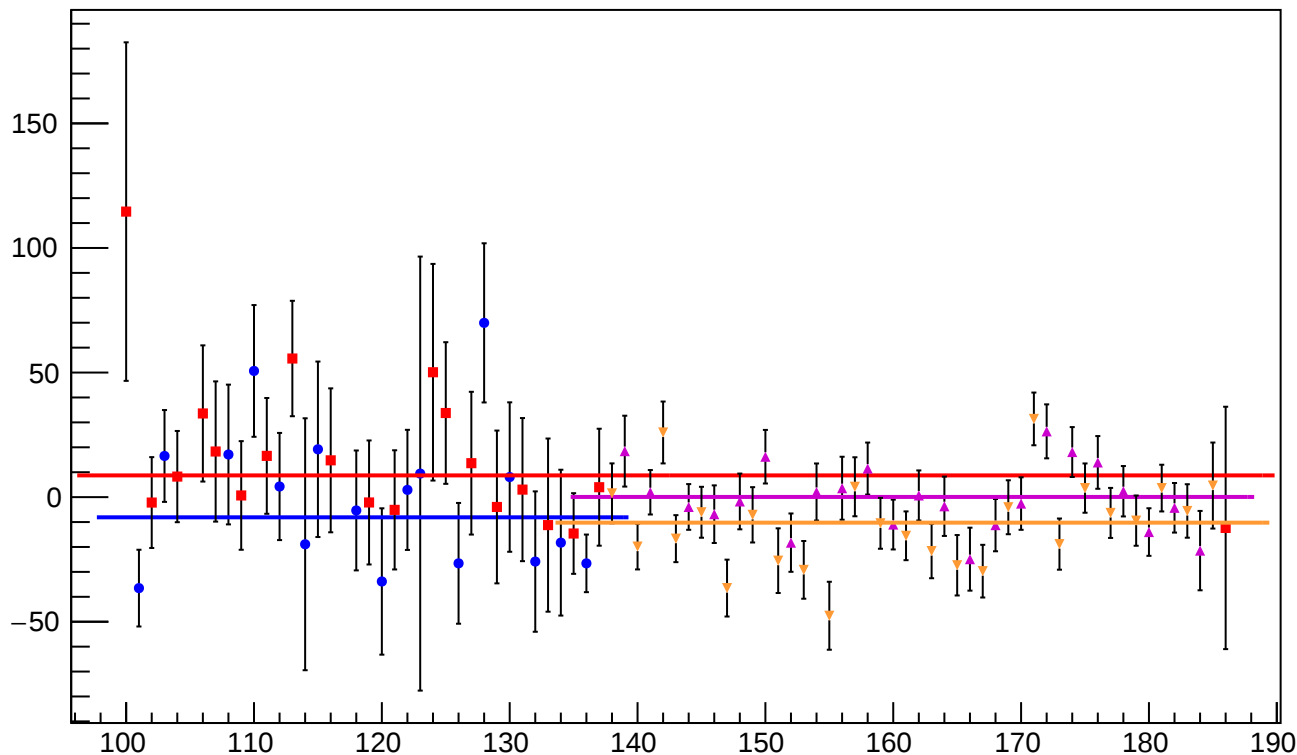


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.097 ± 5.619

$\chi^2/\text{NDF}: 22.9/16$

Left Out: -10.238 ± 2.170

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

Right Out: 8.727 ± 5.649

$\chi^2/\text{NDF}: 13.2/19$

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: 0.271 ± 3.984

$\chi^2/\text{NDF}: 40.5/36$

In: -1.050 ± 2.089

$\chi^2/\text{NDF}: 54.6/39$

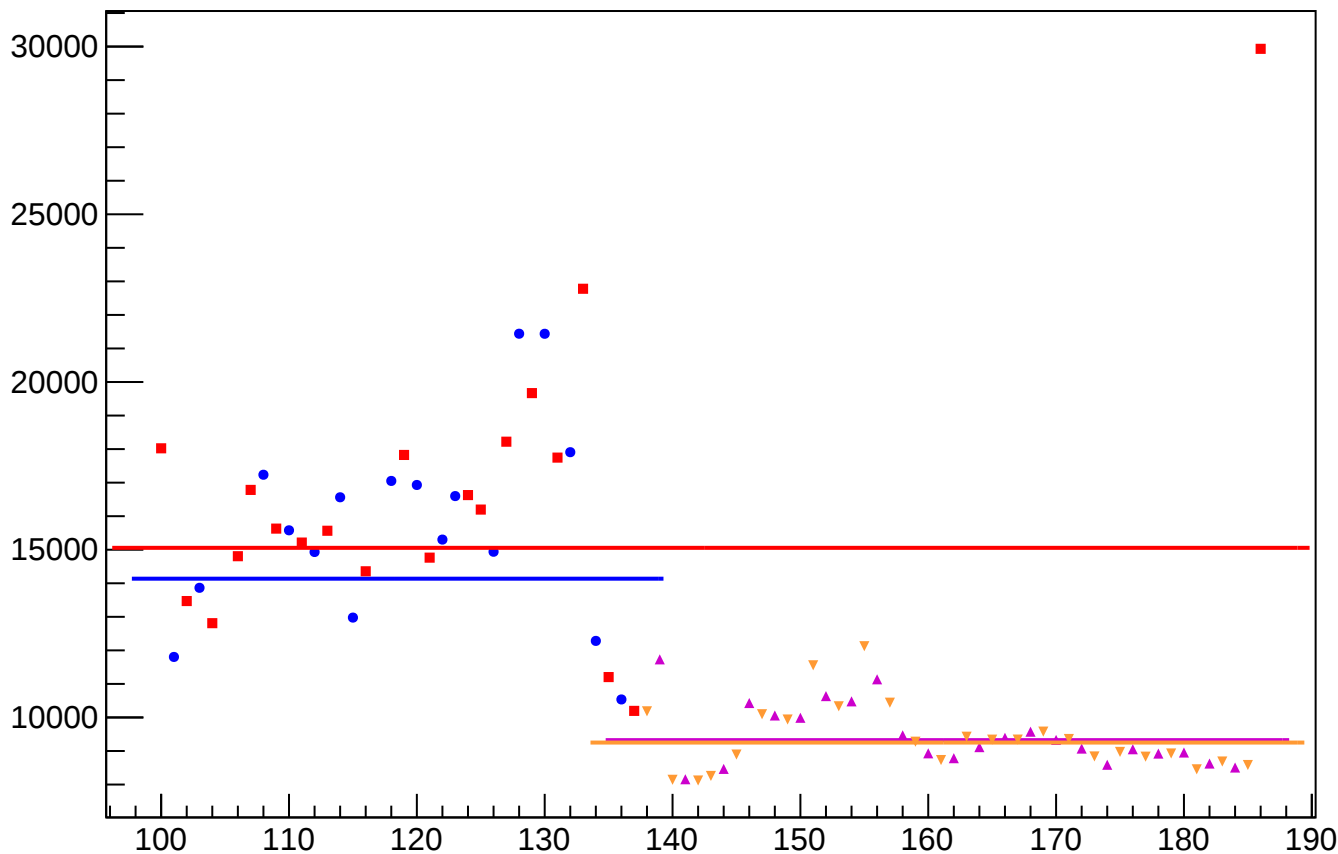
Out: -7.799 ± 2.026

$\chi^2/\text{NDF}: 81.2/44$

All: -4.528 ± 1.454

$\chi^2/\text{NDF}: 141.1/84$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14137.038 $\pm$ 3.974 χ^2 /NDF: 603041.9/16

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

Right Out: 15056.763 $\pm$ 3.994 χ^2 /NDF: 663489.3/19

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

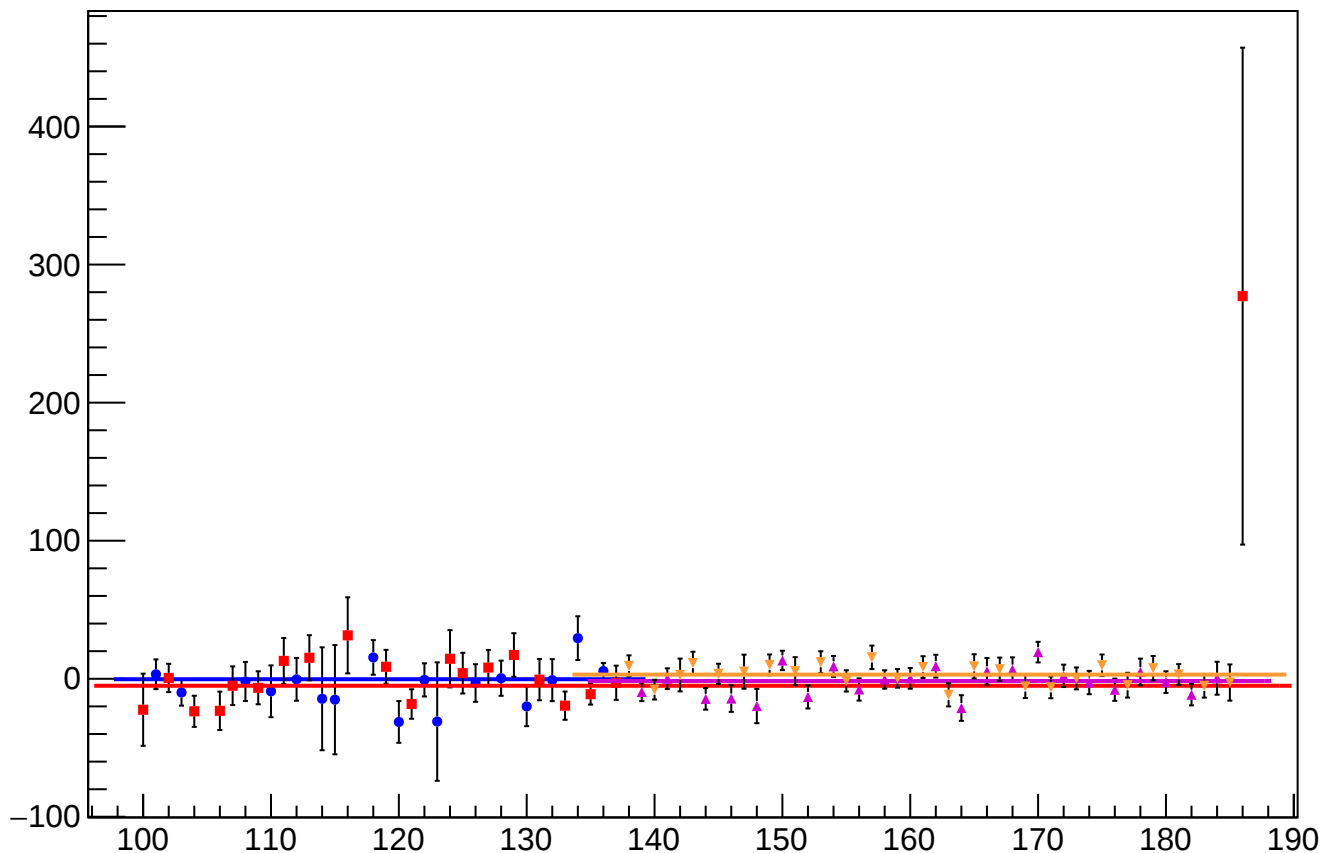
Right: 14594.506 $\pm$ 2.817 χ^2 /NDF: 1293178.7/36

In: 9989.252 $\pm$ 1.477 χ^2 /NDF:2143128.9/39

Out: 9998.441 $\pm$ 1.433 χ^2 /NDF:2836247.1/44

All: 9993.988 $\pm$ 1.028 χ^2 /NDF: 4979395.9/84

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.315 ± 3.077 χ^2/NDF : 14.4/16

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

Right Out: -5.052 ± 2.942 χ^2/NDF : 22.0/19

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

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

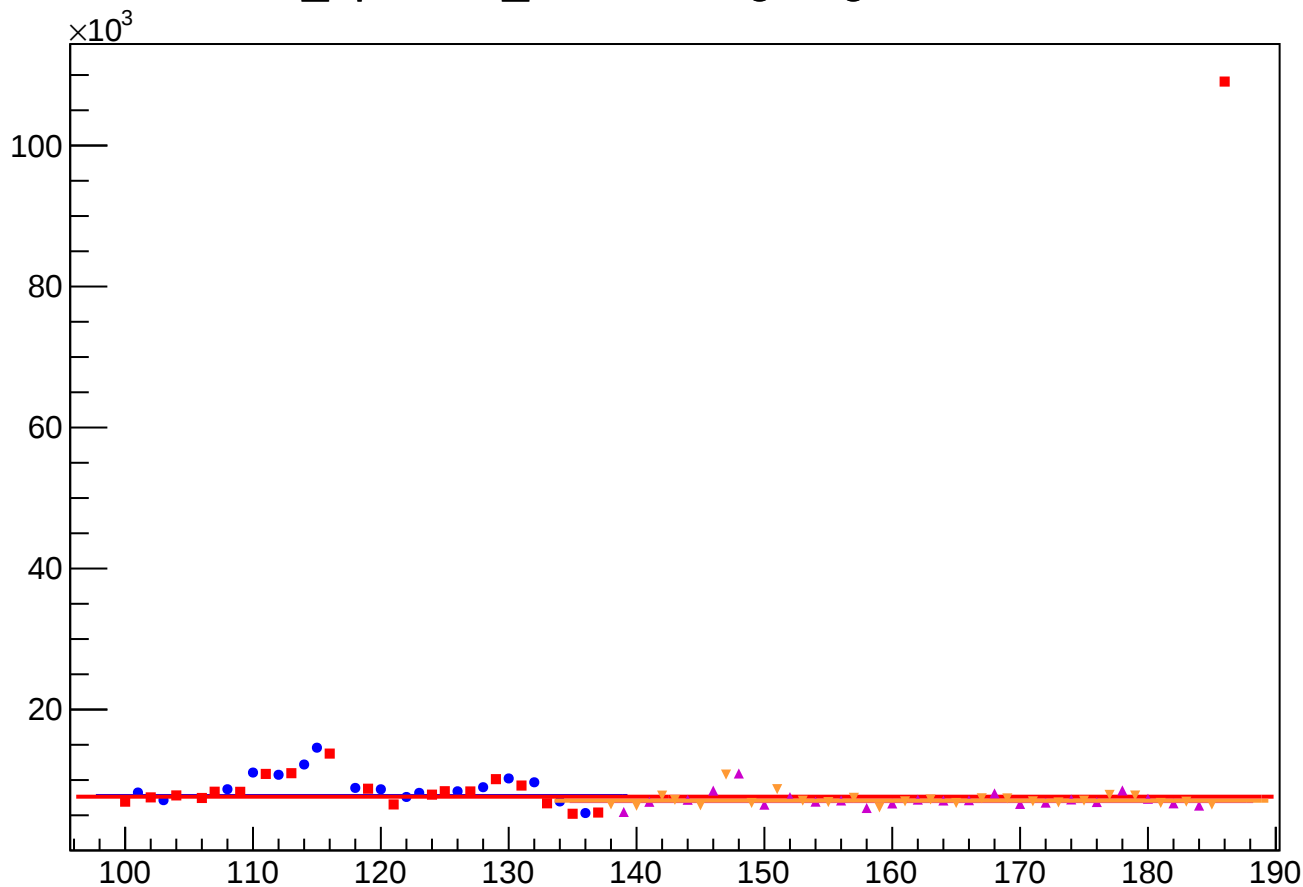
Right: -2.789 ± 2.126 χ^2/NDF : 37.7/36

In: -1.290 ± 1.490 χ^2/NDF : 50.1/39

Out: 1.075 ± 1.446 χ^2/NDF : 46.3/44

All: -0.072 ± 1.038 χ^2/NDF : 97.7/84

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.934 $\pm$ 2.176 χ^2/NDF : 740969.1/16

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

Right Out: 7638.501 $\pm$ 2.080 χ^2/NDF : 1318822.6/19

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

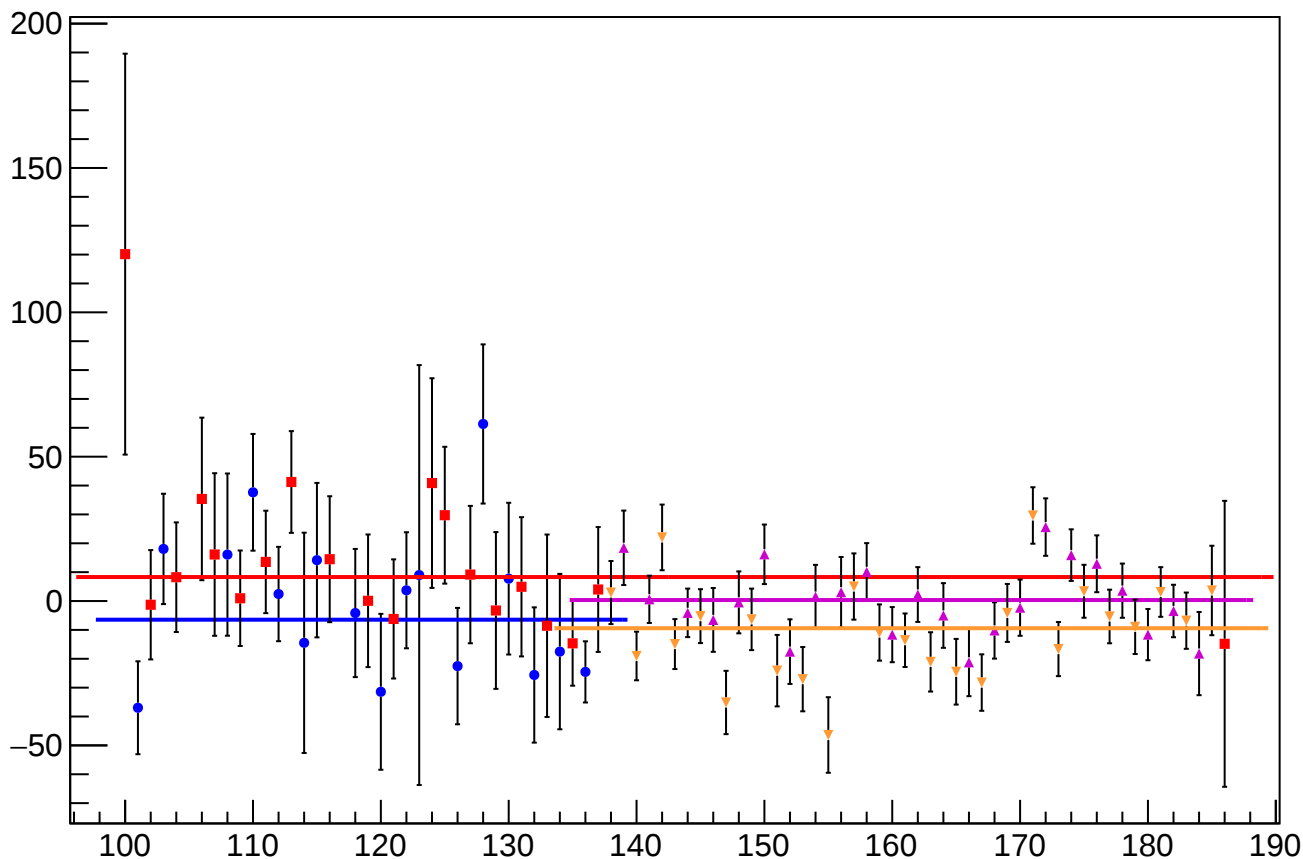
Right: 7686.463 $\pm$ 1.503 χ^2/NDF : 2060905.0/36

In: 7184.379 $\pm$ 1.053 χ^2/NDF : 1351147.1/39

Out: 7203.177 $\pm$ 1.023 χ^2/NDF : 1763393.3/44

All: 7194.058 $\pm$ 0.734 χ^2/NDF : 3114704.4/84

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.463 ± 5.029 $\chi^2/\text{NDF}: 23.5/16$

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

Right Out: 8.311 ± 4.983 $\chi^2/\text{NDF}: 13.1/19$

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

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

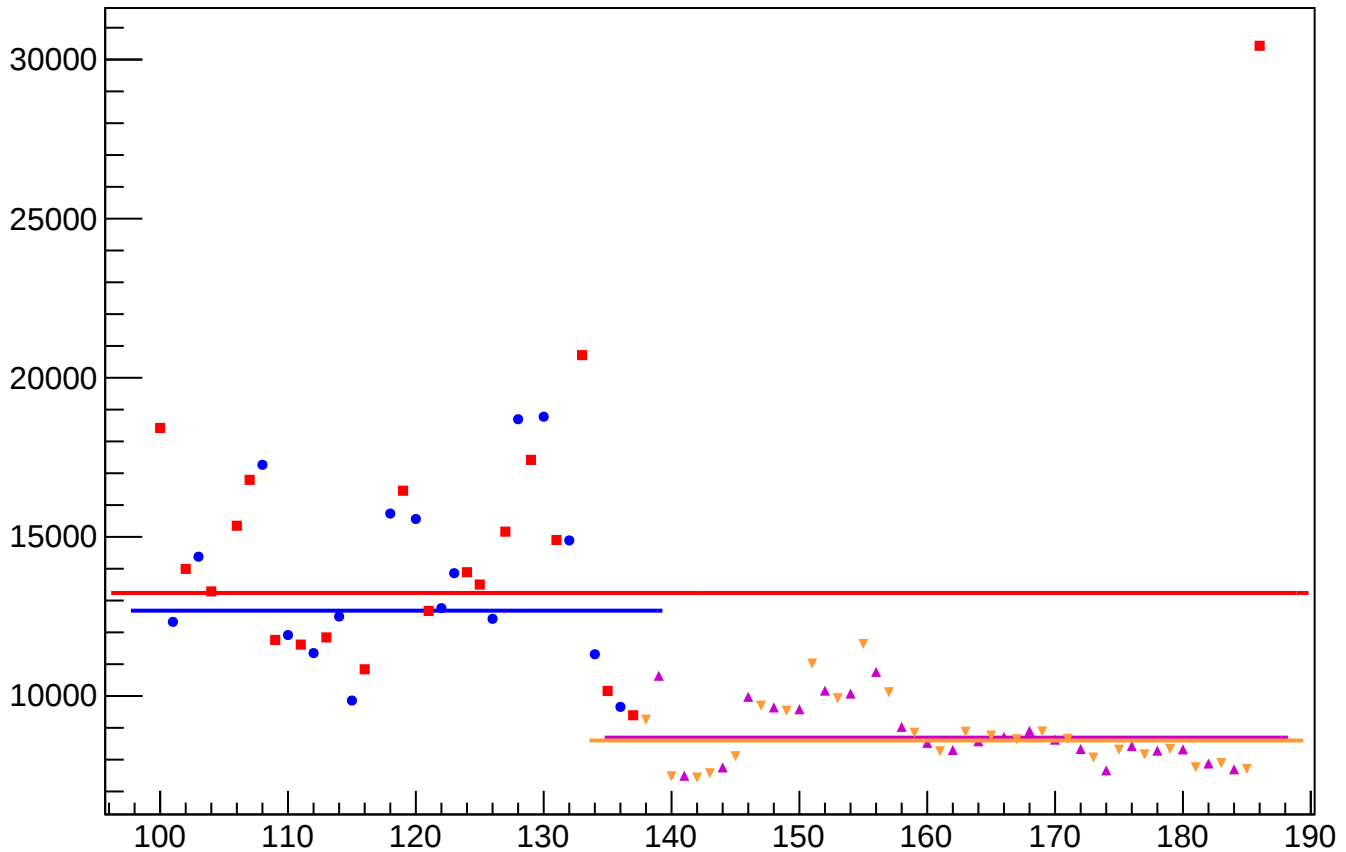
Right: 0.991 ± 3.540 $\chi^2/\text{NDF}: 41.0/36$

In: -0.667 ± 1.938 $\chi^2/\text{NDF}: 55.0/39$

Out: -6.908 ± 1.873 $\chi^2/\text{NDF}: 82.8/44$

All: -3.895 ± 1.347 $\chi^2/\text{NDF}: 143.1/84$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12681.868 $\pm$ 3.556 χ^2 /NDF: 558641.1/16

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

Right Out: 13238.554 $\pm$ 3.524 χ^2 /NDF: 742770.6/19

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

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

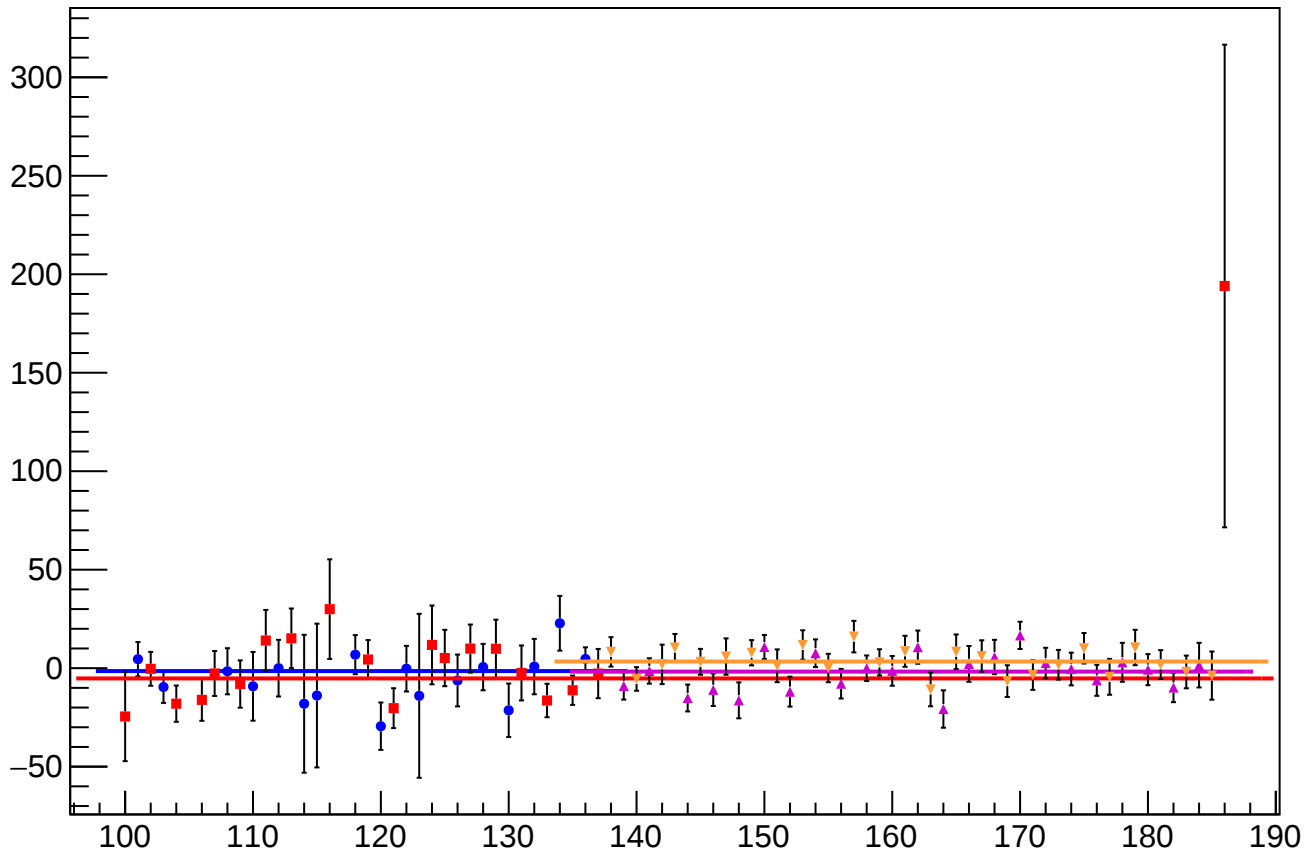
Right: 12962.725 $\pm$ 2.503 χ^2 /NDF: 1313778.1/36

In: 9284.076 $\pm$ 1.371 χ^2 /NDF:1996385.7/39

Out: 9257.068 $\pm$ 1.324 χ^2 /NDF:2668247.2/44

All: 9270.109 $\pm$ 0.952 χ^2 /NDF: 4664833.7/84

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.477 ± 2.795 $\chi^2/\text{NDF}: 14.7/16$

Left Out: 3.374 ± 1.552 $\chi^2/\text{NDF}: 17.2/24$

Right Out: -5.214 ± 2.644 $\chi^2/\text{NDF}: 21.5/19$

Left In: -1.756 ± 1.607 $\chi^2/\text{NDF}: 33.5/22$

Left: 0.899 ± 1.116 $\chi^2/\text{NDF}: 56.0/47$

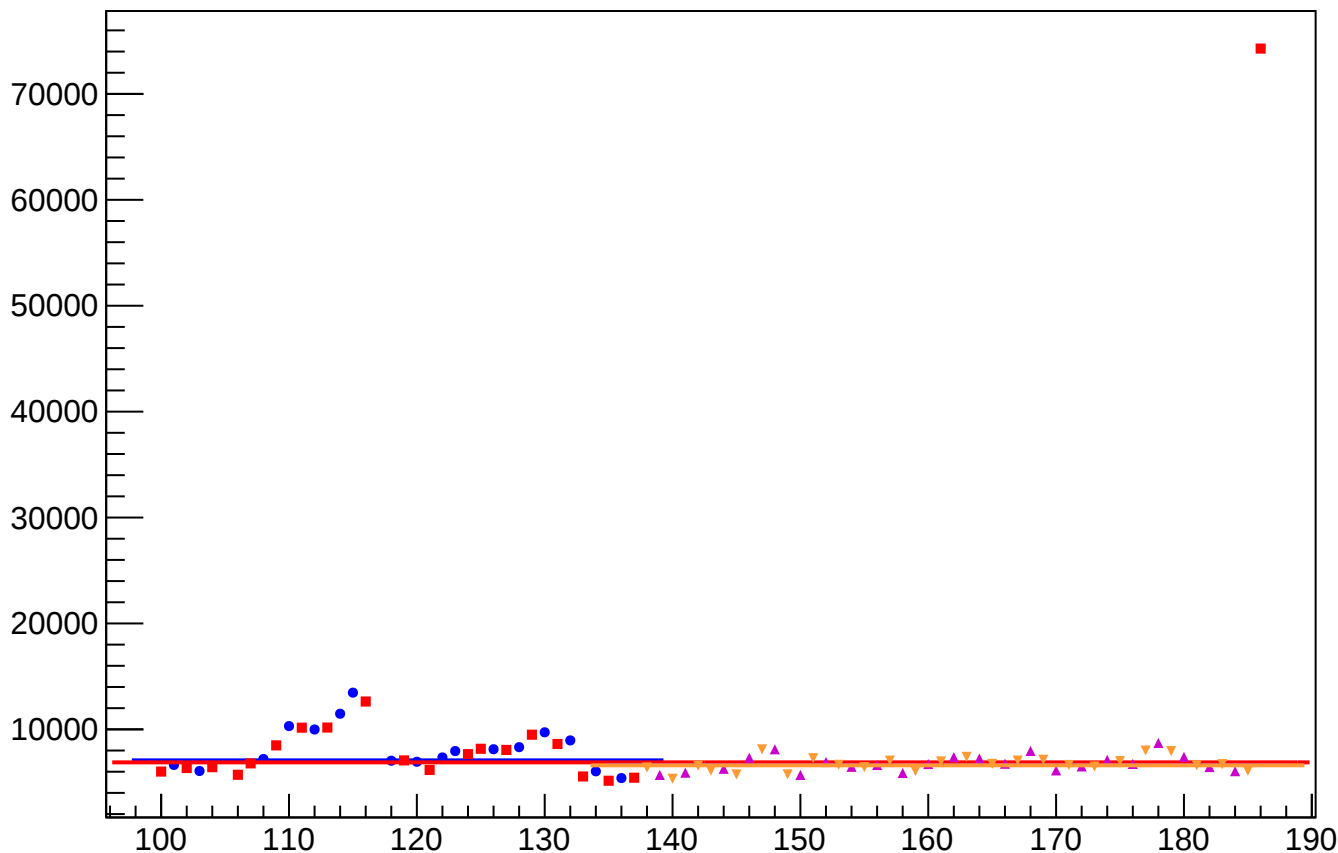
Right: -3.449 ± 1.921 $\chi^2/\text{NDF}: 37.2/36$

In: -1.687 ± 1.393 $\chi^2/\text{NDF}: 48.3/39$

Out: 1.174 ± 1.338 $\chi^2/\text{NDF}: 46.6/44$

All: -0.199 ± 0.965 $\chi^2/\text{NDF}: 97.0/84$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7070.220+/-1.977 χ^2/NDF : 600878.1/16

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

Right Out: 6882.992+/-1.870 χ^2/NDF : 1294031.7/19

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

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

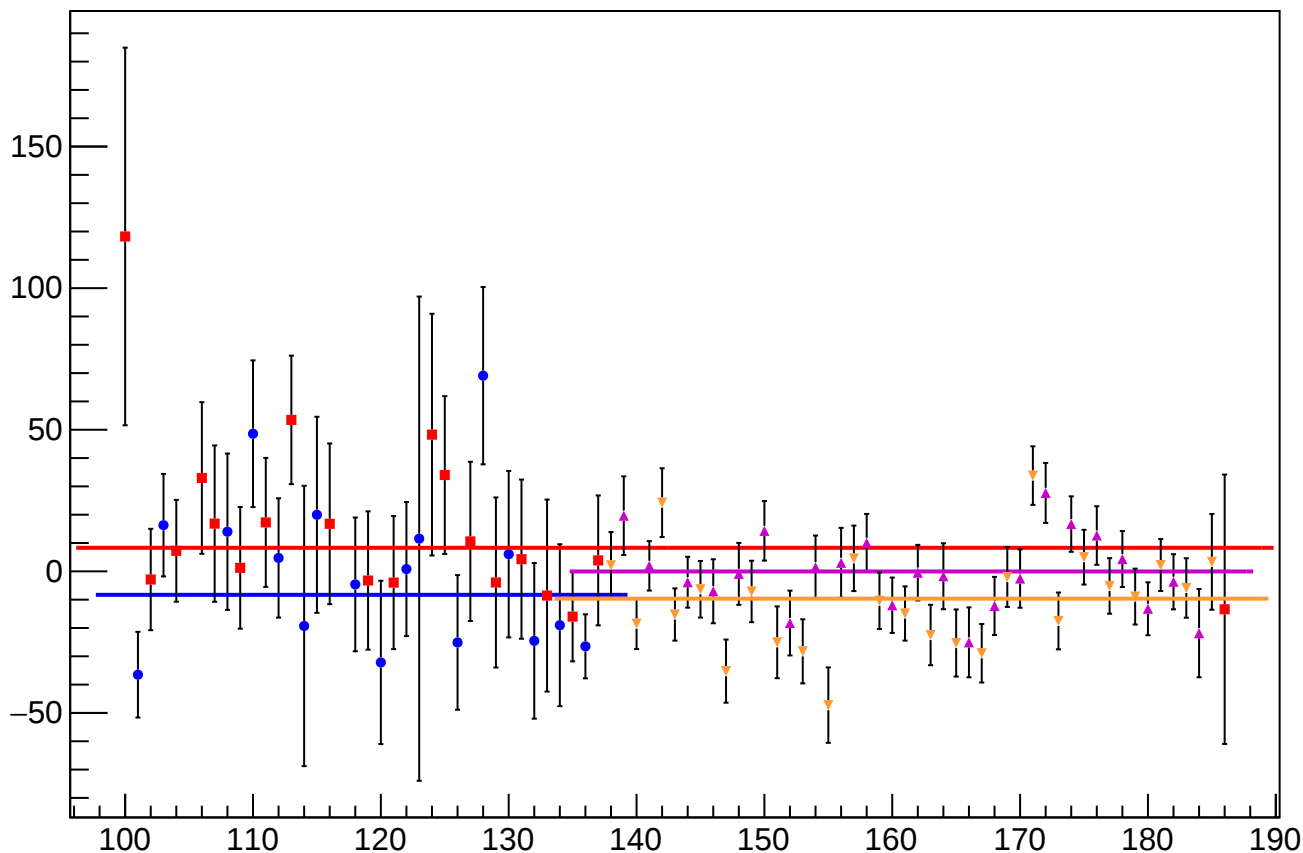
Right: 6971.405+/-1.358 χ^2/NDF : 1899645.7/36

In: 6744.736+/-0.985 χ^2/NDF : 1052507.4/39

Out: 6675.448+/-0.946 χ^2/NDF : 1705848.1/44

All: 6708.701+/-0.682 χ^2/NDF : 2760928.2/84

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.291 ± 5.508 $\chi^2/\text{NDF}: 22.7/16$

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

Right Out: 8.316 ± 5.538 $\chi^2/\text{NDF}: 13.6/19$

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

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

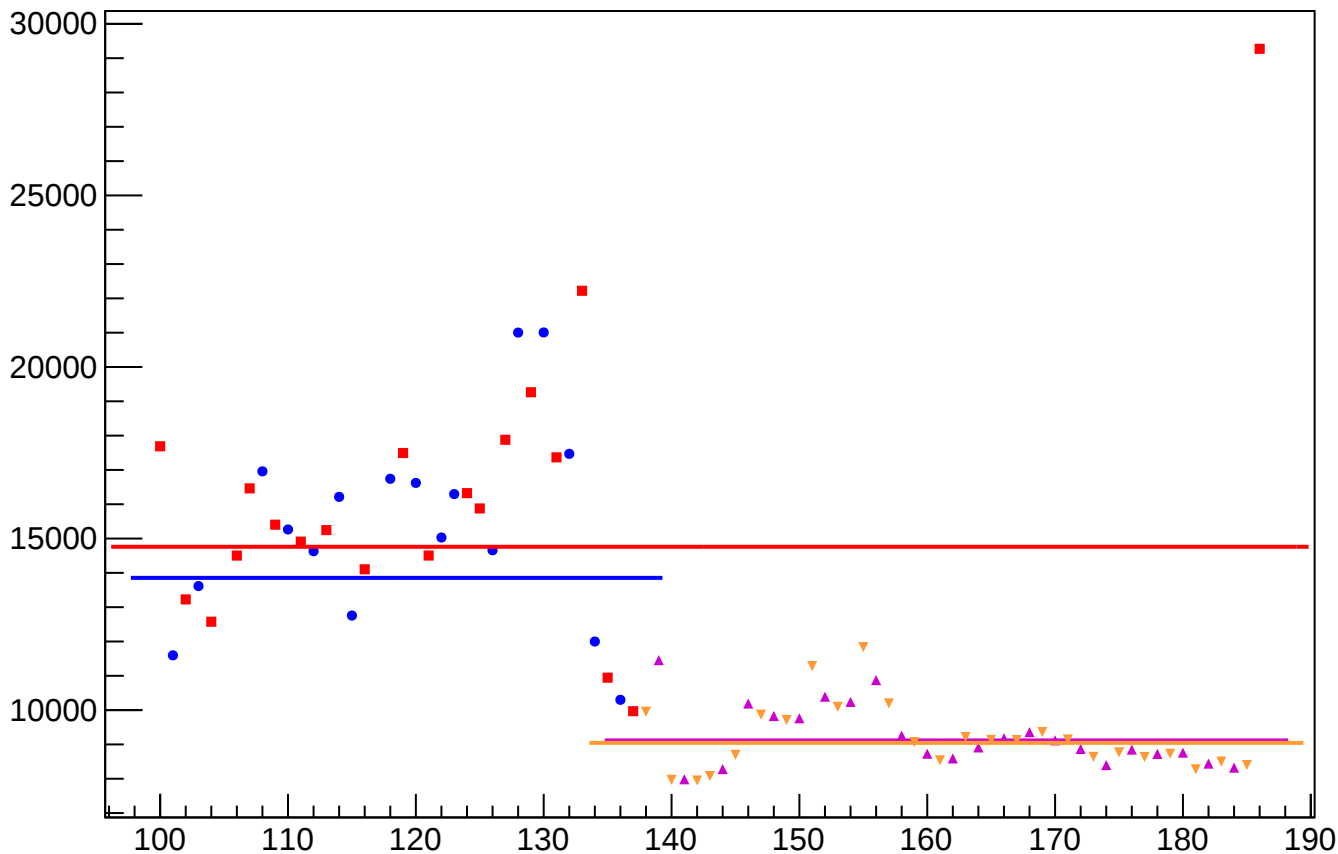
Right: -0.032 ± 3.905 $\chi^2/\text{NDF}: 40.9/36$

In: -1.177 ± 2.043 $\chi^2/\text{NDF}: 55.4/39$

Out: -7.341 ± 1.981 $\chi^2/\text{NDF}: 82.7/44$

All: -4.354 ± 1.422 $\chi^2/\text{NDF}: 142.8/84$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.498 $\pm$ 3.895 χ^2 /NDF: 606202.8/16

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

Right Out: 14760.410 $\pm$ 3.916 χ^2 /NDF: 664468.3/19

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

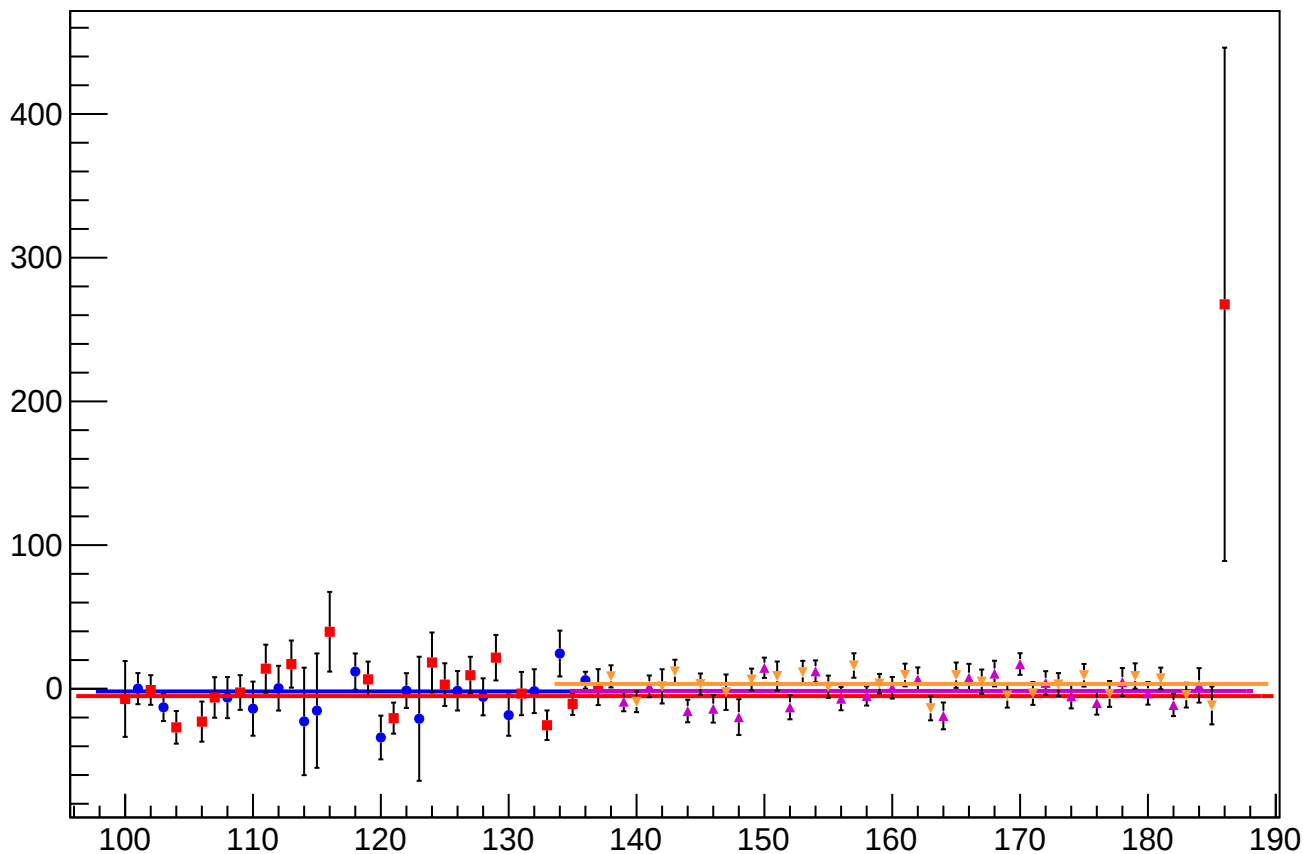
Right: 14305.002 $\pm$ 2.761 χ^2 /NDF: 1297576.6/36

In: 9767.883 $\pm$ 1.445 χ^2 /NDF:2155341.8/39

Out: 9777.354 $\pm$ 1.401 χ^2 /NDF:2850061.0/44

All: 9772.764 $\pm$ 1.006 χ^2 /NDF: 5005424.9/84

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.828+/-3.100 χ^2/NDF : 14.0/16

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

Right Out: -5.080+/-2.964 χ^2/NDF : 26.8/19

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

Left: 1.015+/-1.194 χ^2/NDF : 60.3/47

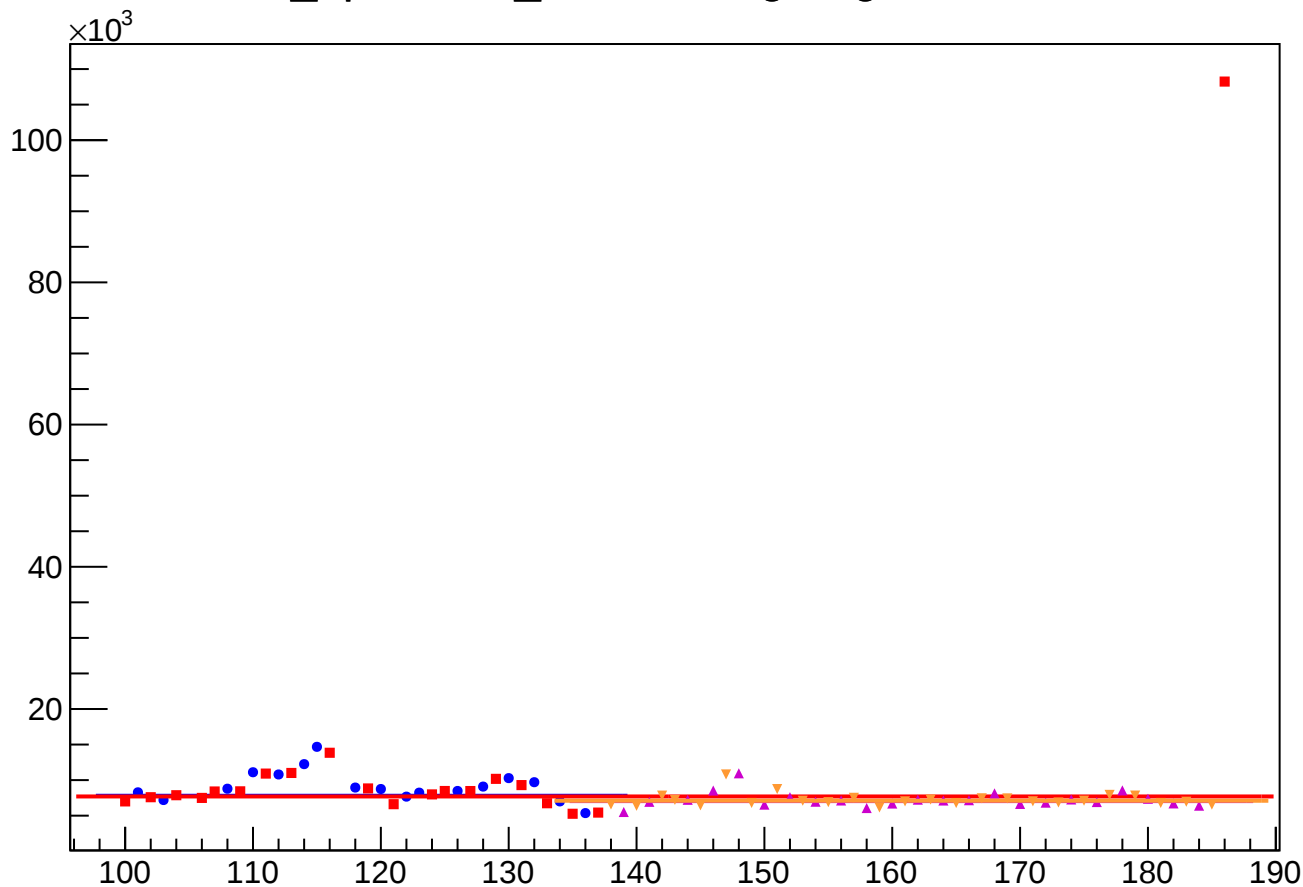
Right: -3.527+/-2.142 χ^2/NDF : 41.5/36

In: -1.561+/-1.497 χ^2/NDF : 50.8/39

Out: 1.351+/-1.454 χ^2/NDF : 52.4/44

All: -0.062+/-1.043 χ^2/NDF : 105.2/84

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7797.989 $\pm$ 2.192 χ^2/NDF : 736318.7/16

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

Right Out: 7700.137 $\pm$ 2.096 χ^2/NDF : 1310729.9/19

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

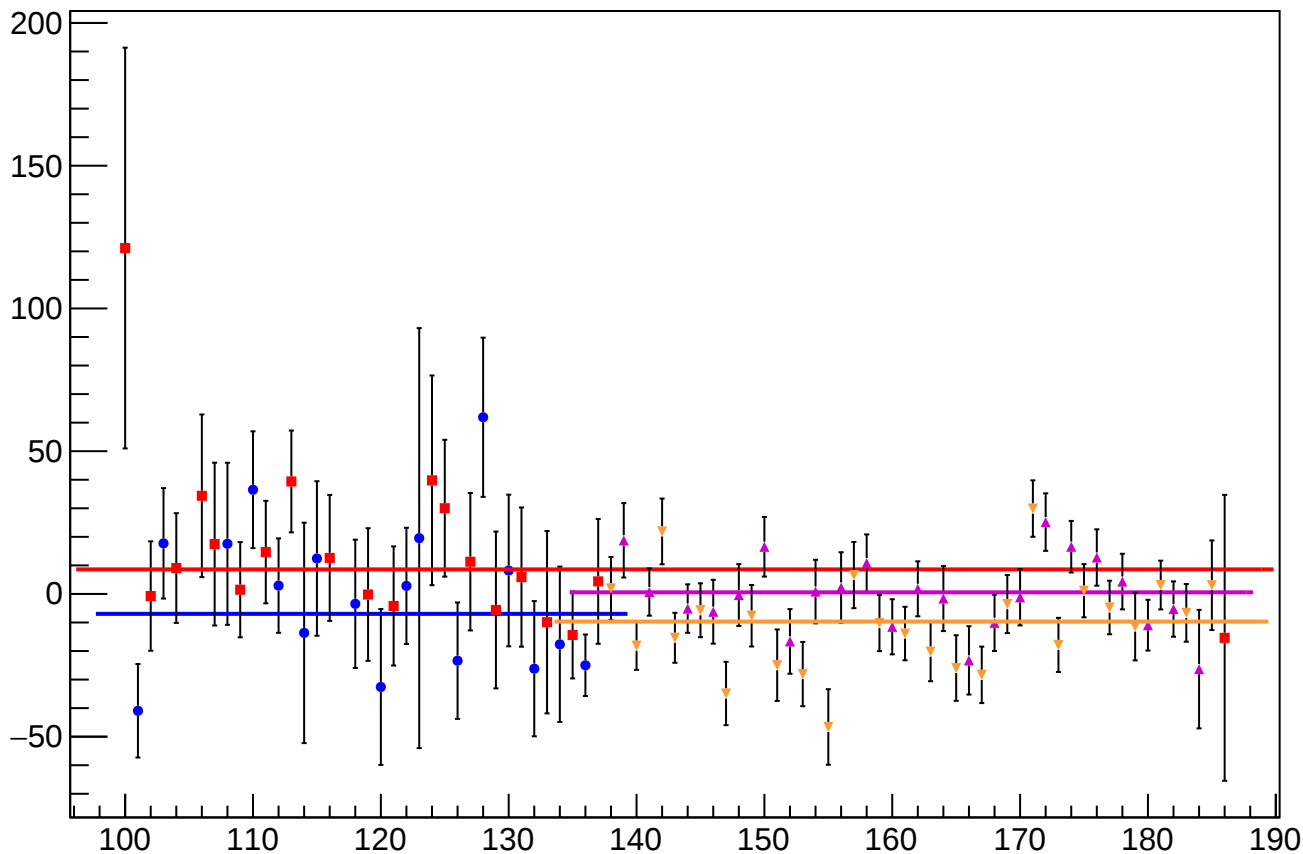
Right: 7746.882 $\pm$ 1.515 χ^2/NDF : 2048089.6/36

In: 7222.474 $\pm$ 1.059 χ^2/NDF : 1343691.5/39

Out: 7241.525 $\pm$ 1.028 χ^2/NDF : 1755694.5/44

All: 7232.282 $\pm$ 0.738 χ^2/NDF : 3099552.7/84

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.975 $\pm$ 5.096 χ^2/NDF : 24.0/16

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

Right Out: 8.602 $\pm$ 5.054 χ^2/NDF : 12.3/19

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

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

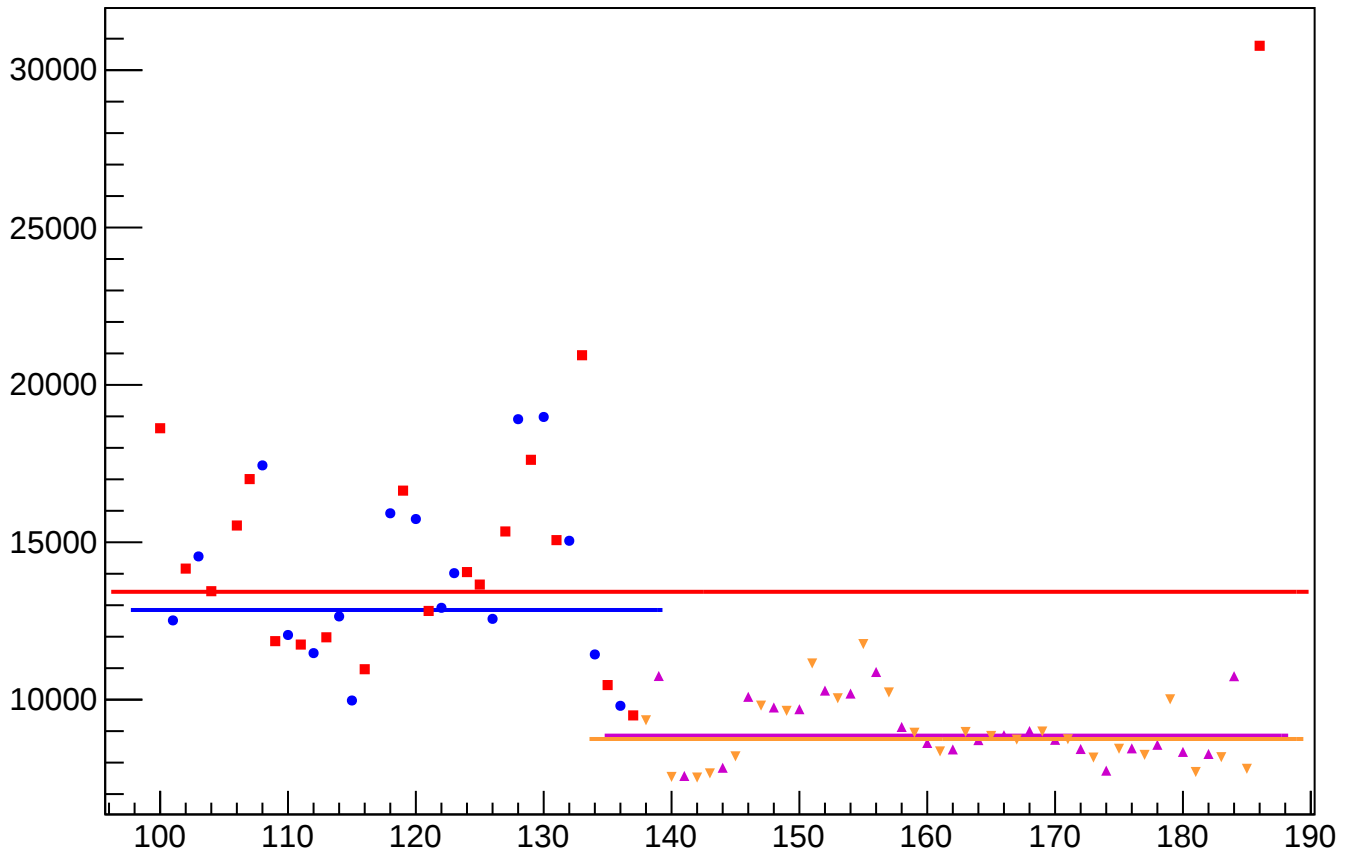
Right: 0.877 $\pm$ 3.589 χ^2/NDF : 41.0/36

In: -0.570 $\pm$ 1.976 χ^2/NDF : 55.7/39

Out: -7.066 $\pm$ 1.908 χ^2/NDF : 81.4/44

All: -3.931 $\pm$ 1.373 χ^2/NDF : 142.6/84

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12848.710 $\pm$ 3.603 χ^2 /NDF: 552210.2/16

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

Right Out: 13426.617 $\pm$ 3.574 χ^2 /NDF: 729665.5/19

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

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

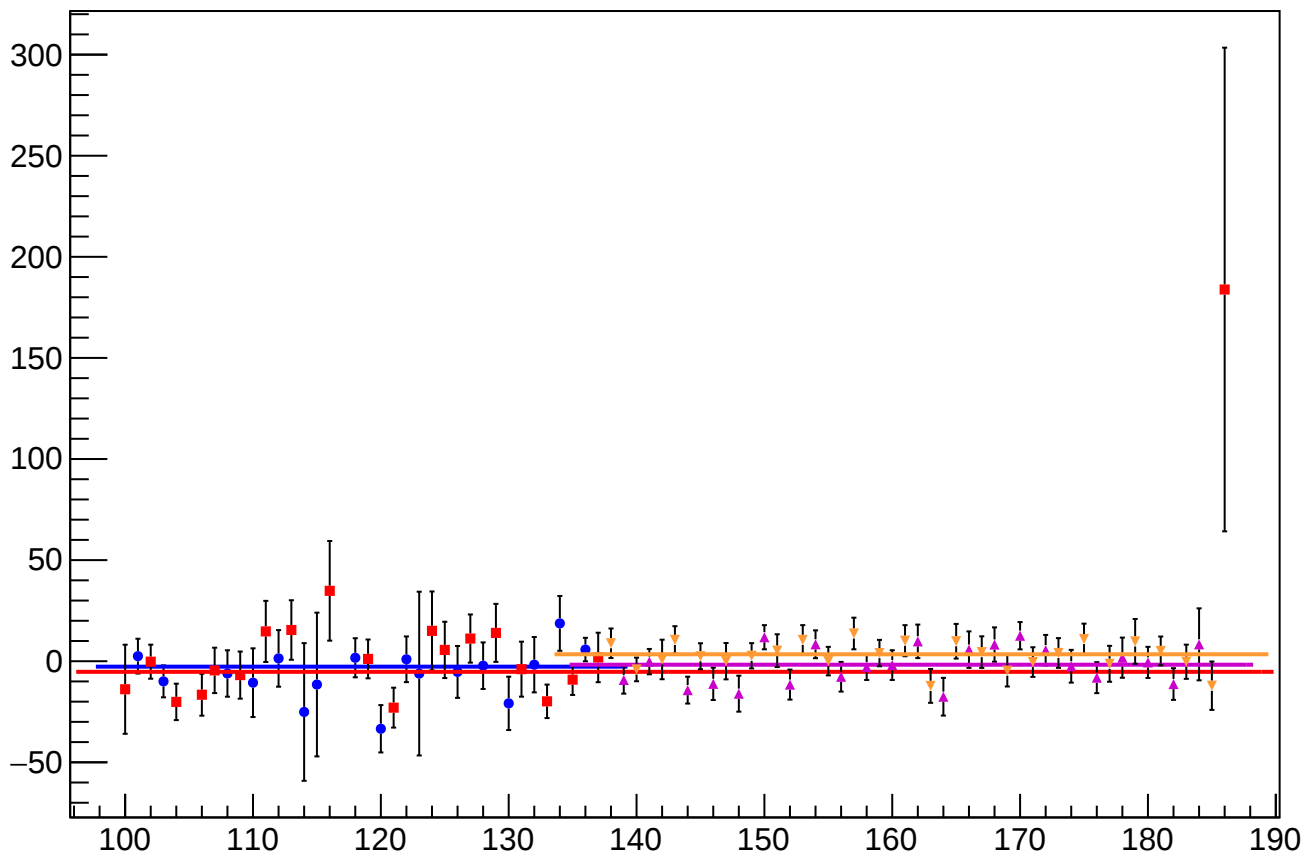
Right: 13140.049 $\pm$ 2.537 χ^2 /NDF: 1294842.4/36

In: 9457.427 $\pm$ 1.397 χ^2 /NDF:1956449.0/39

Out: 9416.953 $\pm$ 1.349 χ^2 /NDF:2661608.2/44

All: 9436.483 $\pm$ 0.971 χ^2 /NDF: 4618491.4/84

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.694 ± 2.736 χ^2/NDF : 15.9/16

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

Right Out: -5.250 ± 2.592 χ^2/NDF : 26.1/19

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

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

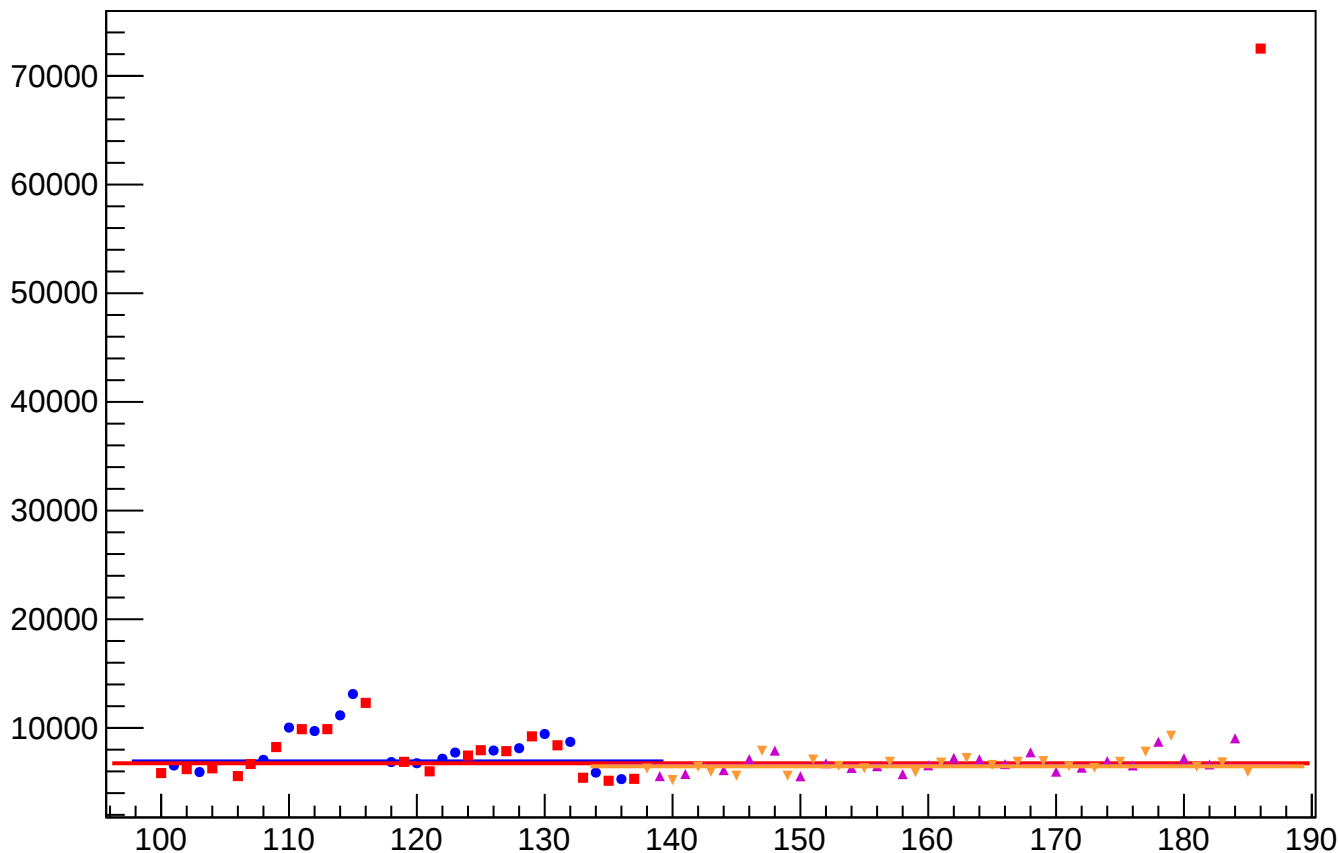
Right: -4.041 ± 1.882 χ^2/NDF : 42.4/36

In: -1.976 ± 1.372 χ^2/NDF : 49.5/39

Out: 1.198 ± 1.315 χ^2/NDF : 50.6/44

All: -0.321 ± 0.949 χ^2/NDF : 103.0/84

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6917.700+/-1.935 χ^2/NDF : 587164.4/16

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

Right Out: 6745.982+/-1.833 χ^2/NDF : 1265007.3/19

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

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

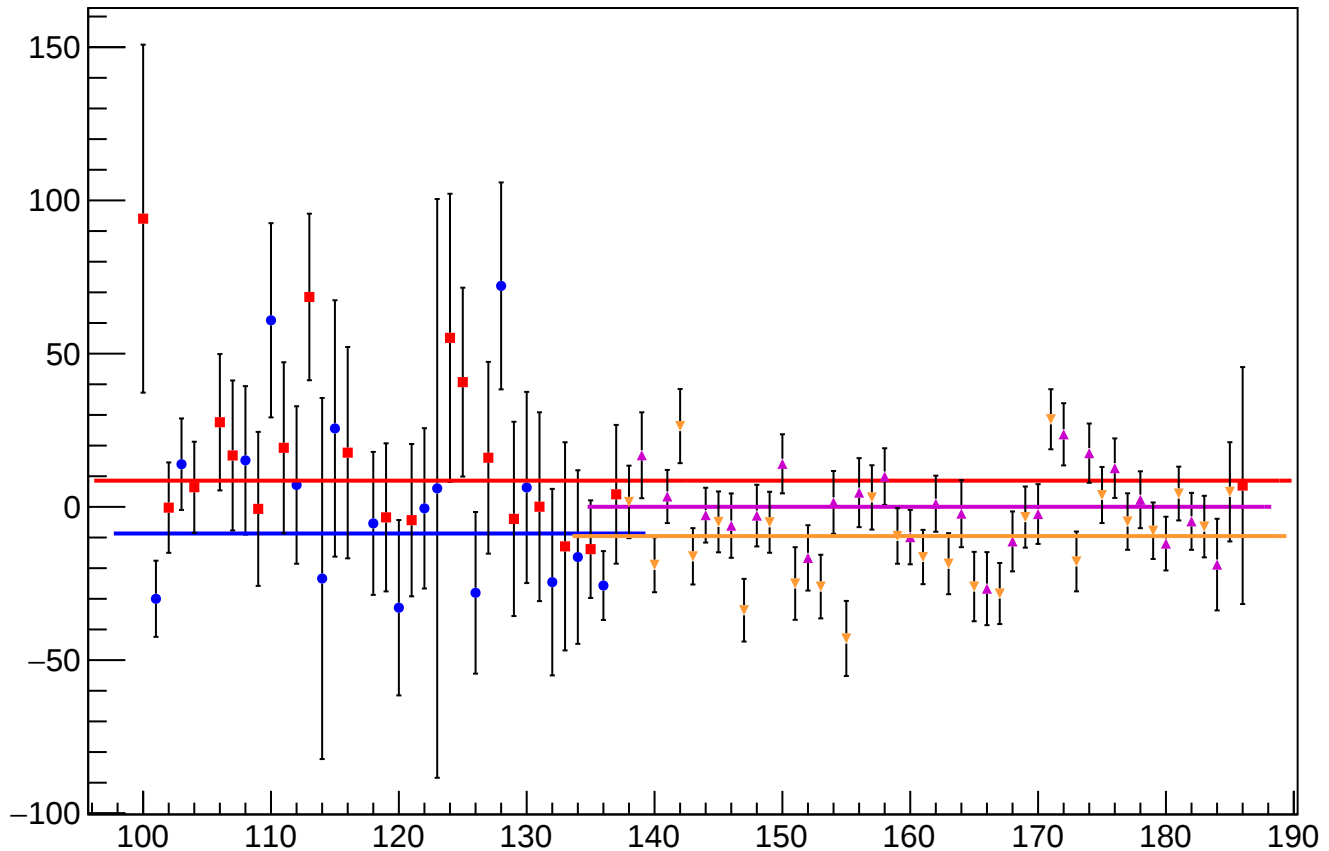
Right: 6827.181+/-1.331 χ^2/NDF : 1856323.3/36

In: 6628.189+/-0.970 χ^2/NDF : 1081739.3/39

Out: 6540.186+/-0.930 χ^2/NDF : 1769175.0/44

All: 6582.311+/-0.671 χ^2/NDF : 2855203.4/84

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.685±5.401 χ^2 /NDF: 22.1/16

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

Right Out: 8.553±5.461 χ^2 /NDF: 14.0/19

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

Left: -4.902±1.447 χ^2 /NDF: 100.3/47

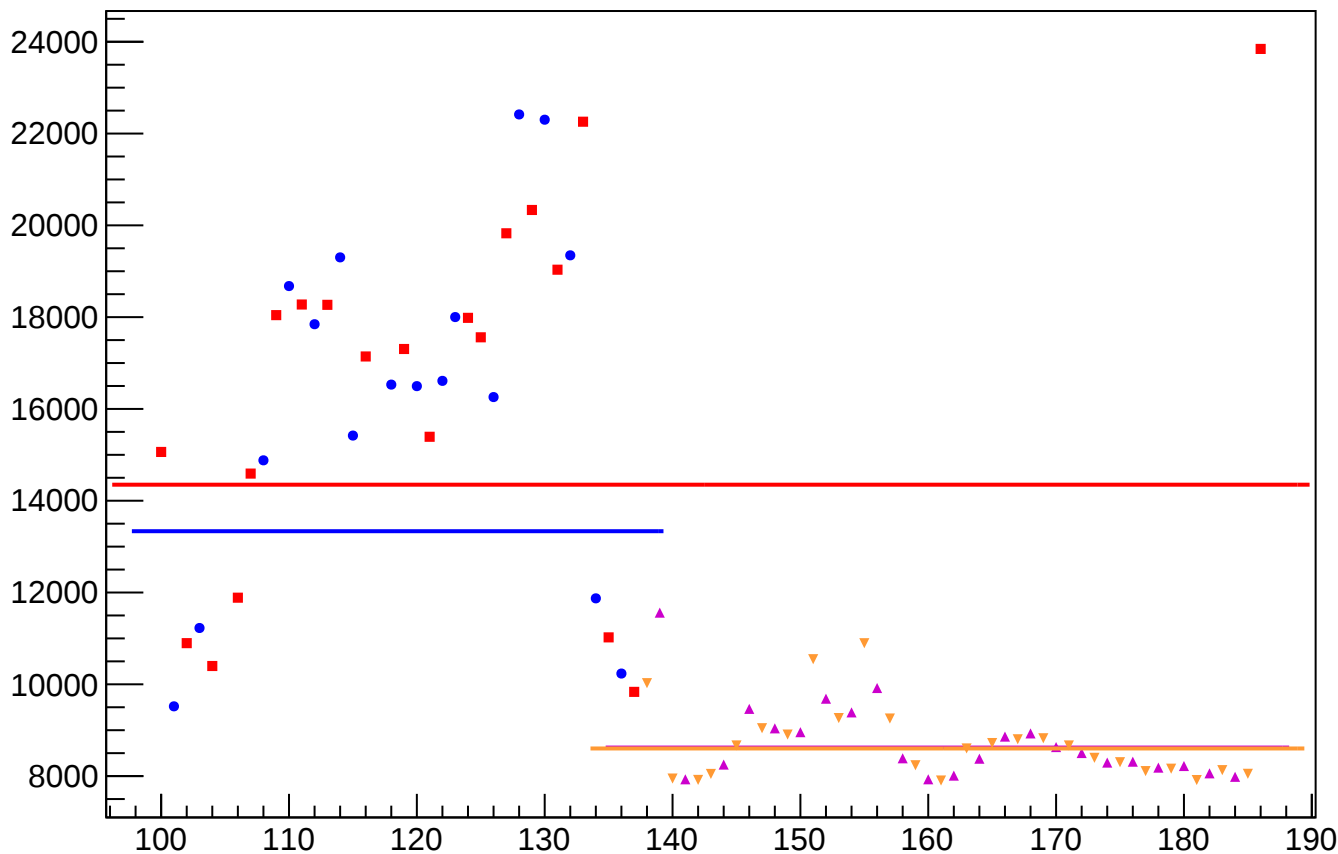
Right: -0.161±3.840 χ^2 /NDF: 41.2/36

In: -1.098±1.941 χ^2 /NDF: 54.3/39

Out: -7.361±1.891 χ^2 /NDF: 83.2/44

All: -4.312±1.354 χ^2 /NDF: 142.8/84

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13335.843+/-3.819 χ^2/NDF : 1049247.5/16

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

Right Out: 14349.308+/-3.861 χ^2/NDF : 1055546.2/19

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

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

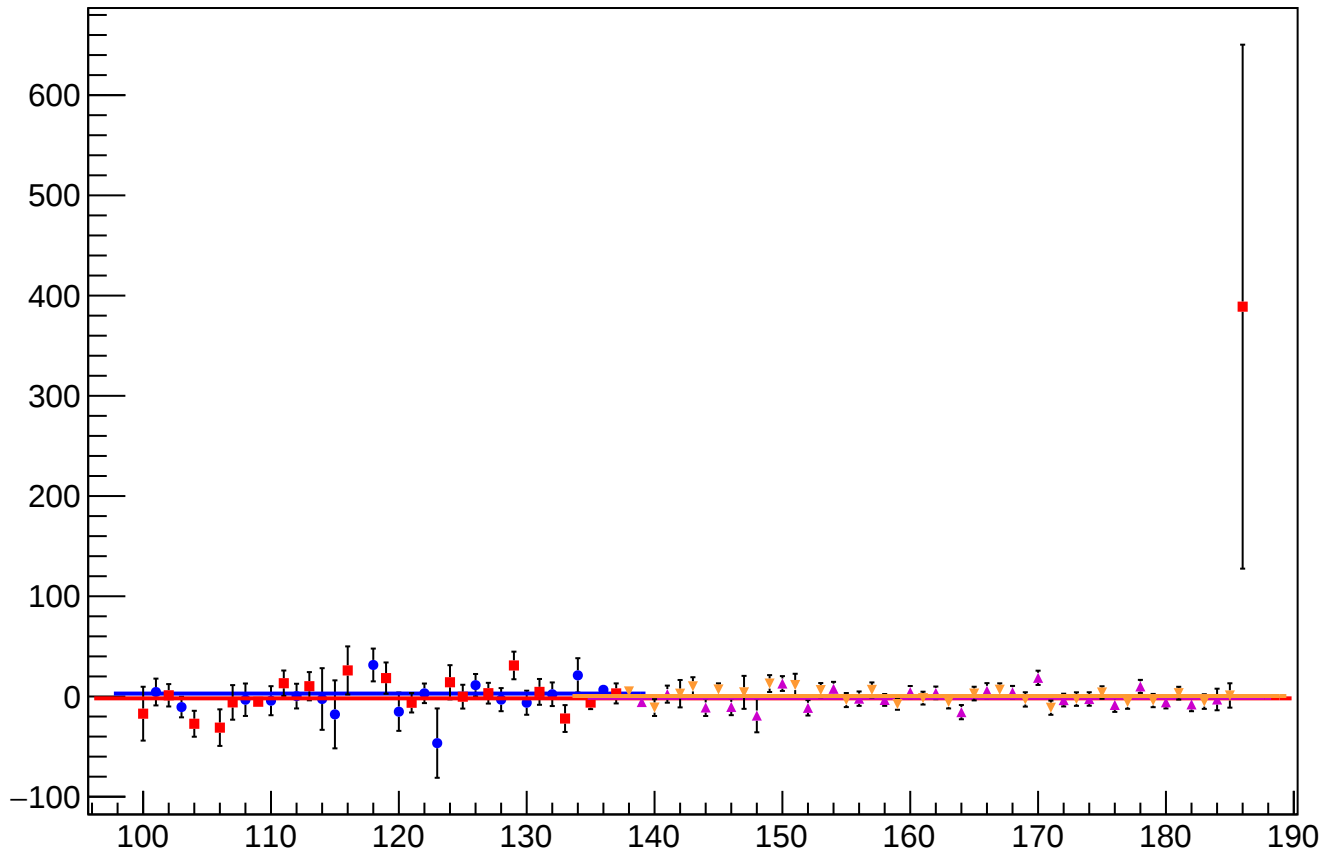
Right: 13837.013+/-2.715 χ^2/NDF : 2139613.9/36

In: 9230.677+/-1.372 χ^2/NDF : 2606692.6/39

Out: 9290.809+/-1.337 χ^2/NDF : 3254273.2/44

All: 9261.532+/-0.958 χ^2/NDF : 5861950.9/84

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.911 $\pm$ 2.758 χ^2/NDF : 11.8/16

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

Right Out: -1.858 $\pm$ 2.444 χ^2/NDF : 25.0/19

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

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

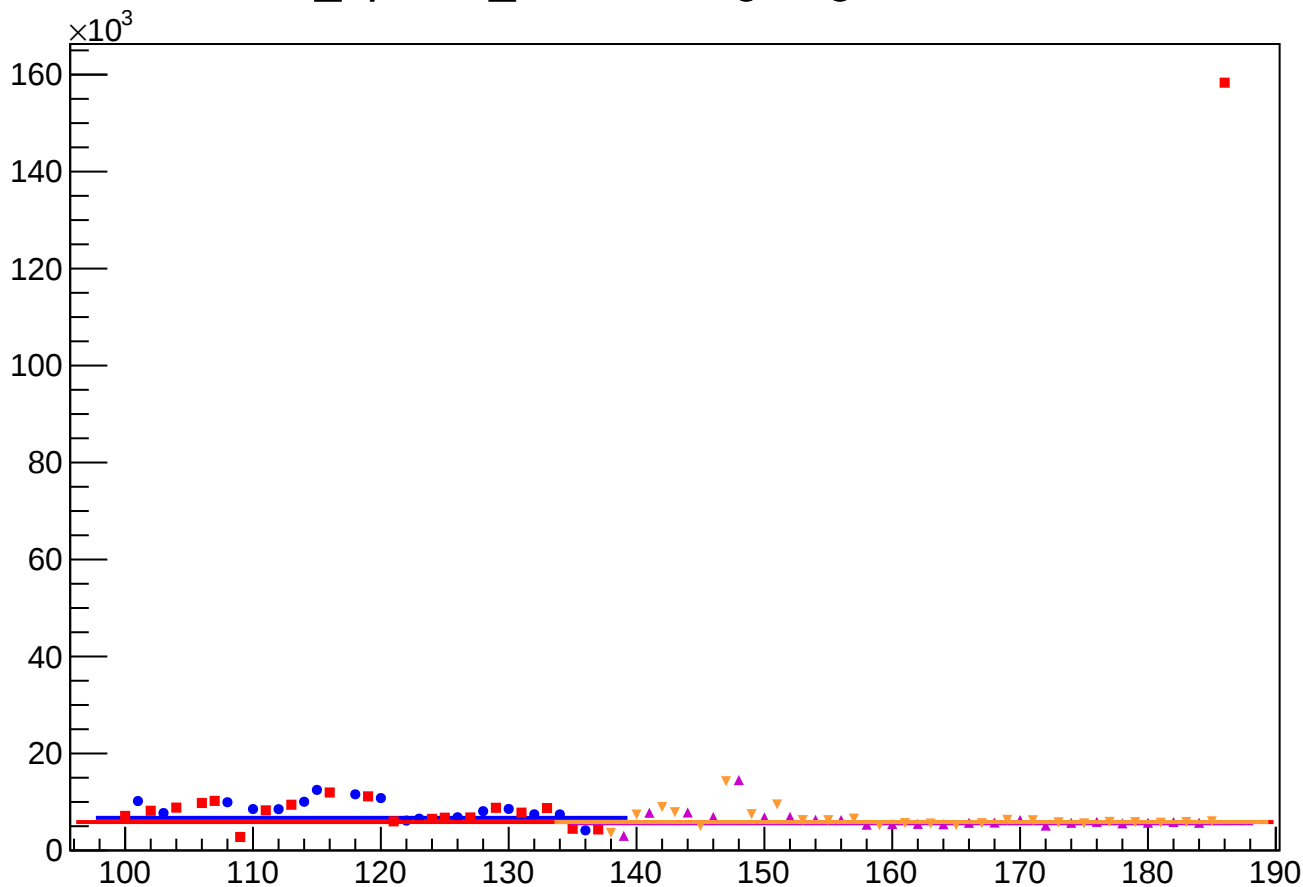
Right: 0.240 $\pm$ 1.829 χ^2/NDF : 38.5/36

In: -0.430 $\pm$ 1.253 χ^2/NDF : 46.7/39

Out: -0.109 $\pm$ 1.227 χ^2/NDF : 45.3/44

All: -0.266 $\pm$ 0.877 χ^2/NDF : 92.0/84

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6724.403 $\pm$ 1.950 χ^2 /NDF: 1391680.1/16

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

Right Out: 5856.335 $\pm$ 1.728 χ^2 /NDF: 2961333.6/19

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

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

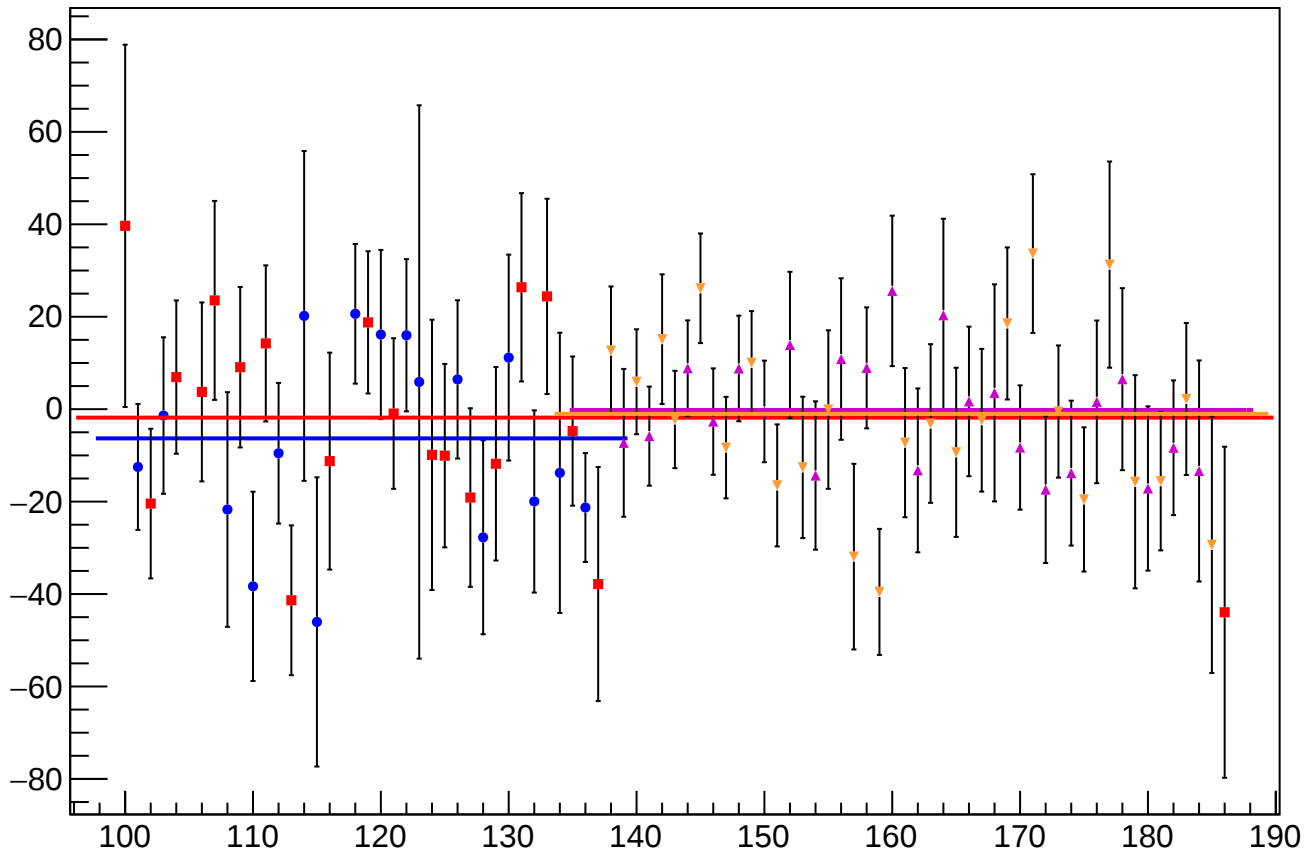
Right: 6238.182 $\pm$ 1.293 χ^2 /NDF: 4464016.4/36

In: 5829.564 $\pm$ 0.886 χ^2 /NDF: 3746778.4/39

Out: 5858.060 $\pm$ 0.868 χ^2 /NDF: 4652679.1/44

All: 5844.105 $\pm$ 0.620 χ^2 /NDF: 8399985.5/84

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.317 $\pm$ 4.525 χ^2/NDF : 16.2/16

Left Out: -1.007 $\pm$ 2.942 χ^2/NDF : 33.5/24

Right Out: -1.828 $\pm$ 4.349 χ^2/NDF : 21.6/19

Left In: -0.172 $\pm$ 3.067 χ^2/NDF : 12.4/22

Left: -0.607 $\pm$ 2.123 χ^2/NDF : 45.9/47

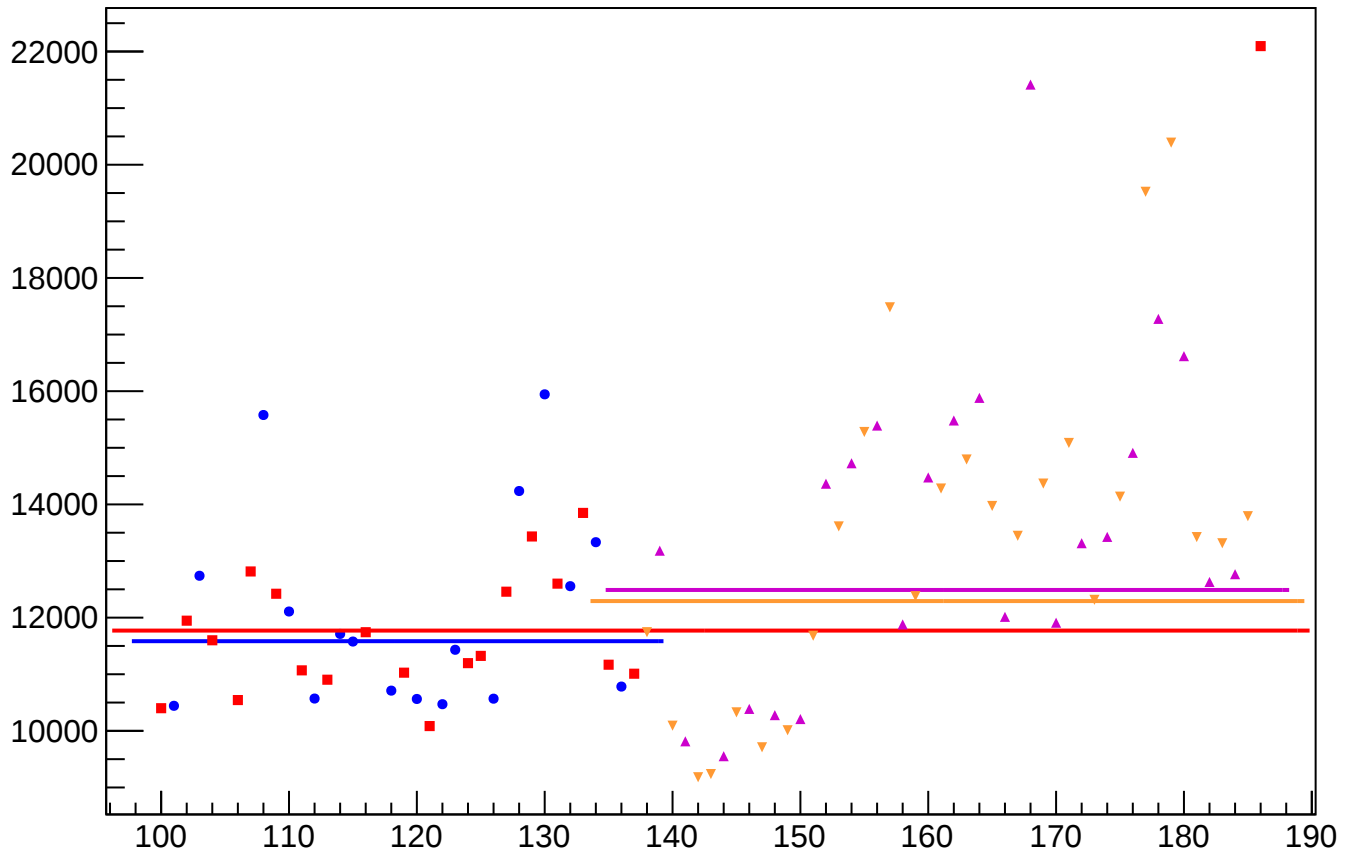
Right: -3.984 $\pm$ 3.136 χ^2/NDF : 38.3/36

In: -2.107 $\pm$ 2.539 χ^2/NDF : 29.9/39

Out: -1.265 $\pm$ 2.437 χ^2/NDF : 55.1/44

All: -1.668 $\pm$ 1.758 χ^2/NDF : 85.0/84

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11584.044+/-3.200 χ^2/NDF : 241550.8/16

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

Right Out: 11771.367+/-3.075 χ^2/NDF : 264127.4/19

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

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

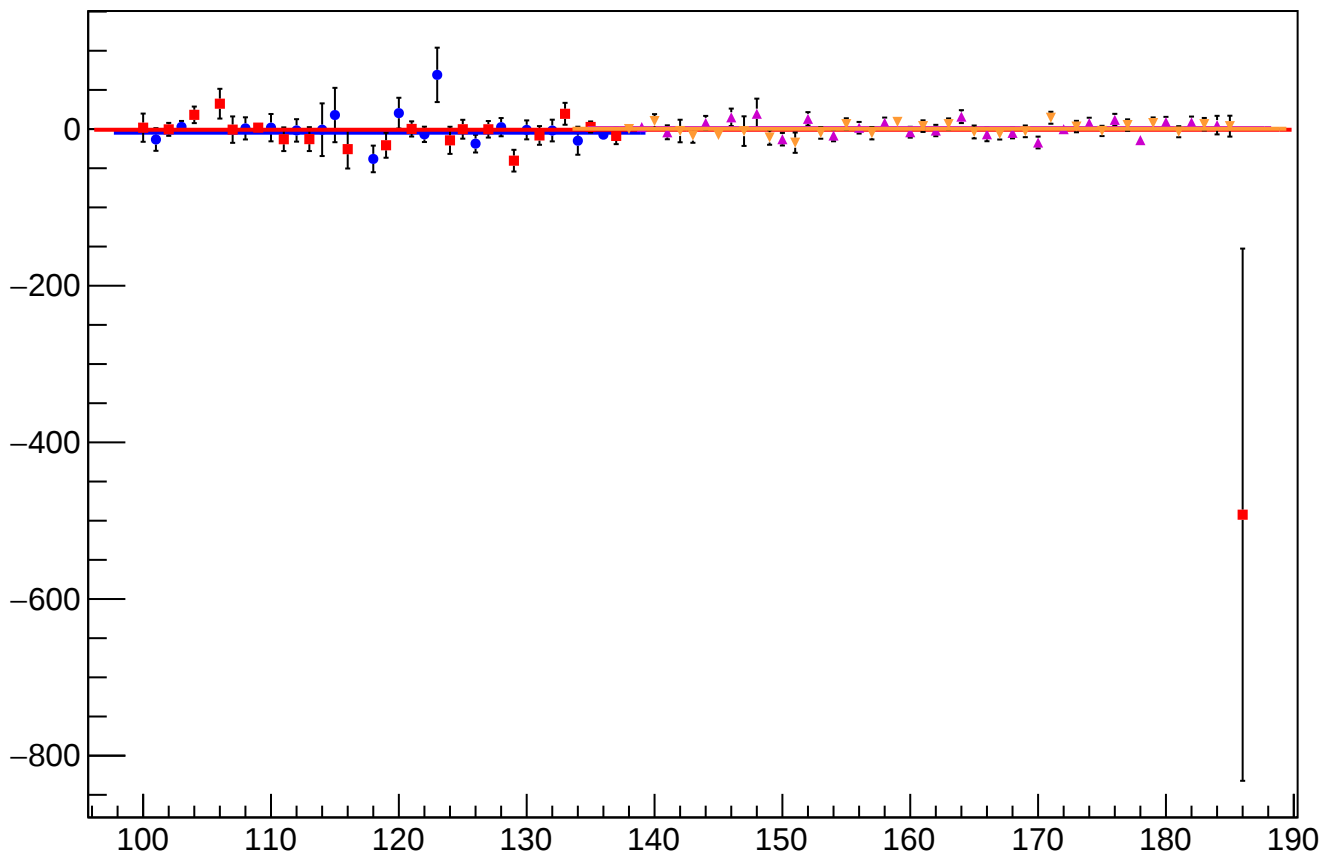
Right: 11681.411+/-2.217 χ^2/NDF : 507459.8/36

In: 12203.972+/-1.795 χ^2/NDF : 1650824.2/39

Out: 12128.997+/-1.723 χ^2/NDF : 1786383.6/44

All: 12164.943+/-1.243 χ^2/NDF : 3438115.7/8

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.616 ± 2.782 χ^2/NDF : 14.8/16

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

Right Out: -0.866 ± 2.431 χ^2/NDF : 24.6/19

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

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

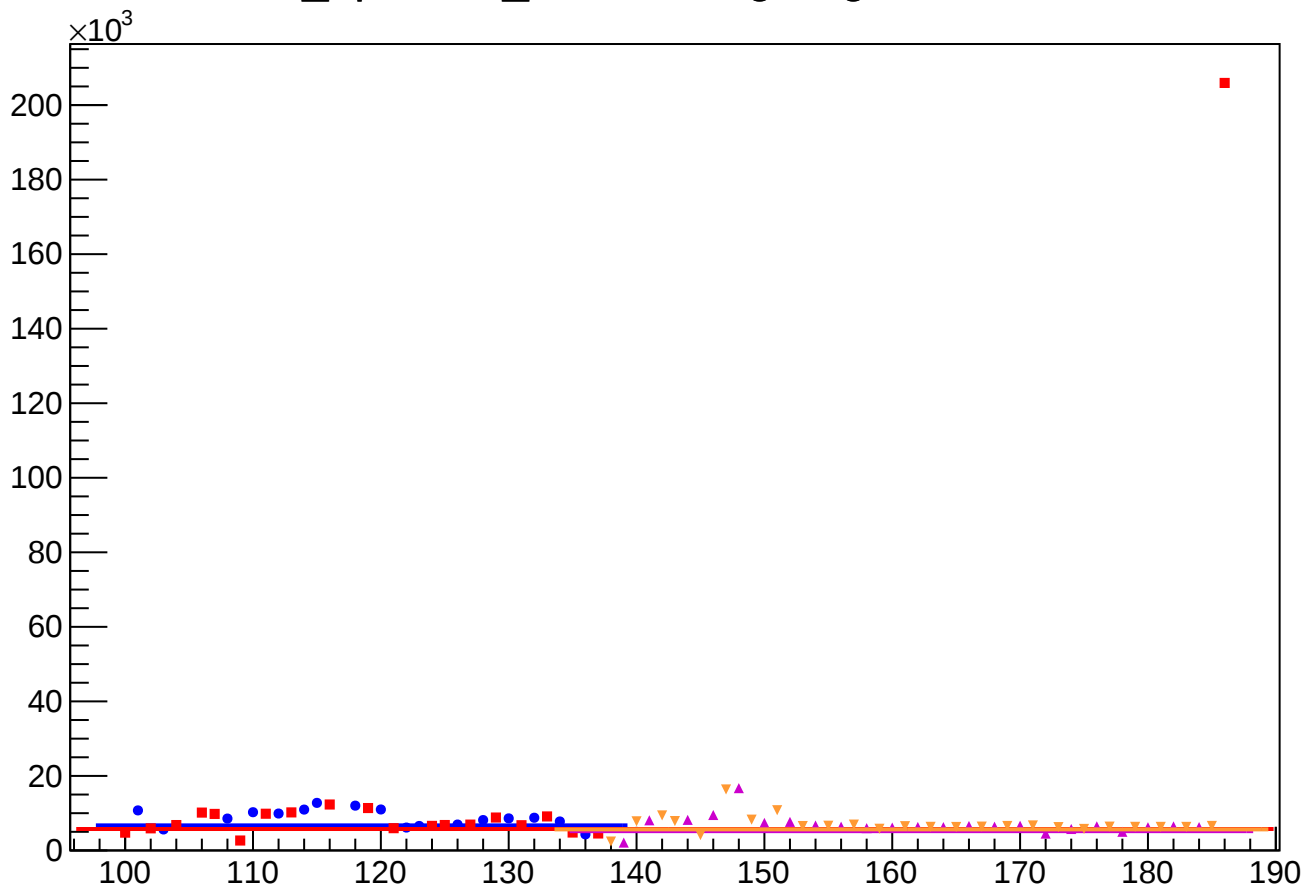
Right: -2.489 ± 1.830 χ^2/NDF : 40.5/36

In: 0.107 ± 1.240 χ^2/NDF : 52.4/39

Out: 0.081 ± 1.235 χ^2/NDF : 44.1/44

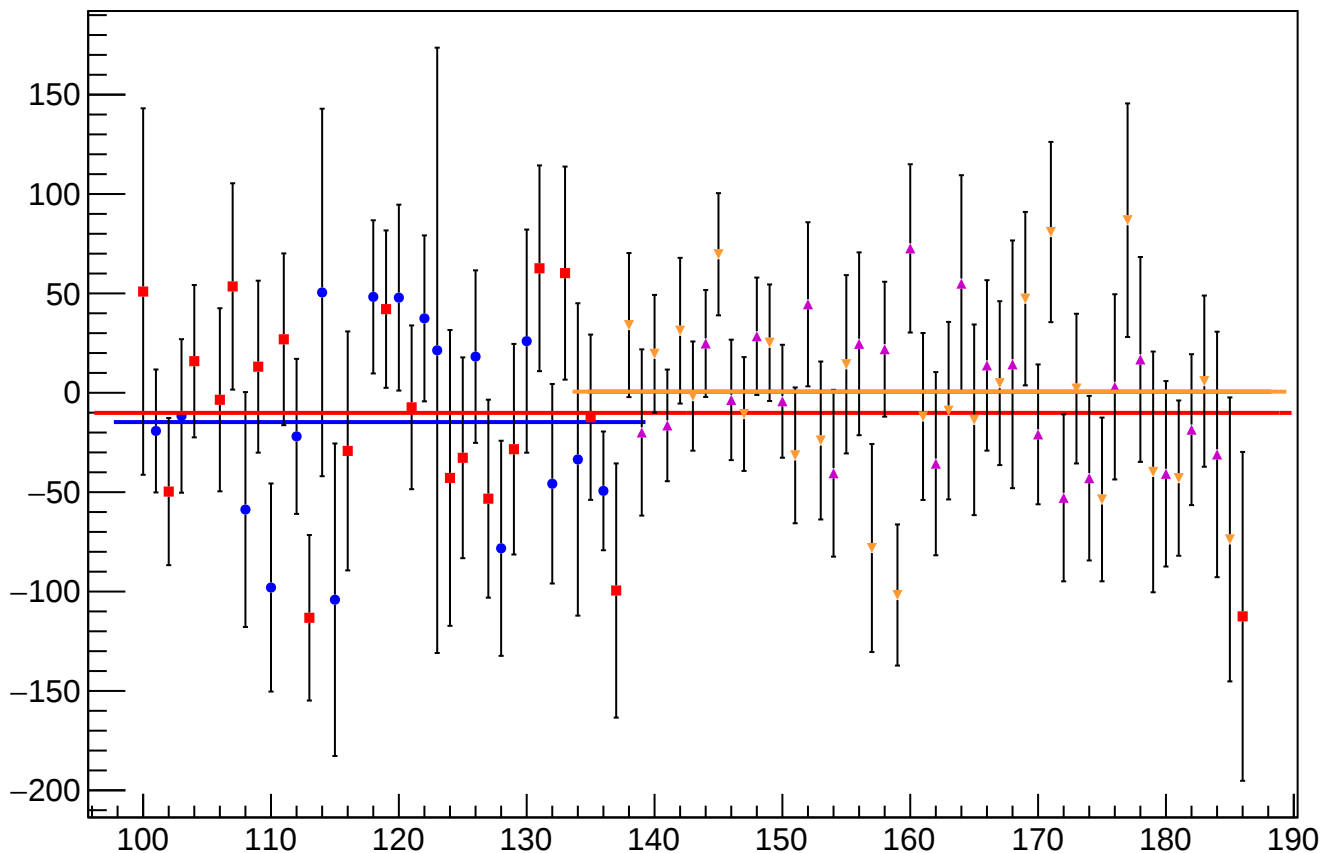
All: 0.093 ± 0.875 χ^2/NDF : 96.5/84

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.931 $\pm$ 1.967	χ^2/NDF : 1444572.7/16	Left: 5409.966 $\pm$ 0.705	χ^2/NDF : 9587556.1/47
Left Out: 5655.639 $\pm$ 1.014	χ^2/NDF : 4124124.3/24	Right: 6178.044 $\pm$ 1.294	χ^2/NDF : 4442938.6/36
Right Out: 5755.953 $\pm$ 1.719	χ^2/NDF : 2859050.8/19	In: 5488.931 $\pm$ 0.877	χ^2/NDF : 7292217.7/39
Left In: 5180.743 $\pm$ 0.980	χ^2/NDF : 5350053.6/22	Out: 5681.556 $\pm$ 0.874	χ^2/NDF : 6985701.6/44
		All: 5585.625 $\pm$ 0.619	χ^2/NDF : 14302132.4/8

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -14.734 $\pm$ 11.237 χ^2/NDF : 15.3/16

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

Right Out: -10.104 $\pm$ 10.819 χ^2/NDF : 21.0/19

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

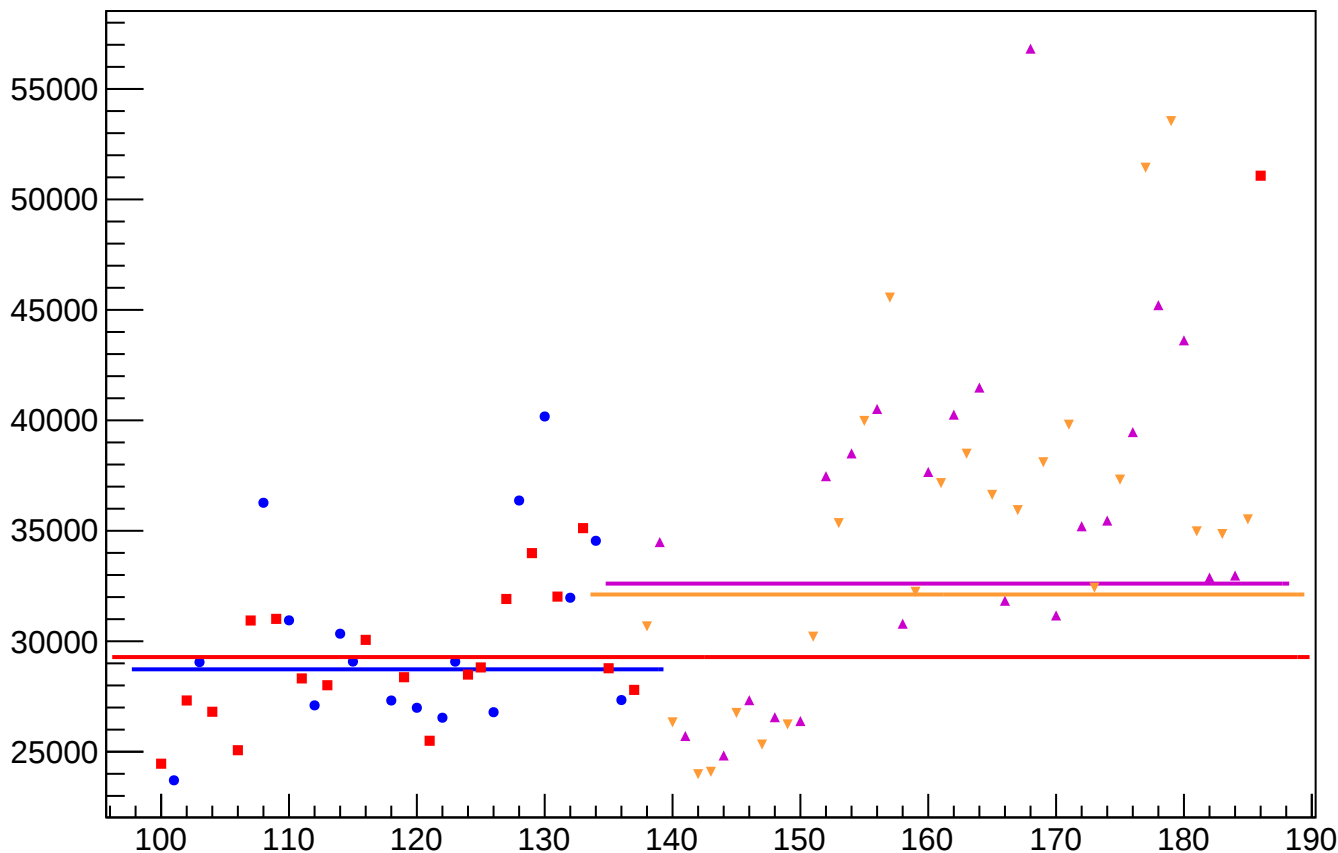
Right: -12.331 $\pm$ 7.794 χ^2/NDF : 36.4/36

In: -4.594 $\pm$ 6.525 χ^2/NDF :30.8/39

Out: -3.007 $\pm$ 6.268 χ^2/NDF :52.7/44

All: -3.769 $\pm$ 4.520 χ^2/NDF : 83.5/84

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28729.913+/-7.946

χ^2/NDF : 254816.0/16

Left: 32353.483+/-3.924 χ^2/NDF : 2939154.5/47

Right: 29017.909+/-5.511 χ^2/NDF : 511155.1/36

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

In: 31301.792+/-4.614 χ^2/NDF : 1811359.5/39

Out: 31166.389+/-4.432 χ^2/NDF : 1881610.5/44

Right Out: 29284.863+/-7.650

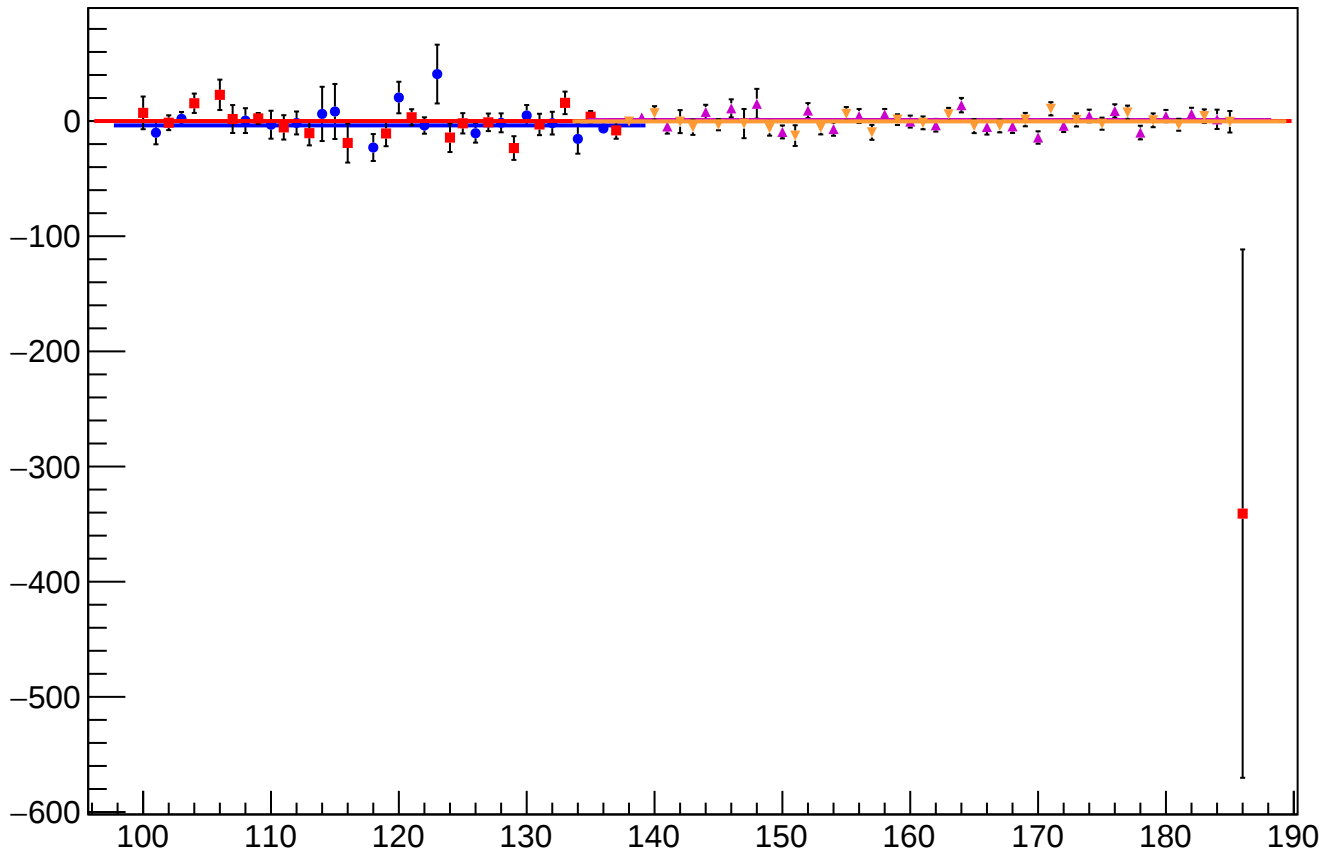
χ^2/NDF : 253807.5/19

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

All: 31231.374+/-3.196 χ^2/NDF : 3693417.9/8

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.773 ± 2.010 χ^2/NDF : 14.0/16

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

Right Out: 0.019 ± 1.894 χ^2/NDF : 23.9/19

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

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

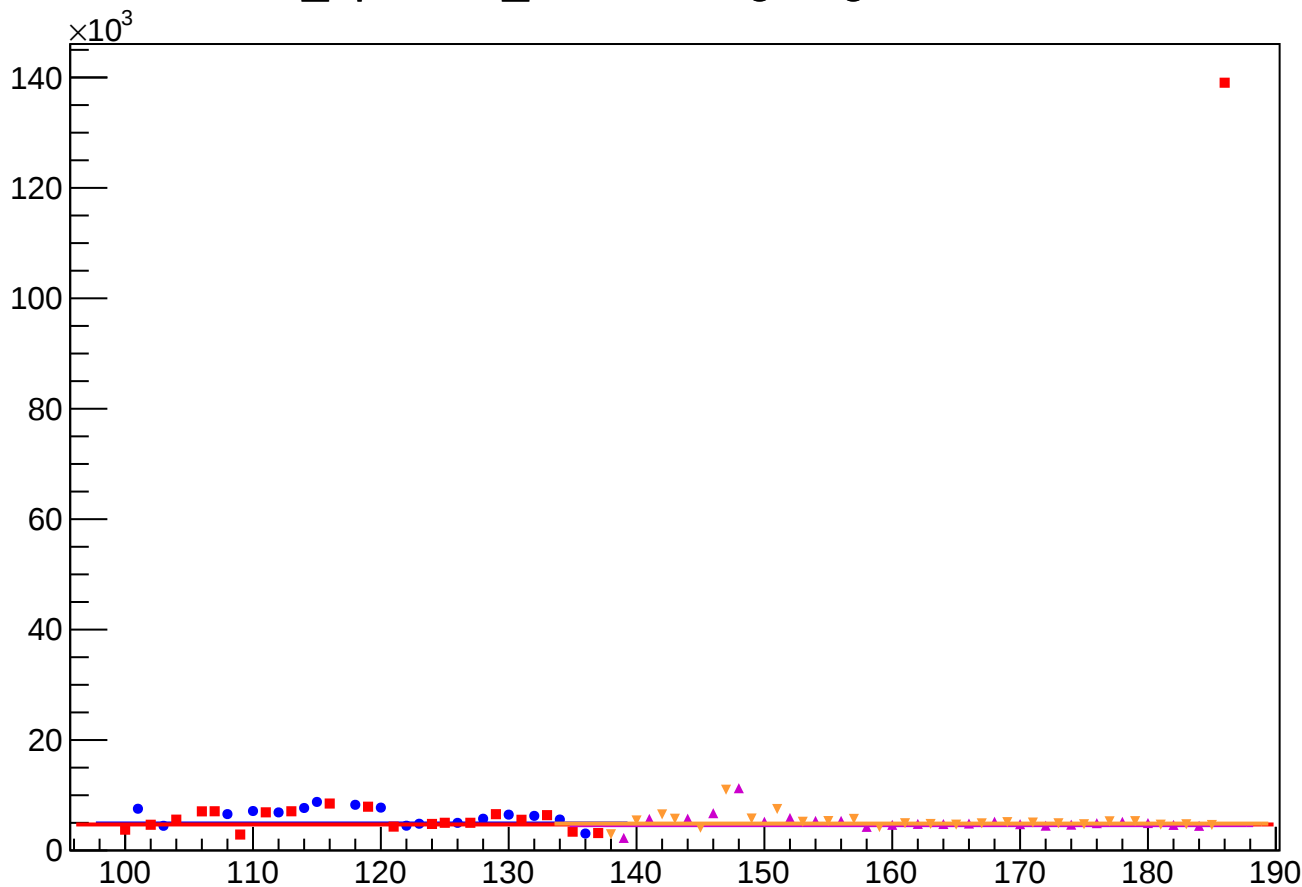
Right: -1.764 ± 1.378 χ^2/NDF : 39.8/36

In: -0.239 ± 1.001 χ^2/NDF : 54.2/39

Out: -0.179 ± 0.997 χ^2/NDF : 41.9/44

All: -0.209 ± 0.706 χ^2/NDF : 96.2/84

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.759 $\pm$ 1.421 χ^2/NDF : 1408633.3/16

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

Right Out: 4707.532 $\pm$ 1.339 χ^2/NDF : 2001998.7/19

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

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

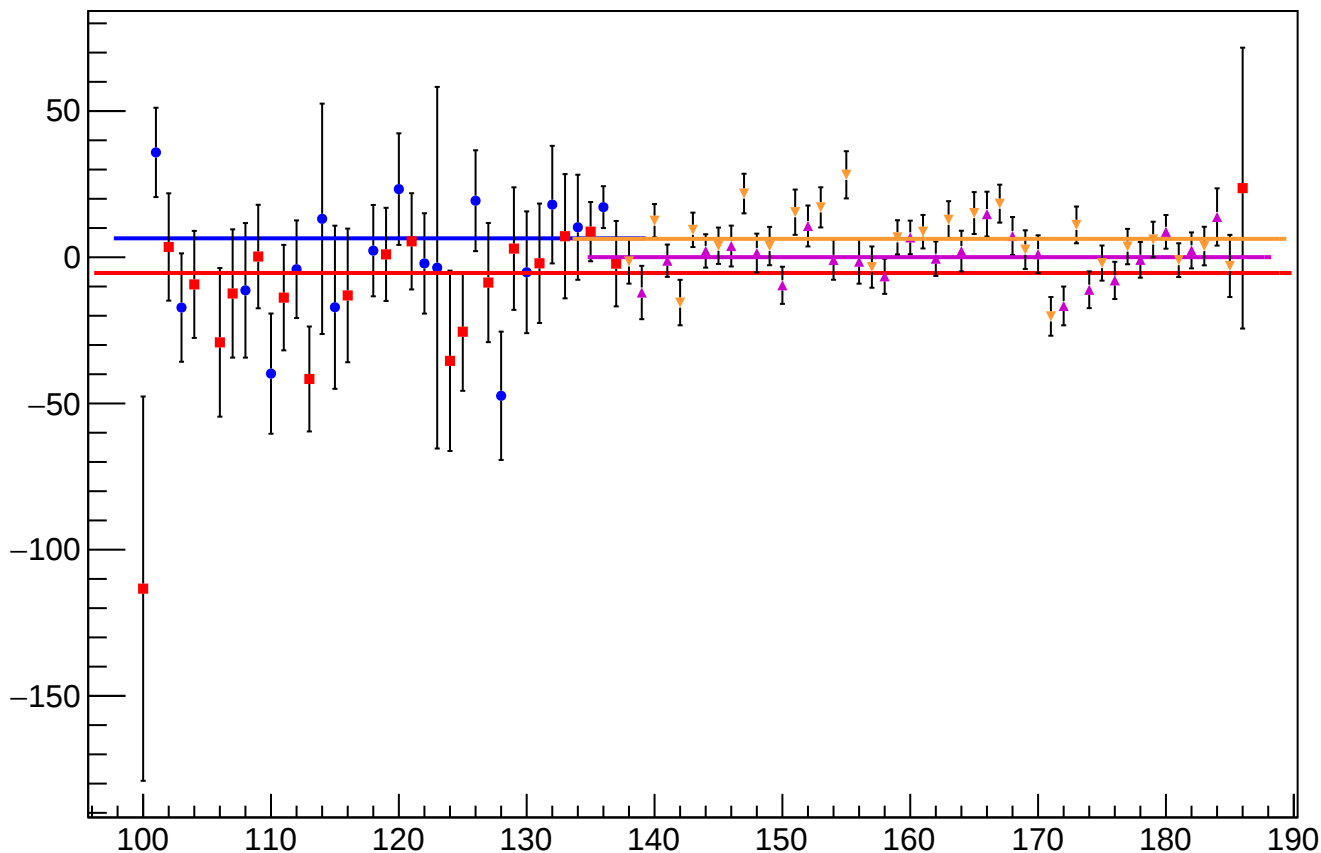
Right: 4792.292 $\pm$ 0.975 χ^2/NDF : 3419149.1/36

In: 4657.913 $\pm$ 0.708 χ^2/NDF : 3922080.6/39

Out: 4822.456 $\pm$ 0.705 χ^2/NDF : 3523672.6/44

All: 4740.468 $\pm$ 0.499 χ^2/NDF : 7472888.5/84

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.482 $\pm$ 4.072 χ^2/NDF : 22.7/16

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

Right Out: -5.376 $\pm$ 4.211 χ^2/NDF : 13.9/19

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

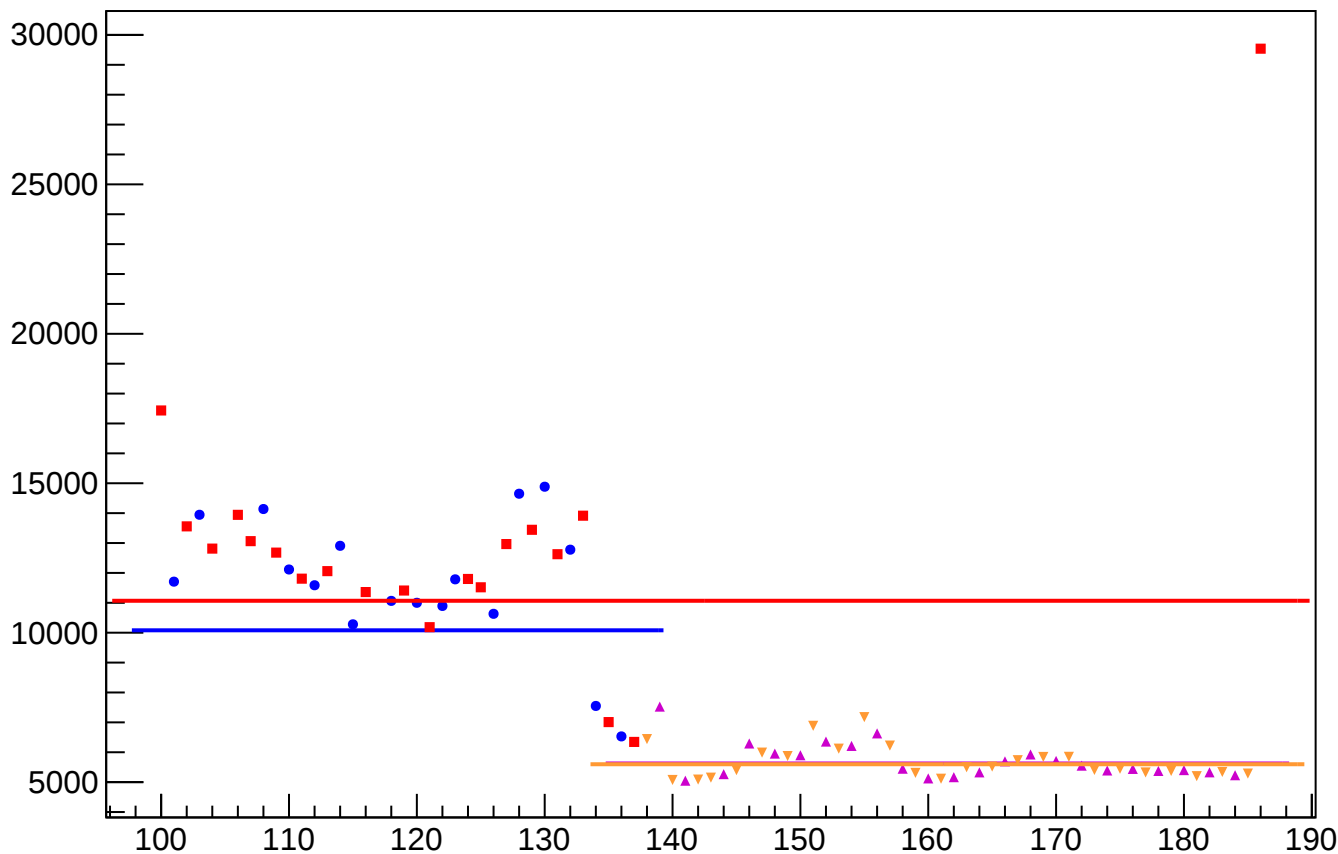
Right: 0.751 $\pm$ 2.927 χ^2/NDF : 40.8/36

In: 0.688 $\pm$ 1.288 χ^2/NDF : 55.0/39

Out: 5.268 $\pm$ 1.253 χ^2/NDF : 77.6/44

All: 3.041 $\pm$ 0.898 χ^2/NDF : 139.1/84

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10079.938 $\pm$ 2.879 χ^2 /NDF: 999414.2/16

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

Right Out: 11067.999 $\pm$ 2.977 χ^2 /NDF: 1067733.4/19

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

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

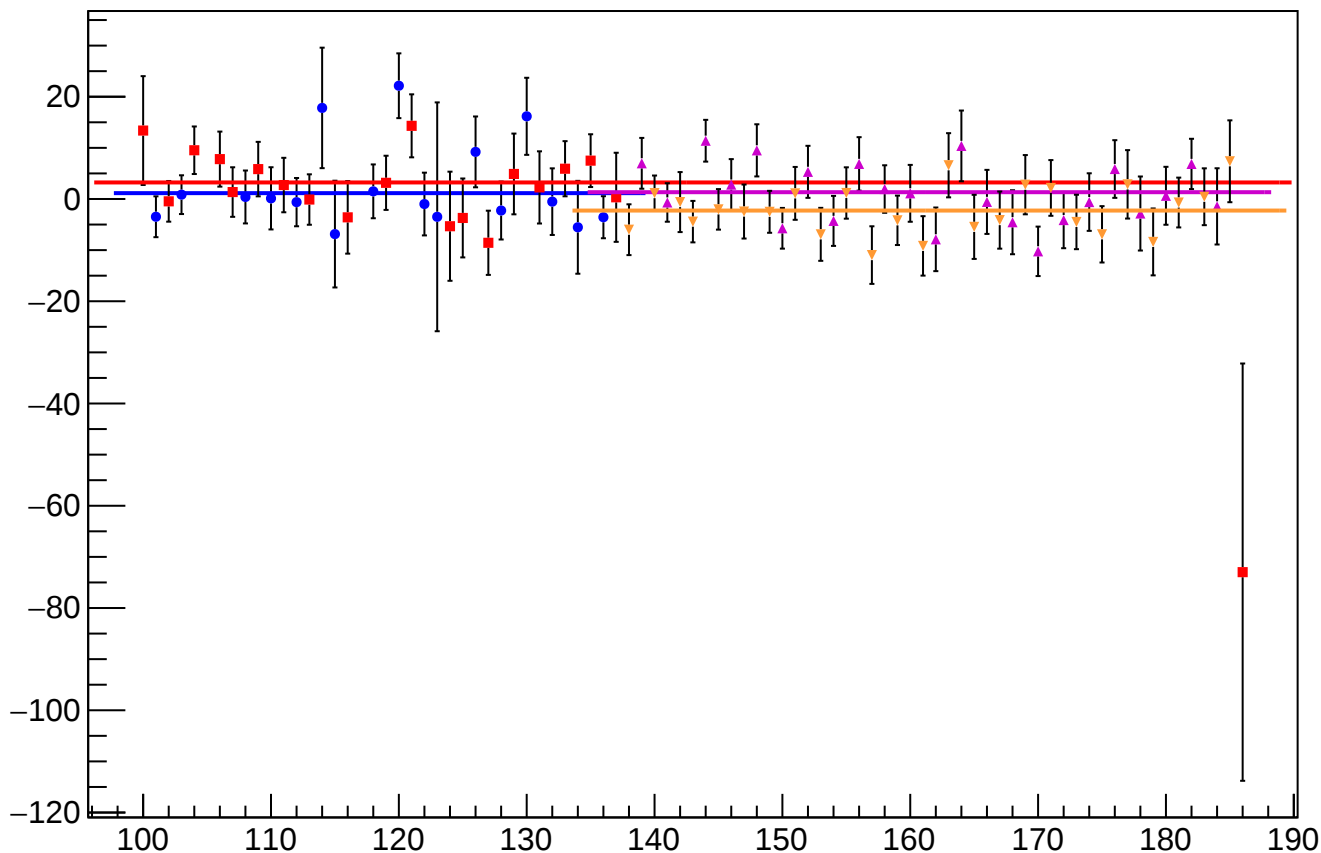
Right: 10557.451 $\pm$ 2.070 χ^2 /NDF: 2124052.0/36

In: 6070.841 $\pm$ 0.911 χ^2 /NDF: 3425993.4/39

Out: 6083.160 $\pm$ 0.886 χ^2 /NDF: 4426383.0/44

All: 6077.169 $\pm$ 0.635 χ^2 /NDF: 7852470.4/84

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.144 ± 1.398 $\chi^2/\text{NDF}: 22.9/16$

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

Right Out: 3.234 ± 1.335 $\chi^2/\text{NDF}: 18.9/19$

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

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

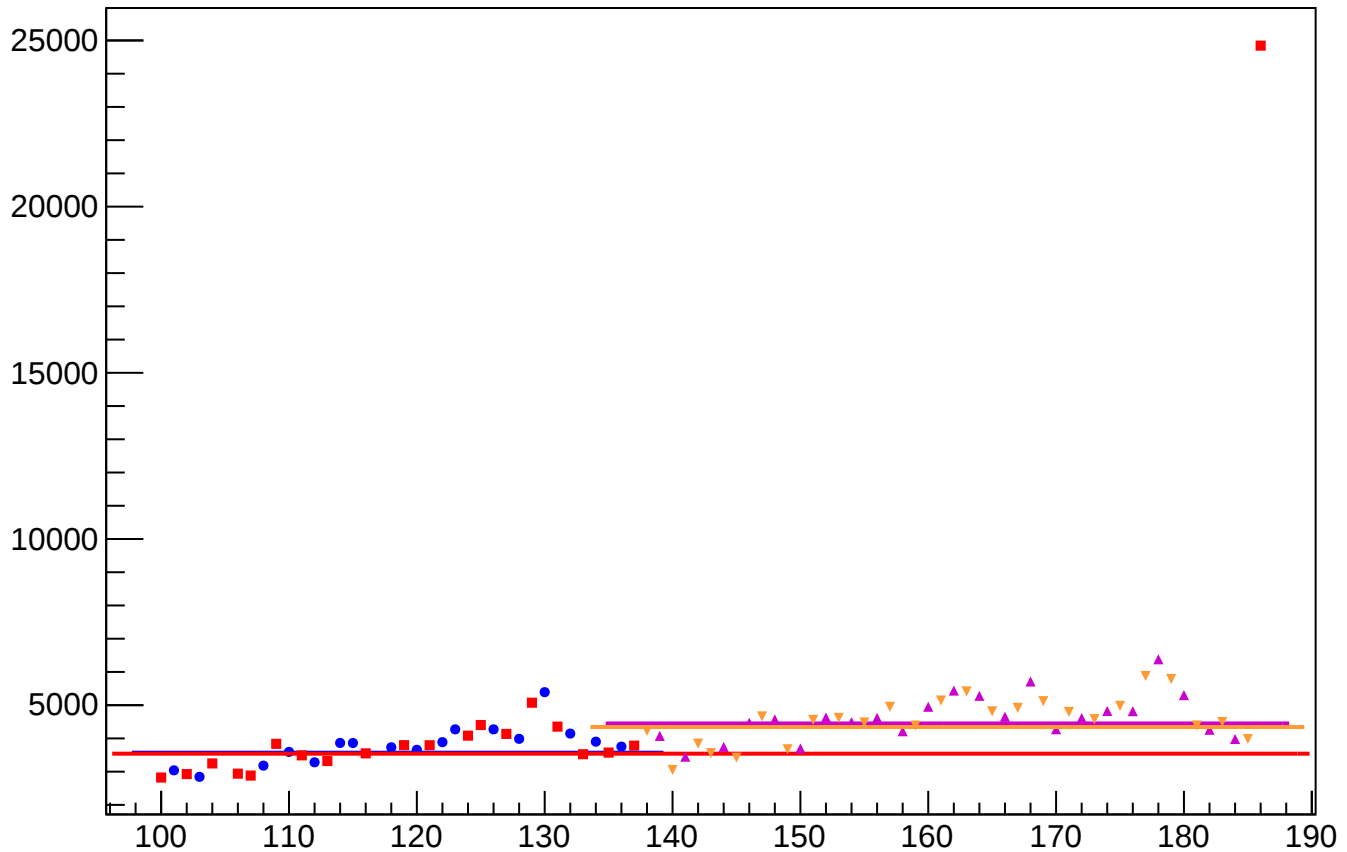
Right: 2.237 ± 0.965 $\chi^2/\text{NDF}: 43.0/36$

In: 1.259 ± 0.856 $\chi^2/\text{NDF}: 53.5/39$

Out: -0.210 ± 0.815 $\chi^2/\text{NDF}: 45.1/44$

All: 0.489 ± 0.590 $\chi^2/\text{NDF}: 100.1/84$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.545 $\pm$ 0.988 χ^2/NDF : 310402.0/16

Left Out: 4342.635 $\pm$ 0.728 χ^2/NDF : 993035.5/24

Right Out: 3540.761 $\pm$ 0.944 χ^2/NDF : 841814.8/19

Left In: 4450.007 $\pm$ 0.765 χ^2/NDF : 693229.8/22

Left: 4393.686 $\pm$ 0.528 χ^2/NDF : 1696596.0/47

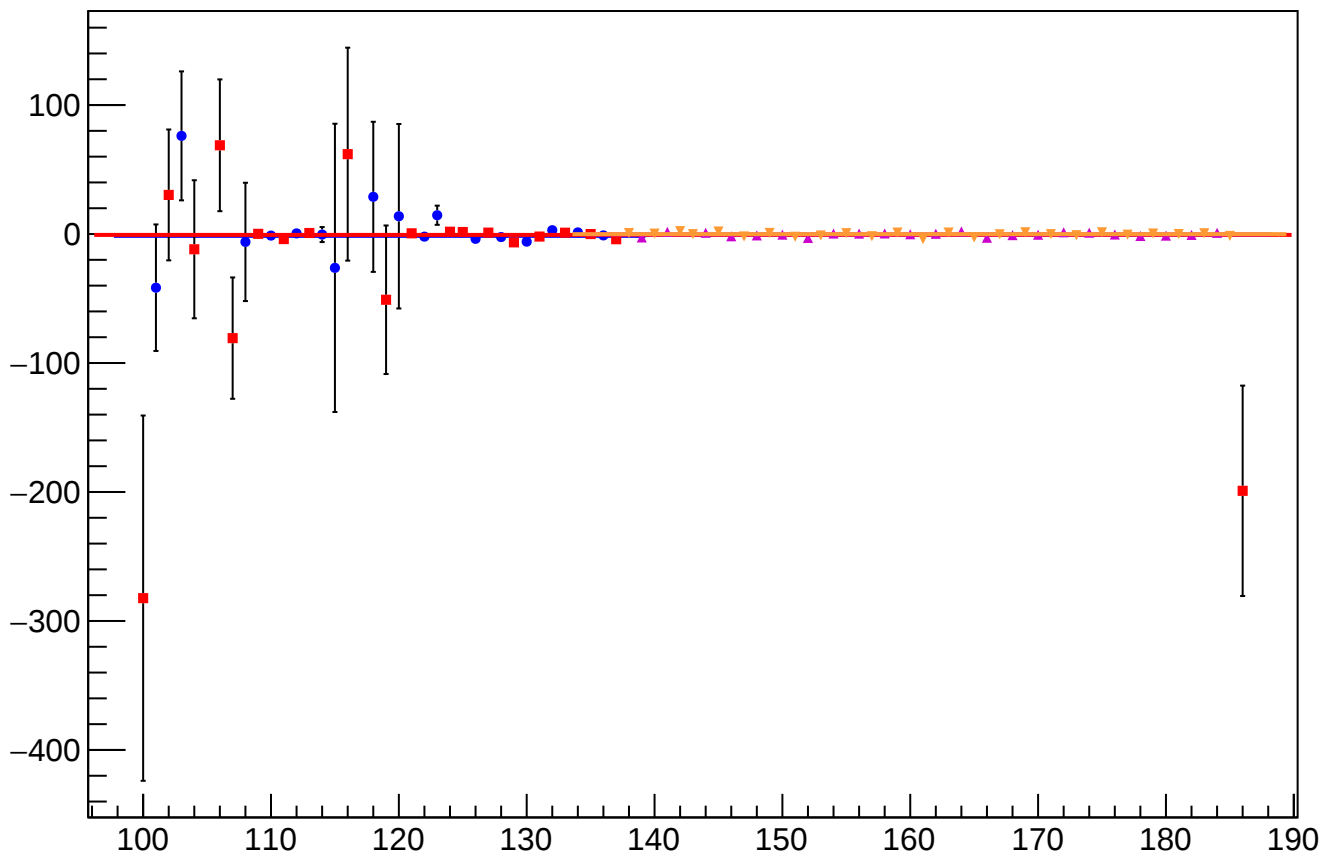
Right: 3554.965 $\pm$ 0.683 χ^2/NDF : 1152691.8/36

In: 4120.453 $\pm$ 0.605 χ^2/NDF : 1498753.8/39

Out: 4043.240 $\pm$ 0.577 χ^2/NDF : 2287314.9/44

All: 4079.994 $\pm$ 0.417 χ^2/NDF : 3794603.7/84

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.402 ± 0.751 χ^2/NDF : 16.7/16

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

Right Out: -0.679 ± 0.713 χ^2/NDF : 27.4/19

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

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

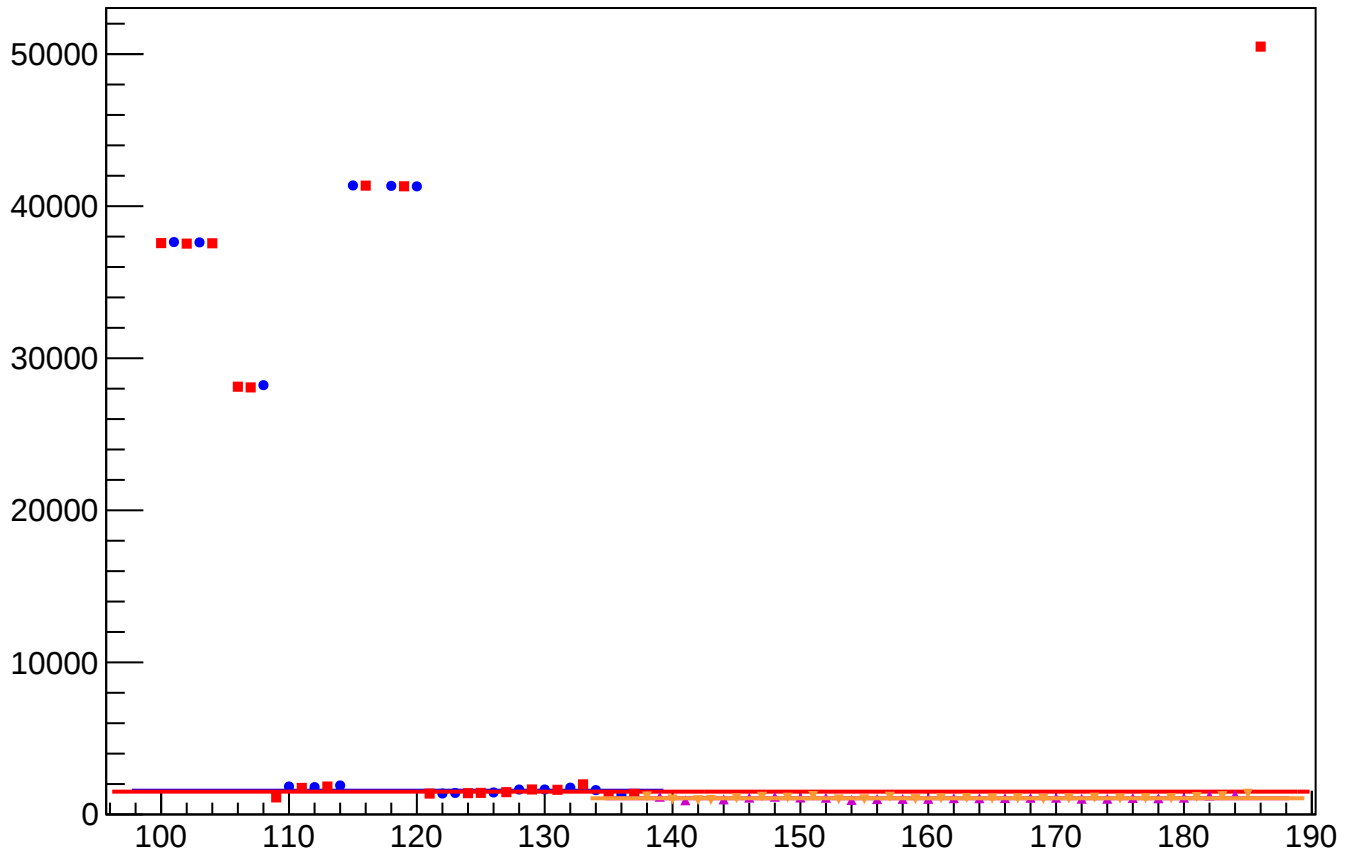
Right: -1.022 ± 0.517 χ^2/NDF : 44.6/36

In: -0.379 ± 0.243 χ^2/NDF : 46.0/39

Out: -0.155 ± 0.235 χ^2/NDF : 62.4/44

All: -0.264 ± 0.169 χ^2/NDF : 108.9/84

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1560.531 $\pm$ 0.531 χ^2 /NDF: 4753218.6/16

Left Out: 1064.701 $\pm$ 0.176 χ^2 /NDF:186511.5/24

Right Out: 1500.090 $\pm$ 0.504 χ^2 /NDF: 5615018.0/19

Left In: 1066.255 $\pm$ 0.182 χ^2 /NDF:164232.1/22

Left: 1065.454 $\pm$ 0.126 χ^2 /NDF: 350781.3/47

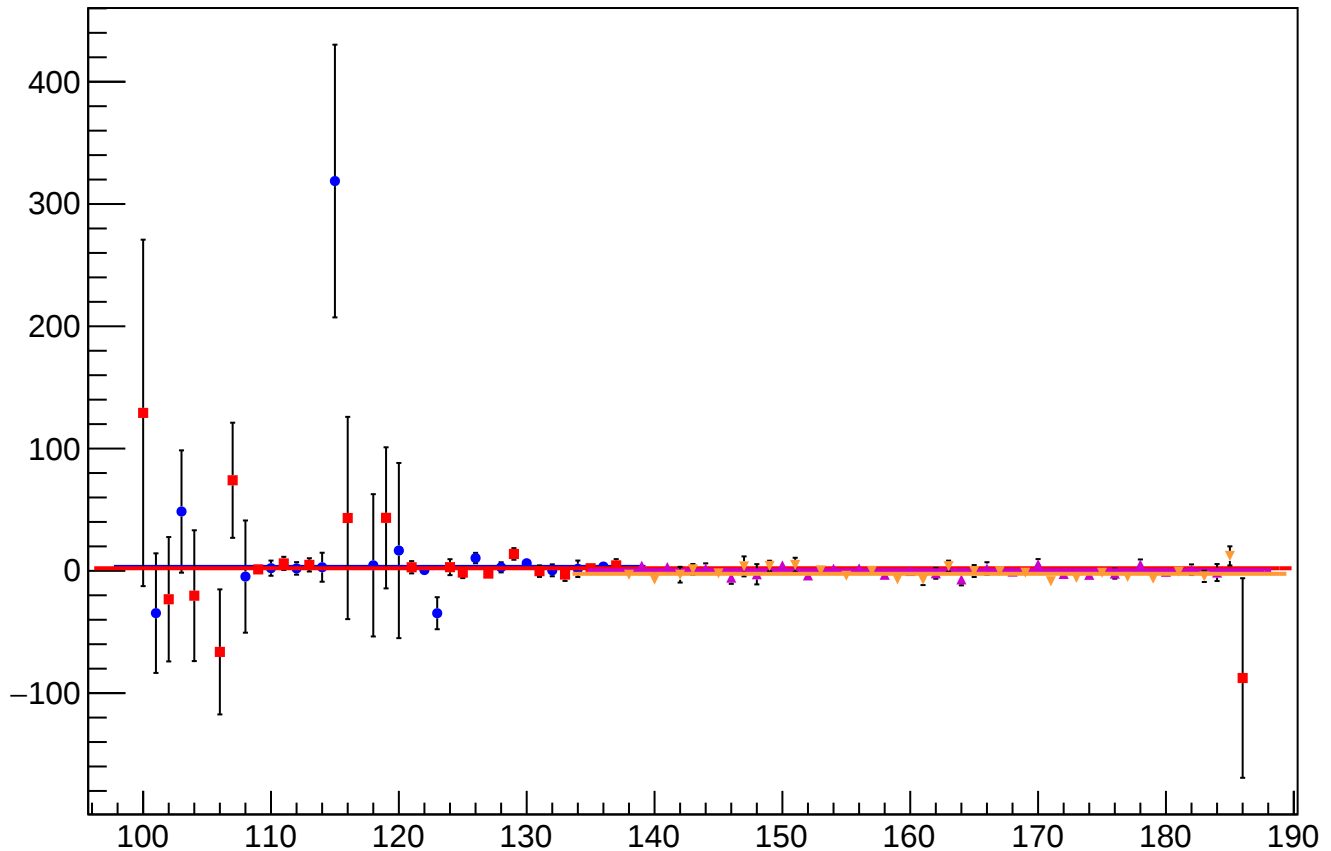
Right: 1528.759 $\pm$ 0.366 χ^2 /NDF: 10375053.4/36

In: 1118.105 $\pm$ 0.172 χ^2 /NDF:5693710.6/39

Out: 1112.041 $\pm$ 0.166 χ^2 /NDF:6466166.5/44

All: 1114.972 $\pm$ 0.120 χ^2 /NDF: 12160520.0/80

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.232 ± 1.328 $\chi^2/\text{NDF}: 22.2/16$

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

Right Out: 2.118 ± 1.239 $\chi^2/\text{NDF}: 17.7/19$

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

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

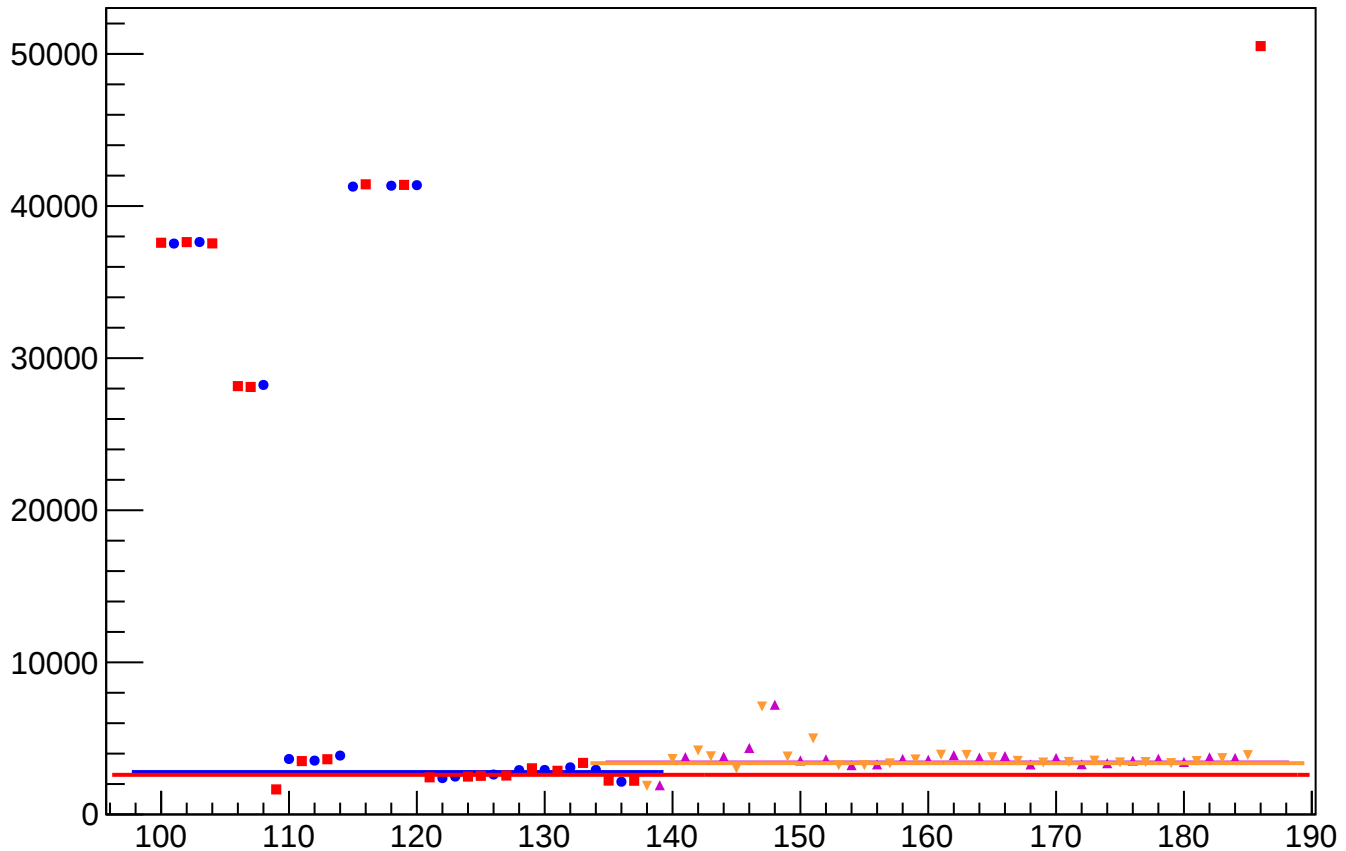
Right: 2.637 ± 0.906 $\chi^2/\text{NDF}: 40.3/36$

In: 1.262 ± 0.712 $\chi^2/\text{NDF}: 40.8/39$

Out: -1.061 ± 0.678 $\chi^2/\text{NDF}: 48.4/44$

All: 0.045 ± 0.491 $\chi^2/\text{NDF}: 94.8/84$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2786.135 $\pm$ 0.939 χ^2 /NDF: 4576694.3/16

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

Right Out: 2604.892 $\pm$ 0.876 χ^2 /NDF: 5537918.7/19

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

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

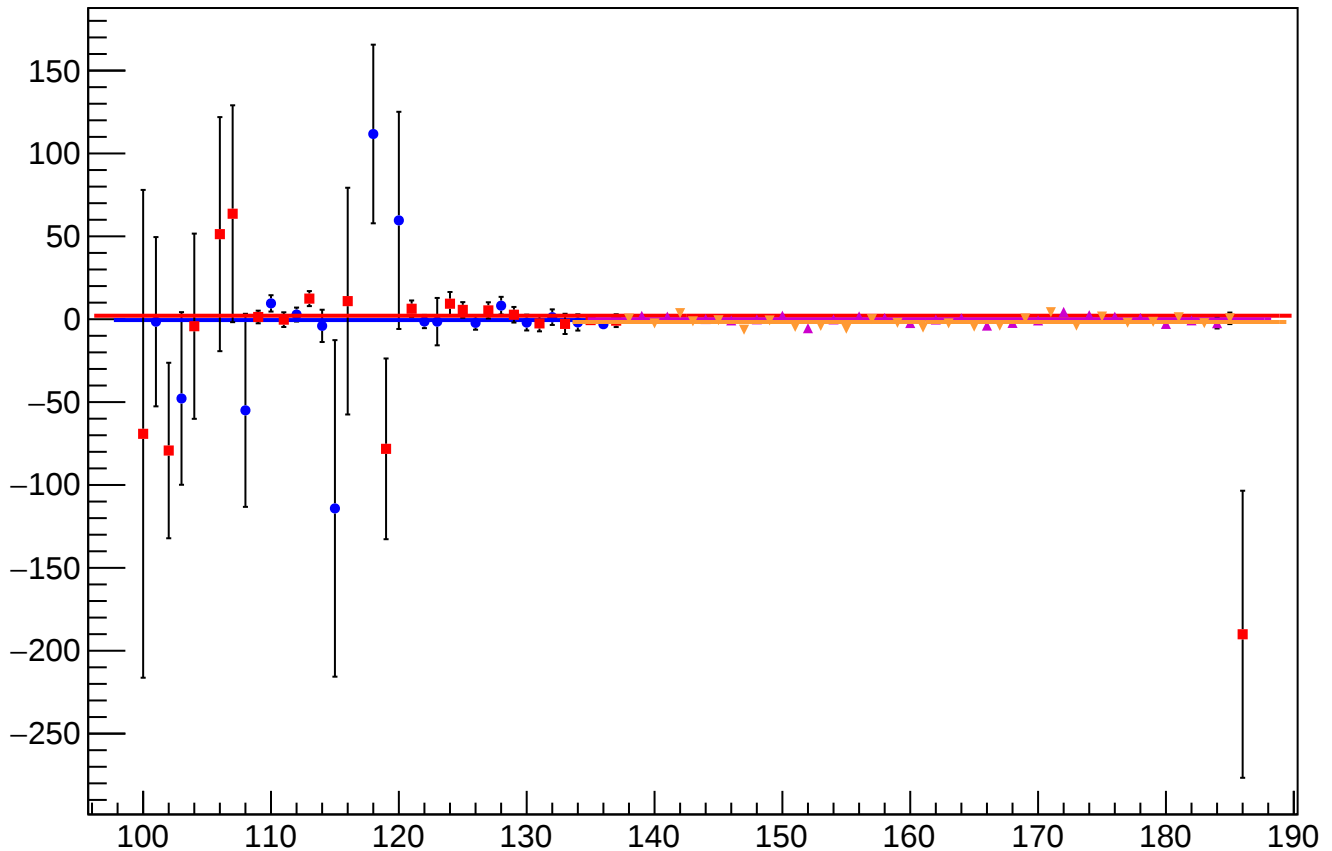
Right: 2689.263 $\pm$ 0.641 χ^2 /NDF: 10134531.8/36

In: 3232.179 $\pm$ 0.503 χ^2 /NDF: 6327890.6/39

Out: 3142.796 $\pm$ 0.480 χ^2 /NDF: 7732941.1/44

All: 3185.349 $\pm$ 0.347 χ^2 /NDF: 14077364.7/80

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.510 ± 1.222 χ^2/NDF : 18.0/16

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

Right Out: 2.112 ± 1.250 χ^2/NDF : 22.5/19

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

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

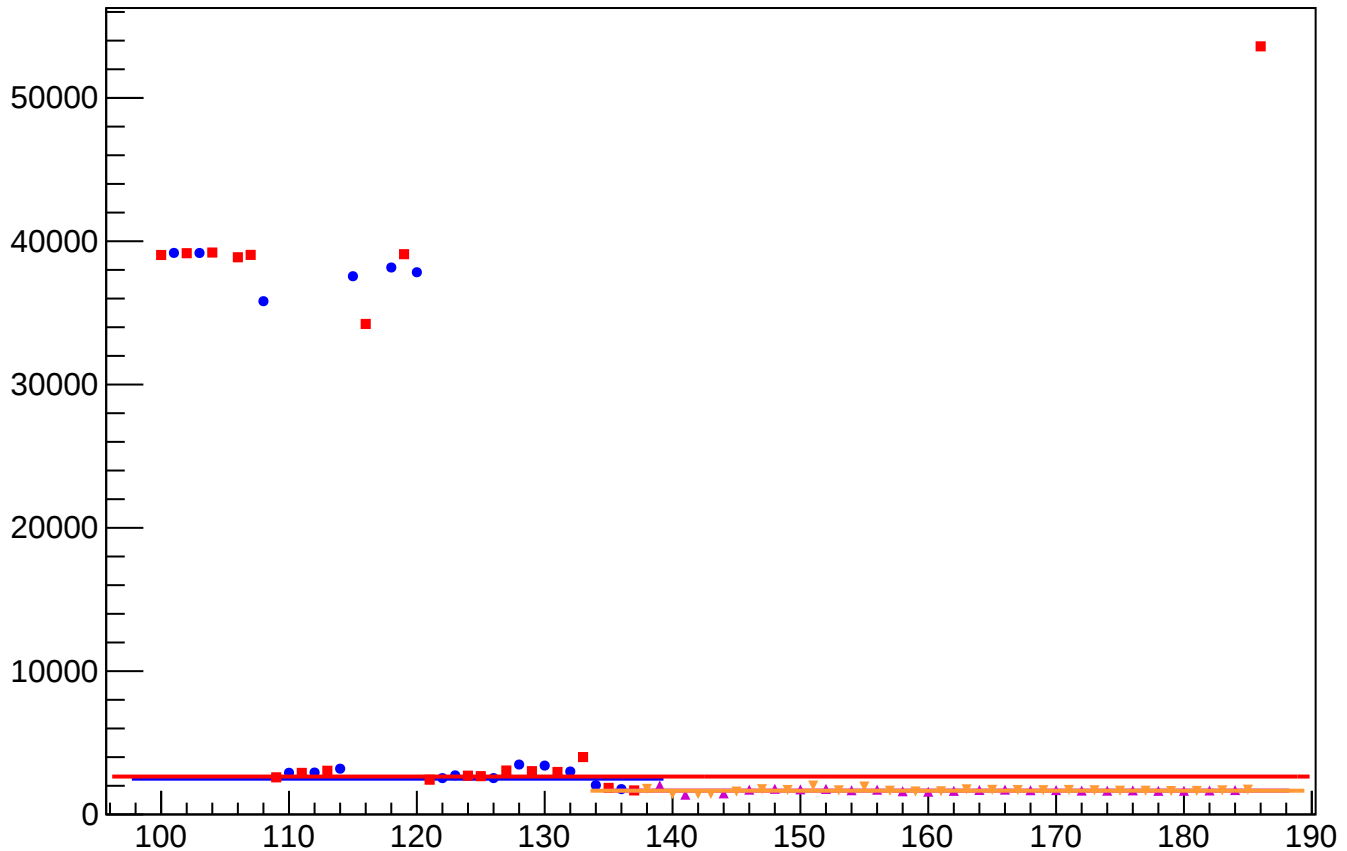
Right: 0.771 ± 0.874 χ^2/NDF : 42.7/36

In: -0.114 ± 0.381 χ^2/NDF : 46.3/39

Out: -1.340 ± 0.371 χ^2/NDF : 76.5/44

All: -0.744 ± 0.266 χ^2/NDF : 128.2/84

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2496.856+/-0.864 χ^2/NDF : 4887806.1/16

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

Right Out: 2645.220+/-0.884 χ^2/NDF : 5554445.6/19

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

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

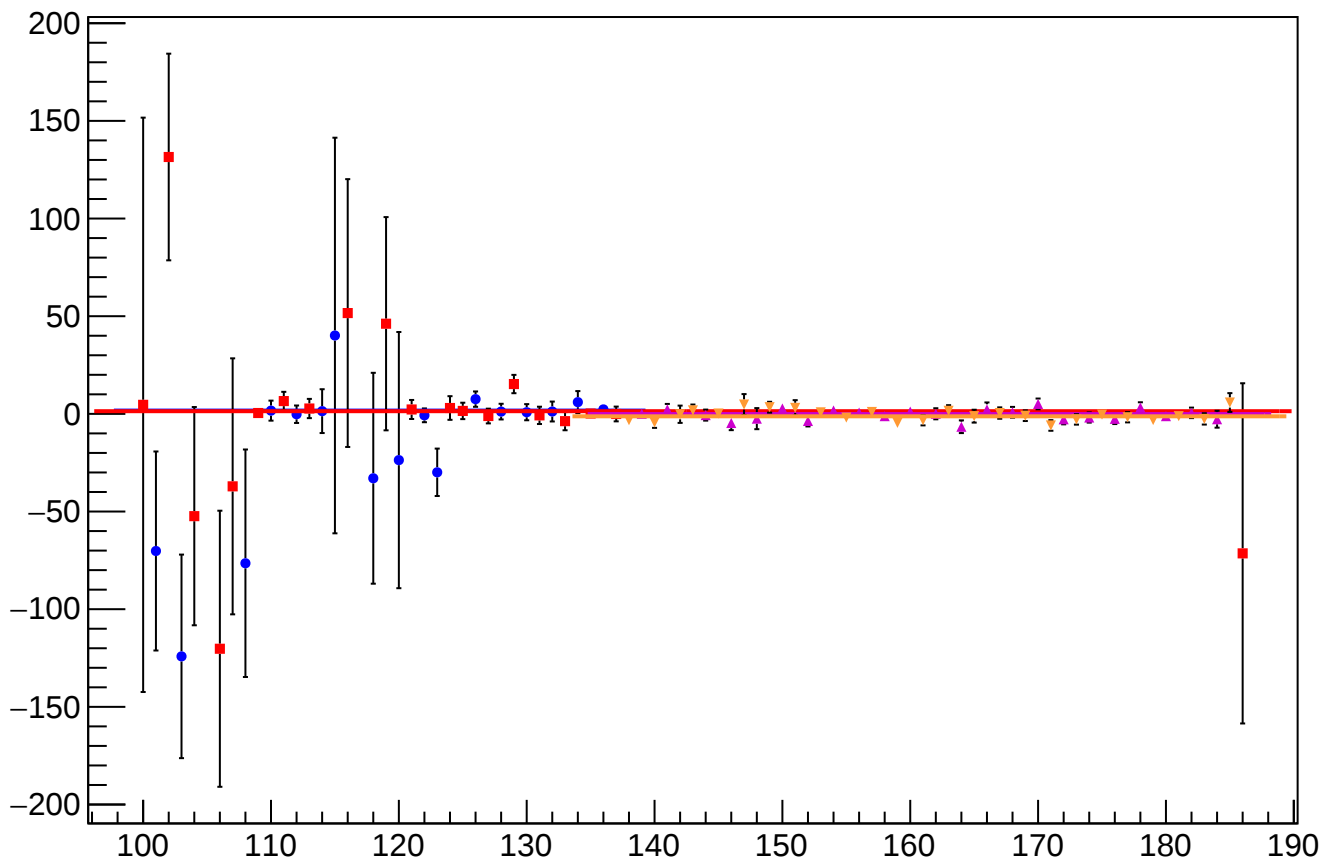
Right: 2569.358+/-0.618 χ^2/NDF : 10456661.1/36

In: 1744.655+/-0.269 χ^2/NDF : 5906260.3/39

Out: 1744.594+/-0.262 χ^2/NDF : 6916464.1/44

All: 1744.623+/-0.188 χ^2/NDF : 12822724.3/80

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.671 ± 1.146 $\chi^2/\text{NDF}: 20.7/16$

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

Right Out: 1.369 ± 1.065 $\chi^2/\text{NDF}: 24.8/19$

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

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

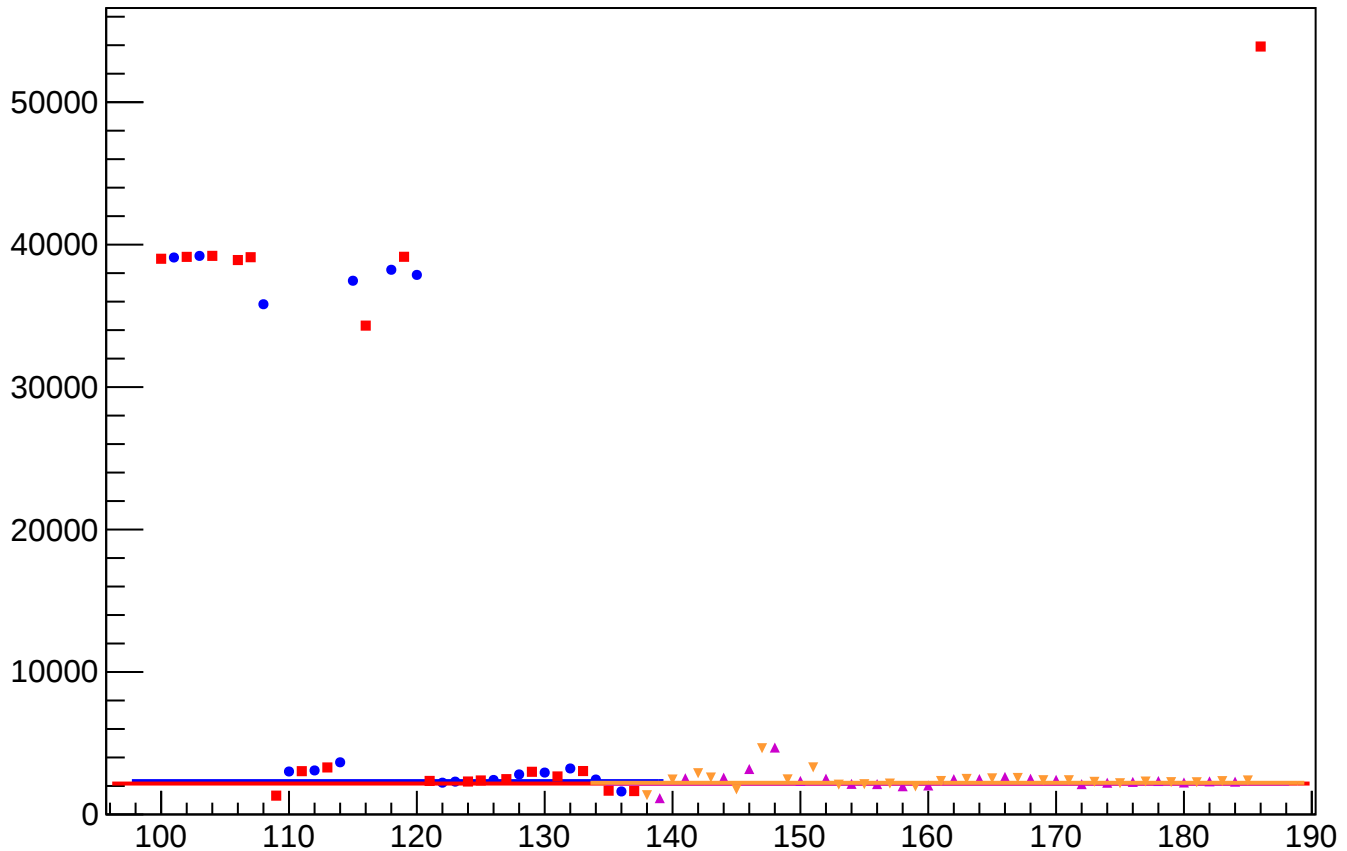
Right: 1.509 ± 0.780 $\chi^2/\text{NDF}: 45.6/36$

In: 0.225 ± 0.489 $\chi^2/\text{NDF}: 42.0/39$

Out: -0.723 ± 0.478 $\chi^2/\text{NDF}: 51.3/44$

All: -0.260 ± 0.342 $\chi^2/\text{NDF}: 95.2/84$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2341.220+/-0.810 χ^2/NDF : 5006482.9/16

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

Right Out: 2168.955+/-0.753 χ^2/NDF : 6007828.0/19

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

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

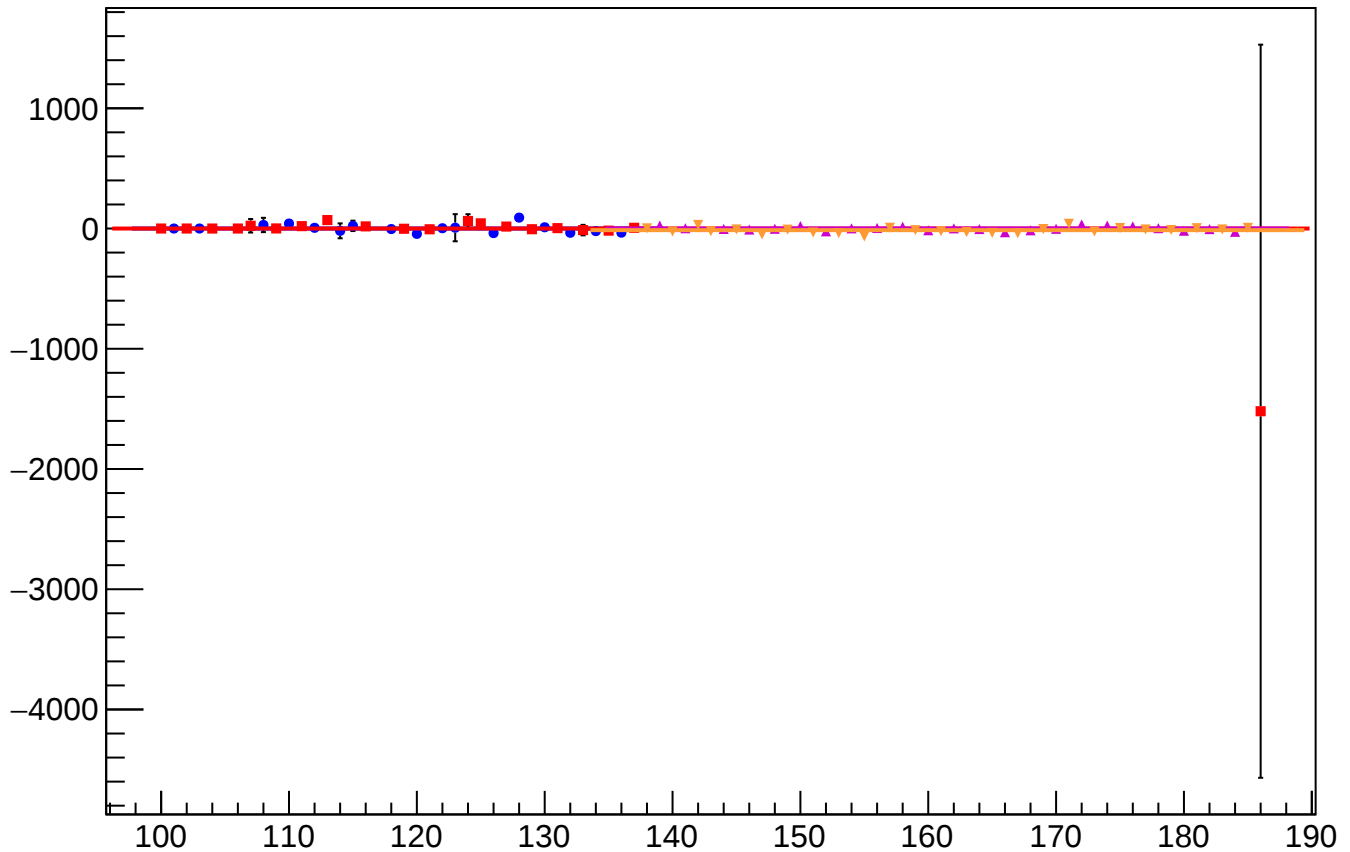
Right: 2248.795+/-0.552 χ^2/NDF : 11038548.7/36

In: 2200.759+/-0.346 χ^2/NDF : 7018083.3/39

Out: 2211.380+/-0.338 χ^2/NDF : 7434240.9/44

All: 2206.193+/-0.242 χ^2/NDF : 14452806.0/80

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 16.6/16$

Left Out: -13.484 ± 2.800 $\chi^2/\text{NDF}: 58.7/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 15.8/19$

Left In: 0.459 ± 2.917 $\chi^2/\text{NDF}: 29.0/22$

Left: -6.796 ± 2.020 $\chi^2/\text{NDF}: 99.5/47$

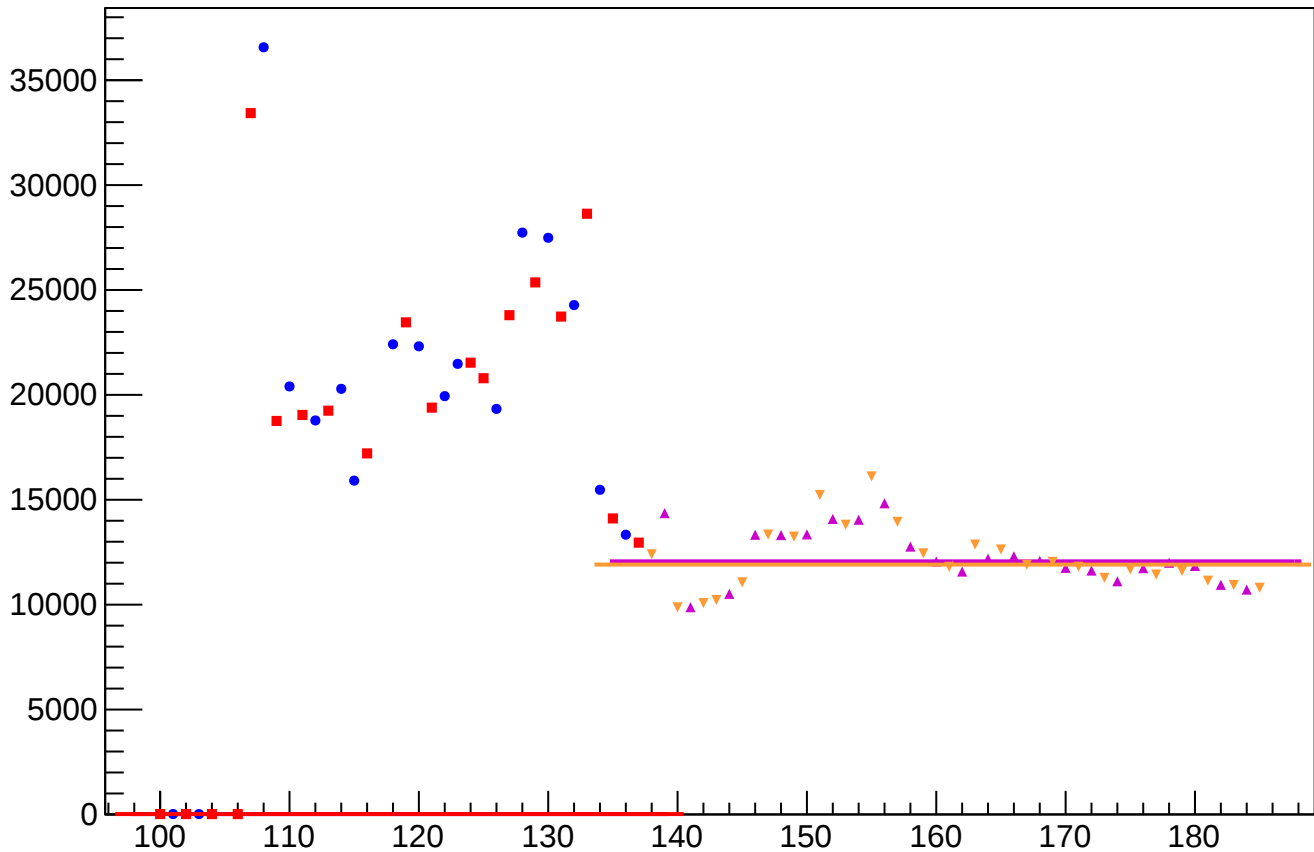
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.9/36$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 45.6/39$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 97.6/44$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 143.7/84$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641+/-0.012 χ^2/NDF : 10941777.3/16

Left Out: 11910.325+/-1.980 χ^2/NDF : 476504.3/24

Right Out: 18.311+/-0.011 χ^2/NDF : 11063399.8/18

Left In: 12064.761+/-2.062 χ^2/NDF : 368452.5/22

Left: 11984.403+/-1.428 χ^2/NDF : 847874.4/47

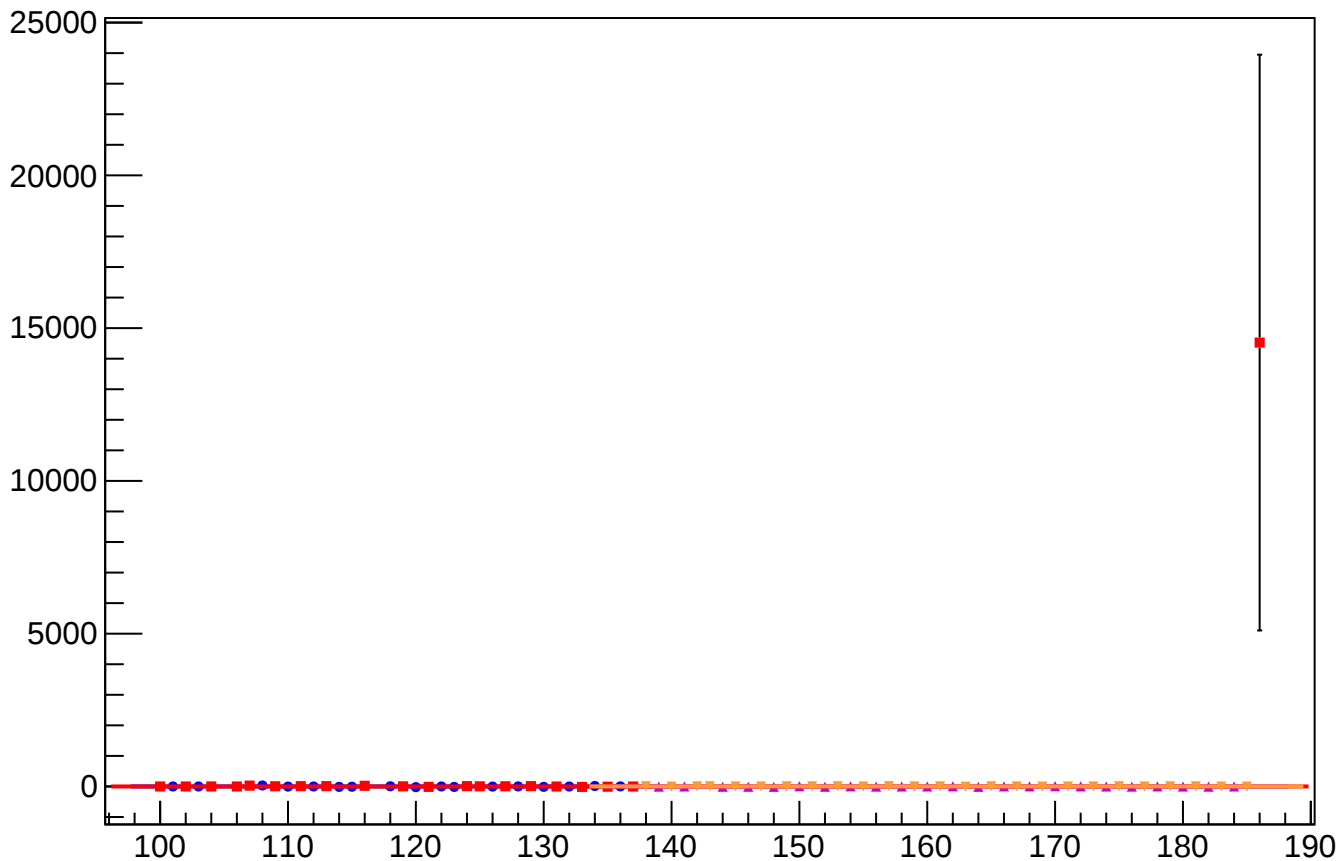
Right: 18.464+/-0.008 χ^2/NDF : 22005567.3/35

In: 19.067+/-0.012 χ^2/NDF : 45424095.9/39

Out: 18.703+/-0.011 χ^2/NDF : 47605245.6/43

All: 18.871+/-0.008 χ^2/NDF : 93029815.5/83

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.009 χ^2/NDF : 12.9/16

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

Right Out: -0.014+/-0.009 χ^2/NDF : 21.1/19

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

Left: 0.388+/-0.732 χ^2/NDF : 57.1/47

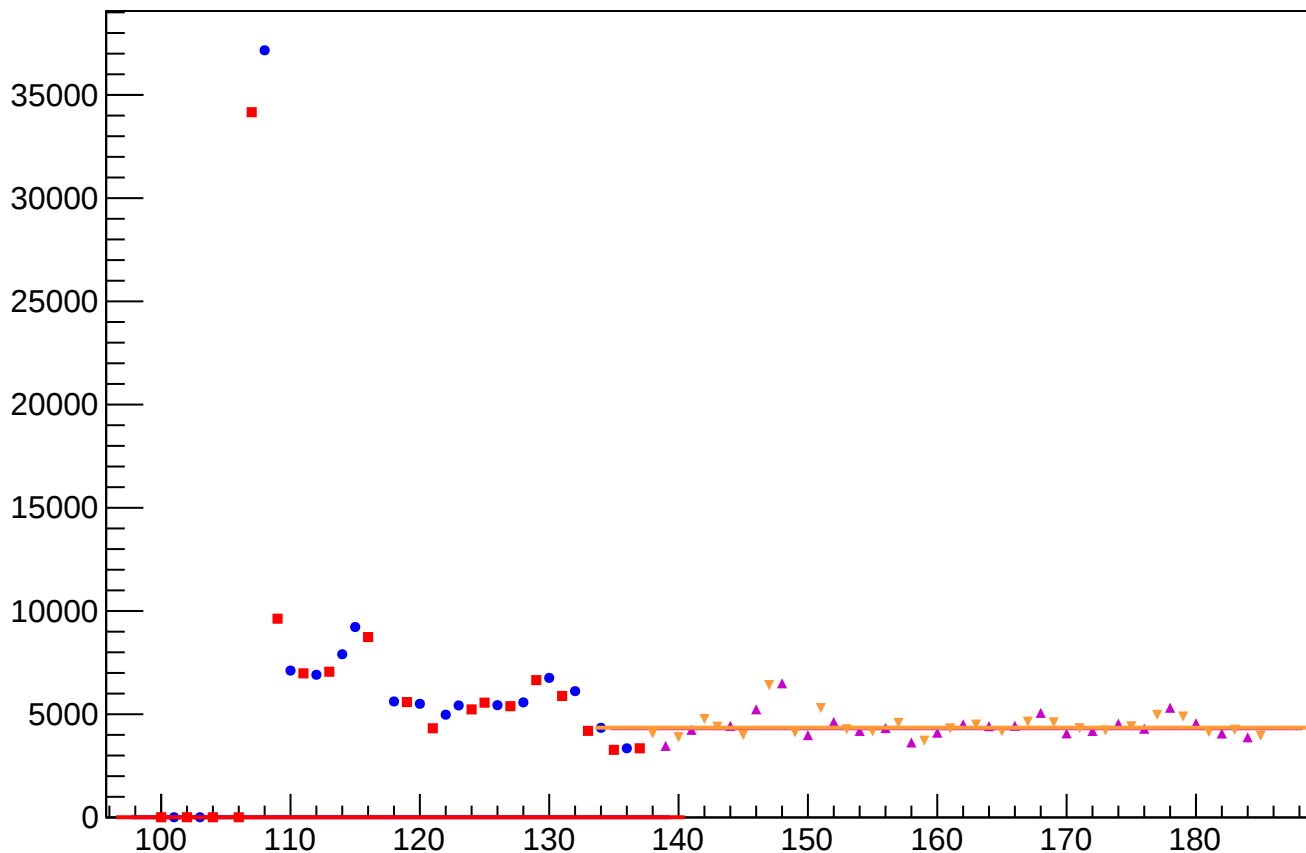
Right: -0.007+/-0.006 χ^2/NDF : 35.4/36

In: 0.001+/-0.009 χ^2/NDF : 49.3/39

Out: -0.014+/-0.009 χ^2/NDF : 42.2/44

All: -0.007+/-0.006 χ^2/NDF : 92.8/84

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939+/-0.007 χ^2/NDF : 11067258.7/16

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

Right Out: 9.854+/-0.006 χ^2/NDF : 11113759.9/18

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

Left: 4335.639+/-0.518 χ^2/NDF : 899200.9/47

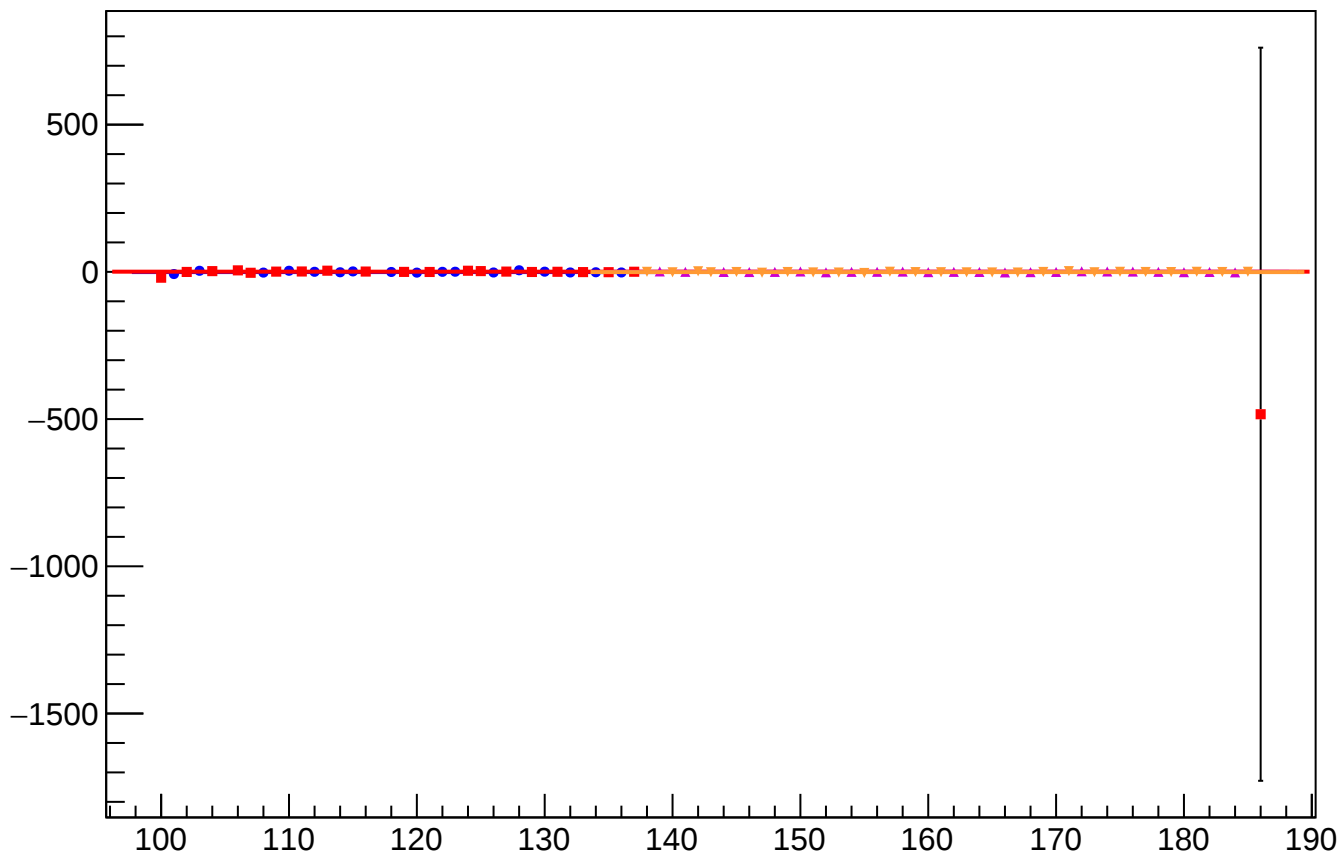
Right: 9.894+/-0.004 χ^2/NDF : 22181108.5/35

In: 10.271+/-0.007 χ^2/NDF : 45399007.8/39

Out: 10.165+/-0.006 χ^2/NDF : 47542935.2/43

All: 10.214+/-0.004 χ^2/NDF : 92942083.6/83

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.713 +/- 0.483 χ^2/NDF : 22.7/16

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

Right Out: 0.638 +/- 0.501 χ^2/NDF : 13.2/19

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

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

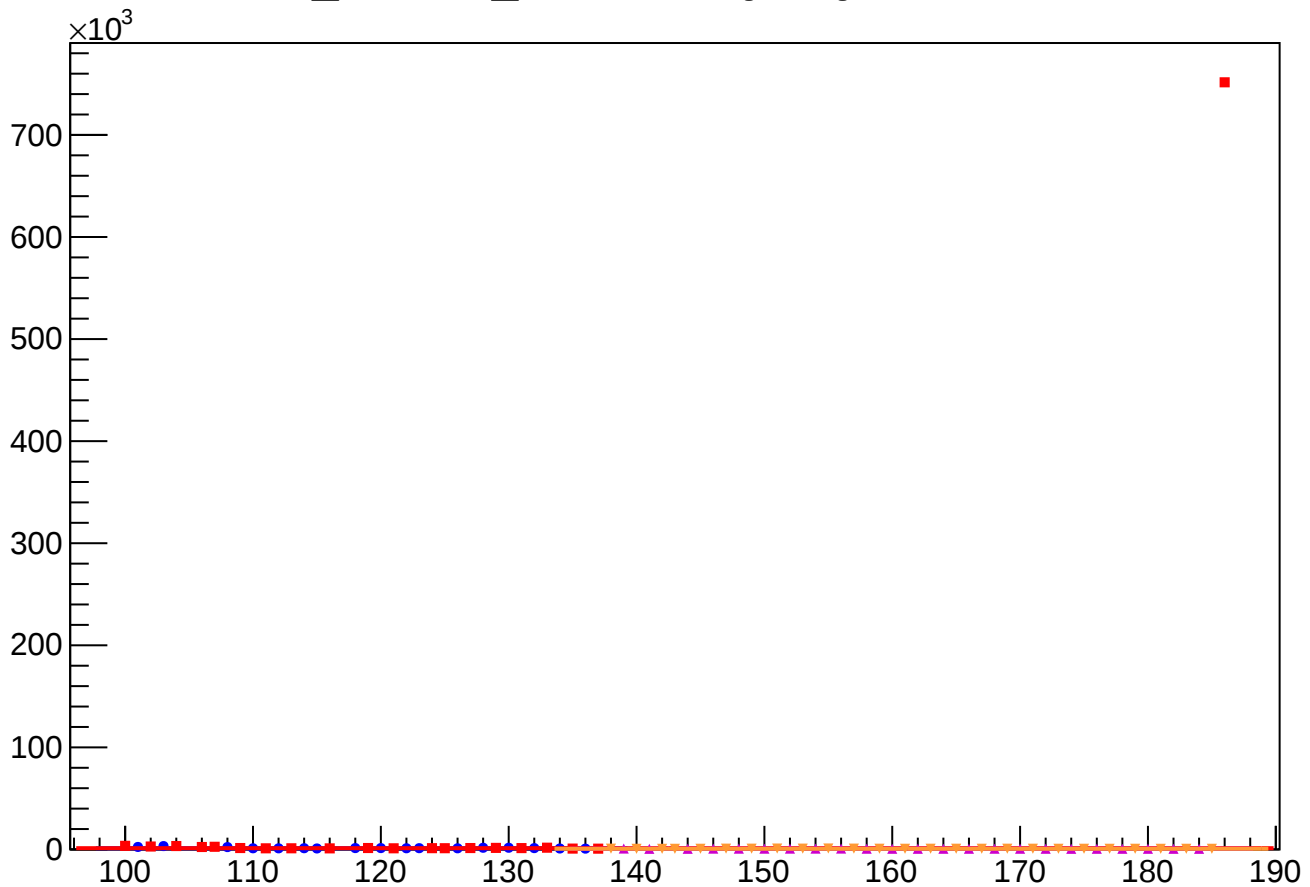
Right: -0.063 +/- 0.348 χ^2/NDF : 39.7/36

In: -0.063 +/- 0.161 χ^2/NDF : 54.2/39

Out: -0.638 +/- 0.156 χ^2/NDF : 78.9/44

All: -0.359 +/- 0.112 χ^2/NDF : 139.6/84

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.121 $\pm$ 0.342 χ^2/NDF : 1580218.1/16

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

Right Out: 1248.031 $\pm$ 0.355 χ^2/NDF : 2346762.6/19

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

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

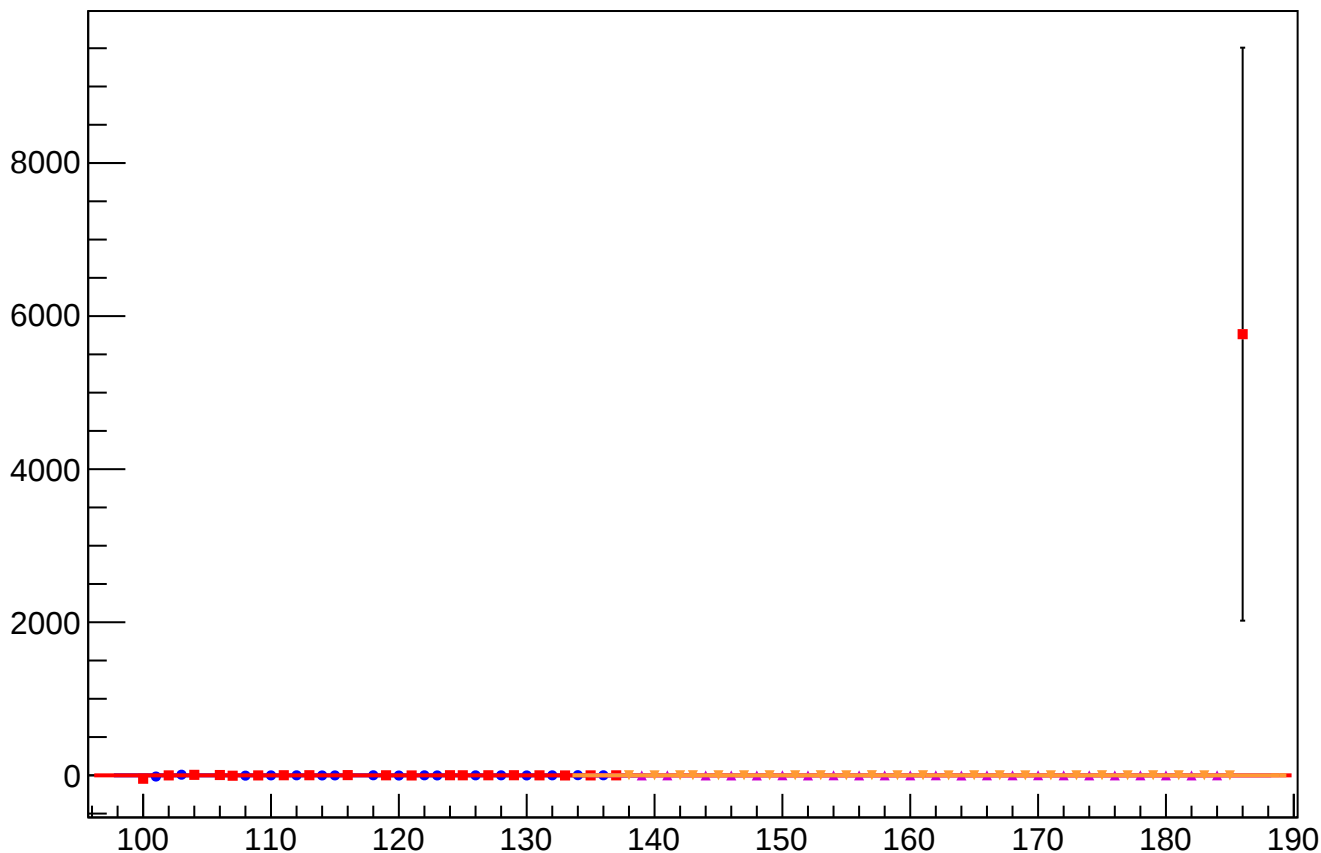
Right: 1206.068 $\pm$ 0.246 χ^2/NDF : 3953982.7/36

In: 758.082 $\pm$ 0.114 χ^2/NDF : 3525025.1/39

Out: 754.174 $\pm$ 0.111 χ^2/NDF : 4888197.2/44

All: 756.071 $\pm$ 0.079 χ^2/NDF : 8413828.7/84

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.269 χ^2/NDF : 19.1/16

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

Right Out: -0.280 ± 0.264 χ^2/NDF : 22.9/19

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

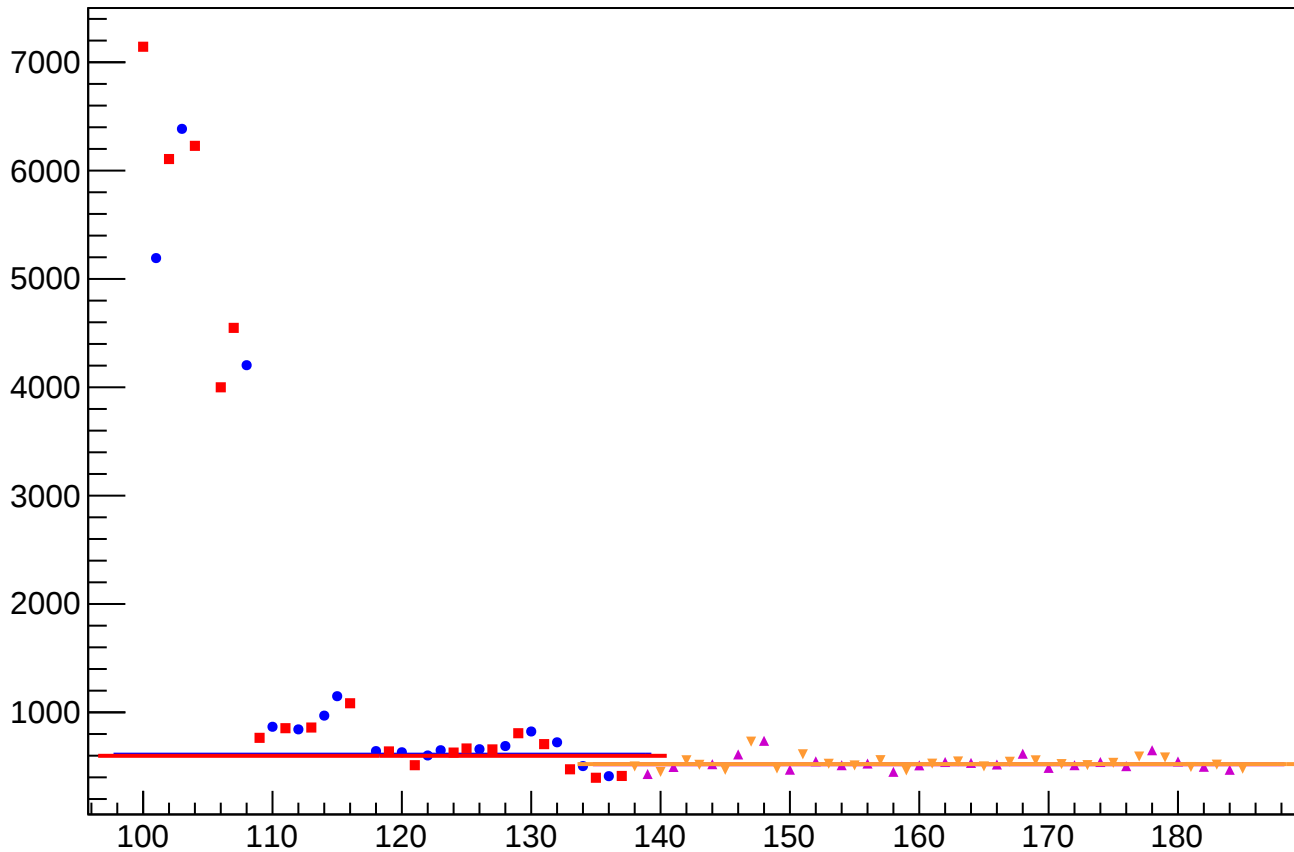
Right: -0.172 ± 0.189 χ^2/NDF : 42.4/36

In: -0.114 ± 0.114 χ^2/NDF : 54.1/39

Out: 0.142 ± 0.111 χ^2/NDF : 44.0/44

All: 0.018 ± 0.080 χ^2/NDF : 100.7/84

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.385 ± 0.190 χ^2/NDF : 3134318.6/16

Left Out: 522.220 ± 0.087 χ^2/NDF : 330405.3/24

Right Out: 598.820 ± 0.187 χ^2/NDF : 3552236.2/18

Left In: 520.700 ± 0.089 χ^2/NDF : 427720.5/22

Left: 521.481 ± 0.062 χ^2/NDF : 758275.0/47

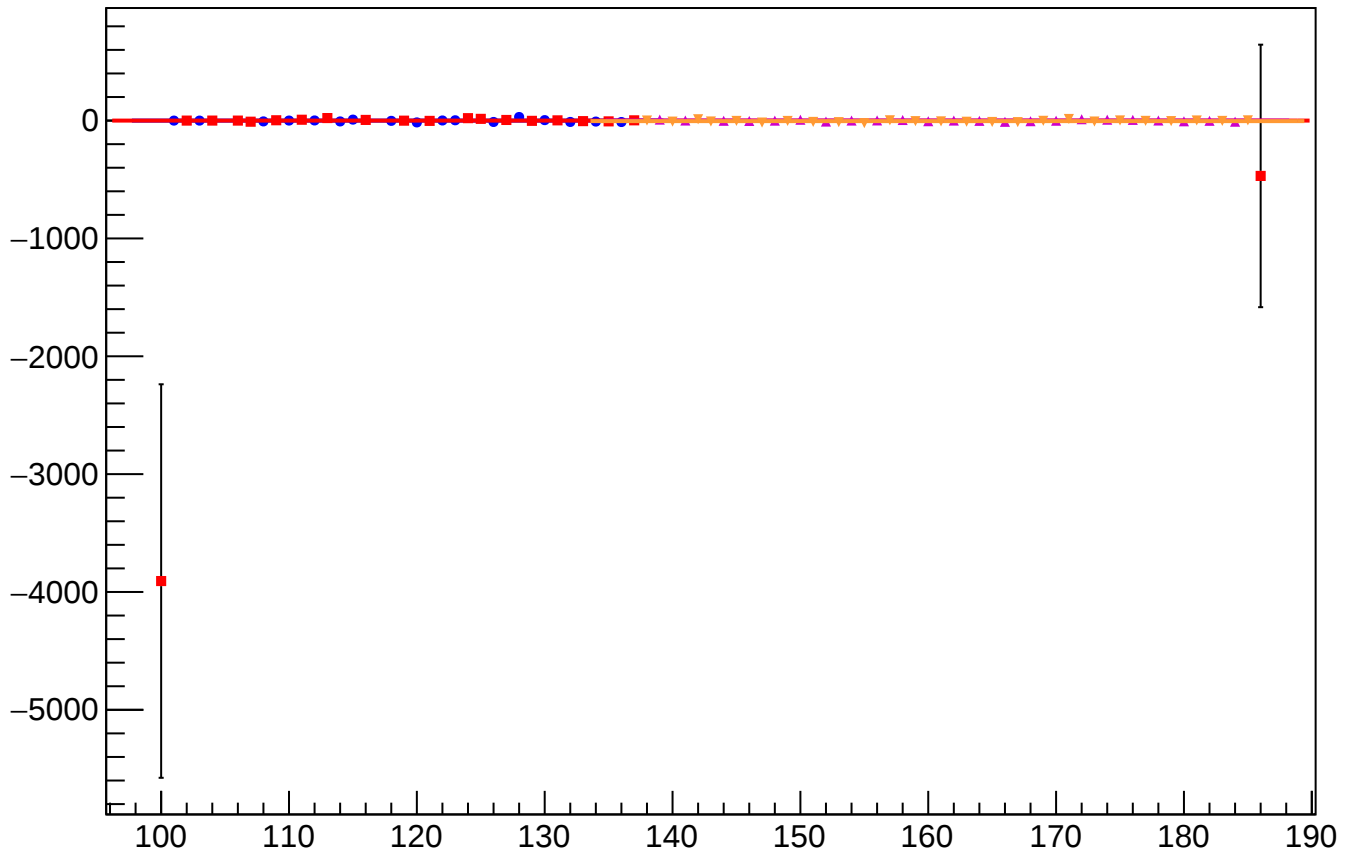
Right: 604.012 ± 0.133 χ^2/NDF : 6688123.9/35

In: 536.687 ± 0.081 χ^2/NDF : 3740237.6/39

Out: 535.774 ± 0.079 χ^2/NDF : 4020784.9/43

All: 536.218 ± 0.056 χ^2/NDF : 7761088.1/83

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.0/16

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 17.6/19

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

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

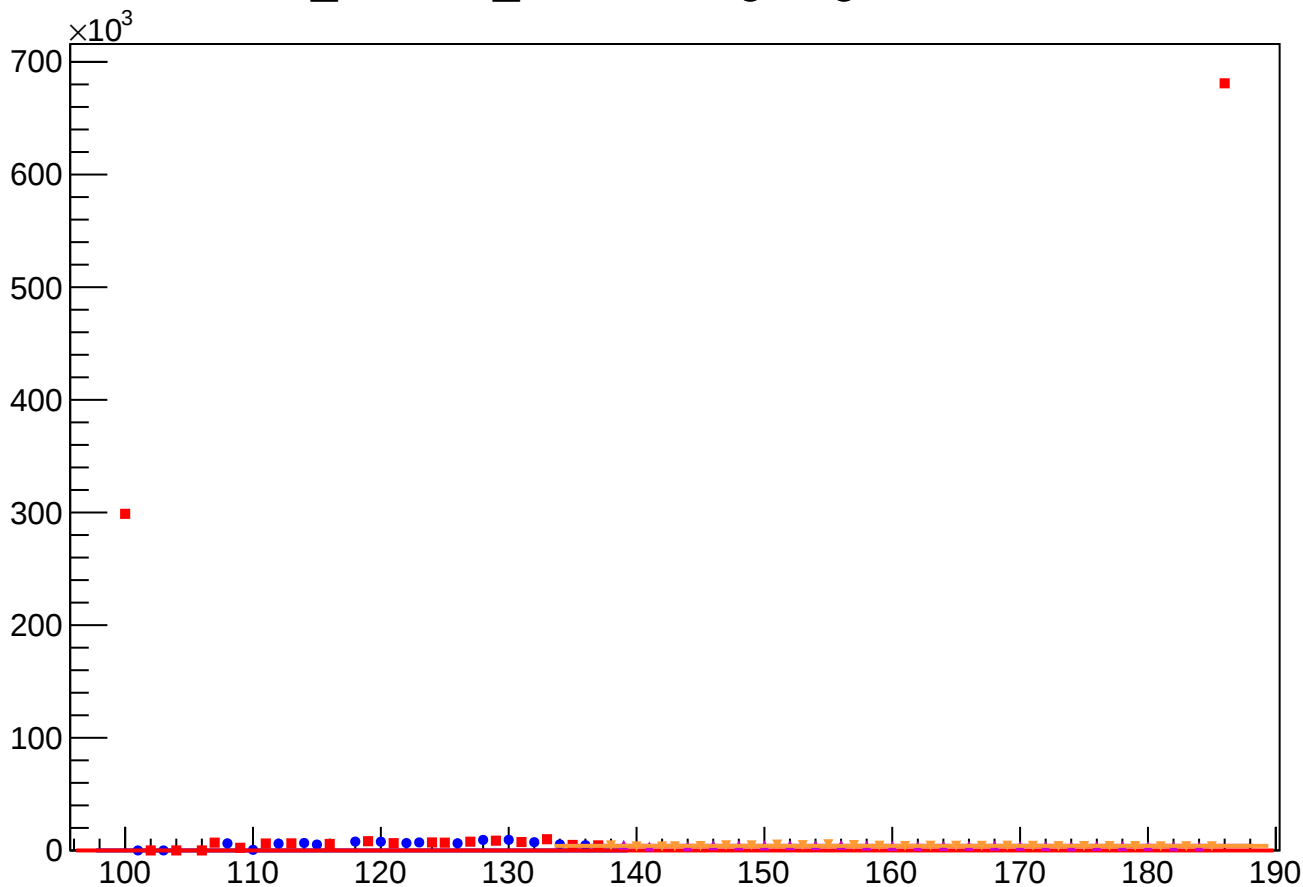
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/36

In: -0.022 ± 0.021 χ^2/NDF : 45.5/39

Out: 0.025 ± 0.020 χ^2/NDF : 98.2/44

All: 0.003 ± 0.014 χ^2/NDF : 146.3/84

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.339 $\pm$ 0.015 χ^2/NDF : 10457335.9/16

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

Right Out: 17.268 $\pm$ 0.014 χ^2/NDF : 11513263.6/19

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

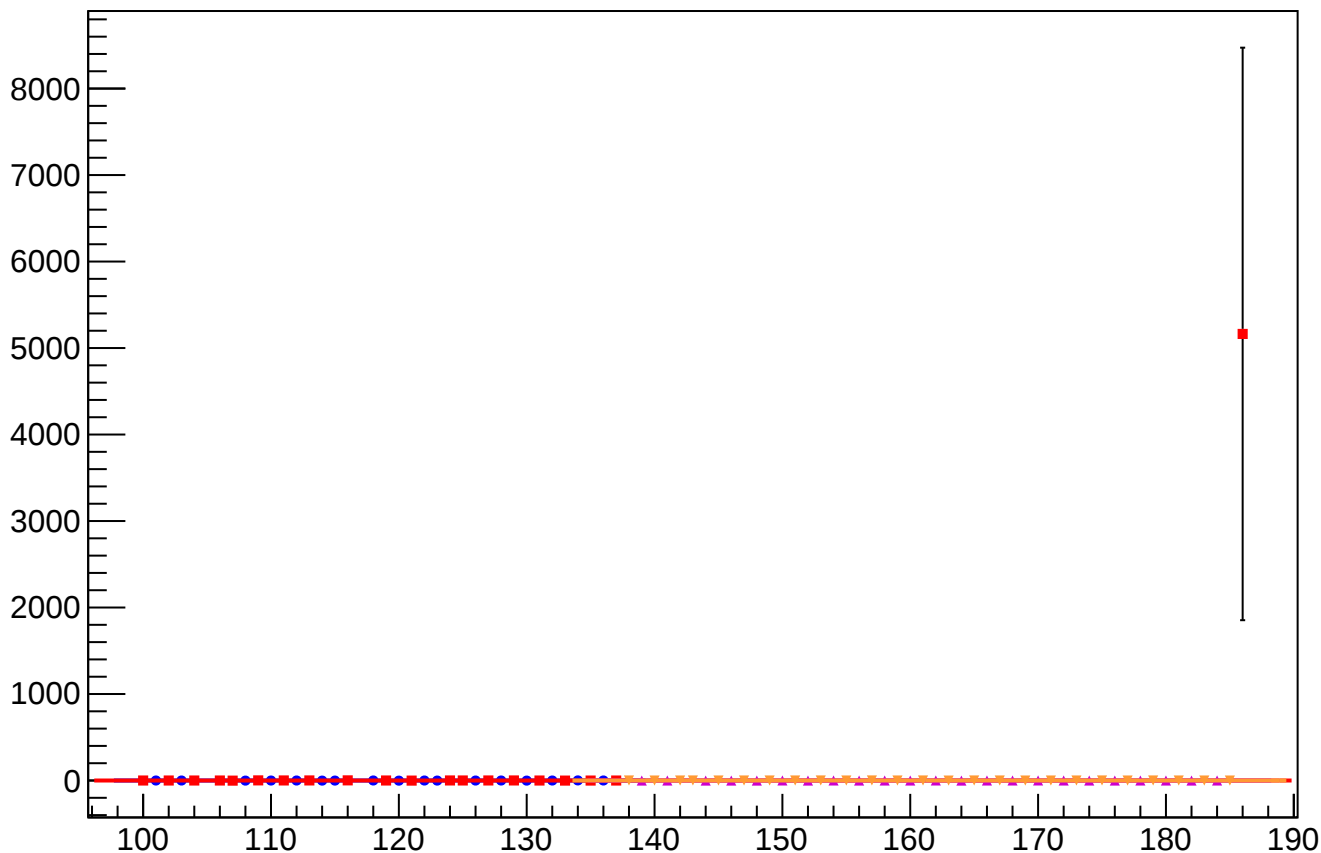
Right: 17.302 $\pm$ 0.010 χ^2/NDF : 21970611.8/36

In: 19.131 $\pm$ 0.015 χ^2/NDF : 44759872.6/39

Out: 18.999 $\pm$ 0.014 χ^2/NDF : 47866318.1/44

All: 19.062 $\pm$ 0.010 χ^2/NDF : 92626232.8/84

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 13.6/16

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 20.6/19

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

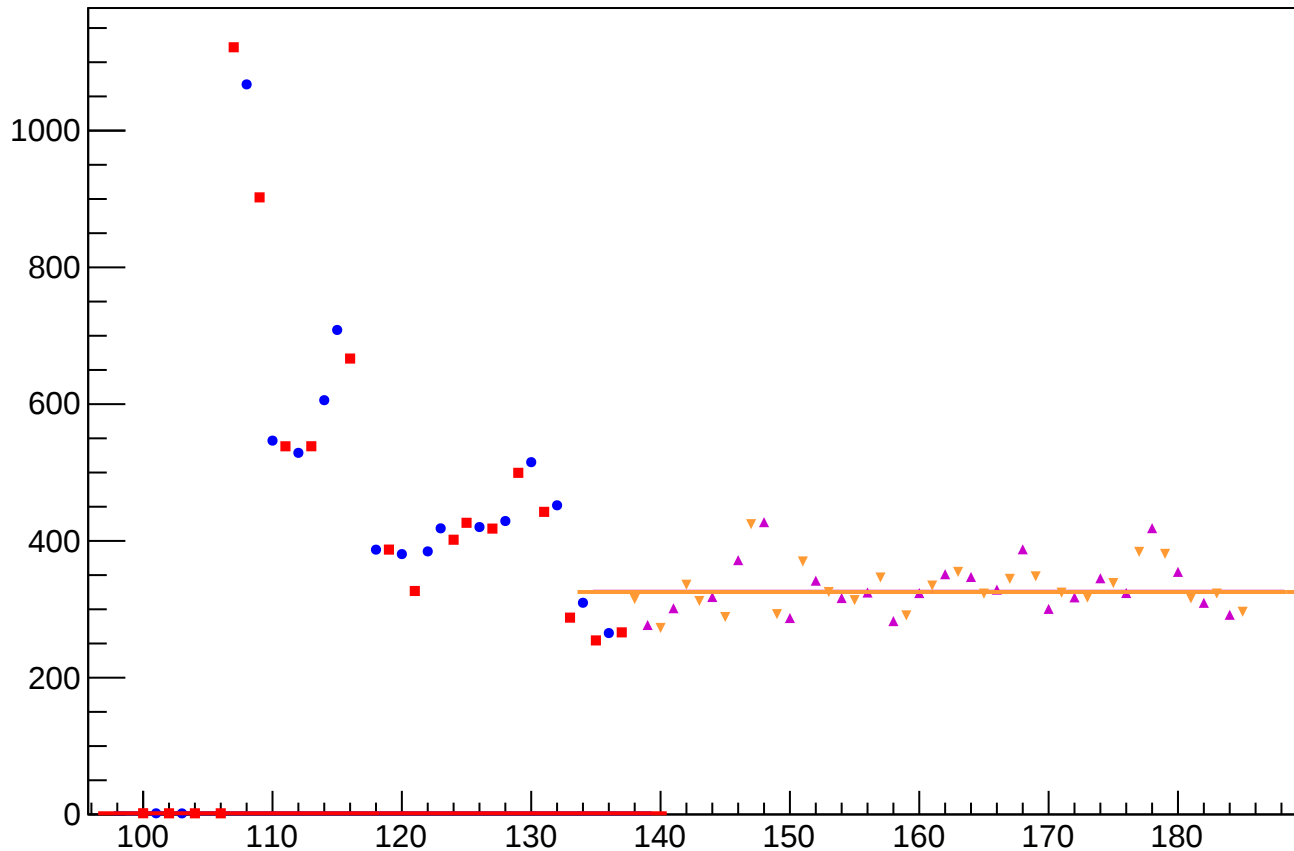
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 34.4/36

In: 0.000 $\pm$ 0.002 χ^2 /NDF: 49.3/39

Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 41.7/44

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 91.1/84

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 ± 0.001 χ^2/NDF : 11006381.5/16

Left Out: 325.326 ± 0.054 χ^2/NDF : 347705.2/24

Right Out: 1.728 ± 0.001 χ^2/NDF : 10697829.6/18

Left In: 325.626 ± 0.056 χ^2/NDF : 413350.0/22

Left: 325.471 ± 0.039 χ^2/NDF : 761070.2/47

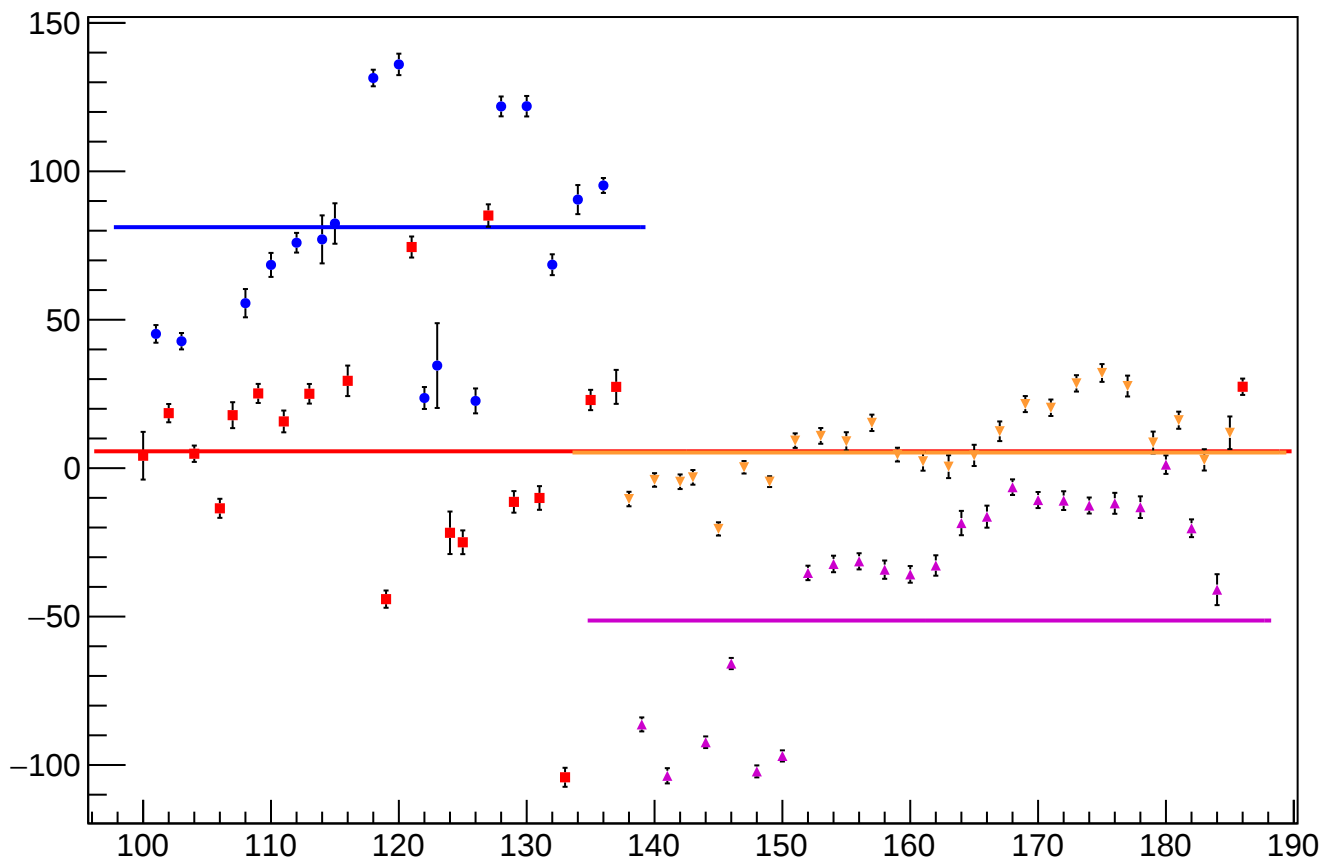
Right: 1.714 ± 0.001 χ^2/NDF : 21704428.1/35

In: 1.912 ± 0.001 χ^2/NDF : 45148541.4/39

Out: 1.936 ± 0.001 χ^2/NDF : 46905365.8/43

All: 1.925 ± 0.001 χ^2/NDF : 92054053.5/83

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.188 ± 0.887 $\chi^2/\text{NDF}: 1718.3/16$

Left Out: 5.276 ± 0.544 $\chi^2/\text{NDF}: 556.2/24$

Right Out: 5.679 ± 0.807 $\chi^2/\text{NDF}: 2661.5/19$

Left In: -51.328 ± 0.558 $\chi^2/\text{NDF}: 4257.8/22$

Left: -22.298 ± 0.390 $\chi^2/\text{NDF}: 10084.6/47$

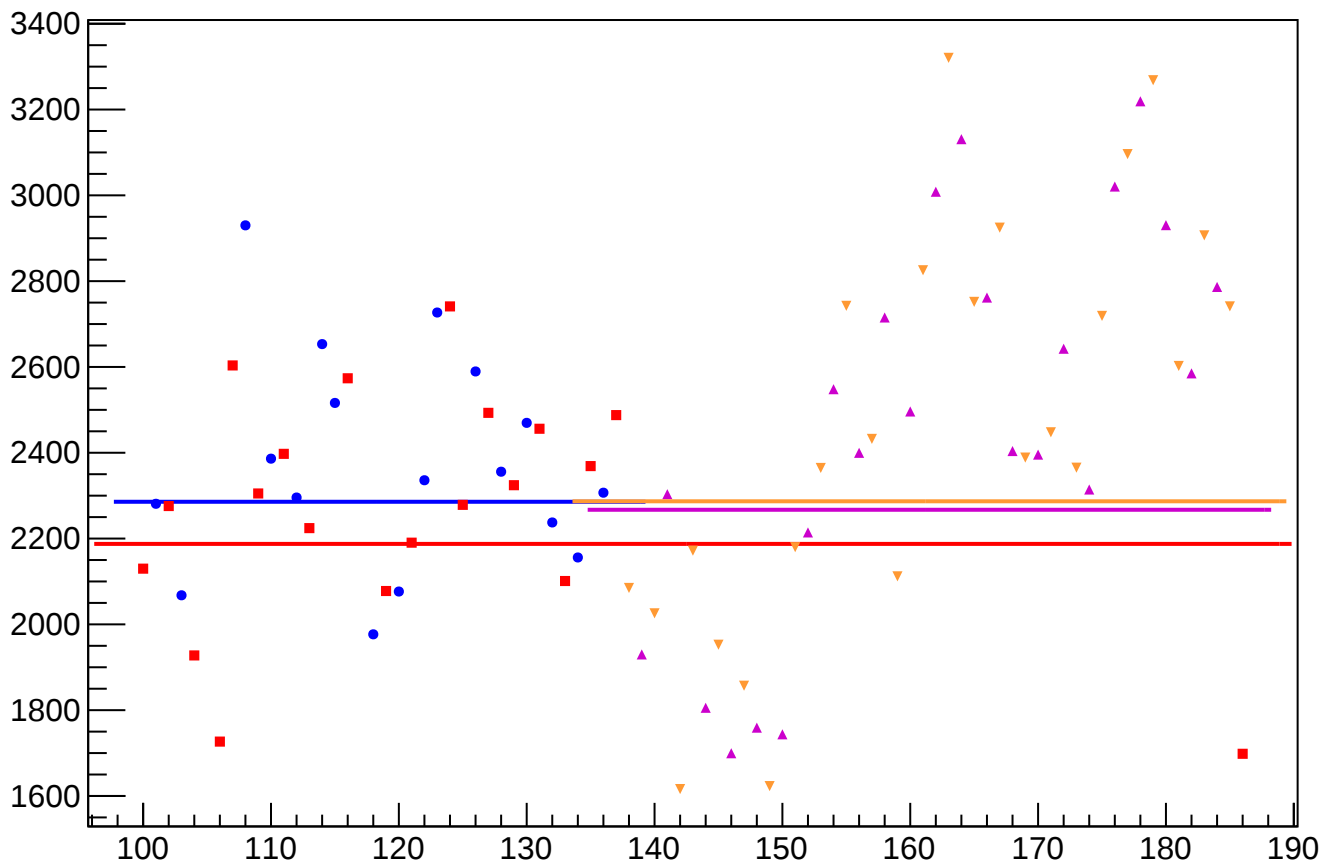
Right: 39.860 ± 0.597 $\chi^2/\text{NDF}: 8344.3/36$

In: -13.732 ± 0.473 $\chi^2/\text{NDF}: 21956.4/39$

Out: 5.402 ± 0.451 $\chi^2/\text{NDF}: 3217.8/44$

All: -3.722 ± 0.326 $\chi^2/\text{NDF}: 26031.9/84$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.757 $\pm$ 0.627 χ^2 /NDF: 109159.1/16

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

Right Out: 2187.554 $\pm$ 0.571 χ^2 /NDF: 216275.6/19

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

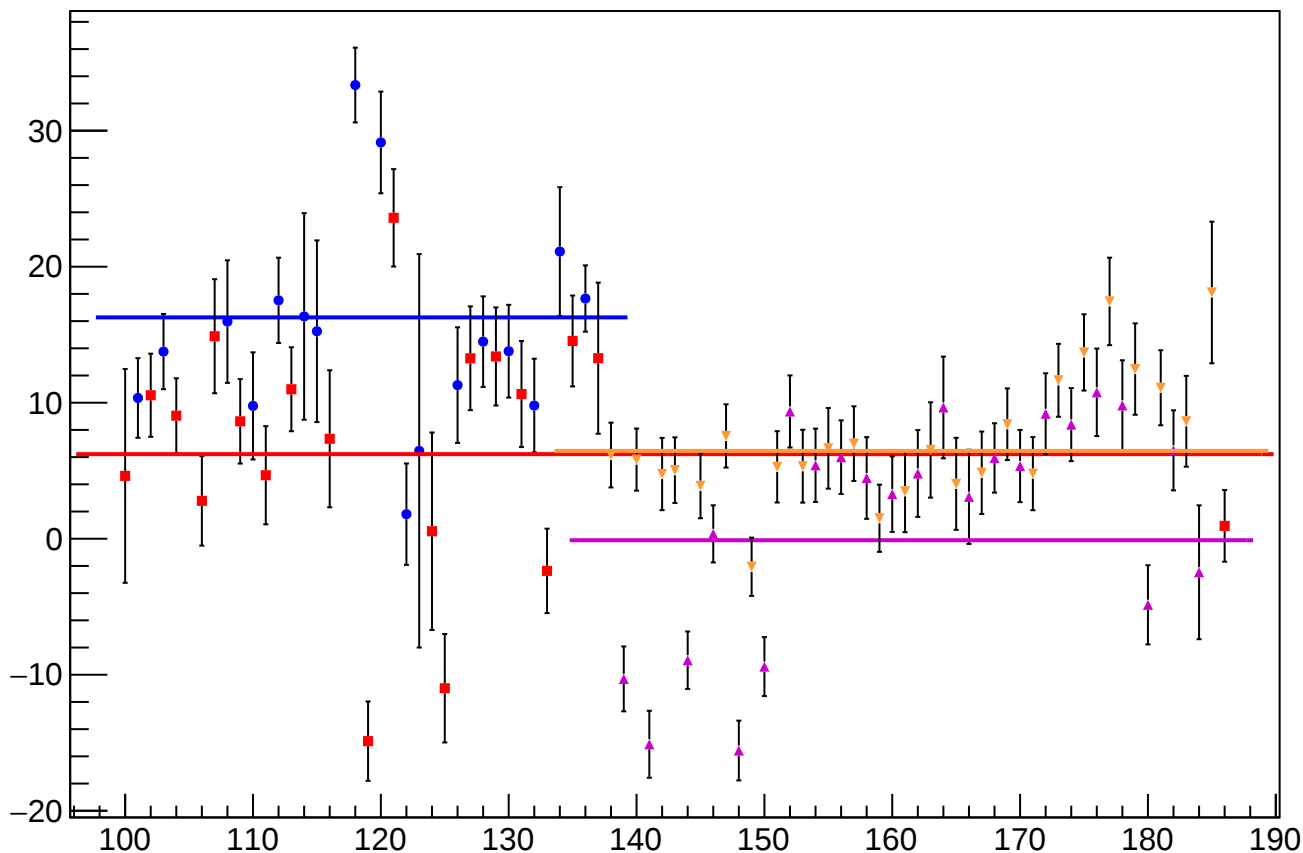
Right: 2232.008 $\pm$ 0.422 χ^2 /NDF: 338846.7/36

In: 2272.391 $\pm$ 0.334 χ^2 /NDF: 1423157.2/39

Out: 2255.818 $\pm$ 0.319 χ^2 /NDF: 1597596.0/44

All: 2263.721 $\pm$ 0.231 χ^2 /NDF: 3022040.1/84

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.273 $\pm$ 0.873 χ^2 /NDF: 81.0/16

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

Right Out: 6.219 $\pm$ 0.794 χ^2 /NDF: 134.9/19

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

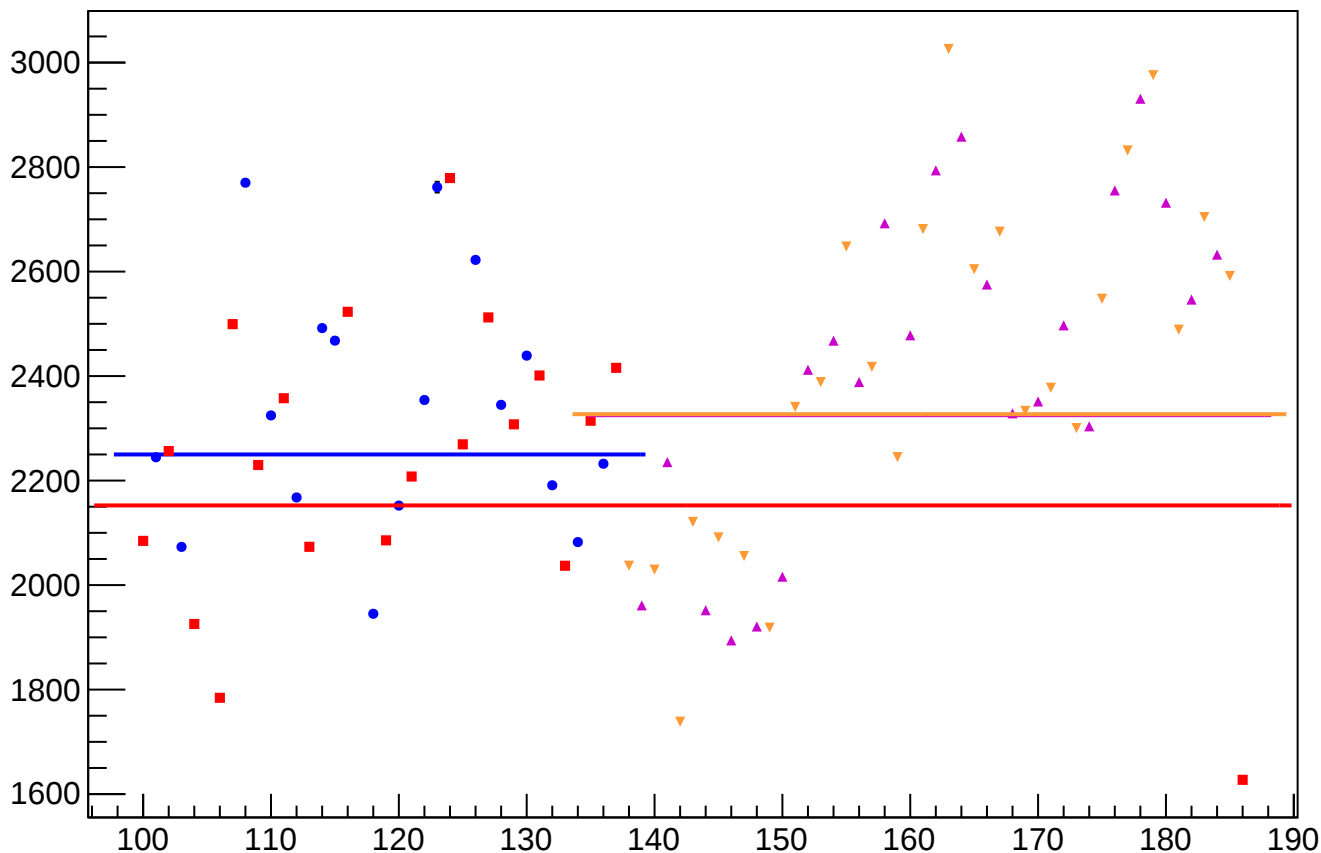
Right: 10.768 $\pm$ 0.587 χ^2 /NDF: 288.5/36

In: 4.728 $\pm$ 0.474 χ^2 /NDF:563.7/39

Out: 6.381 $\pm$ 0.451 χ^2 /NDF:193.7/44

All: 5.597 $\pm$ 0.327 χ^2 /NDF: 763.8/84

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2249.997 +/- 0.617 χ^2/NDF : 97501.6/16

Left Out: 2327.044 +/- 0.387 χ^2/NDF : 646706.7/24

Right Out: 2152.466 +/- 0.561 χ^2/NDF : 213824.0/19

Left In: 2325.175 +/- 0.400 χ^2/NDF : 610729.2/22

Left: 2326.139 +/- 0.278 χ^2/NDF : 1257447.2/47

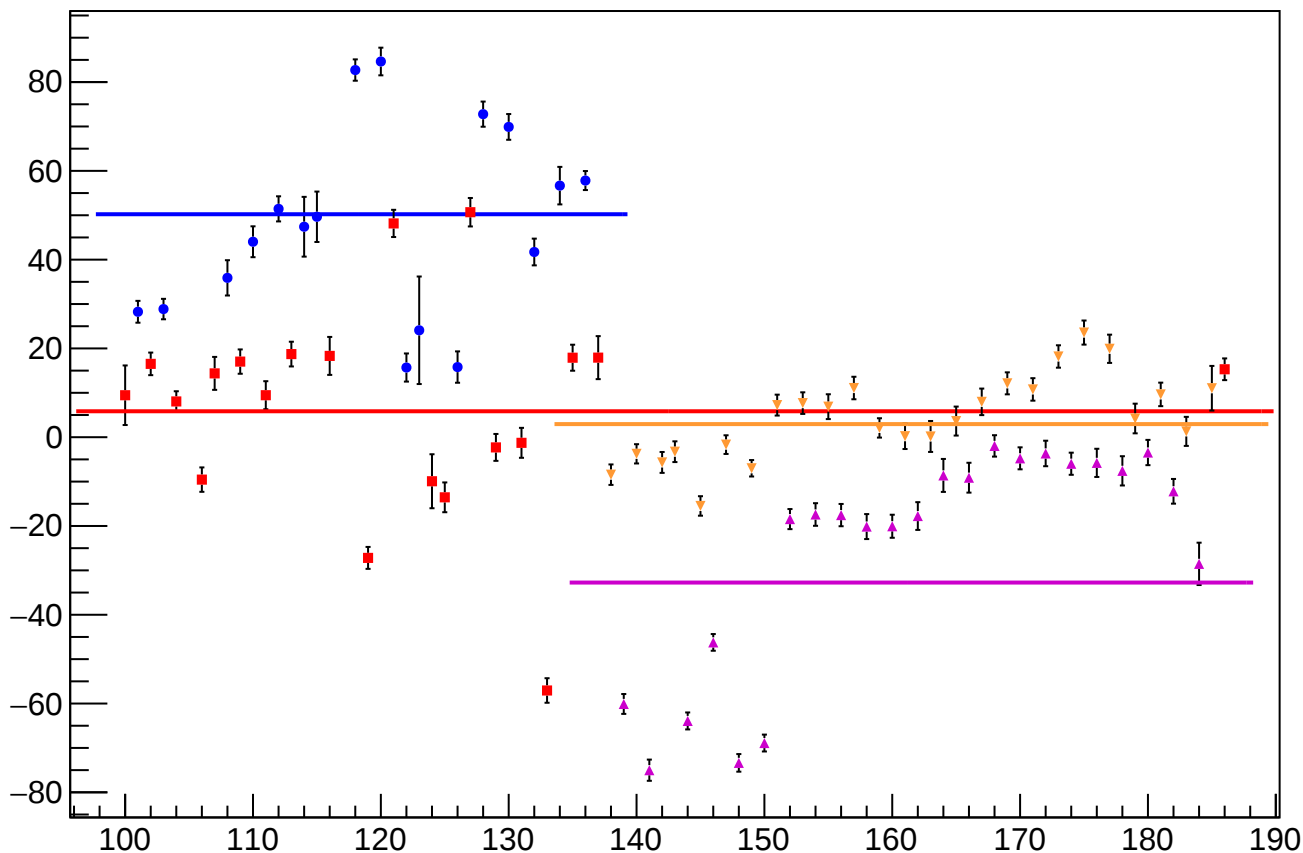
Right: 2196.593 +/- 0.415 χ^2/NDF : 324994.9/36

In: 2302.972 +/- 0.335 χ^2/NDF : 718683.1/39

Out: 2270.733 +/- 0.319 χ^2/NDF : 926108.1/44

All: 2286.026 +/- 0.231 χ^2/NDF : 1649645.9/84

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.230+/-0.752 χ^2/NDF : 837.5/16

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

Right Out: 5.842+/-0.686 χ^2/NDF : 1275.6/19

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

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

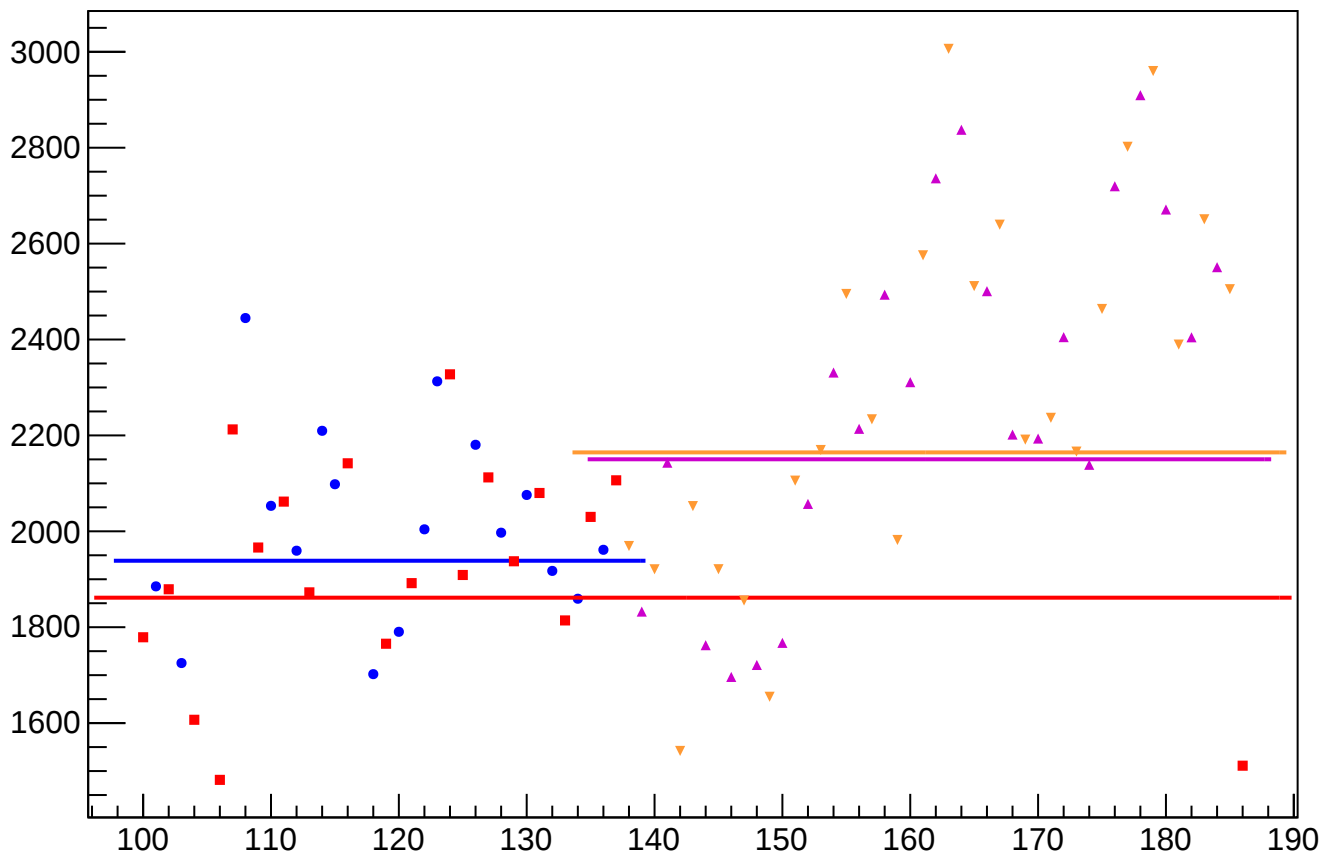
Right: 26.000+/-0.507 χ^2/NDF : 4014.7/36

In: -5.481+/-0.431 χ^2/NDF : 11643.0/39

Out: 3.986+/-0.410 χ^2/NDF : 1624.8/44

All: -0.513+/-0.297 χ^2/NDF : 13520.8/84

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.613 ± 0.532 $\chi^2/\text{NDF}: 100004.8/16$

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

Right Out: 1861.568 ± 0.485 $\chi^2/\text{NDF}: 191247.2/19$

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

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

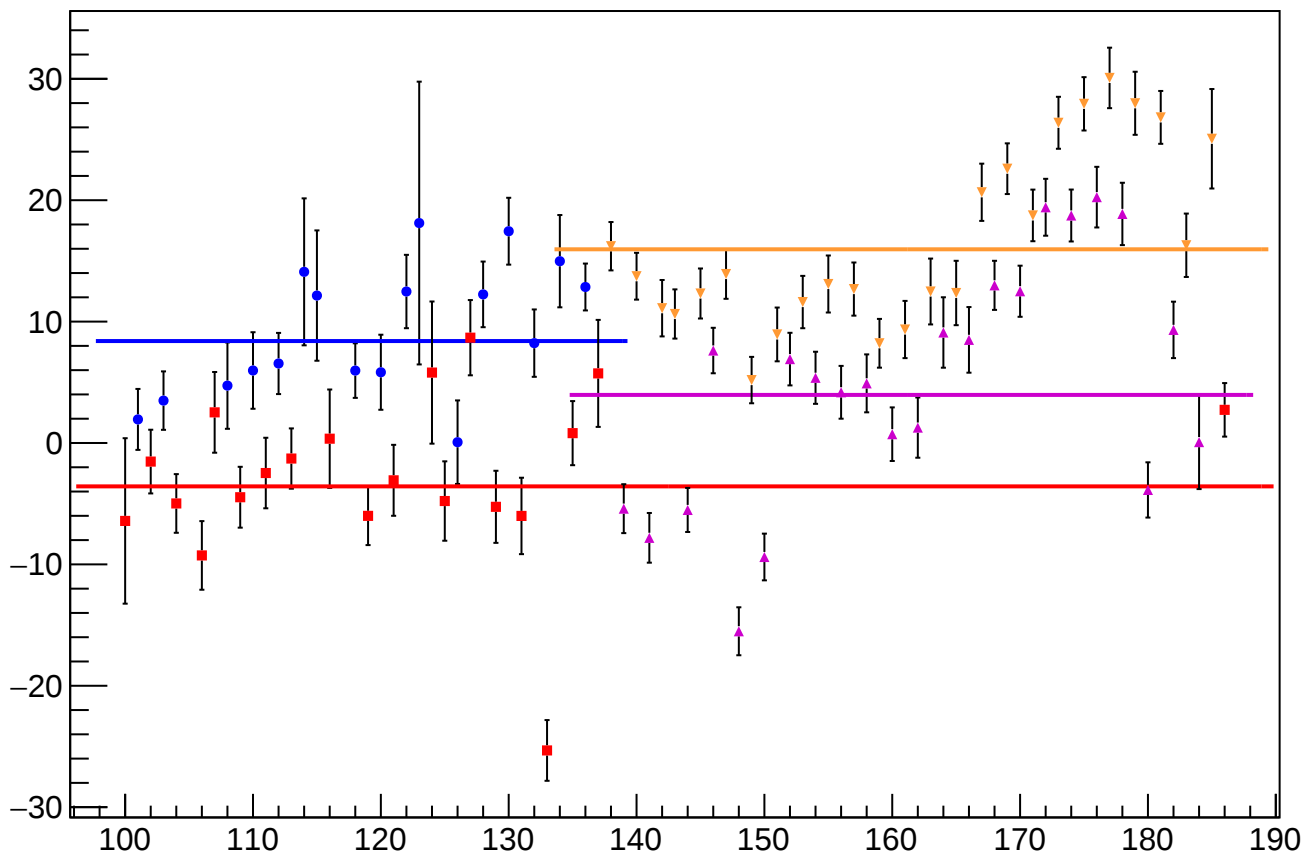
Right: 1896.556 ± 0.358 $\chi^2/\text{NDF}: 302710.0/36$

In: 2080.668 ± 0.305 $\chi^2/\text{NDF}: 1118133.8/39$

Out: 2056.179 ± 0.290 $\chi^2/\text{NDF}: 1407502.3/44$

All: 2067.818 ± 0.210 $\chi^2/\text{NDF}: 2529022.5/84$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.398 ± 0.712 χ^2/NDF : 45.7/16

Left Out: 15.956 ± 0.447 χ^2/NDF : 245.2/24

Right Out: -3.574 ± 0.653 χ^2/NDF : 121.9/19

Left In: 3.960 ± 0.463 χ^2/NDF : 464.9/22

Left: 10.161 ± 0.322 χ^2/NDF : 1057.3/47

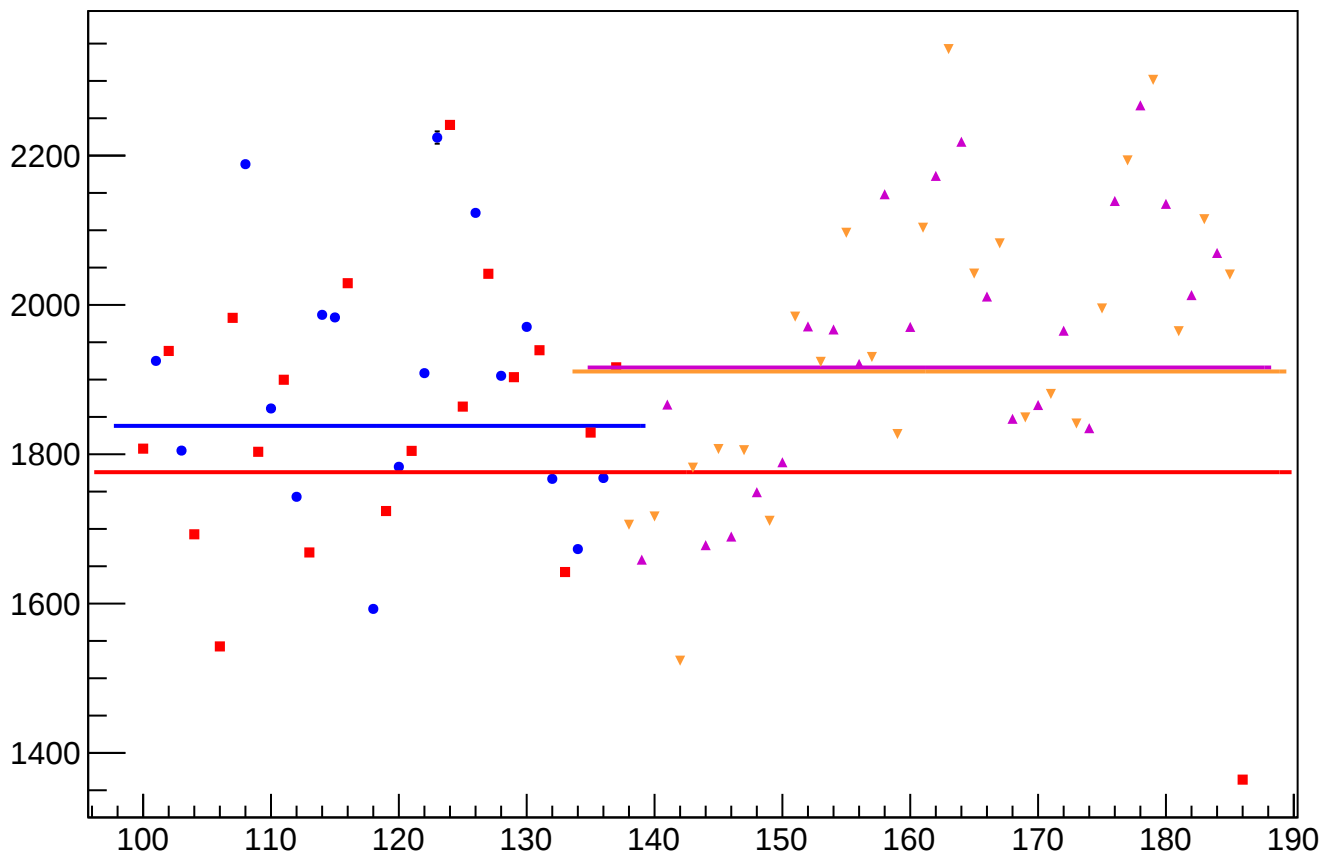
Right: 1.891 ± 0.481 χ^2/NDF : 321.1/36

In: 5.277 ± 0.388 χ^2/NDF : 537.9/39

Out: 9.716 ± 0.369 χ^2/NDF : 975.9/44

All: 7.608 ± 0.267 χ^2/NDF : 1582.5/84

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.009 ± 0.504 $\chi^2/\text{NDF}: 82831.2/16$

Left Out: 1910.859 ± 0.316 $\chi^2/\text{NDF}: 328970.6/24$

Right Out: 1775.996 ± 0.462 $\chi^2/\text{NDF}: 164073.8/19$

Left In: 1916.159 ± 0.327 $\chi^2/\text{NDF}: 274285.3/22$

Left: 1913.419 ± 0.227 $\chi^2/\text{NDF}: 603391.5/47$

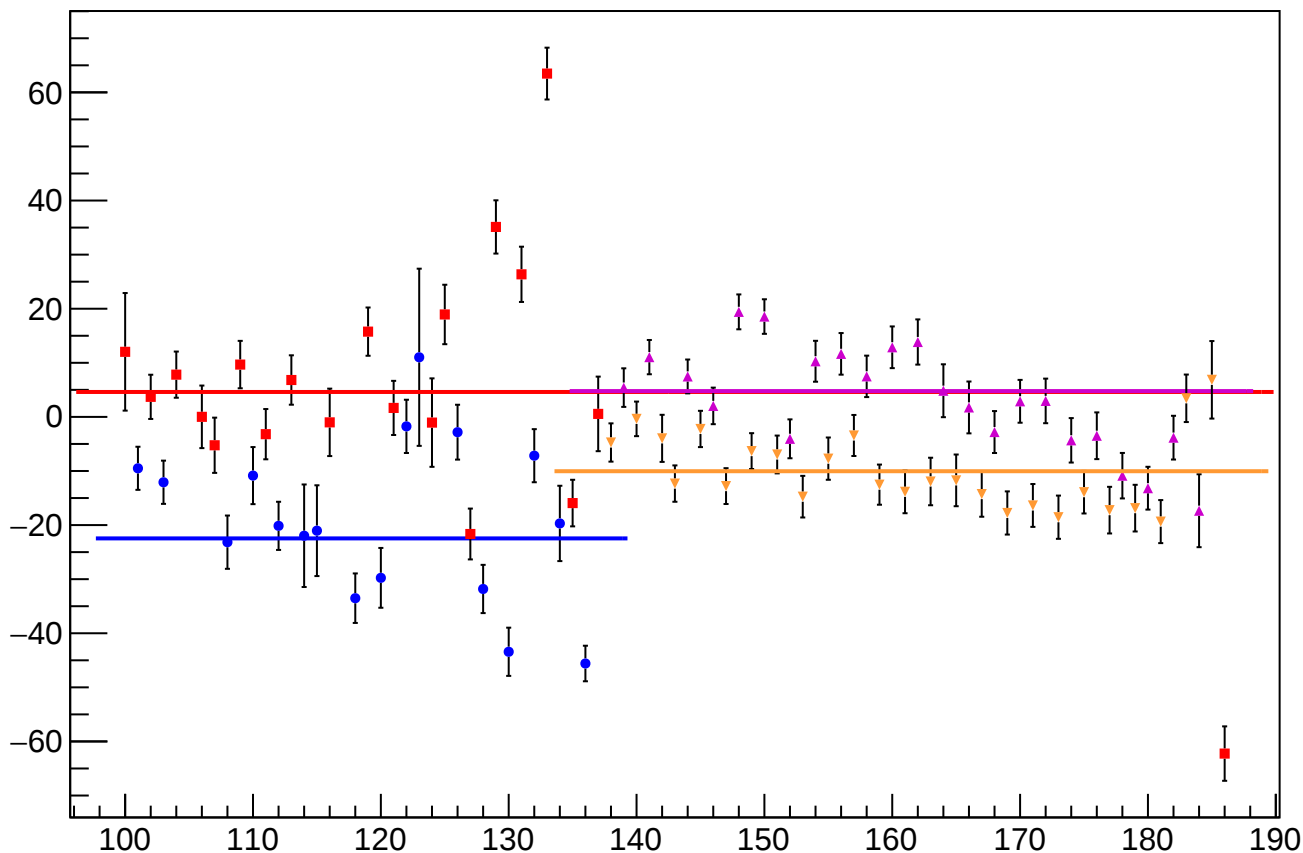
Right: 1804.306 ± 0.340 $\chi^2/\text{NDF}: 255140.8/36$

In: 1892.965 ± 0.274 $\chi^2/\text{NDF}: 374040.6/39$

Out: 1867.769 ± 0.261 $\chi^2/\text{NDF}: 551105.7/44$

All: 1879.734 ± 0.189 $\chi^2/\text{NDF}: 929572.3/84$

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.463 ± 1.197 χ^2/NDF : 152.8/16

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

Right Out: 4.609 ± 1.129 χ^2/NDF : 462.8/19

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

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

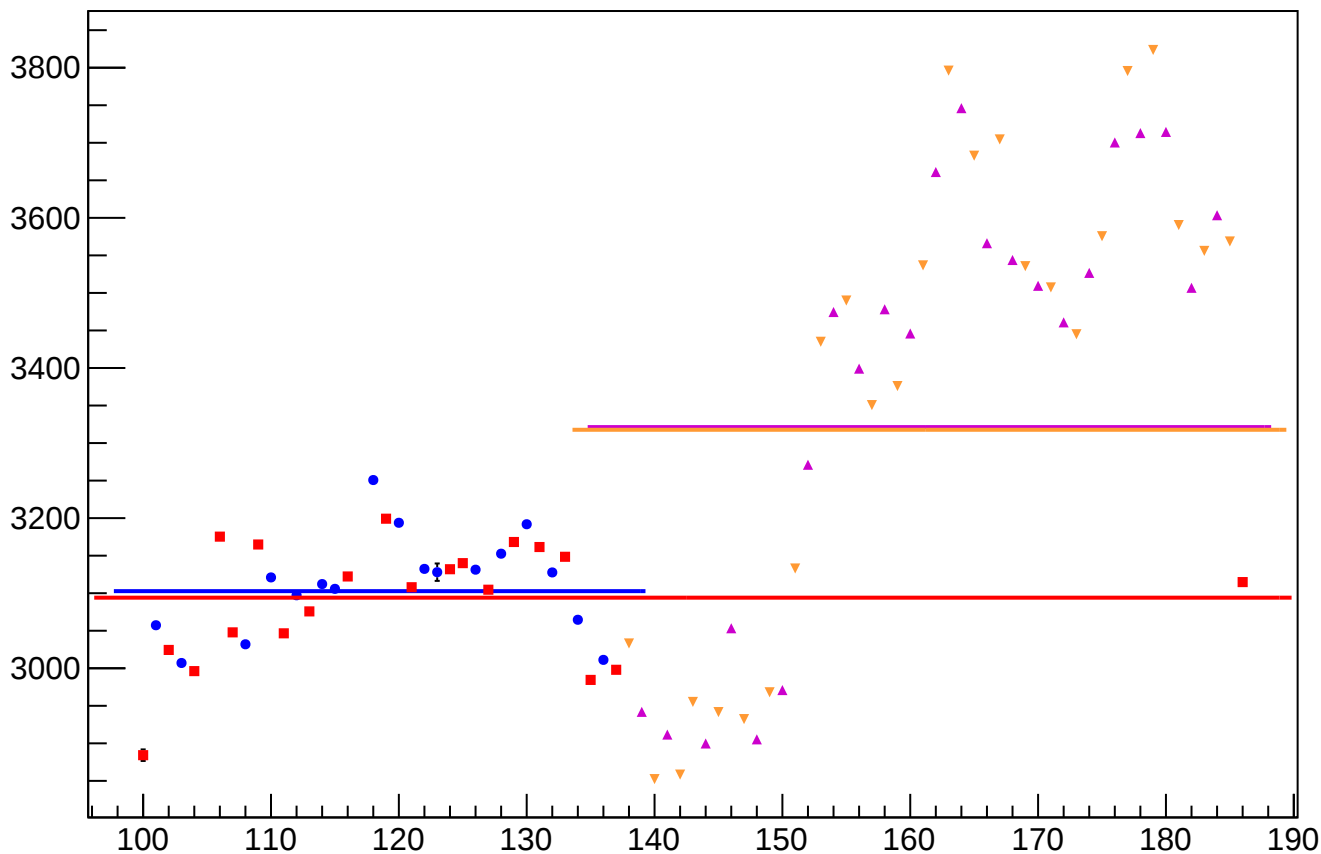
Right: -8.138 ± 0.821 χ^2/NDF : 886.4/36

In: -3.645 ± 0.665 χ^2/NDF : 639.2/39

Out: -5.338 ± 0.640 χ^2/NDF : 644.3/44

All: -4.525 ± 0.461 χ^2/NDF : 1286.9/84

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.744 $\pm$ 0.846 χ^2 /NDF: 7337.7/16

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

Right Out: 3094.054 $\pm$ 0.798 χ^2 /NDF: 7838.4/19

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

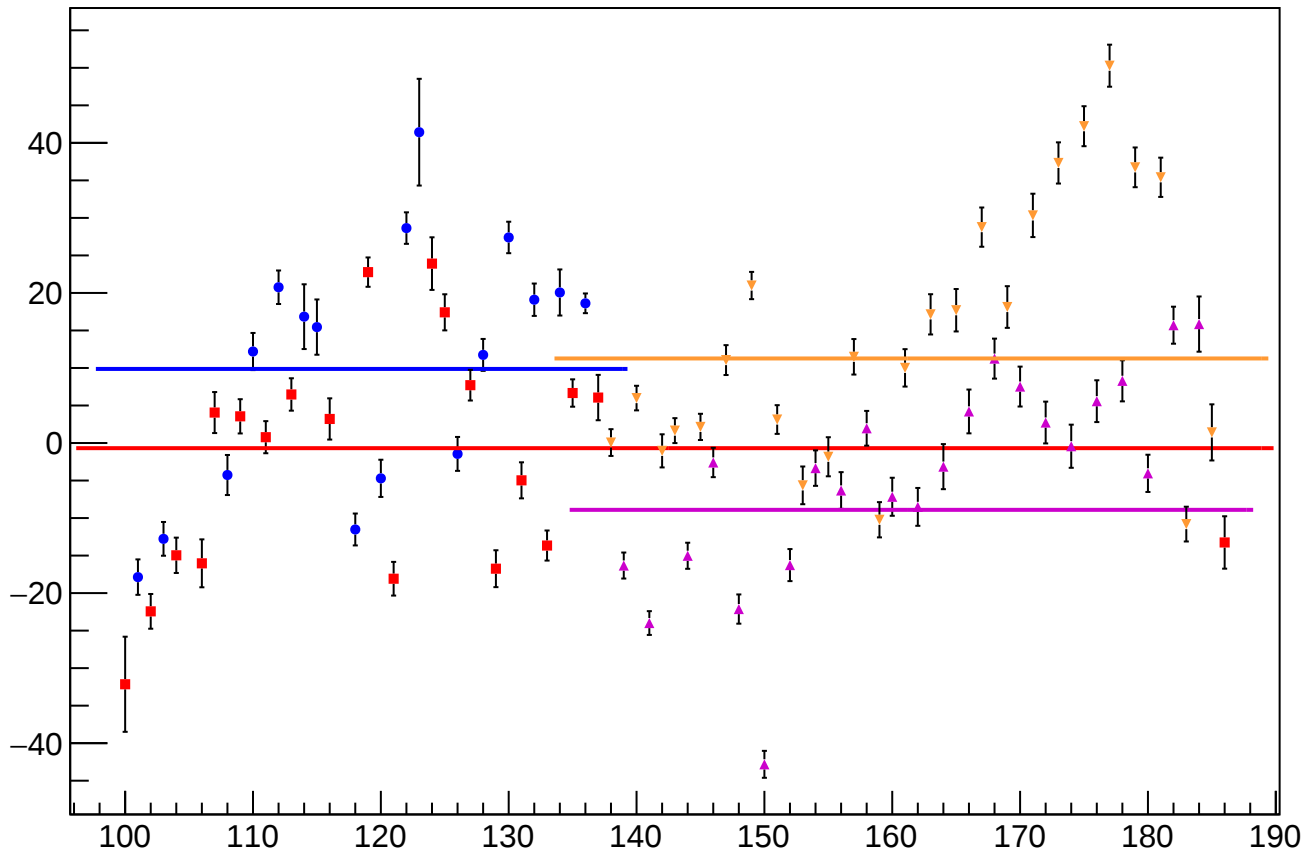
Right: 3098.146 $\pm$ 0.581 χ^2 /NDF: 15232.0/36

In: 3253.729 $\pm$ 0.470 χ^2 /NDF:337744.9/39

Out: 3245.896 $\pm$ 0.452 χ^2 /NDF:398003.2/44

All: 3249.659 $\pm$ 0.326 χ^2 /NDF: 735892.1/84

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.873 ± 0.560 χ^2/NDF : 701.6/16

Left Out: 11.268 ± 0.454 χ^2/NDF : 1141.8/24

Right Out: -0.686 ± 0.541 χ^2/NDF : 641.3/19

Left In: -8.905 ± 0.478 χ^2/NDF : 936.3/22

Left: 1.682 ± 0.329 χ^2/NDF : 3014.7/47

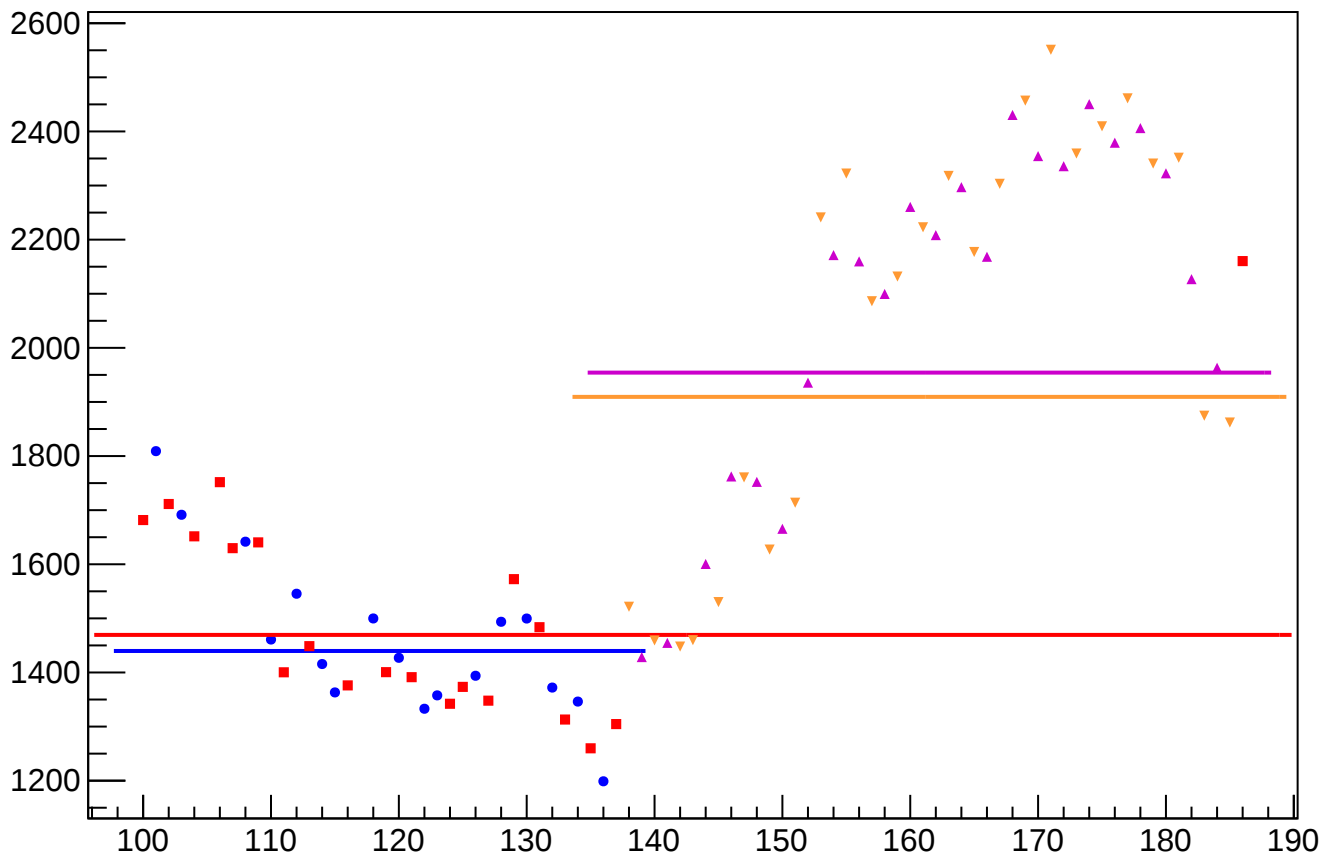
Right: 4.409 ± 0.389 χ^2/NDF : 1526.6/36

In: -1.007 ± 0.363 χ^2/NDF : 2288.3/39

Out: 6.326 ± 0.348 χ^2/NDF : 2069.3/44

All: 2.819 ± 0.251 χ^2/NDF : 4569.9/84

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.733 ± 0.396 $\chi^2/\text{NDF}: 172867.1/16$

Left Out: 1909.387 ± 0.321 $\chi^2/\text{NDF}: 1398498.0/24$

Right Out: 1469.445 ± 0.383 $\chi^2/\text{NDF}: 218610.4/19$

Left In: 1954.236 ± 0.338 $\chi^2/\text{NDF}: 1044826.7/22$

Left: 1930.697 ± 0.233 $\chi^2/\text{NDF}: 2452584.2/47$

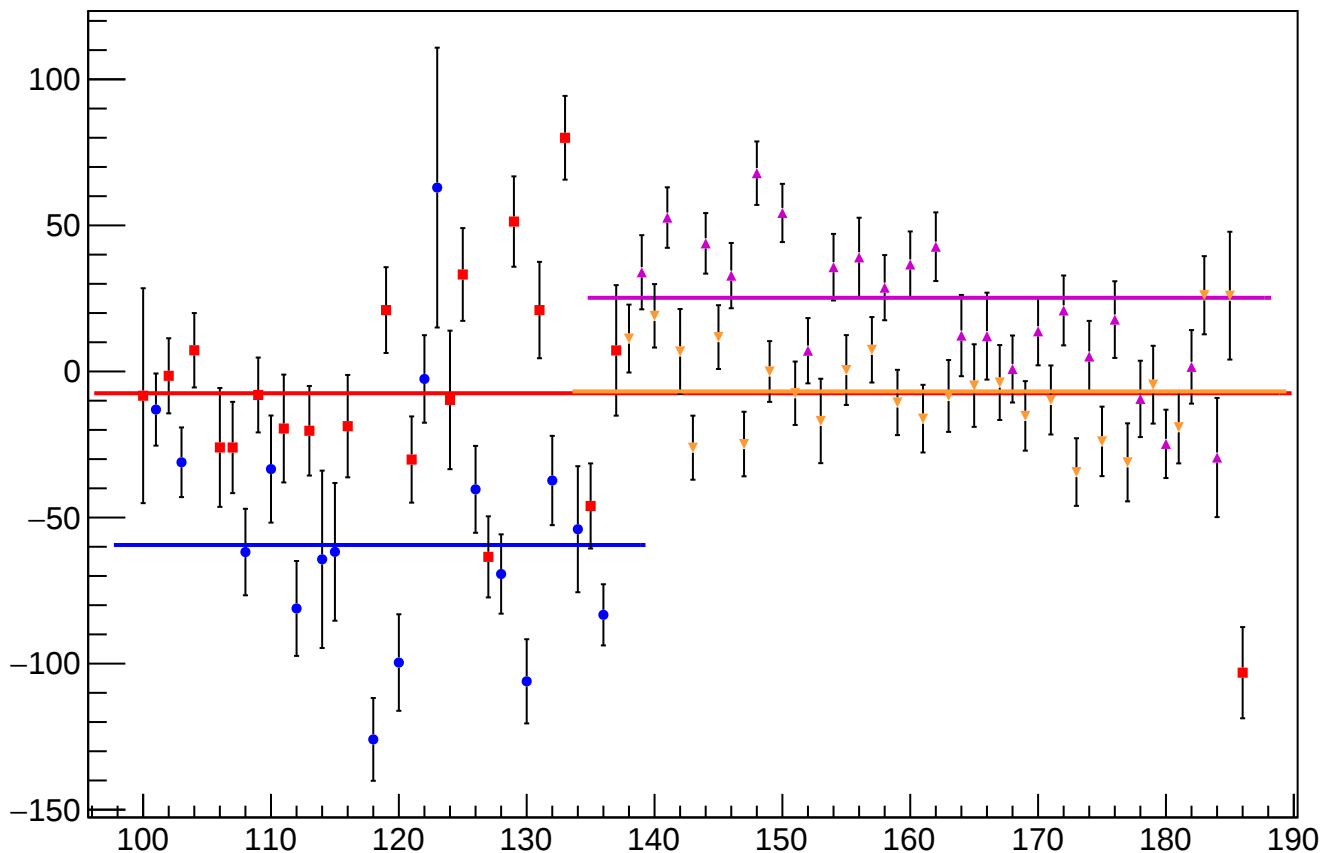
Right: 1455.109 ± 0.275 $\chi^2/\text{NDF}: 394386.3/36$

In: 1737.829 ± 0.257 $\chi^2/\text{NDF}: 2194267.8/39$

Out: 1727.489 ± 0.246 $\chi^2/\text{NDF}: 2392372.4/44$

All: 1732.434 ± 0.178 $\chi^2/\text{NDF}: 4587484.8/84$

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.392 $\pm$ 3.736 χ^2 /NDF: 92.5/16

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

Right Out: -7.445 $\pm$ 3.542 χ^2 /NDF: 133.9/19

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

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

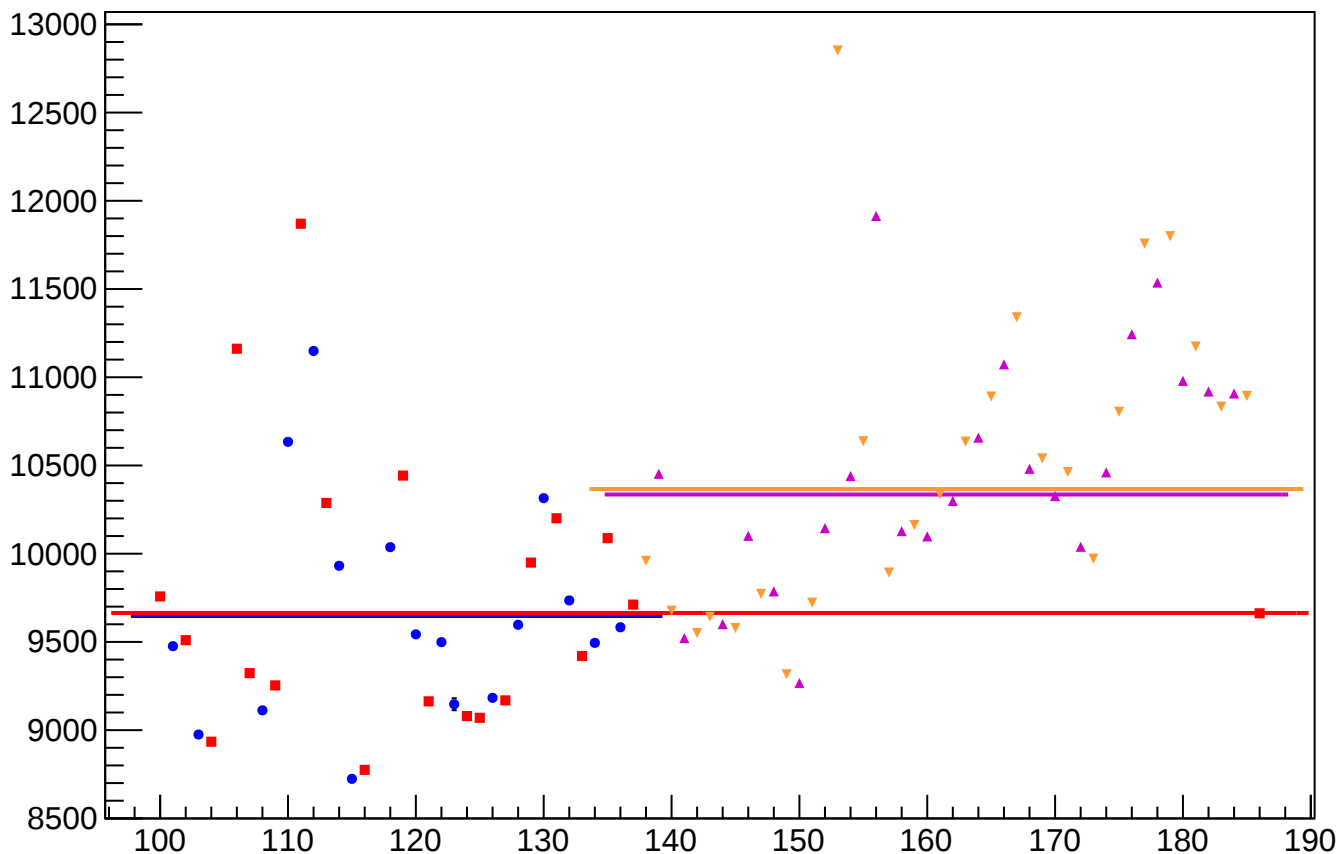
Right: -32.034 $\pm$ 2.570 χ^2 /NDF: 328.3/36

In: -0.763 $\pm$ 2.070 χ^2 /NDF:537.3/39

Out: -7.022 $\pm$ 2.000 χ^2 /NDF:176.3/44

All: -4.001 $\pm$ 1.438 χ^2 /NDF: 718.3/84

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.921 ± 2.641 $\chi^2/\text{NDF}: 43997.1/16$

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

Right Out: 9664.096 ± 2.504 $\chi^2/\text{NDF}: 77326.5/19$

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

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

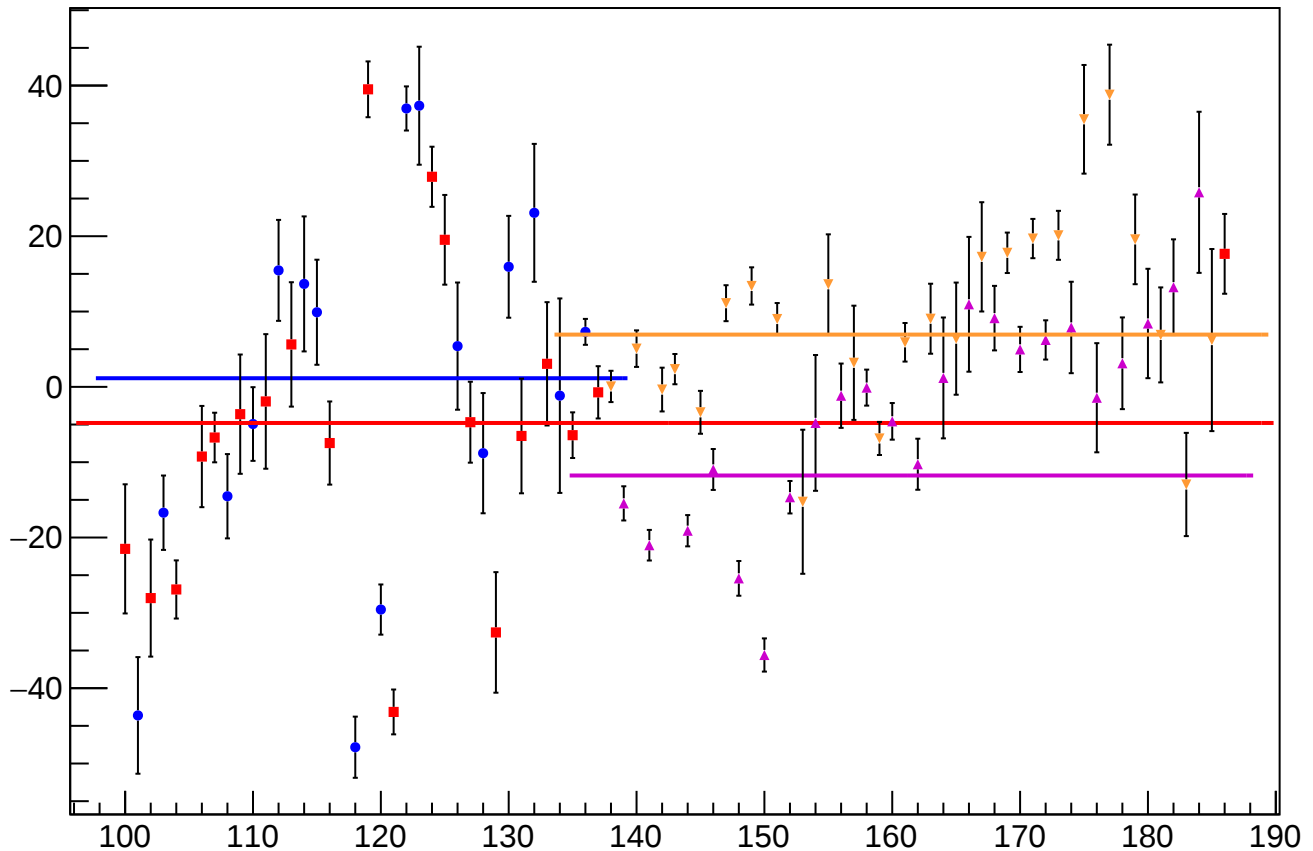
Right: 9655.966 ± 1.817 $\chi^2/\text{NDF}: 121345.9/36$

In: 10124.006 ± 1.464 $\chi^2/\text{NDF}: 218246.3/39$

Out: 10142.629 ± 1.414 $\chi^2/\text{NDF}: 342328.9/44$

All: 10133.640 ± 1.017 $\chi^2/\text{NDF}: 560658.9/84$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.147 $\pm$ 1.067 χ^2/NDF : 490.7/16

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

Right Out: -4.793 $\pm$ 1.069 χ^2/NDF : 473.7/19

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

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

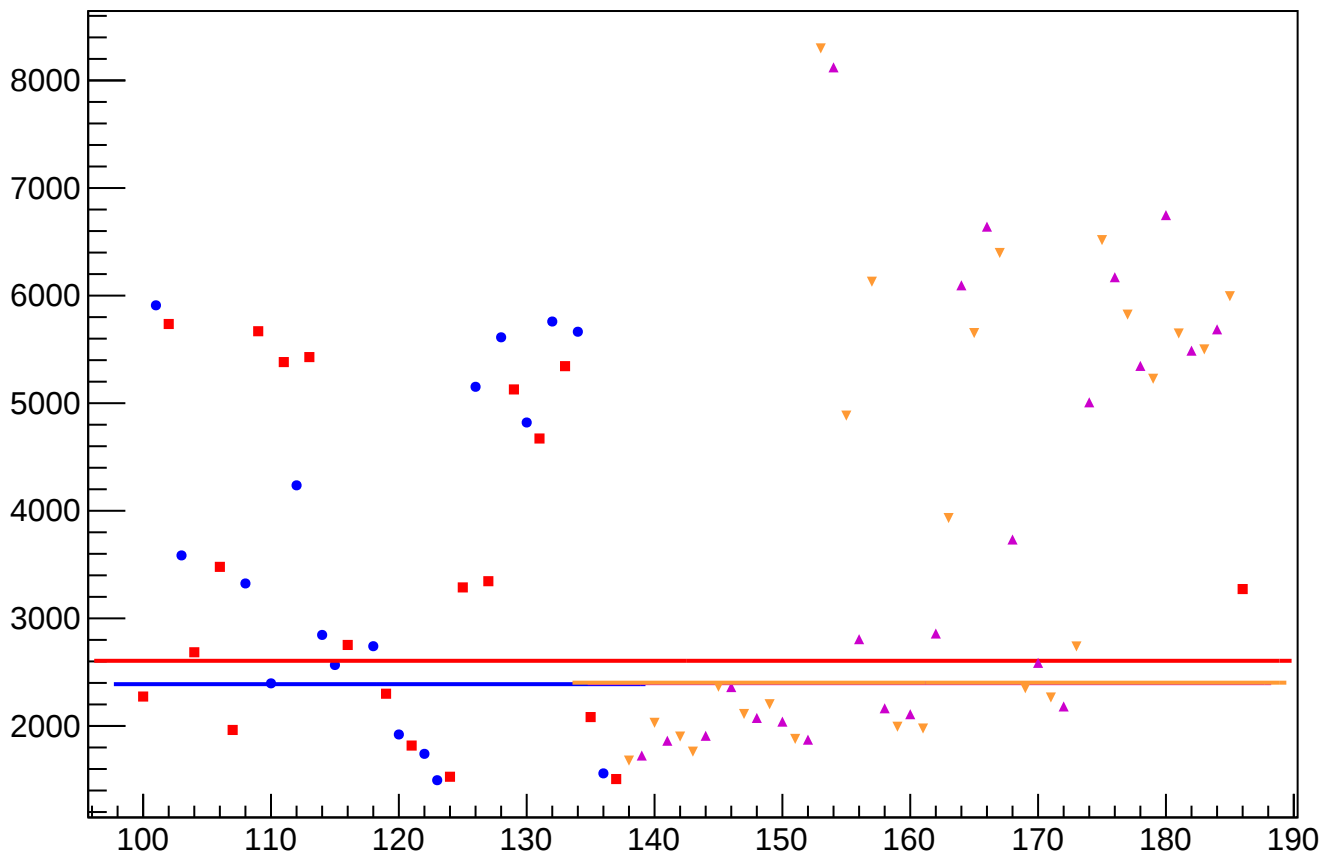
Right: -1.817 $\pm$ 0.755 χ^2/NDF : 979.8/36

In: -8.285 $\pm$ 0.554 χ^2/NDF : 992.7/39

Out: 3.854 $\pm$ 0.548 χ^2/NDF : 766.3/44

All: -2.152 $\pm$ 0.390 χ^2/NDF : 2001.4/84

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2388.532 ± 0.755 $\chi^2/\text{NDF}: 2588689.4/16$

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

Right Out: 2605.683 ± 0.756 $\chi^2/\text{NDF}: 2391818.2/19$

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

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

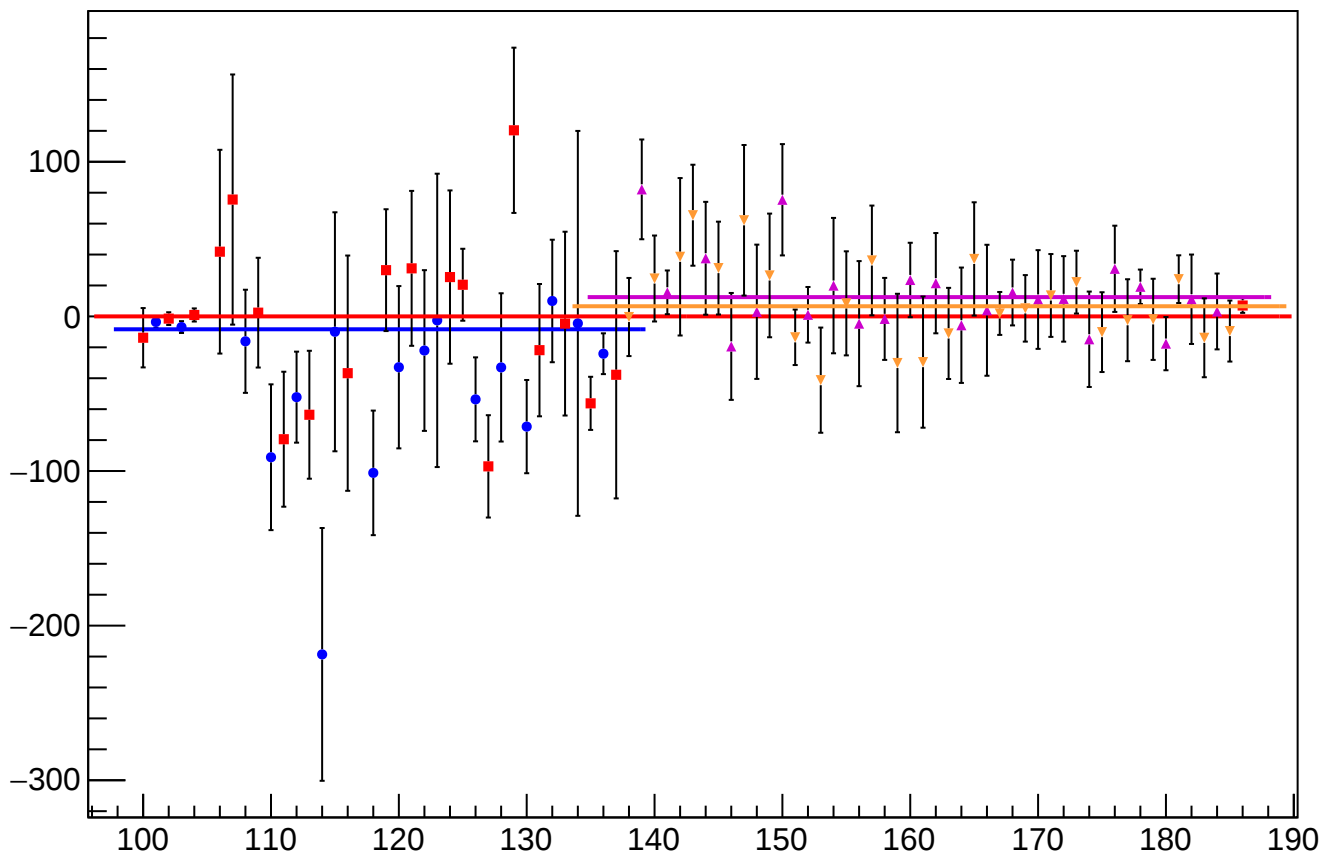
Right: 2496.878 ± 0.534 $\chi^2/\text{NDF}: 5021824.4/36$

In: 2395.229 ± 0.392 $\chi^2/\text{NDF}: 7987717.4/39$

Out: 2455.821 ± 0.388 $\chi^2/\text{NDF}: 8791085.0/44$

All: 2425.840 ± 0.276 $\chi^2/\text{NDF}: 16790883.9/86$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.339 ± 2.588 χ^2/NDF : 28.3/16

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

Right Out: 0.000 ± 2.404 χ^2/NDF : 36.9/19

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

Left: 9.545 ± 3.572 χ^2/NDF : 32.8/47

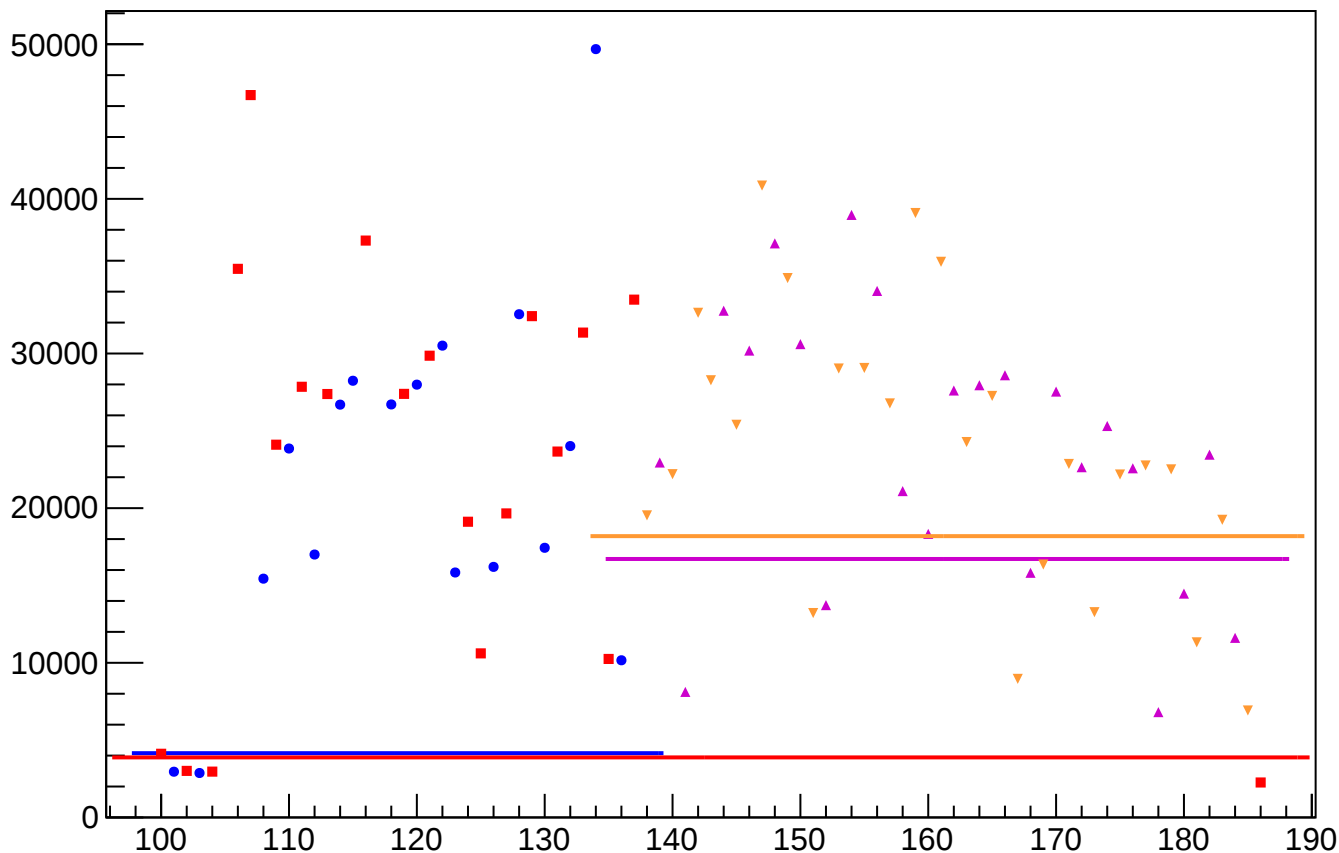
Right: -3.861 ± 1.761 χ^2/NDF : 70.8/36

In: -3.976 ± 2.301 χ^2/NDF : 57.2/39

Out: 1.201 ± 2.173 χ^2/NDF : 55.0/44

All: -1.239 ± 1.580 χ^2/NDF : 114.9/84

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4156.086 ± 1.830 $\chi^2/\text{NDF}: 5974546.9/16$

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

Right Out: 3882.941 ± 1.700 $\chi^2/\text{NDF}: 7713485.7/19$

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

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

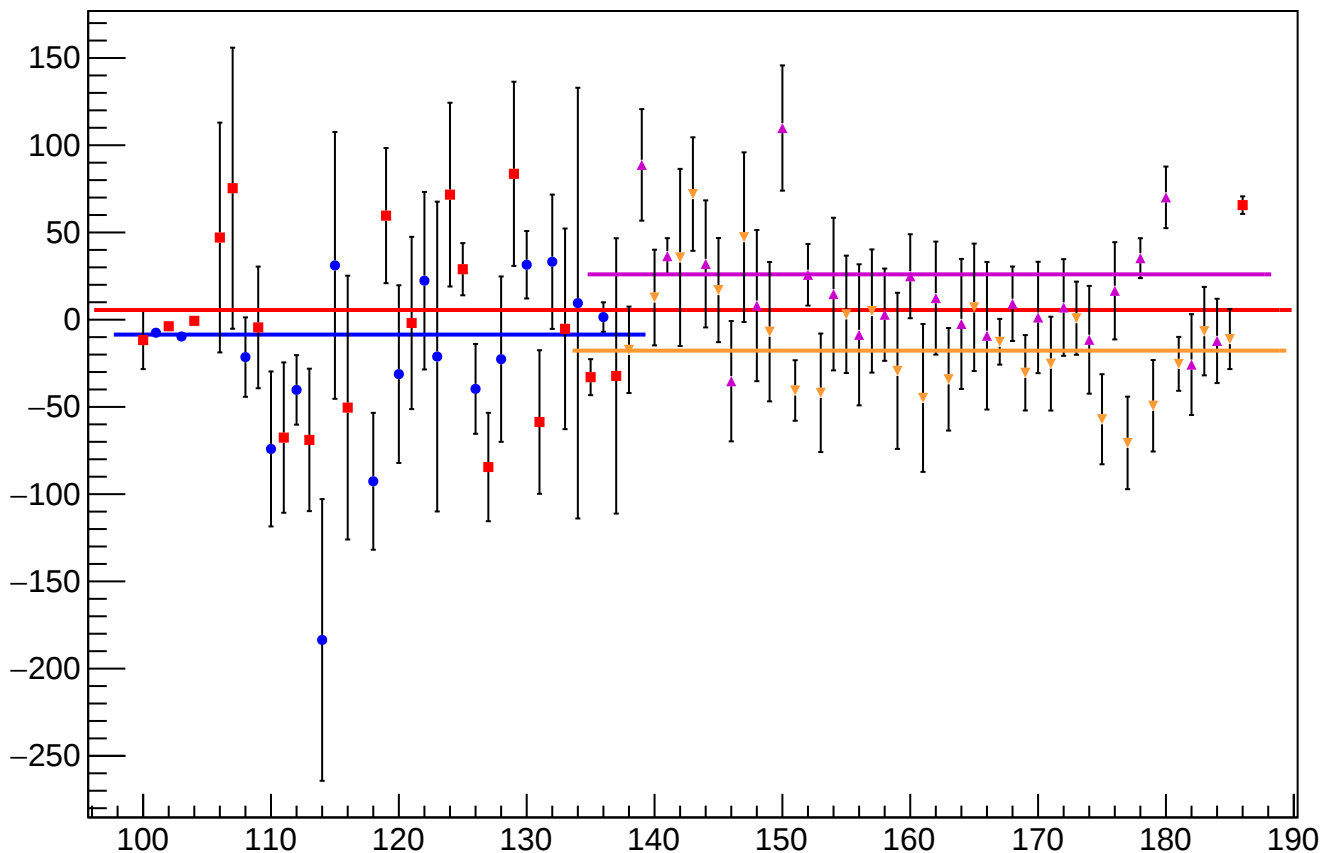
Right: 4009.436 ± 1.245 $\chi^2/\text{NDF}: 13699992.8/36$

In: 6788.658 ± 1.627 $\chi^2/\text{NDF}: 22039372.0/39$

Out: 6502.396 ± 1.536 $\chi^2/\text{NDF}: 25947925.7/44$

All: 6637.320 ± 1.117 $\chi^2/\text{NDF}: 48003663.9/80$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.536 $\pm$ 1.778 χ^2/NDF : 24.0/16

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

Right Out: 5.556 $\pm$ 1.795 χ^2/NDF : 201.1/19

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

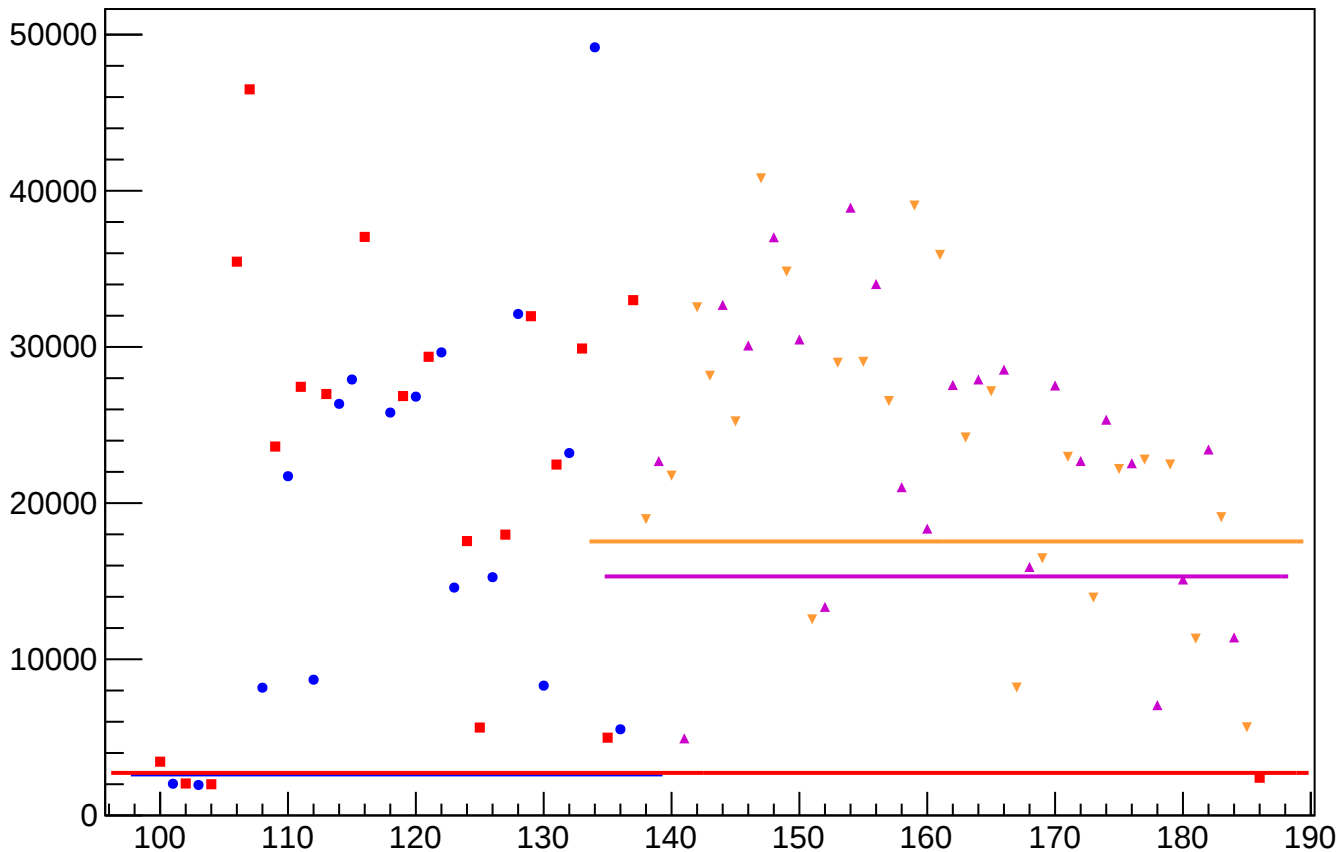
Right: -1.558 $\pm$ 1.263 χ^2/NDF : 256.2/36

In: -4.353 $\pm$ 1.667 χ^2/NDF : 102.3/39

Out: 2.874 $\pm$ 1.689 χ^2/NDF : 247.6/44

All: -0.787 $\pm$ 1.186 χ^2/NDF : 359.2/84

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2627.104 ± 1.257 $\chi^2/\text{NDF}: 5569866.4/16$

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

Right Out: 2725.200 ± 1.269 $\chi^2/\text{NDF}: 7821531.7/19$

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

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

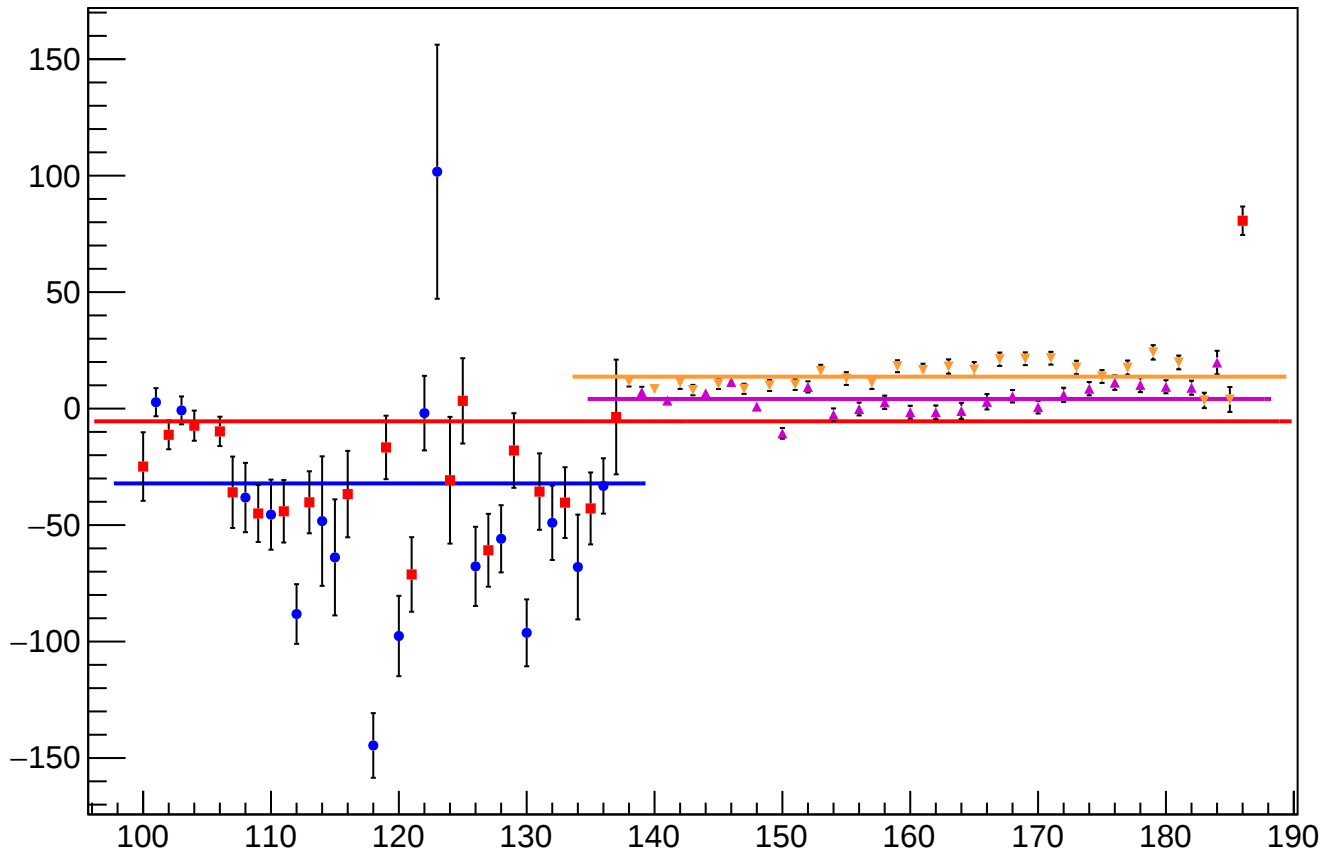
Right: 2675.678 ± 0.893 $\chi^2/\text{NDF}: 13394412.6/36$

In: 4163.055 ± 1.179 $\chi^2/\text{NDF}: 25610538.7/39$

Out: 4433.317 ± 1.194 $\chi^2/\text{NDF}: 29433298.6/44$

All: 4296.427 ± 0.839 $\chi^2/\text{NDF}: 55069784.7/8$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.125 ± 2.985 χ^2/NDF : 203.3/16

Left Out: 13.710 ± 0.535 χ^2/NDF : 89.9/24

Right Out: -5.463 ± 2.448 χ^2/NDF : 280.4/19

Left In: 4.141 ± 0.555 χ^2/NDF : 111.7/22

Left: 9.097 ± 0.385 χ^2/NDF : 355.6/47

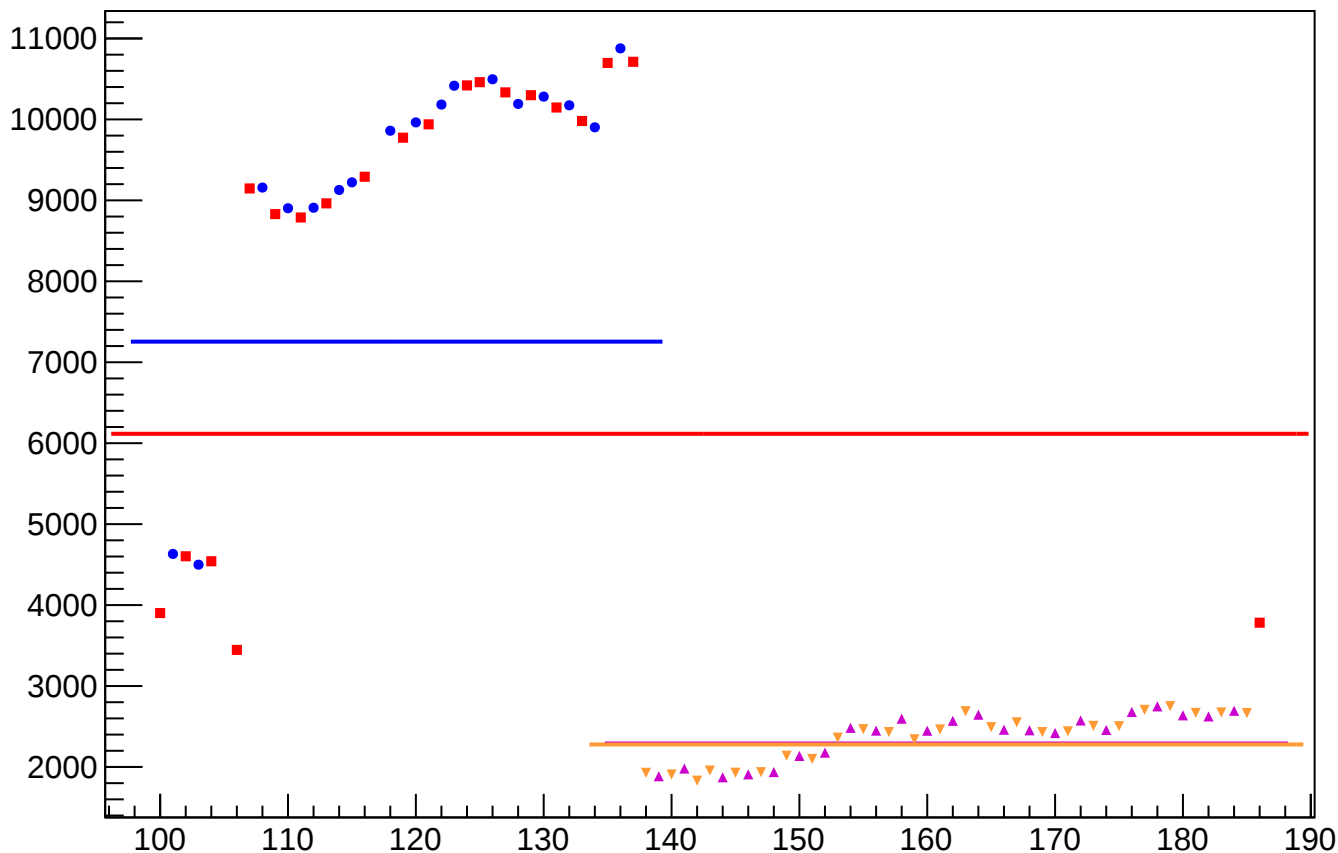
Right: -16.185 ± 1.893 χ^2/NDF : 531.5/36

In: 2.929 ± 0.545 χ^2/NDF : 457.7/39

Out: 12.835 ± 0.523 χ^2/NDF : 428.8/44

All: 8.091 ± 0.377 χ^2/NDF : 1058.4/84

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7254.506+/-2.110 χ^2/NDF : 1633073.8/16

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

Right Out: 6116.322+/-1.731 χ^2/NDF : 2538489.1/19

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

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

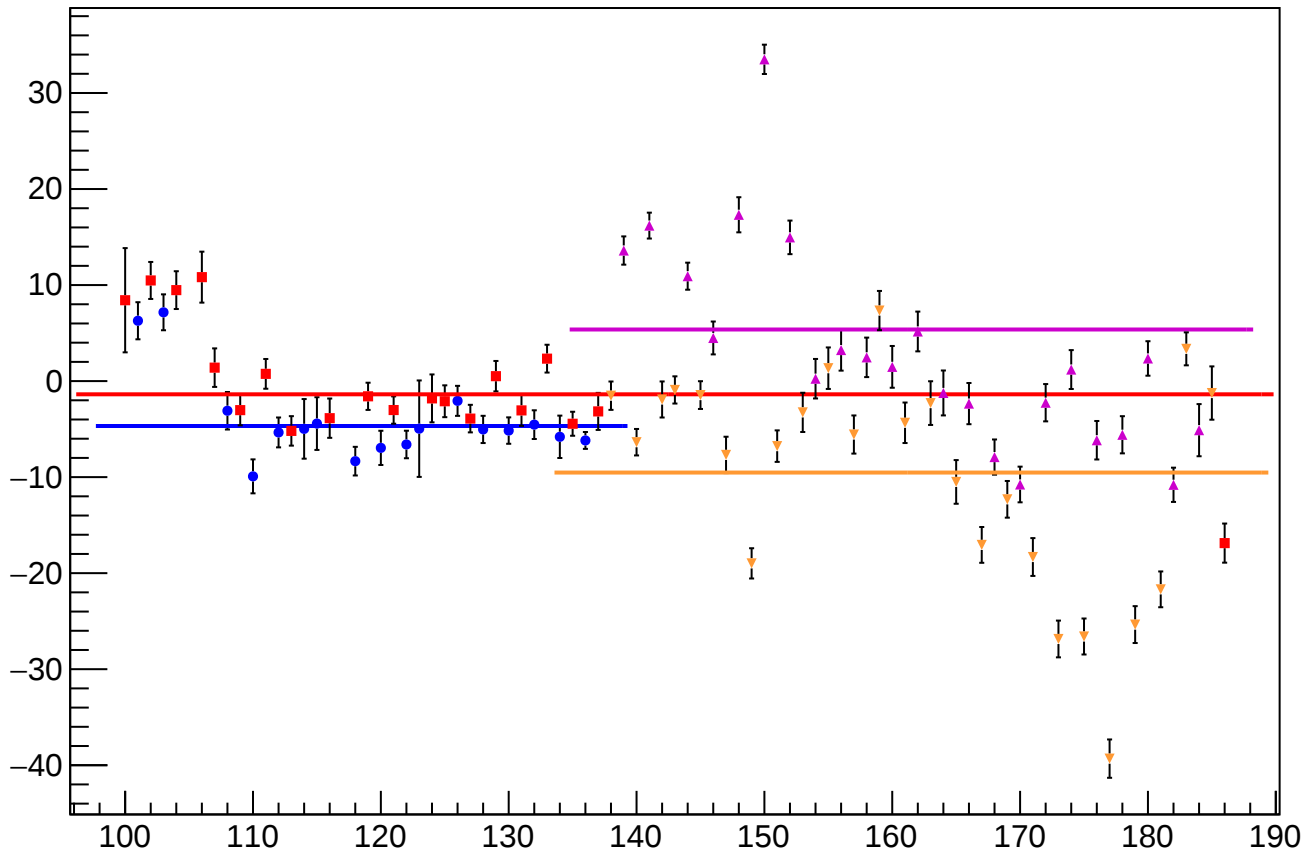
Right: 6574.035+/-1.338 χ^2/NDF : 4345451.6/36

In: 2456.258+/-0.386 χ^2/NDF : 7571049.7/39

Out: 2453.259+/-0.370 χ^2/NDF : 7838474.1/44

All: 2454.695+/-0.267 χ^2/NDF : 15409555.3/83

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.677 ± 0.393 χ^2/NDF : 97.6/16

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

Right Out: -1.376 ± 0.382 χ^2/NDF : 183.7/19

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

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

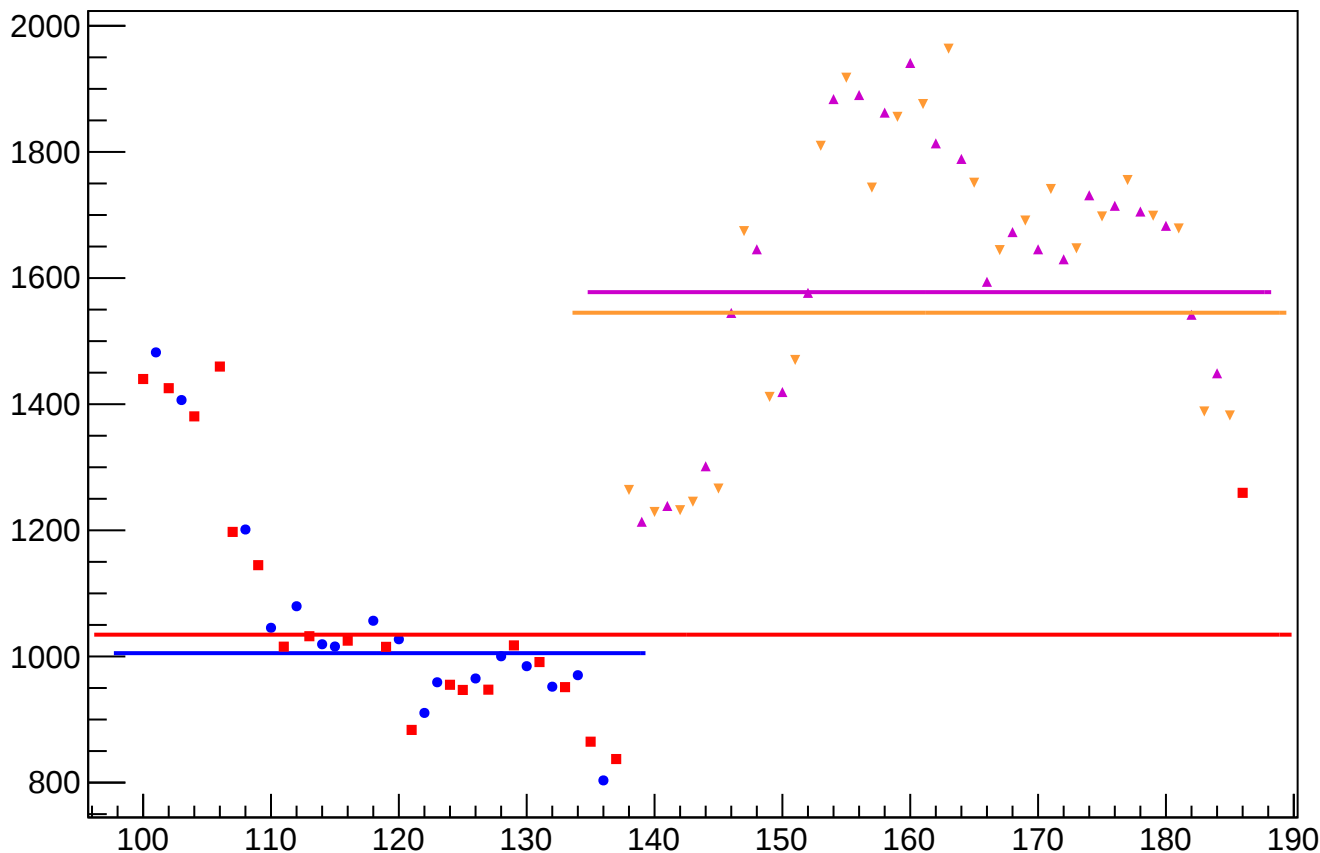
Right: -2.980 ± 0.274 χ^2/NDF : 317.5/36

In: 0.483 ± 0.274 χ^2/NDF : 1302.5/39

Out: -5.641 ± 0.264 χ^2/NDF : 1305.5/44

All: -2.698 ± 0.190 χ^2/NDF : 2866.8/84

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1005.234+/-0.278 χ^2/NDF : 361933.2/16

Left Out: 1545.053+/-0.258 χ^2/NDF : 842722.3/24

Right Out: 1034.556+/-0.270 χ^2/NDF : 358246.6/19

Left In: 1577.685+/-0.271 χ^2/NDF : 625406.2/22

Left: 1560.578+/-0.187 χ^2/NDF : 1475743.3/47

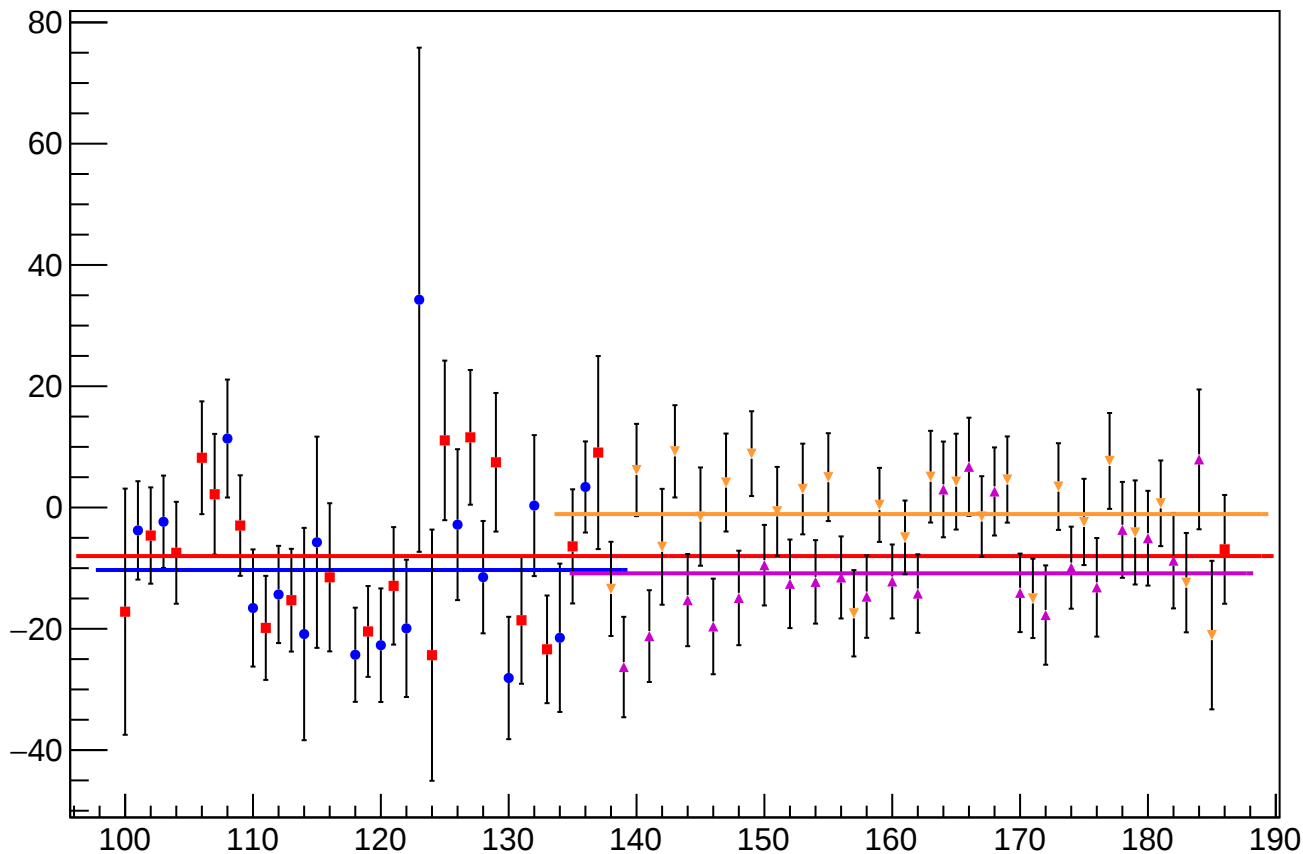
Right: 1020.312+/-0.194 χ^2/NDF : 725894.8/36

In: 1299.154+/-0.194 χ^2/NDF : 3162372.6/39

Out: 1301.776+/-0.187 χ^2/NDF : 3067668.2/44

All: 1300.516+/-0.134 χ^2/NDF : 6230135.6/84

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.305 $\pm$ 2.412 χ^2/NDF : 23.2/16

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

Right Out: -8.007 $\pm$ 2.210 χ^2/NDF : 23.5/19

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

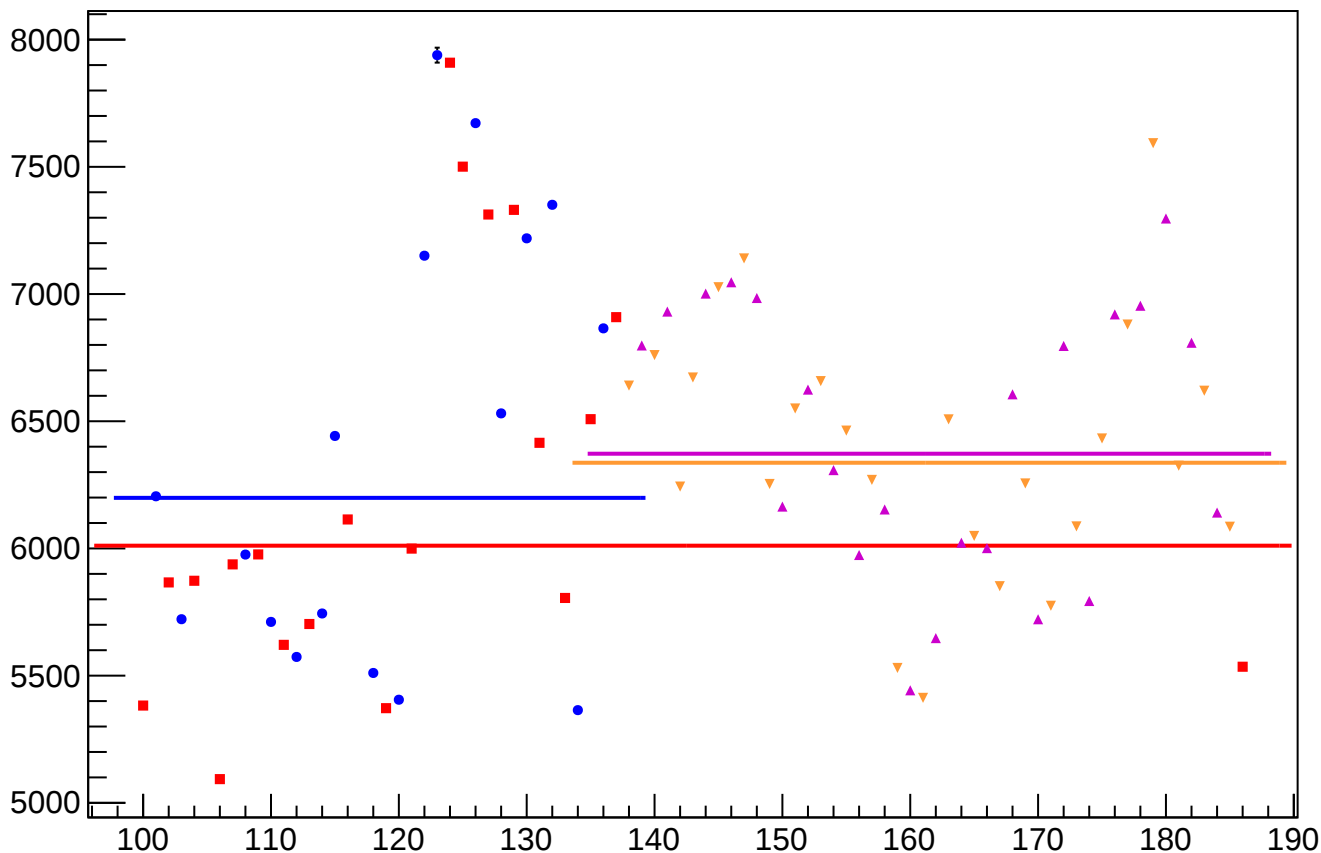
Right: -9.056 $\pm$ 1.630 χ^2/NDF : 47.1/36

In: -10.693 $\pm$ 1.299 χ^2/NDF : 47.6/39

Out: -3.241 $\pm$ 1.234 χ^2/NDF : 57.7/44

All: -6.776 $\pm$ 0.895 χ^2/NDF : 122.6/84

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6198.871+/-1.705 χ^2/NDF : 171305.8/16

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

Right Out: 6010.865+/-1.563 χ^2/NDF : 162378.3/19

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

Left: 6353.974+/-0.757 χ^2/NDF : 470718.0/47

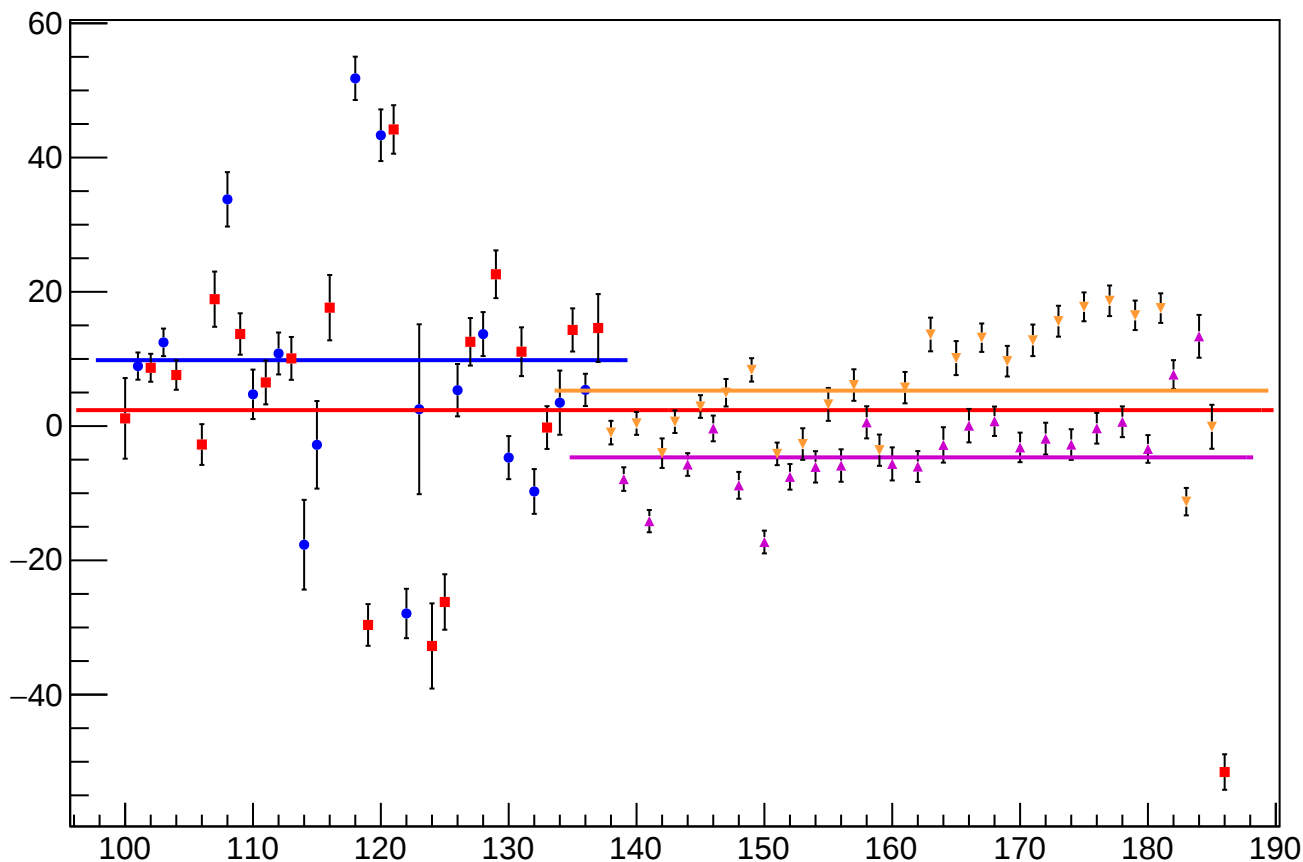
Right: 6096.692+/-1.152 χ^2/NDF : 340289.5/36

In: 6322.028+/-0.918 χ^2/NDF : 425909.0/39

Out: 6235.287+/-0.872 χ^2/NDF : 415240.7/44

All: 6276.431+/-0.633 χ^2/NDF : 845838.0/84

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.819+/-0.798 χ^2/NDF : 472.6/16

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

Right Out: 2.377+/-0.736 χ^2/NDF : 865.1/19

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

Left: 0.574+/-0.305 χ^2/NDF : 827.2/47

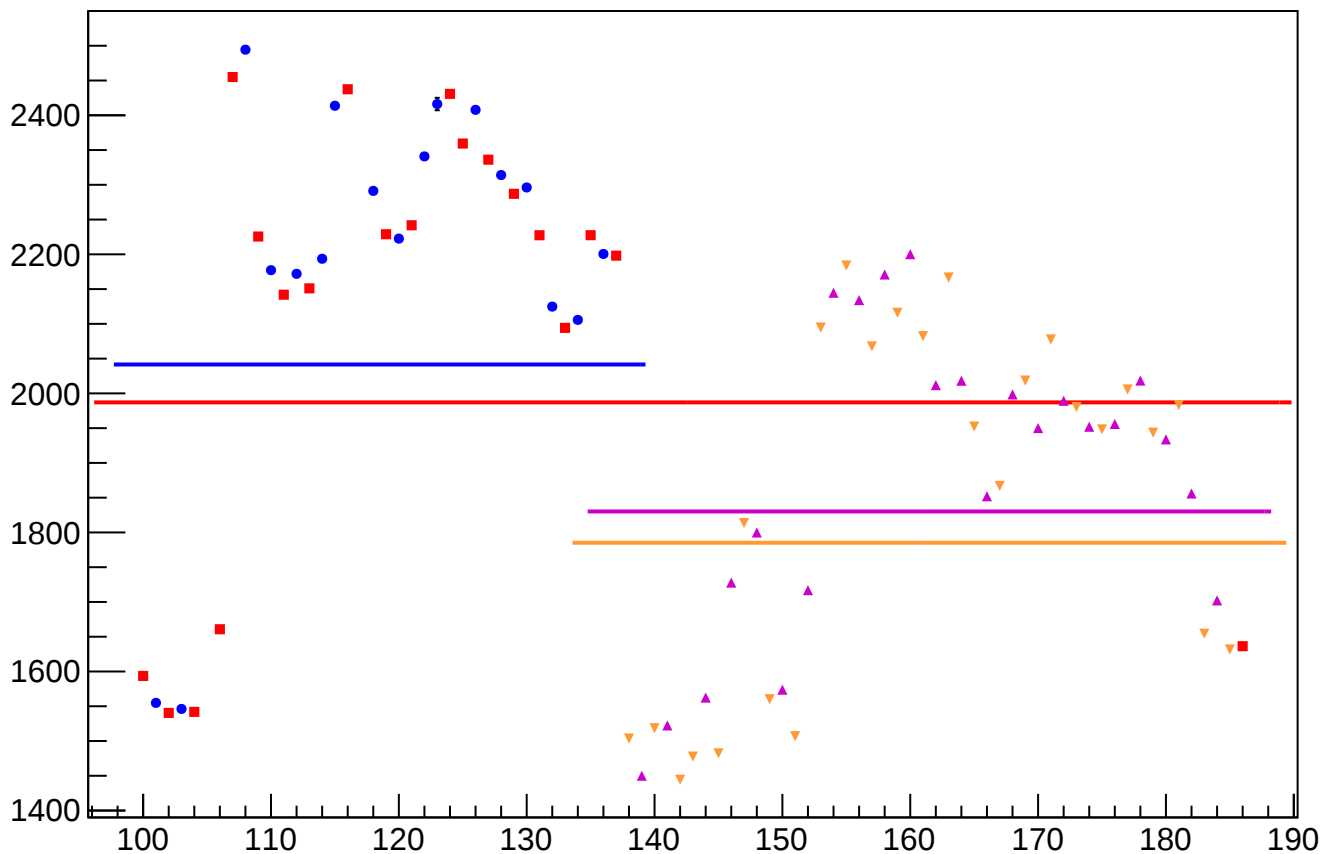
Right: 5.796+/-0.541 χ^2/NDF : 1384.8/36

In: -1.243+/-0.388 χ^2/NDF : 920.7/39

Out: 4.568+/-0.365 χ^2/NDF : 1242.9/44

All: 1.835+/-0.266 χ^2/NDF : 2282.7/84

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2041.543 $\pm$ 0.564 χ^2 /NDF: 356223.7/16

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

Right Out: 1987.040 $\pm$ 0.520 χ^2 /NDF: 413226.9/19

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

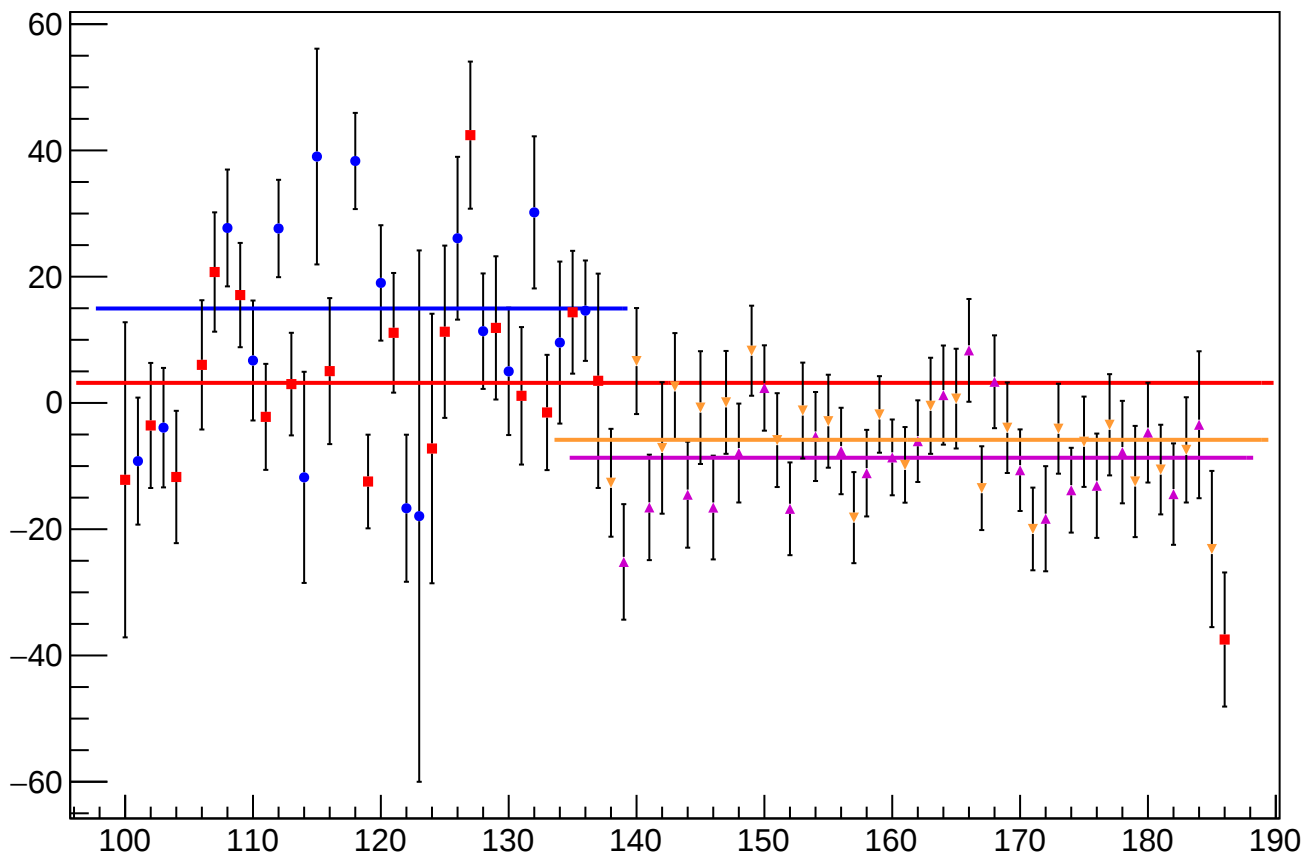
Right: 2012.079 $\pm$ 0.382 χ^2 /NDF: 774494.4/36

In: 1880.017 $\pm$ 0.274 χ^2 /NDF: 971856.7/39

Out: 1834.927 $\pm$ 0.258 χ^2 /NDF: 1277340.9/44

All: 1856.134 $\pm$ 0.188 χ^2 /NDF: 2263538.0/84

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.961 ± 2.490 $\chi^2/\text{NDF}: 40.9/16$

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

Right Out: 3.181 ± 2.304 $\chi^2/\text{NDF}: 43.6/19$

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

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

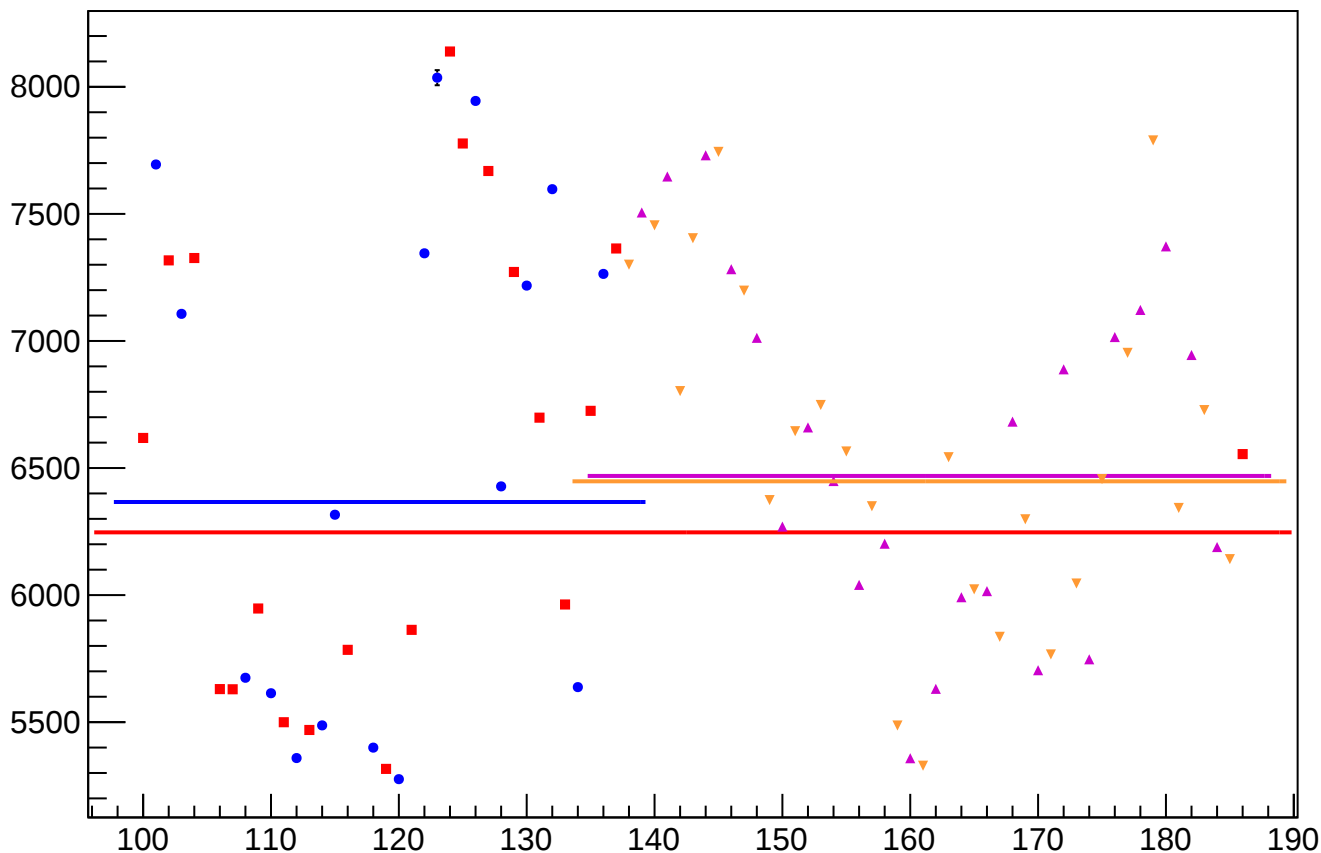
Right: 8.615 ± 1.691 $\chi^2/\text{NDF}: 96.5/36$

In: -1.952 ± 1.328 $\chi^2/\text{NDF}: 127.3/39$

Out: -3.108 ± 1.268 $\chi^2/\text{NDF}: 77.6/44$

All: -2.557 ± 0.917 $\chi^2/\text{NDF}: 205.3/84$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.340 $\pm$ 1.760 χ^2/NDF : 285567.3/16

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

Right Out: 6246.858 $\pm$ 1.629 χ^2/NDF : 243073.0/19

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

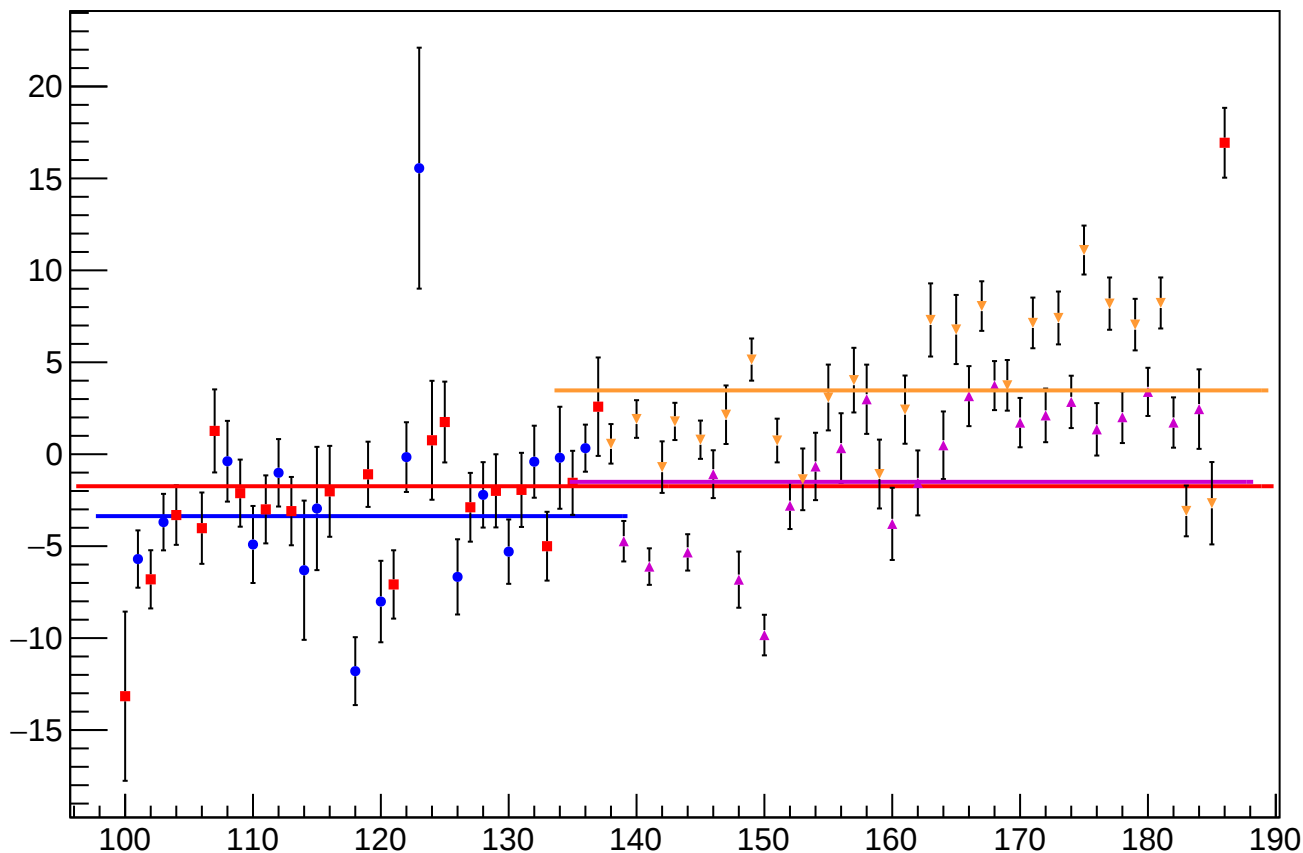
Right: 6301.970 $\pm$ 1.196 χ^2/NDF : 531121.9/36

In: 6439.705 $\pm$ 0.939 χ^2/NDF : 671320.6/39

Out: 6386.886 $\pm$ 0.896 χ^2/NDF : 625343.6/44

All: 6412.063 $\pm$ 0.648 χ^2/NDF : 1298319.2/84

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.367 ± 0.476 χ^2/NDF : 59.6/16

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

Right Out: -1.741 ± 0.444 χ^2/NDF : 135.8/19

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

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

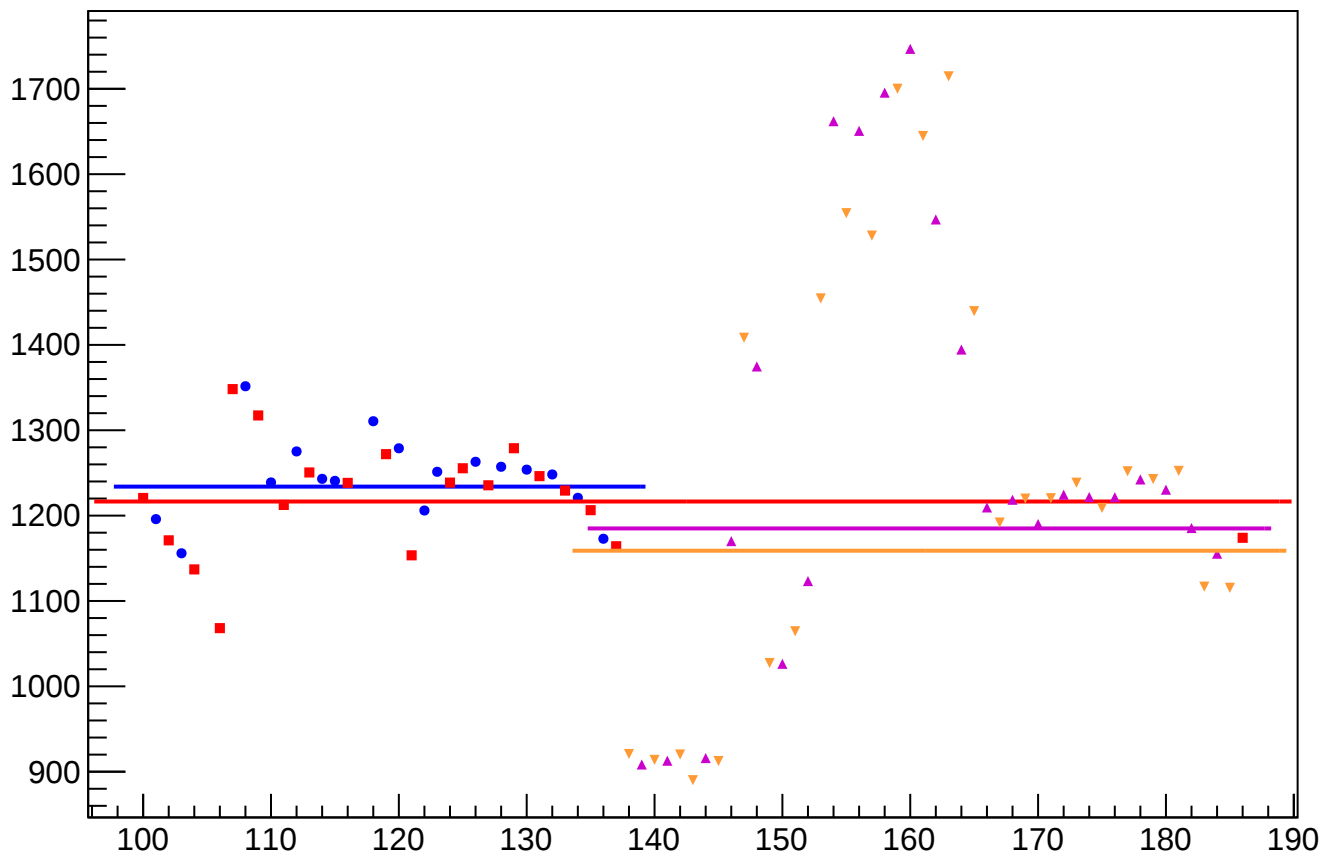
Right: -2.498 ± 0.325 χ^2/NDF : 201.6/36

In: -2.008 ± 0.248 χ^2/NDF : 273.4/39

Out: 2.017 ± 0.235 χ^2/NDF : 410.9/44

All: 0.116 ± 0.170 χ^2/NDF : 823.3/84

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1233.978 $\pm$ 0.337 χ^2/NDF : 23557.3/16

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

Right Out: 1216.522 $\pm$ 0.314 χ^2/NDF : 41433.7/19

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

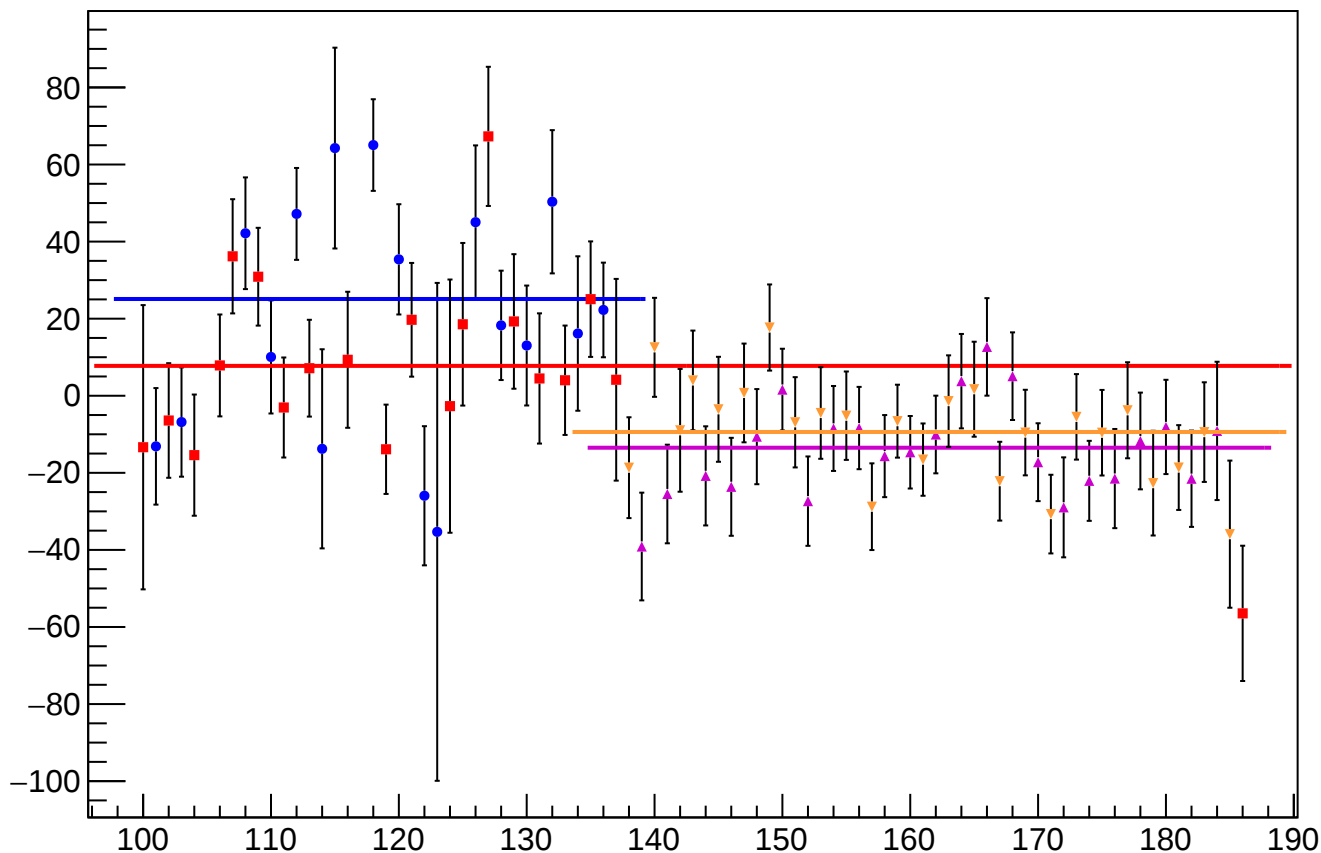
Right: 1224.646 $\pm$ 0.230 χ^2/NDF : 66427.0/36

In: 1198.263 $\pm$ 0.175 χ^2/NDF : 1229418.4/39

Out: 1174.964 $\pm$ 0.166 χ^2/NDF : 1476105.4/44

All: 1185.967 $\pm$ 0.121 χ^2/NDF : 2714832.1/84

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.108 ± 3.844 $\chi^2/\text{NDF}: 46.5/16$

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

Right Out: 7.751 ± 3.525 $\chi^2/\text{NDF}: 41.8/19$

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

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

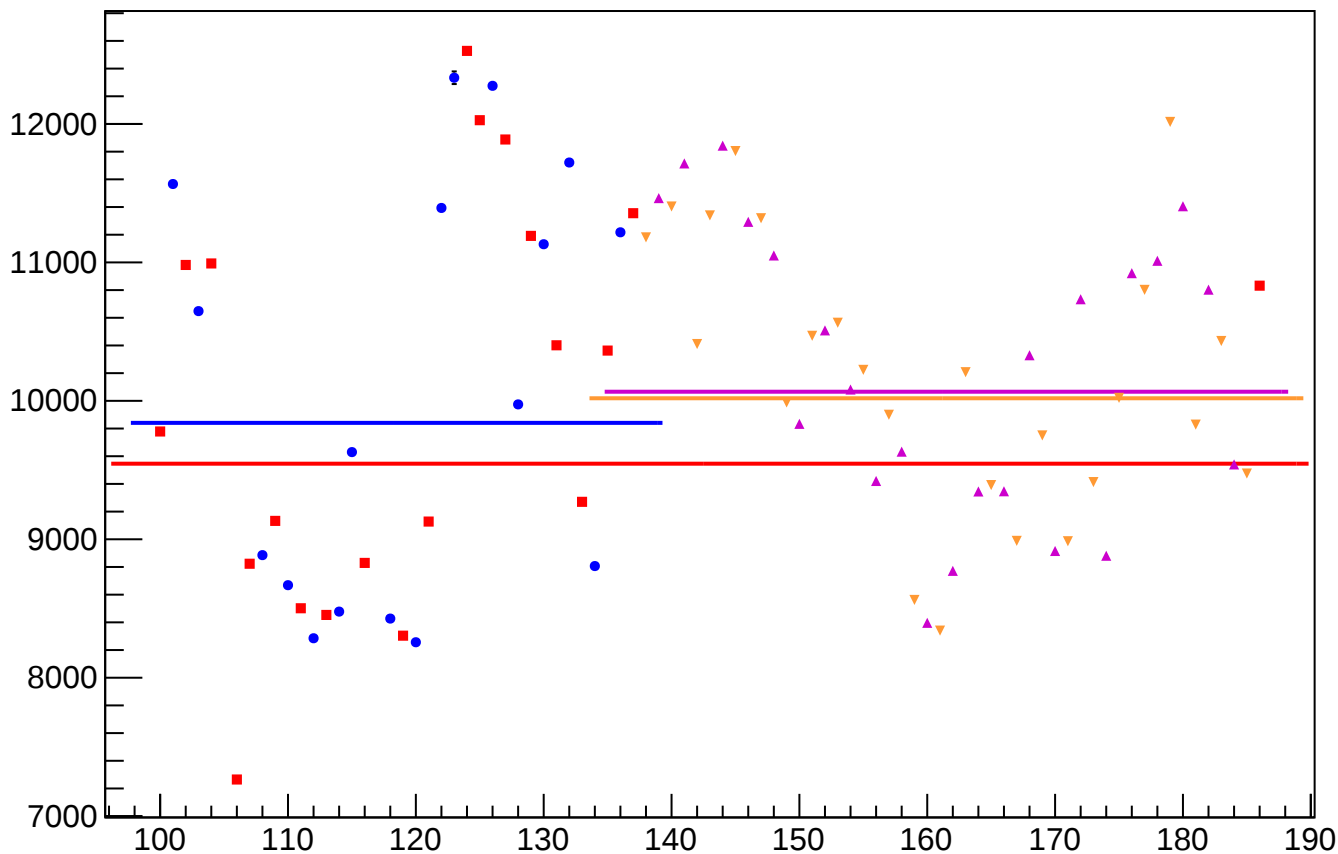
Right: 15.680 ± 2.598 $\chi^2/\text{NDF}: 99.3/36$

In: -2.383 ± 2.062 $\chi^2/\text{NDF}: 139.8/39$

Out: -4.095 ± 1.960 $\chi^2/\text{NDF}: 84.4/44$

All: -3.282 ± 1.421 $\chi^2/\text{NDF}: 224.6/84$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9840.966 ± 2.718 $\chi^2/\text{NDF}: 259106.8/16$

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

Right Out: 9546.034 ± 2.493 $\chi^2/\text{NDF}: 285765.5/19$

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

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

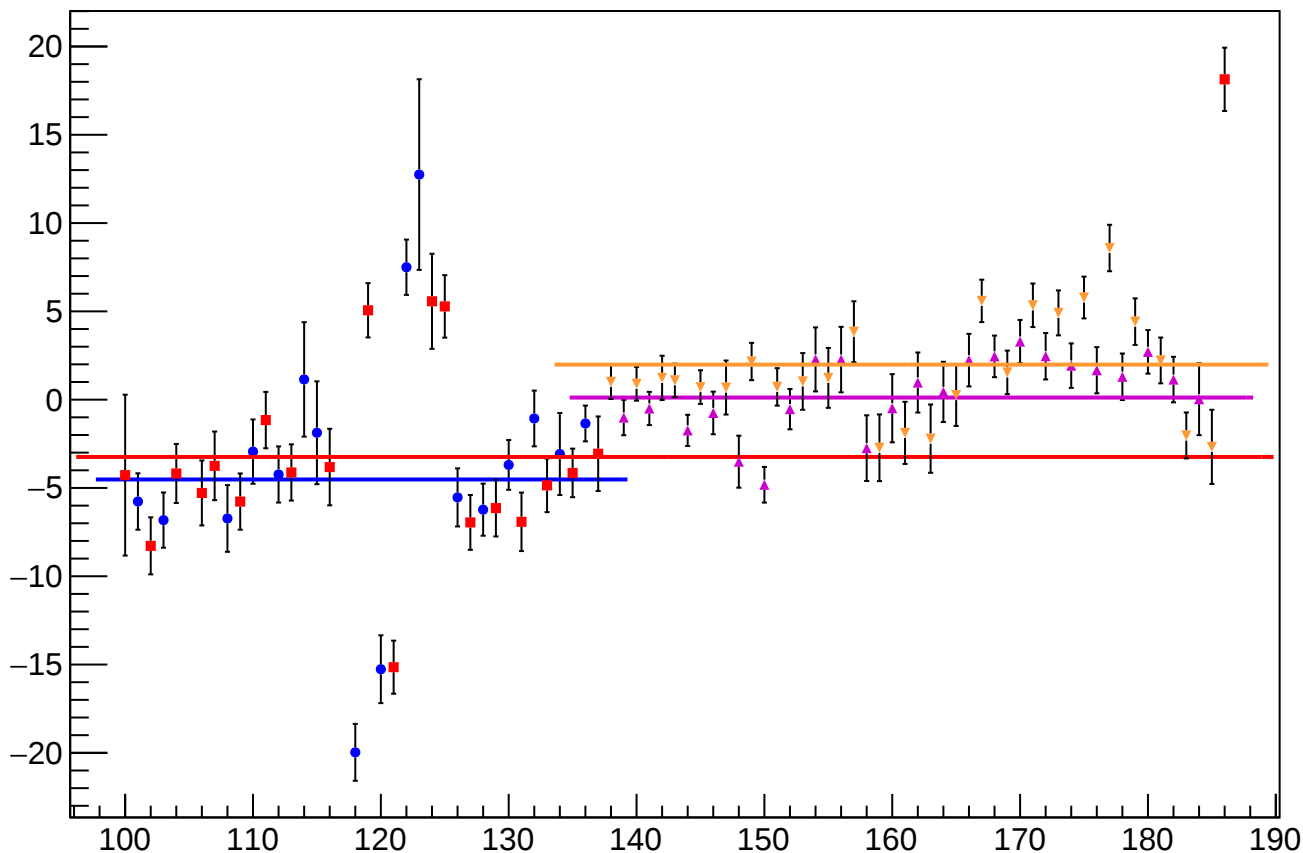
Right: 9680.754 ± 1.837 $\chi^2/\text{NDF}: 551267.7/36$

In: 10001.201 ± 1.458 $\chi^2/\text{NDF}: 621854.1/39$

Out: 9872.443 ± 1.386 $\chi^2/\text{NDF}: 655125.9/44$

All: 9933.573 ± 1.005 $\chi^2/\text{NDF}: 1281077.0/84$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.520 ± 0.409 $\chi^2/\text{NDF}: 218.2/16$

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

Right Out: -3.244 ± 0.385 $\chi^2/\text{NDF}: 299.6/19$

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

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

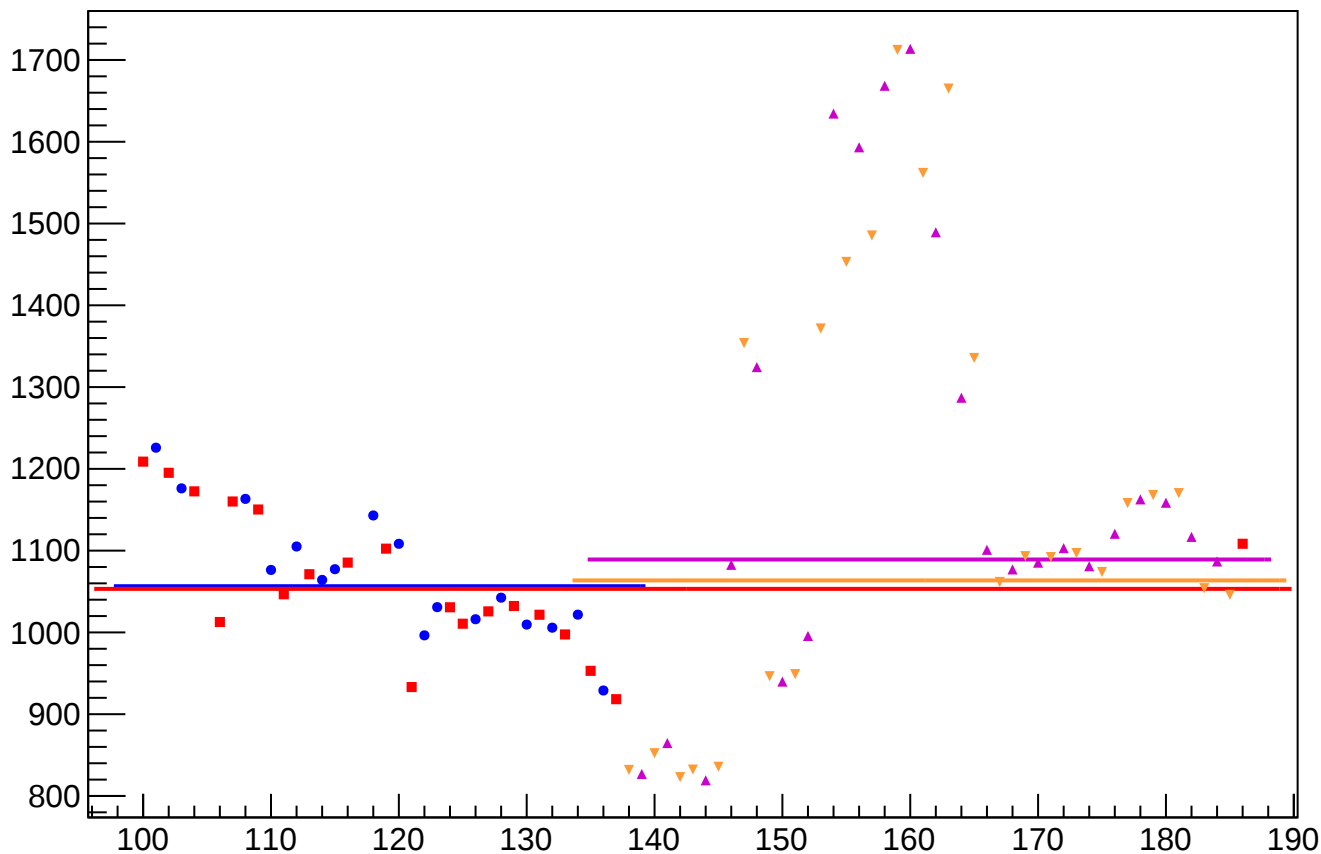
Right: -3.844 ± 0.280 $\chi^2/\text{NDF}: 522.9/36$

In: -1.280 ± 0.225 $\chi^2/\text{NDF}: 375.7/39$

Out: 0.394 ± 0.213 $\chi^2/\text{NDF}: 528.8/44$

All: -0.397 ± 0.154 $\chi^2/\text{NDF}: 933.8/84$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.494 $\pm$ 0.289 χ^2/NDF : 90759.5/16

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

Right Out: 1053.250 $\pm$ 0.273 χ^2/NDF : 84313.3/19

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

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

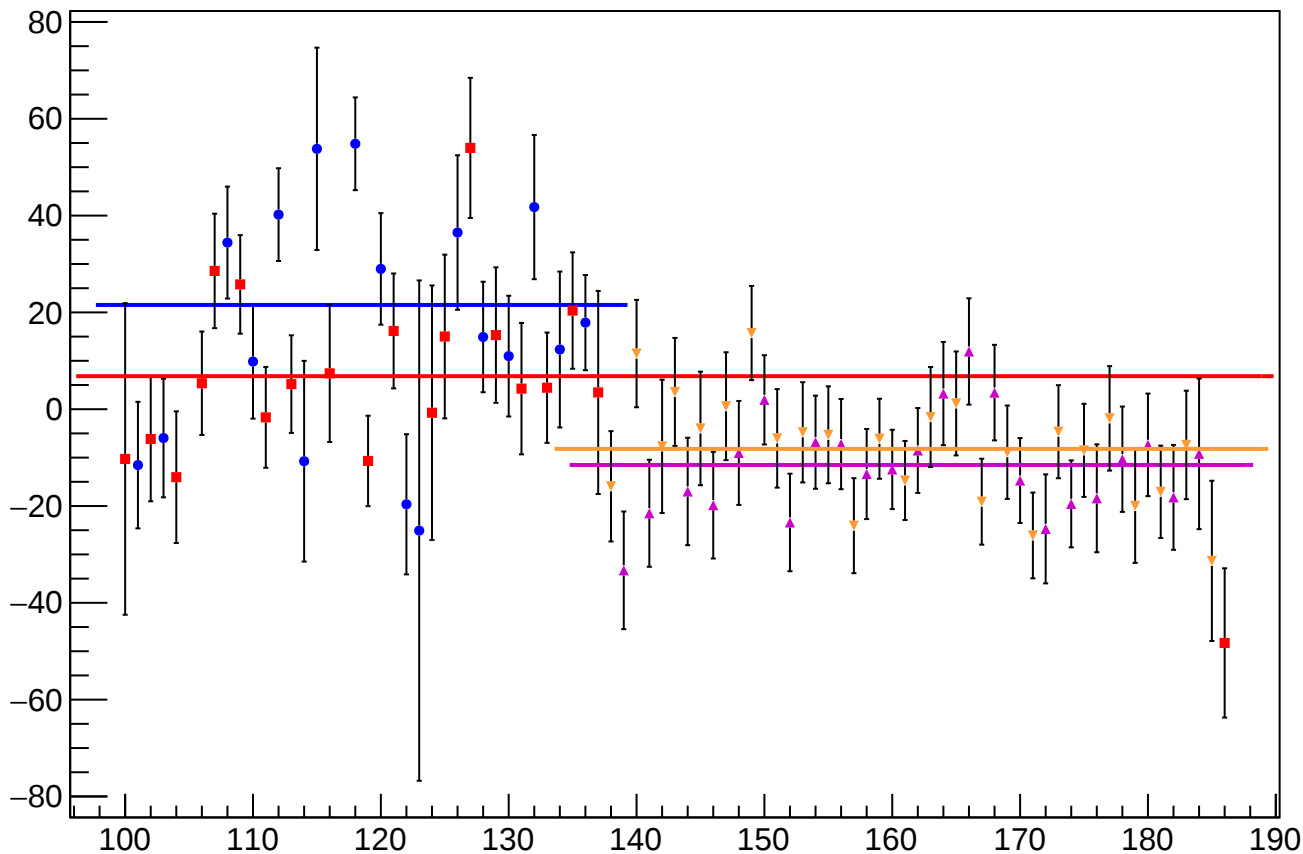
Right: 1054.776 $\pm$ 0.198 χ^2/NDF : 175139.5/36

In: 1079.305 $\pm$ 0.159 χ^2/NDF : 1530149.3/39

Out: 1060.452 $\pm$ 0.150 χ^2/NDF : 1702693.3/44

All: 1069.361 $\pm$ 0.109 χ^2/NDF : 3240278.2/84

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.541 ± 3.116 $\chi^2/\text{NDF}: 47.9/16$

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

Right Out: 6.823 ± 2.864 $\chi^2/\text{NDF}: 40.8/19$

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

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

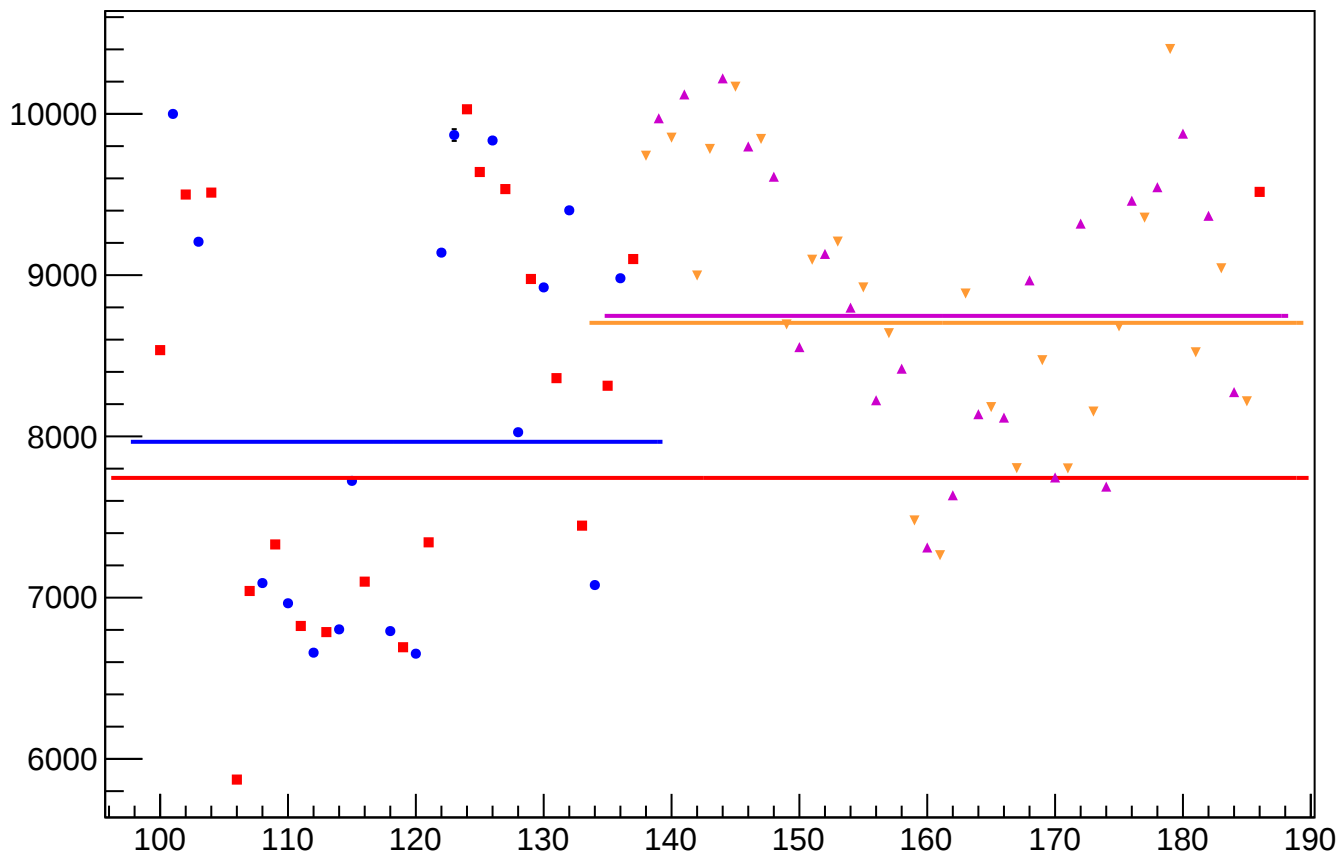
Right: 13.564 ± 2.109 $\chi^2/\text{NDF}: 100.8/36$

In: -1.039 ± 1.754 $\chi^2/\text{NDF}: 145.8/39$

Out: -3.112 ± 1.666 $\chi^2/\text{NDF}: 85.1/44$

All: -2.129 ± 1.208 $\chi^2/\text{NDF}: 231.7/84$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.450 $\pm$ 2.203 χ^2/NDF : 295660.2/16

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

Right Out: 7742.517 $\pm$ 2.025 χ^2/NDF : 340463.1/19

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

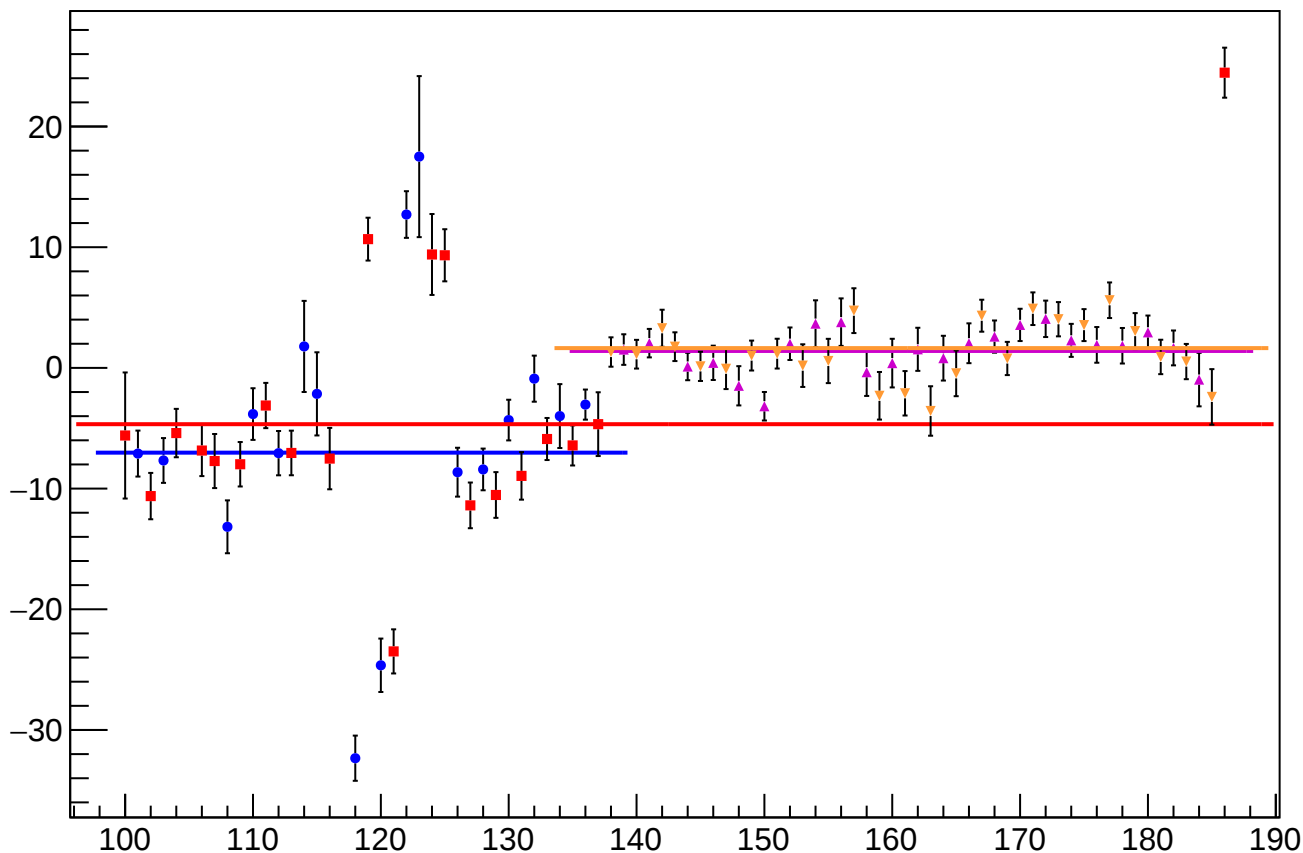
Right: 7845.074 $\pm$ 1.491 χ^2/NDF : 641722.4/36

In: 8499.913 $\pm$ 1.240 χ^2/NDF :728594.0/39

Out: 8378.708 $\pm$ 1.178 χ^2/NDF :821987.9/44

All: 8436.201 $\pm$ 0.854 χ^2/NDF : 1555601.5/84

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.022 ± 0.487 χ^2/NDF : 407.3/16

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

Right Out: -4.664 ± 0.456 χ^2/NDF : 486.0/19

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

Left: 1.528 ± 0.213 χ^2/NDF : 85.8/47

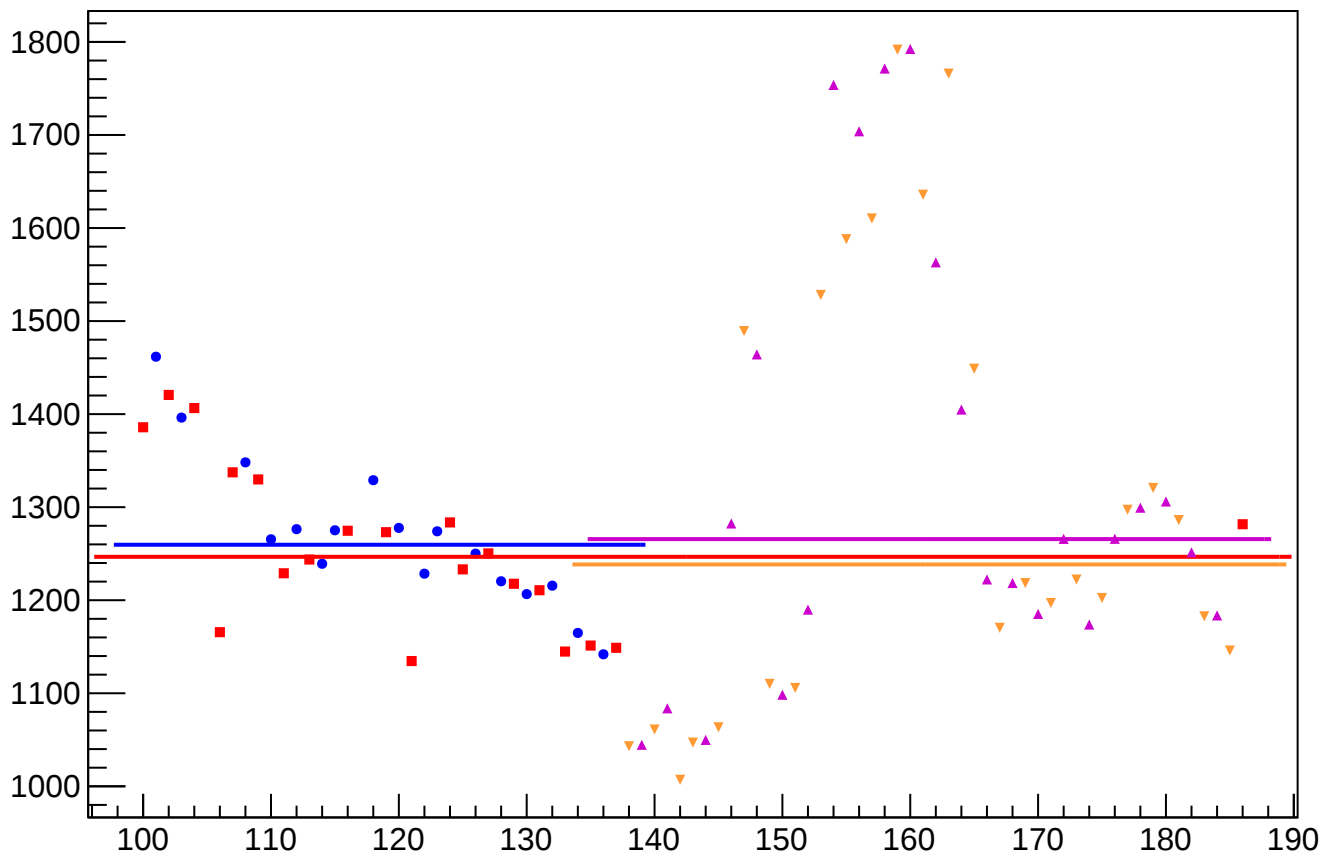
Right: -5.766 ± 0.333 χ^2/NDF : 905.7/36

In: -1.014 ± 0.261 χ^2/NDF : 654.8/39

Out: -0.208 ± 0.247 χ^2/NDF : 672.4/44

All: -0.589 ± 0.179 χ^2/NDF : 1332.3/84

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.602 $\pm$ 0.344 χ^2/NDF : 64816.8/16

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

Right Out: 1246.656 $\pm$ 0.322 χ^2/NDF : 67419.6/19

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

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

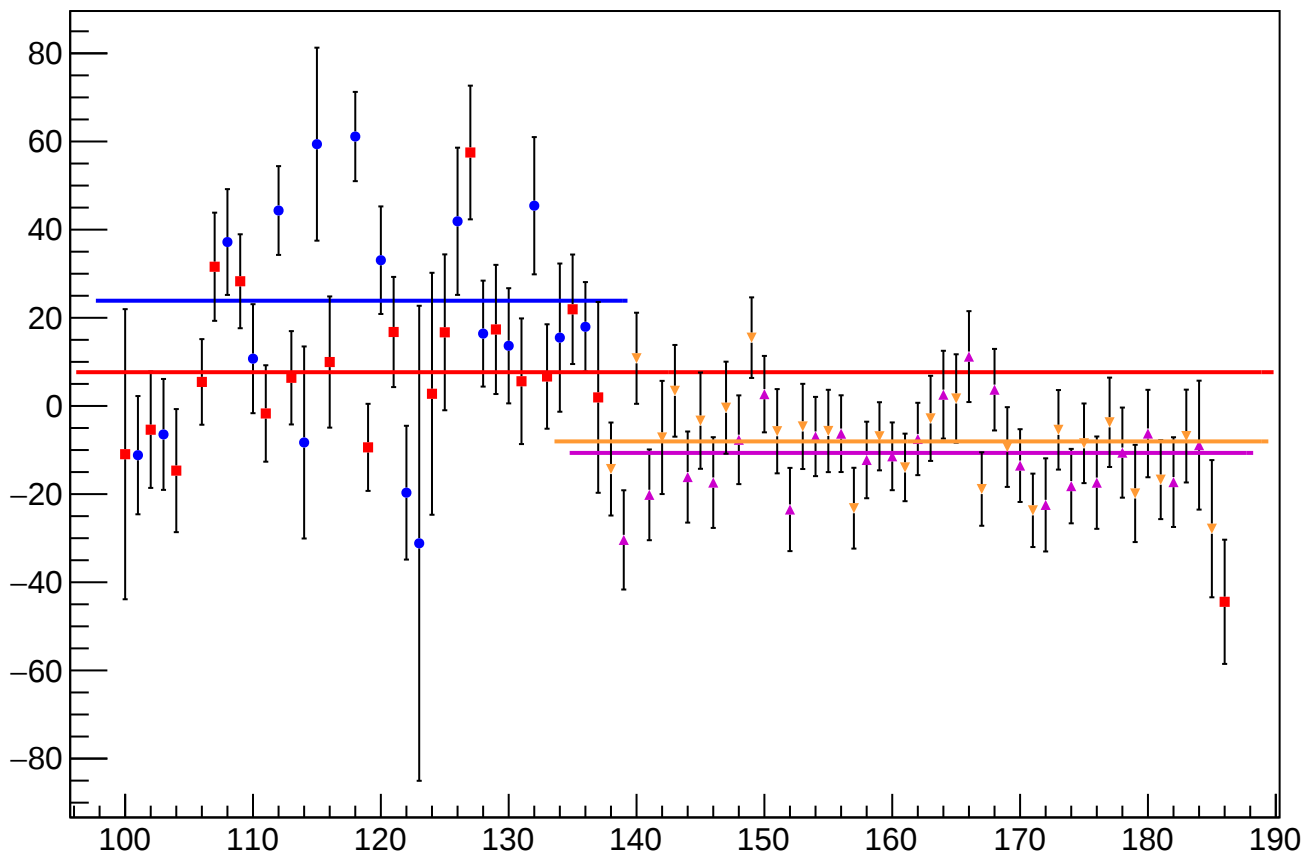
Right: 1252.703 $\pm$ 0.235 χ^2/NDF : 132989.3/36

In: 1263.931 $\pm$ 0.184 χ^2/NDF : 910195.3/39

Out: 1240.846 $\pm$ 0.175 χ^2/NDF : 1033052.0/44

All: 1251.750 $\pm$ 0.127 χ^2/NDF : 1951508.9/84

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.876 ± 3.256 $\chi^2/\text{NDF}: 52.0/16$

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

Right Out: 7.661 ± 2.942 $\chi^2/\text{NDF}: 42.4/19$

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

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

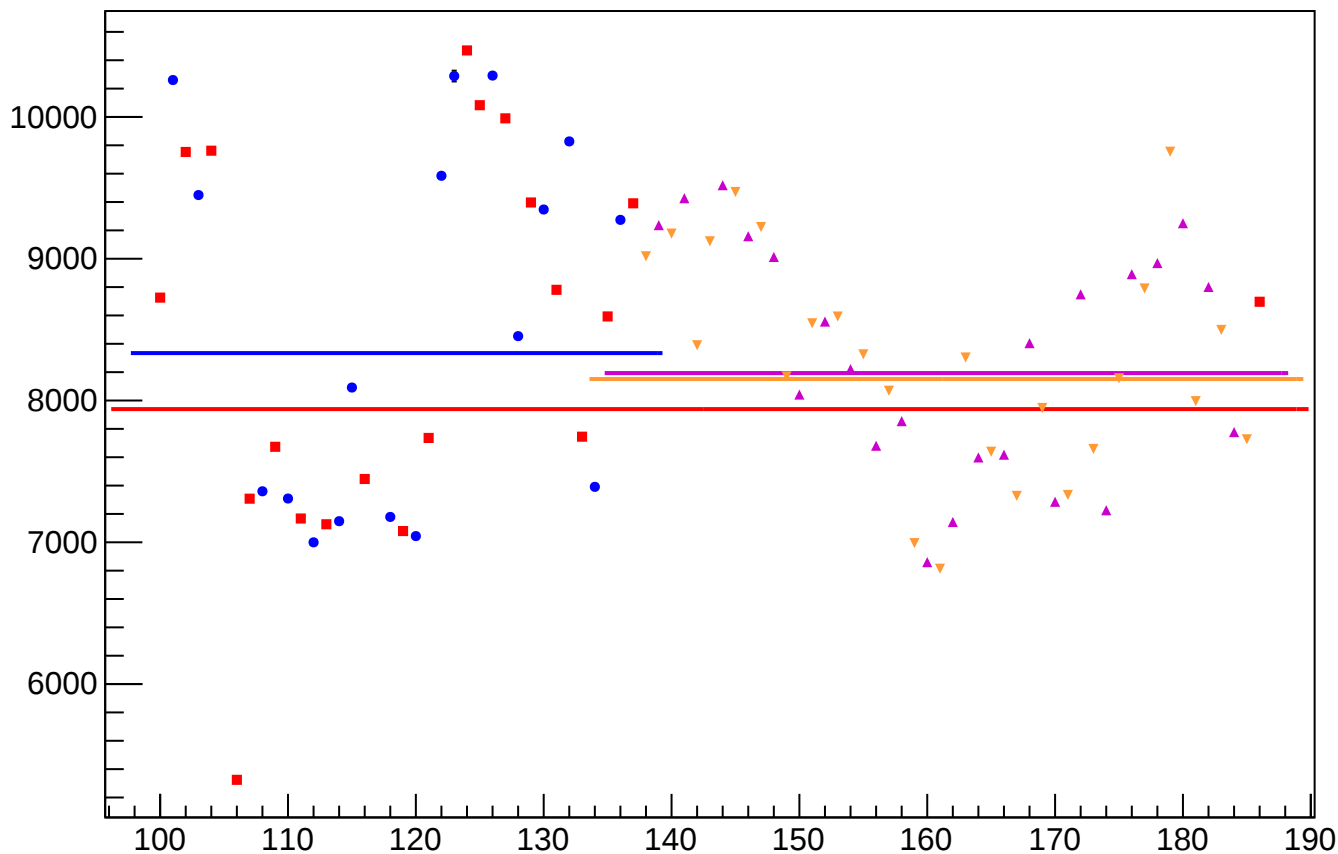
Right: 14.949 ± 2.183 $\chi^2/\text{NDF}: 108.0/36$

In: -1.280 ± 1.697 $\chi^2/\text{NDF}: 155.3/39$

Out: -3.359 ± 1.607 $\chi^2/\text{NDF}: 88.6/44$

All: -2.376 ± 1.167 $\chi^2/\text{NDF}: 244.8/84$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.433 $\pm$ 2.303 χ^2/NDF : 271366.4/16

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

Right Out: 7939.506 $\pm$ 2.081 χ^2/NDF : 394635.0/19

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

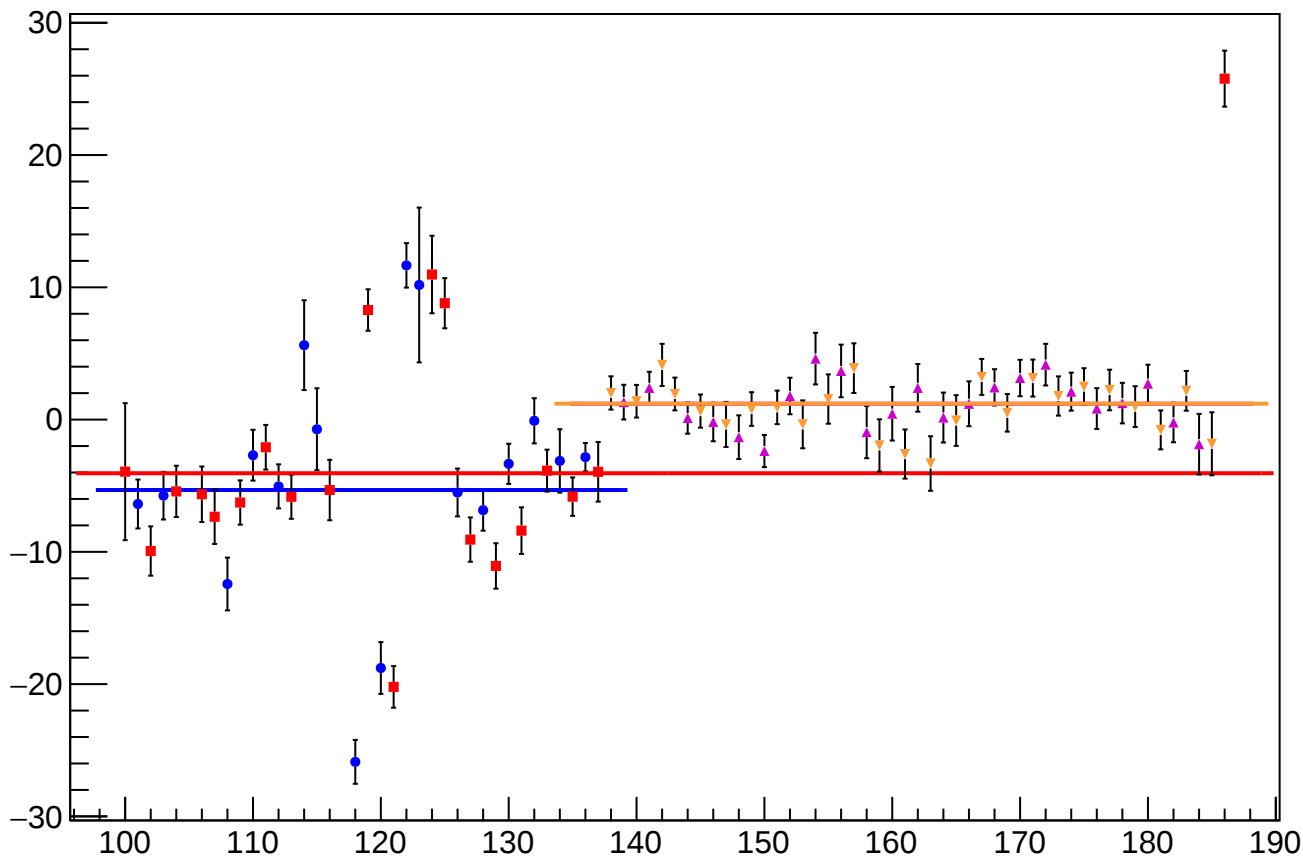
Right: 8117.016 $\pm$ 1.544 χ^2/NDF : 682196.8/36

In: 8231.854 $\pm$ 1.200 χ^2/NDF : 612468.2/39

Out: 8088.266 $\pm$ 1.136 χ^2/NDF : 723723.4/44

All: 8156.166 $\pm$ 0.825 χ^2/NDF : 1343743.6/84

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.325 ± 0.438 χ^2/NDF : 355.9/16

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

Right Out: -4.056 ± 0.414 χ^2/NDF : 489.9/19

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

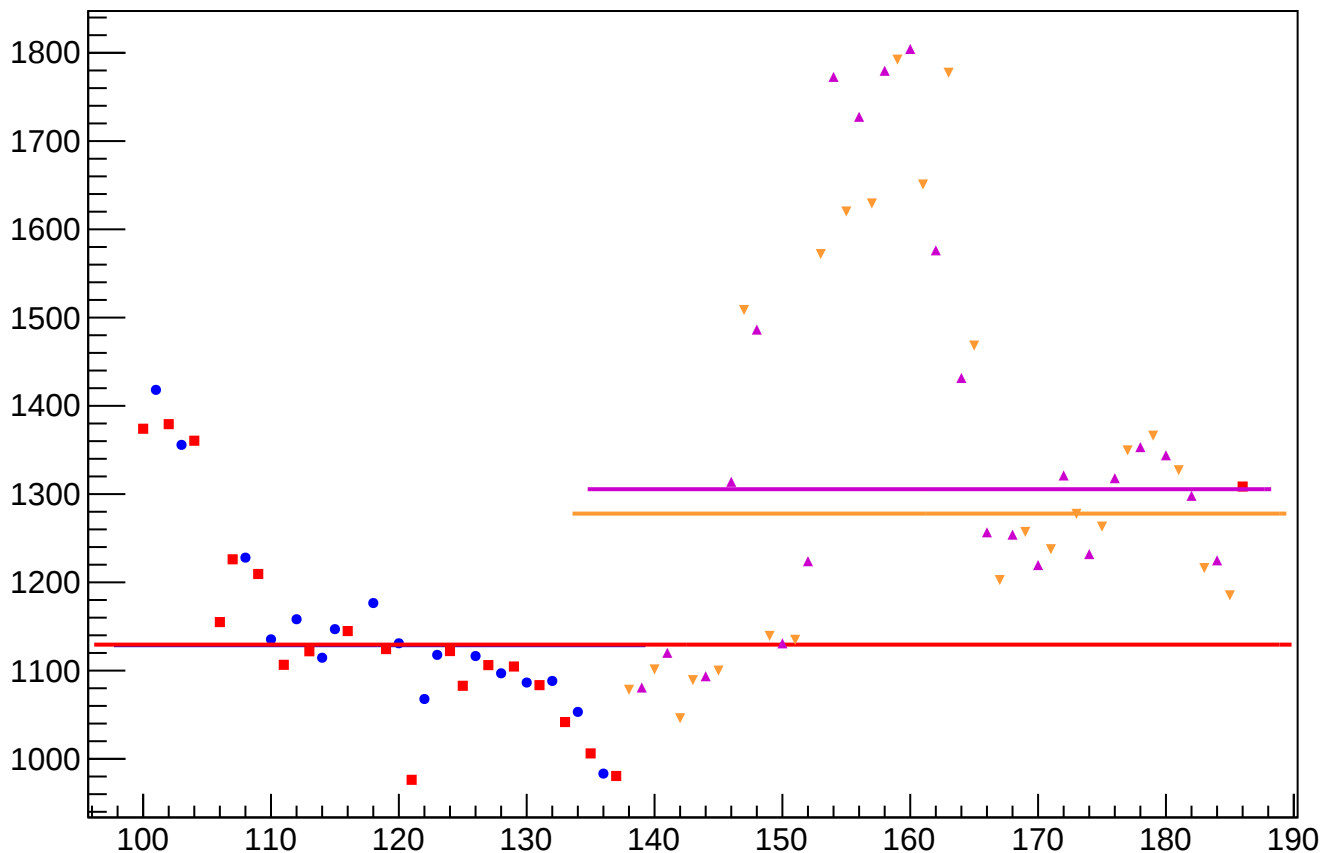
Right: -4.655 ± 0.301 χ^2/NDF : 850.2/36

In: -1.057 ± 0.257 χ^2/NDF : 532.3/39

Out: -0.625 ± 0.244 χ^2/NDF : 625.0/44

All: -0.830 ± 0.177 χ^2/NDF : 1158.8/84

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.798 $\pm$ 0.309 χ^2/NDF : 133077.7/16

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

Right Out: 1129.445 $\pm$ 0.293 χ^2/NDF : 144513.4/19

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

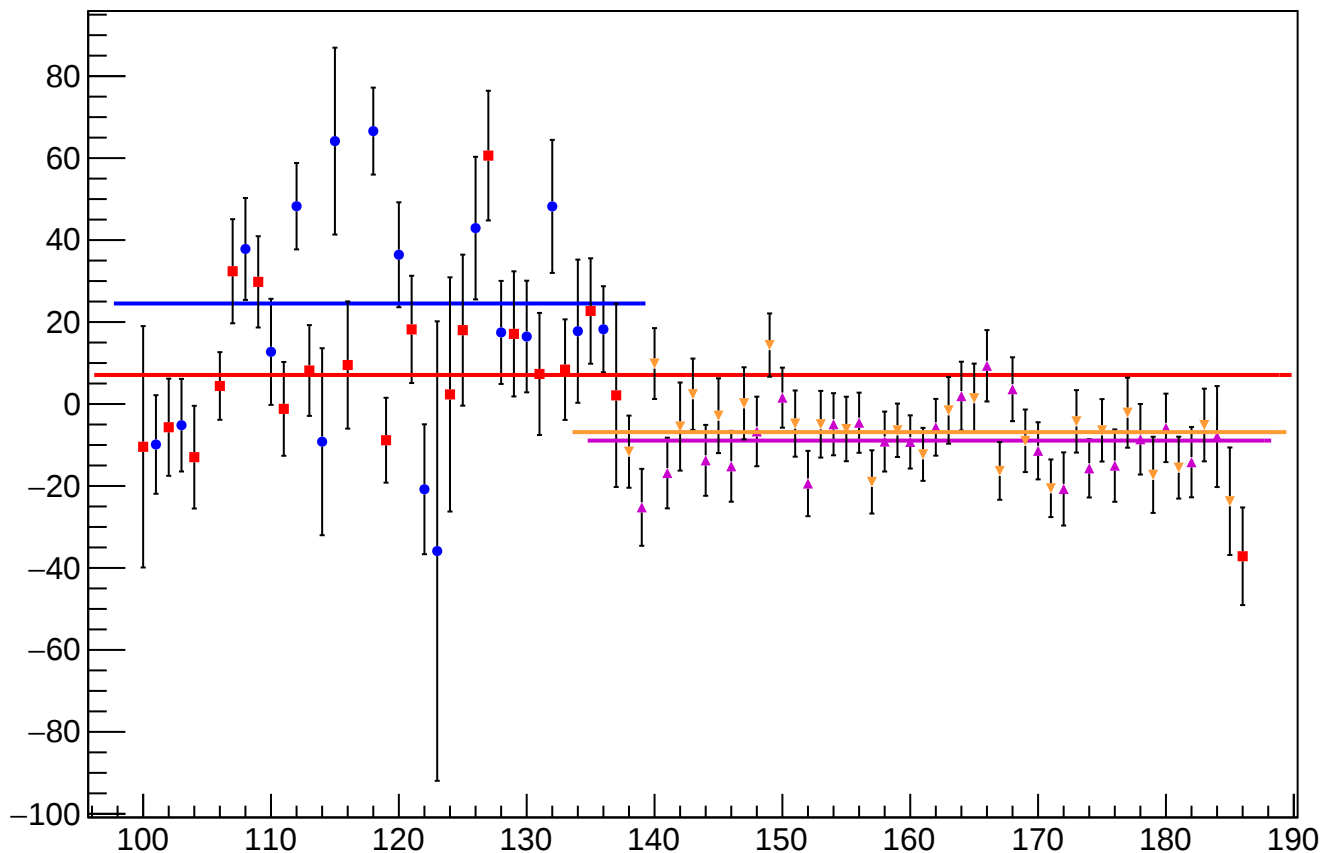
Right: 1129.139 $\pm$ 0.213 χ^2/NDF : 277593.4/36

In: 1244.431 $\pm$ 0.182 χ^2/NDF : 1106945.1/39

Out: 1226.285 $\pm$ 0.173 χ^2/NDF : 1190251.3/44

All: 1234.885 $\pm$ 0.125 χ^2/NDF : 2302427.7/84

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.527 ± 3.324 $\chi^2/\text{NDF}: 57.7/16$

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

Right Out: 7.086 ± 2.919 $\chi^2/\text{NDF}: 43.5/19$

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

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

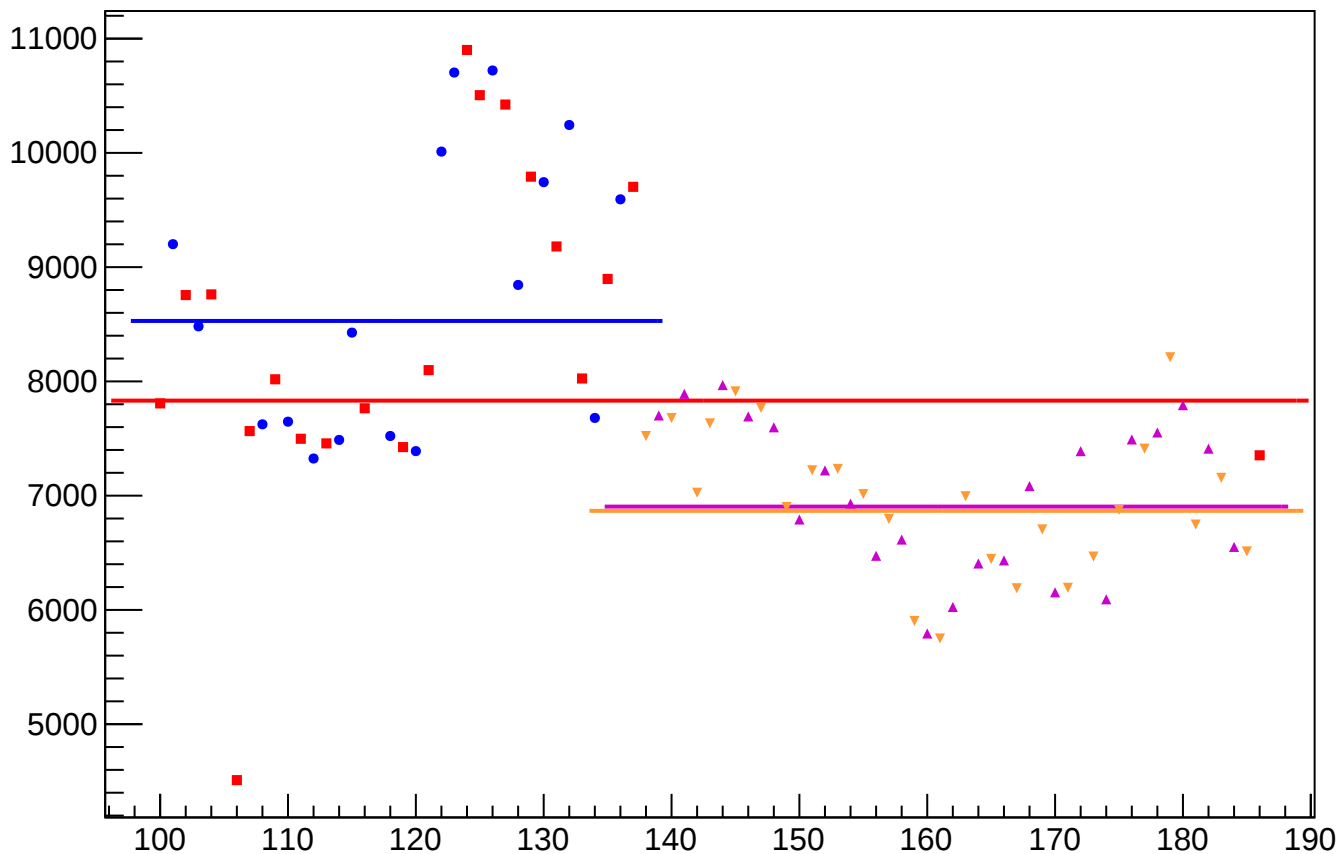
Right: 14.679 ± 2.193 $\chi^2/\text{NDF}: 116.8/36$

In: -2.153 ± 1.495 $\chi^2/\text{NDF}: 160.3/39$

Out: -3.585 ± 1.413 $\chi^2/\text{NDF}: 89.7/44$

All: -2.909 ± 1.027 $\chi^2/\text{NDF}: 250.4/84$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.154+/-2.350 χ^2/NDF : 207392.9/16

Left Out: 6867.371+/-1.142 χ^2/NDF : 306895.0/24

Right Out: 7831.873+/-2.064 χ^2/NDF : 556261.0/19

Left In: 6904.117+/-1.184 χ^2/NDF : 325912.6/22

Left: 6885.088+/-0.822 χ^2/NDF : 633306.5/47

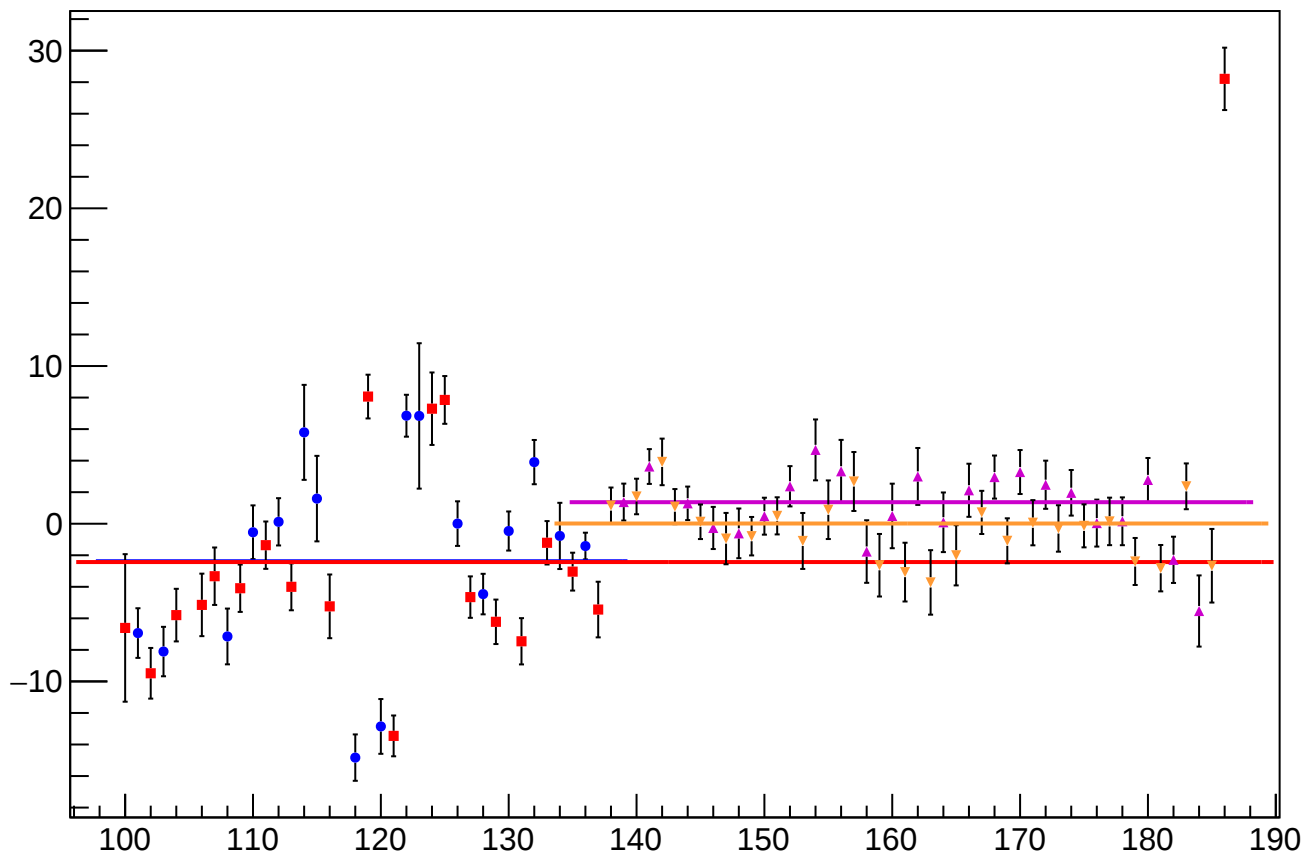
Right: 8135.441+/-1.551 χ^2/NDF : 813348.7/36

In: 7232.991+/-1.057 χ^2/NDF : 914587.6/39

Out: 7093.568+/-0.999 χ^2/NDF : 1030337.1/44

All: 7159.358+/-0.726 χ^2/NDF : 1954107.2/84

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.379+/-0.366 χ^2/NDF : 232.6/16

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

Right Out: -2.430+/-0.353 χ^2/NDF : 490.6/19

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

Left: 0.654+/-0.210 χ^2/NDF : 83.8/47

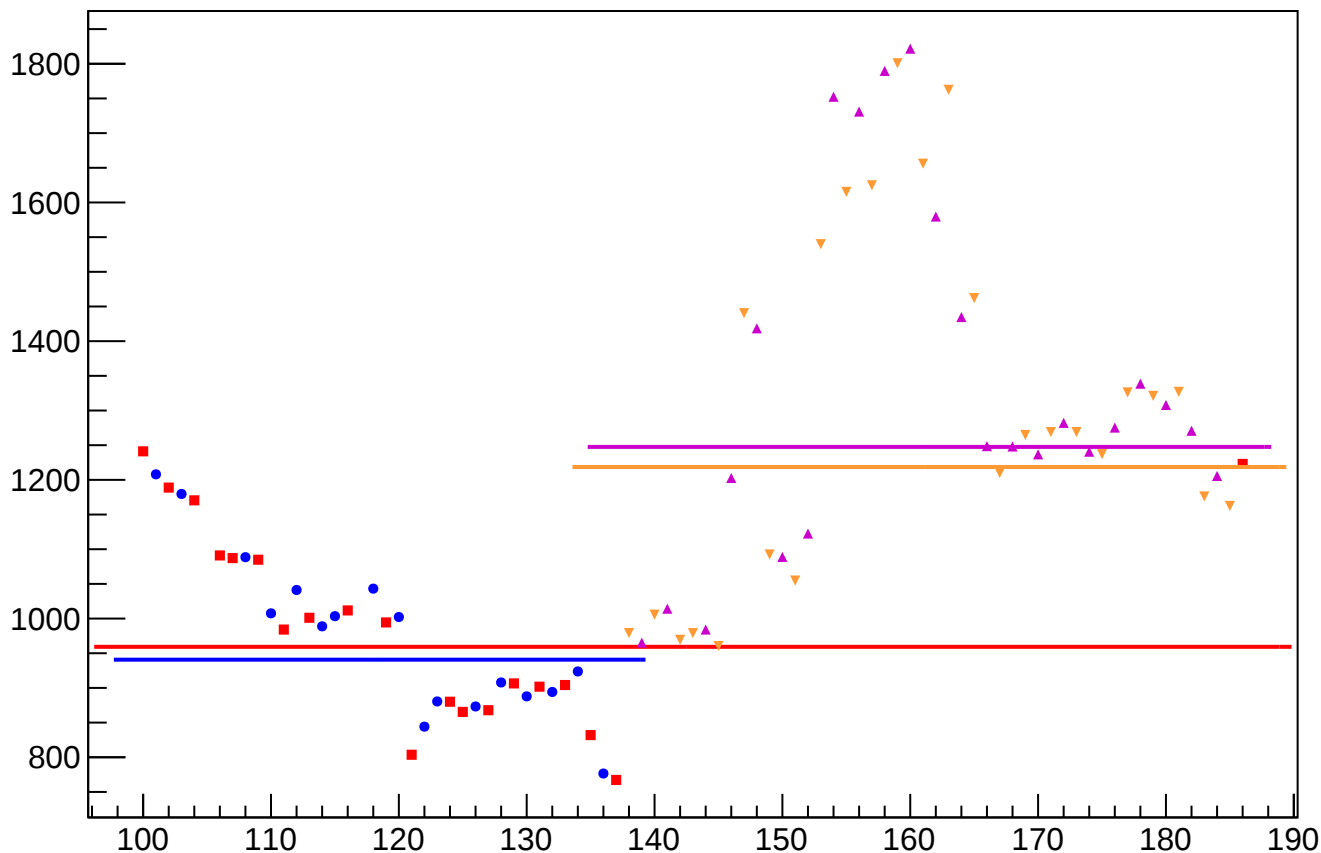
Right: -2.406+/-0.254 χ^2/NDF : 723.1/36

In: -0.171+/-0.235 χ^2/NDF :332.7/39

Out: -0.970+/-0.224 χ^2/NDF :554.2/44

All: -0.589+/-0.162 χ^2/NDF : 892.9/84

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.732 ± 0.259 χ^2/NDF : 241704.7/16

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

Right Out: 959.255 ± 0.250 χ^2/NDF : 257069.6/19

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

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

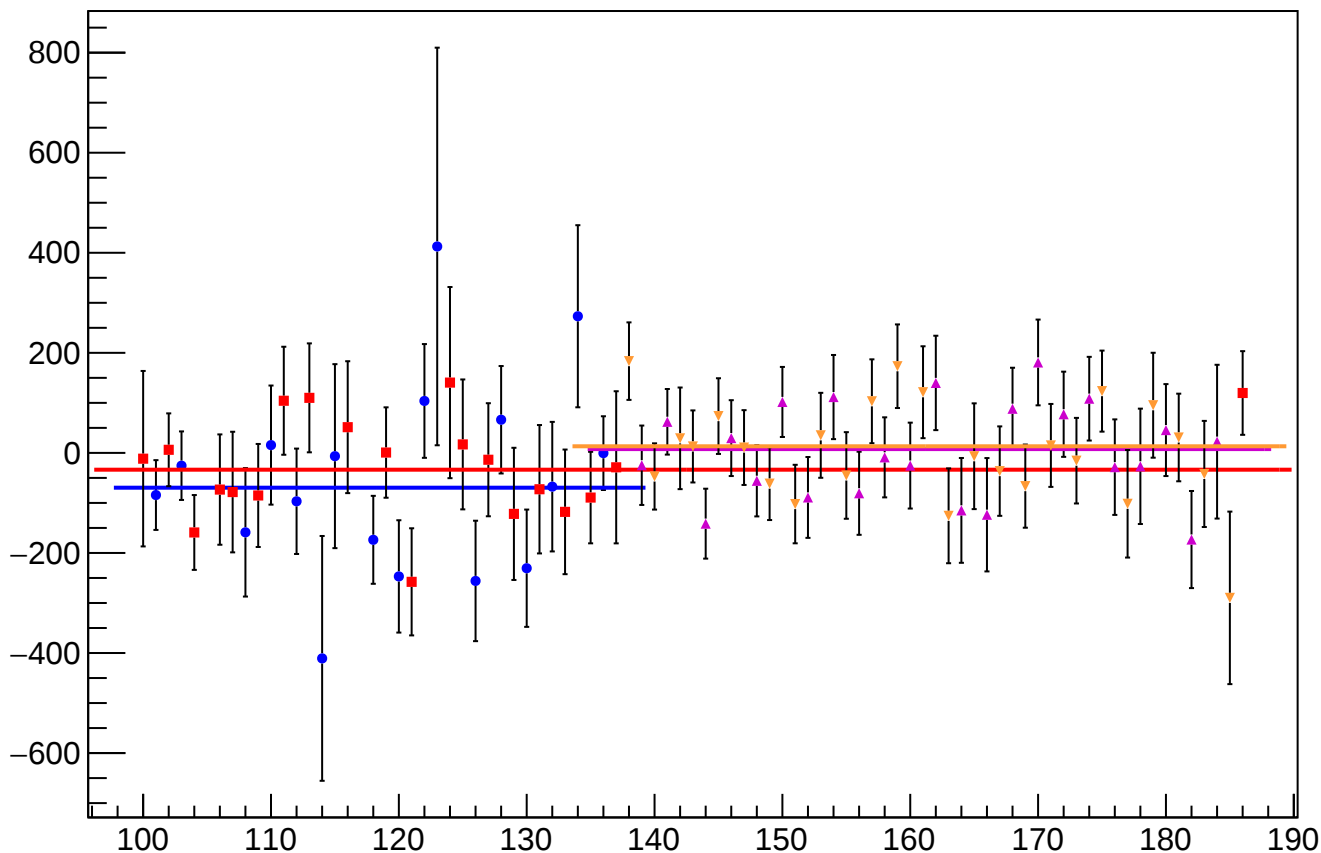
Right: 950.331 ± 0.180 χ^2/NDF : 501425.7/36

In: 1121.644 ± 0.166 χ^2/NDF : 2142805.8/39

Out: 1114.138 ± 0.158 χ^2/NDF : 2167028.5/44

All: 1117.719 ± 0.115 χ^2/NDF : 4310904.8/84

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -69.559 ± 25.981 χ^2/NDF : 21.6/16

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

Right Out: -33.576 ± 24.000 χ^2/NDF : 17.7/19

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

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

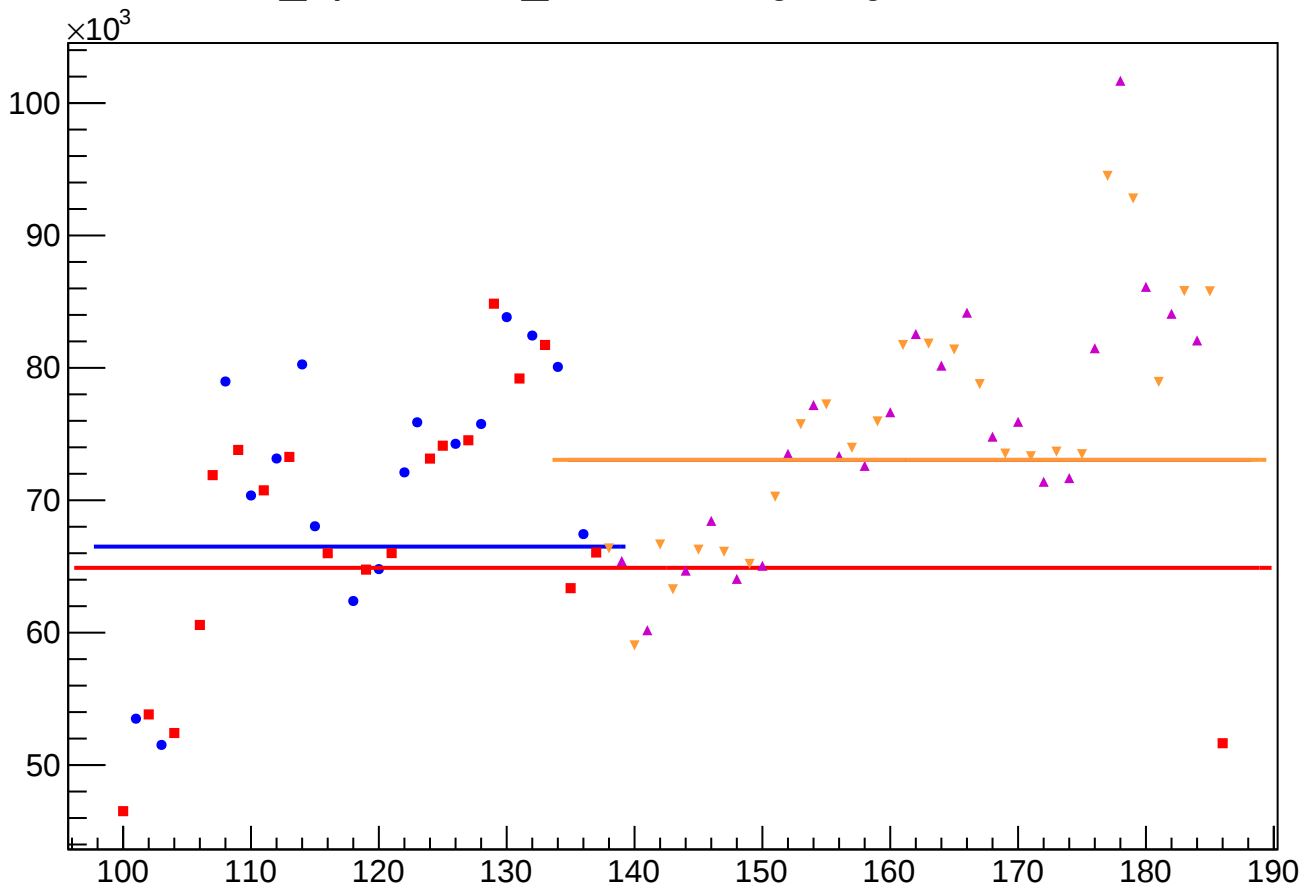
Right: -50.144 ± 17.629 χ^2/NDF : 40.3/36

In: -16.793 ± 14.612 χ^2/NDF : 55.7/39

Out: -2.603 ± 13.951 χ^2/NDF : 47.0/44

All: -9.370 ± 10.091 χ^2/NDF : 103.2/84

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66500.038 $\pm$ 18.371 χ^2/NDF : 320048.0/16

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

Right Out: 64896.611 $\pm$ 16.970 χ^2/NDF : 352994.4/19

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

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

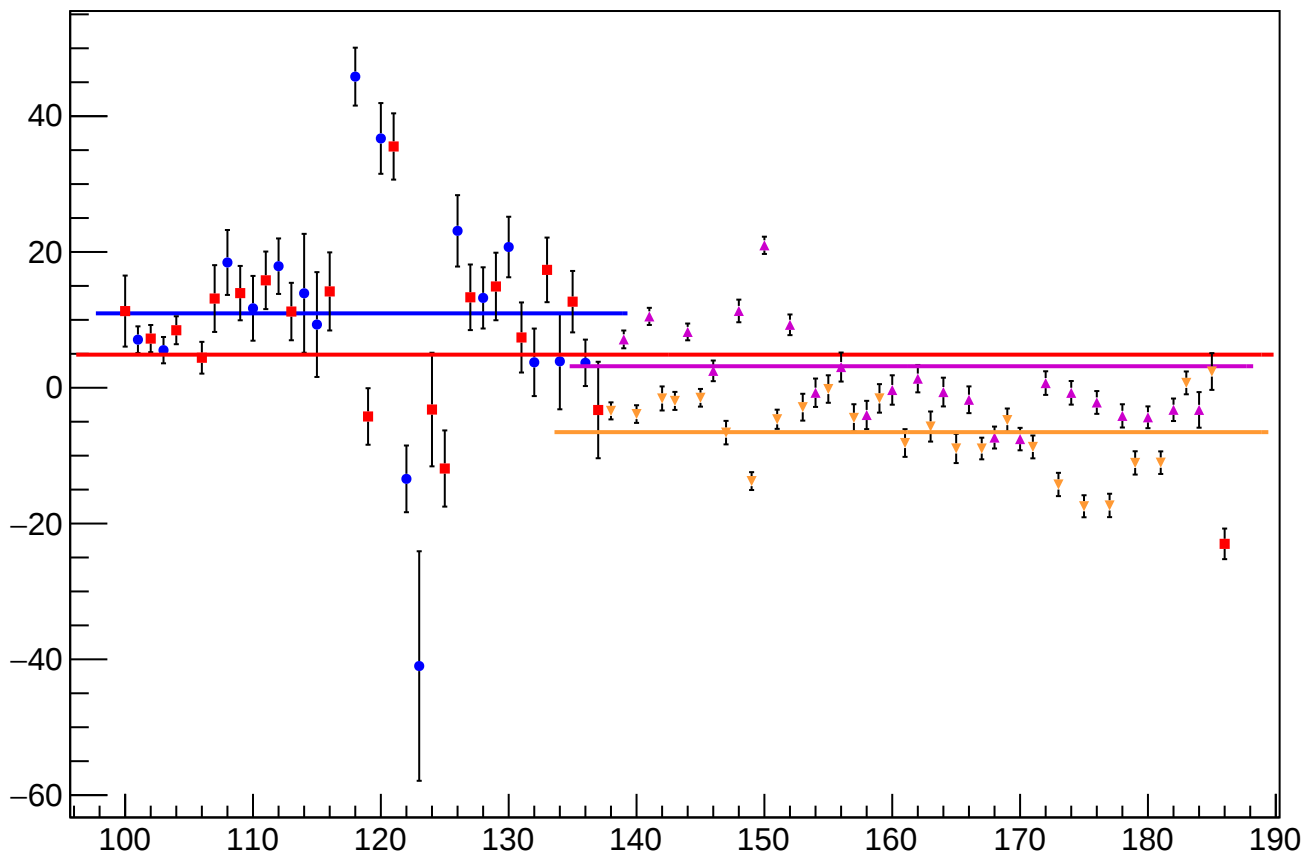
Right: 65634.866 $\pm$ 12.466 χ^2/NDF : 677152.7/36

In: 70975.139 $\pm$ 10.332 χ^2/NDF : 870362.5/39

Out: 70297.643 $\pm$ 9.865 χ^2/NDF : 979036.9/44

All: 70620.733 $\pm$ 7.135 χ^2/NDF : 1851648.6/80

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.959 $\pm$ 0.944 χ^2/NDF : 160.6/16

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

Right Out: 4.877 $\pm$ 0.809 χ^2/NDF : 251.2/19

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

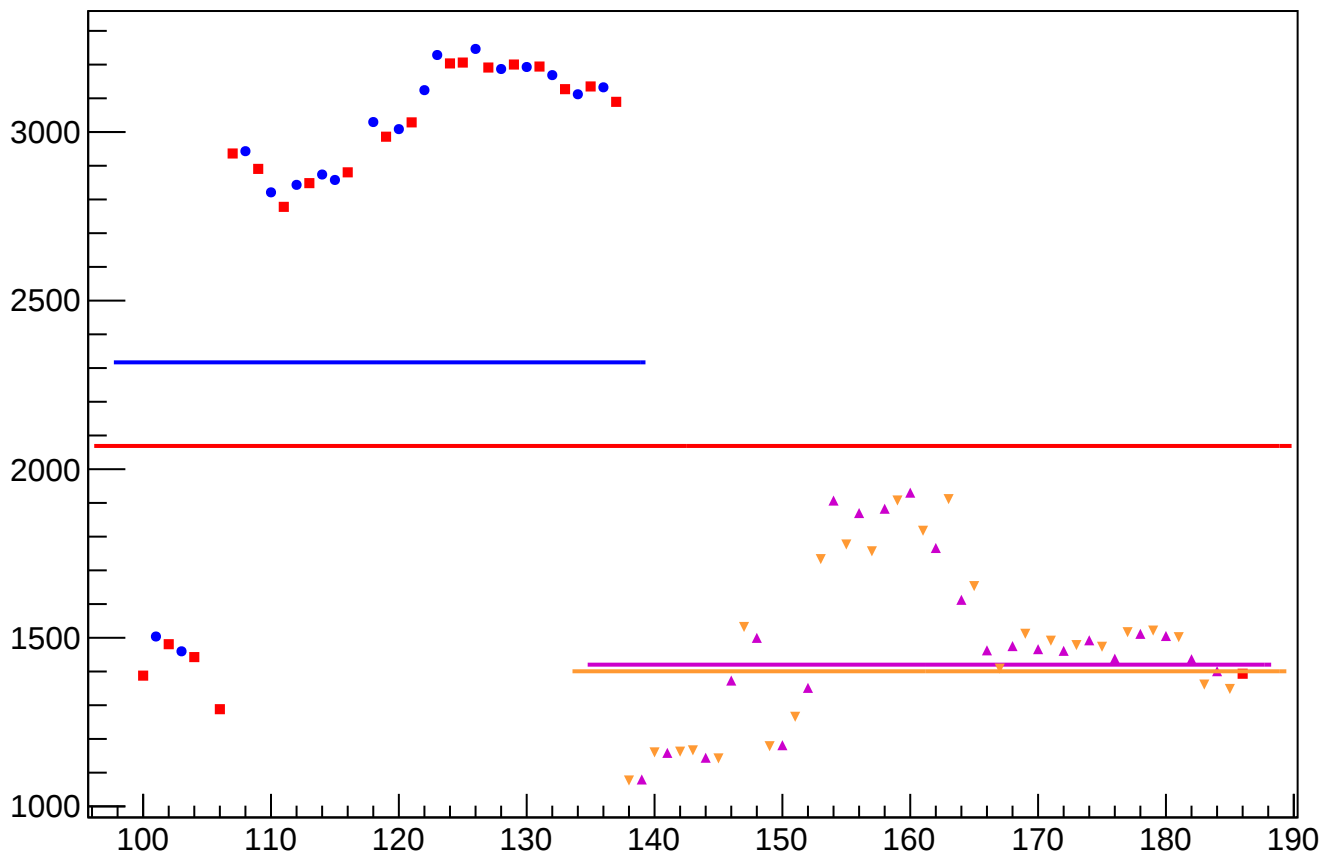
Right: 7.453 $\pm$ 0.614 χ^2/NDF : 435.7/36

In: 4.095 $\pm$ 0.325 χ^2/NDF : 707.9/39

Out: -4.894 $\pm$ 0.307 χ^2/NDF : 674.2/44

All: -0.659 $\pm$ 0.223 χ^2/NDF : 1786.0/84

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2316.901 $\pm$ 0.668 χ^2/NDF : 1405097.4/16

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

Right Out: 2068.952 $\pm$ 0.572 χ^2/NDF : 1955627.2/19

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

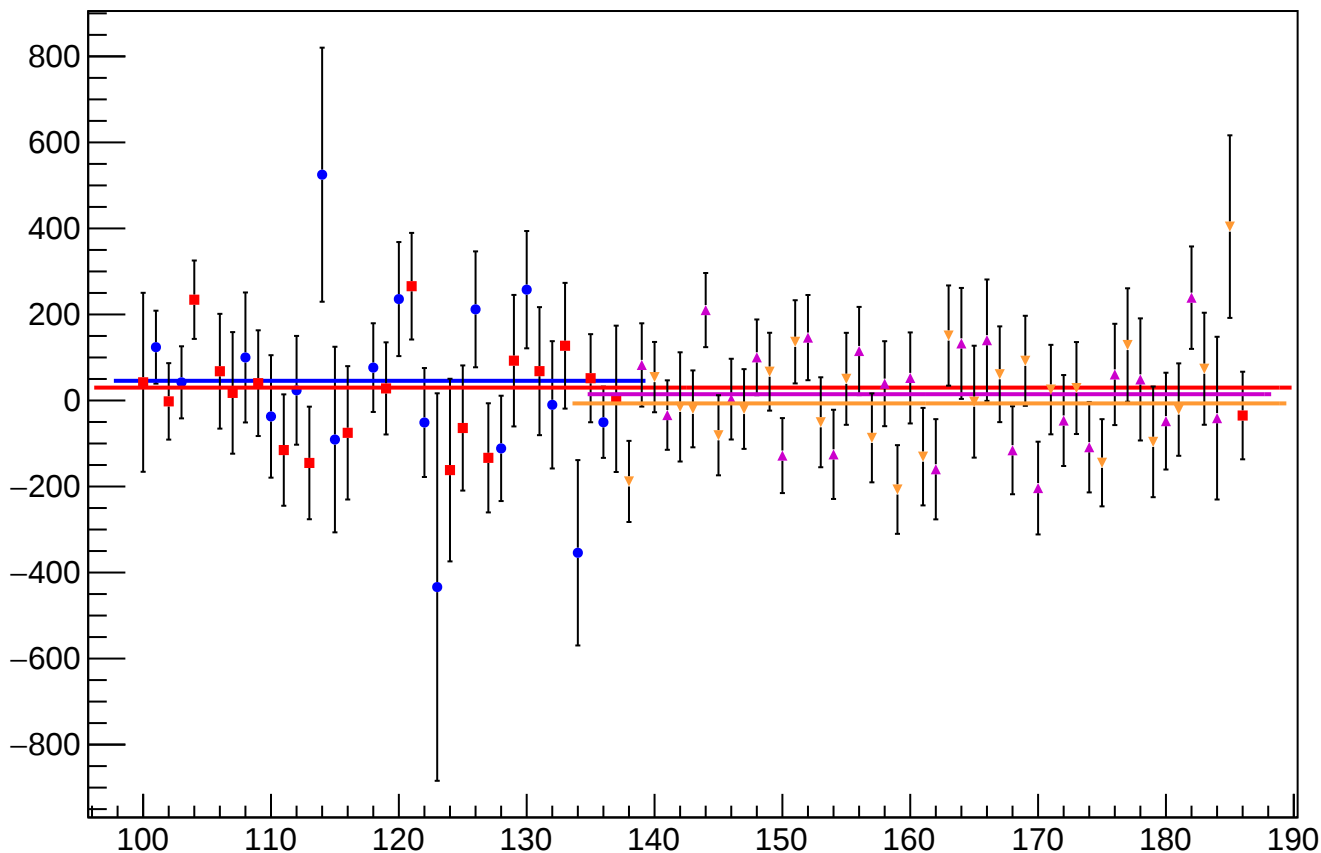
Right: 2173.955 $\pm$ 0.434 χ^2/NDF : 3440237.3/36

In: 1526.678 $\pm$ 0.230 χ^2/NDF : 3899774.6/39

Out: 1496.827 $\pm$ 0.217 χ^2/NDF : 4161292.7/44

All: 1510.892 $\pm$ 0.158 χ^2/NDF : 8069976.7/84

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 45.747+/-30.474 χ^2/NDF : 18.8/16

Left Out: -6.789+/-21.213 χ^2/NDF :24.7/24

Right Out: 29.950+/-28.317 χ^2/NDF : 16.4/19

Left In: 14.611+/-21.846 χ^2/NDF :29.8/22

Left: 3.596+/-15.219 χ^2/NDF : 55.0/47

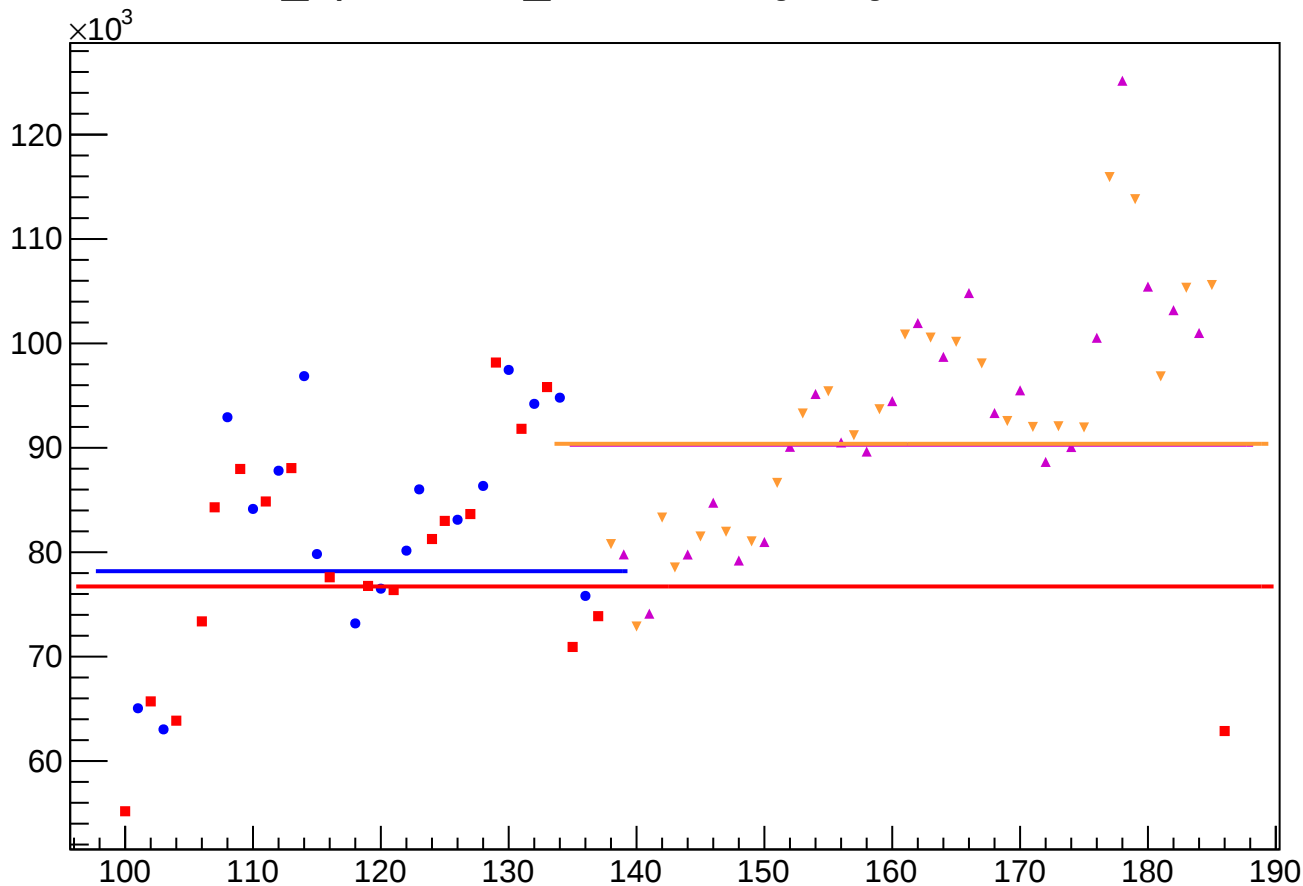
Right: 37.270+/-20.744 χ^2/NDF : 35.3/36

In: 25.180+/-17.755 χ^2/NDF :49.3/39

Out: 6.417+/-16.978 χ^2/NDF :42.2/44

All: 15.379+/-12.271 χ^2/NDF : 92.1/84

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78183.588 $\pm$ 21.548 χ^2/NDF : 250278.3/16

Left Out: 90384.853 $\pm$ 15.000 χ^2/NDF : 461648.2/24

Right Out: 76719.924 $\pm$ 20.023 χ^2/NDF : 287354.9/19

Left In: 90293.591 $\pm$ 15.448 χ^2/NDF : 461337.5/22

Left: 90340.563 $\pm$ 10.761 χ^2/NDF : 923003.7/47

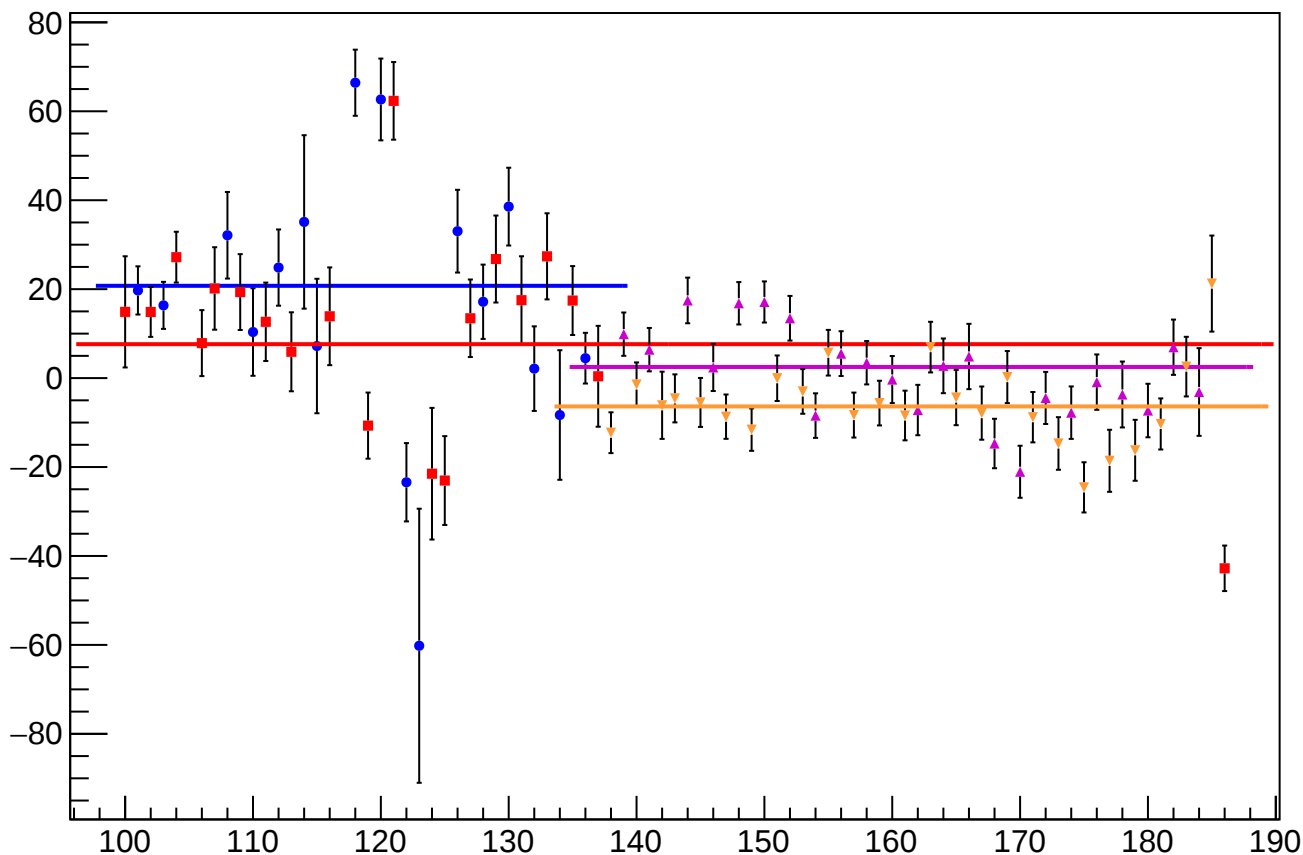
Right: 77398.145 $\pm$ 14.668 χ^2/NDF : 540109.1/36

In: 86182.639 $\pm$ 12.555 χ^2/NDF : 920241.5/39

Out: 85472.827 $\pm$ 12.005 χ^2/NDF : 1047327.4/44

All: 85811.854 $\pm$ 8.677 χ^2/NDF : 1969238.6/68

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.754 $\pm$ 2.039 χ^2 /NDF: 117.4/16

Left Out: -6.370 $\pm$ 1.124 χ^2 /NDF:45.5/24

Right Out: 7.629 $\pm$ 1.828 χ^2 /NDF: 185.3/19

Left In: 2.501 $\pm$ 1.156 χ^2 /NDF:78.4/22

Left: -2.059 $\pm$ 0.806 χ^2 /NDF: 154.1/47

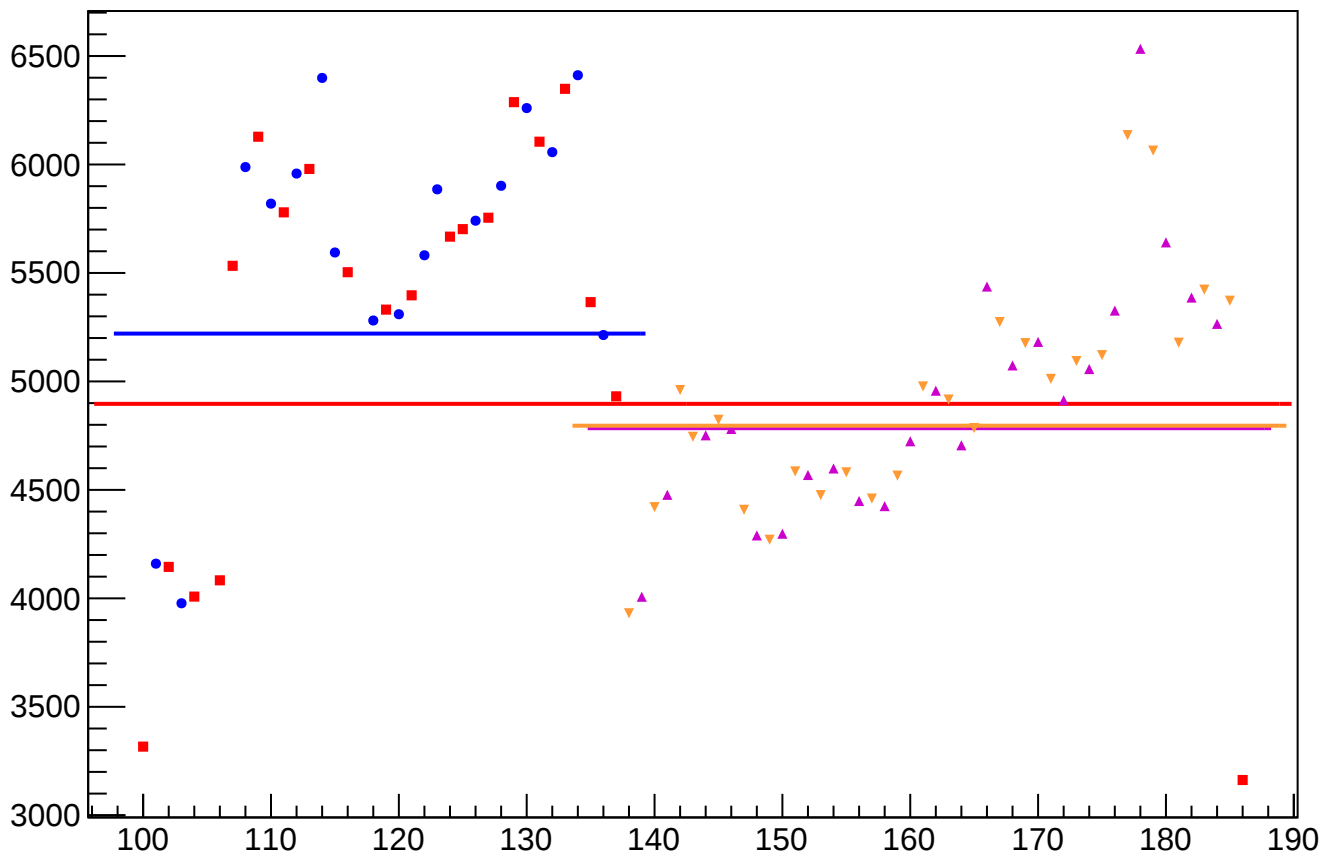
Right: 13.480 $\pm$ 1.361 χ^2 /NDF: 325.6/36

In: 6.942 $\pm$ 1.006 χ^2 /NDF:256.4/39

Out: -2.531 $\pm$ 0.957 χ^2 /NDF:273.3/44

All: 1.973 $\pm$ 0.693 χ^2 /NDF: 576.2/84

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5220.495 ± 1.441 $\chi^2/\text{NDF}: 311533.7/16$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 4896.577 ± 1.293 $\chi^2/\text{NDF}: 650805.2/19$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

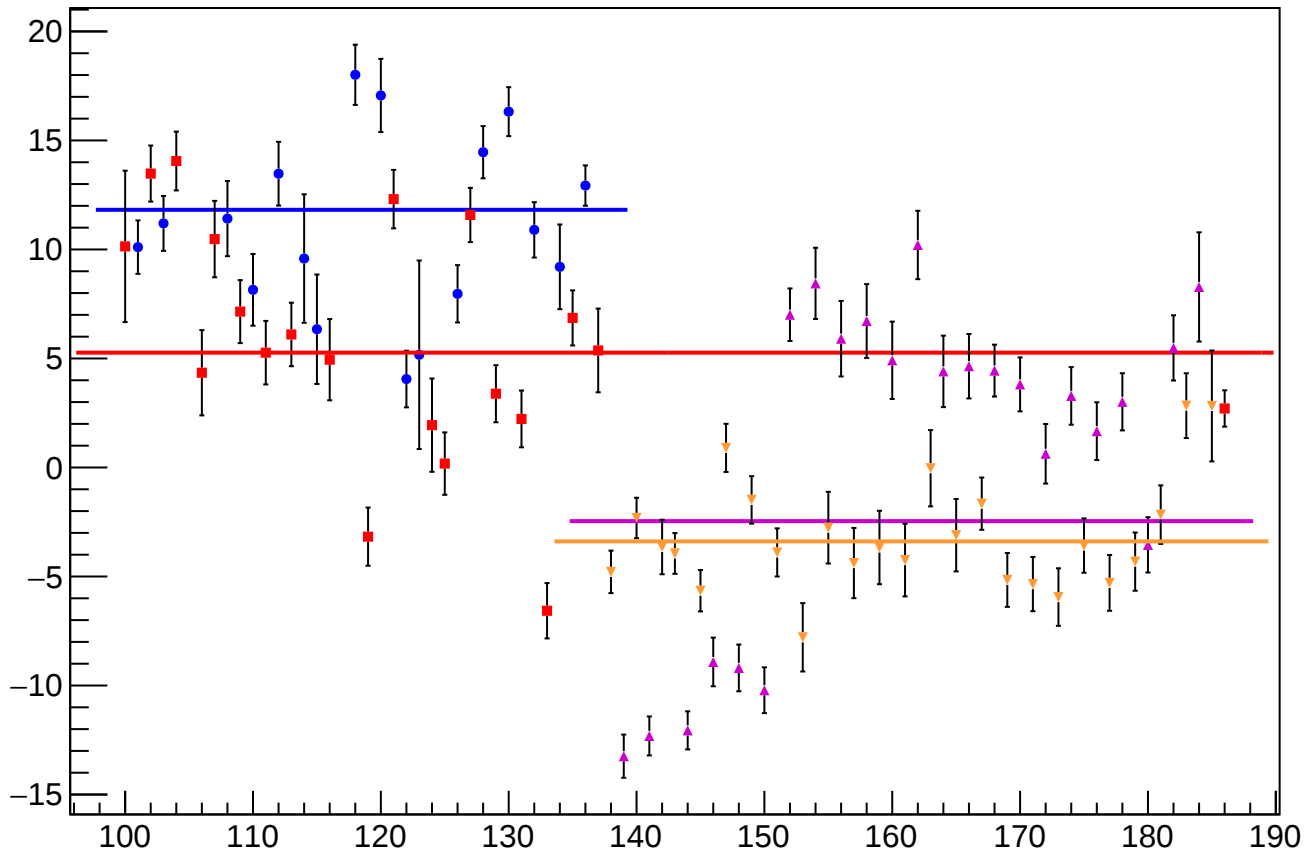
Right: 5040.978 ± 0.962 $\chi^2/\text{NDF}: 990323.8/36$

In: 4890.526 ± 0.711 $\chi^2/\text{NDF}: 738288.2/39$

Out: 4823.470 ± 0.677 $\chi^2/\text{NDF}: 1016460.8/44$

All: 4855.357 ± 0.490 $\chi^2/\text{NDF}: 1759413.9/84$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.819 ± 0.345 $\chi^2/\text{NDF}: 115.1/16$

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

Right Out: 5.267 ± 0.314 $\chi^2/\text{NDF}: 310.2/19$

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

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

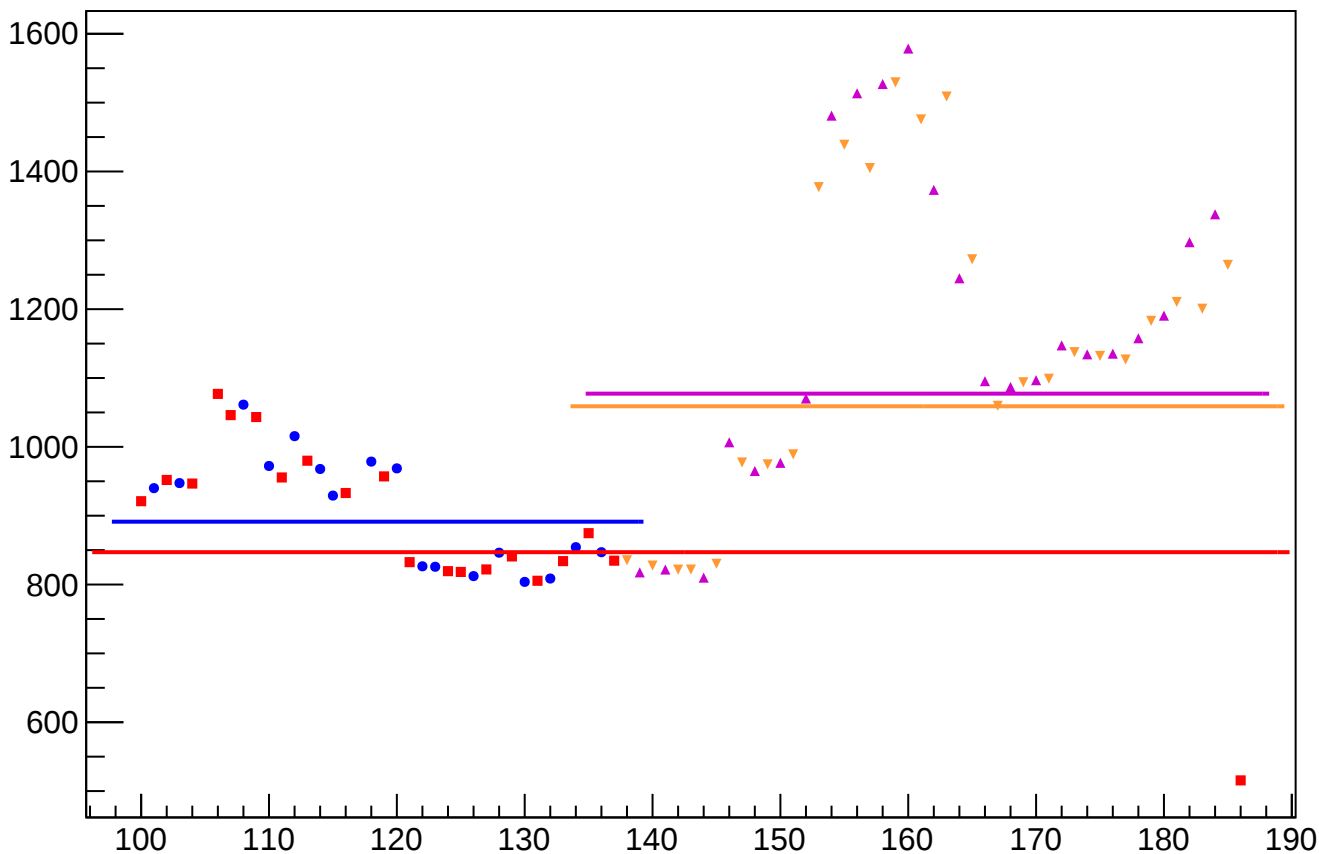
Right: 8.235 ± 0.232 $\chi^2/\text{NDF}: 622.3/36$

In: 2.819 ± 0.210 $\chi^2/\text{NDF}: 2121.8/39$

Out: 0.004 ± 0.197 $\chi^2/\text{NDF}: 849.6/44$

All: 1.320 ± 0.144 $\chi^2/\text{NDF}: 3067.2/84$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.299 $\pm$ 0.244 χ^2 /NDF: 101327.8/16

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF:1403222.2/24

Right Out: 847.008 $\pm$ 0.222 χ^2 /NDF: 482900.2/19

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

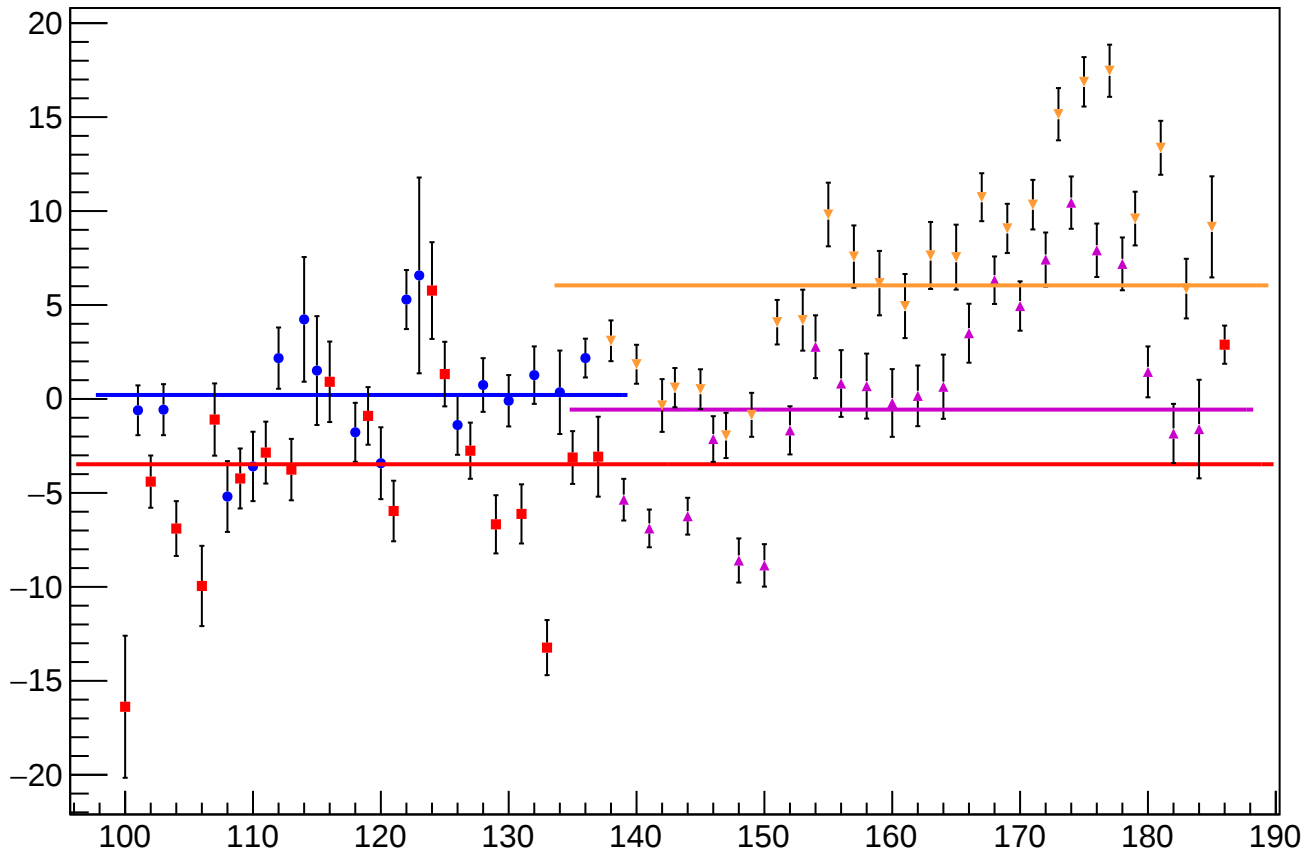
Right: 867.074 $\pm$ 0.164 χ^2 /NDF: 602240.6/36

In: 1008.519 $\pm$ 0.148 χ^2 /NDF:1747667.3/39

Out: 975.855 $\pm$ 0.139 χ^2 /NDF:2439574.6/44

All: 991.128 $\pm$ 0.101 χ^2 /NDF: 4213033.2/84

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.396 $\chi^2/\text{NDF}: 38.8/16$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: -3.474 ± 0.362 $\chi^2/\text{NDF}: 149.7/19$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

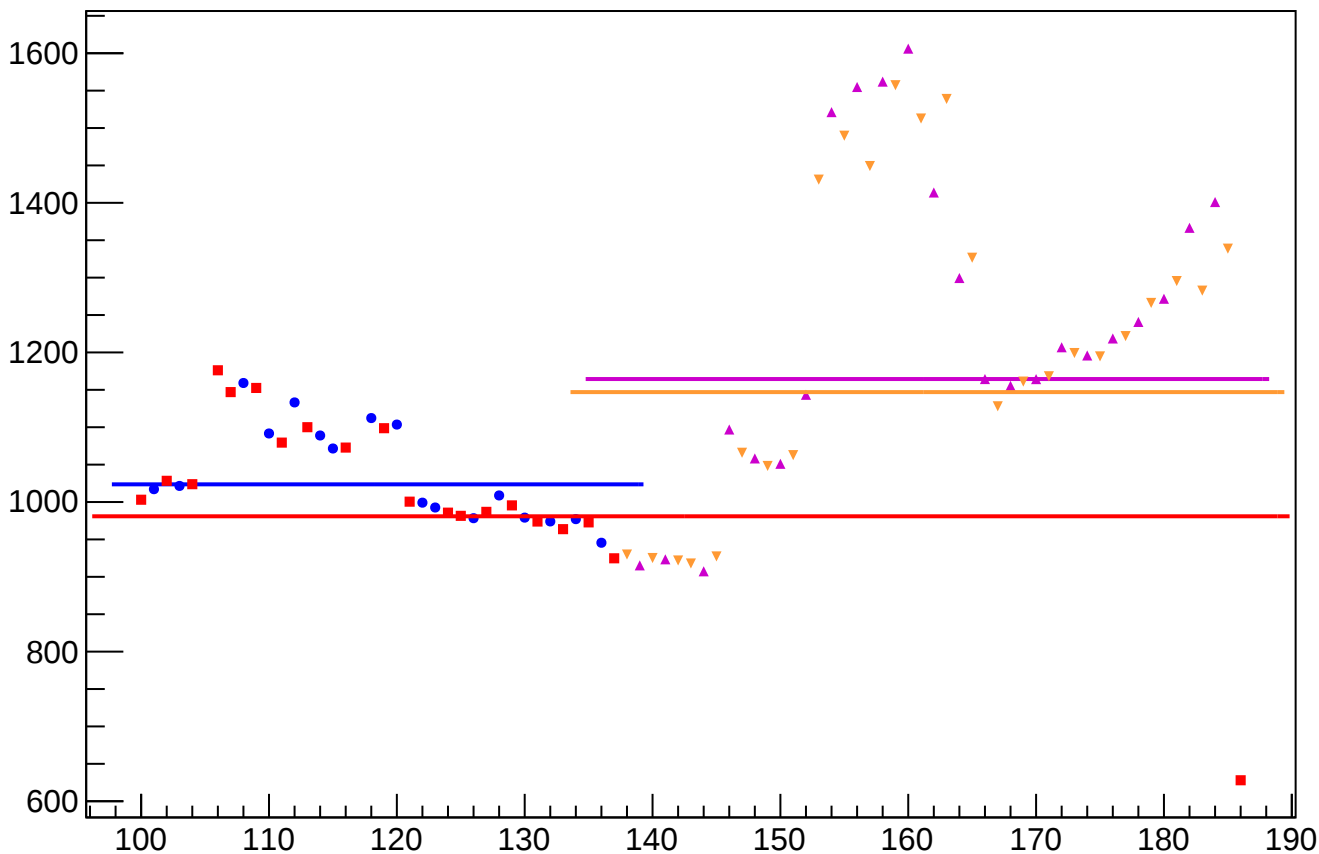
Right: -1.794 ± 0.267 $\chi^2/\text{NDF}: 235.8/36$

In: -0.301 ± 0.231 $\chi^2/\text{NDF}: 458.3/39$

Out: 2.615 ± 0.217 $\chi^2/\text{NDF}: 1023.0/44$

All: 1.245 ± 0.158 $\chi^2/\text{NDF}: 1565.9/84$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.643 $\pm$ 0.280 χ^2 /NDF: 52282.5/16

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

Right Out: 980.929 $\pm$ 0.256 χ^2 /NDF: 335976.8/19

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

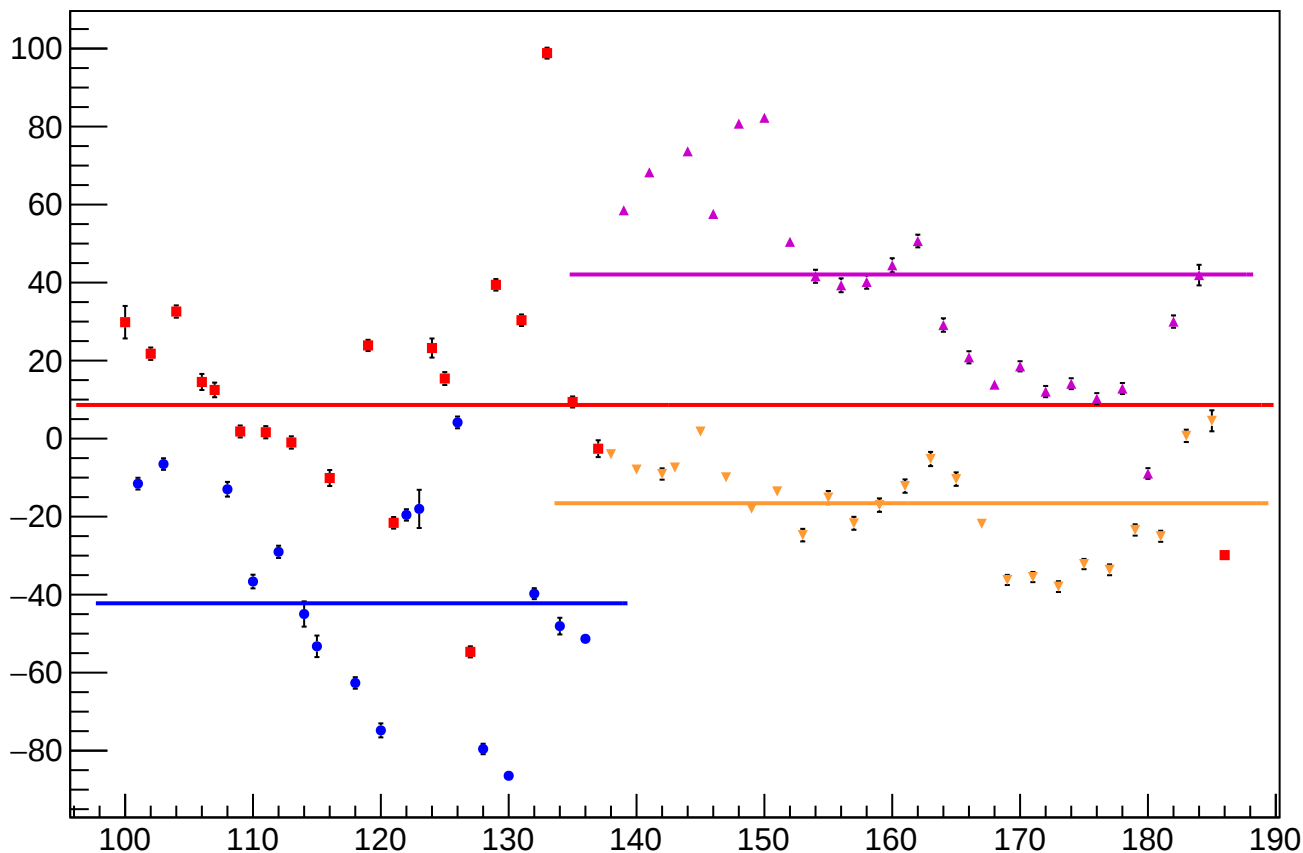
Right: 1000.390 $\pm$ 0.189 χ^2 /NDF: 400947.2/36

In: 1116.535 $\pm$ 0.163 χ^2 /NDF:1163464.0/39

Out: 1087.136 $\pm$ 0.154 χ^2 /NDF:1650896.5/44

All: 1100.950 $\pm$ 0.112 χ^2 /NDF: 2831564.6/84

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.222 ± 0.388 χ^2/NDF : 5097.2/16

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: 8.628 ± 0.354 χ^2/NDF : 9428.3/19

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.318 ± 0.199 χ^2/NDF : 31846.5/47

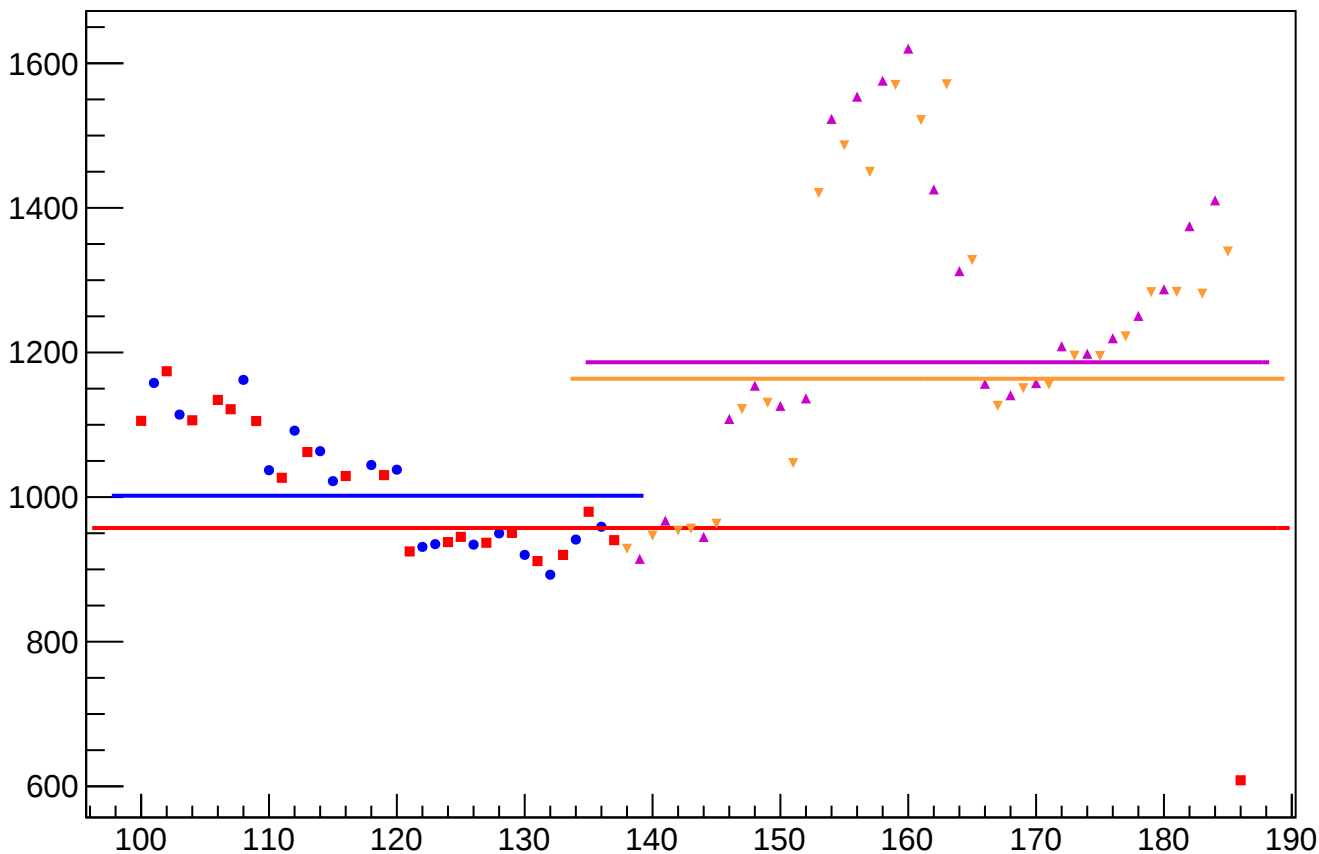
Right: -14.466 ± 0.261 χ^2/NDF : 23906.7/36

In: 11.972 ± 0.232 χ^2/NDF : 43795.1/39

Out: -7.067 ± 0.217 χ^2/NDF : 14518.5/44

All: 1.837 ± 0.159 χ^2/NDF : 61905.2/84

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.897 ± 0.274 $\chi^2/\text{NDF}: 95203.3/16$

Left Out: 1163.691 ± 0.195 $\chi^2/\text{NDF}: 936079.1/24$

Right Out: 957.252 ± 0.250 $\chi^2/\text{NDF}: 384317.1/19$

Left In: 1186.476 ± 0.204 $\chi^2/\text{NDF}: 833420.3/22$

Left: 1174.525 ± 0.141 $\chi^2/\text{NDF}: 1776015.7/47$

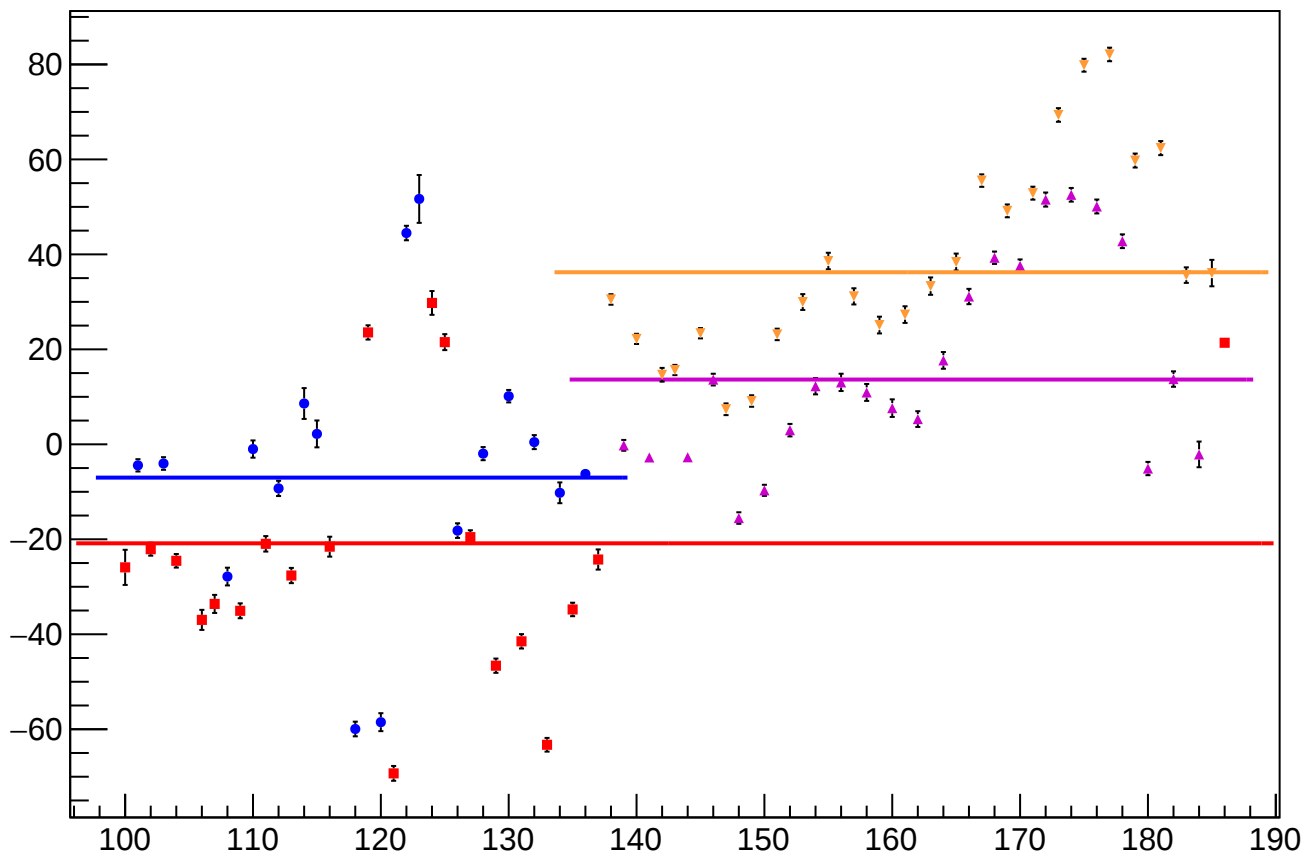
Right: 977.527 ± 0.185 $\chi^2/\text{NDF}: 493983.5/36$

In: 1120.559 ± 0.164 $\chi^2/\text{NDF}: 1219786.0/39$

Out: 1085.850 ± 0.154 $\chi^2/\text{NDF}: 1744566.1/44$

All: 1102.082 ± 0.112 $\chi^2/\text{NDF}: 2988224.9/84$

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -7.011 ± 0.389 χ^2/NDF : 3634.7/16

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

Right Out: -20.848 ± 0.355 χ^2/NDF : 6367.2/19

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

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

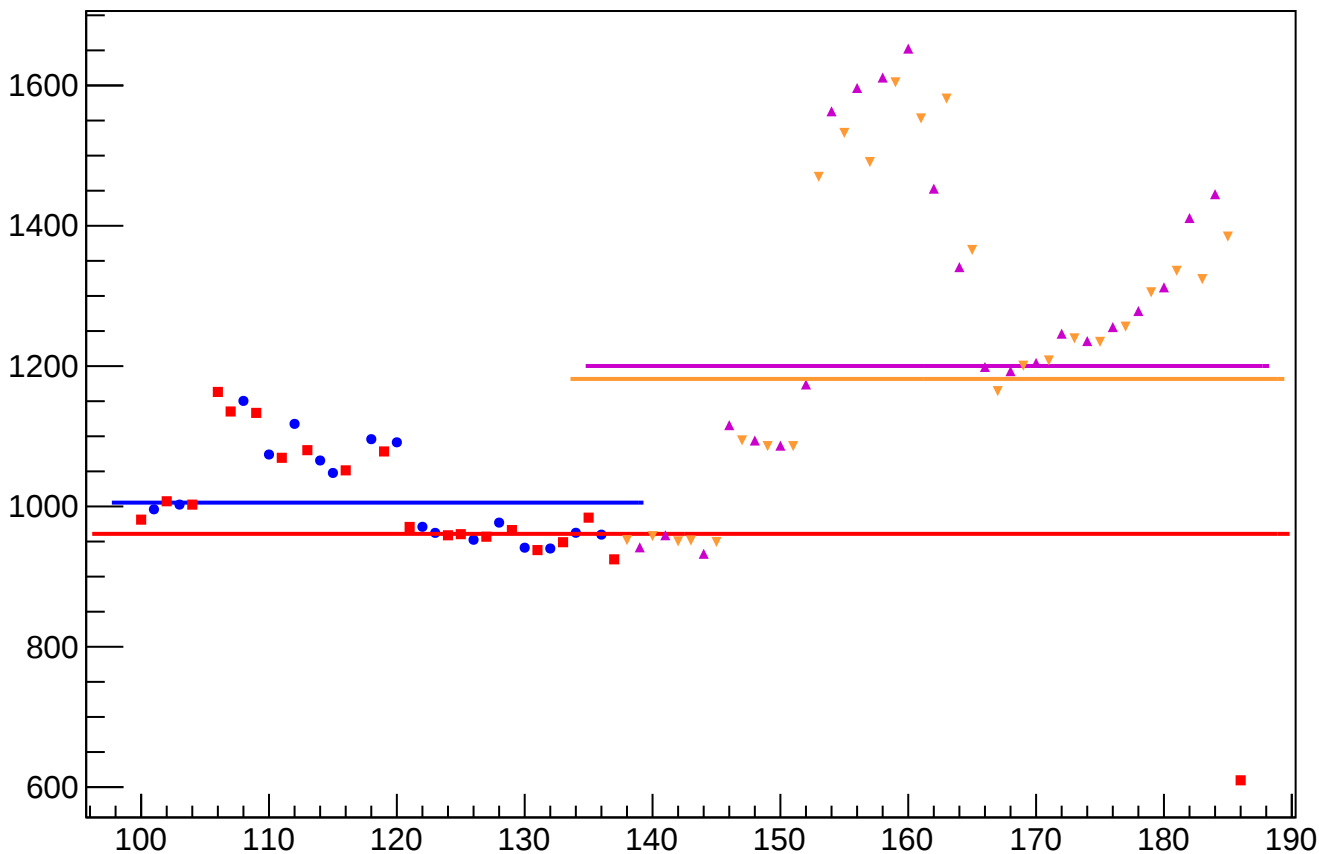
Right: -14.559 ± 0.262 χ^2/NDF : 10693.3/36

In: 6.163 ± 0.234 χ^2/NDF : 10613.6/39

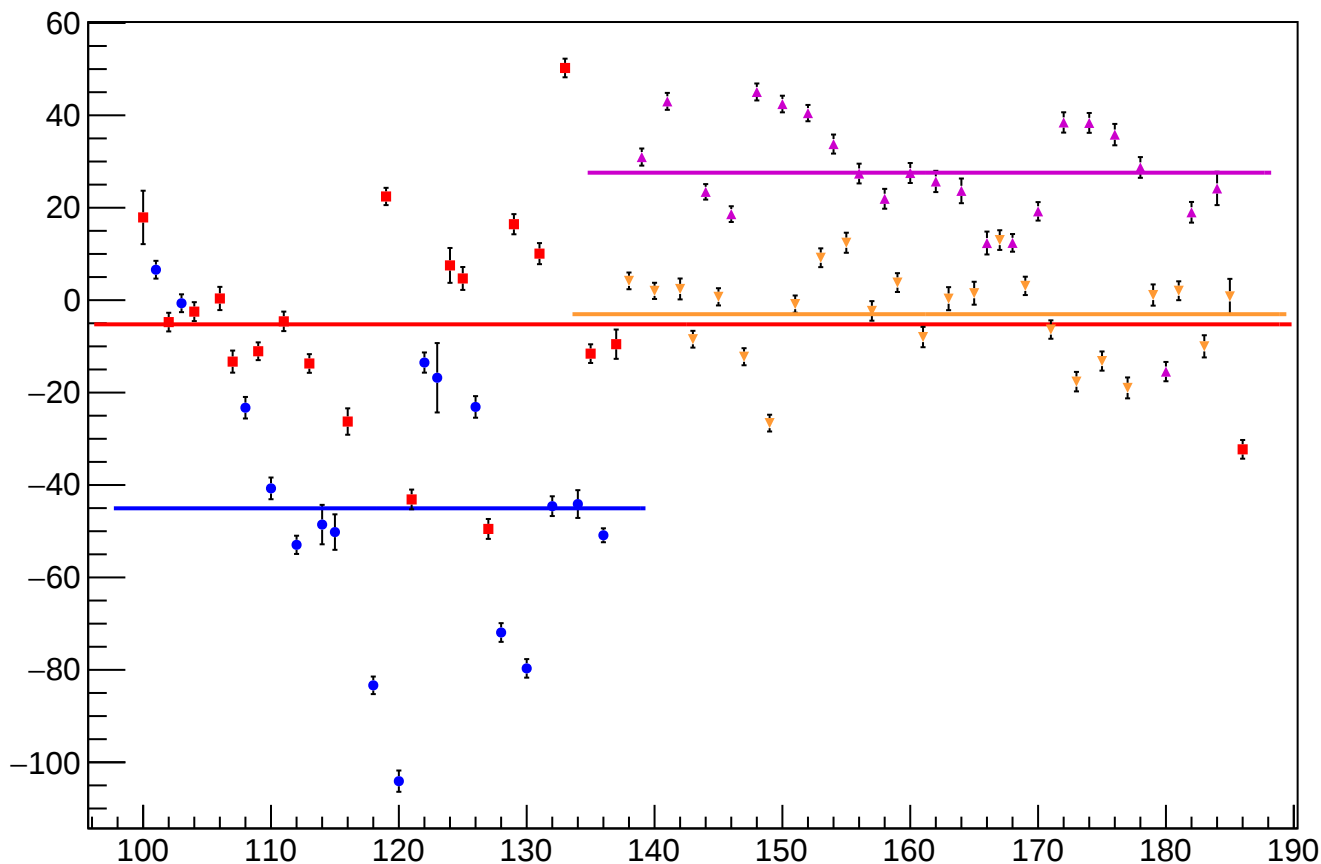
Out: 14.338 ± 0.220 χ^2/NDF : 28118.3/44

All: 10.505 ± 0.160 χ^2/NDF : 39381.0/84

diff_bpm2i02Y_rms vs Slug, Sign Corrected



diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.043 ± 0.541 χ^2/NDF : 3223.5/16

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -5.231 ± 0.506 χ^2/NDF : 2192.2/19

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

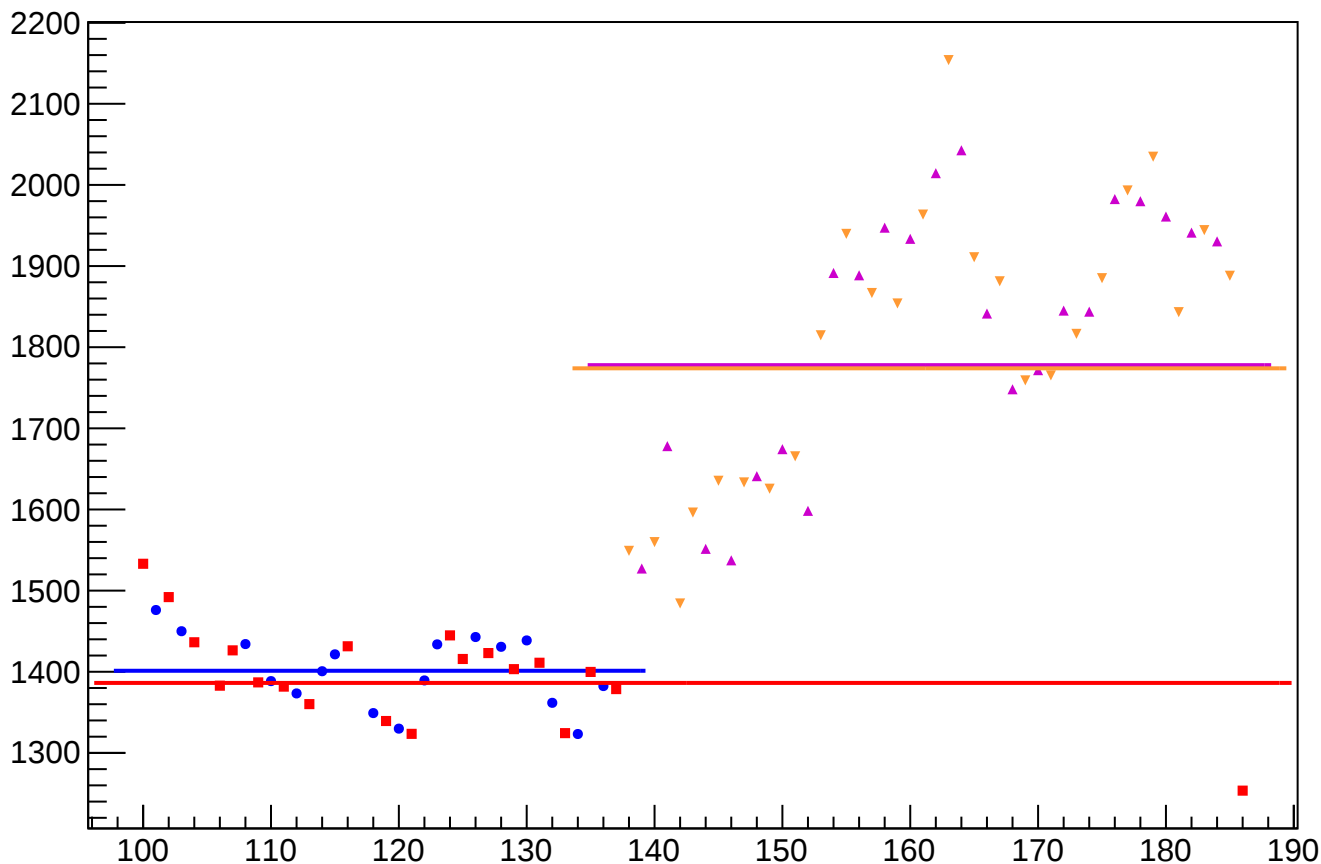
Right: -23.825 ± 0.369 χ^2/NDF : 8305.8/36

In: -0.481 ± 0.336 χ^2/NDF : 15256.8/39

Out: -3.919 ± 0.321 χ^2/NDF : 2759.1/44

All: -2.279 ± 0.232 χ^2/NDF : 18070.6/84

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.235 $\pm$ 0.382 χ^2 /NDF: 12839.4/16

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1386.256 $\pm$ 0.358 χ^2 /NDF: 24690.7/19

Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2 /NDF: 612631.3/47

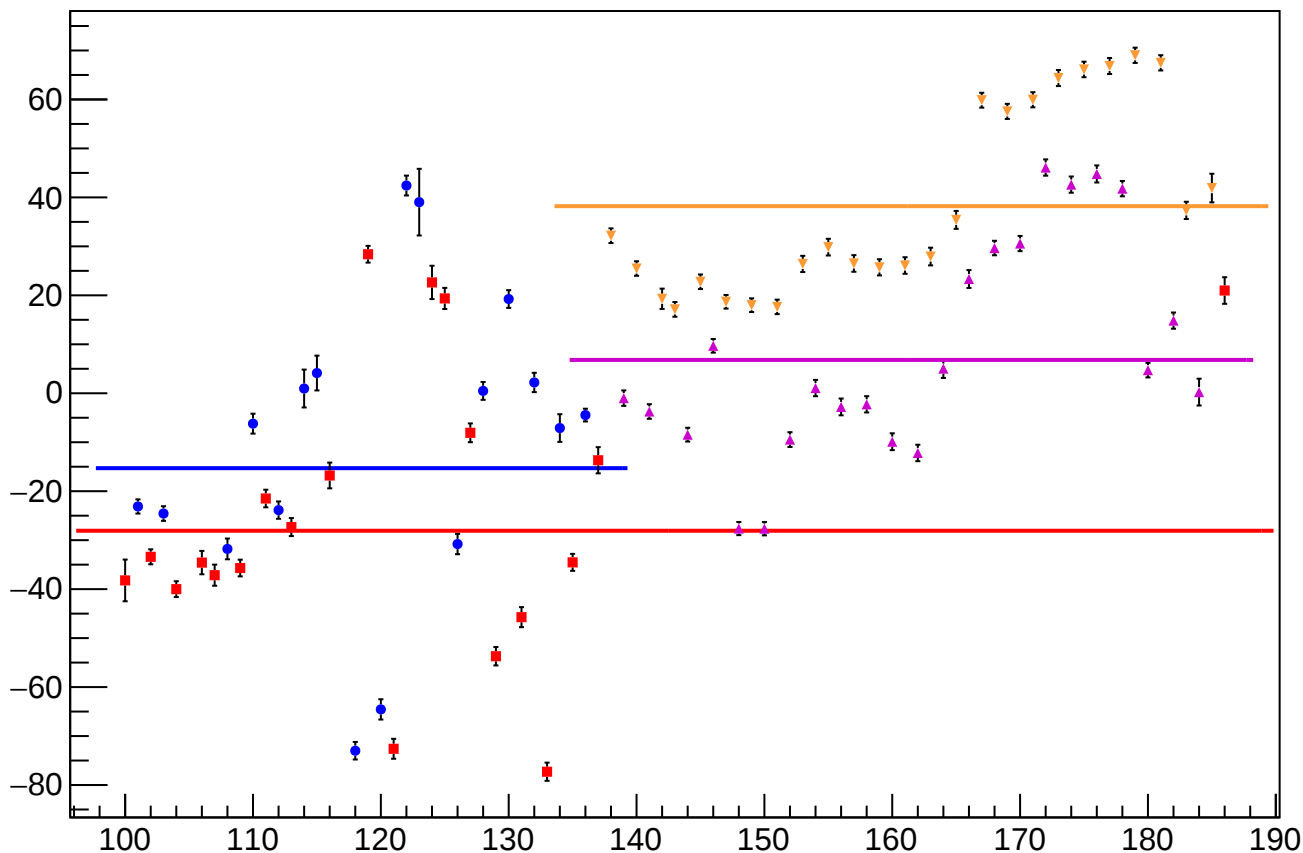
Right: 1393.252 $\pm$ 0.261 χ^2 /NDF: 38348.4/36

In: 1632.338 $\pm$ 0.238 χ^2 /NDF: 908016.3/39

Out: 1618.042 $\pm$ 0.227 χ^2 /NDF: 1039456.3/44

All: 1624.862 $\pm$ 0.164 χ^2 /NDF: 1949365.5/84

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.296 ± 0.473 χ^2/NDF : 3345.6/16

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -28.074 ± 0.451 χ^2/NDF : 3863.0/19

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

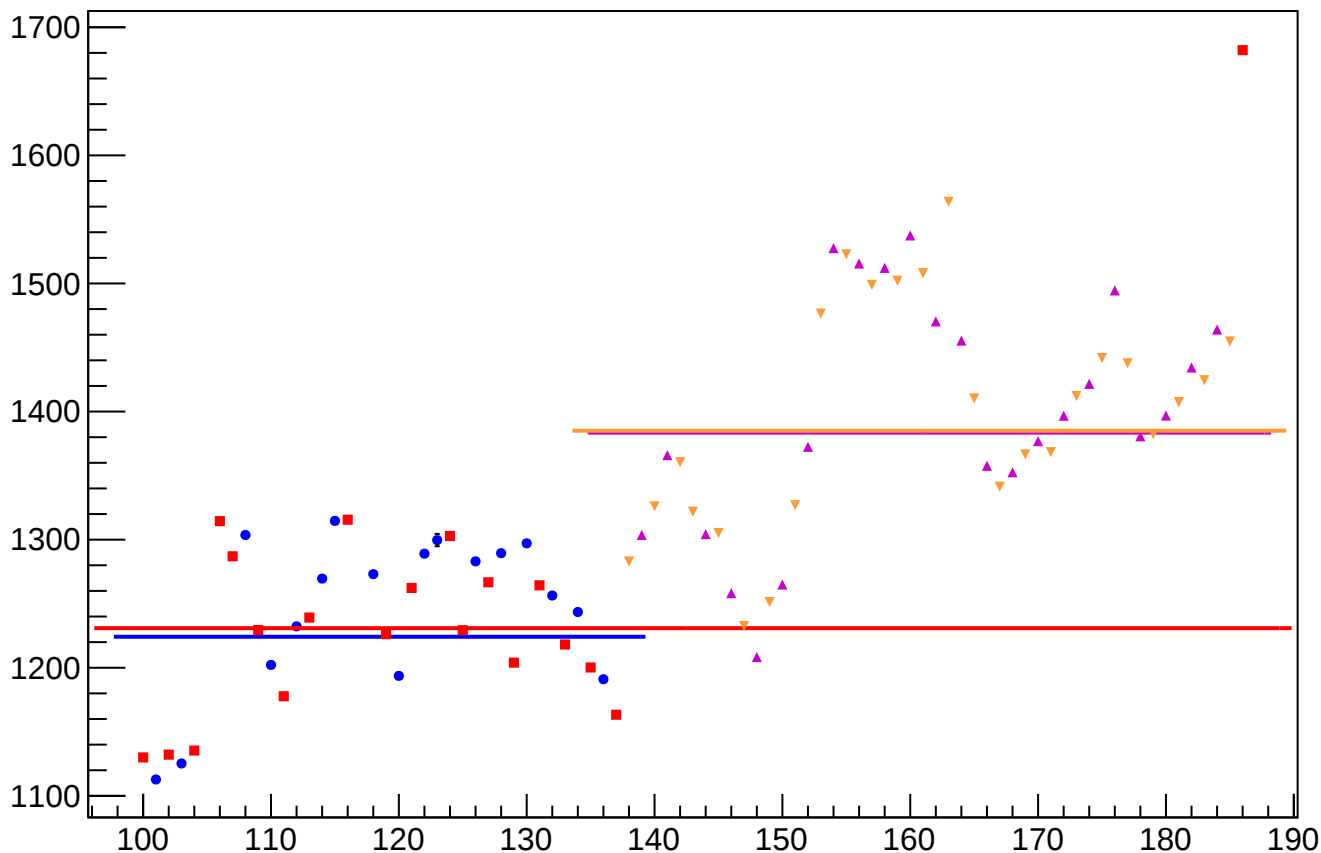
Right: -21.994 ± 0.326 χ^2/NDF : 7591.3/36

In: -0.518 ± 0.272 χ^2/NDF : 9300.7/39

Out: 15.673 ± 0.263 χ^2/NDF : 21659.7/44

All: 7.866 ± 0.189 χ^2/NDF : 32791.8/84

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.212 $\pm$ 0.334 χ^2/NDF : 38774.7/16

Left Out: 1385.063 $\pm$ 0.229 χ^2/NDF : 146001.5/24

Right Out: 1230.906 $\pm$ 0.319 χ^2/NDF : 84247.5/19

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

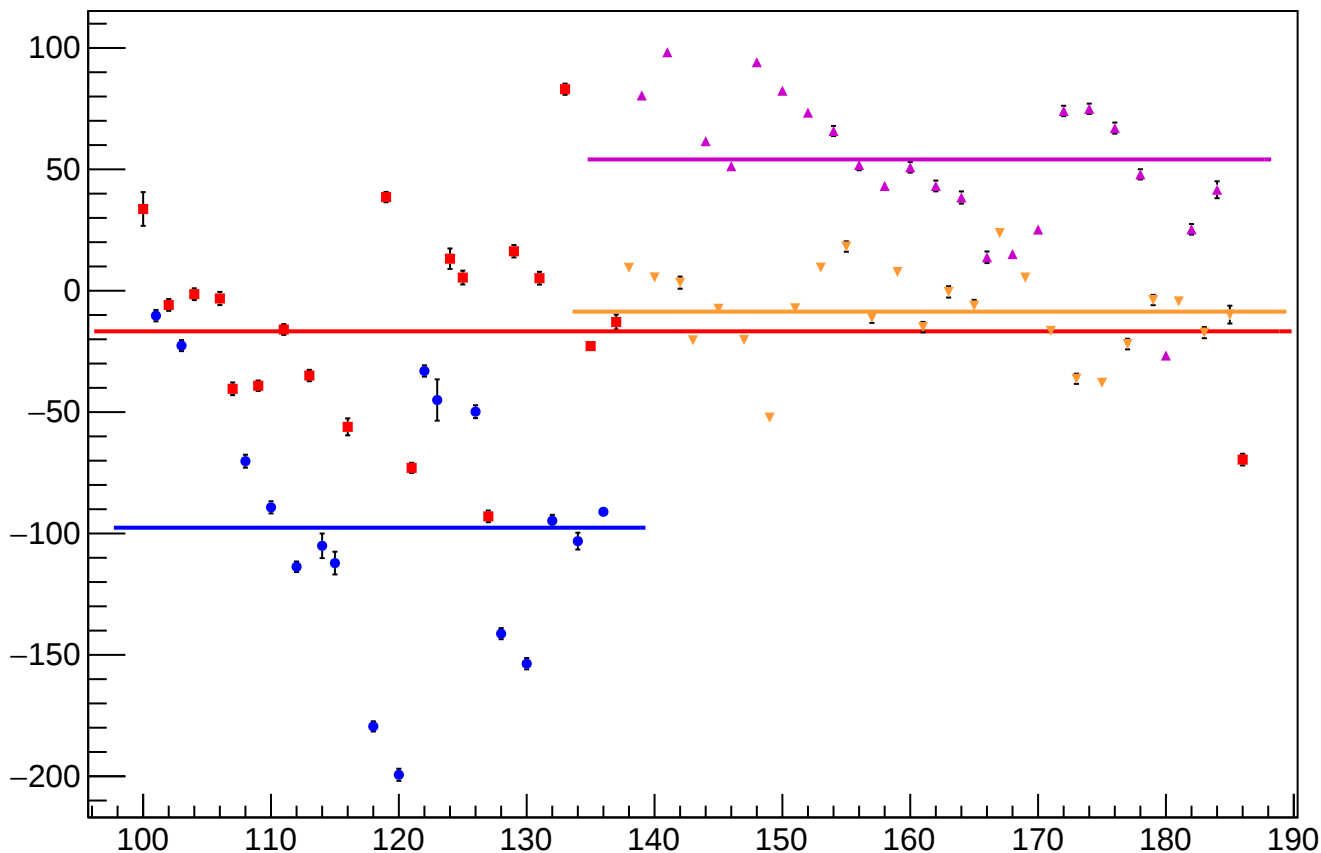
Right: 1227.721 $\pm$ 0.231 χ^2/NDF : 123232.3/36

In: 1330.741 $\pm$ 0.193 χ^2/NDF : 345279.9/39

Out: 1332.654 $\pm$ 0.186 χ^2/NDF : 384769.5/44

All: 1331.732 $\pm$ 0.134 χ^2/NDF : 730100.6/84

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.610+/-0.602 χ^2/NDF : 7919.3/16

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

Right Out: -16.718+/-0.564 χ^2/NDF : 5622.7/19

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

Left: 21.586+/-0.295 χ^2/NDF : 17900.0/47

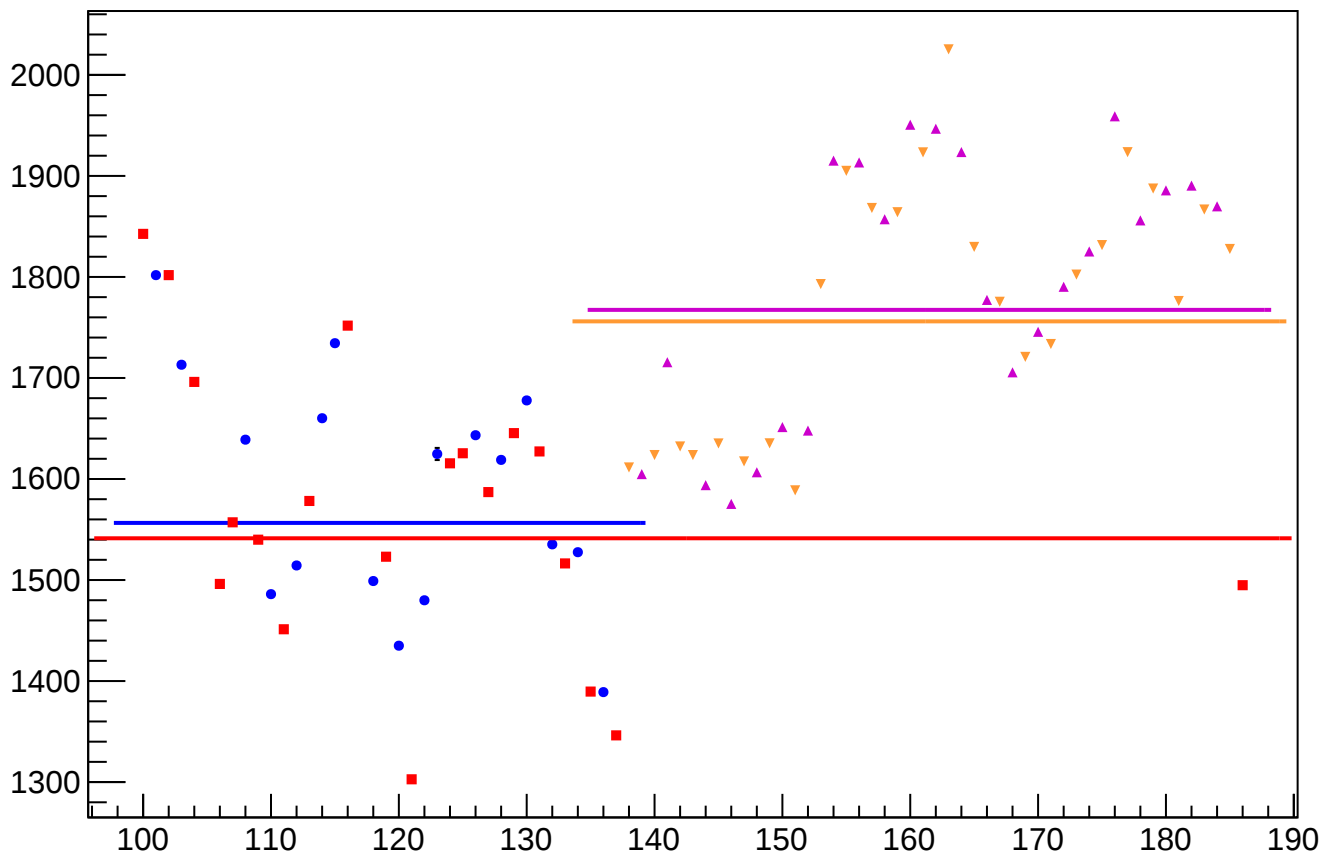
Right: -54.531+/-0.412 χ^2/NDF : 23149.1/36

In: 3.560+/-0.348 χ^2/NDF :54950.9/39

Out: -11.411+/-0.332 χ^2/NDF :7688.5/44

All: -4.273+/-0.240 χ^2/NDF : 63609.9/84

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.539 $\pm$ 0.426 χ^2 /NDF: 81438.3/16

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF:175762.3/24

Right Out: 1541.312 $\pm$ 0.399 χ^2 /NDF: 101382.0/19

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

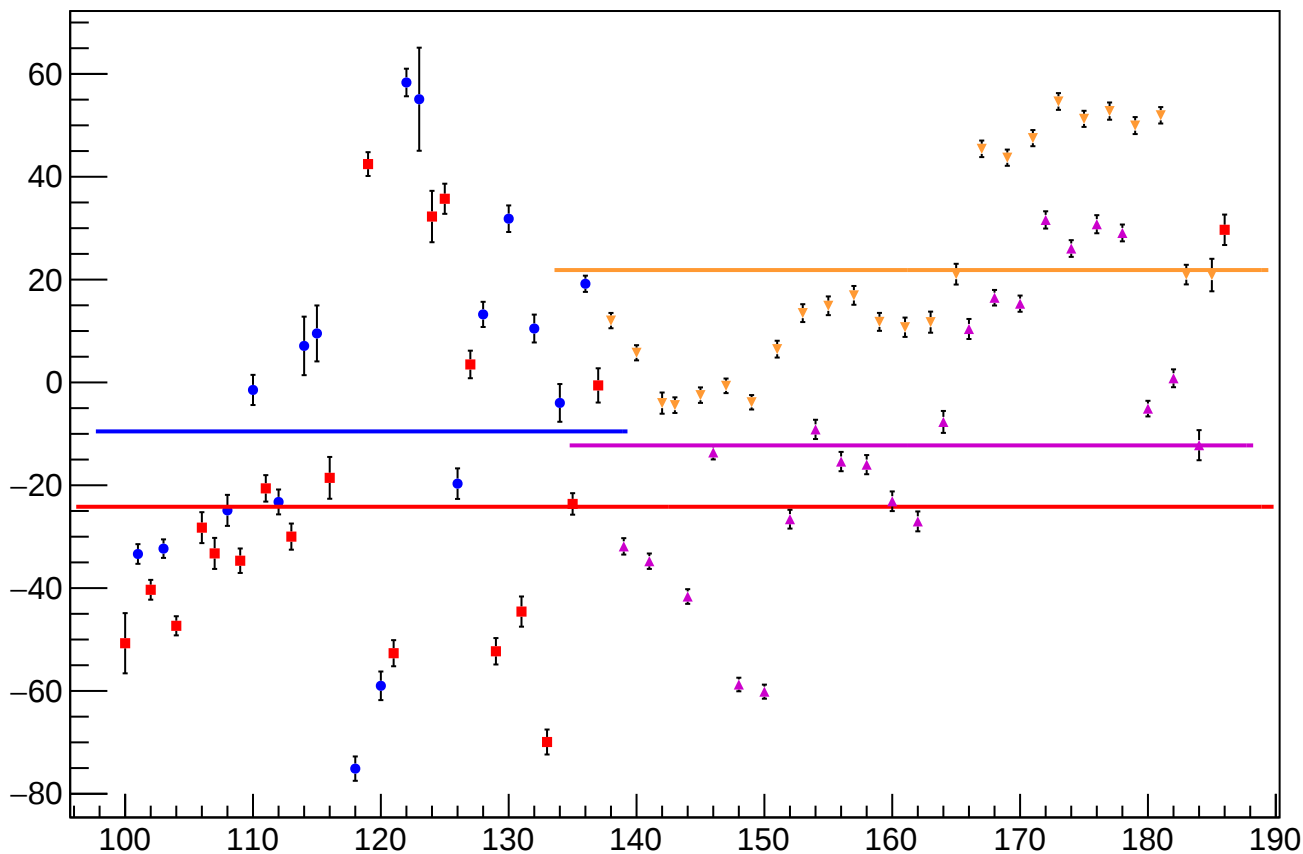
Right: 1548.430 $\pm$ 0.291 χ^2 /NDF: 183501.1/36

In: 1697.171 $\pm$ 0.246 χ^2 /NDF:432906.1/39

Out: 1681.787 $\pm$ 0.235 χ^2 /NDF:466619.4/44

All: 1689.122 $\pm$ 0.170 χ^2 /NDF: 901575.4/84

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.523 ± 0.627 χ^2/NDF : 2908.8/16

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

Right Out: -24.179 ± 0.592 χ^2/NDF : 2795.9/19

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

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

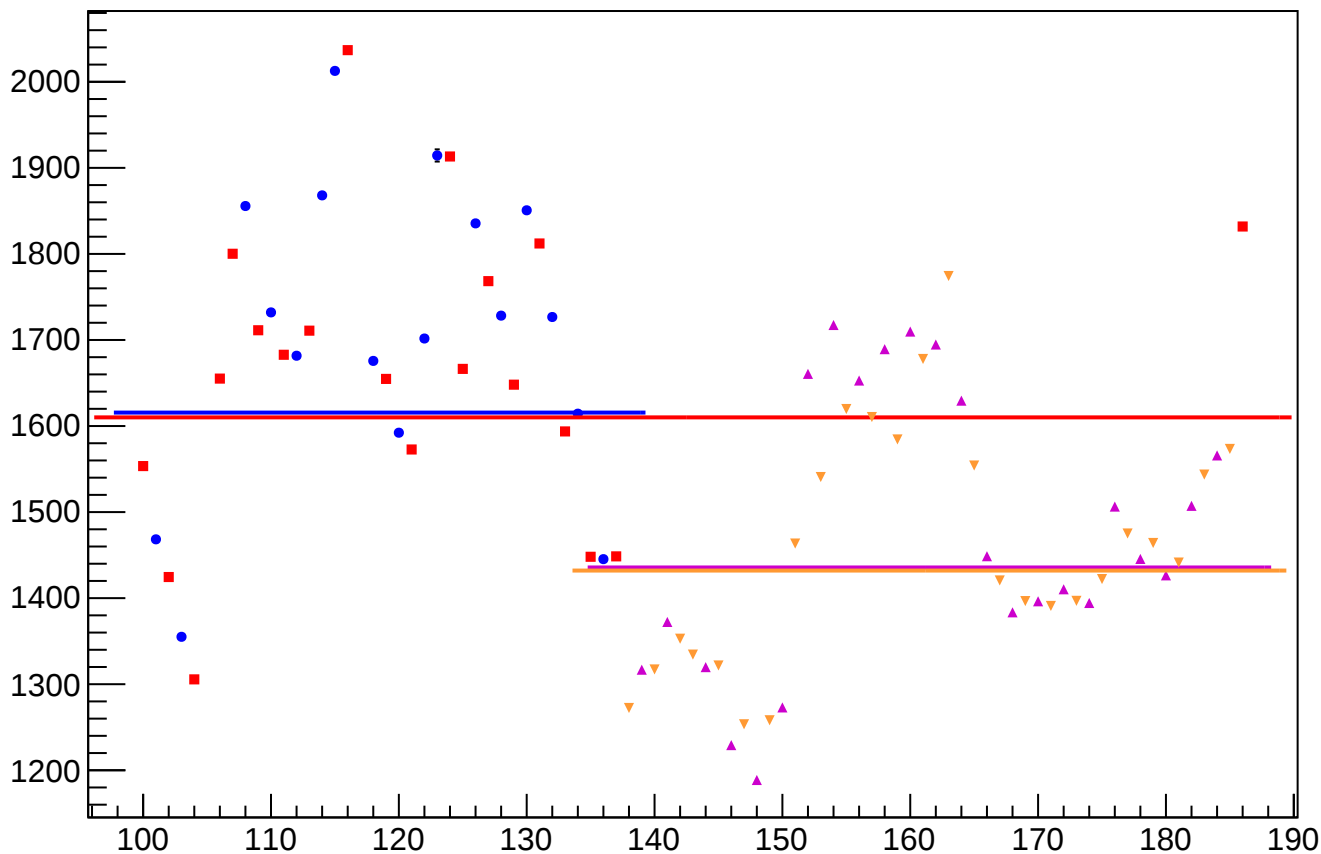
Right: -17.282 ± 0.430 χ^2/NDF : 5993.6/36

In: -11.608 ± 0.304 χ^2/NDF : 9704.8/39

Out: 10.660 ± 0.292 χ^2/NDF : 11490.1/44

All: -0.026 ± 0.210 χ^2/NDF : 23991.4/84

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1615.627 $\pm$ 0.444 χ^2/NDF : 149190.0/16

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

Right Out: 1610.055 $\pm$ 0.418 χ^2/NDF : 165216.8/19

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

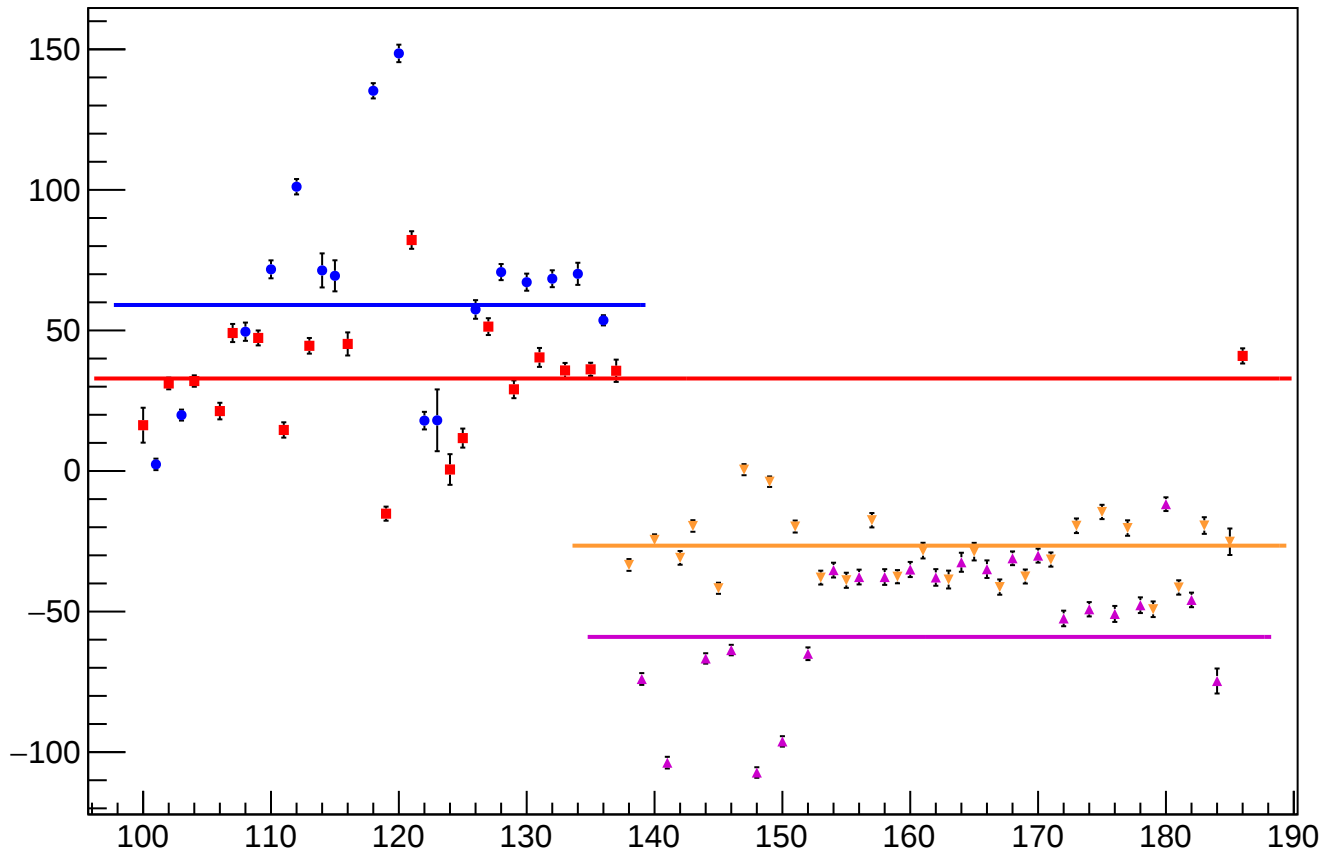
Right: 1612.677 $\pm$ 0.304 χ^2/NDF : 314490.3/36

In: 1477.817 $\pm$ 0.215 χ^2/NDF : 696059.3/39

Out: 1475.348 $\pm$ 0.206 χ^2/NDF : 599630.2/44

All: 1476.533 $\pm$ 0.149 χ^2/NDF : 1295758.2/84

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.057 ± 0.700 χ^2/NDF : 3293.2/16

Left Out: -26.554 ± 0.488 χ^2/NDF : 717.5/24

Right Out: 32.909 ± 0.648 χ^2/NDF : 897.5/19

Left In: -59.014 ± 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 ± 0.351 χ^2/NDF : 5632.2/47

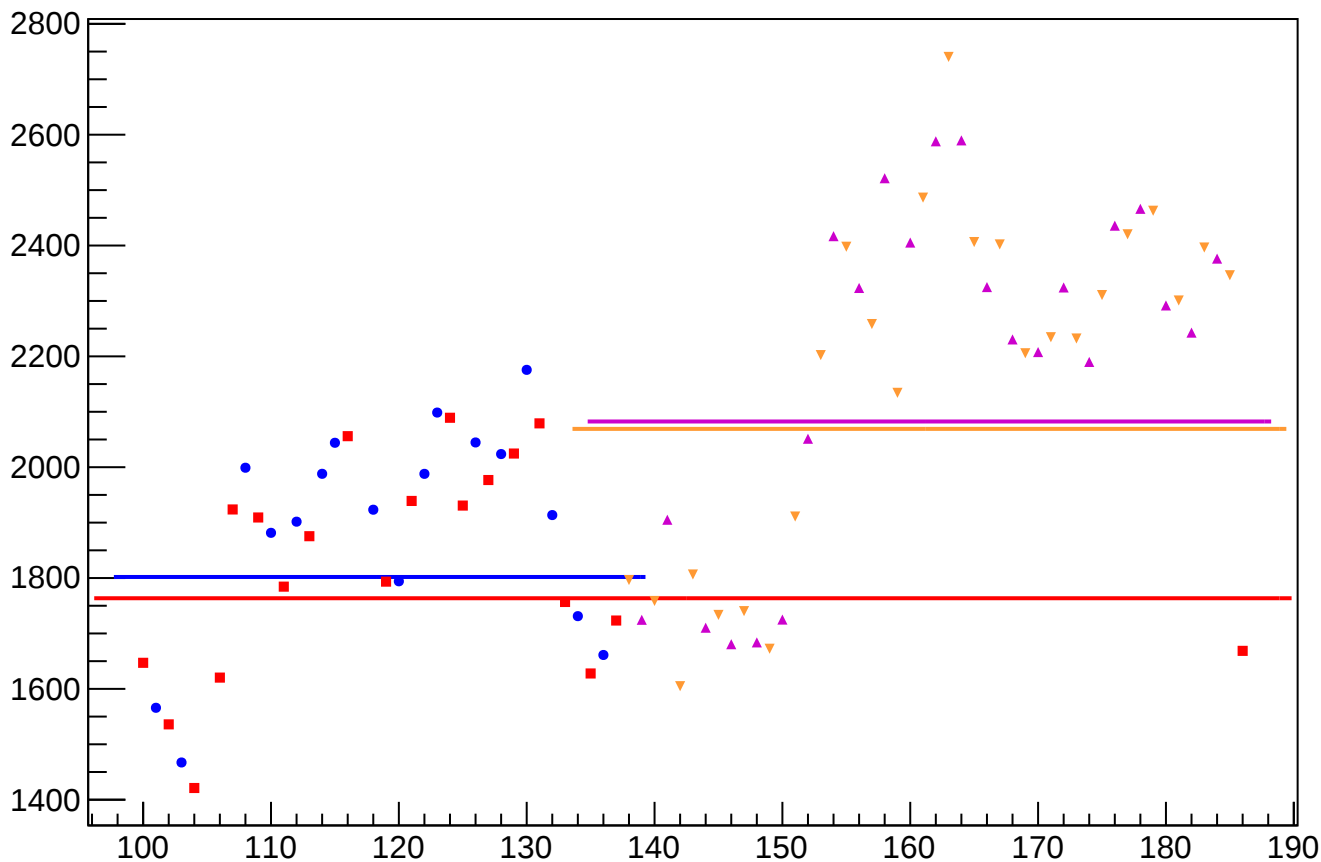
Right: 44.965 ± 0.476 χ^2/NDF : 4941.7/36

In: -18.483 ± 0.410 χ^2/NDF : 24736.7/39

Out: -5.039 ± 0.390 χ^2/NDF : 6990.3/44

All: -11.414 ± 0.283 χ^2/NDF : 32291.2/84

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1801.920 $\pm$ 0.495 χ^2/NDF : 183555.8/16

Left Out: 2069.146 $\pm$ 0.345 χ^2/NDF : 799037.9/24

Right Out: 1763.544 $\pm$ 0.458 χ^2/NDF : 180440.8/19

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

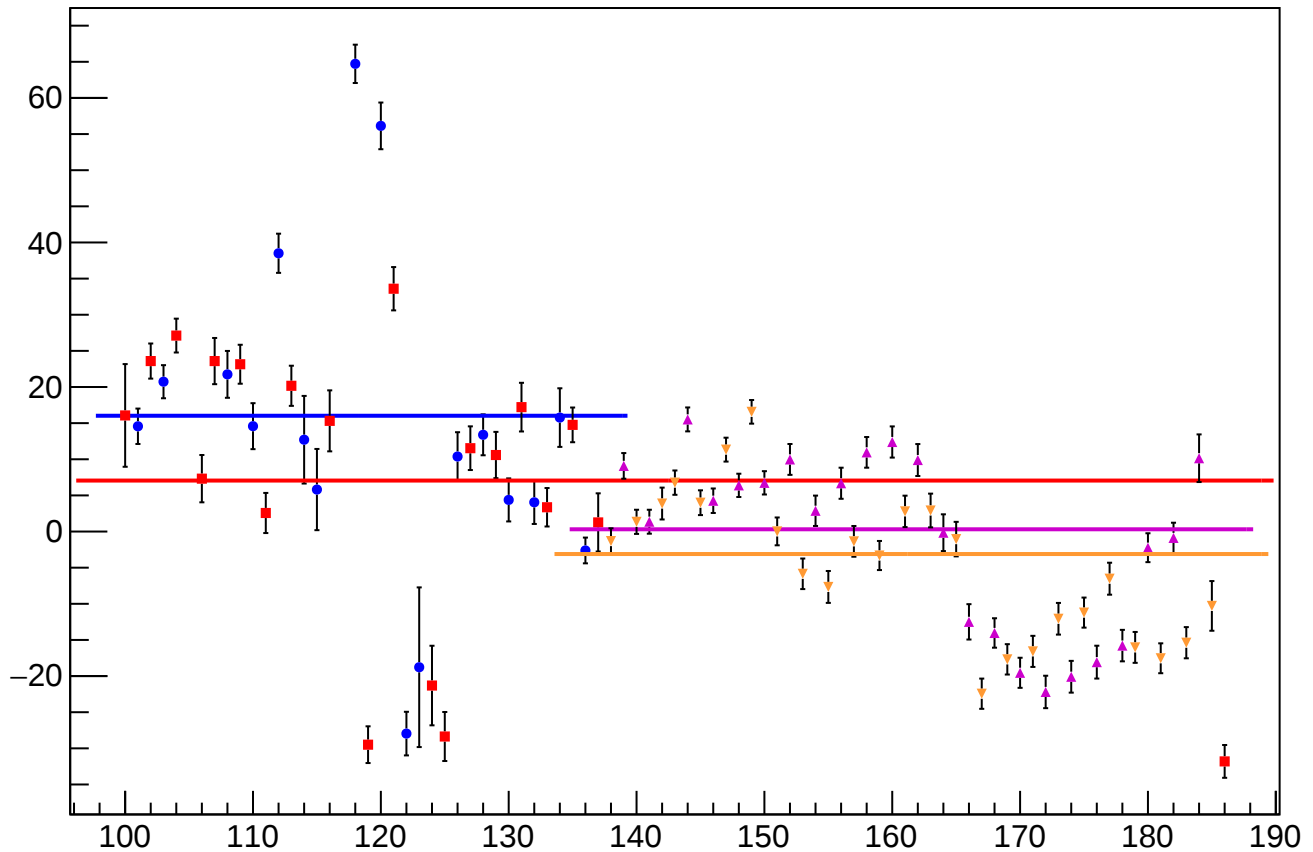
Right: 1781.239 $\pm$ 0.336 χ^2/NDF : 367231.8/36

In: 1986.181 $\pm$ 0.290 χ^2/NDF : 1179603.3/39

Out: 1958.571 $\pm$ 0.276 χ^2/NDF : 1263434.1/44

All: 1971.663 $\pm$ 0.200 χ^2/NDF : 2447797.5/84

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Left: -1.470 +/- 0.292 χ^2/NDF : 1414.7/47

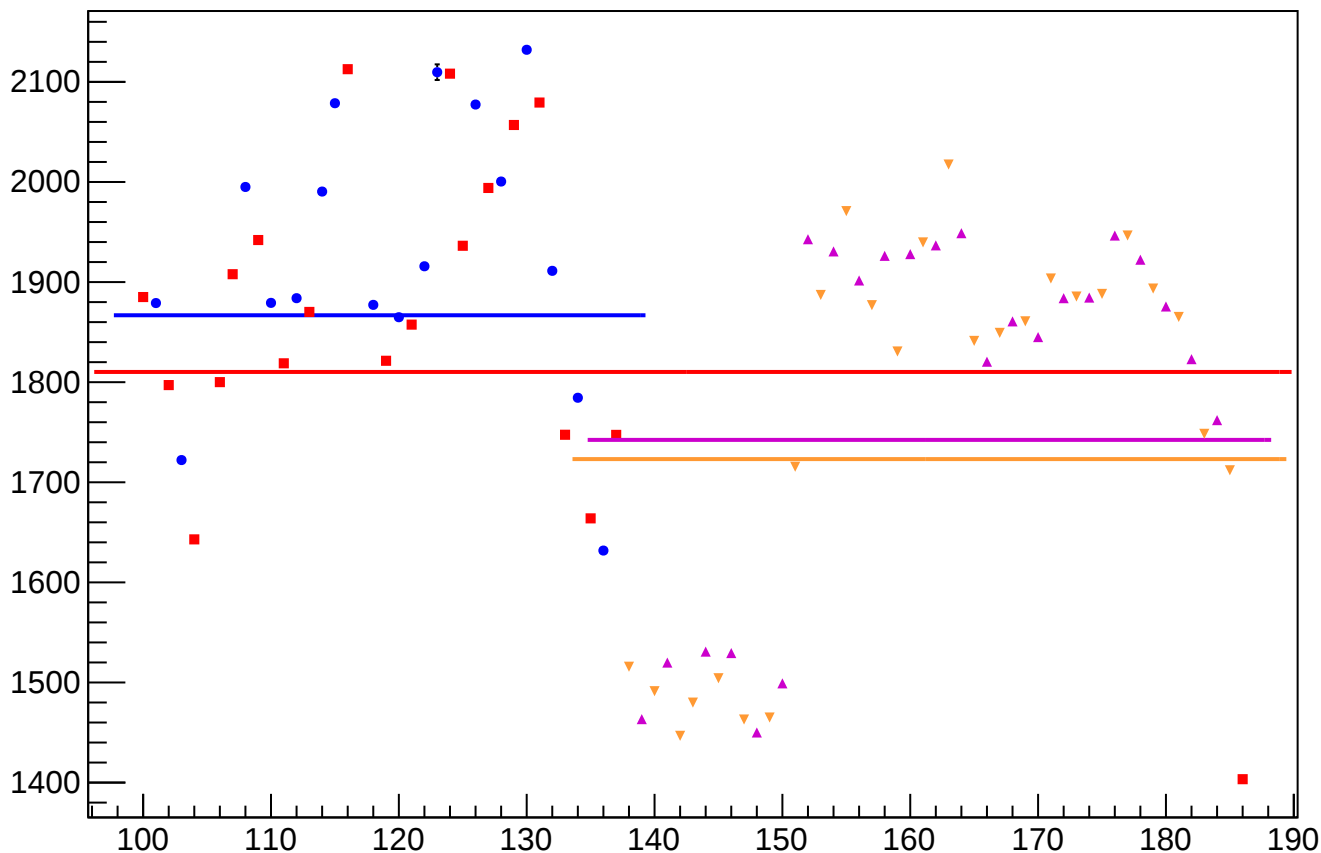
Right: 11.160 +/- 0.489 χ^2/NDF : 1975.1/36

In: 4.294 +/- 0.364 χ^2/NDF : 2027.4/39

Out: -0.363 +/- 0.345 χ^2/NDF : 1768.3/44

All: 1.844 +/- 0.250 χ^2/NDF : 3881.9/84

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1866.855 ± 0.511 $\chi^2/\text{NDF}: 80657.5/16$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1810.228 ± 0.470 $\chi^2/\text{NDF}: 142906.1/19$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

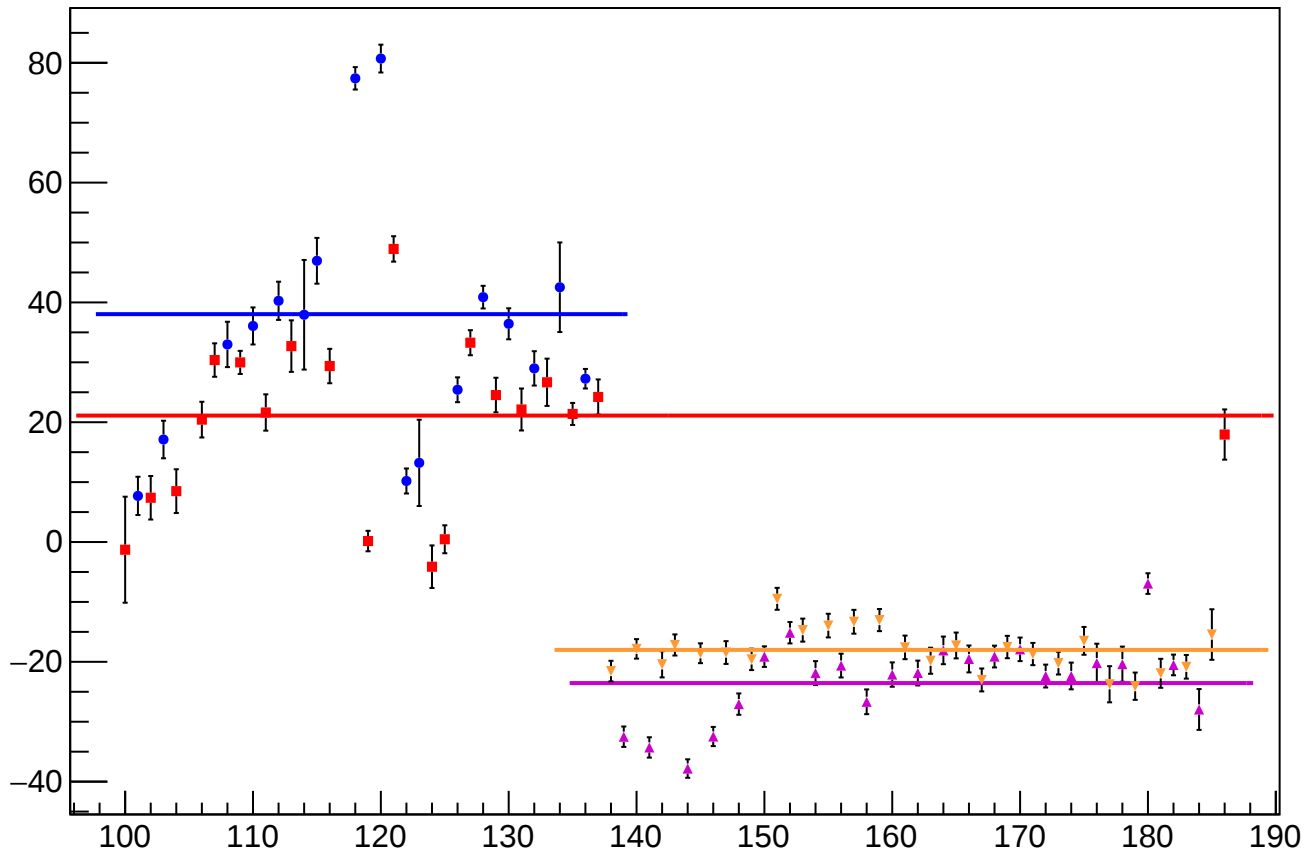
Right: 1836.150 ± 0.346 $\chi^2/\text{NDF}: 230221.9/36$

In: 1773.908 ± 0.257 $\chi^2/\text{NDF}: 560812.2/39$

Out: 1746.709 ± 0.244 $\chi^2/\text{NDF}: 645430.9/44$

All: 1759.598 ± 0.177 $\chi^2/\text{NDF}: 1212123.8/84$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 38.041 ± 0.639 $\chi^2/\text{NDF}: 1207.6/16$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 21.111 ± 0.603 $\chi^2/\text{NDF}: 570.6/19$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

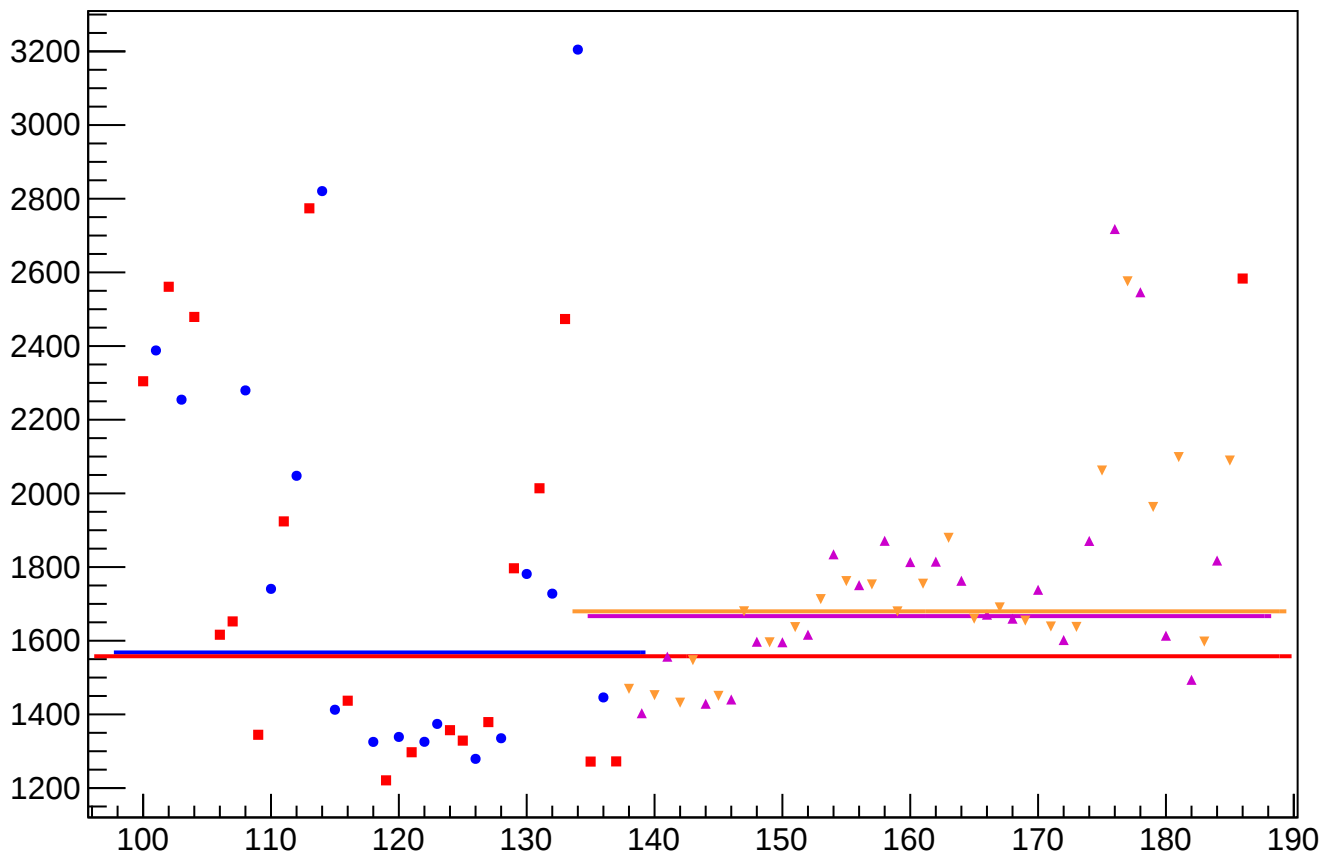
Right: 29.092 ± 0.439 $\chi^2/\text{NDF}: 2149.6/36$

In: -5.845 ± 0.342 $\chi^2/\text{NDF}: 8178.5/39$

Out: -6.197 ± 0.331 $\chi^2/\text{NDF}: 3580.2/44$

All: -6.027 ± 0.238 $\chi^2/\text{NDF}: 11759.2/84$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1568.172 $\pm$ 0.452 χ^2/NDF : 668072.7/16

Left Out: 1679.814 $\pm$ 0.281 χ^2/NDF : 522795.6/24

Right Out: 1557.869 $\pm$ 0.427 χ^2/NDF : 1004398.4/19

Left In: 1666.819 $\pm$ 0.287 χ^2/NDF : 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2/NDF : 1174835.7/47

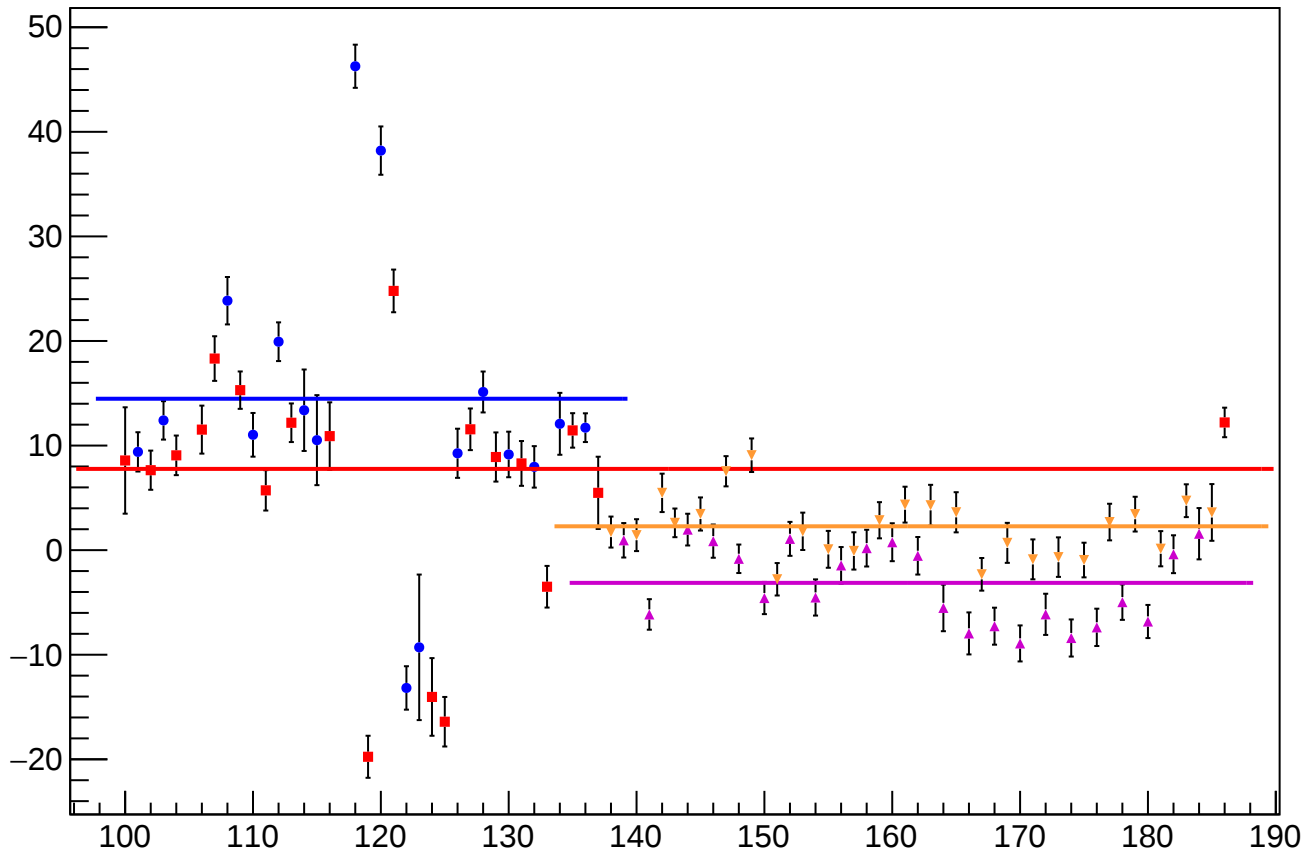
Right: 1562.726 $\pm$ 0.310 χ^2/NDF : 1672746.2/36

In: 1638.468 $\pm$ 0.242 χ^2/NDF : 1353054.2/39

Out: 1642.999 $\pm$ 0.234 χ^2/NDF : 1584252.6/44

All: 1640.807 $\pm$ 0.168 χ^2/NDF : 2937487.6/84

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.477 $\pm$ 0.524 χ^2 /NDF: 596.5/16

Left Out: 2.280 $\pm$ 0.338 χ^2 /NDF: 75.6/24

Right Out: 7.769 $\pm$ 0.467 χ^2 /NDF: 500.1/19

Left In: -3.129 $\pm$ 0.358 χ^2 /NDF: 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2 /NDF: 299.7/47

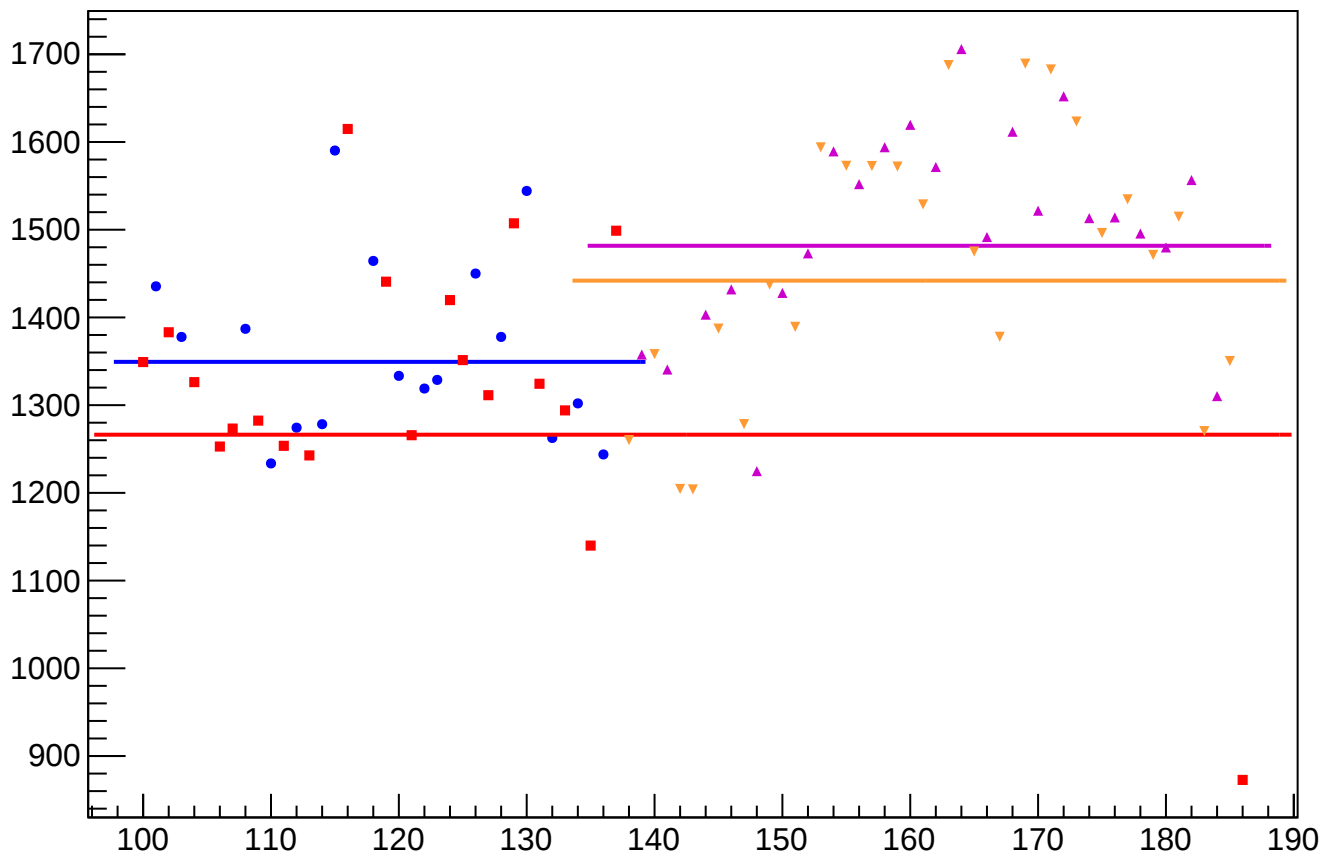
Right: 10.741 $\pm$ 0.349 χ^2 /NDF: 1187.9/36

In: 2.465 $\pm$ 0.295 χ^2 /NDF: 1469.9/39

Out: 4.167 $\pm$ 0.274 χ^2 /NDF: 666.2/44

All: 3.380 $\pm$ 0.201 χ^2 /NDF: 2153.9/84

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.357 ± 0.371 $\chi^2/\text{NDF}: 64580.7/16$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1266.316 ± 0.330 $\chi^2/\text{NDF}: 255260.9/19$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

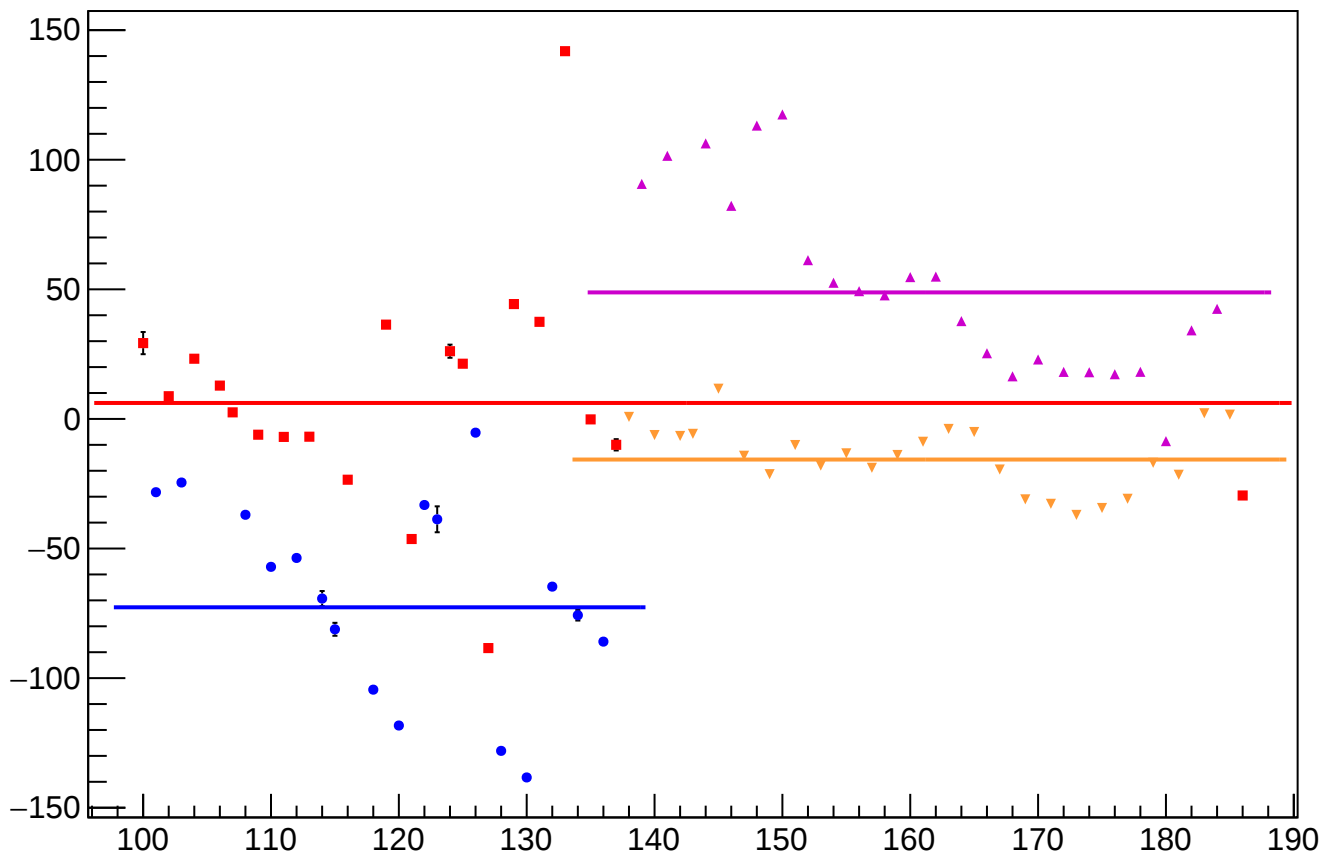
Right: 1303.104 ± 0.247 $\chi^2/\text{NDF}: 347811.6/36$

In: 1439.647 ± 0.209 $\chi^2/\text{NDF}: 360062.3/39$

Out: 1381.581 ± 0.194 $\chi^2/\text{NDF}: 811231.7/44$

All: 1408.436 ± 0.142 $\chi^2/\text{NDF}: 1212830.3/84$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.674 ± 0.363 χ^2/NDF : 11603.9/16

Left Out: -15.666 ± 0.212 χ^2/NDF : 3518.1/24

Right Out: 6.159 ± 0.333 χ^2/NDF : 19558.8/19

Left In: 48.812 ± 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 ± 0.152 χ^2/NDF : 73443.2/47

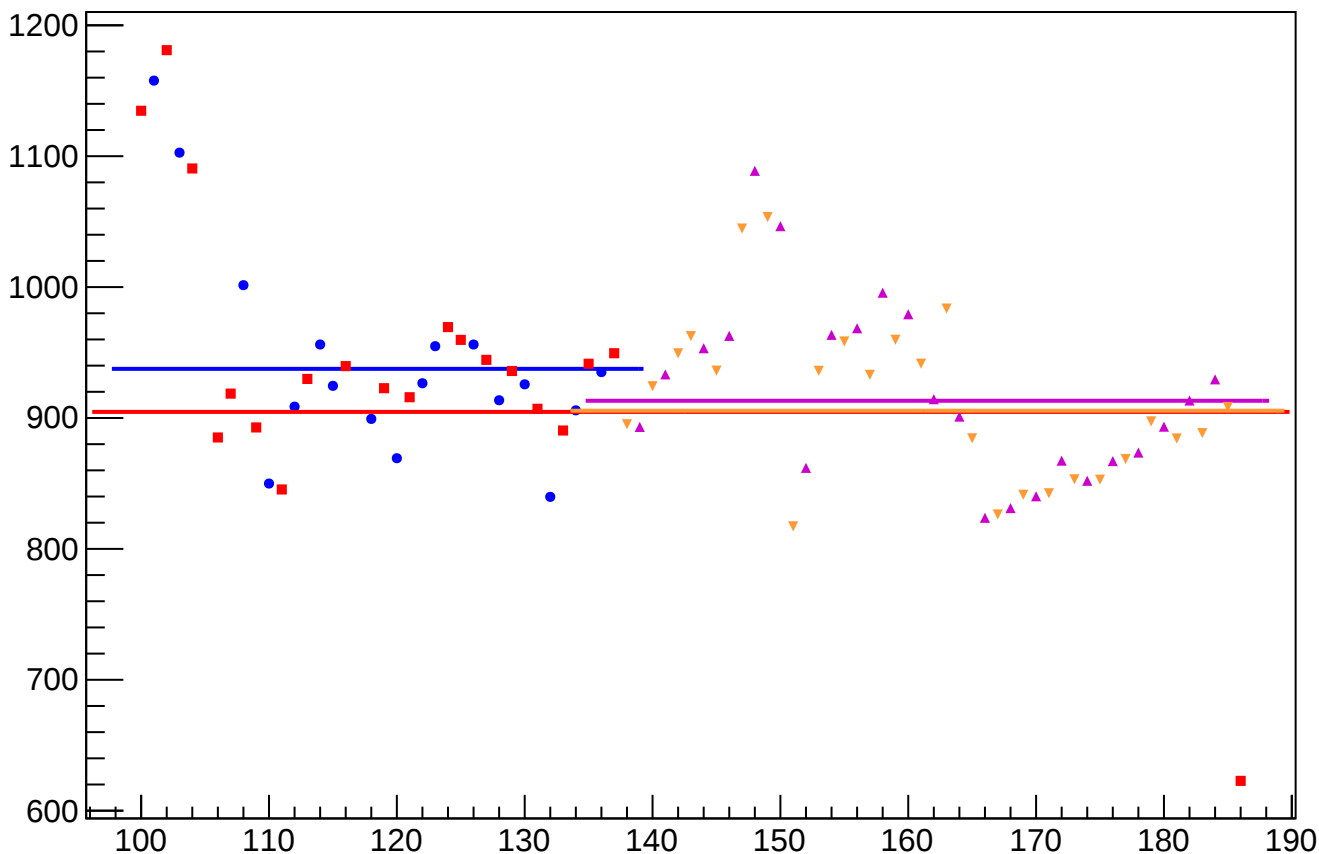
Right: -29.872 ± 0.245 χ^2/NDF : 56765.4/36

In: 16.208 ± 0.188 χ^2/NDF : 118797.1/39

Out: -9.394 ± 0.179 χ^2/NDF : 26136.6/44

All: 2.743 ± 0.129 χ^2/NDF : 154680.2/84

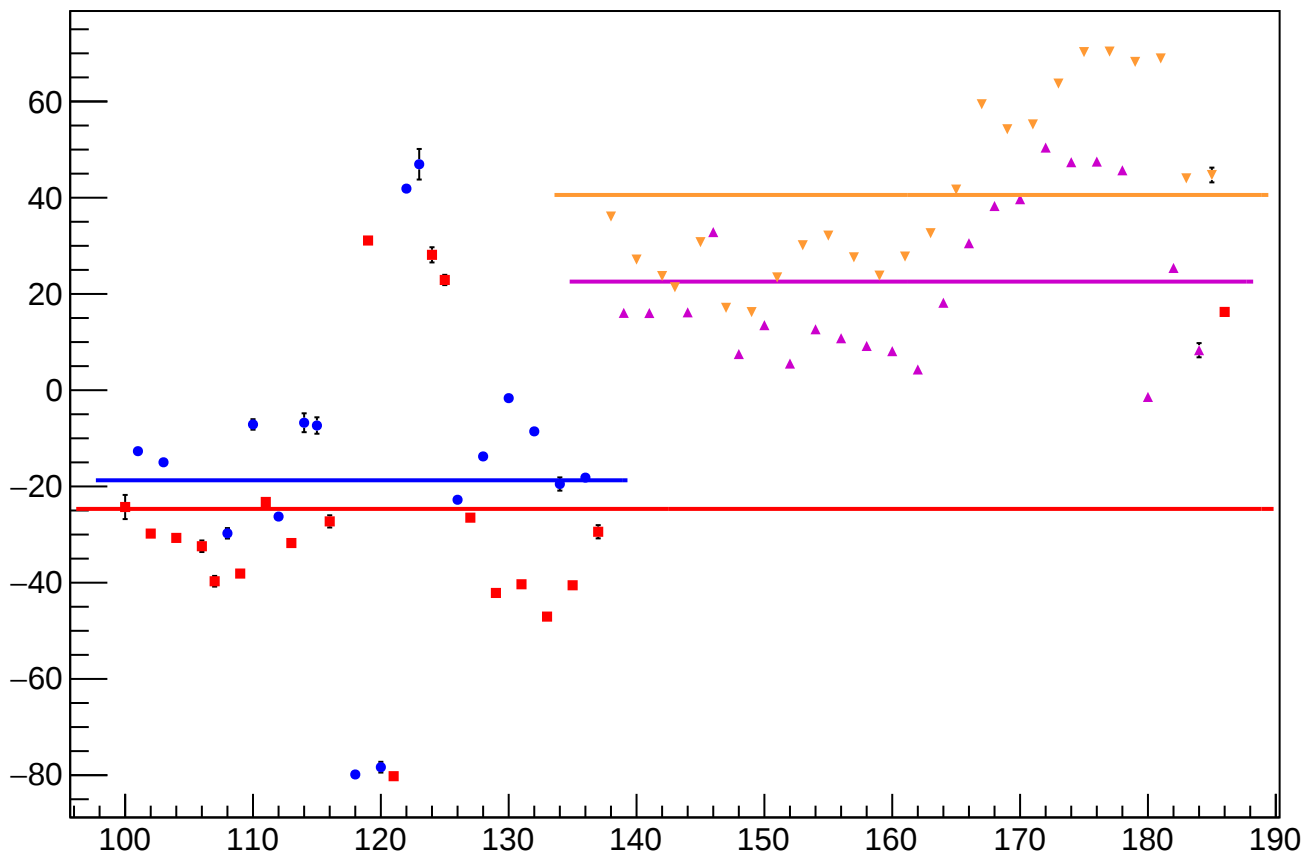
diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.550 $\pm$ 0.257 χ^2 /NDF: 98231.3/16
 Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF:162073.5/24
 Right Out: 904.655 $\pm$ 0.236 χ^2 /NDF: 266339.6/19
 Left In: 913.165 $\pm$ 0.155 χ^2 /NDF:174438.8/22

Left: 909.225 $\pm$ 0.108 χ^2 /NDF: 337749.0/47
 Right: 919.690 $\pm$ 0.174 χ^2 /NDF: 373486.7/36
 In: 919.709 $\pm$ 0.133 χ^2 /NDF:279272.0/39
 Out: 905.313 $\pm$ 0.126 χ^2 /NDF:428424.1/44
 All: 912.138 $\pm$ 0.092 χ^2 /NDF: 713859.8/84

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.723 ± 0.243 $\chi^2/\text{NDF}: 12999.6/16$

Left Out: 40.573 ± 0.168 $\chi^2/\text{NDF}: 12079.0/24$

Right Out: -24.668 ± 0.226 $\chi^2/\text{NDF}: 15416.2/19$

Left In: 22.565 ± 0.175 $\chi^2/\text{NDF}: 8167.7/22$

Left: 31.959 ± 0.121 $\chi^2/\text{NDF}: 25752.7/47$

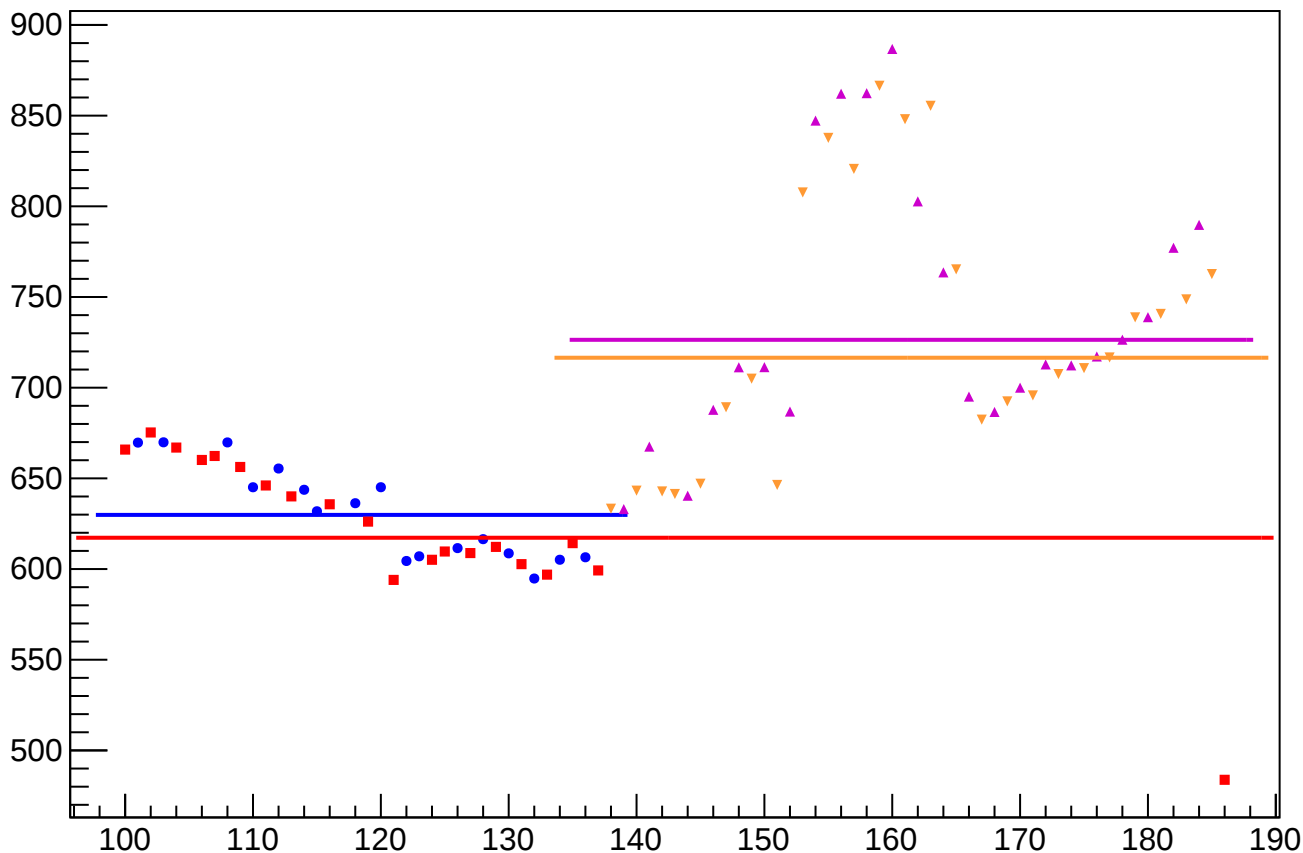
Right: -21.914 ± 0.165 $\chi^2/\text{NDF}: 28736.8/36$

In: 8.443 ± 0.142 $\chi^2/\text{NDF}: 40145.7/39$

Out: 17.357 ± 0.135 $\chi^2/\text{NDF}: 81261.7/44$

All: 13.140 ± 0.098 $\chi^2/\text{NDF}: 123479.0/84$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.857 ± 0.172 $\chi^2/\text{NDF}: 23252.7/16$

Left Out: 716.515 ± 0.119 $\chi^2/\text{NDF}: 342740.2/24$

Right Out: 617.260 ± 0.160 $\chi^2/\text{NDF}: 89098.3/19$

Left In: 726.390 ± 0.124 $\chi^2/\text{NDF}: 289788.8/22$

Left: 721.238 ± 0.086 $\chi^2/\text{NDF}: 635840.6/47$

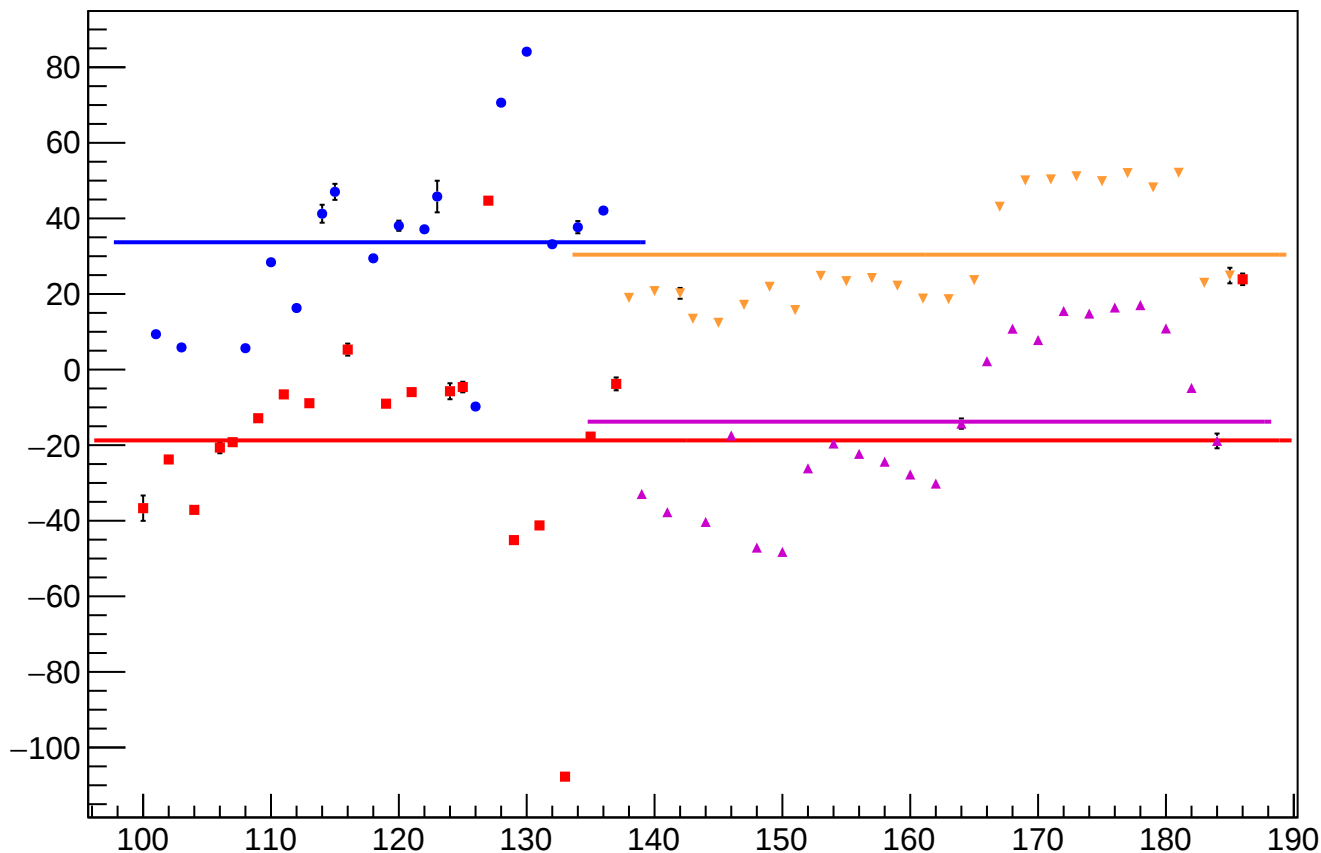
Right: 623.095 ± 0.117 $\chi^2/\text{NDF}: 115234.0/36$

In: 693.371 ± 0.101 $\chi^2/\text{NDF}: 520528.4/39$

Out: 681.195 ± 0.095 $\chi^2/\text{NDF}: 680731.0/44$

All: 686.955 ± 0.069 $\chi^2/\text{NDF}: 1208988.6/84$

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.692 ± 0.300 χ^2/NDF : 6428.2/16

Left Out: 30.408 ± 0.237 χ^2/NDF : 3808.0/24

Right Out: -18.743 ± 0.288 χ^2/NDF : 12086.4/19

Left In: -13.787 ± 0.246 χ^2/NDF : 7979.7/22

Left: 9.082 ± 0.171 χ^2/NDF : 28511.9/47

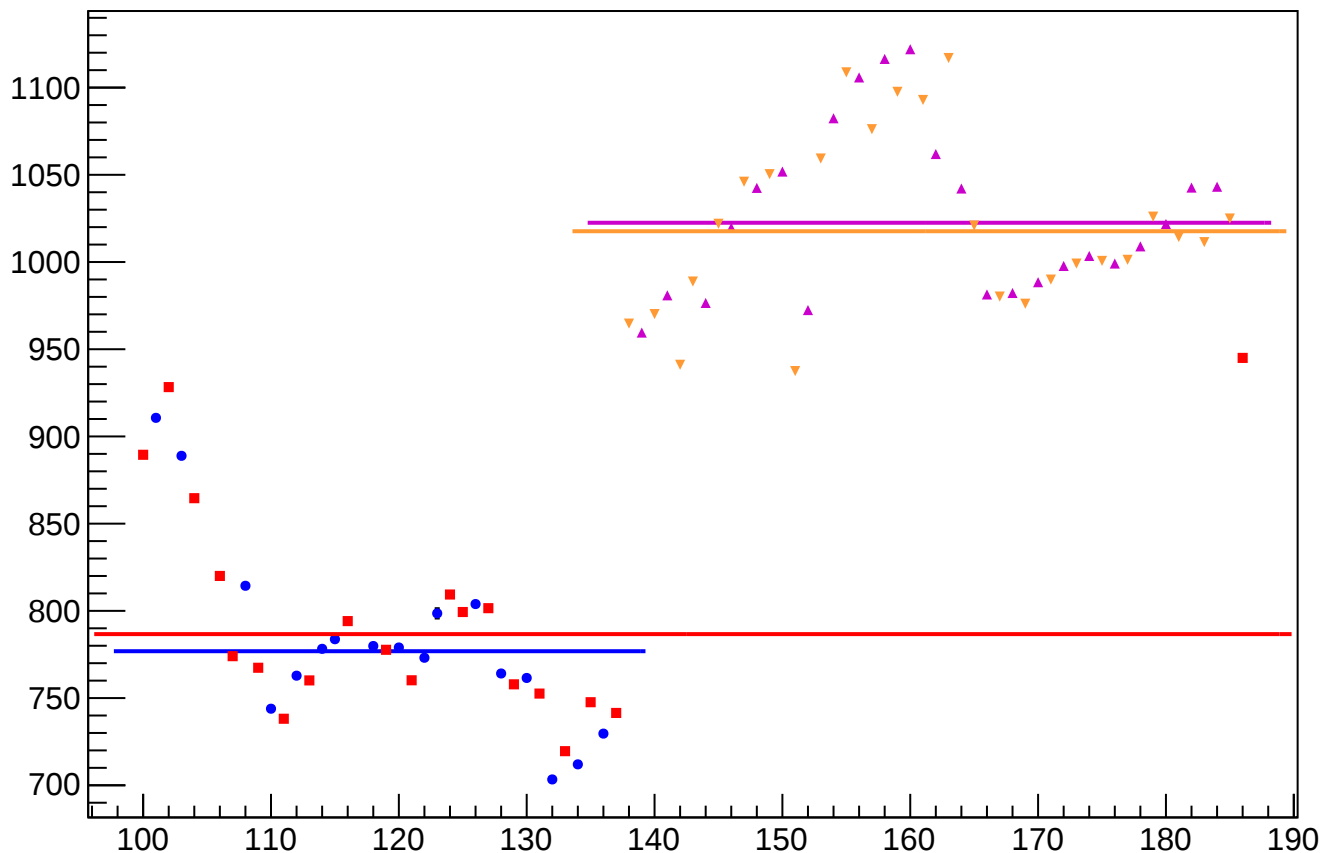
Right: 6.347 ± 0.208 χ^2/NDF : 34400.0/36

In: 5.253 ± 0.190 χ^2/NDF : 29367.1/39

Out: 10.505 ± 0.183 χ^2/NDF : 33252.6/44

All: 7.980 ± 0.132 χ^2/NDF : 63015.2/84

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.869 $\pm$ 0.212 χ^2/NDF : 67447.3/16

Left Out: 1017.653 $\pm$ 0.168 χ^2/NDF : 83612.5/24

Right Out: 786.673 $\pm$ 0.203 χ^2/NDF : 79606.1/19

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

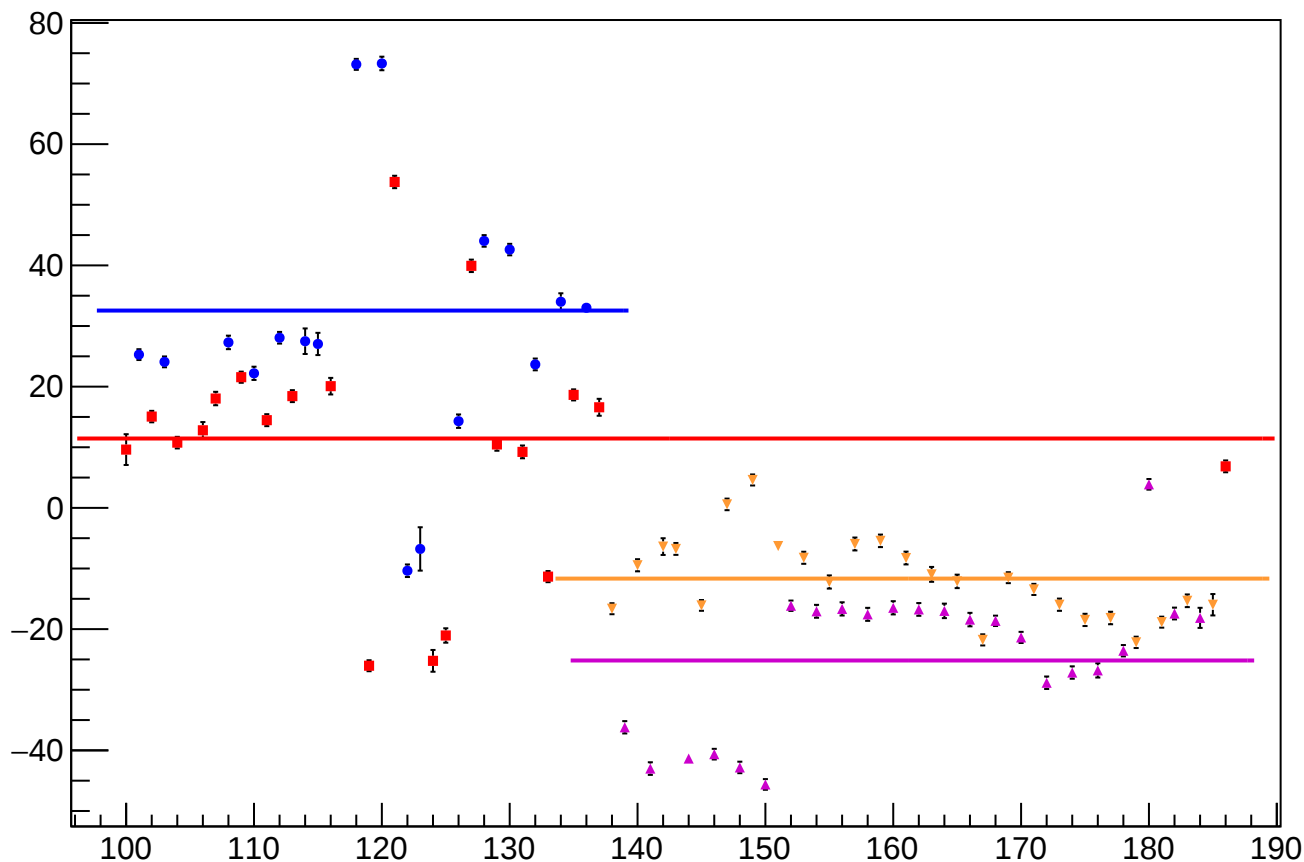
Right: 781.982 $\pm$ 0.147 χ^2/NDF : 148164.2/36

In: 924.002 $\pm$ 0.135 χ^2/NDF : 937923.9/39

Out: 924.121 $\pm$ 0.129 χ^2/NDF : 929885.9/44

All: 924.064 $\pm$ 0.093 χ^2/NDF : 1867810.3/84

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.550 +/- 0.253 χ^2/NDF : 6077.4/16

Left Out: -11.664 +/- 0.200 χ^2/NDF : 1147.4/24

Right Out: 11.443 +/- 0.240 χ^2/NDF : 6336.7/19

Left In: -25.174 +/- 0.207 χ^2/NDF : 3747.1/22

Left: -18.184 +/- 0.144 χ^2/NDF : 7090.4/47

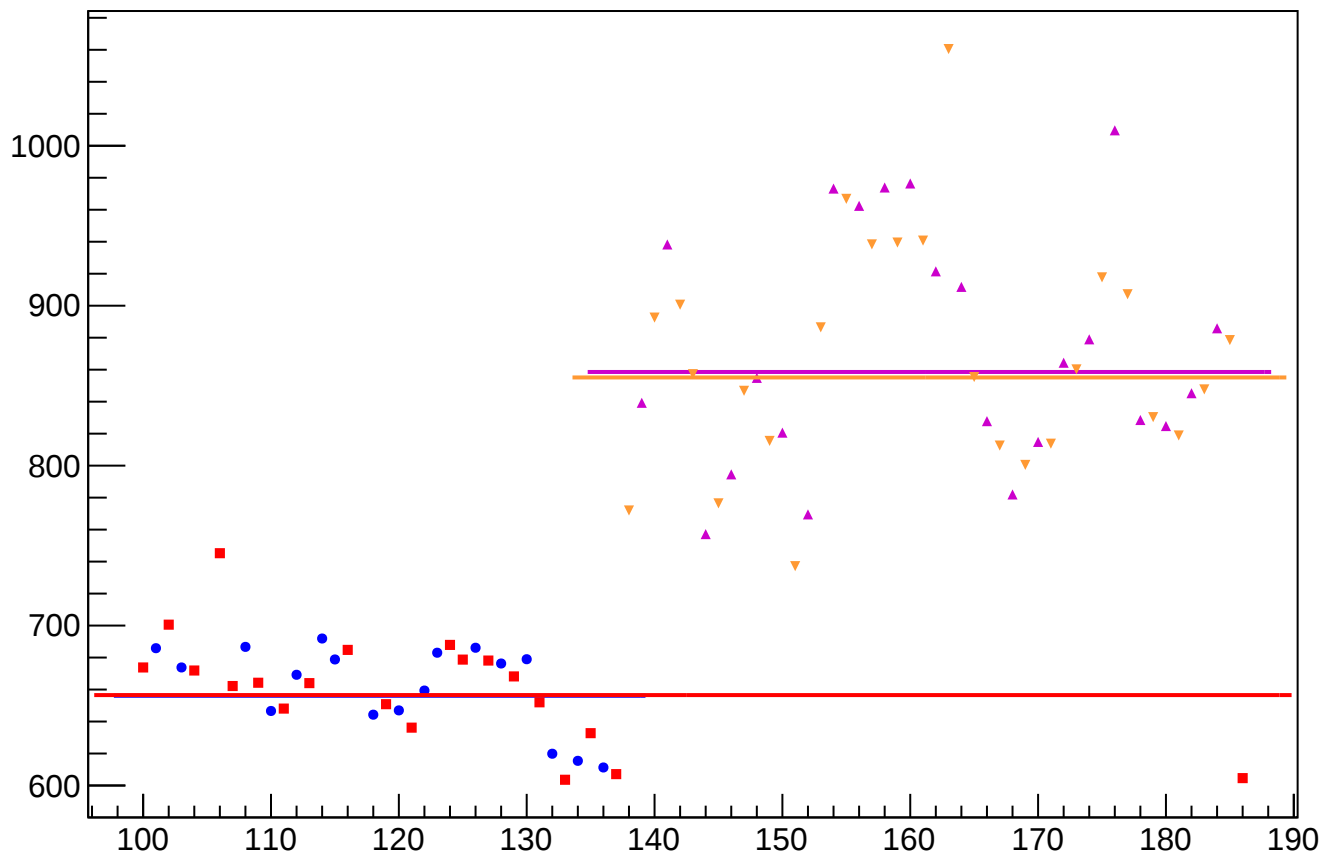
Right: 21.422 +/- 0.174 χ^2/NDF : 16075.1/36

In: -2.008 +/- 0.160 χ^2/NDF : 40918.7/39

Out: -2.172 +/- 0.154 χ^2/NDF : 12951.9/44

All: -2.093 +/- 0.111 χ^2/NDF : 53871.2/84

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.132 $\pm$ 0.179 χ^2/NDF : 23518.0/16

Left Out: 855.131 $\pm$ 0.142 χ^2/NDF : 233746.7/24

Right Out: 656.535 $\pm$ 0.170 χ^2/NDF : 34261.9/19

Left In: 858.563 $\pm$ 0.147 χ^2/NDF : 239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2/NDF : 473049.9/47

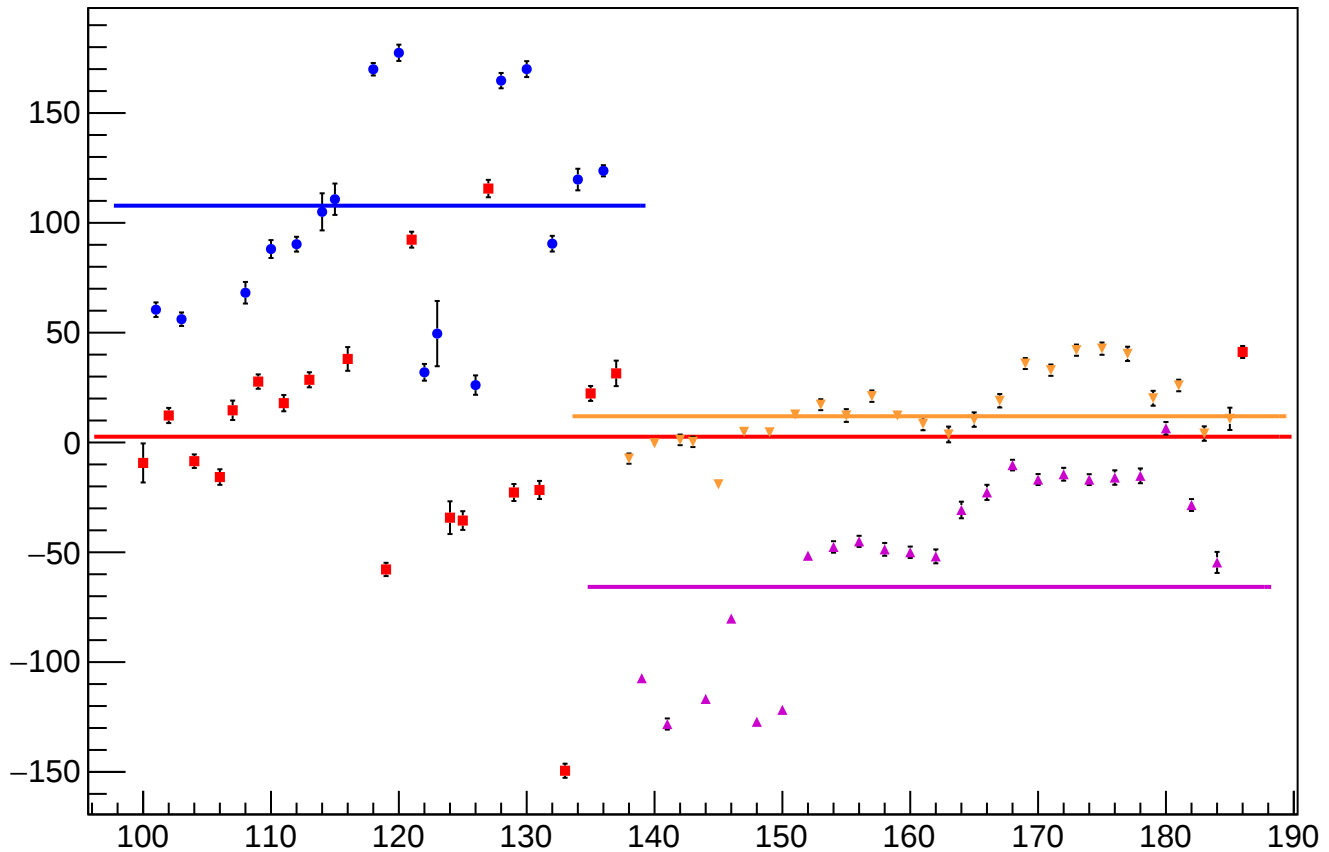
Right: 656.344 $\pm$ 0.123 χ^2/NDF : 57782.6/36

In: 777.325 $\pm$ 0.113 χ^2/NDF : 1027362.9/39

Out: 773.549 $\pm$ 0.109 χ^2/NDF : 1075817.9/44

All: 775.356 $\pm$ 0.078 χ^2/NDF : 2103758.2/84

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.816 ± 0.923 $\chi^2/\text{NDF}: 2815.8/16$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: 2.621 ± 0.842 $\chi^2/\text{NDF}: 4733.1/19$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

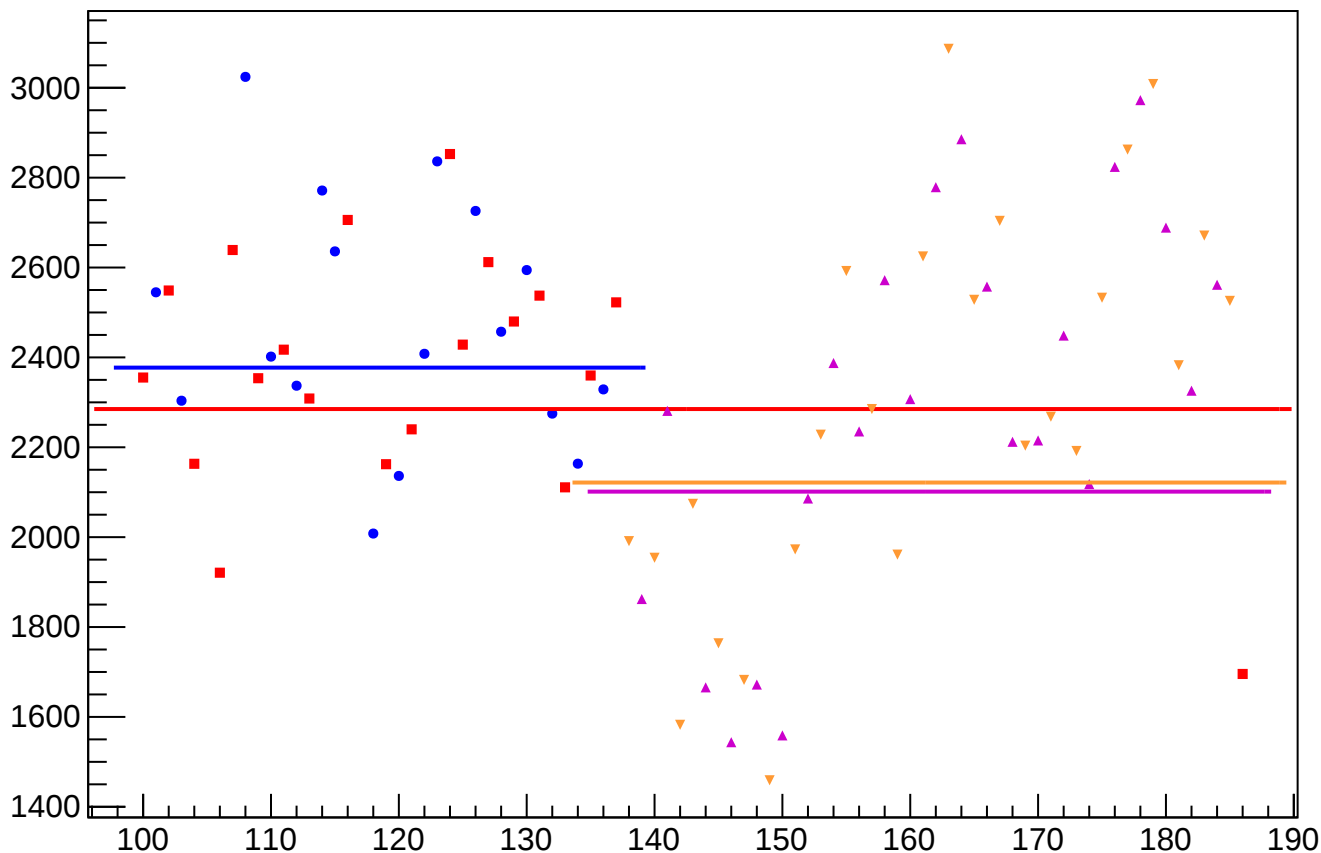
Right: 50.409 ± 0.622 $\chi^2/\text{NDF}: 14636.2/36$

In: -24.223 ± 0.452 $\chi^2/\text{NDF}: 37047.8/39$

Out: 9.472 ± 0.433 $\chi^2/\text{NDF}: 5799.7/44$

All: -6.682 ± 0.313 $\chi^2/\text{NDF}: 45746.6/84$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.271 ± 0.653 χ^2/NDF : 119441.2/16

Left Out: 2121.567 ± 0.357 χ^2/NDF : 1387847.6/24

Right Out: 2285.093 ± 0.596 χ^2/NDF : 210443.1/19

Left In: 2101.325 ± 0.366 χ^2/NDF : 1360518.3/22

Left: 2111.691 ± 0.256 χ^2/NDF : 2749931.8/47

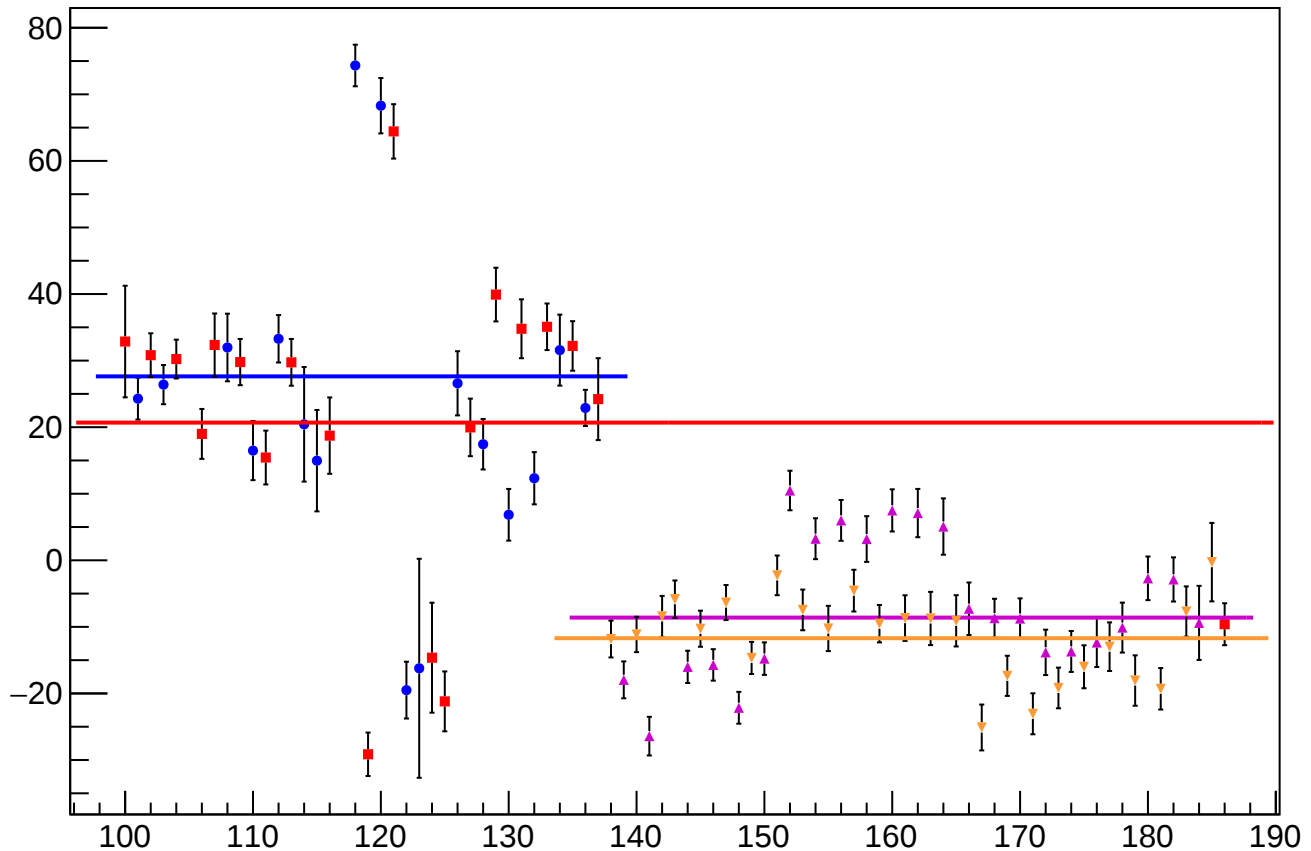
Right: 2326.967 ± 0.440 χ^2/NDF : 340768.0/36

In: 2167.349 ± 0.319 χ^2/NDF : 1615926.7/39

Out: 2164.854 ± 0.306 χ^2/NDF : 1653732.3/44

All: 2166.050 ± 0.221 χ^2/NDF : 3269690.8/84

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.633 ± 0.976 $\chi^2/\text{NDF}: 517.1/16$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 20.688 ± 0.891 $\chi^2/\text{NDF}: 648.8/19$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

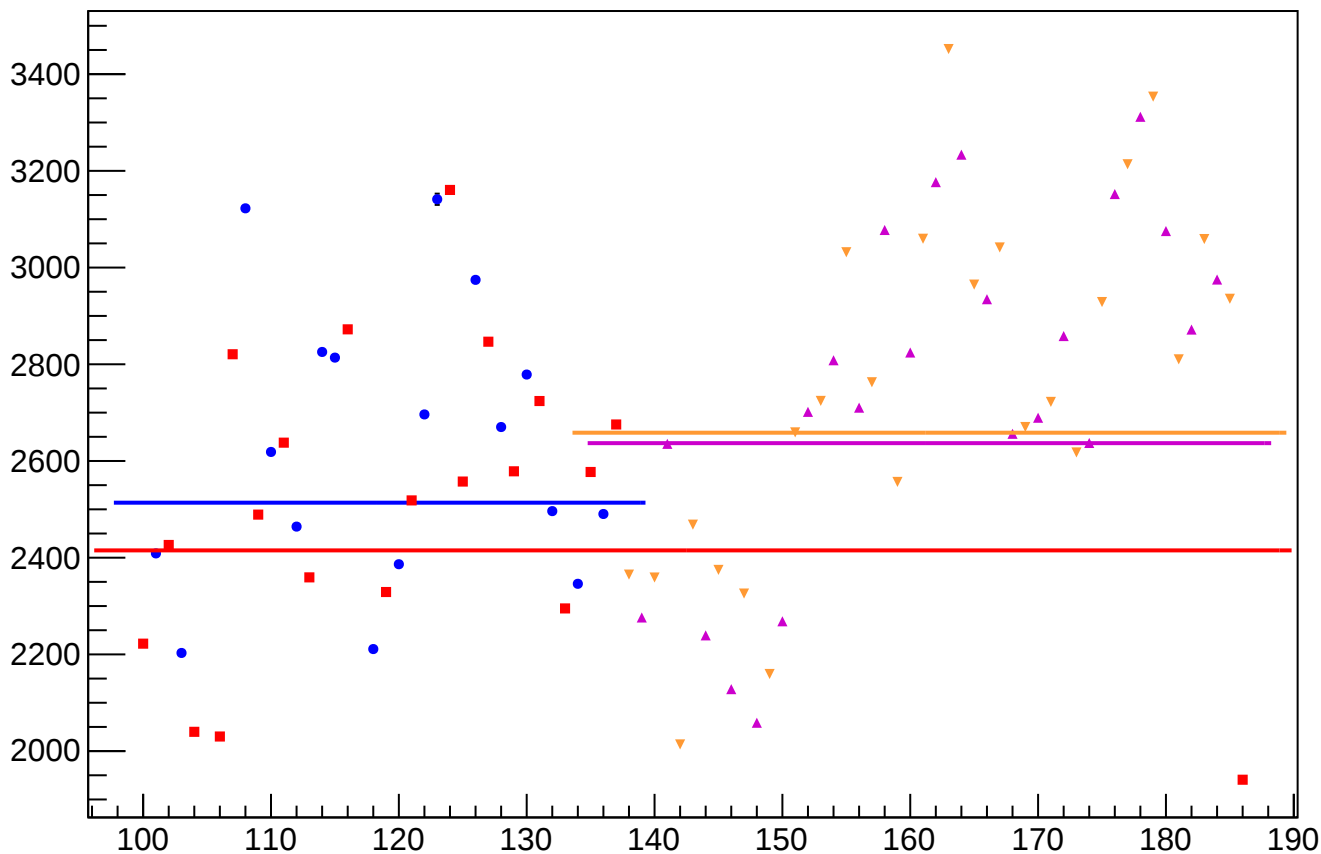
Right: 23.842 ± 0.658 $\chi^2/\text{NDF}: 1193.5/36$

In: 2.331 ± 0.536 $\chi^2/\text{NDF}: 1743.2/39$

Out: -1.003 ± 0.512 $\chi^2/\text{NDF}: 1619.5/44$

All: 0.586 ± 0.370 $\chi^2/\text{NDF}: 3382.9/84$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2513.762 $\pm$ 0.690 χ^2 /NDF: 120863.4/16

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2415.101 $\pm$ 0.630 χ^2 /NDF: 199197.7/19

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

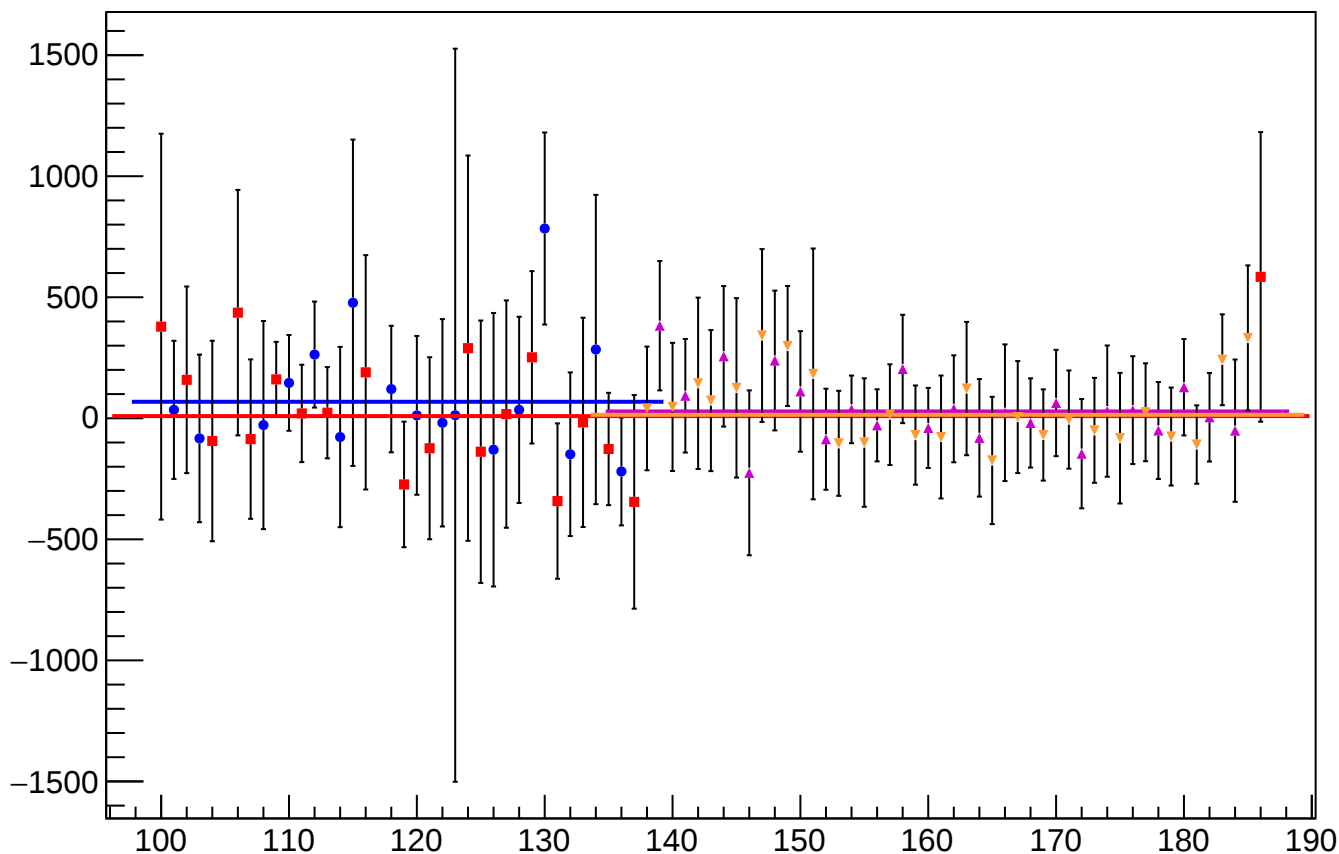
Right: 2459.910 $\pm$ 0.465 χ^2 /NDF: 331208.4/36

In: 2599.725 $\pm$ 0.379 χ^2 /NDF: 795964.3/39

Out: 2578.098 $\pm$ 0.362 χ^2 /NDF: 917363.4/44

All: 2588.406 $\pm$ 0.262 χ^2 /NDF: 1715029.5/84

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.238+/-79.240 χ^2/NDF : 7.4/16

Left Out: 14.520+/-47.528 χ^2/NDF : 7.8/24

Right Out: 9.074+/-69.516 χ^2/NDF : 7.4/19

Left In: 28.310+/-44.638 χ^2/NDF : 6.3/22

Left: 21.847+/-32.538 χ^2/NDF : 14.1/47

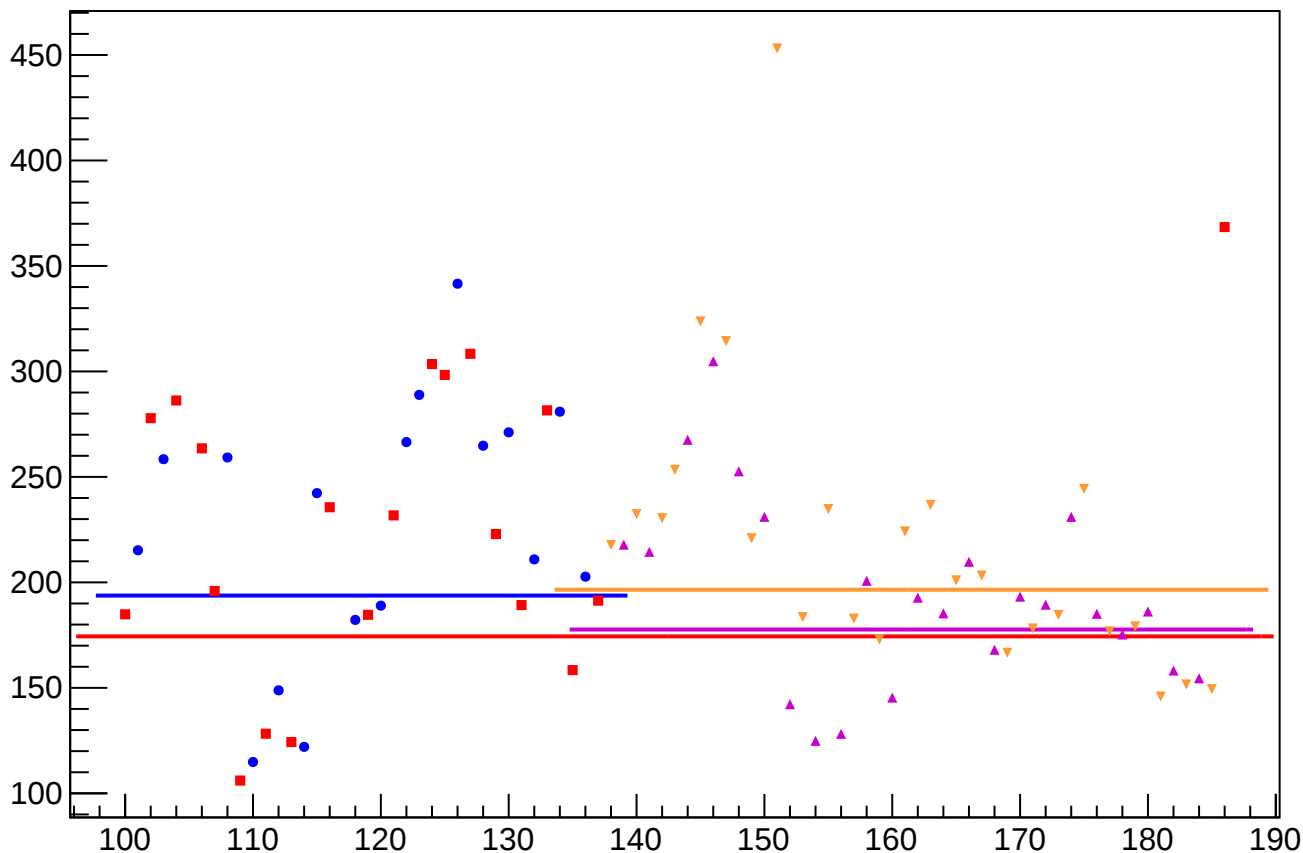
Right: 34.805+/-52.257 χ^2/NDF : 15.1/36

In: 37.928+/-38.892 χ^2/NDF : 13.9/39

Out: 12.785+/-39.235 χ^2/NDF : 15.2/44

All: 25.467+/-27.621 χ^2/NDF : 29.3/84

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.749+/-0.056 χ^2/NDF : 1011115.2/16

Left Out: 196.514+/-0.034 χ^2/NDF : 1789504.4/24

Right Out: 174.398+/-0.049 χ^2/NDF : 1784755.5/19

Left In: 177.643+/-0.032 χ^2/NDF : 1630664.5/22

Left: 186.488+/-0.023 χ^2/NDF : 3587689.7/47

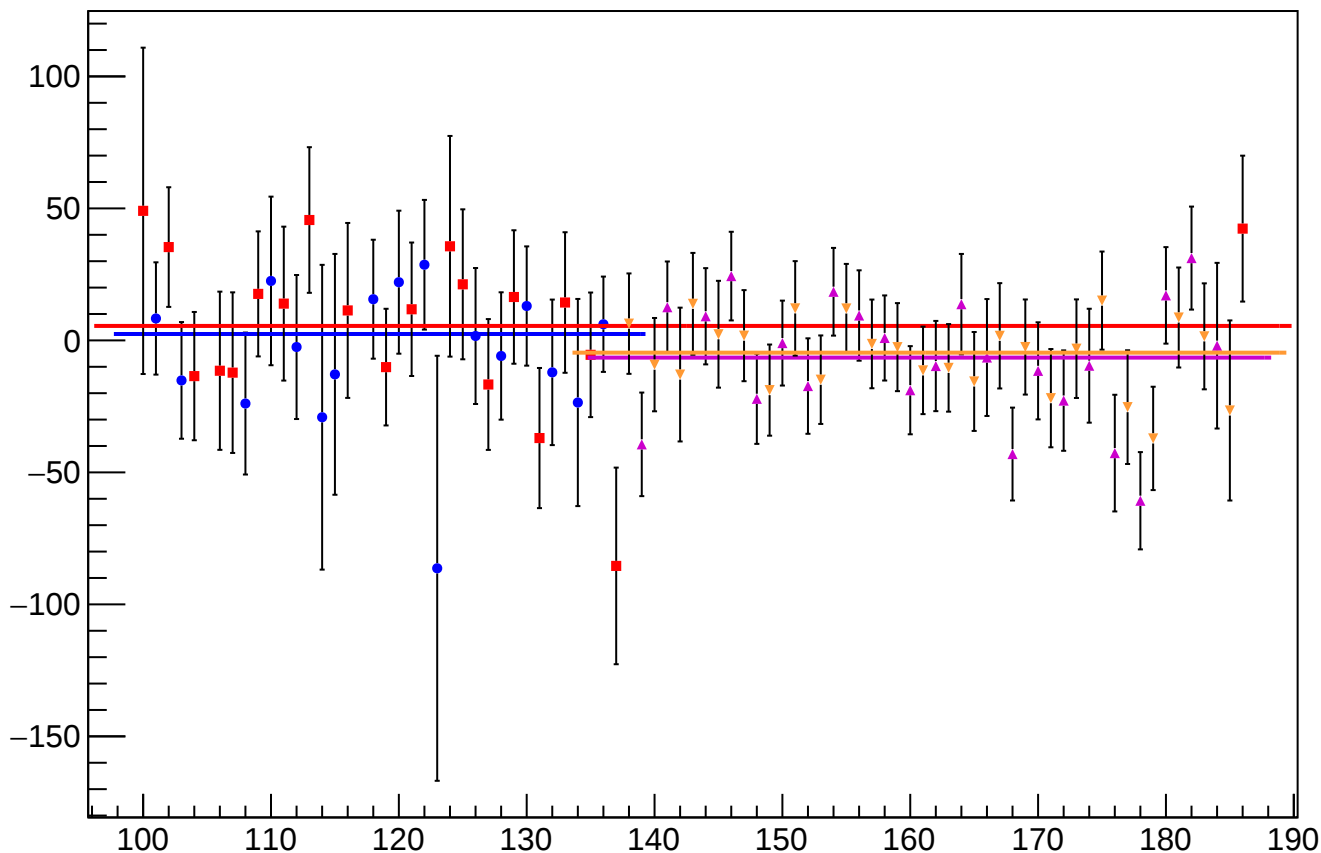
Right: 182.814+/-0.037 χ^2/NDF : 2863273.6/36

In: 181.523+/-0.028 χ^2/NDF : 2704498.9/39

Out: 189.469+/-0.028 χ^2/NDF : 3712211.7/44

All: 185.461+/-0.020 χ^2/NDF : 6458086.6/84

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.423+/-6.440 χ^2/NDF : 6.8/16

Left Out: -4.646+/-3.728 χ^2/NDF : 12.1/24

Right Out: 5.481+/-6.137 χ^2/NDF : 19.0/19

Left In: -6.526+/-3.828 χ^2/NDF : 36.4/22

Left: -5.561+/-2.670 χ^2/NDF : 48.6/47

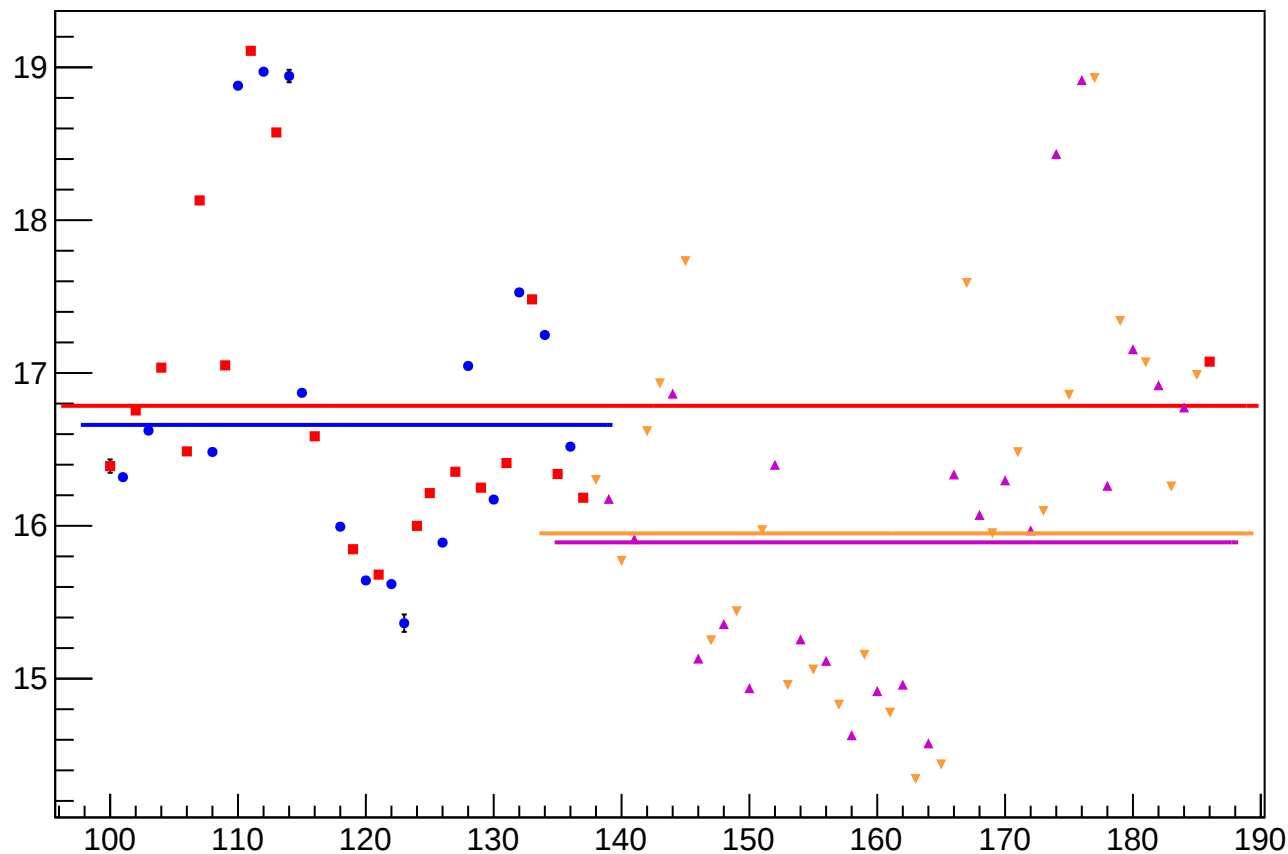
Right: 4.025+/-4.443 χ^2/NDF : 26.0/36

In: -4.190+/-3.290 χ^2/NDF : 44.6/39

Out: -1.916+/-3.186 χ^2/NDF : 33.0/44

All: -3.017+/-2.289 χ^2/NDF : 77.9/84

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.660 $\pm$ 0.005 χ^2 /NDF: 42269.4/16

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.785 $\pm$ 0.004 χ^2 /NDF: 39489.1/19

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

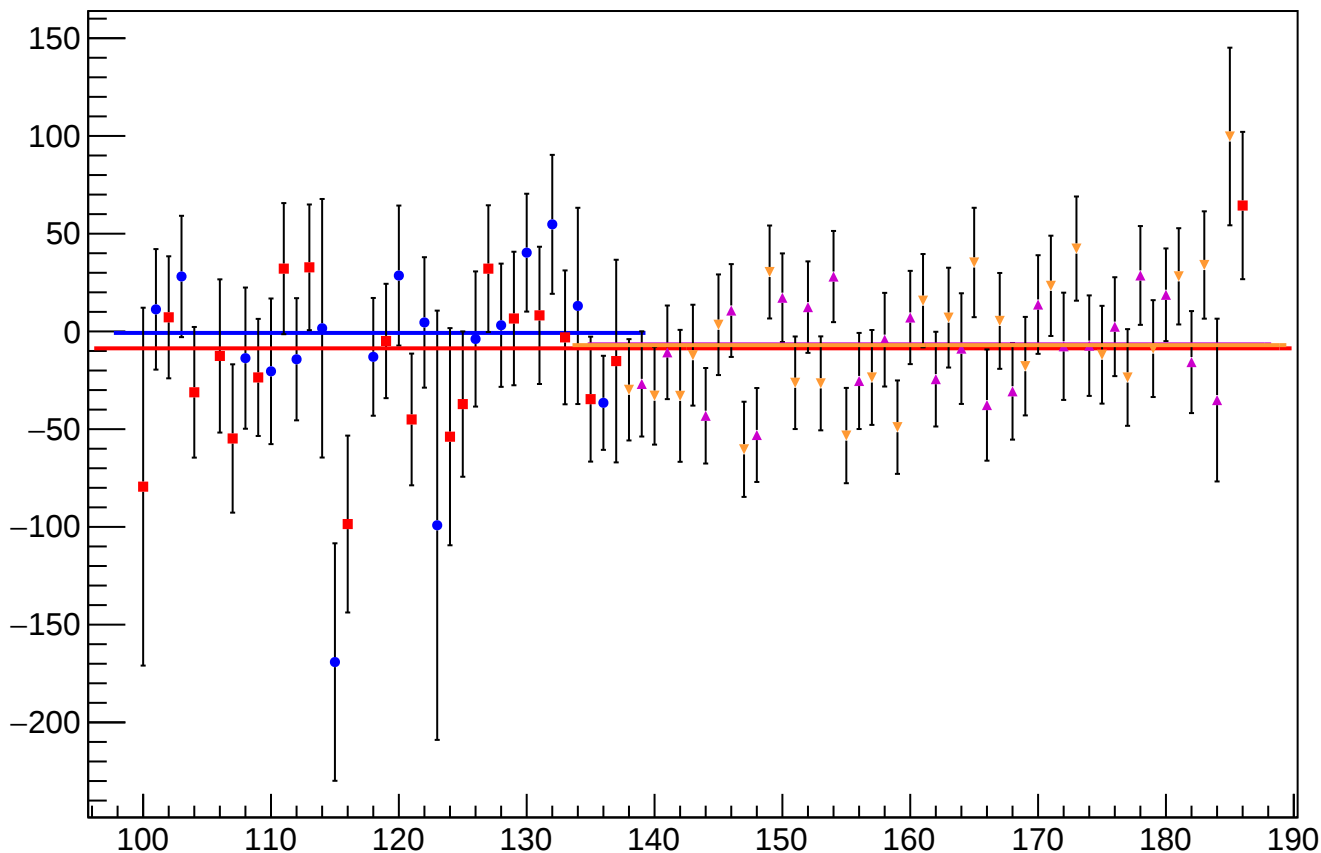
Right: 16.726 $\pm$ 0.003 χ^2 /NDF: 82153.7/36

In: 16.092 $\pm$ 0.002 χ^2 /NDF:210402.2/39

Out: 16.176 $\pm$ 0.002 χ^2 /NDF:239968.5/44

All: 16.135 $\pm$ 0.002 χ^2 /NDF: 451031.3/84

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.764 ± 8.505 $\chi^2/\text{NDF}: 17.6/16$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -8.651 ± 8.039 $\chi^2/\text{NDF}: 19.0/19$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

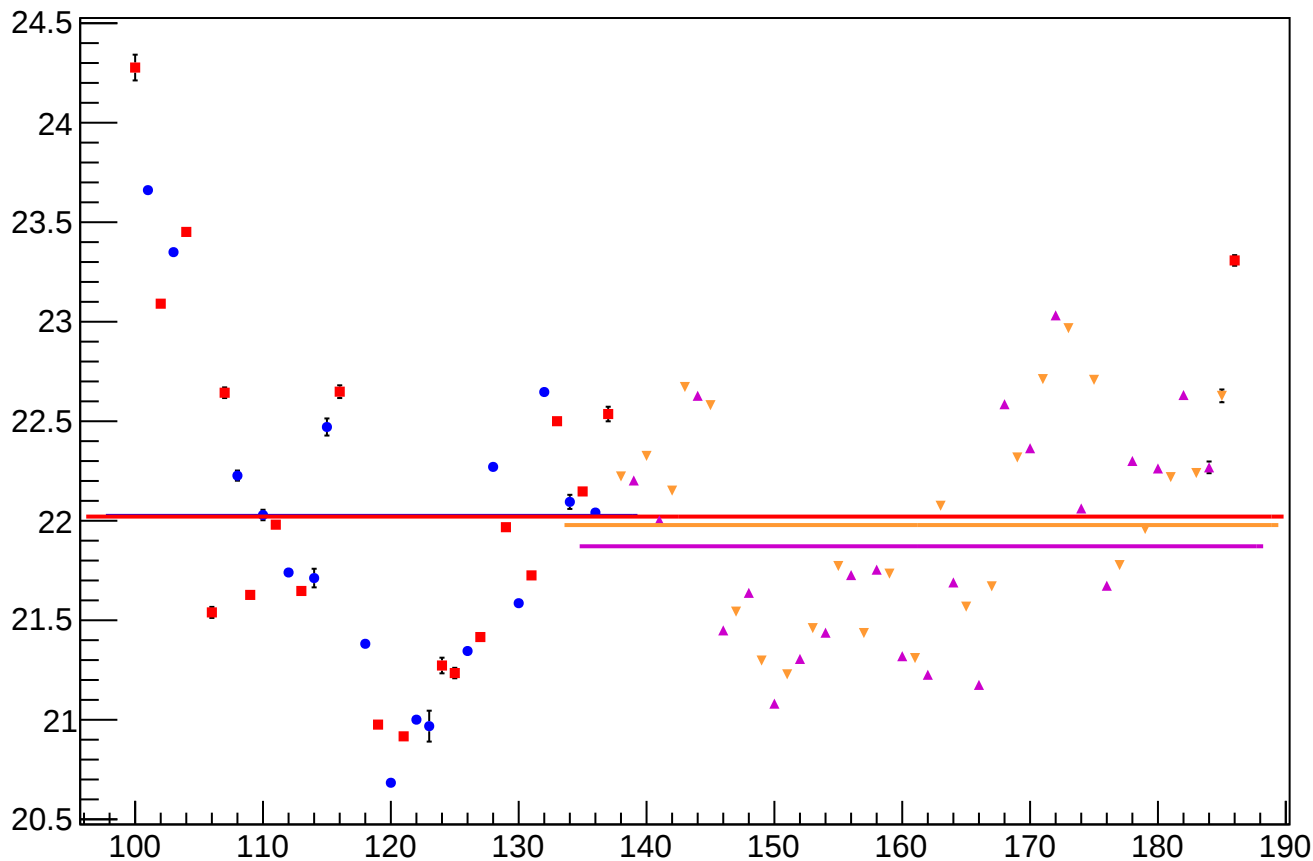
Right: -4.930 ± 5.842 $\chi^2/\text{NDF}: 37.1/36$

In: -4.998 ± 4.468 $\chi^2/\text{NDF}: 37.0/39$

Out: -7.489 ± 4.319 $\chi^2/\text{NDF}: 56.5/44$

All: -6.286 ± 3.106 $\chi^2/\text{NDF}: 93.7/84$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.024 ± 0.006 $\chi^2/\text{NDF}: 17381.0/16$

Left Out: 21.978 ± 0.004 $\chi^2/\text{NDF}: 19430.2/24$

Right Out: 22.021 ± 0.006 $\chi^2/\text{NDF}: 18827.9/19$

Left In: 21.872 ± 0.004 $\chi^2/\text{NDF}: 20524.9/22$

Left: 21.926 ± 0.003 $\chi^2/\text{NDF}: 40377.5/47$

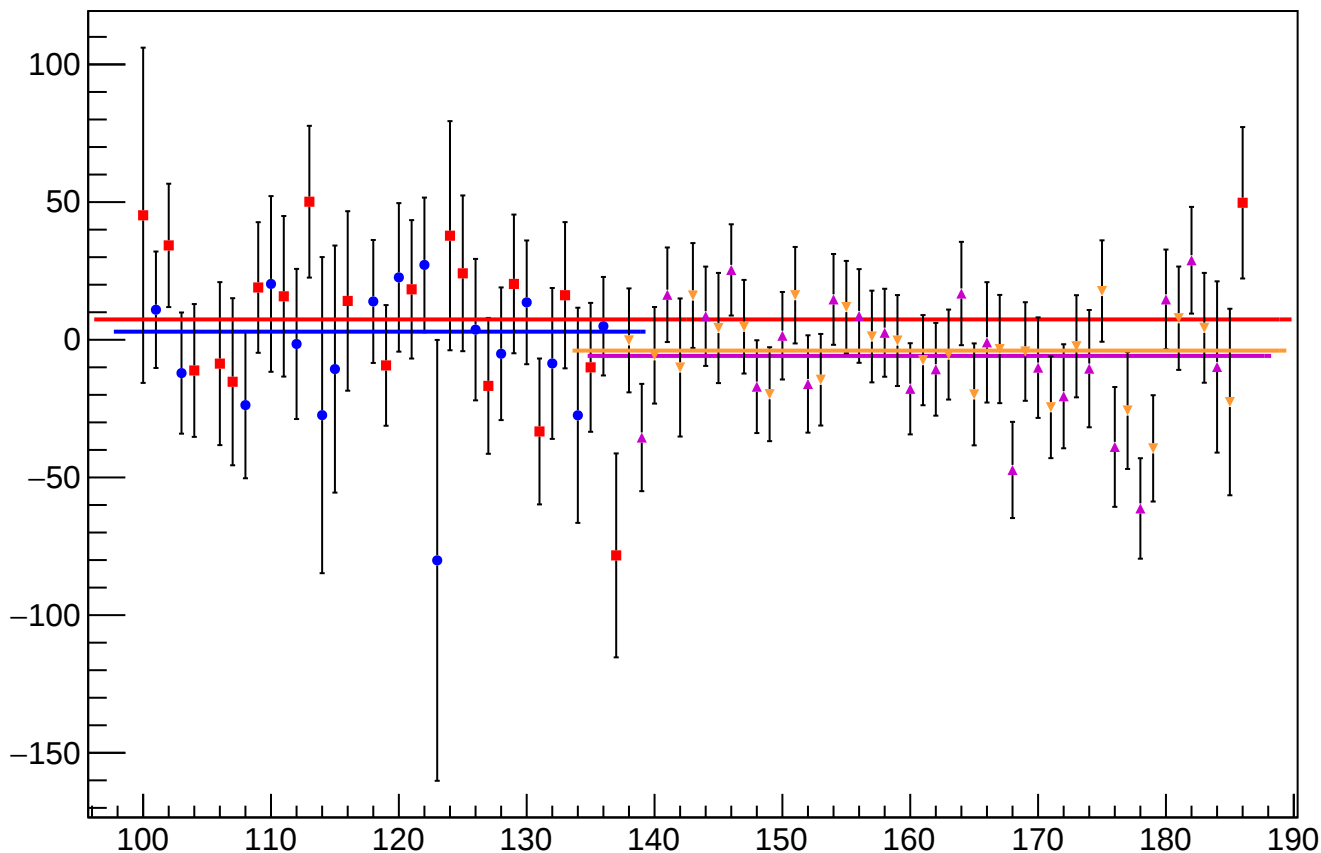
Right: 22.023 ± 0.004 $\chi^2/\text{NDF}: 36209.1/36$

In: 21.914 ± 0.003 $\chi^2/\text{NDF}: 38372.6/39$

Out: 21.991 ± 0.003 $\chi^2/\text{NDF}: 38298.0/44$

All: 21.954 ± 0.002 $\chi^2/\text{NDF}: 76975.7/84$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.948 $\pm$ 6.404 χ^2 /NDF: 6.3/16

Left Out: -3.927 $\pm$ 3.688 χ^2 /NDF:14.0/24

Right Out: 7.394 $\pm$ 6.102 χ^2 /NDF: 19.7/19

Left In: -5.861 $\pm$ 3.787 χ^2 /NDF:36.2/22

Left: -4.869 $\pm$ 2.642 χ^2 /NDF: 50.3/47

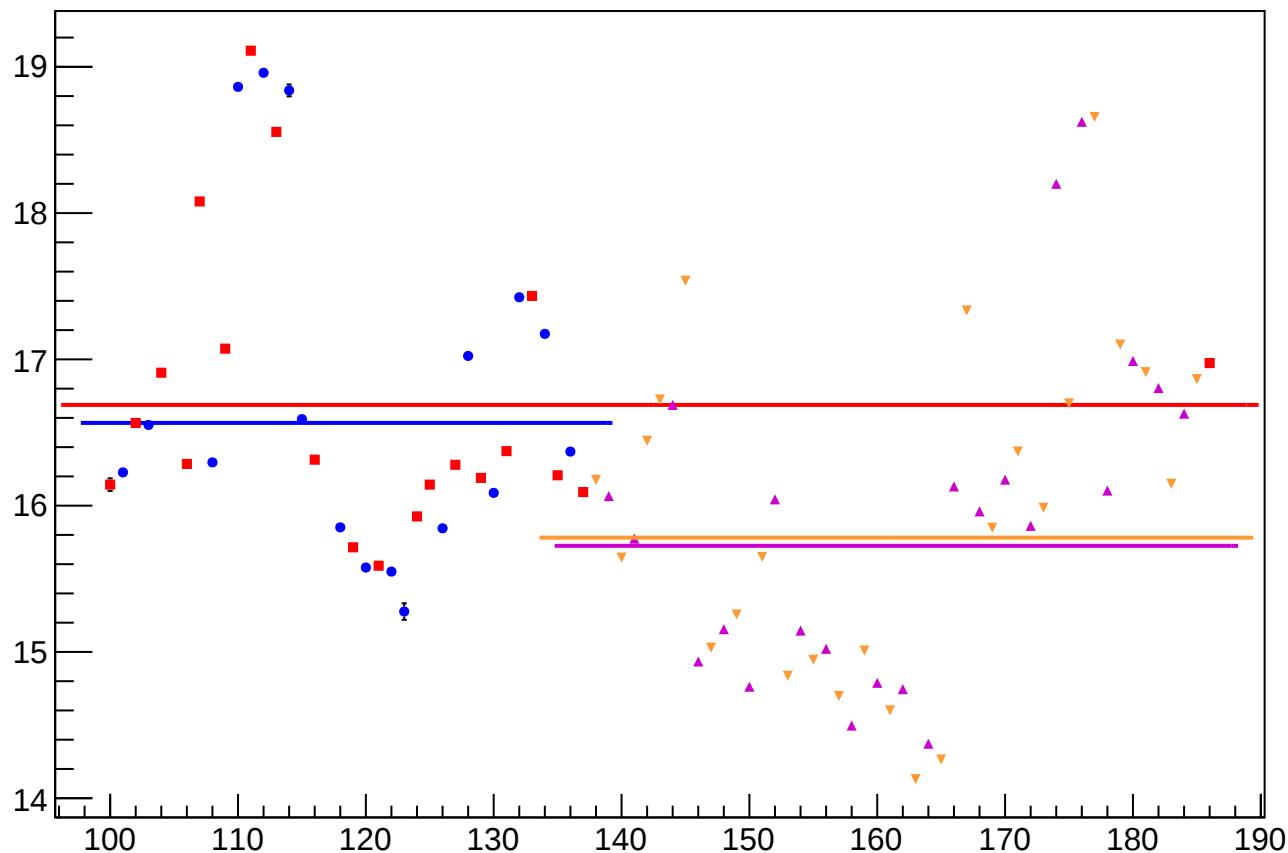
Right: 5.278 $\pm$ 4.418 χ^2 /NDF: 26.2/36

In: -3.579 $\pm$ 3.260 χ^2 /NDF:43.9/39

Out: -0.899 $\pm$ 3.156 χ^2 /NDF:36.2/44

All: -2.196 $\pm$ 2.268 χ^2 /NDF: 80.4/84

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.566 $\pm$ 0.005 χ^2/NDF : 44242.8/16

Left Out: 15.781 $\pm$ 0.003 χ^2/NDF :172894.3/24

Right Out: 16.689 $\pm$ 0.004 χ^2/NDF : 42681.2/19

Left In: 15.725 $\pm$ 0.003 χ^2/NDF :145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2/NDF : 318948.8/47

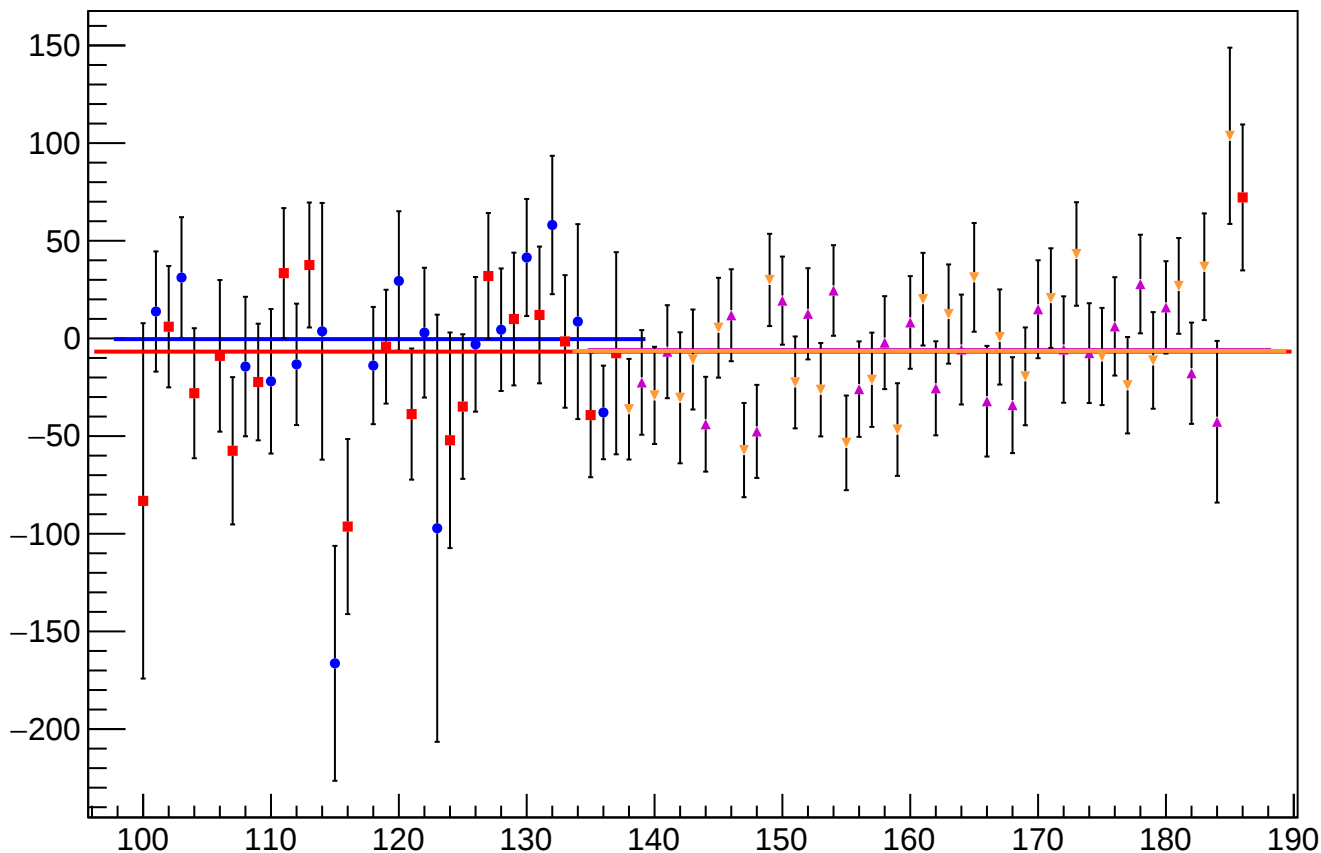
Right: 16.630 $\pm$ 0.003 χ^2/NDF : 87310.3/36

In: 15.943 $\pm$ 0.002 χ^2/NDF :215588.3/39

Out: 16.024 $\pm$ 0.002 χ^2/NDF :247963.5/44

All: 15.985 $\pm$ 0.002 χ^2/NDF : 464187.9/84

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.358 ± 8.465 χ^2/NDF : 18.4/16

Left Out: -6.404 ± 5.091 χ^2/NDF : 37.4/24

Right Out: -6.757 ± 7.997 χ^2/NDF : 20.4/19

Left In: -5.978 ± 5.222 χ^2/NDF : 18.5/22

Left: -6.196 ± 3.646 χ^2/NDF : 55.9/47

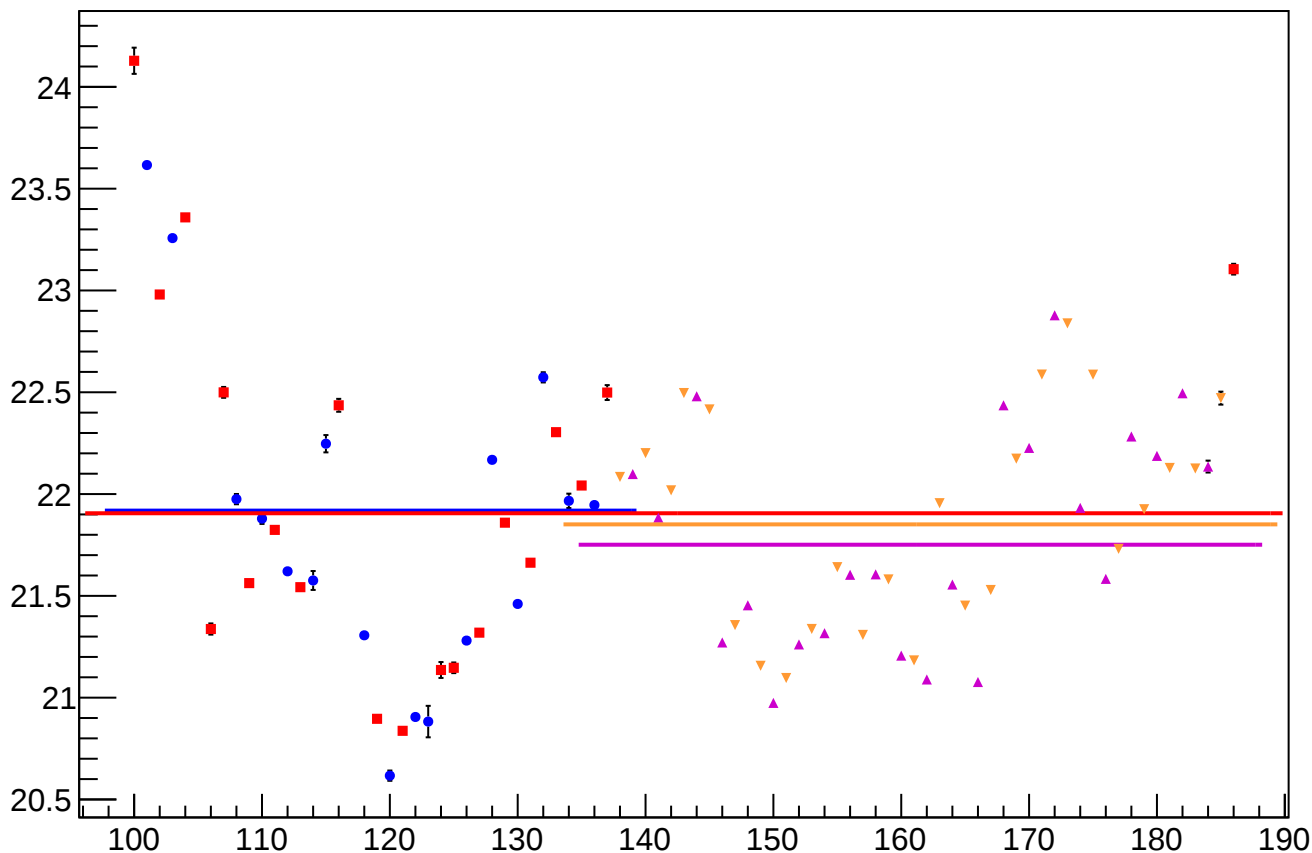
Right: -3.739 ± 5.813 χ^2/NDF : 39.1/36

In: -4.428 ± 4.445 χ^2/NDF : 37.3/39

Out: -6.506 ± 4.295 χ^2/NDF : 57.8/44

All: -5.503 ± 3.088 χ^2/NDF : 95.2/84

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.919 $\pm$ 0.006 χ^2 /NDF: 17641.8/16

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF: 19631.8/24

Right Out: 21.906 $\pm$ 0.006 χ^2 /NDF: 18190.5/19

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF: 20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

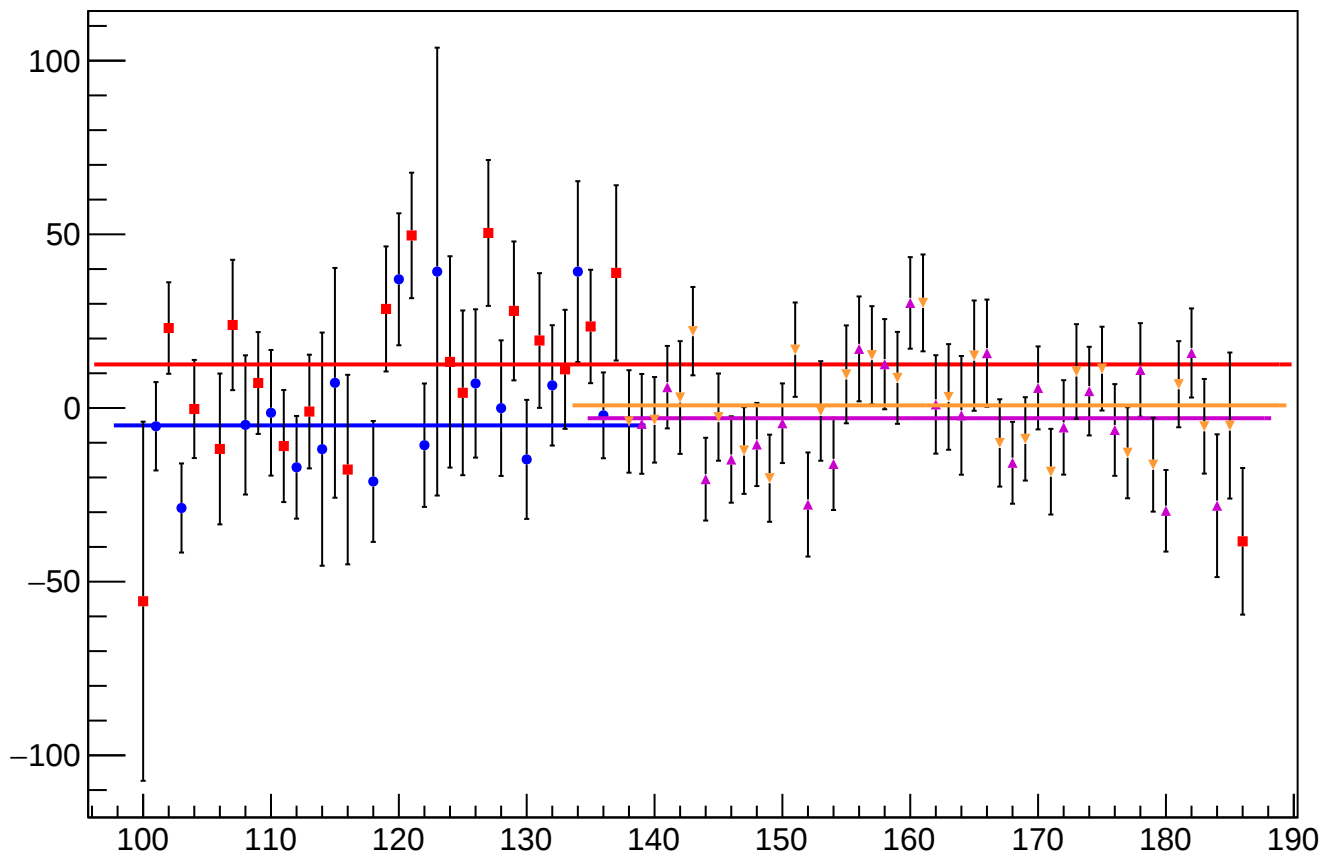
Right: 21.912 $\pm$ 0.004 χ^2 /NDF: 35834.8/36

In: 21.797 $\pm$ 0.003 χ^2 /NDF: 38725.3/39

Out: 21.867 $\pm$ 0.003 χ^2 /NDF: 37888.6/44

All: 21.833 $\pm$ 0.002 χ^2 /NDF: 76866.8/84

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.010 ± 4.334 χ^2/NDF : 14.8/16

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 12.545 ± 4.186 χ^2/NDF : 25.5/19

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

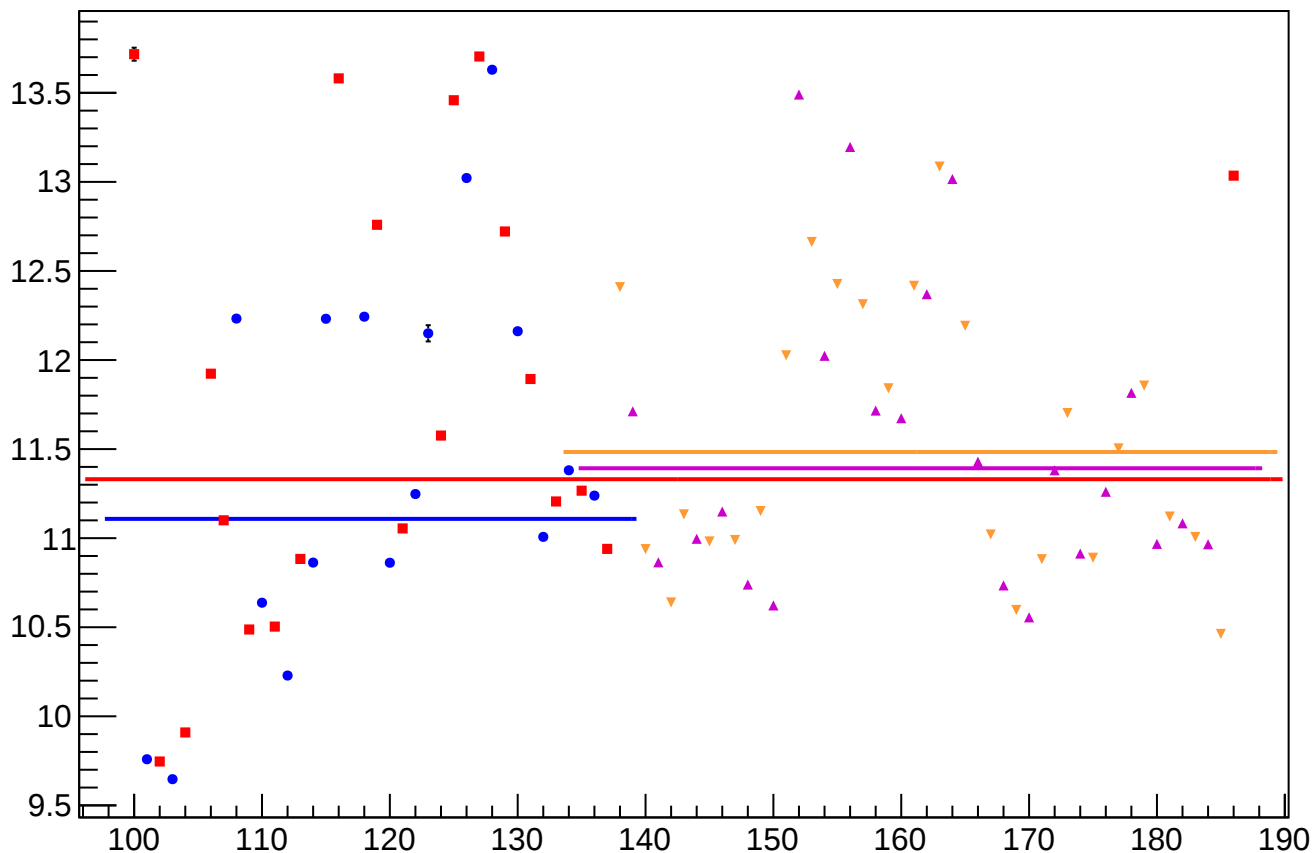
Right: 4.073 ± 3.011 χ^2/NDF : 48.7/36

In: -3.540 ± 2.326 χ^2/NDF : 45.9/39

Out: 4.219 ± 2.268 χ^2/NDF : 54.9/44

All: 0.439 ± 1.624 χ^2/NDF : 106.4/84

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.108 $\pm$ 0.003 χ^2 /NDF: 132594.7/16

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 11.331 $\pm$ 0.003 χ^2 /NDF: 162016.3/19

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

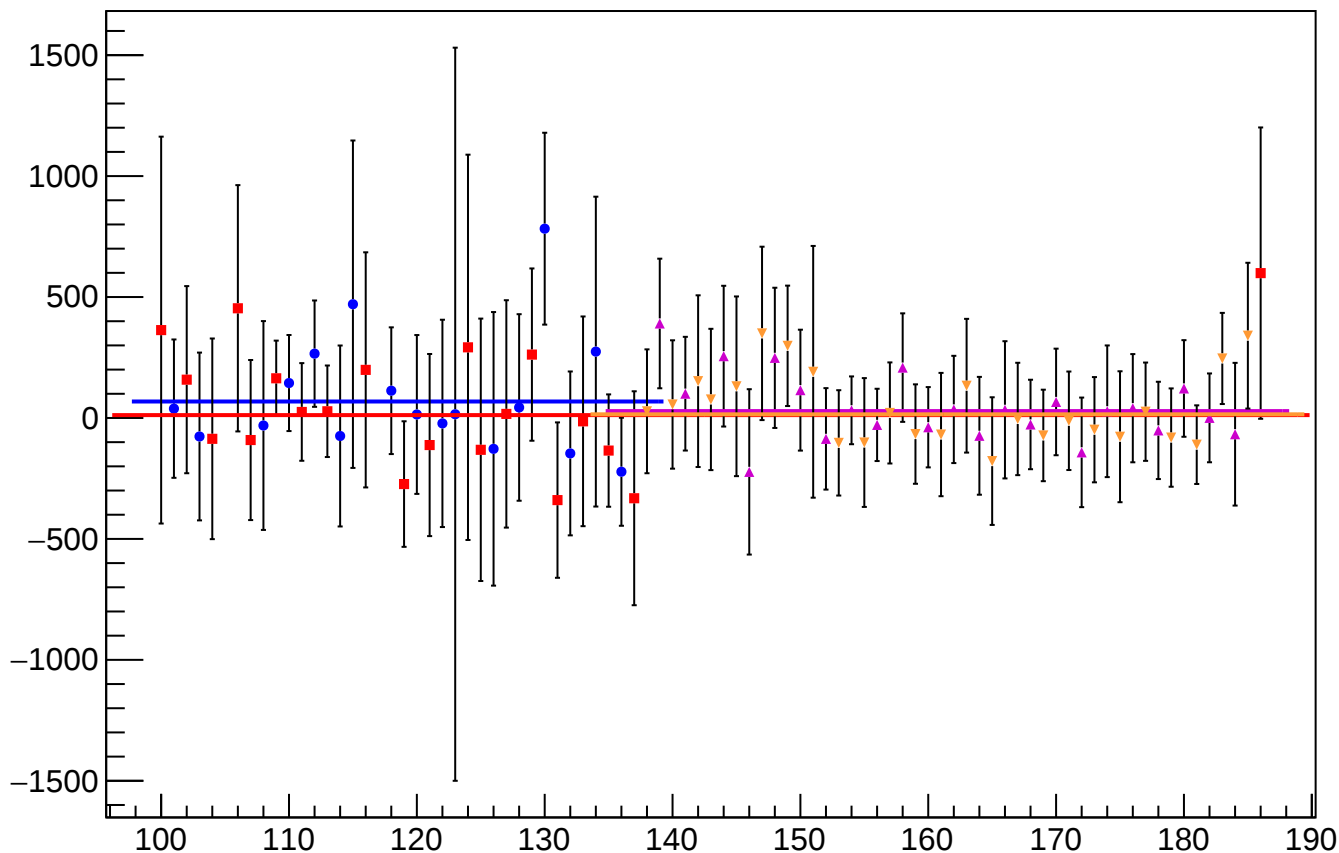
Right: 11.223 $\pm$ 0.002 χ^2 /NDF: 297342.0/36

In: 11.311 $\pm$ 0.002 χ^2 /NDF:289205.8/39

Out: 11.439 $\pm$ 0.002 χ^2 /NDF:293704.0/44

All: 11.376 $\pm$ 0.001 χ^2 /NDF: 586030.5/84

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.114+/-79.449 χ^2/NDF : 7.4/16

Left Out: 15.130+/-47.705 χ^2/NDF : 8.0/24

Right Out: 11.852+/-69.722 χ^2/NDF : 7.5/19

Left In: 28.500+/-44.797 χ^2/NDF : 6.4/22

Left: 22.235+/-32.656 χ^2/NDF : 14.4/47

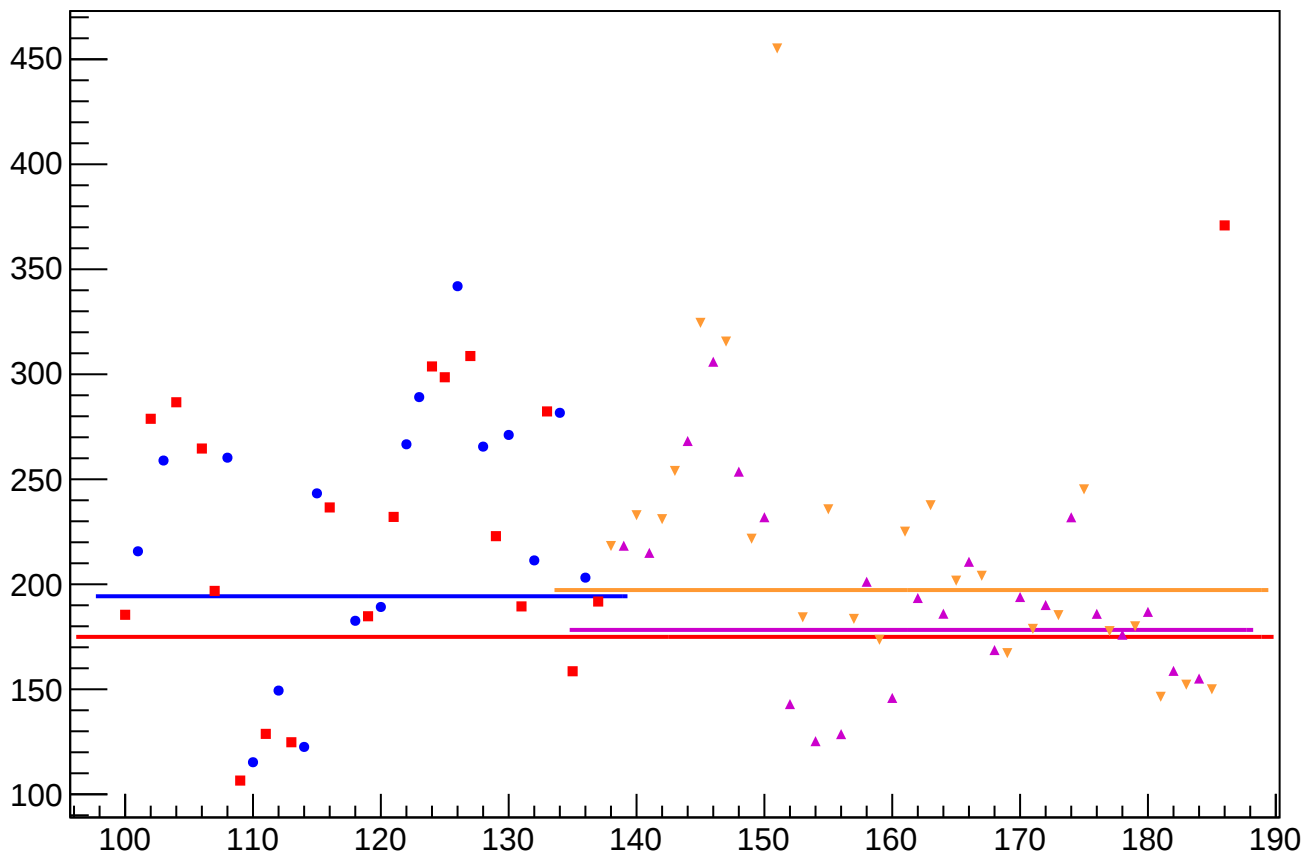
Right: 36.330+/-52.405 χ^2/NDF : 15.2/36

In: 38.056+/-39.021 χ^2/NDF : 13.9/39

Out: 14.085+/-39.371 χ^2/NDF : 15.5/44

All: 26.177+/-27.715 χ^2/NDF : 29.6/84

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.298 $\pm$ 0.056 χ^2 /NDF: 1006214.8/16

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF: 1786808.1/24

Right Out: 174.955 $\pm$ 0.049 χ^2 /NDF: 1778748.1/19

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

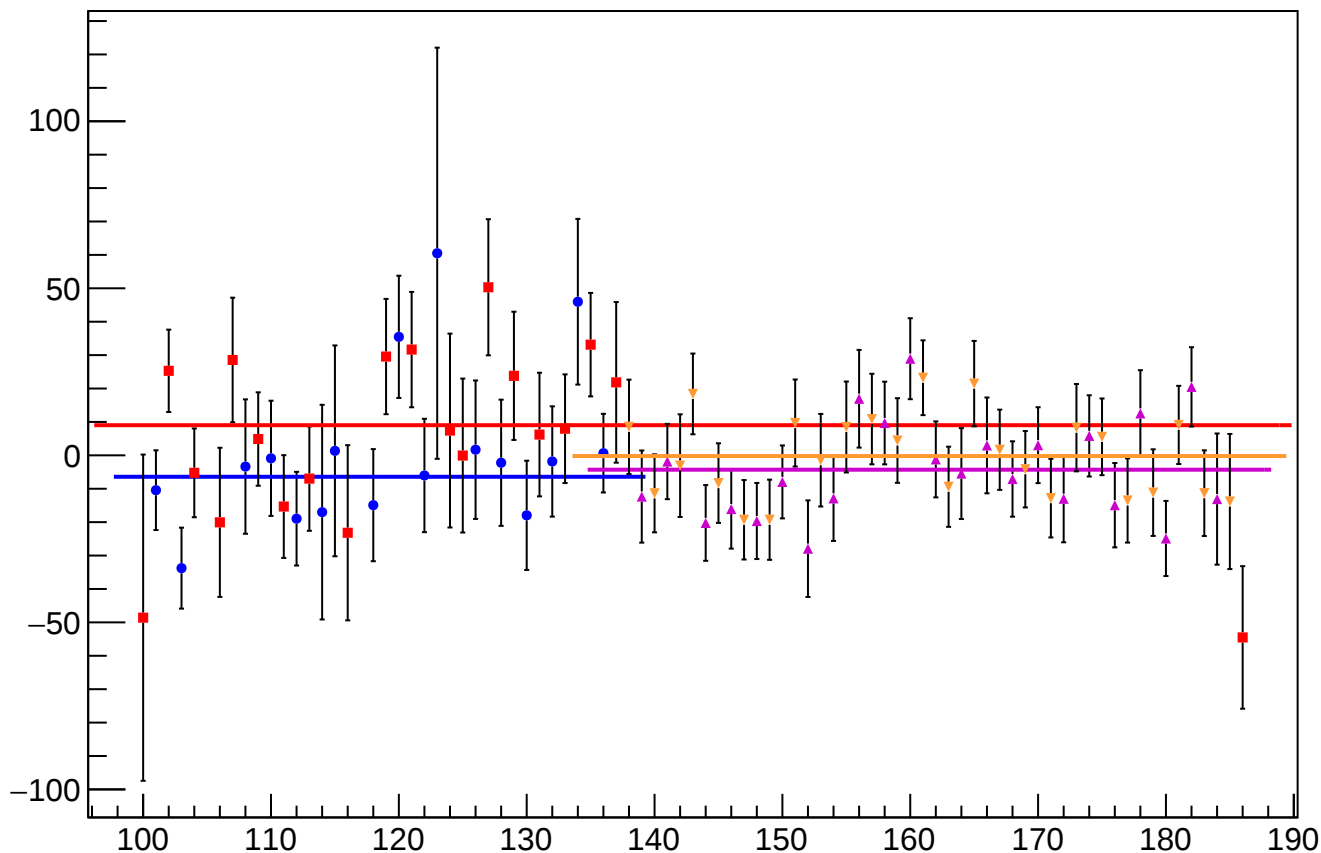
Right: 183.371 $\pm$ 0.037 χ^2 /NDF: 2851932.5/36

In: 182.142 $\pm$ 0.028 χ^2 /NDF: 2696837.8/39

Out: 190.140 $\pm$ 0.028 χ^2 /NDF: 3704839.5/44

All: 186.105 $\pm$ 0.020 χ^2 /NDF: 6443320.8/84

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.419 ± 4.138 $\chi^2/\text{NDF}: 18.6/16$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 9.023 ± 4.012 $\chi^2/\text{NDF}: 31.8/19$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

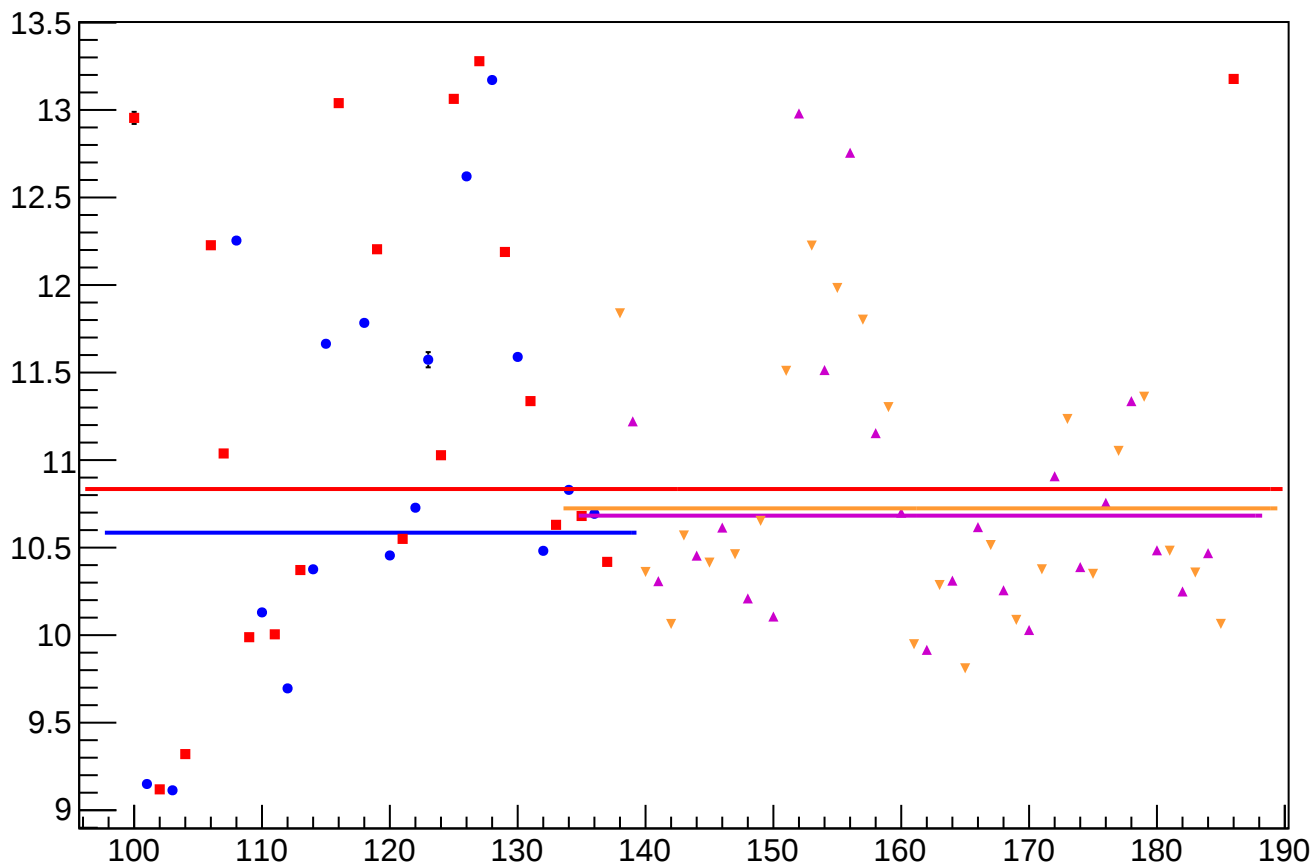
Right: 1.542 ± 2.880 $\chi^2/\text{NDF}: 57.6/36$

In: -4.894 ± 2.195 $\chi^2/\text{NDF}: 50.4/39$

Out: 2.407 ± 2.136 $\chi^2/\text{NDF}: 60.2/44$

All: -1.144 ± 1.531 $\chi^2/\text{NDF}: 116.2/84$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.585 $\pm$ 0.003 χ^2 /NDF: 159813.8/16

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.835 $\pm$ 0.003 χ^2 /NDF: 202889.4/19

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

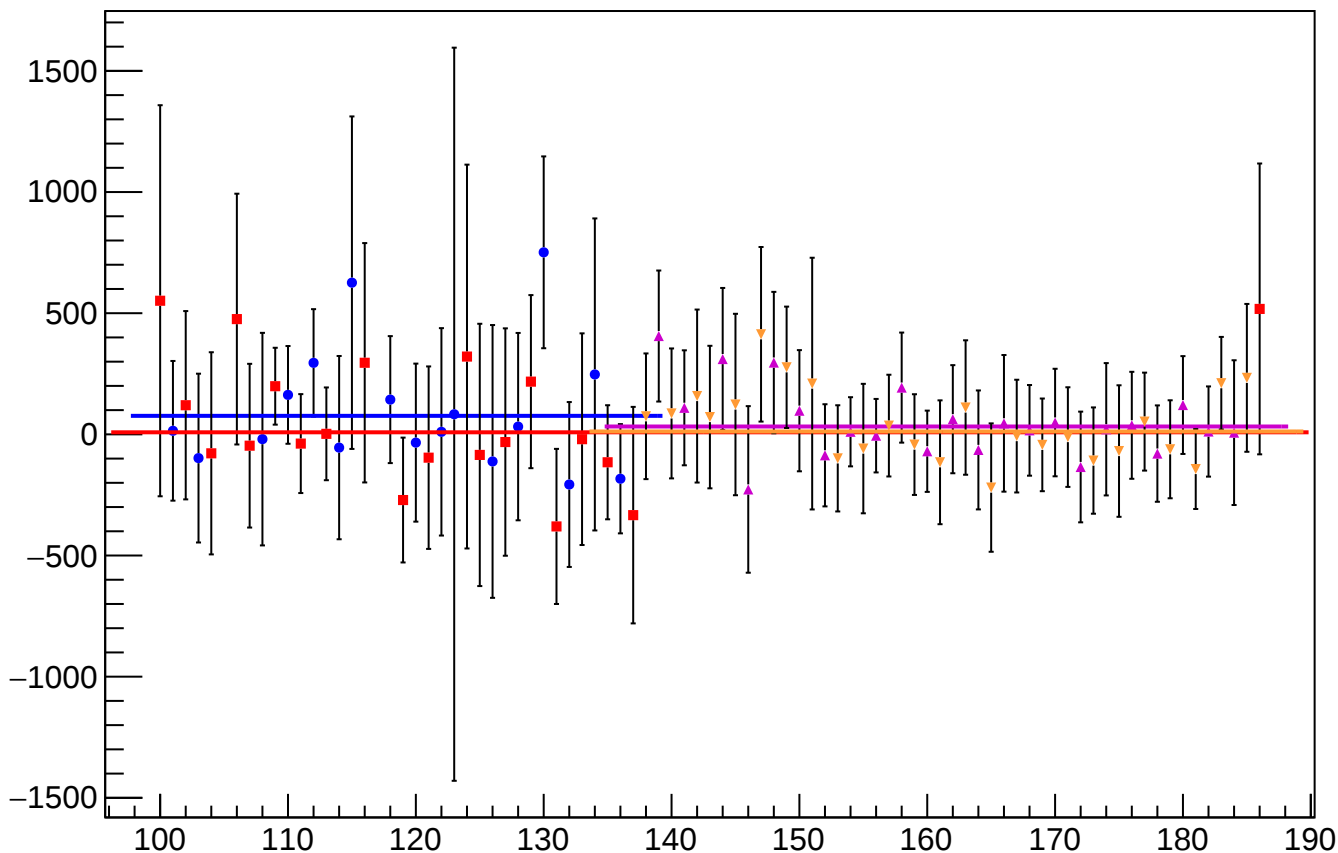
Right: 10.714 $\pm$ 0.002 χ^2 /NDF: 366446.0/36

In: 10.655 $\pm$ 0.002 χ^2 /NDF:308444.0/39

Out: 10.755 $\pm$ 0.002 χ^2 /NDF:336534.7/44

All: 10.707 $\pm$ 0.001 χ^2 /NDF: 647121.9/84

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 76.396 $\pm$ 79.969 χ^2 /NDF: 7.6/16

Left Out: 11.891 $\pm$ 48.022 χ^2 /NDF: 7.6/24

Right Out: 8.456 $\pm$ 70.378 χ^2 /NDF: 8.1/19

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

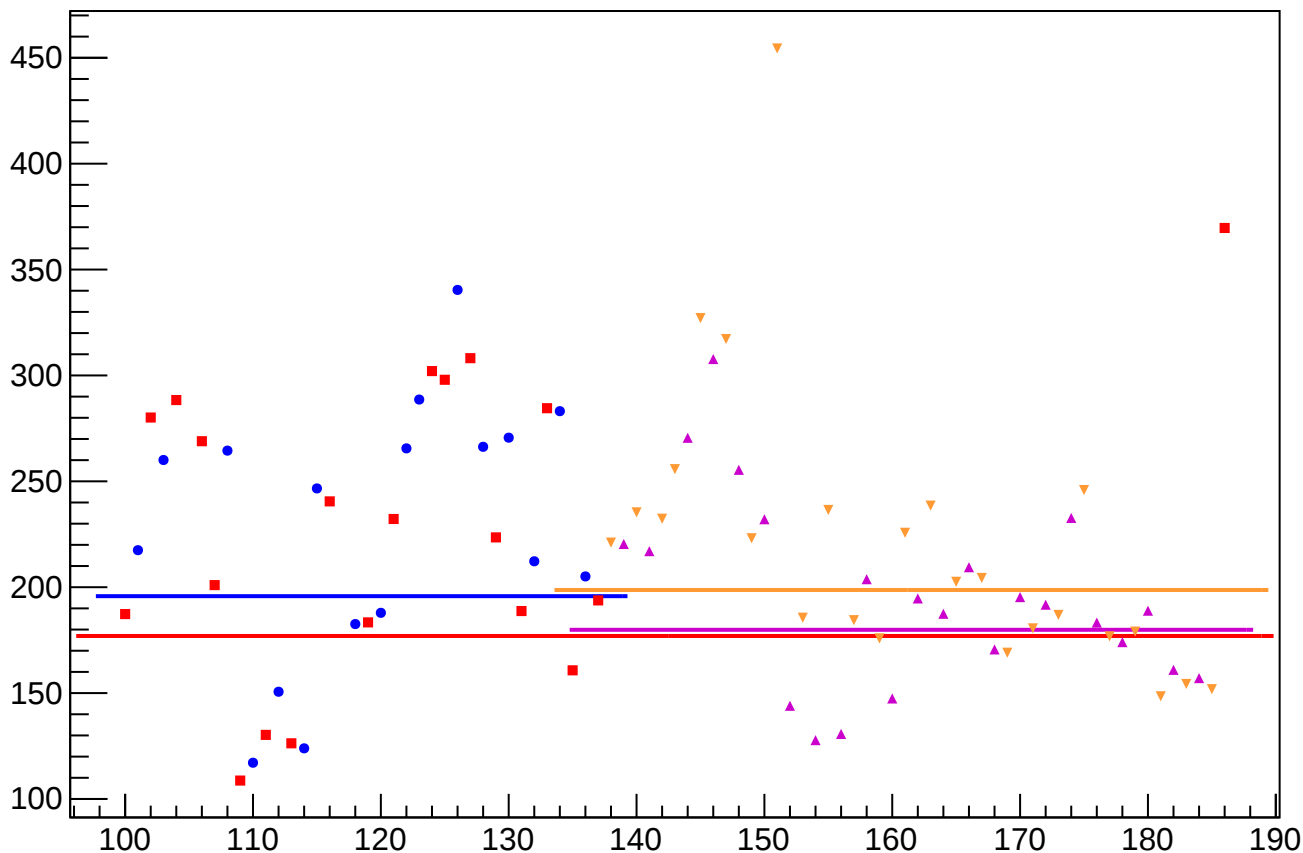
Right: 38.110 $\pm$ 52.832 χ^2 /NDF: 16.1/36

In: 43.046 $\pm$ 39.319 χ^2 /NDF: 14.7/39

Out: 10.800 $\pm$ 39.668 χ^2 /NDF: 15.7/44

All: 27.065 $\pm$ 27.925 χ^2 /NDF: 30.8/84

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.766 $\pm$ 0.057 χ^2 /NDF: 980914.1/16

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 176.972 $\pm$ 0.050 χ^2 /NDF: 1732744.9/19

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

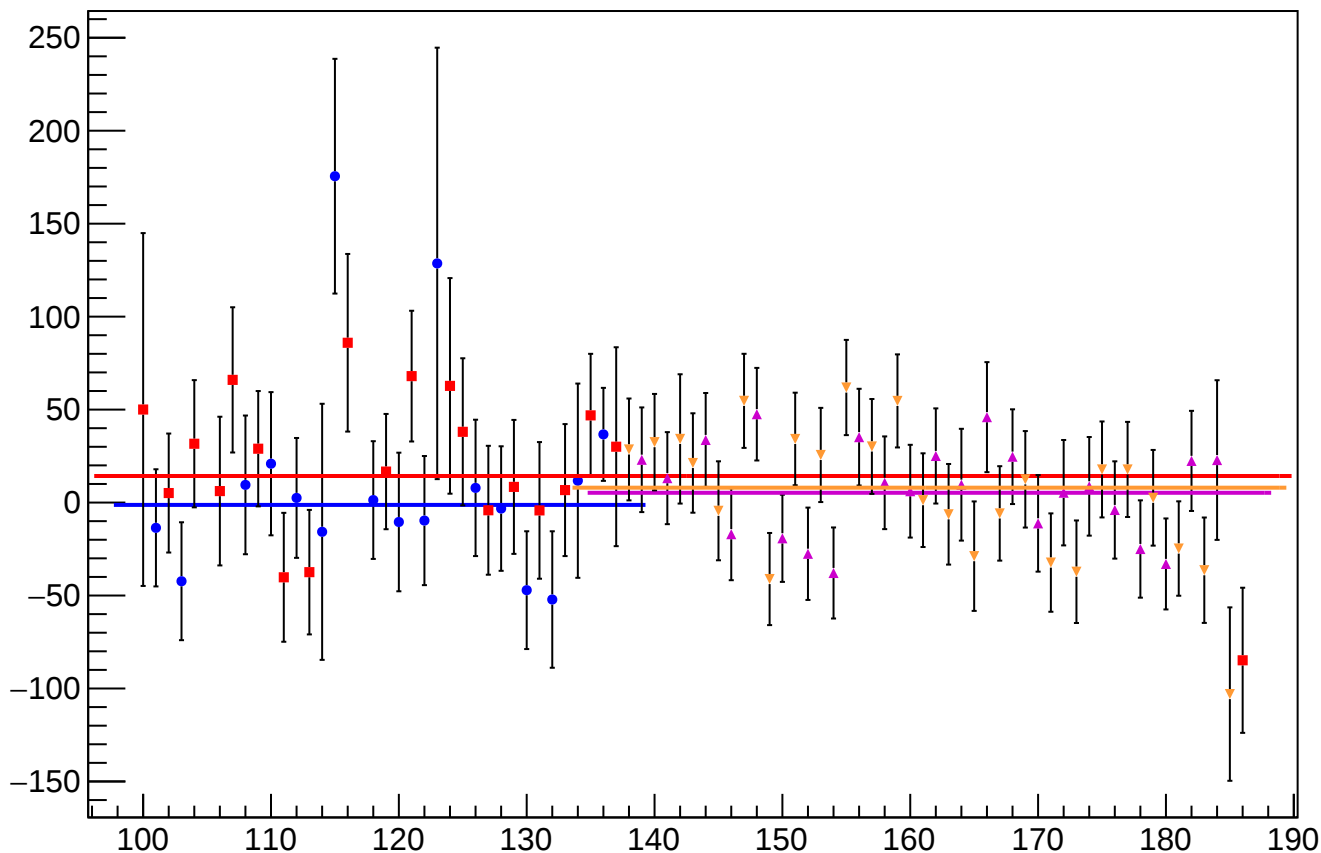
Right: 185.175 $\pm$ 0.037 χ^2 /NDF: 2775904.8/36

In: 183.725 $\pm$ 0.028 χ^2 /NDF:2621344.8/39

Out: 191.794 $\pm$ 0.028 χ^2 /NDF:3622062.2/44

All: 187.724 $\pm$ 0.020 χ^2 /NDF: 6285148.2/84

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.260 ± 8.846 χ^2/NDF : 18.0/16

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 14.289 ± 8.372 χ^2/NDF : 21.1/19

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

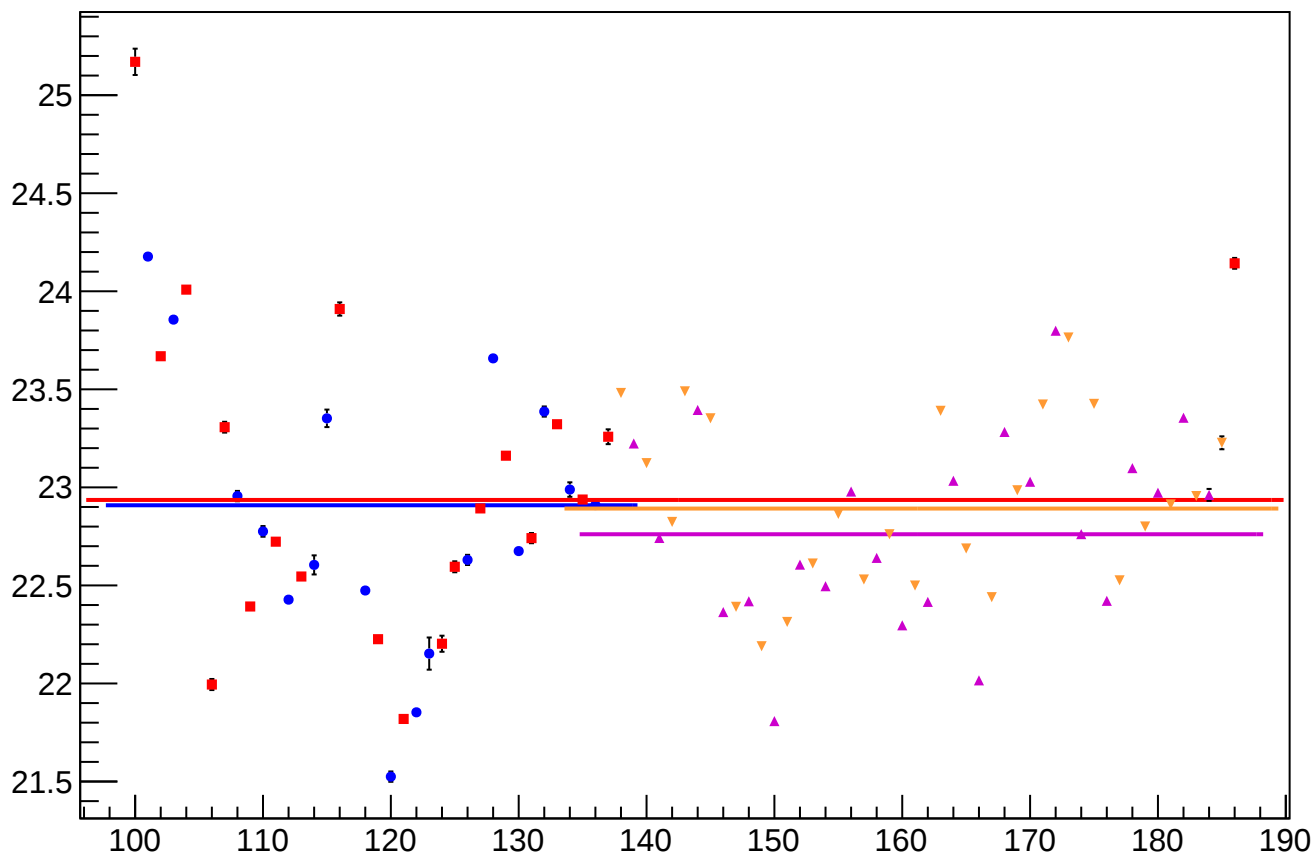
Right: 6.942 ± 6.081 χ^2/NDF : 40.7/36

In: 3.459 ± 4.649 χ^2/NDF : 39.1/39

Out: 9.818 ± 4.499 χ^2/NDF : 59.0/44

All: 6.743 ± 3.233 χ^2/NDF : 99.0/84

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.909 $\pm$ 0.006 χ^2 /NDF: 12270.5/16

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.936 $\pm$ 0.006 χ^2 /NDF: 13098.5/19

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

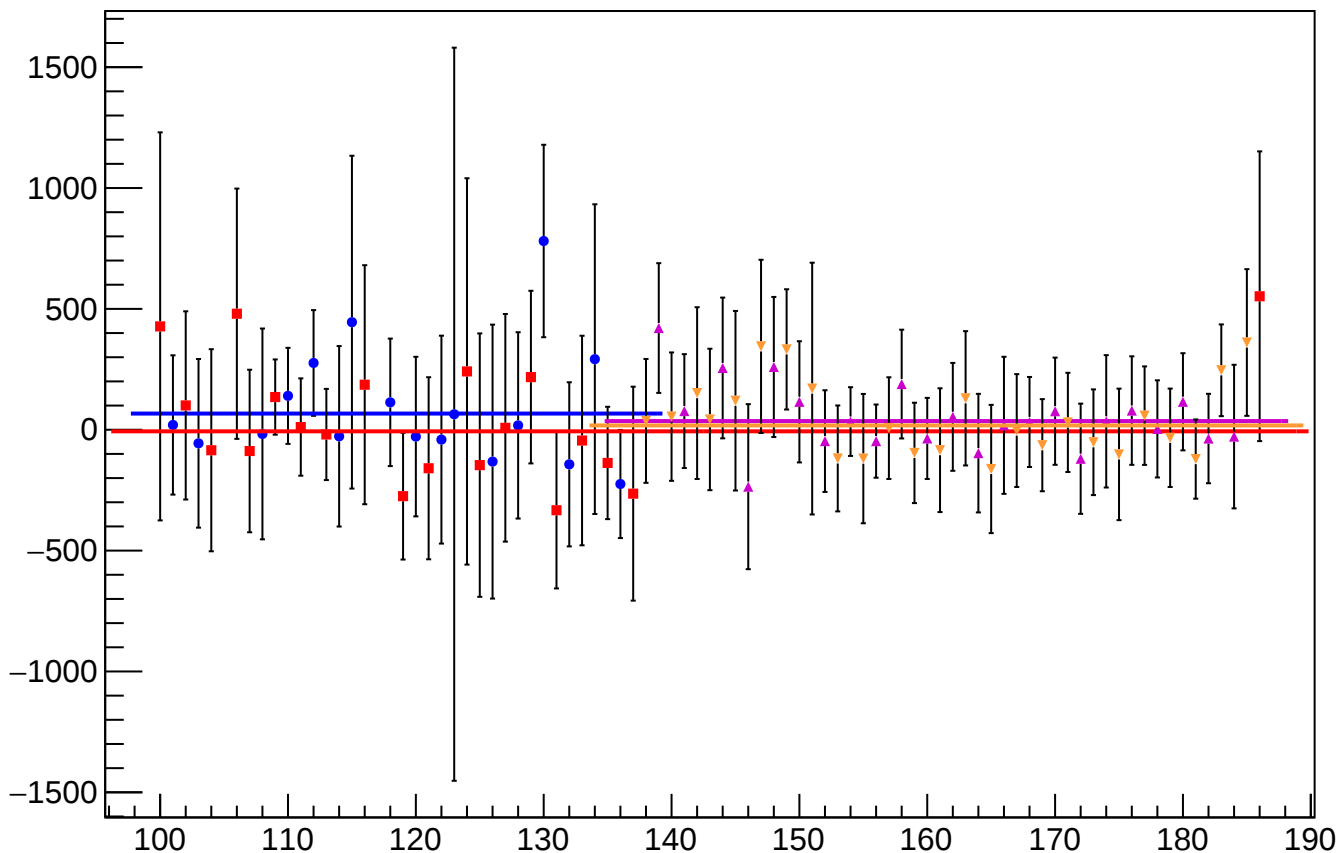
Right: 22.923 $\pm$ 0.004 χ^2 /NDF: 25378.9/36

In: 22.802 $\pm$ 0.003 χ^2 /NDF:27224.2/39

Out: 22.905 $\pm$ 0.003 χ^2 /NDF:26133.2/44

All: 22.855 $\pm$ 0.002 χ^2 /NDF: 53863.0/84

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 66.962 $\pm$ 79.625 χ^2 /NDF: 7.3/16

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -6.550 $\pm$ 69.887 χ^2 /NDF: 6.7/19

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.383 $\pm$ 32.844 χ^2 /NDF: 14.9/47

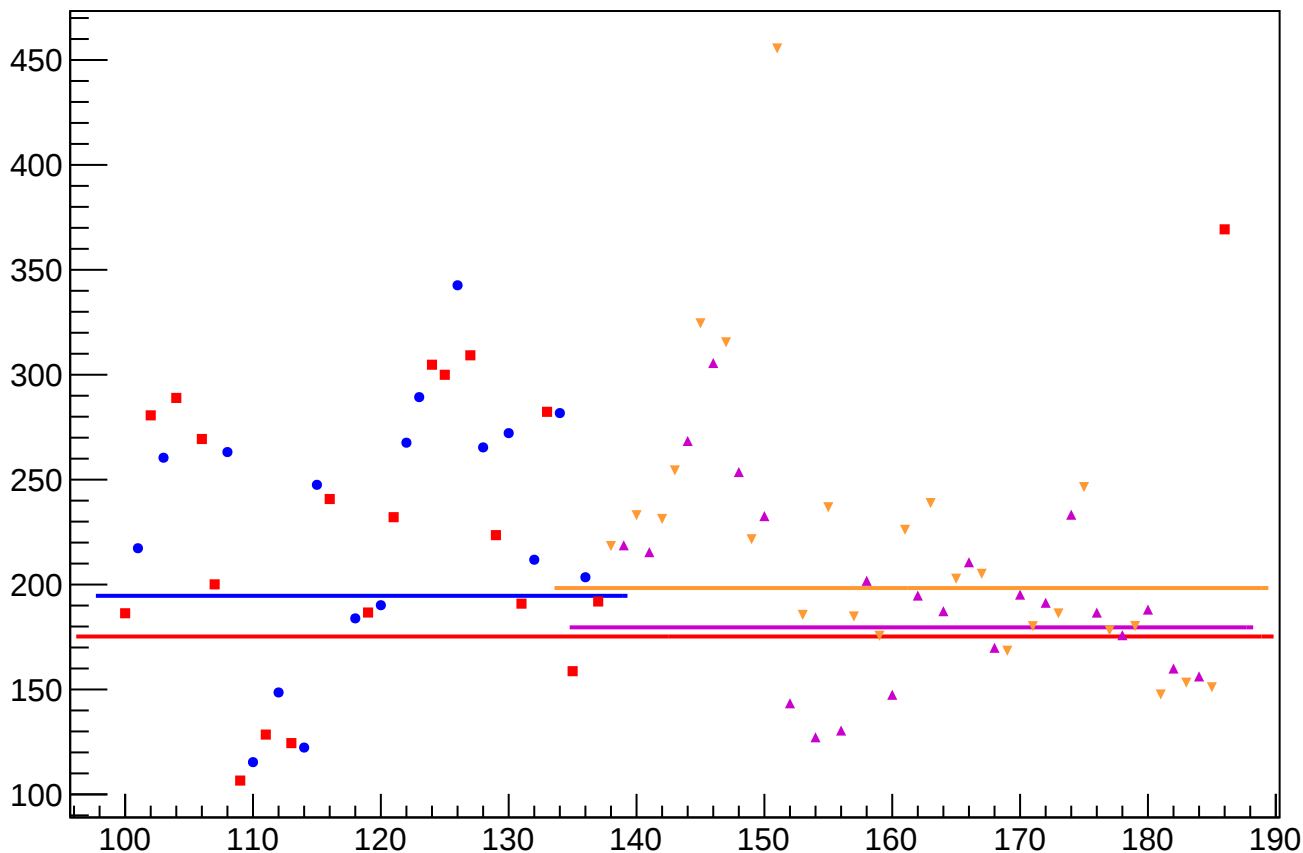
Right: 25.438 $\pm$ 52.525 χ^2 /NDF: 14.5/36

In: 43.426 $\pm$ 39.234 χ^2 /NDF:13.8/39

Out: 9.992 $\pm$ 39.534 χ^2 /NDF:15.3/44

All: 26.836 $\pm$ 27.848 χ^2 /NDF: 29.4/84

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.633+/-0.056 χ^2/NDF : 1020982.9/16

Left Out: 198.344+/-0.034 χ^2/NDF : 1757450.6/24

Right Out: 175.246+/-0.049 χ^2/NDF : 1803778.0/19

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

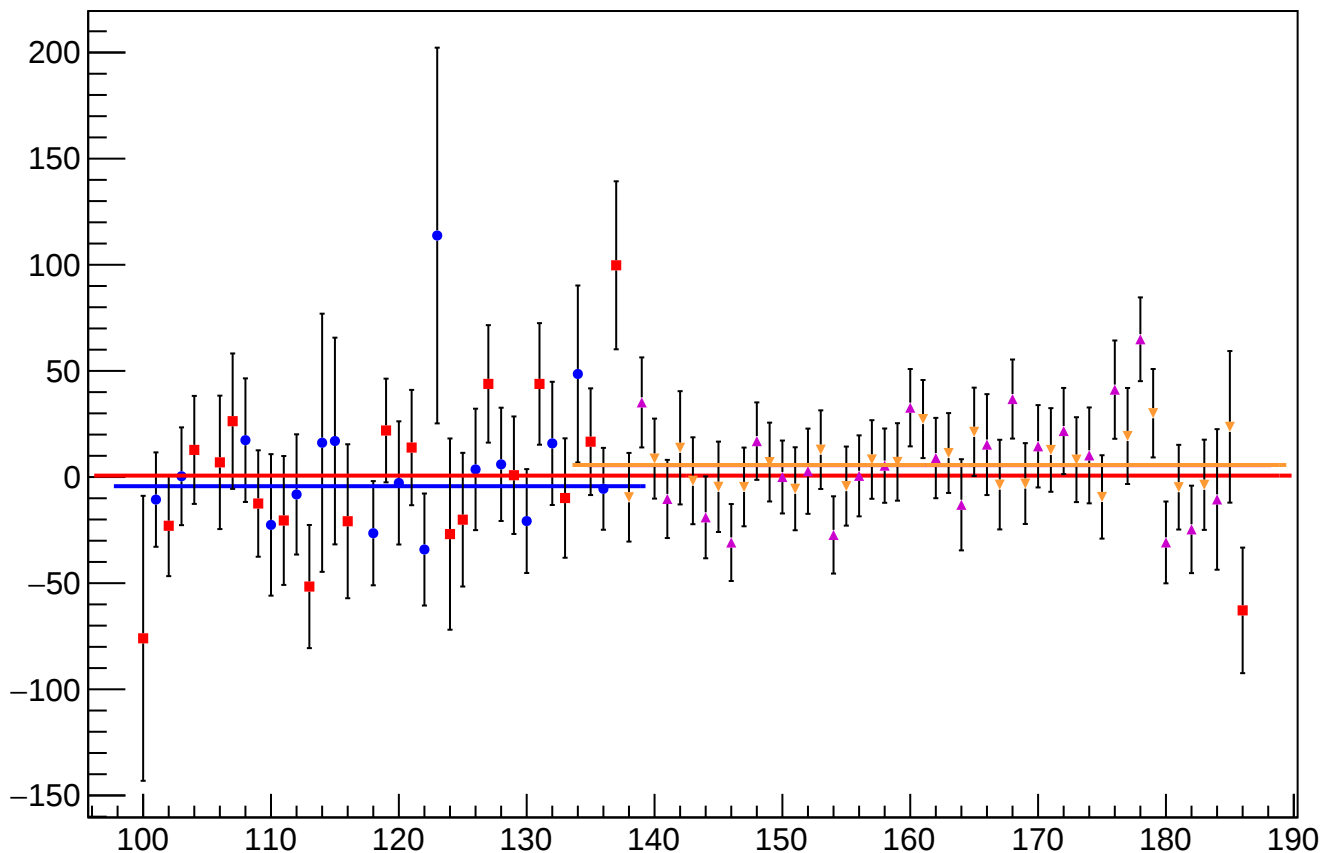
Right: 183.682+/-0.037 χ^2/NDF : 2891736.1/36

In: 183.254+/-0.028 χ^2/NDF : 2650672.4/39

Out: 190.952+/-0.028 χ^2/NDF : 3709789.7/44

All: 187.074+/-0.020 χ^2/NDF : 6398674.3/84

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.314 ± 6.887 χ^2/NDF : 7.9/16

Left Out: 5.680 ± 4.024 χ^2/NDF : 7.7/24

Right Out: 0.673 ± 6.572 χ^2/NDF : 25.5/19

Left In: 5.595 ± 4.121 χ^2/NDF : 36.4/22

Left: 5.639 ± 2.879 χ^2/NDF : 44.1/47

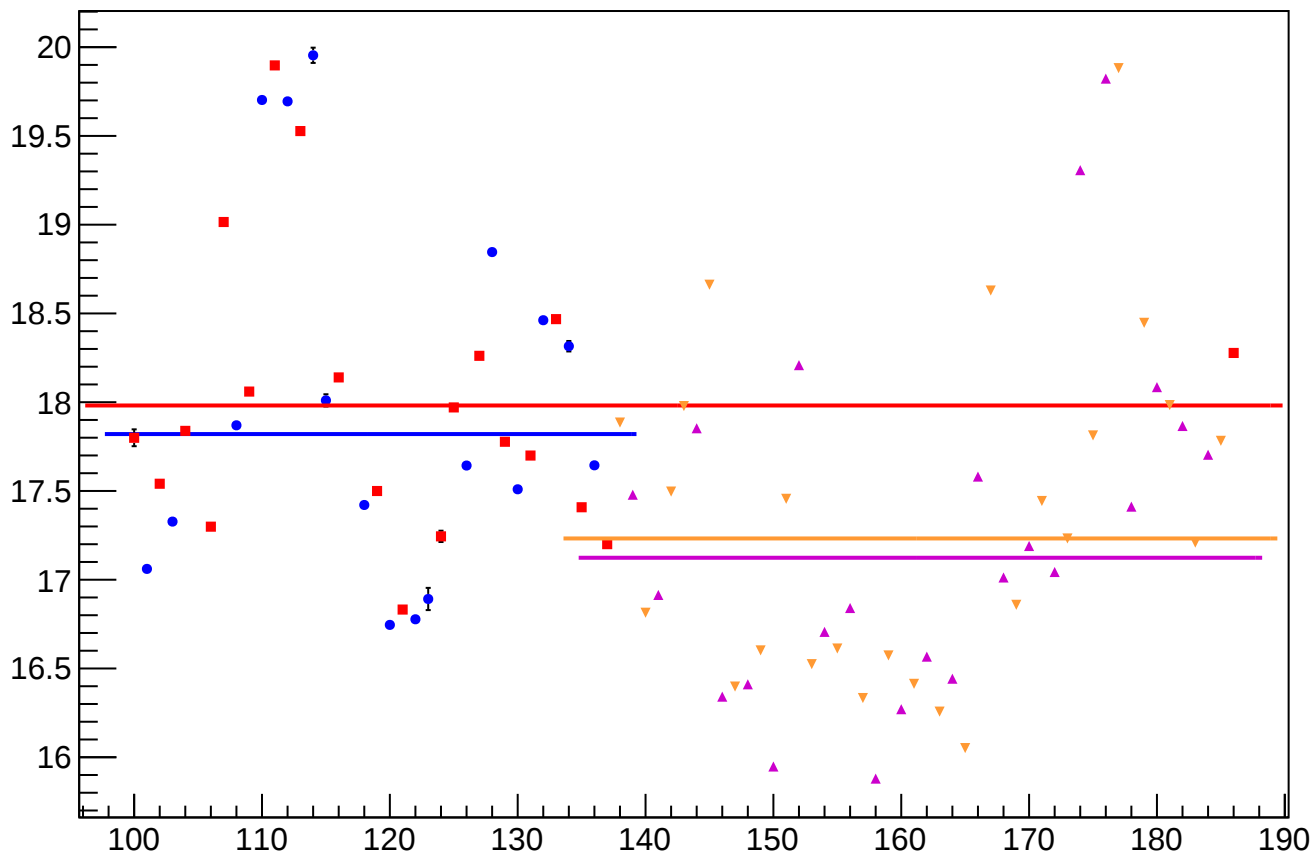
Right: -1.704 ± 4.754 χ^2/NDF : 33.7/36

In: 2.982 ± 3.536 χ^2/NDF : 45.9/39

Out: 4.315 ± 3.431 χ^2/NDF : 33.7/44

All: 3.668 ± 2.463 χ^2/NDF : 79.6/84

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.821 $\pm$ 0.005 χ^2 /NDF: 32283.6/16

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF: 98701.0/24

Right Out: 17.982 $\pm$ 0.005 χ^2 /NDF: 25530.9/19

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

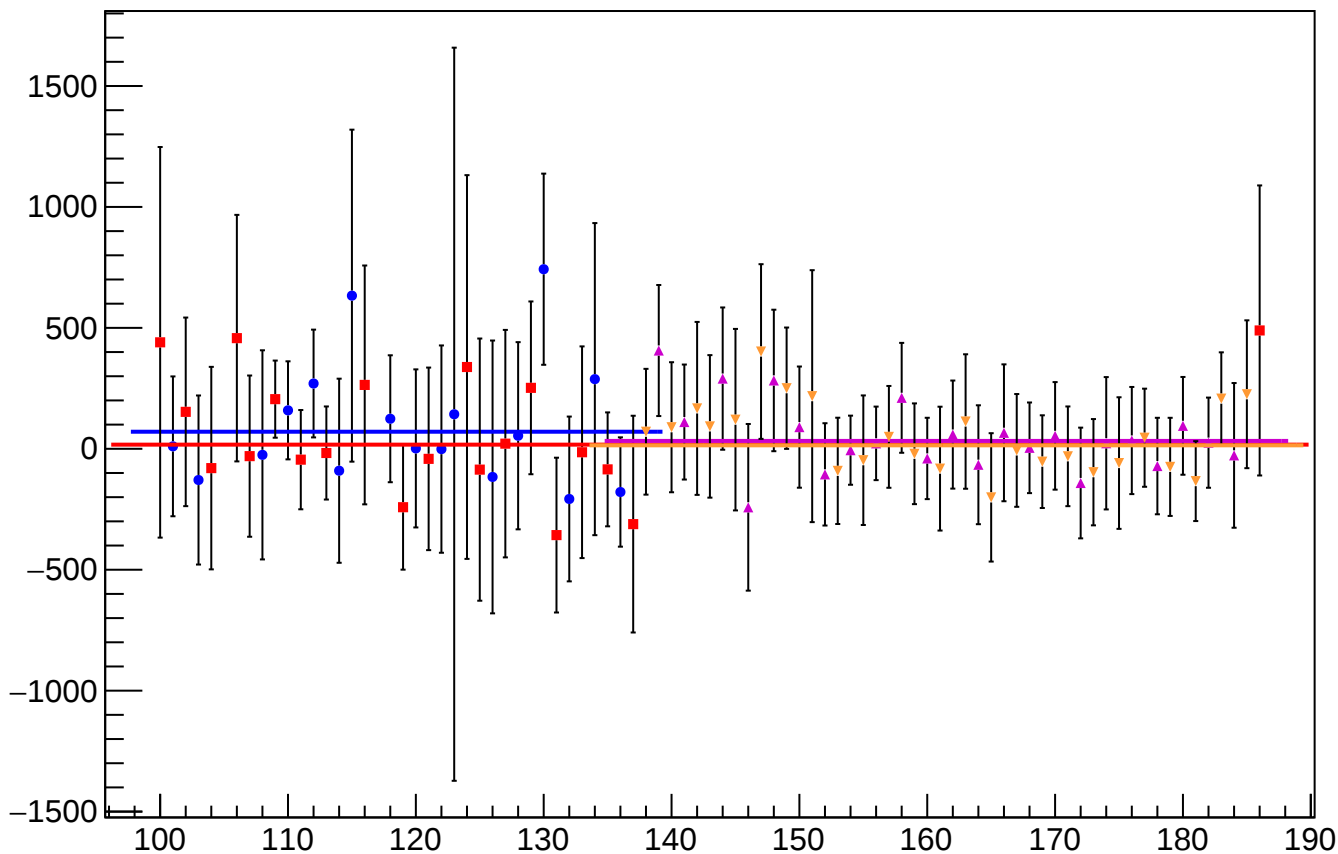
Right: 17.905 $\pm$ 0.003 χ^2 /NDF: 58386.8/36

In: 17.307 $\pm$ 0.003 χ^2 /NDF: 148106.3/39

Out: 17.437 $\pm$ 0.002 χ^2 /NDF: 143132.3/44

All: 17.374 $\pm$ 0.002 χ^2 /NDF: 292613.6/84

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.603 $\pm$ 80.168 χ^2 /NDF: 7.4/16

Left Out: 14.362 $\pm$ 48.130 χ^2 /NDF:6.9/24

Right Out: 17.182 $\pm$ 70.532 χ^2 /NDF: 7.4/19

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

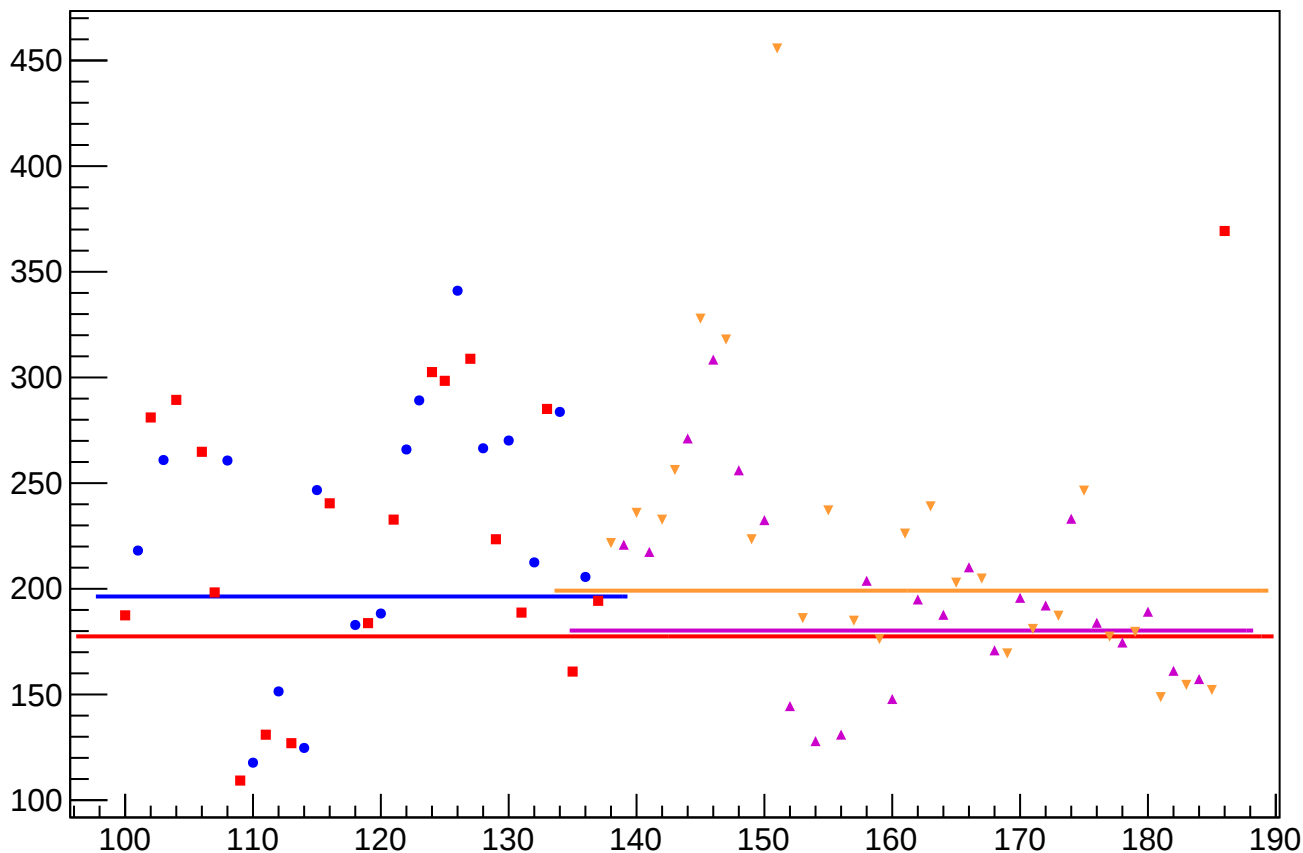
Right: 40.490 $\pm$ 52.955 χ^2 /NDF: 15.0/36

In: 41.759 $\pm$ 39.404 χ^2 /NDF:14.3/39

Out: 15.258 $\pm$ 39.756 χ^2 /NDF:14.3/44

All: 28.626 $\pm$ 27.987 χ^2 /NDF: 28.8/84

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.369 $\pm$ 0.057 χ^2 /NDF: 965962.8/16

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 177.492 $\pm$ 0.050 χ^2 /NDF: 1713633.3/19

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

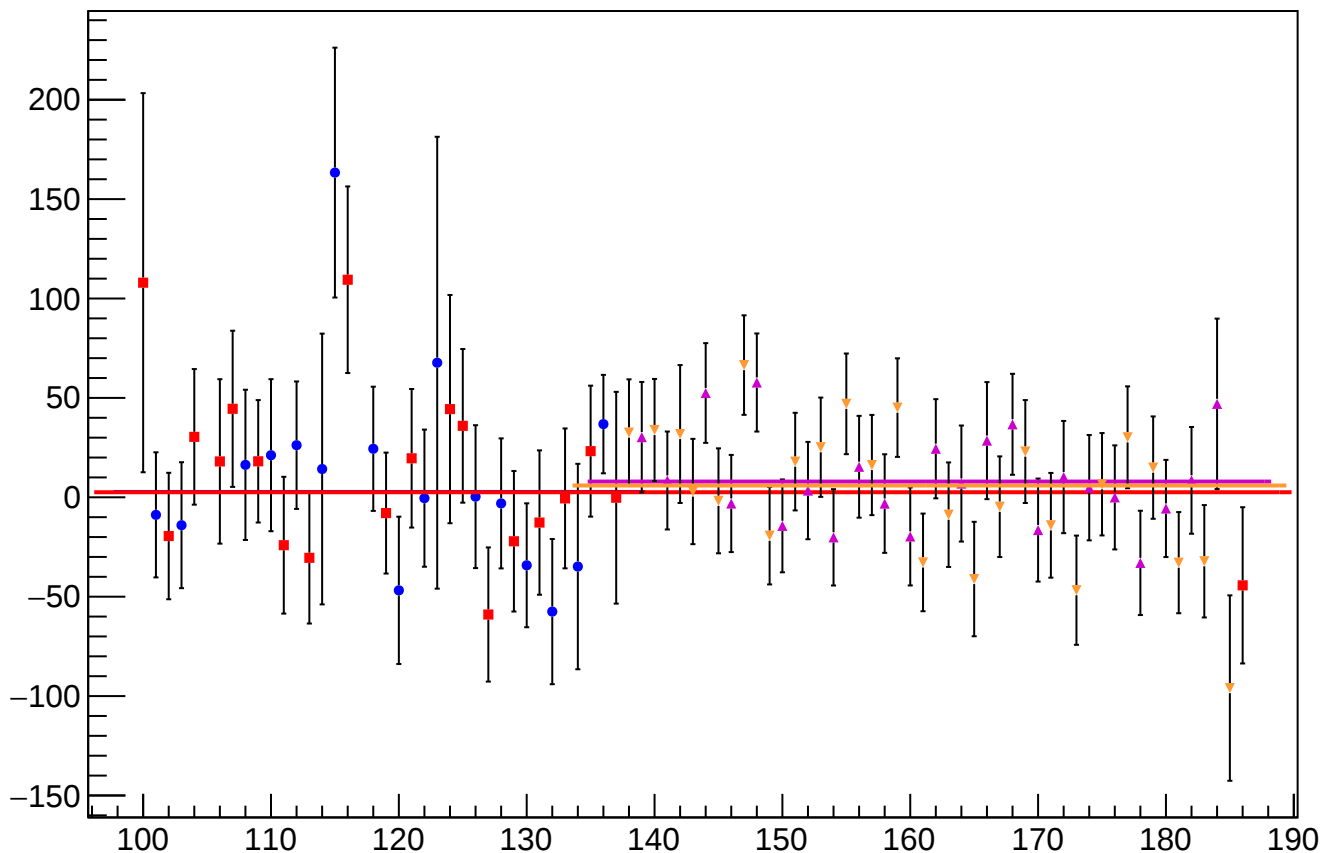
Right: 185.728 $\pm$ 0.037 χ^2 /NDF: 2742104.6/36

In: 184.149 $\pm$ 0.028 χ^2 /NDF:2607788.6/39

Out: 192.259 $\pm$ 0.028 χ^2 /NDF:3602432.1/44

All: 188.168 $\pm$ 0.020 χ^2 /NDF: 6252207.5/84

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.676+/-8.772 χ^2/NDF : 17.1/16

Left Out: 5.937+/-5.285 χ^2/NDF :36.1/24

Right Out: 2.547+/-8.304 χ^2/NDF : 18.1/19

Left In: 7.915+/-5.422 χ^2/NDF :18.7/22

Left: 6.901+/-3.784 χ^2/NDF : 54.9/47

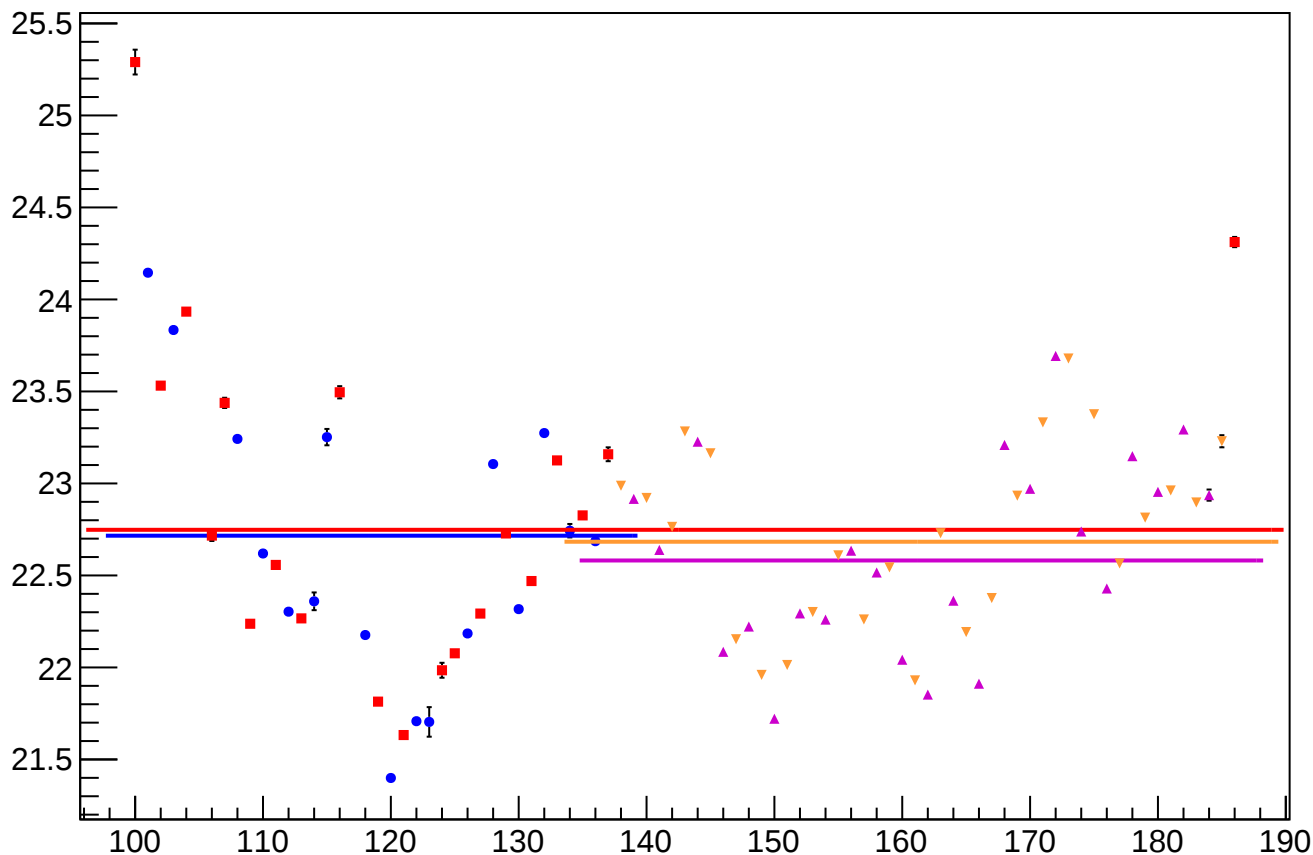
Right: 2.608+/-6.030 χ^2/NDF : 35.2/36

In: 6.467+/-4.612 χ^2/NDF :36.0/39

Out: 4.960+/-4.459 χ^2/NDF :54.4/44

All: 5.688+/-3.206 χ^2/NDF : 90.5/84

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.716 $\pm$ 0.006 χ^2 /NDF: 14058.2/16

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16320.2/24

Right Out: 22.748 $\pm$ 0.006 χ^2 /NDF: 16111.3/19

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

Left: 22.634 $\pm$ 0.003 χ^2 /NDF: 34586.9/47

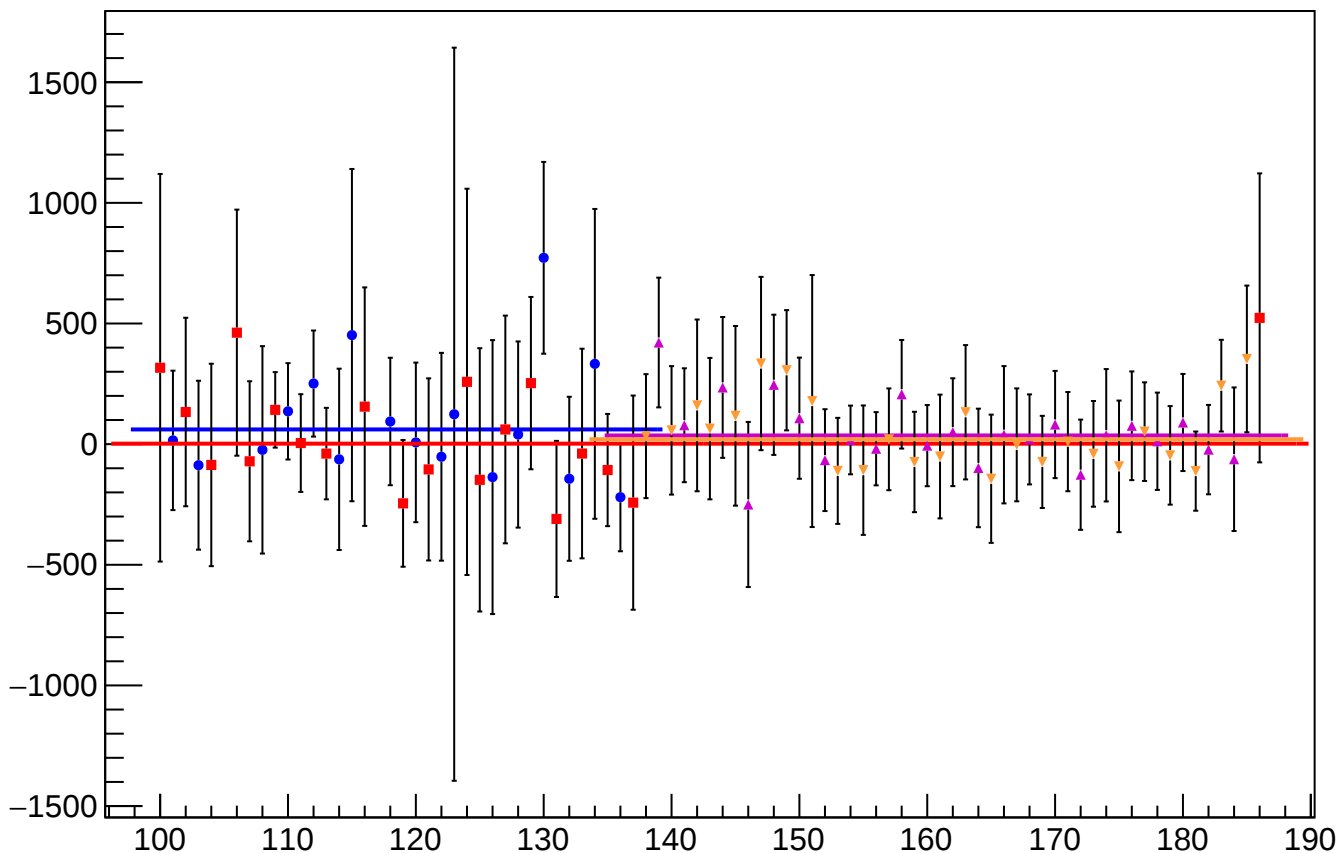
Right: 22.733 $\pm$ 0.004 χ^2 /NDF: 30183.5/36

In: 22.619 $\pm$ 0.003 χ^2 /NDF:32304.0/39

Out: 22.702 $\pm$ 0.003 χ^2 /NDF:32518.3/44

All: 22.662 $\pm$ 0.002 χ^2 /NDF: 65159.9/84

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.977 $\pm$ 79.827 χ^2 /NDF: 7.1/16

Left Out: 20.306 $\pm$ 48.049 χ^2 /NDF: 7.7/24

Right Out: 1.998 $\pm$ 70.045 χ^2 /NDF: 6.0/19

Left In: 35.996 $\pm$ 45.180 χ^2 /NDF: 6.1/22

Left: 28.633 $\pm$ 32.915 χ^2 /NDF: 13.8/47

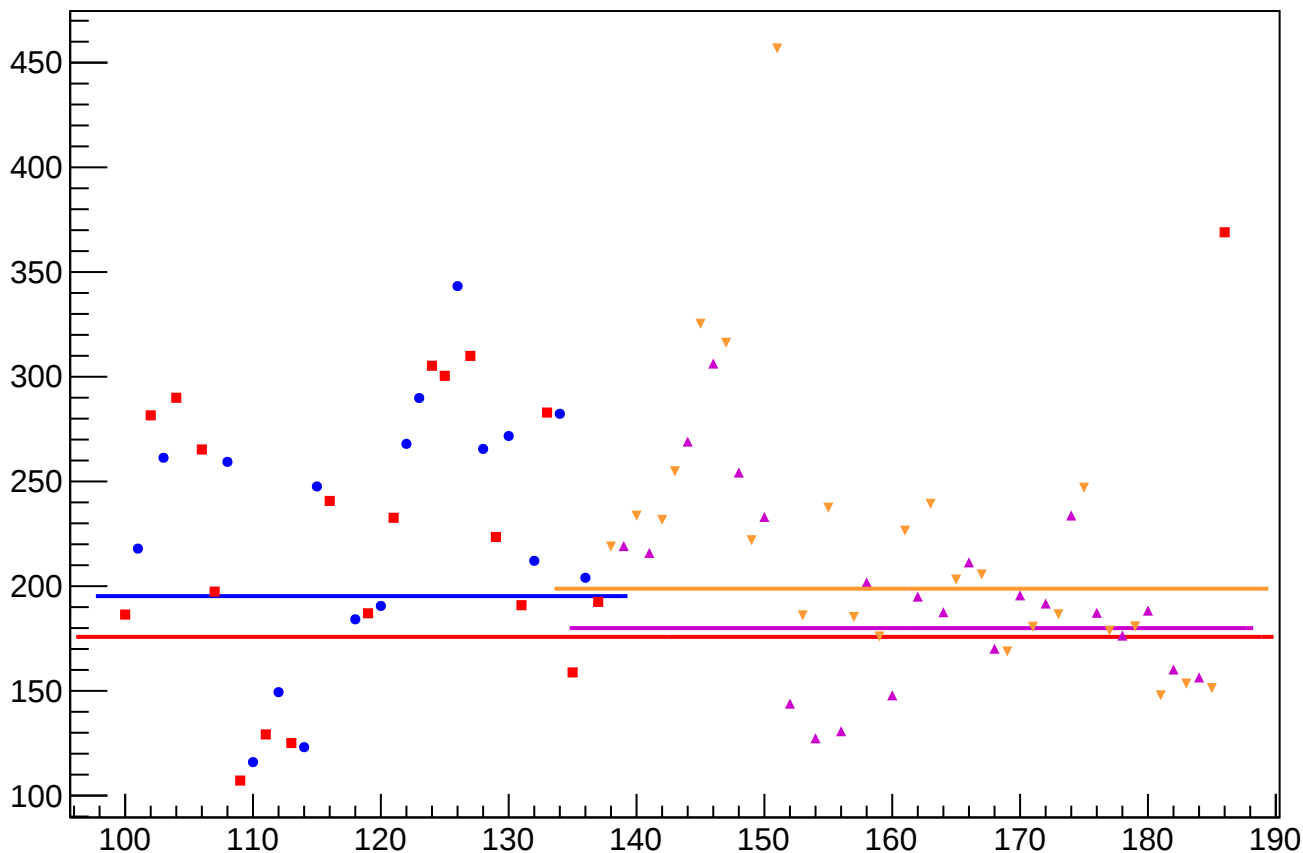
Right: 27.654 $\pm$ 52.650 χ^2 /NDF: 13.4/36

In: 42.056 $\pm$ 39.319 χ^2 /NDF: 13.2/39

Out: 14.448 $\pm$ 39.623 χ^2 /NDF: 13.7/44

All: 28.358 $\pm$ 27.909 χ^2 /NDF: 27.2/84

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.248 $\pm$ 0.056 χ^2 /NDF: 1005332.5/16

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 175.781 $\pm$ 0.050 χ^2 /NDF: 1783748.8/19

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

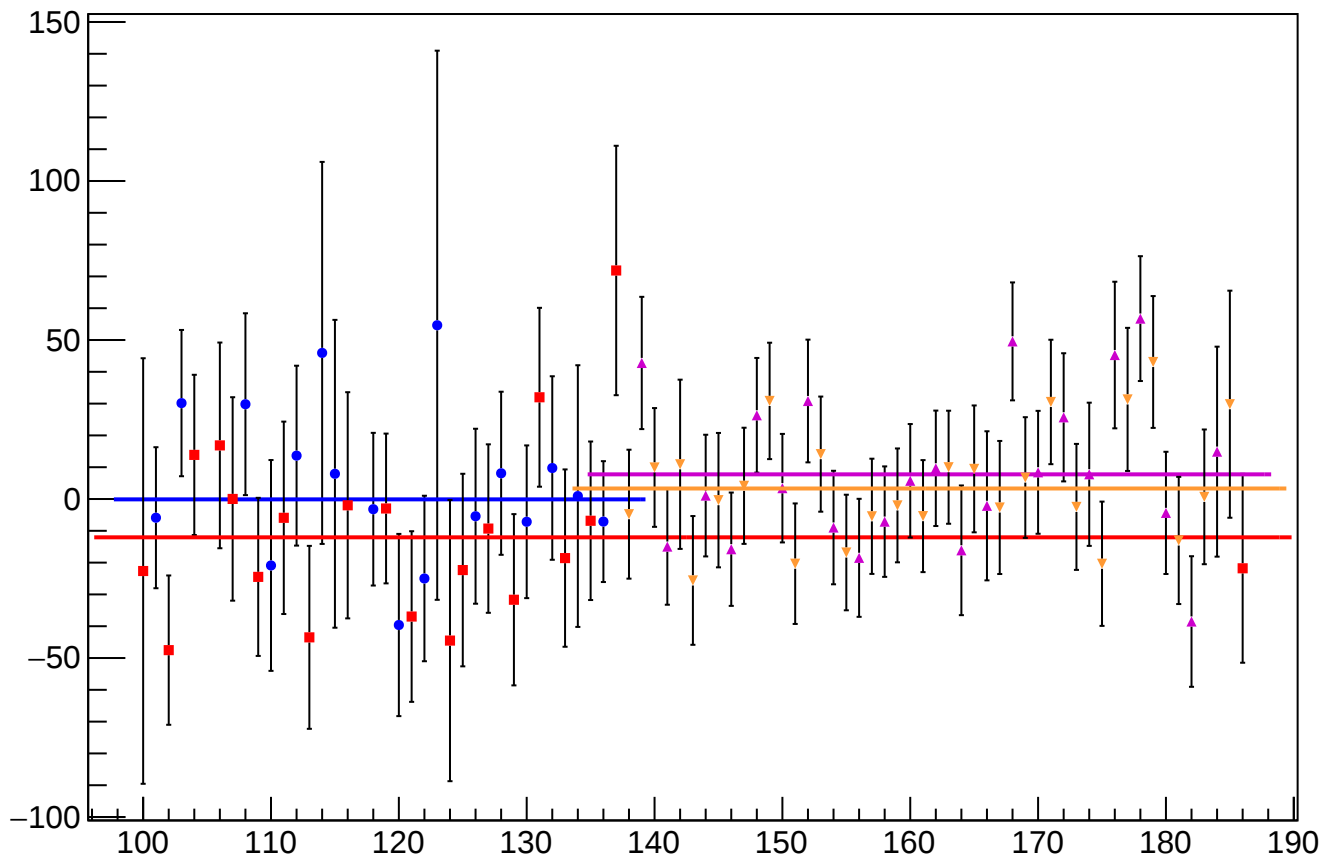
Right: 184.249 $\pm$ 0.037 χ^2 /NDF: 2856282.4/36

In: 183.678 $\pm$ 0.028 χ^2 /NDF:2636690.8/39

Out: 191.424 $\pm$ 0.028 χ^2 /NDF:3688911.7/44

All: 187.521 $\pm$ 0.020 χ^2 /NDF: 6364106.4/84

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.111 ± 6.786 χ^2/NDF : 7.9/16

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -12.047 ± 6.482 χ^2/NDF : 15.3/19

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

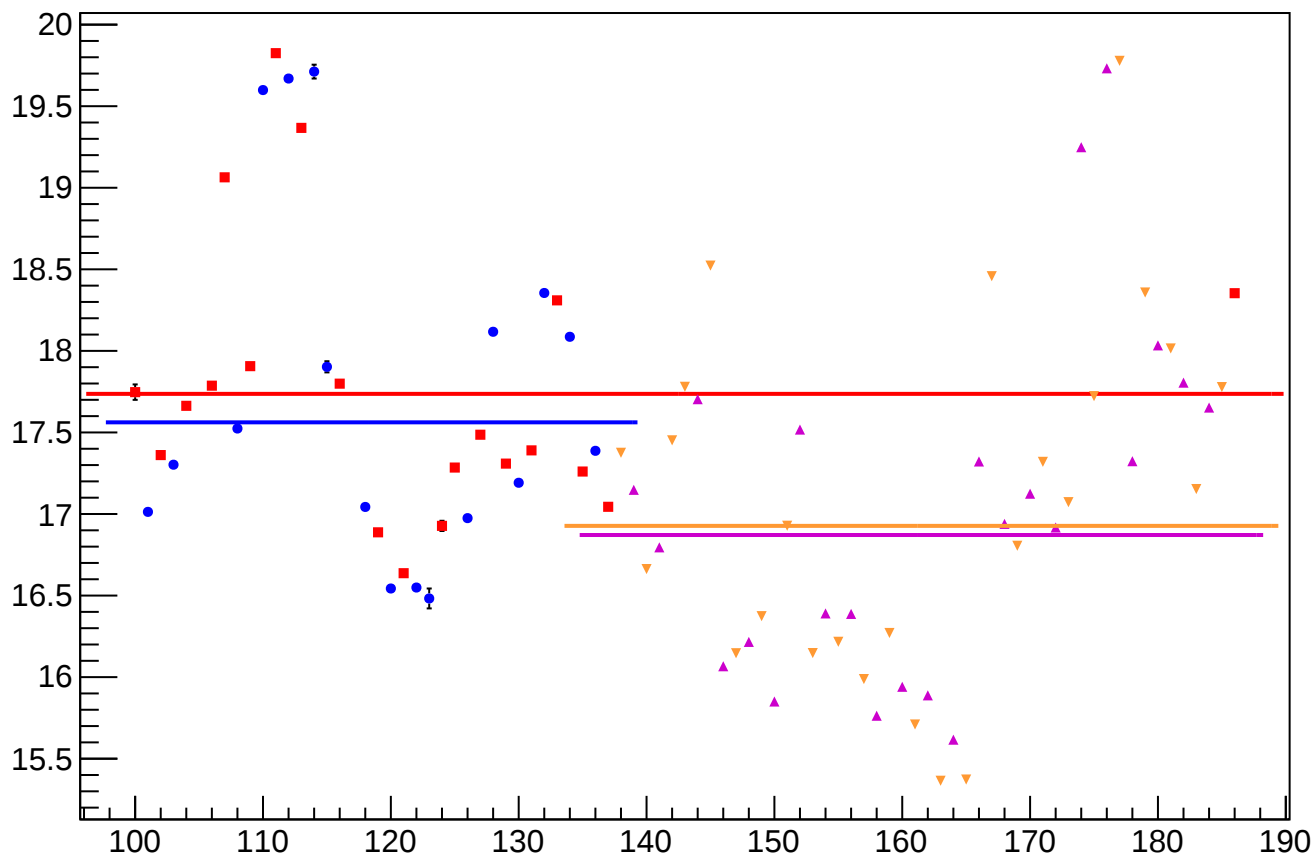
Right: -6.353 ± 4.687 χ^2/NDF : 24.8/36

In: 5.682 ± 3.485 χ^2/NDF : 43.1/39

Out: -0.856 ± 3.375 χ^2/NDF : 38.1/44

All: 2.309 ± 2.424 χ^2/NDF : 83.0/84

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.562 $\pm$ 0.005 χ^2 /NDF: 33937.0/16

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.737 $\pm$ 0.005 χ^2 /NDF: 31158.4/19

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

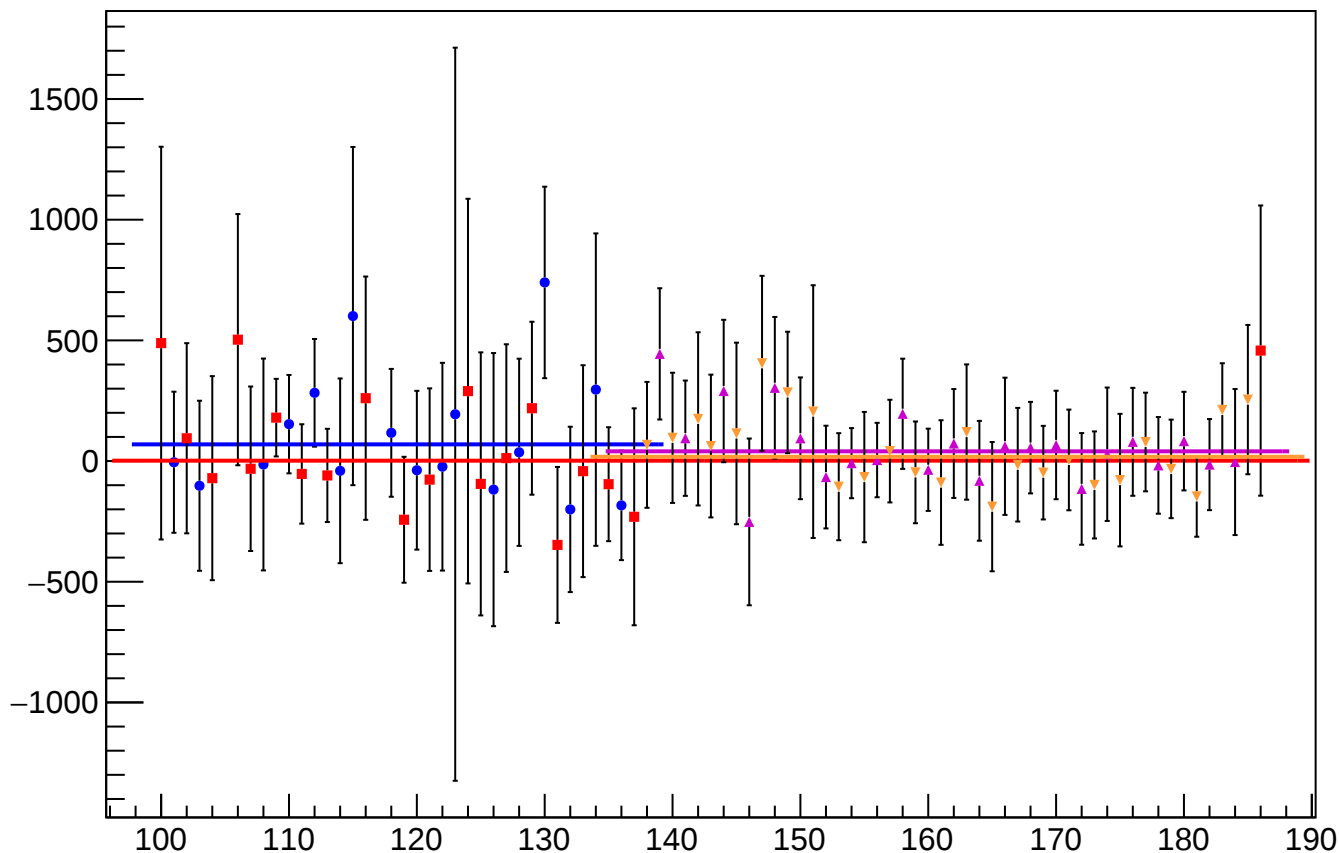
Right: 17.653 $\pm$ 0.003 χ^2 /NDF: 65787.6/36

In: 17.053 $\pm$ 0.002 χ^2 /NDF:167184.9/39

Out: 17.147 $\pm$ 0.002 χ^2 /NDF:192411.0/44

All: 17.102 $\pm$ 0.002 χ^2 /NDF: 360336.3/84

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.218 $\pm$ 80.633 χ^2 /NDF: 7.2/16

Left Out: 17.828 $\pm$ 48.547 χ^2 /NDF: 7.5/24

Right Out: 1.608 $\pm$ 71.020 χ^2 /NDF: 6.7/19

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

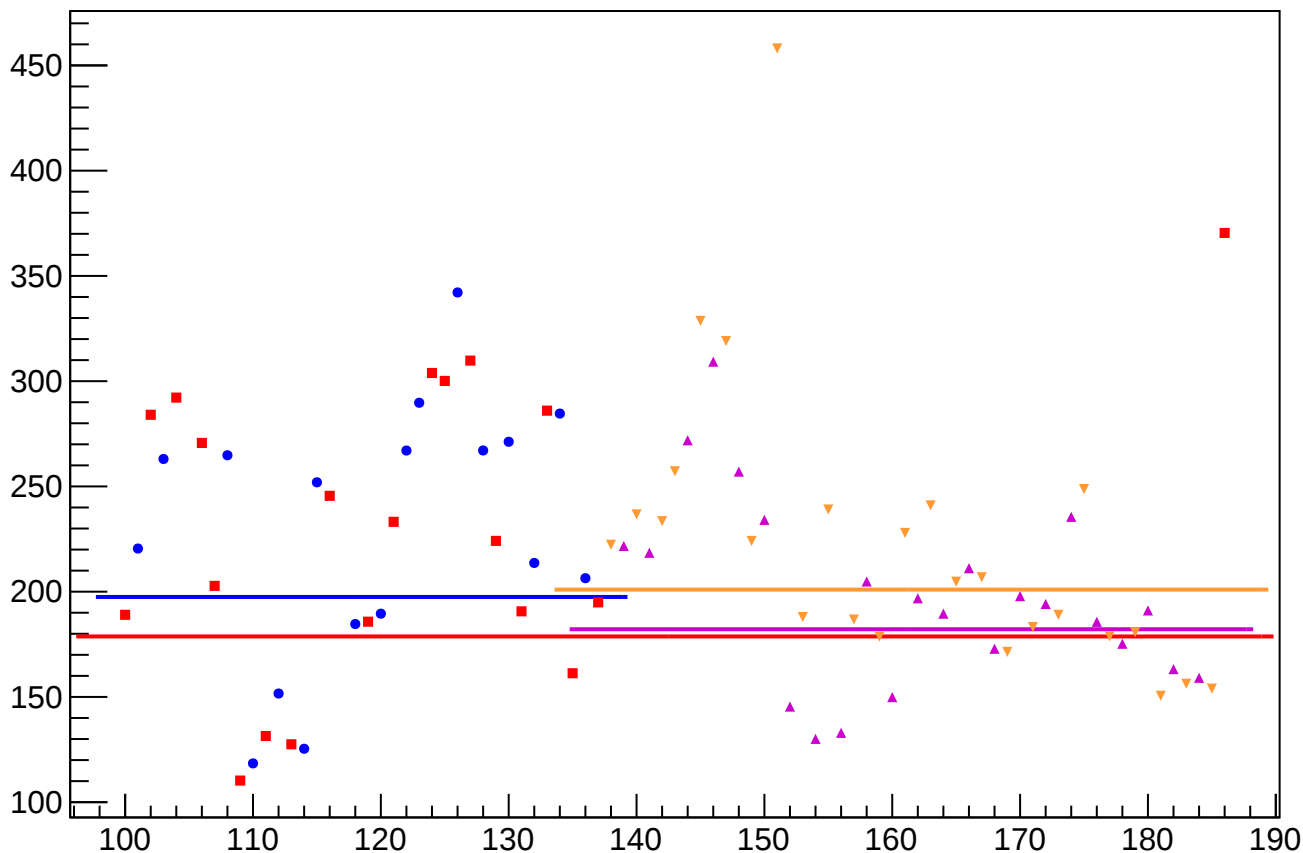
Right: 31.144 $\pm$ 53.295 χ^2 /NDF: 14.3/36

In: 47.370 $\pm$ 39.751 χ^2 /NDF: 14.0/39

Out: 12.663 $\pm$ 40.078 χ^2 /NDF: 14.2/44

All: 30.158 $\pm$ 28.223 χ^2 /NDF: 28.5/84

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.498 $\pm$ 0.057 χ^2 /NDF: 970879.0/16

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 178.729 $\pm$ 0.050 χ^2 /NDF: 1720996.8/19

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

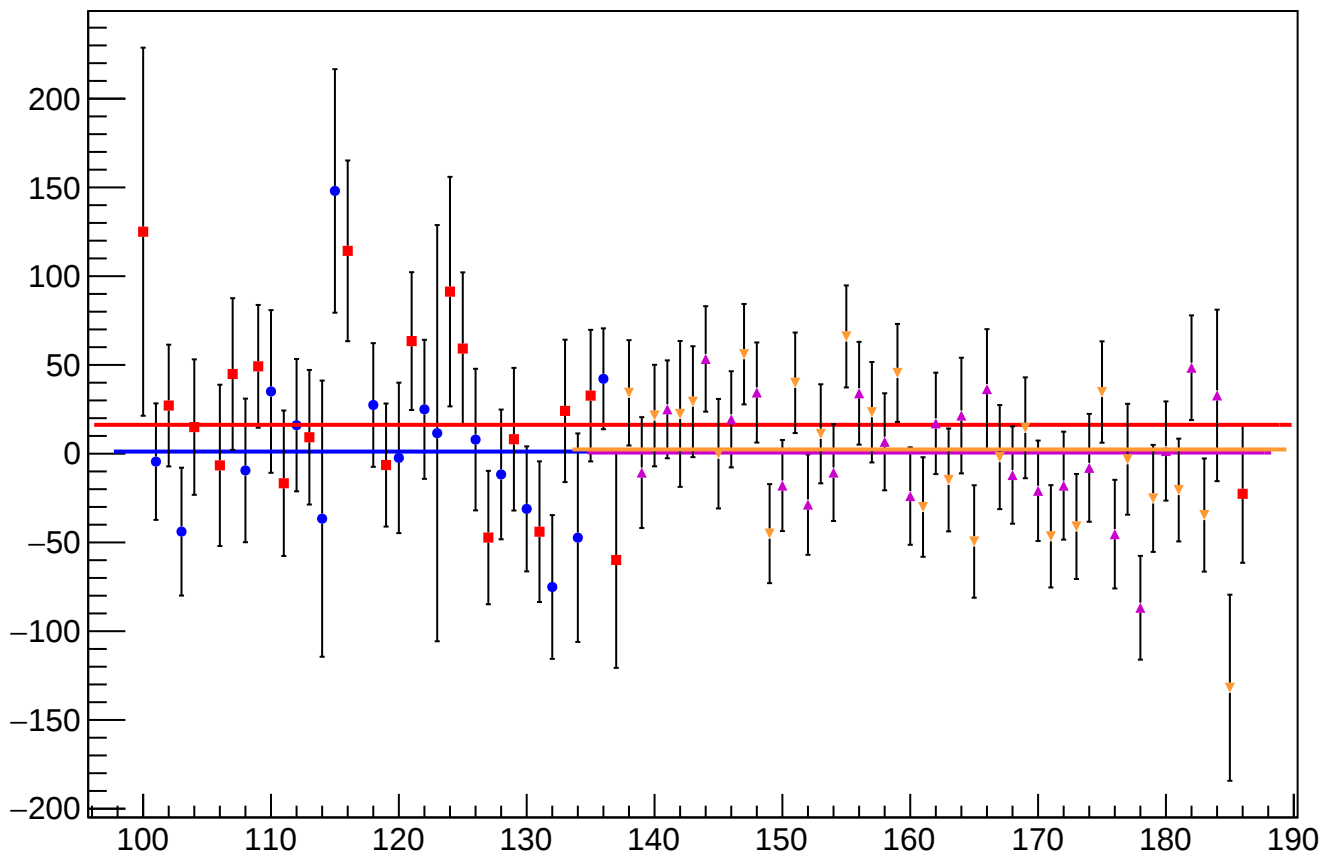
Right: 186.928 $\pm$ 0.038 χ^2 /NDF: 2752895.9/36

In: 185.886 $\pm$ 0.028 χ^2 /NDF:2561590.8/39

Out: 193.898 $\pm$ 0.028 χ^2 /NDF:3582150.0/44

All: 189.859 $\pm$ 0.020 χ^2 /NDF: 6184025.1/84

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.189 ± 9.848 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 16.252 ± 9.244 $\chi^2/\text{NDF}: 19.5/19$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

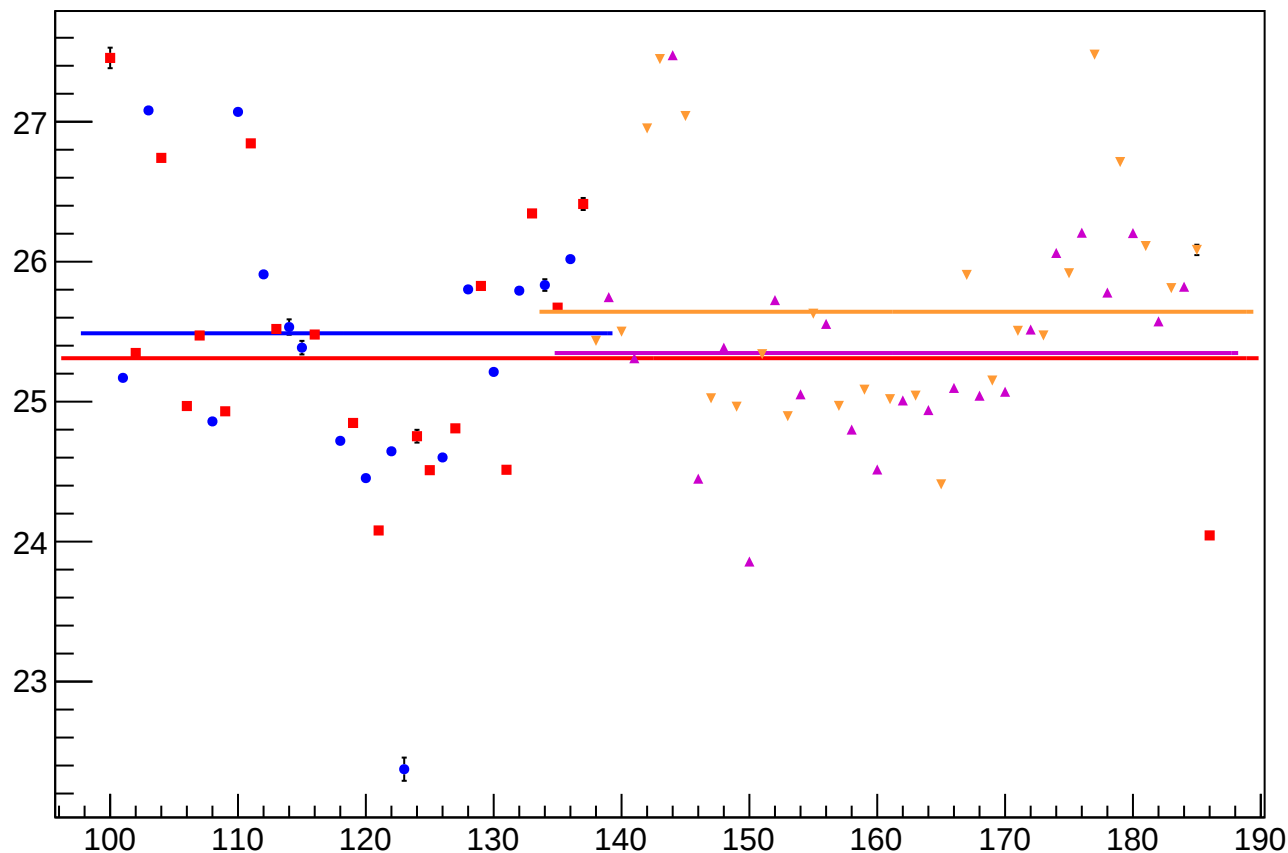
Right: 9.196 ± 6.740 $\chi^2/\text{NDF}: 36.2/36$

In: 0.793 ± 5.180 $\chi^2/\text{NDF}: 42.8/39$

Out: 6.479 ± 5.021 $\chi^2/\text{NDF}: 60.2/44$

All: 3.725 ± 3.605 $\chi^2/\text{NDF}: 103.5/84$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.488 $\pm$ 0.007 χ^2 /NDF: 13867.7/16

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 25.310 $\pm$ 0.007 χ^2 /NDF: 15949.1/19

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

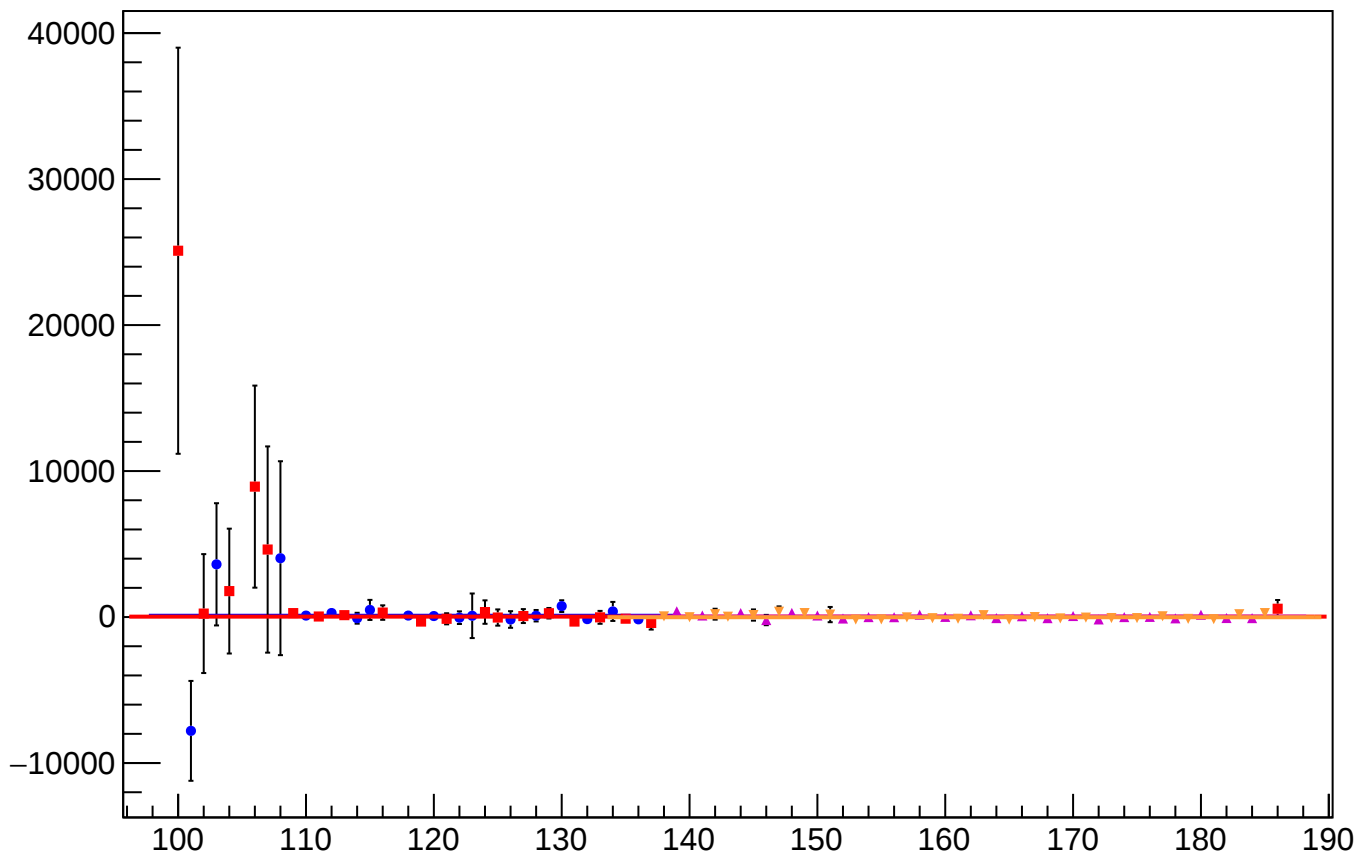
Right: 25.394 $\pm$ 0.005 χ^2 /NDF: 30164.3/36

In: 25.386 $\pm$ 0.004 χ^2 /NDF:43553.7/39

Out: 25.544 $\pm$ 0.004 χ^2 /NDF:52569.3/44

All: 25.468 $\pm$ 0.003 χ^2 /NDF: 97081.6/84

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.231+/-87.920 χ^2/NDF : 12.5/16

Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24

Right Out: 28.738+/-80.194 χ^2/NDF : 12.8/19

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47

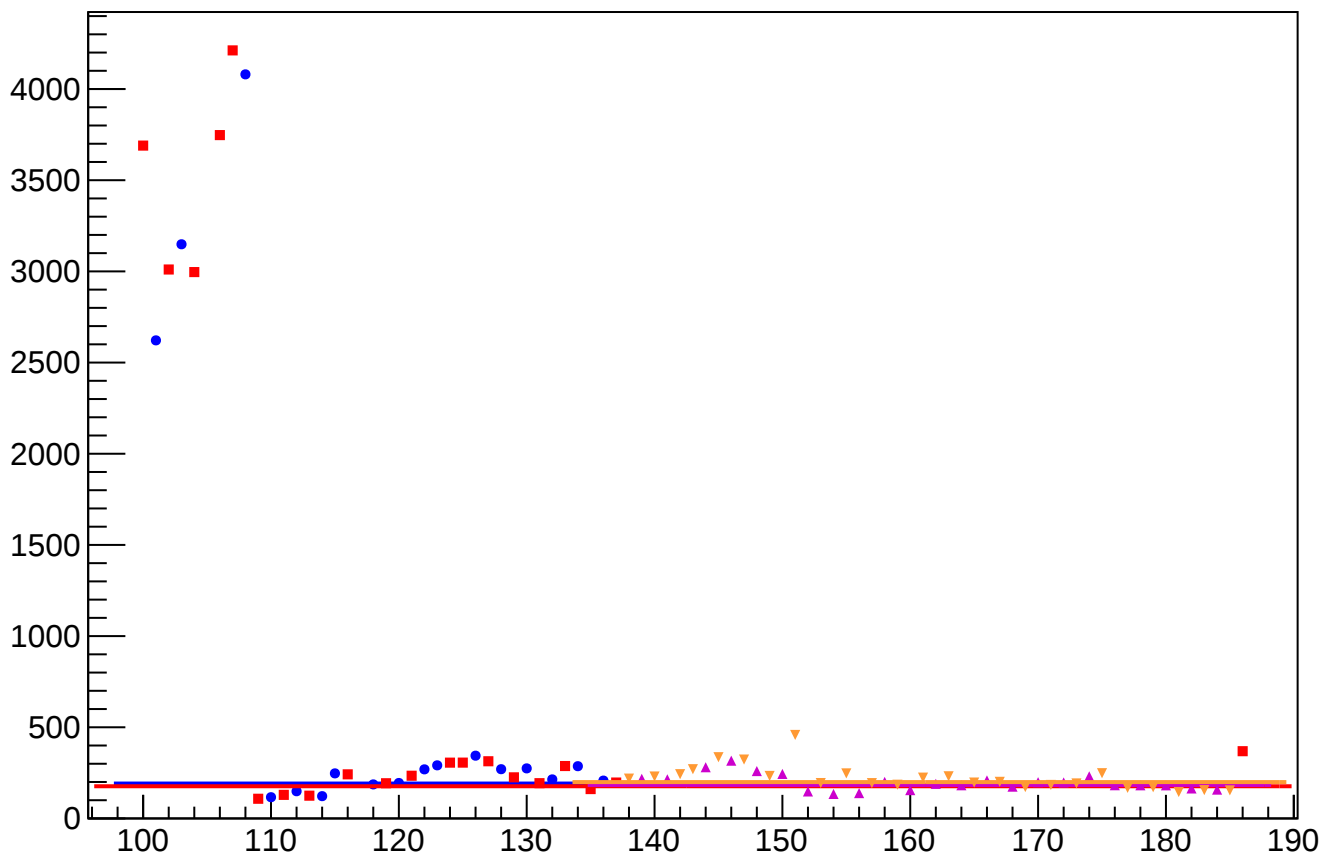
Right: 56.210+/-59.249 χ^2/NDF : 25.5/36

In: 40.450+/-40.757 χ^2/NDF : 20.1/39

Out: -0.751+/-41.352 χ^2/NDF : 21.0/44

All: 20.148+/-29.028 χ^2/NDF : 41.6/84

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.422+/-0.062 χ^2/NDF : 3573556.6/16

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 176.580+/-0.057 χ^2/NDF : 4411445.5/19

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

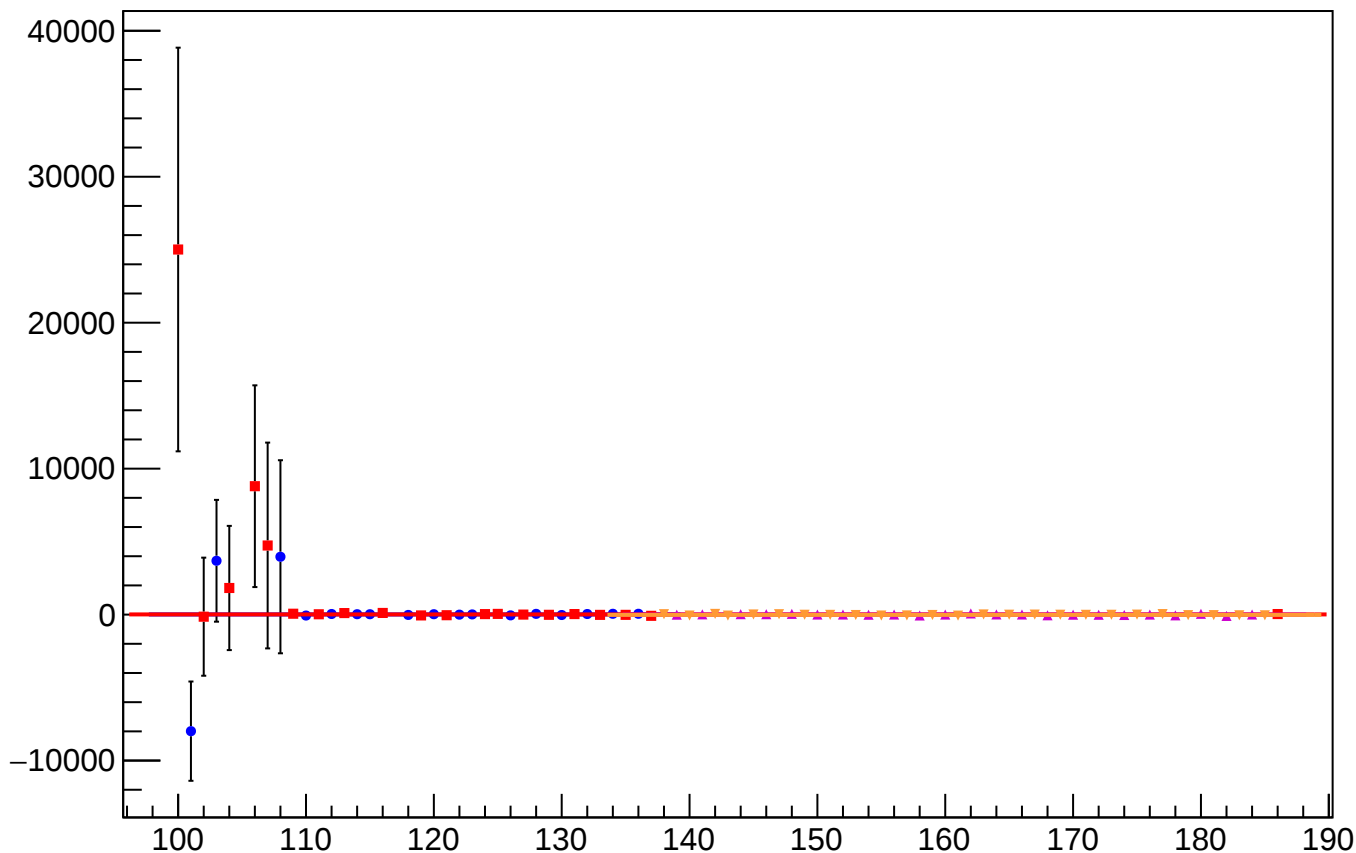
Right: 183.321+/-0.042 χ^2/NDF : 8016115.4/36

In: 185.442+/-0.029 χ^2/NDF : 4998213.0/39

Out: 193.360+/-0.029 χ^2/NDF : 6408579.1/44

All: 189.344+/-0.021 χ^2/NDF : 11443989.7/84

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.464+/-12.227 χ^2/NDF : 18.3/16

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 13.271+/-11.938 χ^2/NDF : 24.1/19

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

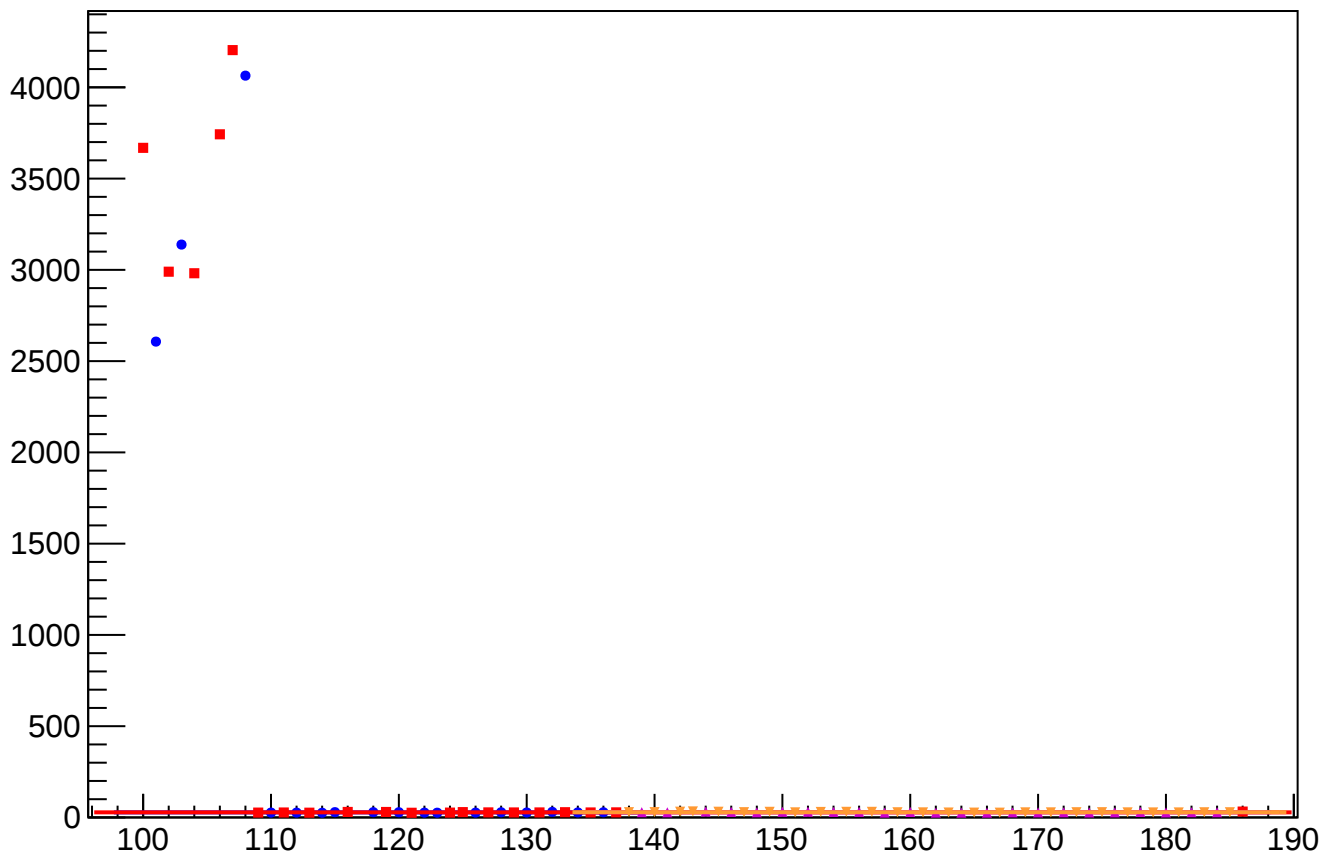
Right: 12.389+/-8.542 χ^2/NDF : 42.4/36

In: 3.735+/-6.014 χ^2/NDF : 50.8/39

Out: -10.593+/-5.845 χ^2/NDF : 51.1/44

All: -3.634+/-4.192 χ^2/NDF : 104.9/84

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.858+/-0.009 χ^2/NDF : 3026949.6/16

Left Out: 28.694+/-0.005 χ^2/NDF : 110466.9/24

Right Out: 27.950+/-0.008 χ^2/NDF : 3491010.9/19

Left In: 28.677+/-0.005 χ^2/NDF : 123814.4/22

Left: 28.685+/-0.003 χ^2/NDF : 234287.5/47

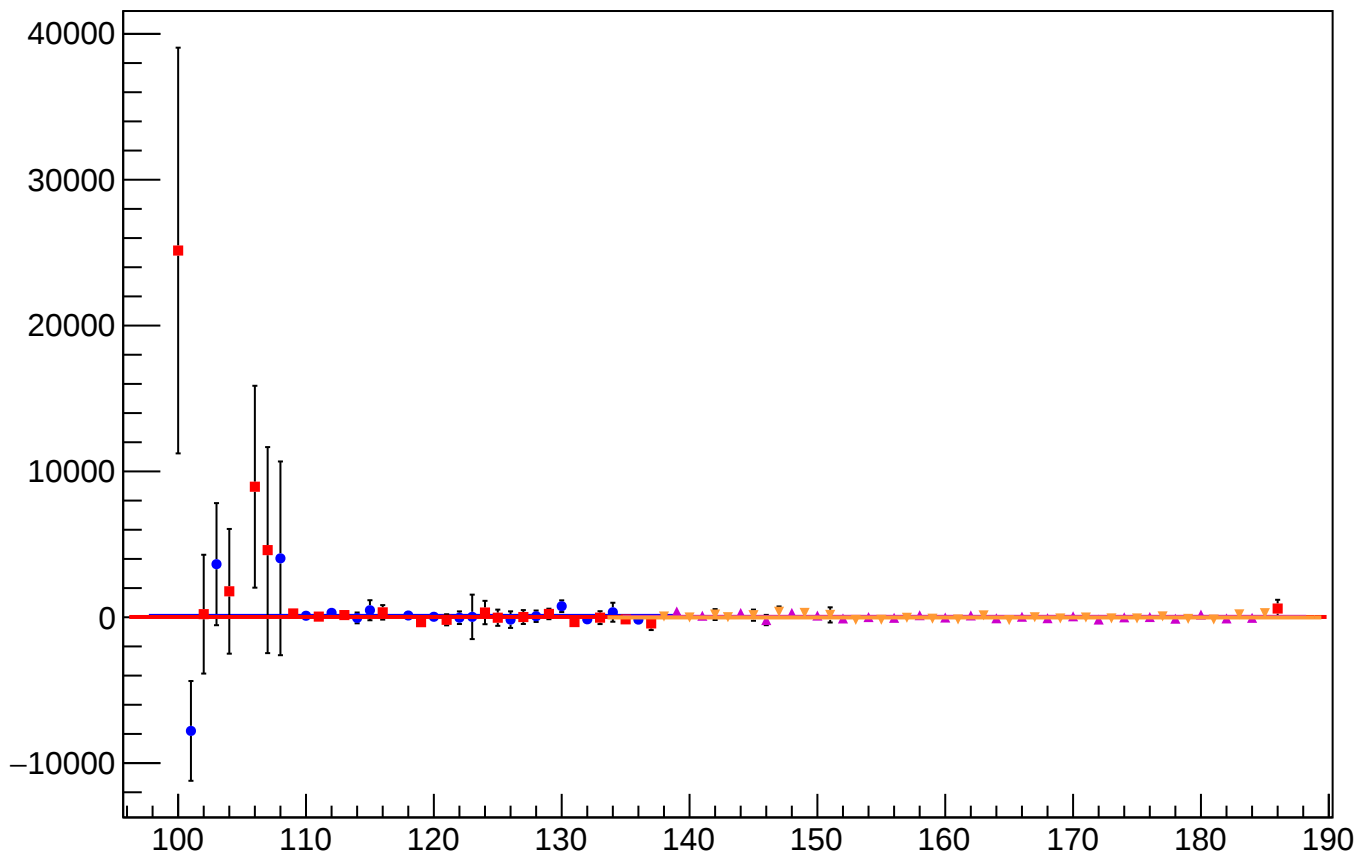
Right: 27.905+/-0.006 χ^2/NDF : 6518018.3/36

In: 28.479+/-0.004 χ^2/NDF : 3157563.4/39

Out: 28.515+/-0.004 χ^2/NDF : 3607383.2/44

All: 28.498+/-0.003 χ^2/NDF : 6764984.9/84

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 93.805+/-87.646 χ^2/NDF : 12.7/16

Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24

Right Out: 19.587+/-79.941 χ^2/NDF : 13.7/19

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

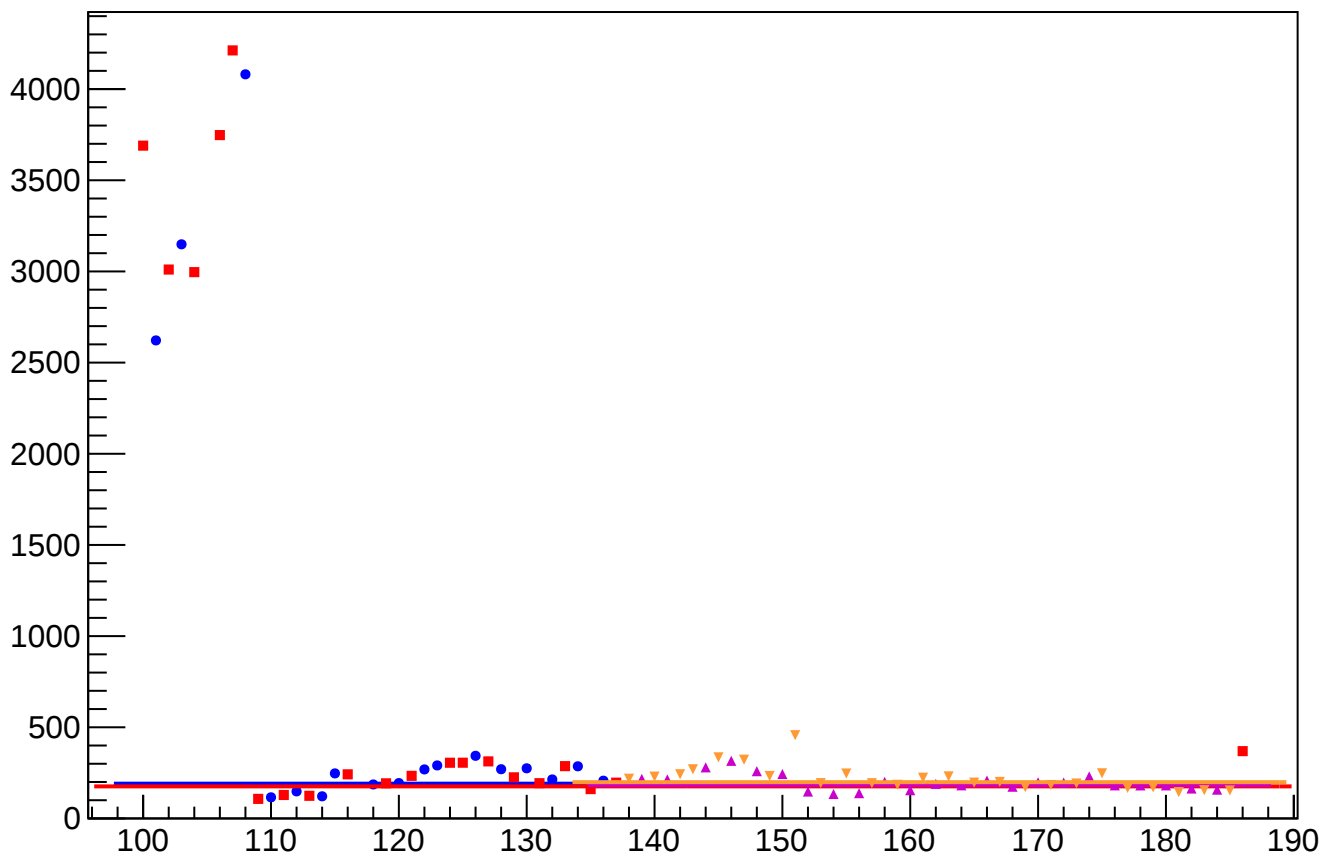
Right: 53.291+/-59.063 χ^2/NDF : 26.8/36

In: 41.607+/-40.666 χ^2/NDF : 20.6/39

Out: -4.968+/-41.249 χ^2/NDF : 22.7/44

All: 18.651+/-28.959 χ^2/NDF : 43.9/84

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.712 $\pm$ 0.062 χ^2 /NDF: 3585407.6/16

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 175.903 $\pm$ 0.057 χ^2 /NDF: 4424479.4/19

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF:1412341.8/22

Left: 190.847 $\pm$ 0.023 χ^2 /NDF: 3399302.2/47

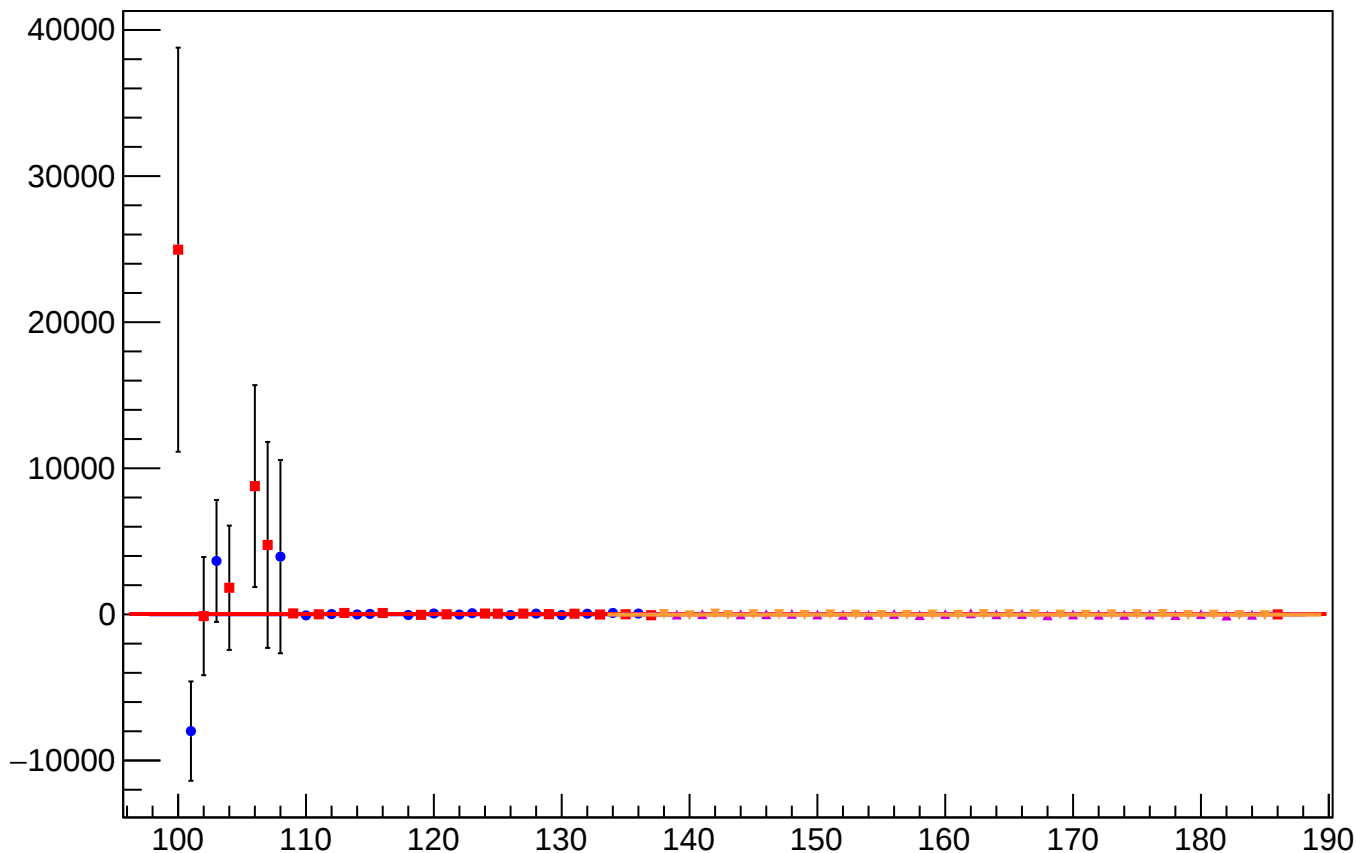
Right: 182.628 $\pm$ 0.042 χ^2 /NDF: 8041055.5/36

In: 185.007 $\pm$ 0.029 χ^2 /NDF:5008550.1/39

Out: 192.848 $\pm$ 0.029 χ^2 /NDF:6424577.9/44

All: 188.872 $\pm$ 0.020 χ^2 /NDF: 11469775.7/84

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.486+/-12.310 χ^2/NDF : 22.5/16

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 26.741+/-12.012 χ^2/NDF : 16.5/19

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

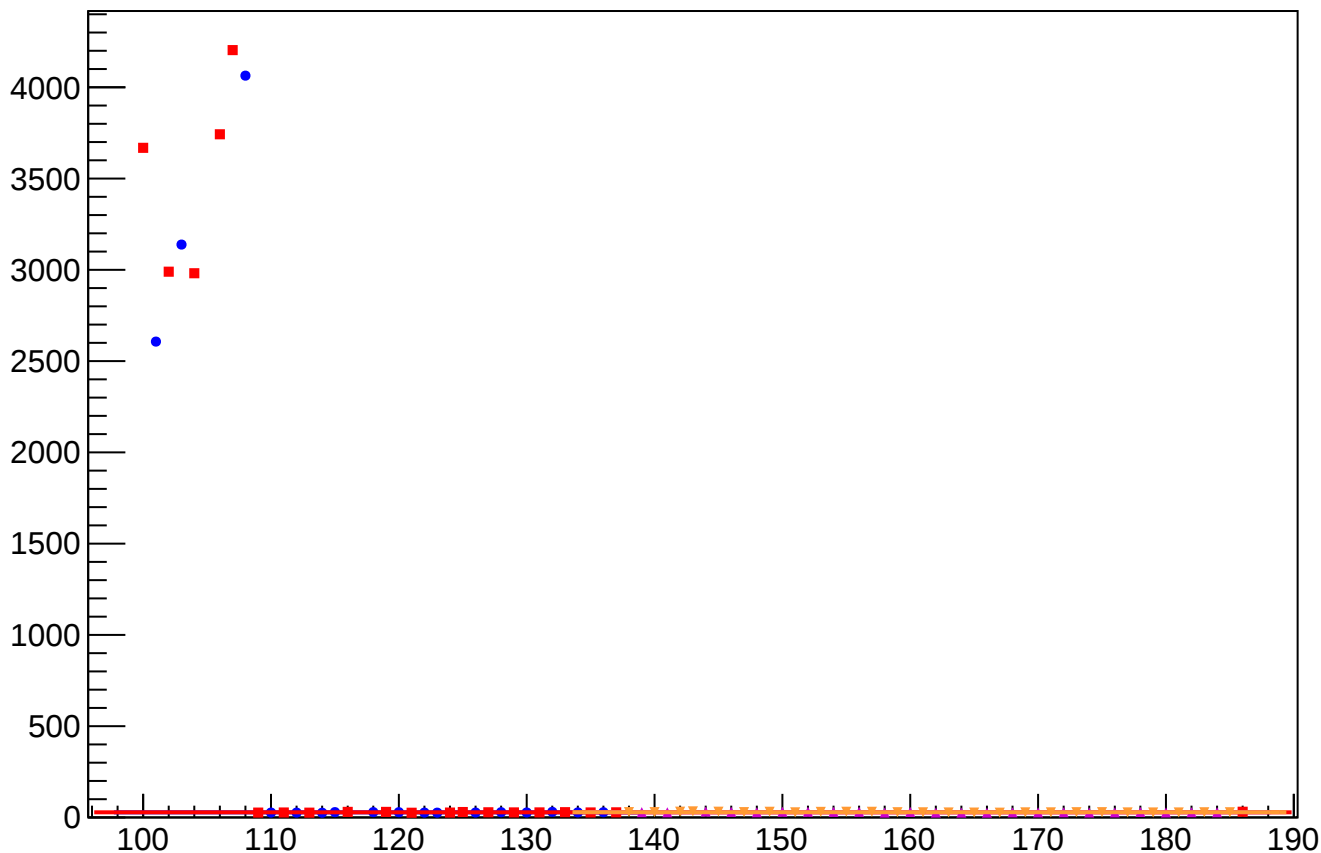
Right: 18.325+/-8.597 χ^2/NDF : 40.0/36

In: 1.909+/-6.043 χ^2/NDF : 49.1/39

Out: -5.651+/-5.873 χ^2/NDF : 42.6/44

All: -1.979+/-4.212 χ^2/NDF : 92.5/84

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.041 $\pm$ 0.009 χ^2 /NDF: 3027315.2/16

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF:122153.6/24

Right Out: 28.125 $\pm$ 0.008 χ^2 /NDF: 3488197.0/19

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF:128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

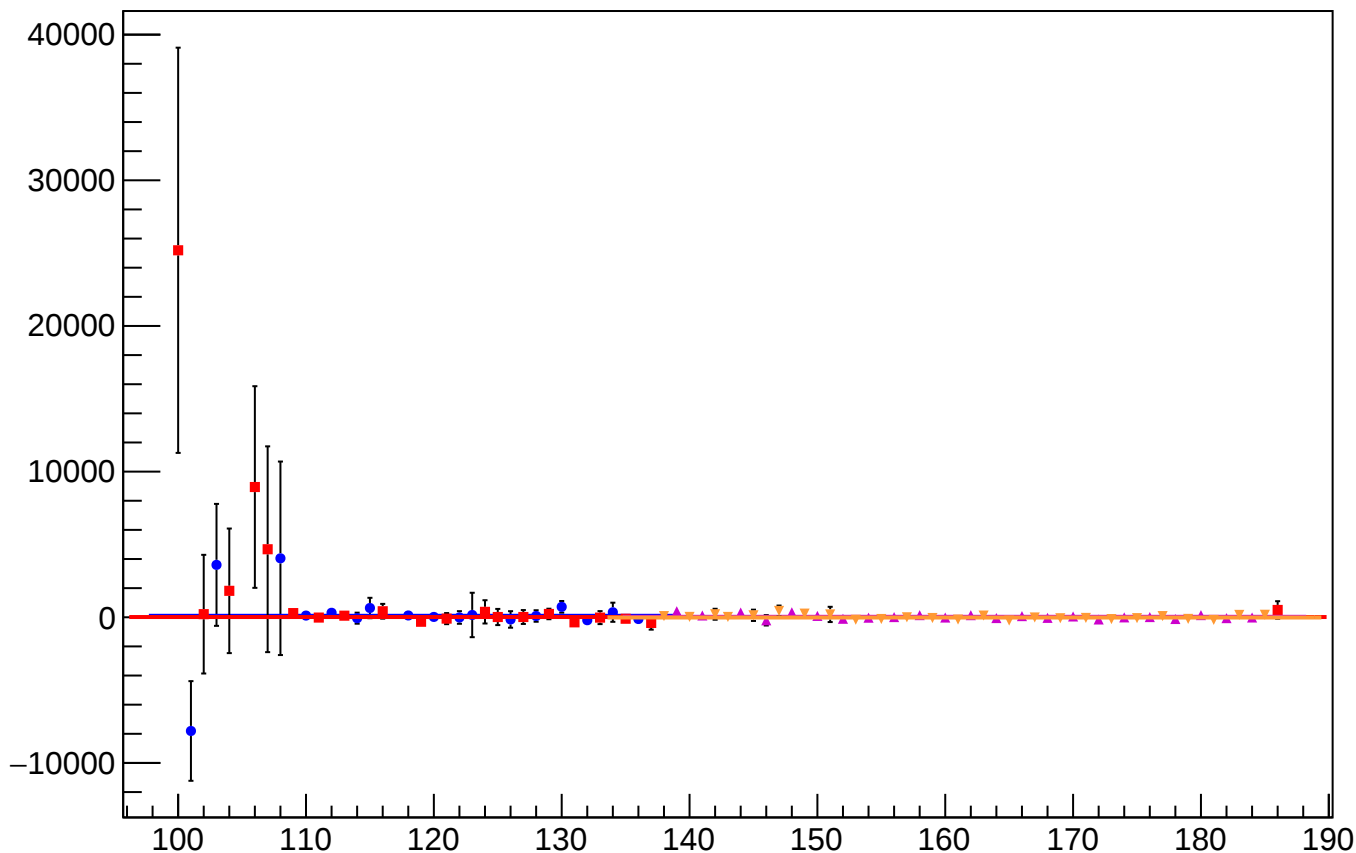
Right: 28.084 $\pm$ 0.006 χ^2 /NDF: 6515559.4/36

In: 28.615 $\pm$ 0.004 χ^2 /NDF:3161321.7/39

Out: 28.649 $\pm$ 0.004 χ^2 /NDF:3615366.3/44

All: 28.633 $\pm$ 0.003 χ^2 /NDF: 6776721.3/84

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.587 $\pm$ 88.682 χ^2 /NDF: 12.5/16

Left Out: -13.966 $\pm$ 48.735 χ^2 /NDF:8.1/24

Right Out: 16.951 $\pm$ 81.005 χ^2 /NDF: 12.9/19

Left In: 31.477 $\pm$ 46.483 χ^2 /NDF:7.8/22

Left: 9.830 $\pm$ 33.637 χ^2 /NDF: 16.4/47

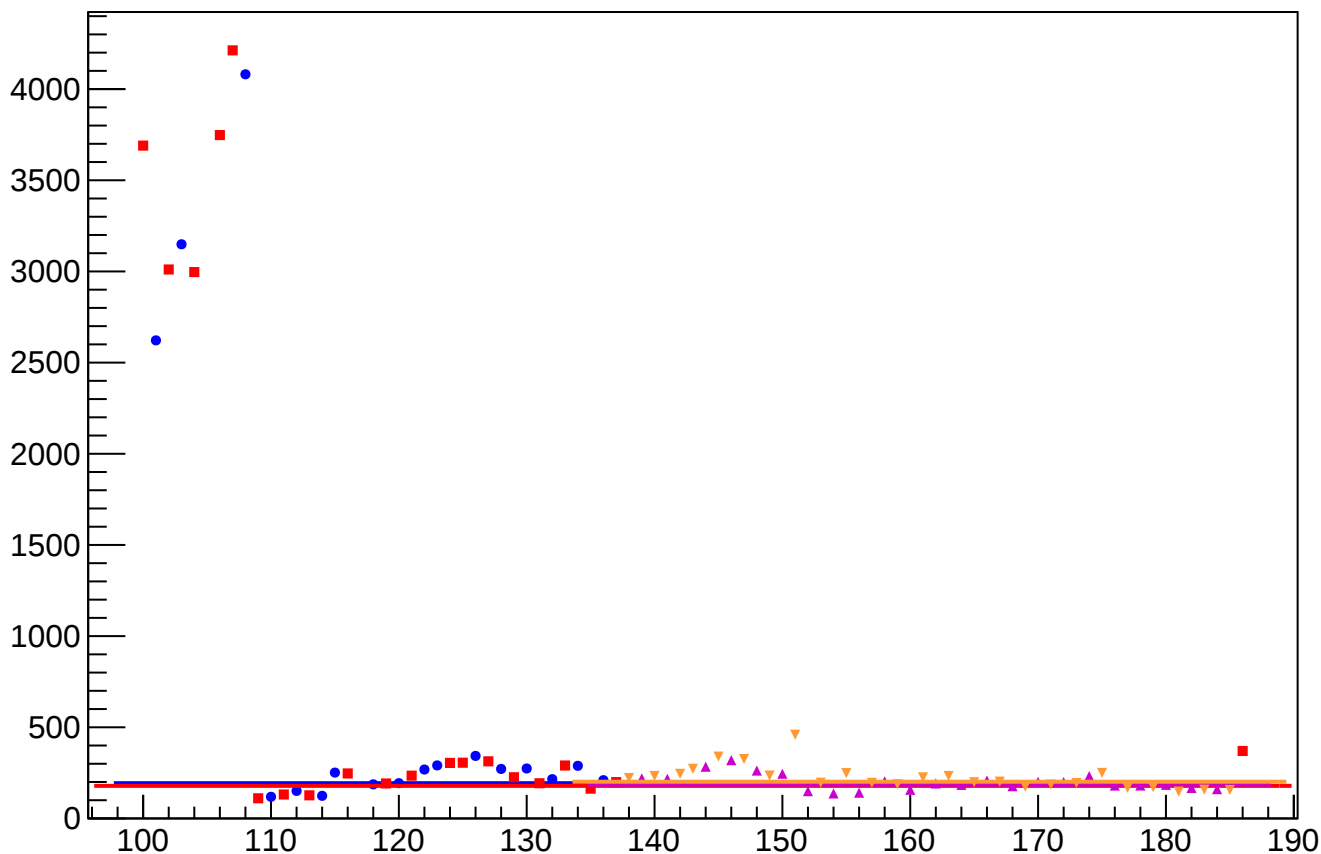
Right: 55.448 $\pm$ 59.809 χ^2 /NDF: 26.0/36

In: 46.588 $\pm$ 41.170 χ^2 /NDF:20.9/39

Out: -5.749 $\pm$ 41.760 χ^2 /NDF:21.2/44

All: 20.792 $\pm$ 29.318 χ^2 /NDF: 42.9/84

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.420+/-0.063 χ^2/NDF : 3538238.9/16

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 178.823+/-0.057 χ^2/NDF : 4366660.4/19

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

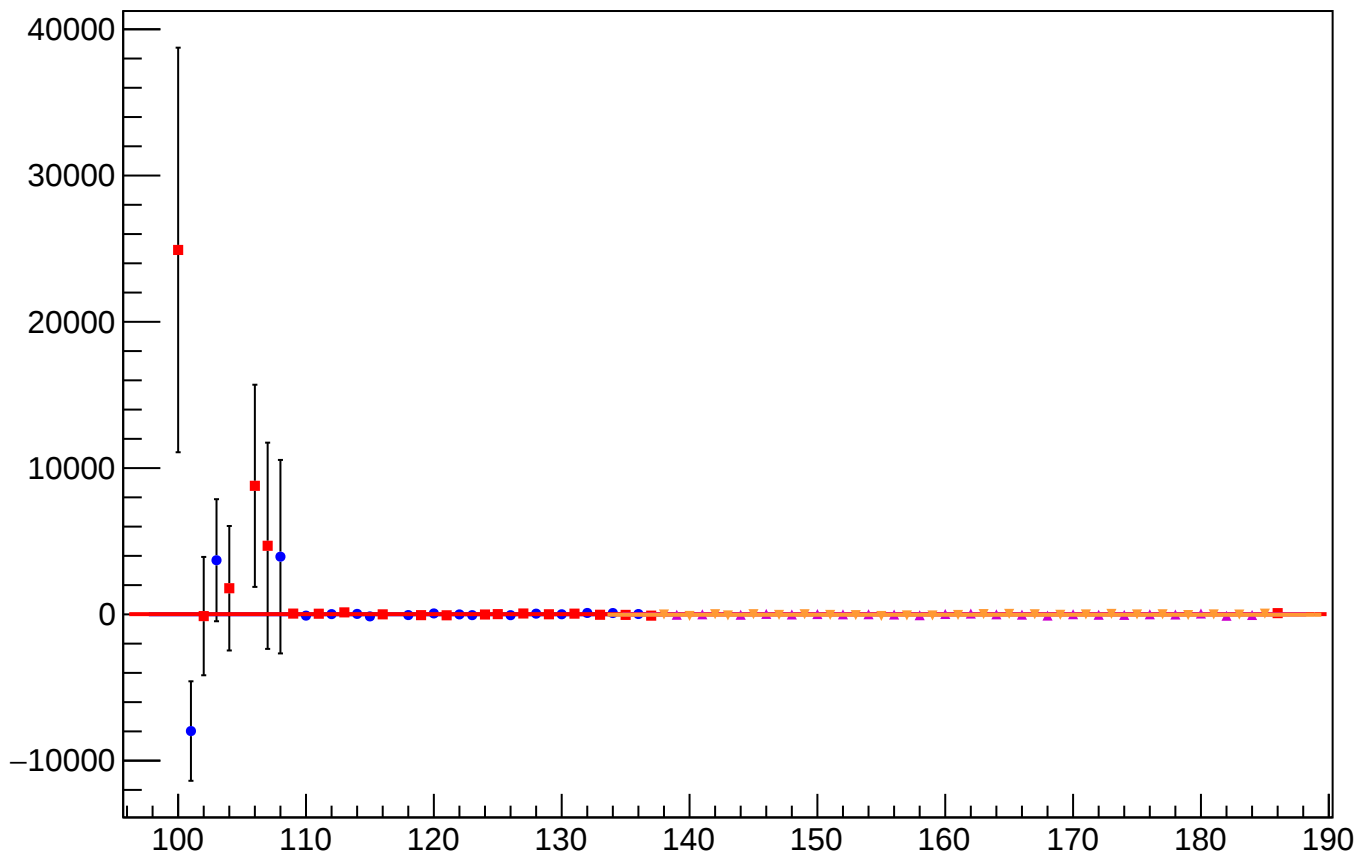
Right: 185.462+/-0.042 χ^2/NDF : 7934439.5/36

In: 187.504+/-0.029 χ^2/NDF : 4930462.1/39

Out: 195.475+/-0.030 χ^2/NDF : 6336683.3/44

All: 191.433+/-0.021 χ^2/NDF : 11304100.9/84

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.177 ± 14.983 $\chi^2/\text{NDF}: 20.1/16$

Left Out: -24.144 ± 8.076 $\chi^2/\text{NDF}: 24.9/24$

Right Out: 15.873 ± 14.548 $\chi^2/\text{NDF}: 22.6/19$

Left In: -5.924 ± 8.340 $\chi^2/\text{NDF}: 21.0/22$

Left: -15.326 ± 5.802 $\chi^2/\text{NDF}: 48.4/47$

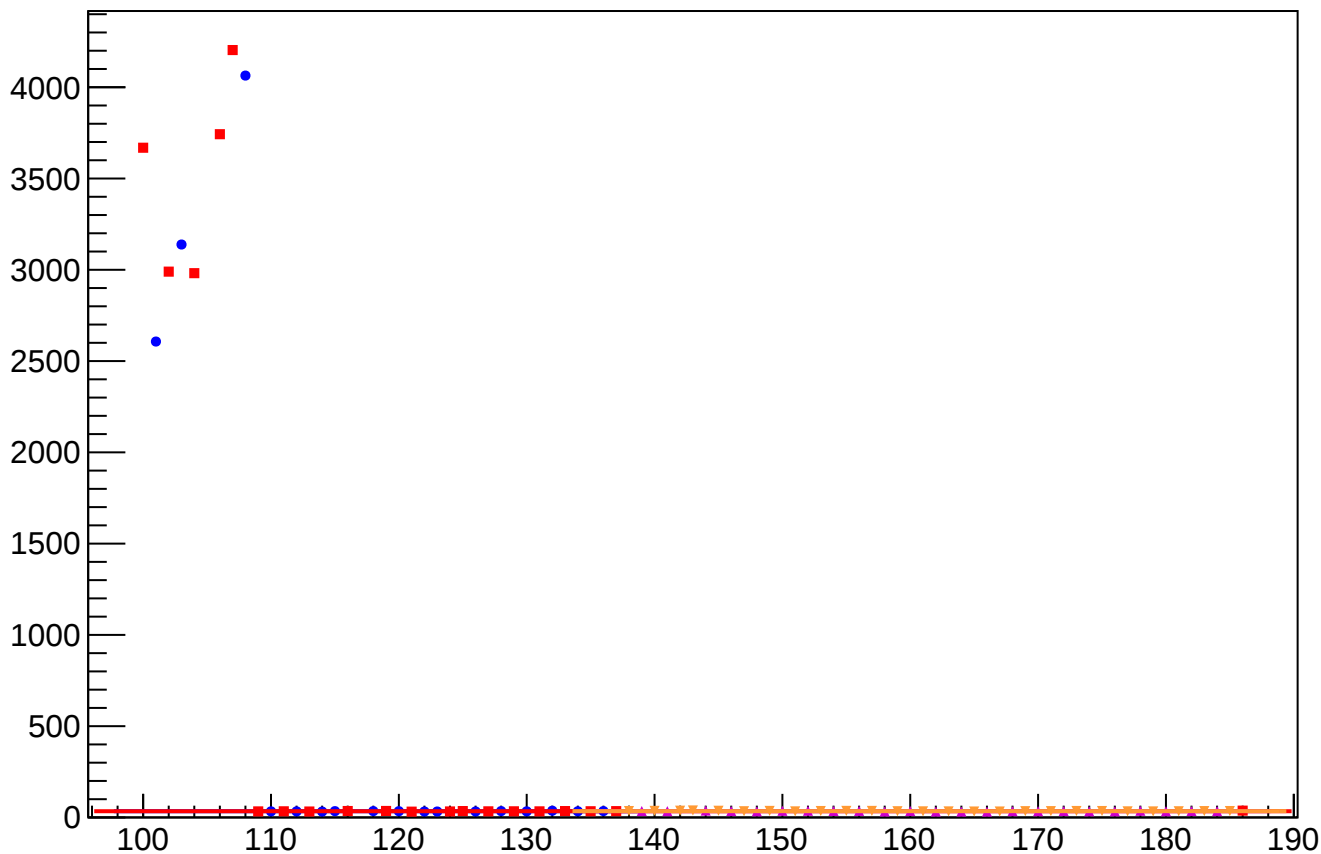
Right: 11.168 ± 10.437 $\chi^2/\text{NDF}: 42.9/36$

In: -3.061 ± 7.287 $\chi^2/\text{NDF}: 41.6/39$

Out: -14.716 ± 7.061 $\chi^2/\text{NDF}: 53.3/44$

All: -9.072 ± 5.071 $\chi^2/\text{NDF}: 96.2/84$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.169+/-0.011 χ^2/NDF : 3006128.0/16

Left Out: 34.617+/-0.006 χ^2/NDF : 57868.4/24

Right Out: 34.131+/-0.010 χ^2/NDF : 3457990.6/19

Left In: 34.682+/-0.006 χ^2/NDF : 59834.3/22

Left: 34.649+/-0.004 χ^2/NDF : 117764.0/47

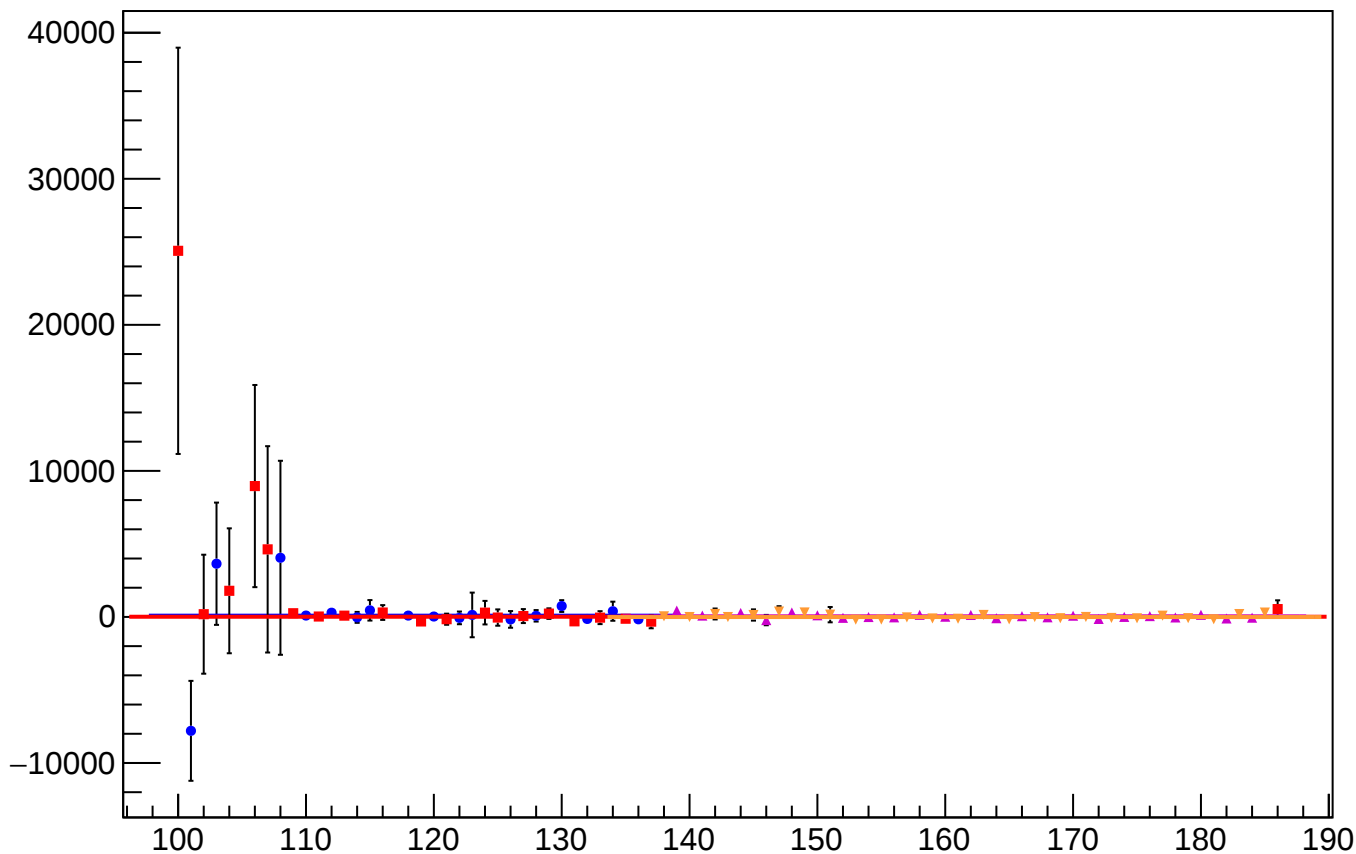
Right: 34.149+/-0.007 χ^2/NDF : 6464125.2/36

In: 34.560+/-0.005 χ^2/NDF : 3067753.7/39

Out: 34.503+/-0.005 χ^2/NDF : 3517571.7/44

All: 34.531+/-0.004 χ^2/NDF : 6585389.9/84

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.712 $\pm$ 88.241 χ^2 /NDF: 12.5/16

Left Out: -7.558 $\pm$ 48.662 χ^2 /NDF:8.8/24

Right Out: 13.443 $\pm$ 80.496 χ^2 /NDF: 11.9/19

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

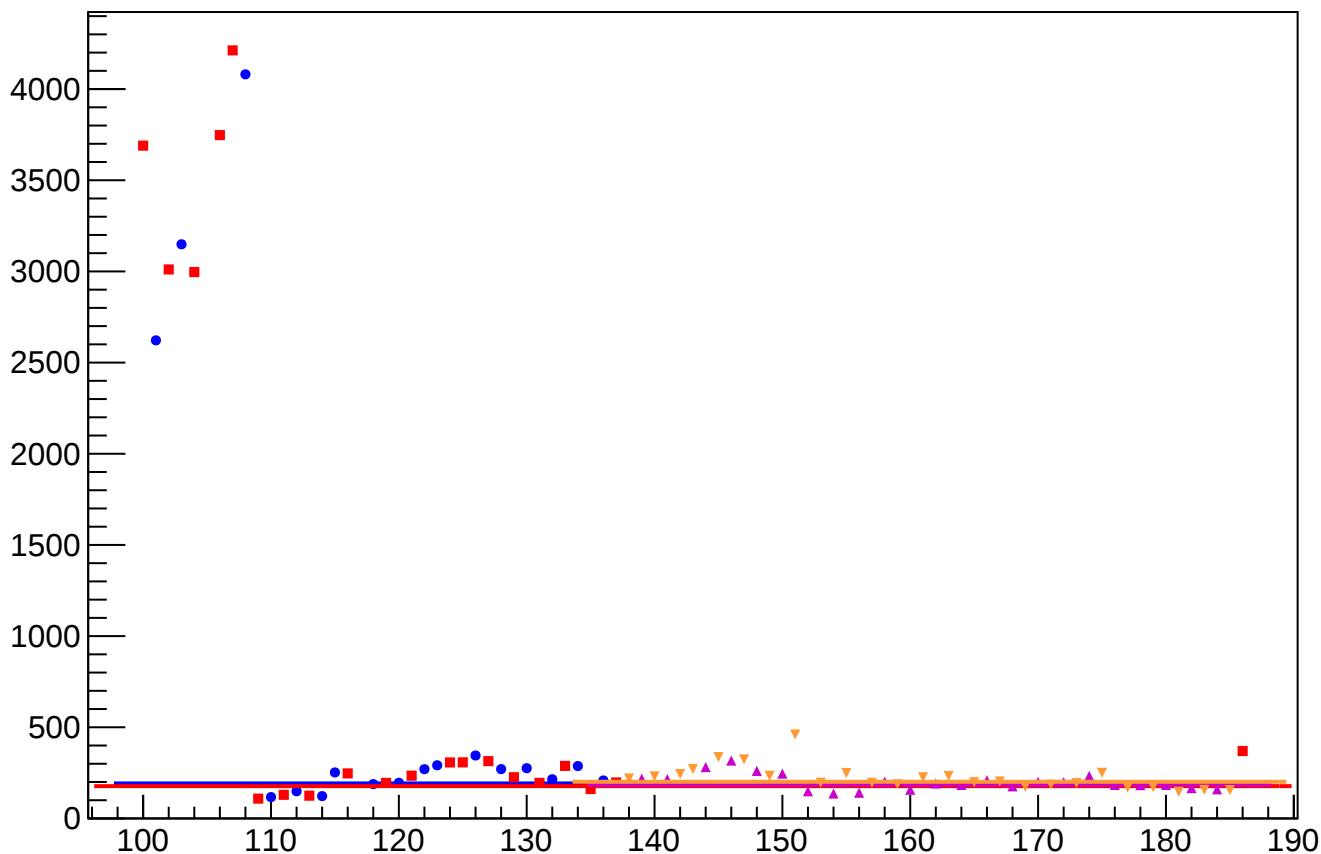
Right: 46.721 $\pm$ 59.469 χ^2 /NDF: 24.7/36

In: 46.191 $\pm$ 41.083 χ^2 /NDF:19.9/39

Out: -1.937 $\pm$ 41.644 χ^2 /NDF:20.7/44

All: 22.453 $\pm$ 29.246 χ^2 /NDF: 41.2/84

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.118 $\pm$ 0.062 χ^2 /NDF: 3575311.3/16

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 177.256 $\pm$ 0.057 χ^2 /NDF: 4415157.9/19

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

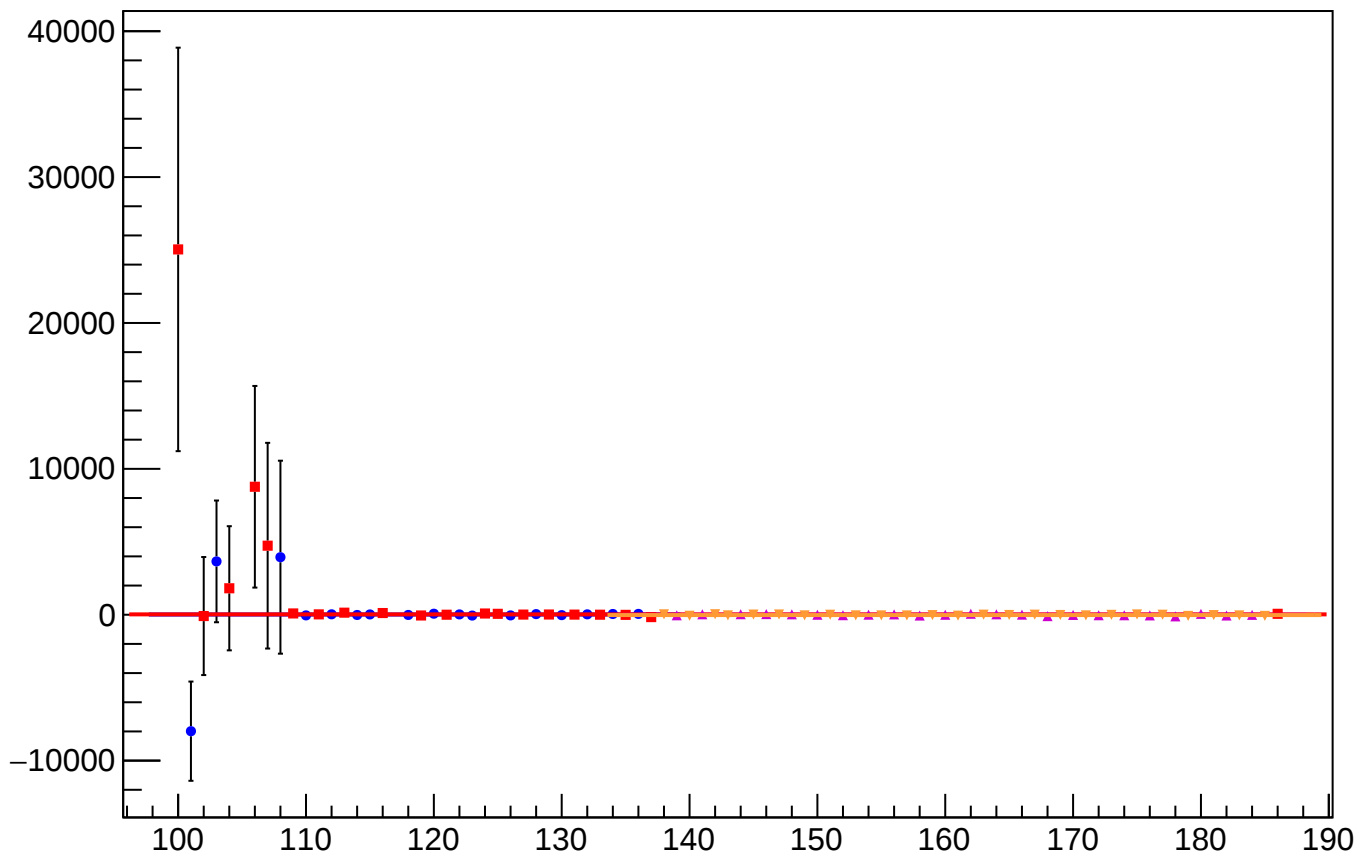
Right: 184.006 $\pm$ 0.042 χ^2 /NDF: 8021436.3/36

In: 187.034 $\pm$ 0.029 χ^2 /NDF:4955197.9/39

Out: 194.790 $\pm$ 0.029 χ^2 /NDF:6393178.1/44

All: 190.860 $\pm$ 0.021 χ^2 /NDF: 11383534.0/84

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.225+/-13.662 χ^2/NDF : 14.8/16

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 25.143+/-13.303 χ^2/NDF : 27.8/19

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

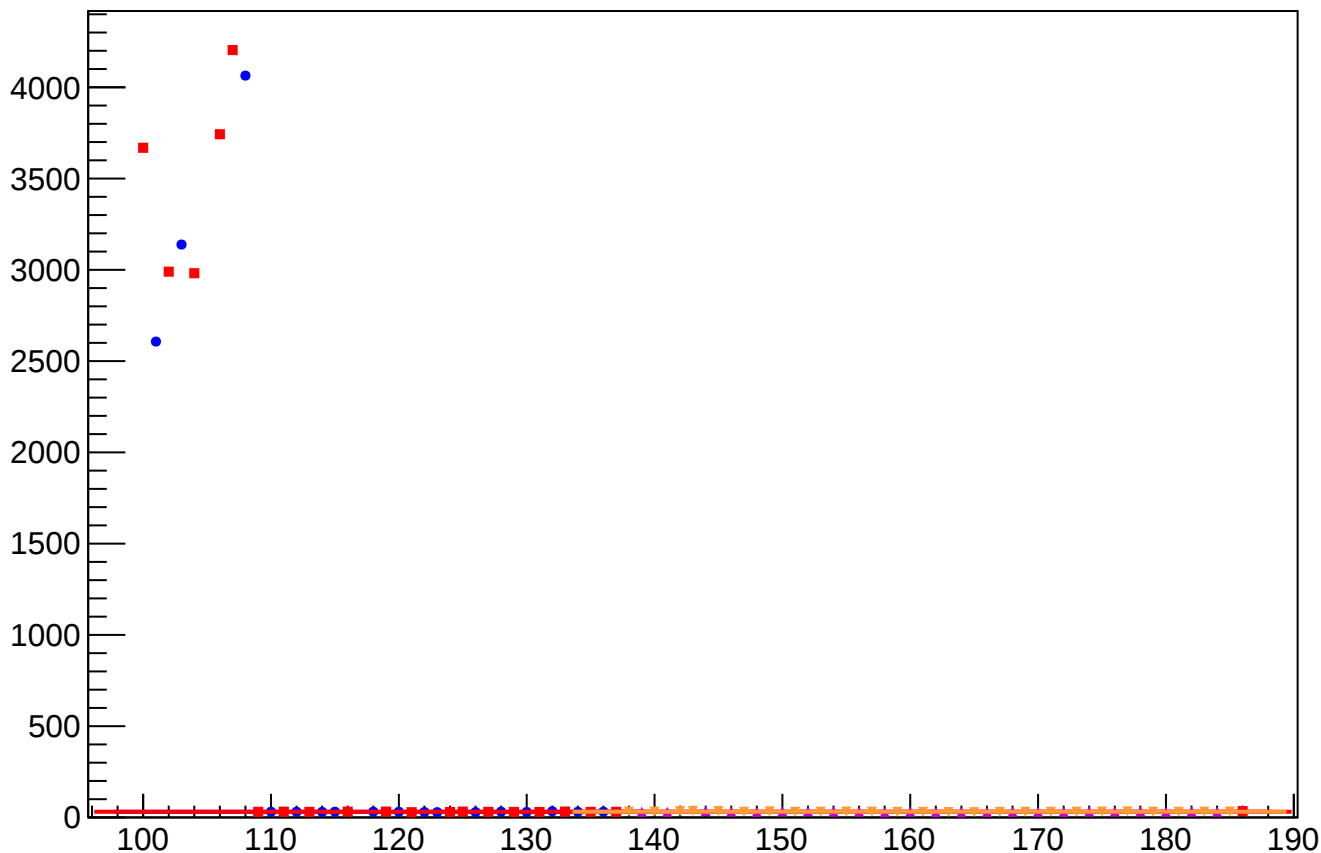
Right: 19.829+/-9.531 χ^2/NDF : 42.9/36

In: -1.538+/-6.626 χ^2/NDF :55.2/39

Out: -11.982+/-6.435 χ^2/NDF :56.3/44

All: -6.913+/-4.616 χ^2/NDF : 112.8/84

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.158+/-0.010 χ^2/NDF : 3014166.6/16

Left Out: 31.488+/-0.005 χ^2/NDF : 81938.2/24

Right Out: 31.188+/-0.009 χ^2/NDF : 3466638.6/19

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

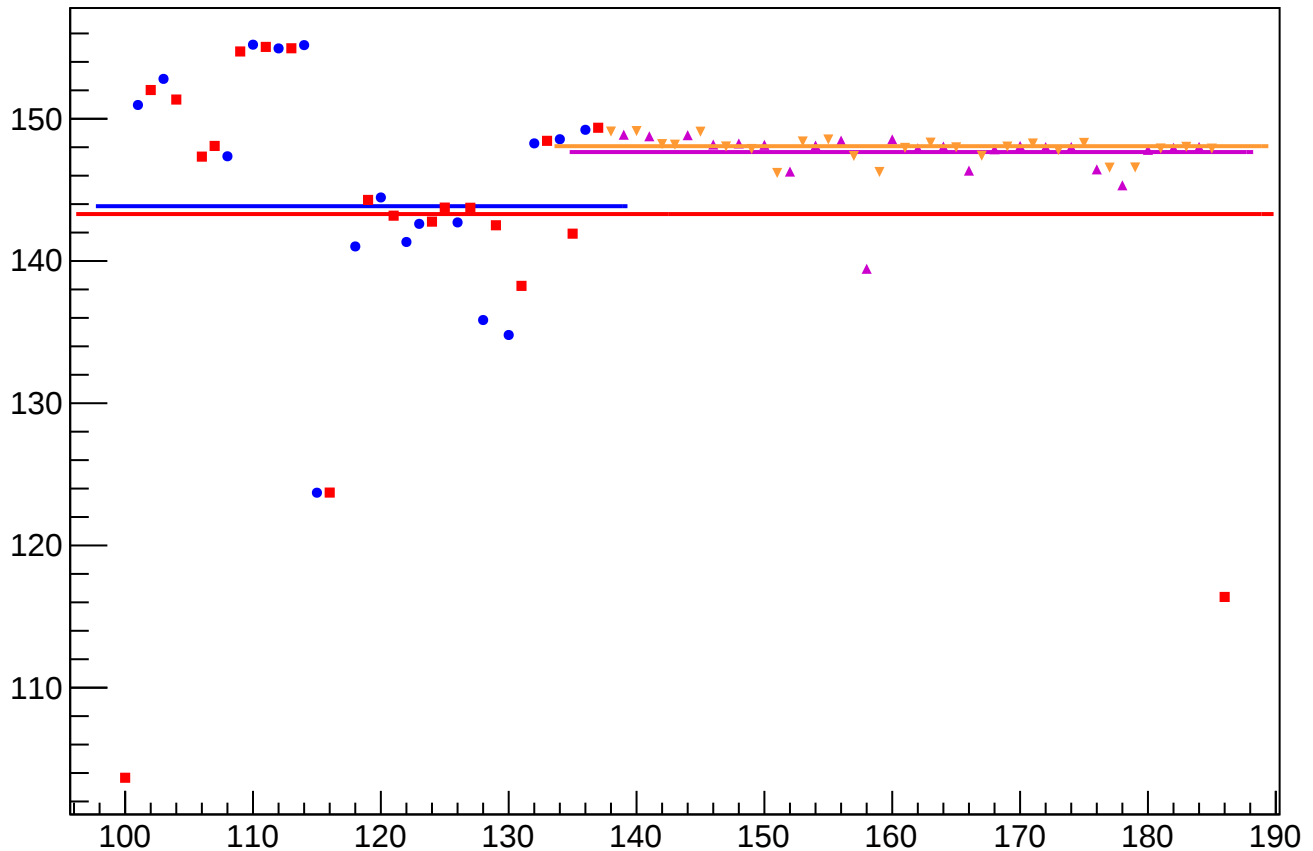
Right: 31.173+/-0.007 χ^2/NDF : 6480810.1/36

In: 31.401+/-0.005 χ^2/NDF : 3102791.5/39

Out: 31.418+/-0.005 χ^2/NDF : 3549360.2/44

All: 31.410+/-0.003 χ^2/NDF : 6652158.8/84

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.854 $\pm$ 0.000 χ^2 /NDF: 3448306444.5/16

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 143.301 $\pm$ 0.000 χ^2 /NDF: 6071566594.1/19

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

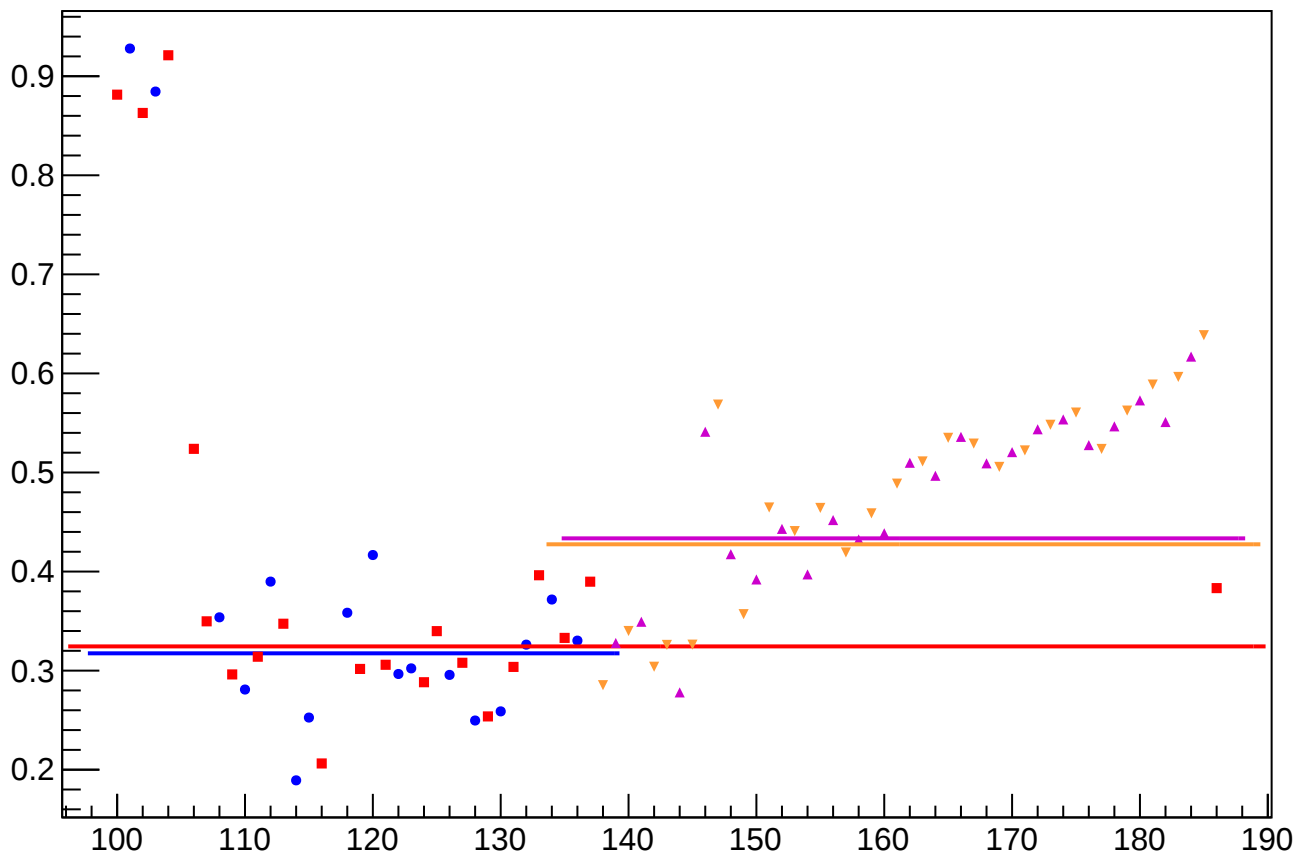
Right: 143.569 $\pm$ 0.000 χ^2 /NDF: 9528586901.9/36

In: 146.170 $\pm$ 0.000 χ^2 /NDF: 4279328275.3/39

Out: 146.218 $\pm$ 0.000 χ^2 /NDF: 6957436673.5/44

All: 146.195 $\pm$ 0.000 χ^2 /NDF: 11236934670.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2/NDF : 1273243.2/16

Left Out: 0.428 $\pm$ 0.000 χ^2/NDF :1892802.8/24

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1233247.1/19

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

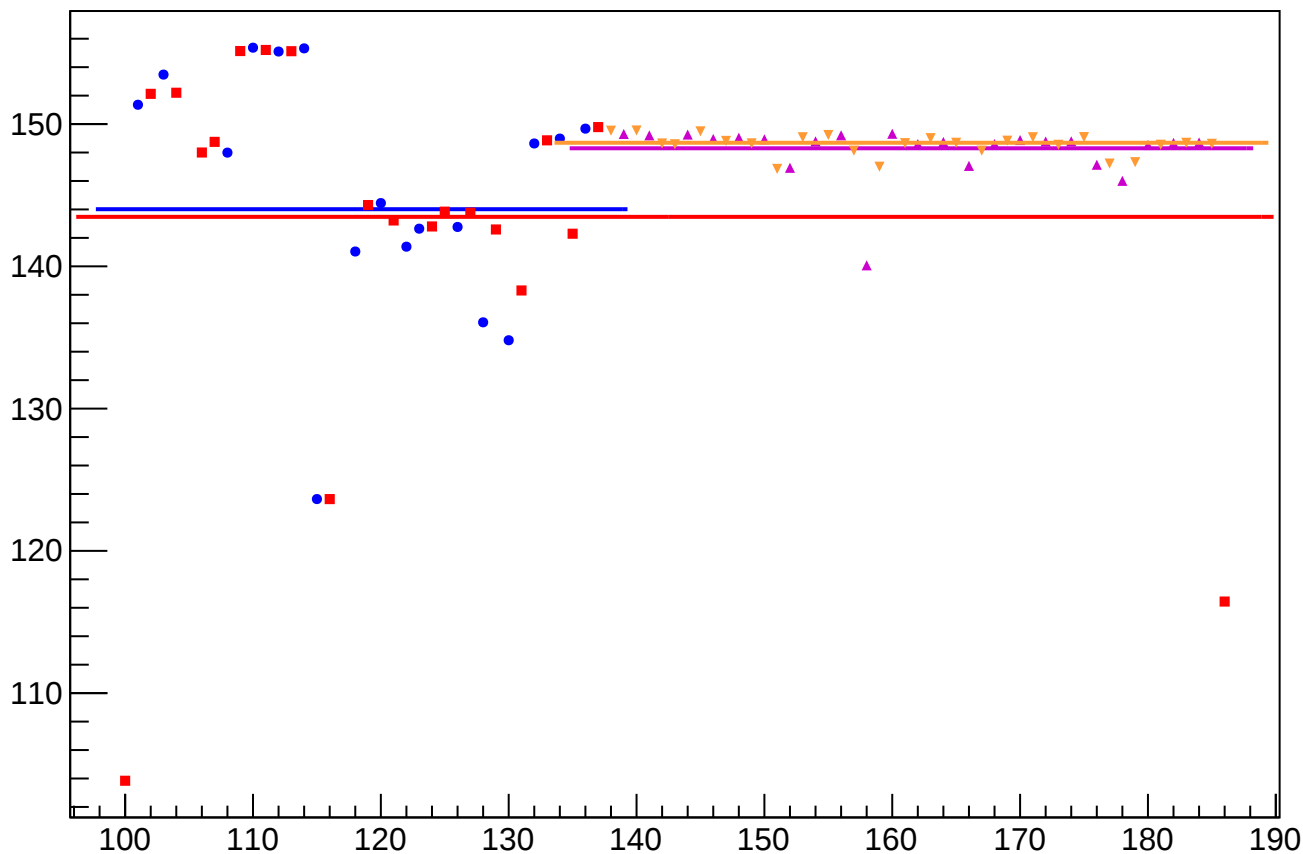
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2509276.2/36

In: 0.388 $\pm$ 0.000 χ^2/NDF :3658039.1/39

Out: 0.387 $\pm$ 0.000 χ^2/NDF :3891007.0/44

All: 0.388 $\pm$ 0.000 χ^2/NDF : 7549102.8/84

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.016+/-0.000 χ^2/NDF : 3492221319.5/16

Left Out: 148.687+/-0.000 χ^2/NDF : 52285197.5/24

Right Out: 143.479+/-0.000 χ^2/NDF : 6058269547.2/19

Left In: 148.298+/-0.000 χ^2/NDF : 332527463.6/22

Left: 148.500+/-0.000 χ^2/NDF : 391414535.1/47

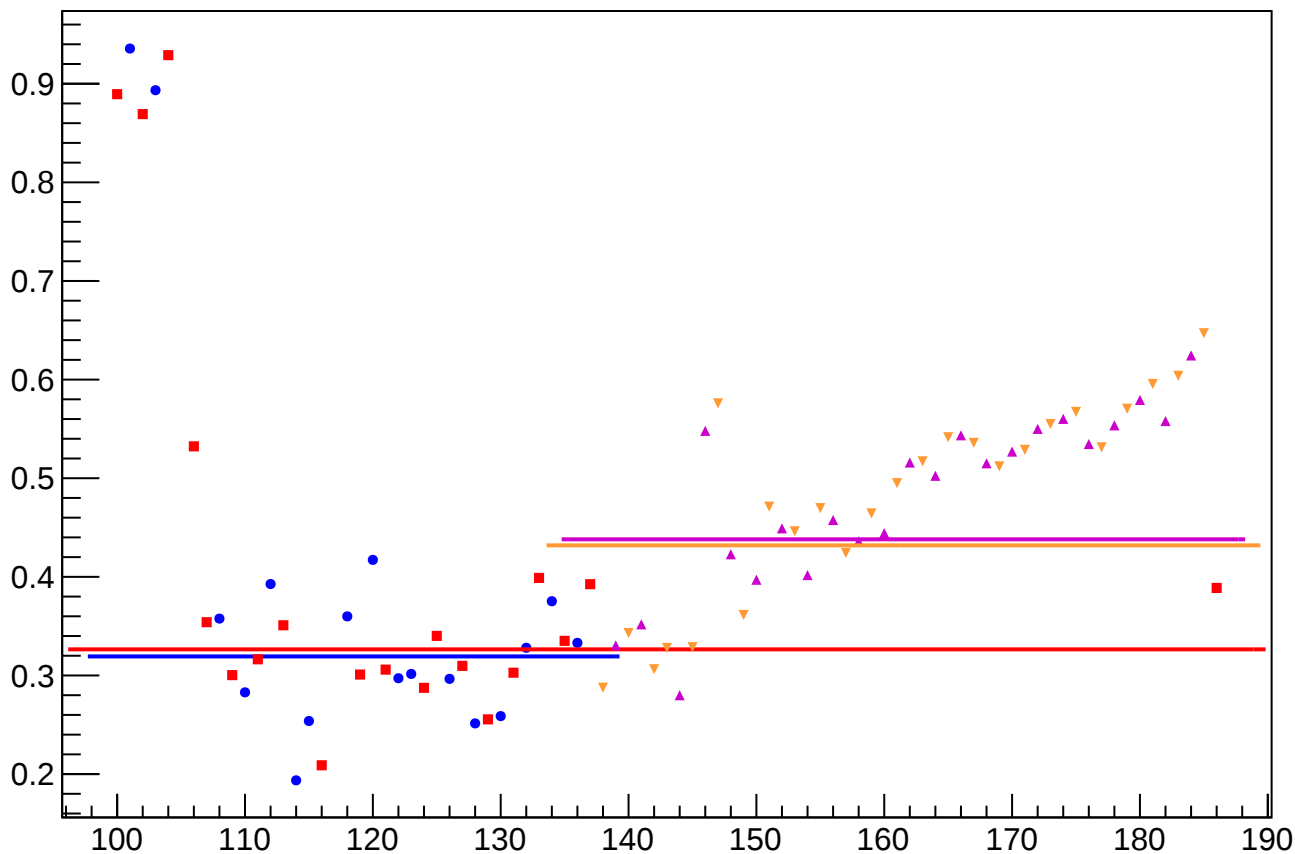
Right: 143.739+/-0.000 χ^2/NDF : 9558622842.3/36

In: 146.611+/-0.000 χ^2/NDF : 4431587247.2/39

Out: 146.651+/-0.000 χ^2/NDF : 7071590272.6/44

All: 146.632+/-0.000 χ^2/NDF : 11503294500.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2 /NDF: 1274809.7/16

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.326 $\pm$ 0.000 χ^2 /NDF: 1237167.2/19

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

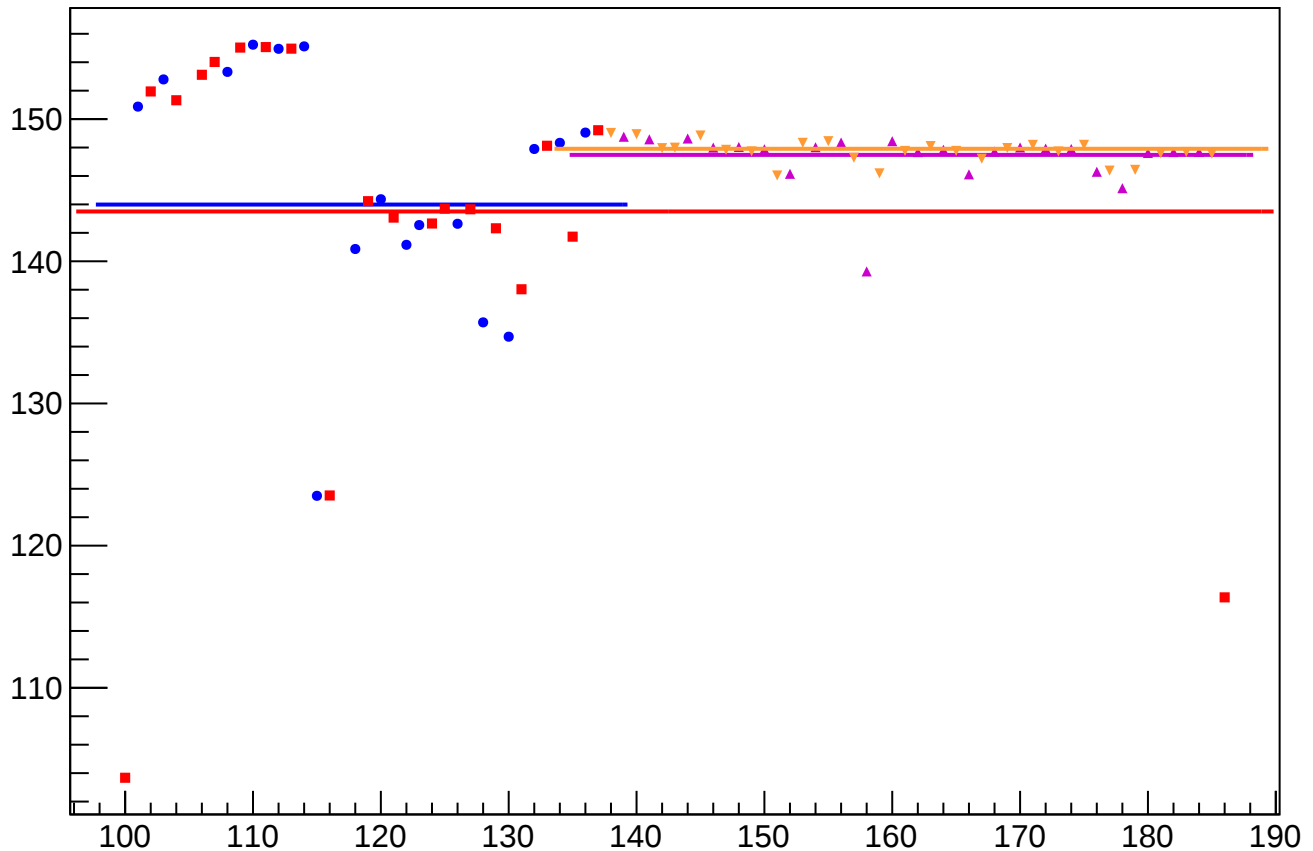
Right: 0.323 $\pm$ 0.000 χ^2 /NDF: 2514881.1/36

In: 0.391 $\pm$ 0.000 χ^2 /NDF:3713141.1/39

Out: 0.391 $\pm$ 0.000 χ^2 /NDF:3949930.6/44

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 7663117.3/84

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.990 $\pm$ 0.000 χ^2 /NDF: 3661758828.8/16

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 143.503 $\pm$ 0.000 χ^2 /NDF: 6407120582.8/19

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

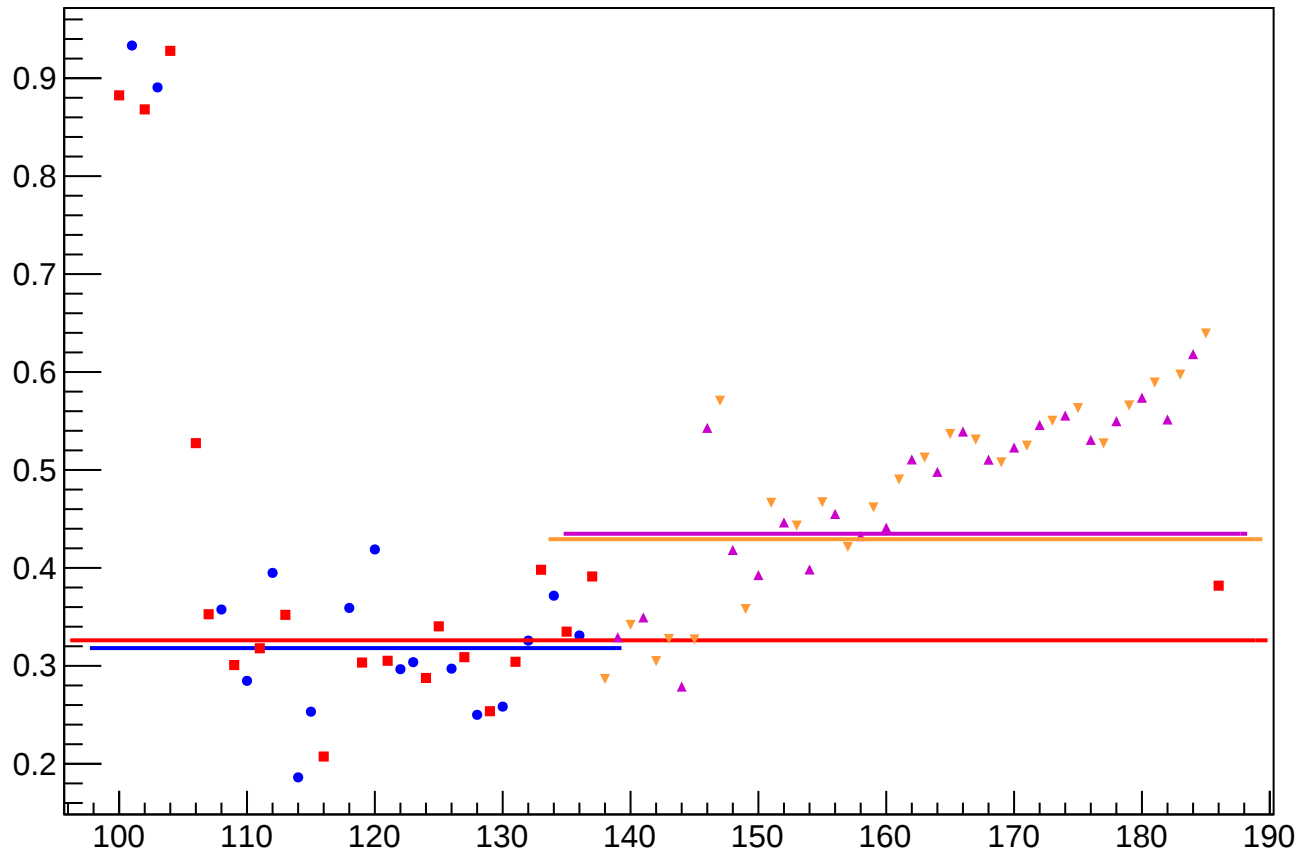
Right: 143.739 $\pm$ 0.000 χ^2 /NDF: 10075583547.0/36

In: 146.115 $\pm$ 0.000 χ^2 /NDF: 4412250956.8/39

Out: 146.200 $\pm$ 0.000 χ^2 /NDF: 7165055277.8/44

All: 146.159 $\pm$ 0.000 χ^2 /NDF: 11577823108.

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.318+/-0.000 χ^2/NDF : 1287972.7/16

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.326+/-0.000 χ^2/NDF : 1236452.5/19

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

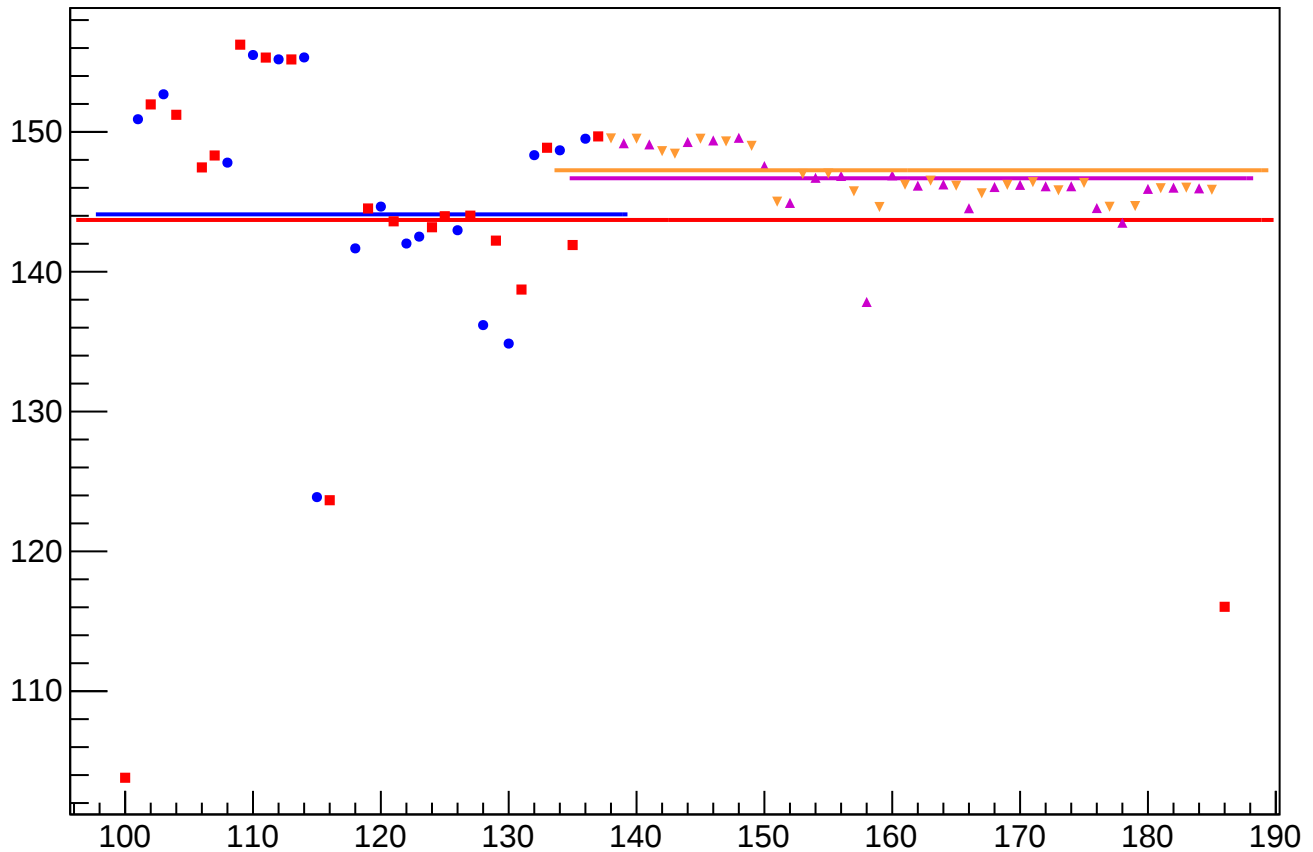
Right: 0.322+/-0.000 χ^2/NDF : 2527996.6/36

In: 0.389+/-0.000 χ^2/NDF :3684507.2/39

Out: 0.389+/-0.000 χ^2/NDF :3888235.1/44

All: 0.389+/-0.000 χ^2/NDF : 7572742.7/84

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.104 ± 0.000 $\chi^2/\text{NDF}: 3160280337.5/16$

Left Out: 147.257 ± 0.000 $\chi^2/\text{NDF}: 261906278.3/24$

Right Out: 143.703 ± 0.000 $\chi^2/\text{NDF}: 5819996538.2/19$

Left In: 146.685 ± 0.000 $\chi^2/\text{NDF}: 554922388.0/22$

Left: 146.981 ± 0.000 $\chi^2/\text{NDF}: 830580031.2/47$

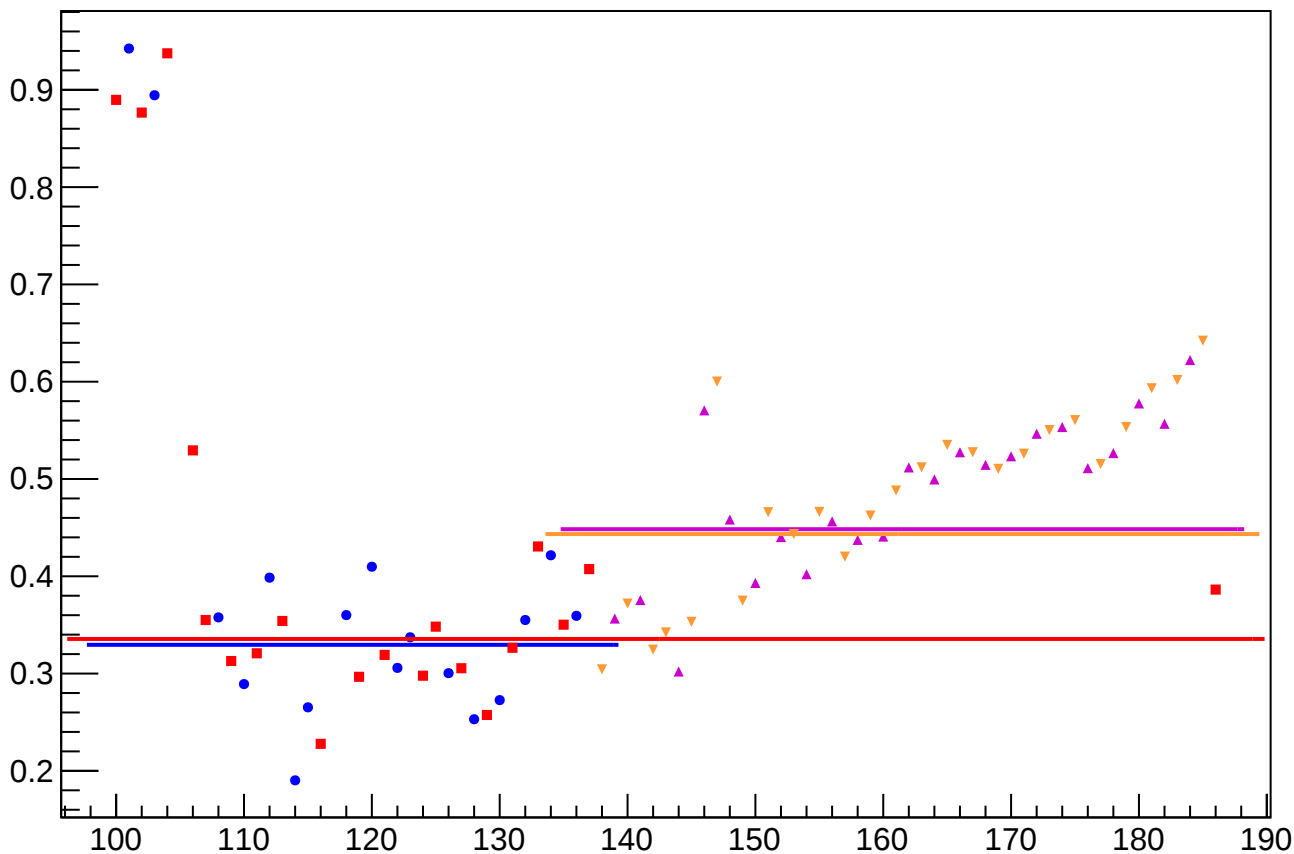
Right: 143.896 ± 0.000 $\chi^2/\text{NDF}: 8984521946.6/36$

In: 145.687 ± 0.000 $\chi^2/\text{NDF}: 3923928402.4/39$

Out: 145.880 ± 0.000 $\chi^2/\text{NDF}: 6507502092.4/44$

All: 145.787 ± 0.000 $\chi^2/\text{NDF}: 10433964483.$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2 /NDF: 1270354.0/16

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.336 $\pm$ 0.000 χ^2 /NDF: 1192203.5/19

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

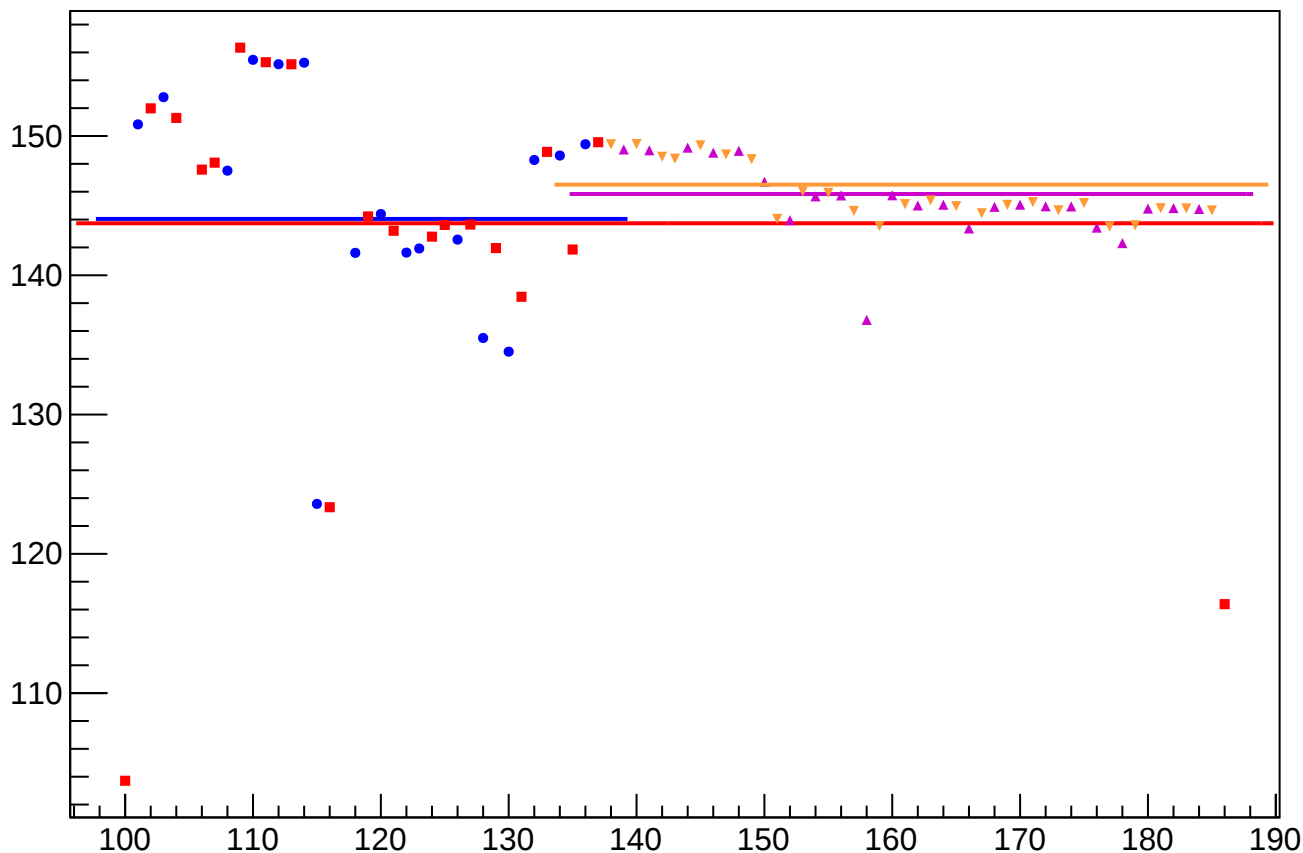
Right: 0.333 $\pm$ 0.000 χ^2 /NDF: 2464488.7/36

In: 0.402 $\pm$ 0.000 χ^2 /NDF:3275350.0/39

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:3455632.7/44

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 6731083.7/84

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.046 $\pm$ 0.000 χ^2 /NDF: 3279467915.9/16

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.733 $\pm$ 0.000 χ^2 /NDF: 5835517282.7/19

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

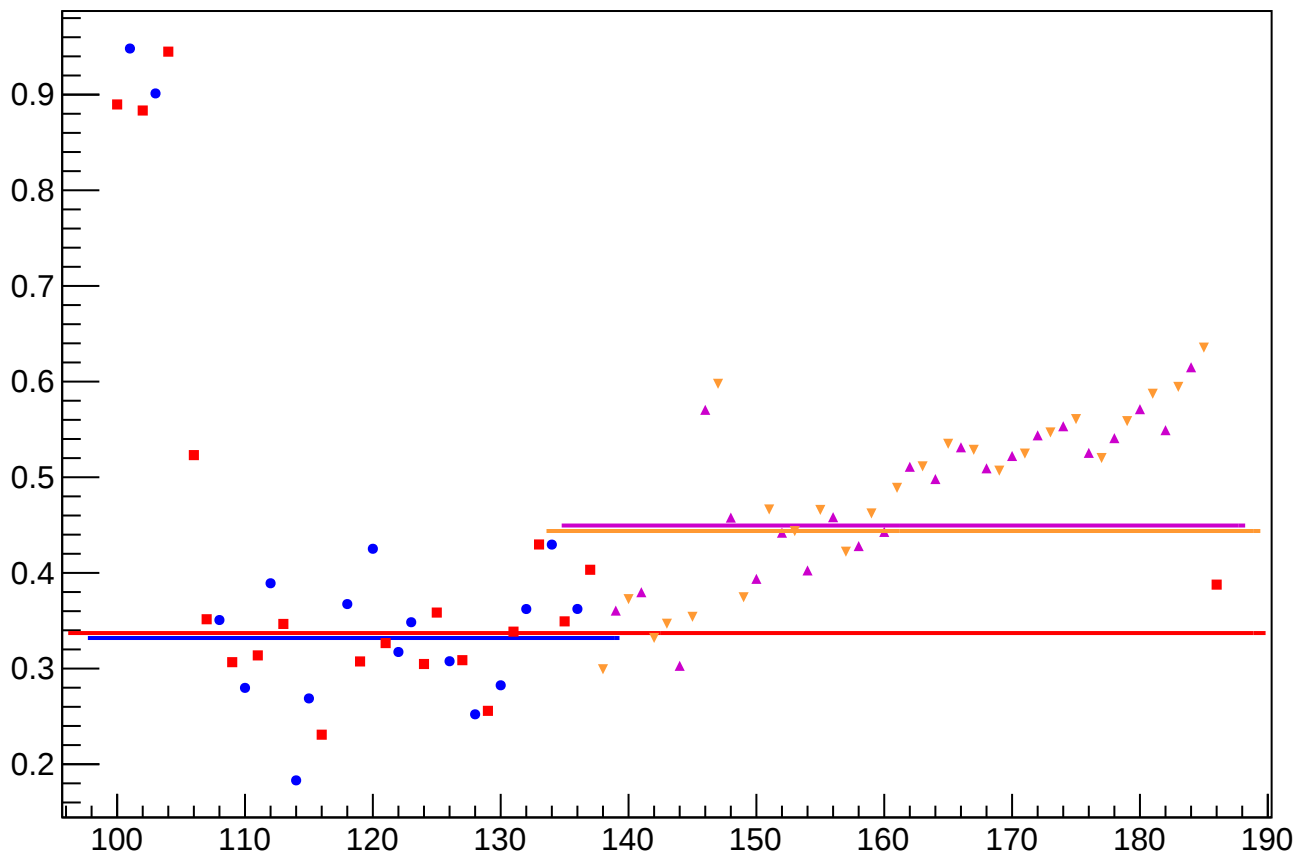
Right: 143.883 $\pm$ 0.000 χ^2 /NDF: 9117532886.0/36

In: 145.149 $\pm$ 0.000 χ^2 /NDF: 4068575284.1/39

Out: 145.438 $\pm$ 0.000 χ^2 /NDF: 6494308149.8/44

All: 145.299 $\pm$ 0.000 χ^2 /NDF: 10568586795.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.000 χ^2 /NDF: 1287882.2/16

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.337 $\pm$ 0.000 χ^2 /NDF: 1181516.7/19

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

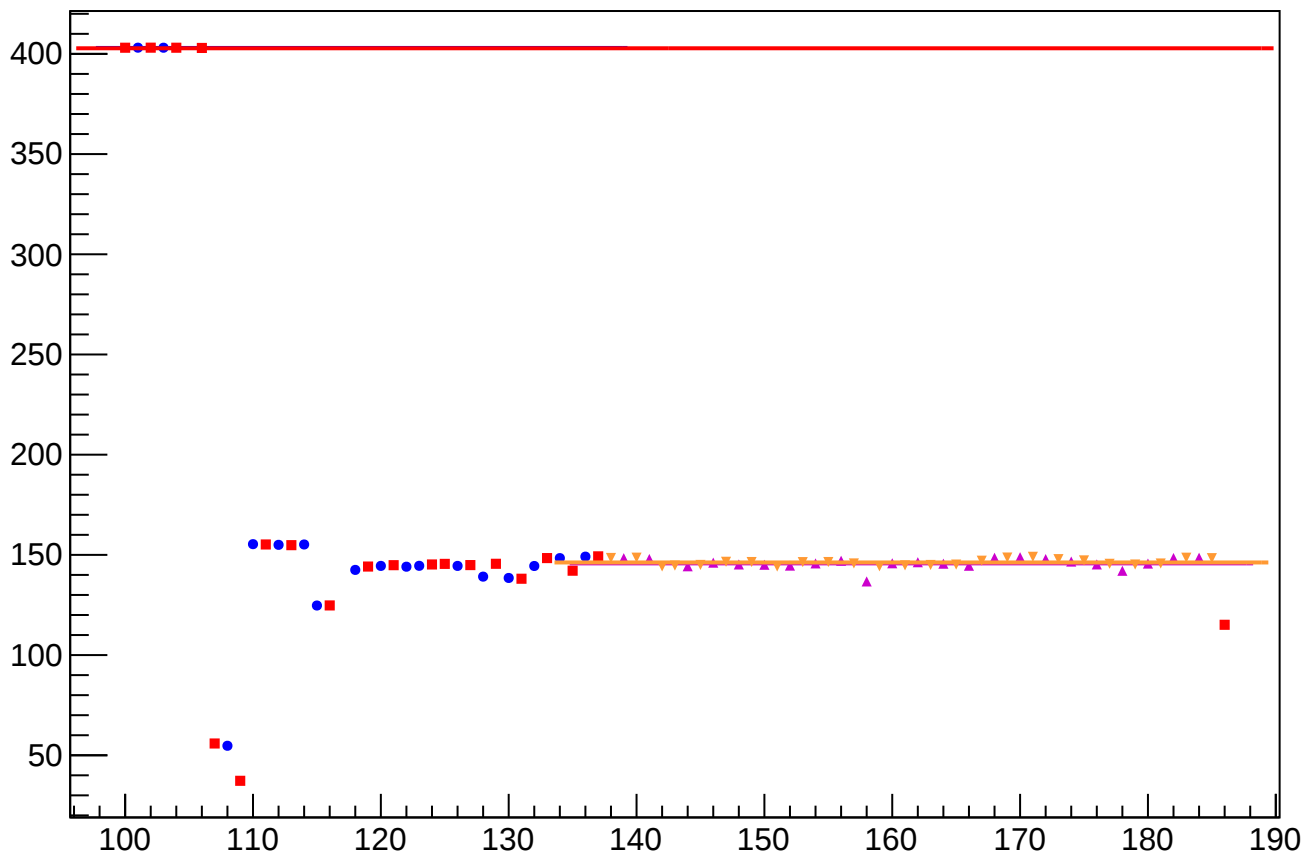
Right: 0.335 $\pm$ 0.000 χ^2 /NDF: 2470806.1/36

In: 0.404 $\pm$ 0.000 χ^2 /NDF:3235970.1/39

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:3403054.7/44

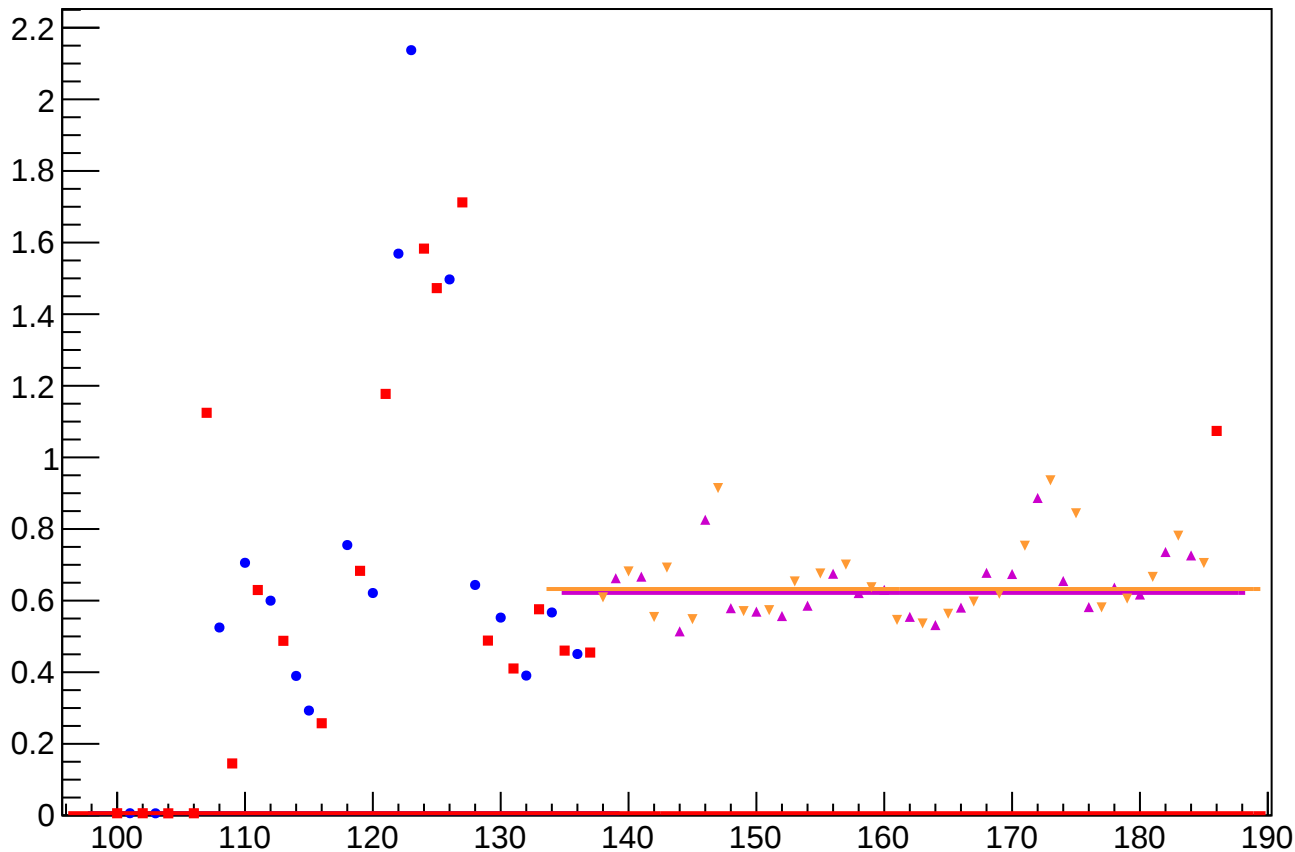
All: 0.404 $\pm$ 0.000 χ^2 /NDF: 6639450.0/84

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1097981079296.6/16	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.872+/-0.000	χ^2/NDF : 4227870333160.3/16
Right Out: 402.796+/-0.000	χ^2/NDF : 3129460217421.3/19	In: 402.666+/-0.000	χ^2/NDF : 3430247694143.9/39
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.535+/-0.000	χ^2/NDF : 5488106283598.1/47
		All: 402.597+/-0.000	χ^2/NDF : 891863668814.0/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9127939.0/16

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 9811287.7/19

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

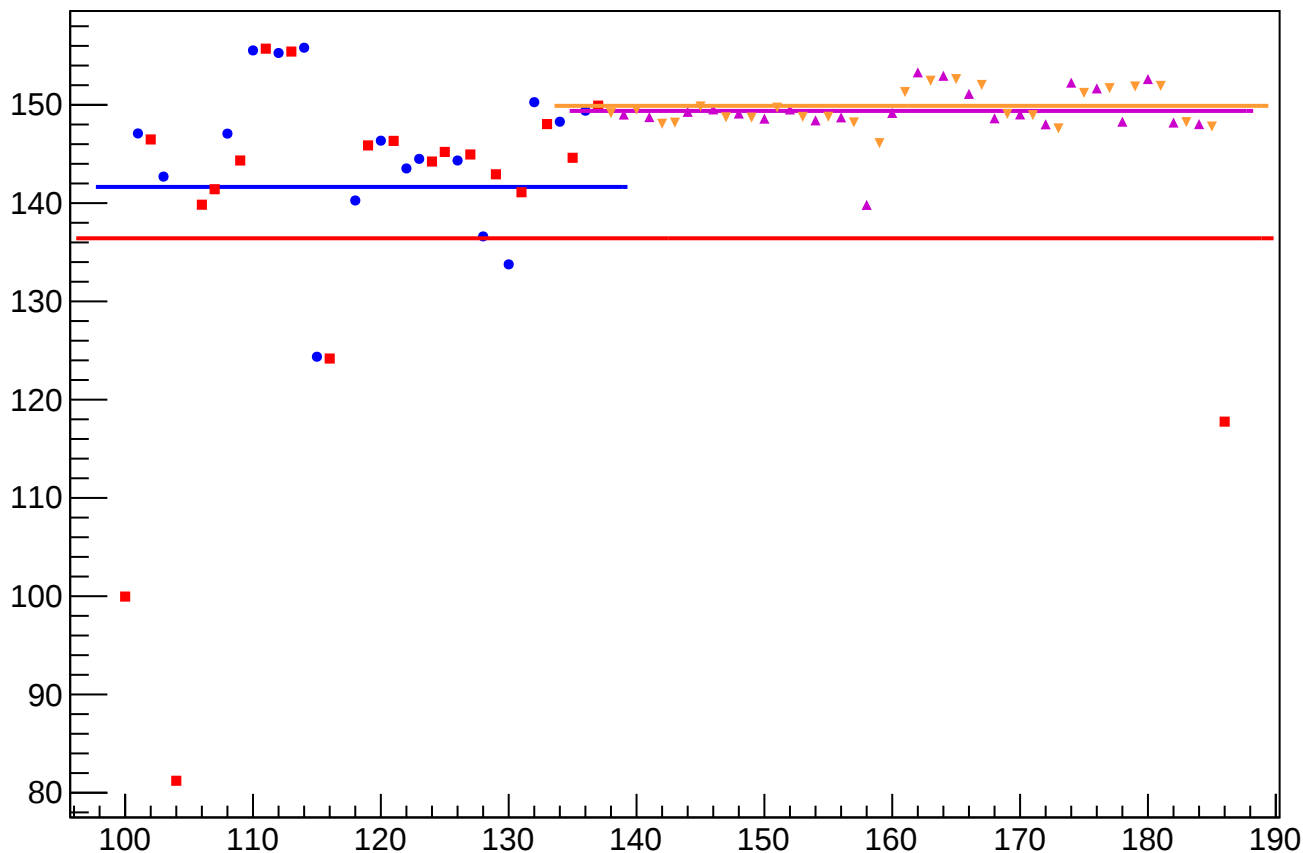
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 18939226.9/36

In: 0.007 $\pm$ 0.000 χ^2 /NDF:36217719.9/39

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:38510233.8/44

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 74728084.6/84

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.649 $\pm$ 0.000 χ^2 /NDF: 978960977.0/16

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 136.422 $\pm$ 0.000 χ^2 /NDF: 1552130628.5/19

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000 χ^2 /NDF: 604081739.6/47

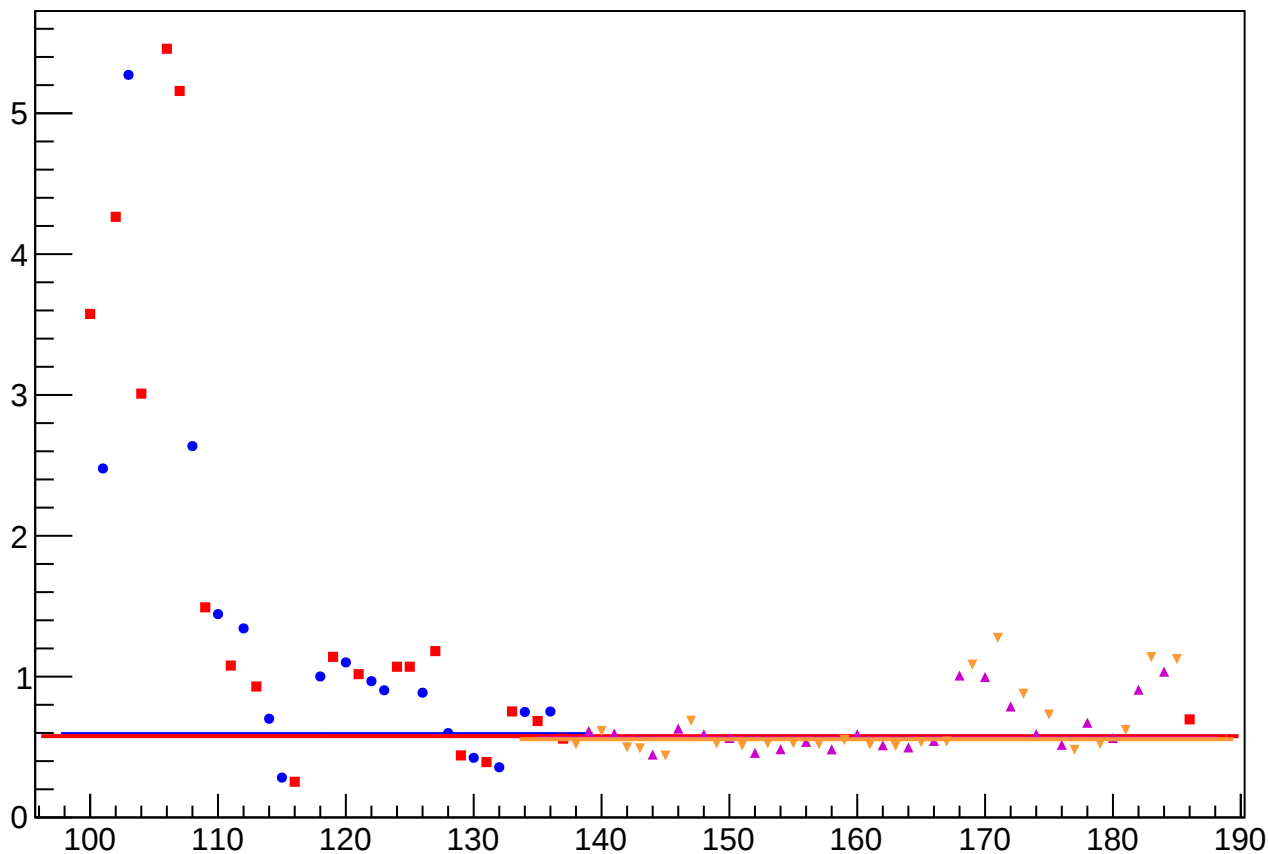
Right: 138.908 $\pm$ 0.000 χ^2 /NDF: 2675700108.8/36

In: 148.021 $\pm$ 0.000 χ^2 /NDF: 1911161711.4/39

Out: 147.476 $\pm$ 0.000 χ^2 /NDF: 3372919259.5/44

All: 147.738 $\pm$ 0.000 χ^2 /NDF: 5292926924.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3518726.1/16

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.577 $\pm$ 0.000 χ^2 /NDF: 4664067.9/19

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3081194.0/47

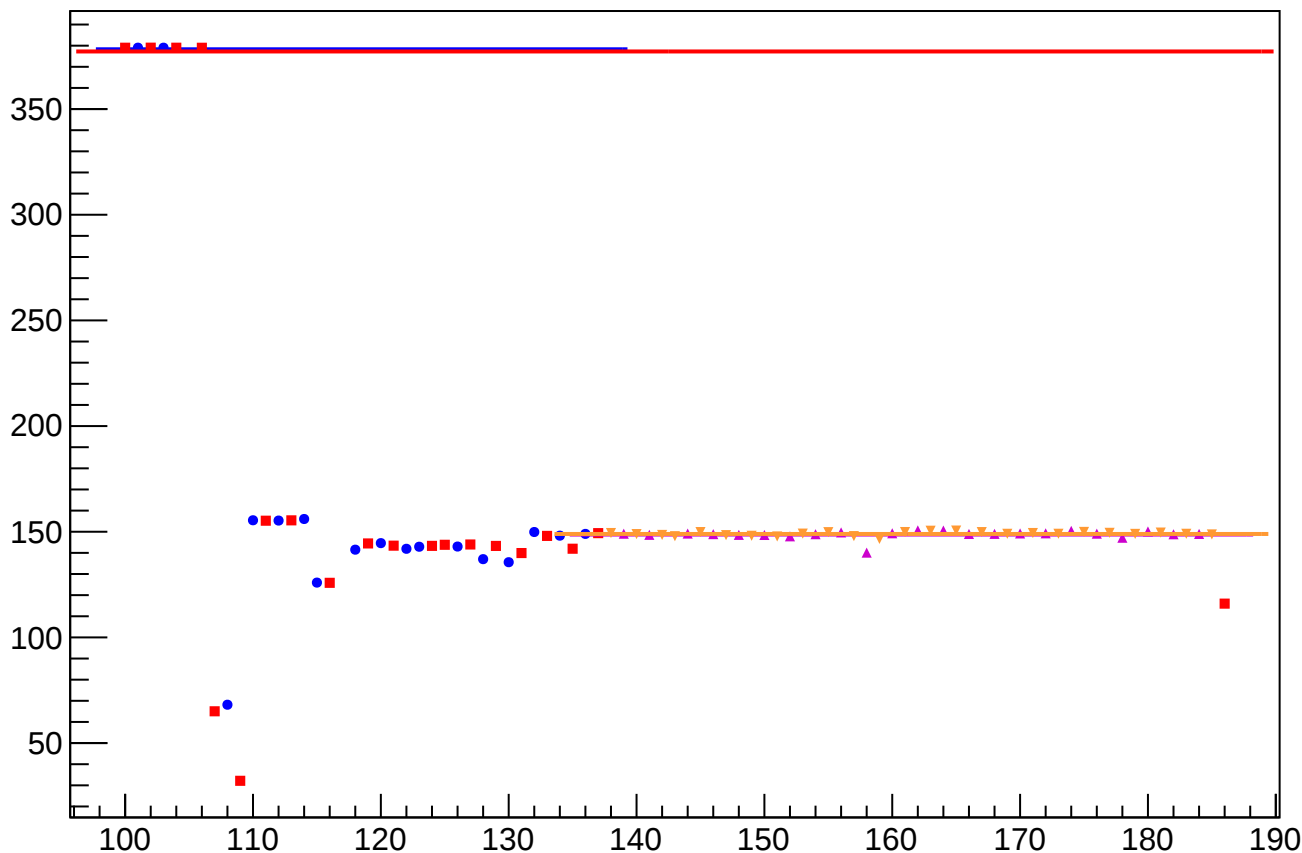
Right: 0.584 $\pm$ 0.000 χ^2 /NDF: 8184998.4/36

In: 0.567 $\pm$ 0.000 χ^2 /NDF:4839167.9/39

Out: 0.559 $\pm$ 0.000 χ^2 /NDF:6446387.8/44

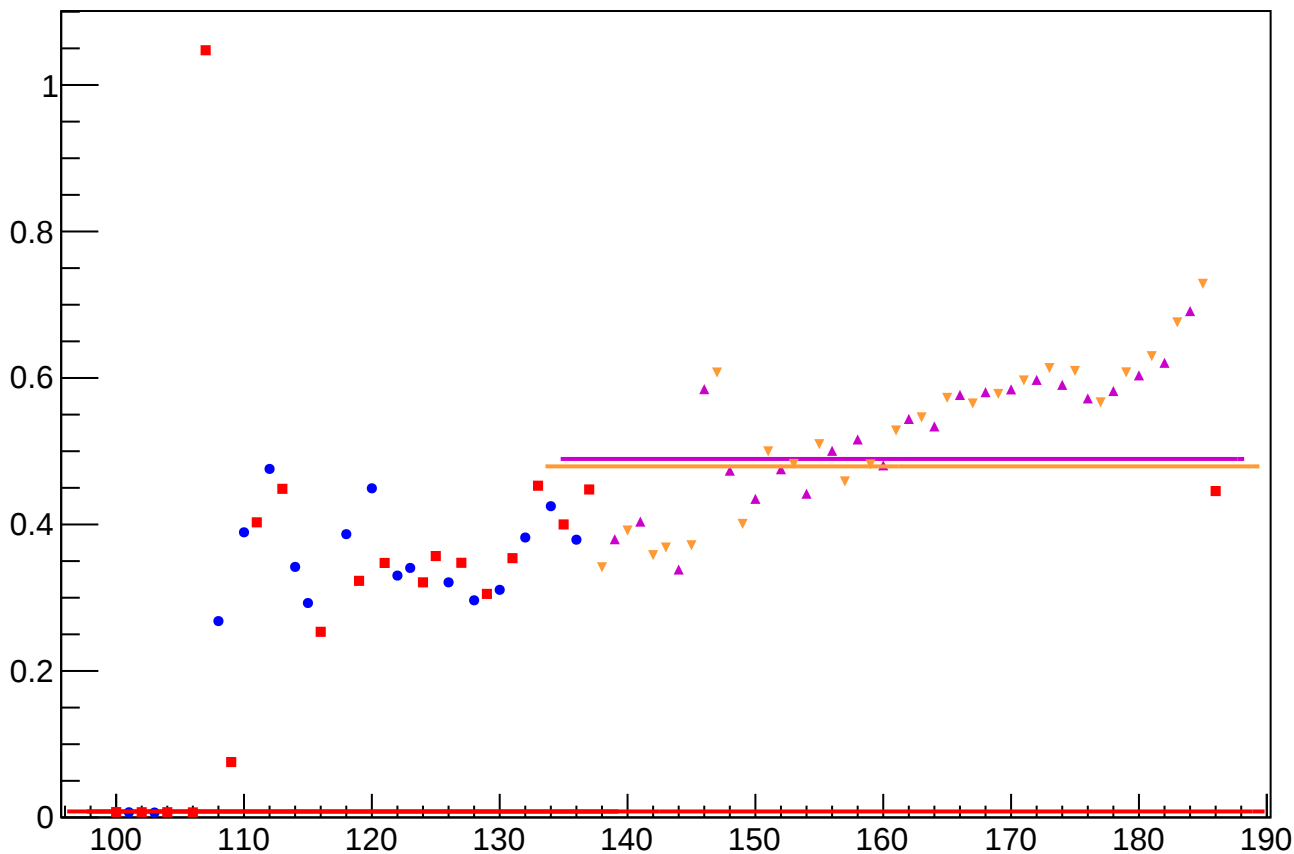
All: 0.563 $\pm$ 0.000 χ^2 /NDF: 11289023.4/84

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.288+/-0.000	χ^2/NDF : 2492505563660.4/16	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.739+/-0.000	χ^2/NDF : 10902182890148.1
Right Out: 377.258+/-0.000	χ^2/NDF : 8402164295905.2/19	In: 377.114+/-0.000	χ^2/NDF : 6080397382921.3/39
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 376.141+/-0.000	χ^2/NDF : 12277203077385.4
		All: 376.596+/-0.000	χ^2/NDF : 183643567733.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 9842025.8/16

Left Out: 0.479+/-0.000 χ^2/NDF : 1516566.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 10192547.3/19

Left In: 0.489+/-0.000 χ^2/NDF : 1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

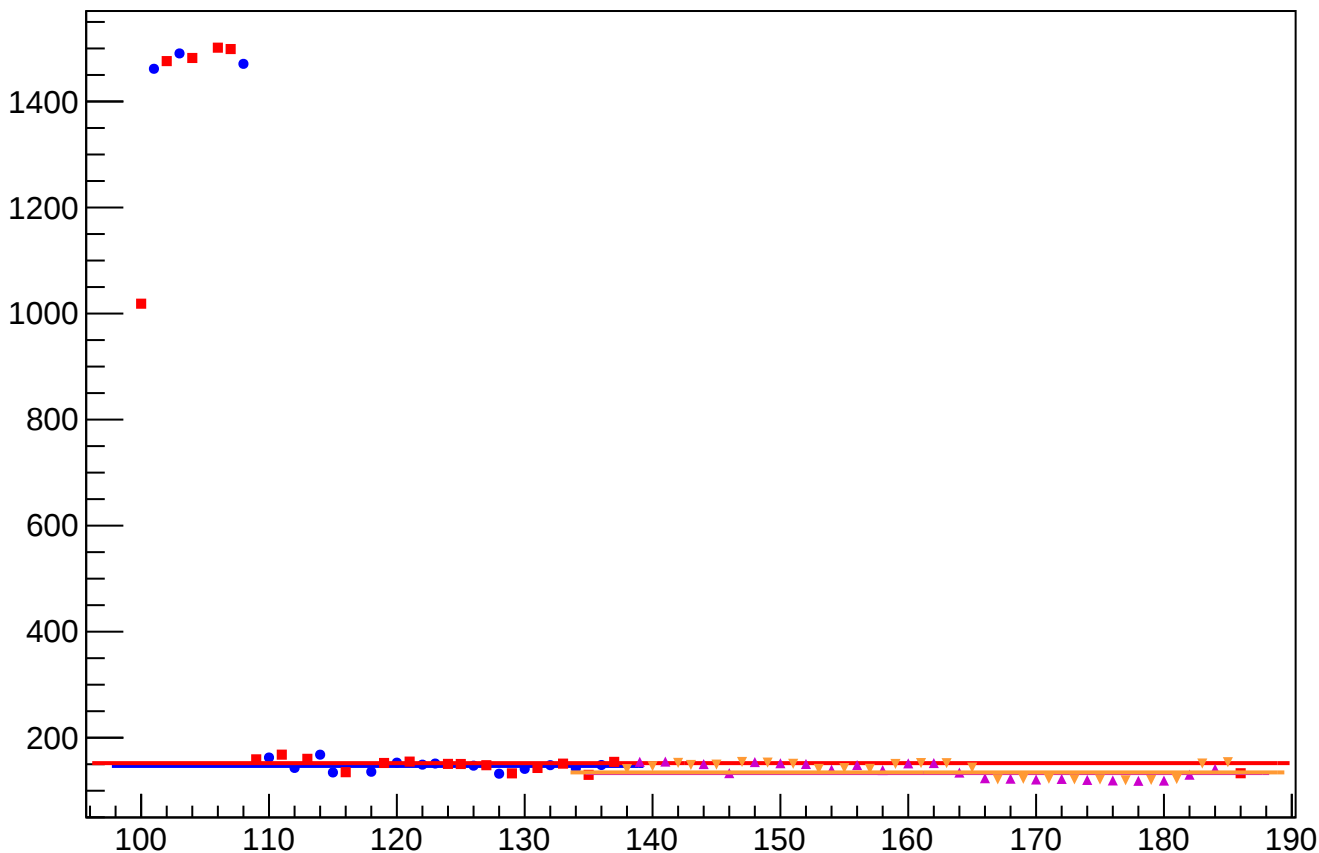
Right: 0.008+/-0.000 χ^2/NDF : 20034654.8/36

In: 0.011+/-0.000 χ^2/NDF : 42450195.1/39

Out: 0.010+/-0.000 χ^2/NDF : 44706063.4/44

All: 0.011+/-0.000 χ^2/NDF : 87156344.2/84

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.782 $\pm$ 0.000 χ^2 /NDF: 24345208780.4/16

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 152.060 $\pm$ 0.000 χ^2 /NDF: 33959063459.9/19

Left In: 133.337 $\pm$ 0.000 χ^2 /NDF: 4303812119.2/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8697951676.8/47

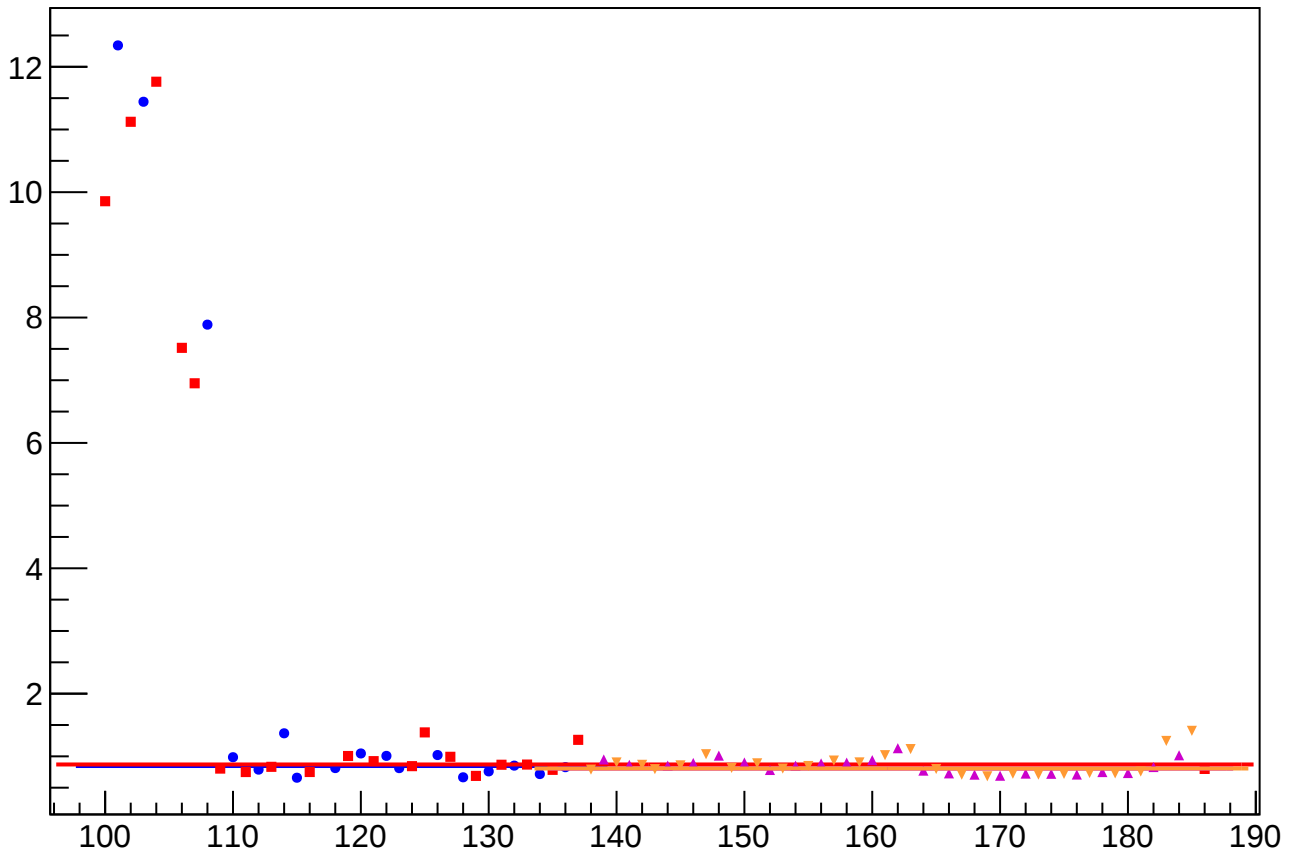
Right: 149.518 $\pm$ 0.000 χ^2 /NDF: 58381191548.5/36

In: 135.889 $\pm$ 0.000 χ^2 /NDF: 29429120581.8/39

Out: 137.962 $\pm$ 0.000 χ^2 /NDF: 39751024363.9/44

All: 136.950 $\pm$ 0.000 χ^2 /NDF: 69241923311.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.846 $\pm$ 0.000 χ^2 /NDF: 2658649.7/16

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.870 $\pm$ 0.000 χ^2 /NDF: 2831470.9/19

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

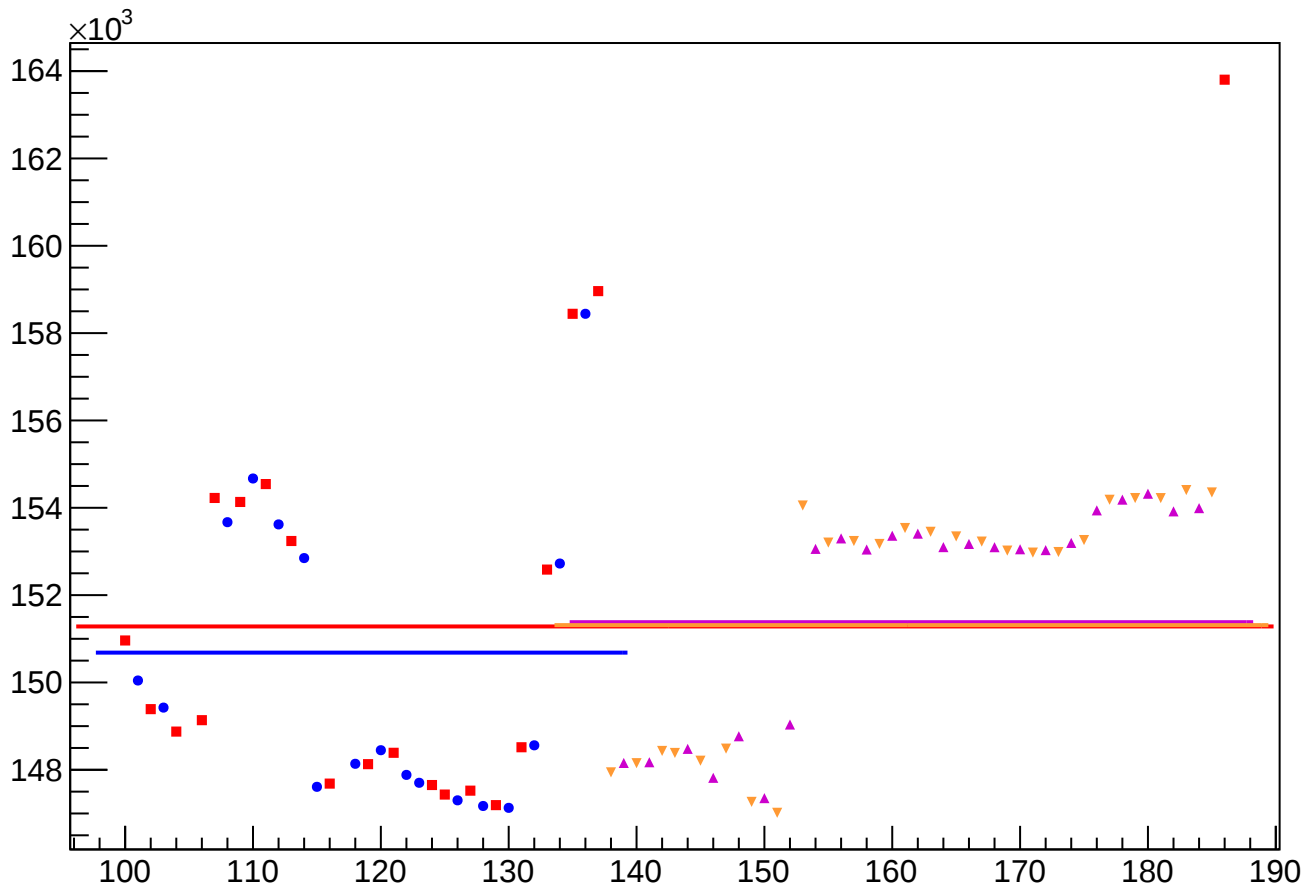
Right: 0.858 $\pm$ 0.000 χ^2 /NDF: 5493481.9/36

In: 0.813 $\pm$ 0.000 χ^2 /NDF:3153585.6/39

Out: 0.819 $\pm$ 0.000 χ^2 /NDF:3560114.3/44

All: 0.816 $\pm$ 0.000 χ^2 /NDF: 6714765.7/84

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150683.304 $\pm$ 0.063

χ^2 /NDF: 3299311261.5/16

Left Out: 151313.284 $\pm$ 0.049

χ^2 /NDF: 3153768134.8/24

Right Out: 151282.628 $\pm$ 0.059

χ^2 /NDF: 3997866554.1/19

Left In: 151380.236 $\pm$ 0.051

χ^2 /NDF: 2363895785.3/22

Left: 151345.082 $\pm$ 0.035

χ^2 /NDF: 5518562148.3/4

Right: 151001.778 $\pm$ 0.043

χ^2 /NDF: 7345123908.0/4

In: 151103.592 $\pm$ 0.040

χ^2 /NDF: 5736786186.6/39

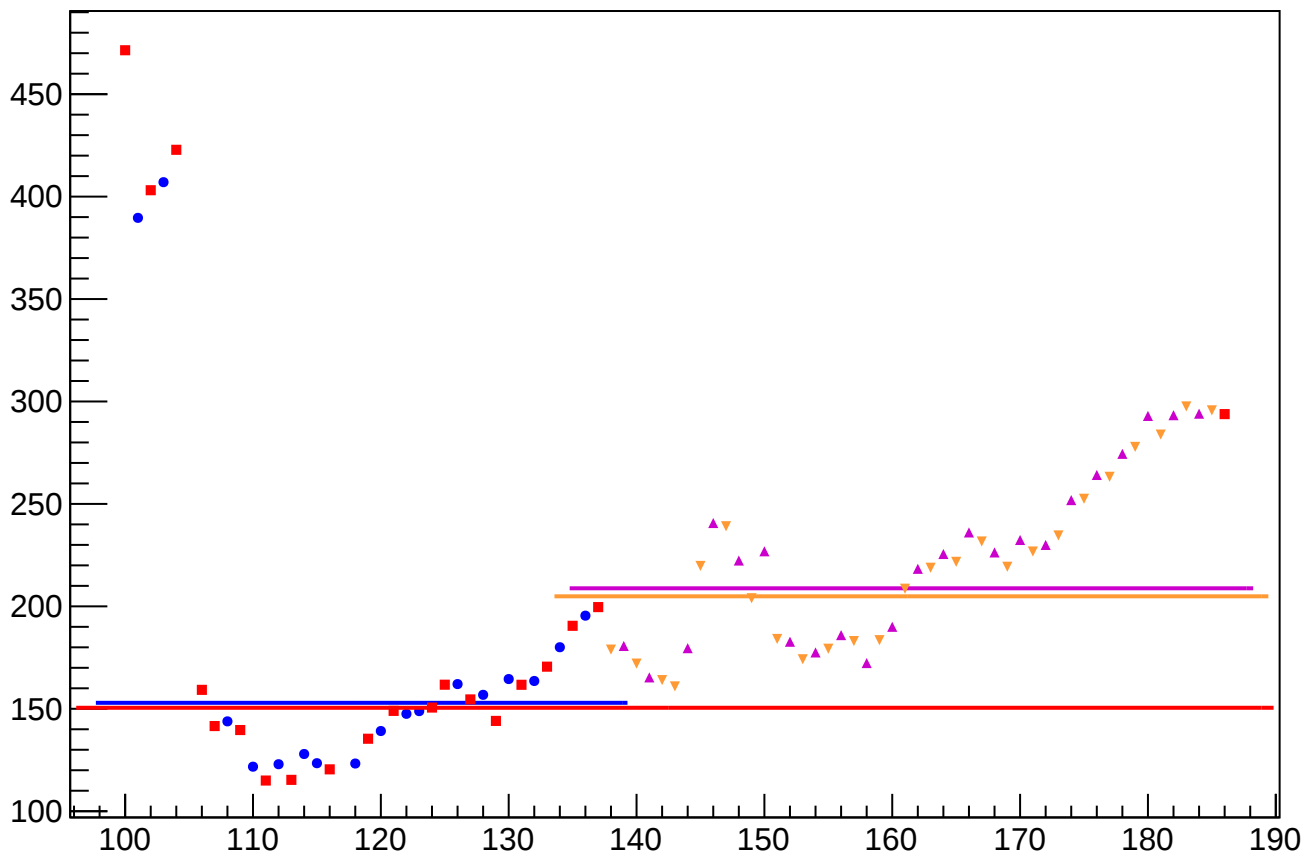
Out: 151300.929 $\pm$ 0.038

χ^2 /NDF: 7151794495.3/4

All: 151207.706 $\pm$ 0.027

χ^2 /NDF: 129015825

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.916 $\pm$ 0.045 χ^2 /NDF: 1154367.4/16

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 150.493 $\pm$ 0.042 χ^2 /NDF: 1372589.5/19

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

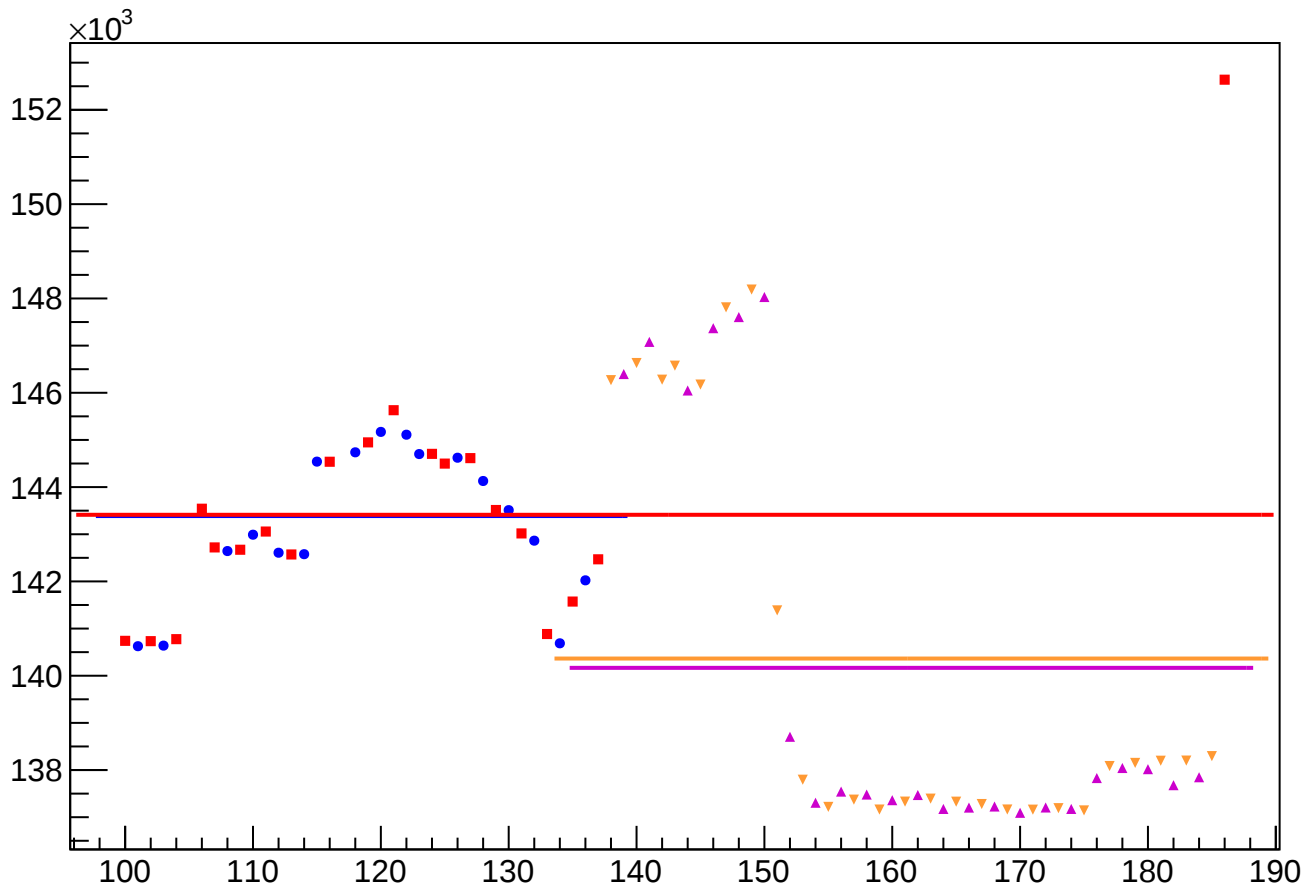
Right: 151.629 $\pm$ 0.031 χ^2 /NDF: 2528523.7/36

In: 186.625 $\pm$ 0.028 χ^2 /NDF:3102926.5/39

Out: 182.972 $\pm$ 0.027 χ^2 /NDF:3435658.7/44

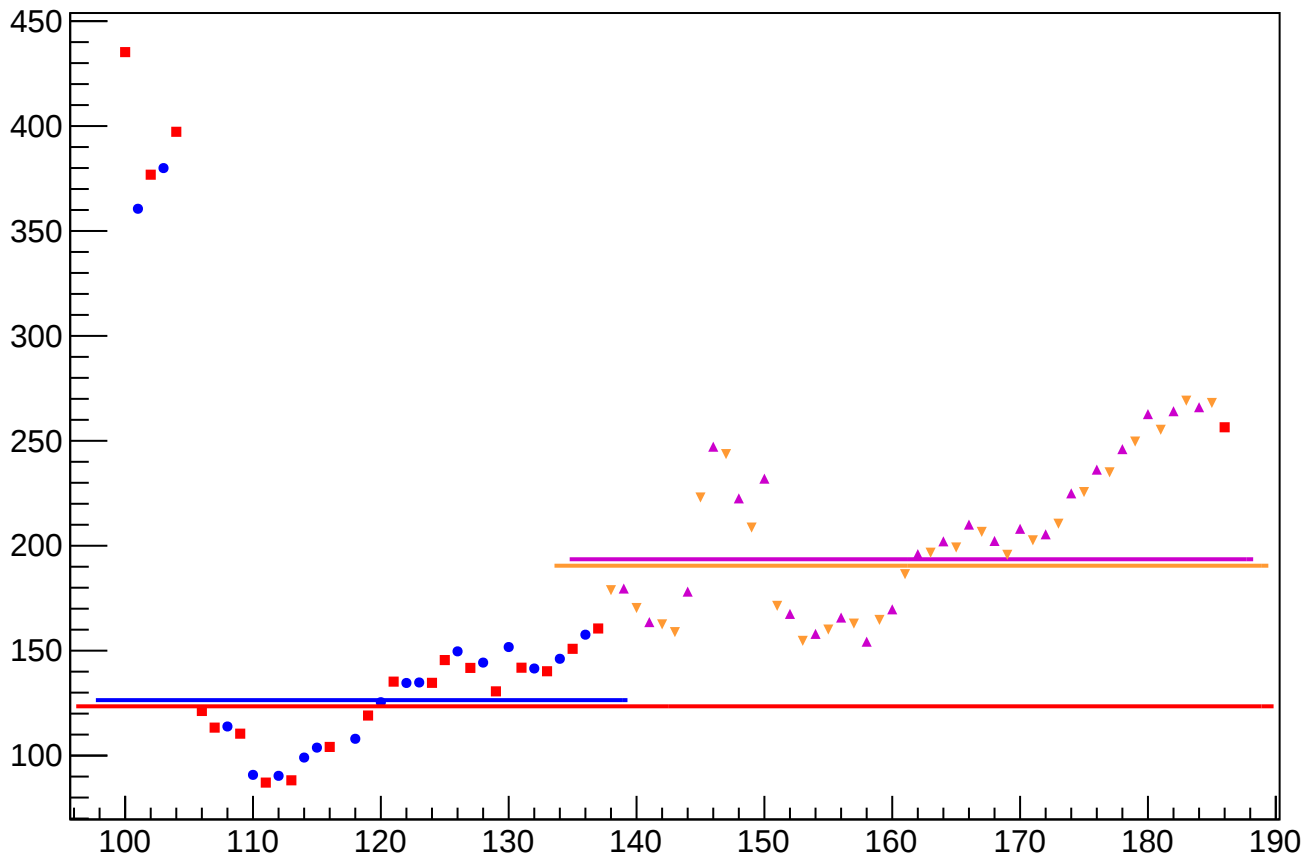
All: 184.698 $\pm$ 0.019 χ^2 /NDF: 6547494.1/84

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143385.822 $\pm$ 0.053 χ^2 /NDF: 520518329.3/16
 Left Out: 140364.444 $\pm$ 0.045 χ^2 /NDF: 8677078677.7/24
 Right Out: 143412.651 $\pm$ 0.049 χ^2 /NDF: 1106513459.0/19
 Left In: 140166.971 $\pm$ 0.047 χ^2 /NDF: 8028464654.6/22
 Left: 140270.460 $\pm$ 0.033 χ^2 /NDF: 16714620354.4
 Right: 143400.297 $\pm$ 0.036 χ^2 /NDF: 1627171123.3
 In: 141605.279 $\pm$ 0.035 χ^2 /NDF: 10605306380.5/3
 Out: 141773.418 $\pm$ 0.033 χ^2 /NDF: 11884099311.6
 All: 141694.577 $\pm$ 0.024 χ^2 /NDF: 225014614

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.427 $\pm$ 0.037 χ^2 /NDF: 1442156.7/16

Left Out: 190.486 $\pm$ 0.032 χ^2 /NDF: 950233.2/24

Right Out: 123.480 $\pm$ 0.034 χ^2 /NDF: 1665440.9/19

Left In: 193.558 $\pm$ 0.034 χ^2 /NDF: 963675.0/22

Left: 191.948 $\pm$ 0.023 χ^2 /NDF: 1918302.4/47

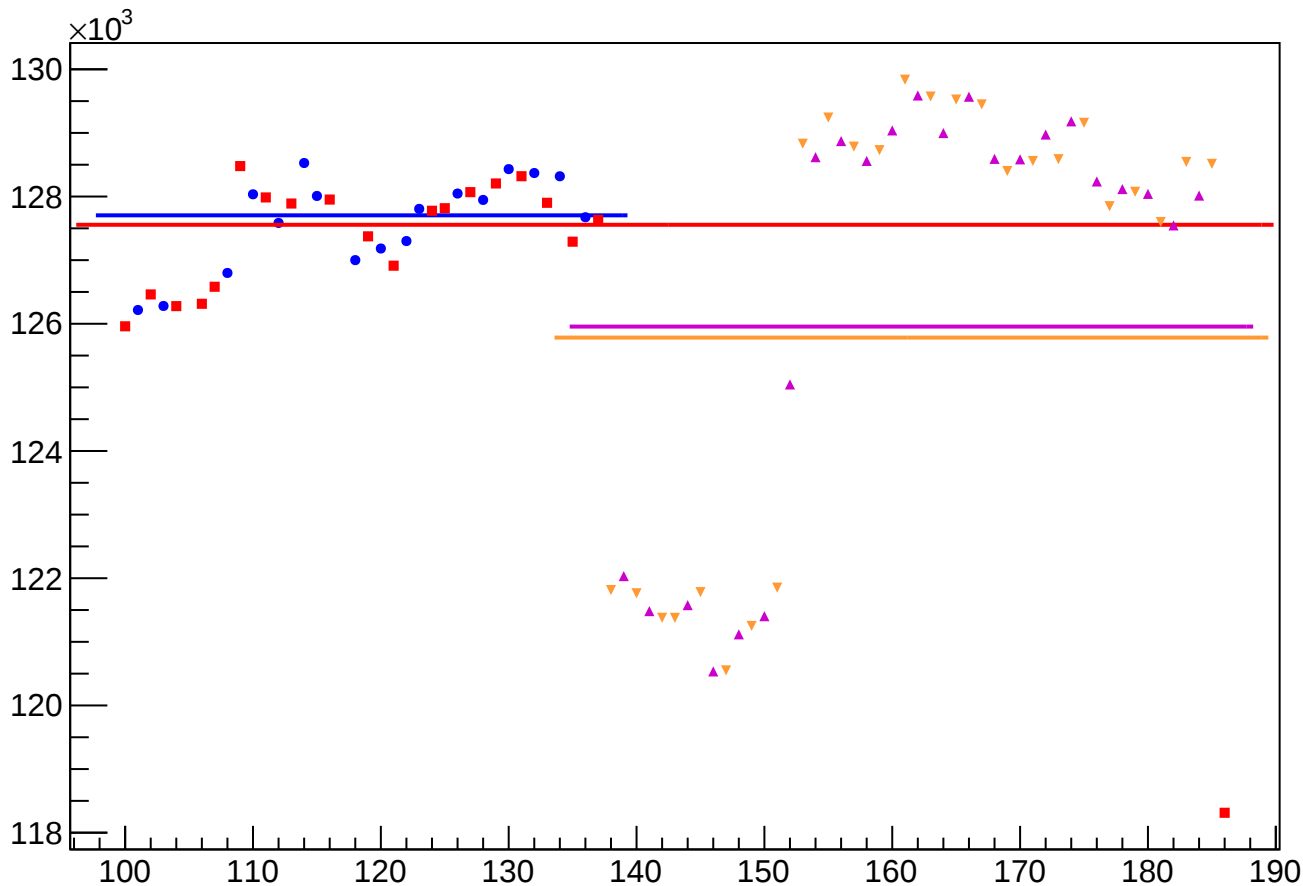
Right: 124.837 $\pm$ 0.025 χ^2 /NDF: 3110961.8/36

In: 163.562 $\pm$ 0.025 χ^2 /NDF: 4194638.5/39

Out: 159.514 $\pm$ 0.023 χ^2 /NDF: 4645677.3/44

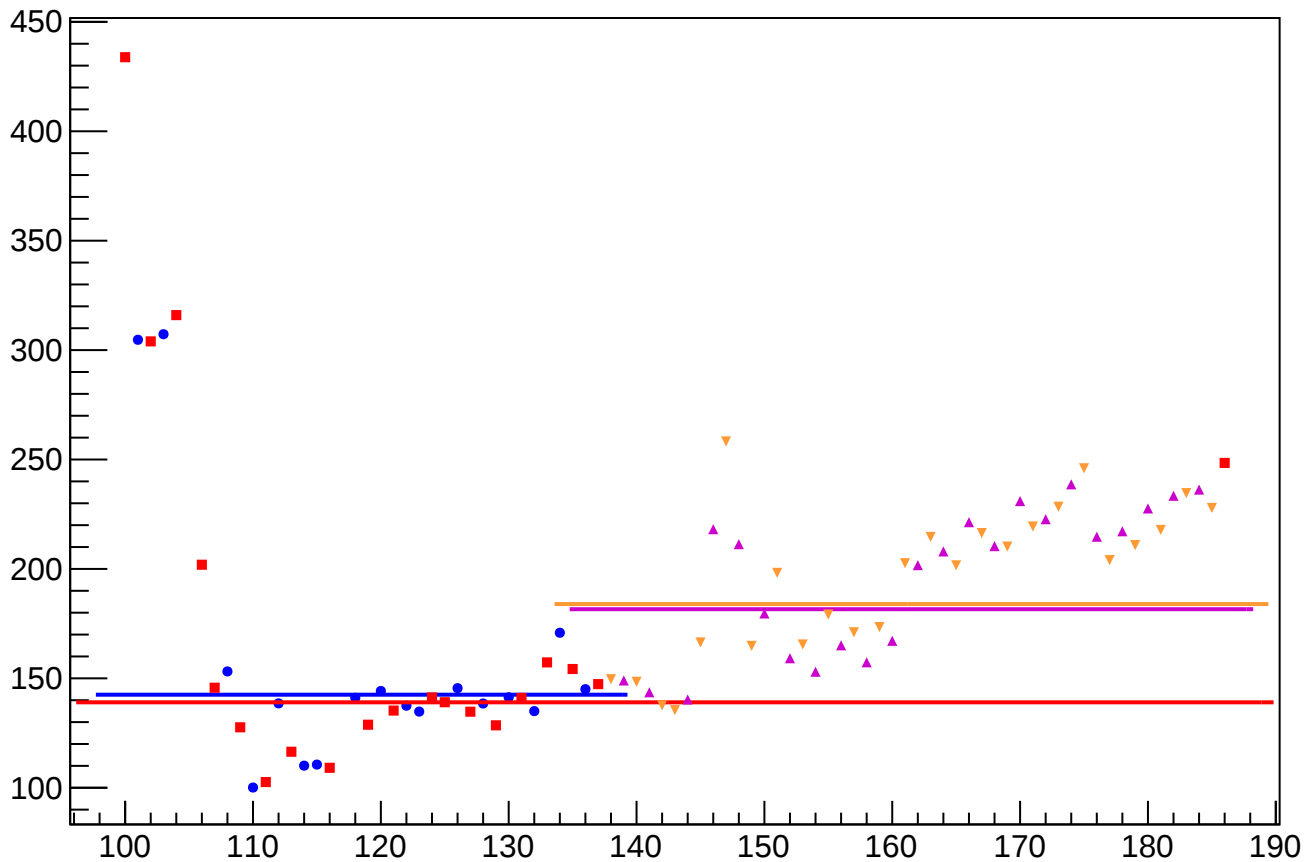
All: 161.412 $\pm$ 0.017 χ^2 /NDF: 8854291.2/84

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127704.536 $\pm$ 0.058	χ^2/NDF : 97614287.1/16	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/16
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 127624.767 $\pm$ 0.040	χ^2/NDF : 746374571.8/3
Right Out: 127555.886 $\pm$ 0.054	χ^2/NDF : 645256687.1/19	In: 126606.791 $\pm$ 0.035	χ^2/NDF : 6468962850.1/39
Left In: 125955.637 $\pm$ 0.045	χ^2/NDF : 5804088930.1/22	Out: 126489.383 $\pm$ 0.034	χ^2/NDF : 8022088760.0/4
		All: 126545.777 $\pm$ 0.025	χ^2/NDF : 144967365.0/10

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.524 $\pm$ 0.041 χ^2 /NDF: 836220.9/16

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF:1123194.0/24

Right Out: 139.043 $\pm$ 0.038 χ^2 /NDF: 1105720.1/19

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

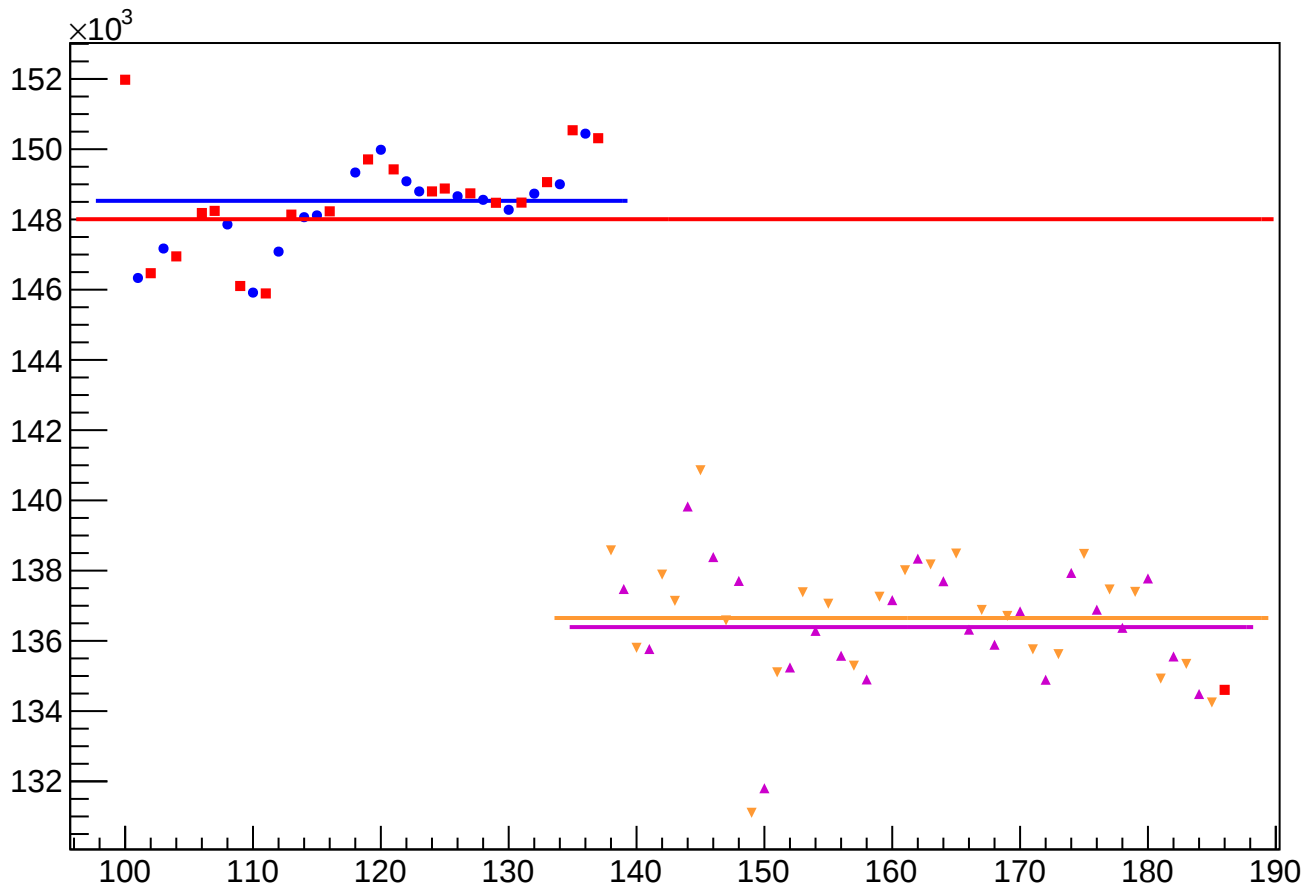
Right: 140.656 $\pm$ 0.028 χ^2 /NDF: 1945784.4/36

In: 167.049 $\pm$ 0.025 χ^2 /NDF:2505985.8/39

Out: 166.052 $\pm$ 0.024 χ^2 /NDF:3058898.4/44

All: 166.531 $\pm$ 0.017 χ^2 /NDF: 5565703.7/84

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148529.735 $\pm$ 0.082 χ^2 /NDF: 209963911.3/16

Left Out: 136650.935 $\pm$ 0.065 χ^2 /NDF: 930649595.5/24

Right Out: 148006.736 $\pm$ 0.076 χ^2 /NDF: 971991863.5/19

Left In: 136392.188 $\pm$ 0.066 χ^2 /NDF: 701986841.4/22

Left: 136524.219 $\pm$ 0.046 χ^2 /NDF: 1640486942.5/4

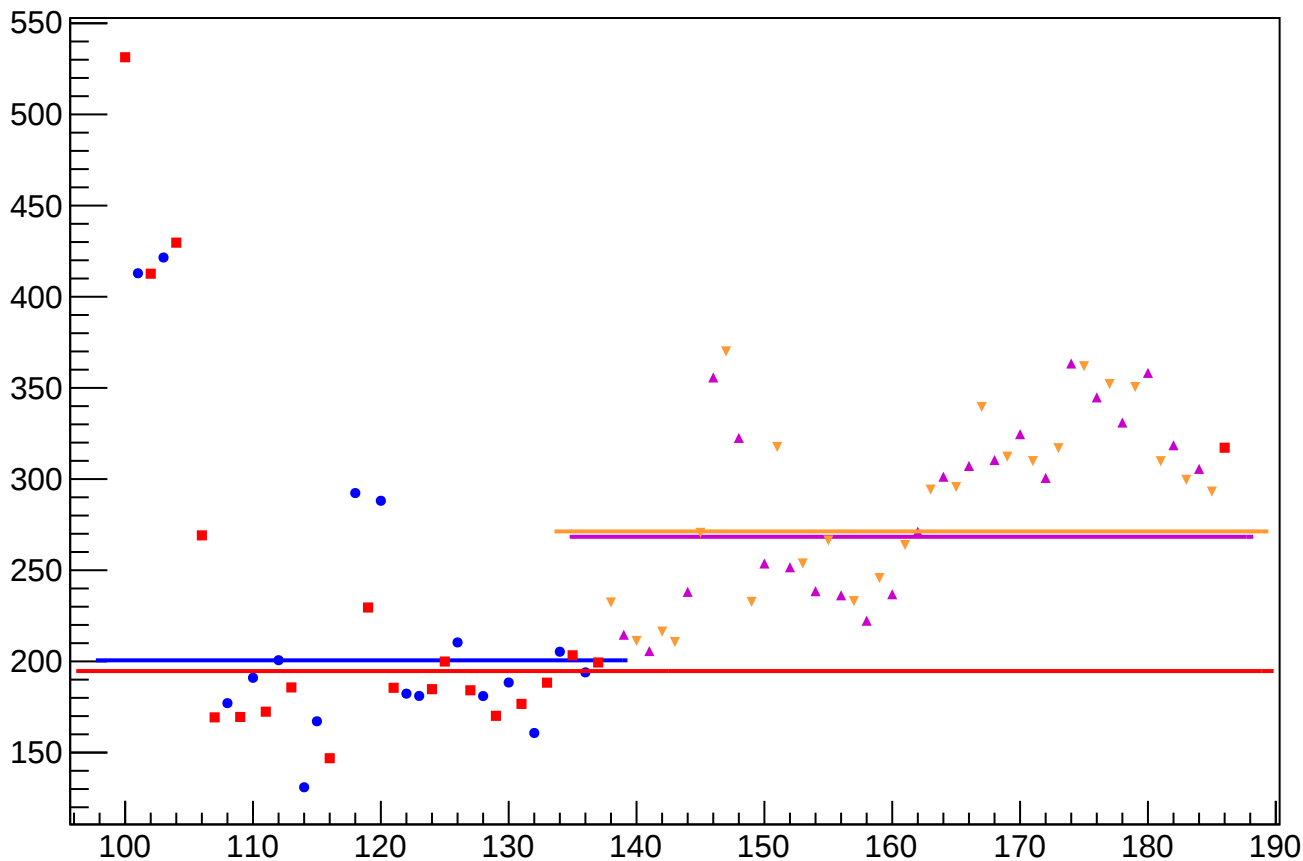
Right: 148246.261 $\pm$ 0.056 χ^2 /NDF: 1203860100.5/4

In: 141142.039 $\pm$ 0.051 χ^2 /NDF: 14160163491.6/3

Out: 141443.763 $\pm$ 0.049 χ^2 /NDF: 14934220434.1

All: 141299.902 $\pm$ 0.036 χ^2 /NDF: 291123667

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.585 $\pm$ 0.058 χ^2 /NDF: 935452.3/16

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF: 1064485.7/24

Right Out: 194.702 $\pm$ 0.053 χ^2 /NDF: 958812.2/19

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF: 1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

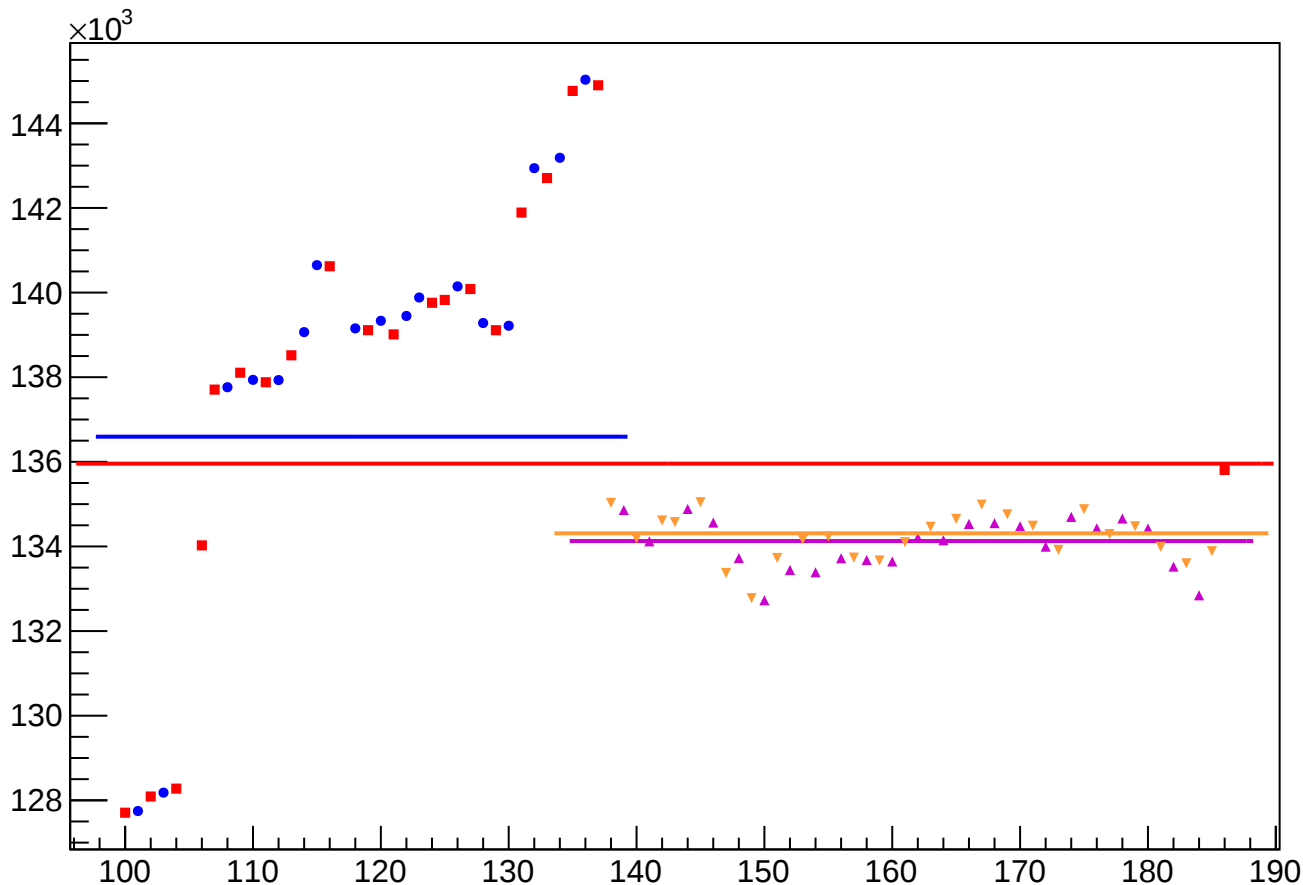
Right: 197.396 $\pm$ 0.039 χ^2 /NDF: 1899807.6/36

In: 241.827 $\pm$ 0.036 χ^2 /NDF: 2838580.2/39

Out: 238.968 $\pm$ 0.035 χ^2 /NDF: 3208994.8/44

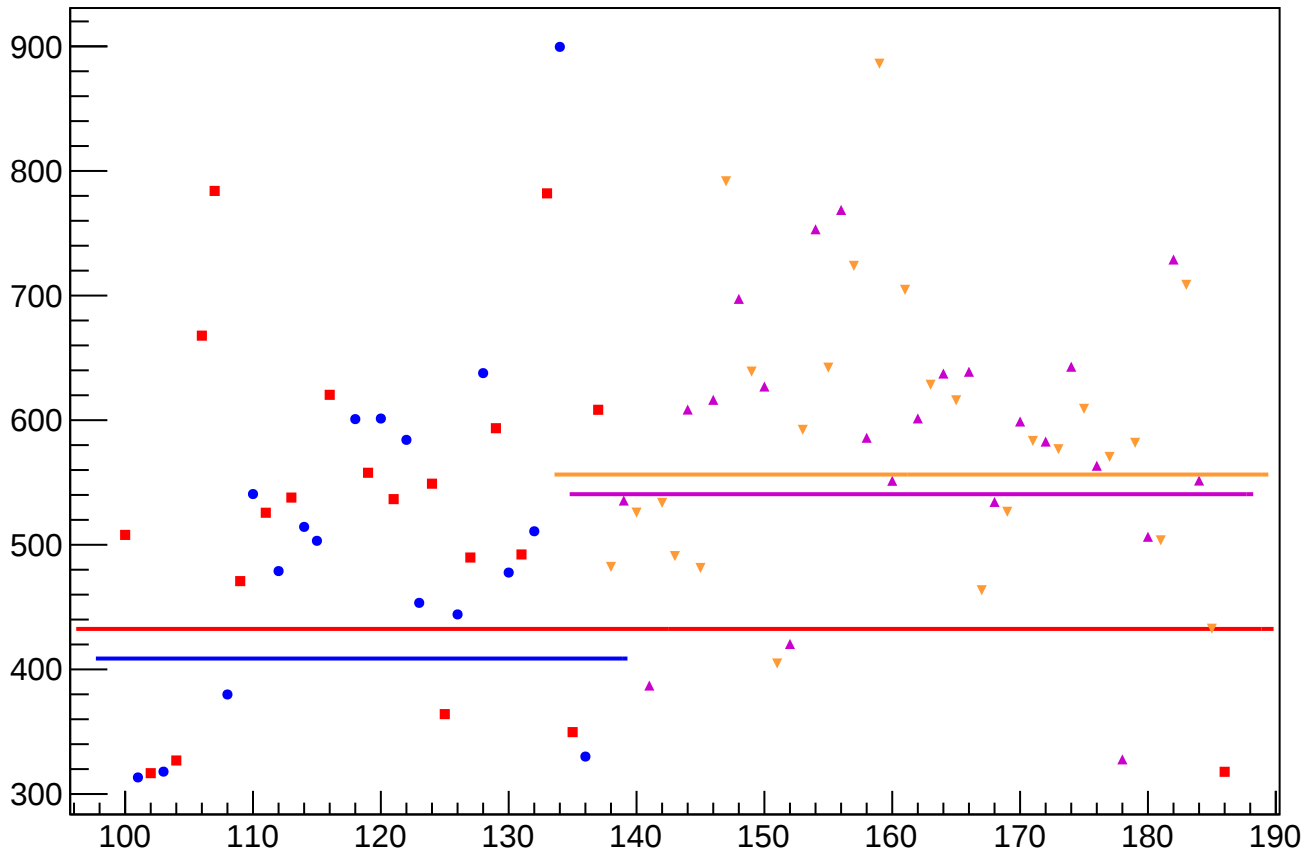
All: 240.331 $\pm$ 0.025 χ^2 /NDF: 6050804.1/84

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136593.896 $\pm$ 0.172	χ^2 /NDF: 1493317567.5/16	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: 136281.160 $\pm$ 0.123	χ^2 /NDF: 2580951841.0/4
Right Out: 135956.953 $\pm$ 0.175	χ^2 /NDF: 1080883657.8/19	In: 135129.018 $\pm$ 0.109	χ^2 /NDF: 1631259474.2/39
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 134945.207 $\pm$ 0.109	χ^2 /NDF: 1150865974.0/4
		All: 135036.409 $\pm$ 0.077	χ^2 /NDF: 278354669.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.721+/-0.121 χ^2/NDF : 830375.0/16

Left Out: 556.381+/-0.098 χ^2/NDF : 1002064.0/24

Right Out: 432.495+/-0.124 χ^2/NDF : 997356.9/19

Left In: 540.607+/-0.100 χ^2/NDF : 1409015.2/22

Left: 548.687+/-0.070 χ^2/NDF : 2423723.9/47

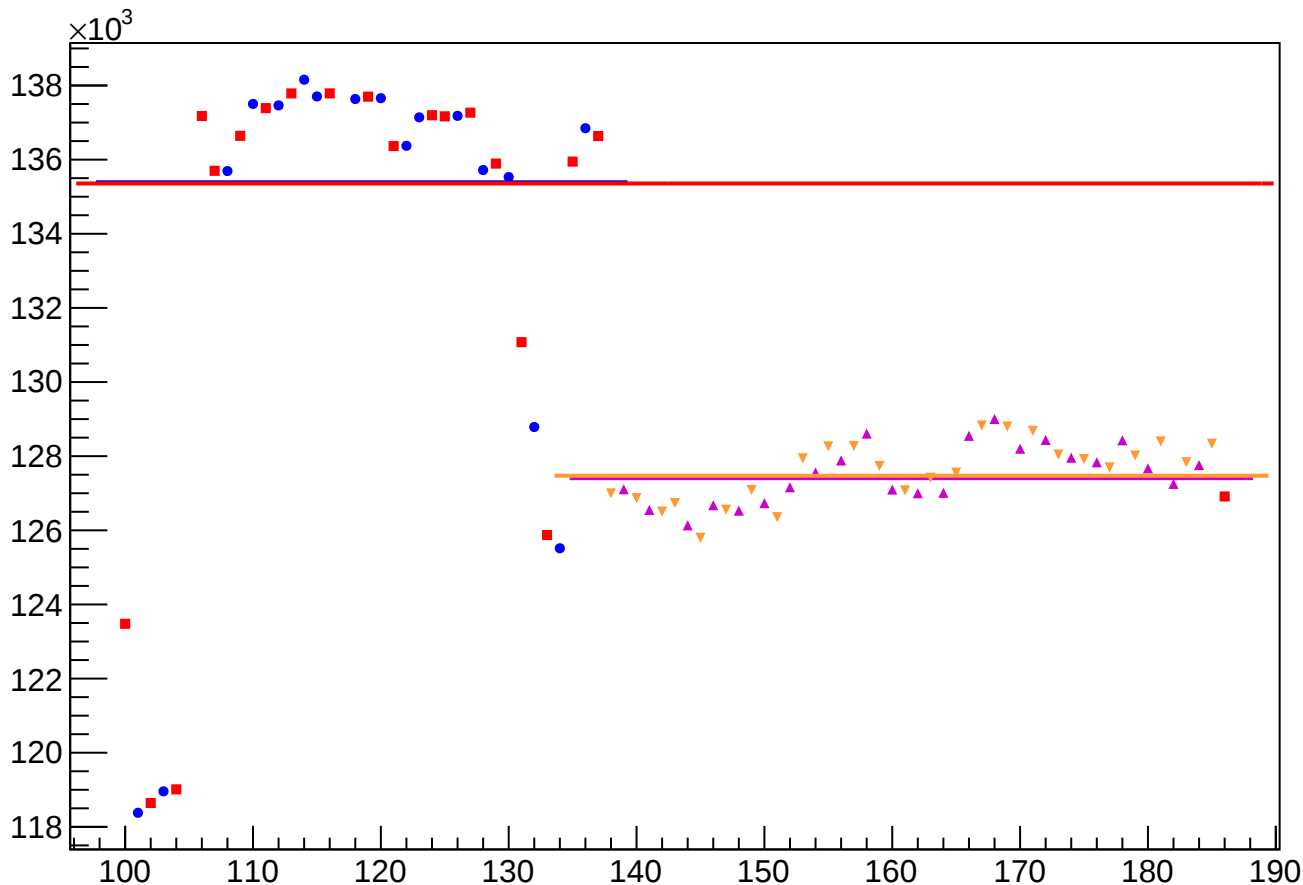
Right: 420.394+/-0.087 χ^2/NDF : 1846541.8/36

In: 487.074+/-0.077 χ^2/NDF : 2939793.0/39

Out: 508.612+/-0.077 χ^2/NDF : 2615947.4/44

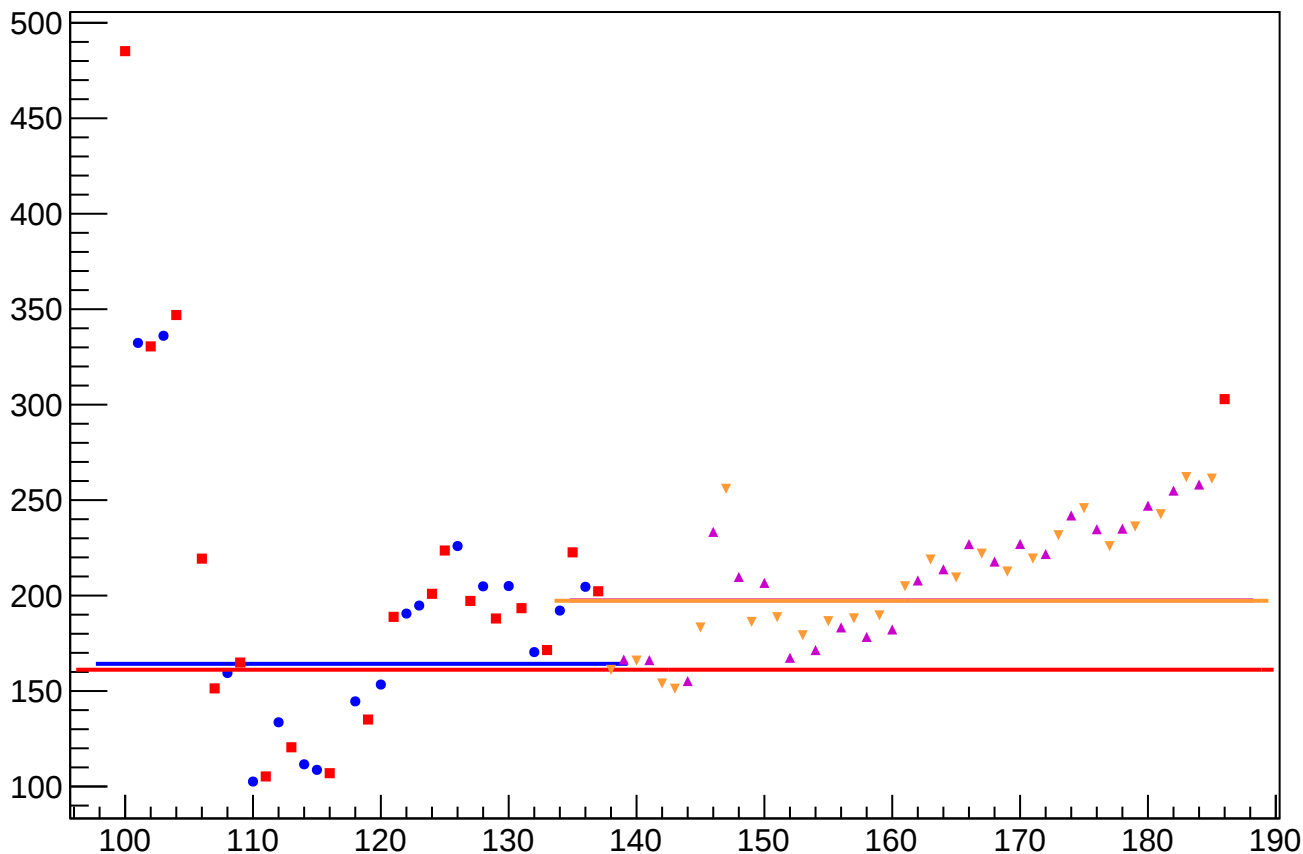
All: 497.925+/-0.055 χ^2/NDF : 5594767.0/84

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135389.443 $\pm$ 0.068	χ^2 /NDF: 4578120272.5/16	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/4
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135372.275 $\pm$ 0.047	χ^2 /NDF: 9607640013.4/
Right Out: 135357.288 $\pm$ 0.064	χ^2 /NDF: 5029401597.9/19	In: 130069.854 $\pm$ 0.039	χ^2 /NDF: 13936116366.8/3
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130231.475 $\pm$ 0.038	χ^2 /NDF: 15241474217.6
		All: 130154.222 $\pm$ 0.027	χ^2 /NDF: 291863386

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.250 $\pm$ 0.048 χ^2 /NDF: 1227814.4/16

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 161.162 $\pm$ 0.045 χ^2 /NDF: 1540795.7/19

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

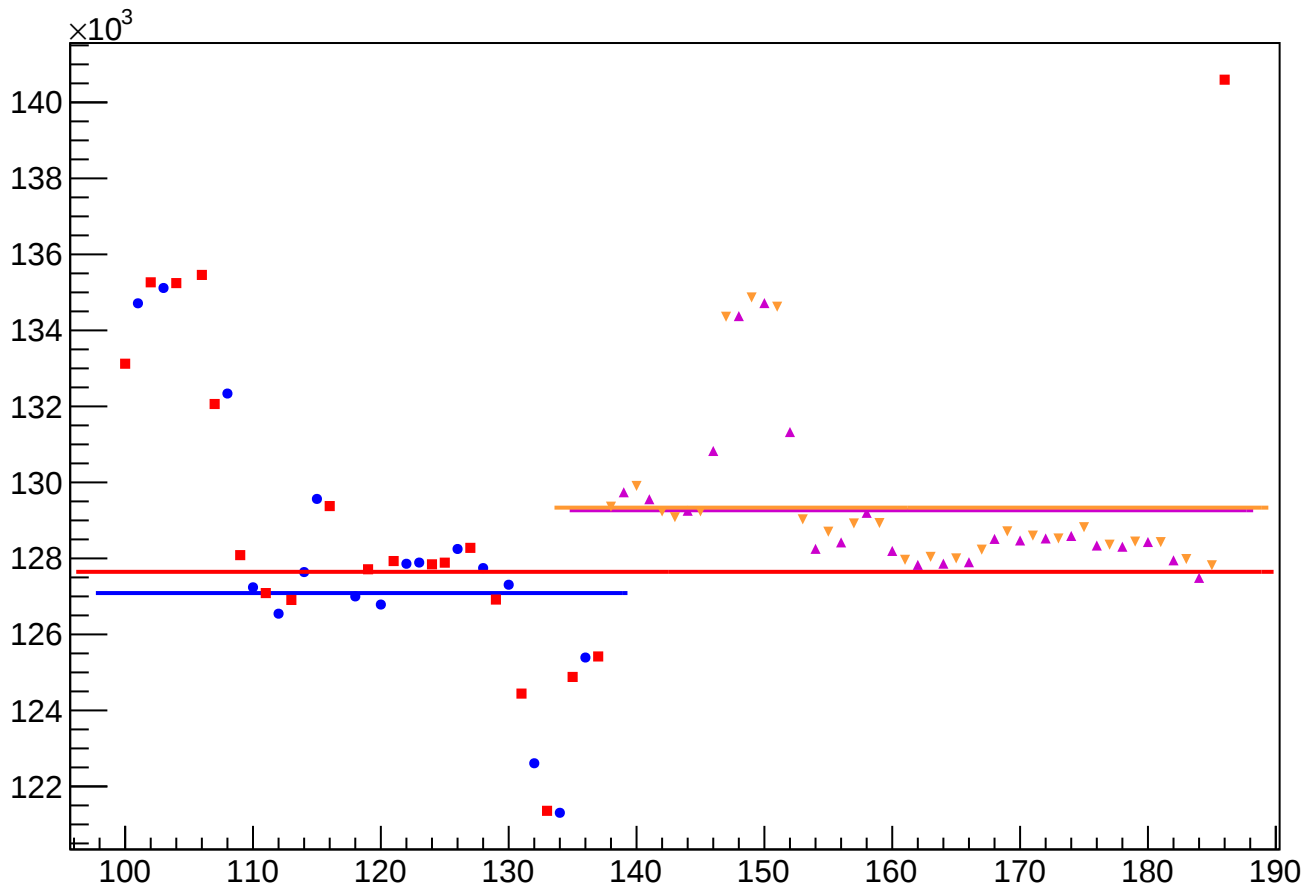
Right: 162.601 $\pm$ 0.033 χ^2 /NDF: 2770789.0/36

In: 186.389 $\pm$ 0.028 χ^2 /NDF: 2334204.3/39

Out: 184.648 $\pm$ 0.027 χ^2 /NDF: 2808853.1/44

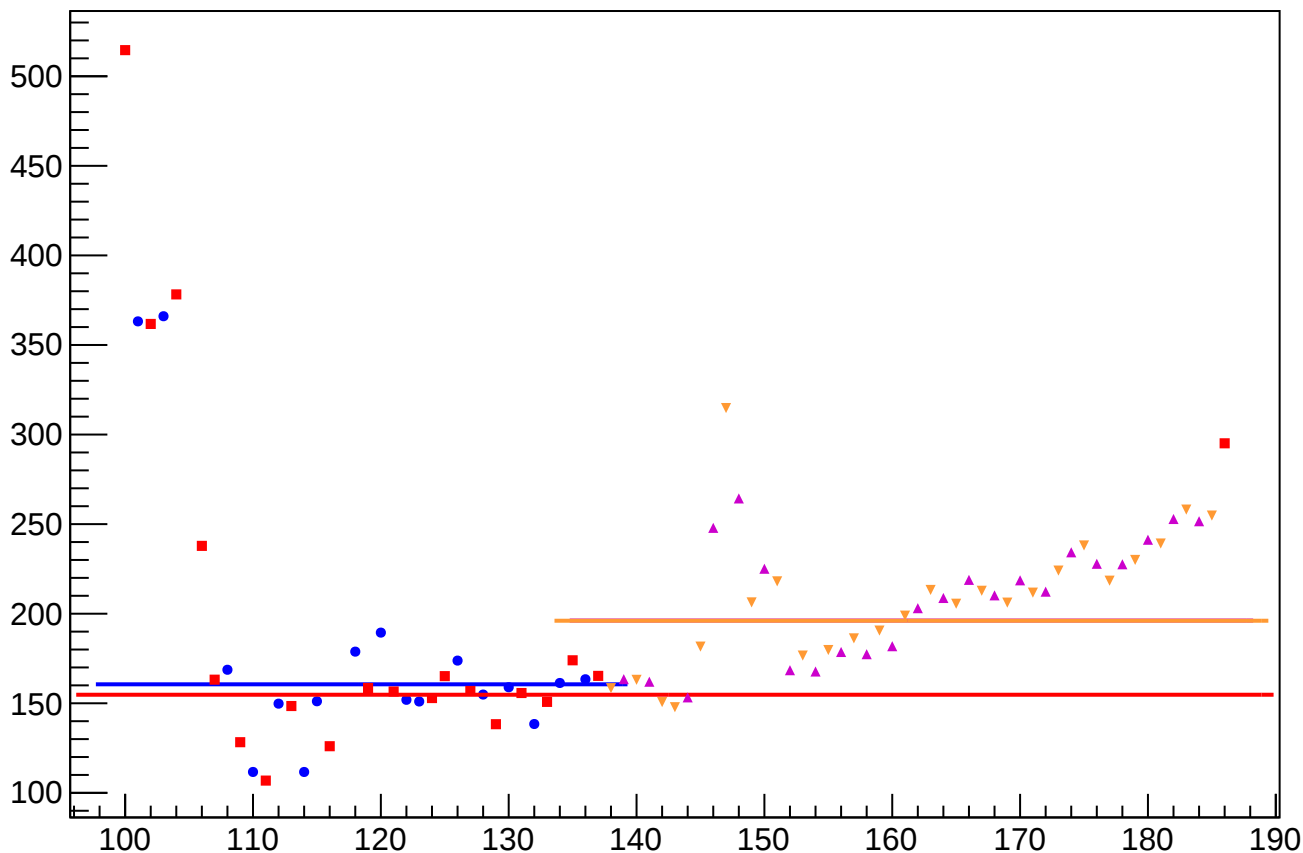
All: 185.480 $\pm$ 0.019 χ^2 /NDF: 5145086.4/84

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127088.167+/-0.066	χ^2/NDF : 1716591601.9/16	Left: 129302.466+/-0.034	χ^2/NDF : 2665755007.2/4
Left Out: 129335.946+/-0.047	χ^2/NDF : 1450933621.0/24	Right: 127391.015+/-0.045	χ^2/NDF : 4578175323.0/4
Right Out: 127646.907+/-0.061	χ^2/NDF : 2823247586.9/19	In: 128516.523+/-0.039	χ^2/NDF : 3635397599.5/39
Left In: 129266.909+/-0.048	χ^2/NDF : 1213762773.1/22	Out: 128712.254+/-0.037	χ^2/NDF : 4756655050.5/4
		All: 128619.220+/-0.027	χ^2/NDF : 840527506.0/10

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.589 $\pm$ 0.047 χ^2 /NDF: 942522.1/16

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 154.766 $\pm$ 0.043 χ^2 /NDF: 1259155.7/19

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

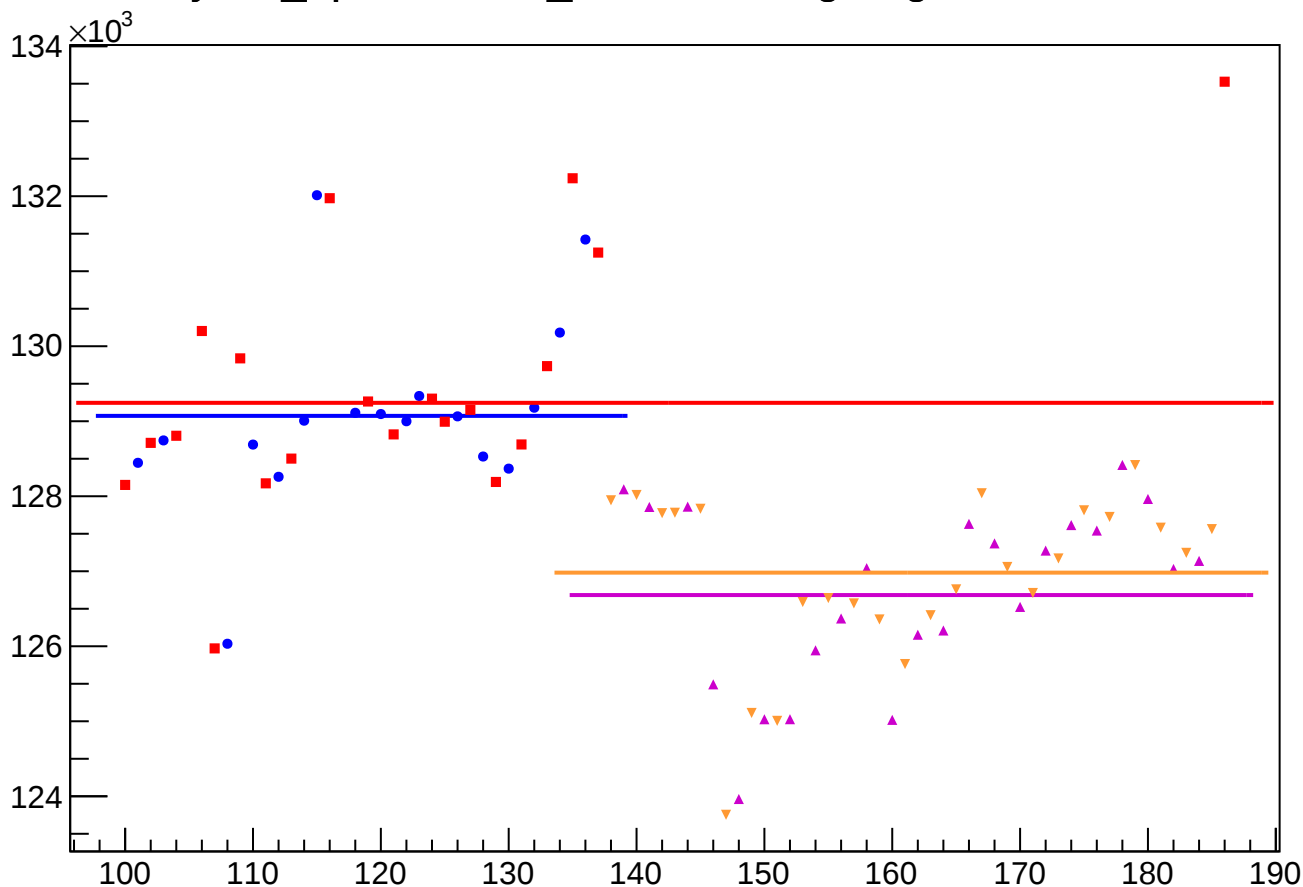
Right: 157.433 $\pm$ 0.032 χ^2 /NDF: 2210003.7/36

In: 183.926 $\pm$ 0.028 χ^2 /NDF: 2217000.3/39

Out: 180.823 $\pm$ 0.026 χ^2 /NDF: 2812110.6/44

All: 182.298 $\pm$ 0.019 χ^2 /NDF: 5035757.5/84

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129071.617 $\pm$ 0.060 χ^2 /NDF: 476291091.1/16

Left Out: 126981.724 $\pm$ 0.046 χ^2 /NDF: 530573115.8/24

Right Out: 129245.504 $\pm$ 0.056 χ^2 /NDF: 712330504.6/19

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

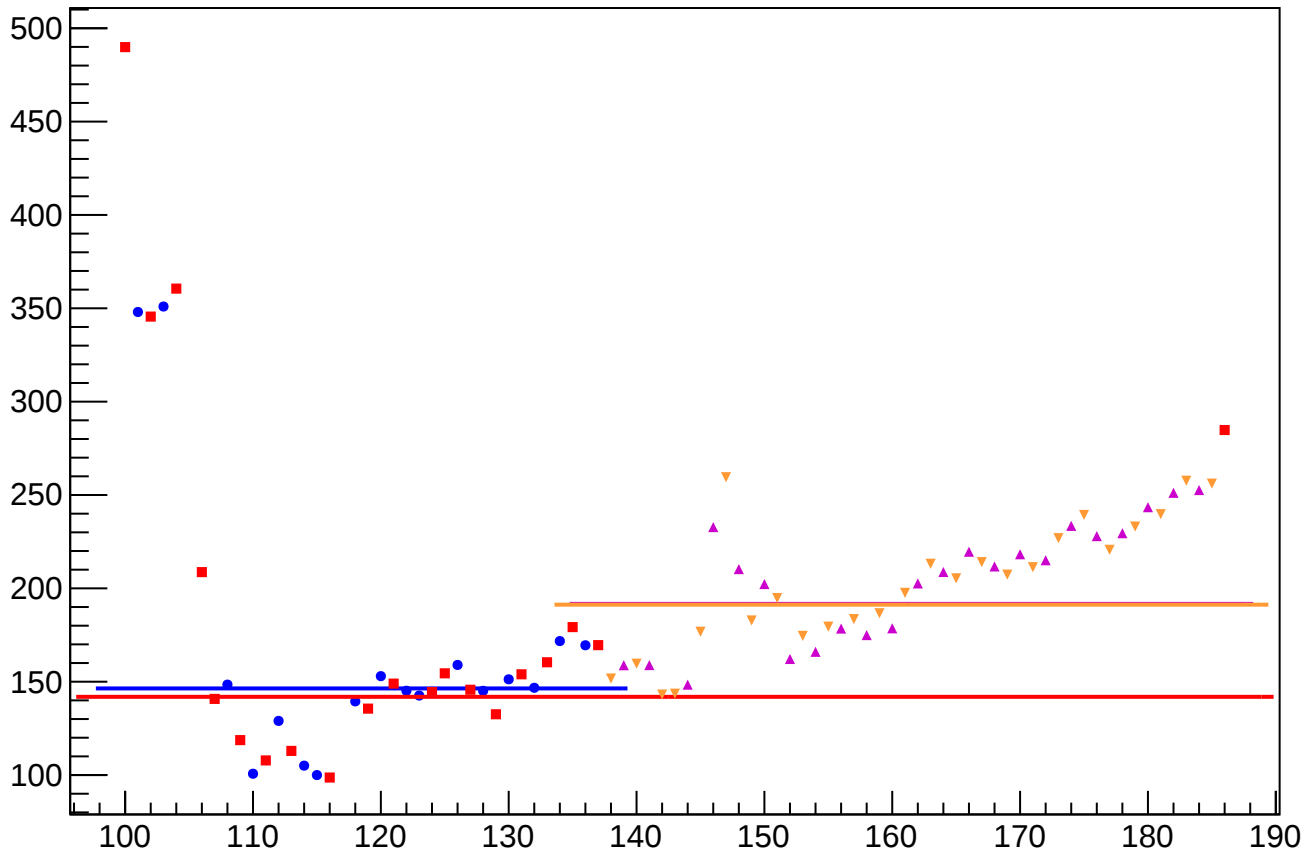
Right: 129165.380 $\pm$ 0.041 χ^2 /NDF: 1193109609.9/16

In: 127585.833 $\pm$ 0.037 χ^2 /NDF: 2113757154.9/39

Out: 127887.943 $\pm$ 0.035 χ^2 /NDF: 2232853533.3/40

All: 127744.434 $\pm$ 0.026 χ^2 /NDF: 438149765.0/100

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.401 $\pm$ 0.043 χ^2 /NDF: 1066973.0/16

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF:992566.2/24

Right Out: 141.897 $\pm$ 0.039 χ^2 /NDF: 1394525.6/19

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

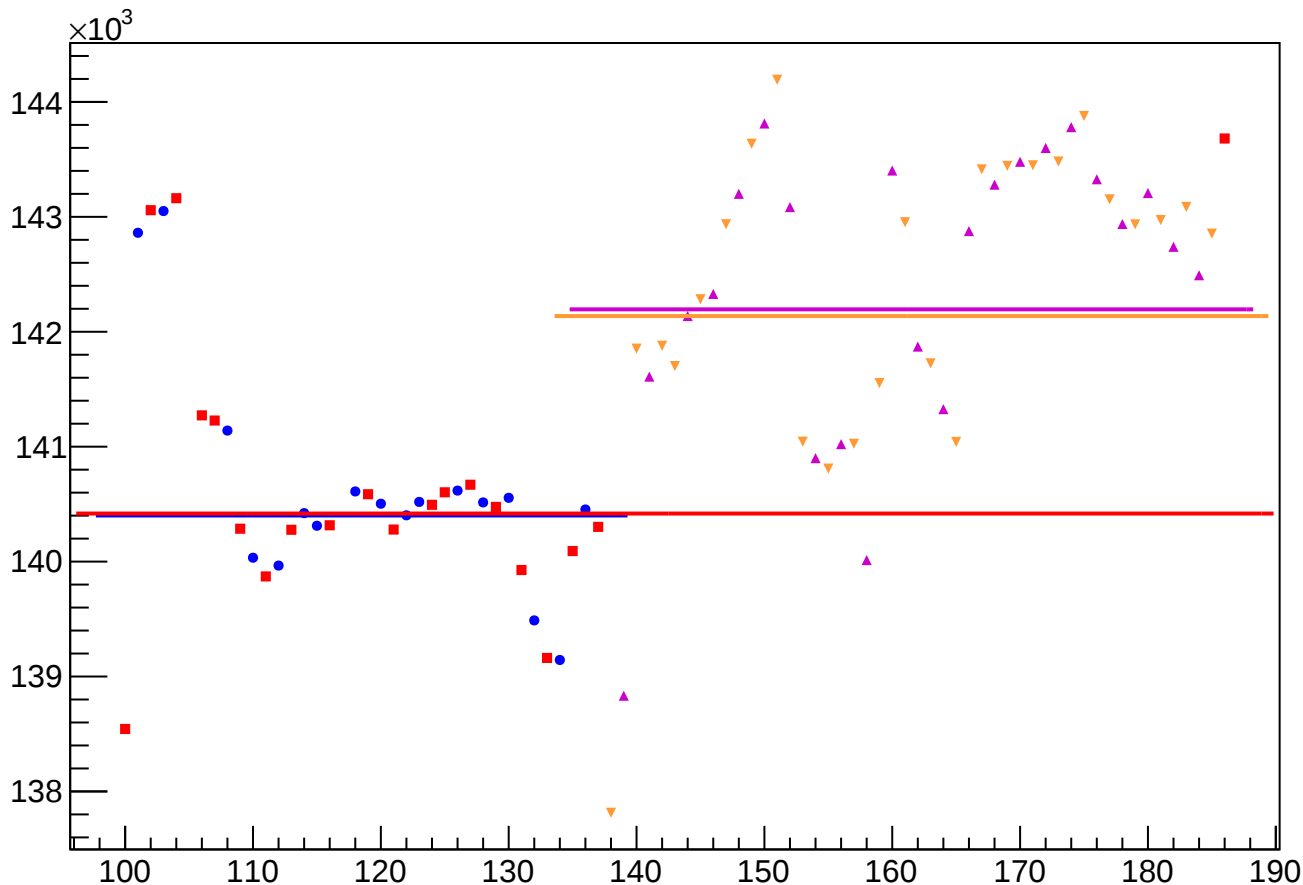
Right: 143.972 $\pm$ 0.029 χ^2 /NDF: 2467521.9/36

In: 174.563 $\pm$ 0.026 χ^2 /NDF:2633414.5/39

Out: 171.501 $\pm$ 0.025 χ^2 /NDF:3328632.5/44

All: 172.956 $\pm$ 0.018 χ^2 /NDF: 5969216.1/84

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140401.573 $\pm$ 0.064

χ^2 /NDF: 88055814.0/16

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: 140410.580 $\pm$ 0.044

χ^2 /NDF: 229788091.9/3

Right Out: 140418.247 $\pm$ 0.059

χ^2 /NDF: 141696132.3/19

In: 141457.690 $\pm$ 0.041

χ^2 /NDF: 1187891172.8/39

Out: 141386.826 $\pm$ 0.039

χ^2 /NDF: 1427814195.5/4

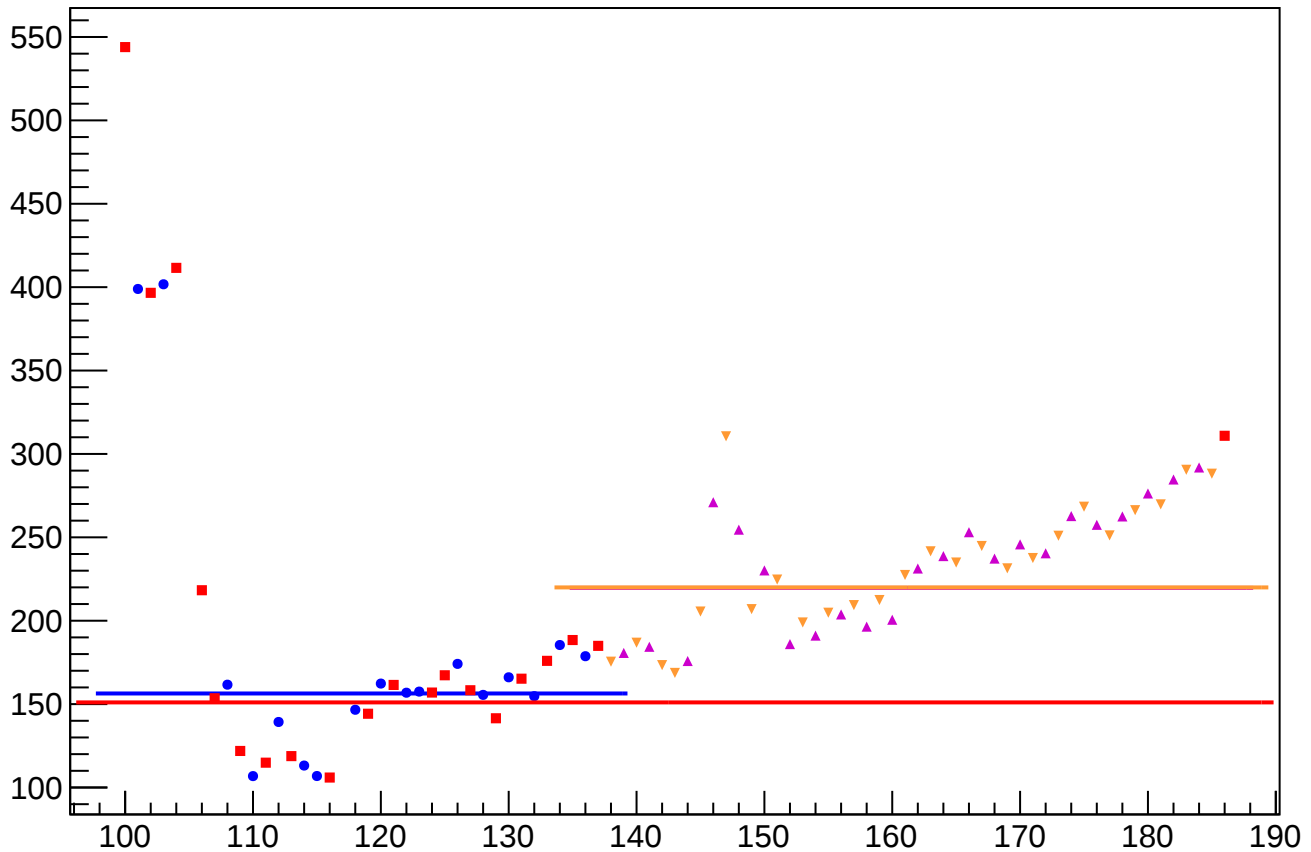
Left In: 142195.020 $\pm$ 0.054

χ^2 /NDF: 644030906.9/22

All: 141420.459 $\pm$ 0.028

χ^2 /NDF: 261724970

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.377 $\pm$ 0.046 χ^2/NDF : 1154470.5/16

Left Out: 219.969 $\pm$ 0.037 χ^2/NDF : 866616.3/24

Right Out: 151.022 $\pm$ 0.042 χ^2/NDF : 1505366.0/19

Left In: 219.685 $\pm$ 0.038 χ^2/NDF : 812745.1/22

Left: 219.831 $\pm$ 0.027 χ^2/NDF : 1679390.1/47

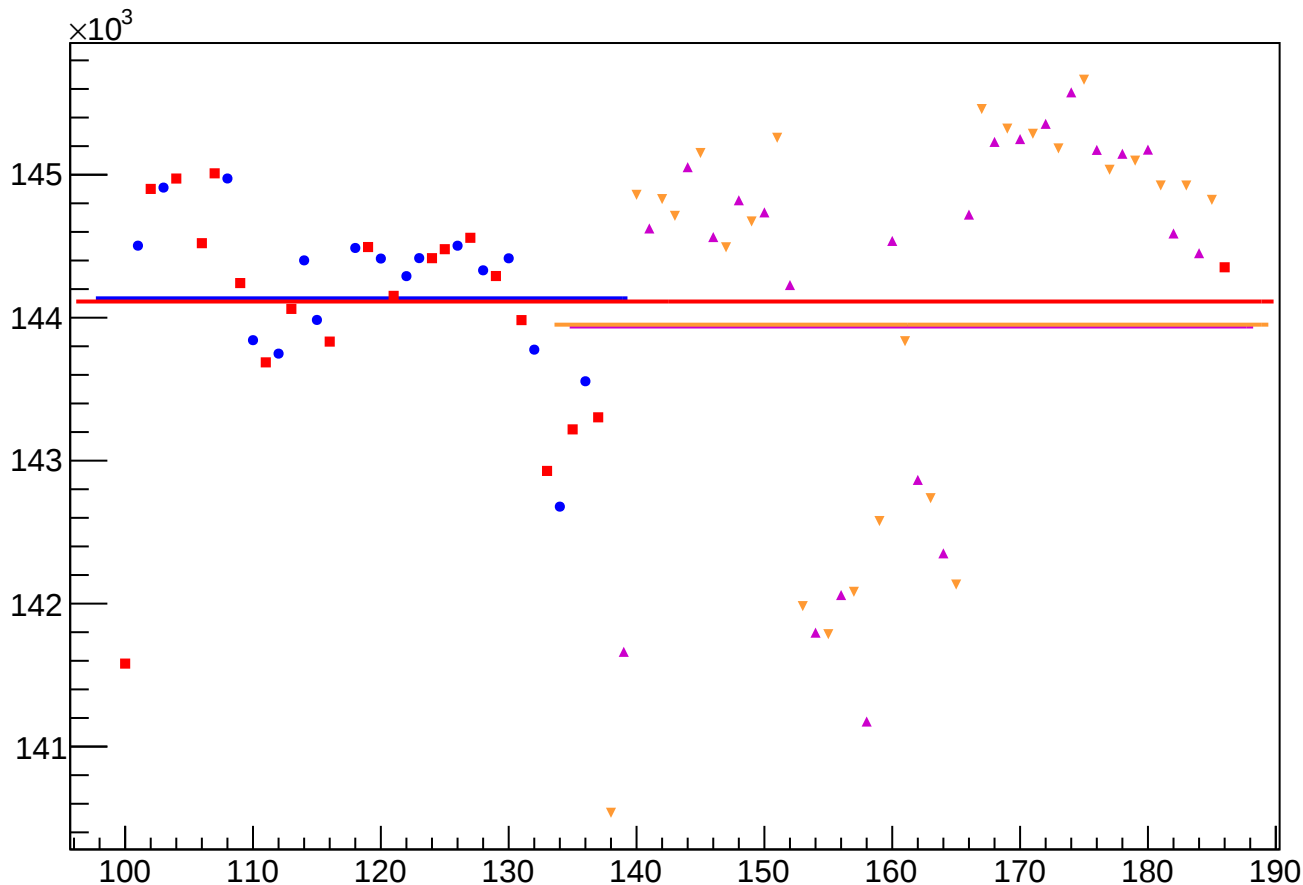
Right: 153.484 $\pm$ 0.031 χ^2/NDF : 2667292.0/36

In: 193.657 $\pm$ 0.029 χ^2/NDF : 3103137.9/39

Out: 189.885 $\pm$ 0.028 χ^2/NDF : 3887130.5/44

All: 191.676 $\pm$ 0.020 χ^2/NDF : 6999017.6/84

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144135.363 $\pm$ 0.067

χ^2 /NDF: 47030717.0/16

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: 144123.320 $\pm$ 0.045

χ^2 /NDF: 112580272.8/3

Right Out: 144113.174 $\pm$ 0.061

χ^2 /NDF: 65489799.3/19

In: 144015.793 $\pm$ 0.042

χ^2 /NDF: 772114461.7/39

Out: 144019.131 $\pm$ 0.040

χ^2 /NDF: 934210266.5/44

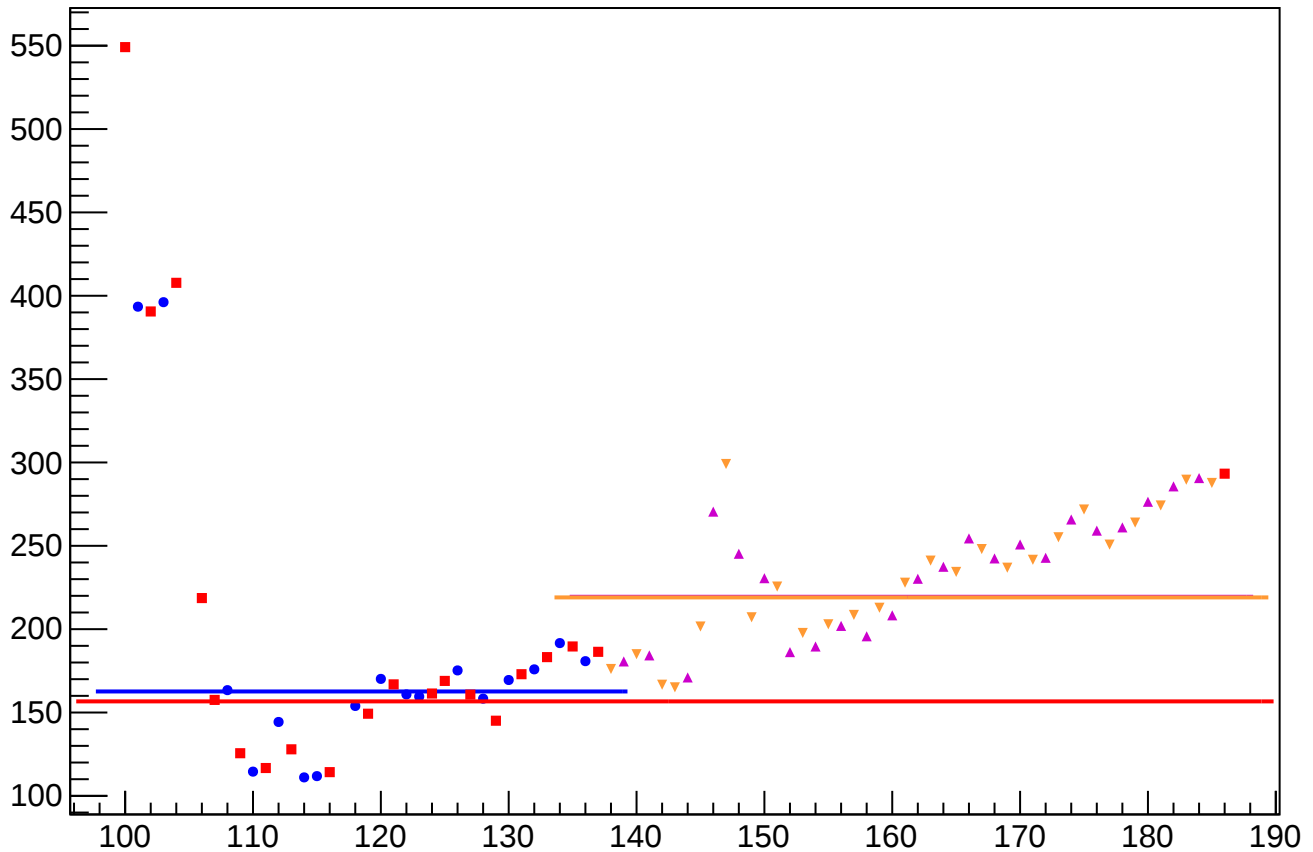
Left In: 143938.288 $\pm$ 0.054

χ^2 /NDF: 719814685.6/22

All: 144017.552 $\pm$ 0.029

χ^2 /NDF: 170632806.5/100

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.634 $\pm$ 0.047 χ^2 /NDF: 1069524.2/16

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF: 934417.6/24

Right Out: 156.680 $\pm$ 0.043 χ^2 /NDF: 1381422.2/19

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

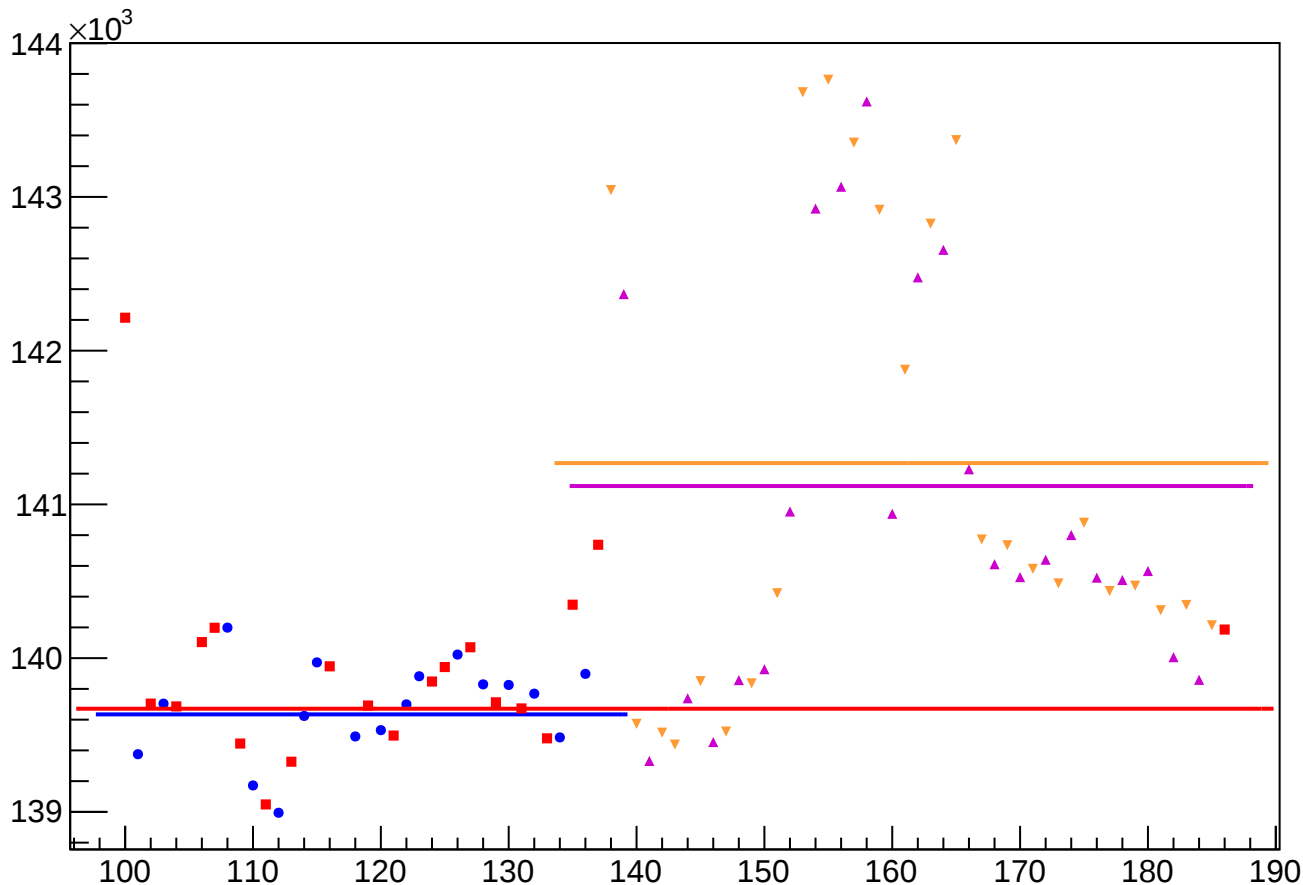
Right: 159.402 $\pm$ 0.032 χ^2 /NDF: 2459551.1/36

In: 197.091 $\pm$ 0.030 χ^2 /NDF: 2794732.5/39

Out: 192.911 $\pm$ 0.028 χ^2 /NDF: 3515388.7/44

All: 194.888 $\pm$ 0.020 χ^2 /NDF: 6320590.8/84

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.248 $\pm$ 0.068

χ^2/NDF : 24816599.6/16

Left: 141195.809 $\pm$ 0.038

χ^2/NDF : 1365080862.2/4

Right: 139654.187 $\pm$ 0.046

χ^2/NDF : 64564713.8/36

Left Out: 141268.791 $\pm$ 0.054

χ^2/NDF : 795989244.2/24

Right Out: 139671.075 $\pm$ 0.063

χ^2/NDF : 39588939.4/19

In: 140532.385 $\pm$ 0.043

χ^2/NDF : 879280506.9/39

Out: 140590.362 $\pm$ 0.041

χ^2/NDF : 1211477445.3/4

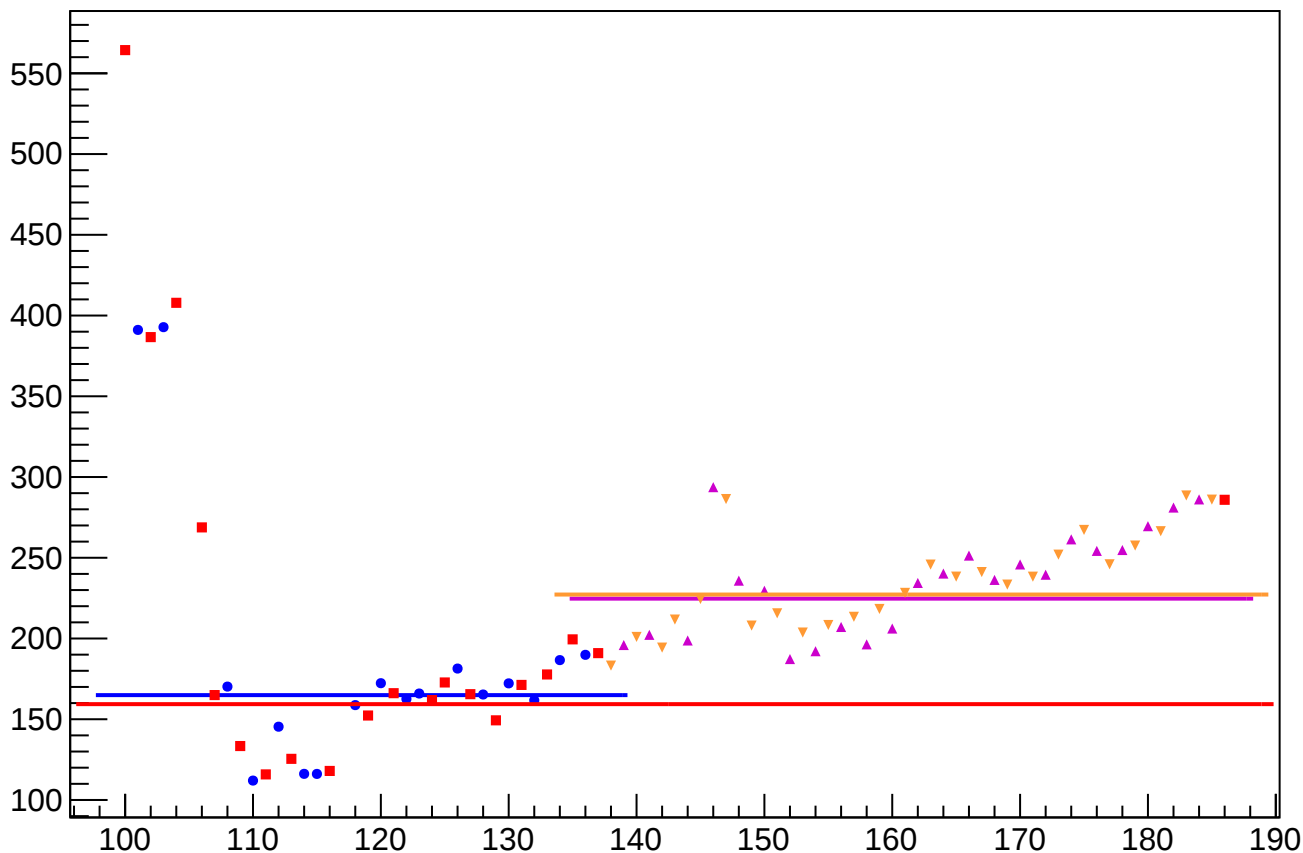
Left In: 141119.484 $\pm$ 0.055

χ^2/NDF : 565312728.1/22

All: 140562.743 $\pm$ 0.029

χ^2/NDF : 209172309

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.938 $\pm$ 0.048 χ^2/NDF : 1064403.1/16

Left Out: 227.224 $\pm$ 0.038 χ^2/NDF : 484955.3/24

Right Out: 159.349 $\pm$ 0.044 χ^2/NDF : 1391767.8/19

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

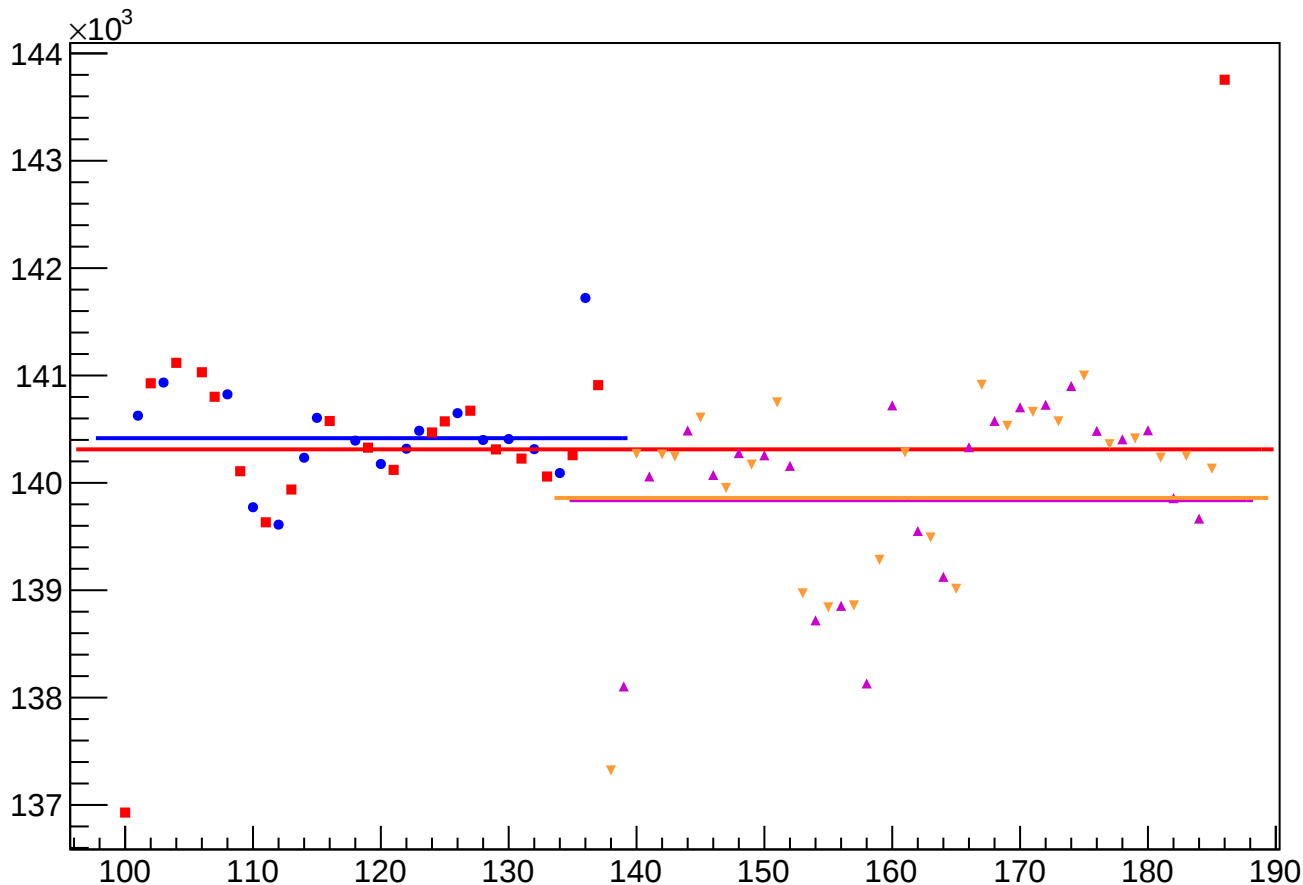
Right: 161.912 $\pm$ 0.033 χ^2/NDF : 2463501.4/36

In: 201.068 $\pm$ 0.030 χ^2/NDF : 2578649.8/39

Out: 198.403 $\pm$ 0.029 χ^2/NDF : 3233533.9/44

All: 199.673 $\pm$ 0.021 χ^2/NDF : 5816264.0/84

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.183 $\pm$ 0.069

χ^2/NDF : 69956735.1/16

Left: 139849.553 $\pm$ 0.037

χ^2/NDF : 609773442.9/47

Left Out: 139859.696 $\pm$ 0.051

χ^2/NDF : 330118281.5/24

Right: 140359.513 $\pm$ 0.046

χ^2/NDF : 157868729.7/3

Right Out: 140312.085 $\pm$ 0.063

χ^2/NDF : 86654919.6/19

In: 140053.921 $\pm$ 0.042

χ^2/NDF : 394107526.7/39

Out: 140040.341 $\pm$ 0.040

χ^2/NDF : 448073278.0/44

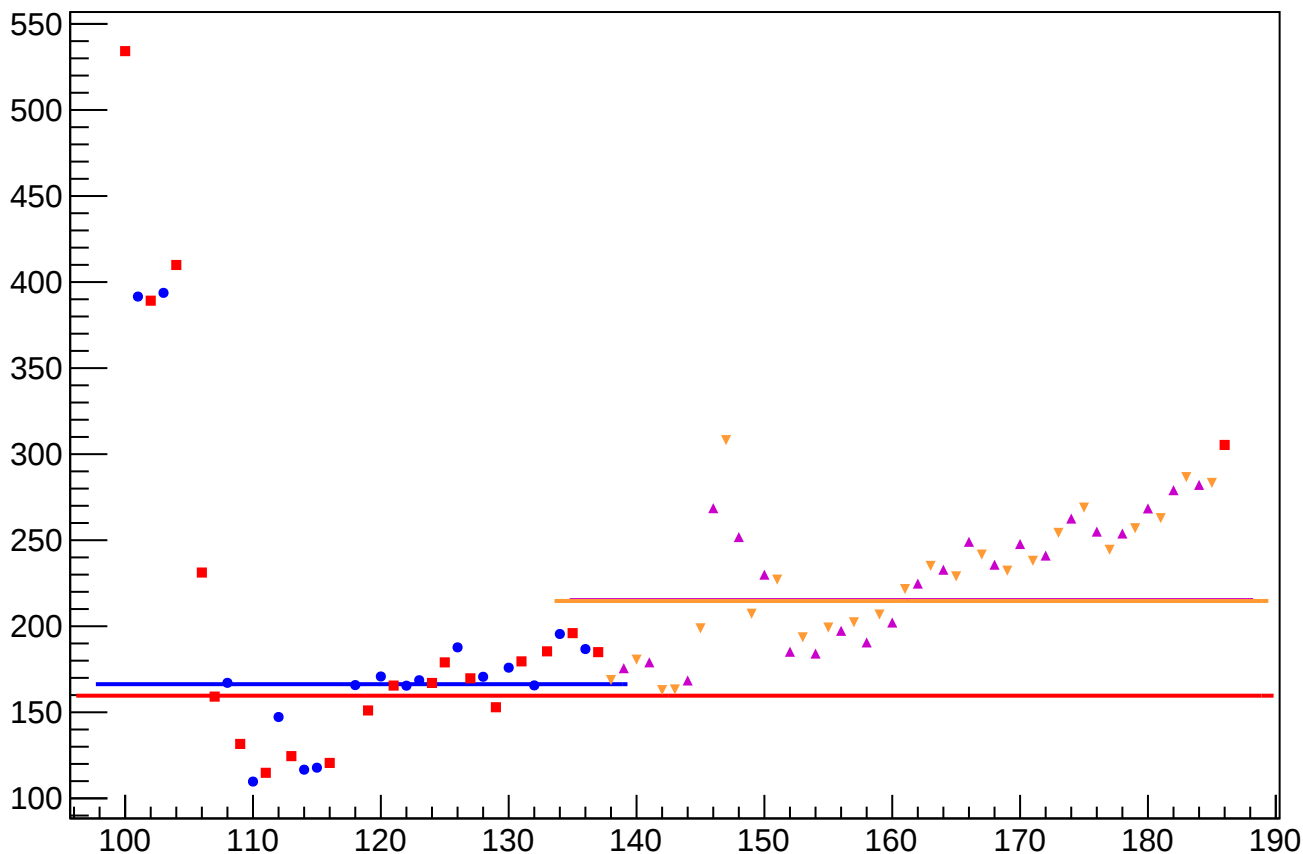
Left In: 139838.724 $\pm$ 0.053

χ^2/NDF : 279573689.3/22

All: 140046.761 $\pm$ 0.029

χ^2/NDF : 842236402.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.338 $\pm$ 0.048 χ^2 /NDF: 1081005.6/16

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 159.650 $\pm$ 0.044 χ^2 /NDF: 1400370.0/19

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

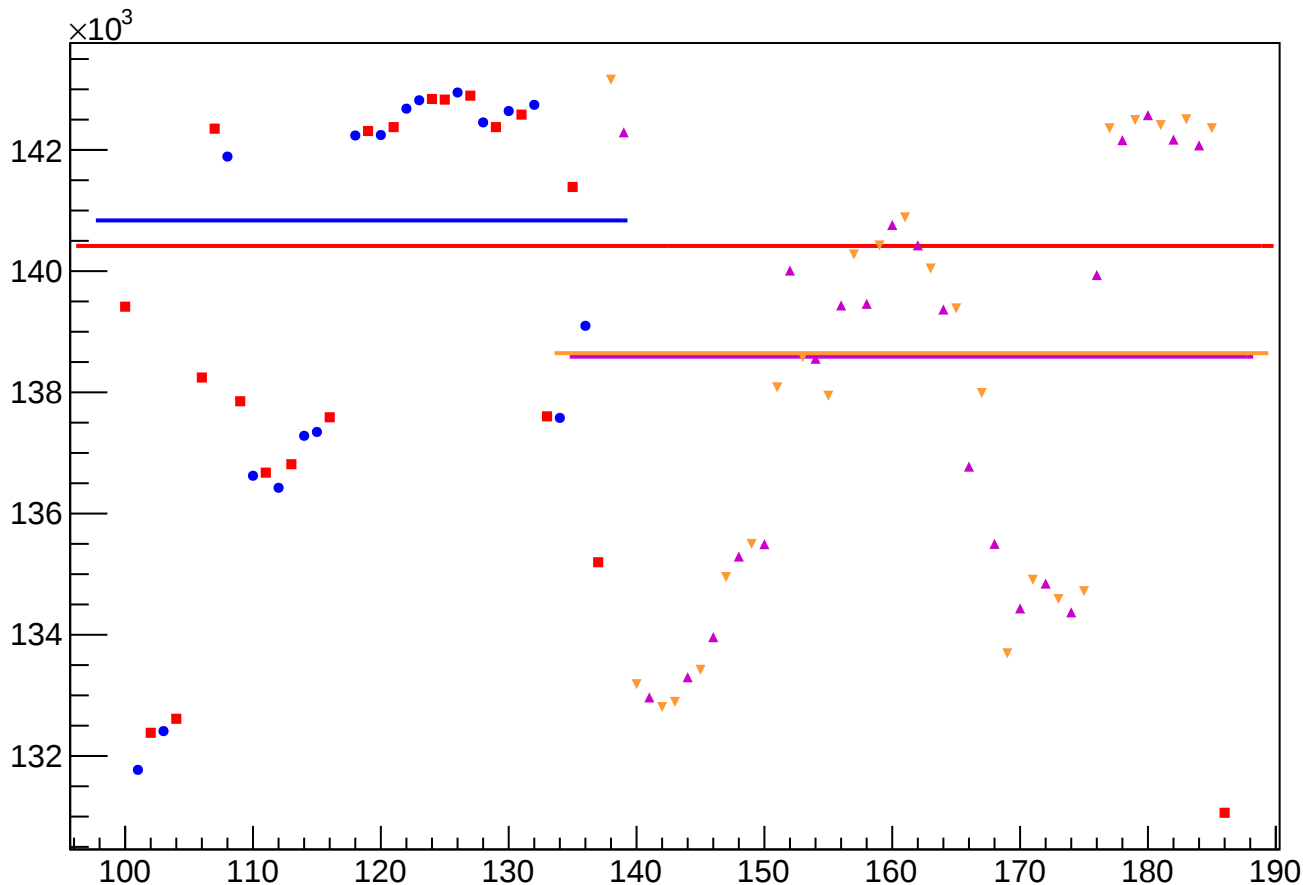
Right: 162.697 $\pm$ 0.033 χ^2 /NDF: 2491752.6/36

In: 197.004 $\pm$ 0.030 χ^2 /NDF: 2601853.3/39

Out: 192.713 $\pm$ 0.028 χ^2 /NDF: 3308208.6/44

All: 194.742 $\pm$ 0.020 χ^2 /NDF: 5921164.0/84

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140836.633 $\pm$ 0.100 χ^2/NDF : 821253018.3/16

Left Out: 138646.366 $\pm$ 0.071 χ^2/NDF : 2548637600.4/24

Right Out: 140415.944 $\pm$ 0.098 χ^2/NDF : 1098037520.0/19

Left In: 138588.711 $\pm$ 0.074 χ^2/NDF : 1948065195.1/22

Left: 138618.660 $\pm$ 0.051 χ^2/NDF : 4497021019.3/4

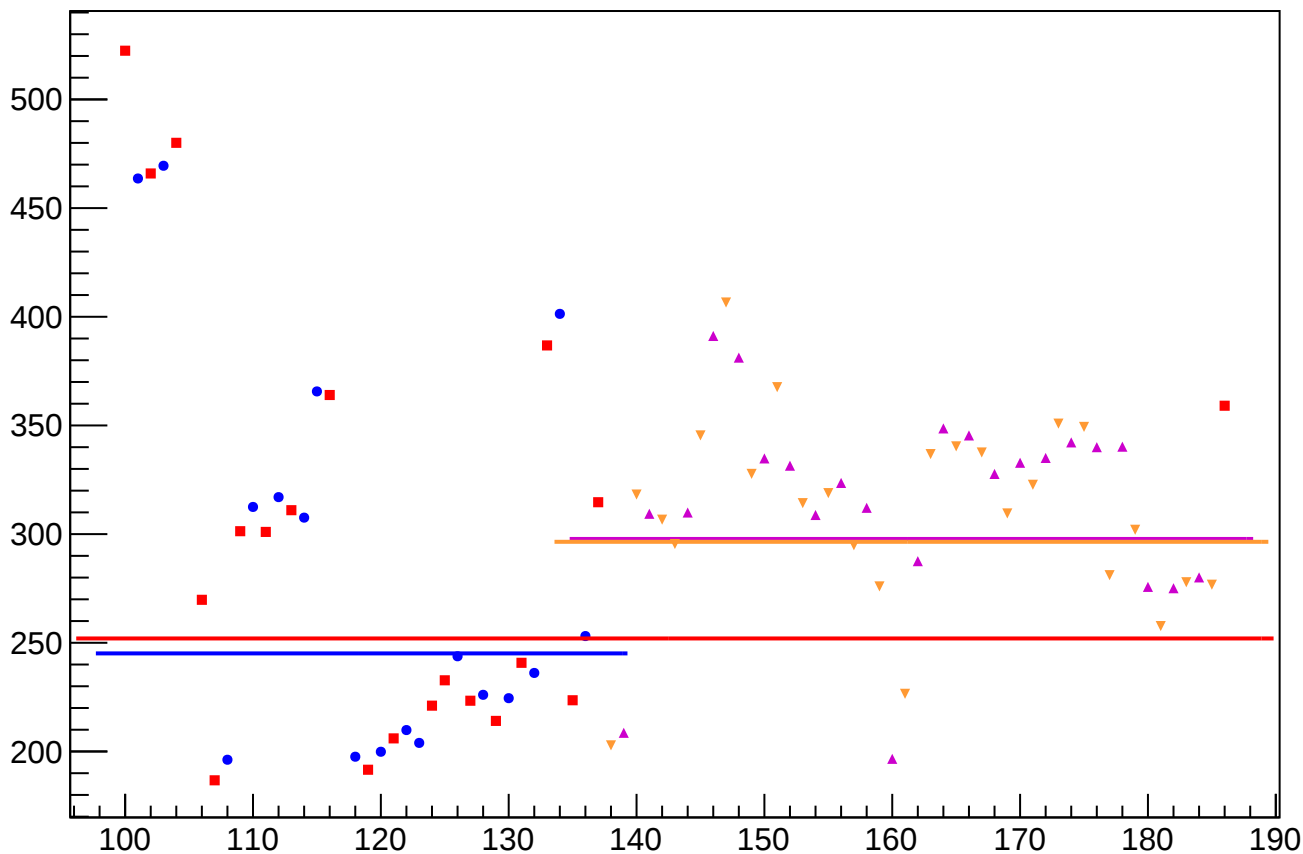
Right: 140621.138 $\pm$ 0.070 χ^2/NDF : 1928324707.0/4

In: 139377.637 $\pm$ 0.059 χ^2/NDF : 3096150778.3/39

Out: 139255.828 $\pm$ 0.057 χ^2/NDF : 3861524190.7/4

All: 139314.668 $\pm$ 0.041 χ^2/NDF : 695985286

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.117+/-0.071 χ^2/NDF : 868050.1/16

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 251.992+/-0.069 χ^2/NDF : 1078759.6/19

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

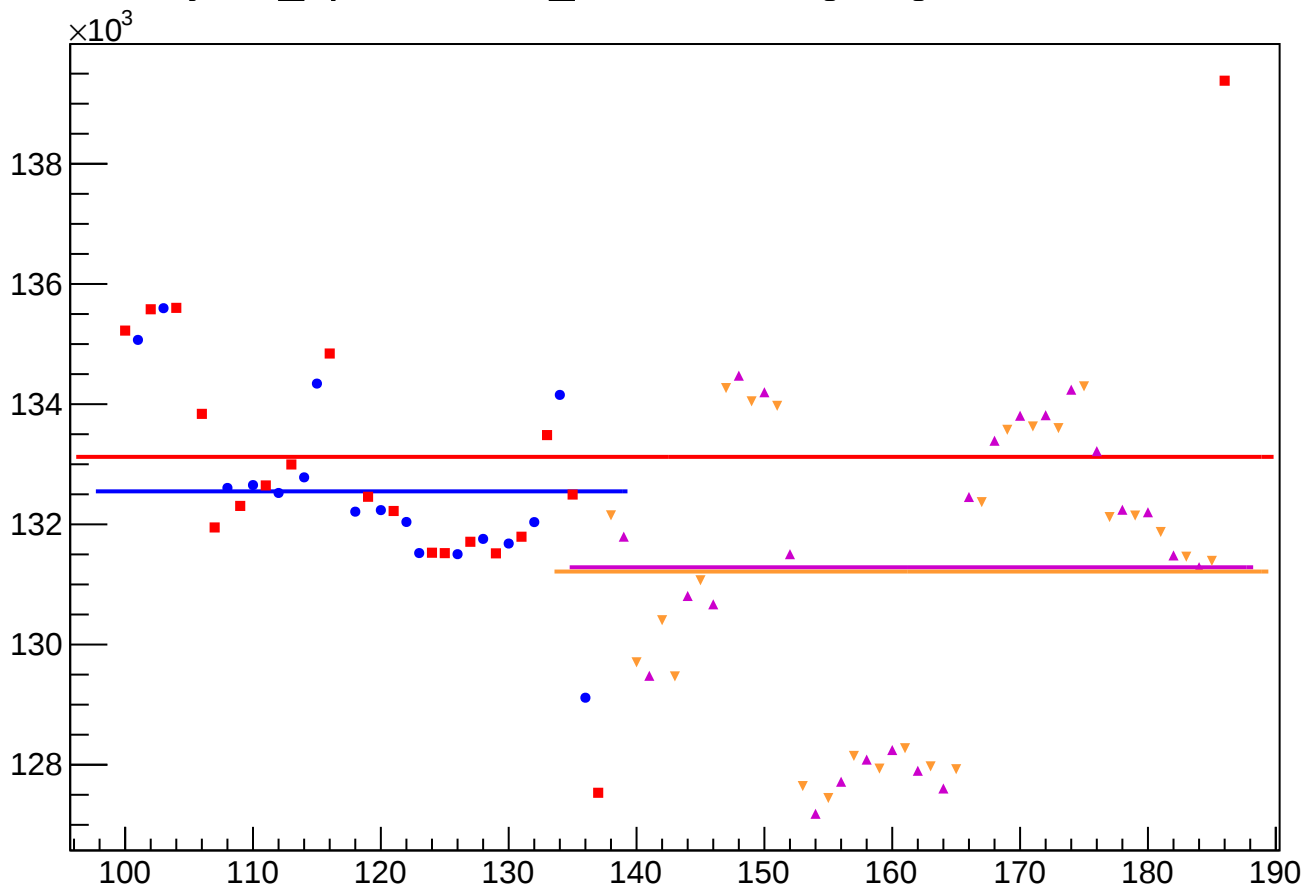
Right: 248.639+/-0.049 χ^2/NDF : 1951635.3/36

In: 279.294+/-0.042 χ^2/NDF : 2288225.9/39

Out: 281.148+/-0.041 χ^2/NDF : 2243738.9/44

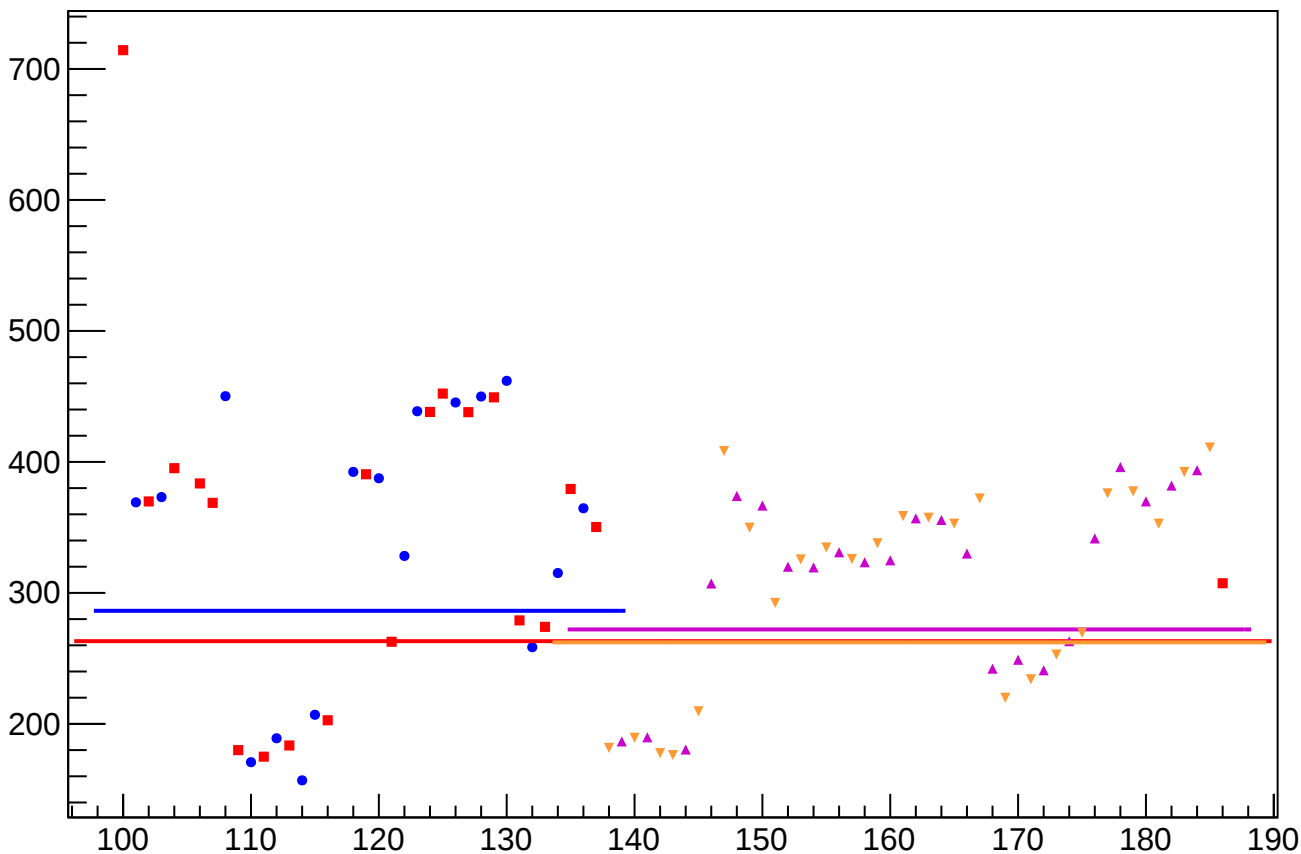
All: 280.252+/-0.029 χ^2/NDF : 4532973.8/84

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132549.335+/-0.120	χ^2/NDF : 161038742.0/16	Left: 131248.166+/-0.047	χ^2/NDF : 2230223308.9/4
Left Out: 131214.985+/-0.064	χ^2/NDF : 1173424494.6/24	Right: 132874.259+/-0.079	χ^2/NDF : 486678329.0/3
Right Out: 133123.173+/-0.105	χ^2/NDF : 312614101.8/19	In: 131596.469+/-0.059	χ^2/NDF : 1301391788.9/39
Left In: 131285.623+/-0.068	χ^2/NDF : 1056232192.1/22	Out: 131737.633+/-0.055	χ^2/NDF : 1727136748.1/4
		All: 131672.649+/-0.040	χ^2/NDF : 303158273

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.338 $\pm$ 0.085 χ^2/NDF : 1514049.7/16

Left Out: 262.260 $\pm$ 0.045 χ^2/NDF :2818169.1/24

Right Out: 263.162 $\pm$ 0.074 χ^2/NDF : 1630639.6/19

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

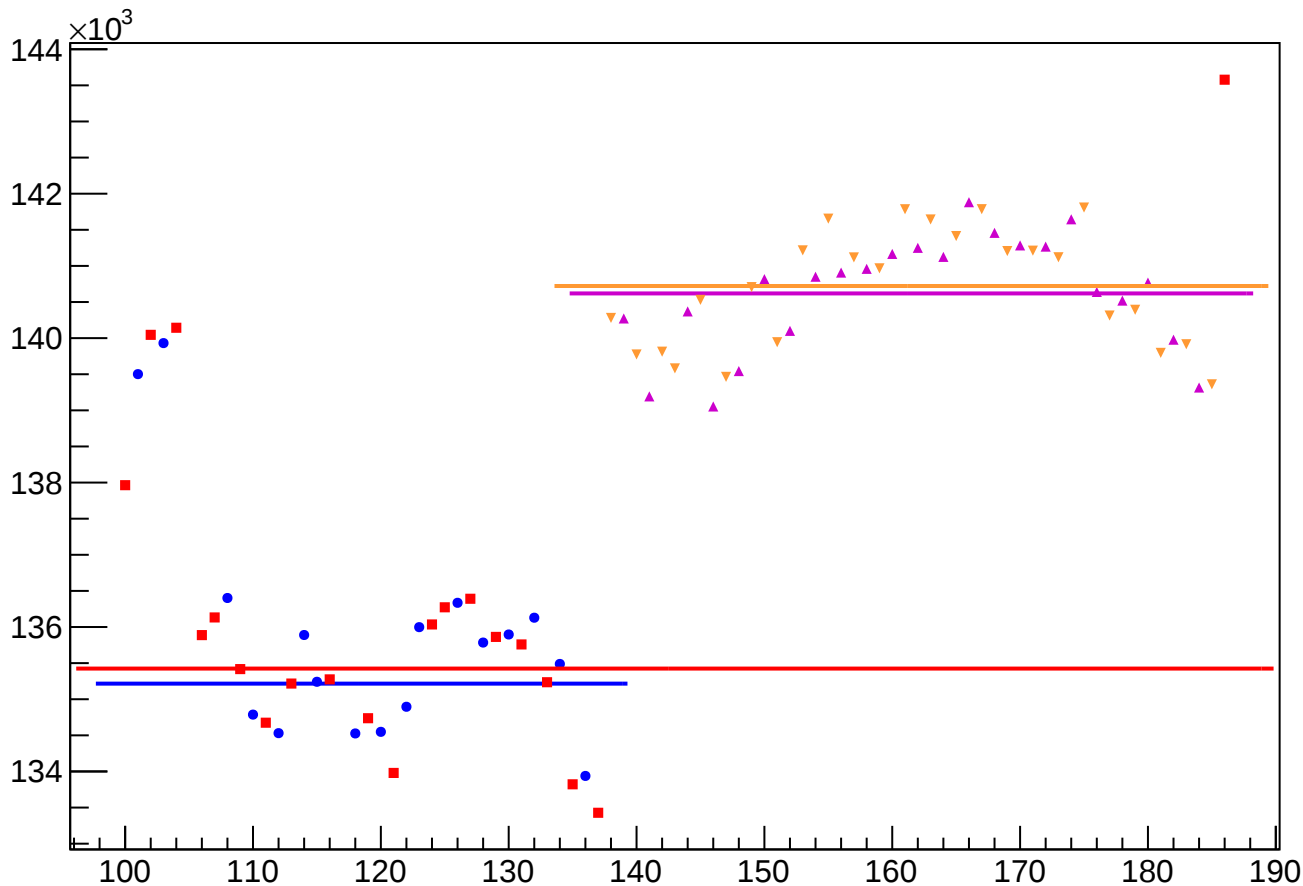
Right: 273.215 $\pm$ 0.056 χ^2/NDF : 3187179.6/36

In: 275.613 $\pm$ 0.042 χ^2/NDF :3757286.3/39

Out: 262.507 $\pm$ 0.039 χ^2/NDF :4448916.7/44

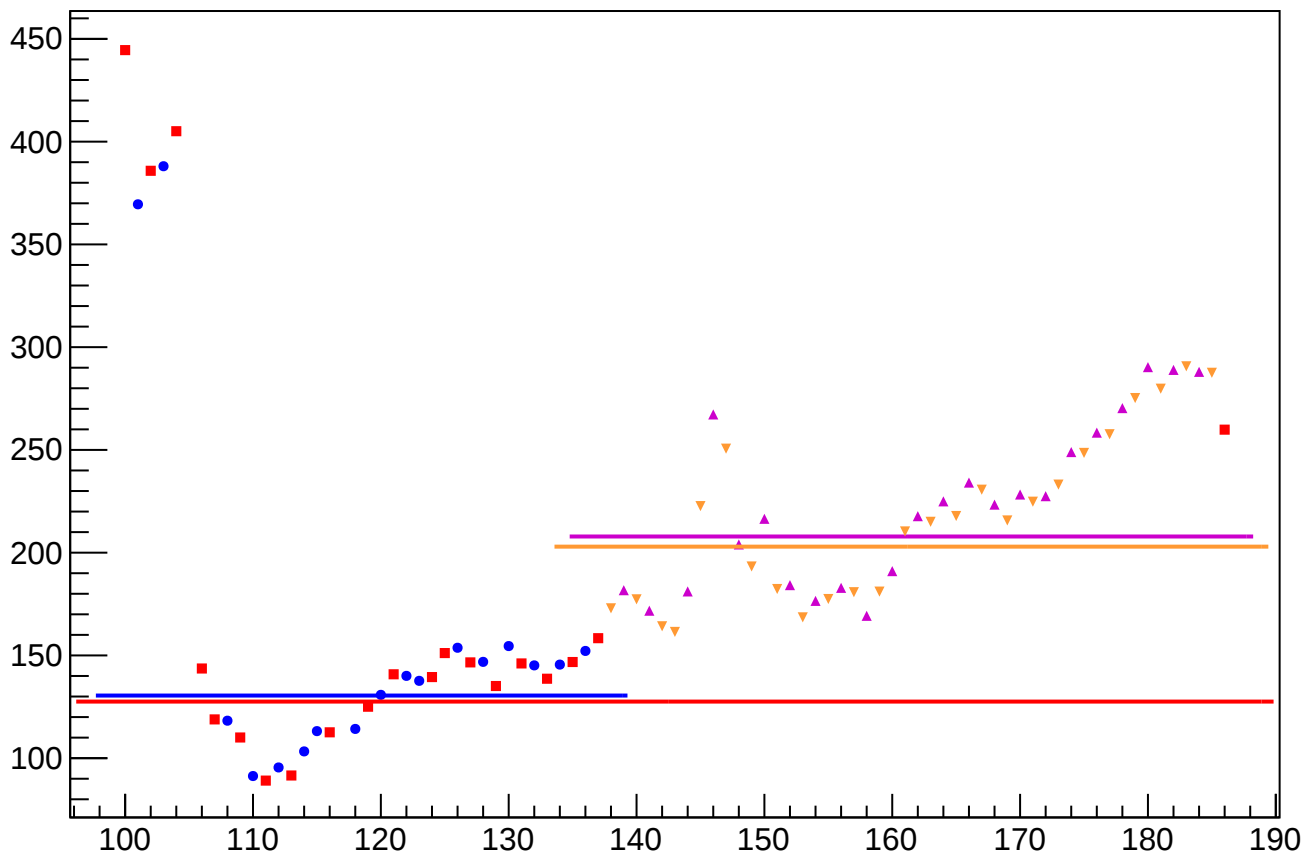
All: 268.540 $\pm$ 0.028 χ^2/NDF : 8258857.7/84

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.054 $\pm$ 0.054	χ^2 /NDF: 371419425.6/16	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 135327.544 $\pm$ 0.037	χ^2 /NDF: 1116065549.6/16
Right Out: 135424.591 $\pm$ 0.051	χ^2 /NDF: 736798972.8/19	In: 138088.716 $\pm$ 0.037	χ^2 /NDF: 5810383221.8/39
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138200.093 $\pm$ 0.035	χ^2 /NDF: 6684904043.3/47
		All: 138147.808 $\pm$ 0.026	χ^2 /NDF: 125000304.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.478 $\pm$ 0.038 χ^2/NDF : 1372969.9/16

Left Out: 202.934 $\pm$ 0.034 χ^2/NDF : 1052283.6/24

Right Out: 127.541 $\pm$ 0.036 χ^2/NDF : 1634654.1/19

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

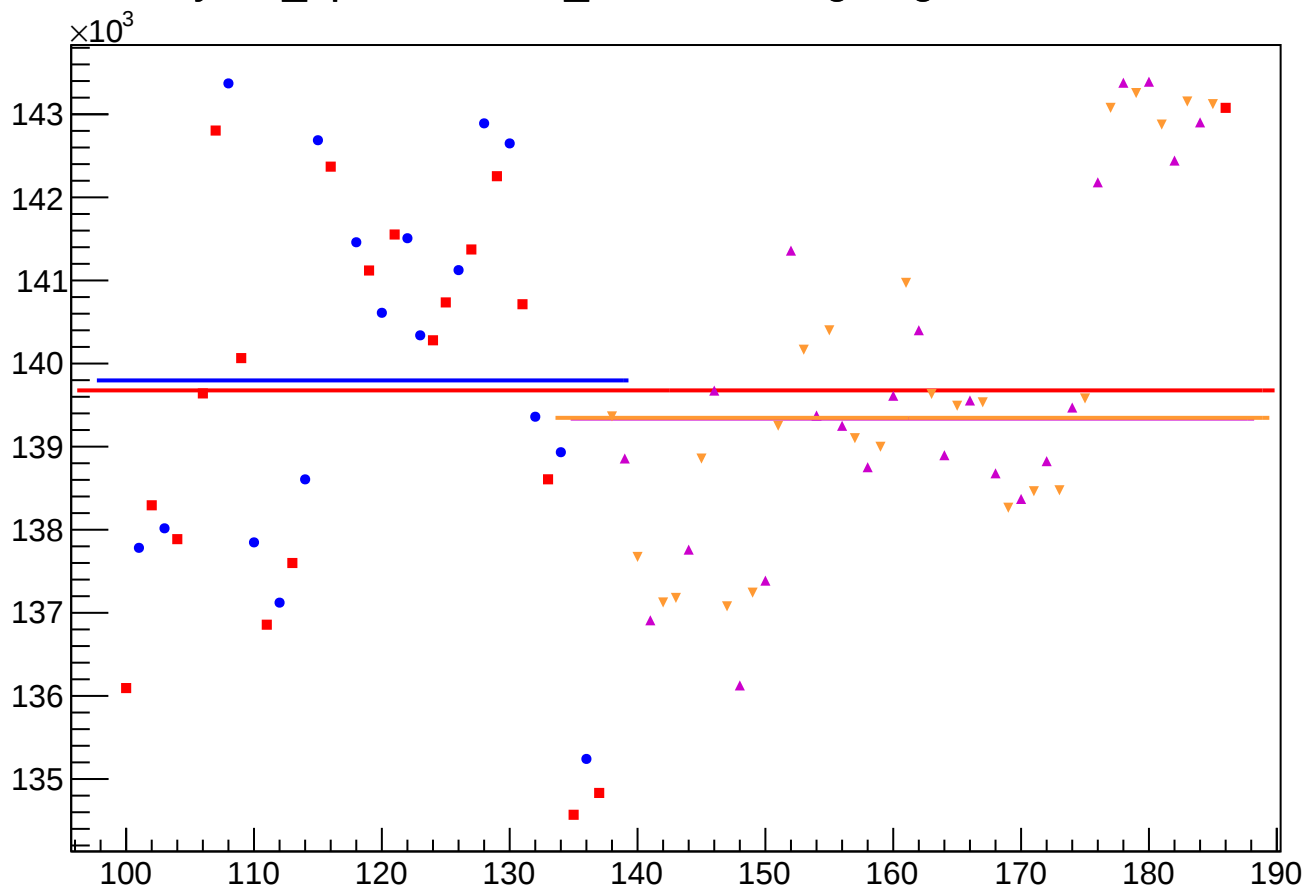
Right: 128.908 $\pm$ 0.026 χ^2/NDF : 3010735.4/36

In: 171.627 $\pm$ 0.026 χ^2/NDF : 4471954.2/39

Out: 167.044 $\pm$ 0.025 χ^2/NDF : 4996495.9/44

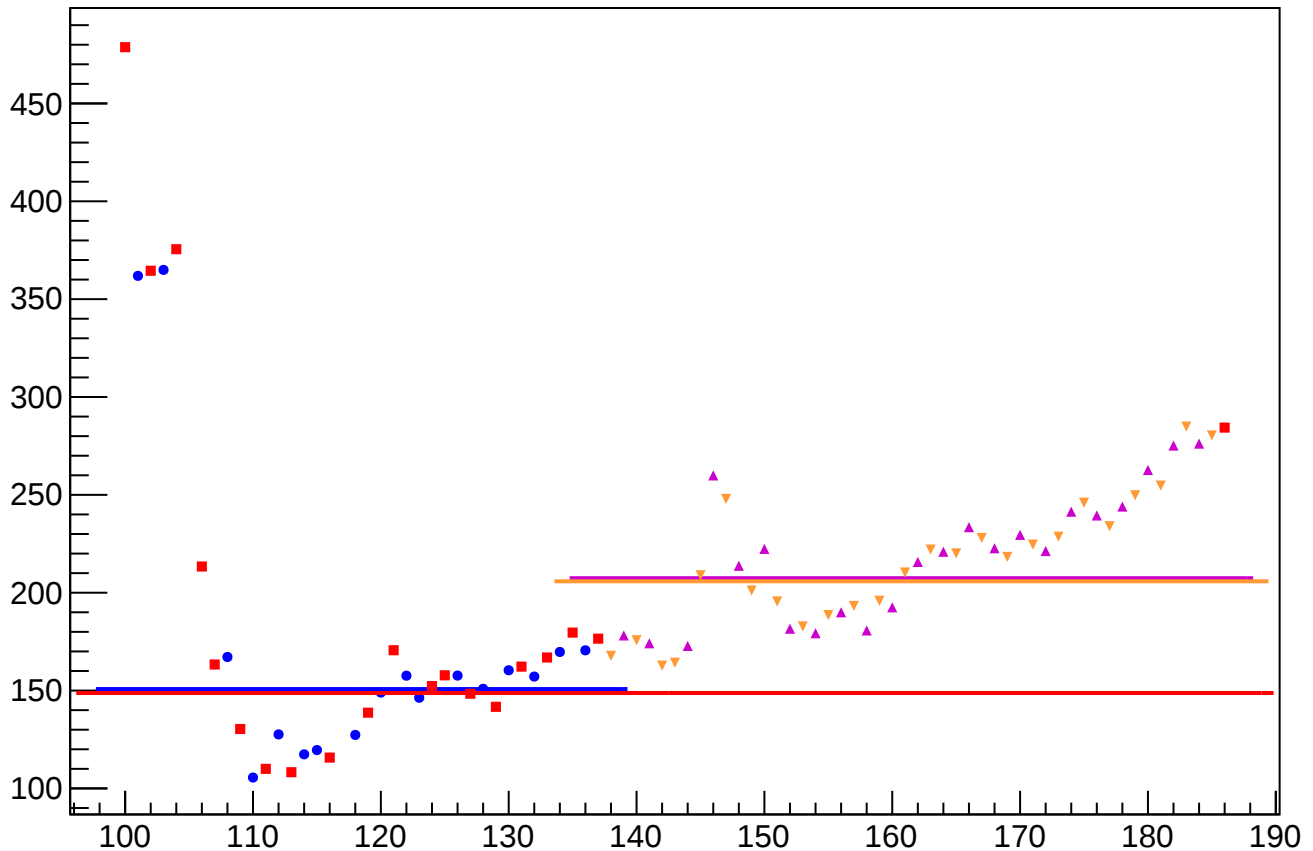
All: 169.195 $\pm$ 0.018 χ^2/NDF : 9484512.6/84

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139796.979 $\pm$ 0.062	χ^2 /NDF: 1668151198.8/16	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: 139733.444 $\pm$ 0.043	χ^2 /NDF: 3229778725.7/4
Right Out: 139676.830 $\pm$ 0.059	χ^2 /NDF: 1559645300.0/19	In: 139522.252 $\pm$ 0.039	χ^2 /NDF: 2993906683.4/39
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139482.428 $\pm$ 0.038	χ^2 /NDF: 2849525720.3/4
		All: 139501.430 $\pm$ 0.027	χ^2 /NDF: 584396855.0/10

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.766 $\pm$ 0.044 χ^2 /NDF: 1050110.5/16

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 148.764 $\pm$ 0.041 χ^2 /NDF: 1376110.1/19

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

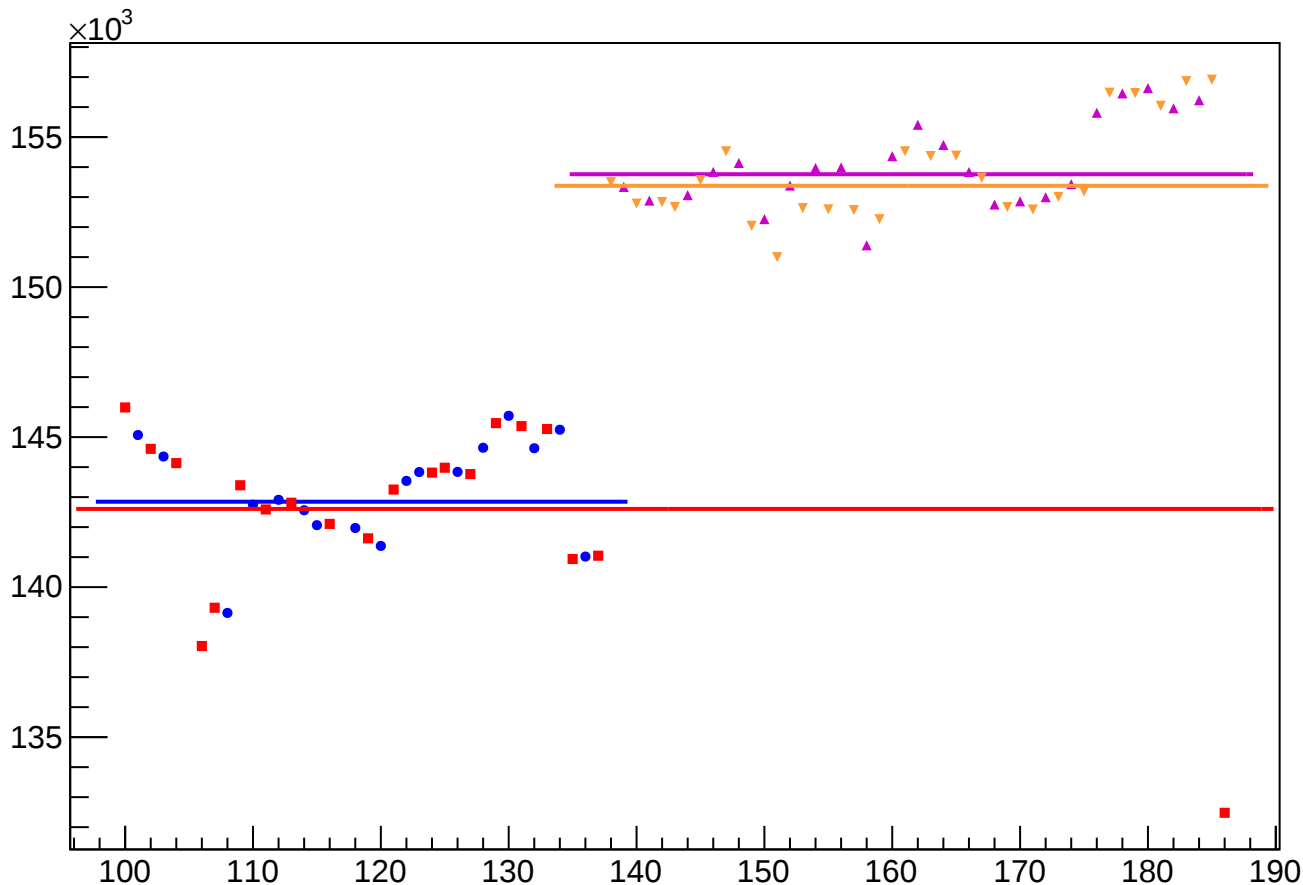
Right: 149.708 $\pm$ 0.030 χ^2 /NDF: 2427321.1/36

In: 184.665 $\pm$ 0.028 χ^2 /NDF: 2749396.1/39

Out: 182.360 $\pm$ 0.027 χ^2 /NDF: 3232194.5/44

All: 183.460 $\pm$ 0.019 χ^2 /NDF: 5985183.6/84

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142846.769 $\pm$ 0.065 χ^2/NDF : 735751313.8/16

Left Out: 153376.698 $\pm$ 0.050 χ^2/NDF : 803848095.1/24

Right Out: 142607.187 $\pm$ 0.060 χ^2/NDF : 1535799823.2/19

Left In: 153762.419 $\pm$ 0.051 χ^2/NDF : 635075685.0/22

Left: 153562.262 $\pm$ 0.036 χ^2/NDF : 1468093411.3/4

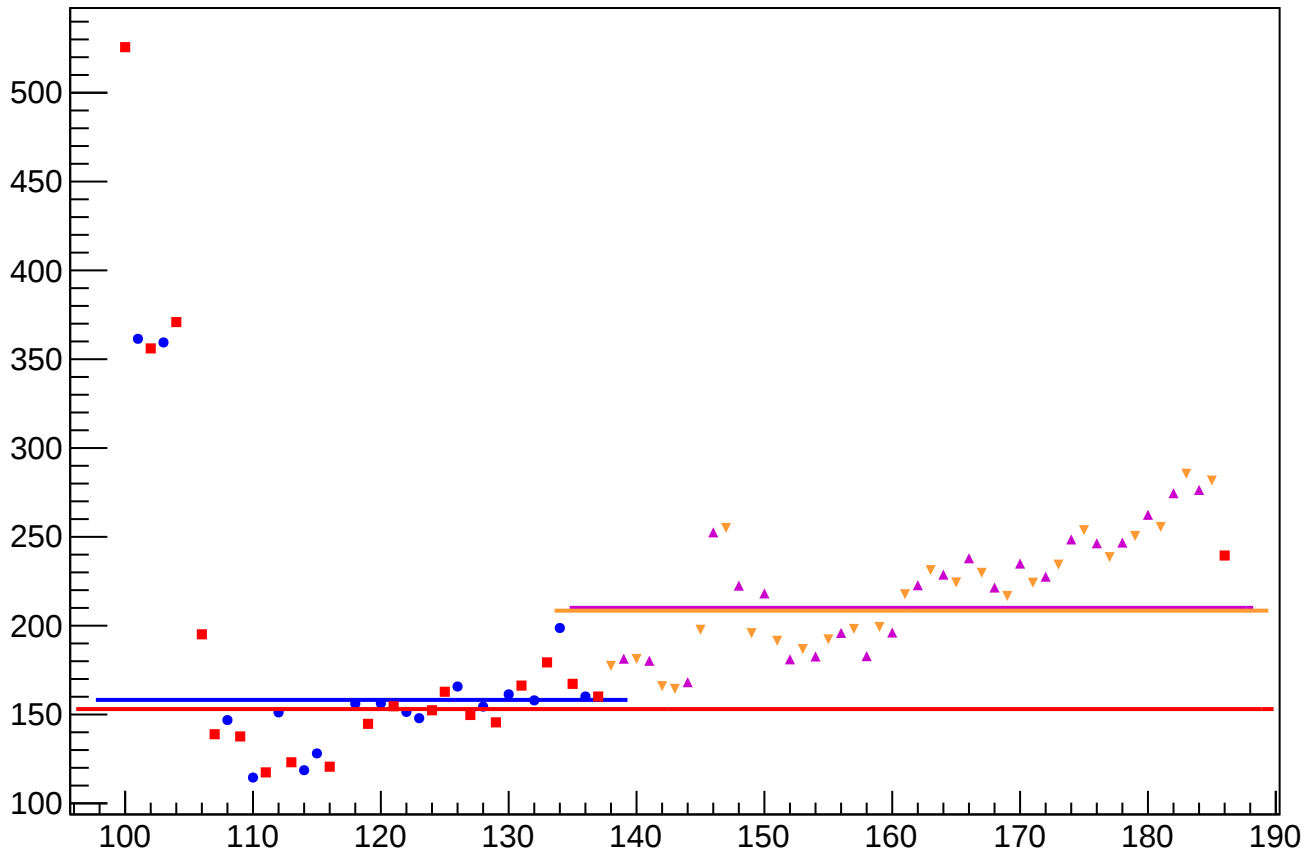
Right: 142717.220 $\pm$ 0.044 χ^2/NDF : 2278946258.5/4

In: 149540.932 $\pm$ 0.040 χ^2/NDF : 18781016731.6/3

Out: 148985.915 $\pm$ 0.038 χ^2/NDF : 21610452555.8/3

All: 149248.109 $\pm$ 0.028 χ^2/NDF : 404915967.0/10

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.235 $\pm$ 0.046 χ^2 /NDF: 883619.5/16

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 153.060 $\pm$ 0.042 χ^2 /NDF: 1100524.0/19

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

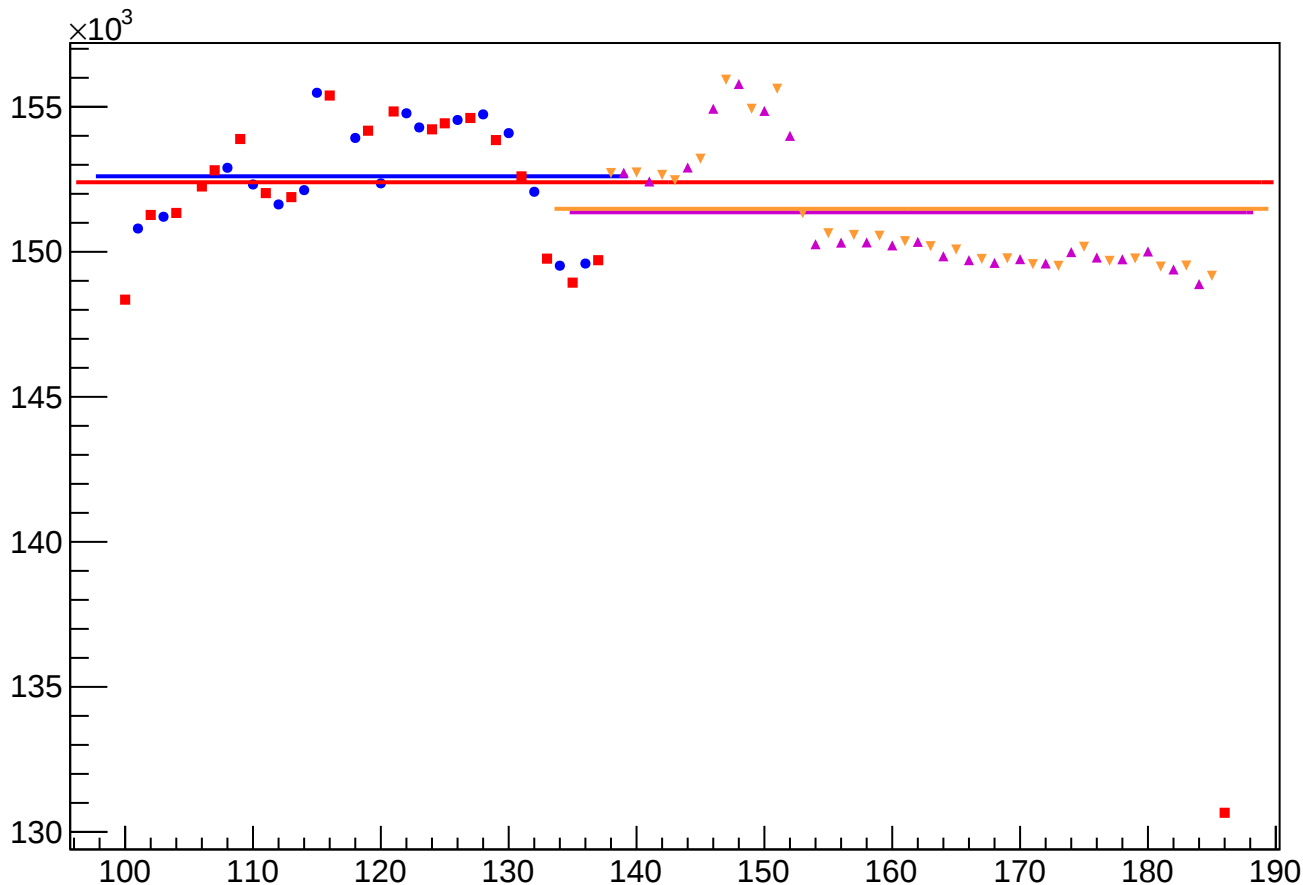
Right: 155.437 $\pm$ 0.031 χ^2 /NDF: 1991042.8/36

In: 190.004 $\pm$ 0.028 χ^2 /NDF: 2370224.6/39

Out: 185.877 $\pm$ 0.027 χ^2 /NDF: 2841528.1/44

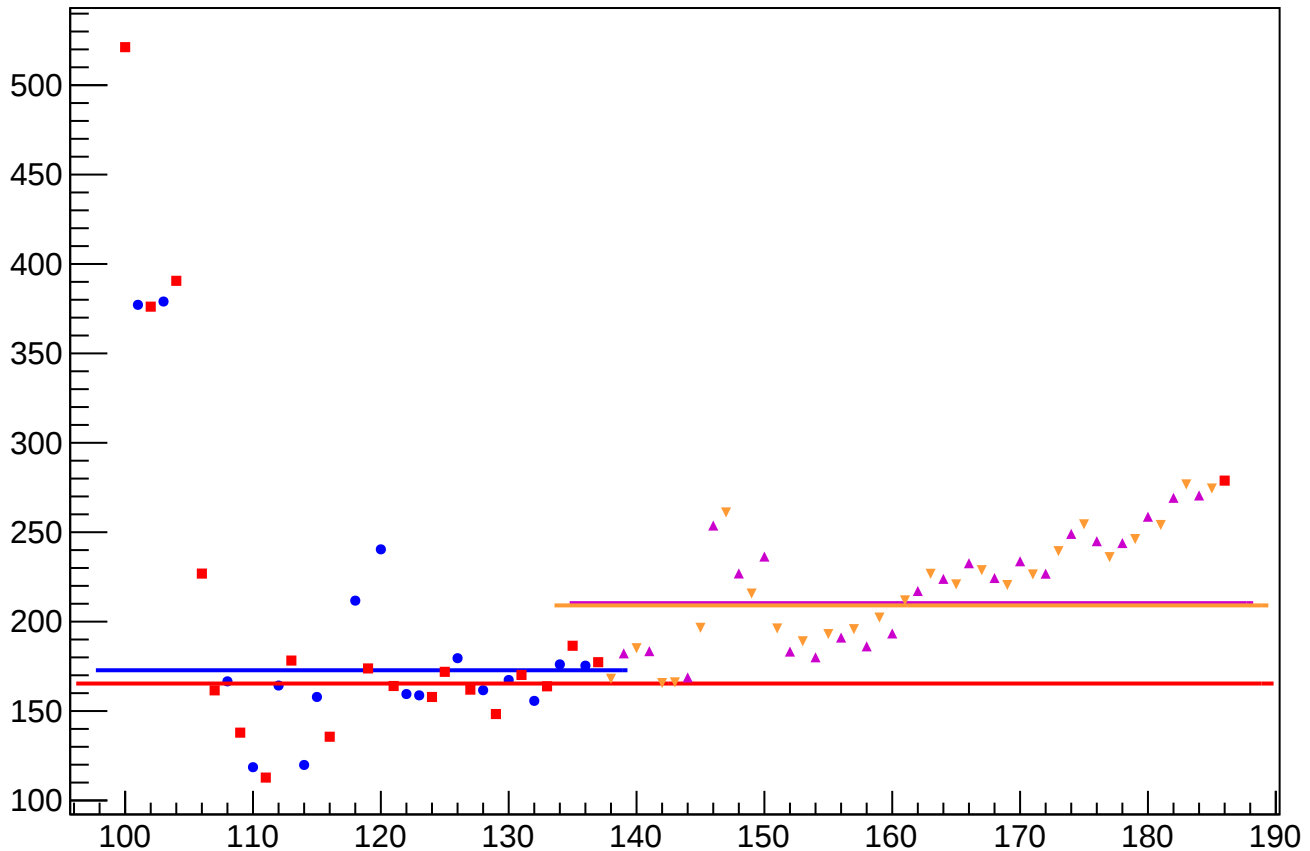
All: 187.826 $\pm$ 0.020 χ^2 /NDF: 5222824.6/84

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152604.406 $\pm$ 0.072	χ^2 /NDF: 616818062.6/16	Left: 151425.512 $\pm$ 0.036	χ^2 /NDF: 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2 /NDF: 1481910066.9/24	Right: 152491.498 $\pm$ 0.049	χ^2 /NDF: 3698427701.9/4
Right Out: 152398.637 $\pm$ 0.066	χ^2 /NDF: 3077161503.7/19	In: 151780.124 $\pm$ 0.042	χ^2 /NDF: 2234367266.4/39
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: 151816.013 $\pm$ 0.040	χ^2 /NDF: 4683206983.5/4
		All: 151799.115 $\pm$ 0.029	χ^2 /NDF: 691796269.0/10

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.803 $\pm$ 0.051 χ^2 /NDF: 945652.6/16

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 165.384 $\pm$ 0.046 χ^2 /NDF: 1160671.2/19

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

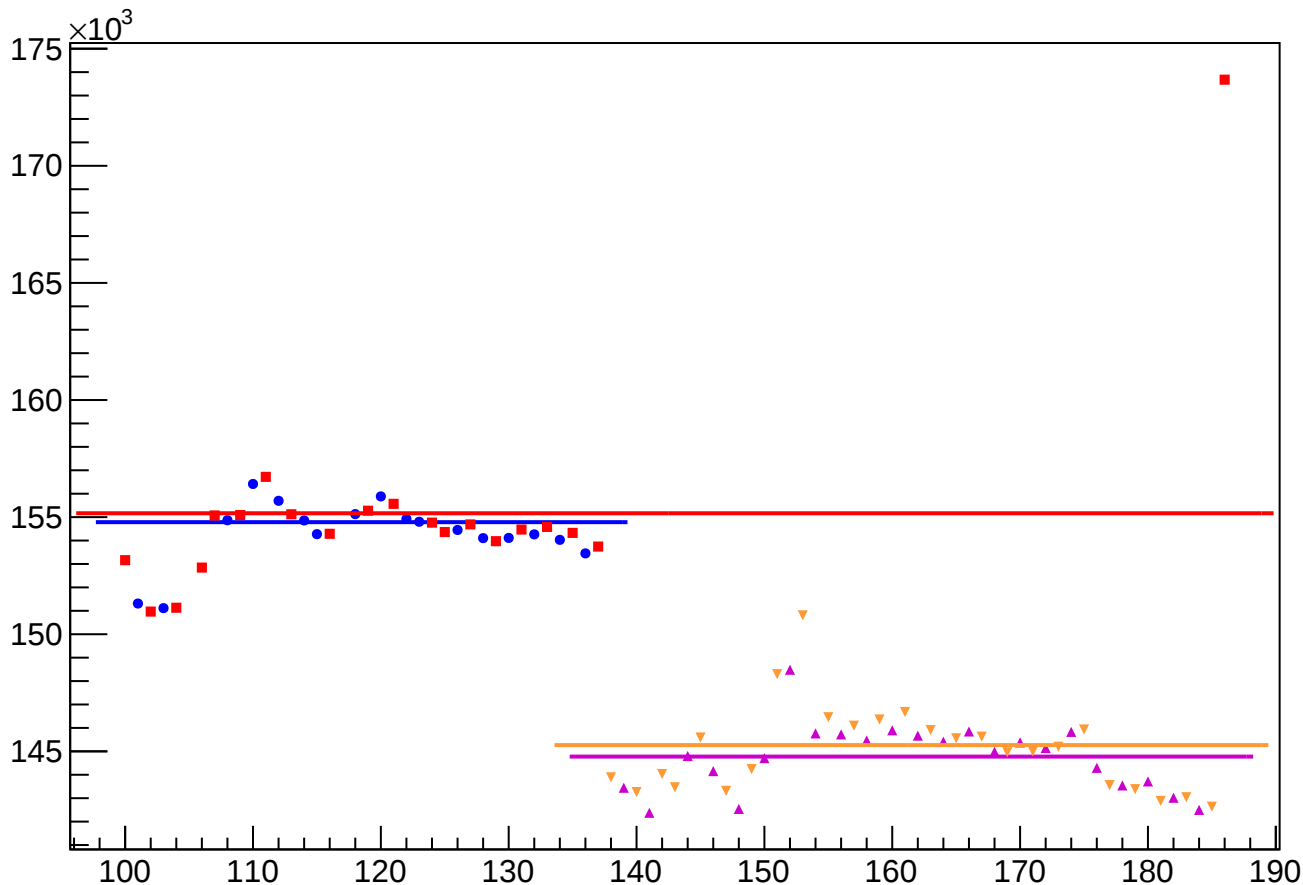
Right: 168.732 $\pm$ 0.034 χ^2 /NDF: 2117888.0/36

In: 197.734 $\pm$ 0.030 χ^2 /NDF: 1981790.5/39

Out: 193.197 $\pm$ 0.028 χ^2 /NDF: 2434707.3/44

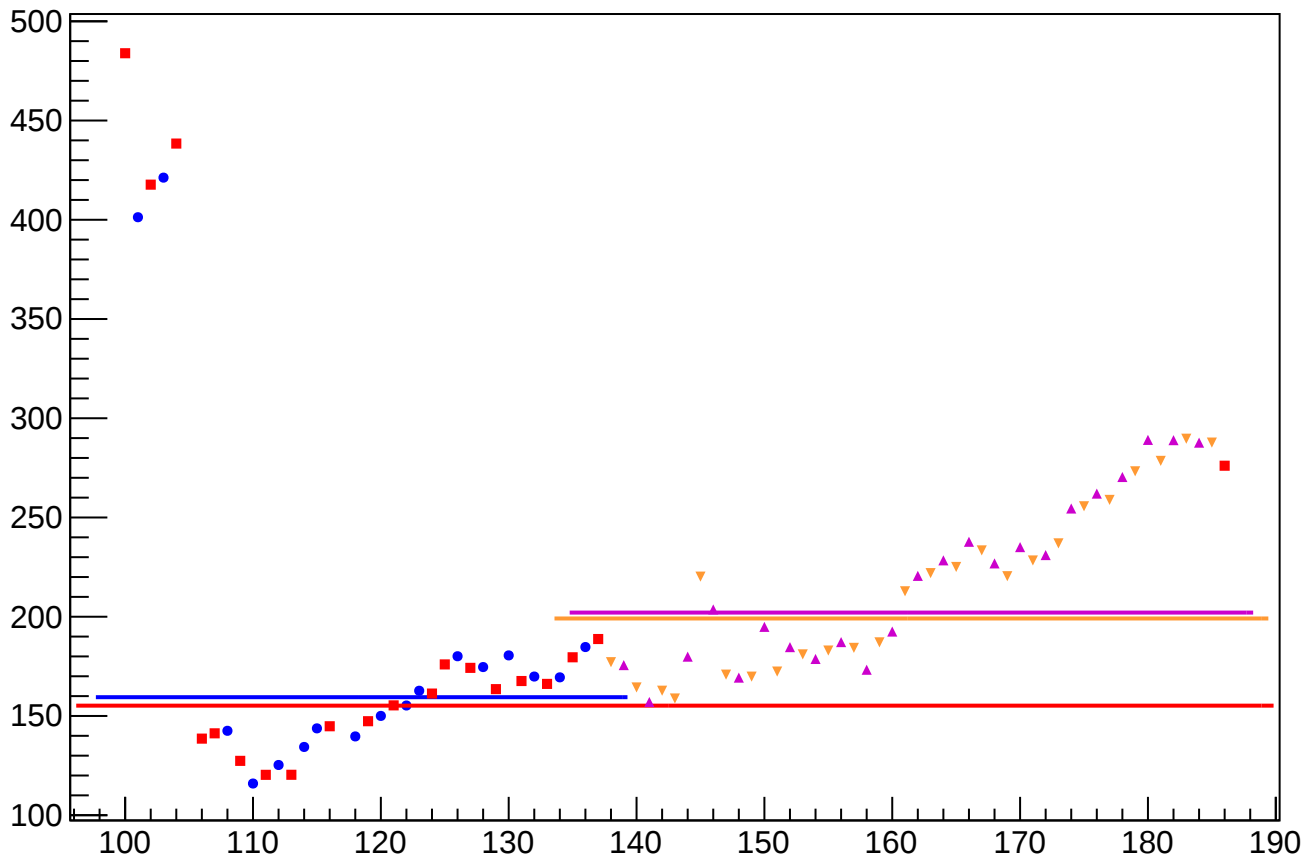
All: 195.333 $\pm$ 0.020 χ^2 /NDF: 4428911.7/84

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154784.970 $\pm$ 0.065	χ^2 /NDF: 265445259.7/16	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/16
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 154990.650 $\pm$ 0.044	χ^2 /NDF: 2320820466.7/16
Right Out: 155165.366 $\pm$ 0.060	χ^2 /NDF: 2037123651.3/19	In: 148421.862 $\pm$ 0.040	χ^2 /NDF: 16040471681.5/32
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 149043.150 $\pm$ 0.037	χ^2 /NDF: 20397256842.1/32
		All: 148750.641 $\pm$ 0.027	χ^2 /NDF: 365685439.0/32

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.460 $\pm$ 0.046 χ^2 /NDF: 1131650.0/16

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF: 1152231.0/24

Right Out: 155.201 $\pm$ 0.043 χ^2 /NDF: 1318465.4/19

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

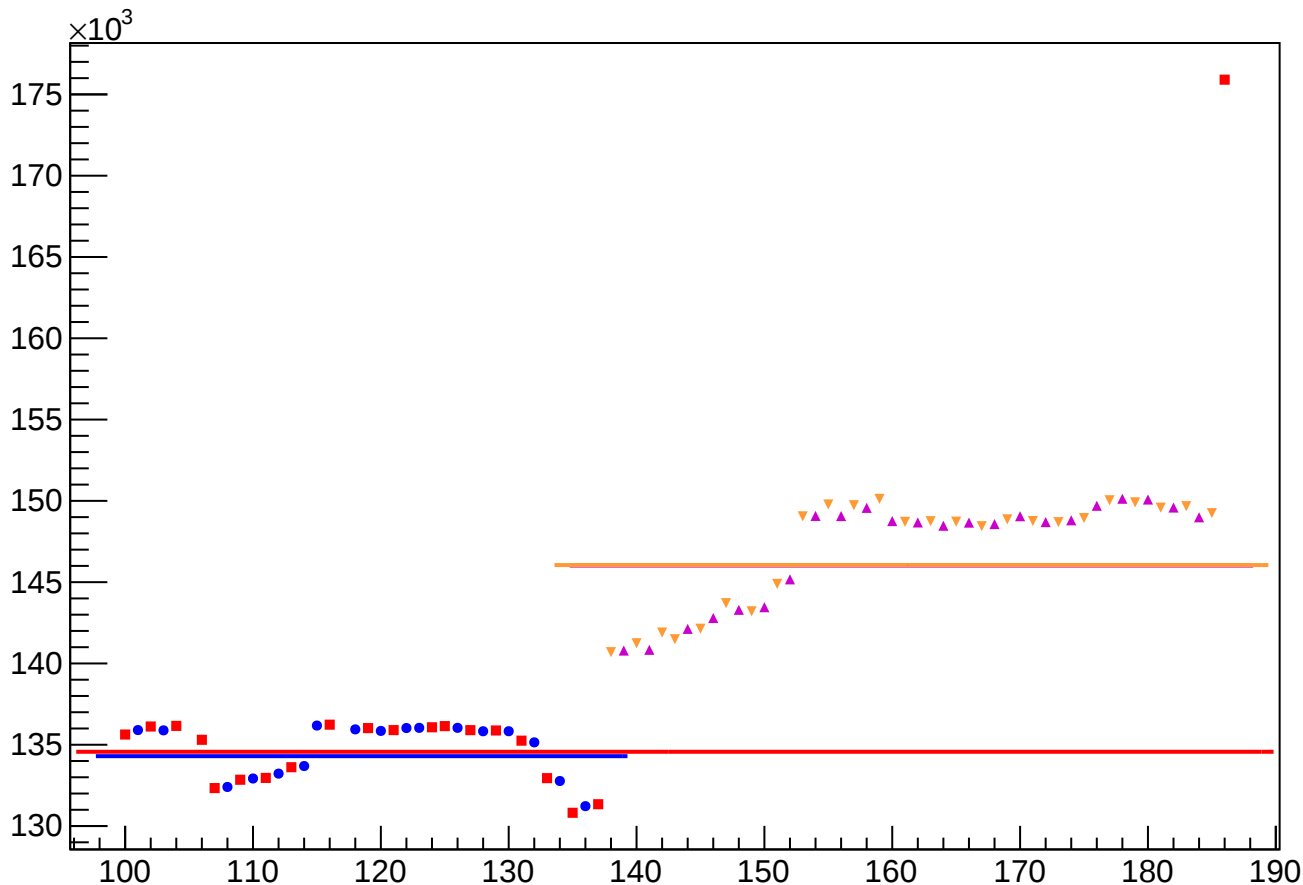
Right: 157.157 $\pm$ 0.031 χ^2 /NDF: 2454691.2/36

In: 186.562 $\pm$ 0.028 χ^2 /NDF: 2728526.1/39

Out: 182.363 $\pm$ 0.026 χ^2 /NDF: 3125887.2/44

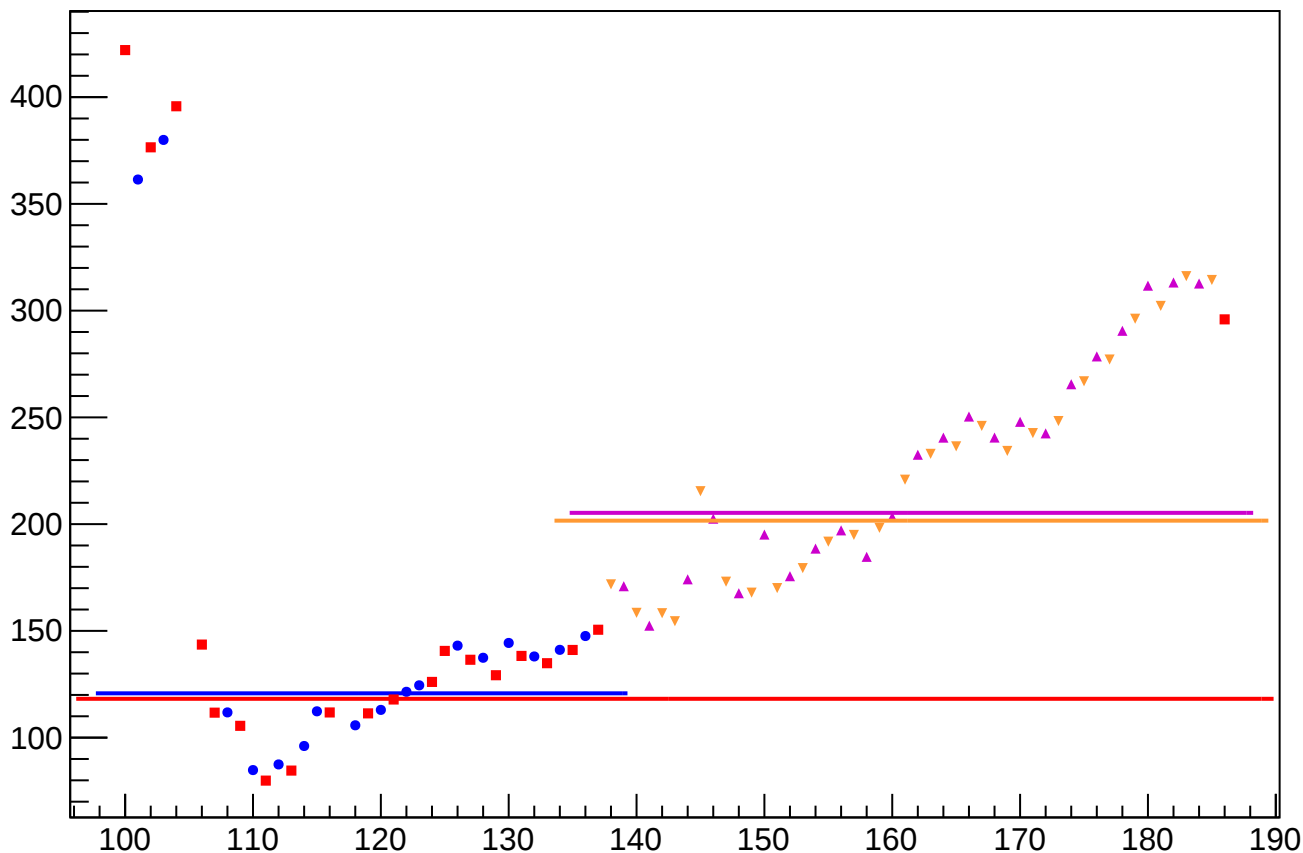
All: 184.340 $\pm$ 0.019 χ^2 /NDF: 5866361.6/84

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134297.022 $\pm$ 0.050	χ^2/NDF : 1147567257.7/16	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: 134441.440 $\pm$ 0.034	χ^2/NDF : 9866582200.6/3
Right Out: 134567.970 $\pm$ 0.047	χ^2/NDF : 8703609029.6/19	In: 140128.919 $\pm$ 0.036	χ^2/NDF : 32656197979.4/3
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 140173.851 $\pm$ 0.034	χ^2/NDF : 43036020564.4/3
		All: 140152.663 $\pm$ 0.025	χ^2/NDF : 756930543.4/1

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.752 $\pm$ 0.036 χ^2 /NDF: 1465247.5/16

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 118.187 $\pm$ 0.033 χ^2 /NDF: 1812624.0/19

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

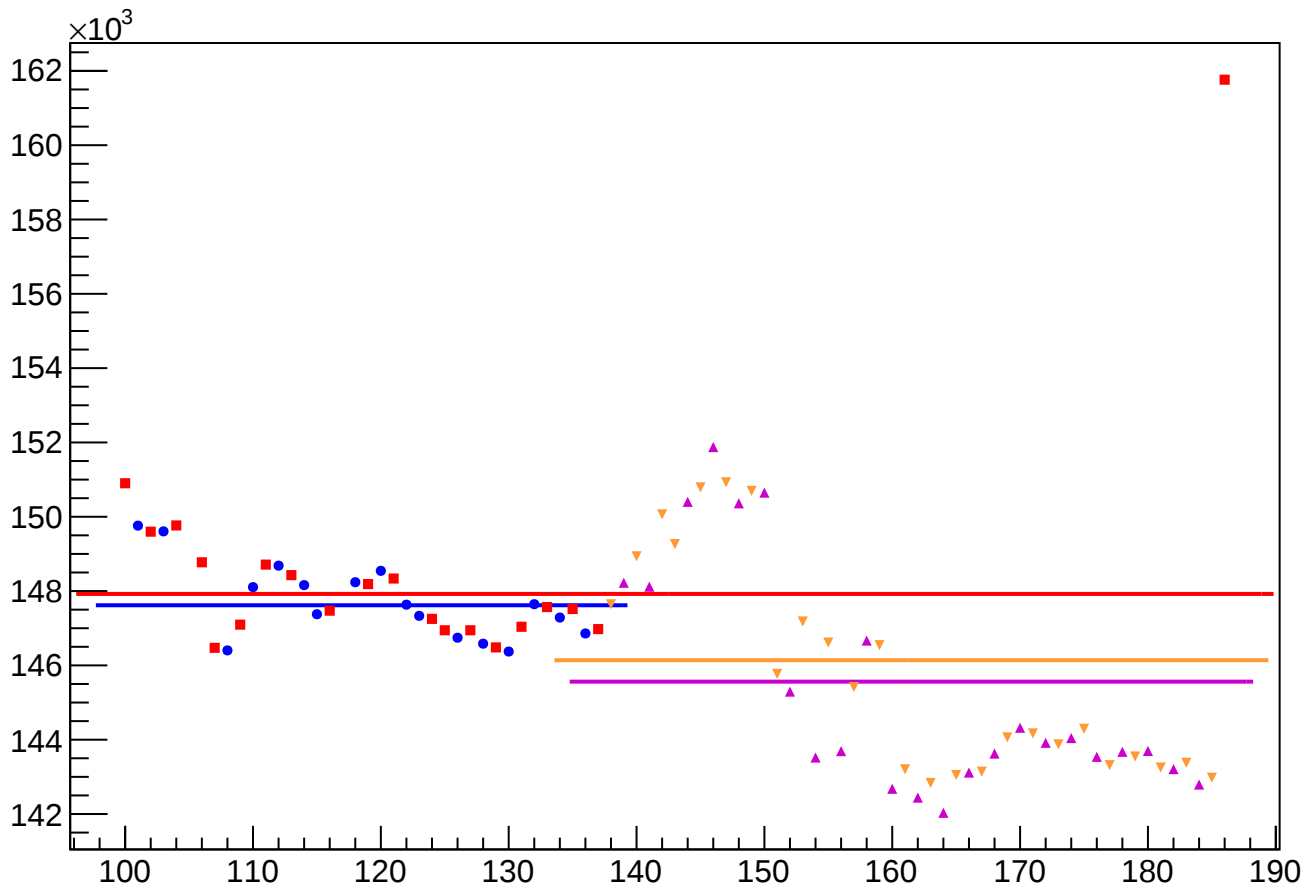
Right: 119.385 $\pm$ 0.024 χ^2 /NDF: 3280633.6/36

In: 162.806 $\pm$ 0.025 χ^2 /NDF:5689822.8/39

Out: 158.921 $\pm$ 0.024 χ^2 /NDF:6457068.9/44

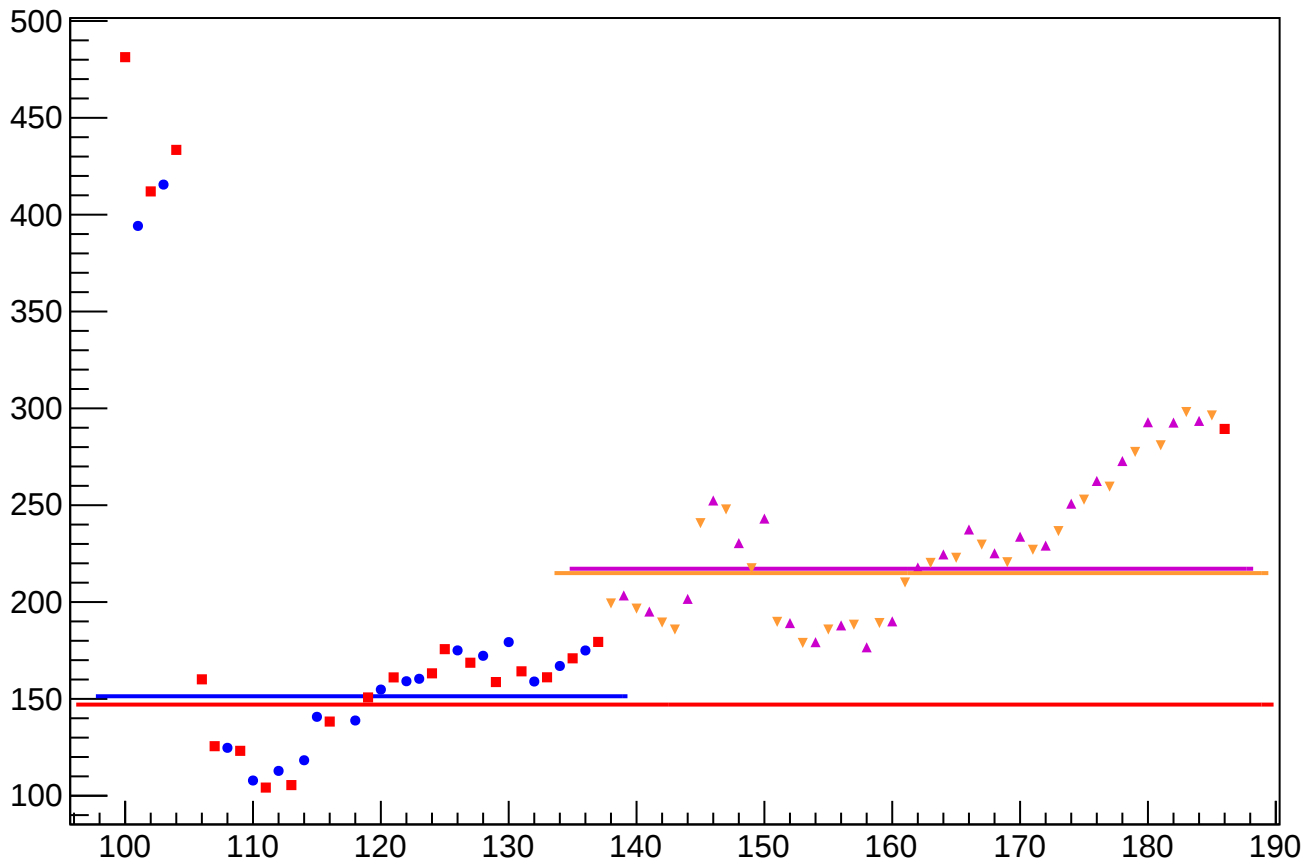
All: 160.753 $\pm$ 0.017 χ^2 /NDF: 12159387.9/84

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147618.243 $\pm$ 0.063	χ^2 /NDF: 198581777.1/16	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: 147782.787 $\pm$ 0.043	χ^2 /NDF: 1295632067.1/4
Right Out: 147923.608 $\pm$ 0.058	χ^2 /NDF: 1084222245.5/19	In: 146422.274 $\pm$ 0.040	χ^2 /NDF: 3880952284.6/39
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 146917.267 $\pm$ 0.038	χ^2 /NDF: 4319418713.9/4
		All: 146683.882 $\pm$ 0.028	χ^2 /NDF: 827941336.0/10

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.363 $\pm$ 0.044 χ^2 /NDF: 1259788.8/16

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 147.063 $\pm$ 0.041 χ^2 /NDF: 1557504.1/19

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

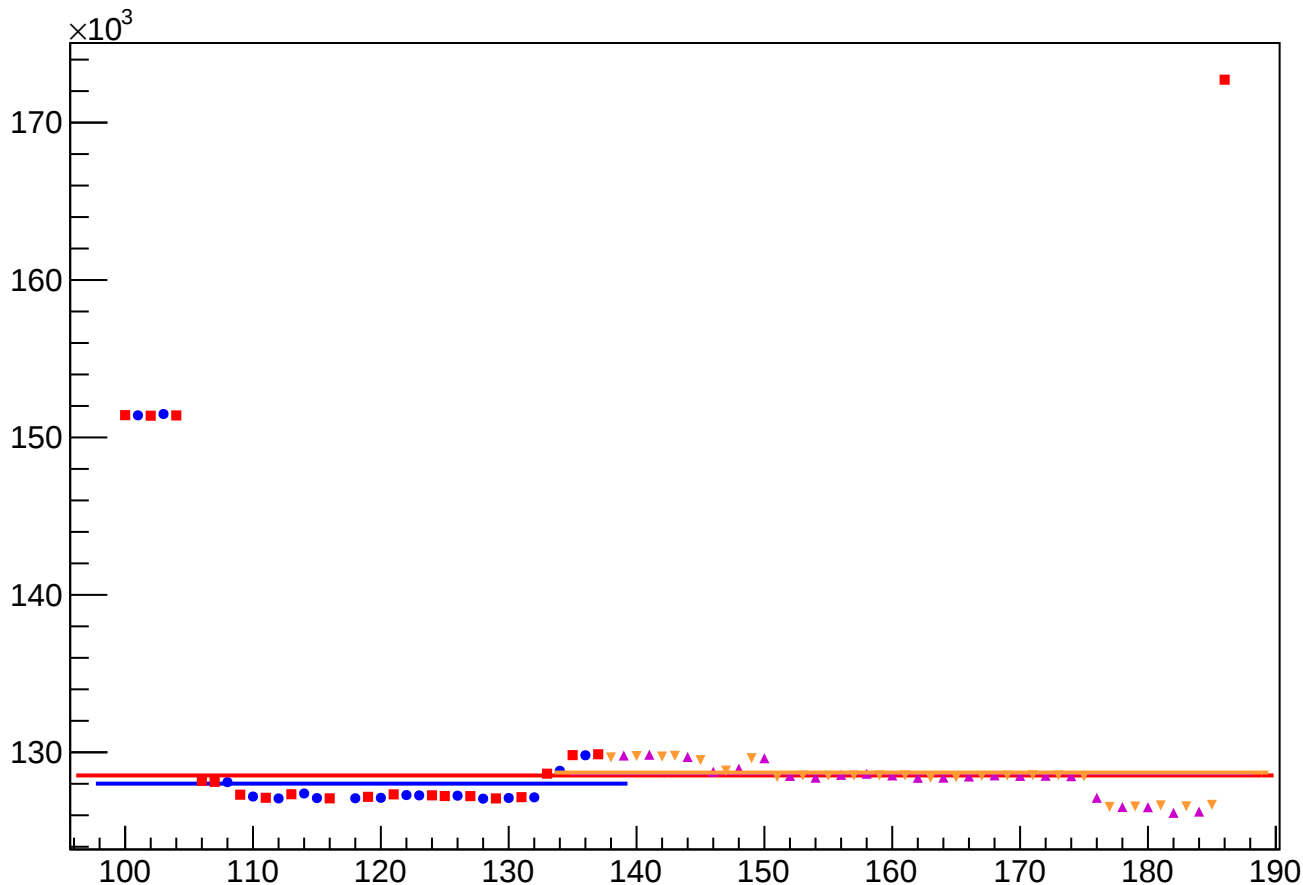
Right: 149.046 $\pm$ 0.030 χ^2 /NDF: 2822379.7/36

In: 189.665 $\pm$ 0.029 χ^2 /NDF: 3312261.9/39

Out: 185.349 $\pm$ 0.027 χ^2 /NDF: 3836604.8/44

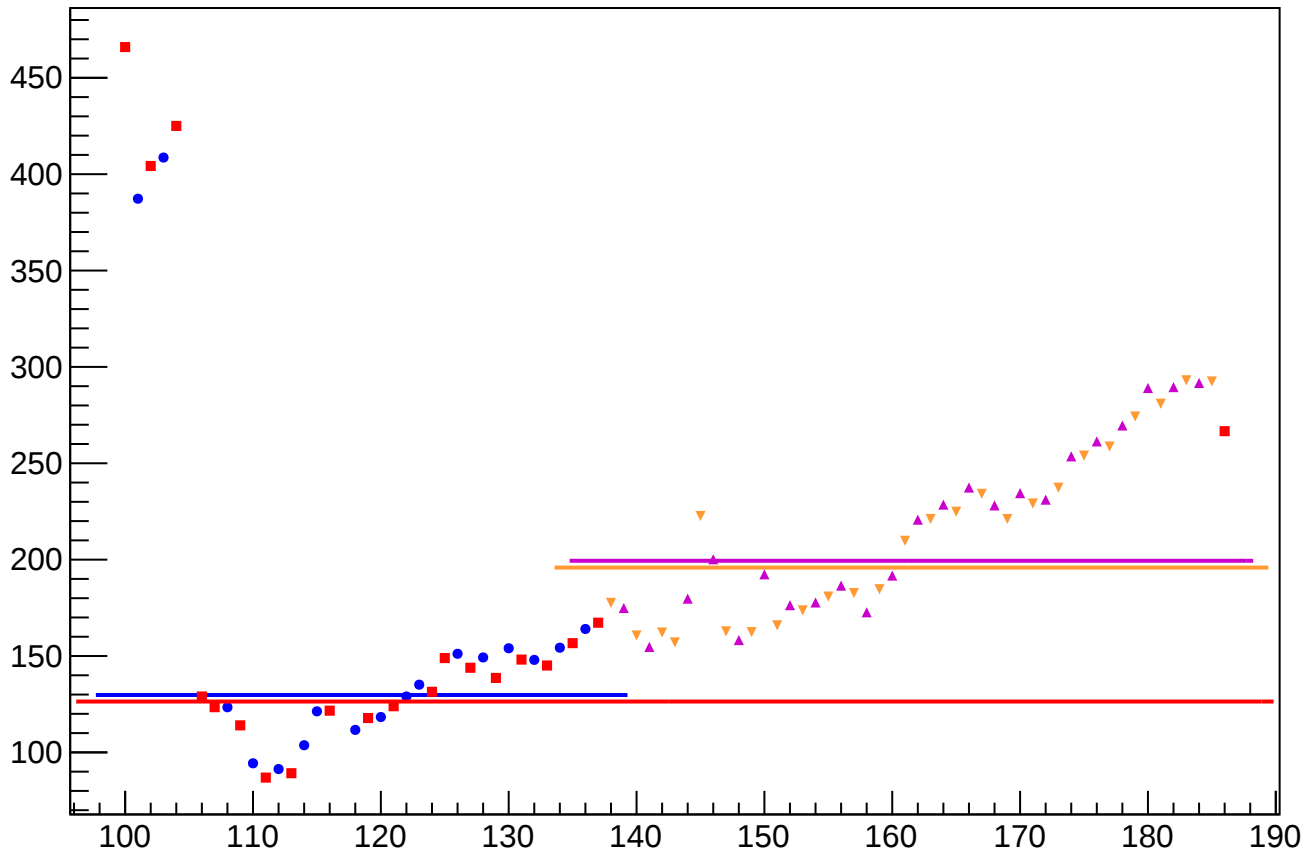
All: 187.384 $\pm$ 0.020 χ^2 /NDF: 7160885.5/84

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128009.906 $\pm$ 0.054	χ^2 /NDF: 4319099803.8/16	Left: 128691.898 $\pm$ 0.034	χ^2 /NDF: 681729975.4/47
Left Out: 128714.507 $\pm$ 0.047	χ^2 /NDF: 348178101.1/24	Right: 128290.588 $\pm$ 0.037	χ^2 /NDF: 18710124354.1
Right Out: 128529.843 $\pm$ 0.050	χ^2 /NDF: 14341372109.8/19	In: 128371.621 $\pm$ 0.036	χ^2 /NDF: 4733027237.6/39
Left In: 128667.013 $\pm$ 0.049	χ^2 /NDF: 333059477.6/22	Out: 128628.572 $\pm$ 0.034	χ^2 /NDF: 14696827206.0
		All: 128508.122 $\pm$ 0.025	χ^2 /NDF: 194564003

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.769 $\pm$ 0.038 χ^2/NDF : 1483741.9/16

Left Out: 195.883 $\pm$ 0.033 χ^2/NDF :1313361.5/24

Right Out: 126.380 $\pm$ 0.035 χ^2/NDF : 1739305.5/19

Left In: 199.413 $\pm$ 0.035 χ^2/NDF :1165698.7/22

Left: 197.564 $\pm$ 0.024 χ^2/NDF : 2484502.8/47

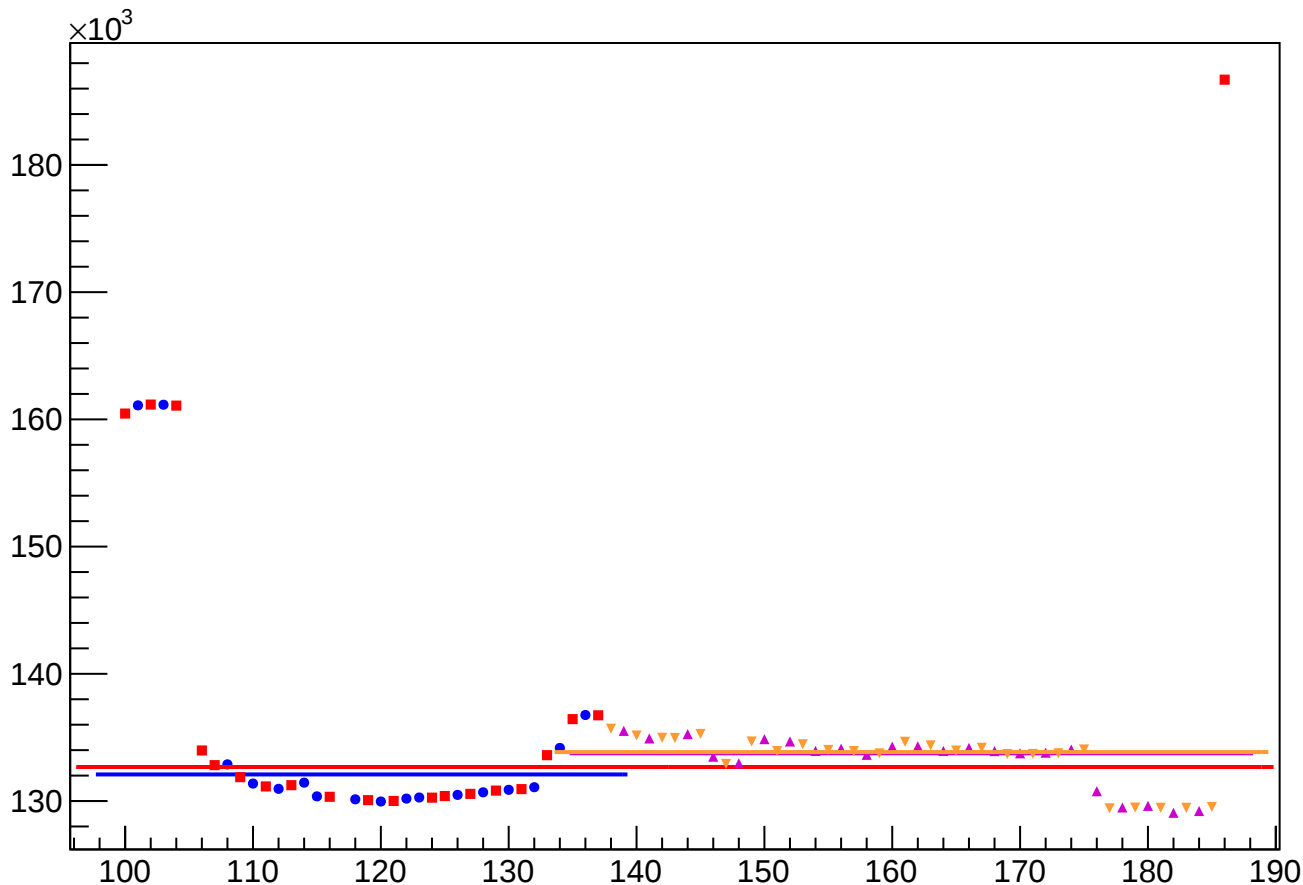
Right: 127.939 $\pm$ 0.026 χ^2/NDF : 3227266.9/36

In: 168.106 $\pm$ 0.026 χ^2/NDF :4466243.9/39

Out: 163.539 $\pm$ 0.024 χ^2/NDF :5114374.2/44

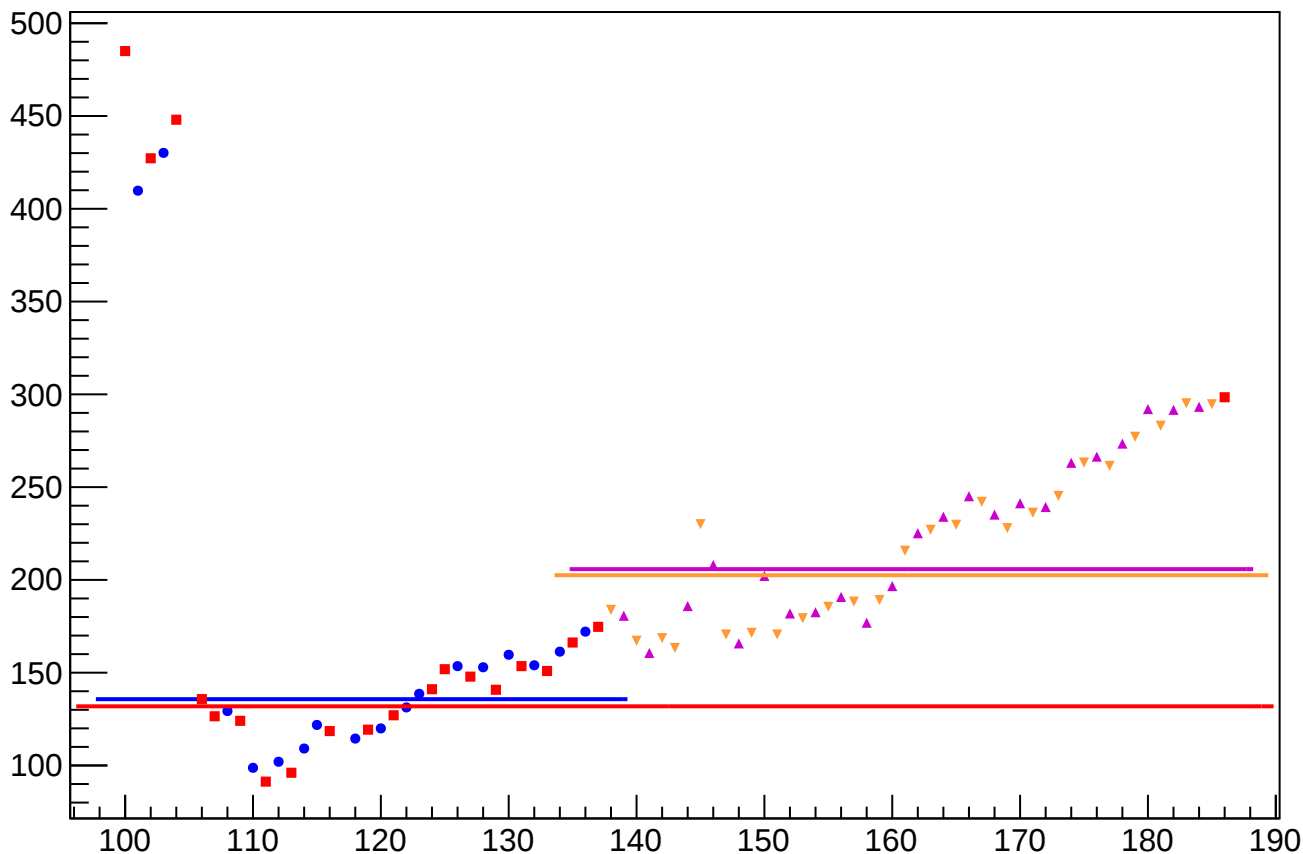
All: 165.680 $\pm$ 0.018 χ^2/NDF : 9597390.3/84

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132090.159+/-0.057	χ^2/NDF : 6731961368.4/16	Left: 133802.452+/-0.035	χ^2/NDF : 2036267179.3/4
Left Out: 133850.586+/-0.048	χ^2/NDF : 1080107831.1/24	Right: 132405.799+/-0.038	χ^2/NDF : 25274988592.1/16
Right Out: 132674.496+/-0.052	χ^2/NDF : 18485474706.3/19	In: 133014.023+/-0.038	χ^2/NDF : 8164426549.6/39
Left In: 133749.630+/-0.051	χ^2/NDF : 954069486.7/22	Out: 133309.421+/-0.035	χ^2/NDF : 19839298895.9/16
		All: 133170.844+/-0.026	χ^2/NDF : 280363350.0/16

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.730 $\pm$ 0.040 χ^2 /NDF: 1442560.7/16

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 131.874 $\pm$ 0.037 χ^2 /NDF: 1738329.1/19

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

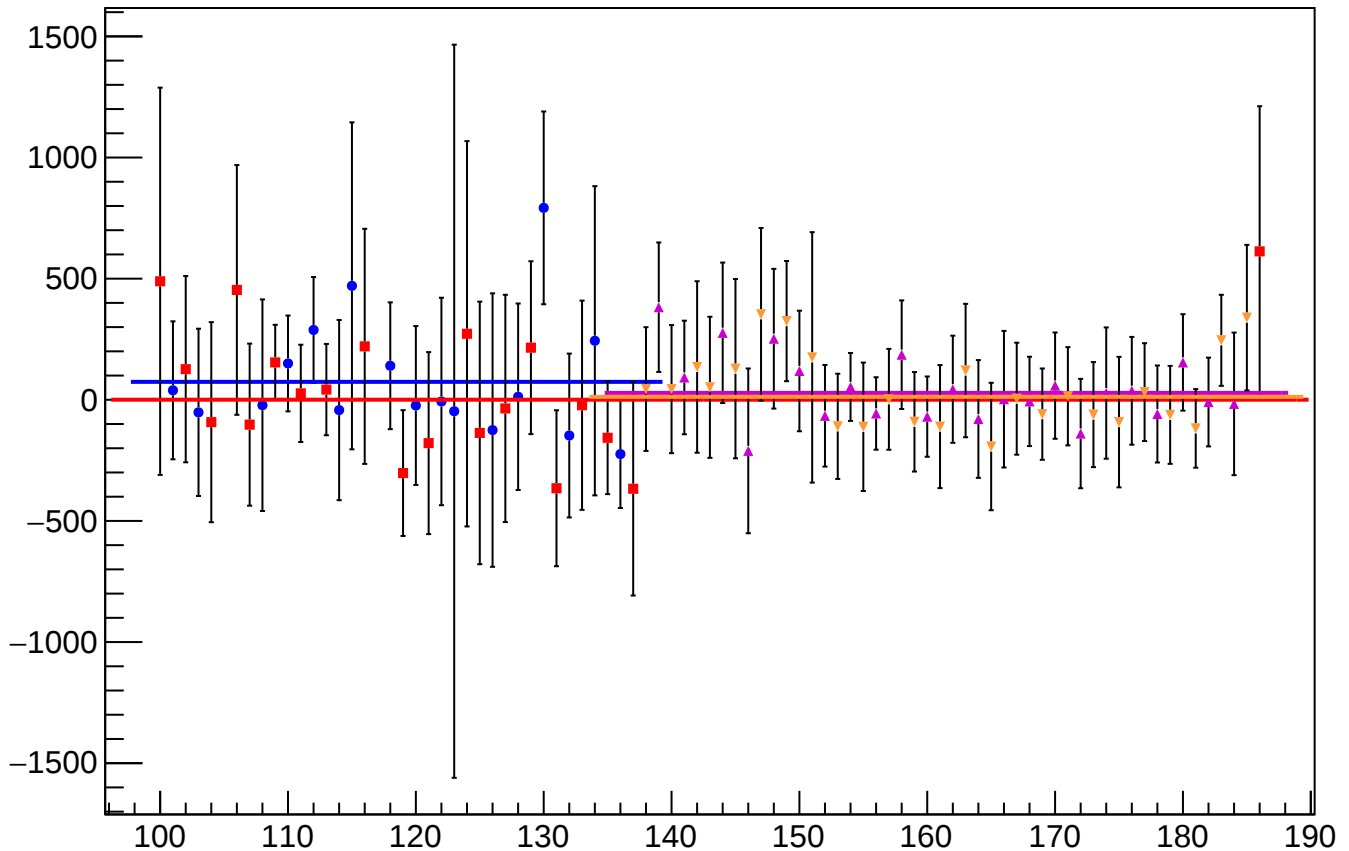
Right: 133.647 $\pm$ 0.027 χ^2 /NDF: 3185902.7/36

In: 174.744 $\pm$ 0.027 χ^2 /NDF:4243113.4/39

Out: 170.017 $\pm$ 0.025 χ^2 /NDF:4925982.7/44

All: 172.235 $\pm$ 0.018 χ^2 /NDF: 9185797.1/84

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.036 $\pm$ 79.233 χ^2 /NDF: 7.6/16

Left Out: 12.180 $\pm$ 47.531 χ^2 /NDF:8.6/24

Right Out: 0.333 $\pm$ 69.605 χ^2 /NDF: 8.3/19

Left In: 28.452 $\pm$ 44.688 χ^2 /NDF:6.7/22

Left: 20.817 $\pm$ 32.558 χ^2 /NDF: 15.3/47

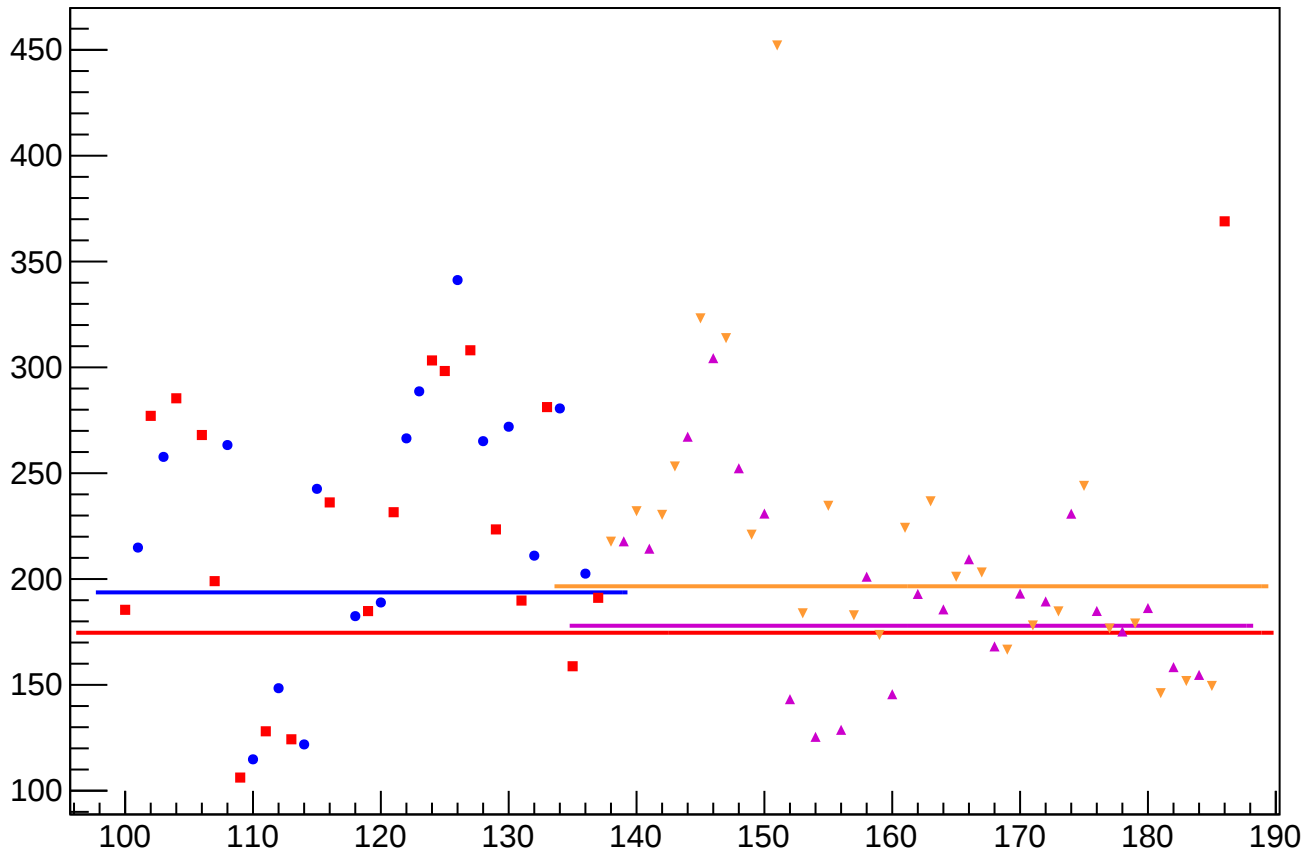
Right: 32.437 $\pm$ 52.293 χ^2 /NDF: 16.4/36

In: 39.453 $\pm$ 38.924 χ^2 /NDF:14.6/39

Out: 8.413 $\pm$ 39.252 χ^2 /NDF:16.9/44

All: 24.063 $\pm$ 27.639 χ^2 /NDF: 31.8/84

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.695 $\pm$ 0.056 χ^2/NDF : 1018039.6/16

Left Out: 196.576 $\pm$ 0.034 χ^2/NDF : 1778719.0/24

Right Out: 174.623 $\pm$ 0.049 χ^2/NDF : 1787822.7/19

Left In: 177.933 $\pm$ 0.032 χ^2/NDF : 1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2/NDF : 3547823.4/47

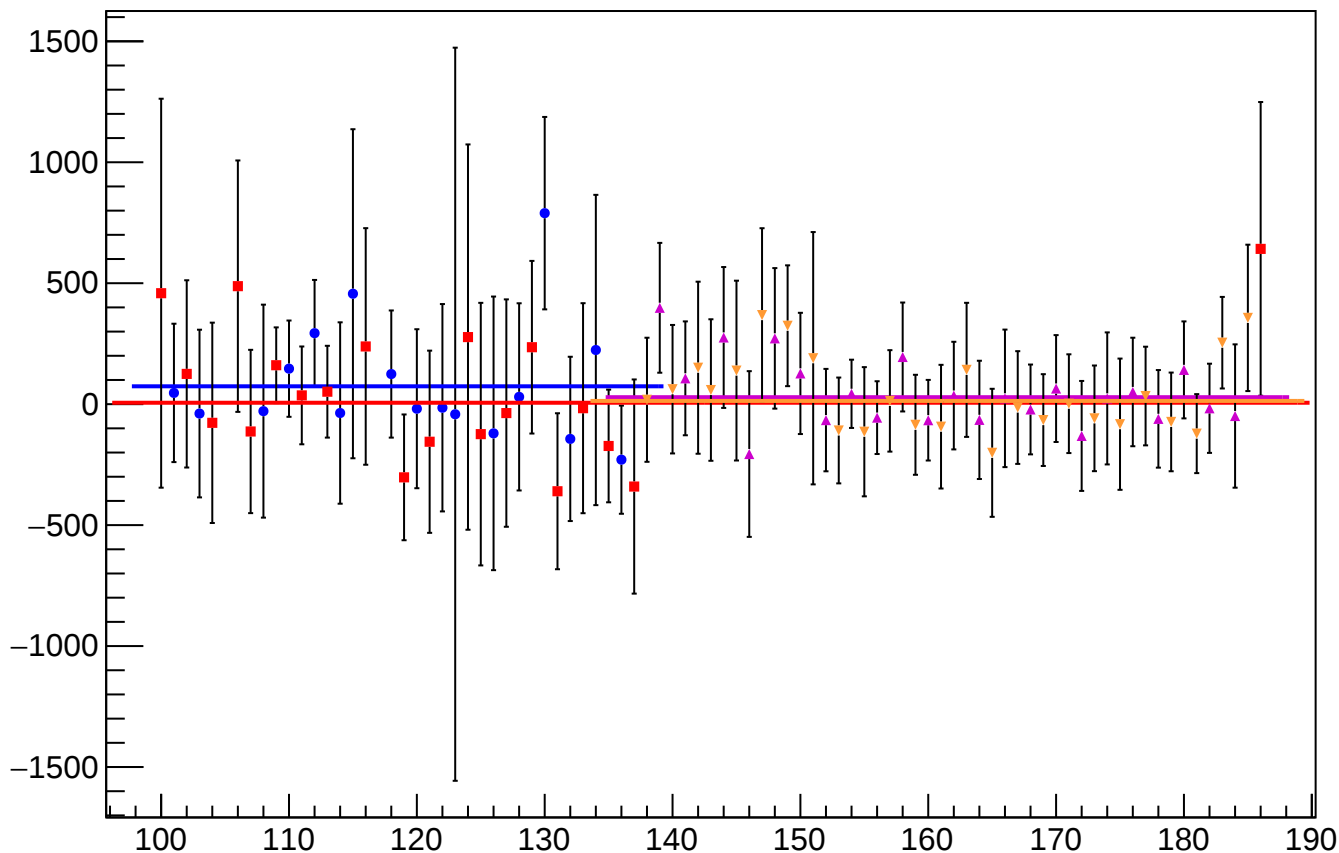
Right: 182.931 $\pm$ 0.037 χ^2/NDF : 2871269.3/36

In: 181.737 $\pm$ 0.028 χ^2/NDF : 2683869.8/39

Out: 189.595 $\pm$ 0.028 χ^2/NDF : 3702222.4/44

All: 185.633 $\pm$ 0.020 χ^2/NDF : 6426504.0/84

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 73.822+/-79.620 χ^2/NDF : 7.5/16

Left Out: 13.395+/-47.862 χ^2/NDF : 9.0/24

Right Out: 5.845+/-69.980 χ^2/NDF : 8.5/19

Left In: 28.806+/-44.980 χ^2/NDF : 6.8/22

Left: 21.578+/-32.777 χ^2/NDF : 15.9/47

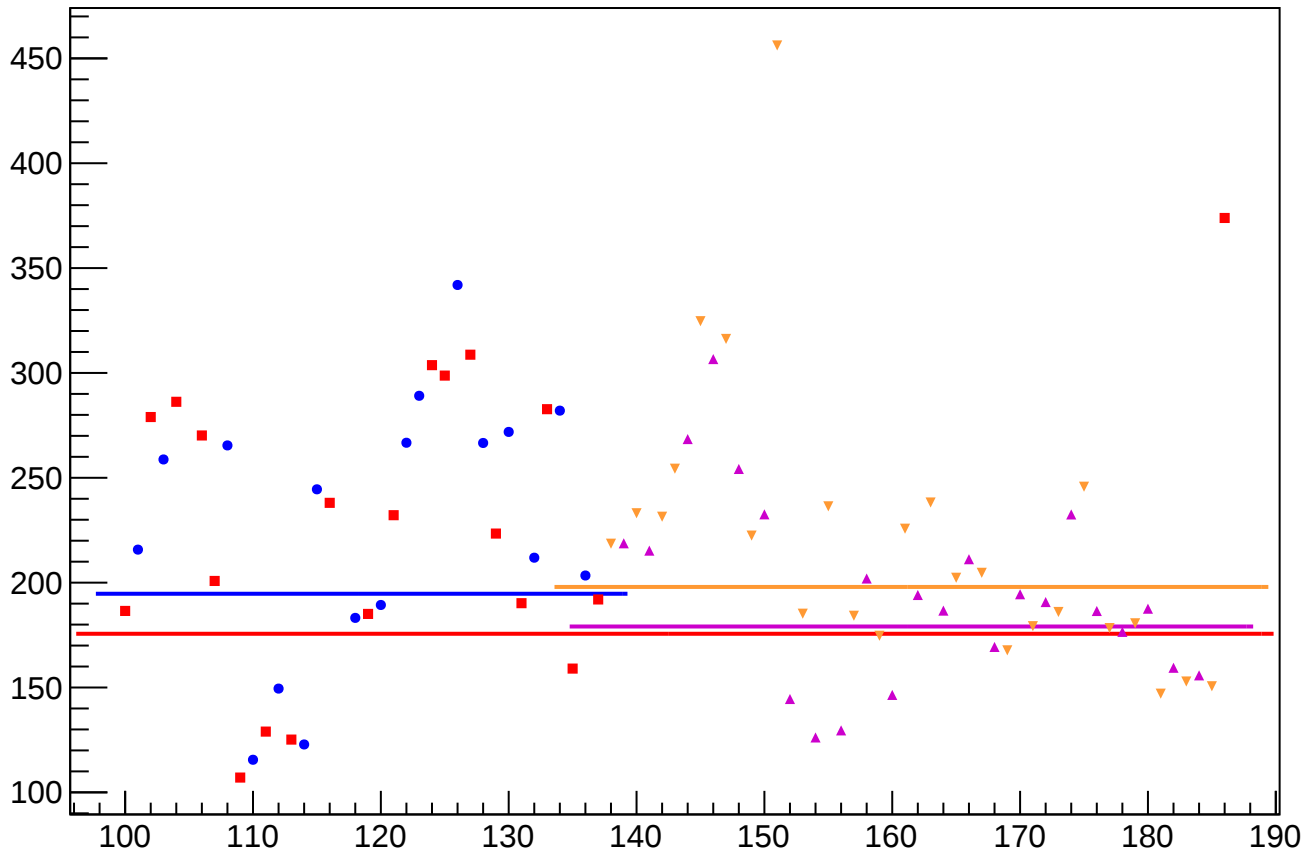
Right: 35.471+/-52.563 χ^2/NDF : 16.5/36

In: 39.697+/-39.163 χ^2/NDF : 14.6/39

Out: 10.988+/-39.506 χ^2/NDF : 17.5/44

All: 25.468+/-27.813 χ^2/NDF : 32.4/84

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.704 $\pm$ 0.056 χ^2 /NDF: 1009606.0/16

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 175.623 $\pm$ 0.049 χ^2 /NDF: 1778387.4/19

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

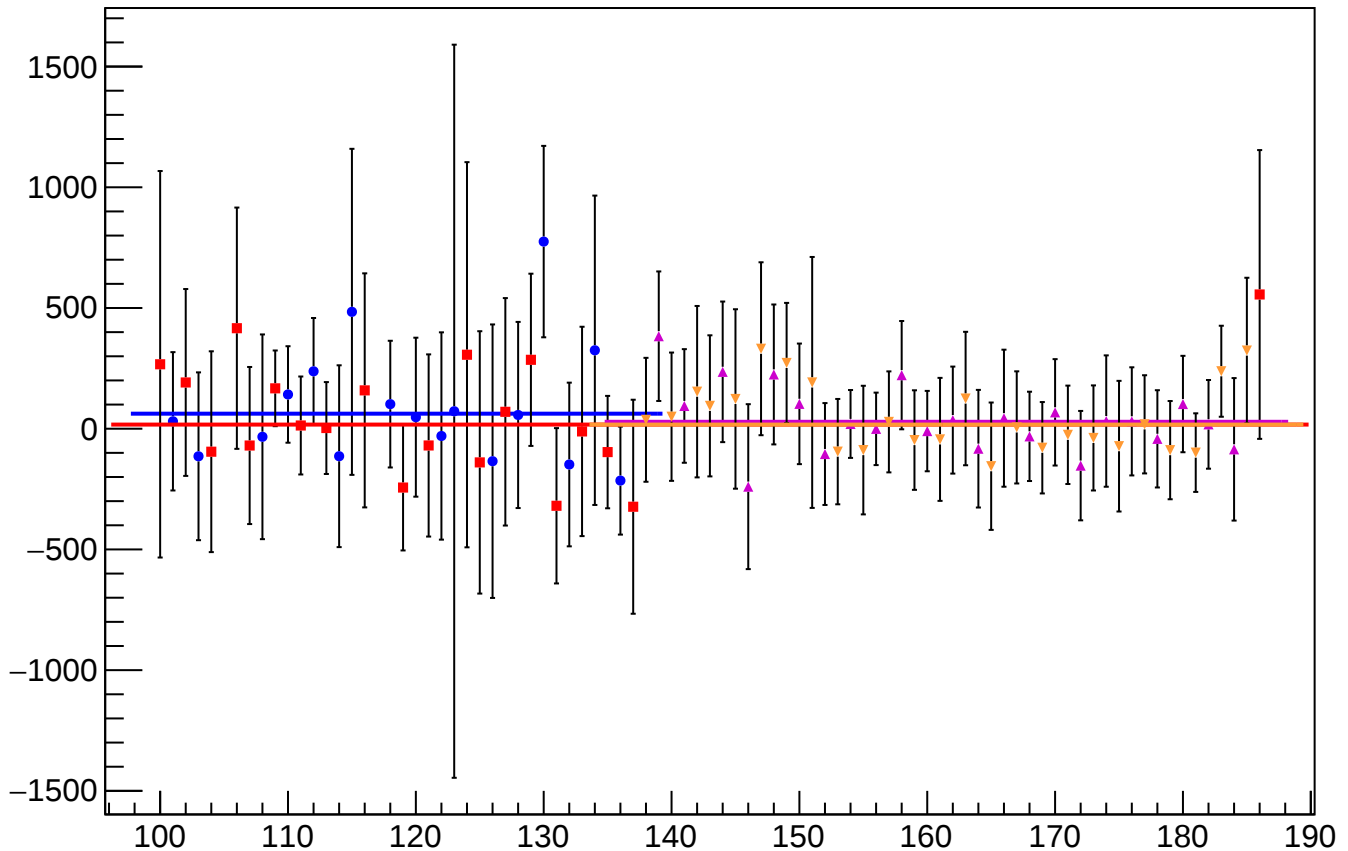
Right: 183.939 $\pm$ 0.037 χ^2 /NDF: 2852796.9/36

In: 182.867 $\pm$ 0.028 χ^2 /NDF:2673030.7/39

Out: 190.836 $\pm$ 0.028 χ^2 /NDF:3691643.1/44

All: 186.817 $\pm$ 0.020 χ^2 /NDF: 6405718.6/84

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 62.284 $\pm$ 79.616 χ^2 /NDF: 7.2/16

Left Out: 17.142 $\pm$ 47.738 χ^2 /NDF: 7.1/24

Right Out: 17.123 $\pm$ 69.890 χ^2 /NDF: 6.7/19

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

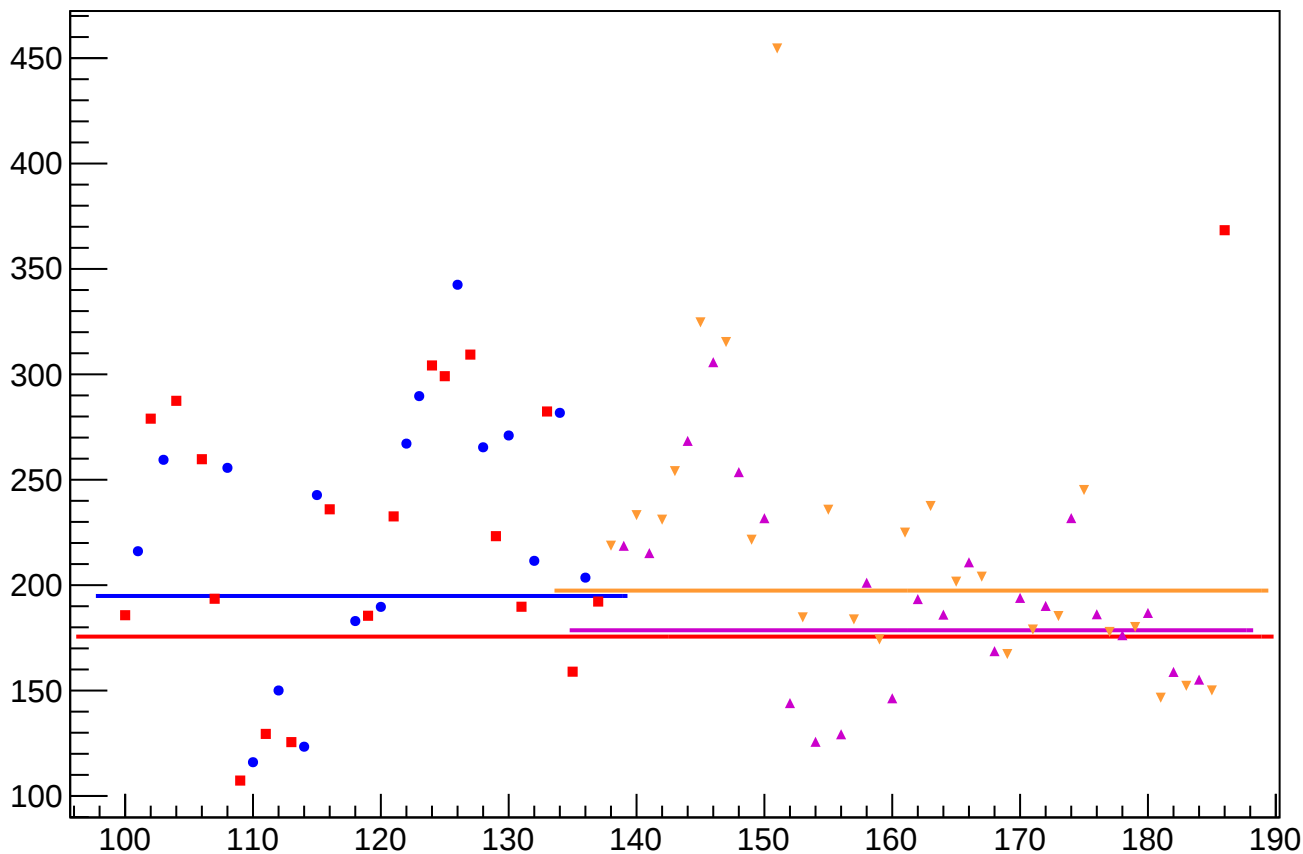
Right: 36.778 $\pm$ 52.524 χ^2 /NDF: 14.1/36

In: 36.759 $\pm$ 39.082 χ^2 /NDF: 13.5/39

Out: 17.136 $\pm$ 39.420 χ^2 /NDF: 13.8/44

All: 27.032 $\pm$ 27.754 χ^2 /NDF: 27.4/84

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.868+/-0.056 χ^2/NDF : 987545.2/16

Left Out: 197.422+/-0.034 χ^2/NDF : 1780261.9/24

Right Out: 175.597+/-0.049 χ^2/NDF : 1749789.5/19

Left In: 178.601+/-0.032 χ^2/NDF : 1608998.1/22

Left: 187.427+/-0.023 χ^2/NDF : 3554344.1/47

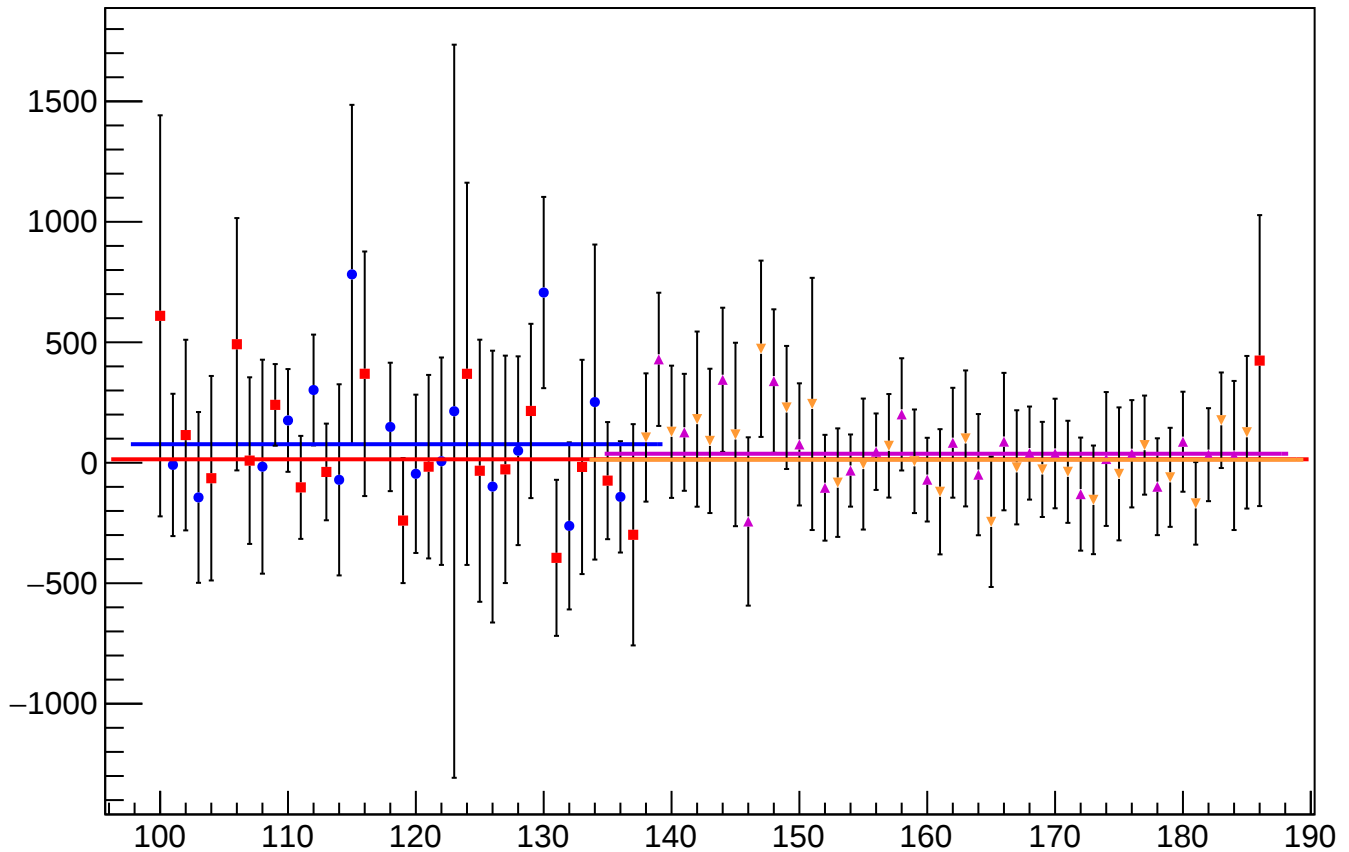
Right: 183.984+/-0.037 χ^2/NDF : 2803519.0/36

In: 182.521+/-0.028 χ^2/NDF : 2659916.3/39

Out: 190.478+/-0.028 χ^2/NDF : 3663042.5/44

All: 186.466+/-0.020 χ^2/NDF : 6364057.8/84

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 77.030 $\pm$ 82.098 χ^2 /NDF: 7.6/16

Left Out: 12.632 $\pm$ 49.242 χ^2 /NDF: 7.5/24

Right Out: 14.406 $\pm$ 72.791 χ^2 /NDF: 8.2/19

Left In: 37.460 $\pm$ 46.479 χ^2 /NDF: 7.6/22

Left: 25.762 $\pm$ 33.800 χ^2 /NDF: 15.3/47

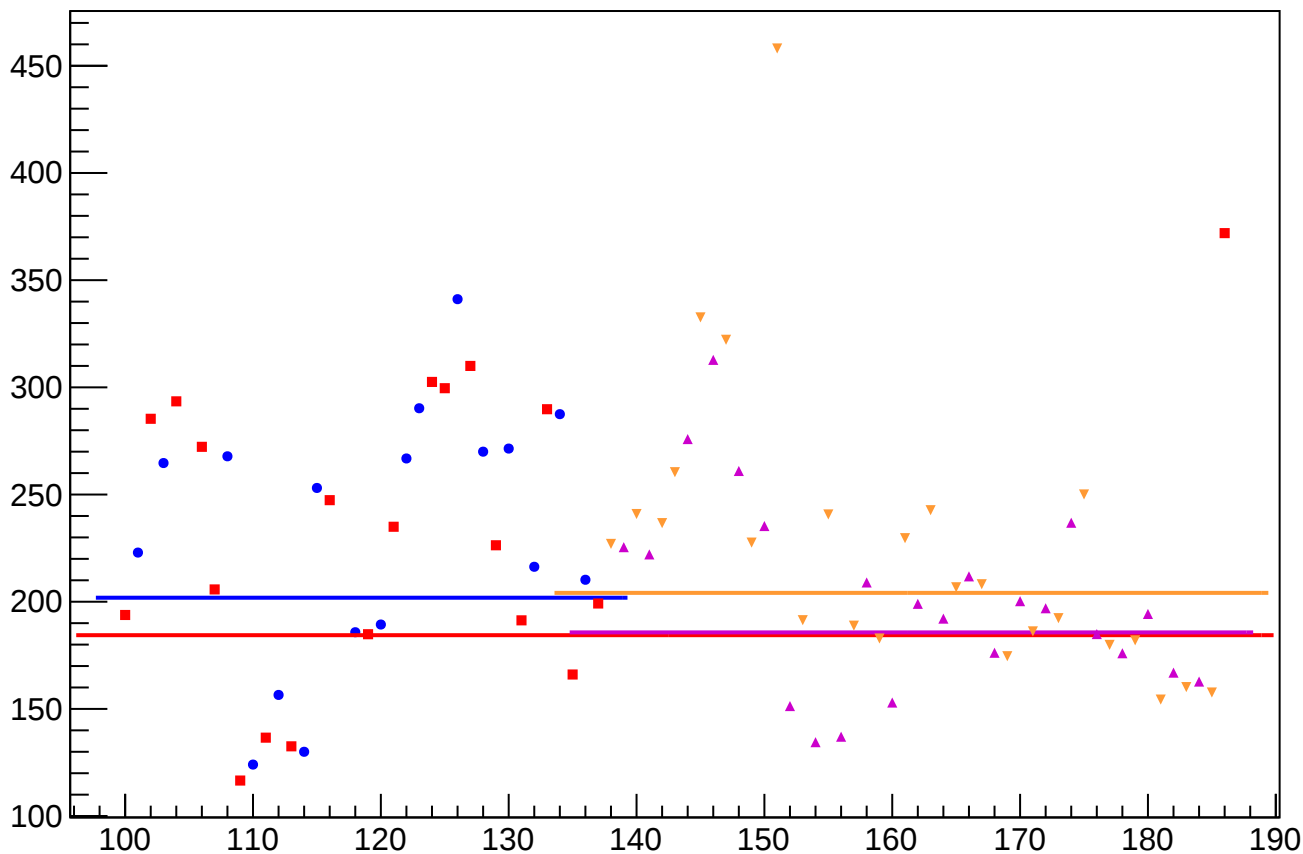
Right: 41.968 $\pm$ 54.466 χ^2 /NDF: 16.2/36

In: 47.064 $\pm$ 40.447 χ^2 /NDF: 15.4/39

Out: 13.189 $\pm$ 40.786 χ^2 /NDF: 15.8/44

All: 30.268 $\pm$ 28.719 χ^2 /NDF: 31.5/84

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.873 $\pm$ 0.058 χ^2/NDF : 884412.3/16

Left Out: 204.132 $\pm$ 0.035 χ^2/NDF : 1672287.6/24

Right Out: 184.392 $\pm$ 0.051 χ^2/NDF : 1569198.0/19

Left In: 185.694 $\pm$ 0.033 χ^2/NDF : 1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2/NDF : 3268347.9/47

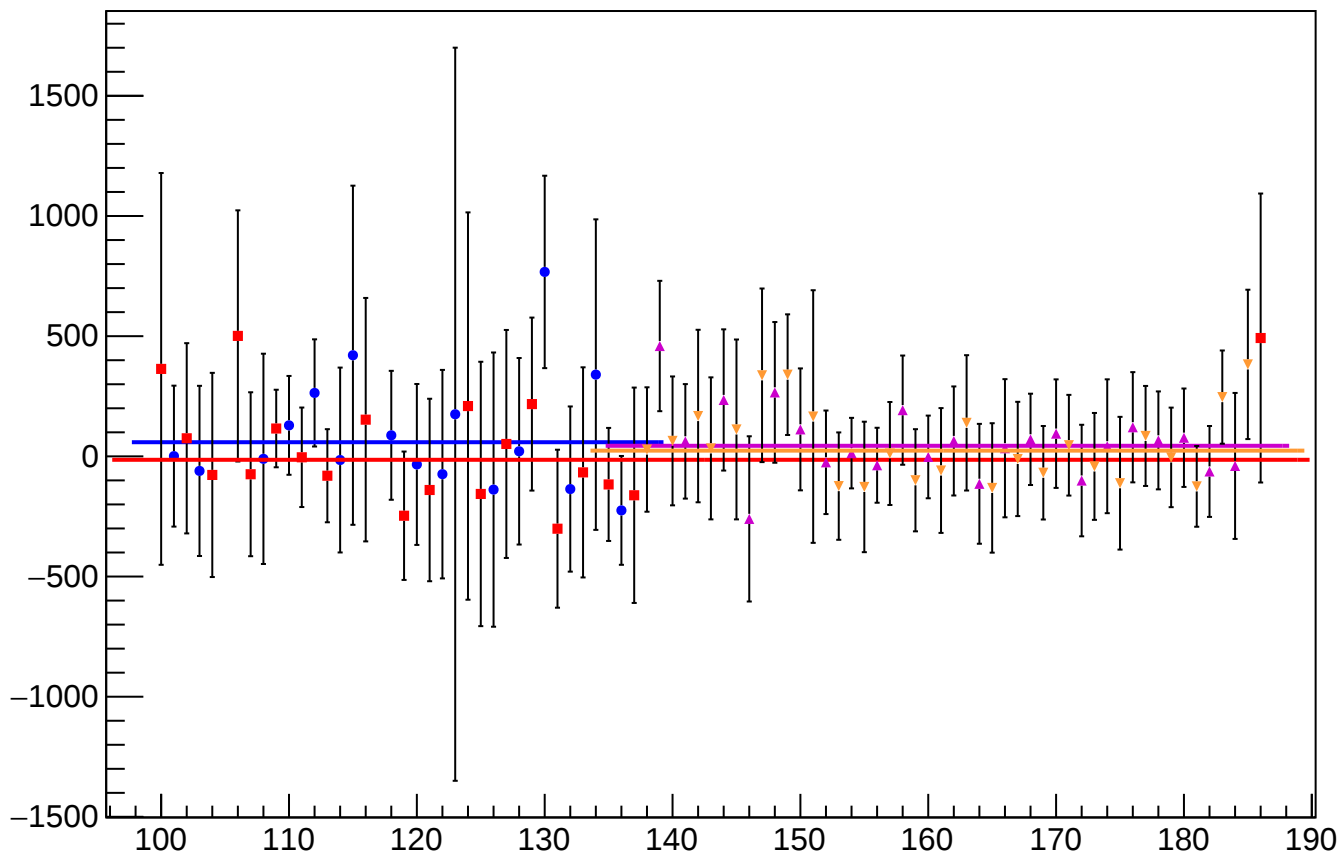
Right: 192.086 $\pm$ 0.039 χ^2/NDF : 2504378.2/36

In: 189.621 $\pm$ 0.029 χ^2/NDF : 2391001.4/39

Out: 197.934 $\pm$ 0.029 χ^2/NDF : 3342392.3/44

All: 193.743 $\pm$ 0.020 χ^2/NDF : 5775290.1/84

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 58.835 $\pm$ 81.036 χ^2 /NDF: 7.0/16

Left Out: 23.843 $\pm$ 48.783 χ^2 /NDF:8.5/24

Right Out: -14.314 $\pm$ 71.371 χ^2 /NDF: 5.4/19

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

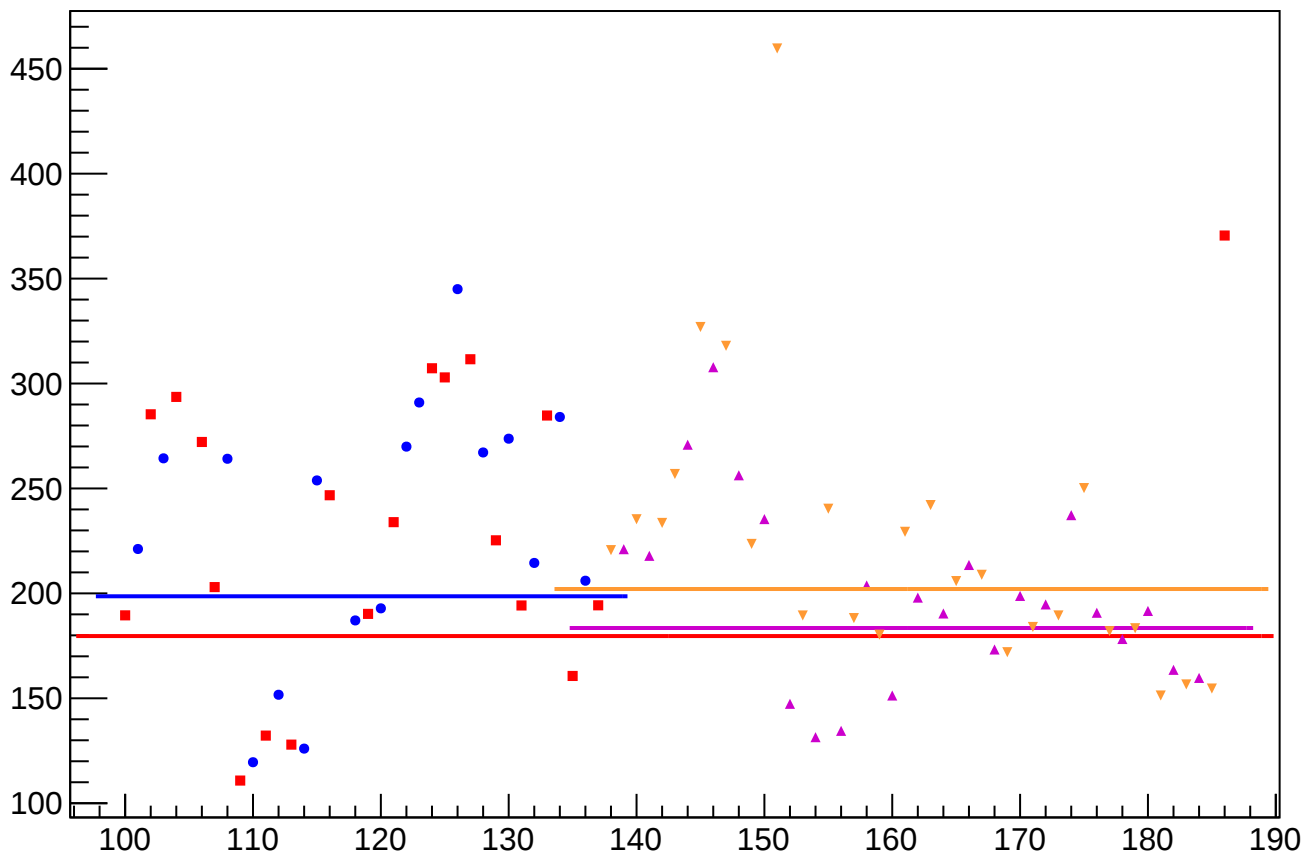
Right: 17.640 $\pm$ 53.560 χ^2 /NDF: 12.8/36

In: 47.597 $\pm$ 39.992 χ^2 /NDF:13.5/39

Out: 11.693 $\pm$ 40.274 χ^2 /NDF:14.1/44

All: 29.771 $\pm$ 28.378 χ^2 /NDF: 28.0/84

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.615 $\pm$ 0.057 χ^2/NDF : 965079.3/16

Left Out: 202.081 $\pm$ 0.034 χ^2/NDF : 1692787.9/24

Right Out: 179.662 $\pm$ 0.050 χ^2/NDF : 1723930.9/19

Left In: 183.498 $\pm$ 0.033 χ^2/NDF : 1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2/NDF : 3329846.6/47

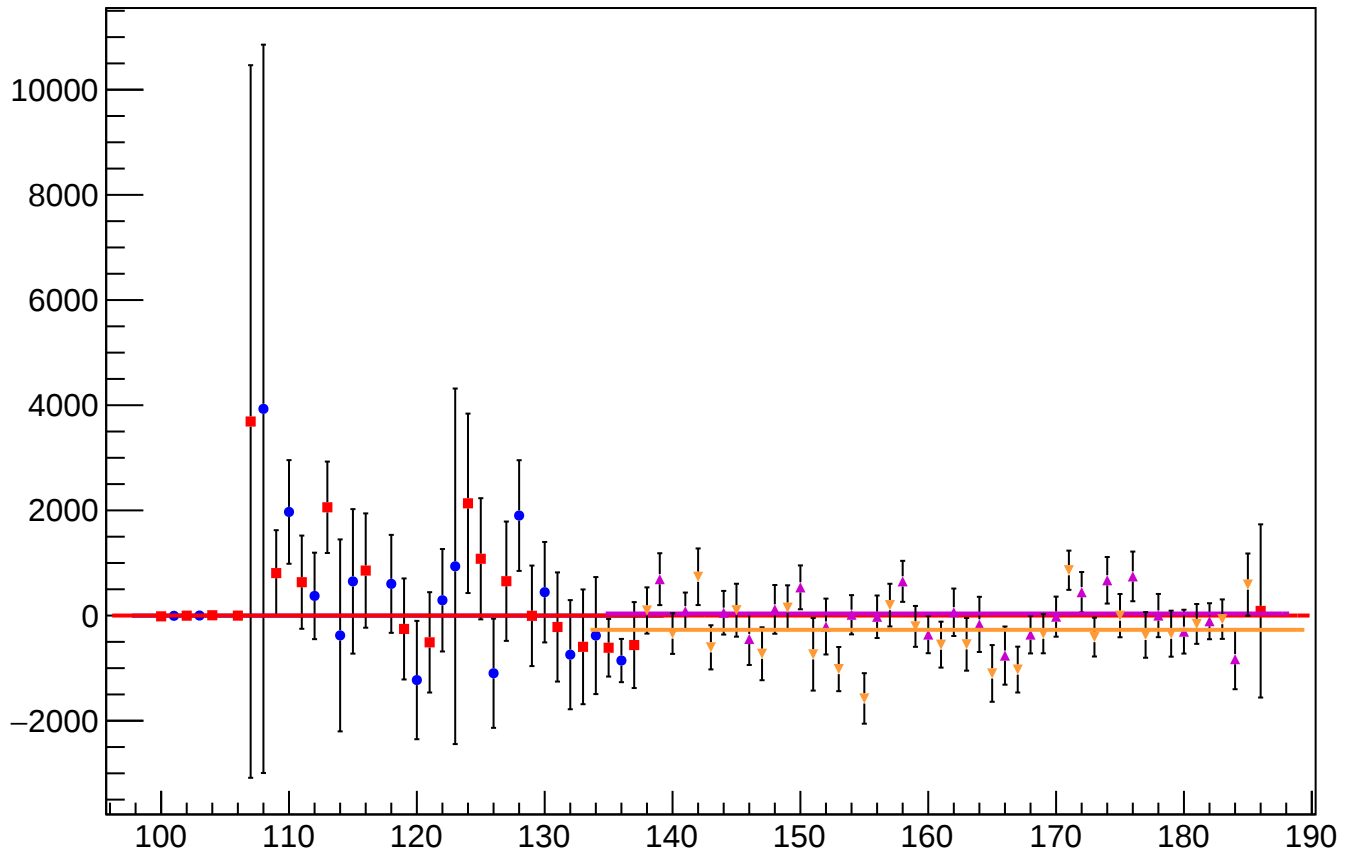
Right: 187.941 $\pm$ 0.038 χ^2/NDF : 2750621.0/36

In: 187.180 $\pm$ 0.028 χ^2/NDF : 2501109.3/39

Out: 194.942 $\pm$ 0.028 χ^2/NDF : 3551217.3/44

All: 191.034 $\pm$ 0.020 χ^2/NDF : 6089735.8/84

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.530 ± 2.251 χ^2/NDF : 17.4/16

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.726 ± 2.111 χ^2/NDF : 19.1/19

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

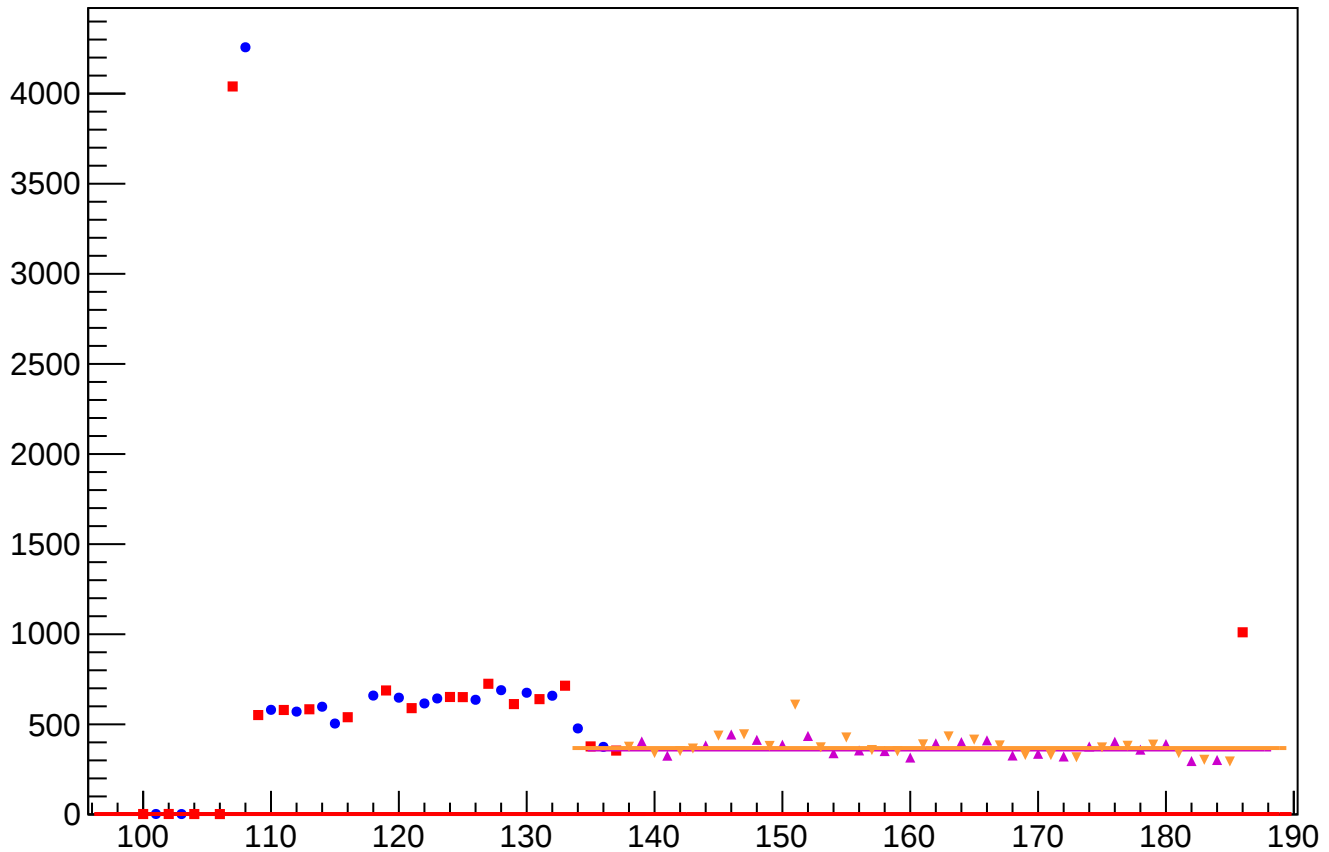
Right: -0.329 ± 1.540 χ^2/NDF : 37.1/36

In: -1.503 ± 2.251 χ^2/NDF : 37.9/39

Out: 0.566 ± 2.111 χ^2/NDF : 67.0/44

All: -0.402 ± 1.540 χ^2/NDF : 105.3/84

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.456+/-0.002 χ^2/NDF : 10808630.7/16

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.438+/-0.001 χ^2/NDF : 11851162.3/19

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

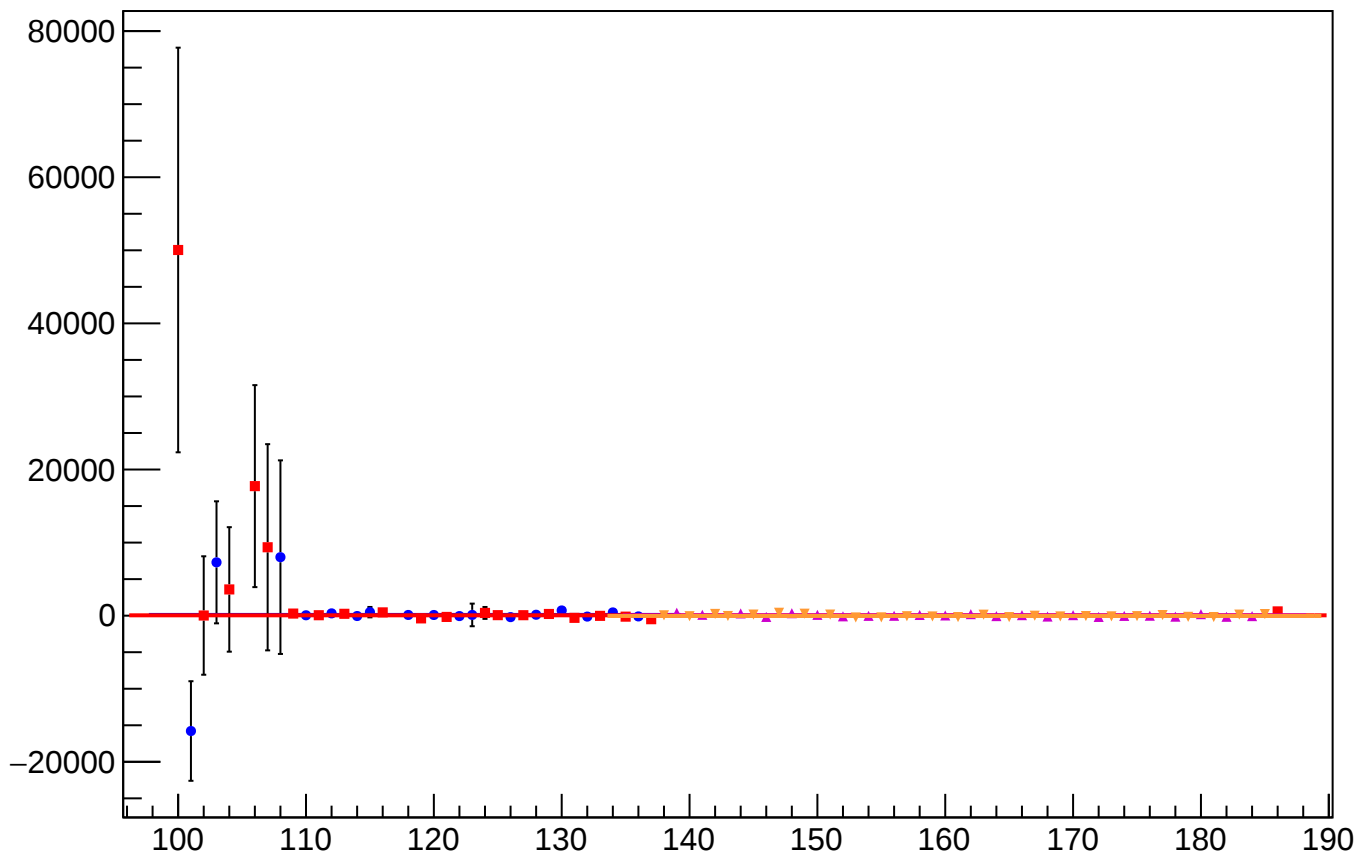
Right: 2.447+/-0.001 χ^2/NDF : 22659862.4/36

In: 2.692+/-0.002 χ^2/NDF : 44469855.2/39

Out: 2.654+/-0.001 χ^2/NDF : 47867366.8/44

All: 2.672+/-0.001 χ^2/NDF : 92337526.2/84

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 100.742 $\pm$ 91.159 χ^2 /NDF: 12.0/16

Left Out: -38.013 $\pm$ 49.628 χ^2 /NDF:9.3/24

Right Out: 48.353 $\pm$ 83.710 χ^2 /NDF: 14.8/19

Left In: 28.205 $\pm$ 48.167 χ^2 /NDF:9.2/22

Left: -3.915 $\pm$ 34.564 χ^2 /NDF: 19.4/47

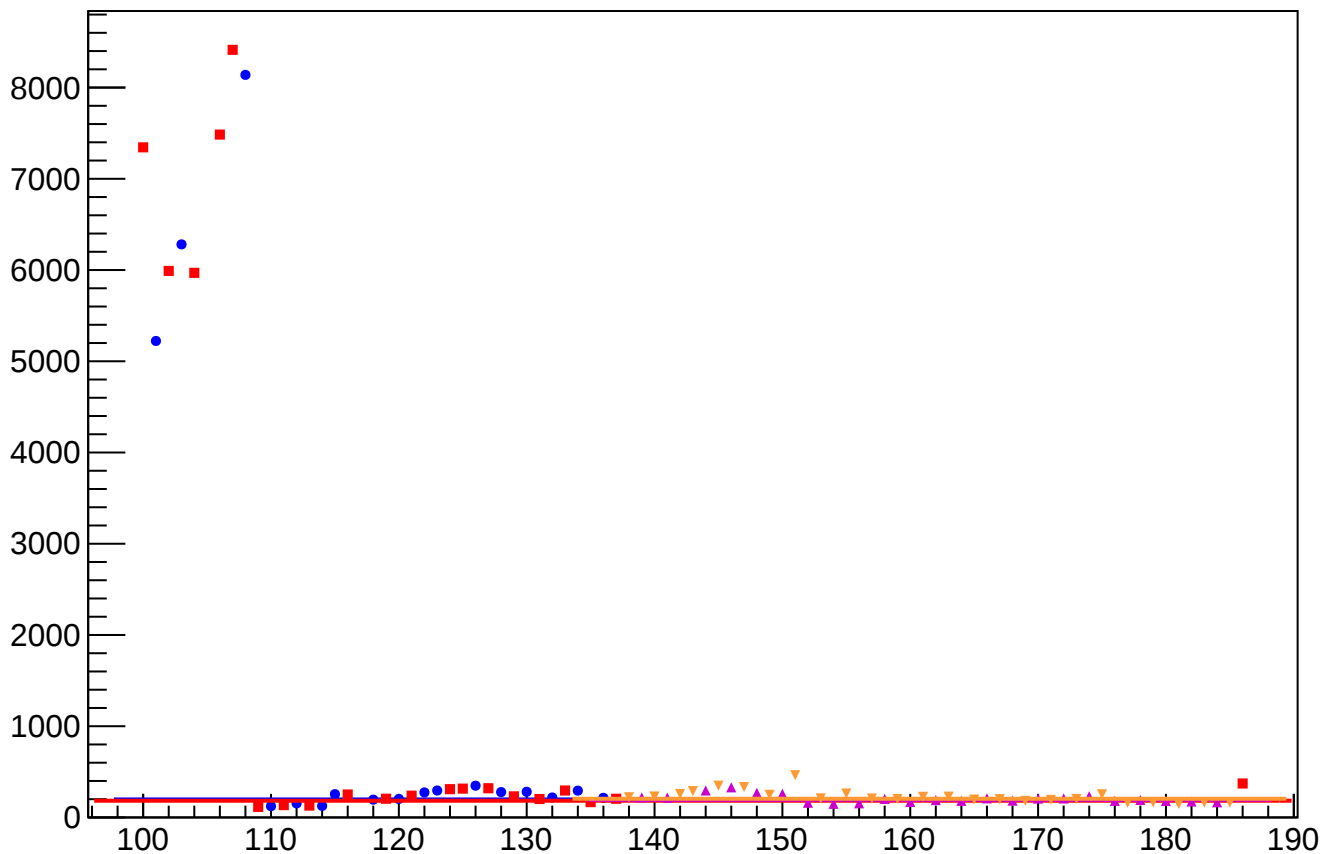
Right: 72.320 $\pm$ 61.657 χ^2 /NDF: 27.0/36

In: 44.036 $\pm$ 42.587 χ^2 /NDF:21.7/39

Out: -15.552 $\pm$ 42.690 χ^2 /NDF:24.9/44

All: 14.314 $\pm$ 30.150 χ^2 /NDF: 47.6/84

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.308 $\pm$ 0.064 χ^2 /NDF: 3696256.2/16

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 183.444 $\pm$ 0.059 χ^2 /NDF: 4514700.5/19

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

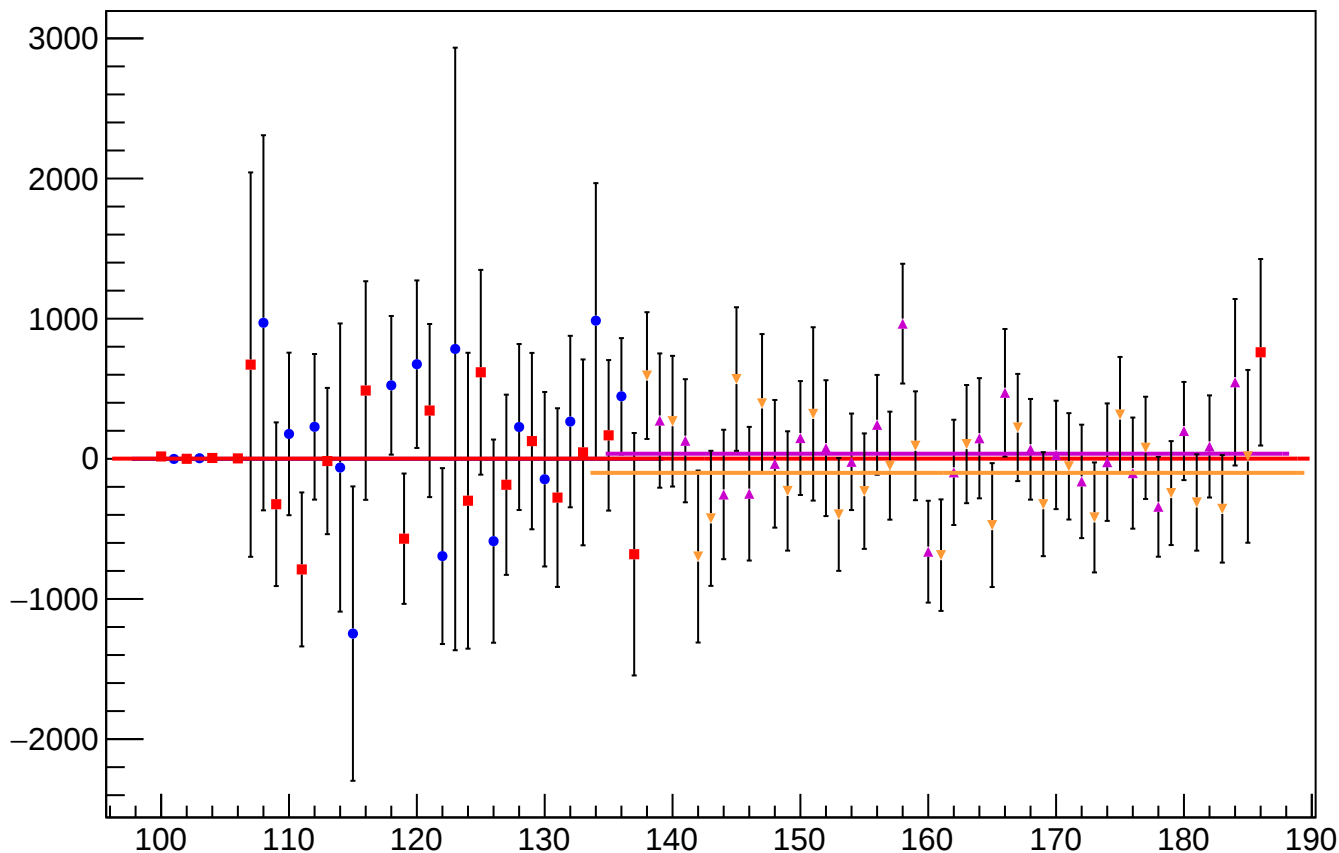
Right: 189.786 $\pm$ 0.044 χ^2 /NDF: 8236051.2/36

In: 194.257 $\pm$ 0.030 χ^2 /NDF:4871291.4/39

Out: 199.414 $\pm$ 0.030 χ^2 /NDF:6569117.9/44

All: 196.829 $\pm$ 0.021 χ^2 /NDF: 11455039.3/84

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.140 ± 1.737 χ^2/NDF : 10.0/16

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.327 ± 1.623 χ^2/NDF : 10.7/19

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

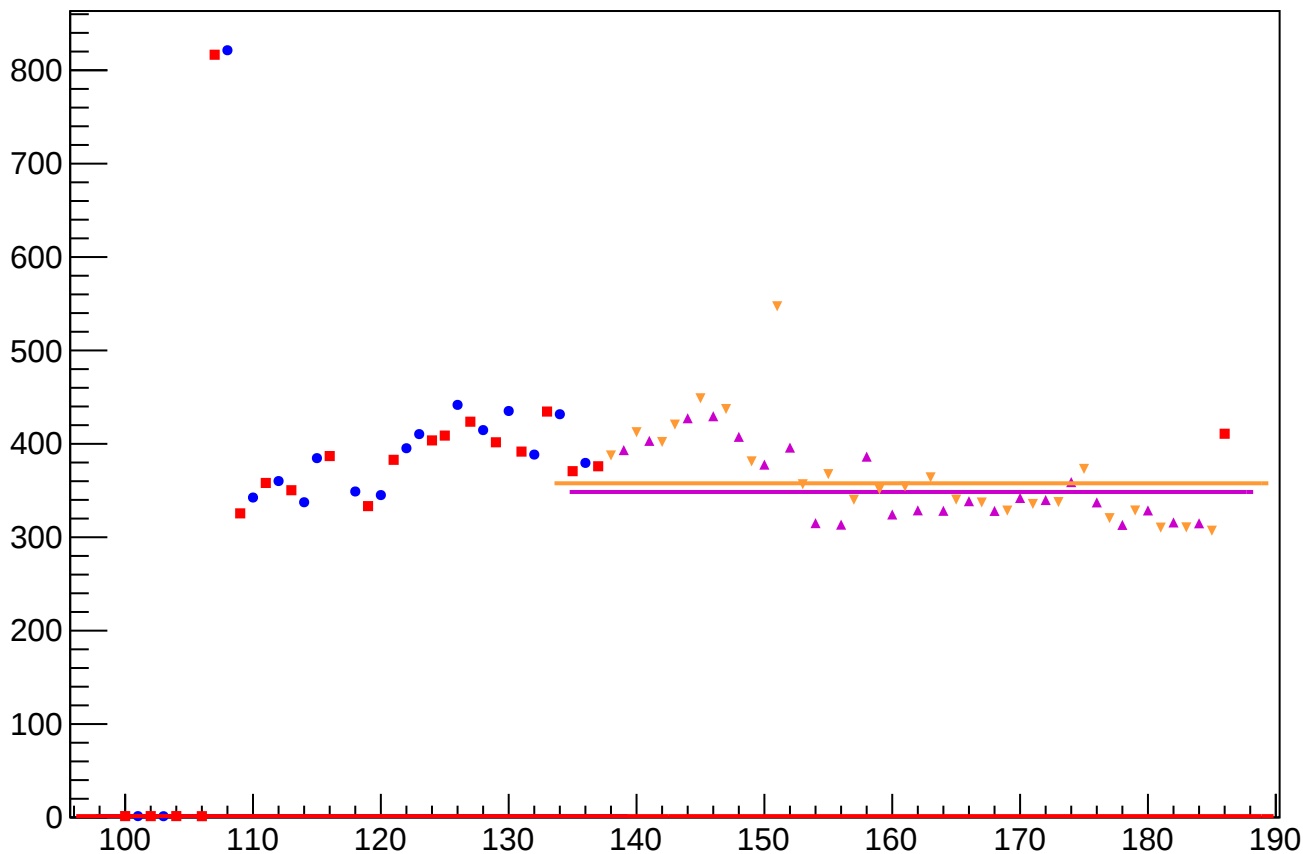
Right: 0.643 ± 1.186 χ^2/NDF : 21.1/36

In: -0.124 ± 1.736 χ^2/NDF : 23.7/39

Out: 1.289 ± 1.622 χ^2/NDF : 27.8/44

All: 0.630 ± 1.185 χ^2/NDF : 51.9/84

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10914608.7/16

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.453+/-0.001 χ^2/NDF : 11595819.9/19

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.145+/-0.042 χ^2/NDF : 919701.2/47

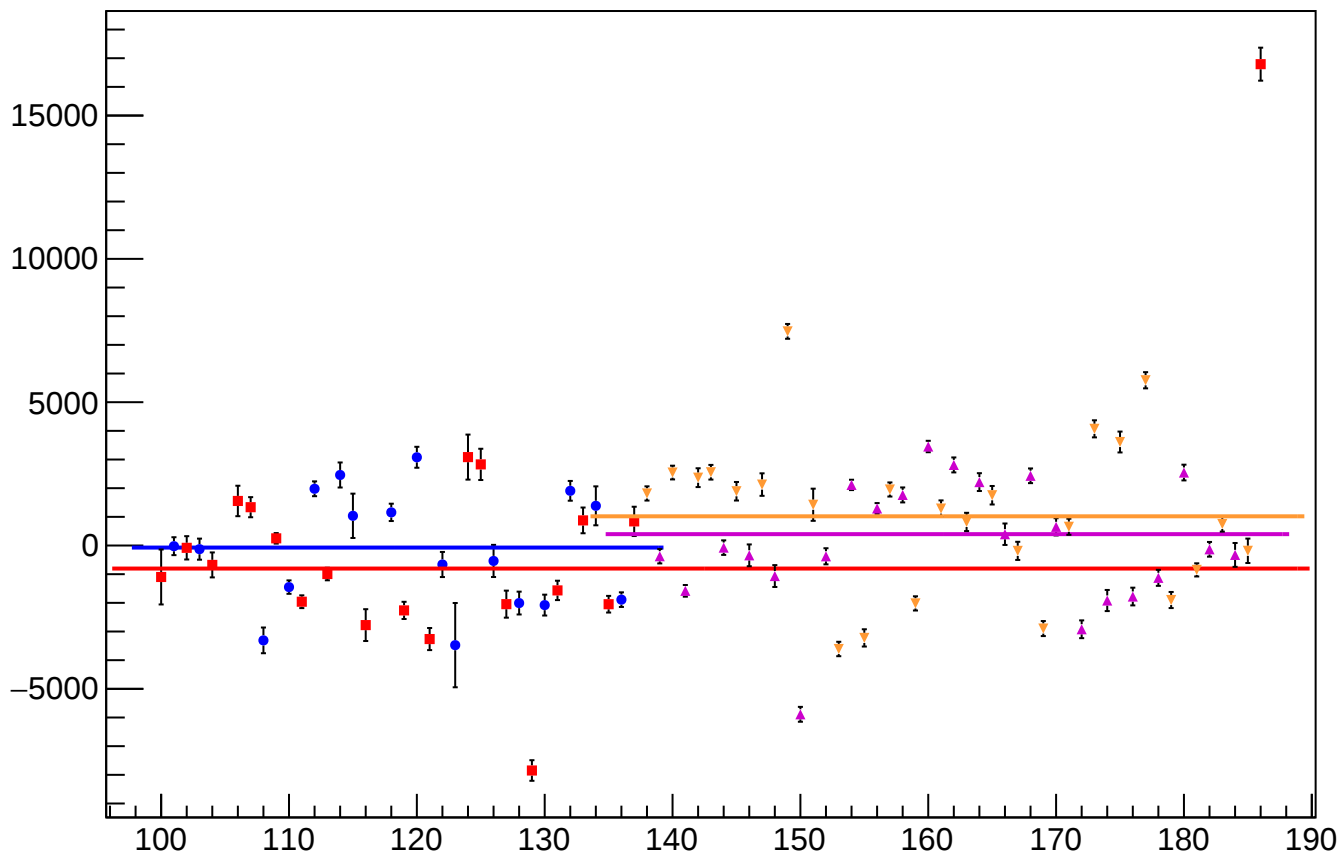
Right: 1.453+/-0.001 χ^2/NDF : 22510428.8/36

In: 1.599+/-0.001 χ^2/NDF : 44850468.9/39

Out: 1.586+/-0.001 χ^2/NDF : 47954662.3/44

All: 1.592+/-0.001 χ^2/NDF : 92805189.8/84

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -71.539 ± 87.764 $\chi^2/\text{NDF}: 426.3/16$

Left Out: 1018.965 ± 57.402 $\chi^2/\text{NDF}: 2310.1/24$

Right Out: -803.658 ± 77.718 $\chi^2/\text{NDF}: 1640.7/19$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 695.002 ± 39.747 $\chi^2/\text{NDF}: 3952.3/47$

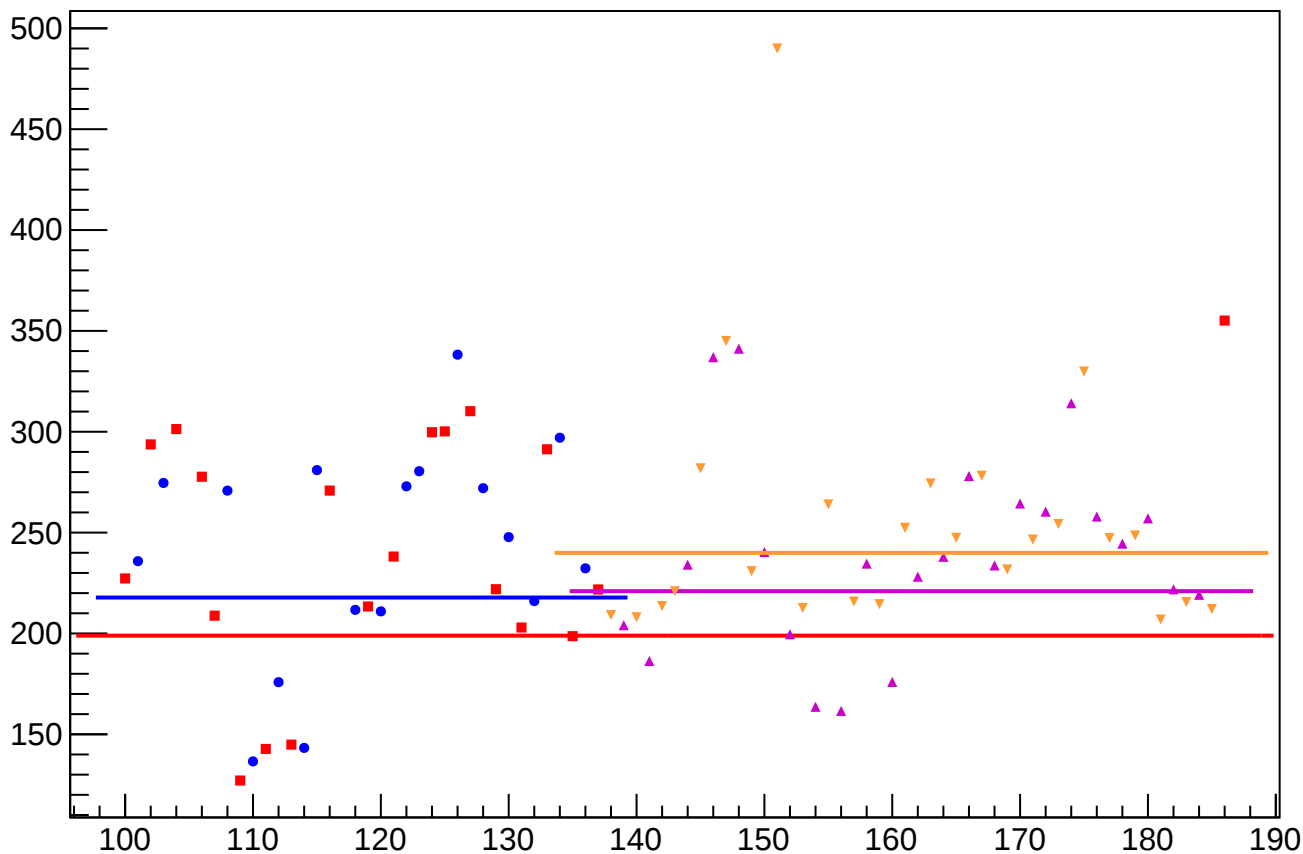
Right: -481.881 ± 58.184 $\chi^2/\text{NDF}: 2106.0/36$

In: 264.288 ± 46.659 $\chi^2/\text{NDF}: 2027.7/39$

Out: 375.636 ± 46.173 $\chi^2/\text{NDF}: 4306.7/44$

All: 320.545 ± 32.820 $\chi^2/\text{NDF}: 6337.3/84$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.814 $\pm$ 0.062 χ^2/NDF : 661049.8/16

Left Out: 239.942 $\pm$ 0.041 χ^2/NDF :1000770.0/24

Right Out: 198.914 $\pm$ 0.055 χ^2/NDF : 1339161.4/19

Left In: 220.972 $\pm$ 0.039 χ^2/NDF :1327680.6/22

Left: 230.067 $\pm$ 0.028 χ^2/NDF : 2442154.9/47

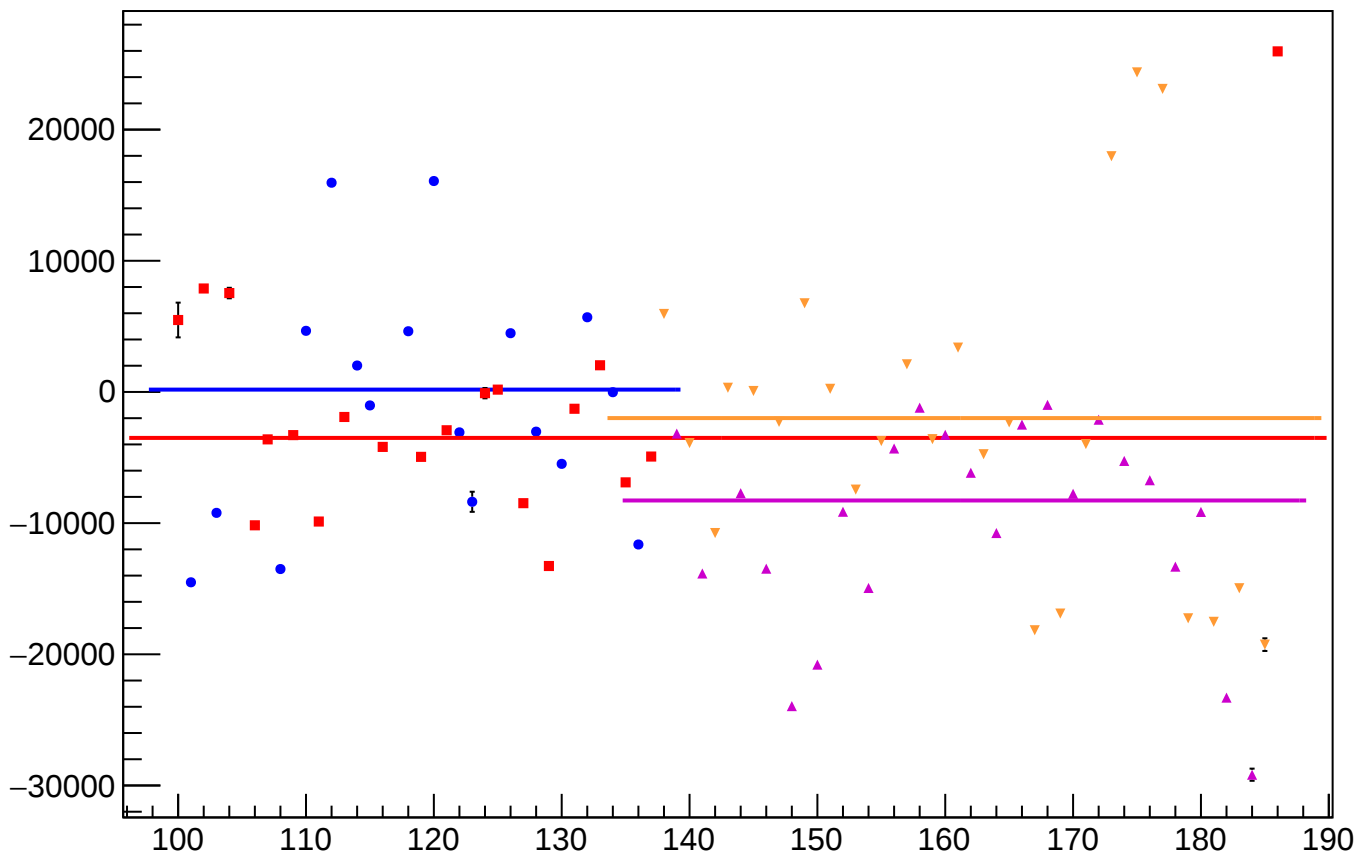
Right: 207.221 $\pm$ 0.041 χ^2/NDF : 2052195.5/36

In: 220.079 $\pm$ 0.033 χ^2/NDF :1990587.6/39

Out: 225.460 $\pm$ 0.033 χ^2/NDF :2700562.8/44

All: 222.798 $\pm$ 0.023 χ^2/NDF : 4704590.8/84

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788+/-54.896 χ^2/NDF : 30662.2/16

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: -3503.372+/-51.555 χ^2/NDF : 18780.9/19

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

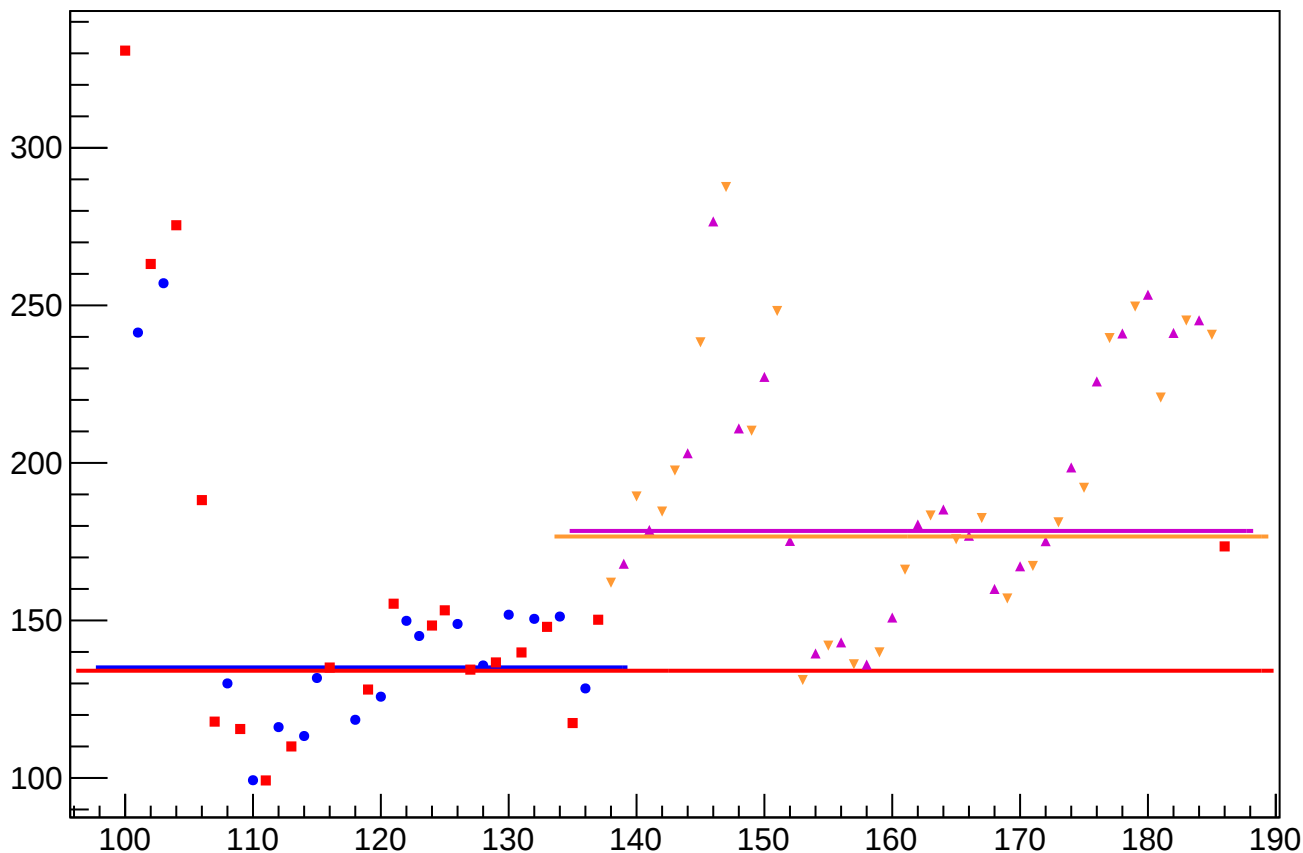
Right: -1777.749+/-37.581 χ^2/NDF : 51833.6/36

In: -4939.792+/-34.475 χ^2/NDF : 67888.0/39

Out: -2602.131+/-32.760 χ^2/NDF : 83060.0/44

All: -3711.357+/-23.748 χ^2/NDF : 153364.0/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099+/-0.039 χ^2/NDF : 657657.4/16

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 134.038+/-0.036 χ^2/NDF : 868914.0/19

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

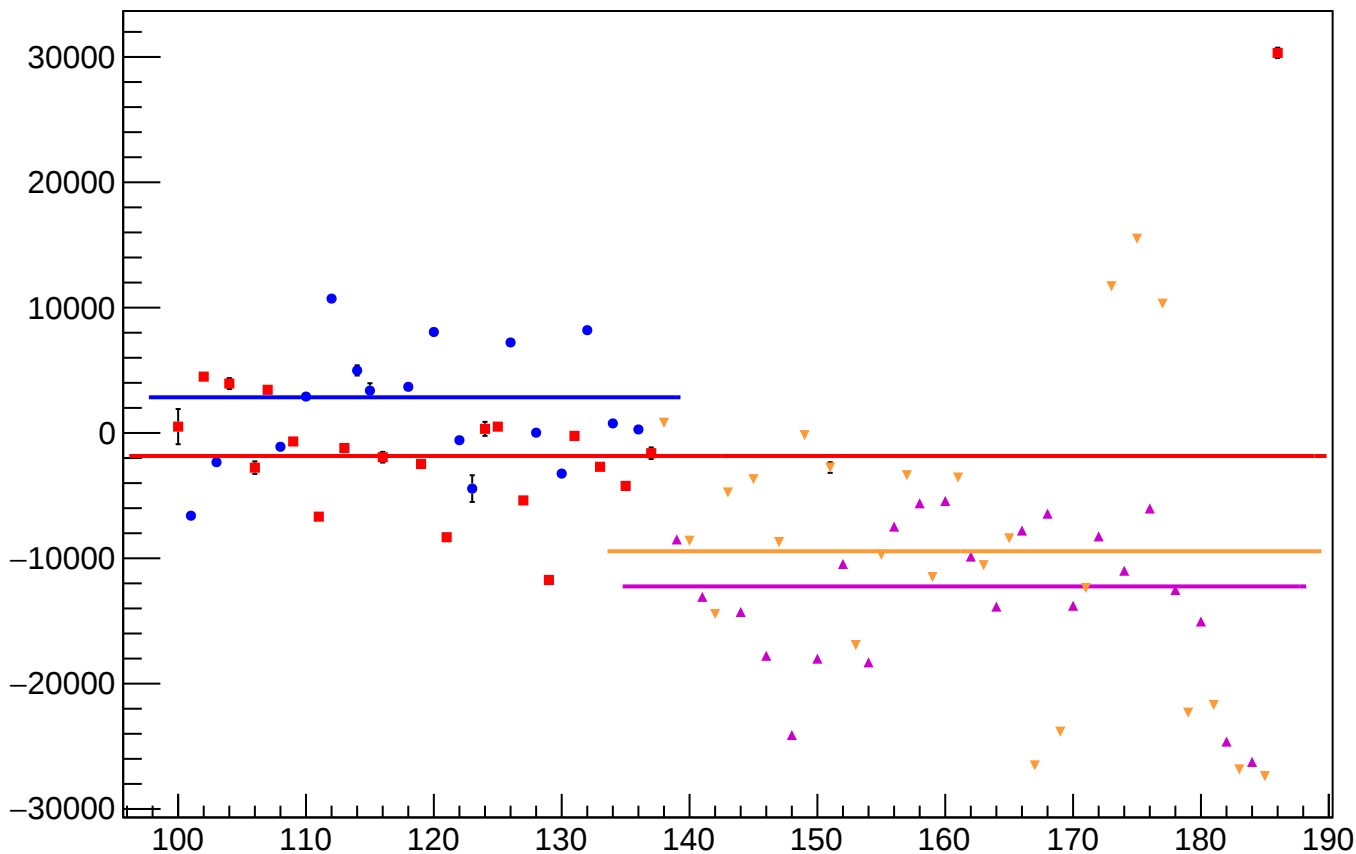
Right: 134.535+/-0.027 χ^2/NDF : 1526968.2/36

In: 161.330+/-0.024 χ^2/NDF :2705447.5/39

Out: 159.439+/-0.023 χ^2/NDF :3234241.3/44

All: 160.336+/-0.017 χ^2/NDF : 5942852.7/84

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117+/-70.894 χ^2/NDF : 4160.1/16

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: -1834.858+/-64.900 χ^2/NDF : 9352.3/19

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

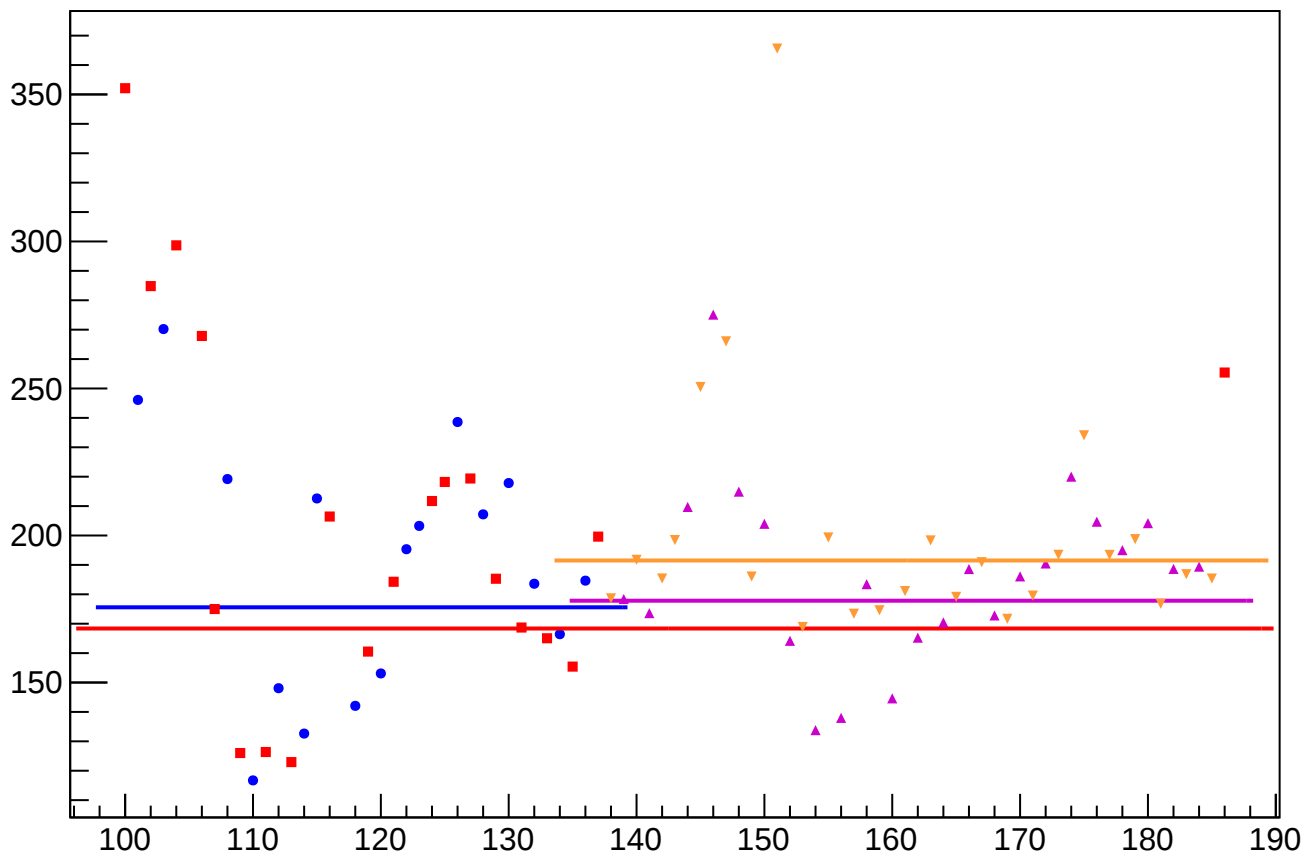
Right: 299.413+/-47.870 χ^2/NDF : 15884.3/36

In: -8054.077+/-37.351 χ^2/NDF : 53499.1/39

Out: -6929.542+/-37.275 χ^2/NDF : 80768.4/44

All: -7490.667+/-26.384 χ^2/NDF : 134721.7/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582+/-0.050 χ^2/NDF : 687852.4/16

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 168.369+/-0.046 χ^2/NDF : 1016035.2/19

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

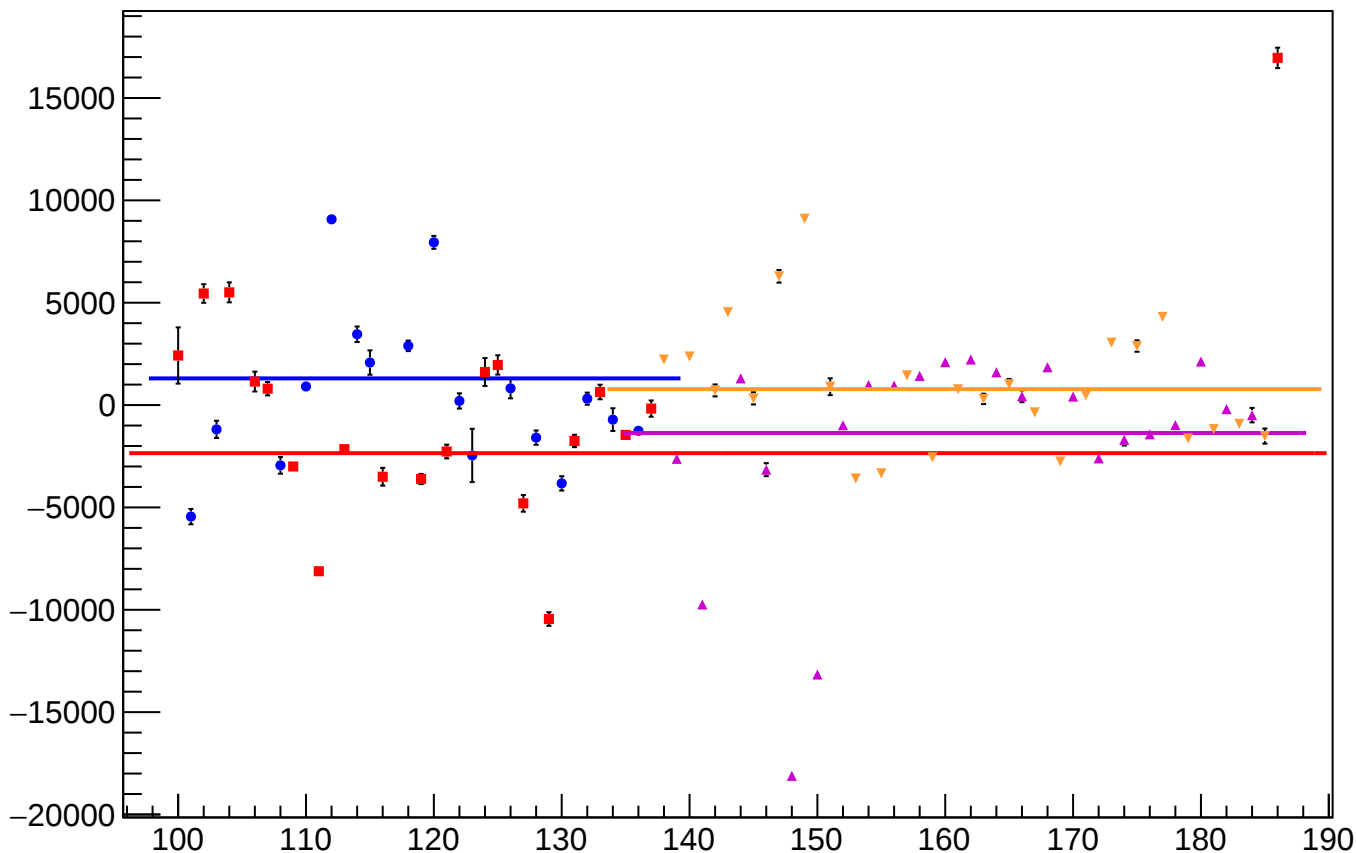
Right: 171.658+/-0.034 χ^2/NDF : 1715151.3/36

In: 177.200+/-0.026 χ^2/NDF : 1551788.7/39

Out: 183.874+/-0.026 χ^2/NDF : 1913637.8/44

All: 180.544+/-0.019 χ^2/NDF : 3497423.6/84

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 ± 77.323 $\chi^2/\text{NDF}: 2649.9/16$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -2348.875 ± 69.332 $\chi^2/\text{NDF}: 4025.5/19$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

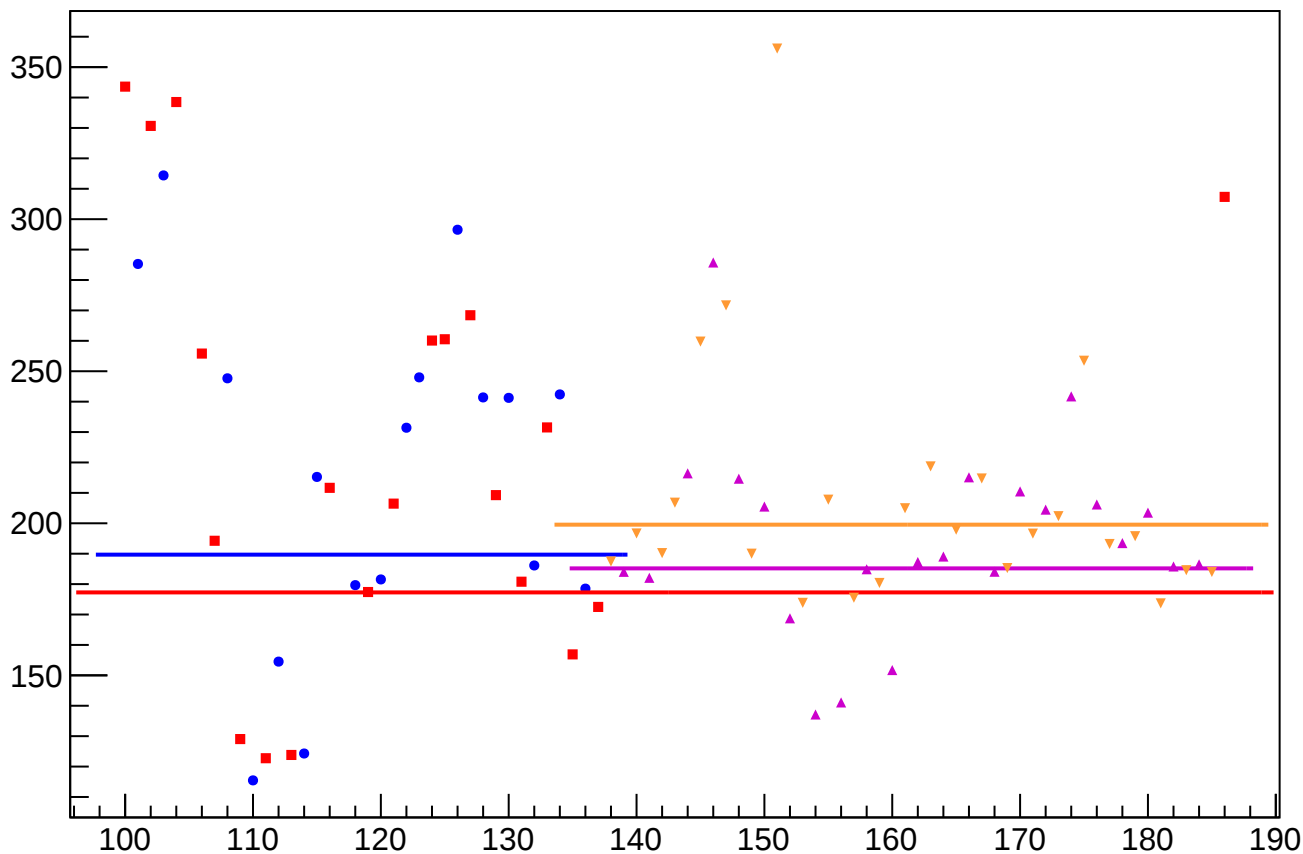
Right: -721.365 ± 51.620 $\chi^2/\text{NDF}: 7911.8/36$

In: -670.480 ± 39.410 $\chi^2/\text{NDF}: 15162.7/39$

Out: -218.276 ± 39.162 $\chi^2/\text{NDF}: 9673.1/44$

All: -442.947 ± 27.779 $\chi^2/\text{NDF}: 24902.0/84$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2/NDF : 977199.2/16

Left Out: 199.547 $\pm$ 0.034 χ^2/NDF : 729356.3/24

Right Out: 177.270 $\pm$ 0.049 χ^2/NDF : 1429809.6/19

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

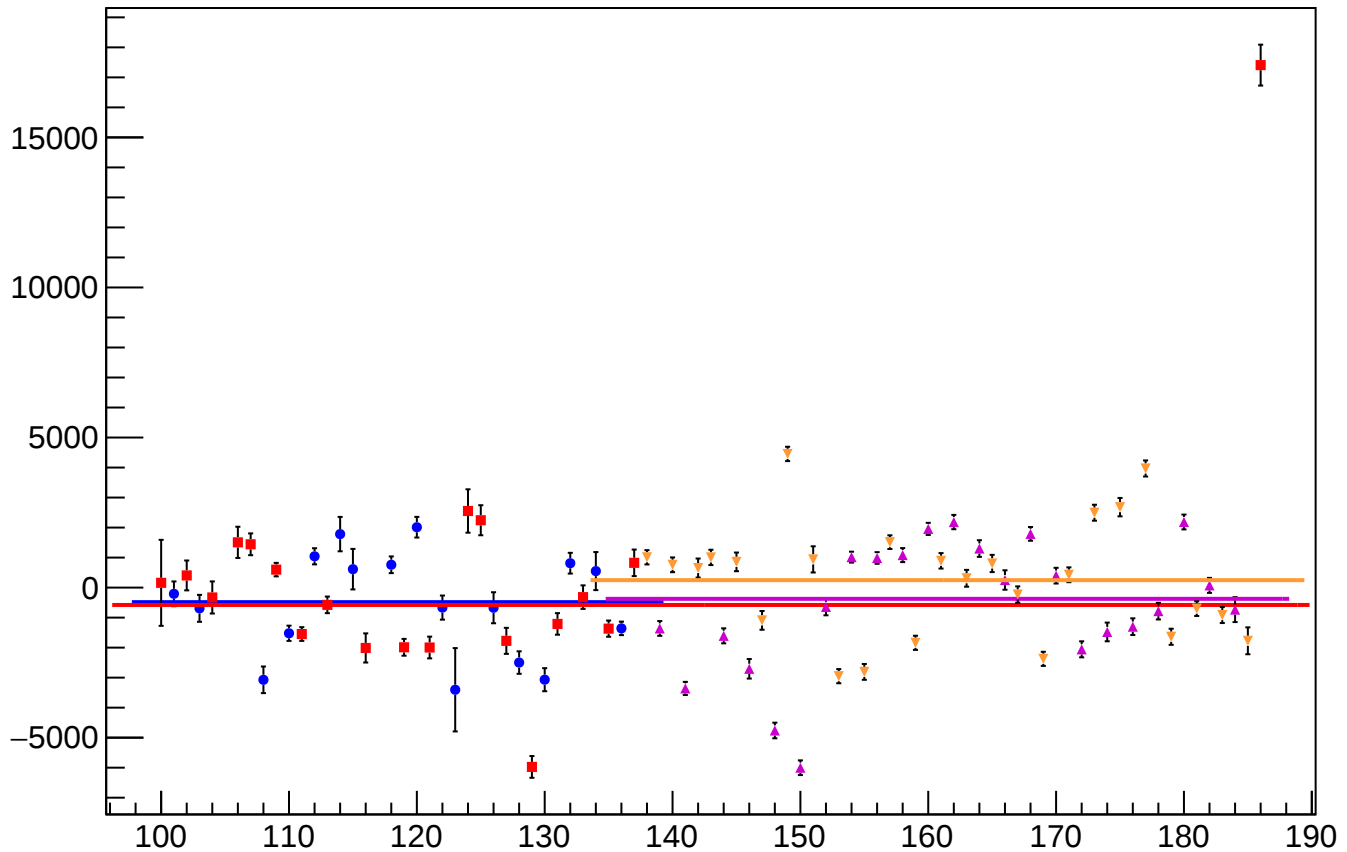
Right: 182.804 $\pm$ 0.037 χ^2/NDF : 2435599.6/36

In: 186.344 $\pm$ 0.028 χ^2/NDF : 1865002.0/39

Out: 192.439 $\pm$ 0.028 χ^2/NDF : 2299769.9/44

All: 189.411 $\pm$ 0.020 χ^2/NDF : 4188845.3/84

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -485.036 $\pm$ 88.788 χ^2/NDF : 285.3/16

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: -578.583 $\pm$ 81.640 χ^2/NDF : 1145.3/19

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

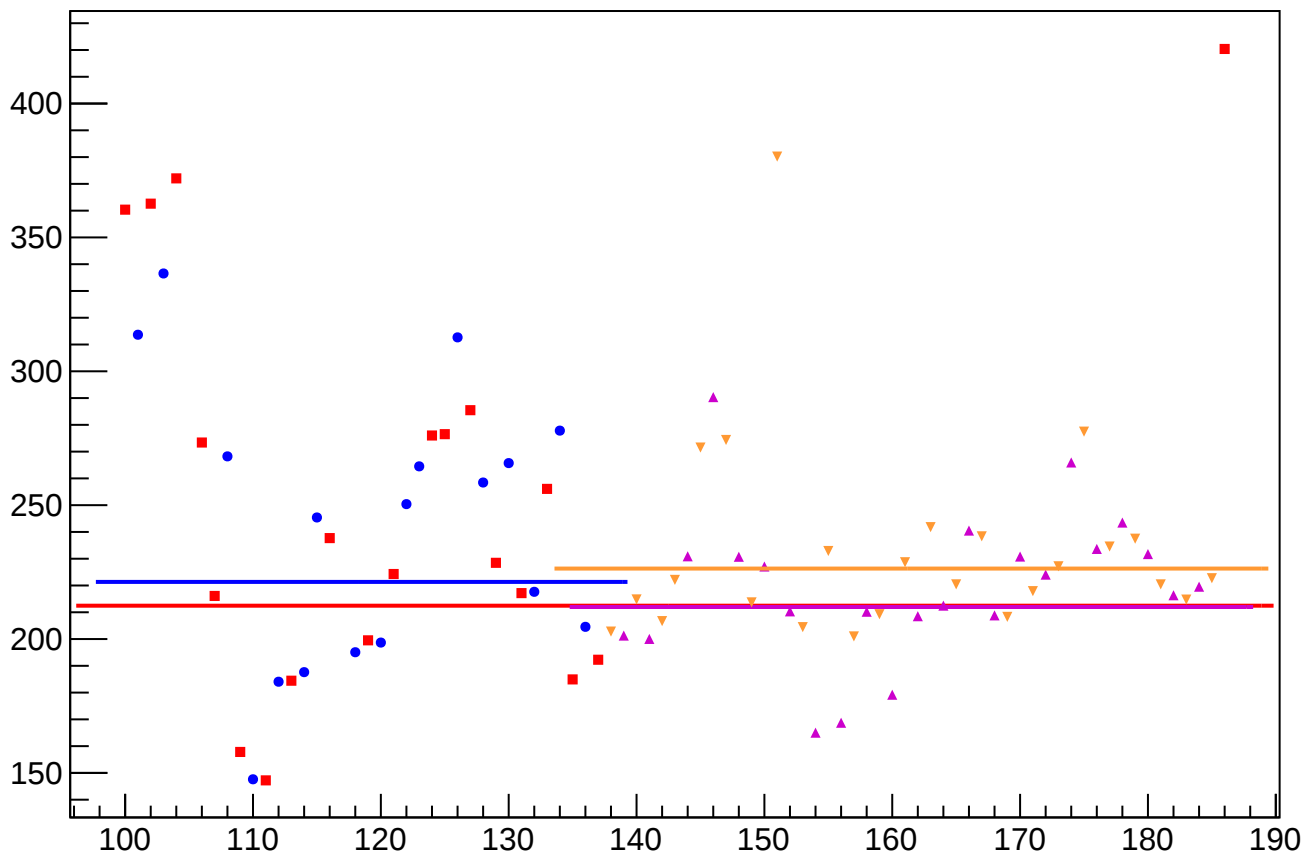
Right: -535.726 $\pm$ 60.097 χ^2/NDF : 1431.2/36

In: -402.489 $\pm$ 44.902 χ^2/NDF :2087.5/39

Out: -0.792 $\pm$ 44.780 χ^2/NDF :2572.1/44

All: -201.091 $\pm$ 31.707 χ^2/NDF : 4699.7/84

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 ± 0.063 χ^2/NDF : 645507.4/16

Left Out: 226.322 ± 0.038 χ^2/NDF : 521041.8/24

Right Out: 212.457 ± 0.058 χ^2/NDF : 1068273.5/19

Left In: 211.970 ± 0.037 χ^2/NDF : 584344.5/22

Left: 218.941 ± 0.026 χ^2/NDF : 1179246.7/47

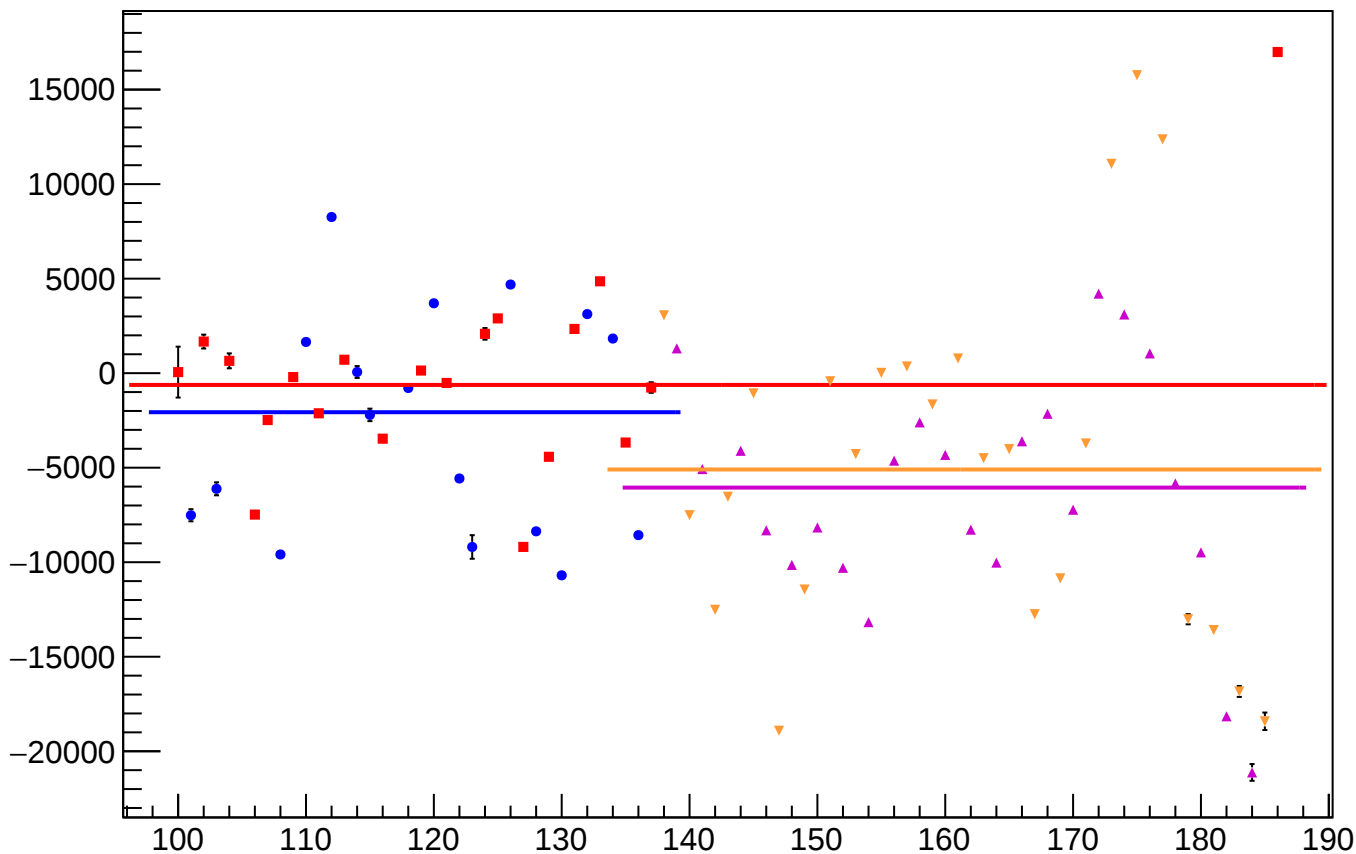
Right: 216.526 ± 0.042 χ^2/NDF : 1724626.6/36

In: 214.366 ± 0.032 χ^2/NDF : 1246424.7/39

Out: 222.150 ± 0.032 χ^2/NDF : 1629645.8/44

All: 218.269 ± 0.022 χ^2/NDF : 2906204.8/84

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 $\pm$ 47.407 χ^2 /NDF: 16535.7/16

Left Out: -5095.305 $\pm$ 33.703 χ^2 /NDF: 54395.4/24

Right Out: -622.036 $\pm$ 44.140 χ^2 /NDF: 12024.8/19

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

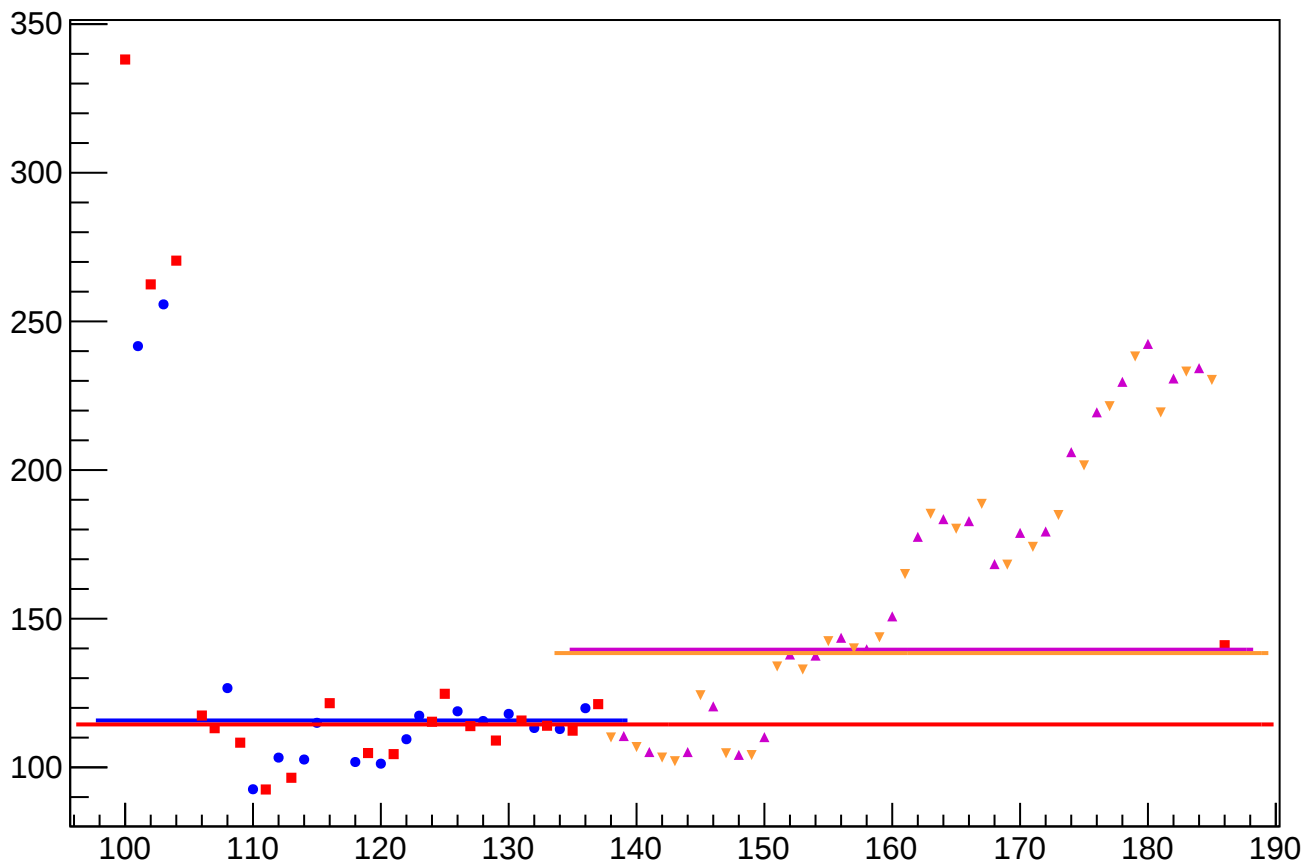
Right: -1292.340 $\pm$ 32.305 χ^2 /NDF: 29057.1/36

In: -4646.764 $\pm$ 28.156 χ^2 /NDF: 38706.4/39

Out: -3447.831 $\pm$ 26.788 χ^2 /NDF: 72907.9/44

All: -4017.444 $\pm$ 19.408 χ^2 /NDF: 112566.0/8

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768 $\pm$ 0.034 χ^2 /NDF: 743657.8/16

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 114.434 $\pm$ 0.031 χ^2 /NDF: 823324.5/19

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

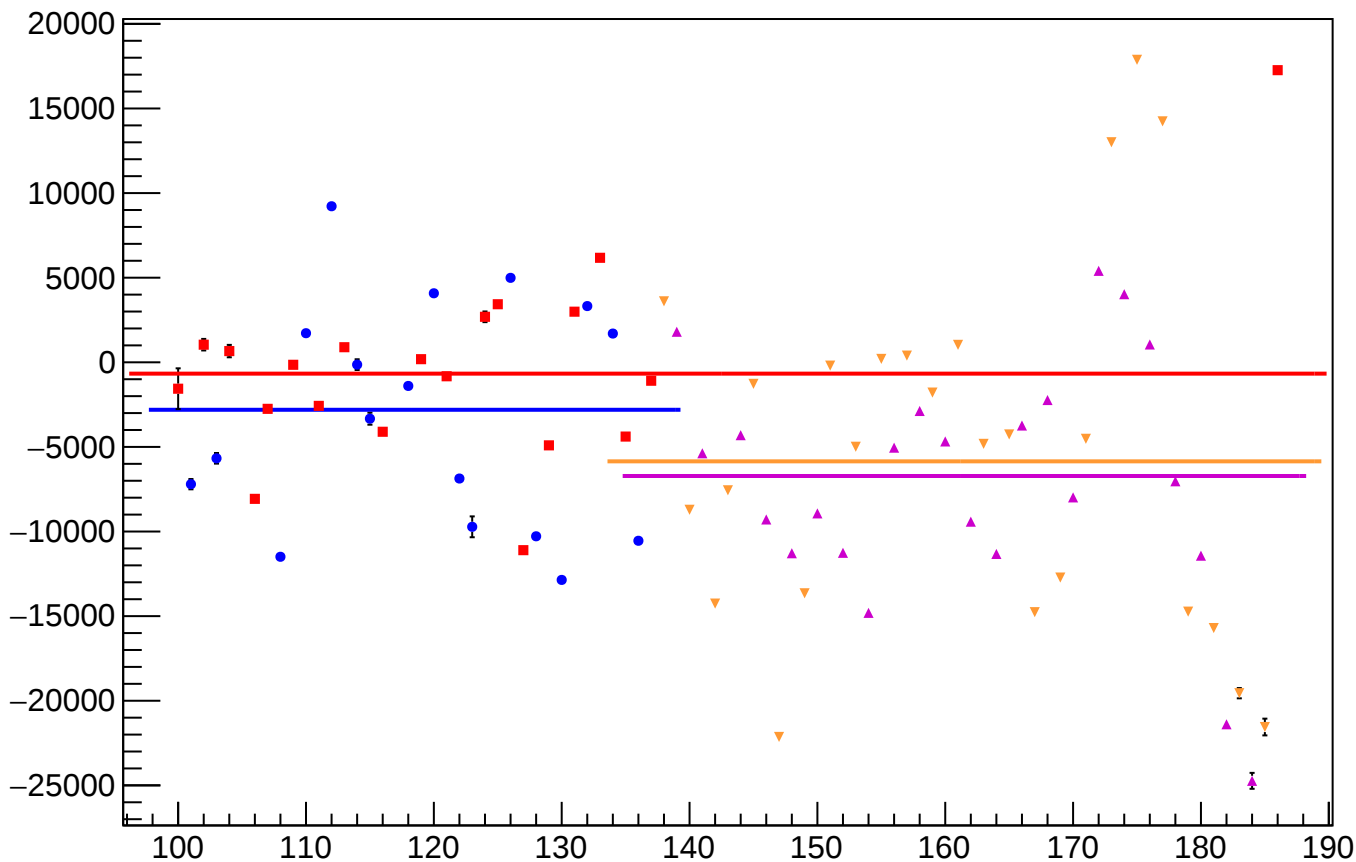
Right: 115.053 $\pm$ 0.023 χ^2 /NDF: 1567830.0/36

In: 131.179 $\pm$ 0.020 χ^2 /NDF: 3483854.6/39

Out: 129.596 $\pm$ 0.019 χ^2 /NDF: 3746309.7/44

All: 130.348 $\pm$ 0.014 χ^2 /NDF: 7233480.6/84

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2805.410 ± 48.358 $\chi^2/\text{NDF}: 21259.6/16$

Left Out: -5852.544 ± 35.880 $\chi^2/\text{NDF}: 63411.4/24$

Right Out: -669.627 ± 45.390 $\chi^2/\text{NDF}: 14851.1/19$

Left In: -6718.475 ± 37.276 $\chi^2/\text{NDF}: 20934.3/22$

Left: -6268.993 ± 25.850 $\chi^2/\text{NDF}: 84625.8/47$

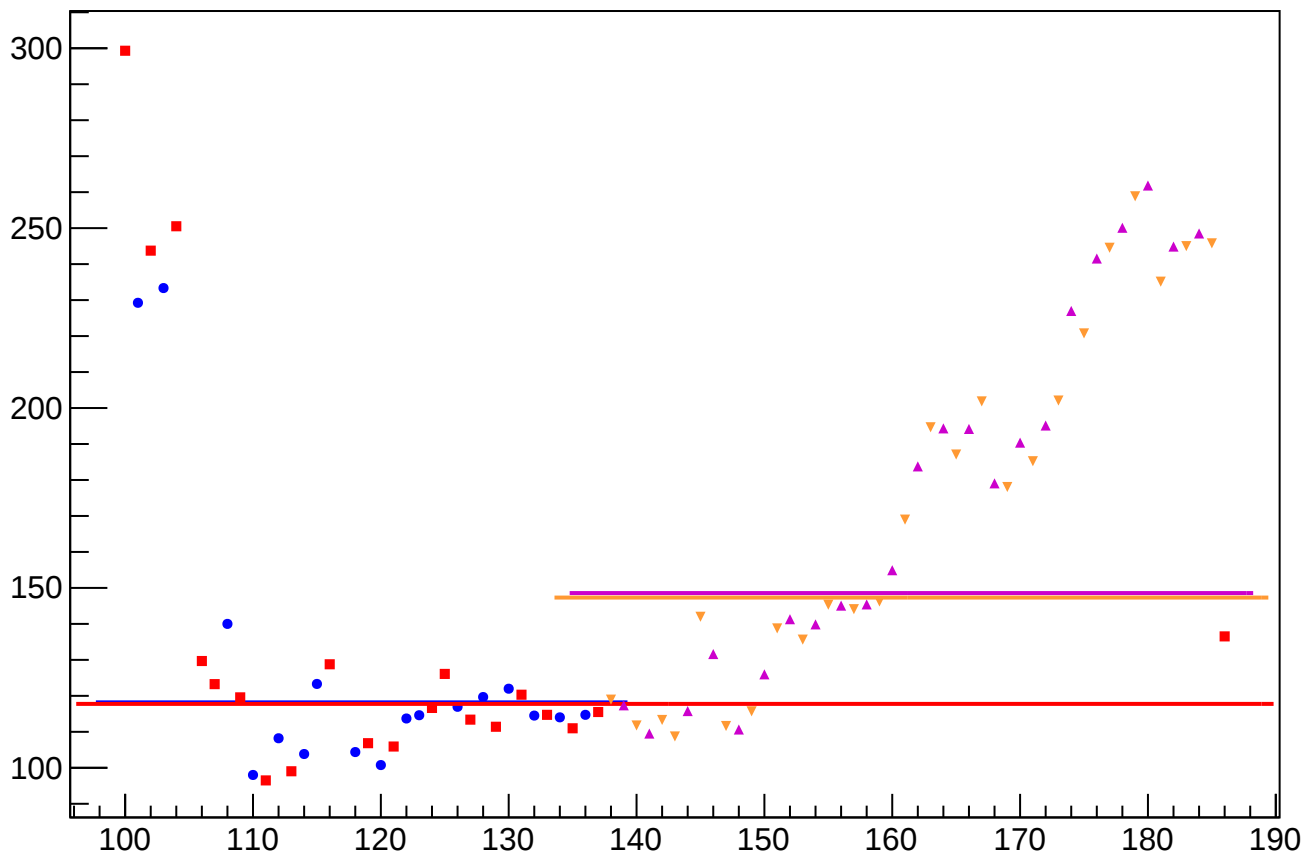
Right: -1669.952 ± 33.095 $\chi^2/\text{NDF}: 37147.8/36$

In: -5260.030 ± 29.523 $\chi^2/\text{NDF}: 46301.2/39$

Out: -3859.380 ± 28.148 $\chi^2/\text{NDF}: 86287.1/44$

All: -4526.323 ± 20.372 $\chi^2/\text{NDF}: 133767.4/8$

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.187+/-0.034 χ^2/NDF : 636345.5/16

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 117.764+/-0.032 χ^2/NDF : 704319.5/19

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

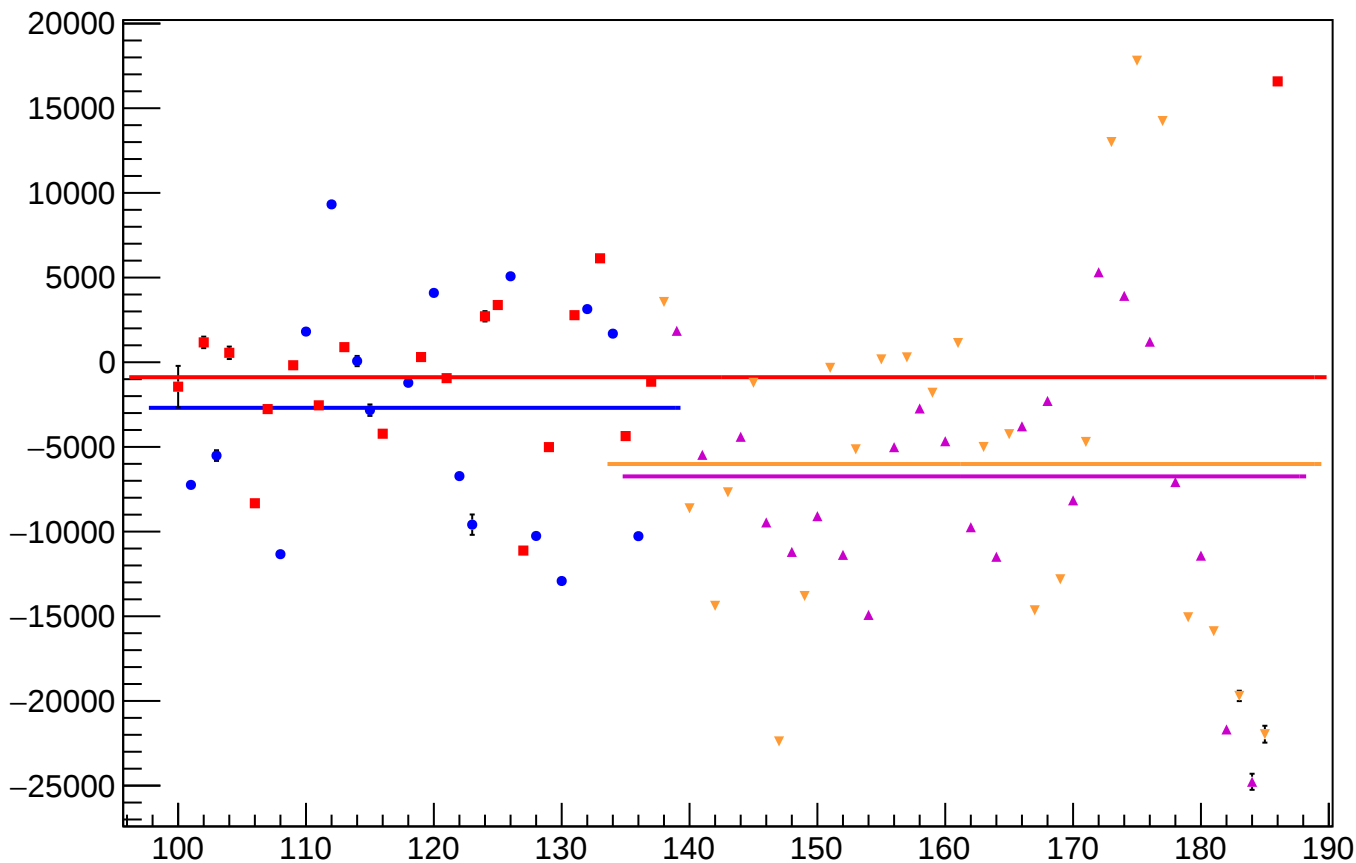
Right: 117.962+/-0.023 χ^2/NDF : 1340746.2/36

In: 137.245+/-0.021 χ^2/NDF : 3524720.9/39

Out: 135.952+/-0.020 χ^2/NDF : 3737787.6/44

All: 136.568+/-0.014 χ^2/NDF : 7264517.3/84

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2691.569 ± 46.420 $\chi^2/\text{NDF}: 22847.7/16$

Left Out: -6009.913 ± 35.082 $\chi^2/\text{NDF}: 67852.2/24$

Right Out: -883.279 ± 43.675 $\chi^2/\text{NDF}: 14233.2/19$

Left In: -6740.666 ± 36.379 $\chi^2/\text{NDF}: 22071.8/22$

Left: -6362.031 ± 25.253 $\chi^2/\text{NDF}: 90133.1/47$

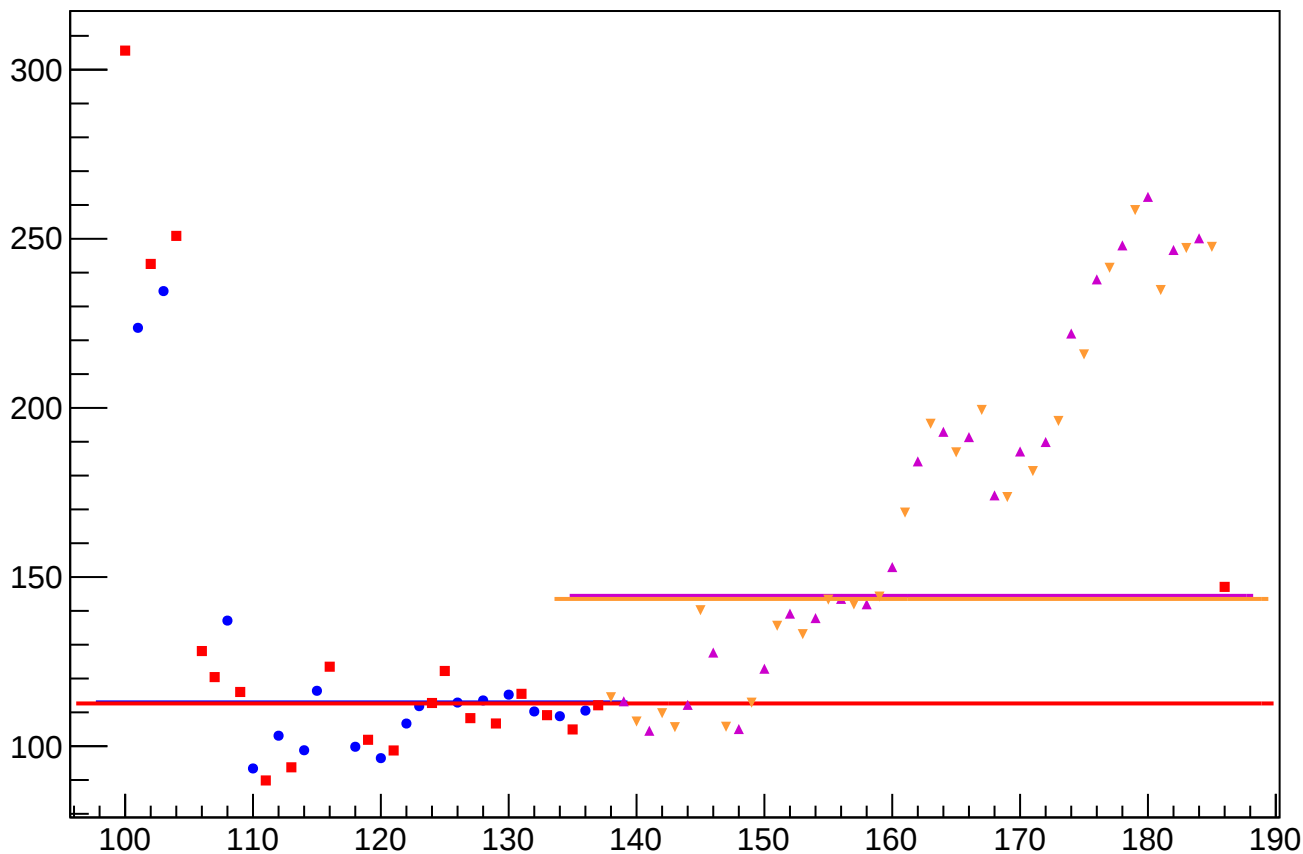
Right: -1732.386 ± 31.809 $\chi^2/\text{NDF}: 37885.8/36$

In: -5199.994 ± 28.634 $\chi^2/\text{NDF}: 49633.1/39$

Out: -3999.339 ± 27.351 $\chi^2/\text{NDF}: 90460.3/44$

All: -4572.176 ± 19.778 $\chi^2/\text{NDF}: 141012.8/88$

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.944 $\pm$ 0.033 χ^2/NDF : 680438.6/16

Left Out: 143.531 $\pm$ 0.025 χ^2/NDF : 2704790.3/24

Right Out: 112.631 $\pm$ 0.031 χ^2/NDF : 807022.4/19

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

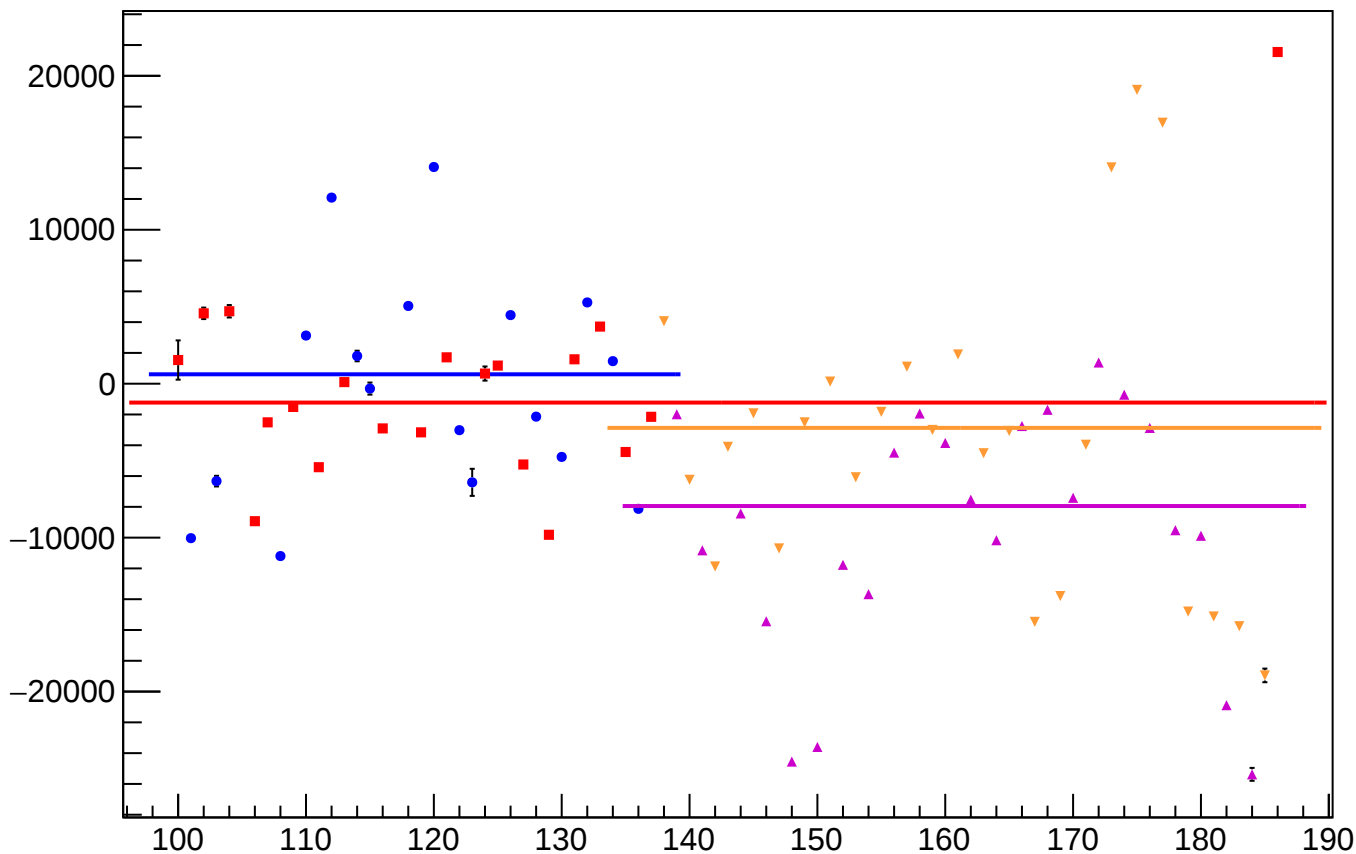
Right: 112.778 $\pm$ 0.022 χ^2/NDF : 1487509.2/36

In: 132.456 $\pm$ 0.020 χ^2/NDF : 3837761.6/39

Out: 131.412 $\pm$ 0.019 χ^2/NDF : 4120290.9/44

All: 131.910 $\pm$ 0.014 χ^2/NDF : 7959440.5/84

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 610.939 $\pm$ 56.154 χ^2/NDF : 18248.2/16

Left Out: -2870.473 $\pm$ 39.482 χ^2/NDF : 46420.3/24

Right Out: -1226.550 $\pm$ 52.947 χ^2/NDF : 11400.2/19

Left In: -7947.160 $\pm$ 41.726 χ^2/NDF : 23874.5/22

Left: -5268.670 $\pm$ 28.678 χ^2/NDF : 78105.0/47

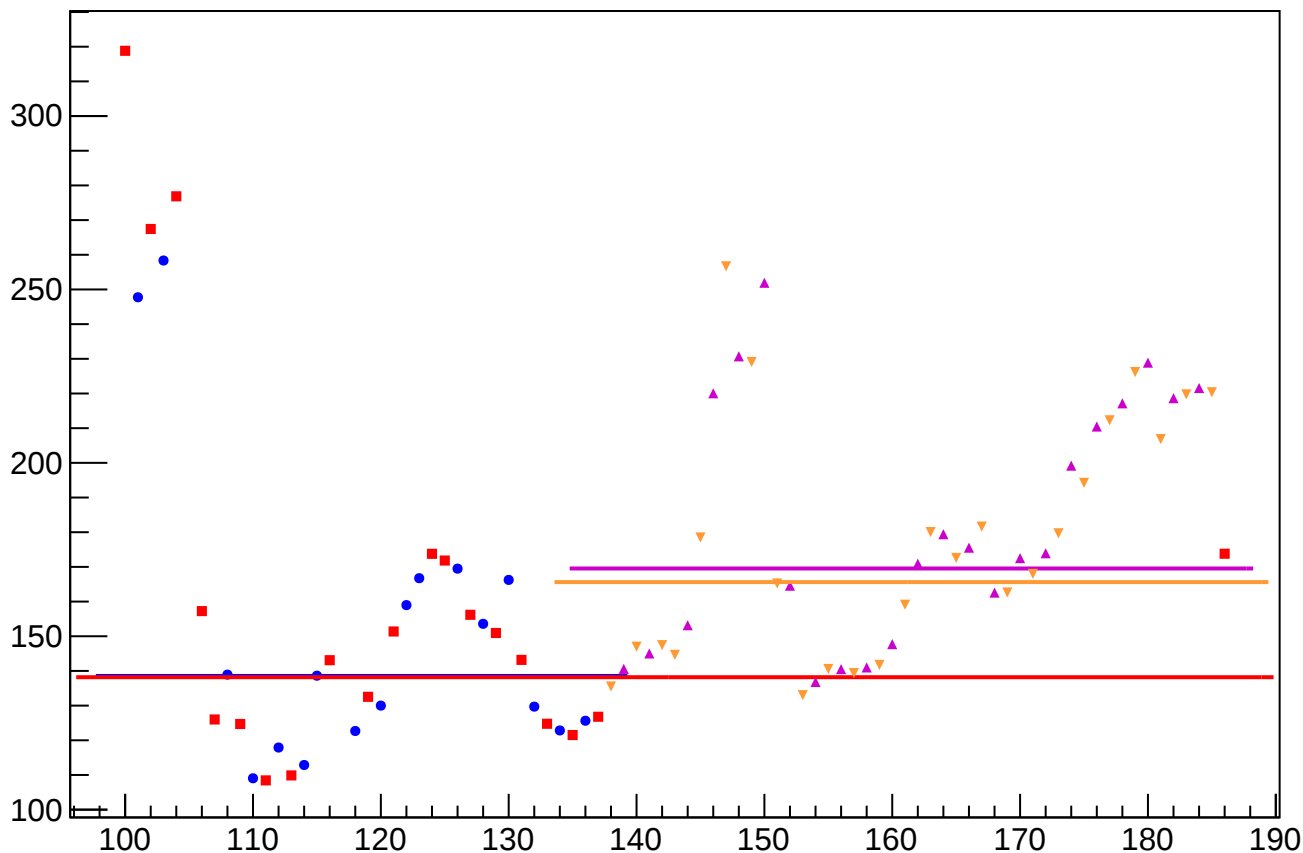
Right: -361.775 $\pm$ 38.523 χ^2/NDF : 30215.3/36

In: -4902.807 $\pm$ 33.492 χ^2/NDF : 57087.3/39

Out: -2283.012 $\pm$ 31.651 χ^2/NDF : 58440.0/44

All: -3518.938 $\pm$ 23.004 χ^2/NDF : 118759.4/8

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.549+/-0.040 χ^2/NDF : 667663.4/16

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 138.194+/-0.037 χ^2/NDF : 784436.1/19

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

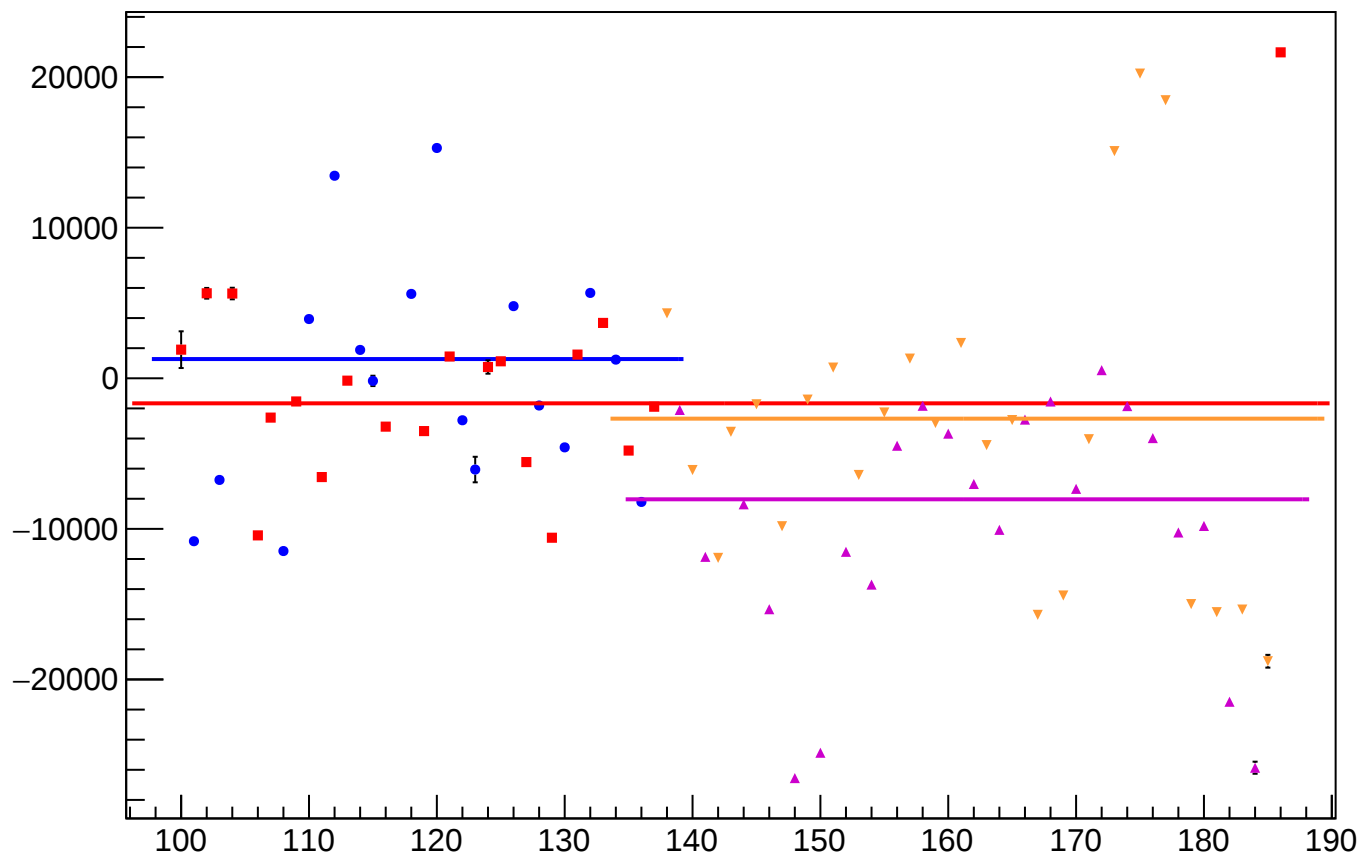
Right: 138.361+/-0.027 χ^2/NDF : 1452141.9/36

In: 158.517+/-0.024 χ^2/NDF :2219414.9/39

Out: 155.817+/-0.022 χ^2/NDF :2273986.9/44

All: 157.091+/-0.016 χ^2/NDF : 4500267.1/84

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1277.751 $\pm$ 46.646 χ^2/NDF : 30549.2/16

Left Out: -2680.012 $\pm$ 35.764 χ^2/NDF : 56820.4/24

Right Out: -1662.747 $\pm$ 43.553 χ^2/NDF : 17128.8/19

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

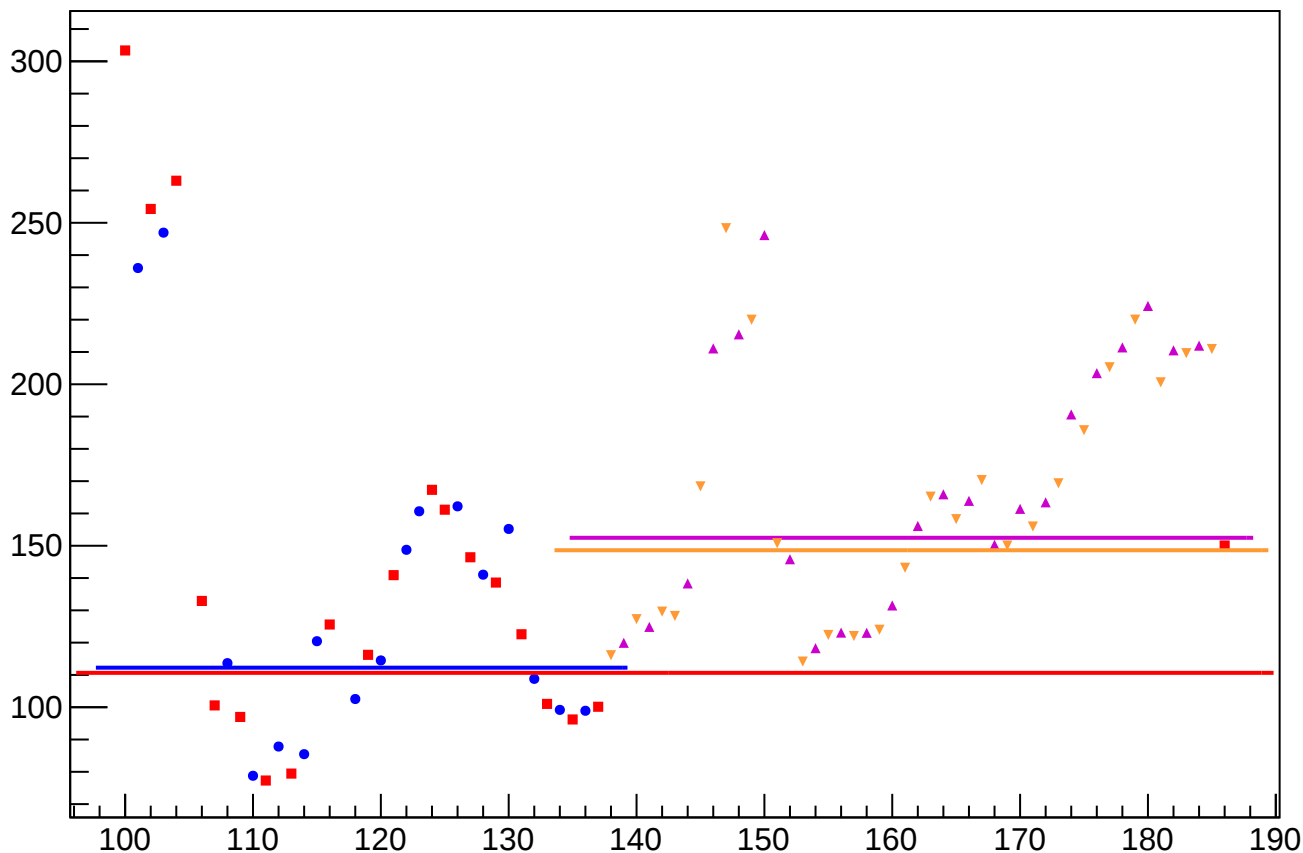
Right: -293.198 $\pm$ 31.834 χ^2/NDF : 49801.0/36

In: -4330.006 $\pm$ 29.426 χ^2/NDF : 83817.2/39

Out: -2270.330 $\pm$ 27.639 χ^2/NDF : 74275.0/44

All: -3235.742 $\pm$ 20.146 χ^2/NDF : 160695.1/8

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.247 $\pm$ 0.033 χ^2/NDF : 1123602.1/16

Left Out: 148.611 $\pm$ 0.025 χ^2/NDF : 1685424.1/24

Right Out: 110.649 $\pm$ 0.031 χ^2/NDF : 1317004.4/19

Left In: 152.463 $\pm$ 0.027 χ^2/NDF : 1691517.7/22

Left: 150.424 $\pm$ 0.018 χ^2/NDF : 3387867.0/47

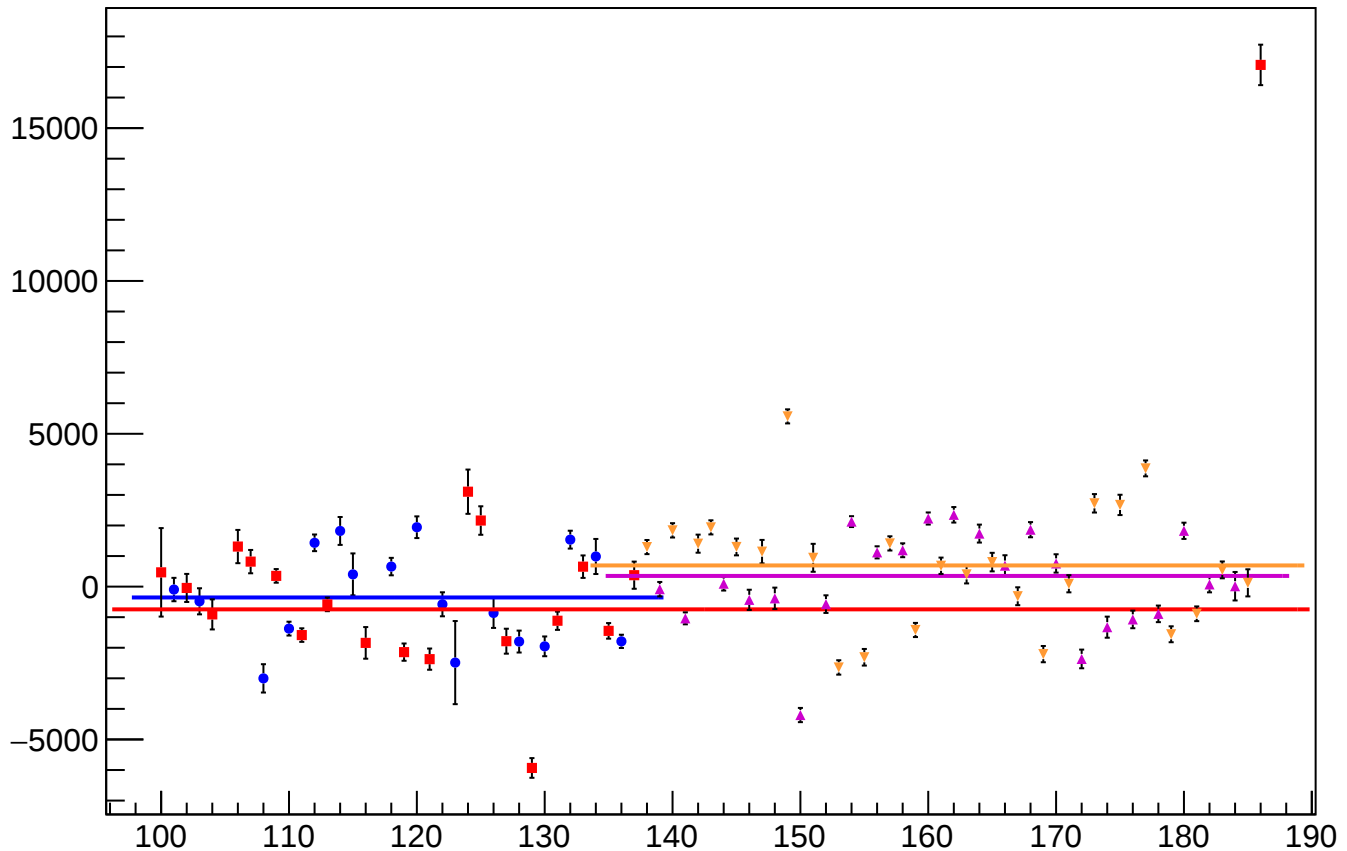
Right: 111.394 $\pm$ 0.023 χ^2/NDF : 2441861.0/36

In: 136.459 $\pm$ 0.021 χ^2/NDF : 3710132.3/39

Out: 133.322 $\pm$ 0.020 χ^2/NDF : 3909932.9/44

All: 134.793 $\pm$ 0.014 χ^2/NDF : 7632138.2/84

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -354.938+/-84.016 χ^2/NDF : 310.6/16

Left Out: 692.998+/-54.303 χ^2/NDF :1422.0/24

Right Out: -744.115+/-77.124 χ^2/NDF : 1211.1/19

Left In: 349.623+/-53.094 χ^2/NDF :981.0/22

Left: 517.444+/-37.963 χ^2/NDF : 2423.4/47

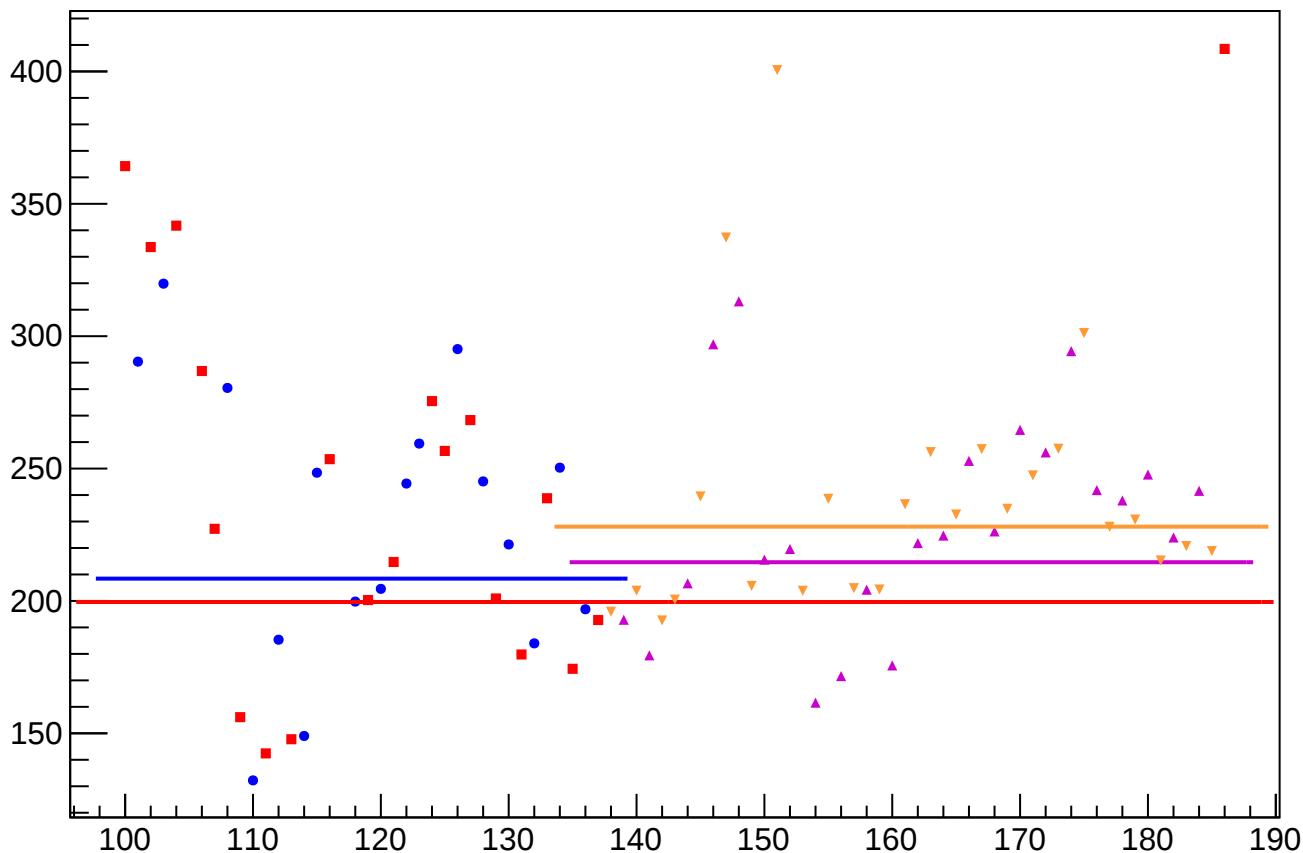
Right: -566.140+/-56.815 χ^2/NDF : 1533.3/36

In: 148.548+/-44.883 χ^2/NDF :1341.8/39

Out: 216.675+/-44.401 χ^2/NDF :2865.3/44

All: 182.979+/-31.565 χ^2/NDF : 4208.2/84

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.429 $\pm$ 0.059 χ^2 /NDF: 696957.4/16

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 199.605 $\pm$ 0.055 χ^2 /NDF: 1127364.9/19

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2 /NDF: 1914604.4/47

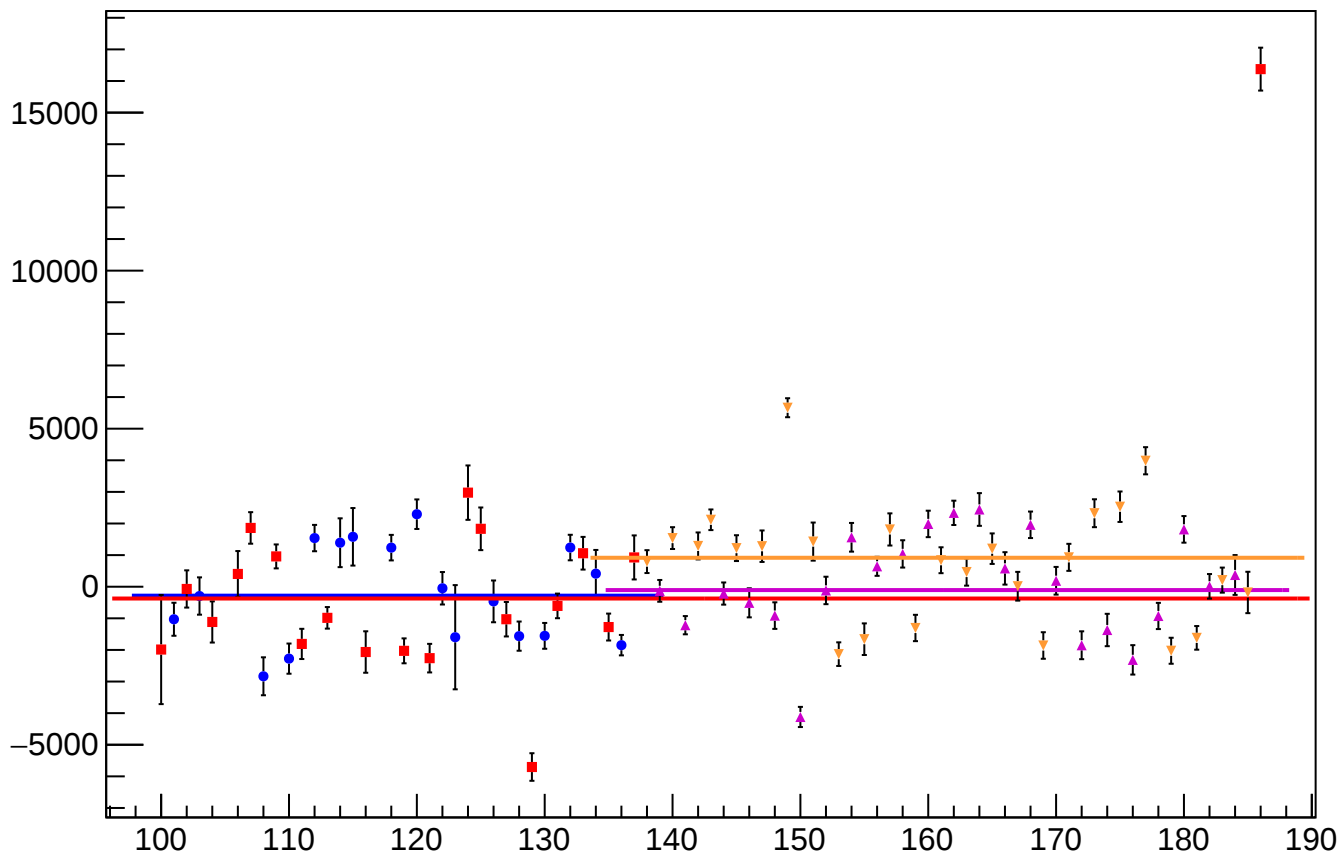
Right: 203.640 $\pm$ 0.040 χ^2 /NDF: 1836295.5/36

In: 212.858 $\pm$ 0.032 χ^2 /NDF: 1730418.5/39

Out: 218.629 $\pm$ 0.031 χ^2 /NDF: 2135733.0/44

All: 215.775 $\pm$ 0.022 χ^2 /NDF: 3882863.0/84

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -283.146+/-121.564 χ^2/NDF : 166.9/16

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: -373.461+/-113.711 χ^2/NDF : 891.6/19

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

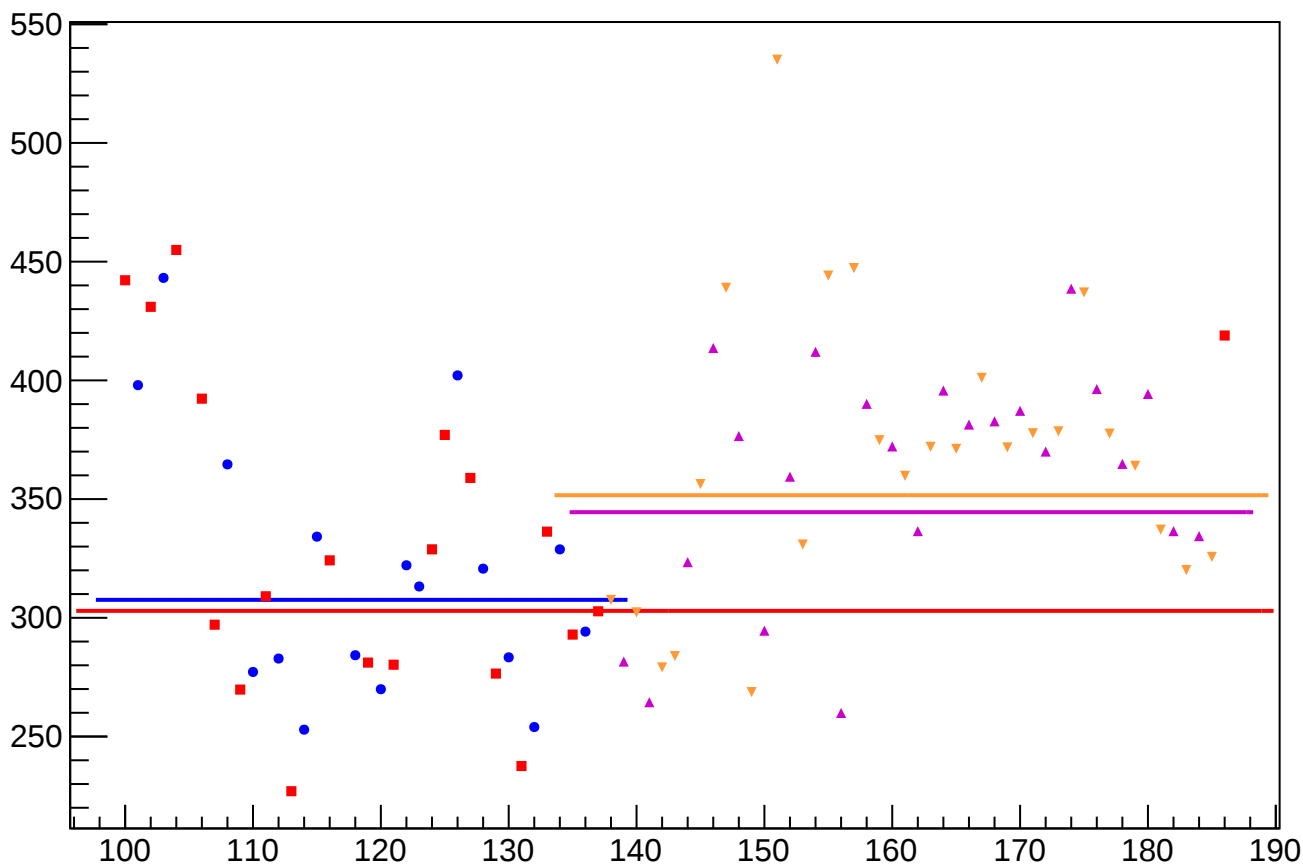
Right: -331.314+/-83.043 χ^2/NDF : 1058.8/36

In: -163.689+/-69.325 χ^2/NDF : 558.6/39

Out: 464.969+/-67.250 χ^2/NDF : 1593.5/44

All: 160.189+/-48.270 χ^2/NDF : 2194.5/84

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.566 ± 0.086 χ^2/NDF : 321522.0/16

Left Out: 351.633 ± 0.059 χ^2/NDF : 907849.3/24

Right Out: 302.926 ± 0.080 χ^2/NDF : 553623.2/19

Left In: 344.491 ± 0.060 χ^2/NDF : 768885.4/22

Left: 348.104 ± 0.042 χ^2/NDF : 1683981.7/47

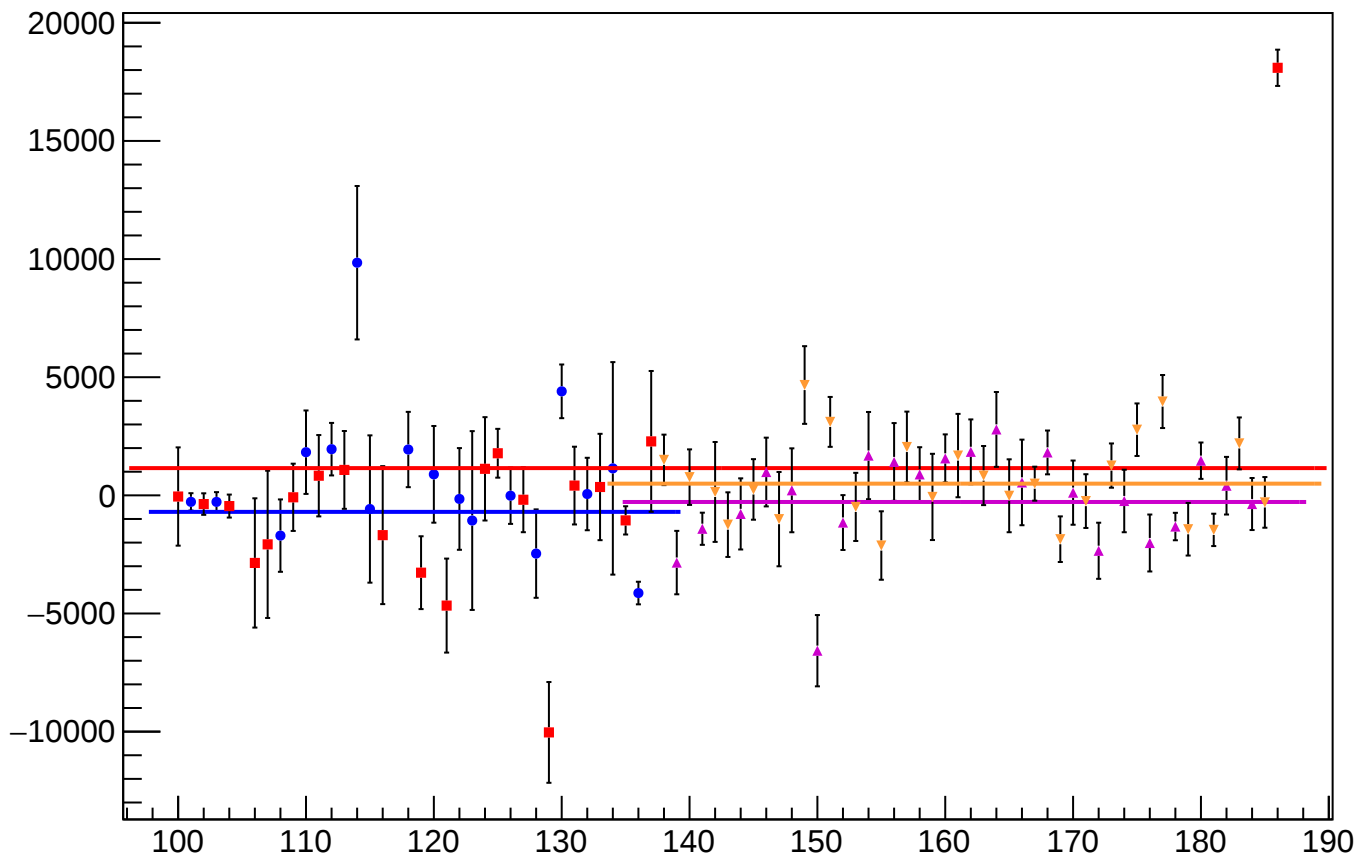
Right: 305.091 ± 0.059 χ^2/NDF : 876699.4/36

In: 332.482 ± 0.049 χ^2/NDF : 1214921.7/39

Out: 334.597 ± 0.048 χ^2/NDF : 1700075.8/44

All: 333.572 ± 0.034 χ^2/NDF : 2915956.1/84

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -699.406 ± 210.504 $\chi^2/\text{NDF}: 97.9/16$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 1152.766 ± 232.030 $\chi^2/\text{NDF}: 574.4/19$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

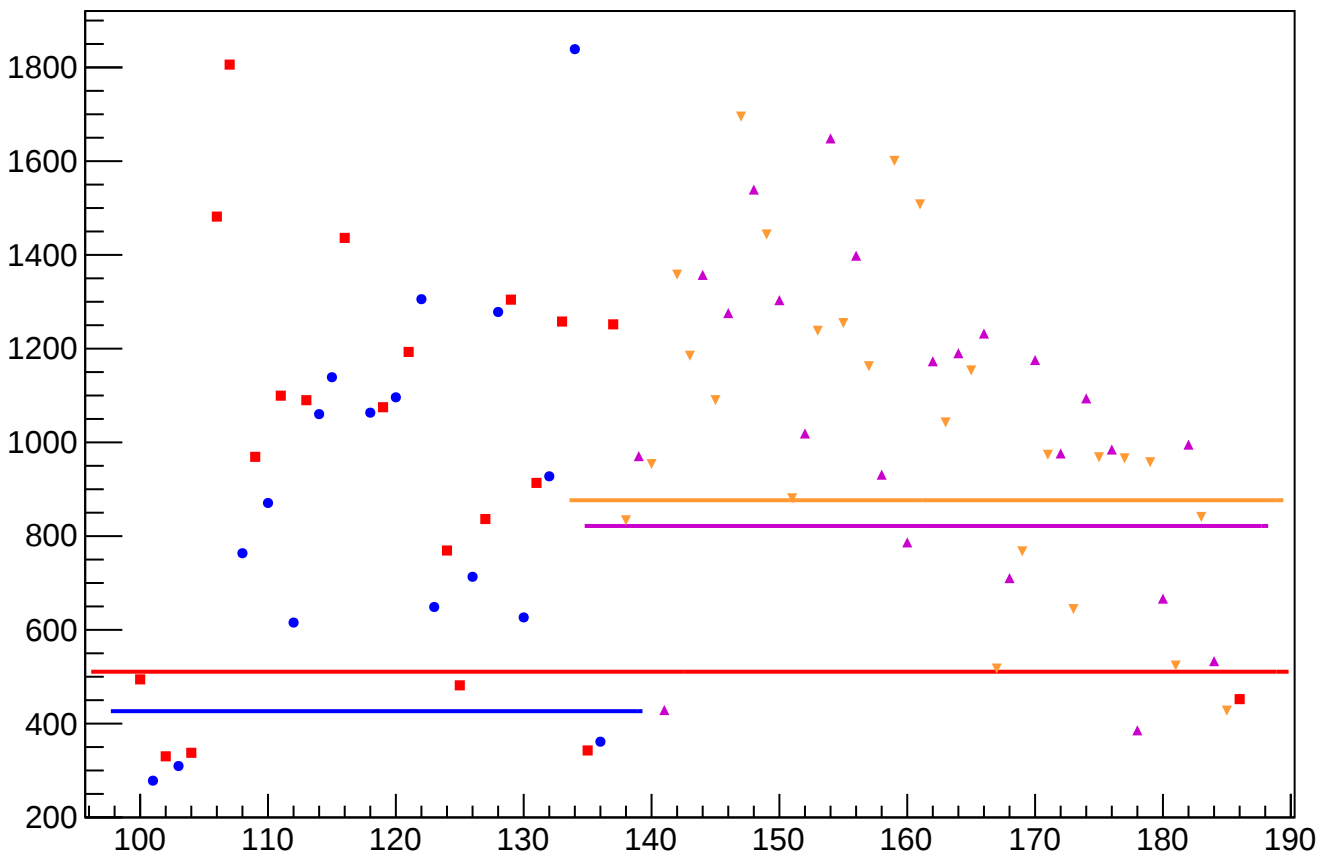
Right: 136.798 ± 155.905 $\chi^2/\text{NDF}: 707.3/36$

In: -510.384 ± 155.910 $\chi^2/\text{NDF}: 156.9/39$

Out: 822.510 ± 163.725 $\chi^2/\text{NDF}: 634.7/44$

All: 123.493 ± 112.907 $\chi^2/\text{NDF}: 826.4/84$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 426.522 $\pm$ 0.149 χ^2 /NDF: 2863074.2/16

Left Out: 876.560 $\pm$ 0.163 χ^2 /NDF:3434698.7/24

Right Out: 510.714 $\pm$ 0.164 χ^2 /NDF: 3610808.4/19

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

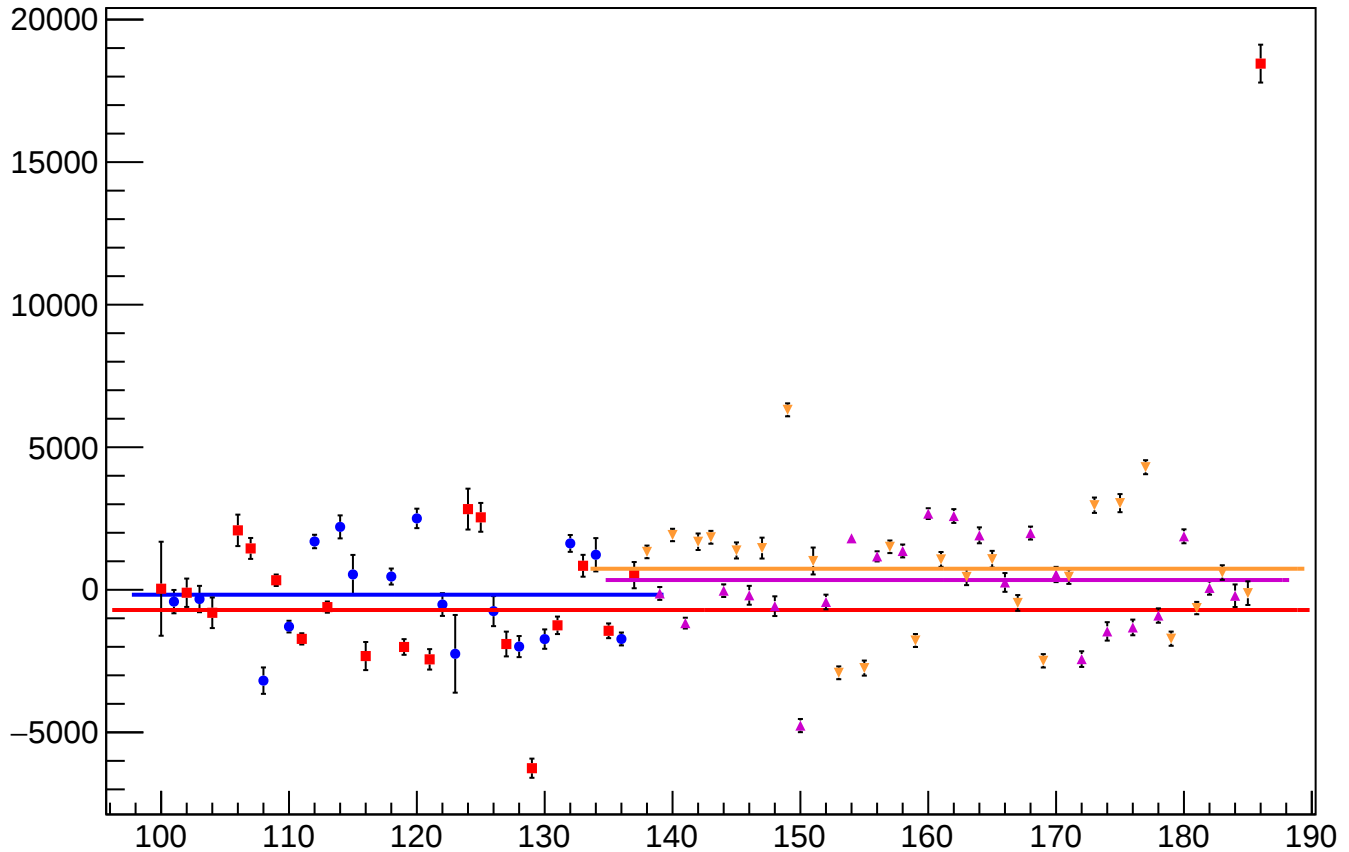
Right: 464.532 $\pm$ 0.110 χ^2 /NDF: 6618322.6/36

In: 604.899 $\pm$ 0.110 χ^2 /NDF:10487415.9/39

Out: 694.405 $\pm$ 0.116 χ^2 /NDF:9541988.1/44

All: 647.465 $\pm$ 0.080 χ^2 /NDF: 20342868.4/84

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -172.521 ± 82.544 χ^2/NDF : 376.5/16

Left Out: 738.847 ± 51.649 χ^2/NDF : 1935.2/24

Right Out: -708.658 ± 74.629 χ^2/NDF : 1383.5/19

Left In: 342.465 ± 50.044 χ^2/NDF : 1254.9/22

Left: 534.403 ± 35.941 χ^2/NDF : 3220.5/47

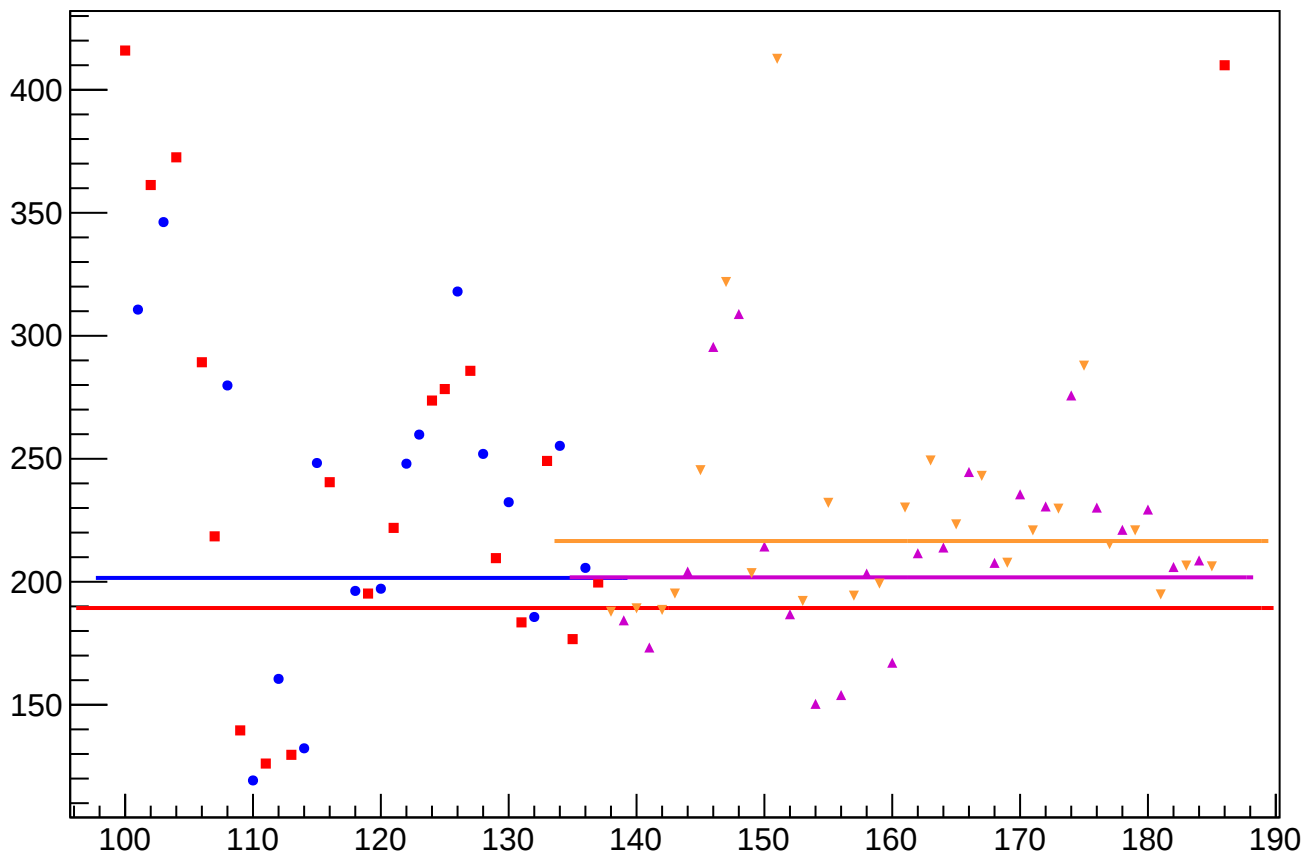
Right: -467.523 ± 55.358 χ^2/NDF : 1783.2/36

In: 204.050 ± 42.794 χ^2/NDF : 1659.9/39

Out: 270.064 ± 42.470 χ^2/NDF : 3573.1/44

All: 237.308 ± 30.145 χ^2/NDF : 5234.2/84

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.572 $\pm$ 0.058 χ^2/NDF : 1052330.1/16

Left Out: 216.574 $\pm$ 0.037 χ^2/NDF :886214.1/24

Right Out: 189.339 $\pm$ 0.053 χ^2/NDF : 1611739.0/19

Left In: 201.805 $\pm$ 0.035 χ^2/NDF :1087243.4/22

Left: 208.957 $\pm$ 0.025 χ^2/NDF : 2057801.5/47

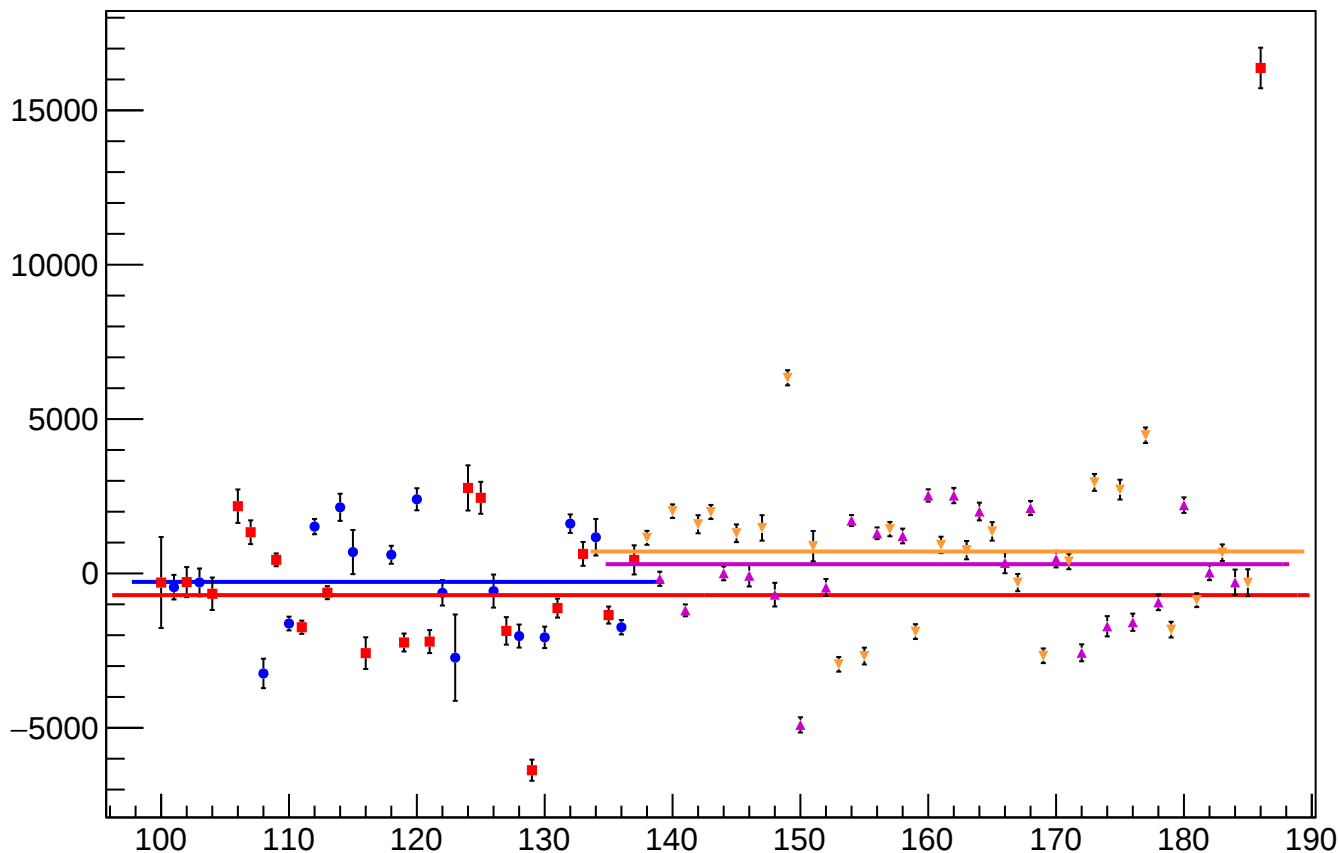
Right: 194.841 $\pm$ 0.039 χ^2/NDF : 2688239.9/36

In: 201.743 $\pm$ 0.030 χ^2/NDF :2139585.1/39

Out: 207.754 $\pm$ 0.030 χ^2/NDF :2678059.6/44

All: 204.771 $\pm$ 0.021 χ^2/NDF : 4837525.7/84

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -273.296 $\pm$ 85.630 χ^2/NDF : 362.8/16

Left Out: 711.174 $\pm$ 53.245 χ^2/NDF :1835.3/24

Right Out: -701.475 $\pm$ 77.847 χ^2/NDF : 1208.6/19

Left In: 300.516 $\pm$ 51.984 χ^2/NDF :1208.6/22

Left: 500.925 $\pm$ 37.196 χ^2/NDF : 3074.4/47

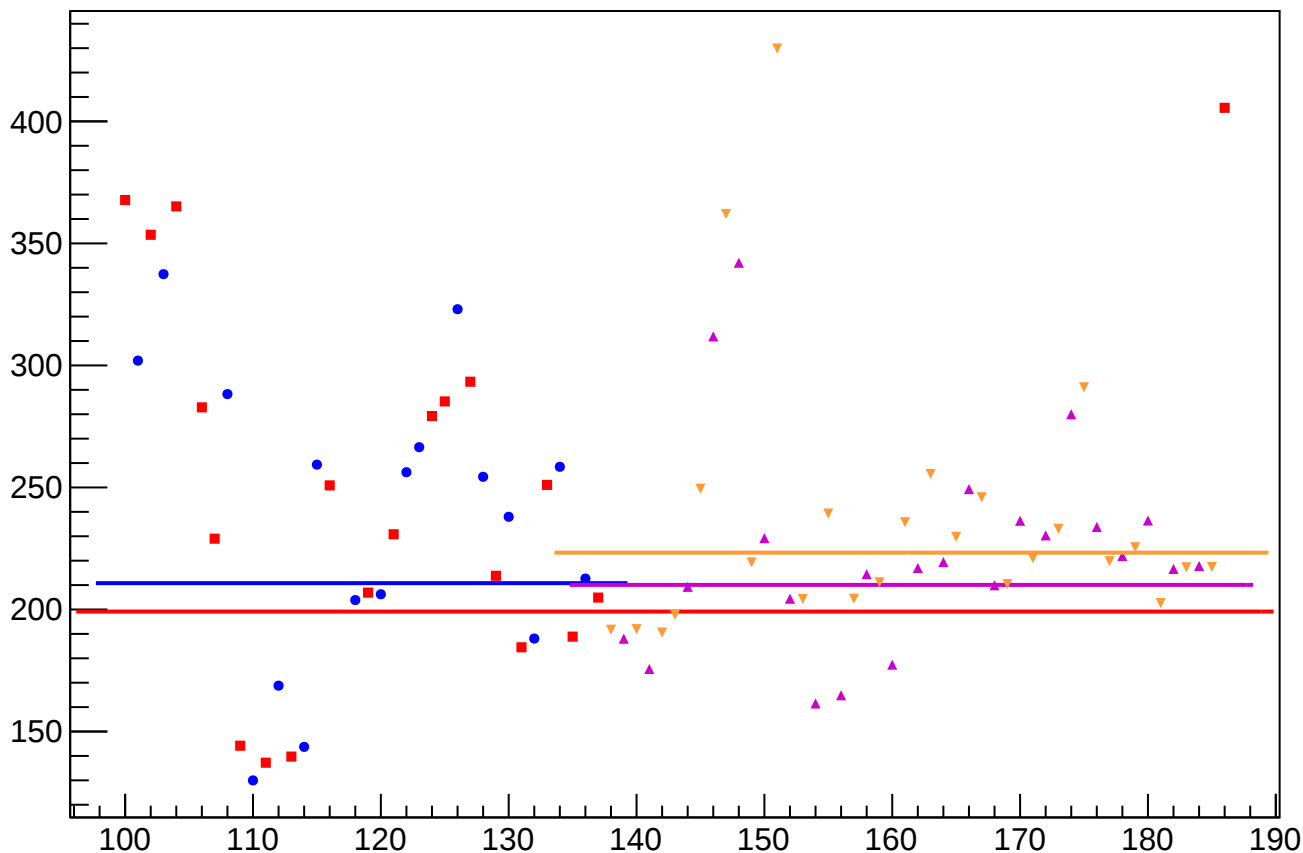
Right: -507.725 $\pm$ 57.602 χ^2/NDF : 1585.1/36

In: 145.992 $\pm$ 44.436 χ^2/NDF :1604.2/39

Out: 260.942 $\pm$ 43.948 χ^2/NDF :3268.3/44

All: 204.102 $\pm$ 31.247 χ^2/NDF : 4875.9/84

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.791 ± 0.061 $\chi^2/\text{NDF}: 873120.0/16$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 199.152 ± 0.055 $\chi^2/\text{NDF}: 1401581.9/19$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

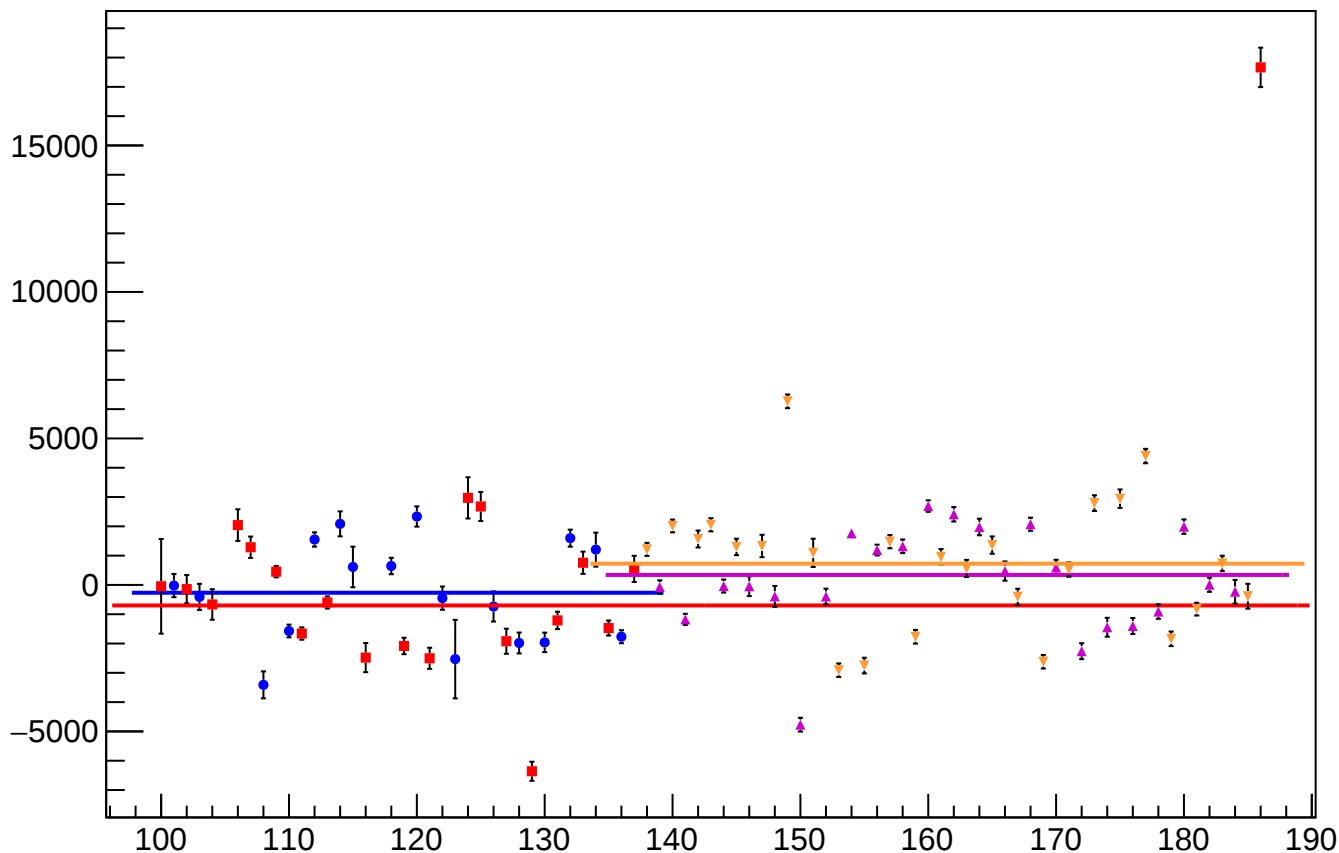
Right: 204.419 ± 0.041 $\chi^2/\text{NDF}: 2294932.3/36$

In: 210.271 ± 0.031 $\chi^2/\text{NDF}: 1888495.3/39$

Out: 215.601 ± 0.031 $\chi^2/\text{NDF}: 2455421.4/44$

All: 212.966 ± 0.022 $\chi^2/\text{NDF}: 4358461.3/84$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -266.674 $\pm$ 82.997 χ^2/NDF : 383.4/16

Left Out: 725.866 $\pm$ 52.158 χ^2/NDF :1912.7/24

Right Out: -700.526 $\pm$ 75.000 χ^2/NDF : 1337.5/19

Left In: 340.502 $\pm$ 50.802 χ^2/NDF :1201.8/22

Left: 528.110 $\pm$ 36.393 χ^2/NDF : 3142.6/47

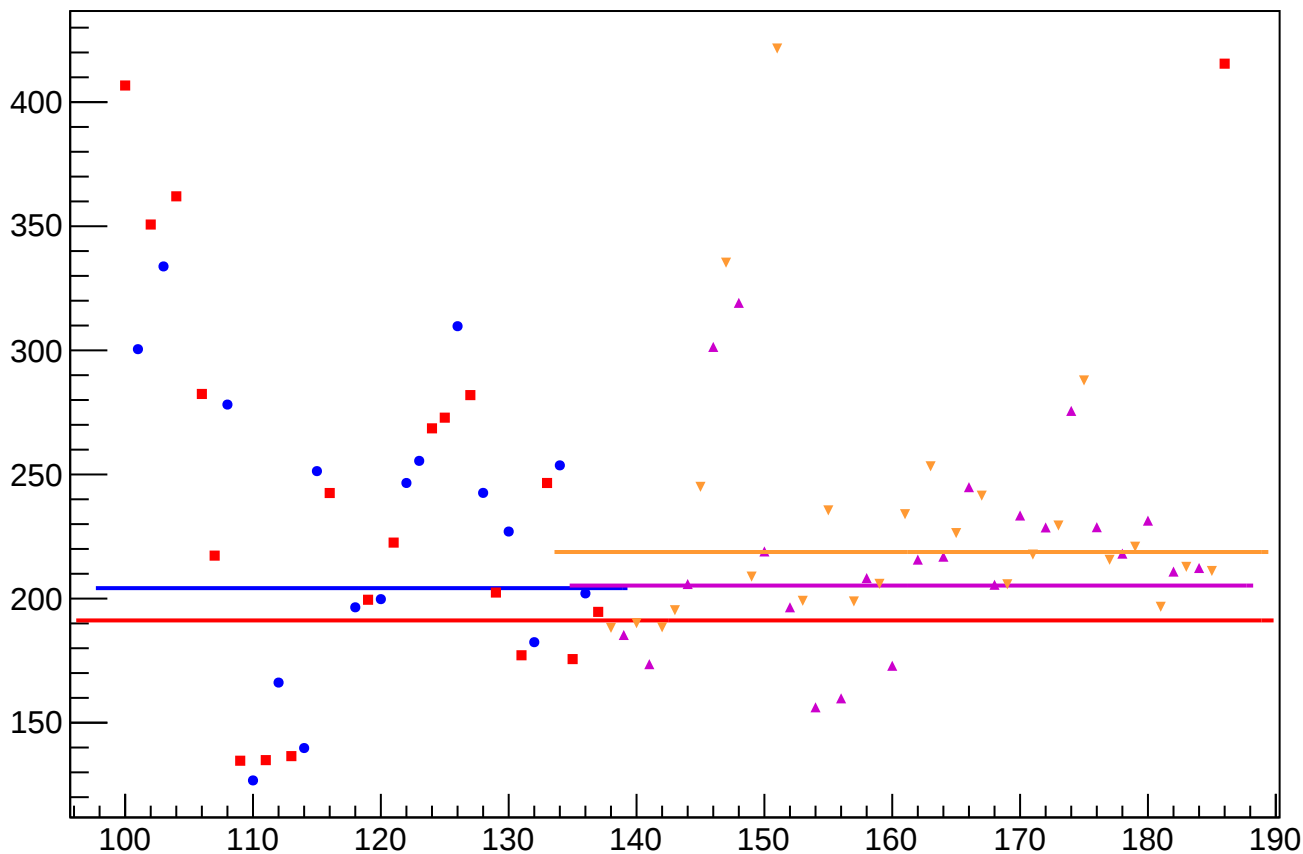
Right: -505.504 $\pm$ 55.646 χ^2/NDF : 1735.9/36

In: 175.016 $\pm$ 43.330 χ^2/NDF :1624.2/39

Out: 260.883 $\pm$ 42.821 χ^2/NDF :3494.0/44

All: 218.456 $\pm$ 30.457 χ^2/NDF : 5120.2/84

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.211+/-0.059 χ^2/NDF : 866108.6/16

Left Out: 218.768+/-0.037 χ^2/NDF :896914.5/24

Right Out: 191.202+/-0.053 χ^2/NDF : 1472429.0/19

Left In: 205.249+/-0.036 χ^2/NDF :997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

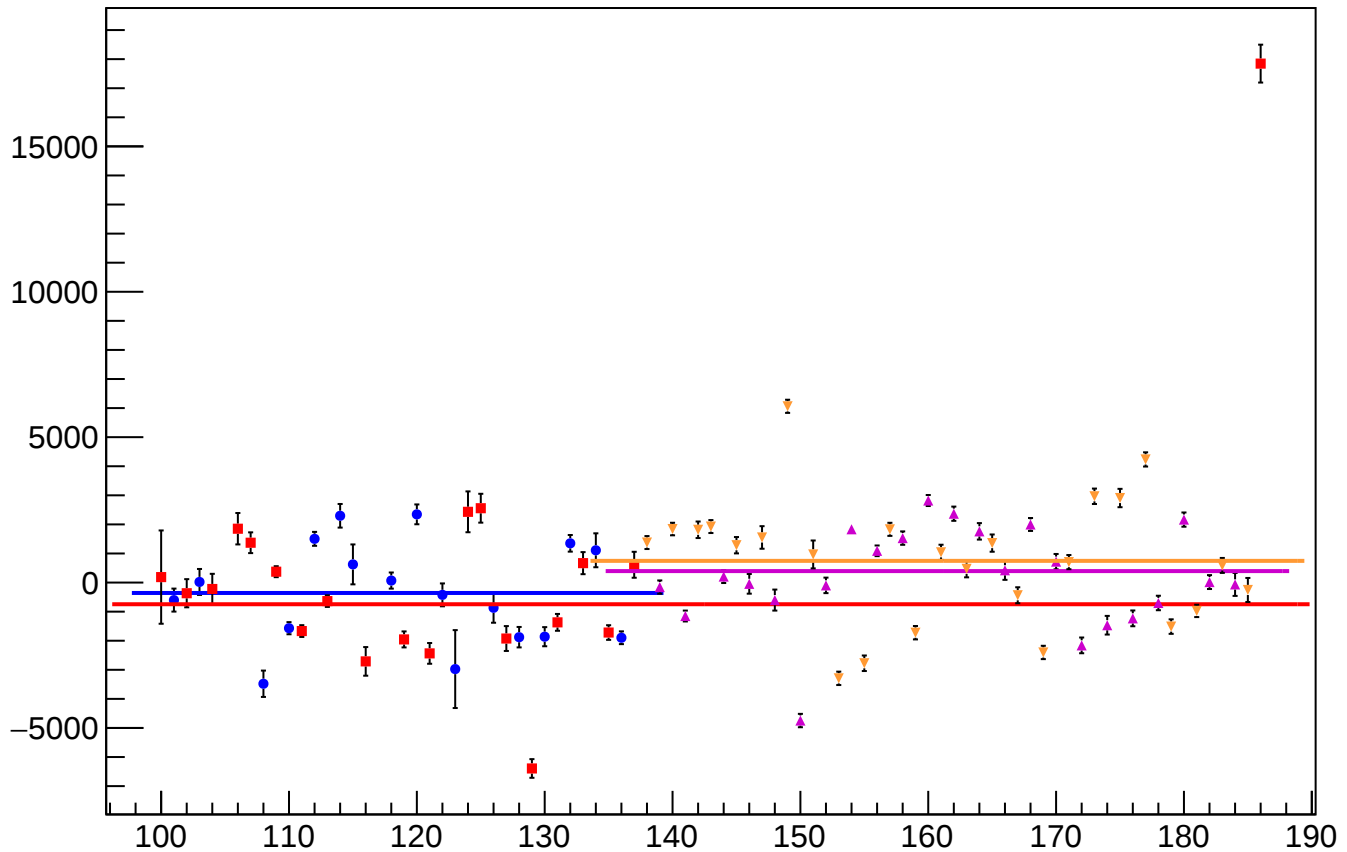
Right: 197.050+/-0.039 χ^2/NDF : 2365588.9/36

In: 204.966+/-0.031 χ^2/NDF :1863504.8/39

Out: 209.782+/-0.030 χ^2/NDF :2551462.7/44

All: 207.403+/-0.022 χ^2/NDF : 4427466.5/84

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -357.821+/-81.517 χ^2/NDF : 388.2/16

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: -745.366+/-73.381 χ^2/NDF : 1413.3/19

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

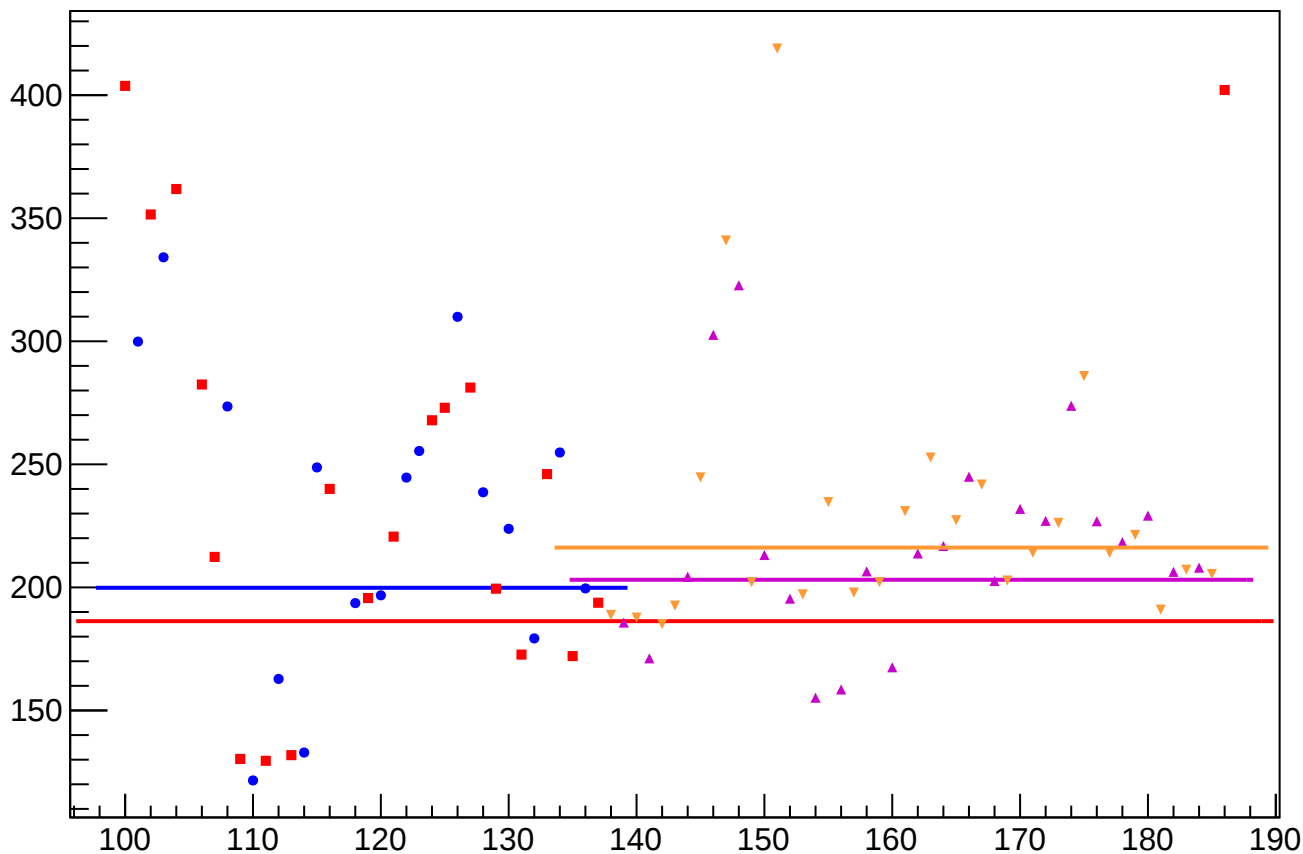
Right: -571.893+/-54.538 χ^2/NDF : 1814.1/36

In: 186.888+/-42.813 χ^2/NDF :1686.3/39

Out: 252.941+/-42.205 χ^2/NDF :3632.0/44

All: 220.387+/-30.056 χ^2/NDF : 5319.5/84

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.847 $\pm$ 0.058 χ^2 /NDF: 940786.8/16

Left Out: 216.178 $\pm$ 0.036 χ^2 /NDF: 946050.8/24

Right Out: 186.287 $\pm$ 0.052 χ^2 /NDF: 1568249.2/19

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

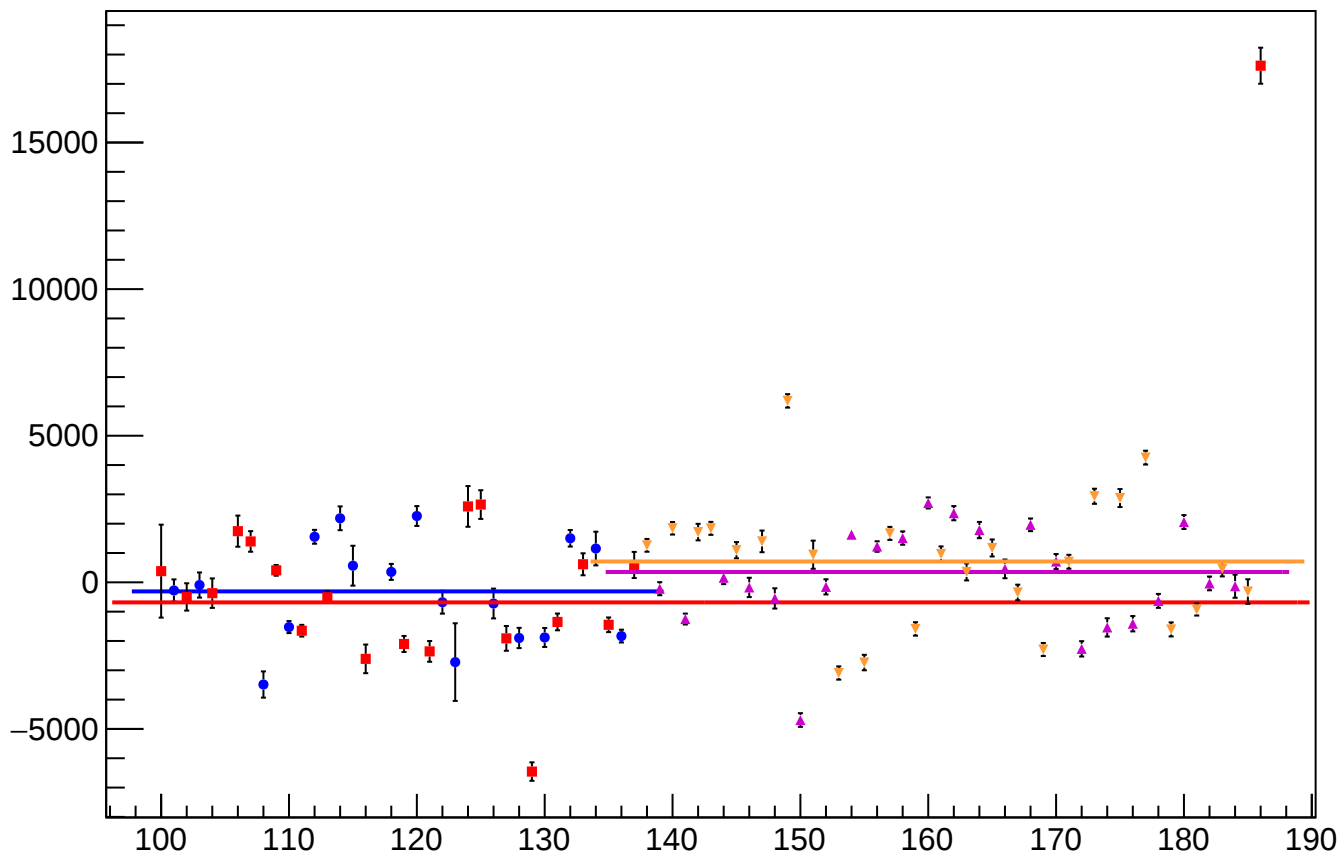
Right: 192.357 $\pm$ 0.039 χ^2 /NDF: 2539604.5/36

In: 202.203 $\pm$ 0.030 χ^2 /NDF: 1981107.2/39

Out: 206.290 $\pm$ 0.030 χ^2 /NDF: 2736371.5/44

All: 204.276 $\pm$ 0.021 χ^2 /NDF: 4726722.4/84

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -309.418 ± 80.357 $\chi^2/\text{NDF}: 396.4/16$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: -683.927 ± 72.212 $\chi^2/\text{NDF}: 1516.1/19$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

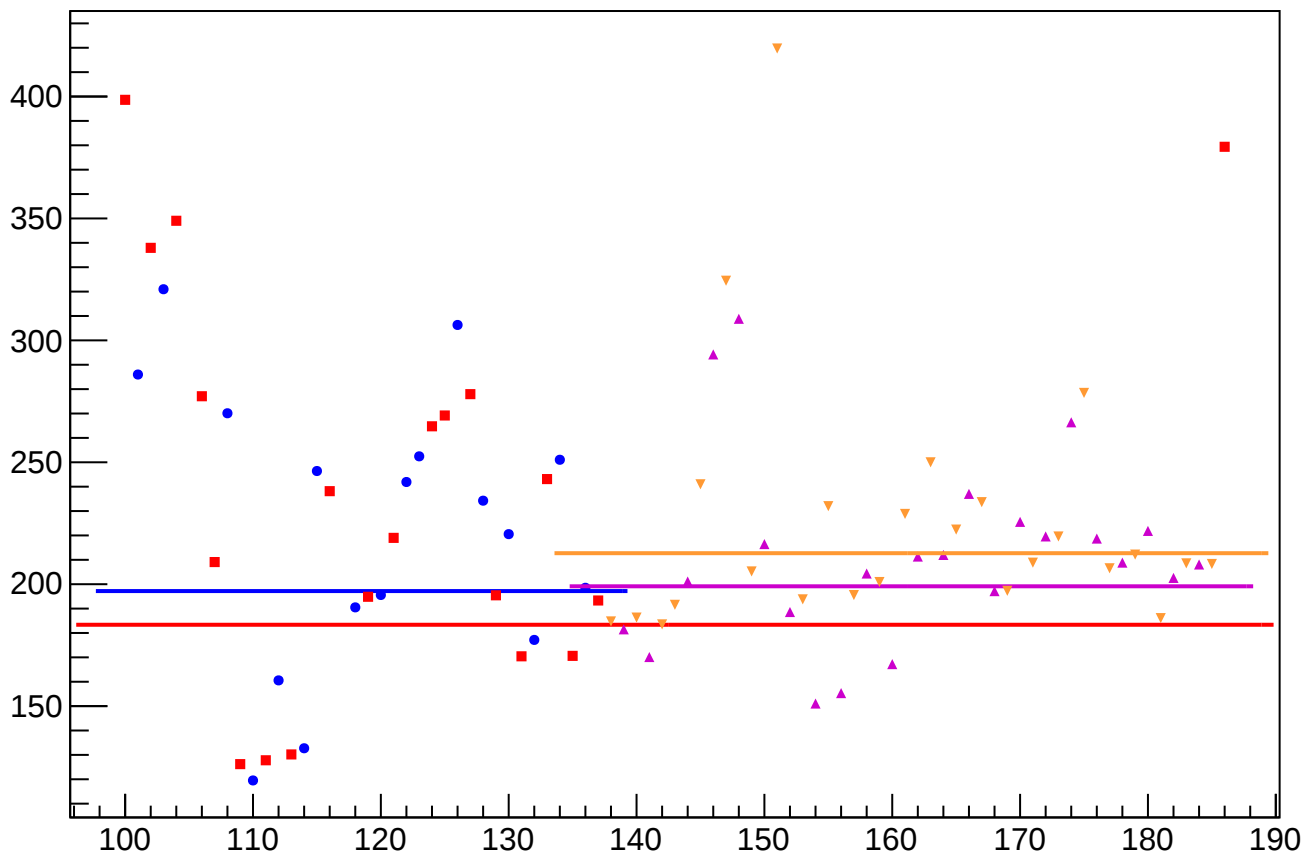
Right: -516.608 ± 53.711 $\chi^2/\text{NDF}: 1924.6/36$

In: 171.353 ± 42.032 $\chi^2/\text{NDF}: 1678.8/39$

Out: 249.299 ± 41.522 $\chi^2/\text{NDF}: 3697.9/44$

All: 210.802 ± 29.539 $\chi^2/\text{NDF}: 5378.4/84$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.185 $\pm$ 0.057 χ^2 /NDF: 909929.0/16

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 183.368 $\pm$ 0.051 χ^2 /NDF: 1548110.1/19

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

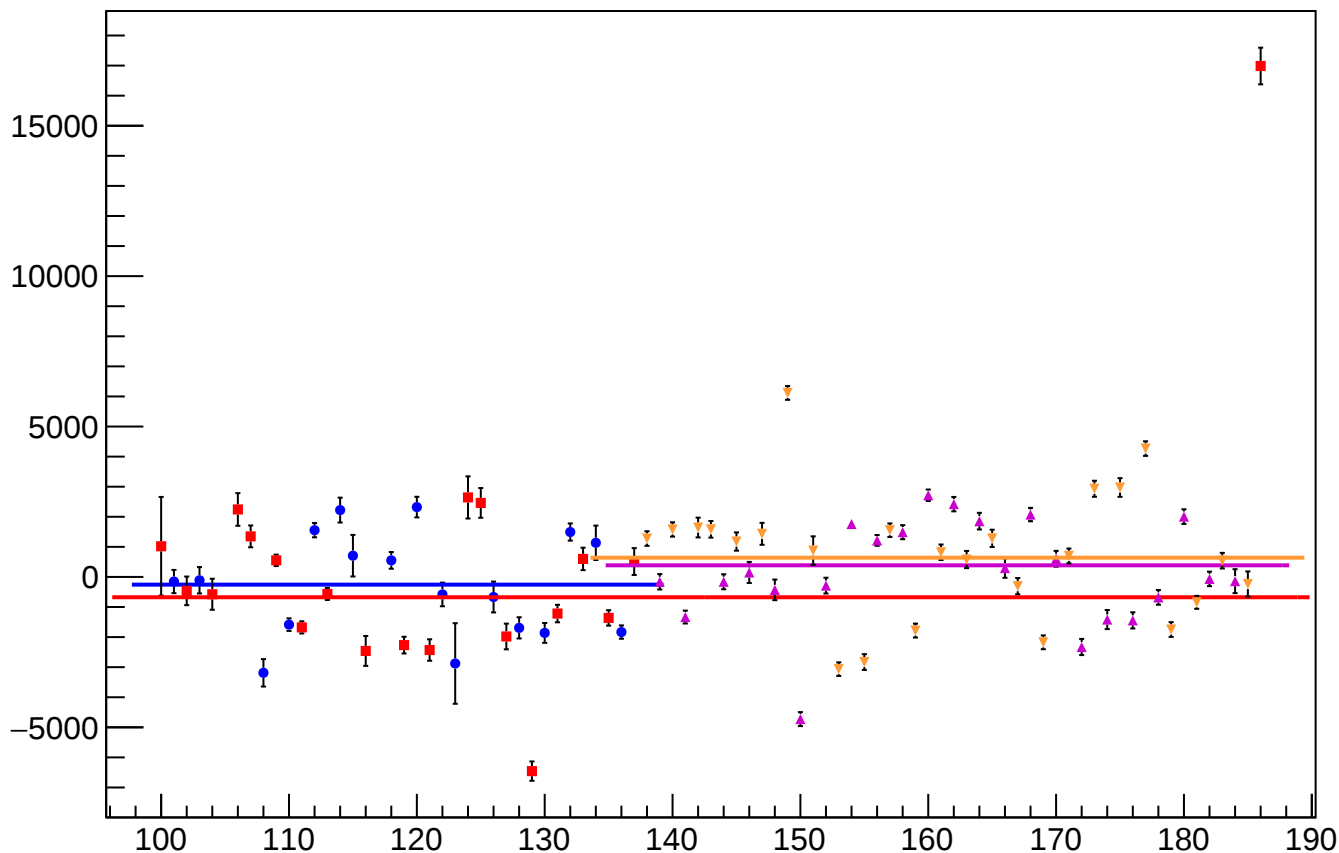
Right: 189.541 $\pm$ 0.038 χ^2 /NDF: 2490751.3/36

In: 198.607 $\pm$ 0.030 χ^2 /NDF: 1896723.1/39

Out: 203.015 $\pm$ 0.029 χ^2 /NDF: 2685495.1/44

All: 200.837 $\pm$ 0.021 χ^2 /NDF: 4593350.9/84

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -256.429+/-81.594 χ^2/NDF : 381.8/16

Left Out: 639.995+/-52.708 χ^2/NDF :1859.2/24

Right Out: -675.791+/-73.625 χ^2/NDF : 1461.7/19

Left In: 386.248+/-50.994 χ^2/NDF :1238.0/22

Left: 508.926+/-36.649 χ^2/NDF : 3109.2/47

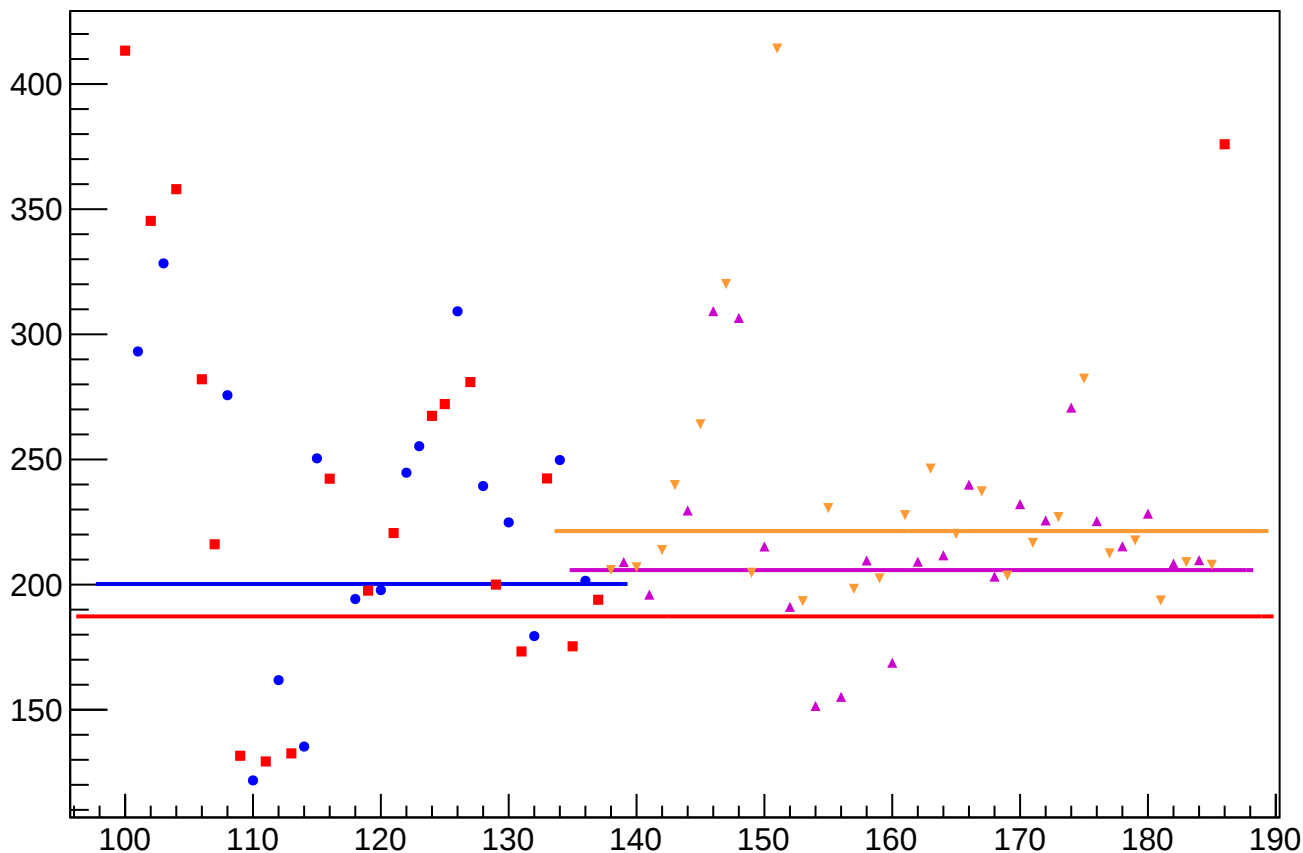
Right: -487.583+/-54.661 χ^2/NDF : 1858.1/36

In: 205.733+/-43.243 χ^2/NDF :1664.5/39

Out: 194.139+/-42.858 χ^2/NDF :3532.1/44

All: 199.884+/-30.440 χ^2/NDF : 5196.7/84

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.256 $\pm$ 0.058 χ^2 /NDF: 915910.1/16

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 187.305 $\pm$ 0.052 χ^2 /NDF: 1509263.8/19

Left In: 205.803 $\pm$ 0.036 χ^2 /NDF: 994903.5/22

Left: 213.343 $\pm$ 0.026 χ^2 /NDF: 1863169.5/47

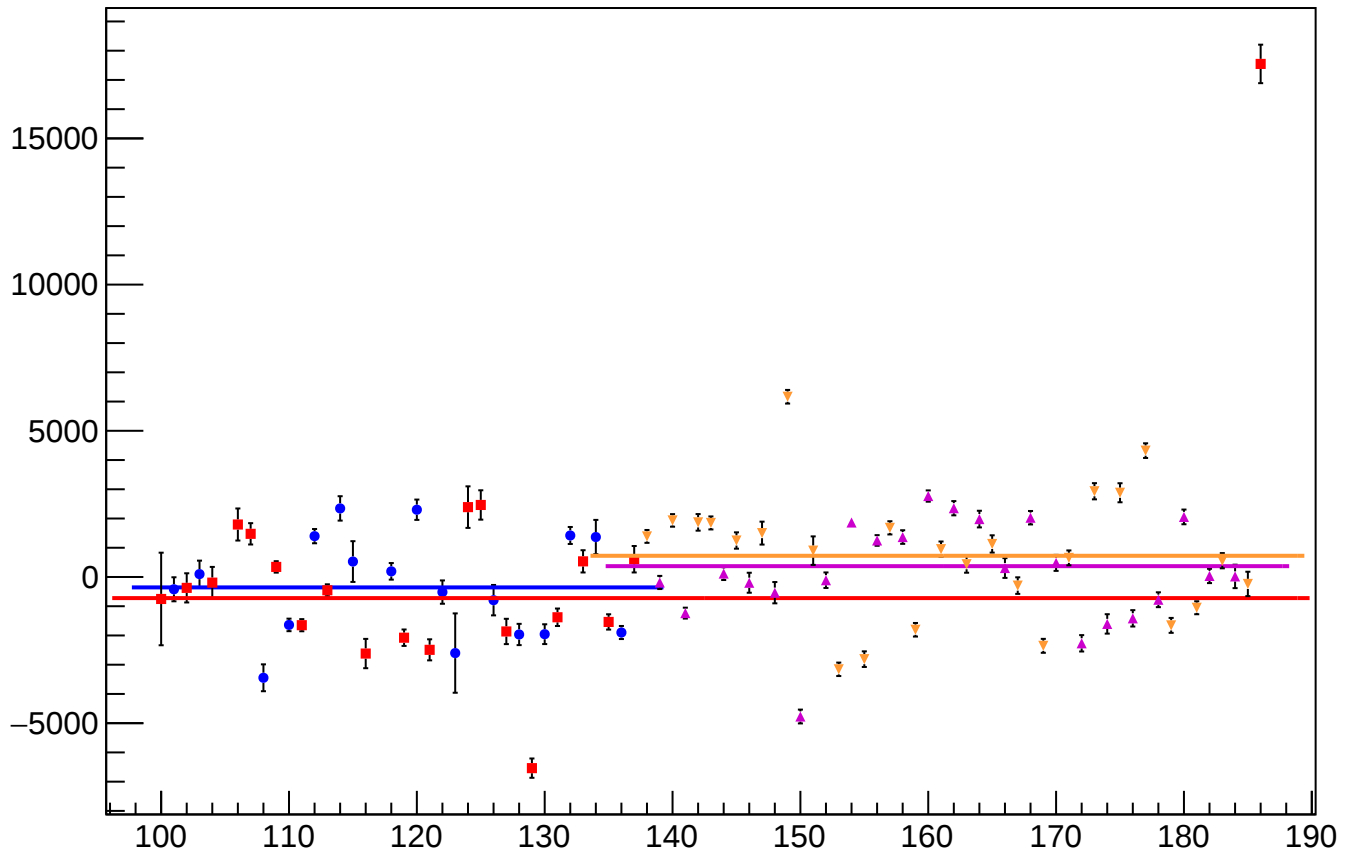
Right: 193.117 $\pm$ 0.039 χ^2 /NDF: 2452948.4/36

In: 204.245 $\pm$ 0.031 χ^2 /NDF: 1917462.0/39

Out: 209.845 $\pm$ 0.030 χ^2 /NDF: 2570642.0/44

All: 207.070 $\pm$ 0.022 χ^2 /NDF: 4505026.4/84

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -356.124 $\pm$ 83.321 χ^2/NDF : 378.6/16

Left Out: 725.250 $\pm$ 52.307 χ^2/NDF :1883.1/24

Right Out: -722.111 $\pm$ 75.217 χ^2/NDF : 1352.7/19

Left In: 370.408 $\pm$ 50.884 χ^2/NDF :1223.2/22

Left: 542.938 $\pm$ 36.473 χ^2/NDF : 3129.9/47

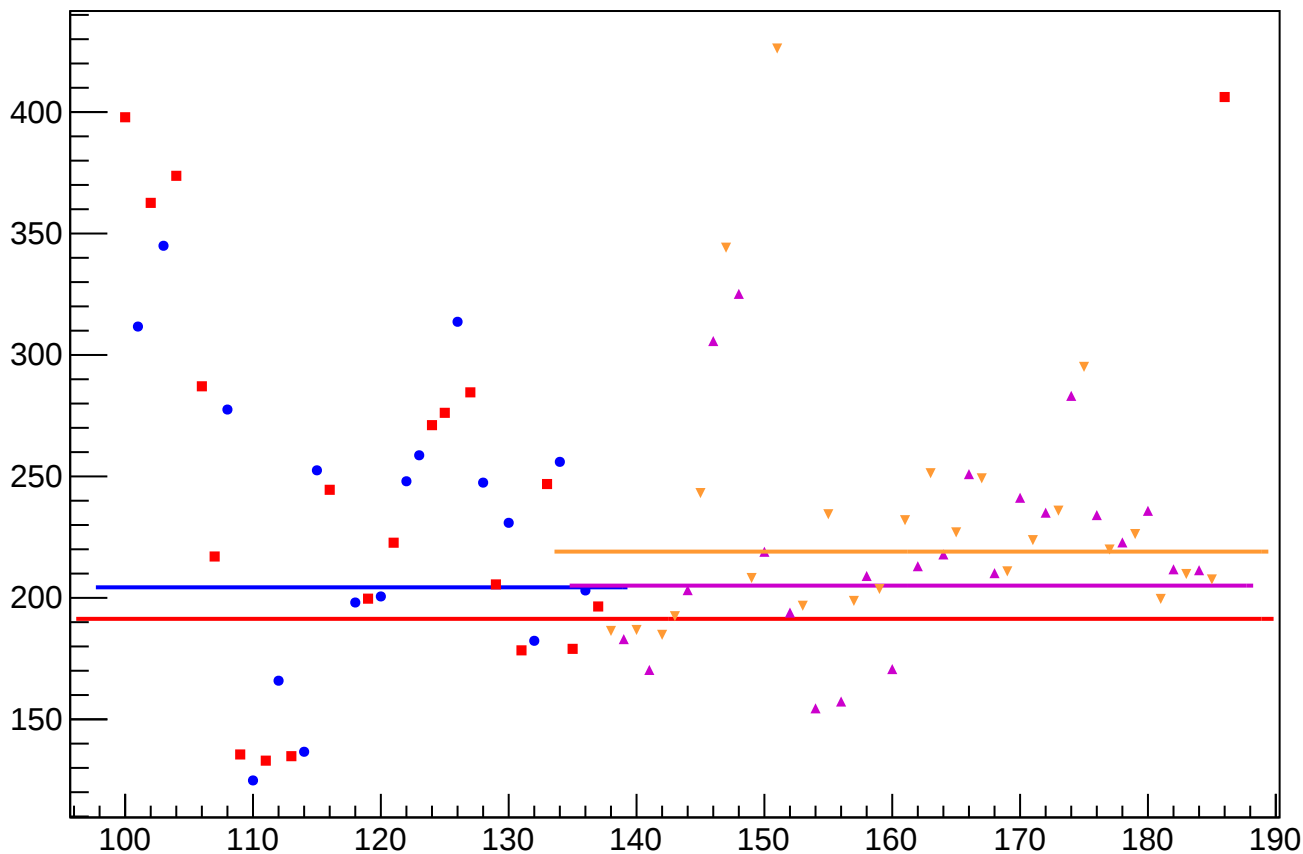
Right: -557.777 $\pm$ 55.832 χ^2/NDF : 1741.9/36

In: 173.049 $\pm$ 43.427 χ^2/NDF :1657.1/39

Out: 253.462 $\pm$ 42.944 χ^2/NDF :3485.4/44

All: 213.705 $\pm$ 30.535 χ^2/NDF : 5144.2/84

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.343+/-0.059 χ^2/NDF : 944923.9/16

Left Out: 219.049+/-0.037 χ^2/NDF : 975564.4/24

Right Out: 191.365+/-0.053 χ^2/NDF : 1526884.6/19

Left In: 205.046+/-0.036 χ^2/NDF : 1144197.1/22

Left: 211.855+/-0.026 χ^2/NDF : 2193394.9/47

Right: 197.192+/-0.039 χ^2/NDF : 2498543.1/36

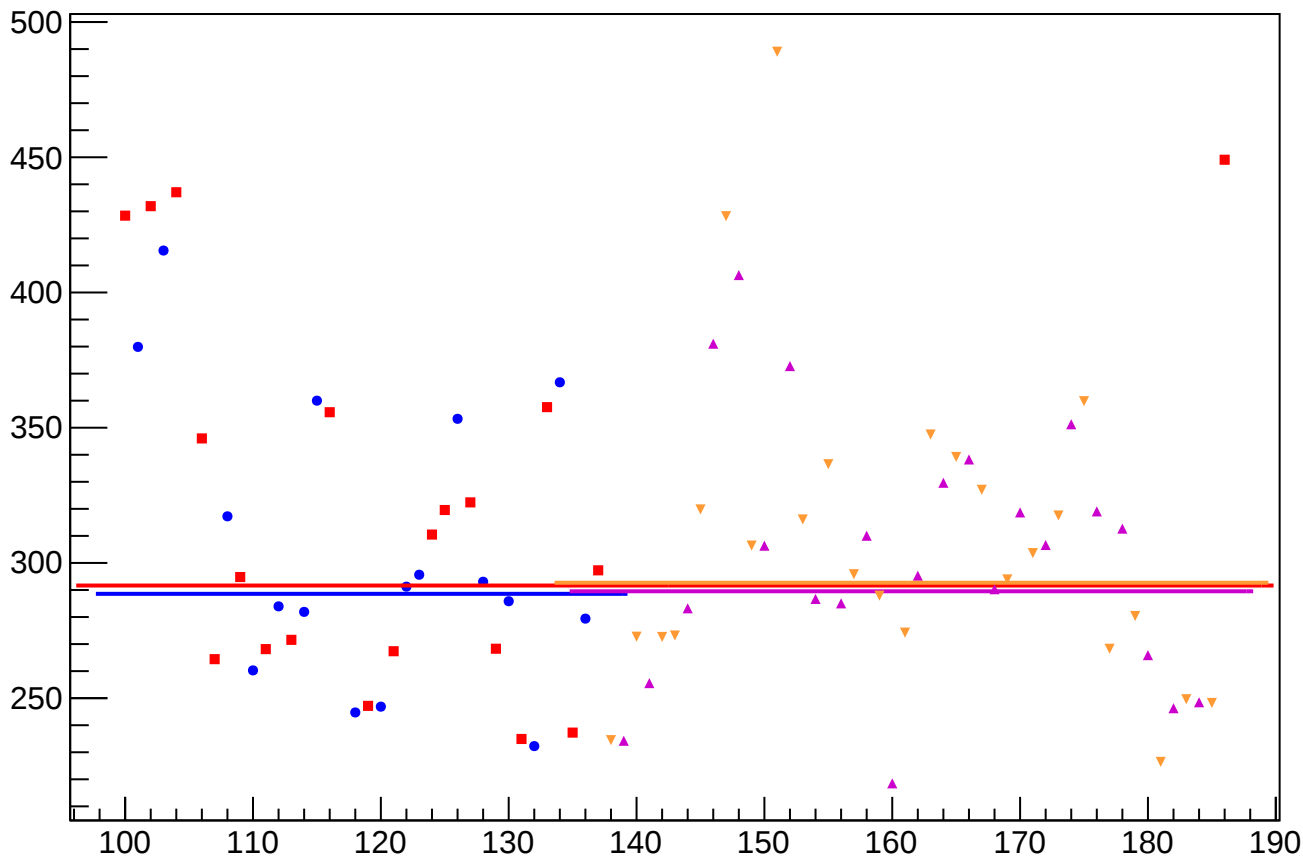
In: 204.855+/-0.031 χ^2/NDF : 2089224.9/39

Out: 210.025+/-0.030 χ^2/NDF : 2685062.3/44

All: 207.469+/-0.022 χ^2/NDF : 4788615.1/84

All: 210.333+/-42.070 χ^2/NDF : 2920.9/84

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.577 $\pm$ 0.081 χ^2 /NDF: 338793.1/16

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 291.653 $\pm$ 0.077 χ^2 /NDF: 555880.0/19

Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2 /NDF: 1705121.5/47

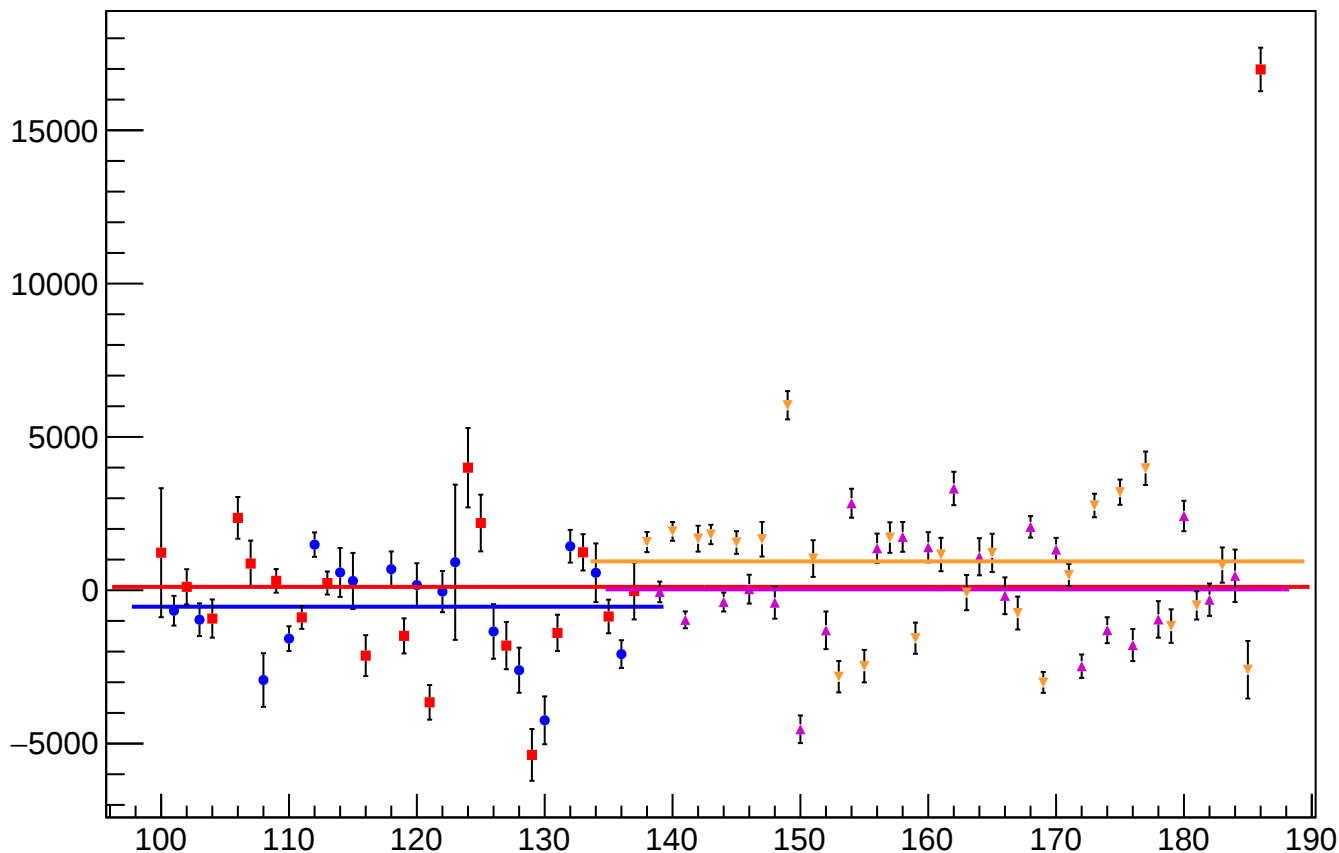
Right: 290.178 $\pm$ 0.056 χ^2 /NDF: 895428.7/36

In: 289.258 $\pm$ 0.043 χ^2 /NDF: 1116792.9/39

Out: 292.389 $\pm$ 0.042 χ^2 /NDF: 1481200.3/44

All: 290.864 $\pm$ 0.030 χ^2 /NDF: 2600759.9/84

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -536.568±/147.571 χ^2/NDF : 107.9/16

Left Out: 941.598±/89.119 χ^2/NDF :544.6/24

Right Out: 110.149±/133.347 χ^2/NDF : 725.9/19

Left In: 27.763±/92.331 χ^2/NDF :362.5/22

Left: 500.853±/64.122 χ^2/NDF : 957.8/47

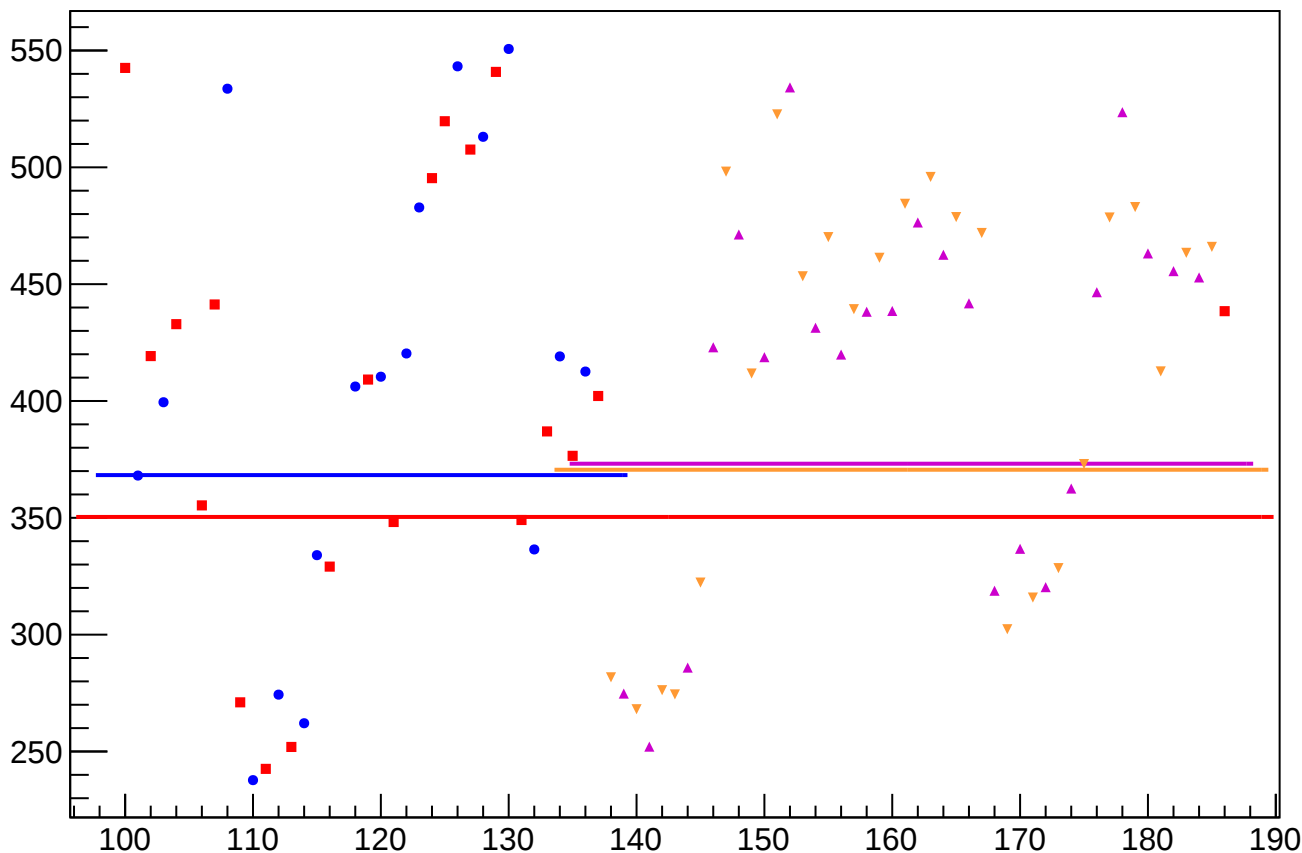
Right: -180.546±/98.938 χ^2/NDF : 844.4/36

In: -131.003±/78.273 χ^2/NDF :480.9/39

Out: 684.886±/74.095 χ^2/NDF :1297.4/44

All: 299.299±/53.809 χ^2/NDF : 1835.6/84

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.287 ± 0.104 χ^2/NDF : 765418.4/16

Left Out: 370.580 ± 0.063 χ^2/NDF : 1878118.9/24

Right Out: 350.376 ± 0.094 χ^2/NDF : 848177.8/19

Left In: 373.161 ± 0.065 χ^2/NDF : 1636244.2/22

Left: 371.824 ± 0.045 χ^2/NDF : 3515172.3/47

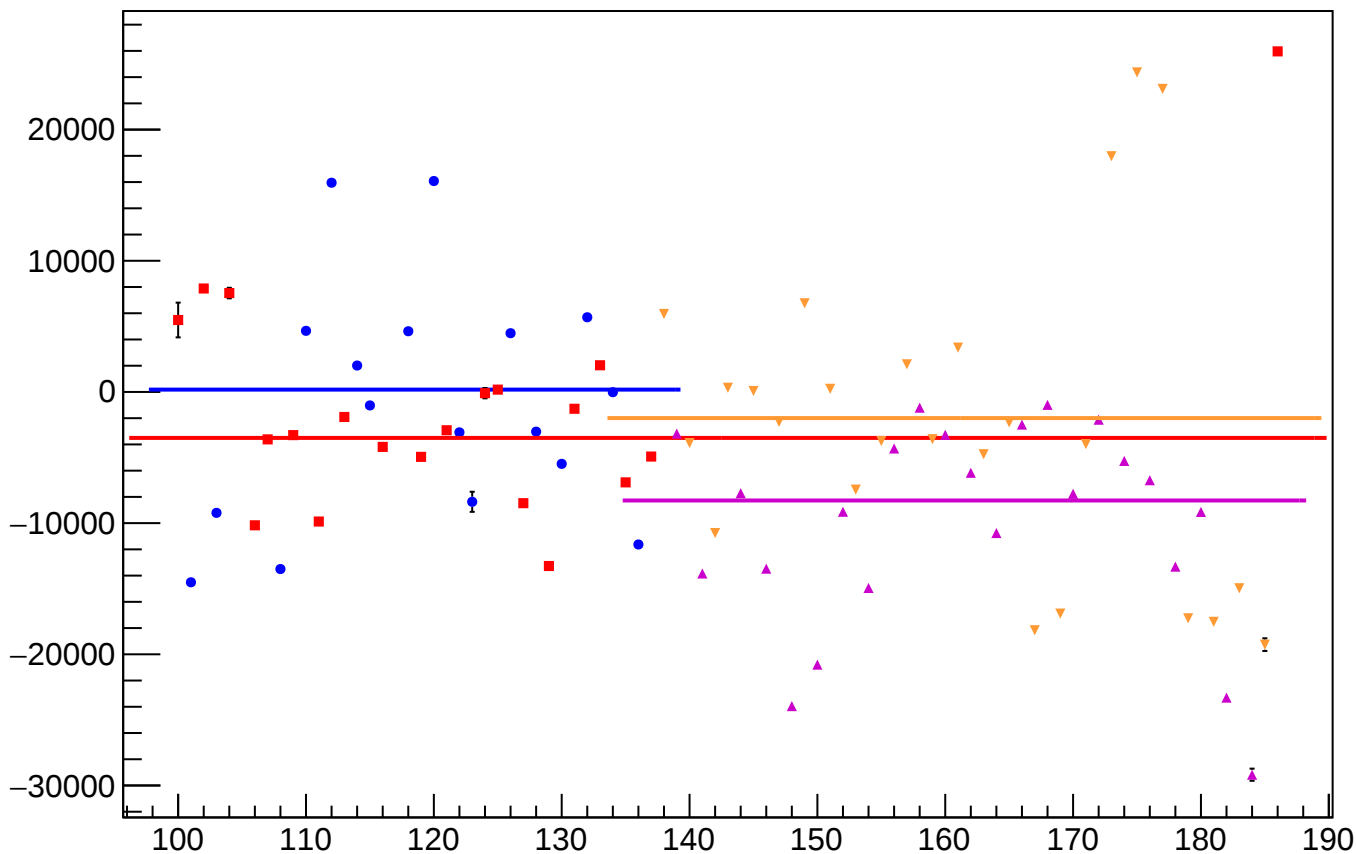
Right: 358.427 ± 0.070 χ^2/NDF : 1629815.6/36

In: 371.790 ± 0.055 χ^2/NDF : 2403230.1/39

Out: 364.342 ± 0.052 χ^2/NDF : 2758032.1/44

All: 367.862 ± 0.038 χ^2/NDF : 5170812.4/84

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788+/-54.896 χ^2/NDF : 30662.2/16

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: -3503.372+/-51.555 χ^2/NDF : 18780.9/19

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

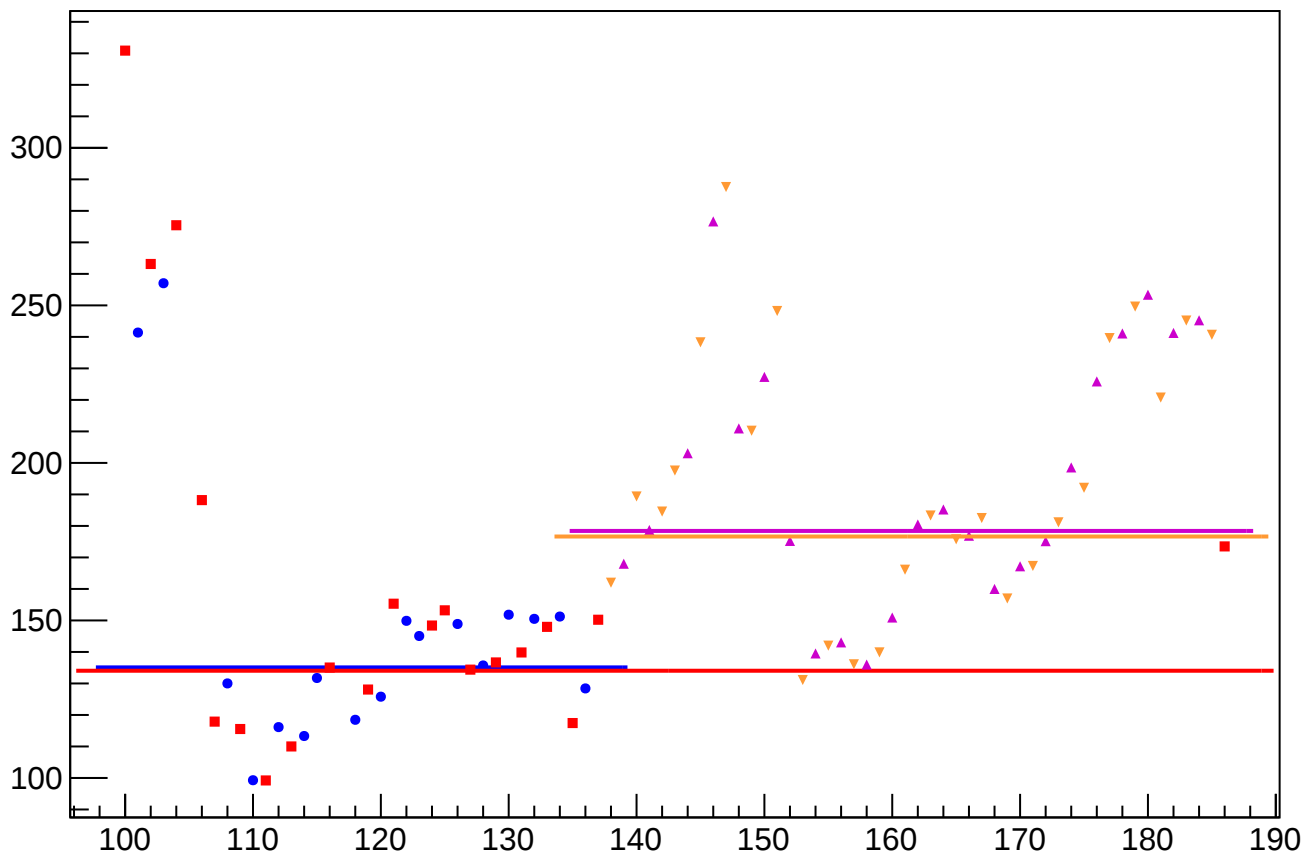
Right: -1777.749+/-37.581 χ^2/NDF : 51833.6/36

In: -4939.792+/-34.475 χ^2/NDF : 67888.0/39

Out: -2602.131+/-32.760 χ^2/NDF : 83060.0/44

All: -3711.357+/-23.748 χ^2/NDF : 153364.0/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099 +/- 0.039 χ^2/NDF : 657657.4/16

Left Out: 176.641 +/- 0.030 χ^2/NDF : 1551048.8/24

Right Out: 134.038 +/- 0.036 χ^2/NDF : 868914.0/19

Left In: 178.413 +/- 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 +/- 0.022 χ^2/NDF : 2846455.0/47

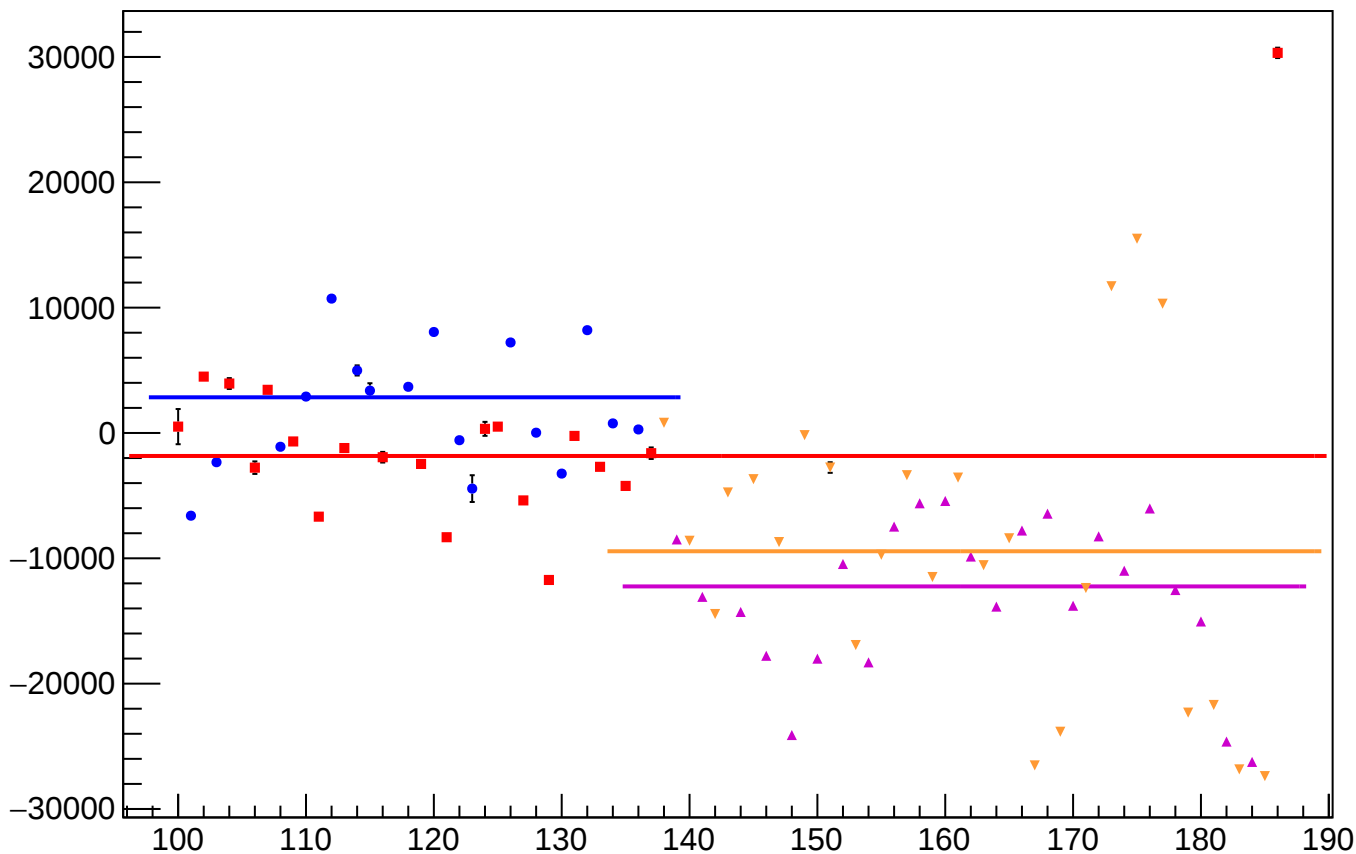
Right: 134.535 +/- 0.027 χ^2/NDF : 1526968.2/36

In: 161.330 +/- 0.024 χ^2/NDF : 2705447.5/39

Out: 159.439 +/- 0.023 χ^2/NDF : 3234241.3/44

All: 160.336 +/- 0.017 χ^2/NDF : 5942852.7/84

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117+/-70.894 χ^2/NDF : 4160.1/16

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: -1834.858+/-64.900 χ^2/NDF : 9352.3/19

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

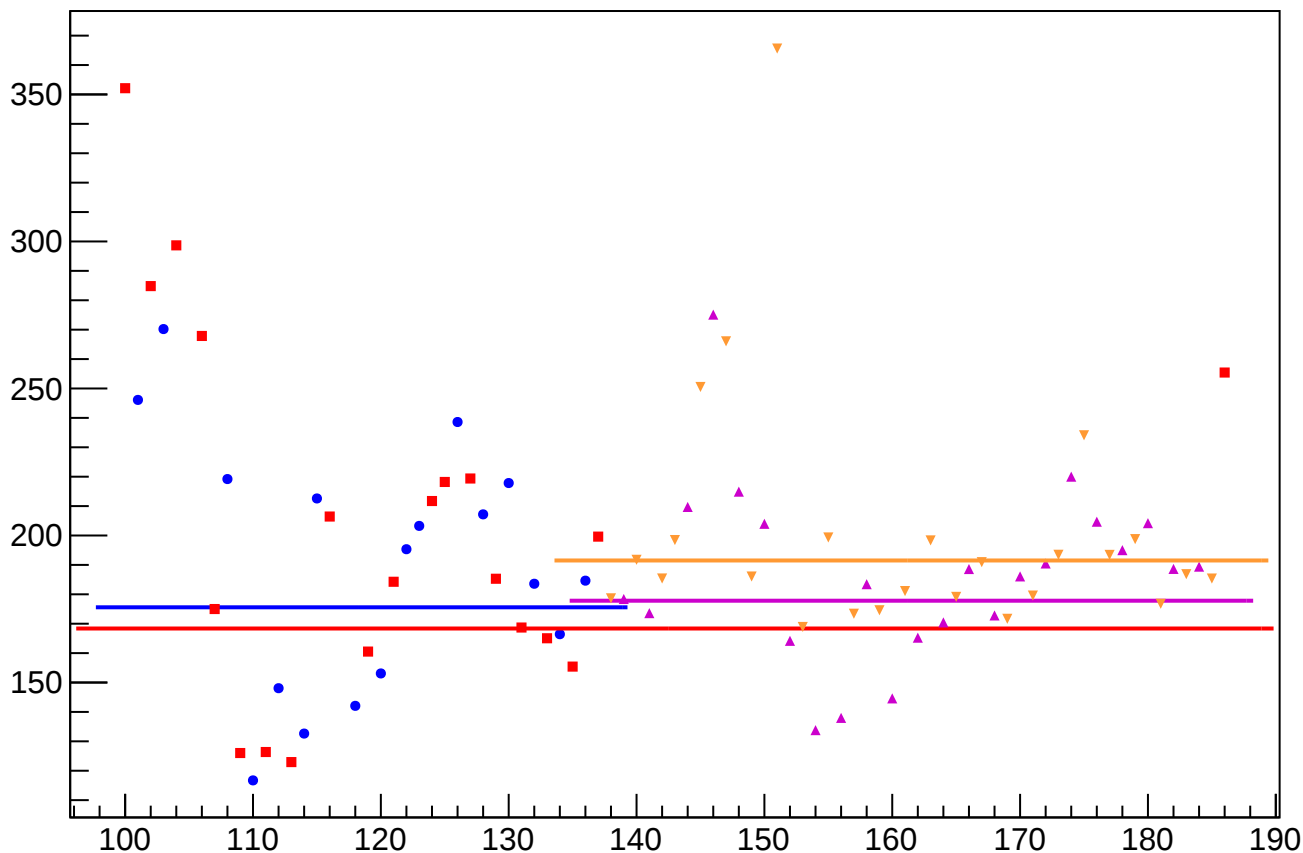
Right: 299.413+/-47.870 χ^2/NDF : 15884.3/36

In: -8054.077+/-37.351 χ^2/NDF : 53499.1/39

Out: -6929.542+/-37.275 χ^2/NDF : 80768.4/44

All: -7490.667+/-26.384 χ^2/NDF : 134721.7/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582 $\pm$ 0.050 χ^2/NDF : 687852.4/16

Left Out: 191.507 $\pm$ 0.032 χ^2/NDF : 727251.6/24

Right Out: 168.369 $\pm$ 0.046 χ^2/NDF : 1016035.2/19

Left In: 177.821 $\pm$ 0.031 χ^2/NDF : 862494.4/22

Left: 184.421 $\pm$ 0.022 χ^2/NDF : 1683284.8/47

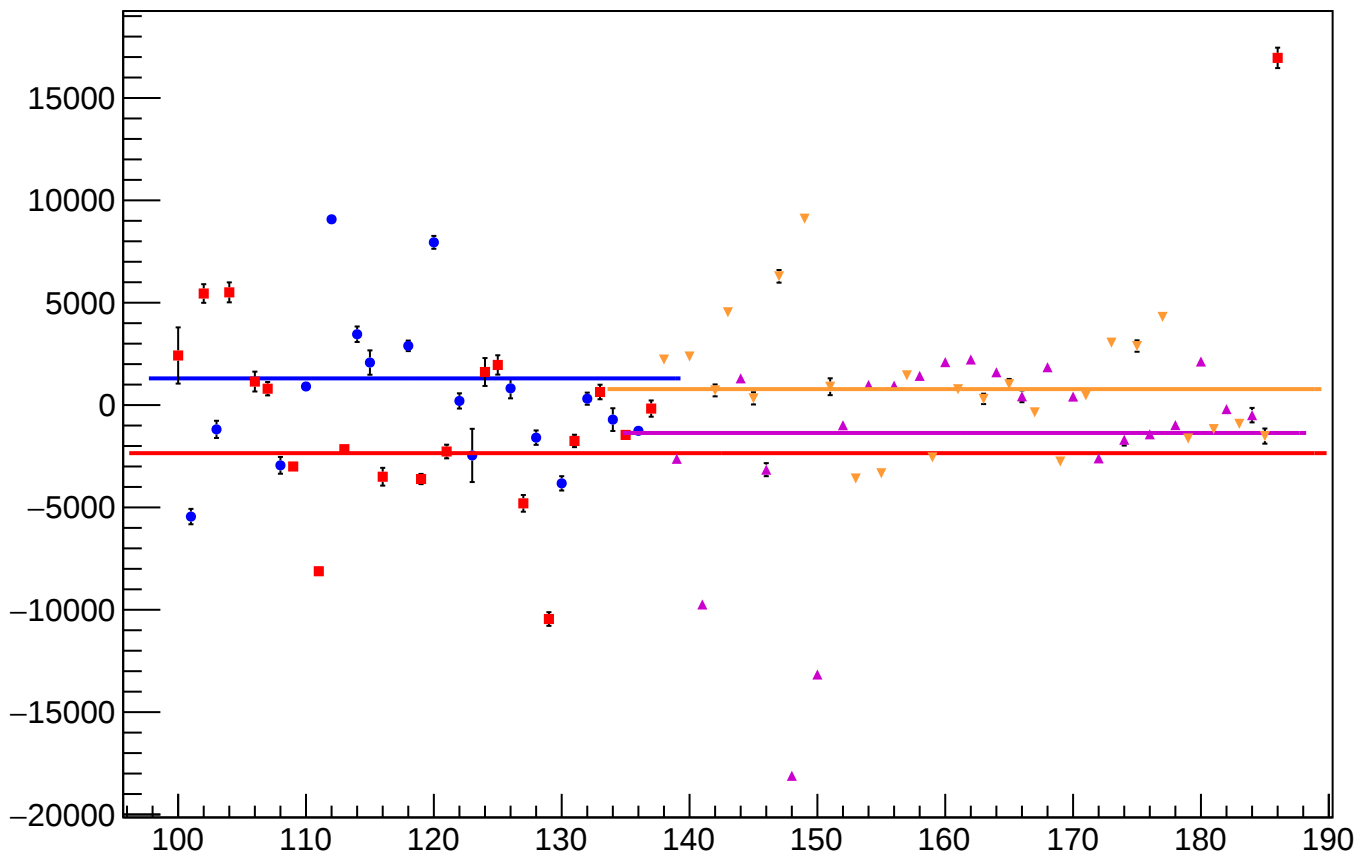
Right: 171.658 $\pm$ 0.034 χ^2/NDF : 1715151.3/36

In: 177.200 $\pm$ 0.026 χ^2/NDF : 1551788.7/39

Out: 183.874 $\pm$ 0.026 χ^2/NDF : 1913637.8/44

All: 180.544 $\pm$ 0.019 χ^2/NDF : 3497423.6/84

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 ± 77.323 $\chi^2/\text{NDF}: 2649.9/16$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -2348.875 ± 69.332 $\chi^2/\text{NDF}: 4025.5/19$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

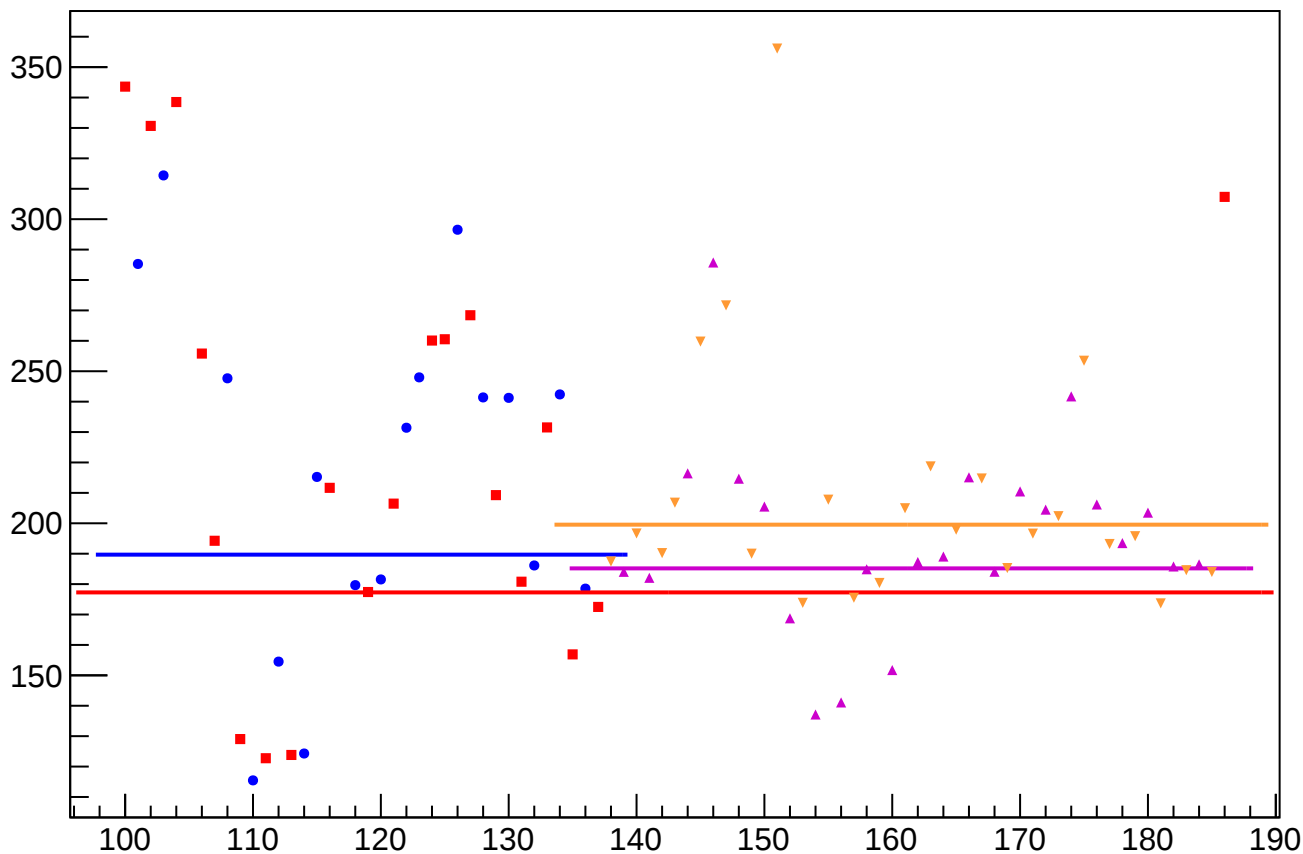
Right: -721.365 ± 51.620 $\chi^2/\text{NDF}: 7911.8/36$

In: -670.480 ± 39.410 $\chi^2/\text{NDF}: 15162.7/39$

Out: -218.276 ± 39.162 $\chi^2/\text{NDF}: 9673.1/44$

All: -442.947 ± 27.779 $\chi^2/\text{NDF}: 24902.0/84$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 ± 0.055 $\chi^2/\text{NDF}: 977199.2/16$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 177.270 ± 0.049 $\chi^2/\text{NDF}: 1429809.6/19$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

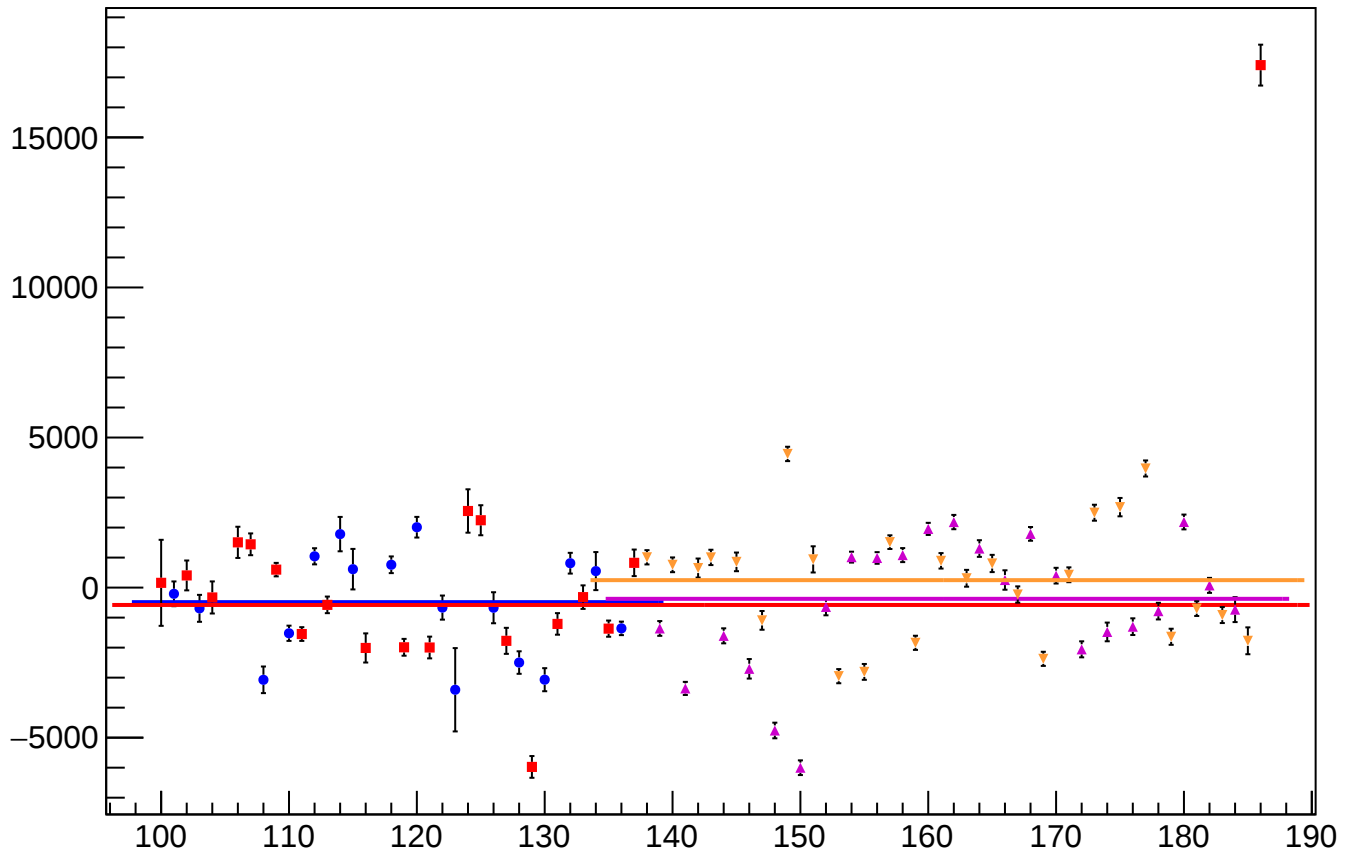
Right: 182.804 ± 0.037 $\chi^2/\text{NDF}: 2435599.6/36$

In: 186.344 ± 0.028 $\chi^2/\text{NDF}: 1865002.0/39$

Out: 192.439 ± 0.028 $\chi^2/\text{NDF}: 2299769.9/44$

All: 189.411 ± 0.020 $\chi^2/\text{NDF}: 4188845.3/84$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -485.036 ± 88.788 χ^2/NDF : 285.3/16

Left Out: 247.844 ± 53.555 χ^2/NDF : 1355.1/24

Right Out: -578.583 ± 81.640 χ^2/NDF : 1145.3/19

Left In: -374.122 ± 52.049 χ^2/NDF : 1801.0/22

Left: -72.006 ± 37.325 χ^2/NDF : 3225.5/47

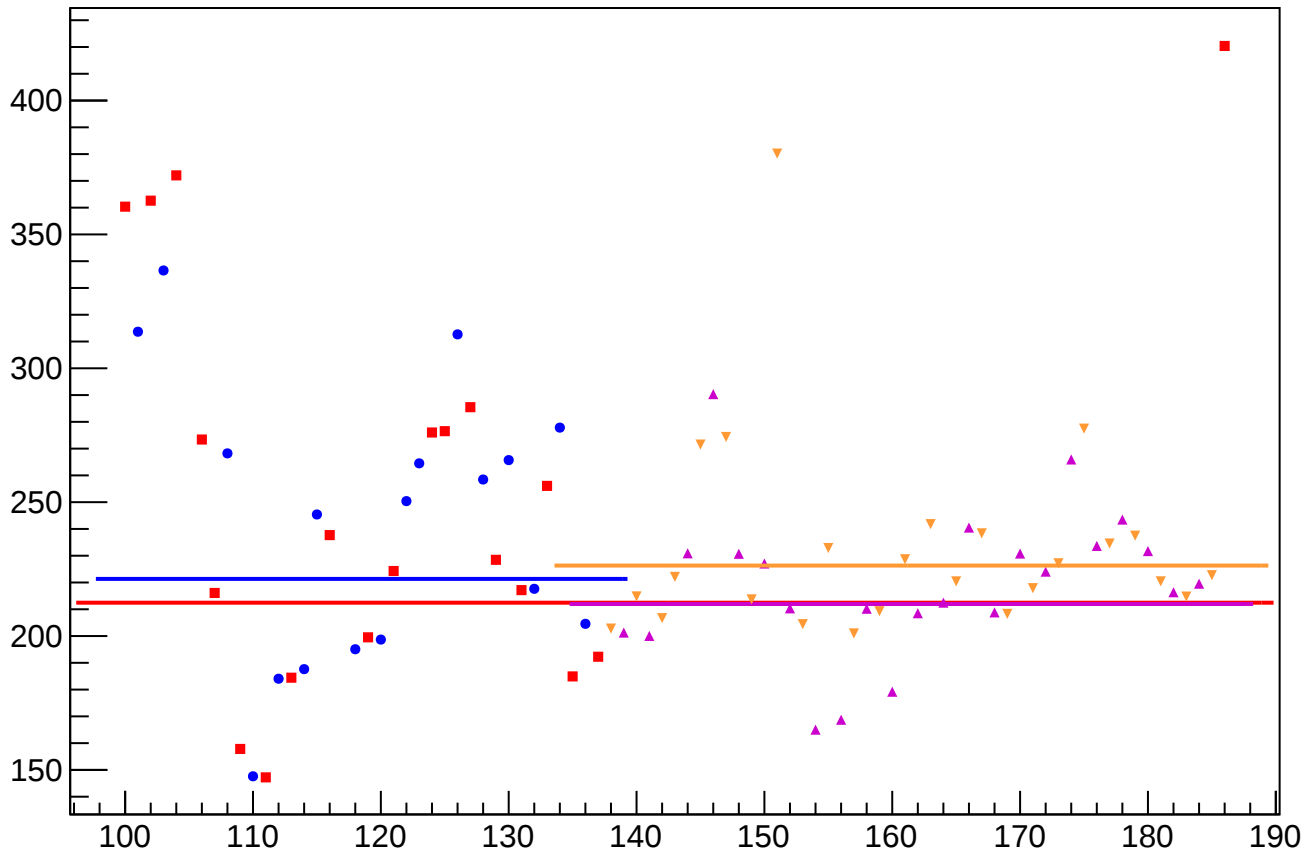
Right: -535.726 ± 60.097 χ^2/NDF : 1431.2/36

In: -402.489 ± 44.902 χ^2/NDF : 2087.5/39

Out: -0.792 ± 44.780 χ^2/NDF : 2572.1/44

All: -201.091 ± 31.707 χ^2/NDF : 4699.7/84

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 $\pm$ 0.063 χ^2 /NDF: 645507.4/16

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 212.457 $\pm$ 0.058 χ^2 /NDF: 1068273.5/19

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

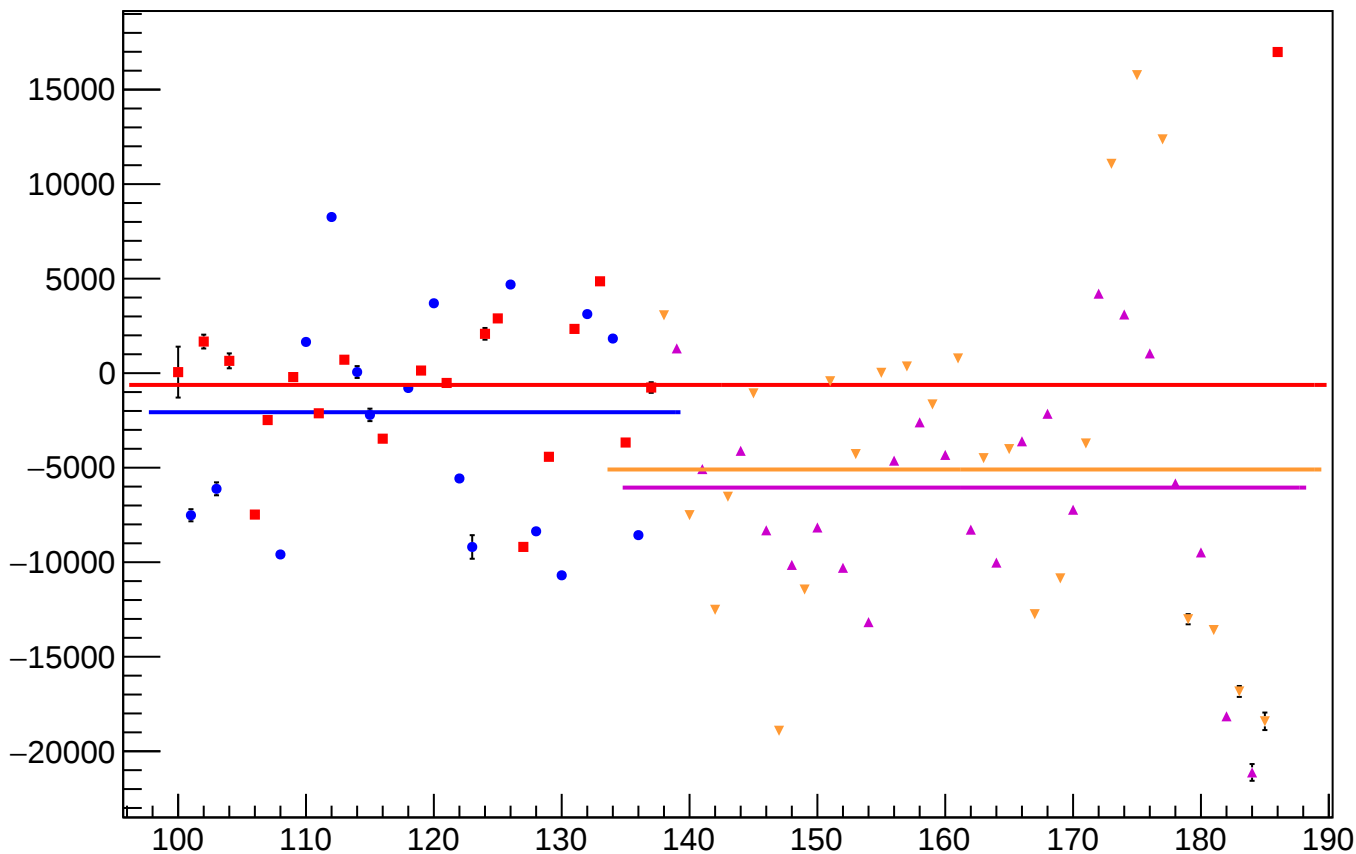
Right: 216.526 $\pm$ 0.042 χ^2 /NDF: 1724626.6/36

In: 214.366 $\pm$ 0.032 χ^2 /NDF: 1246424.7/39

Out: 222.150 $\pm$ 0.032 χ^2 /NDF: 1629645.8/44

All: 218.269 $\pm$ 0.022 χ^2 /NDF: 2906204.8/84

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 $\pm$ 47.407 χ^2 /NDF: 16535.7/16

Left Out: -5095.305 $\pm$ 33.703 χ^2 /NDF: 54395.4/24

Right Out: -622.036 $\pm$ 44.140 χ^2 /NDF: 12024.8/19

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

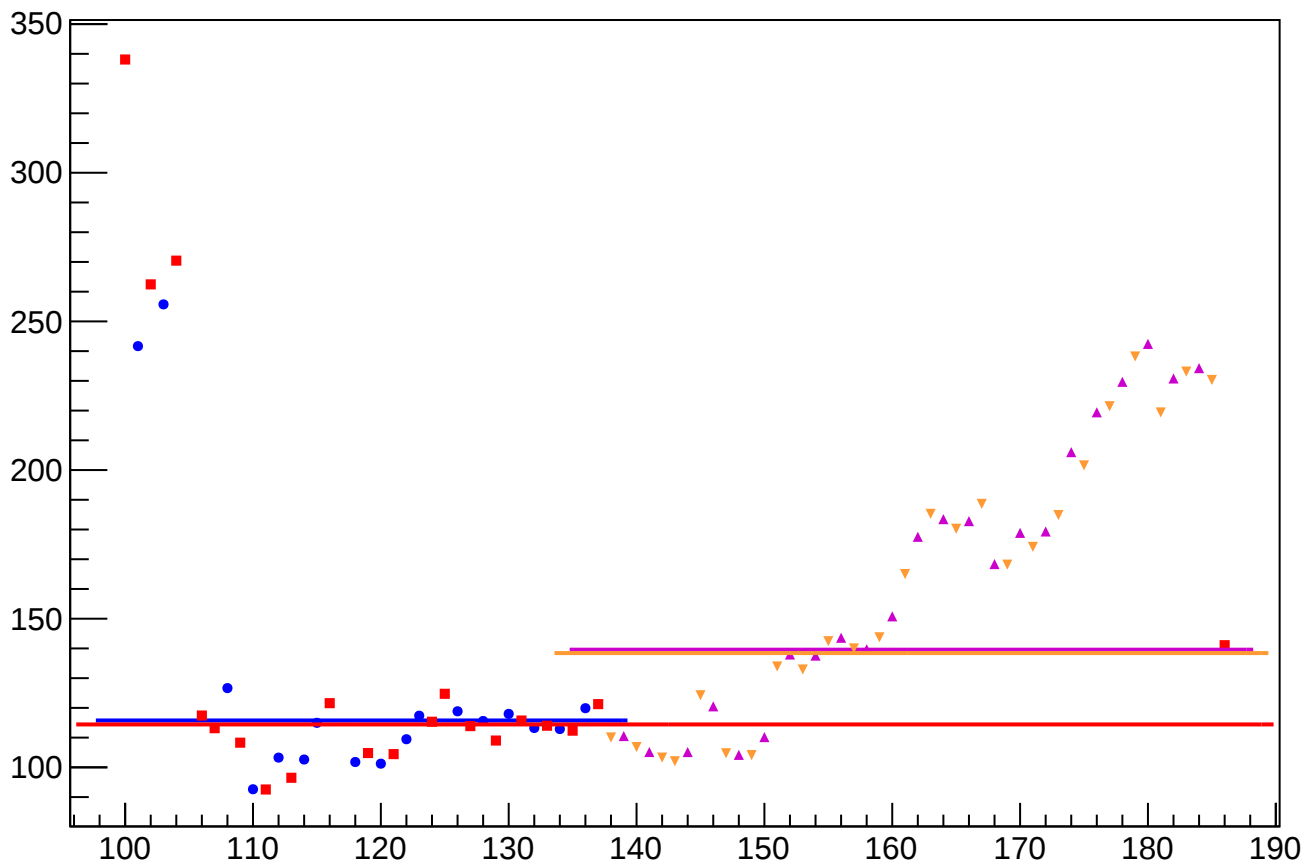
Right: -1292.340 $\pm$ 32.305 χ^2 /NDF: 29057.1/36

In: -4646.764 $\pm$ 28.156 χ^2 /NDF: 38706.4/39

Out: -3447.831 $\pm$ 26.788 χ^2 /NDF: 72907.9/44

All: -4017.444 $\pm$ 19.408 χ^2 /NDF: 112566.0/8

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768 $\pm$ 0.034 χ^2 /NDF: 743657.8/16

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 114.434 $\pm$ 0.031 χ^2 /NDF: 823324.5/19

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

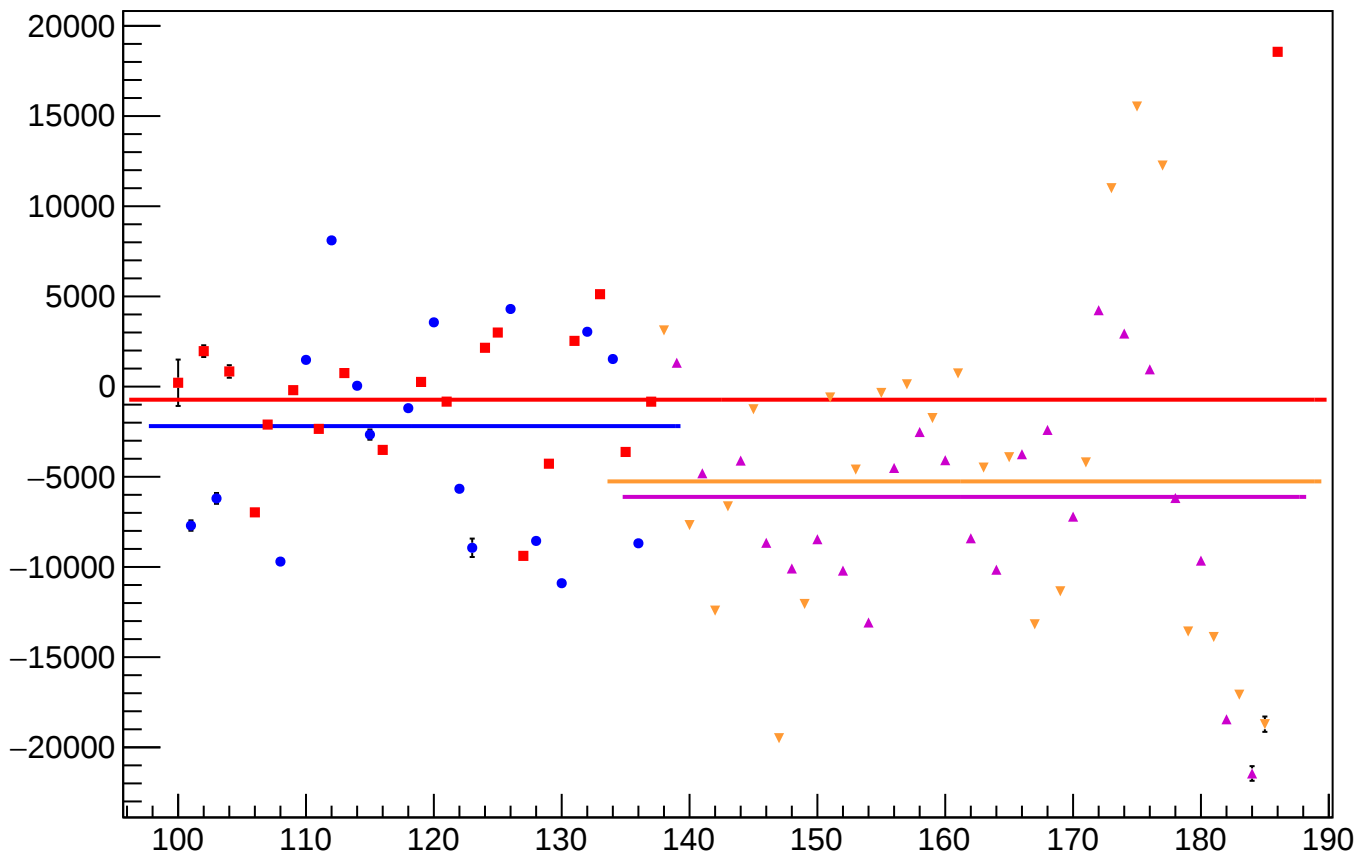
Right: 115.053 $\pm$ 0.023 χ^2 /NDF: 1567830.0/36

In: 131.179 $\pm$ 0.020 χ^2 /NDF: 3483854.6/39

Out: 129.596 $\pm$ 0.019 χ^2 /NDF: 3746309.7/44

All: 130.348 $\pm$ 0.014 χ^2 /NDF: 7233480.6/84

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2190.242 $\pm$ 40.008 χ^2 /NDF: 22811.0/16

Left Out: -5255.652 $\pm$ 30.622 χ^2 /NDF: 64324.6/24

Right Out: -726.093 $\pm$ 37.520 χ^2 /NDF: 15790.3/19

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

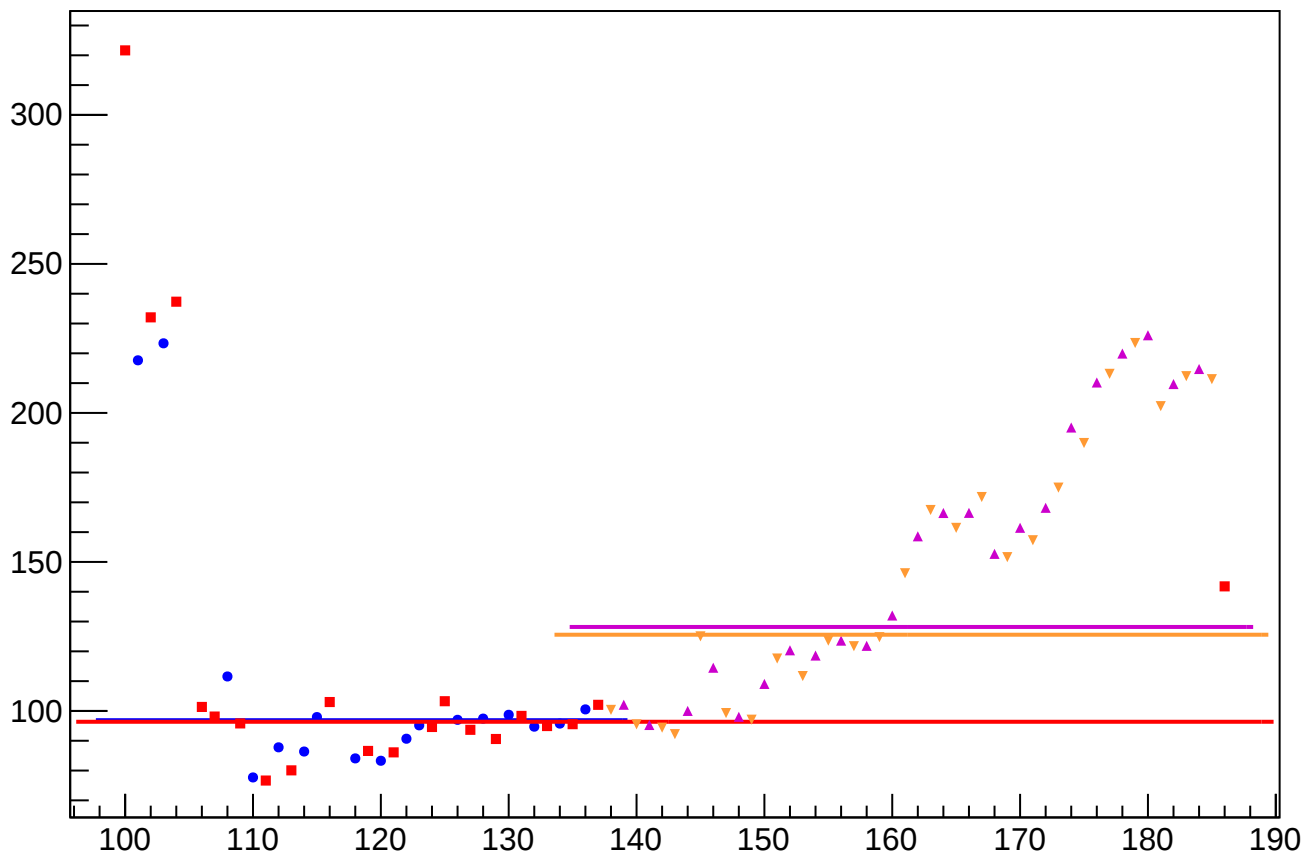
Right: -1411.229 $\pm$ 27.368 χ^2 /NDF: 39313.8/36

In: -4576.389 $\pm$ 25.050 χ^2 /NDF: 49922.4/39

Out: -3444.768 $\pm$ 23.724 χ^2 /NDF: 88862.3/44

All: -3979.842 $\pm$ 17.225 χ^2 /NDF: 139860.6/8

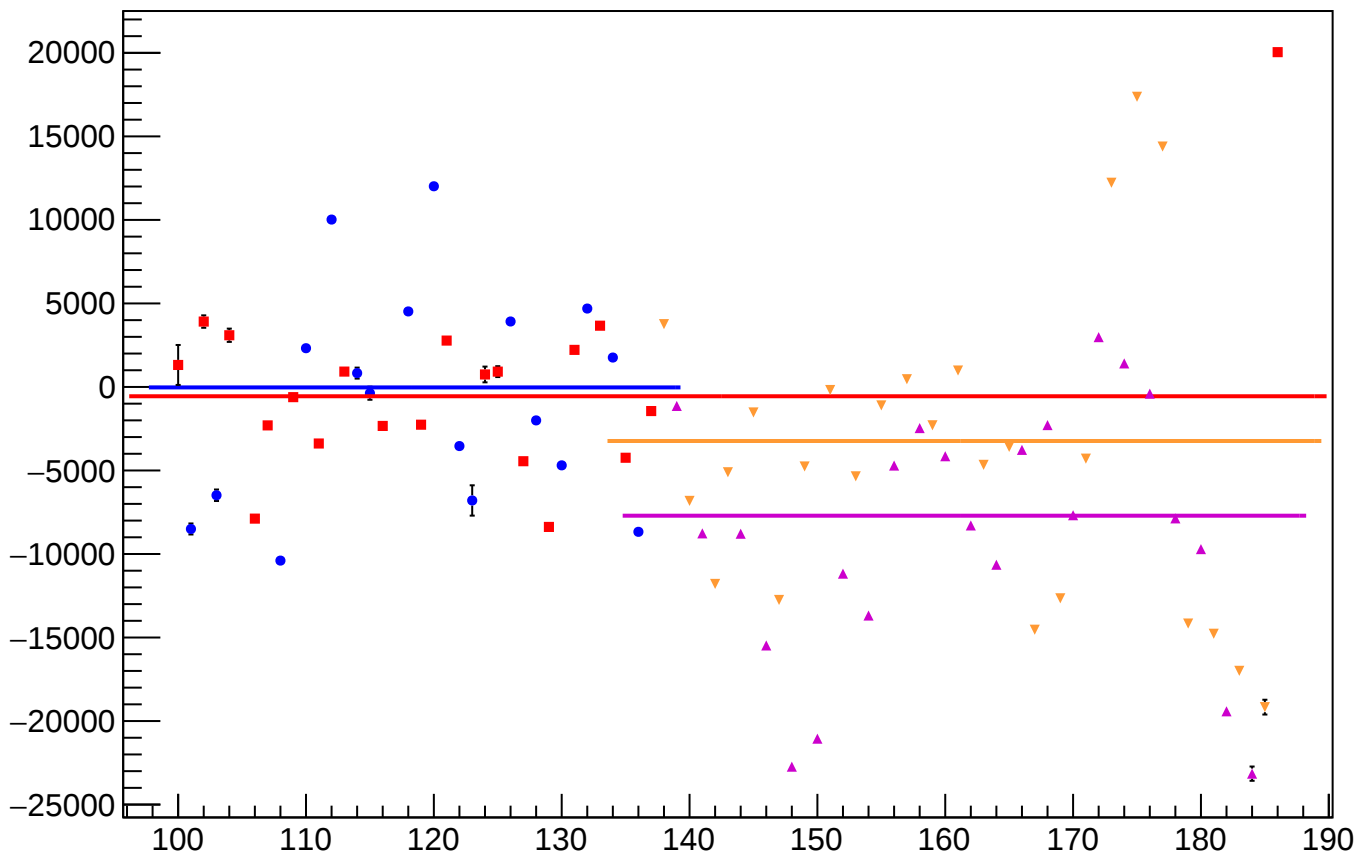
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.898+/-0.028 χ^2/NDF : 817255.1/16
 Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24
 Right Out: 96.369+/-0.027 χ^2/NDF : 938449.8/19
 Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47
 Right: 96.617+/-0.019 χ^2/NDF : 1755891.2/36
 In: 115.919+/-0.018 χ^2/NDF : 3893775.5/39
 Out: 113.900+/-0.017 χ^2/NDF : 4261662.8/44
 All: 114.855+/-0.012 χ^2/NDF : 8162290.5/84

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -27.457 ± 54.732 $\chi^2/\text{NDF}: 16364.6/16$

Left Out: -3234.922 ± 40.583 $\chi^2/\text{NDF}: 36739.9/24$

Right Out: -556.669 ± 51.372 $\chi^2/\text{NDF}: 9985.5/19$

Left In: -7707.068 ± 42.990 $\chi^2/\text{NDF}: 21268.3/22$

Left: -5342.284 ± 29.511 $\chi^2/\text{NDF}: 63730.6/47$

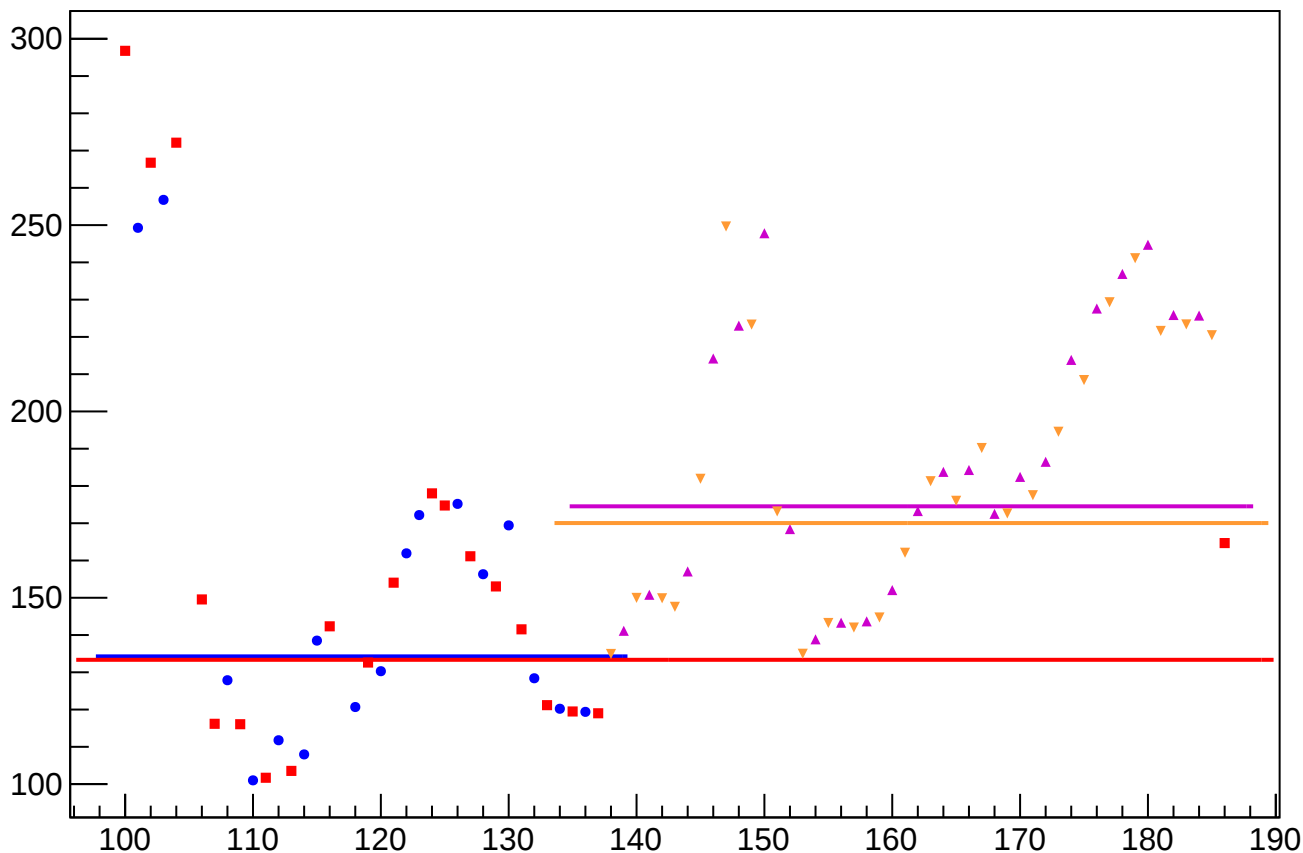
Right: -308.806 ± 37.457 $\chi^2/\text{NDF}: 26399.8/36$

In: -4776.905 ± 33.808 $\chi^2/\text{NDF}: 49808.7/39$

Out: -2205.772 ± 31.845 $\chi^2/\text{NDF}: 48399.0/44$

All: -3414.526 ± 23.181 $\chi^2/\text{NDF}: 101272.4/8$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.270 $\pm$ 0.039 χ^2 /NDF: 787098.5/16

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 133.351 $\pm$ 0.036 χ^2 /NDF: 893413.5/19

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

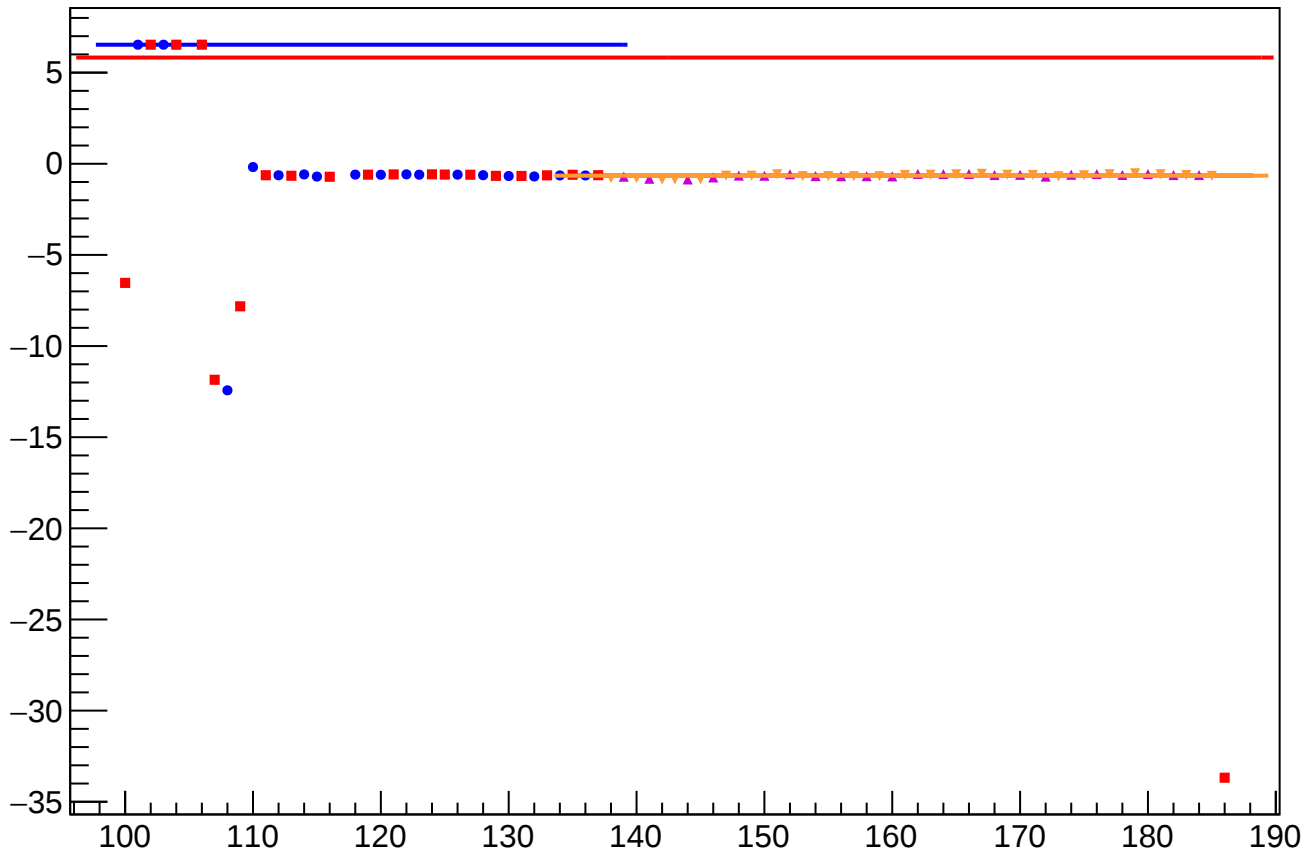
Right: 133.781 $\pm$ 0.026 χ^2 /NDF: 1680812.3/36

In: 159.175 $\pm$ 0.024 χ^2 /NDF:2666730.4/39

Out: 155.948 $\pm$ 0.023 χ^2 /NDF:2762753.9/44

All: 157.465 $\pm$ 0.016 χ^2 /NDF: 5439139.4/84

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127565119308.7/16

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947372602930.4/19

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

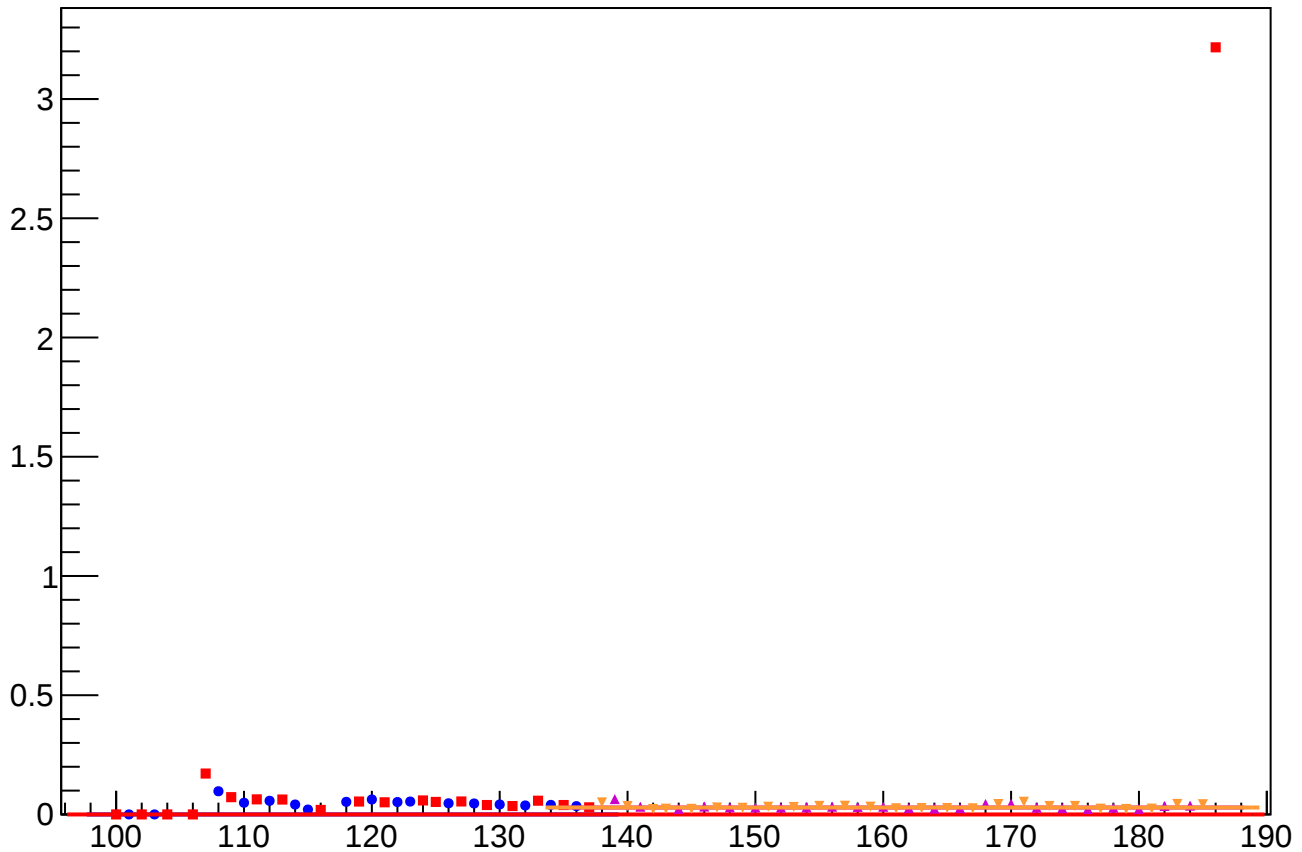
Right: 6.155+/-0.000 χ^2/NDF : 776078105996122.2/47

In: 6.530+/-0.000 χ^2/NDF : 952912537188.0/39

Out: 5.826+/-0.000 χ^2/NDF : 756656401277700.2/47

All: 6.153+/-0.000 χ^2/NDF : 77760147580595

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9008104.3/16

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 10059889.5/19

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

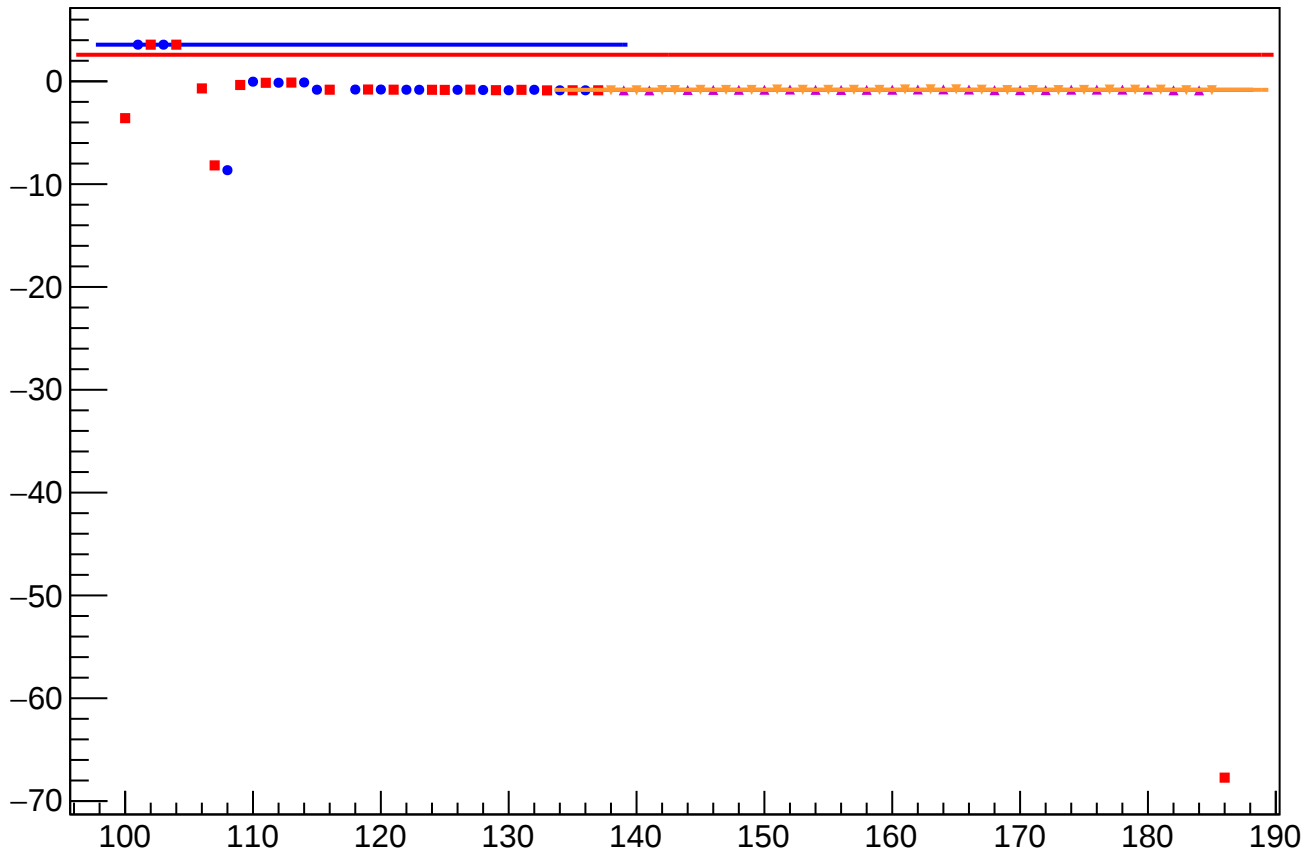
Right: 0.000+/-0.000 χ^2/NDF : 19068243.7/36

In: 0.000+/-0.000 χ^2/NDF :36969810.2/39

Out: 0.000+/-0.000 χ^2/NDF :39935589.2/44

All: 0.000+/-0.000 χ^2/NDF : 76905814.9/84

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 485019512048.0/16

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253504647368430.8/19

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

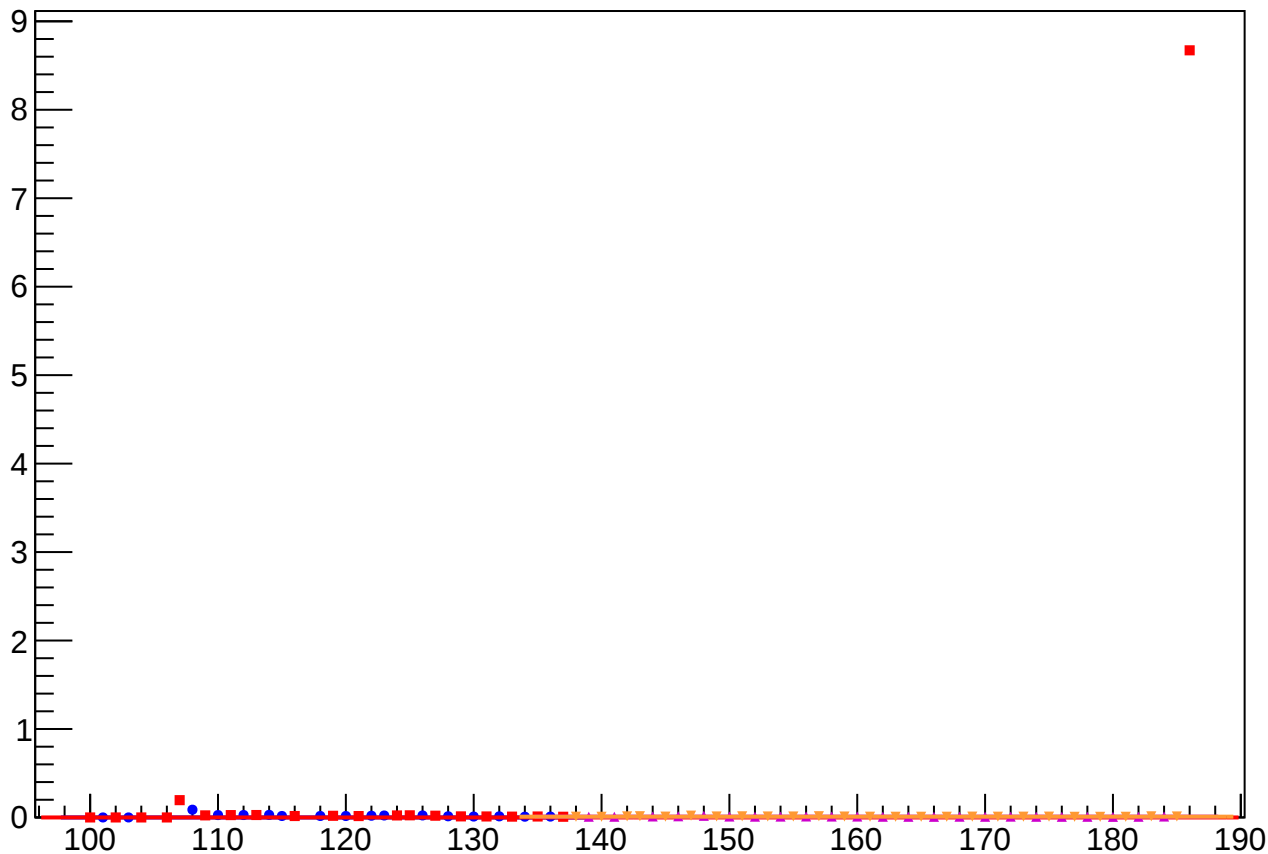
Right: 3.040+/-0.000 χ^2/NDF : 1382260855196194.5

In: 3.560+/-0.000 χ^2/NDF : 4130772938686.2/39

Out: 2.581+/-0.000 χ^2/NDF : 1255726979964484.8

All: 3.038+/-0.000 χ^2/NDF : 13879473308407

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9814021.8/16

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 10558075.3/19

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

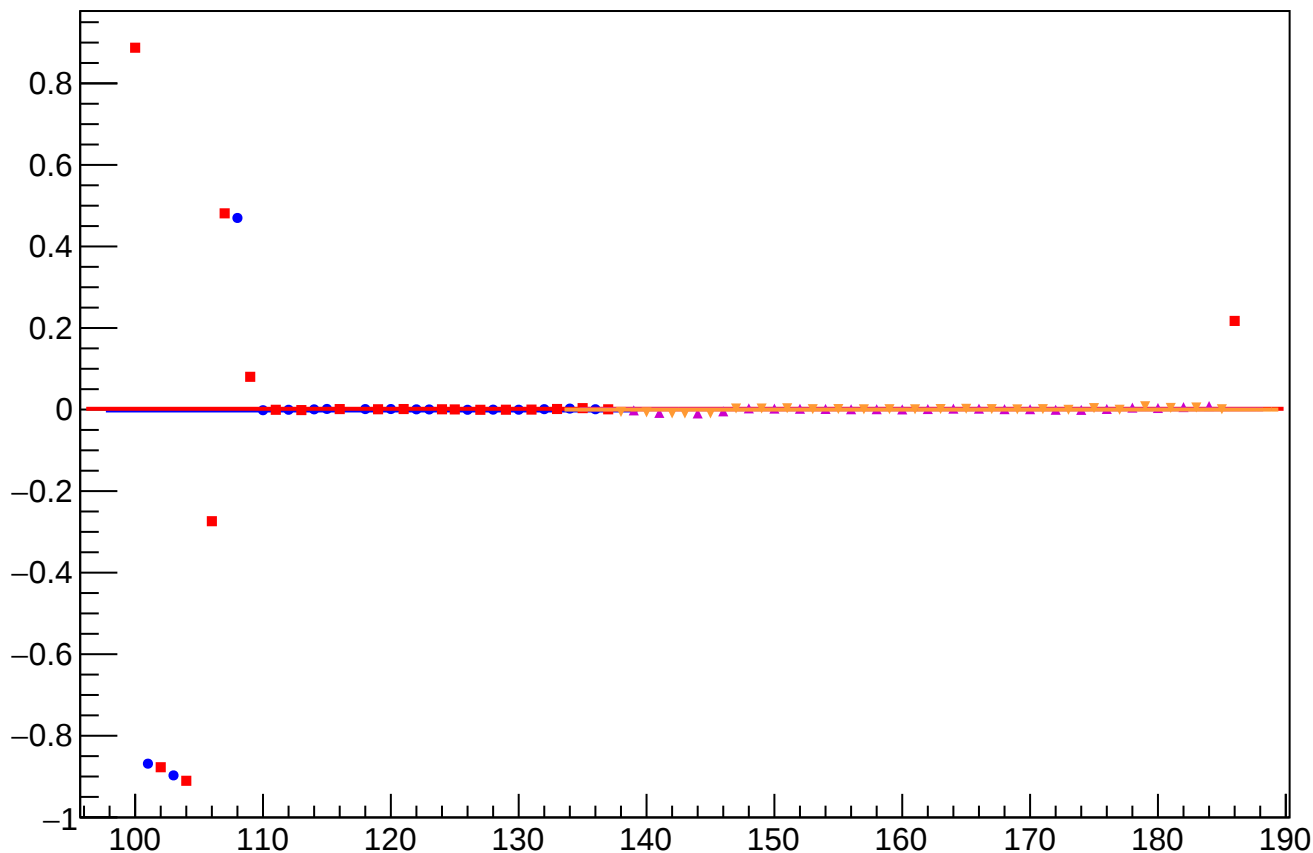
Right: 0.000+/-0.000 χ^2/NDF : 20372378.2/36

In: 0.000+/-0.000 χ^2/NDF :39350176.7/39

Out: 0.000+/-0.000 χ^2/NDF :41976790.3/44

All: 0.000+/-0.000 χ^2/NDF : 81327721.5/84

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795455603.3/16

Left Out: -0.000+/-0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3041344078.2/19

Left In: 0.001+/-0.000 χ^2/NDF : 101439617.3/22

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

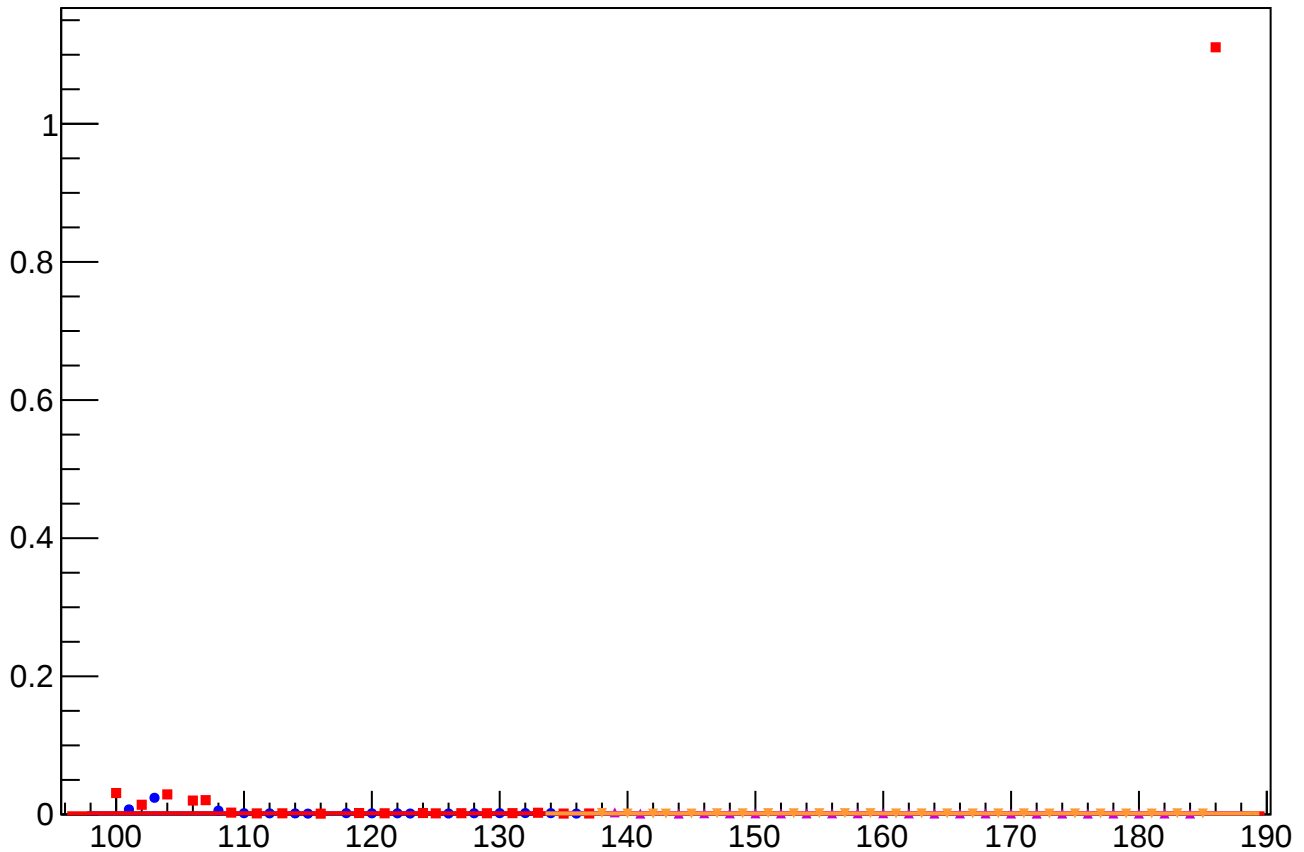
Right: -0.000+/-0.000 χ^2/NDF : 12850566798.8/36

In: -0.000+/-0.000 χ^2/NDF : 9907915071.2/39

Out: 0.000+/-0.000 χ^2/NDF : 3197553358.7/44

All: 0.000+/-0.000 χ^2/NDF : 13105805403.8/80

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1922148.8/16

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3727951.7/19

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

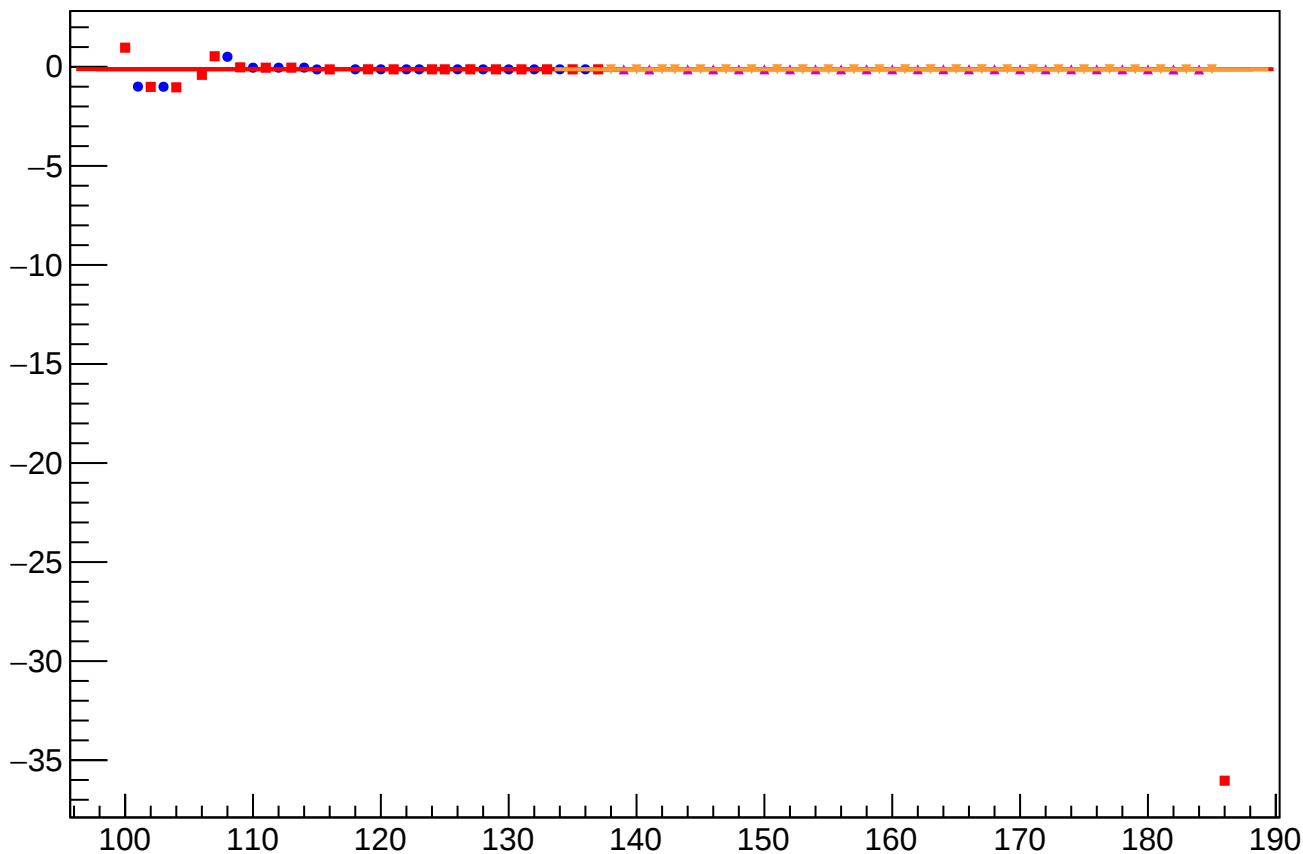
Right: 0.002+/-0.000 χ^2/NDF : 5658516.7/36

In: 0.002+/-0.000 χ^2/NDF : 2598097.8/39

Out: 0.002+/-0.000 χ^2/NDF : 4403446.4/44

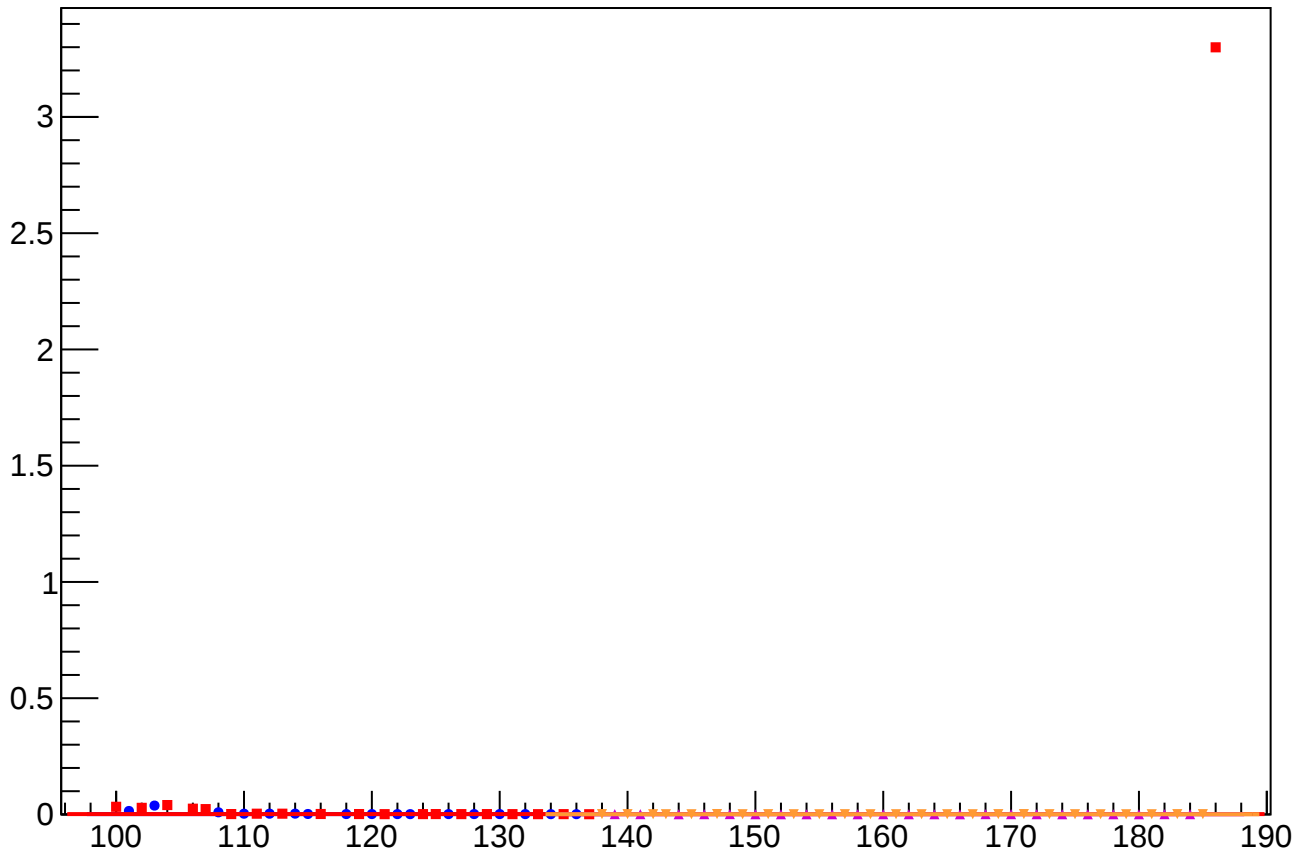
All: 0.002+/-0.000 χ^2/NDF : 7002456.2/84

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000	χ^2/NDF : 3932772427.7/16	Left: -0.121+/-0.000	χ^2/NDF : 110482905.6/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58120109.3/24	Right: -0.118+/-0.000	χ^2/NDF : 6454416949.1/36
Right Out: -0.115+/-0.000	χ^2/NDF : 2498567355.5/19	In: -0.121+/-0.000	χ^2/NDF : 3985449148.7/39
Left In: -0.121+/-0.000	χ^2/NDF : 52113932.9/22	Out: -0.121+/-0.000	χ^2/NDF : 2611911475.0/44
		All: -0.121+/-0.000	χ^2/NDF : 6598314324.9/8

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2898219.2/16

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4245931.0/19

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

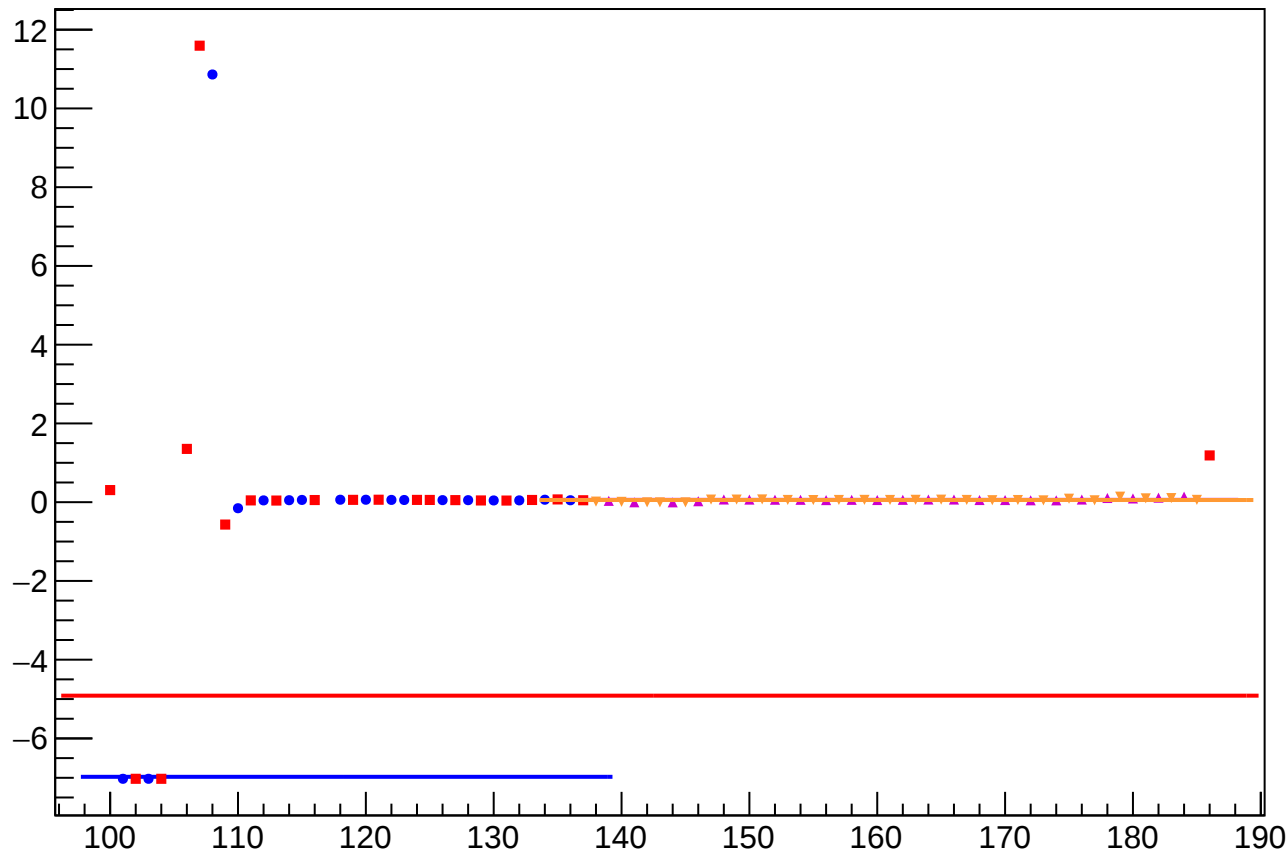
Right: 0.002+/-0.000 χ^2/NDF : 7144286.2/36

In: 0.001+/-0.000 χ^2/NDF :5009064.8/39

Out: 0.001+/-0.000 χ^2/NDF :6752556.2/44

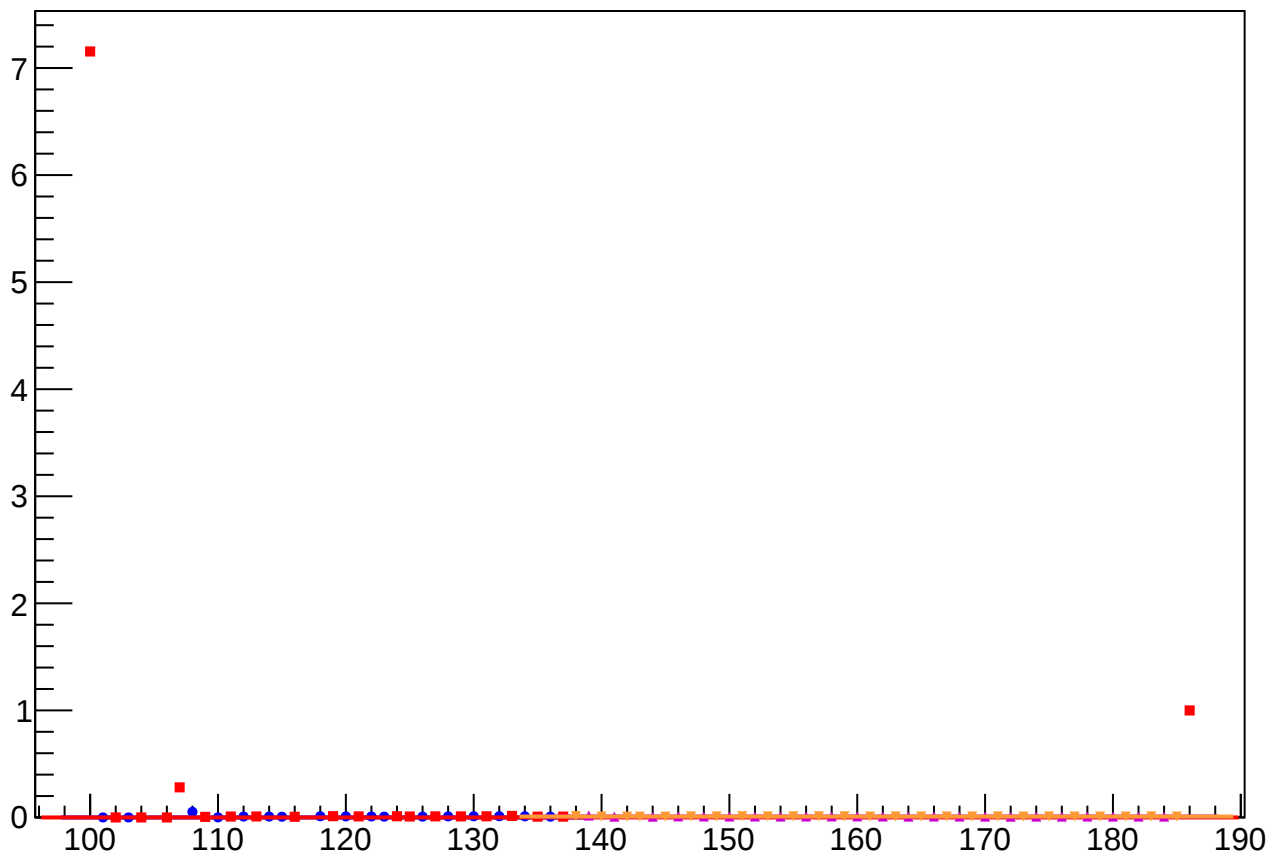
All: 0.001+/-0.000 χ^2/NDF : 11764180.0/84

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797358006083.6/16$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352669559982.0/19$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$
 Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333284309653.4$
 In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17552878453065.5/39$
 Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165234157235.2$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435285785521$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8350428.8/16

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 9482015.0/19

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

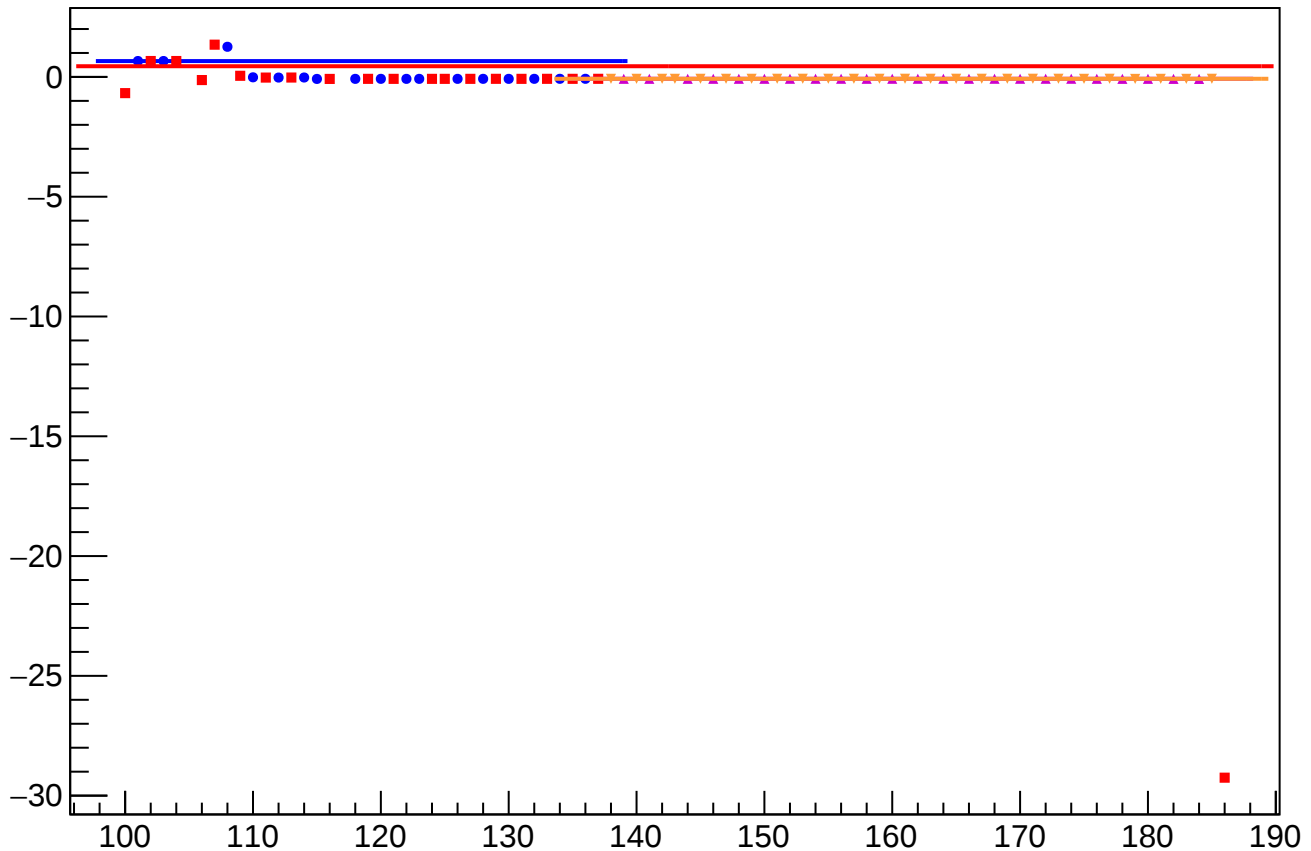
Right: 0.000+/-0.000 χ^2/NDF : 17832792.3/36

In: 0.000+/-0.000 χ^2/NDF :35769405.5/39

Out: 0.000+/-0.000 χ^2/NDF :38427234.7/44

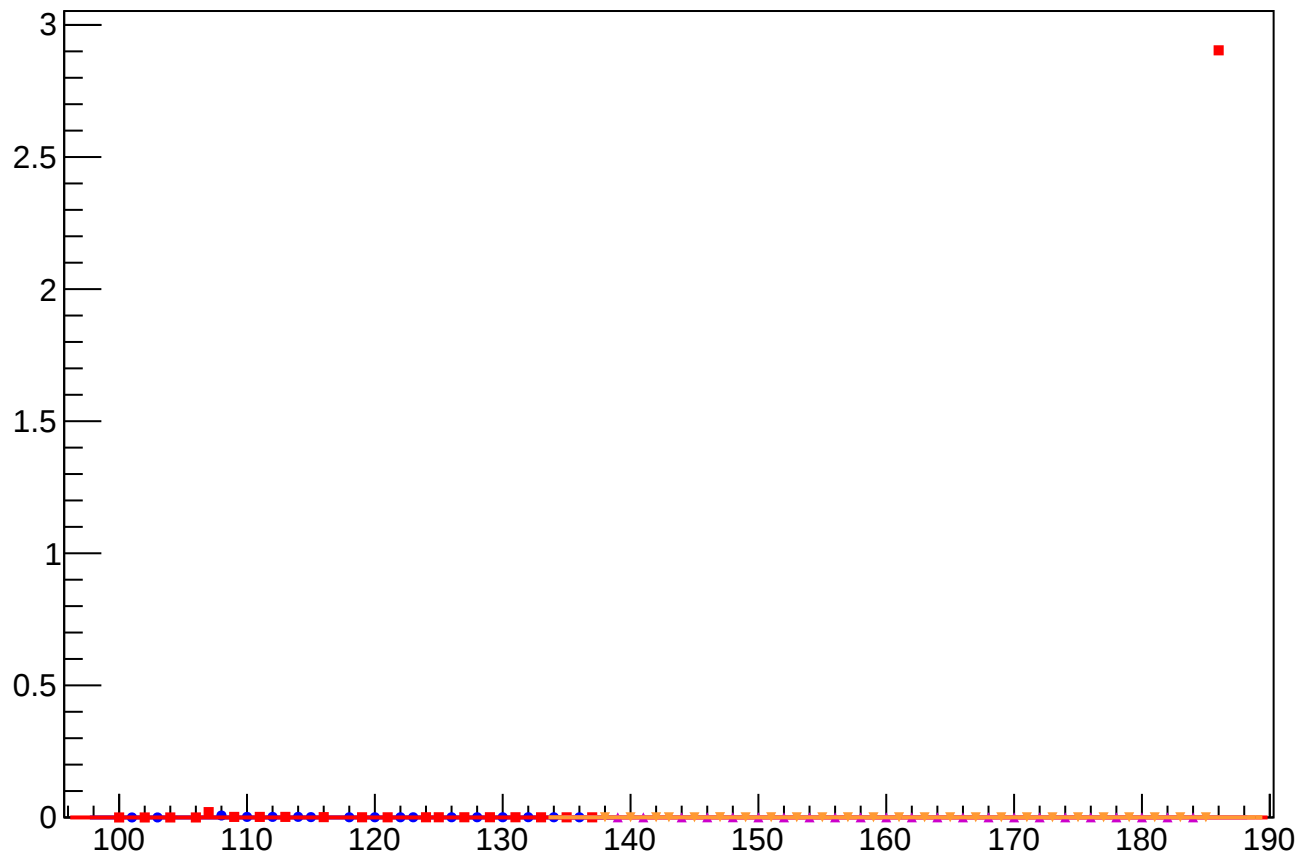
All: 0.000+/-0.000 χ^2/NDF : 74197105.5/84

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5658672217179.3/16	Left: -0.078+/-0.000	χ^2/NDF : 267206251.1/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156404795.7/24	Right: 0.549+/-0.000	χ^2/NDF : 474000420985893.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405428459804597.9/19	In: 0.647+/-0.000	χ^2/NDF : 33699407381732.8/39
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420589578547894.7/4
		All: 0.537+/-0.000	χ^2/NDF : 51584490332147

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9958320.7/16

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 10172950.2/19

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

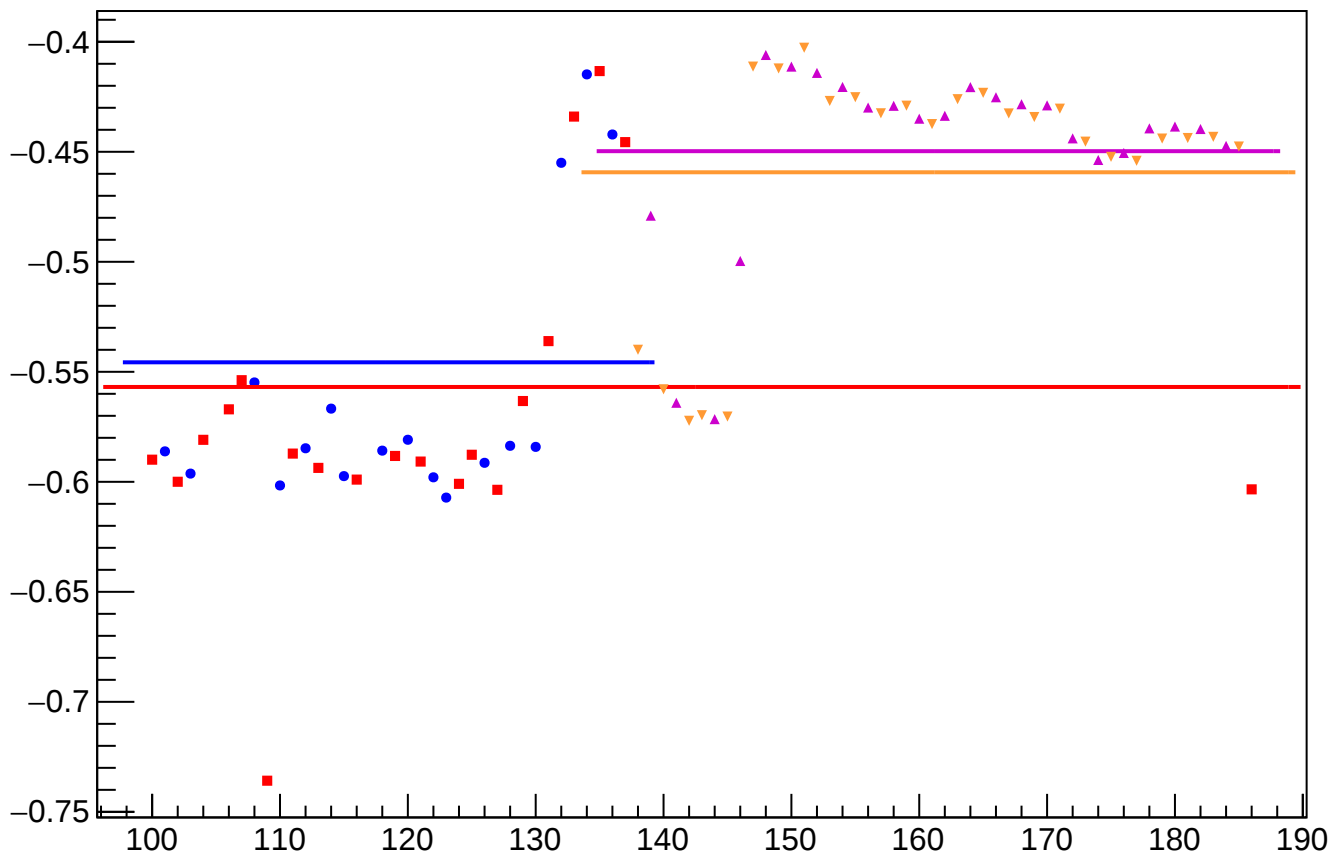
Right: 0.000+/-0.000 χ^2/NDF : 20131286.6/36

In: 0.000+/-0.000 χ^2/NDF : 40691458.2/39

Out: 0.000+/-0.000 χ^2/NDF : 42794977.0/44

All: 0.000+/-0.000 χ^2/NDF : 83486771.0/84

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546 ± 0.000 $\chi^2/\text{NDF}: 46331446.0/16$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 113602161.0/24$

Right Out: -0.557 ± 0.000 $\chi^2/\text{NDF}: 64480750.5/19$

Left In: -0.450 ± 0.000 $\chi^2/\text{NDF}: 76117957.8/22$

Left: -0.455 ± 0.000 $\chi^2/\text{NDF}: 191493218.8/47$

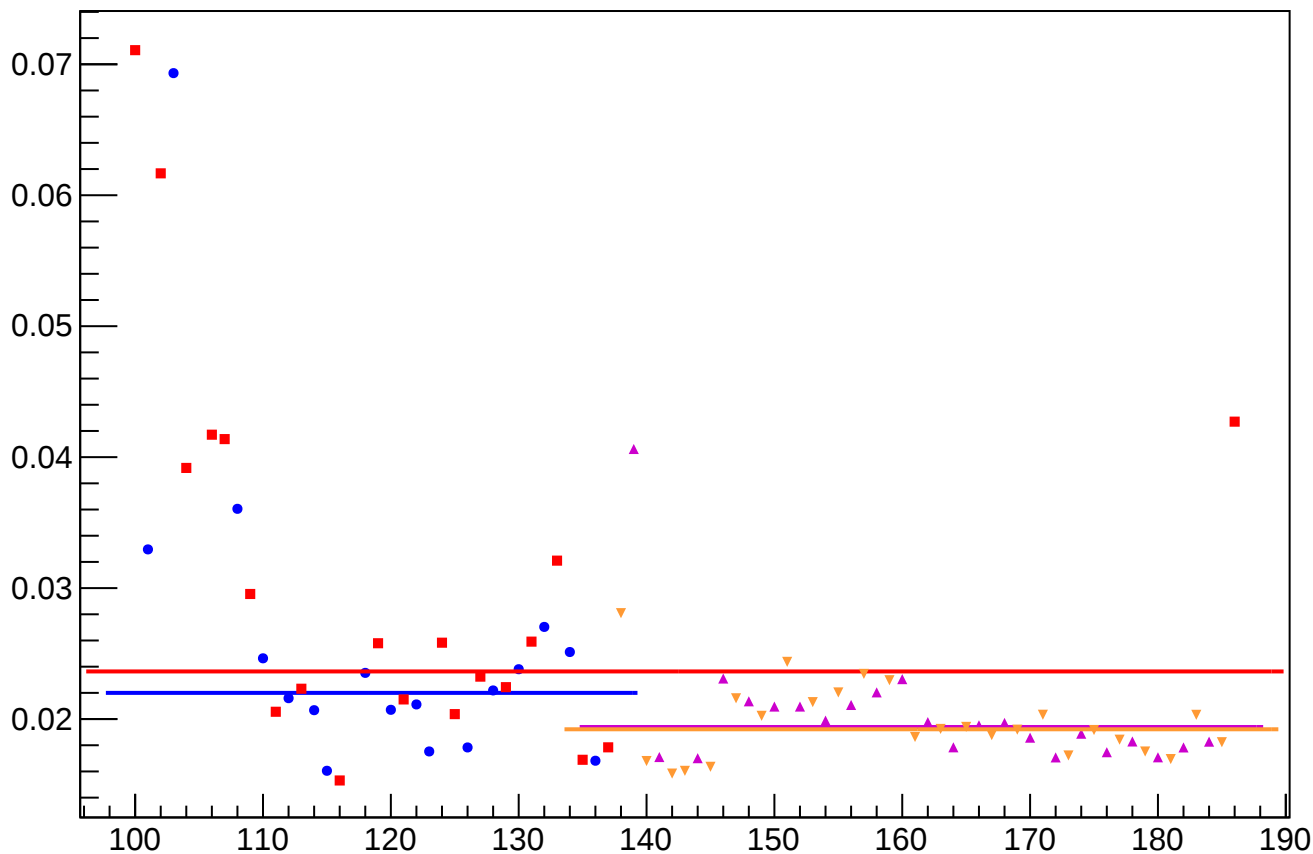
Right: -0.551 ± 0.000 $\chi^2/\text{NDF}: 111457084.8/36$

In: -0.471 ± 0.000 $\chi^2/\text{NDF}: 198006533.2/39$

Out: -0.479 ± 0.000 $\chi^2/\text{NDF}: 254449506.3/44$

All: -0.475 ± 0.000 $\chi^2/\text{NDF}: 453960424.5/84$

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 959677.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.024+/-0.000 χ^2/NDF : 1296968.3/19

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

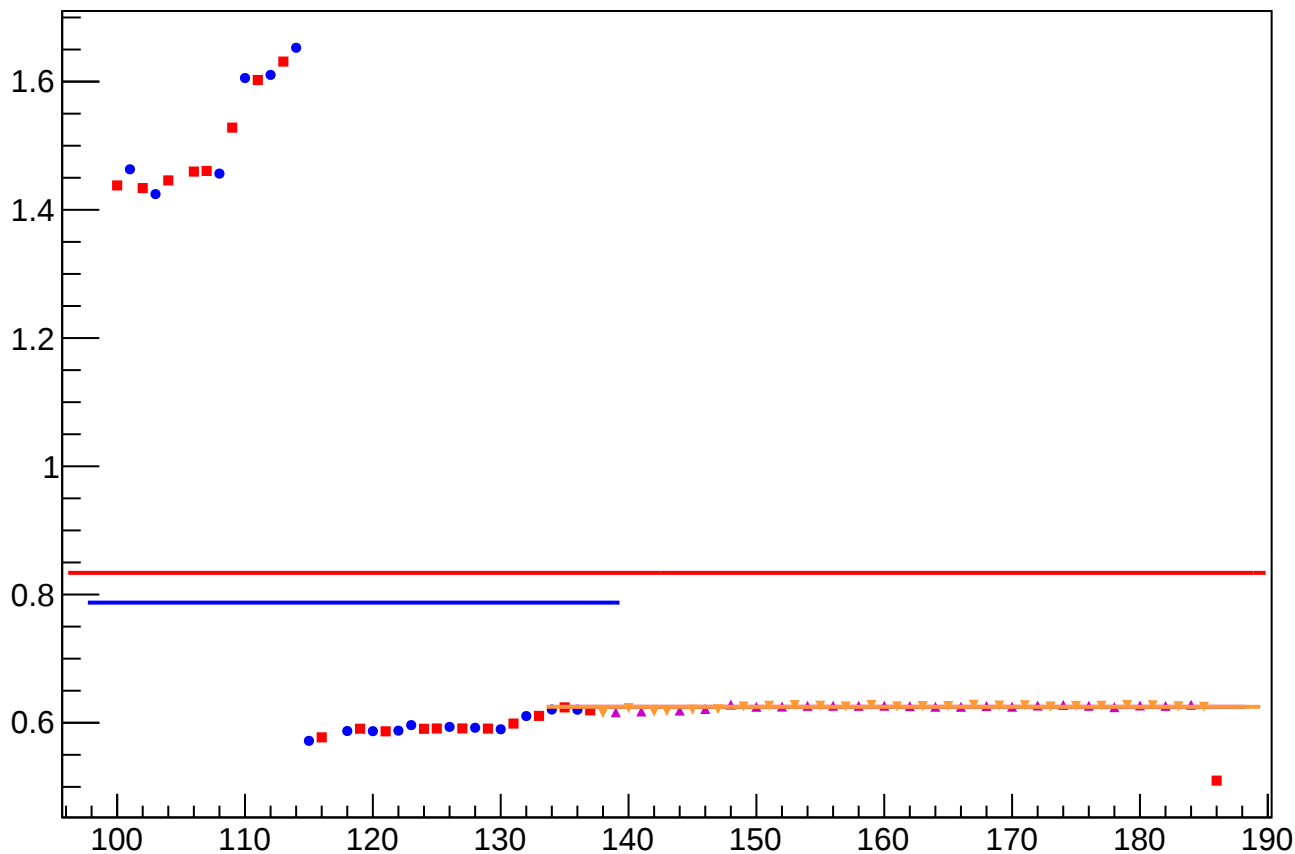
Right: 0.023+/-0.000 χ^2/NDF : 2284176.8/36

In: 0.020+/-0.000 χ^2/NDF : 1697514.5/39

Out: 0.020+/-0.000 χ^2/NDF : 2111656.0/44

All: 0.020+/-0.000 χ^2/NDF : 3810011.3/84

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.787±0.000 χ^2/NDF : 3581416919.1/16

Left Out: 0.625±0.000 χ^2/NDF : 1445169.1/24

Right Out: 0.834±0.000 χ^2/NDF : 4152142483.9/19

Left In: 0.625±0.000 χ^2/NDF : 1143954.1/22

Left: 0.625±0.000 χ^2/NDF : 2589565.7/47

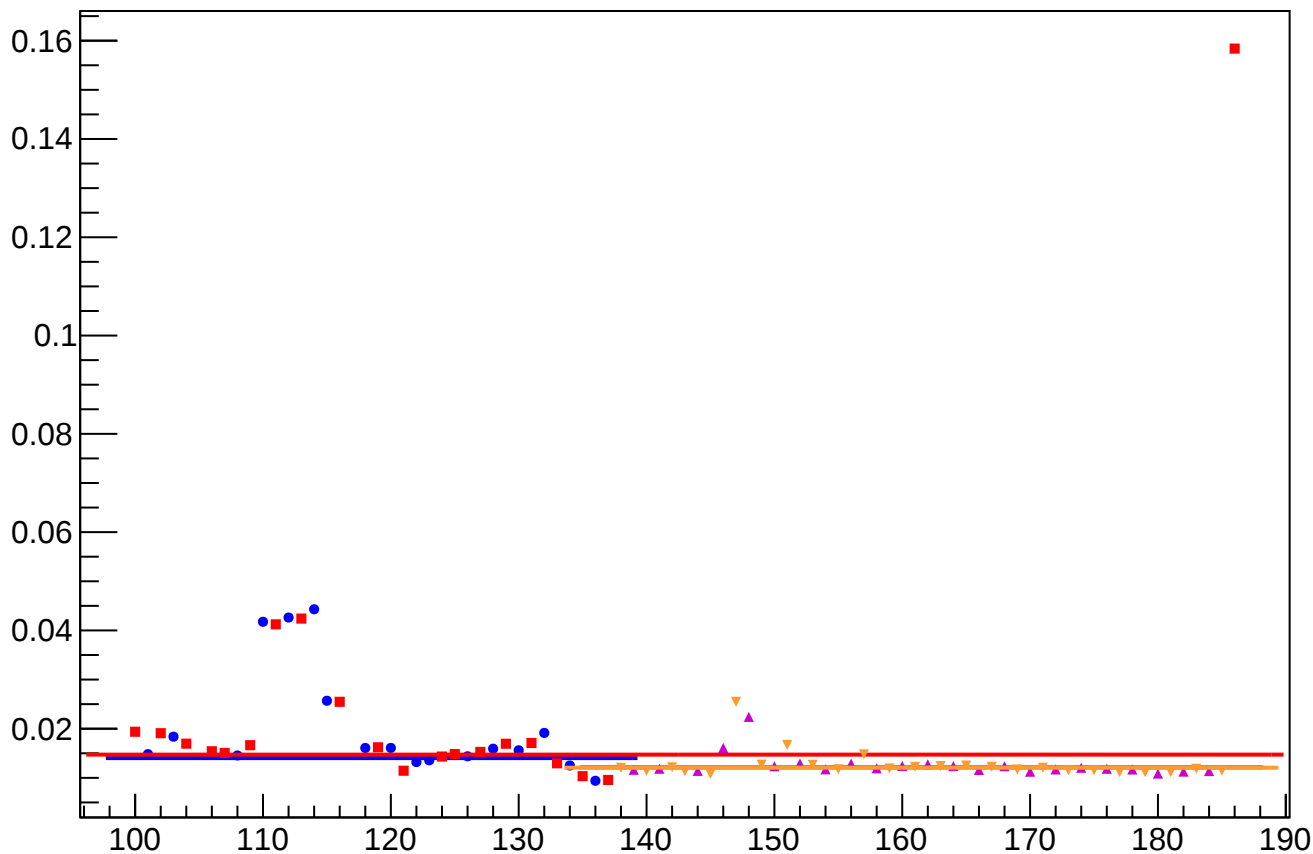
Right: 0.810±0.000 χ^2/NDF : 7764107165.8/36

In: 0.658±0.000 χ^2/NDF : 4189391063.9/39

Out: 0.664±0.000 χ^2/NDF : 5143654218.8/44

All: 0.661±0.000 χ^2/NDF : 9335932661.7/84

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1399935.4/16

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1847994.5/19

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

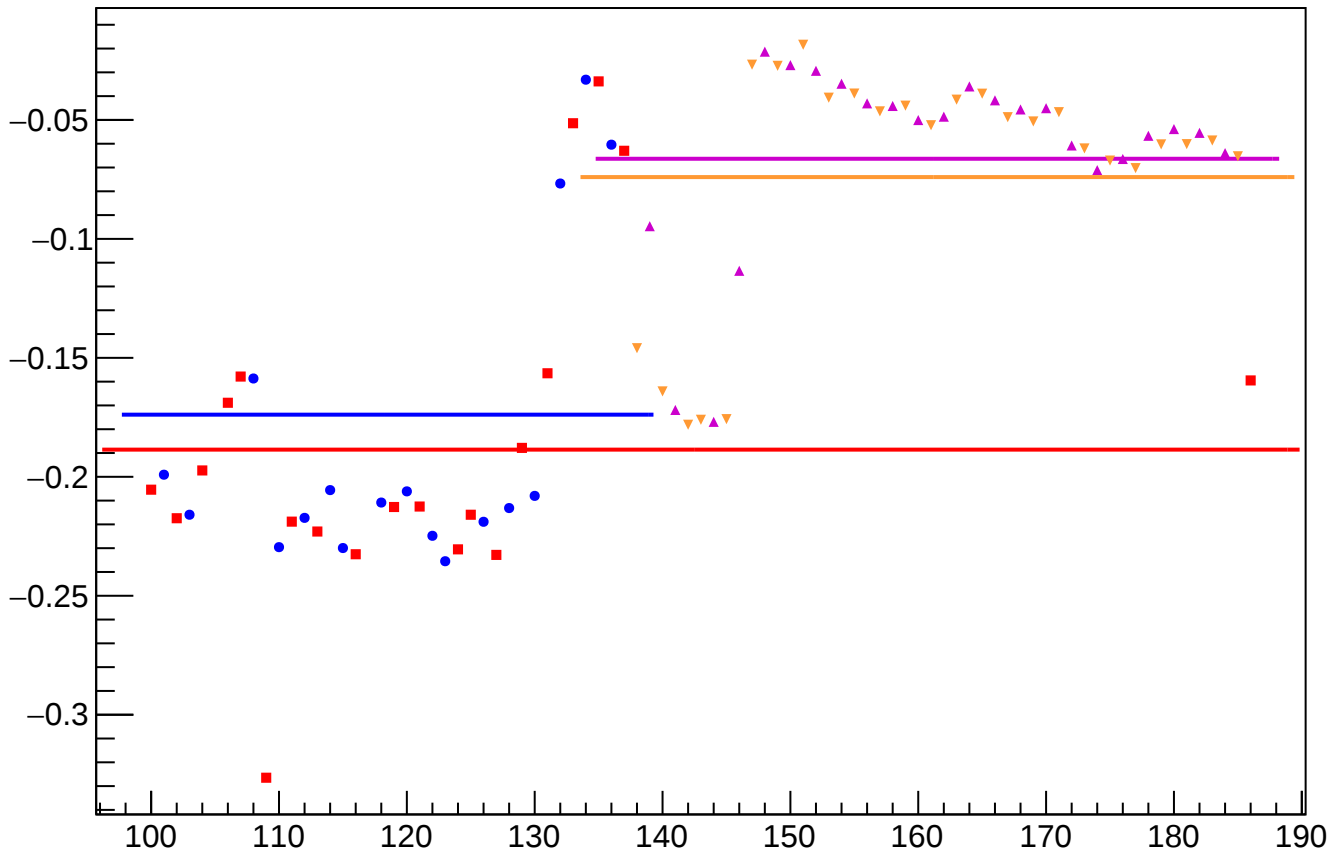
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 3262106.4/36

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2051353.4/39

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2825429.4/44

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 4877160.0/84

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 66778428.3/16

Left Out: -0.074+/-0.000 χ^2/NDF :107676601.9/24

Right Out: -0.189+/-0.000 χ^2/NDF : 82134551.8/19

Left In: -0.066+/-0.000 χ^2/NDF :76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

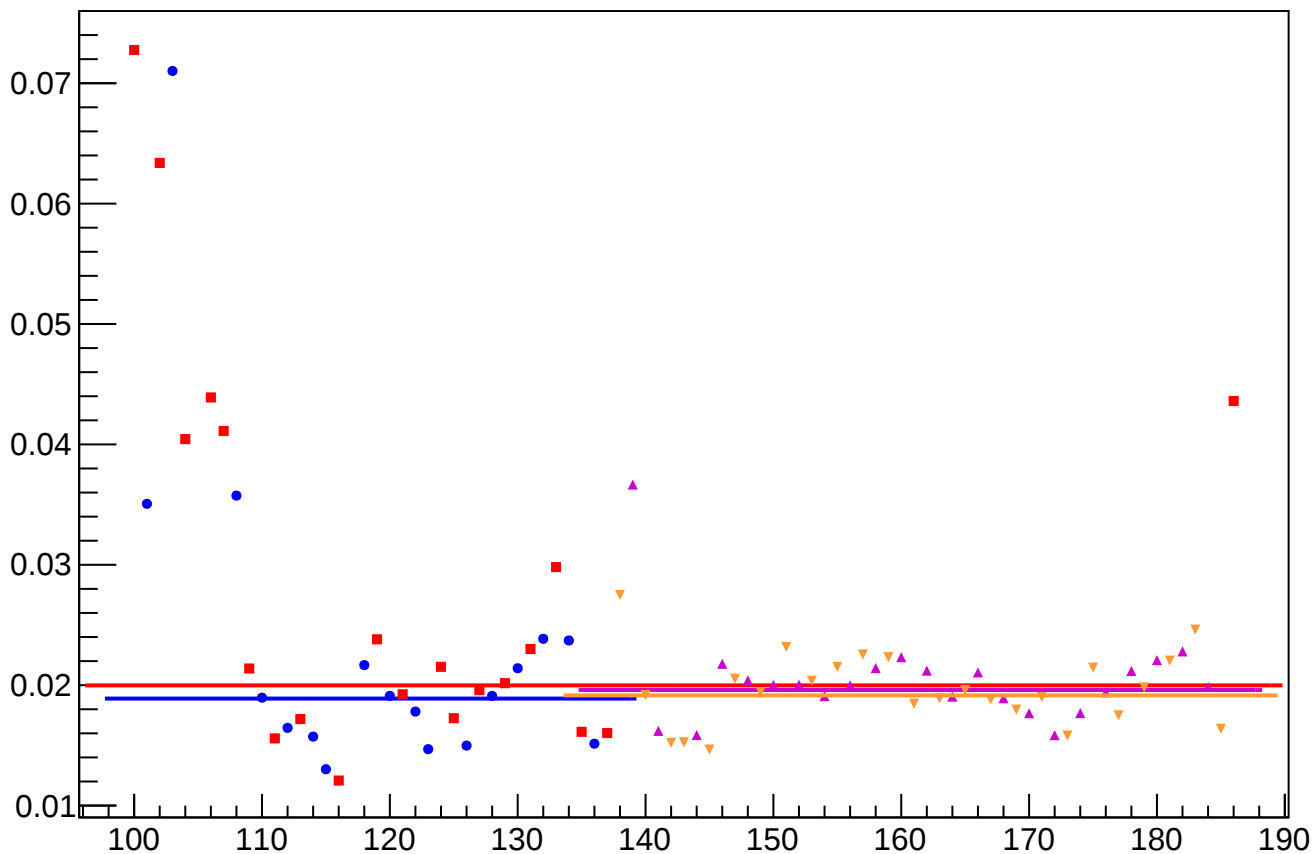
Right: -0.181+/-0.000 χ^2/NDF : 150402732.3/36

In: -0.096+/-0.000 χ^2/NDF :260703413.6/39

Out: -0.102+/-0.000 χ^2/NDF :323834402.1/44

All: -0.099+/-0.000 χ^2/NDF : 585718312.5/84

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1211816.5/16

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.020+/-0.000 χ^2/NDF : 1663477.2/19

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

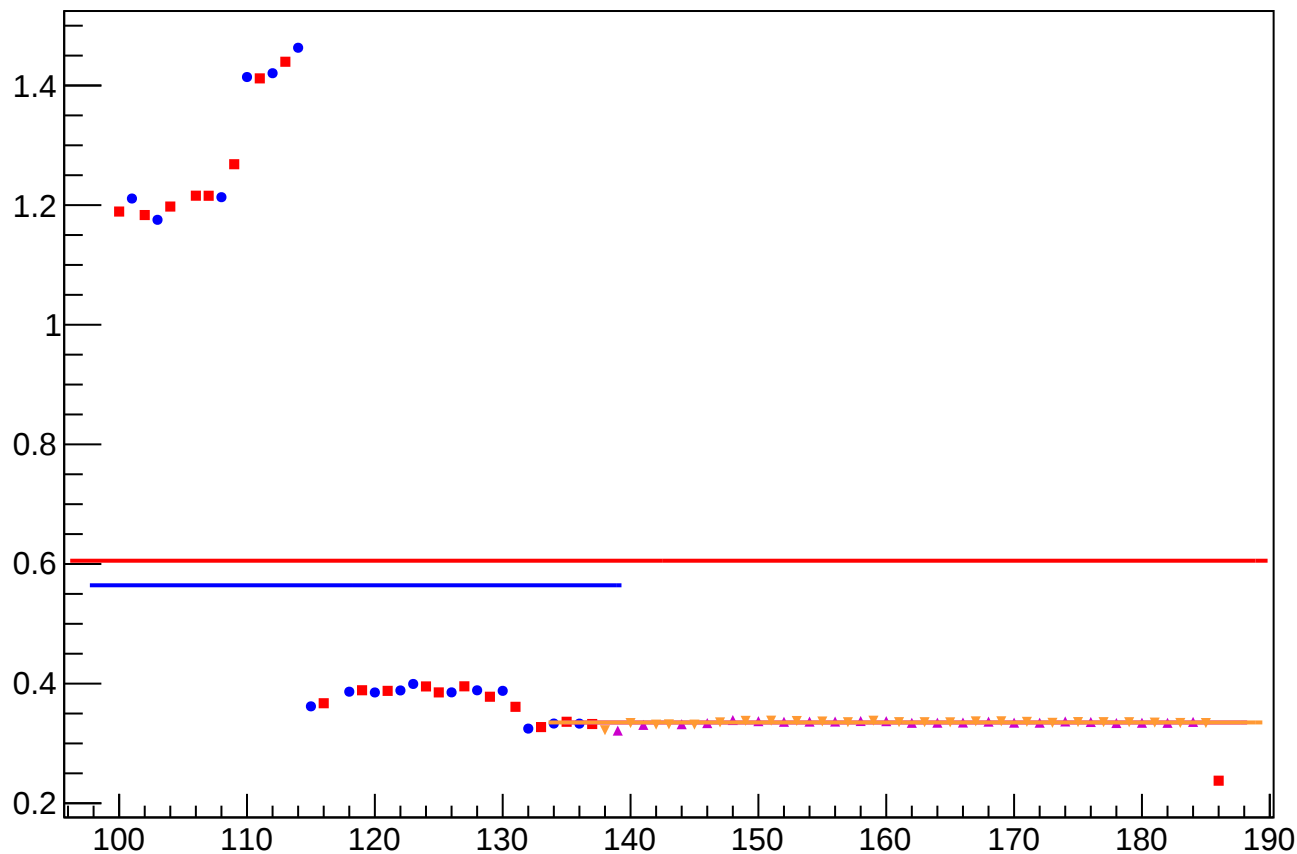
Right: 0.019+/-0.000 χ^2/NDF : 2891833.5/36

In: 0.019+/-0.000 χ^2/NDF : 1845199.0/39

Out: 0.019+/-0.000 χ^2/NDF : 2318934.8/44

All: 0.019+/-0.000 χ^2/NDF : 4164246.8/84

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.564 $\pm$ 0.000 χ^2 /NDF: 5040911893.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF: 1154310.3/24

Right Out: 0.605 $\pm$ 0.000 χ^2 /NDF: 5533644928.7/19

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF: 1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2356931.1/47

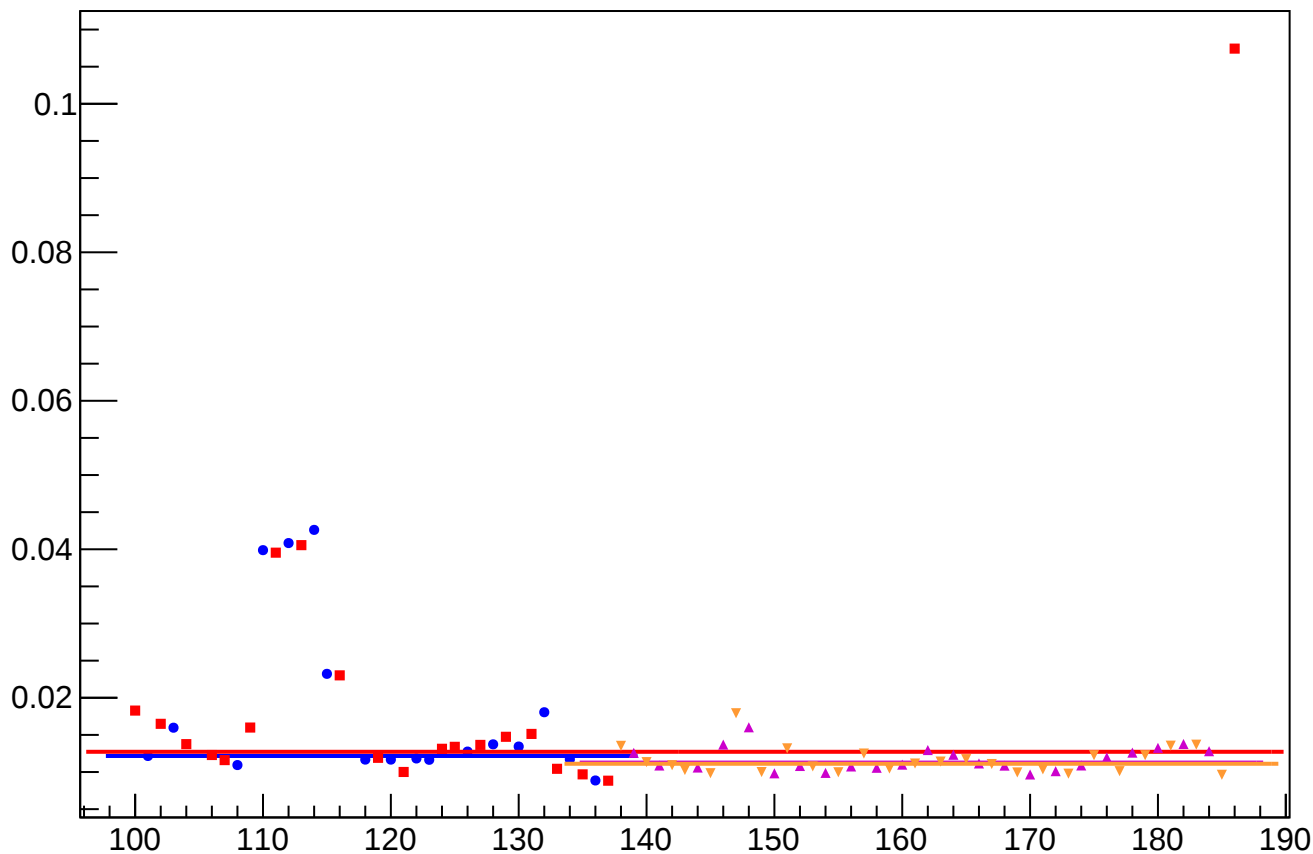
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10606184779.8/36

In: 0.387 $\pm$ 0.000 χ^2 /NDF: 6595145855.7/39

Out: 0.391 $\pm$ 0.000 χ^2 /NDF: 7667662594.7/44

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 14263985320.5/83

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1304124.1/16

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1822789.0/19

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

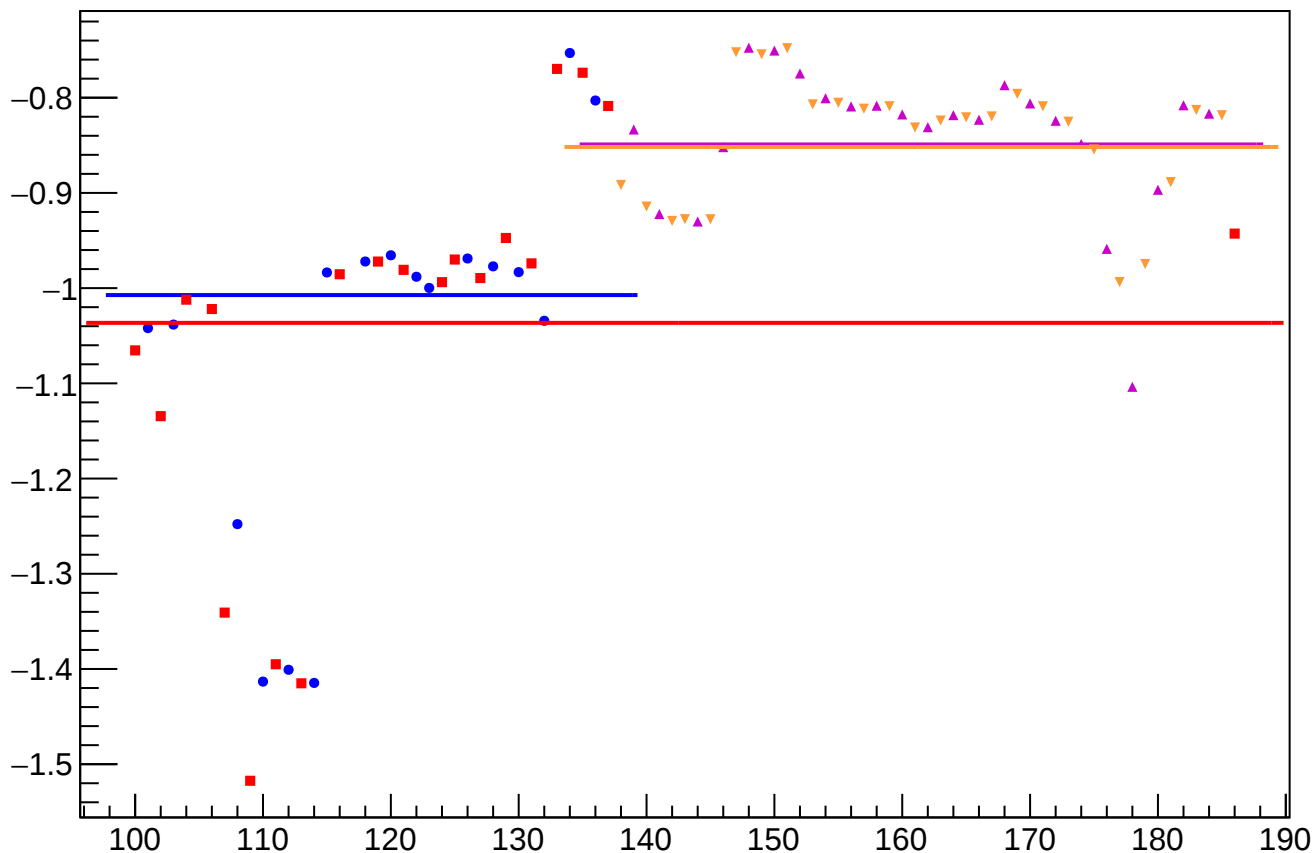
Right: 0.012+/-0.000 χ^2/NDF : 3138879.1/36

In: 0.011+/-0.000 χ^2/NDF : 1853158.2/39

Out: 0.011+/-0.000 χ^2/NDF : 2582256.9/44

All: 0.011+/-0.000 χ^2/NDF : 4435564.9/84

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.007 ± 0.000 χ^2/NDF : 393589325.7/16

Left Out: -0.852 ± 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.036 ± 0.000 χ^2/NDF : 537408917.6/19

Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 ± 0.000 χ^2/NDF : 445636655.2/47

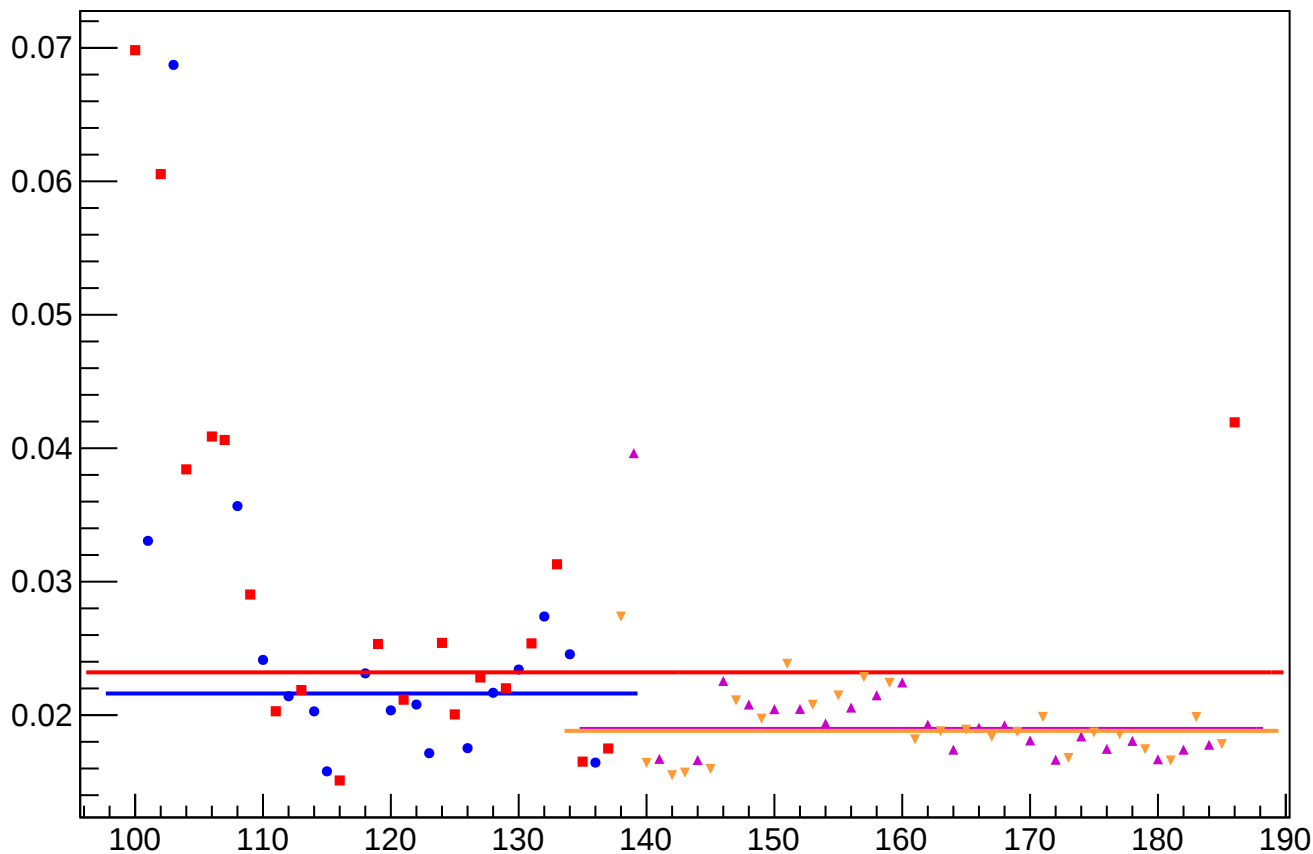
Right: -1.022 ± 0.000 χ^2/NDF : 935519445.2/36

In: -0.884 ± 0.000 χ^2/NDF : 862747818.3/39

Out: -0.888 ± 0.000 χ^2/NDF : 1010221826.6/44

All: -0.886 ± 0.000 χ^2/NDF : 1873530989.4/8

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 984588.1/16

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.023+/-0.000 χ^2/NDF : 1293192.5/19

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

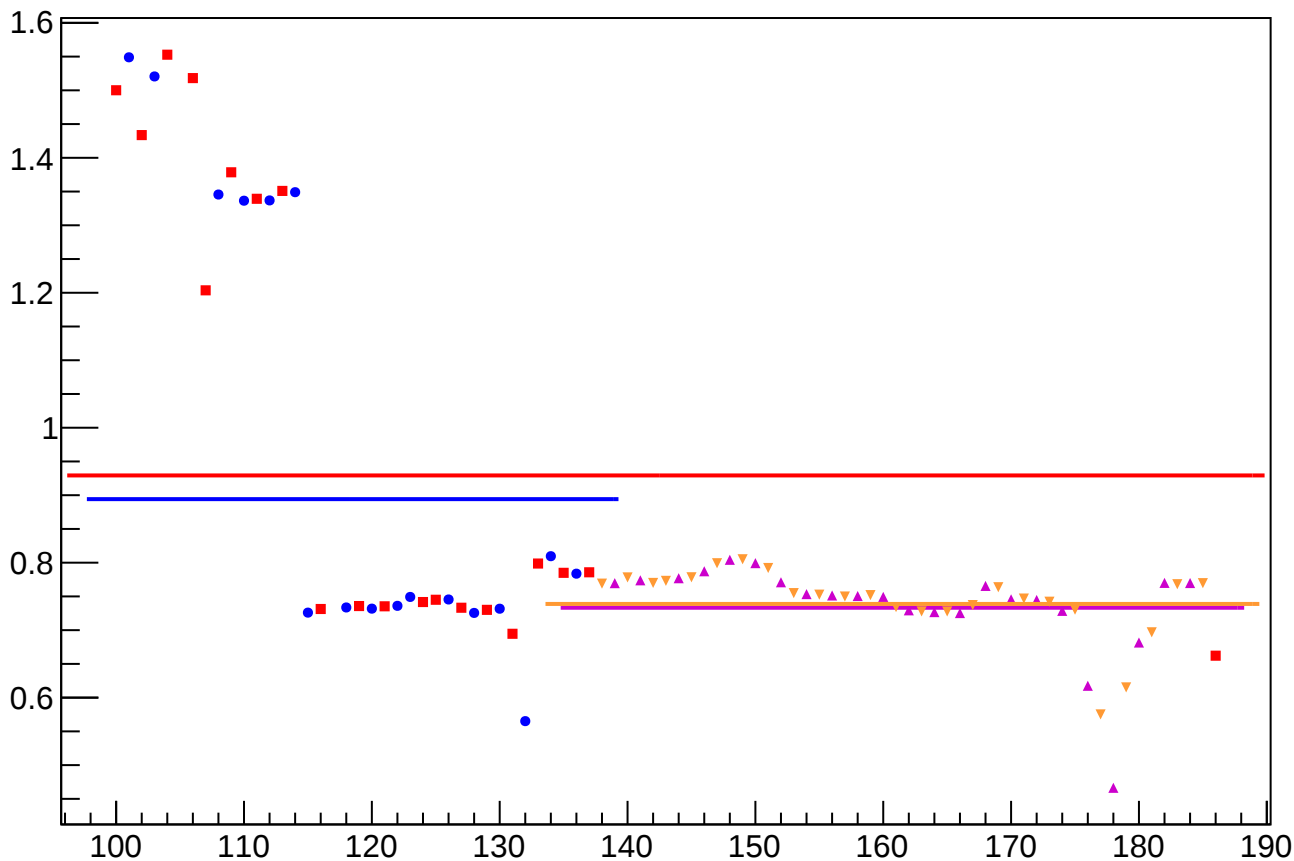
Right: 0.022+/-0.000 χ^2/NDF : 2304421.9/36

In: 0.020+/-0.000 χ^2/NDF : 1719545.9/39

Out: 0.020+/-0.000 χ^2/NDF : 2103000.3/44

All: 0.020+/-0.000 χ^2/NDF : 3823616.4/84

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.894 $\pm$ 0.000 χ^2/NDF : 2399022212.9/16

Left Out: 0.739 $\pm$ 0.000 χ^2/NDF :333013236.5/24

Right Out: 0.929 $\pm$ 0.000 χ^2/NDF : 2423051847.2/19

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

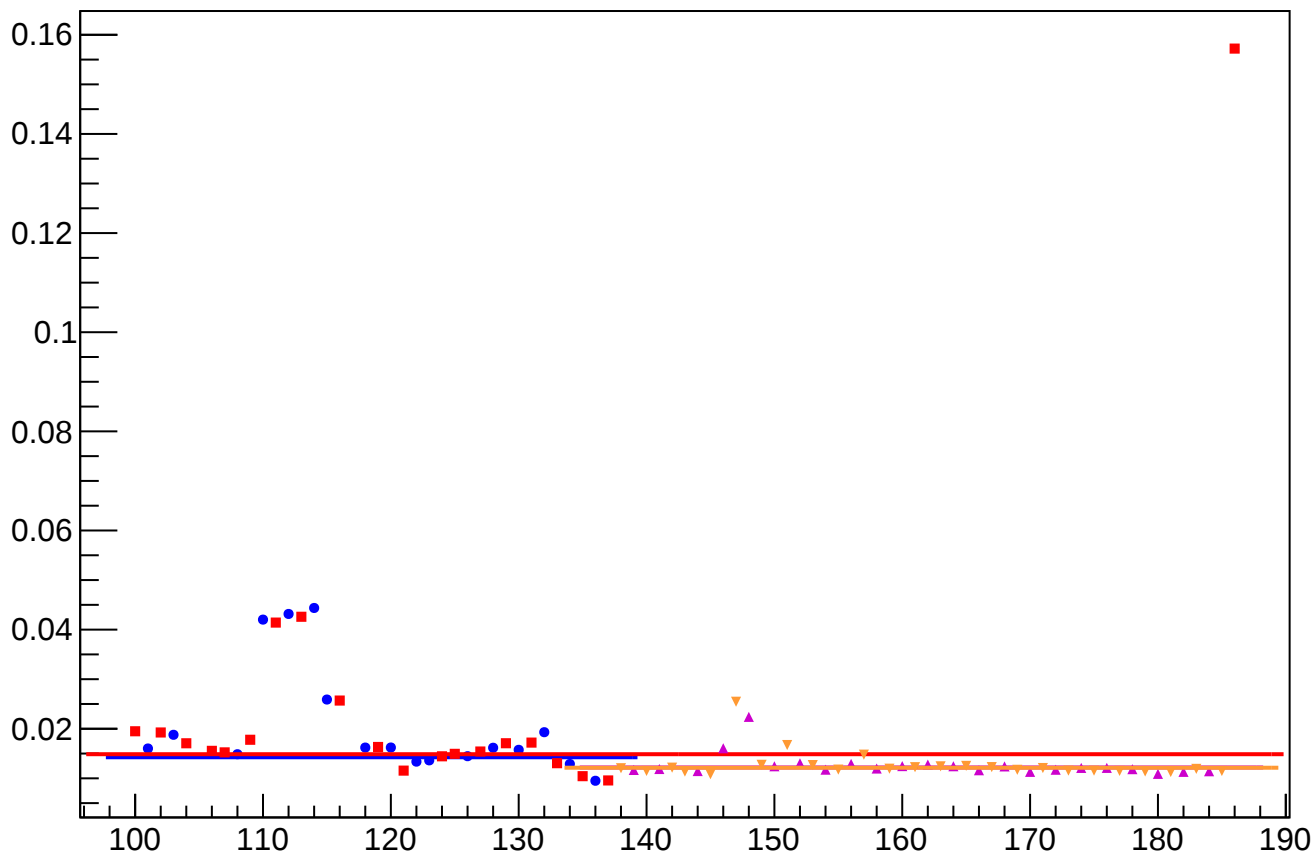
Right: 0.912 $\pm$ 0.000 χ^2/NDF : 4839032090.4/36

In: 0.765 $\pm$ 0.000 χ^2/NDF :3544269880.2/39

Out: 0.774 $\pm$ 0.000 χ^2/NDF :3561630771.0/44

All: 0.770 $\pm$ 0.000 χ^2/NDF : 7111930580.1/84

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1409964.0/16

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1855724.0/19

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

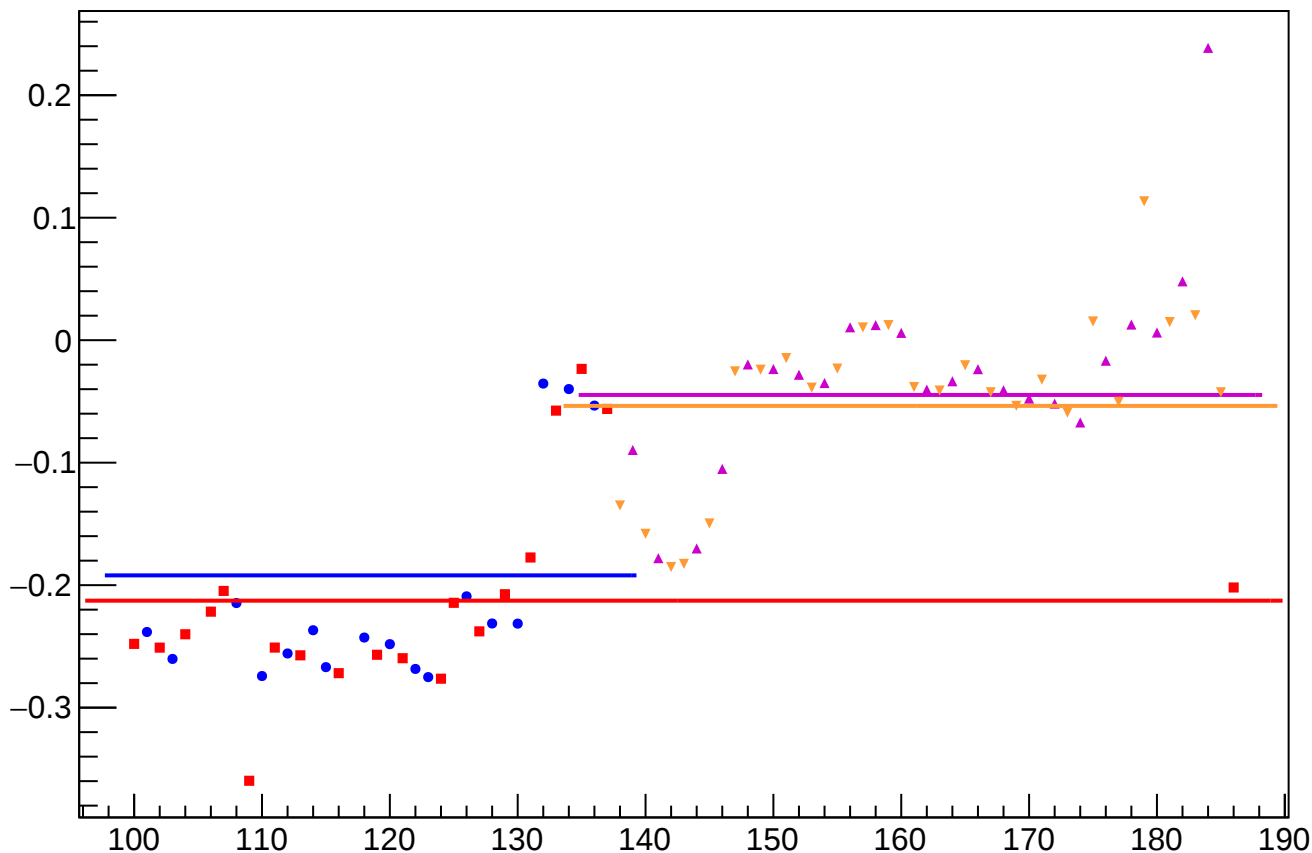
Right: 0.015+/-0.000 χ^2/NDF : 3276114.5/36

In: 0.013+/-0.000 χ^2/NDF : 2080559.5/39

Out: 0.013+/-0.000 χ^2/NDF : 2824403.3/44

All: 0.013+/-0.000 χ^2/NDF : 4905287.9/84

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192 ± 0.000 $\chi^2/\text{NDF}: 106200458.9/16$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.213 ± 0.000 $\chi^2/\text{NDF}: 110543823.5/19$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

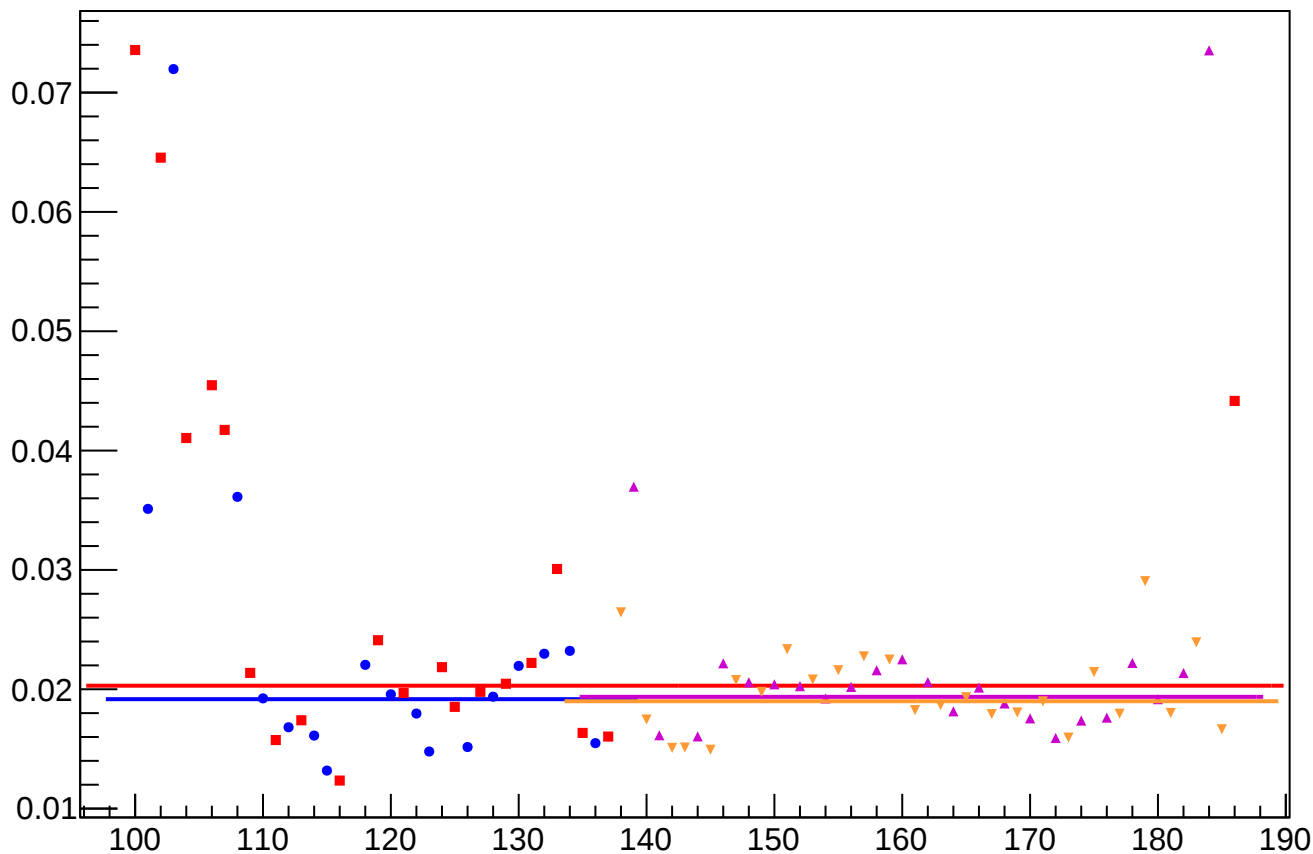
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 219599098.0/36$

In: -0.084 ± 0.000 $\chi^2/\text{NDF}: 449362341.1/39$

Out: -0.093 ± 0.000 $\chi^2/\text{NDF}: 529388882.2/44$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 980515194.7/84$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1182752.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.020+/-0.000 χ^2/NDF : 1653440.4/19

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

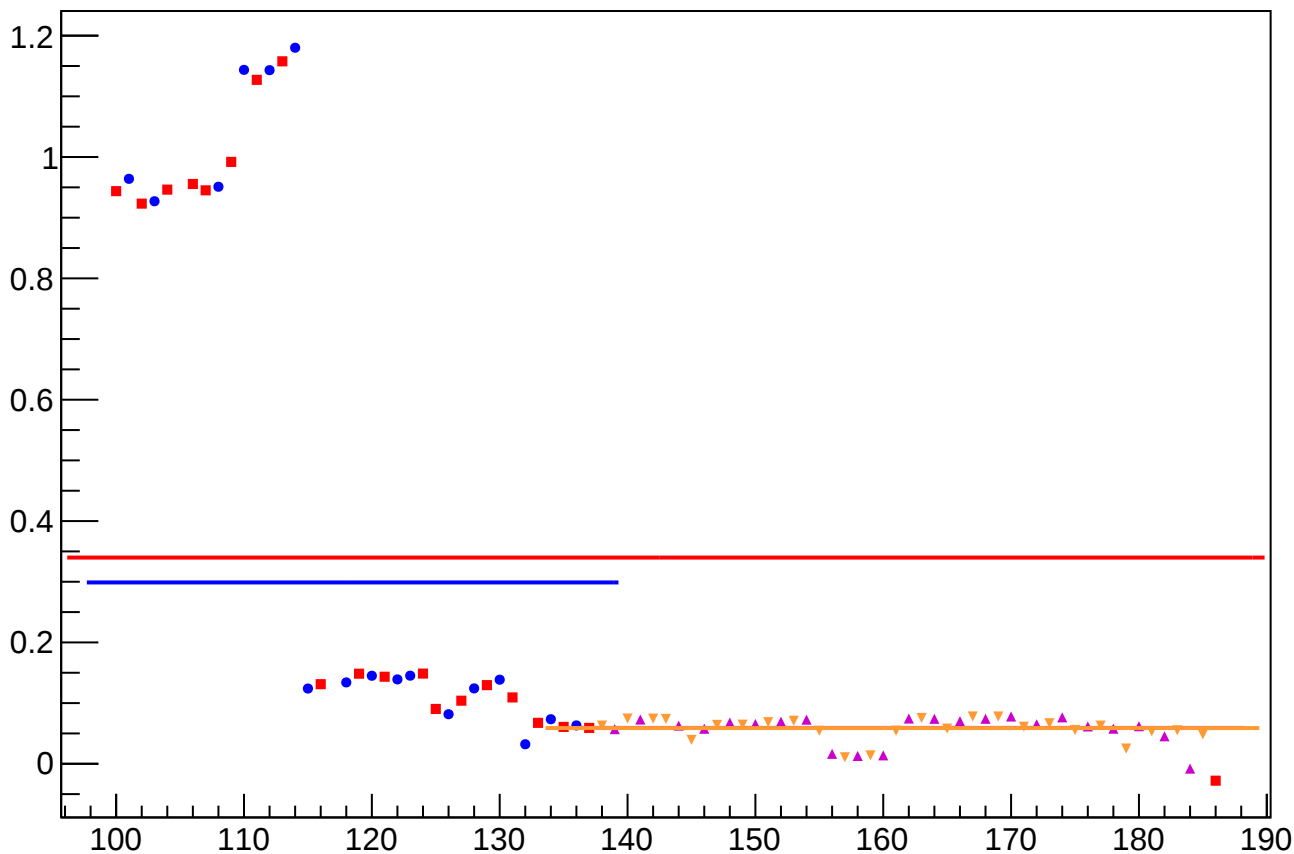
Right: 0.020+/-0.000 χ^2/NDF : 2853288.2/36

In: 0.019+/-0.000 χ^2/NDF : 2041736.4/39

Out: 0.019+/-0.000 χ^2/NDF : 2387357.1/44

All: 0.019+/-0.000 χ^2/NDF : 4429094.2/84

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.299+/-0.000 χ^2/NDF : 5180137730.5/16

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.340+/-0.000 χ^2/NDF : 5477919892.5/19

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

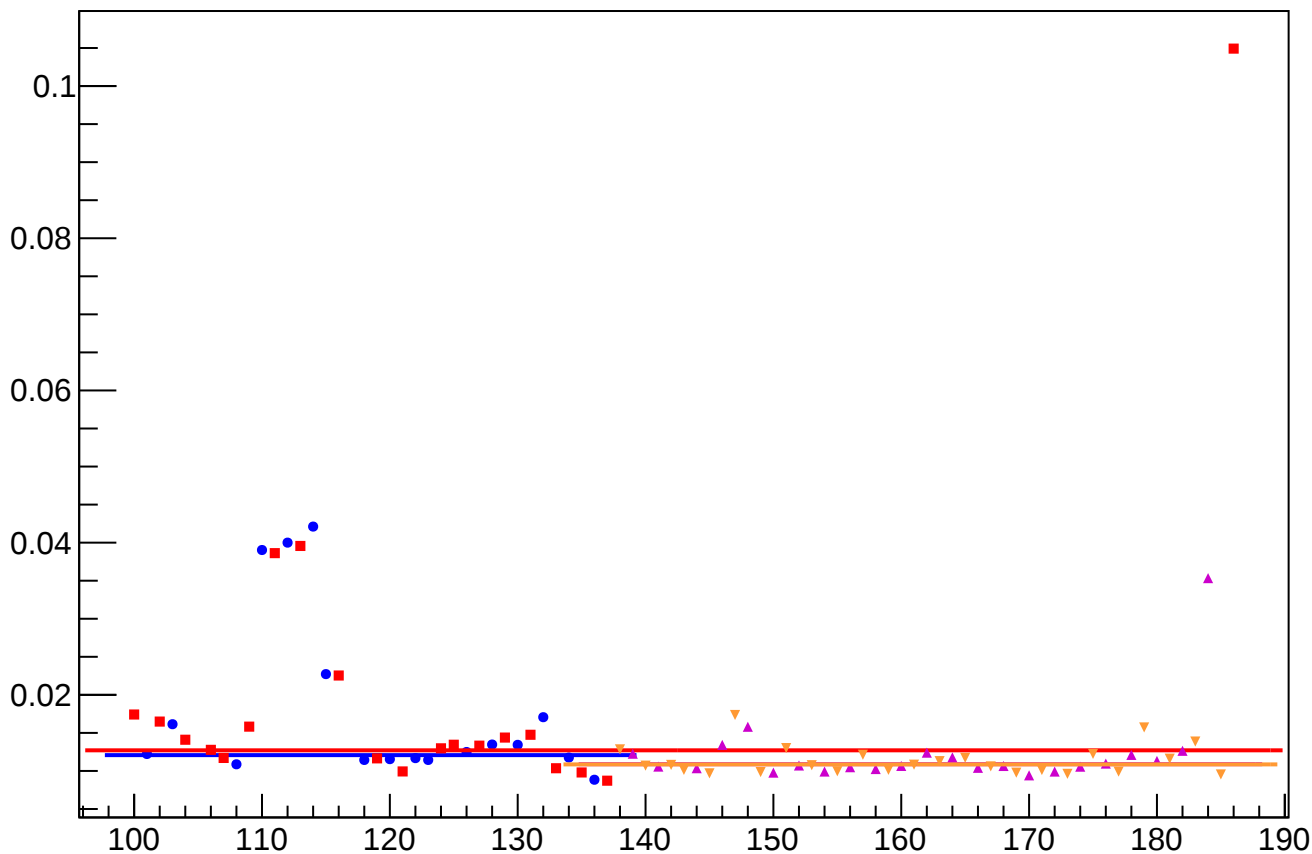
Right: 0.319+/-0.000 χ^2/NDF : 10689850493.7/36

In: 0.112+/-0.000 χ^2/NDF : 6972307345.7/39

Out: 0.116+/-0.000 χ^2/NDF : 7841833902.7/44

All: 0.114+/-0.000 χ^2/NDF : 14815443503.4/80

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1276713.5/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1786468.3/19

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

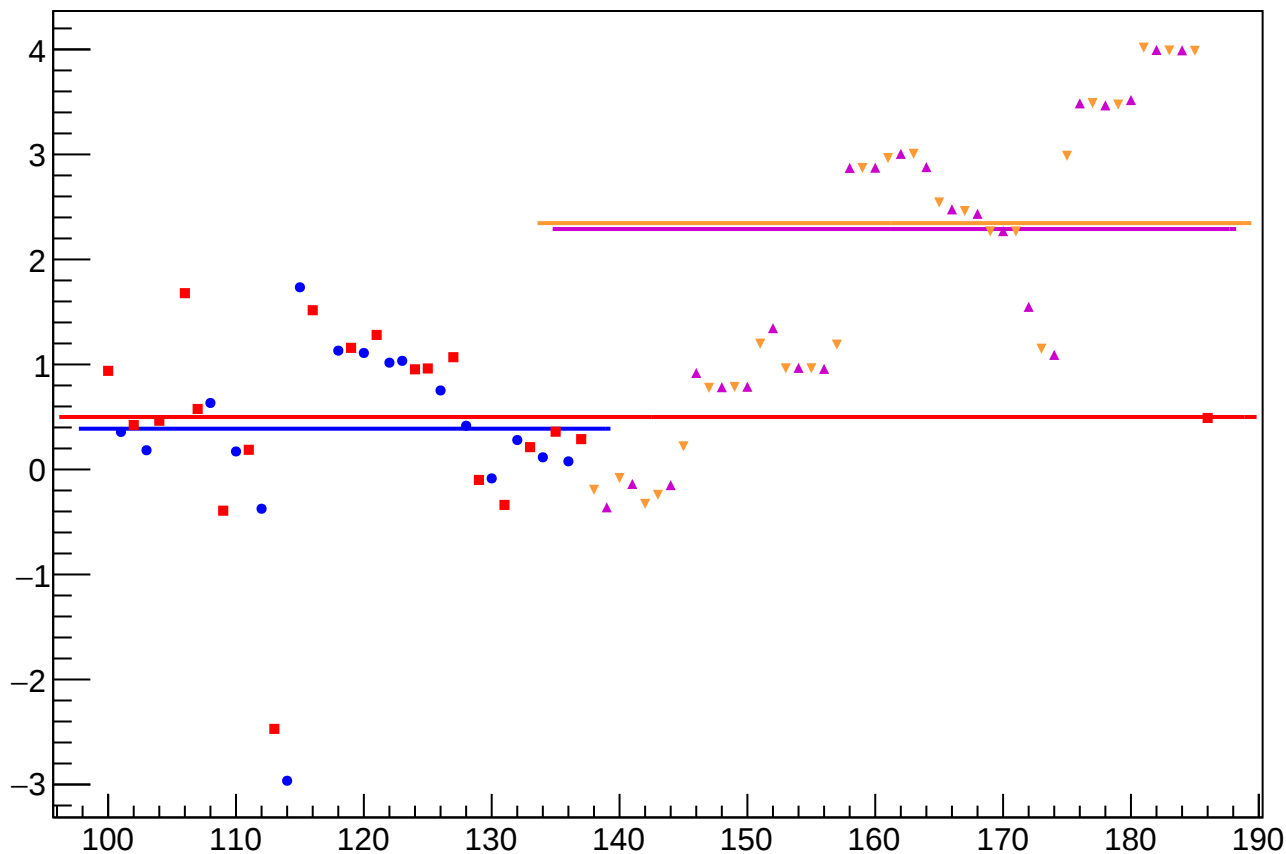
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3078270.4/36

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1891827.0/39

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2592035.6/44

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4485088.5/84

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.388 $\pm$ 0.000 χ^2/NDF : 245257258.4/16

Left Out: 2.346 $\pm$ 0.000 χ^2/NDF :63481331015.4/24

Right Out: 0.500 $\pm$ 0.000 χ^2/NDF : 983060385.2/19

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

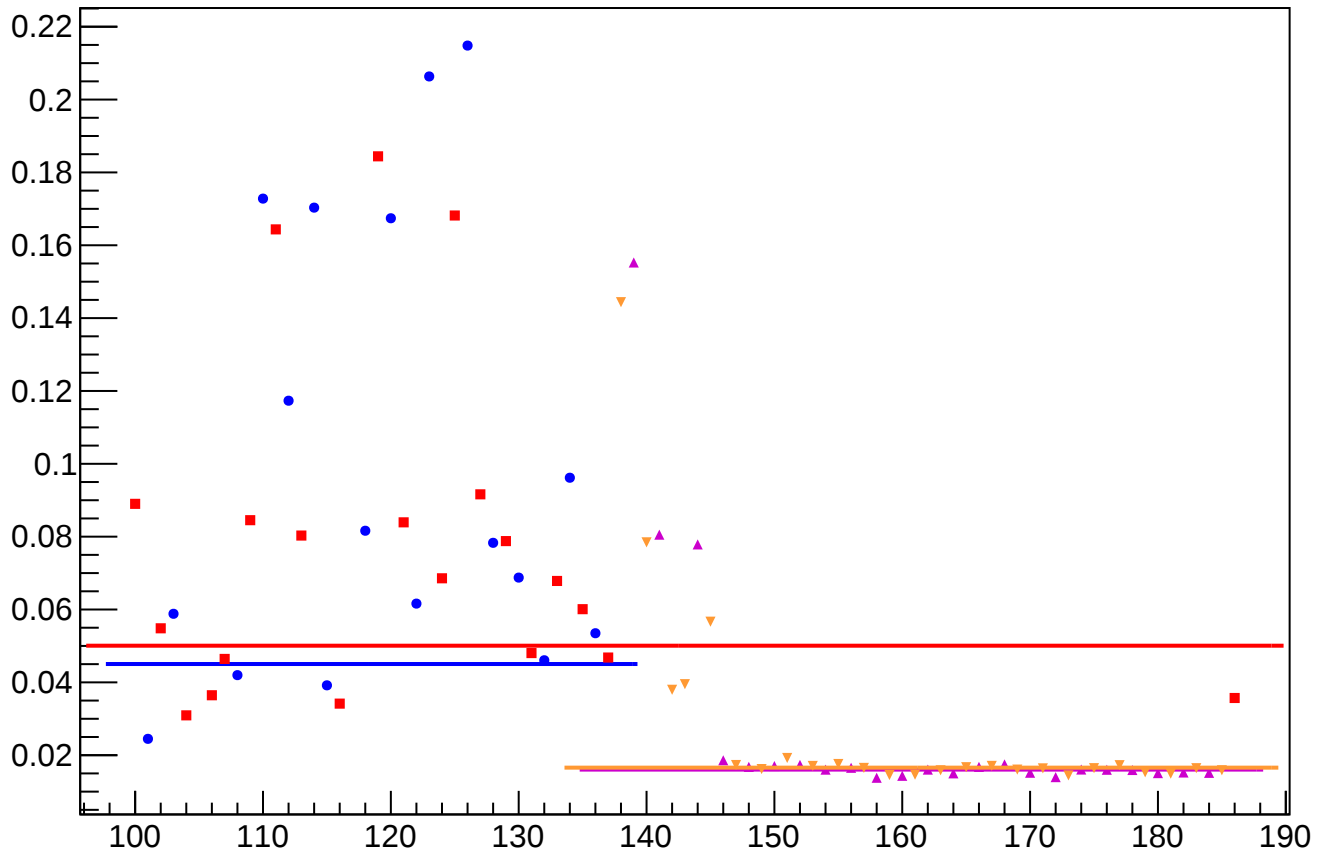
Right: 0.444 $\pm$ 0.000 χ^2/NDF : 1239175459.1/36

In: 2.228 $\pm$ 0.000 χ^2/NDF :67232442270.7/39

Out: 2.285 $\pm$ 0.000 χ^2/NDF :70231620841.0/44

All: 2.256 $\pm$ 0.000 χ^2/NDF : 137550745479.3

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 2830669.1/16

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.050 $\pm$ 0.000 χ^2 /NDF: 2303294.8/19

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5030430.5/47

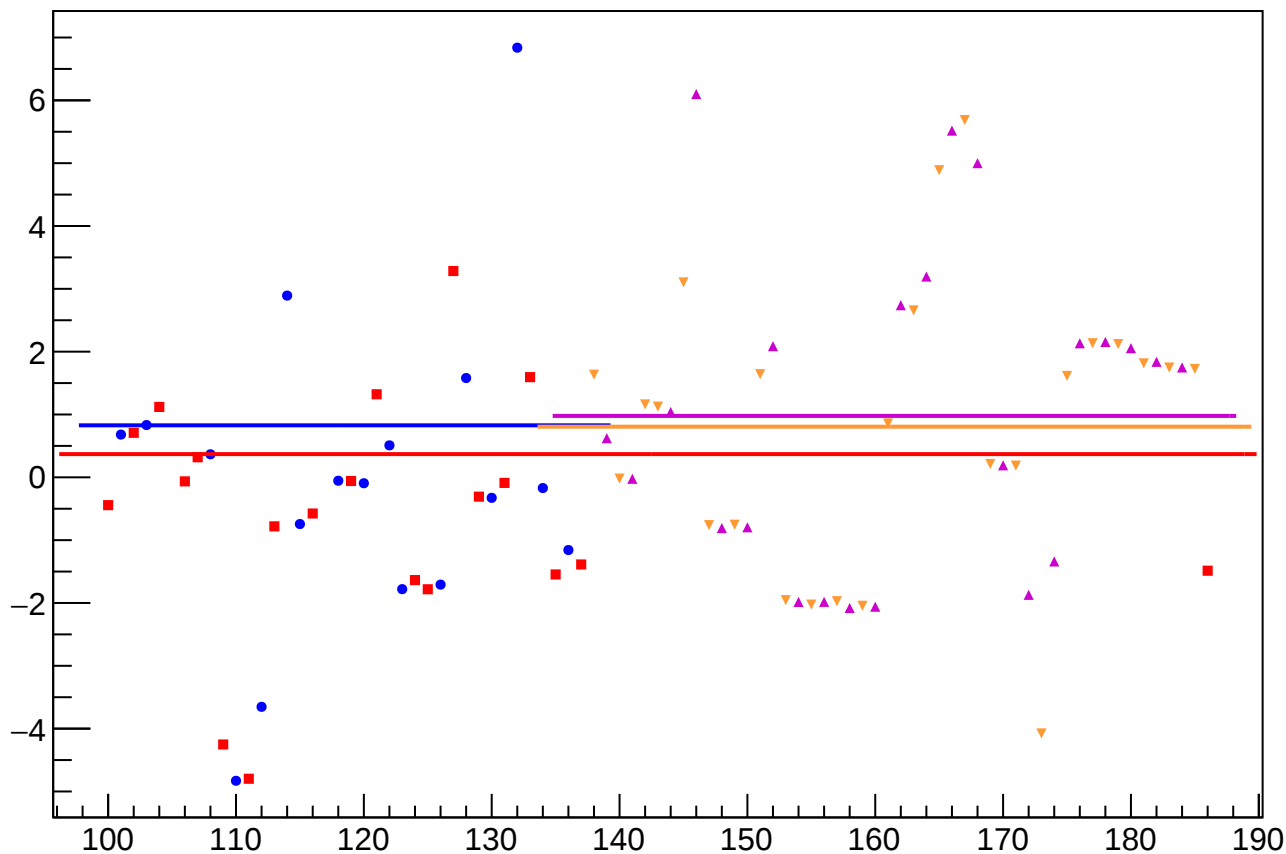
Right: 0.048 $\pm$ 0.000 χ^2 /NDF: 5178211.2/36

In: 0.017 $\pm$ 0.000 χ^2 /NDF:8066400.2/39

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:8717123.1/44

All: 0.017 $\pm$ 0.000 χ^2 /NDF: 16809921.4/84

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.828+/-0.000 χ^2/NDF : 10934615588.5/16

Left Out: 0.806+/-0.000 χ^2/NDF : 507578952196.2/24

Right Out: 0.369+/-0.000 χ^2/NDF : 4993173320.4/19

Left In: 0.977+/-0.000 χ^2/NDF : 568209676597.4/22

Left: 0.892+/-0.000 χ^2/NDF : 1077036497291.8/47

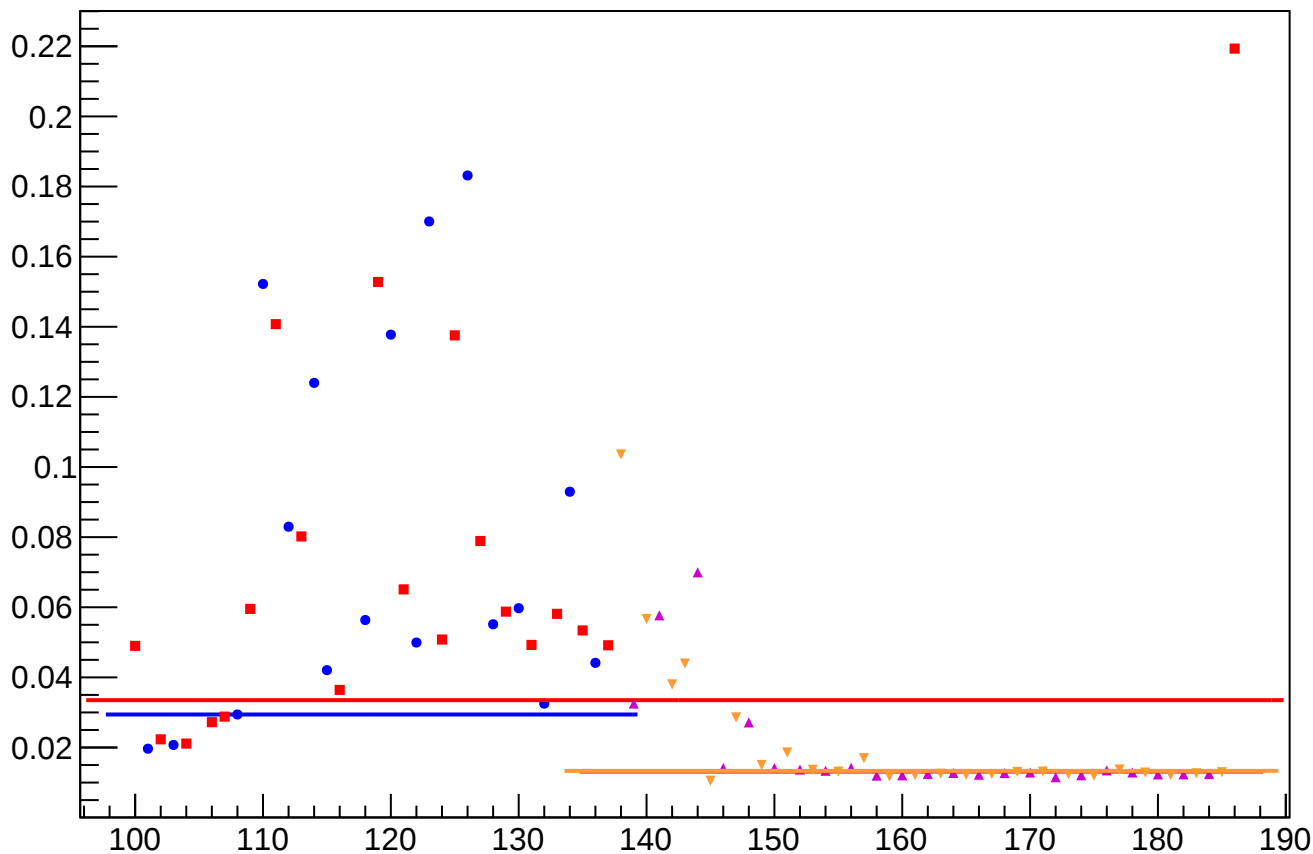
Right: 0.612+/-0.000 χ^2/NDF : 16316974575.1/36

In: 0.971+/-0.000 χ^2/NDF : 579228673937.2/39

Out: 0.789+/-0.000 χ^2/NDF : 513213836543.6/44

All: 0.880+/-0.000 χ^2/NDF : 1093912668568.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3034312.5/16

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.033+/-0.000 χ^2/NDF : 3582495.9/19

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

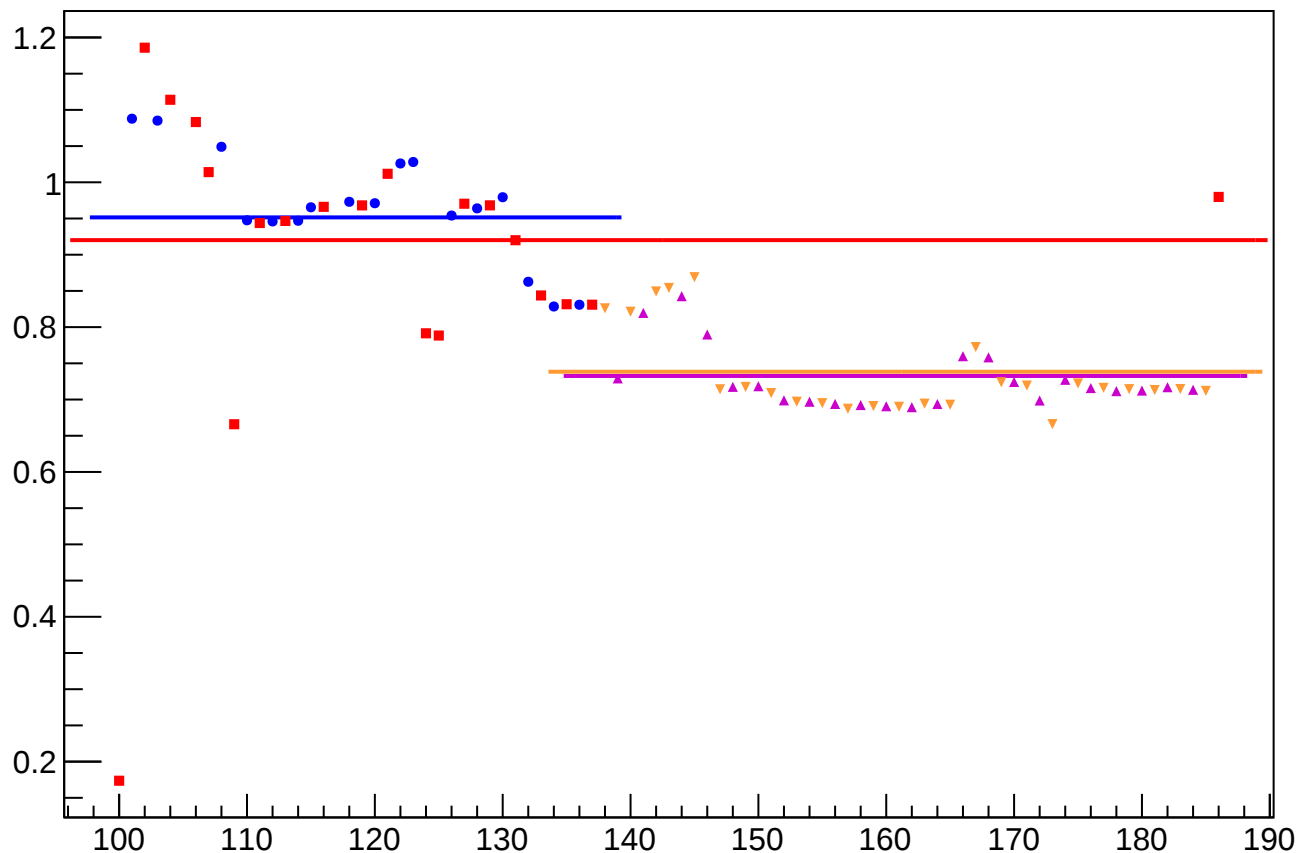
Right: 0.031+/-0.000 χ^2/NDF : 6678599.5/36

In: 0.014+/-0.000 χ^2/NDF : 6973595.1/39

Out: 0.014+/-0.000 χ^2/NDF : 9147810.5/44

All: 0.014+/-0.000 χ^2/NDF : 16128444.6/84

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.952 $\pm$ 0.000 χ^2 /NDF: 173959453.0/16

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 310195180.4/24

Right Out: 0.920 $\pm$ 0.000 χ^2 /NDF: 376661476.1/19

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

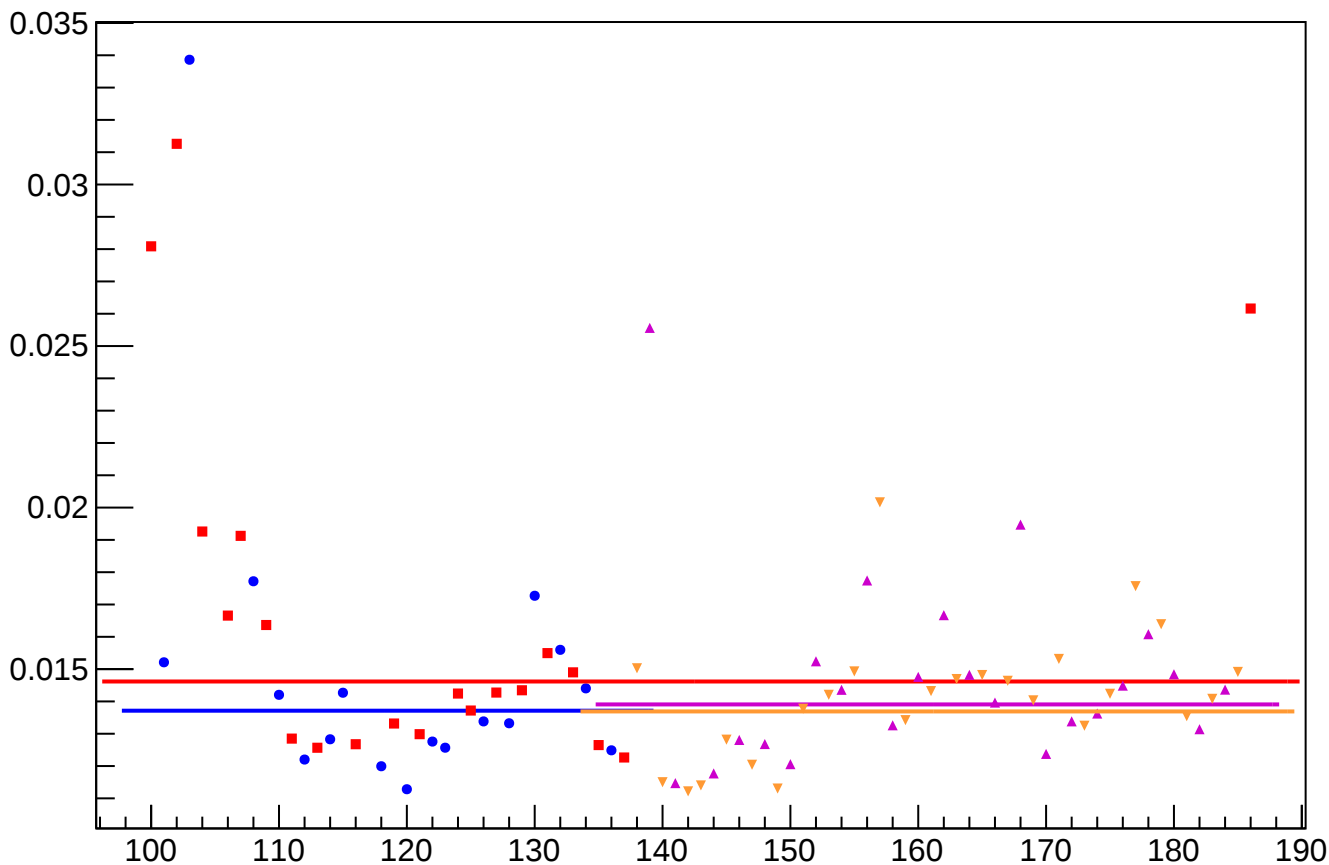
Right: 0.936 $\pm$ 0.000 χ^2 /NDF: 565562944.4/36

In: 0.794 $\pm$ 0.000 χ^2 /NDF: 1410406192.6/39

Out: 0.785 $\pm$ 0.000 χ^2 /NDF: 1417851722.4/44

All: 0.789 $\pm$ 0.000 χ^2 /NDF: 2832406482.4/84

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546221.8/16

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.015+/-0.000 χ^2/NDF : 647698.4/19

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

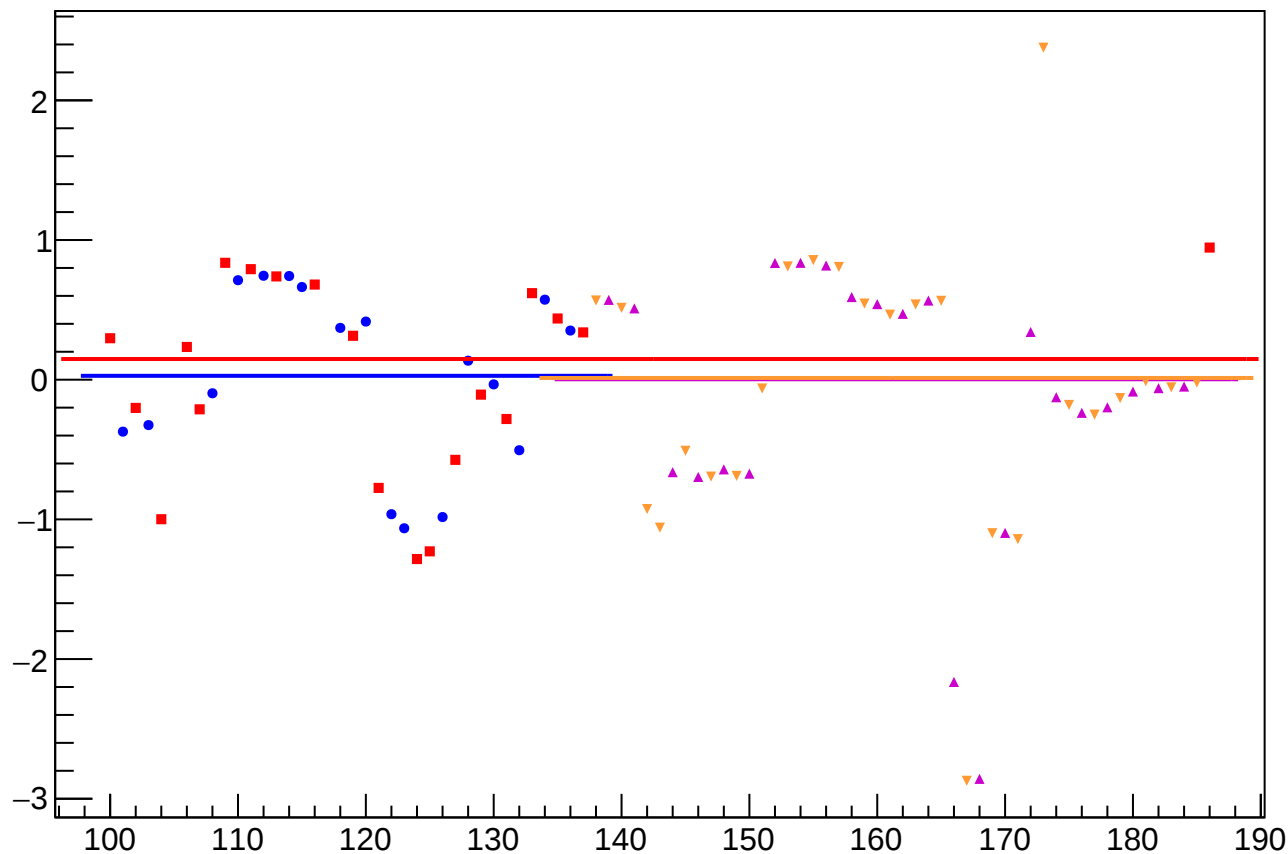
Right: 0.014+/-0.000 χ^2/NDF : 1218668.8/36

In: 0.014+/-0.000 χ^2/NDF : 1316062.2/39

Out: 0.014+/-0.000 χ^2/NDF : 1214206.6/44

All: 0.014+/-0.000 χ^2/NDF : 2530899.8/84

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 6330660019.5/16

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 96383858927.1/24

Right Out: 0.148 $\pm$ 0.000 χ^2 /NDF: 12789617145.9/19

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 78826489573.0/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 175214894006.3/47

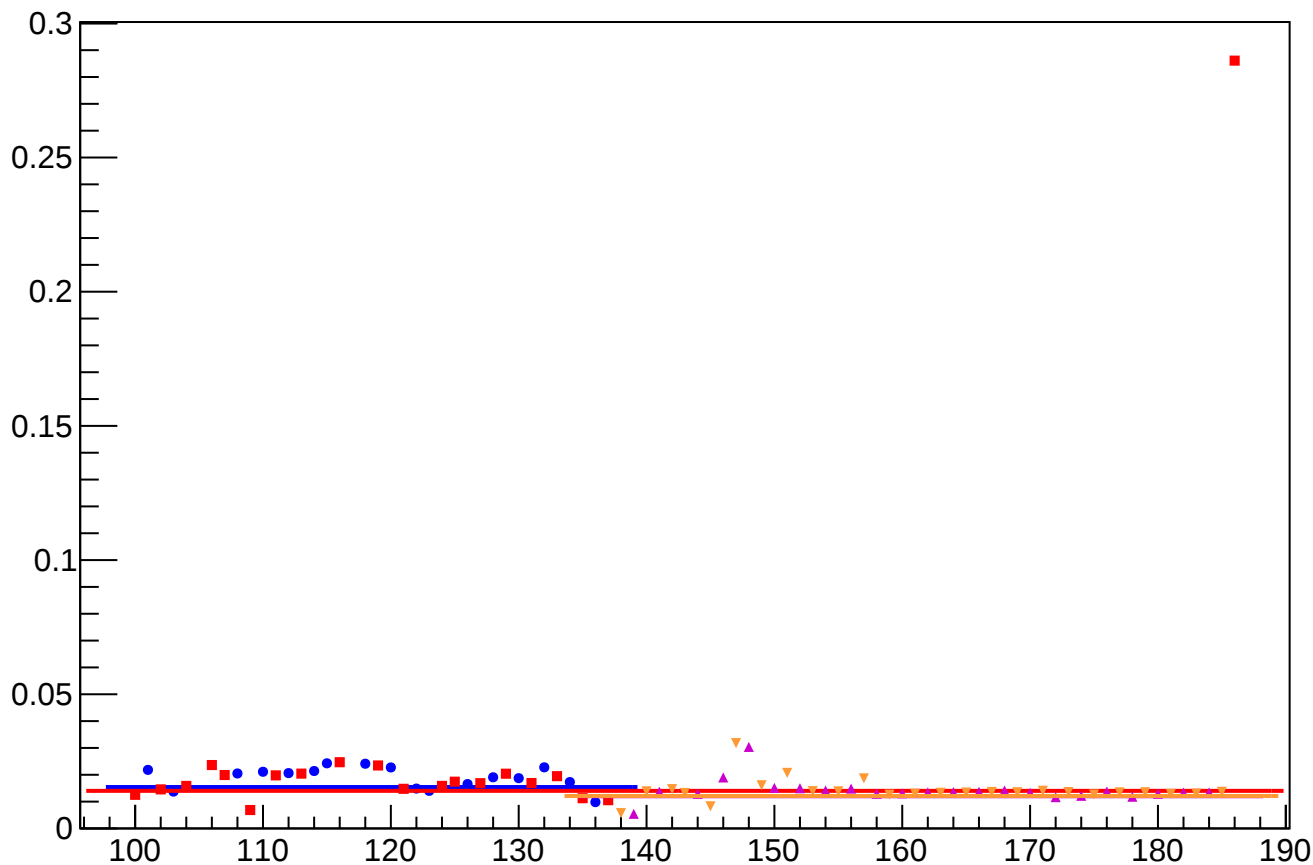
Right: 0.094 $\pm$ 0.000 χ^2 /NDF: 19307643909.2/36

In: 0.008 $\pm$ 0.000 χ^2 /NDF: 85168863588.3/39

Out: 0.041 $\pm$ 0.000 χ^2 /NDF: 109591209059.3/44

All: 0.025 $\pm$ 0.000 χ^2 /NDF: 194831832241.5

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1160014.9/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3105238.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2192133.8/19

Left In: 0.012+/-0.000 χ^2/NDF : 3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

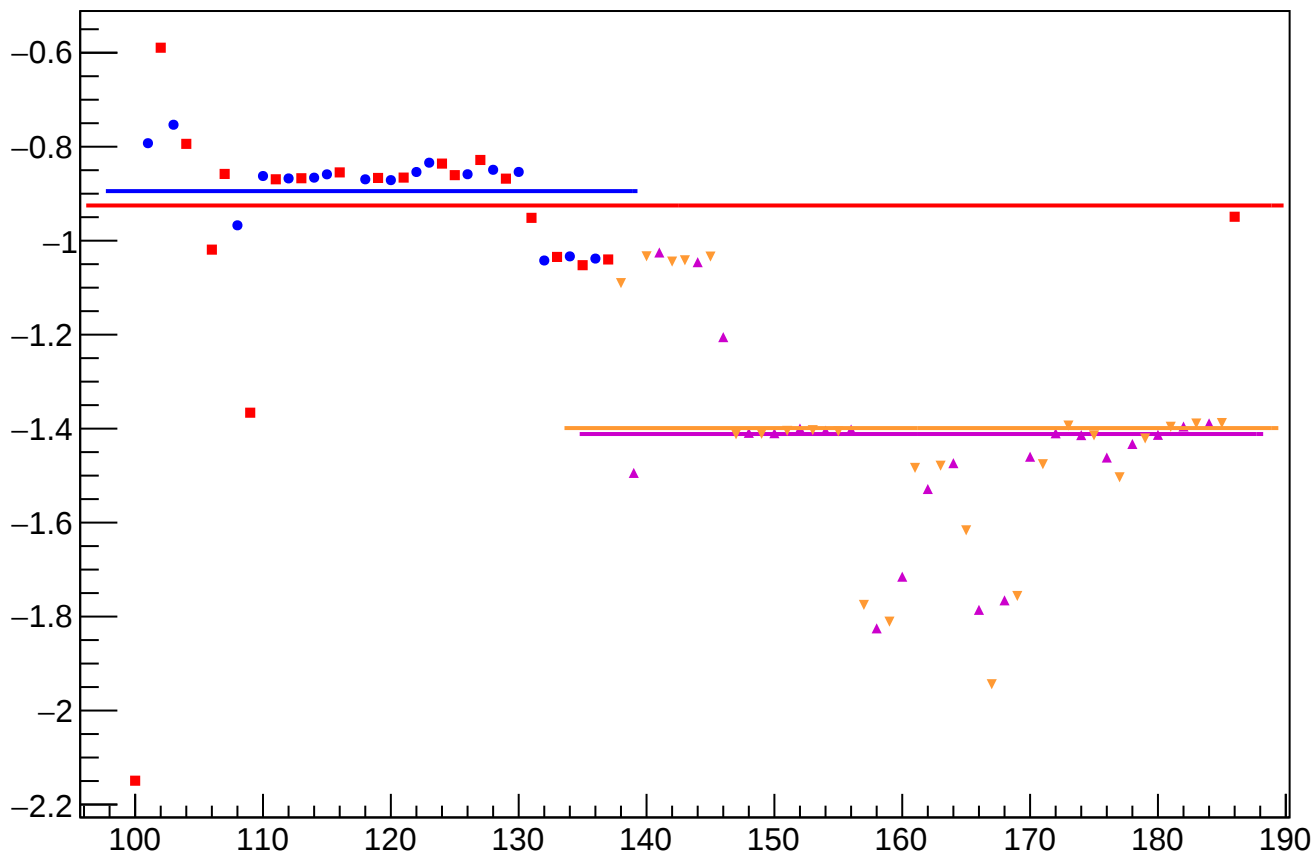
Right: 0.015+/-0.000 χ^2/NDF : 3404783.0/36

In: 0.013+/-0.000 χ^2/NDF : 4619946.0/39

Out: 0.013+/-0.000 χ^2/NDF : 5462083.1/44

All: 0.013+/-0.000 χ^2/NDF : 10084259.3/84

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.895 ± 0.000 $\chi^2/\text{NDF}: 37736129.8/16$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.925 ± 0.000 $\chi^2/\text{NDF}: 128528123.6/19$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

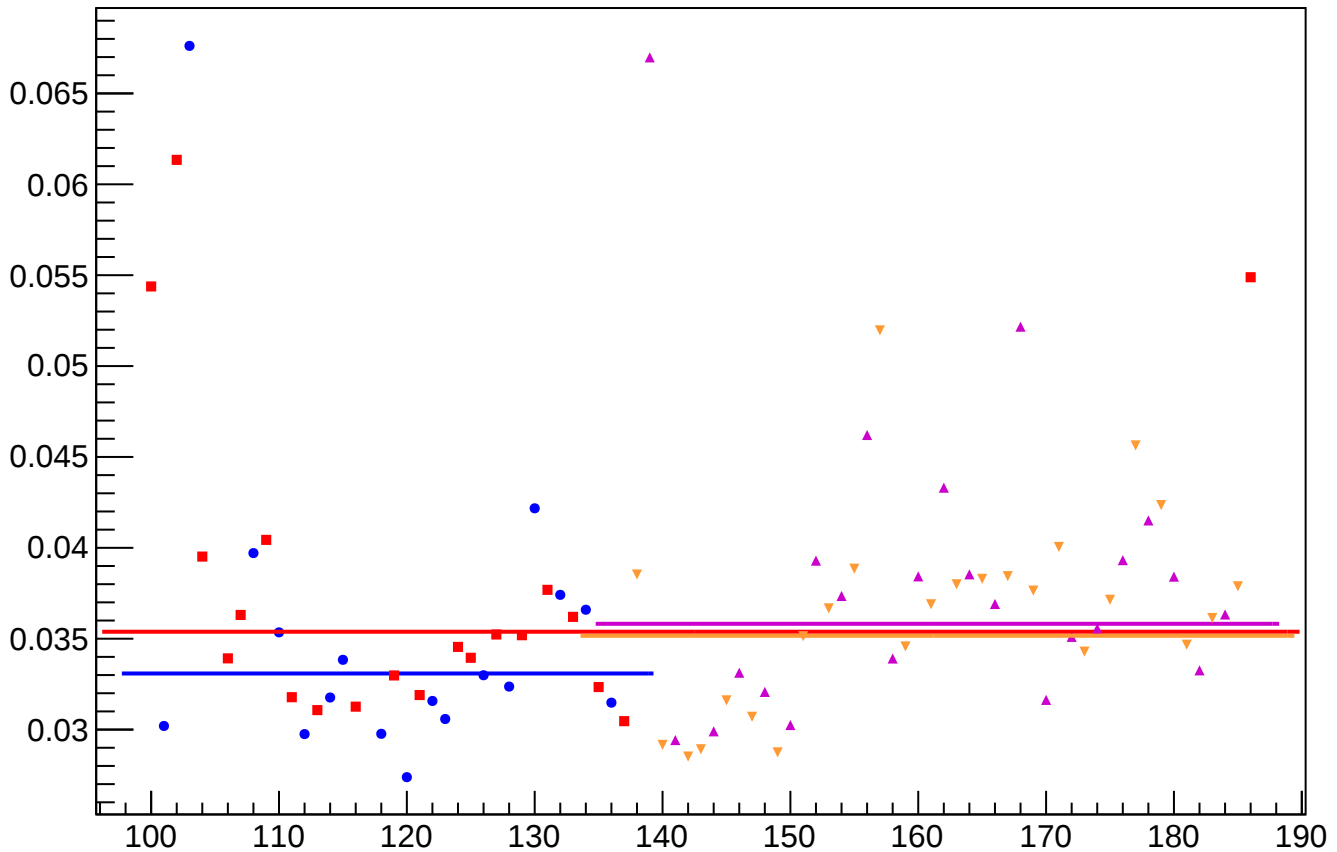
Right: -0.910 ± 0.000 $\chi^2/\text{NDF}: 168718354.2/36$

In: -1.251 ± 0.000 $\chi^2/\text{NDF}: 1536059353.9/39$

Out: -1.264 ± 0.000 $\chi^2/\text{NDF}: 1694383926.9/44$

All: -1.258 ± 0.000 $\chi^2/\text{NDF}: 3231892318.0/8$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 408714.5/16

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.035+/-0.000 χ^2/NDF : 369422.4/19

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

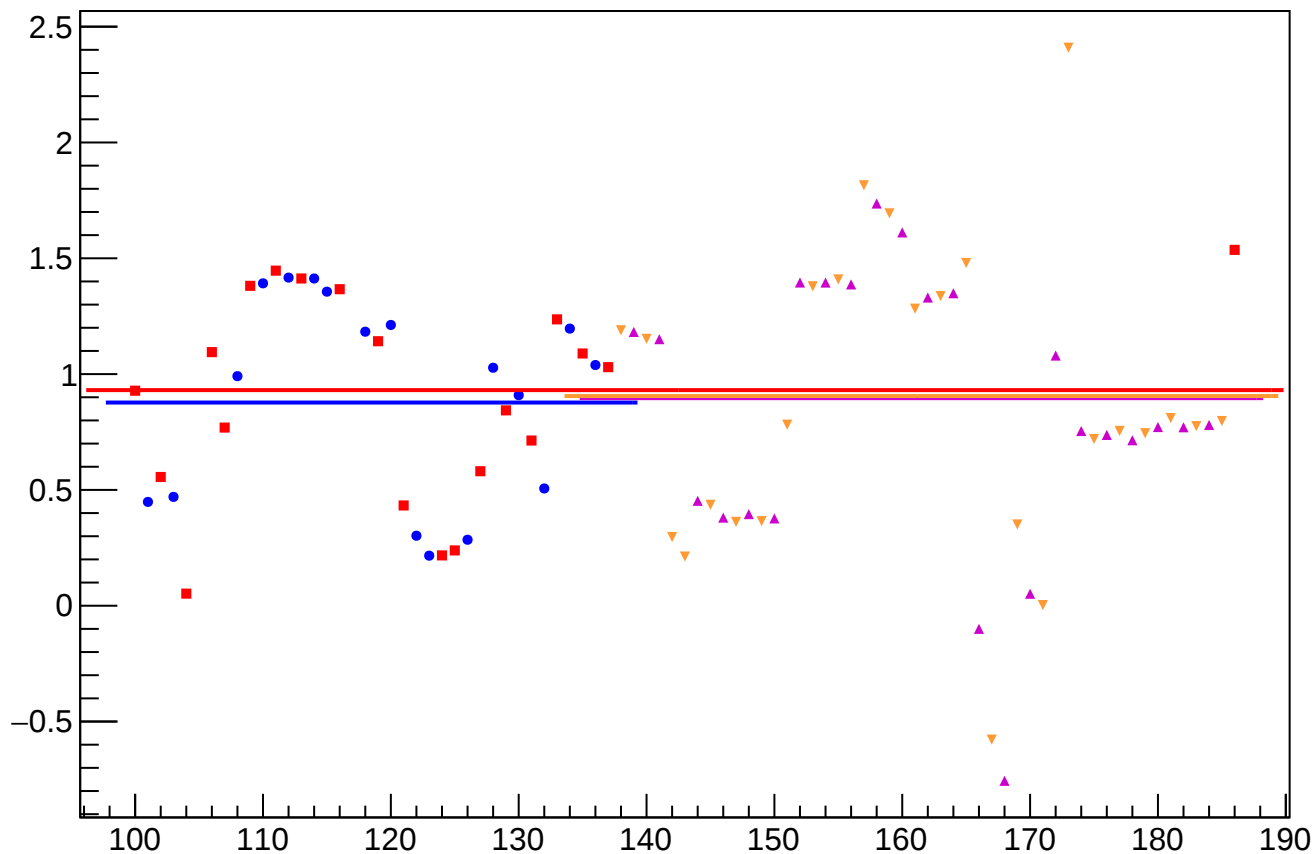
Right: 0.034+/-0.000 χ^2/NDF : 805830.5/36

In: 0.035+/-0.000 χ^2/NDF : 1327989.0/39

Out: 0.035+/-0.000 χ^2/NDF : 965006.4/44

All: 0.035+/-0.000 χ^2/NDF : 2294115.5/84

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.877 $\pm$ 0.000

χ^2 /NDF: 6492530367.5/16

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 0.905 $\pm$ 0.000 χ^2 /NDF: 16537892456.7/36

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.892 $\pm$ 0.000 χ^2 /NDF: 73101772599.9/39

Right Out: 0.931 $\pm$ 0.000

χ^2 /NDF: 9966582338.2/19

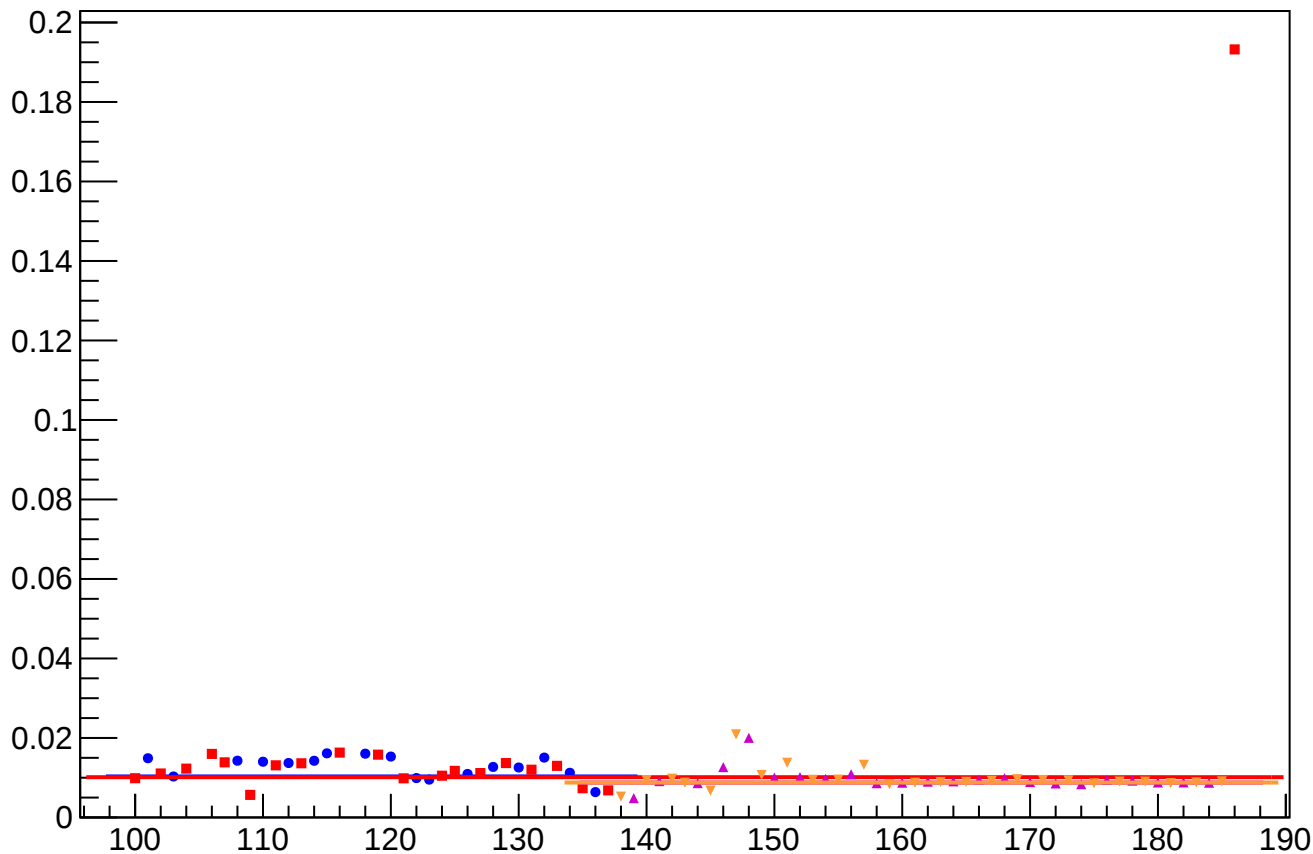
Out: 0.911 $\pm$ 0.000 χ^2 /NDF: 94262042676.7/44

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.902 $\pm$ 0.000 χ^2 /NDF: 167408118976.6

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2/NDF : 1229309.4/16

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 1697568.1/24

Right Out: 0.010 $\pm$ 0.000 χ^2/NDF : 1806231.0/19

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 1607939.0/22

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 3305514.2/47

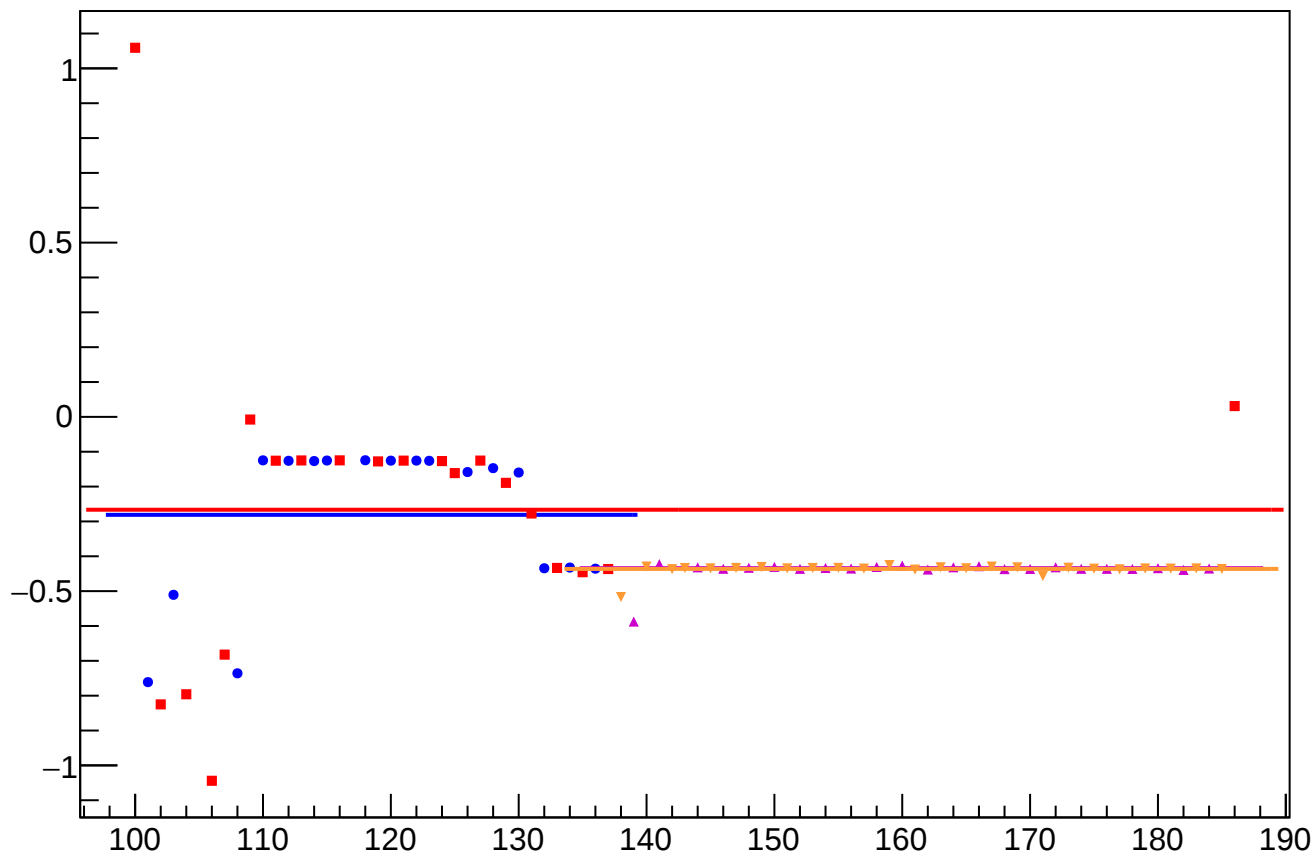
Right: 0.010 $\pm$ 0.000 χ^2/NDF : 3037353.3/36

In: 0.009 $\pm$ 0.000 χ^2/NDF : 3034970.2/39

Out: 0.009 $\pm$ 0.000 χ^2/NDF : 3668849.0/44

All: 0.009 $\pm$ 0.000 χ^2/NDF : 6704038.8/84

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.281 ± 0.000 χ^2/NDF : 905834039.3/16

Left Out: -0.436 ± 0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.266 ± 0.000 χ^2/NDF : 985140062.2/19

Left In: -0.434 ± 0.000 χ^2/NDF : 23984173.0/22

Left: -0.435 ± 0.000 χ^2/NDF : 53122221.7/47

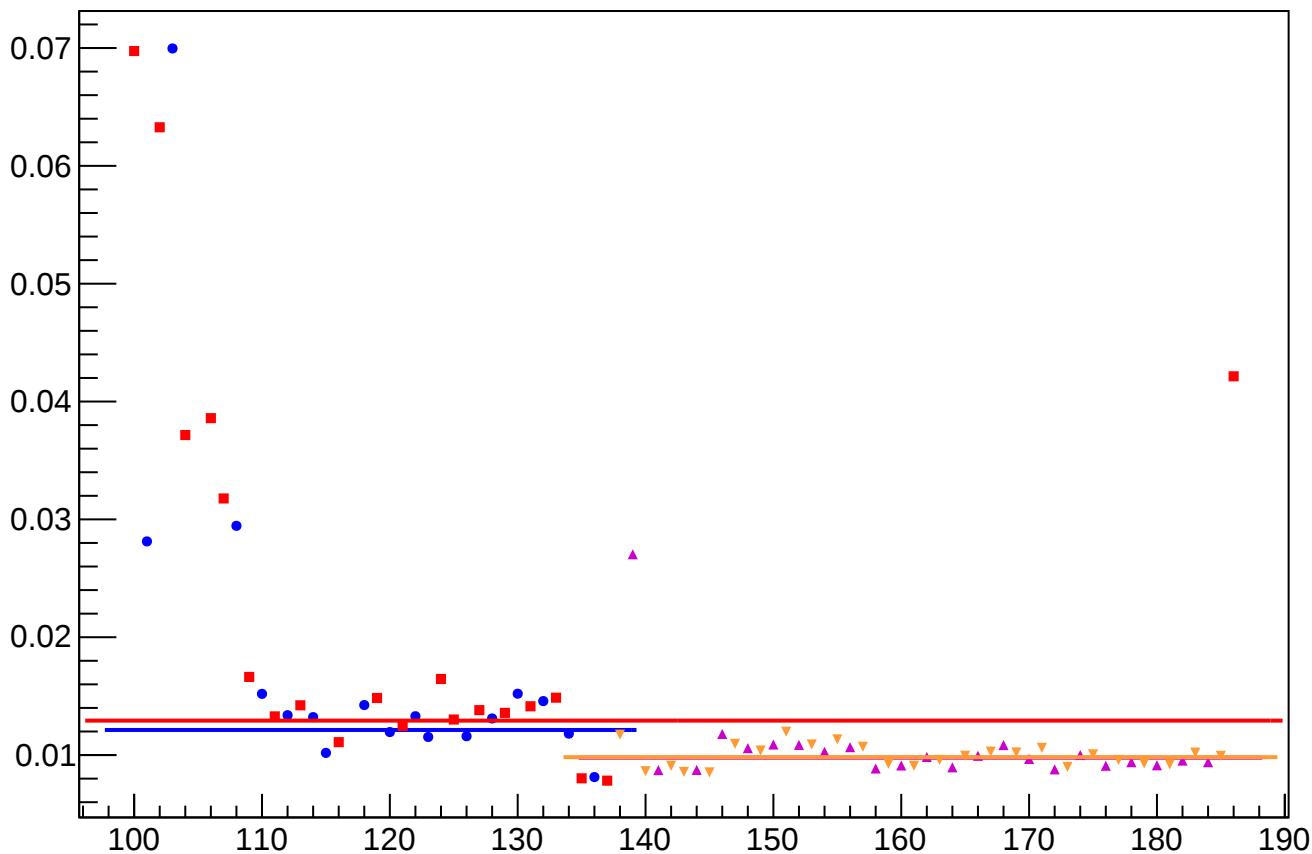
Right: -0.274 ± 0.000 χ^2/NDF : 1894289303.5/36

In: -0.407 ± 0.000 χ^2/NDF : 1548447140.1/39

Out: -0.410 ± 0.000 χ^2/NDF : 1743463361.7/44

All: -0.409 ± 0.000 χ^2/NDF : 3292359154.6/8

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1724778.2/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:269242.6/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2309034.6/19

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

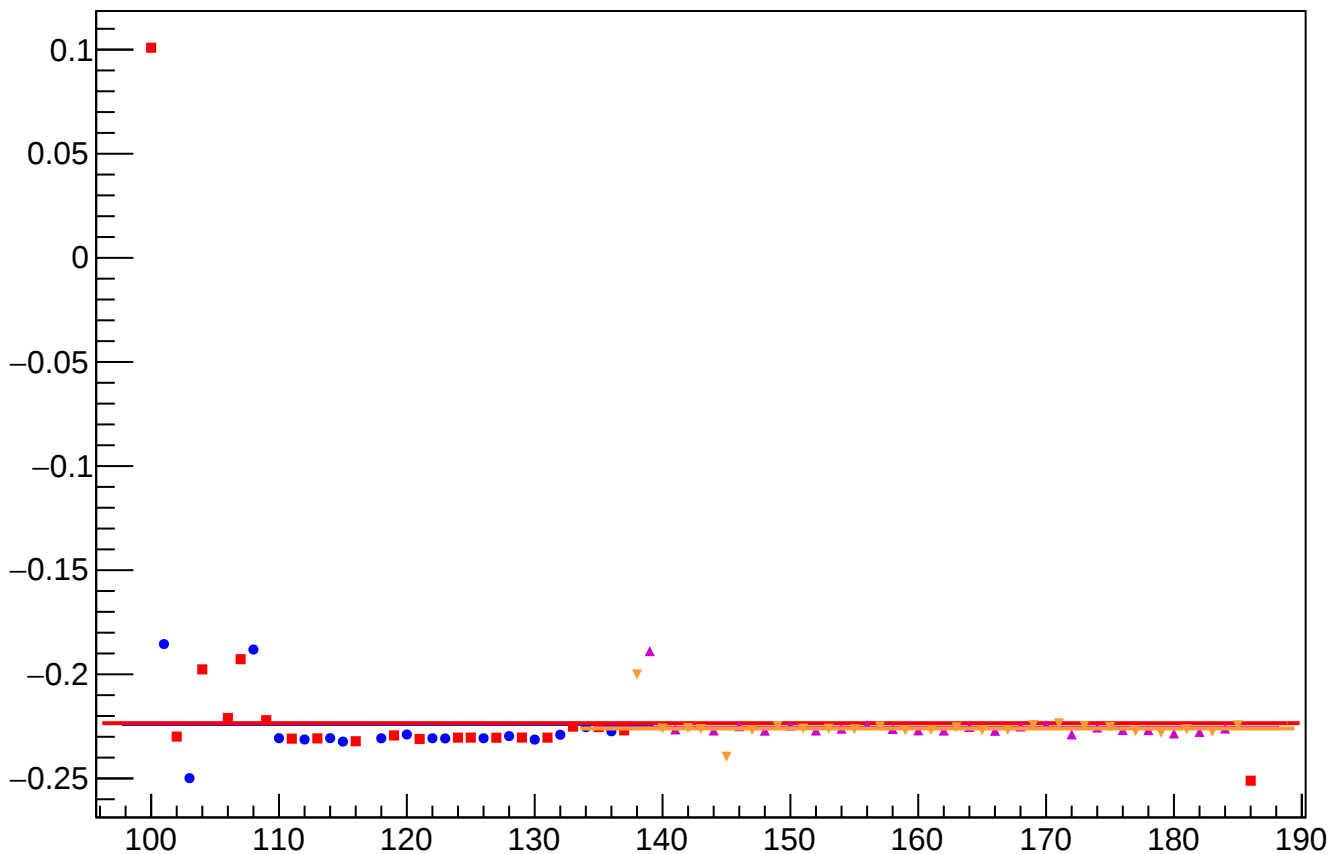
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4053311.8/36

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2765456.5/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:3065712.2/44

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5833940.0/84

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224 ± 0.000 χ^2/NDF : 74308262.0/16

Left Out: -0.226 ± 0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.223 ± 0.000 χ^2/NDF : 168017117.4/19

Left In: -0.226 ± 0.000 χ^2/NDF : 15245251.1/22

Left: -0.226 ± 0.000 χ^2/NDF : 36480793.2/47

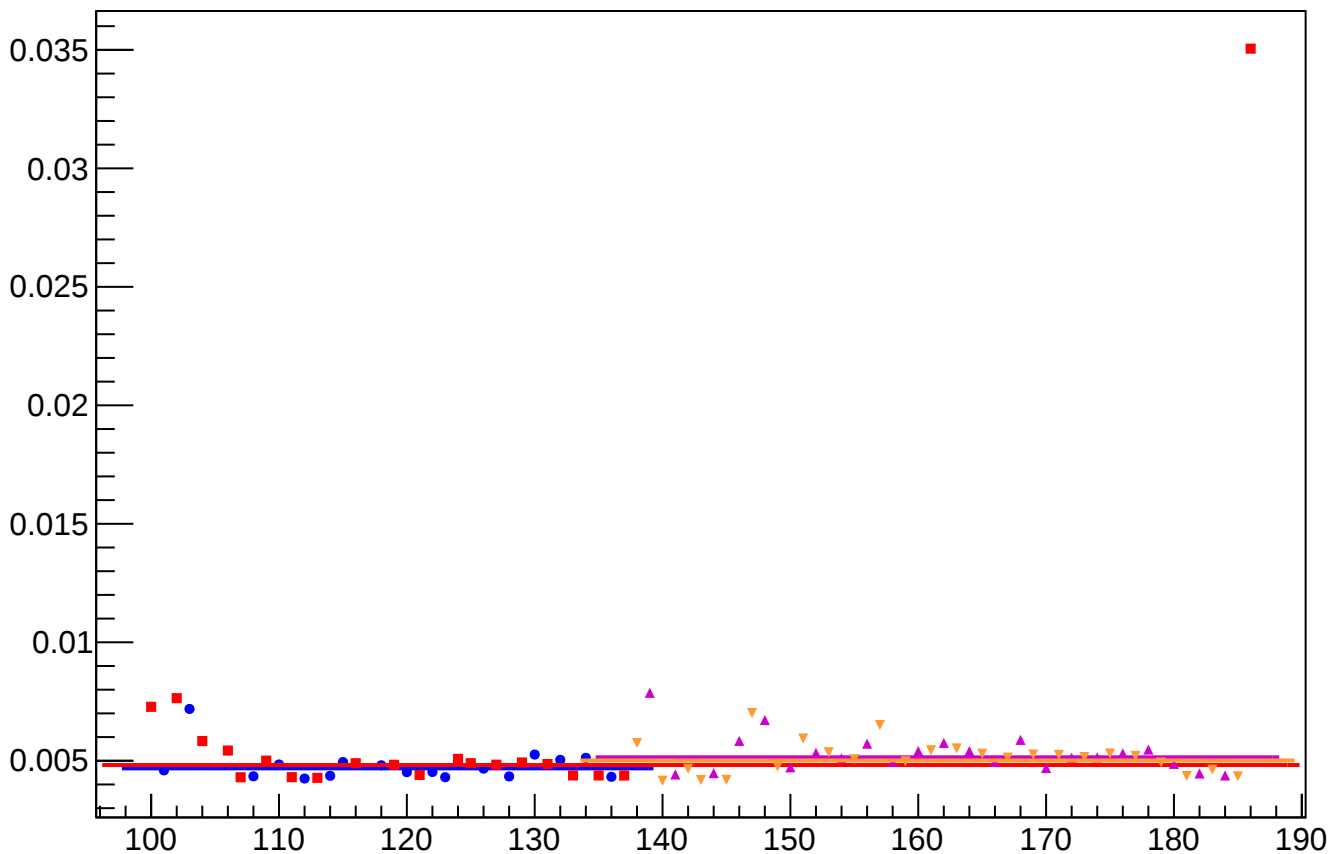
Right: -0.224 ± 0.000 χ^2/NDF : 242342103.5/36

In: -0.225 ± 0.000 χ^2/NDF : 90238959.6/39

Out: -0.225 ± 0.000 χ^2/NDF : 190510790.2/44

All: -0.225 ± 0.000 χ^2/NDF : 280760649.5/84

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 180630.9/16

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 778162.2/19

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

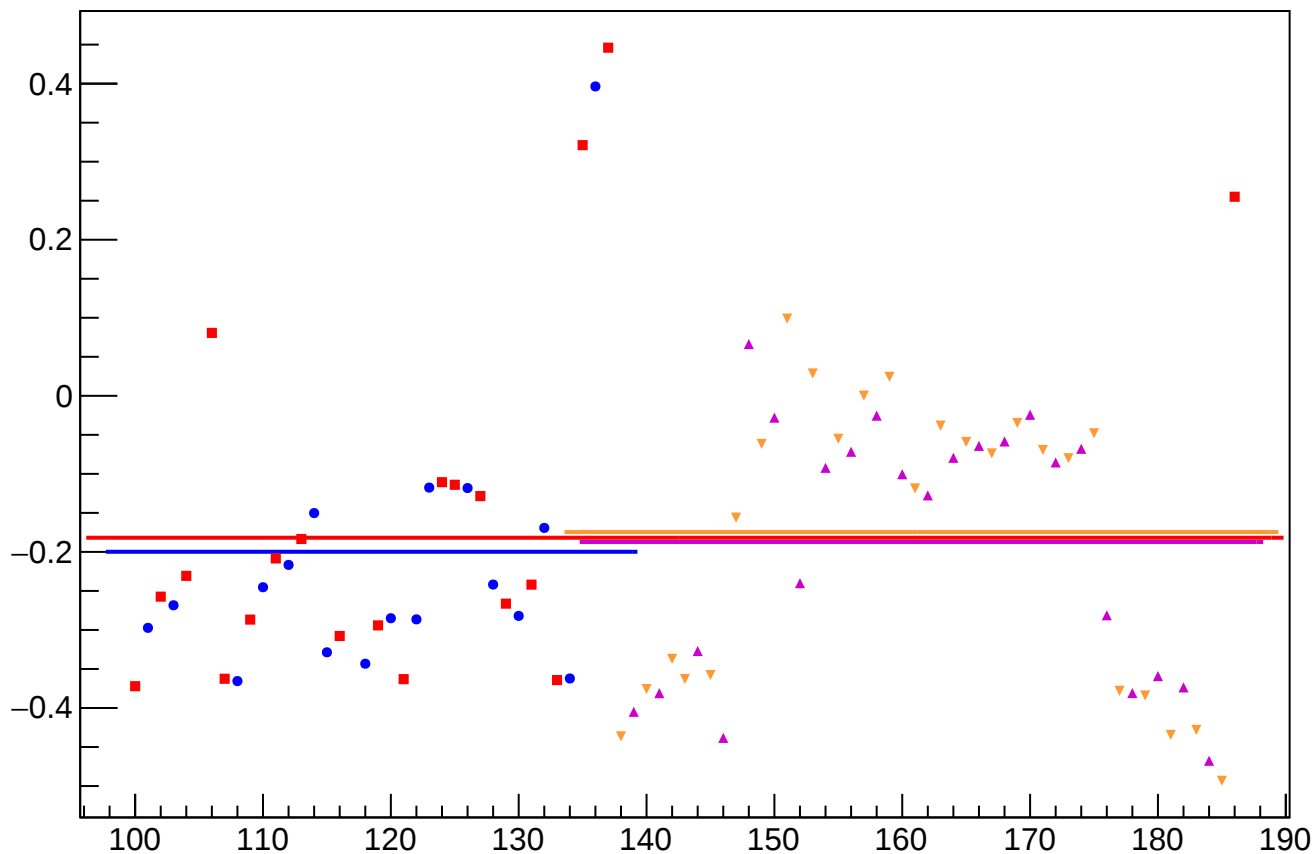
Right: 0.005+/-0.000 χ^2/NDF : 964276.4/36

In: 0.005+/-0.000 χ^2/NDF : 756112.5/39

Out: 0.005+/-0.000 χ^2/NDF : 1323402.2/44

All: 0.005+/-0.000 χ^2/NDF : 2081333.7/84

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5966157035.1/16$

Left Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 18025533236.1/24$

Right Out: -0.182 ± 0.000 $\chi^2/\text{NDF}: 6474186876.8/19$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.181 ± 0.000 $\chi^2/\text{NDF}: 30888184231.6/47$

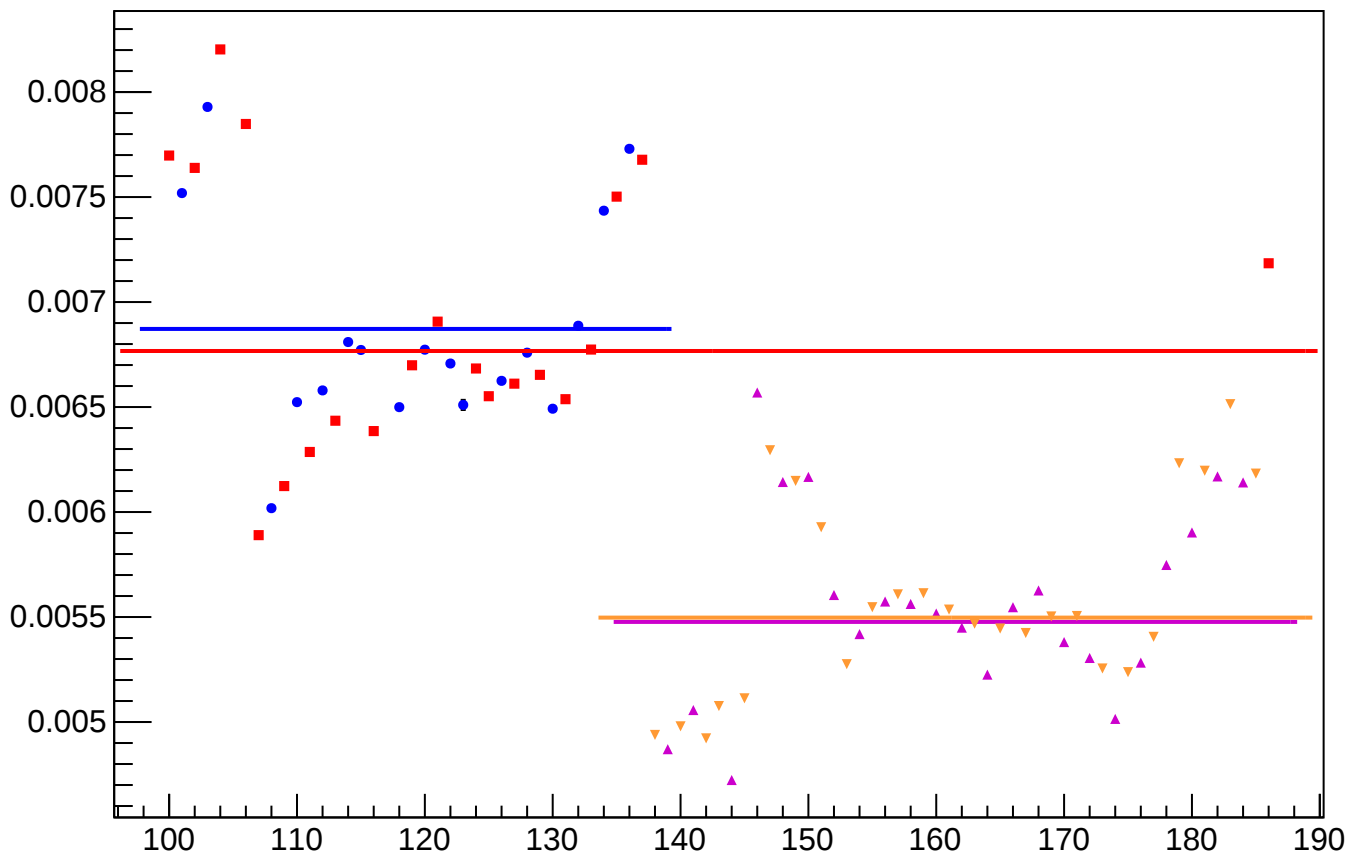
Right: -0.190 ± 0.000 $\chi^2/\text{NDF}: 12464208630.2/36$

In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 18800196004.2/39$

Out: -0.176 ± 0.000 $\chi^2/\text{NDF}: 24506418722.7/44$

All: -0.183 ± 0.000 $\chi^2/\text{NDF}: 43373718376.9/100$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007 ± 0.000 $\chi^2/\text{NDF}: 78685.4/16$

Left Out: 0.005 ± 0.000 $\chi^2/\text{NDF}: 198746.4/24$

Right Out: 0.007 ± 0.000 $\chi^2/\text{NDF}: 108069.6/19$

Left In: 0.005 ± 0.000 $\chi^2/\text{NDF}: 202181.4/22$

Left: 0.005 ± 0.000 $\chi^2/\text{NDF}: 401165.3/47$

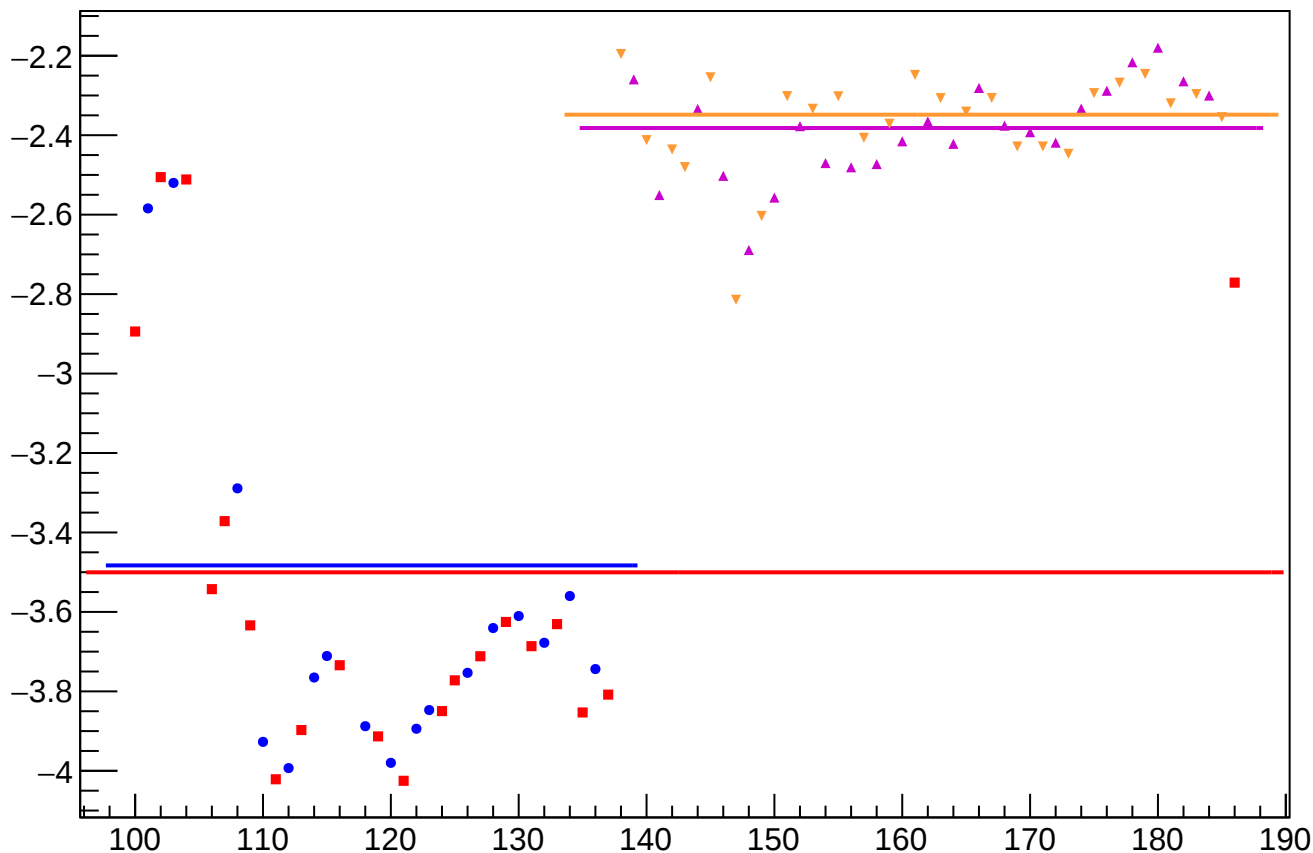
Right: 0.007 ± 0.000 $\chi^2/\text{NDF}: 188383.3/36$

In: 0.006 ± 0.000 $\chi^2/\text{NDF}: 711133.9/39$

Out: 0.006 ± 0.000 $\chi^2/\text{NDF}: 706449.7/44$

All: 0.006 ± 0.000 $\chi^2/\text{NDF}: 1417671.4/84$

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.483+/-0.000 χ^2/NDF : 27157654838.2/16

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.500+/-0.000 χ^2/NDF : 27982150950.8/19

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

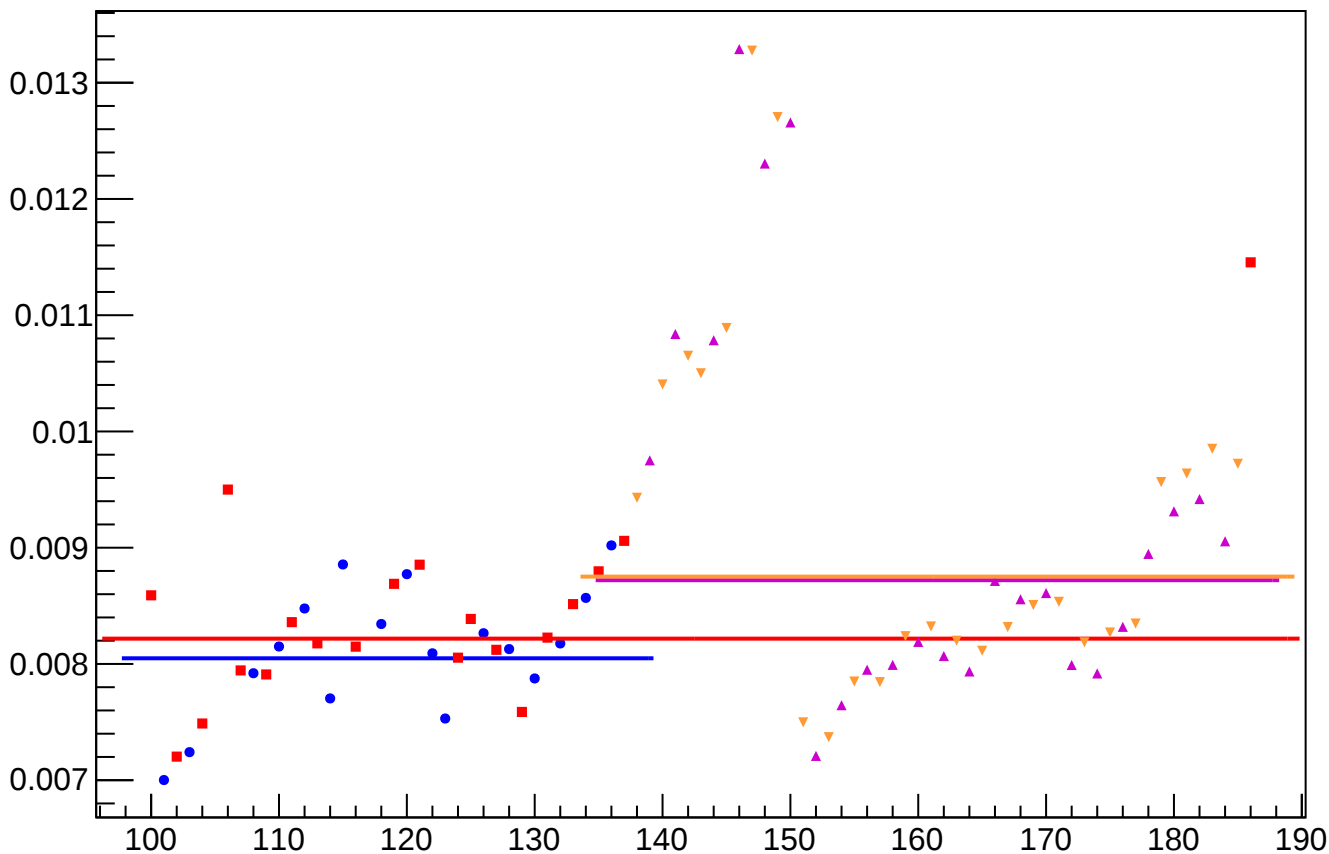
Right: -3.492+/-0.000 χ^2/NDF : 55155274188.4/36

In: -2.734+/-0.000 χ^2/NDF : 112054853544.7/39

Out: -2.715+/-0.000 χ^2/NDF : 125108463285.1/44

All: -2.724+/-0.000 χ^2/NDF : 237219030941.6

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 72176.4/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 663672.8/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 118030.4/19

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF: 747867.0/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 1411749.0/47

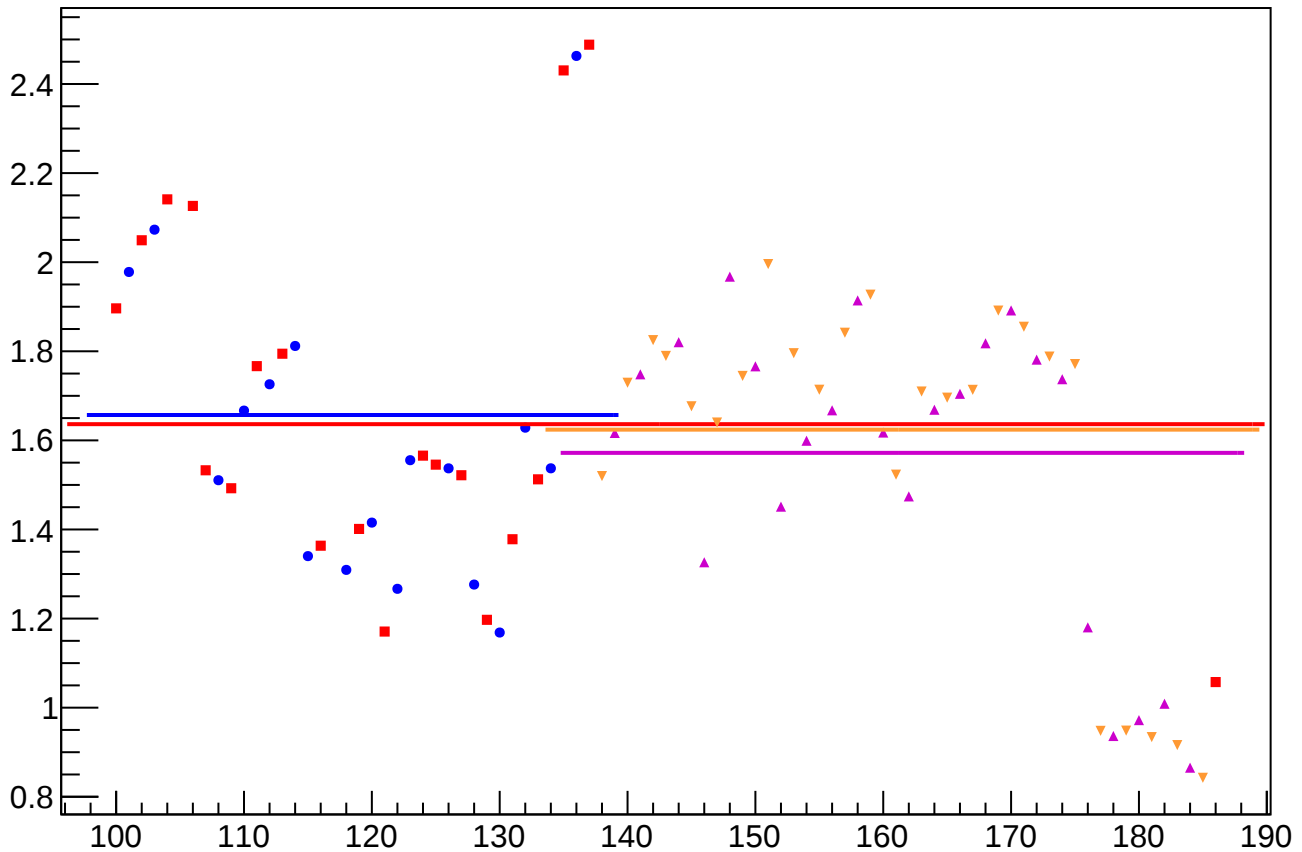
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 193138.0/36

In: 0.009 $\pm$ 0.000 χ^2 /NDF: 881545.7/39

Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 822460.4/44

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 1705845.3/84

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657 $\pm$ 0.000 χ^2/NDF : 6432420267.9/16

Left Out: 1.624 $\pm$ 0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.636 $\pm$ 0.000 χ^2/NDF : 6693390100.6/19

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

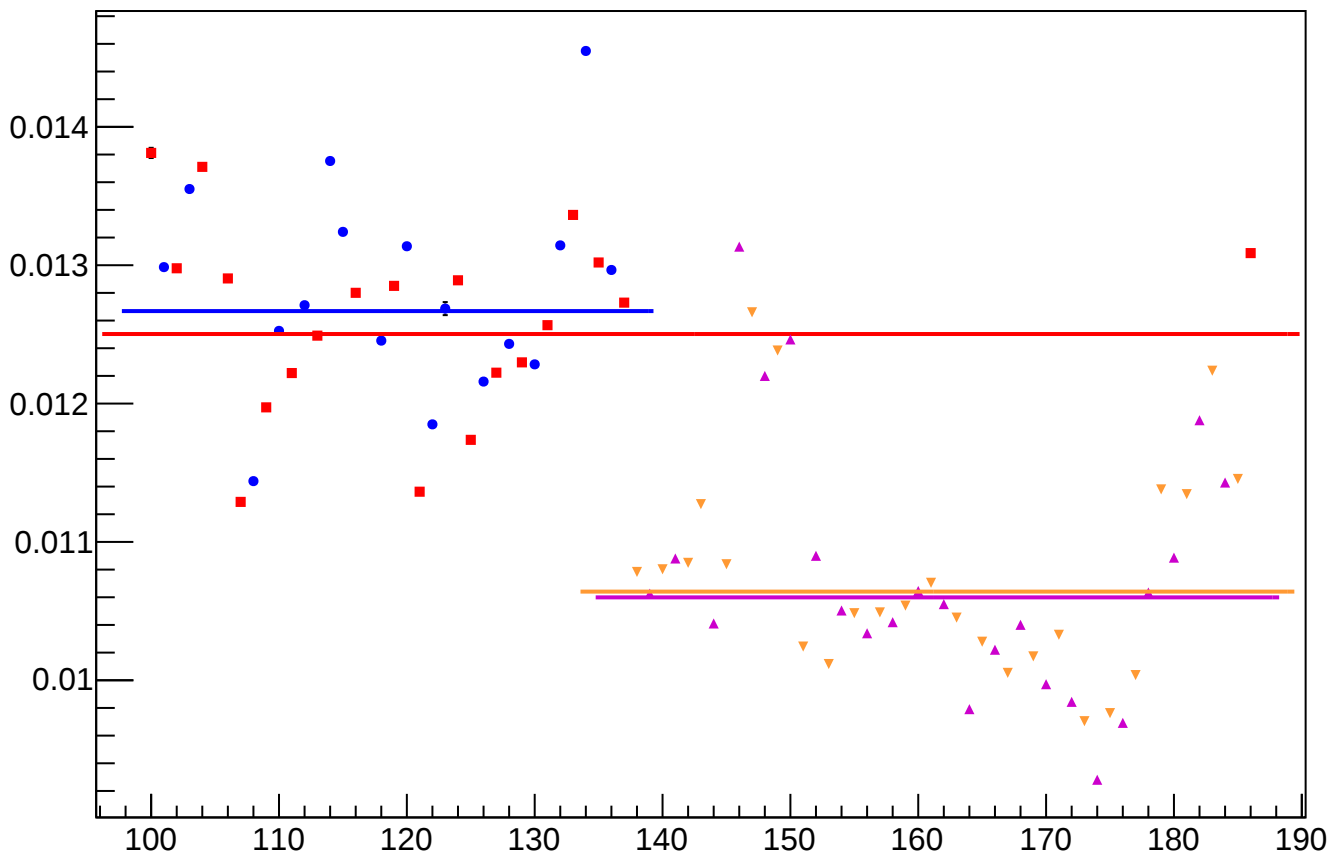
Right: 1.646 $\pm$ 0.000 χ^2/NDF : 13134984301.6/36

In: 1.590 $\pm$ 0.000 χ^2/NDF : 20893525666.7/39

Out: 1.627 $\pm$ 0.000 χ^2/NDF : 23329890086.8/44

All: 1.609 $\pm$ 0.000 χ^2/NDF : 44353863432.8/8

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31725.8/16

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 40095.5/19

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

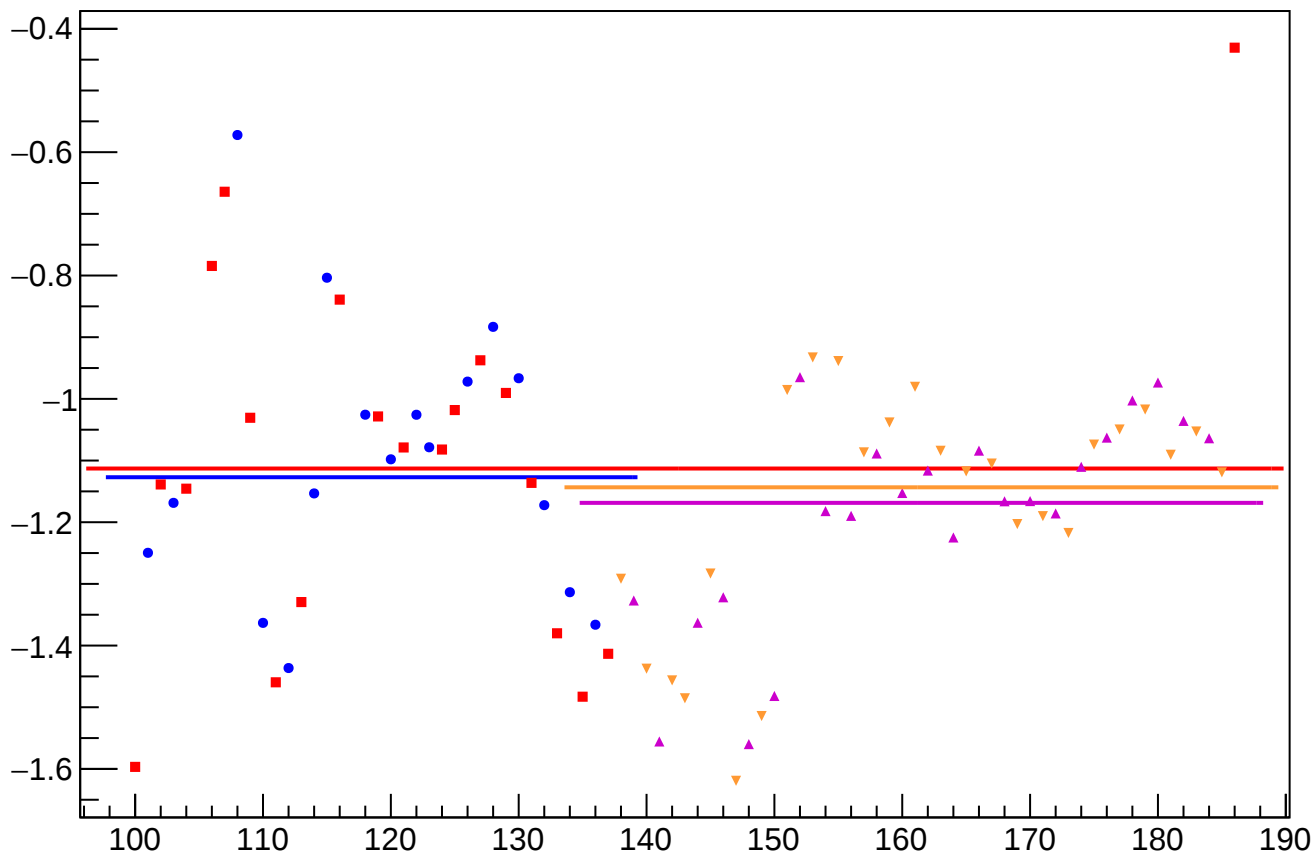
Right: 0.013+/-0.000 χ^2/NDF : 73011.8/36

In: 0.011+/-0.000 χ^2/NDF :509684.4/39

Out: 0.011+/-0.000 χ^2/NDF :447221.4/44

All: 0.011+/-0.000 χ^2/NDF : 956986.4/84

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.127 ± 0.000 $\chi^2/\text{NDF}: 3546179478.6/16$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -1.113 ± 0.000 $\chi^2/\text{NDF}: 4963804302.9/19$

Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

Left: -1.156 ± 0.000 $\chi^2/\text{NDF}: 14424995220.9/47$

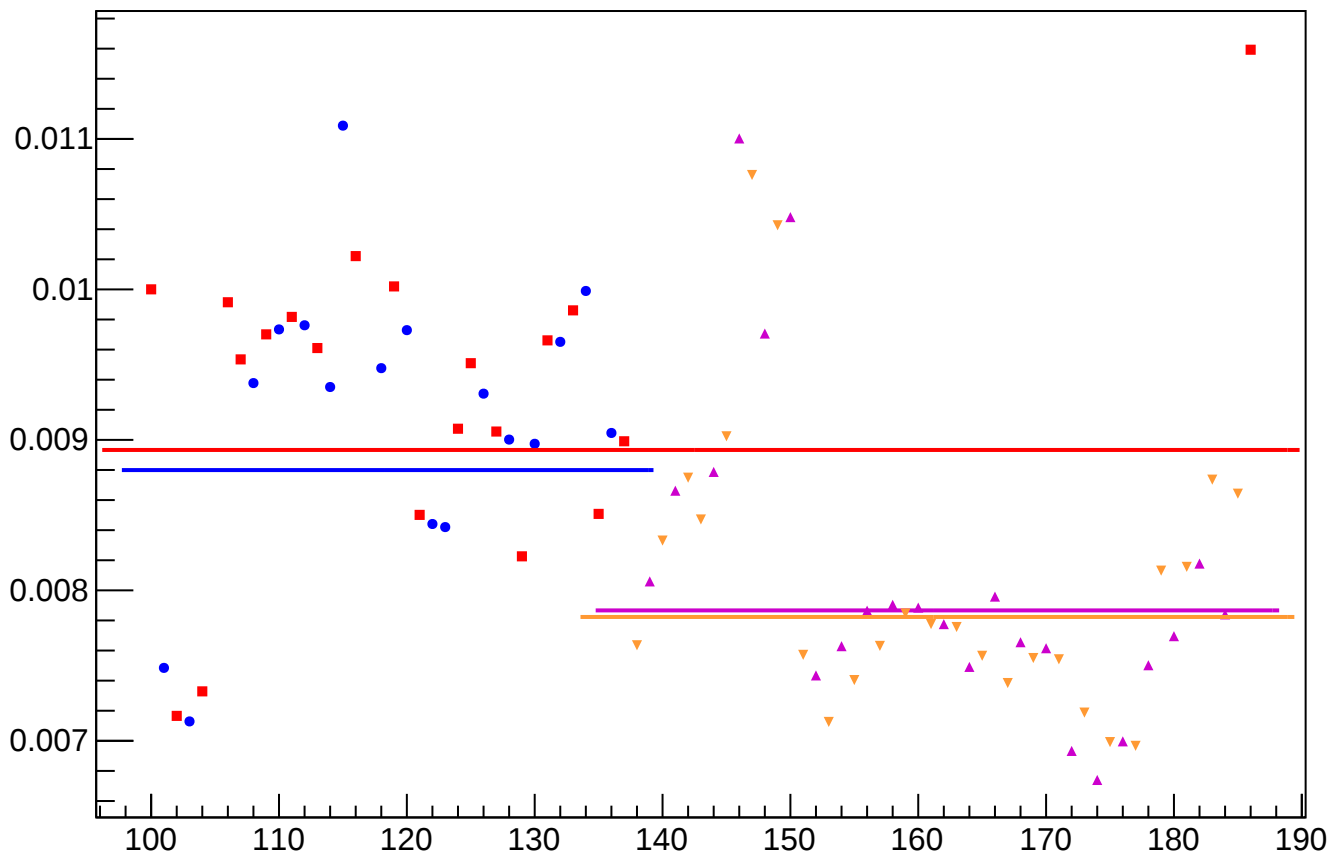
Right: -1.120 ± 0.000 $\chi^2/\text{NDF}: 8518395001.6/36$

In: -1.159 ± 0.000 $\chi^2/\text{NDF}: 10016669125.0/39$

Out: -1.136 ± 0.000 $\chi^2/\text{NDF}: 13001692714.4/44$

All: -1.147 ± 0.000 $\chi^2/\text{NDF}: 23108364412.4/100$

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151524.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 336387.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 213184.7/19

Left In: 0.008+/-0.000 χ^2/NDF : 379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

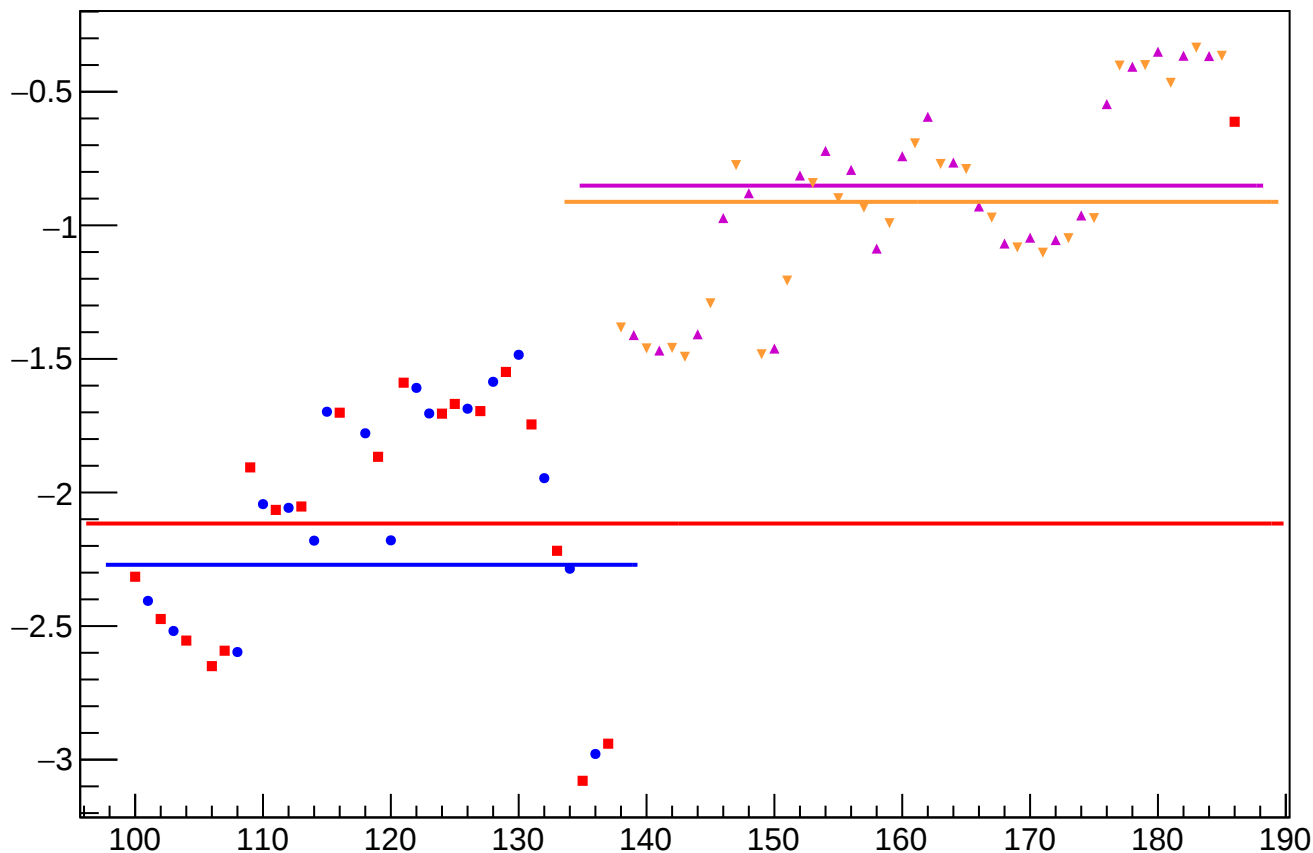
Right: 0.009+/-0.000 χ^2/NDF : 366217.4/36

In: 0.008+/-0.000 χ^2/NDF : 640088.7/39

Out: 0.008+/-0.000 χ^2/NDF : 712943.0/44

All: 0.008+/-0.000 χ^2/NDF : 1353034.9/84

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.271+/-0.000 χ^2/NDF : 17322622121.9/16

Left Out: -0.912+/-0.000 χ^2/NDF : 49039425818.1/24

Right Out: -2.116+/-0.000 χ^2/NDF : 44694206974.7/19

Left In: -0.851+/-0.000 χ^2/NDF : 46438446008.2/22

Left: -0.882+/-0.000 χ^2/NDF : 96285672564.6/47

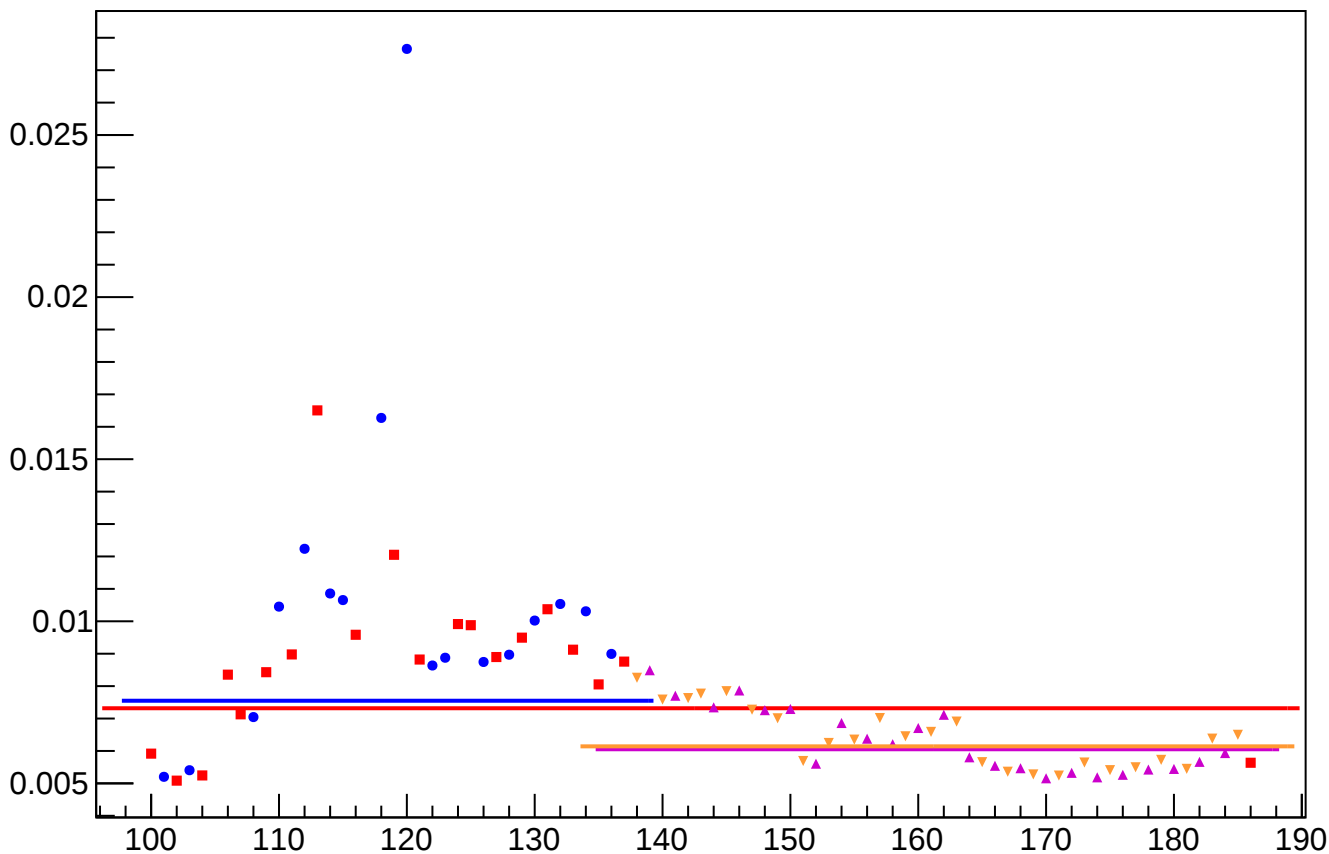
Right: -2.185+/-0.000 χ^2/NDF : 63182465481.0/36

In: -1.090+/-0.000 χ^2/NDF : 211227475890.4/39

Out: -1.150+/-0.000 χ^2/NDF : 221533879852.7/44

All: -1.121+/-0.000 χ^2/NDF : 433734587012.2

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1215131.1/16

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 990259.9/19

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

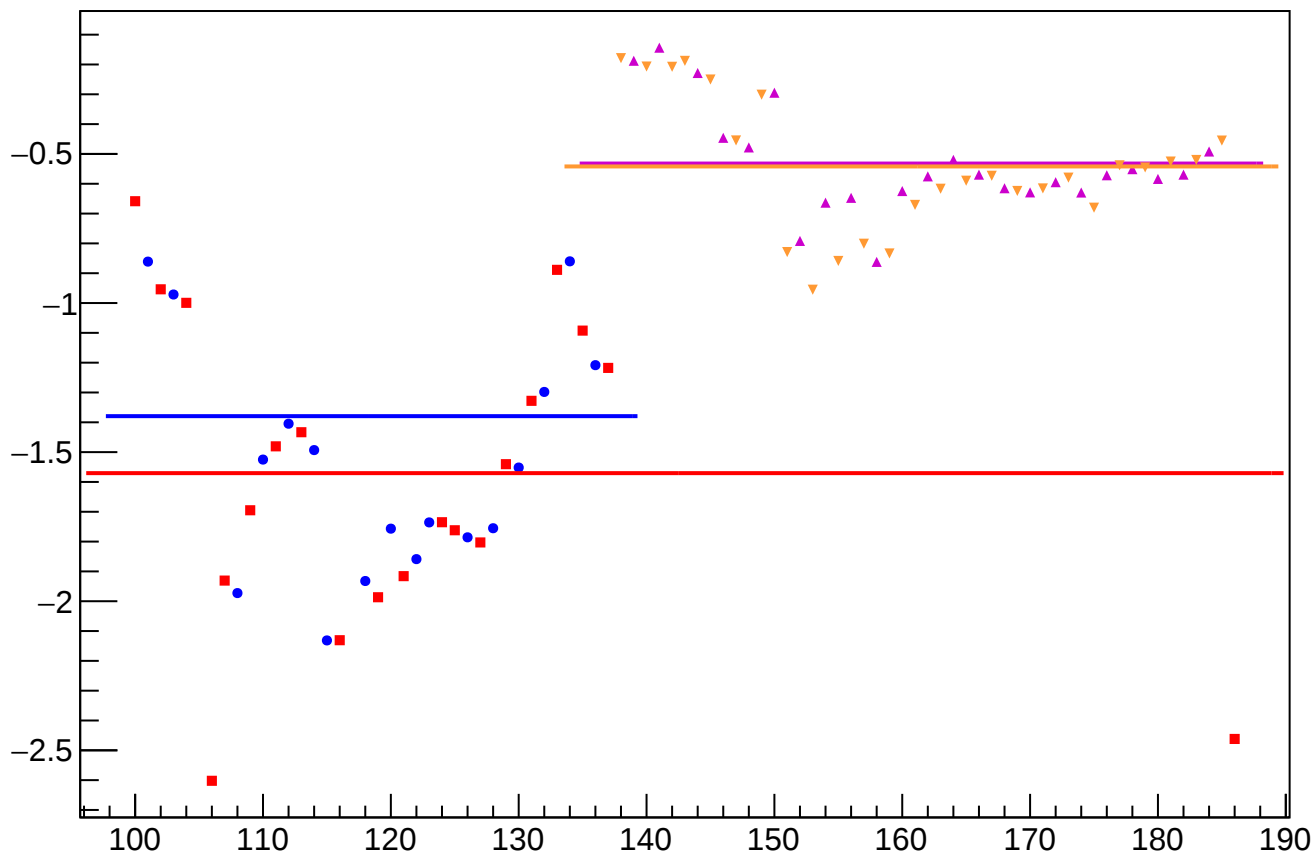
Right: 0.007+/-0.000 χ^2/NDF : 2210641.3/36

In: 0.006+/-0.000 χ^2/NDF : 2240719.4/39

Out: 0.006+/-0.000 χ^2/NDF : 1871544.6/44

All: 0.006+/-0.000 χ^2/NDF : 4114927.4/84

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.379+/-0.000 χ^2/NDF : 19933785465.4/16

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.570+/-0.000 χ^2/NDF : 52171143578.1/19

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

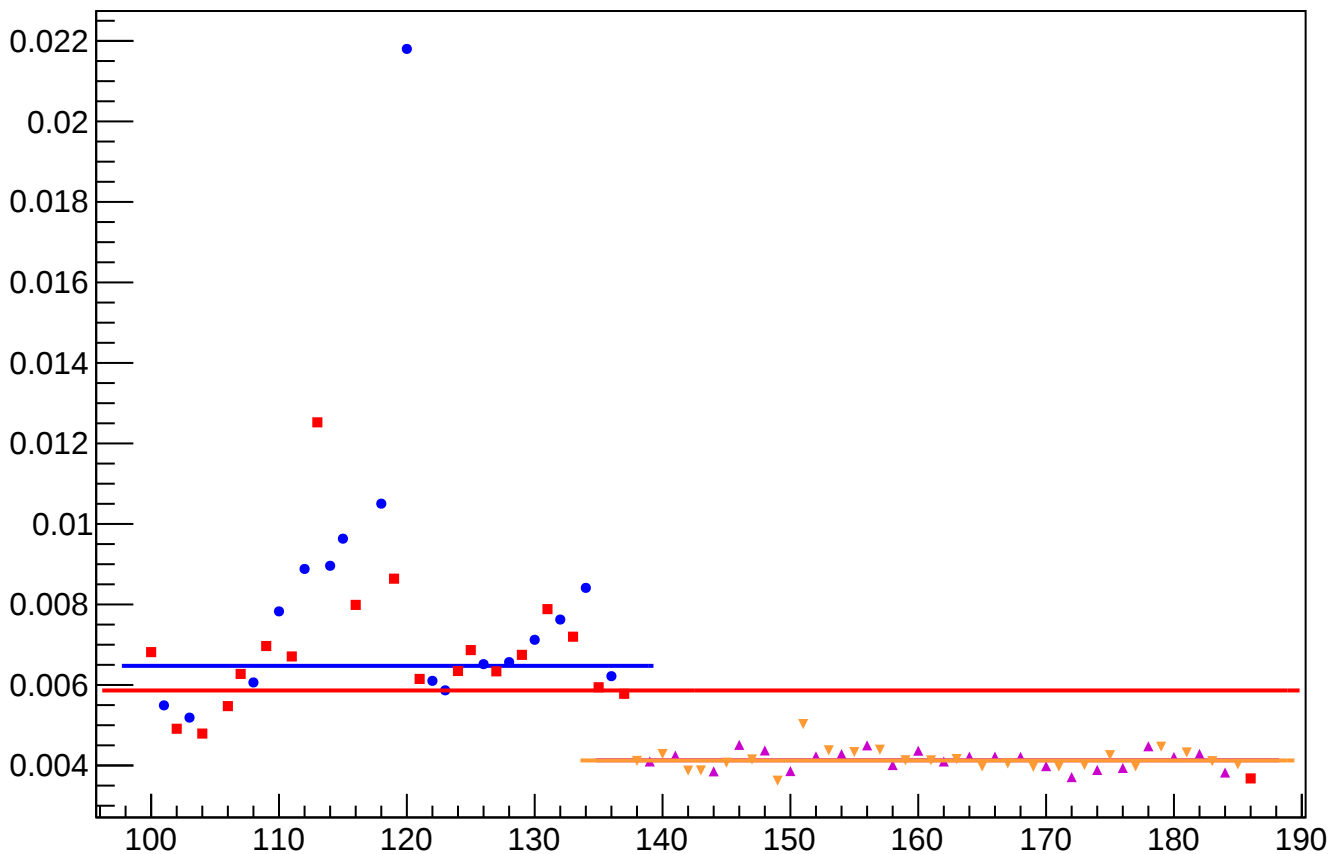
Right: -1.490+/-0.000 χ^2/NDF : 74830638470.9/36

In: -0.635+/-0.000 χ^2/NDF : 132268066693.4/39

Out: -0.697+/-0.000 χ^2/NDF : 257747521083.7/44

All: -0.668+/-0.000 χ^2/NDF : 392157930151.0

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 570434.3/16

Left Out: 0.004+/-0.000 χ^2/NDF : 113033.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 689554.8/19

Left In: 0.004+/-0.000 χ^2/NDF : 93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

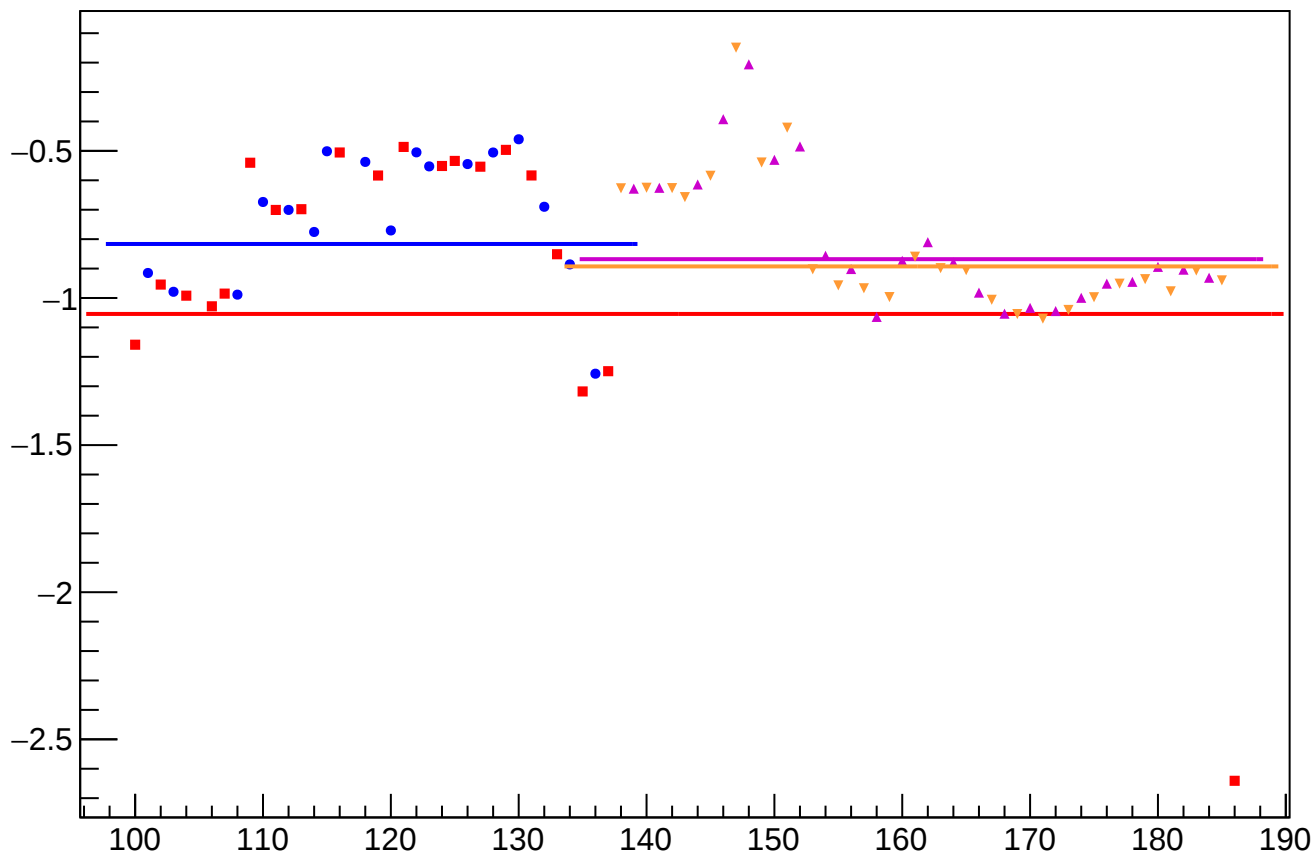
Right: 0.006+/-0.000 χ^2/NDF : 1315777.2/36

In: 0.004+/-0.000 χ^2/NDF : 1914472.7/39

Out: 0.004+/-0.000 χ^2/NDF : 1707698.1/44

All: 0.004+/-0.000 χ^2/NDF : 3623027.6/84

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 $\pm$ 0.000 χ^2/NDF : 14108272810.0/16

Left Out: -0.893 $\pm$ 0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.054 $\pm$ 0.000 χ^2/NDF : 114925443180.0/19

Left In: -0.868 $\pm$ 0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880 $\pm$ 0.000 χ^2/NDF : 84980637247.0/47

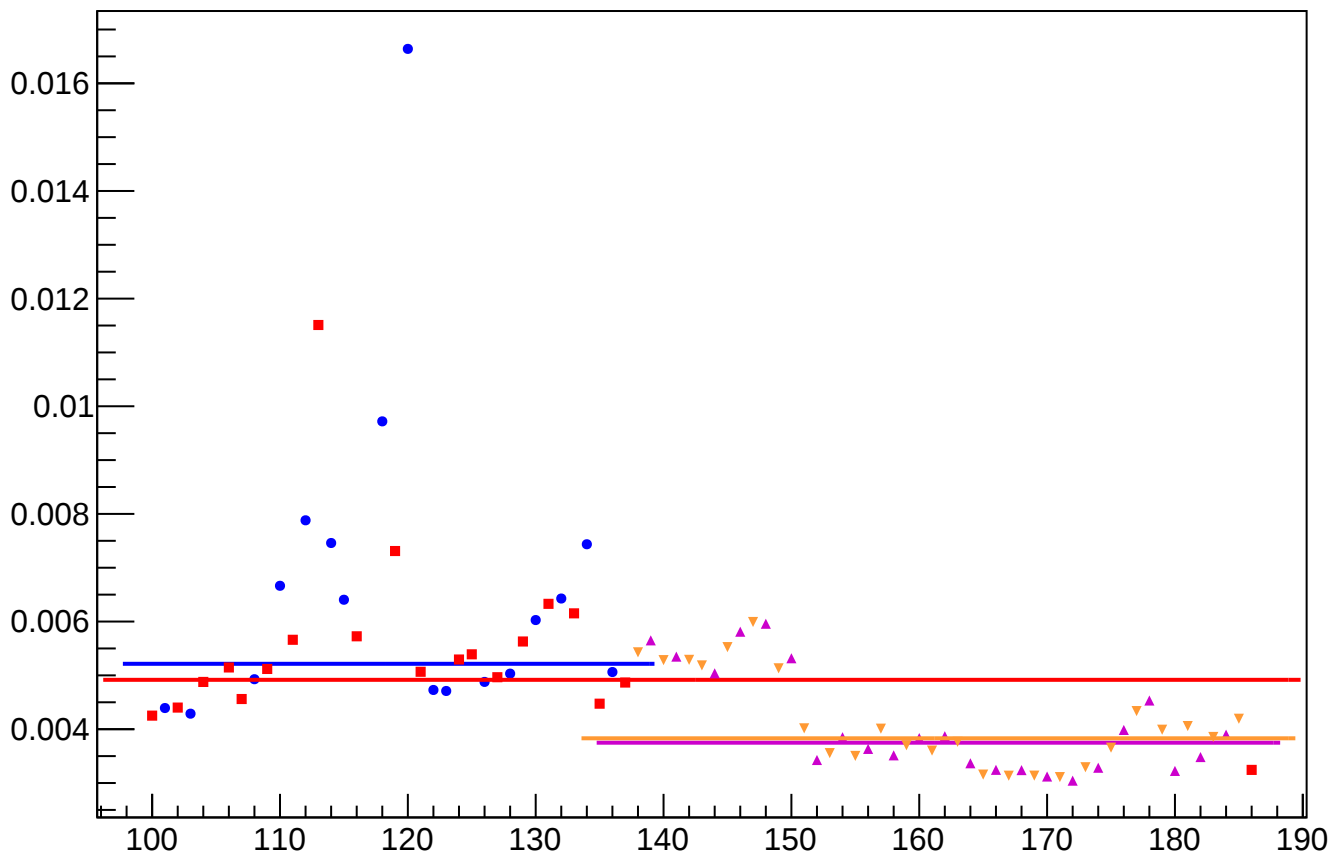
Right: -0.951 $\pm$ 0.000 χ^2/NDF : 135300406667.8/36

In: -0.860 $\pm$ 0.000 χ^2/NDF : 58405201980.4/39

Out: -0.923 $\pm$ 0.000 χ^2/NDF : 161142965881.8/44

All: -0.892 $\pm$ 0.000 χ^2/NDF : 222152153050.3

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 662832.6/16

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.005+/-0.000 χ^2/NDF : 577953.5/19

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

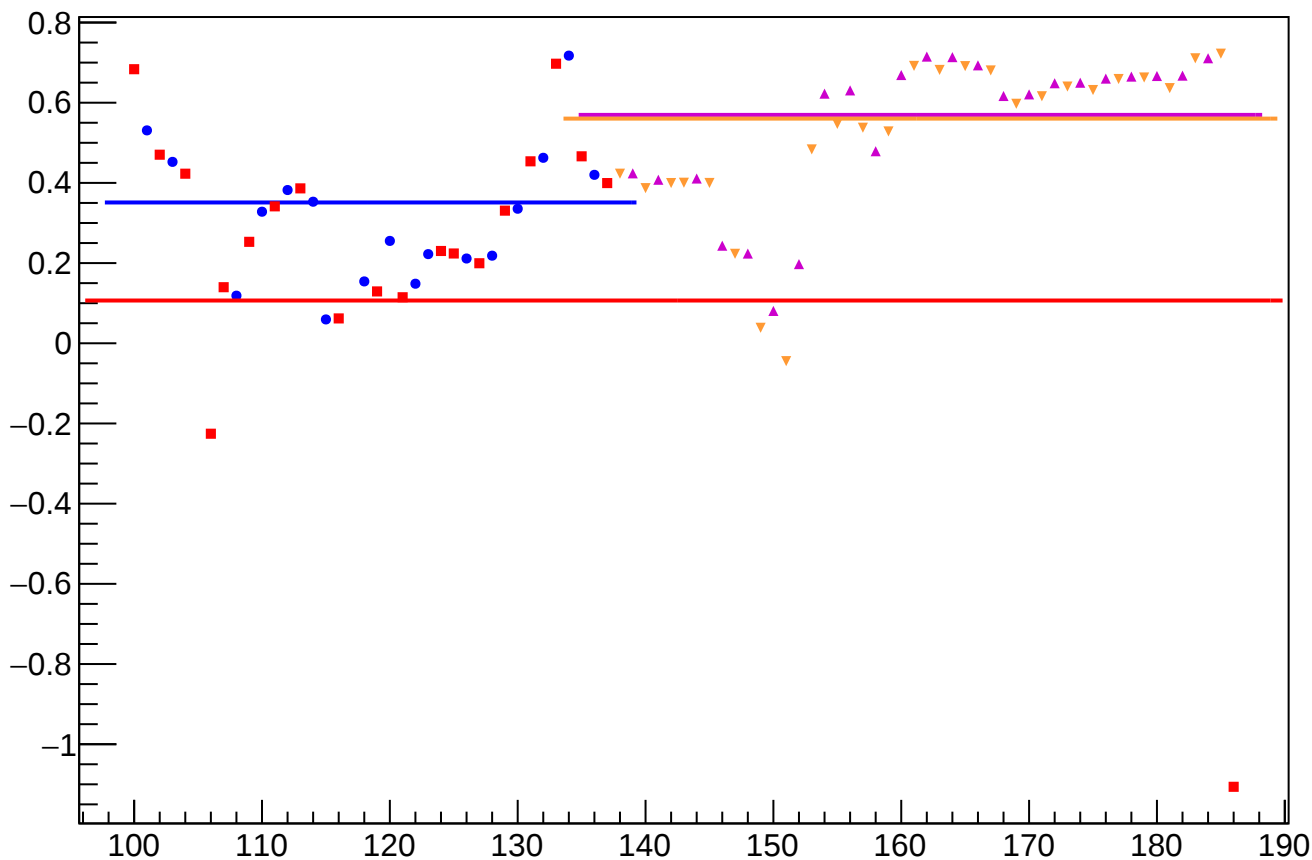
Right: 0.005+/-0.000 χ^2/NDF : 1260432.0/36

In: 0.004+/-0.000 χ^2/NDF :2667316.1/39

Out: 0.004+/-0.000 χ^2/NDF :2248930.6/44

All: 0.004+/-0.000 χ^2/NDF : 4921728.9/84

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7385246200.8/16

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: 0.107+/-0.000 χ^2/NDF : 139125417363.4/19

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

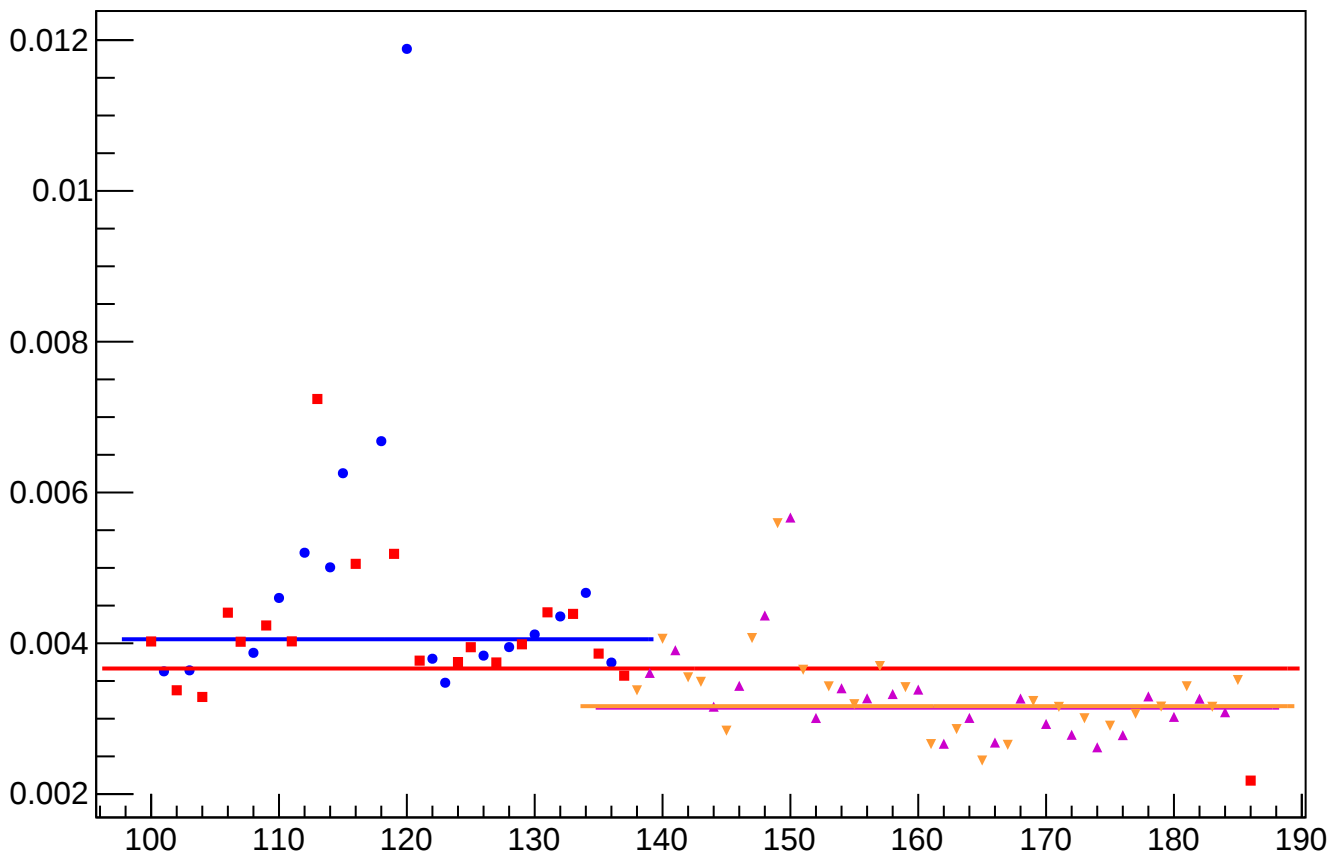
Right: 0.211+/-0.000 χ^2/NDF : 158366796185.3/36

In: 0.530+/-0.000 χ^2/NDF : 62979079372.7/39

Out: 0.459+/-0.000 χ^2/NDF : 258722554833.8/44

All: 0.493+/-0.000 χ^2/NDF : 326706223193.9

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 453717.7/16

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 641899.4/19

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

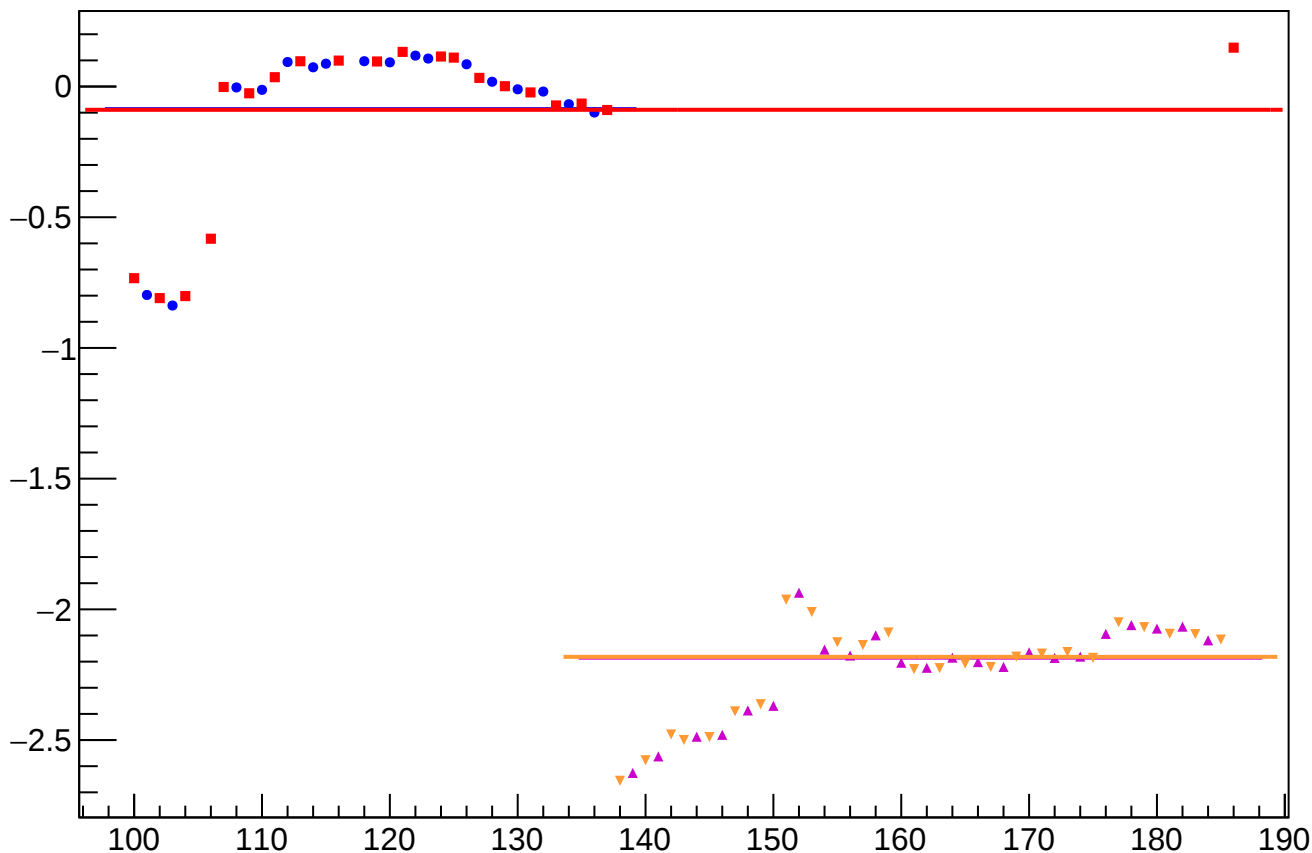
Right: 0.004+/-0.000 χ^2/NDF : 1155282.3/36

In: 0.003+/-0.000 χ^2/NDF : 1635477.0/39

Out: 0.003+/-0.000 χ^2/NDF : 1567143.8/44

All: 0.003+/-0.000 χ^2/NDF : 3204840.6/84

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4986216359.8/16

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: -0.089+/-0.000 χ^2/NDF : 5774327081.9/19

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

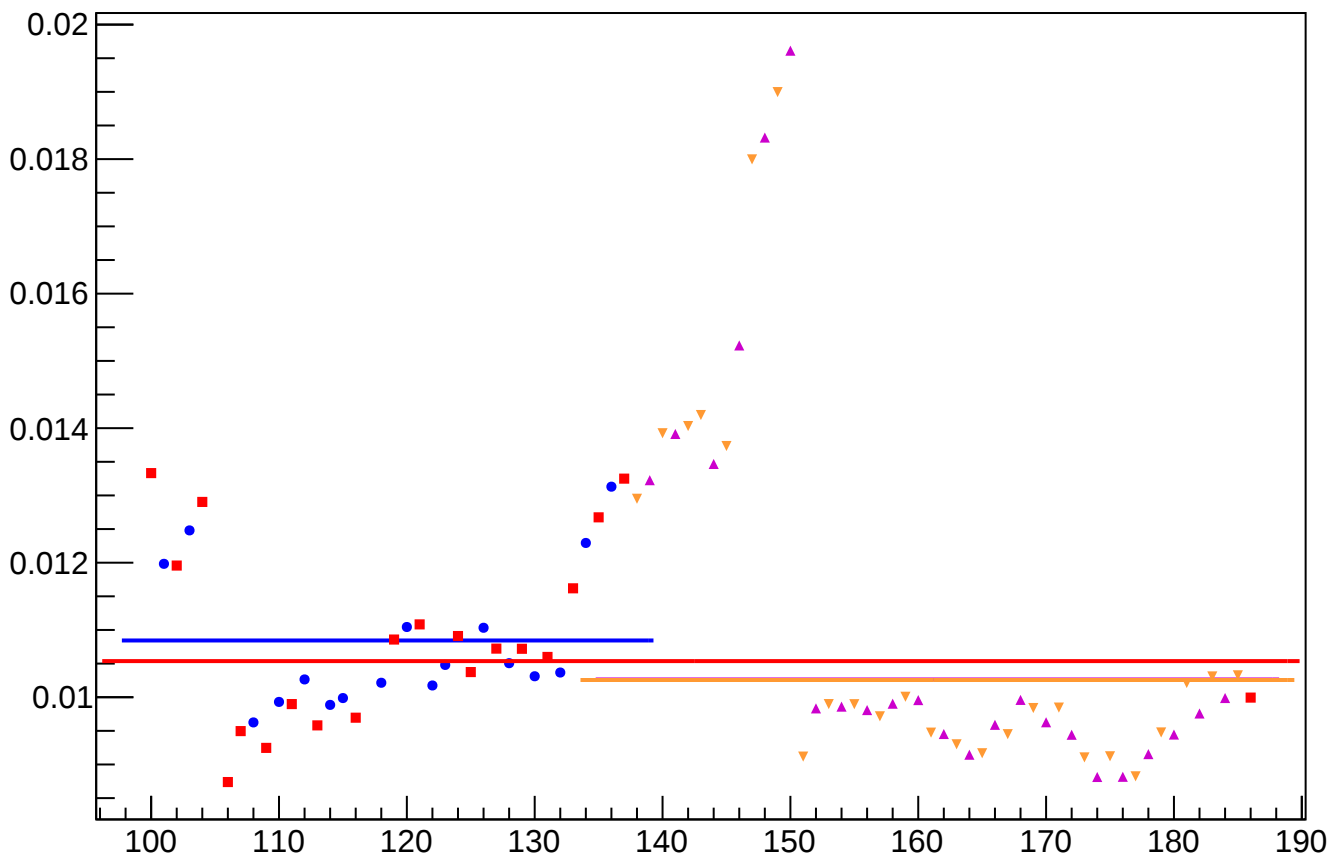
Right: -0.088+/-0.000 χ^2/NDF : 10760732832.2/36

In: -1.632+/-0.000 χ^2/NDF : 190830991623.0/39

Out: -1.589+/-0.000 χ^2/NDF : 218071423816.9/44

All: -1.609+/-0.000 χ^2/NDF : 409116391827.5

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124179.6/16

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 181126.8/19

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

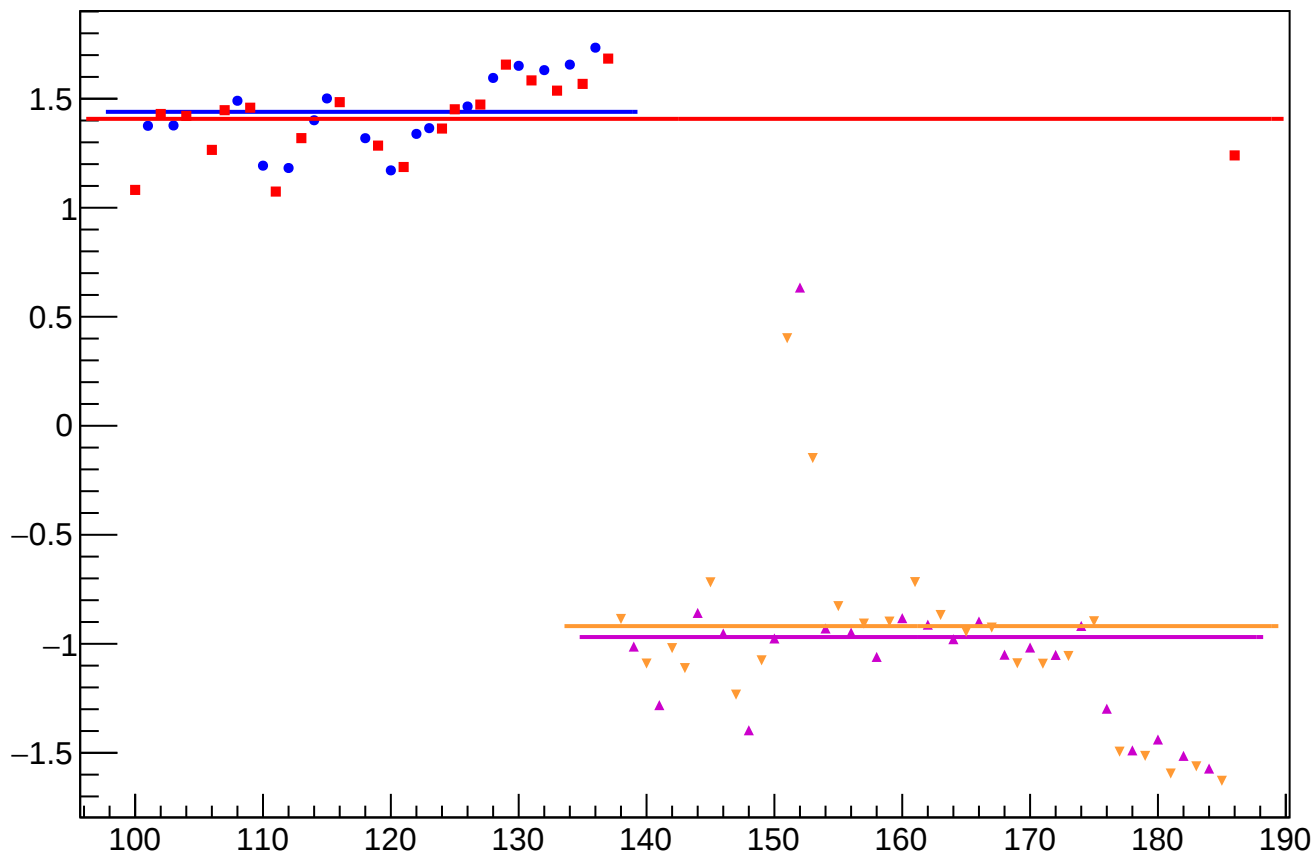
Right: 0.011+/-0.000 χ^2/NDF : 311034.0/36

In: 0.010+/-0.000 χ^2/NDF :1492254.8/39

Out: 0.010+/-0.000 χ^2/NDF :1459251.0/44

All: 0.010+/-0.000 χ^2/NDF : 2952981.0/84

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3439698839.5/16

Left Out: -0.919 $\pm$ 0.000 χ^2 /NDF: 55622252895.8/24

Right Out: 1.408 $\pm$ 0.000 χ^2 /NDF: 2870792047.3/19

Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

Left: -0.943 $\pm$ 0.000 χ^2 /NDF: 110825900215.1/47

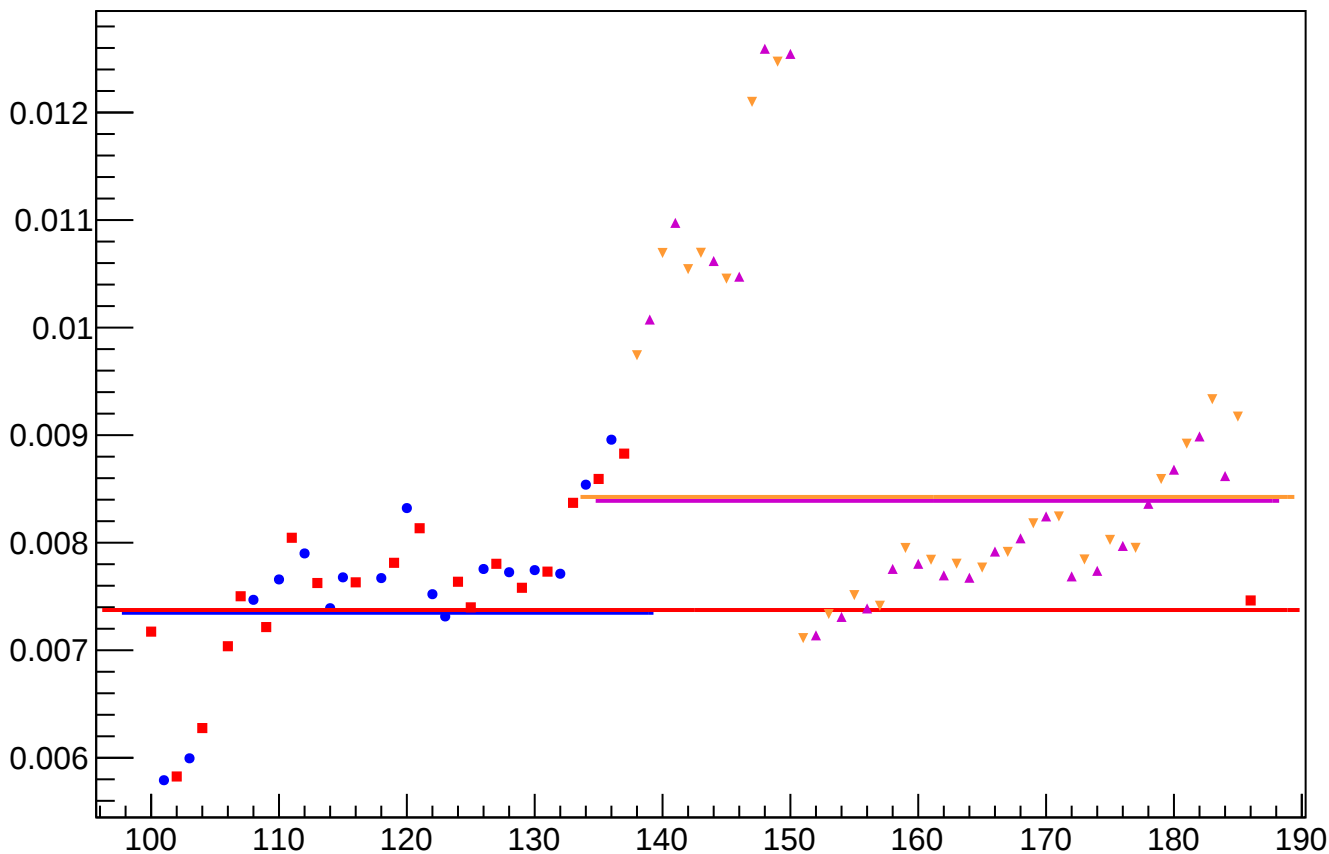
Right: 1.423 $\pm$ 0.000 χ^2 /NDF: 6376759138.7/36

In: -0.158 $\pm$ 0.000 χ^2 /NDF: 526148939000.2/39

Out: -0.105 $\pm$ 0.000 χ^2 /NDF: 535633016932.9/44

All: -0.131 $\pm$ 0.000 χ^2 /NDF: 1062296612418

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228667.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 172531.0/19

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

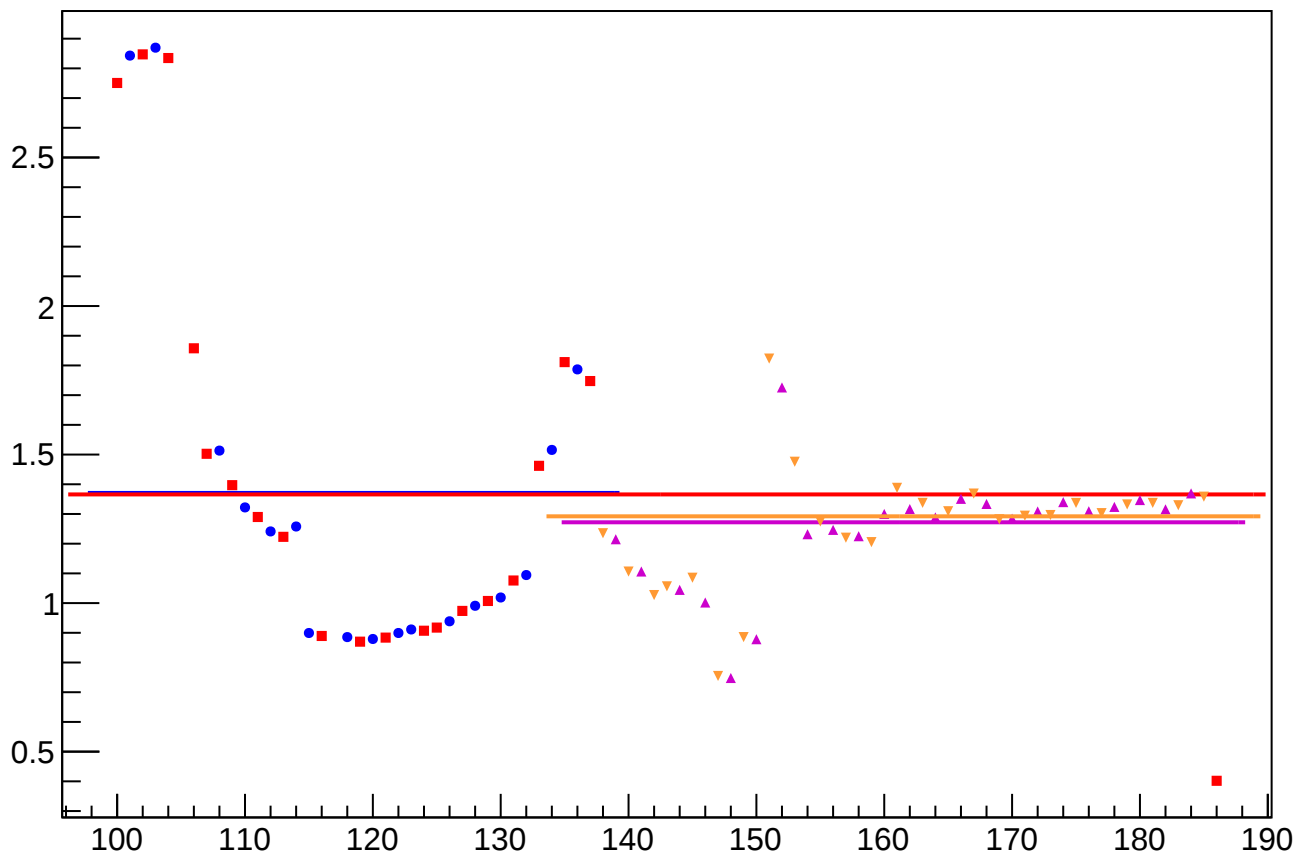
Right: 0.007+/-0.000 χ^2/NDF : 401281.9/36

In: 0.008+/-0.000 χ^2/NDF : 1243256.3/39

Out: 0.008+/-0.000 χ^2/NDF : 1159734.9/44

All: 0.008+/-0.000 χ^2/NDF : 2403125.2/84

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.371 $\pm$ 0.000 χ^2 /NDF: 54119122912.8/16

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.366 $\pm$ 0.000 χ^2 /NDF: 53382083391.8/19

Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2 /NDF: 16930321584.4/47

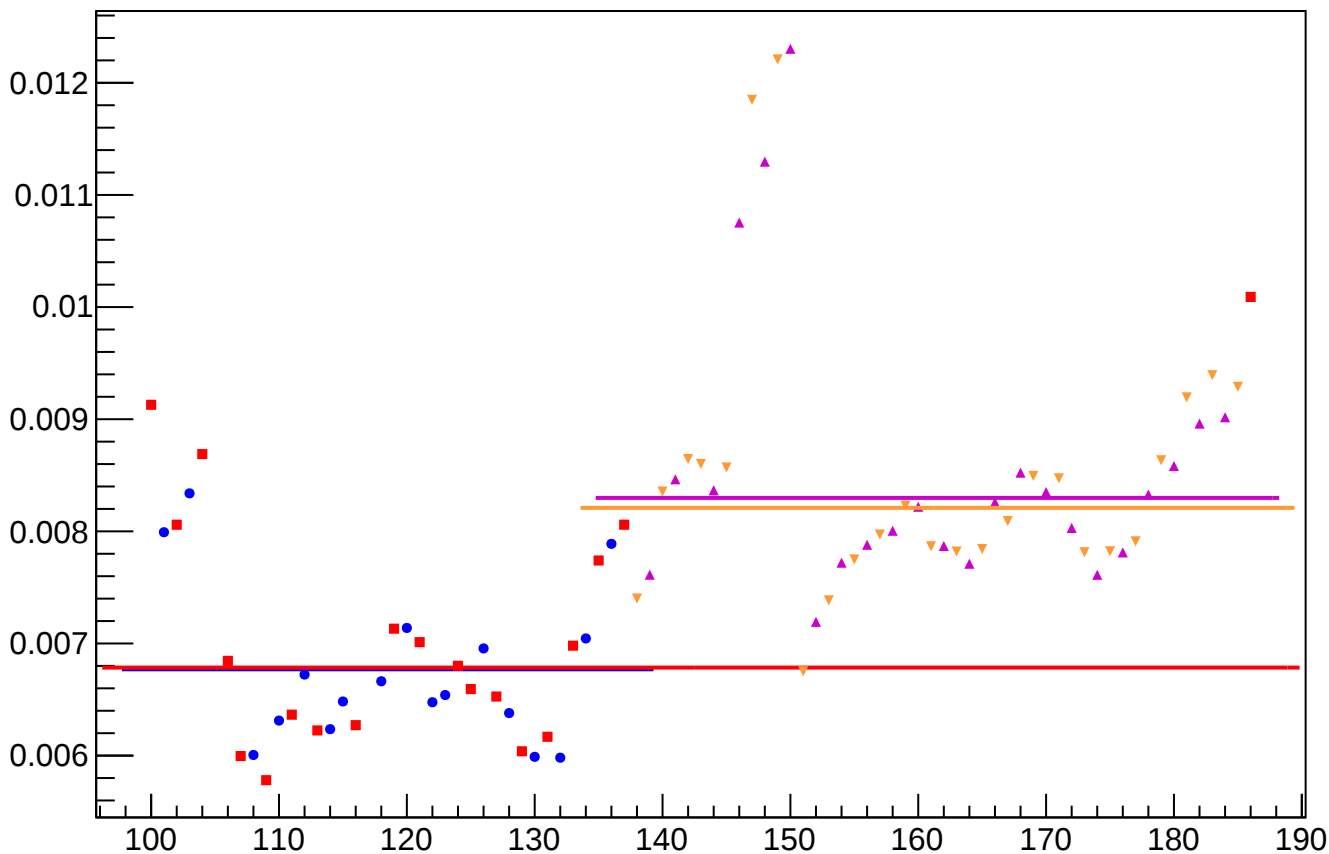
Right: 1.368 $\pm$ 0.000 χ^2 /NDF: 107503083139.0/36

In: 1.309 $\pm$ 0.000 χ^2 /NDF: 62575705535.5/39

Out: 1.320 $\pm$ 0.000 χ^2 /NDF: 63225525956.8/44

All: 1.315 $\pm$ 0.000 χ^2 /NDF: 125826542305.3

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 158743.1/16

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 272698.6/19

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

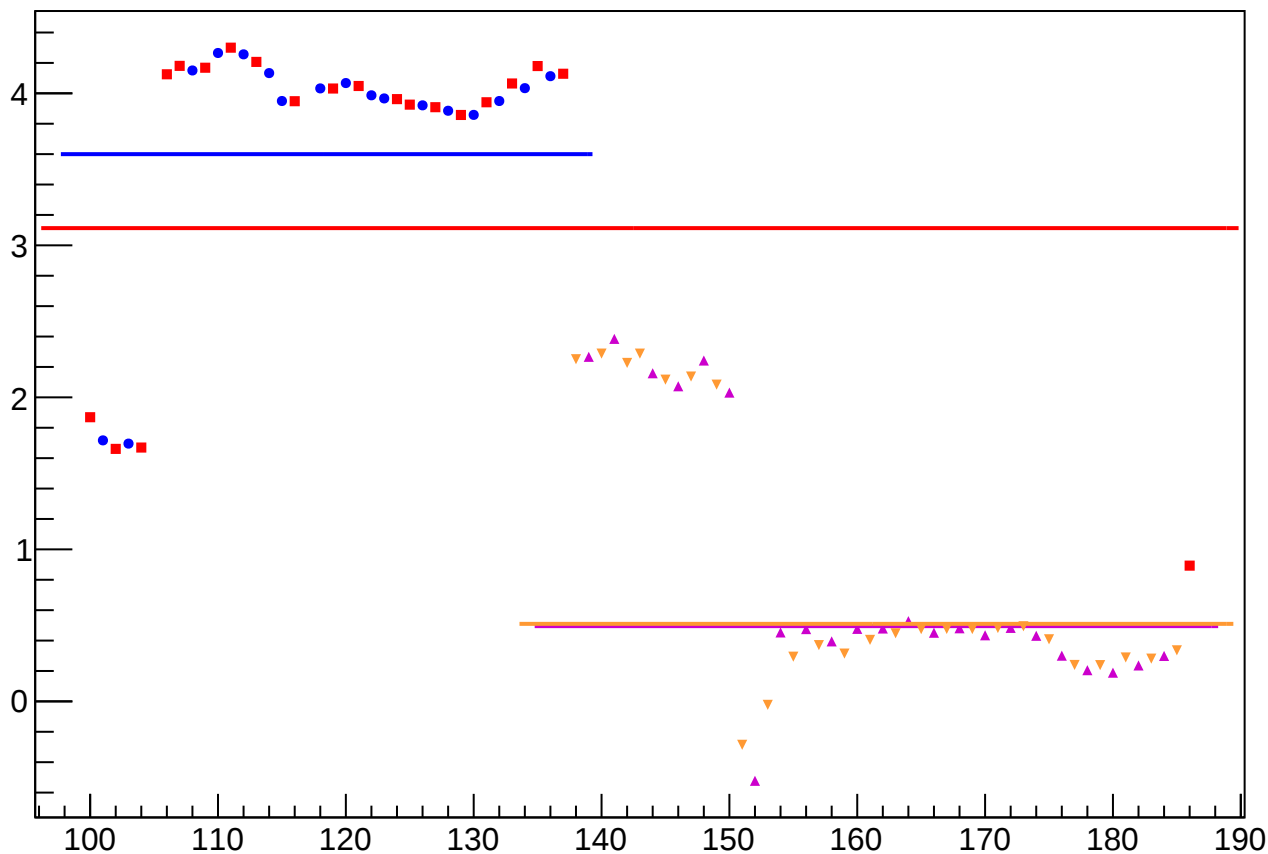
Right: 0.007+/-0.000 χ^2/NDF : 431476.1/36

In: 0.008+/-0.000 χ^2/NDF : 1043229.3/39

Out: 0.008+/-0.000 χ^2/NDF : 1153584.3/44

All: 0.008+/-0.000 χ^2/NDF : 2198174.6/84

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.600 $\pm$ 0.000 χ^2/NDF : 185703271625.0/16

Left Out: 0.510 $\pm$ 0.000 χ^2/NDF : 274818814912.4/24

Right Out: 3.113 $\pm$ 0.000 χ^2/NDF : 538638826481.5/19

Left In: 0.495 $\pm$ 0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503 $\pm$ 0.000 χ^2/NDF : 543767842878.3/47

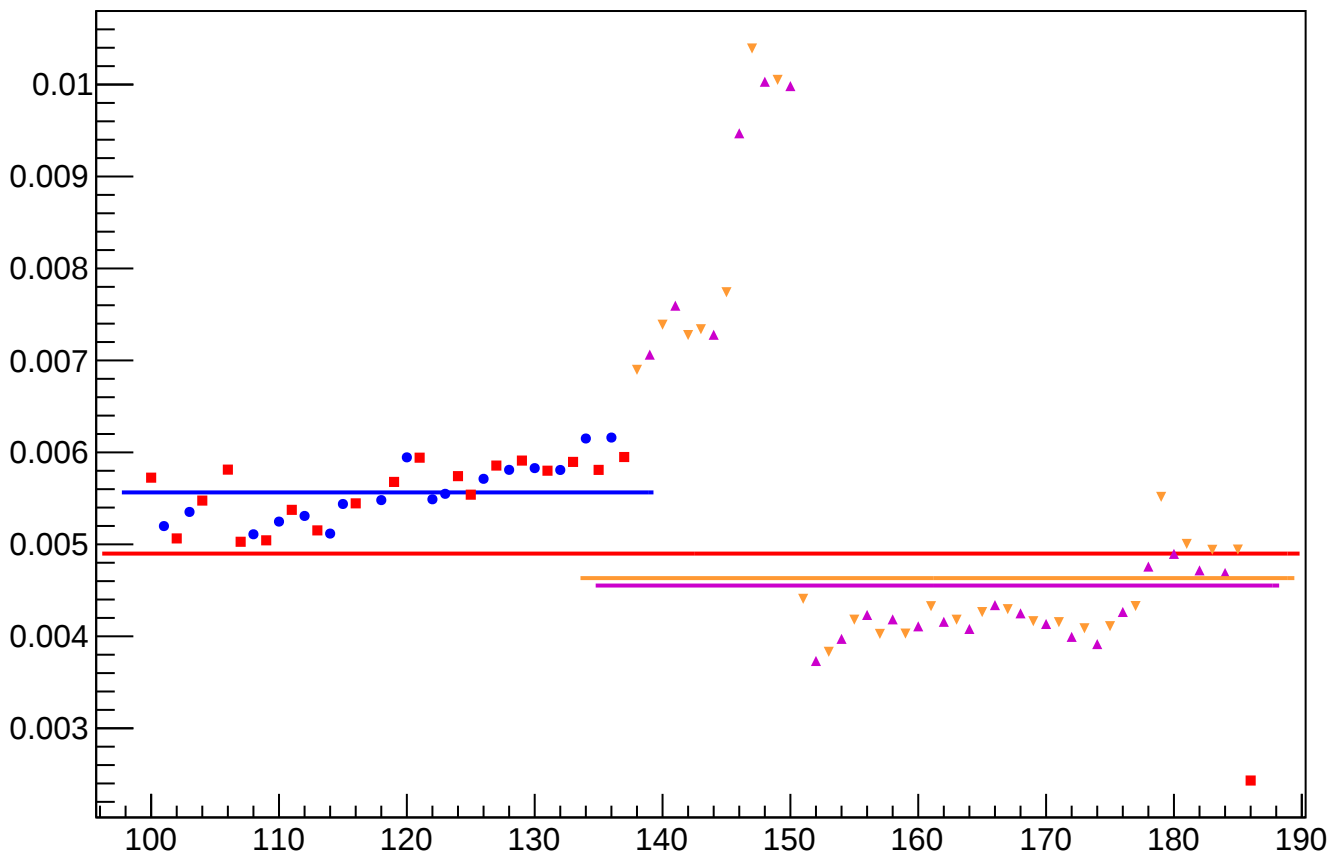
Right: 3.323 $\pm$ 0.000 χ^2/NDF : 753362114133.8/36

In: 1.181 $\pm$ 0.000 χ^2/NDF : 2069692334576.5/39

Out: 1.209 $\pm$ 0.000 χ^2/NDF : 2225904919047.5/44

All: 1.196 $\pm$ 0.000 χ^2/NDF : 4295971727683

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 48084.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.005+/-0.000 χ^2/NDF : 907610.4/19

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

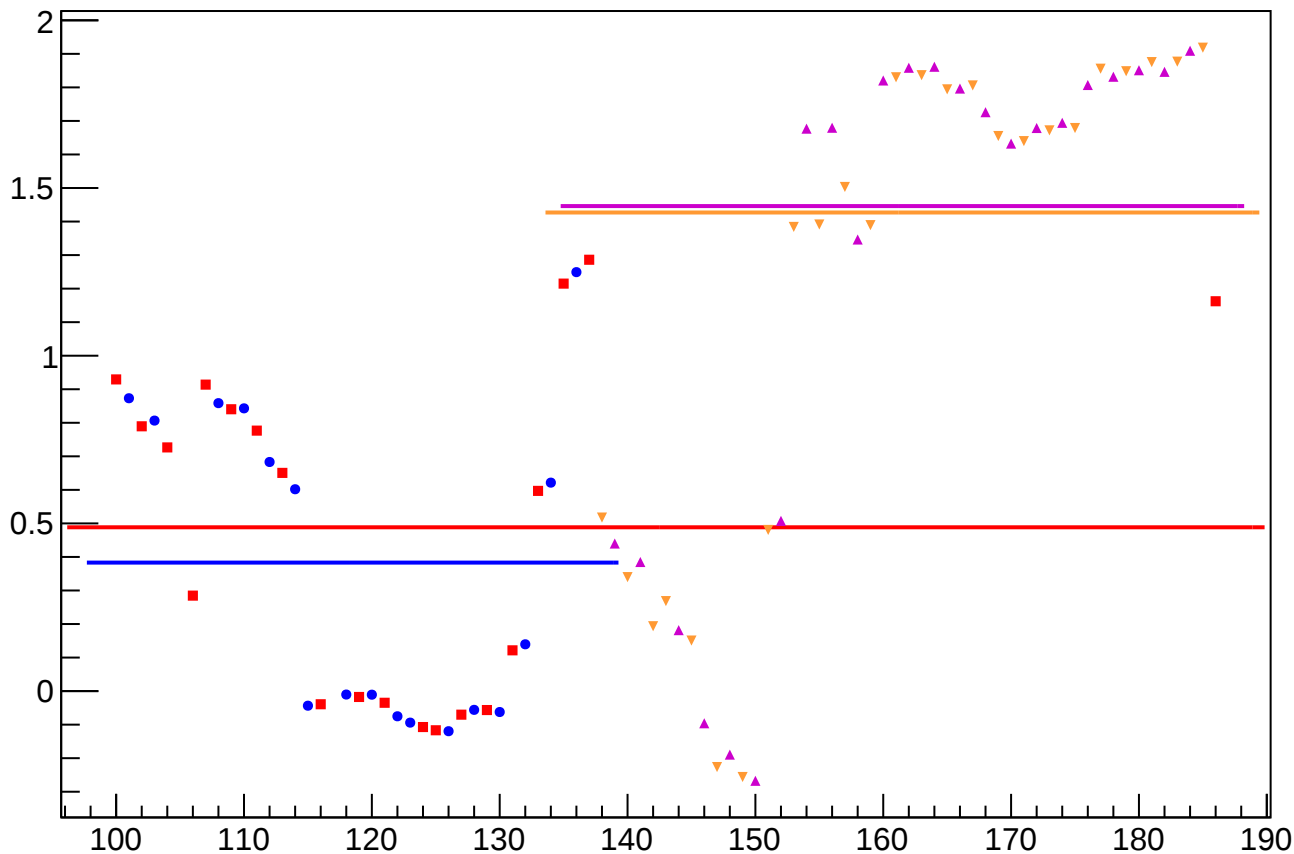
Right: 0.005+/-0.000 χ^2/NDF : 1064187.9/36

In: 0.005+/-0.000 χ^2/NDF :2629412.2/39

Out: 0.005+/-0.000 χ^2/NDF :3051247.7/44

All: 0.005+/-0.000 χ^2/NDF : 5685856.3/84

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.383+/-0.000

χ^2/NDF : 7098148199.8/16

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

Right: 0.439+/-0.000 χ^2/NDF : 15328571883.7/36

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

In: 1.247+/-0.000 χ^2/NDF : 89910185176.6/39

Right Out: 0.488+/-0.000

χ^2/NDF : 8043255102.8/19

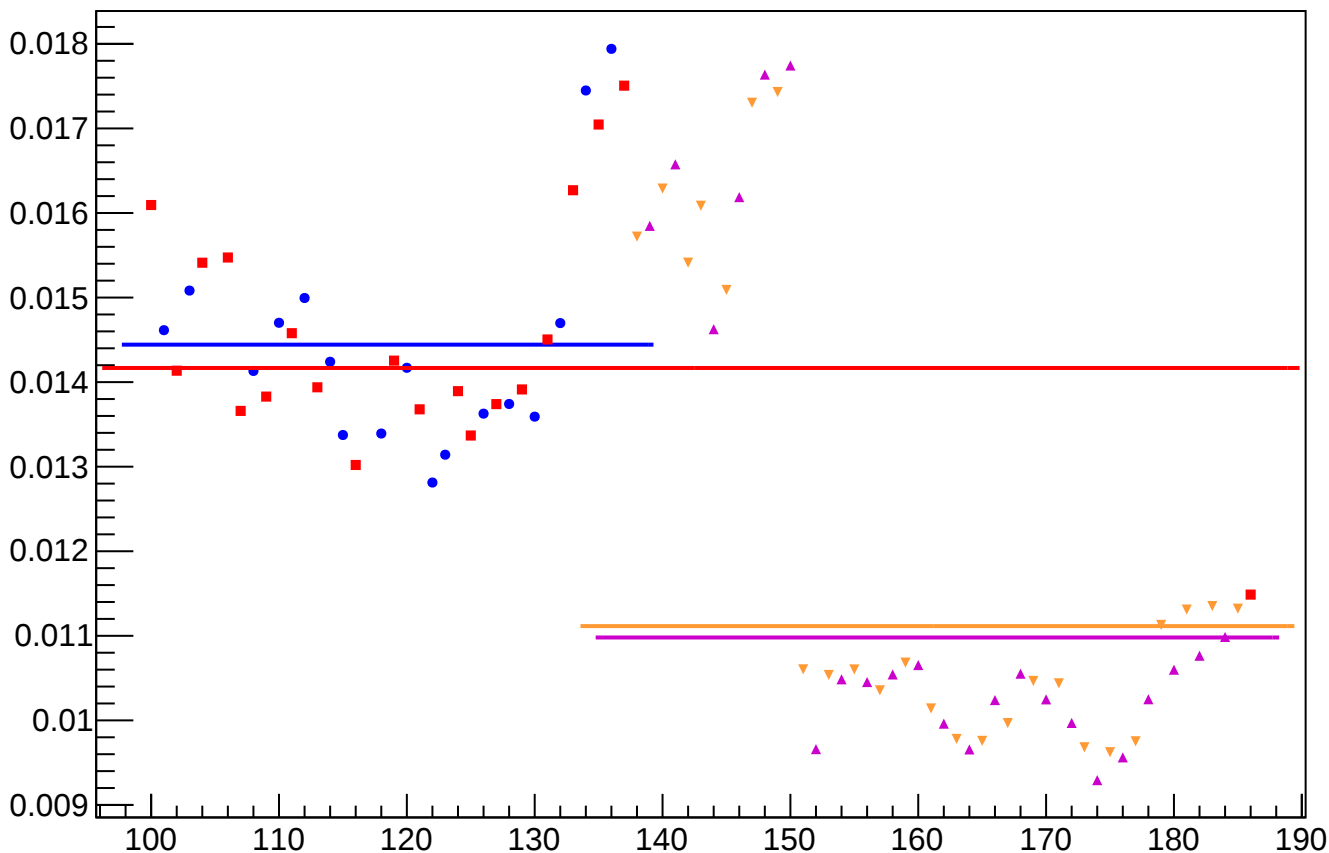
Out: 1.236+/-0.000 χ^2/NDF : 83471510977.0/44

Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

All: 1.242+/-0.000 χ^2/NDF : 173391636731.2

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 109417.4/16

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.014+/-0.000 χ^2/NDF : 118170.0/19

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

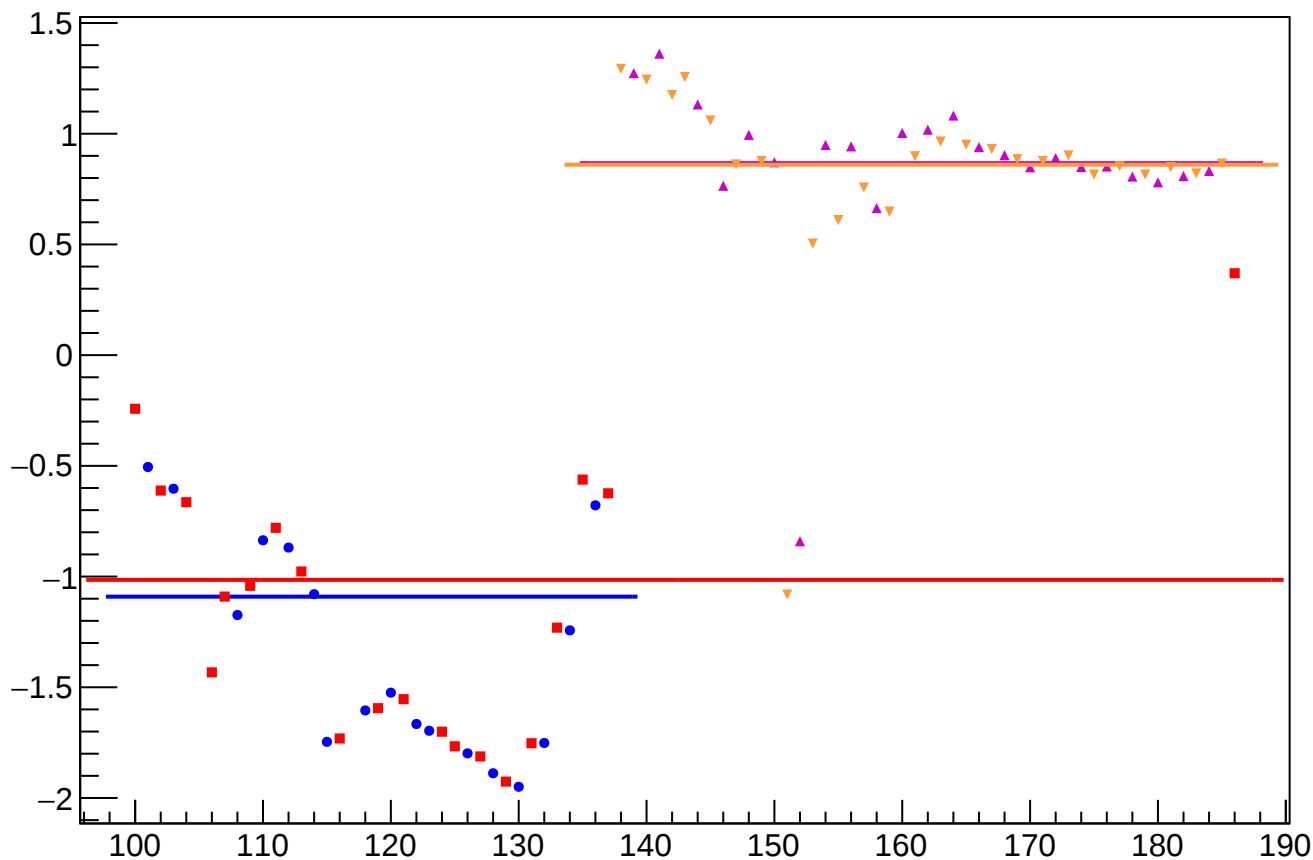
Right: 0.014+/-0.000 χ^2/NDF : 230155.1/36

In: 0.012+/-0.000 χ^2/NDF :1991025.7/39

Out: 0.012+/-0.000 χ^2/NDF :1883829.5/44

All: 0.012+/-0.000 χ^2/NDF : 3876805.9/84

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.091+/-0.000 χ^2/NDF : 55542430282.4/16

Left Out: 0.860+/-0.000 χ^2/NDF :126335891175.4/24

Right Out: -1.015+/-0.000 χ^2/NDF : 61847574704.9/19

Left In: 0.867+/-0.000 χ^2/NDF :147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

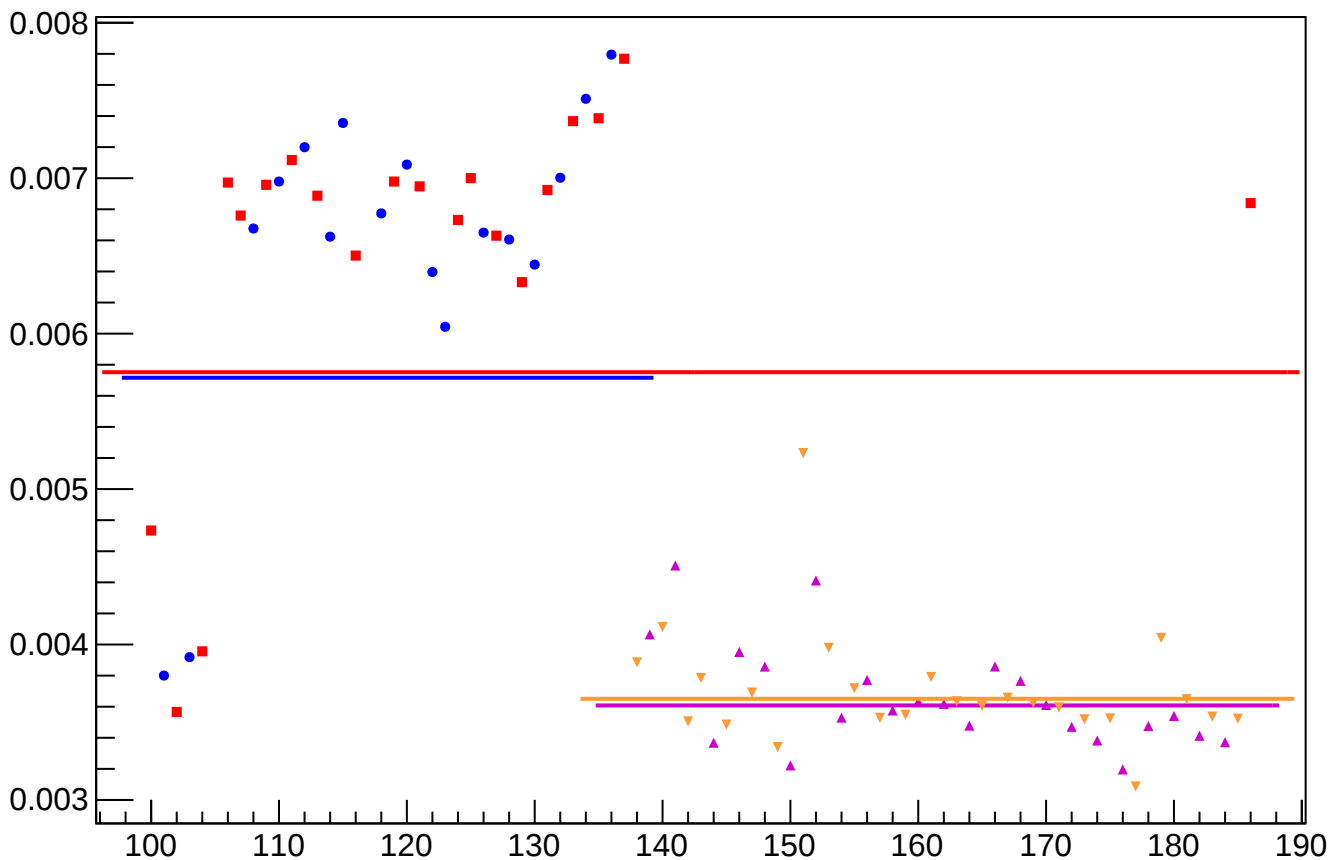
Right: -1.051+/-0.000 χ^2/NDF : 117932105198.2/36

In: 0.612+/-0.000 χ^2/NDF :805805326462.2/39

Out: 0.606+/-0.000 χ^2/NDF :784081904464.9/44

All: 0.609+/-0.000 χ^2/NDF : 1589909816789.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 837929.9/16

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 940009.4/19

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

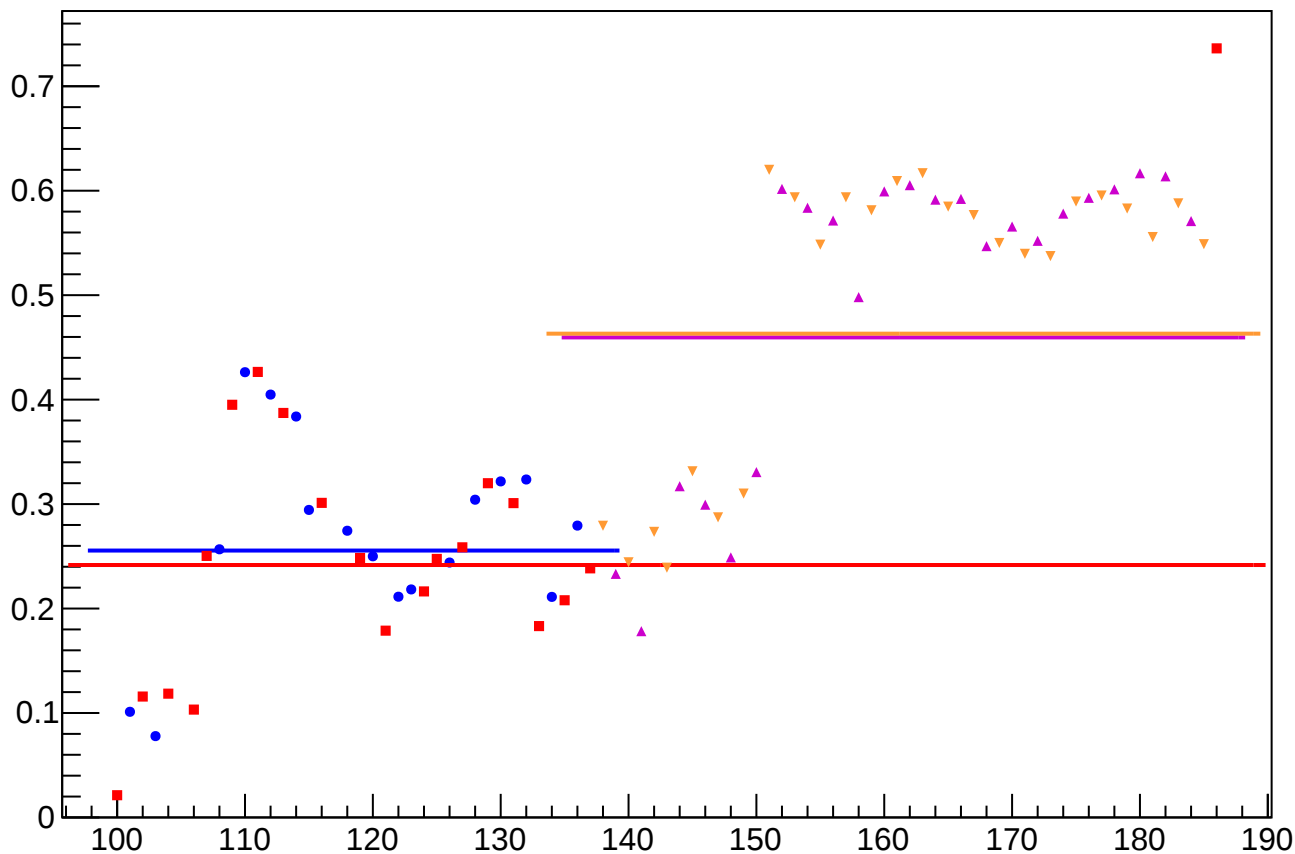
Right: 0.006+/-0.000 χ^2/NDF : 1778180.0/36

In: 0.004+/-0.000 χ^2/NDF :2464352.7/39

Out: 0.004+/-0.000 χ^2/NDF :2674343.3/44

All: 0.004+/-0.000 χ^2/NDF : 5142540.0/84

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000

χ^2/NDF : 21303879000.5/16

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

Right: 0.248+/-0.000 χ^2/NDF : 53309485516.7/36

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

In: 0.385+/-0.000 χ^2/NDF : 190061810545.8/39

Right Out: 0.242+/-0.000

χ^2/NDF : 31758588130.7/19

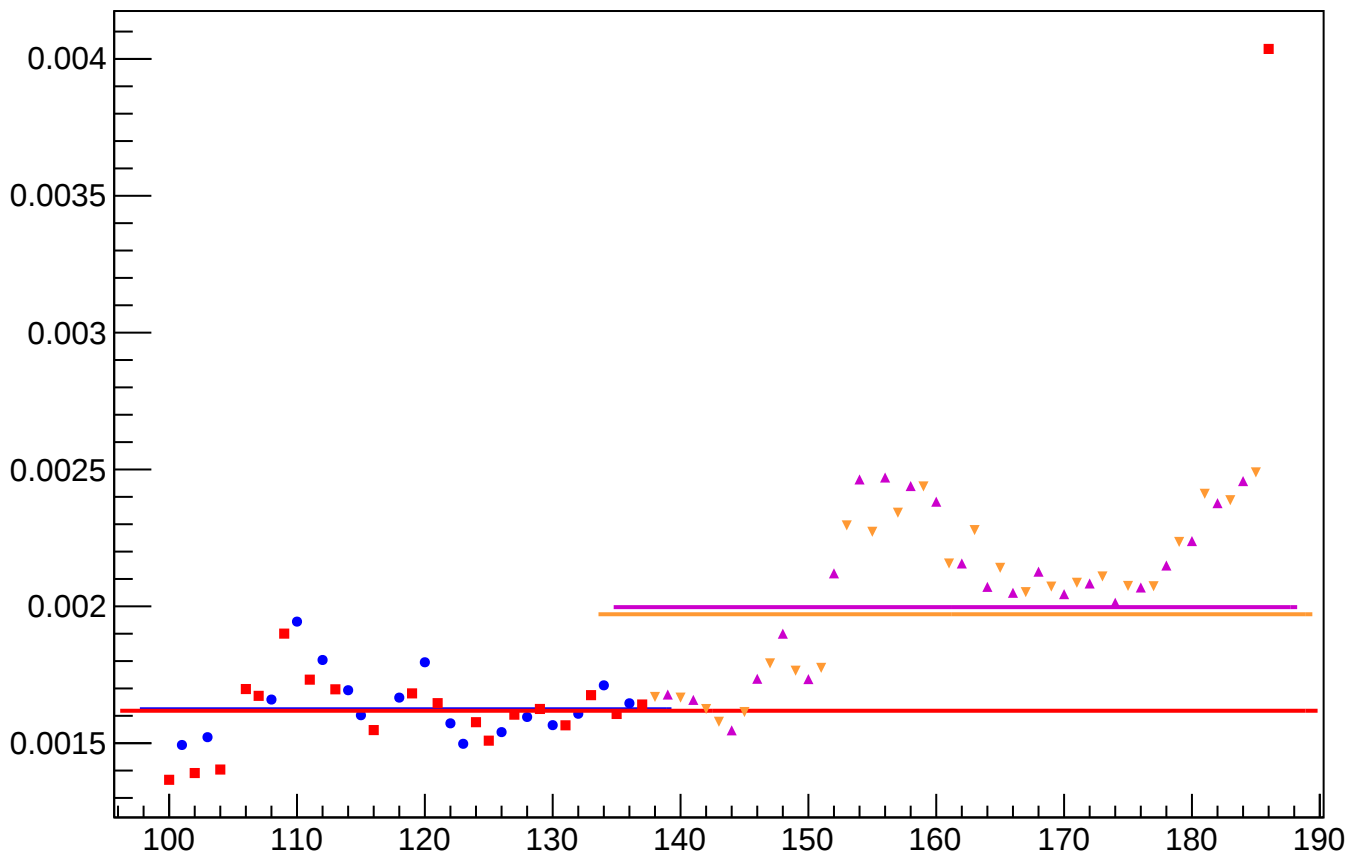
Out: 0.380+/-0.000 χ^2/NDF : 218450901414.1/44

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.383+/-0.000 χ^2/NDF : 408575839731.6

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52349.3/16

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 363555.5/19

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

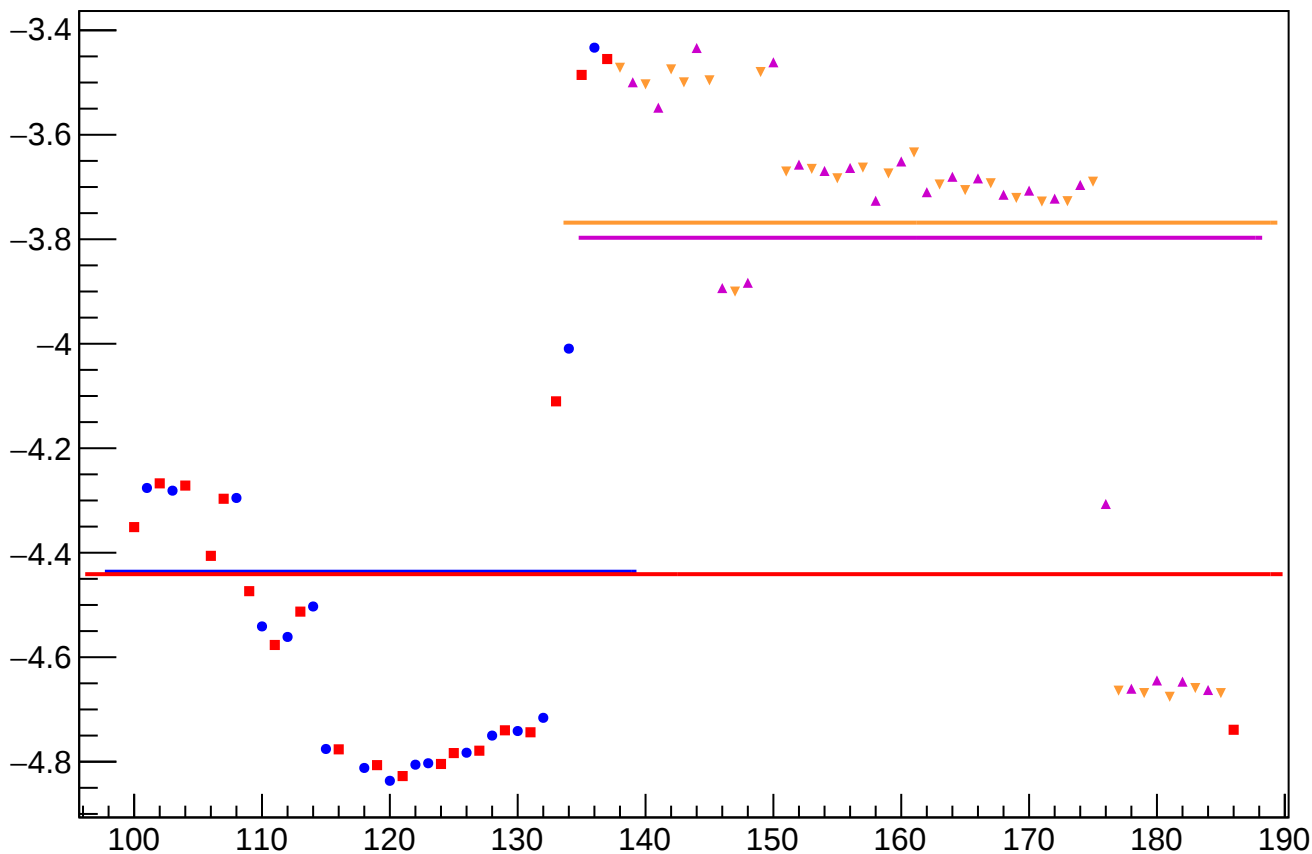
Right: 0.002+/-0.000 χ^2/NDF : 415979.6/36

In: 0.002+/-0.000 χ^2/NDF : 1148244.8/39

Out: 0.002+/-0.000 χ^2/NDF : 1520428.8/44

All: 0.002+/-0.000 χ^2/NDF : 2671677.5/84

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.436 $\pm$ 0.000 χ^2 /NDF: 392479534987.2/16

Left Out: -3.768 $\pm$ 0.000 χ^2 /NDF: 516780173940.8/24

Right Out: -4.441 $\pm$ 0.000 χ^2 /NDF: 328276371518.5/19

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

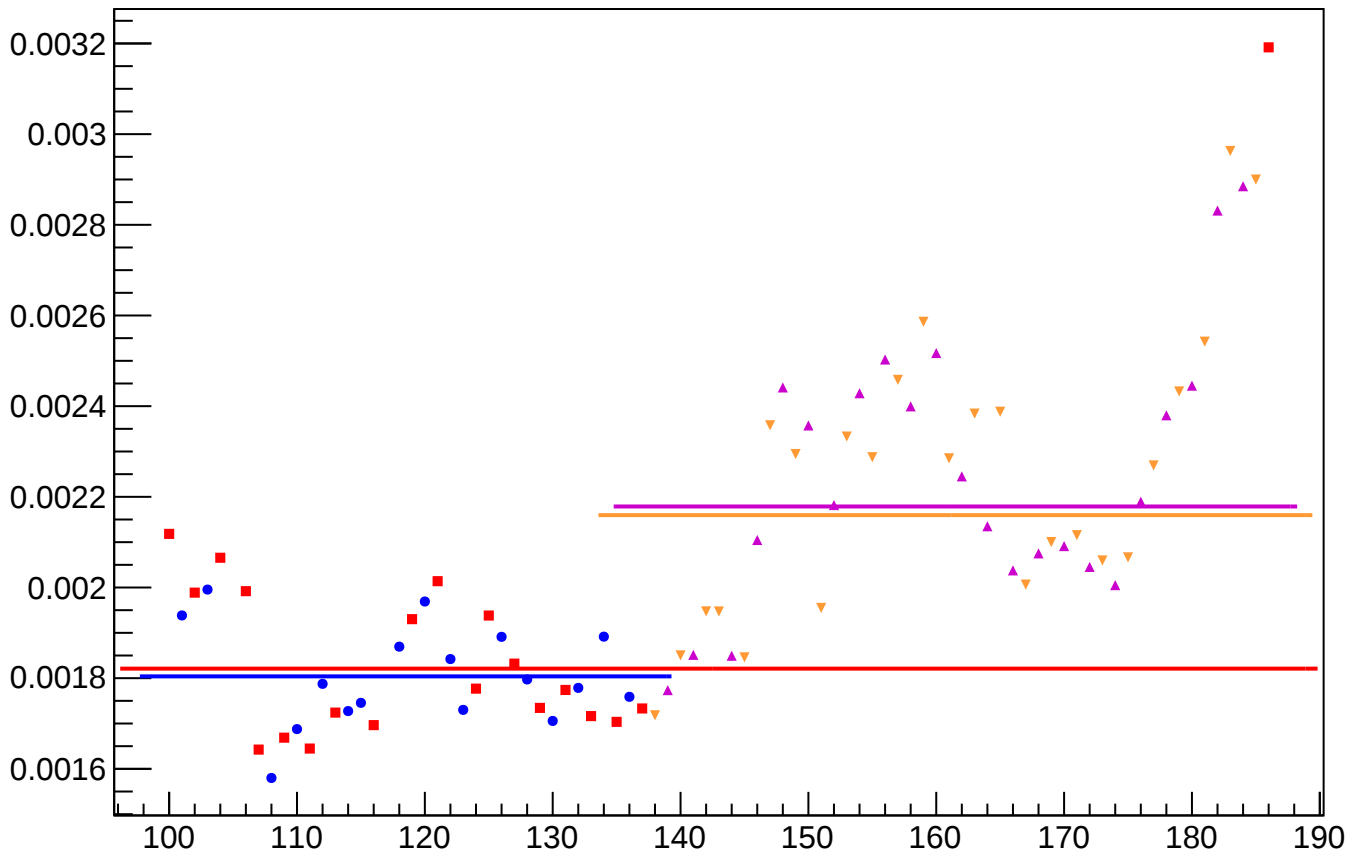
Right: -4.439 $\pm$ 0.000 χ^2 /NDF: 720778647208.8/36

In: -4.027 $\pm$ 0.000 χ^2 /NDF: 1358855337405.3/39

Out: -4.011 $\pm$ 0.000 χ^2 /NDF: 1469021534227.3/44

All: -4.019 $\pm$ 0.000 χ^2 /NDF: 2828568970401

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 48060.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 221843.5/19

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

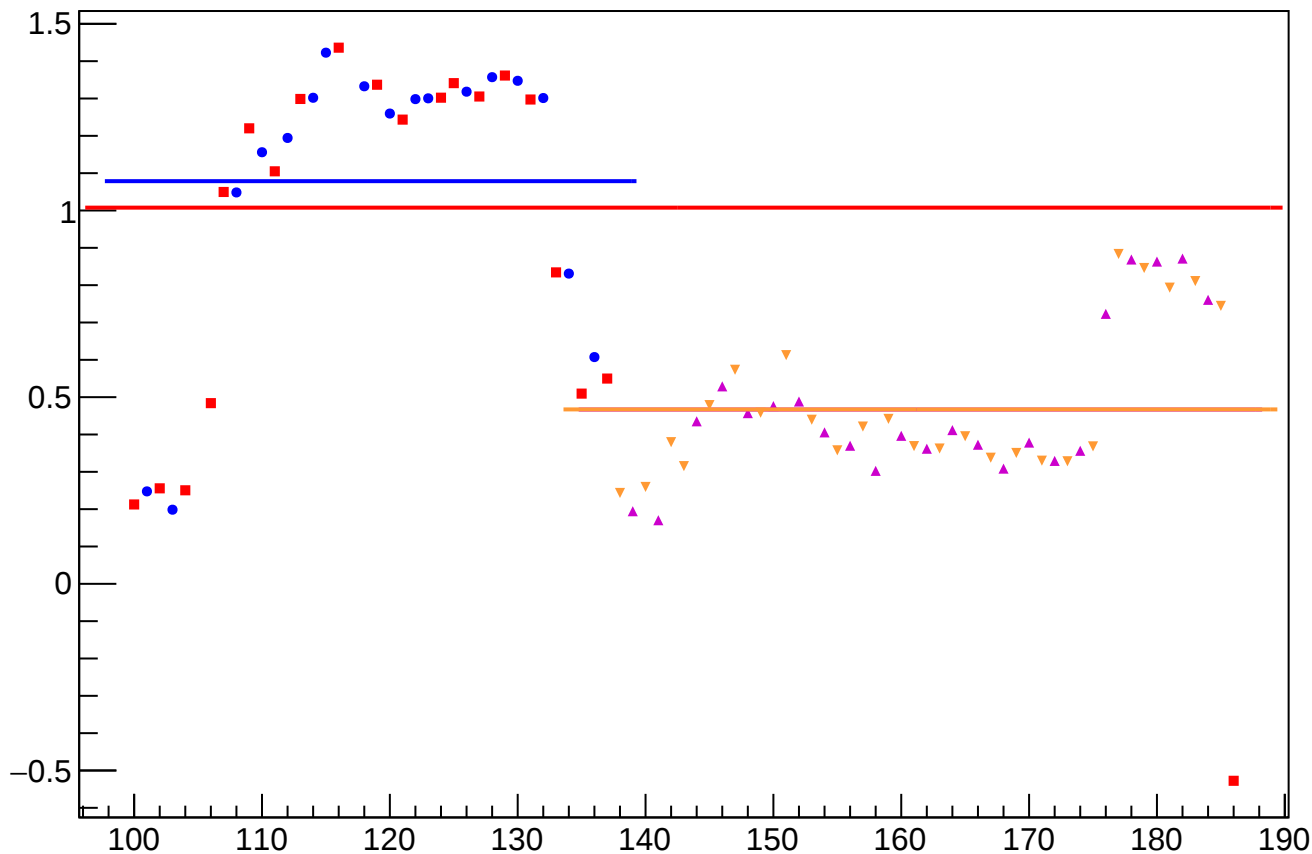
Right: 0.002+/-0.000 χ^2/NDF : 270507.8/36

In: 0.002+/-0.000 χ^2/NDF :869745.1/39

Out: 0.002+/-0.000 χ^2/NDF :1085639.3/44

All: 0.002+/-0.000 χ^2/NDF : 1955646.4/84

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.079+/-0.000 χ^2/NDF : 17504335724.9/16

Left Out: 0.467+/-0.000 χ^2/NDF : 7359344143.3/24

Right Out: 1.008+/-0.000 χ^2/NDF : 28013165028.5/19

Left In: 0.467+/-0.000 χ^2/NDF : 8036741308.0/22

Left: 0.467+/-0.000 χ^2/NDF : 15396100488.4/47

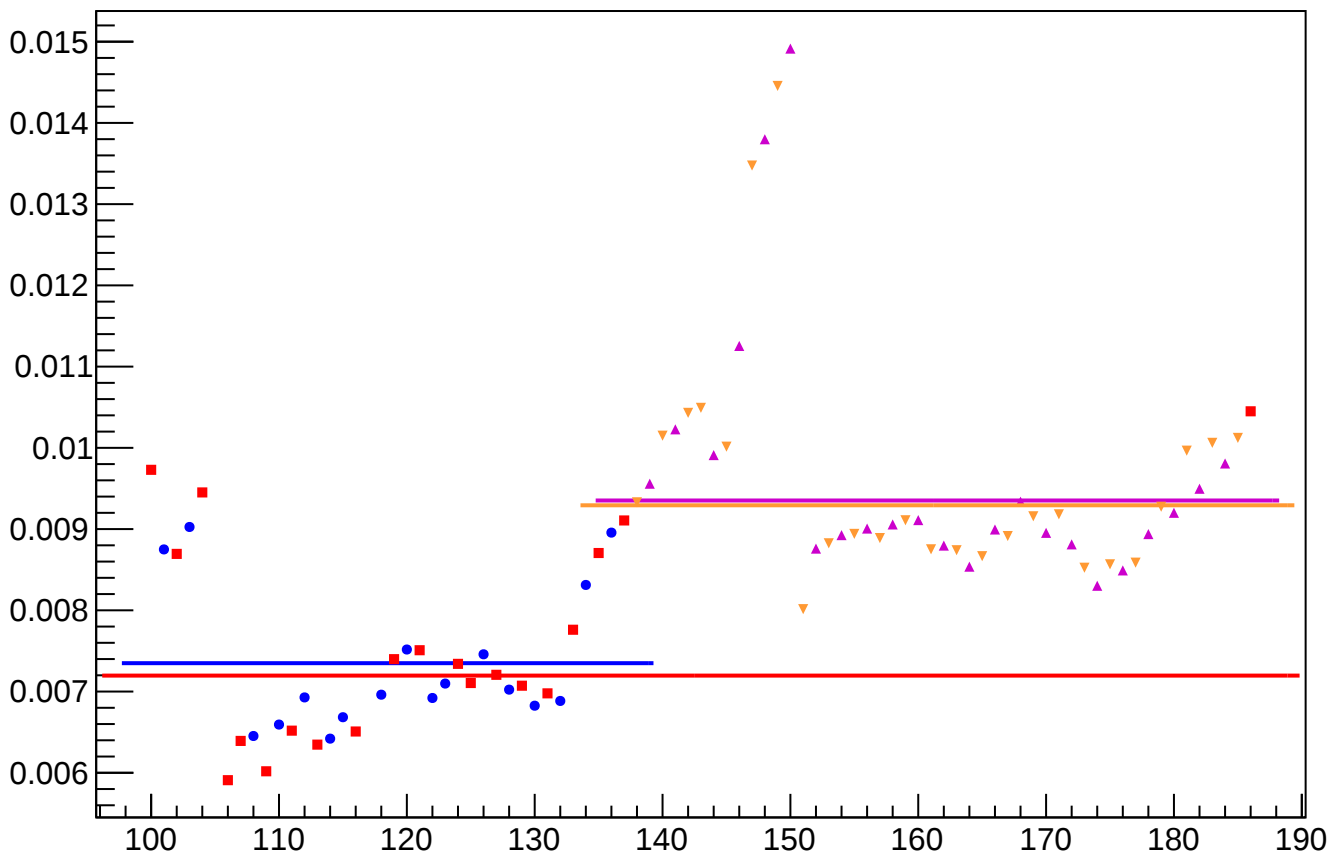
Right: 1.041+/-0.000 χ^2/NDF : 45846318605.5/36

In: 0.703+/-0.000 χ^2/NDF : 53574656408.2/39

Out: 0.685+/-0.000 χ^2/NDF : 59949609020.1/44

All: 0.693+/-0.000 χ^2/NDF : 113577322841.1

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180865.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 528279.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 334424.8/19

Left In: 0.009+/-0.000 χ^2/NDF : 557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

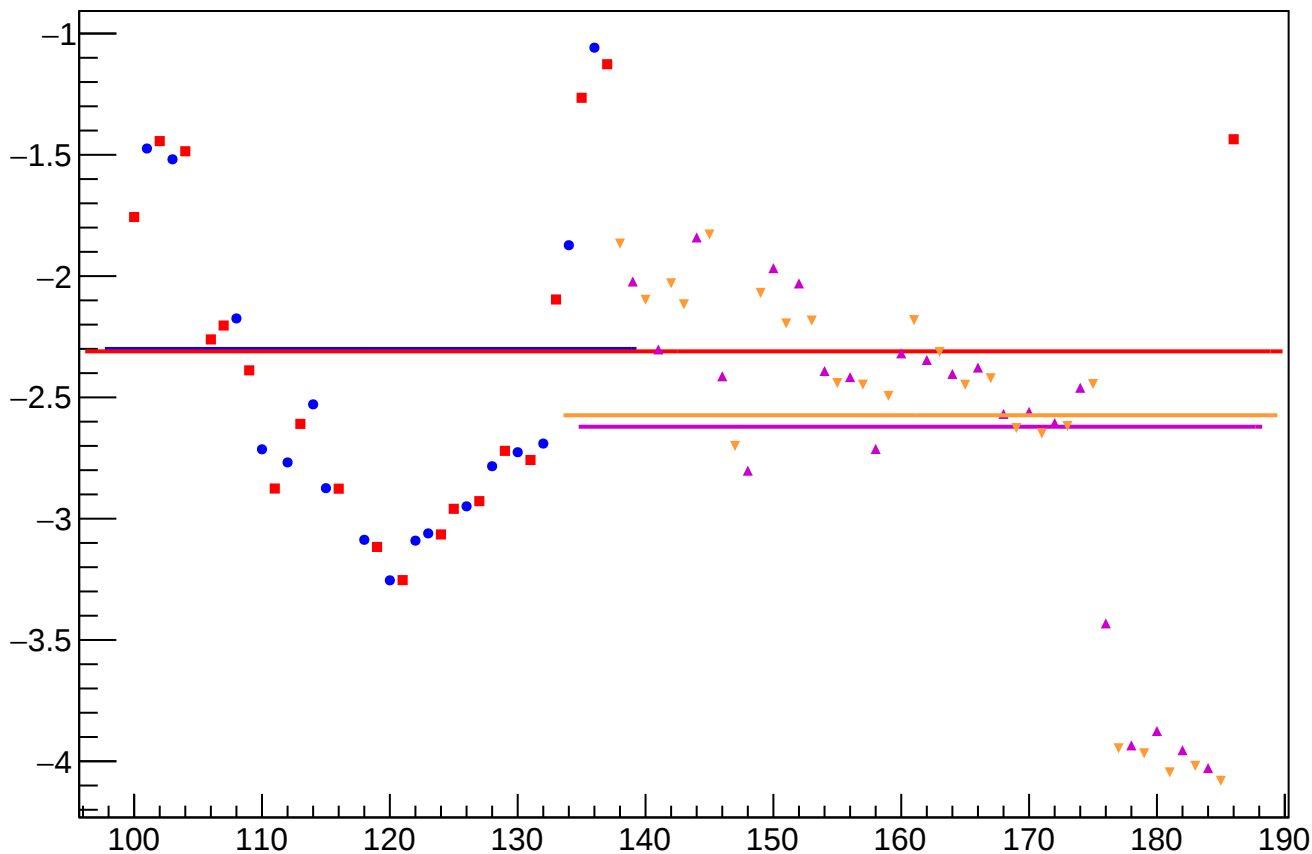
Right: 0.007+/-0.000 χ^2/NDF : 518345.5/36

In: 0.009+/-0.000 χ^2/NDF : 1339210.6/39

Out: 0.008+/-0.000 χ^2/NDF : 1602242.2/44

All: 0.009+/-0.000 χ^2/NDF : 2947164.7/84

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.300+/-0.000 χ^2/NDF : 73601400403.2/16

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -2.310+/-0.000 χ^2/NDF : 67572619948.1/19

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

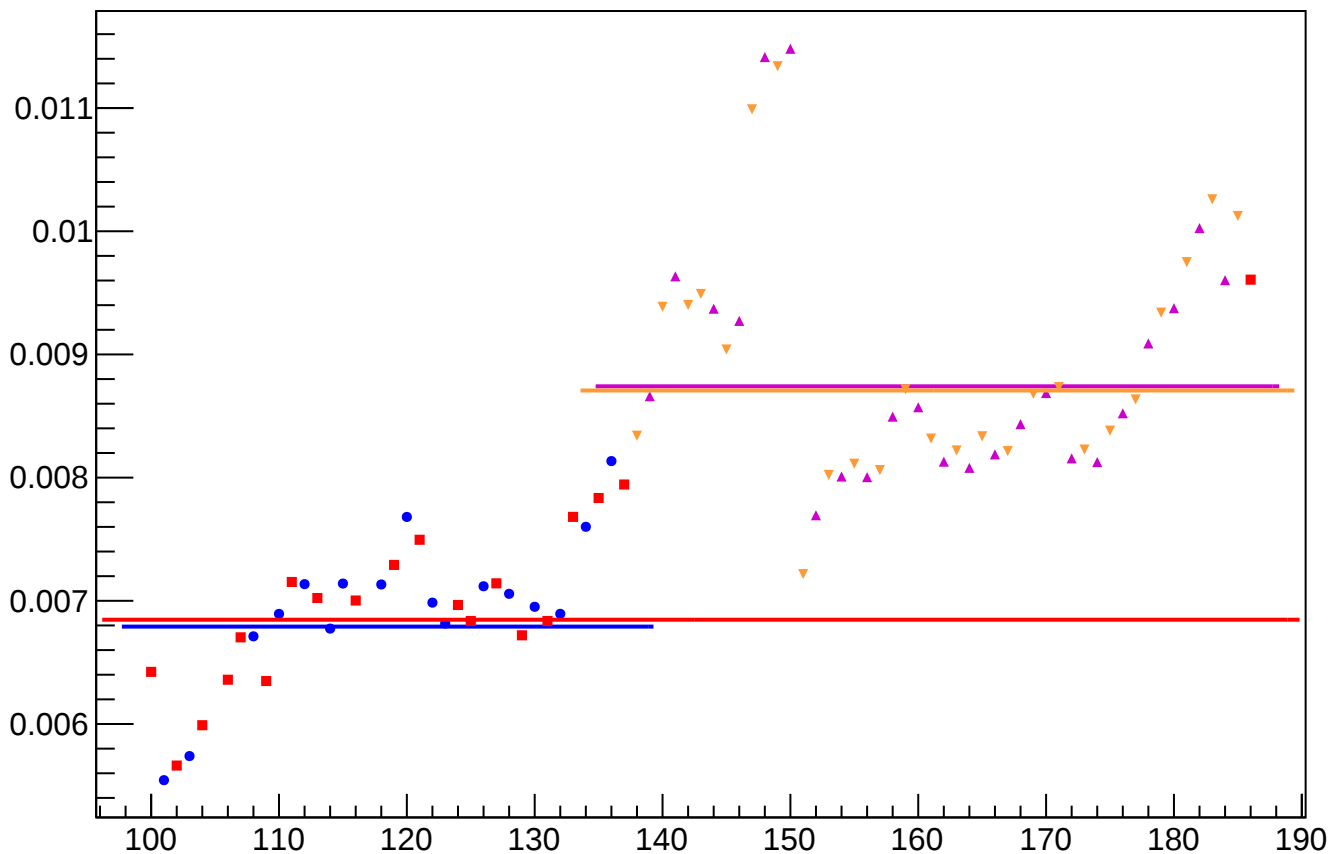
Right: -2.306+/-0.000 χ^2/NDF : 141181211339.1/36

In: -2.496+/-0.000 χ^2/NDF : 163448036744.6/39

Out: -2.469+/-0.000 χ^2/NDF : 173346031303.5/44

All: -2.482+/-0.000 χ^2/NDF : 336929807579.0

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165798.3/16

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 187620.2/19

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

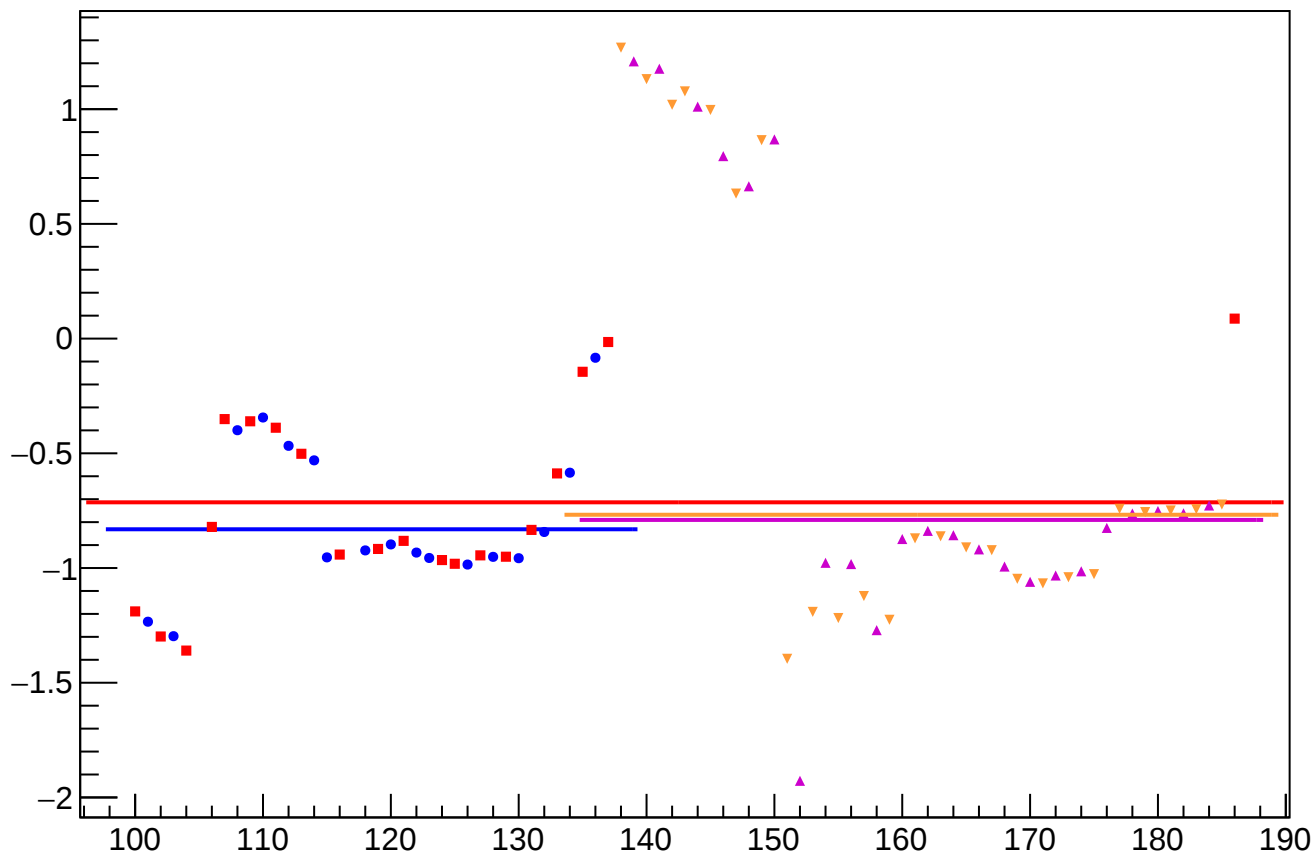
Right: 0.007+/-0.000 χ^2/NDF : 353886.0/36

In: 0.008+/-0.000 χ^2/NDF : 1185214.6/39

Out: 0.008+/-0.000 χ^2/NDF : 1215134.4/44

All: 0.008+/-0.000 χ^2/NDF : 2400394.6/84

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831 ± 0.000 $\chi^2/\text{NDF}: 6684927415.2/16$

Left Out: -0.768 ± 0.000 $\chi^2/\text{NDF}: 120774855982.9/24$

Right Out: -0.714 ± 0.000 $\chi^2/\text{NDF}: 12092540082.8/19$

Left In: -0.790 ± 0.000 $\chi^2/\text{NDF}: 123452478408.2/22$

Left: -0.779 ± 0.000 $\chi^2/\text{NDF}: 244297726249.8/47$

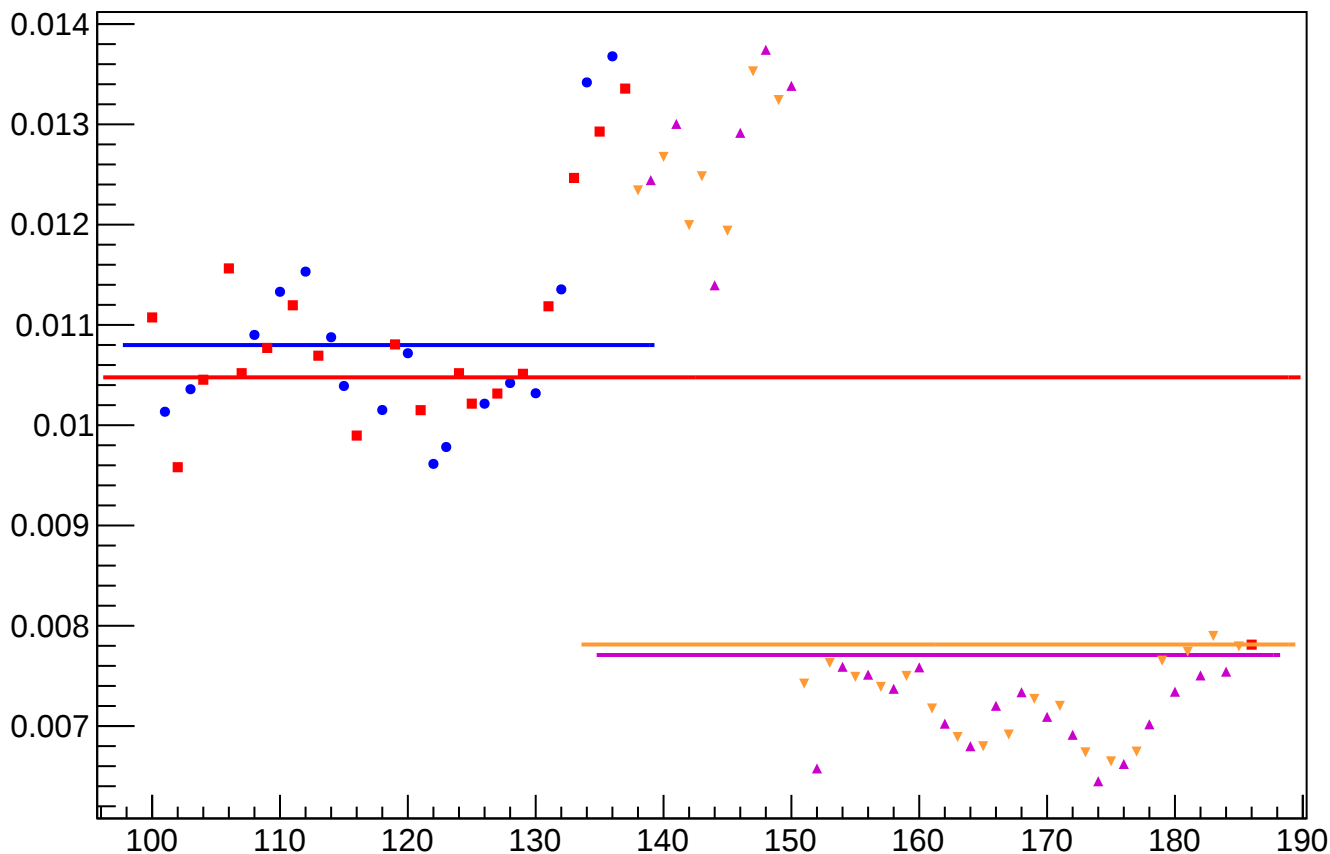
Right: -0.768 ± 0.000 $\chi^2/\text{NDF}: 19194919491.4/36$

In: -0.797 ± 0.000 $\chi^2/\text{NDF}: 130214745459.8/39$

Out: -0.758 ± 0.000 $\chi^2/\text{NDF}: 133023476119.4/44$

All: -0.777 ± 0.000 $\chi^2/\text{NDF}: 263504827856.8$

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124812.3/16

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 184381.6/19

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

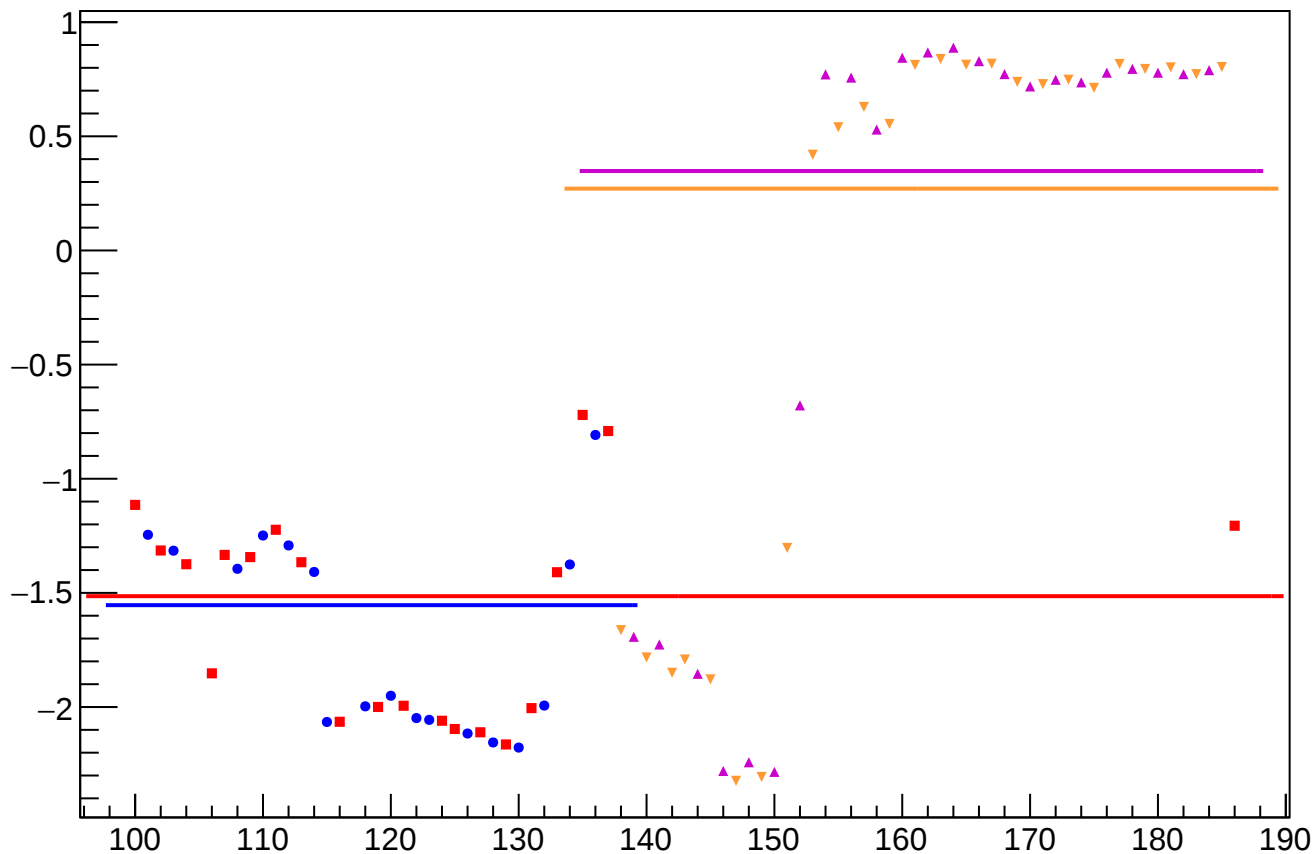
Right: 0.011+/-0.000 χ^2/NDF : 315461.1/36

In: 0.008+/-0.000 χ^2/NDF :2760653.6/39

Out: 0.008+/-0.000 χ^2/NDF :2645264.5/44

All: 0.008+/-0.000 χ^2/NDF : 5408016.8/84

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Left: 0.308 $\pm$ 0.000 χ^2/NDF : 4864843200778.2/47

Right: -1.533 $\pm$ 0.000 χ^2/NDF : 293982596531.8/36

In: -0.137 $\pm$ 0.000 χ^2/NDF : 4717469165700.5/39

Out: -0.215 $\pm$ 0.000 χ^2/NDF : 4995777823259.5/44

All: -0.177 $\pm$ 0.000 χ^2/NDF : 9723734859539

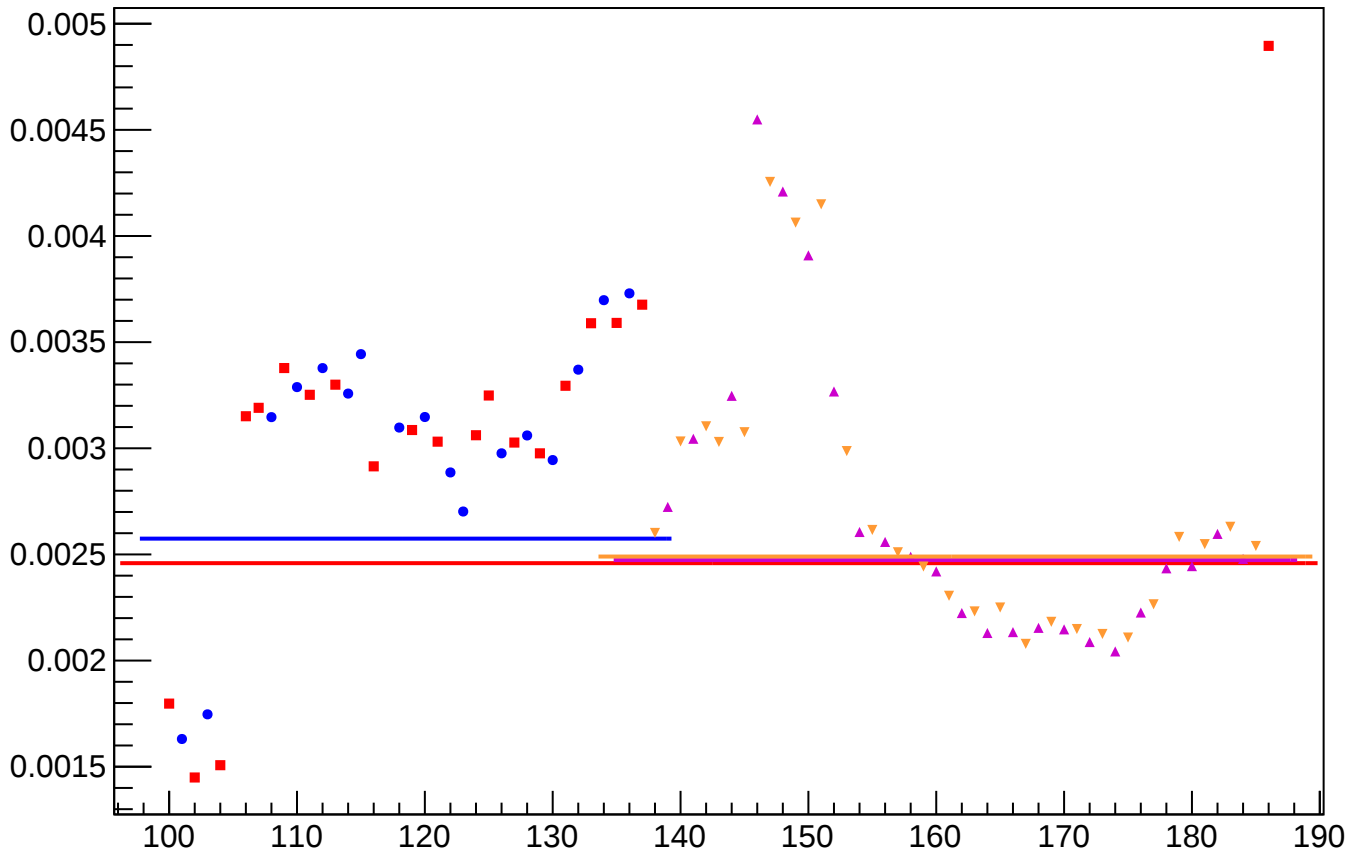
Right In: -1.554 $\pm$ 0.000 χ^2/NDF : 153751208532.9/16

Left Out: 0.271 $\pm$ 0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.514 $\pm$ 0.000 χ^2/NDF : 139525609632.0/19

Left In: 0.348 $\pm$ 0.000 χ^2/NDF : 2274004426513.8/22

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1013543.2/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1070282.7/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 1667487.9/19

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

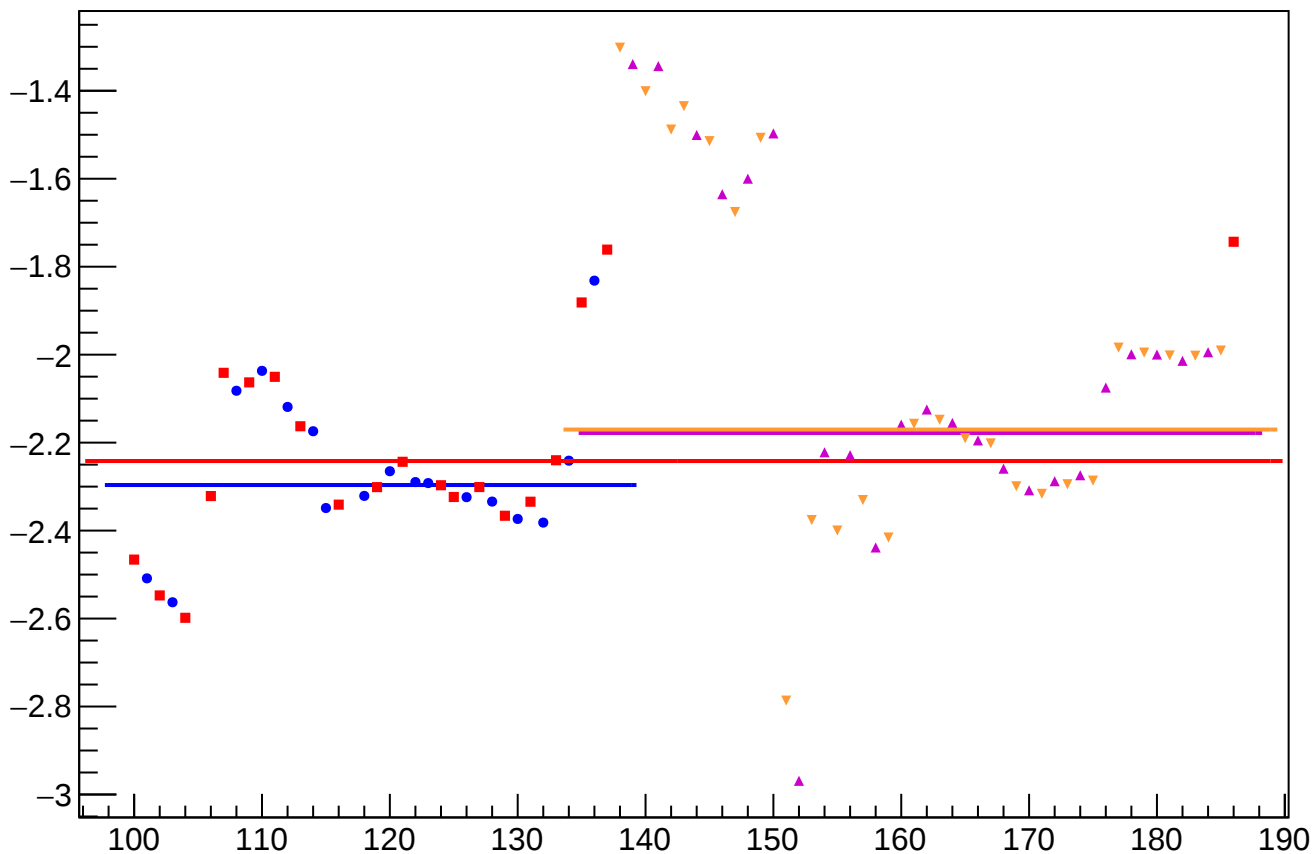
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 2693190.7/36

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2161744.6/39

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:2739157.5/44

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 4901977.7/84

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5781445779.2/16

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -2.242+/-0.000 χ^2/NDF : 10141724054.3/19

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

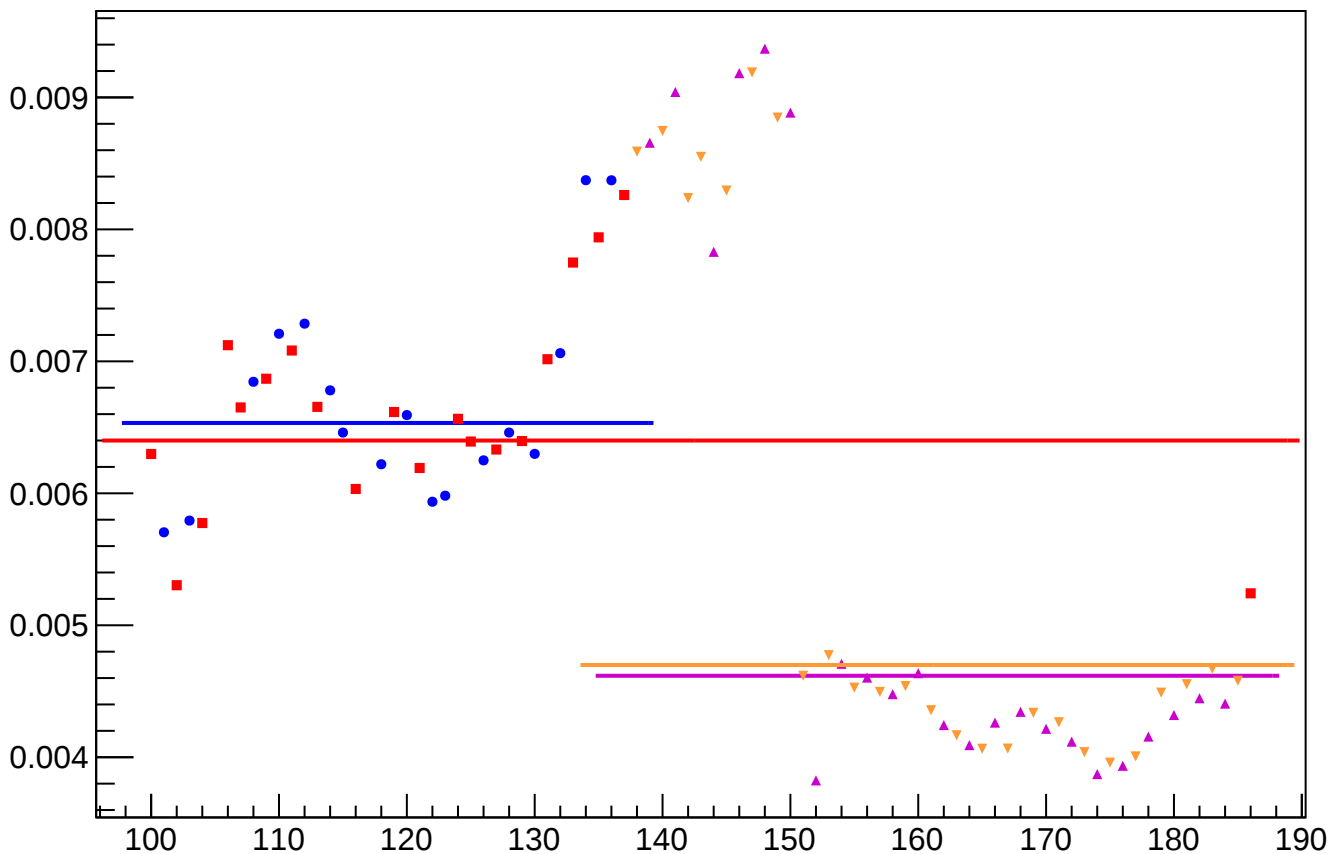
Right: -2.267+/-0.000 χ^2/NDF : 16163904615.8/36

In: -2.198+/-0.000 χ^2/NDF : 80936013661.2/39

Out: -2.184+/-0.000 χ^2/NDF : 70831377963.6/44

All: -2.191+/-0.000 χ^2/NDF : 151864679398.0

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 175590.1/16

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 201980.9/19

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

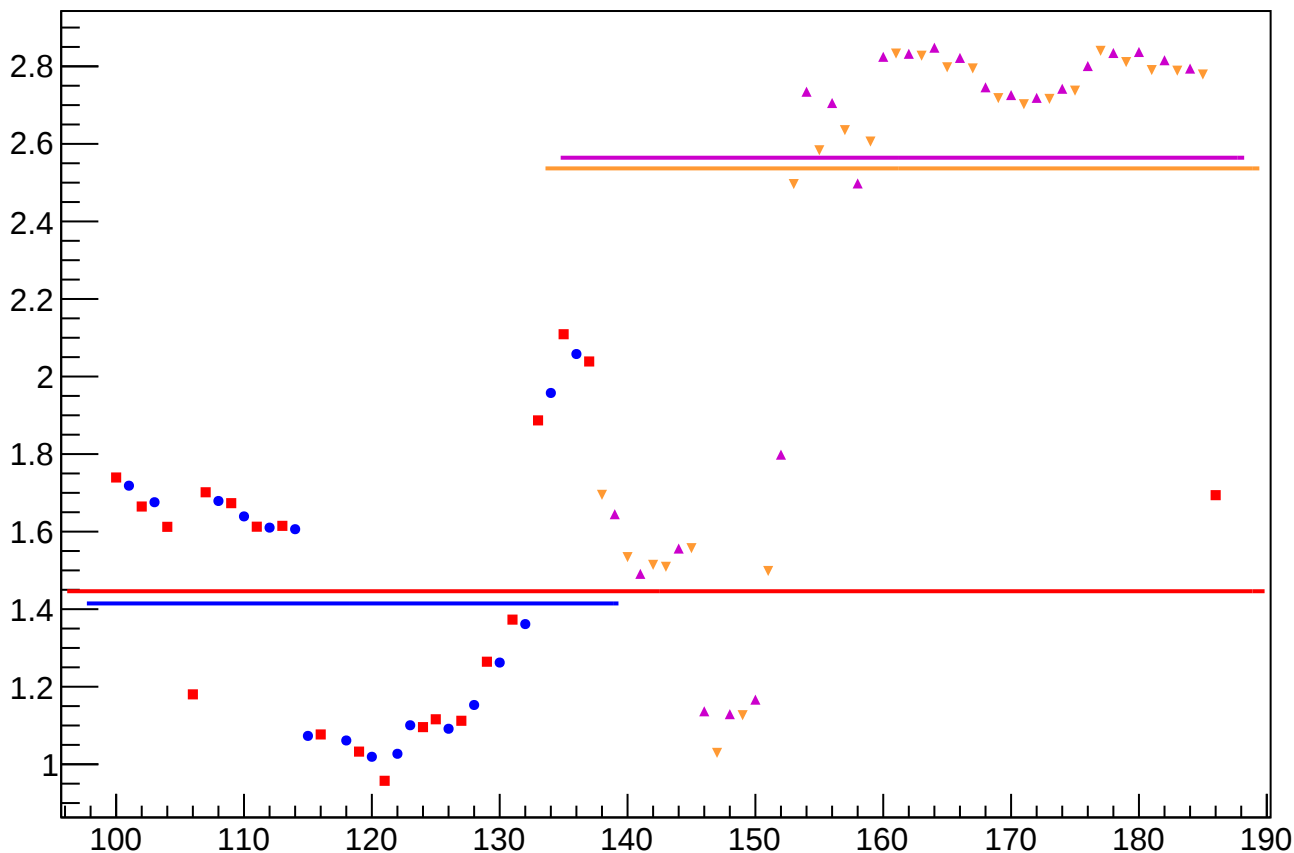
Right: 0.006+/-0.000 χ^2/NDF : 380435.8/36

In: 0.005+/-0.000 χ^2/NDF :3461518.6/39

Out: 0.005+/-0.000 χ^2/NDF :3338036.2/44

All: 0.005+/-0.000 χ^2/NDF : 6804271.8/84

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.415+/-0.000 χ^2/NDF : 171733730631.9/16

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.446+/-0.000 χ^2/NDF : 173765251899.0/19

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

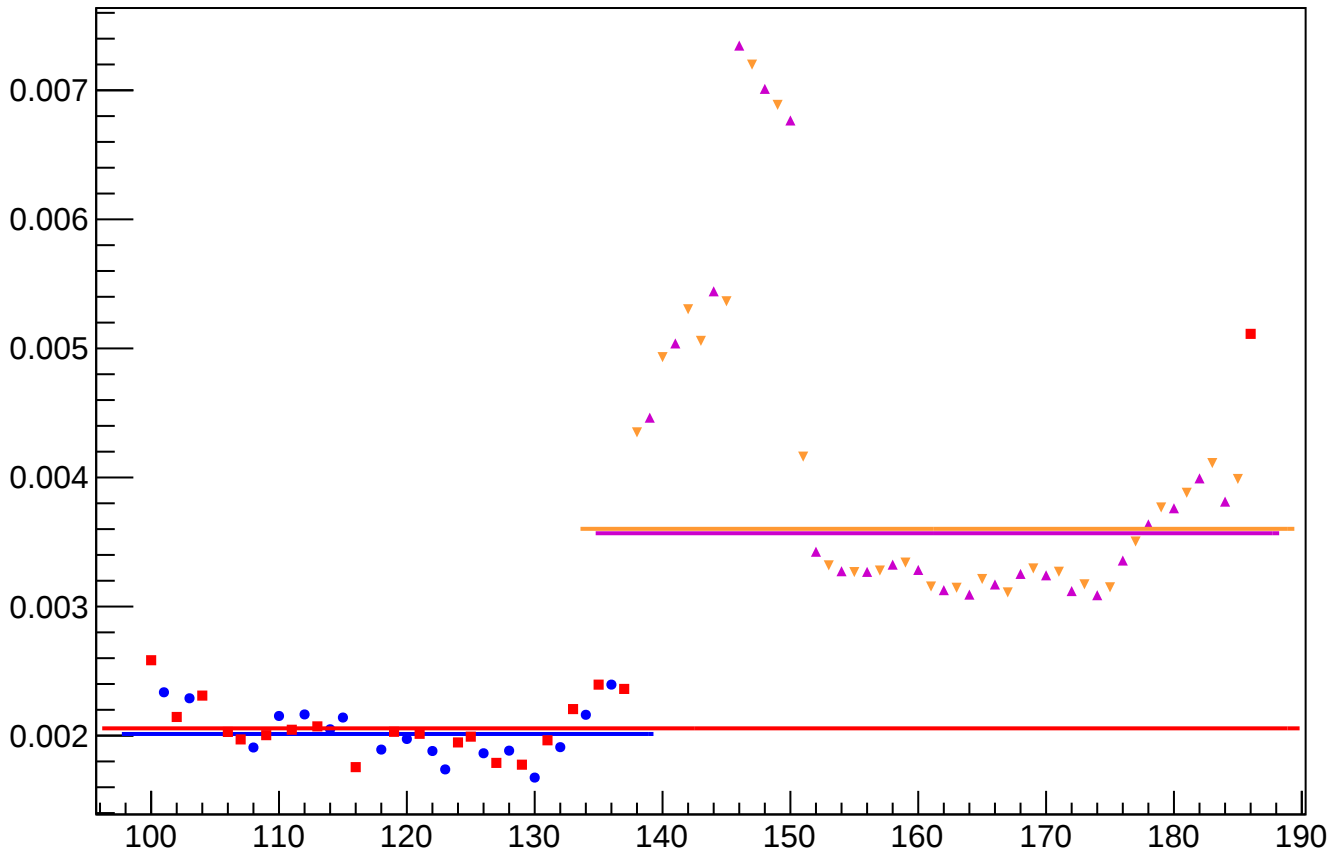
Right: 1.431+/-0.000 χ^2/NDF : 346268551739.4/36

In: 1.929+/-0.000 χ^2/NDF : 1328115245059.8/39

Out: 1.935+/-0.000 χ^2/NDF : 1288757026252.4/44

All: 1.932+/-0.000 χ^2/NDF : 2616929410114.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2/NDF : 149372.5/16

Left Out: 0.004 $\pm$ 0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002 $\pm$ 0.000 χ^2/NDF : 375619.9/19

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

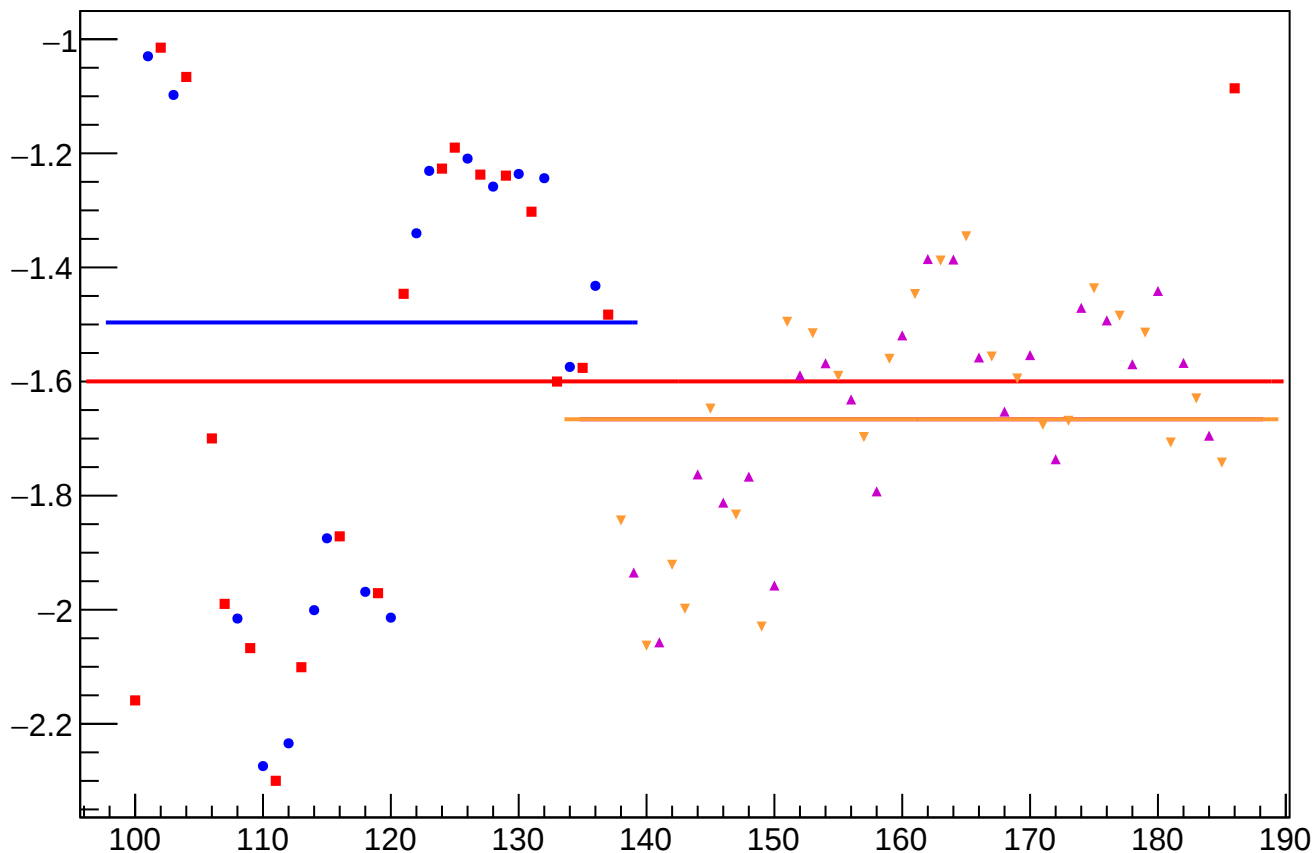
Right: 0.002 $\pm$ 0.000 χ^2/NDF : 527945.3/36

In: 0.003 $\pm$ 0.000 χ^2/NDF :4992746.8/39

Out: 0.003 $\pm$ 0.000 χ^2/NDF :5184390.9/44

All: 0.003 $\pm$ 0.000 χ^2/NDF : 10181918.7/84

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22480434073.3/16

Left Out: -1.666+/-0.000 χ^2/NDF : 18325162131.2/24

Right Out: -1.600+/-0.000 χ^2/NDF : 28503601597.9/19

Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

Left: -1.666+/-0.000 χ^2/NDF : 32617732948.1/47

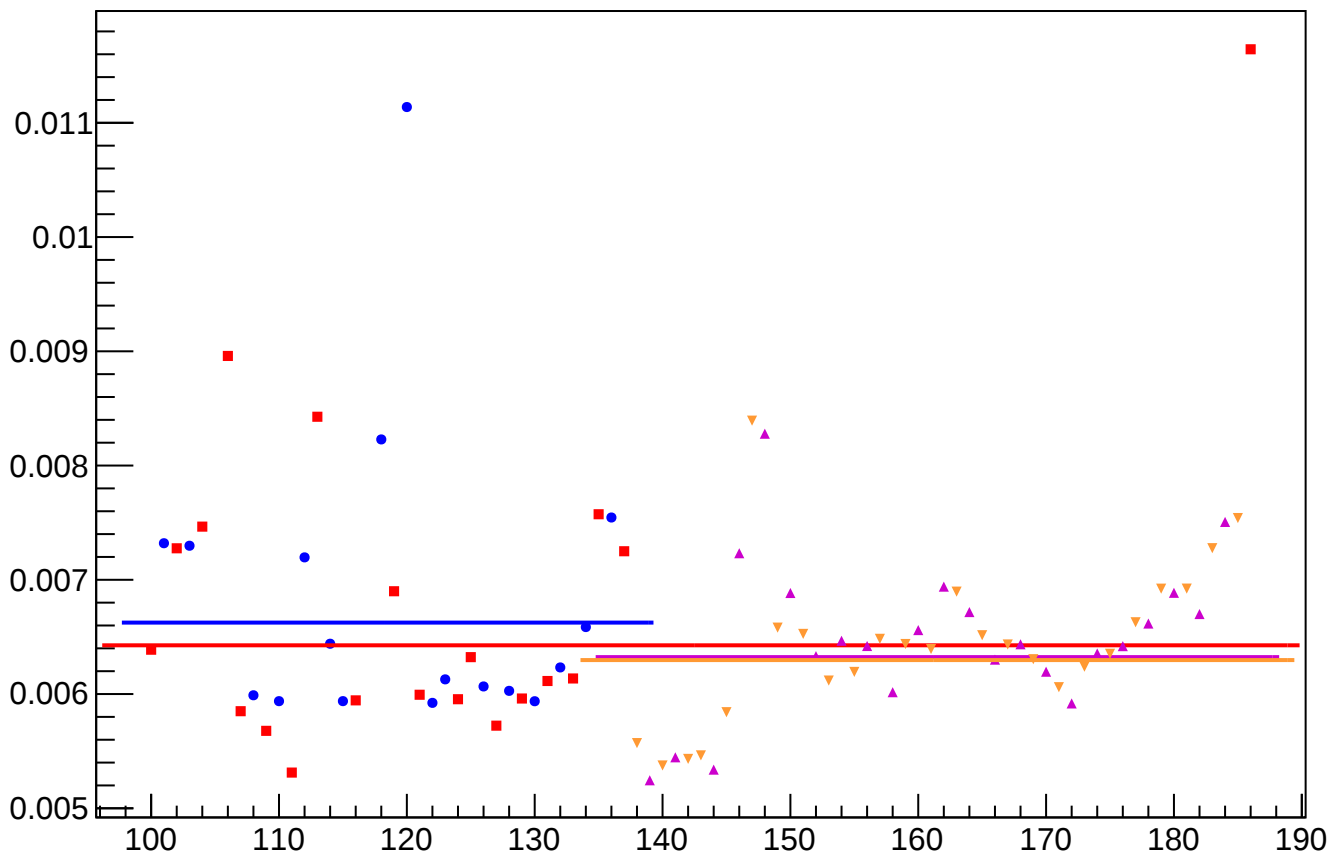
Right: -1.553+/-0.000 χ^2/NDF : 51788290000.0/36

In: -1.623+/-0.000 χ^2/NDF : 39748144047.2/39

Out: -1.648+/-0.000 χ^2/NDF : 47359264765.1/44

All: -1.636+/-0.000 χ^2/NDF : 87282283357.4/100

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2/NDF : 231716.4/16

Left Out: 0.006 $\pm$ 0.000 χ^2/NDF : 310757.0/24

Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 368614.7/19

Left In: 0.006 $\pm$ 0.000 χ^2/NDF : 330859.7/22

Left: 0.006 $\pm$ 0.000 χ^2/NDF : 641901.9/47

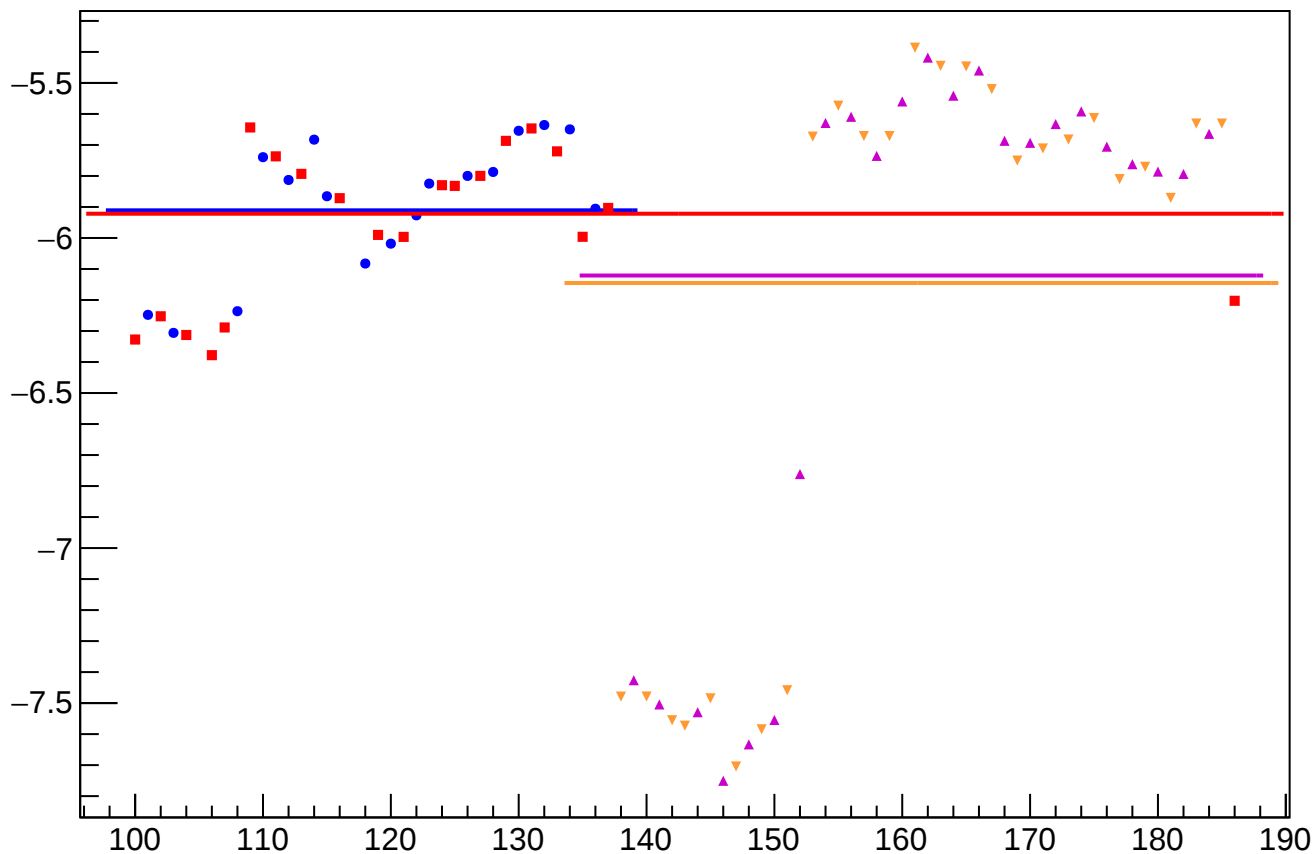
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 606289.9/36

In: 0.006 $\pm$ 0.000 χ^2/NDF : 581452.9/39

Out: 0.006 $\pm$ 0.000 χ^2/NDF : 683398.6/44

All: 0.006 $\pm$ 0.000 χ^2/NDF : 1267419.6/84

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.911+/-0.000 χ^2/NDF : 11134606775.1/16

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.922+/-0.000 χ^2/NDF : 12960370976.1/19

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

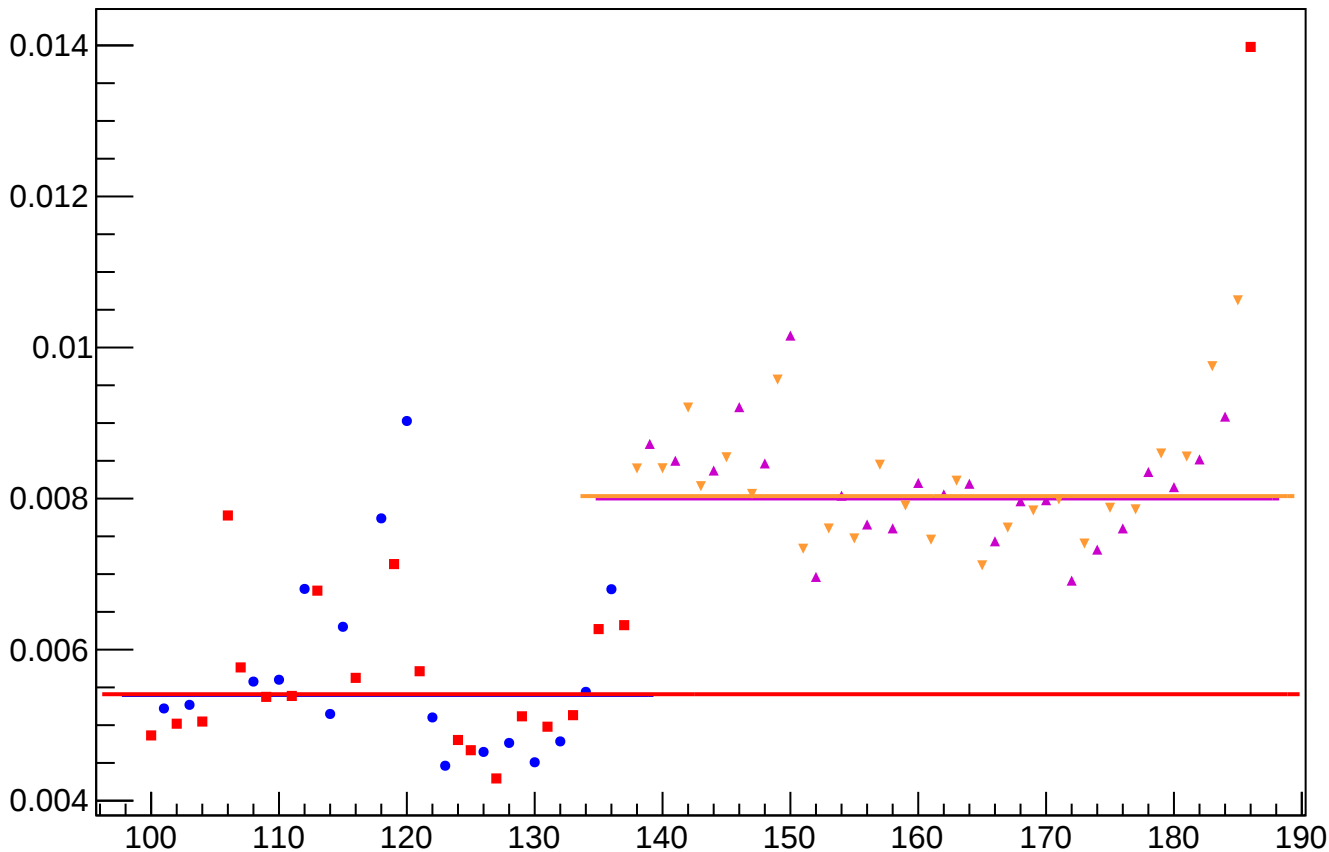
Right: -5.917+/-0.000 χ^2/NDF : 24107624028.8/36

In: -6.026+/-0.000 χ^2/NDF : 174356028007.9/39

Out: -6.041+/-0.000 χ^2/NDF : 204306191808.6/44

All: -6.034+/-0.000 χ^2/NDF : 378711535245.8

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 370479.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.005+/-0.000 χ^2/NDF : 518177.6/19

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

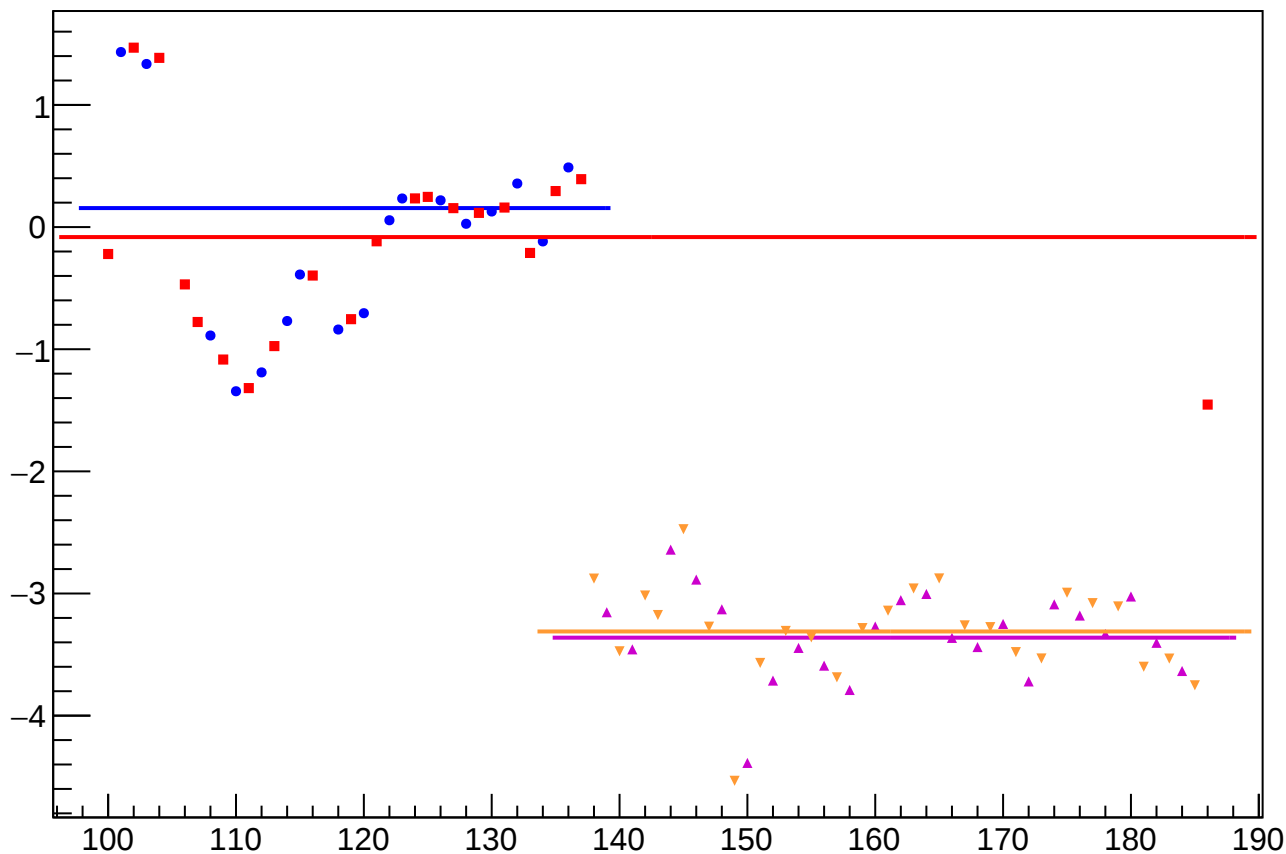
Right: 0.005+/-0.000 χ^2/NDF : 888677.0/36

In: 0.007+/-0.000 χ^2/NDF :2093887.6/39

Out: 0.007+/-0.000 χ^2/NDF :2373165.7/44

All: 0.007+/-0.000 χ^2/NDF : 4467249.7/84

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.156+/-0.000 χ^2/NDF : 16968312396.2/16

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.082+/-0.000 χ^2/NDF : 22974726575.4/19

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

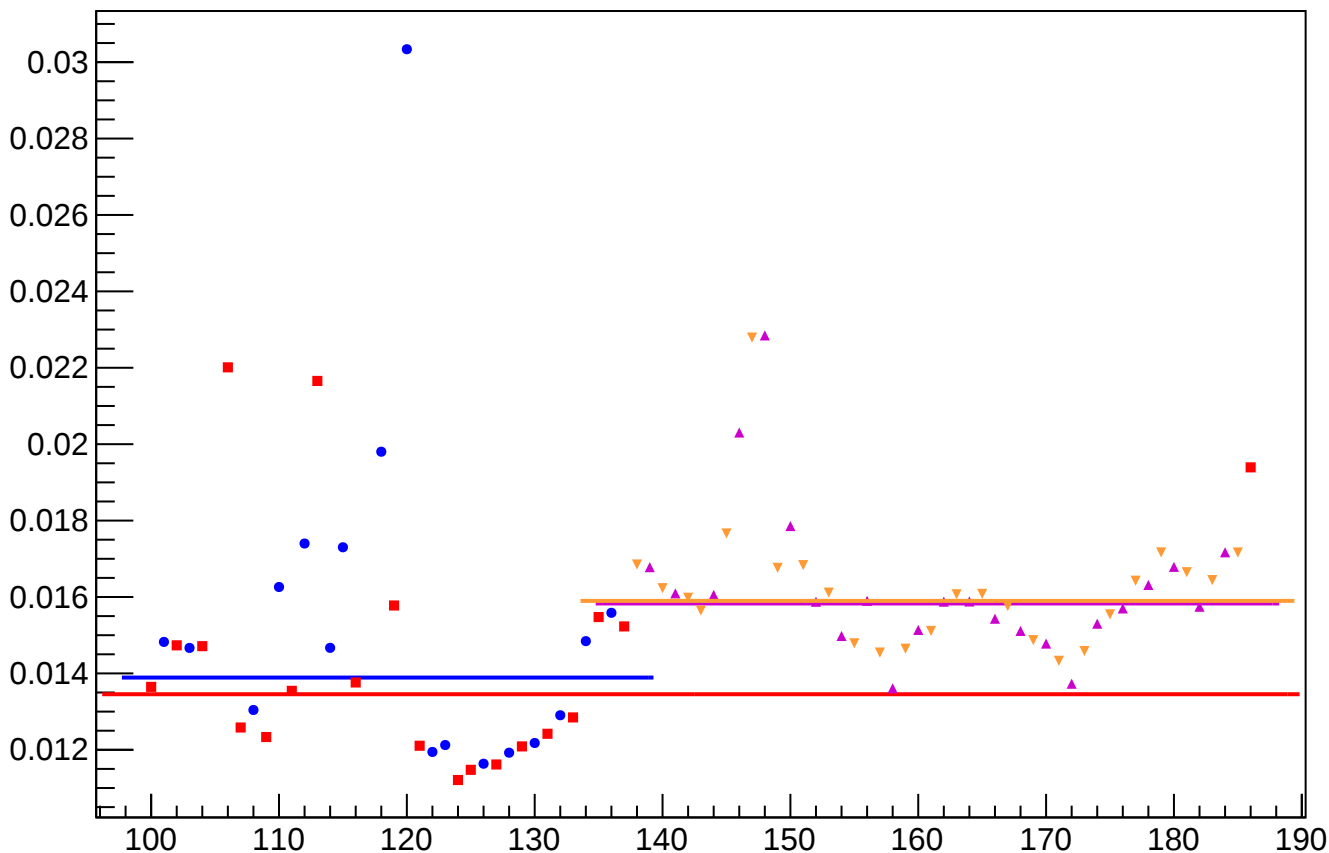
Right: 0.025+/-0.000 χ^2/NDF : 40889838131.4/36

In: -2.251+/-0.000 χ^2/NDF : 283913919741.0/39

Out: -2.188+/-0.000 χ^2/NDF : 285890388516.0/44

All: -2.218+/-0.000 χ^2/NDF : 570007752913.1

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 401280.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 360027.1/19

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

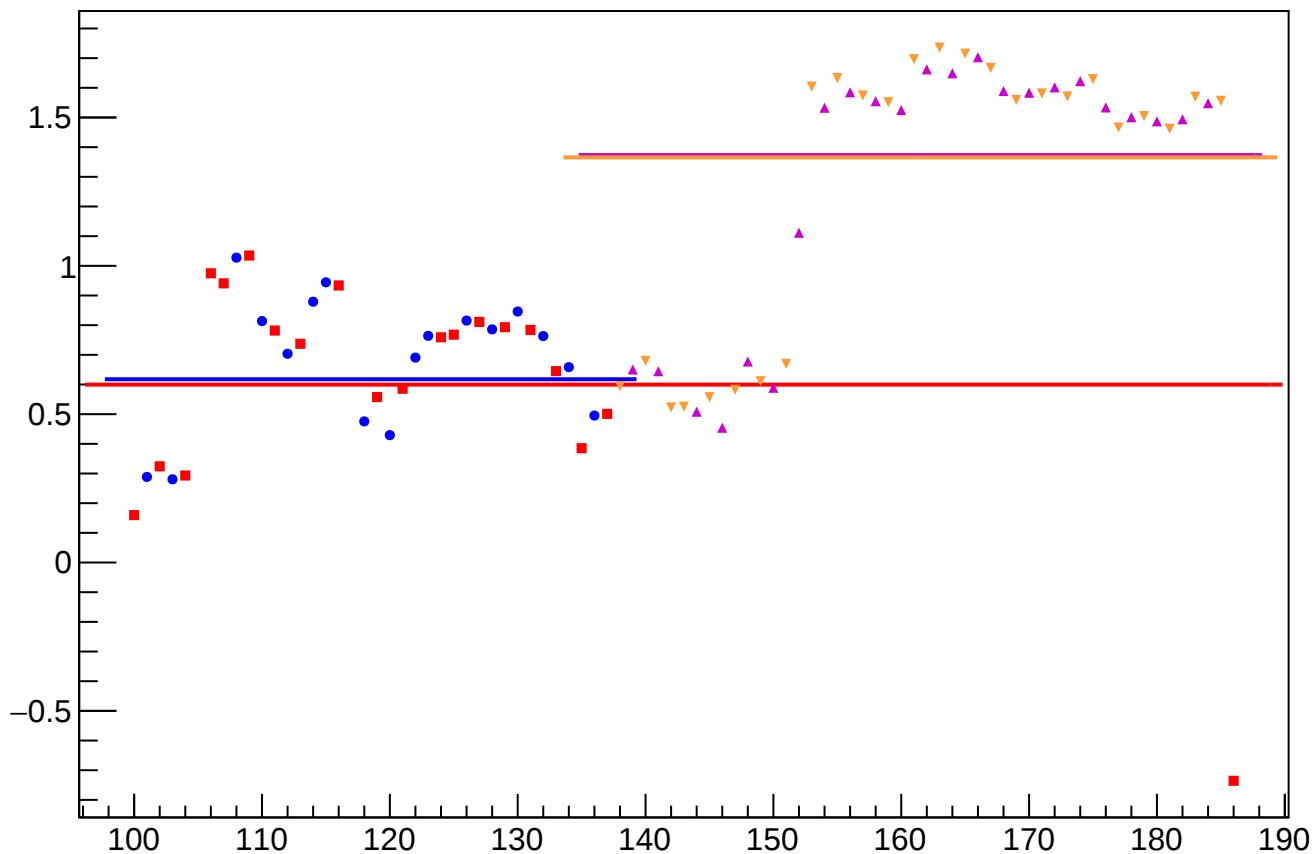
Right: 0.014+/-0.000 χ^2/NDF : 767697.8/36

In: 0.015+/-0.000 χ^2/NDF :898212.7/39

Out: 0.015+/-0.000 χ^2/NDF :902327.8/44

All: 0.015+/-0.000 χ^2/NDF : 1803468.5/84

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.618 $\pm$ 0.000 χ^2 /NDF: 5402179431.9/16

Left Out: 1.366 $\pm$ 0.000 χ^2 /NDF: 74741956067.9/24

Right Out: 0.600 $\pm$ 0.000 χ^2 /NDF: 10393878513.2/19

Left In: 1.373 $\pm$ 0.000 χ^2 /NDF: 63413151416.3/22

Left: 1.369 $\pm$ 0.000 χ^2 /NDF: 138167468300.7/47

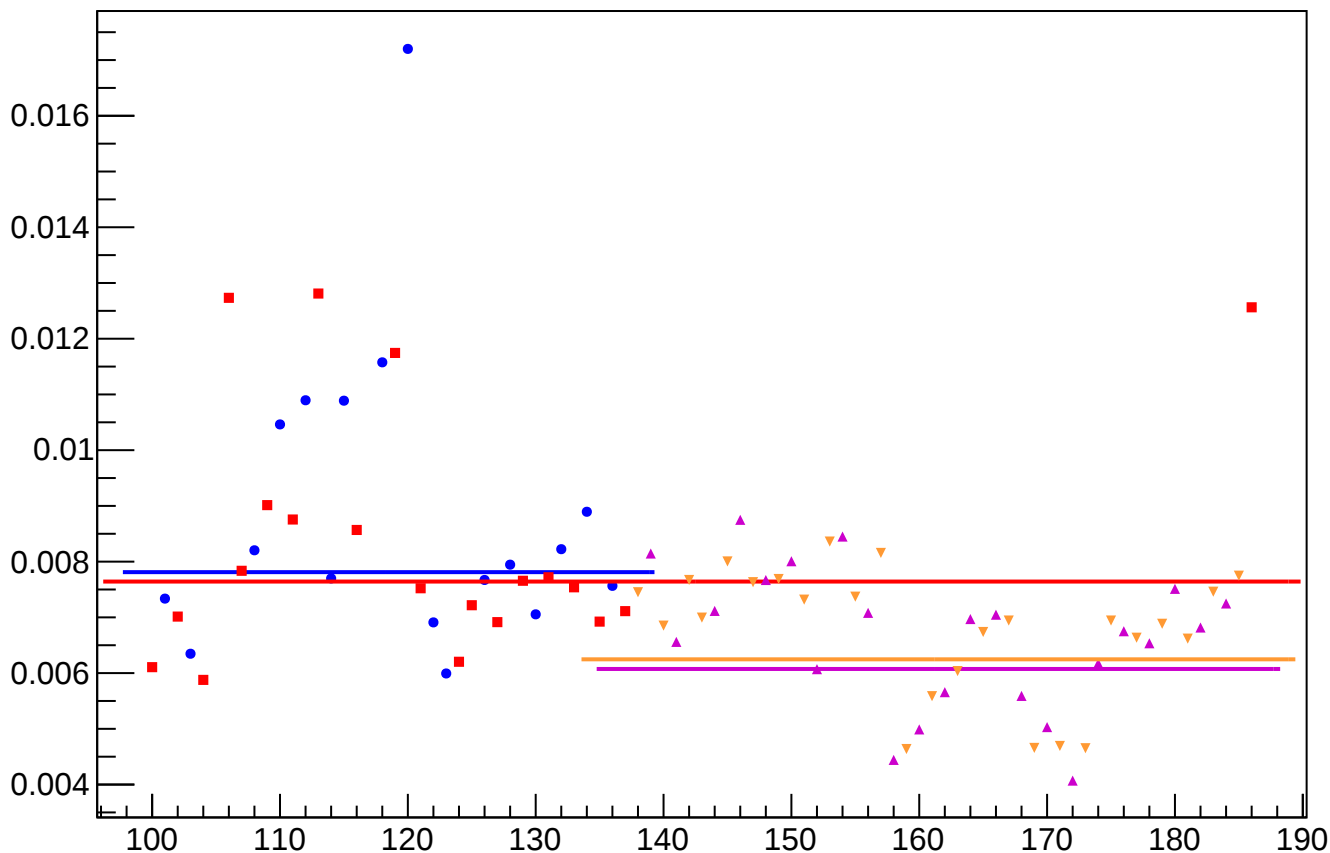
Right: 0.608 $\pm$ 0.000 χ^2 /NDF: 15812896962.3/36

In: 1.236 $\pm$ 0.000 χ^2 /NDF: 113172575549.7/39

Out: 1.207 $\pm$ 0.000 χ^2 /NDF: 136739304643.6/44

All: 1.221 $\pm$ 0.000 χ^2 /NDF: 250125117905.0

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 467235.0/16

Left Out: 0.006+/-0.000 χ^2/NDF :1330867.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 551712.9/19

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2775615.7/47

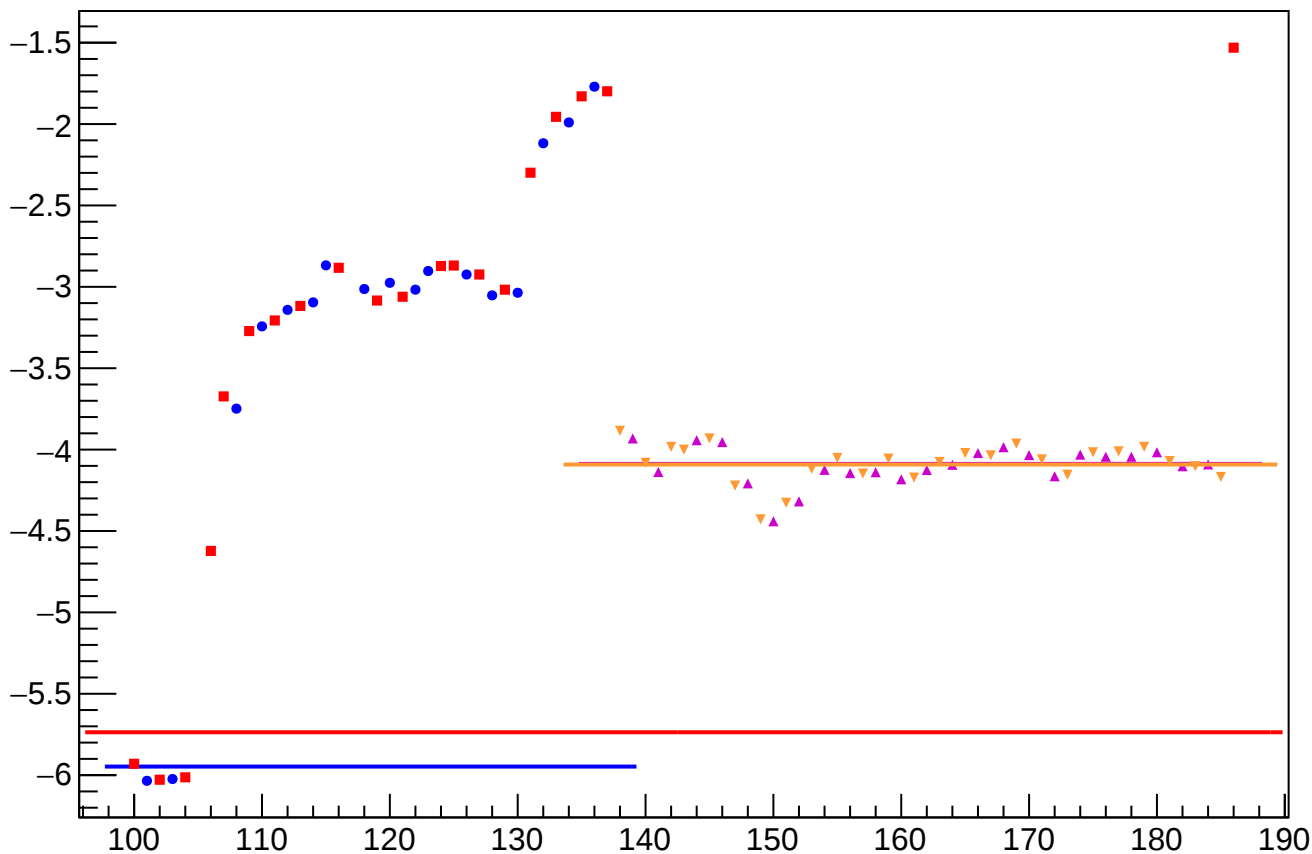
Right: 0.008+/-0.000 χ^2/NDF : 1021865.0/36

In: 0.006+/-0.000 χ^2/NDF :2368410.1/39

Out: 0.007+/-0.000 χ^2/NDF :2225143.6/44

All: 0.006+/-0.000 χ^2/NDF : 4604705.0/84

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13110506154.0/16

Left Out: -4.092+/-0.000 χ^2/NDF : 39806766.7/24

Right Out: -5.737+/-0.000 χ^2/NDF : 44050217811.6/19

Left In: -4.088+/-0.000 χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000 χ^2/NDF : 74248792.8/47

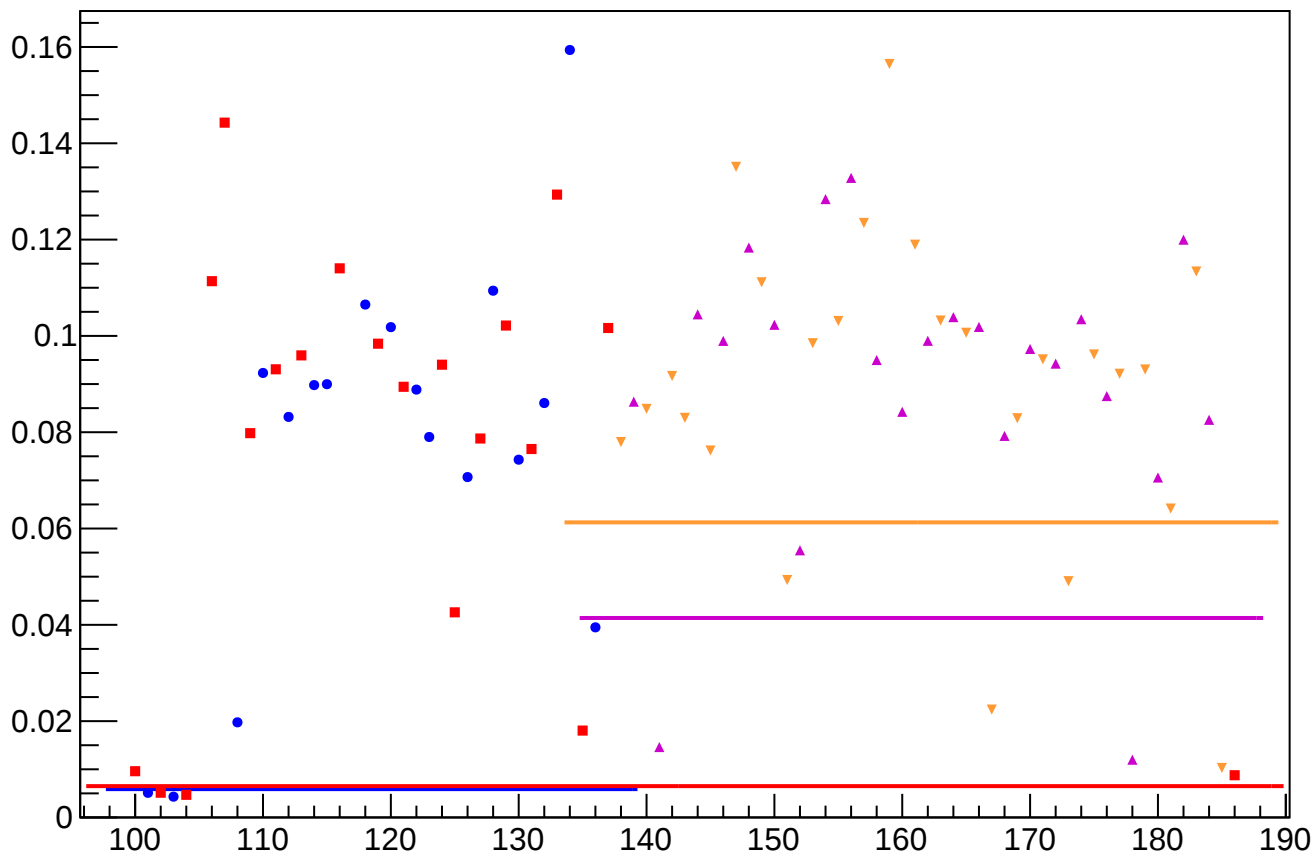
Right: -5.851+/-0.000 χ^2/NDF : 58121268941.8/36

In: -5.794+/-0.000 χ^2/NDF : 26674621593.1/39

Out: -5.623+/-0.000 χ^2/NDF : 51525353623.8/44

All: -5.716+/-0.000 χ^2/NDF : 78882972171.7/77

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7912012.3/16

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 8479427.7/19

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

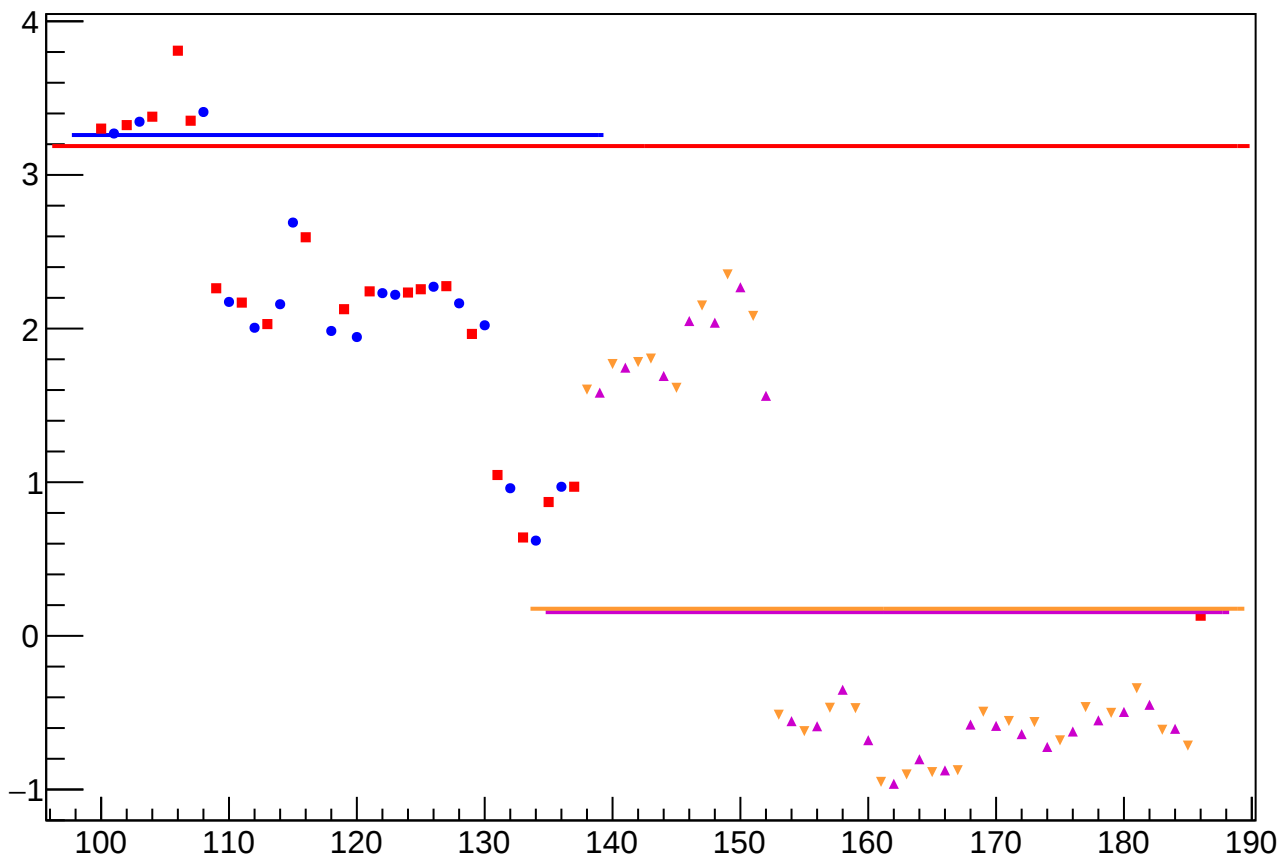
Right: 0.006+/-0.000 χ^2/NDF : 16408114.7/36

In: 0.009+/-0.000 χ^2/NDF : 30920273.3/39

Out: 0.010+/-0.000 χ^2/NDF : 33326689.6/44

All: 0.009+/-0.000 χ^2/NDF : 64348330.5/84

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260 $\pm$ 0.000 χ^2 /NDF: 2914830636.8/16

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF:3275313367.7/24

Right Out: 3.188 $\pm$ 0.000 χ^2 /NDF: 11805023519.0/19

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

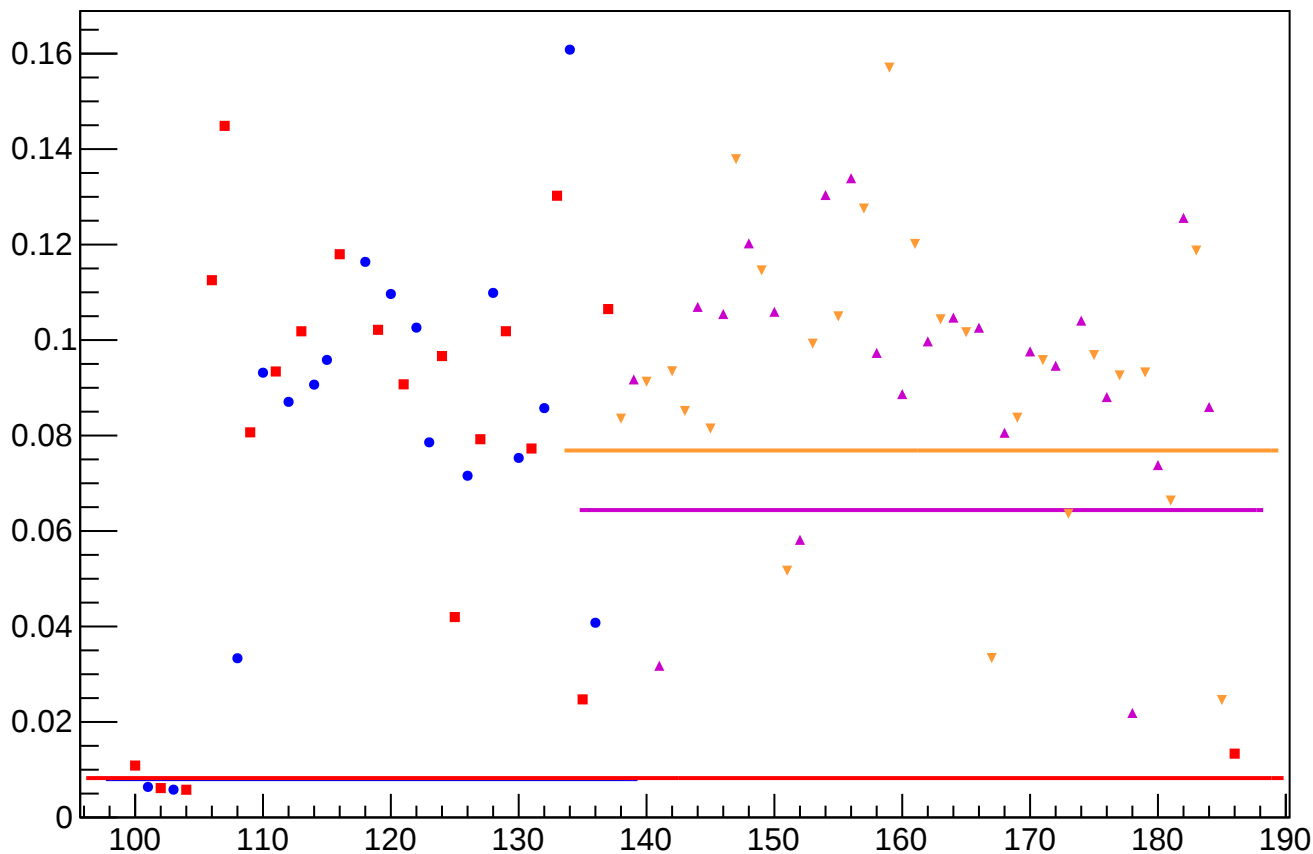
Right: 3.225 $\pm$ 0.000 χ^2 /NDF: 14792154821.3/36

In: 3.004 $\pm$ 0.000 χ^2 /NDF:28905118654.9/39

Out: 2.957 $\pm$ 0.000 χ^2 /NDF:34065367702.8/44

All: 2.981 $\pm$ 0.000 χ^2 /NDF: 63003689523.9/80

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7721103.3/16

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF: 4217954.3/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8322262.3/19

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

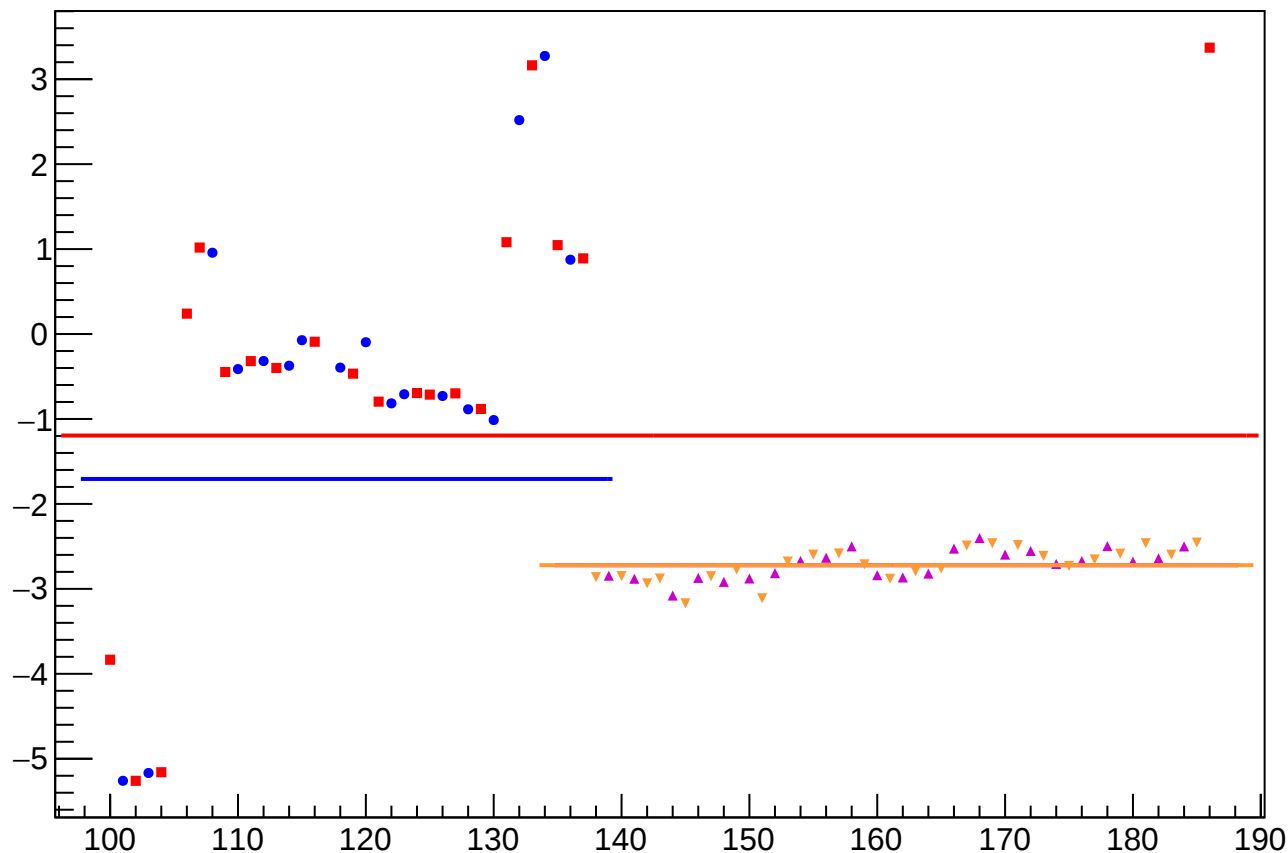
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16044693.4/36

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 29748727.3/39

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 32258510.1/44

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 62028262.4/84

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.706+/-0.000 χ^2/NDF : 166152957432.2/16

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.195+/-0.000 χ^2/NDF : 190764365949.6/19

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

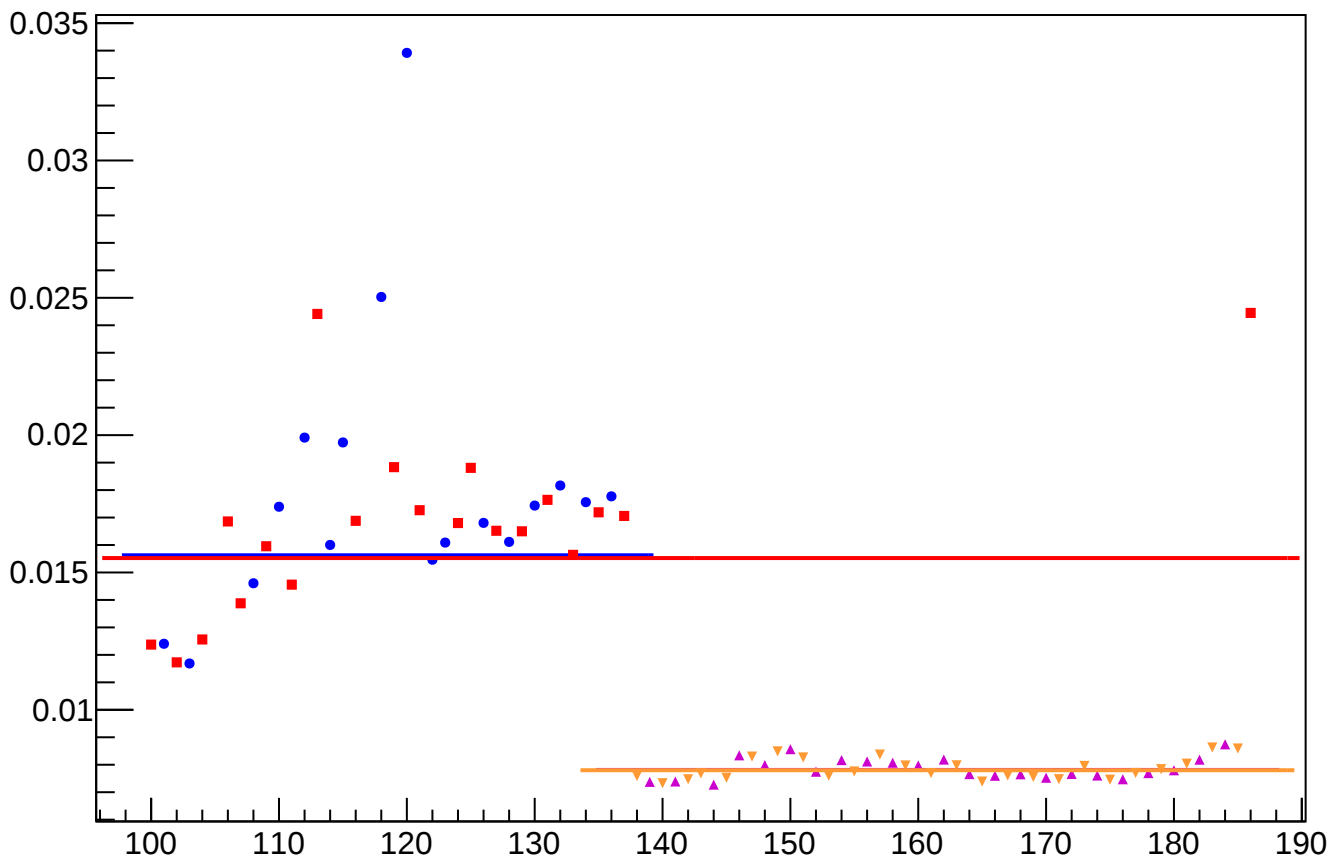
Right: -1.430+/-0.000 χ^2/NDF : 360153747927.9/36

In: -2.644+/-0.000 χ^2/NDF : 196091674468.9/39

Out: -2.592+/-0.000 χ^2/NDF : 258555751528.5/44

All: -2.617+/-0.000 χ^2/NDF : 455055073281.5

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.000 χ^2/NDF : 576262.6/16

Left Out: 0.008 $\pm$ 0.000 χ^2/NDF : 71164.4/24

Right Out: 0.016 $\pm$ 0.000 χ^2/NDF : 443528.5/19

Left In: 0.008 $\pm$ 0.000 χ^2/NDF : 67610.2/22

Left: 0.008 $\pm$ 0.000 χ^2/NDF : 138804.4/47

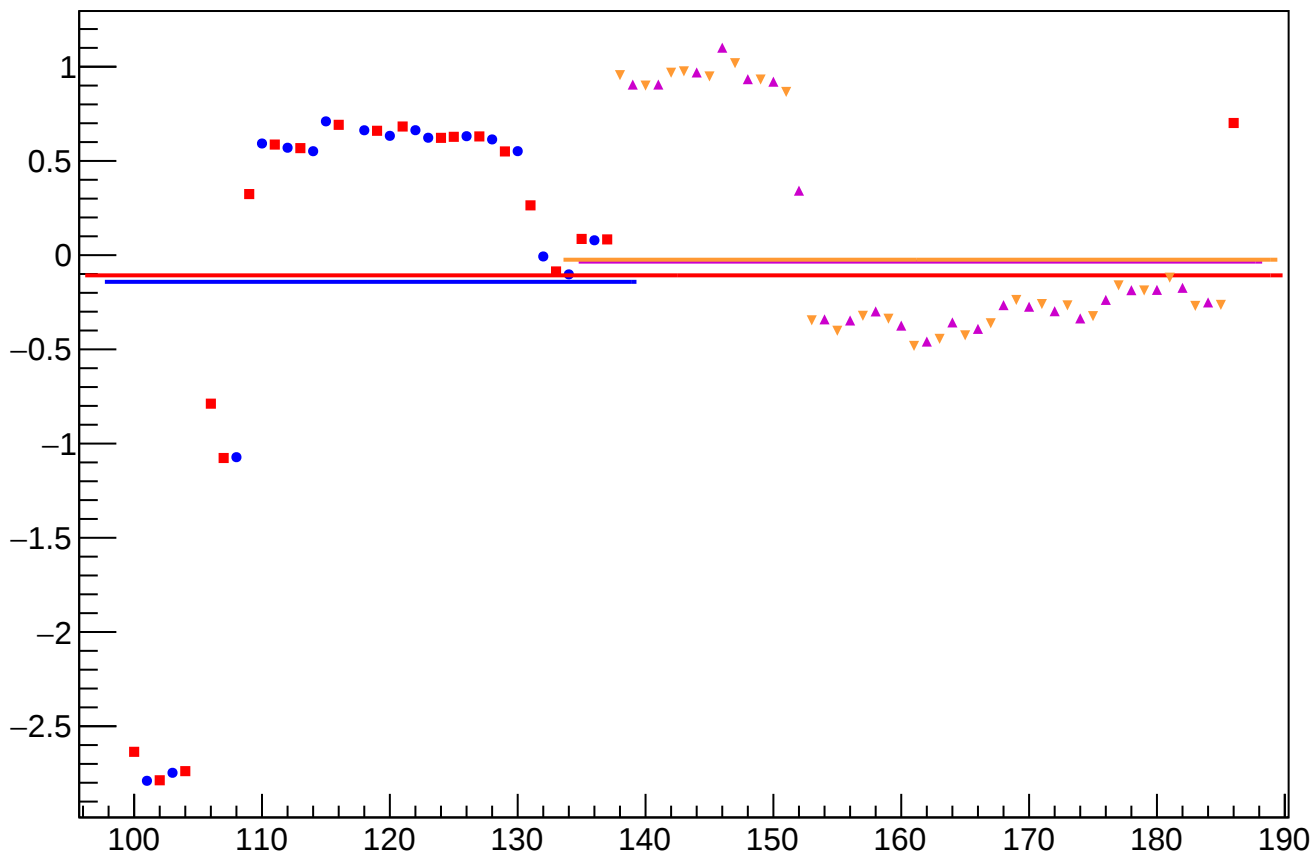
Right: 0.016 $\pm$ 0.000 χ^2/NDF : 1020044.9/36

In: 0.008 $\pm$ 0.000 χ^2/NDF : 3224593.1/39

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 3454063.7/44

All: 0.008 $\pm$ 0.000 χ^2/NDF : 6679159.6/84

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.142 ± 0.000 $\chi^2/\text{NDF}: 713960839307.6/16$

Left Out: -0.024 ± 0.000 $\chi^2/\text{NDF}: 135451649275.0/24$

Right Out: -0.107 ± 0.000 $\chi^2/\text{NDF}: 770026930029.3/19$

Left In: -0.034 ± 0.000 $\chi^2/\text{NDF}: 113929060918.1/22$

Left: -0.029 ± 0.000 $\chi^2/\text{NDF}: 249405201350.6/47$

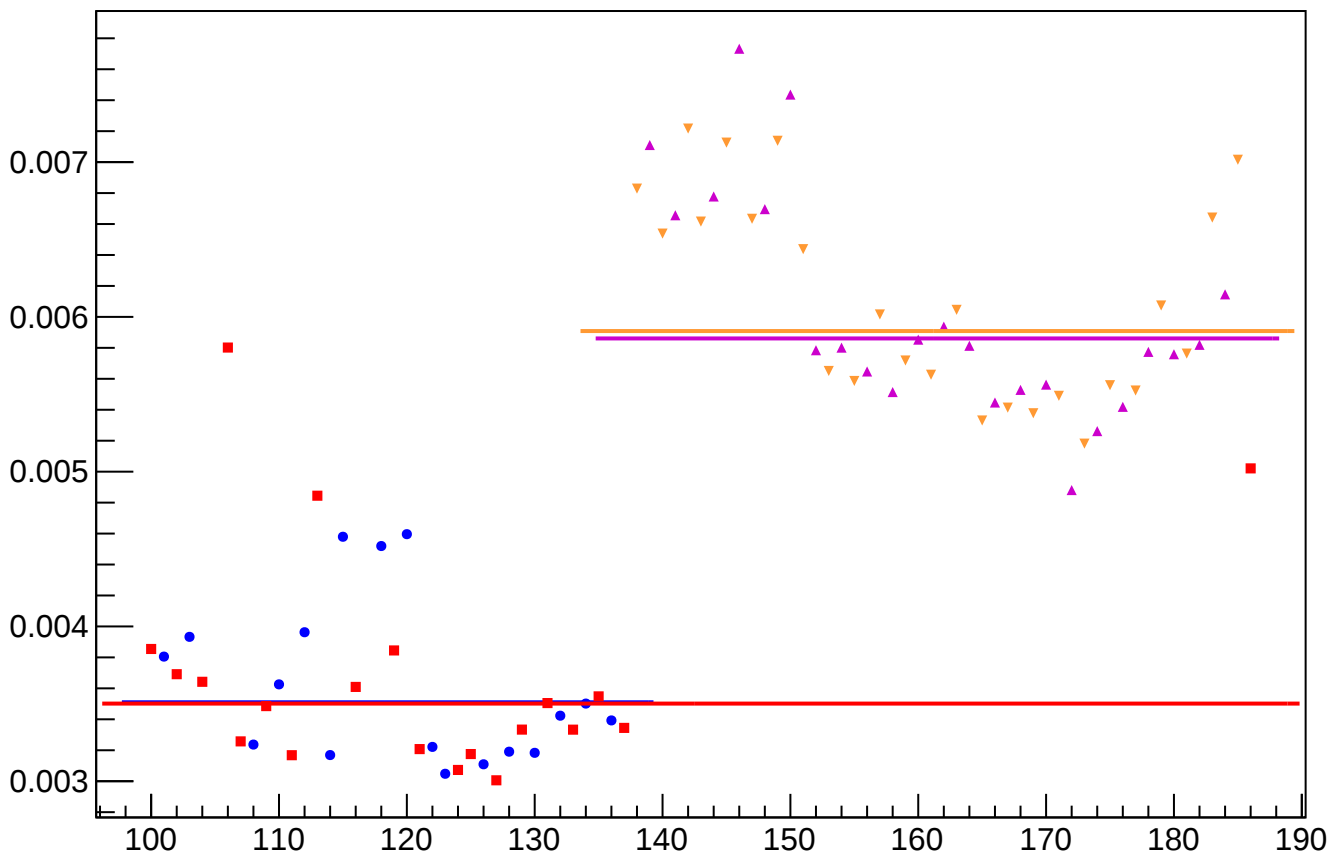
Right: -0.123 ± 0.000 $\chi^2/\text{NDF}: 1484306571052.4/3$

In: -0.090 ± 0.000 $\chi^2/\text{NDF}: 830692306788.9/39$

Out: -0.069 ± 0.000 $\chi^2/\text{NDF}: 907284763402.4/44$

All: -0.079 ± 0.000 $\chi^2/\text{NDF}: 1738205425199$

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 171943.8/16

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:314309.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 281822.2/19

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:364512.1/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 679905.3/47

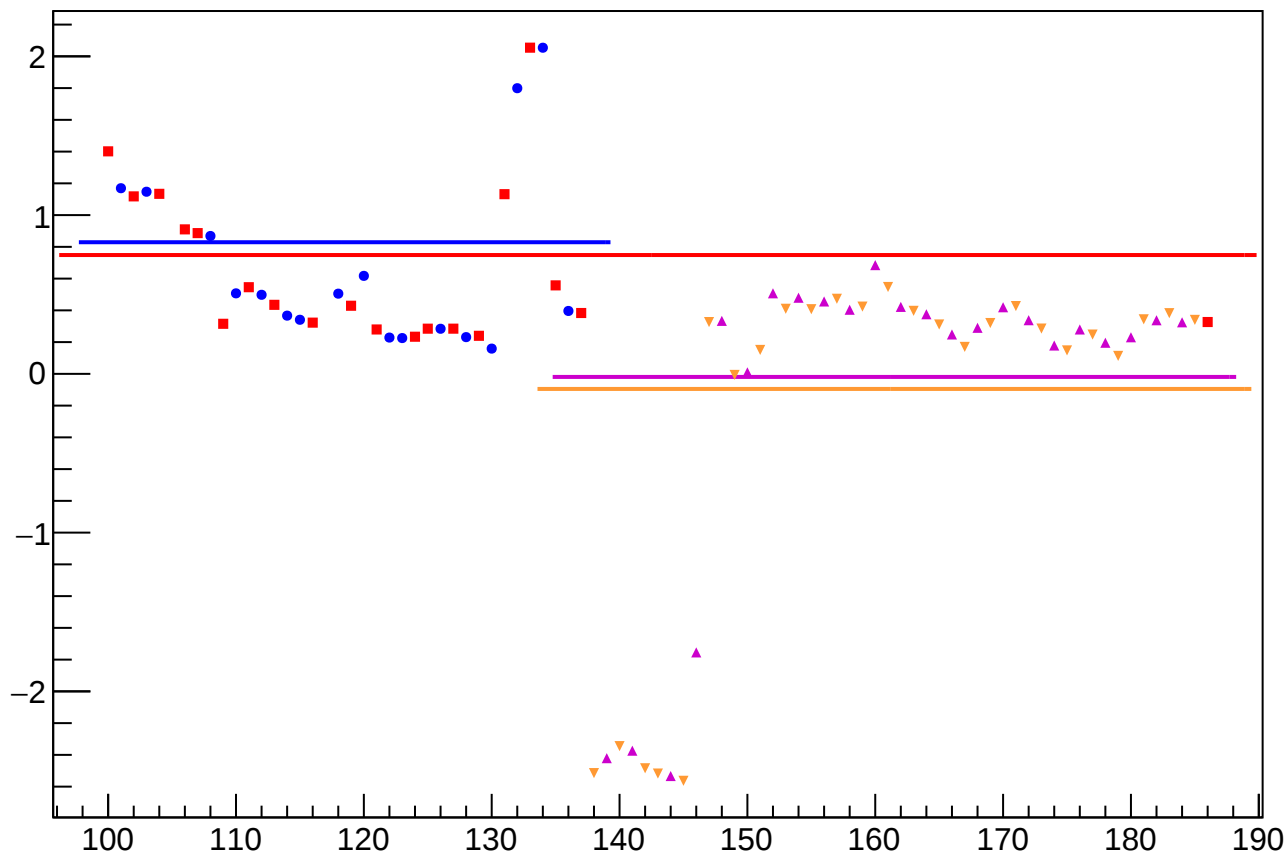
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 453803.9/36

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3228297.3/39

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:3630239.7/44

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 6859334.2/84

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829 ± 0.000 $\chi^2/\text{NDF}: 31663410264.3/16$

Left Out: -0.095 ± 0.000 $\chi^2/\text{NDF}: 505606573631.9/24$

Right Out: 0.748 ± 0.000 $\chi^2/\text{NDF}: 39745092507.3/19$

Left In: -0.019 ± 0.000 $\chi^2/\text{NDF}: 417104863944.5/22$

Left: -0.058 ± 0.000 $\chi^2/\text{NDF}: 924153662333.7/47$

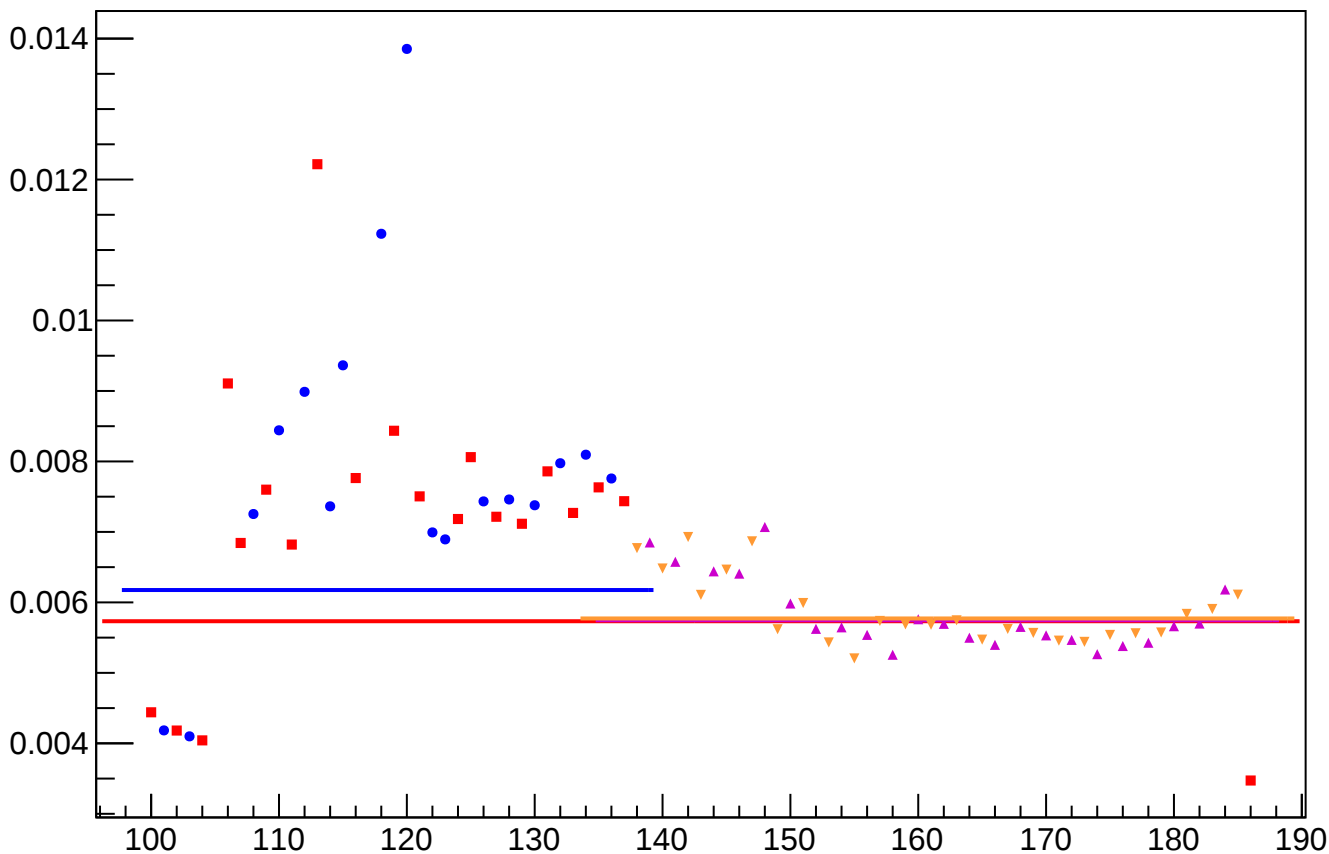
Right: 0.783 ± 0.000 $\chi^2/\text{NDF}: 71920844271.7/36$

In: 0.167 ± 0.000 $\chi^2/\text{NDF}: 526855986998.4/39$

Out: 0.125 ± 0.000 $\chi^2/\text{NDF}: 640952538804.8/44$

All: 0.145 ± 0.000 $\chi^2/\text{NDF}: 1168398604812.7/100$

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1221890.6/16

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1385774.3/19

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

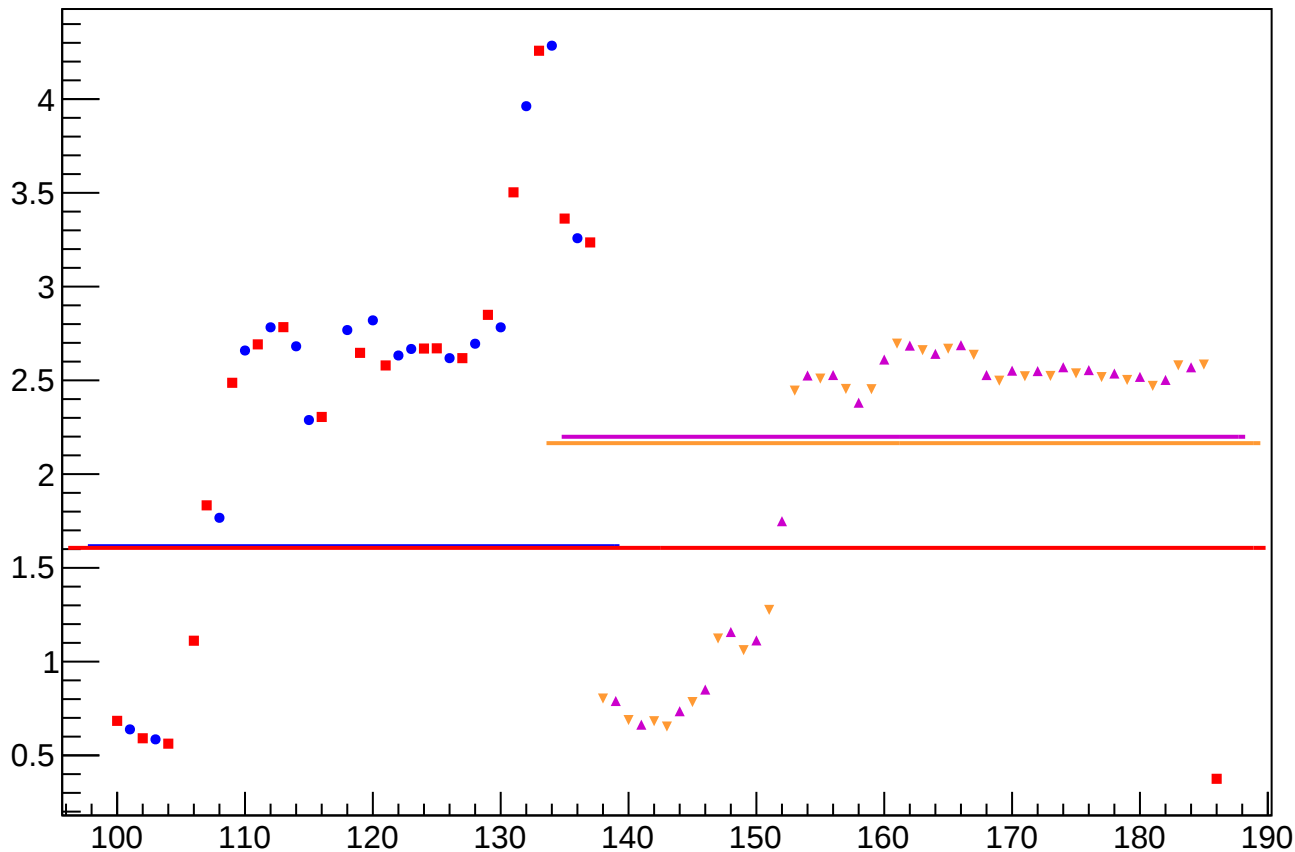
Right: 0.006+/-0.000 χ^2/NDF : 2638553.3/36

In: 0.006+/-0.000 χ^2/NDF :1465904.8/39

Out: 0.006+/-0.000 χ^2/NDF :1563868.4/44

All: 0.006+/-0.000 χ^2/NDF : 3033910.9/84

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.616+/-0.000 χ^2/NDF : 202687681737.9/16

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.607+/-0.000 χ^2/NDF : 246467374280.5/19

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

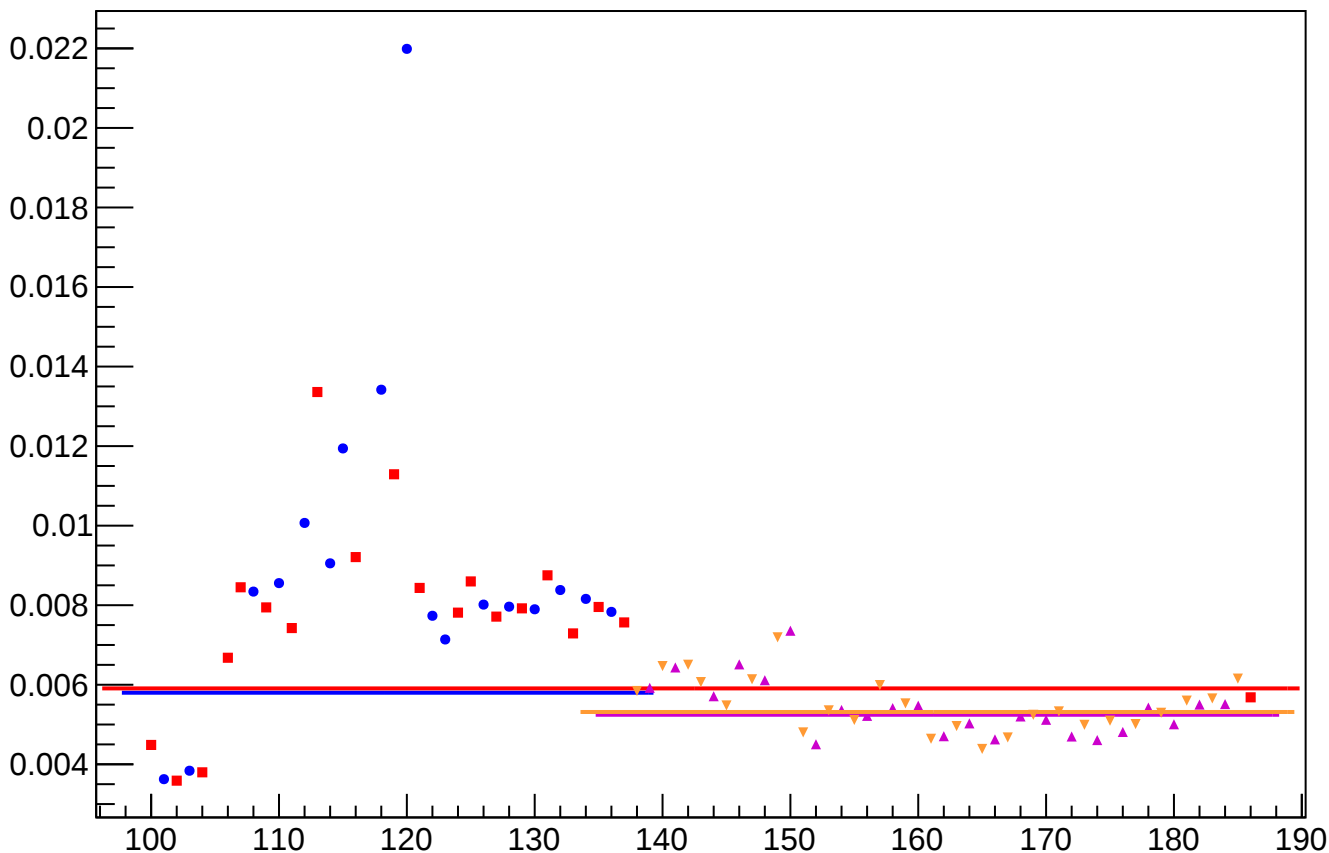
Right: 1.611+/-0.000 χ^2/NDF : 449161150501.4/36

In: 2.082+/-0.000 χ^2/NDF : 494828354987.6/39

Out: 2.043+/-0.000 χ^2/NDF : 579203322205.5/44

All: 2.062+/-0.000 χ^2/NDF : 1074592320326

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1911401.2/16

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1678458.9/19

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

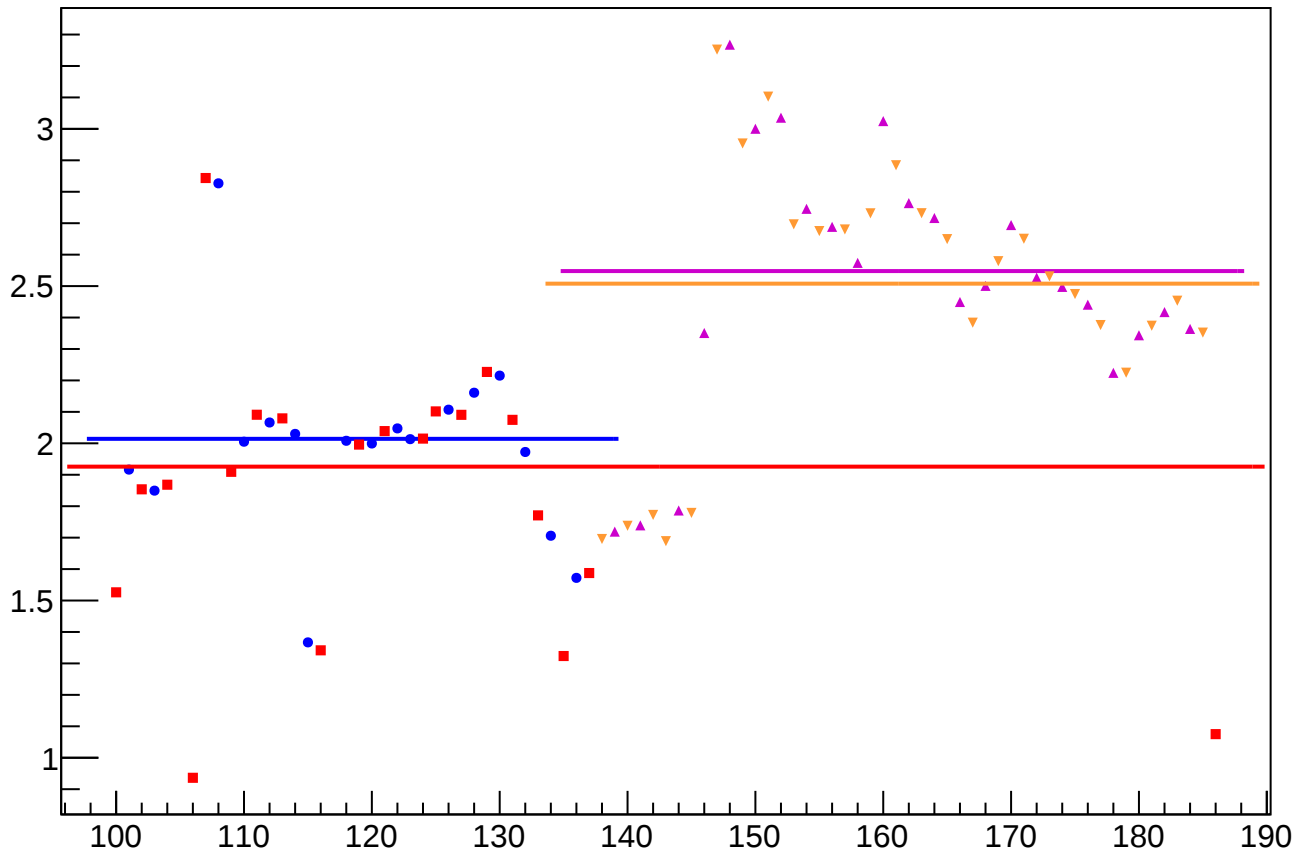
Right: 0.006+/-0.000 χ^2/NDF : 3591654.7/36

In: 0.005+/-0.000 χ^2/NDF :2407511.5/39

Out: 0.005+/-0.000 χ^2/NDF :2167224.0/44

All: 0.005+/-0.000 χ^2/NDF : 4580428.7/84

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.014 $\pm$ 0.000 χ^2 /NDF: 12207088036.2/16

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.926 $\pm$ 0.000 χ^2 /NDF: 23707679607.4/19

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

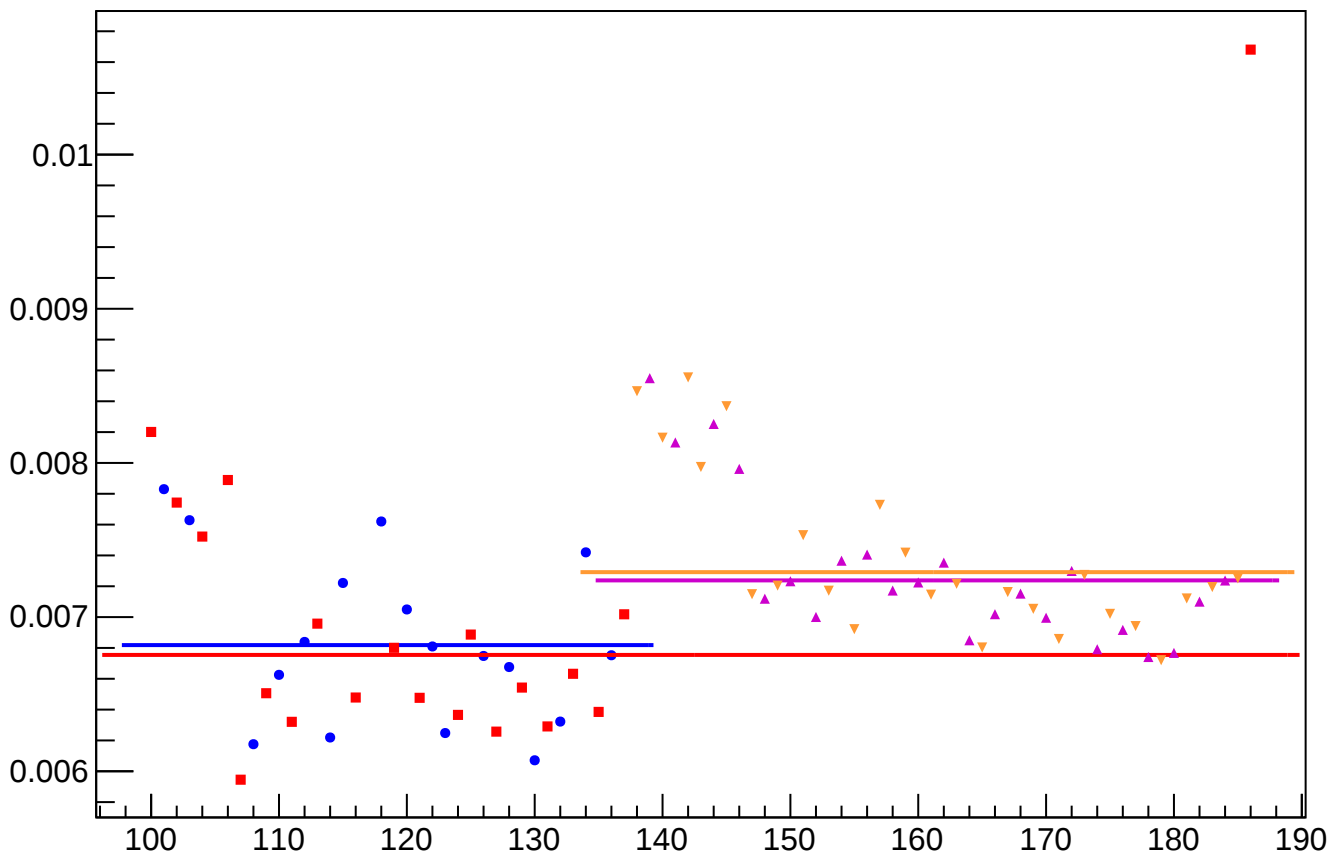
Right: 1.967 $\pm$ 0.000 χ^2 /NDF: 36481572856.3/36

In: 2.387 $\pm$ 0.000 χ^2 /NDF: 84687094358.6/39

Out: 2.321 $\pm$ 0.000 χ^2 /NDF: 111708909952.4/44

All: 2.353 $\pm$ 0.000 χ^2 /NDF: 197415757478.3

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 76886.5/16

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 174359.1/19

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

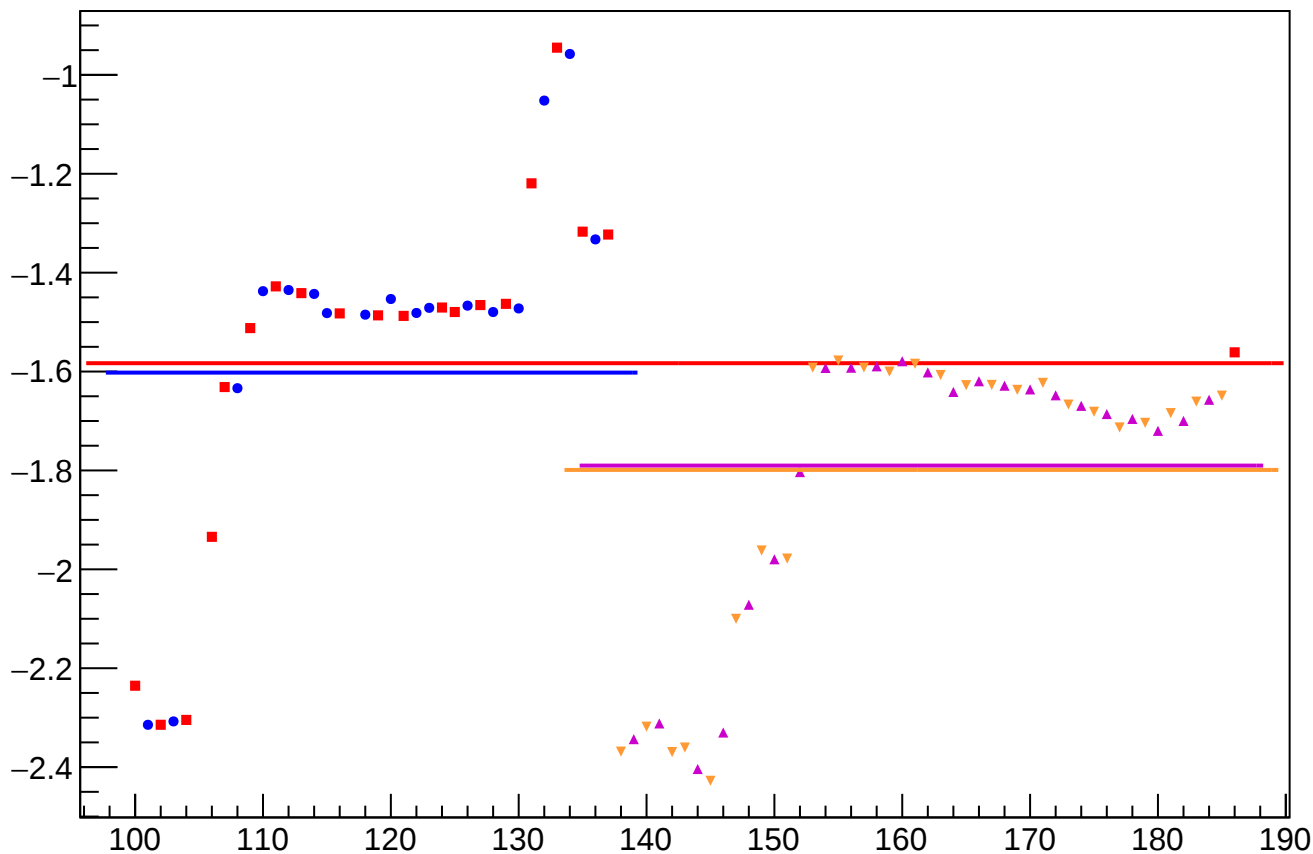
Right: 0.007+/-0.000 χ^2/NDF : 251835.4/36

In: 0.007+/-0.000 χ^2/NDF :235686.9/39

Out: 0.007+/-0.000 χ^2/NDF :375842.8/44

All: 0.007+/-0.000 χ^2/NDF : 611557.3/84

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602 $\pm$ 0.000 χ^2/NDF : 140170767010.0/16

Left Out: -1.799 $\pm$ 0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.583 $\pm$ 0.000 χ^2/NDF : 143844659240.6/19

Left In: -1.790 $\pm$ 0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795 $\pm$ 0.000 χ^2/NDF : 345099435201.4/47

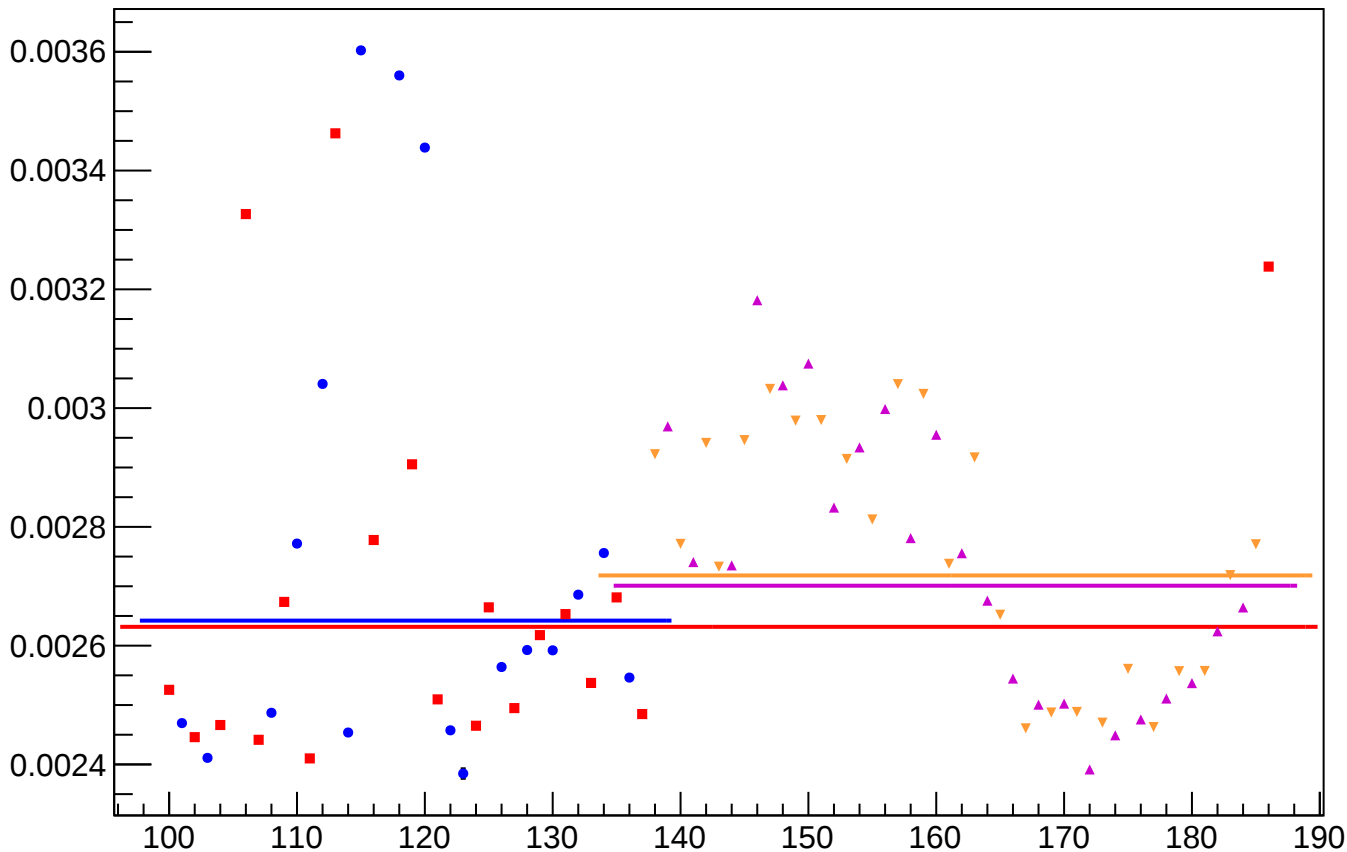
Right: -1.592 $\pm$ 0.000 χ^2/NDF : 284188152250.2/36

In: -1.737 $\pm$ 0.000 χ^2/NDF : 322545853944.5/39

Out: -1.734 $\pm$ 0.000 χ^2/NDF : 362237812394.5/44

All: -1.736 $\pm$ 0.000 χ^2/NDF : 684795963586.4

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151919.2/16

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 131580.5/19

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

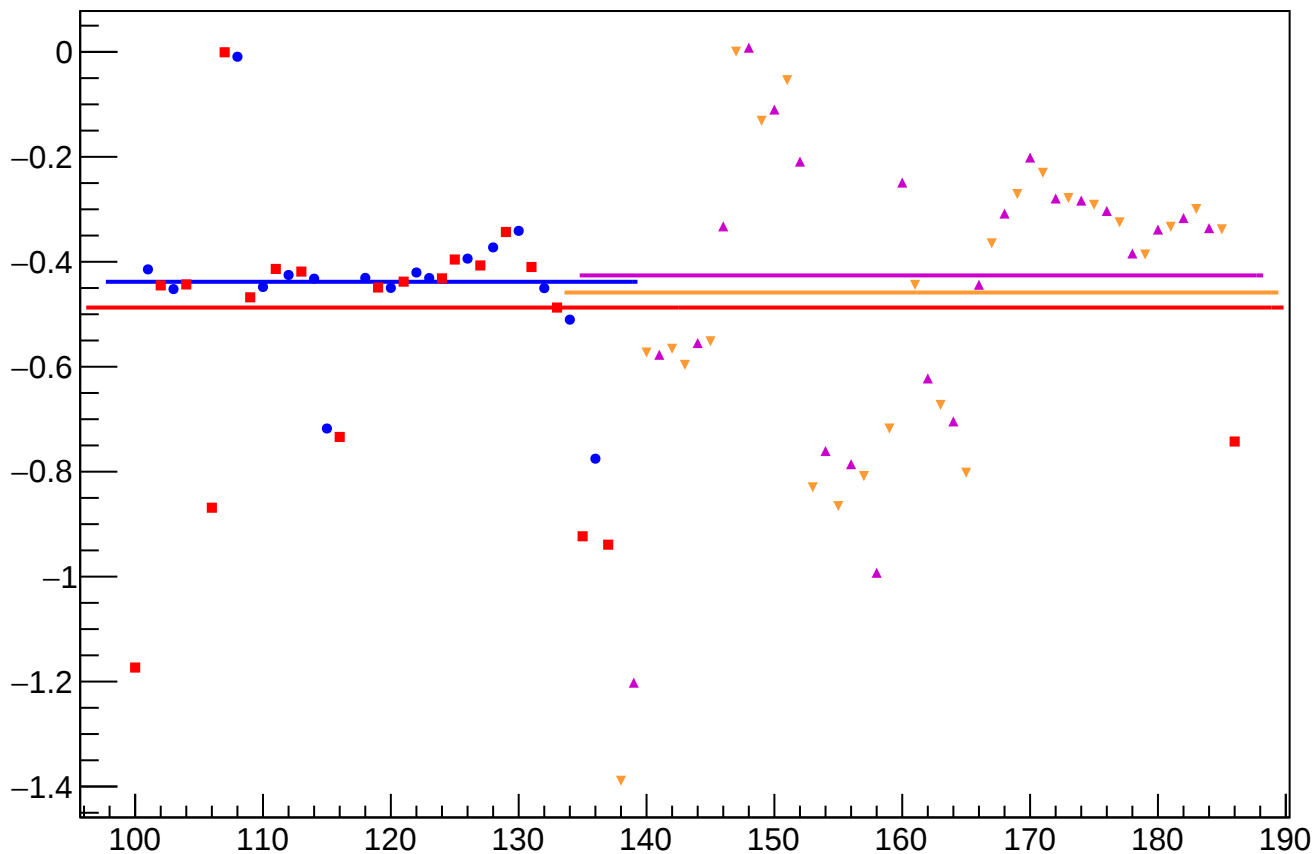
Right: 0.003+/-0.000 χ^2/NDF : 283603.7/36

In: 0.003+/-0.000 χ^2/NDF :376689.7/39

Out: 0.003+/-0.000 χ^2/NDF :341899.2/44

All: 0.003+/-0.000 χ^2/NDF : 718798.0/84

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 ± 0.000 $\chi^2/\text{NDF}: 1461198978.4/16$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.487 ± 0.000 $\chi^2/\text{NDF}: 2767234975.8/19$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

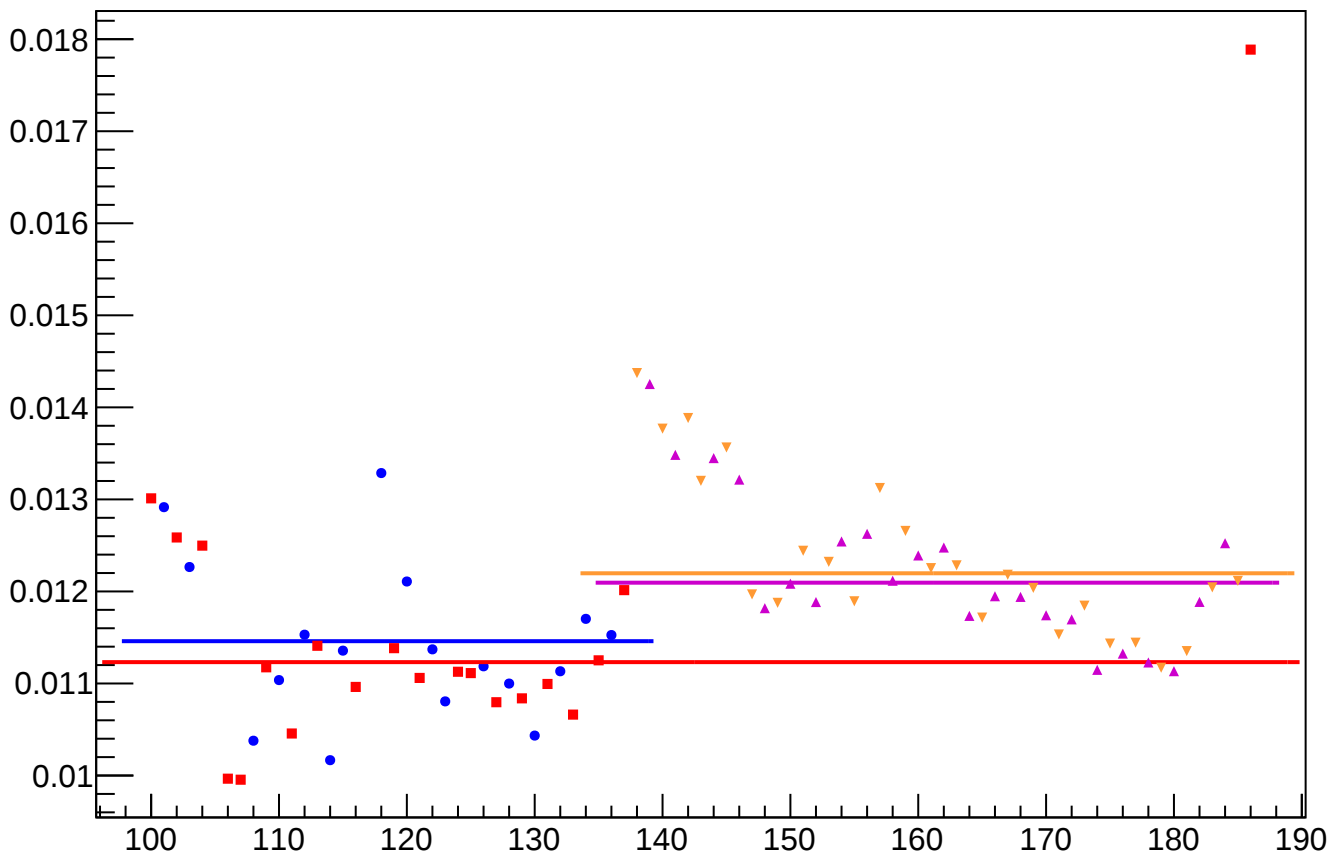
Right: -0.465 ± 0.000 $\chi^2/\text{NDF}: 4292123763.8/36$

In: -0.430 ± 0.000 $\chi^2/\text{NDF}: 9890462777.8/39$

Out: -0.468 ± 0.000 $\chi^2/\text{NDF}: 12715412043.3/44$

All: -0.449 ± 0.000 $\chi^2/\text{NDF}: 22729164833.7/71$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64588.0/16

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 156444.2/19

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

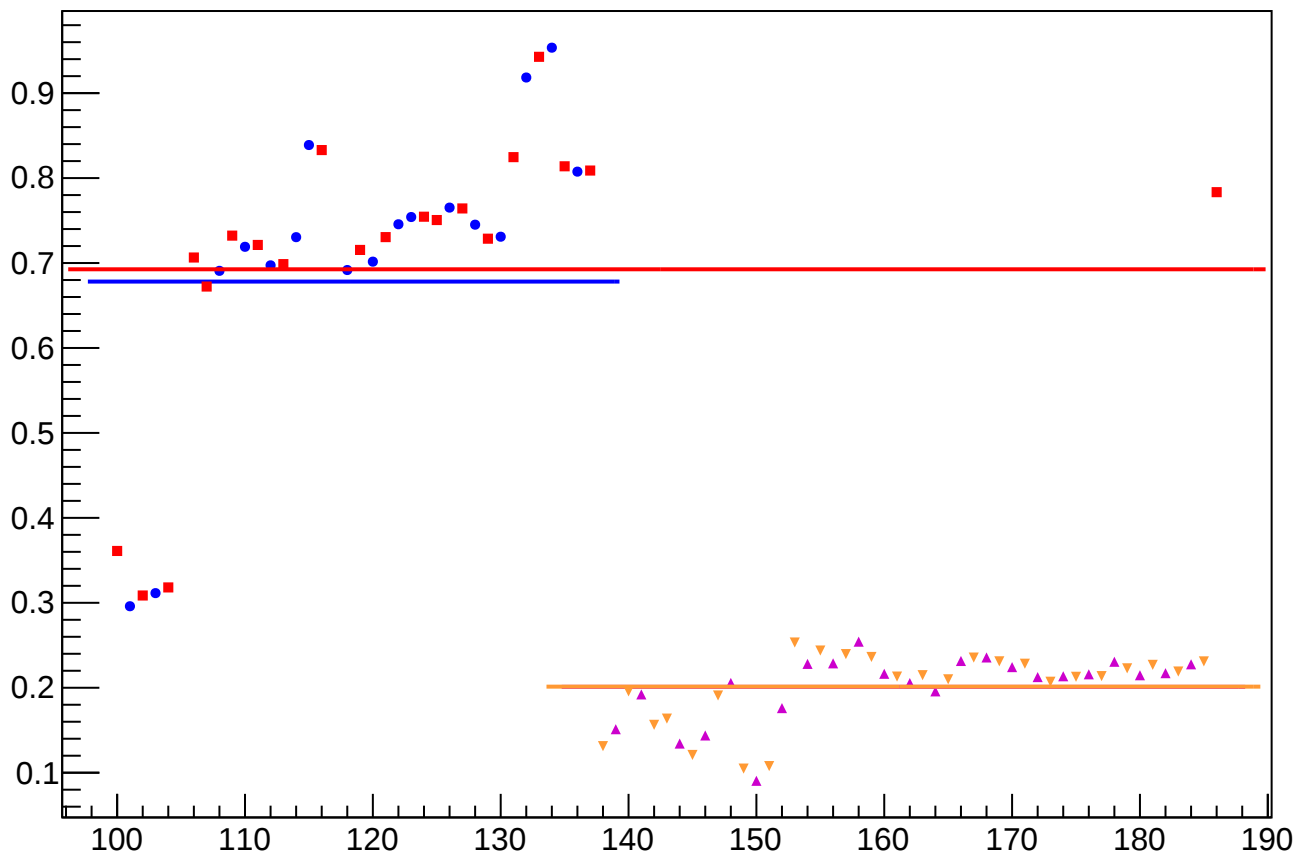
Right: 0.011+/-0.000 χ^2/NDF : 223771.3/36

In: 0.012+/-0.000 χ^2/NDF :219579.9/39

Out: 0.012+/-0.000 χ^2/NDF :370139.8/44

All: 0.012+/-0.000 χ^2/NDF : 589793.4/84

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2 /NDF: 38485337866.0/16

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.693 $\pm$ 0.000 χ^2 /NDF: 35686377380.0/19

Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2 /NDF: 12762673178.0/47

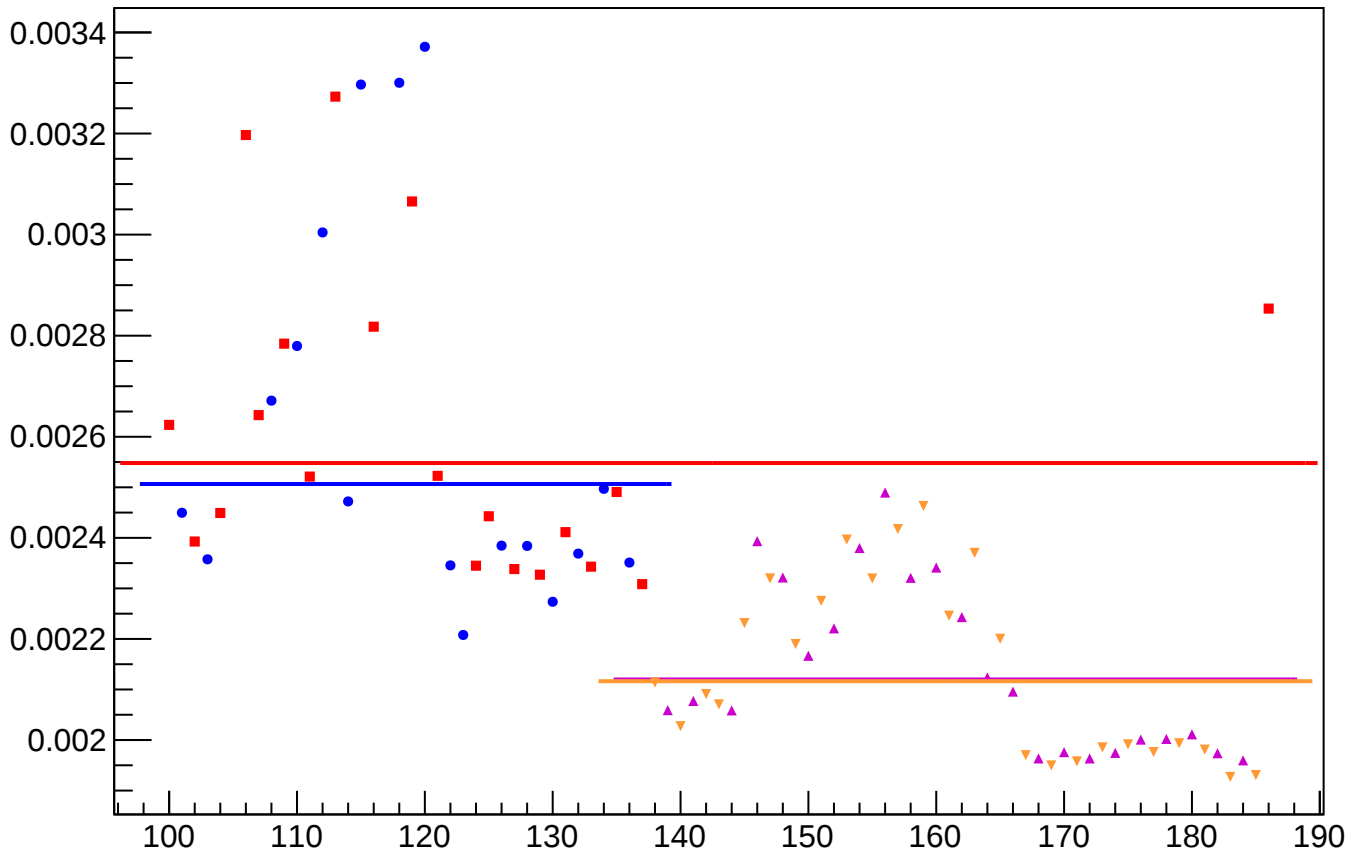
Right: 0.686 $\pm$ 0.000 χ^2 /NDF: 74281088764.3/36

In: 0.301 $\pm$ 0.000 χ^2 /NDF: 225922604984.4/39

Out: 0.305 $\pm$ 0.000 χ^2 /NDF: 249285163136.3/44

All: 0.303 $\pm$ 0.000 χ^2 /NDF: 475249944430.3

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 174398.1/16

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 140510.1/19

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

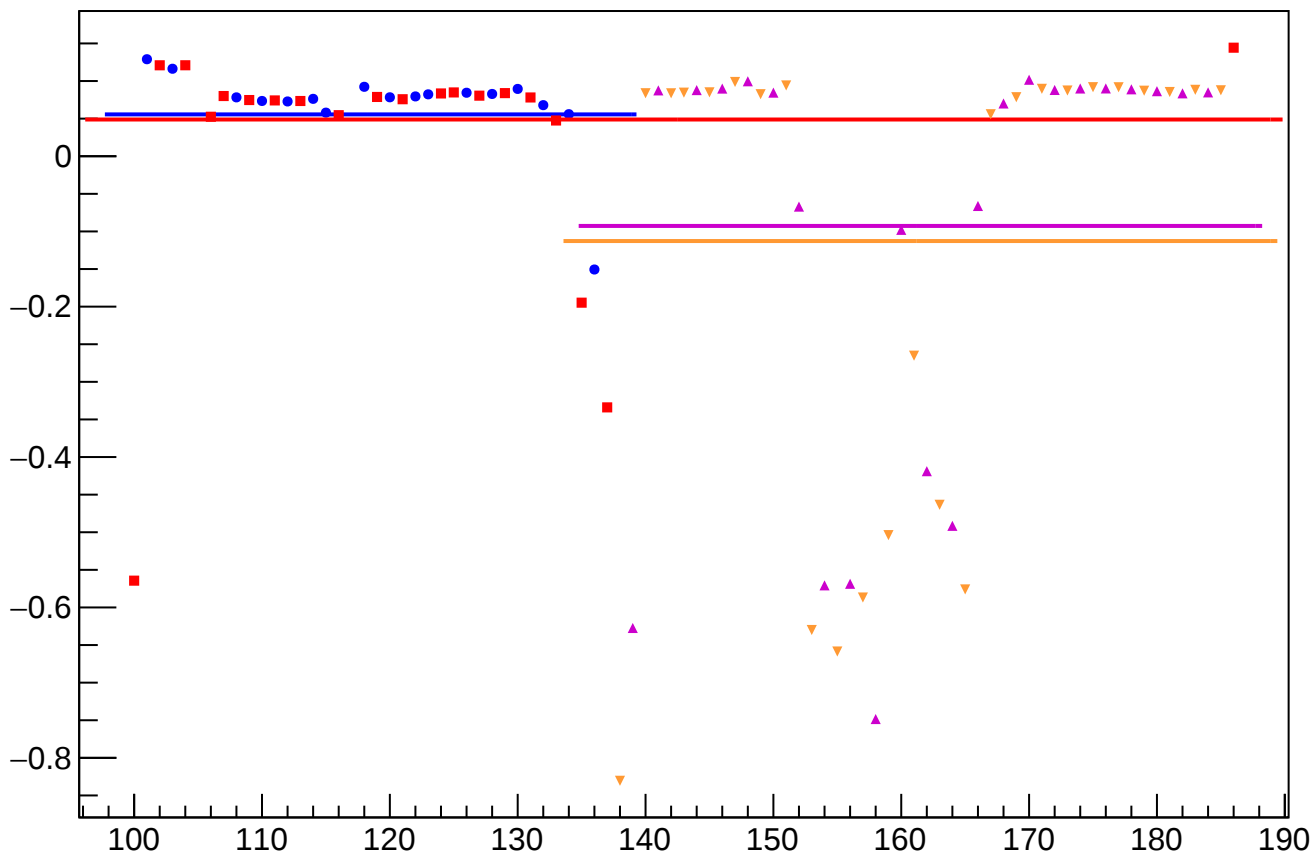
Right: 0.003+/-0.000 χ^2/NDF : 316711.2/36

In: 0.002+/-0.000 χ^2/NDF :602469.5/39

Out: 0.002+/-0.000 χ^2/NDF :683804.5/44

All: 0.002+/-0.000 χ^2/NDF : 1286502.7/84

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000

χ^2 /NDF: 422754930.4/16

Left: -0.103 $\pm$ 0.000

χ^2 /NDF: 24747894543.0/47

Left Out: -0.113 $\pm$ 0.000

χ^2 /NDF: 13667354077.1/24

Right: 0.052 $\pm$ 0.000

χ^2 /NDF: 1256341159.5/36

Right Out: 0.049 $\pm$ 0.000

χ^2 /NDF: 831915971.6/19

In: -0.044 $\pm$ 0.000

χ^2 /NDF: 12470184059.0/39

Out: -0.056 $\pm$ 0.000

χ^2 /NDF: 15829060016.8/44

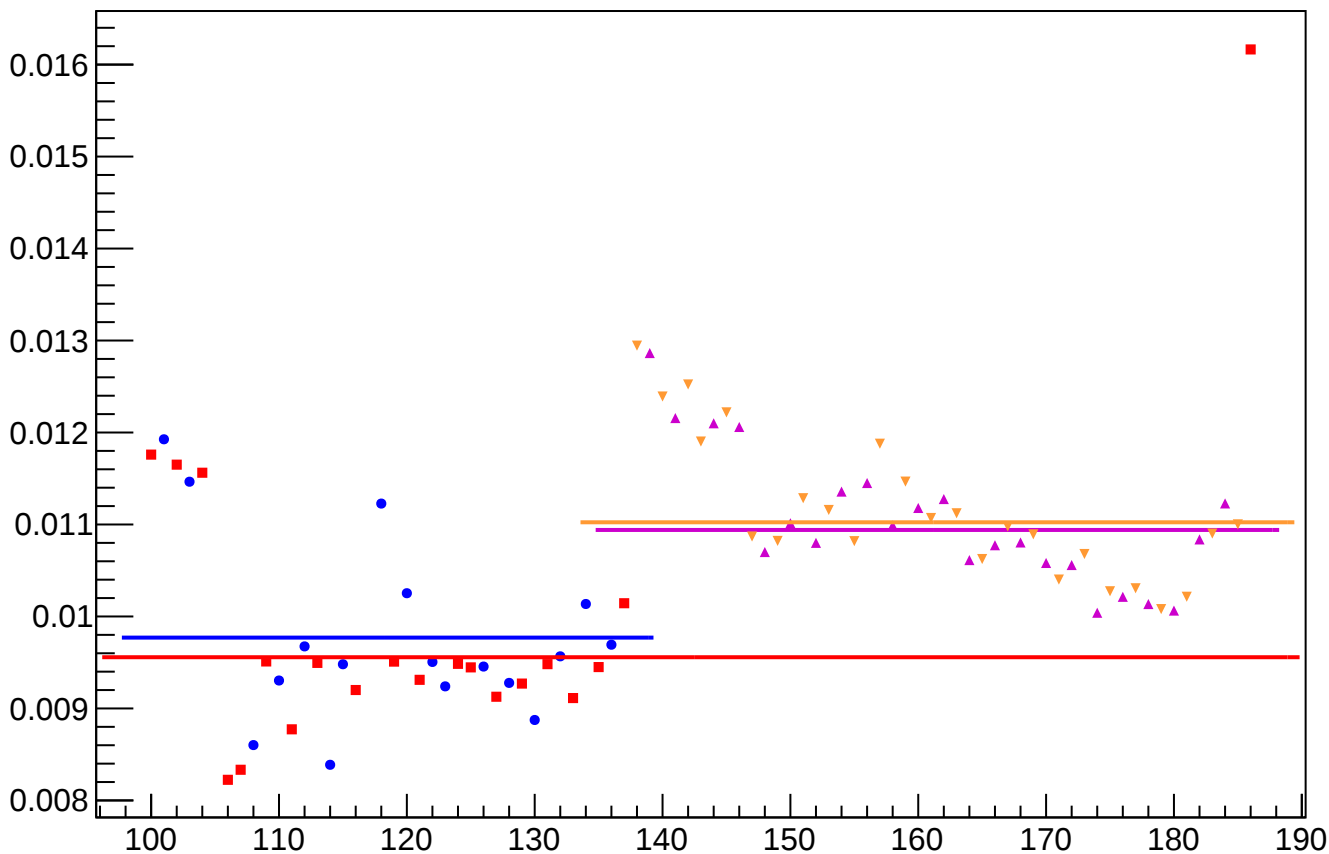
Left In: -0.093 $\pm$ 0.000

χ^2 /NDF: 11051944893.7/22

All: -0.050 $\pm$ 0.000

χ^2 /NDF: 28313813606.1/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 116013.9/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 231168.3/19

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 271400.1/47

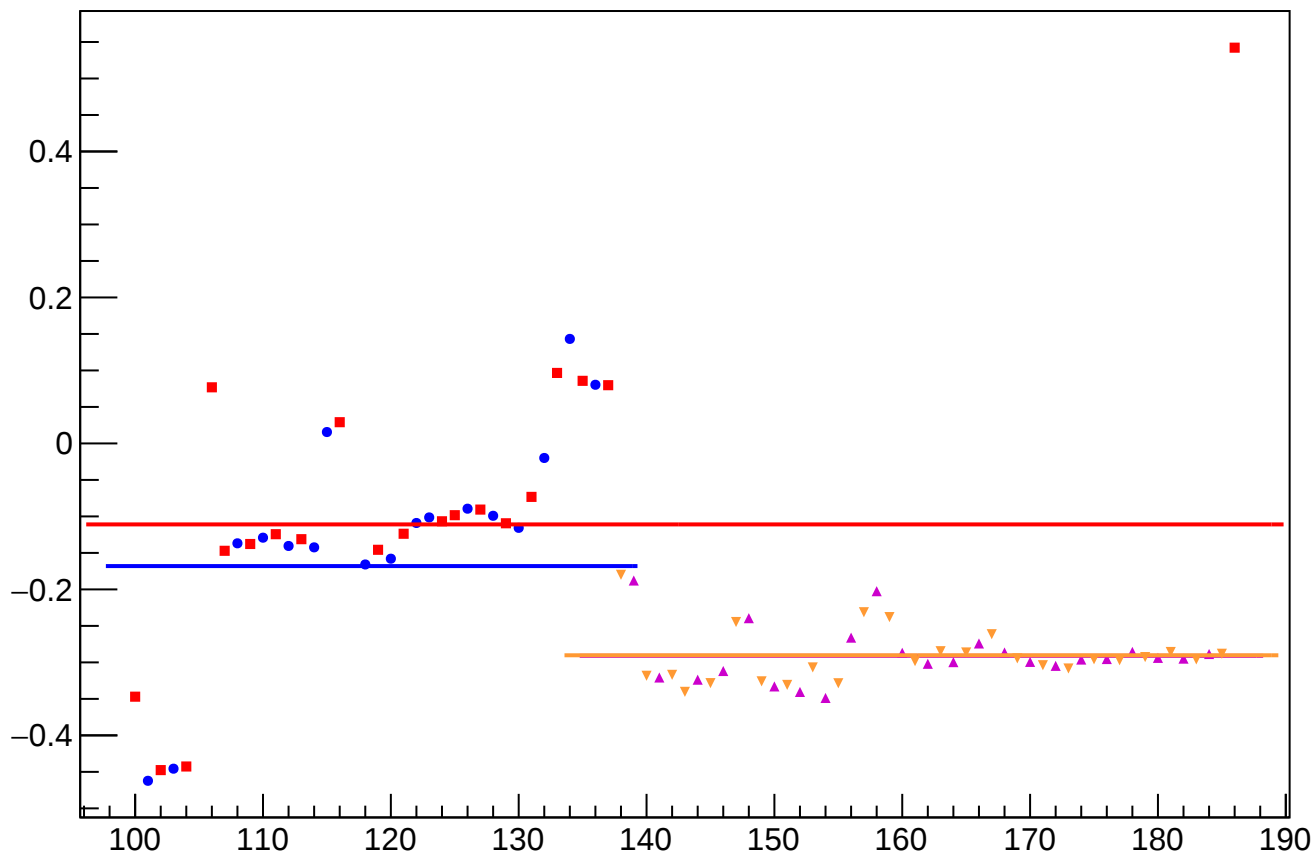
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 350477.1/36

In: 0.011 $\pm$ 0.000 χ^2 /NDF:368905.6/39

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:591820.1/44

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 961273.8/84

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168 ± 0.000 $\chi^2/\text{NDF}: 12330177160.8/16$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: -0.111 ± 0.000 $\chi^2/\text{NDF}: 20862514078.1/19$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

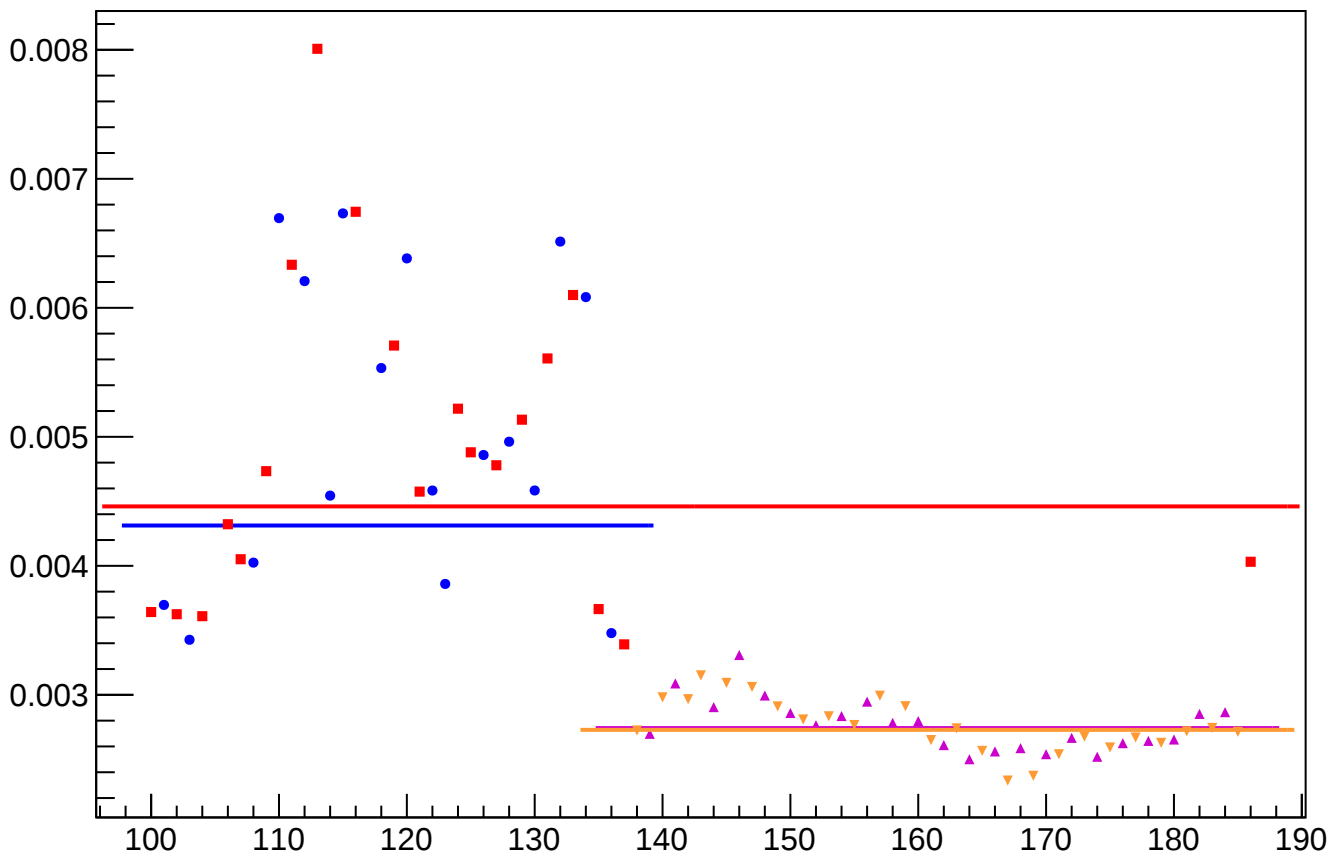
Right: -0.139 ± 0.000 $\chi^2/\text{NDF}: 33714077130.1/36$

In: -0.276 ± 0.000 $\chi^2/\text{NDF}: 19577979631.0/39$

Out: -0.268 ± 0.000 $\chi^2/\text{NDF}: 33031650952.3/44$

All: -0.272 ± 0.000 $\chi^2/\text{NDF}: 52682561891.2/100$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 618348.9/16

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 647747.3/19

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

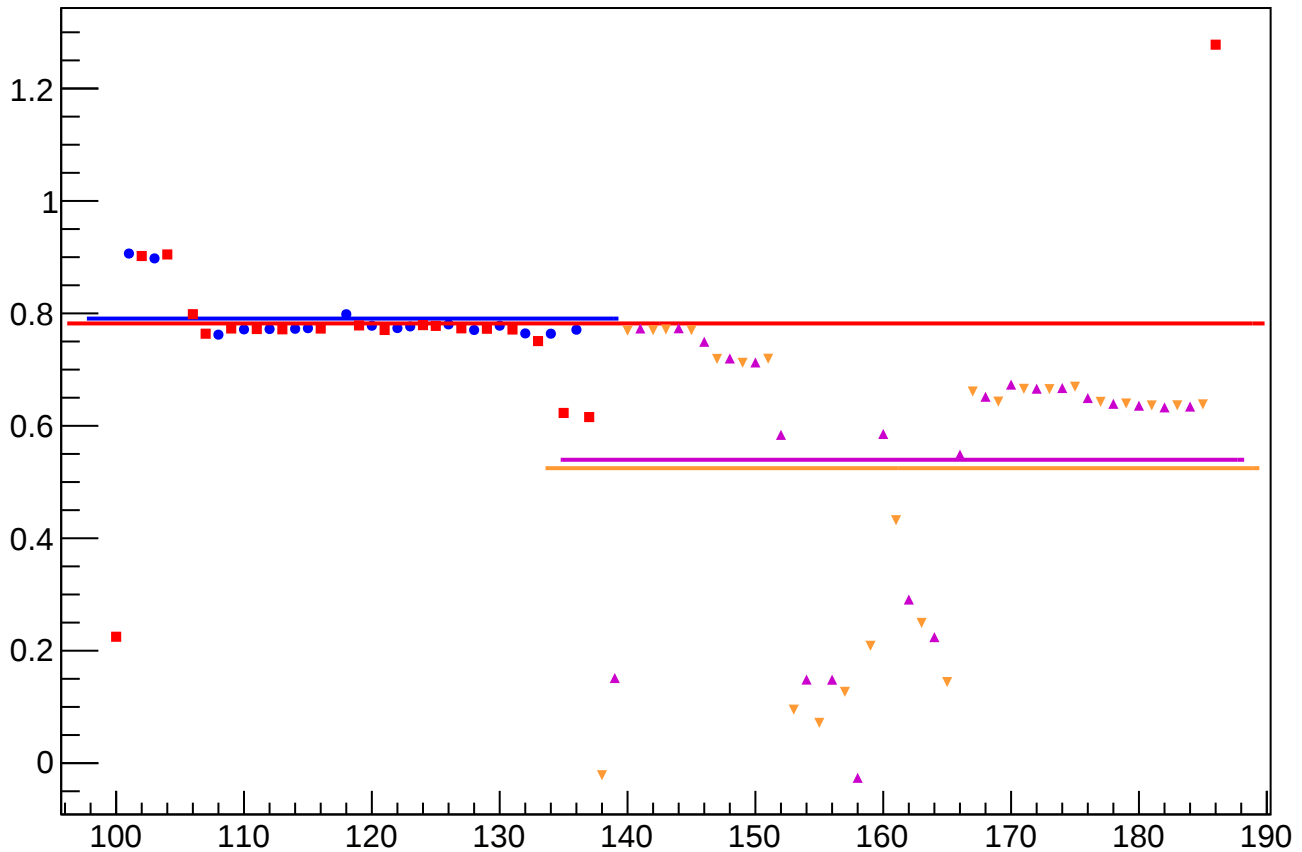
Right: 0.004+/-0.000 χ^2/NDF : 1273109.3/36

In: 0.003+/-0.000 χ^2/NDF :2109972.2/39

Out: 0.003+/-0.000 χ^2/NDF :2588204.4/44

All: 0.003+/-0.000 χ^2/NDF : 4698214.2/84

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106680493.2/16

Left Out: 0.525+/-0.000 χ^2/NDF : 9623503169.9/24

Right Out: 0.782+/-0.000 χ^2/NDF : 753611592.3/19

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532+/-0.000 χ^2/NDF : 17500739852.2/47

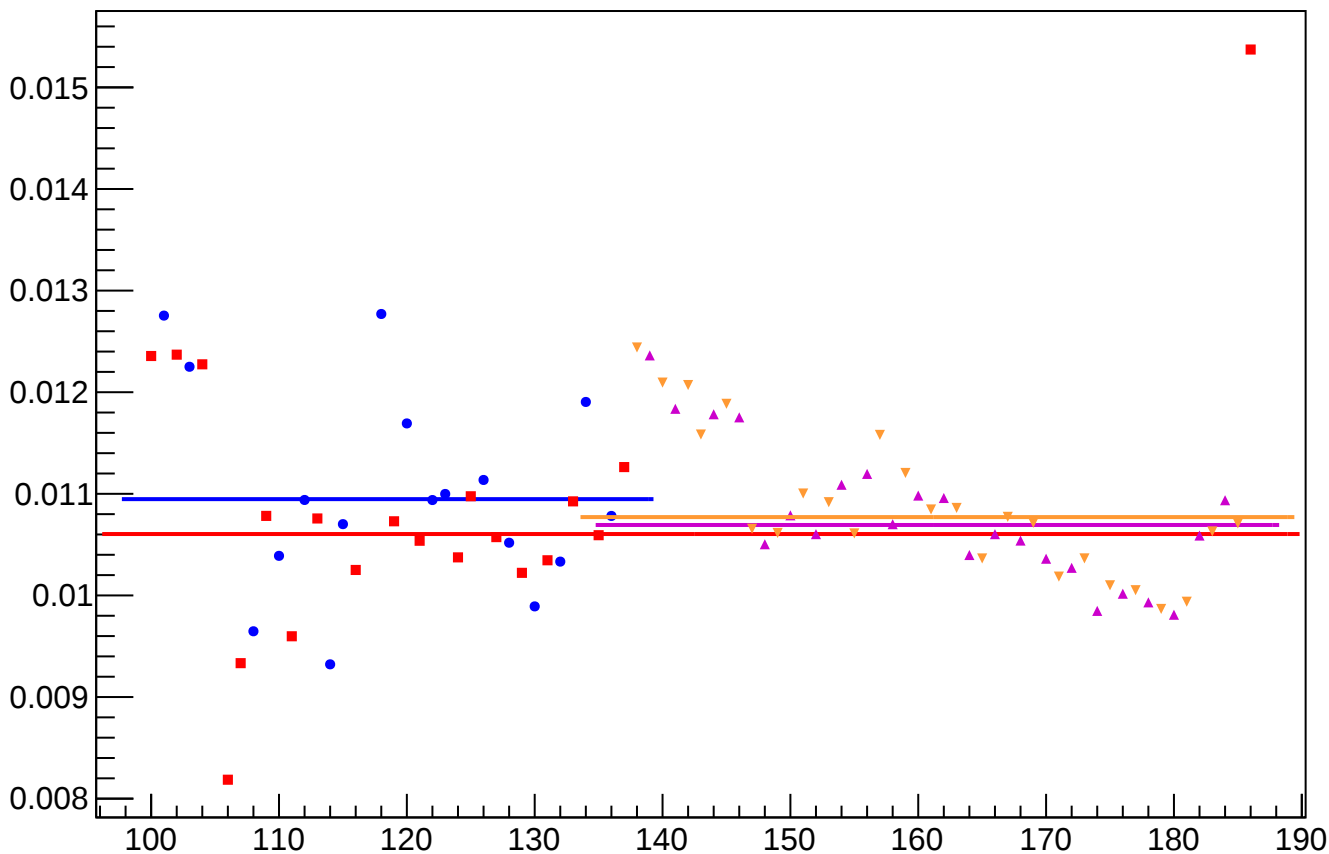
Right: 0.786+/-0.000 χ^2/NDF : 862471829.8/36

In: 0.607+/-0.000 χ^2/NDF : 10438982186.9/39

Out: 0.601+/-0.000 χ^2/NDF : 13365164482.4/44

All: 0.604+/-0.000 χ^2/NDF : 23808261575.5/83

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98019.2/16

Left Out: 0.011+/-0.000 χ^2/NDF : 131630.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 189454.3/19

Left In: 0.011+/-0.000 χ^2/NDF : 119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

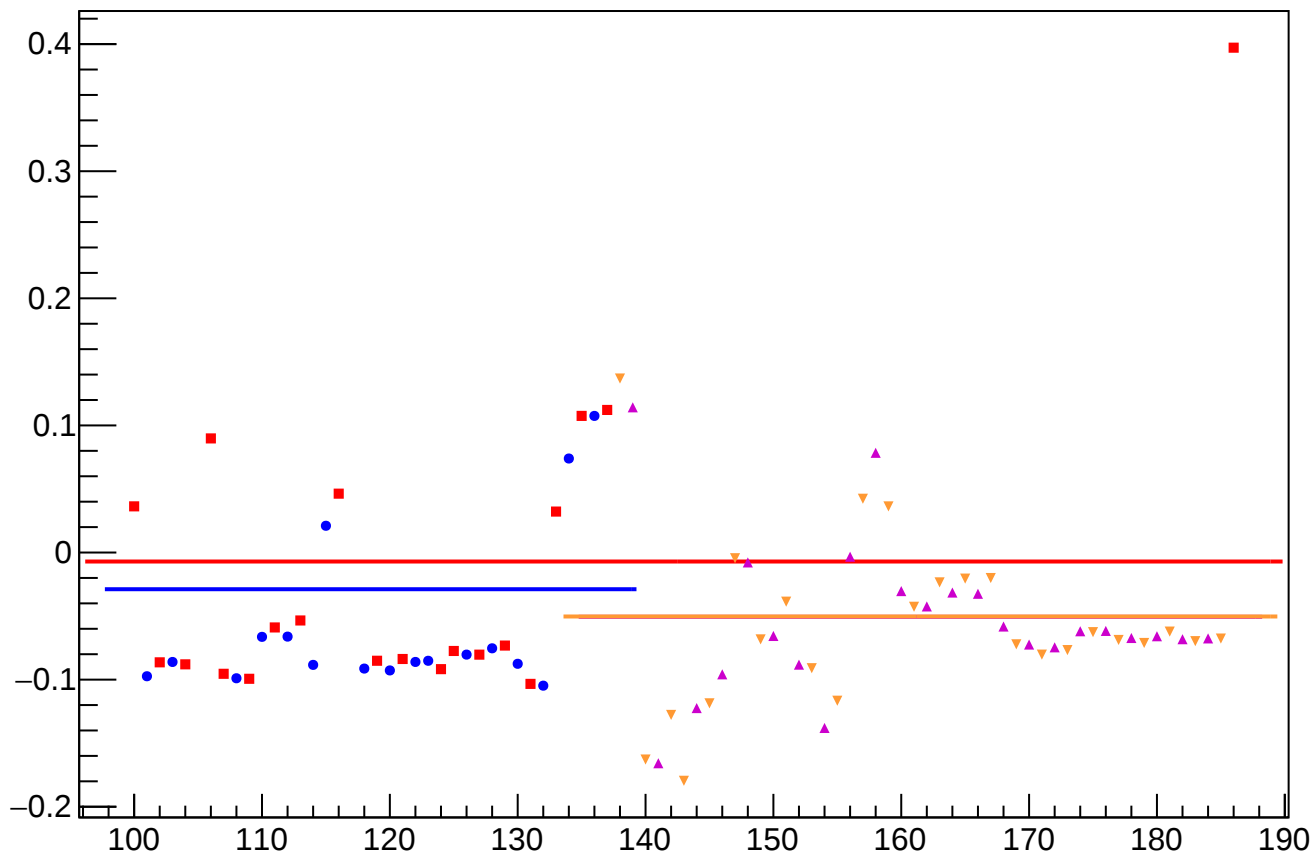
Right: 0.011+/-0.000 χ^2/NDF : 294353.2/36

In: 0.011+/-0.000 χ^2/NDF : 222363.9/39

Out: 0.011+/-0.000 χ^2/NDF : 323590.4/44

All: 0.011+/-0.000 χ^2/NDF : 546285.9/84

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000 χ^2/NDF : 2444911330.9/16

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: -0.007+/-0.000 χ^2/NDF : 4874030888.1/19

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

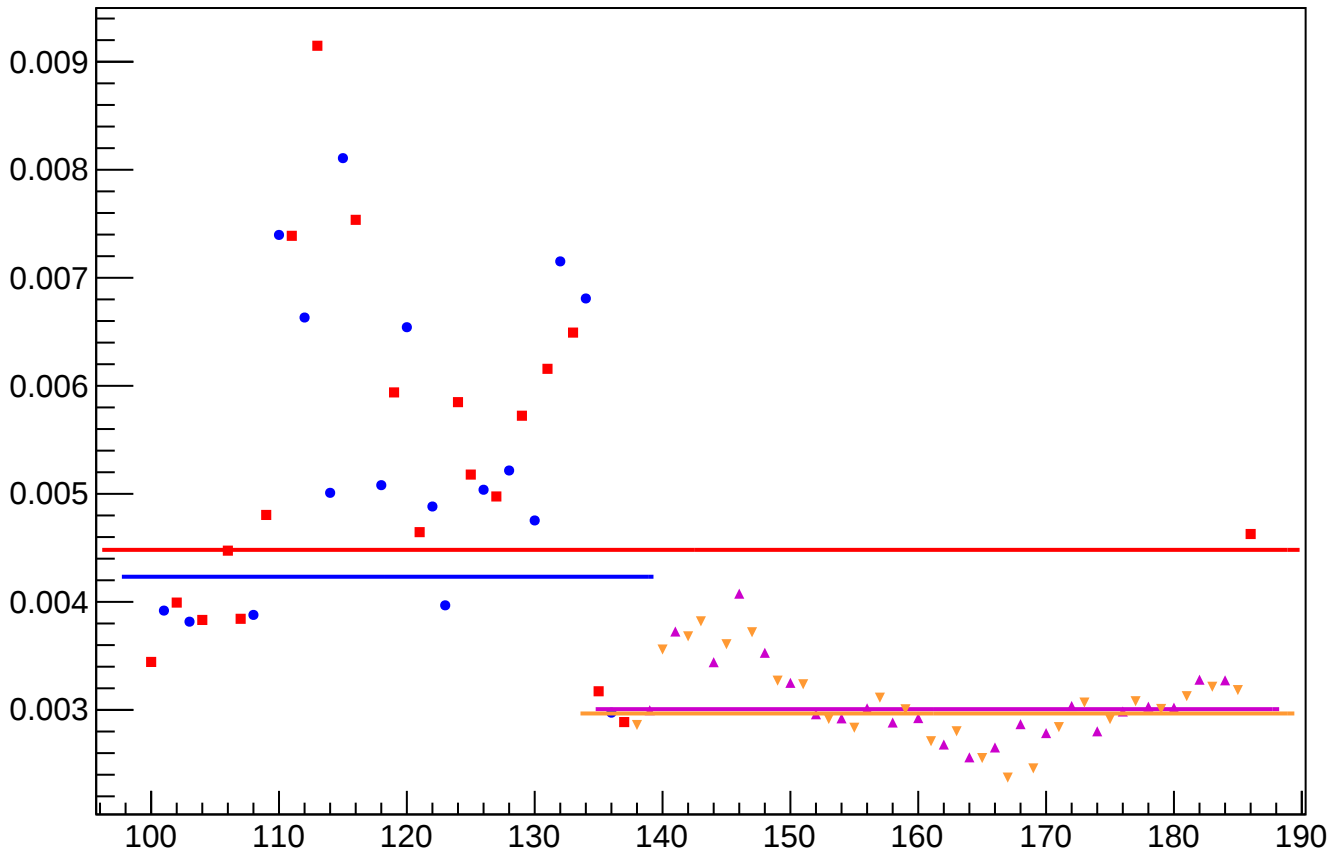
Right: -0.018+/-0.000 χ^2/NDF : 7391592903.6/36

In: -0.047+/-0.000 χ^2/NDF : 8696172072.2/39

Out: -0.044+/-0.000 χ^2/NDF : 12642137357.7/44

All: -0.046+/-0.000 χ^2/NDF : 21348099555.9/100

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 877339.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :499039.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 970067.4/19

Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

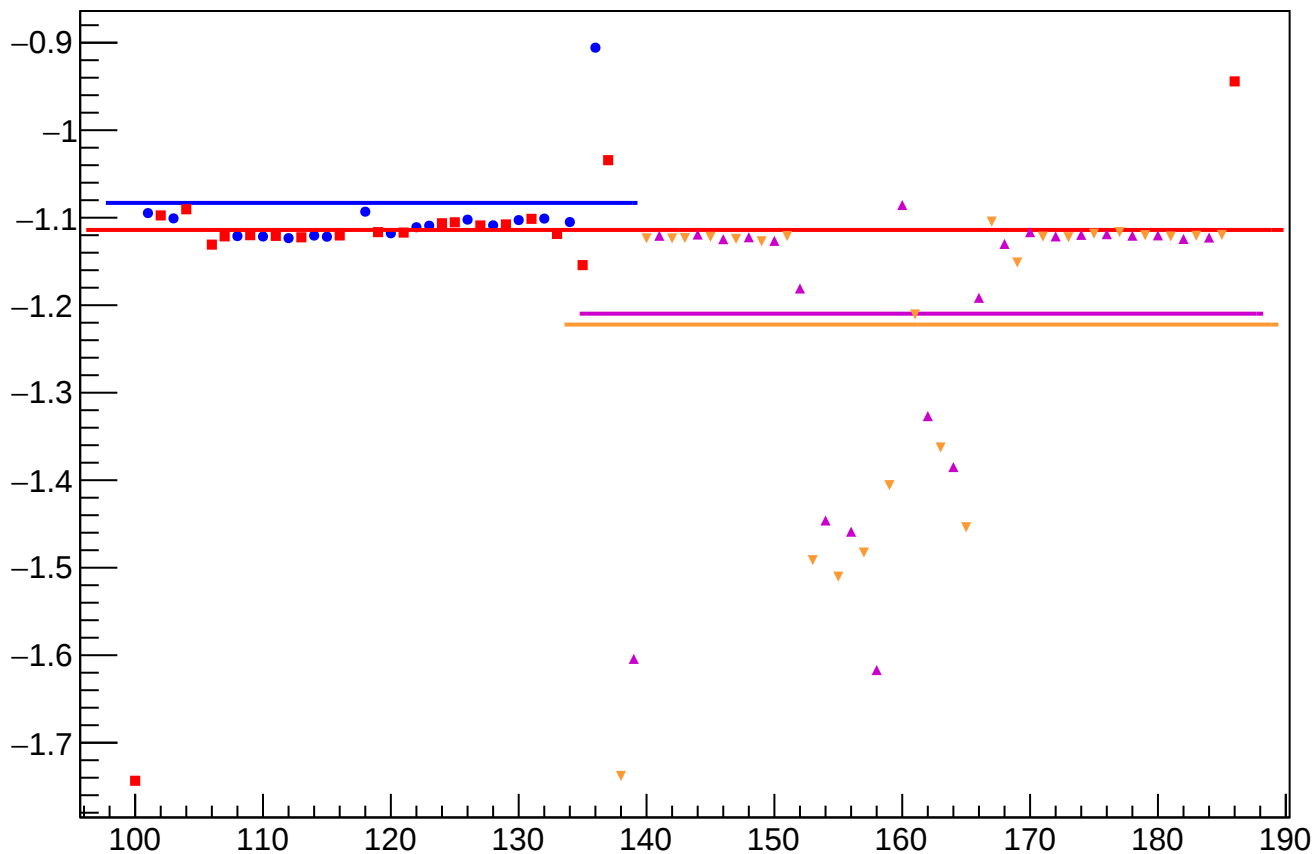
Right: 0.004+/-0.000 χ^2/NDF : 1866332.9/36

In: 0.003+/-0.000 χ^2/NDF :1986967.7/39

Out: 0.003+/-0.000 χ^2/NDF :2686899.1/44

All: 0.003+/-0.000 χ^2/NDF : 4674161.0/84

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083 ± 0.000 $\chi^2/\text{NDF}: 202851874.4/16$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.114 ± 0.000 $\chi^2/\text{NDF}: 279023120.8/19$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.216 ± 0.000 $\chi^2/\text{NDF}: 9796254294.5/47$

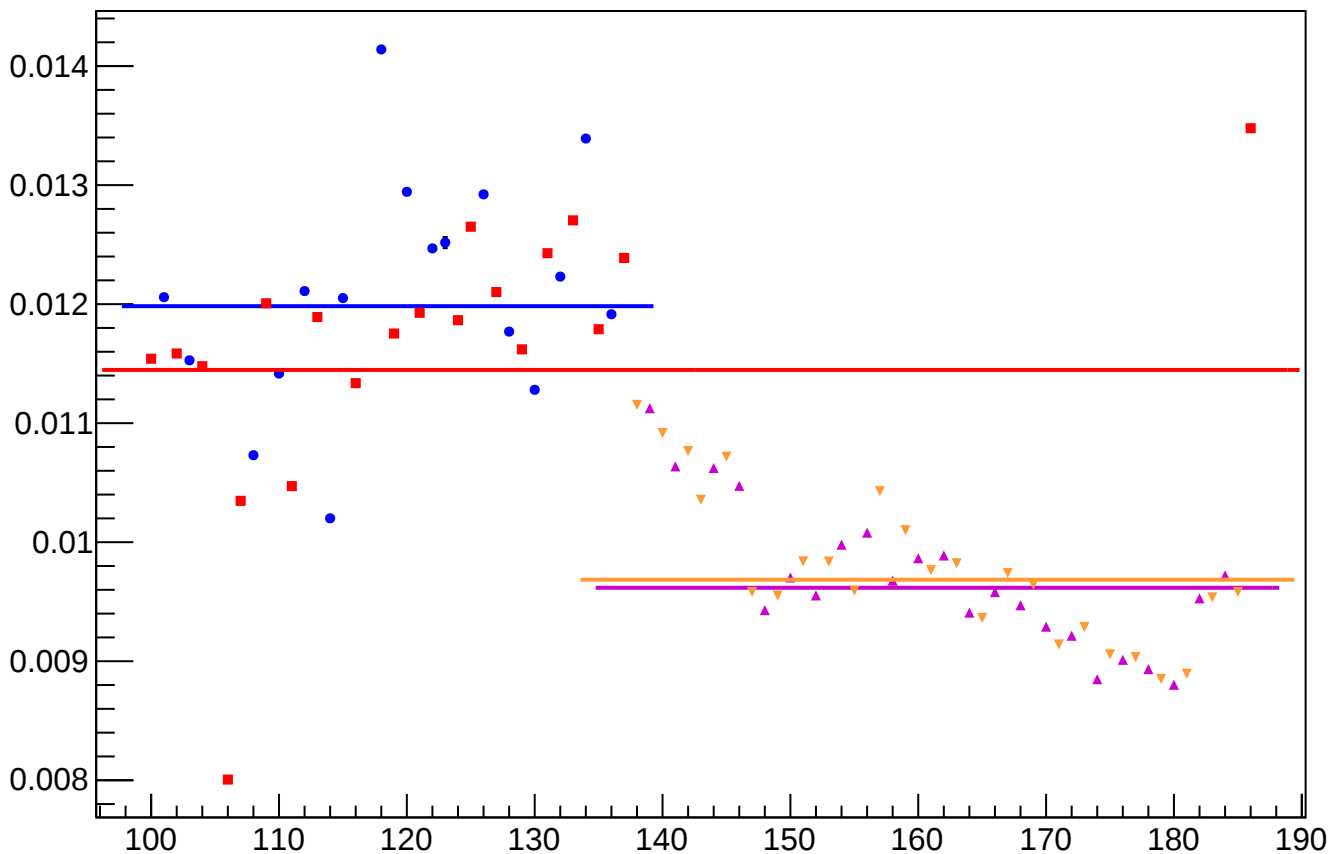
Right: -1.100 ± 0.000 $\chi^2/\text{NDF}: 505365599.6/36$

In: -1.185 ± 0.000 $\chi^2/\text{NDF}: 5279660530.7/39$

Out: -1.198 ± 0.000 $\chi^2/\text{NDF}: 6055044746.4/44$

All: -1.192 ± 0.000 $\chi^2/\text{NDF}: 11355262899.5/79$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 58835.2/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 169600.9/19

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:119823.1/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 255532.7/47

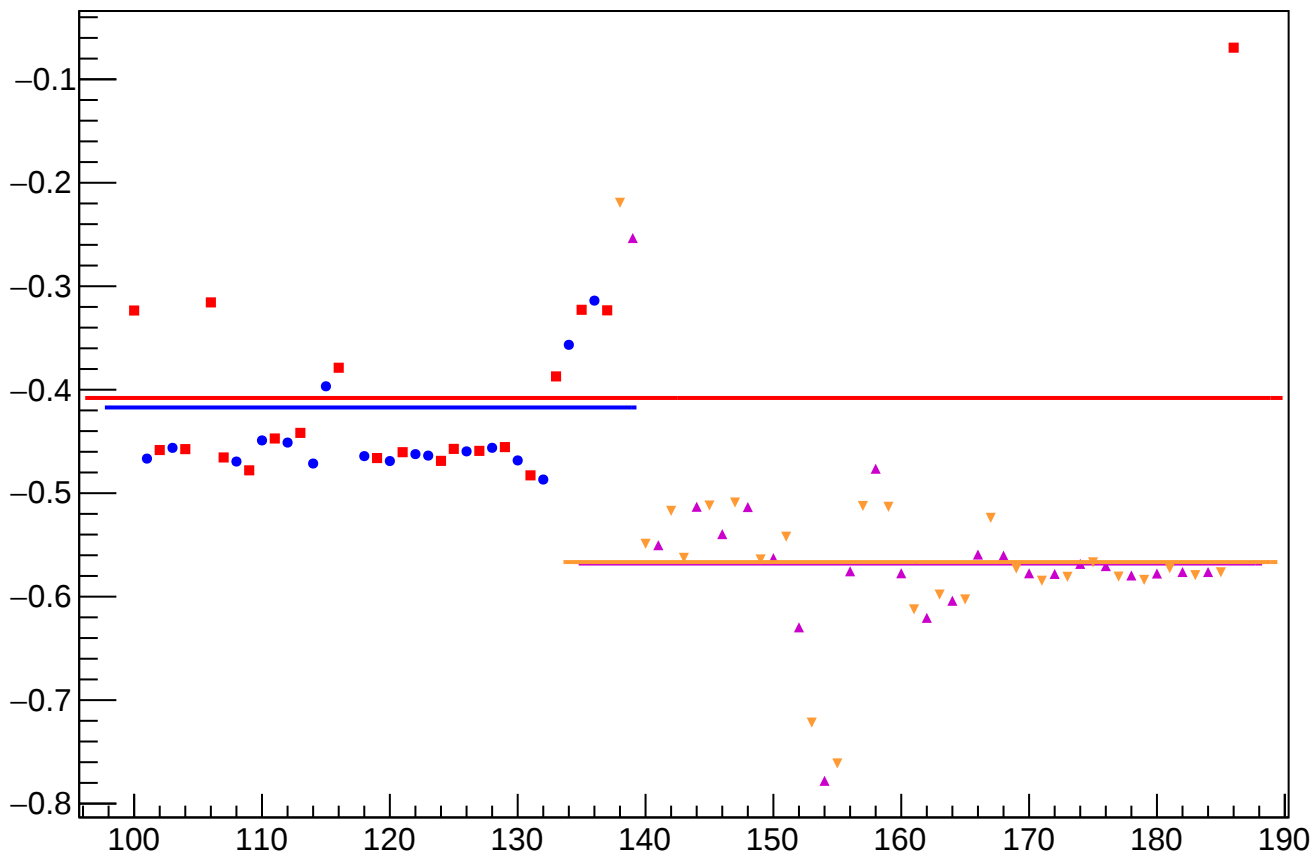
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 242543.6/36

In: 0.010 $\pm$ 0.000 χ^2 /NDF:579900.8/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:568339.0/44

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 1148245.9/84

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417 ± 0.000 $\chi^2/\text{NDF}: 2038520950.9/16$

Left Out: -0.567 ± 0.000 $\chi^2/\text{NDF}: 13368458519.3/24$

Right Out: -0.408 ± 0.000 $\chi^2/\text{NDF}: 3595455148.4/19$

Left In: -0.568 ± 0.000 $\chi^2/\text{NDF}: 10458990019.9/22$

Left: -0.567 ± 0.000 $\chi^2/\text{NDF}: 23829000396.4/47$

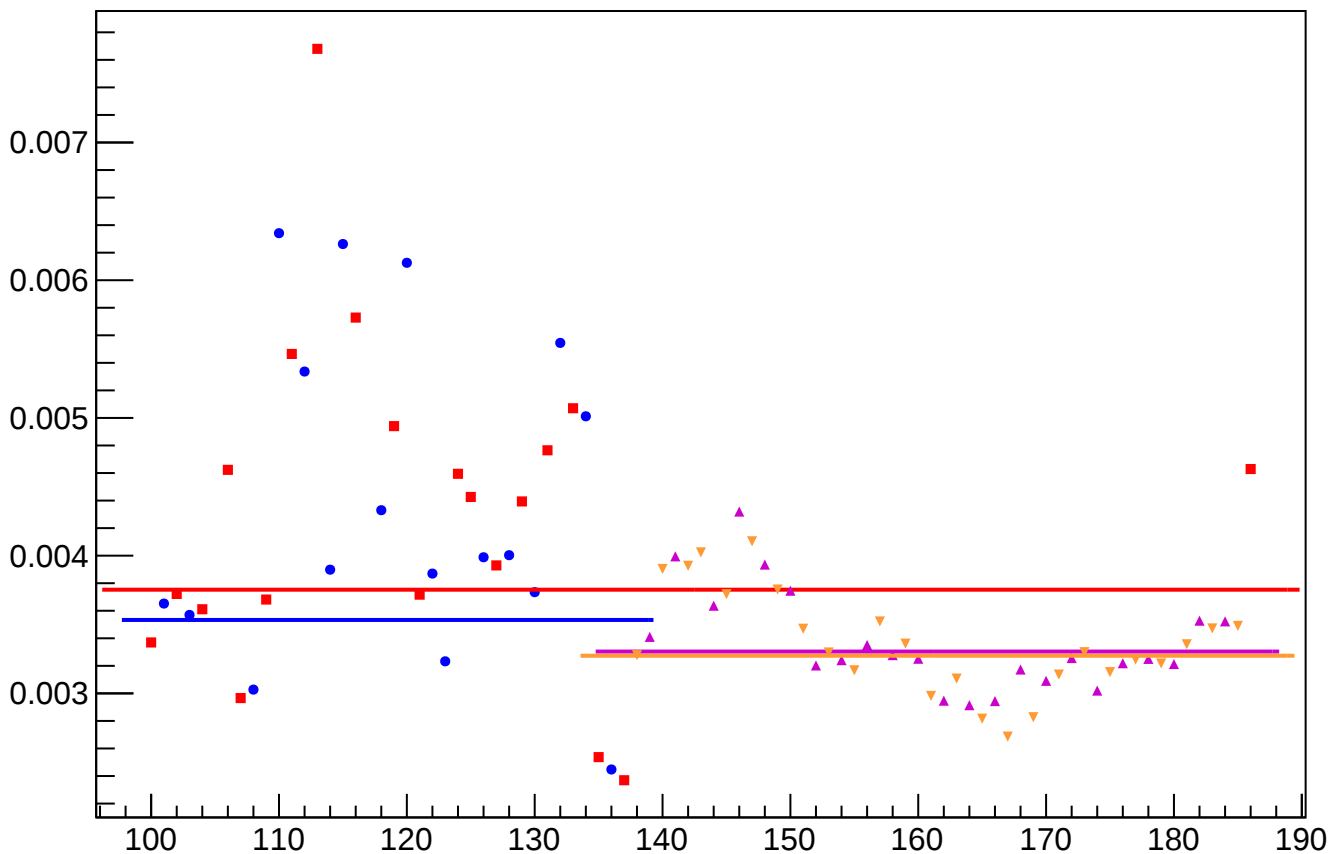
Right: -0.413 ± 0.000 $\chi^2/\text{NDF}: 5652411858.7/36$

In: -0.534 ± 0.000 $\chi^2/\text{NDF}: 20132934095.6/39$

Out: -0.532 ± 0.000 $\chi^2/\text{NDF}: 25634001217.2/44$

All: -0.533 ± 0.000 $\chi^2/\text{NDF}: 45768638829.6/83$

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 831496.7/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:394865.4/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 910773.5/19

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:286064.1/22

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 682340.4/47

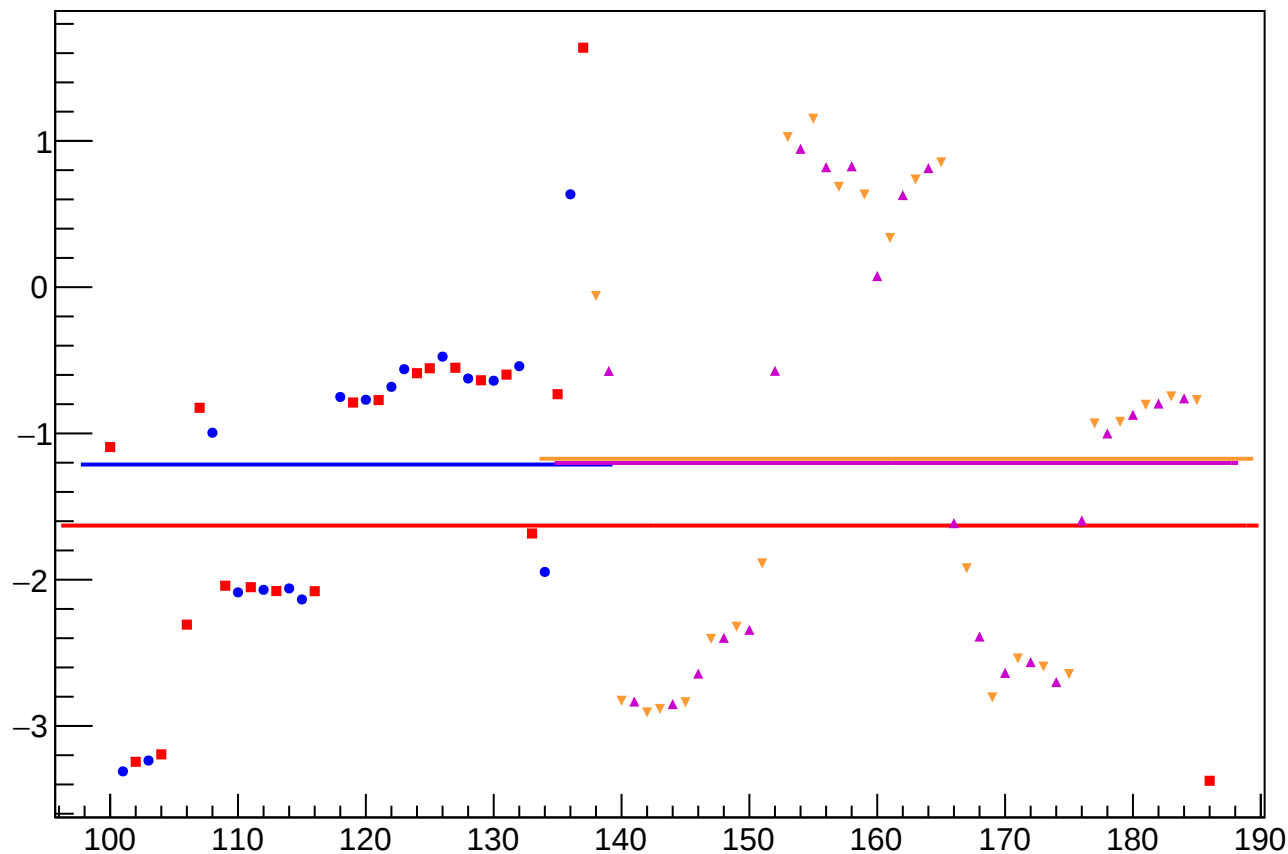
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1763350.9/36

In: 0.003 $\pm$ 0.000 χ^2 /NDF:1152887.0/39

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:1464082.4/44

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 2617824.1/84

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.213 ± 0.000 $\chi^2/\text{NDF}: 1991015908.7/16$

Left Out: -1.173 ± 0.000 $\chi^2/\text{NDF}: 6882684653.2/24$

Right Out: -1.630 ± 0.000 $\chi^2/\text{NDF}: 1954814672.9/19$

Left In: -1.202 ± 0.000 $\chi^2/\text{NDF}: 5606782515.9/22$

Left: -1.187 ± 0.000 $\chi^2/\text{NDF}: 12490828303.3/47$

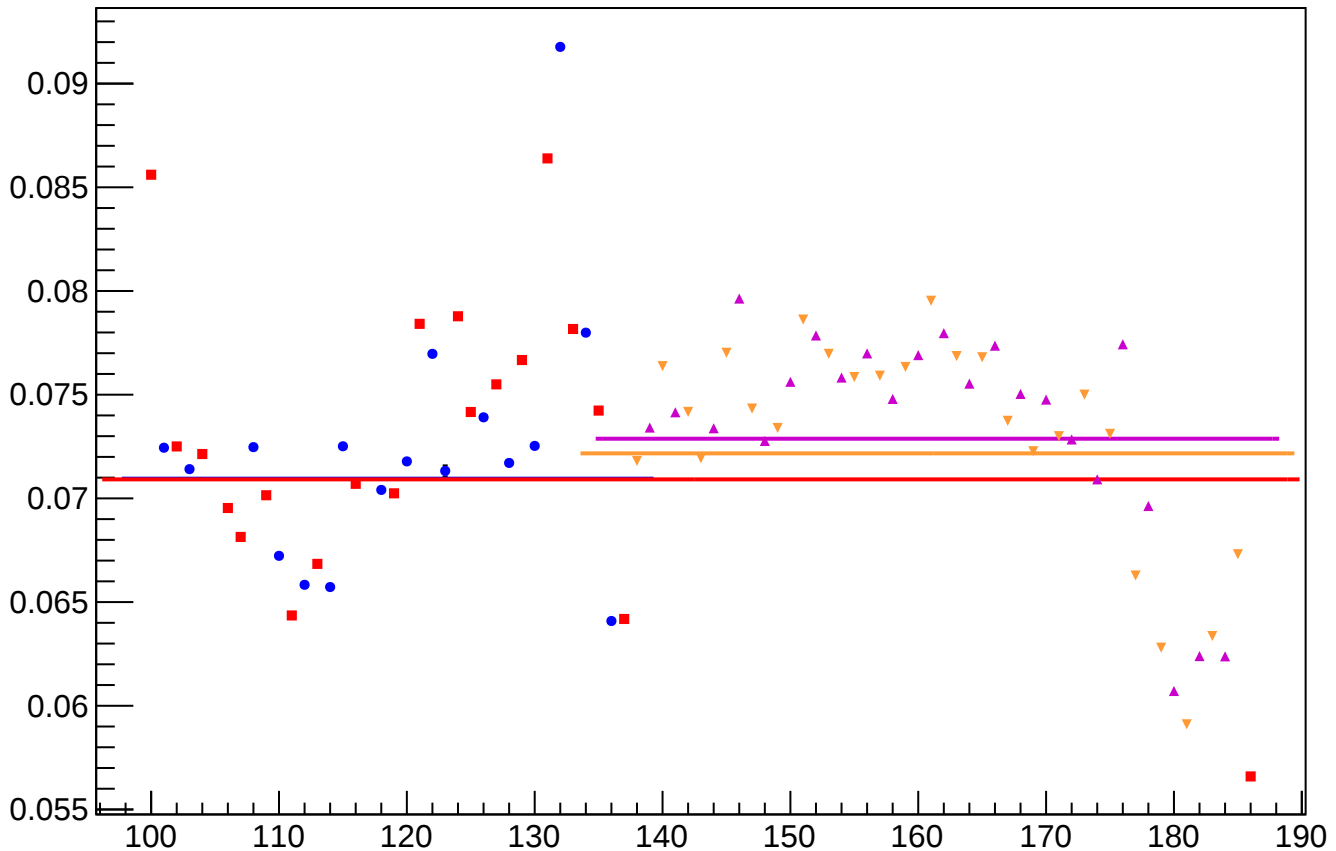
Right: -1.432 ± 0.000 $\chi^2/\text{NDF}: 4065207794.8/36$

In: -1.205 ± 0.000 $\chi^2/\text{NDF}: 7597905579.7/39$

Out: -1.308 ± 0.000 $\chi^2/\text{NDF}: 9050466308.0/44$

All: -1.259 ± 0.000 $\chi^2/\text{NDF}: 16673244869.7/100$

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77148.7/16

Left Out: 0.072+/-0.000 χ^2/NDF : 222263.8/24

Right Out: 0.071+/-0.000 χ^2/NDF : 120064.7/19

Left In: 0.073+/-0.000 χ^2/NDF : 183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

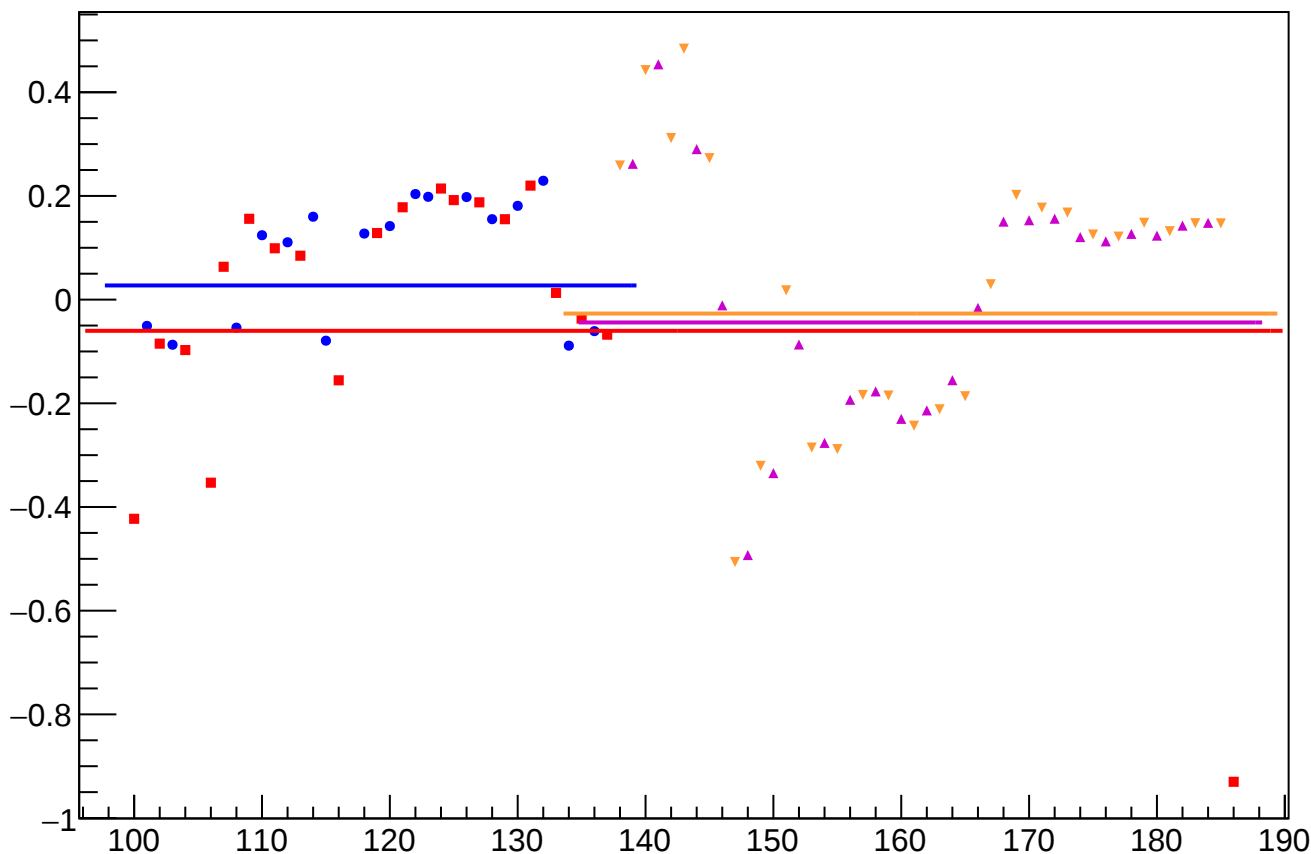
Right: 0.071+/-0.000 χ^2/NDF : 197215.0/36

In: 0.072+/-0.000 χ^2/NDF : 267516.7/39

Out: 0.072+/-0.000 χ^2/NDF : 345539.1/44

All: 0.072+/-0.000 χ^2/NDF : 614315.6/84

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027 ± 0.000 $\chi^2/\text{NDF}: 562065478.3/16$

Left Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 20376761328.6/24$

Right Out: -0.060 ± 0.000 $\chi^2/\text{NDF}: 3421421453.5/19$

Left In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 15718556282.1/22$

Left: -0.035 ± 0.000 $\chi^2/\text{NDF}: 36148383394.4/47$

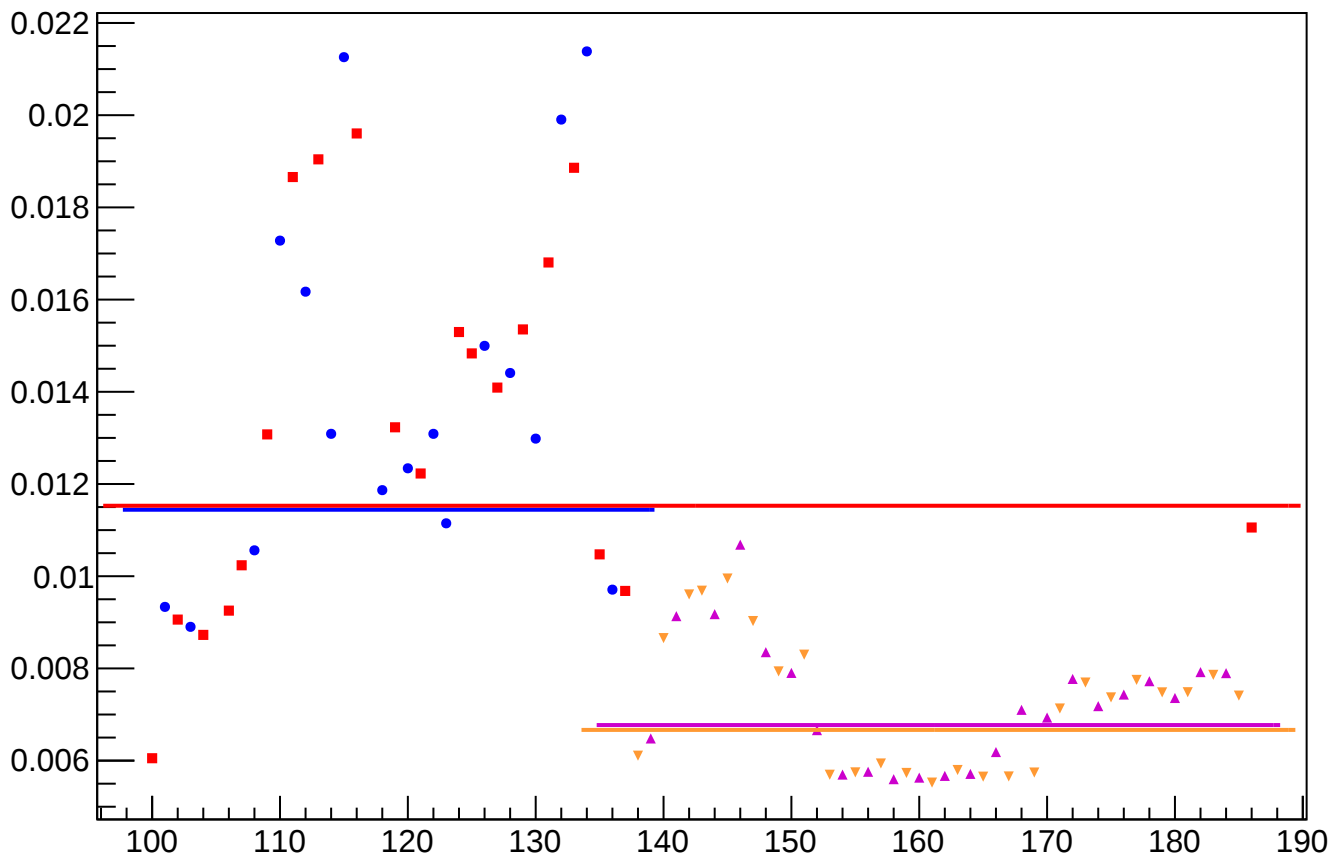
Right: -0.018 ± 0.000 $\chi^2/\text{NDF}: 4157183757.4/36$

In: -0.036 ± 0.000 $\chi^2/\text{NDF}: 16478547890.4/39$

Out: -0.031 ± 0.000 $\chi^2/\text{NDF}: 23844540510.2/44$

All: -0.033 ± 0.000 $\chi^2/\text{NDF}: 40329075488.1/100$

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 673738.1/16

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 980603.5/19

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

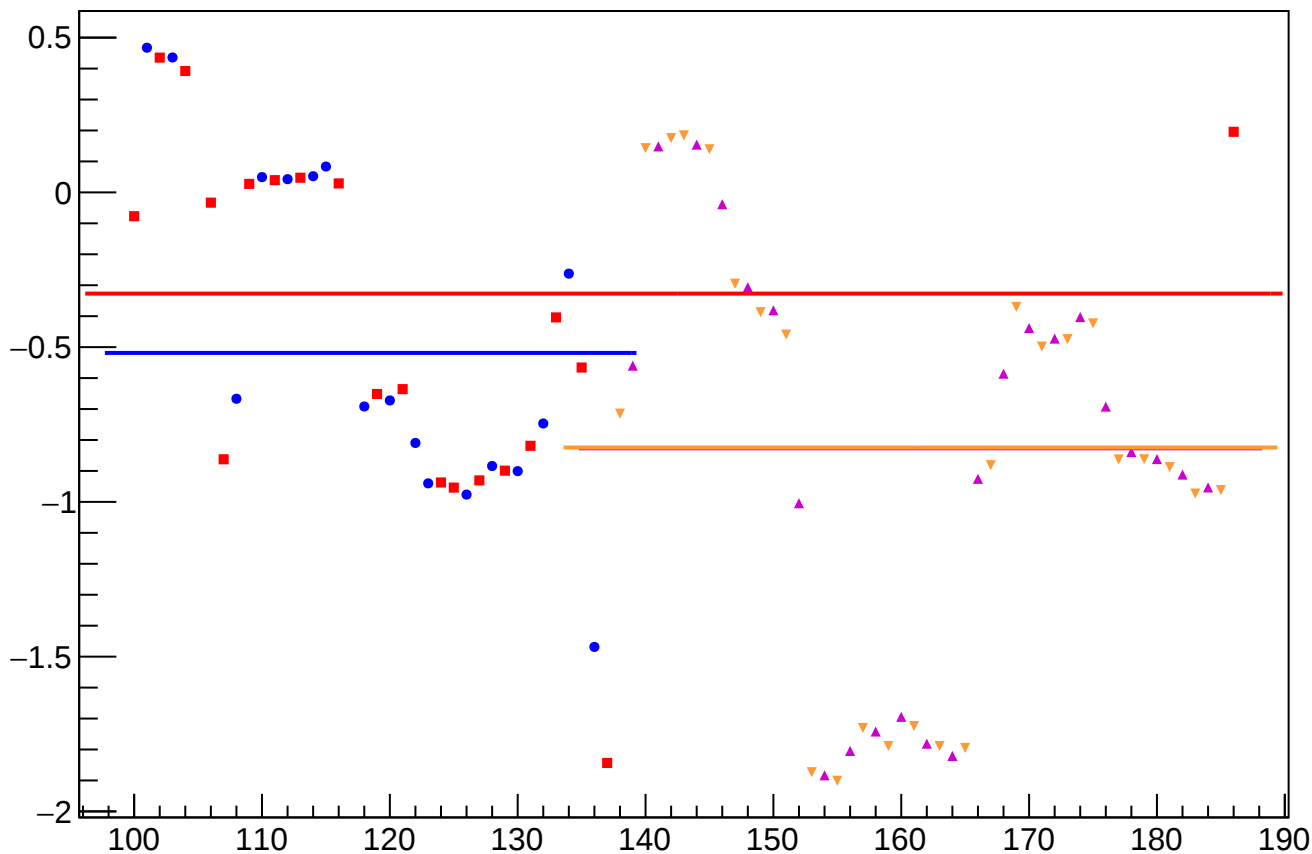
Right: 0.011+/-0.000 χ^2/NDF : 1654680.7/36

In: 0.007+/-0.000 χ^2/NDF :3302327.5/39

Out: 0.007+/-0.000 χ^2/NDF :4104414.9/44

All: 0.007+/-0.000 χ^2/NDF : 7410218.0/84

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 χ^2/NDF : 338707442.0/16

Left Out: -0.824 ± 0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.327 ± 0.000 χ^2/NDF : 294345929.8/19

Left In: -0.827 ± 0.000 χ^2/NDF : 921651117.3/22

Left: -0.826 ± 0.000 χ^2/NDF : 2025270716.0/47

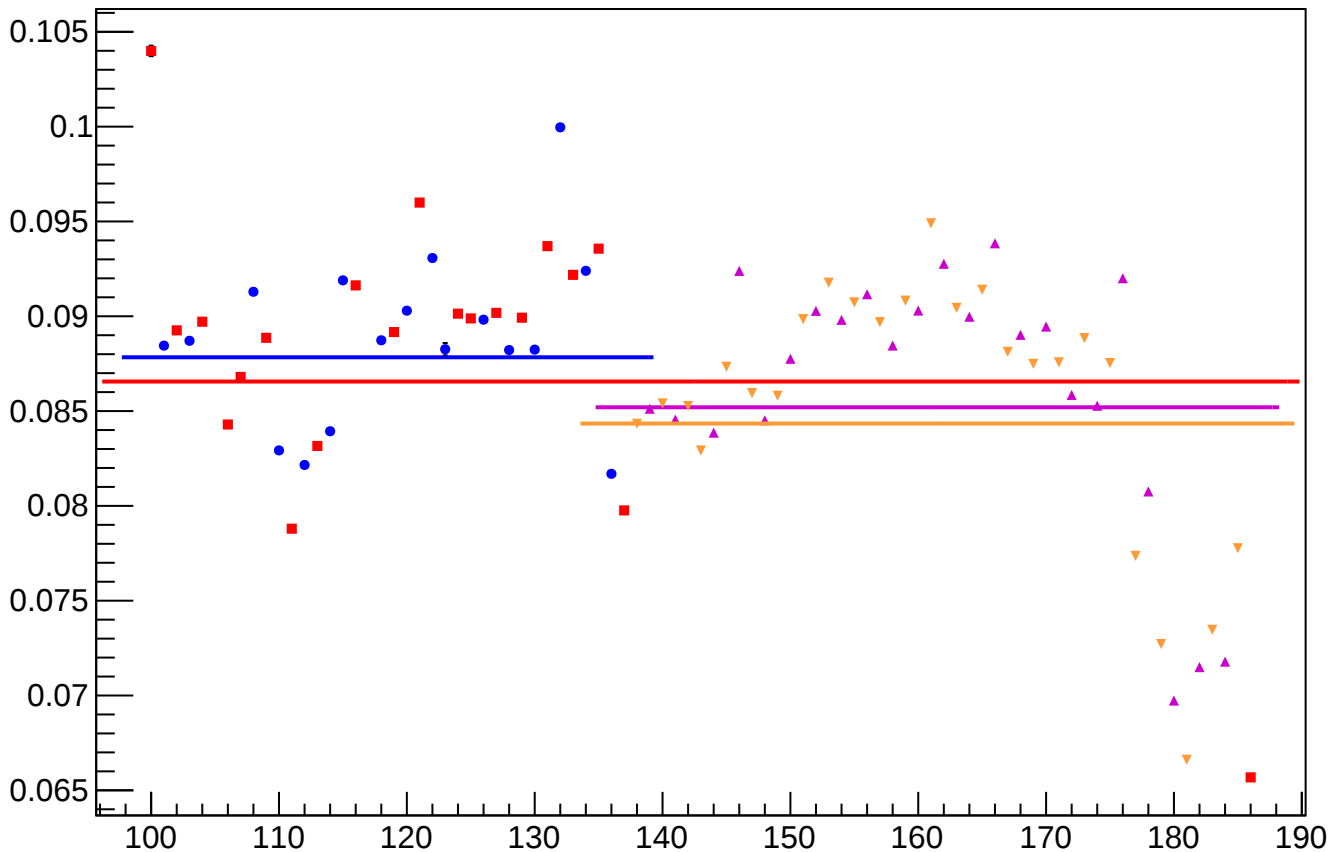
Right: -0.416 ± 0.000 χ^2/NDF : 649992918.4/36

In: -0.744 ± 0.000 χ^2/NDF : 1320411453.2/39

Out: -0.685 ± 0.000 χ^2/NDF : 1574217063.1/44

All: -0.714 ± 0.000 χ^2/NDF : 2900467757.7/8

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2/NDF : 34872.1/16

Left Out: 0.084 $\pm$ 0.000 χ^2/NDF : 288312.6/24

Right Out: 0.087 $\pm$ 0.000 χ^2/NDF : 123219.9/19

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

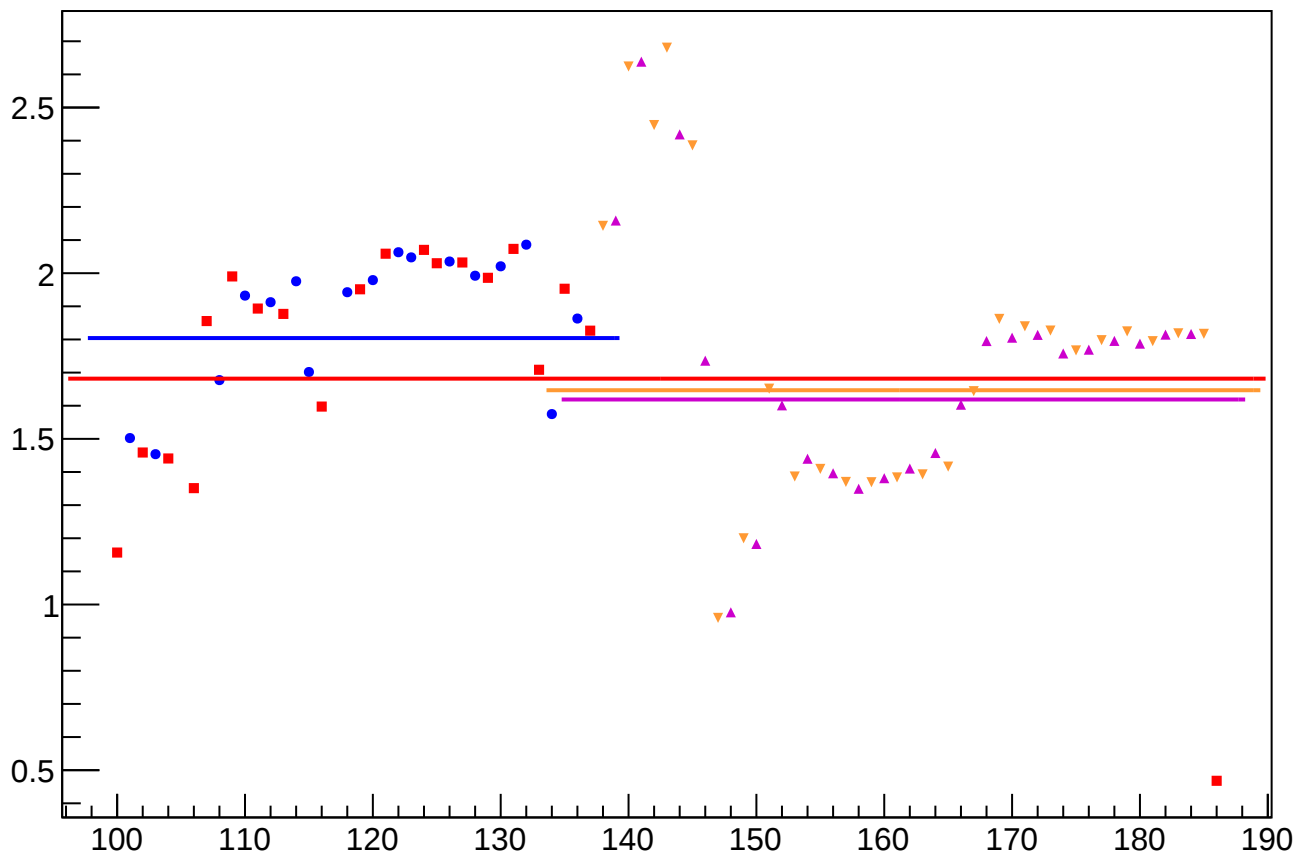
Right: 0.087 $\pm$ 0.000 χ^2/NDF : 159600.0/36

In: 0.086 $\pm$ 0.000 χ^2/NDF : 281979.6/39

Out: 0.085 $\pm$ 0.000 χ^2/NDF : 418529.4/44

All: 0.085 $\pm$ 0.000 χ^2/NDF : 703526.5/84

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156038618.5/16

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.682 $\pm$ 0.000 χ^2 /NDF: 4415456782.7/19

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

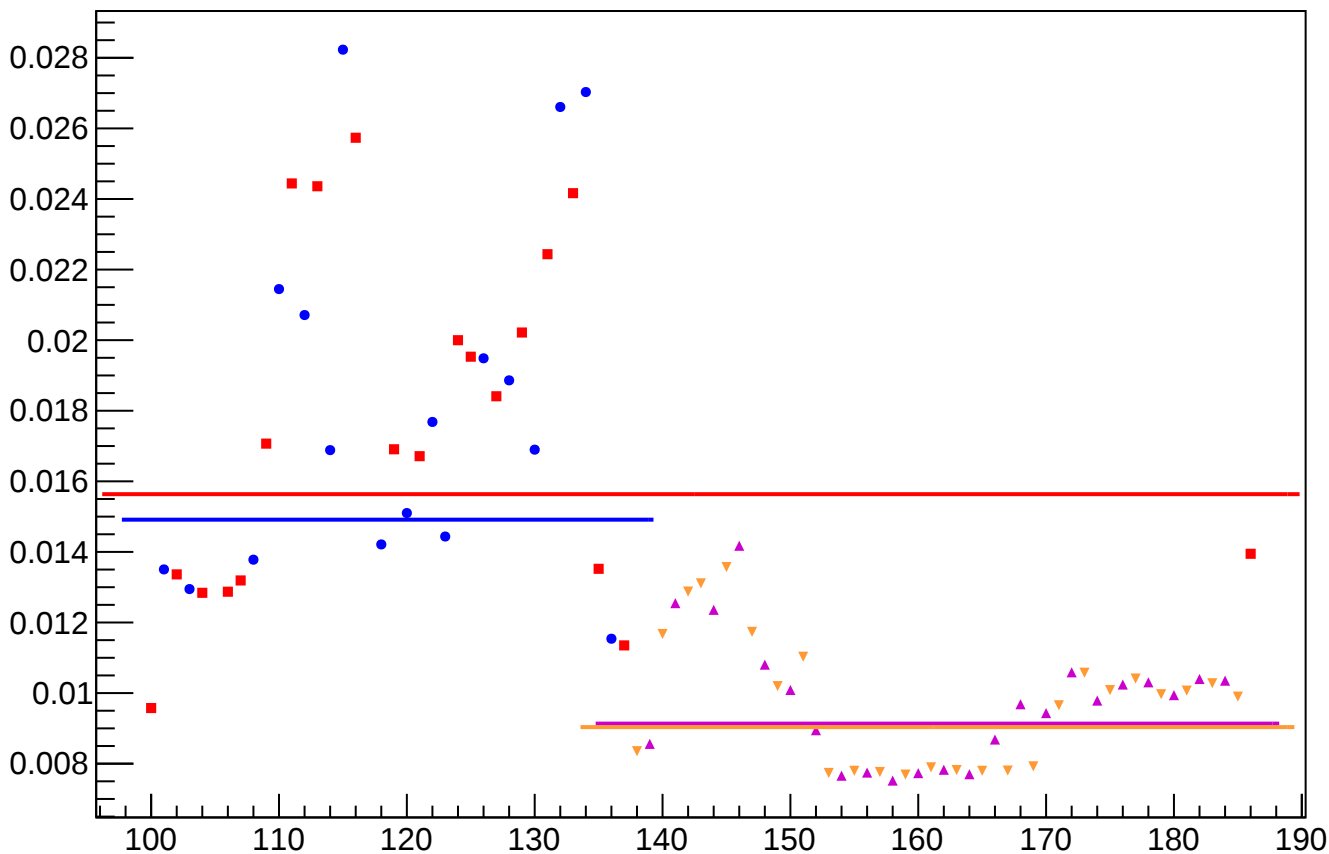
Right: 1.743 $\pm$ 0.000 χ^2 /NDF: 5765567908.7/36

In: 1.641 $\pm$ 0.000 χ^2 /NDF: 22555231746.9/39

Out: 1.651 $\pm$ 0.000 χ^2 /NDF: 30978911210.0/44

All: 1.646 $\pm$ 0.000 χ^2 /NDF: 53545070634.6/80

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 638037.3/16

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.016+/-0.000 χ^2/NDF : 780807.2/19

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

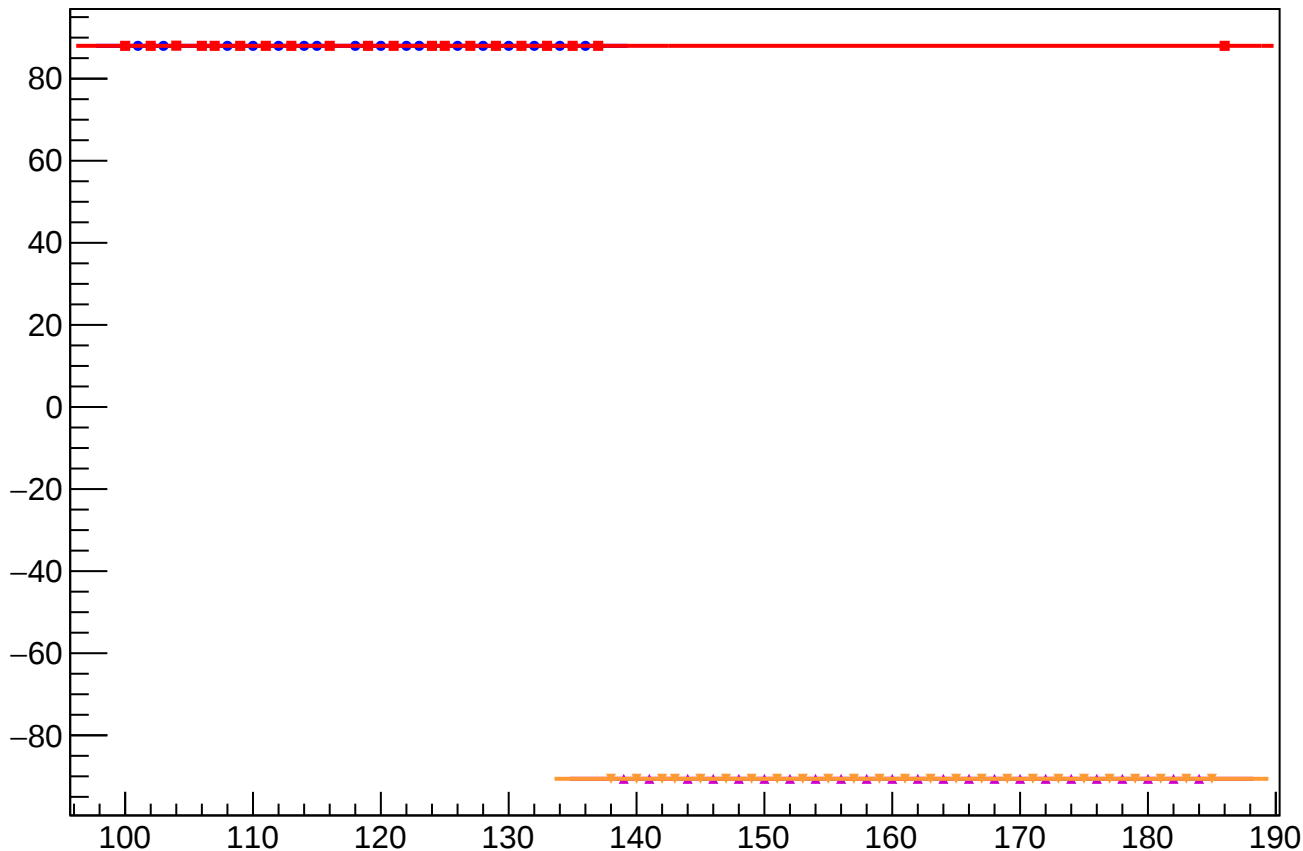
Right: 0.015+/-0.000 χ^2/NDF : 1432343.9/36

In: 0.010+/-0.000 χ^2/NDF :3033983.4/39

Out: 0.010+/-0.000 χ^2/NDF :3835561.5/44

All: 0.010+/-0.000 χ^2/NDF : 6870169.8/84

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1547328.6/16

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.003+/-0.000 χ^2/NDF : 77825816610267046188240863232.0/19

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

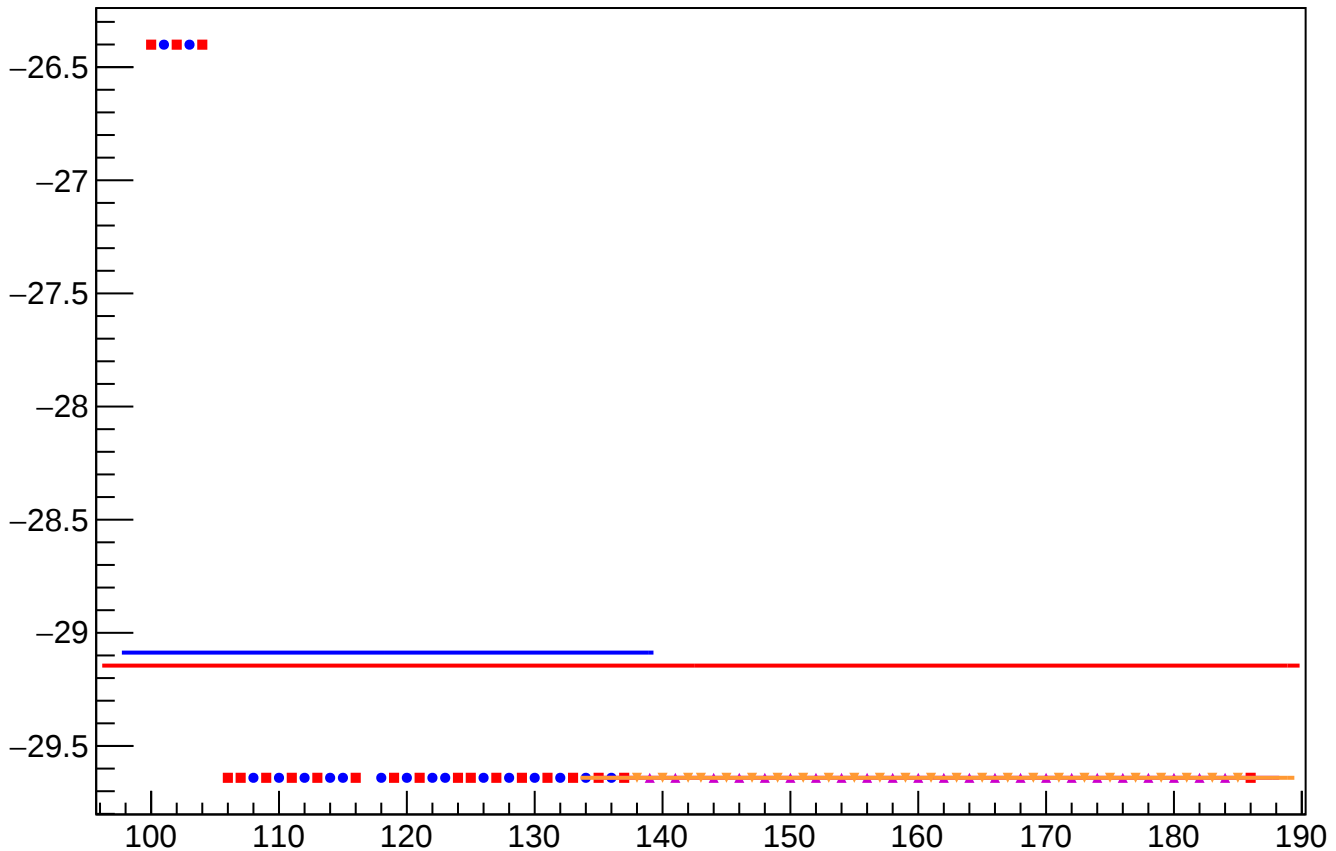
Right: 88.002+/-0.000 χ^2/NDF : 8050303691748088

In: -40.976+/-0.000 χ^2/NDF : 15917377035207056

Out: -39.762+/-0.000 χ^2/NDF : 1729693548296503

All: -40.348+/-0.000 χ^2/NDF : 332162098302

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.087+/-0.000

χ^2/NDF : 1027184842836480355028877627621376.0/16

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.145+/-0.000

χ^2/NDF : 1031368426385232524829032009695232.0/19

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

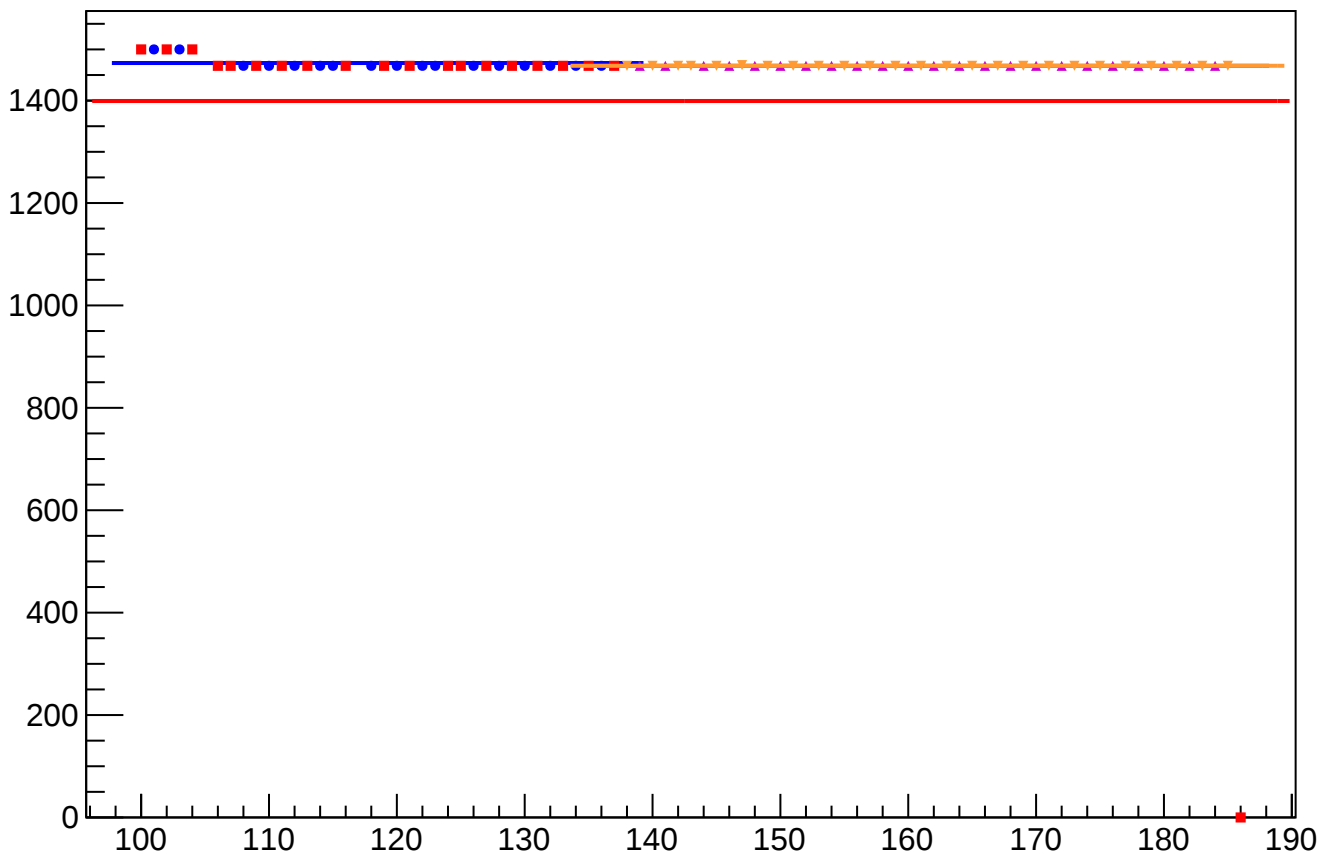
Right: -29.117+/-0.000 χ^2/NDF : 205974648447207

In: -29.487+/-0.000 χ^2/NDF : 11799437471652456

Out: -29.500+/-0.000 χ^2/NDF : 1164677775140793

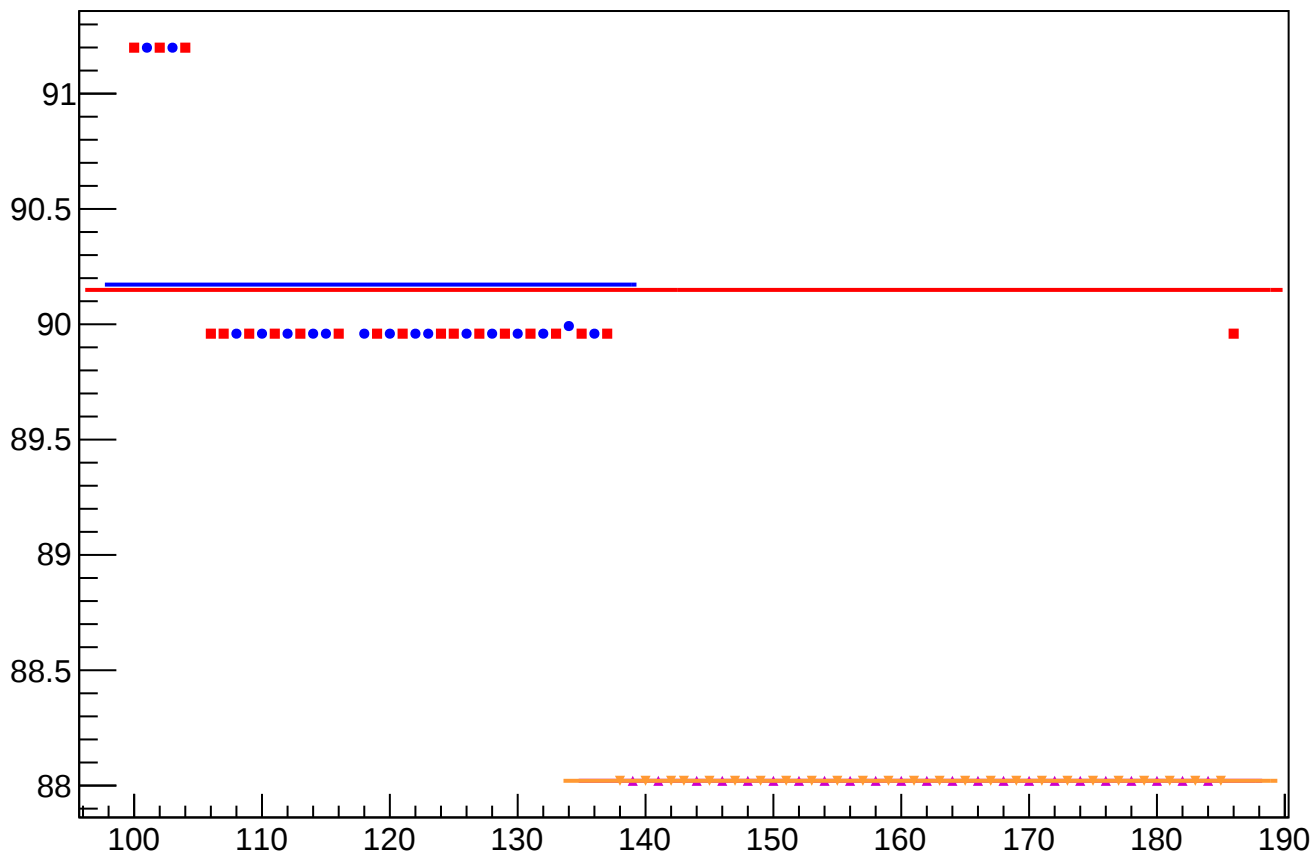
All: -29.493+/-0.000 χ^2/NDF : 234482547075

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1473.447+/-0.000	χ^2/NDF : 100331979974804513534478923851628544.0/16	Left: 1468.022+/-0.000	χ^2/NDF : 13080781775346
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1434.653+/-0.000	χ^2/NDF : 80518169696309
Right Out: 1399.288+/-0.000	χ^2/NDF : 78429829645423881874217030841702285312.0/19	In: 1469.509+/-0.000	χ^2/NDF : 1151745068139507
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1448.476+/-0.000	χ^2/NDF : 809936723284889
	All: 1458.633+/-0.000		χ^2/NDF : 81677764333

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.172+/-0.000

χ^2/NDF : 150181697791974119042789817712640.0/16

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.160+/-0.000

χ^2/NDF : 3014389581782251

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.149+/-0.000

χ^2/NDF : 151066157255966494669604044931072.0/19

In: 88.618+/-0.000 χ^2/NDF : 245974793241878032

Out: 88.627+/-0.000

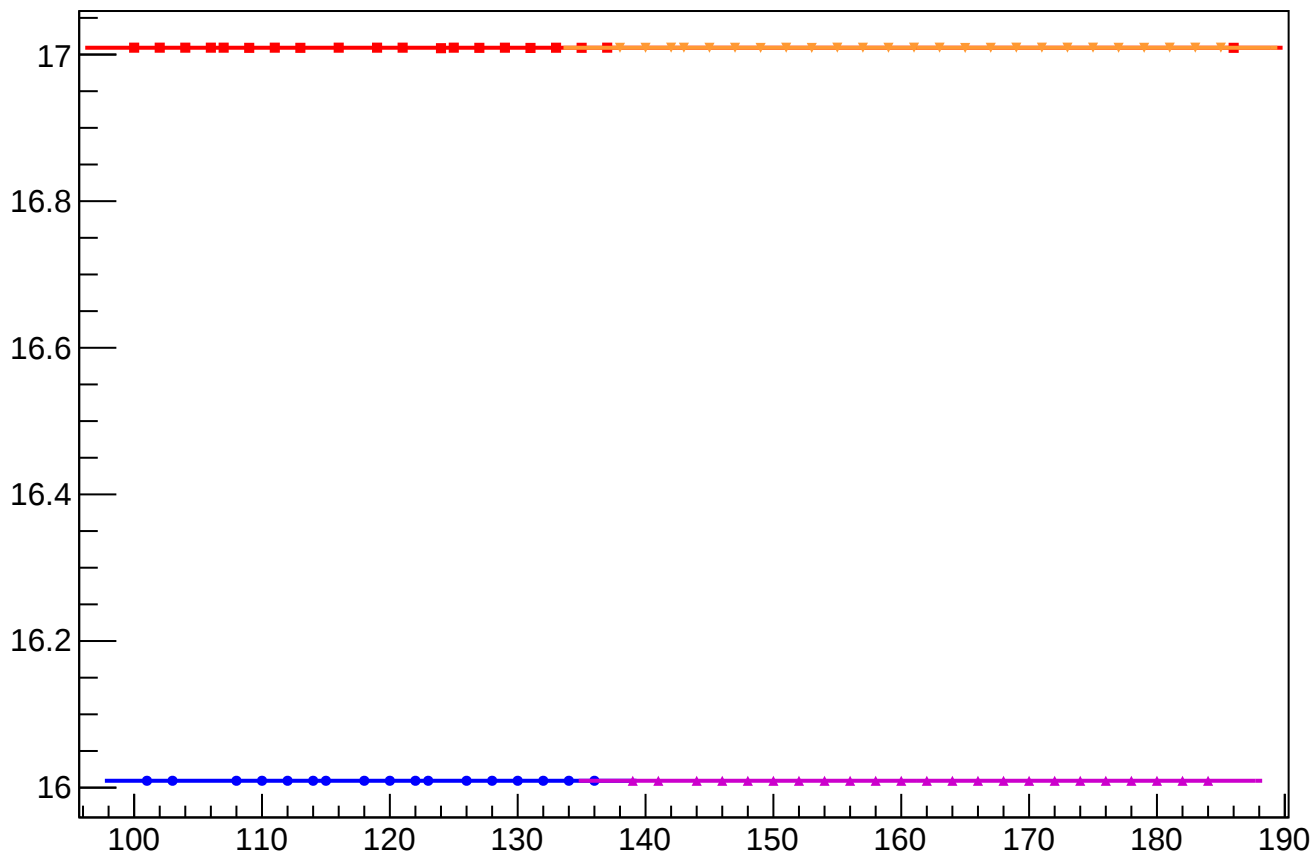
χ^2/NDF : 26073676877806105

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

All: 88.623+/-0.000 χ^2/NDF : 5067199517904

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2/NDF : 38900.3/16

Left Out: 17.009 $\pm$ 0.000 χ^2/NDF : 26194929080144976634970112.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2/NDF : 12979914921503733711896576.0/19

Left In: 16.009 $\pm$ 0.000 χ^2/NDF : 127920993667935400624128.0/22

Left: 16.524 $\pm$ 0.000 χ^2/NDF : 85855870772921272

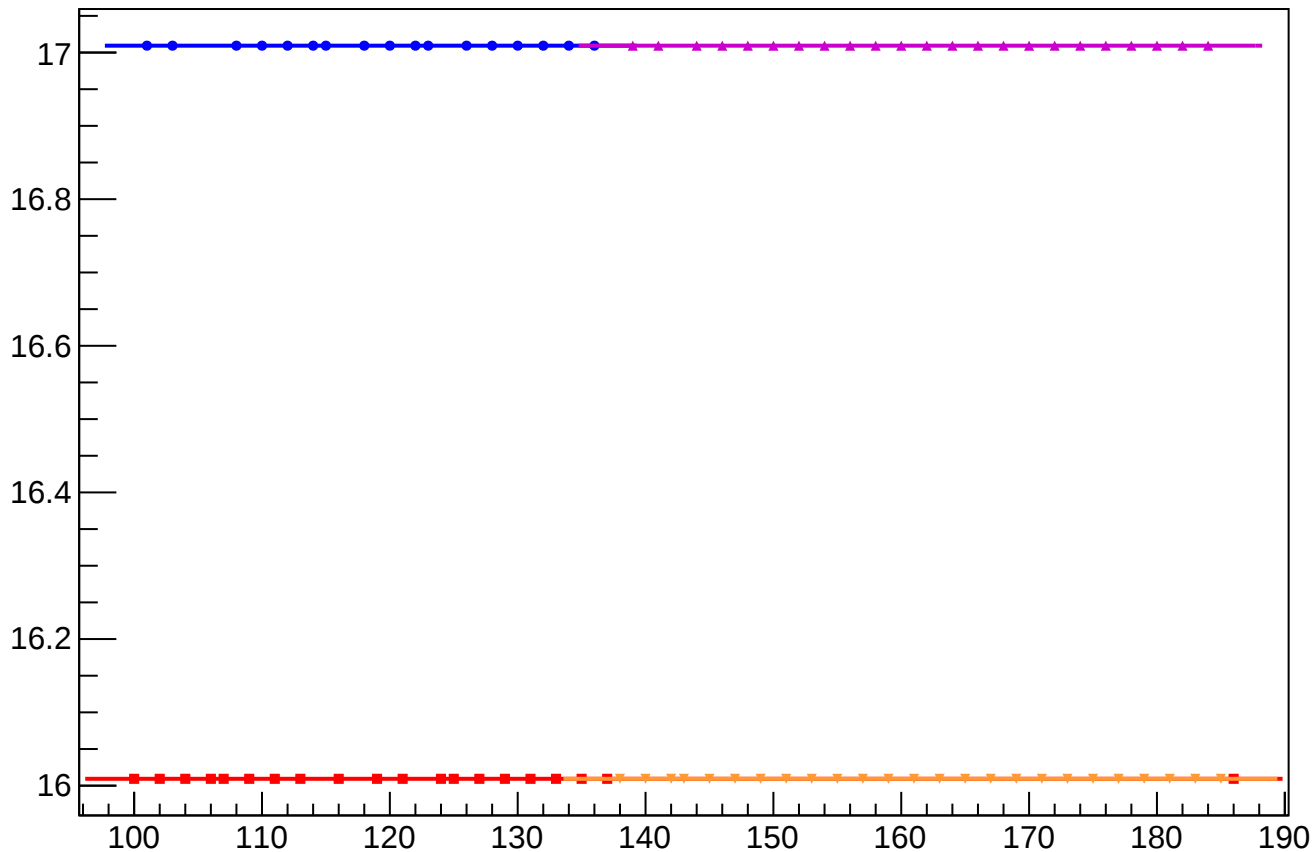
Right: 16.521 $\pm$ 0.000 χ^2/NDF : 3372447916318397

In: 16.009 $\pm$ 0.000 χ^2/NDF : 129579026151352316

Out: 17.009 $\pm$ 0.000 χ^2/NDF : 39249191091324572

All: 16.523 $\pm$ 0.000 χ^2/NDF : 1195812077993

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 119200.0/16

Left Out: 16.009+/-0.000 χ^2/NDF : 61253.5/24

Right Out: 16.009+/-0.000 χ^2/NDF : 39556.6/19

Left In: 17.009+/-0.000 χ^2/NDF : 114986101427233622065152.0/22

Left: 16.491+/-0.000 χ^2/NDF : 90683349233974458

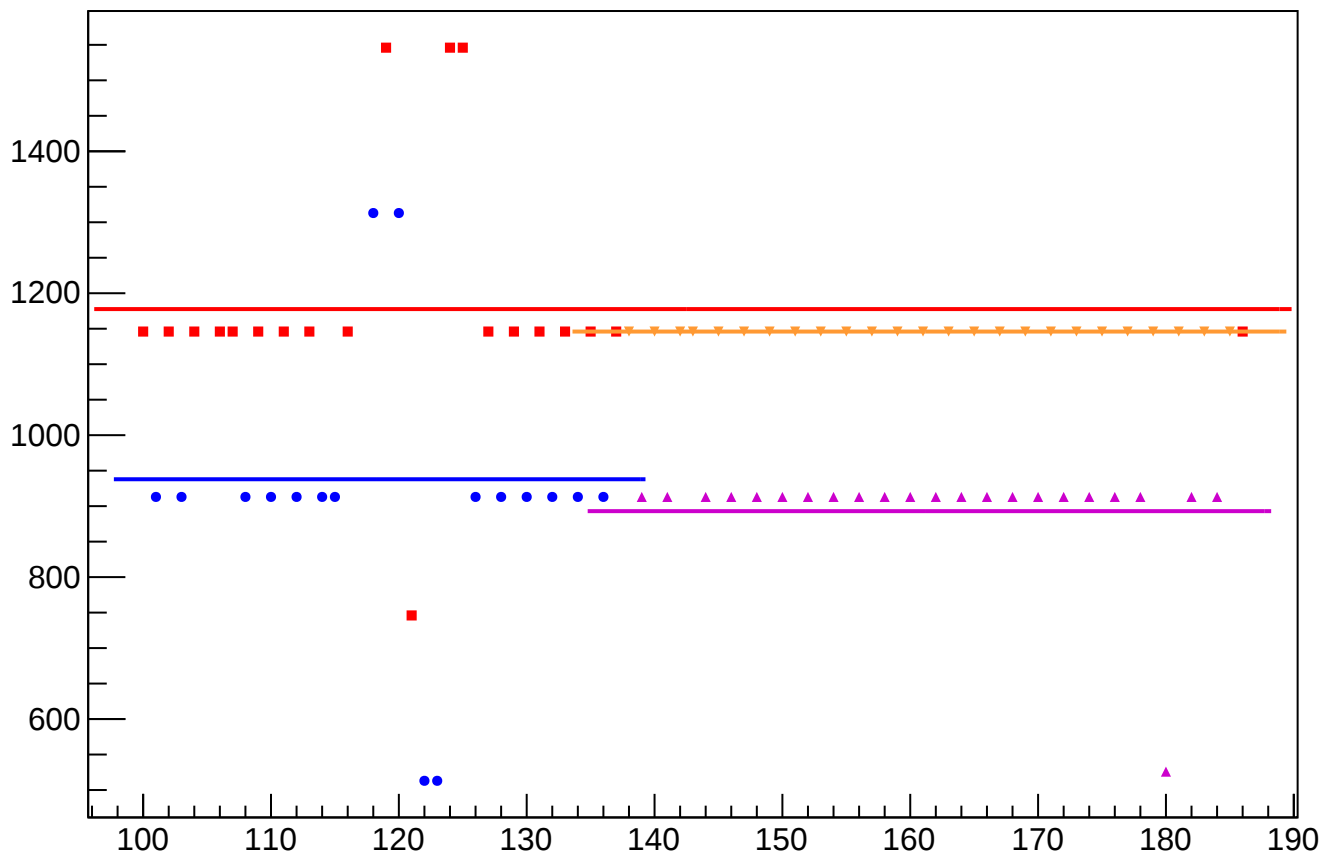
Right: 16.477+/-0.000 χ^2/NDF : 3509992907801262

In: 17.009+/-0.000 χ^2/NDF : 116511145094202532

Out: 16.009+/-0.000 χ^2/NDF : 311492.8/44

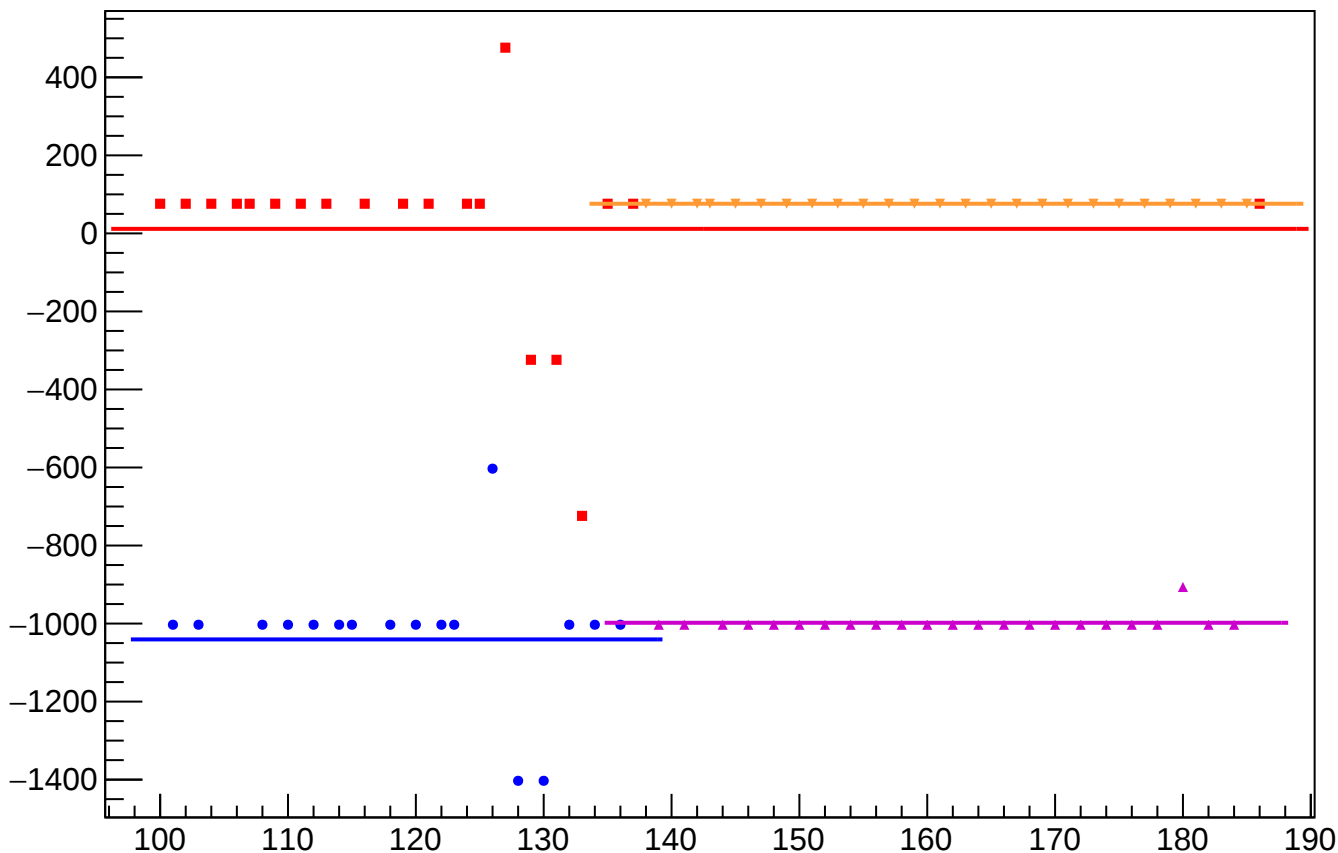
All: 16.487+/-0.000 χ^2/NDF : 1258053064378

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.887+/-0.000 χ^2/NDF : 20853195799113284359206128263972782080.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1177.672+/-0.000 χ^2/NDF : 21320818259795130126526255085836566528.0/19
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1034.494+/-0.000 χ^2/NDF : 1370487788

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1040.616+/-0.000 χ^2/NDF : 22221373085920074948025403120531013632.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: 11.630+/-0.000 χ^2/NDF : 43897956164204836843302096707514269696.0/19
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -457.829+/-0.000 χ^2/NDF : 15355943745