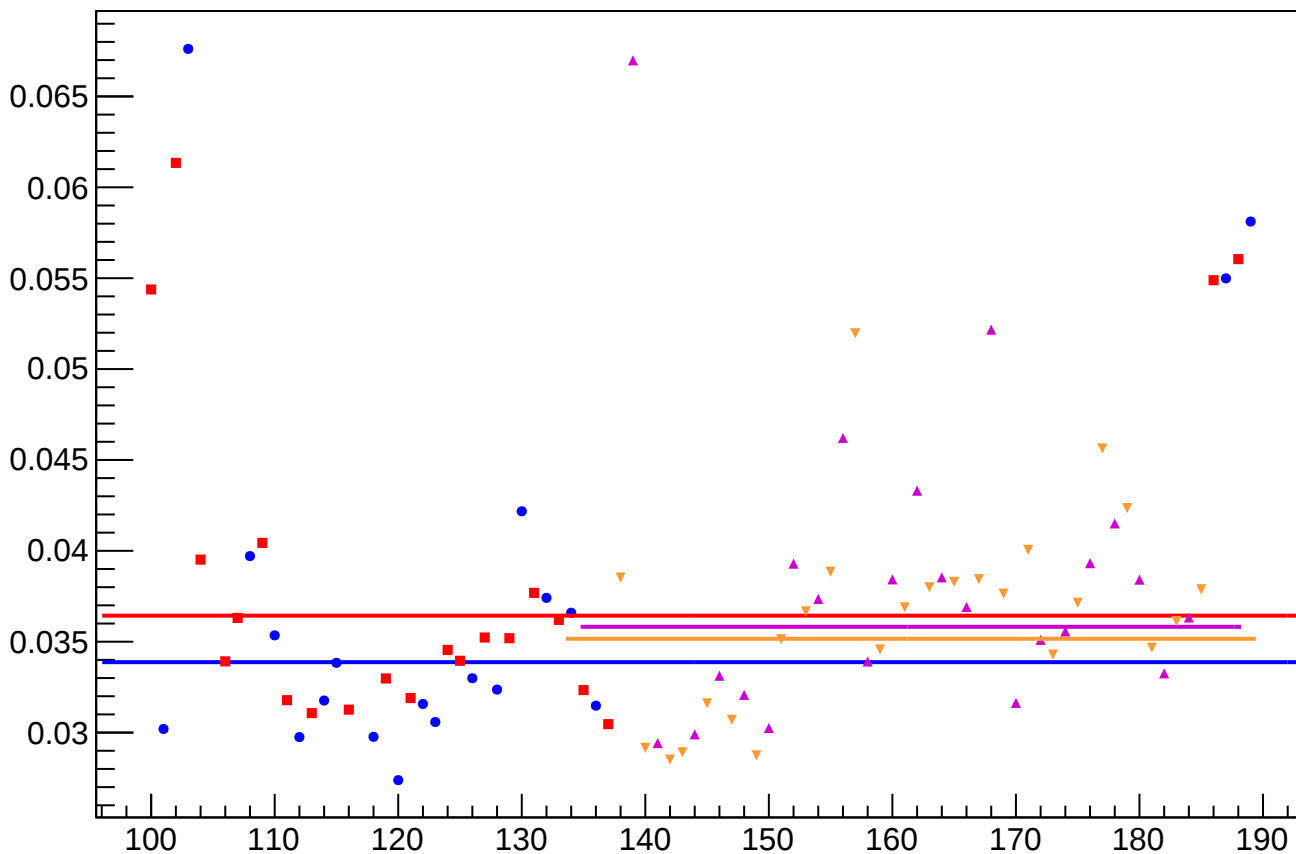
Right: -0.915 ± 0.000 $\chi^2/\text{NDF}: 178332892.0/39$

In: -1.249 ± 0.000 $\chi^2/\text{NDF}: 1547660740.9/41$

Out: -1.261 ± 0.000 $\chi^2/\text{NDF}: 1703136574.3/45$

All: -1.255 ± 0.000 $\chi^2/\text{NDF}: 3252248315.2/8$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.000 χ^2 /NDF: 613329.9/18

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.036 $\pm$ 0.000 χ^2 /NDF: 593218.3/20

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1464751.5/47

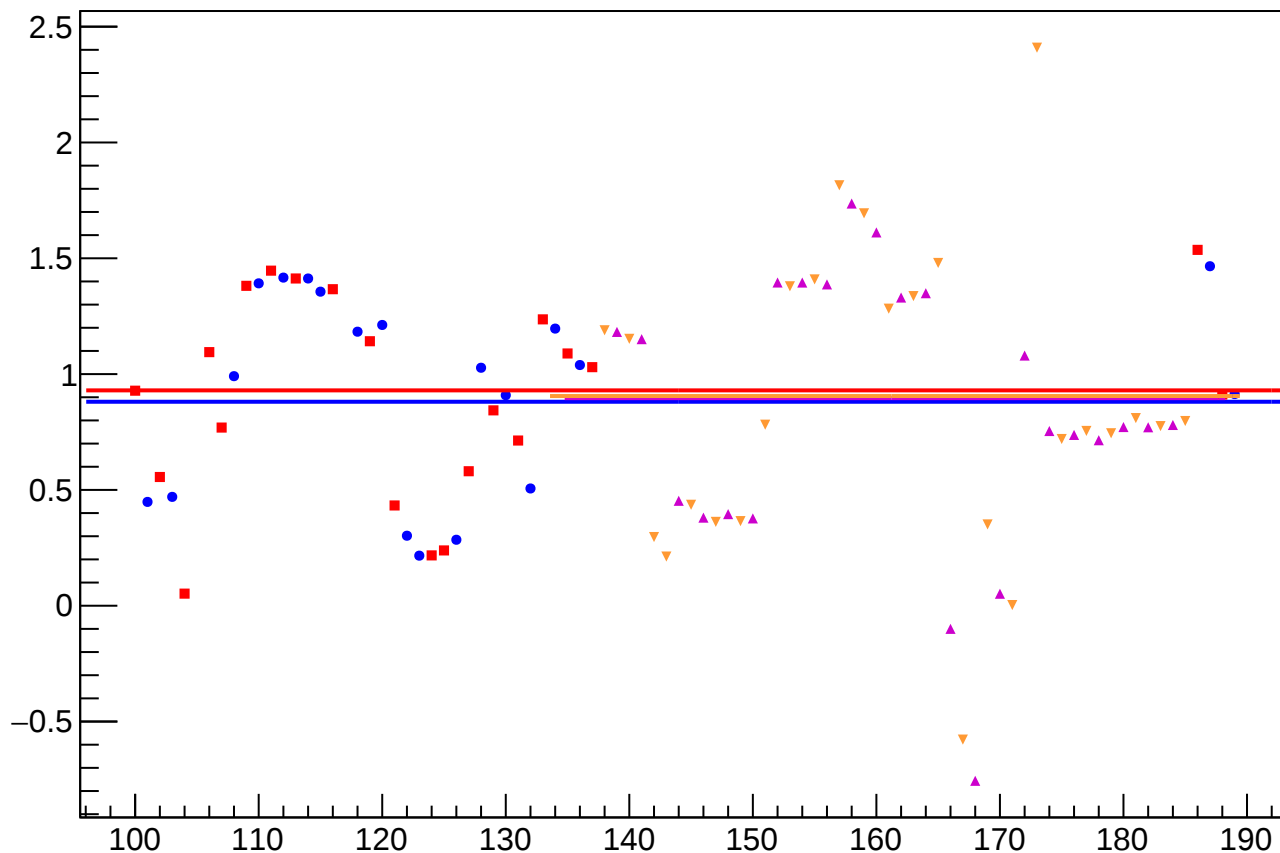
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 1242431.9/39

In: 0.035 $\pm$ 0.000 χ^2 /NDF:1506038.6/41

Out: 0.036 $\pm$ 0.000 χ^2 /NDF:1200839.3/45

All: 0.035 $\pm$ 0.000 χ^2 /NDF: 2708873.1/87

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.881+/-0.000 χ^2/NDF : 6511289589.0/18

Left Out: 0.905+/-0.000 χ^2/NDF : 84265726513.8/24

Right Out: 0.930+/-0.000 χ^2/NDF : 9967809778.4/20

Left In: 0.896+/-0.000 χ^2/NDF : 66594200889.6/22

Left: 0.901+/-0.000 χ^2/NDF : 150868618084.6/47

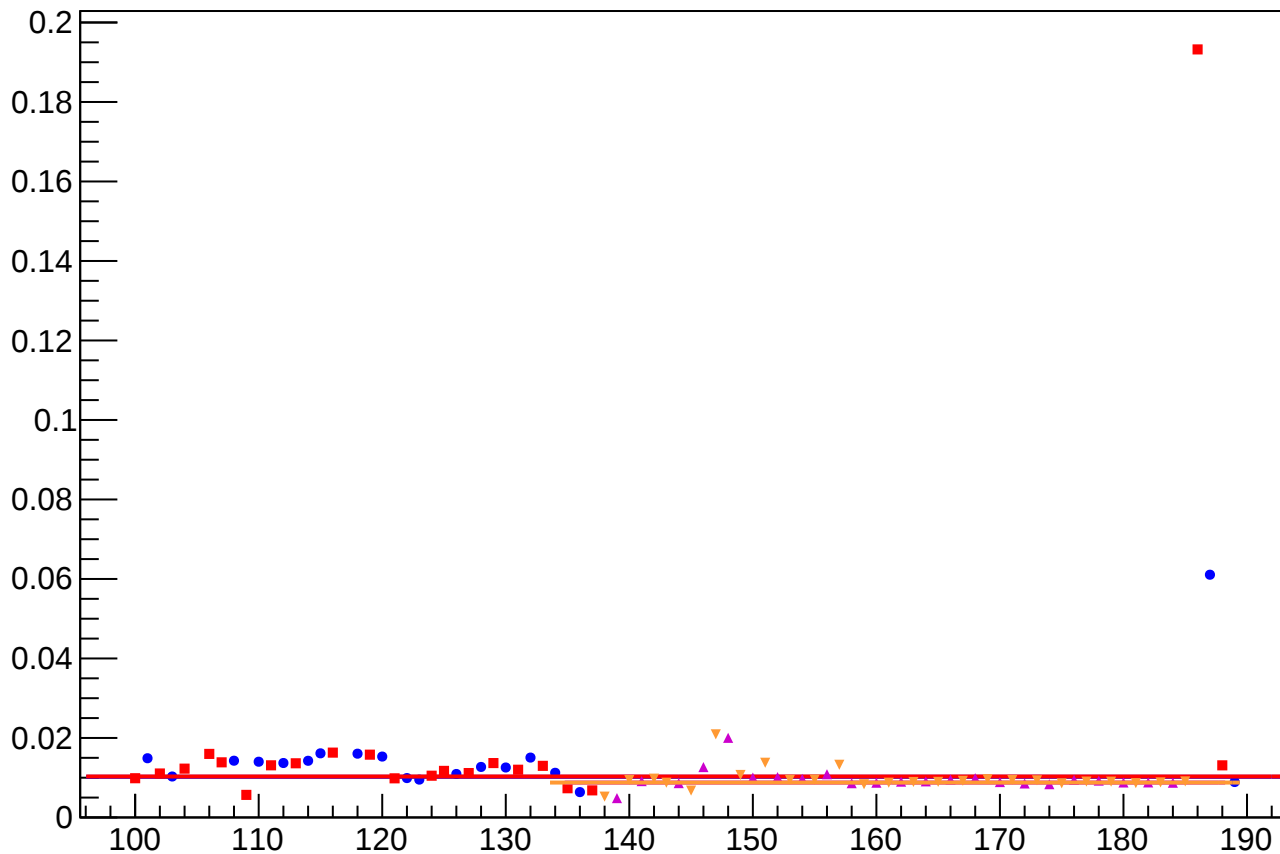
Right: 0.906+/-0.000 χ^2/NDF : 16550174081.1/39

In: 0.893+/-0.000 χ^2/NDF : 73116299180.6/41

Out: 0.911+/-0.000 χ^2/NDF : 94262048787.9/45

All: 0.902+/-0.000 χ^2/NDF : 167421130052.6

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 : 1866691.6/20

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

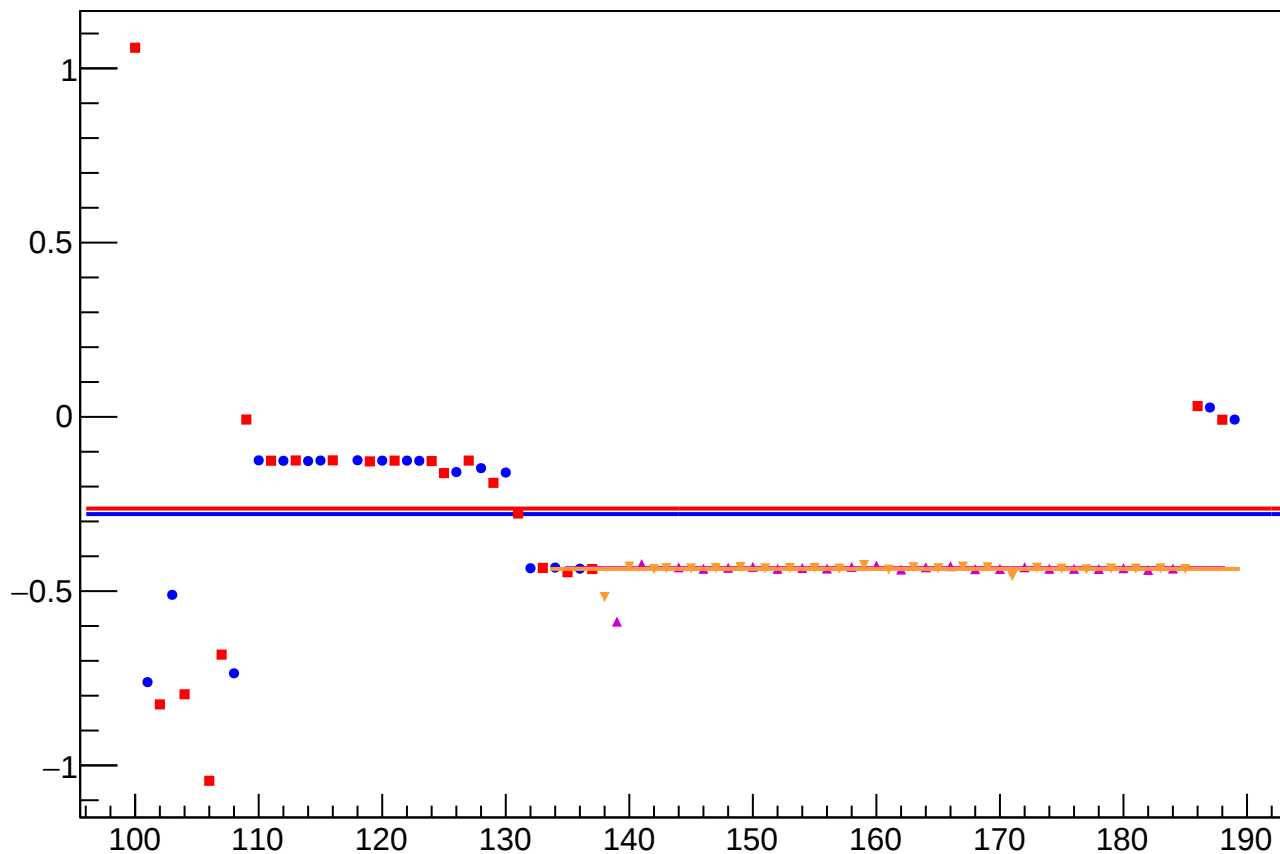
Right: 0.010+/-0.000 χ^2/NDF : 3307969.0/39

In: 0.009+/-0.000 χ^2/NDF :3238537.9/41

Out: 0.009+/-0.000 χ^2/NDF :3786008.2/45

All: 0.009+/-0.000 χ^2/NDF : 7024647.0/87

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 : 1011277557.5/20

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

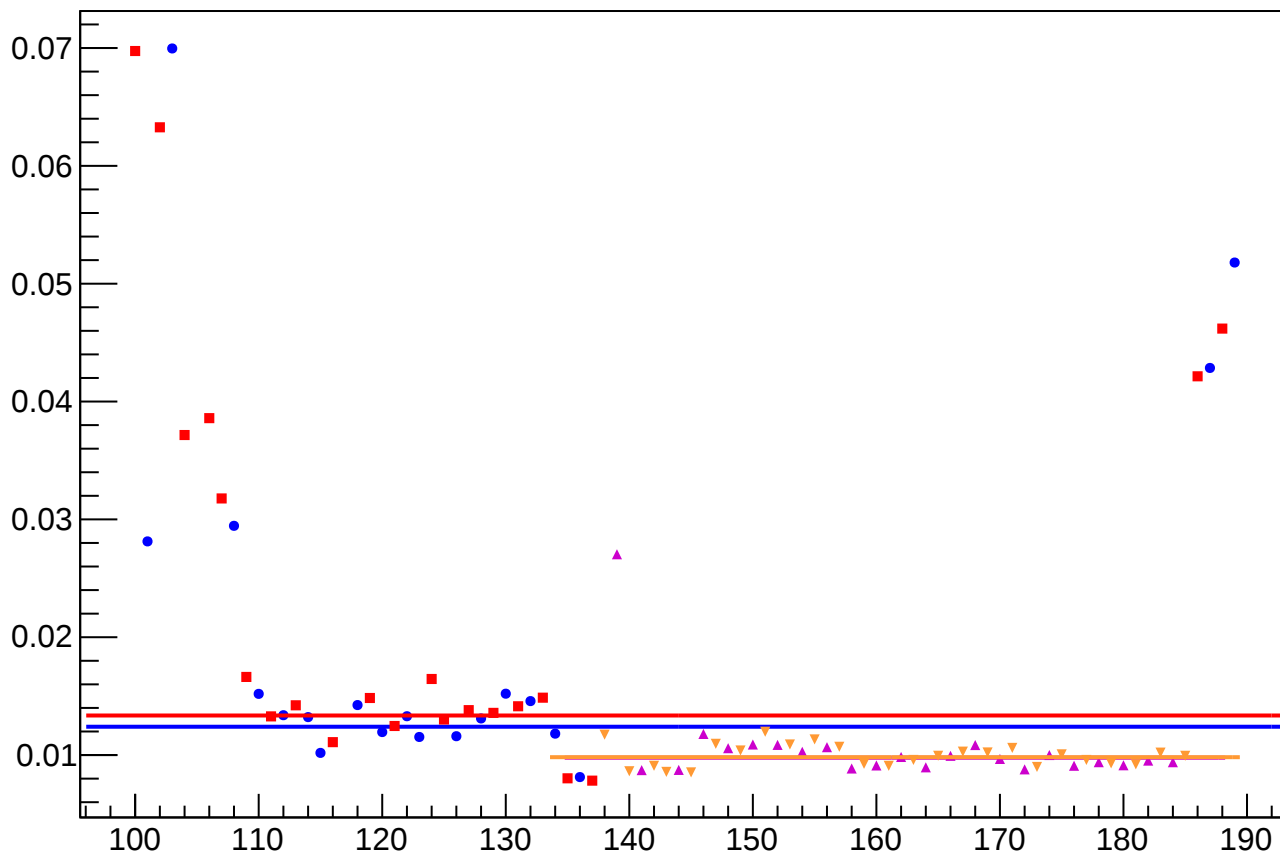
Right: -0.271+/-0.000 χ^2/NDF : 1940507733.7/39

In: -0.407+/-0.000 χ^2/NDF : 1589194179.7/41

Out: -0.409+/-0.000 χ^2/NDF : 1807337920.8/45

All: -0.408+/-0.000 χ^2/NDF : 3396869553.5/8

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: 0.013 $\pm$ 0.000 χ^2/NDF : 3176405.9/20

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

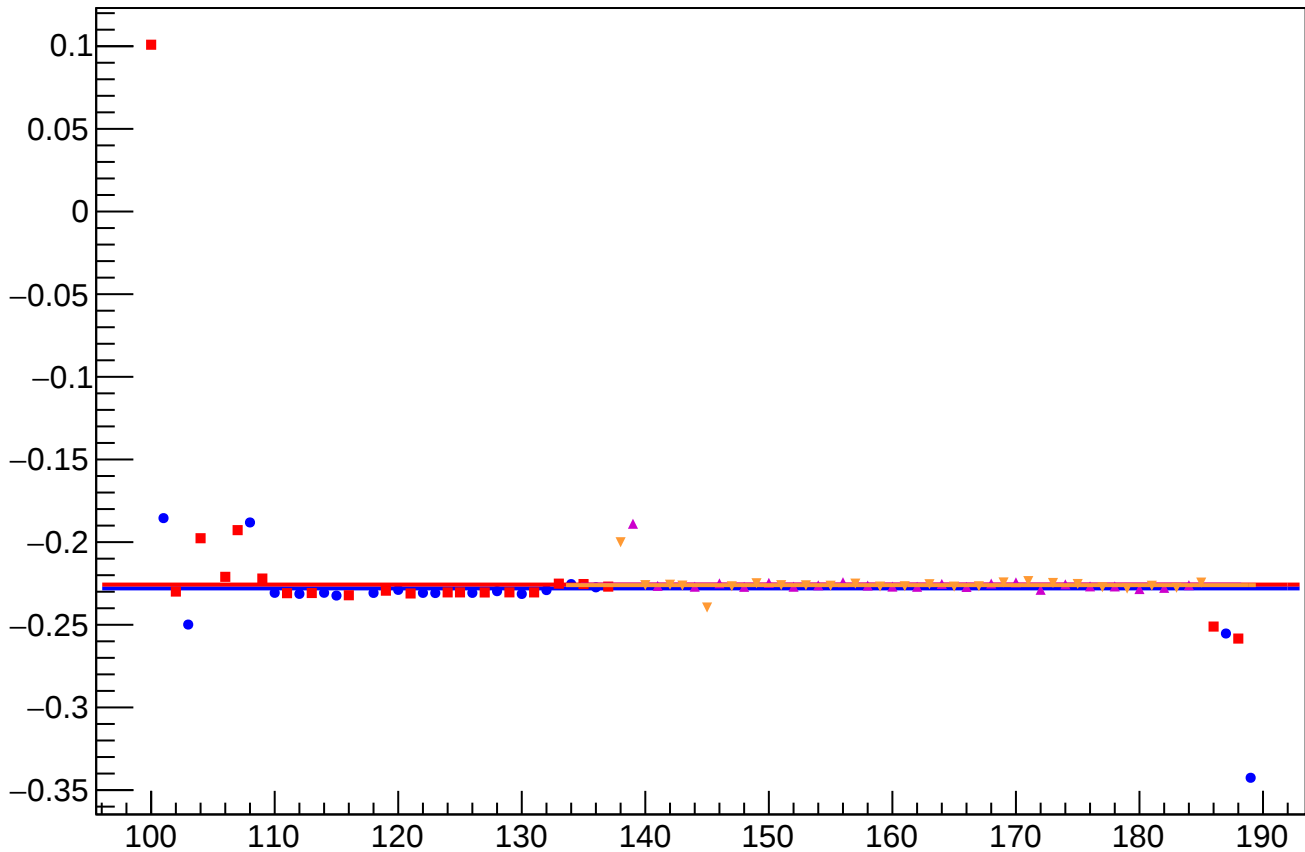
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 5583691.3/39

In: 0.010 $\pm$ 0.000 χ^2/NDF : 3494186.0/41

Out: 0.010 $\pm$ 0.000 χ^2/NDF : 4086221.8/45

All: 0.010 $\pm$ 0.000 χ^2/NDF : 7584364.1/87

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: -0.226+/-0.000 χ^2/NDF : 189344287.8/20

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

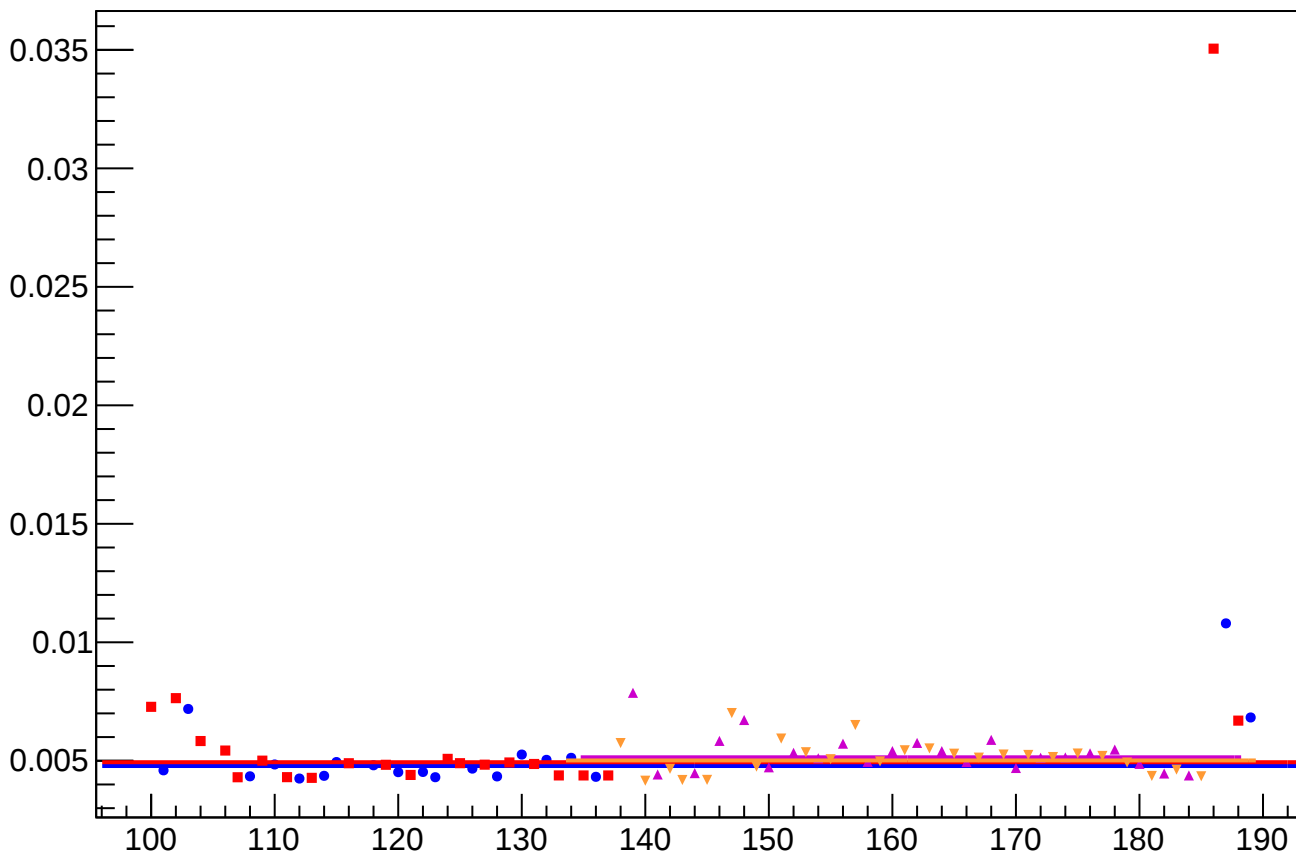
Right: -0.227+/-0.000 χ^2/NDF : 397722336.6/39

In: -0.226+/-0.000 χ^2/NDF : 223845011.8/41

Out: -0.226+/-0.000 χ^2/NDF : 210575813.3/45

All: -0.226+/-0.000 χ^2/NDF : 434549903.5/87

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 : 901287.8/20

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

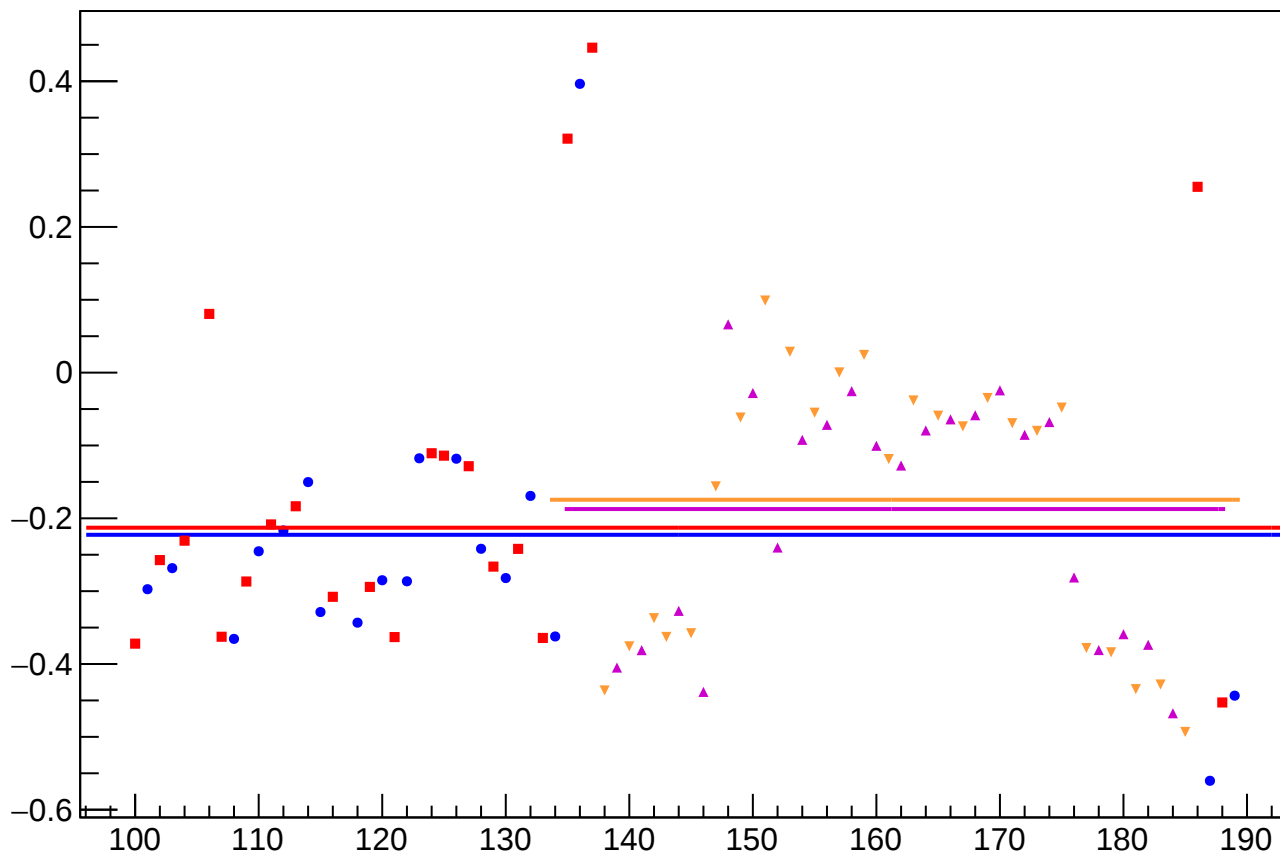
Right: 0.005+/-0.000 χ^2/NDF : 1262717.3/39

In: 0.005+/-0.000 χ^2/NDF : 899631.2/41

Out: 0.005+/-0.000 χ^2/NDF : 1434191.0/45

All: 0.005+/-0.000 χ^2/NDF : 2335222.6/87

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.223+/-0.000

χ^2/NDF : 6841723559.2/18

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: -0.217+/-0.000

χ^2/NDF : 14650233606.2/39

Right Out: -0.213+/-0.000

χ^2/NDF : 7800722937.8/20

In: -0.195+/-0.000

χ^2/NDF : 19806398661.8/41

Out: -0.184+/-0.000

χ^2/NDF : 26026849649.8/45

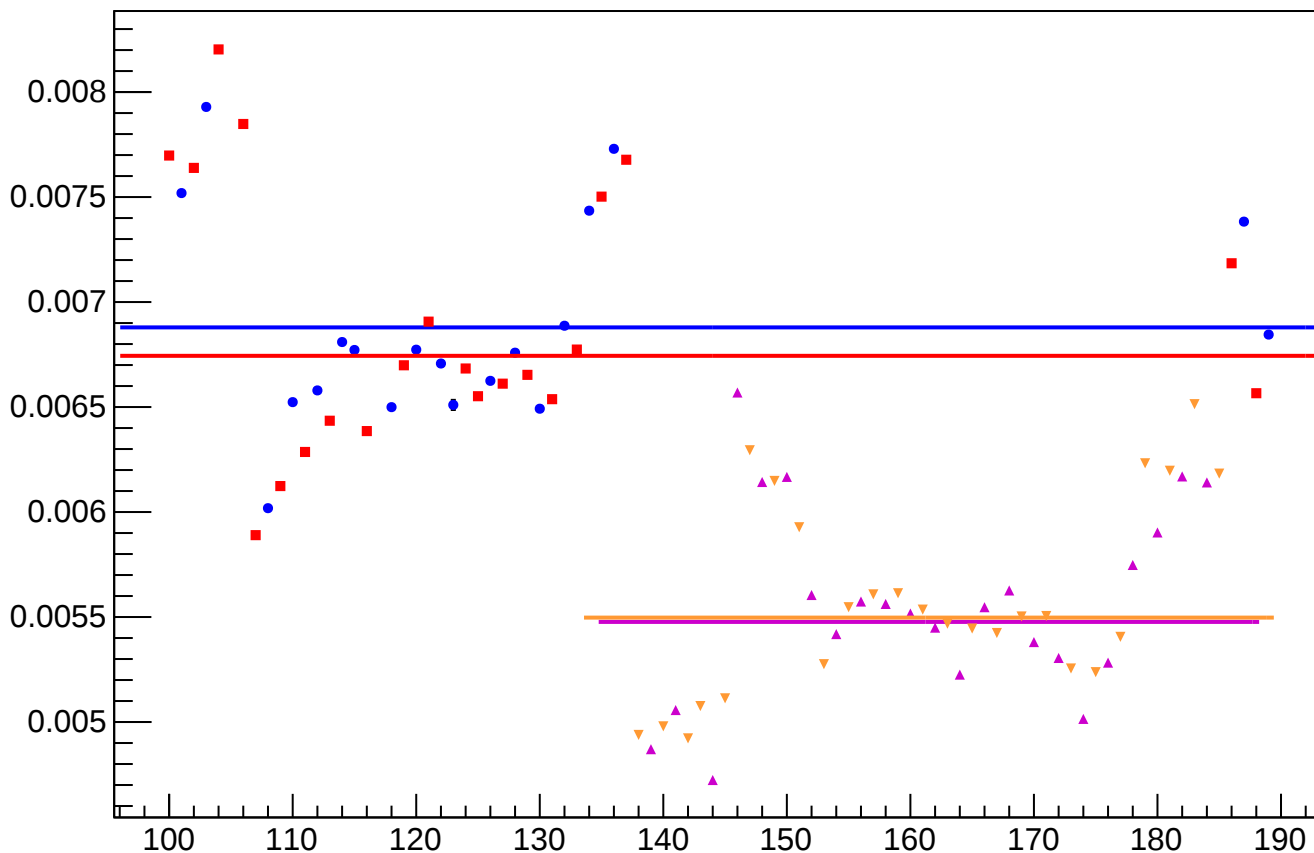
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.189+/-0.000

χ^2/NDF : 45880468980.0/...

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 : 109531.2/20

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

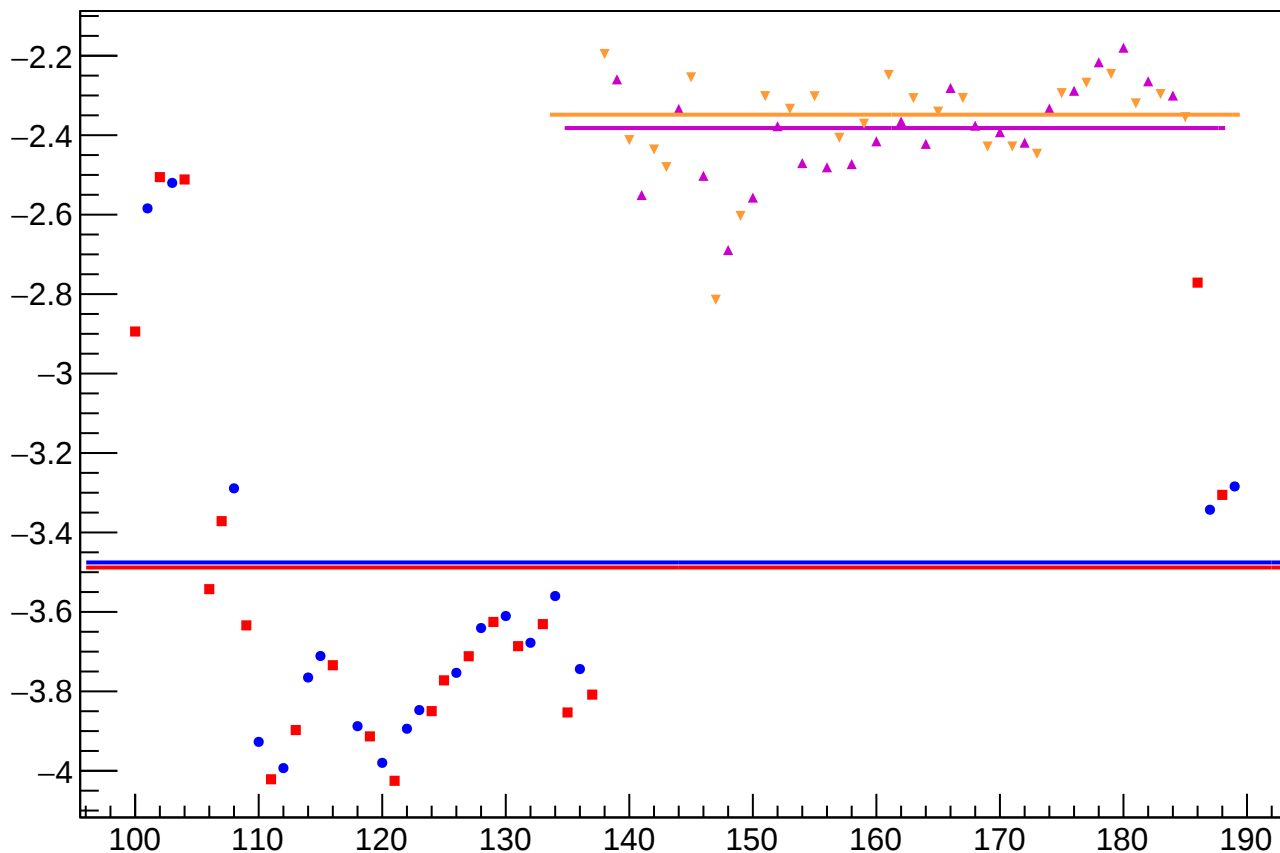
Right: 0.007+/-0.000 χ^2/NDF : 192628.6/39

In: 0.006+/-0.000 χ^2/NDF :748706.8/41

Out: 0.006+/-0.000 χ^2/NDF :731623.2/45

All: 0.006+/-0.000 χ^2/NDF : 1480410.4/87

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: -3.488+/-0.000 χ^2/NDF : 28229049128.2/20

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

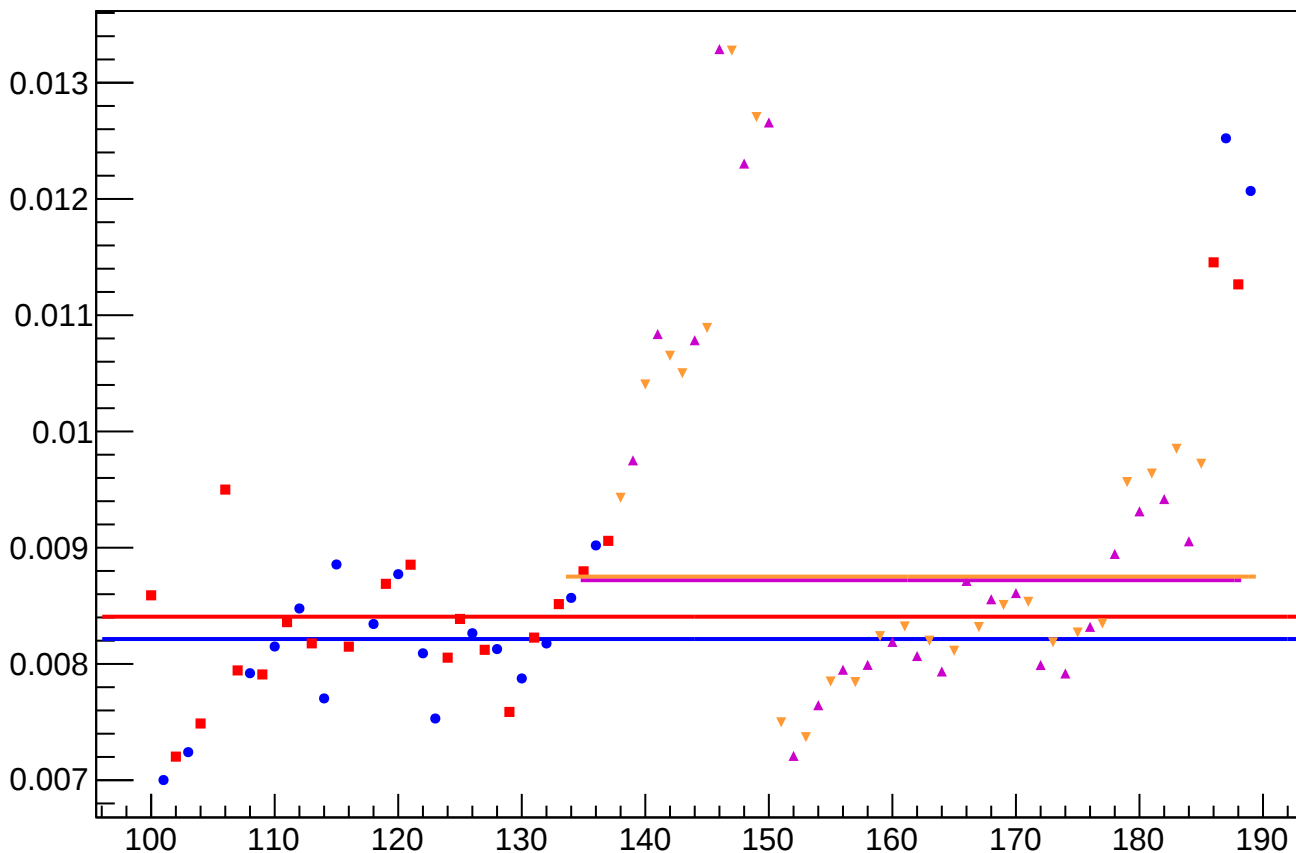
Right: -3.482+/-0.000 χ^2/NDF : 55536528101.5/39

In: -2.741+/-0.000 χ^2/NDF : 113372256179.4/41

Out: -2.727+/-0.000 χ^2/NDF : 127474493870.0/45

All: -2.734+/-0.000 χ^2/NDF : 240878389448.5

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: 0.008+/-0.000 χ^2/NDF : 238726.0/20

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

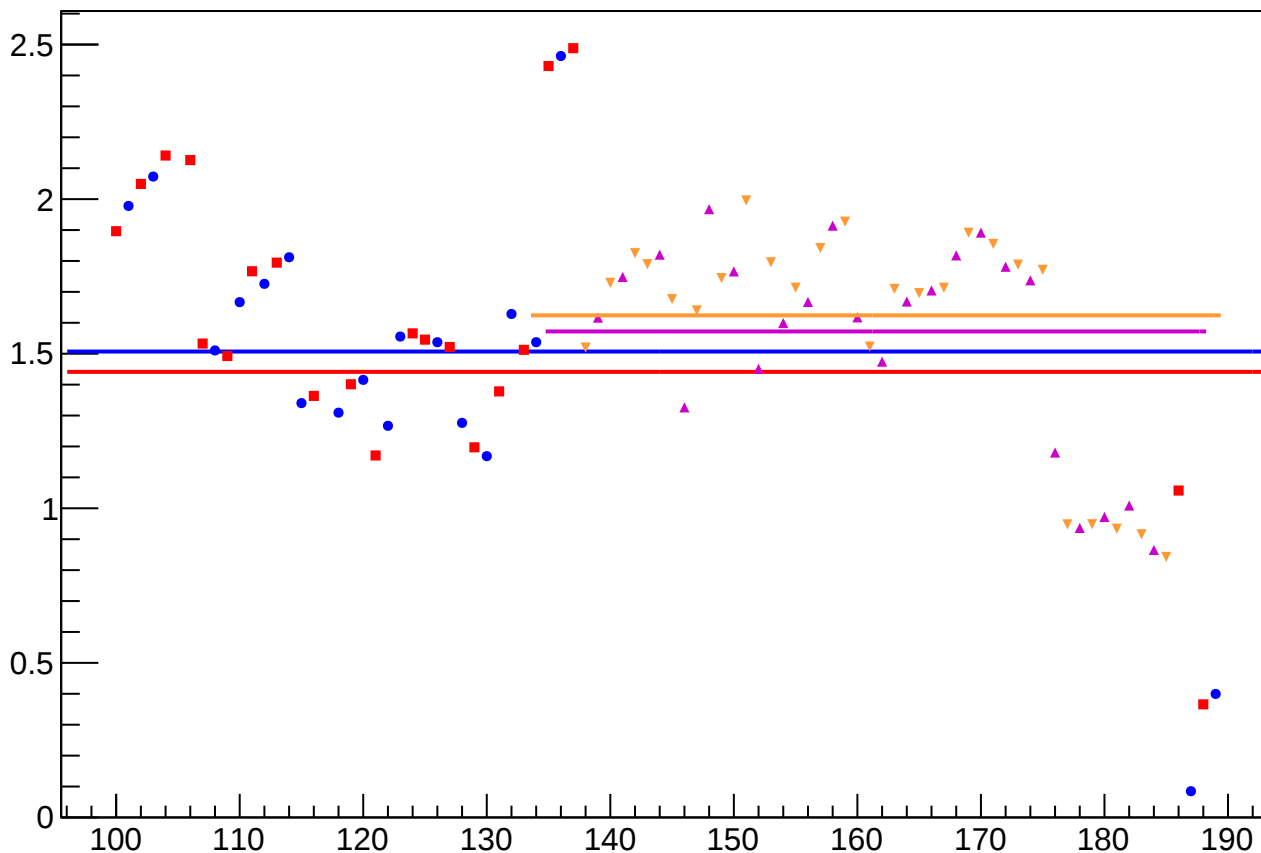
Right: 0.008+/-0.000 χ^2/NDF : 451887.7/39

In: 0.009+/-0.000 χ^2/NDF : 992935.8/41

Out: 0.009+/-0.000 χ^2/NDF : 920180.7/45

All: 0.009+/-0.000 χ^2/NDF : 1915340.8/87

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: 1.441 $\pm$ 0.000 χ^2 /NDF: 18158261329.8/20

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

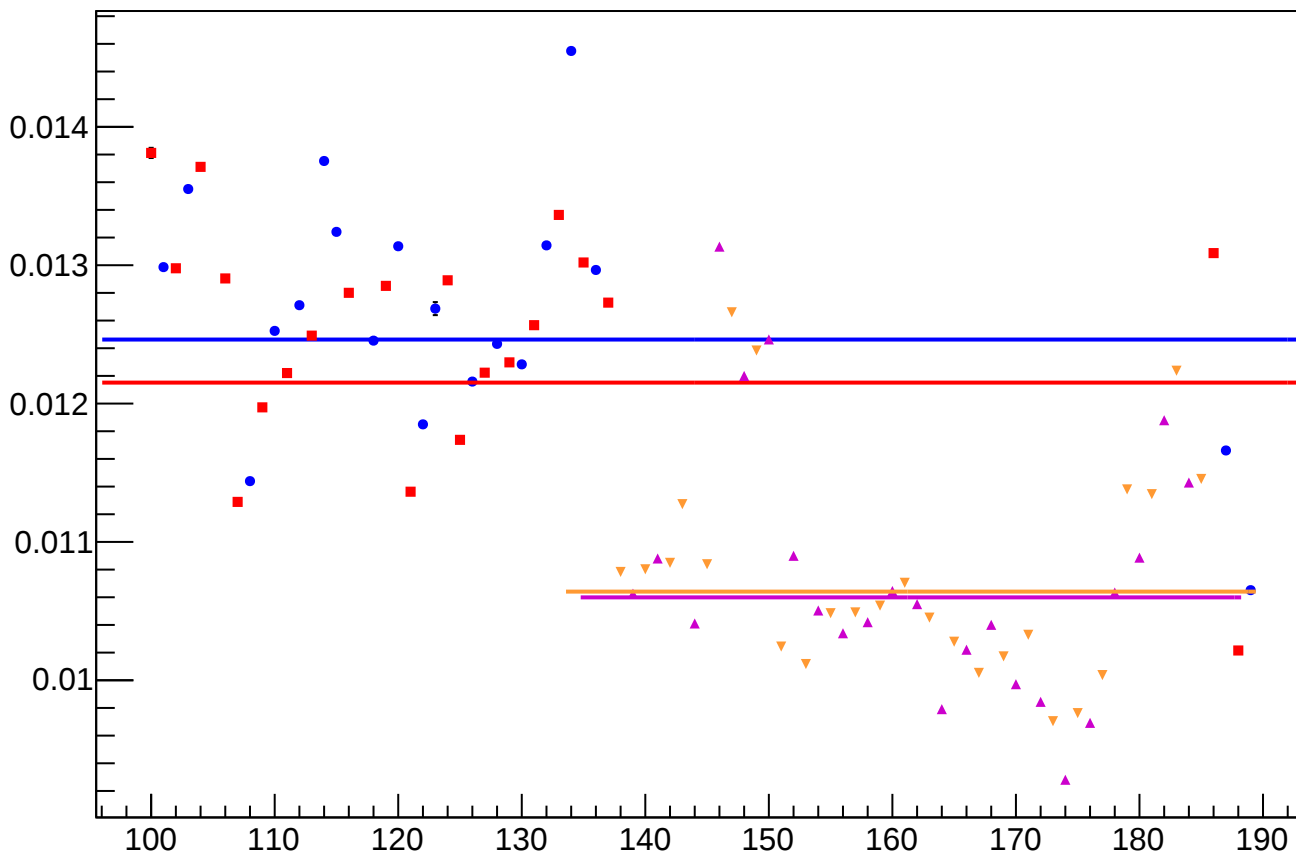
Right: 1.471 $\pm$ 0.000 χ^2 /NDF: 32849328696.8/39

In: 1.557 $\pm$ 0.000 χ^2 /NDF: 28961671503.1/41

Out: 1.577 $\pm$ 0.000 χ^2 /NDF: 36141407370.6/45

All: 1.567 $\pm$ 0.000 χ^2 /NDF: 65143919591.9/8

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 : 114414.1/20

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

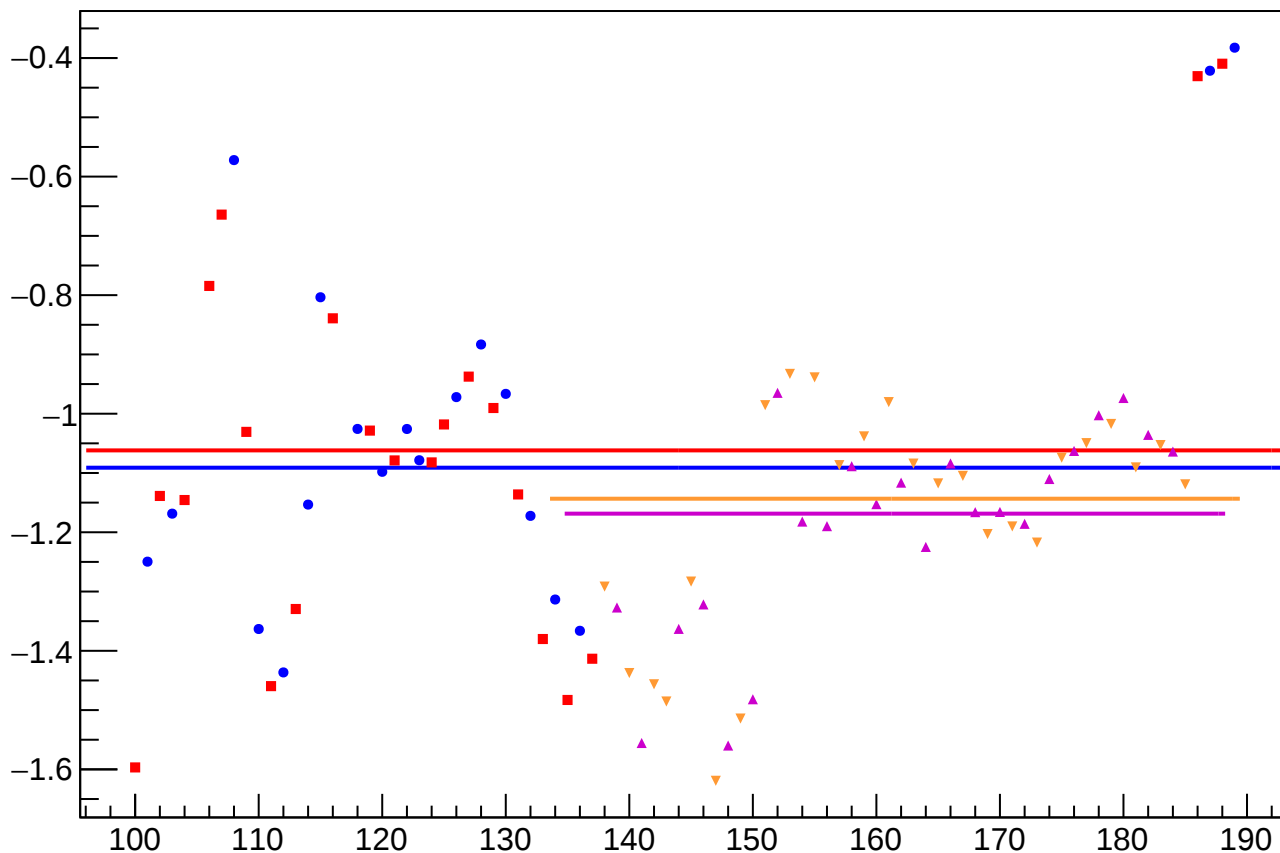
Right: 0.012+/-0.000 χ^2/NDF : 183071.9/39

In: 0.011+/-0.000 χ^2/NDF :511769.4/41

Out: 0.011+/-0.000 χ^2/NDF :458899.9/45

All: 0.011+/-0.000 χ^2/NDF : 970683.7/87

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: -1.062±/0.000 χ^2/NDF : 8084355096.1/20

Left In: -1.169±/0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156±/0.000 χ^2/NDF : 14424995220.9/47

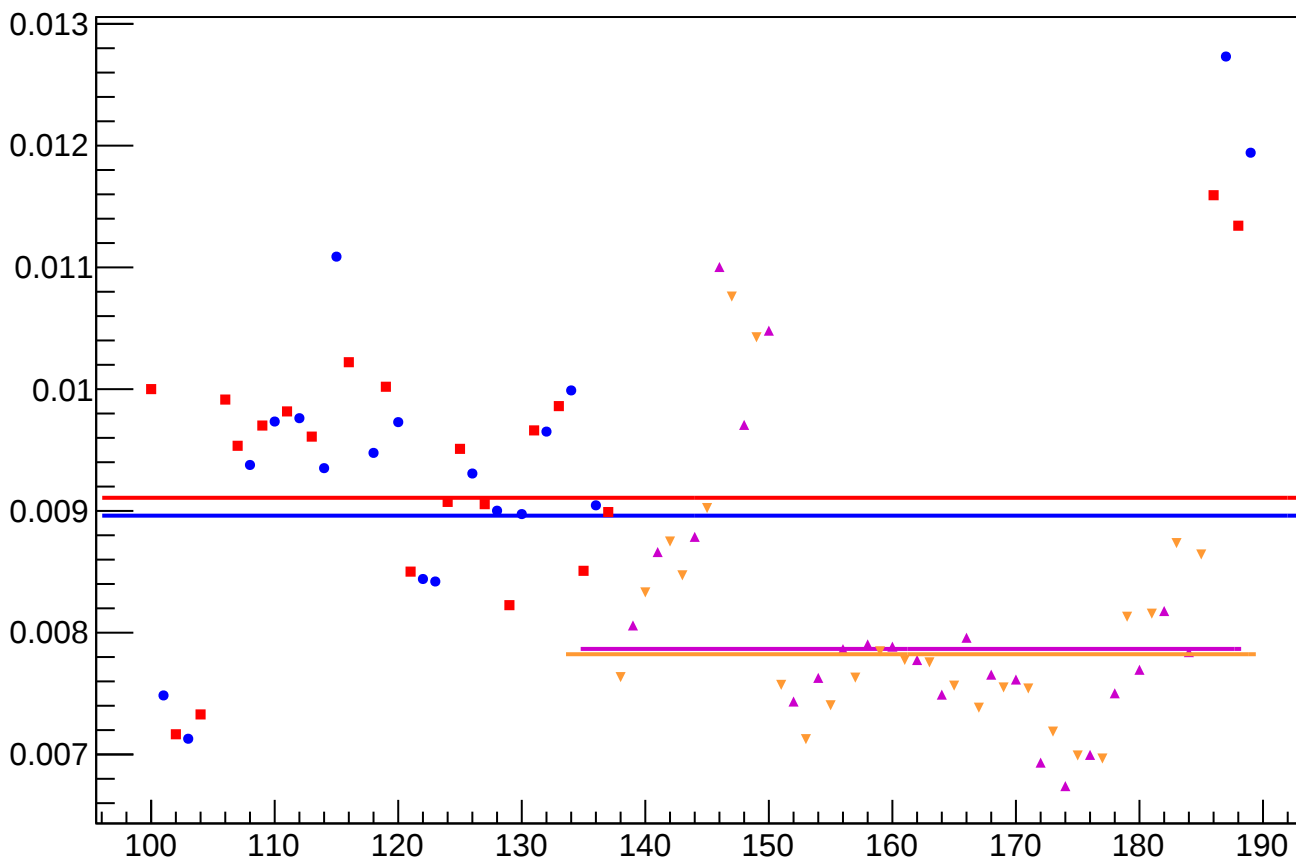
Right: -1.076±/0.000 χ^2/NDF : 13842319023.9/39

In: -1.149±/0.000 χ^2/NDF : 12472249899.9/41

Out: -1.123±/0.000 χ^2/NDF : 16527178137.1/45

All: -1.136±/0.000 χ^2/NDF : 29125546402.9/100

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 : 286415.9/20

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

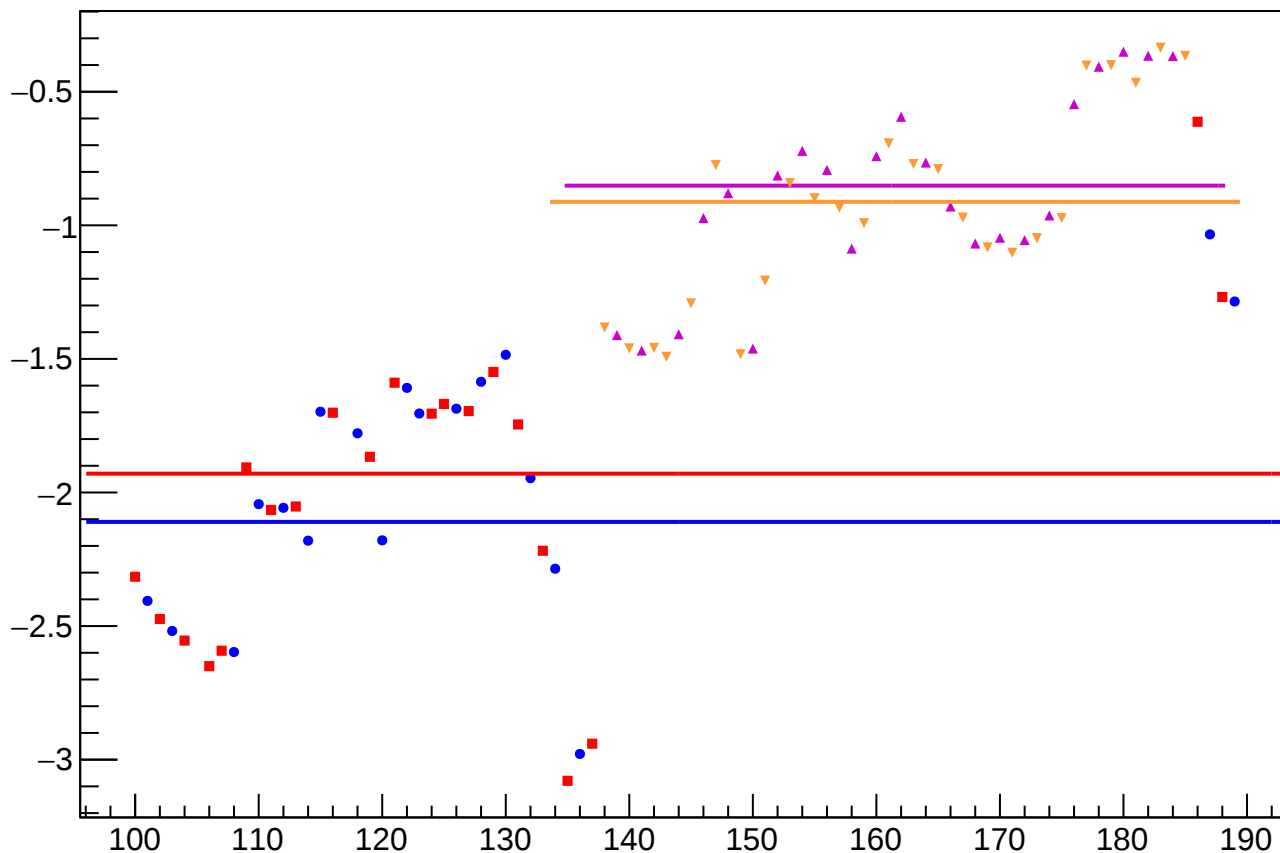
Right: 0.009+/-0.000 χ^2/NDF : 528701.7/39

In: 0.008+/-0.000 χ^2/NDF :775687.0/41

Out: 0.008+/-0.000 χ^2/NDF :854552.8/45

All: 0.008+/-0.000 χ^2/NDF : 1630260.4/87

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.110+/-0.000 χ^2/NDF : 31981123593.3/18

Left Out: -0.912+/-0.000 χ^2/NDF : 49039425818.1/24

Right Out: -1.930+/-0.000 χ^2/NDF : 62090613302.9/20

Left In: -0.851+/-0.000 χ^2/NDF : 46438446008.2/22

Left: -0.882+/-0.000 χ^2/NDF : 96285672564.6/47

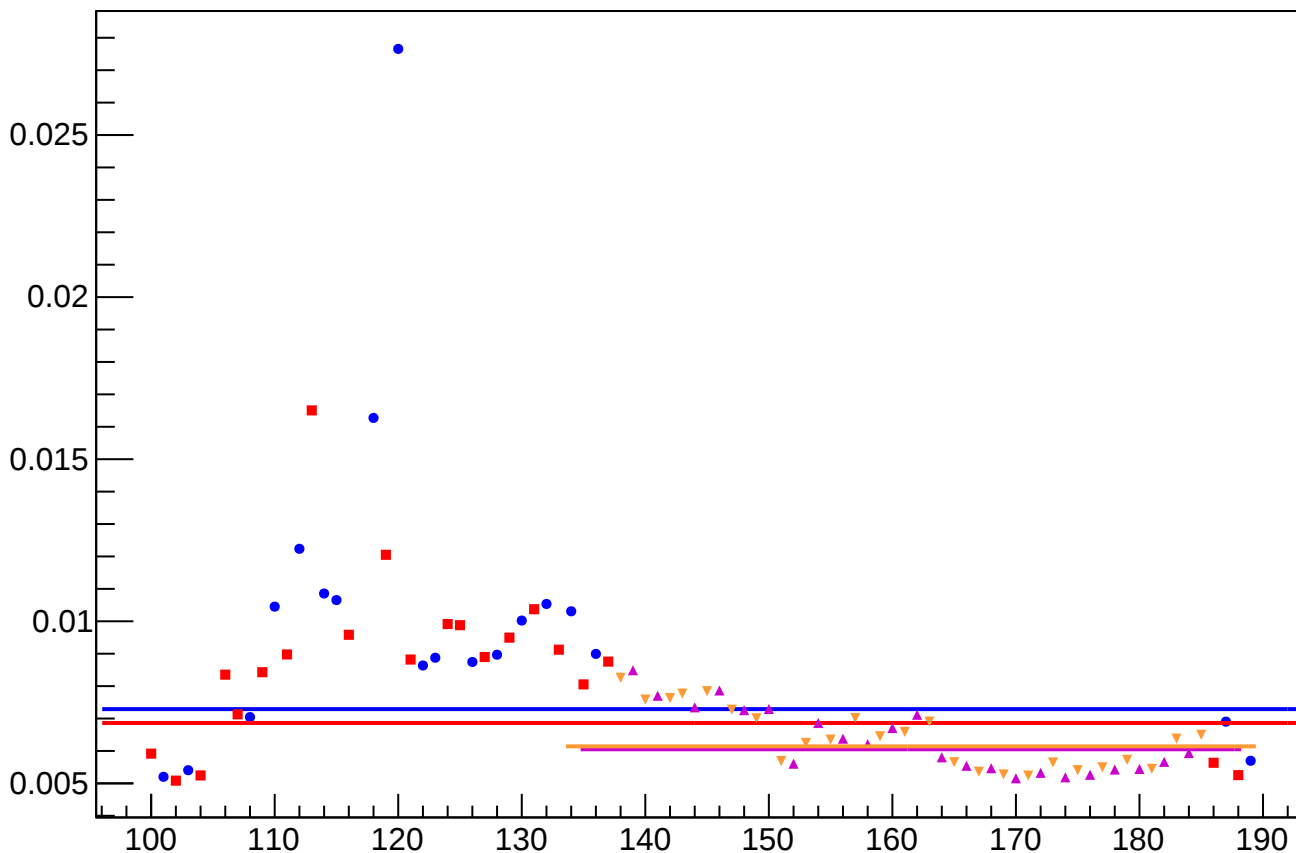
Right: -2.006+/-0.000 χ^2/NDF : 96025765241.1/39

In: -1.095+/-0.000 χ^2/NDF : 211741031764.2/41

Out: -1.157+/-0.000 χ^2/NDF : 221941285051.2/45

All: -1.127+/-0.000 χ^2/NDF : 434751977193.2

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 : 1196230.7/20

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

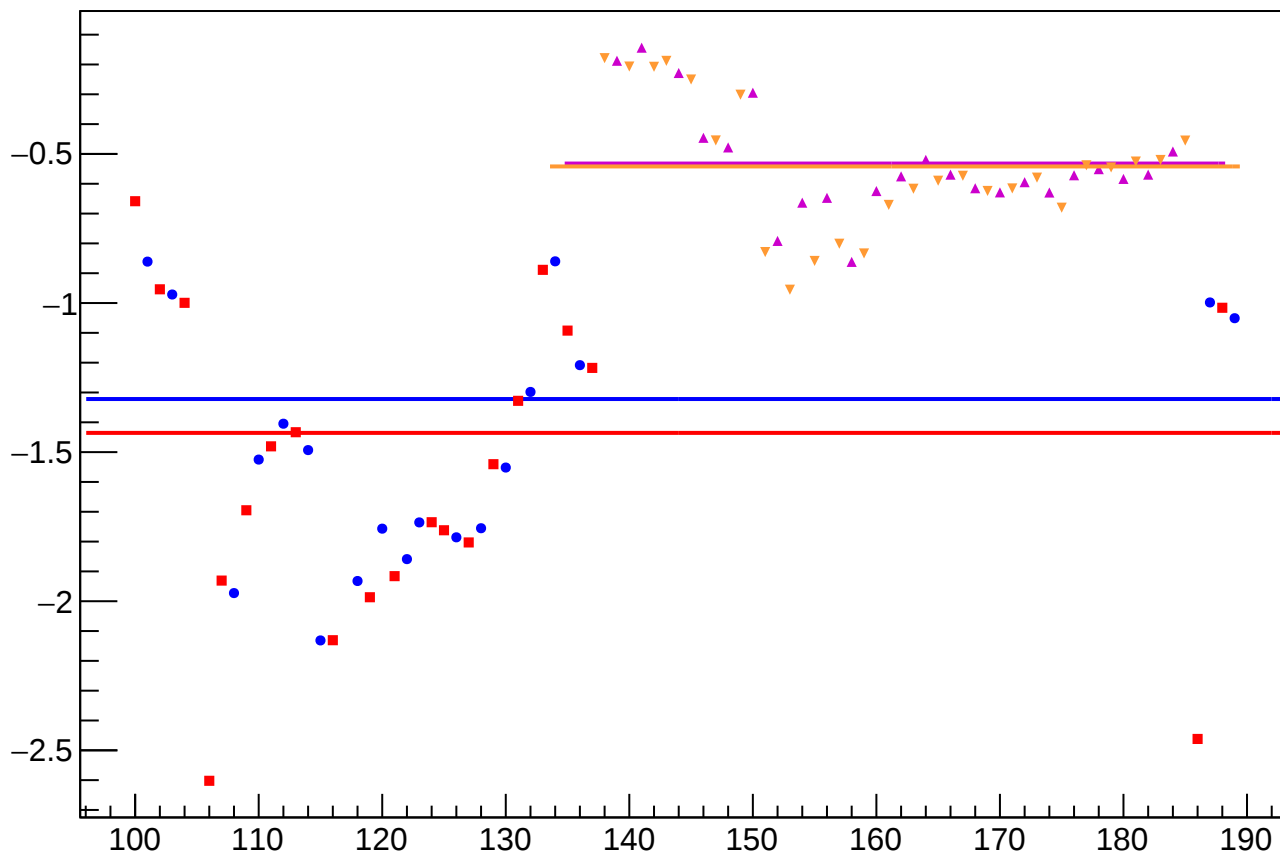
Right: 0.007+/-0.000 χ^2/NDF : 2515060.4/39

In: 0.006+/-0.000 χ^2/NDF : 2252542.5/41

Out: 0.006+/-0.000 χ^2/NDF : 1945328.8/45

All: 0.006+/-0.000 χ^2/NDF : 4198178.0/87

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: -1.435+/-0.000 χ^2/NDF : 65364260610.8/20

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

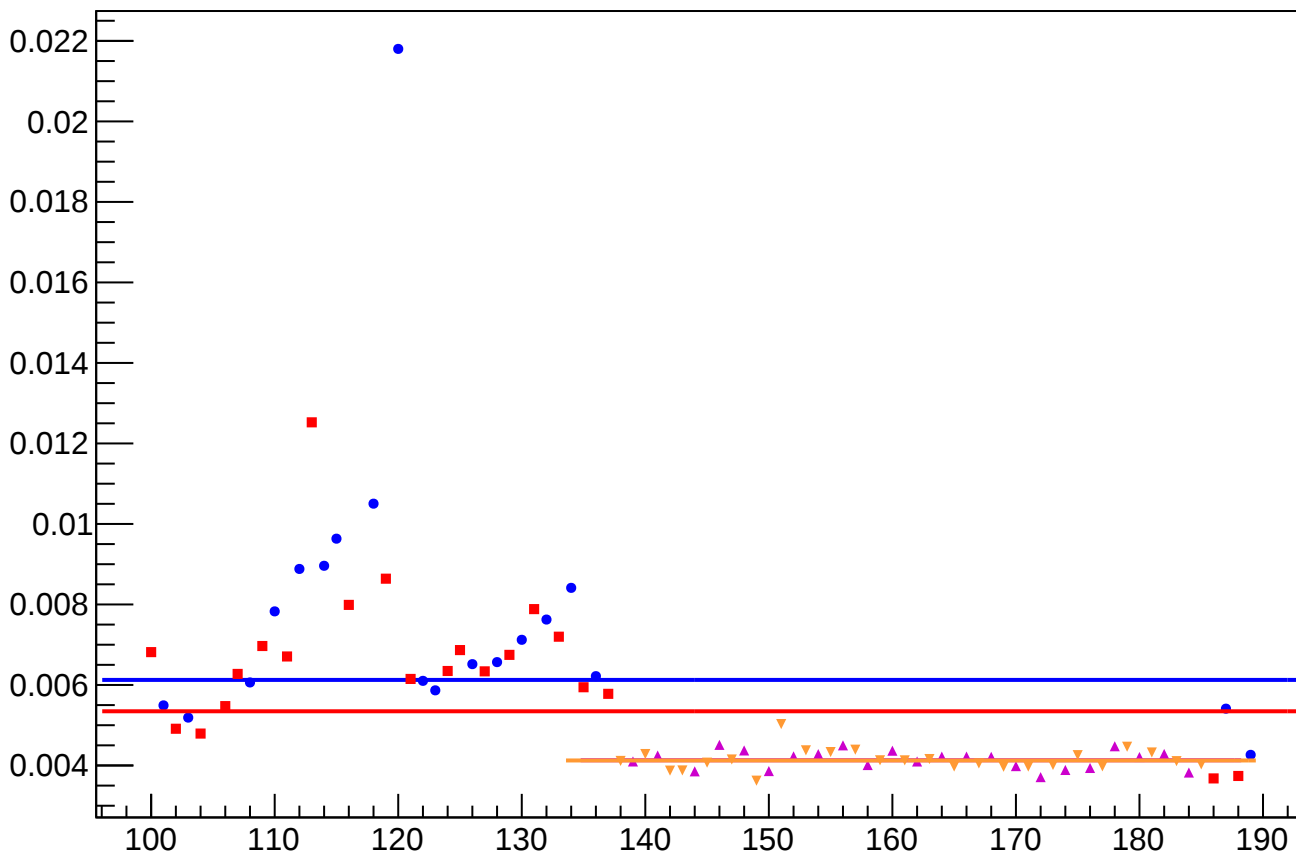
Right: -1.390+/-0.000 χ^2/NDF : 89012637885.8/39

In: -0.645+/-0.000 χ^2/NDF : 136611371053.5/41

Out: -0.712+/-0.000 χ^2/NDF : 263240489485.1/45

All: -0.680+/-0.000 χ^2/NDF : 402427768036.7

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 : 1076644.0/20

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

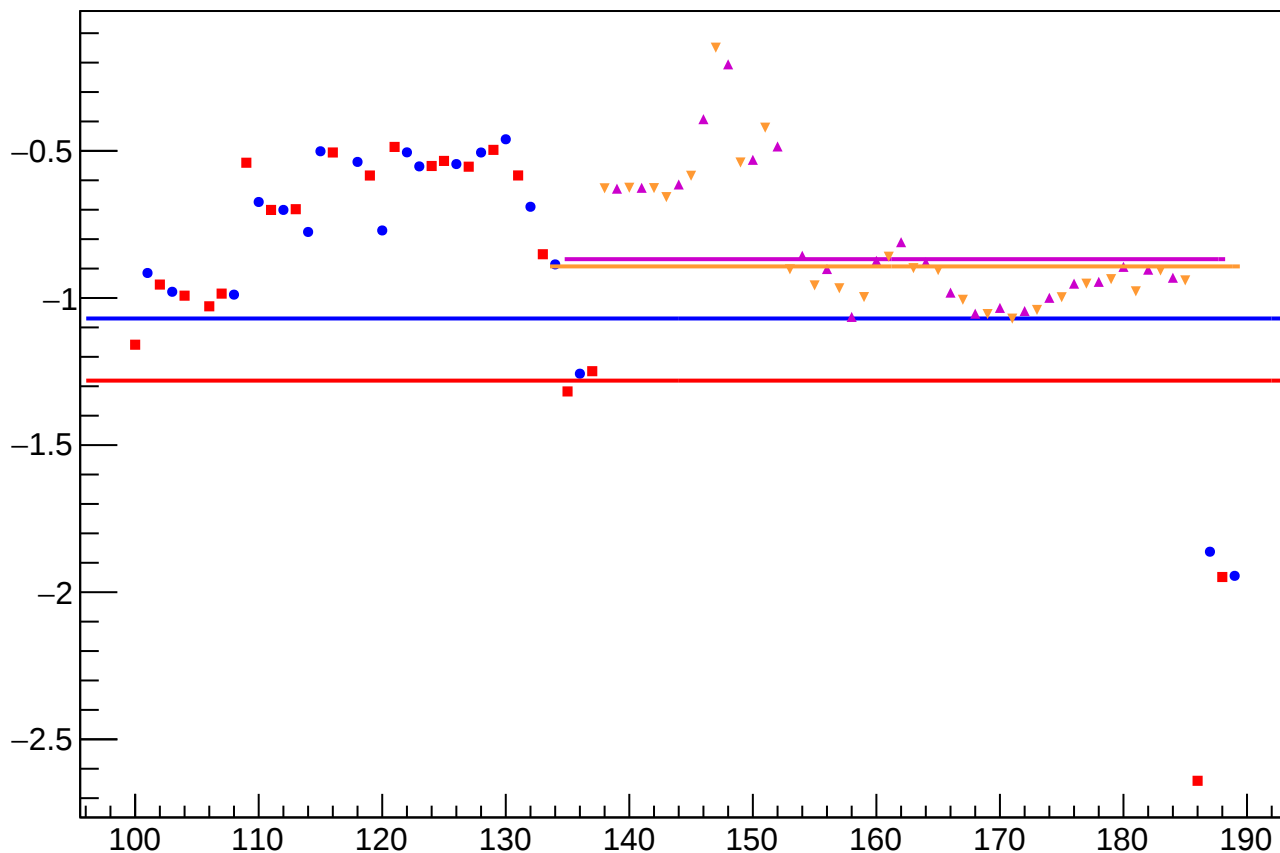
Right: 0.006+/-0.000 χ^2/NDF : 1954109.8/39

In: 0.004+/-0.000 χ^2/NDF :1923207.9/41

Out: 0.004+/-0.000 χ^2/NDF :1753045.7/45

All: 0.004+/-0.000 χ^2/NDF : 3680151.6/87

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.070 ± 0.000 χ^2/NDF : 69434416634.0/18

Left Out: -0.893 ± 0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.281 ± 0.000 χ^2/NDF : 166653003564.4/20

Left In: -0.868 ± 0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880 ± 0.000 χ^2/NDF : 84980637247.0/47

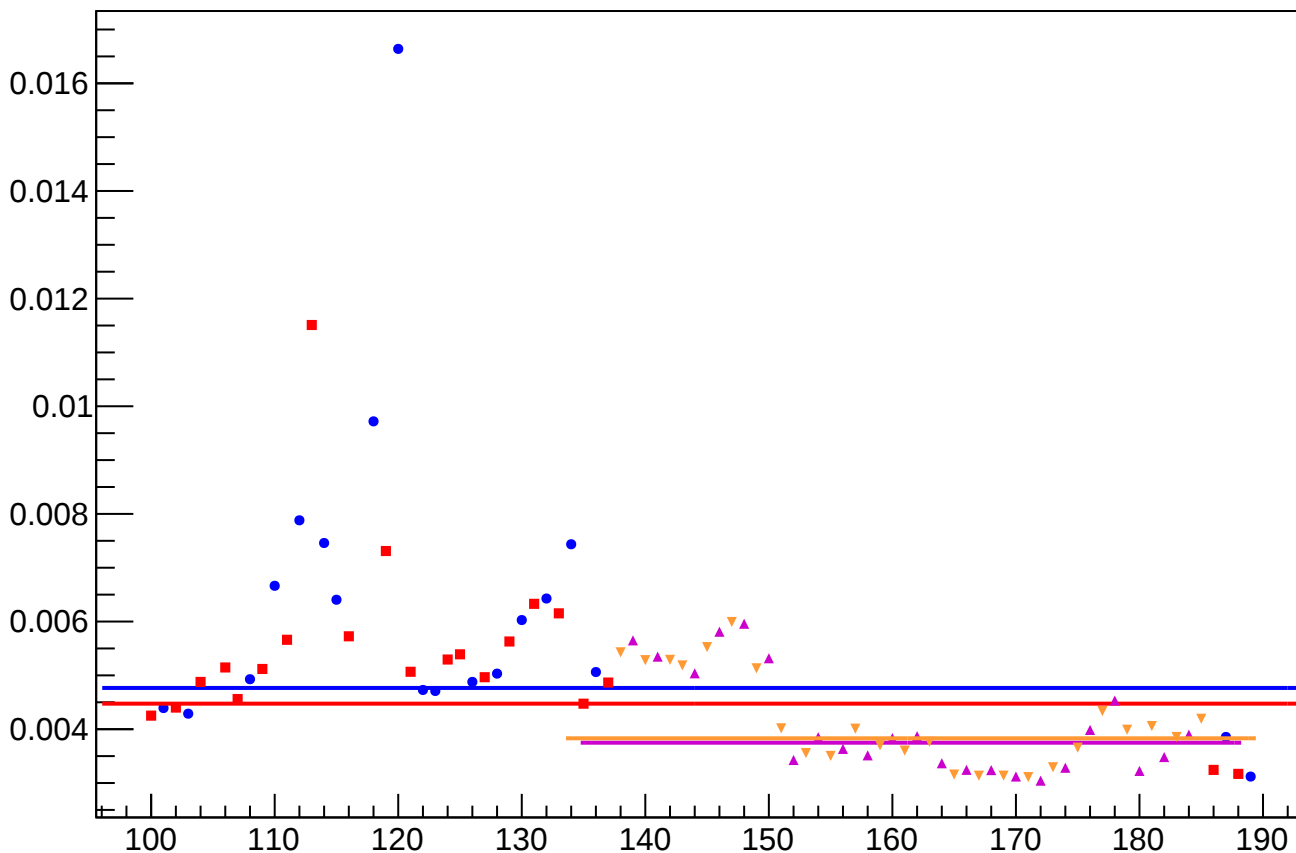
Right: -1.191 ± 0.000 χ^2/NDF : 242577880332.8/39

In: -0.905 ± 0.000 χ^2/NDF : 121684225750.0/41

Out: -0.983 ± 0.000 χ^2/NDF : 246956954878.9/45

All: -0.946 ± 0.000 χ^2/NDF : 372926994890.8

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 : 973067.7/20

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

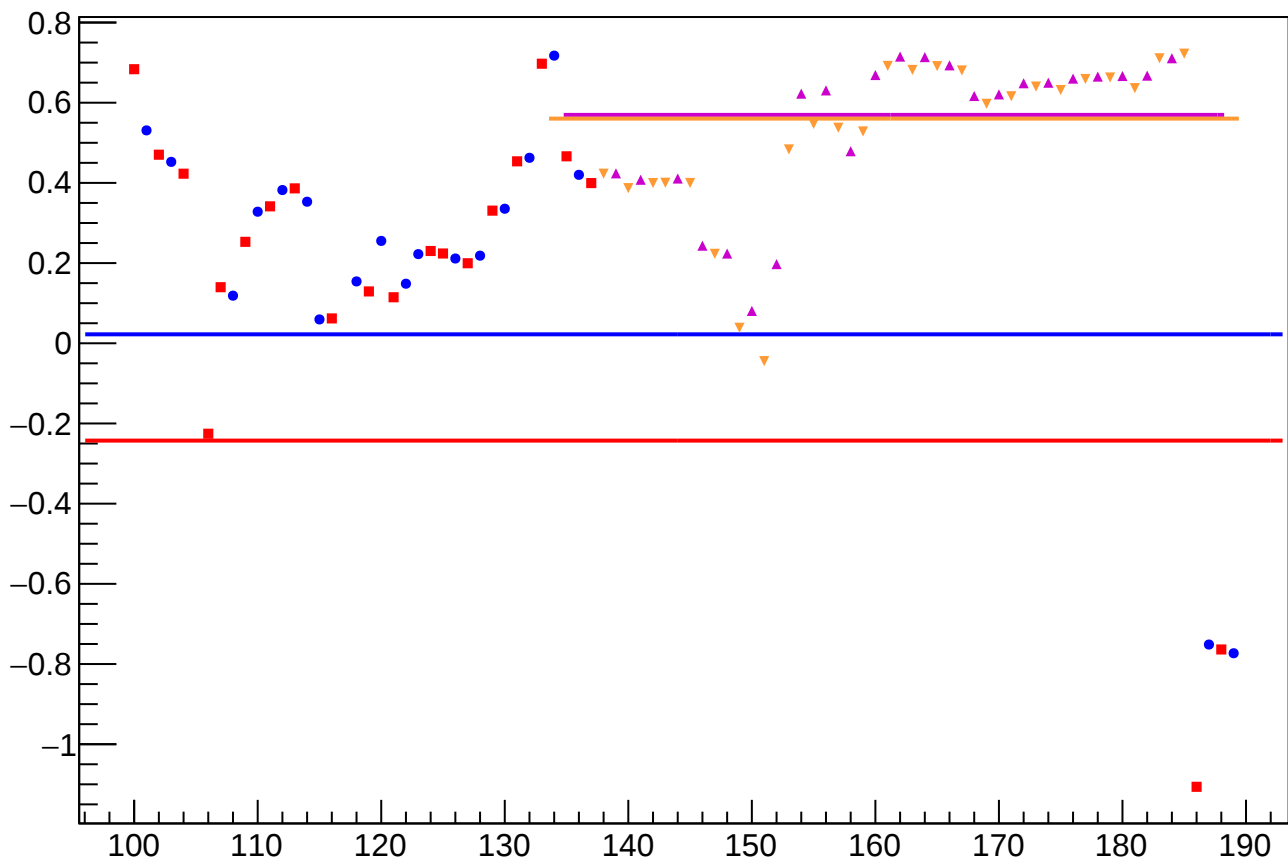
Right: 0.005+/-0.000 χ^2/NDF : 2016265.0/39

In: 0.004+/-0.000 χ^2/NDF :2734260.9/41

Out: 0.004+/-0.000 χ^2/NDF :2370078.9/45

All: 0.004+/-0.000 χ^2/NDF : 5107023.9/87

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: -0.243 $\pm$ 0.000 χ^2 /NDF: 280629343775.6/20

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

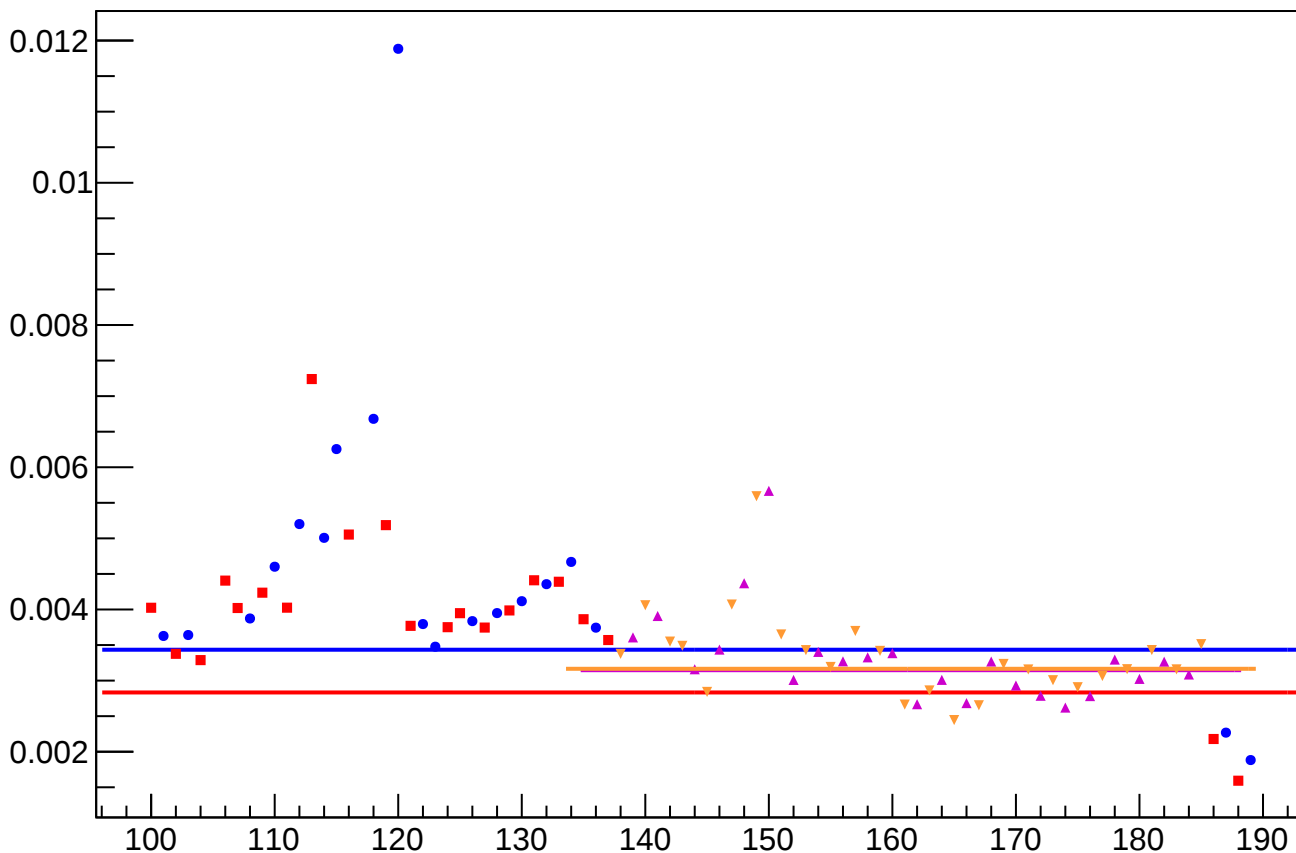
Right: -0.140 $\pm$ 0.000 χ^2 /NDF: 436462286878.5/39

In: 0.439 $\pm$ 0.000 χ^2 /NDF: 288303302167.2/41

Out: 0.300 $\pm$ 0.000 χ^2 /NDF: 664575111642.3/45

All: 0.364 $\pm$ 0.000 χ^2 /NDF: 974242453421.3

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 : 2247713.8/20

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

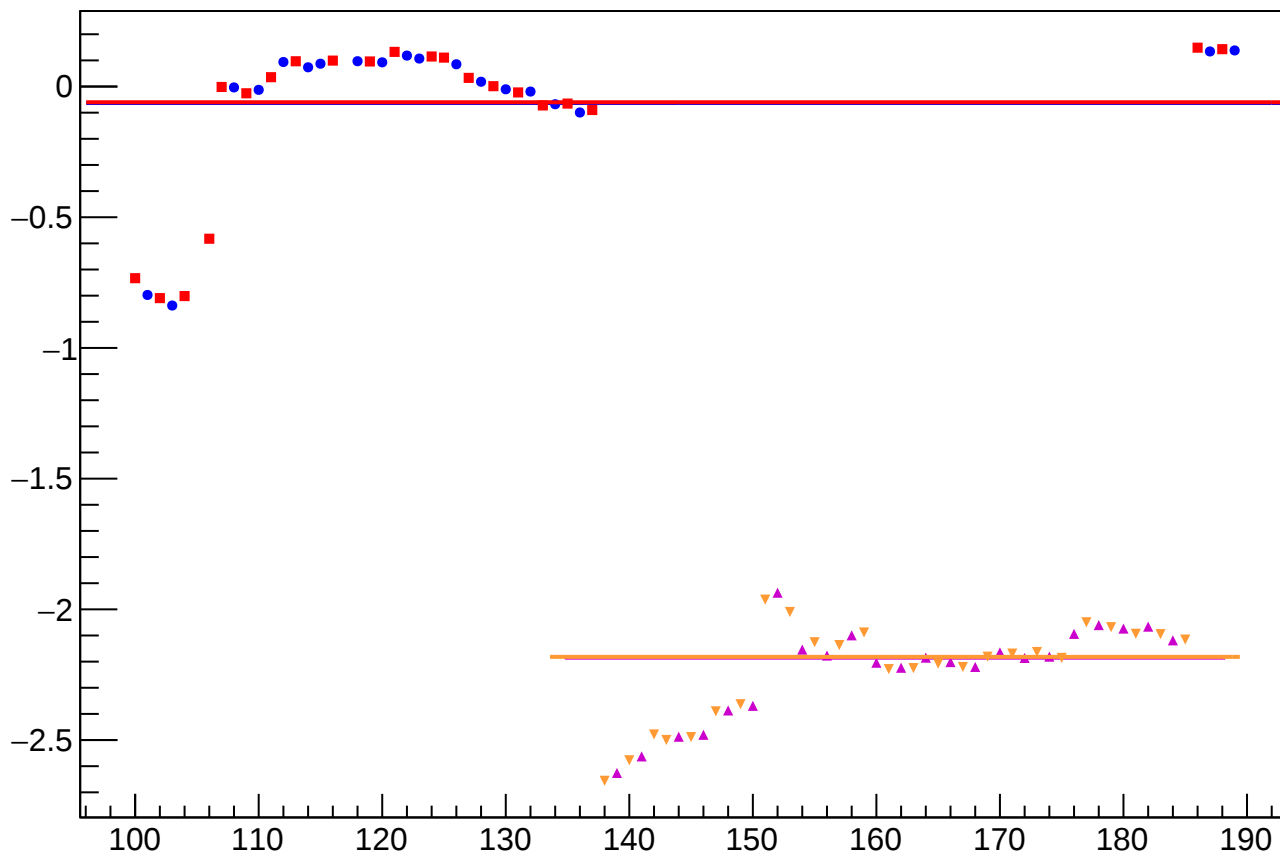
Right: 0.003+/-0.000 χ^2/NDF : 3827024.3/39

In: 0.003+/-0.000 χ^2/NDF : 2140600.2/41

Out: 0.003+/-0.000 χ^2/NDF : 3108947.4/45

All: 0.003+/-0.000 χ^2/NDF : 5303975.1/87

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: -0.060+/-0.000 χ^2/NDF : 6217870150.7/20

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

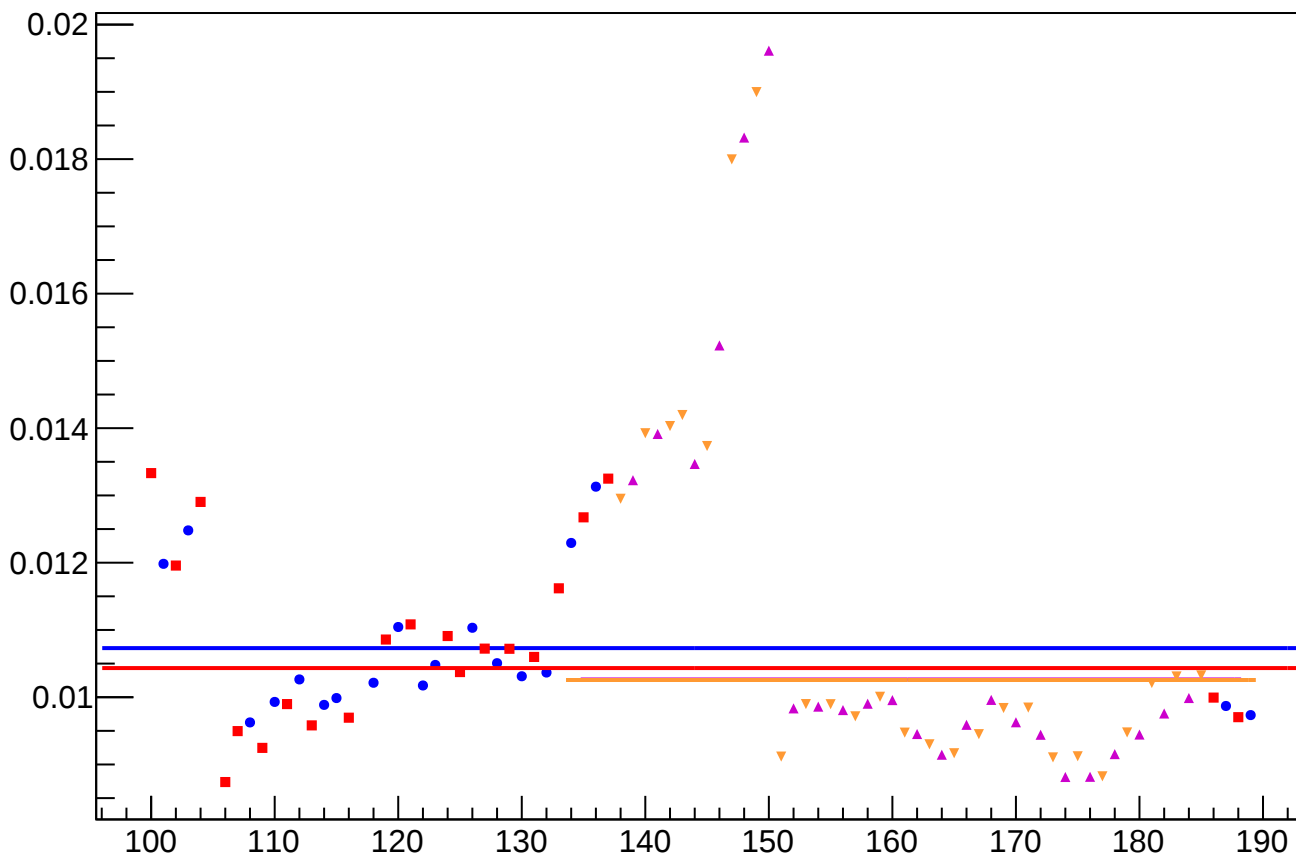
Right: -0.061+/-0.000 χ^2/NDF : 11500651785.3/39

In: -1.579+/-0.000 χ^2/NDF : 210938226622.8/41

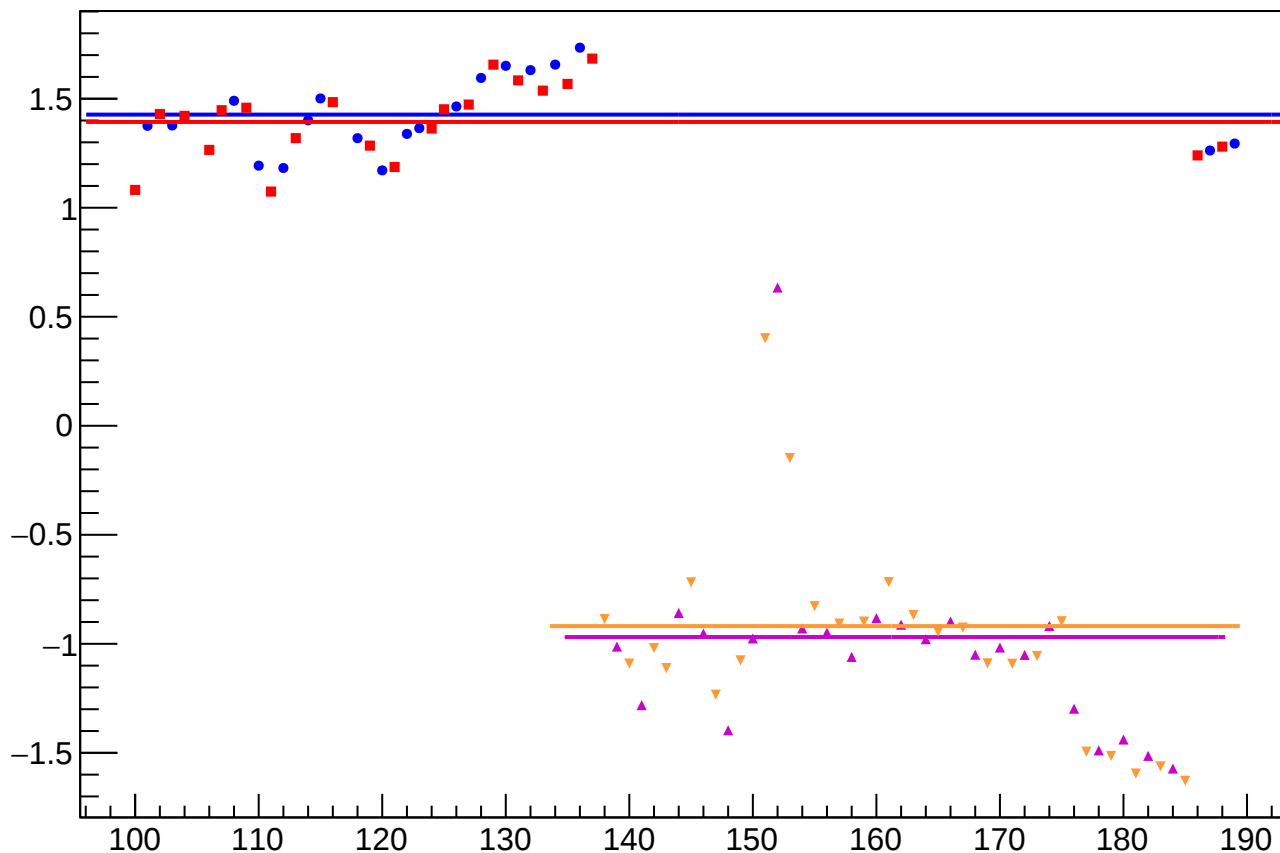
Out: -1.522+/-0.000 χ^2/NDF : 245208561271.1/45

All: -1.549+/-0.000 χ^2/NDF : 456529438220.0

yield_bpm1i02X_rms vs Slug, Sign Corrected



yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.427 $\pm$ 0.000

χ^2 /NDF: 3677585583.9/18

Left: -0.943 $\pm$ 0.000

χ^2 /NDF: 110825900215.1/47

Left Out: -0.919 $\pm$ 0.000

χ^2 /NDF: 55622252895.8/24

Right: 1.409 $\pm$ 0.000

χ^2 /NDF: 6873029877.0/39

Right Out: 1.394 $\pm$ 0.000

χ^2 /NDF: 3115183147.2/20

In: -0.115 $\pm$ 0.000

χ^2 /NDF: 548296972375.8/41

Left In: -0.969 $\pm$ 0.000

χ^2 /NDF: 54895002535.8/22

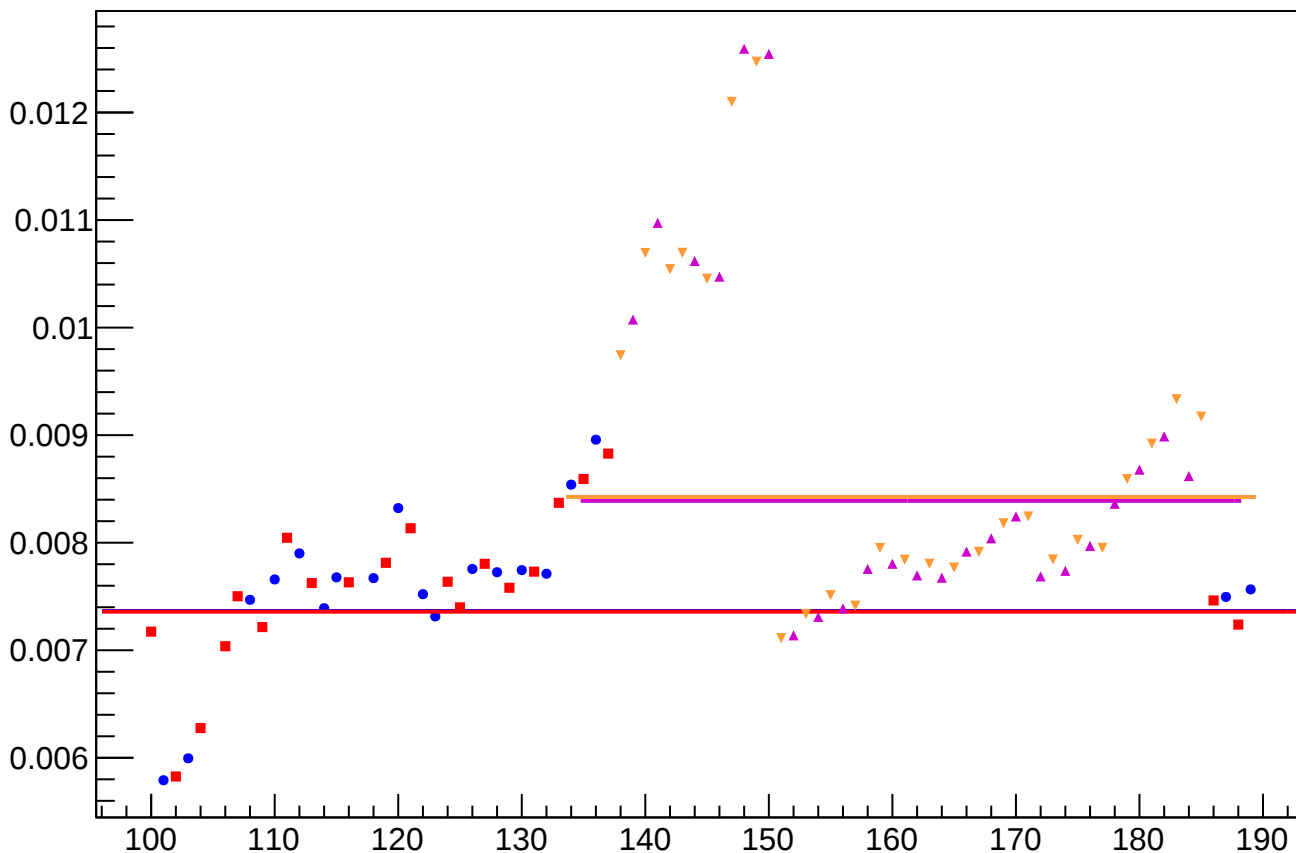
Out: -0.047 $\pm$ 0.000

χ^2 /NDF: 566763678298.6/45

All: -0.080 $\pm$ 0.000

χ^2 /NDF: 1115955477167

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 229490.1/18

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 173082.8/20

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

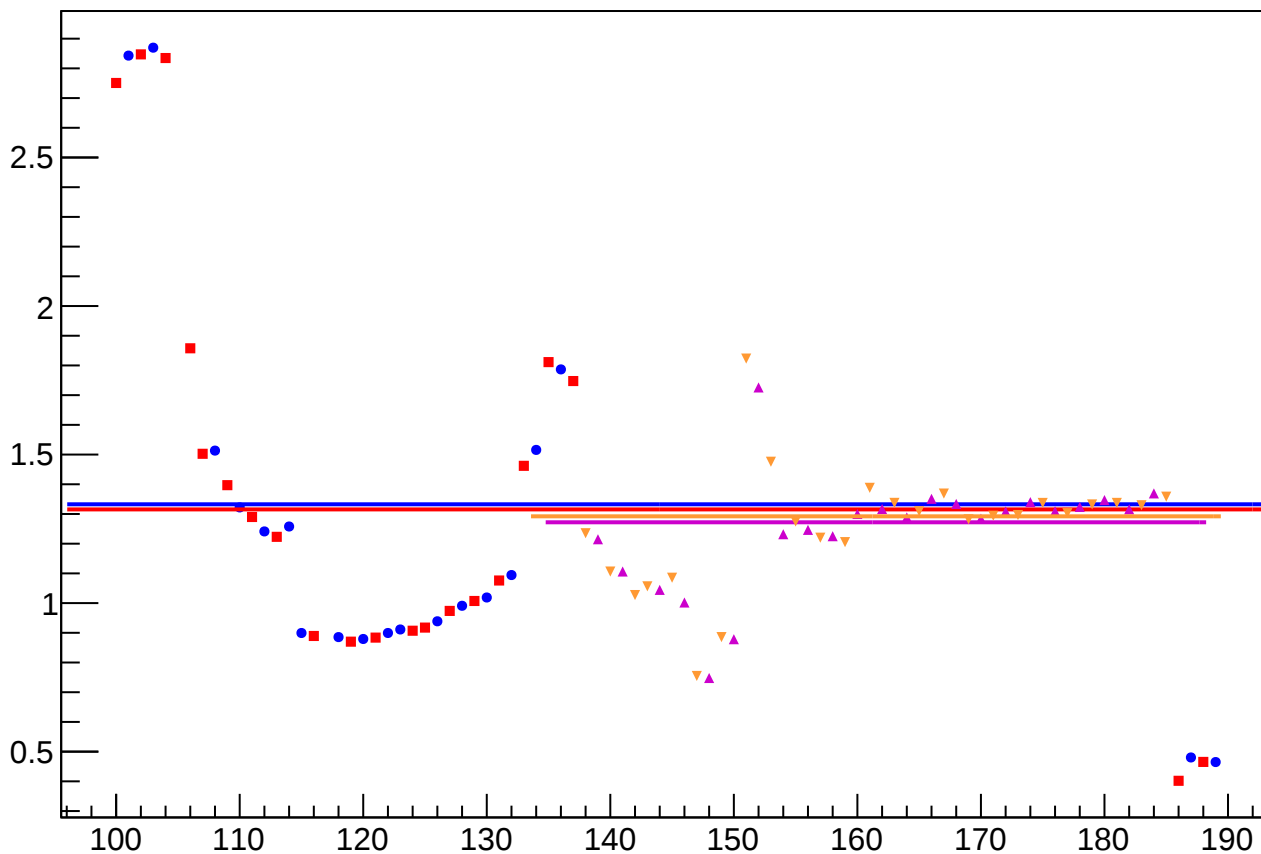
Right: 0.007+/-0.000 χ^2/NDF : 402577.9/39

In: 0.008+/-0.000 χ^2/NDF : 1248379.8/41

Out: 0.008+/-0.000 χ^2/NDF : 1181495.3/45

All: 0.008+/-0.000 χ^2/NDF : 2429875.4/87

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.333+/-0.000 χ^2/NDF : 59075317136.2/18

Left Out: 1.292+/-0.000 χ^2/NDF : 9305298695.5/24

Right Out: 1.315+/-0.000 χ^2/NDF : 60600292516.5/20

Left In: 1.272+/-0.000 χ^2/NDF : 7573930981.2/22

Left: 1.282+/-0.000 χ^2/NDF : 16930321584.4/47

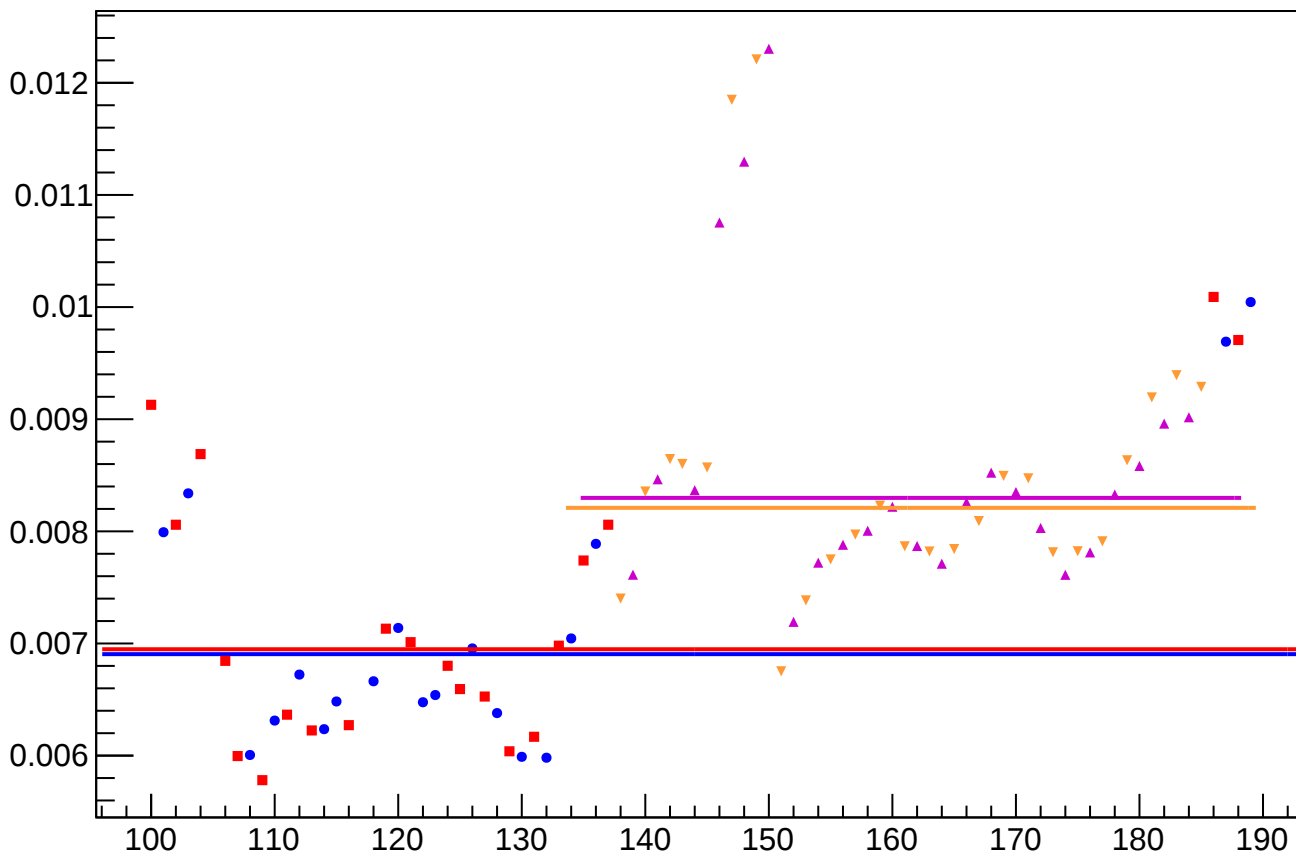
Right: 1.323+/-0.000 χ^2/NDF : 119699148389.2/39

In: 1.295+/-0.000 χ^2/NDF : 66990344725.9/41

Out: 1.301+/-0.000 χ^2/NDF : 69961170558.8/45

All: 1.298+/-0.000 χ^2/NDF : 136959113775.8

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 282700.9/18

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:478864.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 424664.1/20

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:462022.1/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 942877.3/47

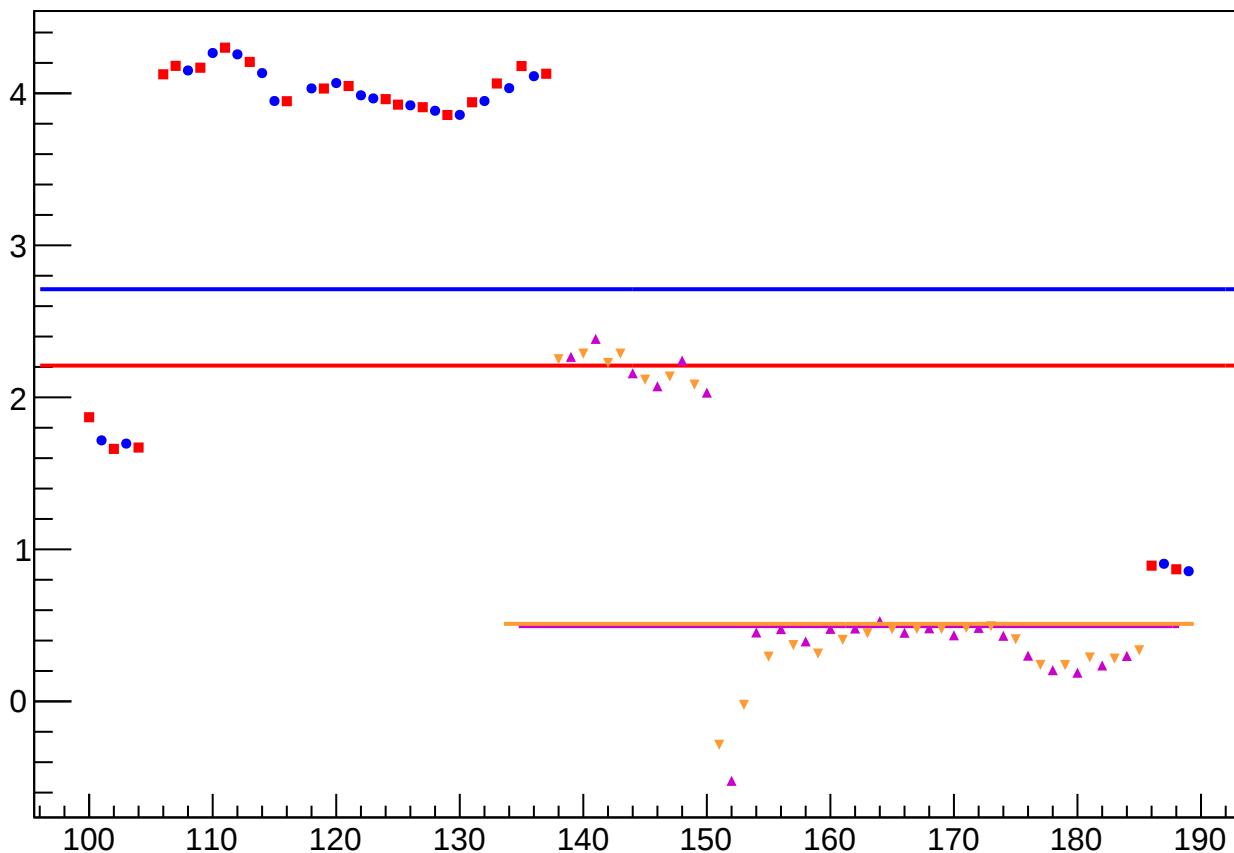
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 707669.7/39

In: 0.008 $\pm$ 0.000 χ^2 /NDF:1105489.4/41

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1229884.5/45

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2336383.3/87

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: 2.209+/-0.000 χ^2/NDF : 1116769127687.9/20

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

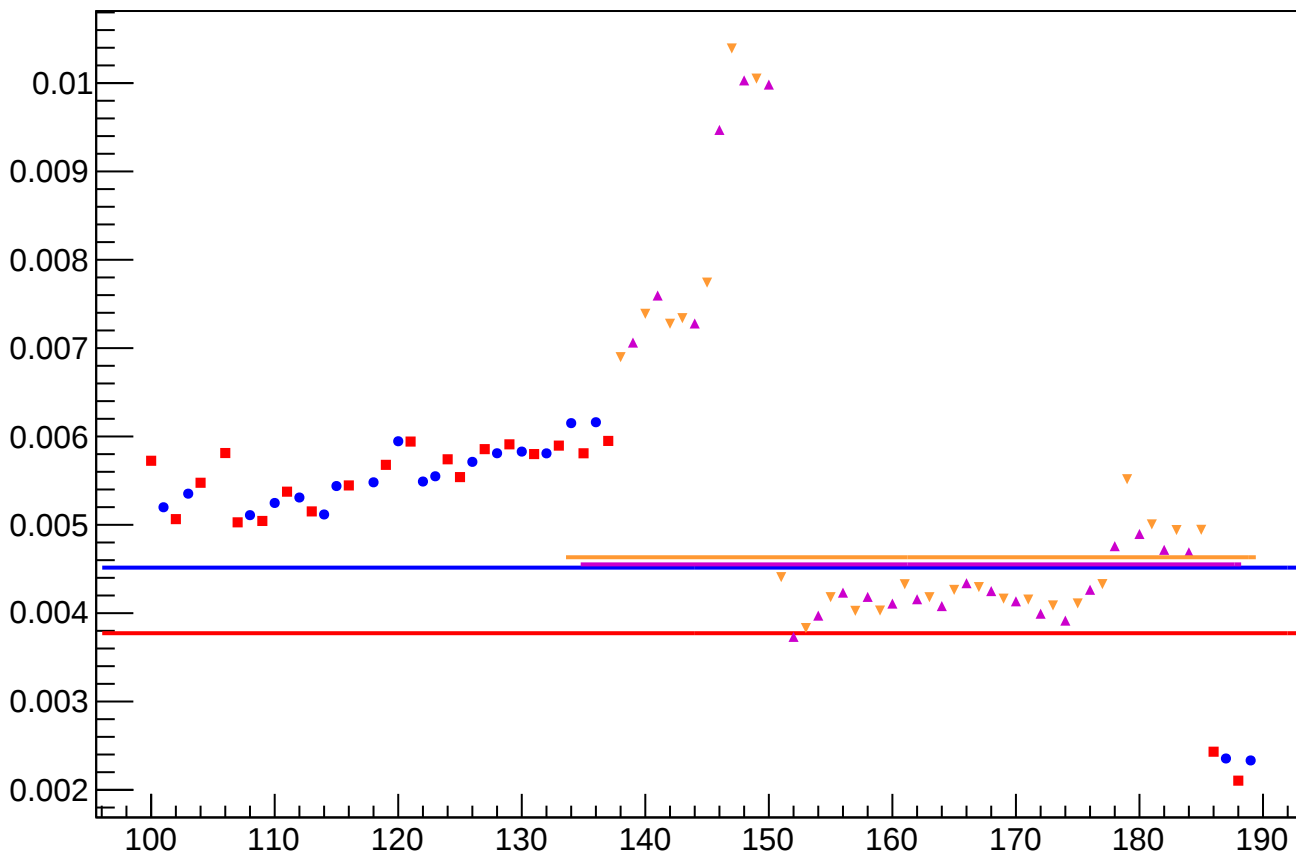
Right: 2.410+/-0.000 χ^2/NDF : 1872869485379.0/39

In: 1.151+/-0.000 χ^2/NDF : 2078949715404.3/41

Out: 1.157+/-0.000 χ^2/NDF : 2244676723618.0/45

All: 1.154+/-0.000 χ^2/NDF : 4323642596680.0/96

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2/NDF : 1504570.0/18

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF : 2114007.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 2701426.1/20

Left In: 0.005 $\pm$ 0.000 χ^2/NDF : 2237666.9/22

Left: 0.005 $\pm$ 0.000 χ^2/NDF : 4356682.7/47

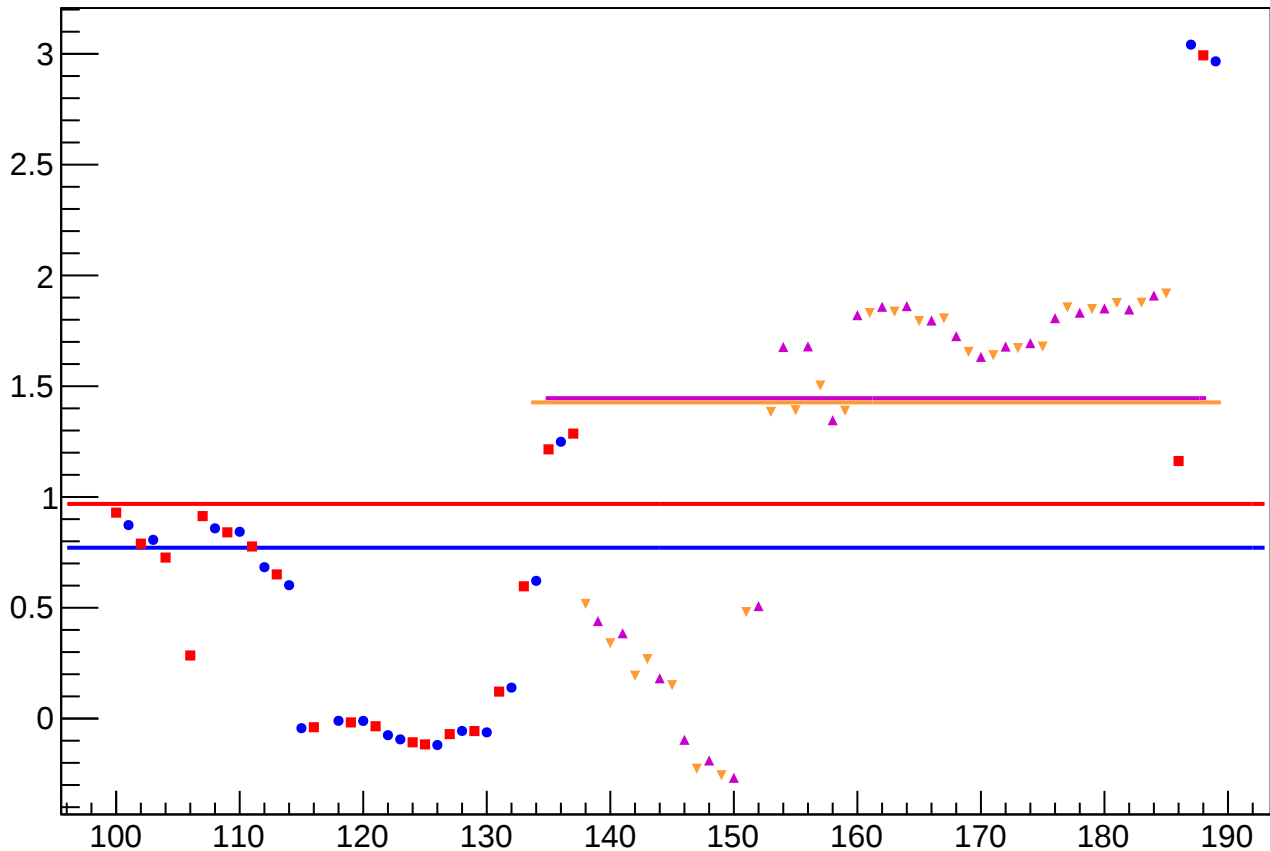
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 4416621.1/39

In: 0.005 $\pm$ 0.000 χ^2/NDF : 3742837.4/41

Out: 0.004 $\pm$ 0.000 χ^2/NDF : 5252354.4/45

All: 0.004 $\pm$ 0.000 χ^2/NDF : 9059464.8/87

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: 0.969+/-0.000 χ^2/NDF : 51642990387.6/20

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

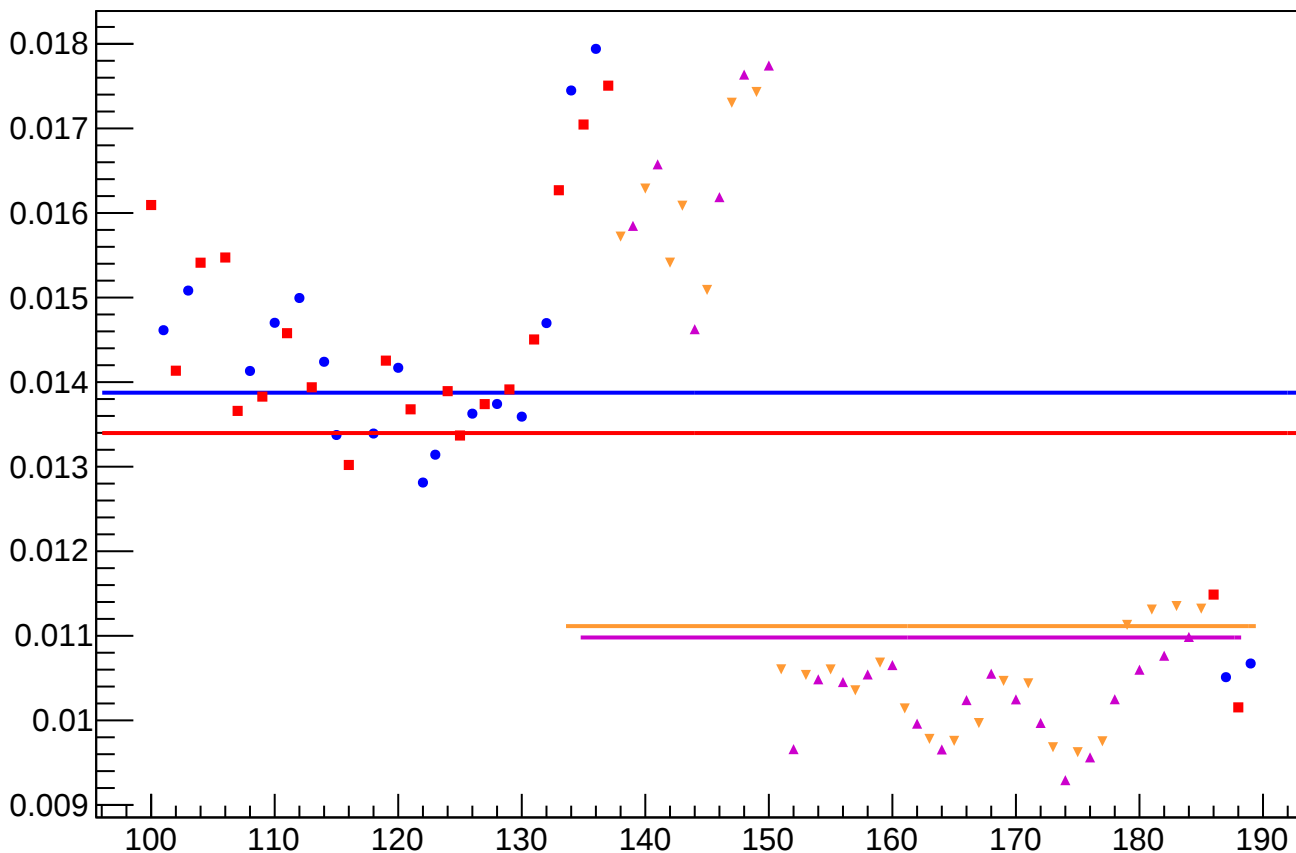
Right: 0.879+/-0.000 χ^2/NDF : 91471540441.5/39

In: 1.302+/-0.000 χ^2/NDF : 106124352339.9/41

Out: 1.317+/-0.000 χ^2/NDF : 108790910779.3/45

All: 1.310+/-0.000 χ^2/NDF : 214935209653.3

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 : 342011.2/20

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

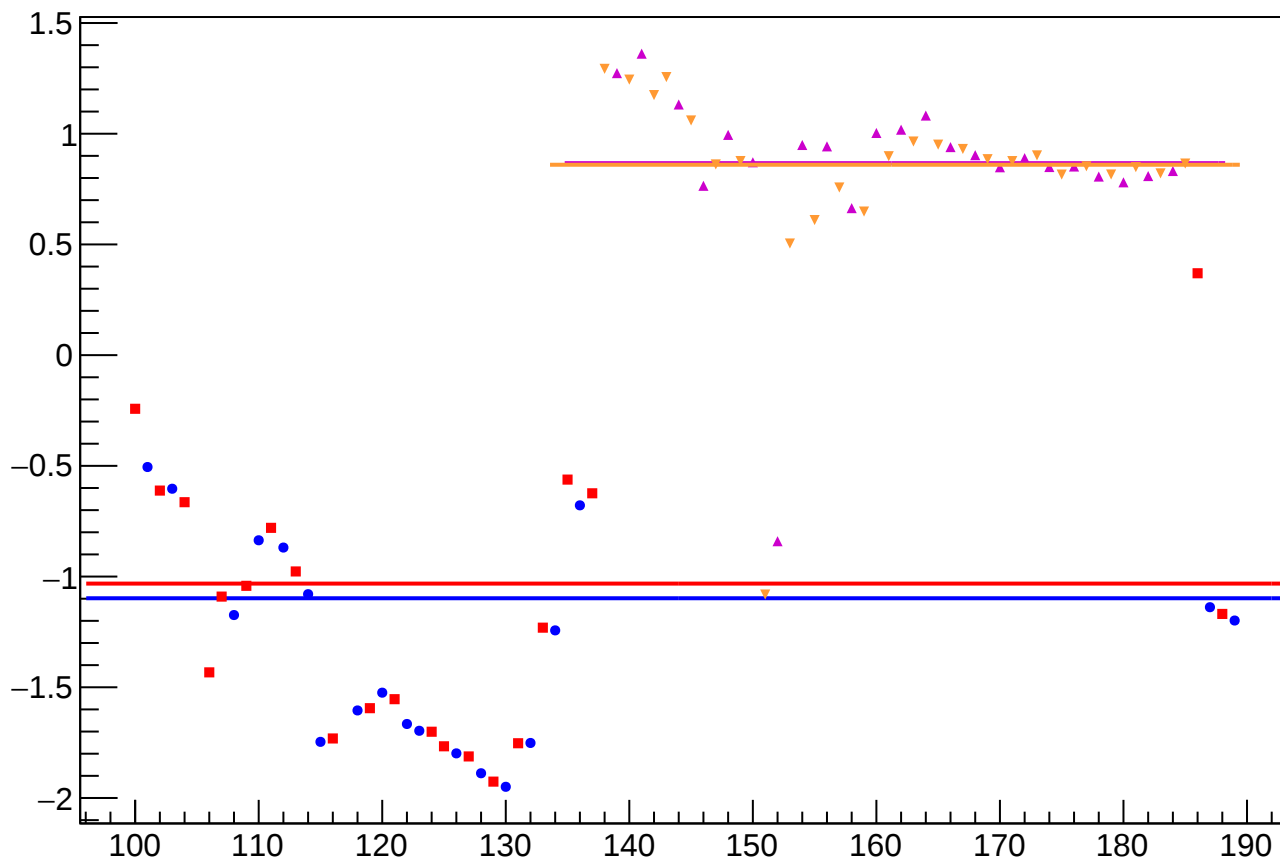
Right: 0.014+/-0.000 χ^2/NDF : 597711.4/39

In: 0.012+/-0.000 χ^2/NDF :2001723.2/41

Out: 0.012+/-0.000 χ^2/NDF :1924820.2/45

All: 0.012+/-0.000 χ^2/NDF : 3927305.7/87

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: -1.032 ± 0.000 $\chi^2/\text{NDF}: 62356704356.3/20$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

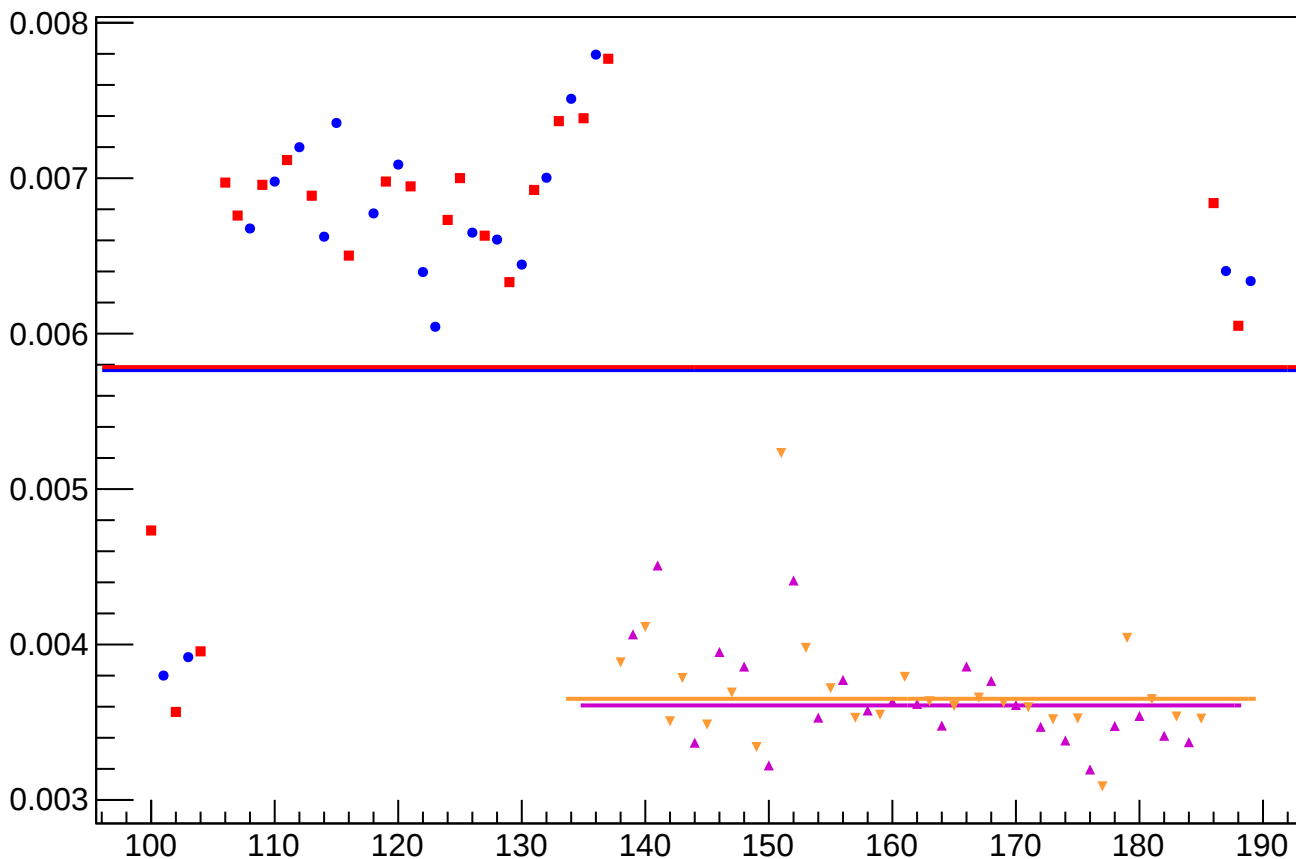
Right: -1.063 ± 0.000 $\chi^2/\text{NDF}: 118485376241.4/39$

In: 0.593 ± 0.000 $\chi^2/\text{NDF}: 854038329912.3/41$

Out: 0.577 ± 0.000 $\chi^2/\text{NDF}: 858918503452.9/45$

All: 0.585 ± 0.000 $\chi^2/\text{NDF}: 1713127025300.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 849287.1/18

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 943842.2/20

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 467360.2/47

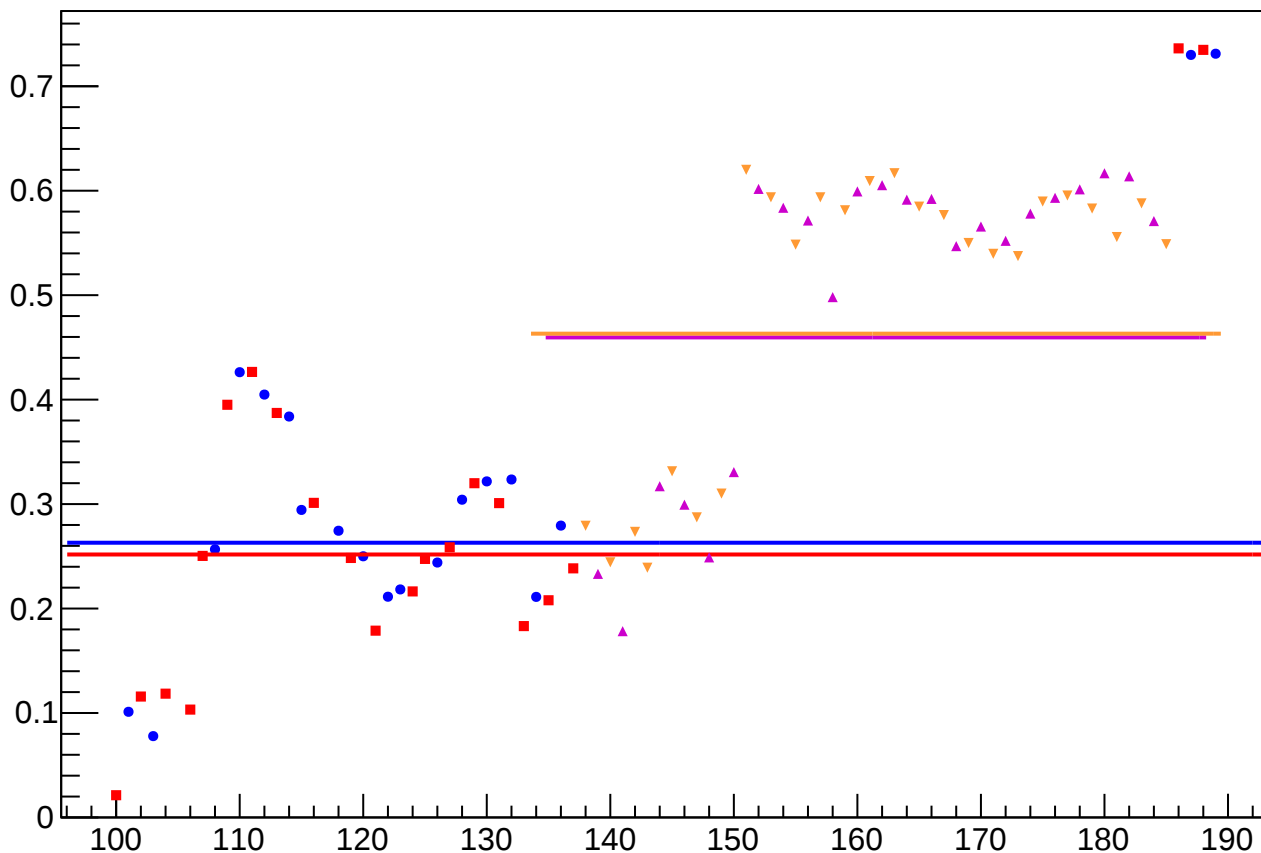
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 1793207.1/39

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2646890.5/41

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:2886941.9/45

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 5539028.3/87

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.263+/-0.000

χ^2/NDF : 29973995757.0/18

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

Right: 0.257+/-0.000 χ^2/NDF : 75503497759.3/39

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

In: 0.387+/-0.000 χ^2/NDF : 194705090077.1/41

Right Out: 0.252+/-0.000 χ^2/NDF : 45363085120.6/20

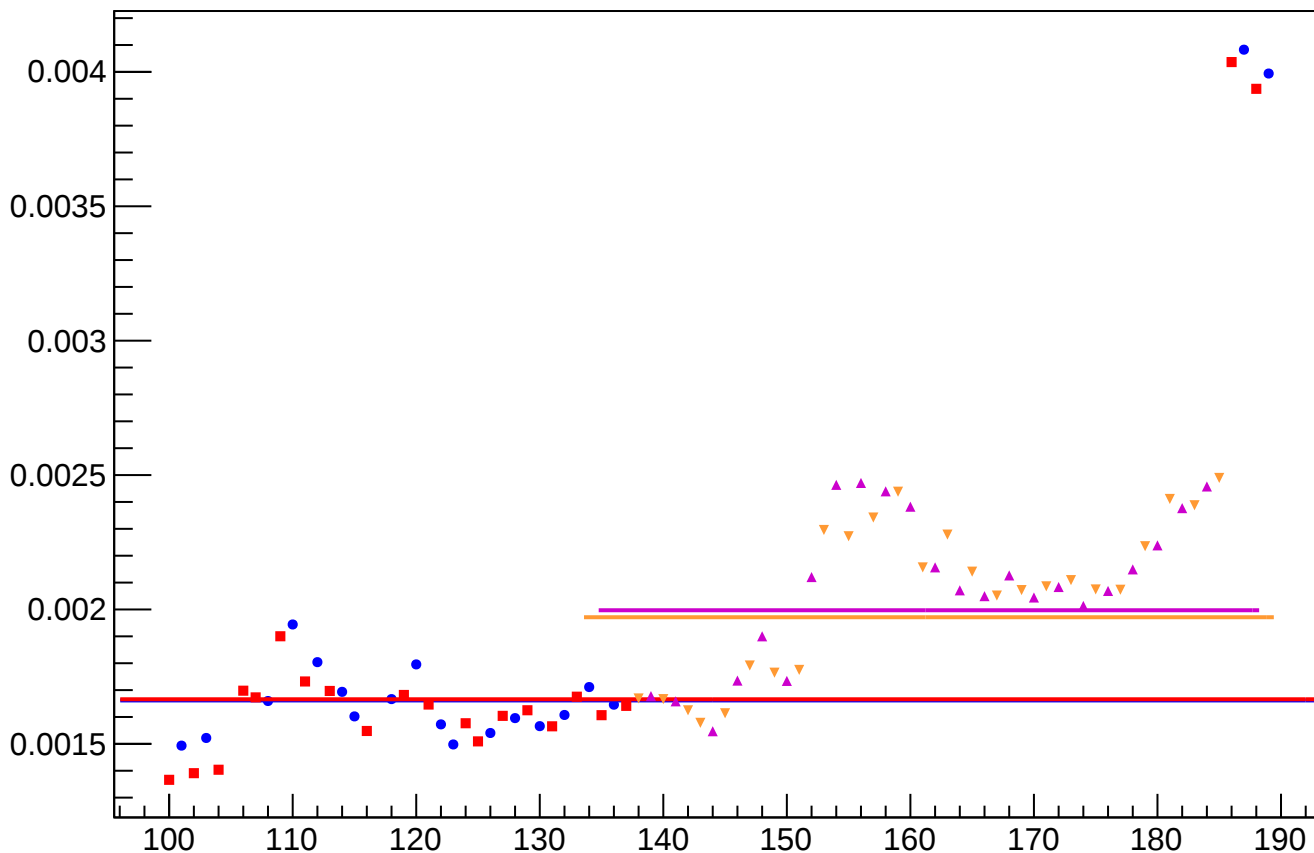
Out: 0.383+/-0.000 χ^2/NDF : 225565521269.3/45

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.385+/-0.000 χ^2/NDF : 420314566464.4

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 : 964908.2/20

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

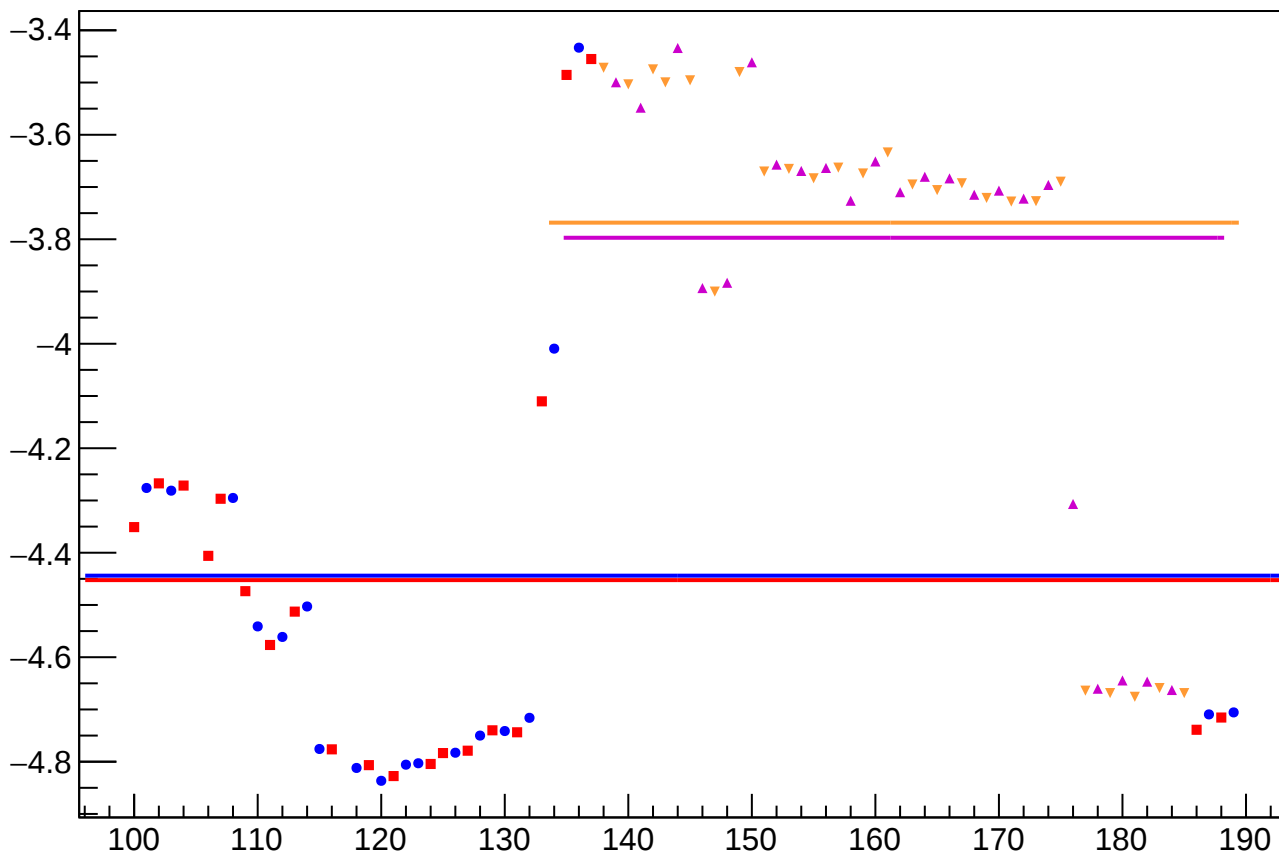
Right: 0.002+/-0.000 χ^2/NDF : 1455843.8/39

In: 0.002+/-0.000 χ^2/NDF : 1507955.2/41

Out: 0.002+/-0.000 χ^2/NDF : 2018993.7/45

All: 0.002+/-0.000 χ^2/NDF : 3529008.4/87

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: -4.452 $\pm$ 0.000 χ^2 /NDF: 335020001985.5/20

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

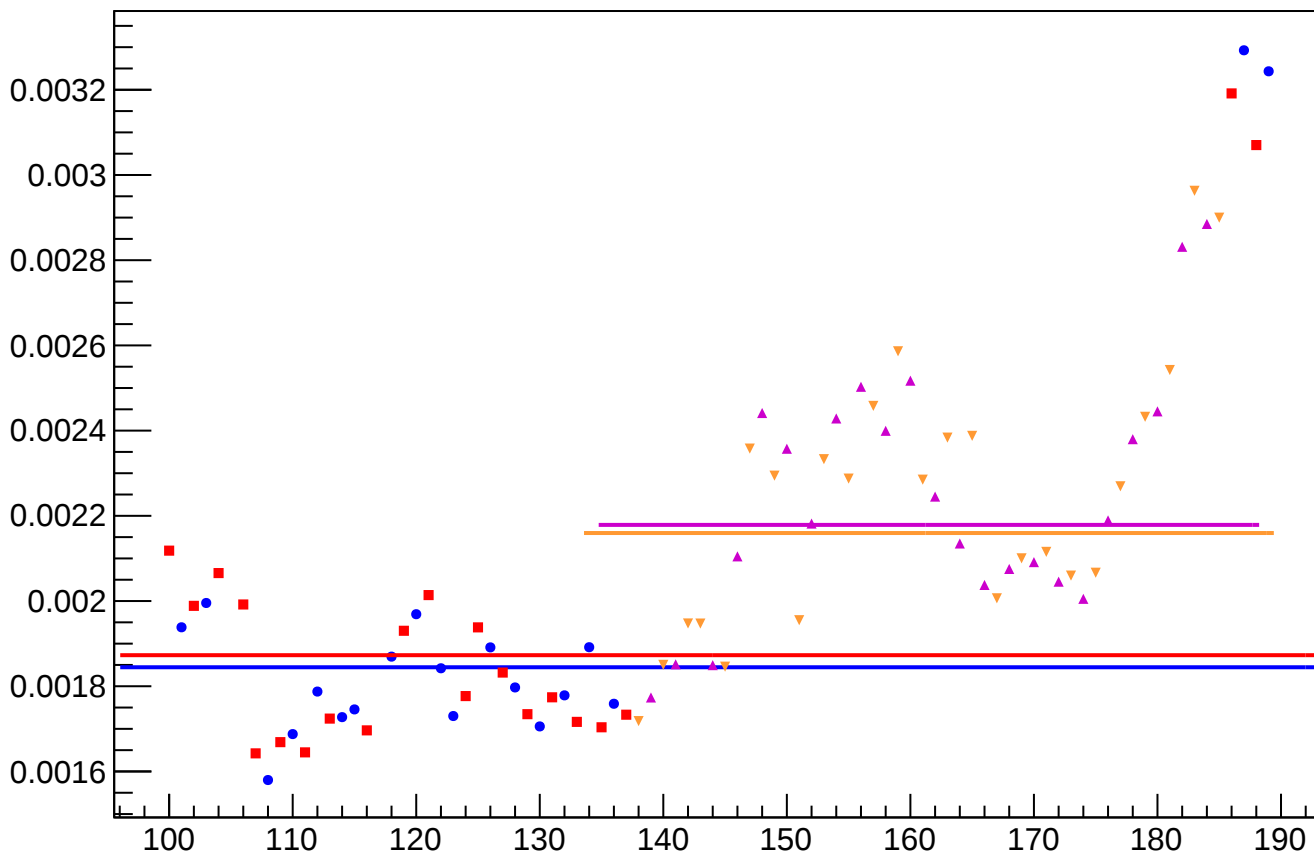
Right: -4.448 $\pm$ 0.000 χ^2 /NDF: 731643644245.3/39

In: -4.034 $\pm$ 0.000 χ^2 /NDF: 1385051972839.8/41

Out: -4.022 $\pm$ 0.000 χ^2 /NDF: 1514616440978.3/45

All: -4.028 $\pm$ 0.000 χ^2 /NDF: 2900061935132

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 : 501330.1/20

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

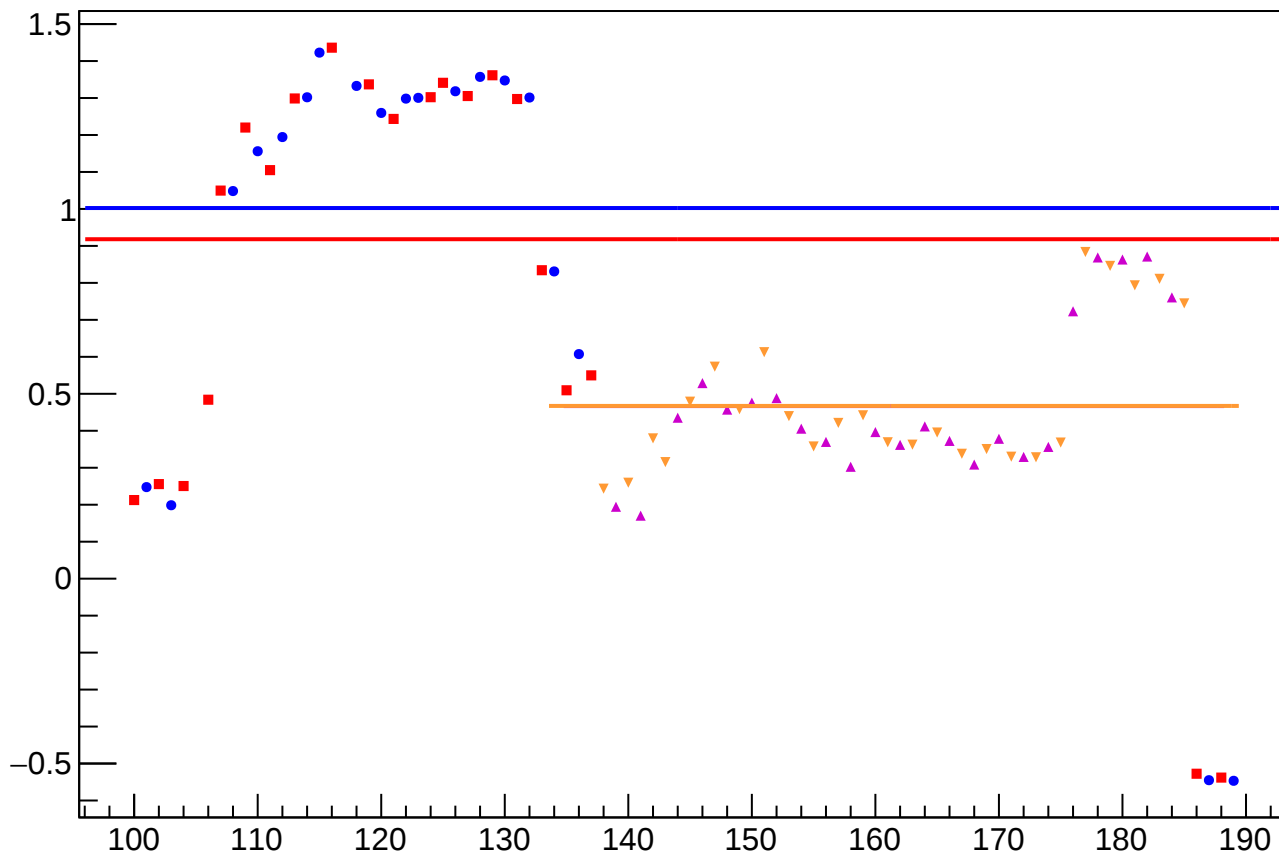
Right: 0.002+/-0.000 χ^2/NDF : 785667.2/39

In: 0.002+/-0.000 χ^2/NDF :1036106.8/41

Out: 0.002+/-0.000 χ^2/NDF :1281965.2/45

All: 0.002+/-0.000 χ^2/NDF : 2318132.8/87

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: 0.918 $\pm$ 0.000 χ^2 /NDF: 47518481331.8/20

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

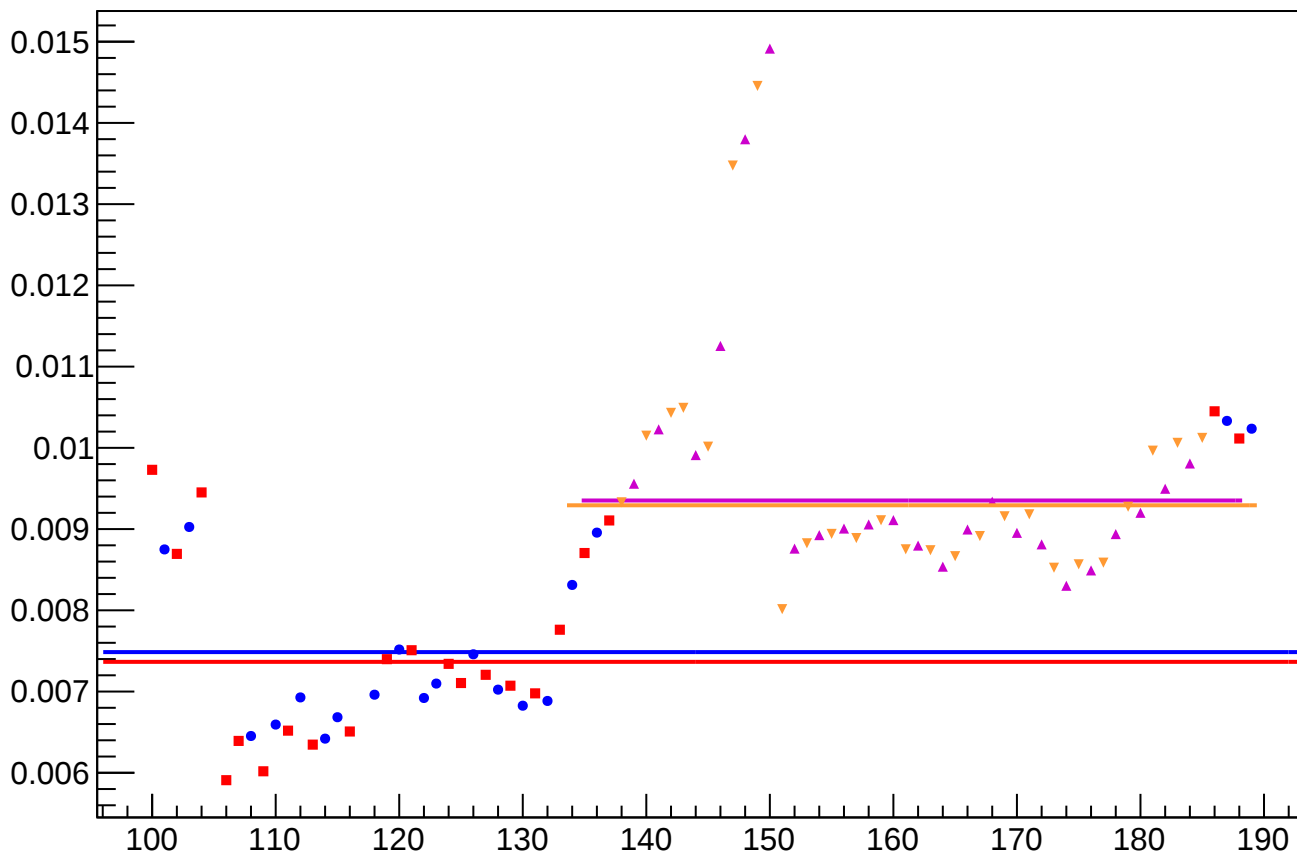
Right: 0.957 $\pm$ 0.000 χ^2 /NDF: 80601794089.2/39

In: 0.679 $\pm$ 0.000 χ^2 /NDF: 62754400387.5/41

Out: 0.655 $\pm$ 0.000 χ^2 /NDF: 72596236040.3/45

All: 0.667 $\pm$ 0.000 χ^2 /NDF: 135449936610.8

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 : 473501.1/20

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

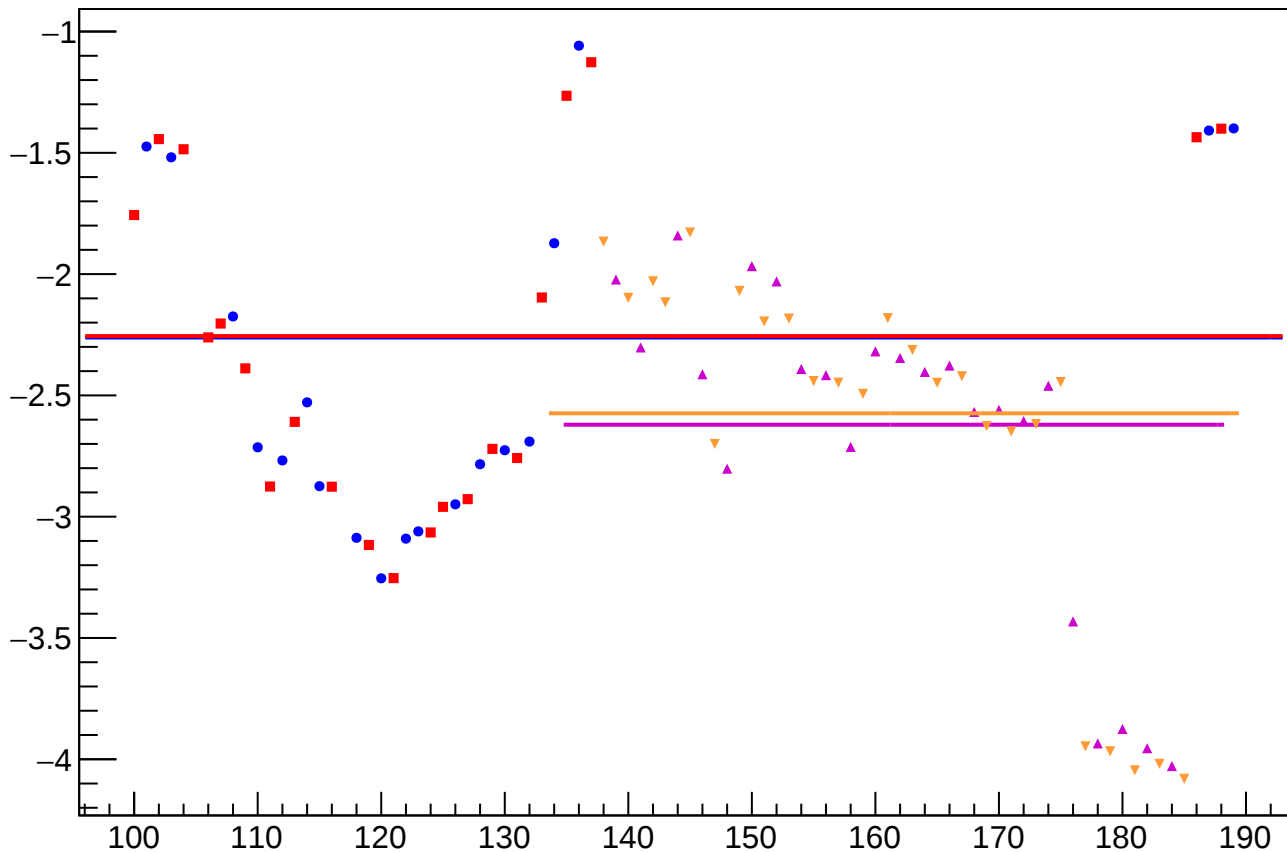
Right: 0.007+/-0.000 χ^2/NDF : 753082.5/39

In: 0.009+/-0.000 χ^2/NDF :1372383.2/41

Out: 0.008+/-0.000 χ^2/NDF :1649207.2/45

All: 0.009+/-0.000 χ^2/NDF : 3026648.9/87

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: -2.255+/-0.000 χ^2/NDF : 75420351029.4/20

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

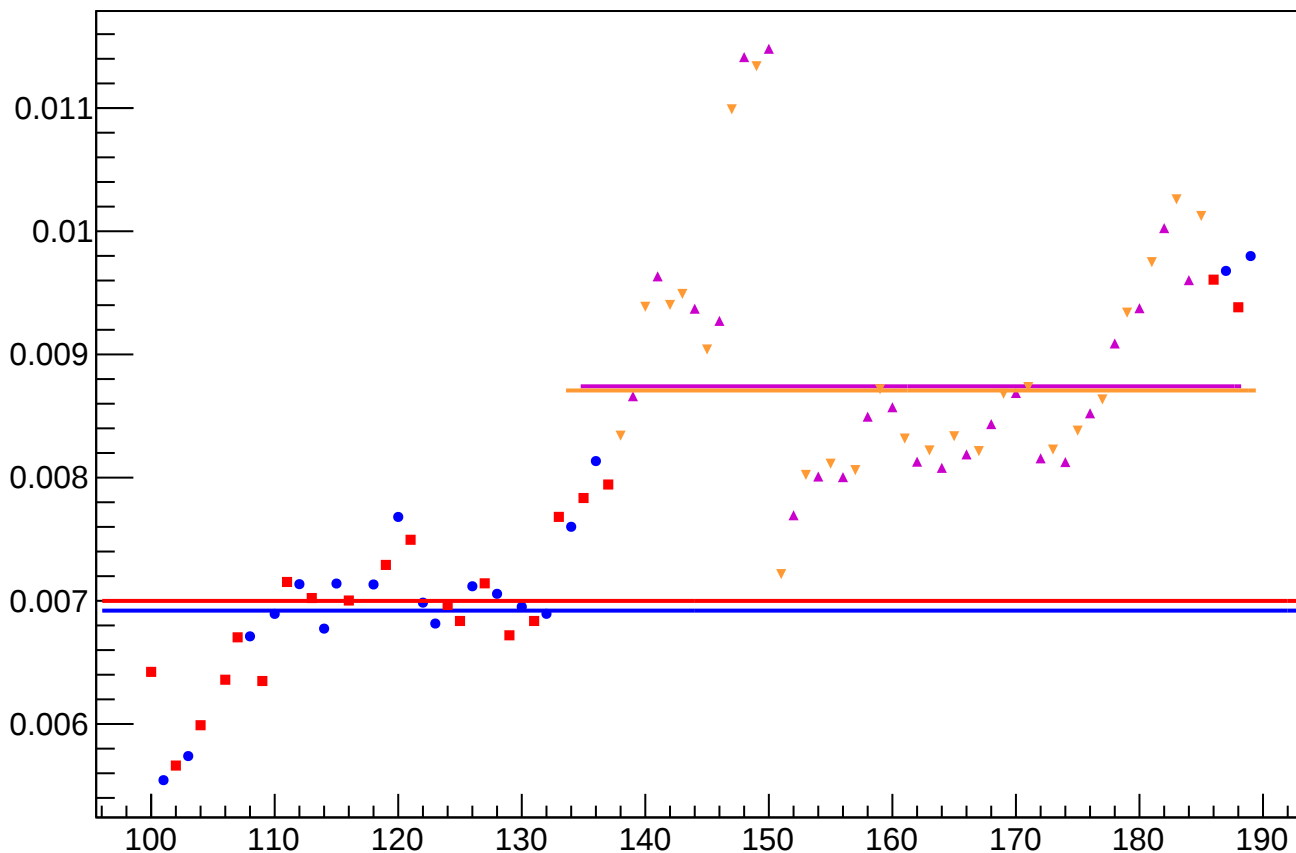
Right: -2.258+/-0.000 χ^2/NDF : 154073166774.9/39

In: -2.477+/-0.000 χ^2/NDF : 171134488554.6/41

Out: -2.443+/-0.000 χ^2/NDF : 184584157945.3/45

All: -2.459+/-0.000 χ^2/NDF : 355944692972.1

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 : 309622.6/20

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

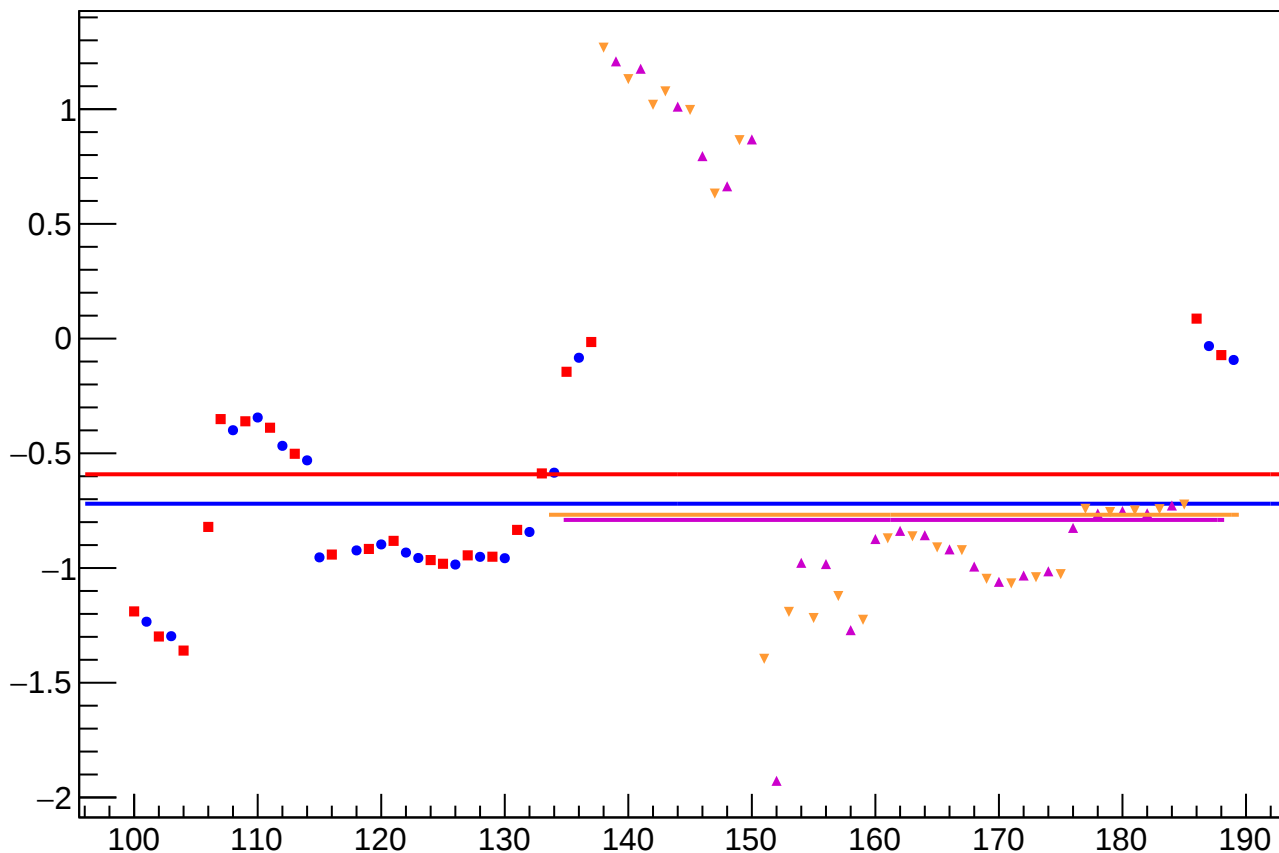
Right: 0.007+/-0.000 χ^2/NDF : 587269.4/39

In: 0.008+/-0.000 χ^2/NDF : 1226322.5/41

Out: 0.008+/-0.000 χ^2/NDF : 1254462.8/45

All: 0.008+/-0.000 χ^2/NDF : 2480805.0/87

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: -0.591+/-0.000 χ^2/NDF : 17233122353.2/20

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

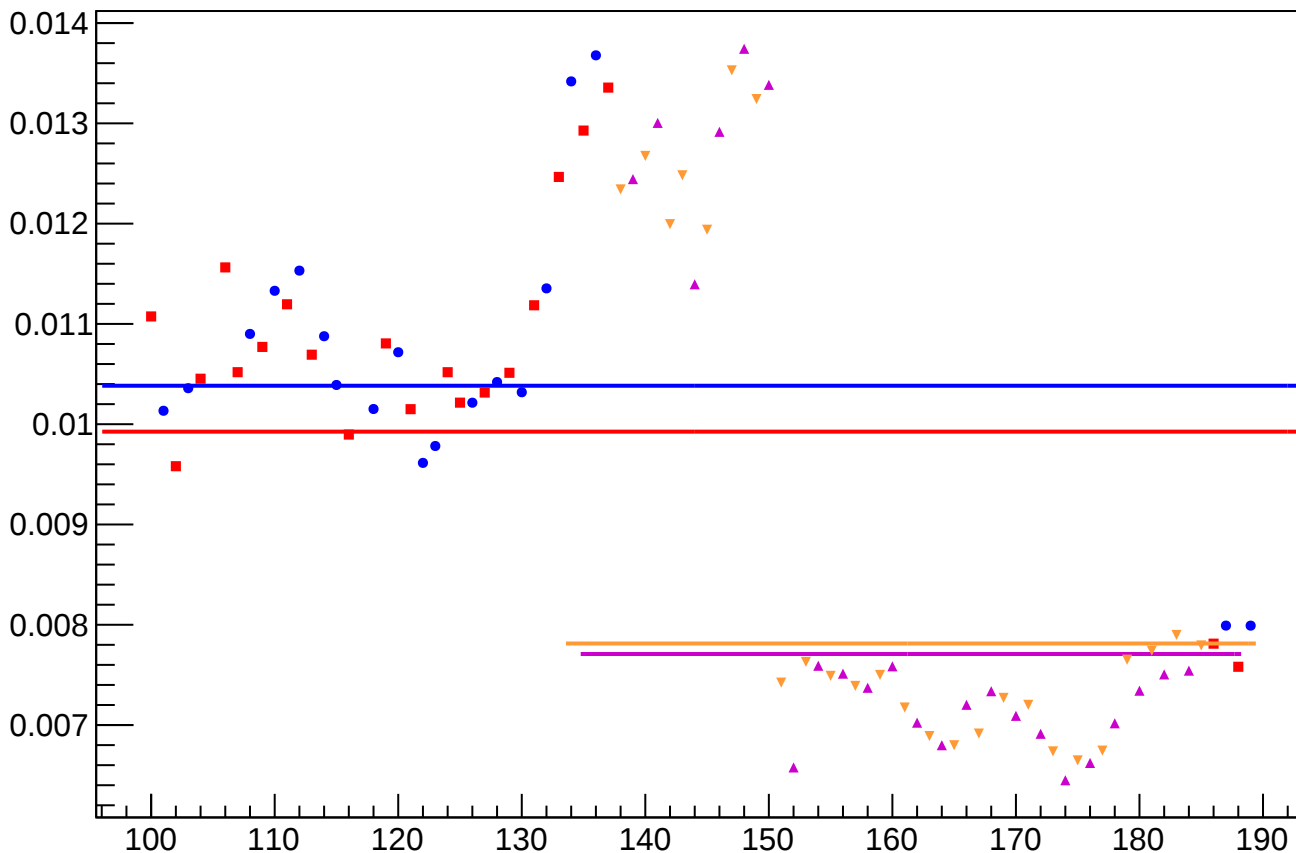
Right: -0.649+/-0.000 χ^2/NDF : 29230119117.7/39

In: -0.777+/-0.000 χ^2/NDF : 135116180576.6/41

Out: -0.728+/-0.000 χ^2/NDF : 139964557081.5/45

All: -0.752+/-0.000 χ^2/NDF : 275486409464.8

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 : 393772.1/20

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

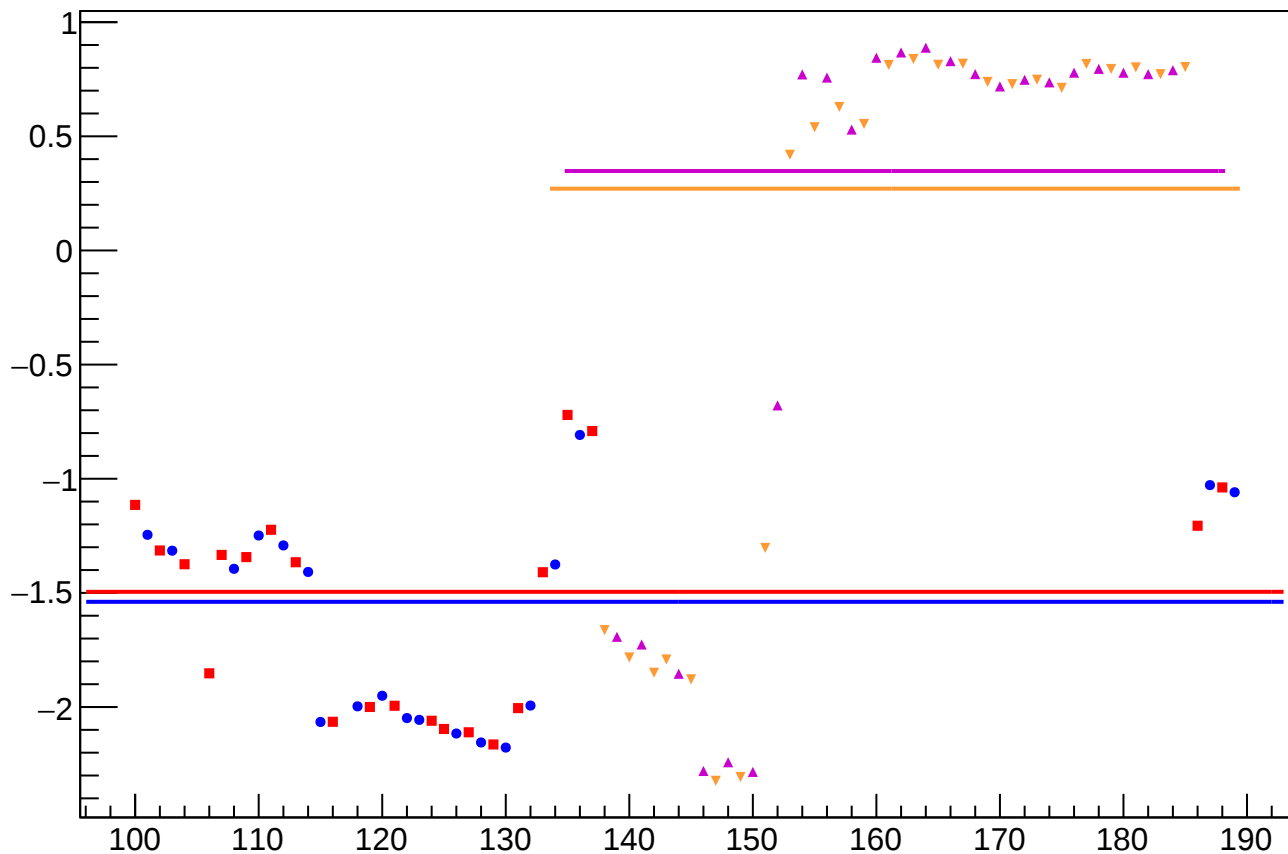
Right: 0.010+/-0.000 χ^2/NDF : 664840.1/39

In: 0.008+/-0.000 χ^2/NDF :2761797.8/41

Out: 0.008+/-0.000 χ^2/NDF :2661207.0/45

All: 0.008+/-0.000 χ^2/NDF : 5424052.2/87

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: -1.495+/-0.000 χ^2/NDF : 148414043694.3/20

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

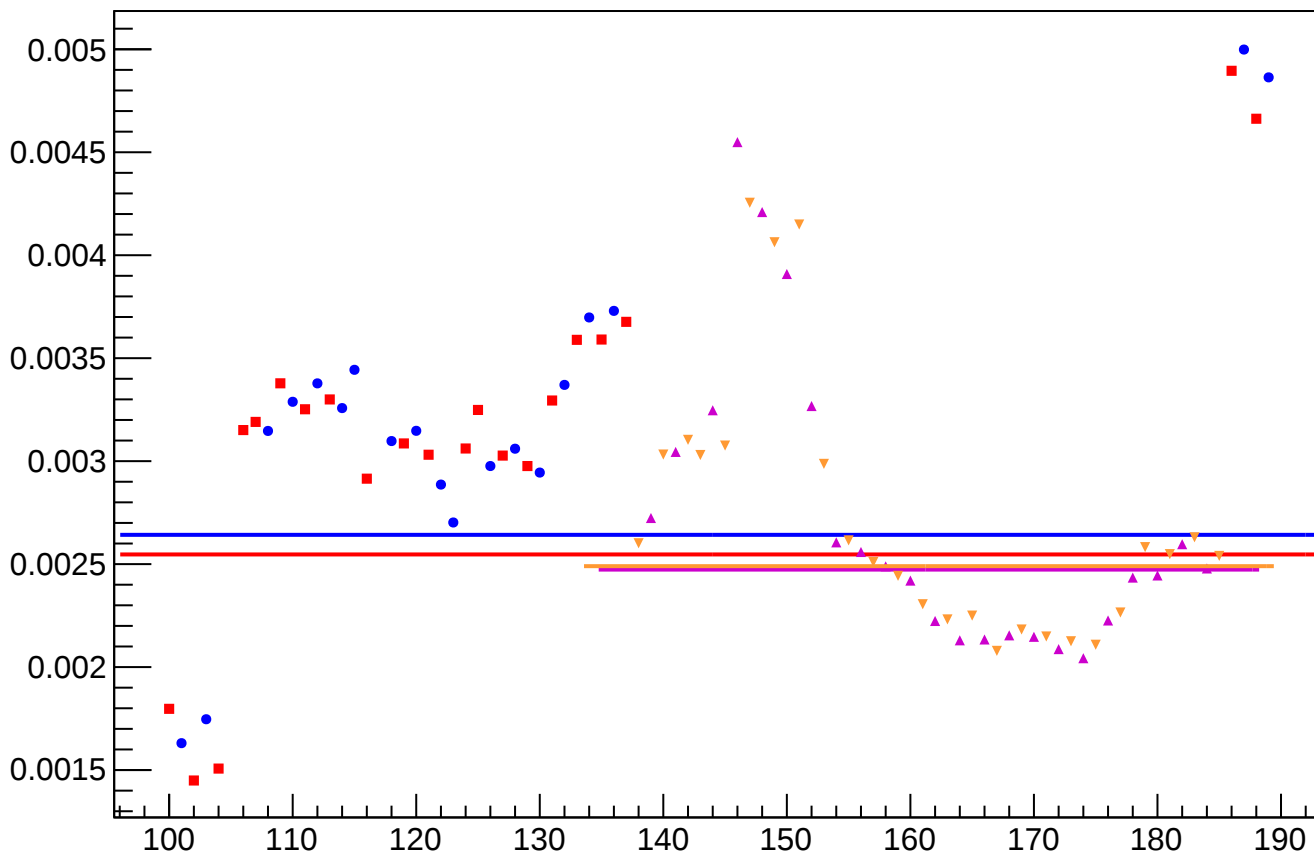
Right: -1.516+/-0.000 χ^2/NDF : 309322154952.5/39

In: -0.144+/-0.000 χ^2/NDF : 4738695214328.4/41

Out: -0.224+/-0.000 χ^2/NDF : 5023117430680.8/45

All: -0.186+/-0.000 χ^2/NDF : 9773022869756

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: 2048018.3/20

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

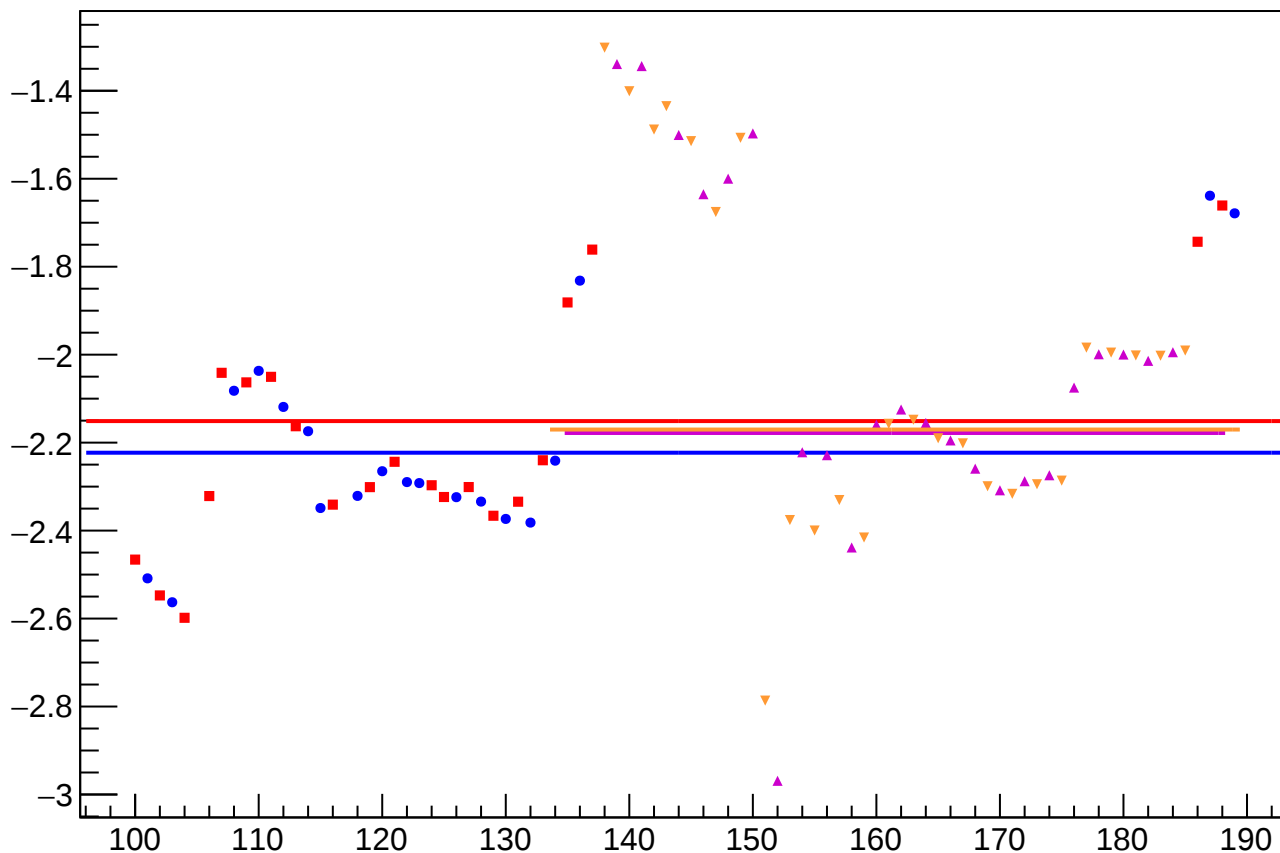
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 3337491.4/39

In: 0.003 $\pm$ 0.000 χ^2 /NDF:2453073.0/41

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:3123062.9/45

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 5576592.2/87

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: -2.151+/-0.000 χ^2/NDF : 19294383984.3/20

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

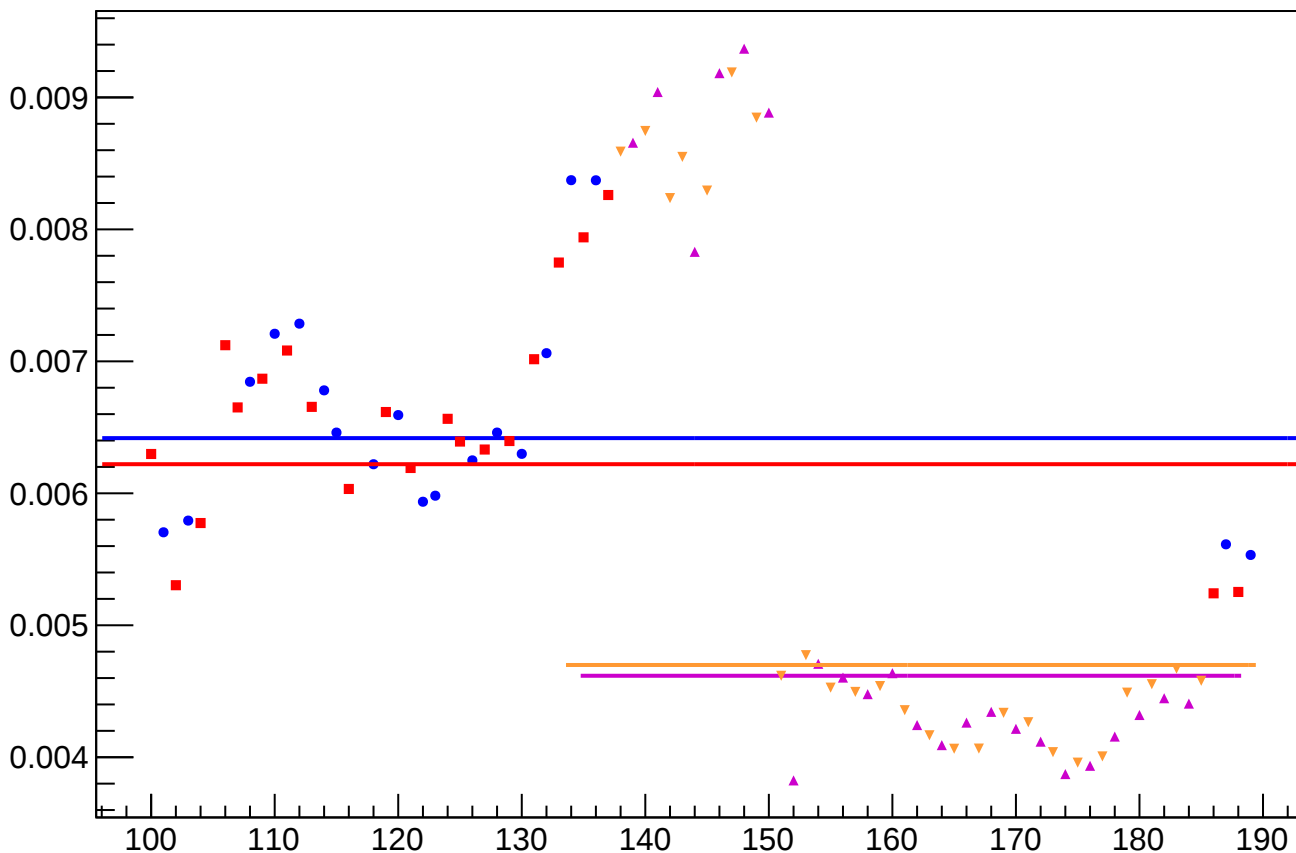
Right: -2.184+/-0.000 χ^2/NDF : 32520493700.7/39

In: -2.187+/-0.000 χ^2/NDF : 86424428673.1/41

Out: -2.166+/-0.000 χ^2/NDF : 79321451917.6/45

All: -2.176+/-0.000 χ^2/NDF : 165940031810.5

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 : 273399.0/20

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

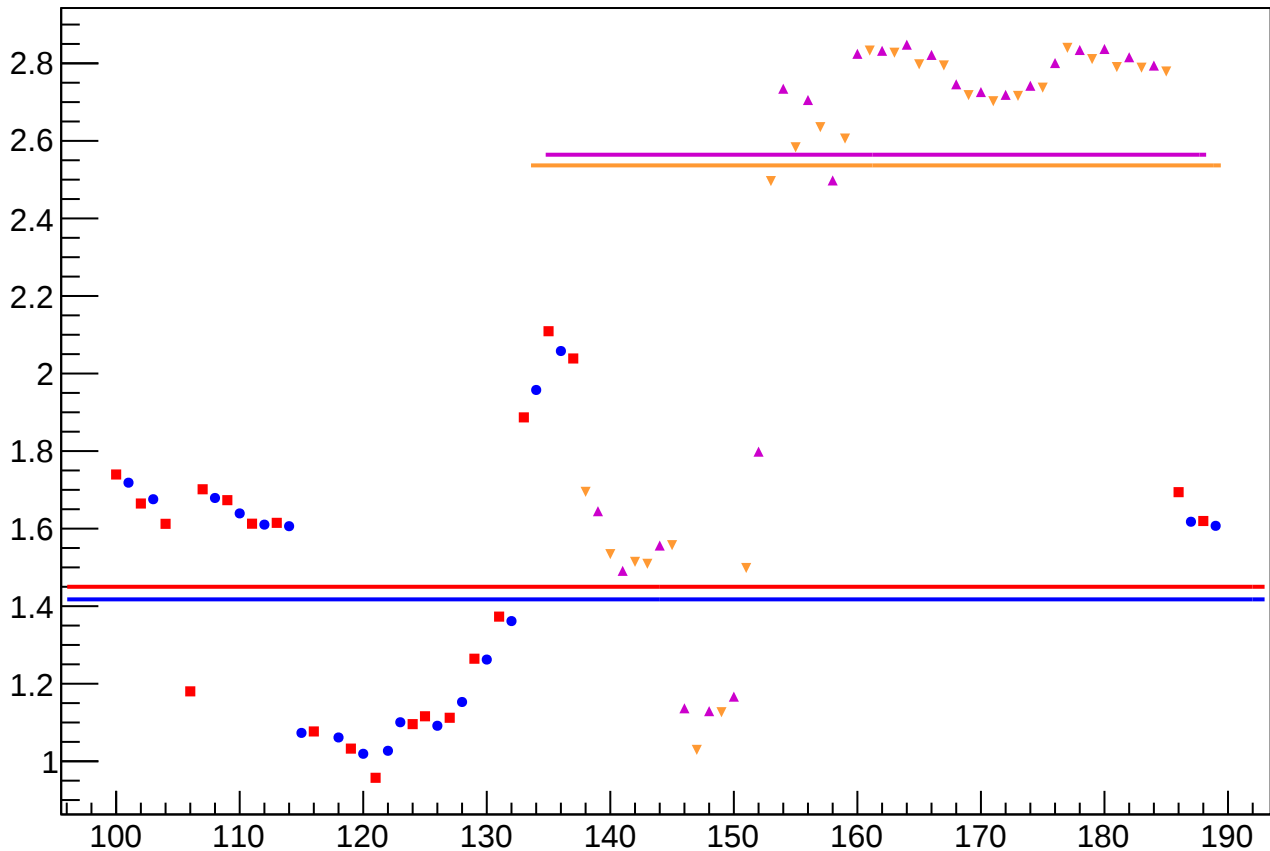
Right: 0.006+/-0.000 χ^2/NDF : 490354.4/39

In: 0.005+/-0.000 χ^2/NDF :3476001.8/41

Out: 0.005+/-0.000 χ^2/NDF :3341478.2/45

All: 0.005+/-0.000 χ^2/NDF : 6821609.6/87

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: 1.450+/-0.000 χ^2/NDF : 174800248912.2/20

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

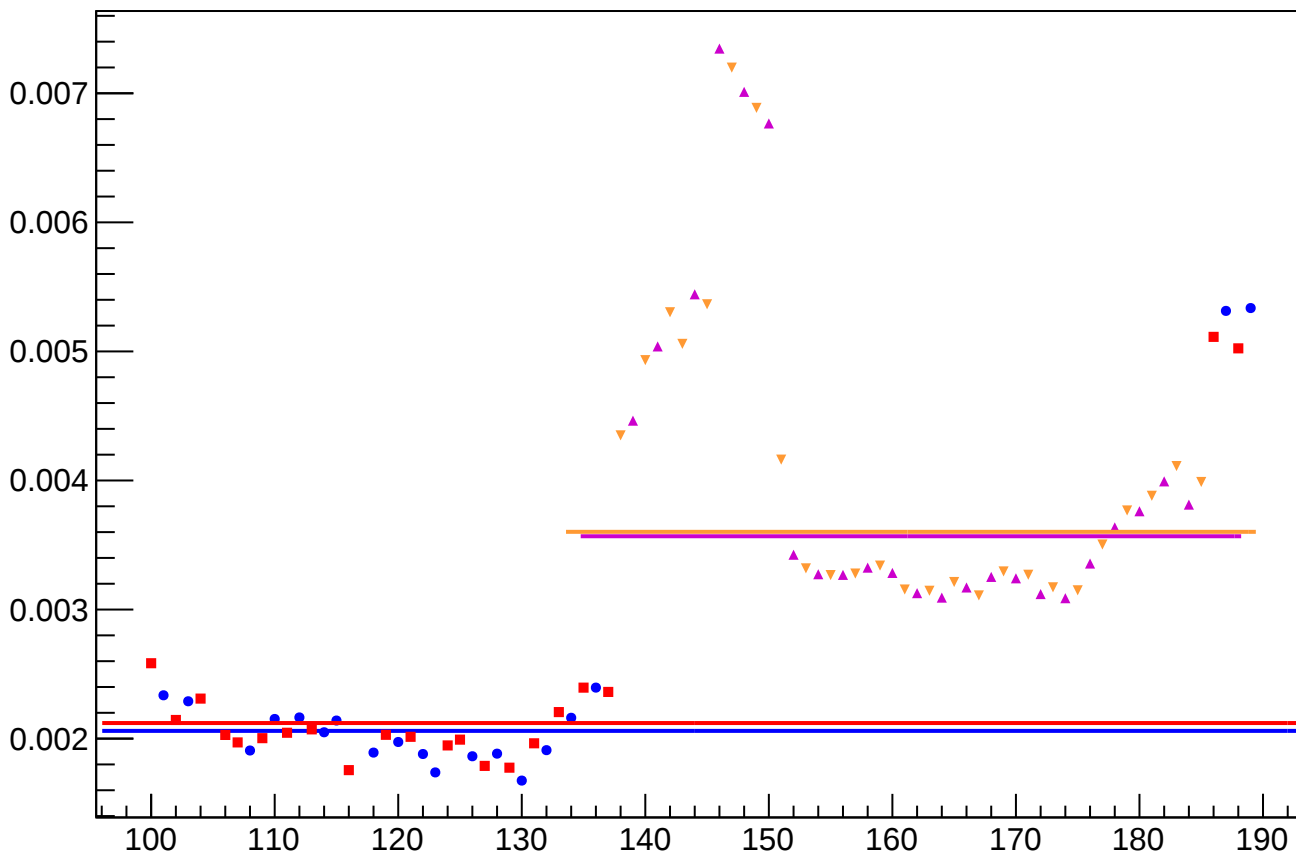
Right: 1.434+/-0.000 χ^2/NDF : 348189205453.9/39

In: 1.926+/-0.000 χ^2/NDF : 1330323863916.5/41

Out: 1.931+/-0.000 χ^2/NDF : 1292212864185.1/45

All: 1.929+/-0.000 χ^2/NDF : 2622573493448.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 624860.8/18

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1410717.8/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 982021.6/20

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1563028.0/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 2975225.3/47

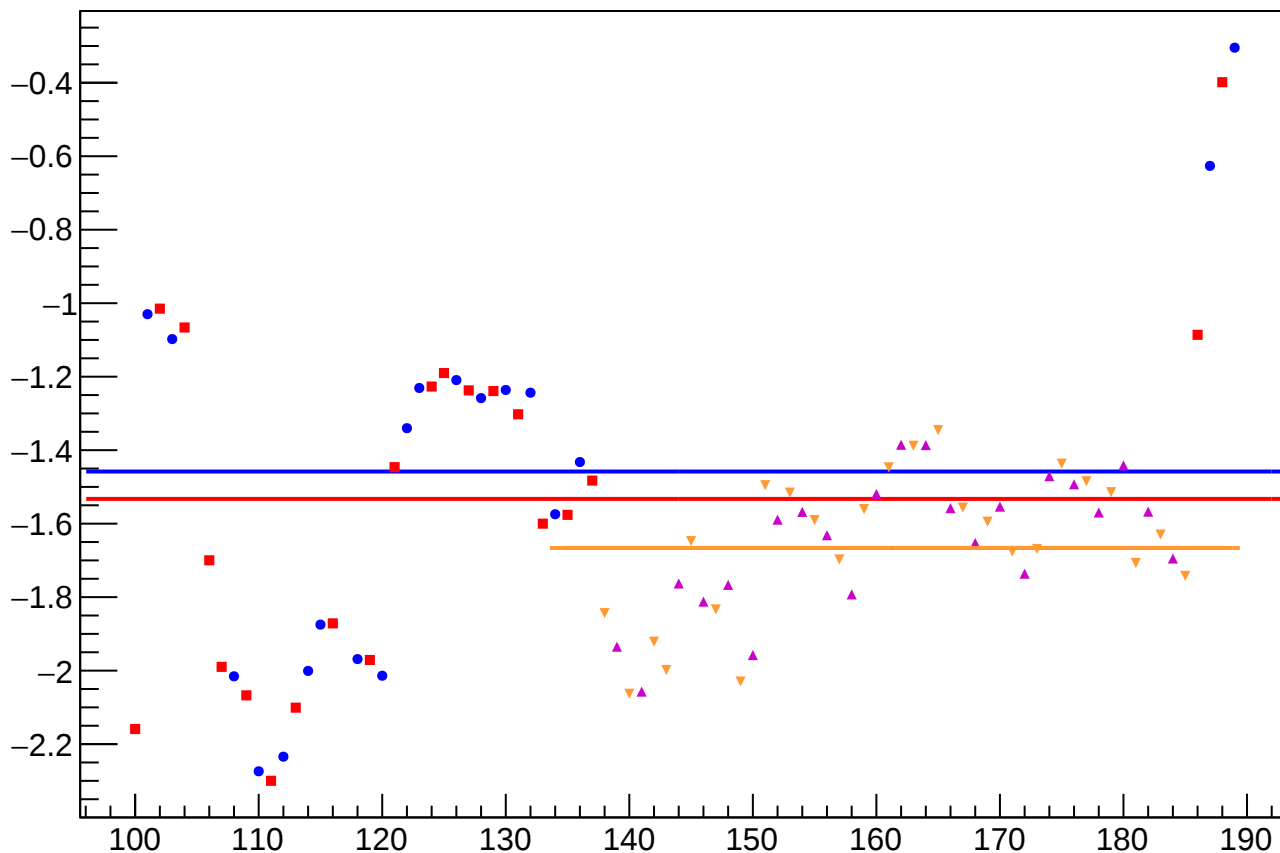
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 1612721.8/39

In: 0.003 $\pm$ 0.000 χ^2 /NDF:5291785.8/41

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:5544226.1/45

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 10842545.5/87

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: -1.533+/-0.000 χ^2/NDF : 41877100994.5/20

Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

Left: -1.666+/-0.000 χ^2/NDF : 32617732948.1/47

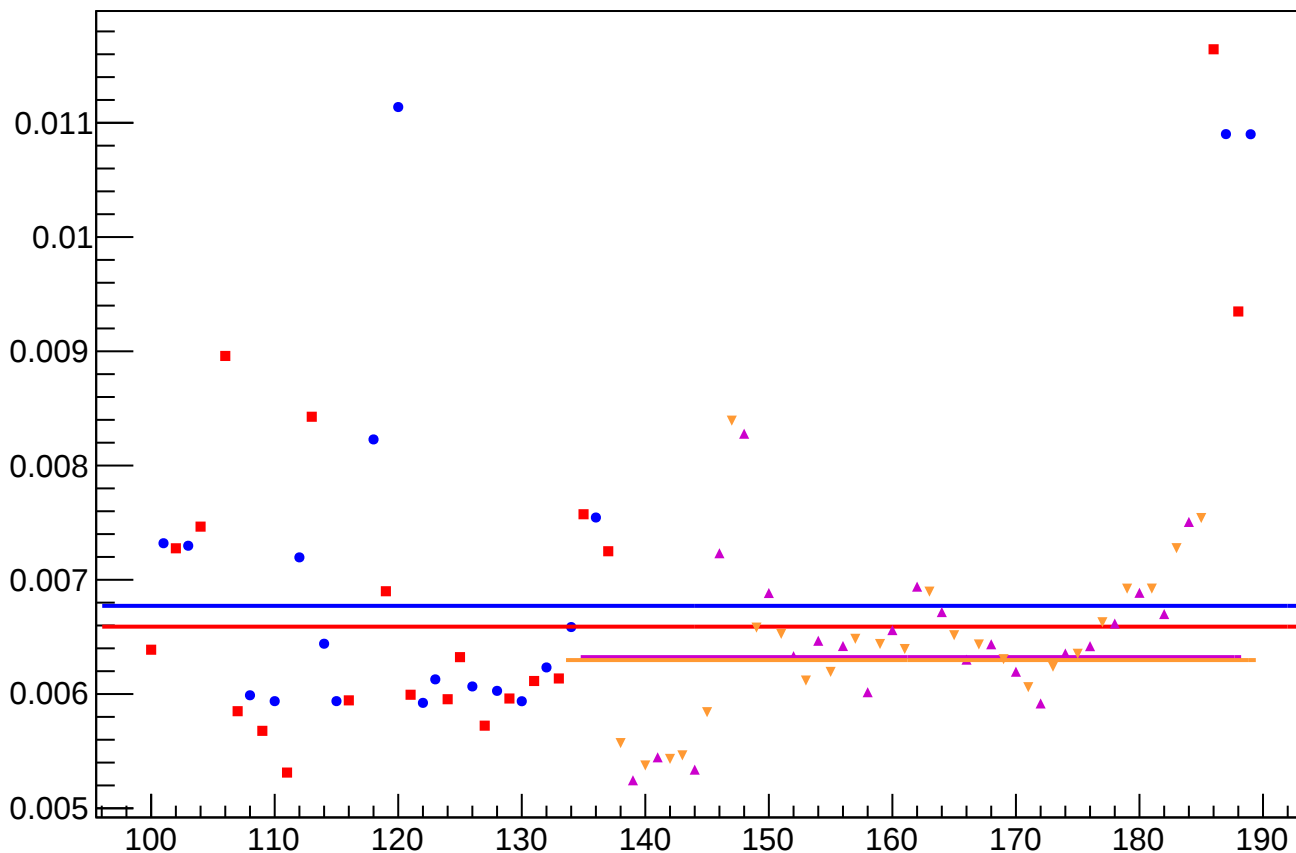
Right: -1.499+/-0.000 χ^2/NDF : 70824262189.9/39

In: -1.612+/-0.000 χ^2/NDF : 47393189164.4/41

Out: -1.628+/-0.000 χ^2/NDF : 62440388233.2/45

All: -1.621+/-0.000 χ^2/NDF : 109906392569.4

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 : 526873.8/20

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

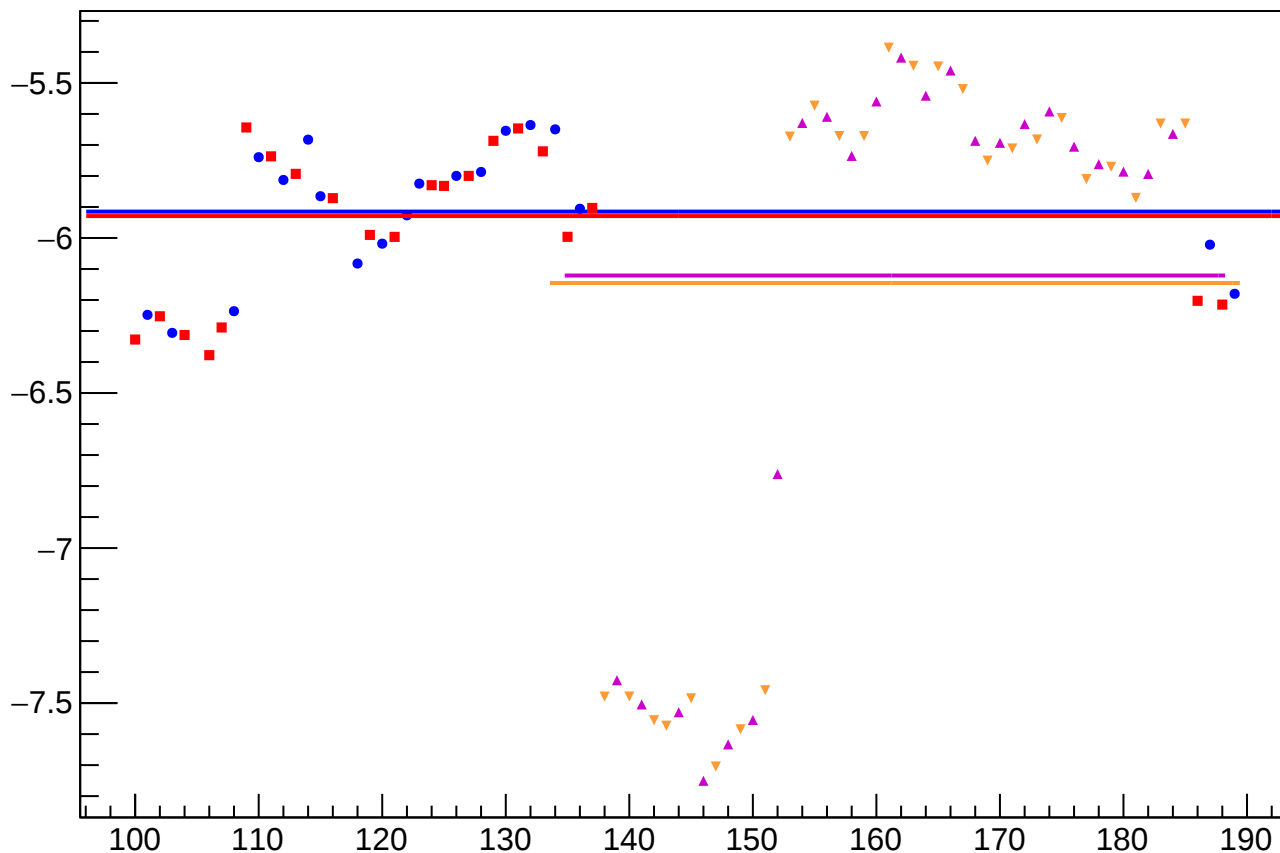
Right: 0.007+/-0.000 χ^2/NDF : 937067.9/39

In: 0.006+/-0.000 χ^2/NDF :778555.5/41

Out: 0.006+/-0.000 χ^2/NDF :859133.6/45

All: 0.006+/-0.000 χ^2/NDF : 1639697.3/87

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: -5.929+/-0.000 χ^2/NDF : 13457752850.3/20

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

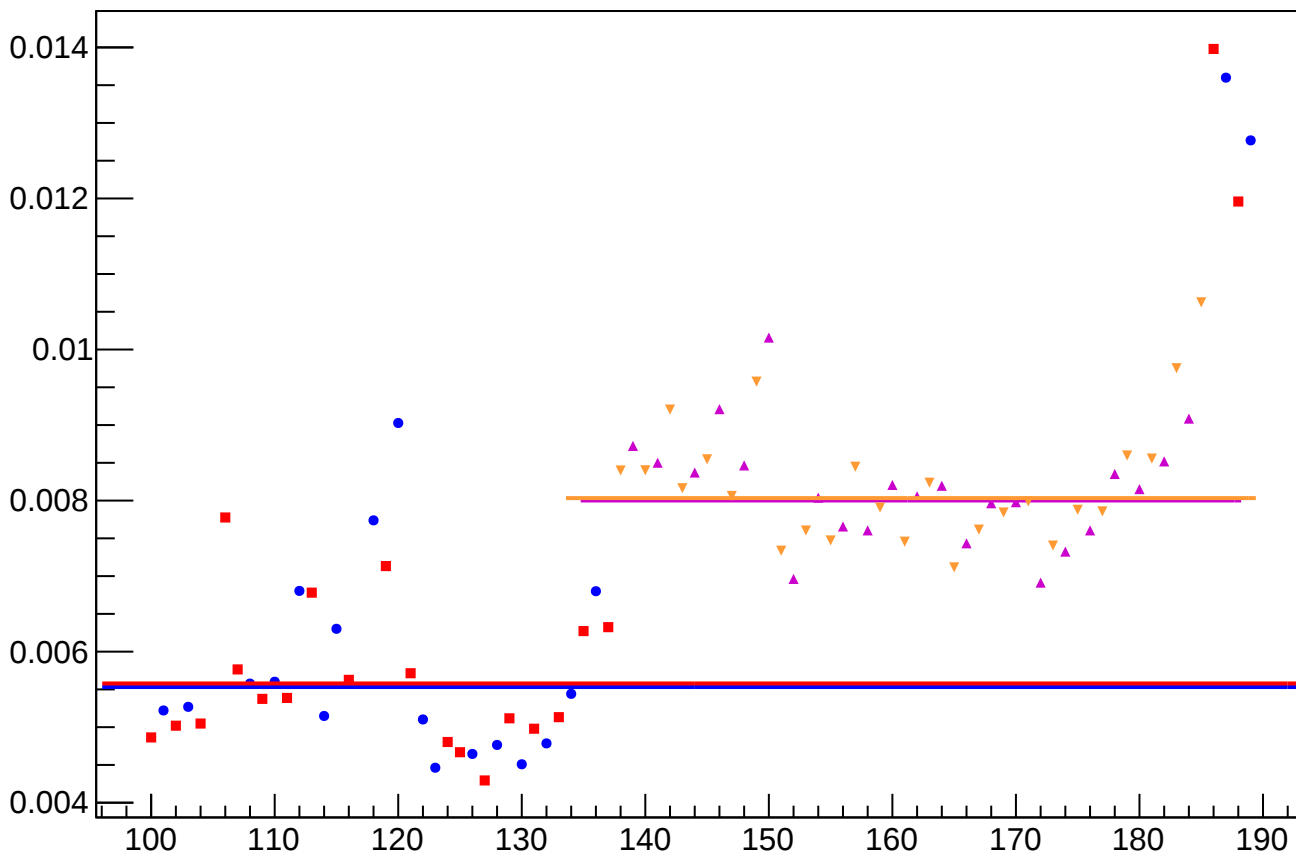
Right: -5.923+/-0.000 χ^2/NDF : 24826802812.6/39

In: -6.027+/-0.000 χ^2/NDF : 174422954267.1/41

Out: -6.043+/-0.000 χ^2/NDF : 204483709251.0/45

All: -6.036+/-0.000 χ^2/NDF : 378964705981.1

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 : 1014927.6/20

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

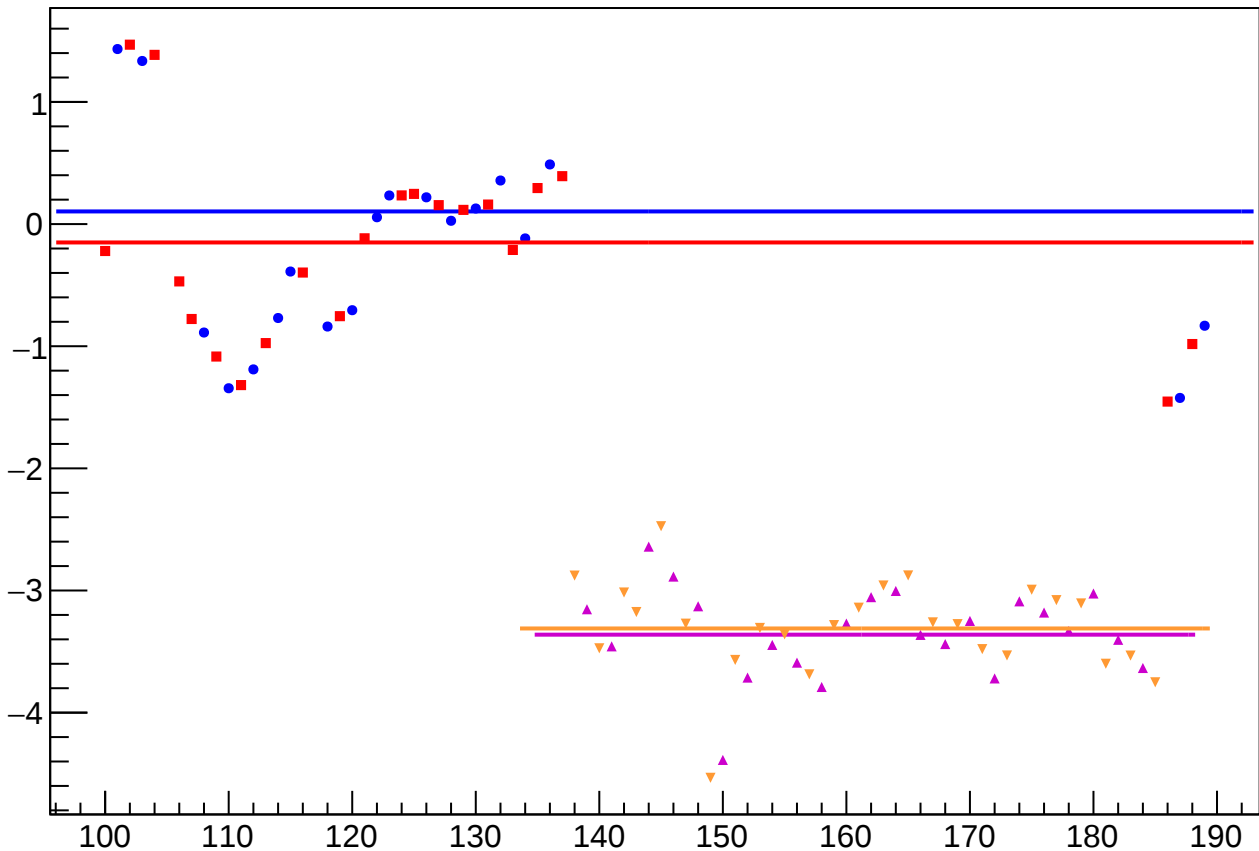
Right: 0.006+/-0.000 χ^2/NDF : 1786560.4/39

In: 0.007+/-0.000 χ^2/NDF :2359776.6/41

Out: 0.007+/-0.000 χ^2/NDF :2684579.7/45

All: 0.007+/-0.000 χ^2/NDF : 5044374.2/87

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: -0.150+/-0.000 χ^2/NDF : 25279011175.5/20

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

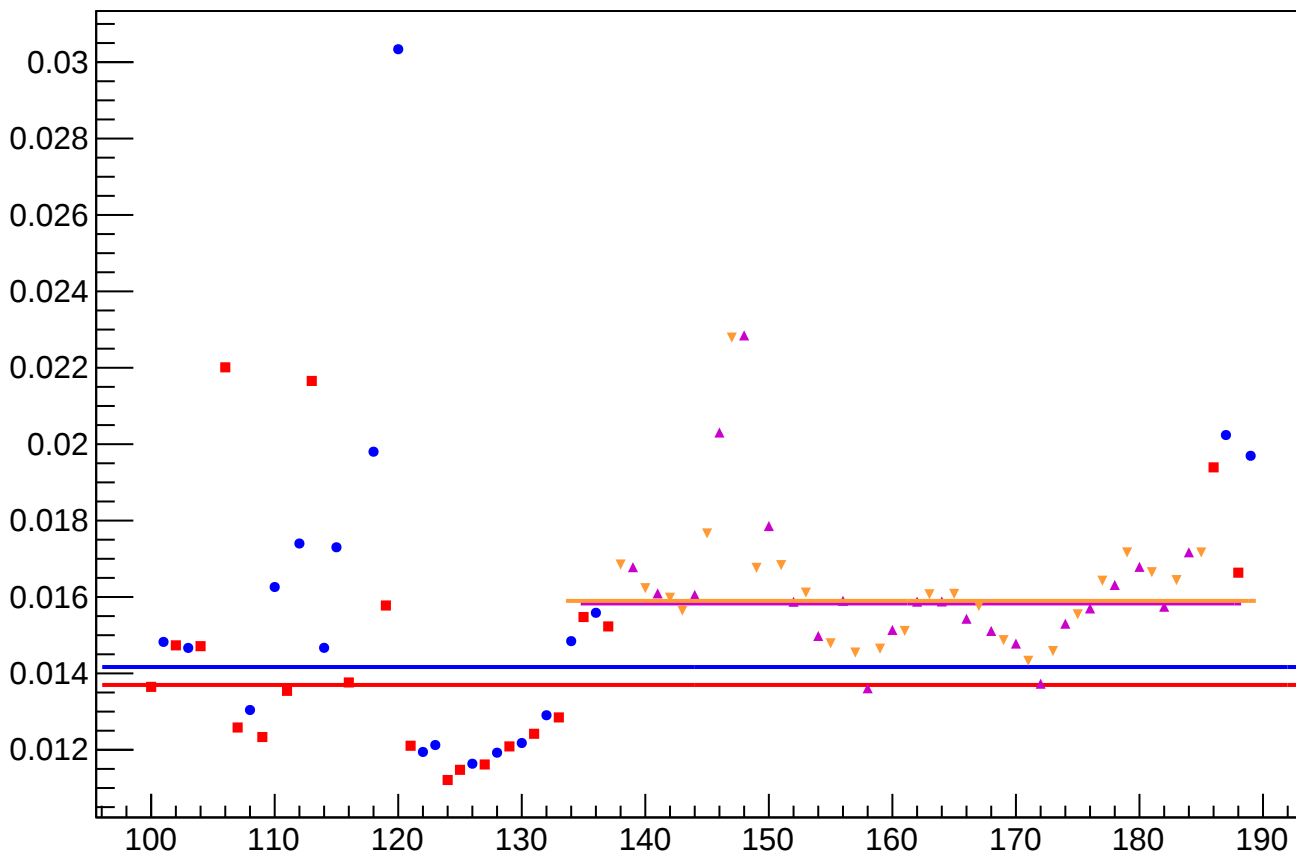
Right: -0.038+/-0.000 χ^2/NDF : 45265331534.4/39

In: -2.232+/-0.000 χ^2/NDF : 286453488240.4/41

Out: -2.154+/-0.000 χ^2/NDF : 290242504487.7/45

All: -2.191+/-0.000 χ^2/NDF : 577006429002.0

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 : 417592.1/20

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

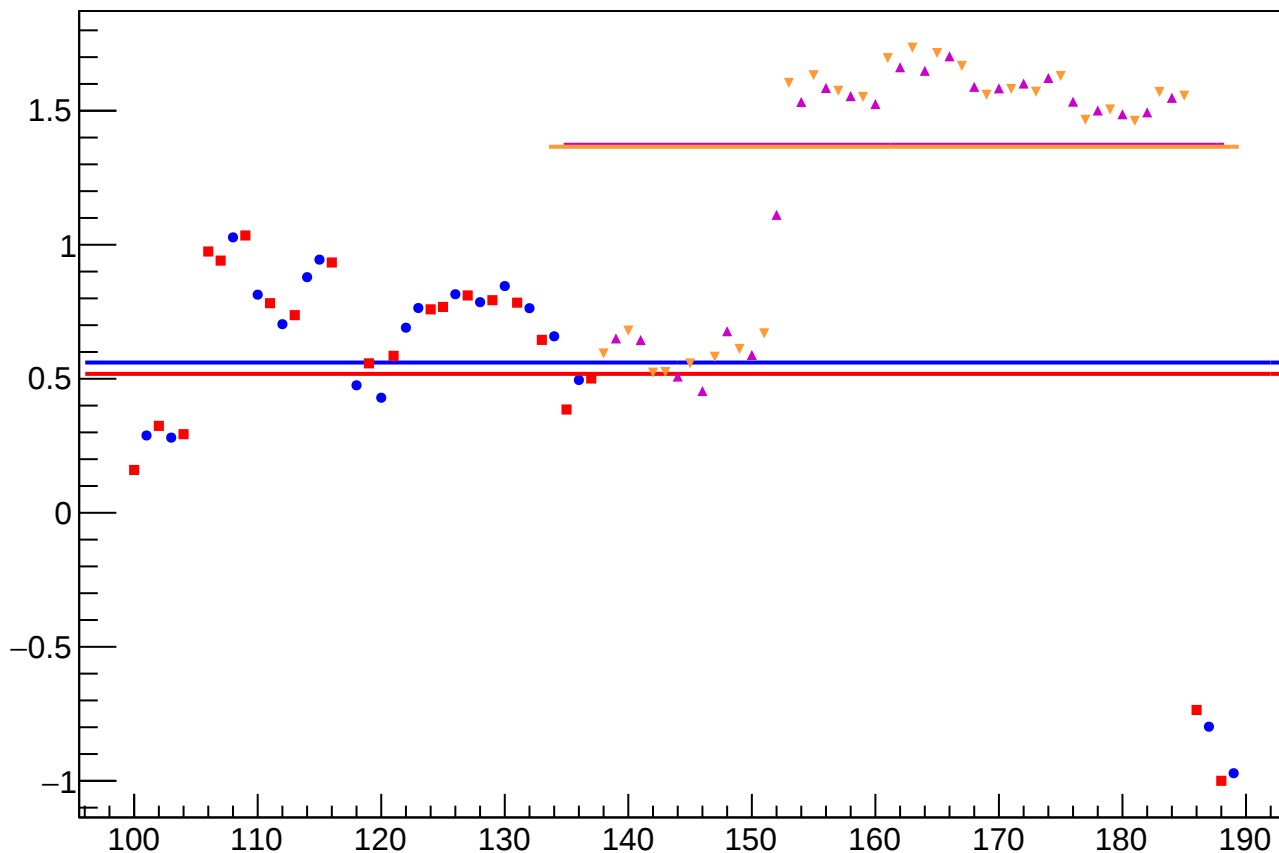
Right: 0.014+/-0.000 χ^2/NDF : 926881.4/39

In: 0.015+/-0.000 χ^2/NDF :960537.8/41

Out: 0.015+/-0.000 χ^2/NDF :917415.0/45

All: 0.015+/-0.000 χ^2/NDF : 1881913.3/87

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.561+/-0.000 χ^2/NDF : 13865543577.6/18

Left Out: 1.366+/-0.000 χ^2/NDF : 74741956067.9/24

Right Out: 0.518+/-0.000 χ^2/NDF : 24814924915.2/20

Left In: 1.373+/-0.000 χ^2/NDF : 63413151416.3/22

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

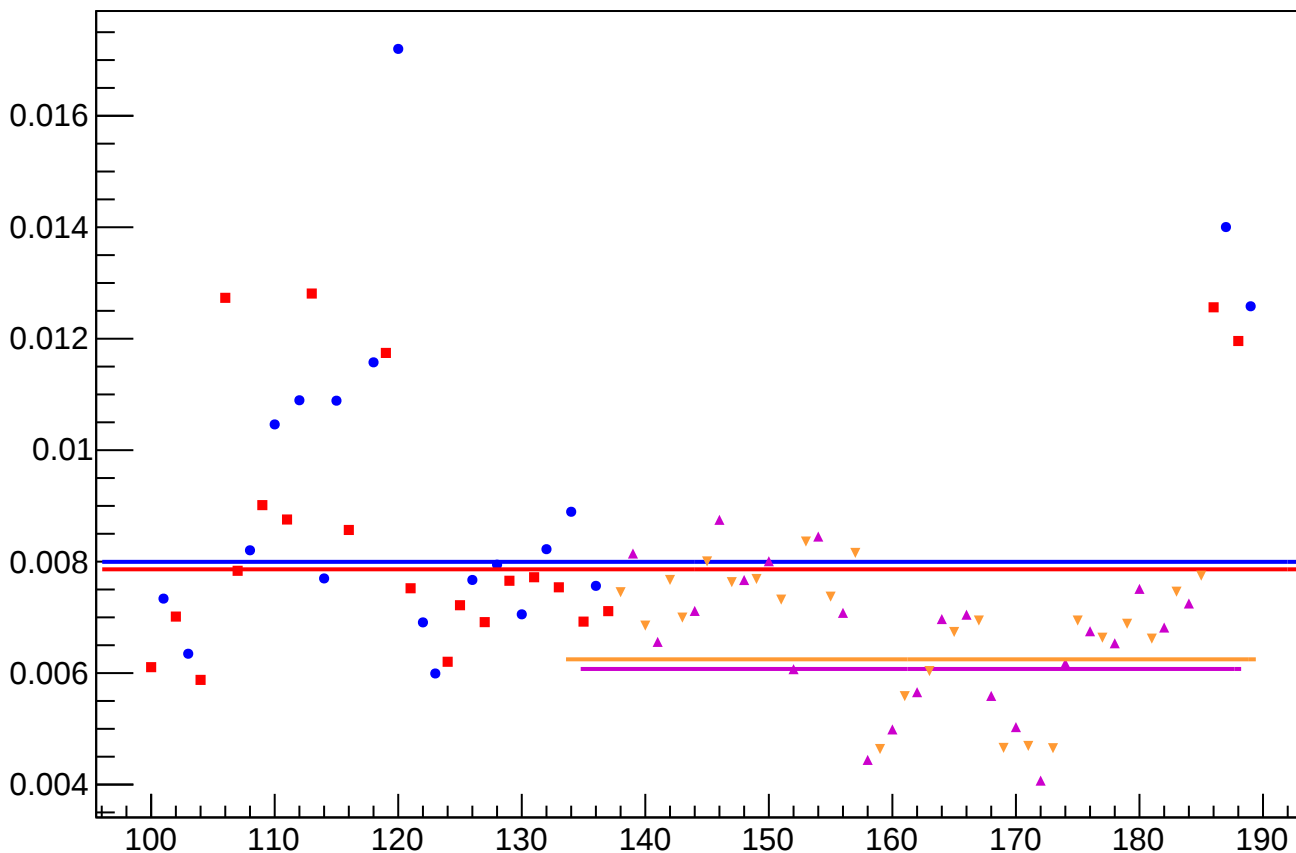
Right: 0.538+/-0.000 χ^2/NDF : 38776442337.6/39

In: 1.221+/-0.000 χ^2/NDF : 130184747578.1/41

Out: 1.183+/-0.000 χ^2/NDF : 165356762527.8/45

All: 1.202+/-0.000 χ^2/NDF : 295918589456.9

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: 761749.9/20

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

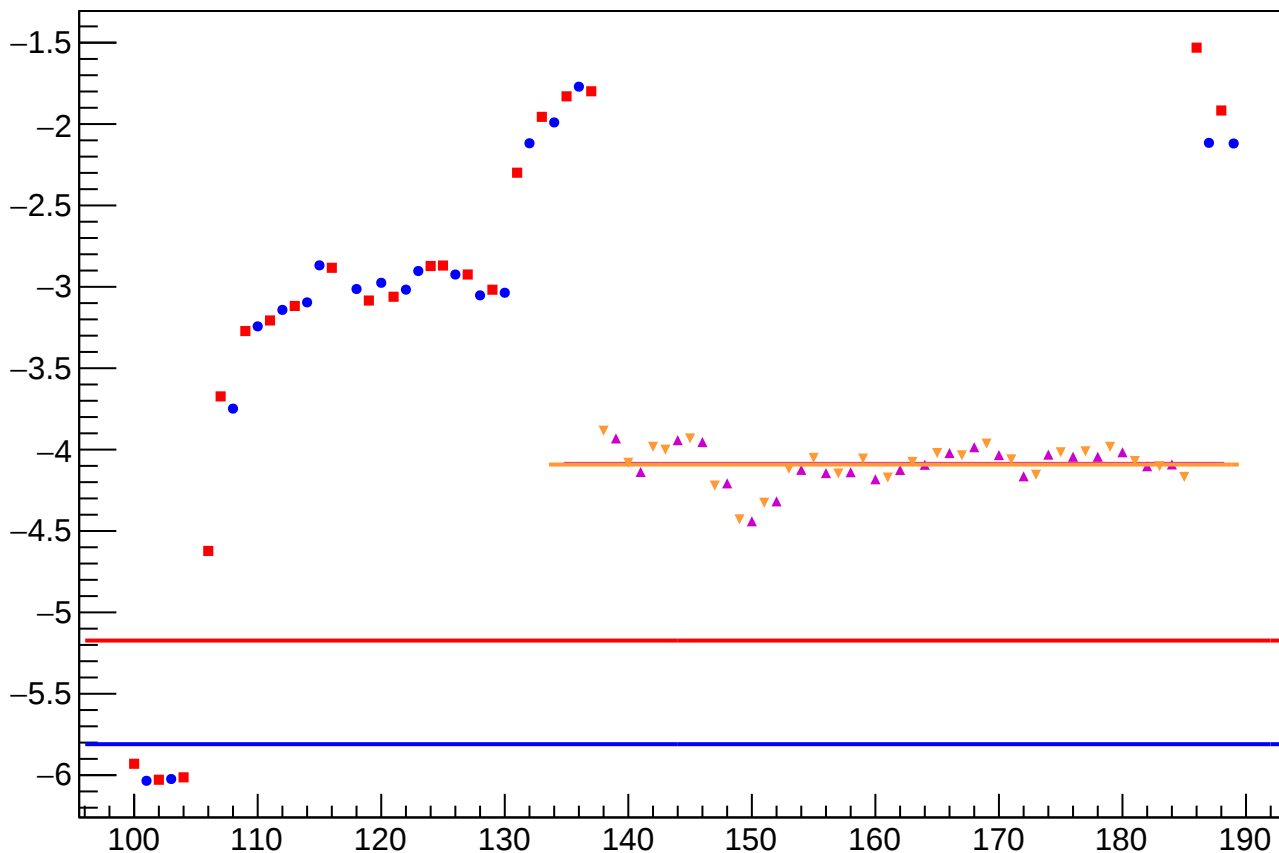
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 1410190.9/39

In: 0.006 $\pm$ 0.000 χ^2 /NDF:2670644.8/41

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:2570709.9/45

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 5255035.0/87

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: -5.173+/-0.000 χ^2/NDF : 129631974368.8/20

Left In: -4.088+/-0.000 χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000 χ^2/NDF : 74248792.8/47

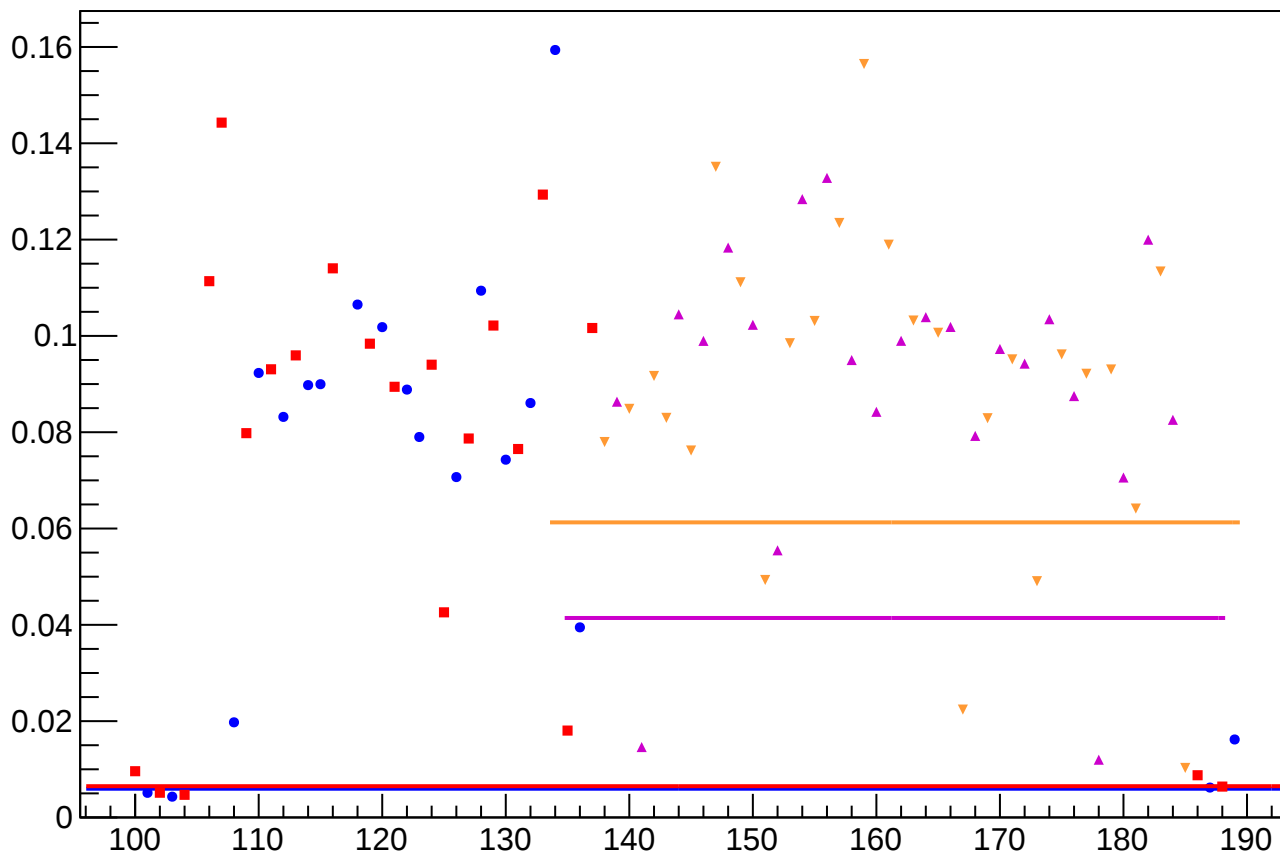
Right: -5.500+/-0.000 χ^2/NDF : 177408911502.9/39

In: -5.672+/-0.000 χ^2/NDF : 49747756325.8/41

Out: -5.109+/-0.000 χ^2/NDF : 132918771595.8/45

All: -5.401+/-0.000 χ^2/NDF : 190833983205.6

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7989218.2/18

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 8479530.7/20

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

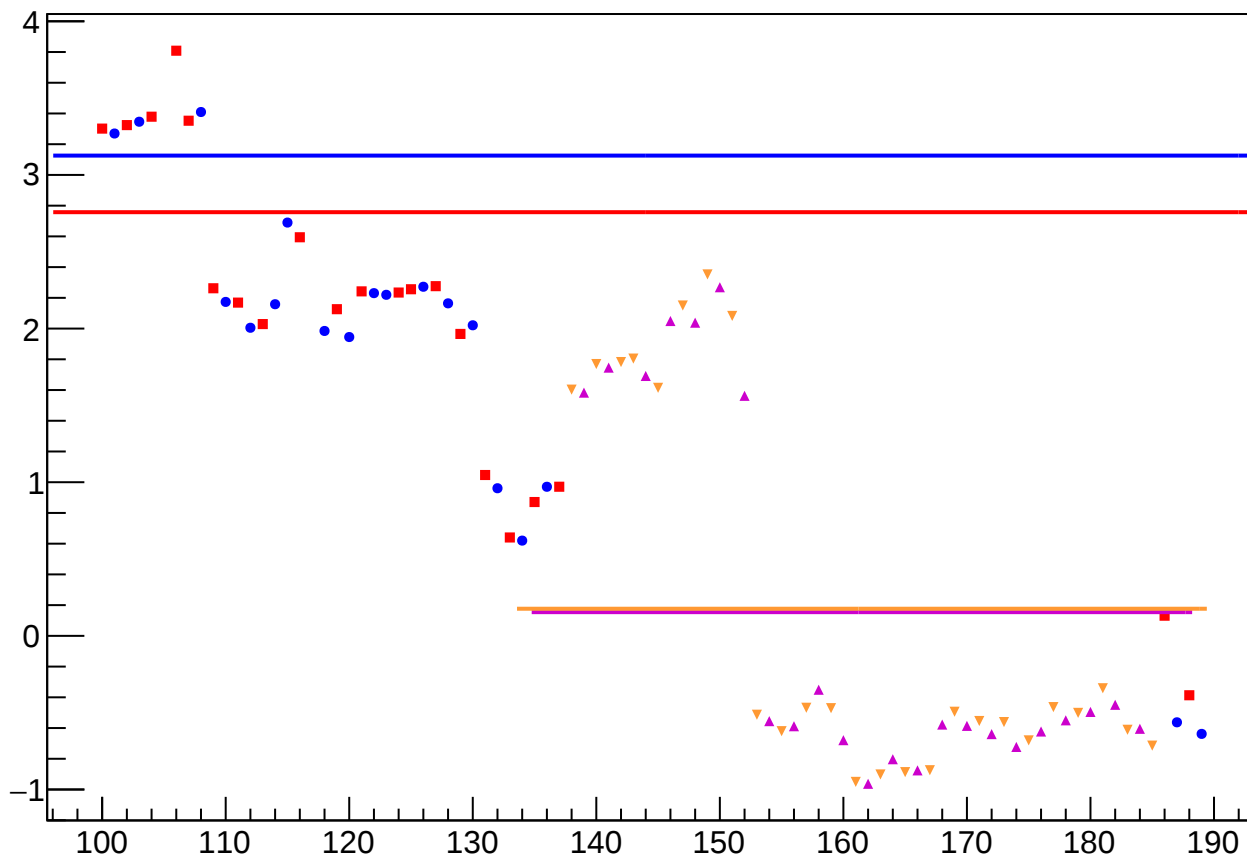
Right: 0.006+/-0.000 χ^2/NDF : 16481761.3/39

In: 0.009+/-0.000 χ^2/NDF : 30979079.7/41

Out: 0.010+/-0.000 χ^2/NDF : 33505058.2/45

All: 0.009+/-0.000 χ^2/NDF : 64530774.4/87

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: 2.758 $\pm$ 0.000 χ^2/NDF : 53897614420.8/20

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

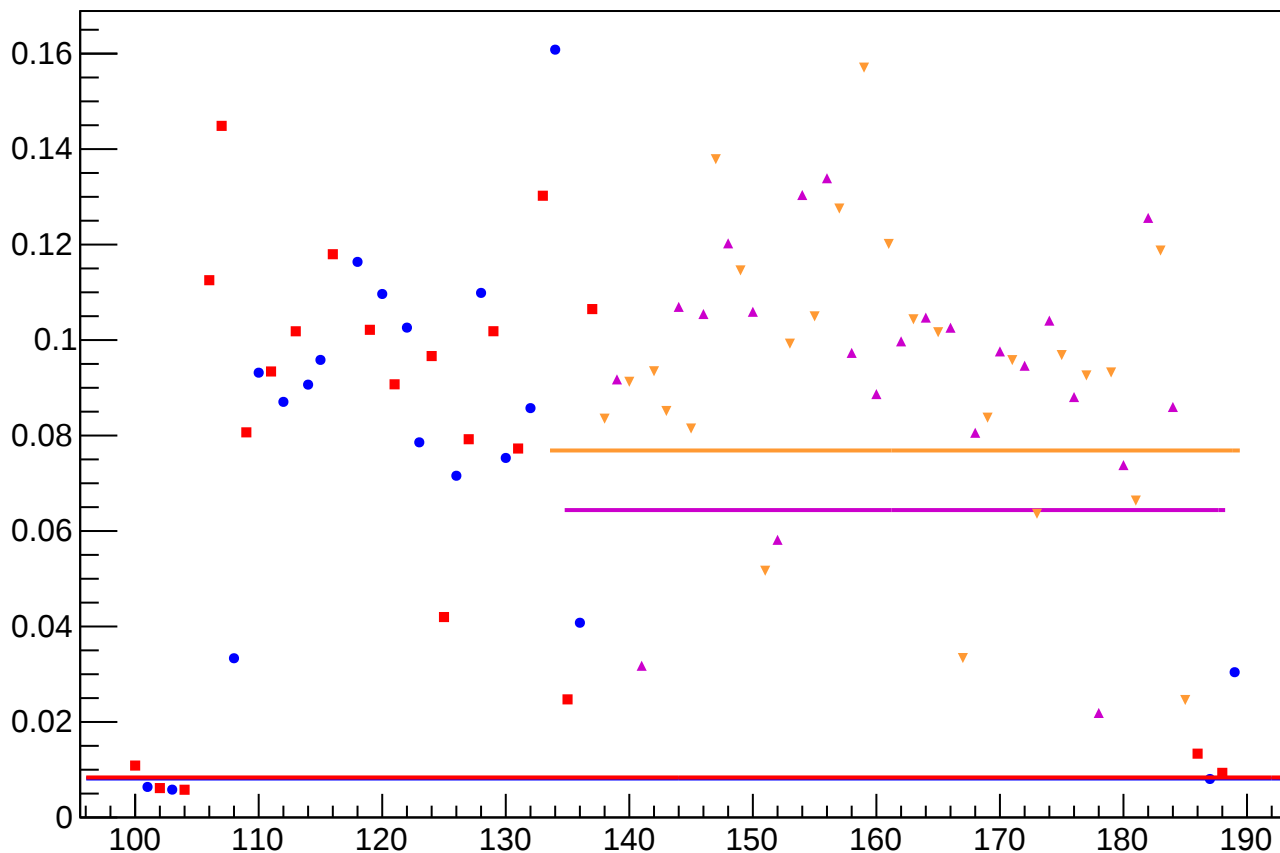
Right: 2.938 $\pm$ 0.000 χ^2/NDF : 73643324841.0/39

In: 2.889 $\pm$ 0.000 χ^2/NDF : 41806053470.3/41

Out: 2.582 $\pm$ 0.000 χ^2/NDF : 71249088887.8/45

All: 2.733 $\pm$ 0.000 χ^2/NDF : 114604058312.4

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: 0.008 $\pm$ 0.000 χ^2 /NDF: 8330191.8/20

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

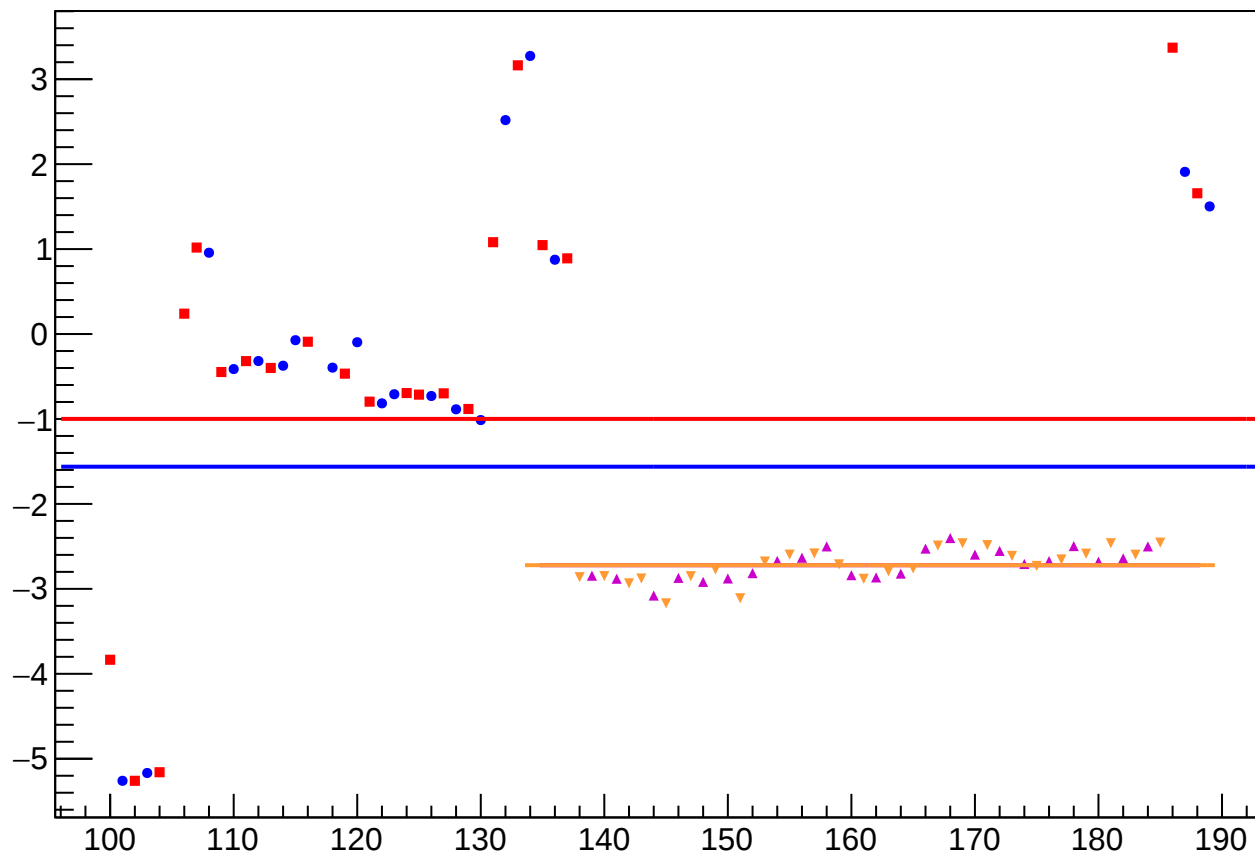
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16223034.8/39

In: 0.013 $\pm$ 0.000 χ^2 /NDF:29893278.9/41

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:32373227.5/45

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 62271630.7/87

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: -0.999+/-0.000 χ^2/NDF : 205775435990.1/20

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

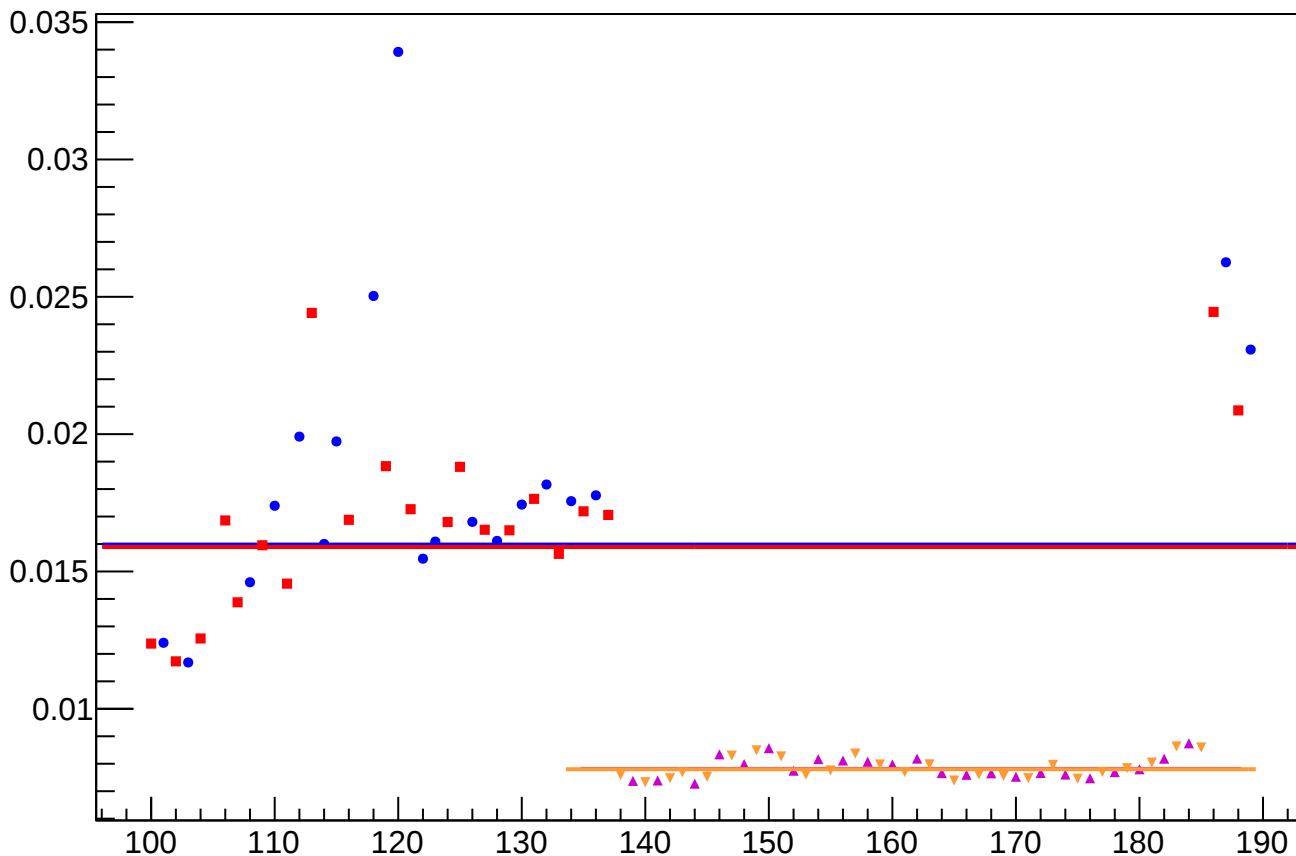
Right: -1.254+/-0.000 χ^2/NDF : 386952832271.6/39

In: -2.629+/-0.000 χ^2/NDF : 214811387264.7/41

Out: -2.566+/-0.000 χ^2/NDF : 294111525628.4/45

All: -2.596+/-0.000 χ^2/NDF : 509533569417.3

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 : 548772.5/20

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

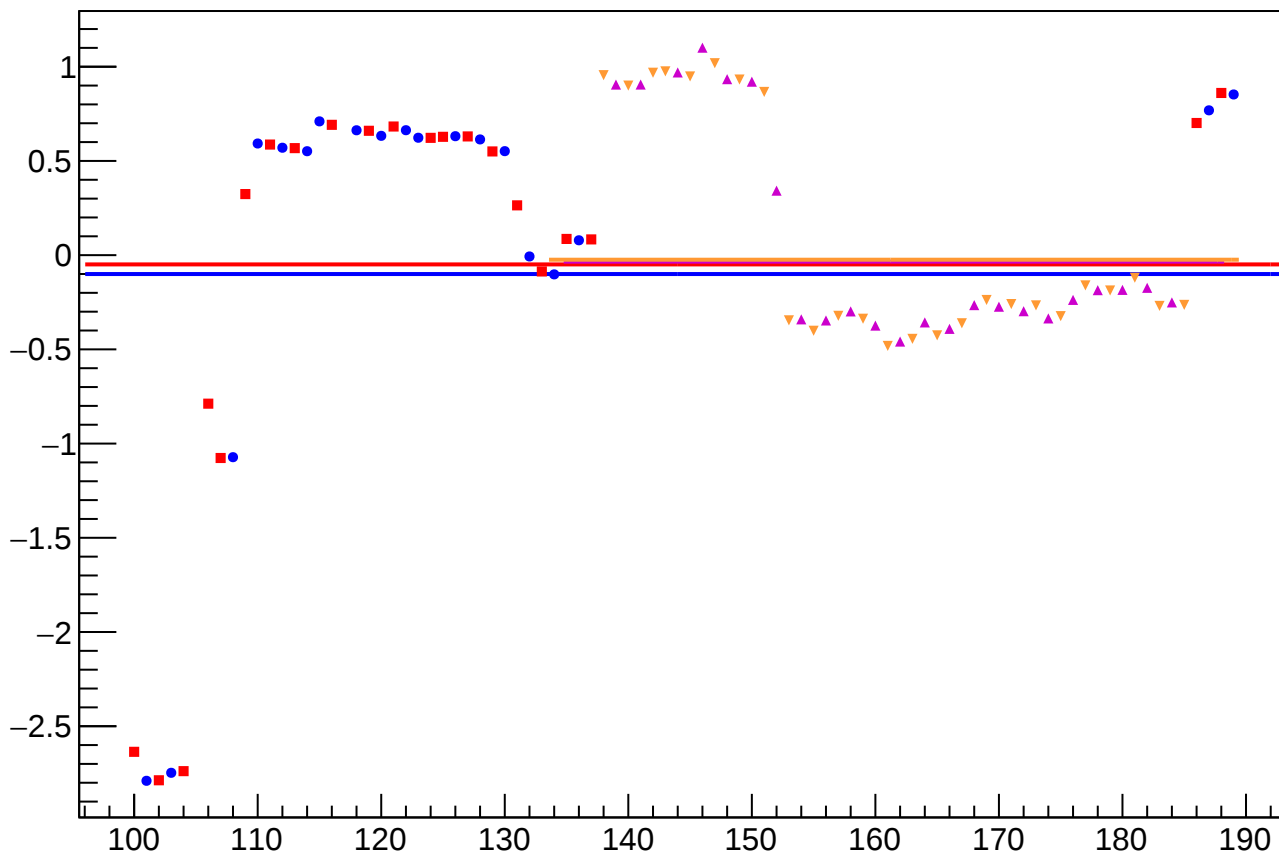
Right: 0.016+/-0.000 χ^2/NDF : 1258379.9/39

In: 0.008+/-0.000 χ^2/NDF : 3715701.6/41

Out: 0.009+/-0.000 χ^2/NDF : 4060652.8/45

All: 0.009+/-0.000 χ^2/NDF : 7777594.1/87

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.100 ± 0.000

χ^2/NDF : 734664243257.0/18

Left: -0.029 ± 0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024 ± 0.000

χ^2/NDF : 135451649275.0/24

Right: -0.073 ± 0.000

χ^2/NDF : 1537601027755.4/3

Right Out: -0.049 ± 0.000

χ^2/NDF : 802193844353.4/20

In: -0.070 ± 0.000

χ^2/NDF : 849673494717.6/41

Out: -0.038 ± 0.000

χ^2/NDF : 937813101587.9/45

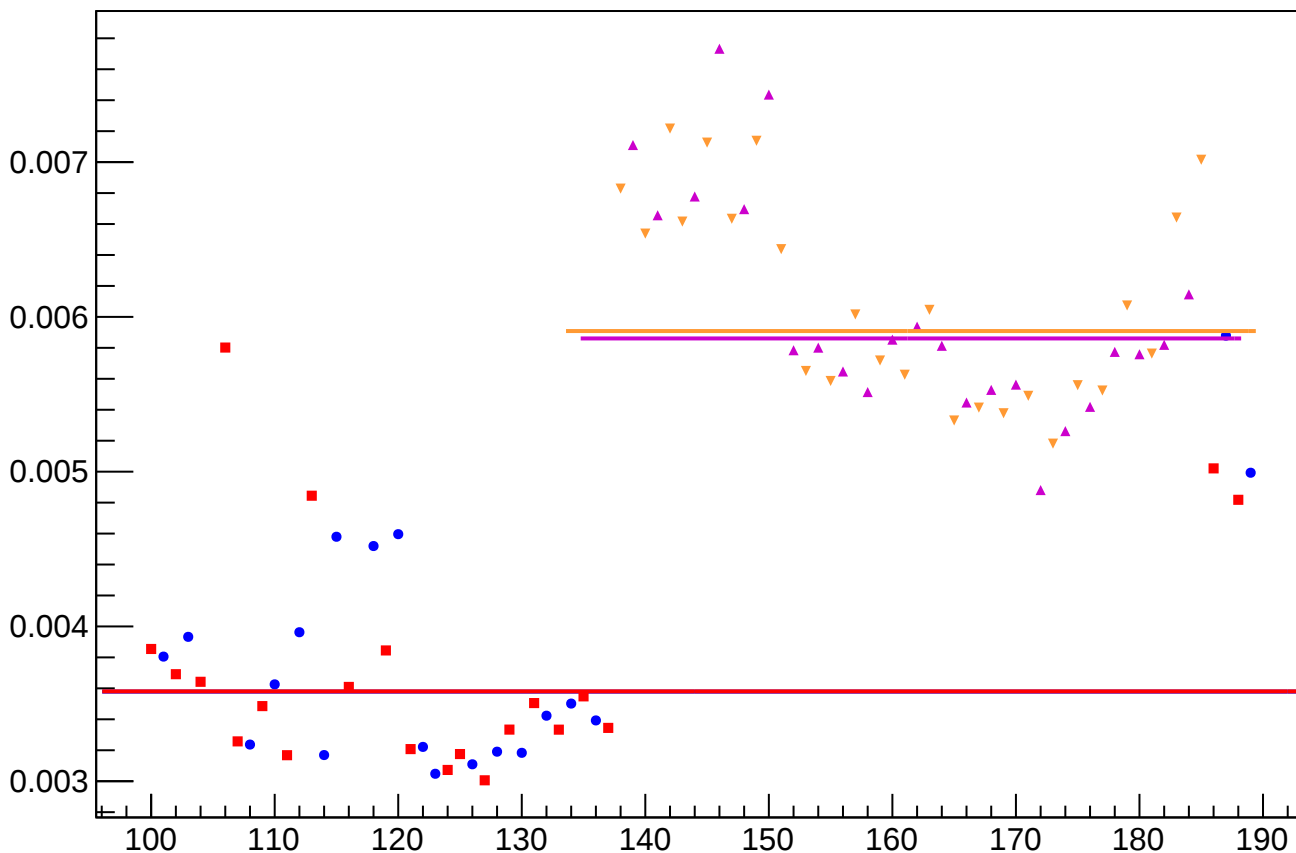
Left In: -0.034 ± 0.000

χ^2/NDF : 113929060918.1/22

All: -0.053 ± 0.000

χ^2/NDF : 1788001837936

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 : 400862.9/20

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

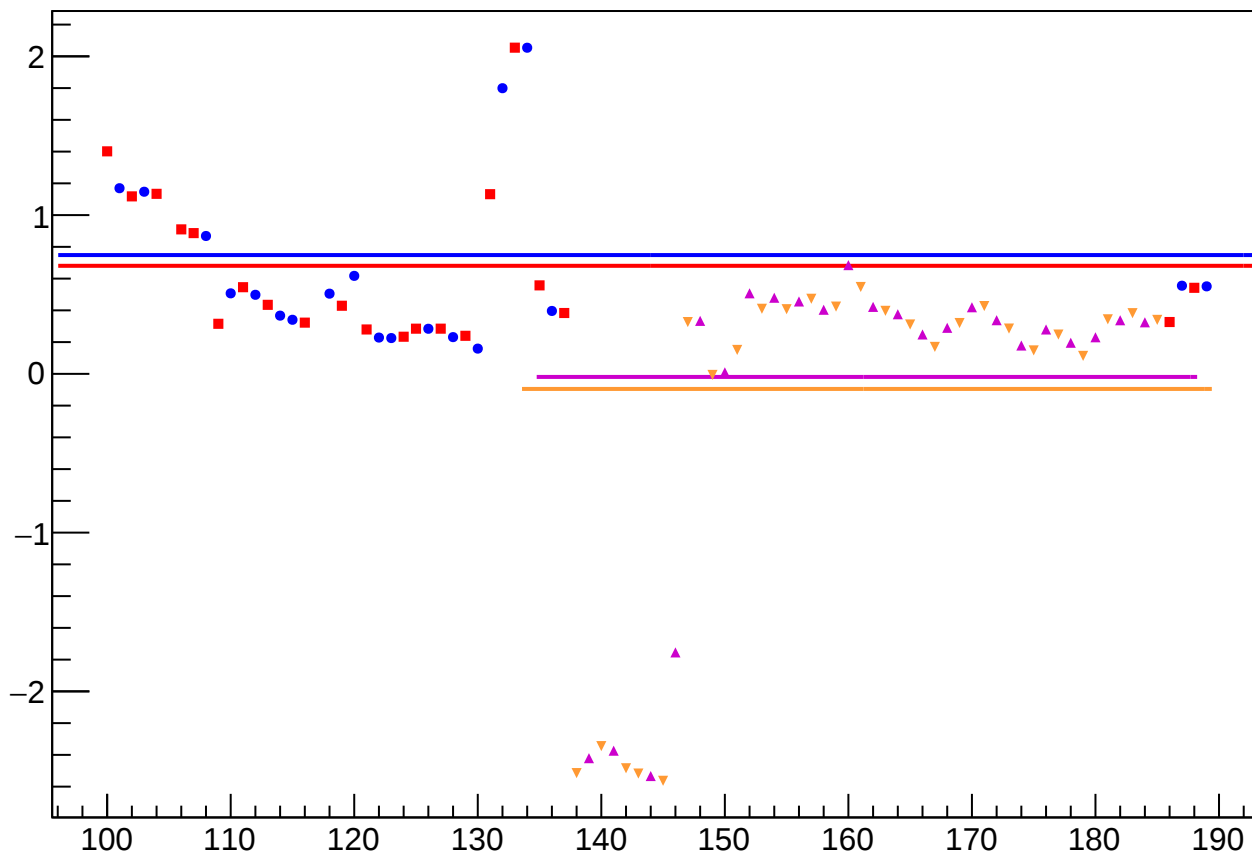
Right: 0.004+/-0.000 χ^2/NDF : 693004.4/39

In: 0.005+/-0.000 χ^2/NDF :3244909.7/41

Out: 0.005+/-0.000 χ^2/NDF :3633494.8/45

All: 0.005+/-0.000 χ^2/NDF : 6879500.5/87

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: 0.681+/-0.000 χ^2/NDF : 42291642997.2/20

Left In: -0.019+/-0.000 χ^2/NDF : 417104863944.5/22

Left: -0.058+/-0.000 χ^2/NDF : 924153662333.7/47

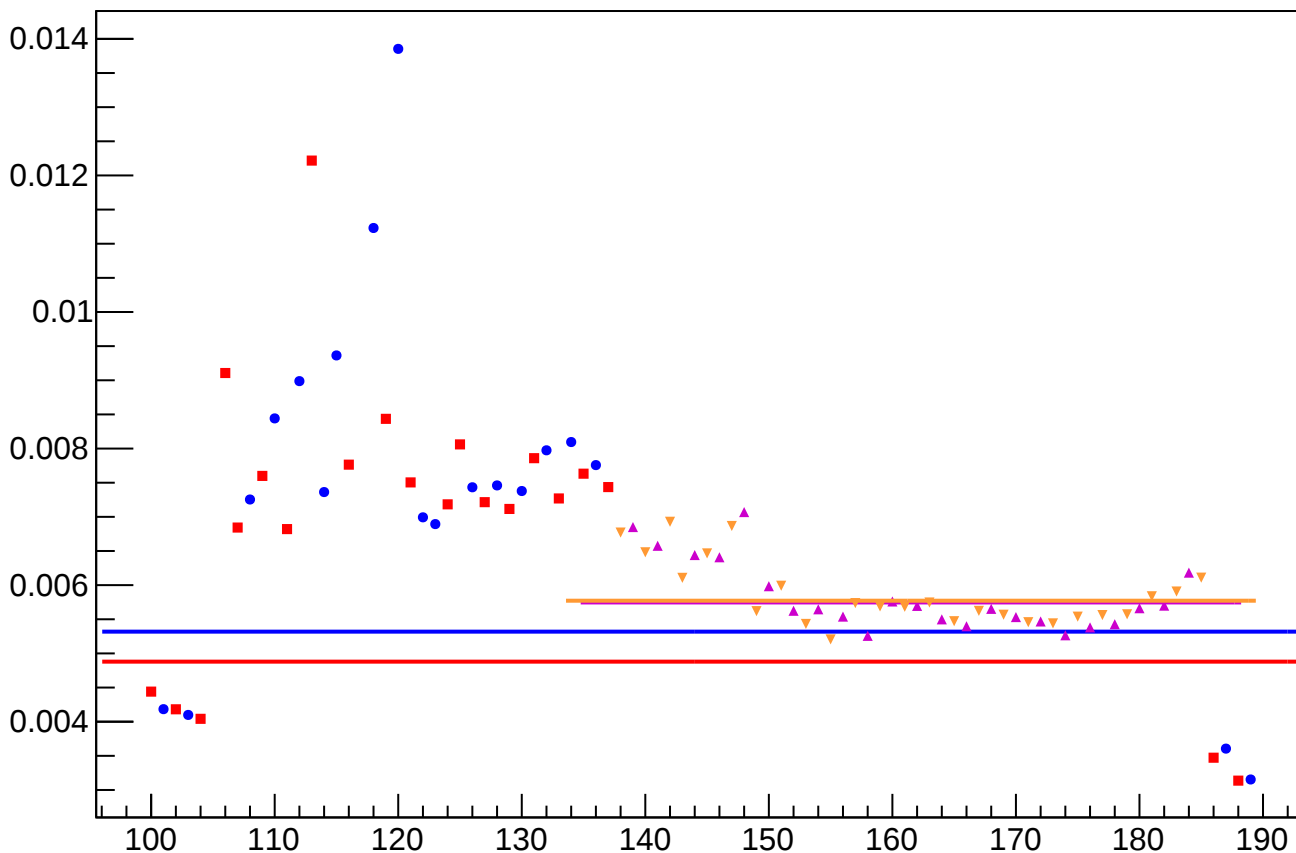
Right: 0.709+/-0.000 χ^2/NDF : 77590839887.8/39

In: 0.199+/-0.000 χ^2/NDF : 534624730224.1/41

Out: 0.172+/-0.000 χ^2/NDF : 654678683011.6/45

All: 0.185+/-0.000 χ^2/NDF : 1189569010718.

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 : 2191145.9/20

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

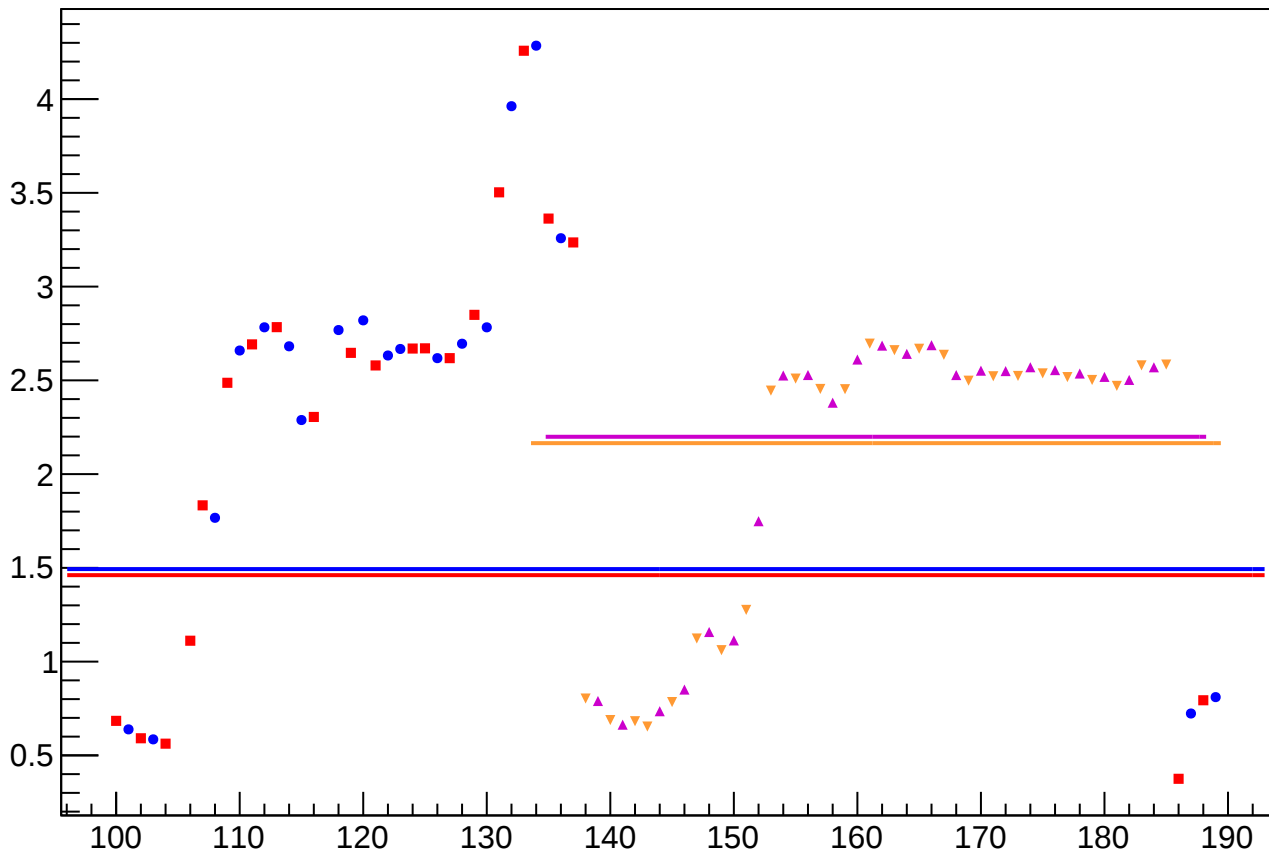
Right: 0.005+/-0.000 χ^2/NDF : 4160380.7/39

In: 0.006+/-0.000 χ^2/NDF :2180697.3/41

Out: 0.005+/-0.000 χ^2/NDF :2651589.3/45

All: 0.006+/-0.000 χ^2/NDF : 4851148.3/87

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: 1.461+/-0.000 χ^2/NDF : 265826410558.0/20

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

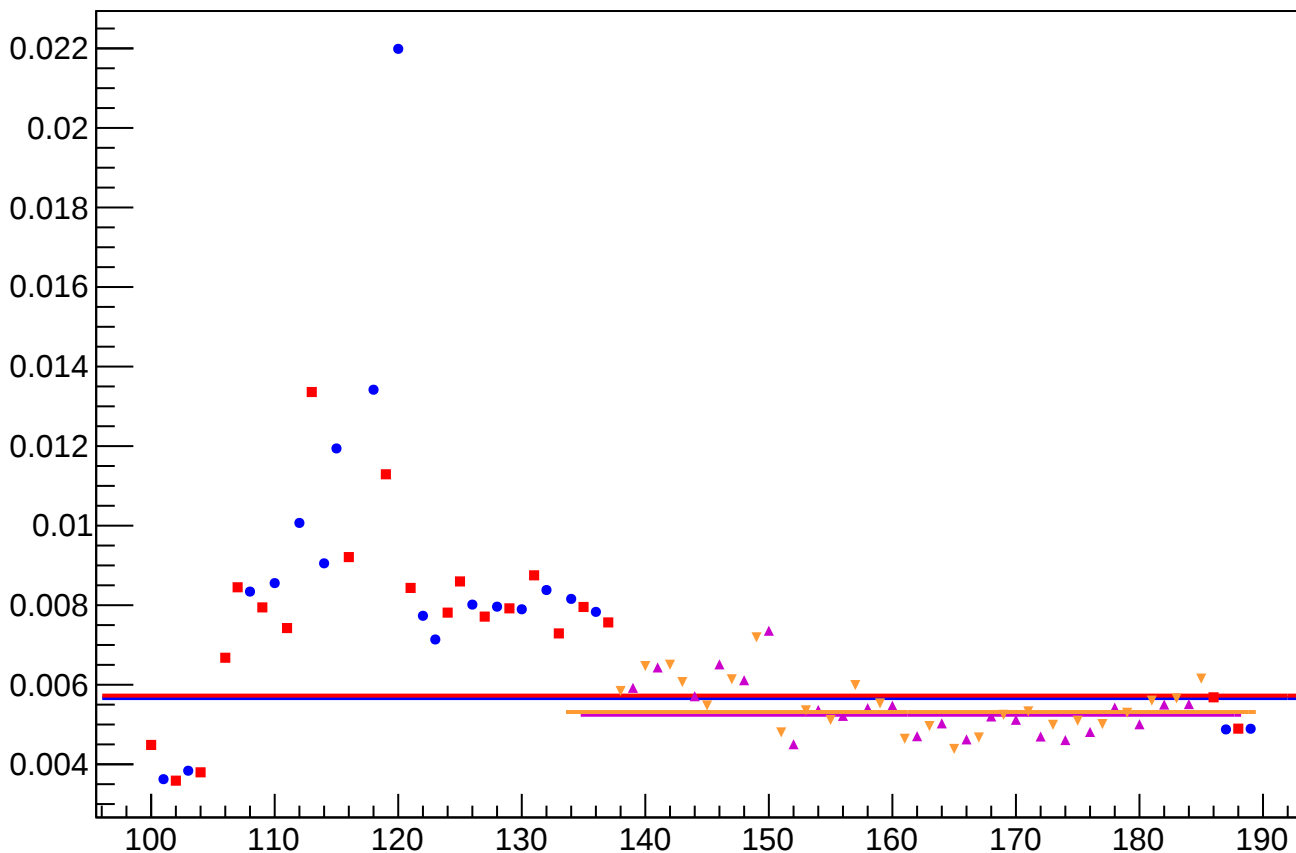
Right: 1.476+/-0.000 χ^2/NDF : 483021003561.3/39

In: 2.039+/-0.000 χ^2/NDF : 534897241979.6/41

Out: 1.987+/-0.000 χ^2/NDF : 632410318509.1/45

All: 2.012+/-0.000 χ^2/NDF : 1168357357555.0

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 : 1738466.9/20

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

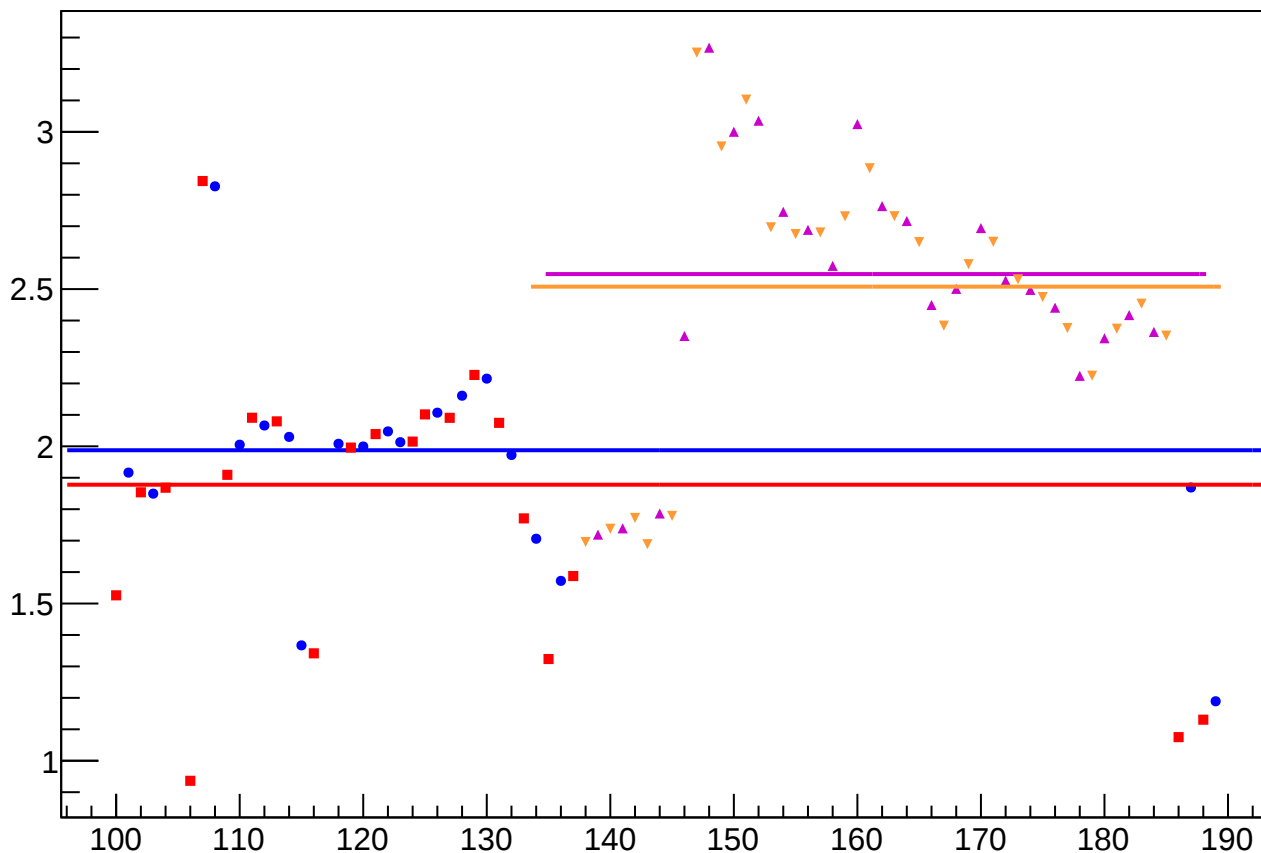
Right: 0.006+/-0.000 χ^2/NDF : 3685639.1/39

In: 0.005+/-0.000 χ^2/NDF : 2417976.1/41

Out: 0.005+/-0.000 χ^2/NDF : 2187710.1/45

All: 0.005+/-0.000 χ^2/NDF : 4610439.1/87

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.988 $\pm$ 0.000 χ^2 /NDF: 15111816637.9/18

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.878 $\pm$ 0.000 χ^2 /NDF: 29613634151.9/20

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

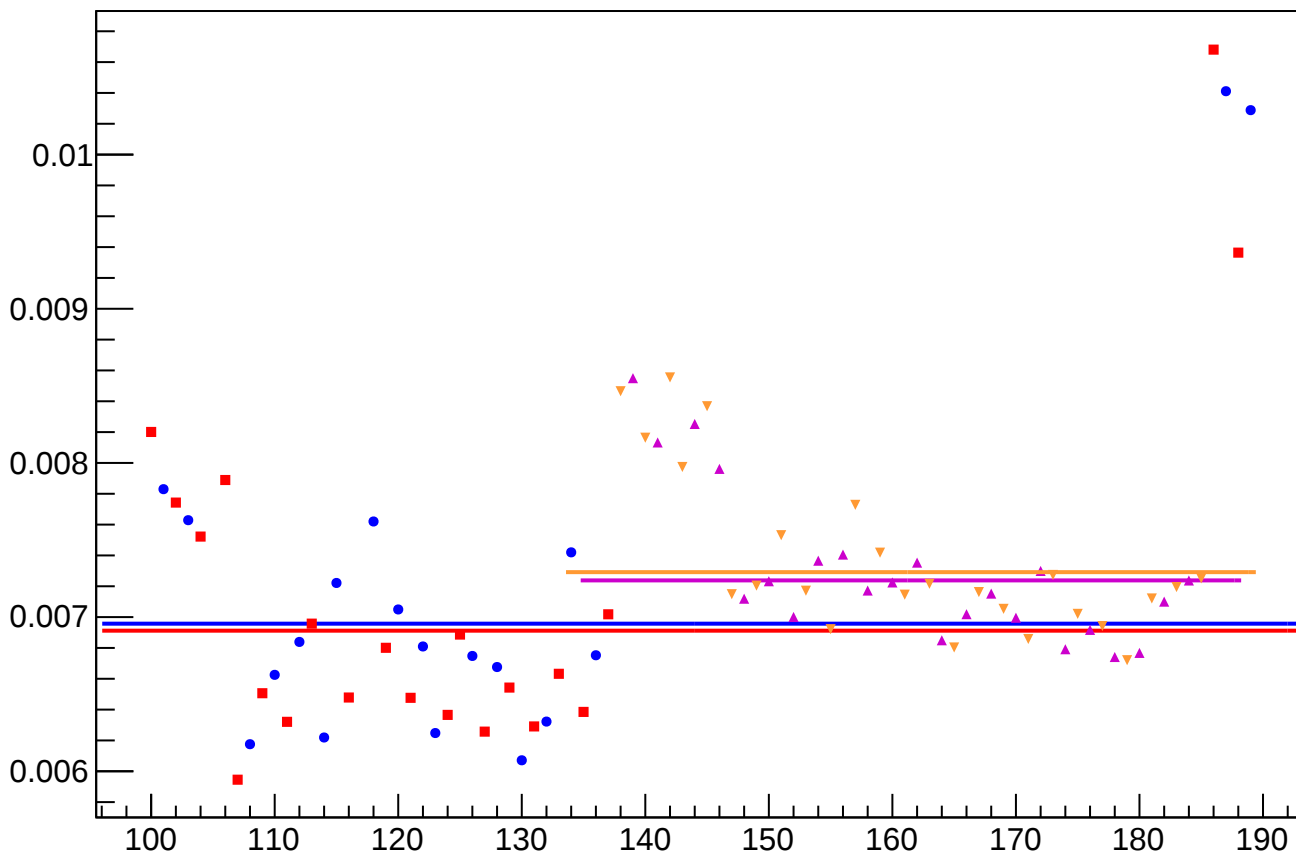
Right: 1.929 $\pm$ 0.000 χ^2 /NDF: 45642080740.2/39

In: 2.374 $\pm$ 0.000 χ^2 /NDF: 91233169103.0/41

Out: 2.297 $\pm$ 0.000 χ^2 /NDF: 125514425889.5/45

All: 2.334 $\pm$ 0.000 χ^2 /NDF: 218162972060.3

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 : 301541.8/20

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

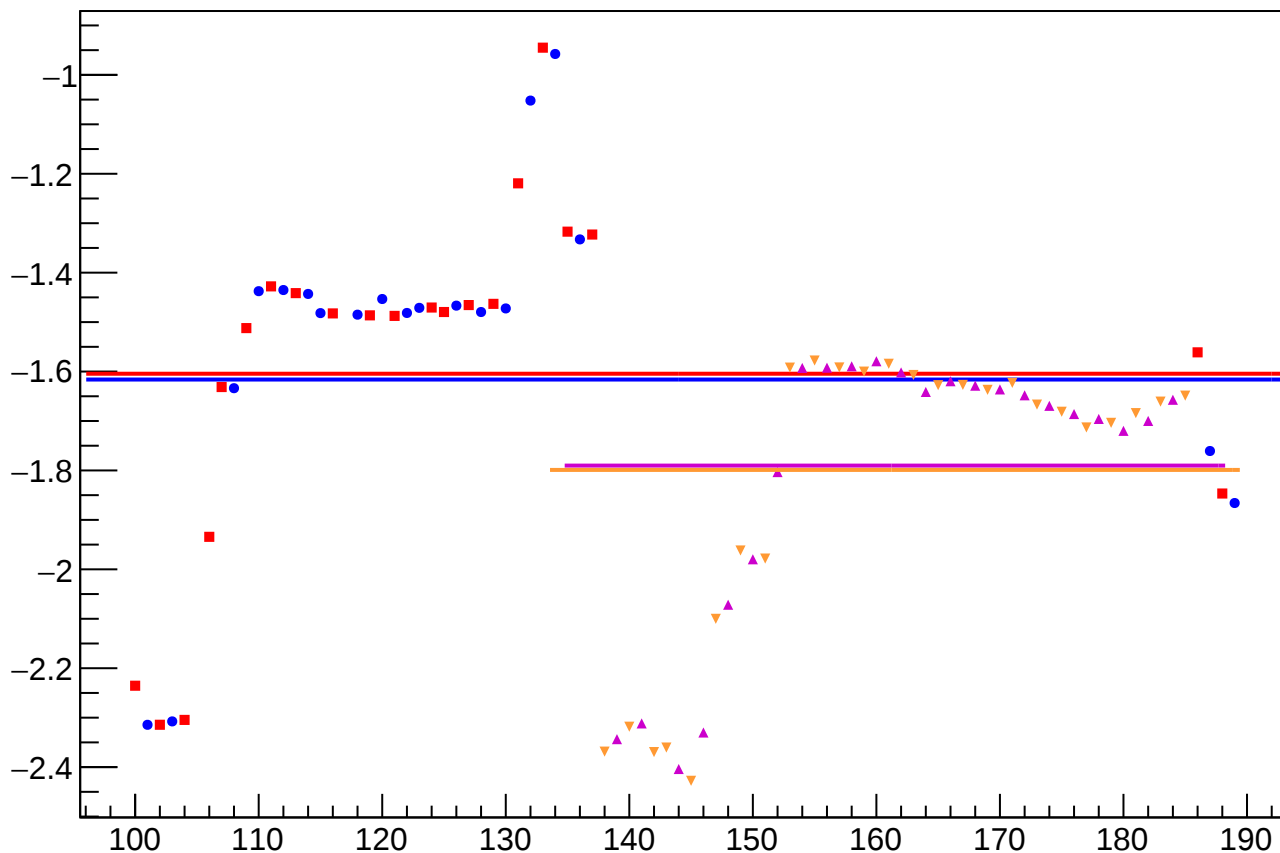
Right: 0.007+/-0.000 χ^2/NDF : 511225.2/39

In: 0.007+/-0.000 χ^2/NDF :350052.7/41

Out: 0.007+/-0.000 χ^2/NDF :473965.1/45

All: 0.007+/-0.000 χ^2/NDF : 824104.7/87

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: -1.604+/-0.000 χ^2/NDF : 149528863952.5/20

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

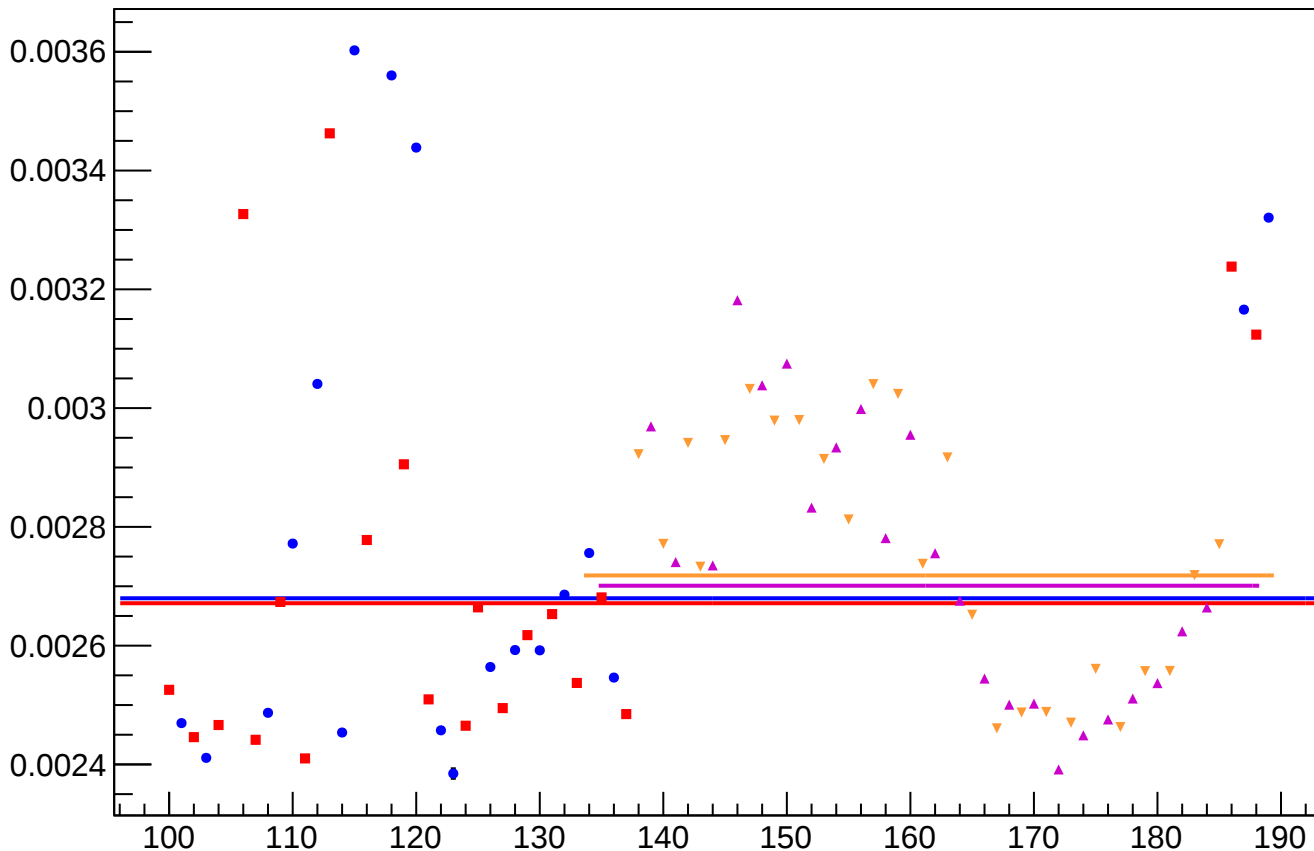
Right: -1.610+/-0.000 χ^2/NDF : 292868696681.7/39

In: -1.739+/-0.000 χ^2/NDF : 323246105789.8/41

Out: -1.737+/-0.000 χ^2/NDF : 363334821267.4/45

All: -1.738+/-0.000 χ^2/NDF : 686585459571.3

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 : 171200.9/20

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

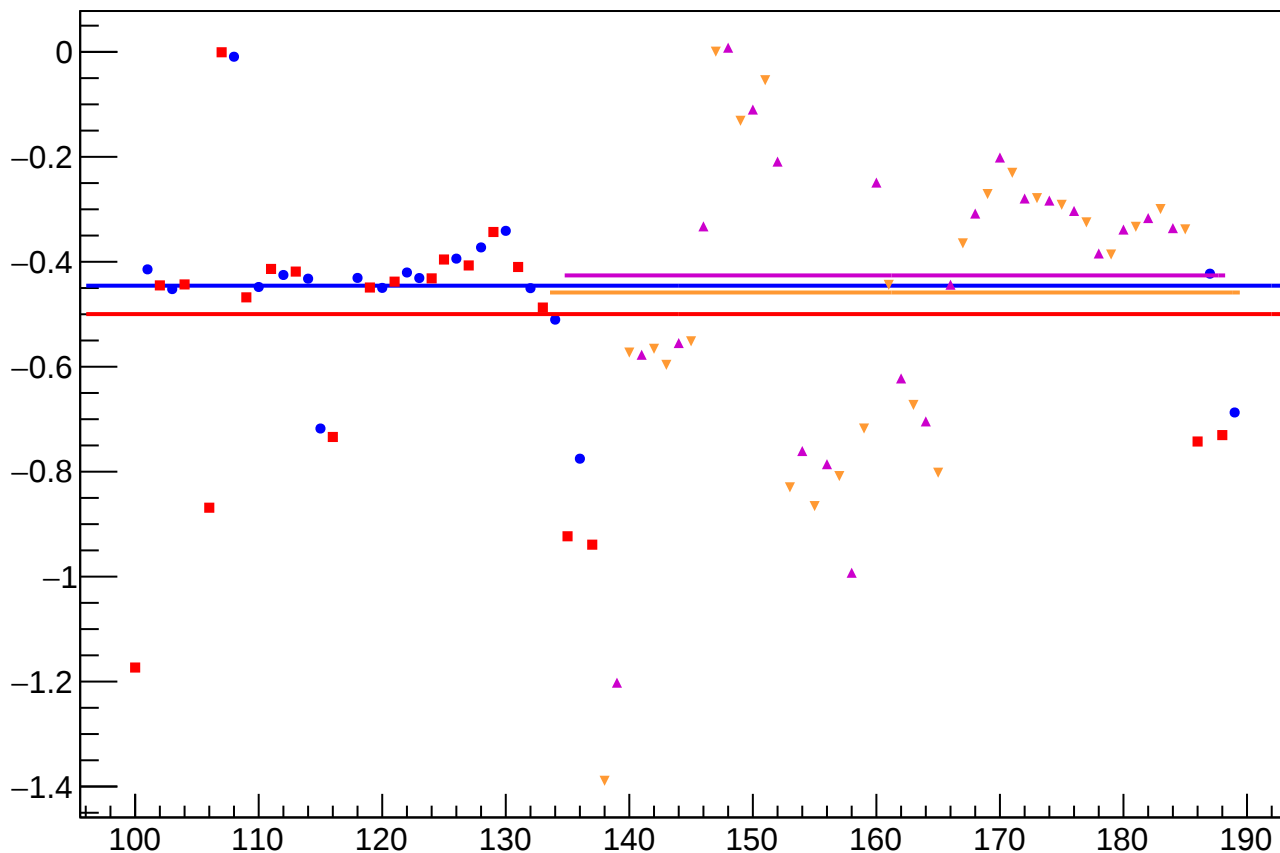
Right: 0.003+/-0.000 χ^2/NDF : 366940.0/39

In: 0.003+/-0.000 χ^2/NDF :416595.5/41

Out: 0.003+/-0.000 χ^2/NDF :374188.4/45

All: 0.003+/-0.000 χ^2/NDF : 791035.5/87

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.446 $\pm$ 0.000 χ^2/NDF : 1554717475.4/18

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.500 $\pm$ 0.000 χ^2/NDF : 2940978108.3/20

Left In: -0.426 $\pm$ 0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443 $\pm$ 0.000 χ^2/NDF : 18401926676.9/47

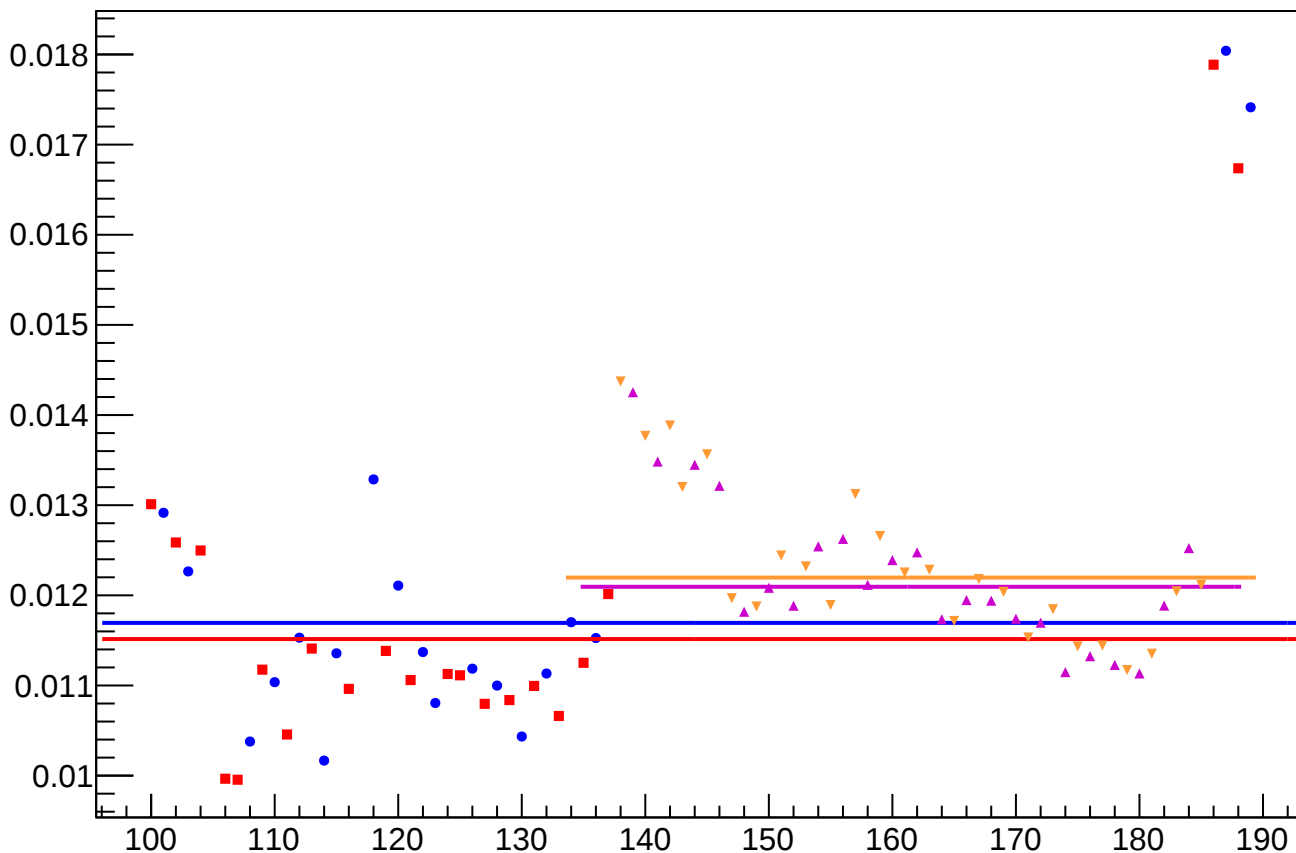
Right: -0.475 $\pm$ 0.000 χ^2/NDF : 4576775932.6/39

In: -0.432 $\pm$ 0.000 χ^2/NDF : 9992422752.1/41

Out: -0.472 $\pm$ 0.000 χ^2/NDF : 12925127918.9/45

All: -0.453 $\pm$ 0.000 χ^2/NDF : 23057115401.6/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 205301.3/18

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:141850.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 334693.2/20

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:127308.3/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 270367.5/47

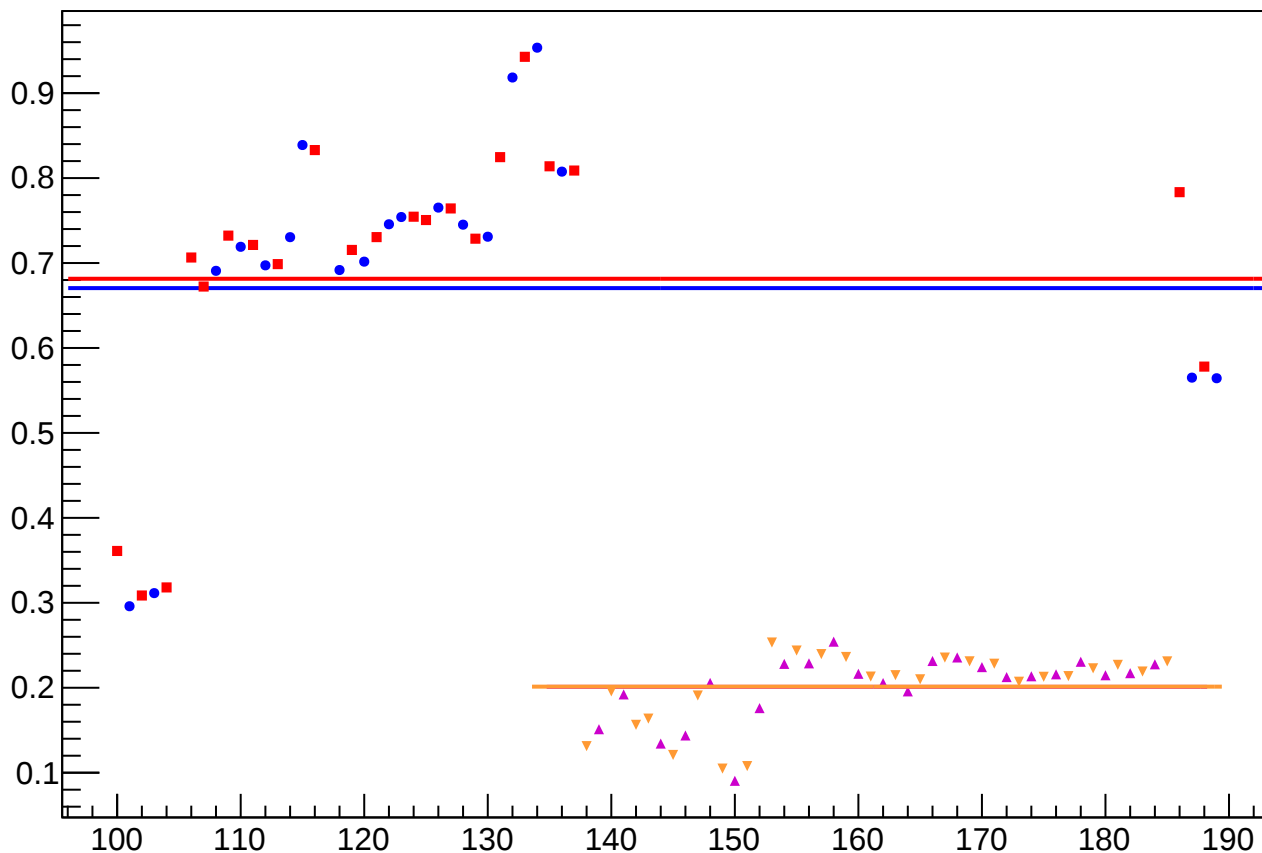
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 541780.3/39

In: 0.012 $\pm$ 0.000 χ^2 /NDF:343915.3/41

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:513741.0/45

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 857659.3/87

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.670+/-0.000 χ^2/NDF : 39368829214.4/18

Left Out: 0.201+/-0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.681+/-0.000 χ^2/NDF : 37071423491.3/20

Left In: 0.201+/-0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201+/-0.000 χ^2/NDF : 12762673178.0/47

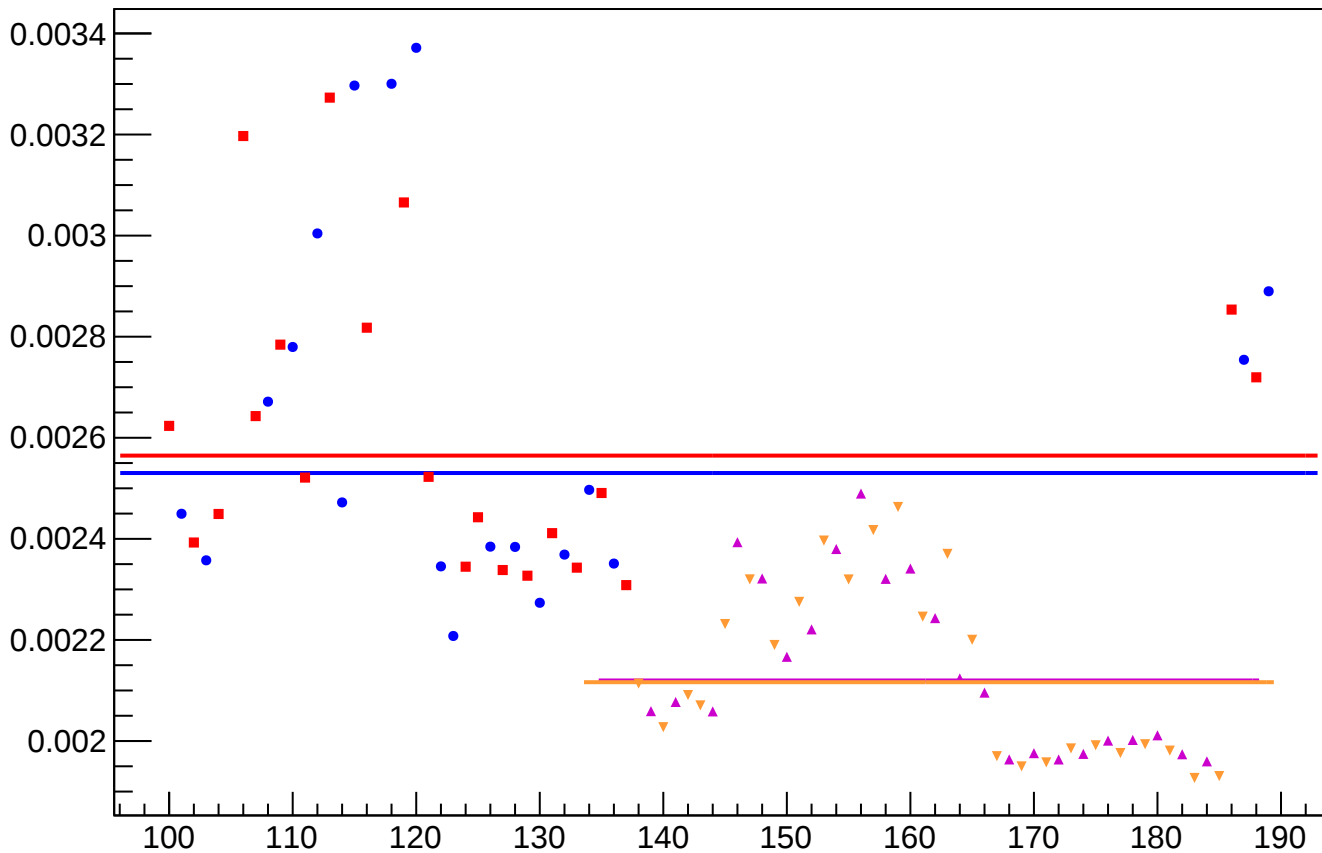
Right: 0.676+/-0.000 χ^2/NDF : 76509356447.0/39

In: 0.305+/-0.000 χ^2/NDF : 230944490550.3/41

Out: 0.311+/-0.000 χ^2/NDF : 257799597480.6/45

All: 0.308+/-0.000 χ^2/NDF : 488842823438.9

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 : 146724.3/20

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

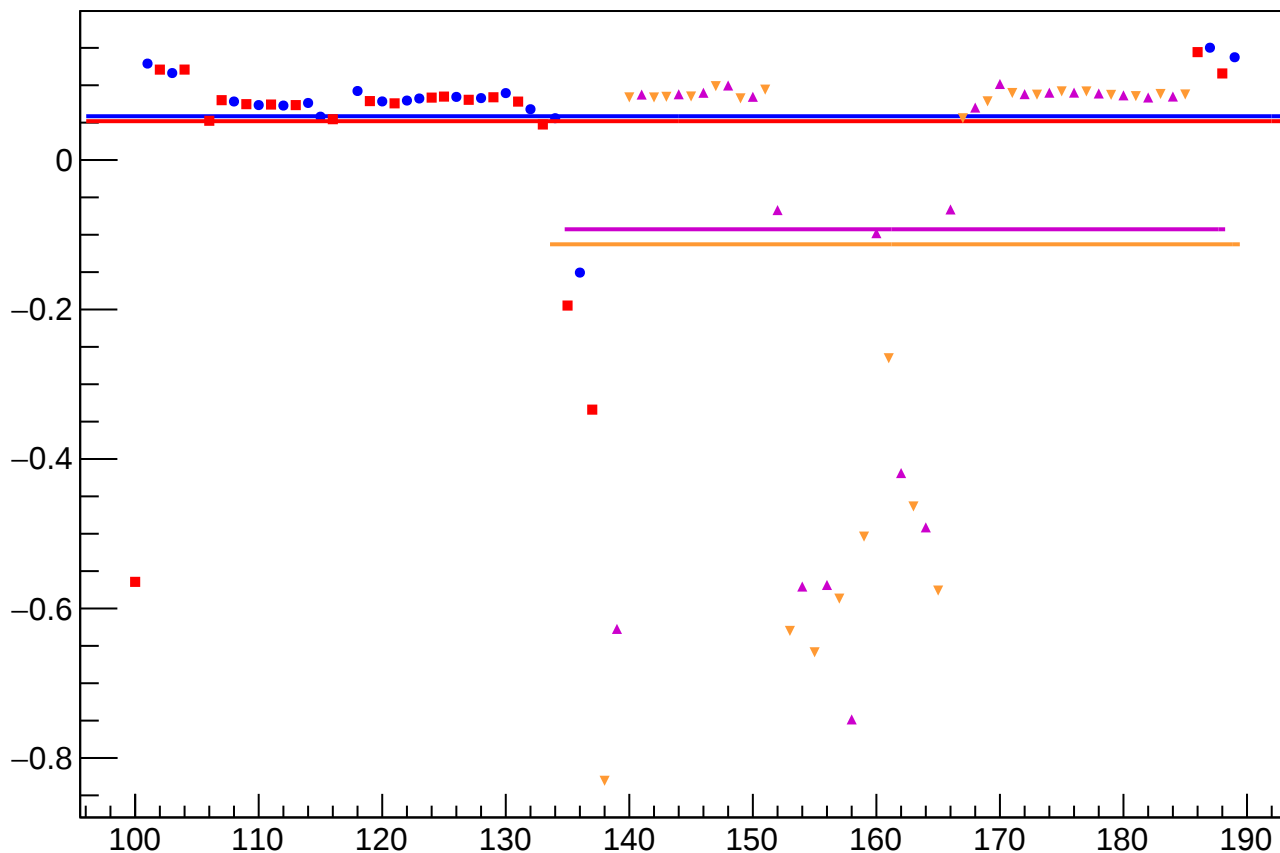
Right: 0.003+/-0.000 χ^2/NDF : 339792.8/39

In: 0.002+/-0.000 χ^2/NDF :665253.7/41

Out: 0.002+/-0.000 χ^2/NDF :743737.2/45

All: 0.002+/-0.000 χ^2/NDF : 1409343.2/87

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.059+/-0.000

χ^2/NDF : 439433407.2/18

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.055+/-0.000

χ^2/NDF : 1289291320.9/39

Right Out: 0.052+/-0.000

χ^2/NDF : 848204962.3/20

In: -0.042+/-0.000

χ^2/NDF : 12551265767.4/41

Out: -0.053+/-0.000

χ^2/NDF : 15939556748.6/45

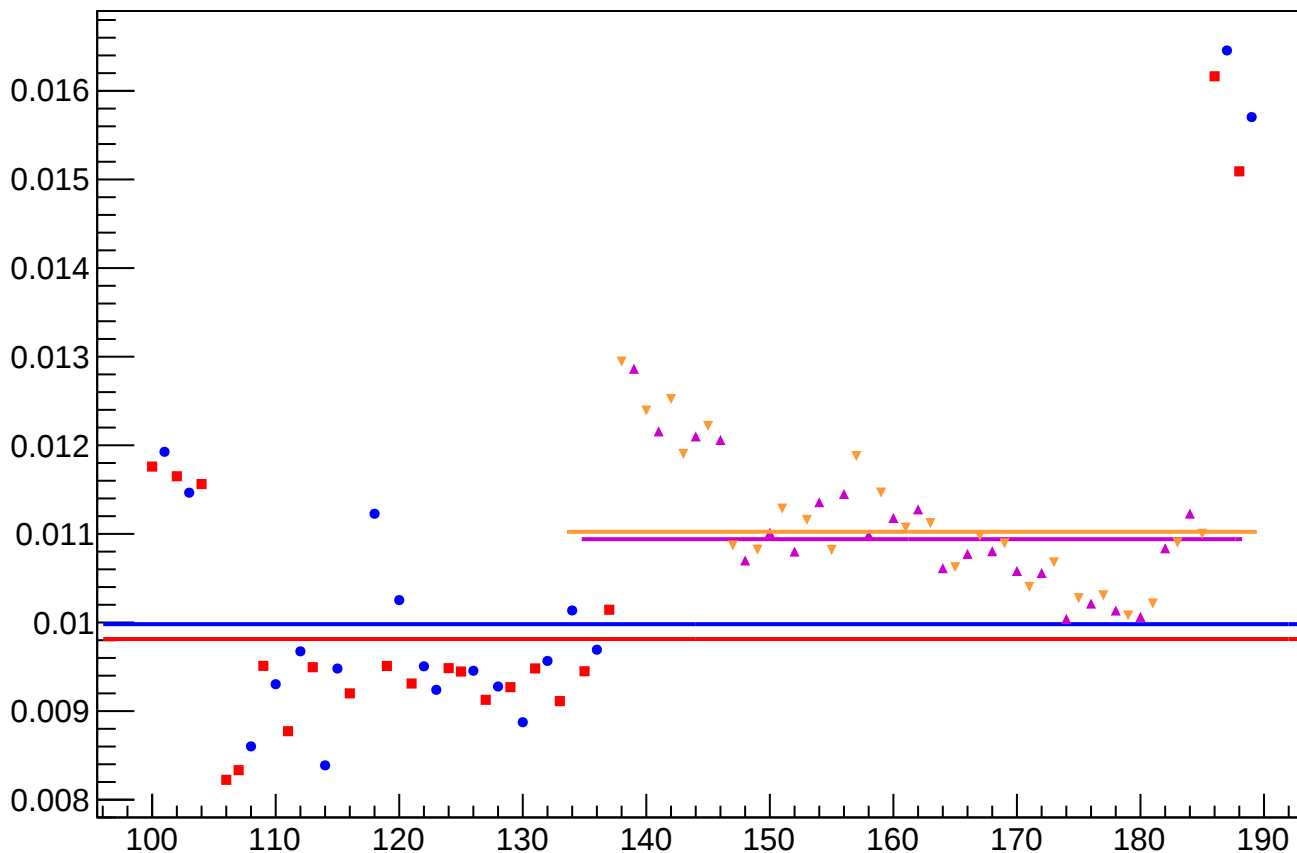
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: -0.048+/-0.000

χ^2/NDF : 28503767281.1/100

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 : 453828.4/20

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

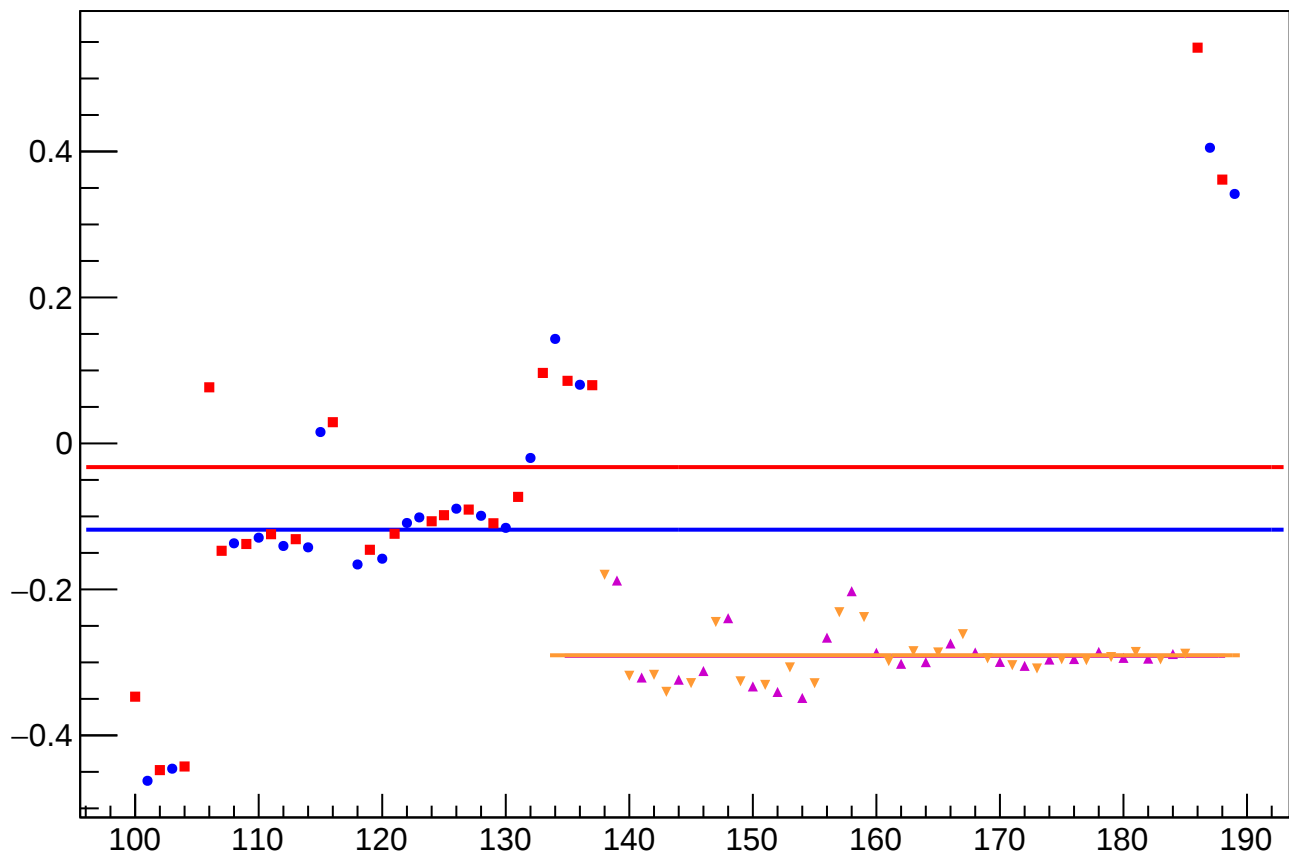
Right: 0.010+/-0.000 χ^2/NDF : 745050.8/39

In: 0.011+/-0.000 χ^2/NDF :503308.7/41

Out: 0.011+/-0.000 χ^2/NDF :749250.1/45

All: 0.011+/-0.000 χ^2/NDF : 1252825.5/87

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: -0.032 ± 0.000 $\chi^2/\text{NDF}: 33075895611.5/20$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

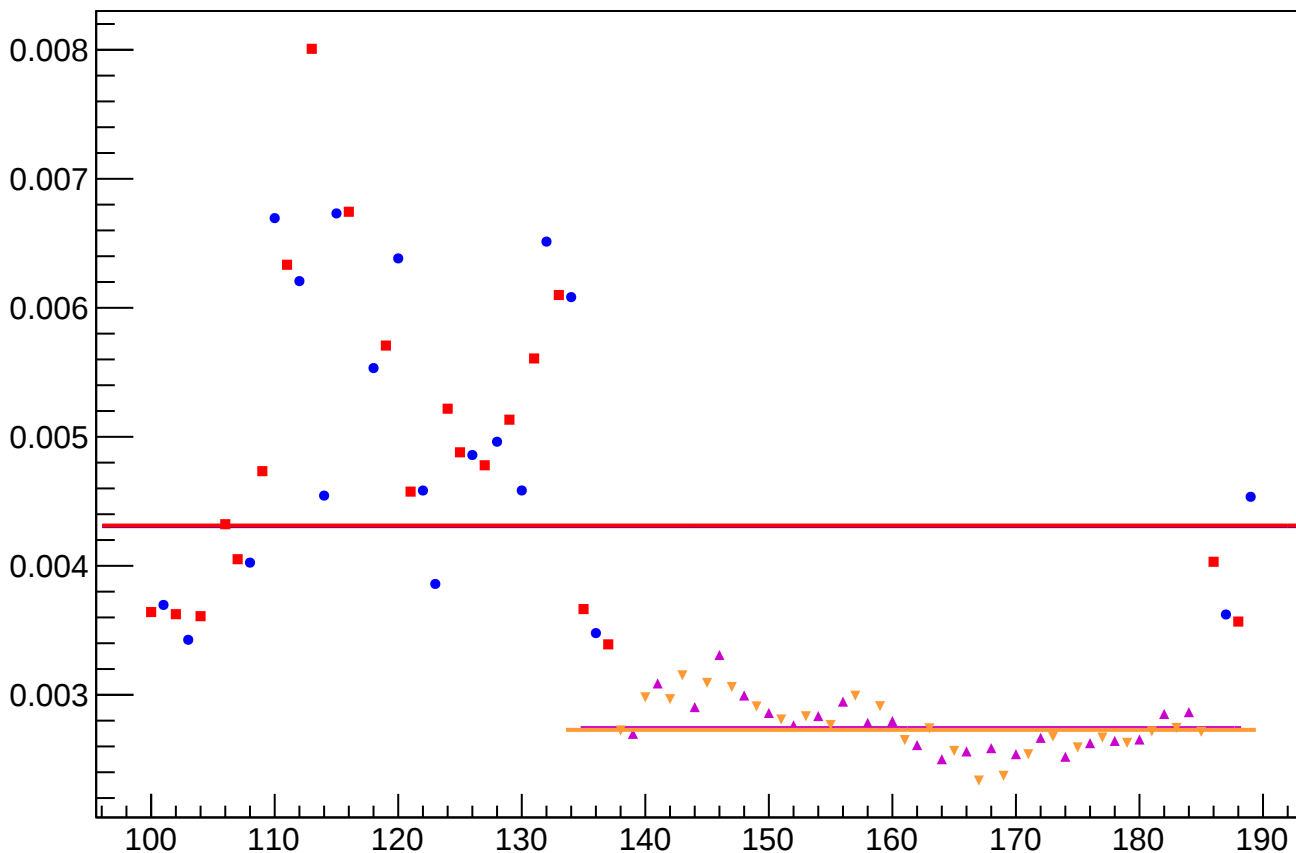
Right: -0.072 ± 0.000 $\chi^2/\text{NDF}: 54985903763.3/39$

In: -0.268 ± 0.000 $\chi^2/\text{NDF}: 32560029550.2/41$

Out: -0.253 ± 0.000 $\chi^2/\text{NDF}: 58442600084.7/45$

All: -0.260 ± 0.000 $\chi^2/\text{NDF}: 91276443332.4/90$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 629846.4/18

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 734963.2/20

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

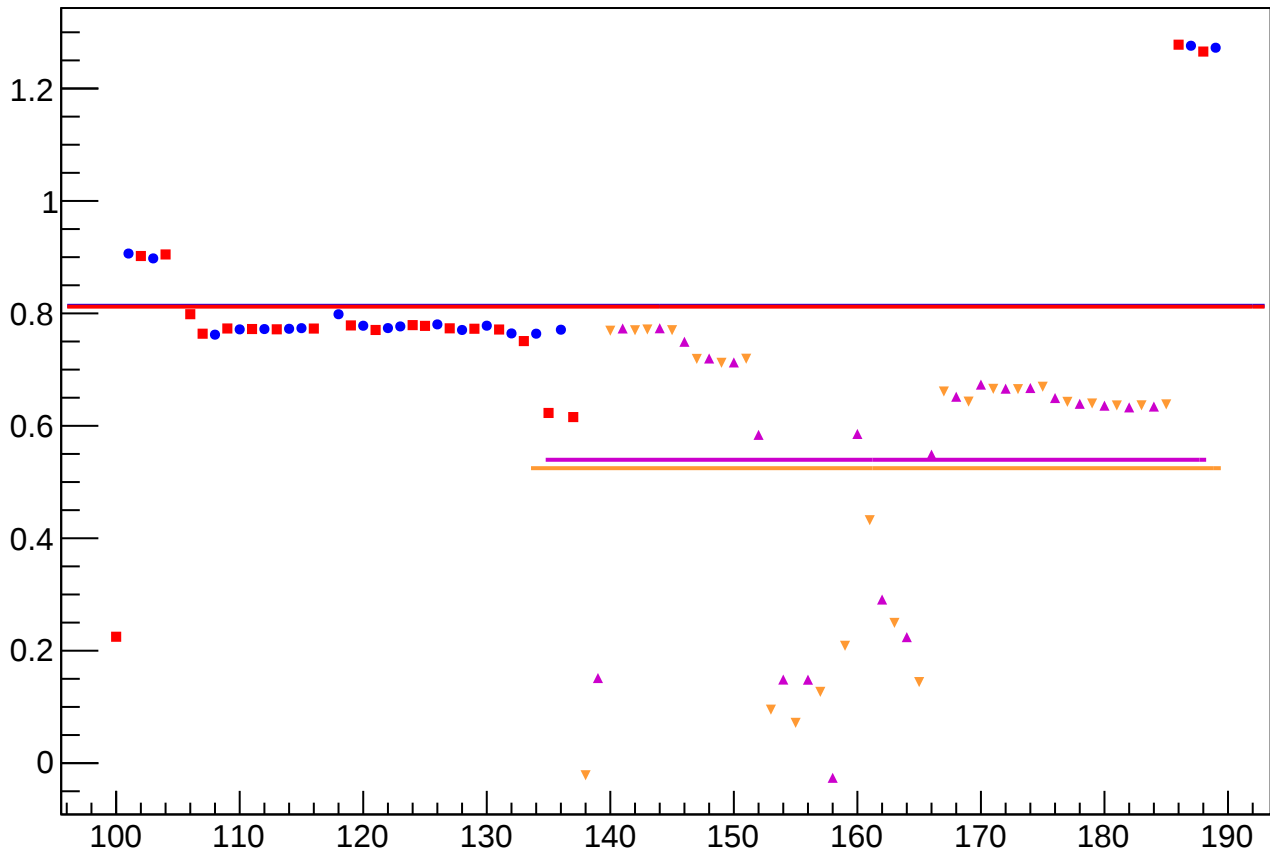
Right: 0.004+/-0.000 χ^2/NDF : 1364817.4/39

In: 0.003+/-0.000 χ^2/NDF :2233305.8/41

Out: 0.003+/-0.000 χ^2/NDF :2638636.1/45

All: 0.003+/-0.000 χ^2/NDF : 4871951.4/87

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: 0.812+/-0.000 χ^2/NDF : 1679116087.1/20

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532+/-0.000 χ^2/NDF : 17500739852.2/47

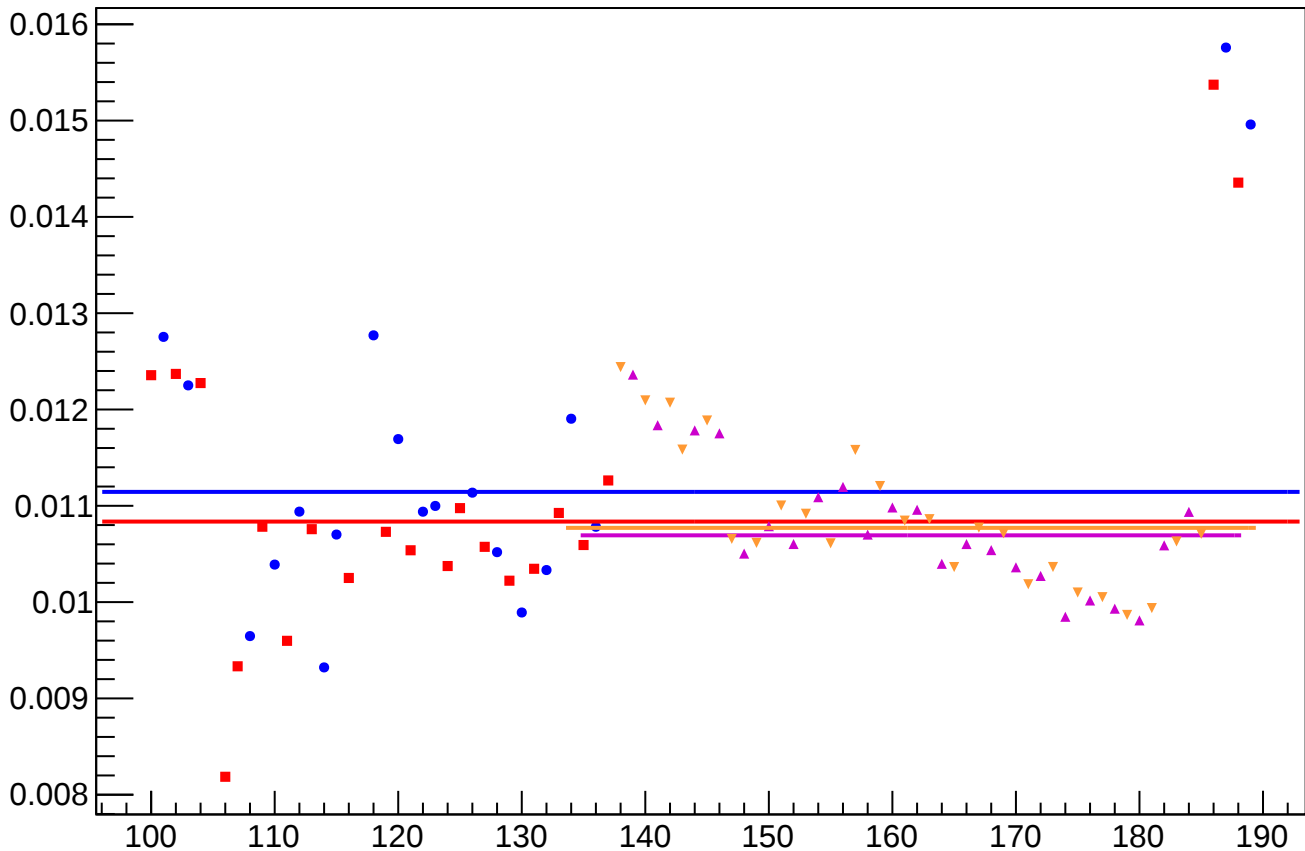
Right: 0.813+/-0.000 χ^2/NDF : 2373395994.4/39

In: 0.616+/-0.000 χ^2/NDF : 11599012968.0/41

Out: 0.613+/-0.000 χ^2/NDF : 15194642401.9/45

All: 0.615+/-0.000 χ^2/NDF : 26794220471.0/8

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 : 300831.6/20

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

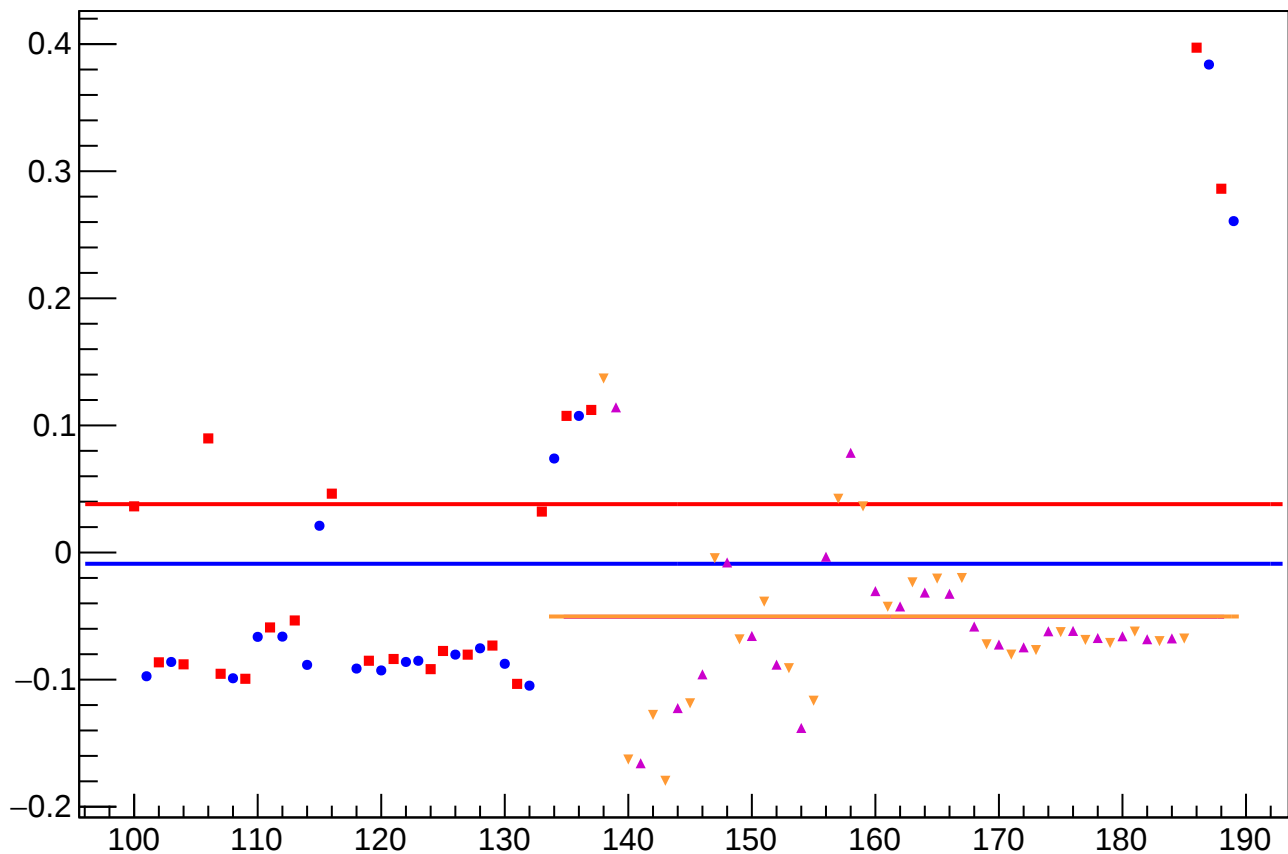
Right: 0.011+/-0.000 χ^2/NDF : 493358.8/39

In: 0.011+/-0.000 χ^2/NDF :322465.5/41

Out: 0.011+/-0.000 χ^2/NDF :432864.2/45

All: 0.011+/-0.000 χ^2/NDF : 755491.3/87

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.009+/-0.000 χ^2/NDF : 4578254303.3/18

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.038+/-0.000 χ^2/NDF : 8943980551.0/20

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

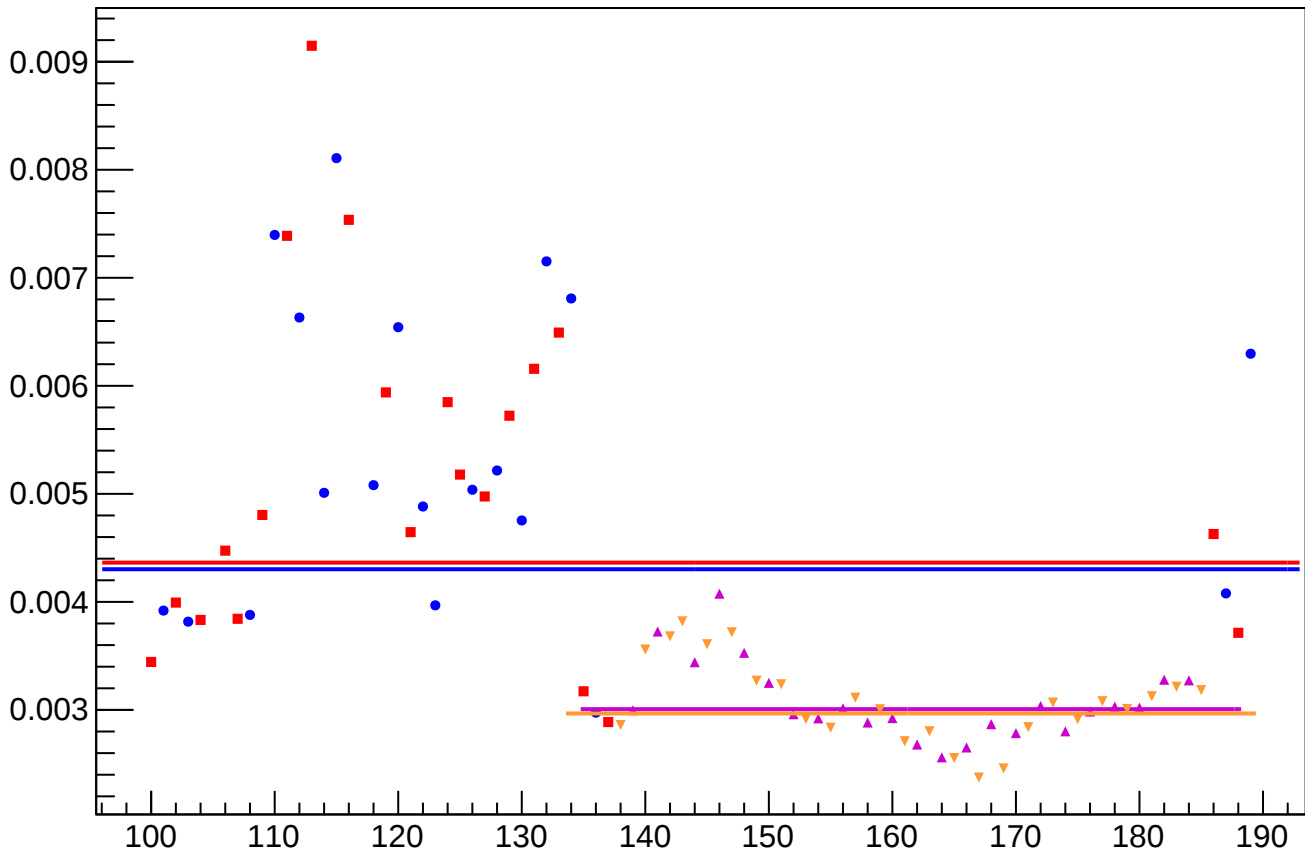
Right: 0.016+/-0.000 χ^2/NDF : 13898637295.9/39

In: -0.044+/-0.000 χ^2/NDF : 11183462090.5/41

Out: -0.036+/-0.000 χ^2/NDF : 18606531373.6/45

All: -0.040+/-0.000 χ^2/NDF : 29856703806.2/100

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 : 1025832.1/20

Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

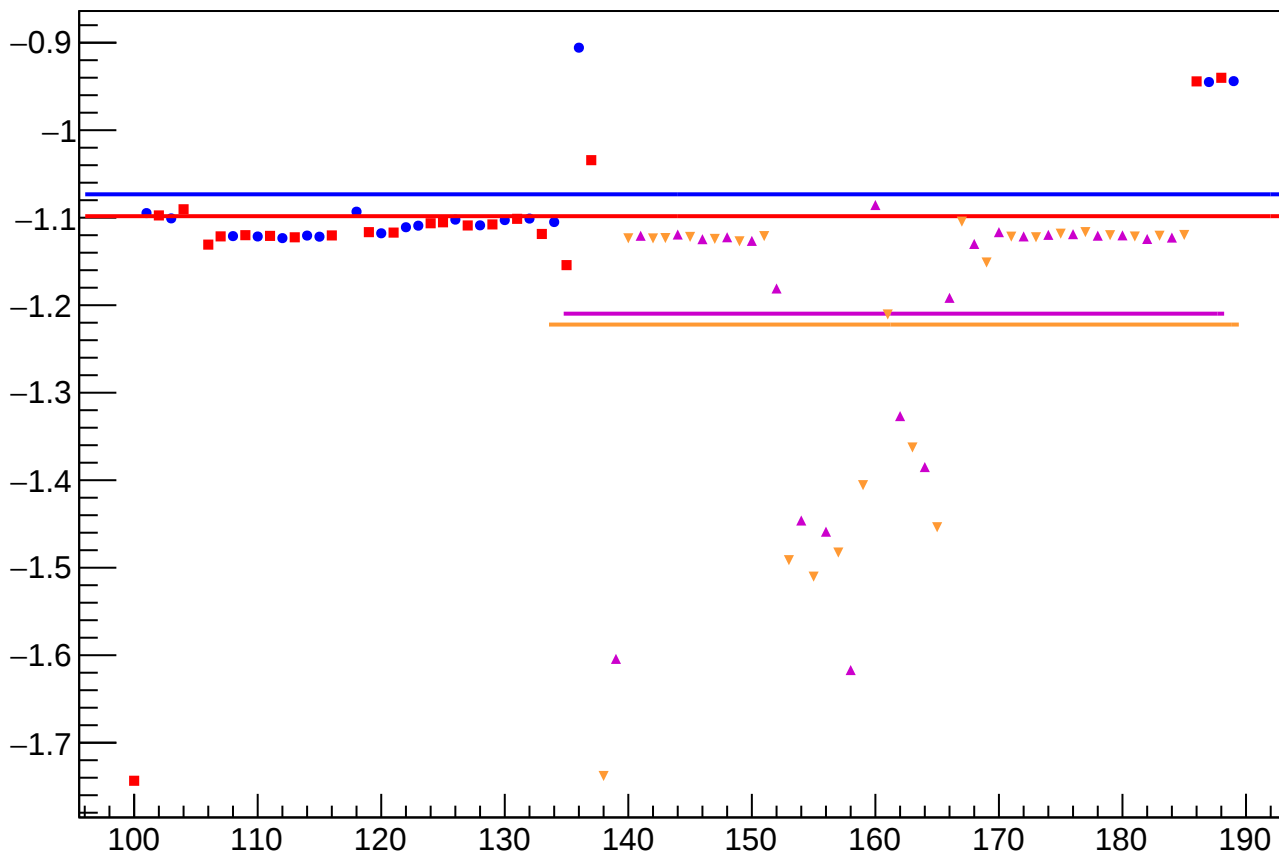
Right: 0.004+/-0.000 χ^2/NDF : 1999127.1/39

In: 0.003+/-0.000 χ^2/NDF :2218744.6/41

Out: 0.003+/-0.000 χ^2/NDF :2718690.9/45

All: 0.003+/-0.000 χ^2/NDF : 4938205.8/87

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: -1.098+/-0.000 χ^2/NDF : 428599784.7/20

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

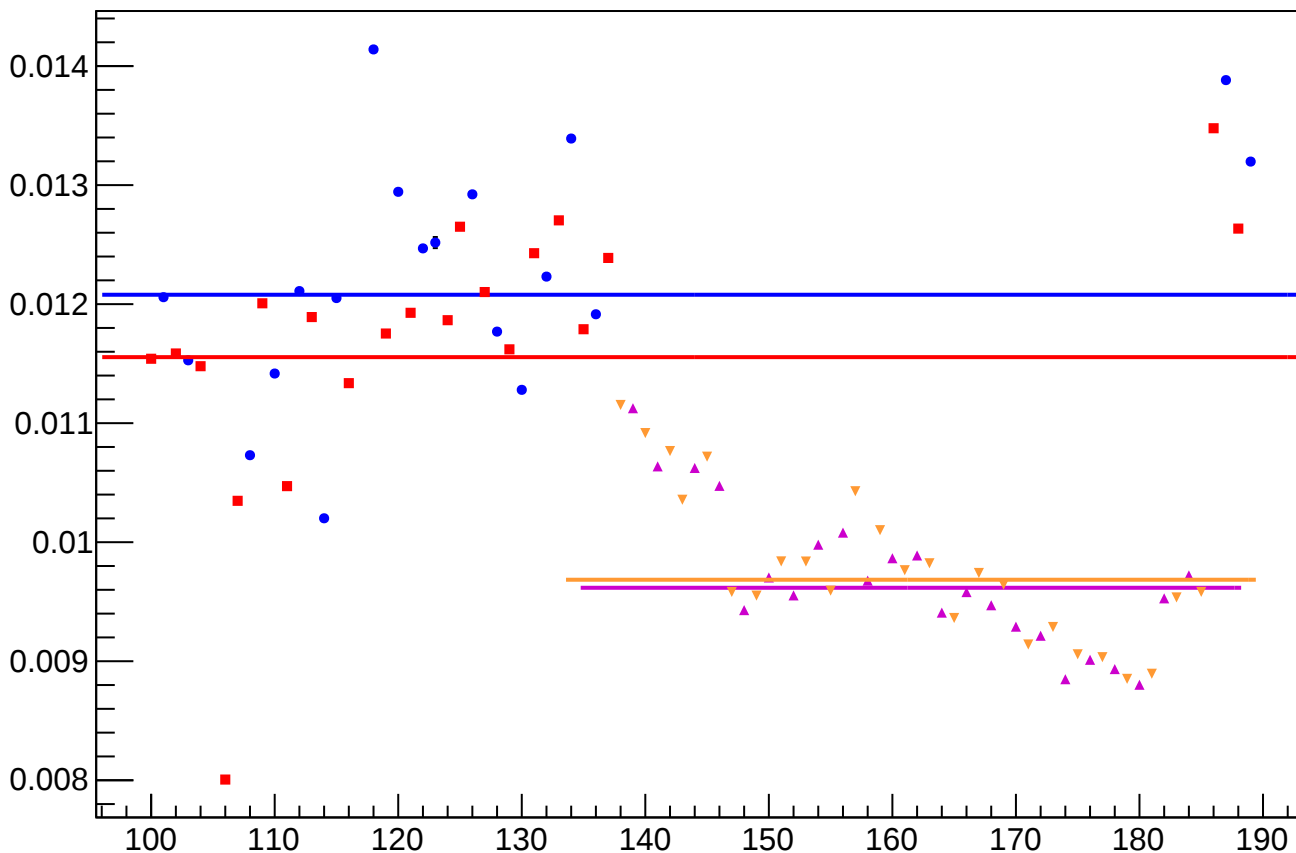
Right: -1.087+/-0.000 χ^2/NDF : 709074076.3/39

In: -1.181+/-0.000 χ^2/NDF : 5473181072.2/41

Out: -1.192+/-0.000 χ^2/NDF : 6408592232.5/45

All: -1.187+/-0.000 χ^2/NDF : 11896711350.7/91

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 : 183547.5/20

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

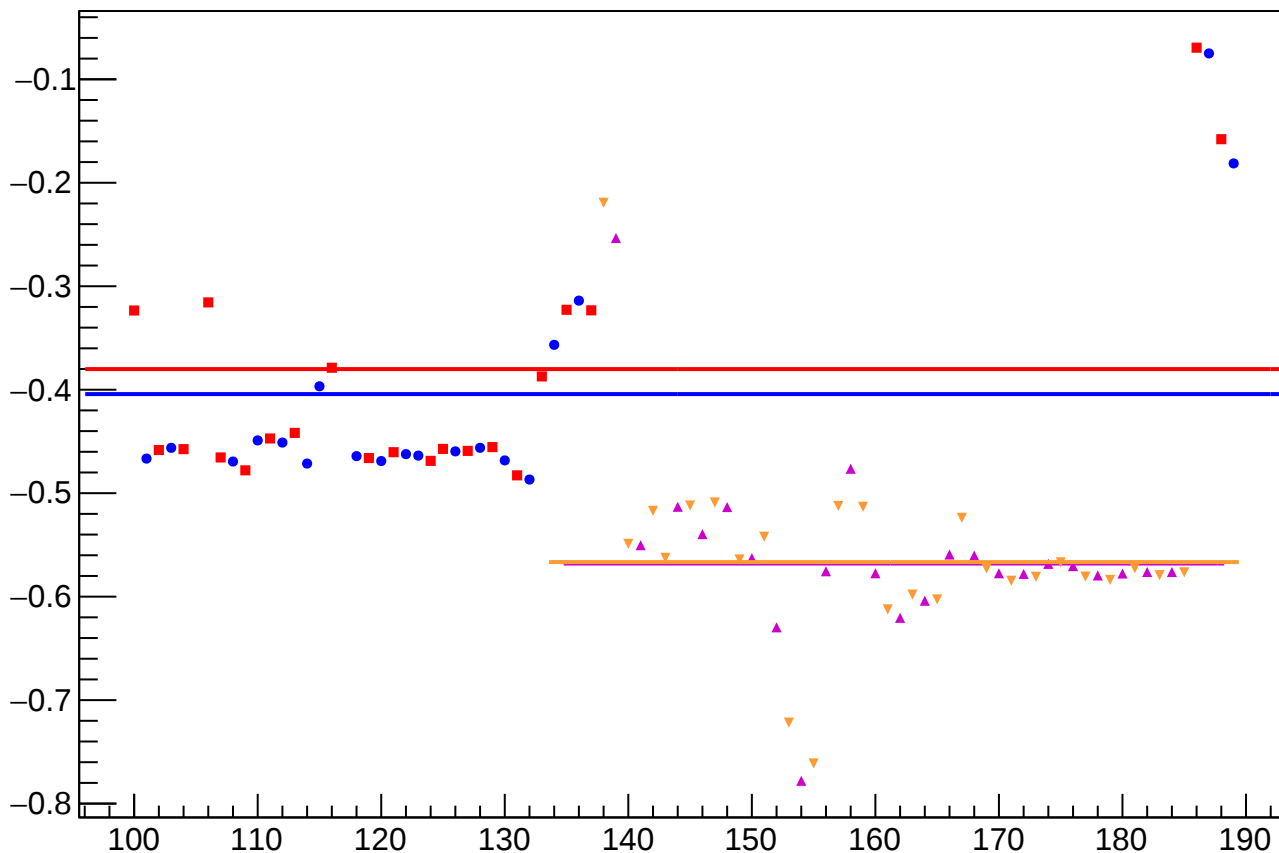
Right: 0.012+/-0.000 χ^2/NDF : 269245.3/39

In: 0.010+/-0.000 χ^2/NDF :651398.7/41

Out: 0.010+/-0.000 χ^2/NDF :637800.8/45

All: 0.010+/-0.000 χ^2/NDF : 1289200.9/87

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.404 ± 0.000 χ^2/NDF : 3641344613.3/18

Left Out: -0.567 ± 0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.380 ± 0.000 χ^2/NDF : 6659197113.9/20

Left In: -0.568 ± 0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567 ± 0.000 χ^2/NDF : 23829000396.4/47

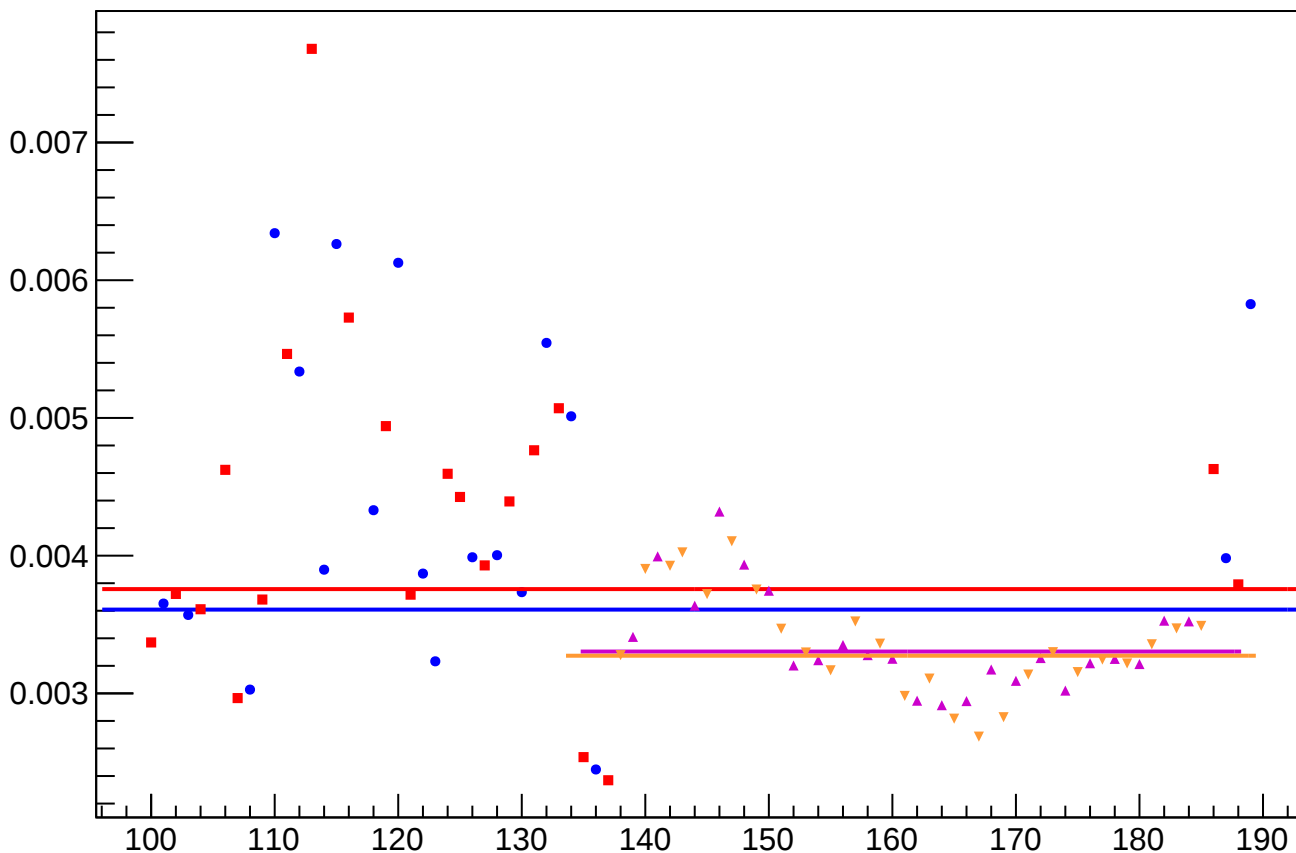
Right: -0.392 ± 0.000 χ^2/NDF : 10438959395.7/39

In: -0.529 ± 0.000 χ^2/NDF : 23438730405.4/41

Out: -0.523 ± 0.000 χ^2/NDF : 33166515505.5/45

All: -0.526 ± 0.000 χ^2/NDF : 56652261333.8/96

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 : 910918.7/20

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

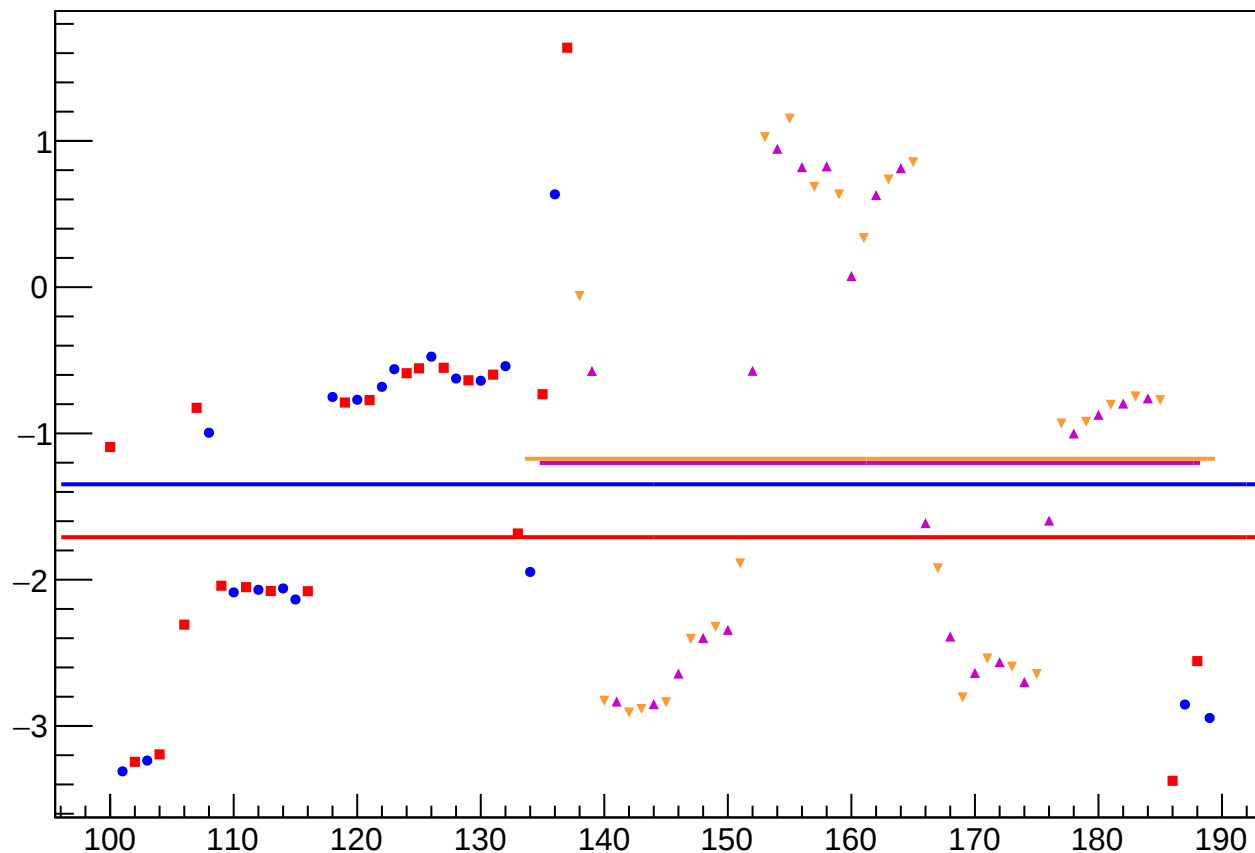
Right: 0.004+/-0.000 χ^2/NDF : 1891644.4/39

In: 0.003+/-0.000 χ^2/NDF : 1320912.1/41

Out: 0.003+/-0.000 χ^2/NDF : 1482556.3/45

All: 0.003+/-0.000 χ^2/NDF : 2803760.4/87

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.348 $\pm$ 0.000 χ^2/NDF : 2289584044.9/18

Left Out: -1.173 $\pm$ 0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.709 $\pm$ 0.000 χ^2/NDF : 2061167680.7/20

Left In: -1.202 $\pm$ 0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187 $\pm$ 0.000 χ^2/NDF : 12490828303.3/47

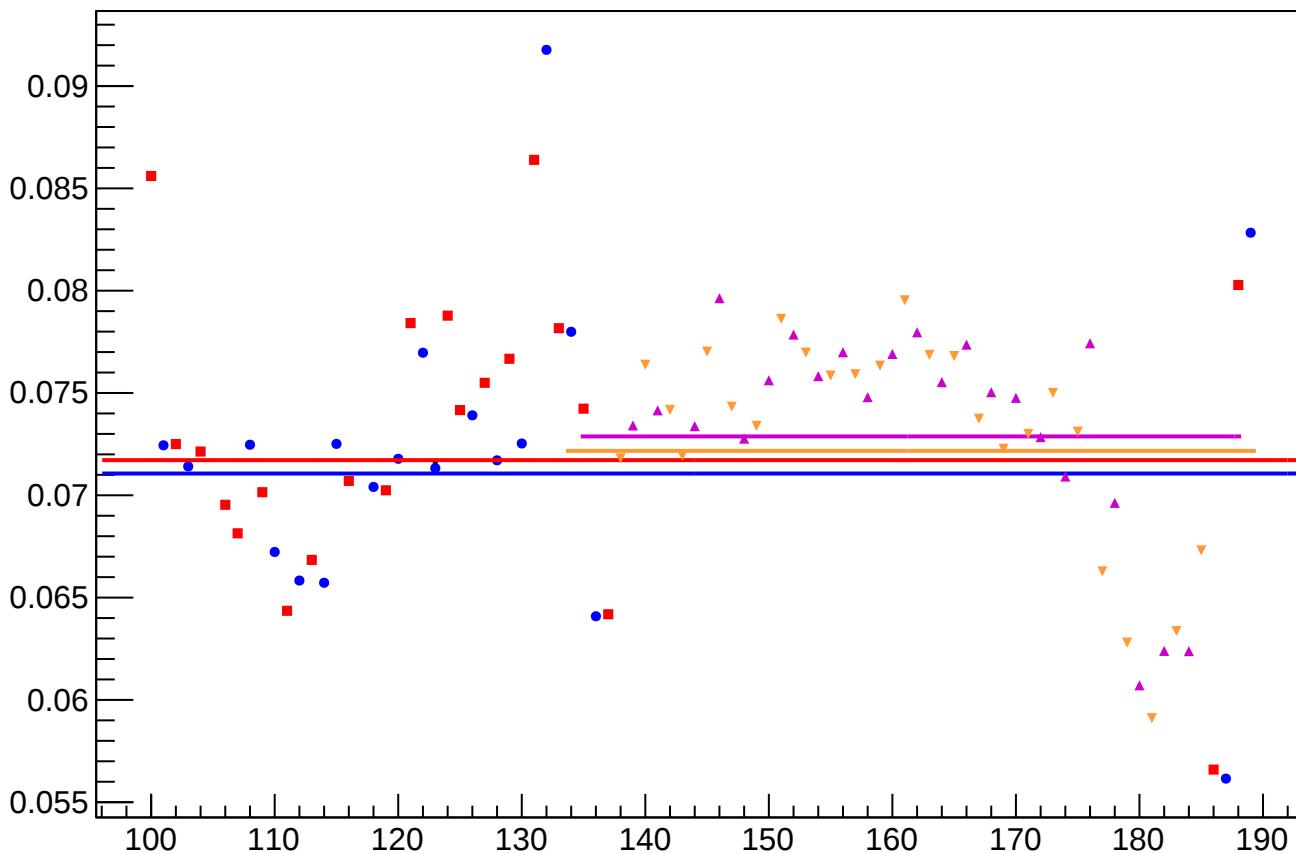
Right: -1.539 $\pm$ 0.000 χ^2/NDF : 4448371452.4/39

In: -1.247 $\pm$ 0.000 χ^2/NDF : 7917223364.2/41

Out: -1.341 $\pm$ 0.000 χ^2/NDF : 9256002175.4/45

All: -1.296 $\pm$ 0.000 χ^2/NDF : 17194882539.4/91

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 115776.6/18

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.072+/-0.000 χ^2/NDF : 141768.7/20

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

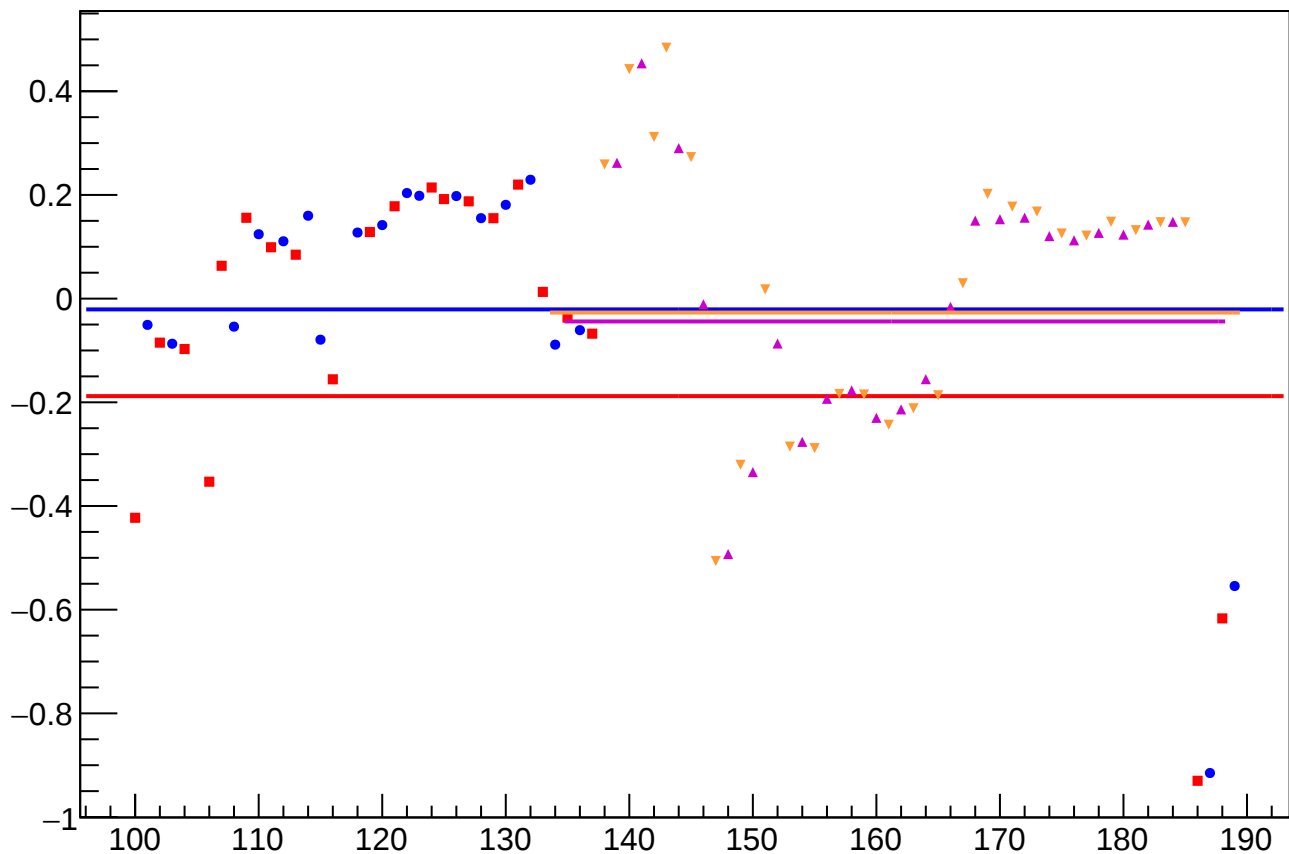
Right: 0.071+/-0.000 χ^2/NDF : 258184.6/39

In: 0.072+/-0.000 χ^2/NDF :305726.0/41

Out: 0.072+/-0.000 χ^2/NDF :364478.6/45

All: 0.072+/-0.000 χ^2/NDF : 670614.7/87

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: -0.188+/-0.000 χ^2/NDF : 6774192768.4/20

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

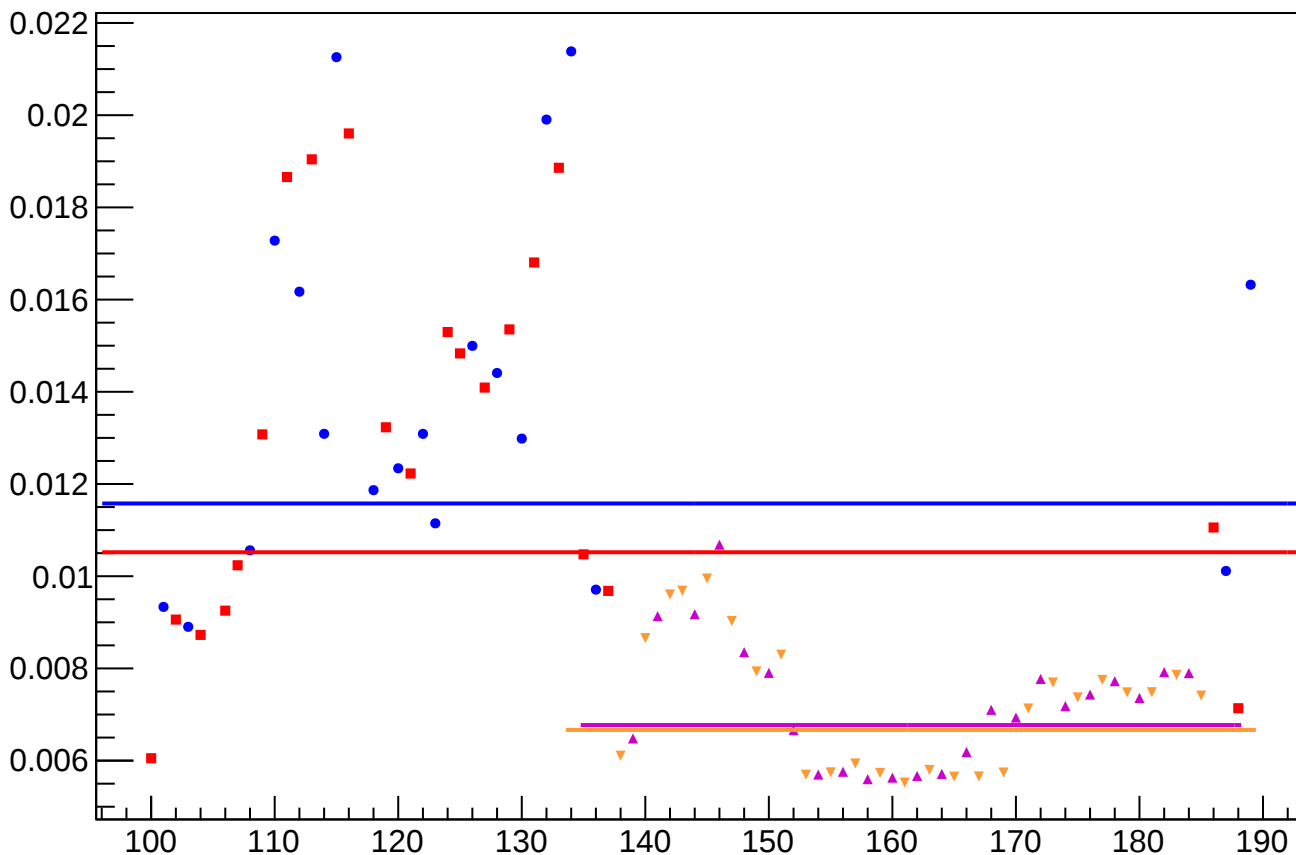
Right: -0.116+/-0.000 χ^2/NDF : 9741868226.0/39

In: -0.041+/-0.000 χ^2/NDF : 17966765276.1/41

Out: -0.049+/-0.000 χ^2/NDF : 28517931797.3/45

All: -0.046+/-0.000 χ^2/NDF : 46498179306.9/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 756290.5/18

Left Out: 0.007+/-0.000 χ^2/NDF : 1143768.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1398023.3/20

Left In: 0.007+/-0.000 χ^2/NDF : 934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

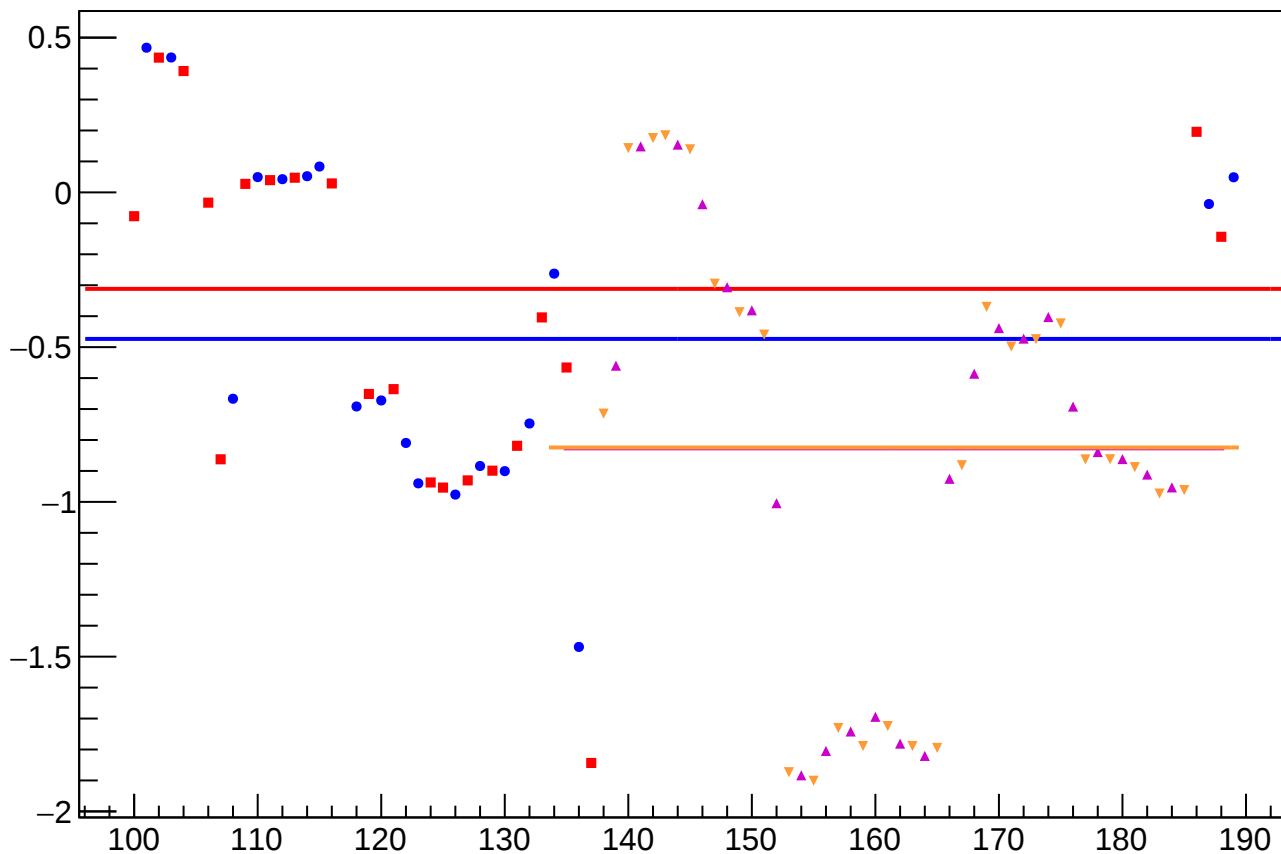
Right: 0.011+/-0.000 χ^2/NDF : 2213659.2/39

In: 0.007+/-0.000 χ^2/NDF : 3593825.7/41

Out: 0.007+/-0.000 χ^2/NDF : 4104542.2/45

All: 0.007+/-0.000 χ^2/NDF : 7706823.3/87

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: -0.312+/-0.000 χ^2/NDF : 297116032.8/20

Left In: -0.827+/-0.000 χ^2/NDF :921651117.3/22

Left: -0.826+/-0.000 χ^2/NDF : 2025270716.0/47

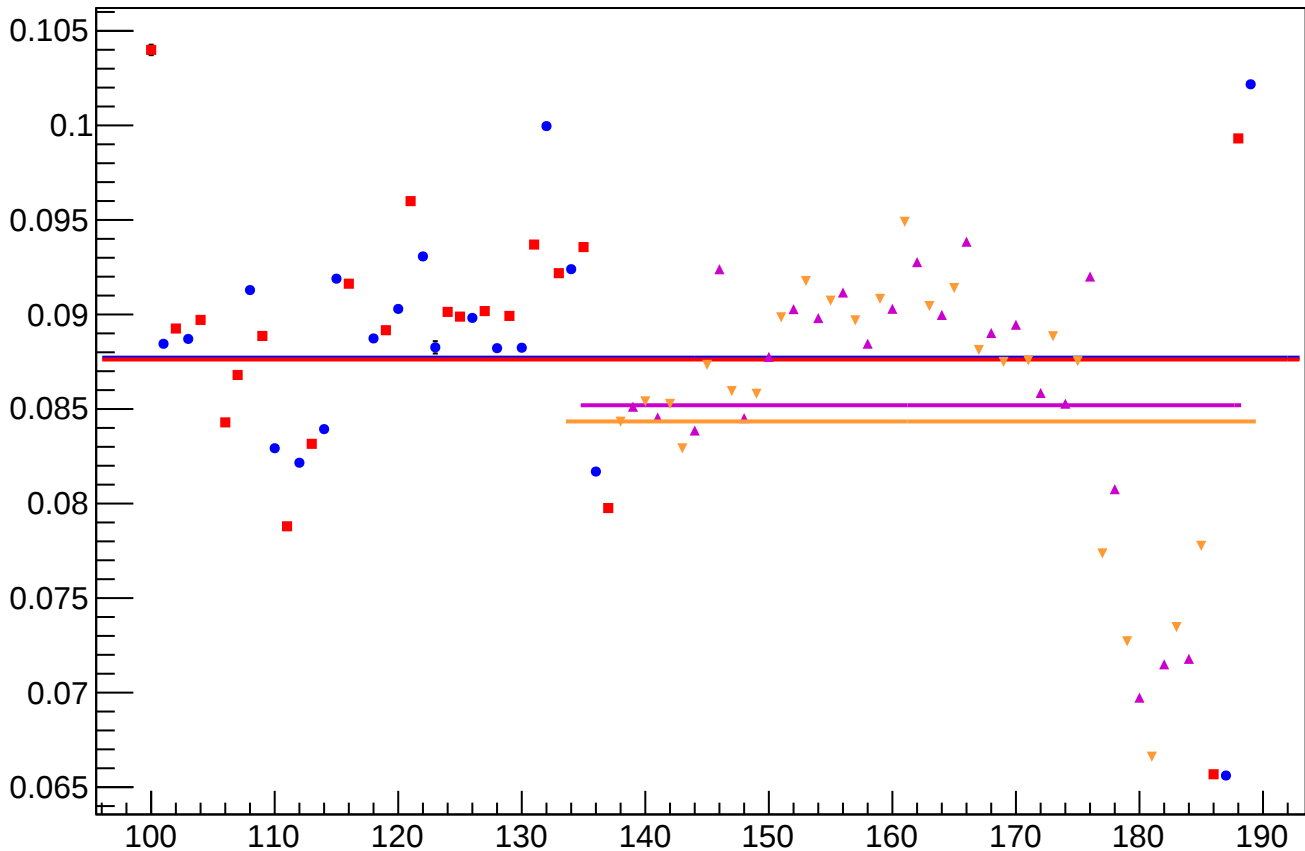
Right: -0.387+/-0.000 χ^2/NDF : 669856628.7/39

In: -0.726+/-0.000 χ^2/NDF :1365467648.5/41

Out: -0.672+/-0.000 χ^2/NDF :1599921004.6/45

All: -0.698+/-0.000 χ^2/NDF : 2970389840.6/8

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: 149974.2/20

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

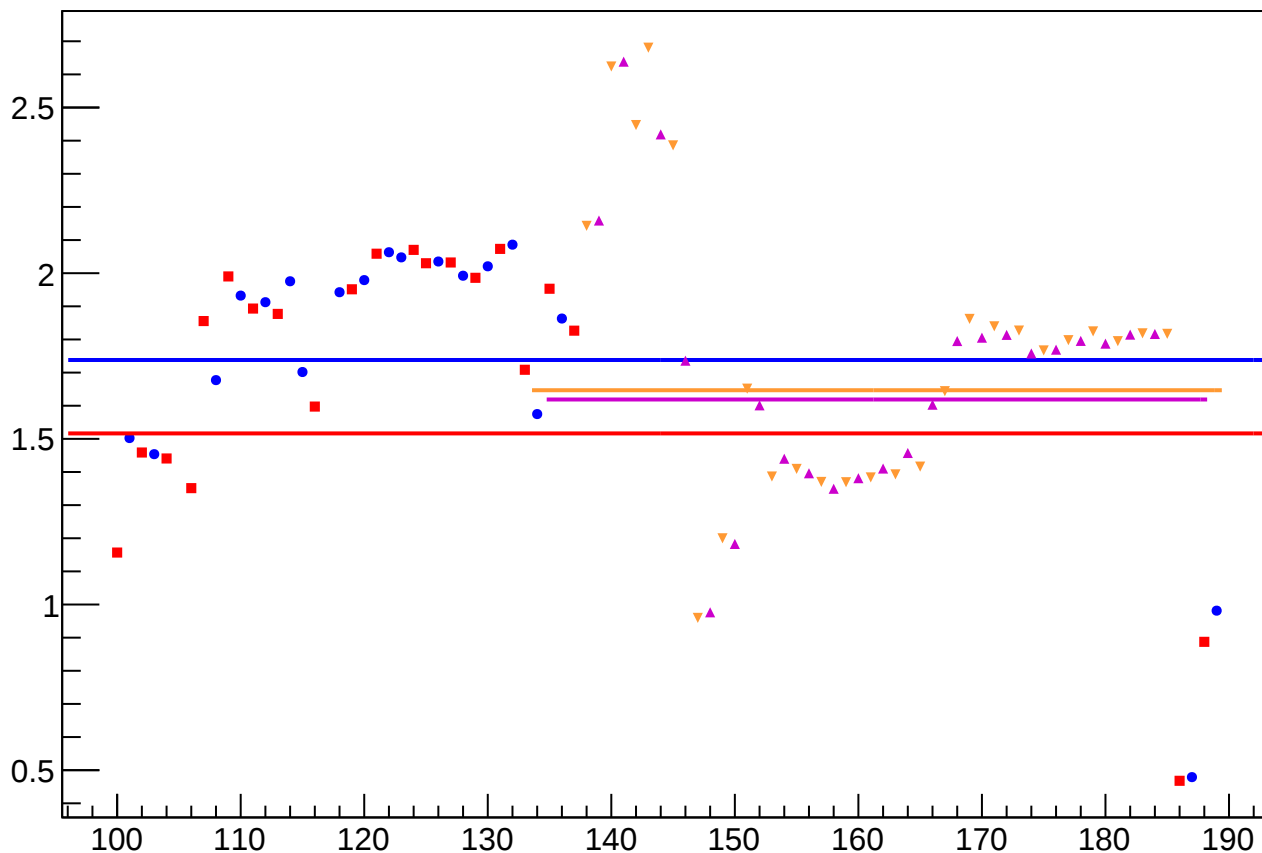
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 237958.8/39

In: 0.086 $\pm$ 0.000 χ^2 /NDF:334831.3/41

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:454565.5/45

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 790658.4/87

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: 1.516 $\pm$ 0.000 χ^2 /NDF: 7825919726.1/20

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

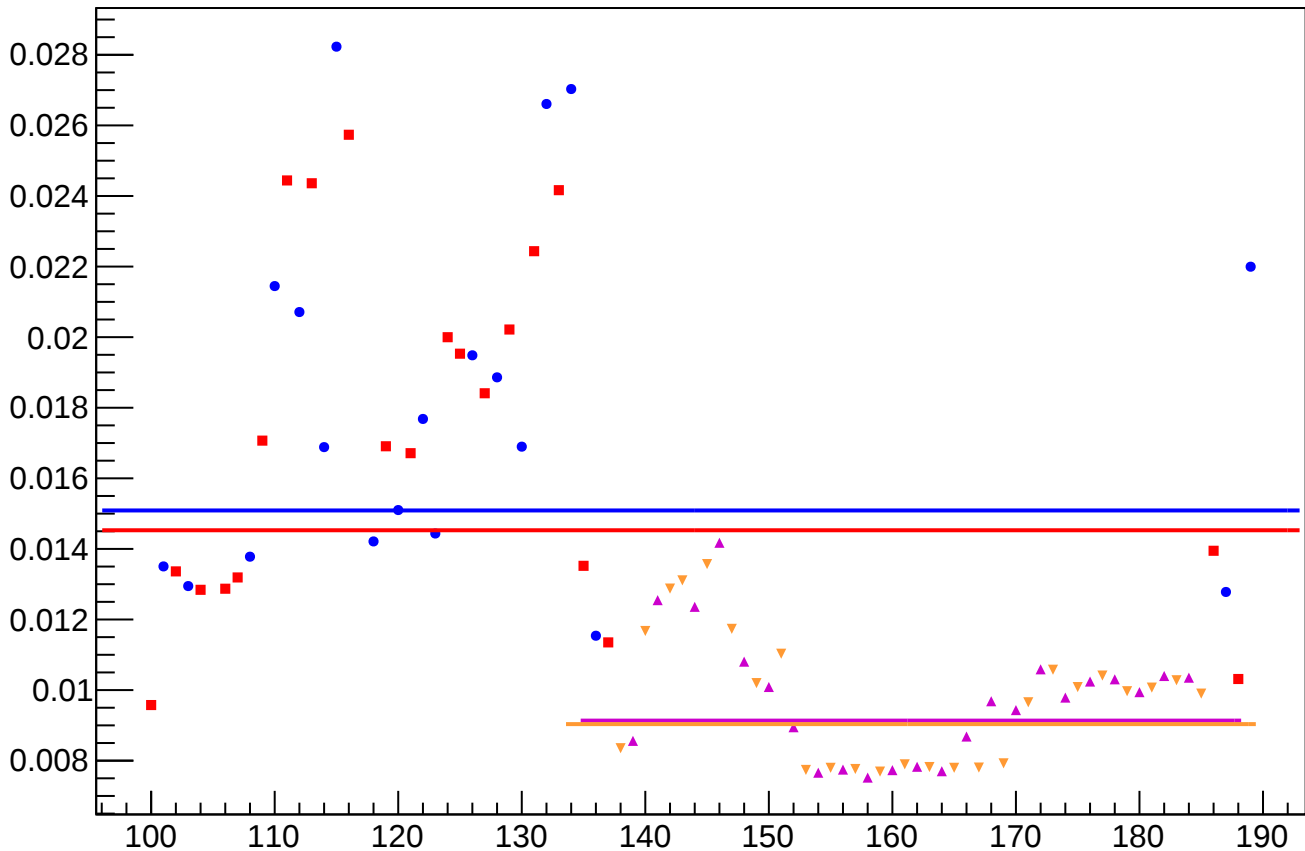
Right: 1.618 $\pm$ 0.000 χ^2 /NDF: 11626220348.7/39

In: 1.634 $\pm$ 0.000 χ^2 /NDF: 24025729727.9/41

Out: 1.629 $\pm$ 0.000 χ^2 /NDF: 34842572805.6/45

All: 1.631 $\pm$ 0.000 χ^2 /NDF: 58870887273.4/86

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 : 1086975.4/20

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

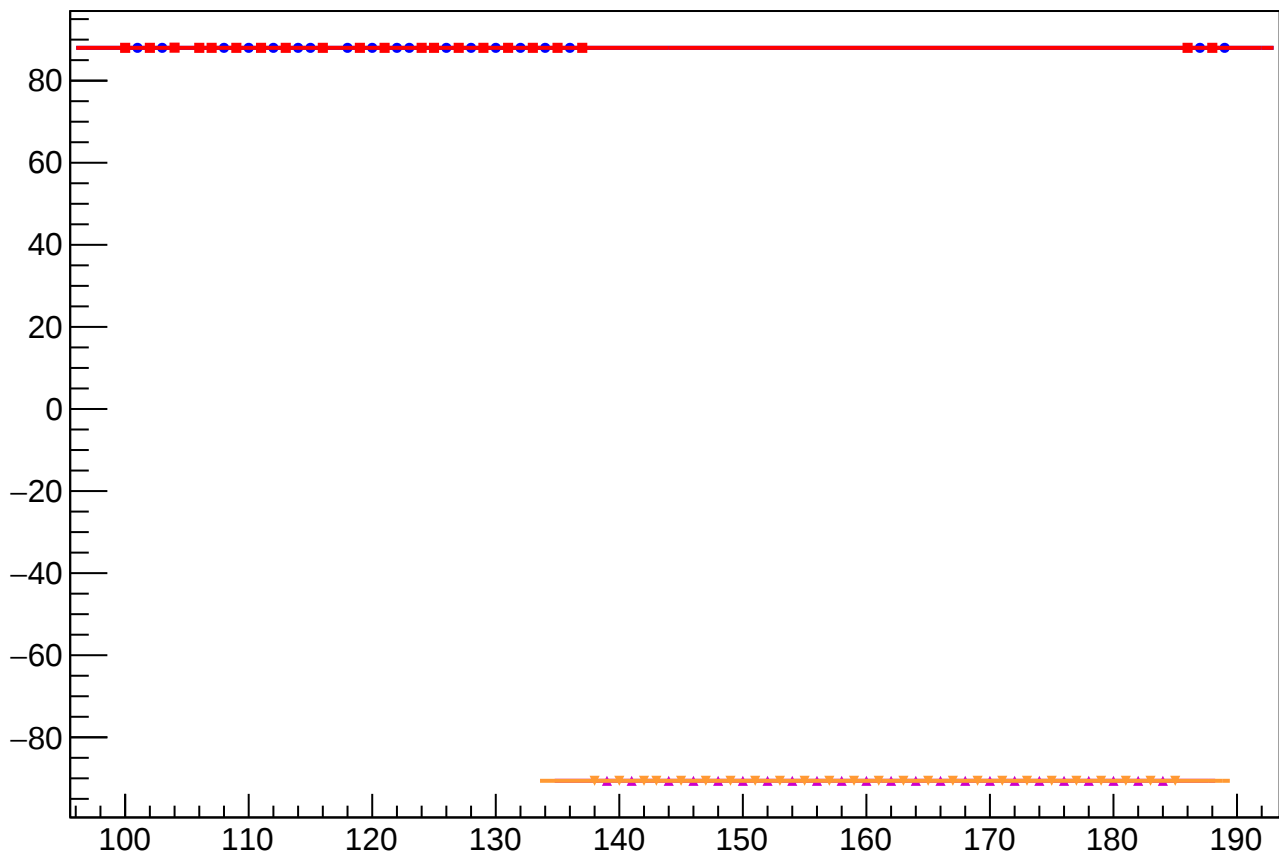
Right: 0.015+/-0.000 χ^2/NDF : 1832773.4/39

In: 0.010+/-0.000 χ^2/NDF :3320435.9/41

Out: 0.010+/-0.000 χ^2/NDF :3839516.8/45

All: 0.010+/-0.000 χ^2/NDF : 7162219.9/87

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001 $\pm$ 0.000 χ^2 /NDF: 1908412.3/18

Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 5785821.4/24

Right Out: 88.003 $\pm$ 0.000 χ^2 /NDF: 78445204496693473660475801600.0/20

Left In: -90.599 $\pm$ 0.000 χ^2 /NDF: 7134230.8/22

Left: -90.599 $\pm$ 0.000 χ^2 /NDF: 11903242.1/47

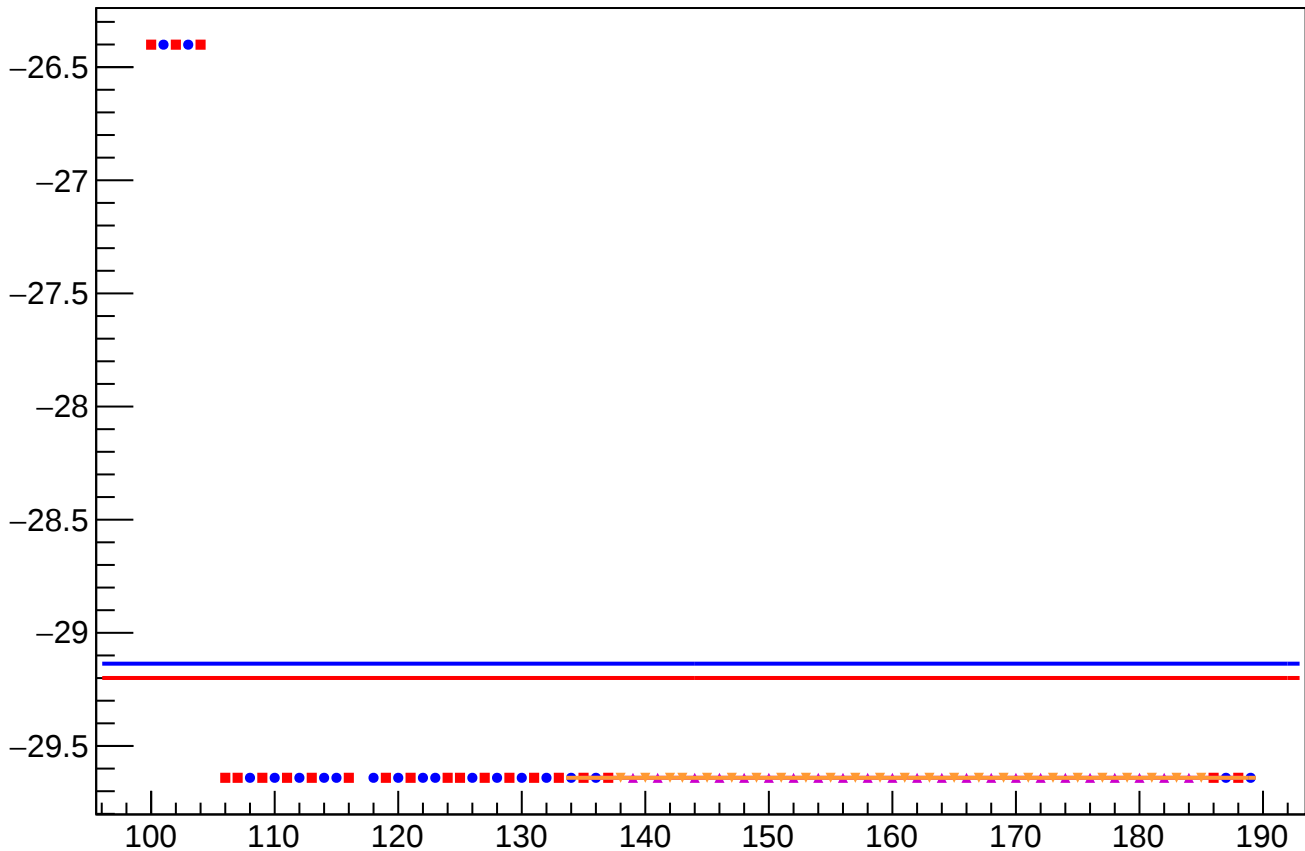
Right: 88.002 $\pm$ 0.000 χ^2 /NDF: 8079671752425549

In: -37.593 $\pm$ 0.000 χ^2 /NDF: 17002686769490966

Out: -35.406 $\pm$ 0.000 χ^2 /NDF: 1877900141319523

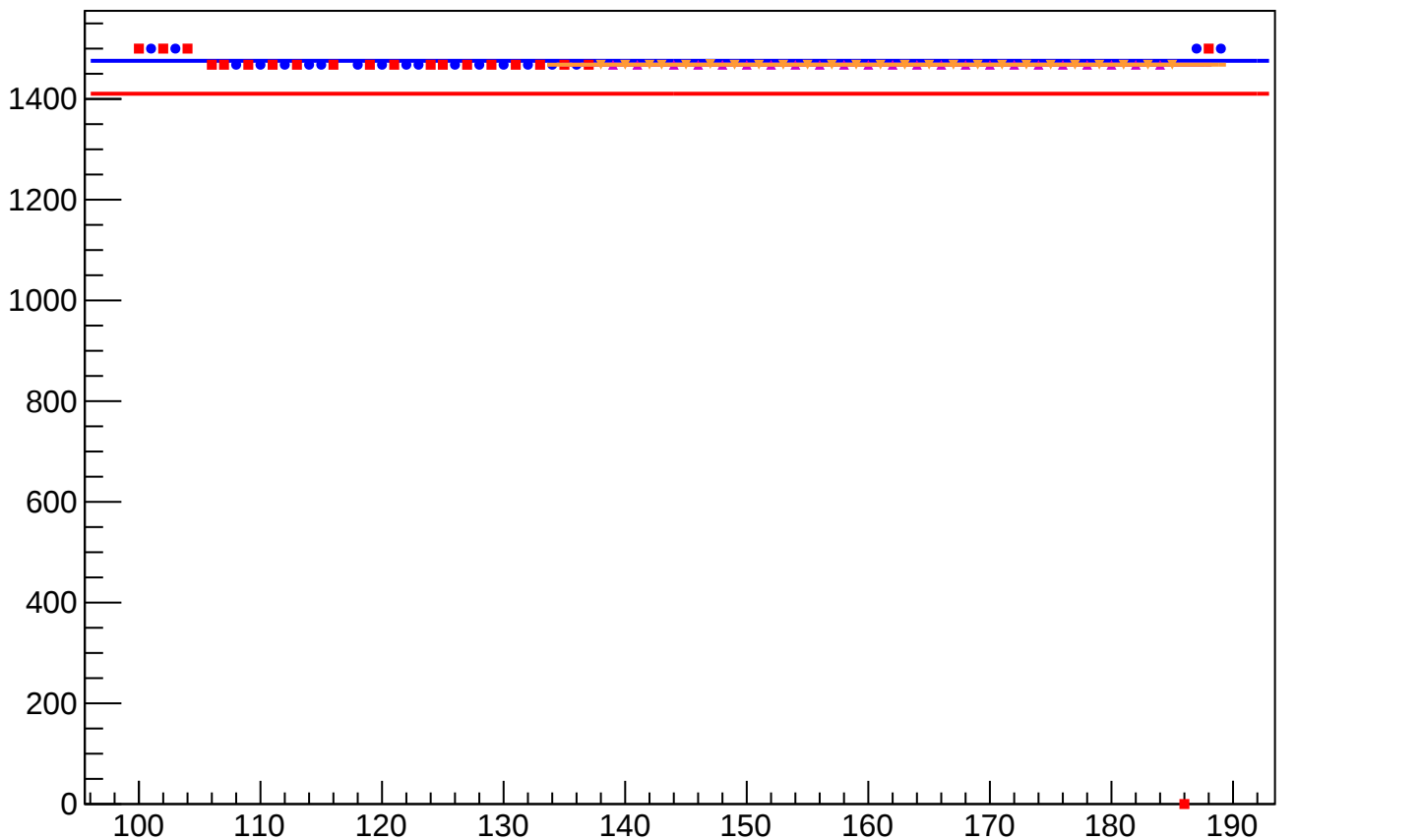
All: -36.457 $\pm$ 0.000 χ^2 /NDF: 357880306877

epics_HWienAngles_mean vs Slug, Sign Corrected



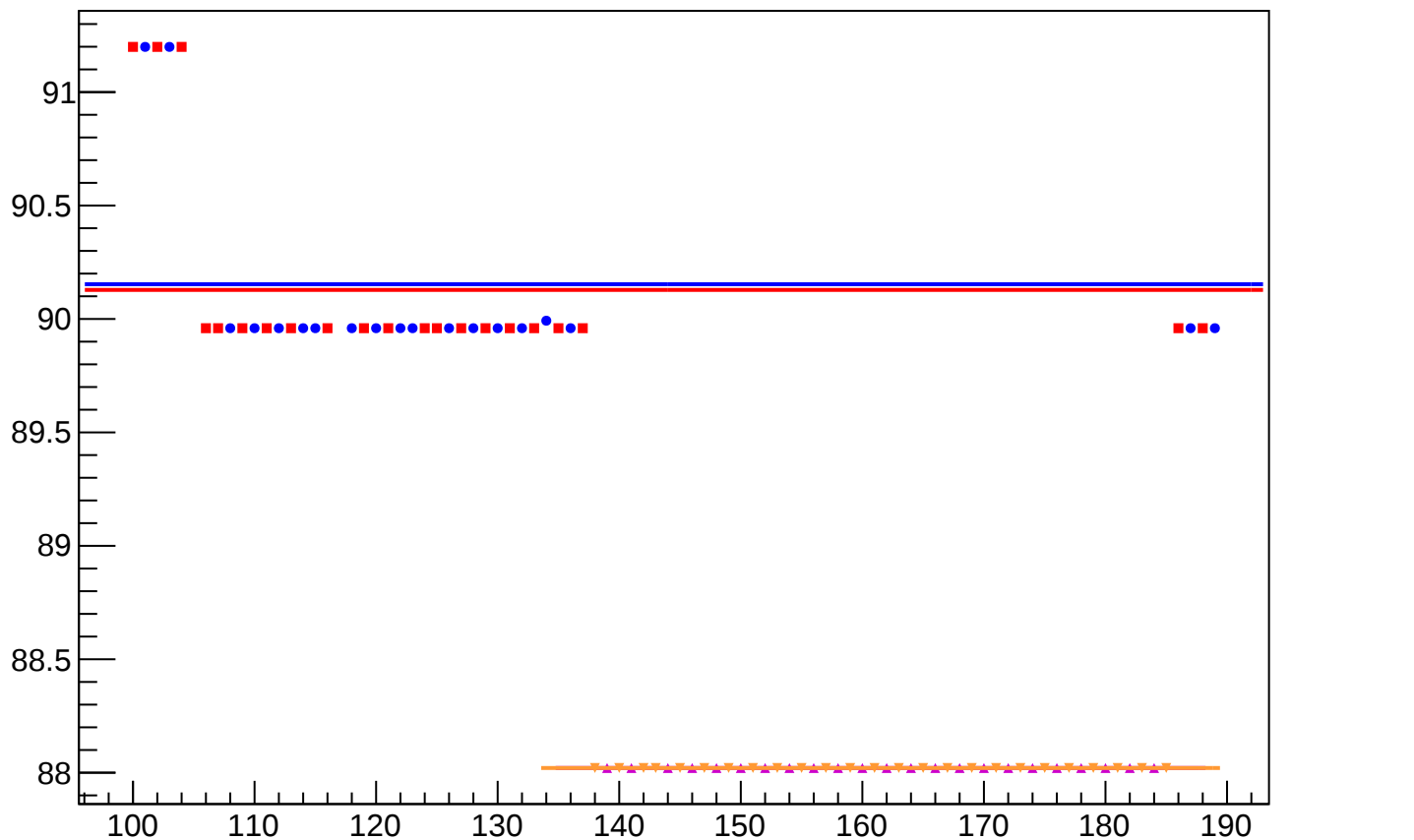
Right In: -29.136+/-0.000 χ^2/NDF : 1045882258575210691666098169839616.0/18
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.200+/-0.000 χ^2/NDF : 1051928518309862907977712074227712.0/20
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.491+/-0.000 χ^2/NDF : 11814855617854214
 Out: -29.504+/-0.000 χ^2/NDF : 1166486305984740
 All: -29.498+/-0.000 χ^2/NDF : 234820895439

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1475.795+/-0.000	χ^2/NDF : 143396300032192981544873035586076672.0/18	Left: 1468.022+/-0.000	χ^2/NDF : 130807817753460
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1441.188+/-0.000	χ^2/NDF : 81136939970522
Right Out: 1410.399+/-0.000	χ^2/NDF : 79278091991577071825344578947307798528.0/20	In: 1470.309+/-0.000	χ^2/NDF : 1758331146832553
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1450.233+/-0.000	χ^2/NDF : 812347160317393
	All: 1459.887+/-0.000		χ^2/NDF : 81944928932

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: 90.128+/-0.000

χ^2/NDF : 154077626291112554148546356445184.0/20

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.140+/-0.000

χ^2/NDF : 3072771960660464

In: 88.654+/-0.000

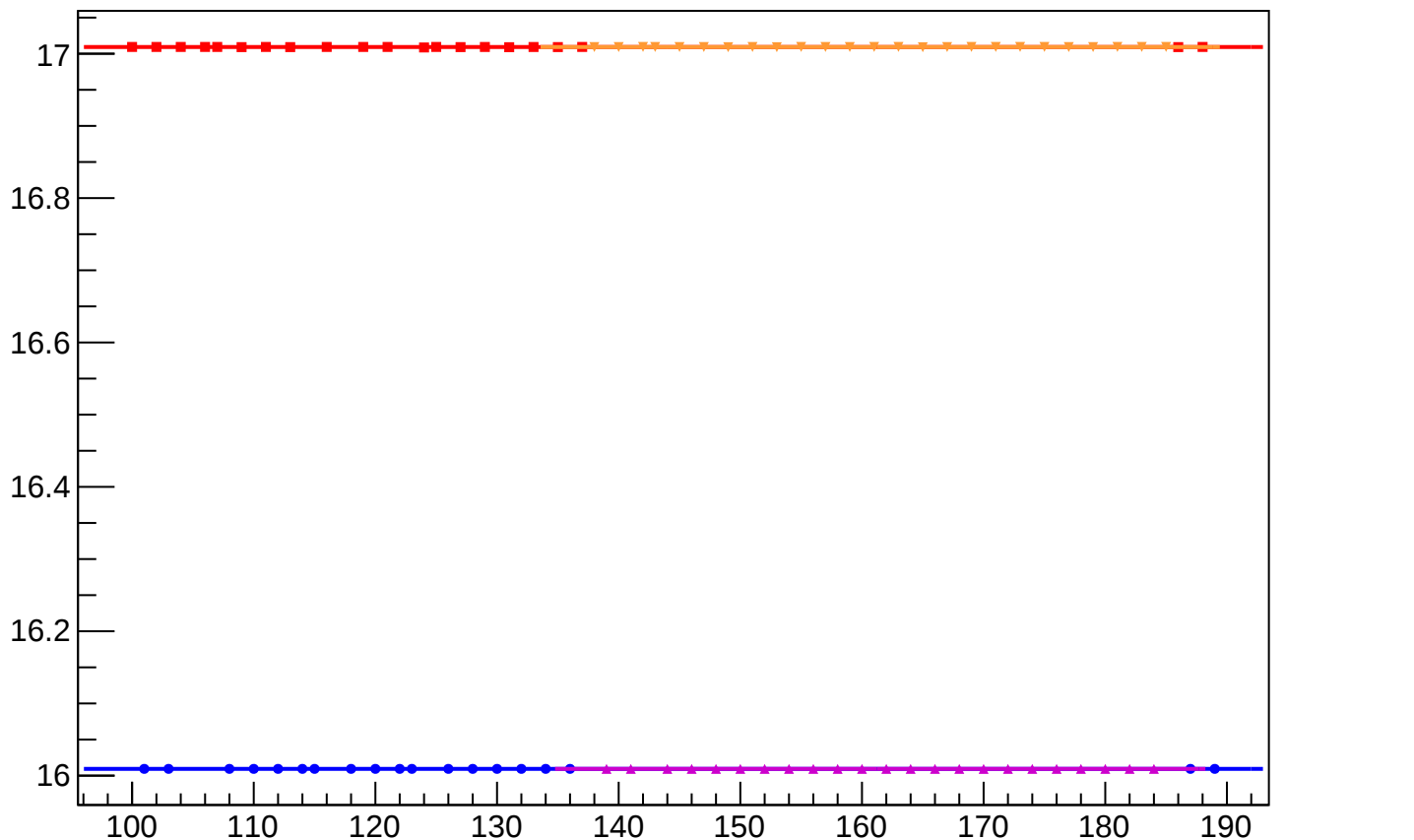
χ^2/NDF : 25770462419712320

Out: 88.672+/-0.000

χ^2/NDF : 27686461002503409

All: 88.663+/-0.000 χ^2/NDF : 5346138434163

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: 13762185708583990973169664.0/20

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

Left: 16.524 $\pm$ 0.000 χ^2 /NDF: 85855870772921272

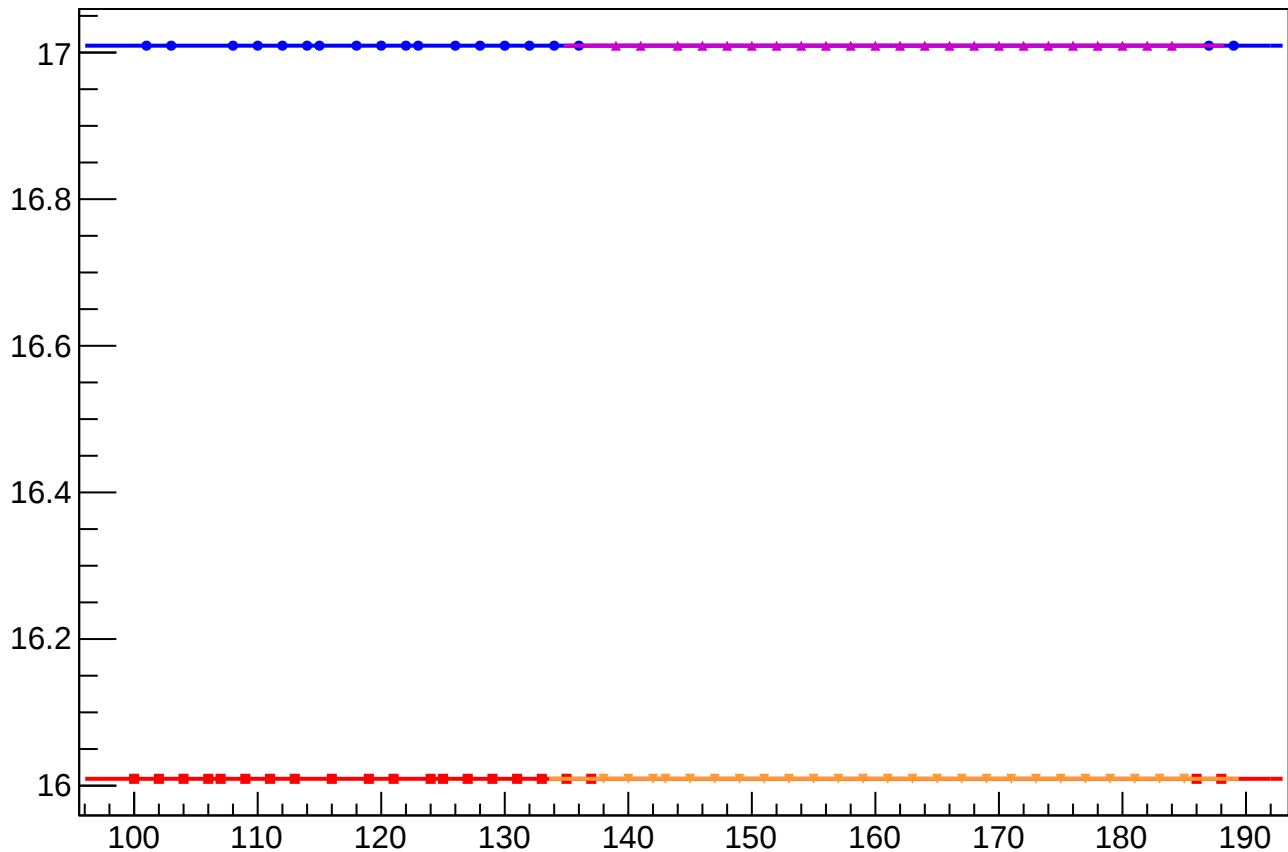
Right: 16.529 $\pm$ 0.000 χ^2 /NDF: 3771095094106698

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129696476503141735

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 40267075189364075

All: 16.526 $\pm$ 0.000 χ^2 /NDF: 1235691424954

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 120007.8/18

Left Out: 16.009+/-0.000 χ^2/NDF : 61253.5/24

Right Out: 16.009+/-0.000 χ^2/NDF : 210405.0/20

Left In: 17.009+/-0.000 χ^2/NDF : 114986101427233622065152.0/22

Left: 16.491+/-0.000 χ^2/NDF : 90683349233974458

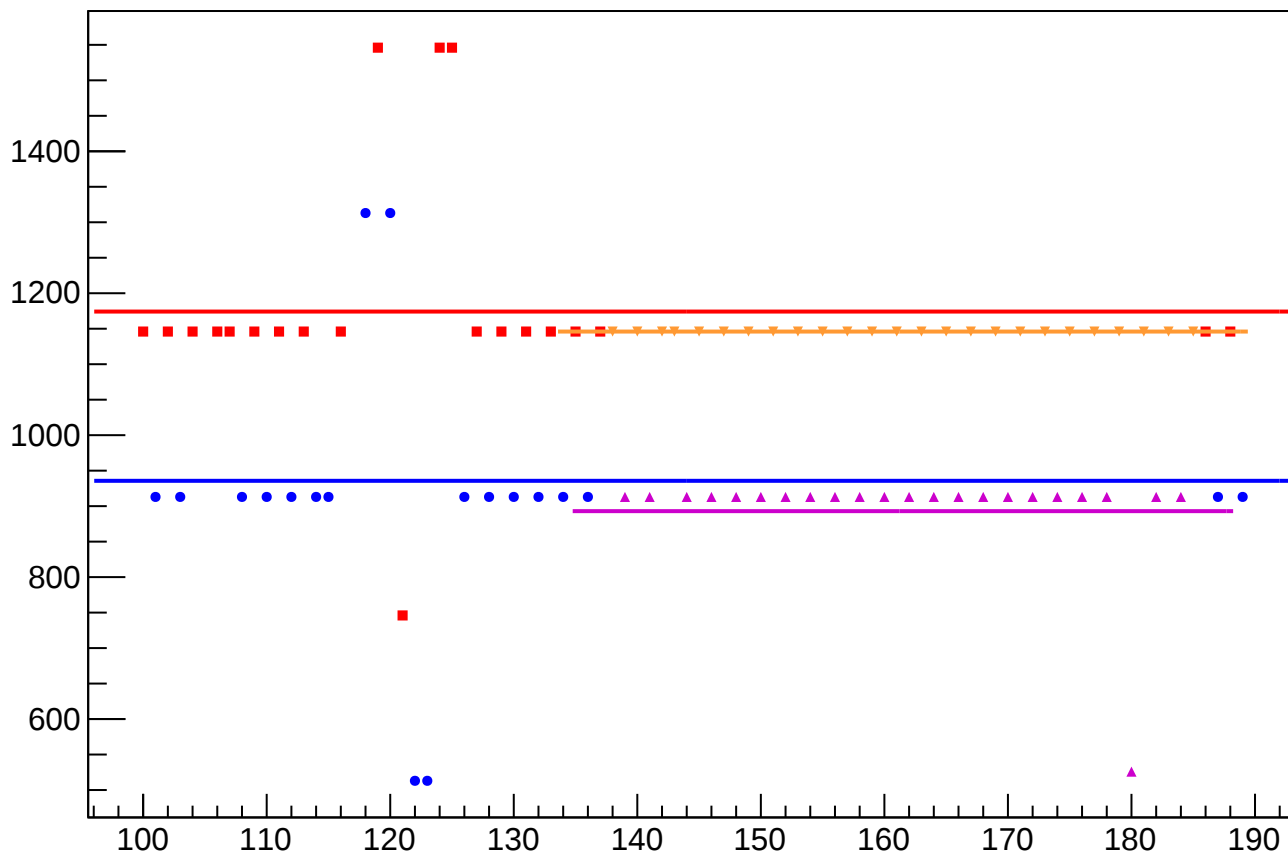
Right: 16.472+/-0.000 χ^2/NDF : 3904964990451801

In: 17.009+/-0.000 χ^2/NDF : 116620750457595861

Out: 16.009+/-0.000 χ^2/NDF : 354204.9/45

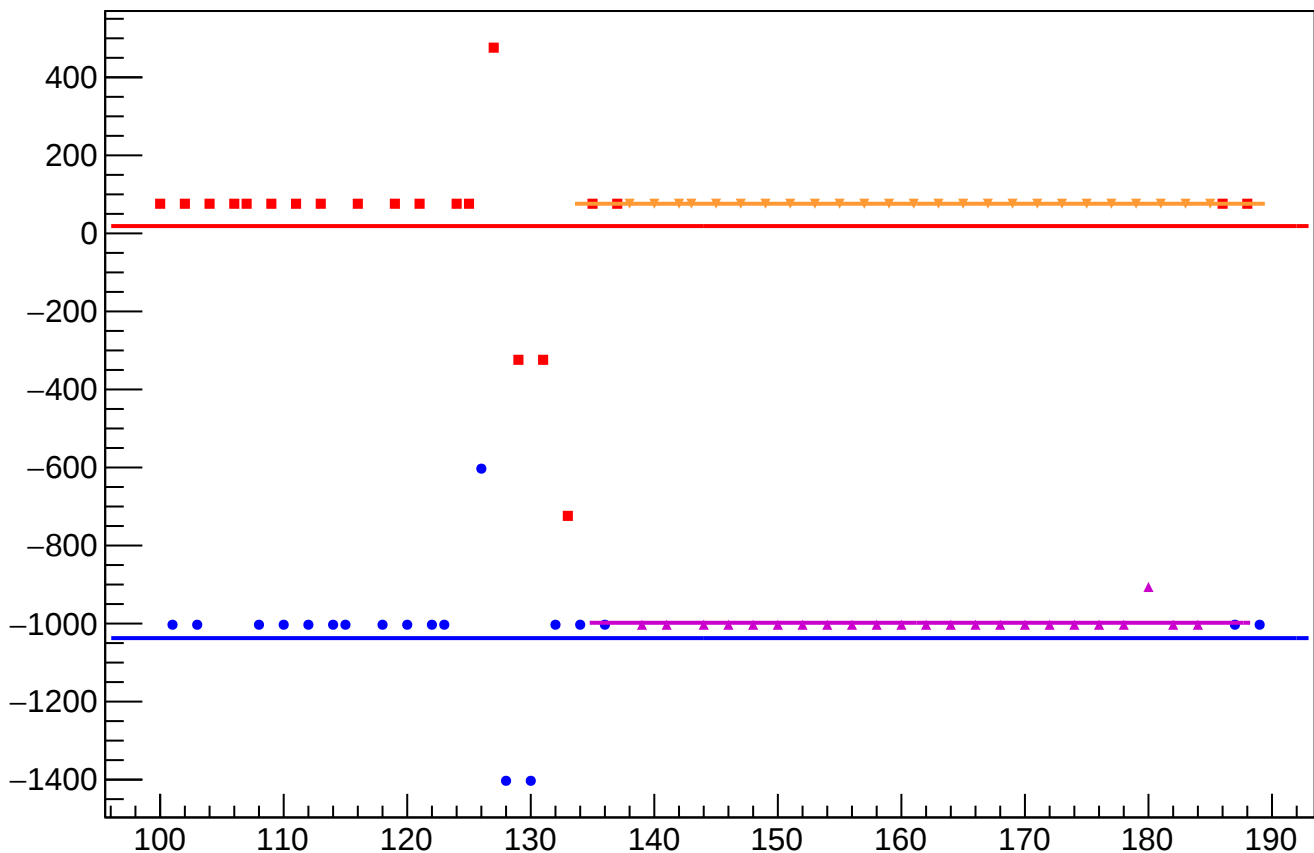
All: 16.485+/-0.000 χ^2/NDF : 1297767626968

epics RTPAPOSUCNTs_mean vs Slug, Sign Corrected



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: 1174.179+/-0.000 χ^2/NDF : 21404659768339688637010167953813929984.0/20
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1034.935+/-0.000 χ^2/NDF : 13920571629

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



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 Out: 18.733+/-0.000 χ^2/NDF : 44244589863079970366111271148461228032.0/20
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -455.258+/-0.000 χ^2/NDF : 15822603086