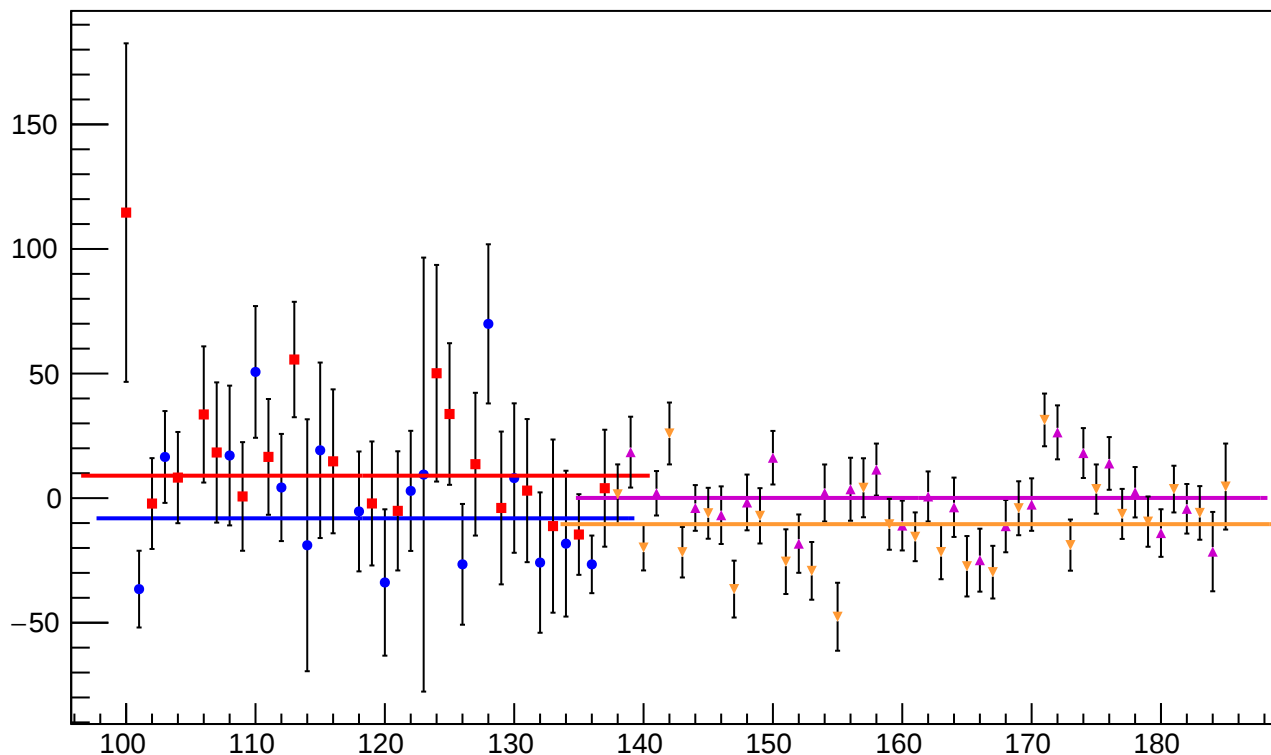


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.097 ± 5.619

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

Left Out: -10.441 ± 2.178

$\chi^2/\text{NDF}: 58.9/24$

Right Out: 9.015 ± 5.687

$\chi^2/\text{NDF}: 13.0/18$

Left In: 0.080 ± 2.251

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

Left: -5.352 ± 1.565

$\chi^2/\text{NDF}: 100.0/47$

Right: 0.356 ± 3.997

$\chi^2/\text{NDF}: 40.5/35$

In: -1.050 ± 2.089

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

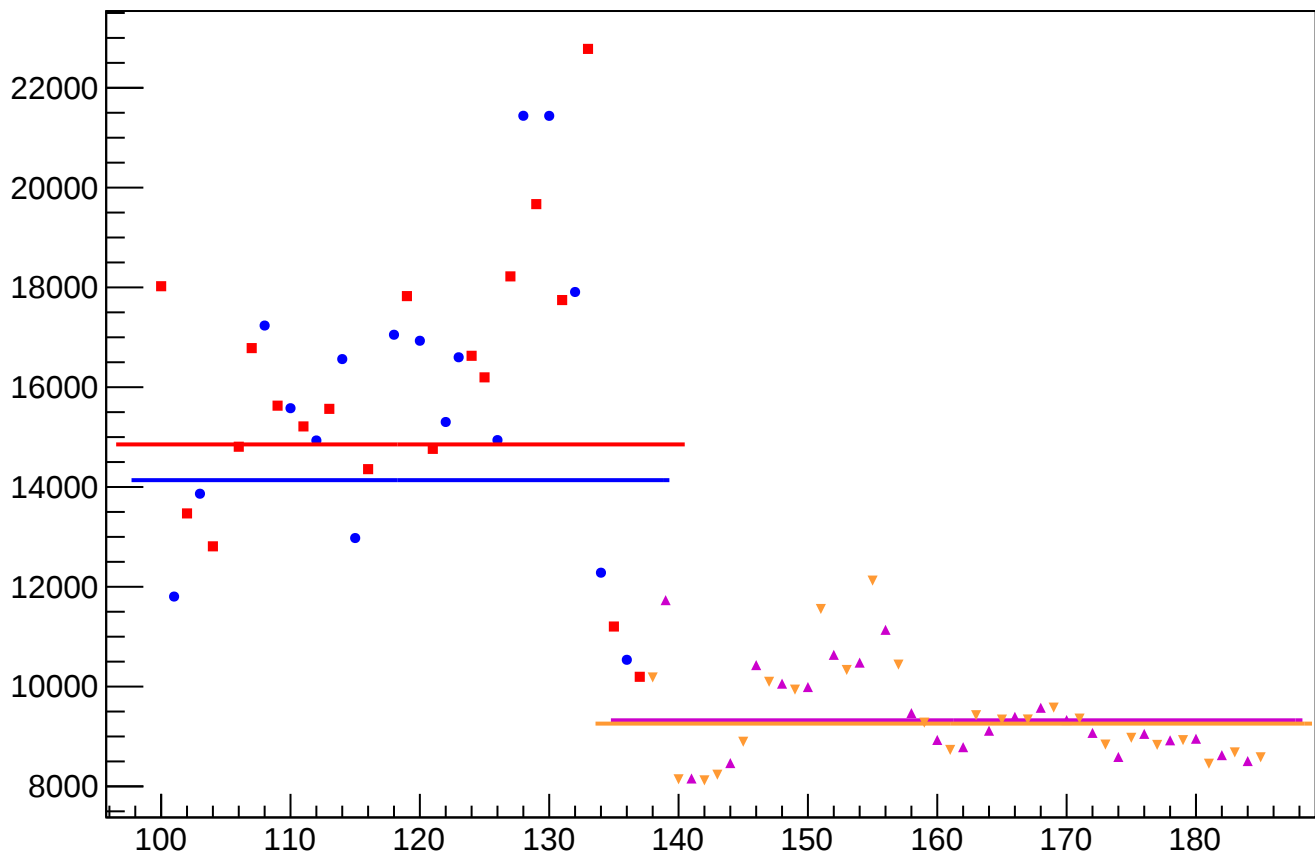
Out: -7.952 ± 2.034

$\chi^2/\text{NDF}: 82.1/43$

All: -4.593 ± 1.457

$\chi^2/\text{NDF}: 142.3/83$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14137.038+/-3.974 χ^2/NDF : 603041.9/16

Left Out: 9257.812+/-1.540 χ^2/NDF : 330282.8/24

Right Out: 14853.365+/-4.022 χ^2/NDF : 473842.5/18

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

Left: 9289.818+/-1.107 χ^2/NDF : 606892.5/47

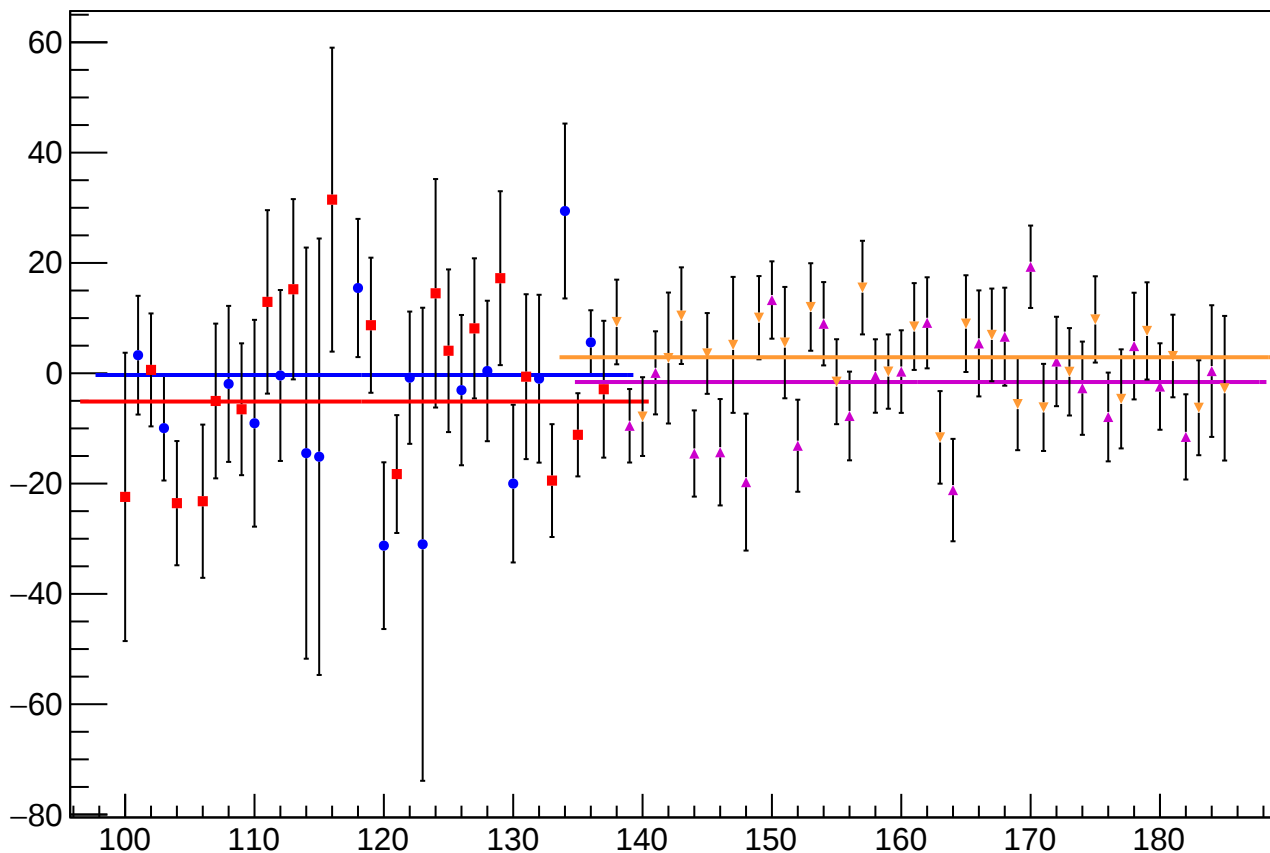
Right: 14490.905+/-2.827 χ^2/NDF : 1092938.6/35

In: 9989.252+/-1.477 χ^2/NDF : 2143128.9/39

Out: 9973.647+/-1.438 χ^2/NDF : 2492447.6/43

All: 9981.241+/-1.031 χ^2/NDF : 4635633.7/83

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 2.905 ± 1.665 χ^2/NDF : 18.5/24

Right Out: -5.127 ± 2.942 χ^2/NDF : 19.5/18

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

Left: 0.708 ± 1.191 χ^2/NDF : 57.6/47

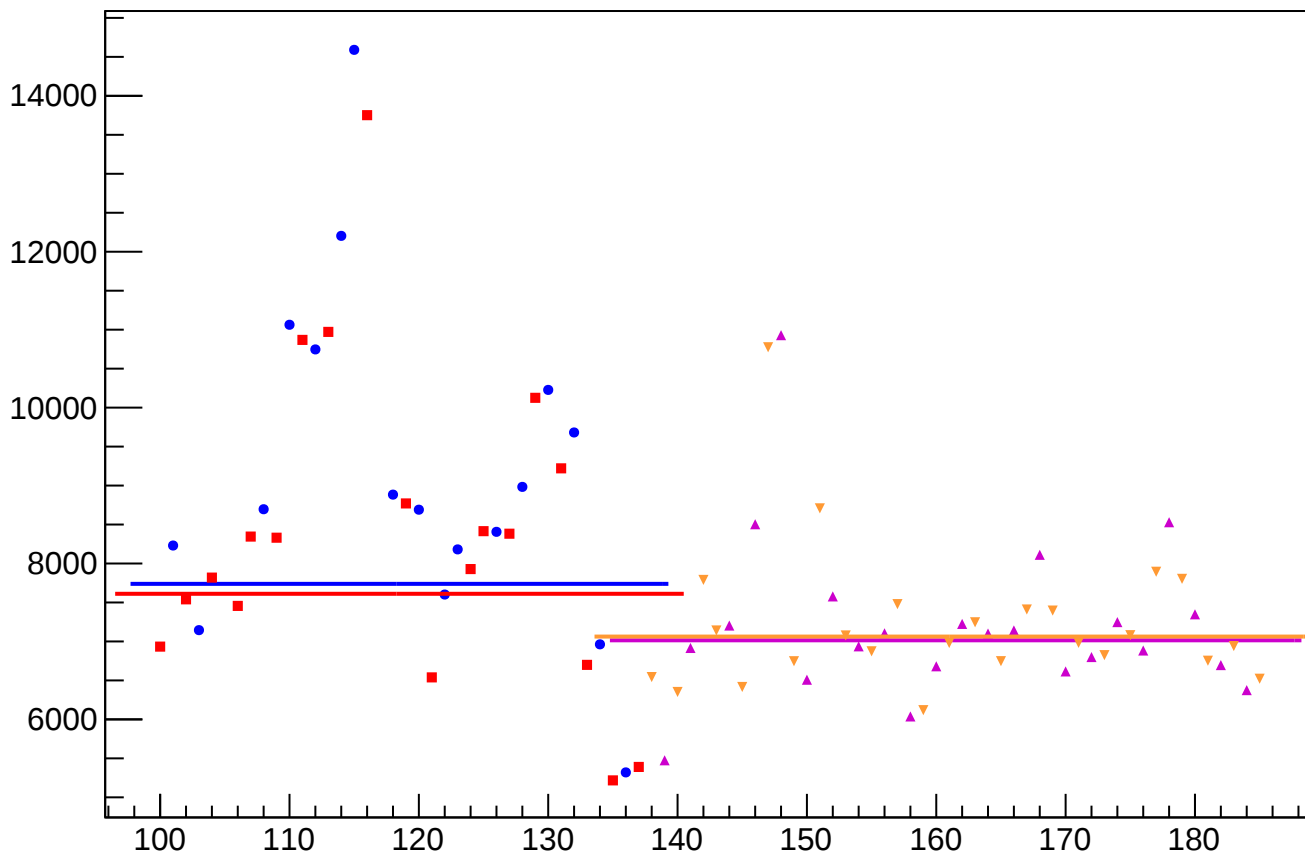
Right: -2.829 ± 2.126 χ^2/NDF : 35.3/35

In: -1.290 ± 1.490 χ^2/NDF : 50.1/39

Out: 0.956 ± 1.449 χ^2/NDF : 43.7/43

All: -0.136 ± 1.039 χ^2/NDF : 94.9/83

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.934+/-2.176 χ^2/NDF : 740969.1/16

Left Out: 7062.609+/-1.178 χ^2/NDF : 386479.1/24

Right Out: 7611.390+/-2.080 χ^2/NDF : 683263.4/18

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

Left: 7039.122+/-0.842 χ^2/NDF : 912606.4/47

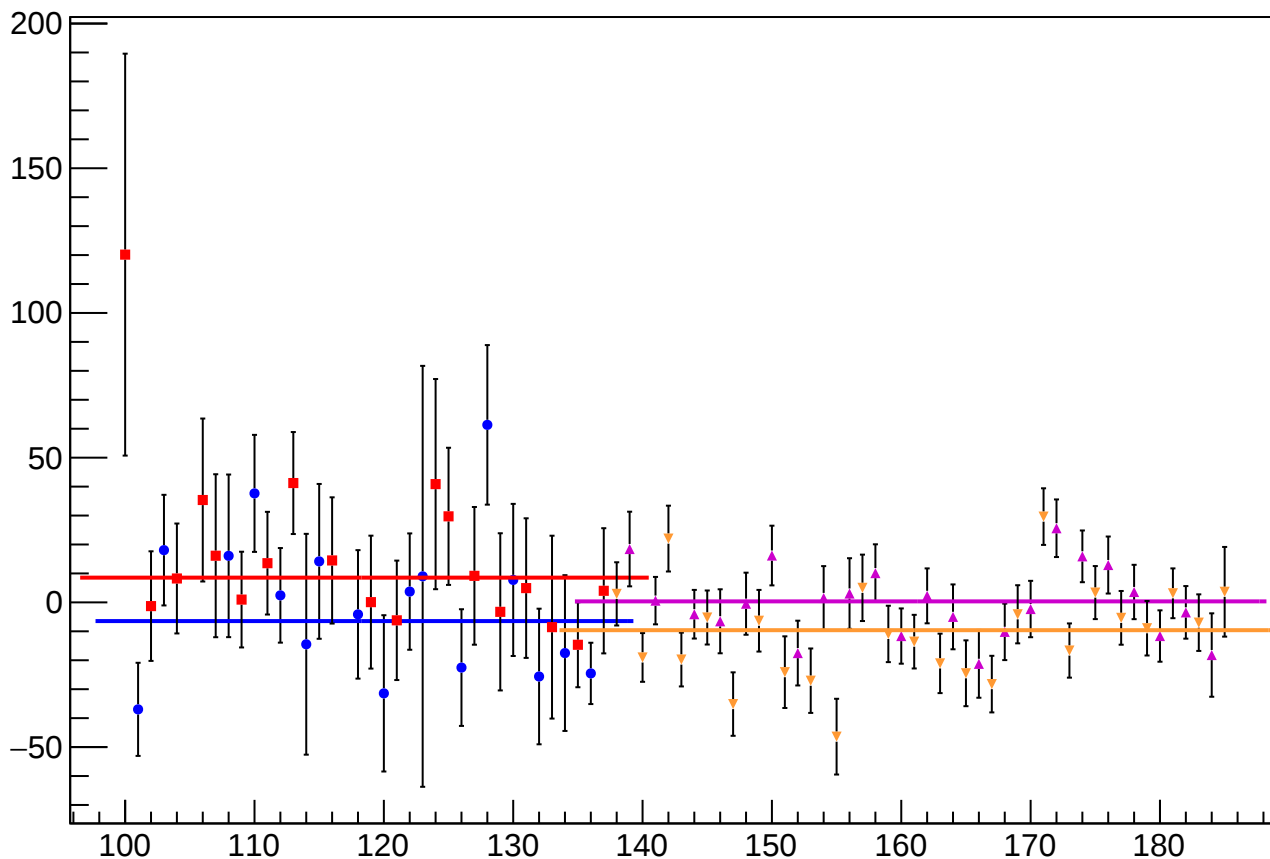
Right: 7672.308+/-1.504 χ^2/NDF : 1426027.8/35

In: 7184.379+/-1.053 χ^2/NDF : 1351147.1/39

Out: 7195.772+/-1.025 χ^2/NDF : 1122443.2/43

All: 7190.232+/-0.735 χ^2/NDF : 2473650.4/83

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.463+/-5.029 χ^2/NDF : 23.5/16

Left Out: -9.610+/-2.029 χ^2/NDF : 59.6/24

Right Out: 8.548+/-5.009 χ^2/NDF : 12.9/18

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

Left: -4.806+/-1.459 χ^2/NDF : 101.1/47

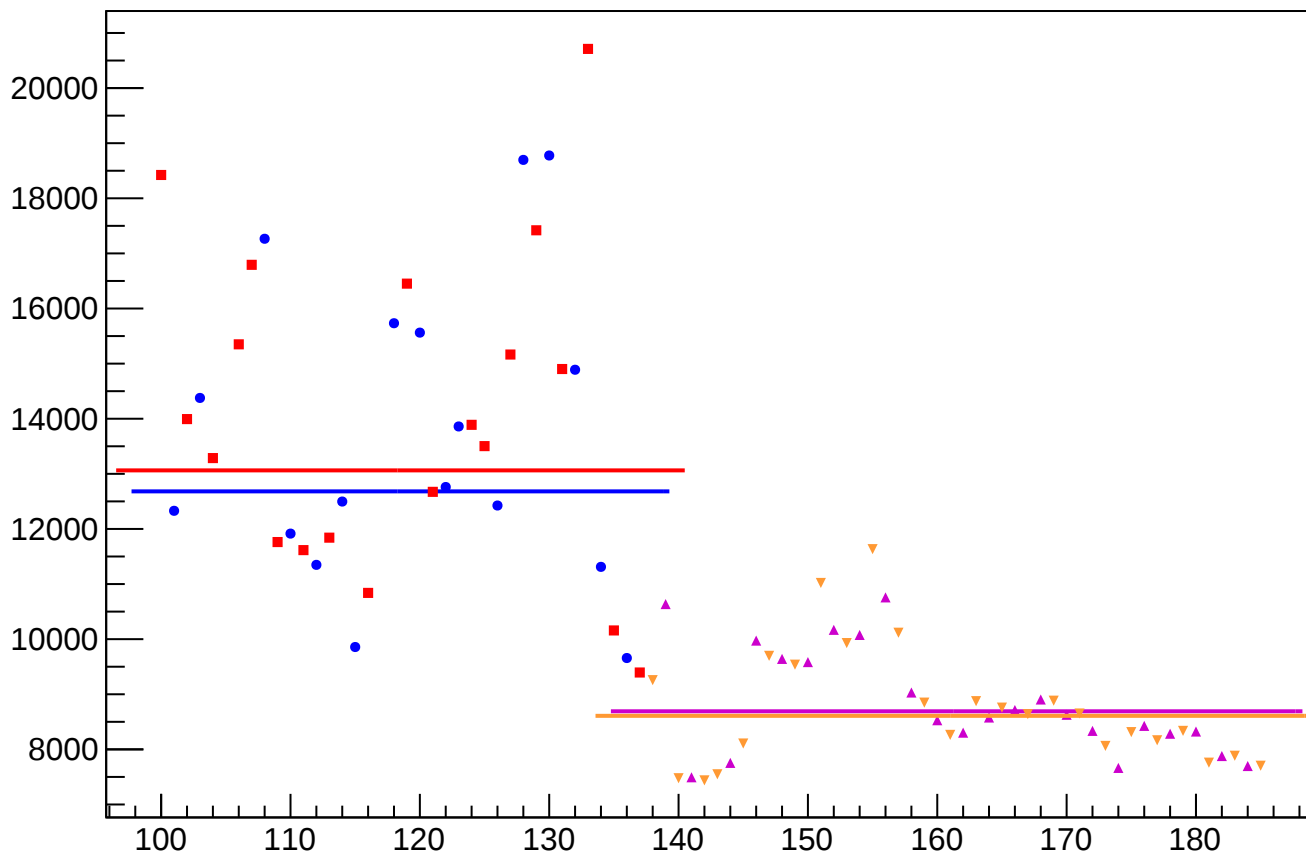
Right: 1.072+/-3.549 χ^2/NDF : 40.9/35

In: -0.667+/-1.938 χ^2/NDF : 55.0/39

Out: -7.051+/-1.880 χ^2/NDF : 83.8/43

All: -3.956+/-1.350 χ^2/NDF : 144.3/83

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8608.685 $\pm$ 1.435 χ^2 /NDF: 436186.7/24

Right Out: 13062.676 $\pm$ 3.542 χ^2 /NDF: 499222.2/18

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

Left: 8648.510 $\pm$ 1.032 χ^2 /NDF: 803038.2/47

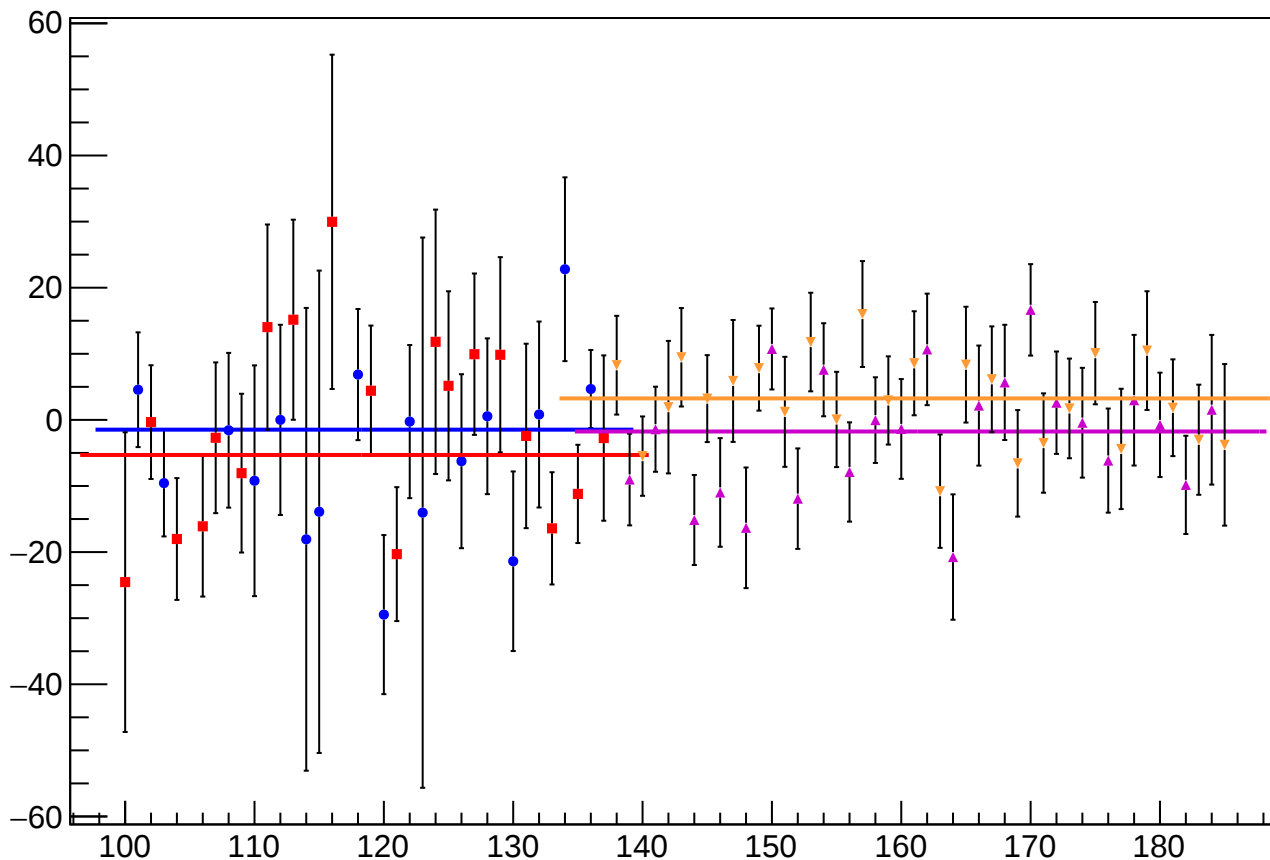
Right: 12873.023 $\pm$ 2.509 χ^2 /NDF: 1063620.9/35

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

Out: 9236.396 $\pm$ 1.330 χ^2 /NDF: 2294039.5/43

All: 9259.513 $\pm$ 0.954 χ^2 /NDF: 4291048.6/83

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.477 $\pm$ 2.795 χ^2/NDF : 14.7/16

Left Out: 3.250 $\pm$ 1.557 χ^2/NDF :17.0/24

Right Out: -5.307 $\pm$ 2.645 χ^2/NDF : 18.9/18

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

Left: 0.826 $\pm$ 1.118 χ^2/NDF : 55.5/47

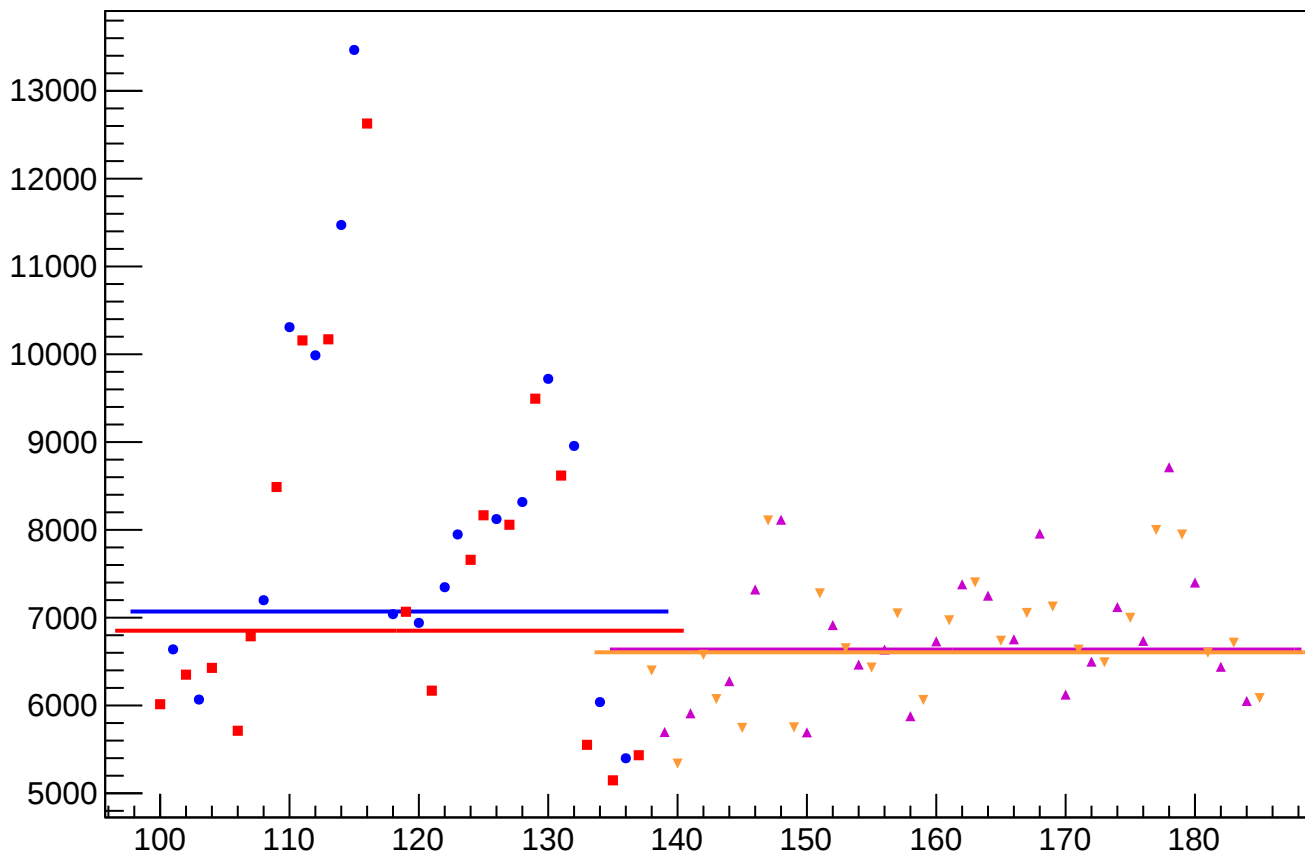
Right: -3.498 $\pm$ 1.921 χ^2/NDF : 34.6/35

In: -1.687 $\pm$ 1.393 χ^2/NDF :48.3/39

Out: 1.047 $\pm$ 1.342 χ^2/NDF :43.6/43

All: -0.268 $\pm$ 0.966 χ^2/NDF : 93.9/83

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6605.818+/-1.101 χ^2/NDF : 395075.8/24

Right Out: 6851.593+/-1.870 χ^2/NDF : 688585.4/18

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

Left: 6620.992+/-0.791 χ^2/NDF : 811015.6/47

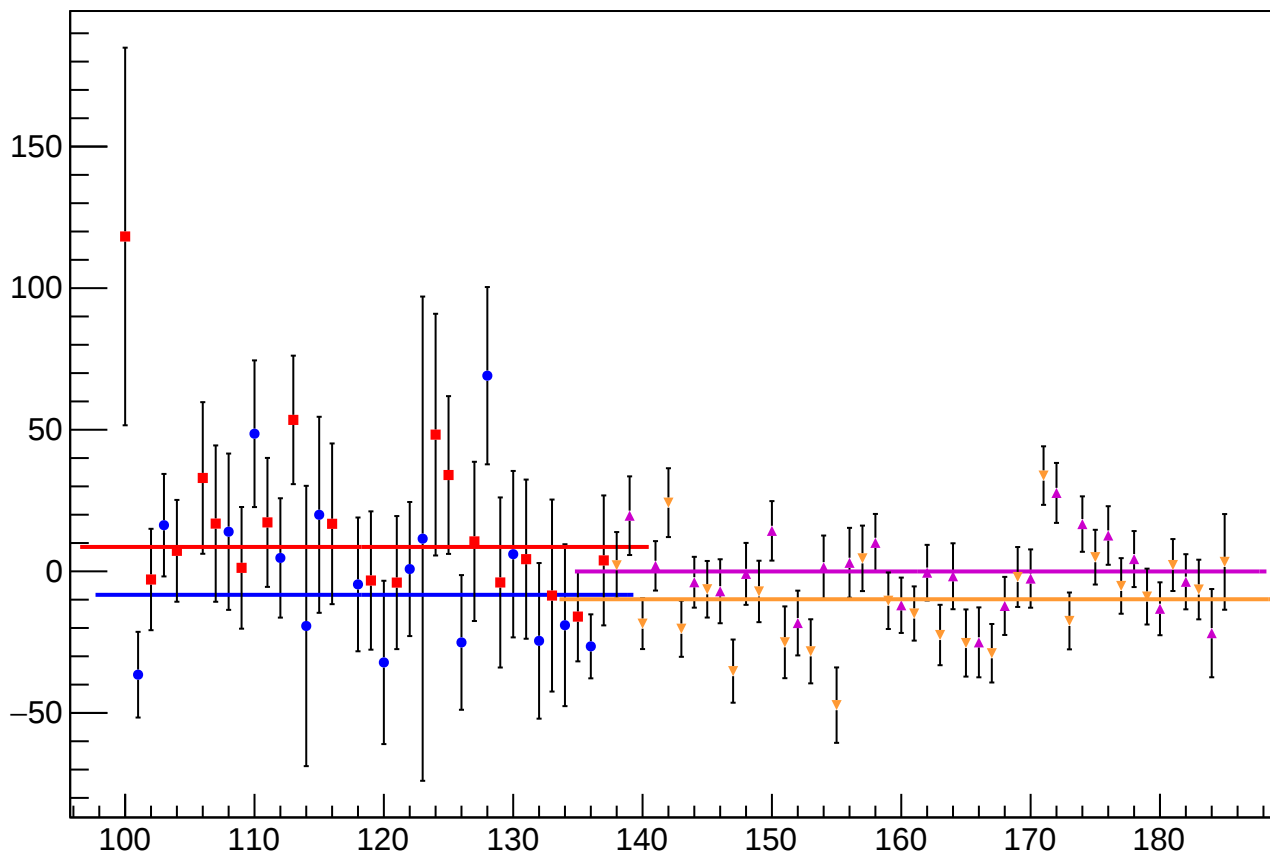
Right: 6954.858+/-1.358 χ^2/NDF : 1295919.6/35

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

Out: 6669.086+/-0.949 χ^2/NDF : 1096488.5/43

All: 6705.490+/-0.683 χ^2/NDF : 2152055.2/83

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -9.854 ± 2.130 $\chi^2/\text{NDF}: 60.6/24$

Right Out: 8.615 ± 5.576 $\chi^2/\text{NDF}: 13.4/18$

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

Left: -5.108 ± 1.530 $\chi^2/\text{NDF}: 101.7/47$

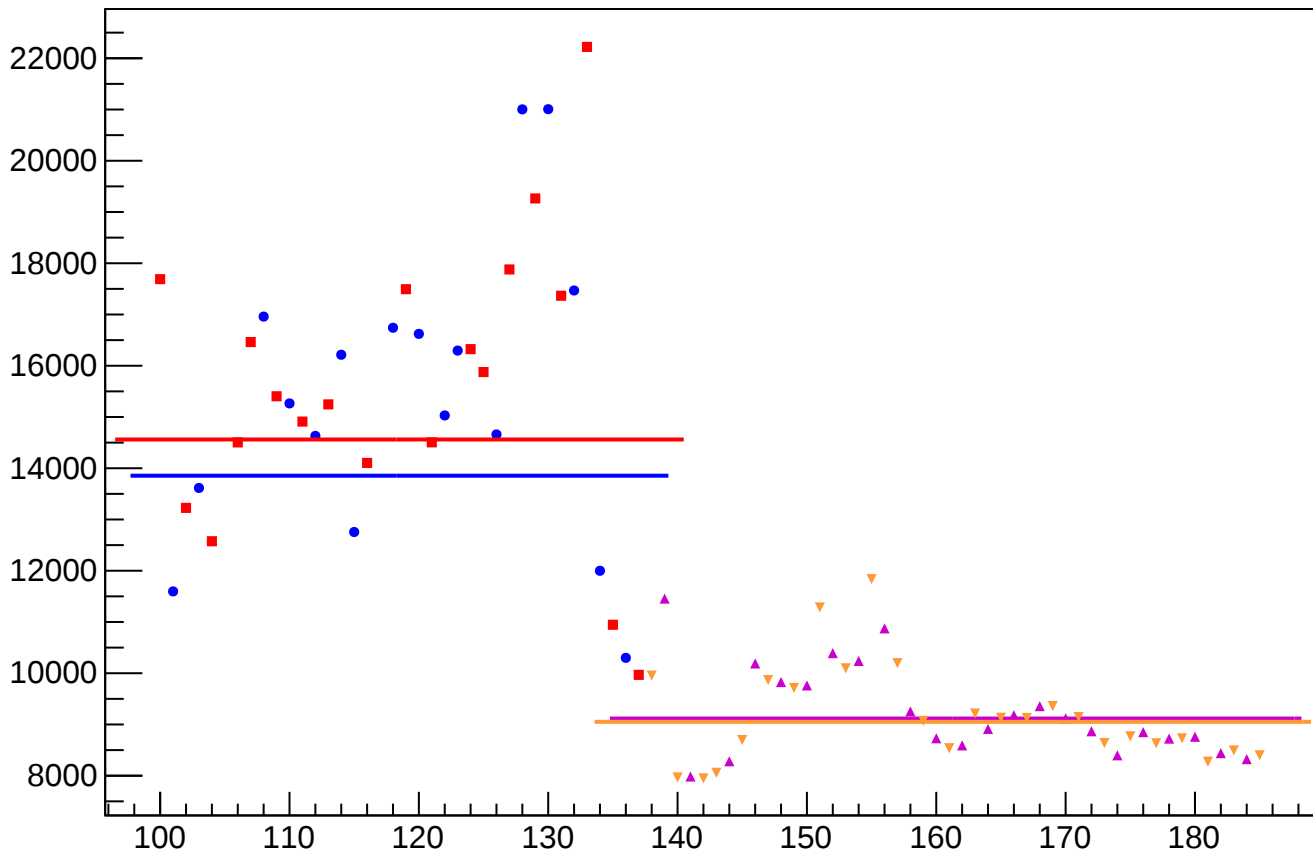
Right: 0.058 ± 3.918 $\chi^2/\text{NDF}: 40.8/35$

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

Out: -7.503 ± 1.989 $\chi^2/\text{NDF}: 83.6/43$

All: -4.424 ± 1.425 $\chi^2/\text{NDF}: 144.0/83$

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9051.689 $\pm$ 1.506 χ^2 /NDF:326498.1/24

Right Out: 14561.025 $\pm$ 3.943 χ^2 /NDF: 475761.5/18

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

Left: 9082.708 $\pm$ 1.082 χ^2 /NDF: 599847.1/47

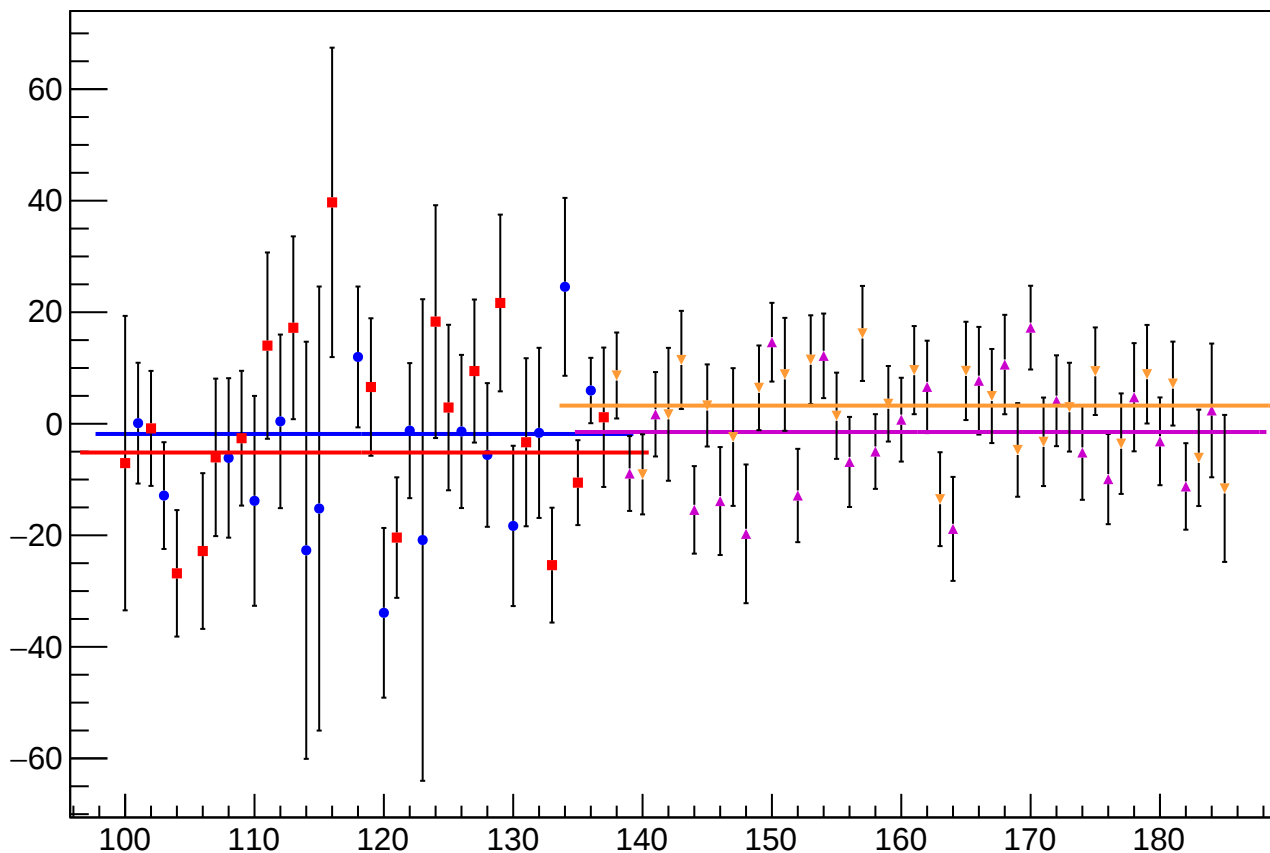
Right: 14203.439 $\pm$ 2.771 χ^2 /NDF: 1098217.6/35

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

Out: 9753.071 $\pm$ 1.407 χ^2 /NDF:2506332.2/43

All: 9760.280 $\pm$ 1.008 χ^2 /NDF: 4661727.9/83

diff_bpm4acY_mean vs Slug, Sign Corrected



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

Left Out: 3.259 ± 1.673 χ^2/NDF : 19.5/24

Right Out: -5.156 ± 2.965 χ^2/NDF : 24.5/18

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

Left: 0.942 ± 1.196 χ^2/NDF : 60.2/47

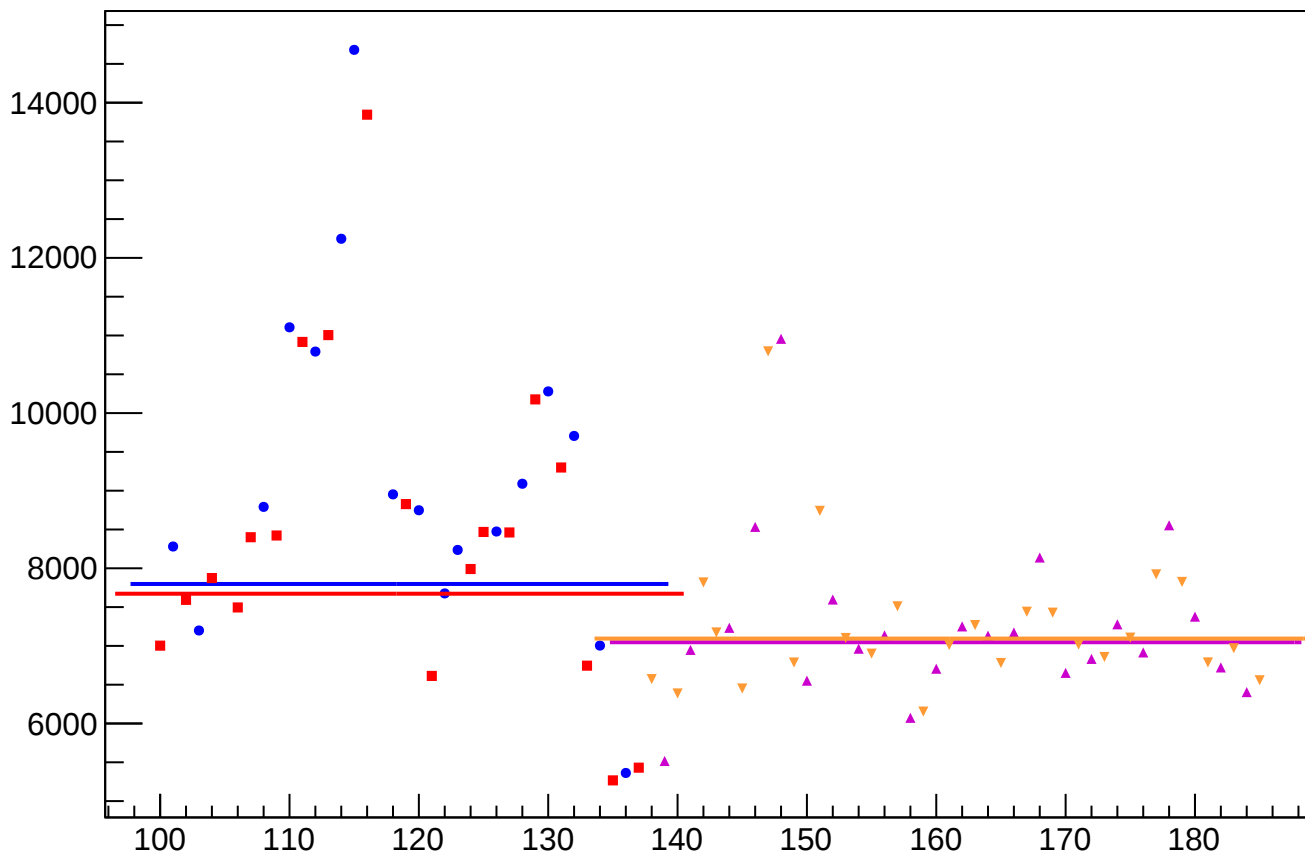
Right: -3.566 ± 2.142 χ^2/NDF : 39.2/35

In: -1.561 ± 1.497 χ^2/NDF : 50.8/39

Out: 1.227 ± 1.457 χ^2/NDF : 50.1/43

All: -0.128 ± 1.044 χ^2/NDF : 102.7/83

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7094.548 $\pm$ 1.183 χ^2 /NDF: 381606.6/24

Right Out: 7672.429 $\pm$ 2.096 χ^2 /NDF: 676691.4/18

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

Left: 7071.434 $\pm$ 0.846 χ^2 /NDF: 899821.3/47

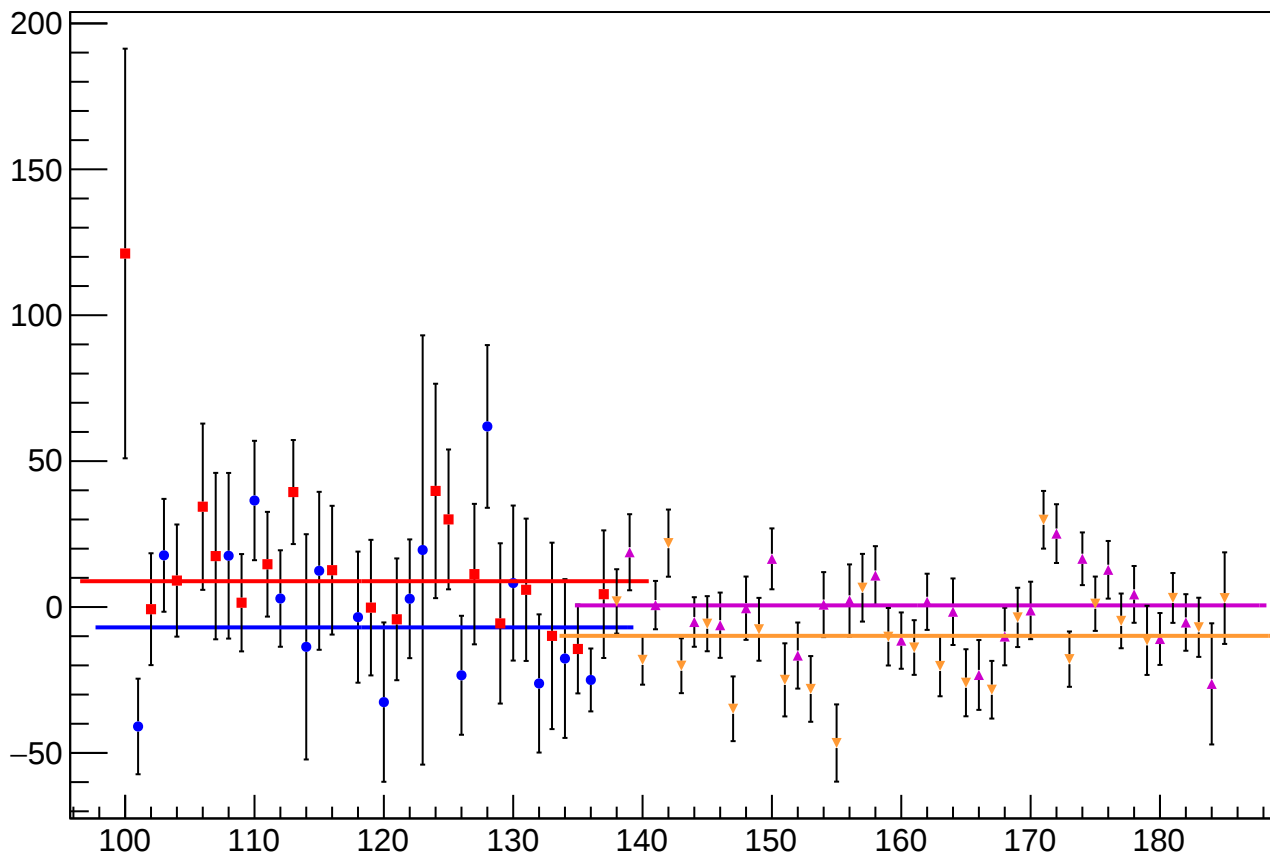
Right: 7732.419 $\pm$ 1.515 χ^2 /NDF: 1414723.9/35

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

Out: 7234.068 $\pm$ 1.030 χ^2 /NDF: 1115937.2/43

All: 7228.430 $\pm$ 0.738 χ^2 /NDF: 2459690.3/83

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 5.096 $\chi^2/\text{NDF}: 24.0/16$

Left Out: -9.872 ± 2.069 $\chi^2/\text{NDF}: 58.7/24$

Right Out: 8.848 ± 5.080 $\chi^2/\text{NDF}: 12.0/18$

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

Left: -4.840 ± 1.489 $\chi^2/\text{NDF}: 100.7/47$

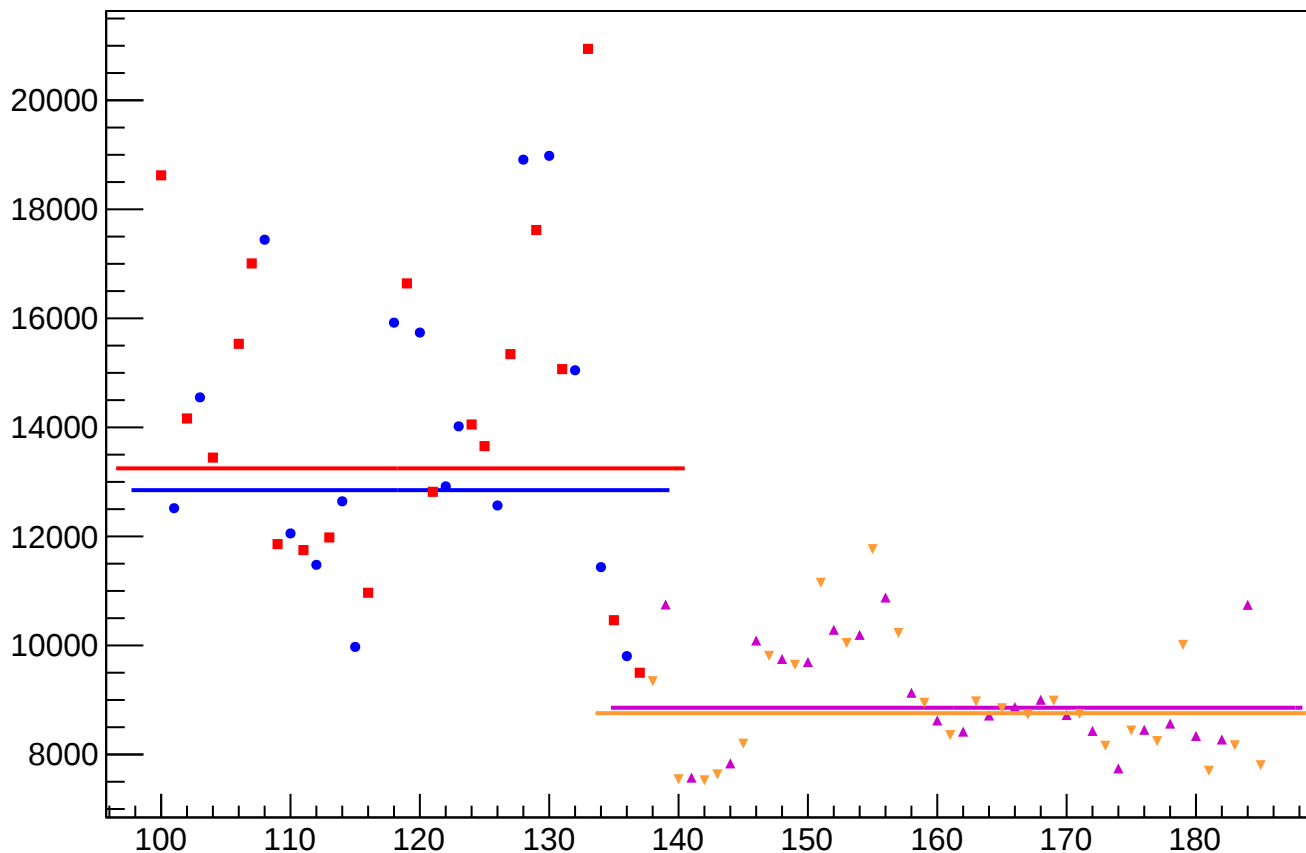
Right: 0.961 ± 3.598 $\chi^2/\text{NDF}: 40.9/35$

In: -0.570 ± 1.976 $\chi^2/\text{NDF}: 55.7/39$

Out: -7.209 ± 1.916 $\chi^2/\text{NDF}: 82.4/43$

All: -3.992 ± 1.375 $\chi^2/\text{NDF}: 143.8/83$

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8757.441 $\pm$ 1.463 χ^2 /NDF: 460919.8/24

Right Out: 13248.110 $\pm$ 3.592 χ^2 /NDF: 487206.6/18

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

Left: 8805.606 $\pm$ 1.053 χ^2 /NDF: 824947.2/47

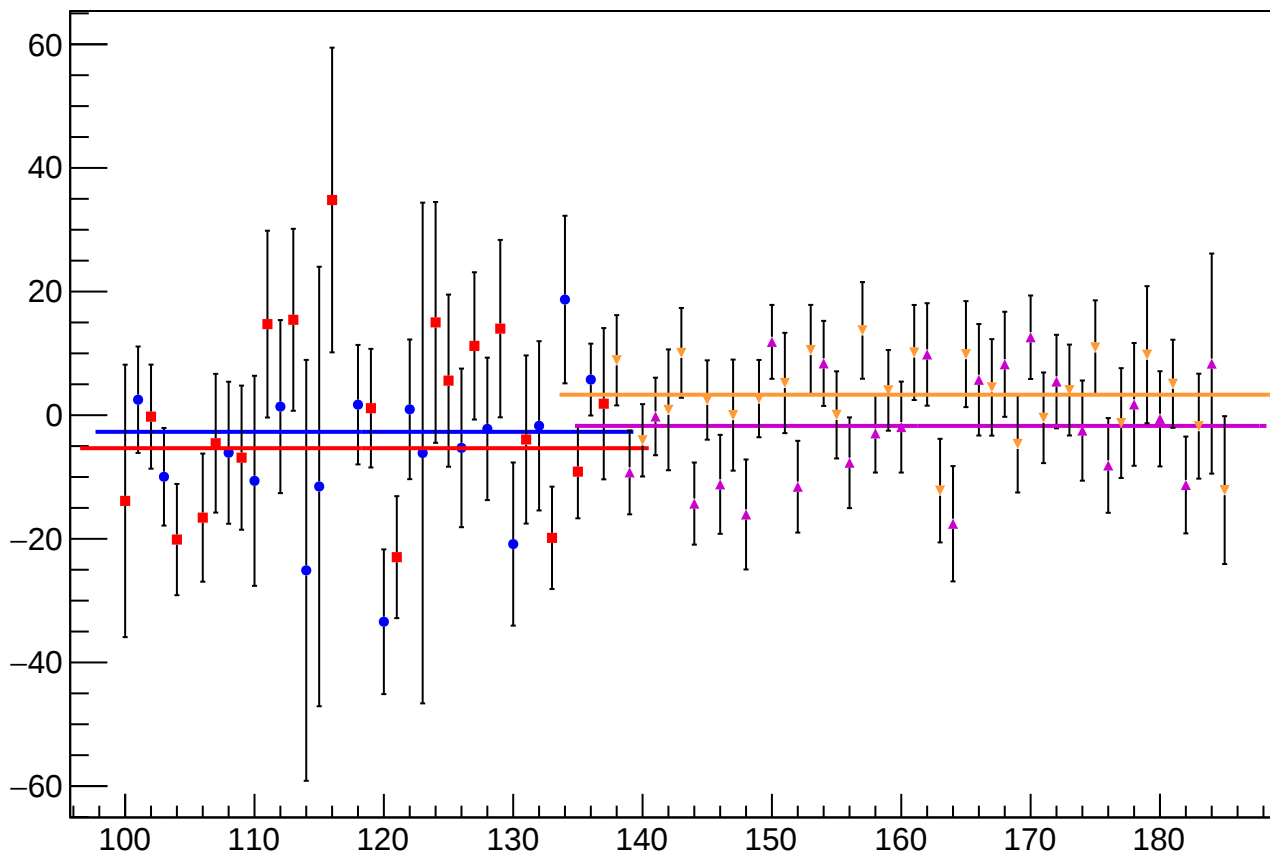
Right: 13049.037 $\pm$ 2.544 χ^2 /NDF: 1045578.8/35

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

Out: 9396.159 $\pm$ 1.355 χ^2 /NDF: 2288696.9/43

All: 9425.847 $\pm$ 0.973 χ^2 /NDF: 4246137.0/83

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.694 ± 2.736 $\chi^2/\text{NDF}: 15.9/16$

Left Out: 3.316 ± 1.531 $\chi^2/\text{NDF}: 16.1/24$

Right Out: -5.339 ± 2.592 $\chi^2/\text{NDF}: 23.6/18$

Left In: -1.734 ± 1.586 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.880 ± 1.101 $\chi^2/\text{NDF}: 55.0/47$

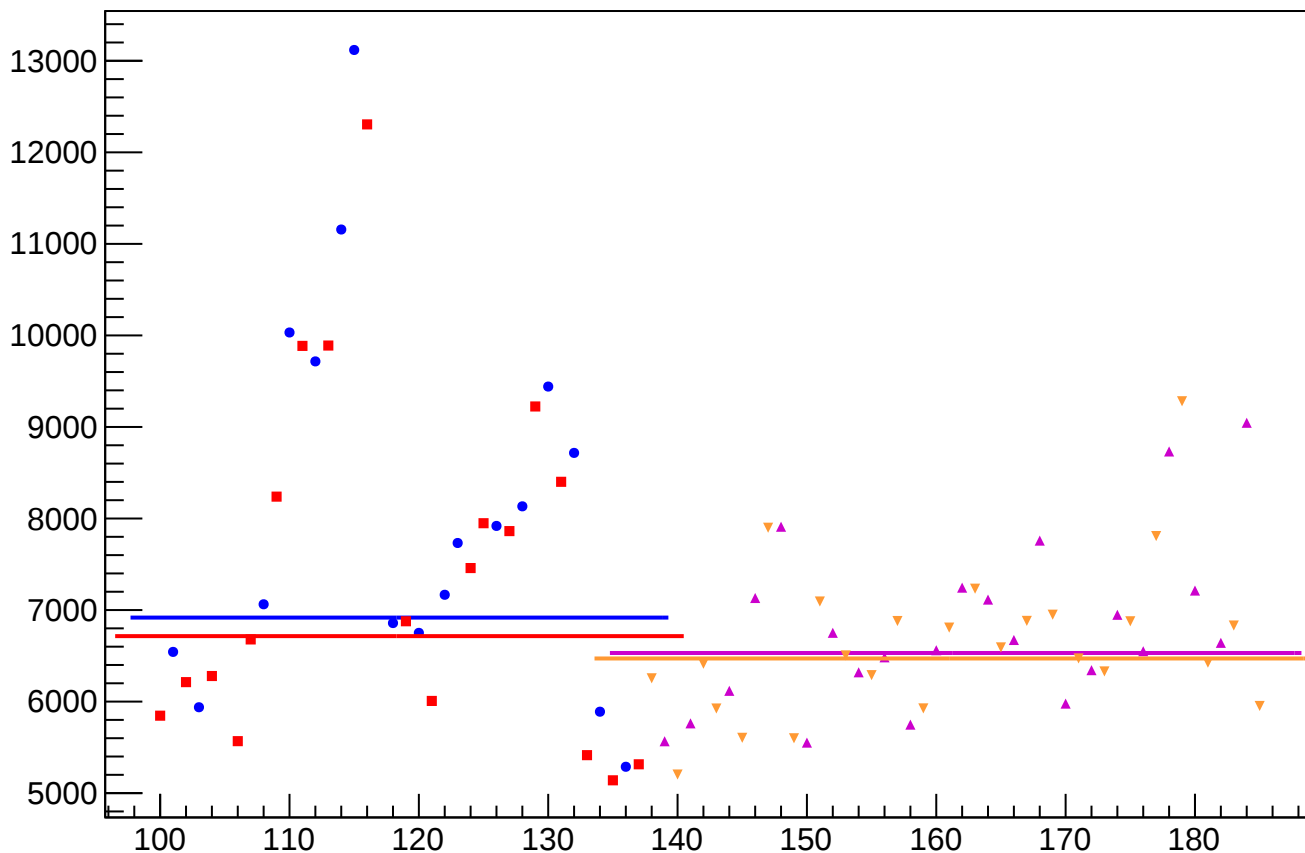
Right: -4.088 ± 1.882 $\chi^2/\text{NDF}: 39.9/35$

In: -1.976 ± 1.372 $\chi^2/\text{NDF}: 49.5/39$

Out: 1.078 ± 1.318 $\chi^2/\text{NDF}: 48.0/43$

All: -0.388 ± 0.951 $\chi^2/\text{NDF}: 100.1/83$

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6470.927+/-1.083 χ^2/NDF : 486946.1/24

Right Out: 6715.087+/-1.833 χ^2/NDF : 660008.2/18

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

Left: 6499.883+/-0.779 χ^2/NDF : 953097.9/47

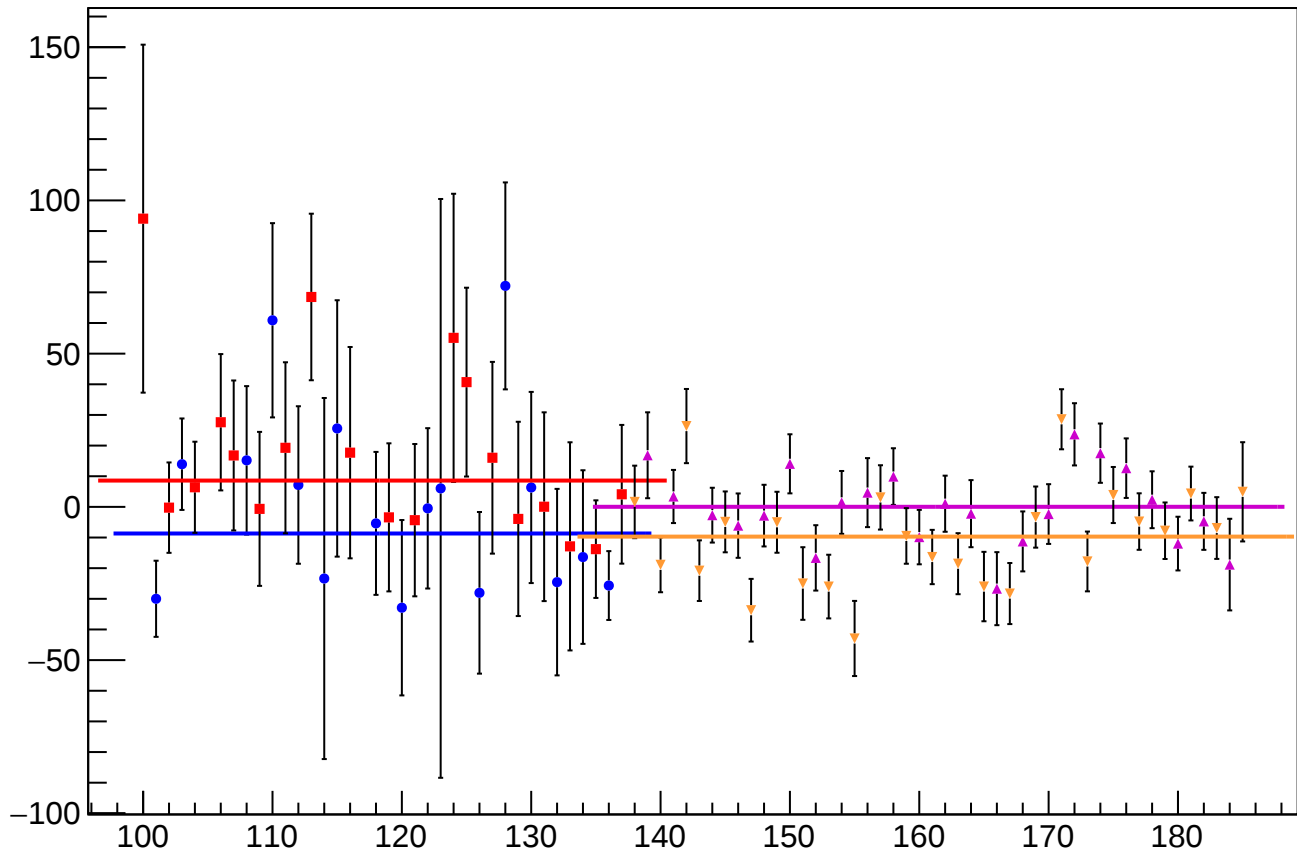
Right: 6810.919+/-1.331 χ^2/NDF : 1252951.3/35

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

Out: 6534.062+/-0.932 χ^2/NDF : 1160108.5/43

All: 6579.242+/-0.672 χ^2/NDF : 2246742.4/83

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -9.701 +/- 2.022 χ^2/NDF : 60.3/24

Right Out: 8.586 +/- 5.516 χ^2/NDF : 14.0/18

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

Left: -4.974 +/- 1.450 χ^2/NDF : 101.4/47

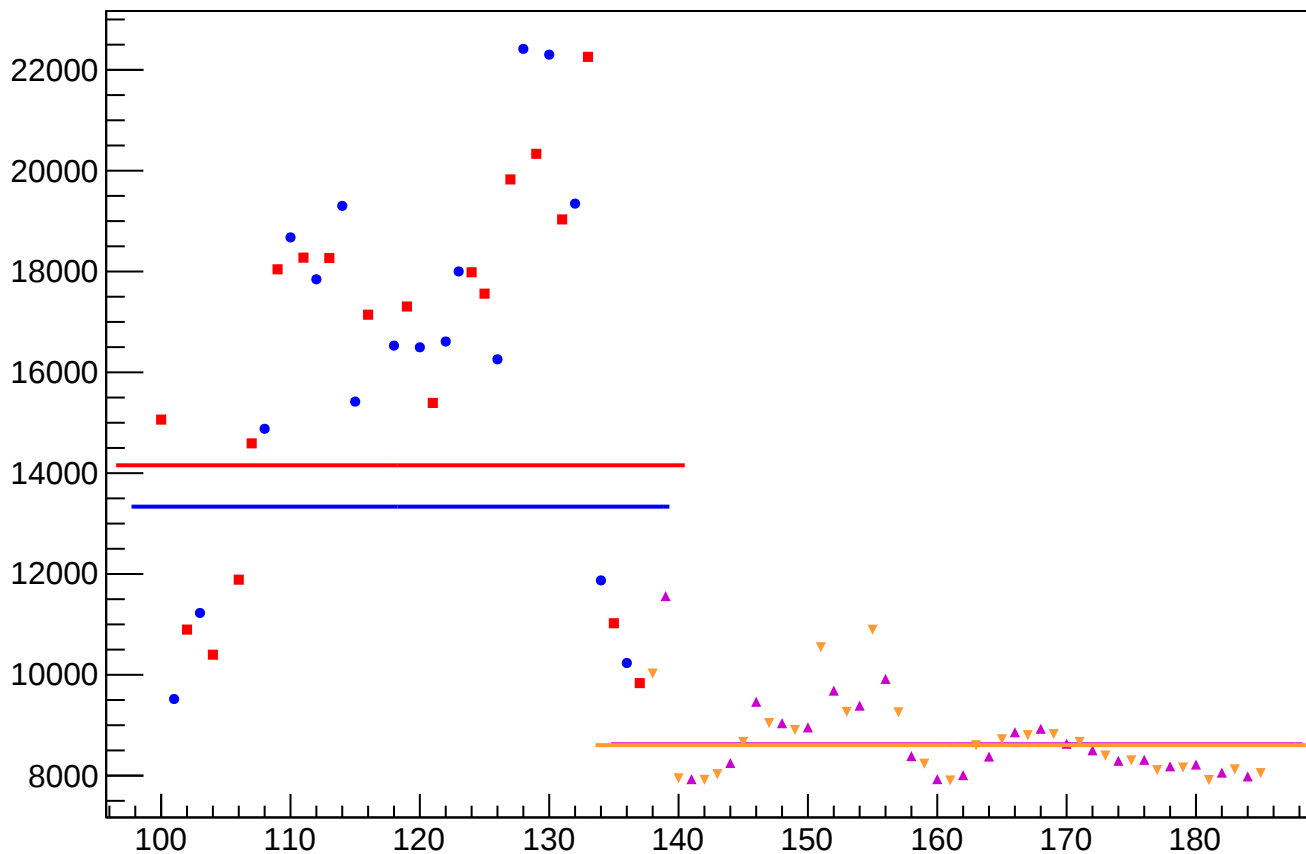
Right: -0.232 +/- 3.859 χ^2/NDF : 41.1/35

In: -1.098 +/- 1.941 χ^2/NDF : 54.3/39

Out: -7.534 +/- 1.899 χ^2/NDF : 84.0/43

All: -4.387 +/- 1.357 χ^2/NDF : 143.9/83

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13335.843 $\pm$ 3.819 χ^2/NDF : 1049247.5/16

Left Out: 8604.681 $\pm$ 1.430 χ^2/NDF :248417.0/24

Right Out: 14155.967 $\pm$ 3.901 χ^2/NDF : 932431.0/18

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

Left: 8613.084 $\pm$ 1.025 χ^2/NDF : 479312.5/47

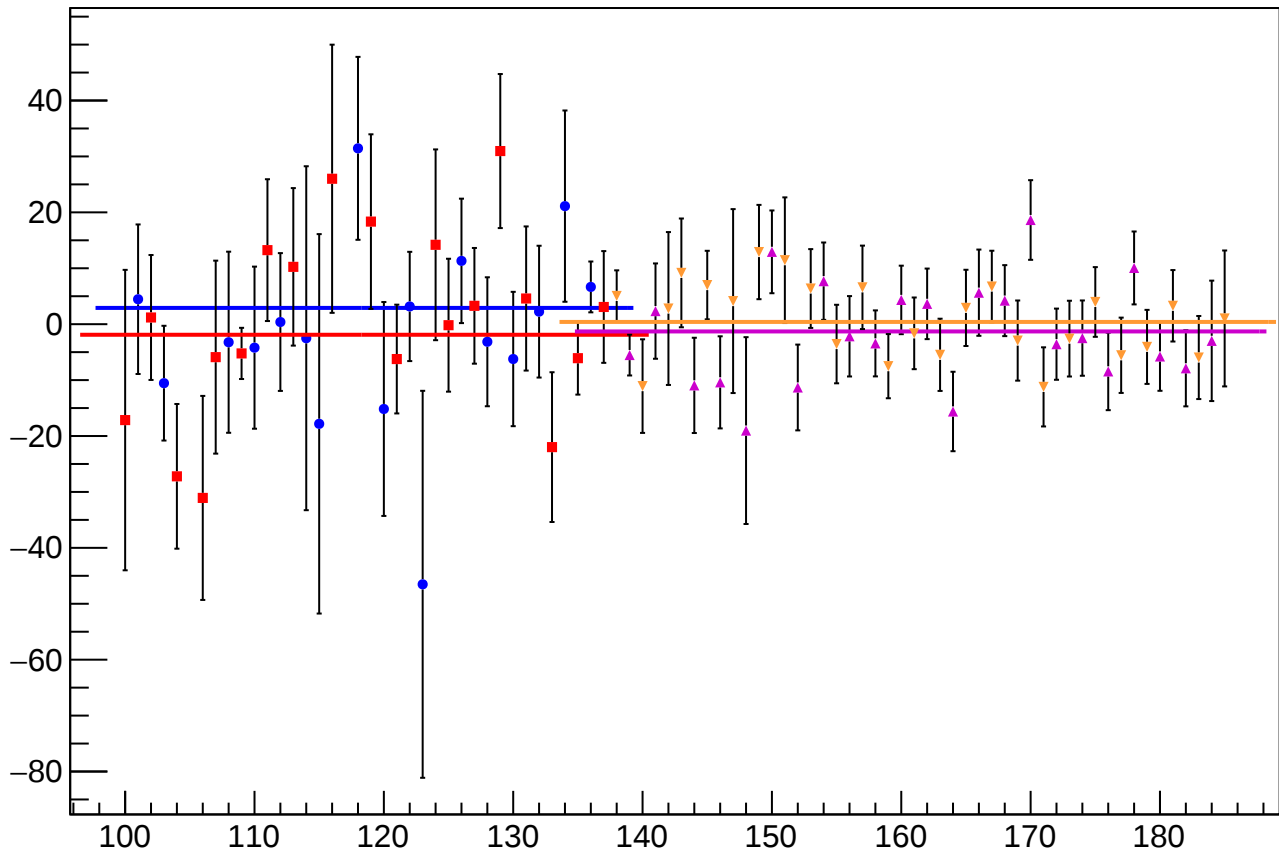
Right: 13737.272 $\pm$ 2.729 χ^2/NDF : 2004248.2/35

In: 9230.677 $\pm$ 1.372 χ^2/NDF :2606692.6/39

Out: 9262.263 $\pm$ 1.342 χ^2/NDF :2966431.0/43

All: 9246.819 $\pm$ 0.960 χ^2/NDF : 5573394.3/83

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.911 ± 2.758 $\chi^2/\text{NDF}: 11.8/16$

Left Out: 0.404 ± 1.422 $\chi^2/\text{NDF}: 19.4/24$

Right Out: -1.892 ± 2.444 $\chi^2/\text{NDF}: 22.8/18$

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

Left: -0.456 ± 1.000 $\chi^2/\text{NDF}: 53.2/47$

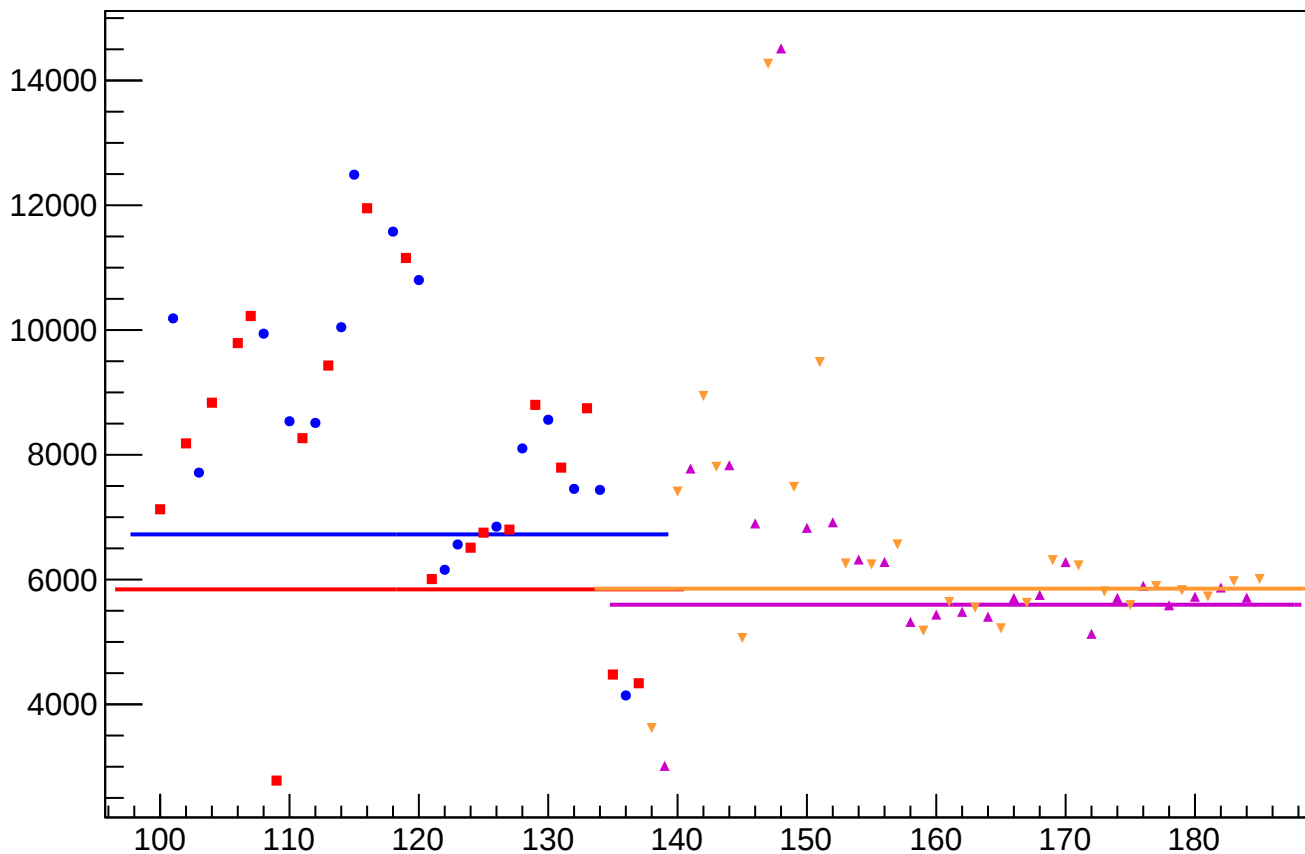
Right: 0.221 ± 1.829 $\chi^2/\text{NDF}: 36.3/35$

In: -0.430 ± 1.253 $\chi^2/\text{NDF}: 46.7/39$

Out: -0.176 ± 1.229 $\chi^2/\text{NDF}: 42.9/43$

All: -0.301 ± 0.877 $\chi^2/\text{NDF}: 89.6/83$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6724.403+/-1.950

χ^2/NDF : 1391680.1/16

Left: 5724.247+/-0.707

χ^2/NDF : 3795481.3/47

Left Out: 5854.533+/-1.006

χ^2/NDF : 1672540.3/24

Right: 6230.735+/-1.293

χ^2/NDF : 3786855.2/35

Right Out: 5843.007+/-1.728

χ^2/NDF : 2280742.0/18

In: 5829.564+/-0.886

χ^2/NDF : 3746778.4/39

Out: 5851.617+/-0.869

χ^2/NDF : 3953315.6/43

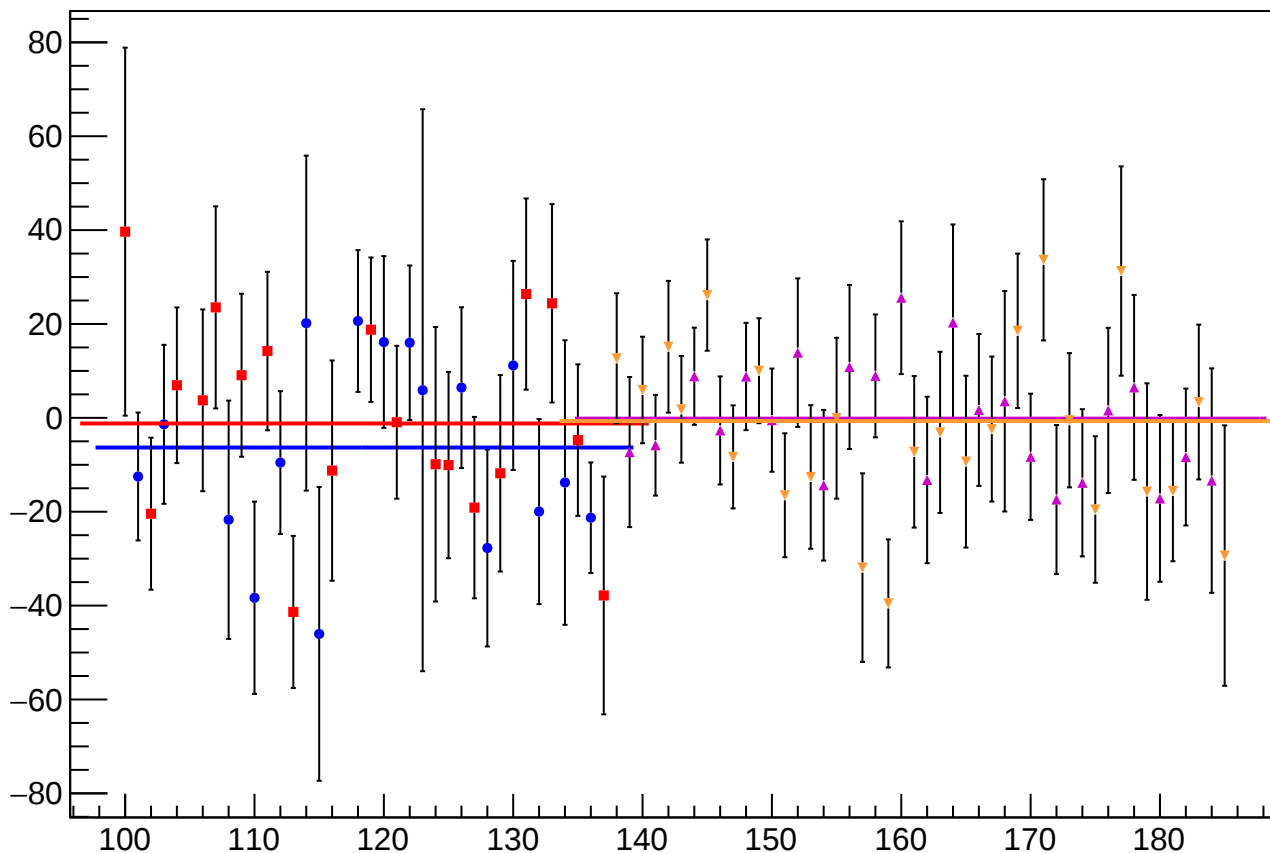
Left In: 5596.879+/-0.994

χ^2/NDF : 2089750.1/22

All: 5840.800+/-0.620

χ^2/NDF : 7700409.8/83

diff_bpm11X_mean vs Slug, Sign Corrected



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

Left Out: -0.683 $\pm$ 2.958 χ^2/NDF : 33.5/24

Right Out: -1.197 $\pm$ 4.382 χ^2/NDF : 20.2/18

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

Left: -0.437 $\pm$ 2.129 χ^2/NDF : 45.9/47

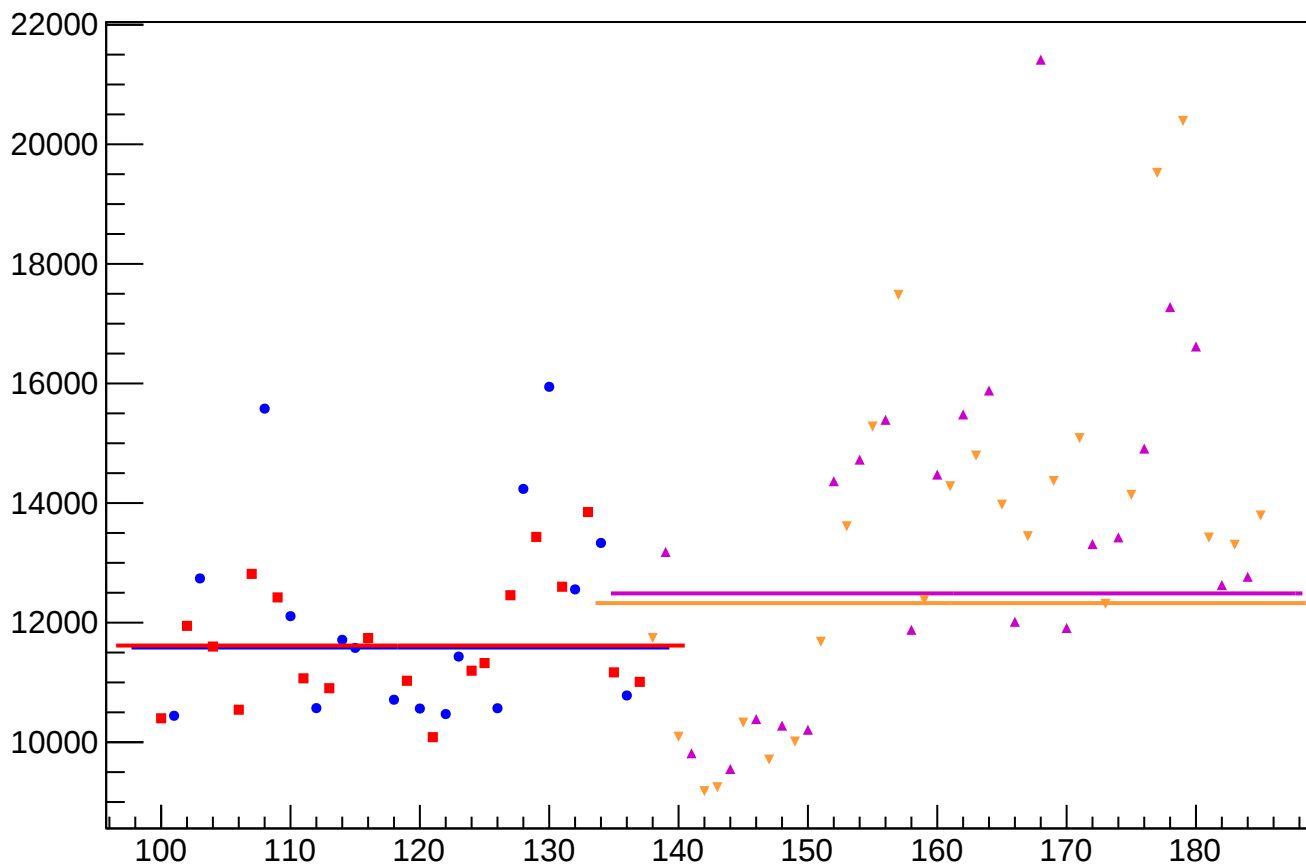
Right: -3.675 $\pm$ 3.148 χ^2/NDF : 37.1/35

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

Out: -0.844 $\pm$ 2.452 χ^2/NDF : 53.7/43

All: -1.453 $\pm$ 1.764 χ^2/NDF : 83.7/83

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11584.044+/-3.200

χ^2/NDF : 241550.8/16

Left: 12404.932+/-1.506 χ^2/NDF : 2834609.4/47

Right: 11600.972+/-2.226 χ^2/NDF : 337068.1/35

Left Out: 12326.902+/-2.092

χ^2/NDF : 1477236.3/24

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

Right Out: 11616.845+/-3.098

χ^2/NDF : 95463.1/18

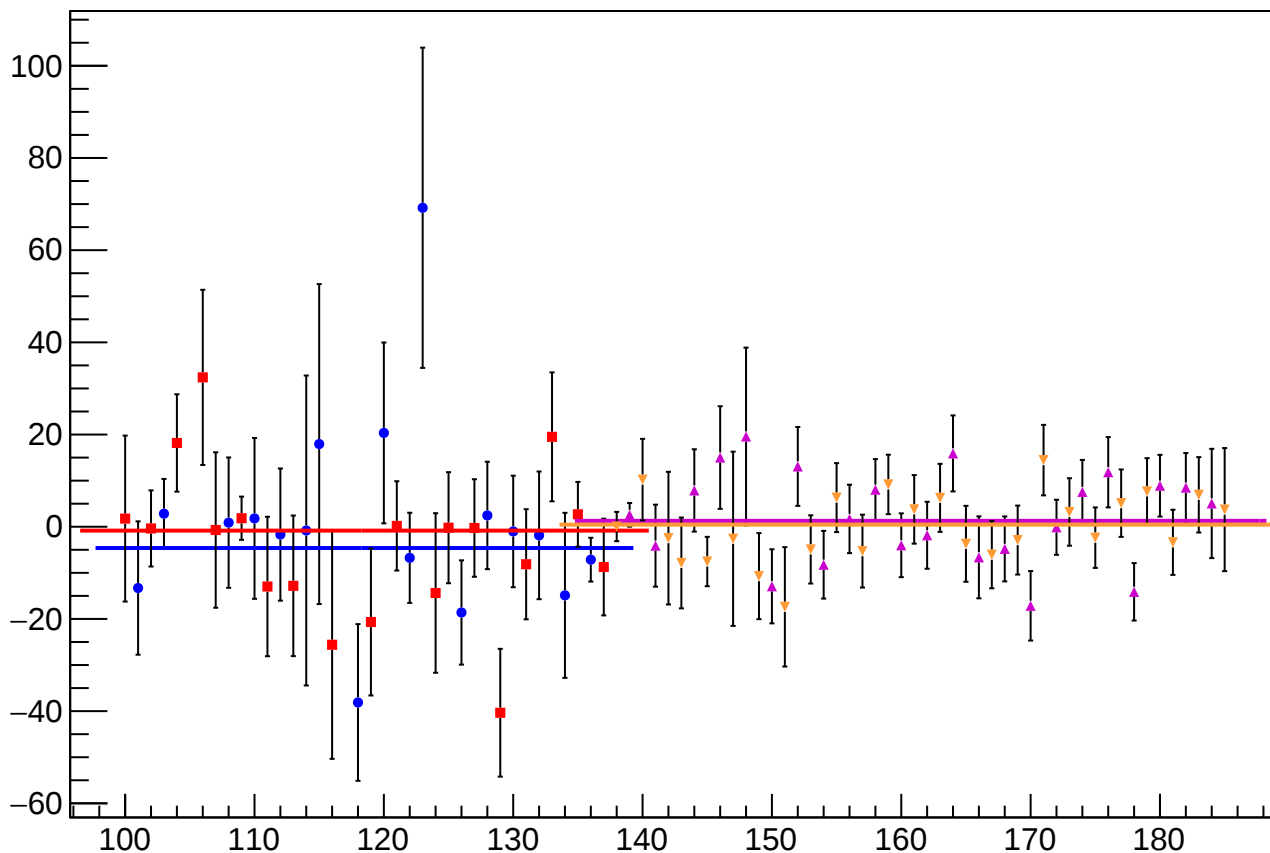
Out: 12104.594+/-1.734 χ^2/NDF : 1608776.0/43

Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12152.548+/-1.247 χ^2/NDF : 3261185.8/6

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: 0.453 ± 1.438 χ^2/NDF : 19.2/24

Right Out: -0.841 ± 2.431 χ^2/NDF : 22.5/18

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

Left: 0.881 ± 0.998 χ^2/NDF : 53.4/47

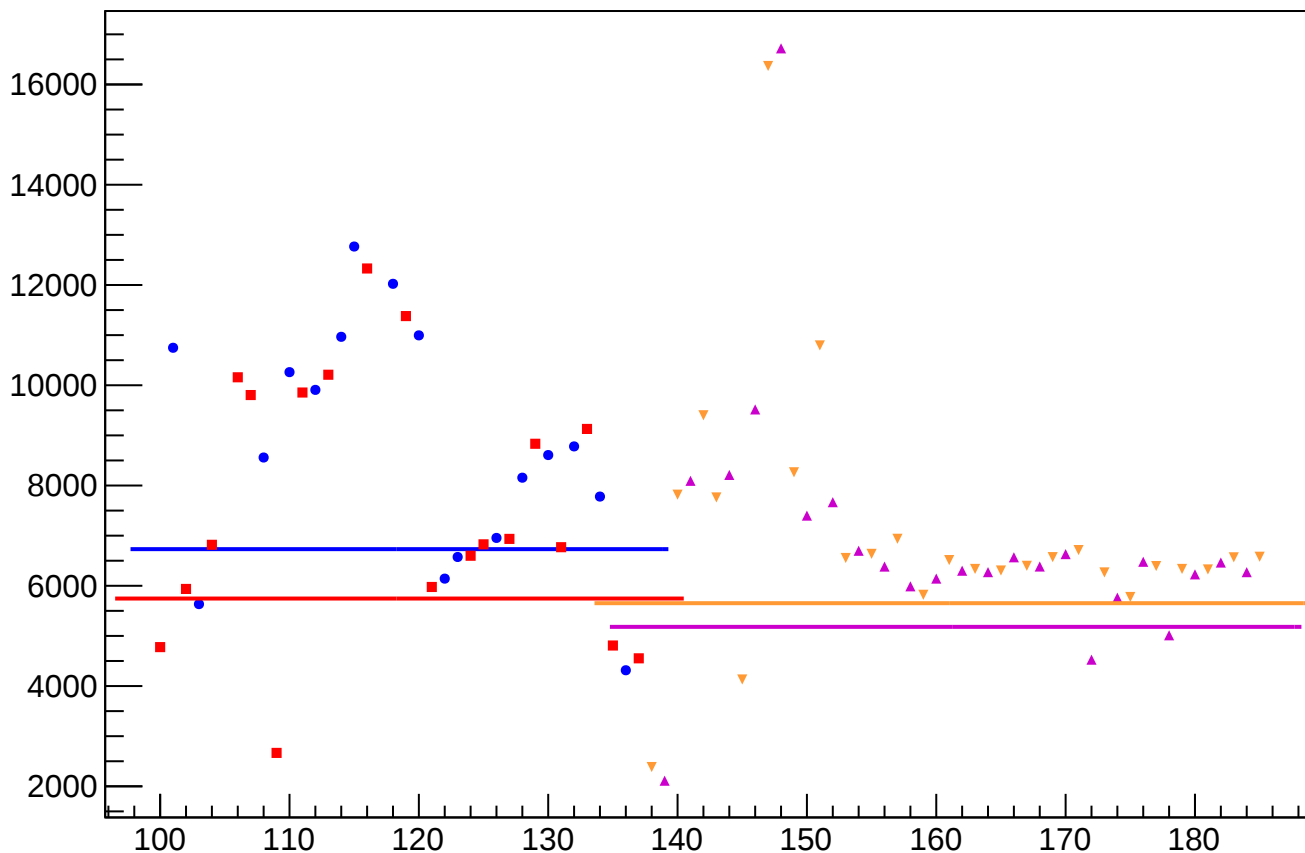
Right: -2.475 ± 1.830 χ^2/NDF : 38.4/35

In: 0.107 ± 1.240 χ^2/NDF : 52.4/39

Out: 0.118 ± 1.238 χ^2/NDF : 41.9/43

All: 0.112 ± 0.876 χ^2/NDF : 94.3/83

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.931+/-1.967 χ^2/NDF : 1444572.7/16

Left Out: 5652.919+/-1.017 χ^2/NDF : 4109930.8/24

Right Out: 5745.707+/-1.719 χ^2/NDF : 2164630.9/18

Left In: 5180.743+/-0.980 χ^2/NDF : 5350053.6/22

Left: 5408.102+/-0.706 χ^2/NDF : 9571796.5/47

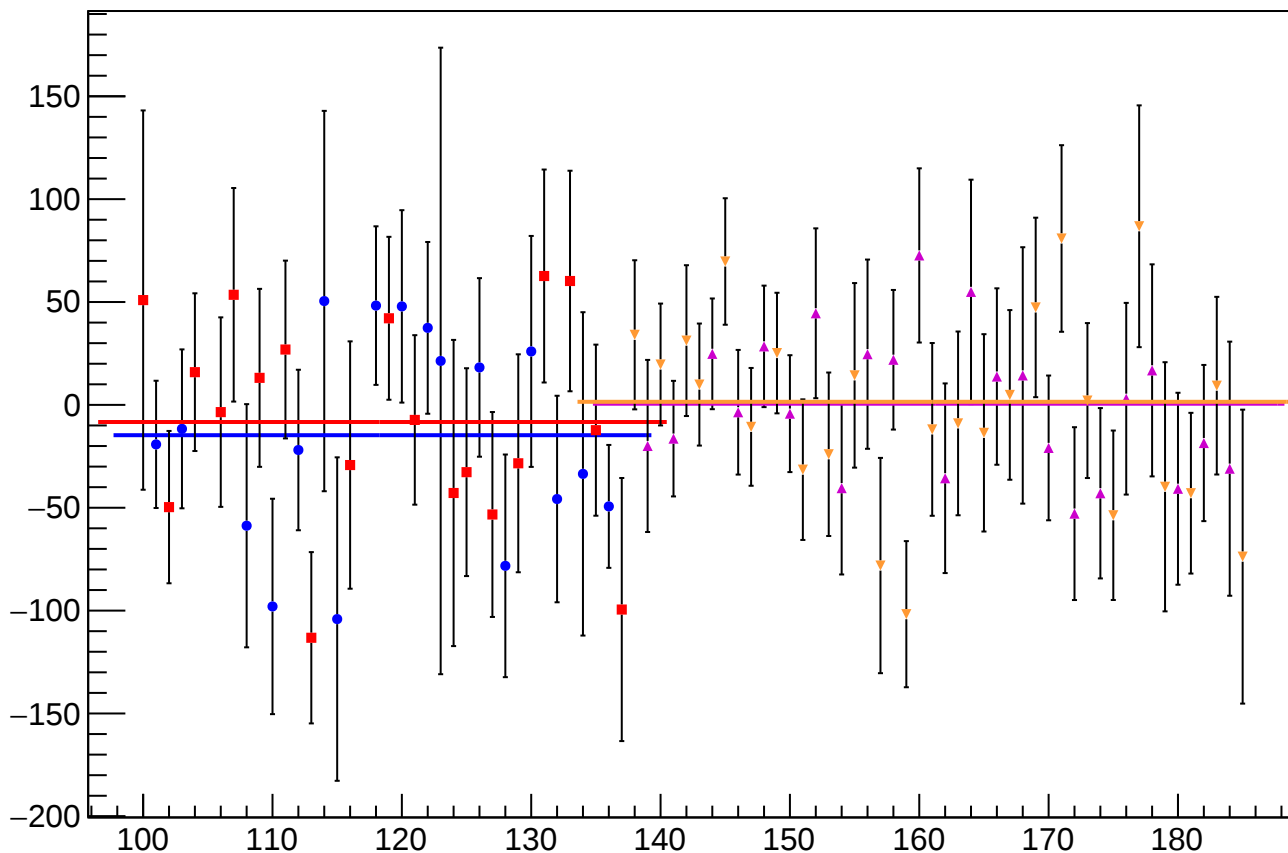
Right: 6172.245+/-1.294 χ^2/NDF : 3751459.2/35

In: 5488.931+/-0.877 χ^2/NDF : 7292217.7/39

Out: 5676.974+/-0.875 χ^2/NDF : 6276720.5/43

All: 5583.161+/-0.619 χ^2/NDF : 13591973.1/86

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 1.499 $\pm$ 7.734 χ^2/NDF : 31.1/24

Right Out: -8.323 $\pm$ 10.912 χ^2/NDF : 19.5/18

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

Left: 1.049 $\pm$ 5.565 χ^2/NDF : 45.4/47

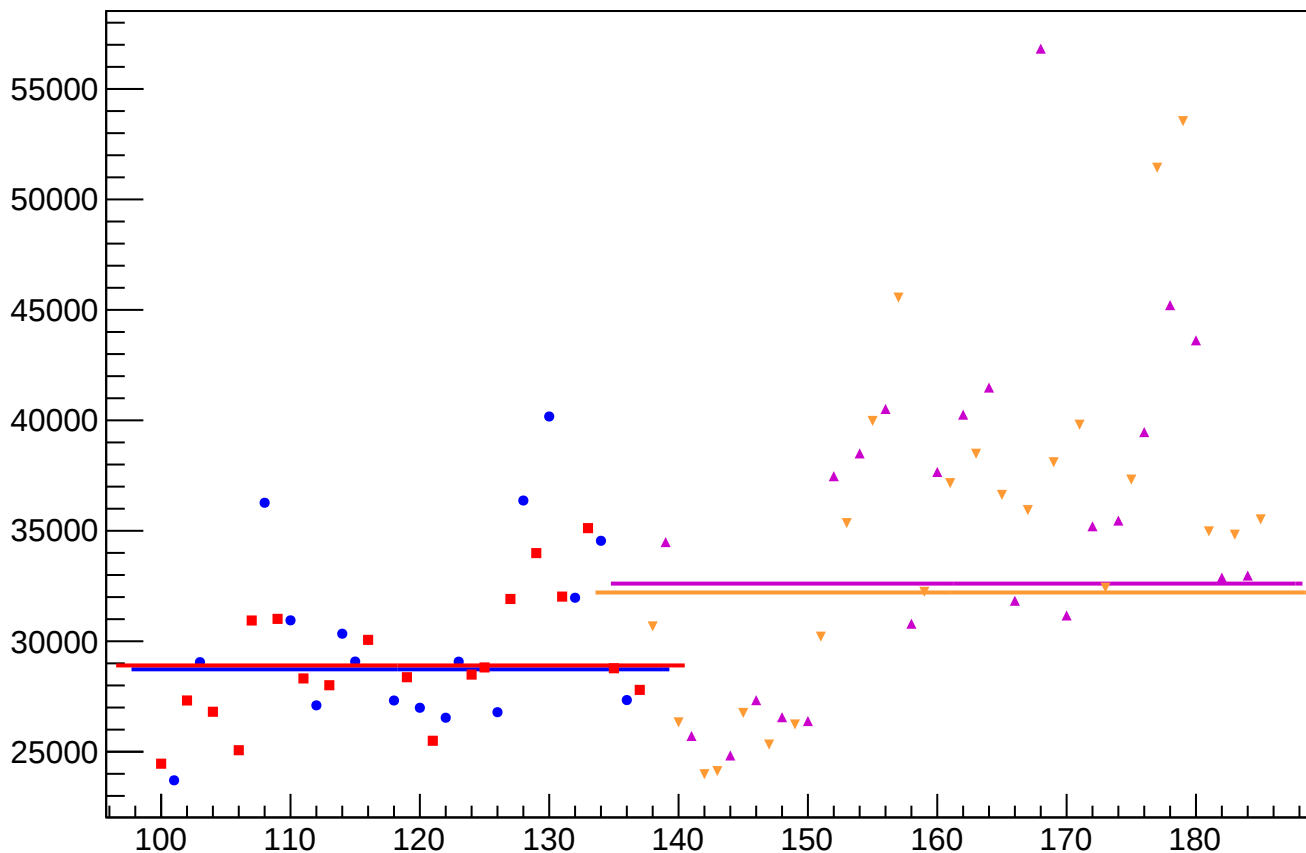
Right: -11.435 $\pm$ 7.828 χ^2/NDF : 34.9/35

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

Out: -1.785 $\pm$ 6.310 χ^2/NDF : 51.1/43

All: -3.143 $\pm$ 4.536 χ^2/NDF : 82.0/83

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28729.913+/-7.946

χ^2/NDF : 254816.0/16

Left Out: 32208.128+/-5.469

χ^2/NDF :1510893.2/24

Right Out: 28905.793+/-7.716

χ^2/NDF : 112668.4/18

Left In: 32610.108+/-5.667

χ^2/NDF :1398475.8/22

Left: 32401.970+/-3.935 χ^2/NDF : 2911974.1/47

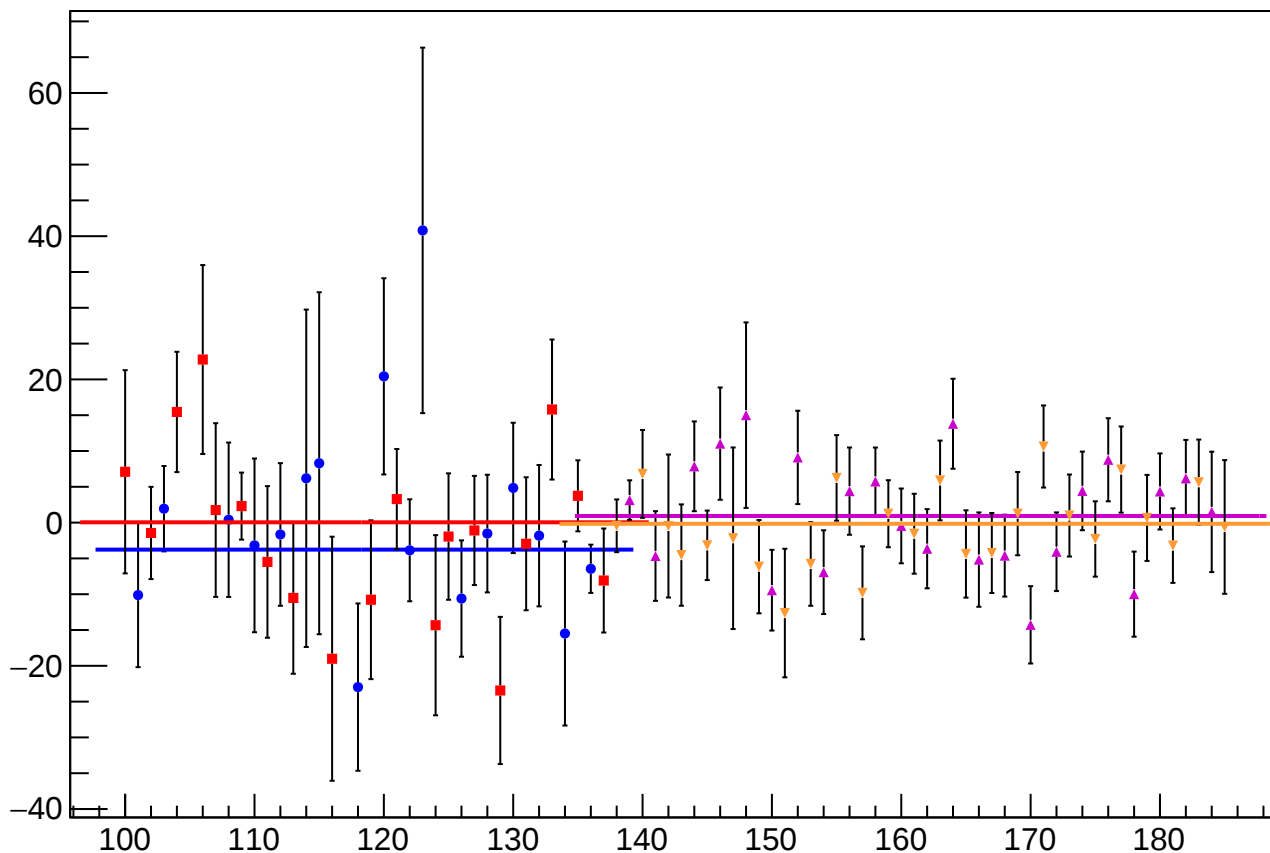
Right: 28820.430+/-5.536 χ^2/NDF : 367736.6/35

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

Out: 31103.892+/-4.462 χ^2/NDF :1745479.4/43

All: 31199.531+/-3.207 χ^2/NDF : 3557789.6/86

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.773 ± 2.010 $\chi^2/\text{NDF}: 14.0/16$

Left Out: -0.164 ± 1.176 $\chi^2/\text{NDF}: 18.2/24$

Right Out: 0.042 ± 1.894 $\chi^2/\text{NDF}: 21.7/18$

Left In: 0.925 ± 1.154 $\chi^2/\text{NDF}: 36.1/22$

Left: 0.391 ± 0.823 $\chi^2/\text{NDF}: 54.7/47$

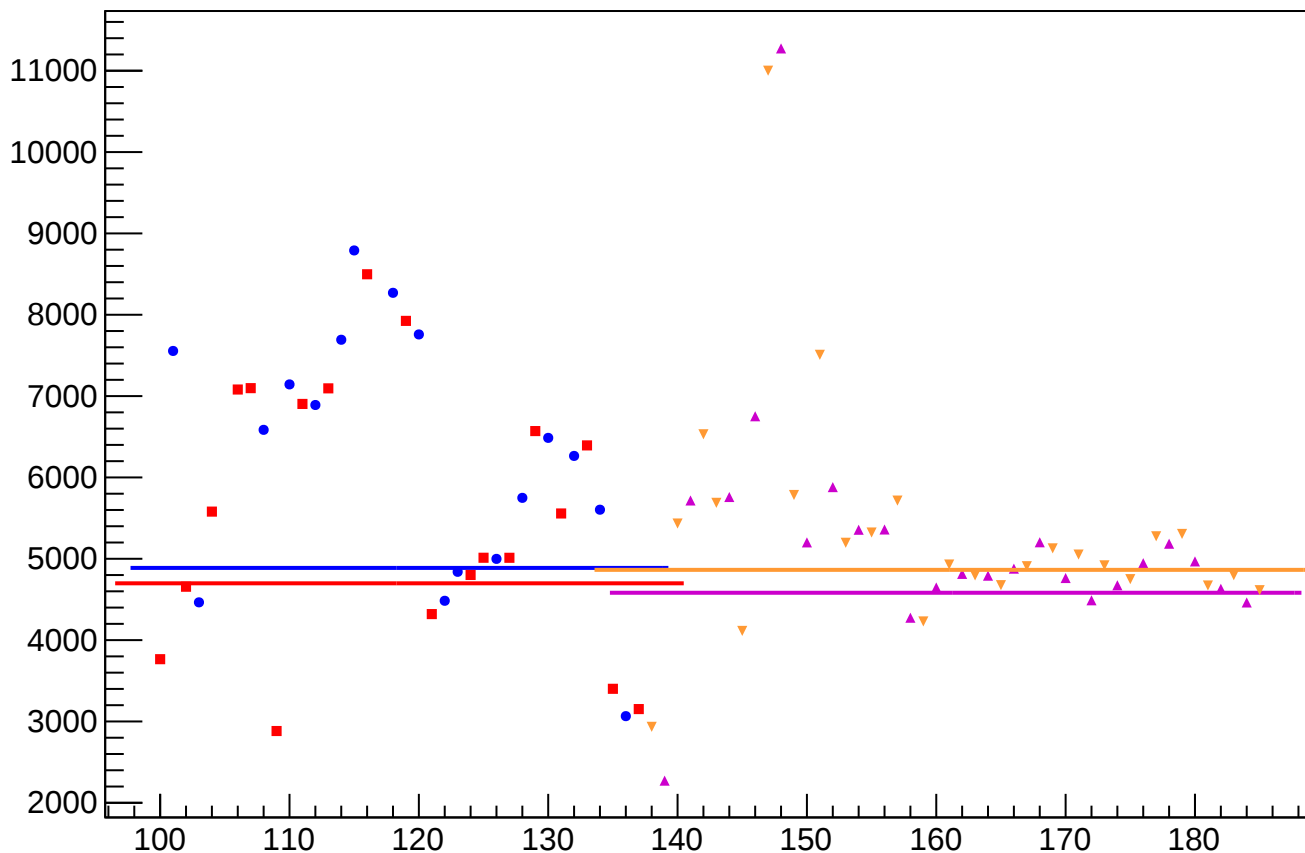
Right: -1.752 ± 1.378 $\chi^2/\text{NDF}: 37.6/35$

In: -0.239 ± 1.001 $\chi^2/\text{NDF}: 54.2/39$

Out: -0.107 ± 0.999 $\chi^2/\text{NDF}: 39.9/43$

All: -0.173 ± 0.707 $\chi^2/\text{NDF}: 94.1/83$

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4863.824 $\pm$ 0.831 χ^2/NDF : 1502587.4/24

Right Out: 4698.374 $\pm$ 1.339 χ^2/NDF : 1316063.8/18

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

Left: 4720.343 $\pm$ 0.582 χ^2/NDF : 4039730.4/47

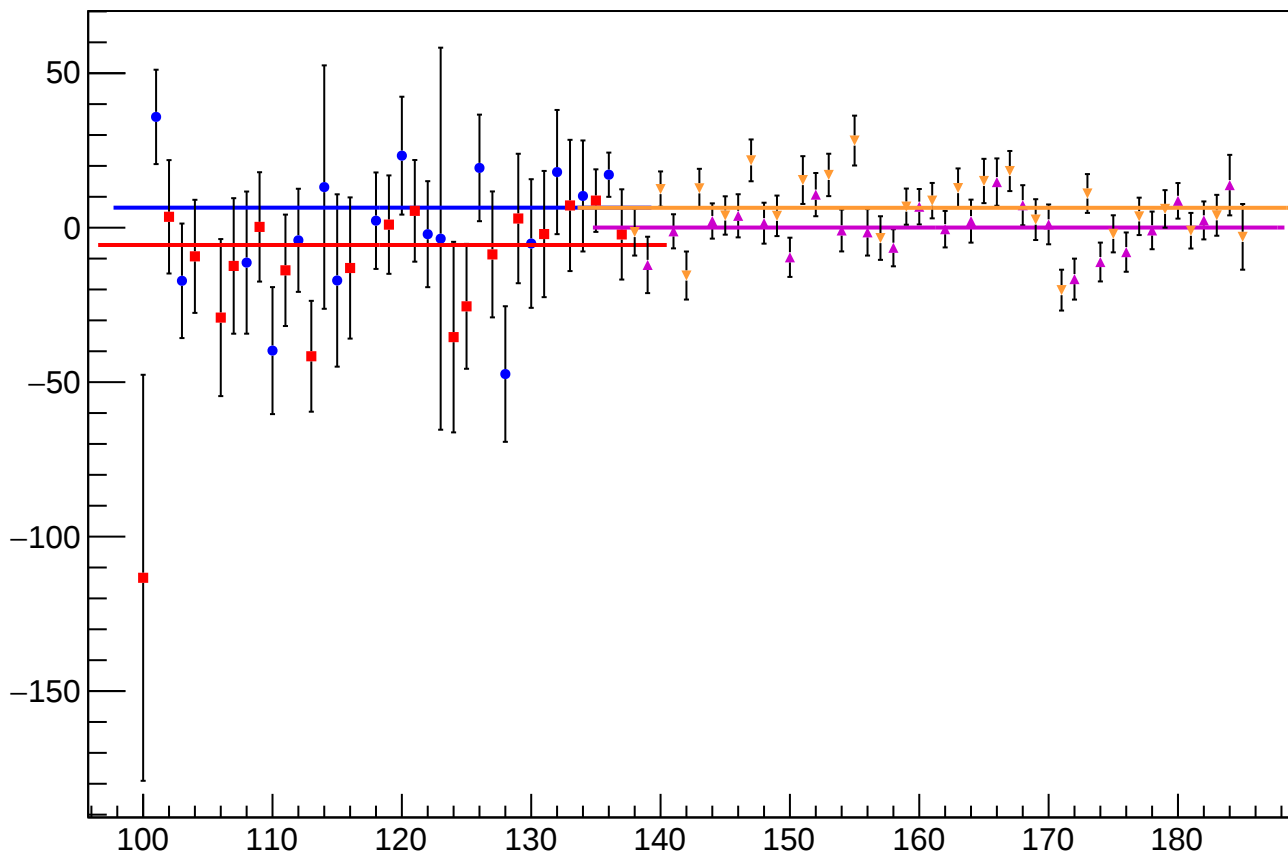
Right: 4787.445 $\pm$ 0.975 χ^2/NDF : 2734101.5/35

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

Out: 4817.803 $\pm$ 0.706 χ^2/NDF : 2829667.2/43

All: 4737.991 $\pm$ 0.500 χ^2/NDF : 6777324.6/83

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.482 ± 4.072 χ^2/NDF : 22.7/16

Left Out: 6.435 ± 1.317 χ^2/NDF : 57.4/24

Right Out: -5.601 ± 4.227 χ^2/NDF : 13.6/18

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

Left: 3.337 ± 0.945 χ^2/NDF : 98.9/47

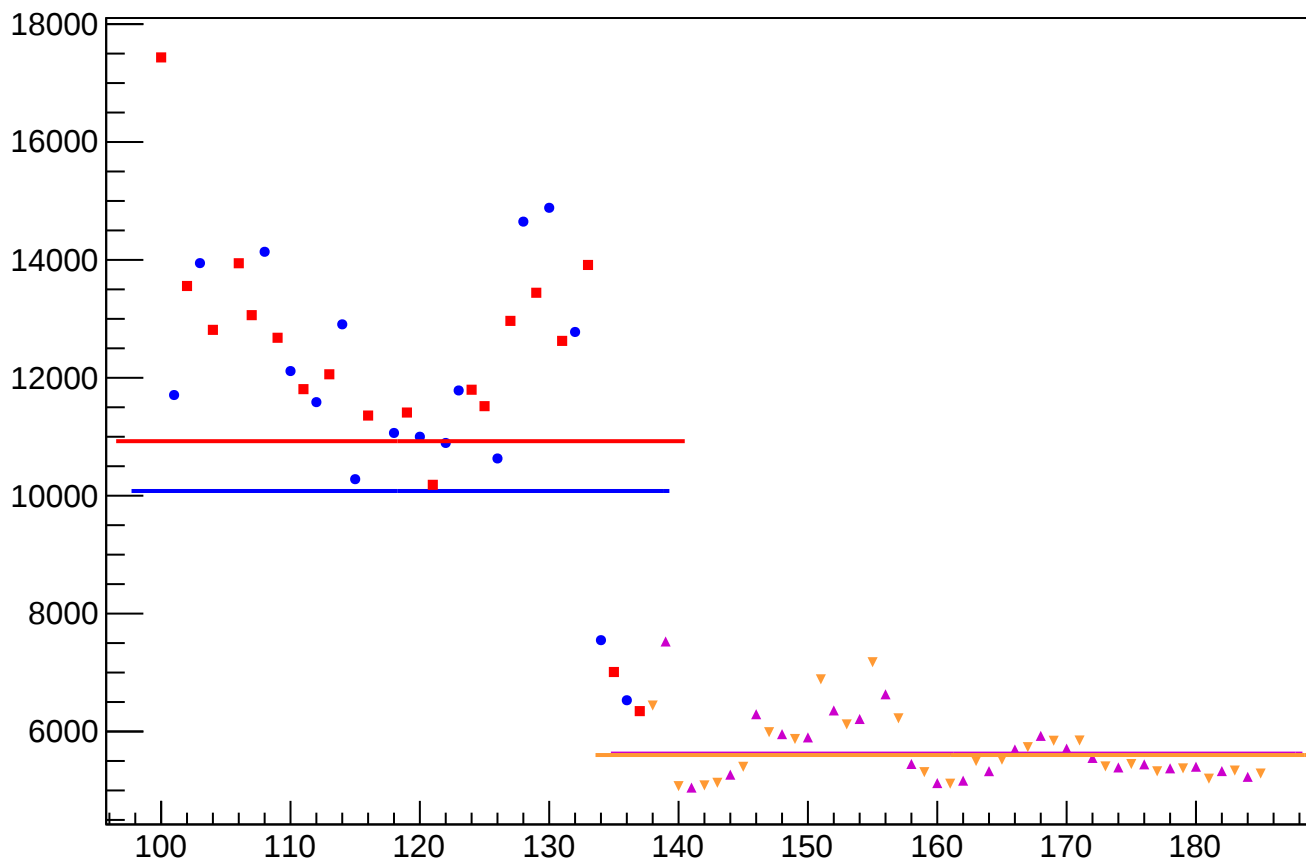
Right: 0.666 ± 2.933 χ^2/NDF : 40.5/35

In: 0.688 ± 1.288 χ^2/NDF : 55.0/39

Out: 5.370 ± 1.257 χ^2/NDF : 78.4/43

All: 3.085 ± 0.900 χ^2/NDF : 140.2/83

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5600.814 $\pm$ 0.931 χ^2 /NDF:282700.3/24

Right Out: 10924.946 $\pm$ 2.989 χ^2 /NDF: 769663.7/18

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

Left: 5612.618 $\pm$ 0.668 χ^2 /NDF: 555595.2/47

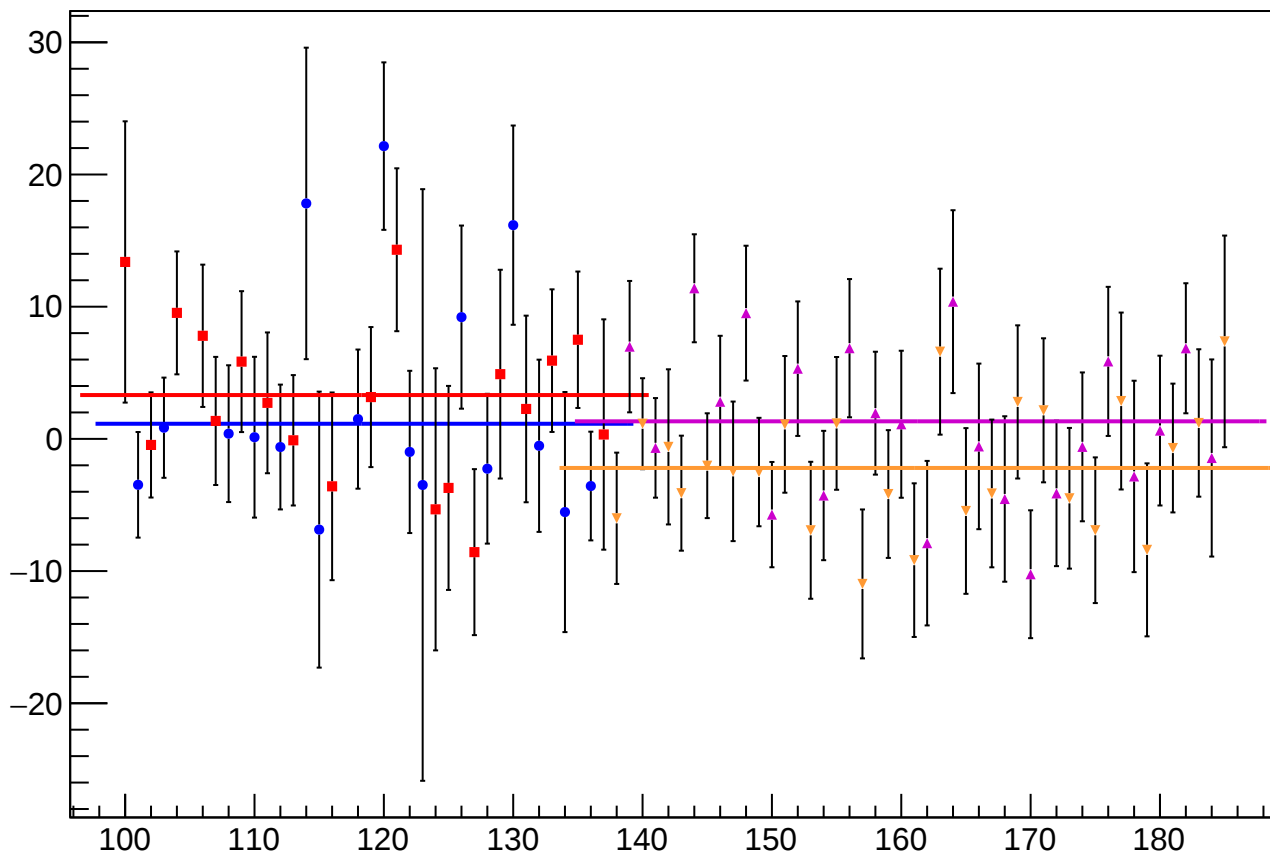
Right: 10486.688 $\pm$ 2.074 χ^2 /NDF: 1810531.7/35

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

Out: 6071.973 $\pm$ 0.889 χ^2 /NDF:3944583.3/43

All: 6071.420 $\pm$ 0.636 χ^2 /NDF: 7370577.5/83

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.144 $\pm$ 1.398 χ^2 /NDF: 22.9/16

Left Out: -2.199 $\pm$ 1.035 χ^2 /NDF:15.5/24

Right Out: 3.316 $\pm$ 1.335 χ^2 /NDF: 15.4/18

Left In: 1.328 $\pm$ 1.082 χ^2 /NDF:30.6/22

Left: -0.515 $\pm$ 0.748 χ^2 /NDF: 51.7/47

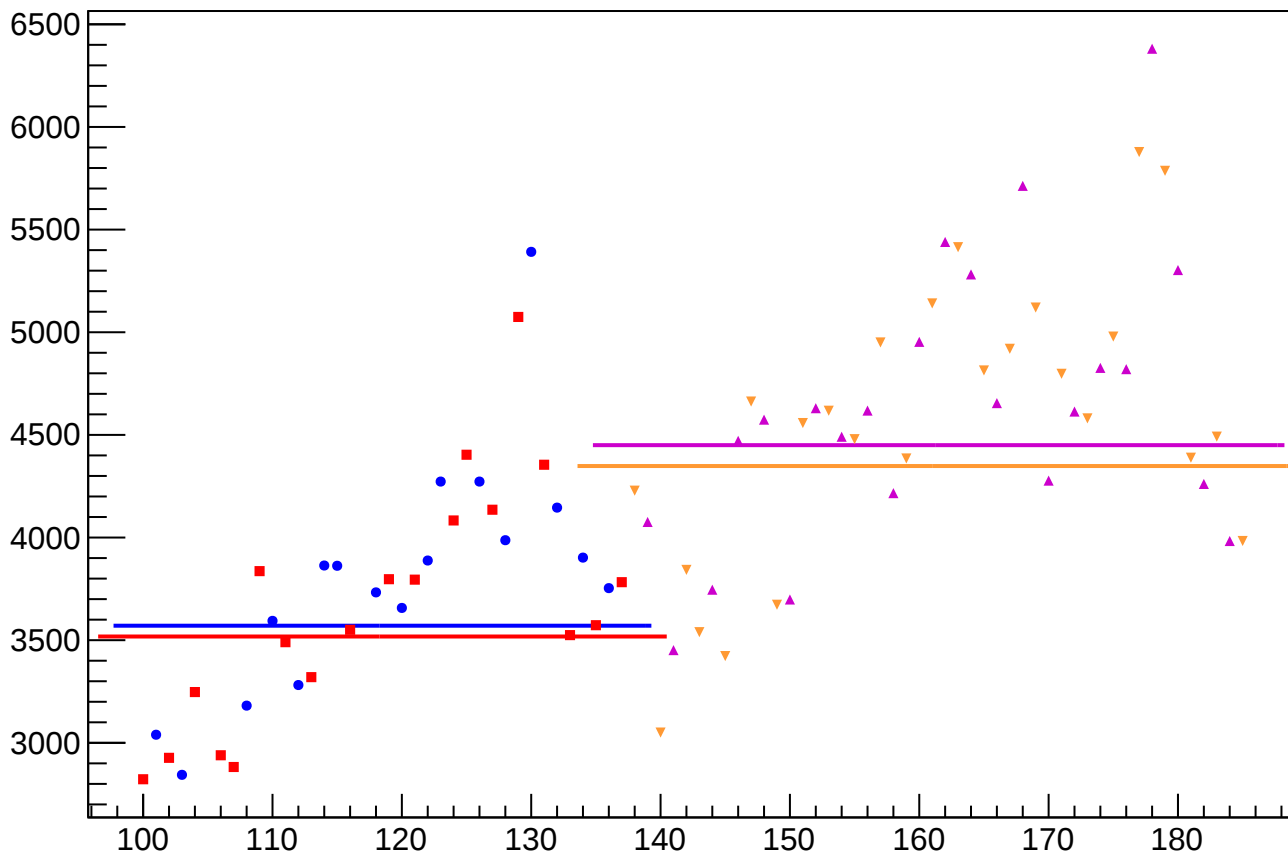
Right: 2.280 $\pm$ 0.965 χ^2 /NDF: 39.6/35

In: 1.259 $\pm$ 0.856 χ^2 /NDF:53.5/39

Out: -0.130 $\pm$ 0.818 χ^2 /NDF:41.6/43

All: 0.533 $\pm$ 0.591 χ^2 /NDF: 96.5/83

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4348.331 $\pm$ 0.732 χ^2 /NDF: 985778.6/24

Right Out: 3517.953 $\pm$ 0.944 χ^2 /NDF: 296177.1/18

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

Left: 4396.895 $\pm$ 0.529 χ^2 /NDF: 1688233.7/47

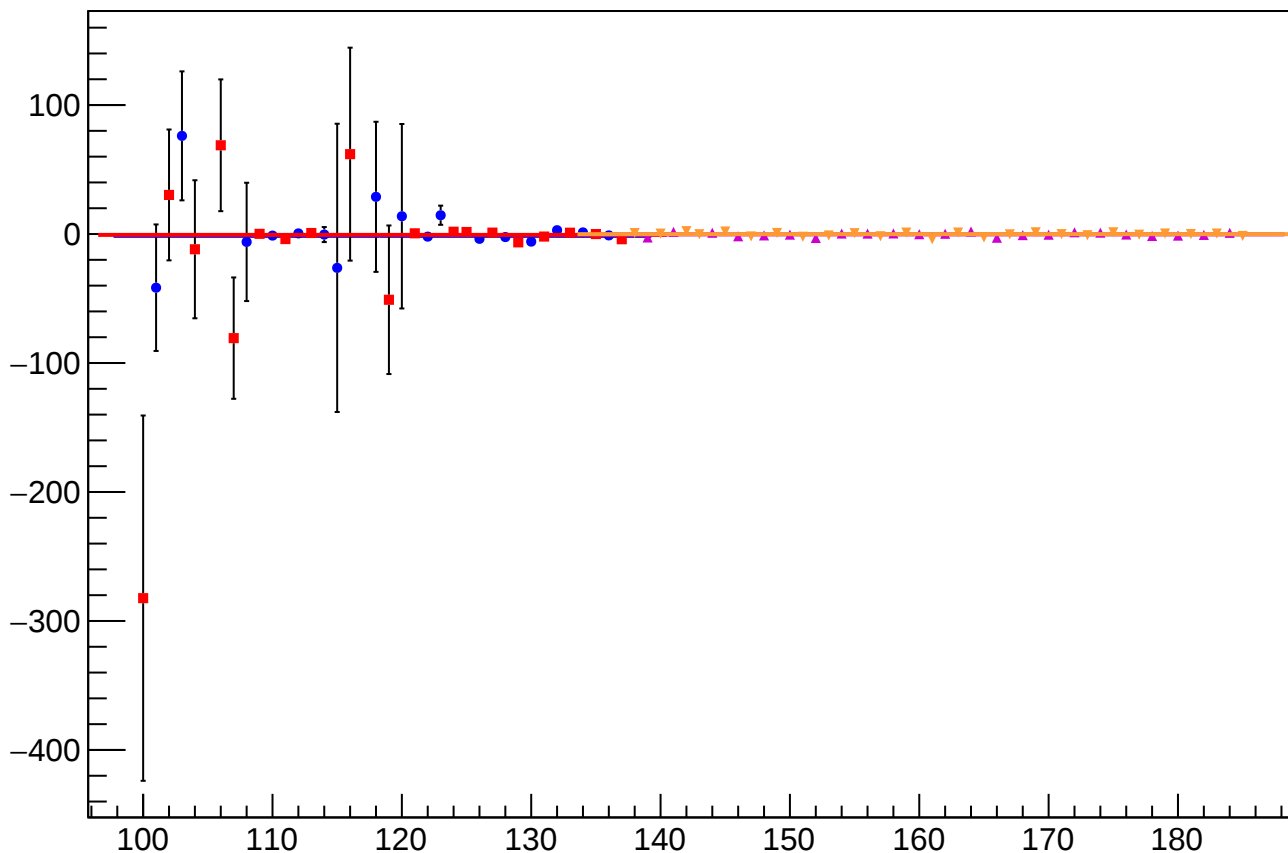
Right: 3543.048 $\pm$ 0.683 χ^2 /NDF: 608059.5/35

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

Out: 4036.808 $\pm$ 0.578 χ^2 /NDF: 1765256.1/43

All: 4076.745 $\pm$ 0.418 χ^2 /NDF: 3273998.4/83

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.099 ± 0.250 χ^2/NDF : 34.3/24

Right Out: -0.664 ± 0.713 χ^2/NDF : 21.5/18

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

Left: -0.177 ± 0.179 χ^2/NDF : 61.7/47

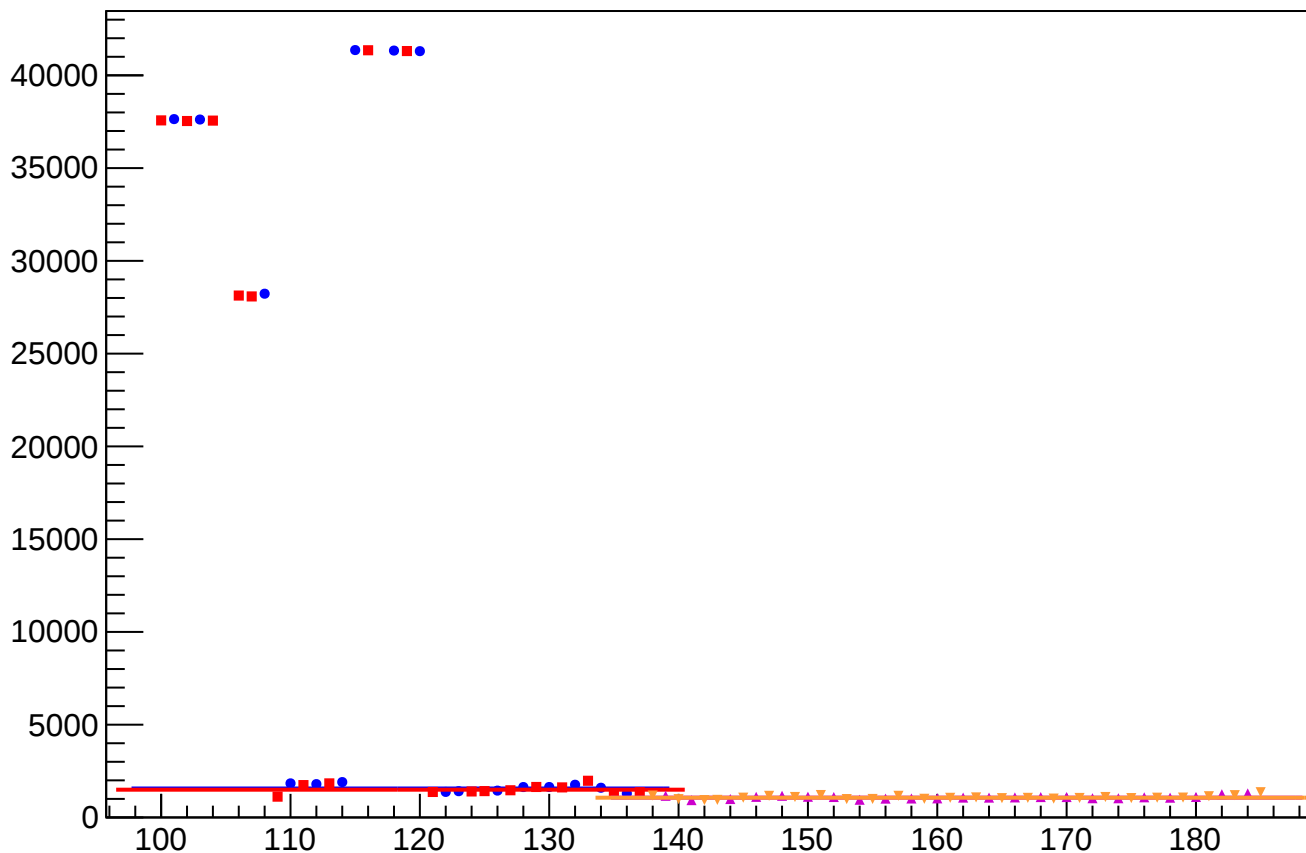
Right: -1.014 ± 0.517 χ^2/NDF : 38.7/35

In: -0.379 ± 0.243 χ^2/NDF : 46.0/39

Out: -0.161 ± 0.236 χ^2/NDF : 56.3/43

All: -0.267 ± 0.169 χ^2/NDF : 102.8/83

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1560.531 ± 0.531 $\chi^2/\text{NDF}: 4753218.6/16$

Left Out: 1065.086 ± 0.177 $\chi^2/\text{NDF}: 185897.5/24$

Right Out: 1496.346 ± 0.504 $\chi^2/\text{NDF}: 4893466.6/18$

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

Left: 1065.654 ± 0.127 $\chi^2/\text{NDF}: 350150.9/47$

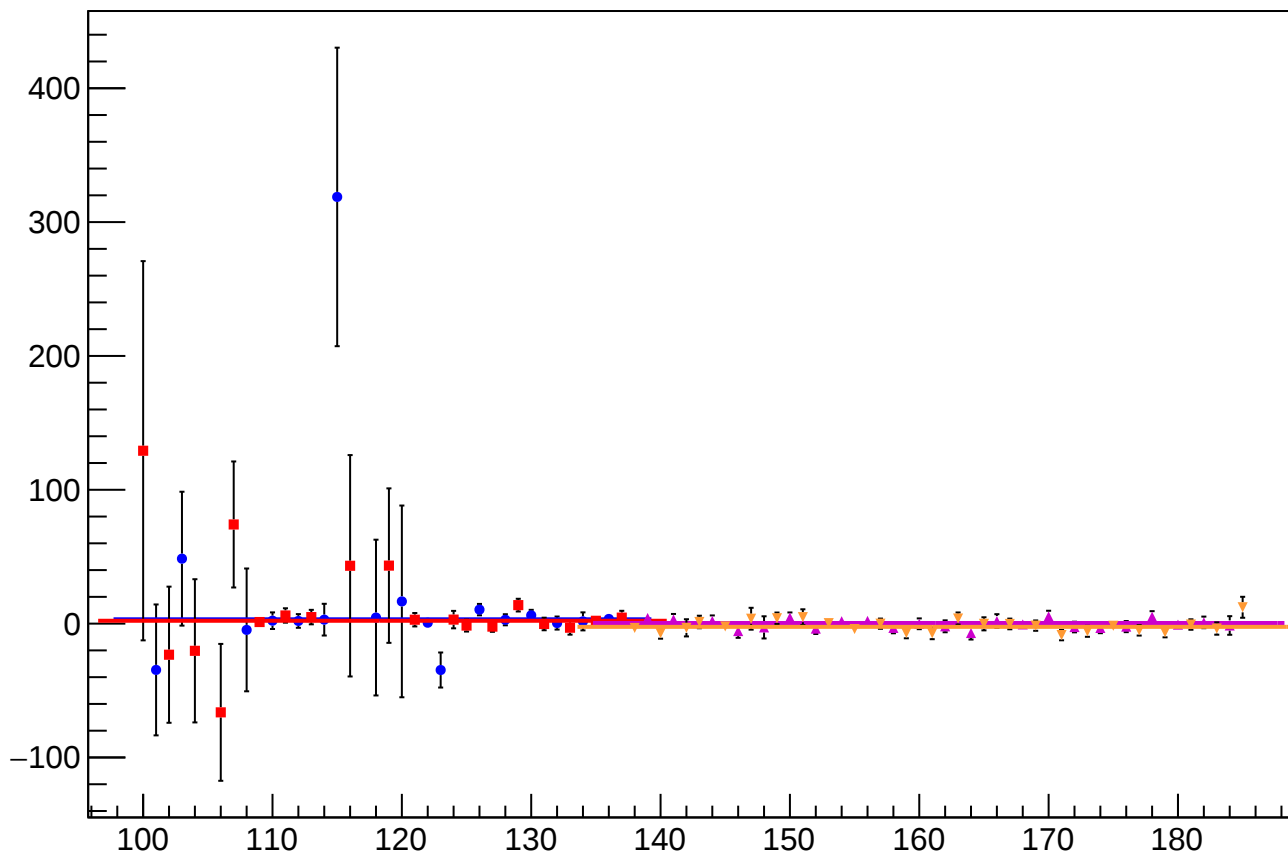
Right: 1526.792 ± 0.366 $\chi^2/\text{NDF}: 9654372.3/35$

In: 1118.105 ± 0.172 $\chi^2/\text{NDF}: 5693710.6/39$

Out: 1112.256 ± 0.167 $\chi^2/\text{NDF}: 5730933.6/43$

All: 1115.092 ± 0.120 $\chi^2/\text{NDF}: 11425240.7/8$

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.232 $\pm$ 1.328 χ^2/NDF : 22.2/16

Left Out: -2.410 $\pm$ 0.812 χ^2/NDF : 21.0/24

Right Out: 2.138 $\pm$ 1.239 χ^2/NDF : 16.5/18

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

Left: -1.024 $\pm$ 0.585 χ^2/NDF : 42.5/47

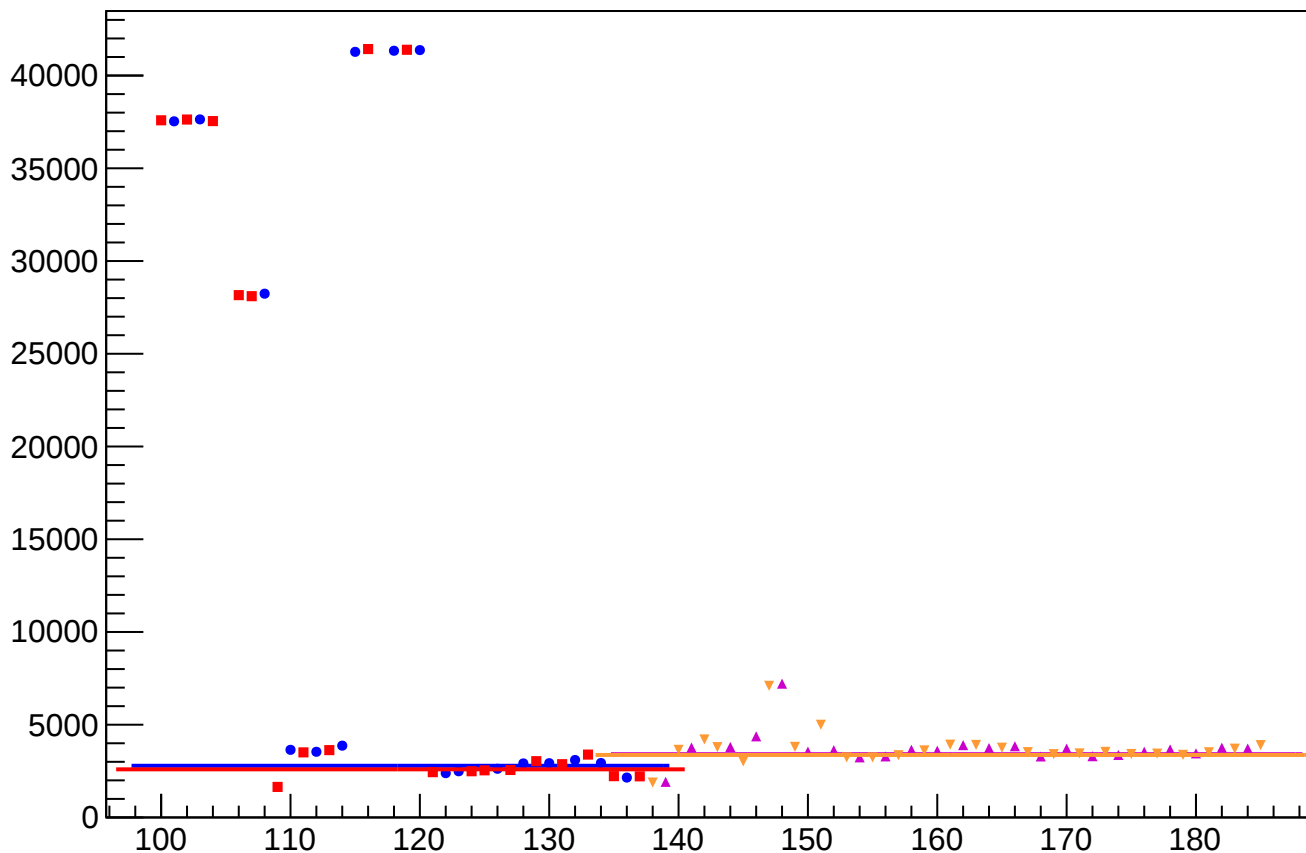
Right: 2.648 $\pm$ 0.906 χ^2/NDF : 39.1/35

In: 1.262 $\pm$ 0.712 χ^2/NDF : 40.8/39

Out: -1.043 $\pm$ 0.679 χ^2/NDF : 47.0/43

All: 0.056 $\pm$ 0.491 χ^2/NDF : 93.2/83

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2786.135+/-0.939 χ^2/NDF : 4576694.3/16

Left Out: 3370.229+/-0.574 χ^2/NDF : 1652207.6/24

Right Out: 2593.843+/-0.876 χ^2/NDF : 4848397.1/18

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

Left: 3390.311+/-0.414 χ^2/NDF : 3089268.2/47

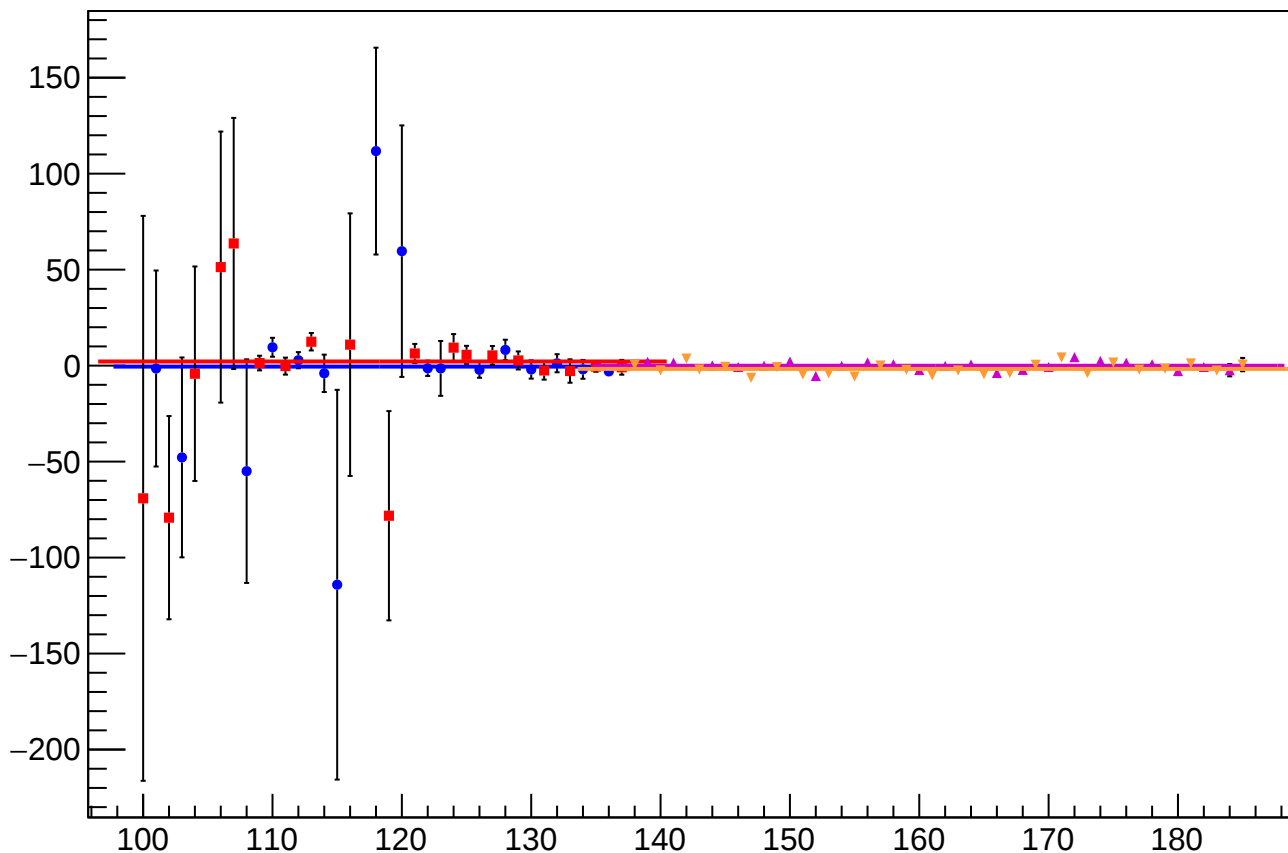
Right: 2683.369+/-0.641 χ^2/NDF : 9447510.4/35

In: 3232.179+/-0.503 χ^2/NDF : 6327890.6/39

Out: 3136.844+/-0.480 χ^2/NDF : 7049619.7/43

All: 3182.311+/-0.347 χ^2/NDF : 13396288.3/86

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.715 ± 0.390 χ^2/NDF : 45.7/24

Right Out: 2.152 ± 1.250 χ^2/NDF : 17.6/18

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

Left: -0.917 ± 0.279 χ^2/NDF : 82.6/47

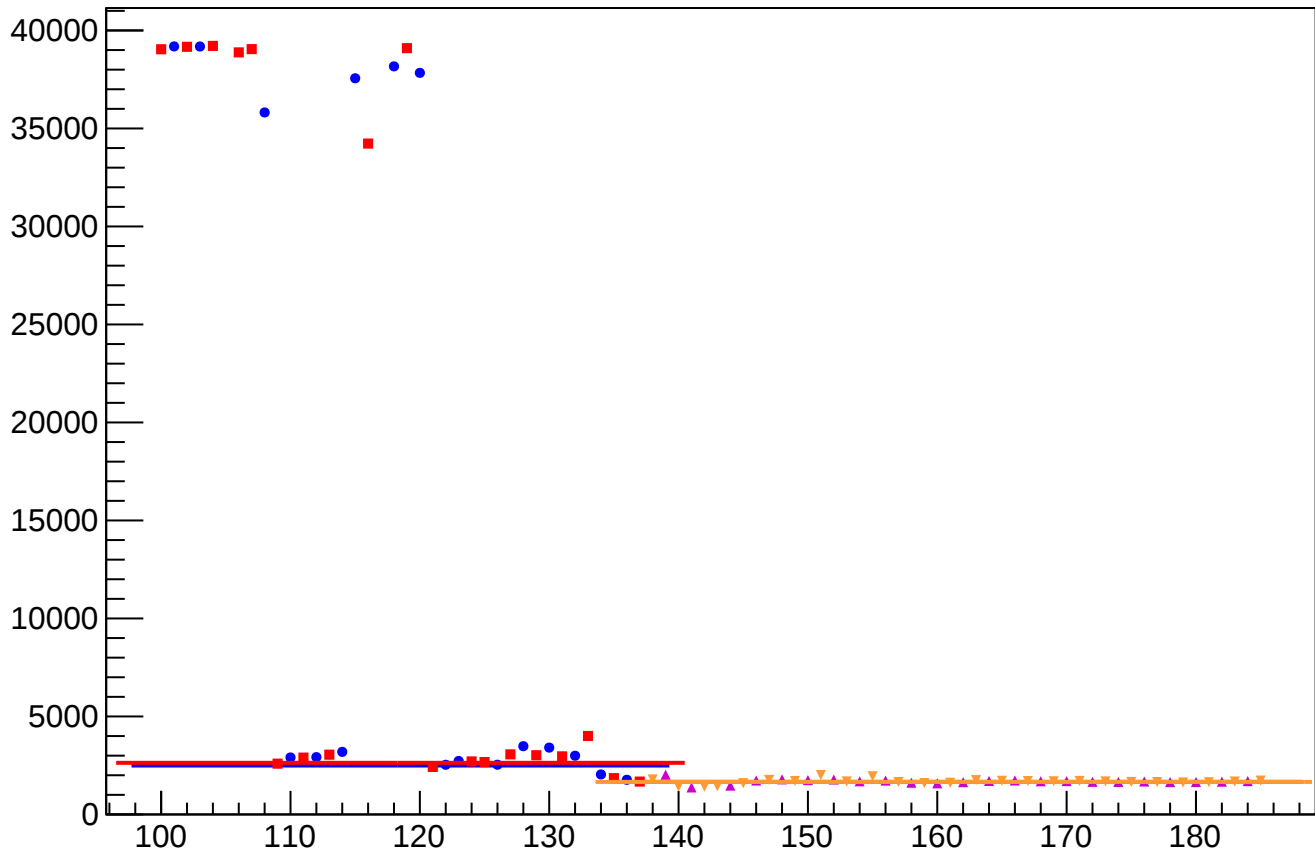
Right: 0.791 ± 0.874 χ^2/NDF : 37.9/35

In: -0.114 ± 0.381 χ^2/NDF : 46.3/39

Out: -1.373 ± 0.372 χ^2/NDF : 72.0/43

All: -0.759 ± 0.266 χ^2/NDF : 123.9/83

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2496.856 $\pm$ 0.864 χ^2 /NDF: 4887806.1/16

Left Out: 1659.816 $\pm$ 0.276 χ^2 /NDF: 216509.8/24

Right Out: 2634.601 $\pm$ 0.884 χ^2 /NDF: 4861733.2/18

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

Left: 1661.664 $\pm$ 0.198 χ^2 /NDF: 395460.5/47

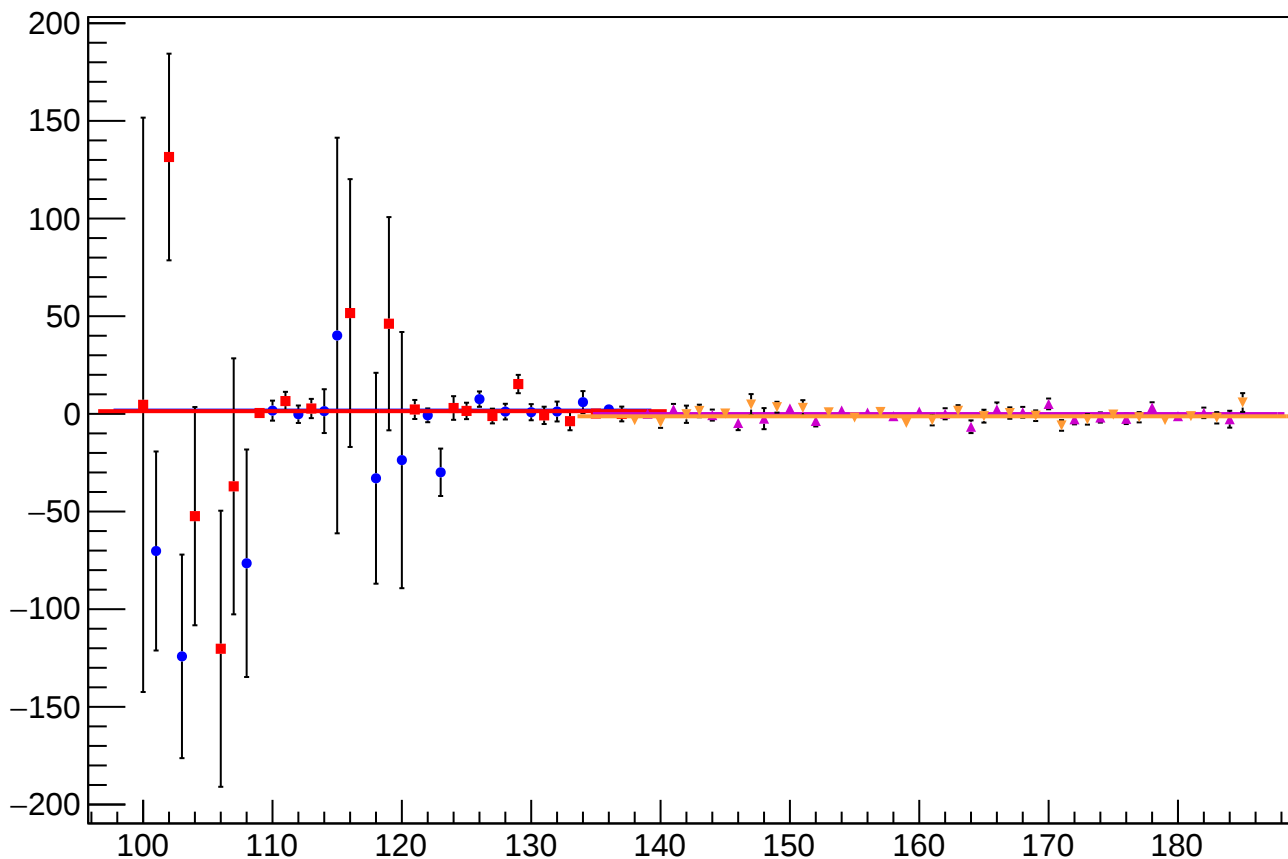
Right: 2564.162 $\pm$ 0.618 χ^2 /NDF: 9761958.6/35

In: 1744.655 $\pm$ 0.269 χ^2 /NDF: 5906260.3/39

Out: 1746.171 $\pm$ 0.263 χ^2 /NDF: 6186741.9/43

All: 1745.431 $\pm$ 0.188 χ^2 /NDF: 12093018.4/80

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.251 ± 0.536 $\chi^2/\text{NDF}: 21.3/24$

Right Out: 1.380 ± 1.065 $\chi^2/\text{NDF}: 24.1/18$

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

Left: -0.680 ± 0.381 $\chi^2/\text{NDF}: 42.9/47$

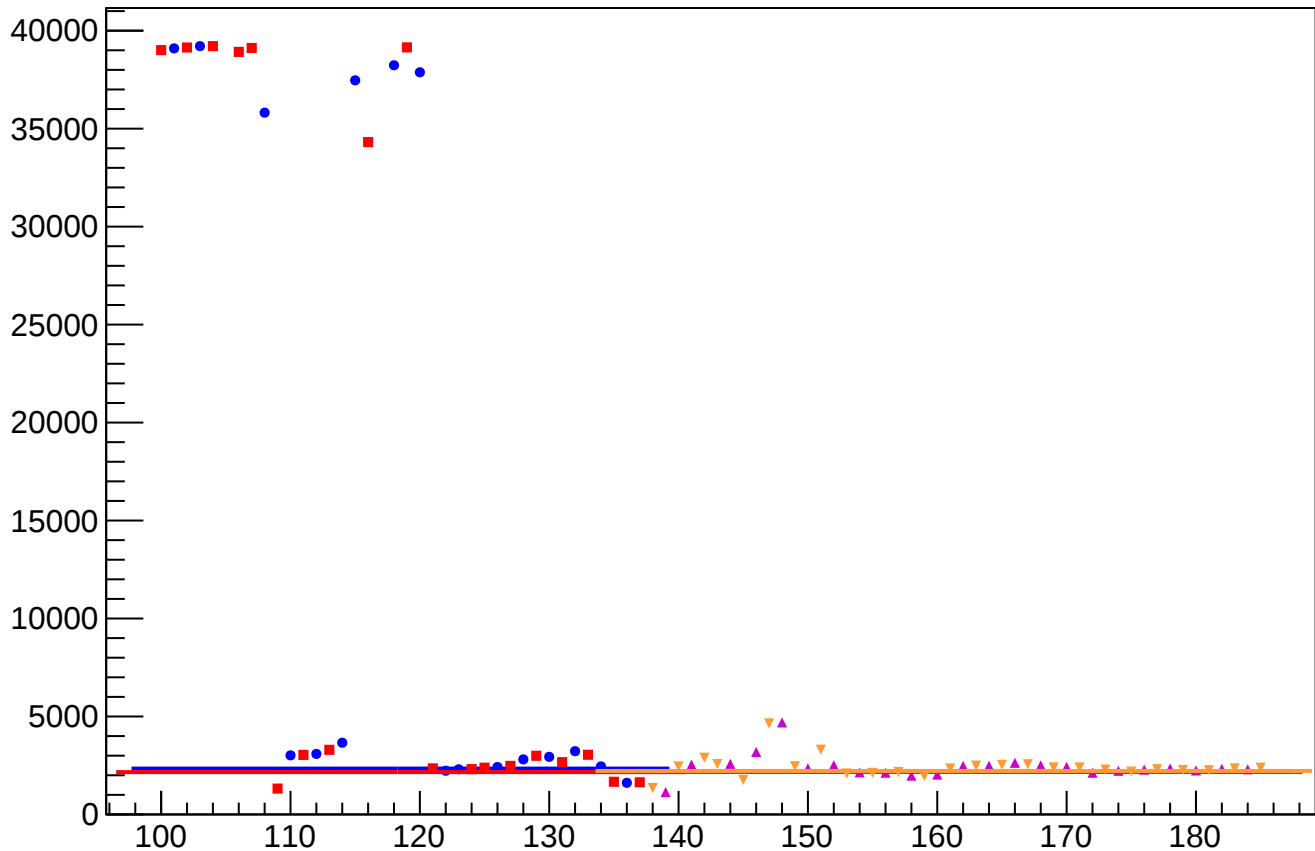
Right: 1.515 ± 0.780 $\chi^2/\text{NDF}: 44.9/35$

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

Out: -0.719 ± 0.479 $\chi^2/\text{NDF}: 50.2/43$

All: -0.258 ± 0.342 $\chi^2/\text{NDF}: 94.1/83$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2220.315+/-0.379 χ^2/NDF : 1416179.5/24

Right Out: 2161.211+/-0.753 χ^2/NDF : 5301782.5/18

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

Left: 2195.112+/-0.269 χ^2/NDF : 3399965.4/47

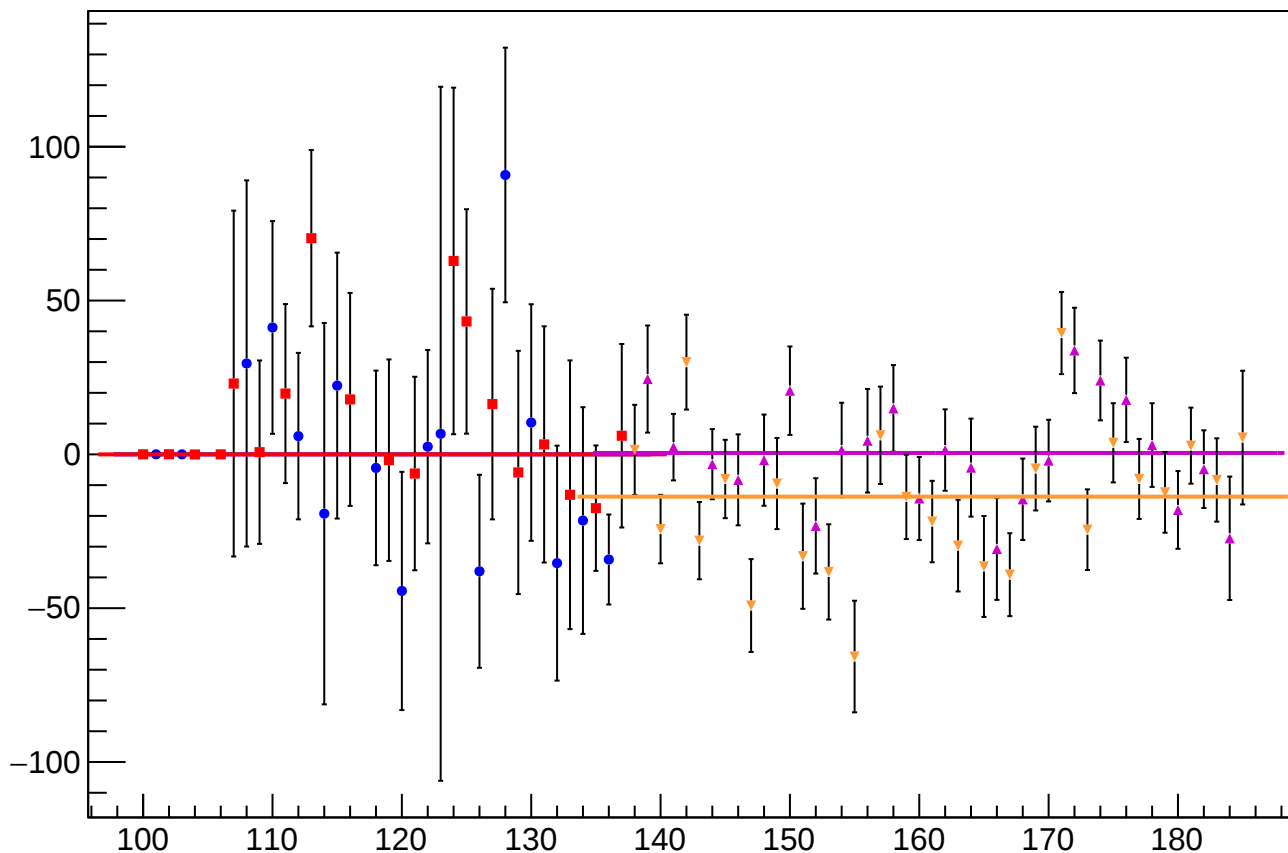
Right: 2244.647+/-0.552 χ^2/NDF : 10334729.3/35

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

Out: 2208.367+/-0.339 χ^2/NDF : 6722872.7/43

All: 2204.645+/-0.242 χ^2/NDF : 13741202.8/86

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 16.6/16

Left Out: -13.738 $\pm$ 2.812 χ^2 /NDF: 59.4/24

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 15.5/18

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

Left: -6.900 $\pm$ 2.024 χ^2 /NDF: 100.7/47

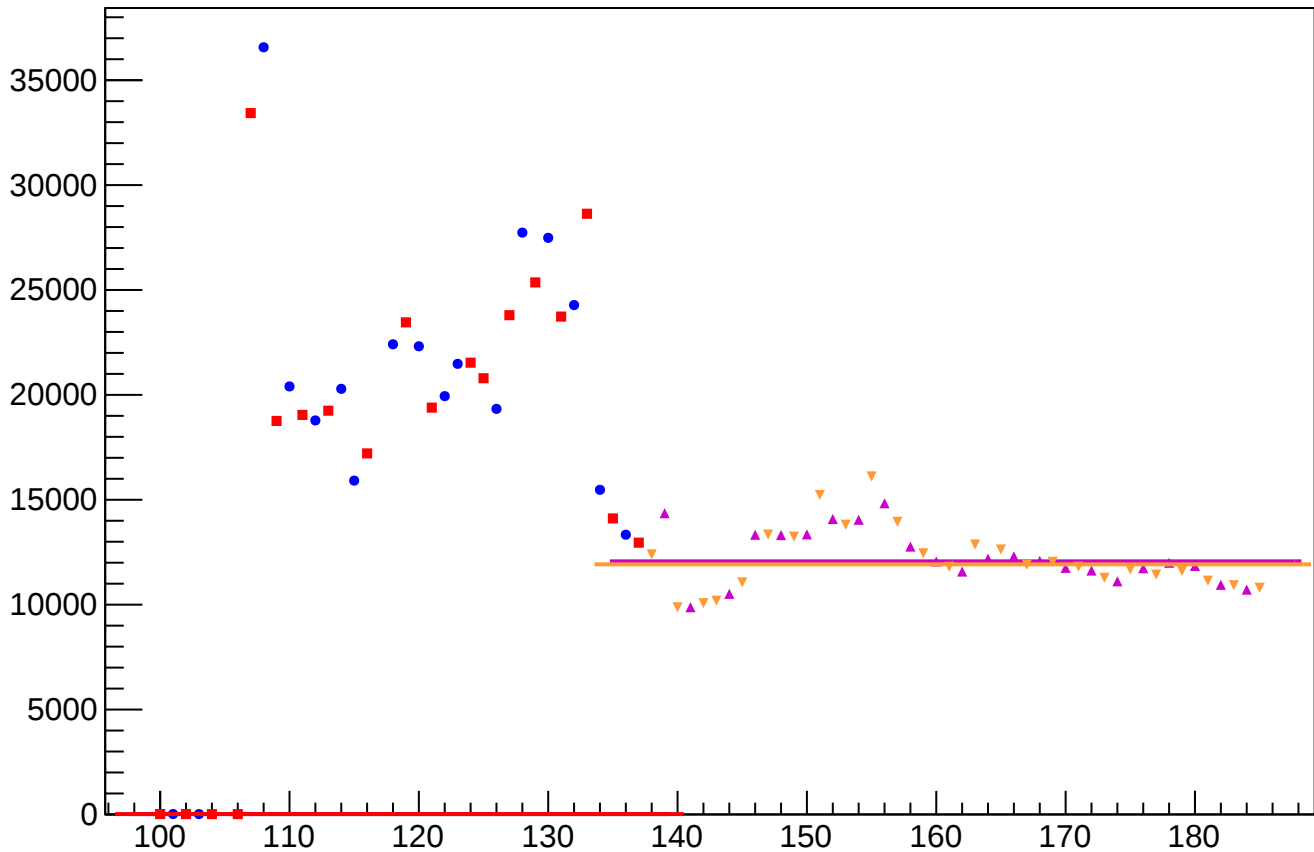
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 32.6/35

In: 0.013 $\pm$ 0.017 χ^2 /NDF: 45.6/39

Out: -0.004 $\pm$ 0.016 χ^2 /NDF: 98.8/43

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 144.9/83

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 11921.725+/-1.988 χ^2/NDF : 472371.7/24

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: 11990.619+/-1.431 χ^2/NDF : 843317.3/47

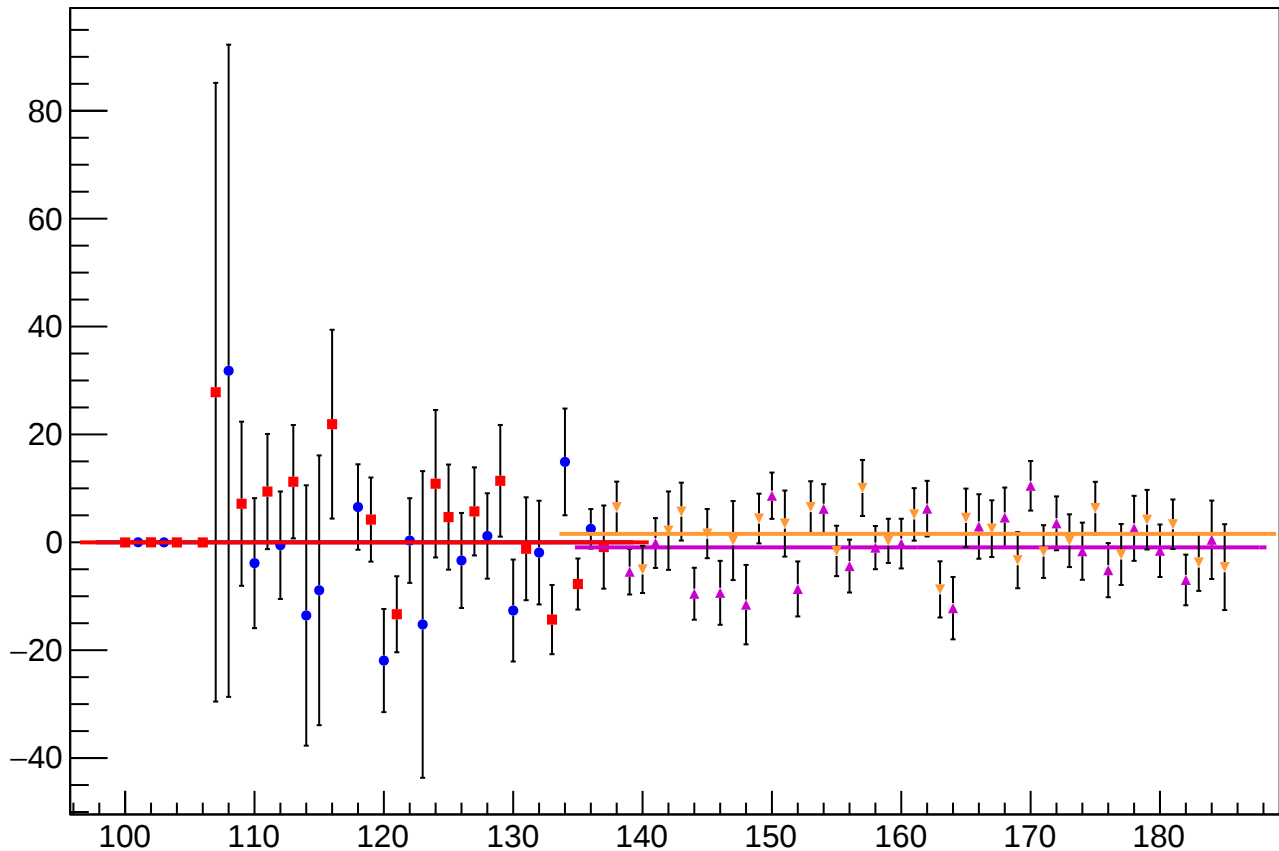
Right: 18.464+/-0.008 χ^2/NDF : 22005567.3/35

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

Out: 18.700+/-0.011 χ^2/NDF : 47383137.4/43

All: 18.870+/-0.008 χ^2/NDF : 92807714.5/83

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2/NDF : 12.9/16

Left Out: 1.567 $\pm$ 1.025 χ^2/NDF :18.4/24

Right Out: -0.014 $\pm$ -0.009 χ^2/NDF : 18.8/18

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

Left: 0.342 $\pm$ -0.733 χ^2/NDF : 56.9/47

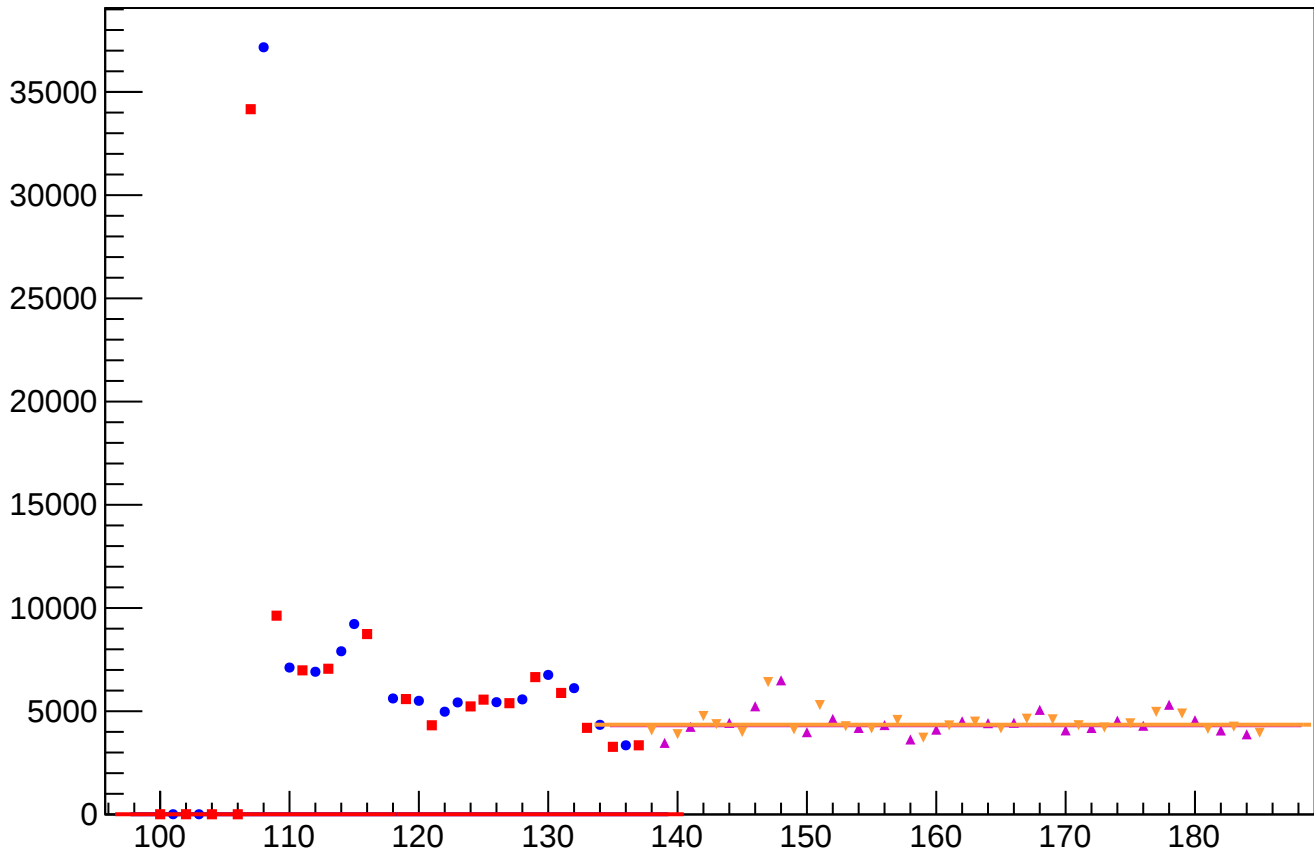
Right: -0.007 $\pm$ -0.006 χ^2/NDF : 33.0/35

In: 0.001 $\pm$ -0.009 χ^2/NDF :49.3/39

Out: -0.014 $\pm$ -0.009 χ^2/NDF :39.5/43

All: -0.007 $\pm$ -0.006 χ^2/NDF : 90.2/83

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 11067258.7/16

Left Out: 4347.993 $\pm$ 0.725 χ^2 /NDF: 383668.1/24

Right Out: 9.854 $\pm$ 0.006 χ^2 /NDF: 11113759.9/18

Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF: 514603.2/22

Left: 4335.082 $\pm$ 0.518 χ^2 /NDF: 898920.6/47

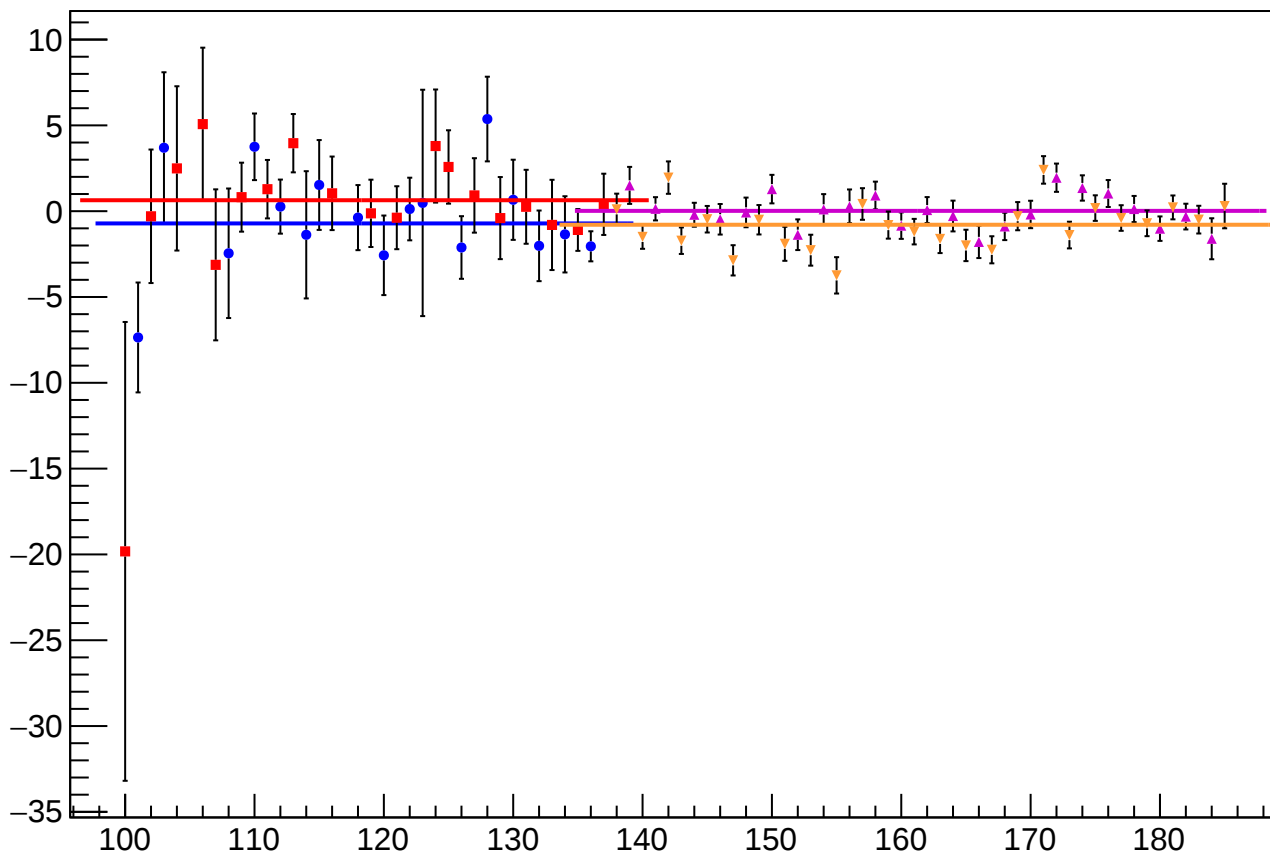
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22181108.5/35

In: 10.271 $\pm$ 0.007 χ^2 /NDF: 45399007.8/39

Out: 10.163 $\pm$ 0.006 χ^2 /NDF: 47319089.4/43

All: 10.214 $\pm$ 0.004 χ^2 /NDF: 92718242.7/83

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.713 $\pm$ 0.483 χ^2/NDF : 22.7/16

Left Out: -0.790 $\pm$ 0.165 χ^2/NDF : 59.4/24

Right Out: 0.638 $\pm$ 0.501 χ^2/NDF : 13.1/18

Left In: 0.018 $\pm$ 0.171 χ^2/NDF : 29.4/22

Left: -0.400 $\pm$ 0.119 χ^2/NDF : 100.4/47

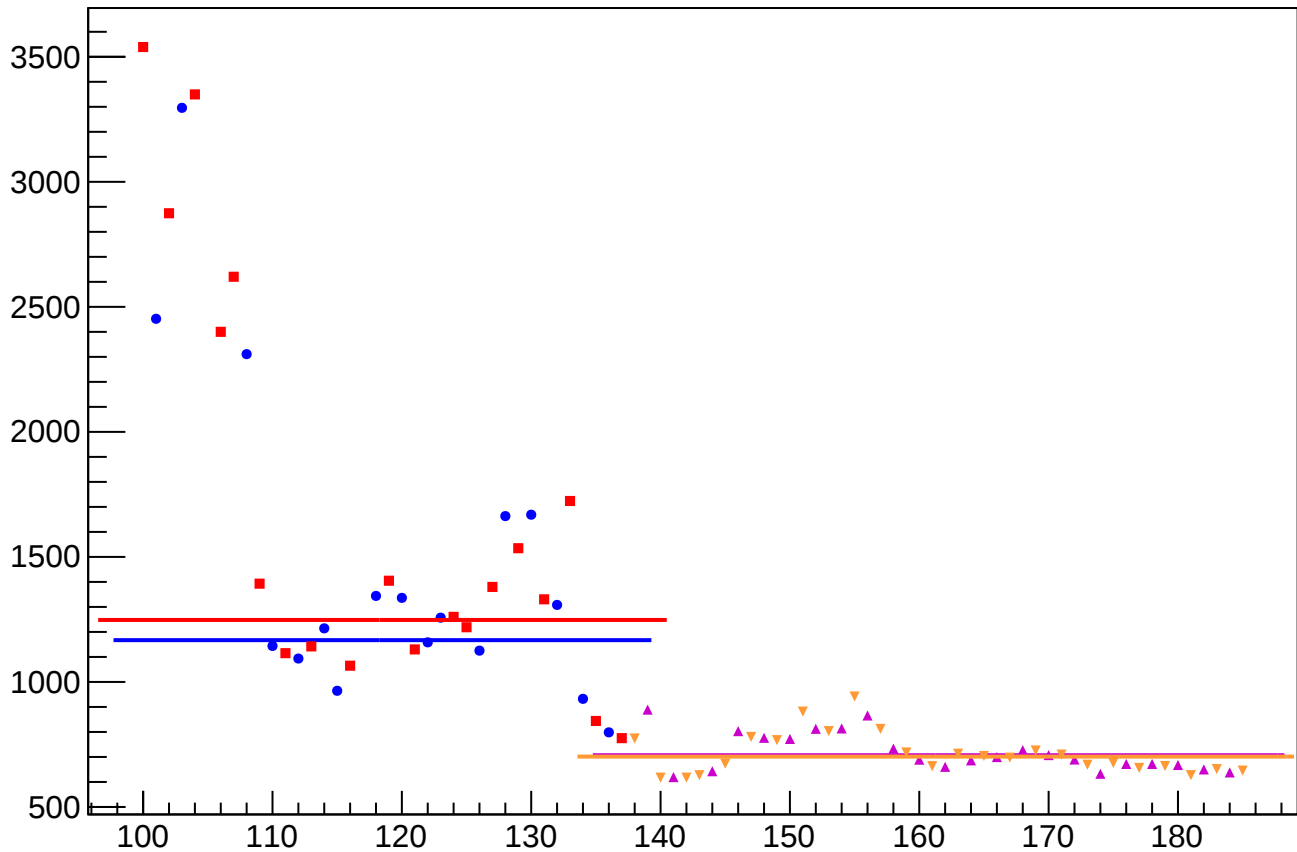
Right: -0.063 $\pm$ 0.348 χ^2/NDF : 39.5/35

In: -0.063 $\pm$ 0.161 χ^2/NDF : 54.2/39

Out: -0.651 $\pm$ 0.157 χ^2/NDF : 79.8/43

All: -0.364 $\pm$ 0.112 χ^2/NDF : 140.8/83

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.121+/-0.342 χ^2/NDF : 1580218.1/16

Left Out: 701.416+/-0.117 χ^2/NDF : 391030.1/24

Right Out: 1247.915+/-0.355 χ^2/NDF : 1653323.6/18

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

Left: 704.101+/-0.084 χ^2/NDF : 724134.7/47

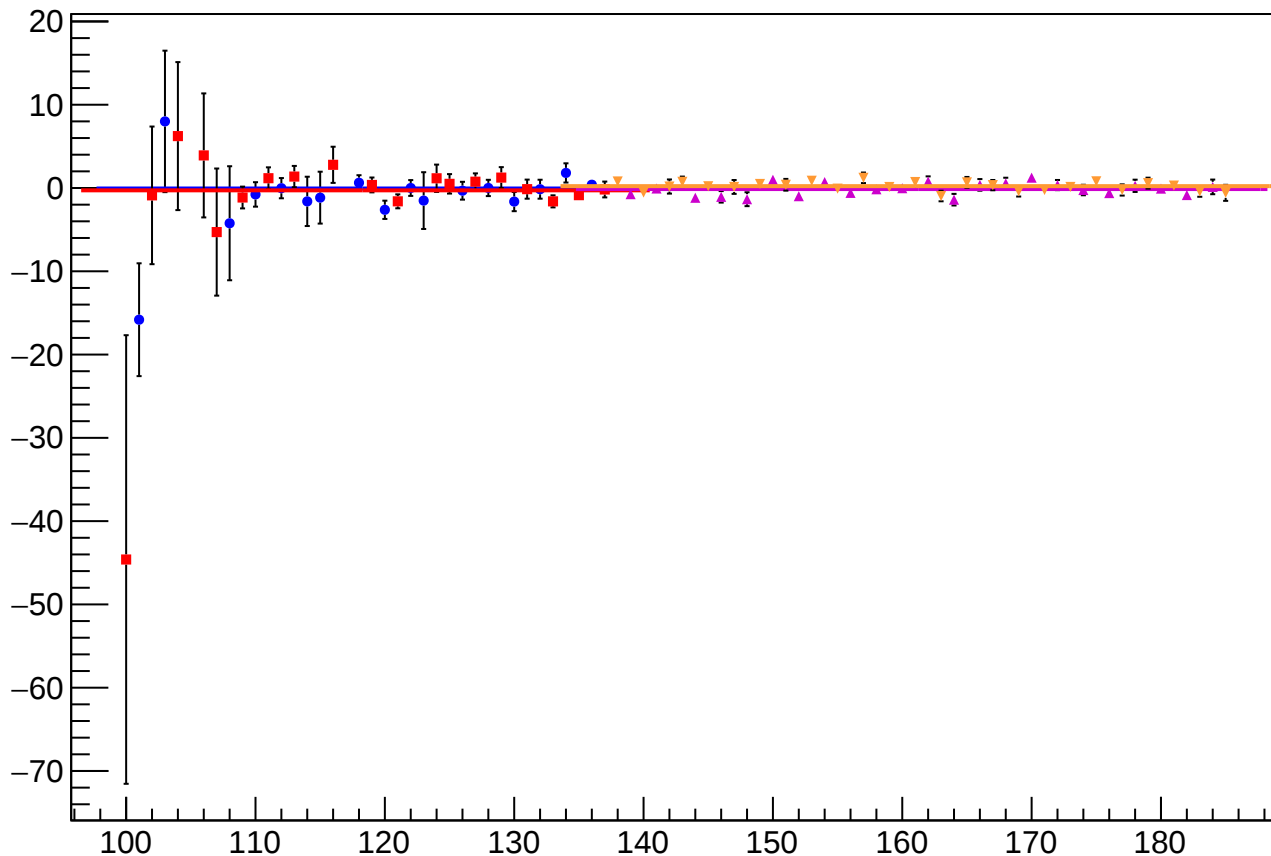
Right: 1206.012+/-0.246 χ^2/NDF : 3260466.3/35

In: 758.082+/-0.114 χ^2/NDF : 3525025.1/39

Out: 754.906+/-0.111 χ^2/NDF : 4187093.5/43

All: 756.453+/-0.079 χ^2/NDF : 7712517.8/83

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.224 ± 0.123 χ^2/NDF : 18.0/24

Right Out: -0.280 ± 0.264 χ^2/NDF : 20.5/18

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

Left: 0.053 ± 0.088 χ^2/NDF : 56.9/47

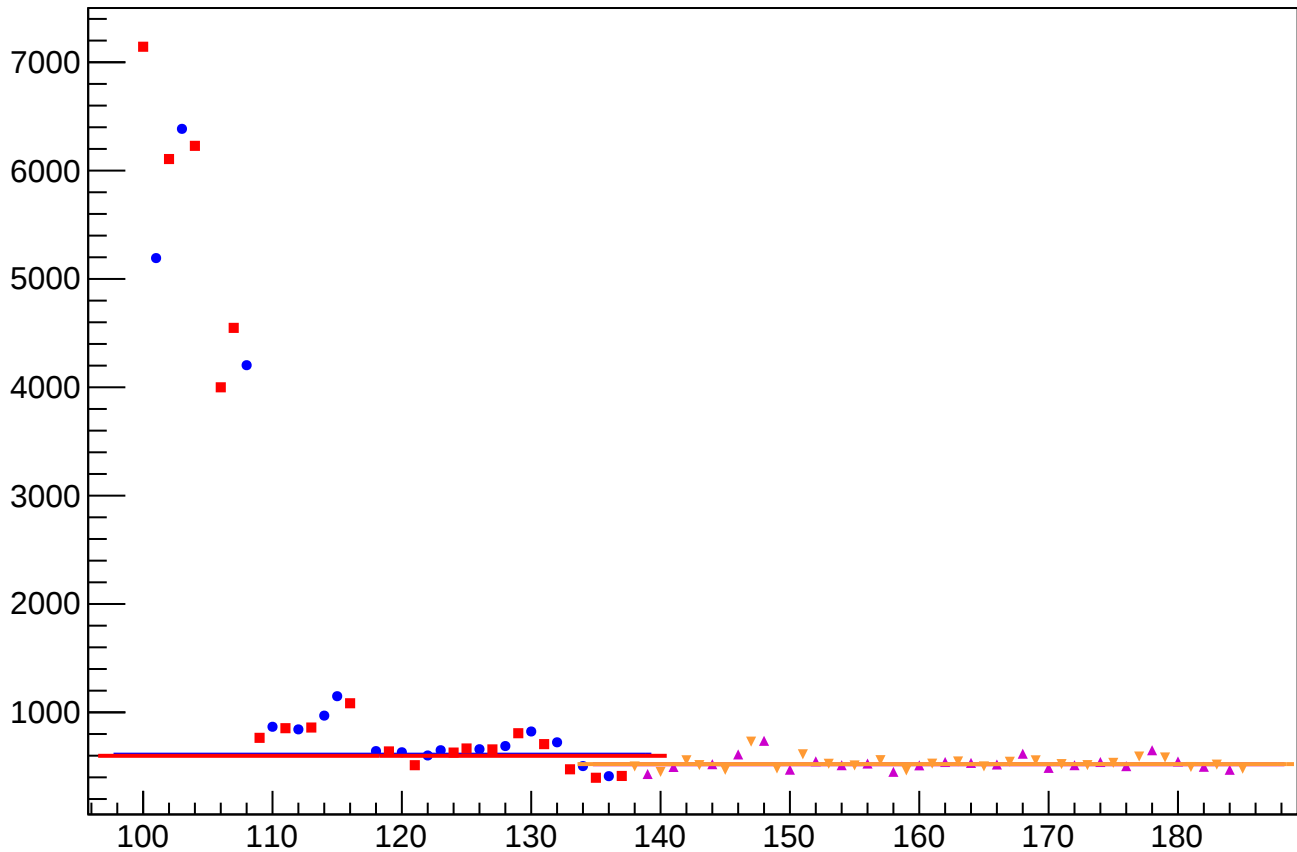
Right: -0.172 ± 0.189 χ^2/NDF : 40.0/35

In: -0.114 ± 0.114 χ^2/NDF : 54.1/39

Out: 0.134 ± 0.112 χ^2/NDF : 41.5/43

All: 0.013 ± 0.080 χ^2/NDF : 98.0/83

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 522.162+/-0.087 χ^2/NDF : 330580.9/24

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: 521.450+/-0.062 χ^2/NDF : 758439.2/47

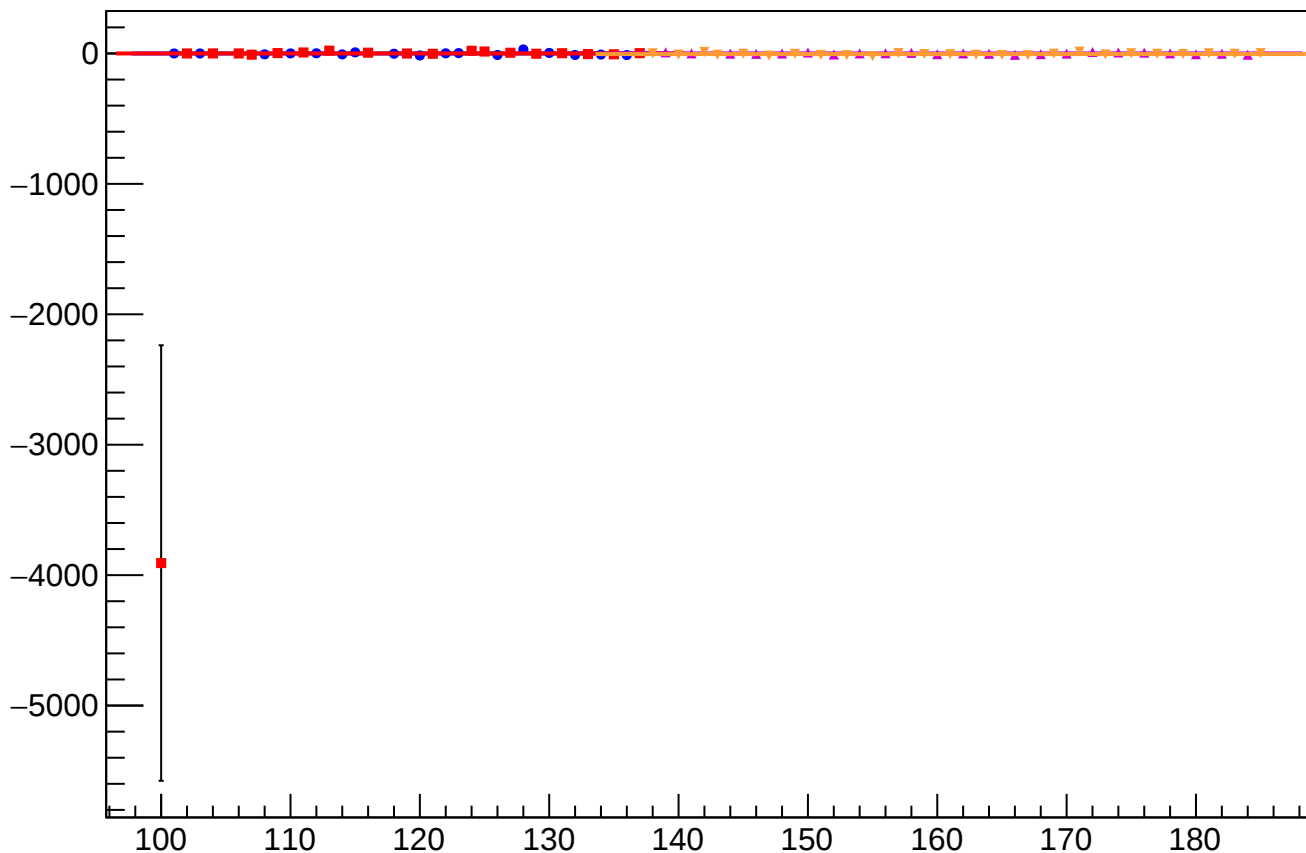
Right: 604.012+/-0.133 χ^2/NDF : 6688123.9/35

In: 536.687+/-0.081 χ^2/NDF : 3740237.6/39

Out: 535.794+/-0.079 χ^2/NDF : 4021019.4/43

All: 536.230+/-0.056 χ^2/NDF : 7761319.5/83

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -4.570 ± 0.961 χ^2/NDF : 59.3/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 17.4/18

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

Left: -2.274 ± 0.691 χ^2/NDF : 100.6/47

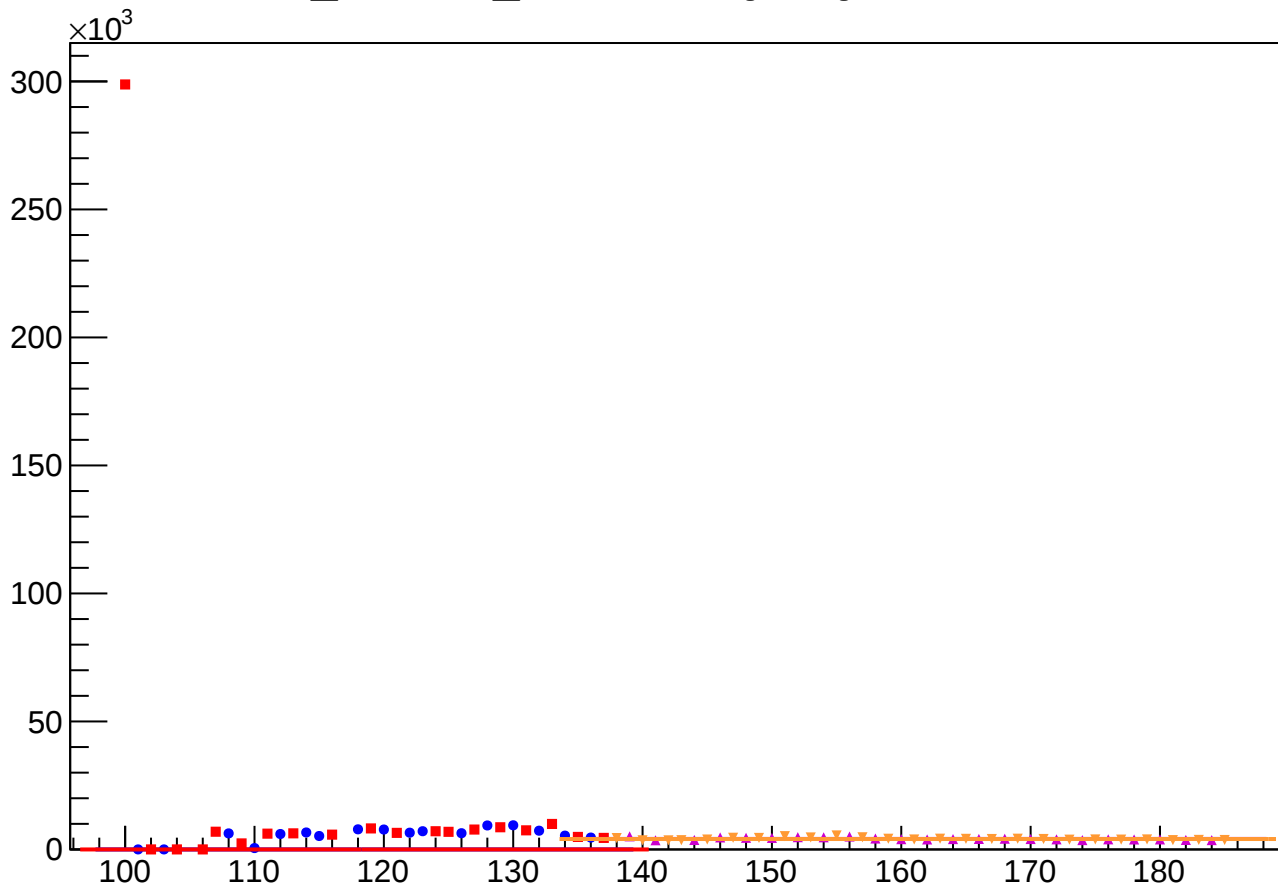
Right: 0.004 ± 0.014 χ^2/NDF : 36.3/35

In: -0.022 ± 0.021 χ^2/NDF : 45.5/39

Out: 0.025 ± 0.020 χ^2/NDF : 99.6/43

All: 0.003 ± 0.014 χ^2/NDF : 147.7/83

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.339+/-0.015 χ^2/NDF : 10457335.9/16

Left Out: 4077.810+/-0.679 χ^2/NDF : 415512.1/24

Right Out: 17.267+/-0.014 χ^2/NDF : 10773848.1/18

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

Left: 4095.284+/-0.488 χ^2/NDF : 766042.8/47

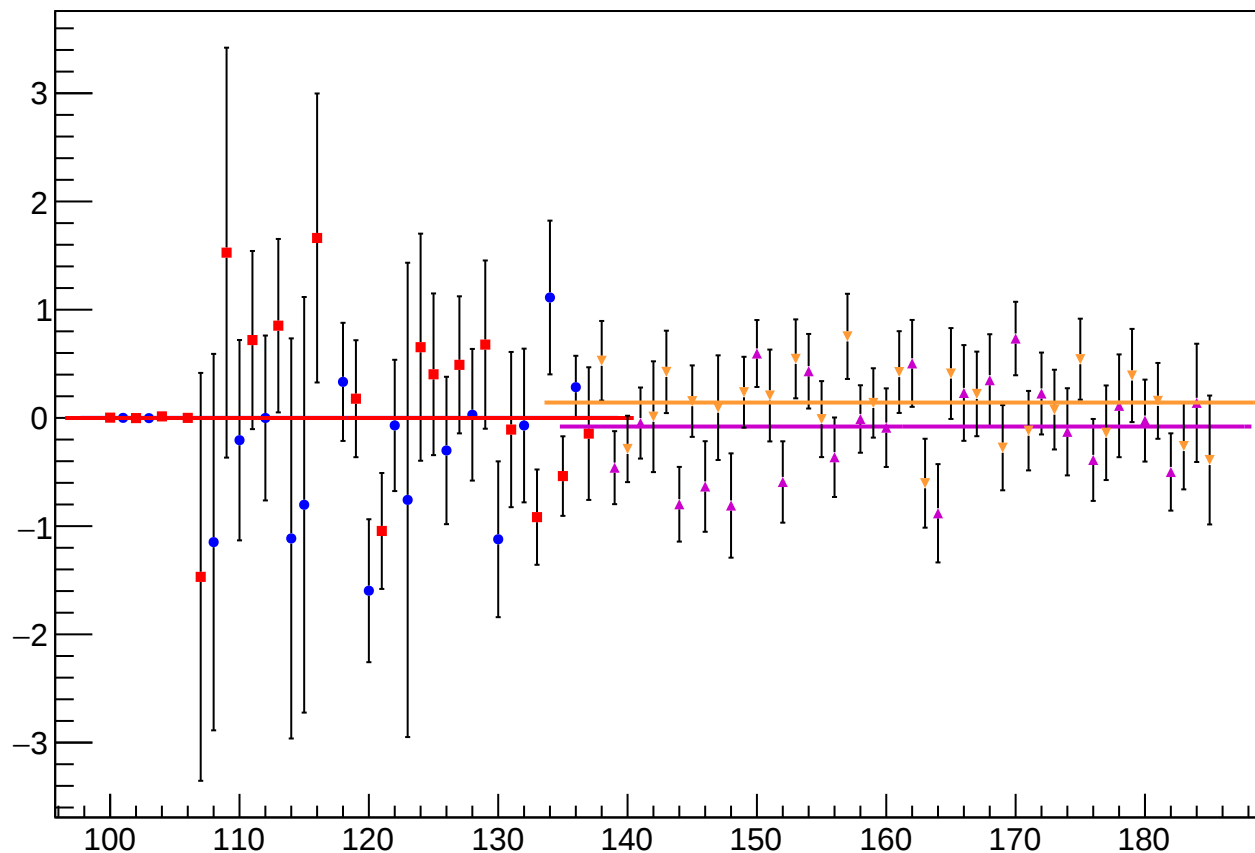
Right: 17.302+/-0.010 χ^2/NDF : 21231196.4/35

In: 19.131+/-0.015 χ^2/NDF : 44759872.6/39

Out: 18.988+/-0.014 χ^2/NDF : 46905708.0/43

All: 19.056+/-0.010 χ^2/NDF : 91665630.7/83

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 13.6/16$

Left Out: 0.142 ± 0.077 $\chi^2/\text{NDF}: 17.3/24$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 18.2/18$

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

Left: 0.034 ± 0.055 $\chi^2/\text{NDF}: 56.0/47$

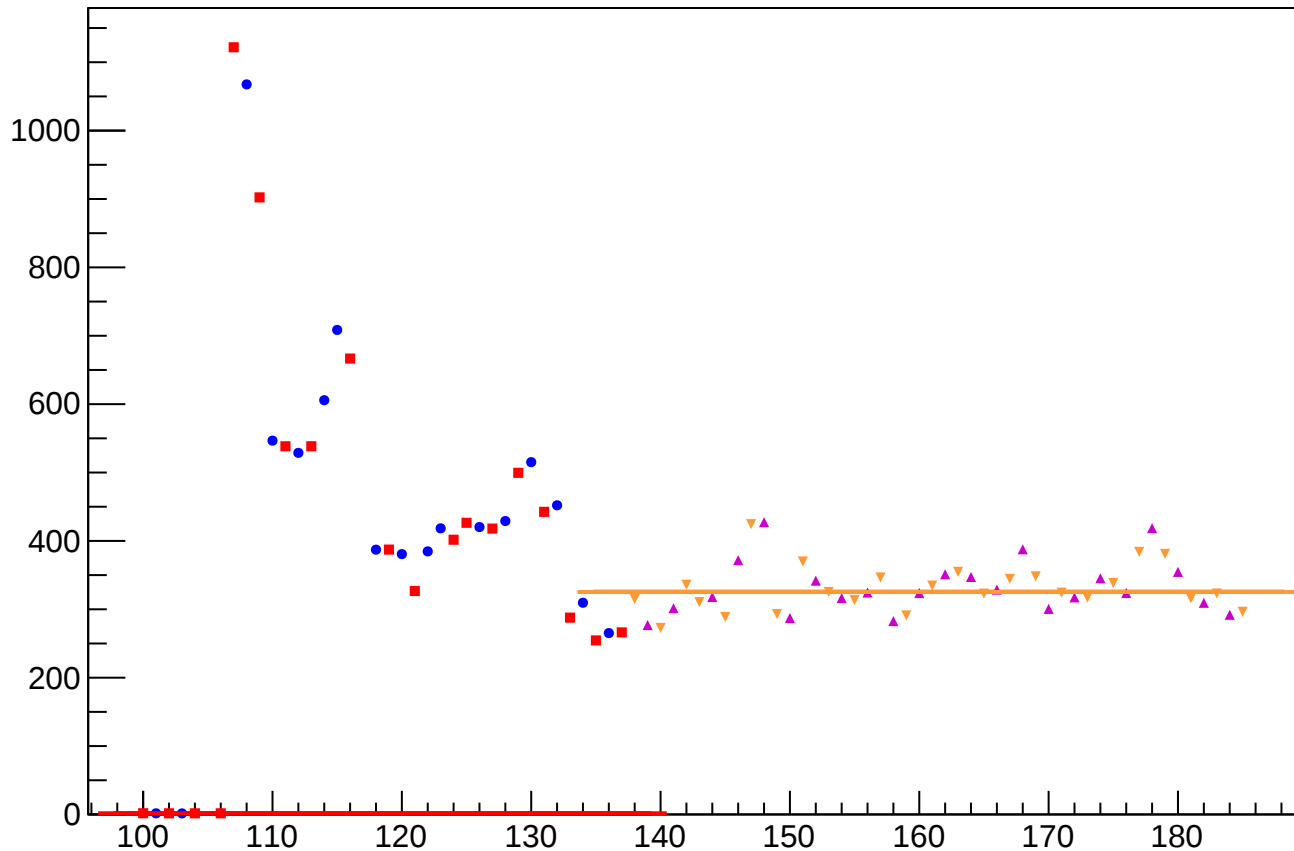
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 31.9/35$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 49.3/39$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 38.9/43$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 88.3/83$

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 325.342+/-0.054 χ^2/NDF : 347990.3/24

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: 325.480+/-0.039 χ^2/NDF : 761353.7/47

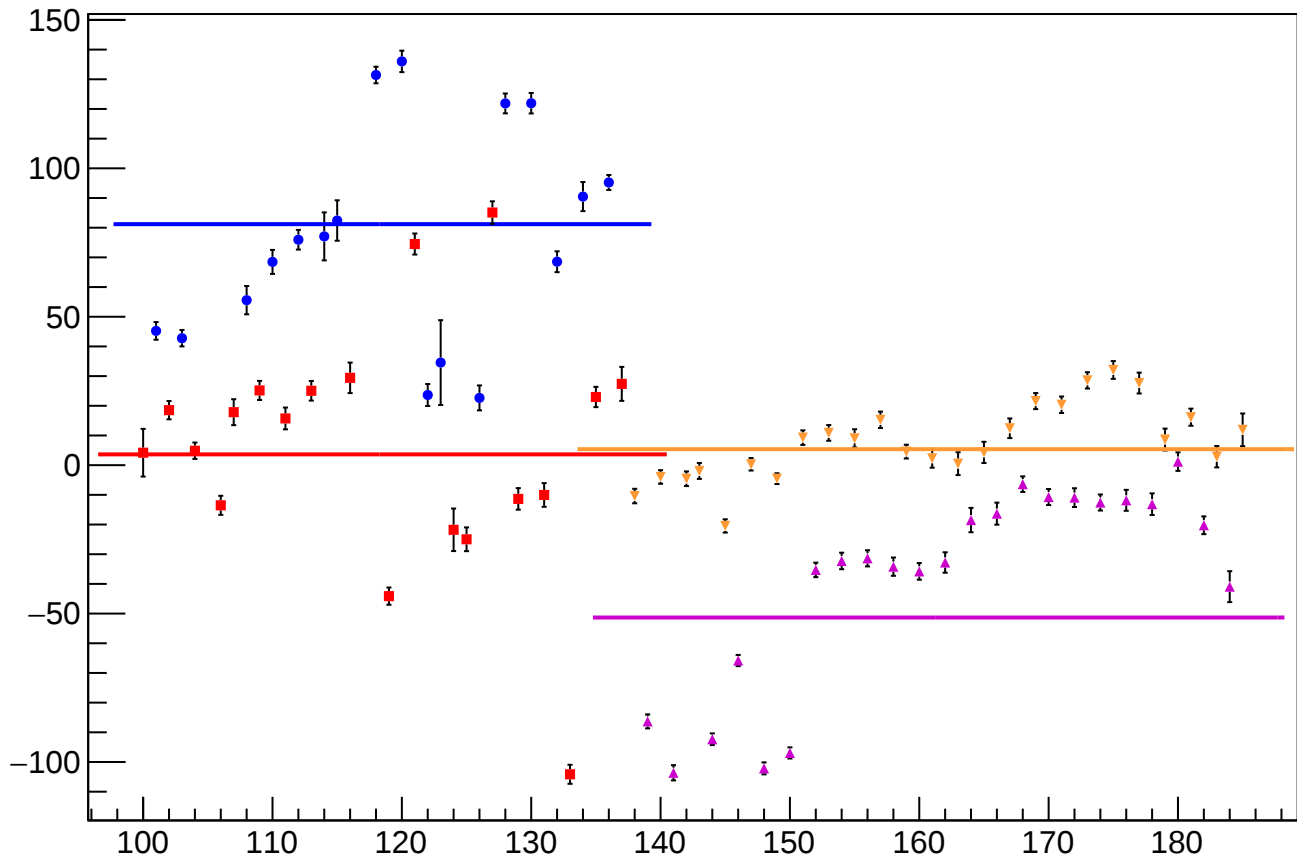
Right: 1.714+/-0.001 χ^2/NDF : 21704428.1/35

In: 1.912+/-0.001 χ^2/NDF : 45148541.4/39

Out: 1.935+/-0.001 χ^2/NDF : 46683227.7/43

All: 1.924+/-0.001 χ^2/NDF : 91831900.0/83

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 5.386 ± 0.546 $\chi^2/\text{NDF}: 551.9/24$

Right Out: 3.632 ± 0.844 $\chi^2/\text{NDF}: 2593.1/18$

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

Left: -22.347 ± 0.390 $\chi^2/\text{NDF}: 10081.8/47$

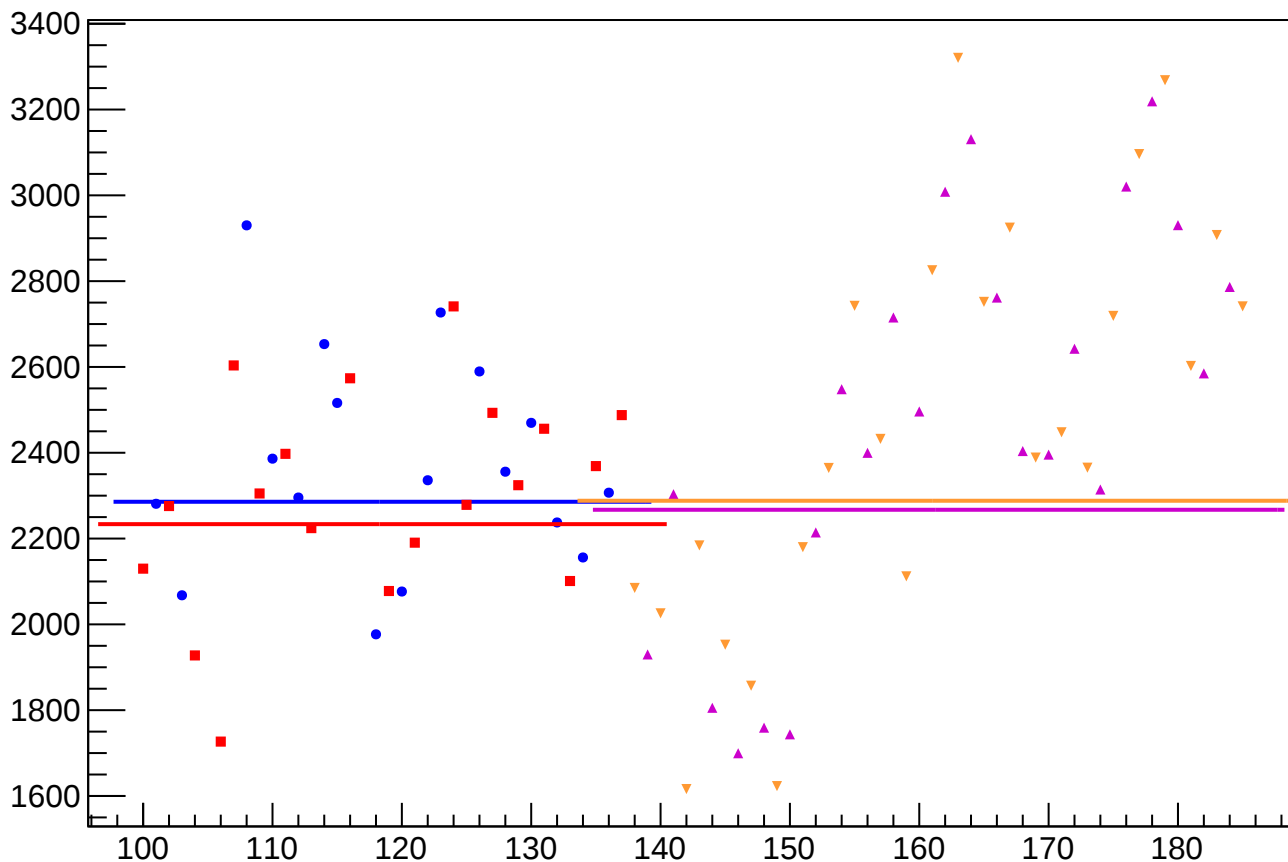
Right: 40.474 ± 0.611 $\chi^2/\text{NDF}: 8322.9/35$

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

Out: 4.868 ± 0.459 $\chi^2/\text{NDF}: 3148.0/43$

All: -4.152 ± 0.329 $\chi^2/\text{NDF}: 25902.4/83$

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2288.128 $\pm$ 0.386 χ^2/NDF : 1358782.4/24

Right Out: 2233.605 $\pm$ 0.597 χ^2/NDF : 147058.0/18

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

Left: 2277.844 $\pm$ 0.276 χ^2/NDF : 2673596.7/47

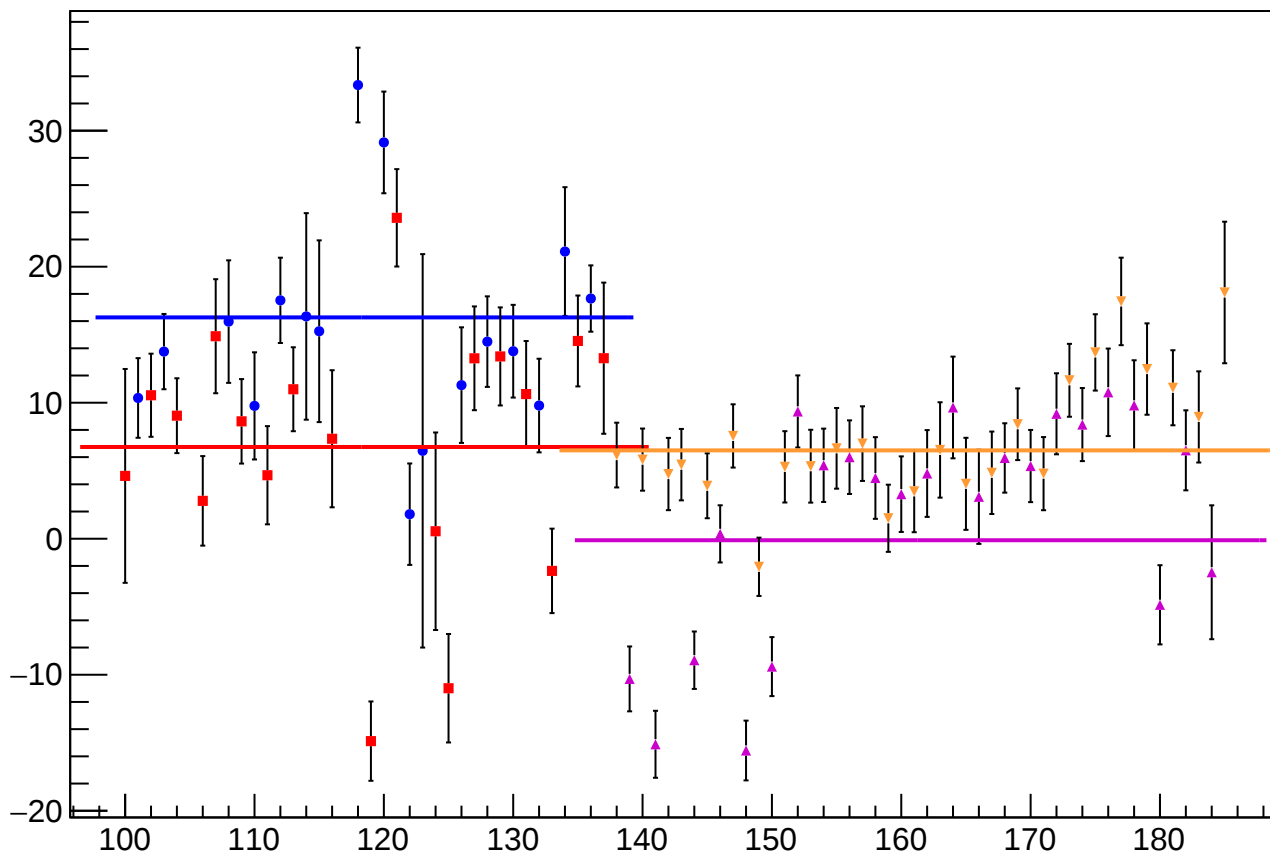
Right: 2258.379 $\pm$ 0.432 χ^2/NDF : 259845.0/35

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

Out: 2272.033 $\pm$ 0.324 χ^2/NDF : 1511723.5/43

All: 2272.206 $\pm$ 0.233 χ^2/NDF : 2934881.3/83

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

Left Out: 6.496 $\pm$ 0.550 χ^2 /NDF:58.7/24

Right Out: 6.745 $\pm$ 0.832 χ^2 /NDF: 130.5/18

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

Left: 3.284 $\pm$ 0.394 χ^2 /NDF: 363.4/47

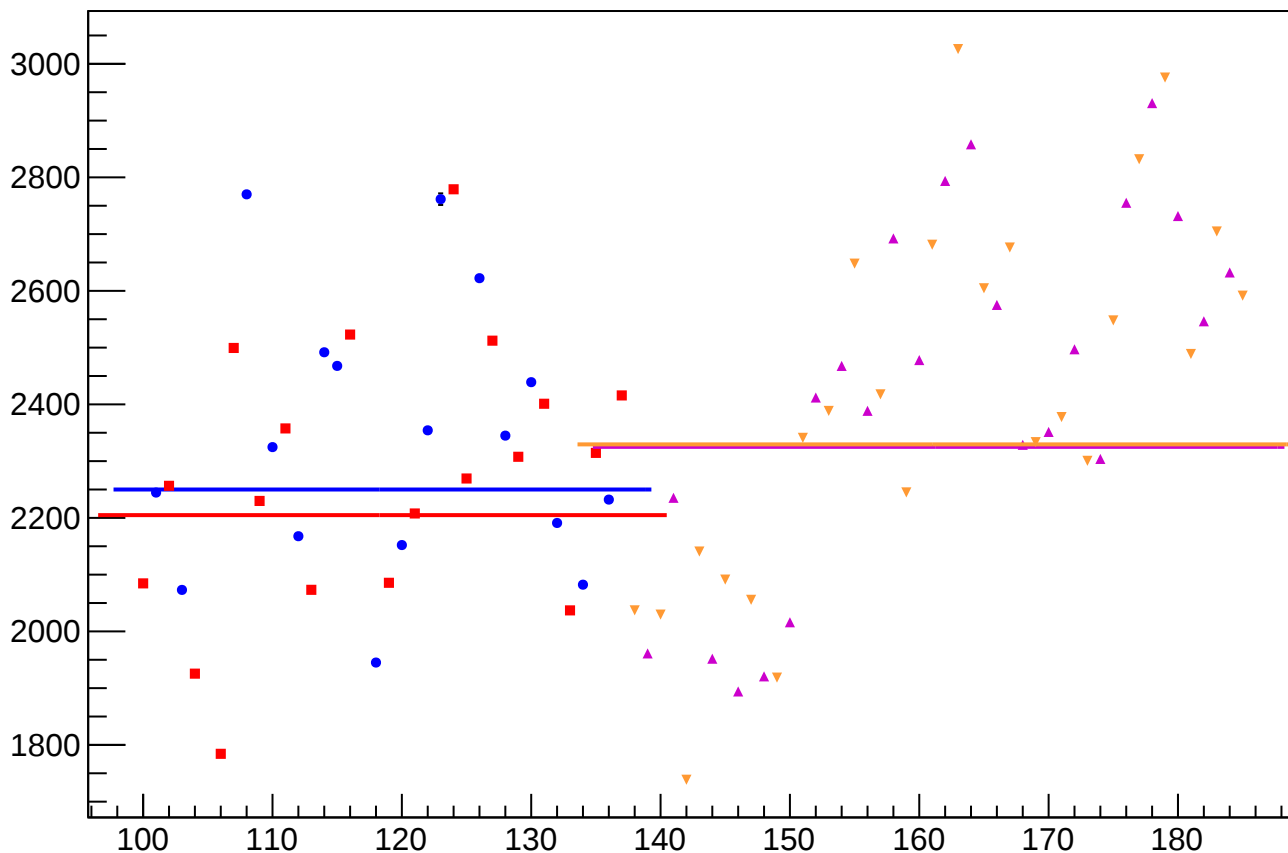
Right: 11.281 $\pm$ 0.602 χ^2 /NDF: 273.9/35

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

Out: 6.572 $\pm$ 0.459 χ^2 /NDF:189.3/43

All: 5.681 $\pm$ 0.330 χ^2 /NDF: 760.8/83

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2249.997 $\pm$ 0.617 χ^2 /NDF: 97501.6/16

Left Out: 2329.509 $\pm$ 0.389 χ^2 /NDF: 642009.2/24

Right Out: 2204.860 $\pm$ 0.588 χ^2 /NDF: 126433.4/18

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

Left: 2327.402 $\pm$ 0.279 χ^2 /NDF: 1252798.9/47

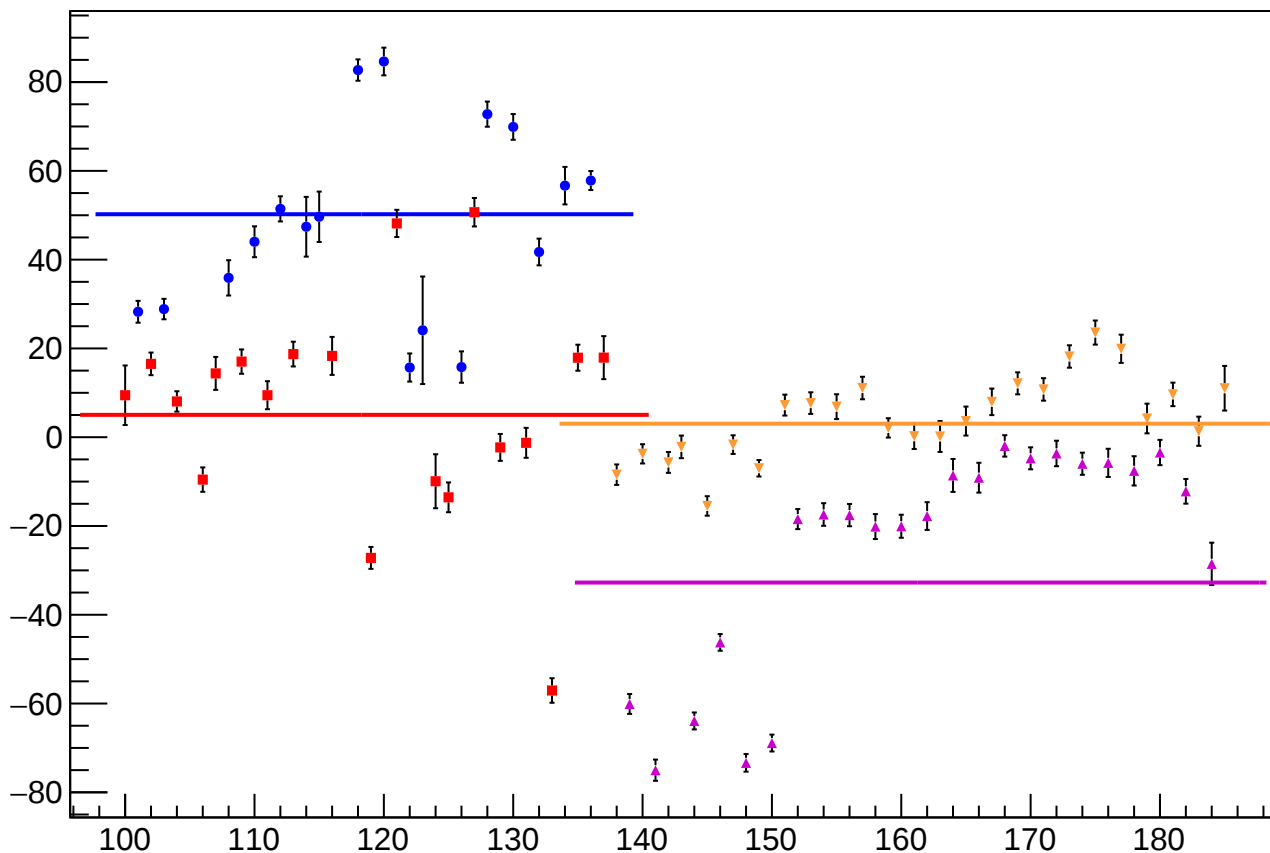
Right: 2226.349 $\pm$ 0.426 χ^2 /NDF: 226736.2/35

In: 2302.972 $\pm$ 0.335 χ^2 /NDF: 718683.1/39

Out: 2291.632 $\pm$ 0.324 χ^2 /NDF: 799679.7/43

All: 2297.111 $\pm$ 0.233 χ^2 /NDF: 1518953.3/83

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: 3.045+/-0.514 χ^2/NDF : 334.7/24

Right Out: 5.035+/-0.715 χ^2/NDF : 1259.3/18

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

Left: -14.430+/-0.368 χ^2/NDF : 5335.4/47

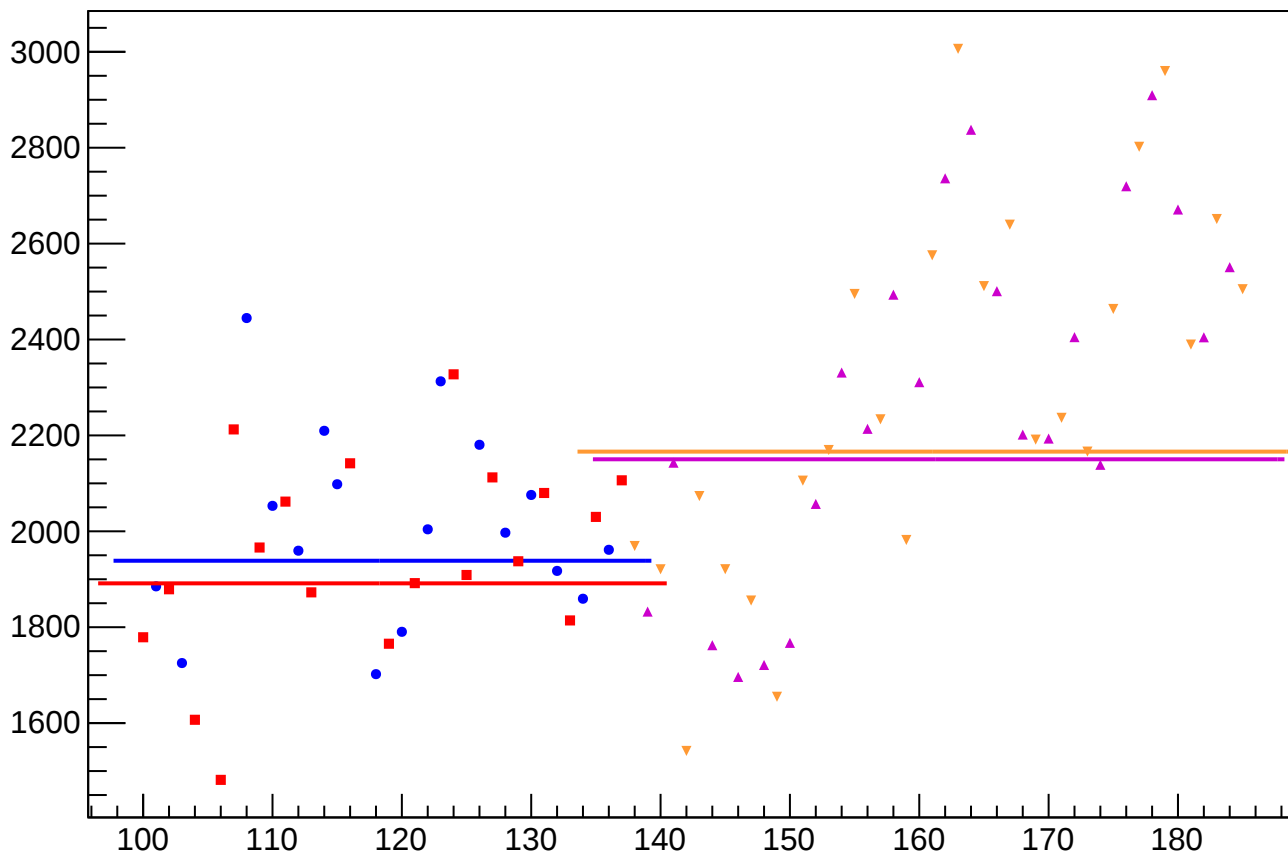
Right: 26.479+/-0.518 χ^2/NDF : 3994.7/35

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

Out: 3.723+/-0.417 χ^2/NDF : 1599.2/43

All: -0.728+/-0.300 χ^2/NDF : 13477.5/83

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.613 $\pm$ 0.532 χ^2 /NDF: 100004.8/16

Left Out: 2166.202 $\pm$ 0.363 χ^2 /NDF: 963321.9/24

Right Out: 1891.458 $\pm$ 0.505 χ^2 /NDF: 146730.0/18

Left In: 2150.190 $\pm$ 0.372 χ^2 /NDF: 911849.7/22

Left: 2158.384 $\pm$ 0.260 χ^2 /NDF: 1876119.6/47

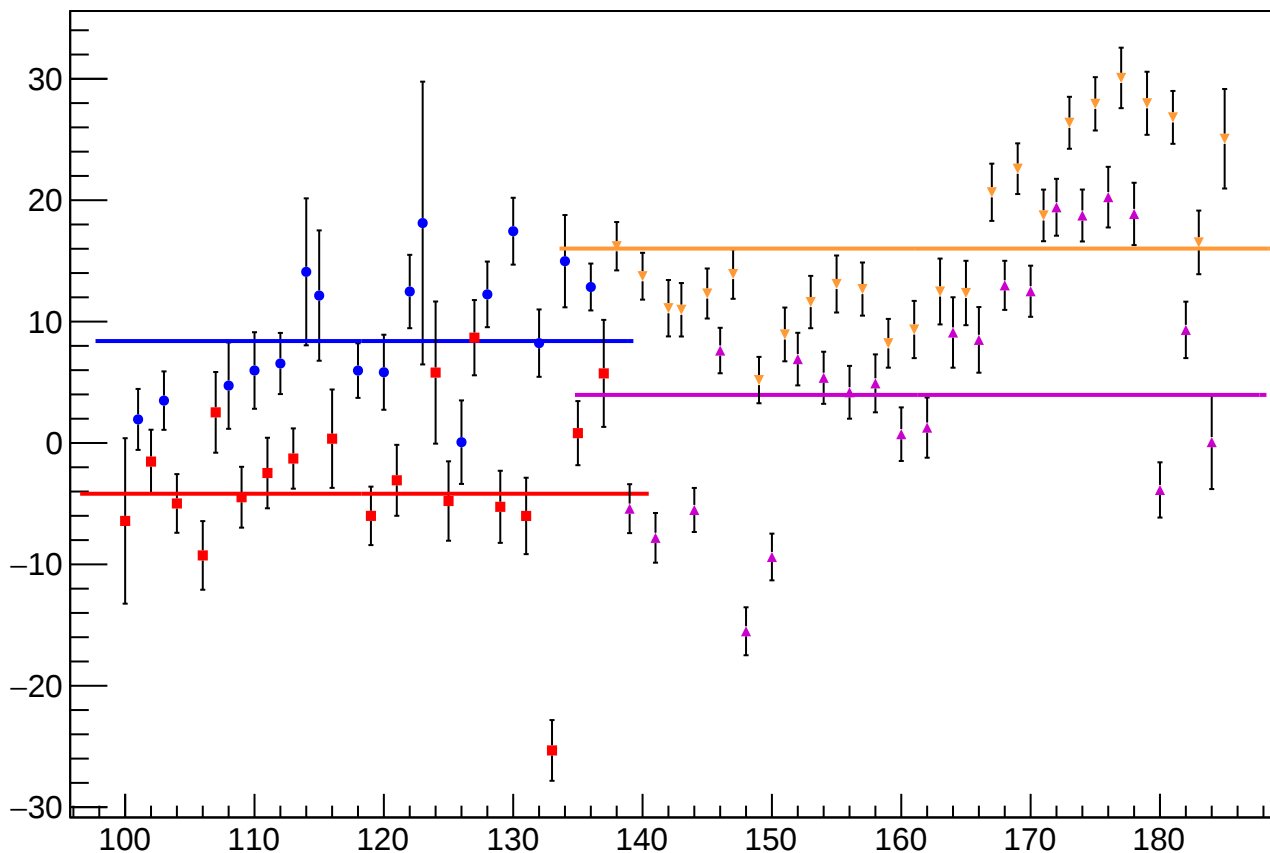
Right: 1913.832 $\pm$ 0.366 χ^2 /NDF: 250866.9/35

In: 2080.668 $\pm$ 0.305 χ^2 /NDF: 1118133.8/39

Out: 2072.546 $\pm$ 0.295 χ^2 /NDF: 1304911.6/43

All: 2076.474 $\pm$ 0.212 χ^2 /NDF: 2423411.9/83

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.398 ± 0.712 $\chi^2/\text{NDF}: 45.7/16$

Left Out: 16.017 ± 0.449 $\chi^2/\text{NDF}: 243.4/24$

Right Out: -4.180 ± 0.684 $\chi^2/\text{NDF}: 112.9/18$

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

Left: 10.170 ± 0.322 $\chi^2/\text{NDF}: 1057.8/47$

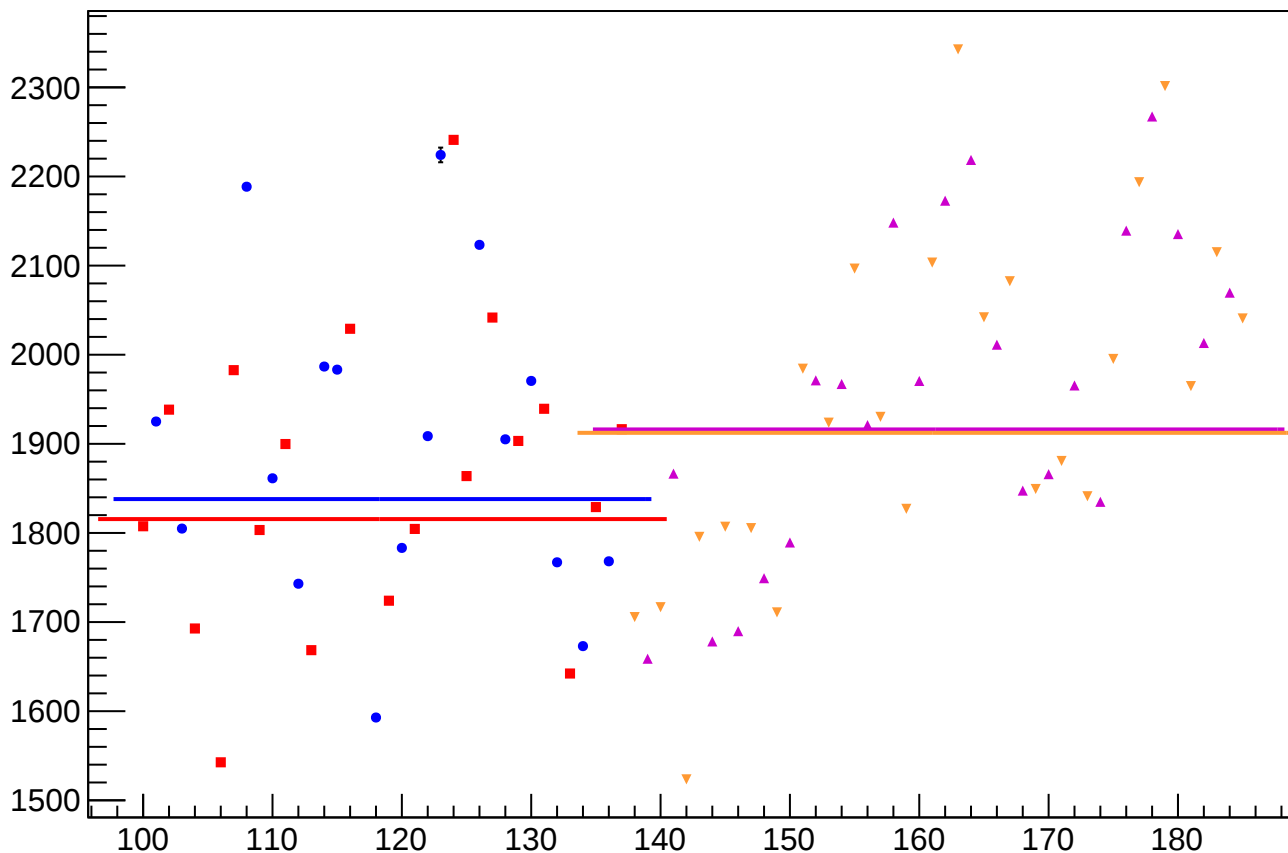
Right: 1.849 ± 0.493 $\chi^2/\text{NDF}: 320.9/35$

In: 5.277 ± 0.388 $\chi^2/\text{NDF}: 537.9/39$

Out: 9.928 ± 0.375 $\chi^2/\text{NDF}: 966.1/43$

All: 7.680 ± 0.270 $\chi^2/\text{NDF}: 1578.1/83$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.009 $\pm$ 0.504 χ^2 /NDF: 82831.2/16

Left Out: 1912.351 $\pm$ 0.318 χ^2 /NDF:326287.1/24

Right Out: 1815.562 $\pm$ 0.483 χ^2 /NDF: 87647.1/18

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

Left: 1914.198 $\pm$ 0.228 χ^2 /NDF: 600642.1/47

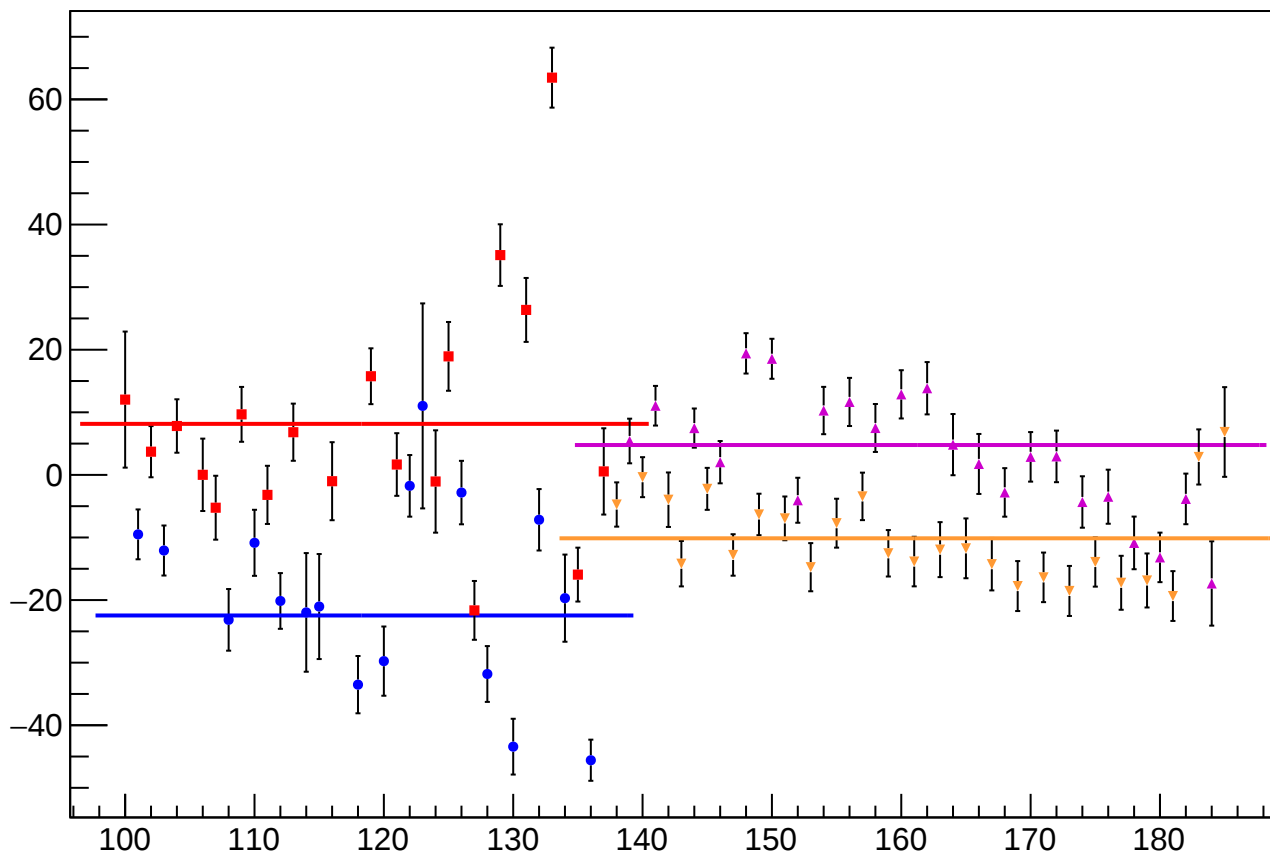
Right: 1826.322 $\pm$ 0.349 χ^2 /NDF: 171512.1/35

In: 1892.965 $\pm$ 0.274 χ^2 /NDF:374040.6/39

Out: 1883.168 $\pm$ 0.265 χ^2 /NDF:441940.3/43

All: 1887.903 $\pm$ 0.191 χ^2 /NDF: 816639.3/83

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.463 ± 1.197 $\chi^2/\text{NDF}: 152.8/16$

Left Out: -10.131 ± 0.779 $\chi^2/\text{NDF}: 67.1/24$

Right Out: 8.153 ± 1.158 $\chi^2/\text{NDF}: 277.0/18$

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

Left: -2.878 ± 0.558 $\chi^2/\text{NDF}: 373.6/47$

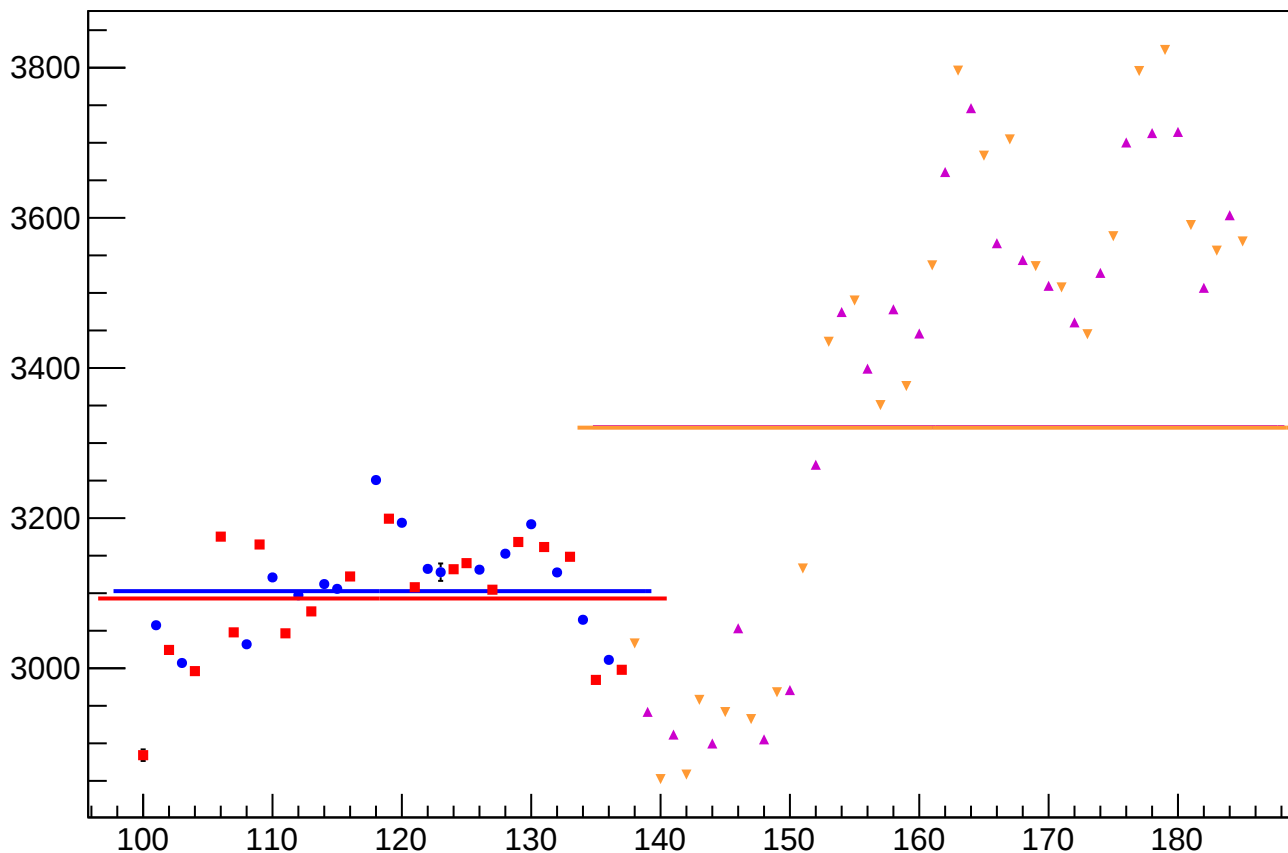
Right: -6.657 ± 0.832 $\chi^2/\text{NDF}: 767.7/35$

In: -3.645 ± 0.665 $\chi^2/\text{NDF}: 639.2/39$

Out: -4.434 ± 0.647 $\chi^2/\text{NDF}: 515.6/43$

All: -4.051 ± 0.464 $\chi^2/\text{NDF}: 1155.5/83$

diff_bpm0l01X_rms vs Slug, Sign Corrected



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

Left Out: 3320.536 $\pm$ 0.551 χ^2 /NDF:333235.8/24

Right Out: 3092.954 $\pm$ 0.819 χ^2 /NDF: 7802.6/18

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

Left: 3320.896 $\pm$ 0.395 χ^2 /NDF: 617570.9/47

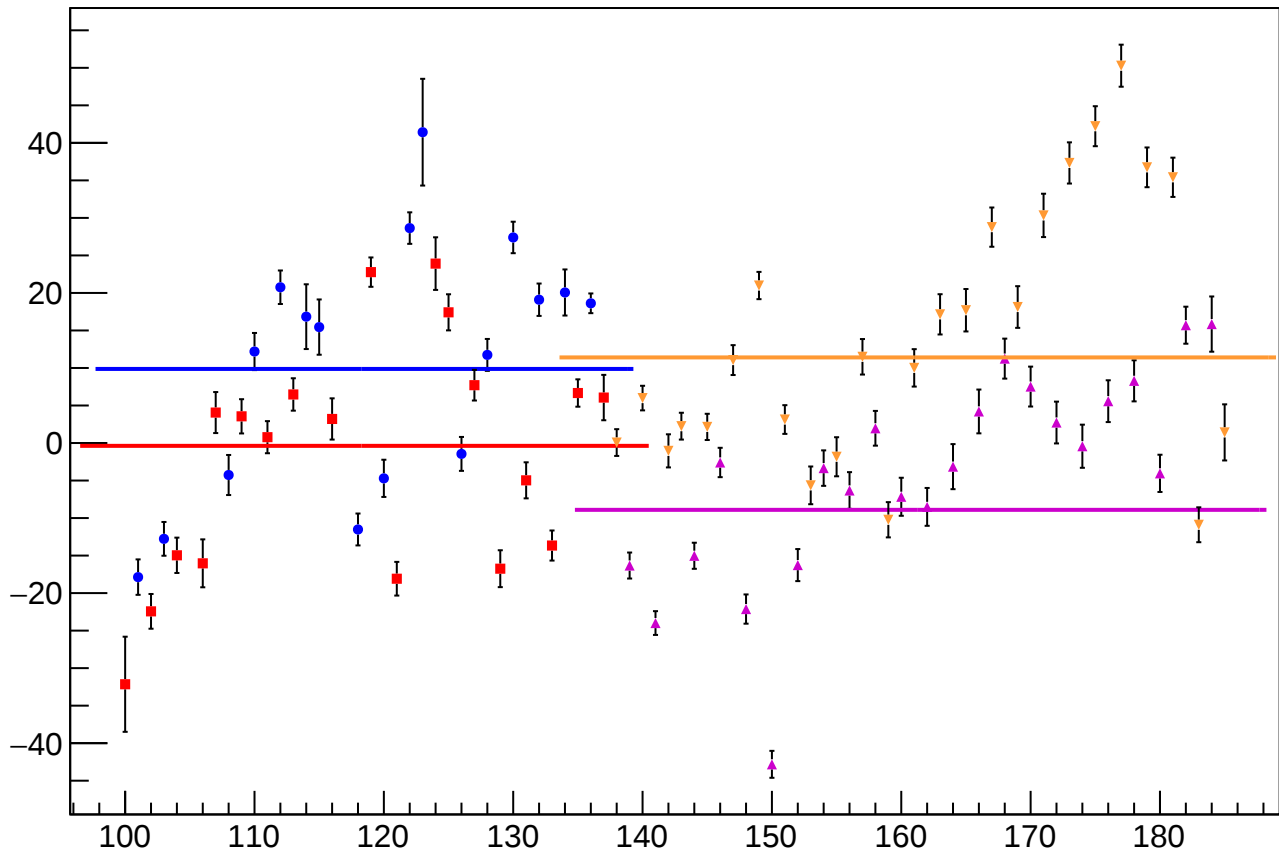
Right: 3097.690 $\pm$ 0.589 χ^2 /NDF: 15209.4/35

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

Out: 3249.627 $\pm$ 0.457 χ^2 /NDF:394172.9/43

All: 3251.620 $\pm$ 0.328 χ^2 /NDF: 731956.9/83

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.873 ± 0.560 $\chi^2/\text{NDF}: 701.6/16$

Left Out: 11.408 ± 0.457 $\chi^2/\text{NDF}: 1133.8/24$

Right Out: -0.377 ± 0.548 $\chi^2/\text{NDF}: 628.0/18$

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

Left: 1.703 ± 0.330 $\chi^2/\text{NDF}: 3015.0/47$

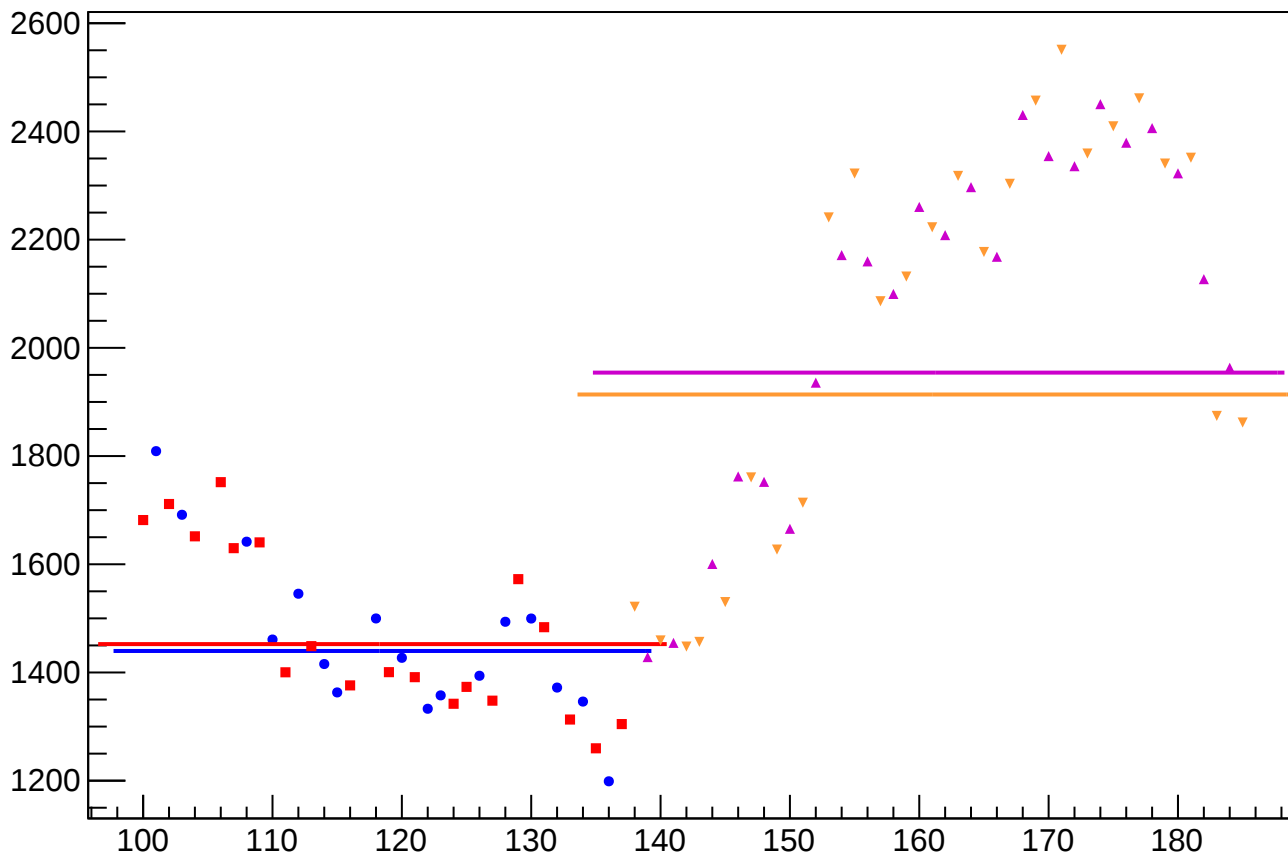
Right: 4.631 ± 0.392 $\chi^2/\text{NDF}: 1500.7/35$

In: -1.007 ± 0.363 $\chi^2/\text{NDF}: 2288.3/39$

Out: 6.575 ± 0.351 $\chi^2/\text{NDF}: 2034.8/43$

All: 2.919 ± 0.252 $\chi^2/\text{NDF}: 4548.4/83$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.733 +/- 0.396 χ^2/NDF : 172867.1/16

Left Out: 1913.798 +/- 0.323 χ^2/NDF : 1380174.9/24

Right Out: 1452.445 +/- 0.387 χ^2/NDF : 138400.9/18

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

Left: 1933.118 +/- 0.233 χ^2/NDF : 2432491.7/47

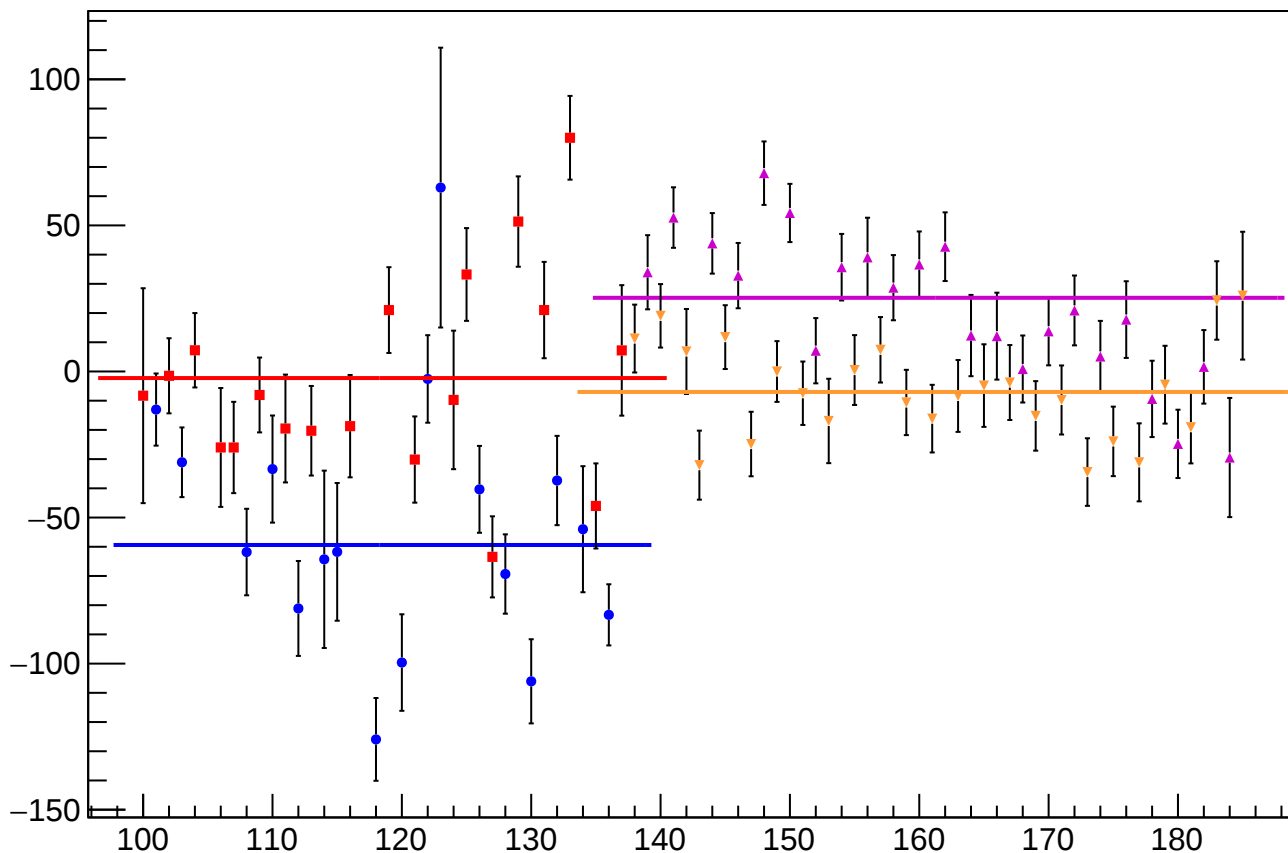
Right: 1446.234 +/- 0.277 χ^2/NDF : 311794.3/35

In: 1737.829 +/- 0.257 χ^2/NDF : 2194267.8/39

Out: 1724.592 +/- 0.248 χ^2/NDF : 2355412.7/43

All: 1730.976 +/- 0.178 χ^2/NDF : 4551053.8/83

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.392 ± 3.736 $\chi^2/\text{NDF}: 92.5/16$

Left Out: -7.012 ± 2.431 $\chi^2/\text{NDF}: 43.1/24$

Right Out: -2.255 ± 3.636 $\chi^2/\text{NDF}: 94.4/18$

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

Left: 8.738 ± 1.738 $\chi^2/\text{NDF}: 218.3/47$

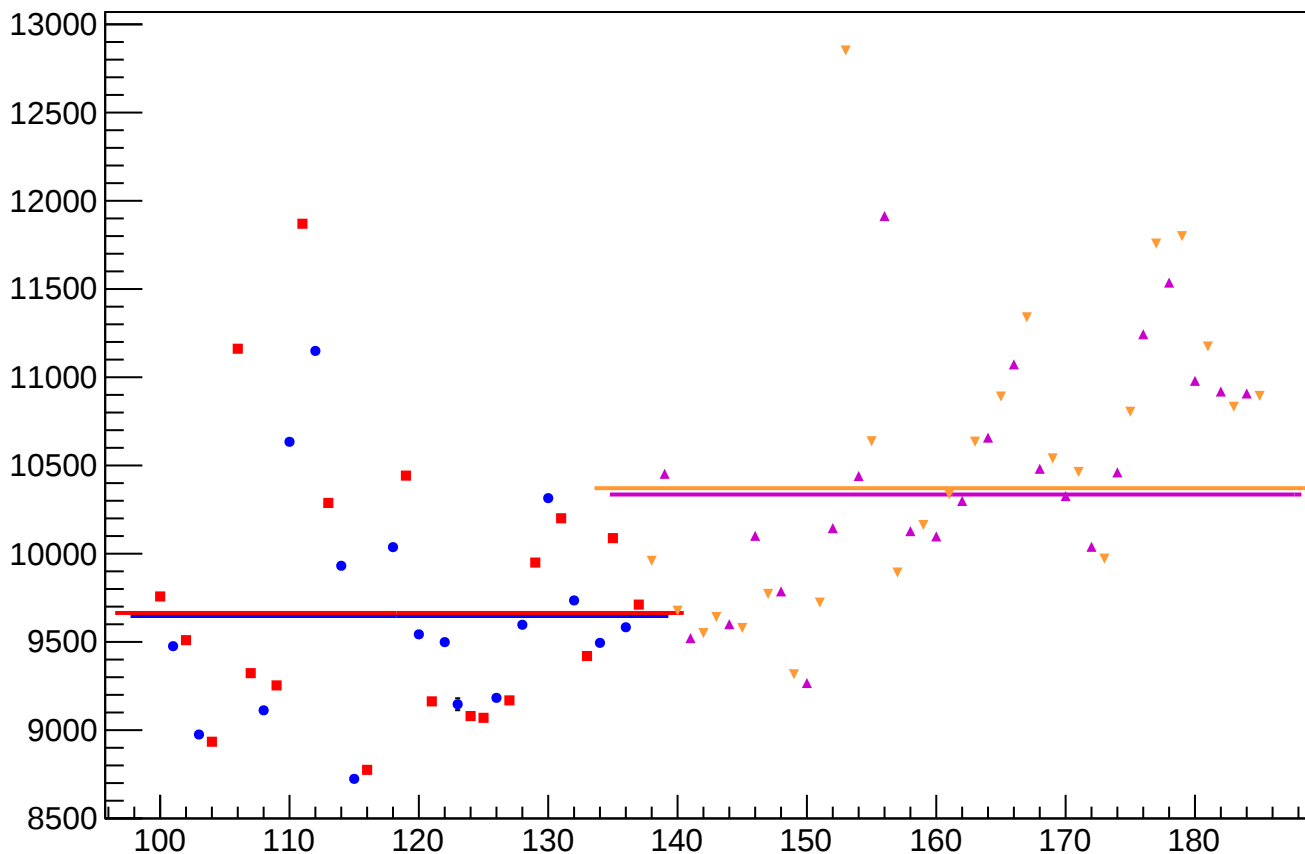
Right: -30.055 ± 2.606 $\chi^2/\text{NDF}: 307.0/35$

In: -0.763 ± 2.070 $\chi^2/\text{NDF}: 537.3/39$

Out: -5.542 ± 2.021 $\chi^2/\text{NDF}: 138.7/43$

All: -3.210 ± 1.446 $\chi^2/\text{NDF}: 678.7/83$

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

Left Out: 10371.307 ± 1.719 $\chi^2/\text{NDF}: 210185.6/24$

Right Out: 9664.191 ± 2.571 $\chi^2/\text{NDF}: 77326.5/18$

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

Left: 10353.758 ± 1.229 $\chi^2/\text{NDF}: 337571.8/47$

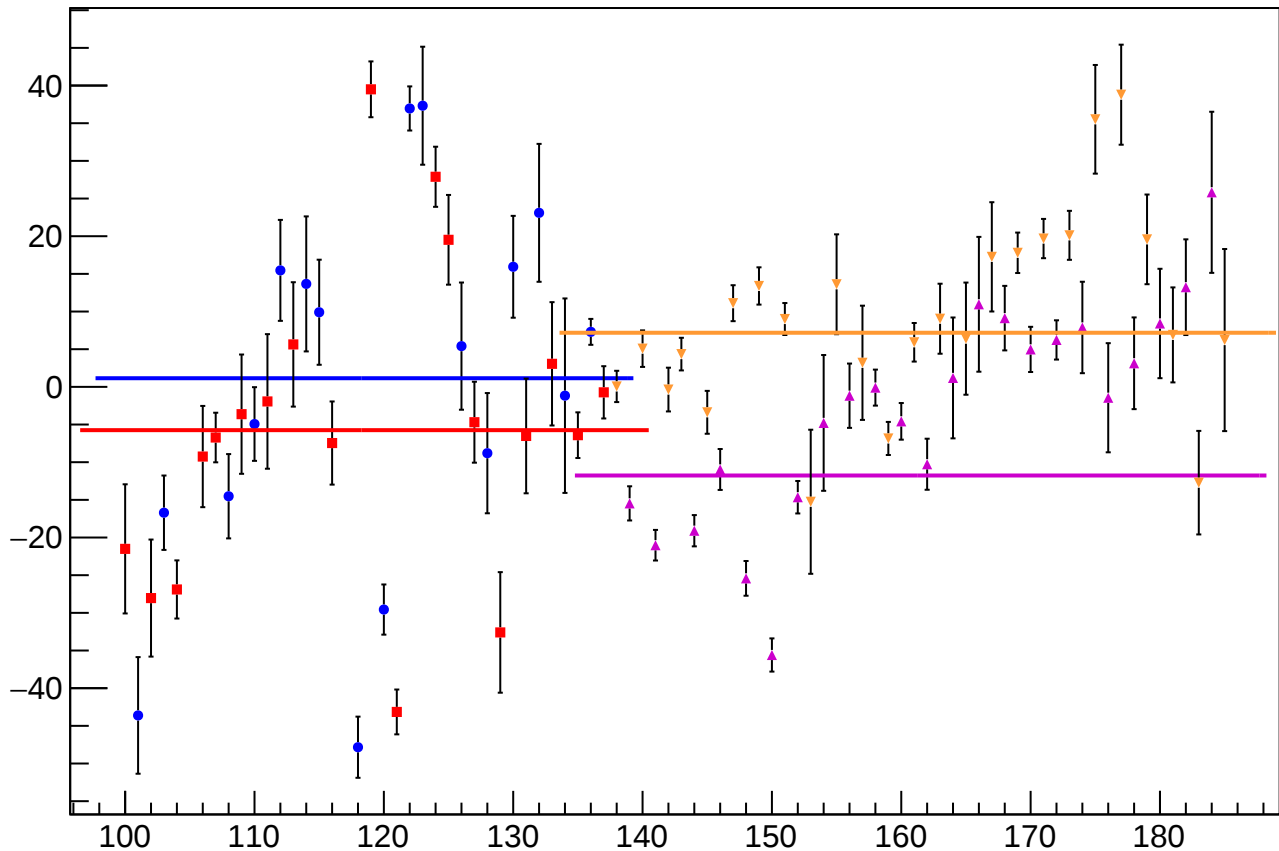
Right: 9655.788 ± 1.842 $\chi^2/\text{NDF}: 121345.6/35$

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

Out: 10152.881 ± 1.429 $\chi^2/\text{NDF}: 339778.1/43$

All: 10138.788 ± 1.023 $\chi^2/\text{NDF}: 558223.6/83$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.147 ± 1.067 $\chi^2/\text{NDF}: 490.7/16$

Left Out: 7.184 ± 0.643 $\chi^2/\text{NDF}: 199.7/24$

Right Out: -5.747 ± 1.092 $\chi^2/\text{NDF}: 455.0/18$

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

Left: -2.218 ± 0.457 $\chi^2/\text{NDF}: 1025.2/47$

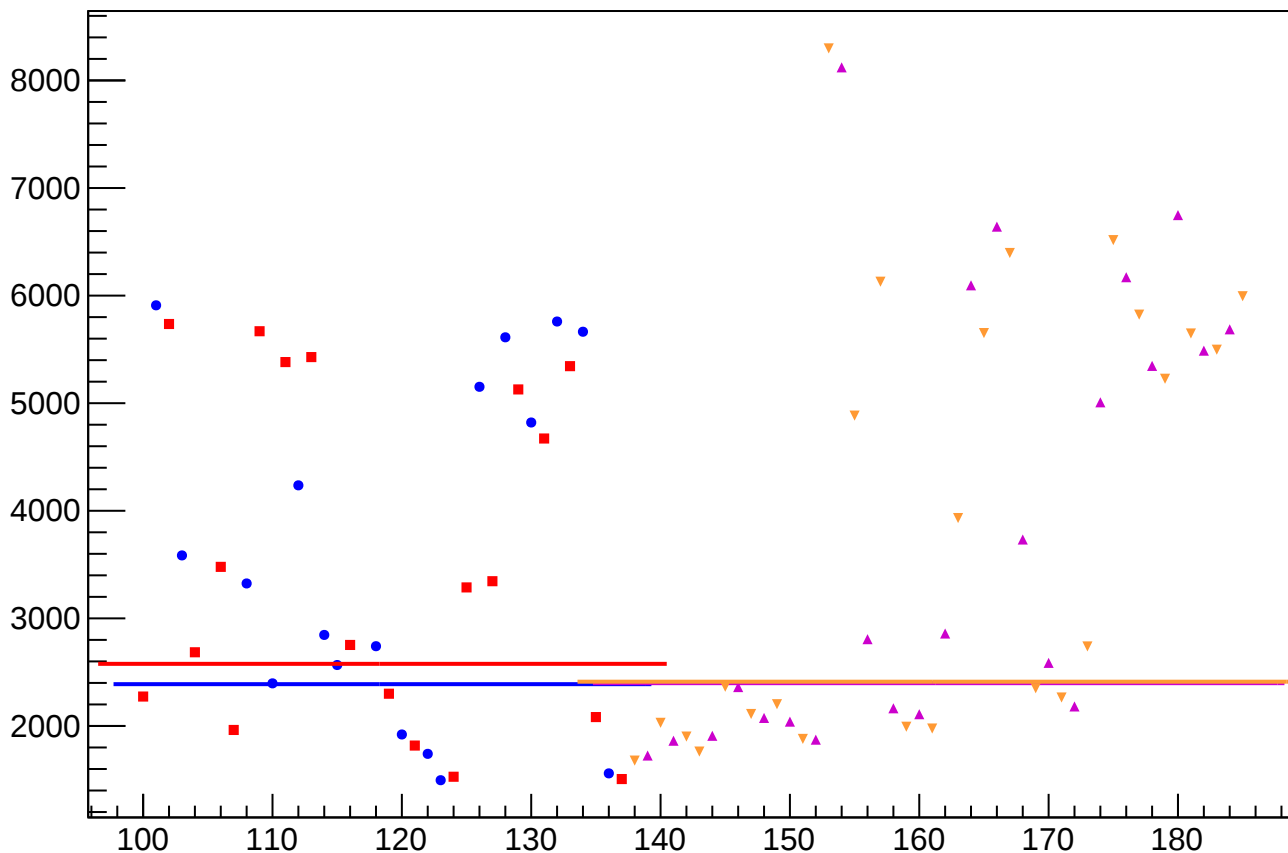
Right: -2.221 ± 0.763 $\chi^2/\text{NDF}: 966.1/35$

In: -8.285 ± 0.554 $\chi^2/\text{NDF}: 992.7/39$

Out: 3.852 ± 0.554 $\chi^2/\text{NDF}: 758.8/43$

All: -2.218 ± 0.392 $\chi^2/\text{NDF}: 1991.2/83$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2411.465 ± 0.455 $\chi^2/\text{NDF}: 6313362.5/24$

Right Out: 2577.351 ± 0.772 $\chi^2/\text{NDF}: 2358780.3/18$

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

Left: 2404.636 ± 0.323 $\chi^2/\text{NDF}: 11712736.7/47$

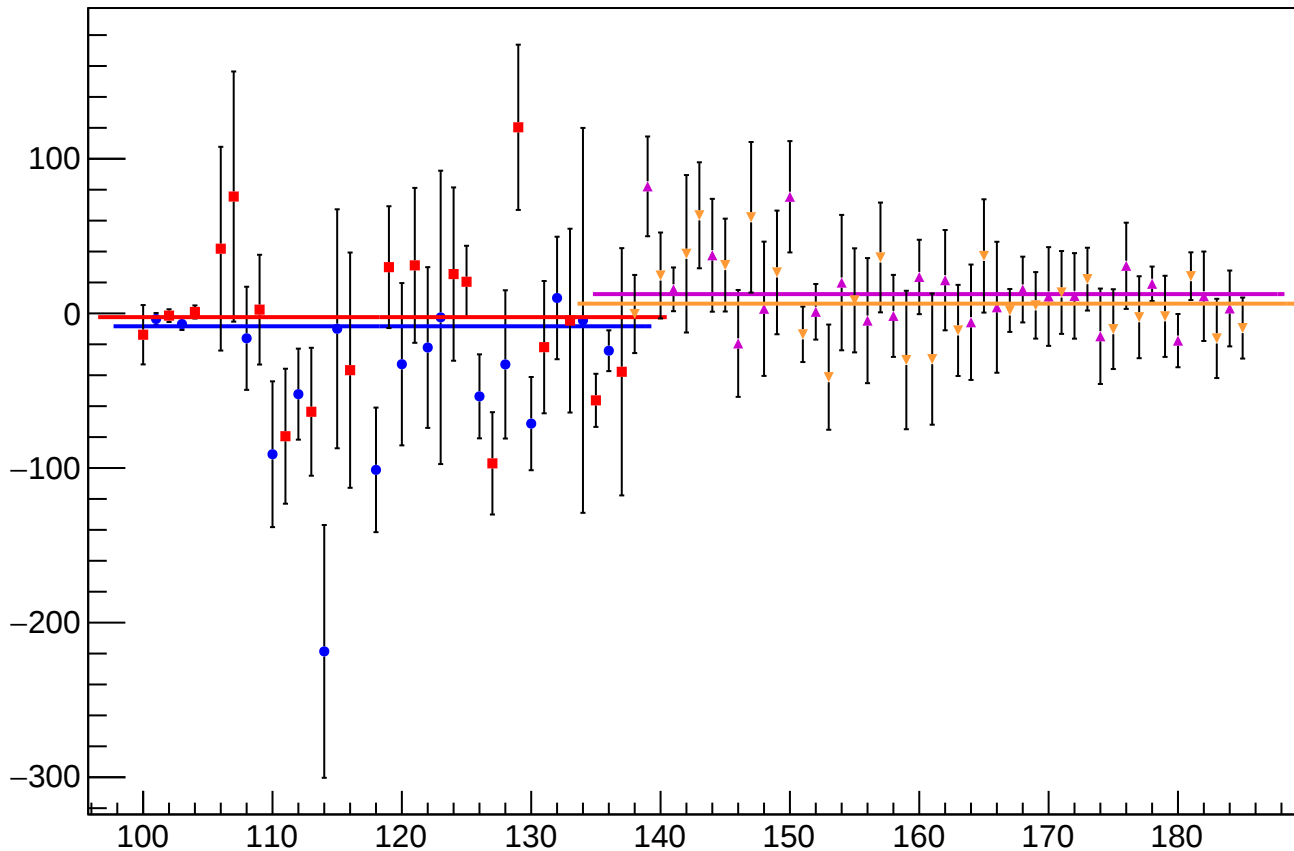
Right: 2480.778 ± 0.540 $\chi^2/\text{NDF}: 4978057.3/35$

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

Out: 2454.212 ± 0.392 $\chi^2/\text{NDF}: 8706407.8/43$

All: 2424.711 ± 0.277 $\chi^2/\text{NDF}: 16705452.2/86$

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 6.300 ± 5.084 χ^2/NDF : 16.4/24

Right Out: -2.423 ± 2.787 χ^2/NDF : 33.9/18

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

Left: 9.420 ± 3.574 χ^2/NDF : 32.5/47

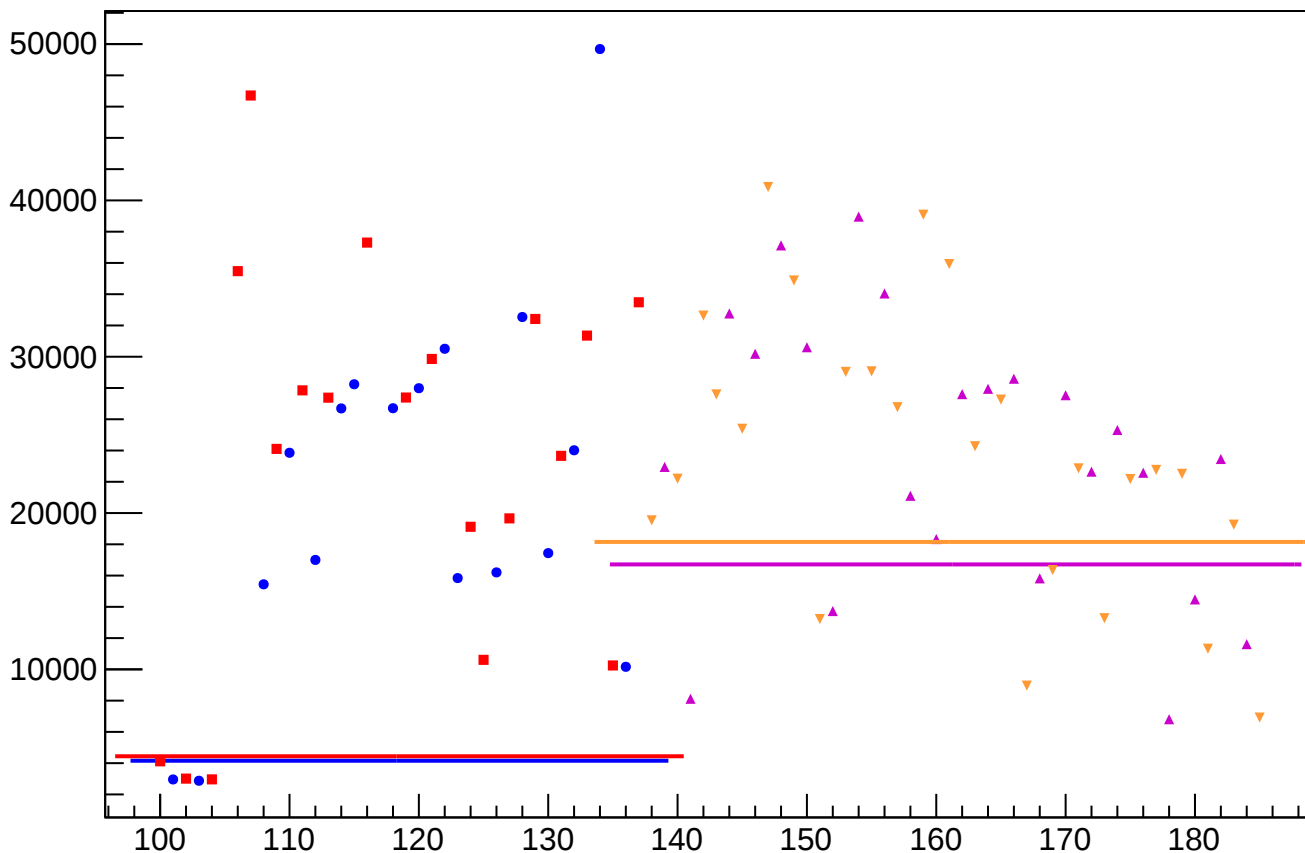
Right: -5.599 ± 1.896 χ^2/NDF : 64.6/35

In: -3.976 ± 2.301 χ^2/NDF : 57.2/39

Out: -0.407 ± 2.444 χ^2/NDF : 52.6/43

All: -2.299 ± 1.675 χ^2/NDF : 111.0/83

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4156.086+/-1.830 χ^2/NDF : 5974546.9/16

Left Out: 18152.895+/-3.595 χ^2/NDF : 5221117.6/24

Right Out: 4441.440+/-1.971 χ^2/NDF : 7399930.1/18

Left In: 16713.653+/-3.553 χ^2/NDF : 6194178.8/22

Left: 17424.907+/-2.527 χ^2/NDF : 11496368.0/47

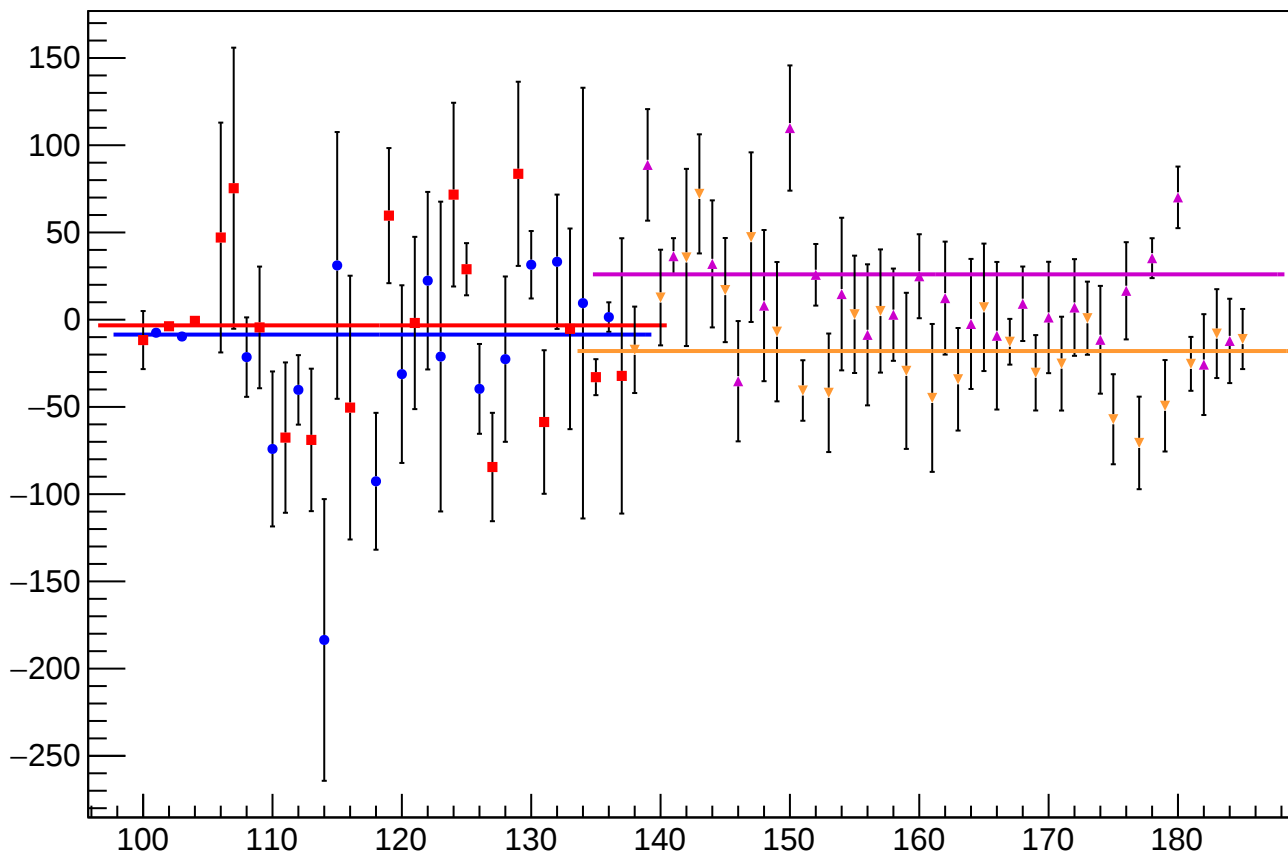
Right: 4288.220+/-1.341 χ^2/NDF : 13385734.9/35

In: 6788.658+/-1.627 χ^2/NDF : 22039372.0/39

Out: 7609.720+/-1.728 χ^2/NDF : 23806814.9/43

All: 7174.470+/-1.185 χ^2/NDF : 45965857.2/80

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -17.967 $\pm$ 4.980 χ^2/NDF : 26.4/24

Right Out: -3.248 $\pm$ 1.922 χ^2/NDF : 36.9/18

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

Left: 4.874 $\pm$ 3.452 χ^2/NDF : 99.5/47

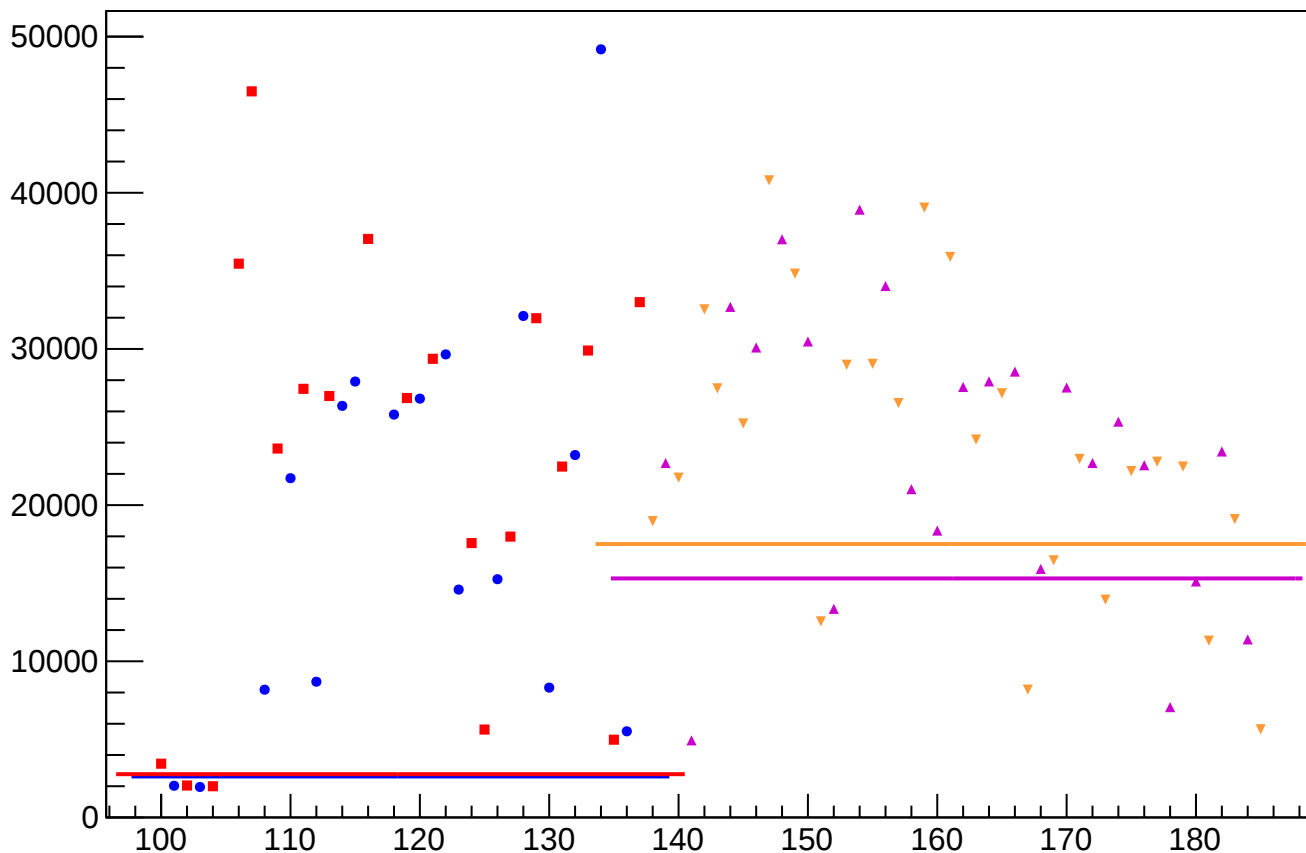
Right: -6.098 $\pm$ 1.305 χ^2/NDF : 65.0/35

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

Out: -5.156 $\pm$ 1.793 χ^2/NDF : 70.9/43

All: -4.725 $\pm$ 1.221 χ^2/NDF : 173.3/83

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 17508.623 ± 3.522 $\chi^2/\text{NDF}: 5858989.6/24$

Right Out: 2770.651 ± 1.359 $\chi^2/\text{NDF}: 7812778.8/18$

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

Left: 16363.770 ± 2.441 $\chi^2/\text{NDF}: 13783548.2/47$

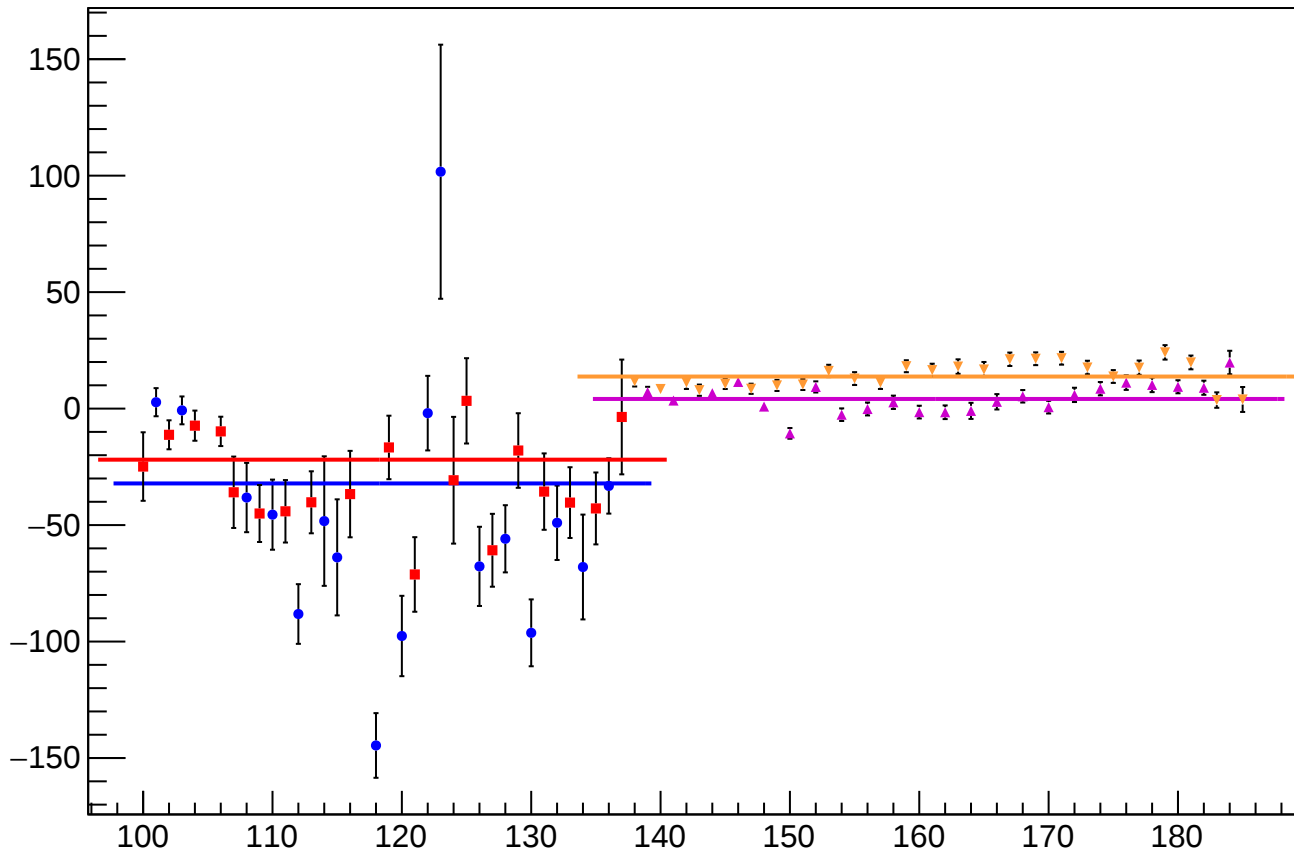
Right: 2693.290 ± 0.923 $\chi^2/\text{NDF}: 13388655.9/35$

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

Out: 4681.451 ± 1.268 $\chi^2/\text{NDF}: 28914215.1/43$

All: 4403.327 ± 0.863 $\chi^2/\text{NDF}: 54614415.5/80$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 13.763 ± 0.538 χ^2/NDF : 88.6/24

Right Out: -21.921 ± 2.672 χ^2/NDF : 43.9/18

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

Left: 9.103 ± 0.386 χ^2/NDF : 355.4/47

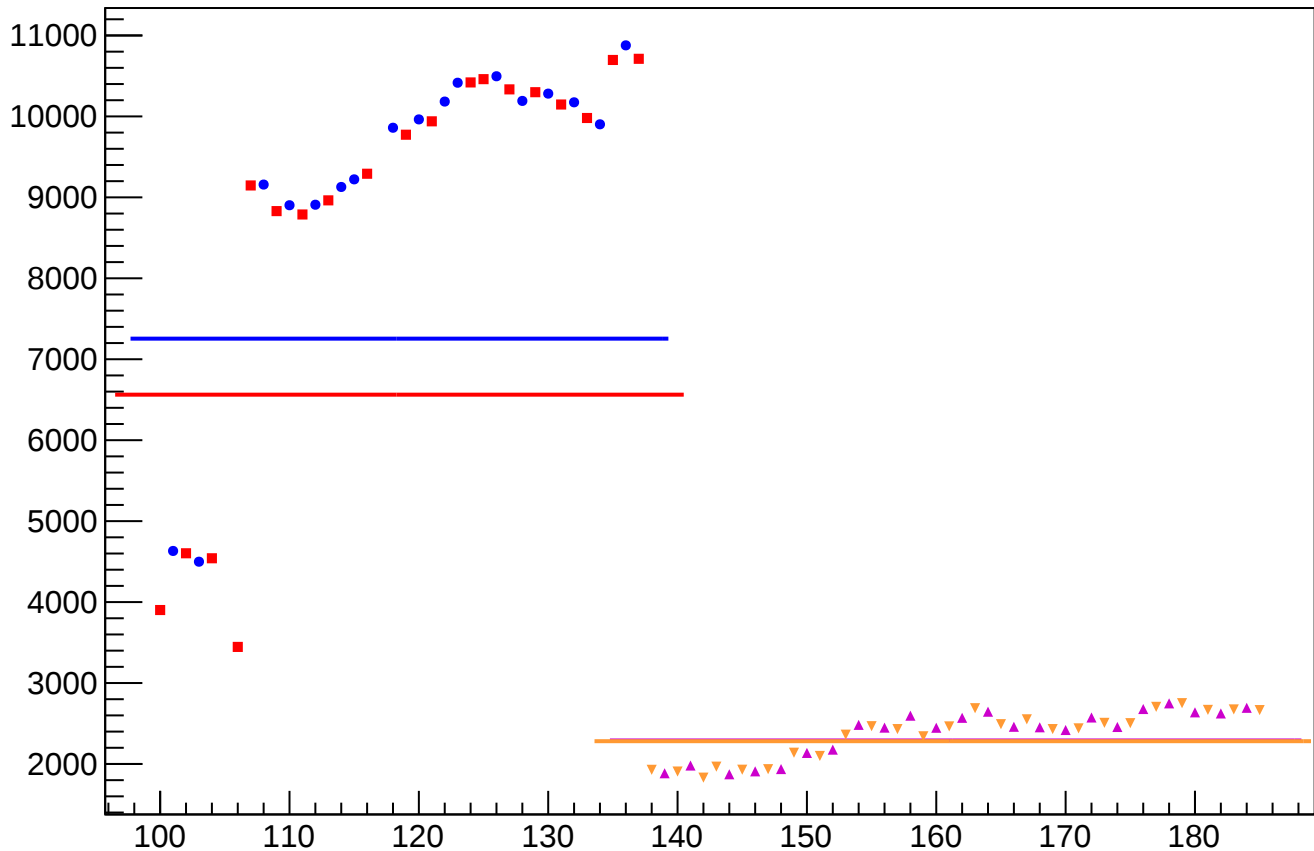
Right: -26.460 ± 1.991 χ^2/NDF : 253.7/35

In: 2.929 ± 0.545 χ^2/NDF : 457.7/39

Out: 12.374 ± 0.527 χ^2/NDF : 304.0/43

All: 7.814 ± 0.379 χ^2/NDF : 916.8/83

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7254.506 $\pm$ 2.110 χ^2 /NDF: 1633073.8/16

Left Out: 2281.358 $\pm$ 0.380 χ^2 /NDF: 598482.9/24

Right Out: 6562.403 $\pm$ 1.889 χ^2 /NDF: 2190982.1/18

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

Left: 2285.766 $\pm$ 0.273 χ^2 /NDF: 1189032.7/47

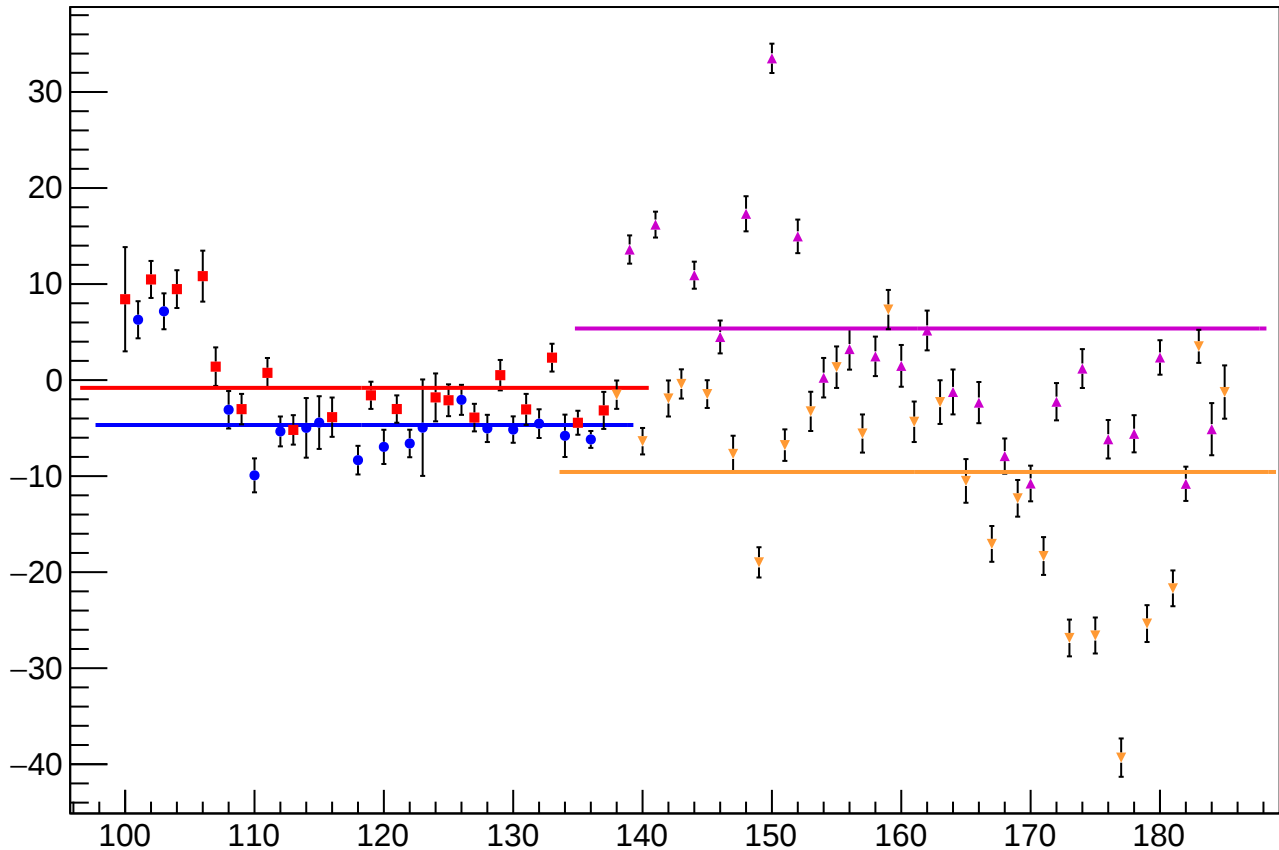
Right: 6870.261 $\pm$ 1.408 χ^2 /NDF: 3883763.4/35

In: 2456.258 $\pm$ 0.386 χ^2 /NDF: 7571049.7/39

Out: 2447.981 $\pm$ 0.373 χ^2 /NDF: 7725356.2/43

All: 2451.978 $\pm$ 0.268 χ^2 /NDF: 15296644.1/8

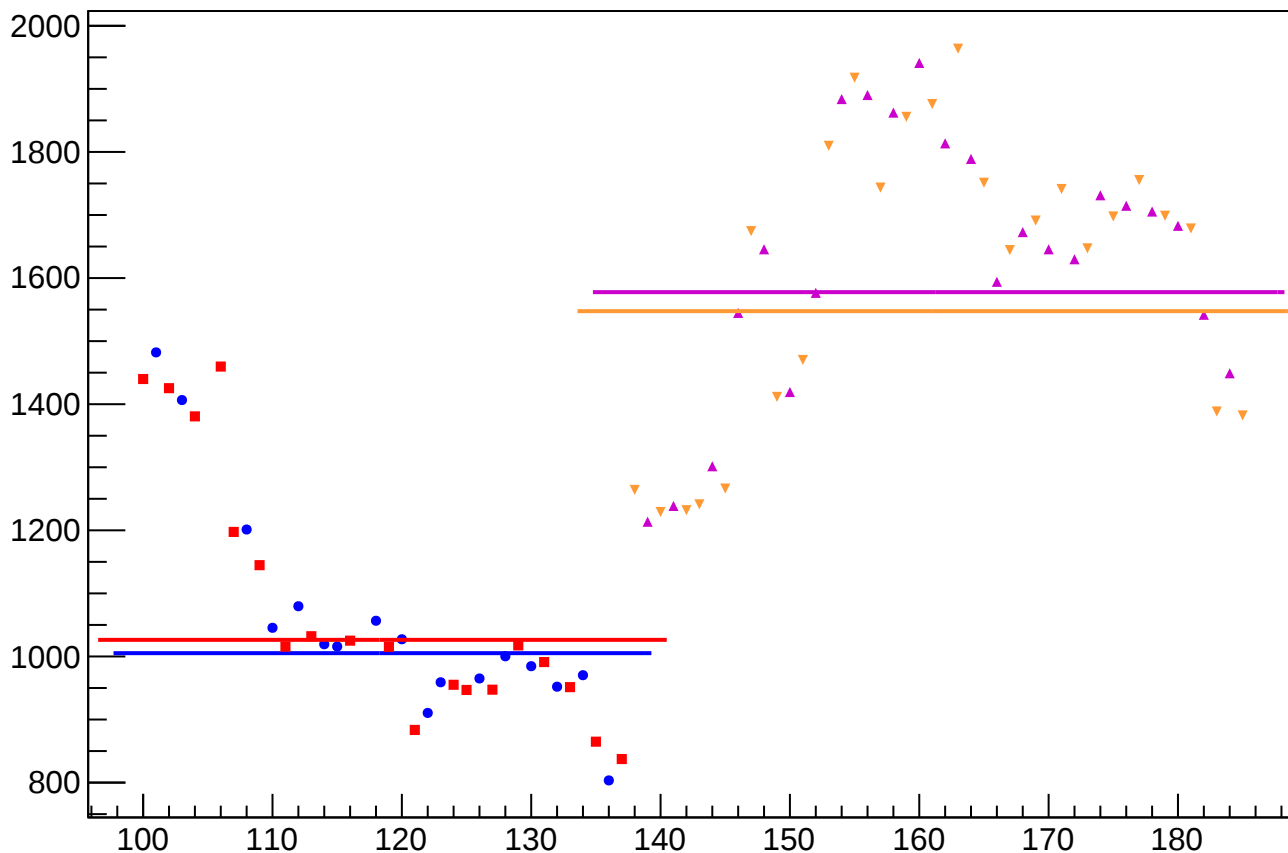
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.677 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -9.568 ± 0.366 $\chi^2/\text{NDF}: 884.1/24$
 Right Out: -0.810 ± 0.389 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 5.372 ± 0.383 $\chi^2/\text{NDF}: 869.8/22$

Left: -2.426 ± 0.265 $\chi^2/\text{NDF}: 2548.5/47$
 Right: -2.723 ± 0.277 $\chi^2/\text{NDF}: 270.1/35$
 In: 0.483 ± 0.274 $\chi^2/\text{NDF}: 1302.5/39$
 Out: -5.453 ± 0.267 $\chi^2/\text{NDF}: 1276.2/43$
 All: -2.568 ± 0.191 $\chi^2/\text{NDF}: 2819.2/83$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1547.544+/-0.259 χ^2/NDF : 832713.1/24

Right Out: 1026.341+/-0.275 χ^2/NDF : 332964.3/18

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

Left: 1561.953+/-0.187 χ^2/NDF : 1464587.6/47

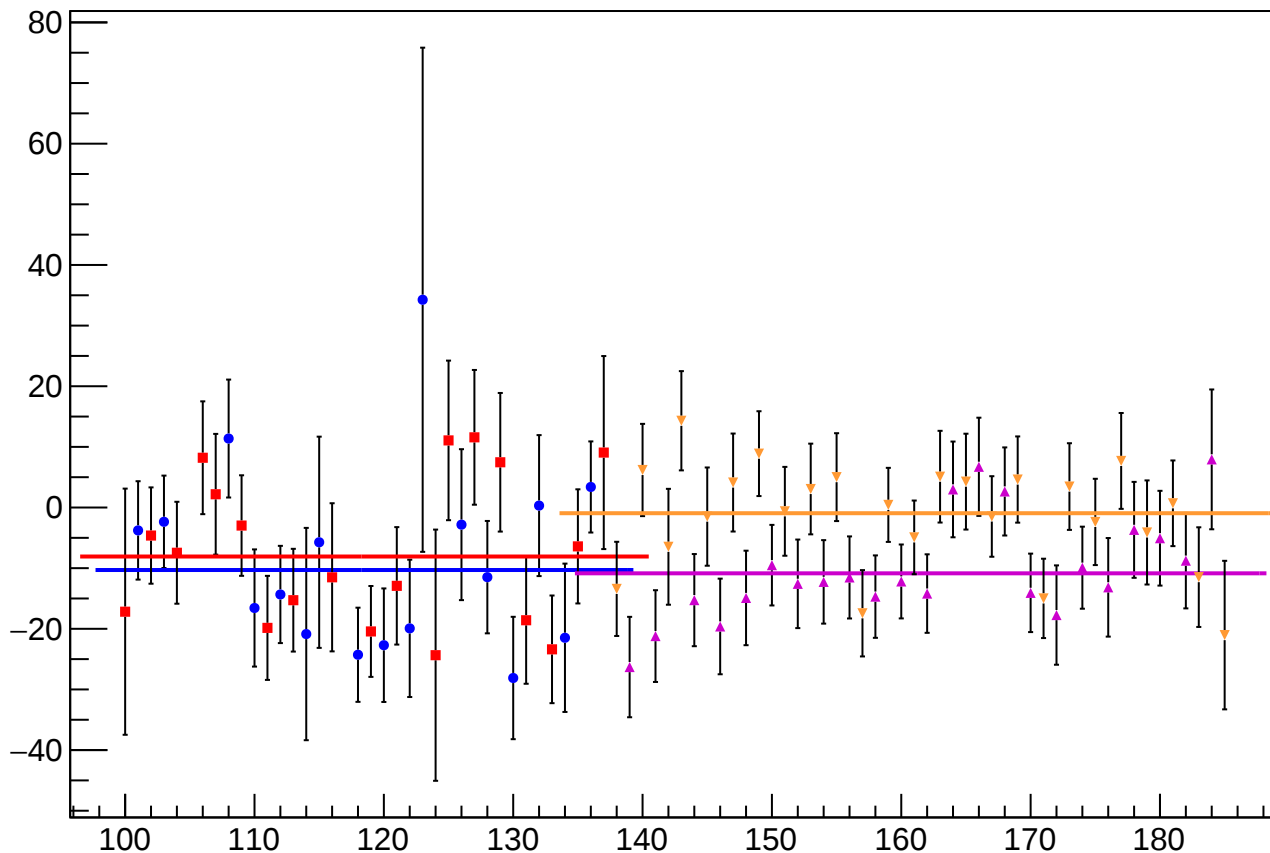
Right: 1015.898+/-0.196 χ^2/NDF : 697807.1/35

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

Out: 1302.626+/-0.189 χ^2/NDF : 3066736.7/43

All: 1300.939+/-0.135 χ^2/NDF : 6229273.9/83

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.305 ± 2.412 χ^2/NDF : 23.2/16

Left Out: -0.938 ± 1.491 χ^2/NDF : 28.9/24

Right Out: -8.079 ± 2.281 χ^2/NDF : 23.4/18

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

Left: -5.730 ± 1.072 χ^2/NDF : 74.6/47

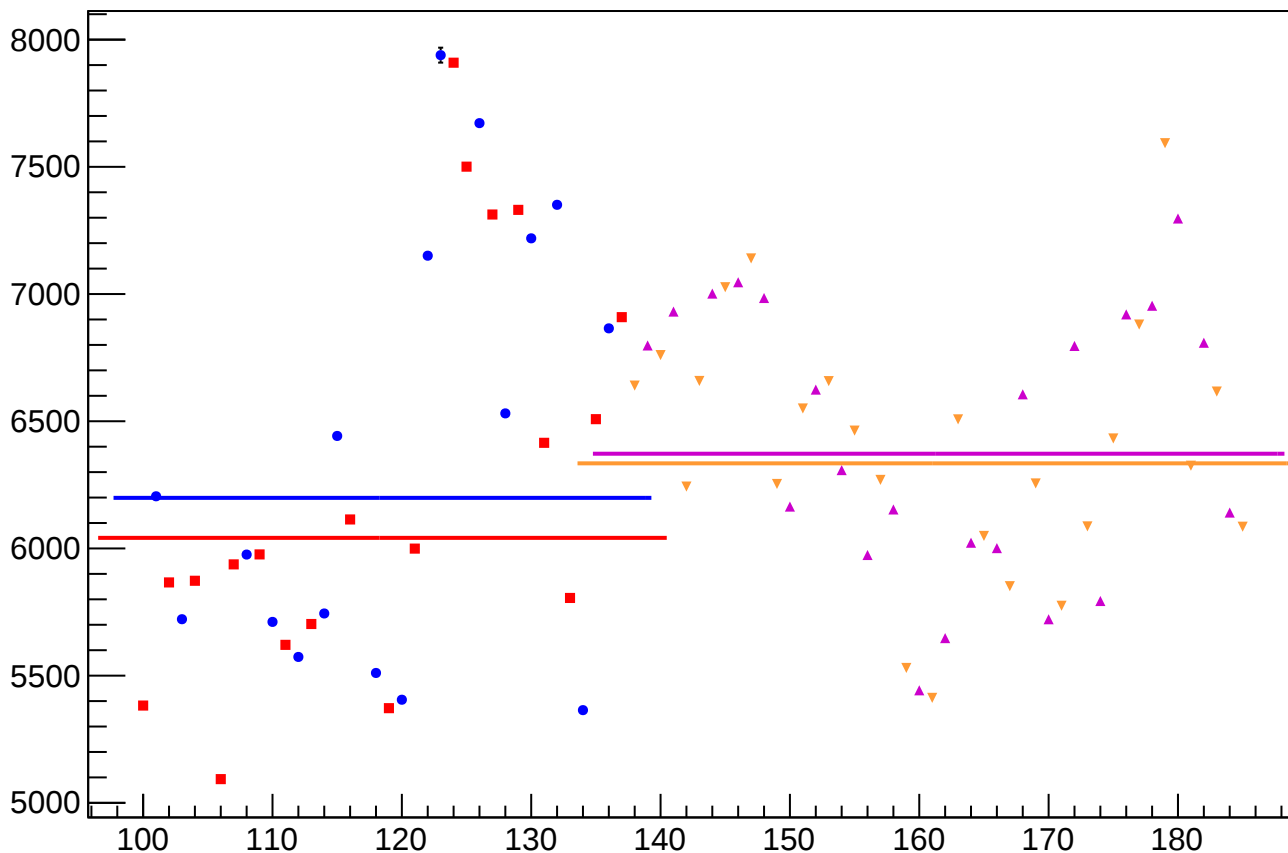
Right: -9.130 ± 1.657 χ^2/NDF : 47.1/35

In: -10.693 ± 1.299 χ^2/NDF : 47.6/39

Out: -3.076 ± 1.248 χ^2/NDF : 59.2/43

All: -6.733 ± 0.900 χ^2/NDF : 124.6/83

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6334.503+/-1.054 χ^2/NDF : 222041.5/24

Right Out: 6041.626+/-1.613 χ^2/NDF : 156387.0/18

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

Left: 6352.797+/-0.758 χ^2/NDF : 469921.2/47

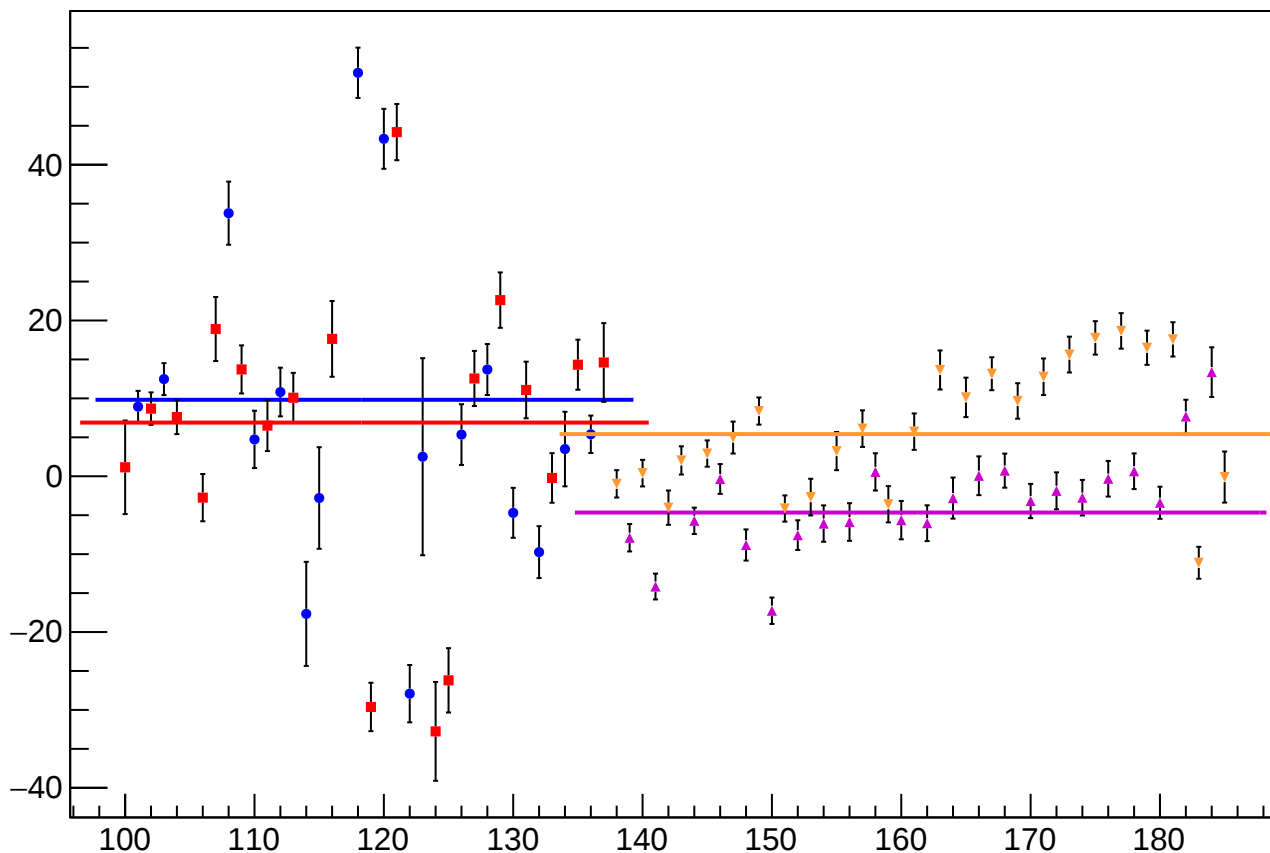
Right: 6115.860+/-1.172 χ^2/NDF : 332181.0/35

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

Out: 6246.795+/-0.883 χ^2/NDF : 401532.7/43

All: 6282.910+/-0.636 χ^2/NDF : 830930.1/83

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.819 ± 0.798 $\chi^2/\text{NDF}: 472.6/16$

Left Out: 5.411 ± 0.423 $\chi^2/\text{NDF}: 360.0/24$

Right Out: 6.893 ± 0.766 $\chi^2/\text{NDF}: 415.2/18$

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

Left: 0.618 ± 0.306 $\chi^2/\text{NDF}: 826.8/47$

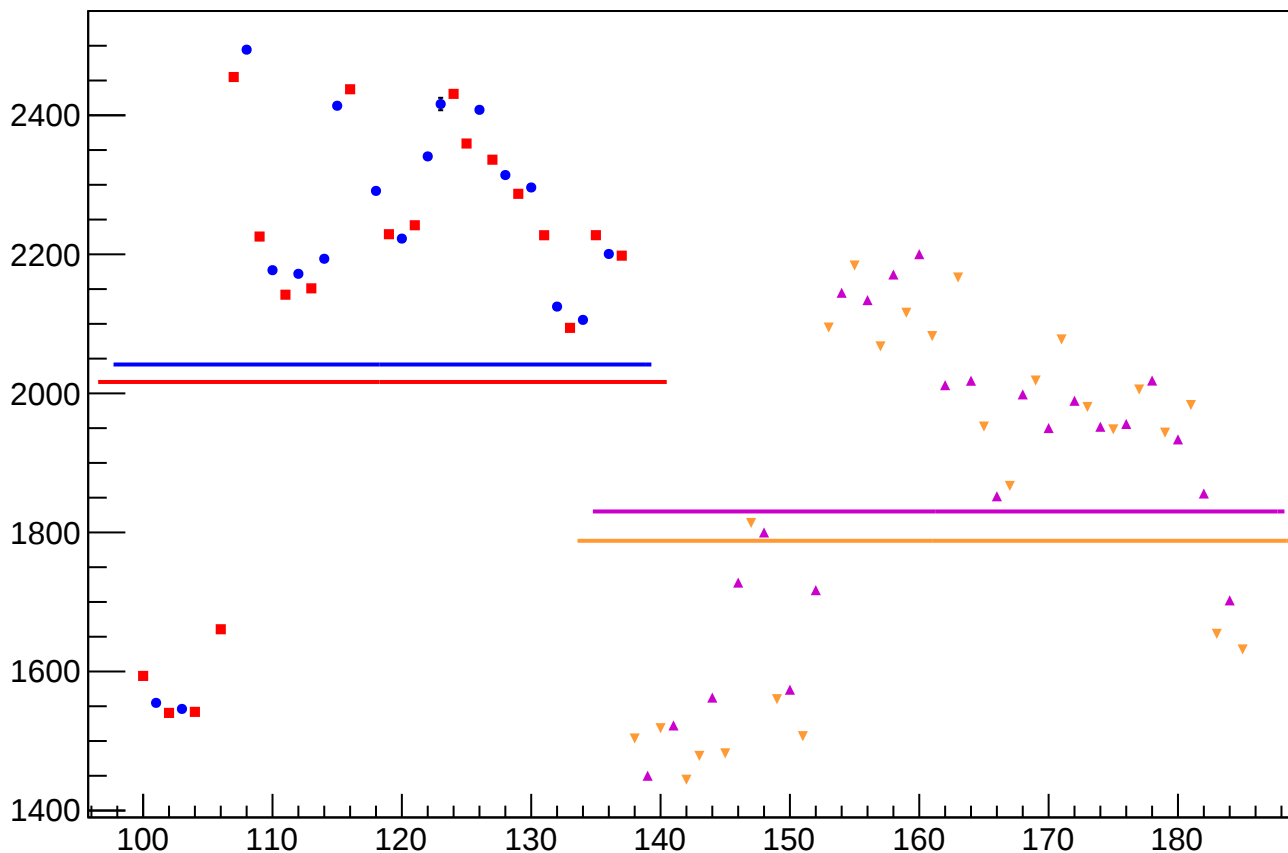
Right: 8.296 ± 0.553 $\chi^2/\text{NDF}: 894.8/35$

In: -1.243 ± 0.388 $\chi^2/\text{NDF}: 920.7/39$

Out: 5.757 ± 0.370 $\chi^2/\text{NDF}: 778.1/43$

All: 2.419 ± 0.268 $\chi^2/\text{NDF}: 1869.4/83$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1788.003 $\pm$ 0.299 χ^2 /NDF: 740696.9/24

Right Out: 2016.419 $\pm$ 0.542 χ^2 /NDF: 375150.5/18

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

Left: 1808.073 $\pm$ 0.216 χ^2 /NDF: 1258563.6/47

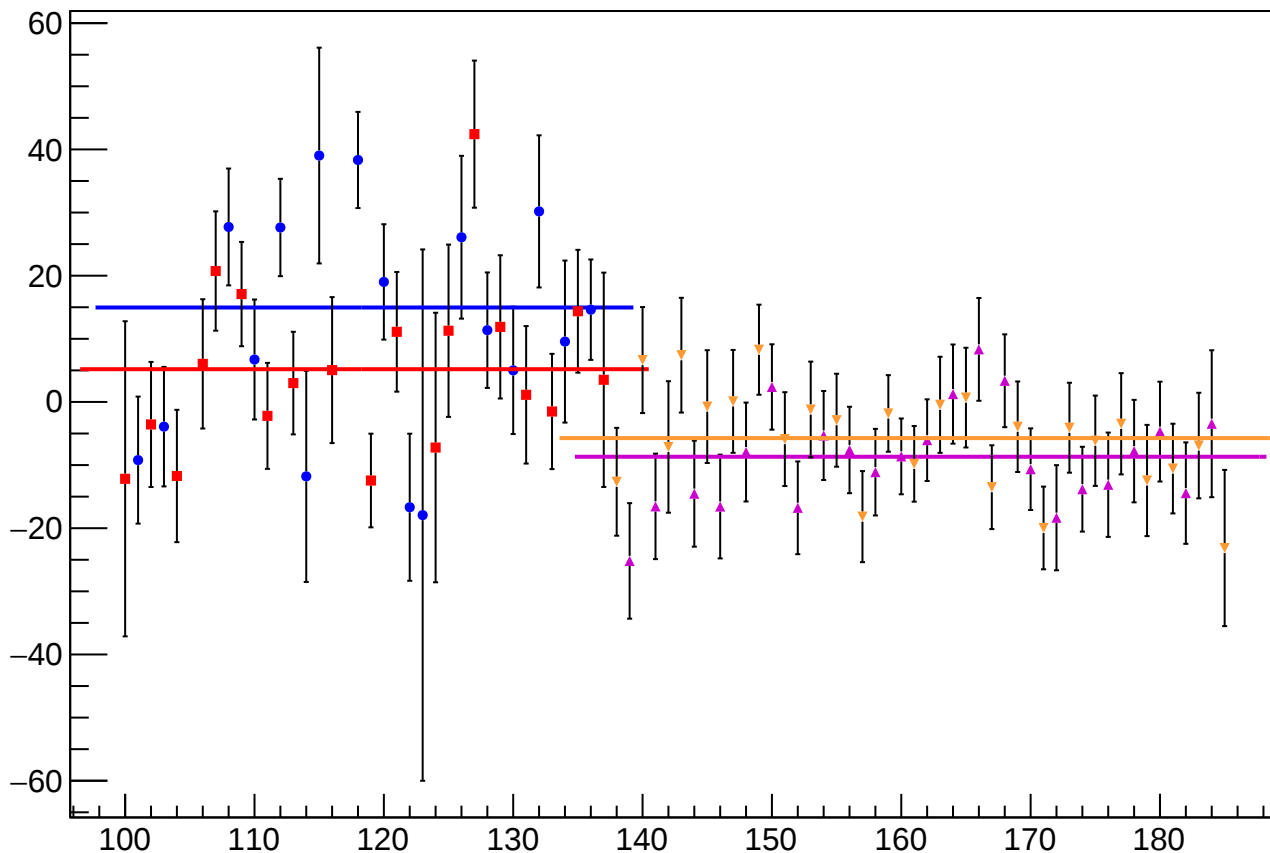
Right: 2028.464 $\pm$ 0.391 χ^2 /NDF: 732406.2/35

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

Out: 1841.326 $\pm$ 0.262 χ^2 /NDF: 1252236.3/43

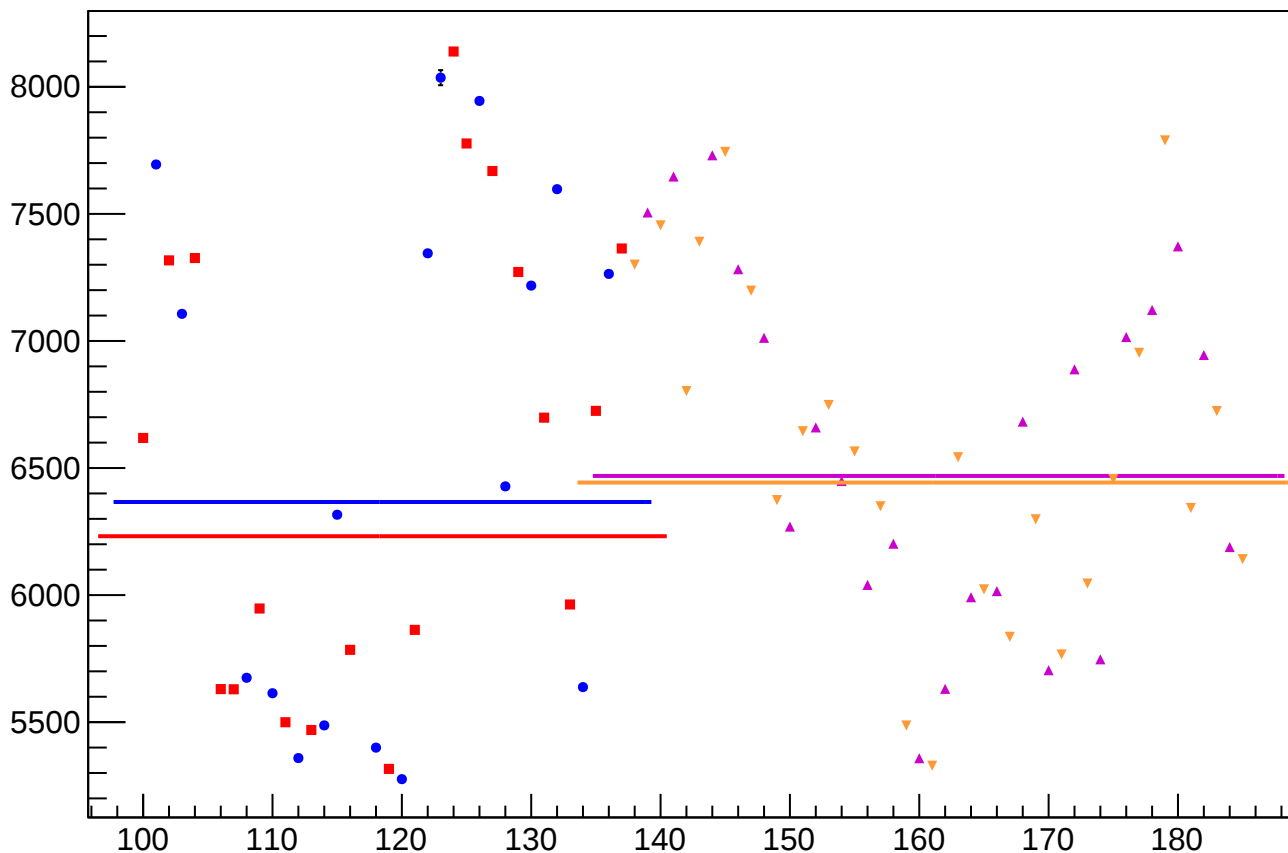
All: 1859.777 $\pm$ 0.189 χ^2 /NDF: 2234521.7/83

diff_bpm0l06X_mean vs Slug, Sign Corrected



Left: -7.158 ± 1.093 $\chi^2/\text{NDF}: 48.2/47$
 Right: 9.813 ± 1.713 $\chi^2/\text{NDF}: 77.2/35$
 In: -1.952 ± 1.328 $\chi^2/\text{NDF}: 127.3/39$
 Out: -2.520 ± 1.279 $\chi^2/\text{NDF}: 67.8/43$
 All: -2.247 ± 0.921 $\chi^2/\text{NDF}: 195.2/83$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.340 ± 1.760 $\chi^2/\text{NDF}: 285567.3/16$

Left Out: 6442.907 ± 1.076 $\chi^2/\text{NDF}: 367442.4/24$

Right Out: 6231.657 ± 1.669 $\chi^2/\text{NDF}: 241308.4/18$

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

Left: 6455.495 ± 0.773 $\chi^2/\text{NDF}: 751050.4/47$

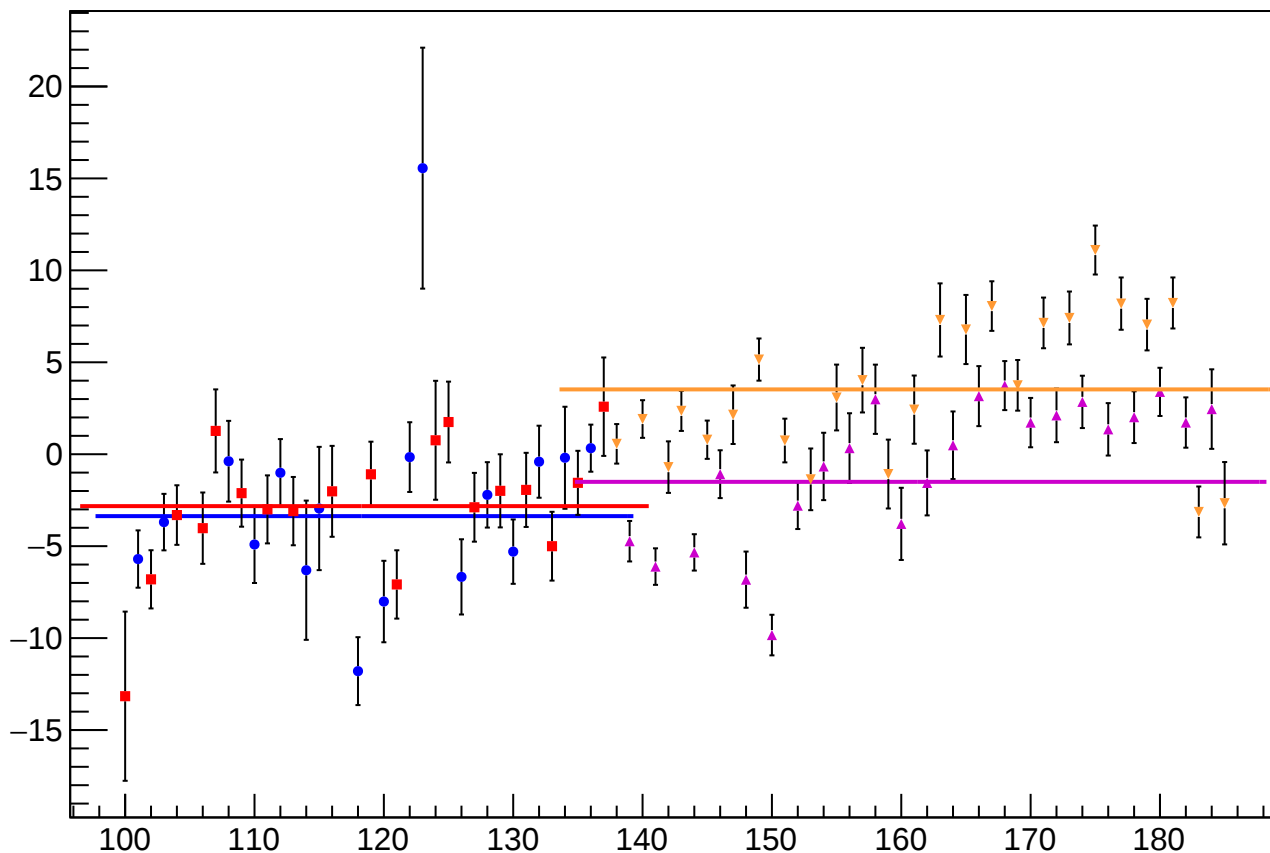
Right: 6295.395 ± 1.211 $\chi^2/\text{NDF}: 529958.8/35$

In: 6439.705 ± 0.939 $\chi^2/\text{NDF}: 671320.6/39$

Out: 6380.859 ± 0.904 $\chi^2/\text{NDF}: 620070.7/43$

All: 6409.167 ± 0.651 $\chi^2/\text{NDF}: 1293428.3/83$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

Left Out: 3.525 ± 0.278 χ^2/NDF : 174.4/24

Right Out: -2.823 ± 0.457 χ^2/NDF : 33.5/18

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

Left: 1.124 ± 0.201 χ^2/NDF : 533.4/47

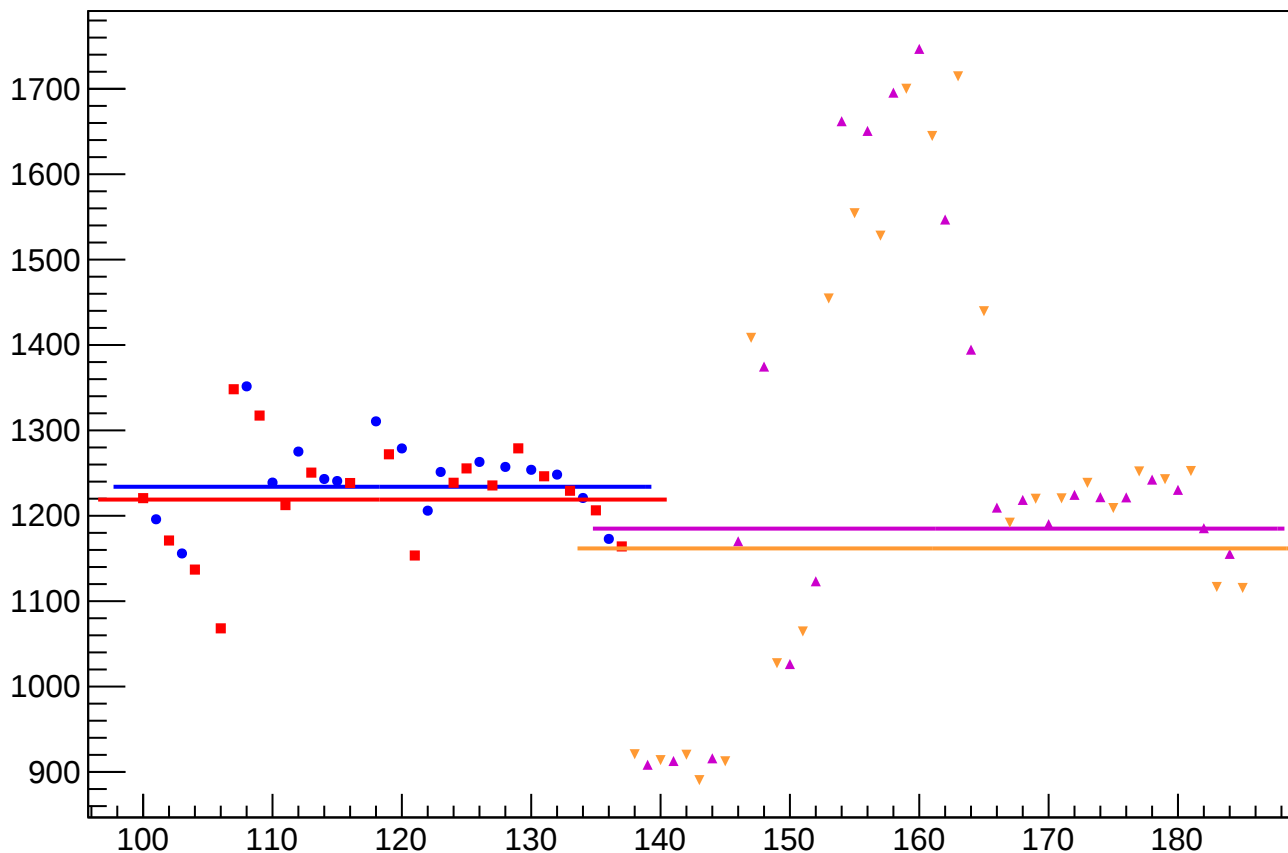
Right: -3.084 ± 0.330 χ^2/NDF : 93.8/35

In: -2.008 ± 0.248 χ^2/NDF : 273.4/39

Out: 1.813 ± 0.237 χ^2/NDF : 348.7/43

All: -0.014 ± 0.172 χ^2/NDF : 745.9/83

diff_bpm0l06Y_rms vs Slug, Sign Corrected



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

Left Out: 1161.768 $\pm$ 0.196 χ^2/NDF :1390071.7/24

Right Out: 1218.985 $\pm$ 0.323 χ^2/NDF : 40373.1/18

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

Left: 1172.846 $\pm$ 0.142 χ^2/NDF : 2587159.9/47

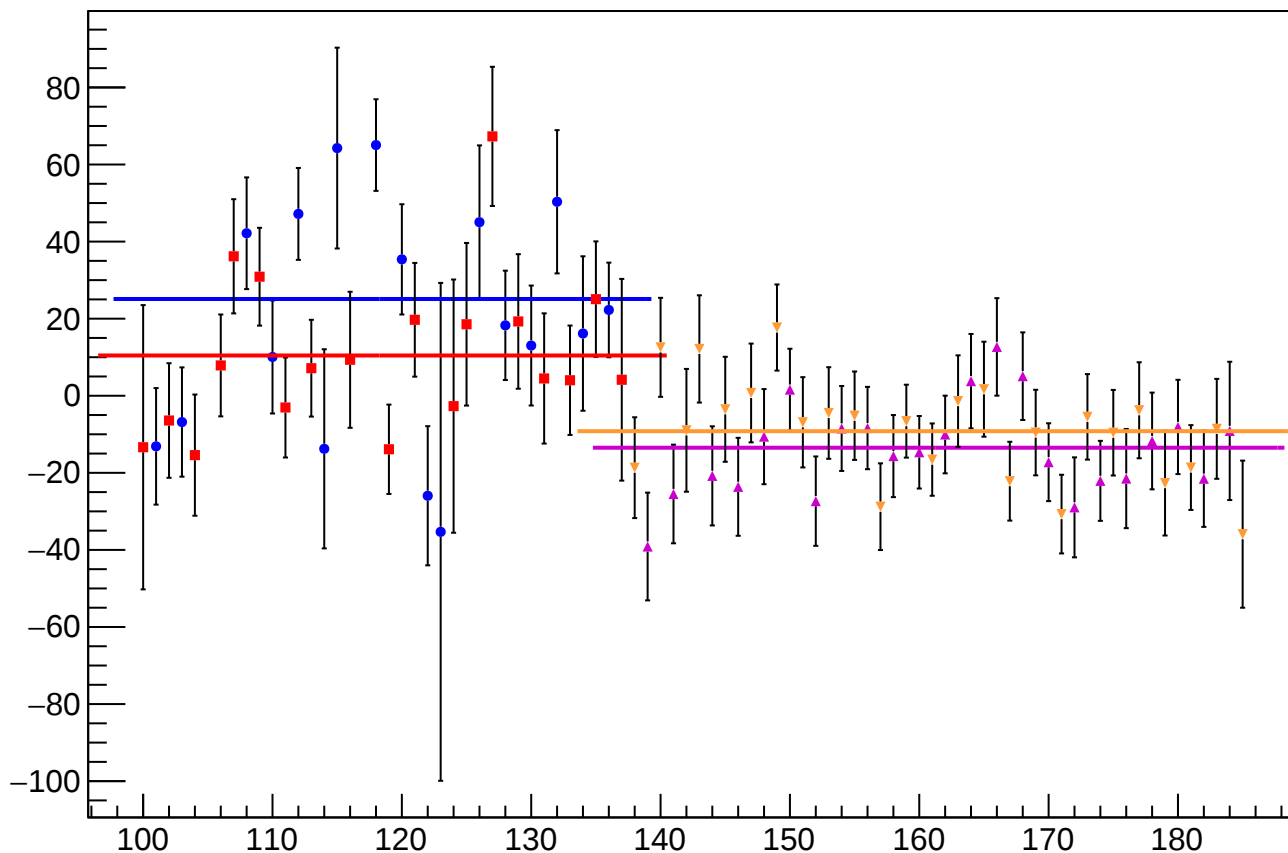
Right: 1226.173 $\pm$ 0.233 χ^2/NDF : 64961.9/35

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

Out: 1177.205 $\pm$ 0.168 χ^2/NDF :1453323.3/43

All: 1187.272 $\pm$ 0.121 χ^2/NDF : 2690261.6/83

diff_bpm0l07X_mean vs Slug, Sign Corrected



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

Left Out: -9.195 ± 2.364 $\chi^2/\text{NDF}: 27.6/24$

Right Out: 10.450 ± 3.598 $\chi^2/\text{NDF}: 27.8/18$

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

Left: -11.269 ± 1.699 $\chi^2/\text{NDF}: 50.8/47$

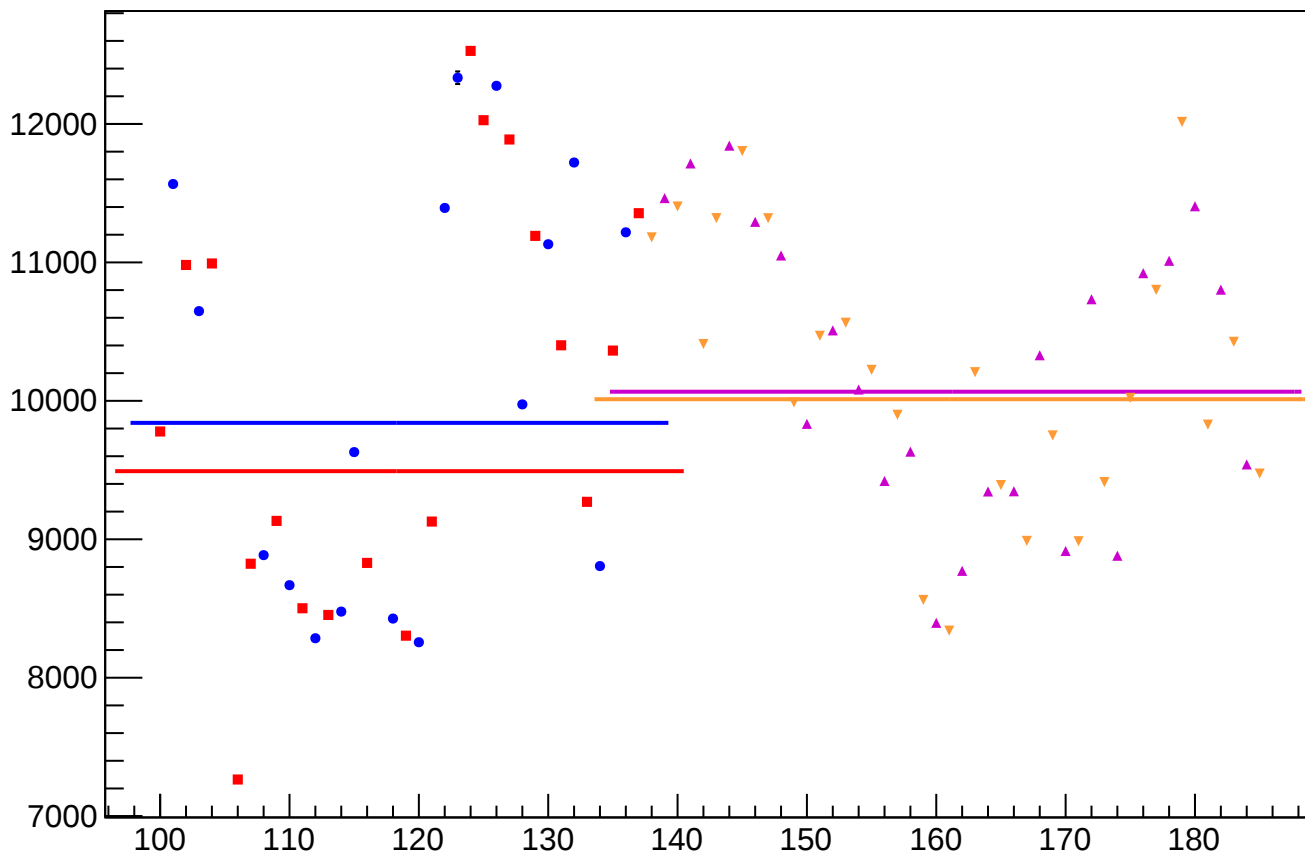
Right: 17.296 ± 2.627 $\chi^2/\text{NDF}: 82.1/35$

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

Out: -3.272 ± 1.976 $\chi^2/\text{NDF}: 76.3/43$

All: -2.846 ± 1.427 $\chi^2/\text{NDF}: 216.2/83$

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10011.683 ± 1.672 $\chi^2/\text{NDF}: 341062.6/24$

Right Out: 9491.994 ± 2.544 $\chi^2/\text{NDF}: 274580.8/18$

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

Left: 10037.908 ± 1.201 $\chi^2/\text{NDF}: 699440.3/47$

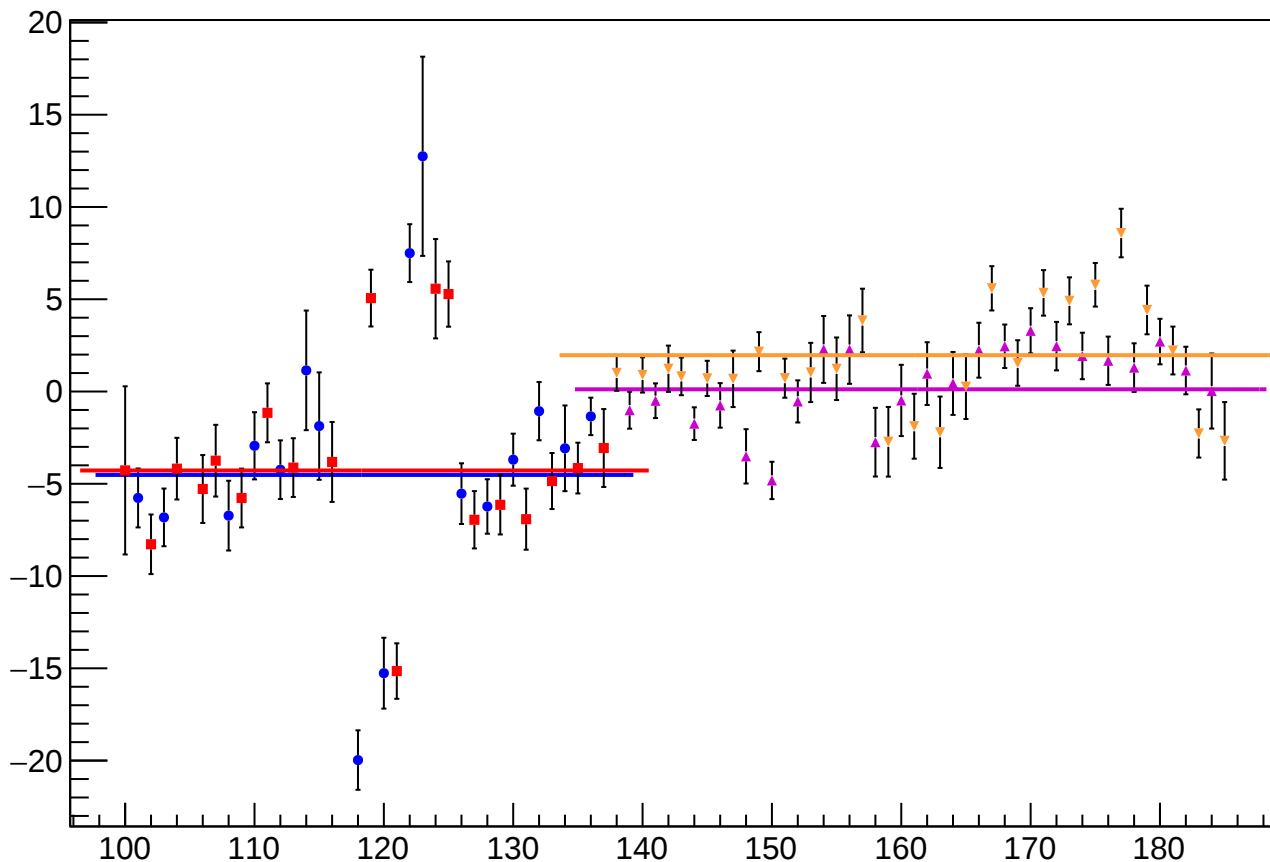
Right: 9654.969 ± 1.858 $\chi^2/\text{NDF}: 542472.7/35$

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

Out: 9854.994 ± 1.397 $\chi^2/\text{NDF}: 644783.0/43$

All: 9924.987 ± 1.009 $\chi^2/\text{NDF}: 1271879.9/83$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 1.968 ± 0.256 $\chi^2/\text{NDF}: 102.7/24$

Right Out: -4.279 ± 0.395 $\chi^2/\text{NDF}: 150.4/18$

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

Left: 1.088 ± 0.185 $\chi^2/\text{NDF}: 195.1/47$

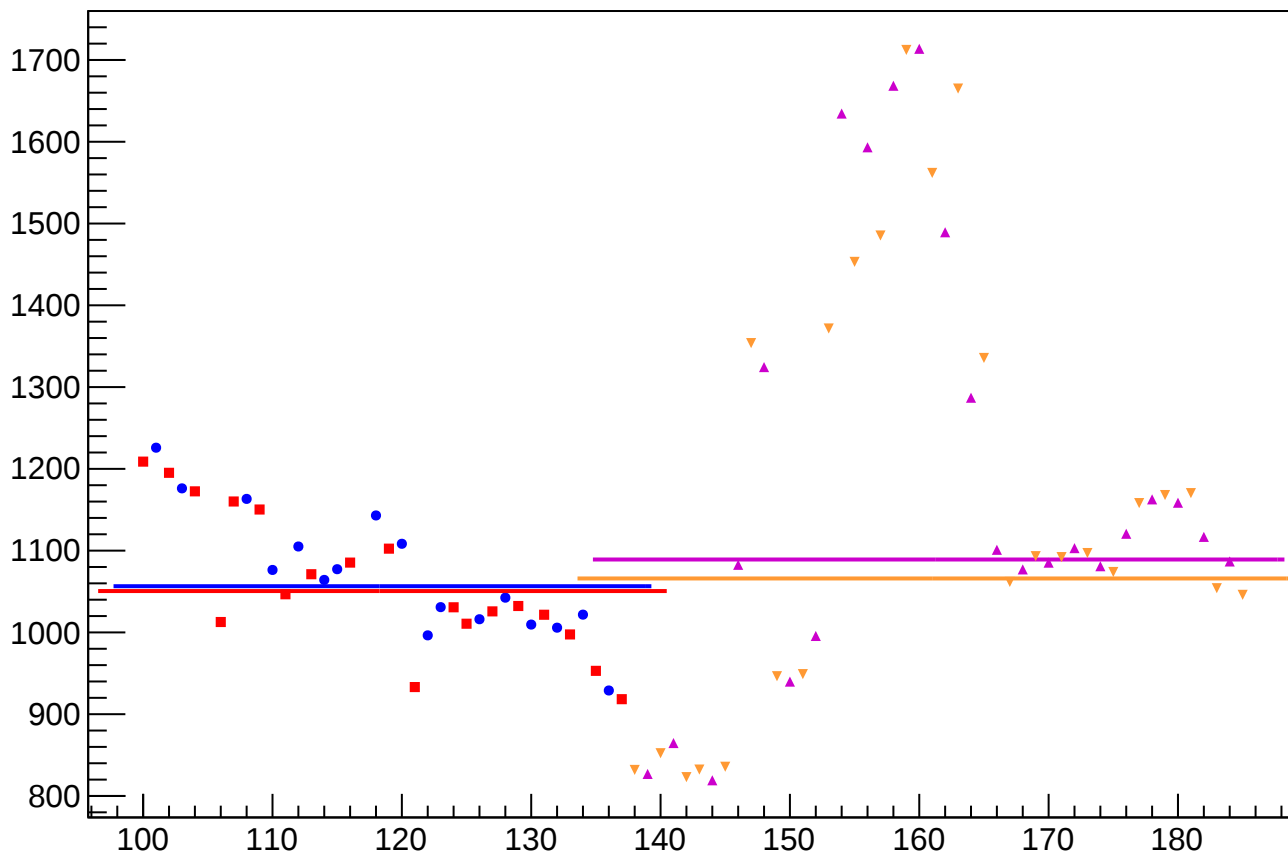
Right: -4.395 ± 0.284 $\chi^2/\text{NDF}: 368.8/35$

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

Out: 0.116 ± 0.215 $\chi^2/\text{NDF}: 429.5/43$

All: -0.551 ± 0.155 $\chi^2/\text{NDF}: 825.3/83$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.494+/-0.289 χ^2/NDF : 90759.5/16

Left Out: 1065.972+/-0.181 χ^2/NDF :1600487.2/24

Right Out: 1050.578+/-0.279 χ^2/NDF : 82328.7/18

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

Left: 1077.009+/-0.131 χ^2/NDF : 3038765.0/47

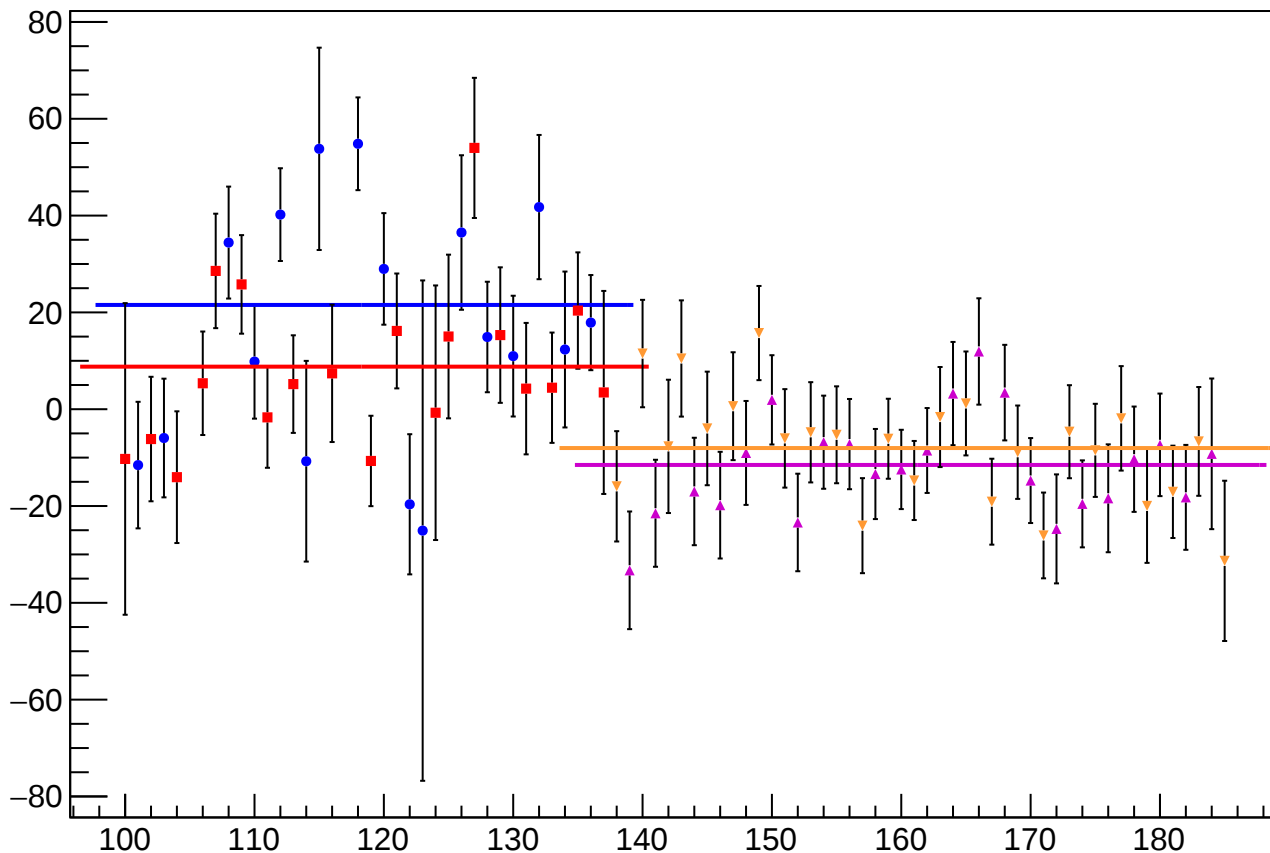
Right: 1053.431+/-0.201 χ^2/NDF : 173304.9/35

In: 1079.305+/-0.159 χ^2/NDF :1530149.3/39

Out: 1061.409+/-0.152 χ^2/NDF :1684957.2/43

All: 1069.962+/-0.110 χ^2/NDF : 3221738.4/83

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.541 $\pm$ 3.116 χ^2 /NDF: 47.9/16

Left Out: -8.023 $\pm$ 2.054 χ^2 /NDF:27.5/24

Right Out: 8.792 $\pm$ 2.915 χ^2 /NDF: 27.6/18

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

Left: -9.712 $\pm$ 1.476 χ^2 /NDF: 49.9/47

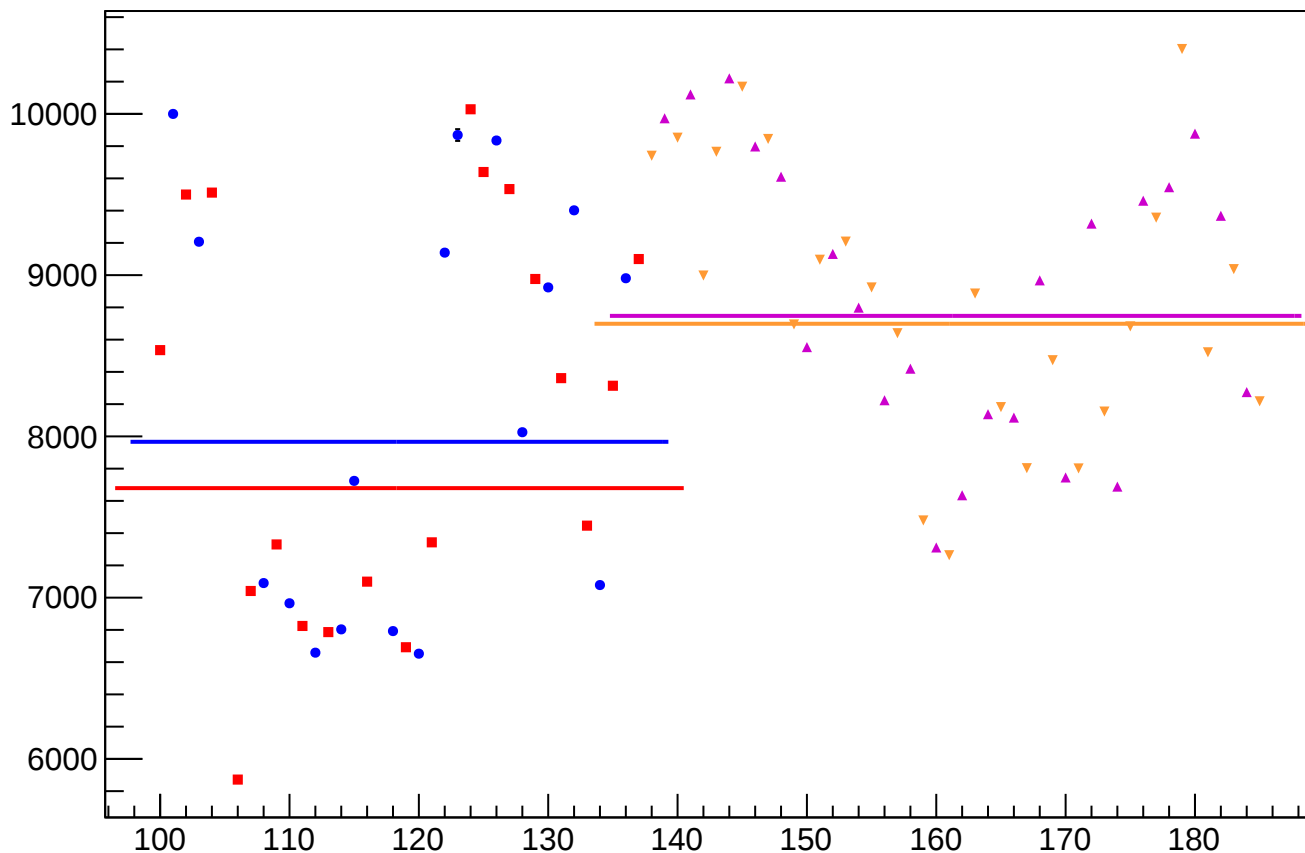
Right: 14.742 $\pm$ 2.129 χ^2 /NDF: 84.4/35

In: -1.039 $\pm$ 1.754 χ^2 /NDF:145.8/39

Out: -2.445 $\pm$ 1.679 χ^2 /NDF:77.3/43

All: -1.773 $\pm$ 1.213 χ^2 /NDF: 223.4/83

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.450 ± 2.203 $\chi^2/\text{NDF}: 295660.2/16$

Left Out: 8698.450 ± 1.452 $\chi^2/\text{NDF}: 329209.0/24$

Right Out: 7679.131 ± 2.061 $\chi^2/\text{NDF}: 313051.7/18$

Left In: 8747.415 ± 1.501 $\chi^2/\text{NDF}: 347110.4/22$

Left: 8722.127 ± 1.044 $\chi^2/\text{NDF}: 676869.2/47$

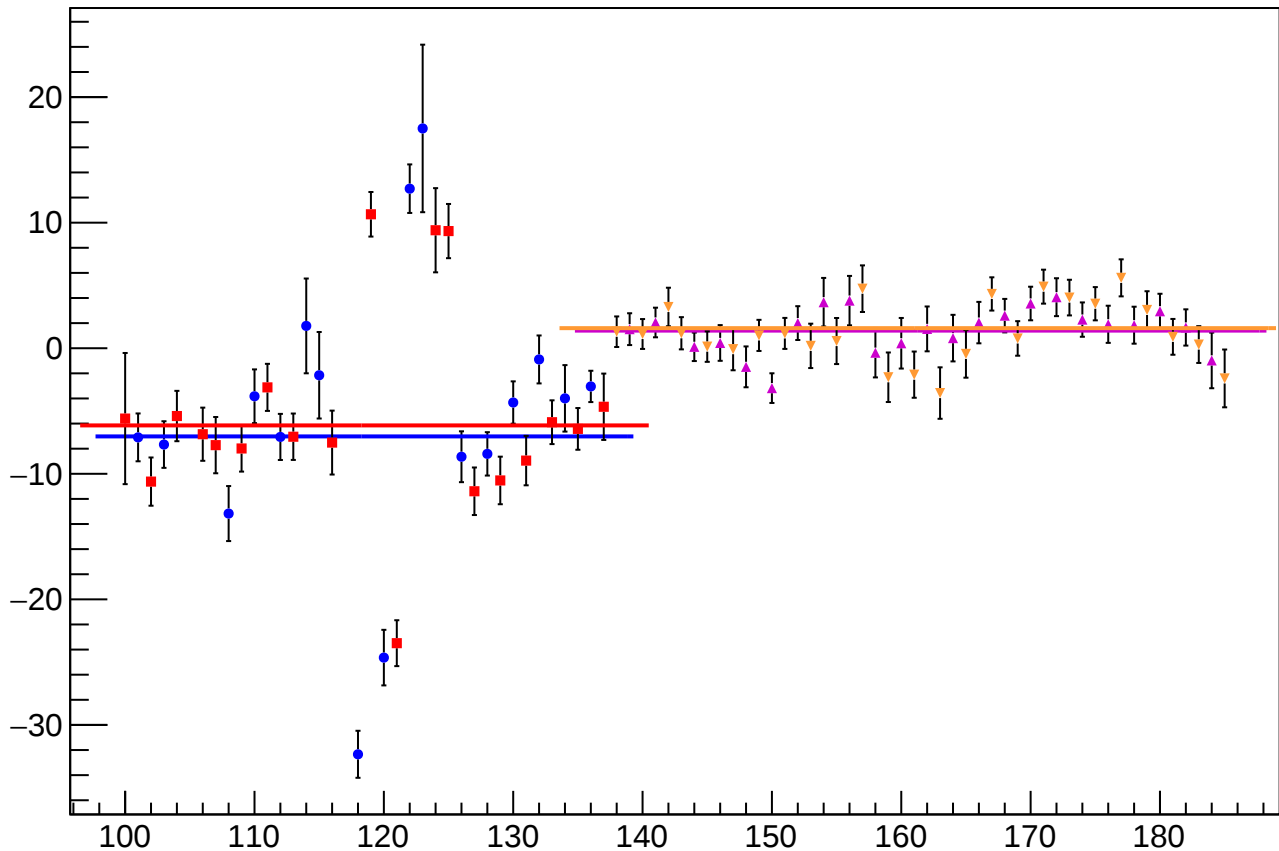
Right: 7813.225 ± 1.505 $\chi^2/\text{NDF}: 617781.0/35$

In: 8499.913 ± 1.240 $\chi^2/\text{NDF}: 728594.0/39$

Out: 8360.337 ± 1.187 $\chi^2/\text{NDF}: 805707.9/43$

All: 8427.065 ± 0.858 $\chi^2/\text{NDF}: 1540911.3/83$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.022 ± 0.487 $\chi^2/\text{NDF}: 407.3/16$

Left Out: 1.599 ± 0.295 $\chi^2/\text{NDF}: 51.7/24$

Right Out: -6.146 ± 0.467 $\chi^2/\text{NDF}: 278.4/18$

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

Left: 1.506 ± 0.213 $\chi^2/\text{NDF}: 86.0/47$

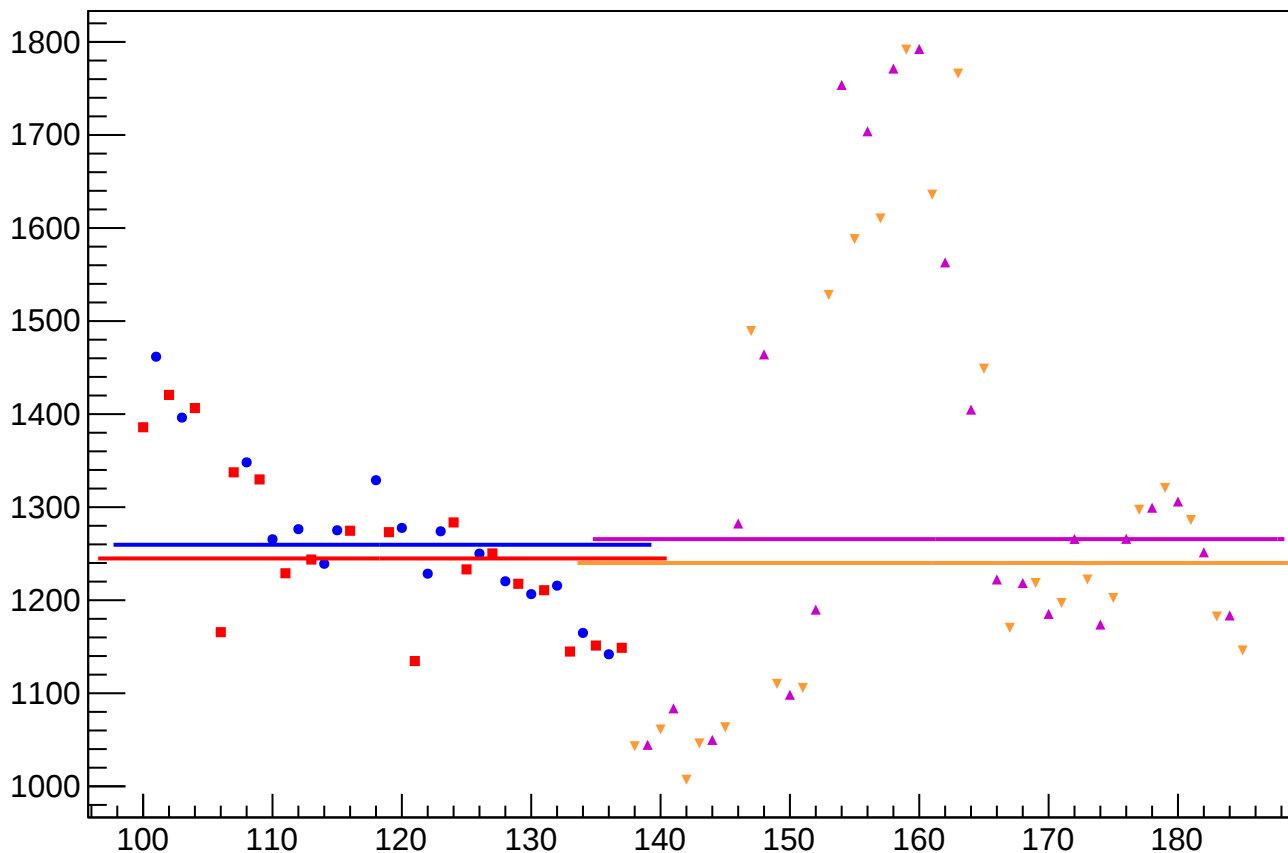
Right: -6.566 ± 0.337 $\chi^2/\text{NDF}: 687.3/35$

In: -1.014 ± 0.261 $\chi^2/\text{NDF}: 654.8/39$

Out: -0.606 ± 0.249 $\chi^2/\text{NDF}: 526.5/43$

All: -0.801 ± 0.180 $\chi^2/\text{NDF}: 1182.6/83$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.602 ± 0.344 $\chi^2/\text{NDF}: 64816.8/16$

Left Out: 1240.019 ± 0.209 $\chi^2/\text{NDF}: 958384.2/24$

Right Out: 1244.874 ± 0.331 $\chi^2/\text{NDF}: 66819.5/18$

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

Left: 1252.248 ± 0.151 $\chi^2/\text{NDF}: 1810756.3/47$

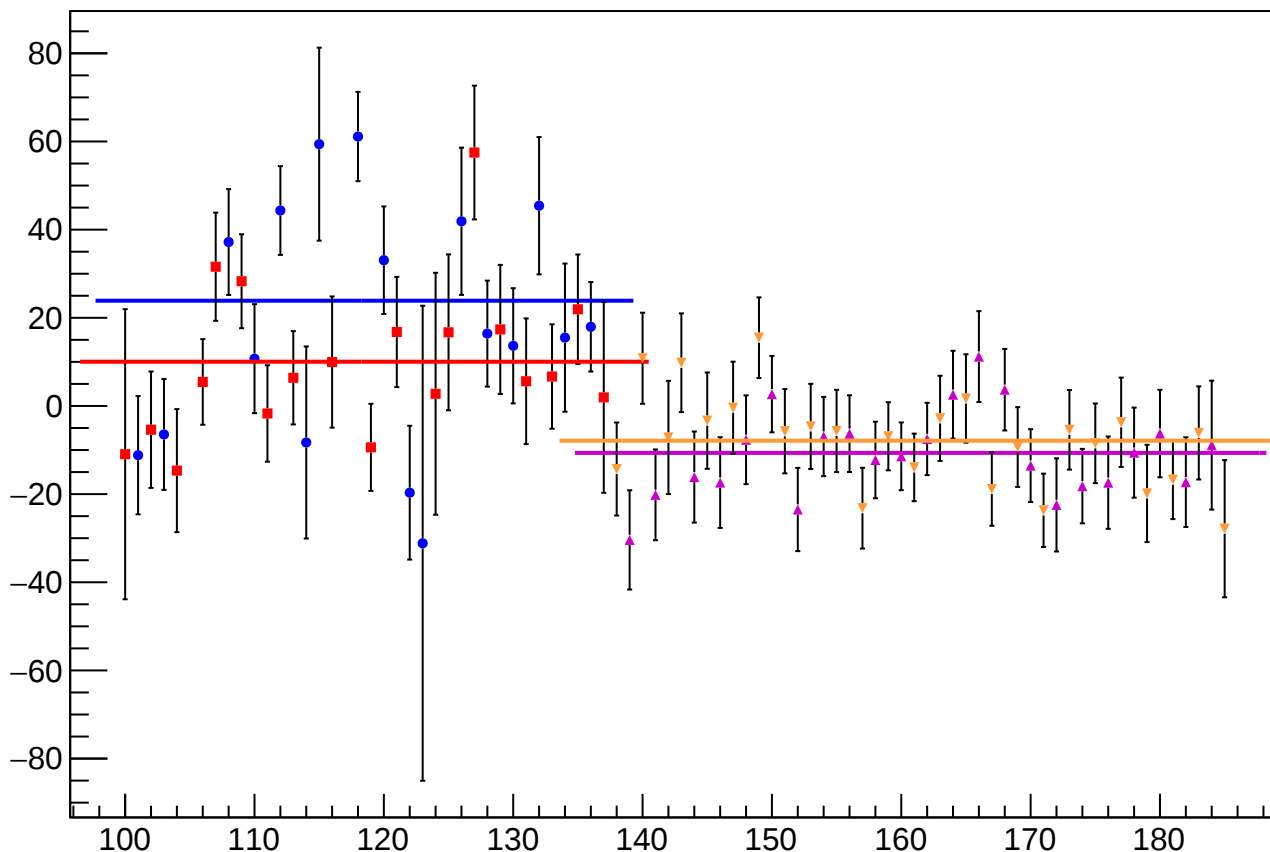
Right: 1251.936 ± 0.238 $\chi^2/\text{NDF}: 132588.1/35$

In: 1263.931 ± 0.184 $\chi^2/\text{NDF}: 910195.3/39$

Out: 1241.402 ± 0.176 $\chi^2/\text{NDF}: 1025358.0/43$

All: 1252.159 ± 0.127 $\chi^2/\text{NDF}: 1943345.6/83$

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.876+/-3.256 χ^2/NDF : 52.0/16

Left Out: -7.885+/-1.923 χ^2/NDF : 27.6/24

Right Out: 10.036+/-3.009 χ^2/NDF : 28.1/18

Left In: -10.653+/-1.988 χ^2/NDF : 21.4/22

Left: -9.223+/-1.382 χ^2/NDF : 50.1/47

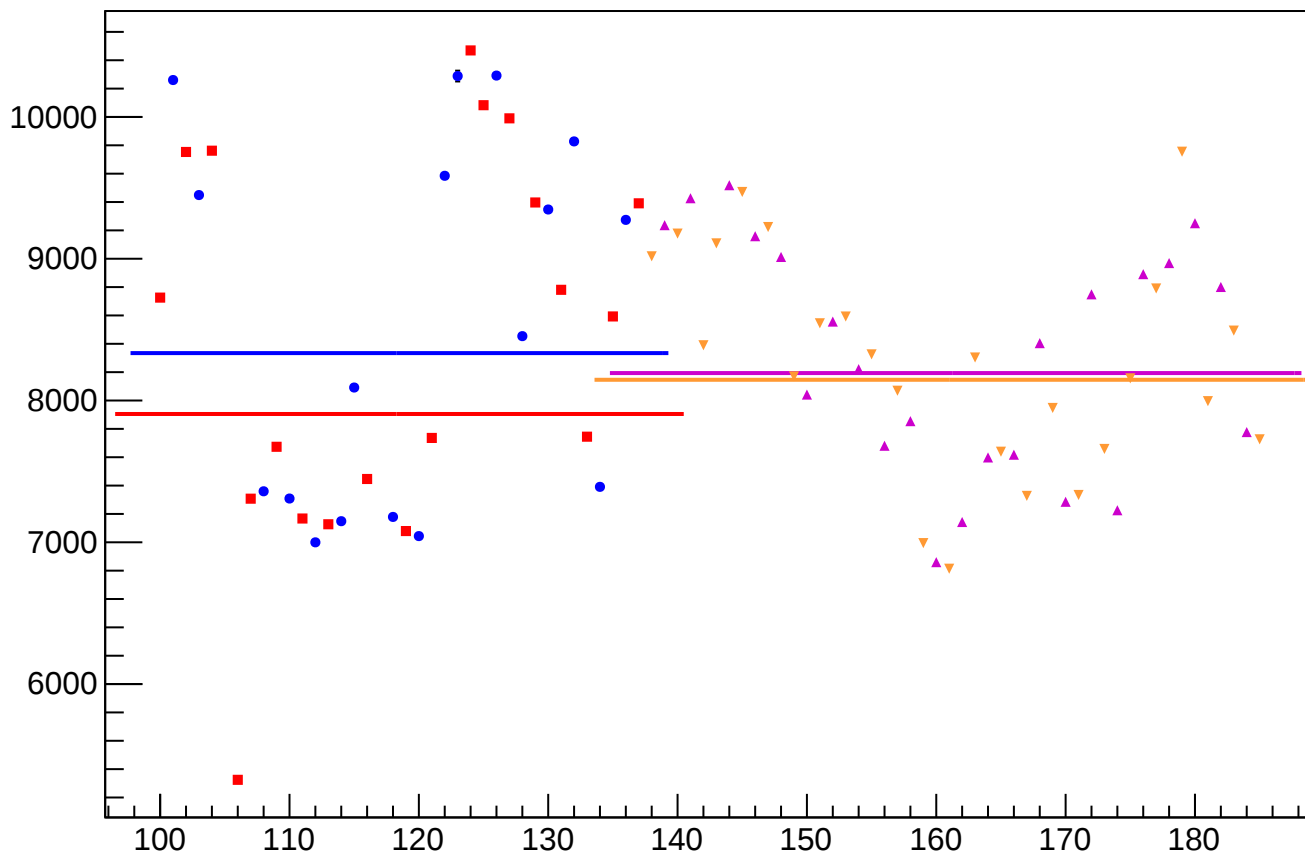
Right: 16.410+/-2.210 χ^2/NDF : 89.8/35

In: -1.280+/-1.697 χ^2/NDF : 155.3/39

Out: -2.688+/-1.620 χ^2/NDF : 80.9/43

All: -2.017+/-1.172 χ^2/NDF : 236.6/83

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.433+/-2.303 χ^2/NDF : 271366.4/16

Left Out: 8146.289+/-1.360 χ^2/NDF : 318880.4/24

Right Out: 7904.987+/-2.127 χ^2/NDF : 388597.2/18

Left In: 8193.636+/-1.405 χ^2/NDF : 338377.6/22

Left: 8169.179+/-0.977 χ^2/NDF : 657844.3/47

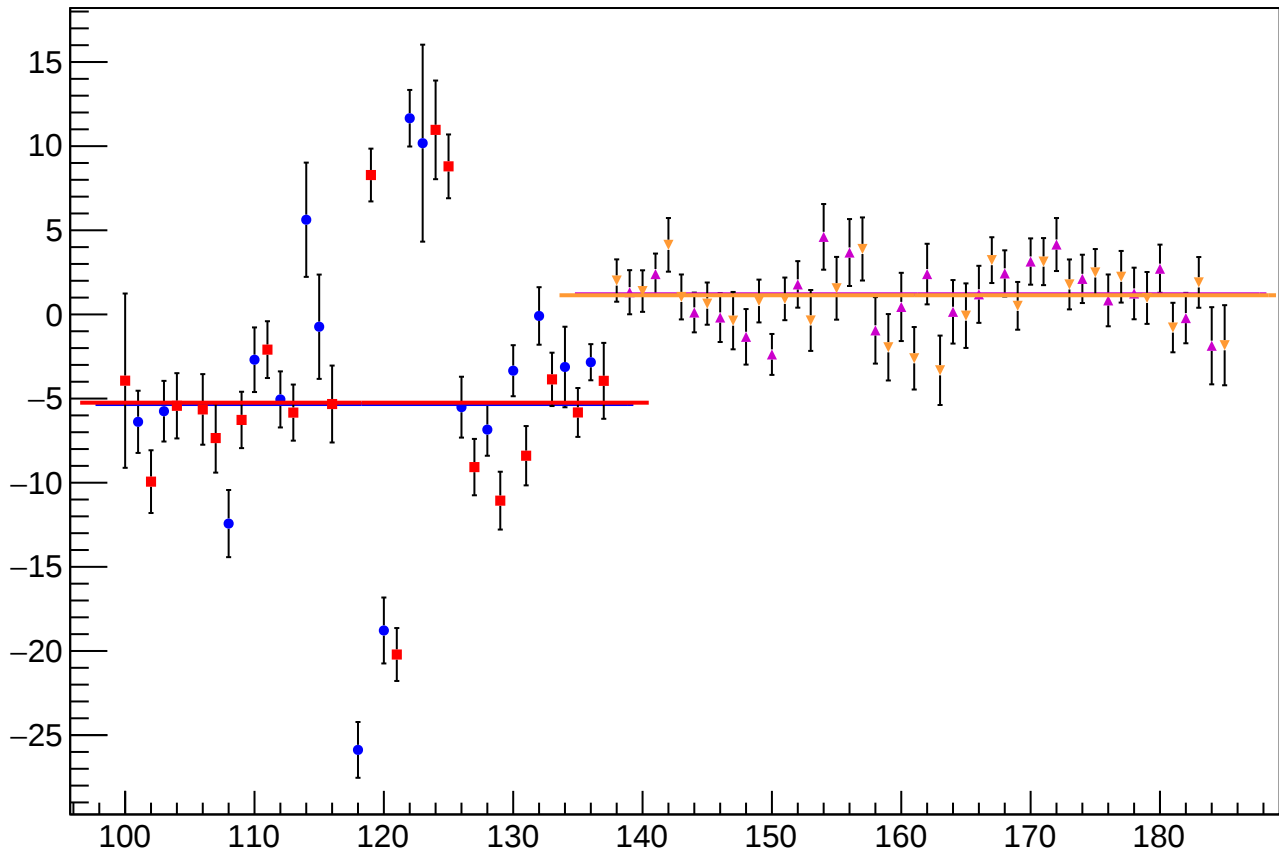
Right: 8102.760+/-1.563 χ^2/NDF : 678729.4/35

In: 8231.854+/-1.200 χ^2/NDF : 612468.2/39

Out: 8076.311+/-1.146 χ^2/NDF : 716611.7/43

All: 8150.506+/-0.829 χ^2/NDF : 1337872.5/83

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 1.139 ± 0.304 χ^2/NDF : 29.4/24

Right Out: -5.245 ± 0.422 χ^2/NDF : 283.1/18

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

Left: 1.167 ± 0.220 χ^2/NDF : 60.5/47

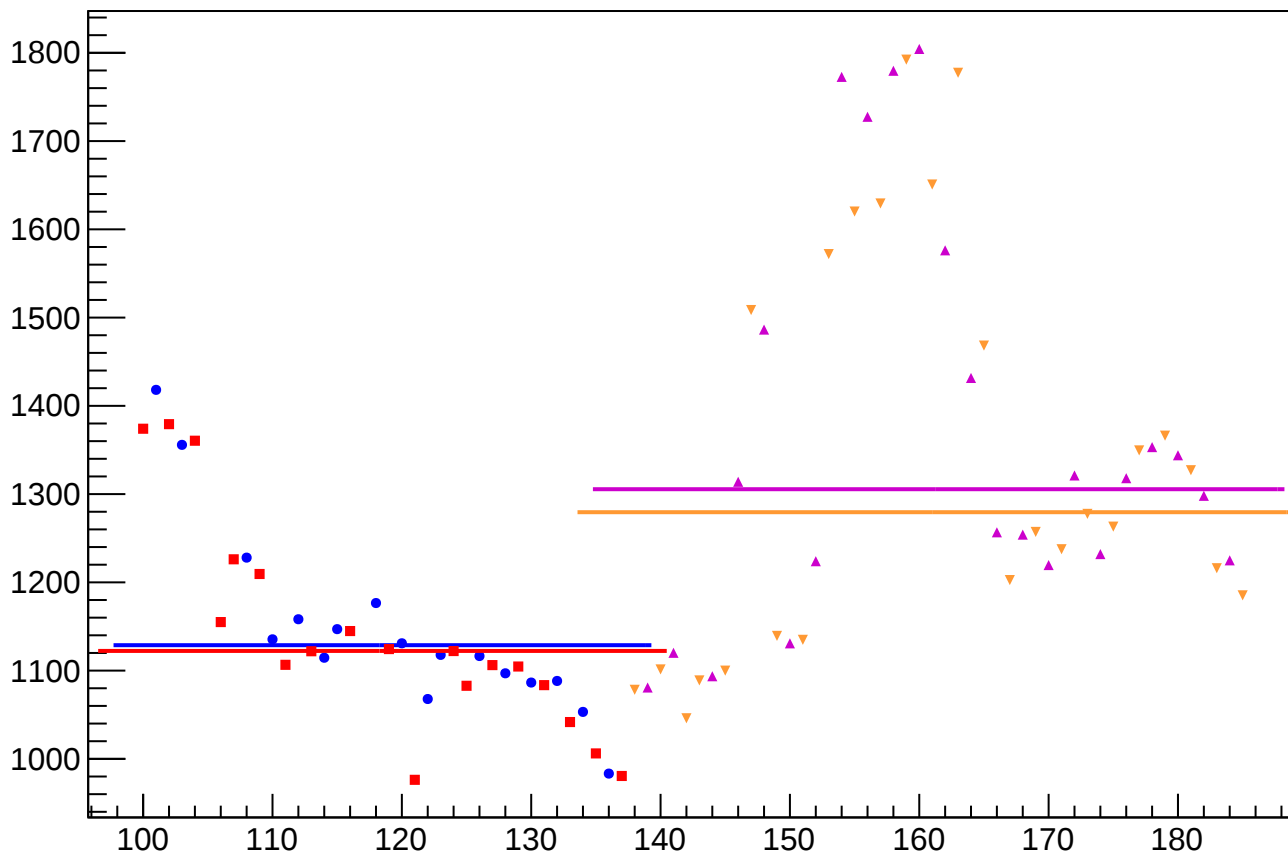
Right: -5.283 ± 0.304 χ^2/NDF : 639.0/35

In: -1.057 ± 0.257 χ^2/NDF : 532.3/39

Out: -1.037 ± 0.247 χ^2/NDF : 463.0/43

All: -1.047 ± 0.178 χ^2/NDF : 995.4/83

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.798 ± 0.309 $\chi^2/\text{NDF}: 133077.7/16$

Left Out: 1279.490 ± 0.215 $\chi^2/\text{NDF}: 871735.4/24$

Right Out: 1122.305 ± 0.299 $\chi^2/\text{NDF}: 129605.6/18$

Left In: 1305.541 ± 0.225 $\chi^2/\text{NDF}: 760450.8/22$

Left: 1291.913 ± 0.155 $\chi^2/\text{NDF}: 1639201.1/47$

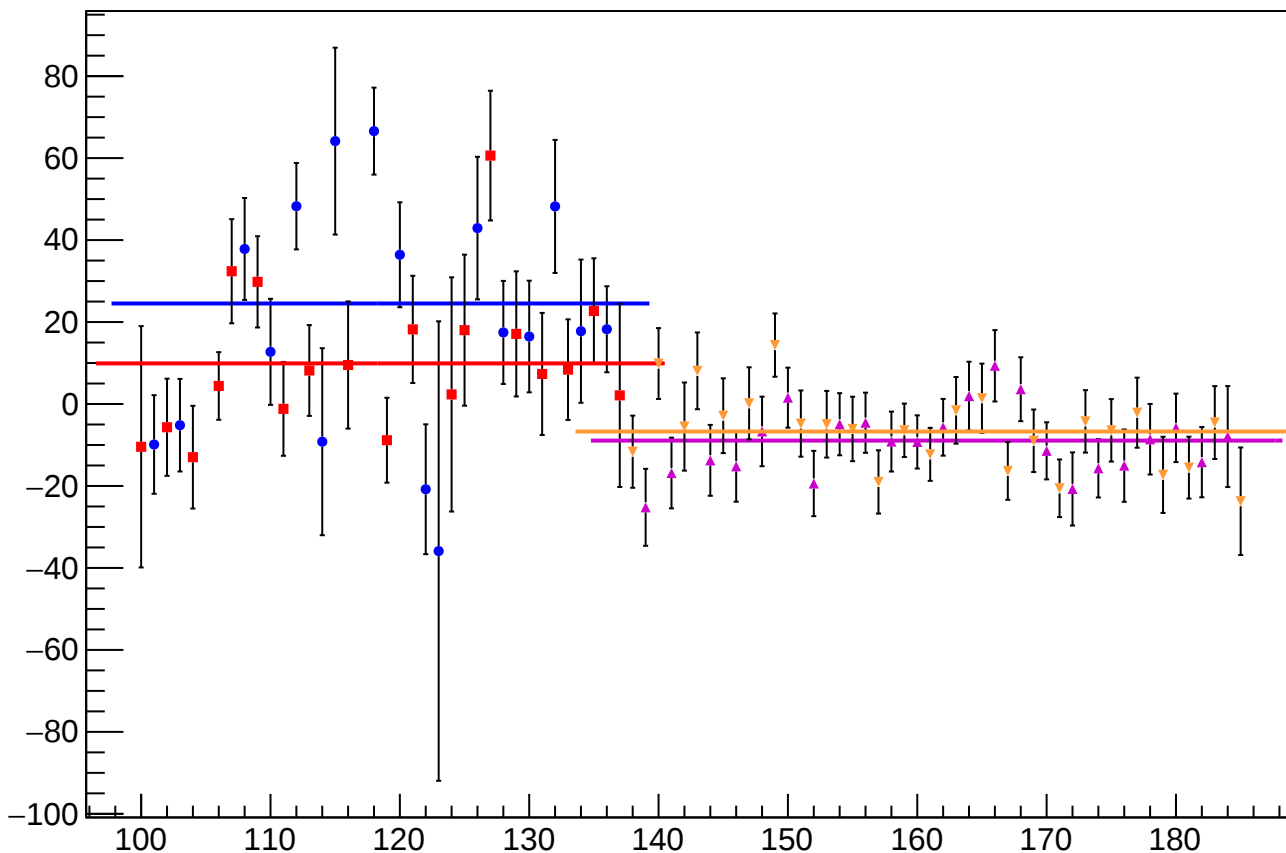
Right: 1125.436 ± 0.215 $\chi^2/\text{NDF}: 262911.2/35$

In: 1244.431 ± 0.182 $\chi^2/\text{NDF}: 1106945.1/39$

Out: 1225.911 ± 0.174 $\chi^2/\text{NDF}: 1183906.7/43$

All: 1234.777 ± 0.126 $\chi^2/\text{NDF}: 2296252.1/83$

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

Left Out: -6.708 ± 1.620 $\chi^2/\text{NDF}: 30.1/24$

Right Out: 9.911 ± 3.010 $\chi^2/\text{NDF}: 28.9/18$

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

Left: -7.778 ± 1.164 $\chi^2/\text{NDF}: 52.8/47$

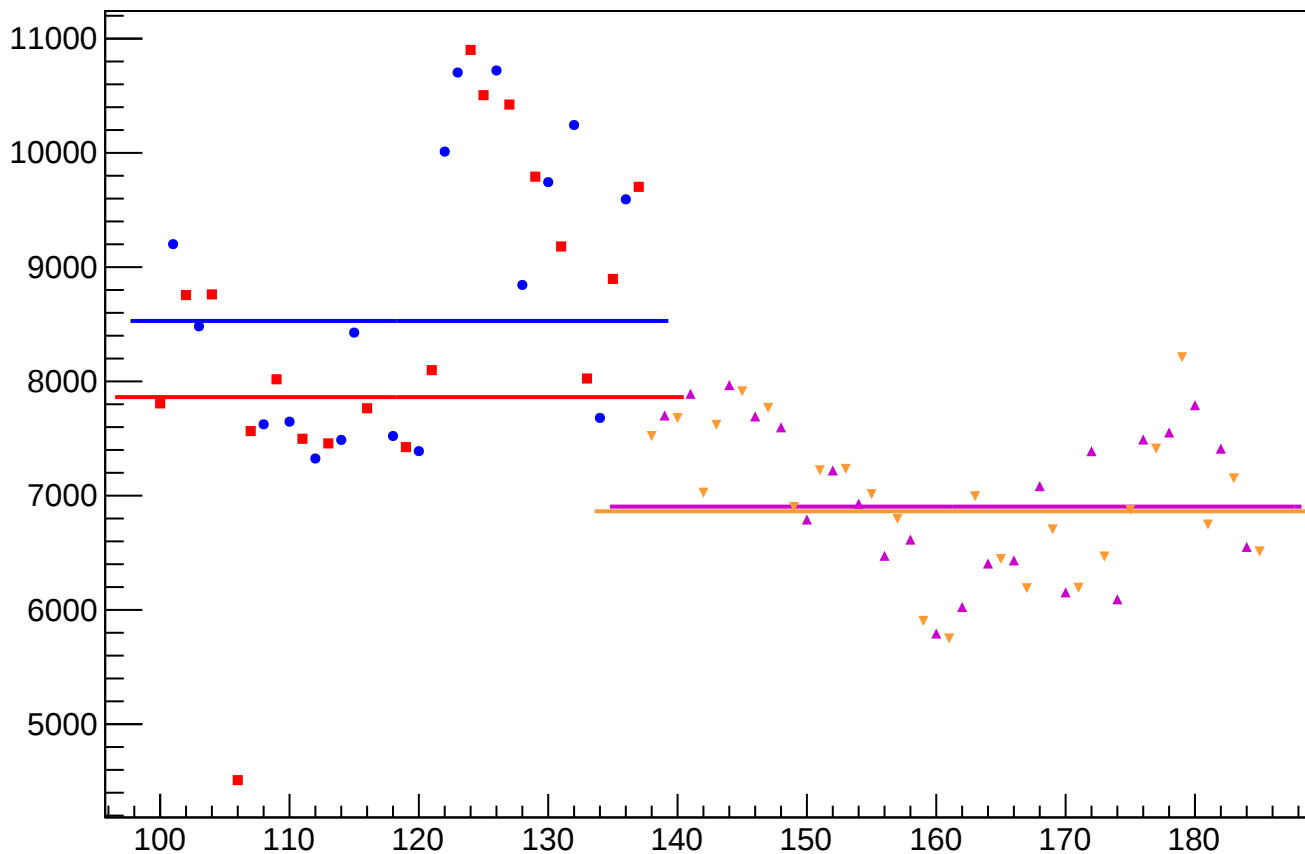
Right: 16.498 ± 2.231 $\chi^2/\text{NDF}: 97.2/35$

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

Out: -2.978 ± 1.426 $\chi^2/\text{NDF}: 82.6/43$

All: -2.585 ± 1.032 $\chi^2/\text{NDF}: 243.1/83$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.154 ± 2.350 $\chi^2/\text{NDF}: 207392.9/16$

Left Out: 6863.160 ± 1.145 $\chi^2/\text{NDF}: 304234.8/24$

Right Out: 7862.444 ± 2.129 $\chi^2/\text{NDF}: 552825.5/18$

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

Left: 6882.957 ± 0.823 $\chi^2/\text{NDF}: 630765.7/47$

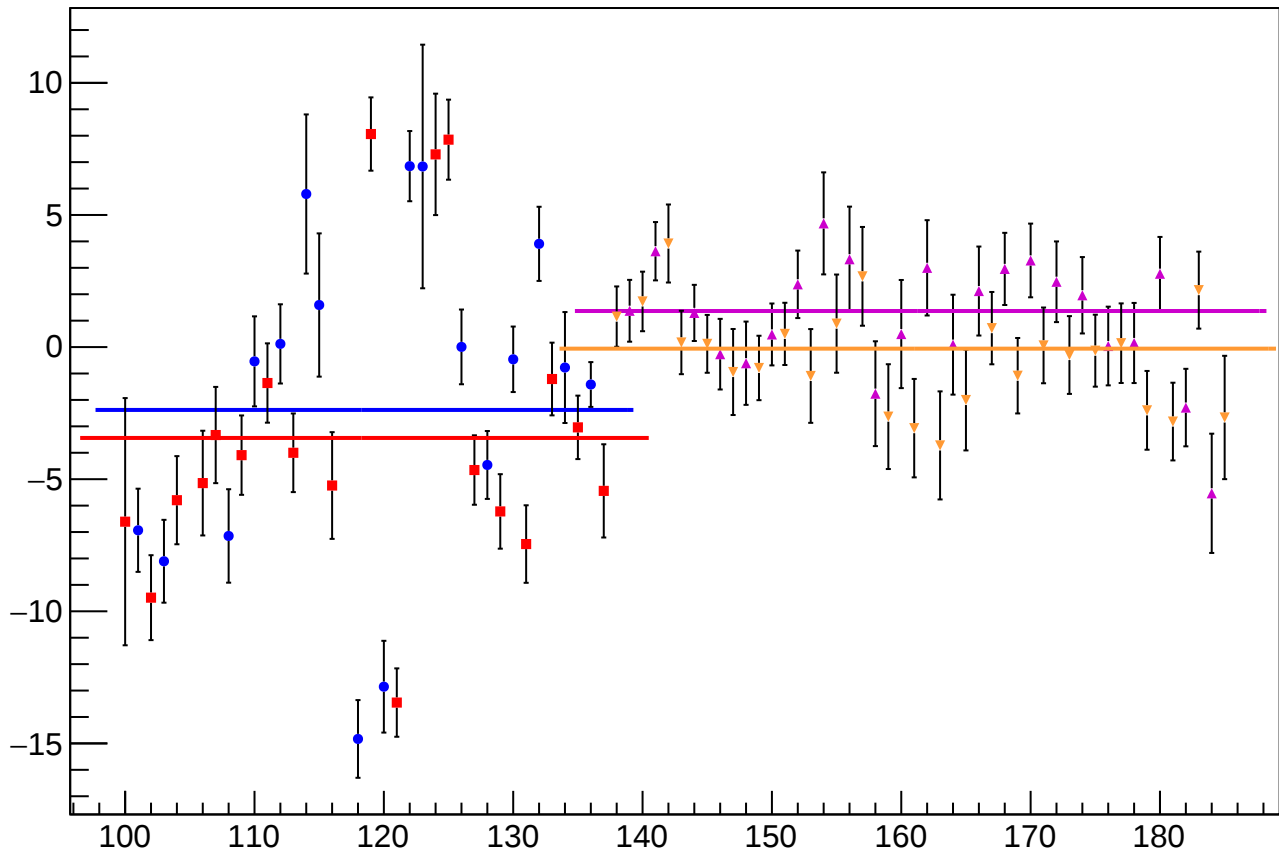
Right: 8162.886 ± 1.578 $\chi^2/\text{NDF}: 804422.1/35$

In: 7232.991 ± 1.057 $\chi^2/\text{NDF}: 914587.6/39$

Out: 7087.445 ± 1.008 $\chi^2/\text{NDF}: 1027964.0/43$

All: 7156.778 ± 0.730 $\chi^2/\text{NDF}: 1952473.2/83$

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

Left Out: -0.059 ± 0.291 χ^2/NDF : 33.5/24

Right Out: -3.439 ± 0.359 χ^2/NDF : 242.7/18

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

Left: 0.619 ± 0.211 χ^2/NDF : 83.4/47

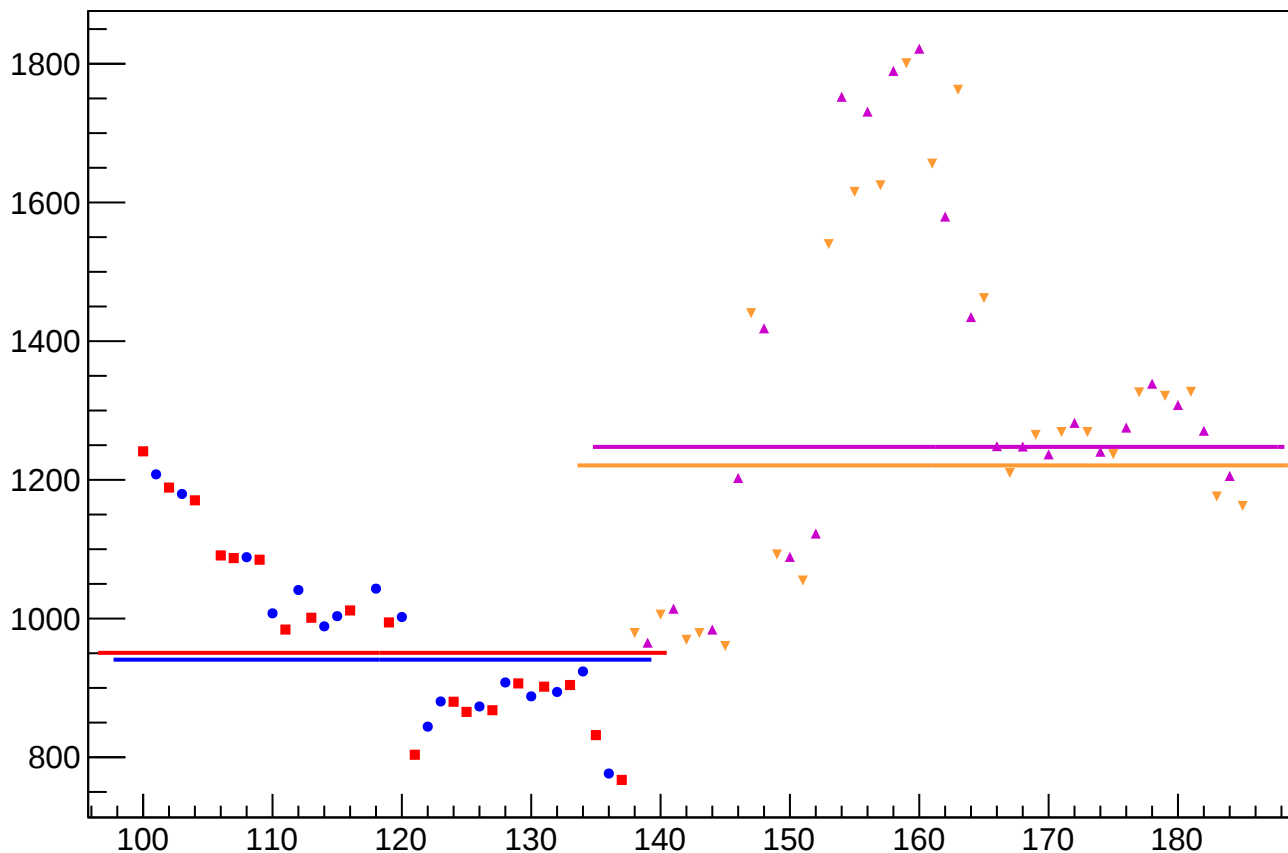
Right: -2.920 ± 0.256 χ^2/NDF : 479.5/35

In: -0.171 ± 0.235 χ^2/NDF : 332.7/39

Out: -1.402 ± 0.226 χ^2/NDF : 329.7/43

All: -0.809 ± 0.163 χ^2/NDF : 676.7/83

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1220.842 ± 0.206 χ^2/NDF : 1252788.9/24

Right Out: 950.573 ± 0.254 χ^2/NDF : 220343.0/18

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

Left: 1233.558 ± 0.149 χ^2/NDF : 2334177.1/47

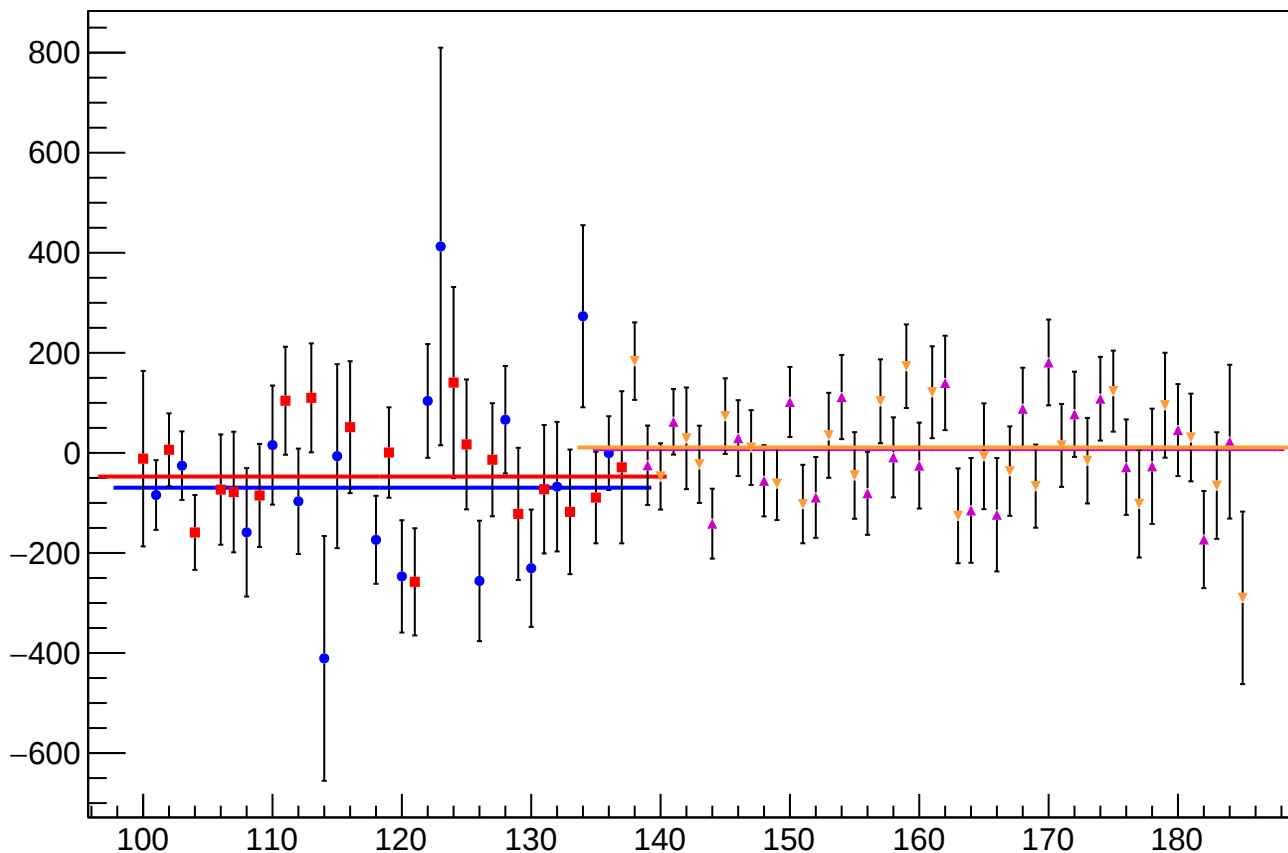
Right: 945.752 ± 0.181 χ^2/NDF : 462784.3/35

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

Out: 1113.481 ± 0.160 χ^2/NDF : 2156807.3/43

All: 1117.414 ± 0.115 χ^2/NDF : 4300867.8/83

diff_bpm0r03X_mean vs Slug, Sign Corrected



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

Left Out: 10.839 ± 17.212 χ^2/NDF : 27.3/24

Right Out: -47.342 ± 25.054 χ^2/NDF : 14.0/18

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

Left: 9.271 ± 12.330 χ^2/NDF : 55.4/47

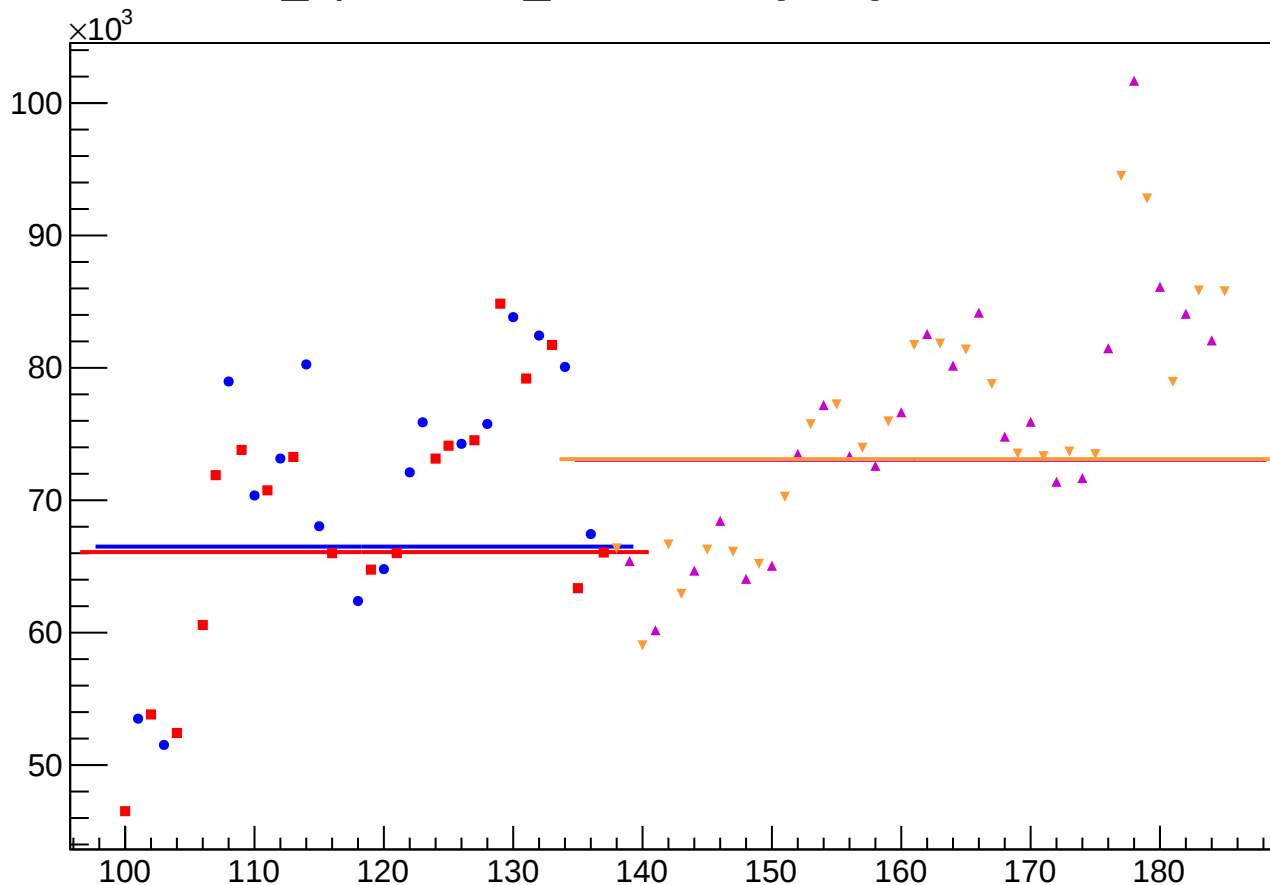
Right: -58.047 ± 18.035 χ^2/NDF : 36.0/35

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

Out: -7.815 ± 14.187 χ^2/NDF : 45.0/43

All: -12.172 ± 10.178 χ^2/NDF : 100.9/83

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66500.038 $\pm$ 18.371 χ^2/NDF : 320048.0/16

Left Out: 73108.447 $\pm$ 12.170 χ^2/NDF : 470497.7/24

Right Out: 66086.098 $\pm$ 17.716 χ^2/NDF : 298277.2/18

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

Left: 73077.804 $\pm$ 8.719 χ^2/NDF : 934036.1/47

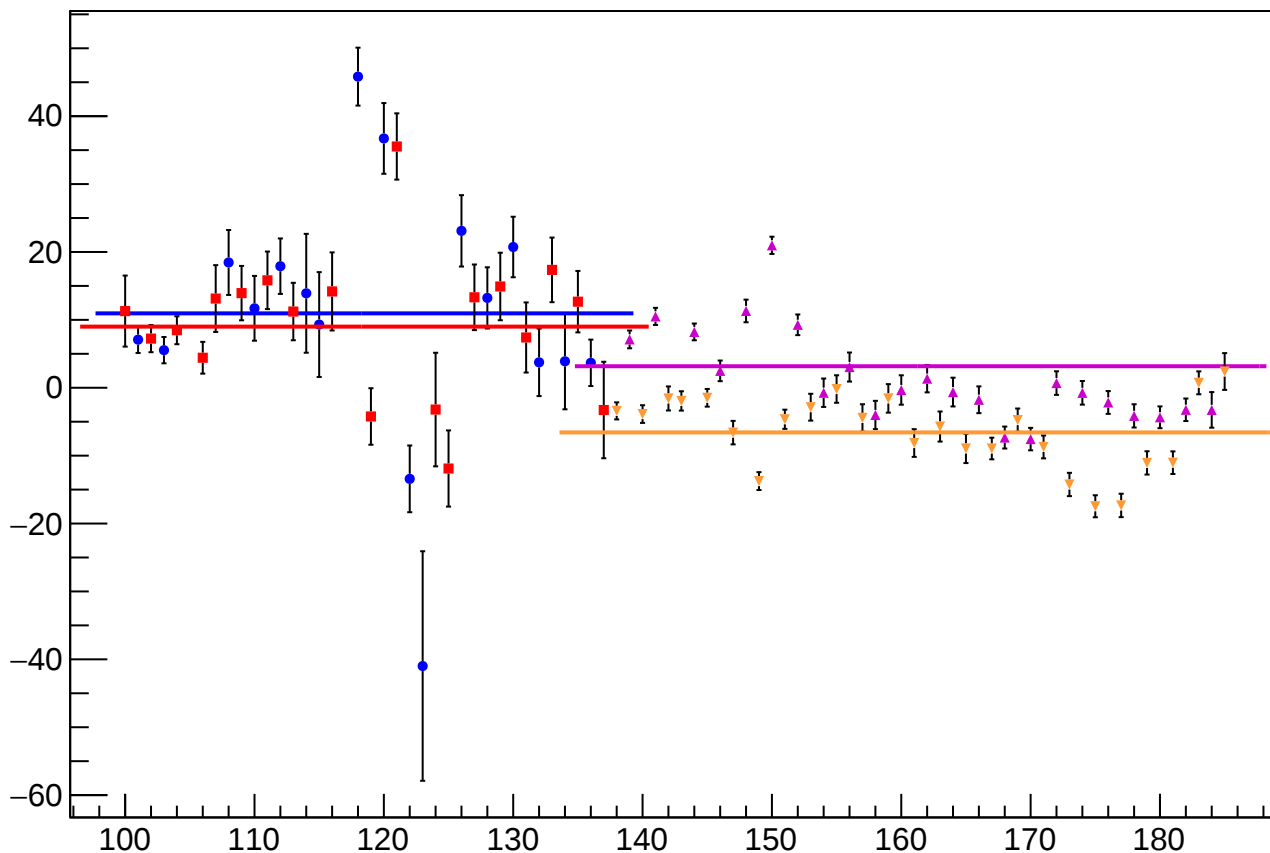
Right: 66285.552 $\pm$ 12.752 χ^2/NDF : 618588.3/35

In: 70975.139 $\pm$ 10.332 χ^2/NDF : 870362.5/39

Out: 70856.904 $\pm$ 10.031 χ^2/NDF : 875520.7/43

All: 70914.275 $\pm$ 7.197 χ^2/NDF : 1745950.6/86

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.959 ± 0.944 χ^2/NDF : 160.6/16

Left Out: -6.577 ± 0.333 χ^2/NDF : 251.0/24

Right Out: 9.006 ± 0.867 χ^2/NDF : 75.5/18

Left In: 3.171 ± 0.346 χ^2/NDF : 487.3/22

Left: -1.893 ± 0.240 χ^2/NDF : 1149.5/47

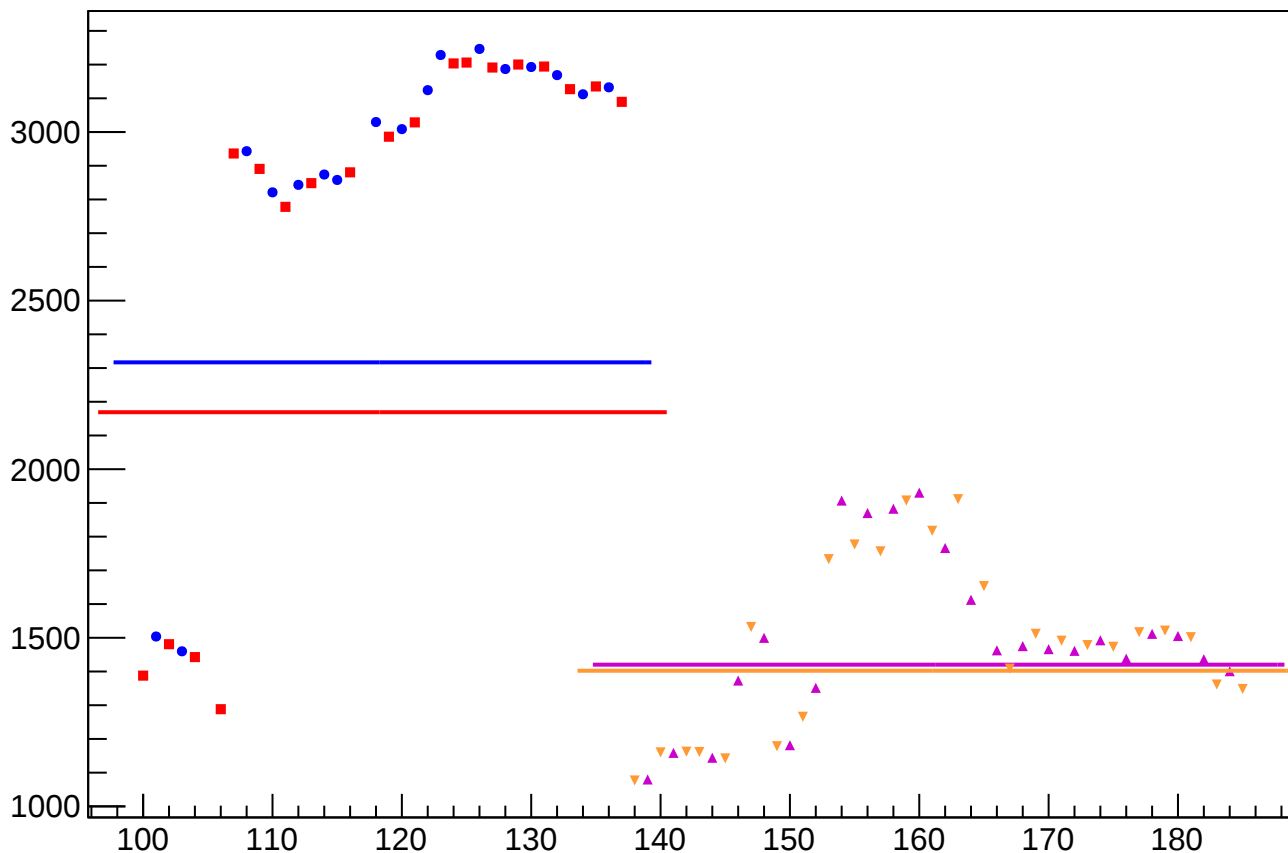
Right: 9.899 ± 0.639 χ^2/NDF : 238.4/35

In: 4.095 ± 0.325 χ^2/NDF : 707.9/39

Out: -4.572 ± 0.311 χ^2/NDF : 607.9/43

All: -0.432 ± 0.225 χ^2/NDF : 1686.6/83

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2316.901 $\pm$ 0.668 χ^2/NDF : 1405097.4/16

Left Out: 1402.351 $\pm$ 0.236 χ^2/NDF : 1031815.3/24

Right Out: 2169.038 $\pm$ 0.613 χ^2/NDF : 1749119.2/18

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

Left: 1410.970 $\pm$ 0.170 χ^2/NDF : 1939785.1/47

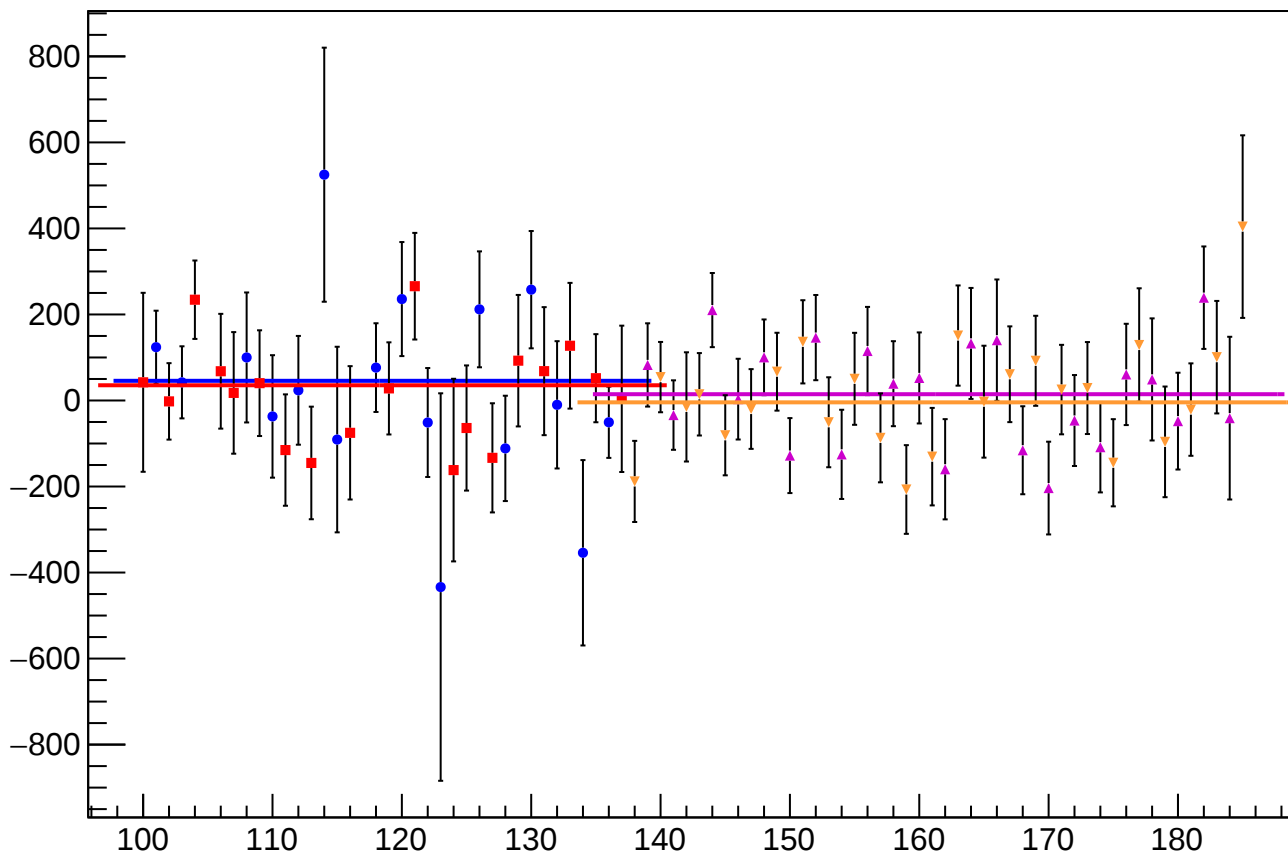
Right: 2236.688 $\pm$ 0.452 χ^2/NDF : 3180824.5/35

In: 1526.678 $\pm$ 0.230 χ^2/NDF : 3899774.6/39

Out: 1501.016 $\pm$ 0.220 χ^2/NDF : 4143279.1/43

All: 1513.276 $\pm$ 0.159 χ^2/NDF : 8049556.2/83

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 45.747+/-30.474 χ^2/NDF : 18.8/16

Left Out: -4.326+/-21.293 χ^2/NDF : 25.0/24

Right Out: 35.391+/-29.480 χ^2/NDF : 16.0/18

Left In: 14.611+/-21.846 χ^2/NDF : 29.8/22

Left: 4.900+/-15.248 χ^2/NDF : 55.2/47

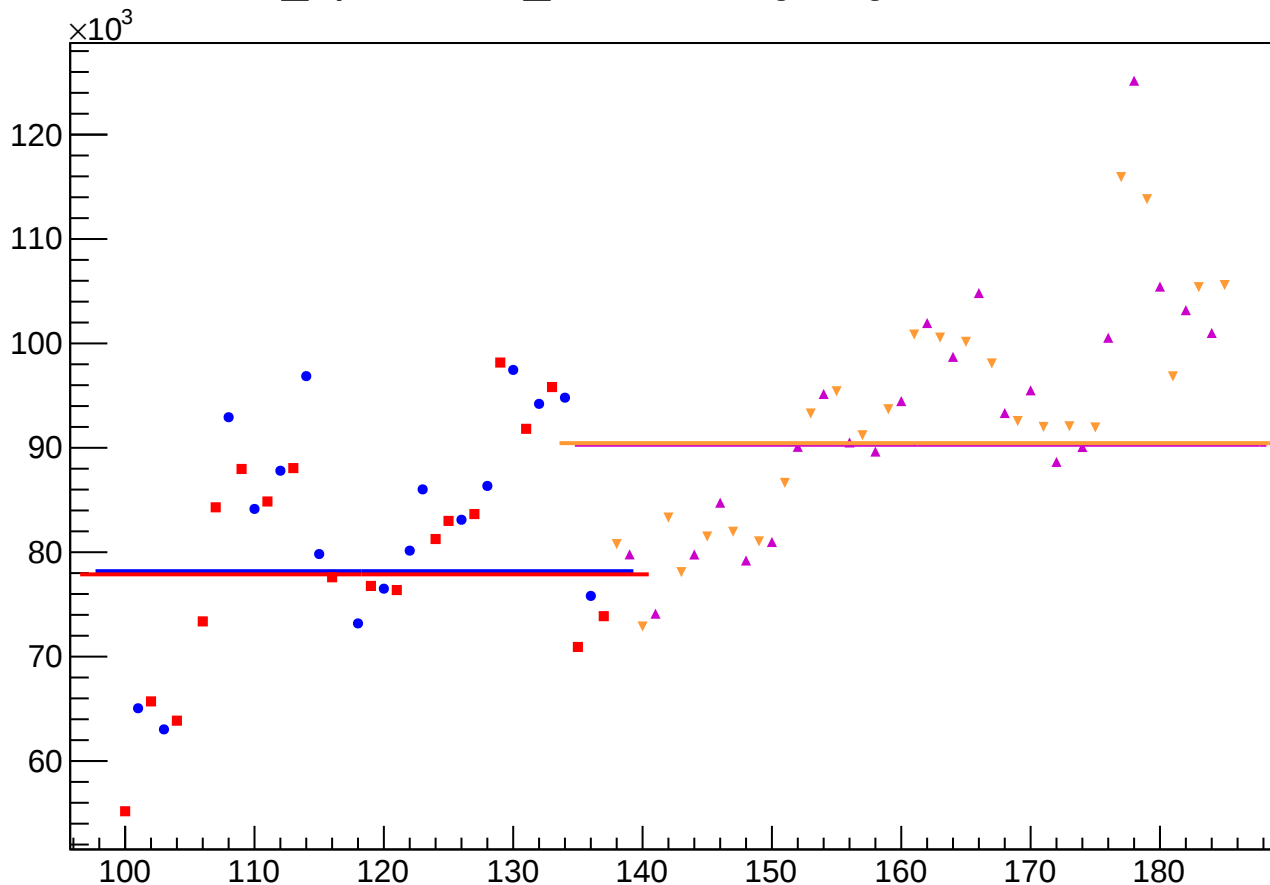
Right: 40.397+/-21.188 χ^2/NDF : 34.8/35

In: 25.180+/-17.755 χ^2/NDF : 49.3/39

Out: 9.291+/-17.261 χ^2/NDF : 42.2/43

All: 17.012+/-12.377 χ^2/NDF : 91.9/83

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78183.588 $\pm$ 21.548 χ^2 /NDF: 250278.3/16

Left Out: 90448.273 $\pm$ 15.057 χ^2 /NDF: 459417.2/24

Right Out: 77880.644 $\pm$ 20.846 χ^2 /NDF: 247268.7/18

Left In: 90293.591 $\pm$ 15.448 χ^2 /NDF: 461337.5/22

Left: 90372.914 $\pm$ 10.782 χ^2 /NDF: 920806.1/47

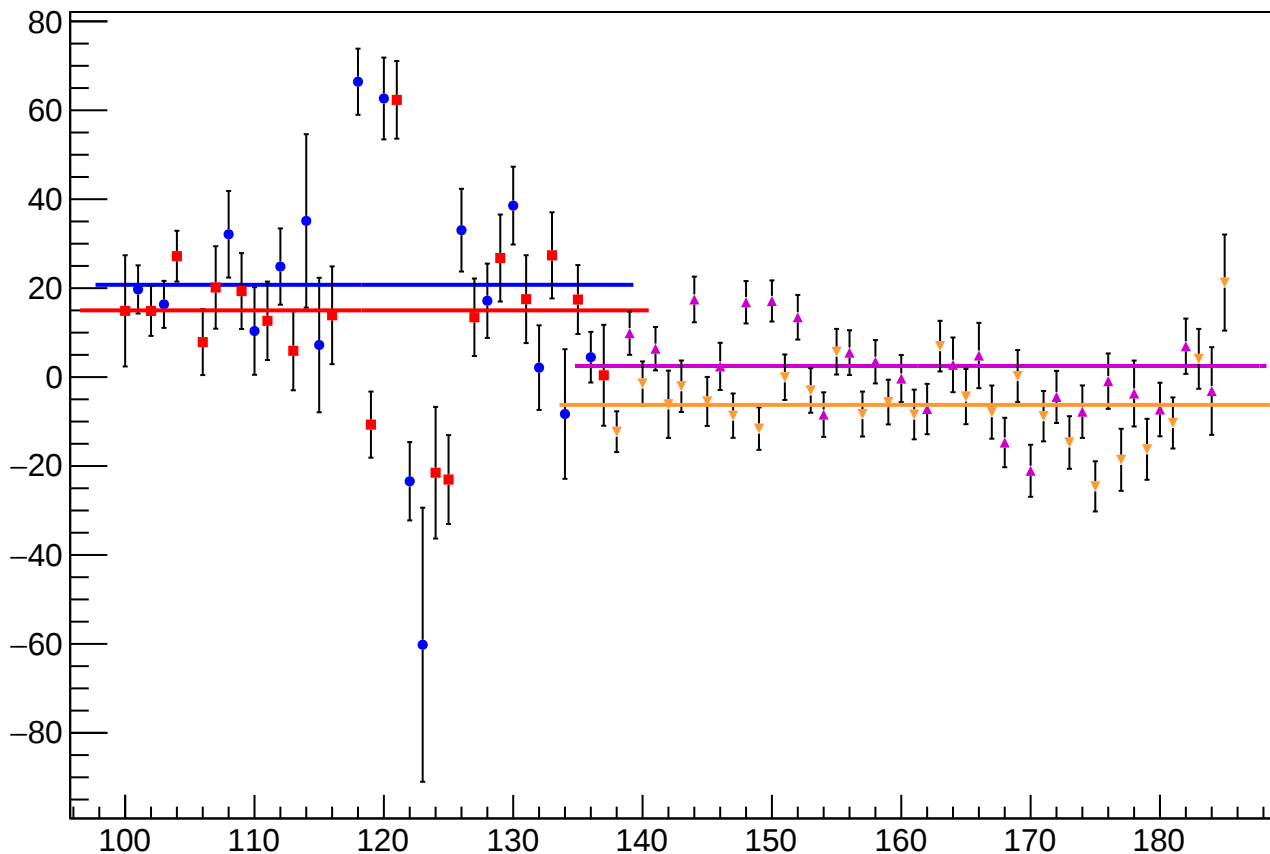
Right: 78027.099 $\pm$ 14.982 χ^2 /NDF: 497649.1/35

In: 86182.639 $\pm$ 12.555 χ^2 /NDF: 920241.5/39

Out: 86139.550 $\pm$ 12.206 χ^2 /NDF: 945546.5/43

All: 86160.487 $\pm$ 8.752 χ^2 /NDF: 1865794.0/86

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.754 $\pm$ 2.039 χ^2 /NDF: 117.4/16

Left Out: -6.245 $\pm$ 1.127 χ^2 /NDF: 46.5/24

Right Out: 15.004 $\pm$ 1.958 χ^2 /NDF: 74.0/18

Left In: 2.501 $\pm$ 1.156 χ^2 /NDF: 78.4/22

Left: -1.982 $\pm$ 0.807 χ^2 /NDF: 154.3/47

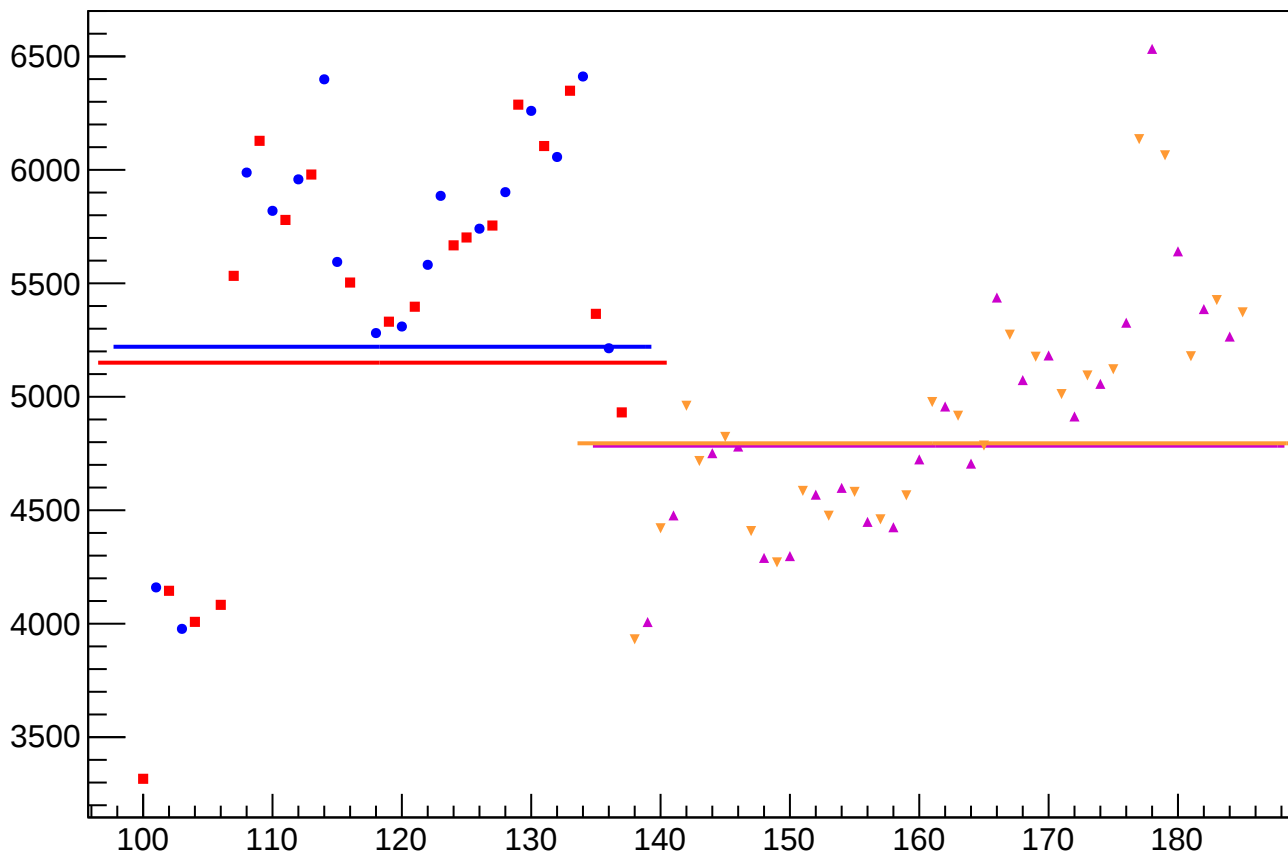
Right: 17.763 $\pm$ 1.412 χ^2 /NDF: 195.5/35

In: 6.942 $\pm$ 1.006 χ^2 /NDF: 256.4/39

Out: -0.954 $\pm$ 0.977 χ^2 /NDF: 209.1/43

All: 2.880 $\pm$ 0.701 χ^2 /NDF: 497.2/83

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5220.495 $\pm$ 1.441 χ^2 /NDF: 311533.7/16

Left Out: 4795.015 $\pm$ 0.797 χ^2 /NDF:361470.0/24

Right Out: 5150.309 $\pm$ 1.384 χ^2 /NDF: 387575.3/18

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

Left: 4789.858 $\pm$ 0.571 χ^2 /NDF: 719063.1/47

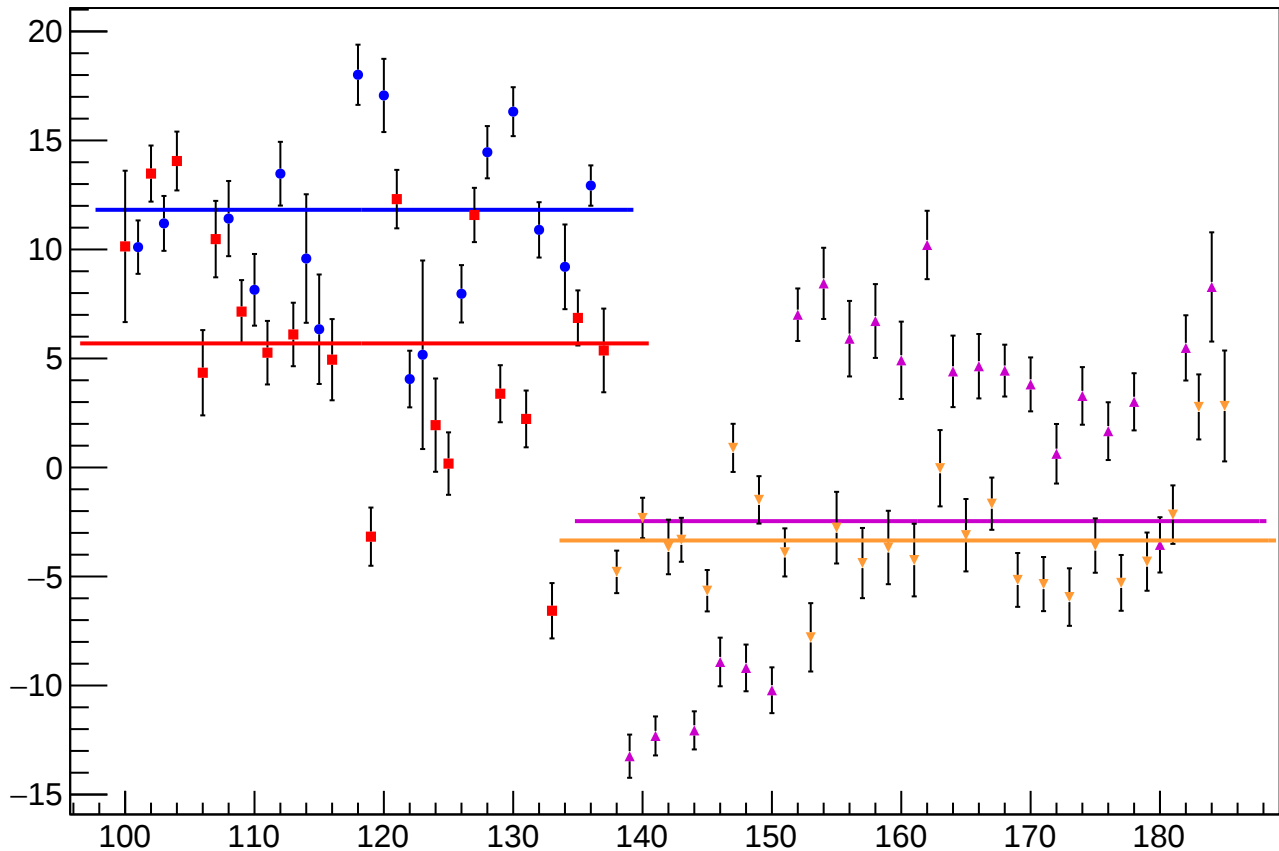
Right: 5183.979 $\pm$ 0.998 χ^2 /NDF: 700342.4/35

In: 4890.526 $\pm$ 0.711 χ^2 /NDF:738288.2/39

Out: 4883.481 $\pm$ 0.691 χ^2 /NDF:798525.0/43

All: 4886.901 $\pm$ 0.495 χ^2 /NDF: 1536863.7/83

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.819 ± 0.345 $\chi^2/\text{NDF}: 115.1/16$

Left Out: -3.348 ± 0.254 $\chi^2/\text{NDF}: 76.9/24$

Right Out: 5.691 ± 0.339 $\chi^2/\text{NDF}: 299.2/18$

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

Left: -2.923 ± 0.183 $\chi^2/\text{NDF}: 1010.7/47$

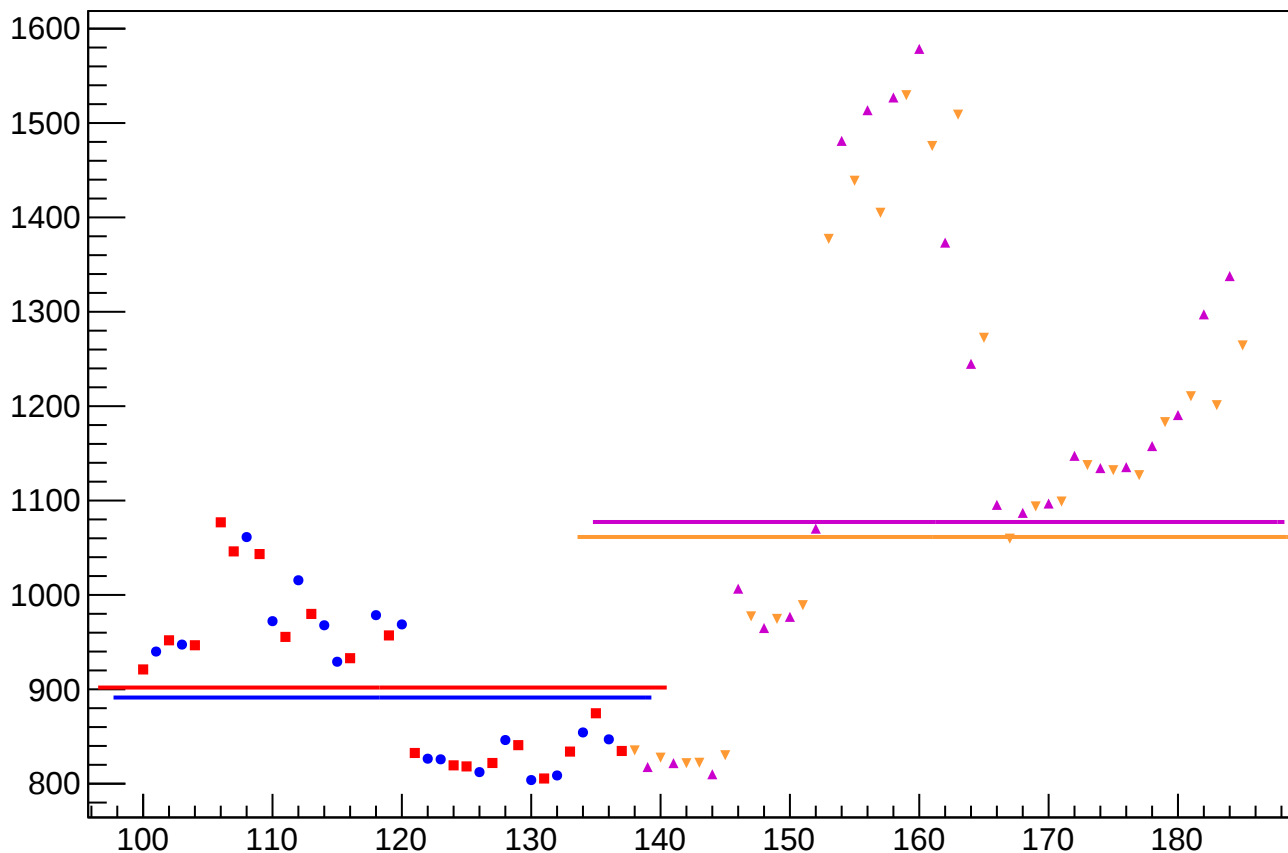
Right: 8.701 ± 0.242 $\chi^2/\text{NDF}: 574.6/35$

In: 2.819 ± 0.210 $\chi^2/\text{NDF}: 2121.8/39$

Out: -0.106 ± 0.203 $\chi^2/\text{NDF}: 831.6/43$

All: 1.308 ± 0.146 $\chi^2/\text{NDF}: 3053.8/83$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.299 ± 0.244 $\chi^2/\text{NDF}: 101327.8/16$

Left Out: 1061.402 ± 0.179 $\chi^2/\text{NDF}: 1384497.6/24$

Right Out: 901.879 ± 0.240 $\chi^2/\text{NDF}: 114242.3/18$

Left In: 1077.284 ± 0.187 $\chi^2/\text{NDF}: 1280349.9/22$

Left: 1069.012 ± 0.129 $\chi^2/\text{NDF}: 2668607.0/47$

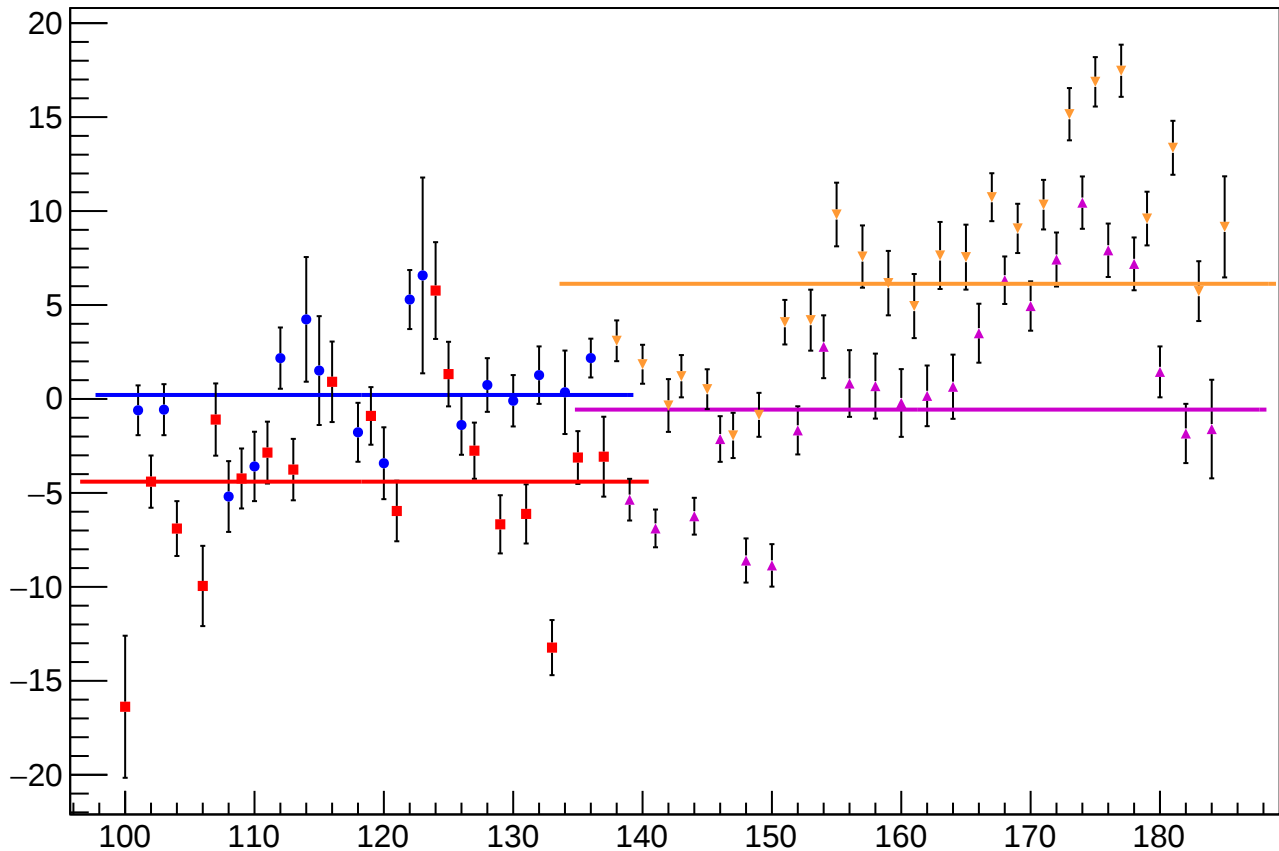
Right: 896.682 ± 0.171 $\chi^2/\text{NDF}: 216526.2/35$

In: 1008.519 ± 0.148 $\chi^2/\text{NDF}: 1747667.3/39$

Out: 1004.195 ± 0.144 $\chi^2/\text{NDF}: 1782567.7/43$

All: 1006.286 ± 0.103 $\chi^2/\text{NDF}: 3530673.3/83$

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.396 χ^2/NDF : 38.8/16

Left Out: 6.129 ± 0.273 χ^2/NDF : 422.0/24

Right Out: -4.400 ± 0.387 χ^2/NDF : 104.8/18

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

Left: 2.915 ± 0.197 χ^2/NDF : 1127.7/47

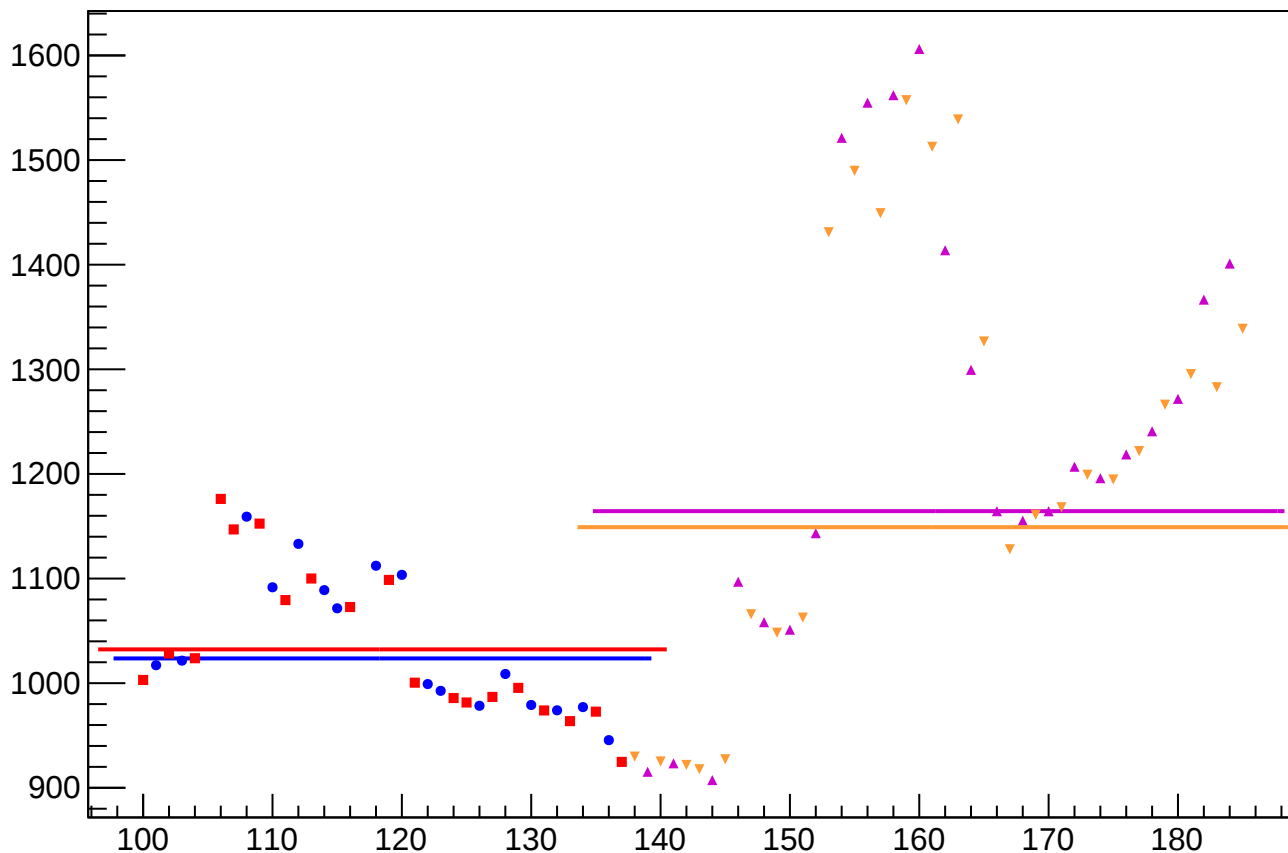
Right: -2.142 ± 0.277 χ^2/NDF : 212.9/35

In: -0.301 ± 0.231 χ^2/NDF : 458.3/39

Out: 2.636 ± 0.223 χ^2/NDF : 1020.4/43

All: 1.217 ± 0.160 χ^2/NDF : 1562.3/83

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.643 $\pm$ 0.280 χ^2 /NDF: 52282.5/16

Left Out: 1149.120 $\pm$ 0.193 χ^2 /NDF:1032202.5/24

Right Out: 1032.299 $\pm$ 0.274 χ^2 /NDF: 59262.4/18

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

Left: 1156.470 $\pm$ 0.139 χ^2 /NDF: 1979334.9/47

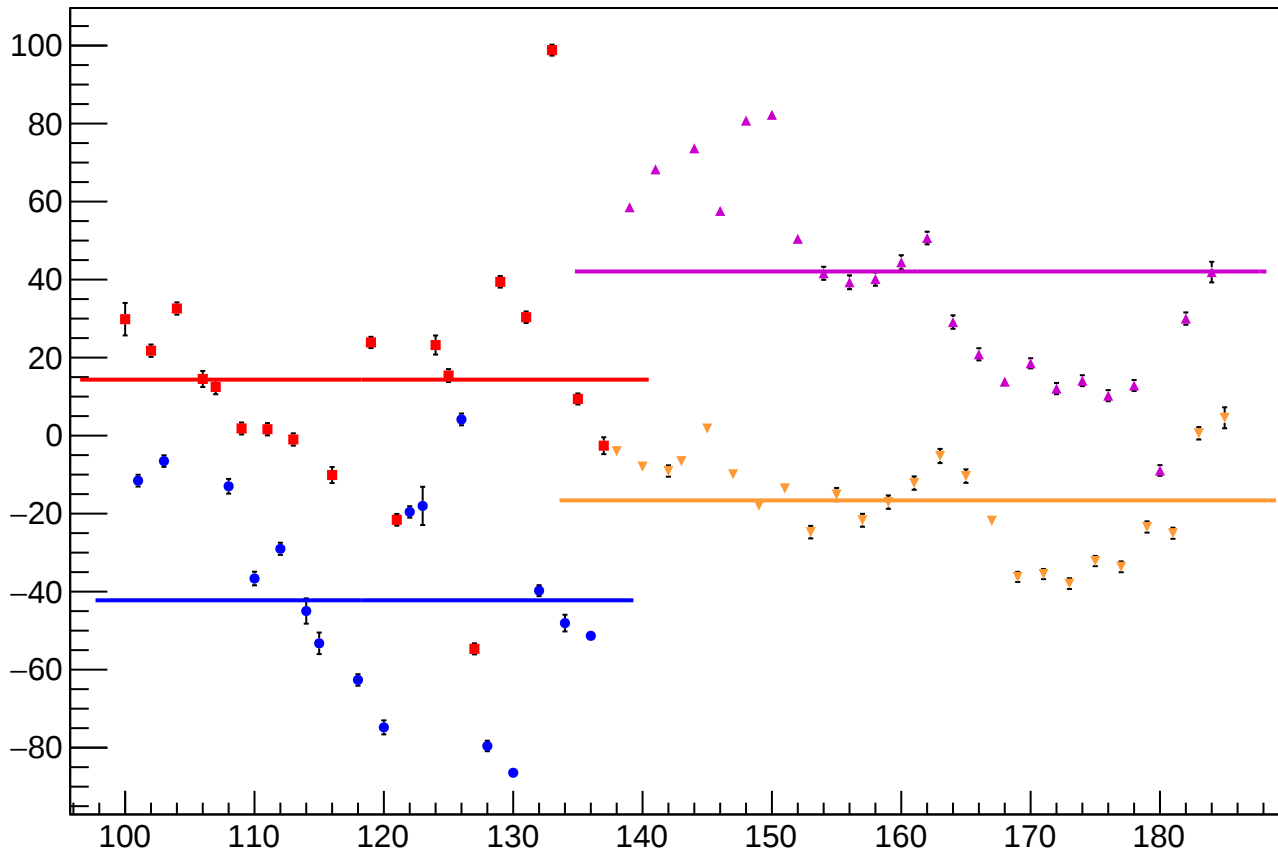
Right: 1028.062 $\pm$ 0.196 χ^2 /NDF: 112033.6/35

In: 1116.535 $\pm$ 0.163 χ^2 /NDF:1163464.0/39

Out: 1110.361 $\pm$ 0.158 χ^2 /NDF:1212972.3/43

All: 1113.344 $\pm$ 0.113 χ^2 /NDF: 2377175.9/83

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.222 ± 0.388 $\chi^2/\text{NDF}: 5097.2/16$

Left Out: -16.611 ± 0.277 $\chi^2/\text{NDF}: 1930.5/24$

Right Out: 14.353 ± 0.379 $\chi^2/\text{NDF}: 7667.7/18$

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

Left: 11.432 ± 0.200 $\chi^2/\text{NDF}: 31782.1/47$

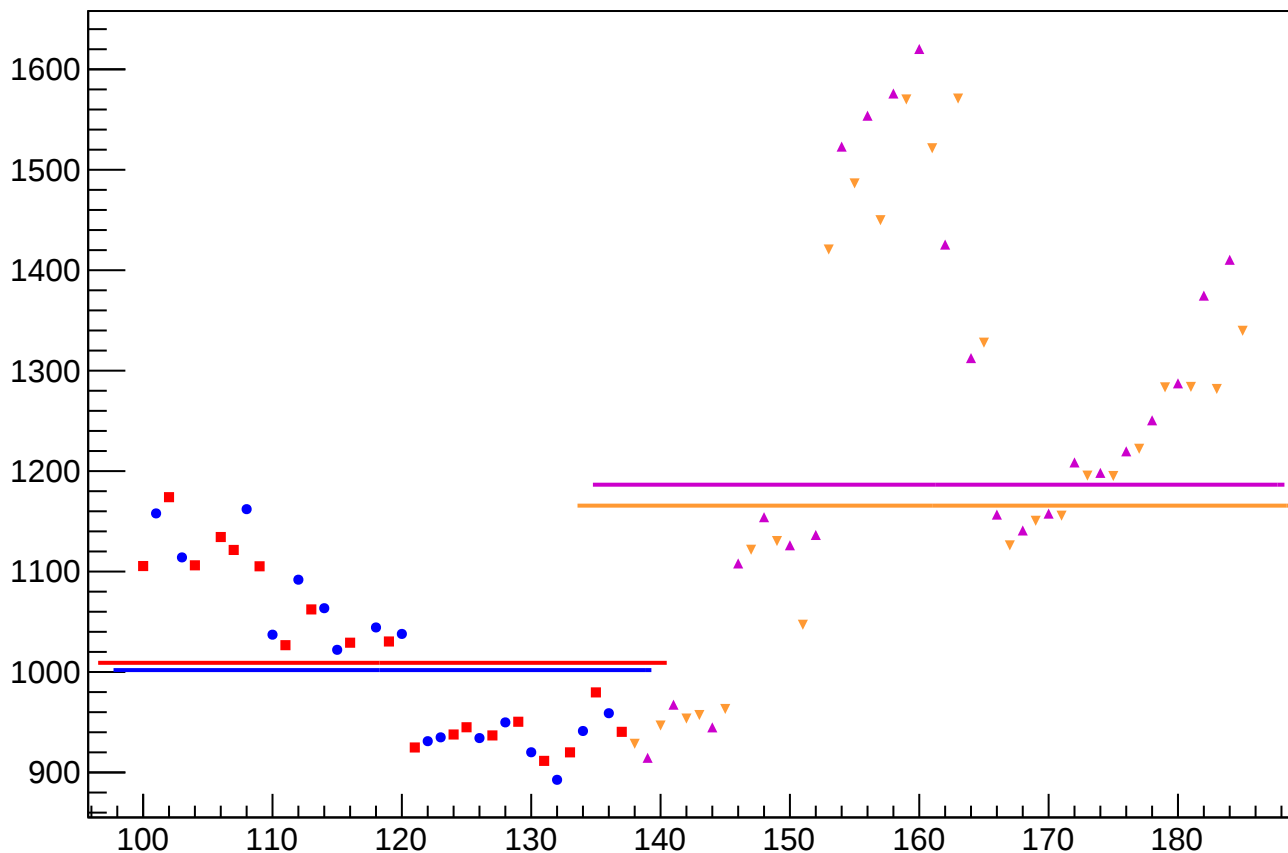
Right: -13.294 ± 0.271 $\chi^2/\text{NDF}: 23642.7/35$

In: 11.972 ± 0.232 $\chi^2/\text{NDF}: 43795.1/39$

Out: -5.860 ± 0.223 $\chi^2/\text{NDF}: 13950.8/43$

All: 2.729 ± 0.161 $\chi^2/\text{NDF}: 60813.7/83$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.897 $\pm$ 0.274 χ^2 /NDF: 95203.3/16

Left Out: 1165.629 $\pm$ 0.196 χ^2 /NDF: 925115.8/24

Right Out: 1009.139 $\pm$ 0.268 χ^2 /NDF: 95040.9/18

Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

Left: 1175.590 $\pm$ 0.141 χ^2 /NDF: 1763966.8/47

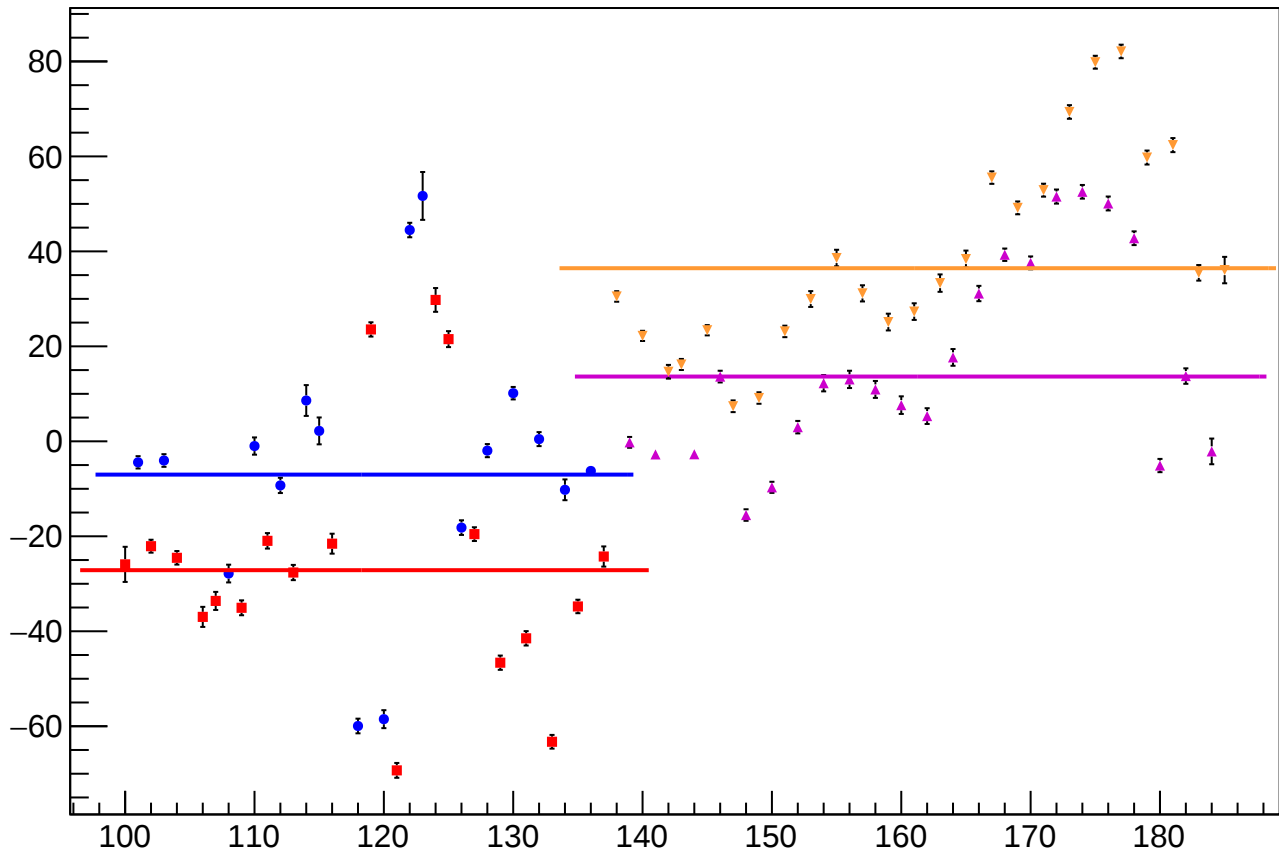
Right: 1005.600 $\pm$ 0.192 χ^2 /NDF: 190600.7/35

In: 1120.559 $\pm$ 0.164 χ^2 /NDF: 1219786.0/39

Out: 1111.294 $\pm$ 0.158 χ^2 /NDF: 1242512.3/43

All: 1115.757 $\pm$ 0.114 χ^2 /NDF: 2463954.6/83

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -7.011 ± 0.389 χ^2/NDF : 3634.7/16

Left Out: 36.455 ± 0.281 χ^2/NDF : 5727.3/24

Right Out: -27.137 ± 0.380 χ^2/NDF : 4257.1/18

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

Left: 25.507 ± 0.203 χ^2/NDF : 14063.6/47

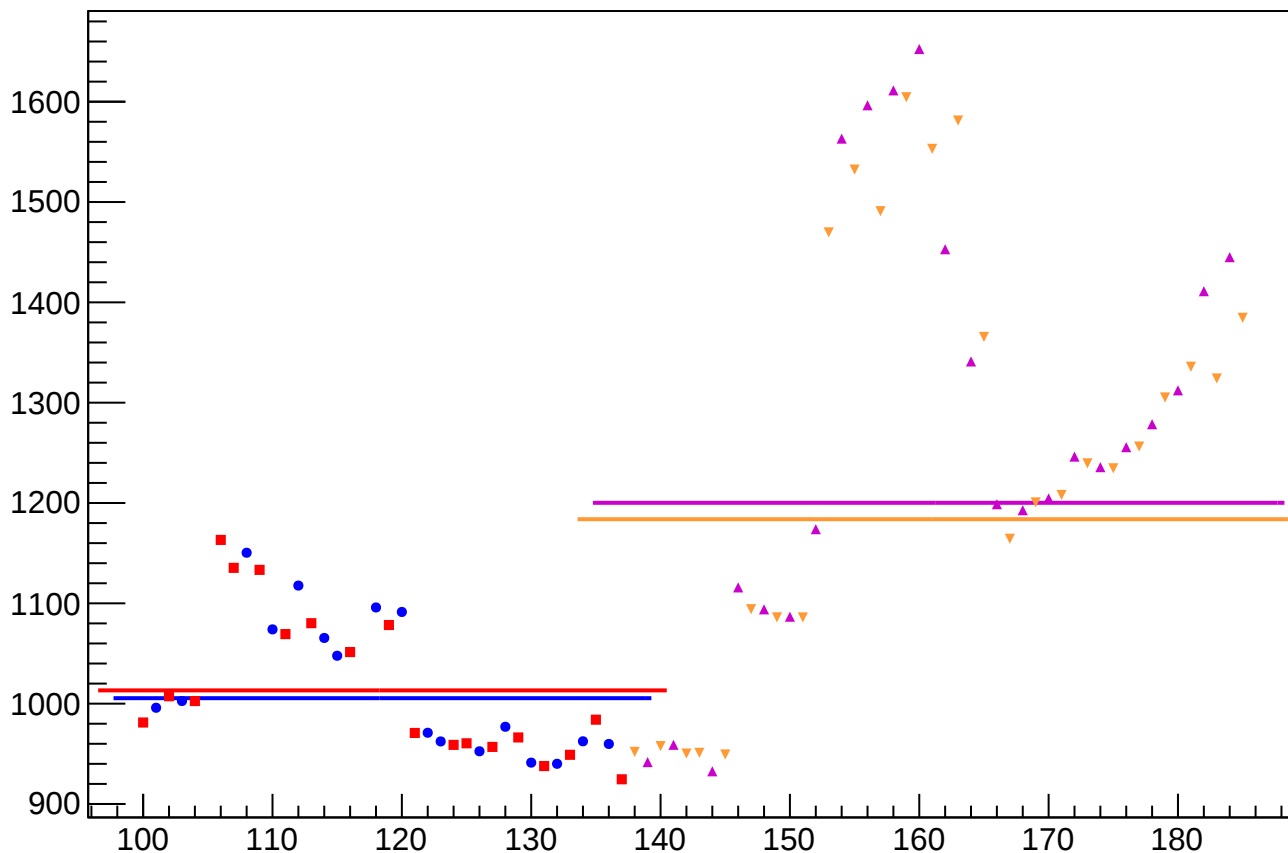
Right: -17.293 ± 0.272 χ^2/NDF : 9261.8/35

In: 6.163 ± 0.234 χ^2/NDF : 10613.6/39

Out: 13.973 ± 0.226 χ^2/NDF : 28062.0/43

All: 10.200 ± 0.163 χ^2/NDF : 39252.2/83

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.453+/-0.275 χ^2/NDF : 54493.5/16

Left Out: 1183.843+/-0.199 χ^2/NDF : 1031038.1/24

Right Out: 1013.228+/-0.269 χ^2/NDF : 63189.9/18

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

Left: 1191.691+/-0.143 χ^2/NDF : 1972509.0/47

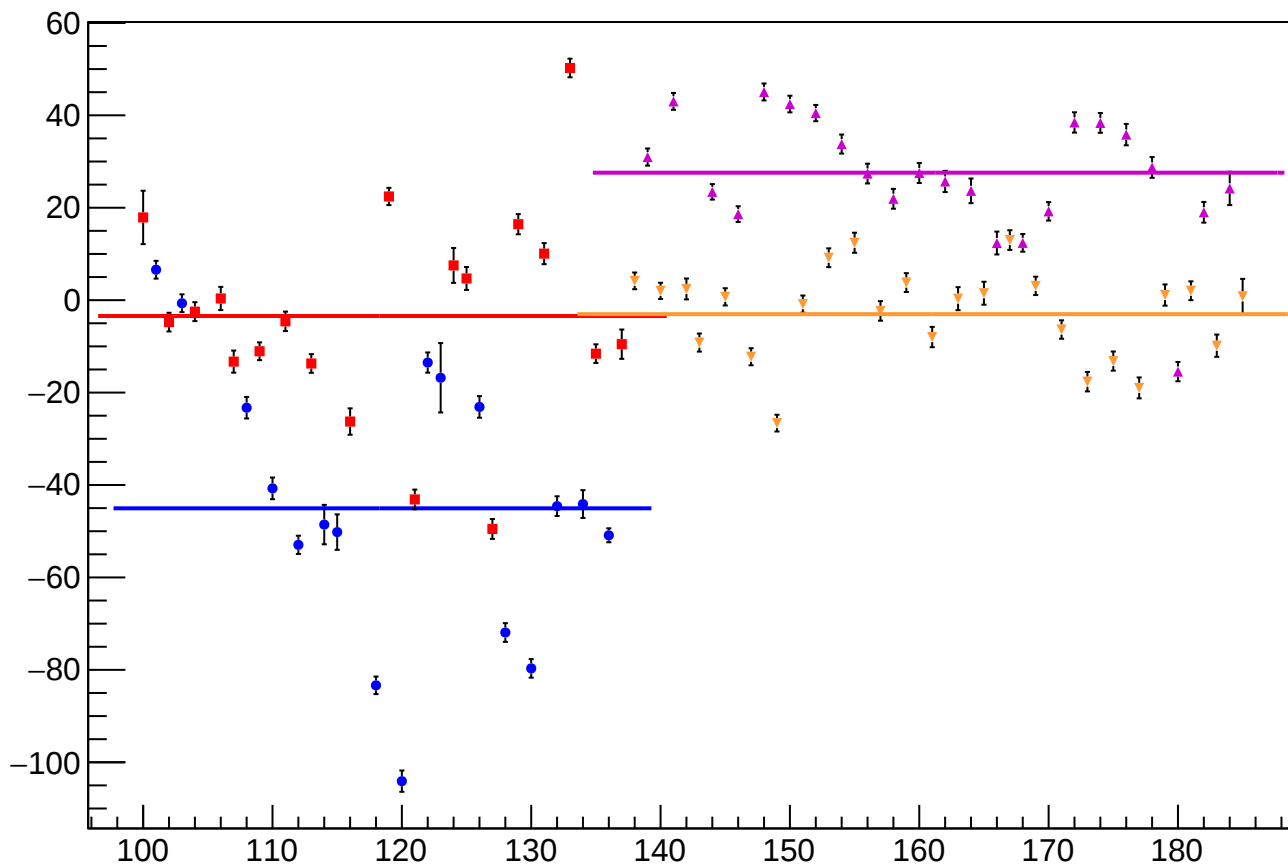
Right: 1009.425+/-0.192 χ^2/NDF : 118092.3/35

In: 1129.689+/-0.165 χ^2/NDF : 1313063.7/39

Out: 1123.526+/-0.160 χ^2/NDF : 1354488.1/43

All: 1126.504+/-0.115 χ^2/NDF : 2668269.7/83

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.043 ± 0.541 χ^2/NDF : 3223.5/16

Left Out: -3.025 ± 0.417 χ^2/NDF : 556.2/24

Right Out: -3.429 ± 0.523 χ^2/NDF : 2001.9/18

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.831 ± 0.299 χ^2/NDF : 4135.7/47

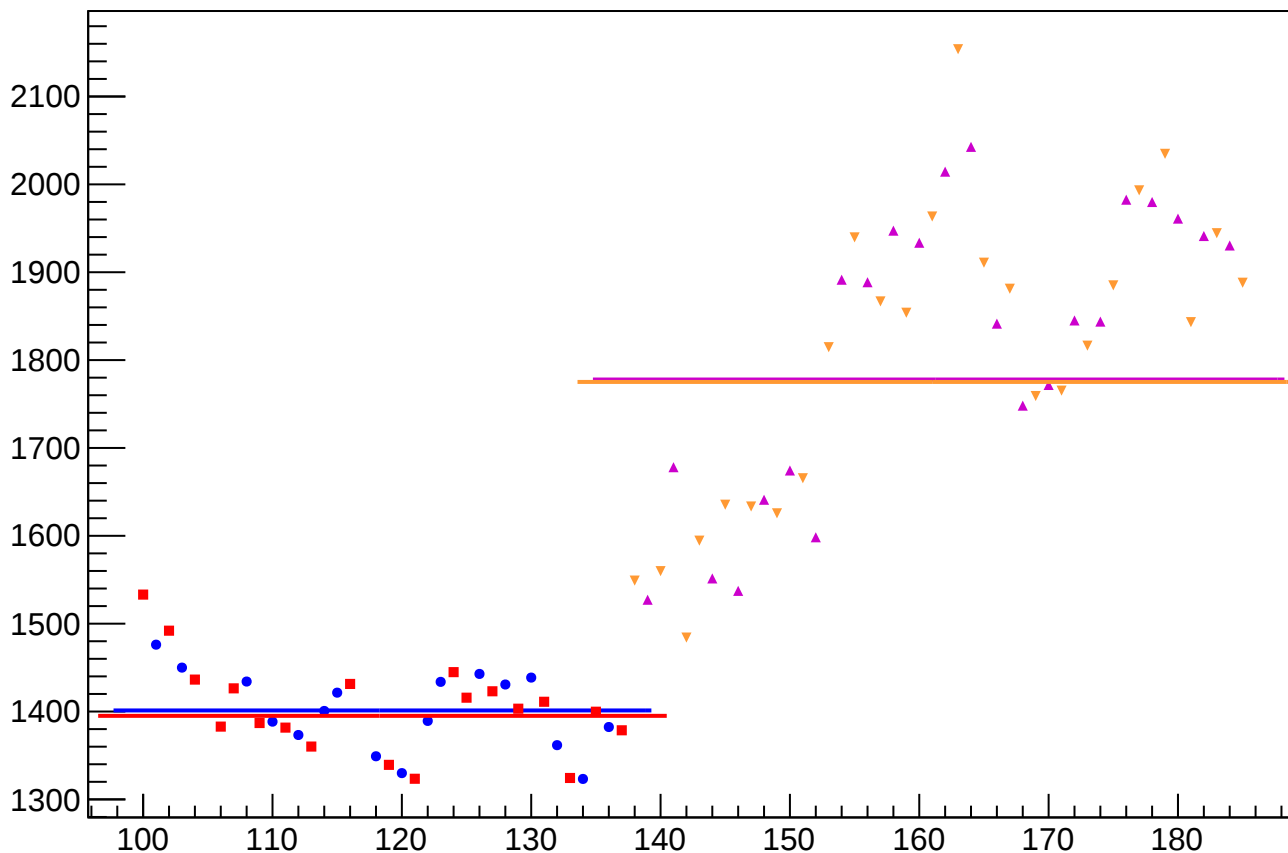
Right: -23.534 ± 0.376 χ^2/NDF : 8287.8/35

In: -0.481 ± 0.336 χ^2/NDF : 15256.8/39

Out: -3.182 ± 0.326 χ^2/NDF : 2558.4/43

All: -1.874 ± 0.234 χ^2/NDF : 17848.5/83

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.235 $\pm$ 0.382 χ^2 /NDF: 12839.4/16

Left Out: 1775.143 $\pm$ 0.295 χ^2 /NDF: 310641.2/24

Right Out: 1395.100 $\pm$ 0.370 χ^2 /NDF: 15523.2/18

Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

Left: 1776.473 $\pm$ 0.211 χ^2 /NDF: 610197.2/47

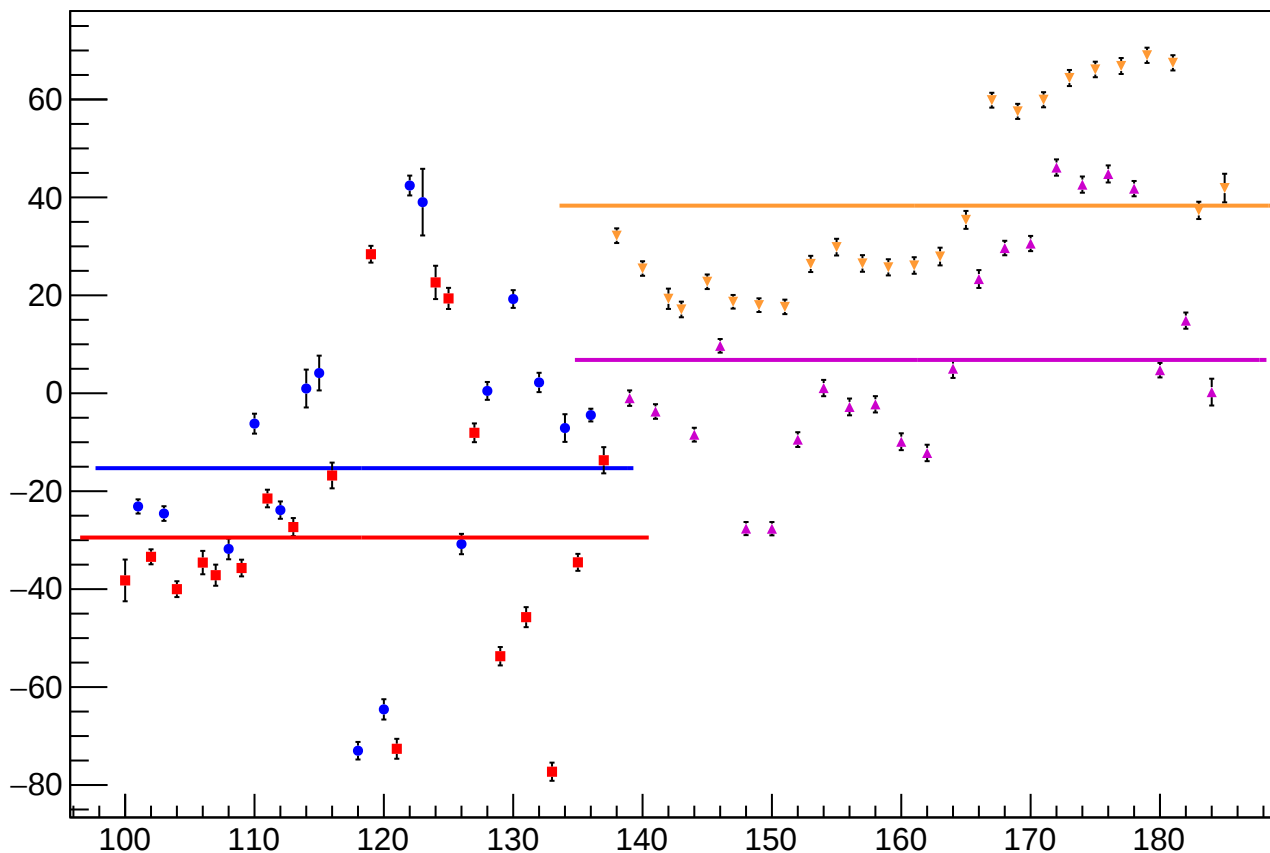
Right: 1398.064 $\pm$ 0.266 χ^2 /NDF: 28495.7/35

In: 1632.338 $\pm$ 0.238 χ^2 /NDF: 908016.3/39

Out: 1627.486 $\pm$ 0.230 χ^2 /NDF: 972729.9/43

All: 1629.837 $\pm$ 0.165 χ^2 /NDF: 1880961.2/83

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.296 ± 0.473 χ^2/NDF : 3345.6/16

Left Out: 38.315 ± 0.324 χ^2/NDF : 3492.4/24

Right Out: -29.461 ± 0.457 χ^2/NDF : 3528.0/18

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.980 ± 0.232 χ^2/NDF : 12582.3/47

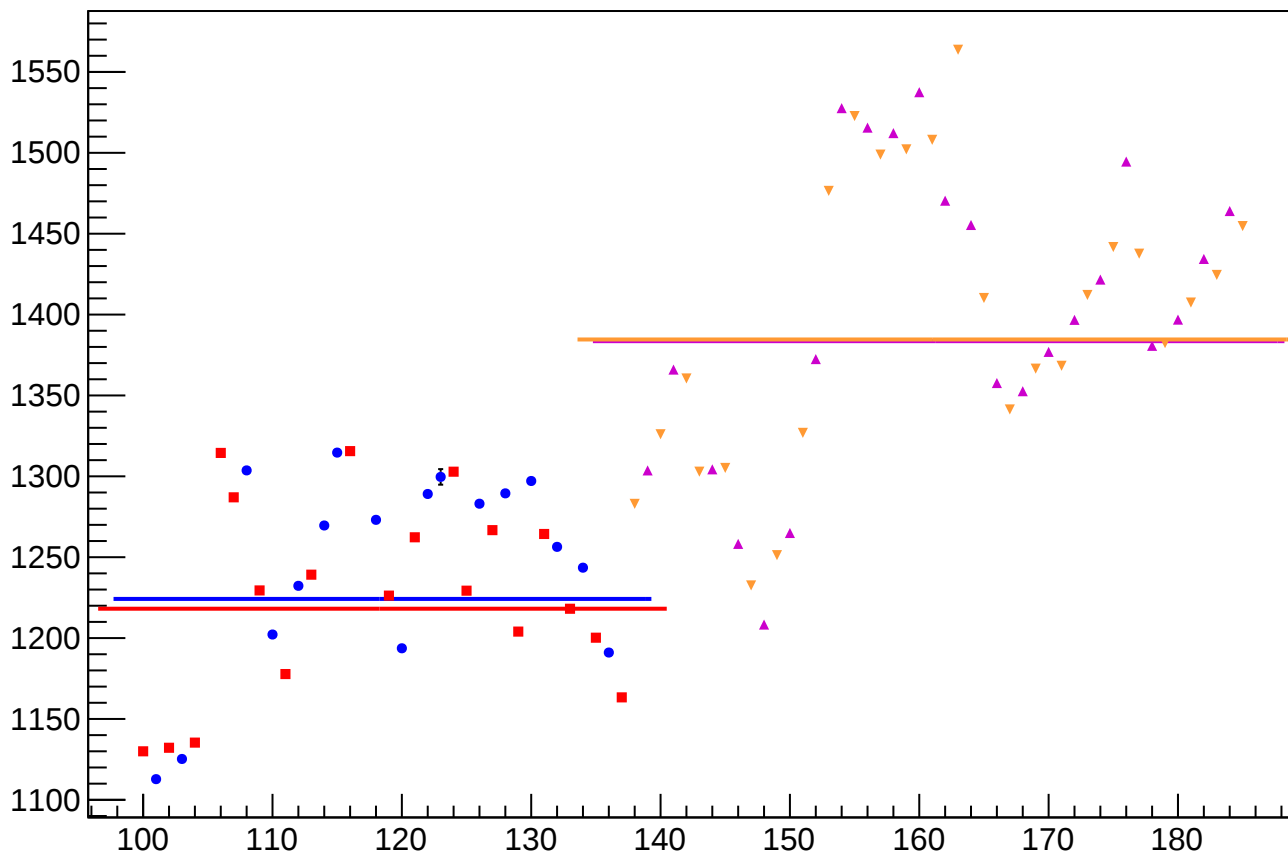
Right: -22.622 ± 0.329 χ^2/NDF : 7337.6/35

In: -0.518 ± 0.272 χ^2/NDF : 9300.7/39

Out: 15.614 ± 0.264 χ^2/NDF : 21654.6/43

All: 7.783 ± 0.190 χ^2/NDF : 32761.9/83

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.212 $\pm$ 0.334 χ^2 /NDF: 38774.7/16

Left Out: 1384.604 $\pm$ 0.229 χ^2 /NDF:147756.4/24

Right Out: 1218.154 $\pm$ 0.323 χ^2 /NDF: 27562.5/18

Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF:154696.0/22

Left: 1384.095 $\pm$ 0.164 χ^2 /NDF: 302462.5/47

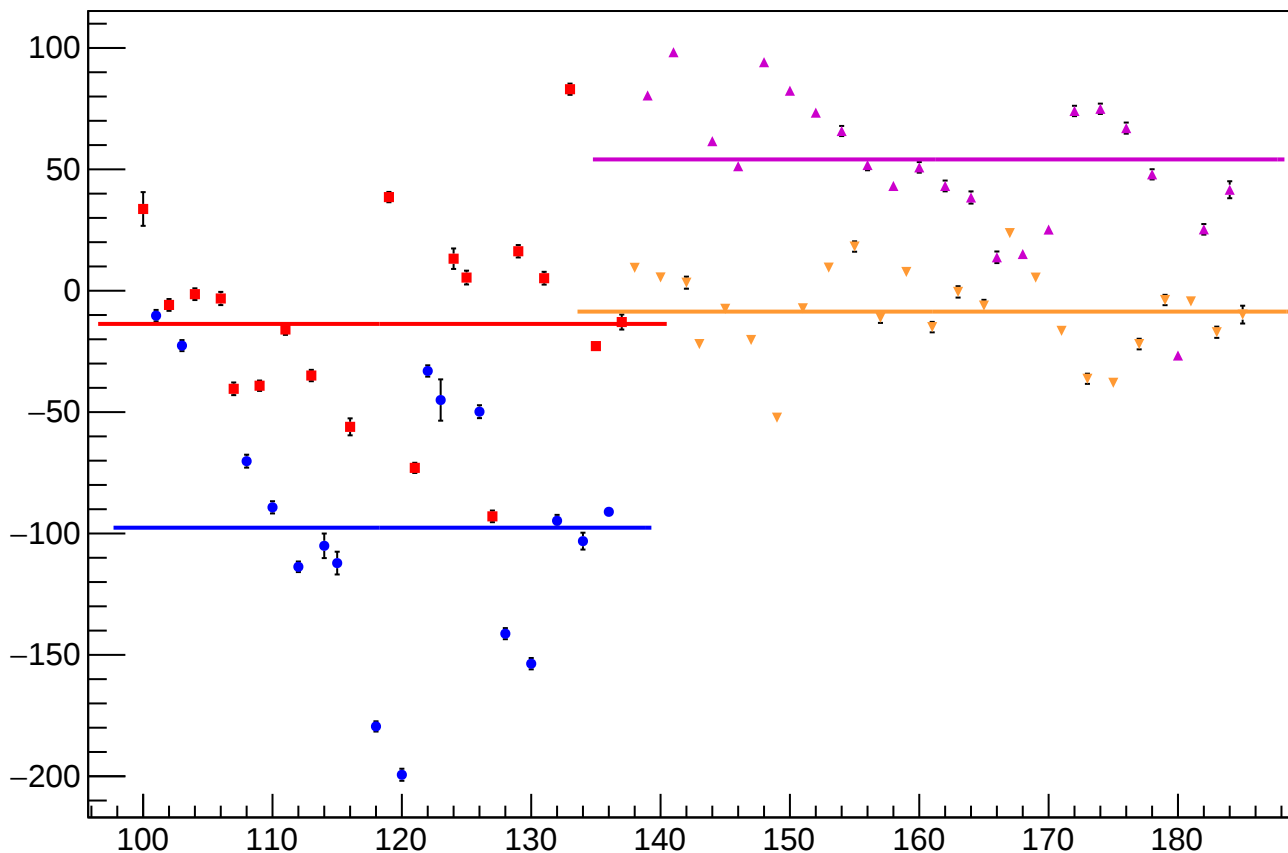
Right: 1221.079 $\pm$ 0.232 χ^2 /NDF: 66506.9/35

In: 1330.741 $\pm$ 0.193 χ^2 /NDF:345279.9/39

Out: 1328.851 $\pm$ 0.187 χ^2 /NDF:351844.9/43

All: 1329.768 $\pm$ 0.134 χ^2 /NDF: 697174.3/83

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.610+/-0.602 χ^2/NDF : 7919.3/16

Left Out: -8.596+/-0.411 χ^2/NDF :1935.0/24

Right Out: -13.666+/-0.580 χ^2/NDF : 5116.2/18

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

Left: 21.686+/-0.296 χ^2/NDF : 17867.9/47

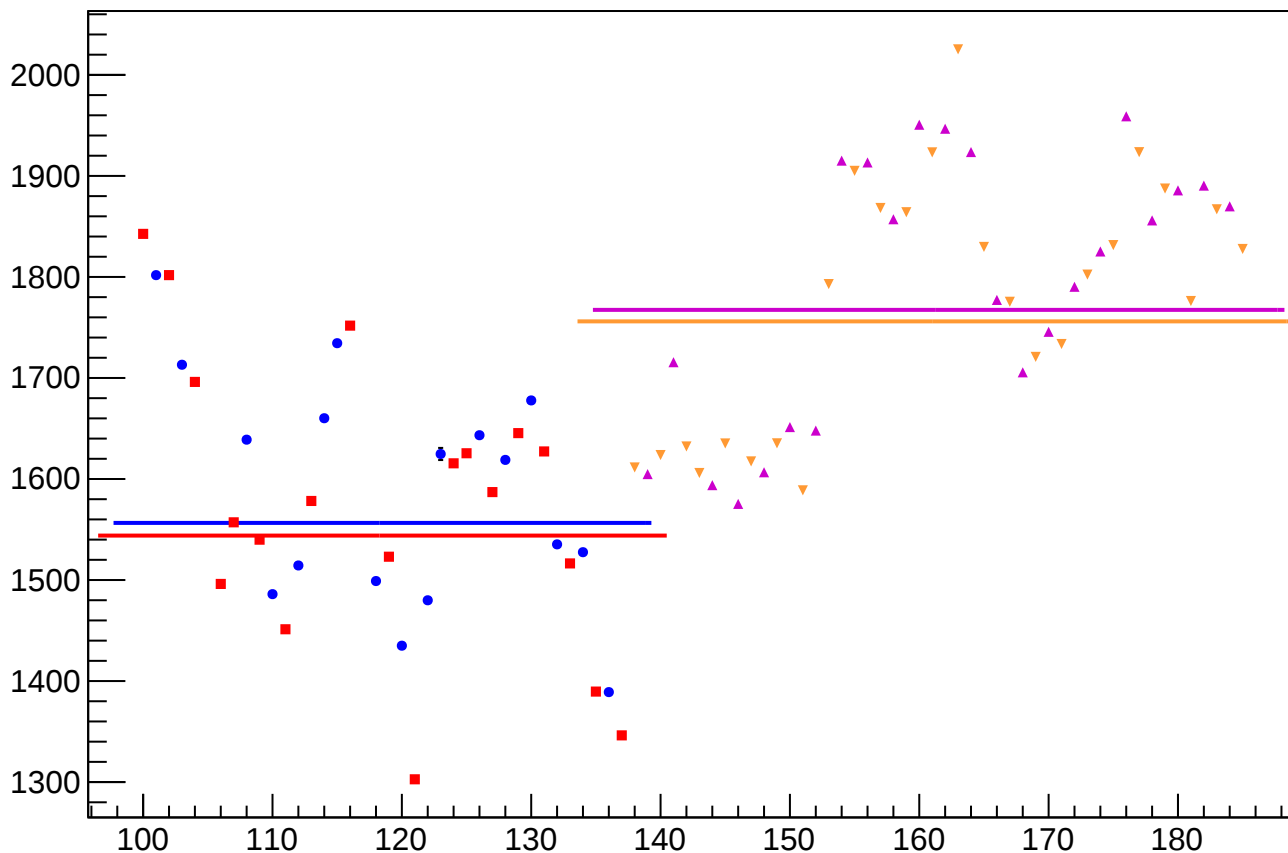
Right: -54.080+/-0.418 χ^2/NDF : 23109.2/35

In: 3.560+/-0.348 χ^2/NDF :54950.9/39

Out: -10.292+/-0.336 χ^2/NDF :7102.1/43

All: -3.608+/-0.241 χ^2/NDF : 62874.7/83

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.539 $\pm$ 0.426 χ^2 /NDF: 81438.3/16

Left Out: 1756.022 $\pm$ 0.291 χ^2 /NDF:177108.9/24

Right Out: 1543.993 $\pm$ 0.410 χ^2 /NDF: 100599.9/18

Left In: 1767.410 $\pm$ 0.301 χ^2 /NDF:187958.2/22

Left: 1761.524 $\pm$ 0.209 χ^2 /NDF: 365807.2/47

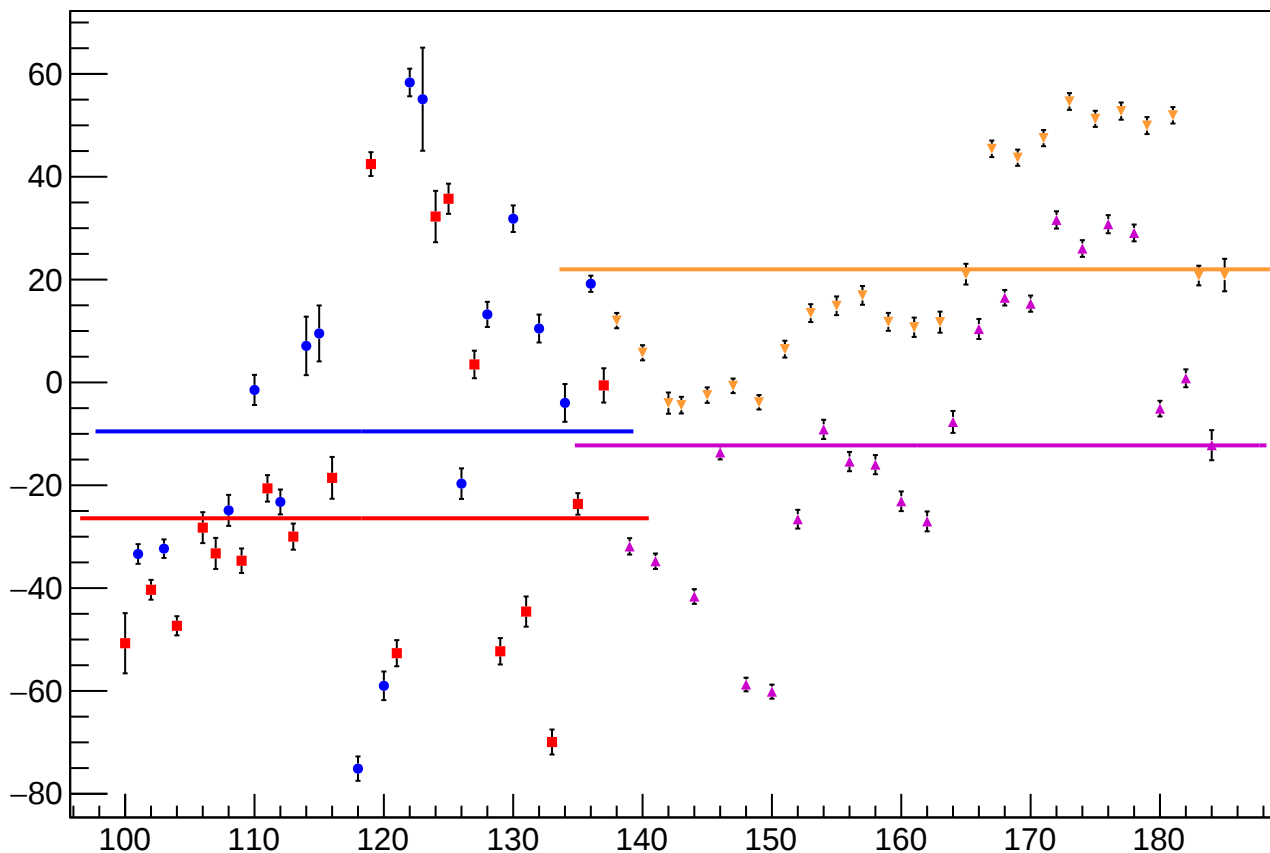
Right: 1550.033 $\pm$ 0.295 χ^2 /NDF: 182488.2/35

In: 1697.171 $\pm$ 0.246 χ^2 /NDF:432906.1/39

Out: 1685.087 $\pm$ 0.237 χ^2 /NDF:455371.8/43

All: 1690.918 $\pm$ 0.171 χ^2 /NDF: 889528.7/83

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.523 ± 0.627 $\chi^2/\text{NDF}: 2908.8/16$

Left Out: 21.998 ± 0.336 $\chi^2/\text{NDF}: 4076.1/24$

Right Out: -26.417 ± 0.604 $\chi^2/\text{NDF}: 2451.3/18$

Left In: -12.246 ± 0.347 $\chi^2/\text{NDF}: 6781.6/22$

Left: 5.415 ± 0.242 $\chi^2/\text{NDF}: 15878.8/47$

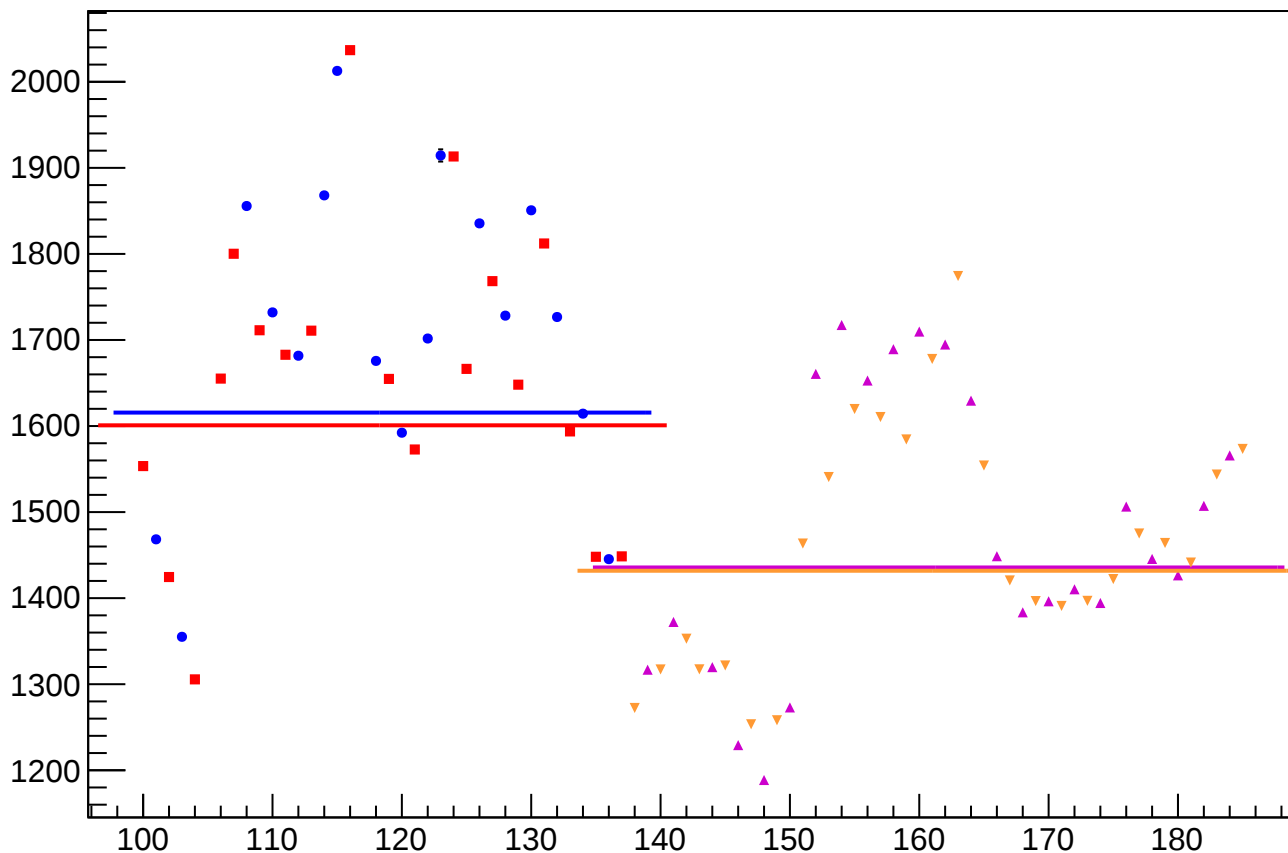
Right: -18.295 ± 0.435 $\chi^2/\text{NDF}: 5736.6/35$

In: -11.608 ± 0.304 $\chi^2/\text{NDF}: 9704.8/39$

Out: 10.532 ± 0.294 $\chi^2/\text{NDF}: 11436.1/43$

All: -0.171 ± 0.211 $\chi^2/\text{NDF}: 23886.4/83$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1615.627 ± 0.444 $\chi^2/\text{NDF}: 149190.0/16$

Left Out: 1431.844 ± 0.238 $\chi^2/\text{NDF}: 299156.4/24$

Right Out: 1600.836 ± 0.427 $\chi^2/\text{NDF}: 153528.6/18$

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

Left: 1433.685 ± 0.171 $\chi^2/\text{NDF}: 720115.2/47$

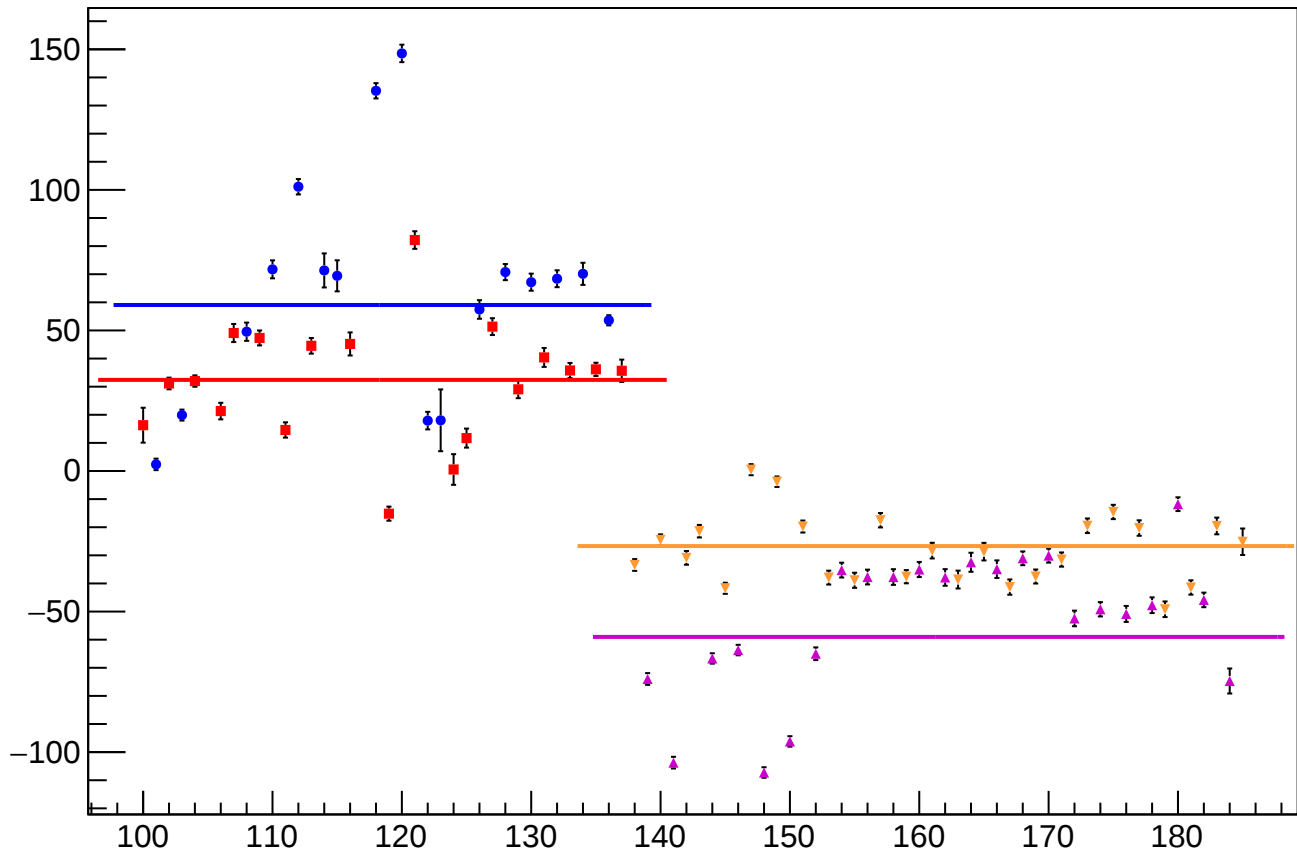
Right: 1607.947 ± 0.308 $\chi^2/\text{NDF}: 303295.8/35$

In: 1477.817 ± 0.215 $\chi^2/\text{NDF}: 696059.3/39$

Out: 1471.867 ± 0.208 $\chi^2/\text{NDF}: 572293.2/43$

All: 1474.743 ± 0.149 $\chi^2/\text{NDF}: 1268749.1/83$

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.057 ± 0.700 χ^2/NDF : 3293.2/16

Left Out: -26.708 ± 0.490 χ^2/NDF : 710.9/24

Right Out: 32.417 ± 0.667 χ^2/NDF : 888.1/18

Left In: -59.014 ± 0.506 χ^2/NDF : 2783.8/22

Left: -42.326 ± 0.352 χ^2/NDF : 5596.8/47

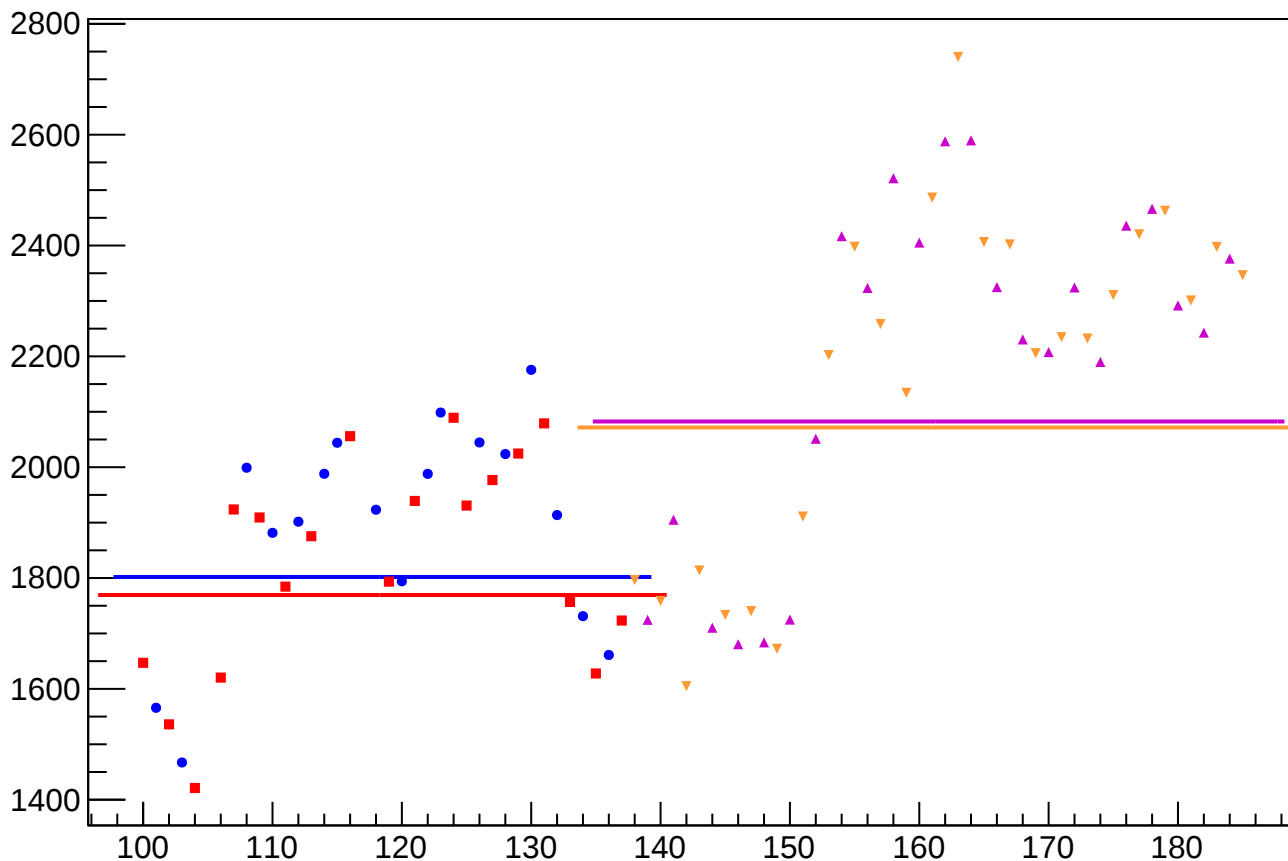
Right: 45.094 ± 0.483 χ^2/NDF : 4939.4/35

In: -18.483 ± 0.410 χ^2/NDF : 24736.7/39

Out: -6.004 ± 0.395 χ^2/NDF : 6698.5/43

All: -12.004 ± 0.285 χ^2/NDF : 31915.1/83

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1801.920+/-0.495 χ^2/NDF : 183555.8/16

Left Out: 2071.640+/-0.346 χ^2/NDF : 792647.7/24

Right Out: 1769.354+/-0.472 χ^2/NDF : 177813.0/18

Left In: 2082.497+/-0.358 χ^2/NDF : 785304.0/22

Left: 2076.889+/-0.249 χ^2/NDF : 1578426.5/47

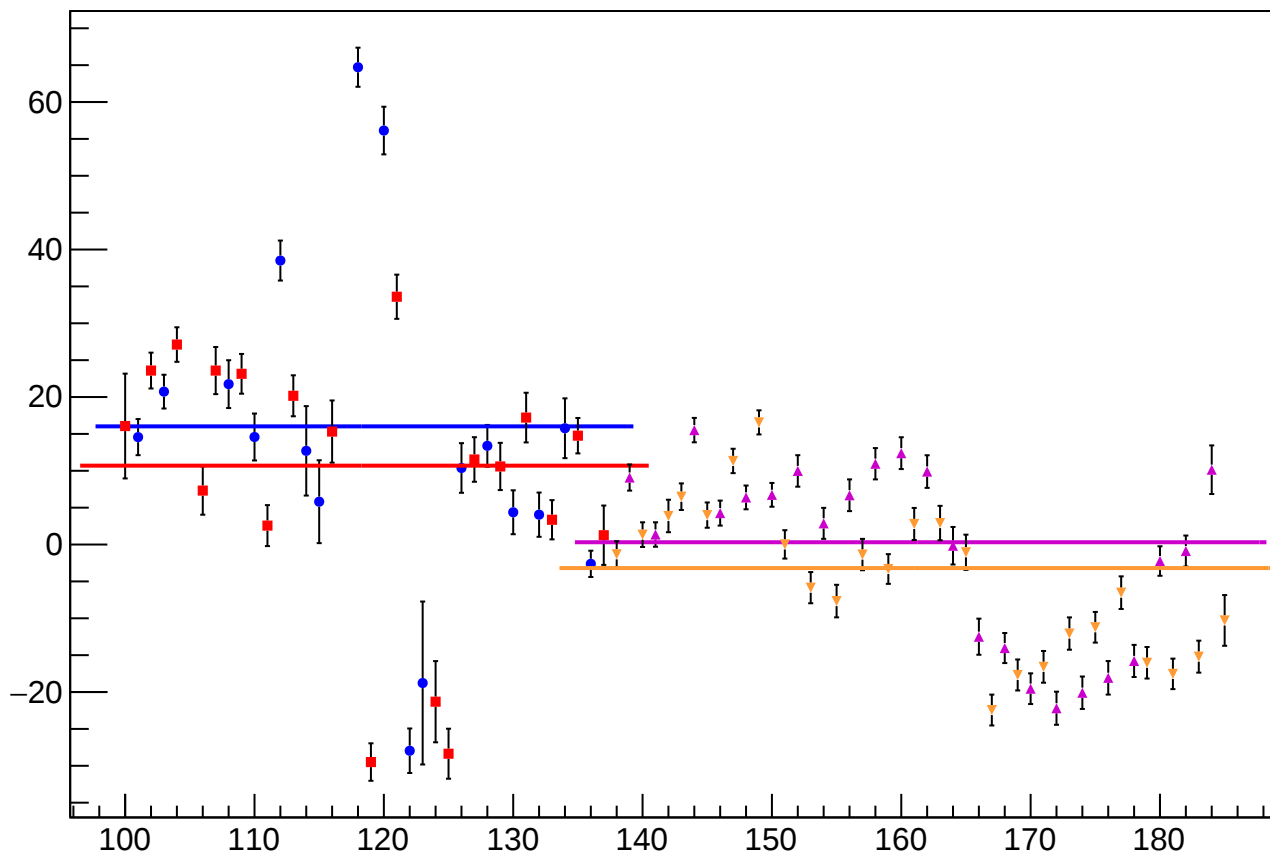
Right: 1784.851+/-0.342 χ^2/NDF : 363634.8/35

In: 1986.181+/-0.290 χ^2/NDF : 1179603.3/39

Out: 1965.791+/-0.279 χ^2/NDF : 1237056.0/43

All: 1975.595+/-0.201 χ^2/NDF : 2419222.6/83

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 16.023 $\pm$ 0.723 χ^2 /NDF: 938.1/16

Left Out: -3.190 $\pm$ 0.406 χ^2 /NDF: 636.5/24

Right Out: 10.695 $\pm$ 0.694 χ^2 /NDF: 632.7/18

Left In: 0.312 $\pm$ 0.421 χ^2 /NDF: 736.5/22

Left: -1.504 $\pm$ 0.292 χ^2 /NDF: 1408.8/47

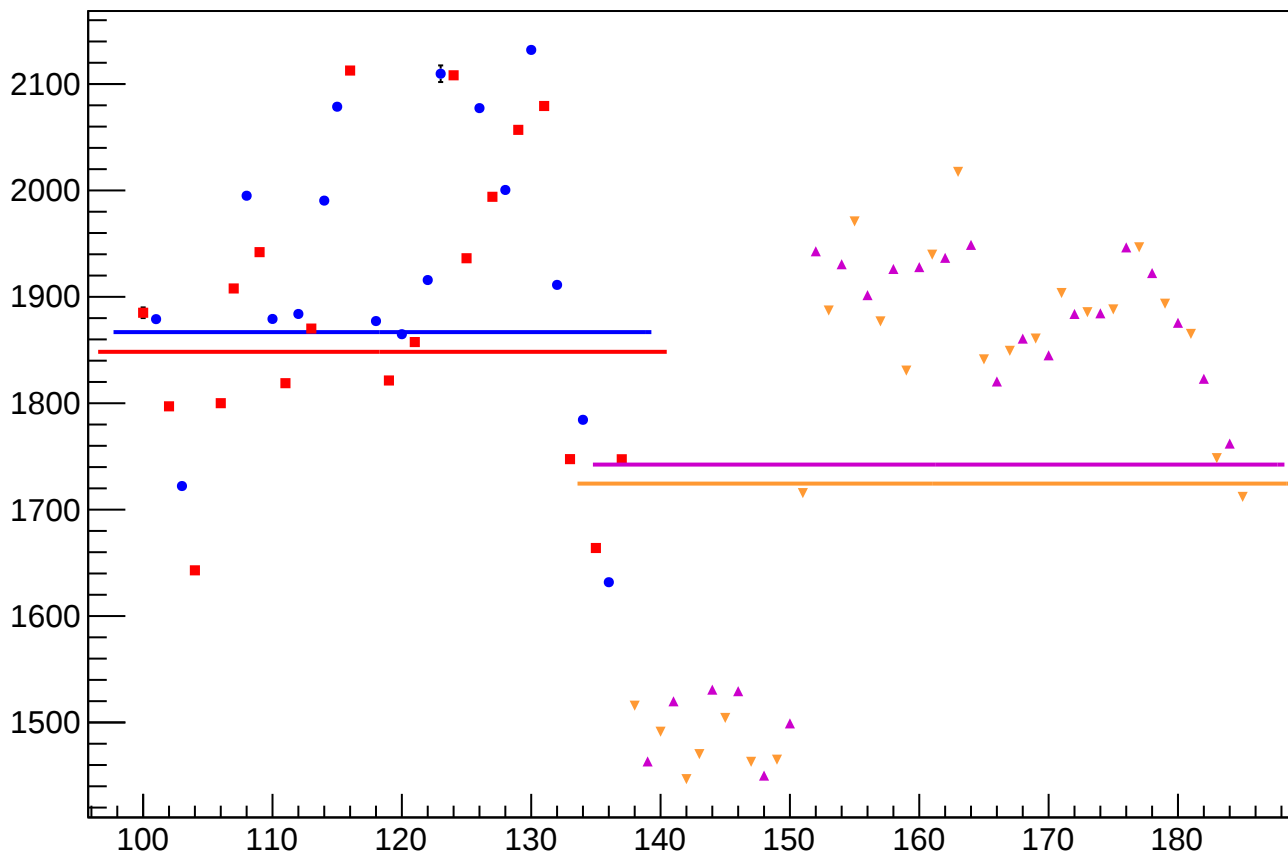
Right: 13.253 $\pm$ 0.501 χ^2 /NDF: 1599.1/35

In: 4.294 $\pm$ 0.364 χ^2 /NDF: 2027.4/39

Out: 0.344 $\pm$ 0.350 χ^2 /NDF: 1567.2/43

All: 2.245 $\pm$ 0.252 χ^2 /NDF: 3655.8/83

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1866.855 ± 0.511 $\chi^2/\text{NDF}: 80657.5/16$

Left Out: 1724.480 ± 0.287 $\chi^2/\text{NDF}: 475023.7/24$

Right Out: 1848.333 ± 0.491 $\chi^2/\text{NDF}: 72586.9/18$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1733.087 ± 0.207 $\chi^2/\text{NDF}: 912733.5/47$

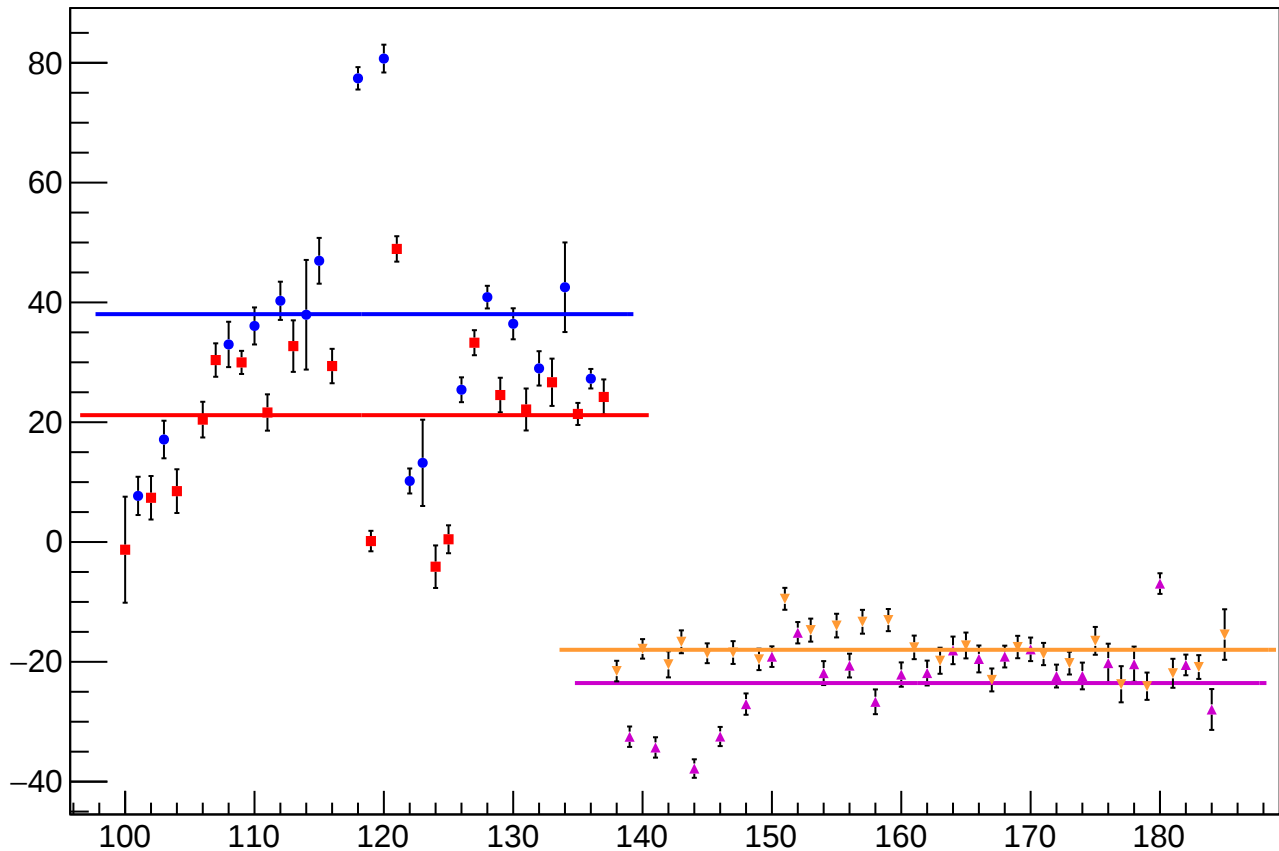
Right: 1857.225 ± 0.354 $\chi^2/\text{NDF}: 153927.5/35$

In: 1773.908 ± 0.257 $\chi^2/\text{NDF}: 560812.2/39$

Out: 1756.007 ± 0.248 $\chi^2/\text{NDF}: 595036.0/43$

All: 1764.620 ± 0.178 $\chi^2/\text{NDF}: 1158360.2/83$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 38.041 $\pm$ 0.639 χ^2 /NDF: 1207.6/16

Left Out: -17.991 $\pm$ 0.398 χ^2 /NDF: 74.1/24

Right Out: 21.178 $\pm$ 0.610 χ^2 /NDF: 570.0/18

Left In: -23.544 $\pm$ 0.406 χ^2 /NDF: 346.7/22

Left: -20.717 $\pm$ 0.284 χ^2 /NDF: 516.2/47

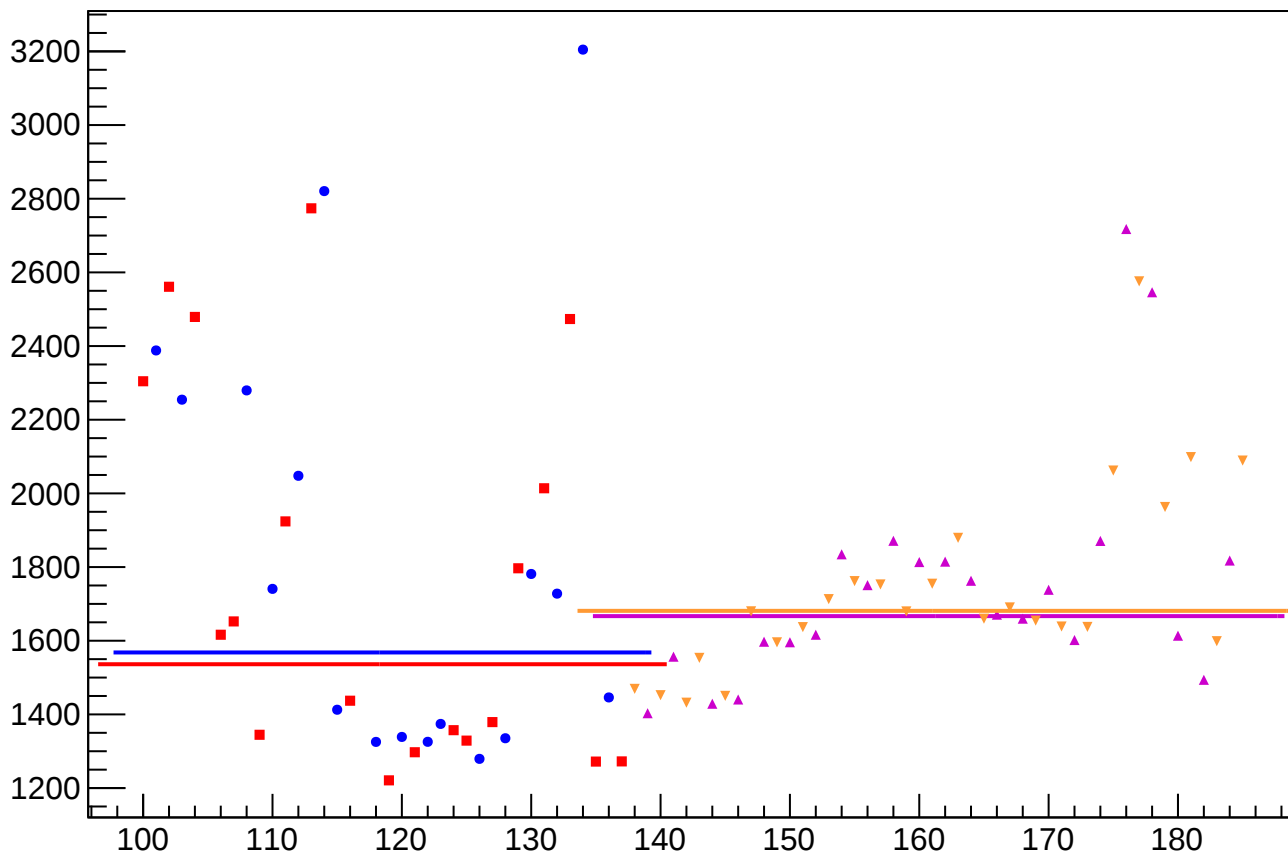
Right: 29.215 $\pm$ 0.441 χ^2 /NDF: 2142.4/35

In: -5.845 $\pm$ 0.342 χ^2 /NDF: 8178.5/39

Out: -6.274 $\pm$ 0.333 χ^2 /NDF: 3538.0/43

All: -6.065 $\pm$ 0.239 χ^2 /NDF: 11717.3/83

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1568.172 $\pm$ 0.452 χ^2/NDF : 668072.7/16

Left Out: 1681.152 $\pm$ 0.282 χ^2/NDF : 520098.3/24

Right Out: 1536.208 $\pm$ 0.431 χ^2/NDF : 882312.9/18

Left In: 1666.819 $\pm$ 0.287 χ^2/NDF : 650990.8/22

Left: 1674.118 $\pm$ 0.201 χ^2/NDF : 1172360.7/47

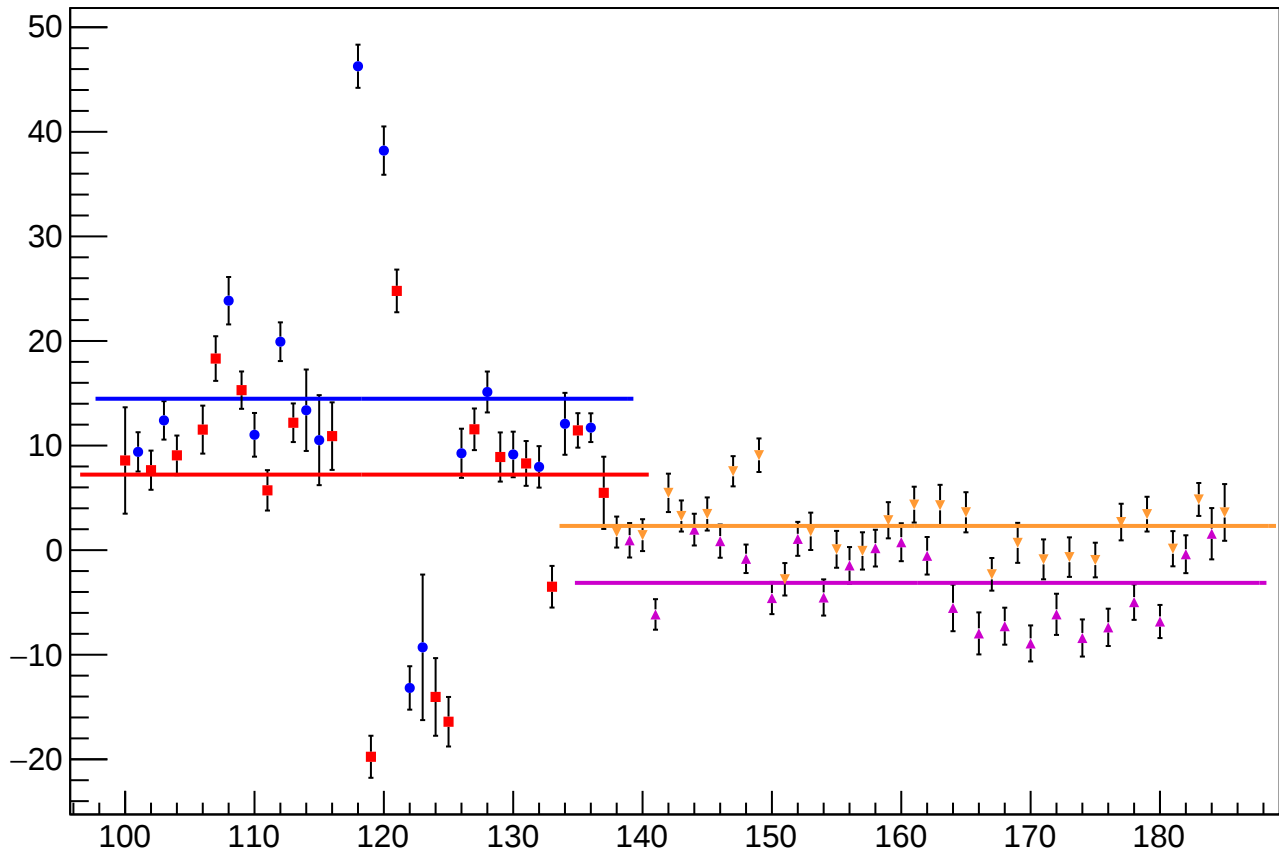
Right: 1551.443 $\pm$ 0.312 χ^2/NDF : 1553006.8/35

In: 1638.468 $\pm$ 0.242 χ^2/NDF : 1353054.2/39

Out: 1637.793 $\pm$ 0.236 χ^2/NDF : 1481666.2/43

All: 1638.121 $\pm$ 0.169 χ^2/NDF : 2834724.4/83

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.477 $\pm$ 0.524 χ^2/NDF : 596.5/16

Left Out: 2.316 $\pm$ 0.340 χ^2/NDF : 76.2/24

Right Out: 7.223 $\pm$ 0.495 χ^2/NDF : 489.0/18

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.268 $\pm$ 0.246 χ^2/NDF : 301.3/47

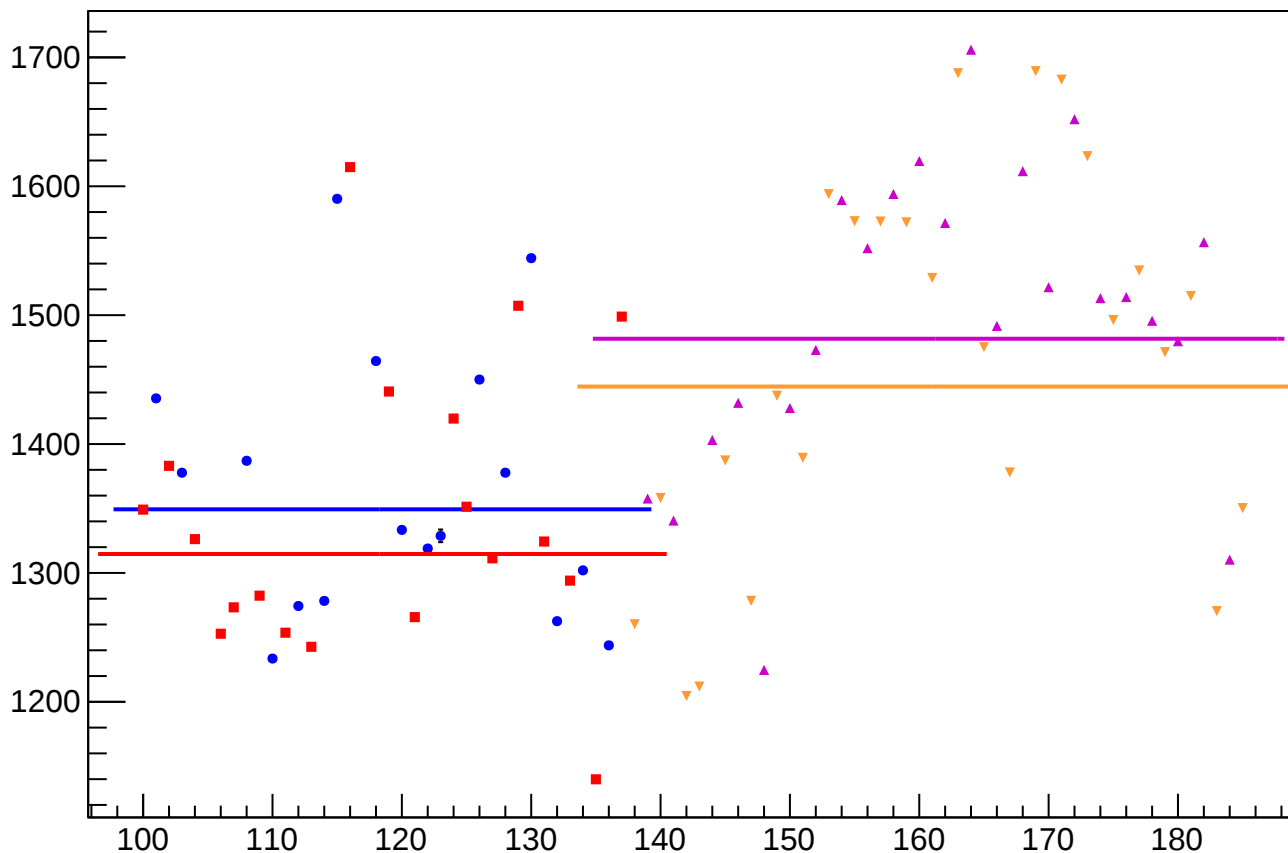
Right: 10.645 $\pm$ 0.360 χ^2/NDF : 1186.7/35

In: 2.465 $\pm$ 0.295 χ^2/NDF : 1469.9/39

Out: 3.887 $\pm$ 0.280 χ^2/NDF : 631.9/43

All: 3.214 $\pm$ 0.203 χ^2/NDF : 2114.0/83

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.357 $\pm$ 0.371 χ^2 /NDF: 64580.7/16

Left Out: 1444.628 $\pm$ 0.240 χ^2 /NDF: 357880.5/24

Right Out: 1314.682 $\pm$ 0.350 χ^2 /NDF: 80983.6/18

Left In: 1481.695 $\pm$ 0.253 χ^2 /NDF: 208470.6/22

Left: 1462.217 $\pm$ 0.174 χ^2 /NDF: 577640.4/47

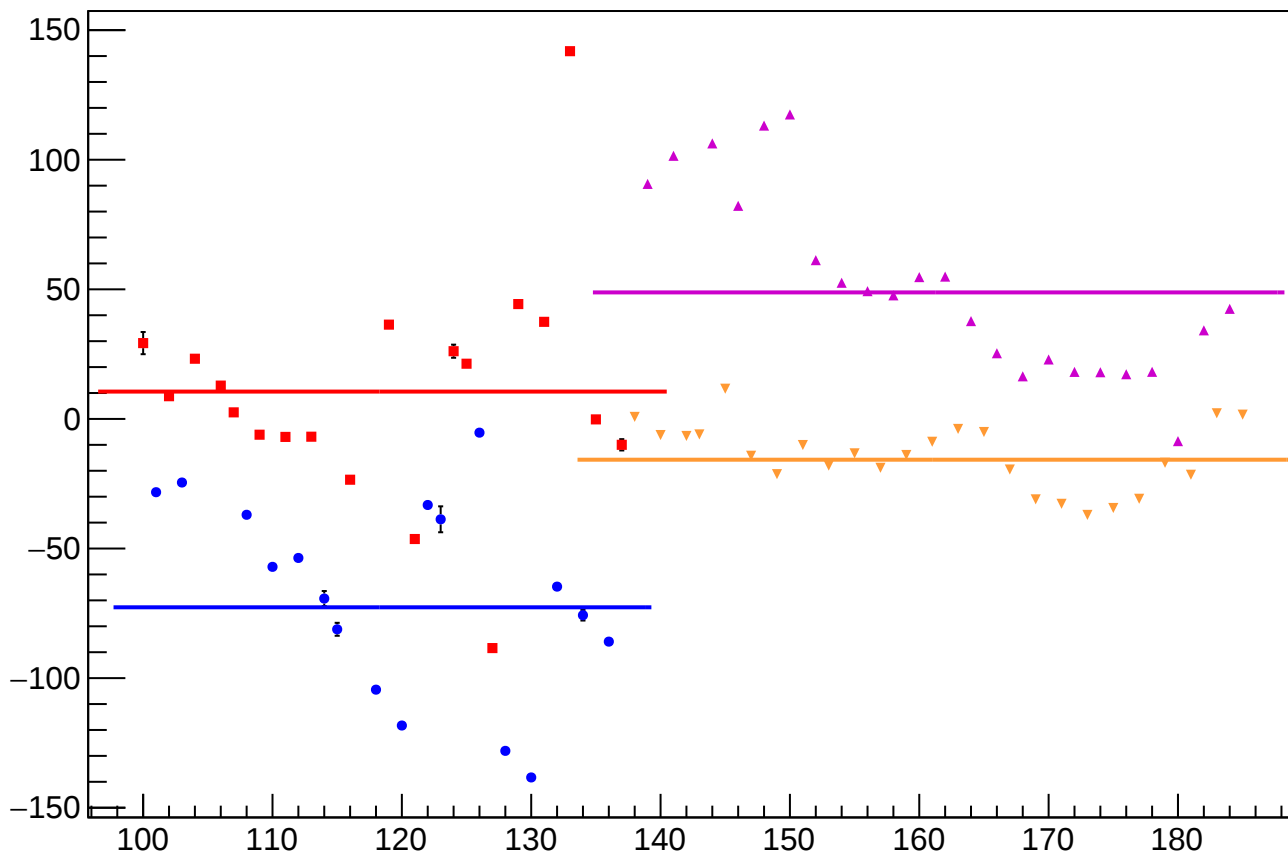
Right: 1331.041 $\pm$ 0.255 χ^2 /NDF: 150189.5/35

In: 1439.647 $\pm$ 0.209 χ^2 /NDF: 360062.3/39

Out: 1403.026 $\pm$ 0.198 χ^2 /NDF: 532468.2/43

All: 1420.371 $\pm$ 0.144 χ^2 /NDF: 908708.7/83

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.674 $\pm$ 0.363 χ^2/NDF : 11603.9/16

Left Out: -15.731 $\pm$ 0.212 χ^2/NDF : 3501.0/24

Right Out: 10.552 $\pm$ 0.353 χ^2/NDF : 18145.5/18

Left In: 48.812 $\pm$ 0.220 χ^2/NDF : 25260.8/22

Left: 15.380 $\pm$ 0.153 χ^2/NDF : 73396.8/47

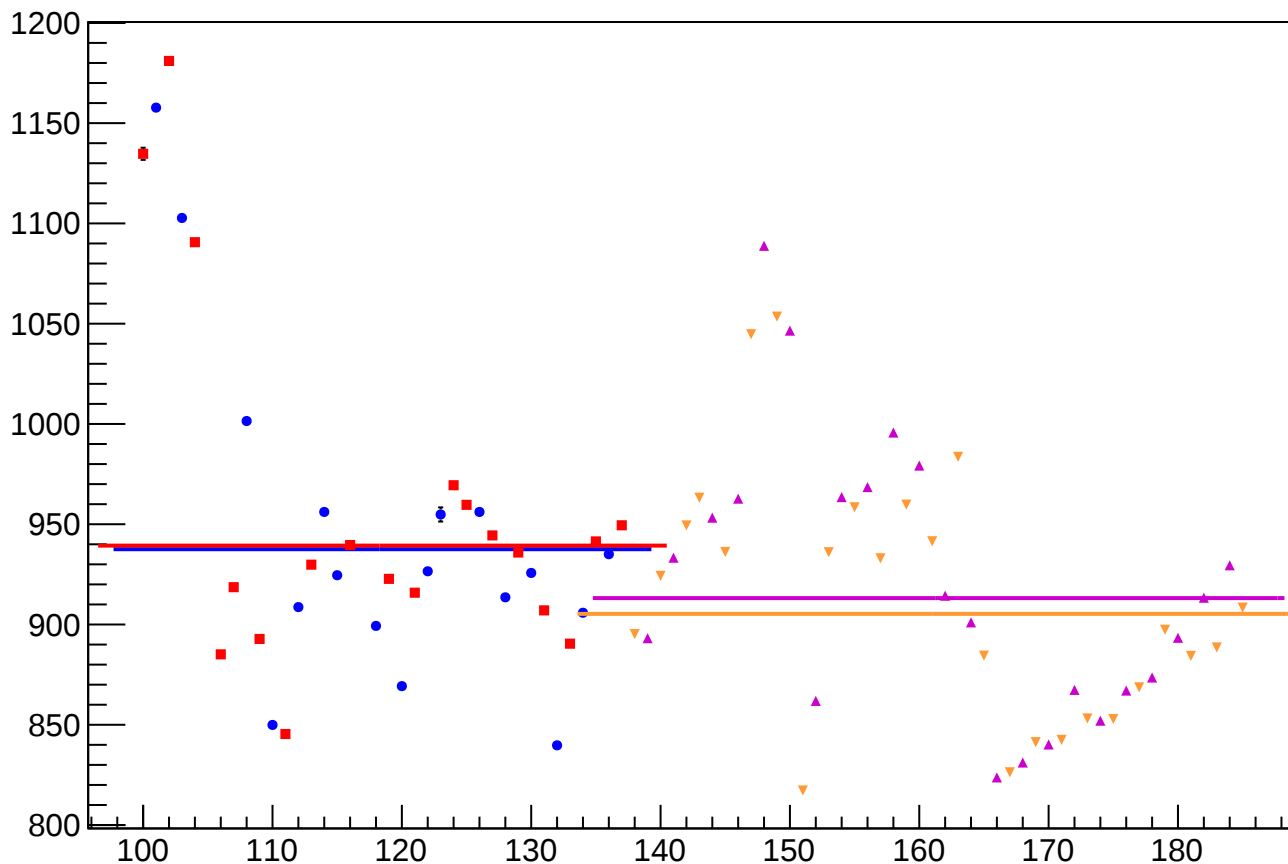
Right: -29.893 $\pm$ 0.253 χ^2/NDF : 56765.3/35

In: 16.208 $\pm$ 0.188 χ^2/NDF : 118797.1/39

Out: -8.759 $\pm$ 0.182 χ^2/NDF : 25720.0/43

All: 3.302 $\pm$ 0.131 χ^2/NDF : 153627.2/83

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.550 ± 0.257 χ^2/NDF : 98231.3/16

Left Out: 905.307 ± 0.150 χ^2/NDF : 161403.4/24

Right Out: 939.341 ± 0.250 χ^2/NDF : 90084.9/18

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.095 ± 0.108 χ^2/NDF : 337165.4/47

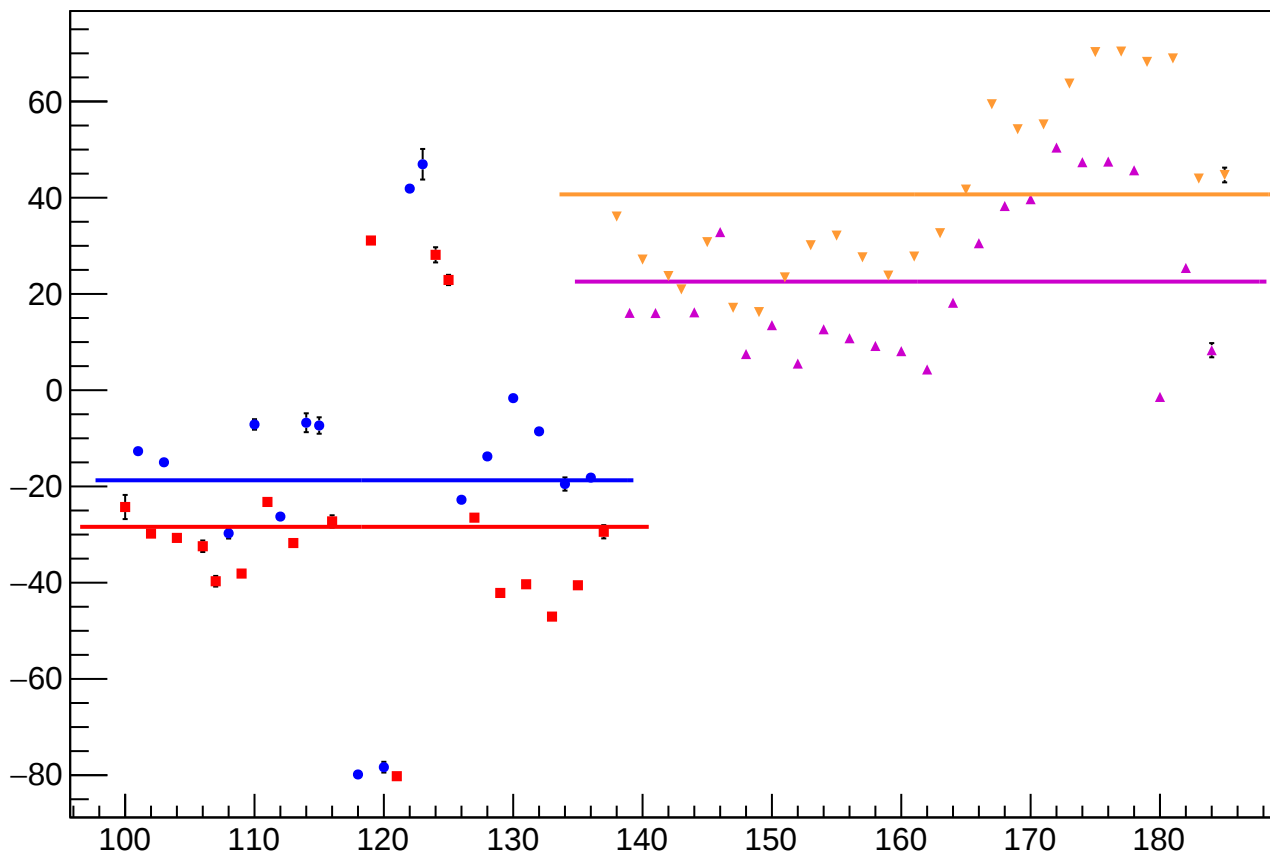
Right: 938.471 ± 0.179 χ^2/NDF : 188341.3/35

In: 919.709 ± 0.133 χ^2/NDF : 279272.0/39

Out: 914.336 ± 0.129 χ^2/NDF : 265149.1/43

All: 916.932 ± 0.092 χ^2/NDF : 545265.1/83

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.723 ± 0.243 χ^2/NDF : 12999.6/16

Left Out: 40.689 ± 0.168 χ^2/NDF : 12011.7/24

Right Out: -28.395 ± 0.236 χ^2/NDF : 12424.6/18

Left In: 22.565 ± 0.175 χ^2/NDF : 8167.7/22

Left: 31.986 ± 0.121 χ^2/NDF : 25737.0/47

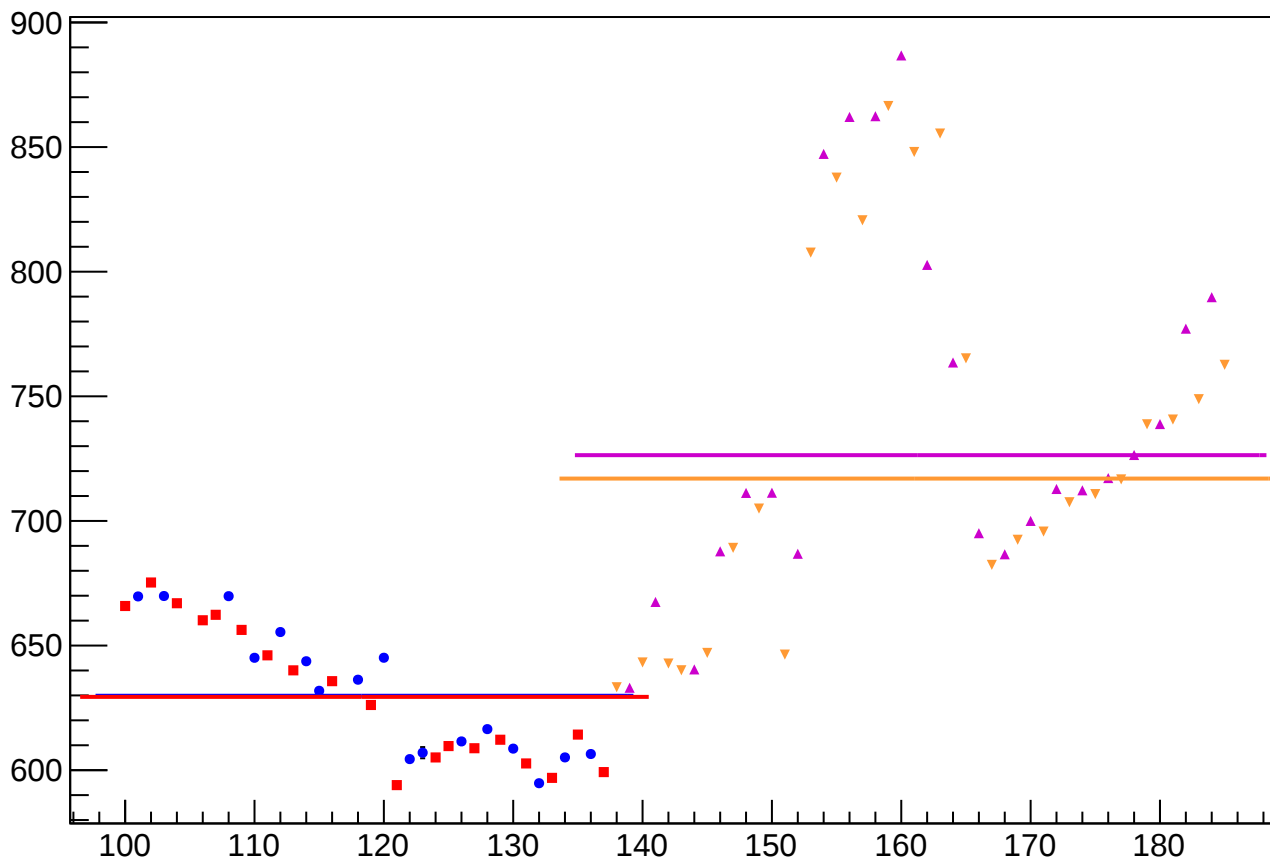
Right: -23.705 ± 0.169 χ^2/NDF : 26239.5/35

In: 8.443 ± 0.142 χ^2/NDF : 40145.7/39

Out: 17.352 ± 0.137 χ^2/NDF : 81241.1/43

All: 13.060 ± 0.099 χ^2/NDF : 123421.8/83

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.857+/-0.172 χ^2/NDF : 23252.7/16

Left Out: 716.998+/-0.119 χ^2/NDF : 340479.2/24

Right Out: 629.413+/-0.167 χ^2/NDF : 25484.3/18

Left In: 726.390+/-0.124 χ^2/NDF : 289788.8/22

Left: 721.508+/-0.086 χ^2/NDF : 633252.7/47

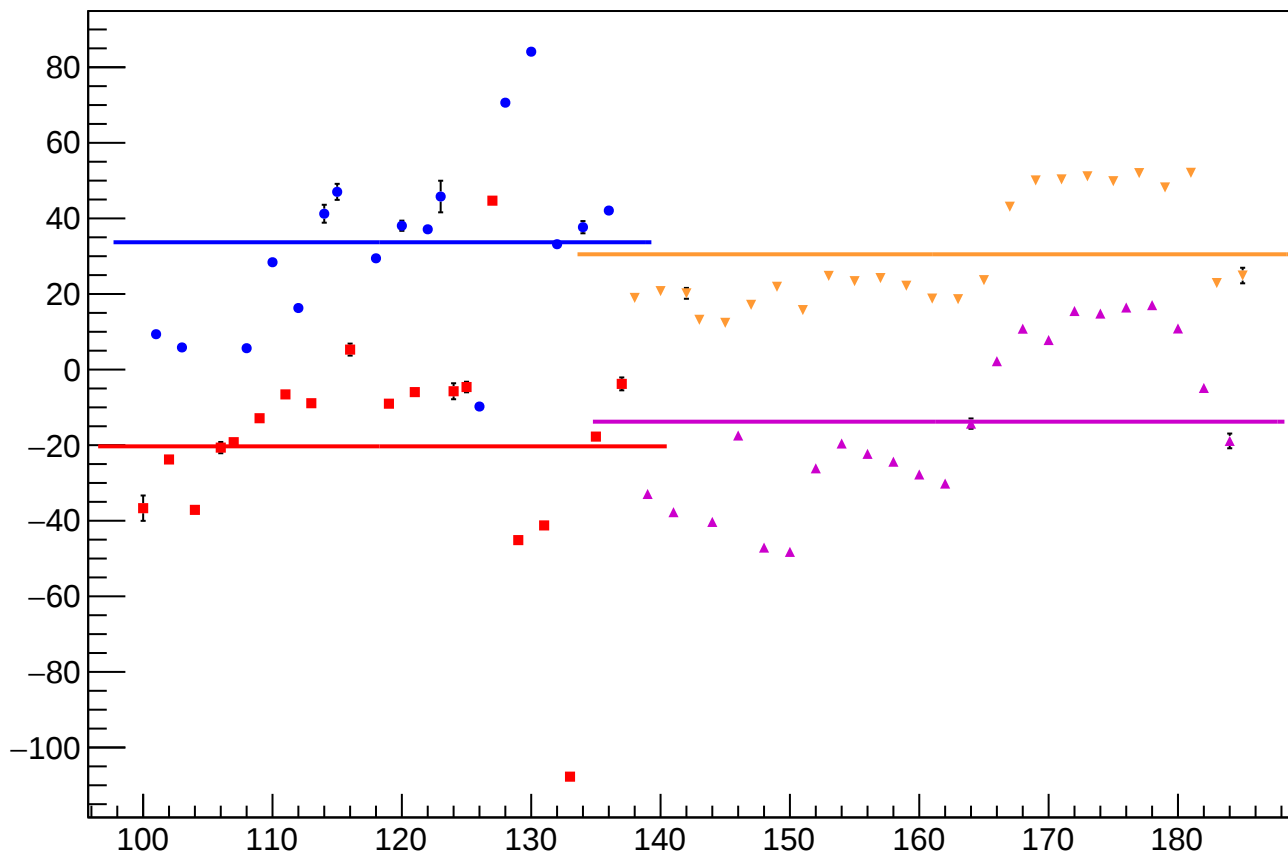
Right: 629.628+/-0.120 χ^2/NDF : 48740.5/35

In: 693.371+/-0.101 χ^2/NDF : 520528.4/39

Out: 687.411+/-0.097 χ^2/NDF : 548572.0/43

All: 690.282+/-0.070 χ^2/NDF : 1070921.4/83

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.692 $\pm$ 0.300 χ^2 /NDF: 6428.2/16

Left Out: 30.508 $\pm$ 0.238 χ^2 /NDF:3781.6/24

Right Out: -20.314 $\pm$ 0.293 χ^2 /NDF: 11278.0/18

Left In: -13.787 $\pm$ 0.246 χ^2 /NDF:7979.7/22

Left: 9.059 $\pm$ 0.171 χ^2 /NDF: 28506.3/47

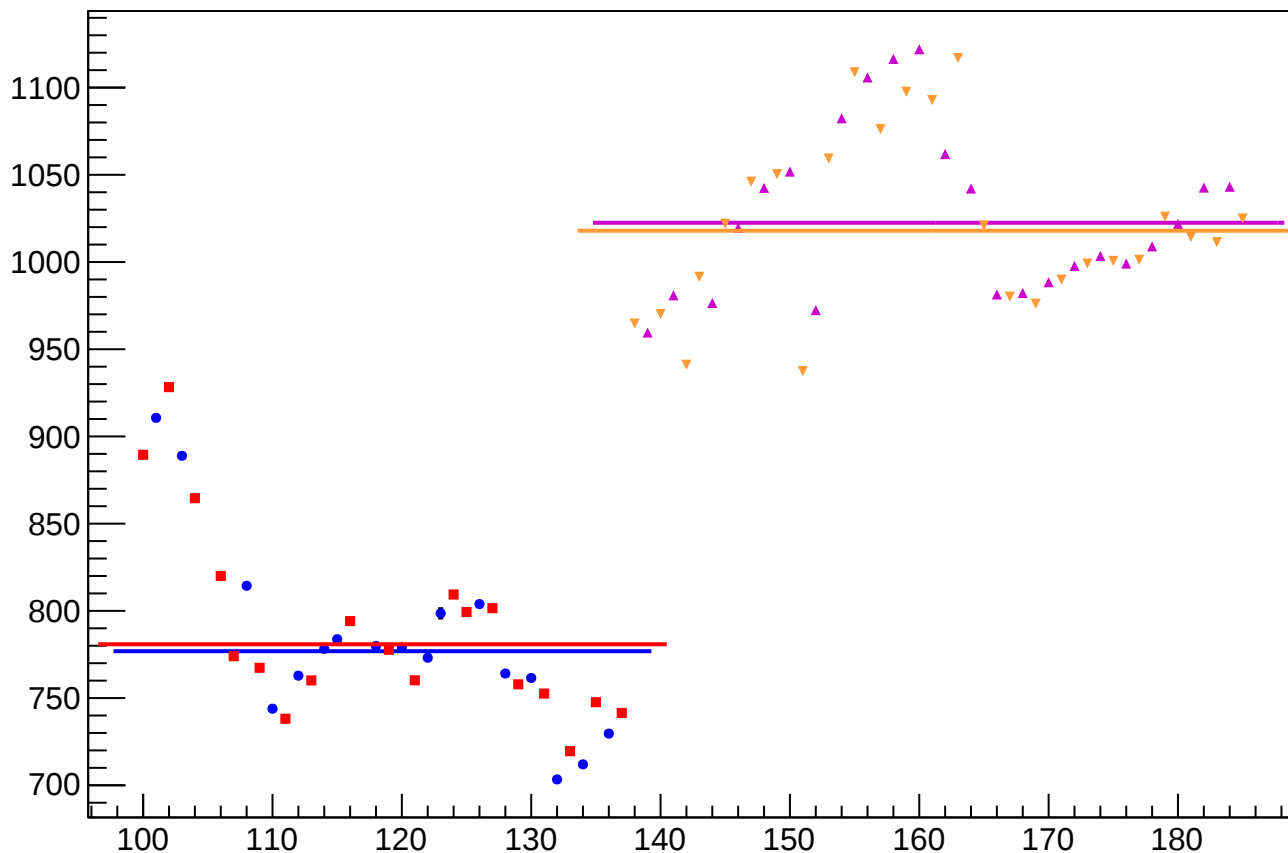
Right: 6.016 $\pm$ 0.210 χ^2 /NDF: 34265.5/35

In: 5.253 $\pm$ 0.190 χ^2 /NDF:29367.1/39

Out: 10.288 $\pm$ 0.185 χ^2 /NDF:33170.7/43

All: 7.844 $\pm$ 0.133 χ^2 /NDF: 62898.1/83

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.869 $\pm$ 0.212 χ^2 /NDF: 67447.3/16

Left Out: 1017.944 $\pm$ 0.168 χ^2 /NDF: 83218.6/24

Right Out: 780.840 $\pm$ 0.207 χ^2 /NDF: 57297.9/18

Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF: 69635.5/22

Left: 1020.156 $\pm$ 0.121 χ^2 /NDF: 153210.1/47

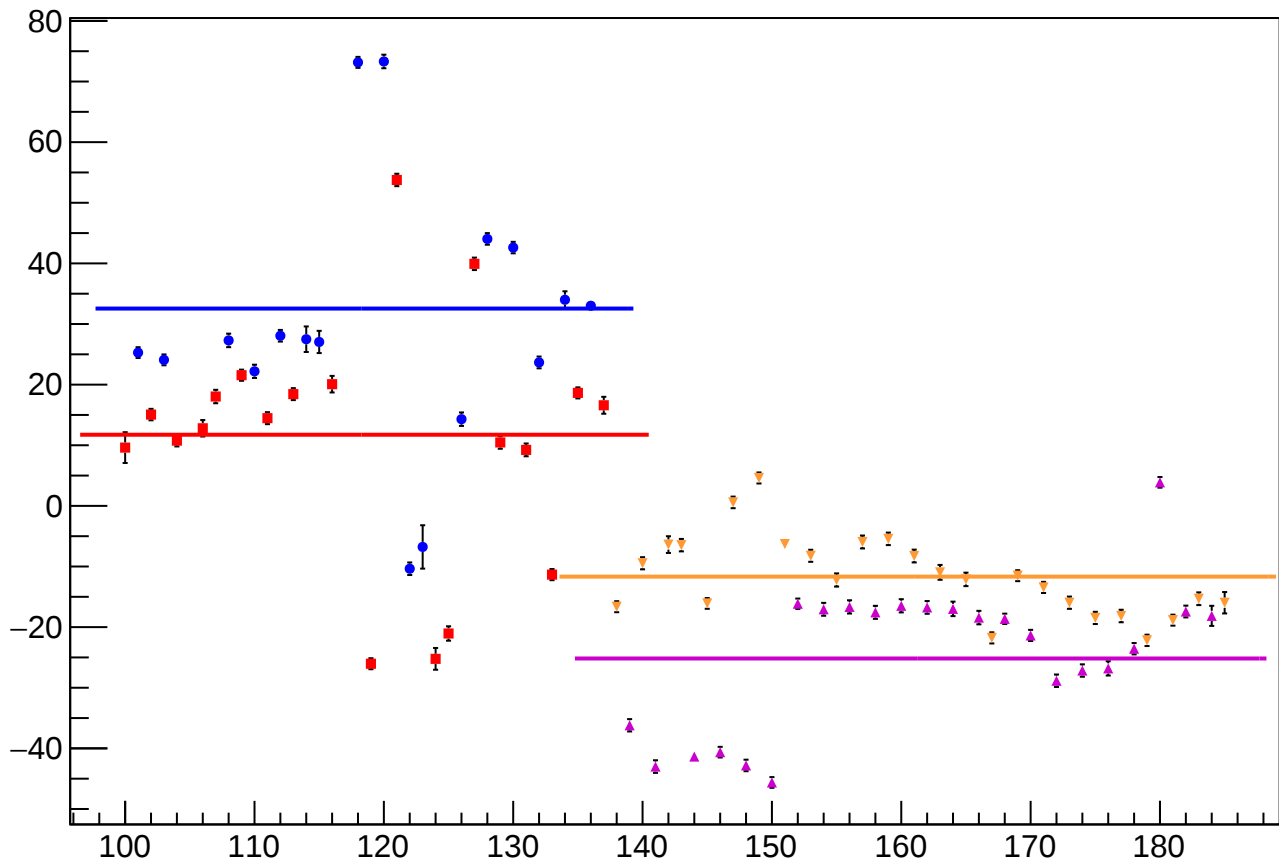
Right: 778.904 $\pm$ 0.148 χ^2 /NDF: 124924.2/35

In: 924.002 $\pm$ 0.135 χ^2 /NDF: 937923.9/39

Out: 923.611 $\pm$ 0.131 χ^2 /NDF: 928951.7/43

All: 923.801 $\pm$ 0.094 χ^2 /NDF: 1866880.0/83

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.550 ± 0.253 χ^2/NDF : 6077.4/16

Left Out: -11.670 ± 0.201 χ^2/NDF : 1147.9/24

Right Out: 11.737 ± 0.247 χ^2/NDF : 6313.2/18

Left In: -25.174 ± 0.207 χ^2/NDF : 3747.1/22

Left: -18.200 ± 0.144 χ^2/NDF : 7084.7/47

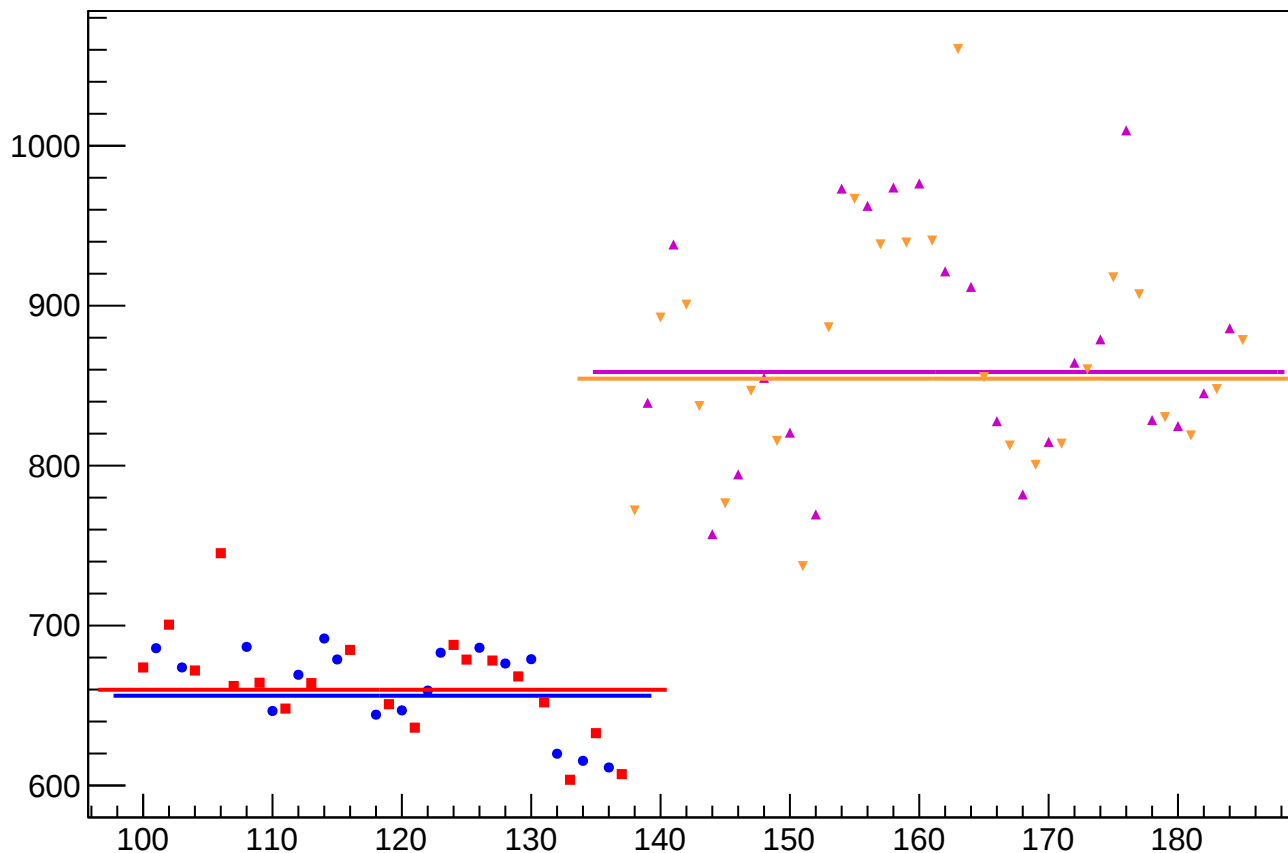
Right: 21.899 ± 0.177 χ^2/NDF : 15845.9/35

In: -2.008 ± 0.160 χ^2/NDF : 40918.7/39

Out: -2.381 ± 0.156 χ^2/NDF : 12859.4/43

All: -2.200 ± 0.112 χ^2/NDF : 53780.8/83

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.132+/-0.179 χ^2/NDF : 23518.0/16

Left Out: 854.372+/-0.142 χ^2/NDF :234308.1/24

Right Out: 659.855+/-0.175 χ^2/NDF : 28270.5/18

Left In: 858.563+/-0.147 χ^2/NDF :239019.8/22

Left: 856.399+/-0.102 χ^2/NDF : 473749.8/47

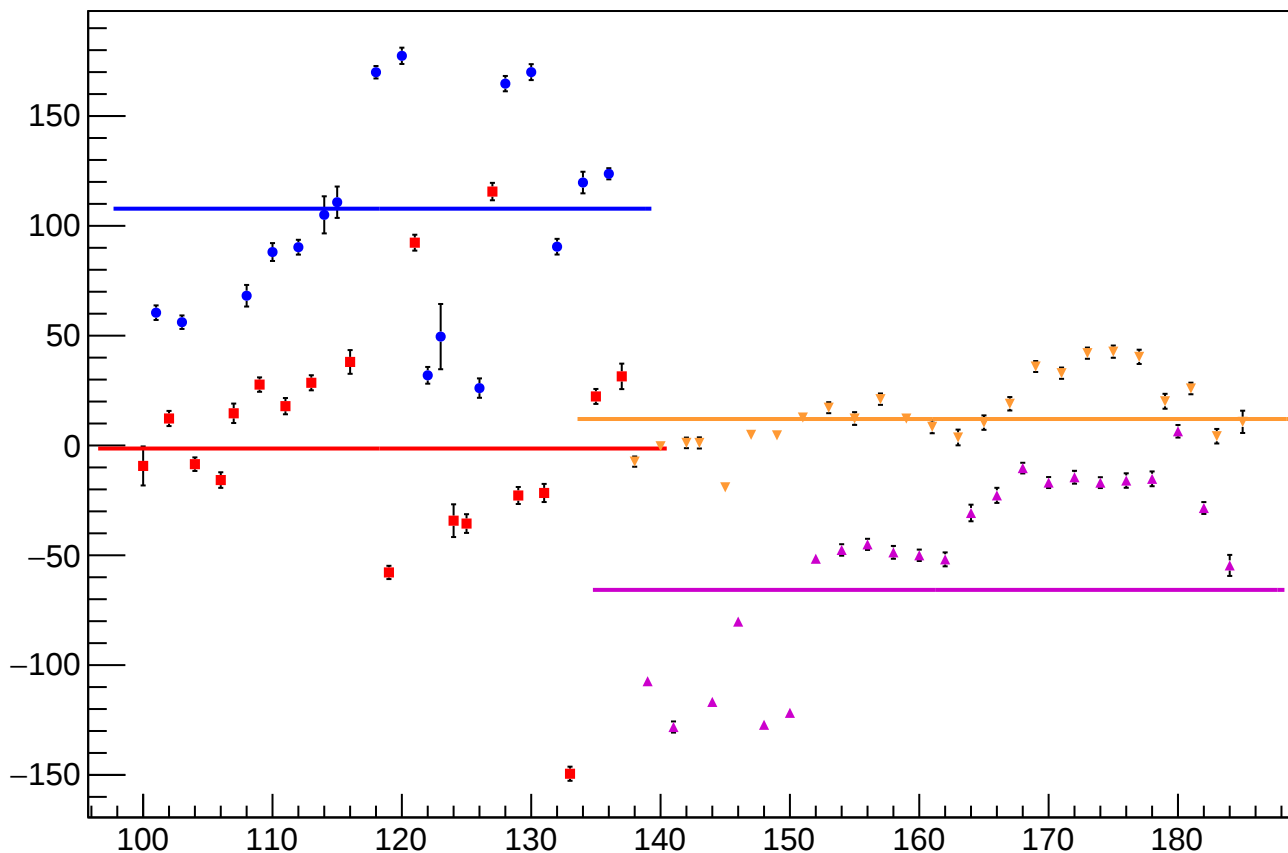
Right: 658.037+/-0.125 χ^2/NDF : 52009.7/35

In: 777.325+/-0.113 χ^2/NDF :1027362.9/39

Out: 777.181+/-0.110 χ^2/NDF :1008225.0/43

All: 777.251+/-0.079 χ^2/NDF : 2035588.7/83

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.816 $\pm$ 0.923 χ^2 /NDF: 2815.8/16

Left Out: 12.051 $\pm$ 0.507 χ^2 /NDF: 969.9/24

Right Out: -1.388 $\pm$ 0.885 χ^2 /NDF: 4515.0/18

Left In: -65.752 $\pm$ 0.518 χ^2 /NDF: 7335.8/22

Left: -26.035 $\pm$ 0.362 χ^2 /NDF: 19836.3/47

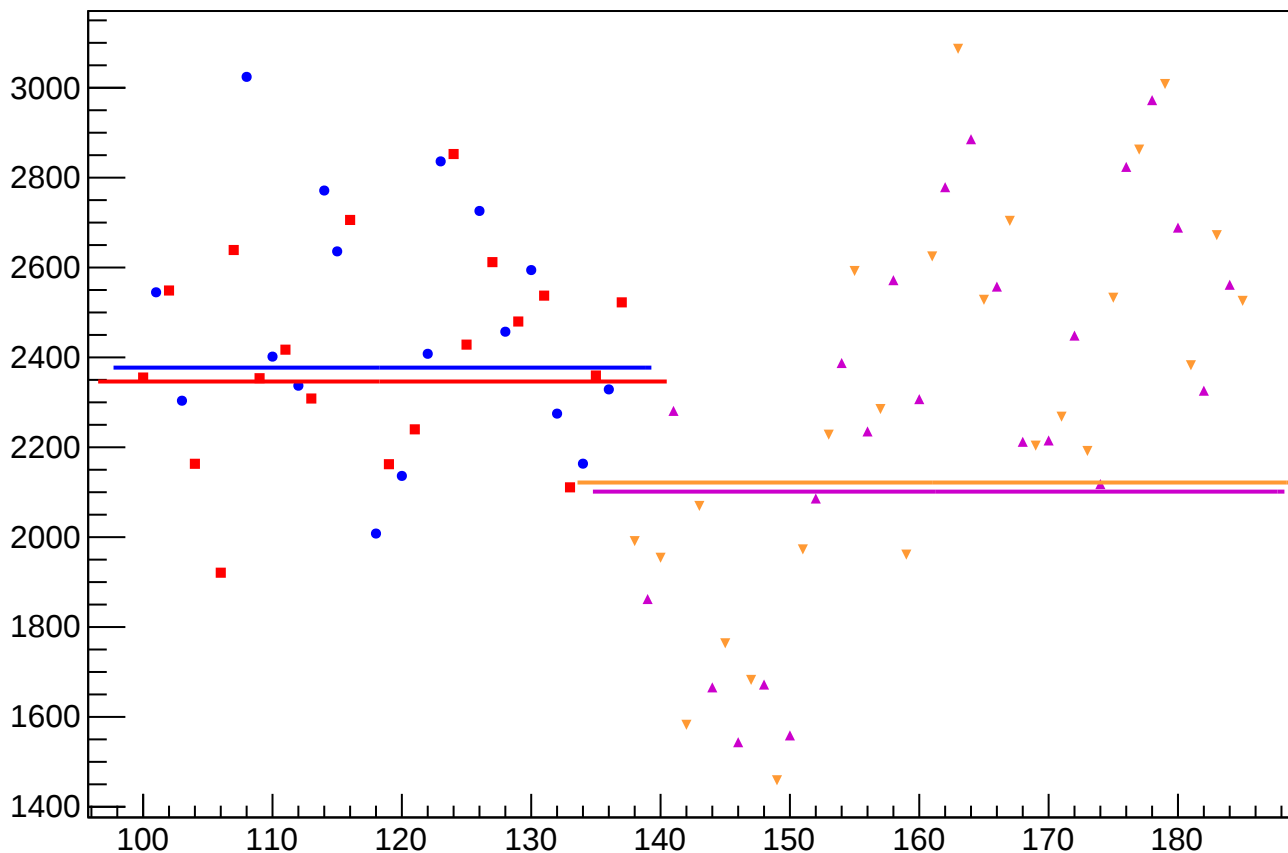
Right: 50.907 $\pm$ 0.639 χ^2 /NDF: 14624.3/35

In: -24.223 $\pm$ 0.452 χ^2 /NDF: 37047.8/39

Out: 8.731 $\pm$ 0.440 χ^2 /NDF: 5658.6/43

All: -7.316 $\pm$ 0.315 χ^2 /NDF: 45439.4/83

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.271+/-0.653 χ^2/NDF : 119441.2/16

Left Out: 2121.596+/-0.358 χ^2/NDF : 1387629.3/24

Right Out: 2346.354+/-0.626 χ^2/NDF : 108612.6/18

Left In: 2101.325+/-0.366 χ^2/NDF : 1360518.3/22

Left: 2111.673+/-0.256 χ^2/NDF : 2749713.1/47

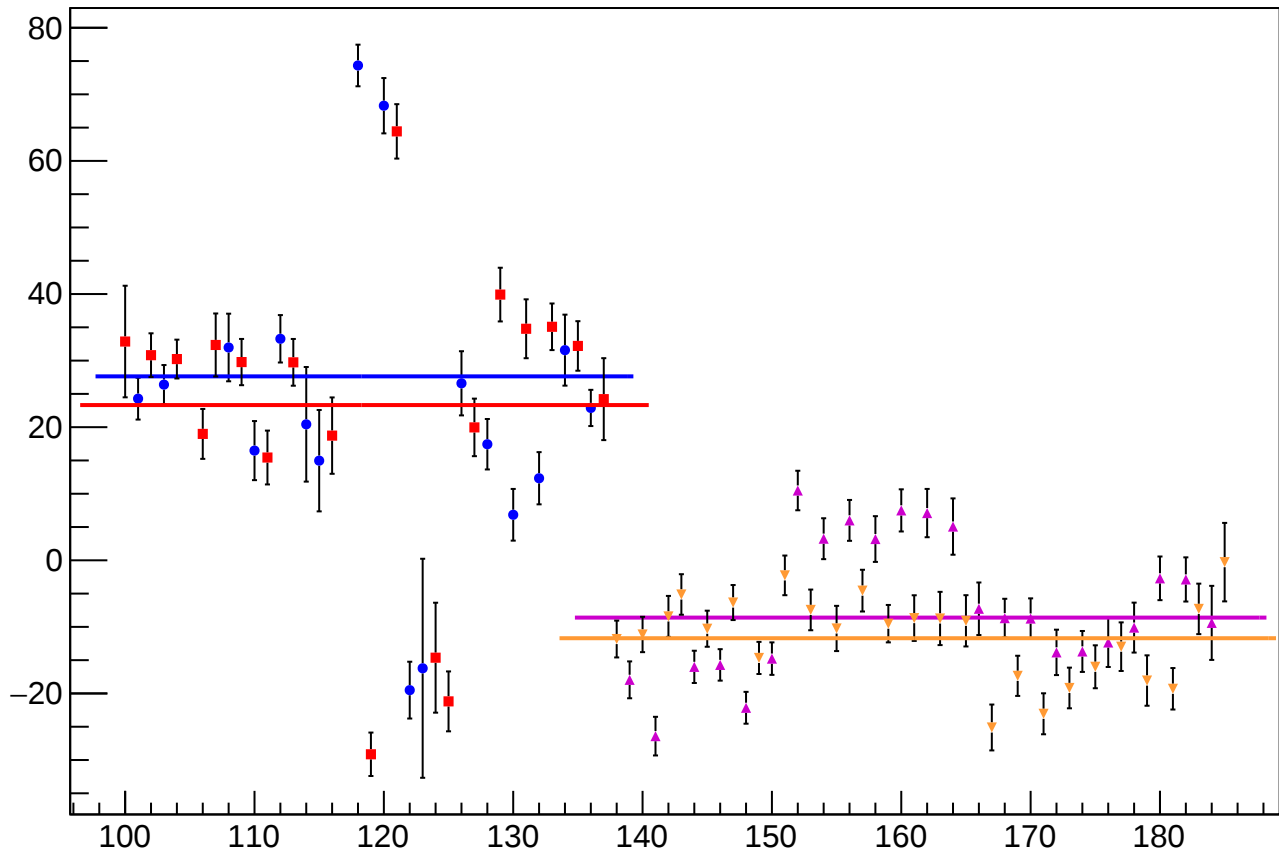
Right: 2361.159+/-0.452 χ^2/NDF : 229223.0/35

In: 2167.349+/-0.319 χ^2/NDF : 1615926.7/39

Out: 2177.135+/-0.311 χ^2/NDF : 1593388.9/43

All: 2172.370+/-0.223 χ^2/NDF : 3209797.7/83

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.633 ± 0.976 $\chi^2/\text{NDF}: 517.1/16$

Left Out: -11.704 ± 0.628 $\chi^2/\text{NDF}: 85.5/24$

Right Out: 23.322 ± 0.929 $\chi^2/\text{NDF}: 548.2/18$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.189 ± 0.449 $\chi^2/\text{NDF}: 361.6/47$

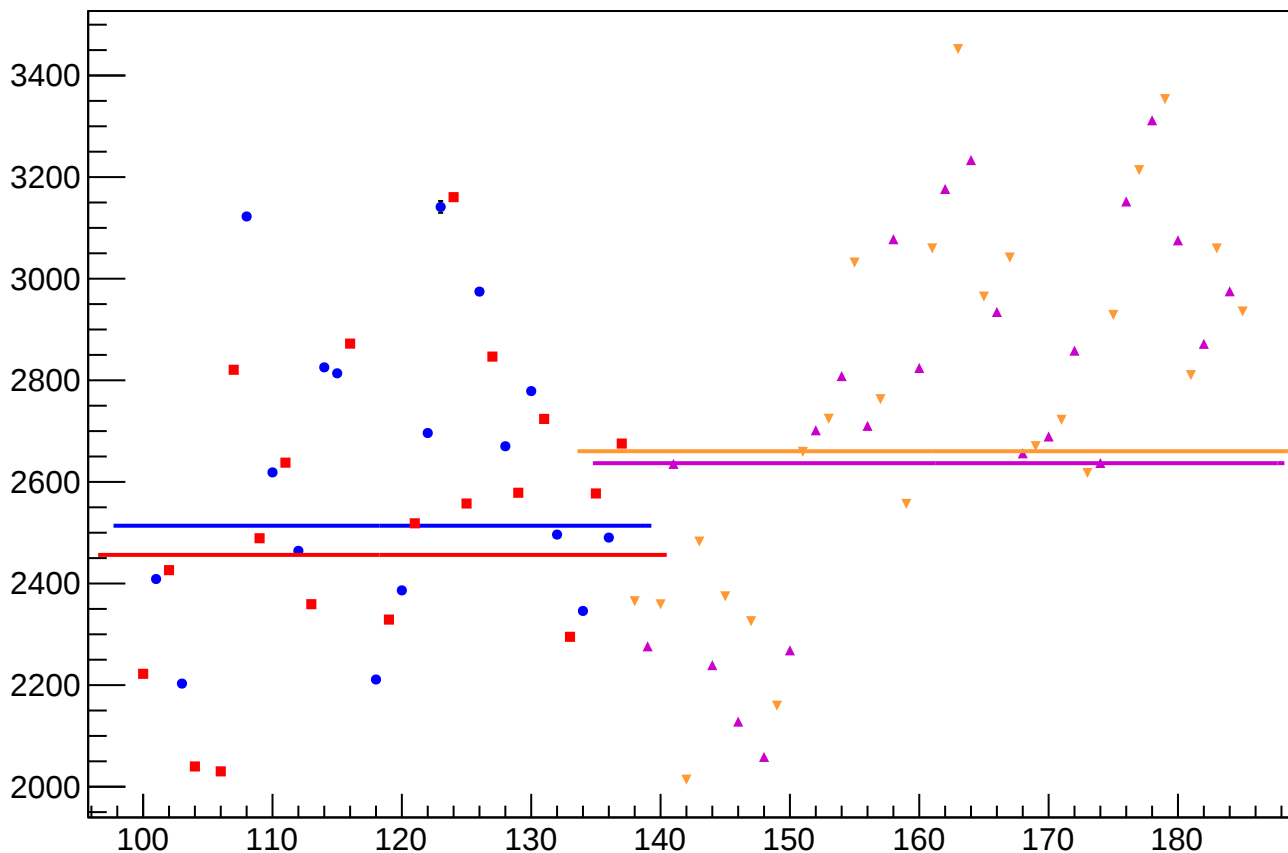
Right: 25.369 ± 0.673 $\chi^2/\text{NDF}: 1075.6/35$

In: 2.331 ± 0.536 $\chi^2/\text{NDF}: 1743.2/39$

Out: -0.714 ± 0.520 $\chi^2/\text{NDF}: 1610.2/43$

All: 0.762 ± 0.373 $\chi^2/\text{NDF}: 3370.0/83$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2513.762 $\pm$ 0.690 χ^2/NDF : 120863.4/16

Left Out: 2660.438 $\pm$ 0.444 χ^2/NDF : 615518.4/24

Right Out: 2456.343 $\pm$ 0.657 χ^2/NDF : 149877.3/18

Left In: 2636.885 $\pm$ 0.454 χ^2/NDF : 652894.5/22

Left: 2648.923 $\pm$ 0.317 χ^2/NDF : 1269789.0/47

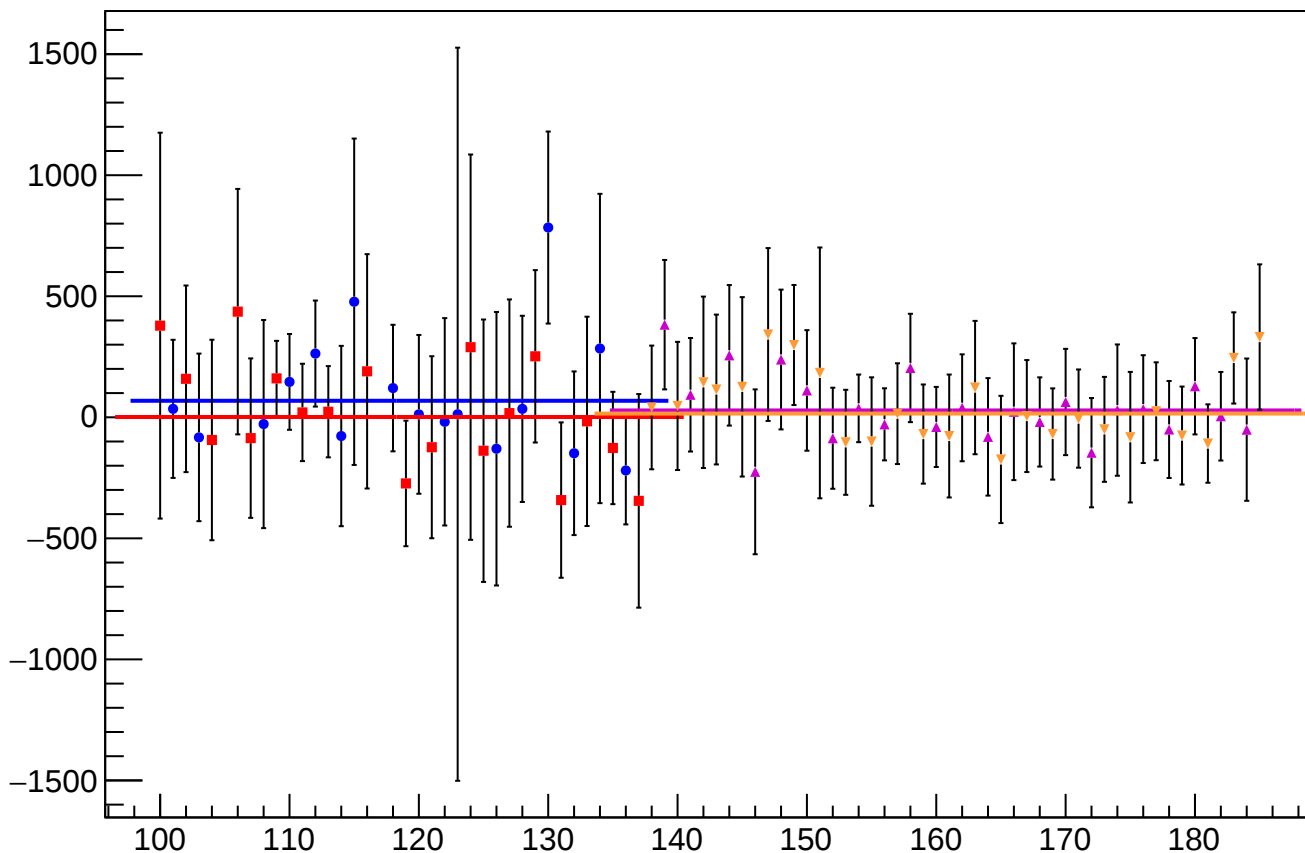
Right: 2483.612 $\pm$ 0.476 χ^2/NDF : 274372.9/35

In: 2599.725 $\pm$ 0.379 χ^2/NDF : 795964.3/39

Out: 2596.402 $\pm$ 0.368 χ^2/NDF : 831708.3/43

All: 2598.012 $\pm$ 0.264 χ^2/NDF : 1627712.2/83

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: 15.428+/-47.612 χ^2/NDF : 7.9/24

Right Out: 1.201+/-69.991 χ^2/NDF : 6.5/18

Left In: 28.310+/-44.638 χ^2/NDF : 6.3/22

Left: 22.284+/-32.565 χ^2/NDF : 14.2/47

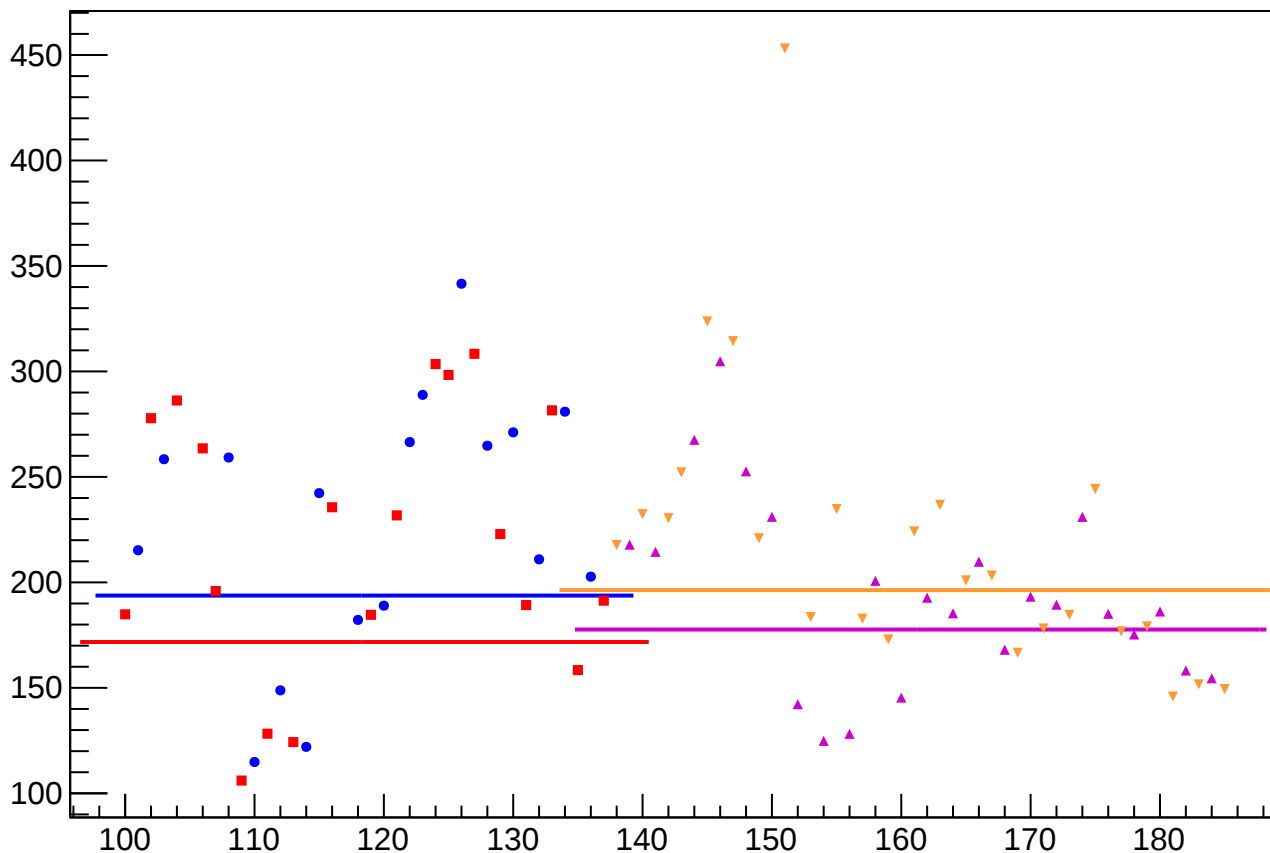
Right: 30.580+/-52.458 χ^2/NDF : 14.3/35

In: 37.928+/-38.892 χ^2/NDF : 13.9/39

Out: 10.927+/-39.367 χ^2/NDF : 14.4/43

All: 24.592+/-27.667 χ^2/NDF : 28.5/83

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.749 $\pm$ 0.056 χ^2 /NDF: 1011115.2/16

Left Out: 196.338 $\pm$ 0.034 χ^2 /NDF: 1776870.5/24

Right Out: 171.741 $\pm$ 0.049 χ^2 /NDF: 1571422.7/18

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF: 1630664.5/22

Left: 186.389 $\pm$ 0.023 χ^2 /NDF: 3571642.9/47

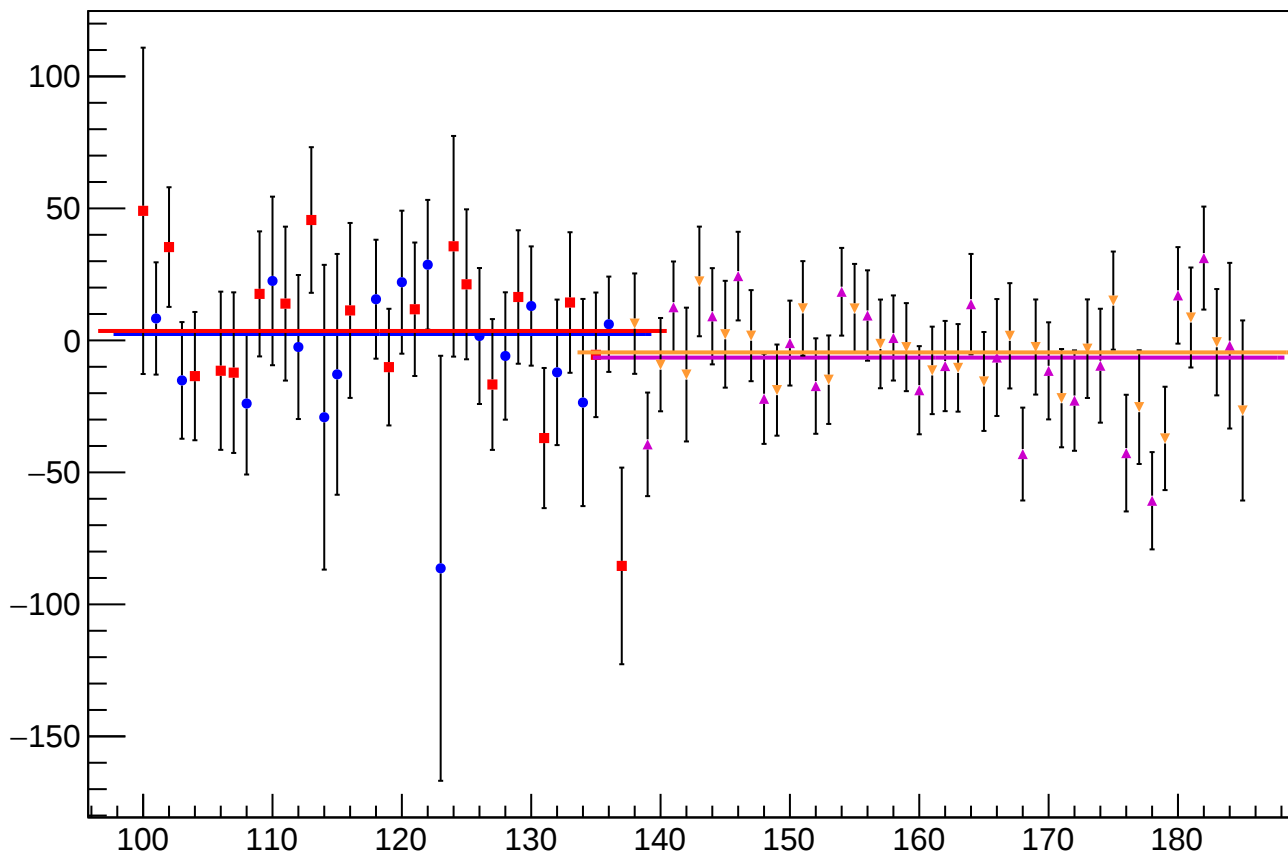
Right: 181.386 $\pm$ 0.037 χ^2 /NDF: 2669200.7/35

In: 181.523 $\pm$ 0.028 χ^2 /NDF: 2704498.9/39

Out: 188.557 $\pm$ 0.028 χ^2 /NDF: 3517163.1/43

All: 184.997 $\pm$ 0.020 χ^2 /NDF: 6253973.0/83

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.423 ± 6.440 $\chi^2/\text{NDF}: 6.8/16$

Left Out: -4.545 ± 3.738 $\chi^2/\text{NDF}: 12.8/24$

Right Out: 3.569 ± 6.294 $\chi^2/\text{NDF}: 17.1/18$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.512 ± 2.674 $\chi^2/\text{NDF}: 49.3/47$

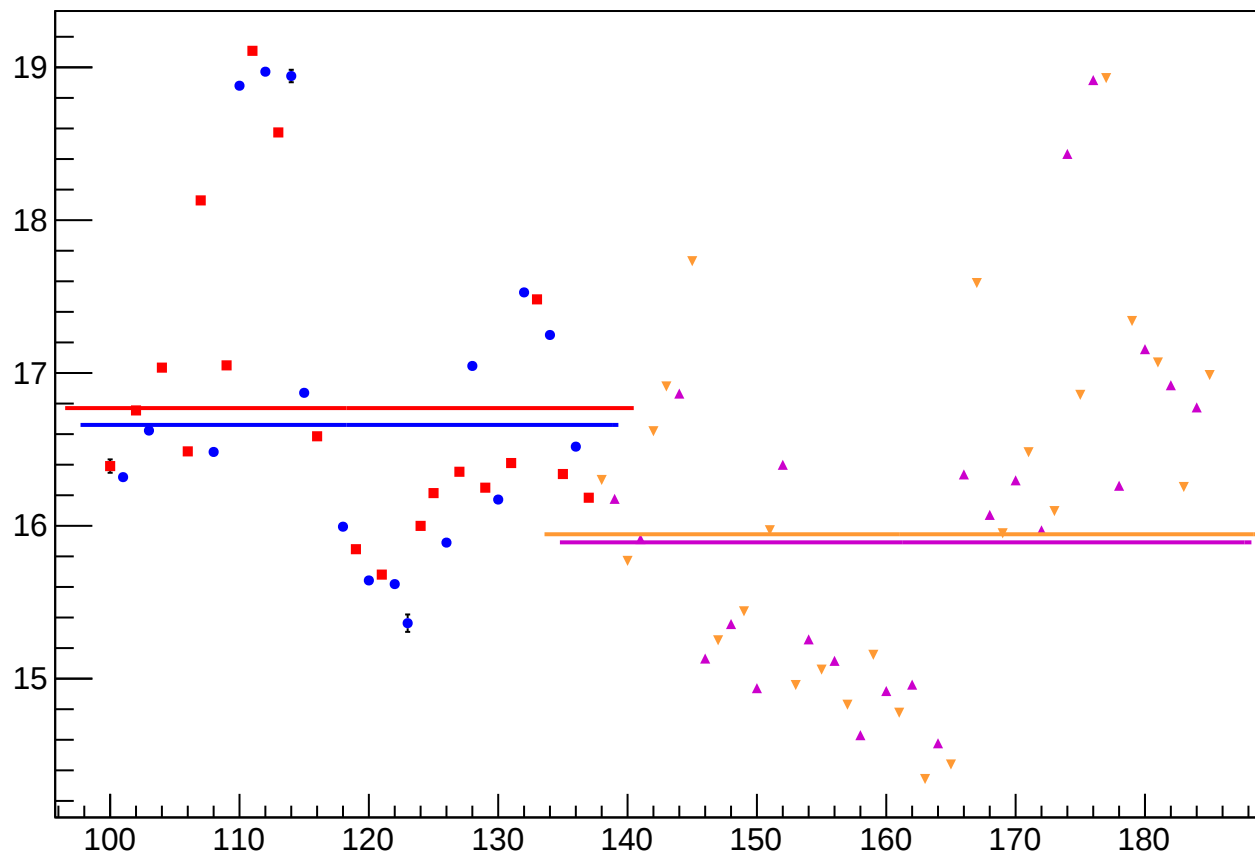
Right: 3.009 ± 4.501 $\chi^2/\text{NDF}: 24.0/35$

In: -4.190 ± 3.290 $\chi^2/\text{NDF}: 44.6/39$

Out: -2.429 ± 3.214 $\chi^2/\text{NDF}: 31.1/43$

All: -3.289 ± 2.299 $\chi^2/\text{NDF}: 75.9/83$

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: 15.945 $\pm$ 0.003 χ^2 /NDF:172547.0/24

Right Out: 16.770 $\pm$ 0.004 χ^2 /NDF: 39259.2/18

Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

Left: 15.919 $\pm$ 0.002 χ^2 /NDF: 319836.2/47

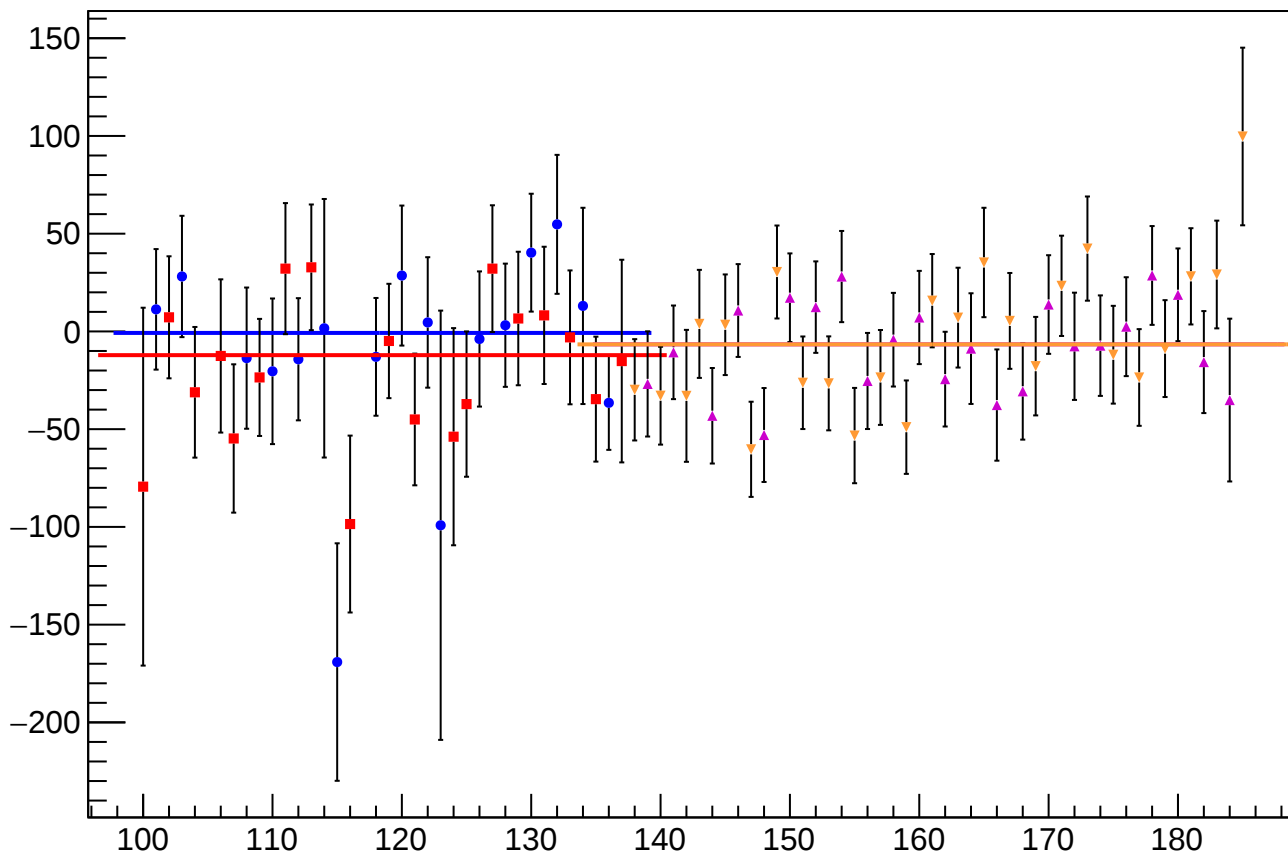
Right: 16.717 $\pm$ 0.003 χ^2 /NDF: 81827.4/35

In: 16.092 $\pm$ 0.002 χ^2 /NDF:210402.2/39

Out: 16.160 $\pm$ 0.002 χ^2 /NDF:237241.7/43

All: 16.127 $\pm$ 0.002 χ^2 /NDF: 448076.2/83

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: -6.618 ± 5.135 $\chi^2/\text{NDF}: 37.0/24$

Right Out: -12.135 ± 8.228 $\chi^2/\text{NDF}: 15.1/18$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.615 ± 3.671 $\chi^2/\text{NDF}: 56.2/47$

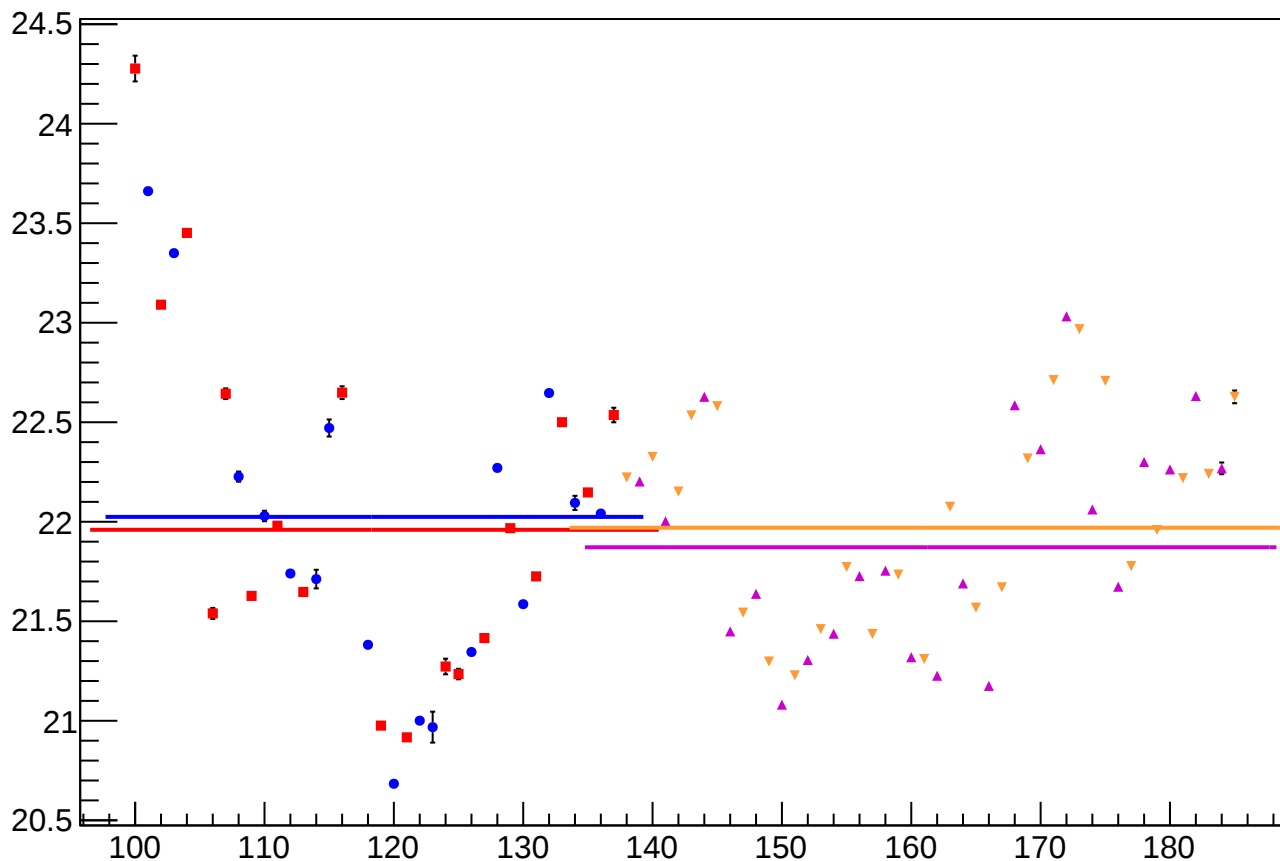
Right: -6.638 ± 5.914 $\chi^2/\text{NDF}: 33.6/35$

In: -4.998 ± 4.468 $\chi^2/\text{NDF}: 37.0/39$

Out: -8.164 ± 4.356 $\chi^2/\text{NDF}: 52.4/43$

All: -6.621 ± 3.119 $\chi^2/\text{NDF}: 89.7/83$

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: 21.970 ± 0.004 $\chi^2/\text{NDF}: 18788.2/24$

Right Out: 21.960 ± 0.006 $\chi^2/\text{NDF}: 16383.4/18$

Left In: 21.872 ± 0.004 $\chi^2/\text{NDF}: 20524.9/22$

Left: 21.922 ± 0.003 $\chi^2/\text{NDF}: 39671.2/47$

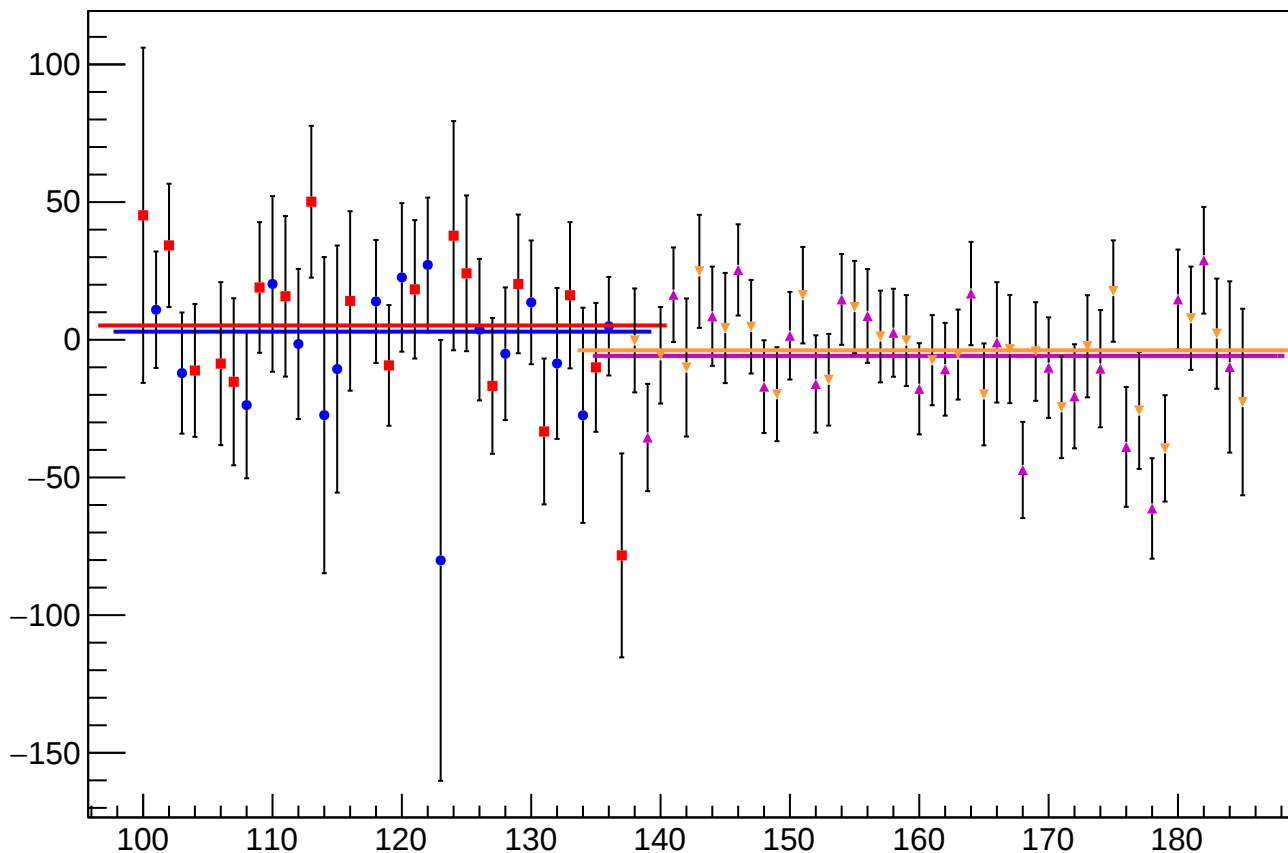
Right: 21.991 ± 0.004 $\chi^2/\text{NDF}: 33824.6/35$

In: 21.914 ± 0.003 $\chi^2/\text{NDF}: 38372.6/39$

Out: 21.967 ± 0.003 $\chi^2/\text{NDF}: 35174.0/43$

All: 21.941 ± 0.002 $\chi^2/\text{NDF}: 73691.9/83$

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: -3.822 $\pm$ 3.698 χ^2 /NDF:14.8/24

Right Out: 5.199 $\pm$ 6.258 χ^2 /NDF: 17.2/18

Left In: -5.861 $\pm$ 3.787 χ^2 /NDF:36.2/22

Left: -4.817 $\pm$ 2.646 χ^2 /NDF: 51.1/47

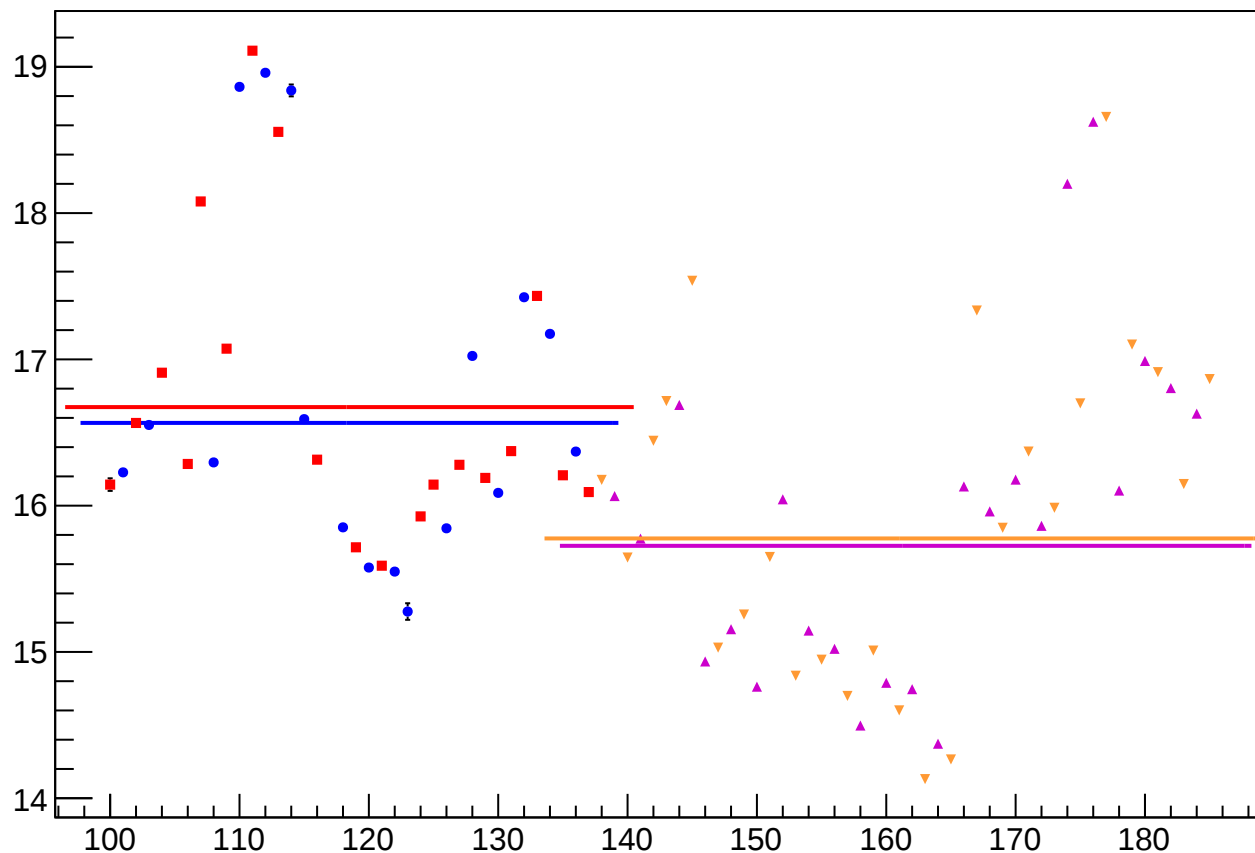
Right: 4.100 $\pm$ 4.476 χ^2 /NDF: 23.5/35

In: -3.579 $\pm$ 3.260 χ^2 /NDF:43.9/39

Out: -1.487 $\pm$ 3.184 χ^2 /NDF:33.5/43

All: -2.508 $\pm$ 2.278 χ^2 /NDF: 77.5/83

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.566 ± 0.005 $\chi^2/\text{NDF}: 44242.8/16$

Left Out: 15.776 ± 0.003 $\chi^2/\text{NDF}: 172100.4/24$

Right Out: 16.674 ± 0.004 $\chi^2/\text{NDF}: 42453.5/18$

Left In: 15.725 ± 0.003 $\chi^2/\text{NDF}: 145830.9/22$

Left: 15.751 ± 0.002 $\chi^2/\text{NDF}: 318113.0/47$

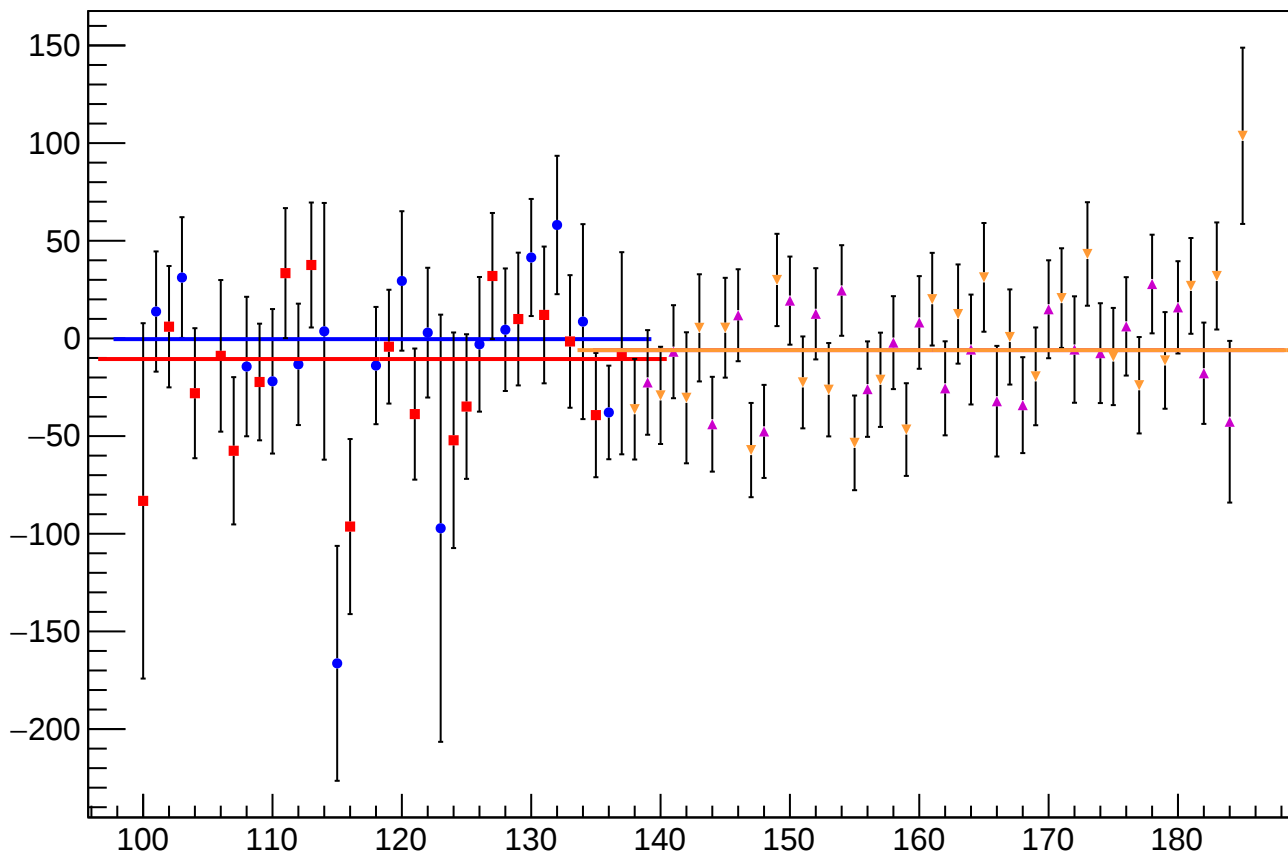
Right: 16.621 ± 0.003 $\chi^2/\text{NDF}: 86987.8/35$

In: 15.943 ± 0.002 $\chi^2/\text{NDF}: 215588.3/39$

Out: 16.008 ± 0.002 $\chi^2/\text{NDF}: 245073.0/43$

All: 15.976 ± 0.002 $\chi^2/\text{NDF}: 461069.8/83$

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: -5.994 ± 5.105 χ^2/NDF : 37.0/24

Right Out: -10.548 ± 8.187 χ^2/NDF : 15.7/18

Left In: -5.978 ± 5.222 χ^2/NDF : 18.5/22

Left: -5.986 ± 3.651 χ^2/NDF : 55.5/47

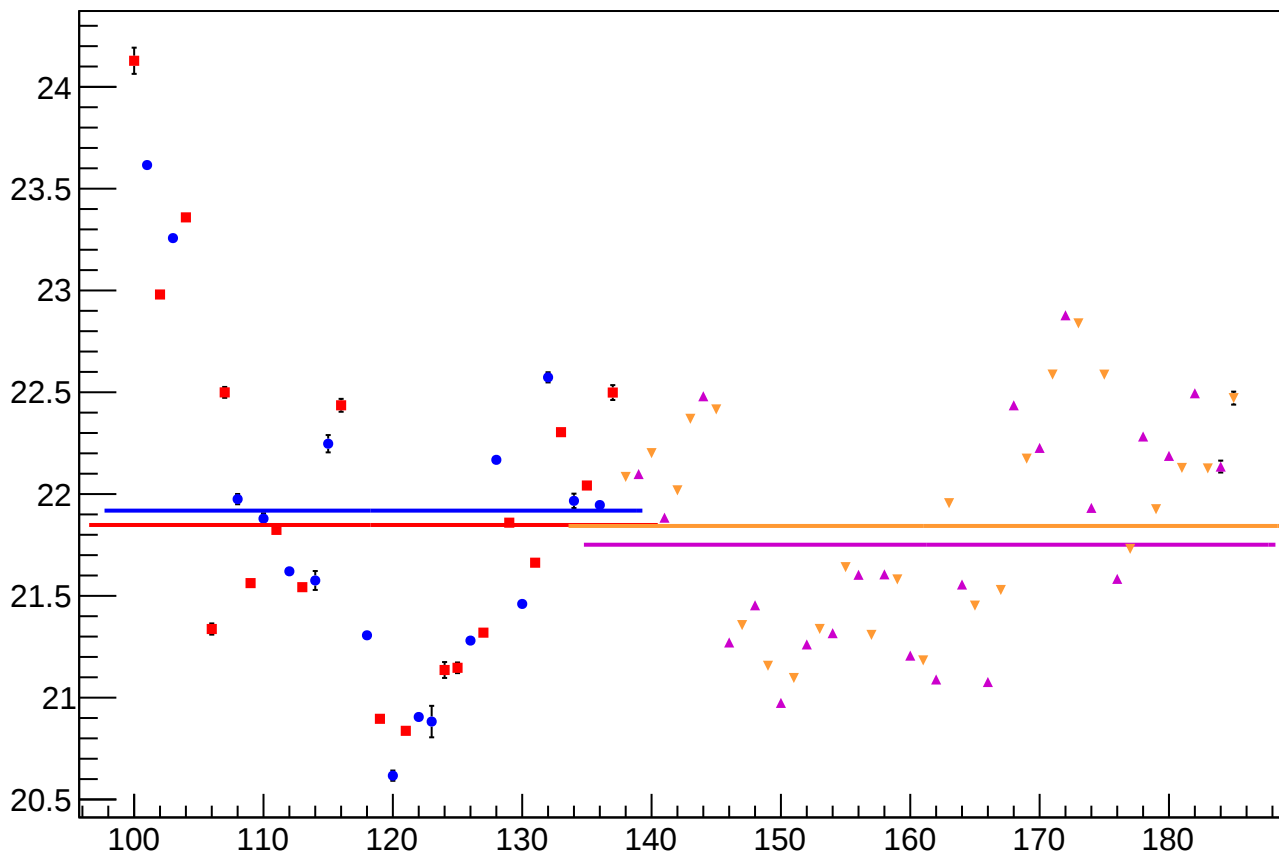
Right: -5.623 ± 5.885 χ^2/NDF : 34.9/35

In: -4.428 ± 4.445 χ^2/NDF : 37.3/39

Out: -7.269 ± 4.332 χ^2/NDF : 53.0/43

All: -5.885 ± 3.102 χ^2/NDF : 90.4/83

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: 21.843 $\pm$ 0.004 χ^2 /NDF:19070.6/24

Right Out: 21.848 $\pm$ 0.006 χ^2 /NDF: 16031.9/18

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.798 $\pm$ 0.003 χ^2 /NDF: 39905.5/47

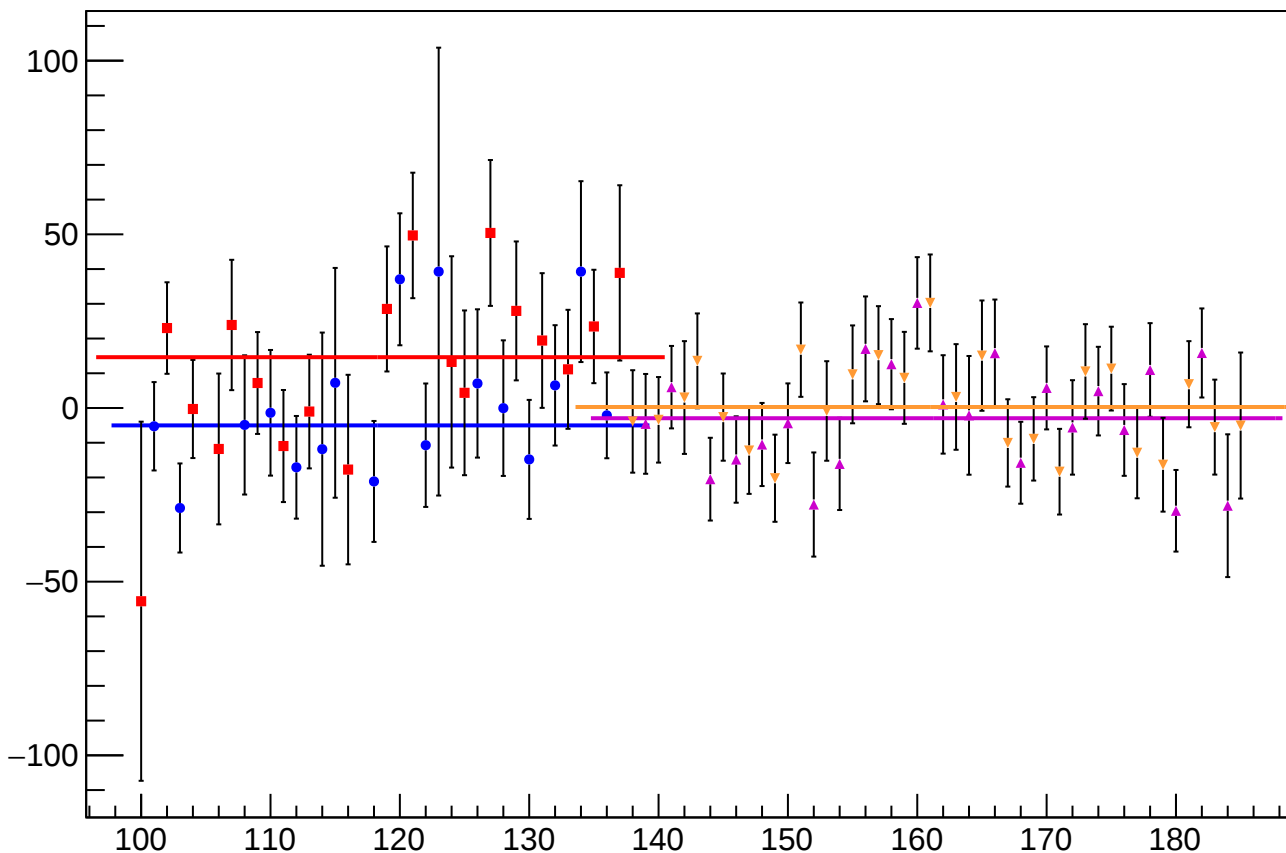
Right: 21.882 $\pm$ 0.004 χ^2 /NDF: 33745.4/35

In: 21.797 $\pm$ 0.003 χ^2 /NDF:38725.3/39

Out: 21.845 $\pm$ 0.003 χ^2 /NDF:35102.9/43

All: 21.822 $\pm$ 0.002 χ^2 /NDF: 73944.6/83

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.010 $\pm$ 4.334 χ^2 /NDF: 14.8/16

Left Out: 0.287 $\pm$ 2.707 χ^2 /NDF:21.8/24

Right Out: 14.630 $\pm$ 4.270 χ^2 /NDF: 19.4/18

Left In: -2.944 $\pm$ 2.757 χ^2 /NDF:30.9/22

Left: -1.299 $\pm$ 1.932 χ^2 /NDF: 53.5/47

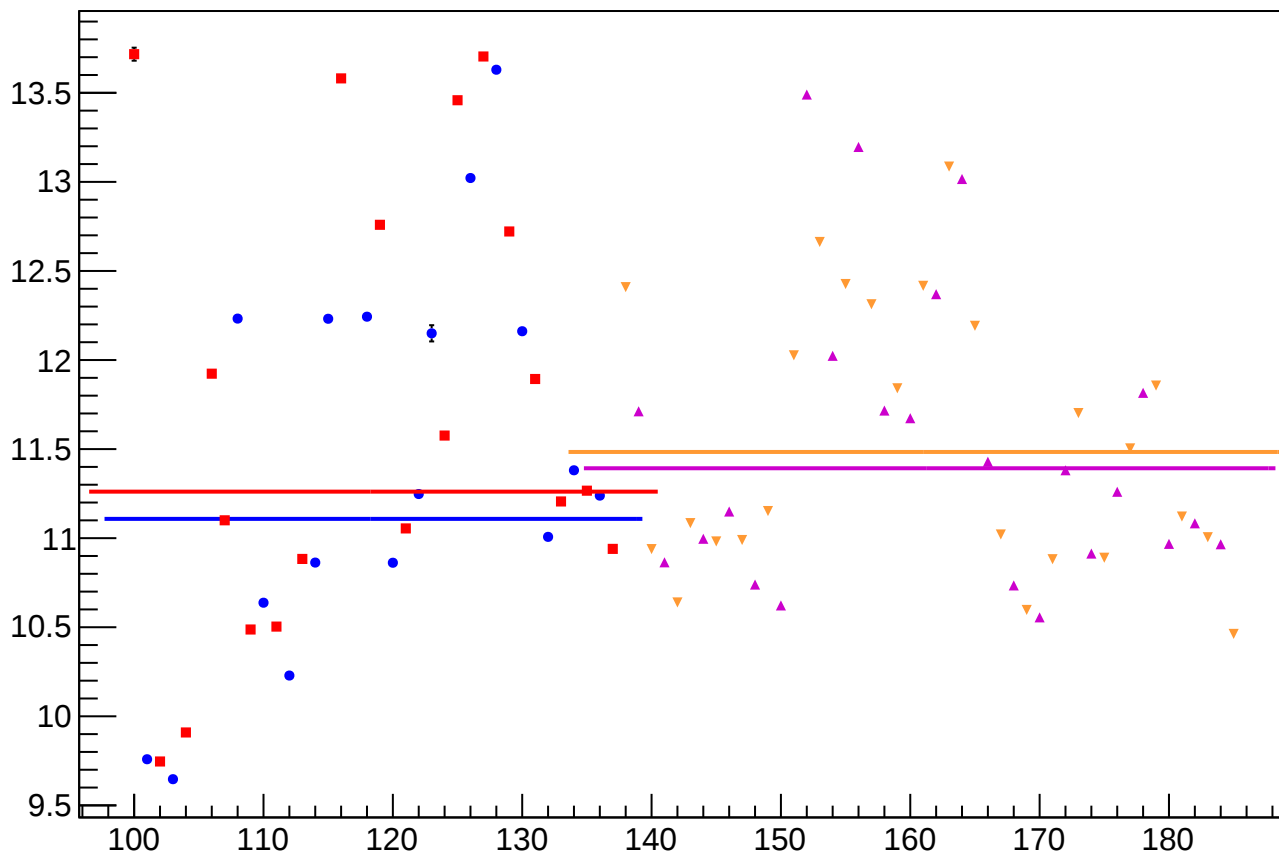
Right: 4.955 $\pm$ 3.042 χ^2 /NDF: 44.6/35

In: -3.540 $\pm$ 2.326 χ^2 /NDF:45.9/39

Out: 4.398 $\pm$ 2.286 χ^2 /NDF:49.3/43

All: 0.498 $\pm$ 1.631 χ^2 /NDF: 101.1/83

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:129998.0/24

Right Out: 11.261 $\pm$ 0.003 χ^2 /NDF: 148448.6/18

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281614.2/47

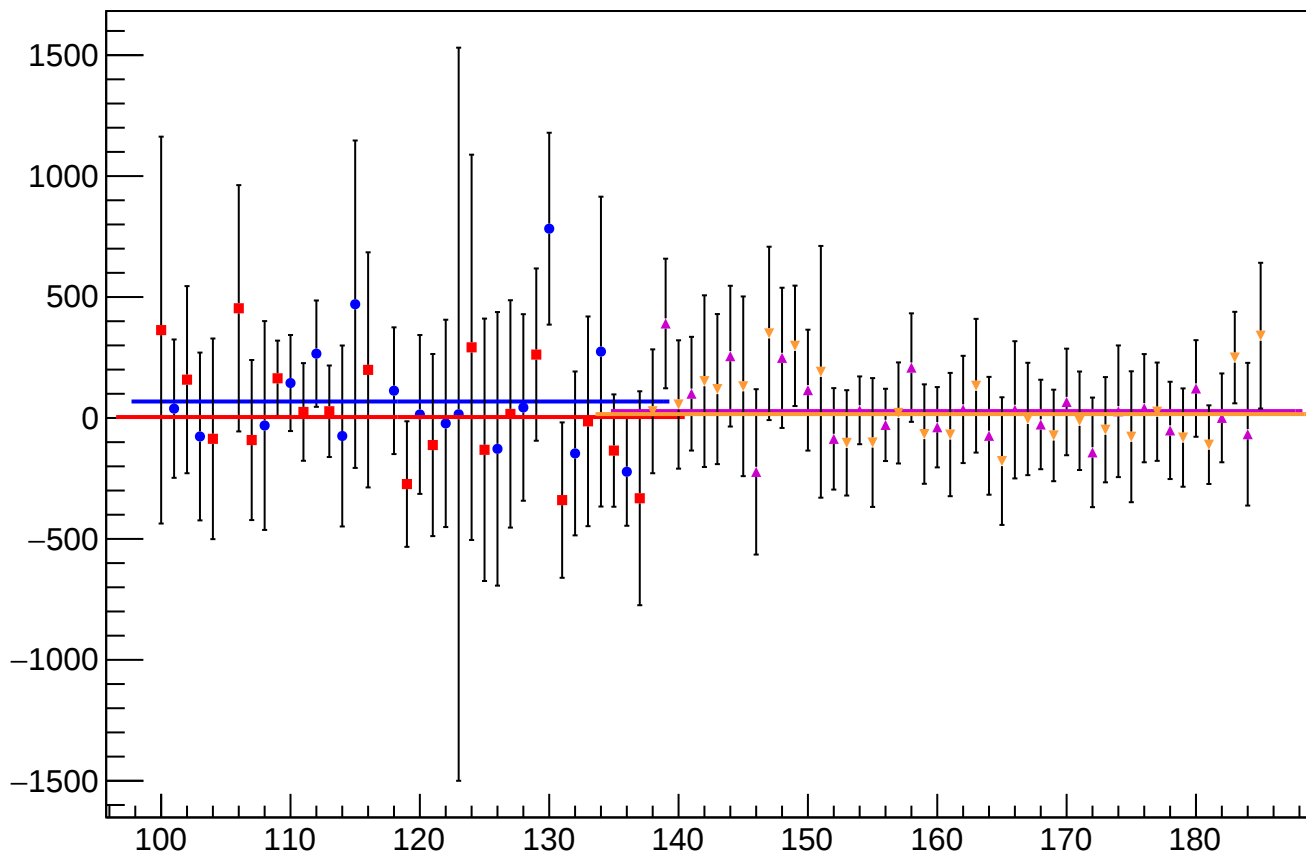
Right: 11.186 $\pm$ 0.002 χ^2 /NDF: 282306.4/35

In: 11.311 $\pm$ 0.002 χ^2 /NDF:289205.8/39

Out: 11.420 $\pm$ 0.002 χ^2 /NDF:282329.1/43

All: 11.366 $\pm$ 0.001 χ^2 /NDF: 573792.4/83

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: 16.079+/-47.789 χ^2/NDF : 8.1/24

Right Out: 3.876+/-70.195 χ^2/NDF : 6.5/18

Left In: 28.500+/-44.797 χ^2/NDF : 6.4/22

Left: 22.691+/-32.683 χ^2/NDF : 14.5/47

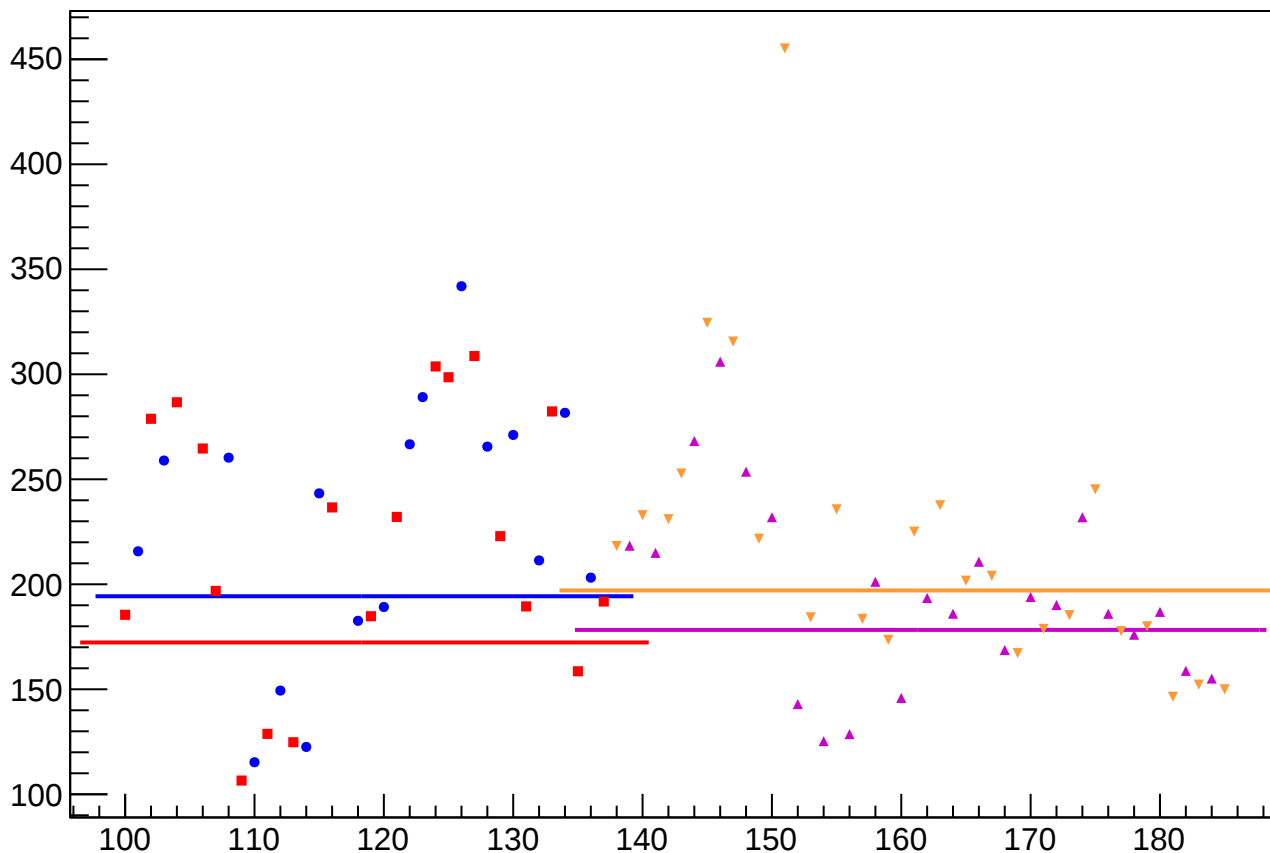
Right: 32.037+/-52.604 χ^2/NDF : 14.3/35

In: 38.056+/-39.021 χ^2/NDF : 13.9/39

Out: 12.214+/-39.503 χ^2/NDF : 14.7/43

All: 25.294+/-27.761 χ^2/NDF : 28.8/83

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: 197.073 $\pm$ 0.034 χ^2 /NDF:1774281.1/24

Right Out: 172.293 $\pm$ 0.050 χ^2 /NDF: 1564135.2/18

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF:1628916.6/22

Left: 187.068 $\pm$ 0.023 χ^2 /NDF: 3567888.3/47

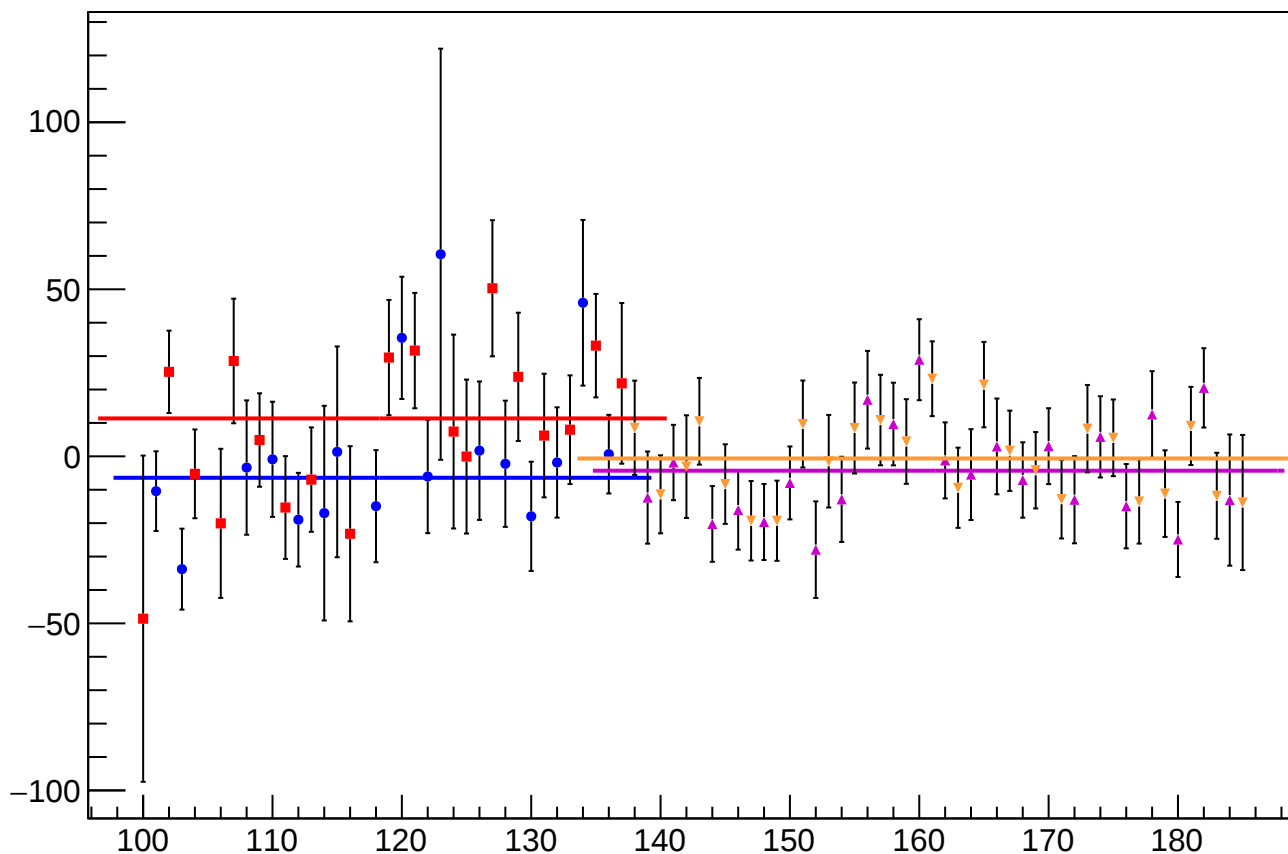
Right: 181.940 $\pm$ 0.037 χ^2 /NDF: 2656513.7/35

In: 182.142 $\pm$ 0.028 χ^2 /NDF:2696837.8/39

Out: 189.225 $\pm$ 0.028 χ^2 /NDF:3508731.3/43

All: 185.640 $\pm$ 0.020 χ^2 /NDF: 6238118.5/83

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.419 ± 4.138 χ^2/NDF : 18.6/16

Left Out: -0.636 ± 2.531 χ^2/NDF : 22.9/24

Right Out: 11.351 ± 4.084 χ^2/NDF : 22.6/18

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.425 ± 1.810 χ^2/NDF : 55.5/47

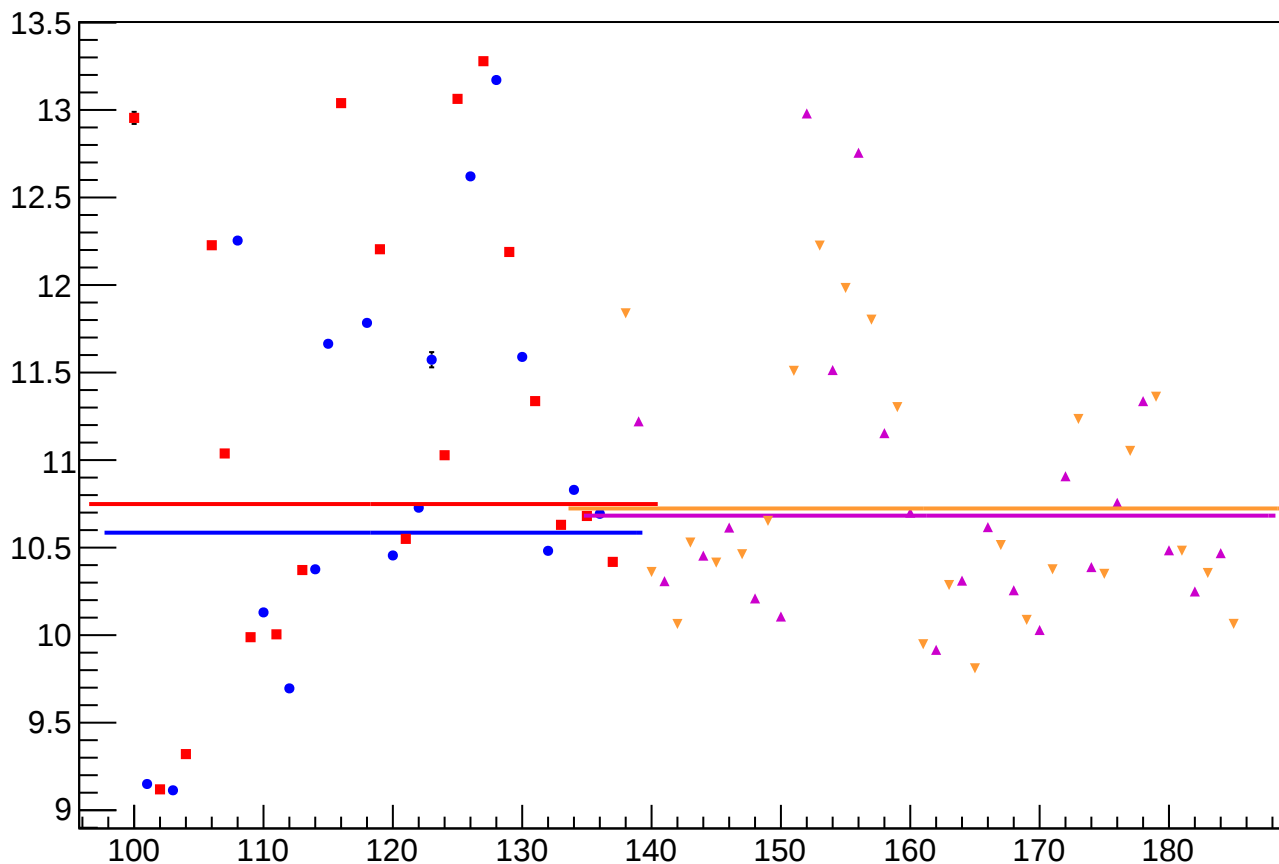
Right: 2.582 ± 2.907 χ^2/NDF : 50.6/35

In: -4.894 ± 2.195 χ^2/NDF : 50.4/39

Out: 2.690 ± 2.152 χ^2/NDF : 51.7/43

All: -1.026 ± 1.536 χ^2/NDF : 108.2/83

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:132695.0/24

Right Out: 10.749 $\pm$ 0.003 χ^2 /NDF: 177905.9/18

Left In: 10.683 $\pm$ 0.002 χ^2 /NDF:147835.6/22

Left: 10.704 $\pm$ 0.001 χ^2 /NDF: 280786.2/47

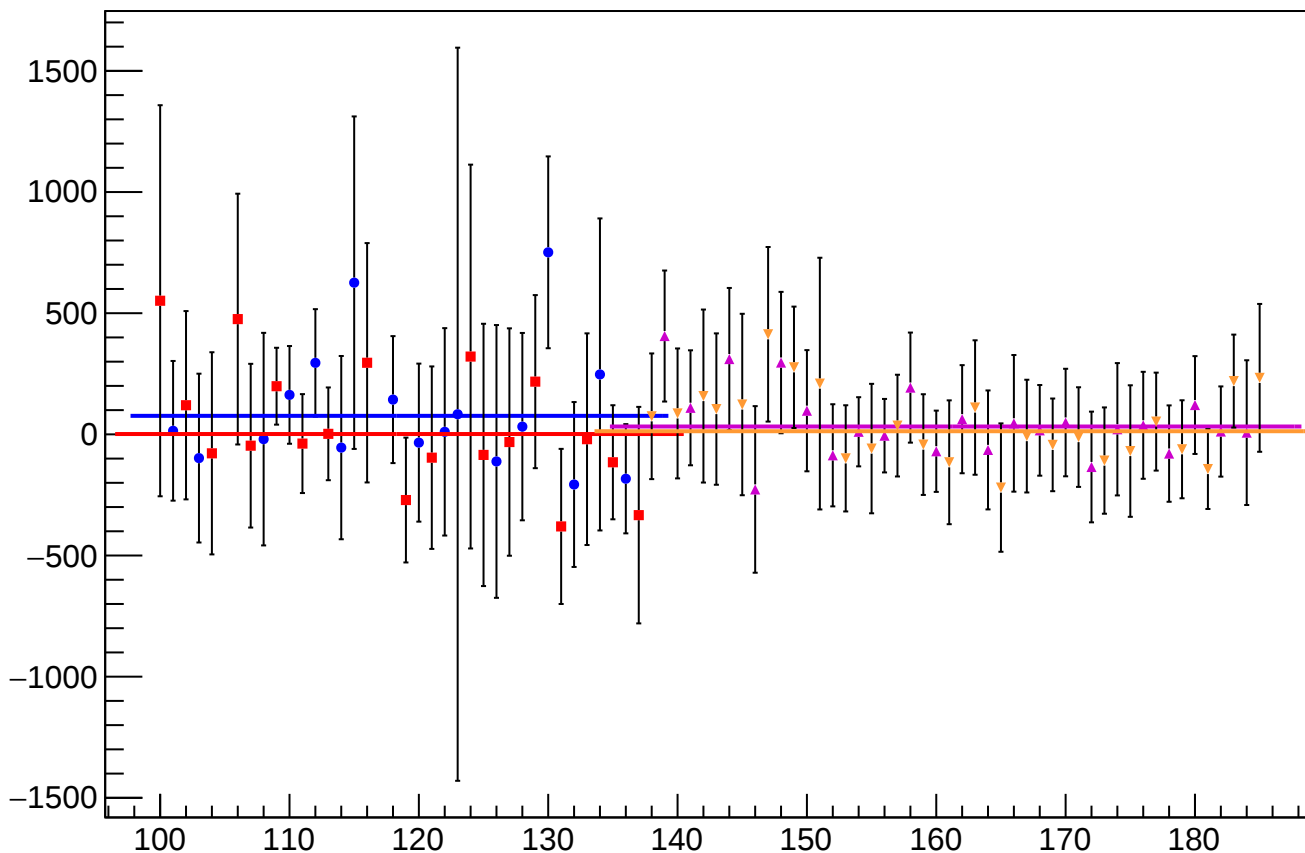
Right: 10.668 $\pm$ 0.002 χ^2 /NDF: 339301.3/35

In: 10.655 $\pm$ 0.002 χ^2 /NDF:308444.0/39

Out: 10.731 $\pm$ 0.002 χ^2 /NDF:310656.3/43

All: 10.694 $\pm$ 0.001 χ^2 /NDF: 620301.3/83

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: 12.949 $\pm$ 48.107 χ^2 /NDF:7.8/24

Right Out: 1.355 $\pm$ 70.867 χ^2 /NDF: 7.4/18

Left In: 32.413 $\pm$ 45.155 χ^2 /NDF:6.9/22

Left: 23.296 $\pm$ 32.923 χ^2 /NDF: 14.8/47

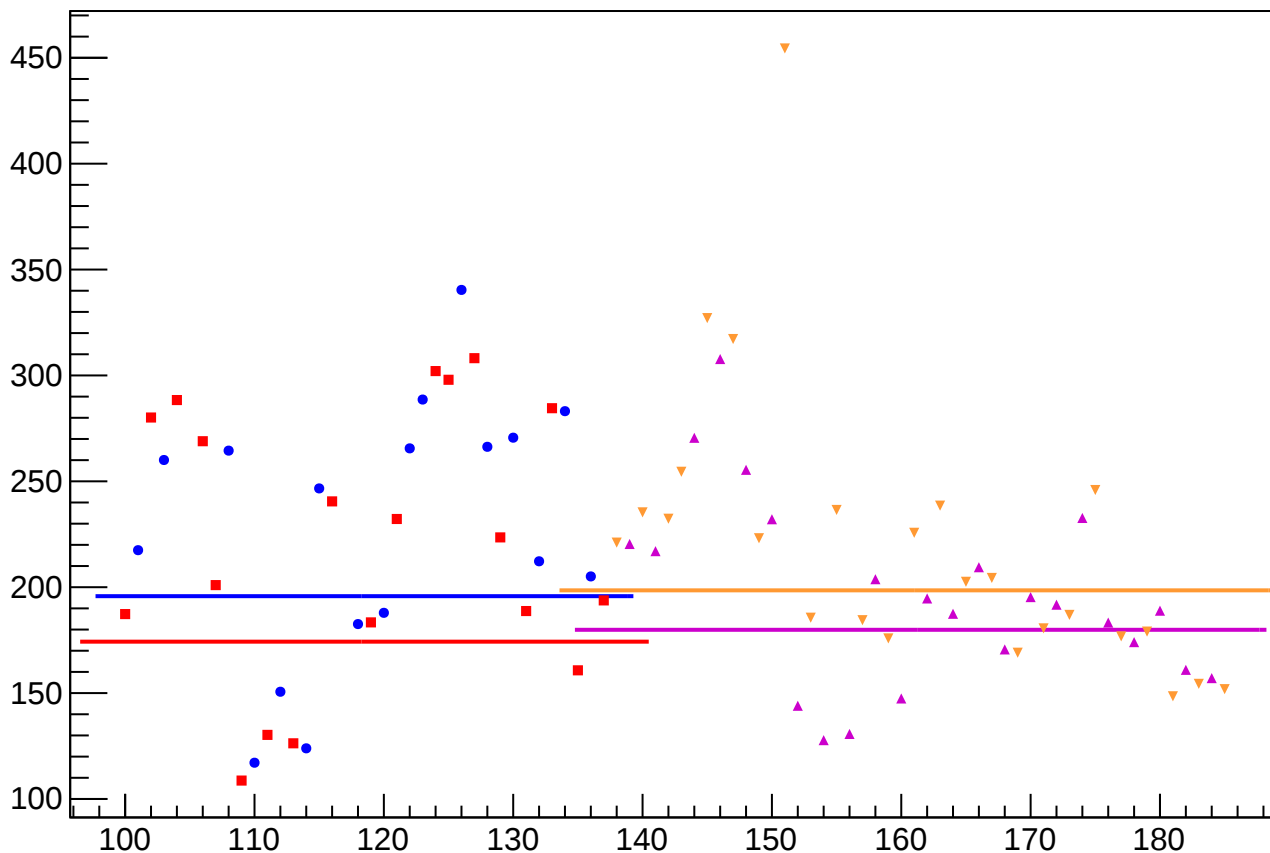
Right: 34.364 $\pm$ 53.038 χ^2 /NDF: 15.5/35

In: 43.046 $\pm$ 39.319 χ^2 /NDF:14.7/39

Out: 9.292 $\pm$ 39.802 χ^2 /NDF:15.2/43

All: 26.375 $\pm$ 27.972 χ^2 /NDF: 30.2/83

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: 198.517 $\pm$ 0.034 χ^2 /NDF:1746839.6/24

Right Out: 174.286 $\pm$ 0.050 χ^2 /NDF: 1523733.5/18

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.613 $\pm$ 0.023 χ^2 /NDF: 3486951.9/47

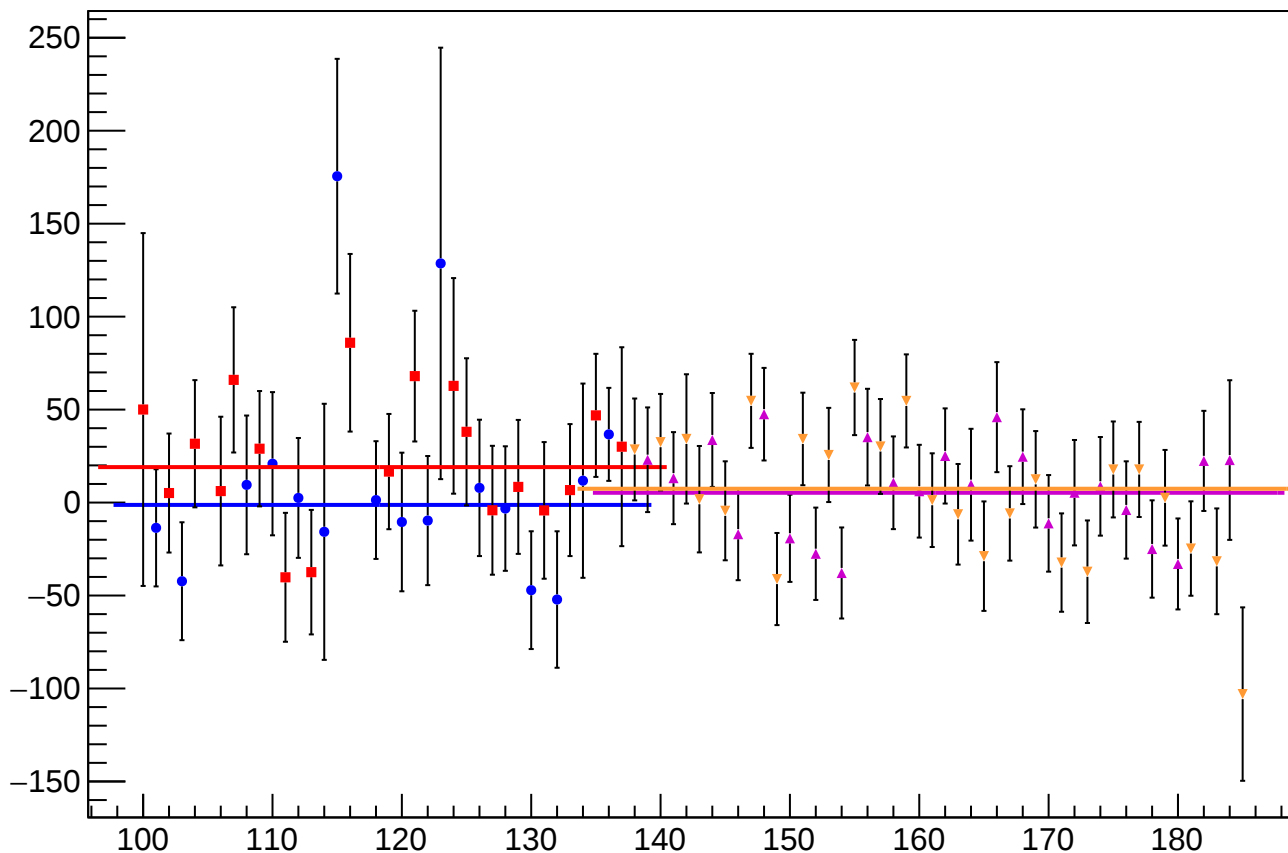
Right: 183.734 $\pm$ 0.038 χ^2 /NDF: 2585471.0/35

In: 183.725 $\pm$ 0.028 χ^2 /NDF:2621344.8/39

Out: 190.874 $\pm$ 0.028 χ^2 /NDF:3430644.0/43

All: 187.256 $\pm$ 0.020 χ^2 /NDF: 6084637.2/83

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.260 ± 8.846 $\chi^2/\text{NDF}: 18.0/16$

Left Out: 7.436 ± 5.348 $\chi^2/\text{NDF}: 36.7/24$

Right Out: 19.071 ± 8.572 $\chi^2/\text{NDF}: 14.4/18$

Left In: 5.261 ± 5.465 $\chi^2/\text{NDF}: 20.8/22$

Left: 6.372 ± 3.822 $\chi^2/\text{NDF}: 57.6/47$

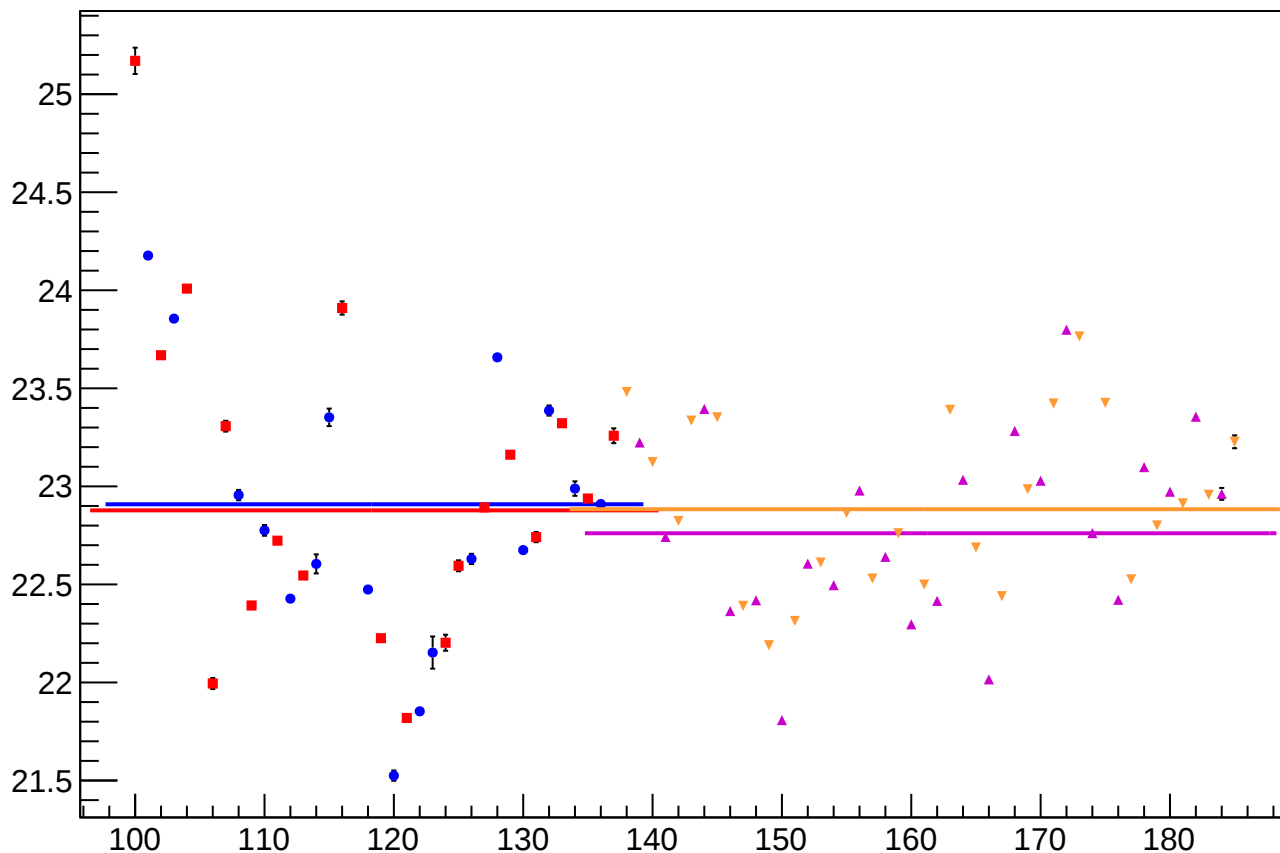
Right: 9.225 ± 6.156 $\chi^2/\text{NDF}: 35.1/35$

In: 3.459 ± 4.649 $\chi^2/\text{NDF}: 39.1/39$

Out: 10.696 ± 4.537 $\chi^2/\text{NDF}: 52.4/43$

All: 7.166 ± 3.247 $\chi^2/\text{NDF}: 92.8/83$

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: 22.884 $\pm$ 0.004 χ^2 /NDF:12471.6/24

Right Out: 22.878 $\pm$ 0.006 χ^2 /NDF: 11094.4/18

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.824 $\pm$ 0.003 χ^2 /NDF: 27535.5/47

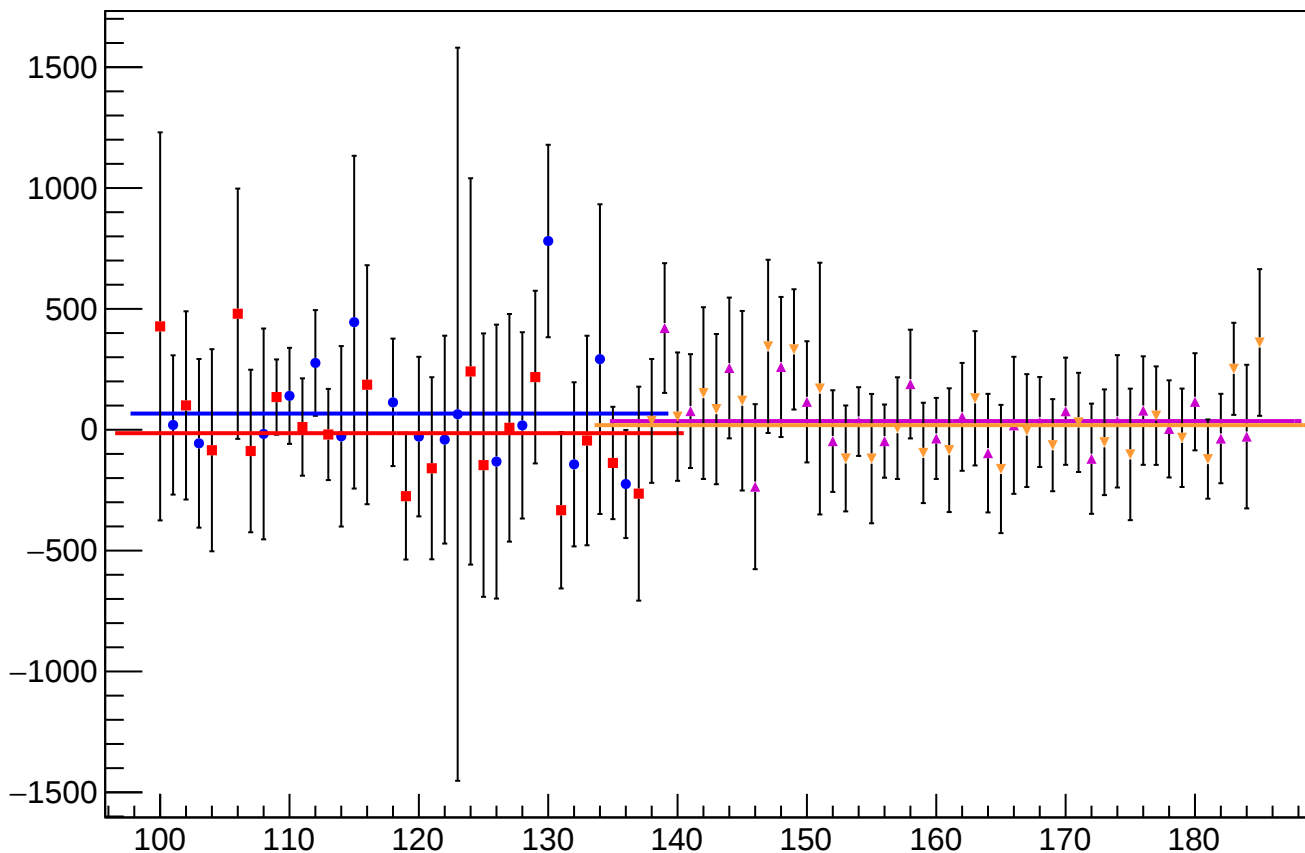
Right: 22.893 $\pm$ 0.004 χ^2 /NDF: 23377.6/35

In: 22.802 $\pm$ 0.003 χ^2 /NDF:27224.2/39

Out: 22.882 $\pm$ 0.003 χ^2 /NDF:23566.7/43

All: 22.843 $\pm$ 0.002 χ^2 /NDF: 51095.1/83

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: 18.995 $\pm$ 48.026 χ^2 /NDF:8.7/24

Right Out: -14.253 $\pm$ 70.367 χ^2 /NDF: 5.8/18

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.969 $\pm$ 32.872 χ^2 /NDF: 15.0/47

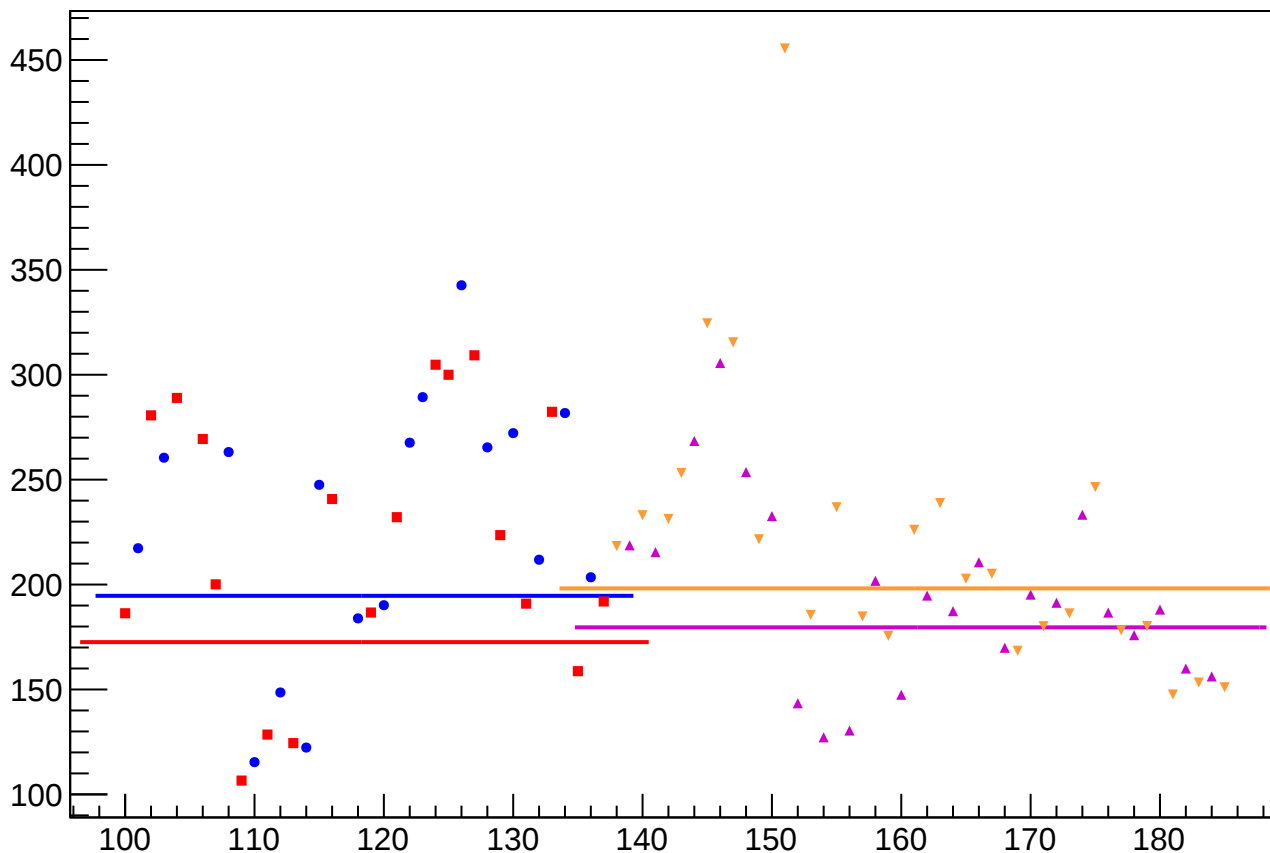
Right: 21.361 $\pm$ 52.728 χ^2 /NDF: 13.7/35

In: 43.426 $\pm$ 39.234 χ^2 /NDF:13.8/39

Out: 8.429 $\pm$ 39.668 χ^2 /NDF:14.6/43

All: 26.120 $\pm$ 27.895 χ^2 /NDF: 28.7/83

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: 198.168+/-0.034 χ^2/NDF : 1745220.0/24

Right Out: 172.571+/-0.050 χ^2/NDF : 1591230.2/18

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.301+/-0.023 χ^2/NDF : 3479780.3/47

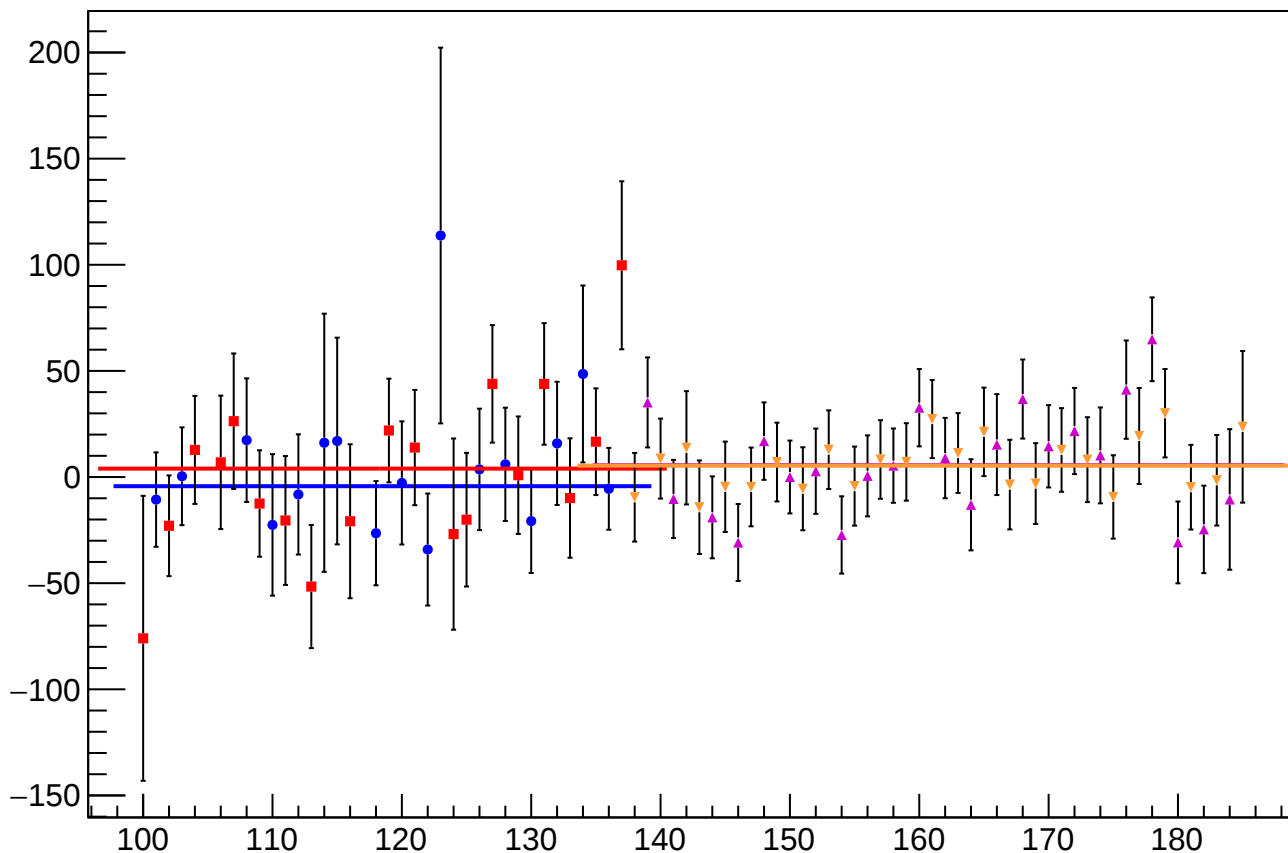
Right: 182.245+/-0.037 χ^2/NDF : 2698427.0/35

In: 183.254+/-0.028 χ^2/NDF : 2650672.4/39

Out: 190.033+/-0.028 χ^2/NDF : 3517000.5/43

All: 186.606+/-0.020 χ^2/NDF : 6197205.5/83

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.314 ± 6.887 $\chi^2/\text{NDF}: 7.9/16$

Left Out: 5.381 ± 4.035 $\chi^2/\text{NDF}: 8.3/24$

Right Out: 3.970 ± 6.740 $\chi^2/\text{NDF}: 20.7/18$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.485 ± 2.883 $\chi^2/\text{NDF}: 44.7/47$

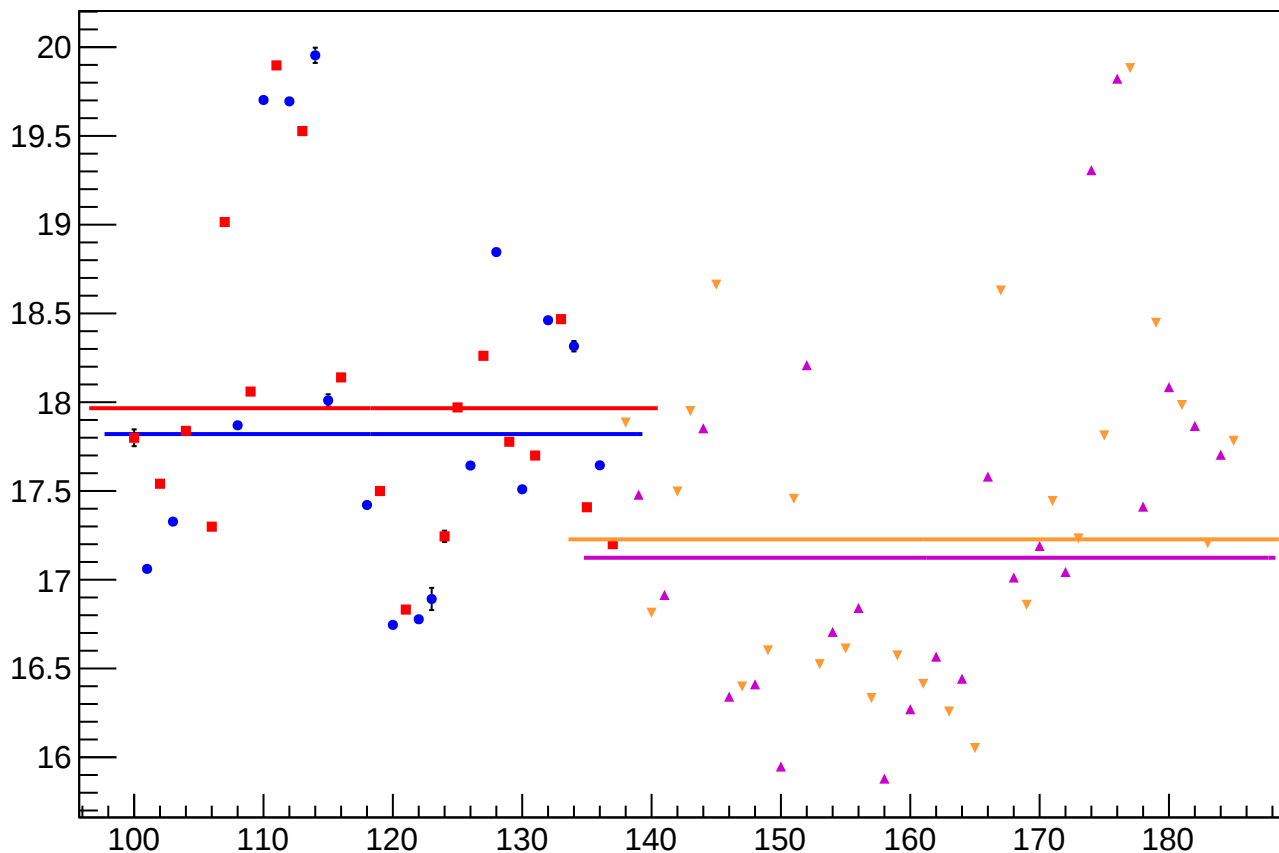
Right: -0.083 ± 4.817 $\chi^2/\text{NDF}: 29.3/35$

In: 2.982 ± 3.536 $\chi^2/\text{NDF}: 45.9/39$

Out: 5.009 ± 3.462 $\chi^2/\text{NDF}: 29.0/43$

All: 4.017 ± 2.474 $\chi^2/\text{NDF}: 75.1/83$

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: 17.227 $\pm$ 0.003 χ^2 /NDF: 98166.1/24

Right Out: 17.966 $\pm$ 0.005 χ^2 /NDF: 25320.4/18

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF: 100747.0/22

Left: 17.177 $\pm$ 0.002 χ^2 /NDF: 199560.0/47

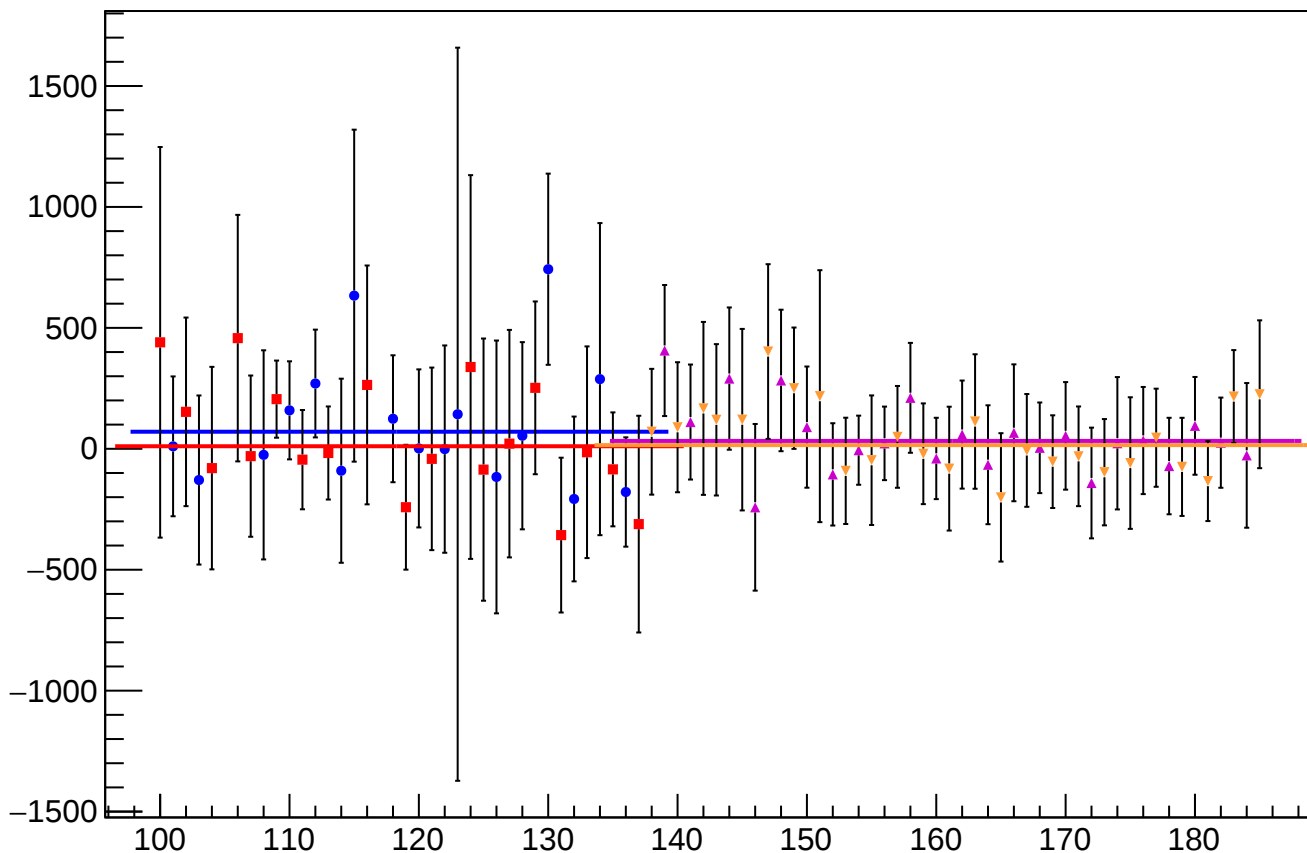
Right: 17.895 $\pm$ 0.003 χ^2 /NDF: 58060.9/35

In: 17.307 $\pm$ 0.003 χ^2 /NDF: 148106.3/39

Out: 17.422 $\pm$ 0.002 χ^2 /NDF: 141172.0/43

All: 17.366 $\pm$ 0.002 χ^2 /NDF: 290355.5/83

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: 15.213 $\pm$ 48.214 χ^2 /NDF:7.1/24

Right Out: 10.558 $\pm$ 71.025 χ^2 /NDF: 6.7/18

Left In: 32.571 $\pm$ 45.248 χ^2 /NDF:6.7/22

Left: 24.442 $\pm$ 32.994 χ^2 /NDF: 13.8/47

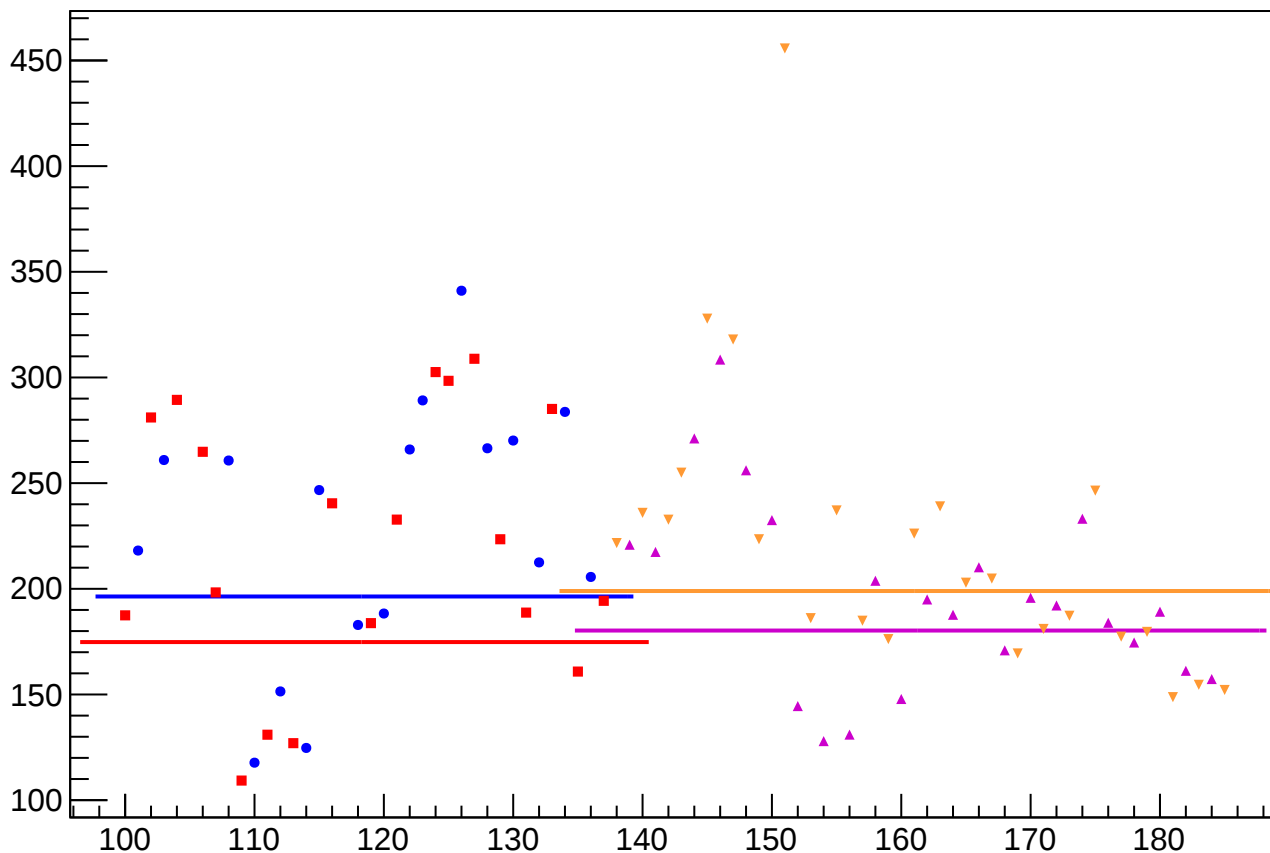
Right: 36.962 $\pm$ 53.162 χ^2 /NDF: 14.4/35

In: 41.759 $\pm$ 39.404 χ^2 /NDF:14.3/39

Out: 13.745 $\pm$ 39.891 χ^2 /NDF:13.8/43

All: 27.924 $\pm$ 28.034 χ^2 /NDF: 28.3/83

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.369 ± 0.057 $\chi^2/\text{NDF}: 965962.8/16$

Left Out: 198.958 ± 0.034 $\chi^2/\text{NDF}: 1747825.2/24$

Right Out: 174.800 ± 0.050 $\chi^2/\text{NDF}: 1506075.3/18$

Left In: 180.256 ± 0.032 $\chi^2/\text{NDF}: 1580553.5/22$

Left: 189.014 ± 0.023 $\chi^2/\text{NDF}: 3488375.8/47$

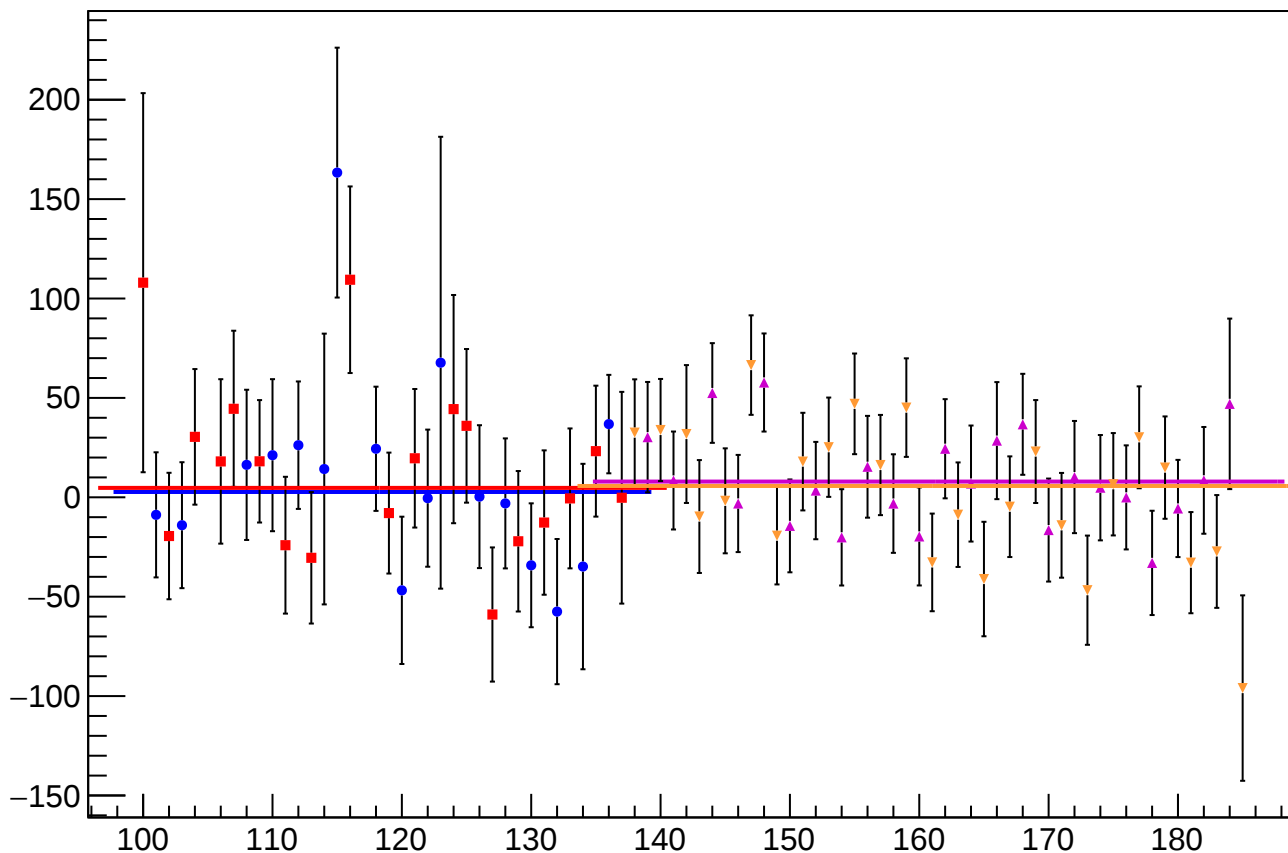
Right: 184.285 ± 0.038 $\chi^2/\text{NDF}: 2553145.1/35$

In: 184.149 ± 0.028 $\chi^2/\text{NDF}: 2607788.6/39$

Out: 191.337 ± 0.028 $\chi^2/\text{NDF}: 3412287.3/43$

All: 187.699 ± 0.020 $\chi^2/\text{NDF}: 6052945.6/83$

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.676 $\pm$ 8.772 χ^2 /NDF: 17.1/16

Left Out: 5.696 $\pm$ 5.299 χ^2 /NDF:36.0/24

Right Out: 4.736 $\pm$ 8.496 χ^2 /NDF: 16.6/18

Left In: 7.915 $\pm$ 5.422 χ^2 /NDF:18.7/22

Left: 6.780 $\pm$ 3.790 χ^2 /NDF: 54.8/47

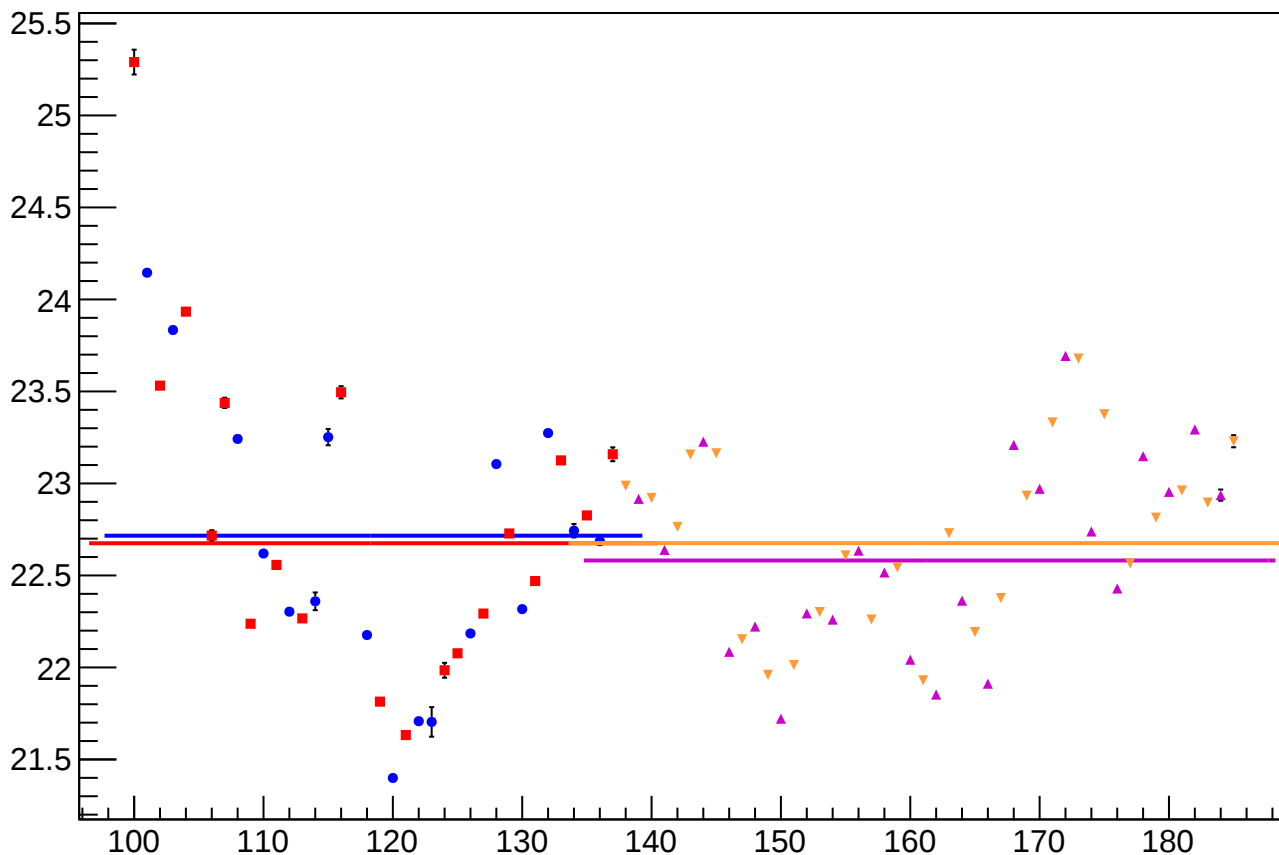
Right: 3.739 $\pm$ 6.103 χ^2 /NDF: 33.7/35

In: 6.467 $\pm$ 4.612 χ^2 /NDF:36.0/39

Out: 5.427 $\pm$ 4.496 χ^2 /NDF:52.6/43

All: 5.934 $\pm$ 3.219 χ^2 /NDF: 88.7/83

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: 22.676 $\pm$ 0.004 χ^2 /NDF:15848.8/24

Right Out: 22.675 $\pm$ 0.006 χ^2 /NDF: 12796.3/18

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

Left: 22.630 $\pm$ 0.003 χ^2 /NDF: 34063.0/47

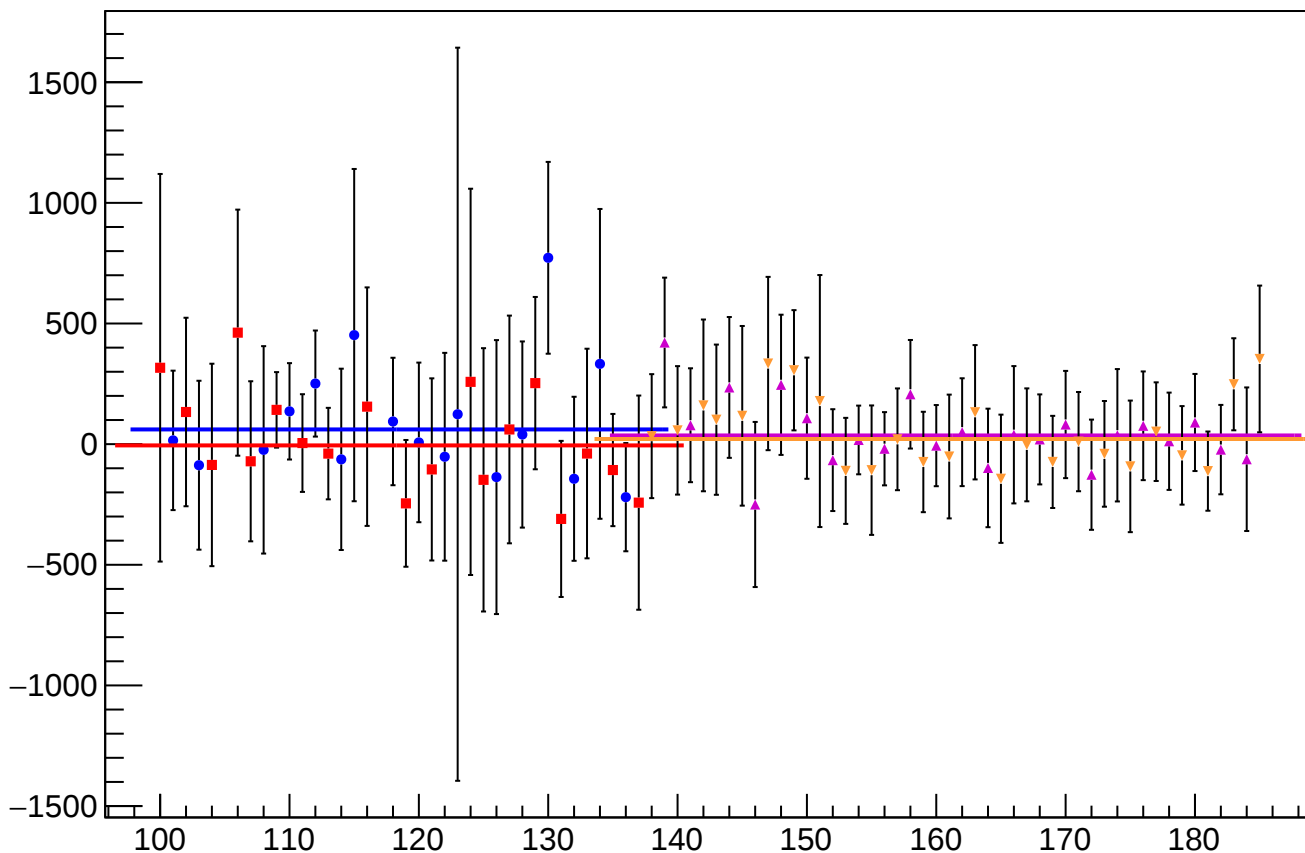
Right: 22.695 $\pm$ 0.004 χ^2 /NDF: 26877.1/35

In: 22.619 $\pm$ 0.003 χ^2 /NDF:32304.0/39

Out: 22.675 $\pm$ 0.003 χ^2 /NDF:28645.2/43

All: 22.648 $\pm$ 0.002 χ^2 /NDF: 61105.3/83

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: 21.317 $\pm$ 48.134 χ^2 /NDF: 7.8/24

Right Out: -5.234 $\pm$ 70.529 χ^2 /NDF: 5.2/18

Left In: 35.996 $\pm$ 45.180 χ^2 /NDF: 6.1/22

Left: 29.120 $\pm$ 32.942 χ^2 /NDF: 13.9/47

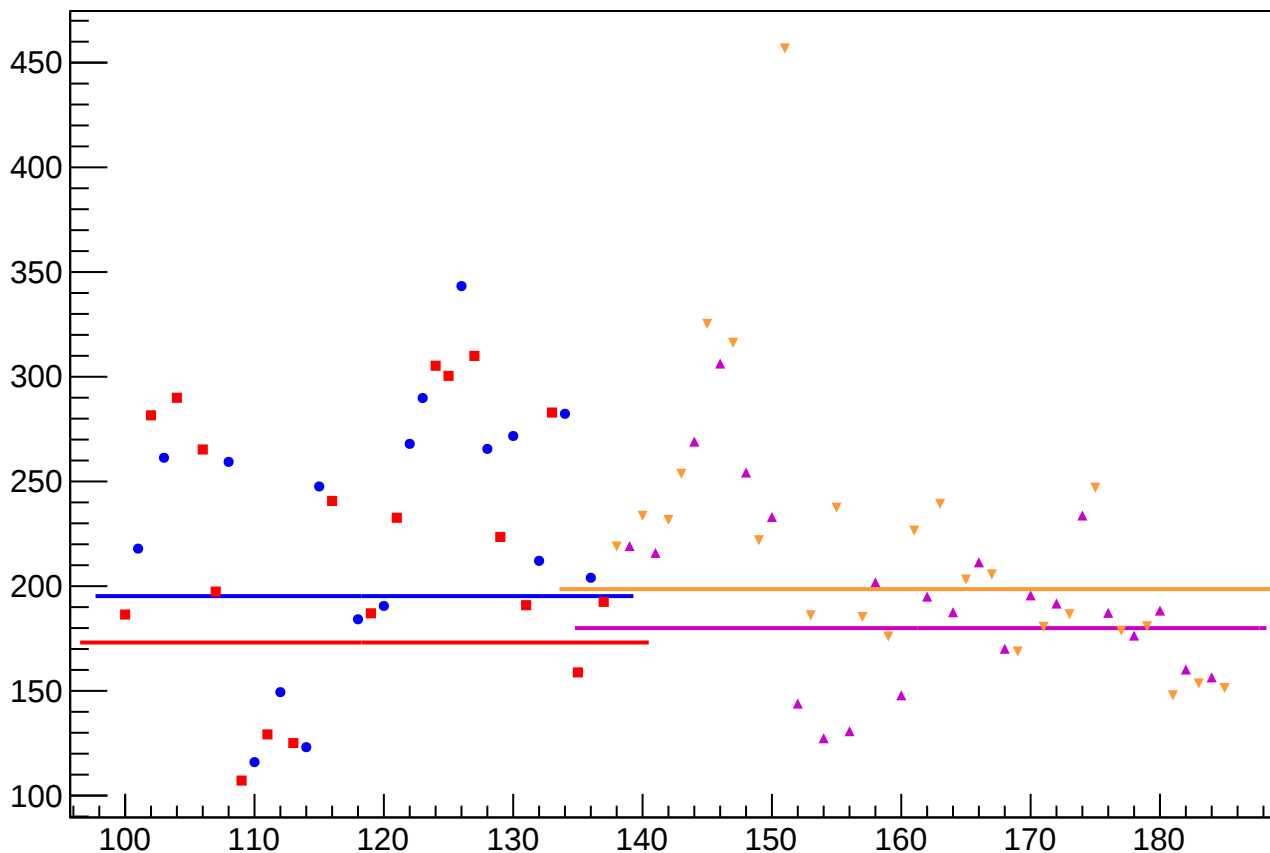
Right: 23.793 $\pm$ 52.855 χ^2 /NDF: 12.7/35

In: 42.056 $\pm$ 39.319 χ^2 /NDF: 13.2/39

Out: 12.880 $\pm$ 39.758 χ^2 /NDF: 13.1/43

All: 27.630 $\pm$ 27.957 χ^2 /NDF: 26.6/83

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: 198.608 $\pm$ 0.034 χ^2 /NDF:1746250.3/24

Right Out: 173.101 $\pm$ 0.050 χ^2 /NDF: 1572691.1/18

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.701 $\pm$ 0.023 χ^2 /NDF: 3481519.5/47

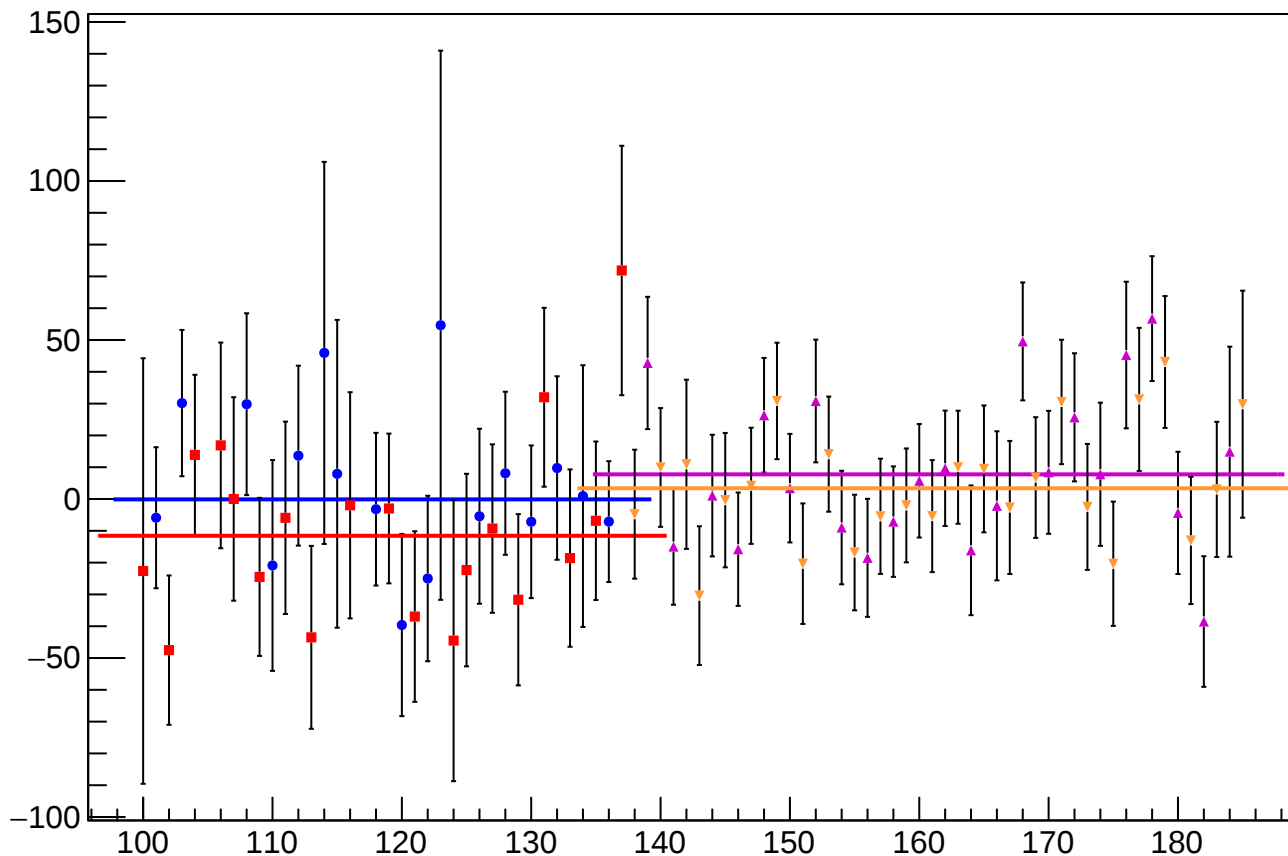
Right: 182.810 $\pm$ 0.037 χ^2 /NDF: 2664478.8/35

In: 183.678 $\pm$ 0.028 χ^2 /NDF:2636690.8/39

Out: 190.503 $\pm$ 0.028 χ^2 /NDF:3497406.3/43

All: 187.053 $\pm$ 0.020 χ^2 /NDF: 6163889.8/83

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: 3.385 ± 3.965 χ^2/NDF : 19.0/24

Right Out: -11.560 ± 6.642 χ^2/NDF : 15.2/18

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.518 ± 2.837 χ^2/NDF : 53.9/47

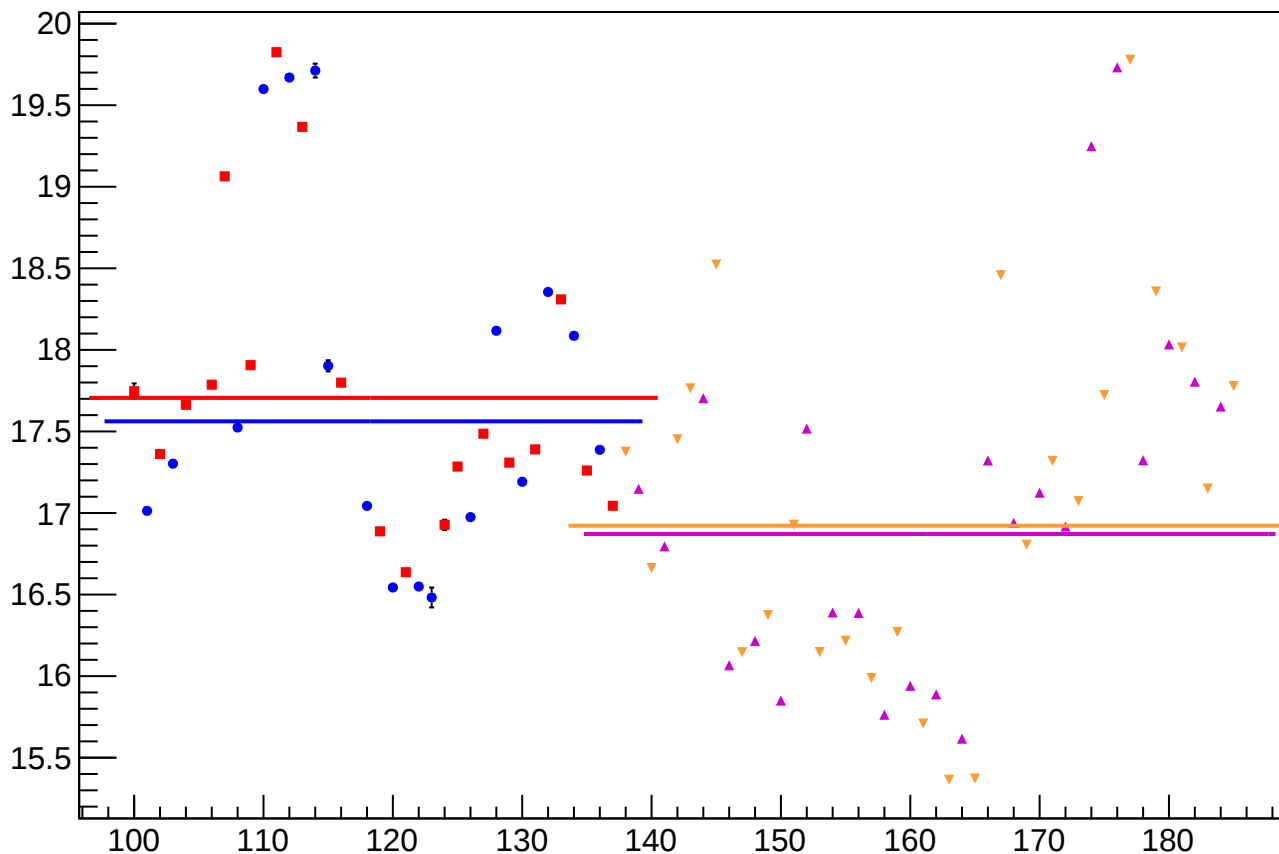
Right: -5.959 ± 4.747 χ^2/NDF : 24.5/35

In: 5.682 ± 3.485 χ^2/NDF : 43.1/39

Out: -0.541 ± 3.404 χ^2/NDF : 38.0/43

All: 2.498 ± 2.435 χ^2/NDF : 82.7/83

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: 16.922 $\pm$ 0.003 χ^2 /NDF:137919.9/24

Right Out: 17.706 $\pm$ 0.005 χ^2 /NDF: 30251.5/18

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.897 $\pm$ 0.002 χ^2 /NDF: 256074.0/47

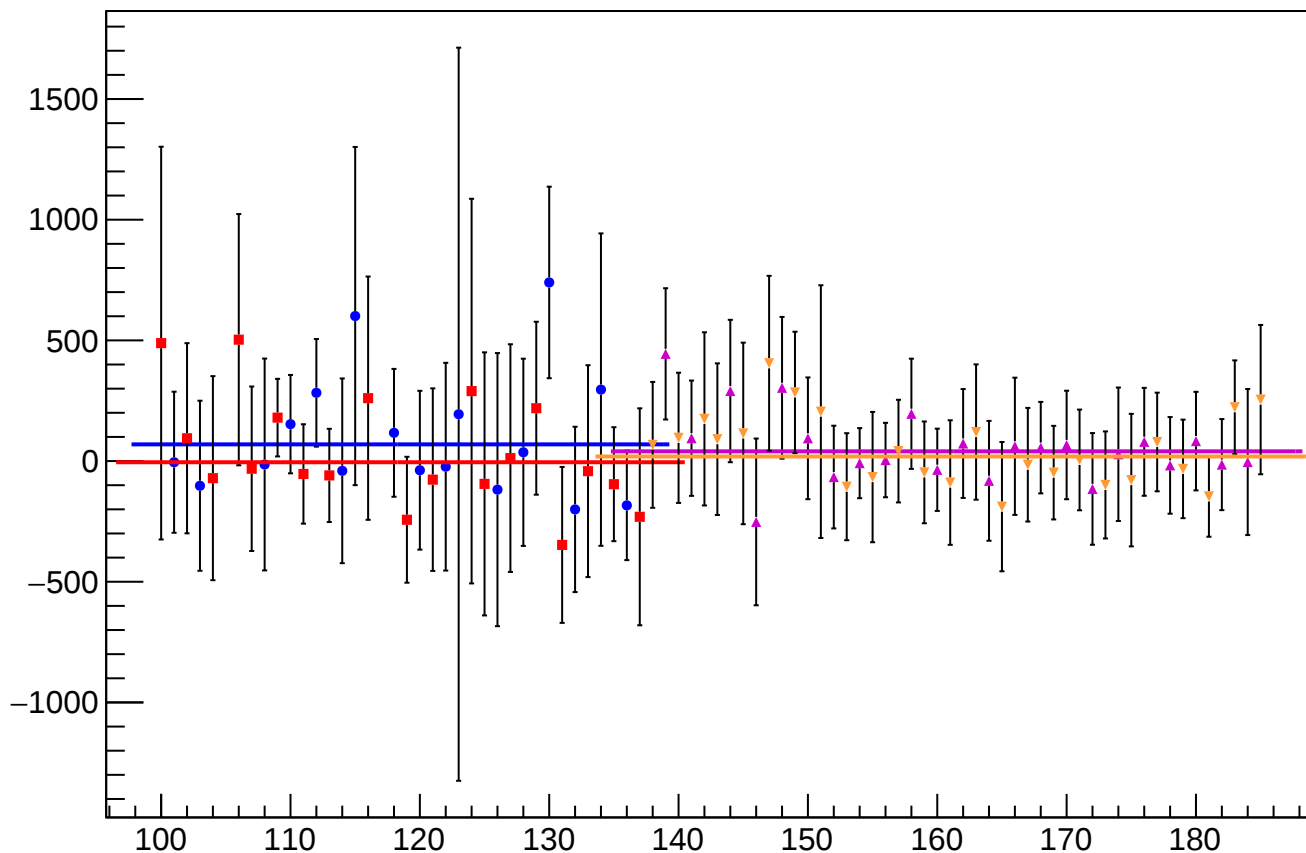
Right: 17.635 $\pm$ 0.003 χ^2 /NDF: 64646.6/35

In: 17.053 $\pm$ 0.002 χ^2 /NDF:167184.9/39

Out: 17.128 $\pm$ 0.002 χ^2 /NDF:188693.4/43

All: 17.092 $\pm$ 0.002 χ^2 /NDF: 356346.6/83

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: 18.978 $\pm$ 48.633 χ^2 /NDF:7.6/24

Right Out: -4.849 $\pm$ 71.521 χ^2 /NDF: 6.1/18

Left In: 40.355 $\pm$ 45.689 χ^2 /NDF:6.6/22

Left: 30.333 $\pm$ 33.299 χ^2 /NDF: 14.3/47

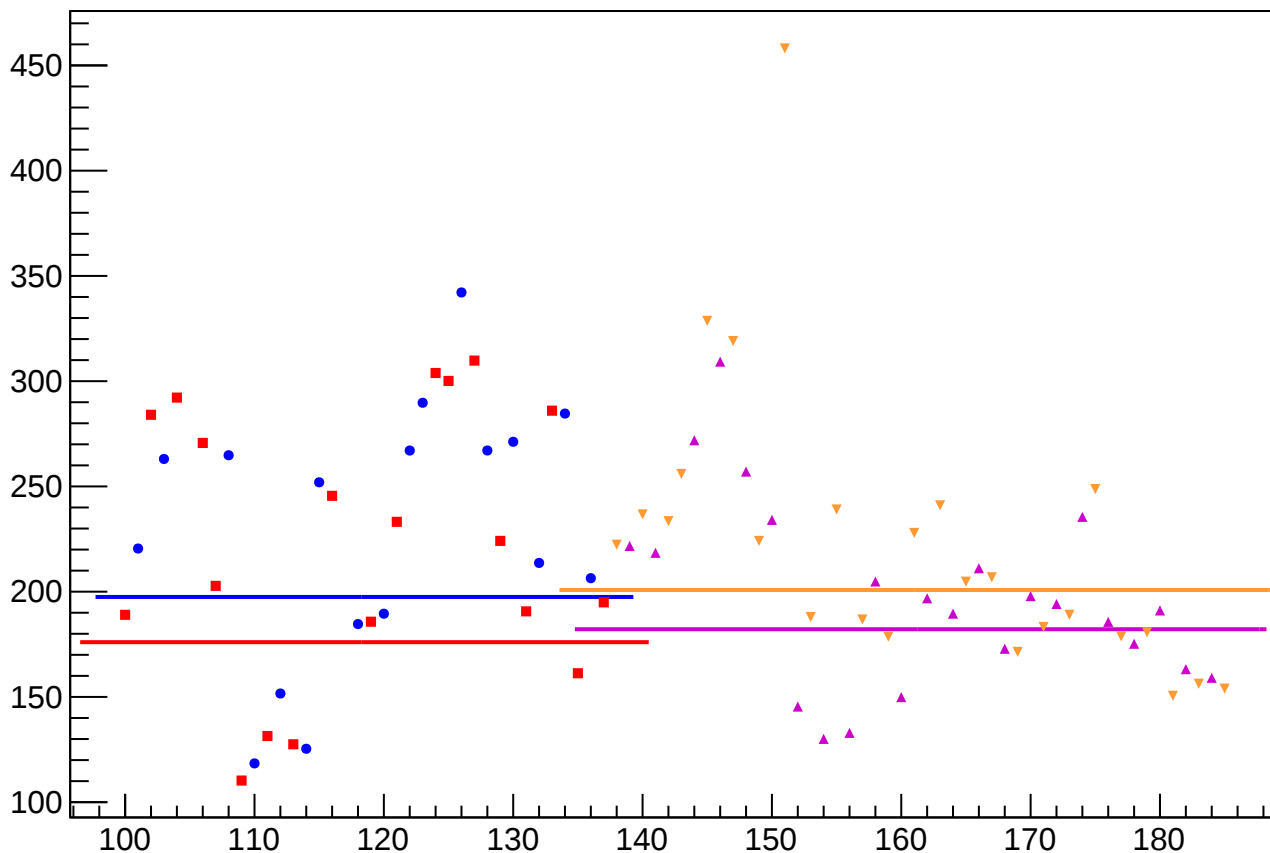
Right: 27.765 $\pm$ 53.506 χ^2 /NDF: 13.8/35

In: 47.370 $\pm$ 39.751 χ^2 /NDF:14.0/39

Out: 11.444 $\pm$ 40.216 χ^2 /NDF:13.8/43

All: 29.616 $\pm$ 28.271 χ^2 /NDF: 28.2/83

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: 200.807 $\pm$ 0.034 χ^2 /NDF: 1715237.8/24

Right Out: 176.016 $\pm$ 0.051 χ^2 /NDF: 1514778.3/18

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF: 1535922.8/22

Left: 190.901 $\pm$ 0.024 χ^2 /NDF: 3407375.1/47

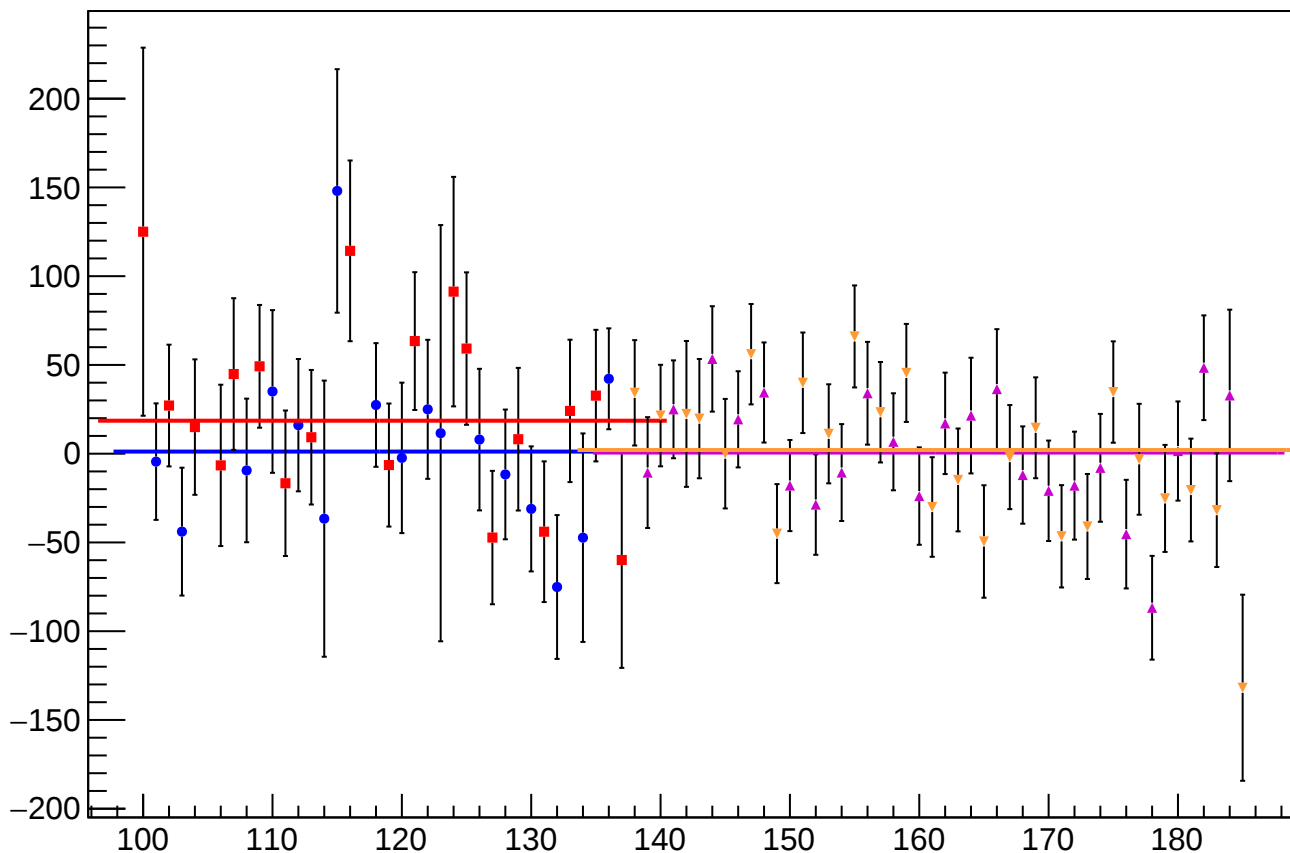
Right: 185.475 $\pm$ 0.038 χ^2 /NDF: 2565103.3/35

In: 185.886 $\pm$ 0.028 χ^2 /NDF: 2561590.8/39

Out: 192.969 $\pm$ 0.028 χ^2 /NDF: 3394339.4/43

All: 189.386 $\pm$ 0.020 χ^2 /NDF: 5987305.2/83

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.189+/-9.848 χ^2/NDF : 15.4/16

Left Out: 2.059+/-5.996 χ^2/NDF :38.4/24

Right Out: 18.582+/-9.518 χ^2/NDF : 18.4/18

Left In: 0.641+/-6.091 χ^2/NDF :27.3/22

Left: 1.361+/-4.273 χ^2/NDF : 65.8/47

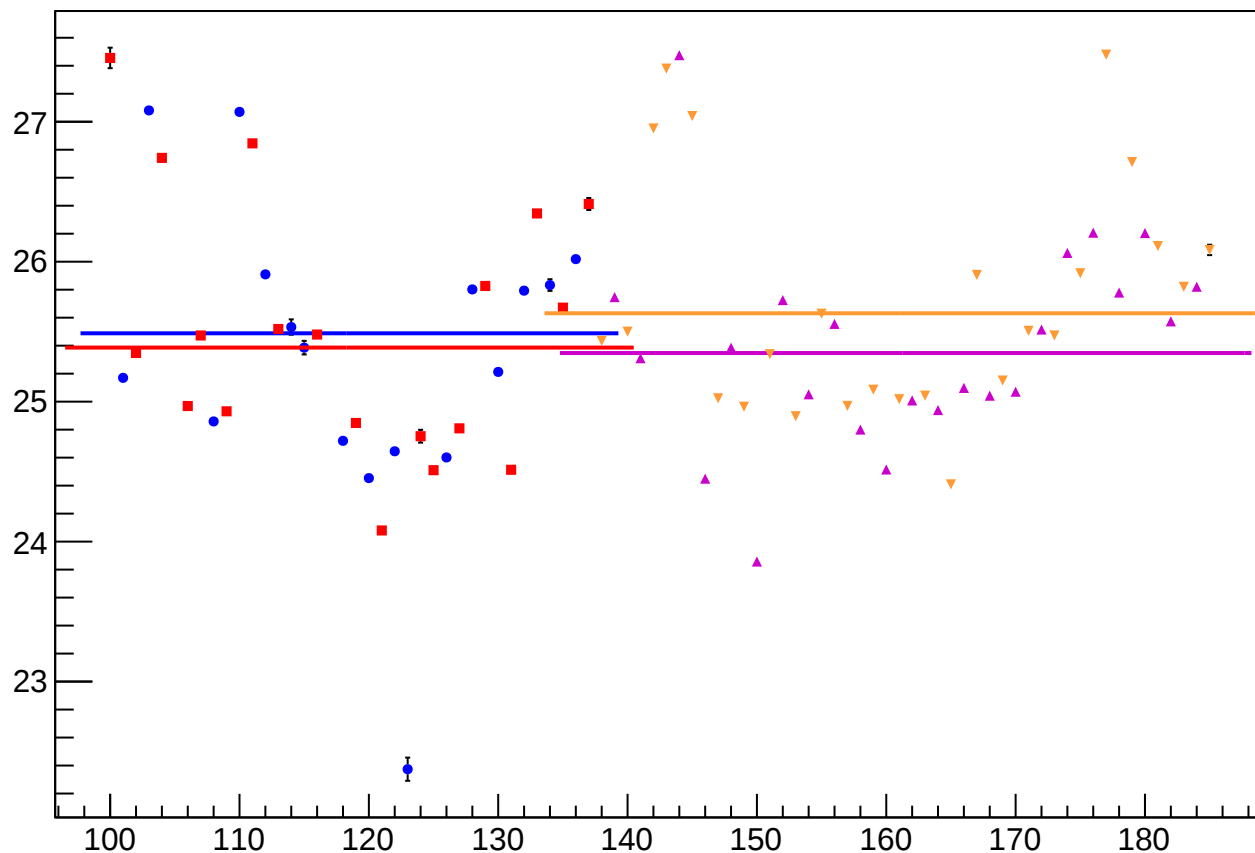
Right: 10.182+/-6.844 χ^2/NDF : 35.5/35

In: 0.793+/-5.180 χ^2/NDF :42.8/39

Out: 6.753+/-5.073 χ^2/NDF :59.0/43

All: 3.835+/-3.625 χ^2/NDF : 102.4/83

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: 25.631 $\pm$ 0.004 χ^2 /NDF:33471.9/24

Right Out: 25.386 $\pm$ 0.007 χ^2 /NDF: 13699.1/18

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF:29389.5/22

Left: 25.492 $\pm$ 0.003 χ^2 /NDF: 65070.0/47

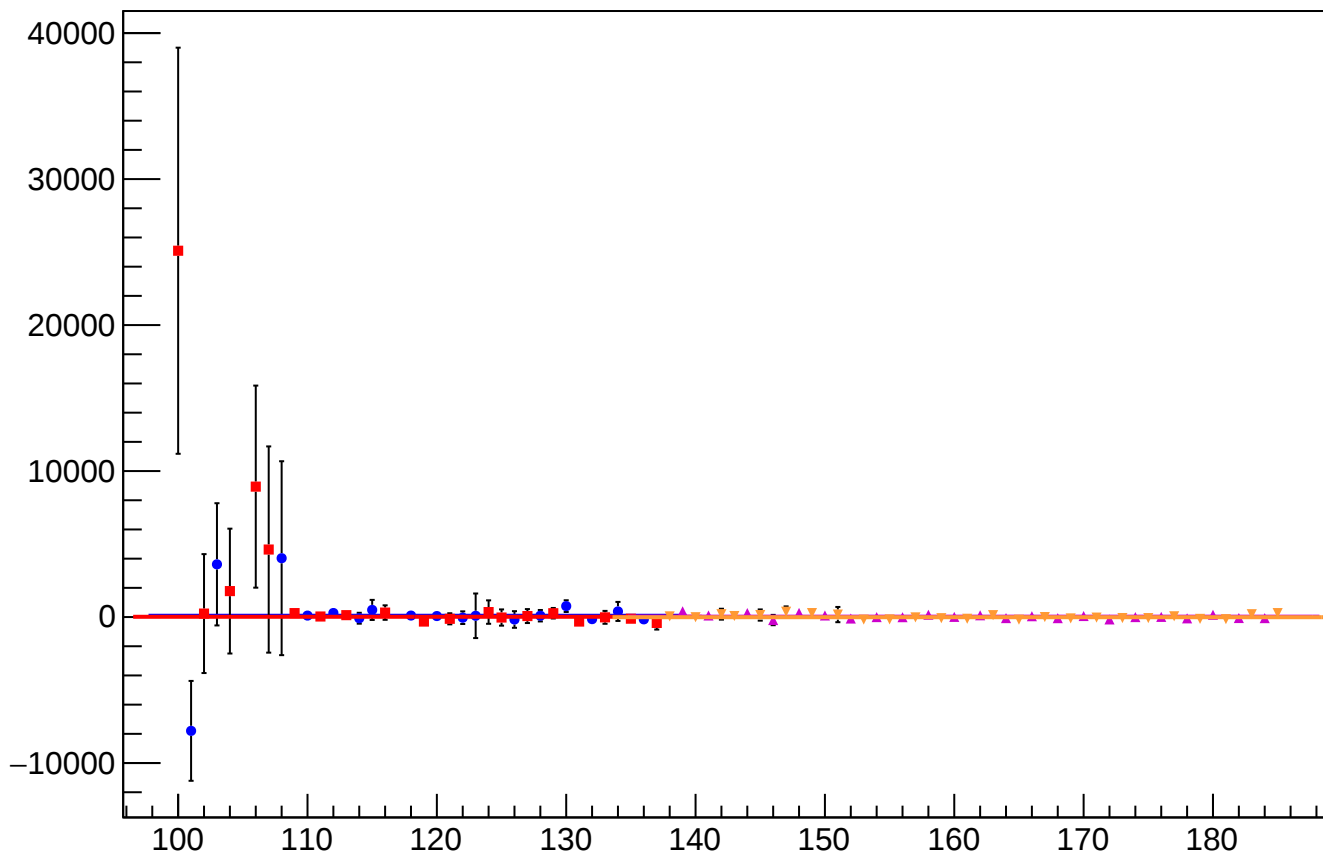
Right: 25.436 $\pm$ 0.005 χ^2 /NDF: 27678.0/35

In: 25.386 $\pm$ 0.004 χ^2 /NDF:43553.7/39

Out: 25.562 $\pm$ 0.004 χ^2 /NDF:48121.0/43

All: 25.476 $\pm$ 0.003 χ^2 /NDF: 92844.6/83

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: -10.572+/-48.341 χ^2/NDF : 8.1/24

Right Out: 18.864+/-80.923 χ^2/NDF : 12.0/18

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 9.198+/-33.323 χ^2/NDF : 15.6/47

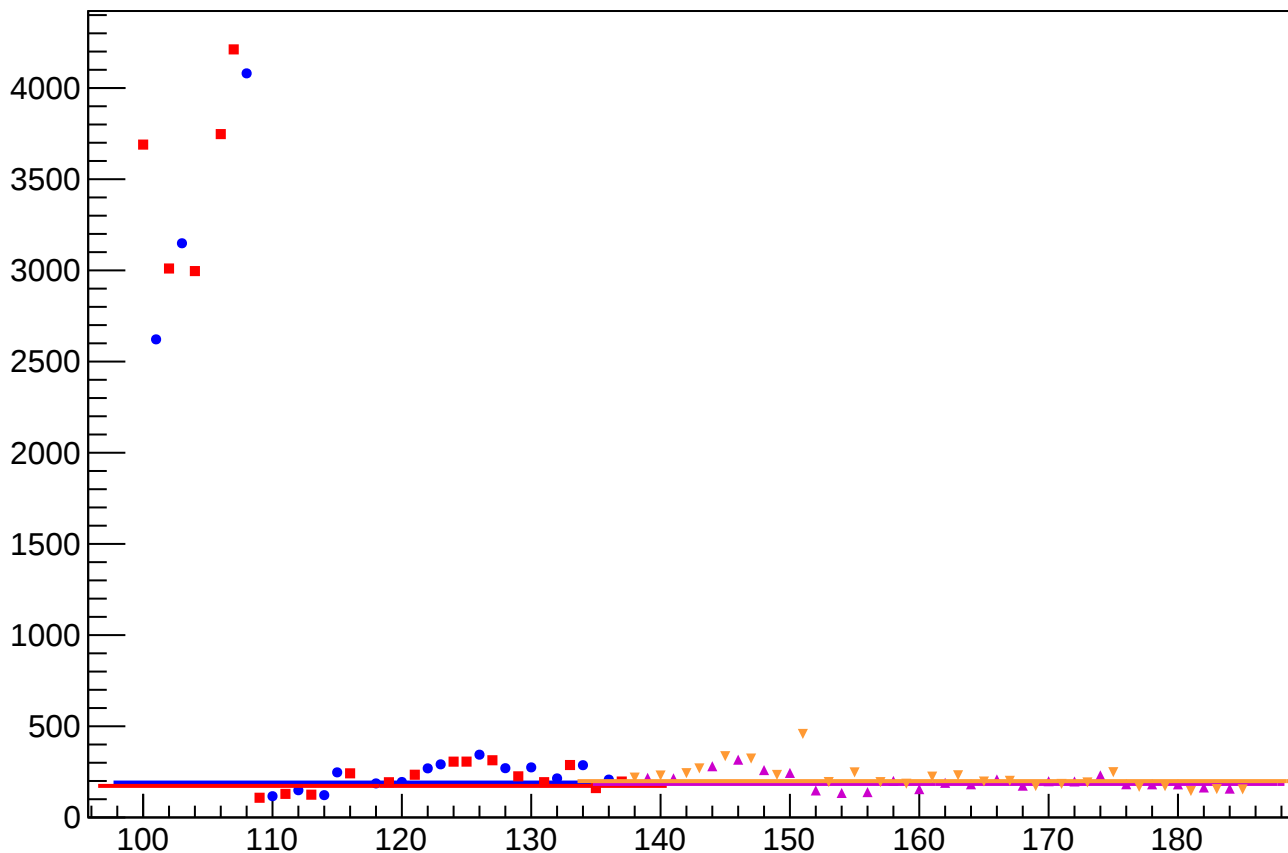
Right: 51.137+/-59.541 χ^2/NDF : 24.8/35

In: 40.450+/-40.757 χ^2/NDF : 20.1/39

Out: -2.831+/-41.500 χ^2/NDF : 20.1/43

All: 19.201+/-29.079 χ^2/NDF : 40.7/83

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: 199.240+/-0.034 χ^2/NDF : 1862284.2/24

Right Out: 173.068+/-0.057 χ^2/NDF : 4201509.7/18

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.139+/-0.024 χ^2/NDF : 3382159.2/47

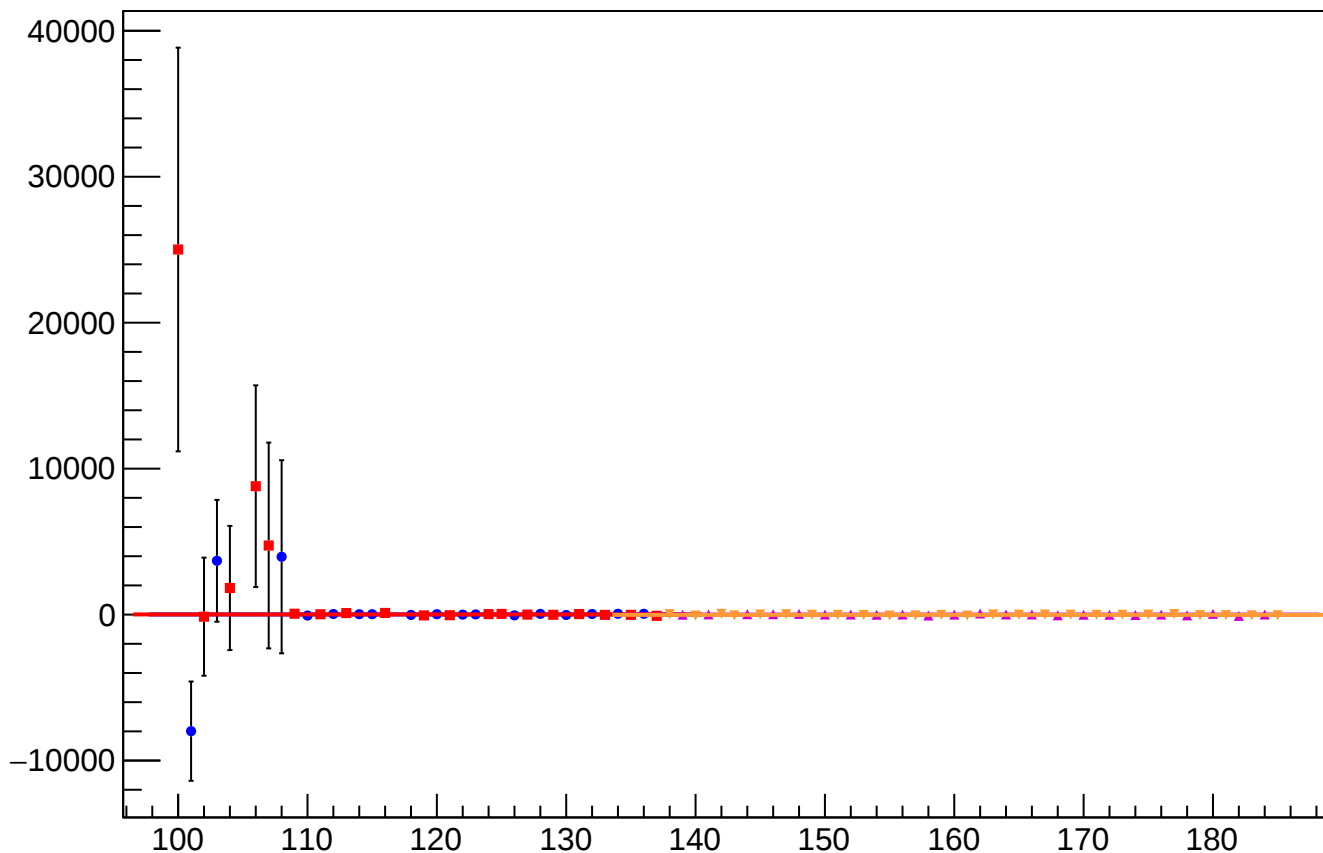
Right: 181.486+/-0.042 χ^2/NDF : 7822251.9/35

In: 185.442+/-0.029 χ^2/NDF : 4998213.0/39

Out: 192.357+/-0.029 χ^2/NDF : 6217966.7/43

All: 188.837+/-0.021 χ^2/NDF : 11244442.7/83

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.464 $\pm$ 12.227 χ^2 /NDF: 18.3/16

Left Out: -17.651 $\pm$ 6.717 χ^2 /NDF:21.0/24

Right Out: 11.883 $\pm$ 12.264 χ^2 /NDF: 23.9/18

Left In: 1.267 $\pm$ 6.908 χ^2 /NDF:32.0/22

Left: -8.457 $\pm$ 4.816 χ^2 /NDF: 56.9/47

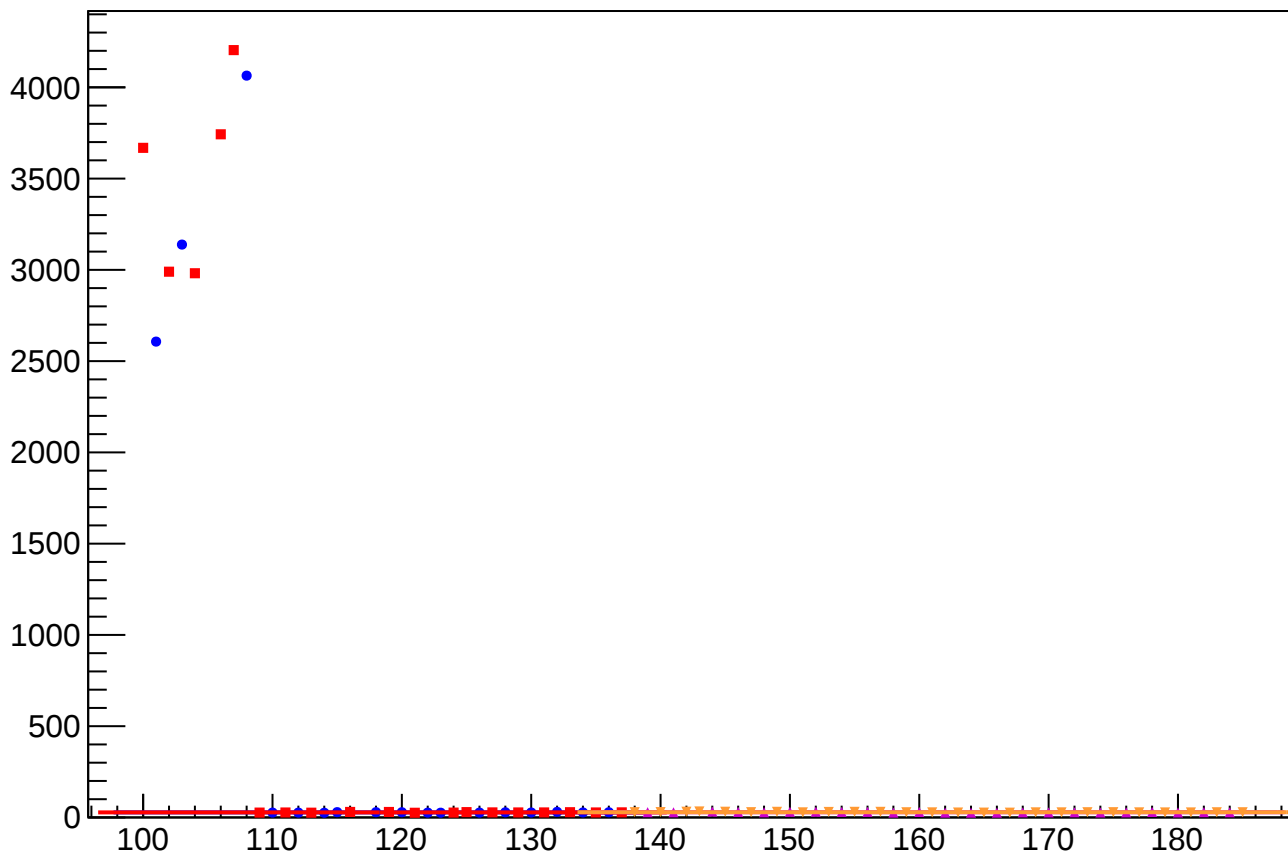
Right: 11.673 $\pm$ 8.659 χ^2 /NDF: 42.1/35

In: 3.735 $\pm$ 6.014 χ^2 /NDF:50.8/39

Out: -10.836 $\pm$ 5.891 χ^2 /NDF:49.3/43

All: -3.701 $\pm$ 4.209 χ^2 /NDF: 103.1/83

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: 28.671+/-0.005 χ^2/NDF :104996.2/24

Right Out: 27.714+/-0.009 χ^2/NDF : 3476894.0/18

Left In: 28.677+/-0.005 χ^2/NDF :123814.4/22

Left: 28.674+/-0.003 χ^2/NDF : 228811.2/47

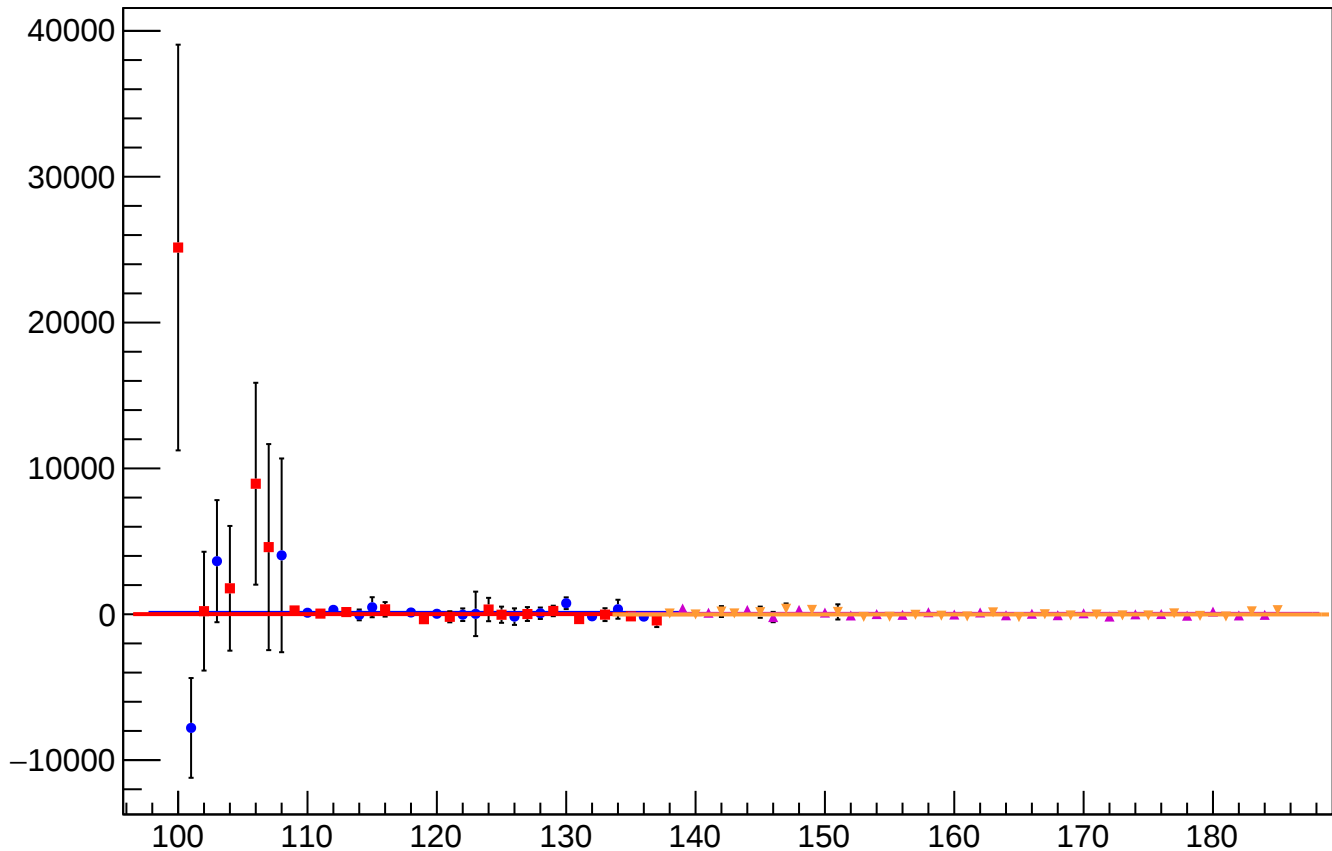
Right: 27.786+/-0.006 χ^2/NDF : 6503982.3/35

In: 28.479+/-0.004 χ^2/NDF :3157563.4/39

Out: 28.450+/-0.004 χ^2/NDF :3591270.5/43

All: 28.464+/-0.003 χ^2/NDF : 6748856.3/83

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: -12.835+/-48.234 χ^2/NDF : 8.9/24

Right Out: 9.116+/-80.662 χ^2/NDF : 12.8/18

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 8.217+/-33.253 χ^2/NDF : 16.7/47

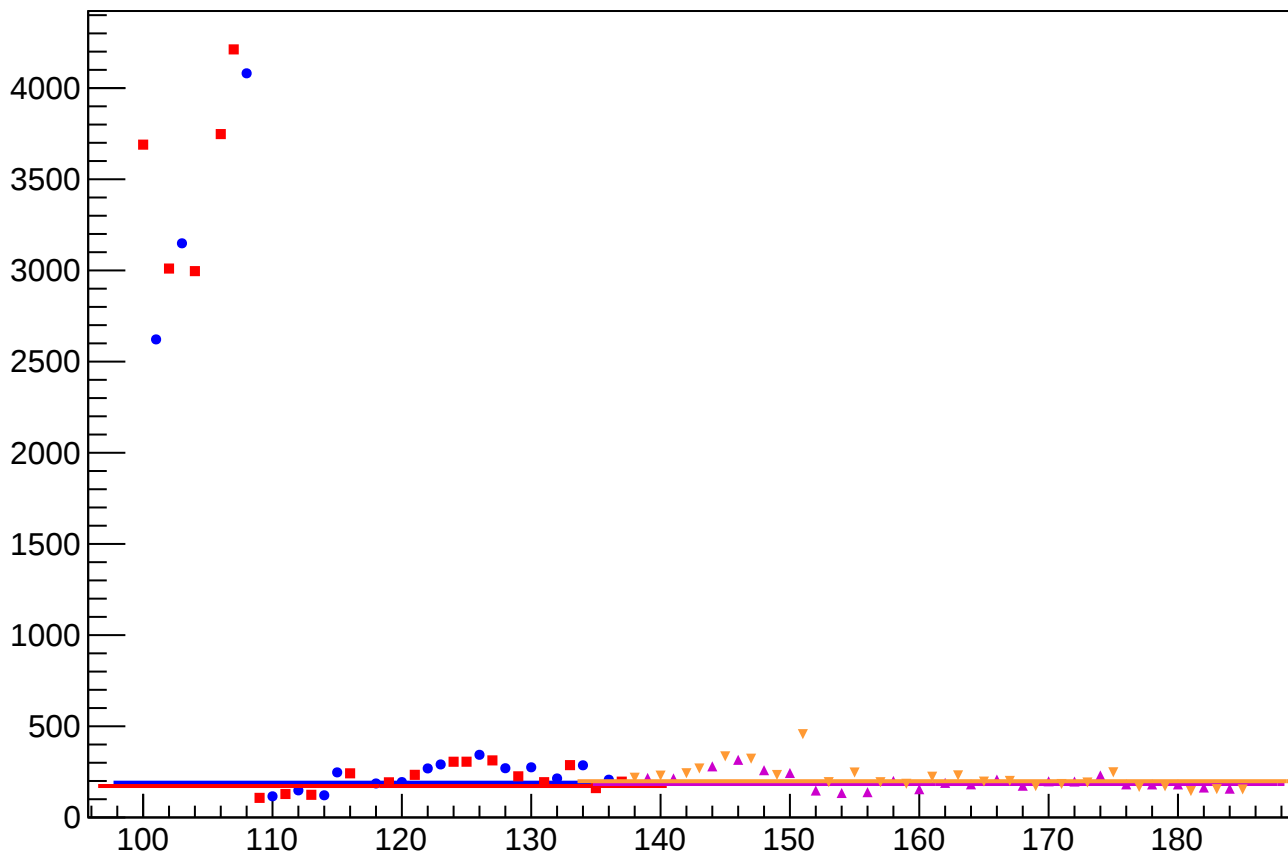
Right: 47.952+/-59.352 χ^2/NDF : 26.0/35

In: 41.607+/-40.666 χ^2/NDF : 20.6/39

Out: -7.053+/-41.397 χ^2/NDF : 21.7/43

All: 17.710+/-29.010 χ^2/NDF : 43.0/83

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: 198.799 $\pm$ 0.034 χ^2 /NDF:1862064.9/24

Right Out: 172.402 $\pm$ 0.057 χ^2 /NDF: 4212674.3/18

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF:1412341.8/22

Left: 190.741 $\pm$ 0.024 χ^2 /NDF: 3380786.3/47

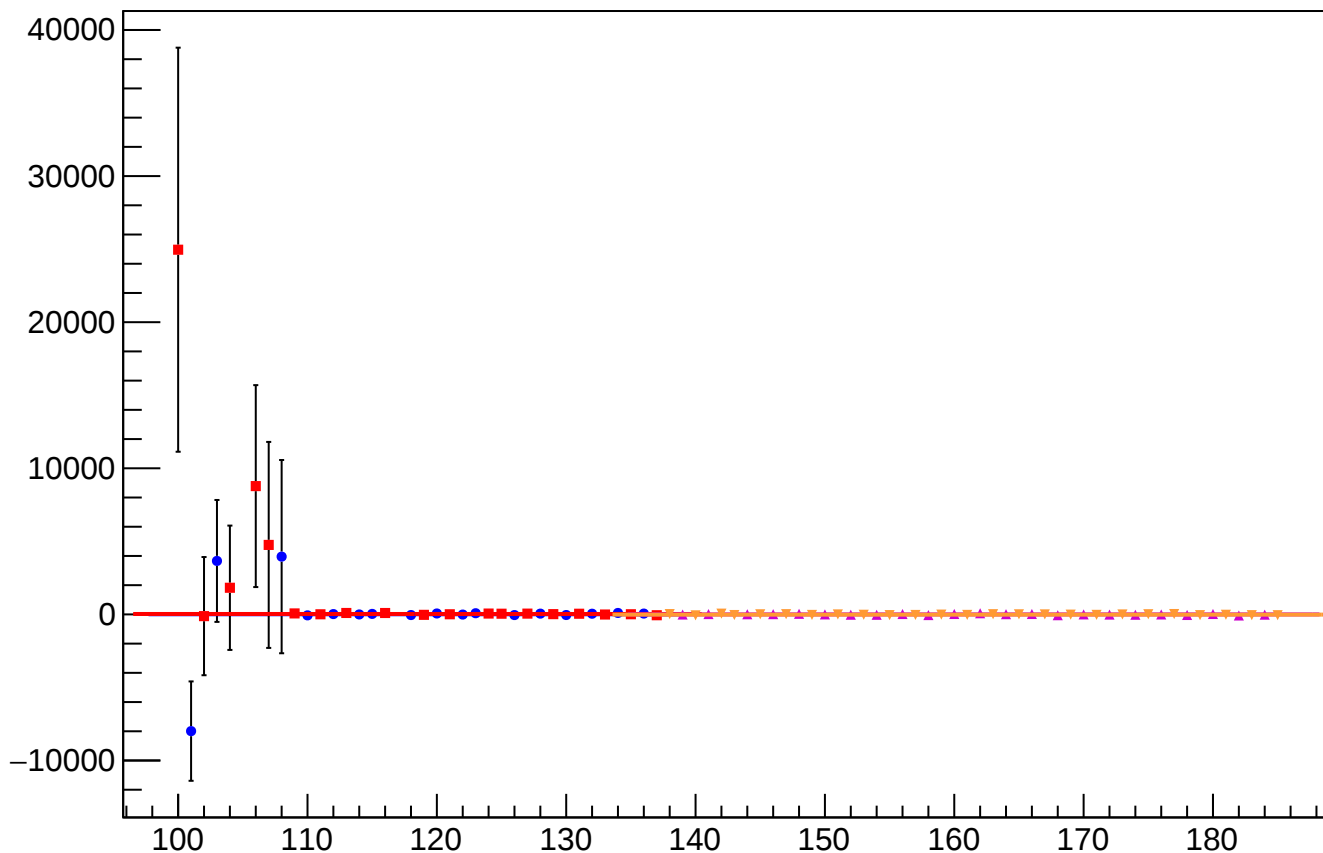
Right: 180.799 $\pm$ 0.042 χ^2 /NDF: 7845341.0/35

In: 185.007 $\pm$ 0.029 χ^2 /NDF:5008550.1/39

Out: 191.846 $\pm$ 0.029 χ^2 /NDF:6232507.5/43

All: 188.366 $\pm$ 0.021 χ^2 /NDF: 11268838.1/83

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: -15.595+/-6.747 χ^2/NDF : 16.3/24

Right Out: 28.414+/-12.365 χ^2/NDF : 16.2/18

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.256+/-4.836 χ^2/NDF : 44.8/47

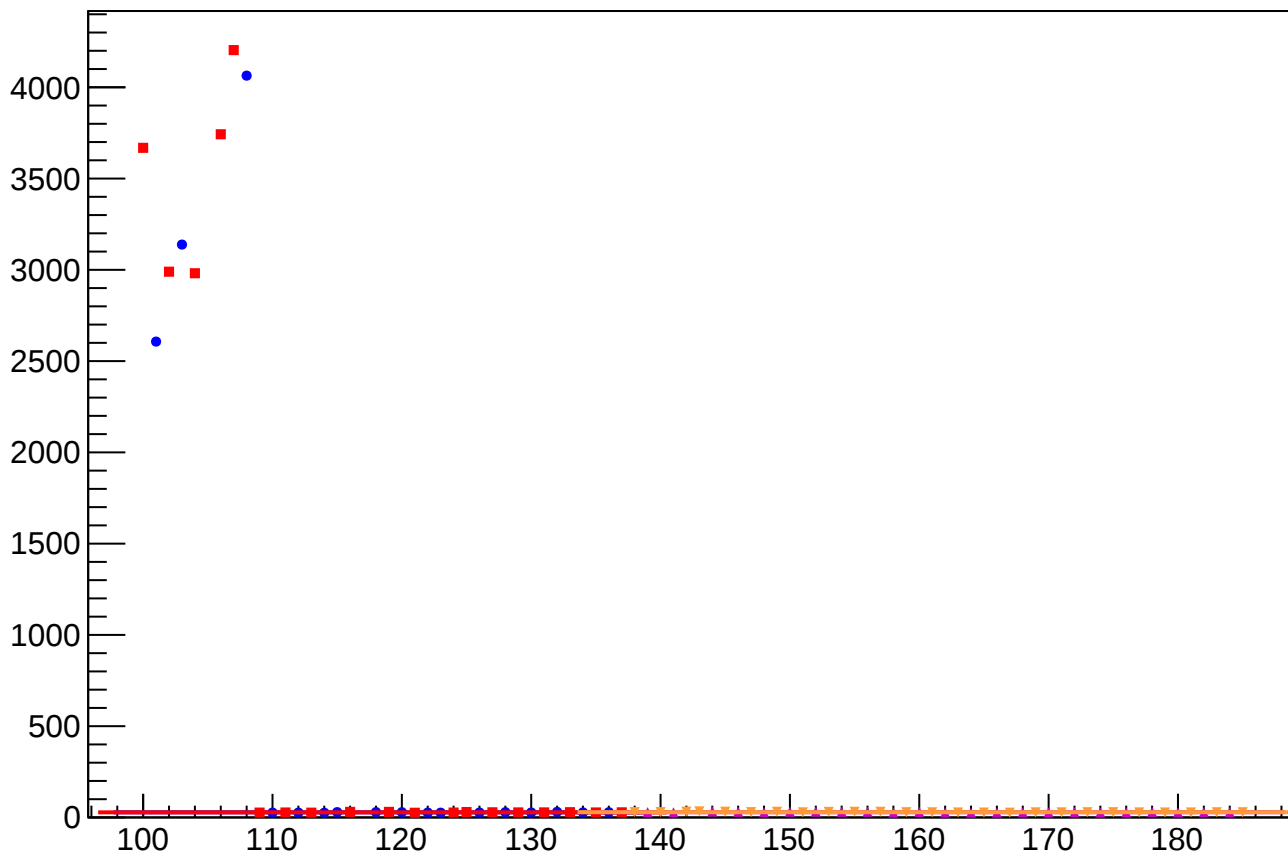
Right: 18.908+/-8.724 χ^2/NDF : 39.9/35

In: 1.909+/-6.043 χ^2/NDF : 49.1/39

Out: -5.499+/-5.922 χ^2/NDF : 42.3/43

All: -1.870+/-4.230 χ^2/NDF : 92.1/83

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: 28.791 $\pm$ 0.005 χ^2 /NDF: 116417.7/24

Right Out: 27.934 $\pm$ 0.009 χ^2 /NDF: 3479779.2/18

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF: 128279.2/22

Left: 28.794 $\pm$ 0.003 χ^2 /NDF: 244697.7/47

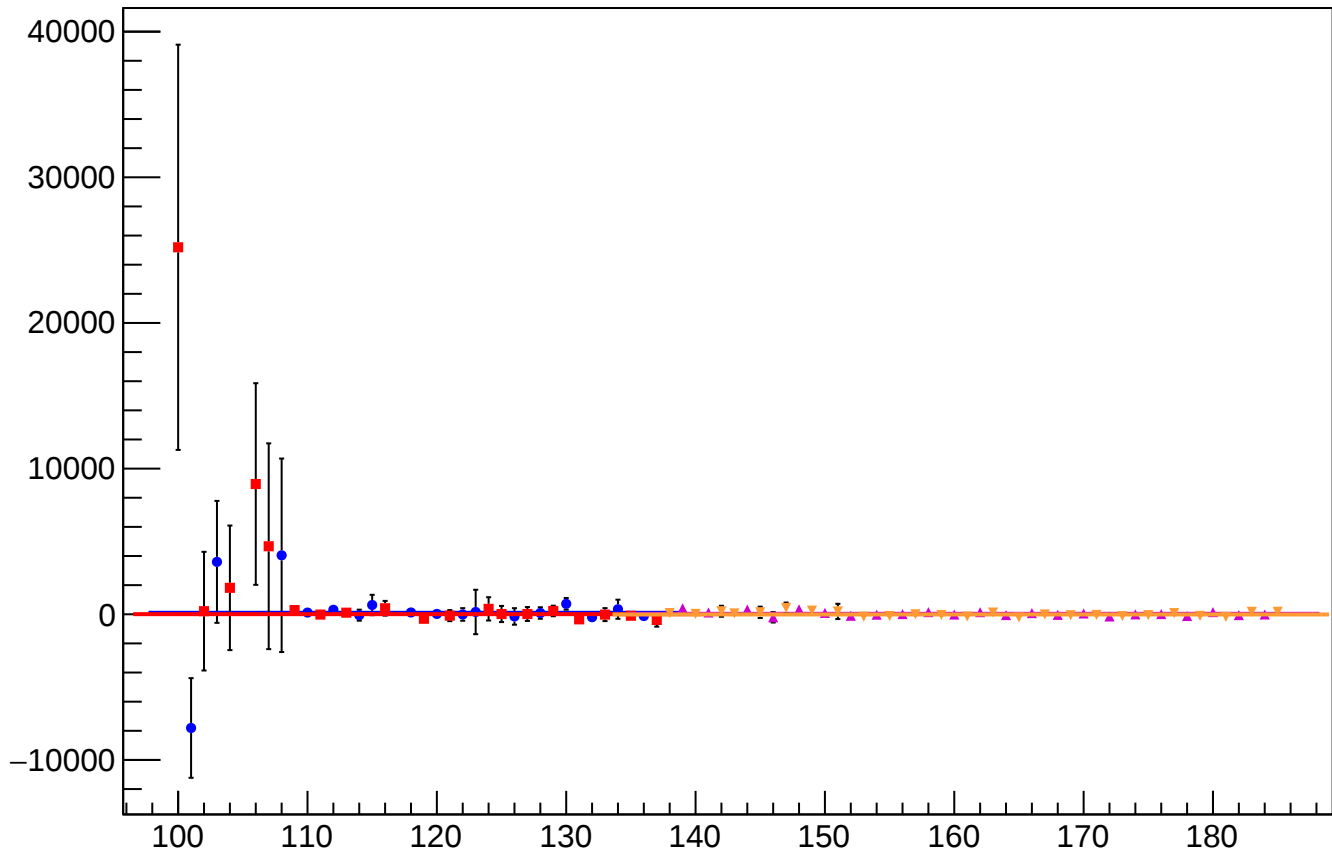
Right: 27.988 $\pm$ 0.006 χ^2 /NDF: 6507169.2/35

In: 28.615 $\pm$ 0.004 χ^2 /NDF: 3161321.7/39

Out: 28.595 $\pm$ 0.004 χ^2 /NDF: 3603600.6/43

All: 28.605 $\pm$ 0.003 χ^2 /NDF: 6764933.8/83

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: -12.976 $\pm$ 48.815 χ^2 /NDF: 8.2/24

Right Out: 7.957 $\pm$ 81.751 χ^2 /NDF: 12.3/18

Left In: 31.477 $\pm$ 46.483 χ^2 /NDF: 7.8/22

Left: 10.337 $\pm$ 33.663 χ^2 /NDF: 16.5/47

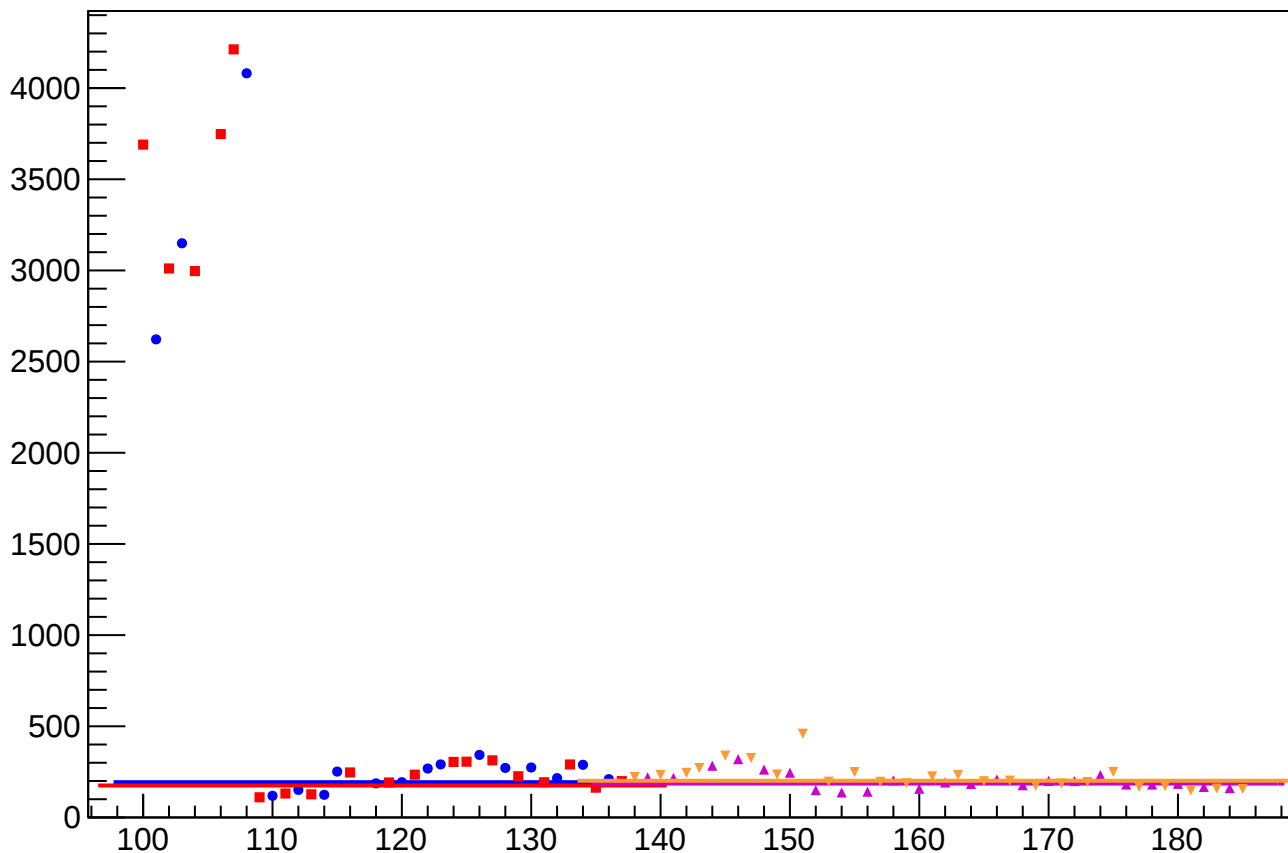
Right: 50.971 $\pm$ 60.108 χ^2 /NDF: 25.4/35

In: 46.588 $\pm$ 41.170 χ^2 /NDF: 20.9/39

Out: -7.474 $\pm$ 41.911 χ^2 /NDF: 20.5/43

All: 20.039 $\pm$ 29.370 χ^2 /NDF: 42.3/83

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.420 $\pm$ 0.063 χ^2 /NDF: 3538238.9/16

Left Out: 201.303 $\pm$ 0.035 χ^2 /NDF:1839479.6/24

Right Out: 175.281 $\pm$ 0.058 χ^2 /NDF: 4160209.8/18

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.213 $\pm$ 0.024 χ^2 /NDF: 3325081.7/47

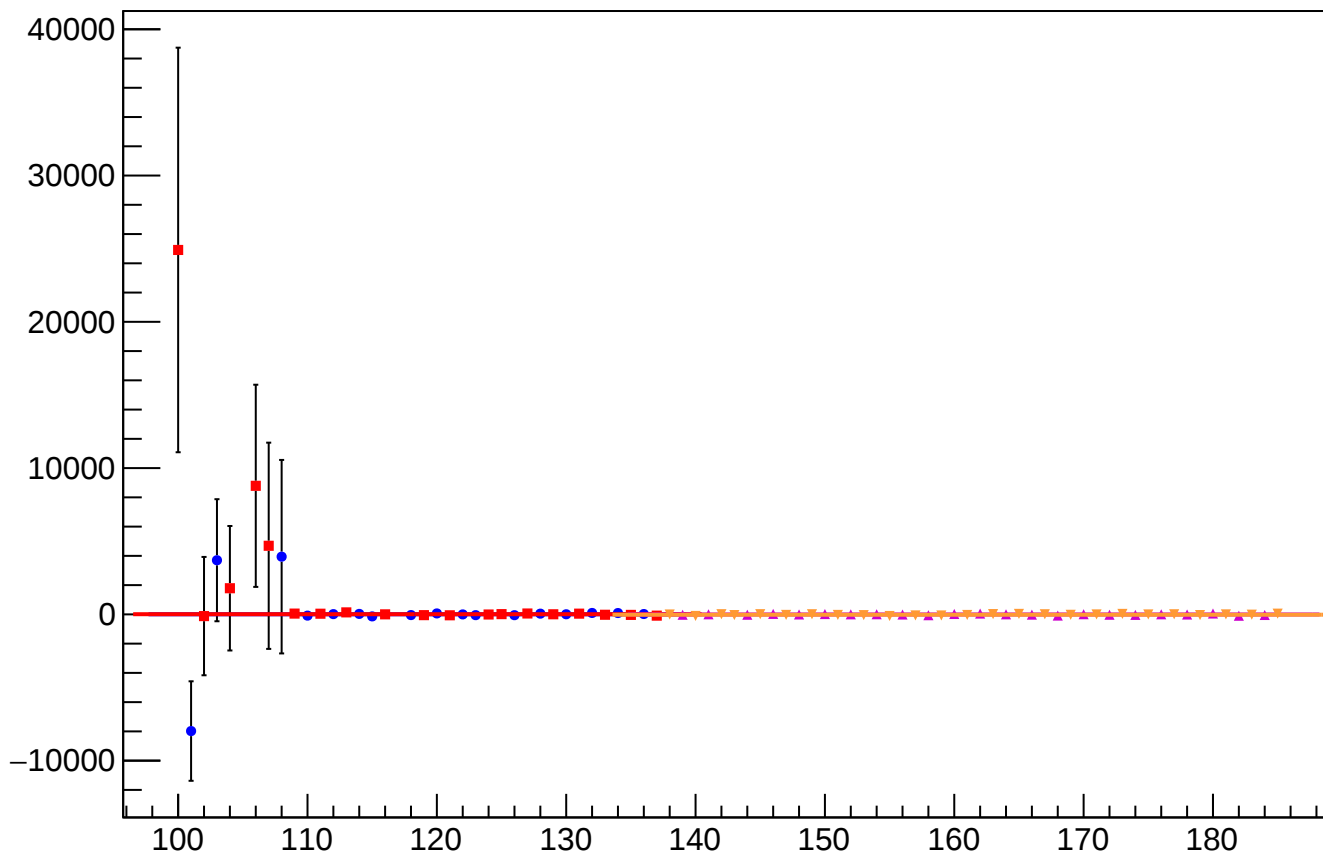
Right: 183.614 $\pm$ 0.043 χ^2 /NDF: 7743679.8/35

In: 187.504 $\pm$ 0.029 χ^2 /NDF:4930462.1/39

Out: 194.463 $\pm$ 0.030 χ^2 /NDF:6149063.4/43

All: 190.922 $\pm$ 0.021 χ^2 /NDF: 11107592.4/83

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.177+/-14.983 χ^2/NDF : 20.1/16

Left Out: -23.443+/-8.094 χ^2/NDF : 23.9/24

Right Out: 11.632+/-14.990 χ^2/NDF : 21.2/18

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -14.945+/-5.808 χ^2/NDF : 47.1/47

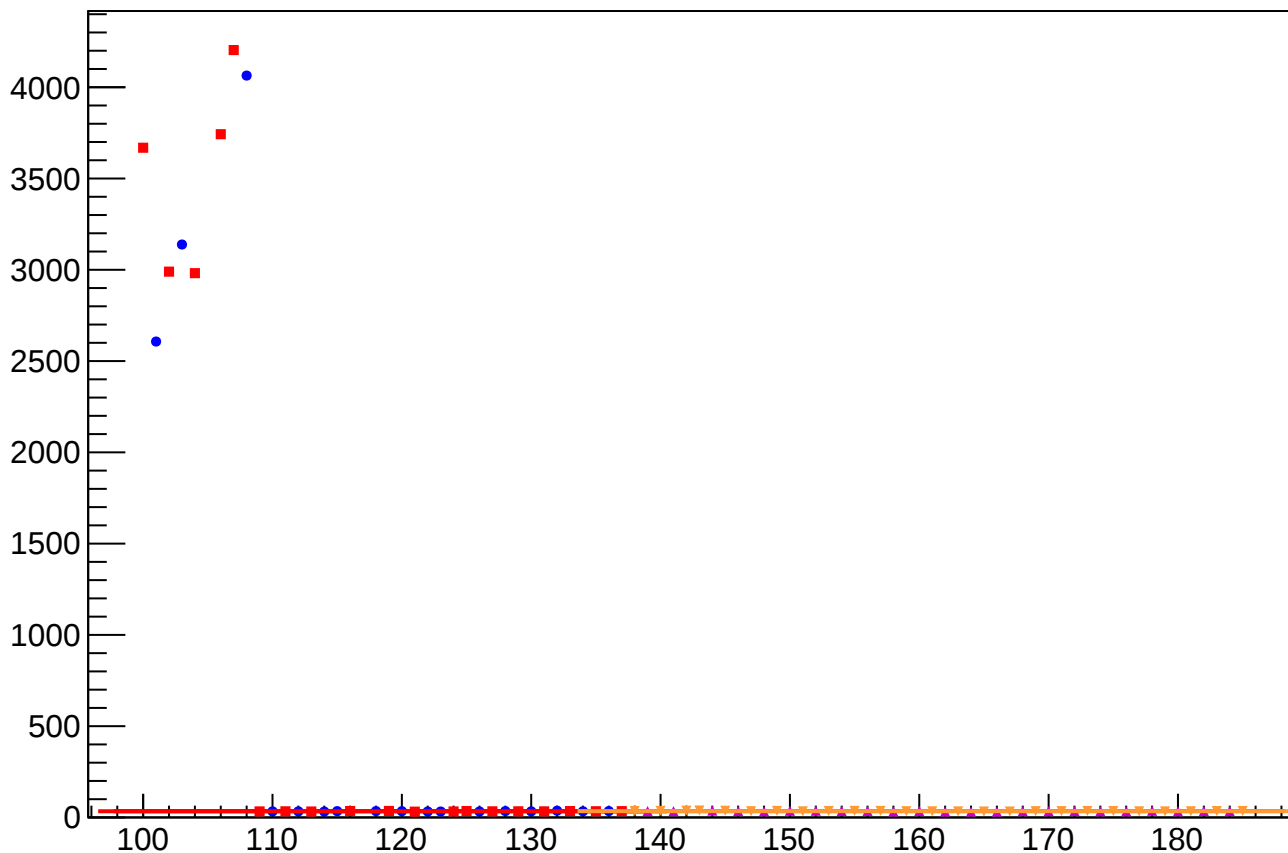
Right: 8.903+/-10.597 χ^2/NDF : 41.4/35

In: -3.061+/-7.287 χ^2/NDF : 41.6/39

Out: -15.525+/-7.122 χ^2/NDF : 49.3/43

All: -9.436+/-5.093 χ^2/NDF : 92.4/83

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.169 $\pm$ 0.011 χ^2 /NDF: 3006128.0/16

Left Out: 34.594 $\pm$ 0.006 χ^2 /NDF: 54306.5/24

Right Out: 33.933 $\pm$ 0.011 χ^2 /NDF: 3451992.5/18

Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.636 $\pm$ 0.004 χ^2 /NDF: 114255.7/47

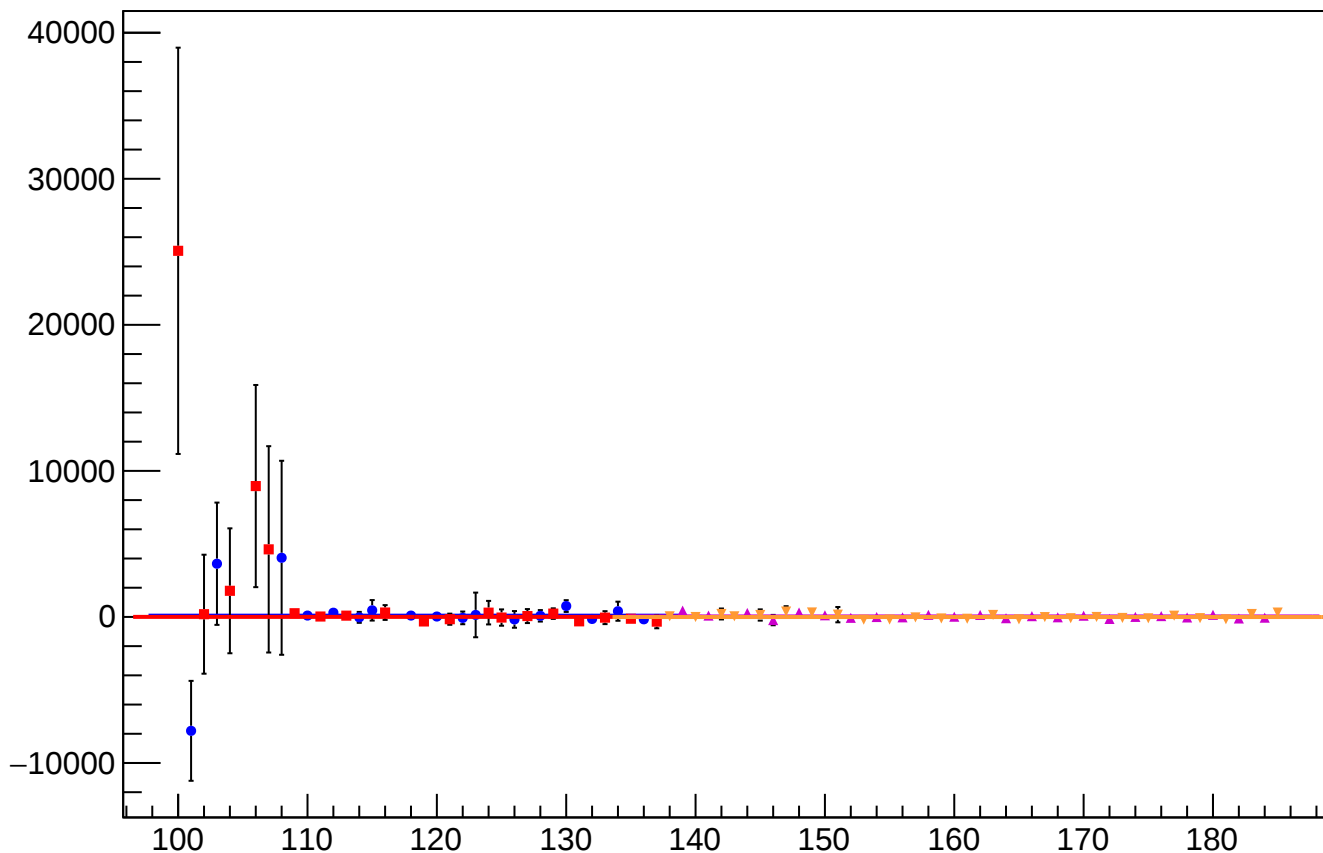
Right: 34.051 $\pm$ 0.007 χ^2 /NDF: 6458368.2/35

In: 34.560 $\pm$ 0.005 χ^2 /NDF: 3067753.7/39

Out: 34.444 $\pm$ 0.005 χ^2 /NDF: 3509309.7/43

All: 34.501 $\pm$ 0.004 χ^2 /NDF: 6577322.2/83

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: -6.414 $\pm$ 48.742 χ^2 /NDF:8.8/24

Right Out: 3.827 $\pm$ 81.231 χ^2 /NDF: 11.1/18

Left In: 34.977 $\pm$ 46.421 χ^2 /NDF:7.1/22

Left: 15.291 $\pm$ 33.615 χ^2 /NDF: 16.3/47

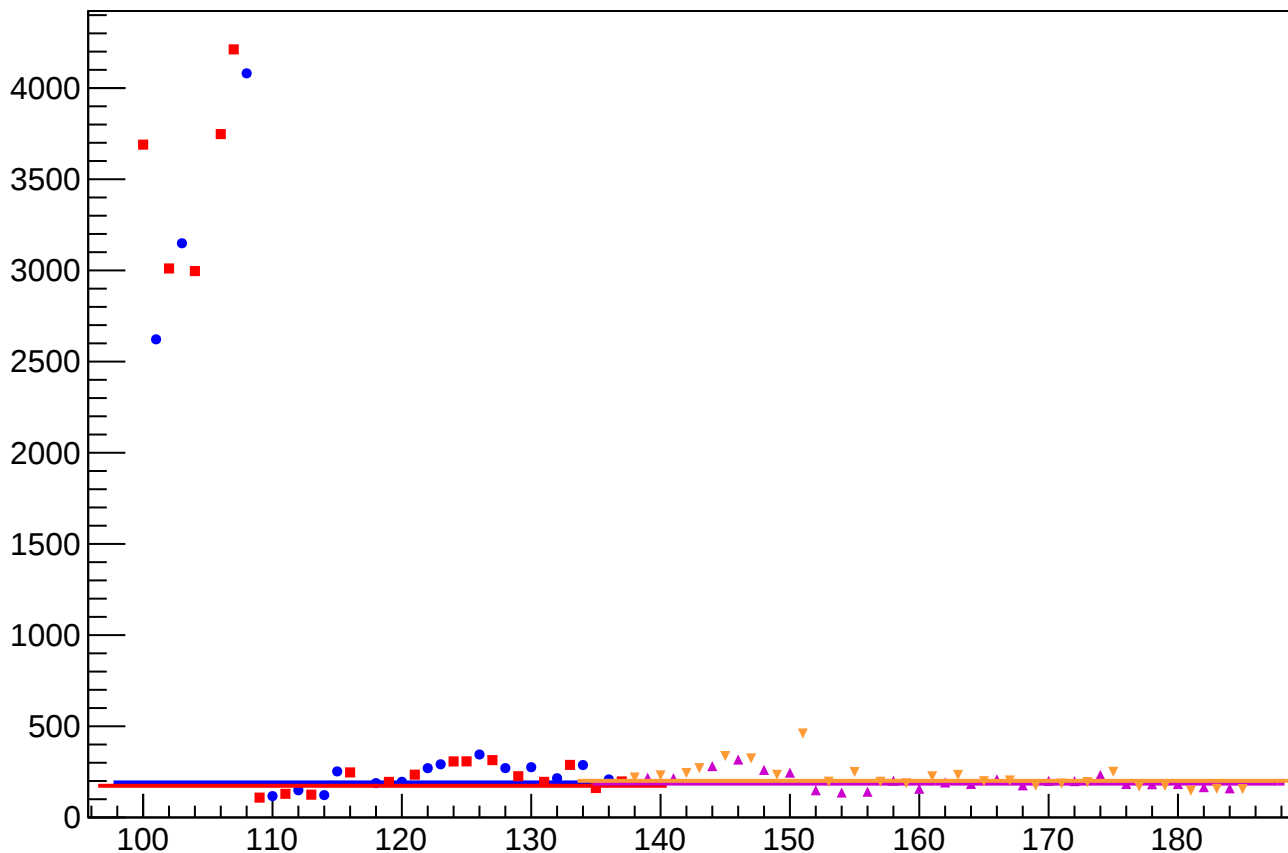
Right: 41.847 $\pm$ 59.764 χ^2 /NDF: 24.1/35

In: 46.191 $\pm$ 41.083 χ^2 /NDF:19.9/39

Out: -3.702 $\pm$ 41.795 χ^2 /NDF:19.9/43

All: 21.673 $\pm$ 29.298 χ^2 /NDF: 40.5/83

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: 201.000 $\pm$ 0.034 χ^2 /NDF:1833291.0/24

Right Out: 173.728 $\pm$ 0.057 χ^2 /NDF: 4205626.6/18

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 192.939 $\pm$ 0.024 χ^2 /NDF: 3309021.4/47

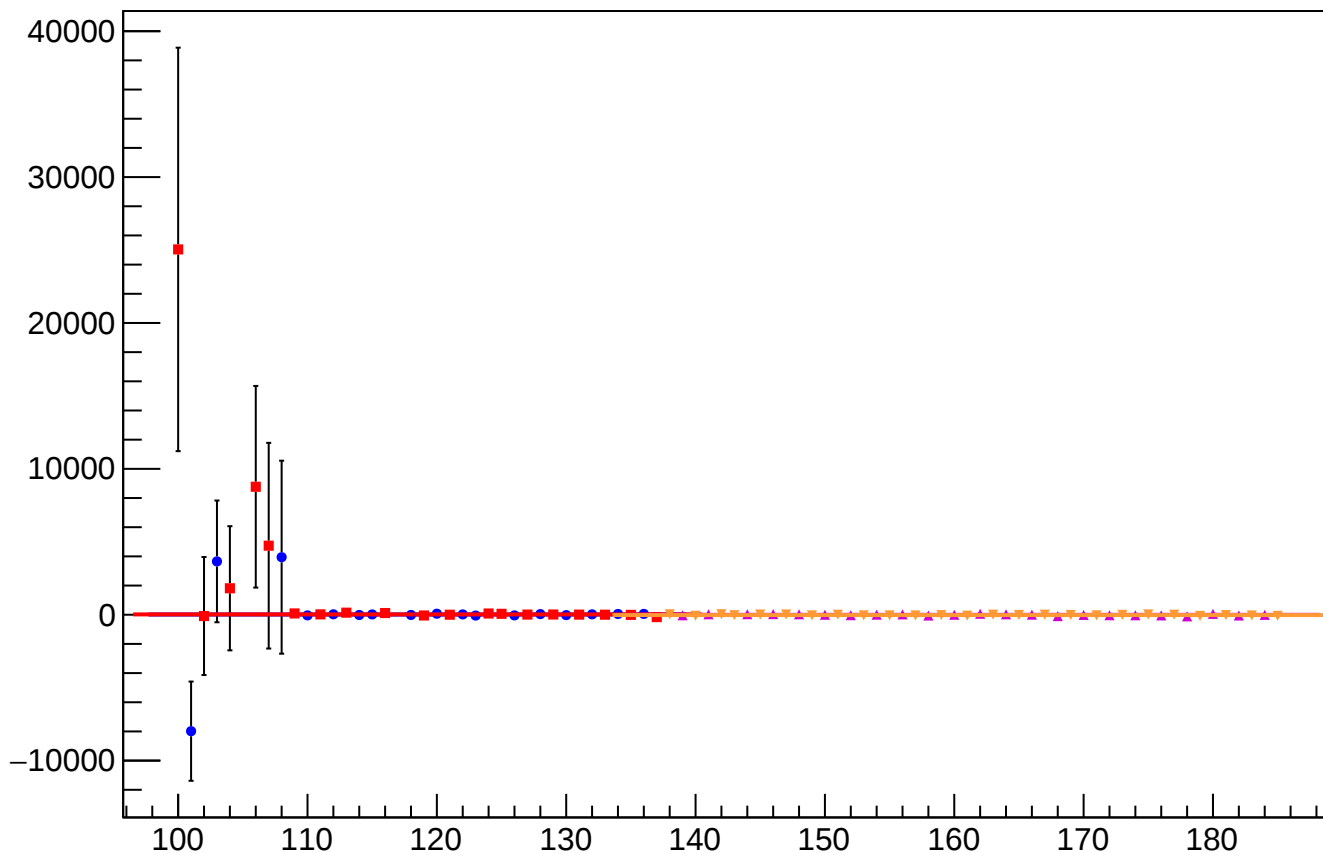
Right: 182.163 $\pm$ 0.042 χ^2 /NDF: 7827959.7/35

In: 187.034 $\pm$ 0.029 χ^2 /NDF:4955197.9/39

Out: 193.780 $\pm$ 0.030 χ^2 /NDF:6204675.9/43

All: 190.349 $\pm$ 0.021 χ^2 /NDF: 11186372.7/83

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: -23.016+/-7.367 χ^2/NDF :18.2/24

Right Out: 22.859+/-13.697 χ^2/NDF : 27.3/18

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -14.934+/-5.282 χ^2/NDF : 59.4/47

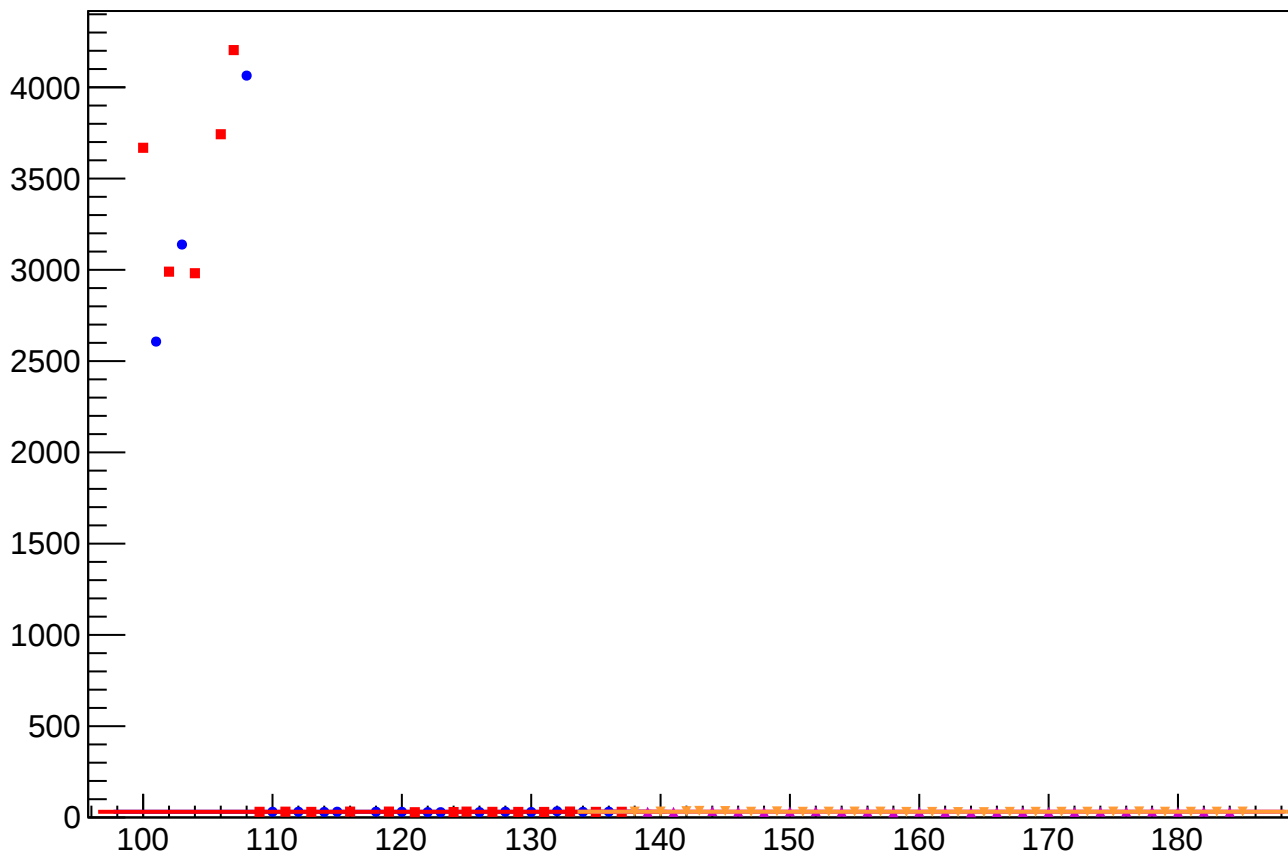
Right: 18.531+/-9.673 χ^2/NDF : 42.3/35

In: -1.538+/-6.626 χ^2/NDF :55.2/39

Out: -12.722+/-6.488 χ^2/NDF :54.3/43

All: -7.247+/-4.636 χ^2/NDF : 111.0/83

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: 31.465+/-0.005 χ^2/NDF : 77045.9/24

Right Out: 30.985+/-0.010 χ^2/NDF : 3458900.0/18

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.470+/-0.004 χ^2/NDF : 164845.4/47

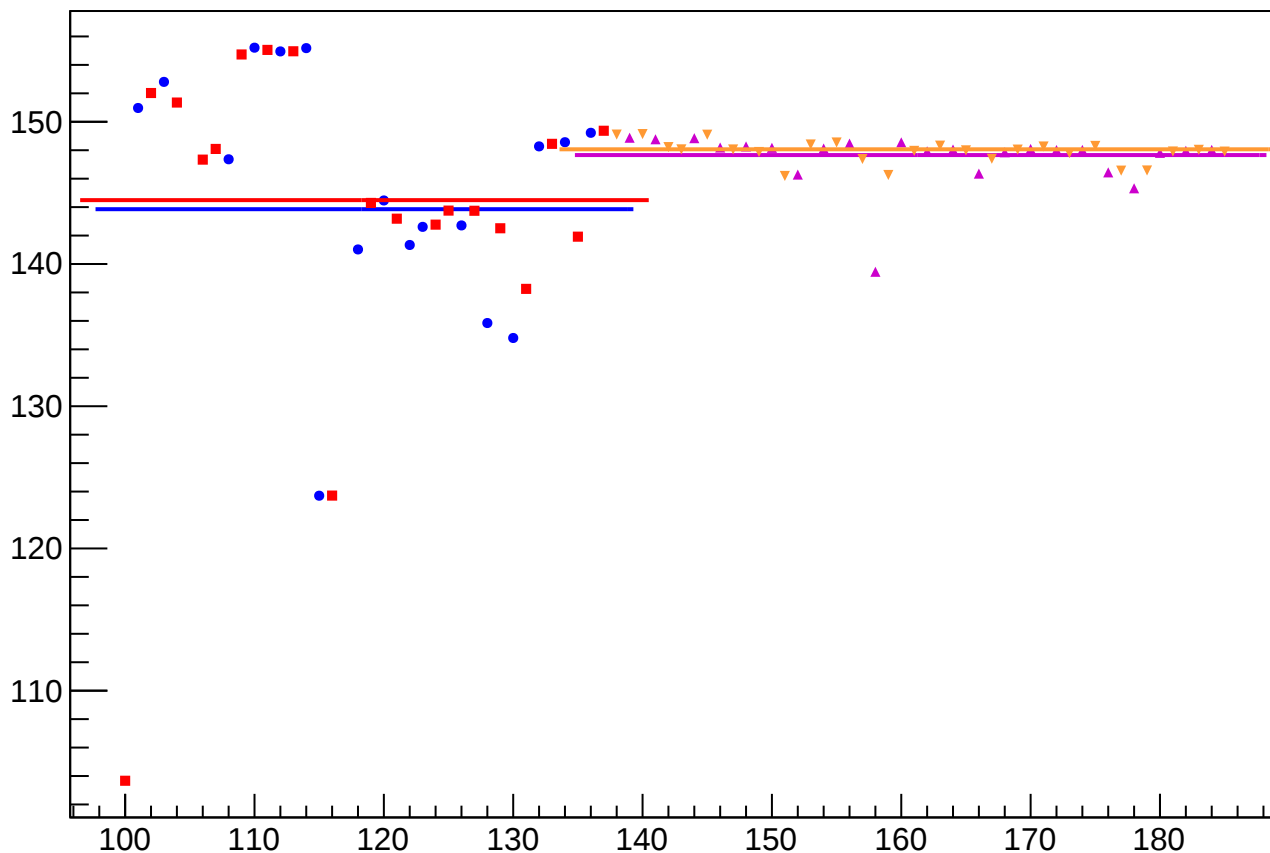
Right: 31.071+/-0.007 χ^2/NDF : 6473226.1/35

In: 31.401+/-0.005 χ^2/NDF : 3102791.5/39

Out: 31.357+/-0.005 χ^2/NDF : 3537850.4/43

All: 31.378+/-0.003 χ^2/NDF : 6640685.8/83

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.854+/-0.000 χ^2/NDF : 3448306444.5/16

Left Out: 148.065+/-0.000 χ^2/NDF : 65591552.4/24

Right Out: 144.491+/-0.000 χ^2/NDF : 4184461794.3/18

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.869+/-0.000 χ^2/NDF : 416743076.4/47

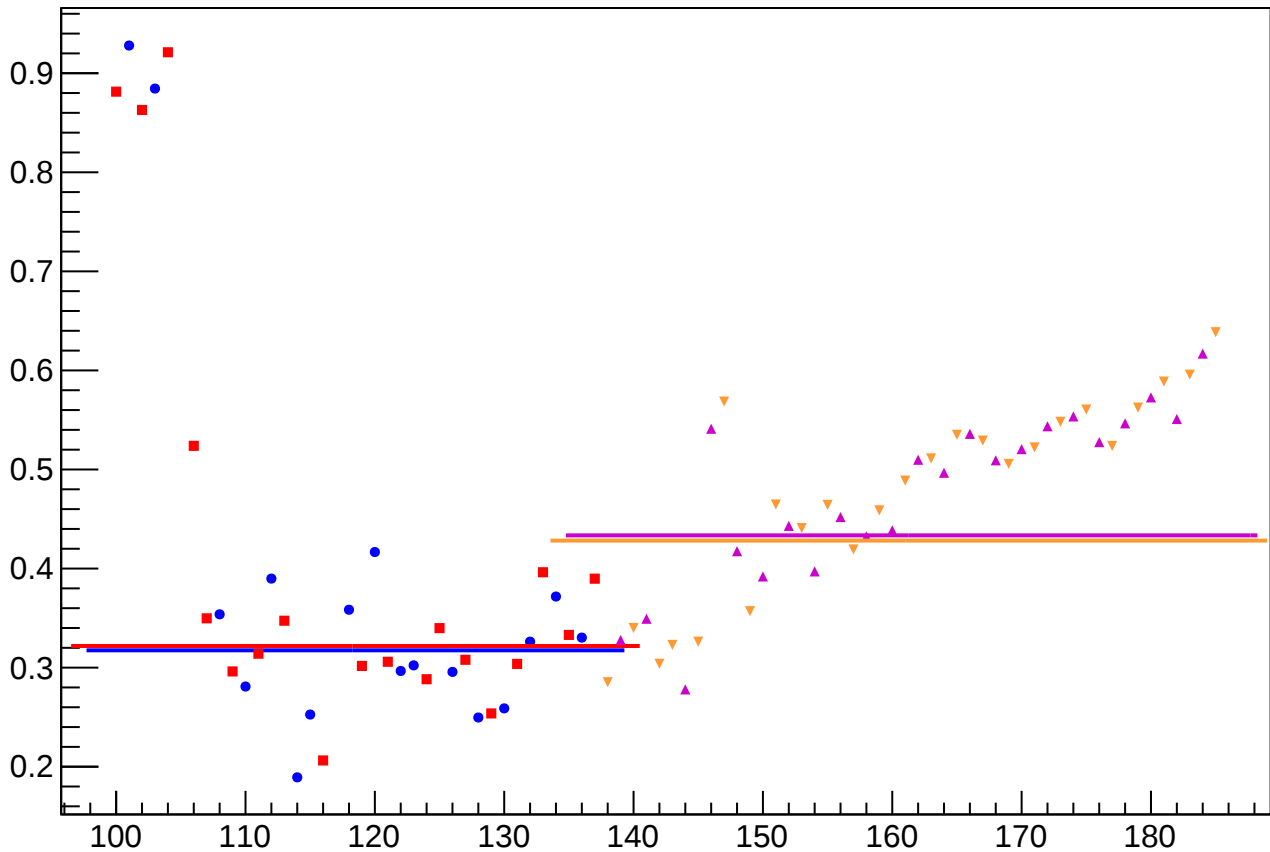
Right: 144.176+/-0.000 χ^2/NDF : 7644095101.6/35

In: 146.170+/-0.000 χ^2/NDF : 4279328275.3/39

Out: 146.704+/-0.000 χ^2/NDF : 4696324109.6/43

All: 146.443+/-0.000 χ^2/NDF : 8996267388.6

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:1881164.3/24

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1215219.2/18

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.431 $\pm$ 0.000 χ^2 /NDF: 3362990.5/47

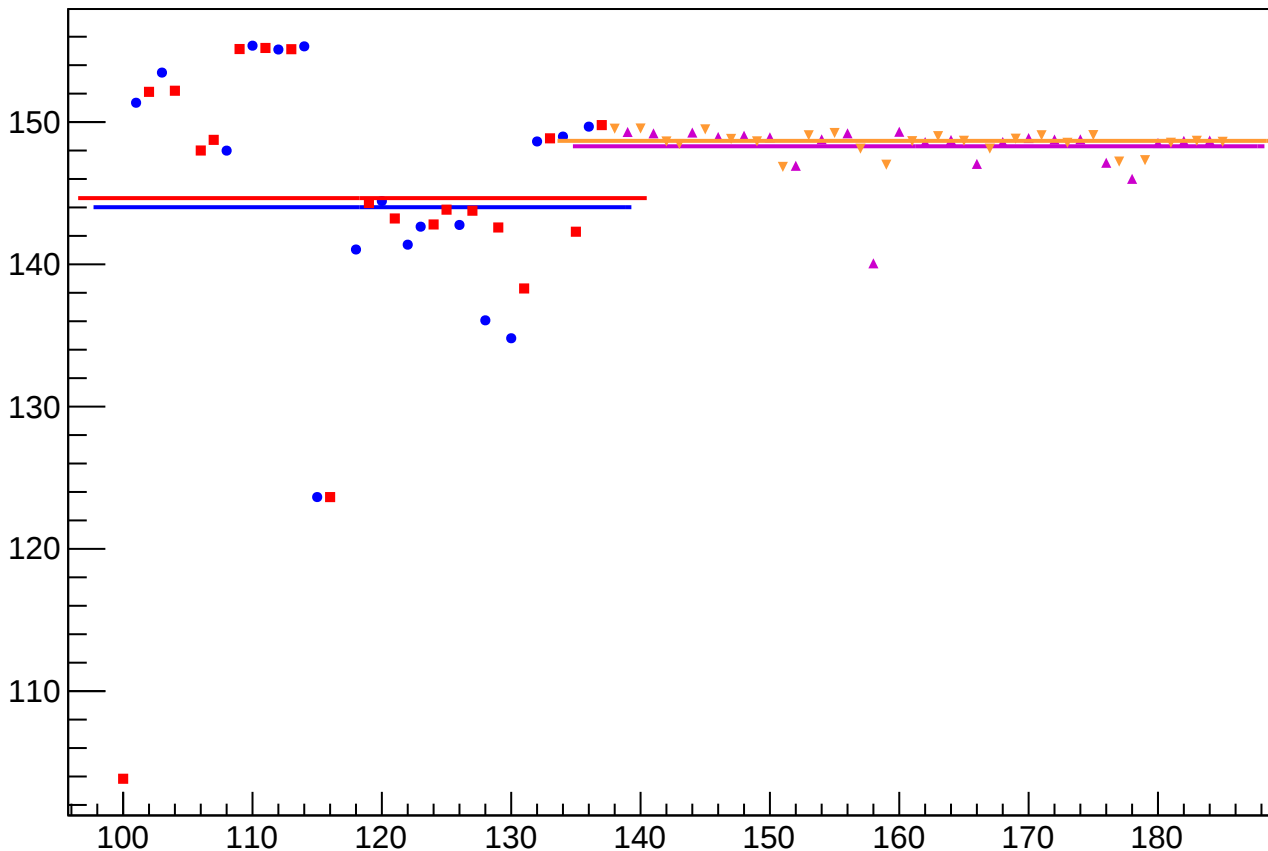
Right: 0.320 $\pm$ 0.000 χ^2 /NDF: 2489538.1/35

In: 0.388 $\pm$ 0.000 χ^2 /NDF:3658039.1/39

Out: 0.388 $\pm$ 0.000 χ^2 /NDF:3887214.3/43

All: 0.388 $\pm$ 0.000 χ^2 /NDF: 7545270.0/83

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.016 $\pm$ 0.000 χ^2 /NDF: 3492221319.5/16

Left Out: 148.680 $\pm$ 0.000 χ^2 /NDF: 52516951.4/24

Right Out: 144.655 $\pm$ 0.000 χ^2 /NDF: 4208783732.4/18

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.495 $\pm$ 0.000 χ^2 /NDF: 391375989.7/47

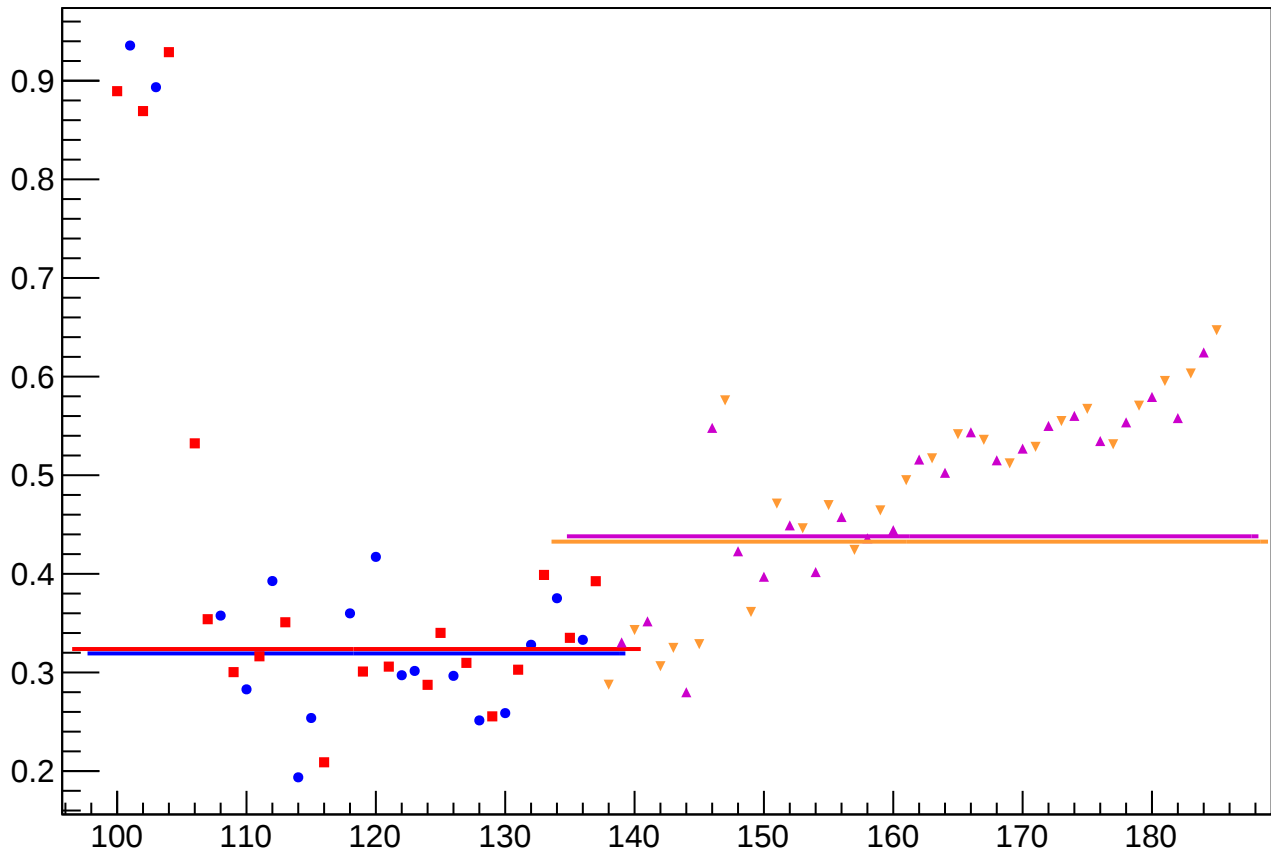
Right: 144.339 $\pm$ 0.000 χ^2 /NDF: 7712254878.2/35

In: 146.611 $\pm$ 0.000 χ^2 /NDF: 4431587247.2/39

Out: 147.138 $\pm$ 0.000 χ^2 /NDF: 4818478287.8/43

All: 146.881 $\pm$ 0.000 χ^2 /NDF: 9269799041.8

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1274809.7/16

Left Out: 0.433+/-0.000 χ^2/NDF :1912959.7/24

Right Out: 0.324+/-0.000 χ^2/NDF : 1217547.6/18

Left In: 0.438+/-0.000 χ^2/NDF :1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3420120.4/47

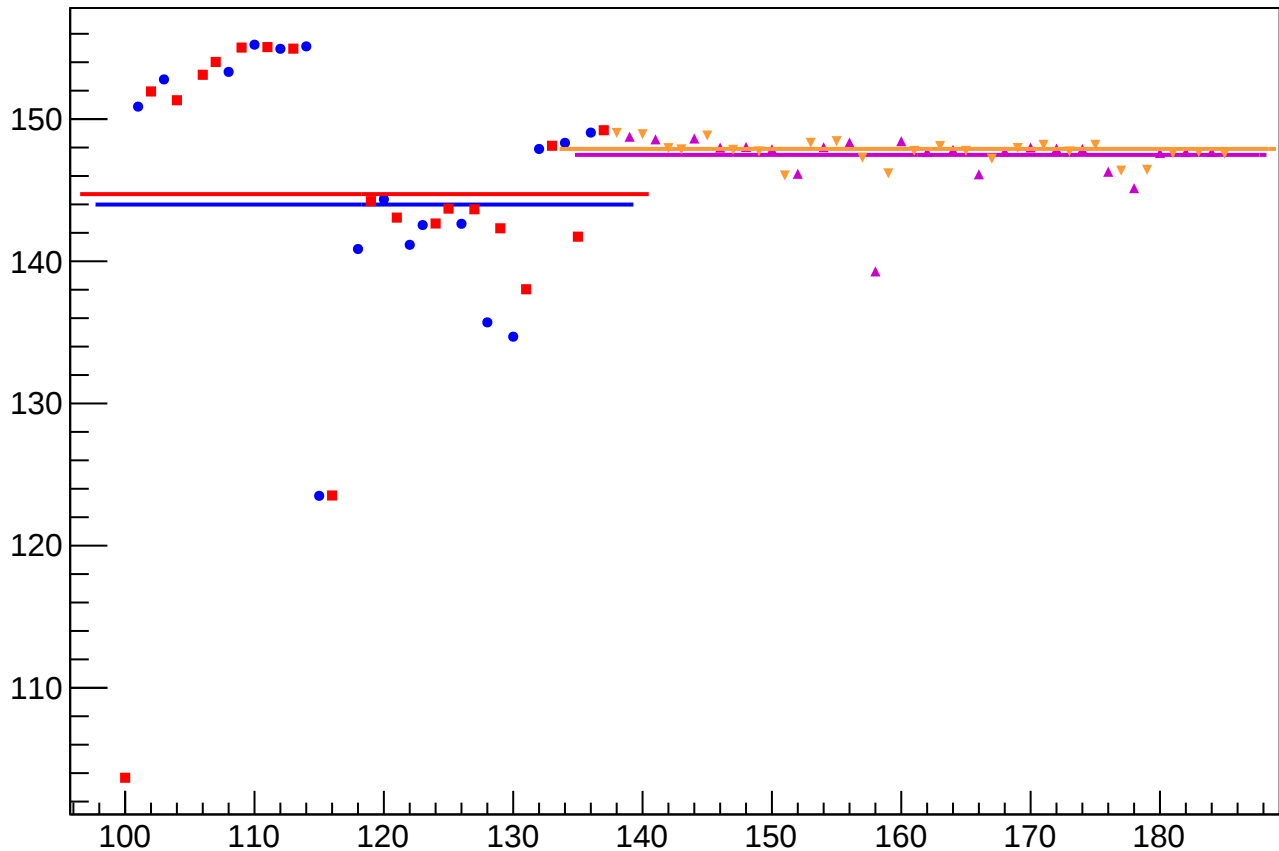
Right: 0.322+/-0.000 χ^2/NDF : 2493460.6/35

In: 0.391+/-0.000 χ^2/NDF :3713141.1/39

Out: 0.391+/-0.000 χ^2/NDF :3946137.8/43

All: 0.391+/-0.000 χ^2/NDF : 7659292.7/83

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.990 $\pm$ 0.000 χ^2 /NDF: 3661758828.8/16

Left Out: 147.903 $\pm$ 0.000 χ^2 /NDF: 64426546.1/24

Right Out: 144.724 $\pm$ 0.000 χ^2 /NDF: 4474261871.8/18

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.700 $\pm$ 0.000 χ^2 /NDF: 414866142.4/47

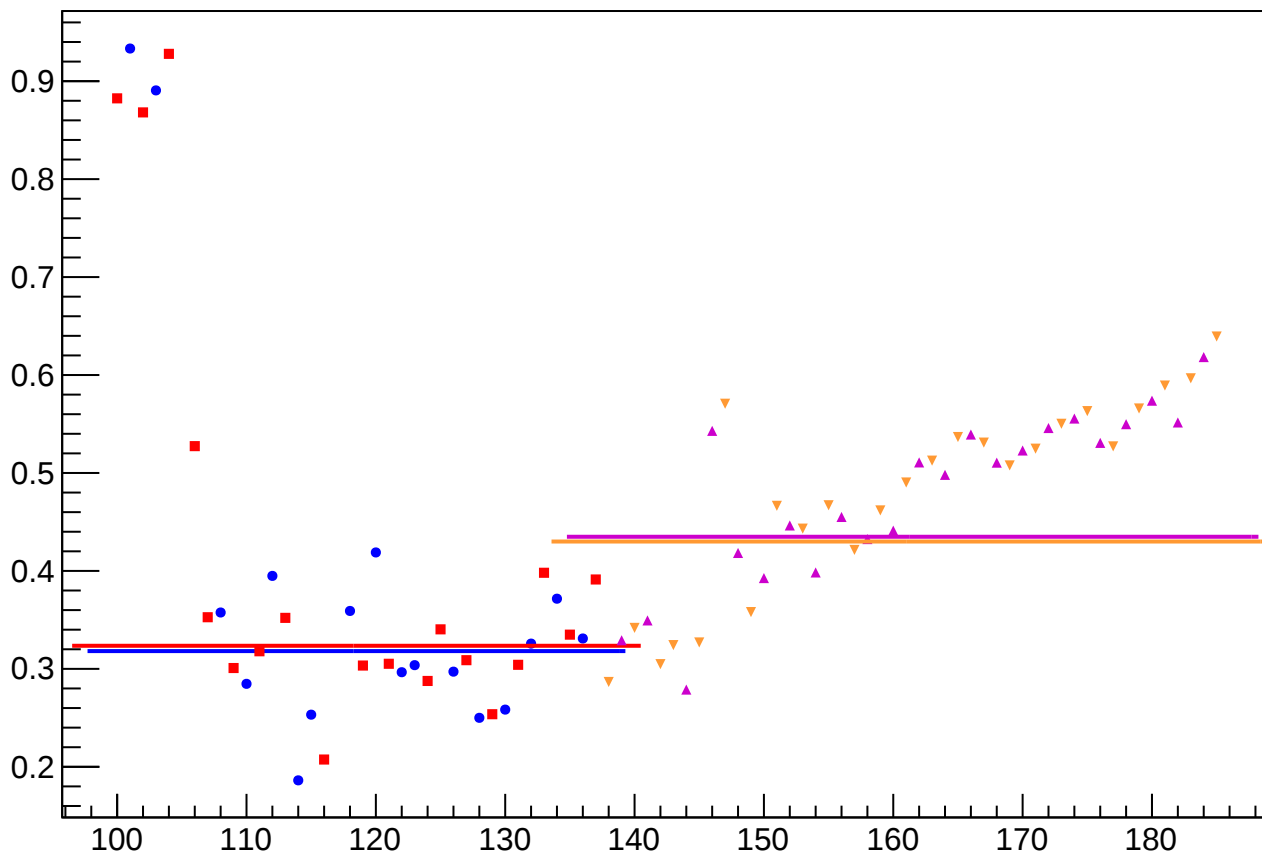
Right: 144.360 $\pm$ 0.000 χ^2 /NDF: 8150942060.9/35

In: 146.115 $\pm$ 0.000 χ^2 /NDF: 4412250956.8/39

Out: 146.695 $\pm$ 0.000 χ^2 /NDF: 4888393437.8/43

All: 146.411 $\pm$ 0.000 χ^2 /NDF: 9324725803.3

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.318 $\pm$ 0.000 χ^2 /NDF: 1287972.7/16

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1880651.6/24

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1220104.3/18

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3368651.2/47

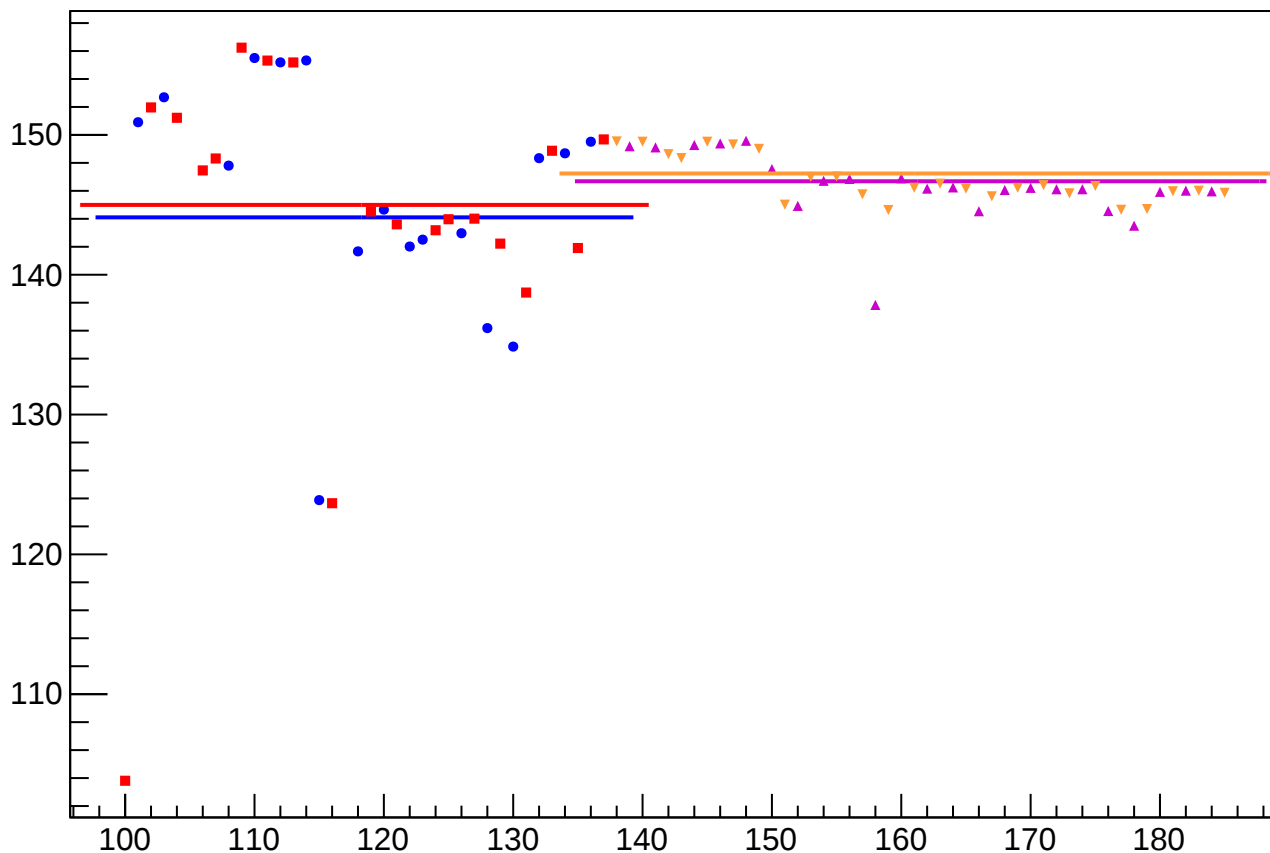
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2509712.1/35

In: 0.389 $\pm$ 0.000 χ^2 /NDF:3684507.2/39

Out: 0.390 $\pm$ 0.000 χ^2 /NDF:3884554.7/43

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7569083.5/83

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.104 $\pm$ 0.000 χ^2 /NDF: 3160280337.5/16

Left Out: 147.241 $\pm$ 0.000 χ^2 /NDF: 259615221.8/24

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3854490205.5/18

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.972 $\pm$ 0.000 χ^2 /NDF: 827468504.7/47

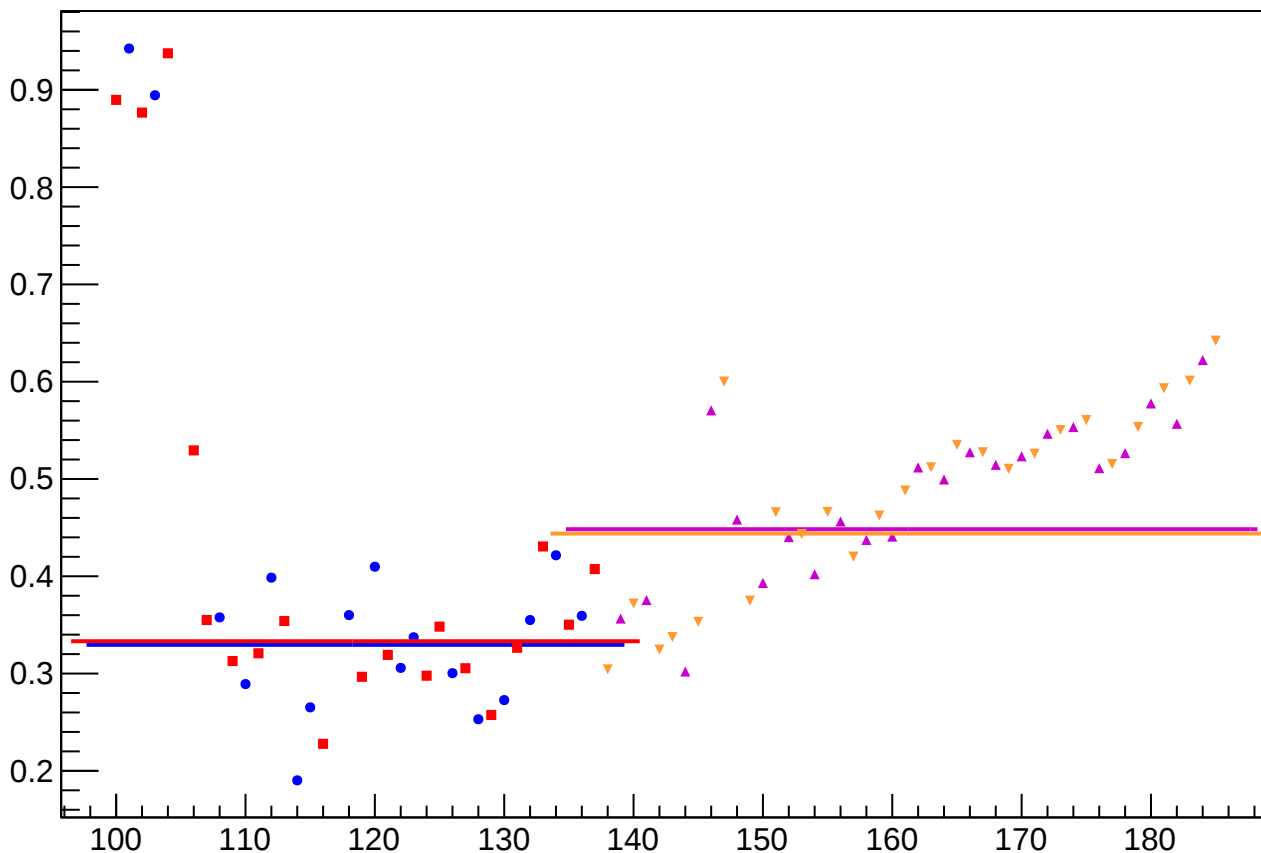
Right: 144.556 $\pm$ 0.000 χ^2 /NDF: 7035324027.3/35

In: 145.687 $\pm$ 0.000 χ^2 /NDF: 3923928402.4/39

Out: 146.390 $\pm$ 0.000 χ^2 /NDF: 4278930050.5/43

All: 146.047 $\pm$ 0.000 χ^2 /NDF: 8236280308.5

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2/NDF : 1270354.0/16

Left Out: 0.444 $\pm$ 0.000 χ^2/NDF : 1475145.3/24

Right Out: 0.333 $\pm$ 0.000 χ^2/NDF : 1179001.1/18

Left In: 0.448 $\pm$ 0.000 χ^2/NDF : 1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2/NDF : 2597083.6/47

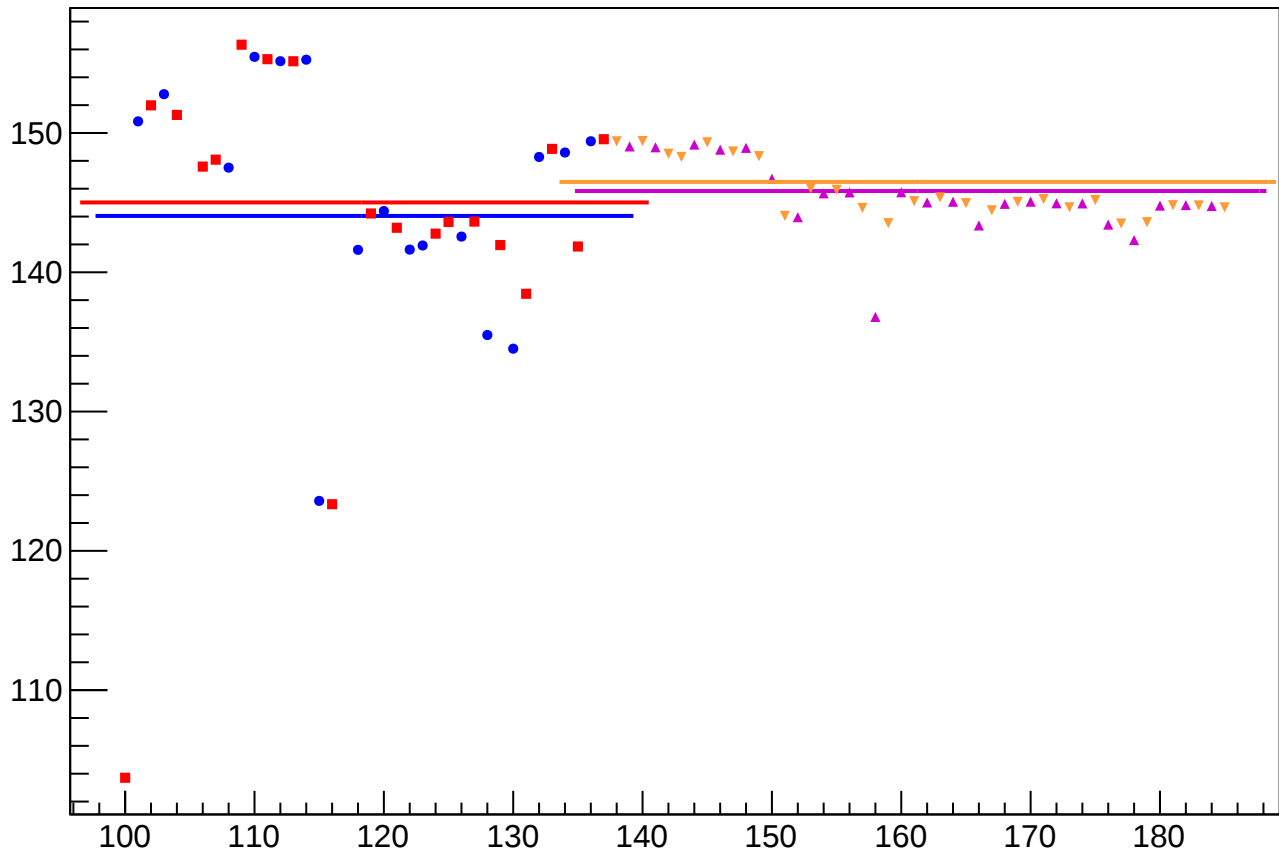
Right: 0.331 $\pm$ 0.000 χ^2/NDF : 2450053.6/35

In: 0.402 $\pm$ 0.000 χ^2/NDF : 3275350.0/39

Out: 0.402 $\pm$ 0.000 χ^2/NDF : 3454091.2/43

All: 0.402 $\pm$ 0.000 χ^2/NDF : 6729473.2/83

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.046 $\pm$ 0.000 χ^2 /NDF: 3279467915.9/16

Left Out: 146.488 $\pm$ 0.000 χ^2 /NDF: 397071689.9/24

Right Out: 145.013 $\pm$ 0.000 χ^2 /NDF: 3930693089.2/18

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.172 $\pm$ 0.000 χ^2 /NDF: 1105020111.6/47

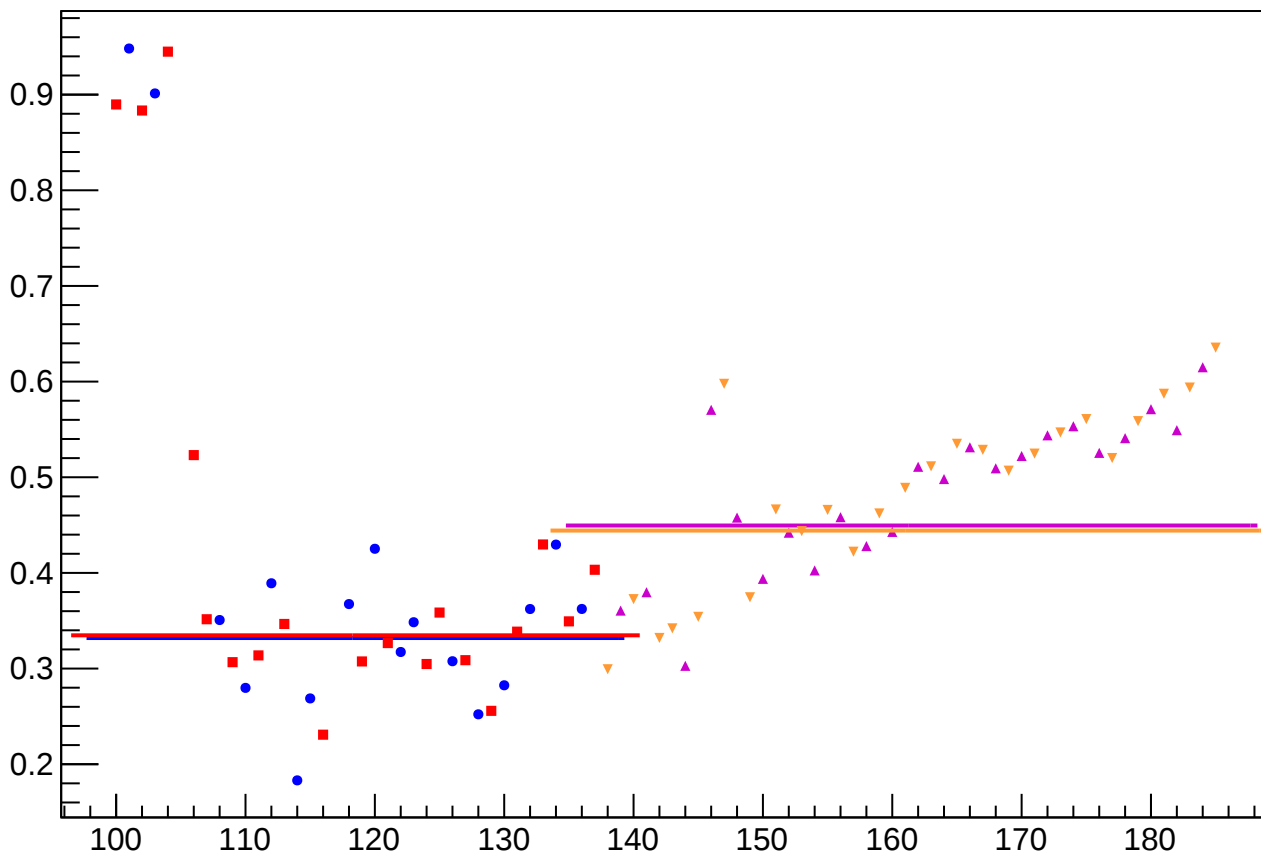
Right: 144.538 $\pm$ 0.000 χ^2 /NDF: 7234057528.4/35

In: 145.149 $\pm$ 0.000 χ^2 /NDF: 4068575284.1/39

Out: 145.932 $\pm$ 0.000 χ^2 /NDF: 4398241395.1/43

All: 145.551 $\pm$ 0.000 χ^2 /NDF: 8508074680.5

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:1456229.0/24

Right Out: 0.335 $\pm$ 0.000 χ^2 /NDF: 1168458.2/18

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2551315.3/47

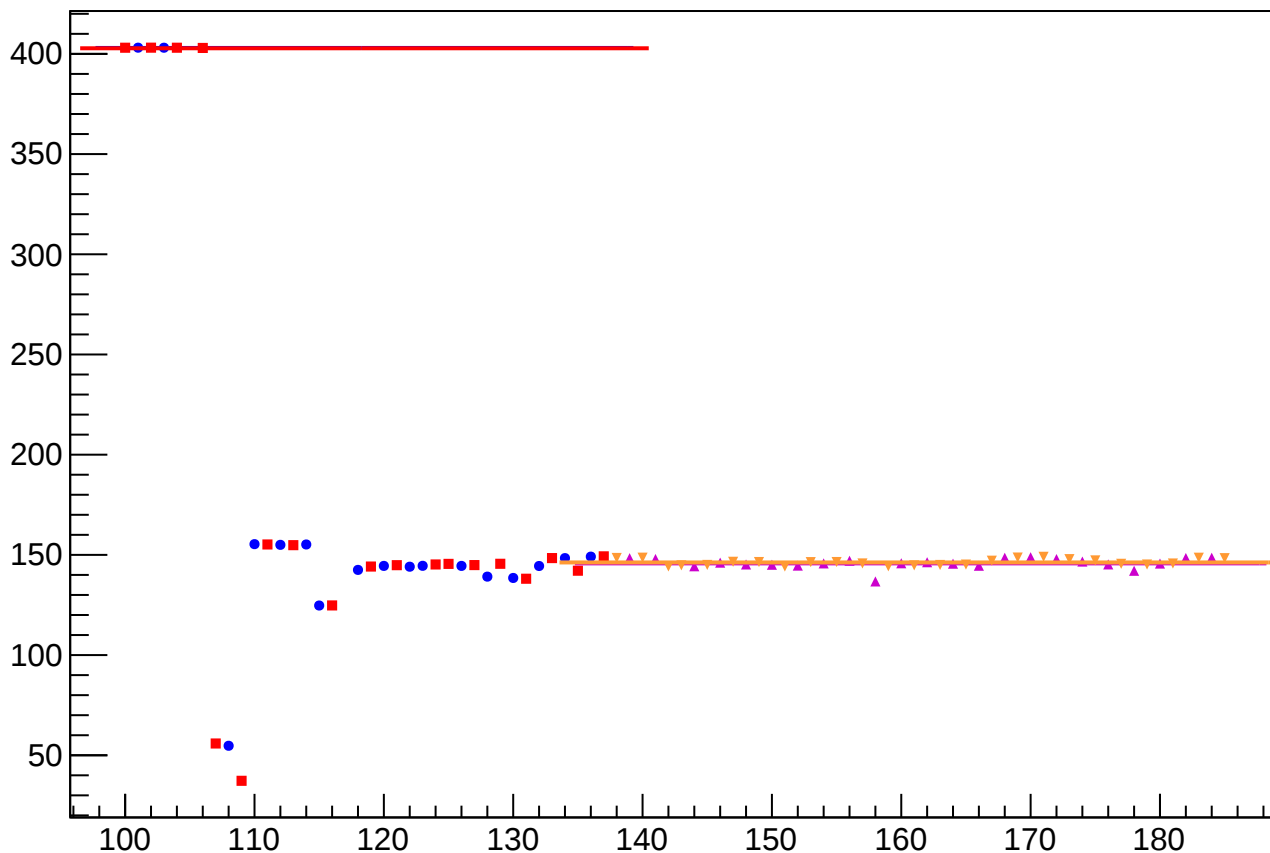
Right: 0.333 $\pm$ 0.000 χ^2 /NDF: 2456747.1/35

In: 0.404 $\pm$ 0.000 χ^2 /NDF:3235970.1/39

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:3401980.0/43

All: 0.404 $\pm$ 0.000 χ^2 /NDF: 6638224.5/83

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000

χ^2/NDF : 1097981079296.6/16

Left: 145.991+/-0.000

χ^2/NDF : 295428976.8/47

Left Out: 146.224+/-0.000

χ^2/NDF : 85347070.5/24

Right: 402.873+/-0.000

χ^2/NDF : 4204637713016.5/16

Right Out: 402.798+/-0.000

χ^2/NDF : 3106239706226.1/18

In: 402.666+/-0.000

χ^2/NDF : 3430247694143.9/39

Left In: 145.755+/-0.000

χ^2/NDF : 206171532.0/22

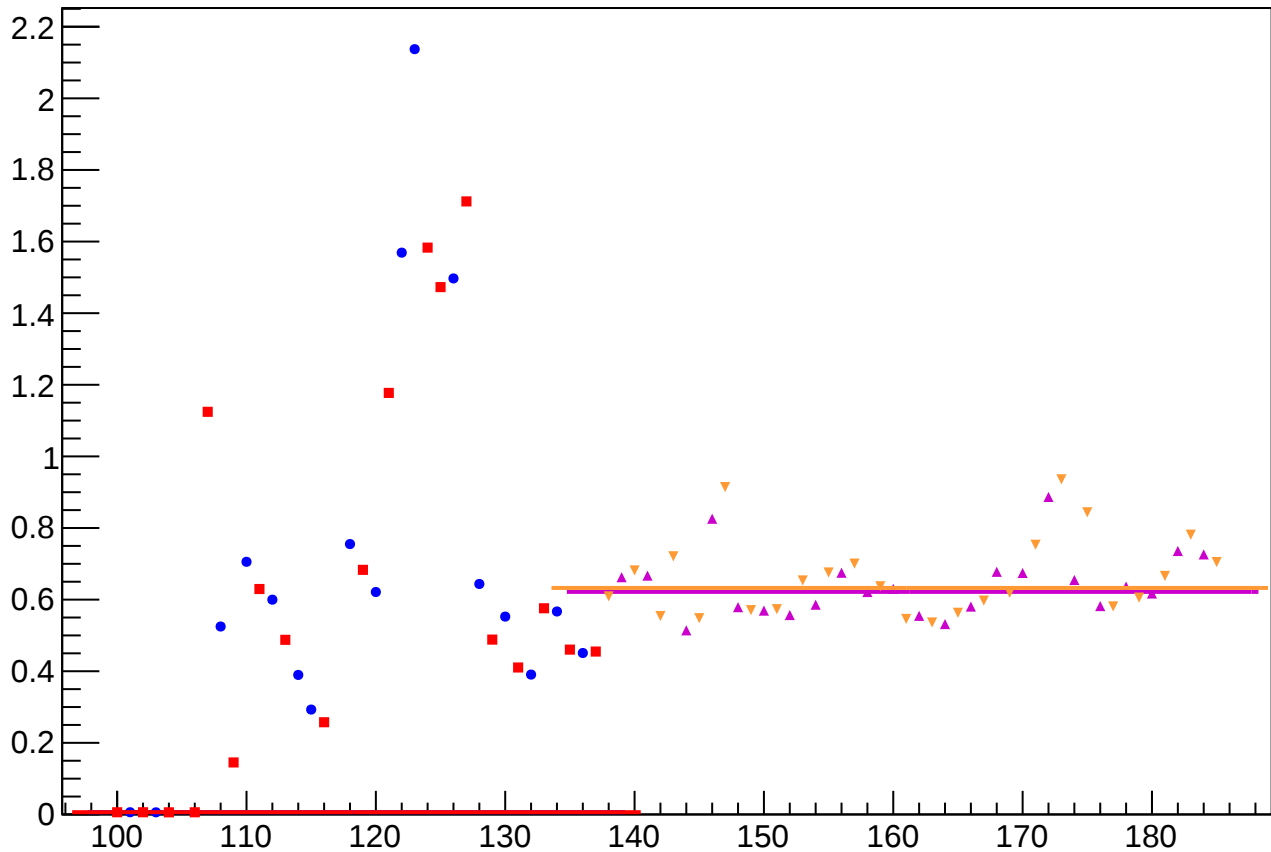
Out: 402.539+/-0.000

χ^2/NDF : 5454278610167.9/47

All: 402.599+/-0.000

χ^2/NDF : 888479427000.0/167

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 $\chi^2/\text{NDF}: 9127939.0/16$

Left Out: 0.633+/-0.000 $\chi^2/\text{NDF}: 617581.1/24$

Right Out: 0.006+/-0.000 $\chi^2/\text{NDF}: 9171738.5/18$

Left In: 0.622+/-0.000 $\chi^2/\text{NDF}: 399965.3/22$

Left: 0.627+/-0.000 $\chi^2/\text{NDF}: 1021863.8/47$

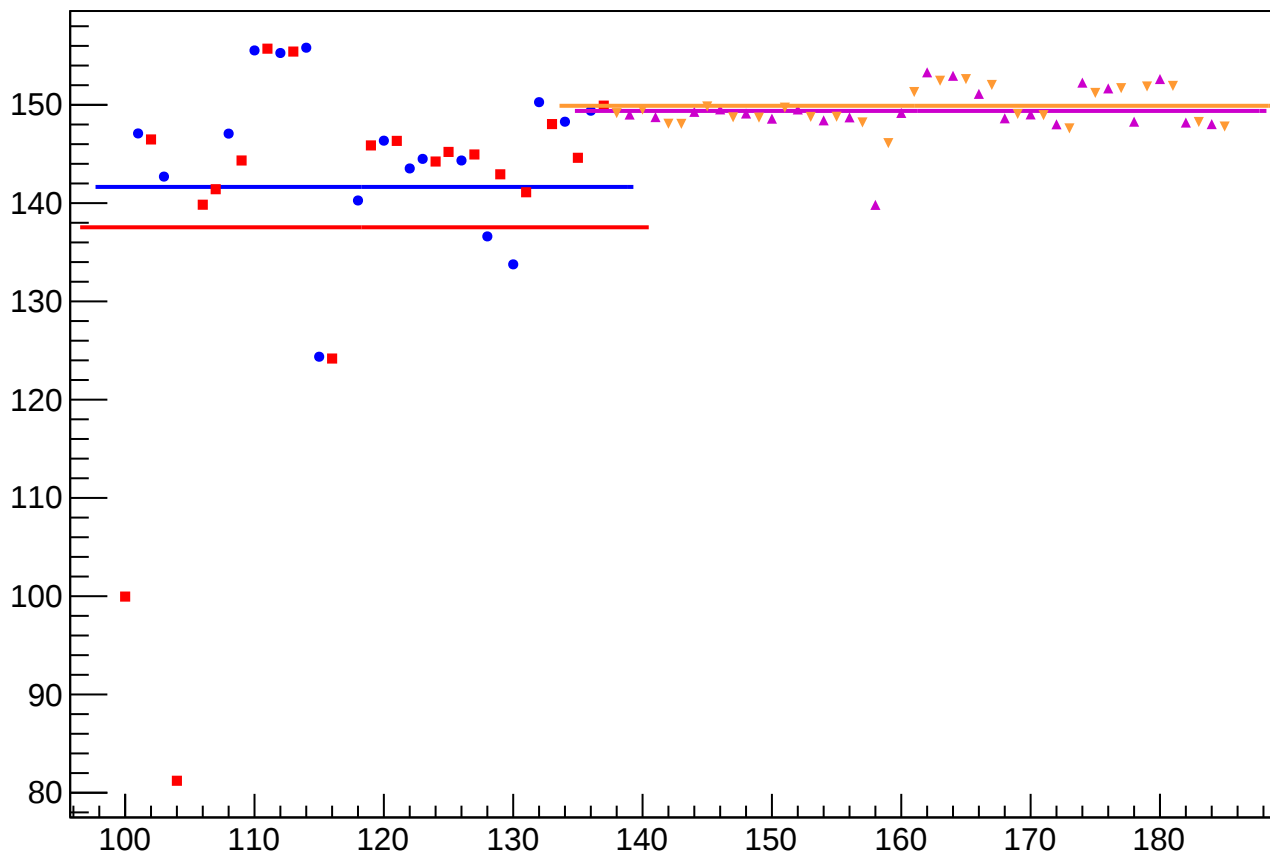
Right: 0.006+/-0.000 $\chi^2/\text{NDF}: 18299681.6/35$

In: 0.007+/-0.000 $\chi^2/\text{NDF}: 36217719.9/39$

Out: 0.007+/-0.000 $\chi^2/\text{NDF}: 37770499.7/43$

All: 0.007+/-0.000 $\chi^2/\text{NDF}: 73988400.8/83$

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.649 $\pm$ 0.000 χ^2 /NDF: 978960977.0/16

Left Out: 149.905 $\pm$ 0.000 χ^2 /NDF: 163005033.2/24

Right Out: 137.540 $\pm$ 0.000 χ^2 /NDF: 1319926808.9/18

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.652 $\pm$ 0.000 χ^2 /NDF: 604344431.5/47

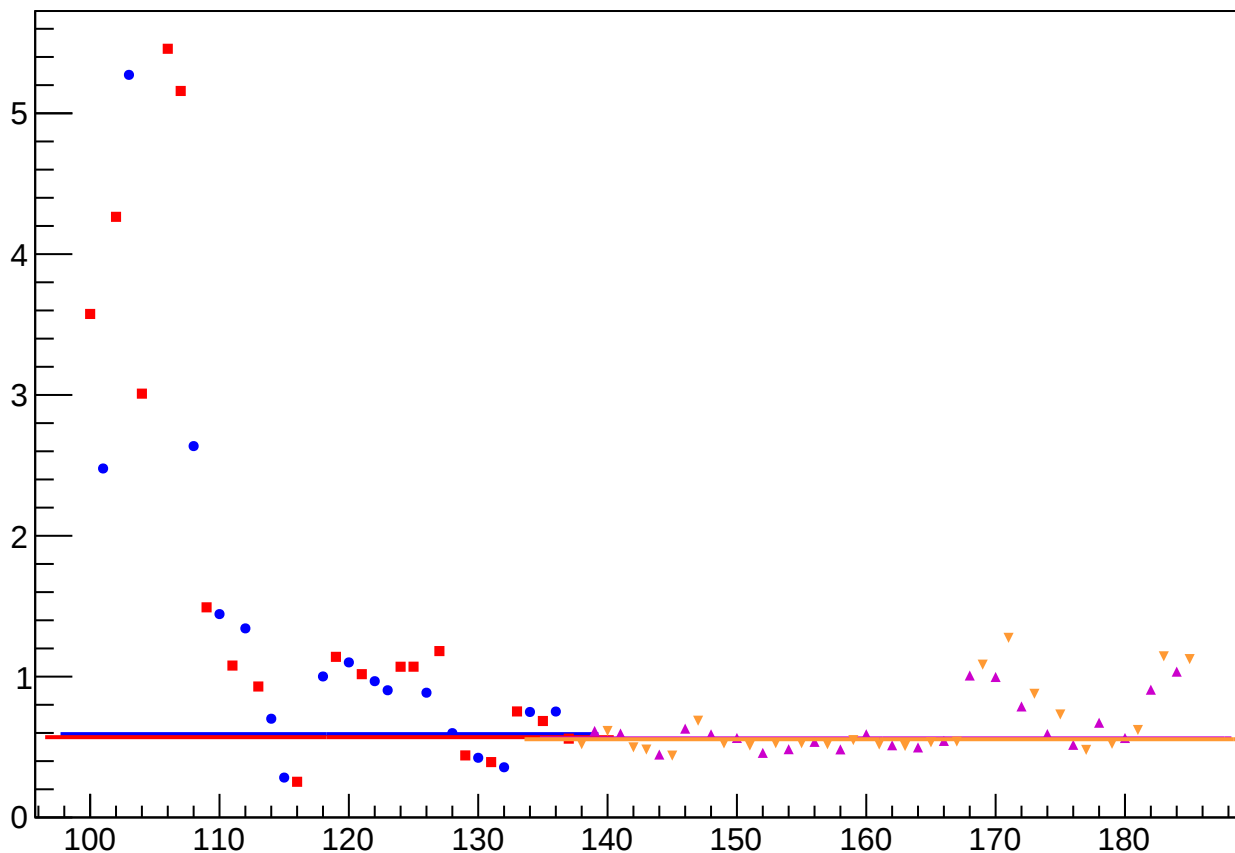
Right: 139.554 $\pm$ 0.000 χ^2 /NDF: 2385756401.6/35

In: 148.021 $\pm$ 0.000 χ^2 /NDF: 1911161711.4/39

Out: 147.774 $\pm$ 0.000 χ^2 /NDF: 2811399887.6/43

All: 147.894 $\pm$ 0.000 χ^2 /NDF: 4724366711.6

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:1778015.2/24

Right Out: 0.570 $\pm$ 0.000 χ^2 /NDF: 4645113.2/18

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.558 $\pm$ 0.000 χ^2 /NDF: 3085567.0/47

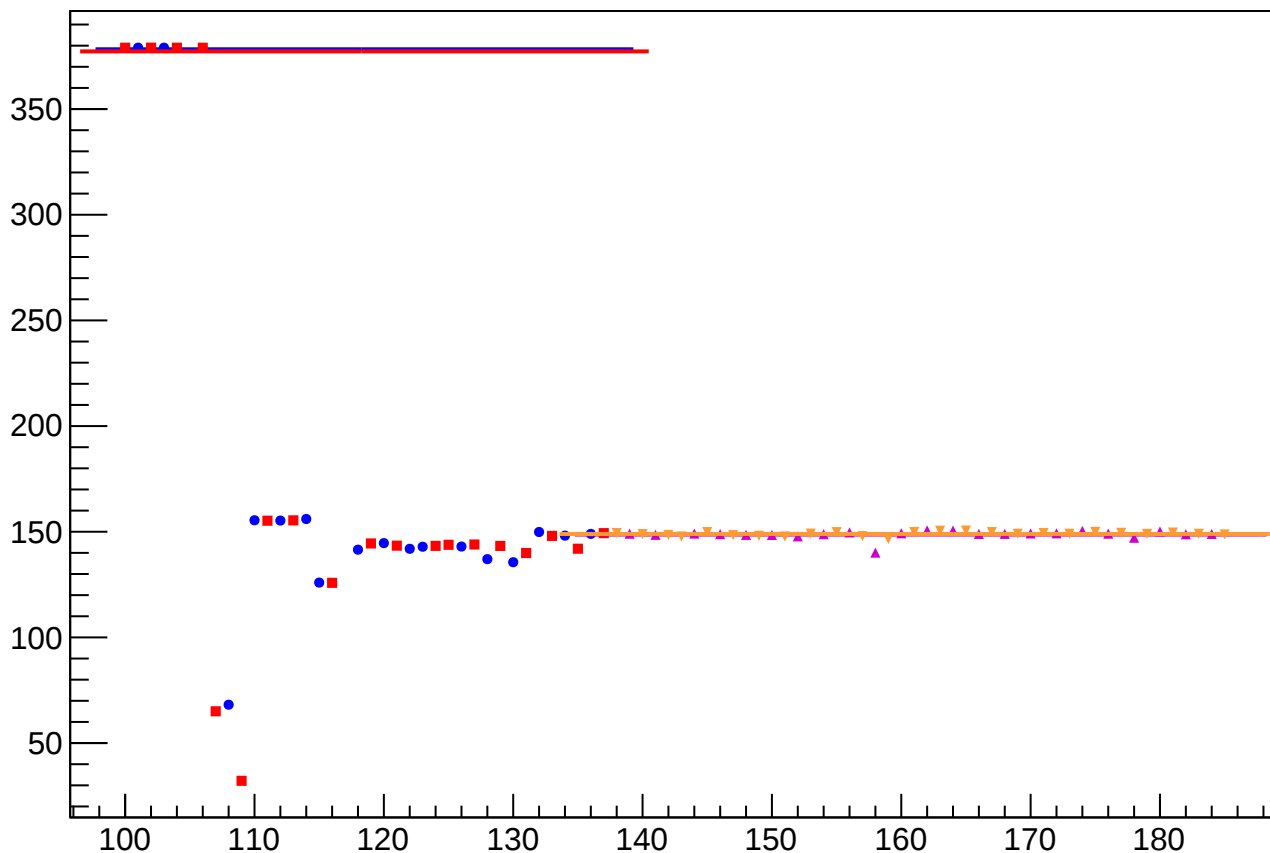
Right: 0.581 $\pm$ 0.000 χ^2 /NDF: 8168630.3/35

In: 0.567 $\pm$ 0.000 χ^2 /NDF:4839167.9/39

Out: 0.558 $\pm$ 0.000 χ^2 /NDF:6426876.4/43

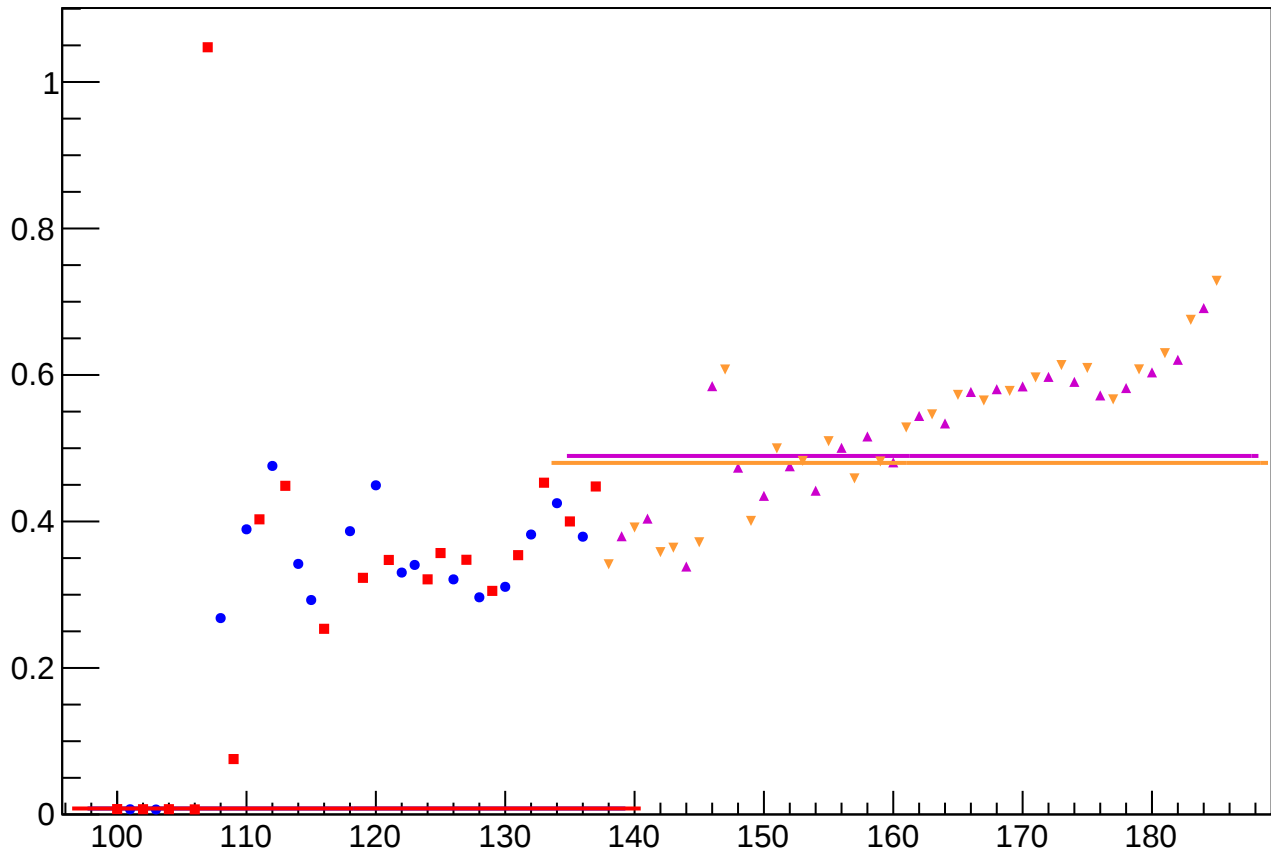
All: 0.562 $\pm$ 0.000 χ^2 /NDF: 11270933.5/83

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.288 +/- 0.000 χ^2/NDF : 2492505563660.4/16
 Left Out: 148.945 +/- 0.000 χ^2/NDF : 64728709.2/24
 Right Out: 377.290 +/- 0.000 χ^2/NDF : 8277094761031.6/18
 Left In: 148.672 +/- 0.000 χ^2/NDF : 252846428.3/22
 All: 376.617 +/- 0.000 χ^2/NDF : 182059358857.0/36

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 9842025.8/16

Left Out: 0.480+/-0.000 χ^2/NDF :1508622.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 9491450.8/18

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.485+/-0.000 χ^2/NDF : 2591175.9/47

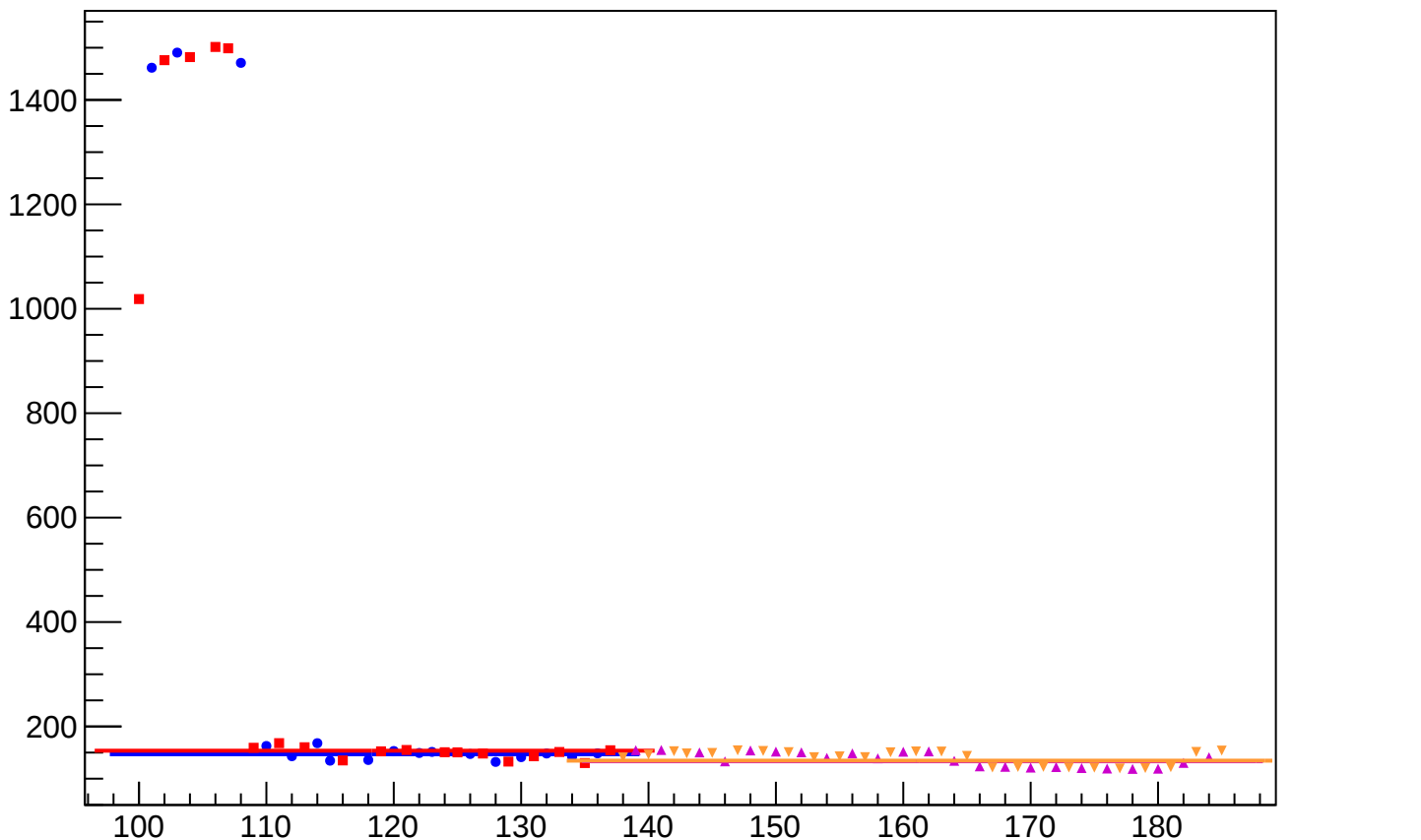
Right: 0.008+/-0.000 χ^2/NDF : 19333484.2/35

In: 0.011+/-0.000 χ^2/NDF :42450195.1/39

Out: 0.010+/-0.000 χ^2/NDF :43808057.1/43

All: 0.010+/-0.000 χ^2/NDF : 86258559.1/83

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.782+/-0.000 χ^2/NDF : 24345208780.4/16

Left Out: 134.519+/-0.000 χ^2/NDF : 4361672574.6/24

Right Out: 153.596+/-0.000 χ^2/NDF : 33791266543.9/18

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.940+/-0.000 χ^2/NDF : 8681673216.8/47

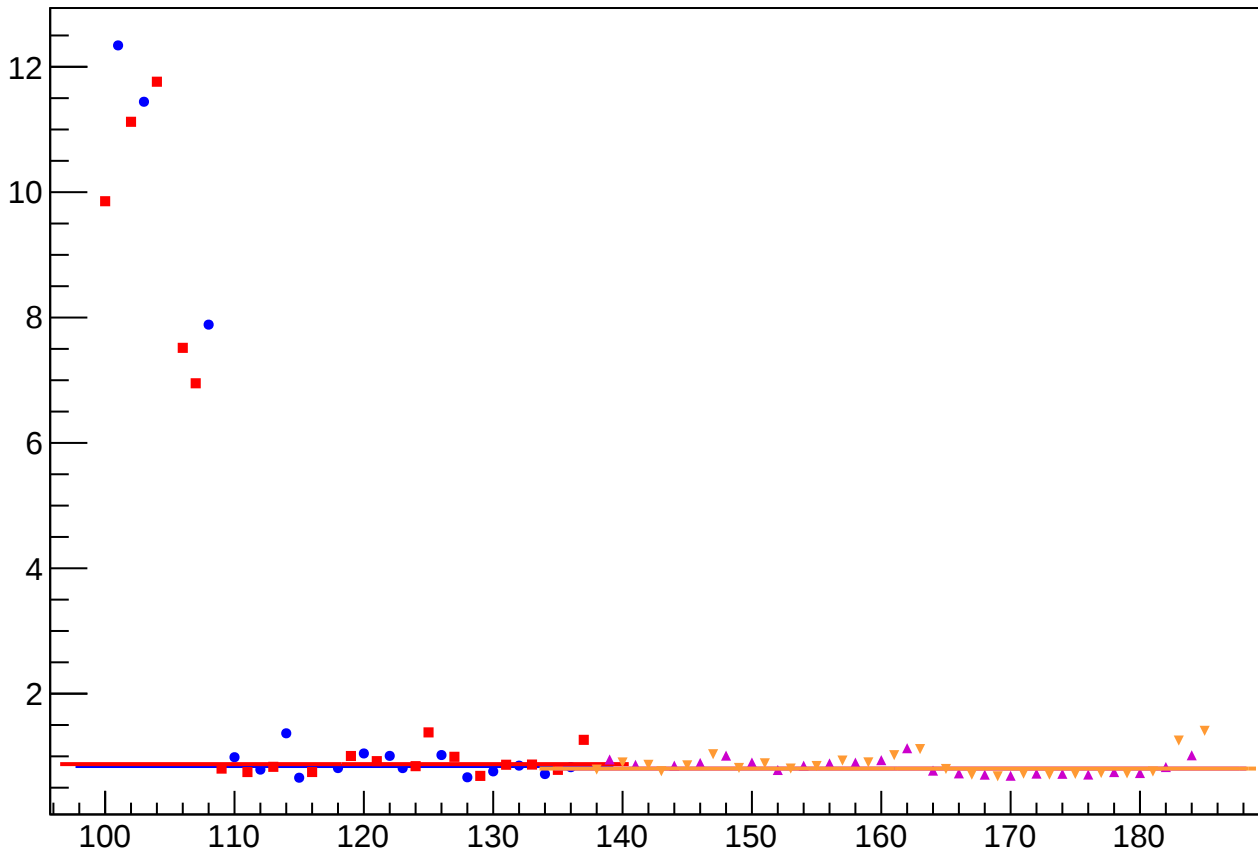
Right: 150.182+/-0.000 χ^2/NDF : 58259873830.0/35

In: 135.889+/-0.000 χ^2/NDF : 29429120581.8/39

Out: 138.012+/-0.000 χ^2/NDF : 39730317409.4/43

All: 136.967+/-0.000 χ^2/NDF : 69223694596.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.846+/-0.000 χ^2/NDF : 2658649.7/16

Left Out: 0.805+/-0.000 χ^2/NDF : 694642.0/24

Right Out: 0.876+/-0.000 χ^2/NDF : 2826804.8/18

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1175153.8/47

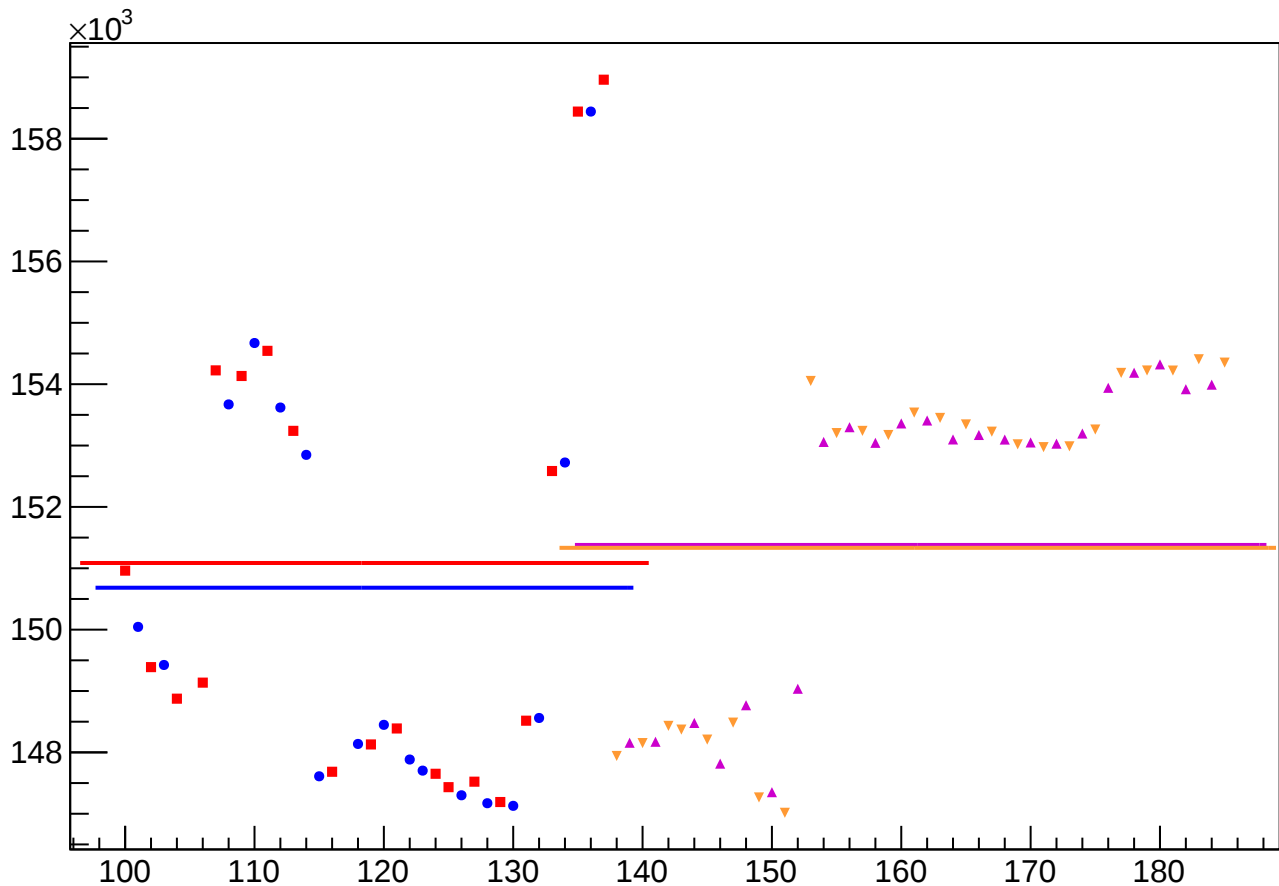
Right: 0.861+/-0.000 χ^2/NDF : 5490366.4/35

In: 0.813+/-0.000 χ^2/NDF : 3153585.6/39

Out: 0.818+/-0.000 χ^2/NDF : 3565235.2/43

All: 0.815+/-0.000 χ^2/NDF : 6719670.9/83

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150683.304+/-0.063

χ^2/NDF : 3299311261.5/16

Left: 151355.672+/-0.035

χ^2/NDF : 5493500922.9/4

Right: 150895.868+/-0.043

χ^2/NDF : 6618337097.0/4

Left Out: 151333.289+/-0.049

χ^2/NDF : 3129165029.3/24

In: 151103.592+/-0.040

χ^2/NDF : 5736786186.6/39

Right Out: 151086.261+/-0.060

χ^2/NDF : 3297509595.7/18

Out: 151234.213+/-0.038

χ^2/NDF : 6436924679.3/4

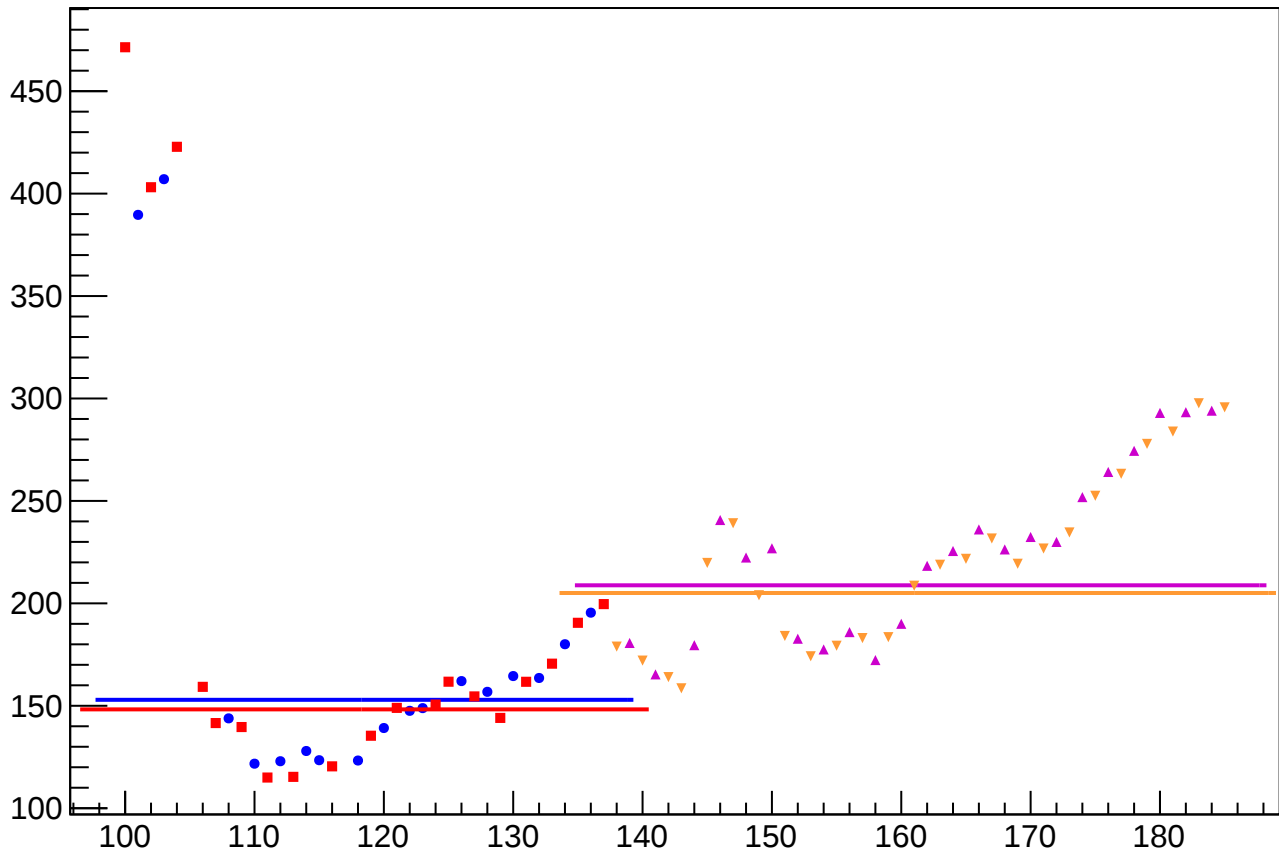
Left In: 151380.236+/-0.051

χ^2/NDF : 2363895785.3/22

All: 151172.160+/-0.027

χ^2/NDF : 121793787.0/4

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.916 $\pm$ 0.045 χ^2 /NDF: 1154367.4/16

Left Out: 205.060 $\pm$ 0.035 χ^2 /NDF:1055109.2/24

Right Out: 148.245 $\pm$ 0.042 χ^2 /NDF: 1189017.0/18

Left In: 208.813 $\pm$ 0.036 χ^2 /NDF:1001936.6/22

Left: 206.849 $\pm$ 0.025 χ^2 /NDF: 2062671.1/47

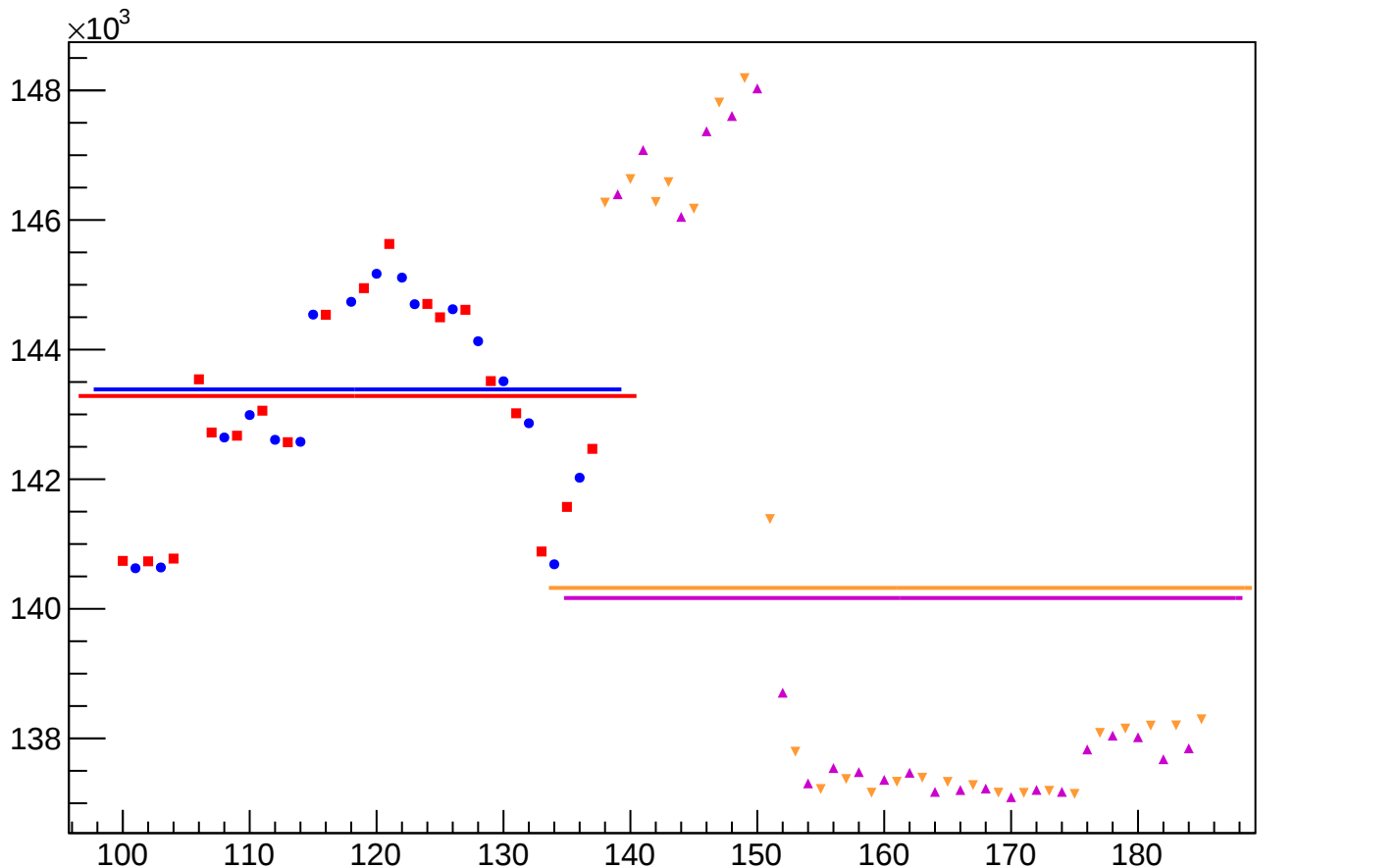
Right: 150.452 $\pm$ 0.031 χ^2 /NDF: 2349165.6/35

In: 186.625 $\pm$ 0.028 χ^2 /NDF:3102926.5/39

Out: 182.273 $\pm$ 0.027 χ^2 /NDF:3328501.1/43

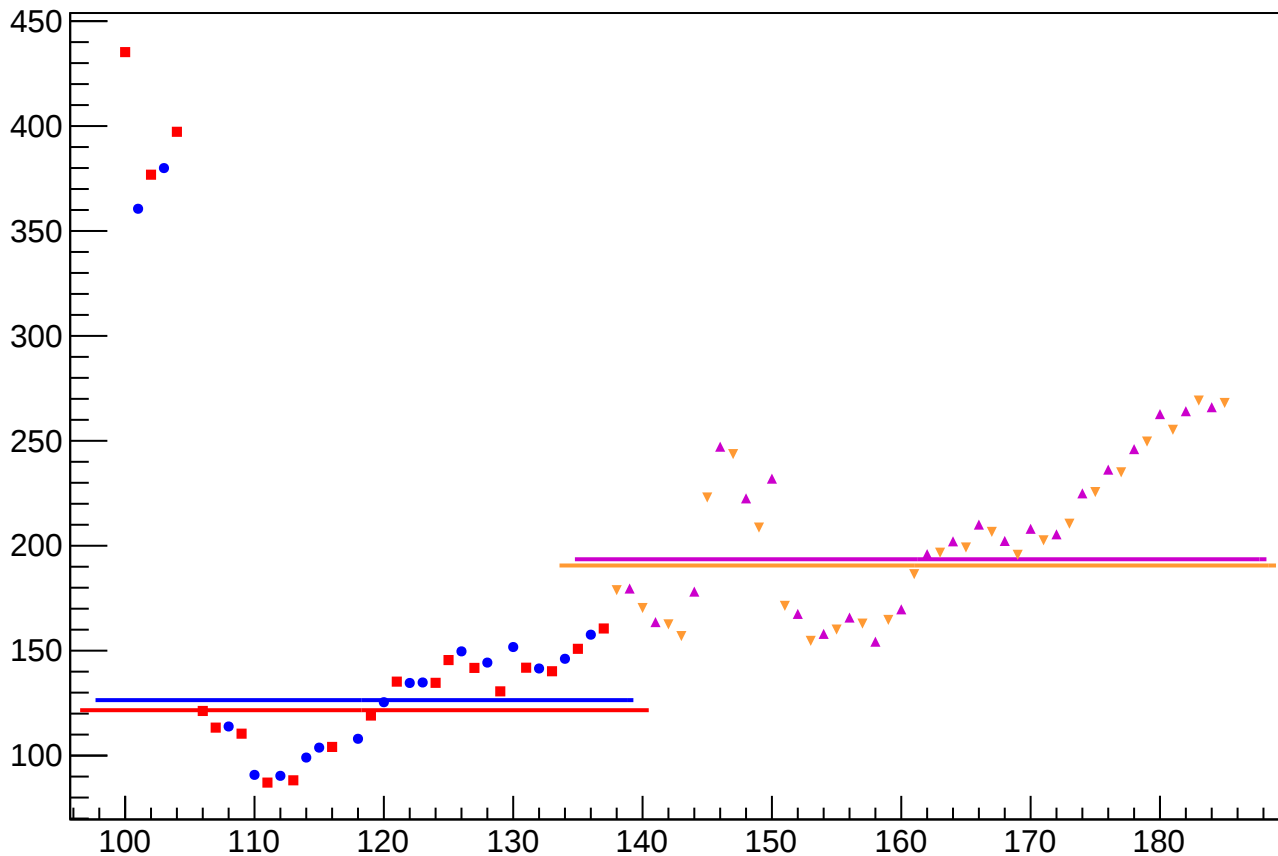
All: 184.340 $\pm$ 0.019 χ^2 /NDF: 6444008.6/83

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143385.822 $\pm$ 0.053	χ^2 /NDF: 520518329.3/16	Left: 140248.480 $\pm$ 0.033	χ^2 /NDF: 16585618280.0
Left Out: 140323.016 $\pm$ 0.045	χ^2 /NDF: 8551504331.2/24	Right: 143331.368 $\pm$ 0.036	χ^2 /NDF: 1130981734.7
Right Out: 143284.246 $\pm$ 0.049	χ^2 /NDF: 608478885.8/18	In: 141605.279 $\pm$ 0.035	χ^2 /NDF: 10605306380.5/3
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 141686.702 $\pm$ 0.033	χ^2 /NDF: 11121362673.8
		All: 141648.318 $\pm$ 0.024	χ^2 /NDF: 217294828

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.427+/-0.037 χ^2/NDF : 1442156.7/16

Left Out: 190.587+/-0.032 χ^2/NDF : 949492.9/24

Right Out: 121.629+/-0.035 χ^2/NDF : 1458546.9/18

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 192.006+/-0.023 χ^2/NDF : 1917263.1/47

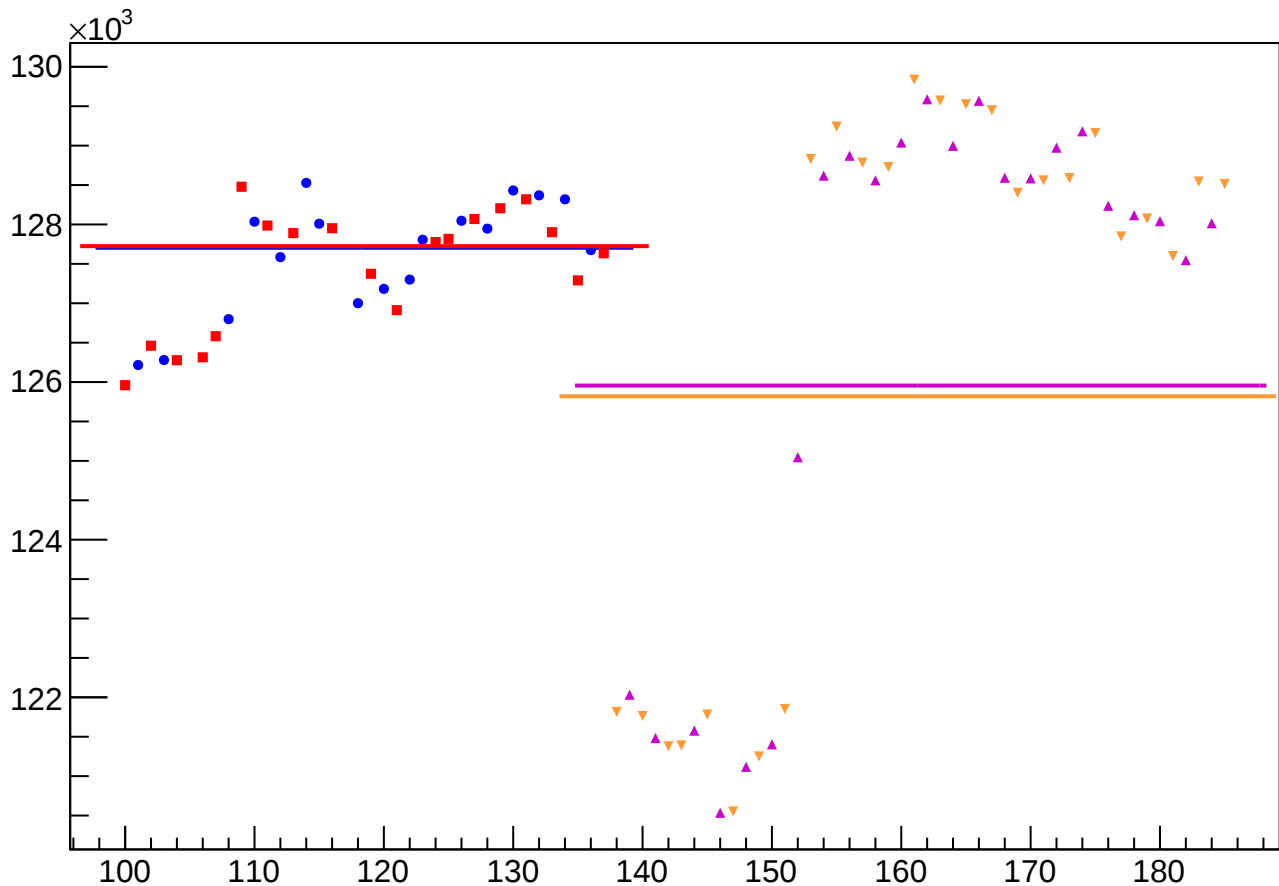
Right: 123.855+/-0.025 χ^2/NDF : 2909560.8/35

In: 163.562+/-0.025 χ^2/NDF : 4194638.5/39

Out: 158.831+/-0.024 χ^2/NDF : 4535304.6/43

All: 161.061+/-0.017 χ^2/NDF : 8748937.4/83

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127704.536 $\pm$ 0.058

χ^2 /NDF: 97614287.1/16

Left Out: 125819.607 $\pm$ 0.044

χ^2 /NDF: 6642086483.6/24

Right Out: 127724.288 $\pm$ 0.055

χ^2 /NDF: 112647022.0/18

Left In: 125955.637 $\pm$ 0.045

χ^2 /NDF: 5804088930.1/22

Left: 125886.681 $\pm$ 0.031

χ^2 /NDF: 12450847843.4/16

Right: 127715.047 $\pm$ 0.040

χ^2 /NDF: 210322651.4/30

In: 126606.791 $\pm$ 0.035

χ^2 /NDF: 6468962850.1/30

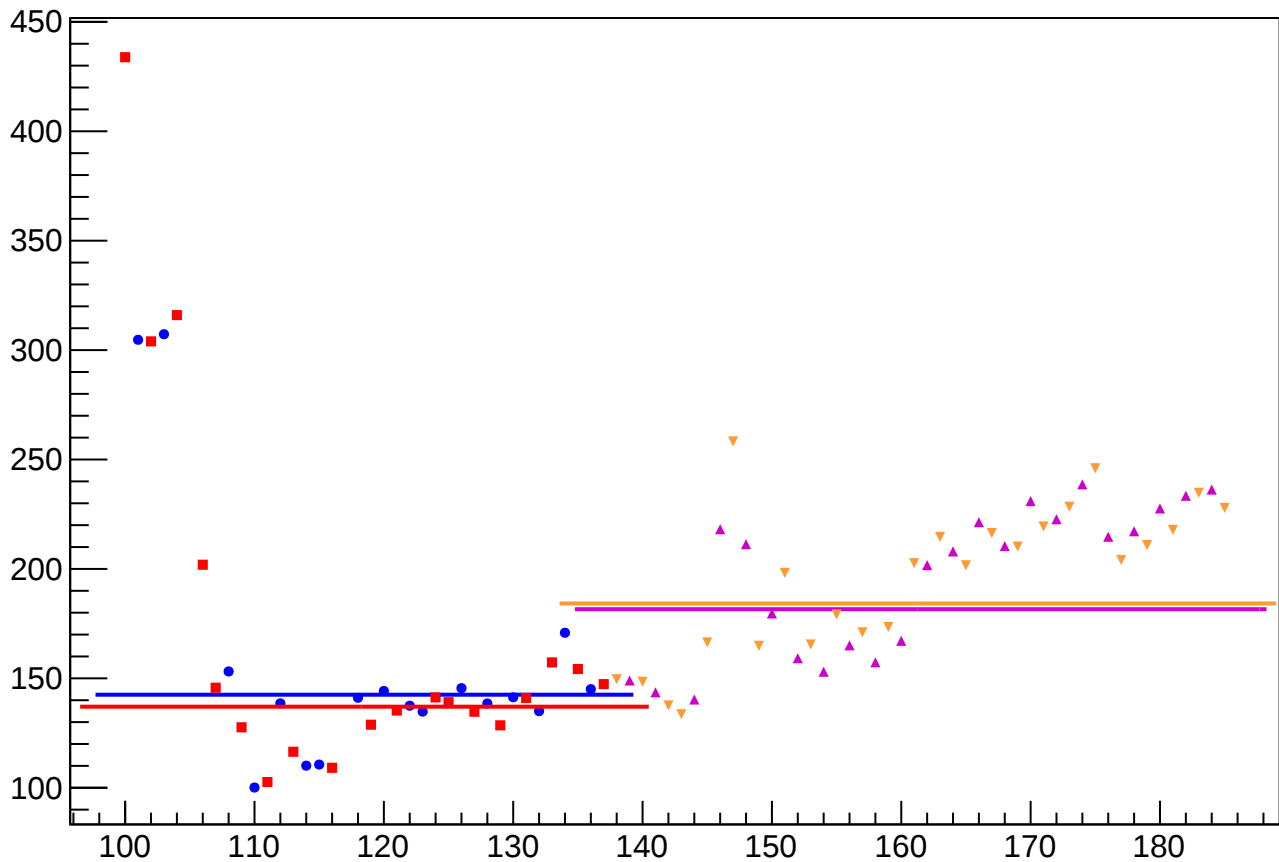
Out: 126574.276 $\pm$ 0.034

χ^2 /NDF: 7490829042.4/40

All: 126589.993 $\pm$ 0.025

χ^2 /NDF: 139602253.0/100

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.524+/-0.041 χ^2/NDF : 836220.9/16

Left Out: 184.210+/-0.031 χ^2/NDF : 1116535.3/24

Right Out: 137.050+/-0.039 χ^2/NDF : 956482.5/18

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.921+/-0.022 χ^2/NDF : 2223509.8/47

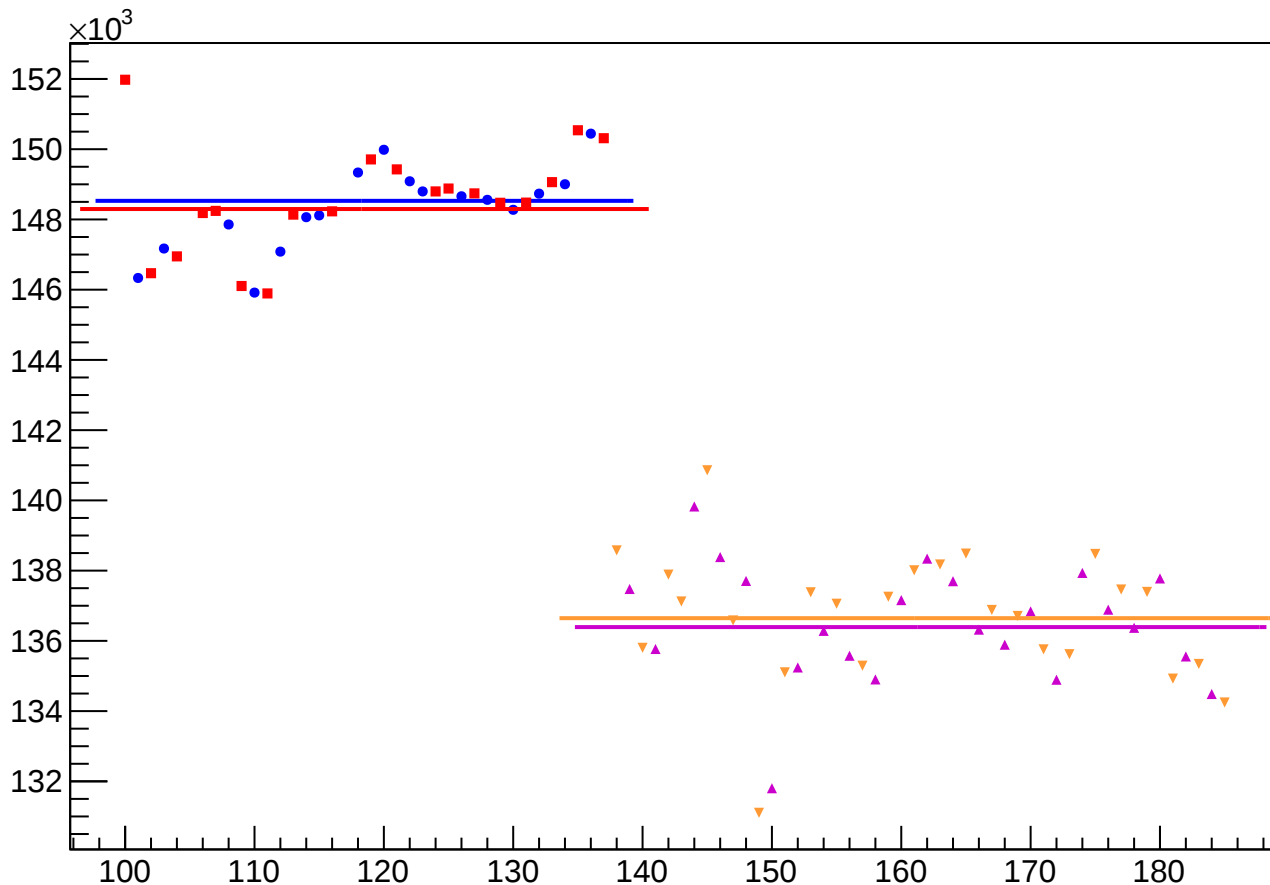
Right: 139.611+/-0.028 χ^2/NDF : 1802128.3/35

In: 167.049+/-0.025 χ^2/NDF : 2505985.8/39

Out: 165.524+/-0.024 χ^2/NDF : 2975553.8/43

All: 166.261+/-0.017 χ^2/NDF : 5483445.6/83

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148529.735 $\pm$ 0.082 χ^2 /NDF: 209963911.3/16

Left Out: 136646.298 $\pm$ 0.065 χ^2 /NDF: 929879996.0/24

Right Out: 148296.414 $\pm$ 0.076 χ^2 /NDF: 293172260.2/18

Left In: 136392.188 $\pm$ 0.066 χ^2 /NDF: 701986841.4/22

Left: 136521.340 $\pm$ 0.046 χ^2 /NDF: 1639408589.9/4

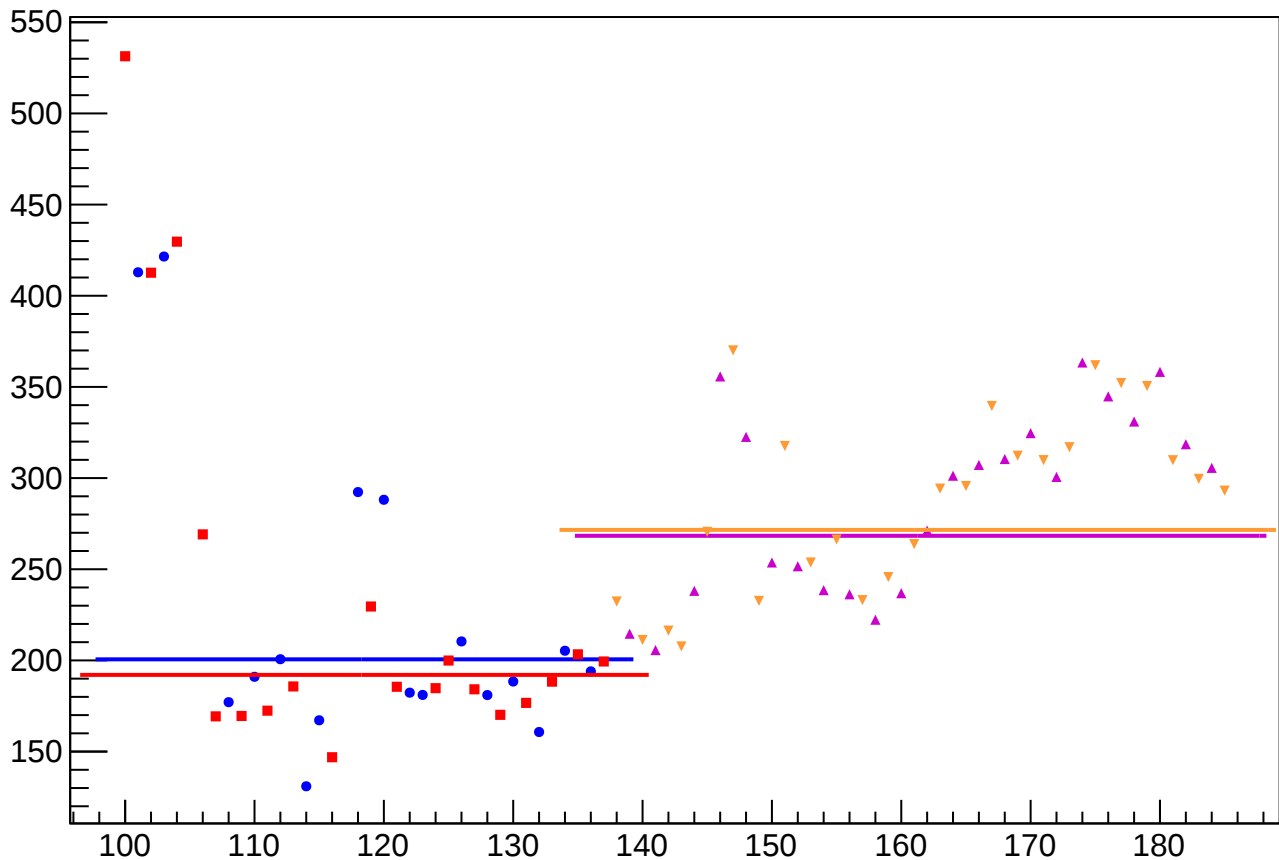
Right: 148404.511 $\pm$ 0.056 χ^2 /NDF: 507452913.3/3

In: 141142.039 $\pm$ 0.051 χ^2 /NDF: 14160163491.6/3

Out: 141525.526 $\pm$ 0.049 χ^2 /NDF: 14724092949.7

All: 141341.373 $\pm$ 0.036 χ^2 /NDF: 28913116

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.585+/-0.058 χ^2/NDF : 935452.3/16

Left Out: 271.578+/-0.046 χ^2/NDF : 1061733.4/24

Right Out: 192.054+/-0.054 χ^2/NDF : 845373.5/18

Left In: 268.344+/-0.047 χ^2/NDF : 1077364.0/22

Left: 269.988+/-0.033 χ^2/NDF : 2141541.7/47

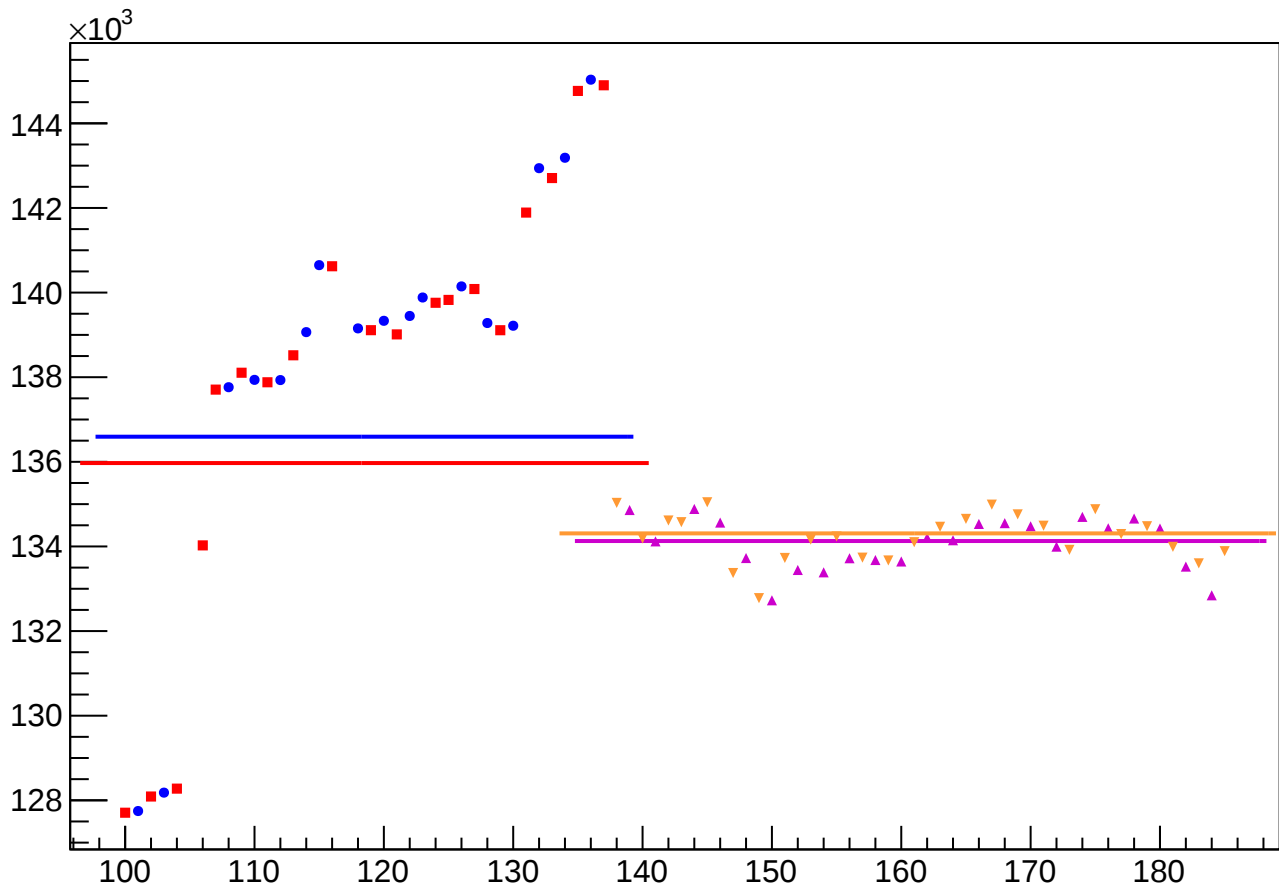
Right: 196.006+/-0.040 χ^2/NDF : 1792367.6/35

In: 241.827+/-0.036 χ^2/NDF : 2838580.2/39

Out: 238.272+/-0.035 χ^2/NDF : 3165272.5/43

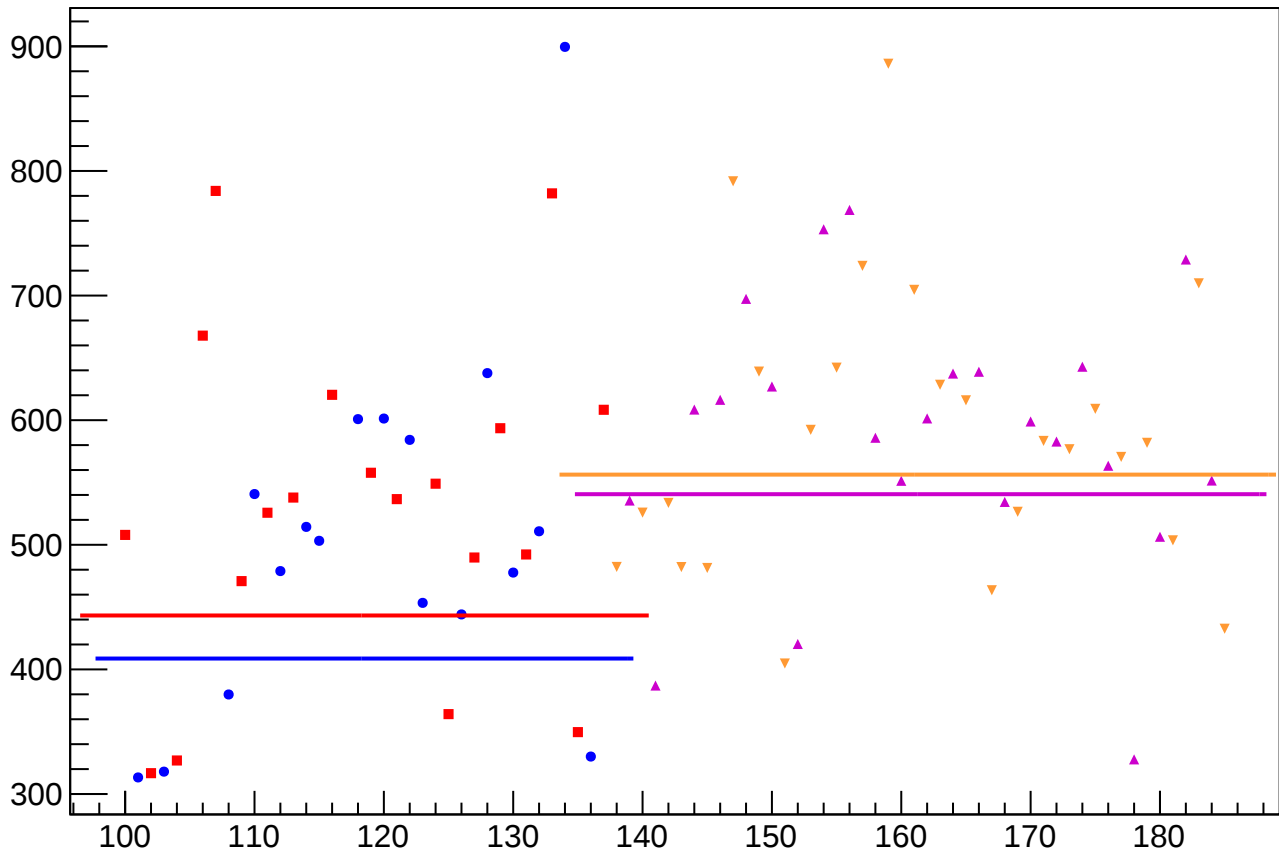
All: 239.979+/-0.025 χ^2/NDF : 6008812.3/83

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136593.896 $\pm$ 0.172	χ^2 /NDF: 1493317567.5/16	Left: 134220.345 $\pm$ 0.099	χ^2 /NDF: 31848142.6/47
Left Out: 134308.692 $\pm$ 0.139	χ^2 /NDF: 15489084.6/24	Right: 136301.988 $\pm$ 0.125	χ^2 /NDF: 2580296104.5/
Right Out: 135970.927 $\pm$ 0.183	χ^2 /NDF: 1080815746.9/18	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: 134917.164 $\pm$ 0.111	χ^2 /NDF: 1148645379.7/4
		All: 135024.285 $\pm$ 0.078	χ^2 /NDF: 278175738

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.721 $\pm$ 0.121 χ^2/NDF : 830375.0/16

Left Out: 556.317 $\pm$ 0.098 χ^2/NDF :1006274.0/24

Right Out: 443.274 $\pm$ 0.129 χ^2/NDF : 916555.3/18

Left In: 540.607 $\pm$ 0.100 χ^2/NDF :1409015.2/22

Left: 548.628 $\pm$ 0.070 χ^2/NDF : 2427790.8/47

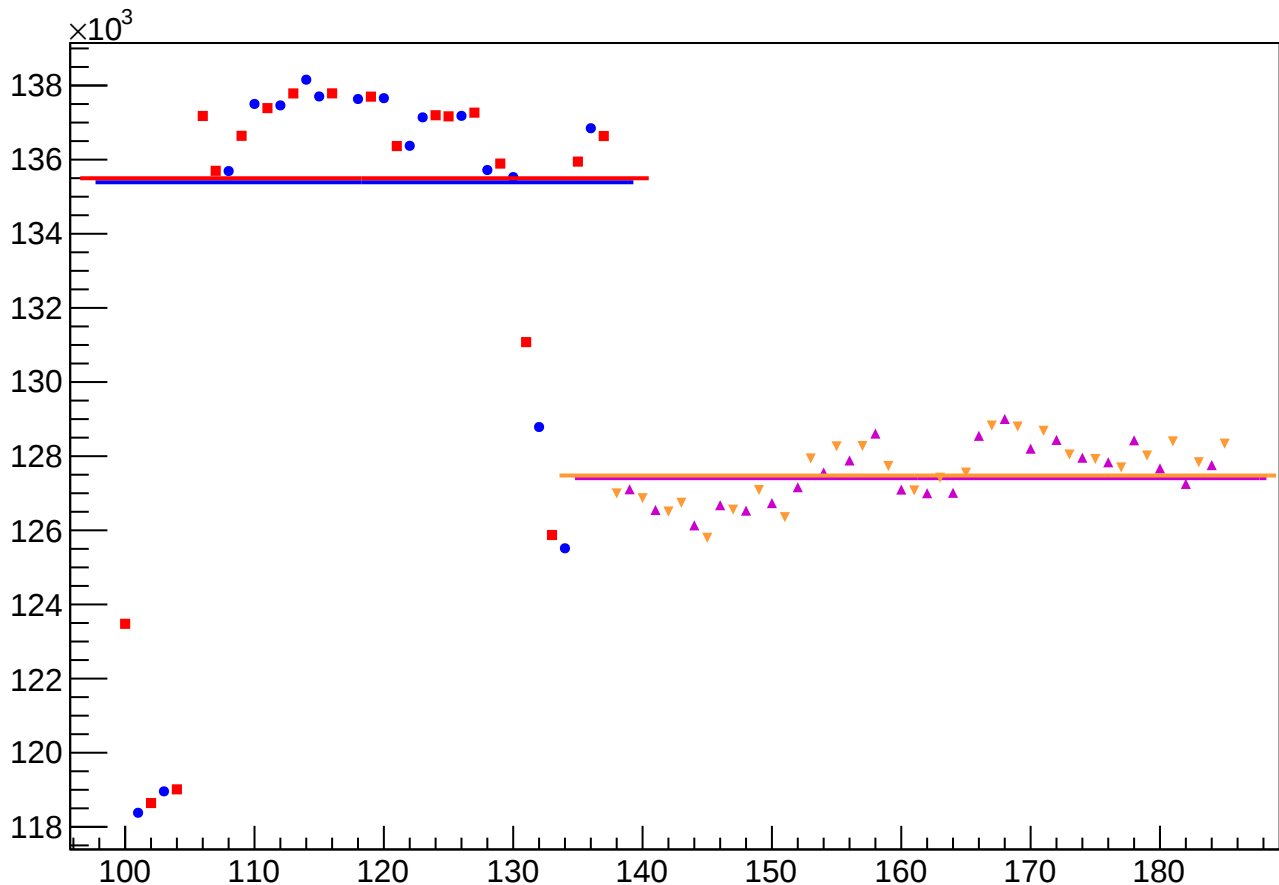
Right: 424.912 $\pm$ 0.089 χ^2/NDF : 1784847.3/35

In: 487.074 $\pm$ 0.077 χ^2/NDF :2939793.0/39

Out: 514.937 $\pm$ 0.078 χ^2/NDF :2406973.1/43

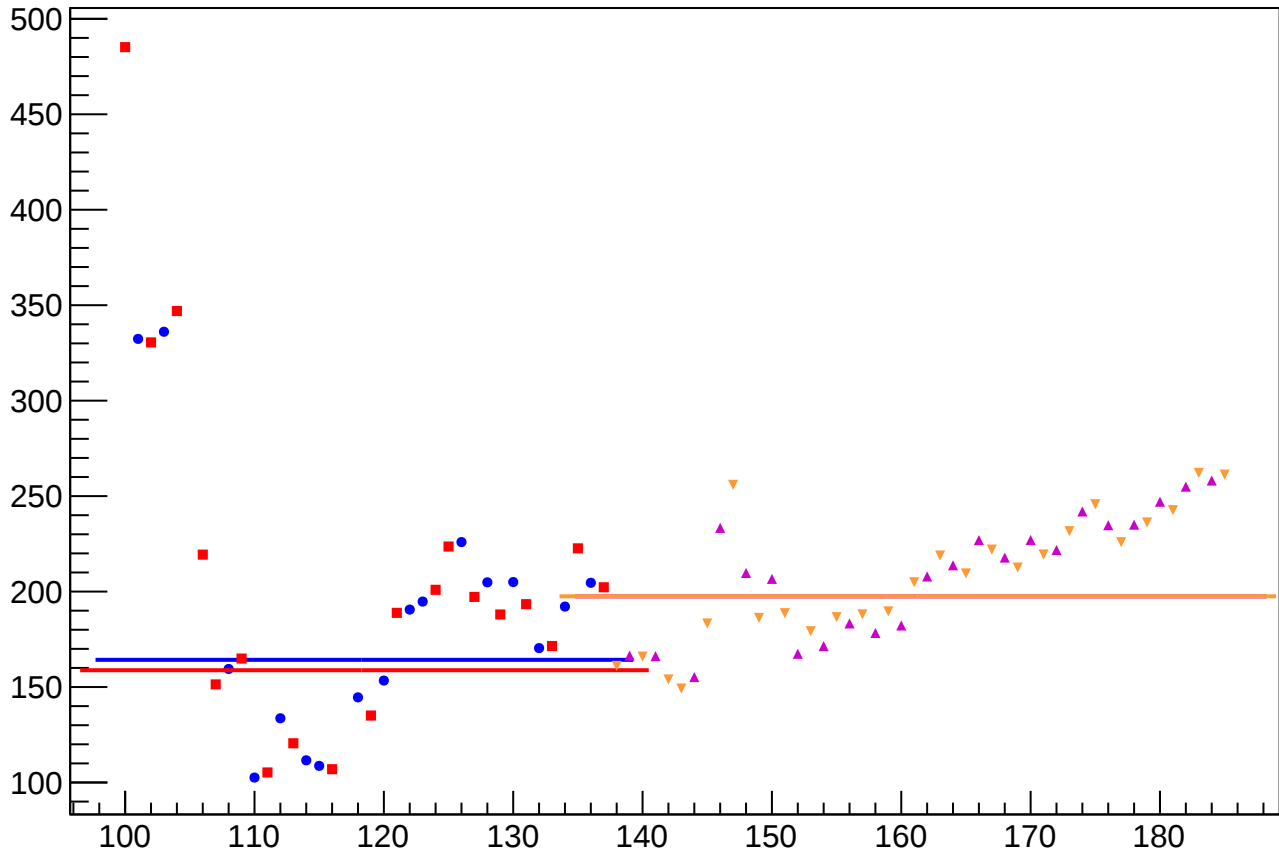
All: 500.848 $\pm$ 0.055 χ^2/NDF : 5410853.2/83

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135389.443 $\pm$ 0.068	χ^2 /NDF: 4578120272.5/16	Left: 127443.922 $\pm$ 0.034	χ^2 /NDF: 572304238.4/41
Left Out: 127478.945 $\pm$ 0.047	χ^2 /NDF: 301236462.7/24	Right: 135446.829 $\pm$ 0.047	χ^2 /NDF: 9318066155.5/16
Right Out: 135497.758 $\pm$ 0.064	χ^2 /NDF: 4738615601.8/18	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: 130269.598 $\pm$ 0.038	χ^2 /NDF: 15149786986.7/16
		All: 130173.571 $\pm$ 0.027	χ^2 /NDF: 290991944.0/16

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.250 $\pm$ 0.048 χ^2 /NDF: 1227814.4/16

Left Out: 197.520 $\pm$ 0.033 χ^2 /NDF: 847394.5/24

Right Out: 158.804 $\pm$ 0.046 χ^2 /NDF: 1376920.6/18

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.496 $\pm$ 0.024 χ^2 /NDF: 1638973.1/47

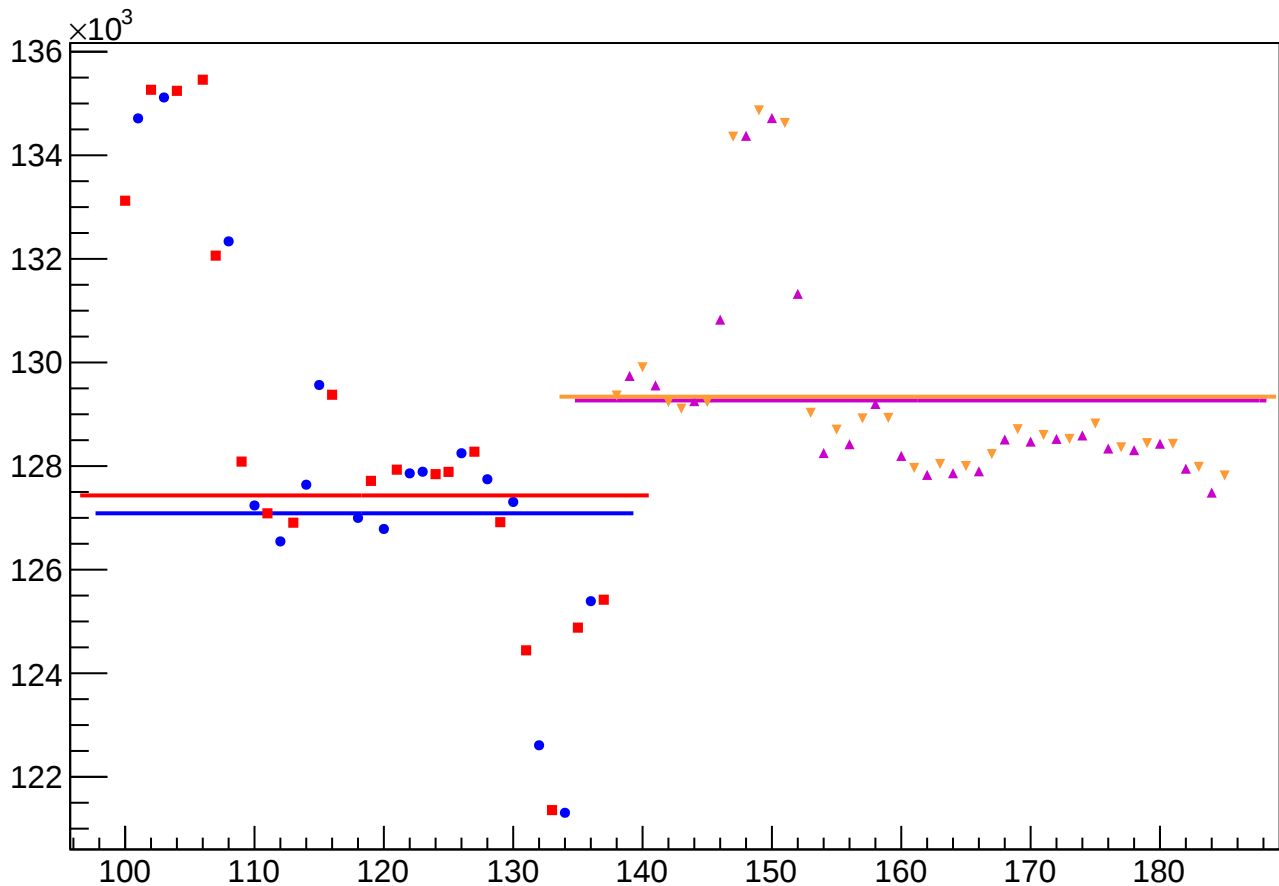
Right: 161.365 $\pm$ 0.033 χ^2 /NDF: 2611460.2/35

In: 186.389 $\pm$ 0.028 χ^2 /NDF: 2334204.3/39

Out: 184.046 $\pm$ 0.027 χ^2 /NDF: 2695646.4/43

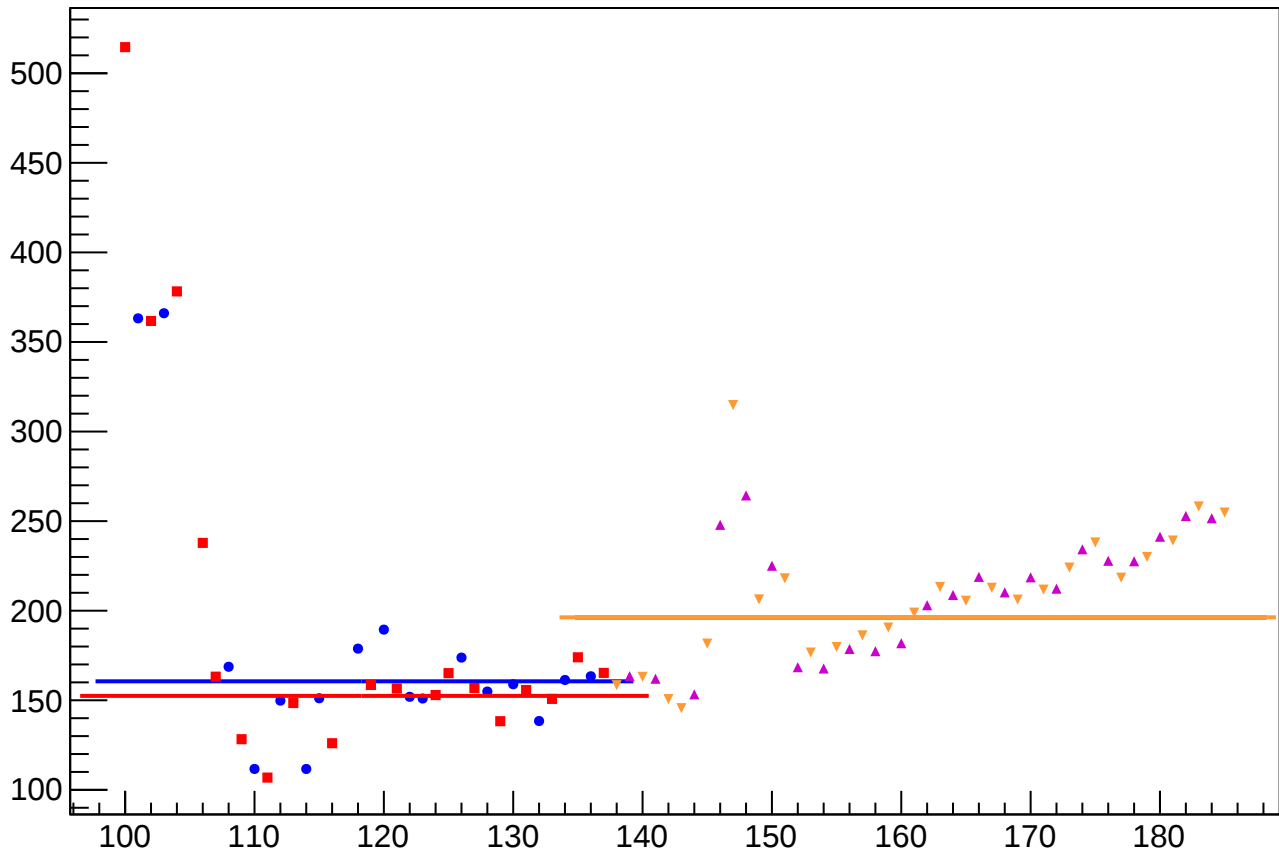
All: 185.172 $\pm$ 0.019 χ^2 /NDF: 5033506.6/83

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127088.167+/-0.066	χ^2/NDF : 1716591601.9/16	Left: 129304.271+/-0.034	χ^2/NDF : 2665149779.1/4
Left Out: 129339.737+/-0.047	χ^2/NDF : 1450213577.8/24	Right: 127273.865+/-0.045	χ^2/NDF : 3812853475.7/4
Right Out: 127433.358+/-0.062	χ^2/NDF : 2081739412.0/18	In: 128516.523+/-0.039	χ^2/NDF : 3635397599.5/39
Left In: 129266.909+/-0.048	χ^2/NDF : 1213762773.1/22	Out: 128639.442+/-0.037	χ^2/NDF : 4138447367.8/4
		All: 128580.675+/-0.027	χ^2/NDF : 777903203.1/1

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.589 $\pm$ 0.047 χ^2/NDF : 942522.1/16

Left Out: 196.305 $\pm$ 0.033 χ^2/NDF : 971725.3/24

Right Out: 152.452 $\pm$ 0.044 χ^2/NDF : 1084973.3/18

Left In: 196.186 $\pm$ 0.034 χ^2/NDF : 898058.0/22

Left: 196.247 $\pm$ 0.024 χ^2/NDF : 1869789.6/47

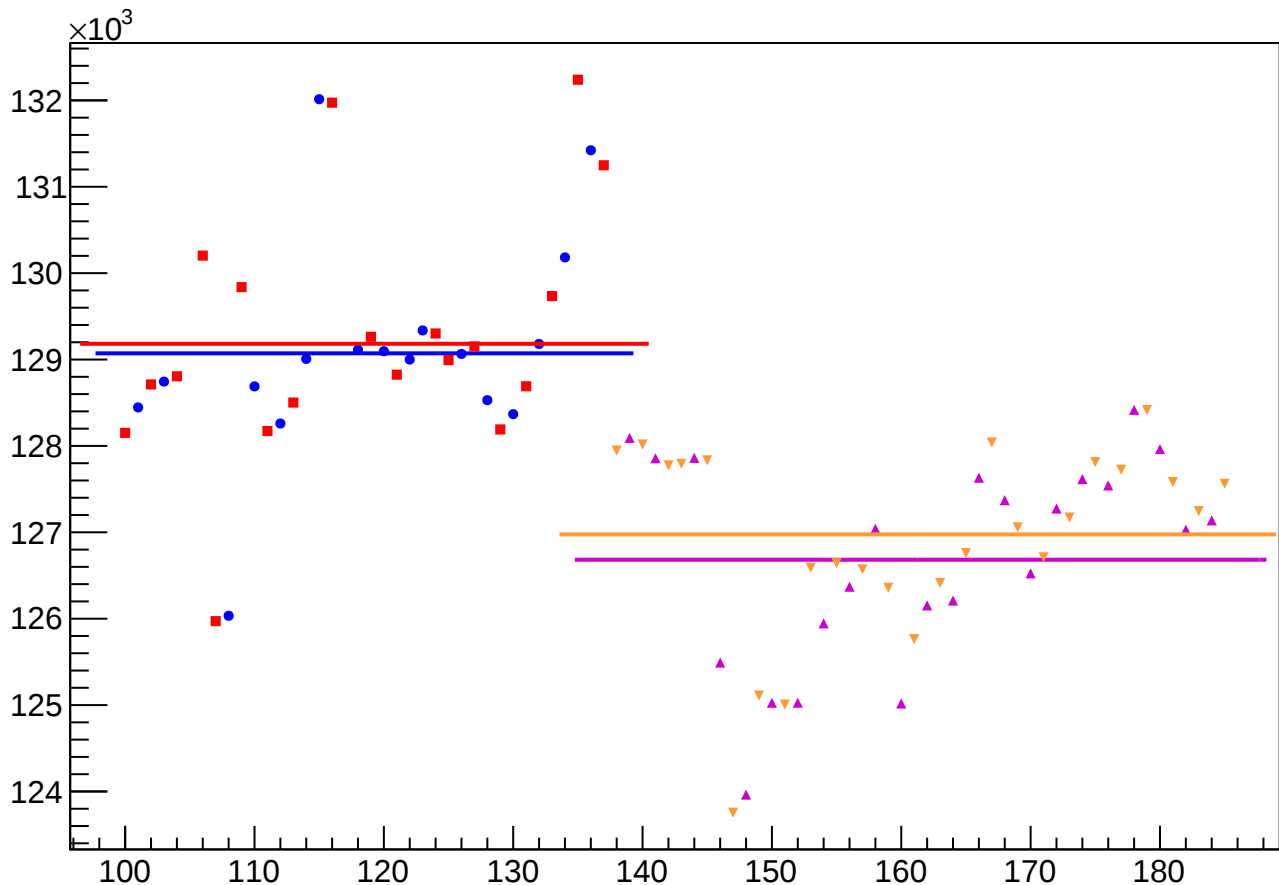
Right: 156.211 $\pm$ 0.032 χ^2/NDF : 2043633.6/35

In: 183.926 $\pm$ 0.028 χ^2/NDF : 2217000.3/39

Out: 180.196 $\pm$ 0.026 χ^2/NDF : 2698567.9/43

All: 181.979 $\pm$ 0.019 χ^2/NDF : 4925120.1/83

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129071.617 $\pm$ 0.060 χ^2 /NDF: 476291091.1/16

Left Out: 126975.686 $\pm$ 0.046 χ^2 /NDF: 528606175.7/24

Right Out: 129182.486 $\pm$ 0.056 χ^2 /NDF: 625425272.9/18

Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22

Left: 126833.187 $\pm$ 0.033 χ^2 /NDF: 1208995763.4/4

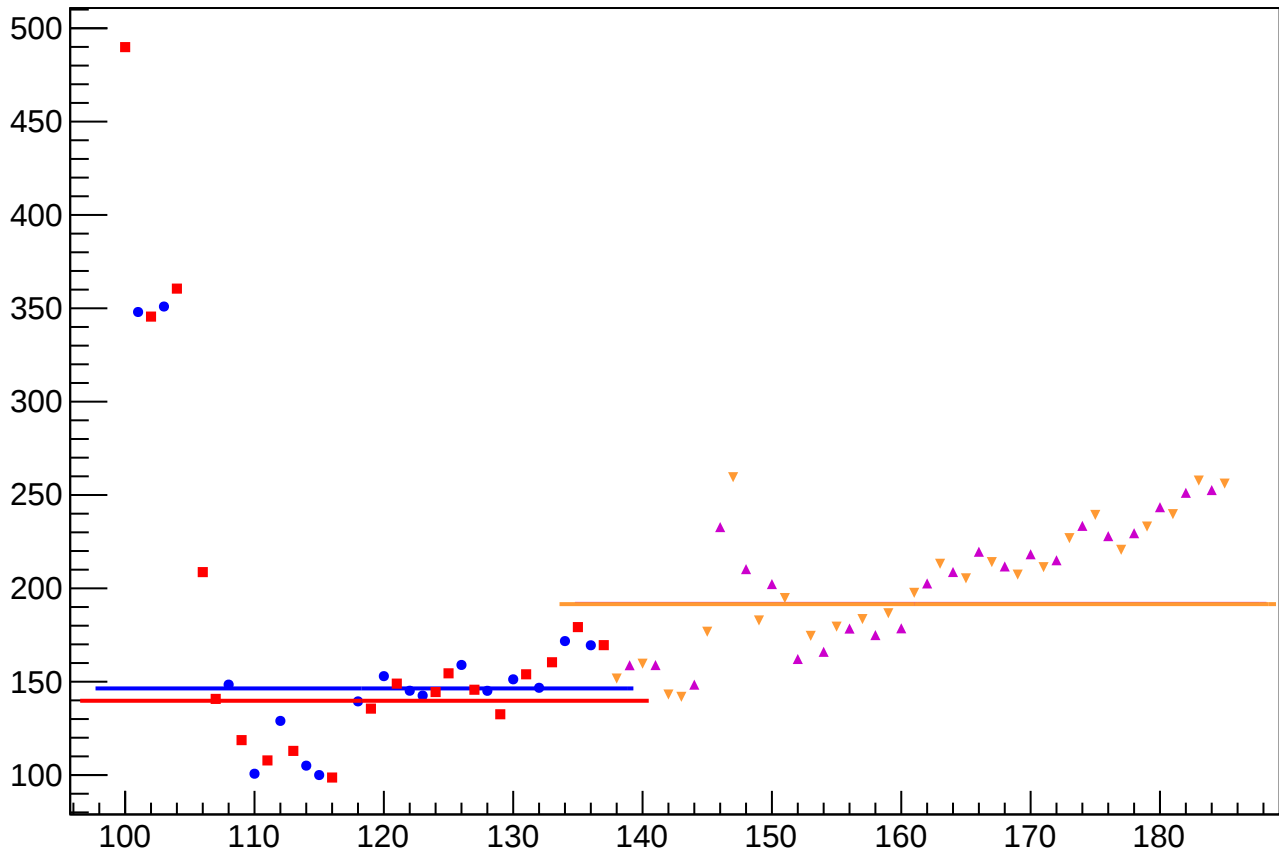
Right: 129130.997 $\pm$ 0.041 χ^2 /NDF: 1103528566.8/4

In: 127585.833 $\pm$ 0.037 χ^2 /NDF: 2113757154.9/3

Out: 127855.996 $\pm$ 0.035 χ^2 /NDF: 2083298050.8/4

All: 127726.915 $\pm$ 0.026 χ^2 /NDF: 422480692.0/16

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.401 $\pm$ 0.043 χ^2 /NDF: 1066973.0/16

Left Out: 191.552 $\pm$ 0.032 χ^2 /NDF: 983867.3/24

Right Out: 139.793 $\pm$ 0.040 χ^2 /NDF: 1200865.0/18

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

Left: 191.615 $\pm$ 0.023 χ^2 /NDF: 1848260.2/47

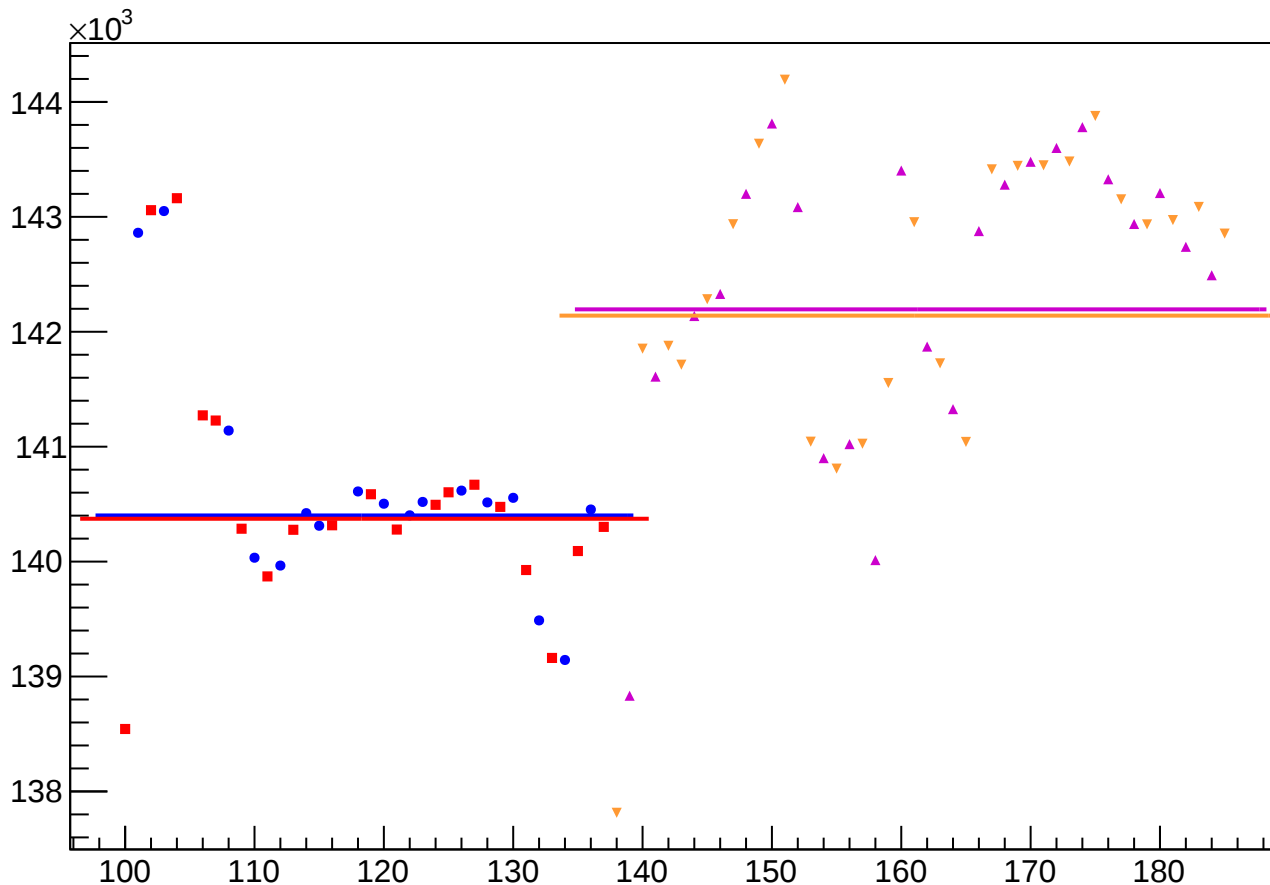
Right: 142.862 $\pm$ 0.029 χ^2 /NDF: 2280713.0/35

In: 174.563 $\pm$ 0.026 χ^2 /NDF: 2633414.5/39

Out: 170.905 $\pm$ 0.025 χ^2 /NDF: 3207100.7/43

All: 172.653 $\pm$ 0.018 χ^2 /NDF: 5850694.5/83

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140401.573 $\pm$ 0.064

χ^2 /NDF: 88055814.0/16

Left: 142167.104 $\pm$ 0.038

χ^2 /NDF: 1459304538.8/4

Left Out: 142140.551 $\pm$ 0.053

χ^2 /NDF: 814749519.4/24

Right: 140386.177 $\pm$ 0.044

χ^2 /NDF: 188006778.1/3

Right Out: 140372.890 $\pm$ 0.060

χ^2 /NDF: 99844698.8/18

In: 141457.690 $\pm$ 0.041

χ^2 /NDF: 1187891172.8/39

Out: 141371.863 $\pm$ 0.039

χ^2 /NDF: 1406993720.1/4

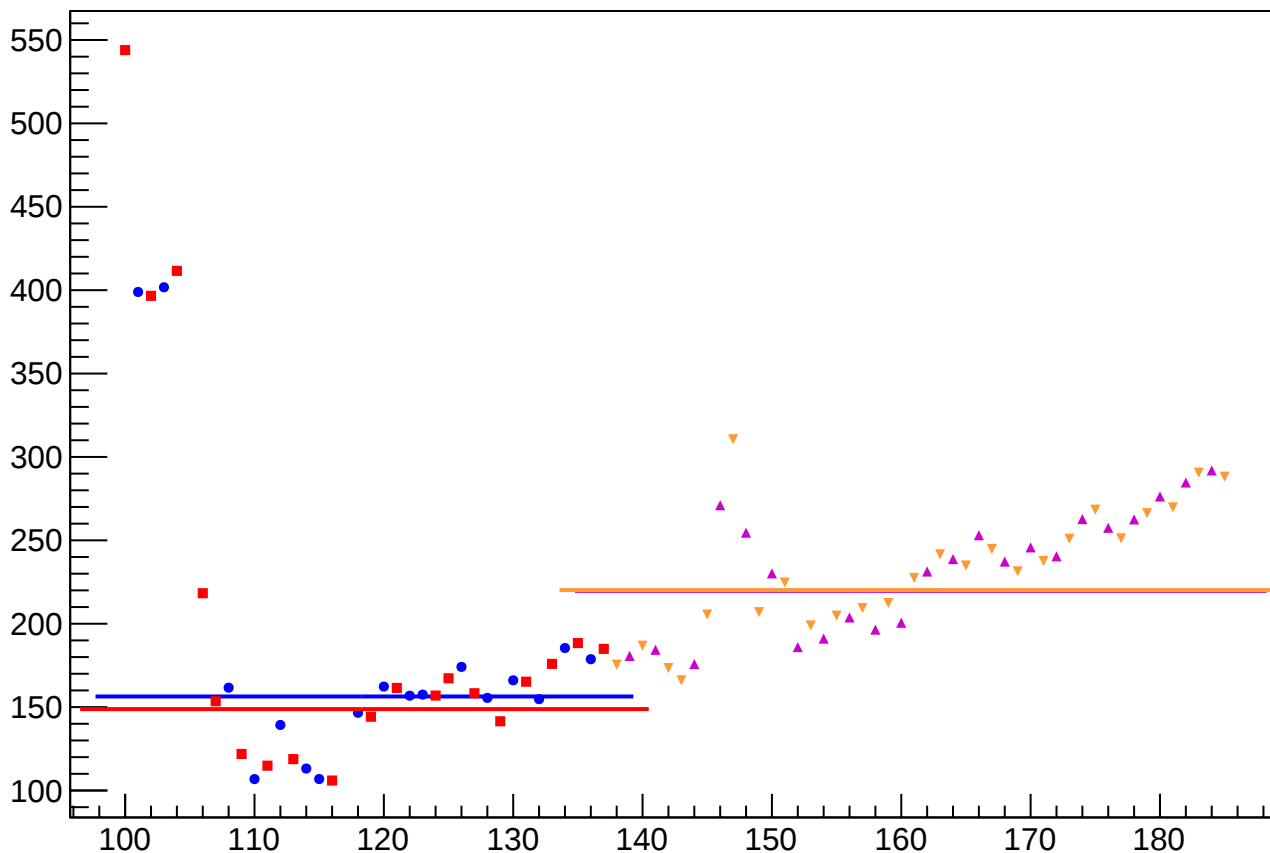
Left In: 142195.020 $\pm$ 0.054

χ^2 /NDF: 644030906.9/22

All: 141412.821 $\pm$ 0.029

χ^2 /NDF: 259713902

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.377 $\pm$ 0.046 χ^2 /NDF: 1154470.5/16

Left Out: 220.186 $\pm$ 0.037 χ^2 /NDF: 864313.2/24

Right Out: 148.800 $\pm$ 0.042 χ^2 /NDF: 1304529.7/18

Left In: 219.685 $\pm$ 0.038 χ^2 /NDF: 812745.1/22

Left: 219.941 $\pm$ 0.027 χ^2 /NDF: 1677147.0/47

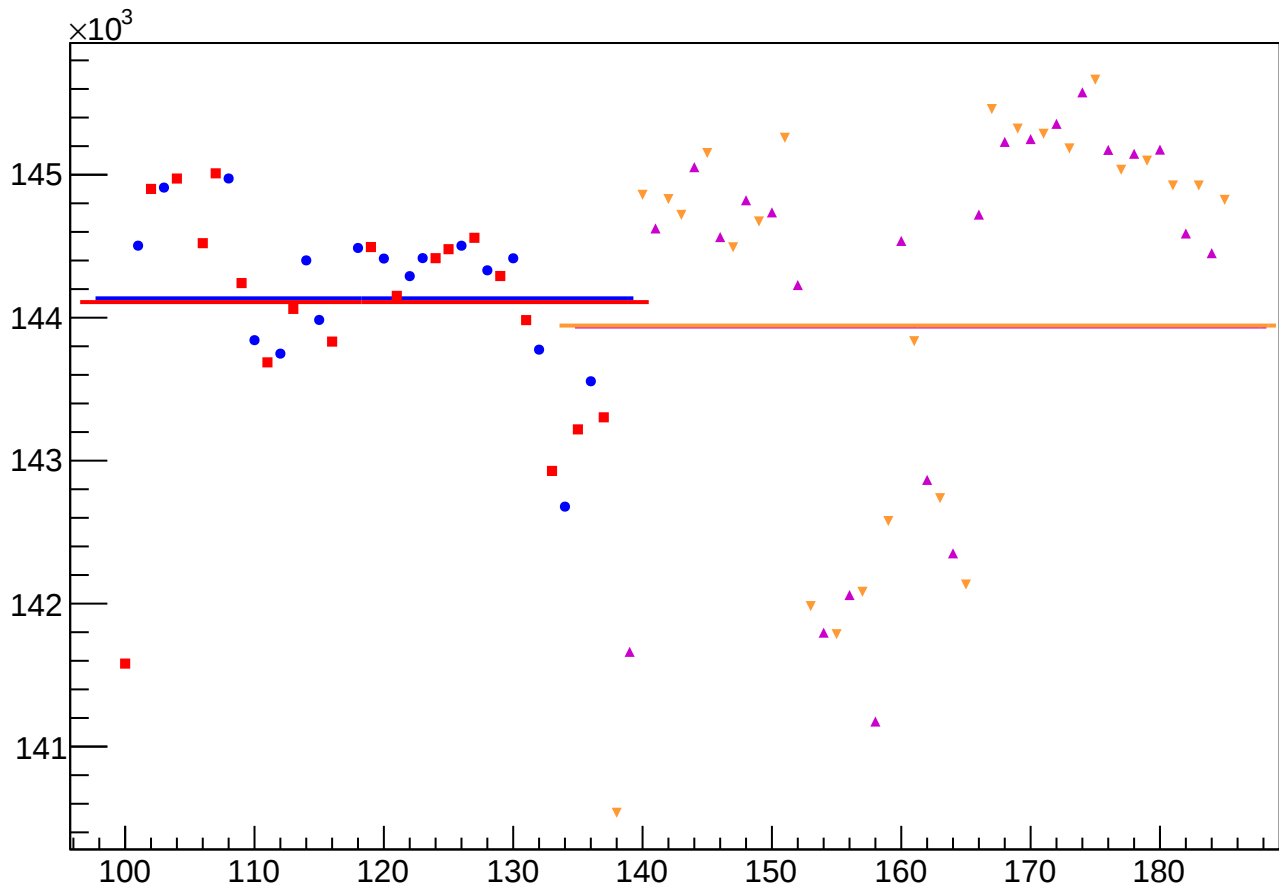
Right: 152.310 $\pm$ 0.031 χ^2 /NDF: 2473830.9/35

In: 193.657 $\pm$ 0.029 χ^2 /NDF: 3103137.9/39

Out: 189.143 $\pm$ 0.028 χ^2 /NDF: 3774952.4/43

All: 191.297 $\pm$ 0.020 χ^2 /NDF: 6890562.8/83

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144135.363 $\pm$ 0.067

χ^2/NDF : 47030717.0/16

Left: 143941.708 $\pm$ 0.038

χ^2/NDF : 1582842501.0/4

Right: 144121.238 $\pm$ 0.045

χ^2/NDF : 112346812.4/3

Left Out: 143944.943 $\pm$ 0.052

χ^2/NDF : 863019964.2/24

Right Out: 144109.137 $\pm$ 0.062

χ^2/NDF : 65233259.1/18

In: 144015.793 $\pm$ 0.042

χ^2/NDF : 772114461.7/39

Out: 144013.441 $\pm$ 0.040

χ^2/NDF : 932354573.8/43

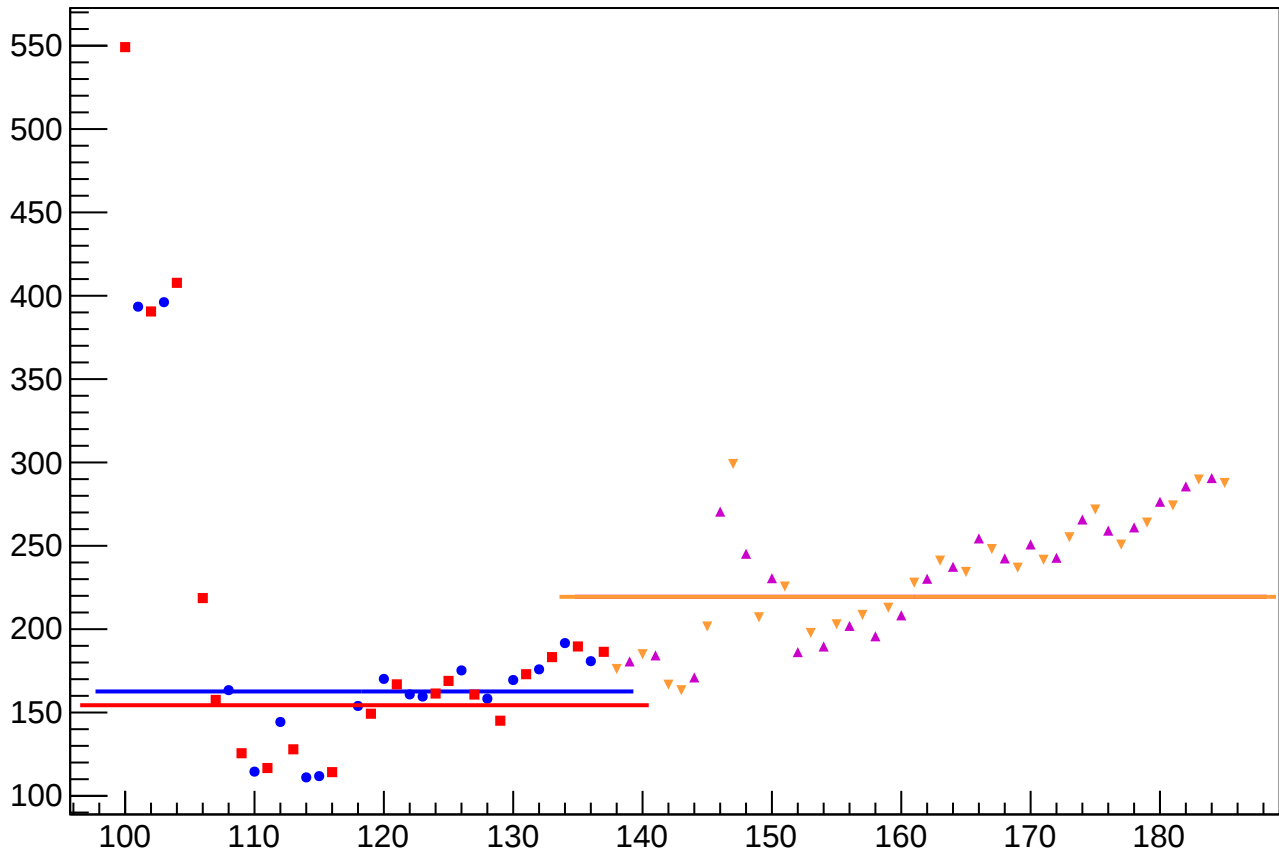
Left In: 143938.288 $\pm$ 0.054

χ^2/NDF : 719814685.6/22

All: 144014.561 $\pm$ 0.029

χ^2/NDF : 170447068

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.634+/-0.047 χ^2/NDF : 1069524.2/16

Left Out: 219.395+/-0.037 χ^2/NDF : 924678.7/24

Right Out: 154.377+/-0.044 χ^2/NDF : 1214462.2/18

Left In: 219.426+/-0.038 χ^2/NDF : 850089.5/22

Left: 219.410+/-0.027 χ^2/NDF : 1774768.6/47

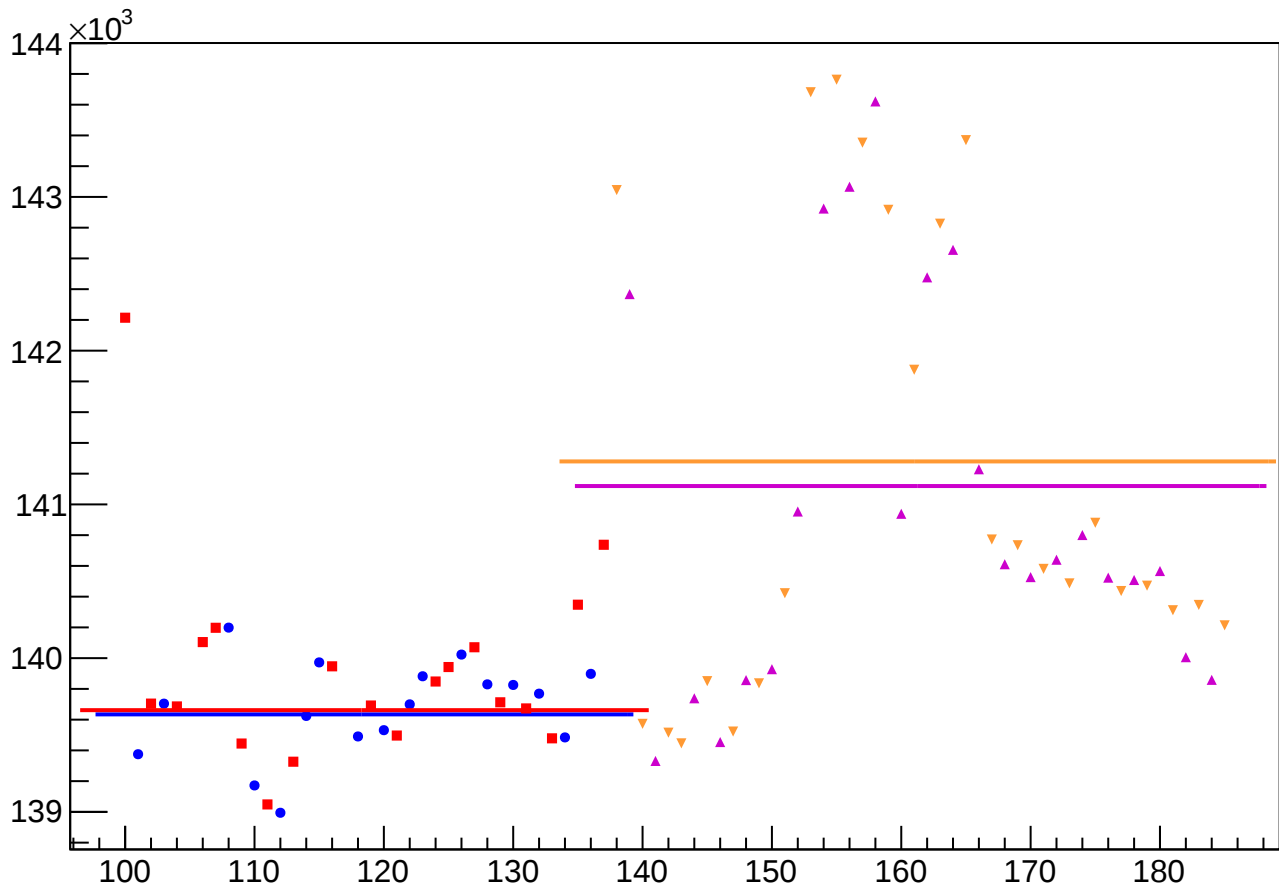
Right: 158.187+/-0.032 χ^2/NDF : 2300407.0/35

In: 197.091+/-0.030 χ^2/NDF : 2794732.5/39

Out: 192.271+/-0.028 χ^2/NDF : 3425314.6/43

All: 194.566+/-0.020 χ^2/NDF : 6233888.1/83

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.248 $\pm$ 0.068

χ^2 /NDF: 24816599.6/16

Left Out: 141279.583 $\pm$ 0.054

χ^2 /NDF: 788962486.7/24

Right Out: 139661.708 $\pm$ 0.063

χ^2 /NDF: 38354381.9/18

Left In: 141119.484 $\pm$ 0.055

χ^2 /NDF: 565312728.1/22

Left: 141201.095 $\pm$ 0.038

χ^2 /NDF: 1358607888.8/4

Right: 139648.993 $\pm$ 0.046

χ^2 /NDF: 63258749.7/35

In: 140532.385 $\pm$ 0.043

χ^2 /NDF: 879280506.9/39

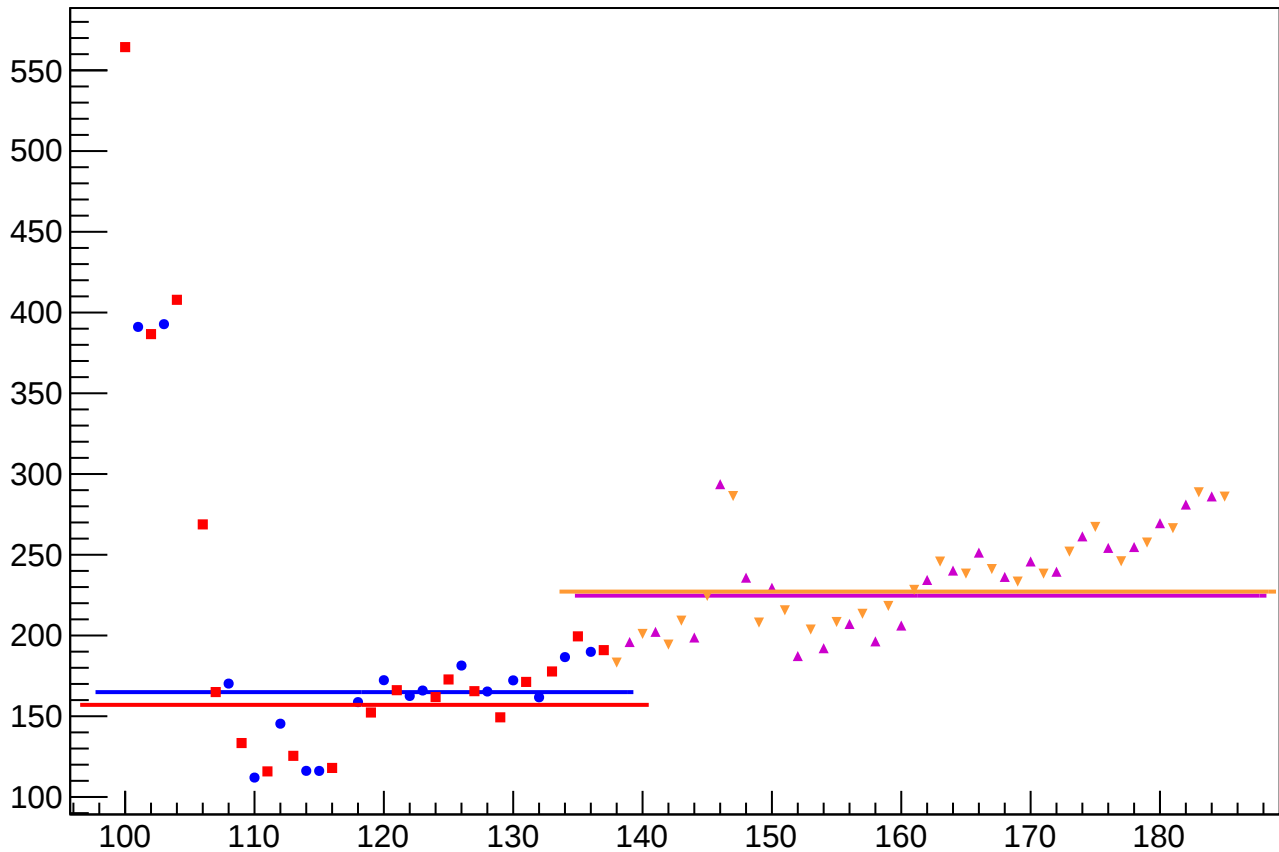
Out: 140597.435 $\pm$ 0.041

χ^2 /NDF: 1207844727.1/4

All: 140566.268 $\pm$ 0.030

χ^2 /NDF: 208833389

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.938 $\pm$ 0.048 χ^2 /NDF: 1064403.1/16

Left Out: 227.193 $\pm$ 0.038 χ^2 /NDF: 486286.9/24

Right Out: 157.047 $\pm$ 0.045 χ^2 /NDF: 1242666.6/18

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.964 $\pm$ 0.027 χ^2 /NDF: 1066776.7/47

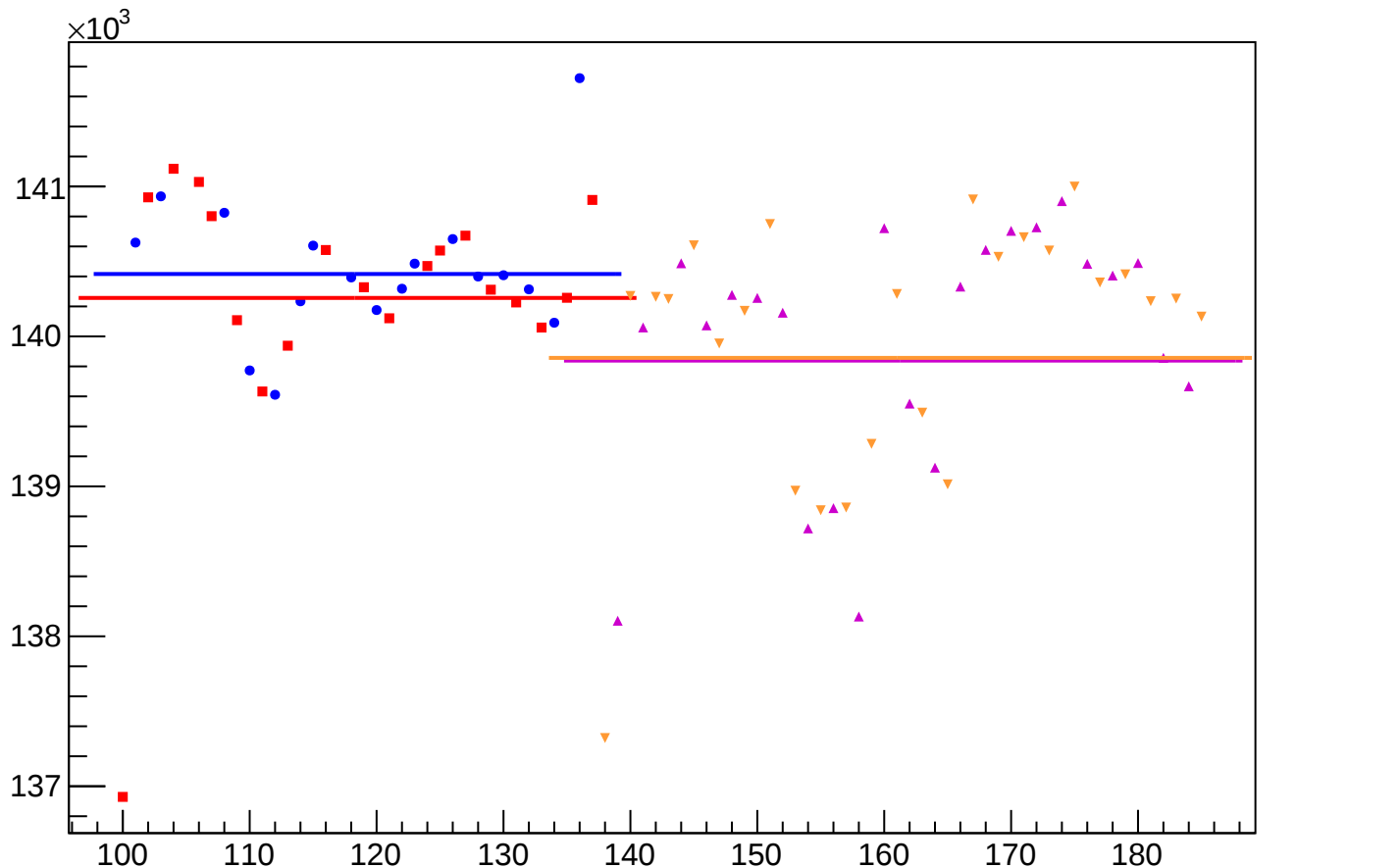
Right: 160.701 $\pm$ 0.033 χ^2 /NDF: 2321561.9/35

In: 201.068 $\pm$ 0.030 χ^2 /NDF: 2578649.8/39

Out: 197.617 $\pm$ 0.029 χ^2 /NDF: 3159572.9/43

All: 199.271 $\pm$ 0.021 χ^2 /NDF: 5745026.4/83

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.183 ± 0.069 $\chi^2/\text{NDF}: 69956735.1/16$

Left Out: 139856.721 ± 0.051 $\chi^2/\text{NDF}: 329720381.8/24$

Right Out: 140256.621 ± 0.063 $\chi^2/\text{NDF}: 38038769.4/18$

Left In: 139838.724 ± 0.053 $\chi^2/\text{NDF}: 279573689.3/22$

Left: 139847.979 ± 0.037 $\chi^2/\text{NDF}: 609353821.3/41$

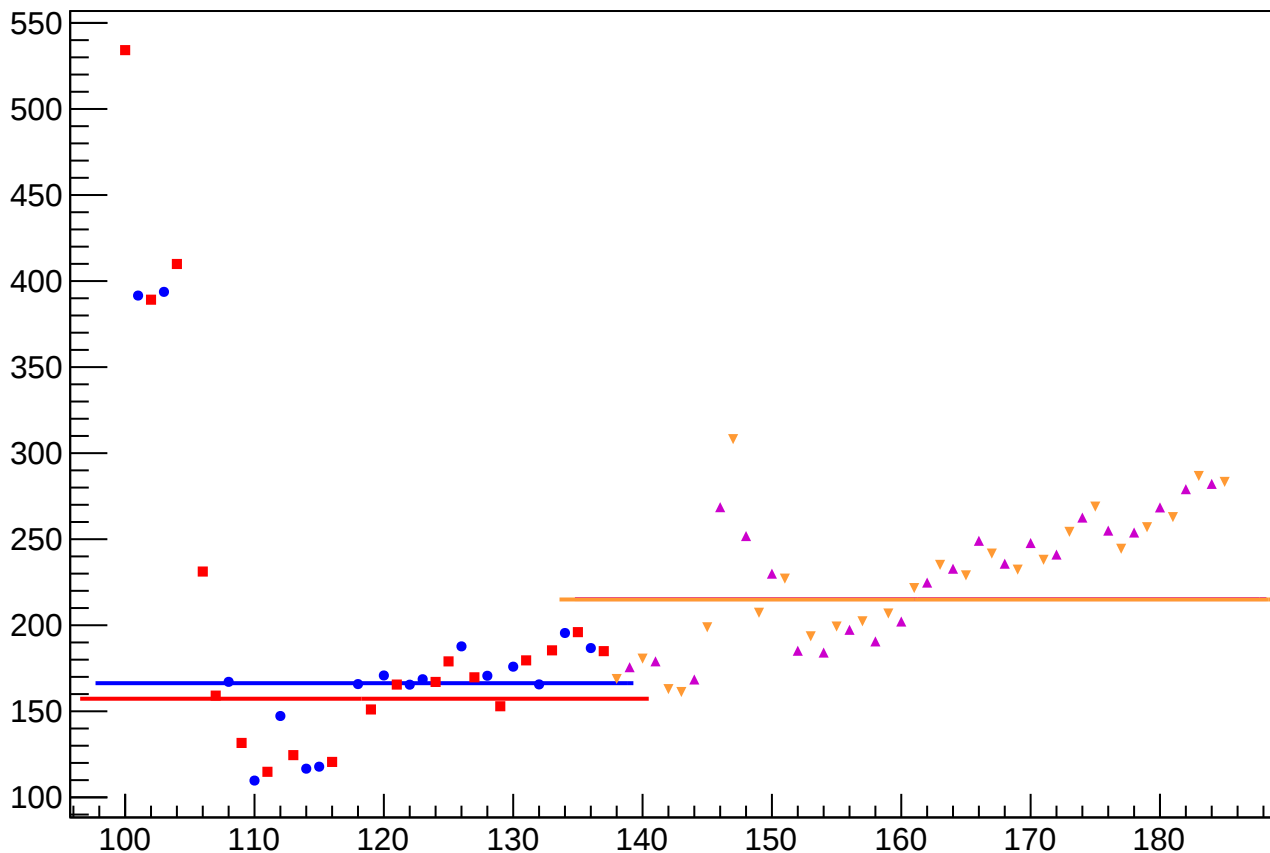
Right: 140329.953 ± 0.046 $\chi^2/\text{NDF}: 110927465.2/31$

In: 140053.921 ± 0.042 $\chi^2/\text{NDF}: 394107526.7/39$

Out: 140015.679 ± 0.040 $\chi^2/\text{NDF}: 391902378.9/43$

All: 140033.869 ± 0.029 $\chi^2/\text{NDF}: 786448390.1/100$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.338 $\pm$ 0.048 χ^2 /NDF: 1081005.6/16

Left Out: 214.973 $\pm$ 0.036 χ^2 /NDF: 974785.8/24

Right Out: 157.302 $\pm$ 0.045 χ^2 /NDF: 1226210.5/18

Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

Left: 215.094 $\pm$ 0.026 χ^2 /NDF: 1856753.8/47

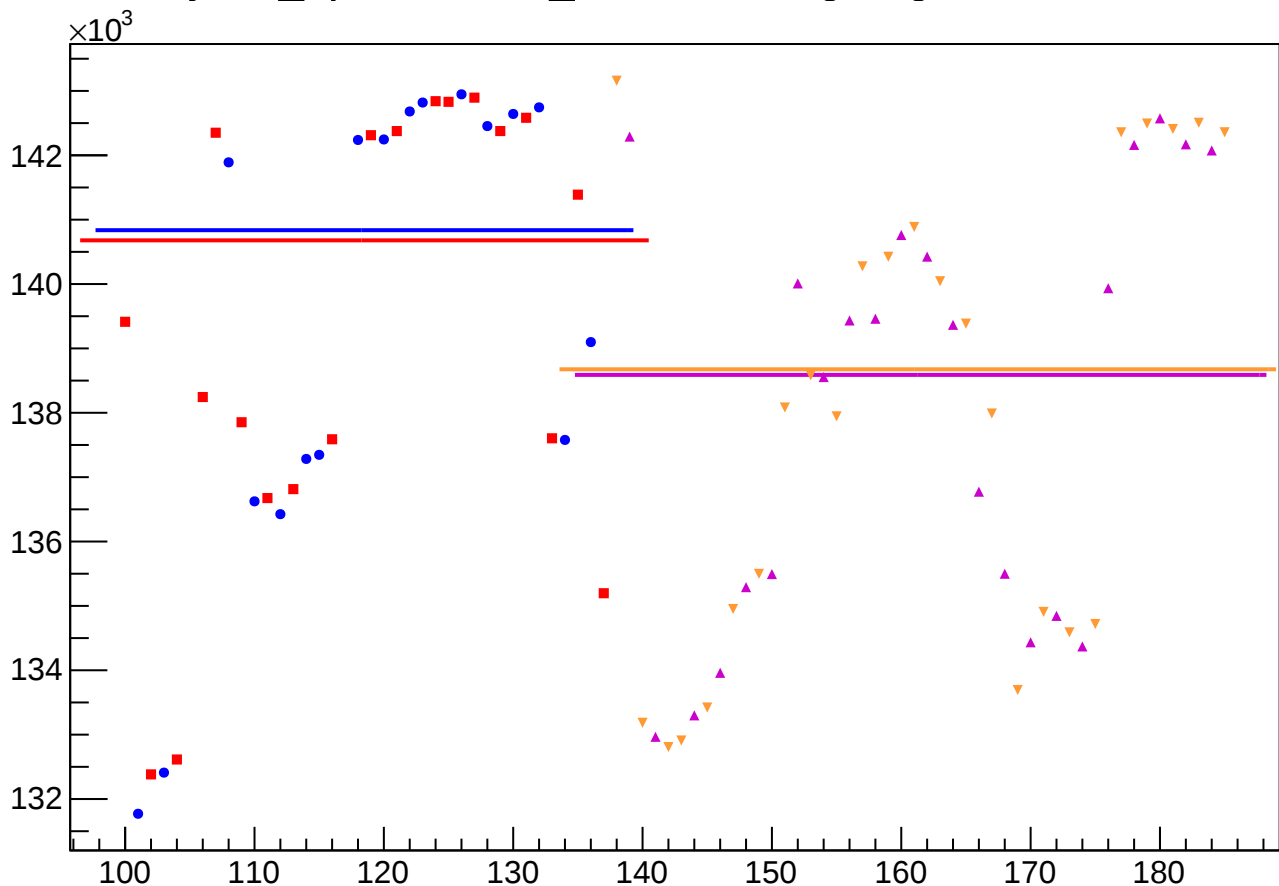
Right: 161.455 $\pm$ 0.033 χ^2 /NDF: 2326018.0/35

In: 197.004 $\pm$ 0.030 χ^2 /NDF: 2601853.3/39

Out: 192.049 $\pm$ 0.028 χ^2 /NDF: 3205205.1/43

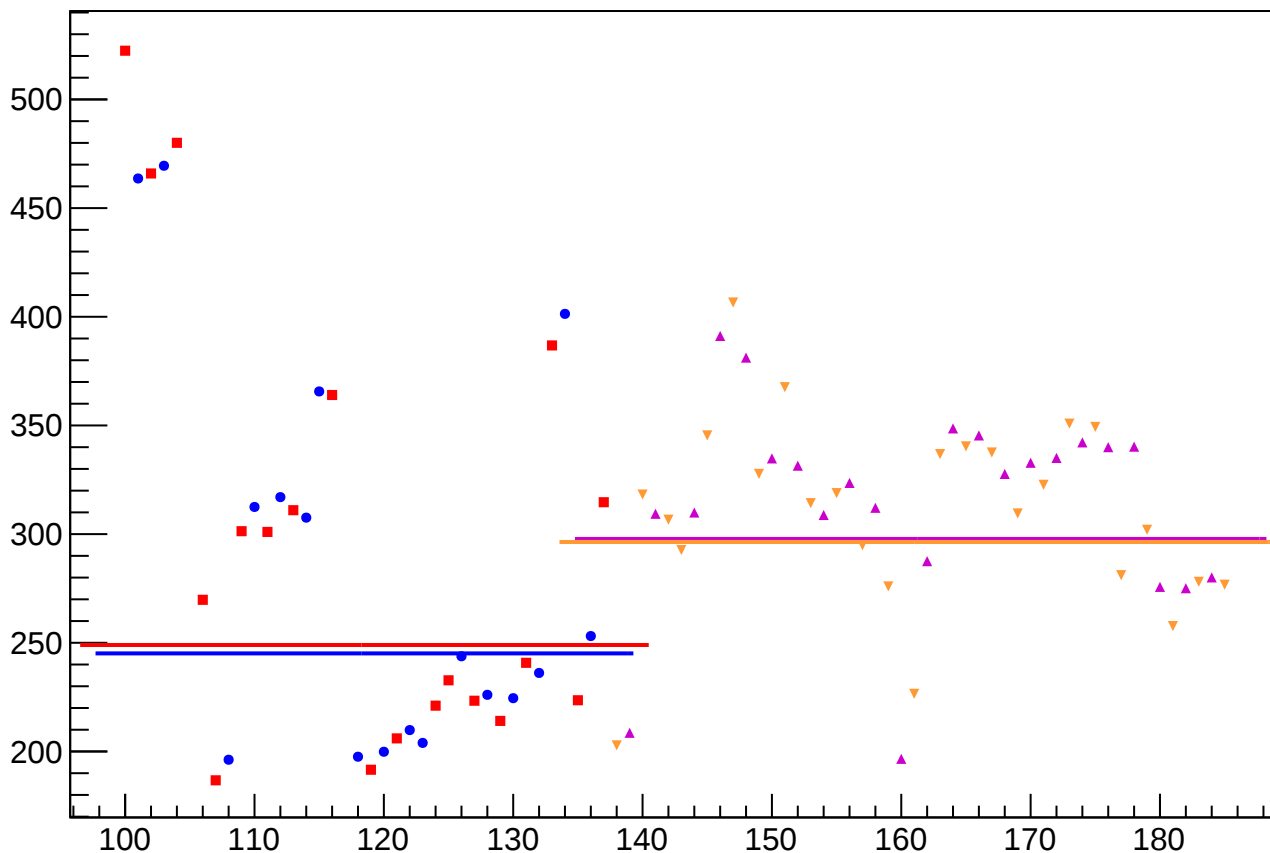
All: 194.406 $\pm$ 0.020 χ^2 /NDF: 5821785.0/83

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140836.633 $\pm$ 0.100 χ^2 /NDF: 821253018.3/16
 Left Out: 138675.586 $\pm$ 0.071 χ^2 /NDF: 2511782659.7/24
 Right Out: 140678.692 $\pm$ 0.099 χ^2 /NDF: 840853098.4/18
 Left In: 138588.711 $\pm$ 0.074 χ^2 /NDF: 1948065195.1/22
 Left: 138633.718 $\pm$ 0.051 χ^2 /NDF: 4460568438.7/4
 Right: 140756.822 $\pm$ 0.070 χ^2 /NDF: 1663362290.3/3
 In: 139377.637 $\pm$ 0.059 χ^2 /NDF: 3096150778.3/39
 Out: 139355.494 $\pm$ 0.058 χ^2 /NDF: 3622445987.4/4
 All: 139366.263 $\pm$ 0.041 χ^2 /NDF: 671866827

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.117+/-0.071 χ^2/NDF : 868050.1/16

Left Out: 296.384+/-0.050 χ^2/NDF : 893593.2/24

Right Out: 248.984+/-0.070 χ^2/NDF : 1011335.0/18

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.054+/-0.036 χ^2/NDF : 1955452.1/47

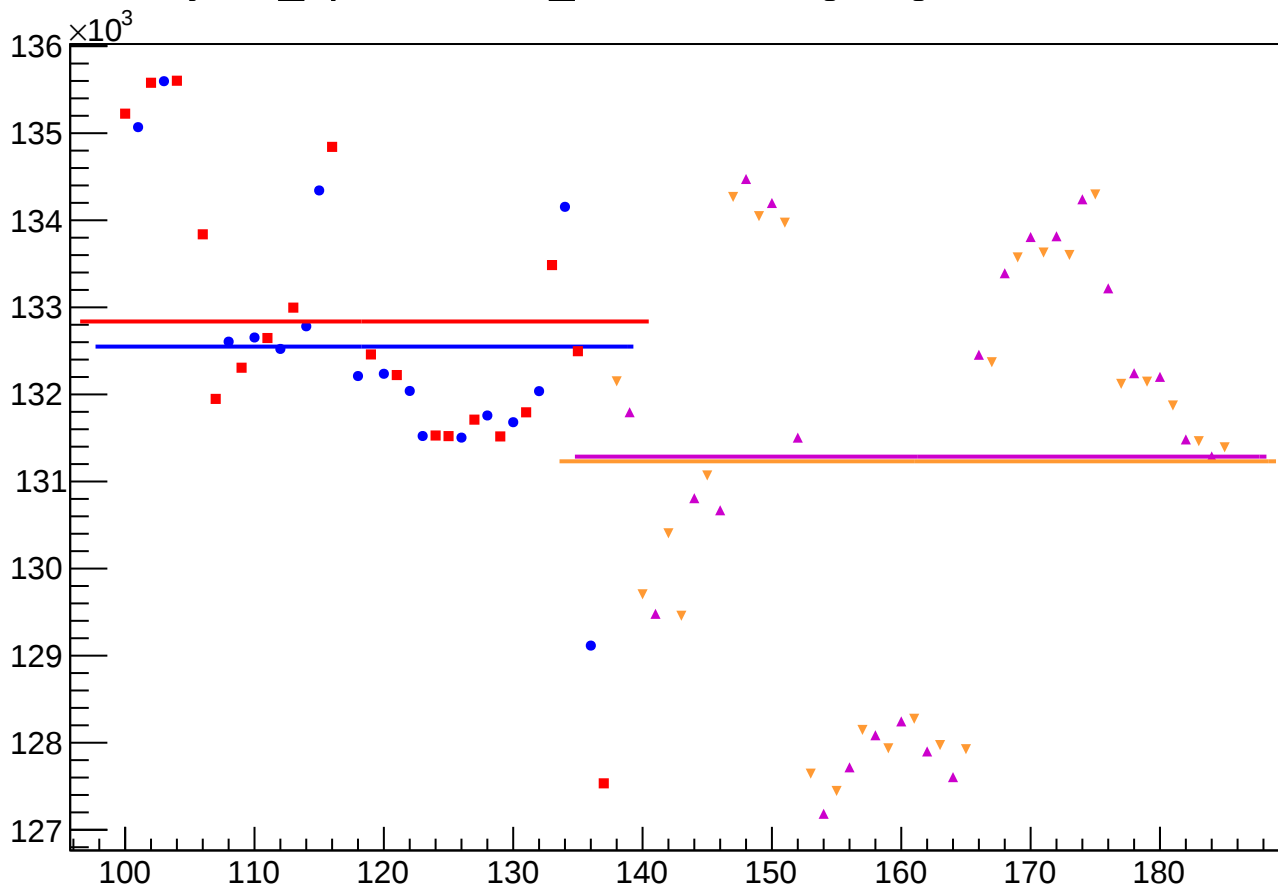
Right: 247.071+/-0.050 χ^2/NDF : 1880891.1/35

In: 279.294+/-0.042 χ^2/NDF : 2288225.9/39

Out: 280.295+/-0.041 χ^2/NDF : 2207087.6/43

All: 279.808+/-0.029 χ^2/NDF : 4495605.7/83

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132549.335+/-0.120

χ^2/NDF : 161038742.0/16

Left: 131257.235+/-0.047

χ^2/NDF : 2223305978.2/4

Right: 132709.457+/-0.080

χ^2/NDF : 313937187.2/3

Left Out: 131231.827+/-0.065

χ^2/NDF : 1166746747.0/24

Right Out: 132837.715+/-0.107

χ^2/NDF : 149672642.4/18

In: 131596.469+/-0.059

χ^2/NDF : 1301391788.9/39

Out: 131660.825+/-0.055

χ^2/NDF : 1481249746.3/4

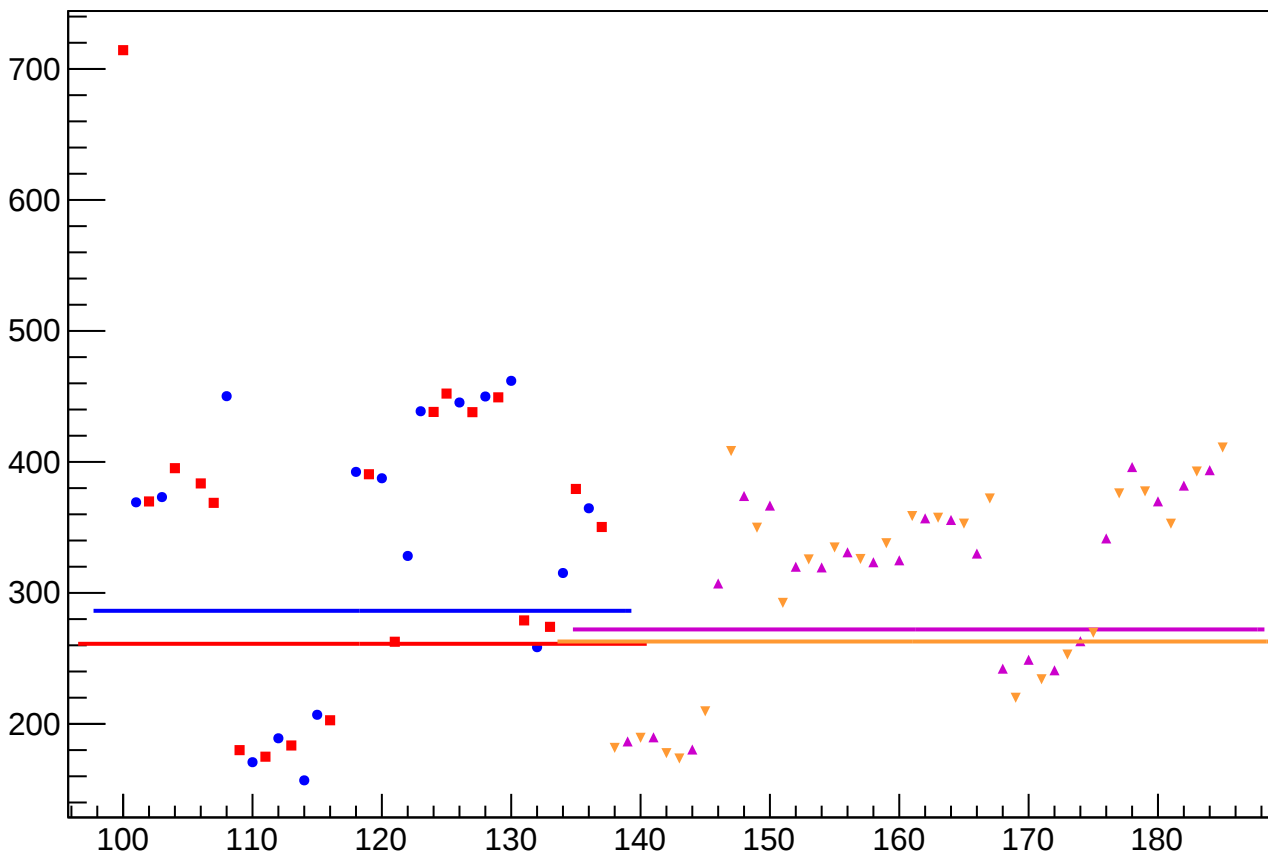
Left In: 131285.623+/-0.068

χ^2/NDF : 1056232192.1/22

All: 131630.885+/-0.040

χ^2/NDF : 278327059.2/22

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.338 $\pm$ 0.085 χ^2 /NDF: 1514049.7/16

Left Out: 262.902 $\pm$ 0.046 χ^2 /NDF: 2799937.1/24

Right Out: 261.146 $\pm$ 0.076 χ^2 /NDF: 1614381.3/18

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF: 2221925.0/22

Left: 267.253 $\pm$ 0.033 χ^2 /NDF: 5041042.7/47

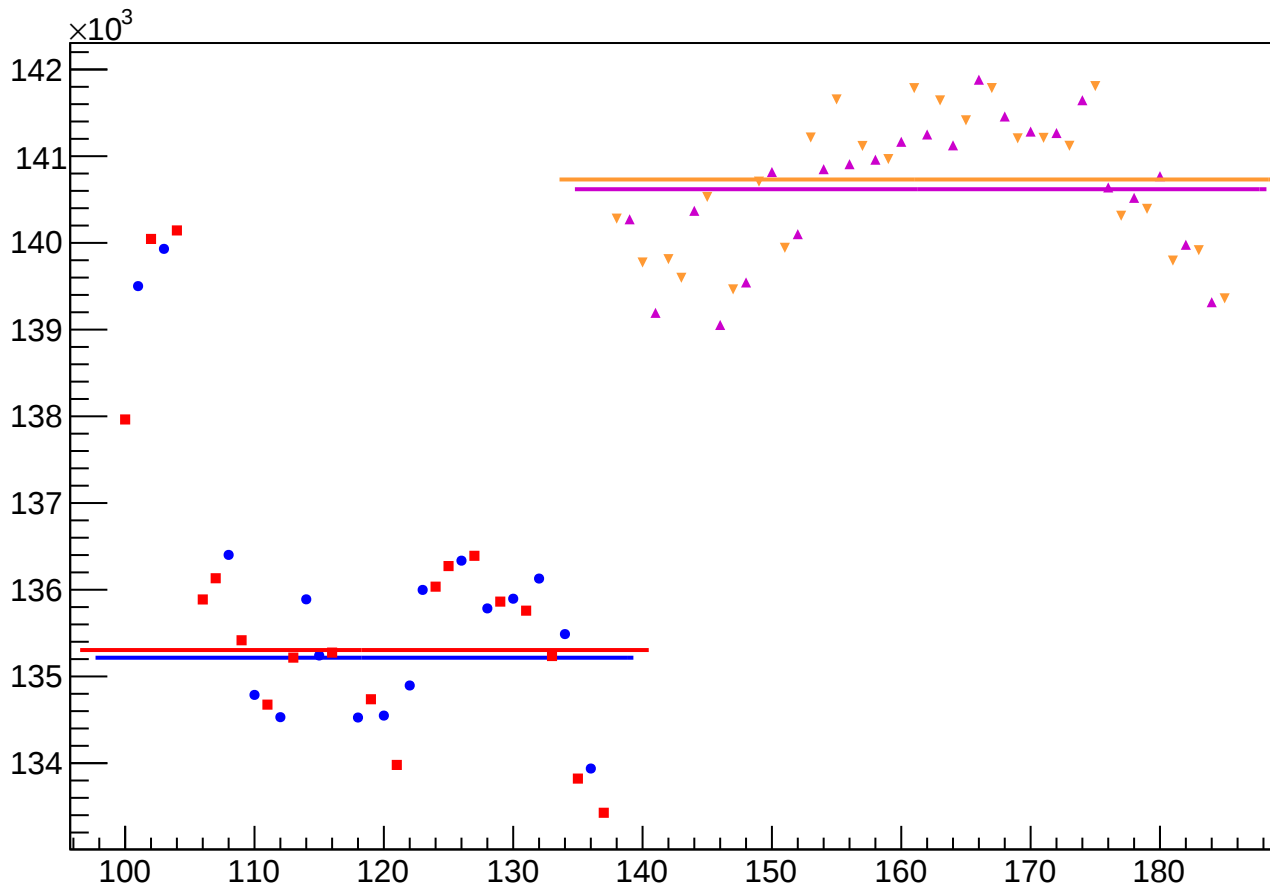
Right: 272.350 $\pm$ 0.056 χ^2 /NDF: 3177662.4/35

In: 275.613 $\pm$ 0.042 χ^2 /NDF: 3757286.3/39

Out: 262.433 $\pm$ 0.039 χ^2 /NDF: 4414712.6/43

All: 268.565 $\pm$ 0.029 χ^2 /NDF: 8224766.1/83

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.054 $\pm$ 0.054

χ^2/NDF : 371419425.6/16

Left Out: 140731.290 $\pm$ 0.049

χ^2/NDF : 242182276.9/24

Right Out: 135304.602 $\pm$ 0.051

χ^2/NDF : 357443836.5/18

Left In: 140619.038 $\pm$ 0.051

χ^2/NDF : 200370178.0/22

Left: 140677.976 $\pm$ 0.035

χ^2/NDF : 445087588.2/47

Right: 135263.073 $\pm$ 0.037

χ^2/NDF : 730268475.9/3

In: 138088.716 $\pm$ 0.037

χ^2/NDF : 5810383221.8/39

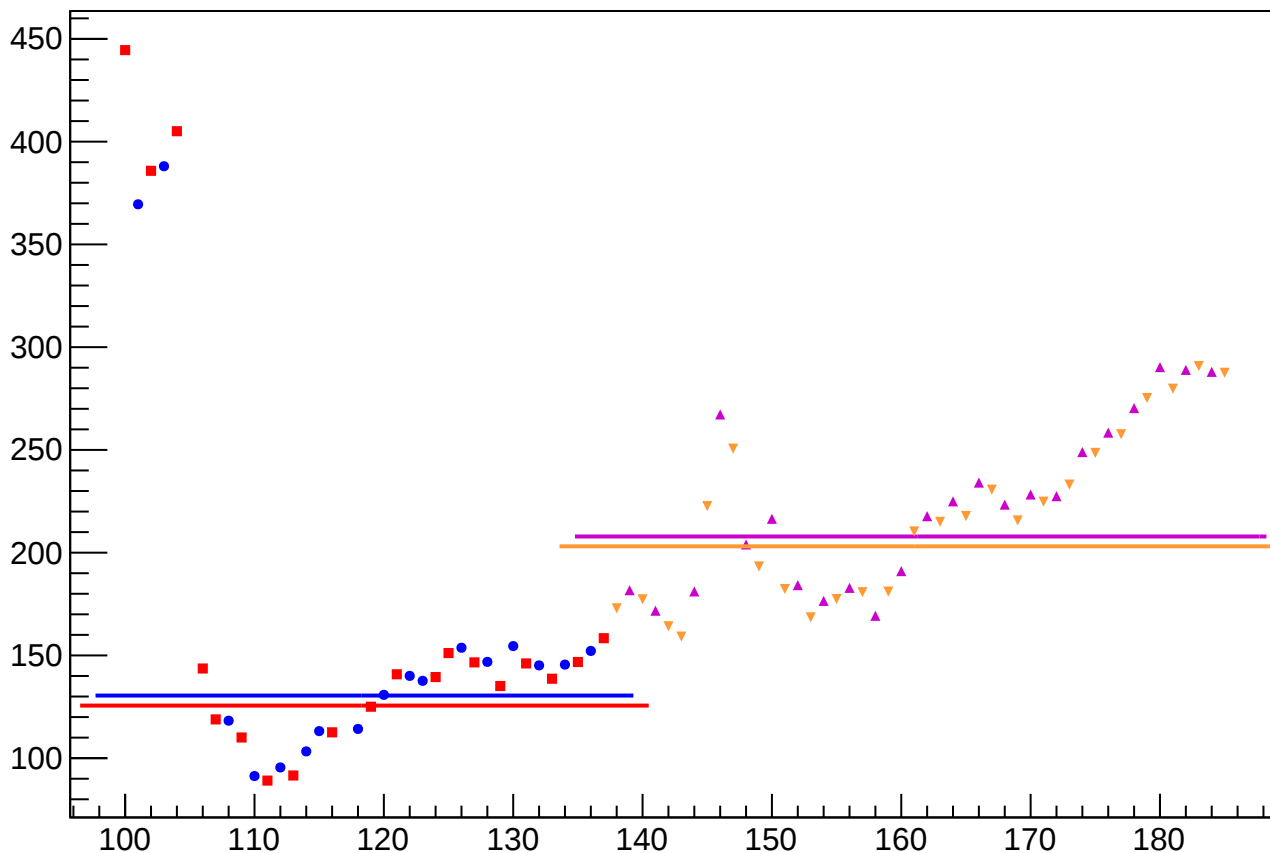
Out: 138157.650 $\pm$ 0.035

χ^2/NDF : 6515899982.2/4

All: 138125.103 $\pm$ 0.026

χ^2/NDF : 123280909

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.478+/-0.038 χ^2/NDF : 1372969.9/16

Left Out: 203.089+/-0.034 χ^2/NDF : 1050946.0/24

Right Out: 125.594+/-0.036 χ^2/NDF : 1434855.8/18

Left In: 207.872+/-0.036 χ^2/NDF : 949200.3/22

Left: 205.360+/-0.025 χ^2/NDF : 2009353.0/47

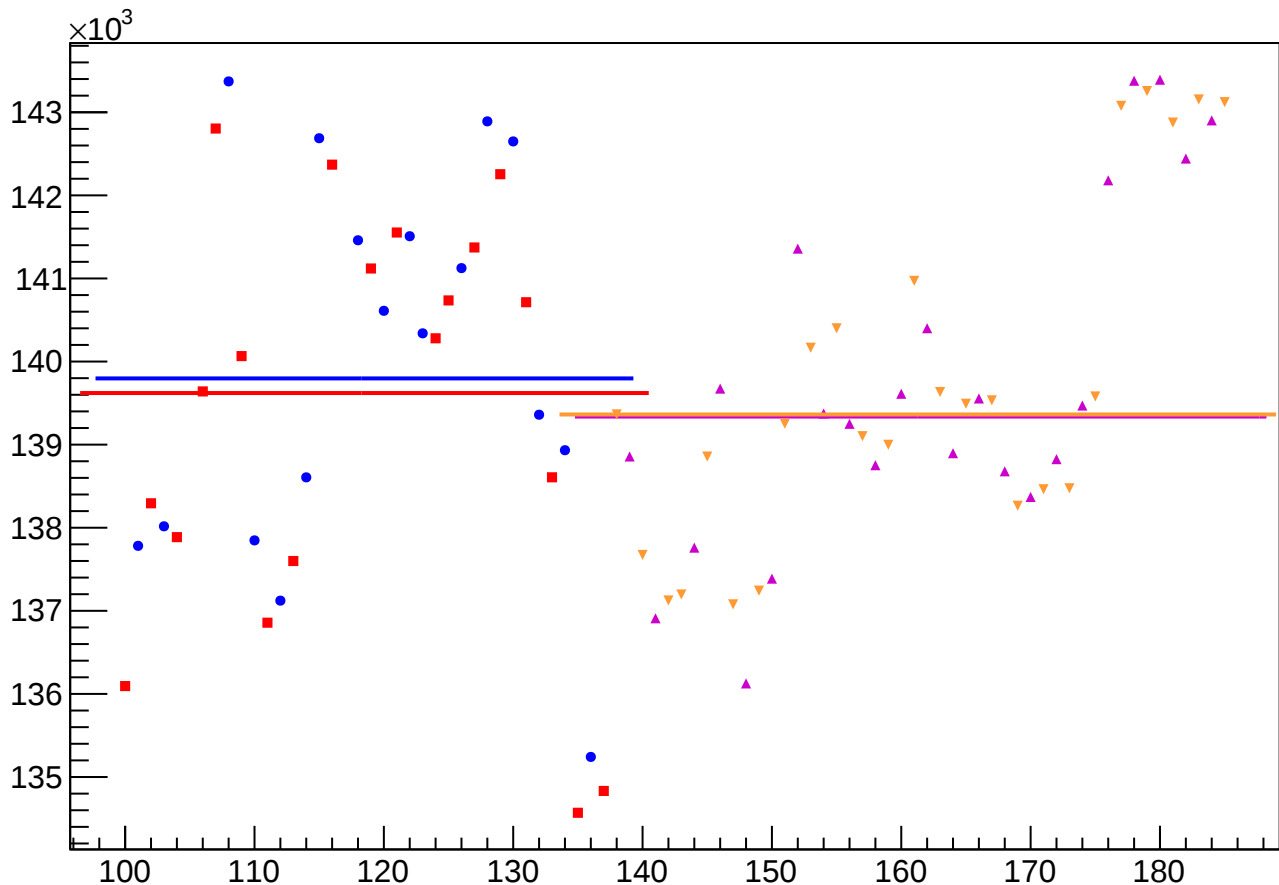
Right: 127.885+/-0.026 χ^2/NDF : 2816373.3/35

In: 171.627+/-0.026 χ^2/NDF : 4471954.2/39

Out: 166.336+/-0.025 χ^2/NDF : 4898745.4/43

All: 168.834+/-0.018 χ^2/NDF : 9391993.1/83

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139796.979 $\pm$ 0.062

χ^2 /NDF: 1668151198.8/16

Left: 139350.820 $\pm$ 0.035

χ^2 /NDF: 2547210209.9/4

Right: 139704.736 $\pm$ 0.043

χ^2 /NDF: 3176880475.6/4

Left Out: 139362.920 $\pm$ 0.049

χ^2 /NDF: 1254080797.8/24

Right Out: 139621.197 $\pm$ 0.059

χ^2 /NDF: 1504518858.4/18

In: 139522.252 $\pm$ 0.039

χ^2 /NDF: 2993906683.4/39

Out: 139468.603 $\pm$ 0.038

χ^2 /NDF: 2769899638.3/4

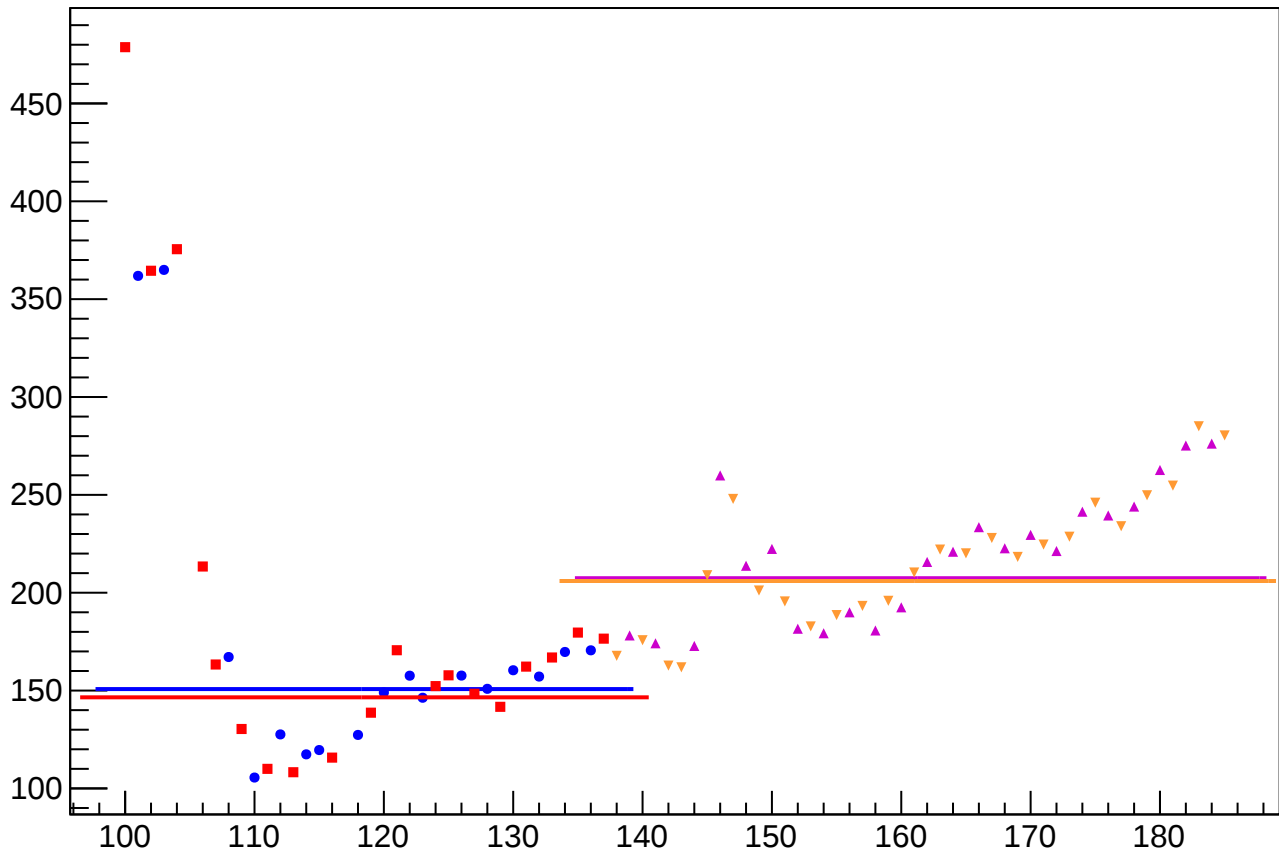
Left In: 139337.874 $\pm$ 0.051

χ^2 /NDF: 1293003954.9/22

All: 139494.350 $\pm$ 0.027

χ^2 /NDF: 576477423.3/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.766 $\pm$ 0.044 χ^2 /NDF: 1050110.5/16

Left Out: 205.987 $\pm$ 0.035 χ^2 /NDF: 737668.3/24

Right Out: 146.546 $\pm$ 0.042 χ^2 /NDF: 1200776.5/18

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.678 $\pm$ 0.025 χ^2 /NDF: 1440440.3/47

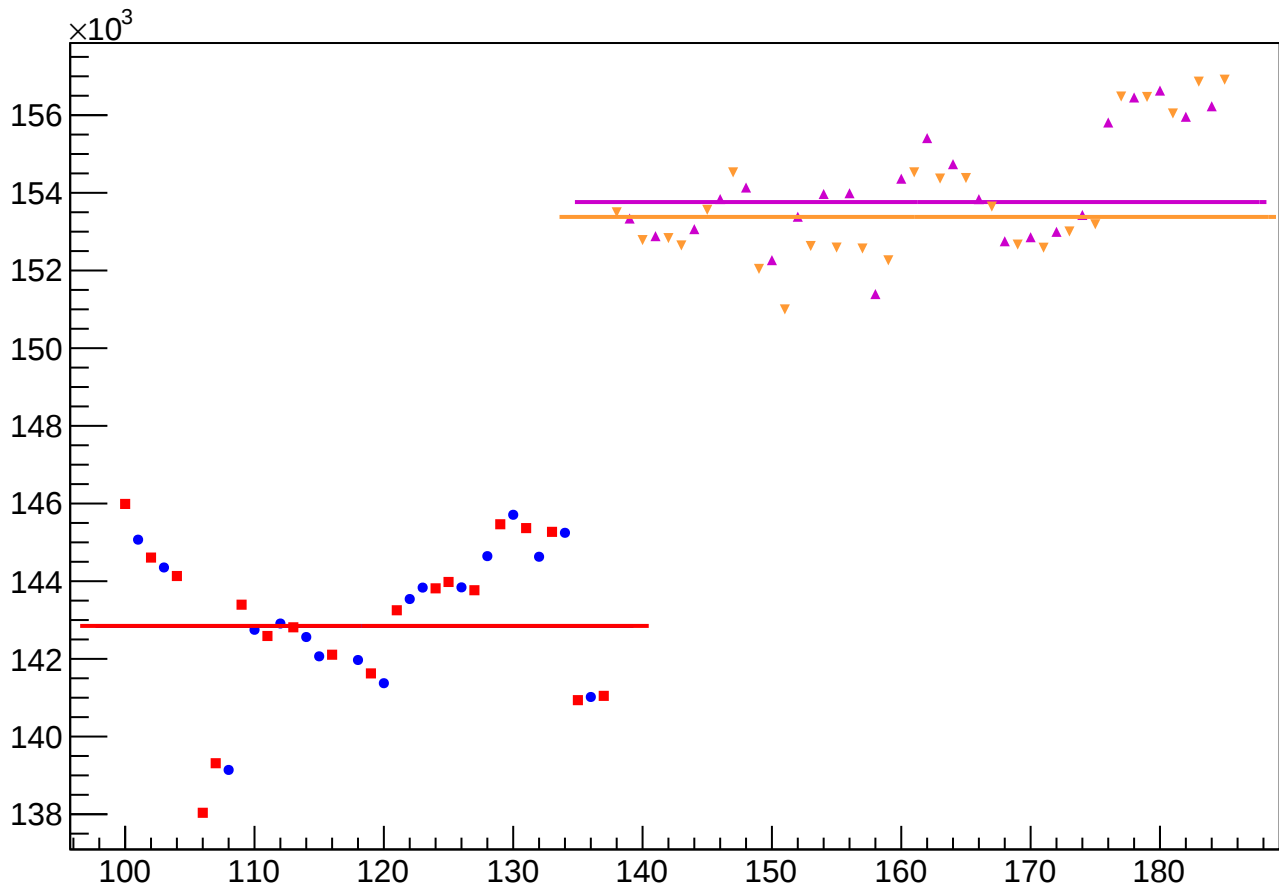
Right: 148.551 $\pm$ 0.030 χ^2 /NDF: 2255741.1/35

In: 184.665 $\pm$ 0.028 χ^2 /NDF: 2749396.1/39

Out: 181.665 $\pm$ 0.027 χ^2 /NDF: 3135512.3/43

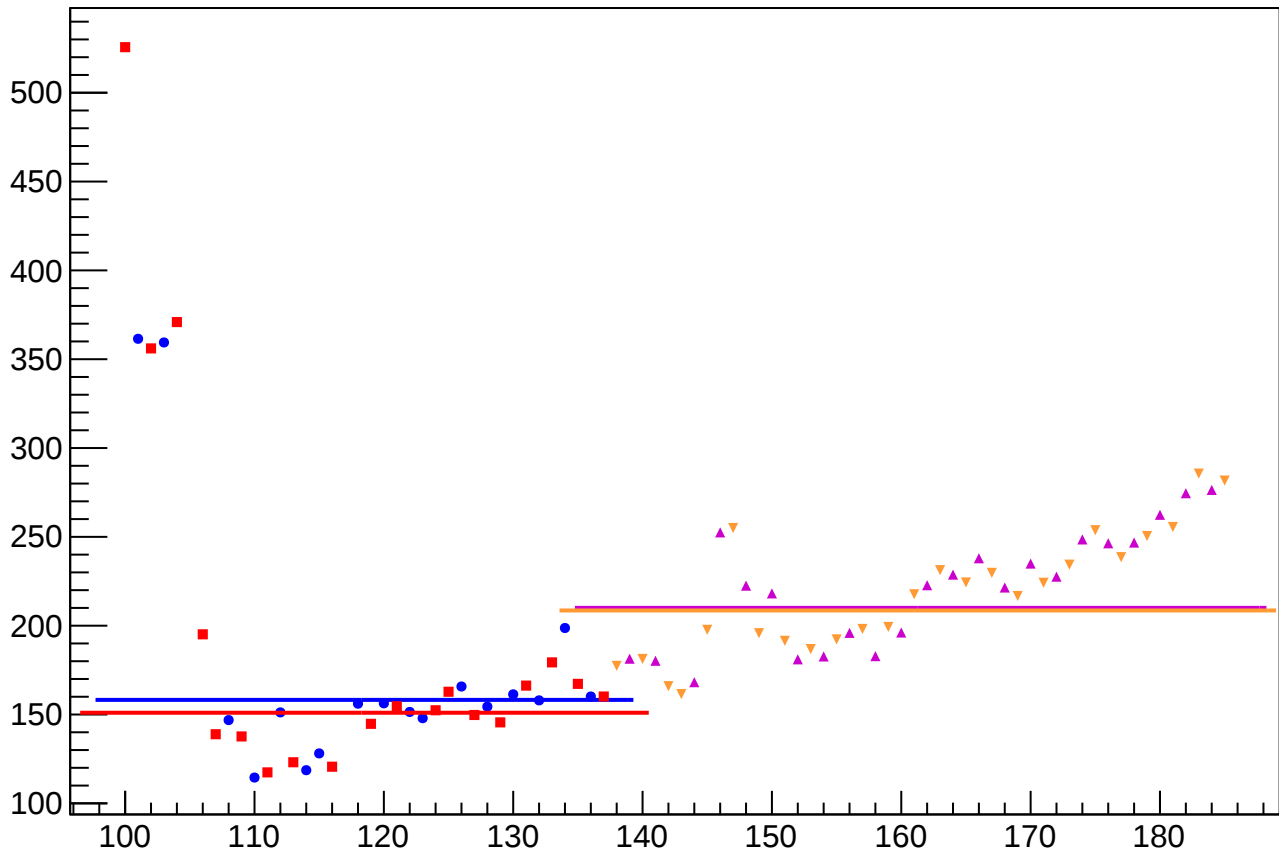
All: 183.105 $\pm$ 0.019 χ^2 /NDF: 5890963.9/83

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142846.769 $\pm$ 0.065	χ^2/NDF : 735751313.8/16	Left: 153564.420 $\pm$ 0.036	χ^2/NDF : 1466221013.6/16
Left Out: 153379.581 $\pm$ 0.050	χ^2/NDF : 802505892.0/24	Right: 142847.777 $\pm$ 0.044	χ^2/NDF : 1585493619.2/24
Right Out: 142848.653 $\pm$ 0.060	χ^2/NDF : 849741852.9/18	In: 149540.932 $\pm$ 0.040	χ^2/NDF : 18781016731.6/36
Left In: 153762.419 $\pm$ 0.051	χ^2/NDF : 635075685.0/22	Out: 149128.311 $\pm$ 0.038	χ^2/NDF : 19771488884.2/22
		All: 149324.643 $\pm$ 0.028	χ^2/NDF : 386074885.0/40

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.235+/-0.046 χ^2/NDF : 883619.5/16

Left Out: 208.573+/-0.035 χ^2/NDF : 723104.0/24

Right Out: 150.999+/-0.043 χ^2/NDF : 1000583.6/18

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.280+/-0.025 χ^2/NDF : 1426311.5/47

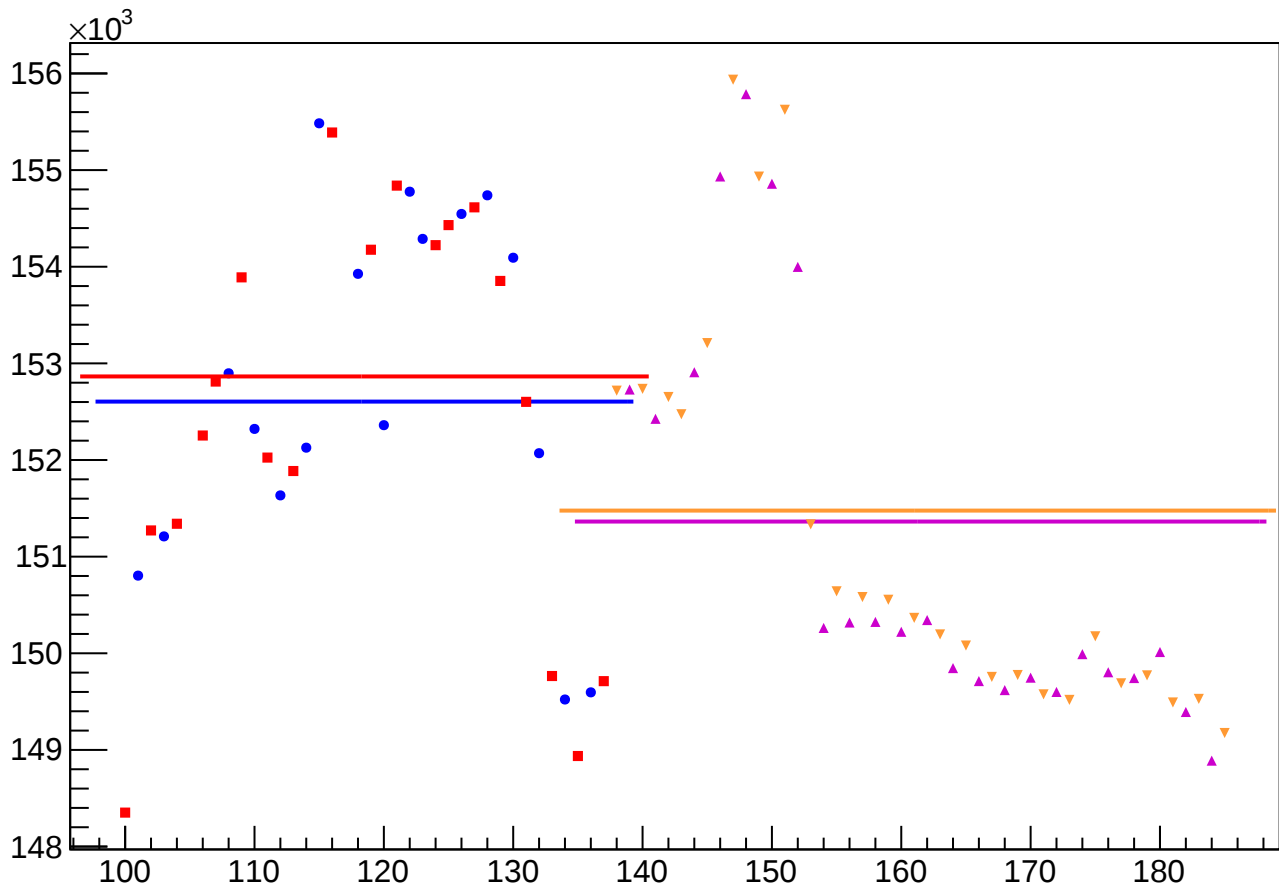
Right: 154.365+/-0.031 χ^2/NDF : 1897545.9/35

In: 190.004+/-0.028 χ^2/NDF : 2370224.6/39

Out: 185.331+/-0.027 χ^2/NDF : 2806842.7/43

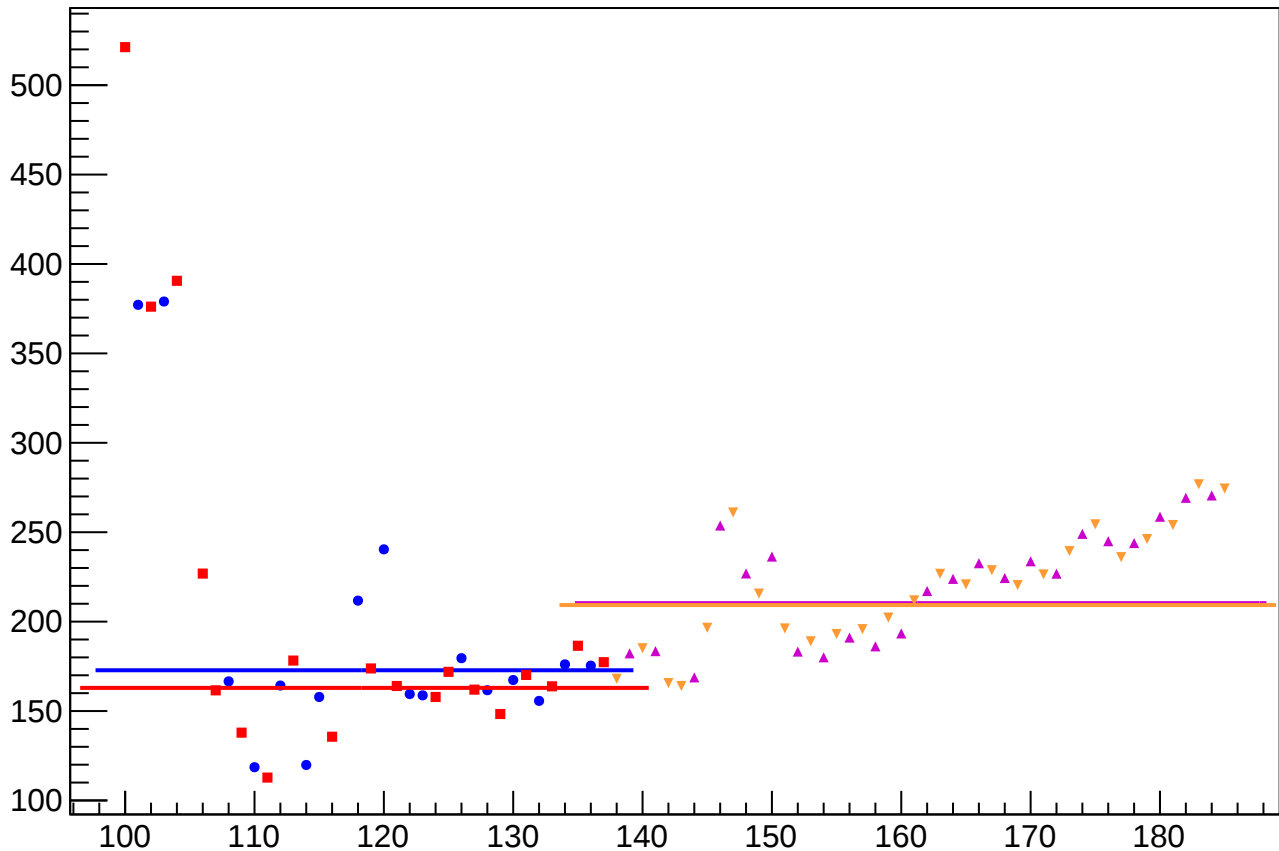
All: 187.554+/-0.020 χ^2/NDF : 5191168.0/83

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152604.406 $\pm$ 0.072 χ^2 /NDF: 616818062.6/16
 Left Out: 151476.564 $\pm$ 0.050 χ^2 /NDF: 1478942160.3/24
 Right Out: 152864.722 $\pm$ 0.066 χ^2 /NDF: 718455566.6/18
 Left In: 151363.165 $\pm$ 0.051 χ^2 /NDF: 1421662089.0/22
 Left: 151421.755 $\pm$ 0.036 χ^2 /NDF: 2903118968.4/4
 Right: 152745.876 $\pm$ 0.049 χ^2 /NDF: 1342324437.7/4
 In: 151780.124 $\pm$ 0.042 χ^2 /NDF: 2234367266.4/39
 Out: 151976.746 $\pm$ 0.040 χ^2 /NDF: 2478324619.6/4
 All: 151883.549 $\pm$ 0.029 χ^2 /NDF: 472428223.0/100

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.803+/-0.051 χ^2/NDF : 945652.6/16

Left Out: 209.273+/-0.035 χ^2/NDF : 705033.8/24

Right Out: 162.951+/-0.047 χ^2/NDF : 1032146.9/18

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.791+/-0.025 χ^2/NDF : 1383230.9/47

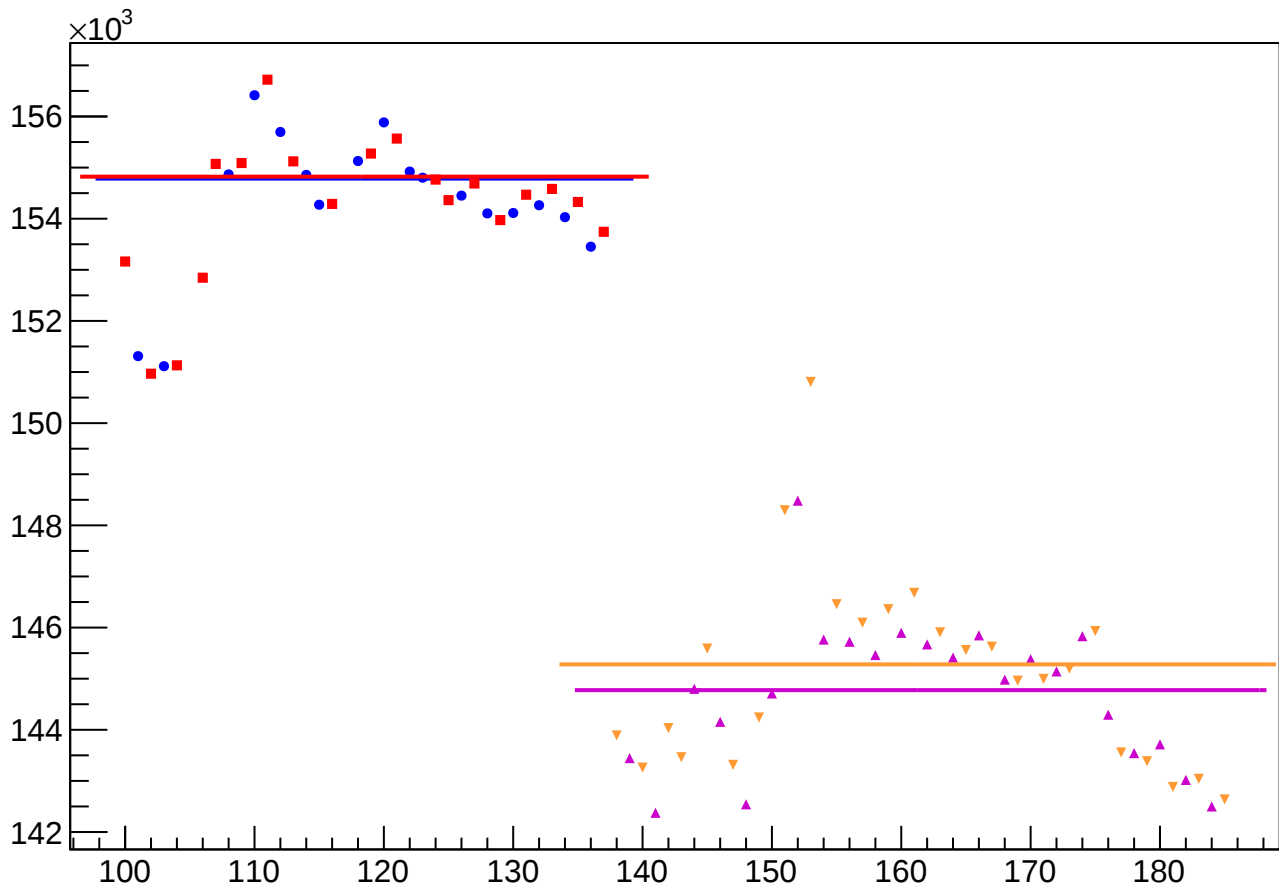
Right: 167.449+/-0.035 χ^2/NDF : 1997996.2/35

In: 197.734+/-0.030 χ^2/NDF : 1981790.5/39

Out: 192.582+/-0.028 χ^2/NDF : 2362802.7/43

All: 195.024+/-0.020 χ^2/NDF : 4360504.9/83

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154784.970 $\pm$ 0.065 χ^2 /NDF: 265445259.7/16

Left Out: 145279.903 $\pm$ 0.048 χ^2 /NDF: 1707147802.2/24

Right Out: 154822.442 $\pm$ 0.061 χ^2 /NDF: 293784821.8/18

Left In: 144776.016 $\pm$ 0.050 χ^2 /NDF: 918120275.4/22

Left: 145038.292 $\pm$ 0.034 χ^2 /NDF: 2679074258.3/4

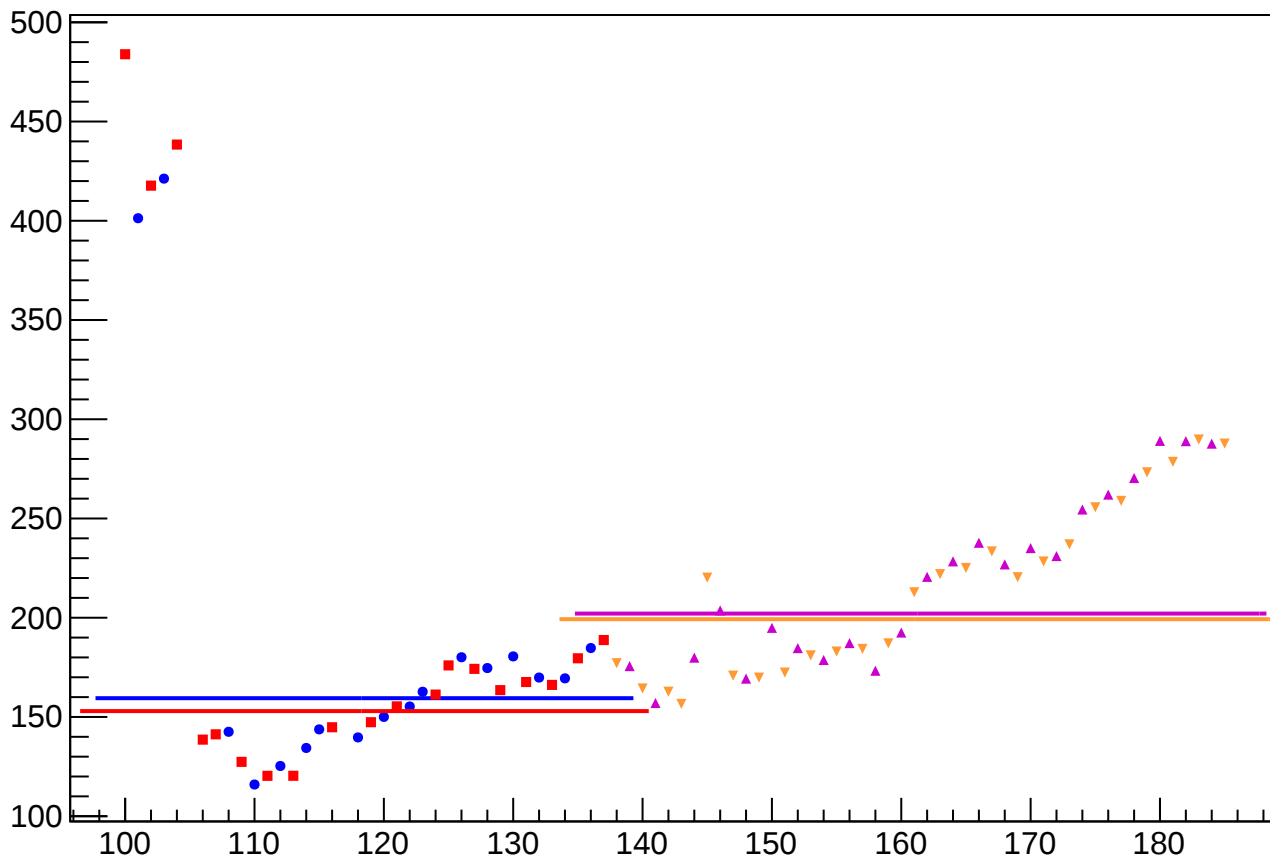
Right: 154805.060 $\pm$ 0.045 χ^2 /NDF: 559405704.7/3

In: 148421.862 $\pm$ 0.040 χ^2 /NDF: 16040471681.5/3

Out: 148895.646 $\pm$ 0.037 χ^2 /NDF: 17250048222.4

All: 148671.224 $\pm$ 0.027 χ^2 /NDF: 333661810

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.460 $\pm$ 0.046 χ^2/NDF : 1131650.0/16

Left Out: 199.263 $\pm$ 0.034 χ^2/NDF :1151046.4/24

Right Out: 152.961 $\pm$ 0.043 χ^2/NDF : 1169783.0/18

Left In: 202.090 $\pm$ 0.035 χ^2/NDF :1057833.2/22

Left: 200.619 $\pm$ 0.024 χ^2/NDF : 2212268.1/47

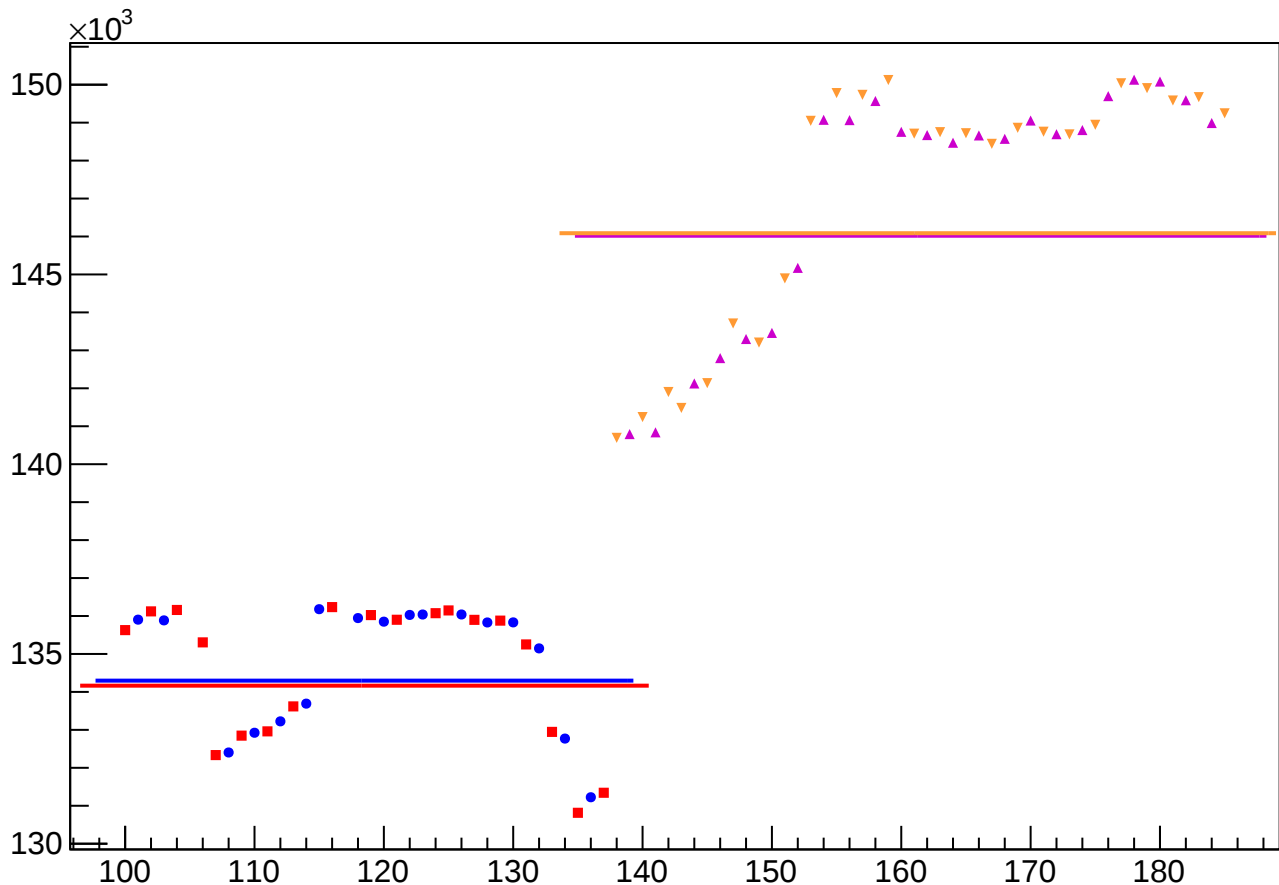
Right: 155.976 $\pm$ 0.032 χ^2/NDF : 2311995.9/35

In: 186.562 $\pm$ 0.028 χ^2/NDF :2728526.1/39

Out: 181.719 $\pm$ 0.027 χ^2/NDF :3038848.3/43

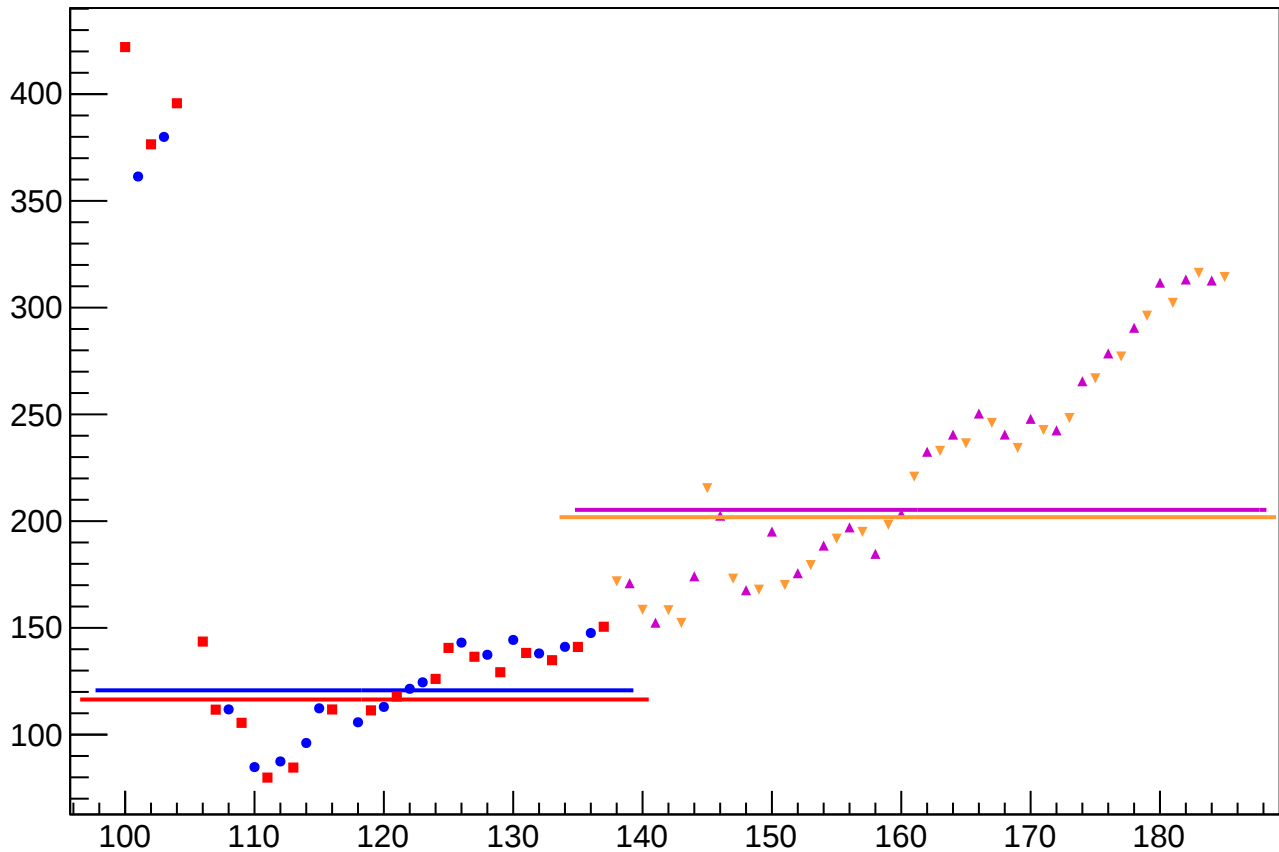
All: 184.013 $\pm$ 0.019 χ^2/NDF : 5783185.2/83

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134297.022 $\pm$ 0.050	χ^2 /NDF: 1147567257.7/16	Left: 146054.790 $\pm$ 0.035	χ^2 /NDF: 9926716457.8/4
Left Out: 146086.668 $\pm$ 0.048	χ^2 /NDF: 5334387659.0/24	Right: 134226.757 $\pm$ 0.035	χ^2 /NDF: 2361744877.8/4
Right Out: 134164.594 $\pm$ 0.047	χ^2 /NDF: 1210514088.0/18	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: 139989.728 $\pm$ 0.034	χ^2 /NDF: 37451226414.3
		All: 140055.673 $\pm$ 0.025	χ^2 /NDF: 701154123

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.752 $\pm$ 0.036 χ^2 /NDF: 1465247.5/16

Left Out: 201.842 $\pm$ 0.034 χ^2 /NDF:1585796.8/24

Right Out: 116.453 $\pm$ 0.034 χ^2 /NDF: 1535612.1/18

Left In: 205.286 $\pm$ 0.036 χ^2 /NDF:1425292.7/22

Left: 203.489 $\pm$ 0.025 χ^2 /NDF: 3015913.3/47

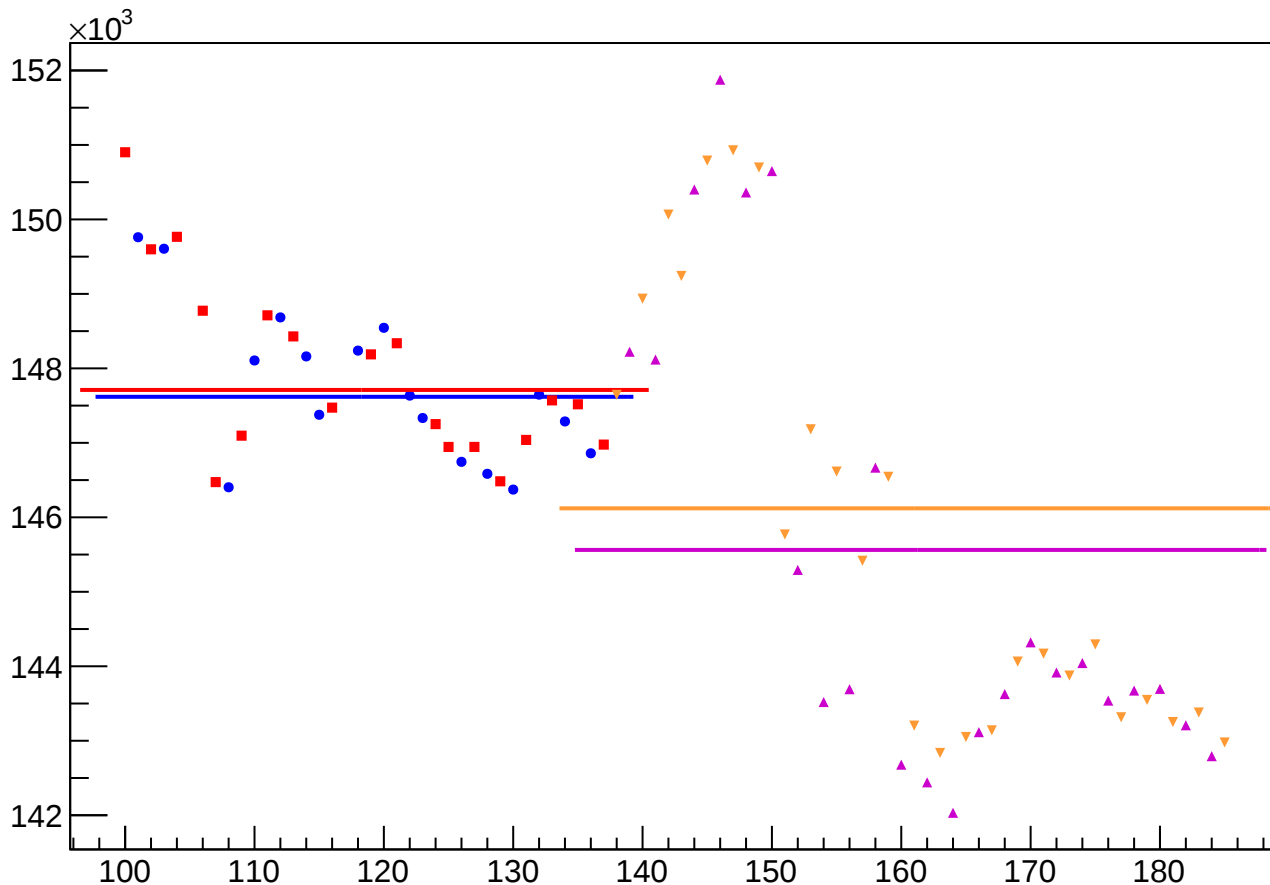
Right: 118.471 $\pm$ 0.024 χ^2 /NDF: 3008583.2/35

In: 162.806 $\pm$ 0.025 χ^2 /NDF:5689822.8/39

Out: 158.174 $\pm$ 0.024 χ^2 /NDF:6292324.4/43

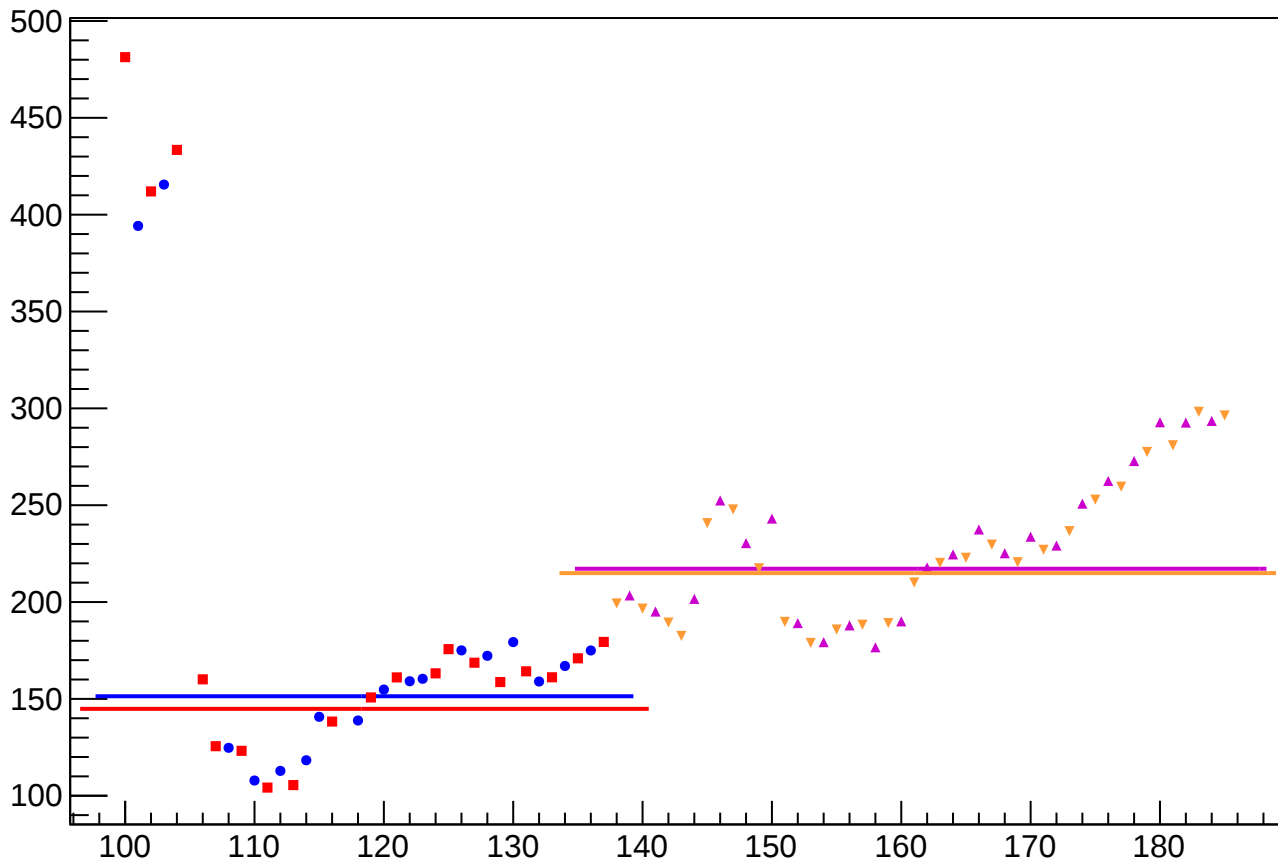
All: 160.368 $\pm$ 0.017 χ^2 /NDF: 11999836.5/83

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147618.243 $\pm$ 0.063	χ^2 /NDF: 198581777.1/16	Left: 145852.369 $\pm$ 0.037	χ^2 /NDF: 5786896836.7/4
Left Out: 146120.762 $\pm$ 0.051	χ^2 /NDF: 2674758855.2/24	Right: 147667.515 $\pm$ 0.043	χ^2 /NDF: 403454683.7/3
Right Out: 147710.334 $\pm$ 0.058	χ^2 /NDF: 203714451.2/18	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: 146810.113 $\pm$ 0.038	χ^2 /NDF: 3298870006.5/4
		All: 146626.289 $\pm$ 0.028	χ^2 /NDF: 722811973

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.363 $\pm$ 0.044 χ^2 /NDF: 1259788.8/16

Left Out: 214.932 $\pm$ 0.036 χ^2 /NDF: 732294.8/24

Right Out: 144.870 $\pm$ 0.041 χ^2 /NDF: 1371292.3/18

Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

Left: 216.024 $\pm$ 0.026 χ^2 /NDF: 1498996.0/47

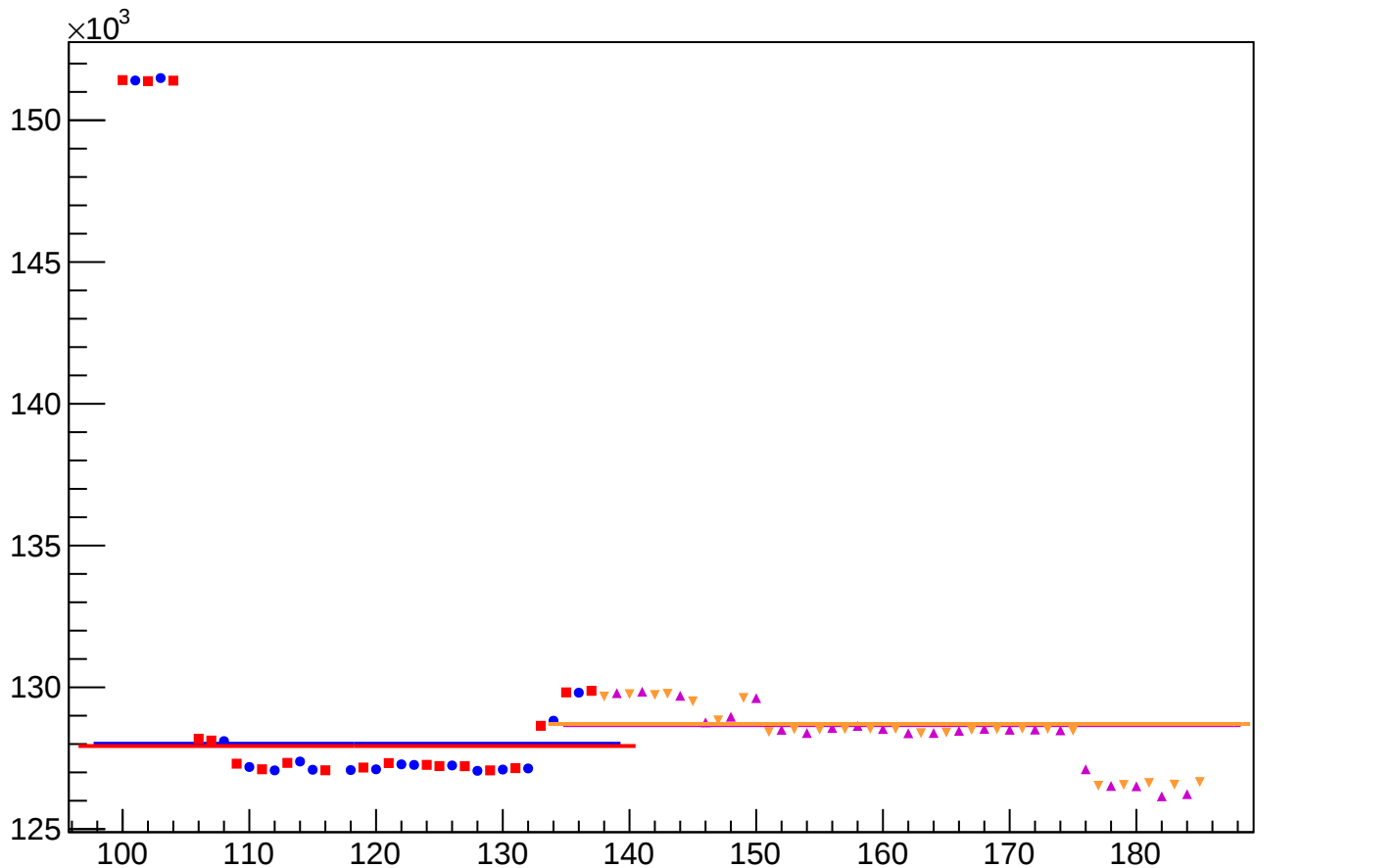
Right: 147.889 $\pm$ 0.030 χ^2 /NDF: 2642598.4/35

In: 189.665 $\pm$ 0.029 χ^2 /NDF: 3312261.9/39

Out: 184.548 $\pm$ 0.027 χ^2 /NDF: 3737004.9/43

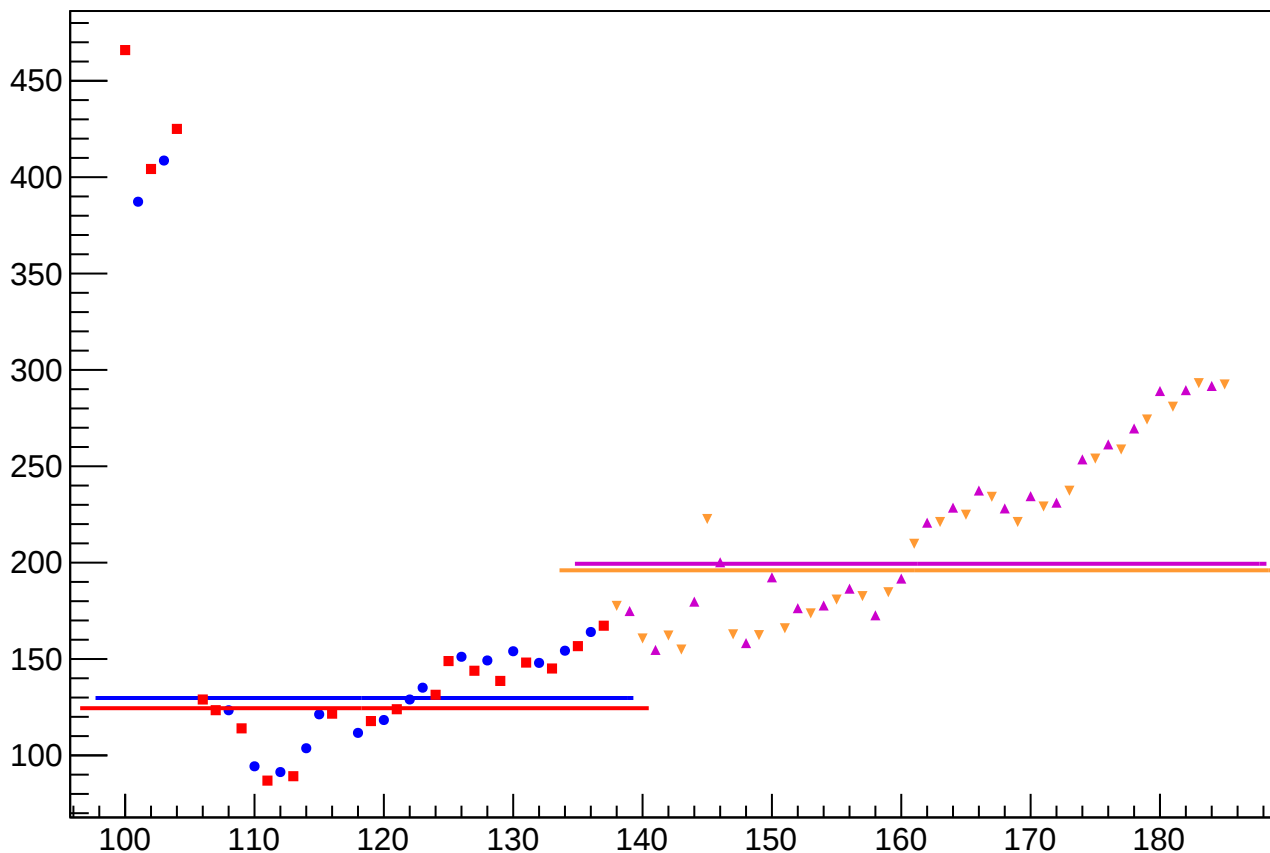
All: 186.973 $\pm$ 0.020 χ^2 /NDF: 7066078.9/83

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128009.906 $\pm$ 0.054	χ^2 /NDF: 4319099803.8/16	Left: 128687.872 $\pm$ 0.034	χ^2 /NDF: 677413381.0/47
Left Out: 128706.962 $\pm$ 0.047	χ^2 /NDF: 344006732.4/24	Right: 127967.286 $\pm$ 0.037	χ^2 /NDF: 8088326902.9/16
Right Out: 127930.465 $\pm$ 0.050	χ^2 /NDF: 3768075163.1/18	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: 128346.811 $\pm$ 0.034	χ^2 /NDF: 4239395014.5/47
		All: 128358.504 $\pm$ 0.025	χ^2 /NDF: 897266854.0/100

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.769 ± 0.038 $\chi^2/\text{NDF}: 1483741.9/16$

Left Out: 196.020 ± 0.033 $\chi^2/\text{NDF}: 1312045.6/24$

Right Out: 124.477 ± 0.036 $\chi^2/\text{NDF}: 1526276.6/18$

Left In: 199.413 ± 0.035 $\chi^2/\text{NDF}: 1165698.7/22$

Left: 197.642 ± 0.024 $\chi^2/\text{NDF}: 2482754.1/47$

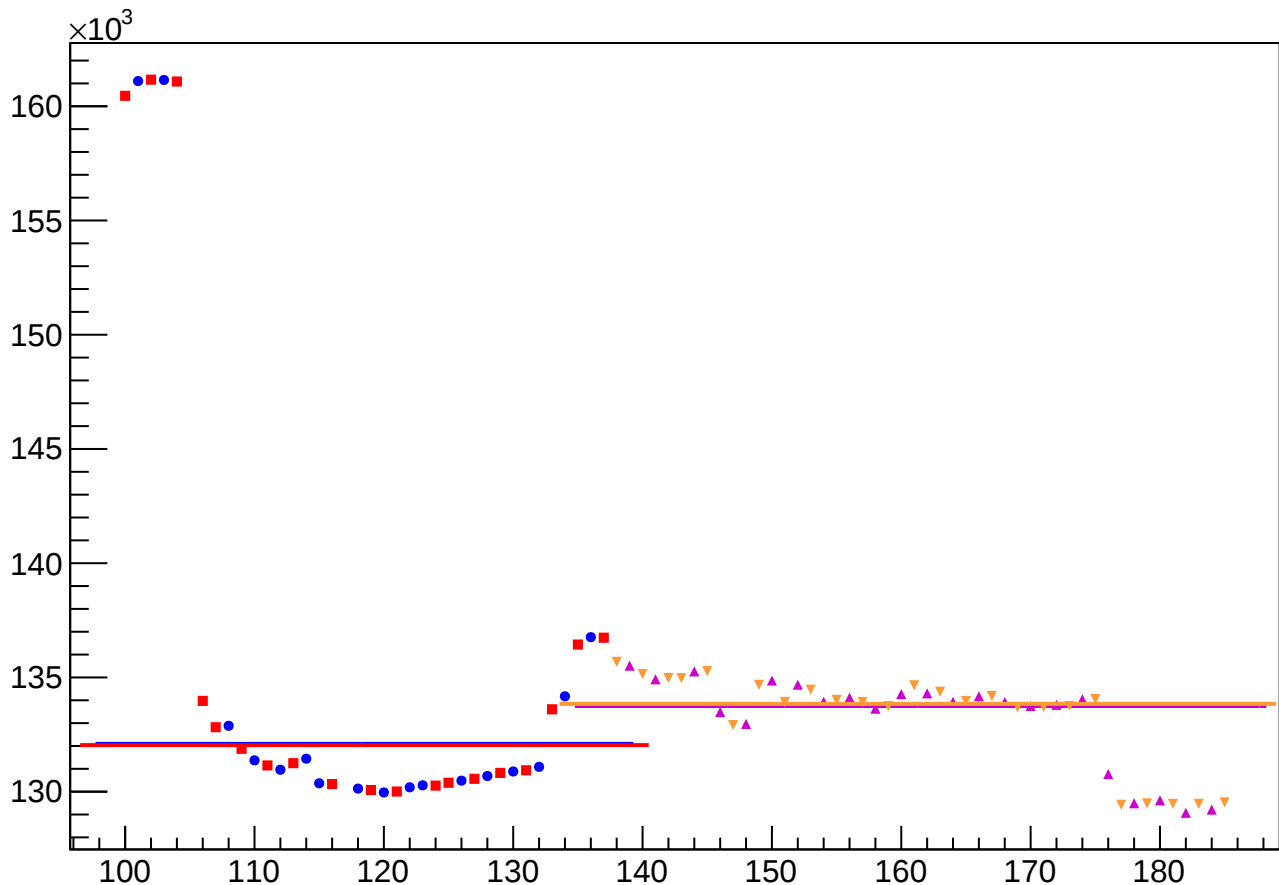
Right: 126.930 ± 0.026 $\chi^2/\text{NDF}: 3020240.6/35$

In: 168.106 ± 0.026 $\chi^2/\text{NDF}: 4466243.9/39$

Out: 162.838 ± 0.024 $\chi^2/\text{NDF}: 4999820.9/43$

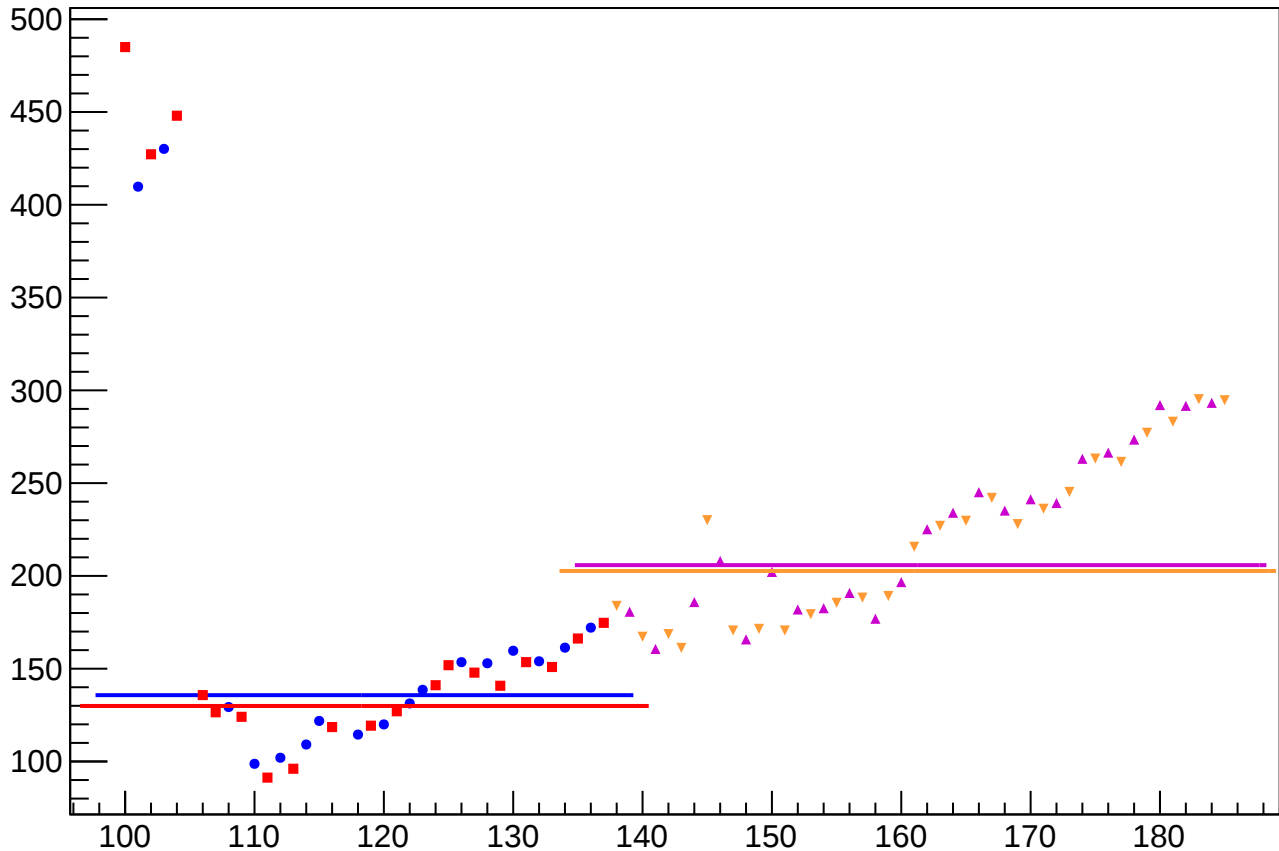
All: 165.321 ± 0.018 $\chi^2/\text{NDF}: 9488277.2/83$

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132090.159 $\pm$ 0.057 χ^2 /NDF: 6731961368.4/16
 Left Out: 133843.896 $\pm$ 0.048 χ^2 /NDF: 1075839256.0/24
 Right Out: 132038.077 $\pm$ 0.053 χ^2 /NDF: 5881799125.4/18
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133798.782 $\pm$ 0.035 χ^2 /NDF: 2031724526.8/16
 Right: 132062.178 $\pm$ 0.039 χ^2 /NDF: 12614215233.0/16
 In: 133014.023 $\pm$ 0.038 χ^2 /NDF: 8164426549.6/39
 Out: 133014.988 $\pm$ 0.036 χ^2 /NDF: 7596755724.0/40
 All: 133014.533 $\pm$ 0.026 χ^2 /NDF: 157611820.0/16

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.730 $\pm$ 0.040 χ^2 /NDF: 1442560.7/16

Left Out: 202.667 $\pm$ 0.034 χ^2 /NDF:1210663.1/24

Right Out: 129.912 $\pm$ 0.037 χ^2 /NDF: 1498757.6/18

Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

Left: 204.170 $\pm$ 0.025 χ^2 /NDF: 2309025.3/47

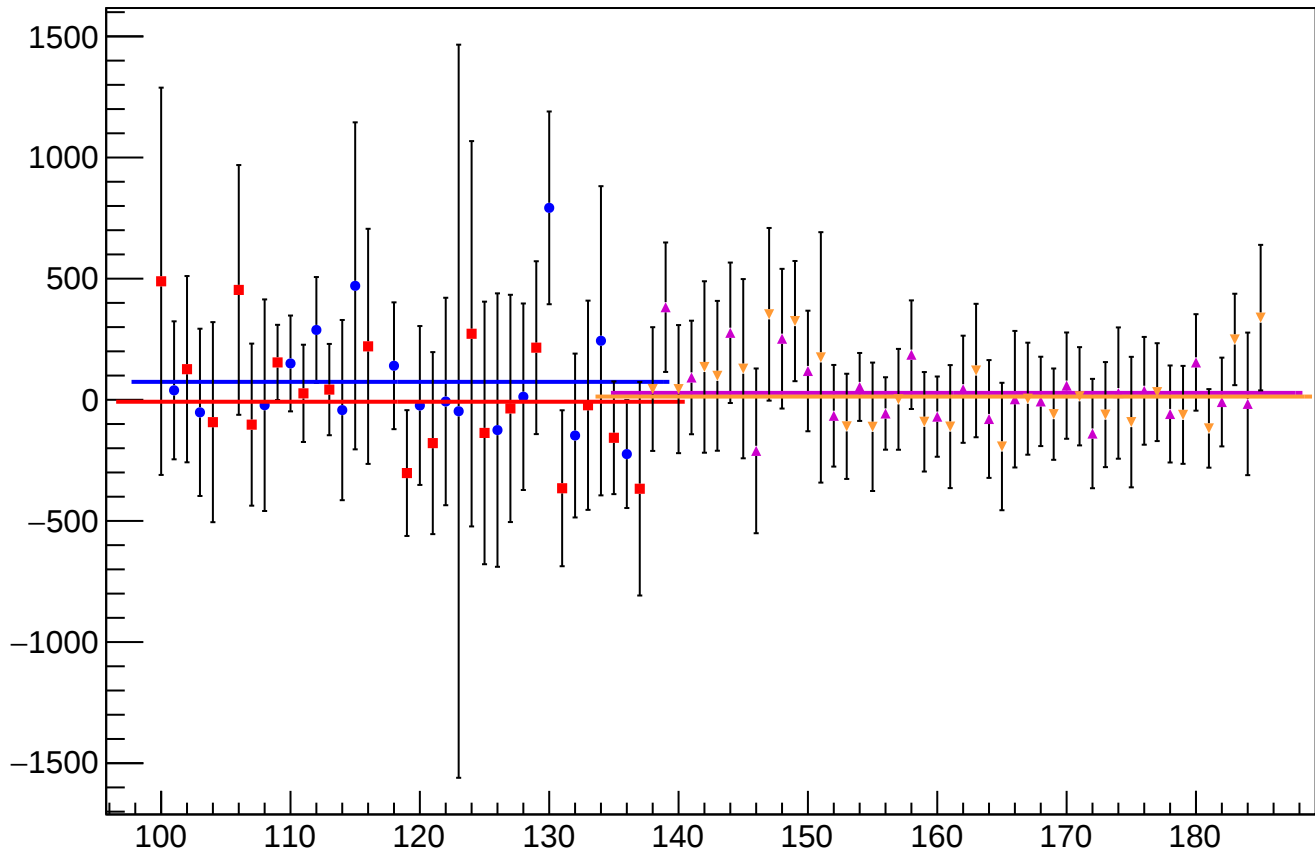
Right: 132.605 $\pm$ 0.027 χ^2 /NDF: 2952668.5/35

In: 174.744 $\pm$ 0.027 χ^2 /NDF:4243113.4/39

Out: 169.271 $\pm$ 0.025 χ^2 /NDF:4784273.6/43

All: 171.851 $\pm$ 0.018 χ^2 /NDF: 9049677.5/83

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.036+/-79.233 χ^2/NDF : 7.6/16

Left Out: 13.297+/-47.615 χ^2/NDF : 8.7/24

Right Out: -8.046+/-70.080 χ^2/NDF : 7.2/18

Left In: 28.452+/-44.688 χ^2/NDF : 6.7/22

Left: 21.355+/-32.585 χ^2/NDF : 15.4/47

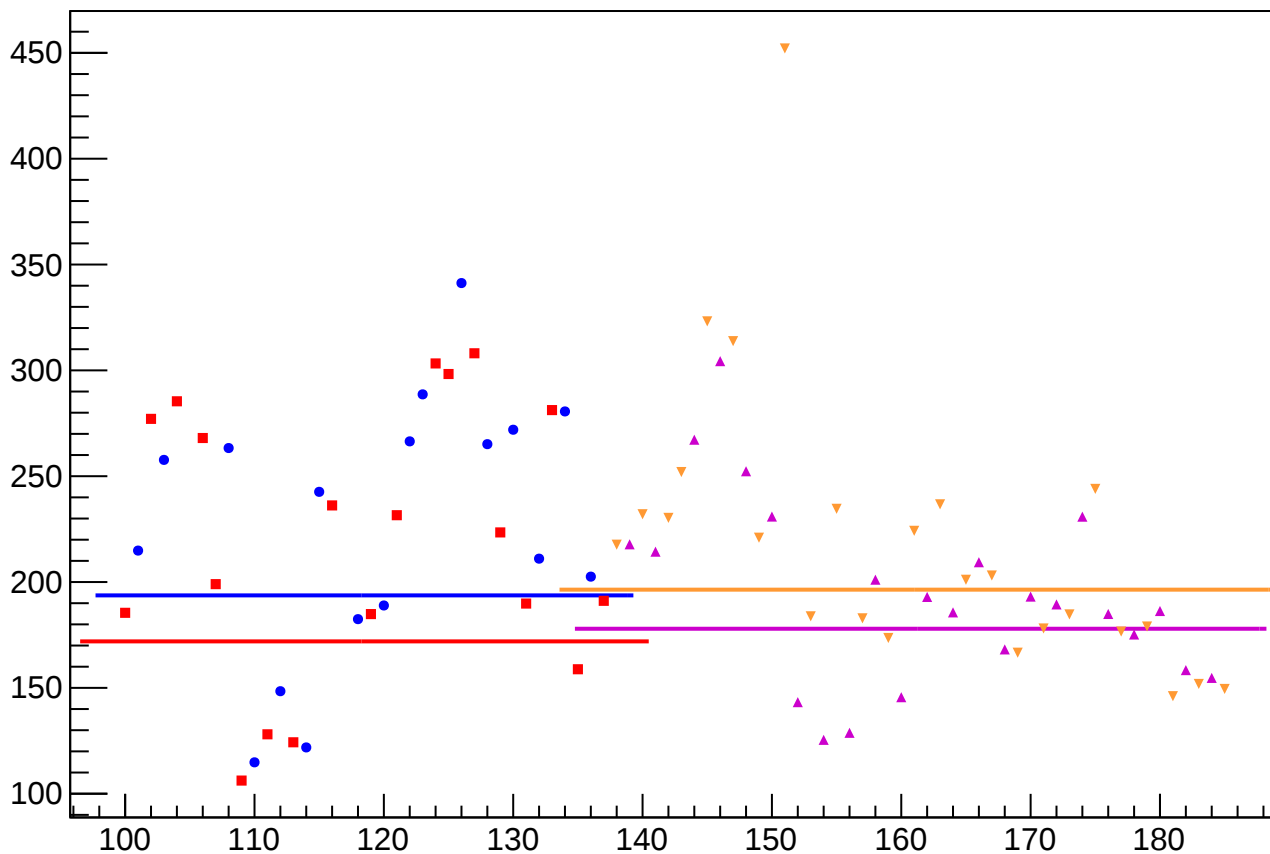
Right: 27.982+/-52.493 χ^2/NDF : 15.5/35

In: 39.453+/-38.924 χ^2/NDF : 14.6/39

Out: 6.556+/-39.384 χ^2/NDF : 16.0/43

All: 23.198+/-27.685 χ^2/NDF : 30.9/83

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.695 $\pm$ 0.056 χ^2 /NDF: 1018039.6/16

Left Out: 196.401 $\pm$ 0.034 χ^2 /NDF:1766180.7/24

Right Out: 171.963 $\pm$ 0.050 χ^2 /NDF: 1574387.3/18

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

Left: 186.582 $\pm$ 0.023 χ^2 /NDF: 3531927.1/47

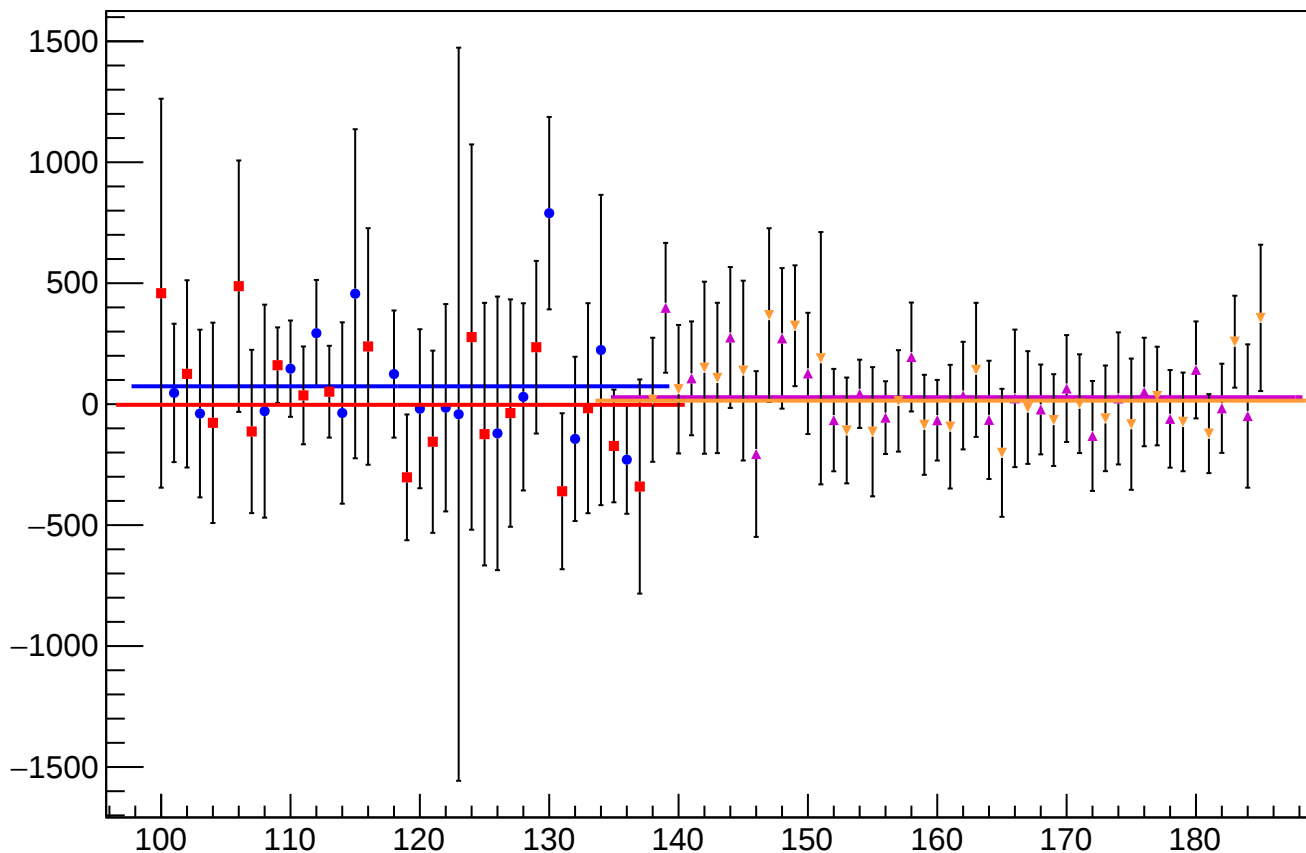
Right: 181.502 $\pm$ 0.037 χ^2 /NDF: 2676847.4/35

In: 181.737 $\pm$ 0.028 χ^2 /NDF:2683869.8/39

Out: 188.683 $\pm$ 0.028 χ^2 /NDF:3506959.3/43

All: 185.169 $\pm$ 0.020 χ^2 /NDF: 6222295.4/83

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 73.822 $\pm$ 79.620 χ^2 /NDF: 7.5/16

Left Out: 14.593 $\pm$ 47.947 χ^2 /NDF:9.1/24

Right Out: -2.721 $\pm$ 70.450 χ^2 /NDF: 7.4/18

Left In: 28.806 $\pm$ 44.980 χ^2 /NDF:6.8/22

Left: 22.153 $\pm$ 32.804 χ^2 /NDF: 16.0/47

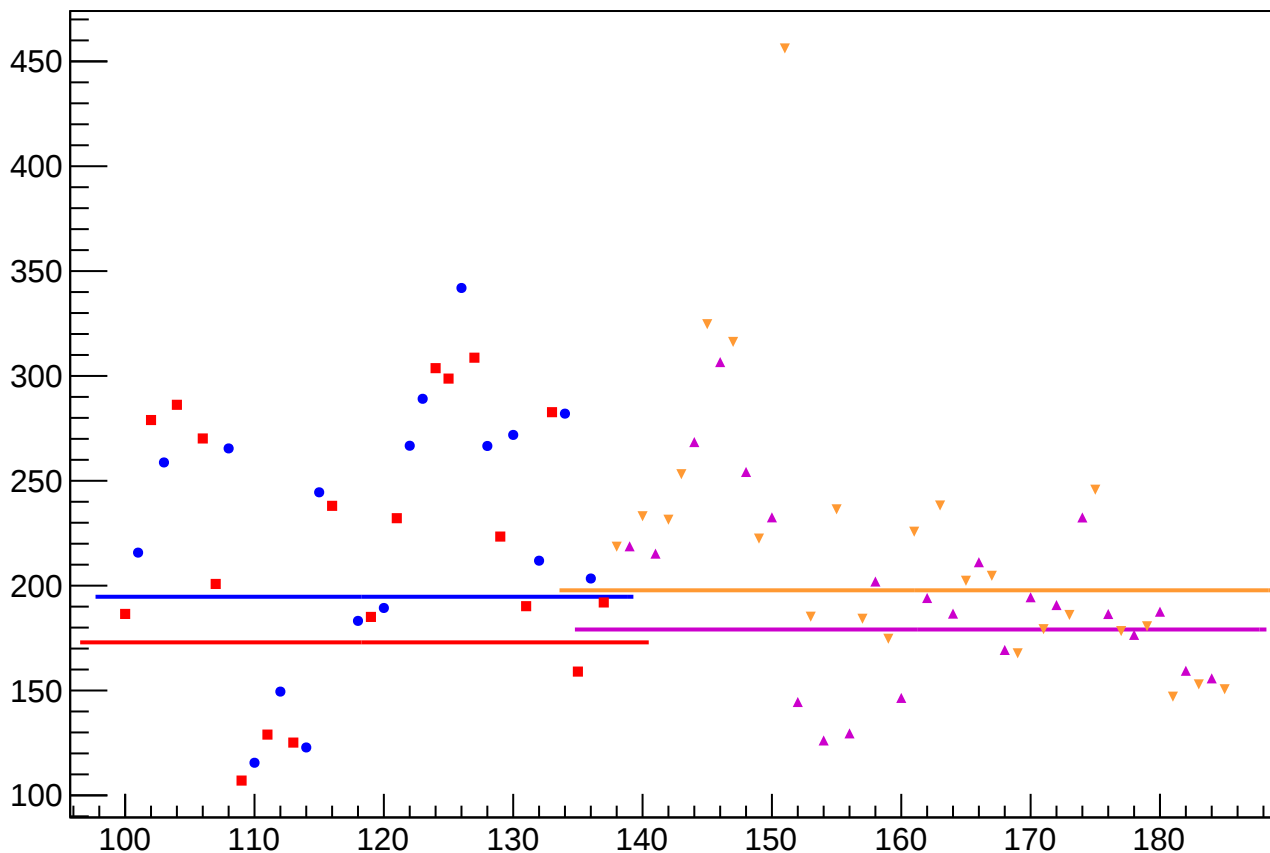
Right: 30.891 $\pm$ 52.761 χ^2 /NDF: 15.5/35

In: 39.697 $\pm$ 39.163 χ^2 /NDF:14.6/39

Out: 9.112 $\pm$ 39.638 χ^2 /NDF:16.5/43

All: 24.589 $\pm$ 27.859 χ^2 /NDF: 31.5/83

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.704 $\pm$ 0.056 χ^2 /NDF: 1009606.0/16

Left Out: 197.777 $\pm$ 0.034 χ^2 /NDF: 1762178.0/24

Right Out: 172.953 $\pm$ 0.050 χ^2 /NDF: 1562179.1/18

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF: 1605113.3/22

Left: 187.837 $\pm$ 0.023 χ^2 /NDF: 3528887.6/47

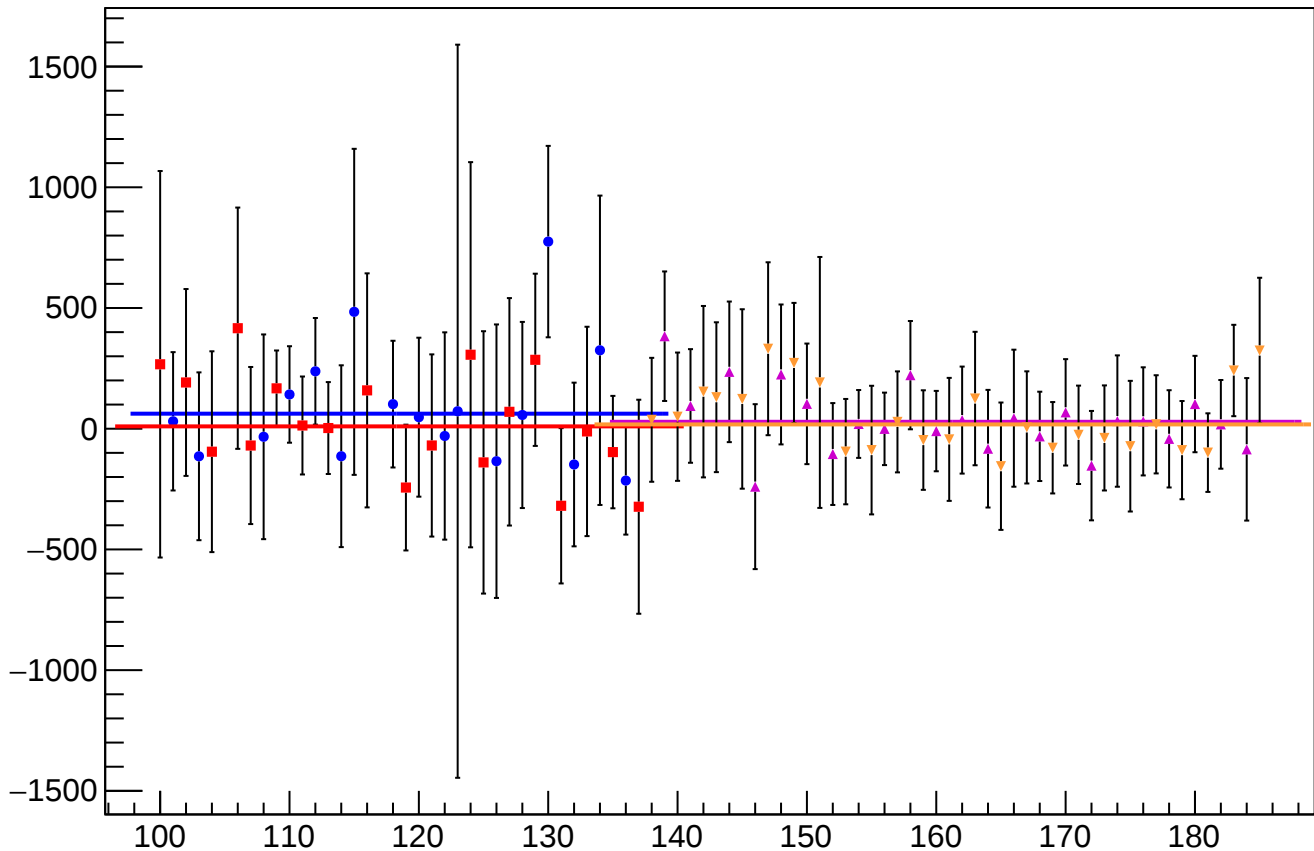
Right: 182.505 $\pm$ 0.037 χ^2 /NDF: 2655502.8/35

In: 182.867 $\pm$ 0.028 χ^2 /NDF: 2673030.7/39

Out: 189.919 $\pm$ 0.028 χ^2 /NDF: 3494066.9/43

All: 186.351 $\pm$ 0.020 χ^2 /NDF: 6199125.4/83

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 62.284 $\pm$ 79.616 χ^2 /NDF: 7.2/16

Left Out: 17.844 $\pm$ 47.822 χ^2 /NDF: 7.2/24

Right Out: 9.662 $\pm$ 70.372 χ^2 /NDF: 5.9/18

Left In: 28.655 $\pm$ 44.859 χ^2 /NDF: 6.1/22

Left: 23.595 $\pm$ 32.717 χ^2 /NDF: 13.3/47

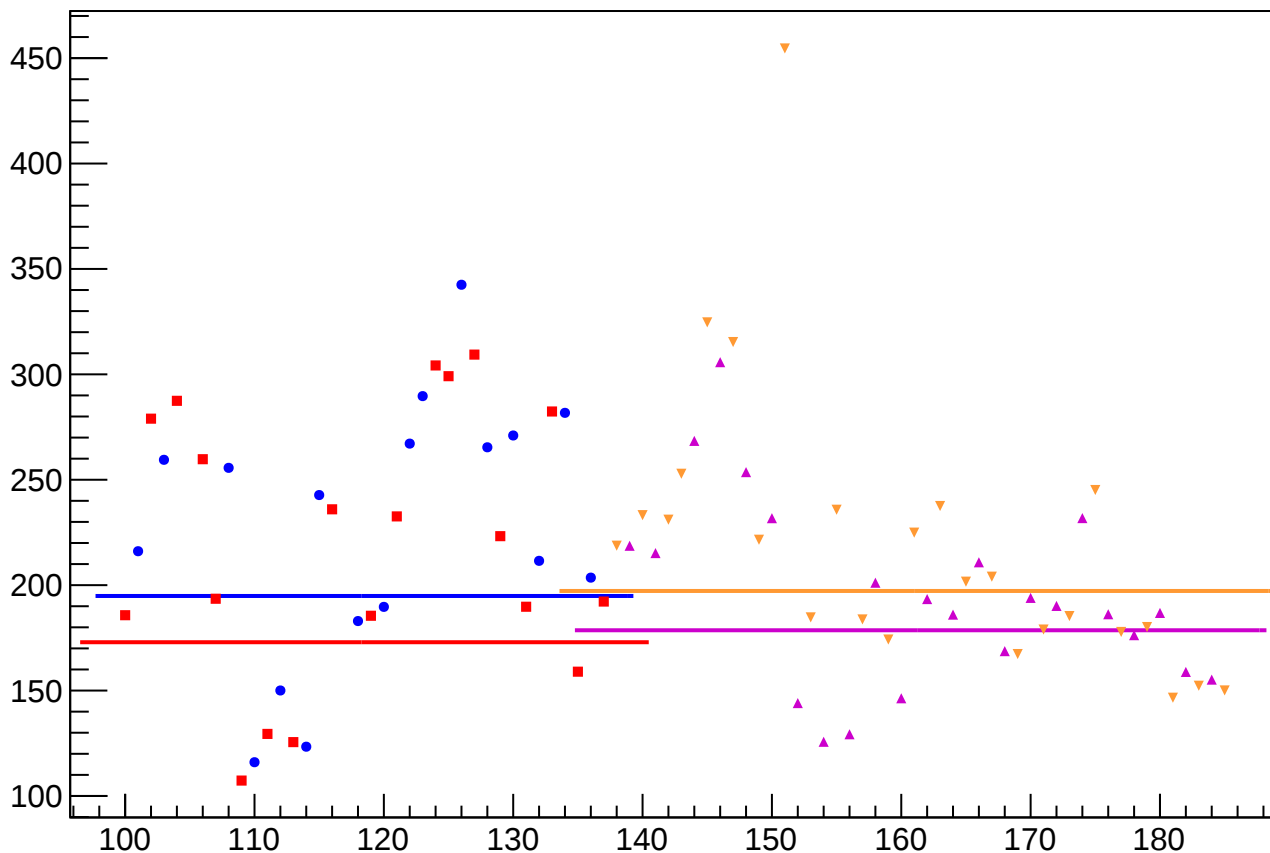
Right: 32.742 $\pm$ 52.727 χ^2 /NDF: 13.3/35

In: 36.759 $\pm$ 39.082 χ^2 /NDF: 13.5/39

Out: 15.259 $\pm$ 39.553 χ^2 /NDF: 13.0/43

All: 26.138 $\pm$ 27.800 χ^2 /NDF: 26.7/83

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.868 $\pm$ 0.056 χ^2/NDF : 987545.2/16

Left Out: 197.246 $\pm$ 0.034 χ^2/NDF : 1767722.0/24

Right Out: 172.928 $\pm$ 0.050 χ^2/NDF : 1539123.2/18

Left In: 178.601 $\pm$ 0.032 χ^2/NDF : 1608998.1/22

Left: 187.328 $\pm$ 0.023 χ^2/NDF : 3538428.8/47

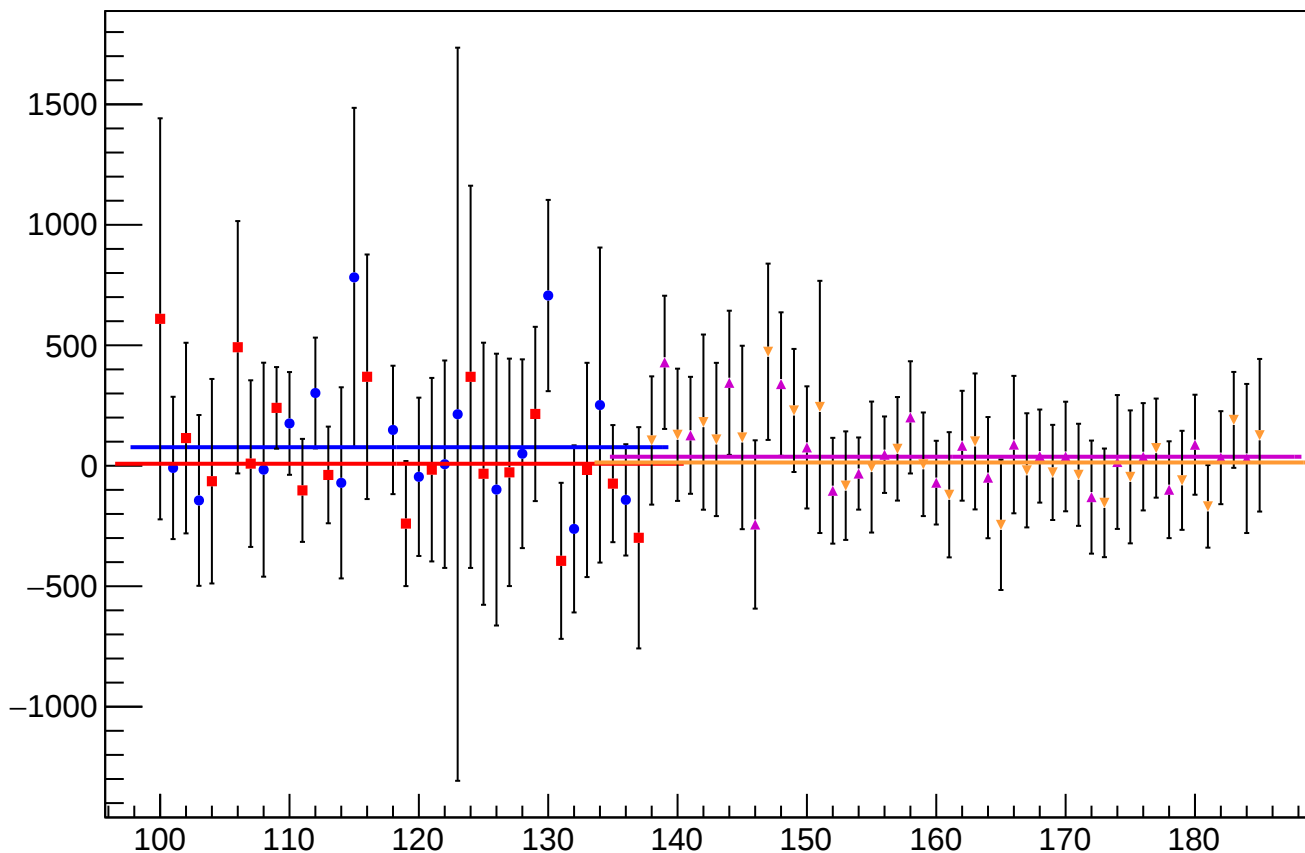
Right: 182.551 $\pm$ 0.037 χ^2/NDF : 2611939.6/35

In: 182.521 $\pm$ 0.028 χ^2/NDF : 2659916.3/39

Out: 189.563 $\pm$ 0.028 χ^2/NDF : 3470227.2/43

All: 186.000 $\pm$ 0.020 χ^2/NDF : 6162222.6/83

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 77.030 $\pm$ 82.098 χ^2 /NDF: 7.6/16

Left Out: 13.612 $\pm$ 49.329 χ^2 /NDF: 7.7/24

Right Out: 8.365 $\pm$ 73.326 χ^2 /NDF: 7.8/18

Left In: 37.460 $\pm$ 46.479 χ^2 /NDF: 7.6/22

Left: 26.245 $\pm$ 33.828 χ^2 /NDF: 15.4/47

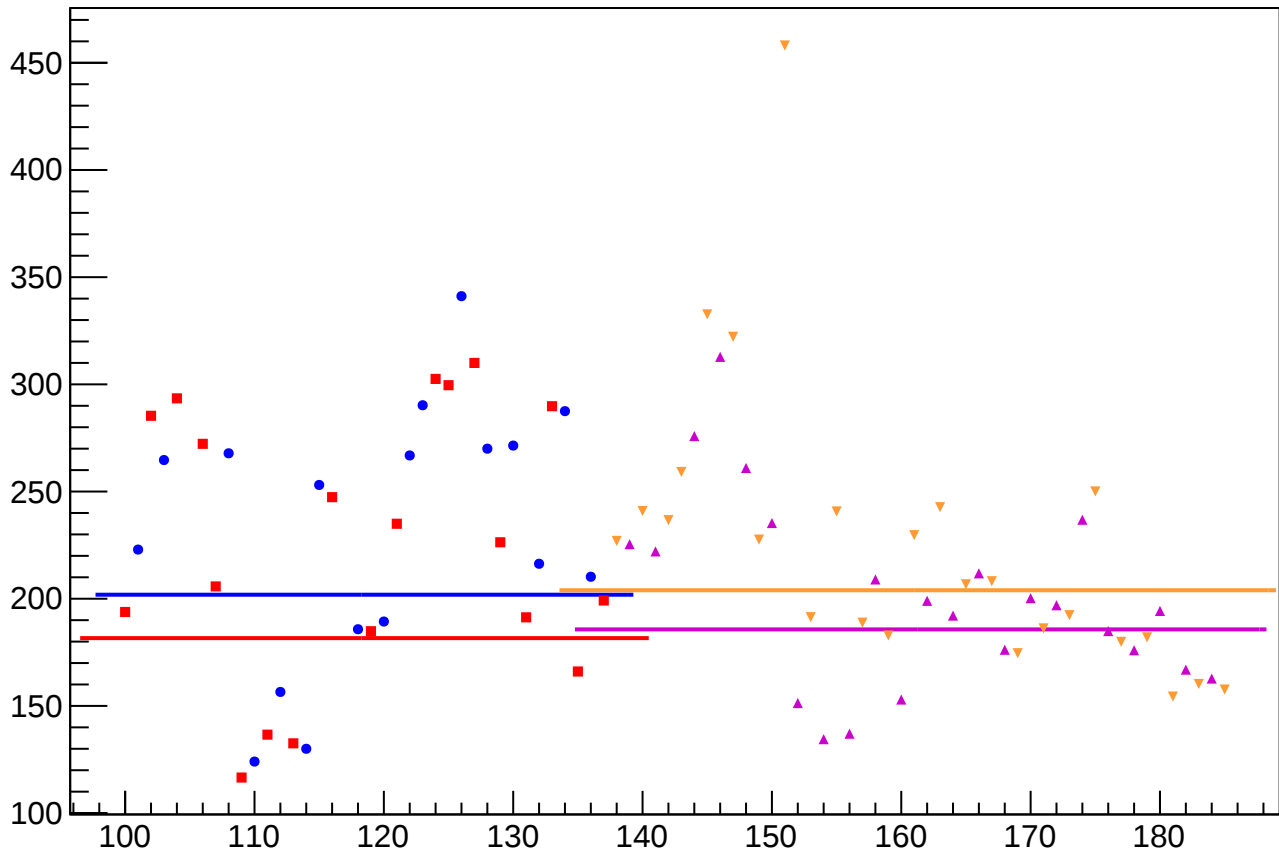
Right: 38.834 $\pm$ 54.689 χ^2 /NDF: 15.8/35

In: 47.064 $\pm$ 40.447 χ^2 /NDF: 15.4/39

Out: 11.977 $\pm$ 40.929 χ^2 /NDF: 15.4/43

All: 29.729 $\pm$ 28.769 χ^2 /NDF: 31.2/83

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.873 $\pm$ 0.058 χ^2/NDF : 884412.3/16

Left Out: 203.952 $\pm$ 0.035 χ^2/NDF : 1660453.9/24

Right Out: 181.626 $\pm$ 0.052 χ^2/NDF : 1373392.9/18

Left In: 185.694 $\pm$ 0.033 χ^2/NDF : 1447767.0/22

Left: 194.280 $\pm$ 0.024 χ^2/NDF : 3253362.0/47

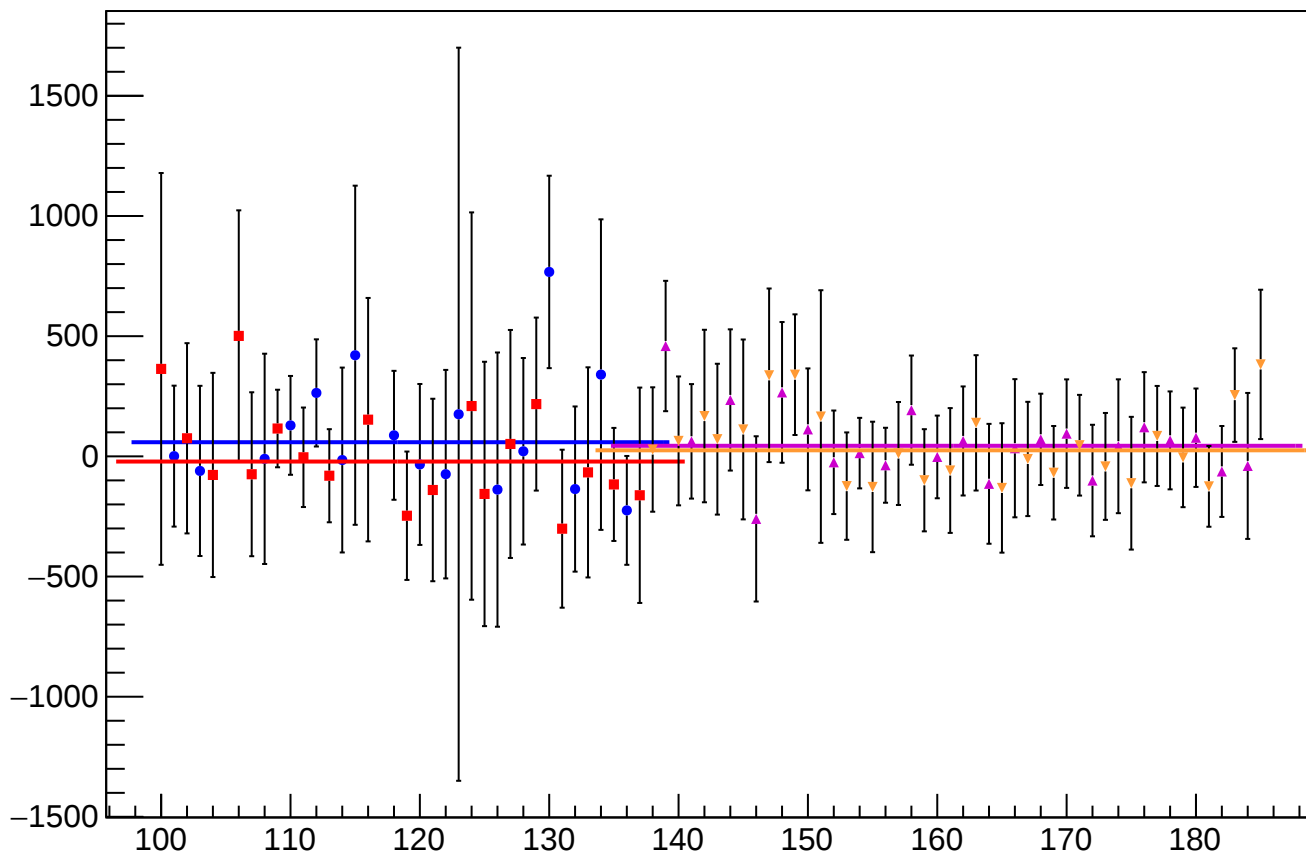
Right: 190.610 $\pm$ 0.039 χ^2/NDF : 2325469.6/35

In: 189.621 $\pm$ 0.029 χ^2/NDF : 2391001.4/39

Out: 196.996 $\pm$ 0.029 χ^2/NDF : 3161488.8/43

All: 193.264 $\pm$ 0.020 χ^2/NDF : 5585344.7/83

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 58.835 $\pm$ 81.036 χ^2 /NDF: 7.0/16

Left Out: 25.162 $\pm$ 48.870 χ^2 /NDF:8.6/24

Right Out: -21.559 $\pm$ 71.880 χ^2 /NDF: 4.7/18

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 35.143 $\pm$ 33.488 χ^2 /NDF: 15.2/47

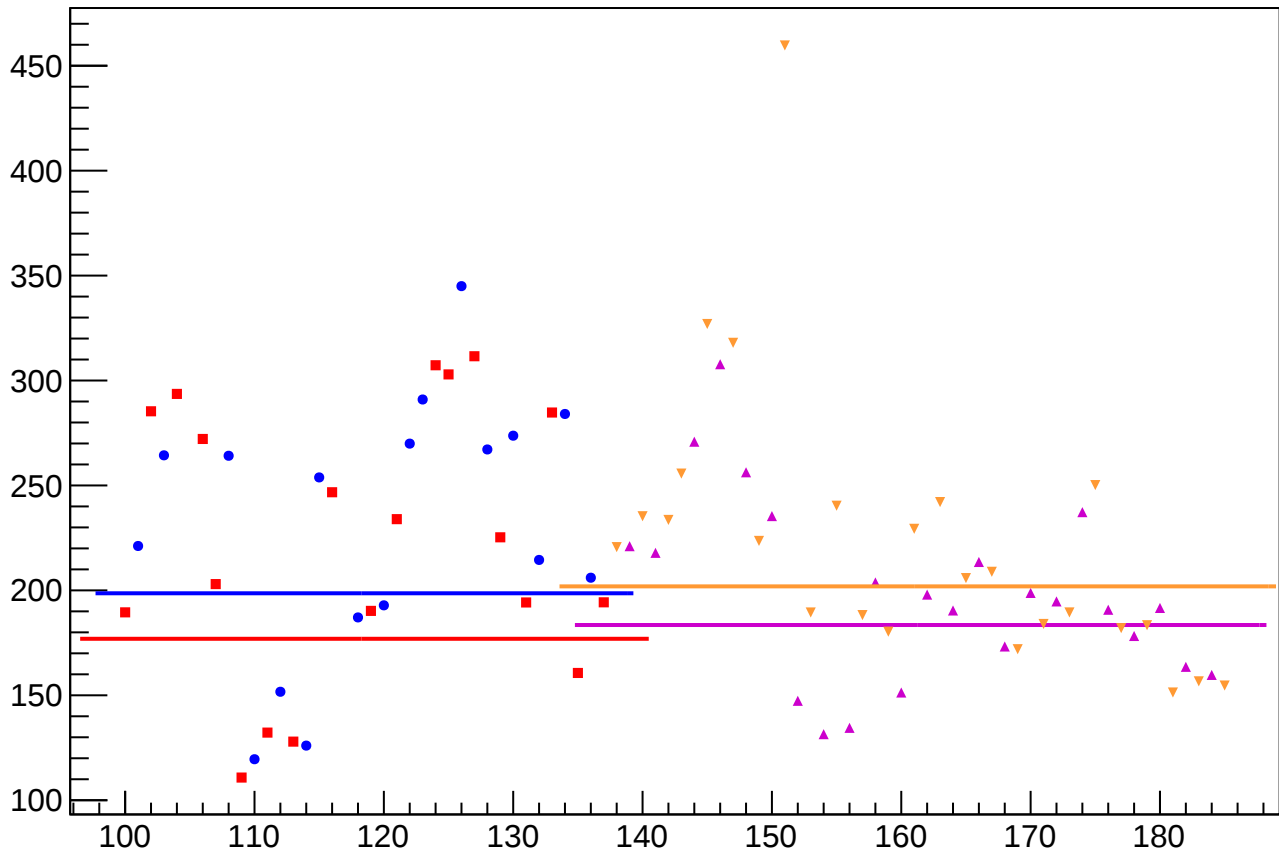
Right: 13.841 $\pm$ 53.774 χ^2 /NDF: 12.2/35

In: 47.597 $\pm$ 39.992 χ^2 /NDF:13.5/39

Out: 10.393 $\pm$ 40.414 χ^2 /NDF:13.5/43

All: 29.190 $\pm$ 28.427 χ^2 /NDF: 27.5/83

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.615 $\pm$ 0.057 χ^2 /NDF: 965079.3/16

Left Out: 201.905 $\pm$ 0.035 χ^2 /NDF:1681196.4/24

Right Out: 176.933 $\pm$ 0.051 χ^2 /NDF: 1519414.5/18

Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.141 $\pm$ 0.024 χ^2 /NDF: 3315070.5/47

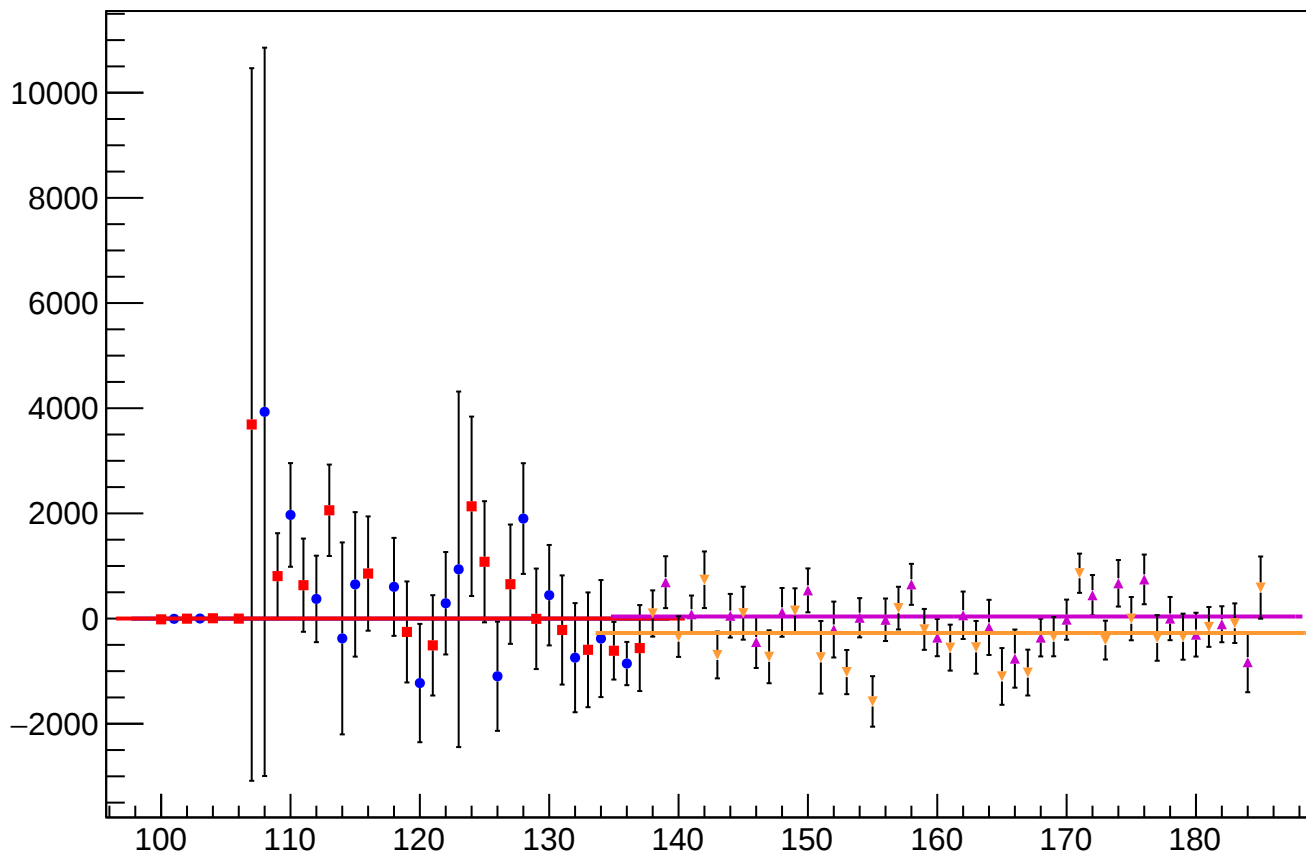
Right: 186.480 $\pm$ 0.038 χ^2 /NDF: 2564624.8/35

In: 187.180 $\pm$ 0.028 χ^2 /NDF:2501109.3/39

Out: 194.010 $\pm$ 0.029 χ^2 /NDF:3365689.8/43

All: 190.559 $\pm$ 0.020 χ^2 /NDF: 5895666.3/83

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.530 ± 2.251 χ^2/NDF : 17.4/16

Left Out: -273.910 ± 87.192 χ^2/NDF : 38.3/24

Right Out: 0.726 ± 2.111 χ^2/NDF : 19.1/18

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -118.449 ± 61.857 χ^2/NDF : 65.0/47

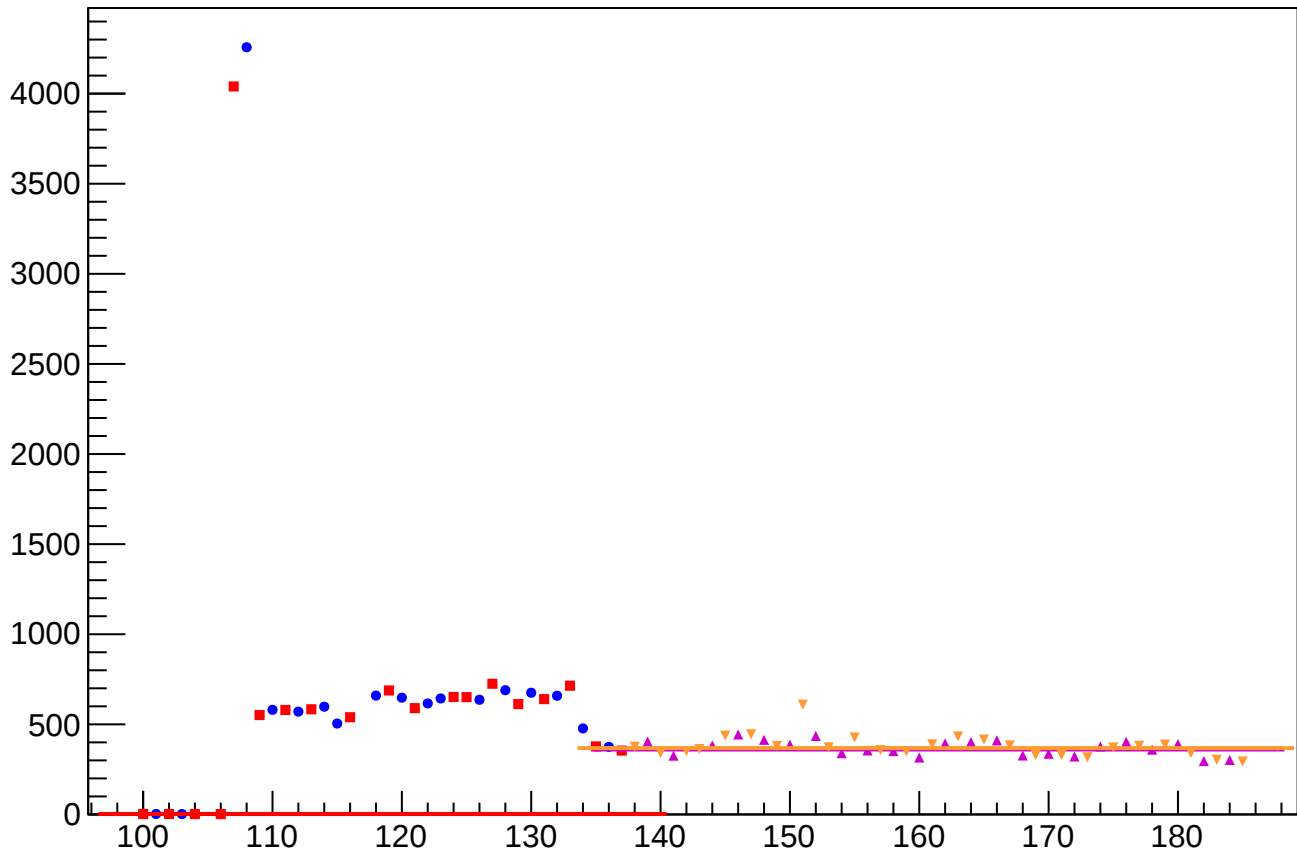
Right: -0.329 ± 1.540 χ^2/NDF : 37.1/35

In: -1.503 ± 2.251 χ^2/NDF : 37.9/39

Out: 0.565 ± 2.111 χ^2/NDF : 67.4/43

All: -0.403 ± 1.540 χ^2/NDF : 105.7/83

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.456+/-0.002 χ^2/NDF : 10808630.7/16

Left Out: 368.323+/-0.062 χ^2/NDF : 622160.3/24

Right Out: 2.437+/-0.001 χ^2/NDF : 11101281.1/18

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.391+/-0.044 χ^2/NDF : 1048084.2/47

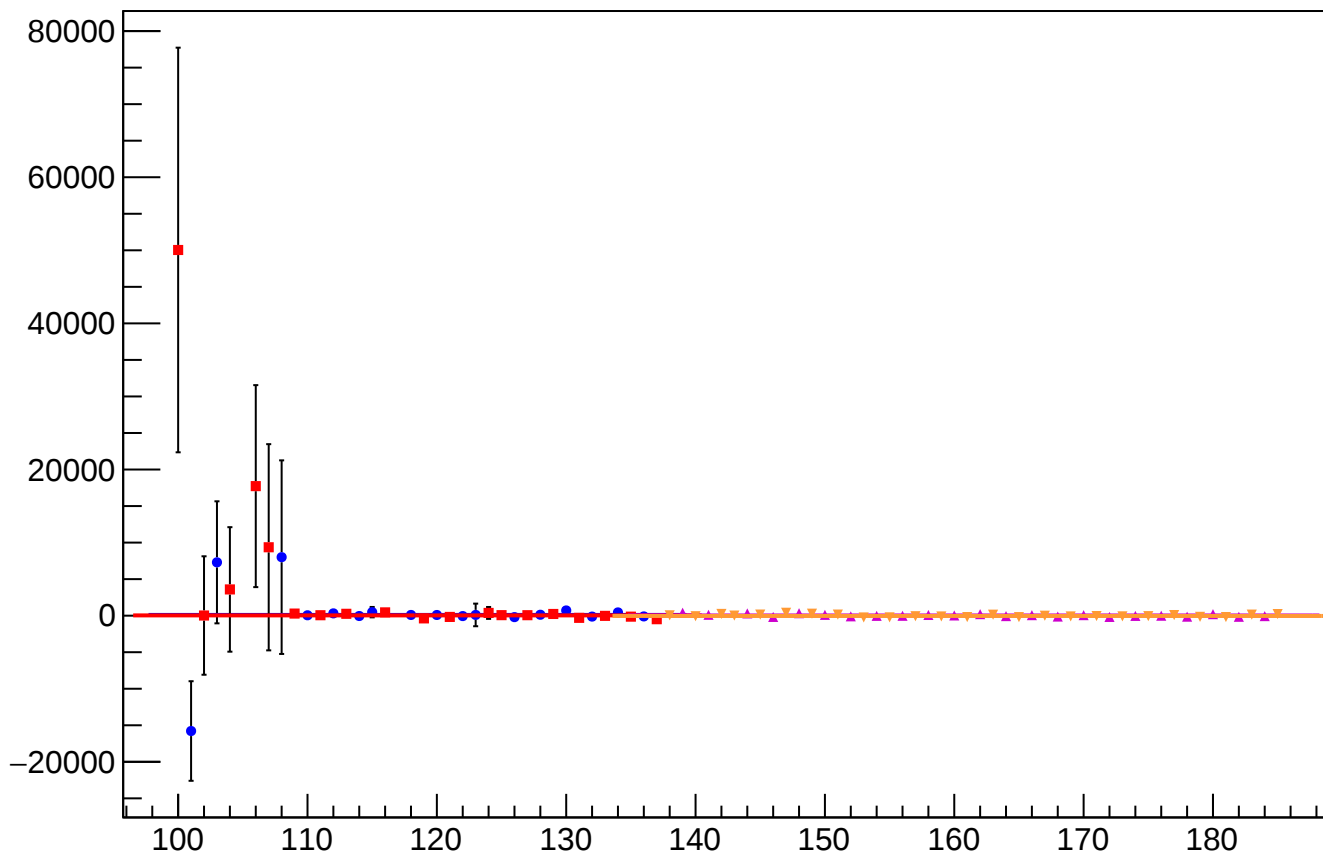
Right: 2.446+/-0.001 χ^2/NDF : 21909994.5/35

In: 2.692+/-0.002 χ^2/NDF : 44469855.2/39

Out: 2.651+/-0.001 χ^2/NDF : 46920920.4/43

All: 2.670+/-0.001 χ^2/NDF : 91391126.3/83

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 100.742 $\pm$ 91.159 χ^2 /NDF: 12.0/16

Left Out: -37.008 $\pm$ 49.703 χ^2 /NDF:9.3/24

Right Out: 37.835 $\pm$ 84.525 χ^2 /NDF: 14.0/18

Left In: 28.205 $\pm$ 48.167 χ^2 /NDF:9.2/22

Left: -3.378 $\pm$ 34.590 χ^2 /NDF: 19.4/47

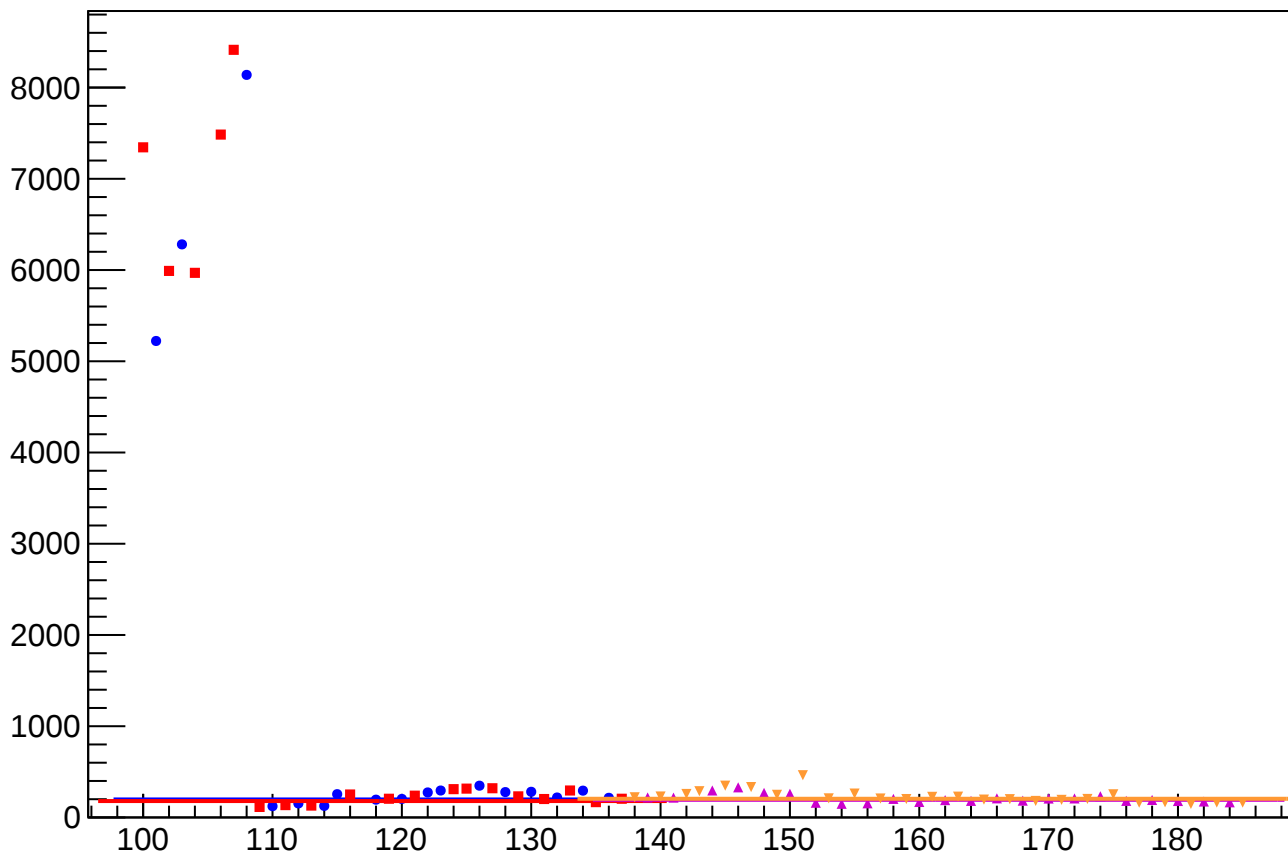
Right: 66.916 $\pm$ 61.981 χ^2 /NDF: 26.3/35

In: 44.036 $\pm$ 42.587 χ^2 /NDF:21.7/39

Out: -17.779 $\pm$ 42.845 χ^2 /NDF:23.9/43

All: 13.315 $\pm$ 30.204 χ^2 /NDF: 46.6/83

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.308 $\pm$ 0.064 χ^2 /NDF: 3696256.2/16

Left Out: 204.807 $\pm$ 0.035 χ^2 /NDF:1938142.6/24

Right Out: 179.749 $\pm$ 0.060 χ^2 /NDF: 4315581.1/18

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 198.927 $\pm$ 0.024 χ^2 /NDF: 3164596.1/47

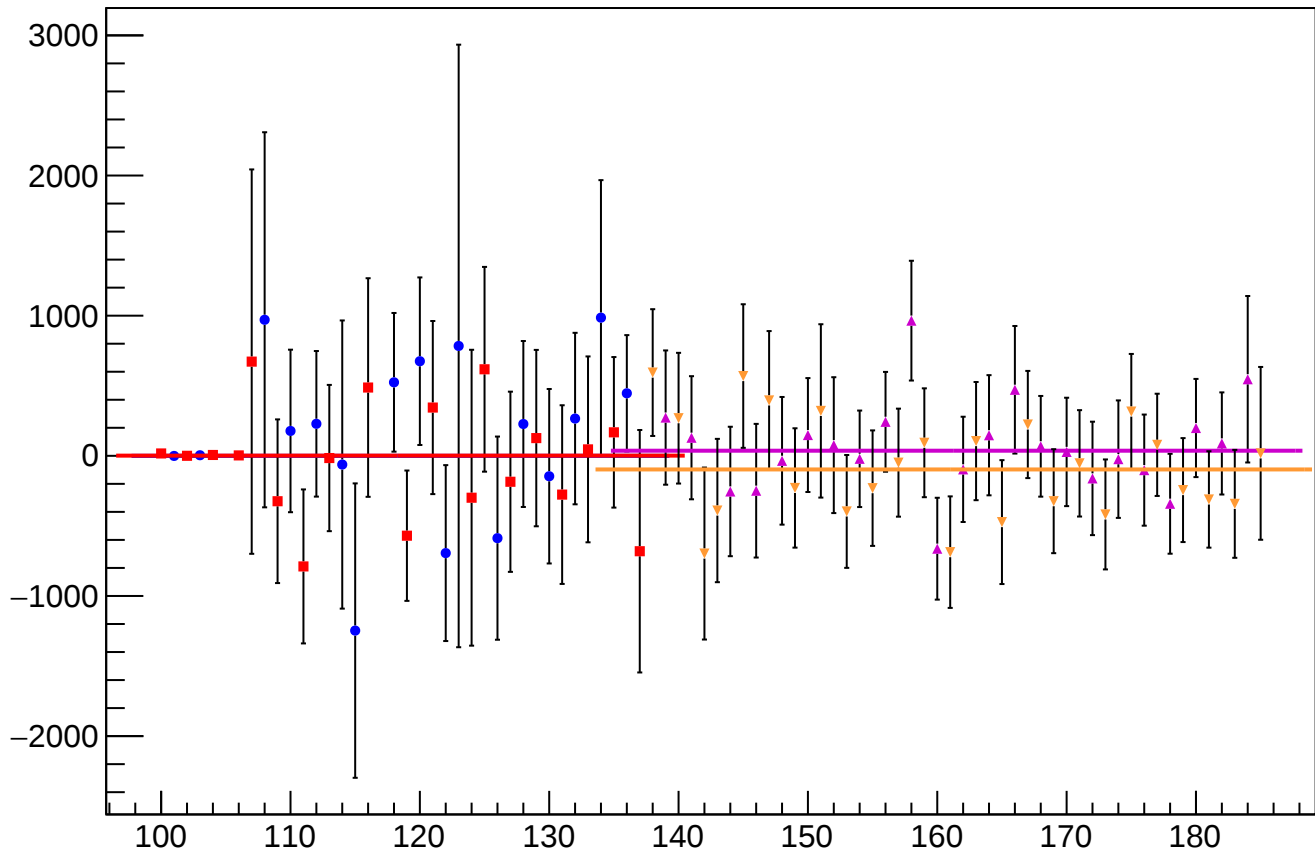
Right: 187.866 $\pm$ 0.044 χ^2 /NDF: 8051736.9/35

In: 194.257 $\pm$ 0.030 χ^2 /NDF:4871291.4/39

Out: 198.369 $\pm$ 0.030 χ^2 /NDF:6384342.1/43

All: 196.300 $\pm$ 0.021 χ^2 /NDF: 11264902.2/83

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.140 ± 1.737 χ^2/NDF : 10.0/16

Left Out: -97.229 ± 84.349 χ^2/NDF : 15.5/24

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.4/18

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -30.624 ± 59.759 χ^2/NDF : 30.3/47

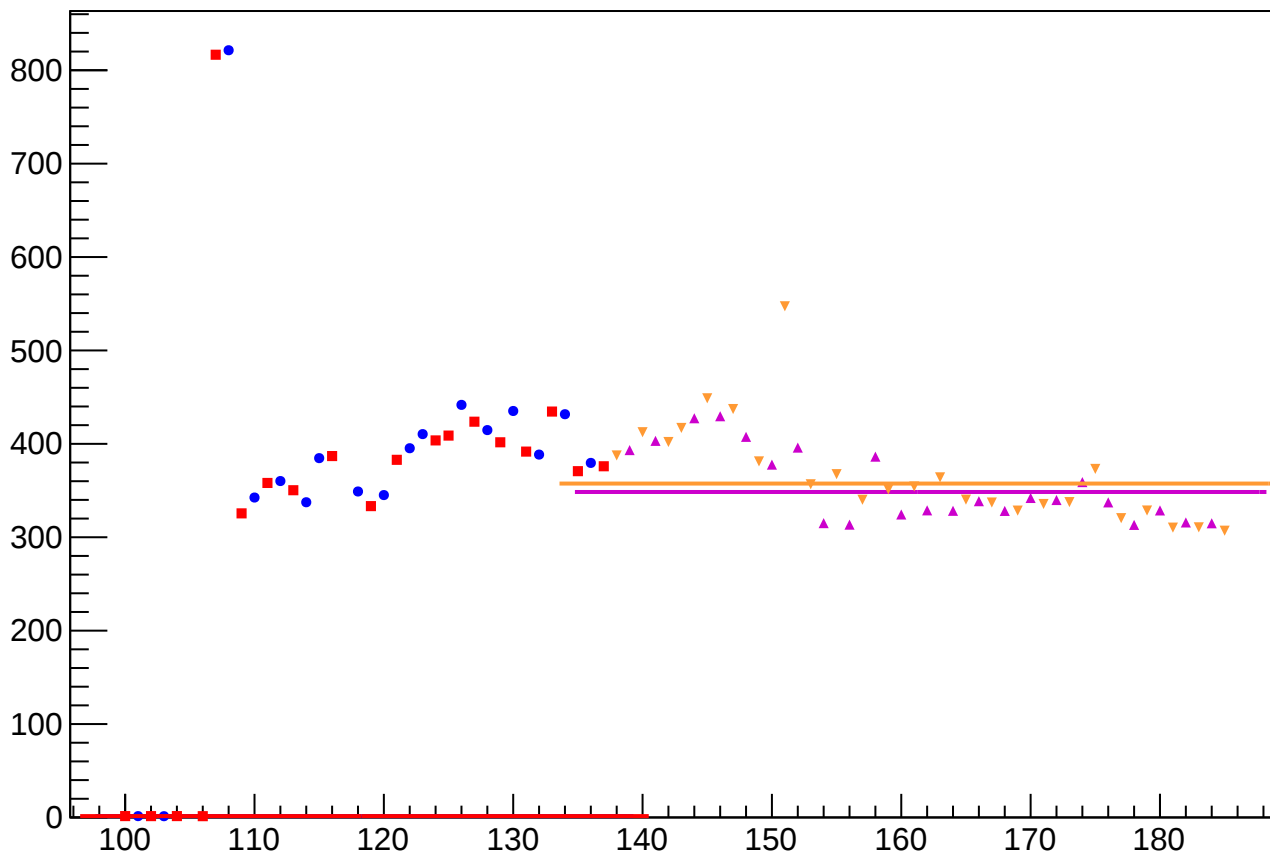
Right: 0.641 ± 1.186 χ^2/NDF : 19.8/35

In: -0.124 ± 1.736 χ^2/NDF : 23.7/39

Out: 1.286 ± 1.622 χ^2/NDF : 26.3/43

All: 0.629 ± 1.185 χ^2/NDF : 50.4/83

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10914608.7/16

Left Out: 357.477+/-0.060 χ^2/NDF : 539693.6/24

Right Out: 1.451+/-0.001 χ^2/NDF : 10838834.3/18

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 352.988+/-0.042 χ^2/NDF : 911493.2/47

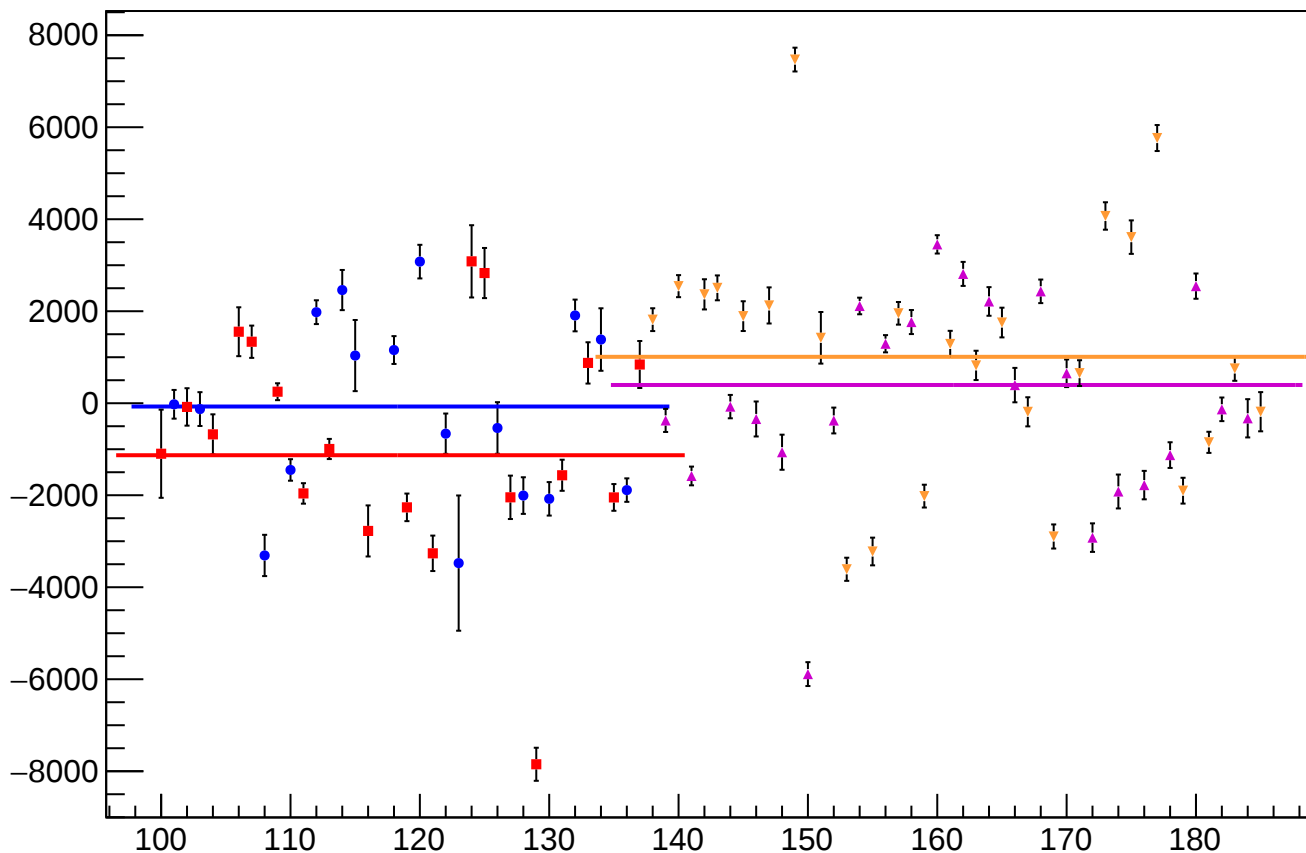
Right: 1.452+/-0.001 χ^2/NDF : 21753444.0/35

In: 1.599+/-0.001 χ^2/NDF : 44850468.9/39

Out: 1.583+/-0.001 χ^2/NDF : 46996706.0/43

All: 1.590+/-0.001 χ^2/NDF : 91847264.4/83

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -71.539 ± 87.764 $\chi^2/\text{NDF}: 426.3/16$

Left Out: 1008.850 ± 57.565 $\chi^2/\text{NDF}: 2304.2/24$

Right Out: -1130.395 ± 78.436 $\chi^2/\text{NDF}: 688.9/18$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 689.287 ± 39.801 $\chi^2/\text{NDF}: 3944.3/47$

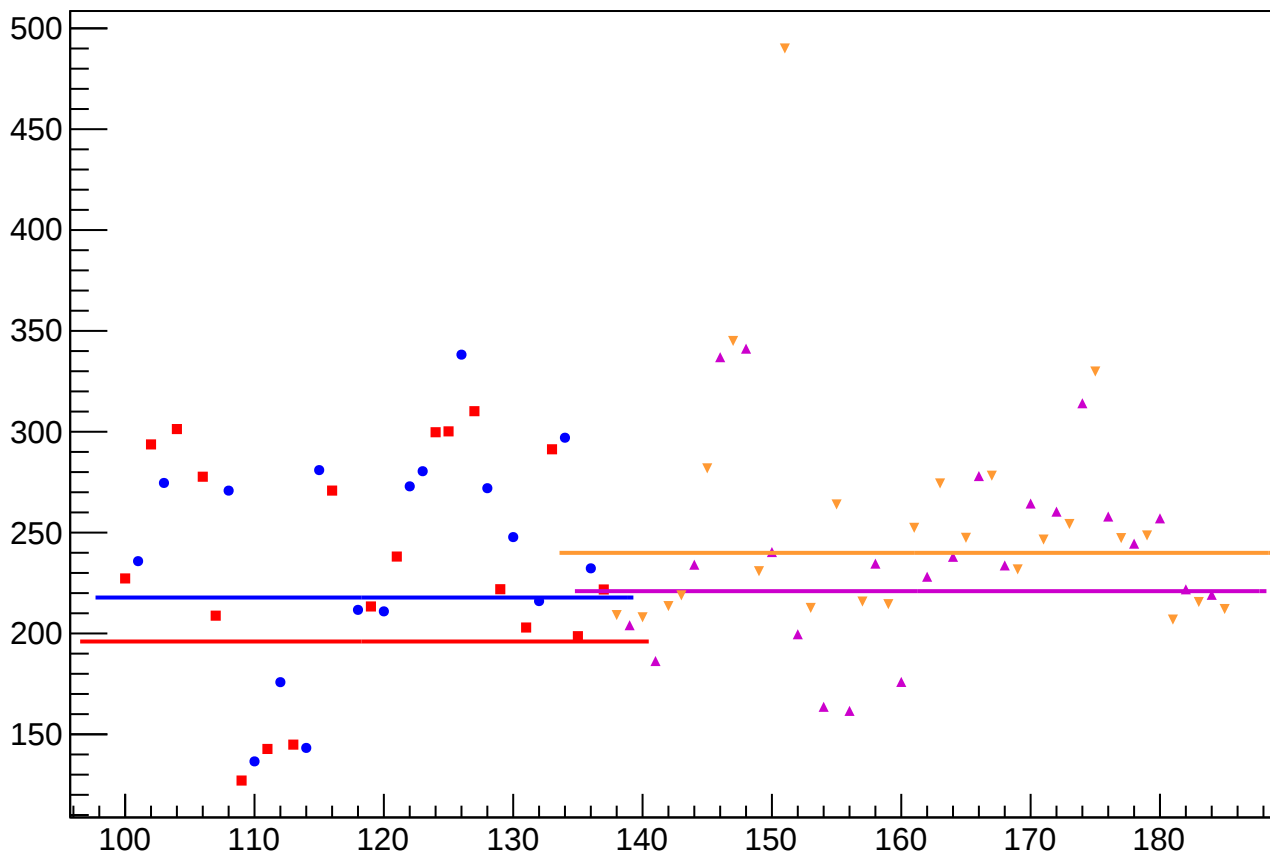
Right: -660.208 ± 58.484 $\chi^2/\text{NDF}: 1196.1/35$

In: 264.288 ± 46.659 $\chi^2/\text{NDF}: 2027.7/39$

Out: 259.972 ± 46.408 $\chi^2/\text{NDF}: 3476.6/43$

All: 262.118 ± 32.904 $\chi^2/\text{NDF}: 5504.3/83$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.814 $\pm$ 0.062 χ^2 /NDF: 661049.8/16

Left Out: 239.962 $\pm$ 0.041 χ^2 /NDF:1001639.2/24

Right Out: 196.014 $\pm$ 0.055 χ^2 /NDF: 1189121.8/18

Left In: 220.972 $\pm$ 0.039 χ^2 /NDF:1327680.6/22

Left: 230.050 $\pm$ 0.028 χ^2 /NDF: 2442931.0/47

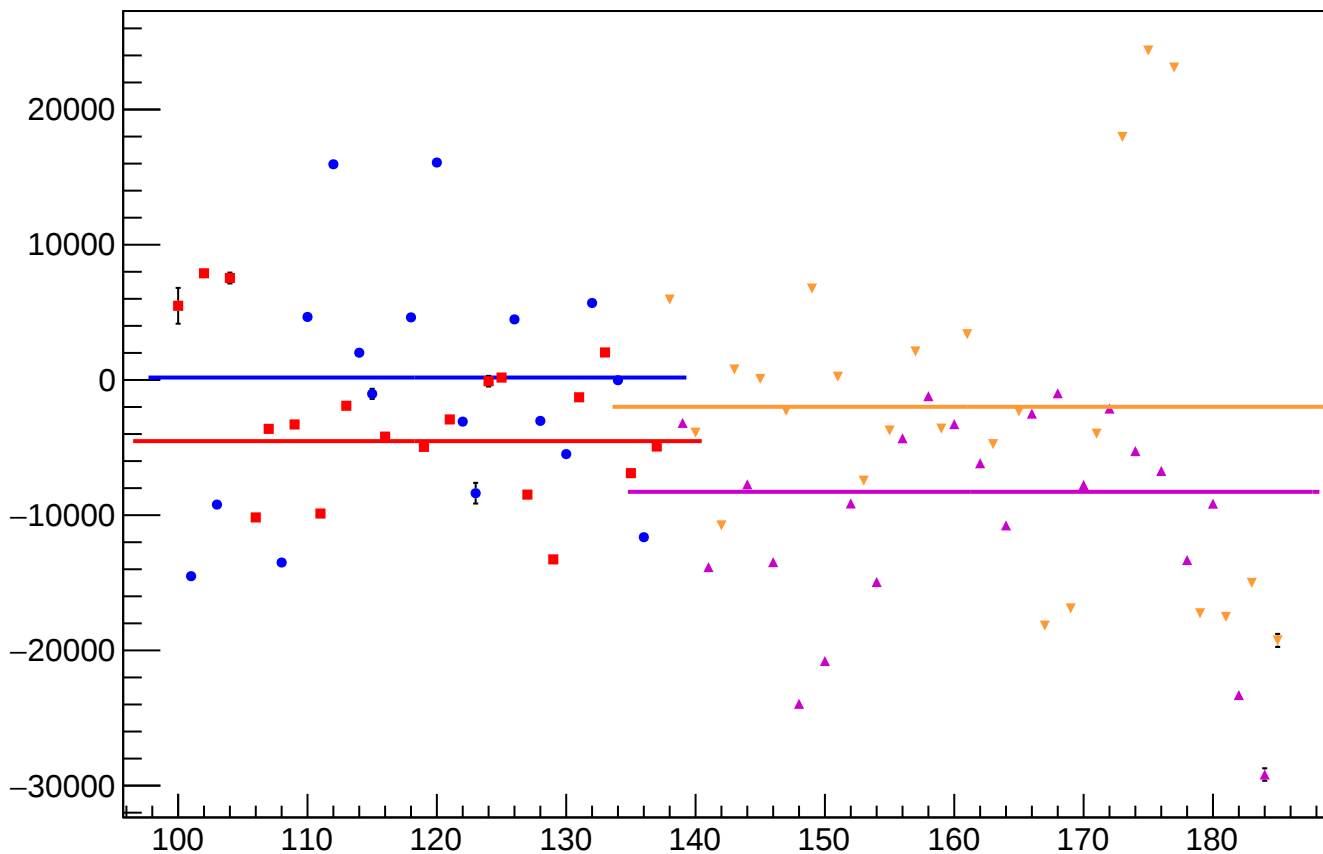
Right: 205.694 $\pm$ 0.041 χ^2 /NDF: 1918777.4/35

In: 220.079 $\pm$ 0.033 χ^2 /NDF:1990587.6/39

Out: 224.577 $\pm$ 0.033 χ^2 /NDF:2598849.1/43

All: 222.340 $\pm$ 0.023 χ^2 /NDF: 4598780.3/83

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788+/-54.896 χ^2/NDF : 30662.2/16

Left Out: -1984.621+/-42.506 χ^2/NDF : 63793.3/24

Right Out: -4523.222+/-52.440 χ^2/NDF : 7474.2/18

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4998.924+/-30.671 χ^2/NDF : 97155.1/47

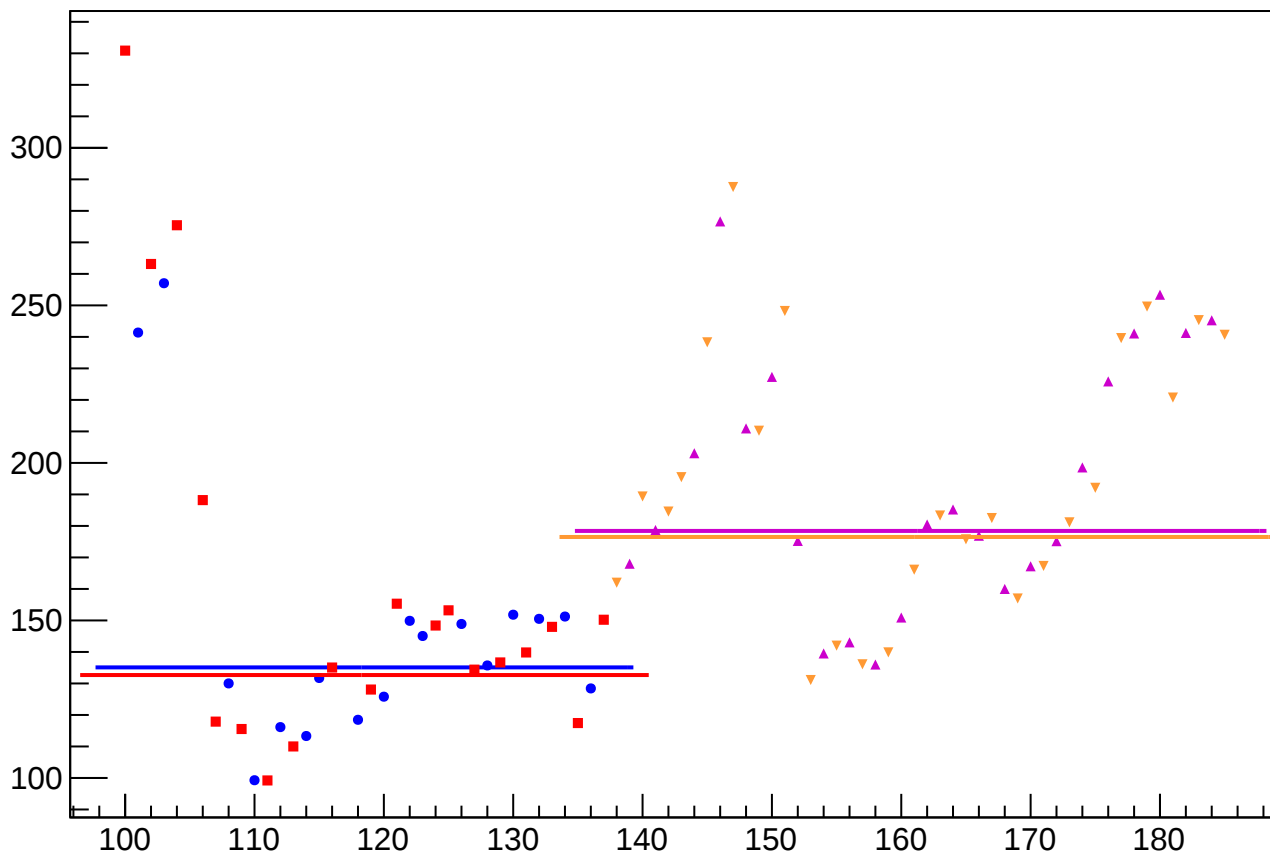
Right: -2279.776+/-37.919 χ^2/NDF : 41972.4/35

In: -4939.792+/-34.475 χ^2/NDF : 67888.0/39

Out: -2991.191+/-33.021 χ^2/NDF : 72681.7/43

All: -3923.512+/-23.847 χ^2/NDF : 142235.9/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099 $\pm$ 0.039 χ^2/NDF : 657657.4/16

Left Out: 176.492 $\pm$ 0.030 χ^2/NDF :1545933.2/24

Right Out: 132.672 $\pm$ 0.037 χ^2/NDF : 828363.1/18

Left In: 178.413 $\pm$ 0.031 χ^2/NDF :1293736.2/22

Left: 177.413 $\pm$ 0.022 χ^2/NDF : 2841628.7/47

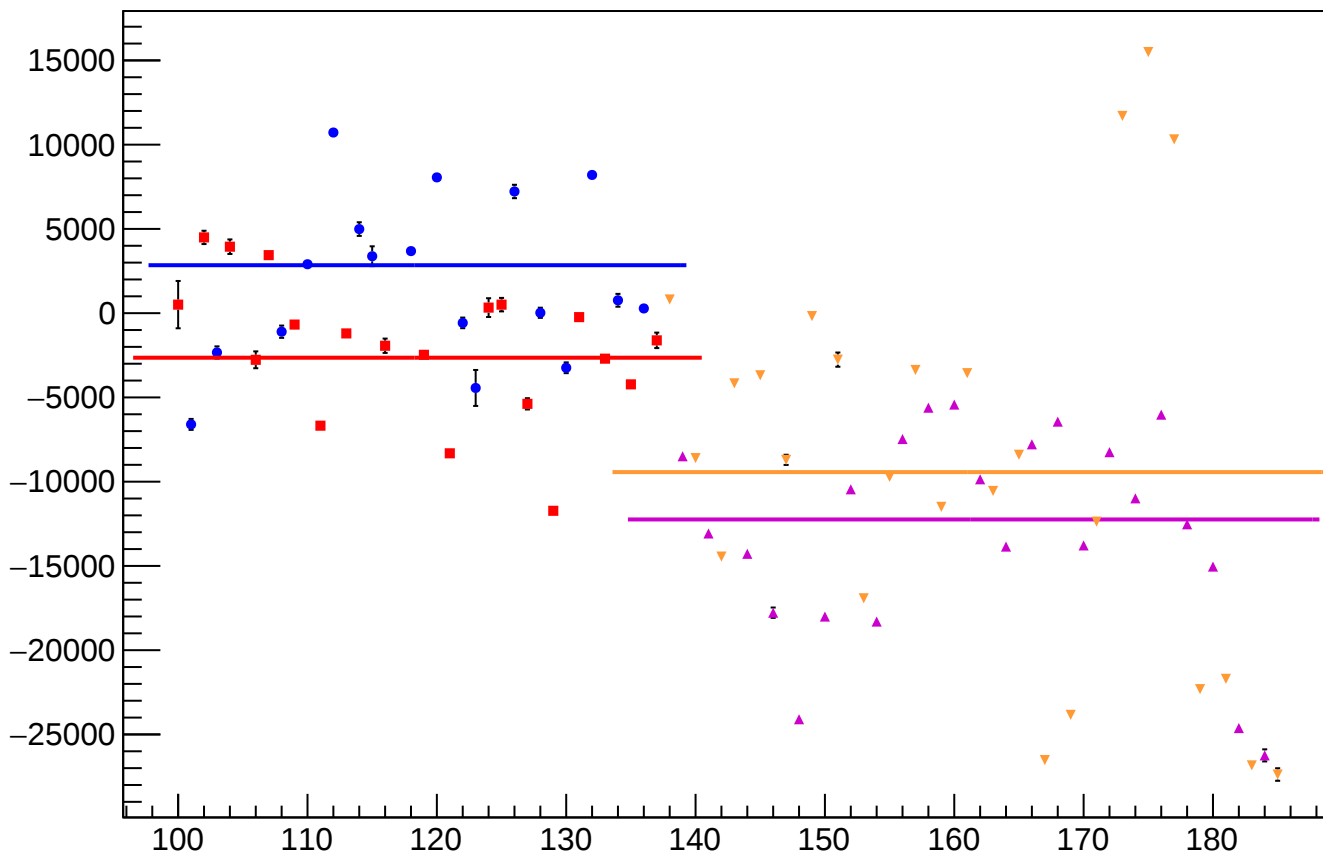
Right: 133.830 $\pm$ 0.027 χ^2/NDF : 1488063.7/35

In: 161.330 $\pm$ 0.024 χ^2/NDF :2705447.5/39

Out: 159.117 $\pm$ 0.023 χ^2/NDF :3217084.3/43

All: 160.176 $\pm$ 0.017 χ^2/NDF : 5926830.7/83

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117+/-70.894 χ^2/NDF : 4160.1/16

Left Out: -9431.211+/-45.640 χ^2/NDF : 62223.5/24

Right Out: -2643.505+/-65.711 χ^2/NDF : 3177.7/18

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.906+/-31.656 χ^2/NDF : 80807.8/47

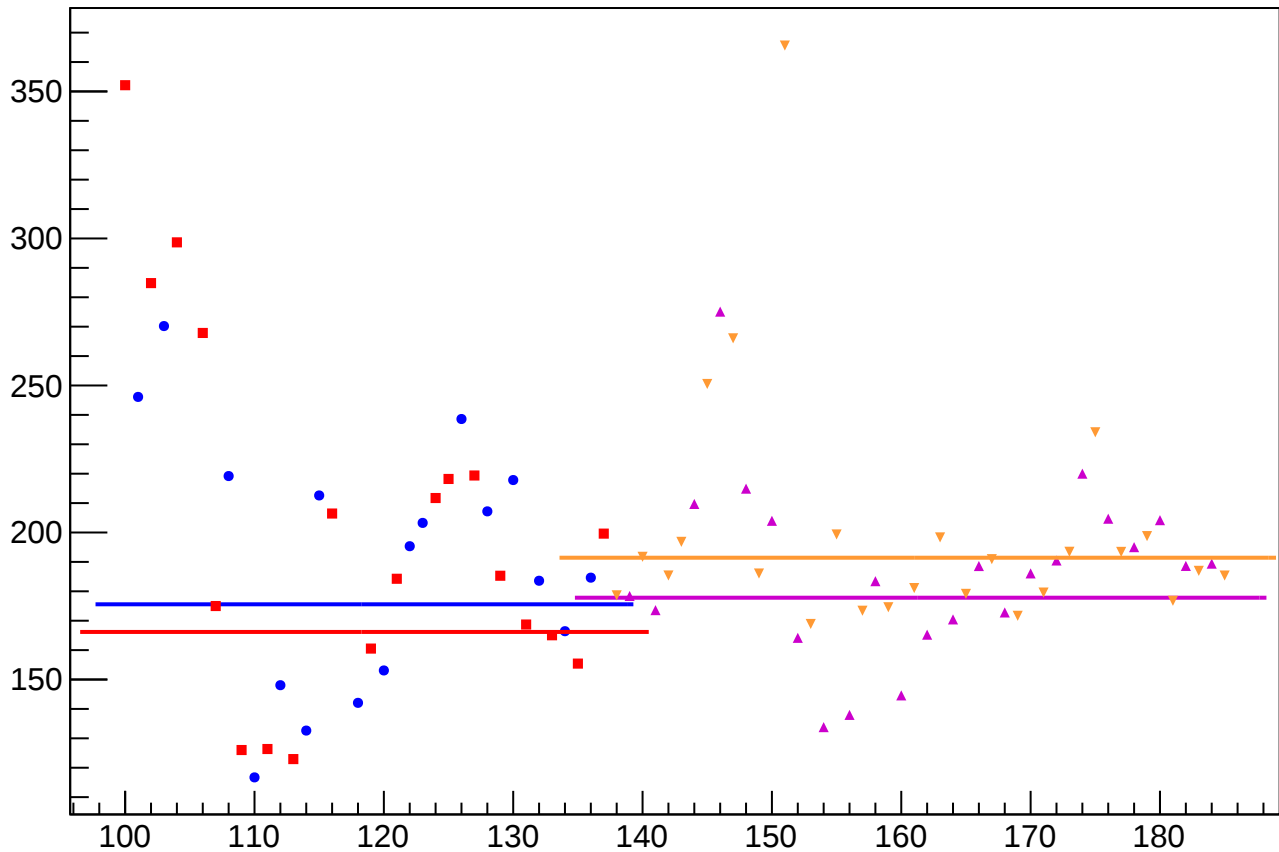
Right: -106.685+/-48.193 χ^2/NDF : 10563.0/35

In: -8054.077+/-37.351 χ^2/NDF : 53499.1/39

Out: -7222.334+/-37.485 χ^2/NDF : 72599.1/43

All: -7639.701+/-26.458 χ^2/NDF : 126345.2/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582+/-0.050 χ^2/NDF : 687852.4/16

Left Out: 191.425+/-0.032 χ^2/NDF : 726315.0/24

Right Out: 166.180+/-0.046 χ^2/NDF : 925559.0/18

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.366+/-0.022 χ^2/NDF : 1681006.9/47

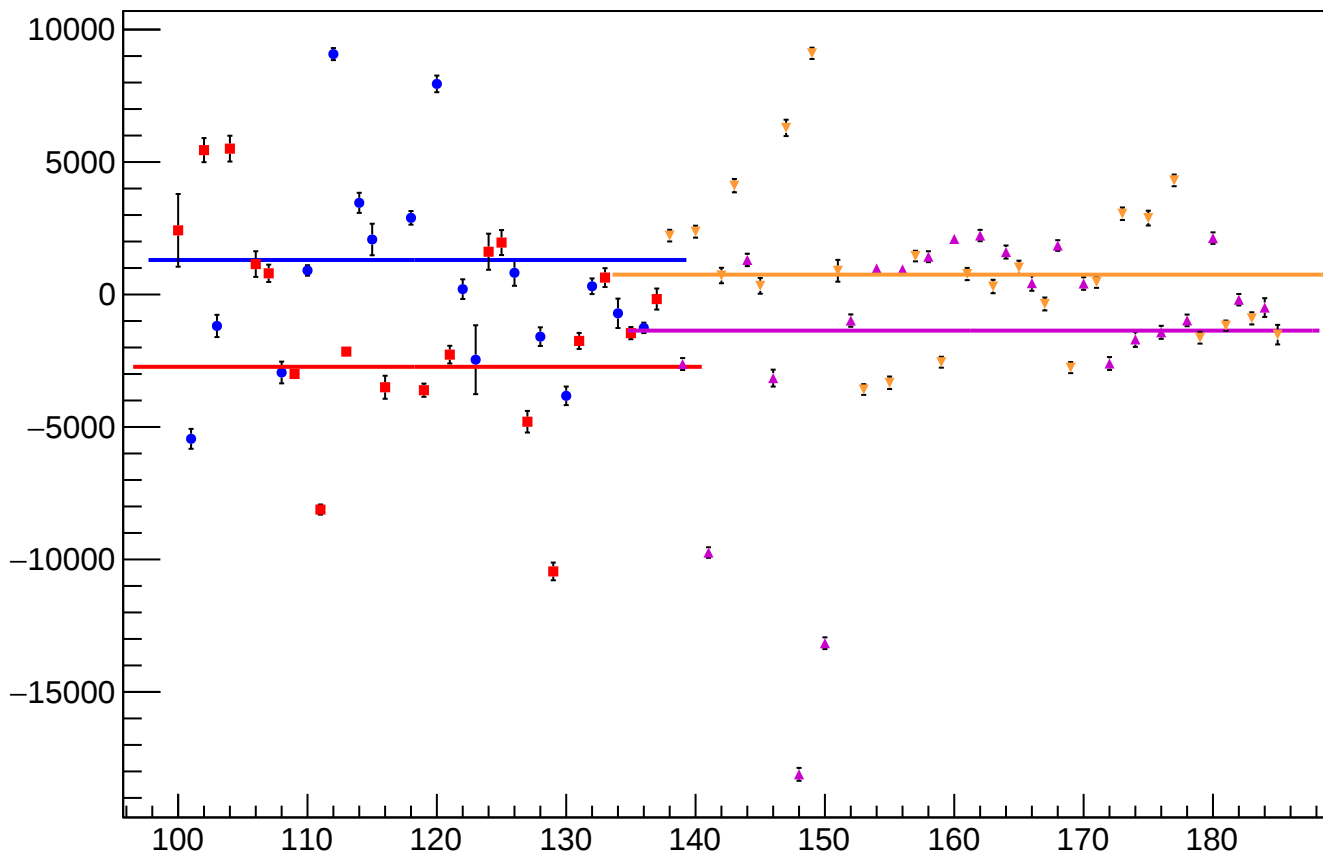
Right: 170.525+/-0.034 χ^2/NDF : 1632331.4/35

In: 177.200+/-0.026 χ^2/NDF : 1551788.7/39

Out: 183.210+/-0.027 χ^2/NDF : 1850997.2/43

All: 180.194+/-0.019 χ^2/NDF : 3428581.0/83

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 ± 77.323 $\chi^2/\text{NDF}: 2649.9/16$

Left Out: 749.740 ± 47.570 $\chi^2/\text{NDF}: 4184.4/24$

Right Out: -2729.355 ± 70.012 $\chi^2/\text{NDF}: 2497.2/18$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -346.531 ± 32.996 $\chi^2/\text{NDF}: 16840.8/47$

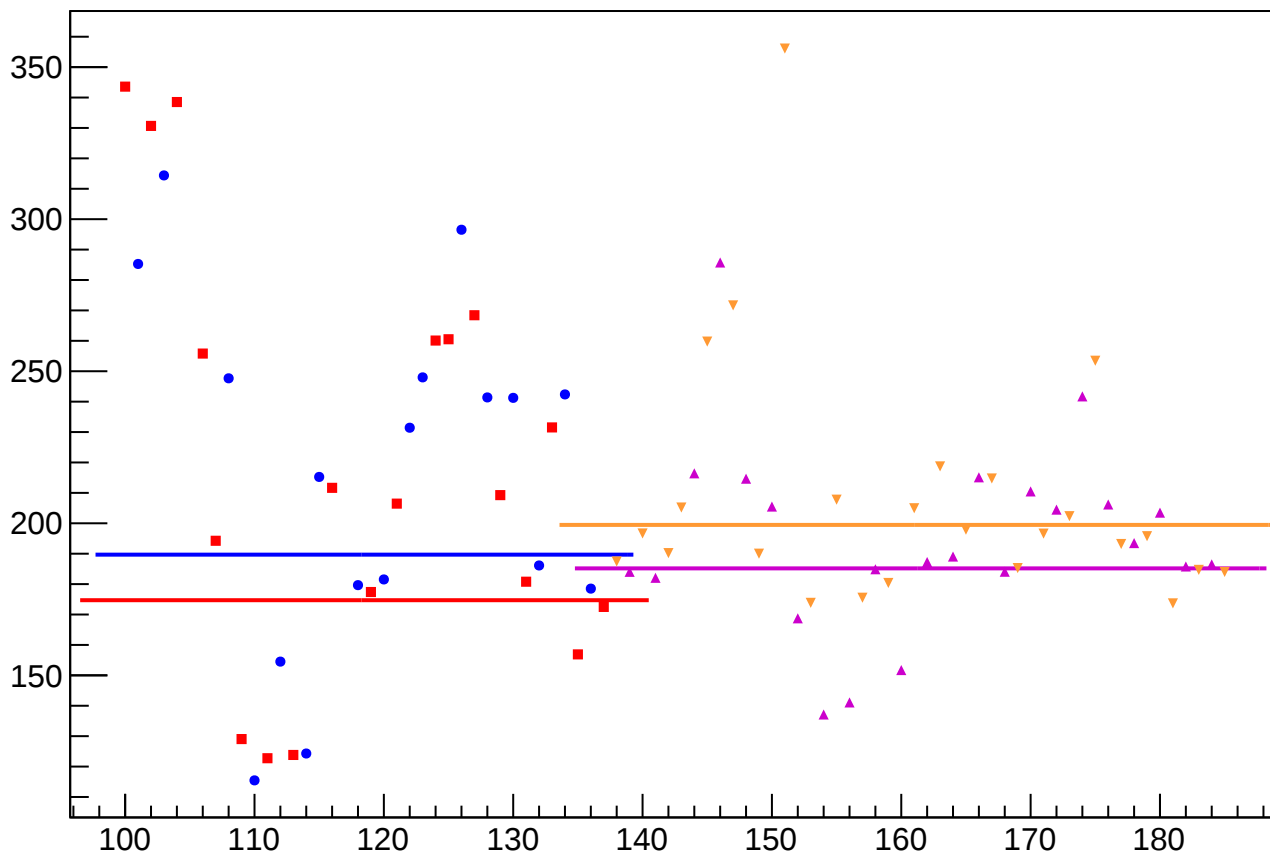
Right: -912.817 ± 51.899 $\chi^2/\text{NDF}: 6641.4/35$

In: -670.480 ± 39.410 $\chi^2/\text{NDF}: 15162.7/39$

Out: -349.120 ± 39.347 $\chi^2/\text{NDF}: 8371.0/43$

All: -509.540 ± 27.845 $\chi^2/\text{NDF}: 23567.0/83$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2 /NDF: 977199.2/16

Left Out: 199.468 $\pm$ 0.034 χ^2 /NDF: 728313.9/24

Right Out: 174.707 $\pm$ 0.050 χ^2 /NDF: 1291115.5/18

Left In: 185.171 $\pm$ 0.032 χ^2 /NDF: 882752.2/22

Left: 192.050 $\pm$ 0.023 χ^2 /NDF: 1704816.2/47

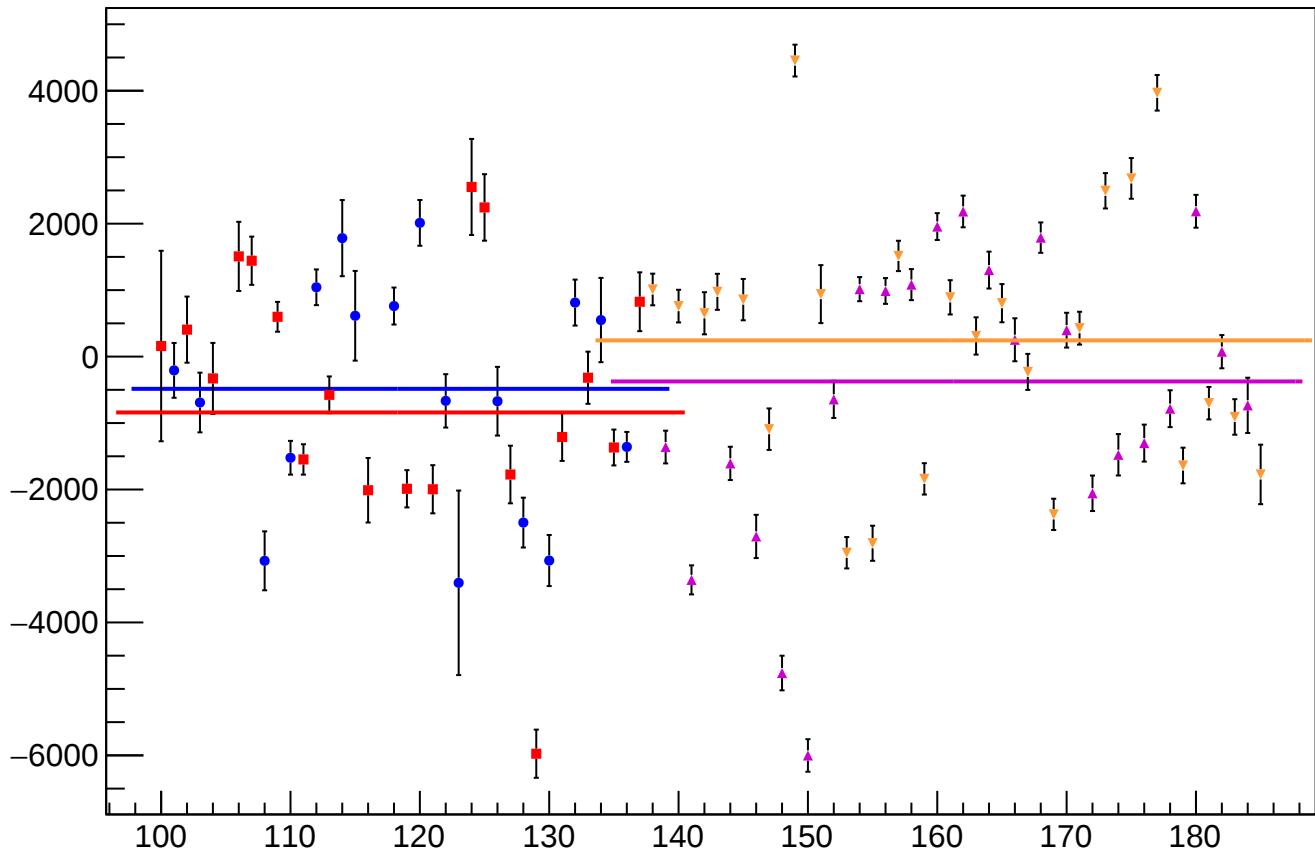
Right: 181.455 $\pm$ 0.037 χ^2 /NDF: 2309563.7/35

In: 186.344 $\pm$ 0.028 χ^2 /NDF: 1865002.0/39

Out: 191.648 $\pm$ 0.028 χ^2 /NDF: 2190589.6/43

All: 189.000 $\pm$ 0.020 χ^2 /NDF: 4073731.9/83

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Left: -74.936 ± 37.373 χ^2/NDF : 3222.3/47

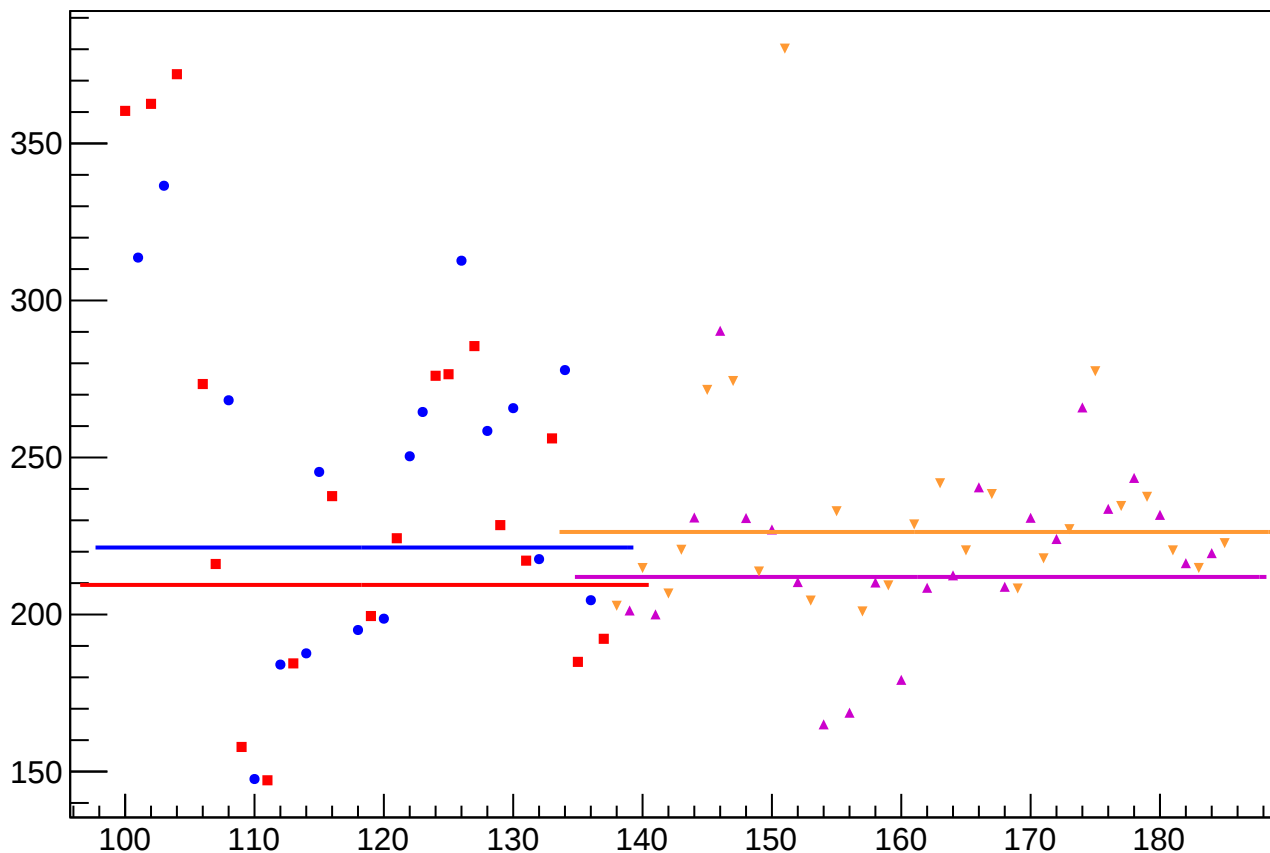
Right: -676.425 ± 60.332 χ^2/NDF : 732.1/35

In: -402.489 ± 44.902 χ^2/NDF : 2087.5/39

Out: -80.573 ± 44.960 χ^2/NDF : 1913.2/43

All: -241.737 ± 31.771 χ^2/NDF : 4026.3/83

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 $\pm$ 0.063 χ^2 /NDF: 645507.4/16

Left Out: 226.292 $\pm$ 0.038 χ^2 /NDF: 521295.3/24

Right Out: 209.428 $\pm$ 0.058 χ^2 /NDF: 879292.0/18

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.908 $\pm$ 0.026 χ^2 /NDF: 1178993.8/47

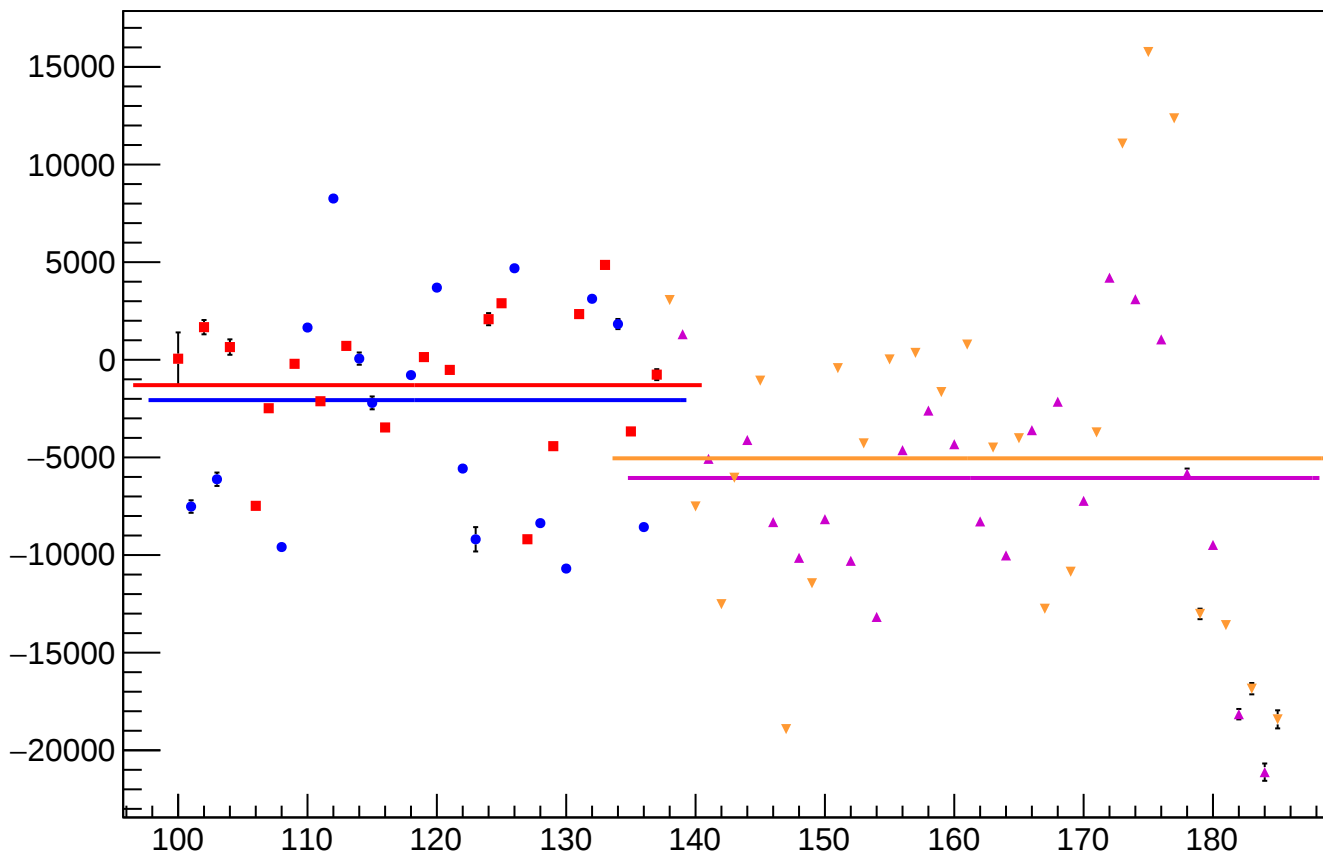
Right: 214.927 $\pm$ 0.043 χ^2 /NDF: 1544173.7/35

In: 214.366 $\pm$ 0.032 χ^2 /NDF: 1246424.7/39

Out: 221.251 $\pm$ 0.032 χ^2 /NDF: 1459557.2/43

All: 217.804 $\pm$ 0.022 χ^2 /NDF: 2729459.3/83

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 ± 47.407 $\chi^2/\text{NDF}: 16535.7/16$

Left Out: -5045.946 ± 33.843 $\chi^2/\text{NDF}: 54291.2/24$

Right Out: -1298.632 ± 44.980 $\chi^2/\text{NDF}: 5909.5/18$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5532.856 ± 24.329 $\chi^2/\text{NDF}: 72309.8/47$

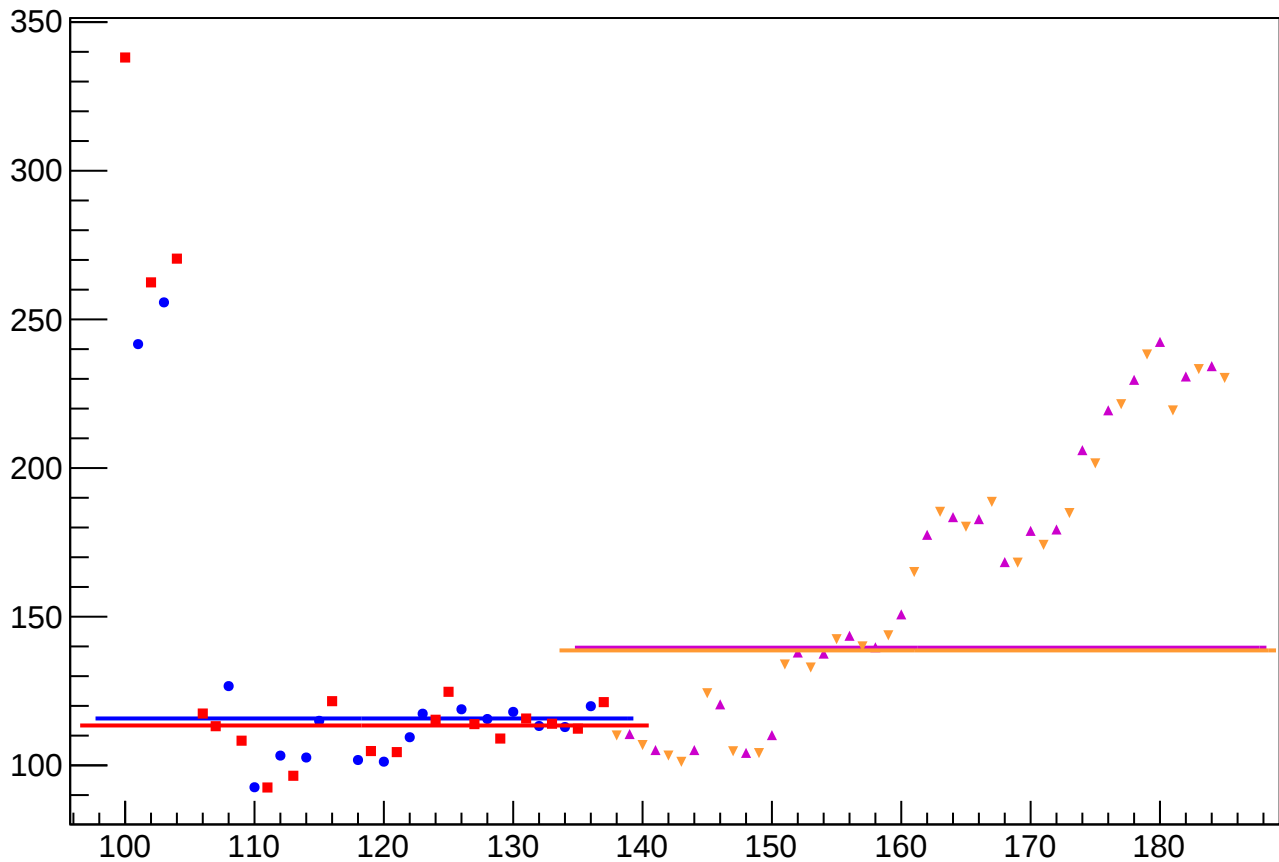
Right: -1661.949 ± 32.630 $\chi^2/\text{NDF}: 22582.8/35$

In: -4646.764 ± 28.156 $\chi^2/\text{NDF}: 38706.4/39$

Out: -3691.401 ± 27.043 $\chi^2/\text{NDF}: 64632.4/43$

All: -4149.824 ± 19.504 $\chi^2/\text{NDF}: 103937.7/8$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768 $\pm$ 0.034 χ^2 /NDF: 743657.8/16

Left Out: 138.660 $\pm$ 0.024 χ^2 /NDF: 2537609.9/24

Right Out: 113.410 $\pm$ 0.032 χ^2 /NDF: 795303.3/18

Left In: 139.578 $\pm$ 0.025 χ^2 /NDF: 2413658.9/22

Left: 139.104 $\pm$ 0.017 χ^2 /NDF: 4951978.9/47

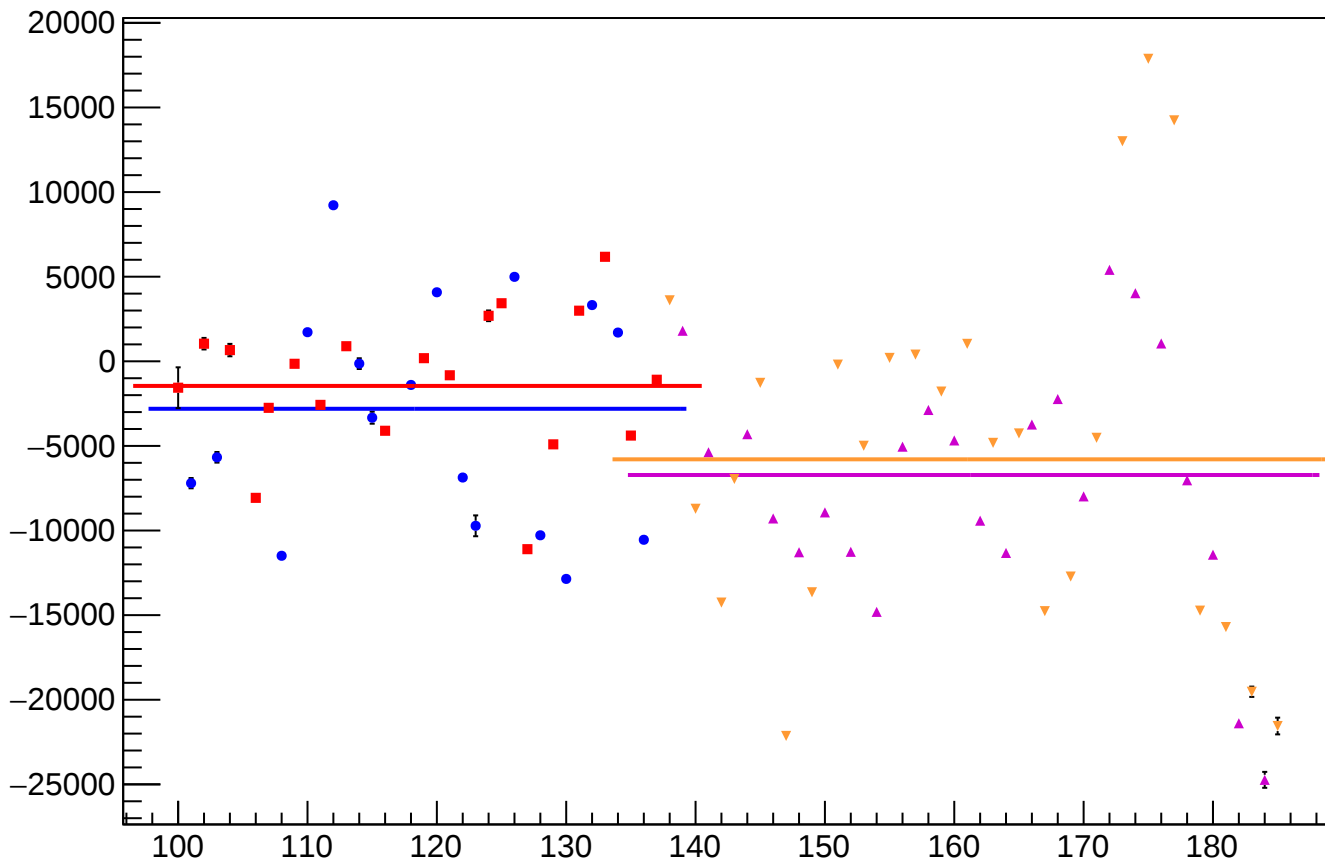
Right: 114.527 $\pm$ 0.023 χ^2 /NDF: 1541564.1/35

In: 131.179 $\pm$ 0.020 χ^2 /NDF: 3483854.6/39

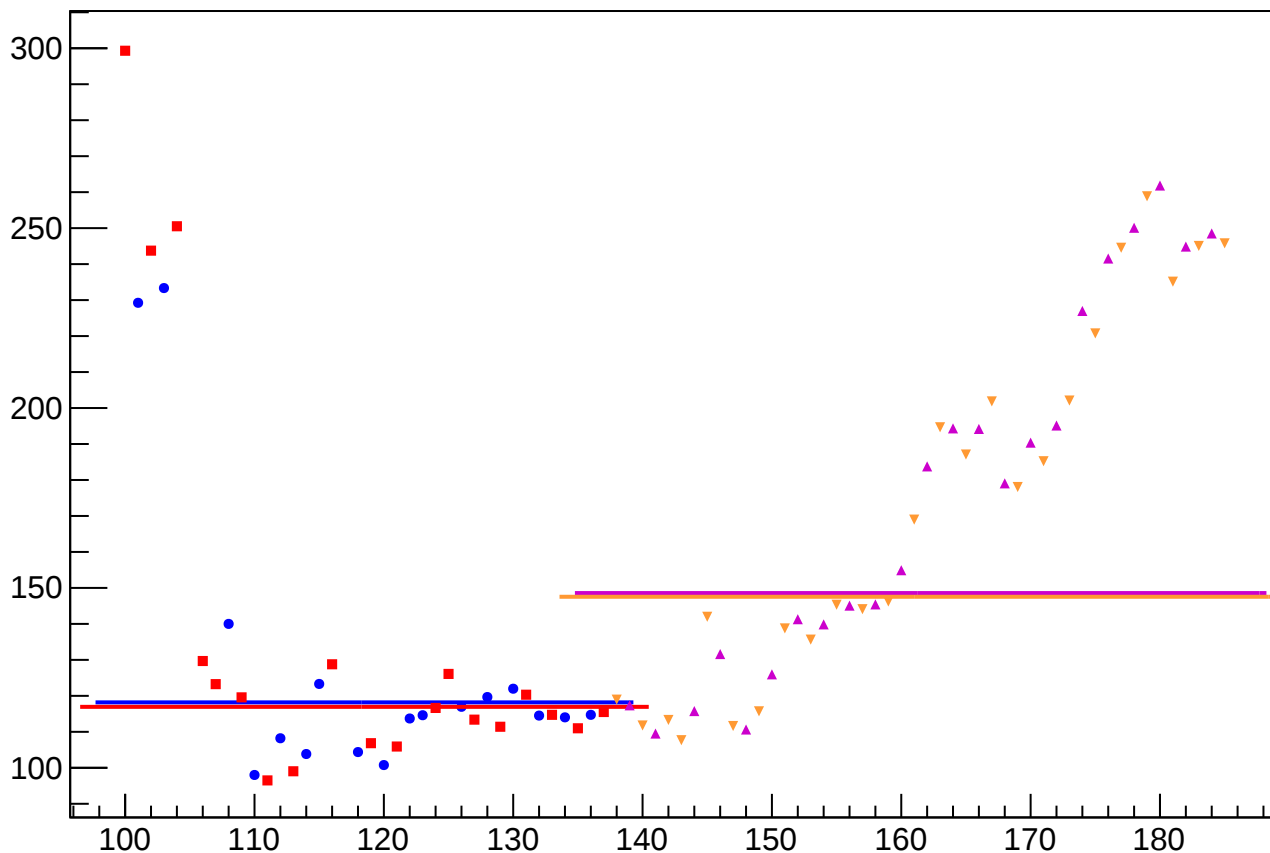
Out: 129.533 $\pm$ 0.019 χ^2 /NDF: 3735349.4/43

All: 130.323 $\pm$ 0.014 χ^2 /NDF: 7222757.0/83

asym_bpm2i01WS_mean vs Slug, Sign Corrected



asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.187 $\pm$ 0.034 χ^2/NDF : 636345.5/16

Left Out: 147.539 $\pm$ 0.025 χ^2/NDF : 2501105.2/24

Right Out: 116.944 $\pm$ 0.033 χ^2/NDF : 689368.0/18

Left In: 148.569 $\pm$ 0.026 χ^2/NDF : 2393185.0/22

Left: 148.036 $\pm$ 0.018 χ^2/NDF : 4895078.3/47

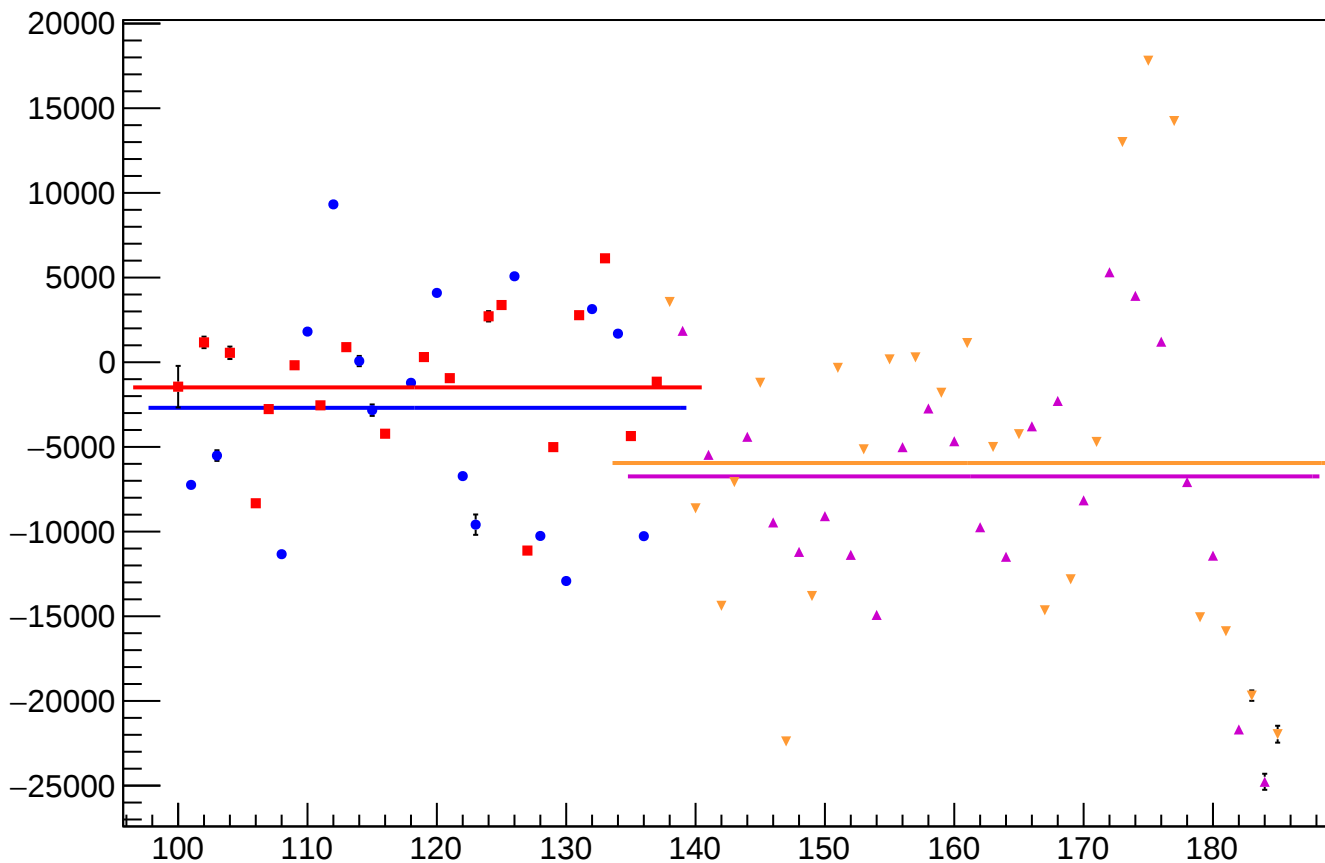
Right: 117.539 $\pm$ 0.024 χ^2/NDF : 1326402.5/35

In: 137.245 $\pm$ 0.021 χ^2/NDF : 3524720.9/39

Out: 136.024 $\pm$ 0.020 χ^2/NDF : 3733442.9/43

All: 136.612 $\pm$ 0.014 χ^2/NDF : 7259936.9/83

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2691.569+/-46.420 χ^2/NDF : 22847.7/16

Left Out: -5950.415+/-35.223 χ^2/NDF : 67712.3/24

Right Out: -1484.889+/-44.421 χ^2/NDF : 8724.0/18

Left In: -6740.666+/-36.379 χ^2/NDF : 22071.8/22

Left: -6332.783+/-25.305 χ^2/NDF : 90027.7/47

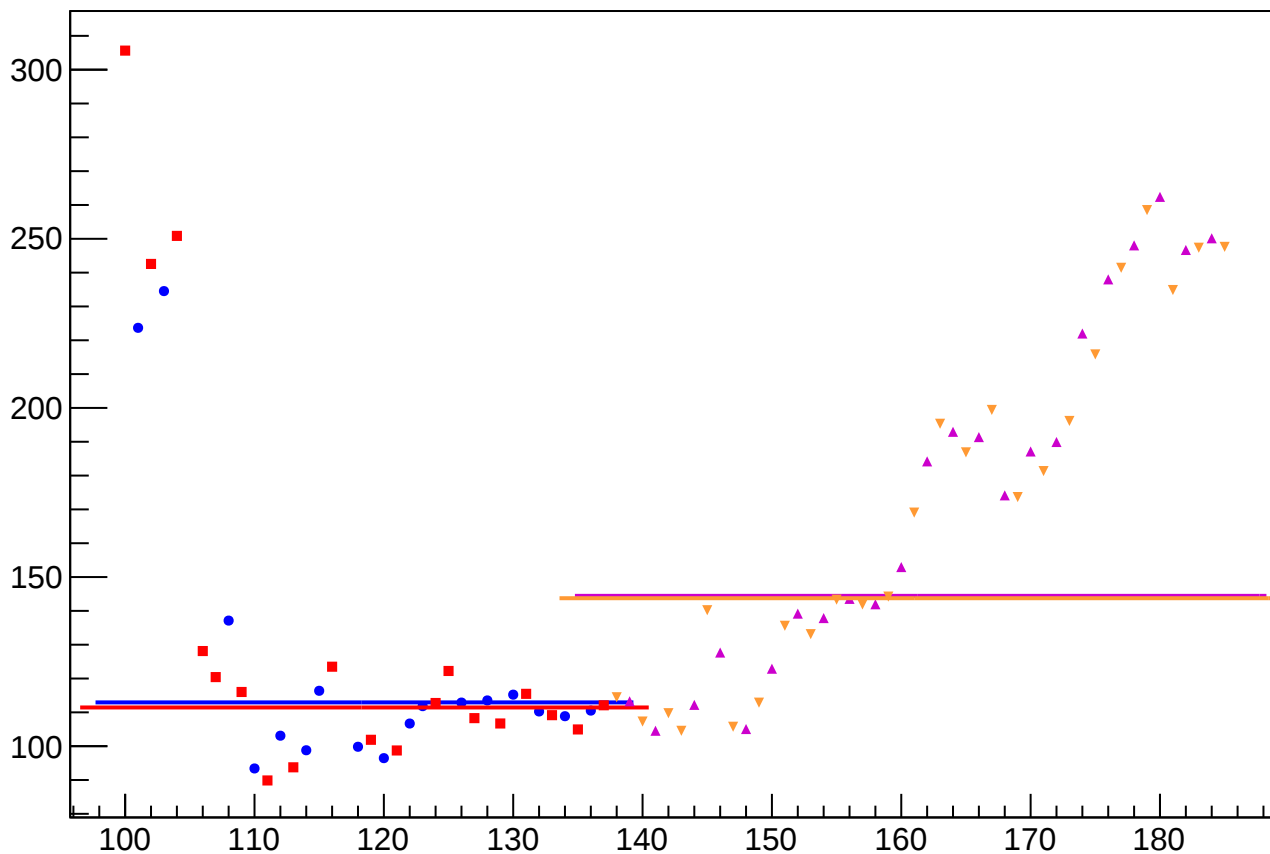
Right: -2061.688+/-32.094 χ^2/NDF : 31924.4/35

In: -5199.994+/-28.634 χ^2/NDF : 49633.1/39

Out: -4226.556+/-27.599 χ^2/NDF : 82641.0/43

All: -4695.377+/-19.871 χ^2/NDF : 132873.2/86

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.944 $\pm$ 0.033 χ^2 /NDF: 680438.6/16

Left Out: 143.743 $\pm$ 0.025 χ^2 /NDF: 2694737.4/24

Right Out: 111.444 $\pm$ 0.031 χ^2 /NDF: 764132.1/18

Left In: 144.440 $\pm$ 0.026 χ^2 /NDF: 2586926.1/22

Left: 144.080 $\pm$ 0.018 χ^2 /NDF: 5282042.3/47

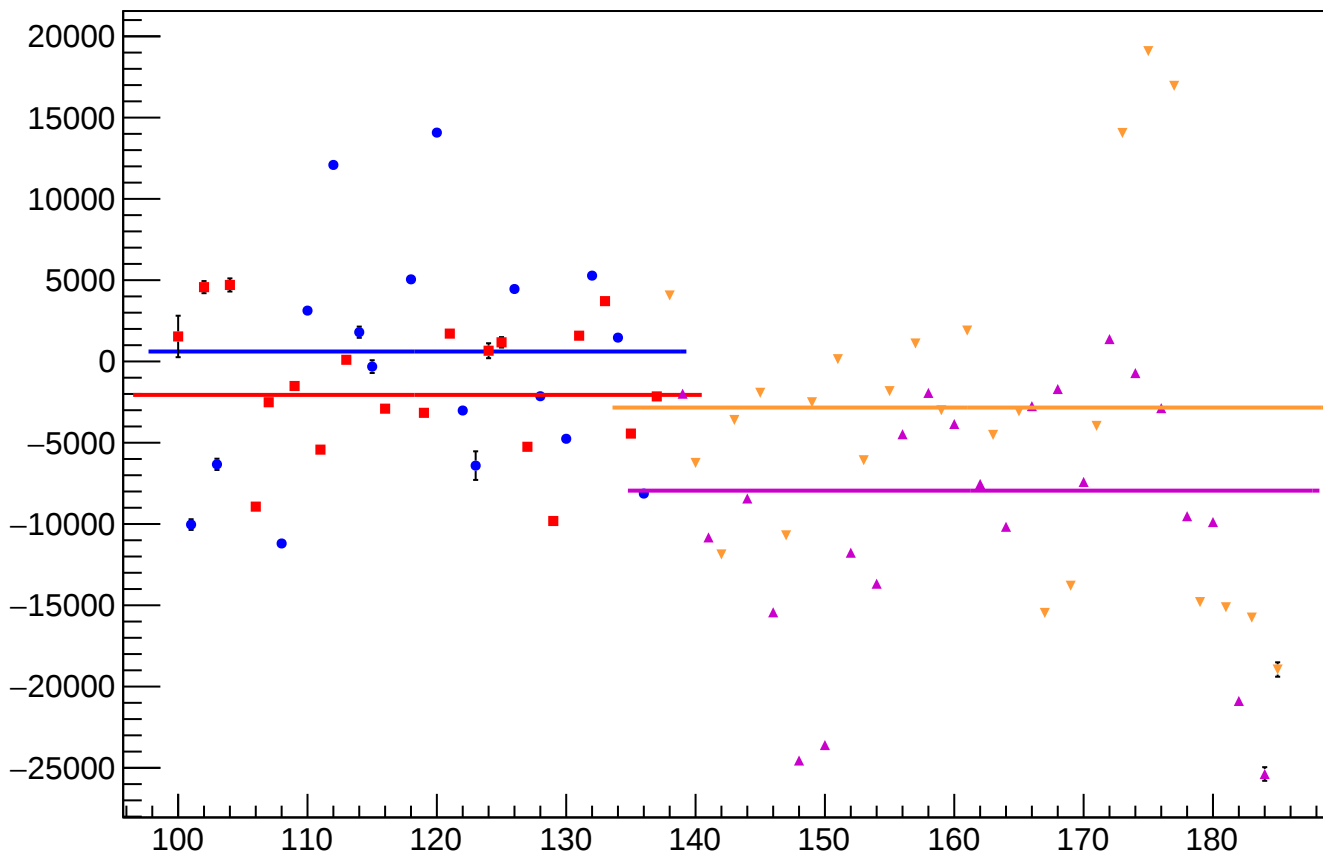
Right: 112.161 $\pm$ 0.023 χ^2 /NDF: 1445660.4/35

In: 132.456 $\pm$ 0.020 χ^2 /NDF: 3837761.6/39

Out: 131.274 $\pm$ 0.020 χ^2 /NDF: 4108060.1/43

All: 131.843 $\pm$ 0.014 χ^2 /NDF: 7947586.2/83

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Left: -5257.850 ± 28.721 $\chi^2/\text{NDF}: 78135.5/47$

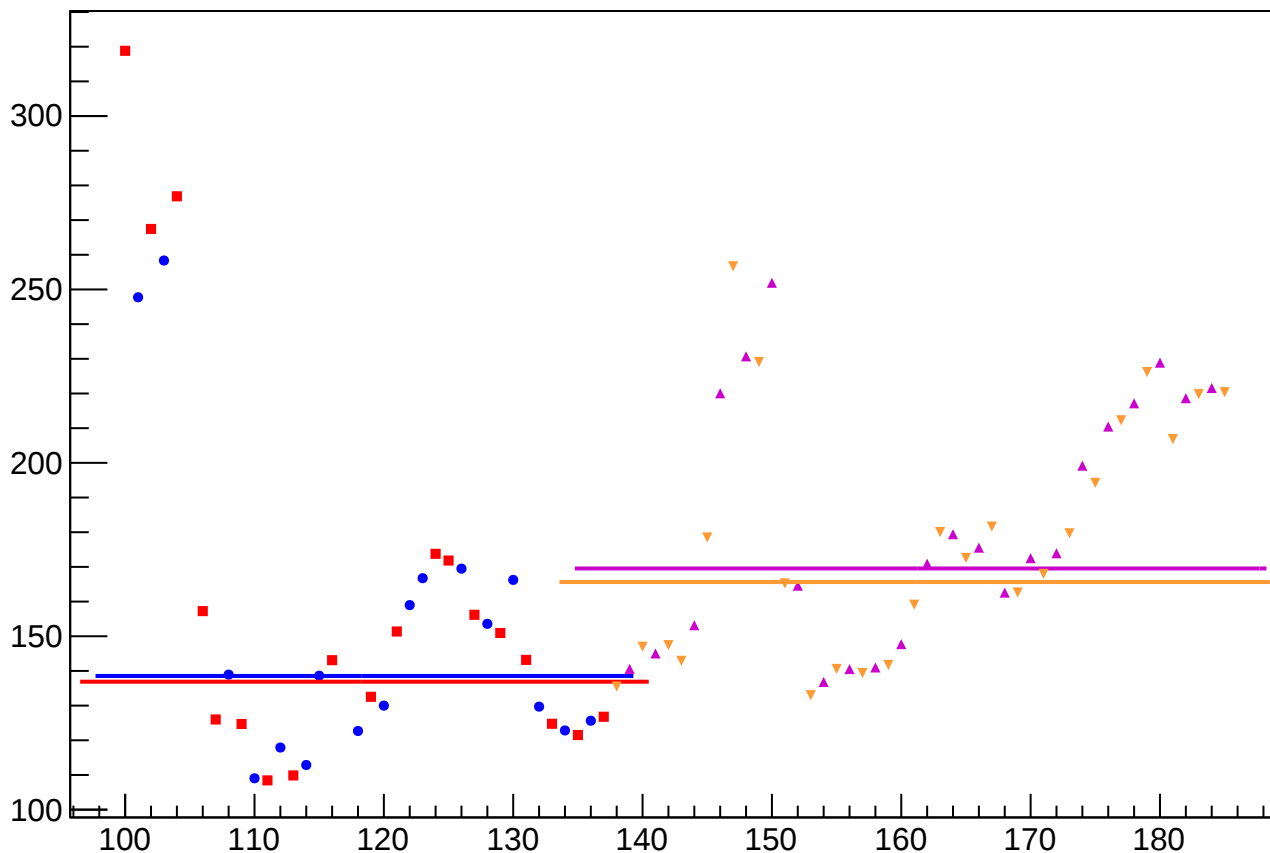
Right: -777.832 ± 38.887 $\chi^2/\text{NDF}: 24073.0/35$

In: -4902.807 ± 33.492 $\chi^2/\text{NDF}: 57087.3/39$

Out: -2563.524 ± 31.910 $\chi^2/\text{NDF}: 51152.0/43$

All: -3676.614 ± 23.103 $\chi^2/\text{NDF}: 110796.5/8$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.549 $\pm$ 0.040 χ^2 /NDF: 667663.4/16

Left Out: 165.636 $\pm$ 0.028 χ^2 /NDF:1146164.6/24

Right Out: 136.895 $\pm$ 0.038 χ^2 /NDF: 751443.4/18

Left In: 169.542 $\pm$ 0.030 χ^2 /NDF:1159241.9/22

Left: 167.486 $\pm$ 0.020 χ^2 /NDF: 2314628.6/47

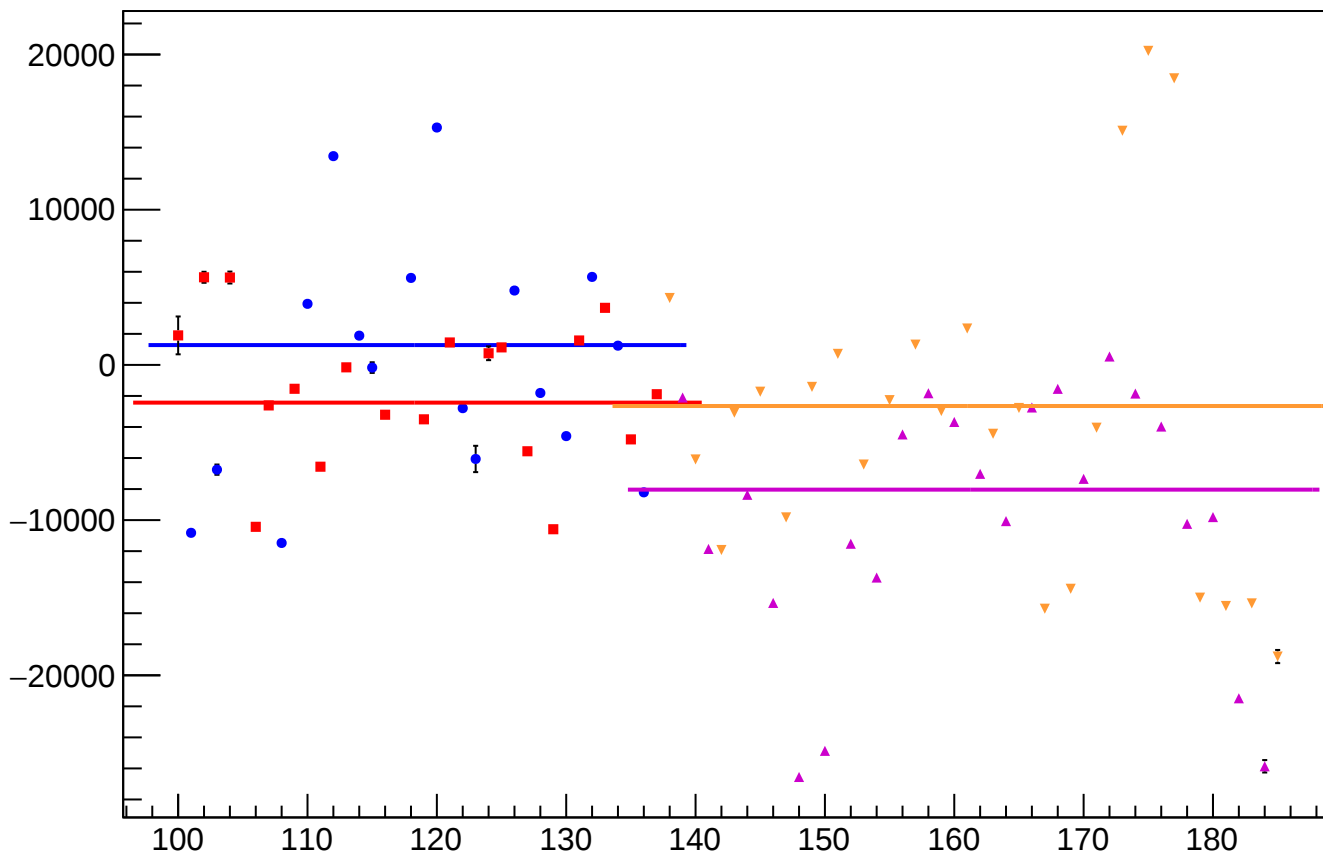
Right: 137.688 $\pm$ 0.027 χ^2 /NDF: 1420010.0/35

In: 158.517 $\pm$ 0.024 χ^2 /NDF:2219414.9/39

Out: 155.564 $\pm$ 0.023 χ^2 /NDF:2266929.1/43

All: 156.969 $\pm$ 0.016 χ^2 /NDF: 4494492.7/83

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1277.751 $\pm$ 46.646 χ^2 /NDF: 30549.2/16

Left Out: -2648.221 $\pm$ 35.866 χ^2 /NDF:56776.0/24

Right Out: -2430.297 $\pm$ 44.264 χ^2 /NDF: 7696.9/18

Left In: -8036.826 $\pm$ 37.924 χ^2 /NDF:29261.6/22

Left: -5192.341 $\pm$ 26.058 χ^2 /NDF: 96694.8/47

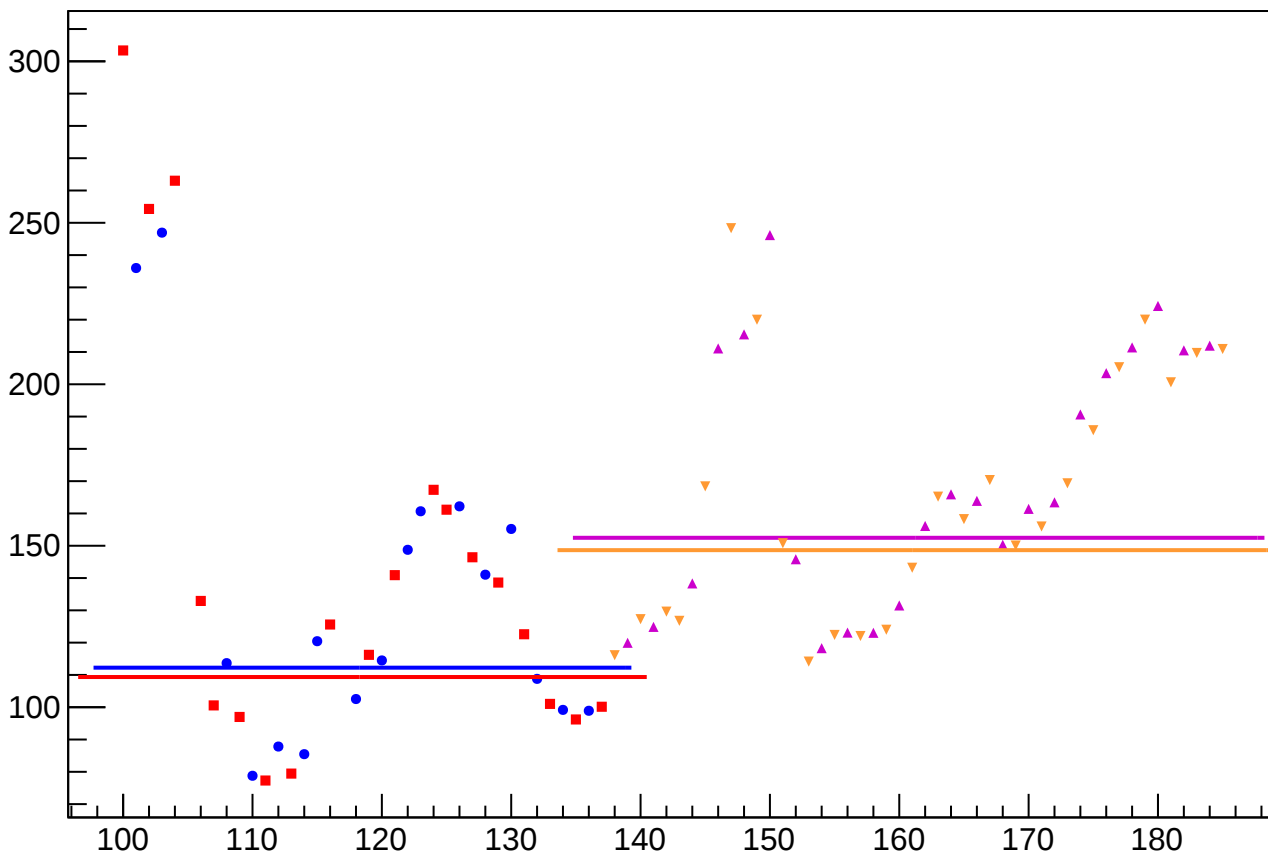
Right: -673.335 $\pm$ 32.109 χ^2 /NDF: 41571.1/35

In: -4330.006 $\pm$ 29.426 χ^2 /NDF:83817.2/39

Out: -2561.851 $\pm$ 27.867 χ^2 /NDF:64487.5/43

All: -3397.839 $\pm$ 20.234 χ^2 /NDF: 150208.2/8

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.247+/-0.033 χ^2/NDF : 1123602.1/16

Left Out: 148.637+/-0.025 χ^2/NDF : 1686425.7/24

Right Out: 109.351+/-0.031 χ^2/NDF : 1263029.6/18

Left In: 152.463+/-0.027 χ^2/NDF : 1691517.7/22

Left: 150.444+/-0.018 χ^2/NDF : 3388690.2/47

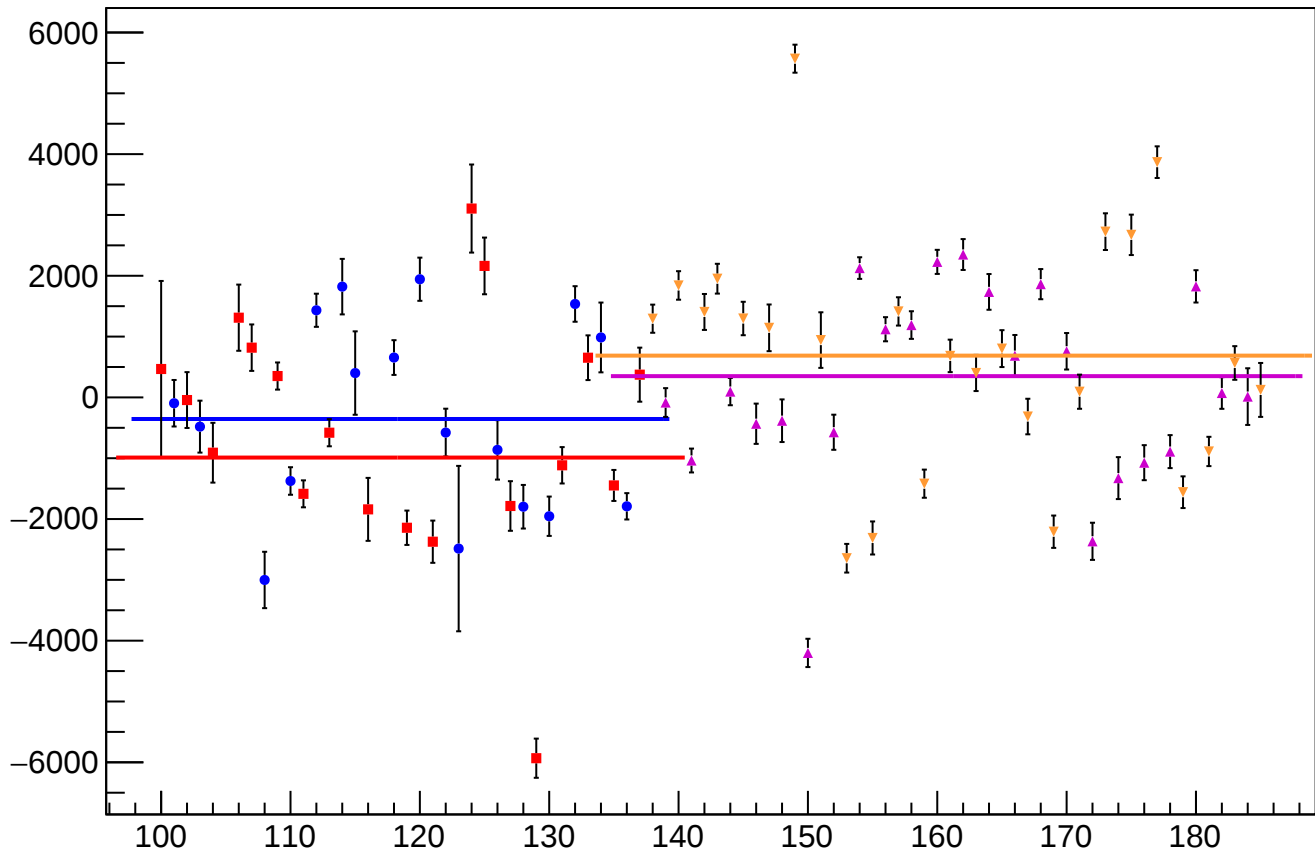
Right: 110.723+/-0.023 χ^2/NDF : 2390689.7/35

In: 136.459+/-0.021 χ^2/NDF : 3710132.3/39

Out: 133.067+/-0.020 χ^2/NDF : 3900497.8/43

All: 134.671+/-0.014 χ^2/NDF : 7624643.8/83

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -354.938 ± 84.016 $\chi^2/\text{NDF}: 310.6/16$

Left Out: 686.936 ± 54.474 $\chi^2/\text{NDF}: 1419.4/24$

Right Out: -989.192 ± 77.653 $\chi^2/\text{NDF}: 477.2/18$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 513.952 ± 38.022 $\chi^2/\text{NDF}: 2420.0/47$

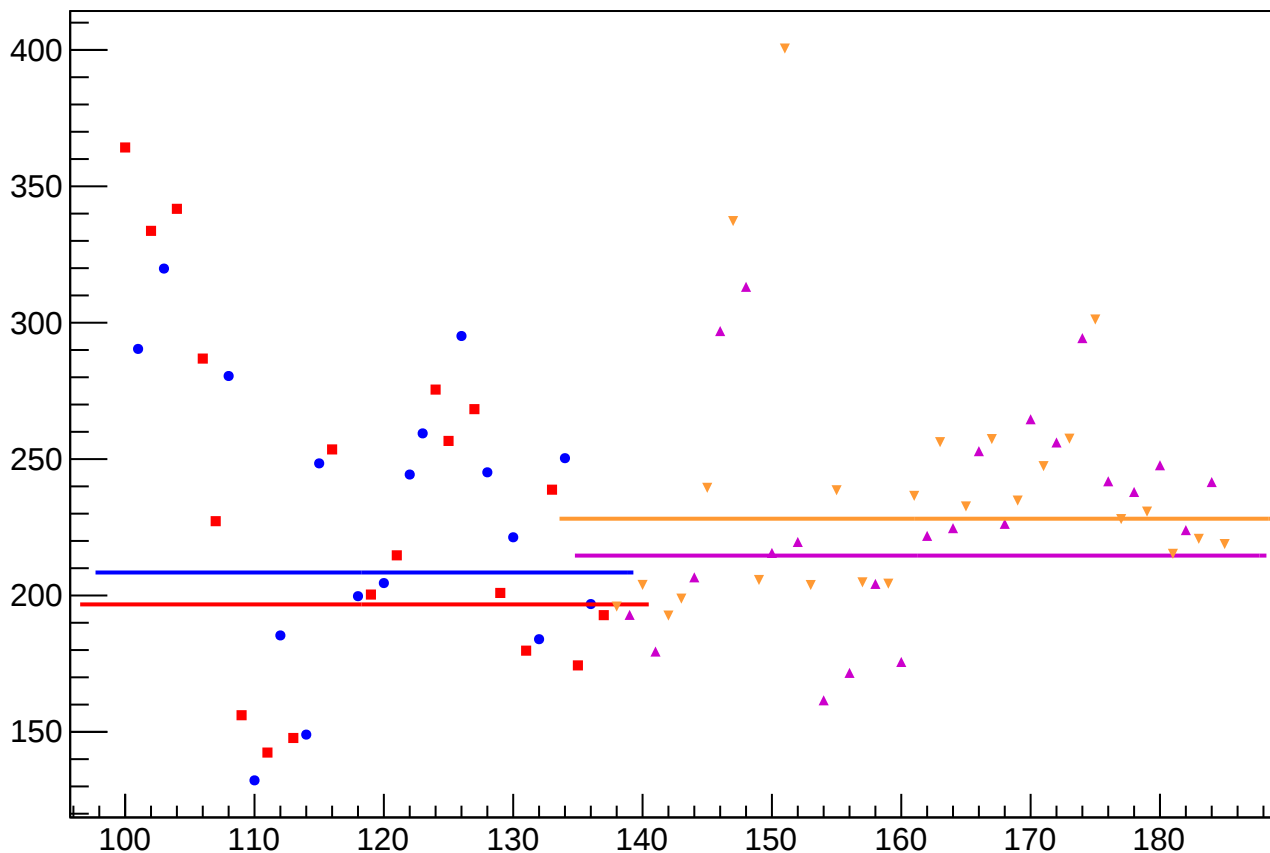
Right: -696.988 ± 57.026 $\chi^2/\text{NDF}: 818.5/35$

In: 148.548 ± 44.883 $\chi^2/\text{NDF}: 1341.8/39$

Out: 134.131 ± 44.595 $\chi^2/\text{NDF}: 2208.8/43$

All: 141.293 ± 31.635 $\chi^2/\text{NDF}: 3550.7/83$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.429 $\pm$ 0.059 χ^2/NDF : 696957.4/16

Left Out: 228.148 $\pm$ 0.039 χ^2/NDF : 826371.2/24

Right Out: 196.731 $\pm$ 0.055 χ^2/NDF : 925461.3/18

Left In: 214.627 $\pm$ 0.038 χ^2/NDF : 1025683.3/22

Left: 221.214 $\pm$ 0.027 χ^2/NDF : 1915239.8/47

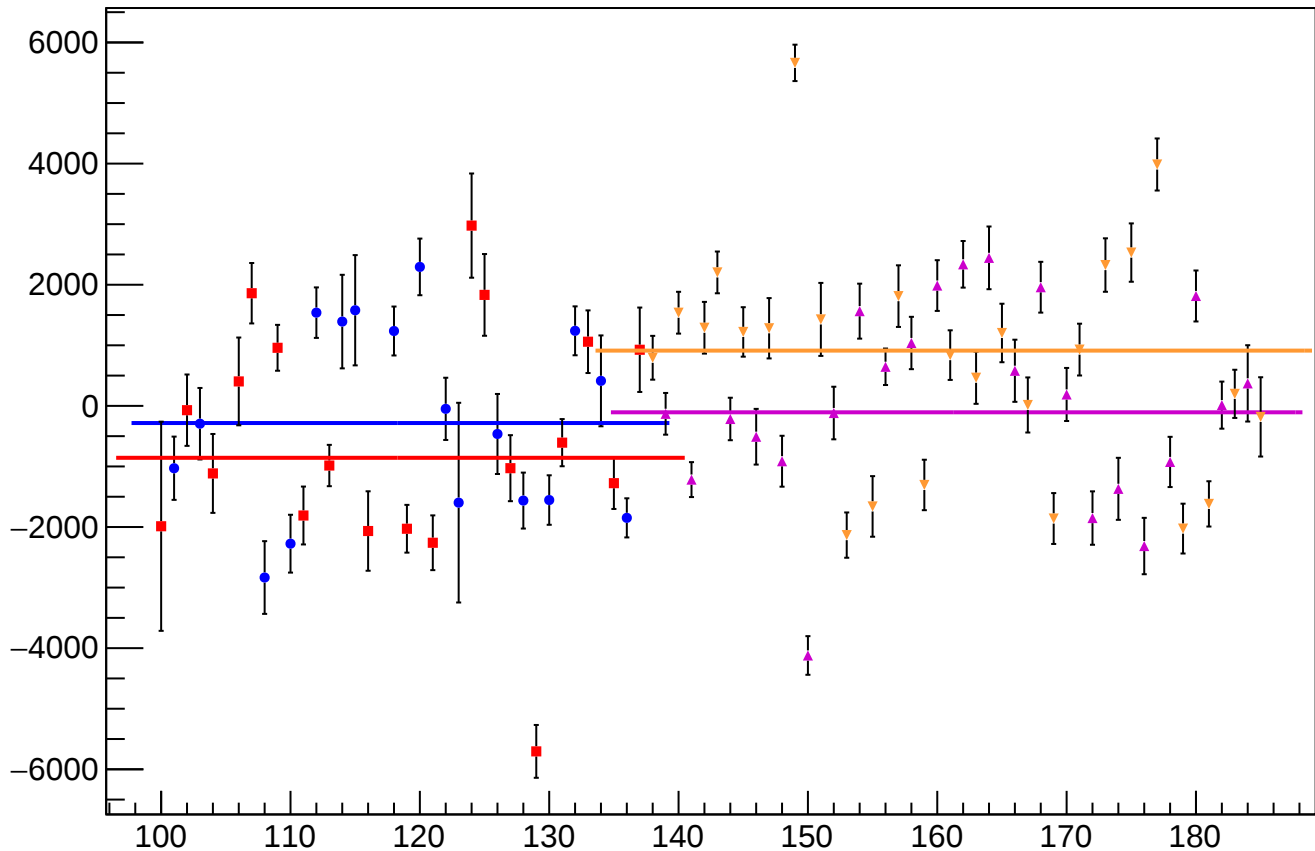
Right: 202.120 $\pm$ 0.040 χ^2/NDF : 1643330.9/35

In: 212.858 $\pm$ 0.032 χ^2/NDF : 1730418.5/39

Out: 217.786 $\pm$ 0.032 χ^2/NDF : 1971235.4/43

All: 215.338 $\pm$ 0.022 χ^2/NDF : 3713785.8/83

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -283.146 $\pm$ 121.564 χ^2/NDF : 166.9/16

Left Out: 912.617 $\pm$ 83.694 χ^2/NDF : 618.8/24

Right Out: -857.162 $\pm$ 115.341 χ^2/NDF : 265.0/18

Left In: -106.116 $\pm$ 84.393 χ^2/NDF : 390.3/22

Left: 407.485 $\pm$ 59.426 χ^2/NDF : 1082.5/47

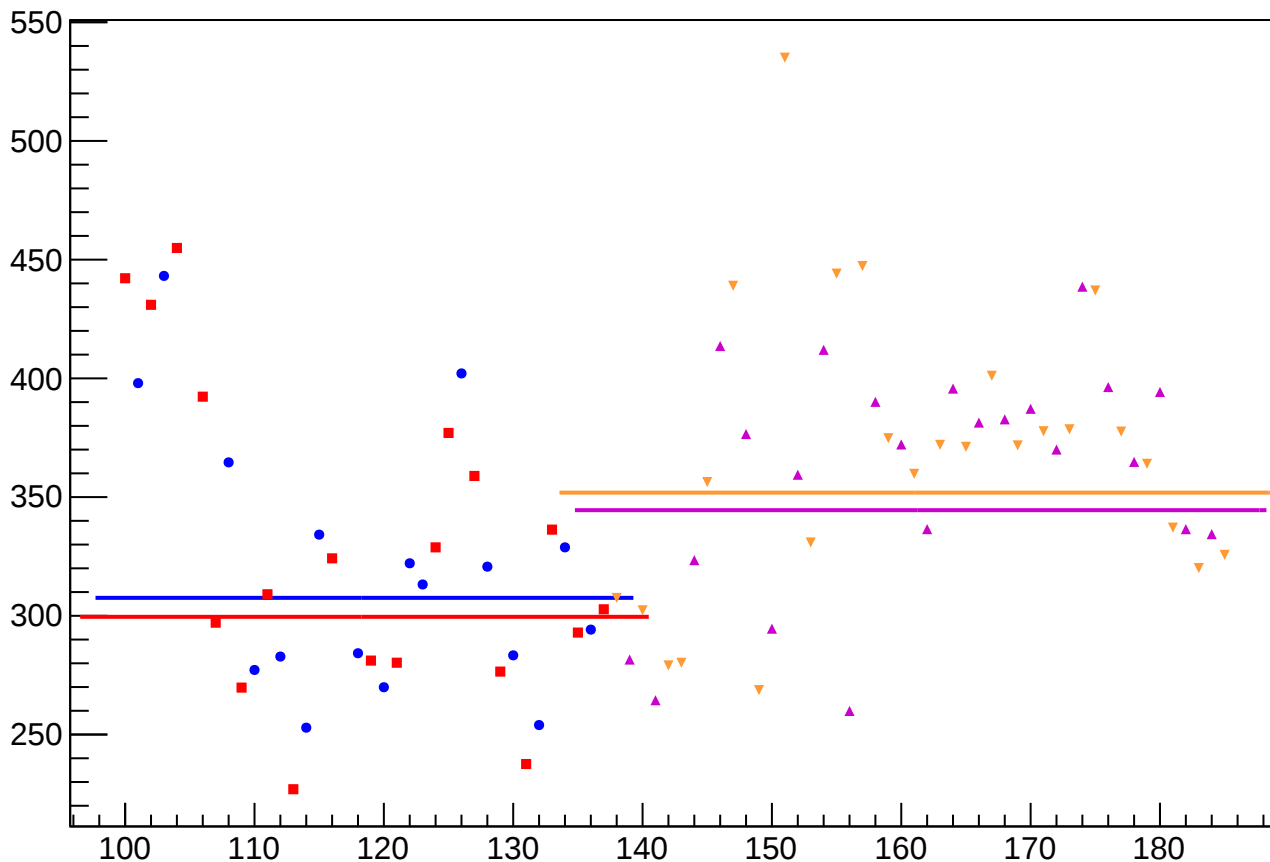
Right: -585.220 $\pm$ 83.672 χ^2/NDF : 443.7/35

In: -163.689 $\pm$ 69.325 χ^2/NDF : 558.6/39

Out: 302.186 $\pm$ 67.740 χ^2/NDF : 1038.0/43

All: 74.636 $\pm$ 48.450 χ^2/NDF : 1619.8/83

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.566 ± 0.086 $\chi^2/\text{NDF}: 321522.0/16$

Left Out: 351.886 ± 0.059 $\chi^2/\text{NDF}: 907444.4/24$

Right Out: 299.577 ± 0.082 $\chi^2/\text{NDF}: 493549.3/18$

Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.219 ± 0.042 $\chi^2/\text{NDF}: 1684073.3/47$

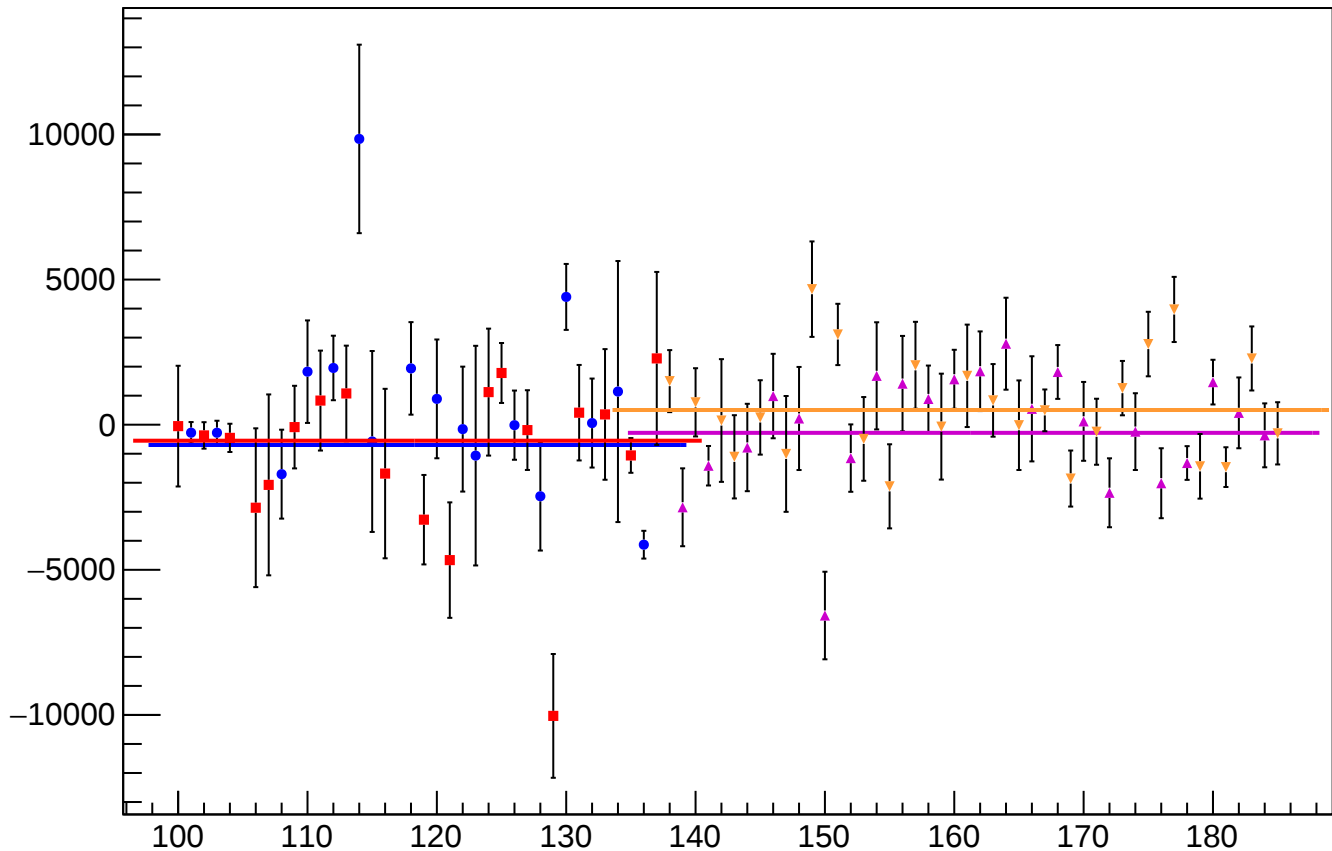
Right: 303.362 ± 0.059 $\chi^2/\text{NDF}: 819617.4/35$

In: 332.482 ± 0.049 $\chi^2/\text{NDF}: 1214921.7/39$

Out: 333.844 ± 0.048 $\chi^2/\text{NDF}: 1670468.1/43$

All: 333.179 ± 0.034 $\chi^2/\text{NDF}: 2885784.5/83$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -699.406 $\pm$ 210.504 χ^2 /NDF: 97.9/16

Left Out: 505.935 $\pm$ 231.404 χ^2 /NDF:56.1/24

Right Out: -551.457 $\pm$ 243.420 χ^2 /NDF: 38.1/18

Left In: -280.692 $\pm$ 232.048 χ^2 /NDF:57.2/22

Left: 113.714 $\pm$ 163.854 χ^2 /NDF: 119.1/47

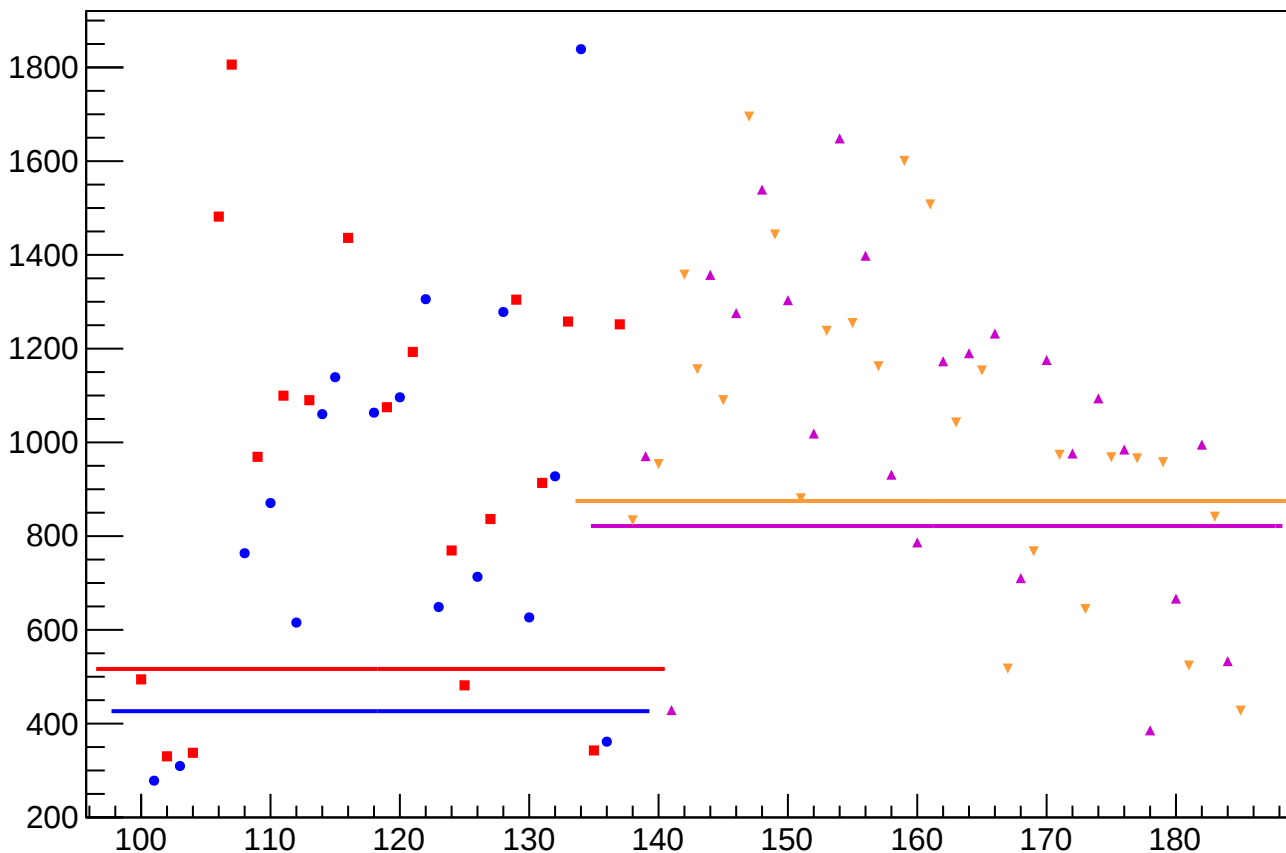
Right: -636.104 $\pm$ 159.224 χ^2 /NDF: 136.3/35

In: -510.384 $\pm$ 155.910 χ^2 /NDF:156.9/39

Out: 3.981 $\pm$ 167.714 χ^2 /NDF:104.2/43

All: -271.938 $\pm$ 114.190 χ^2 /NDF: 266.1/83

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 426.522 +/- 0.149 χ^2/NDF : 2863074.2/16

Left Out: 875.050 +/- 0.164 χ^2/NDF : 3408833.8/24

Right Out: 516.598 +/- 0.172 χ^2/NDF : 3598022.9/18

Left In: 821.657 +/- 0.164 χ^2/NDF : 4443094.2/22

Left: 848.428 +/- 0.116 χ^2/NDF : 7905018.4/47

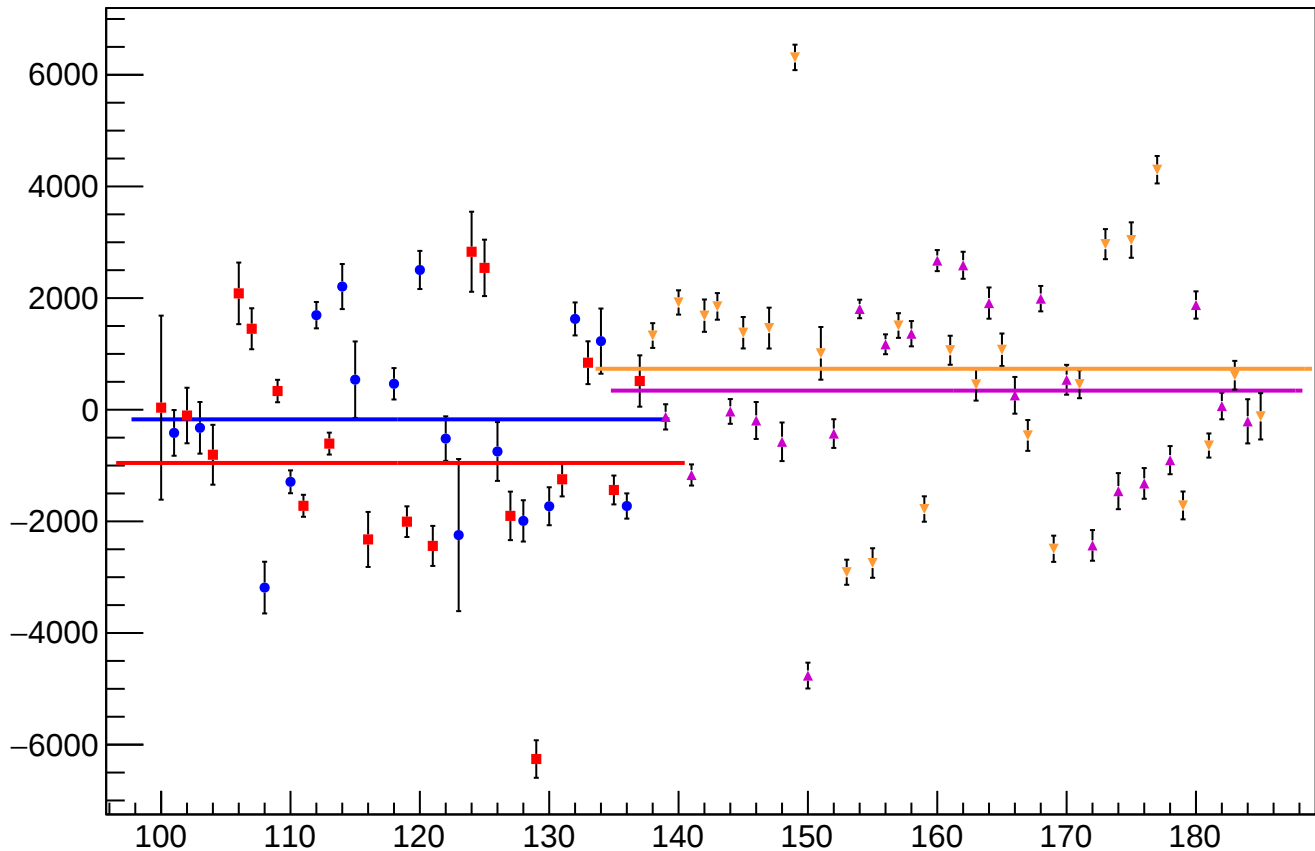
Right: 465.062 +/- 0.113 χ^2/NDF : 6617785.8/35

In: 604.899 +/- 0.110 χ^2/NDF : 10487415.9/39

Out: 704.890 +/- 0.119 χ^2/NDF : 9284991.5/43

All: 651.252 +/- 0.081 χ^2/NDF : 20153749.5/83

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -172.521 $\pm$ 82.544 χ^2 /NDF: 376.5/16

Left Out: 733.779 $\pm$ 51.800 χ^2 /NDF:1933.0/24

Right Out: -953.457 $\pm$ 75.104 χ^2 /NDF: 541.2/18

Left In: 342.465 $\pm$ 50.044 χ^2 /NDF:1254.9/22

Left: 531.379 $\pm$ 35.991 χ^2 /NDF: 3217.4/47

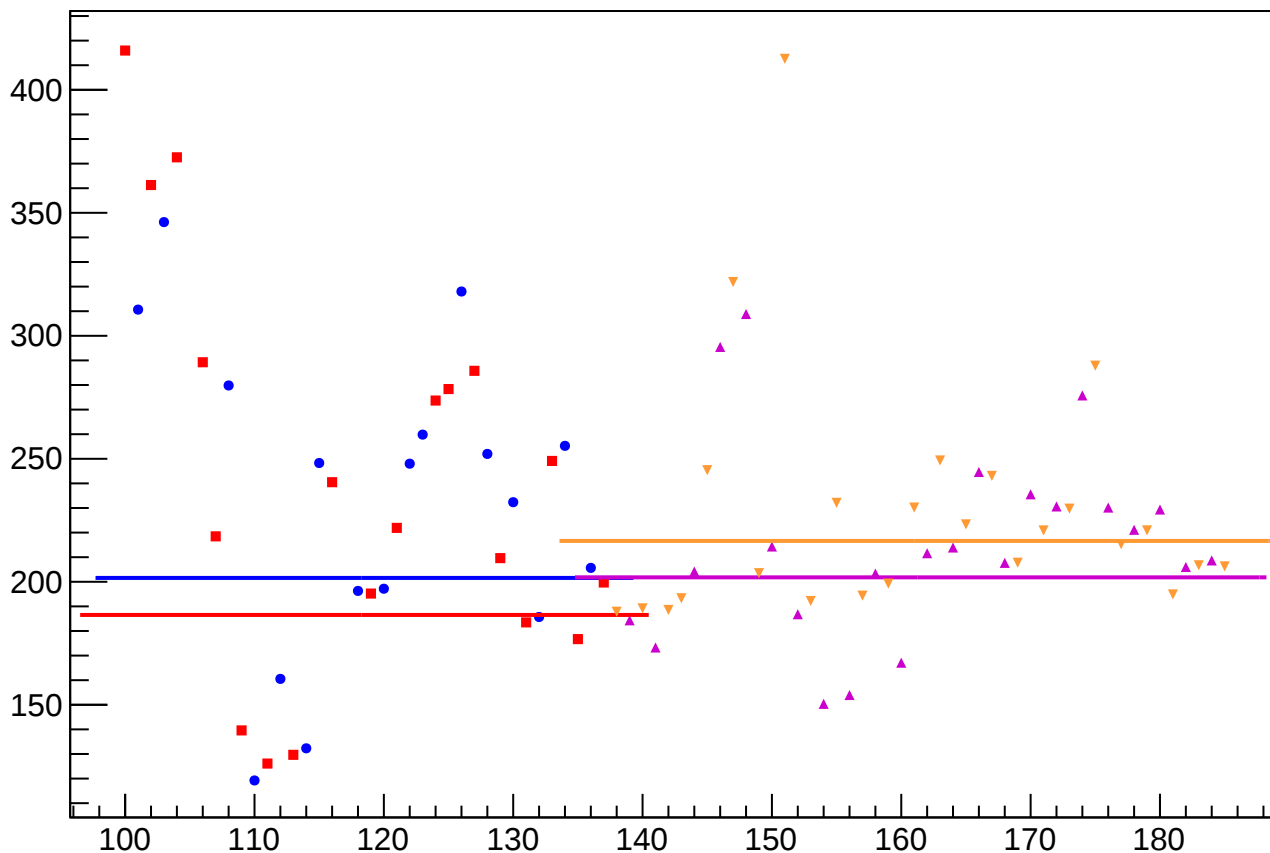
Right: -599.765 $\pm$ 55.551 χ^2 /NDF: 966.7/35

In: 204.050 $\pm$ 42.794 χ^2 /NDF:1659.9/39

Out: 189.889 $\pm$ 42.641 χ^2 /NDF:2816.2/43

All: 196.944 $\pm$ 30.206 χ^2 /NDF: 4476.1/83

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.572 $\pm$ 0.058 χ^2/NDF : 1052330.1/16

Left Out: 216.610 $\pm$ 0.037 χ^2/NDF :887230.4/24

Right Out: 186.520 $\pm$ 0.053 χ^2/NDF : 1388400.1/18

Left In: 201.805 $\pm$ 0.035 χ^2/NDF :1087243.4/22

Left: 208.953 $\pm$ 0.025 χ^2/NDF : 2058972.7/47

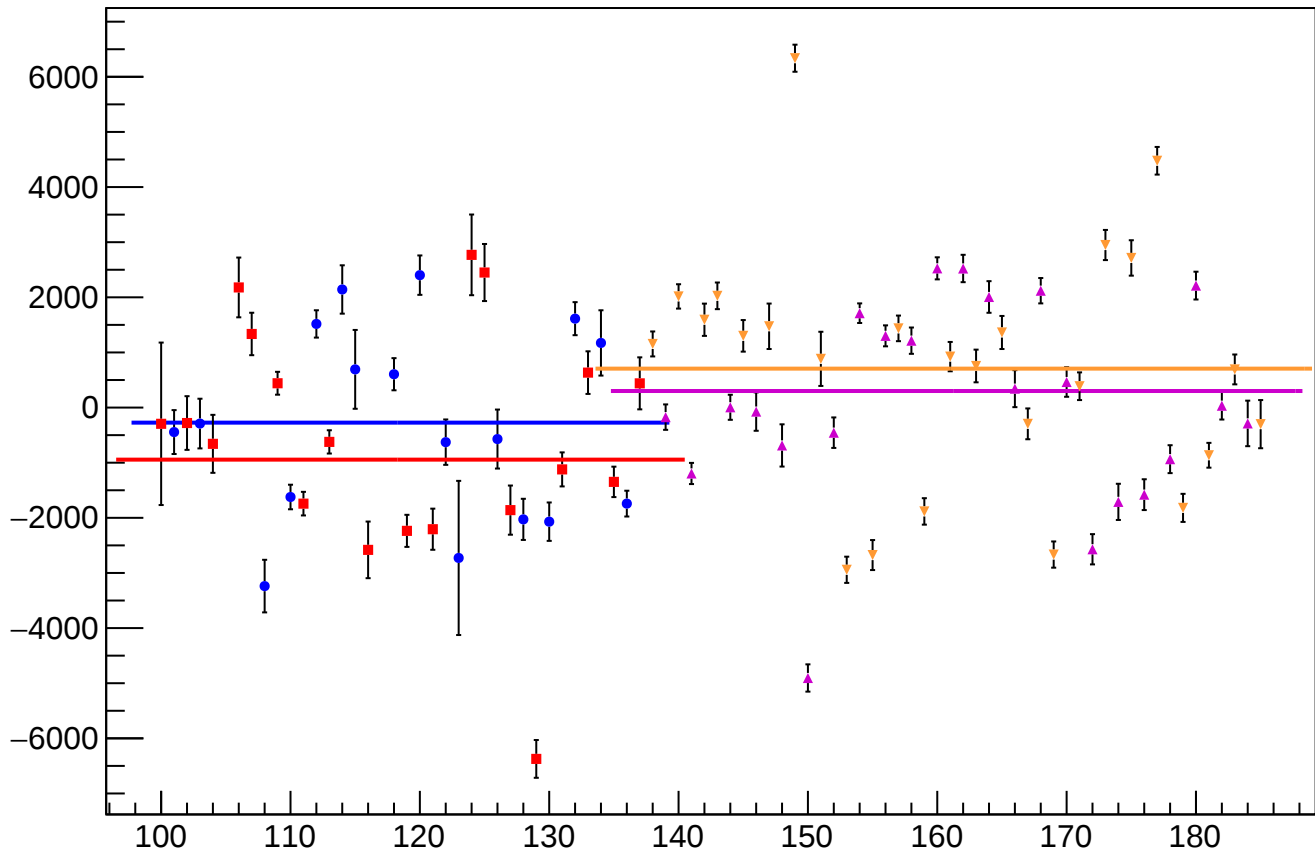
Right: 193.337 $\pm$ 0.039 χ^2/NDF : 2477113.4/35

In: 201.743 $\pm$ 0.030 χ^2/NDF :2139585.1/39

Out: 206.910 $\pm$ 0.030 χ^2/NDF :2493177.1/43

All: 204.336 $\pm$ 0.021 χ^2/NDF : 4647396.6/83

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -273.296±/85.630 χ^2/NDF : 362.8/16

Left Out: 706.418±/53.406 χ^2/NDF :1833.6/24

Right Out: -944.335±/78.399 χ^2/NDF : 524.4/18

Left In: 300.516±/51.984 χ^2/NDF :1208.6/22

Left: 497.991±/37.251 χ^2/NDF : 3071.9/47

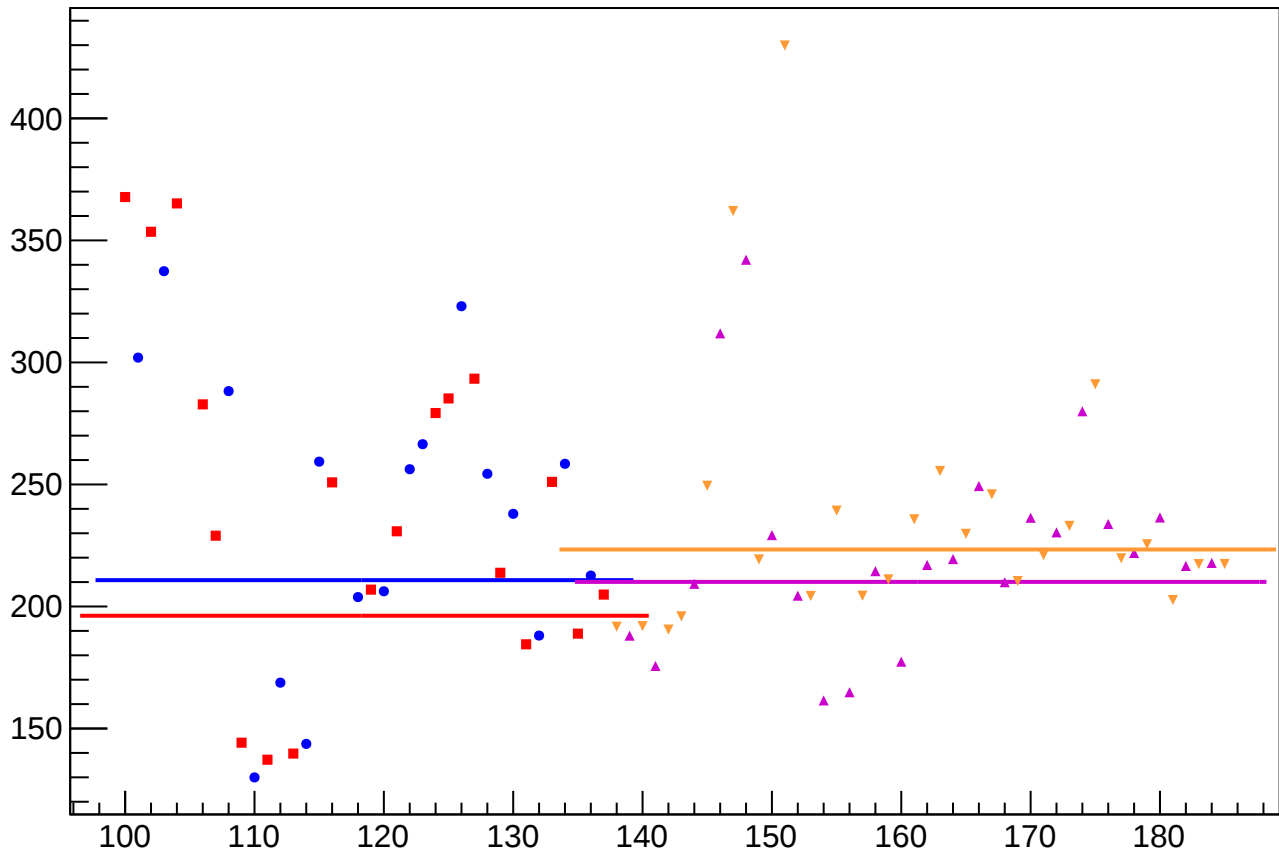
Right: -638.342±/57.824 χ^2/NDF : 920.6/35

In: 145.992±/44.436 χ^2/NDF :1604.2/39

Out: 183.191±/44.138 χ^2/NDF :2660.8/43

All: 164.717±/31.315 χ^2/NDF : 4265.4/83

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.791+/-0.061 χ^2/NDF : 873120.0/16

Left Out: 223.356+/-0.038 χ^2/NDF : 923518.5/24

Right Out: 196.216+/-0.055 χ^2/NDF : 1201600.7/18

Left In: 210.080+/-0.037 χ^2/NDF : 1015274.5/22

Left: 216.539+/-0.026 χ^2/NDF : 2002258.5/47

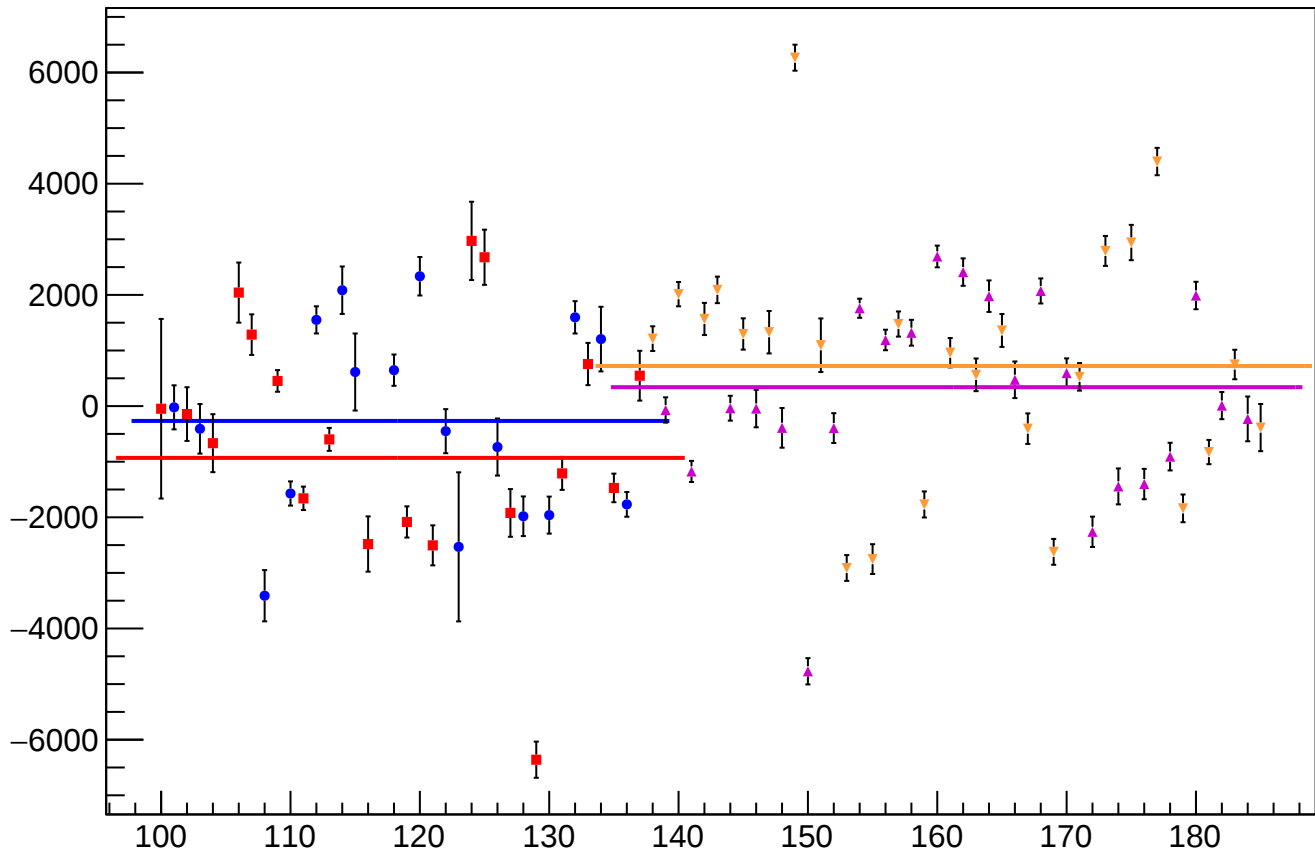
Right: 202.862+/-0.041 χ^2/NDF : 2106241.2/35

In: 210.271+/-0.031 χ^2/NDF : 1888495.3/39

Out: 214.754+/-0.031 χ^2/NDF : 2288831.2/43

All: 212.528+/-0.022 χ^2/NDF : 4187570.2/83

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -266.674+/-82.997 χ^2/NDF : 383.4/16

Left Out: 720.756+/-52.313 χ^2/NDF :1910.8/24

Right Out: -931.196+/-75.469 χ^2/NDF : 584.4/18

Left In: 340.502+/-50.802 χ^2/NDF :1201.8/22

Left: 525.059+/-36.445 χ^2/NDF : 3139.9/47

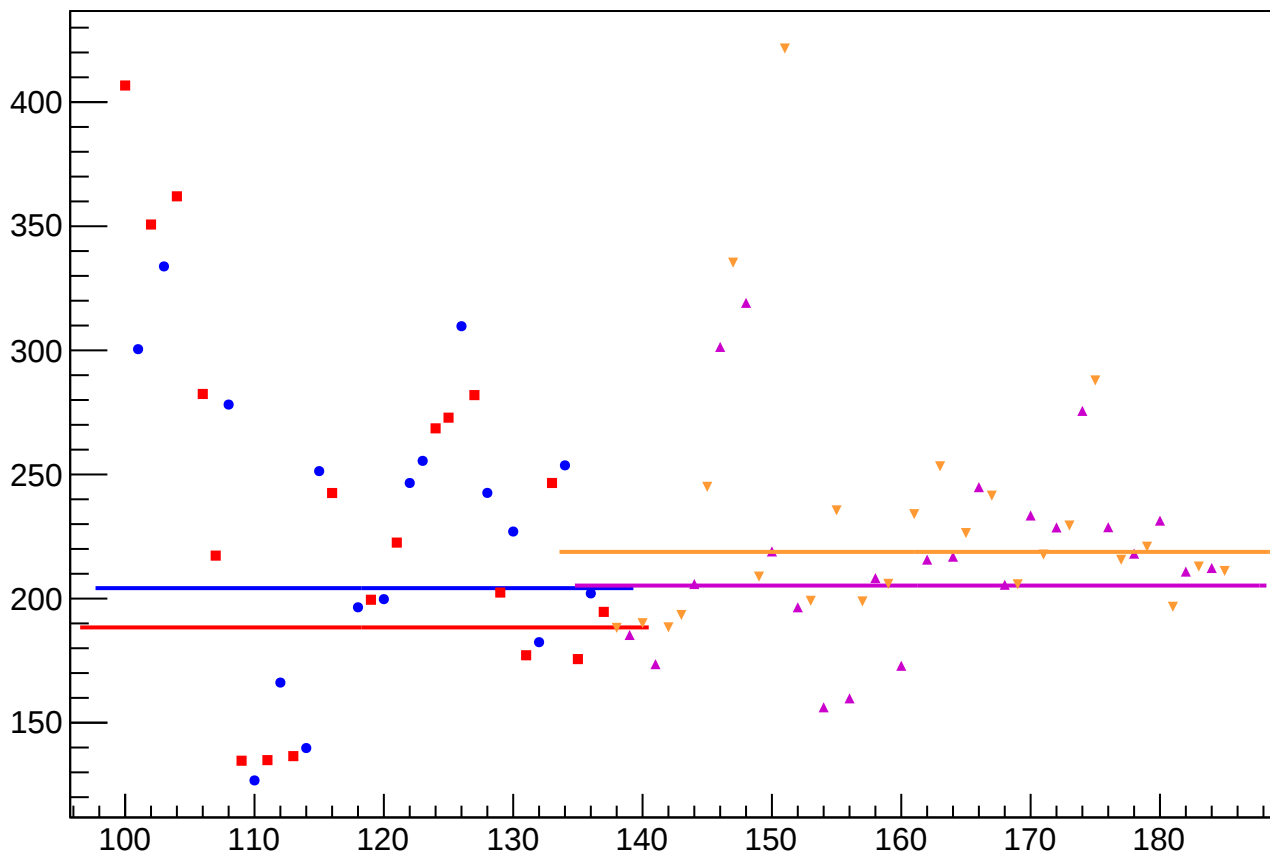
Right: -630.431+/-55.837 χ^2/NDF : 1002.9/35

In: 175.016+/-43.330 χ^2/NDF :1624.2/39

Out: 184.622+/-42.994 χ^2/NDF :2818.9/43

All: 179.856+/-30.519 χ^2/NDF : 4443.1/83

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.211 ± 0.059 χ^2/NDF : 866108.6/16

Left Out: 218.814 ± 0.037 χ^2/NDF : 897901.0/24

Right Out: 188.384 ± 0.053 χ^2/NDF : 1247760.0/18

Left In: 205.249 ± 0.036 χ^2/NDF : 997168.8/22

Left: 211.833 ± 0.026 χ^2/NDF : 1964281.3/47

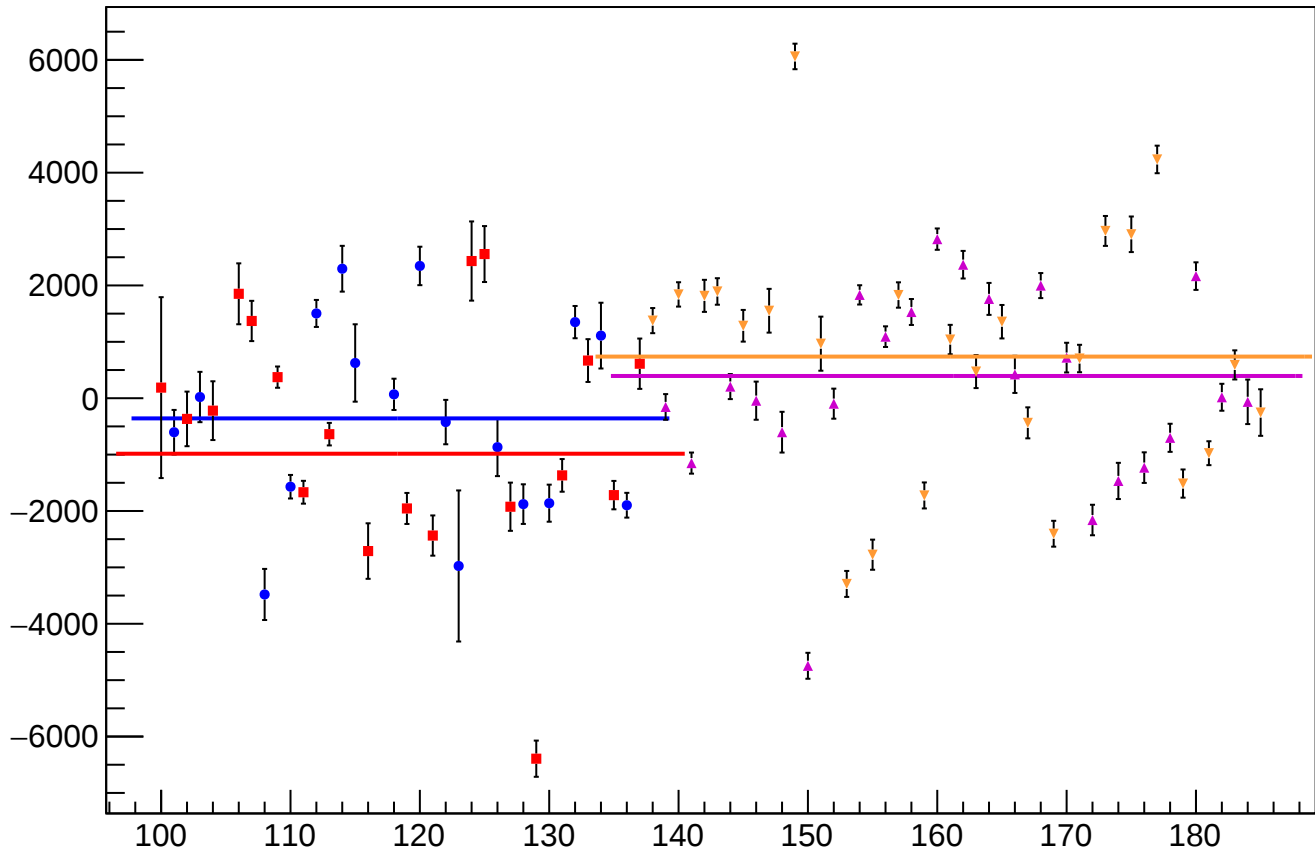
Right: 195.548 ± 0.039 χ^2/NDF : 2153679.4/35

In: 204.966 ± 0.031 χ^2/NDF : 1863504.8/39

Out: 208.938 ± 0.030 χ^2/NDF : 2365289.2/43

All: 206.968 ± 0.022 χ^2/NDF : 4237263.5/83

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -357.821 ± 81.517 $\chi^2/\text{NDF}: 388.2/16$

Left Out: 738.284 ± 51.744 $\chi^2/\text{NDF}: 1937.8/24$

Right Out: -984.342 ± 73.851 $\chi^2/\text{NDF}: 588.2/18$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 561.503 ± 36.071 $\chi^2/\text{NDF}: 3196.9/47$

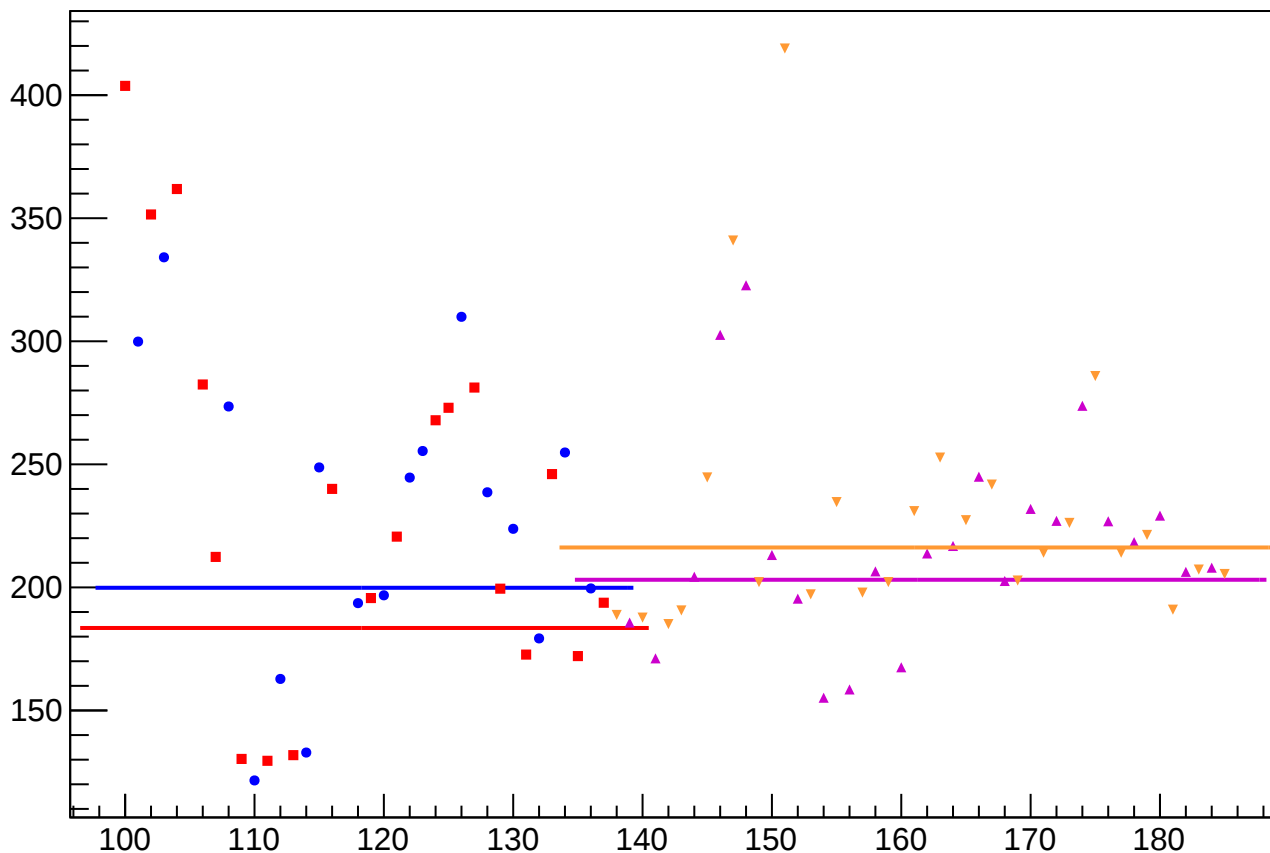
Right: -701.918 ± 54.731 $\chi^2/\text{NDF}: 1008.9/35$

In: 186.888 ± 42.813 $\chi^2/\text{NDF}: 1686.3/39$

Out: 171.068 ± 42.378 $\chi^2/\text{NDF}: 2890.9/43$

All: 178.897 ± 30.118 $\chi^2/\text{NDF}: 4577.3/83$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.847+/-0.058 χ^2/NDF : 940786.8/16

Left Out: 216.222+/-0.037 χ^2/NDF : 947115.2/24

Right Out: 183.513+/-0.052 χ^2/NDF : 1345883.7/18

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.477+/-0.026 χ^2/NDF : 2051233.4/47

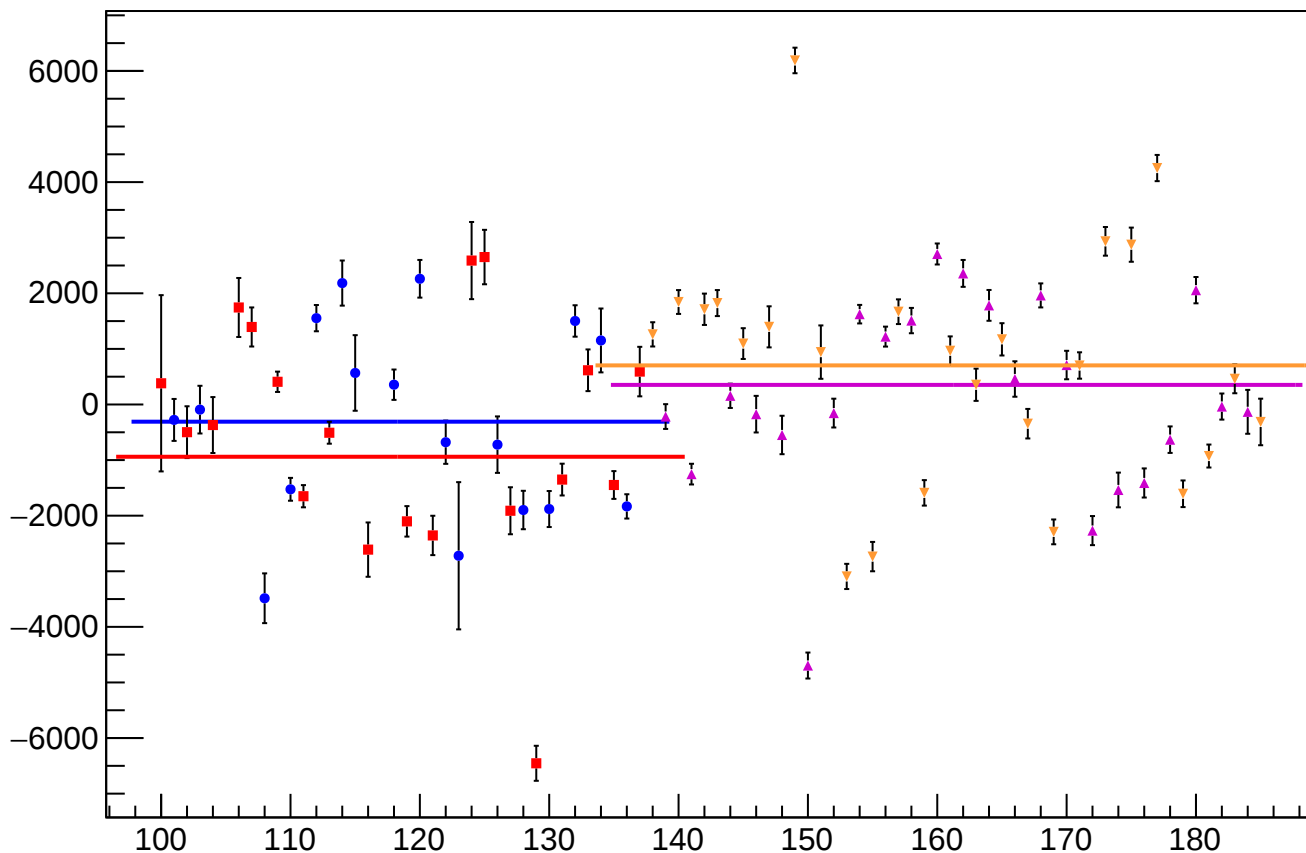
Right: 190.876+/-0.039 χ^2/NDF : 2330772.3/35

In: 202.203+/-0.030 χ^2/NDF : 1981107.2/39

Out: 205.452+/-0.030 χ^2/NDF : 2556137.8/43

All: 203.844+/-0.021 χ^2/NDF : 4543060.9/83

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Left: 522.339 ± 35.418 χ^2/NDF : 3186.4/47

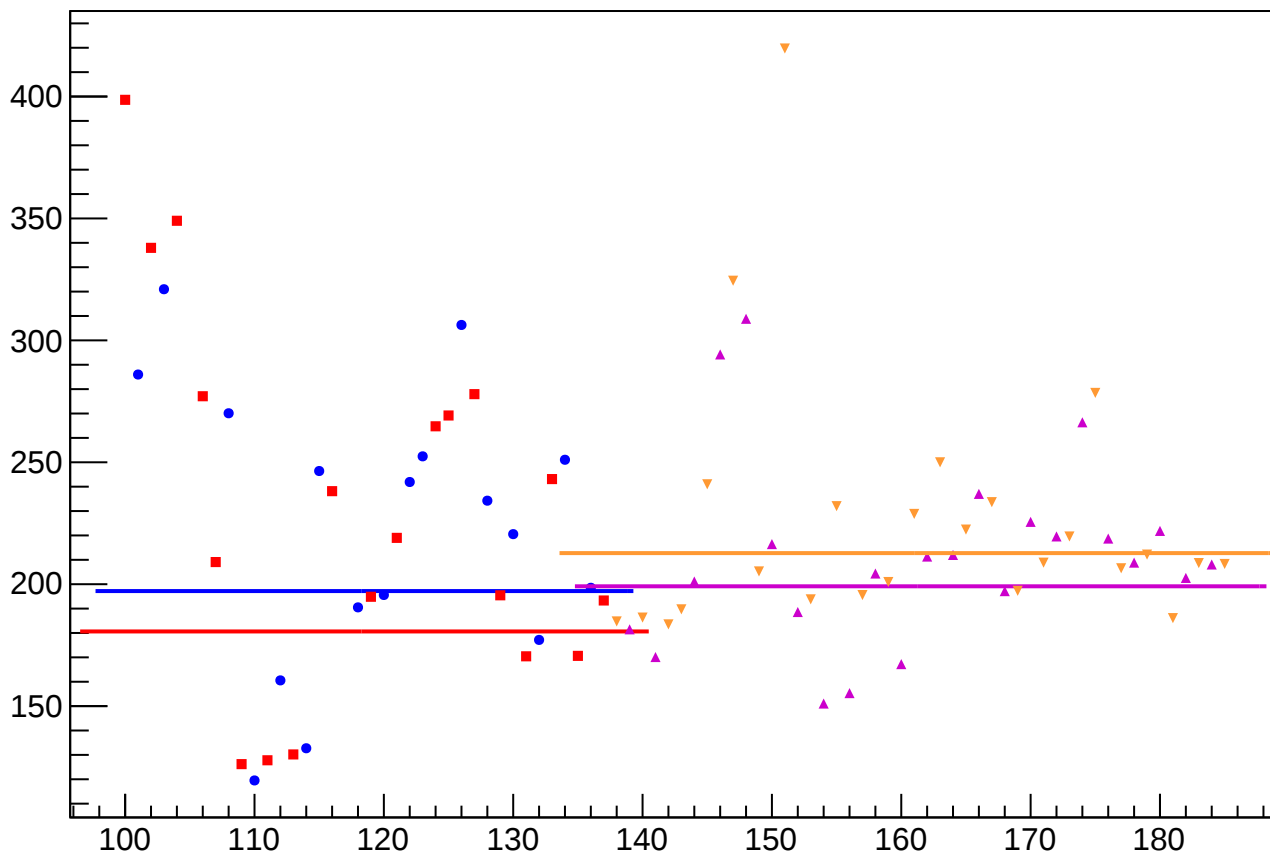
Right: -656.175 ± 53.917 χ^2/NDF : 1047.2/35

In: 171.353 ± 42.032 χ^2/NDF : 1678.8/39

Out: 162.899 ± 41.698 χ^2/NDF : 2888.5/43

All: 167.093 ± 29.602 χ^2/NDF : 4567.3/83

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.185+/-0.057 χ^2/NDF : 909929.0/16

Left Out: 212.753+/-0.036 χ^2/NDF : 917275.3/24

Right Out: 180.624+/-0.051 χ^2/NDF : 1341837.4/18

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.733+/-0.025 χ^2/NDF : 1976980.6/47

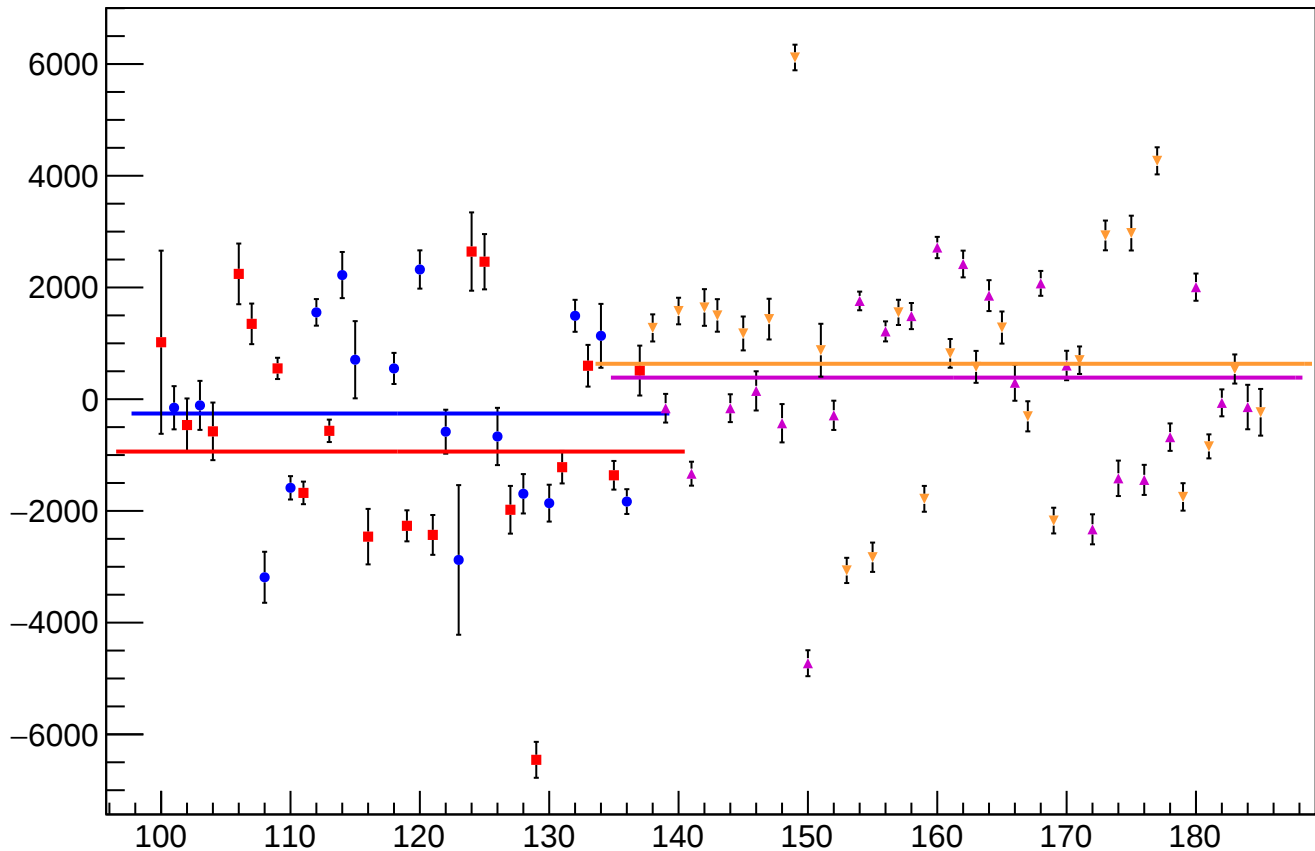
Right: 188.080+/-0.038 χ^2/NDF : 2298467.9/35

In: 198.607+/-0.030 χ^2/NDF : 1896723.1/39

Out: 202.188+/-0.029 χ^2/NDF : 2521168.5/43

All: 200.412+/-0.021 χ^2/NDF : 4425210.7/83

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -256.429 ± 81.594 χ^2/NDF : 381.8/16

Left Out: 633.917 ± 52.811 χ^2/NDF : 1856.3/24

Right Out: -937.482 ± 74.168 χ^2/NDF : 609.1/18

Left In: 386.248 ± 50.994 χ^2/NDF : 1238.0/22

Left: 505.747 ± 36.684 χ^2/NDF : 3105.7/47

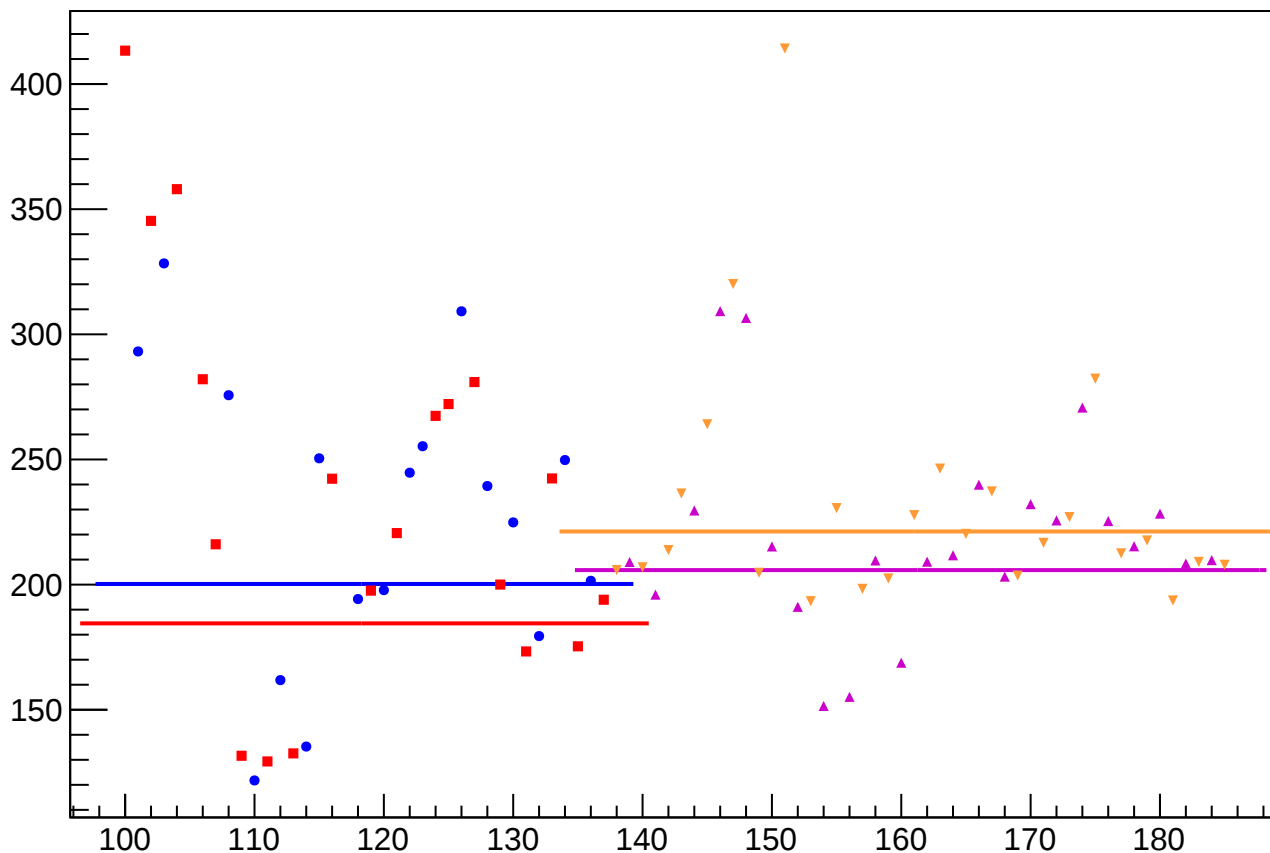
Right: -629.348 ± 54.883 χ^2/NDF : 1029.0/35

In: 205.733 ± 43.243 χ^2/NDF : 1664.5/39

Out: 105.247 ± 43.020 χ^2/NDF : 2763.2/43

All: 155.230 ± 30.498 χ^2/NDF : 4430.4/83

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.256 $\pm$ 0.058 χ^2 /NDF: 915910.1/16

Left Out: 221.230 $\pm$ 0.037 χ^2 /NDF: 774160.5/24

Right Out: 184.510 $\pm$ 0.052 χ^2 /NDF: 1314720.9/18

Left In: 205.803 $\pm$ 0.036 χ^2 /NDF: 994903.5/22

Left: 213.247 $\pm$ 0.026 χ^2 /NDF: 1857377.3/47

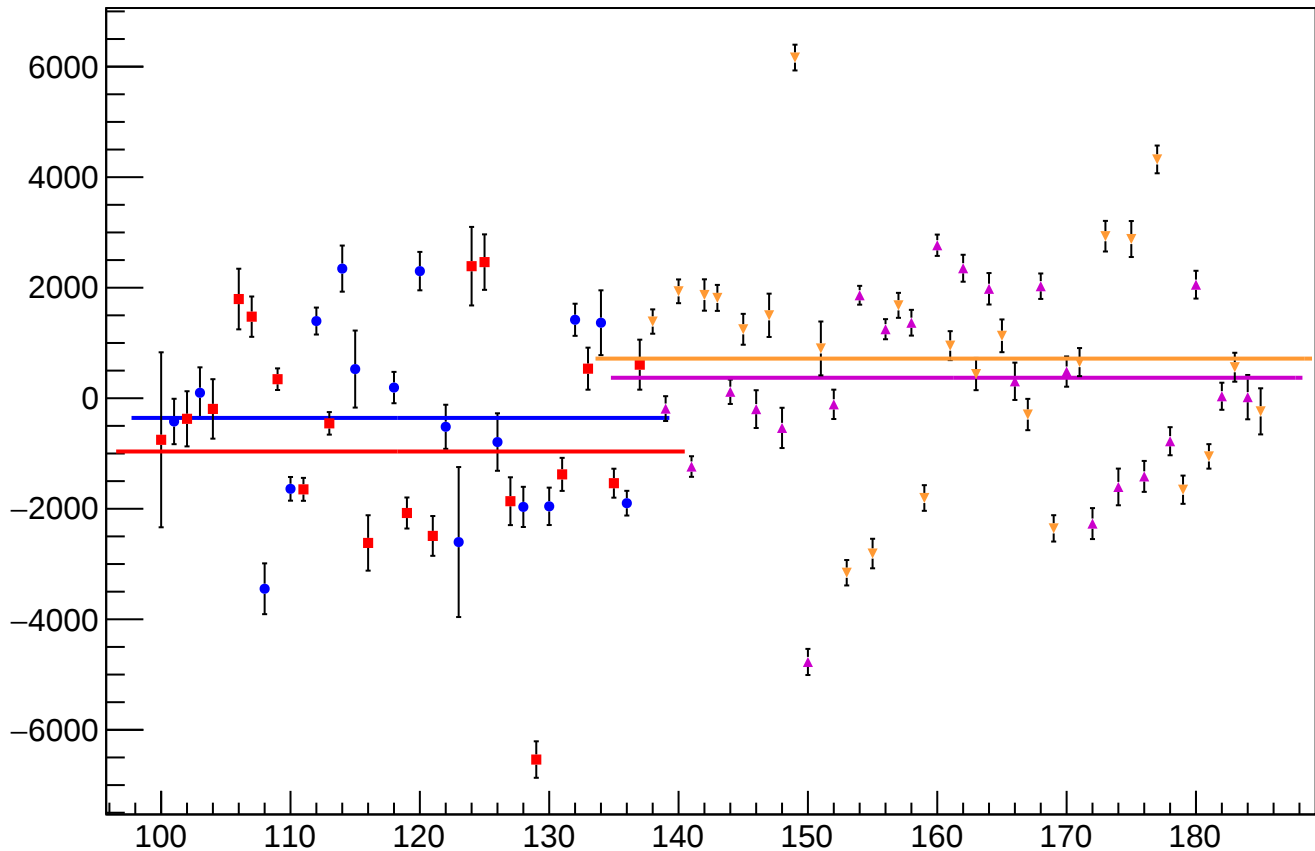
Right: 191.634 $\pm$ 0.039 χ^2 /NDF: 2271416.2/35

In: 204.245 $\pm$ 0.031 χ^2 /NDF: 1917462.0/39

Out: 208.876 $\pm$ 0.030 χ^2 /NDF: 2414184.6/43

All: 206.573 $\pm$ 0.022 χ^2 /NDF: 4343173.6/83

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -356.124 ± 83.321 χ^2/NDF : 378.6/16

Left Out: 717.300 ± 52.467 χ^2/NDF : 1879.1/24

Right Out: -963.743 ± 75.713 χ^2/NDF : 572.4/18

Left In: 370.408 ± 50.884 χ^2/NDF : 1223.2/22

Left: 538.544 ± 36.527 χ^2/NDF : 3124.8/47

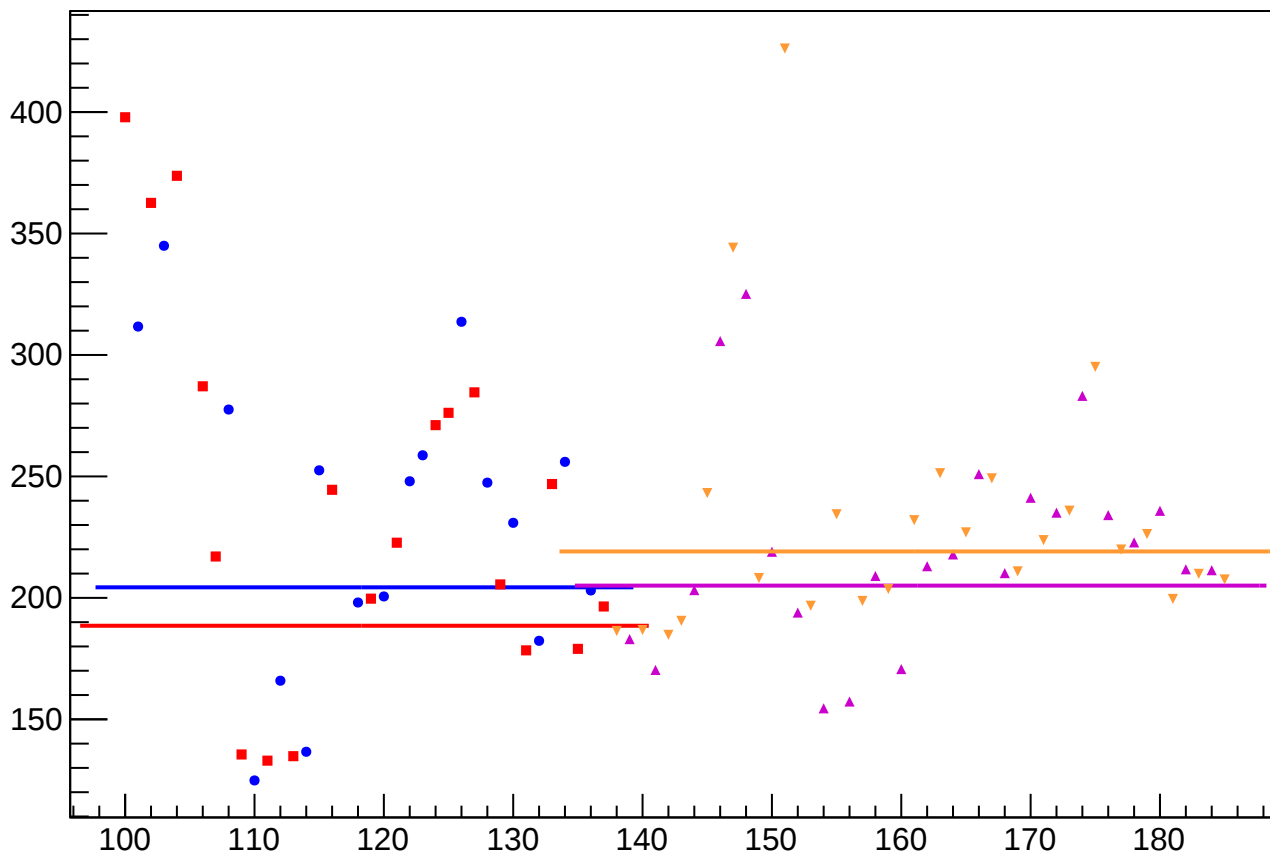
Right: -688.935 ± 56.034 χ^2/NDF : 980.1/35

In: 173.049 ± 43.427 χ^2/NDF : 1657.1/39

Out: 171.939 ± 43.124 χ^2/NDF : 2784.5/43

All: 172.490 ± 30.600 χ^2/NDF : 4441.6/83

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.343 $\pm$ 0.059 χ^2/NDF : 944923.9/16

Left Out: 219.114 $\pm$ 0.037 χ^2/NDF : 976320.3/24

Right Out: 188.523 $\pm$ 0.054 χ^2/NDF : 1311109.8/18

Left In: 205.046 $\pm$ 0.036 χ^2/NDF : 1144197.1/22

Left: 211.865 $\pm$ 0.026 χ^2/NDF : 2194605.8/47

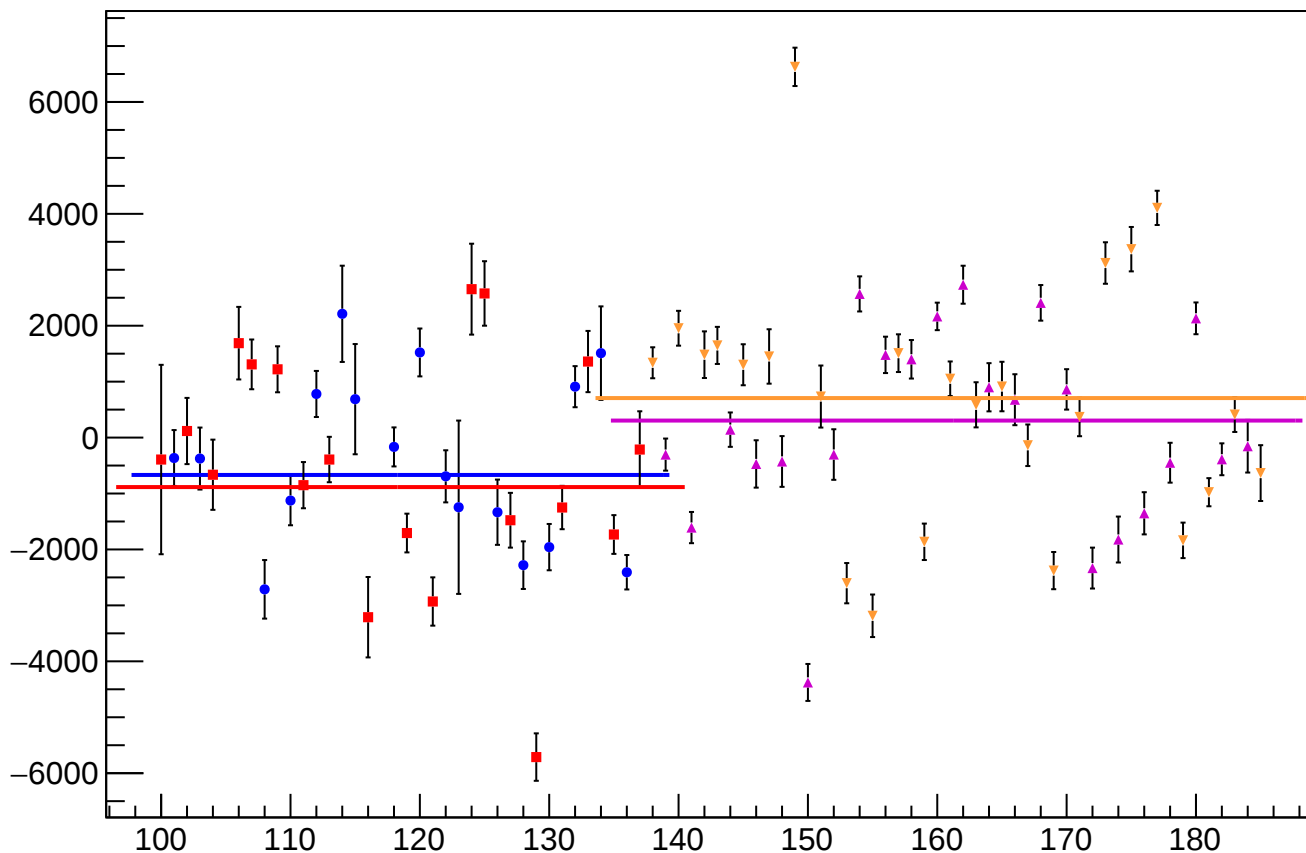
Right: 195.678 $\pm$ 0.040 χ^2/NDF : 2295521.2/35

In: 204.855 $\pm$ 0.031 χ^2/NDF : 2089224.9/39

Out: 209.190 $\pm$ 0.030 χ^2/NDF : 2507995.4/43

All: 207.038 $\pm$ 0.022 χ^2/NDF : 4607251.9/83

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -668.118 $\pm$ 114.189 χ^2/NDF : 153.3/16

Left Out: 706.315 $\pm$ 69.791 χ^2/NDF :1014.8/24

Right Out: -884.858 $\pm$ 110.843 χ^2/NDF : 320.1/18

Left In: 304.161 $\pm$ 70.958 χ^2/NDF :643.5/22

Left: 508.572 $\pm$ 49.757 χ^2/NDF : 1674.6/47

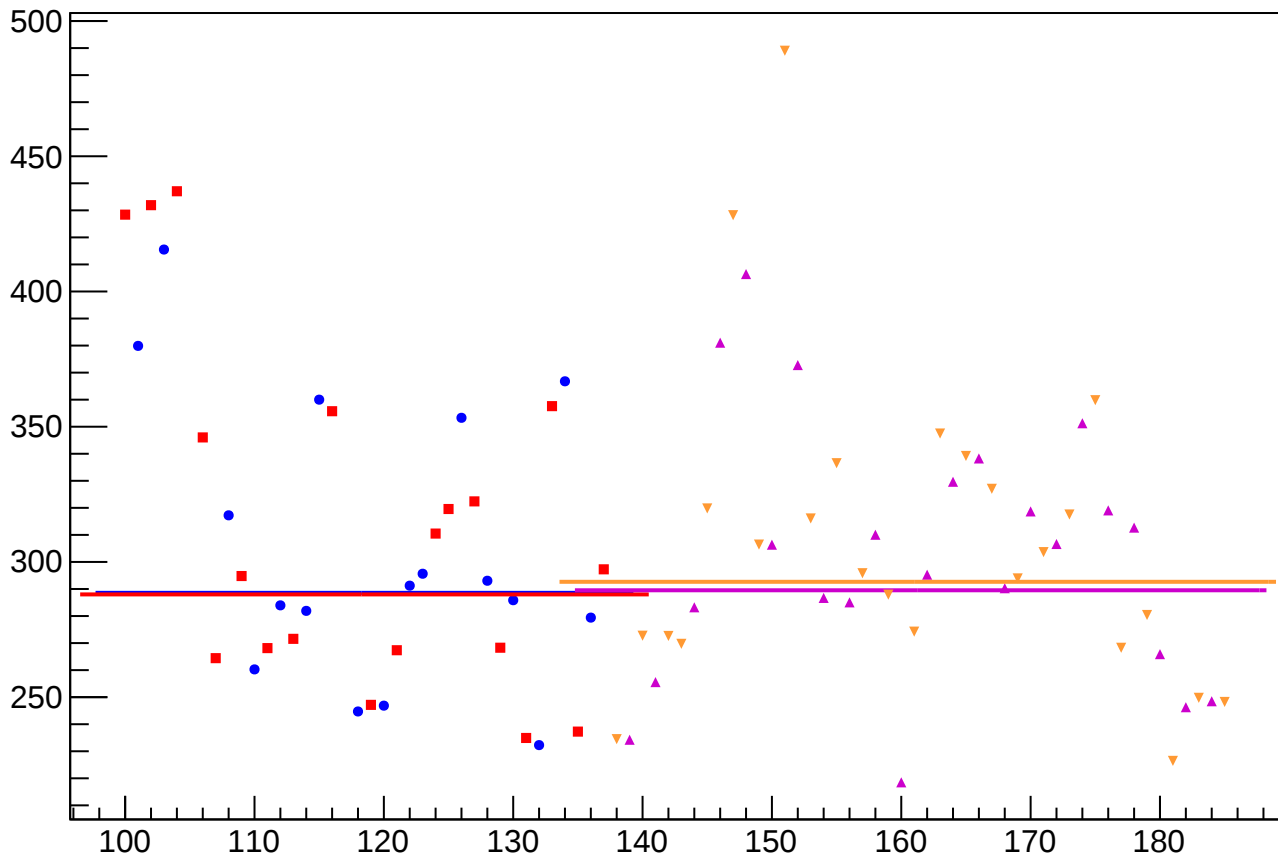
Right: -779.711 $\pm$ 79.534 χ^2/NDF : 475.3/35

In: 33.310 $\pm$ 60.269 χ^2/NDF :849.2/39

Out: 254.588 $\pm$ 59.059 χ^2/NDF :1482.5/43

All: 146.193 $\pm$ 42.182 χ^2/NDF : 2338.5/83

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.577 $\pm$ 0.081 χ^2 /NDF: 338793.1/16

Left Out: 292.658 $\pm$ 0.049 χ^2 /NDF: 926465.5/24

Right Out: 287.995 $\pm$ 0.078 χ^2 /NDF: 459962.0/18

Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

Left: 291.116 $\pm$ 0.035 χ^2 /NDF: 1706352.5/47

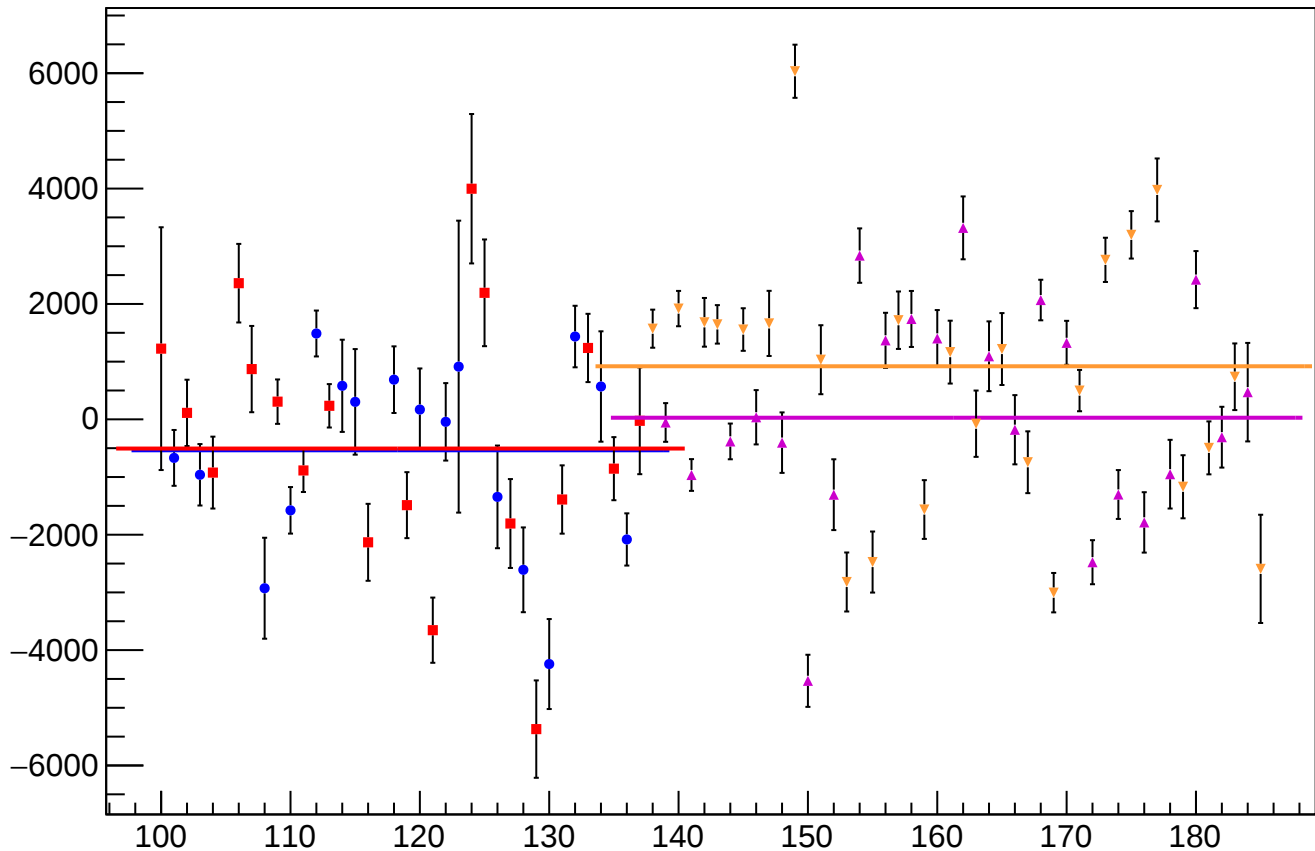
Right: 288.277 $\pm$ 0.056 χ^2 /NDF: 798781.9/35

In: 289.258 $\pm$ 0.043 χ^2 /NDF: 1116792.9/39

Out: 291.334 $\pm$ 0.042 χ^2 /NDF: 1388962.3/43

All: 290.317 $\pm$ 0.030 χ^2 /NDF: 2506965.4/83

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -536.568+/-147.571 χ^2/NDF : 107.9/16

Left Out: 919.824+/-89.505 χ^2/NDF : 541.3/24

Right Out: -506.373+/-135.761 χ^2/NDF : 140.9/18

Left In: 27.763+/-92.331 χ^2/NDF : 362.5/22

Left: 487.654+/-64.266 χ^2/NDF : 952.0/47

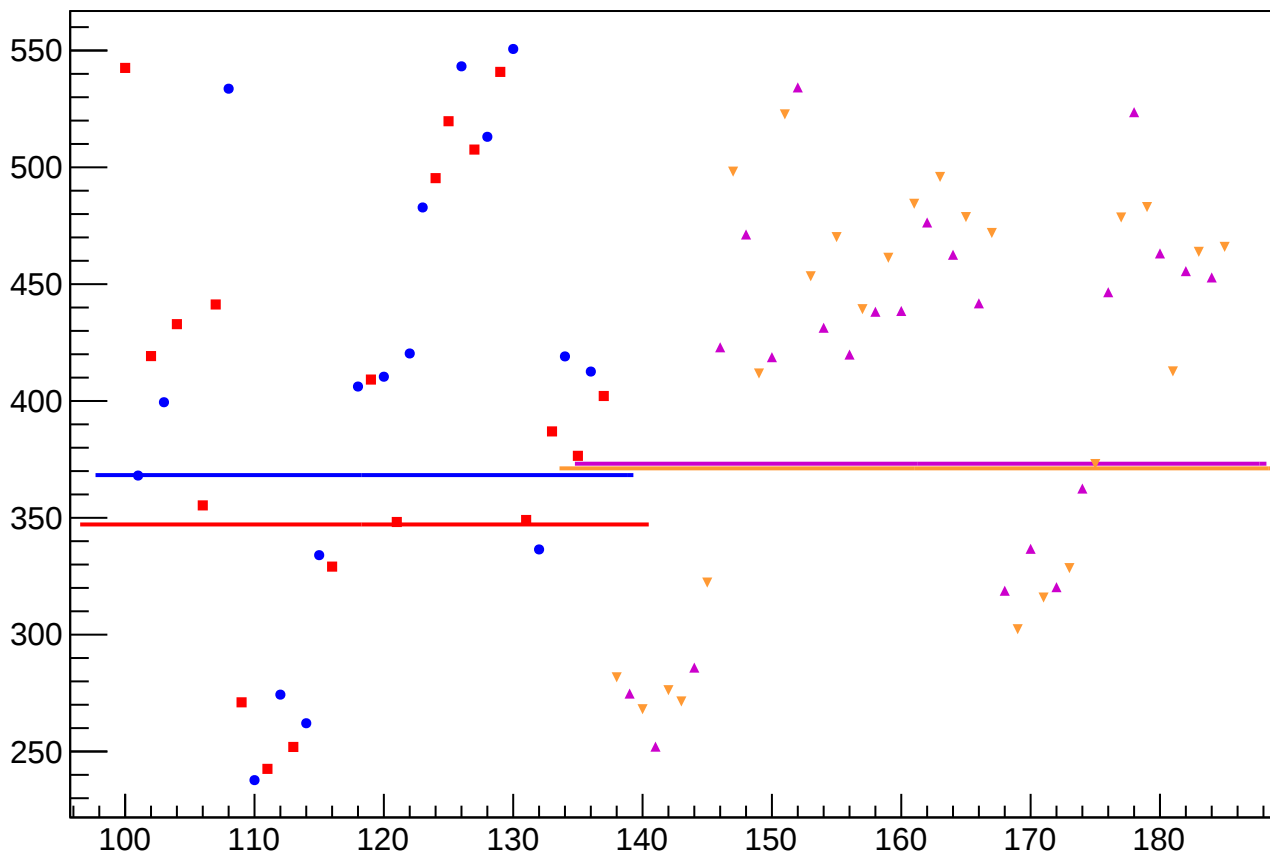
Right: -520.214+/-99.912 χ^2/NDF : 248.8/35

In: -131.003+/-78.273 χ^2/NDF : 480.9/39

Out: 487.730+/-74.726 χ^2/NDF : 759.2/43

All: 192.699+/-54.050 χ^2/NDF : 1272.8/83

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.287 $\pm$ 0.104 χ^2 /NDF: 765418.4/16

Left Out: 371.167 $\pm$ 0.063 χ^2 /NDF:1869086.1/24

Right Out: 347.159 $\pm$ 0.096 χ^2 /NDF: 816304.3/18

Left In: 373.161 $\pm$ 0.065 χ^2 /NDF:1636244.2/22

Left: 372.133 $\pm$ 0.045 χ^2 /NDF: 3505811.1/47

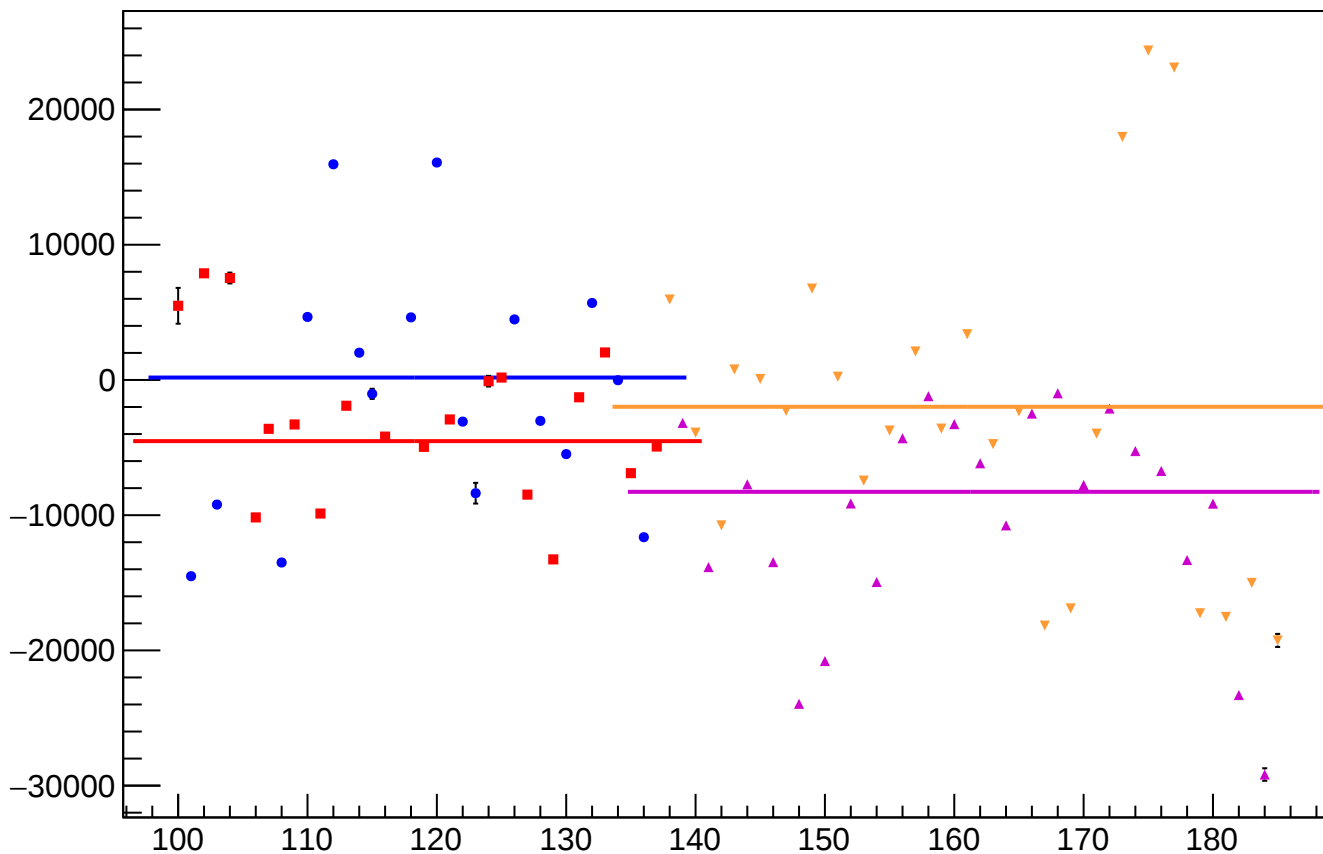
Right: 356.844 $\pm$ 0.071 χ^2 /NDF: 1603928.6/35

In: 371.790 $\pm$ 0.055 χ^2 /NDF:2403230.1/39

Out: 363.893 $\pm$ 0.053 χ^2 /NDF:2728988.4/43

All: 367.659 $\pm$ 0.038 χ^2 /NDF: 5142867.4/83

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788+/-54.896 χ^2/NDF : 30662.2/16

Left Out: -1984.621+/-42.506 χ^2/NDF : 63793.3/24

Right Out: -4523.222+/-52.440 χ^2/NDF : 7474.2/18

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4998.924+/-30.671 χ^2/NDF : 97155.1/47

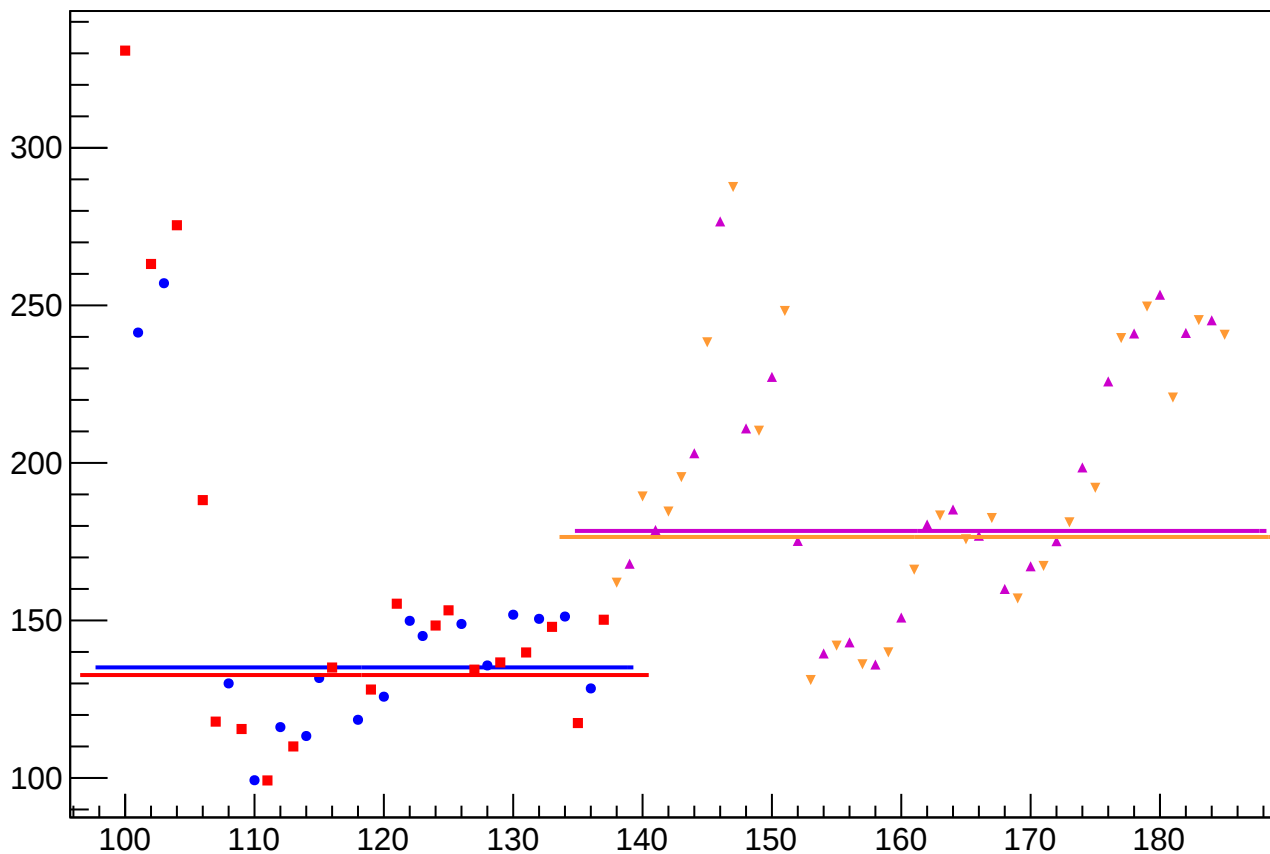
Right: -2279.776+/-37.919 χ^2/NDF : 41972.4/35

In: -4939.792+/-34.475 χ^2/NDF : 67888.0/39

Out: -2991.191+/-33.021 χ^2/NDF : 72681.7/43

All: -3923.512+/-23.847 χ^2/NDF : 142235.9/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099 $\pm$ 0.039 χ^2 /NDF: 657657.4/16

Left Out: 176.492 $\pm$ 0.030 χ^2 /NDF:1545933.2/24

Right Out: 132.672 $\pm$ 0.037 χ^2 /NDF: 828363.1/18

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.413 $\pm$ 0.022 χ^2 /NDF: 2841628.7/47

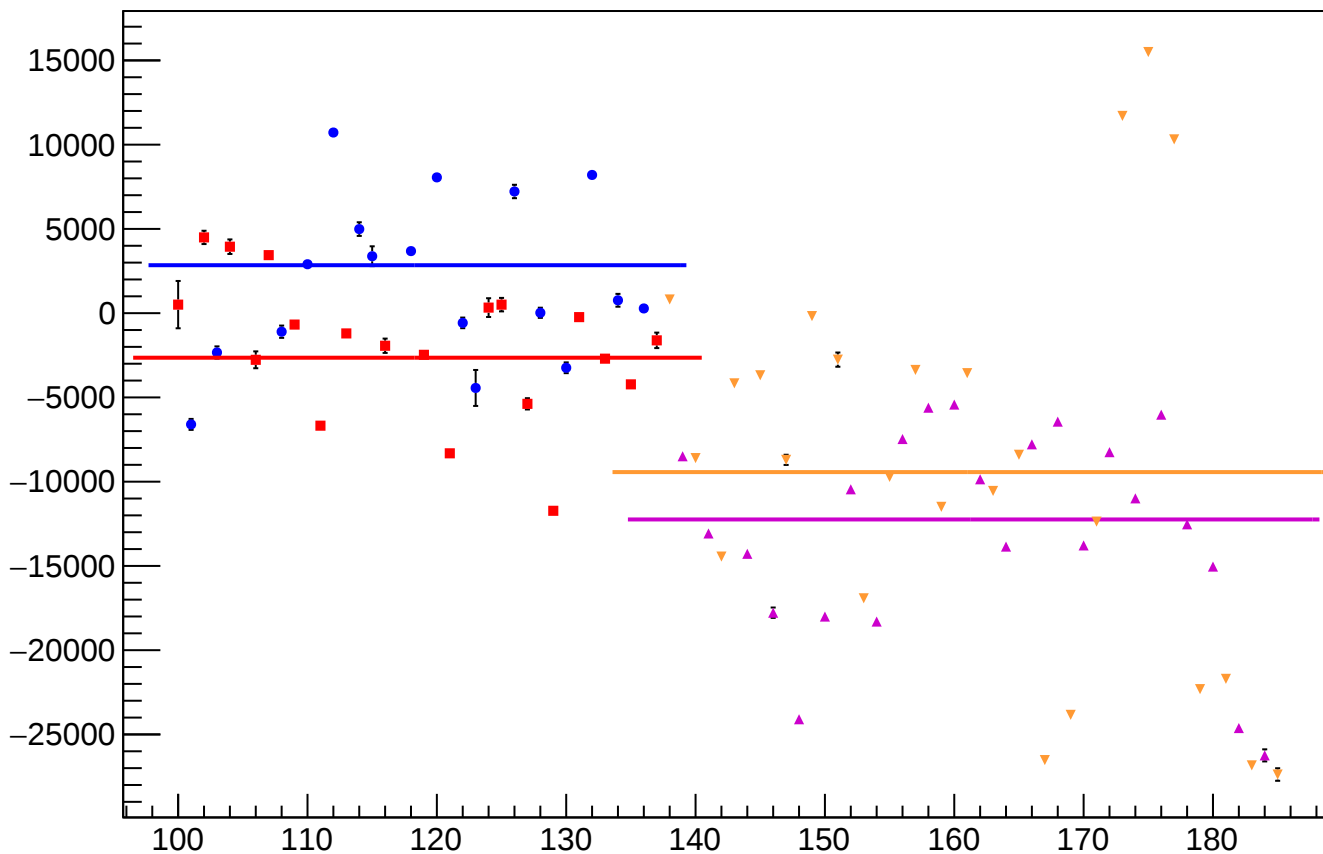
Right: 133.830 $\pm$ 0.027 χ^2 /NDF: 1488063.7/35

In: 161.330 $\pm$ 0.024 χ^2 /NDF:2705447.5/39

Out: 159.117 $\pm$ 0.023 χ^2 /NDF:3217084.3/43

All: 160.176 $\pm$ 0.017 χ^2 /NDF: 5926830.7/83

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117+/-70.894 χ^2/NDF : 4160.1/16

Left Out: -9431.211+/-45.640 χ^2/NDF : 62223.5/24

Right Out: -2643.505+/-65.711 χ^2/NDF : 3177.7/18

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.906+/-31.656 χ^2/NDF : 80807.8/47

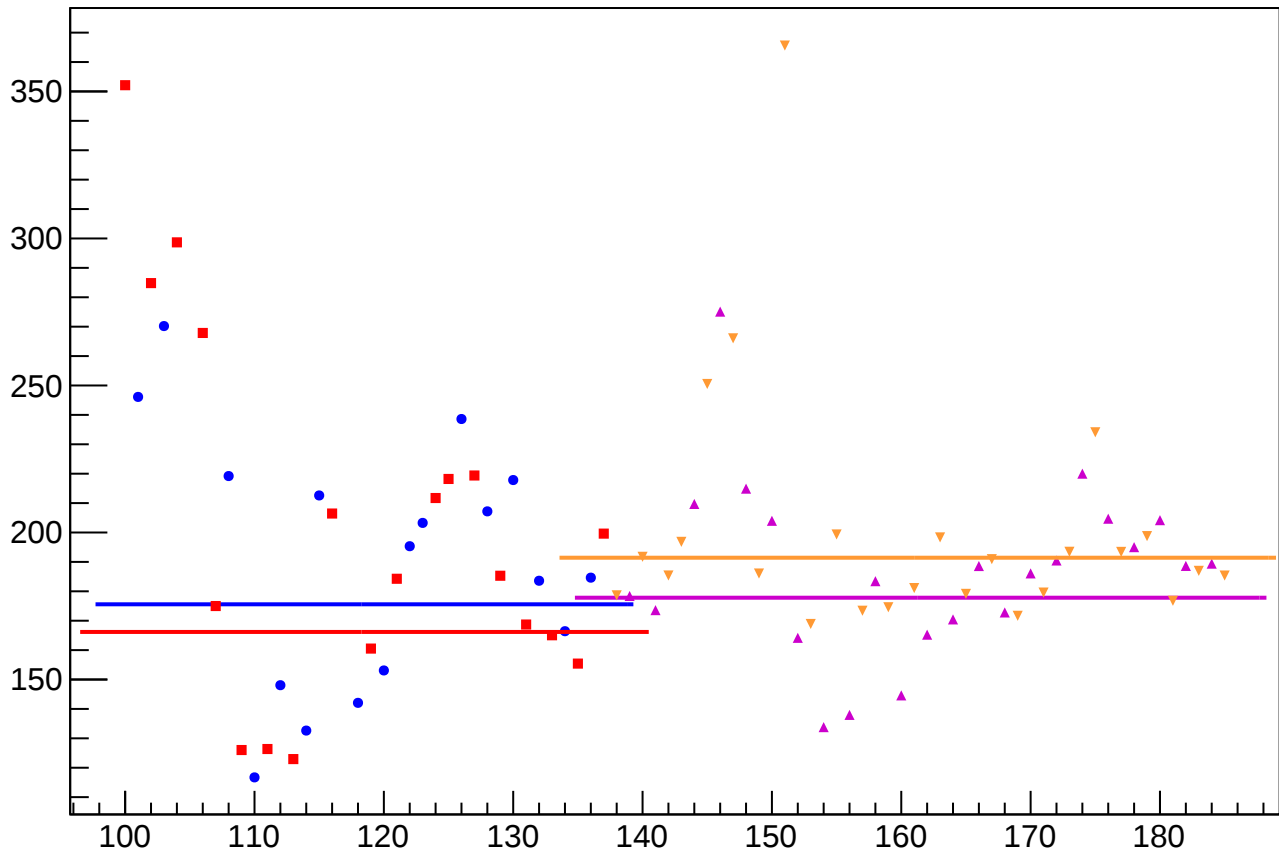
Right: -106.685+/-48.193 χ^2/NDF : 10563.0/35

In: -8054.077+/-37.351 χ^2/NDF : 53499.1/39

Out: -7222.334+/-37.485 χ^2/NDF : 72599.1/43

All: -7639.701+/-26.458 χ^2/NDF : 126345.2/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582 $\pm$ 0.050 χ^2 /NDF: 687852.4/16

Left Out: 191.425 $\pm$ 0.032 χ^2 /NDF: 726315.0/24

Right Out: 166.180 $\pm$ 0.046 χ^2 /NDF: 925559.0/18

Left In: 177.821 $\pm$ 0.031 χ^2 /NDF: 862494.4/22

Left: 184.366 $\pm$ 0.022 χ^2 /NDF: 1681006.9/47

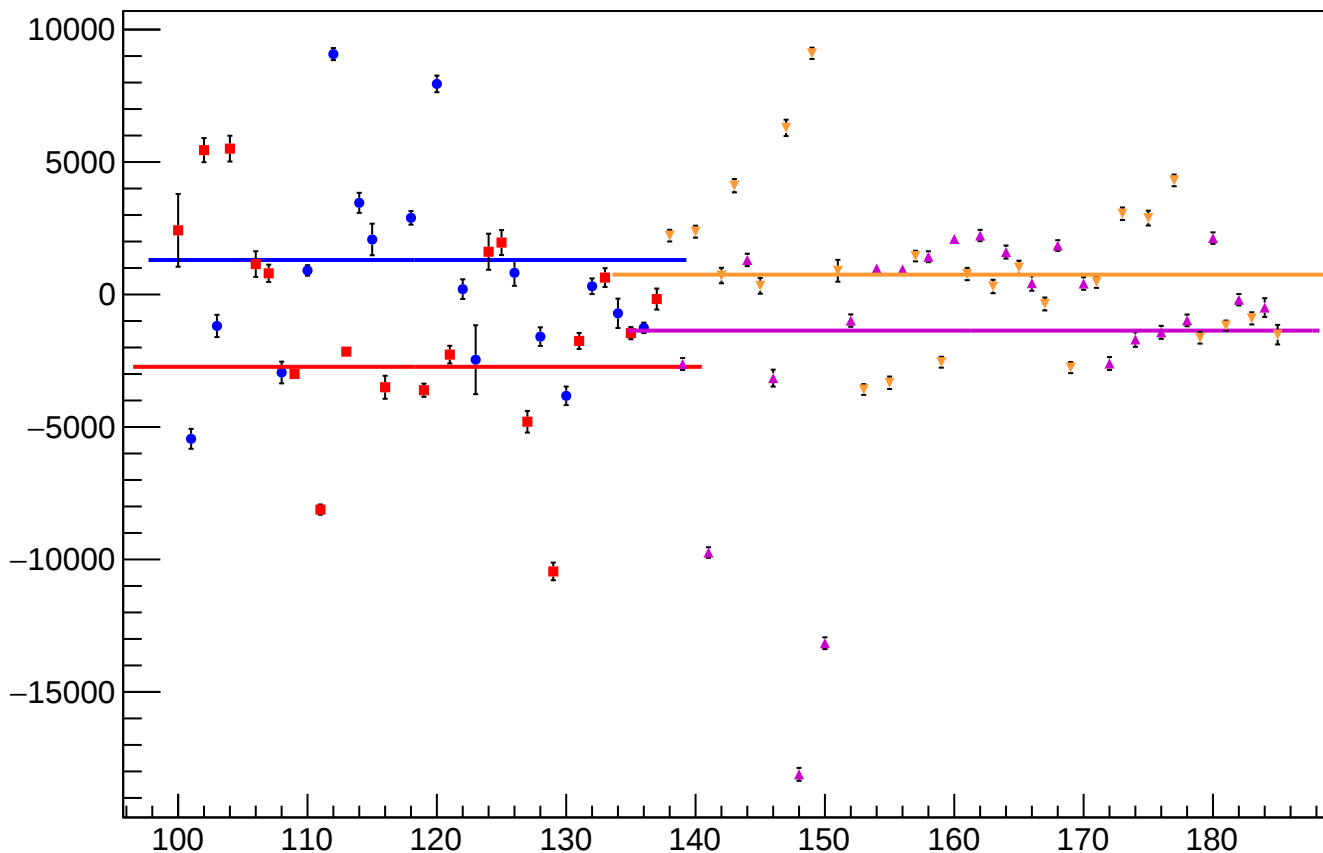
Right: 170.525 $\pm$ 0.034 χ^2 /NDF: 1632331.4/35

In: 177.200 $\pm$ 0.026 χ^2 /NDF: 1551788.7/39

Out: 183.210 $\pm$ 0.027 χ^2 /NDF: 1850997.2/43

All: 180.194 $\pm$ 0.019 χ^2 /NDF: 3428581.0/83

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 ± 77.323 $\chi^2/\text{NDF}: 2649.9/16$

Left Out: 749.740 ± 47.570 $\chi^2/\text{NDF}: 4184.4/24$

Right Out: -2729.355 ± 70.012 $\chi^2/\text{NDF}: 2497.2/18$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -346.531 ± 32.996 $\chi^2/\text{NDF}: 16840.8/47$

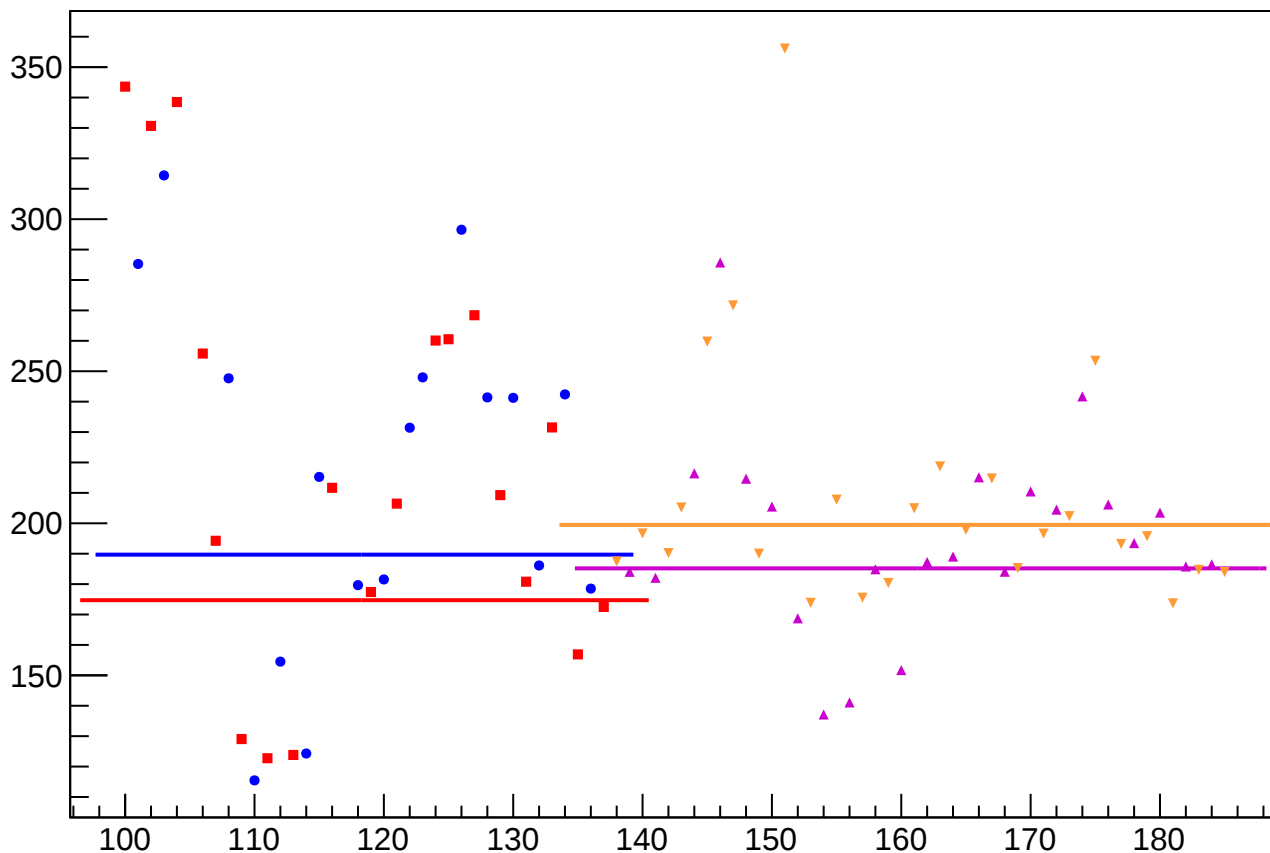
Right: -912.817 ± 51.899 $\chi^2/\text{NDF}: 6641.4/35$

In: -670.480 ± 39.410 $\chi^2/\text{NDF}: 15162.7/39$

Out: -349.120 ± 39.347 $\chi^2/\text{NDF}: 8371.0/43$

All: -509.540 ± 27.845 $\chi^2/\text{NDF}: 23567.0/83$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2/NDF : 977199.2/16

Left Out: 199.468 $\pm$ 0.034 χ^2/NDF : 728313.9/24

Right Out: 174.707 $\pm$ 0.050 χ^2/NDF : 1291115.5/18

Left In: 185.171 $\pm$ 0.032 χ^2/NDF : 882752.2/22

Left: 192.050 $\pm$ 0.023 χ^2/NDF : 1704816.2/47

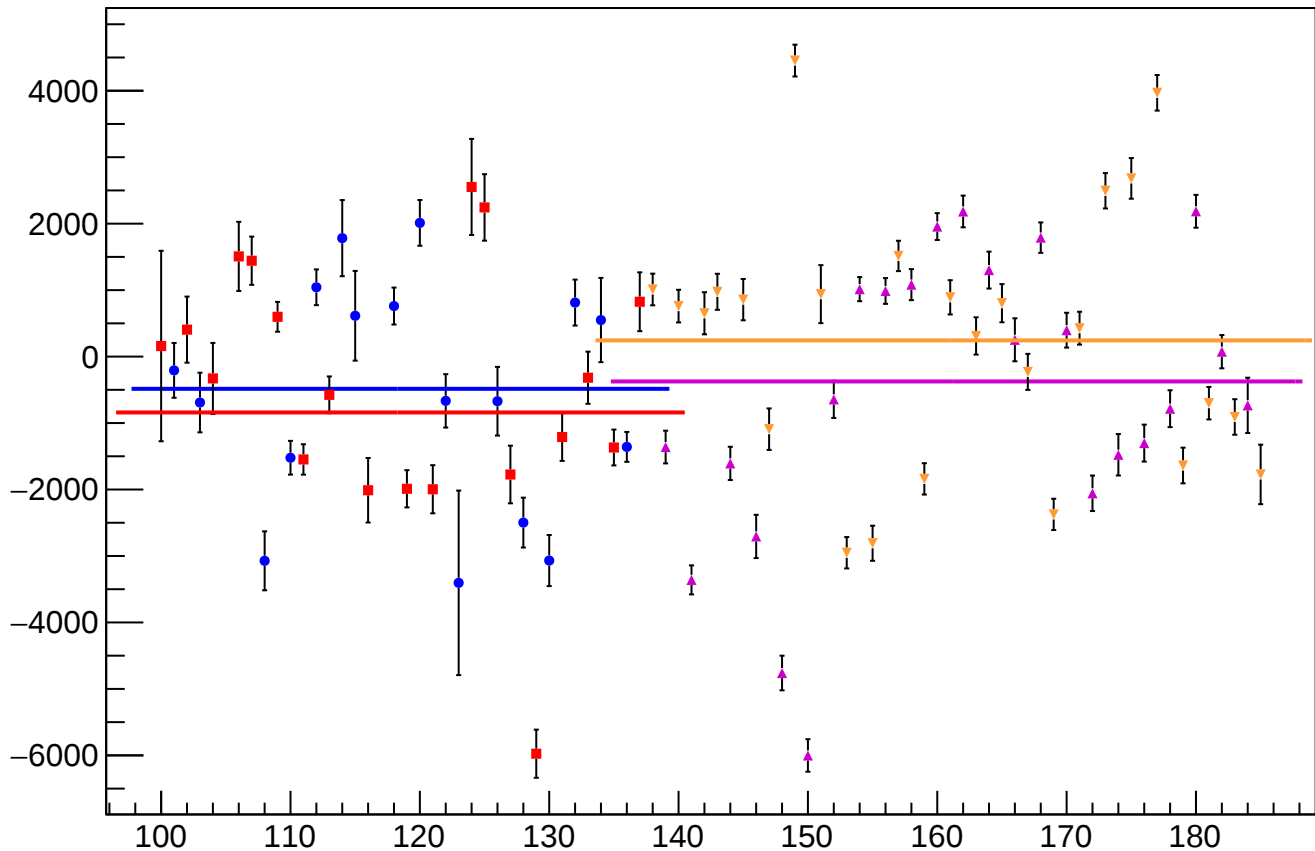
Right: 181.455 $\pm$ 0.037 χ^2/NDF : 2309563.7/35

In: 186.344 $\pm$ 0.028 χ^2/NDF : 1865002.0/39

Out: 191.648 $\pm$ 0.028 χ^2/NDF : 2190589.6/43

All: 189.000 $\pm$ 0.020 χ^2/NDF : 4073731.9/83

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Left: -74.936 ± 37.373 χ^2/NDF : 3222.3/47

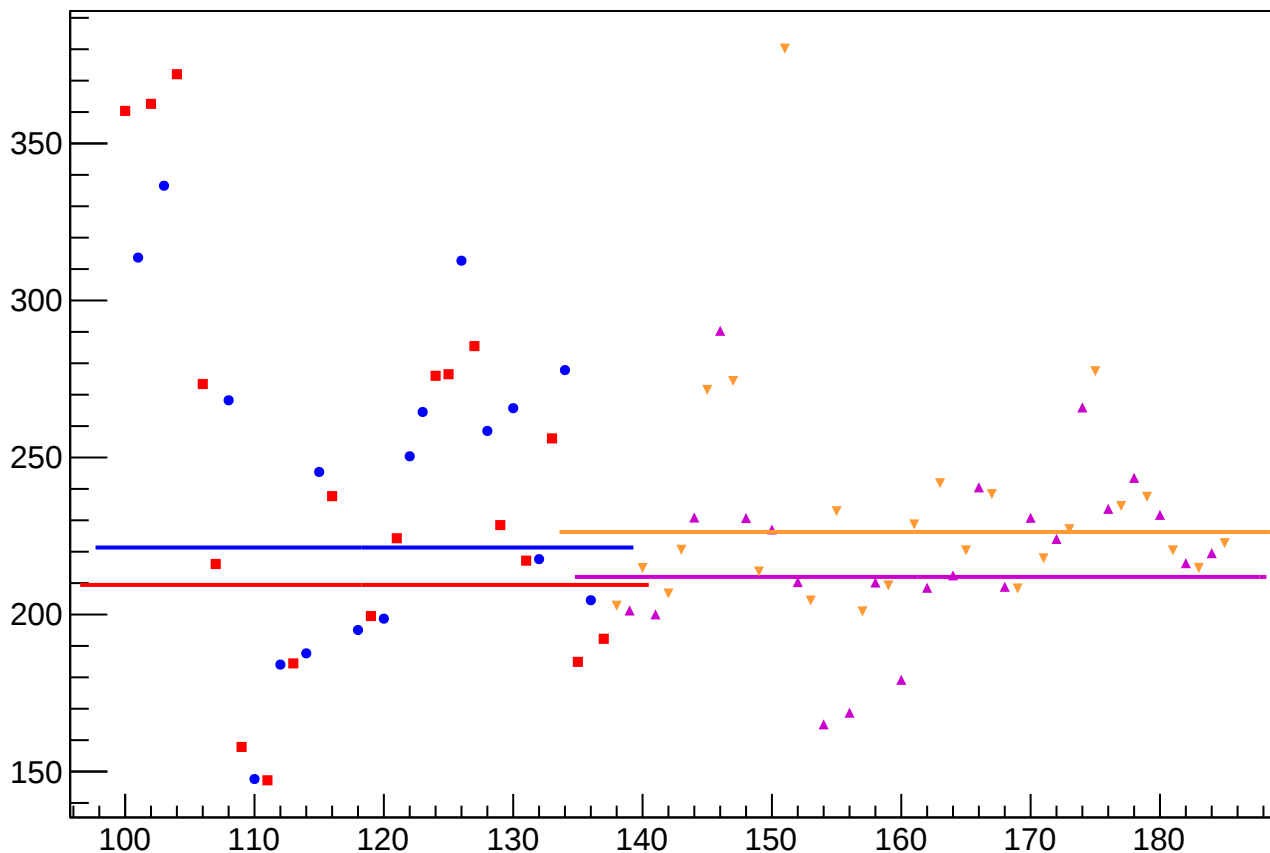
Right: -676.425 ± 60.332 χ^2/NDF : 732.1/35

In: -402.489 ± 44.902 χ^2/NDF : 2087.5/39

Out: -80.573 ± 44.960 χ^2/NDF : 1913.2/43

All: -241.737 ± 31.771 χ^2/NDF : 4026.3/83

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 $\pm$ 0.063 χ^2 /NDF: 645507.4/16

Left Out: 226.292 $\pm$ 0.038 χ^2 /NDF: 521295.3/24

Right Out: 209.428 $\pm$ 0.058 χ^2 /NDF: 879292.0/18

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.908 $\pm$ 0.026 χ^2 /NDF: 1178993.8/47

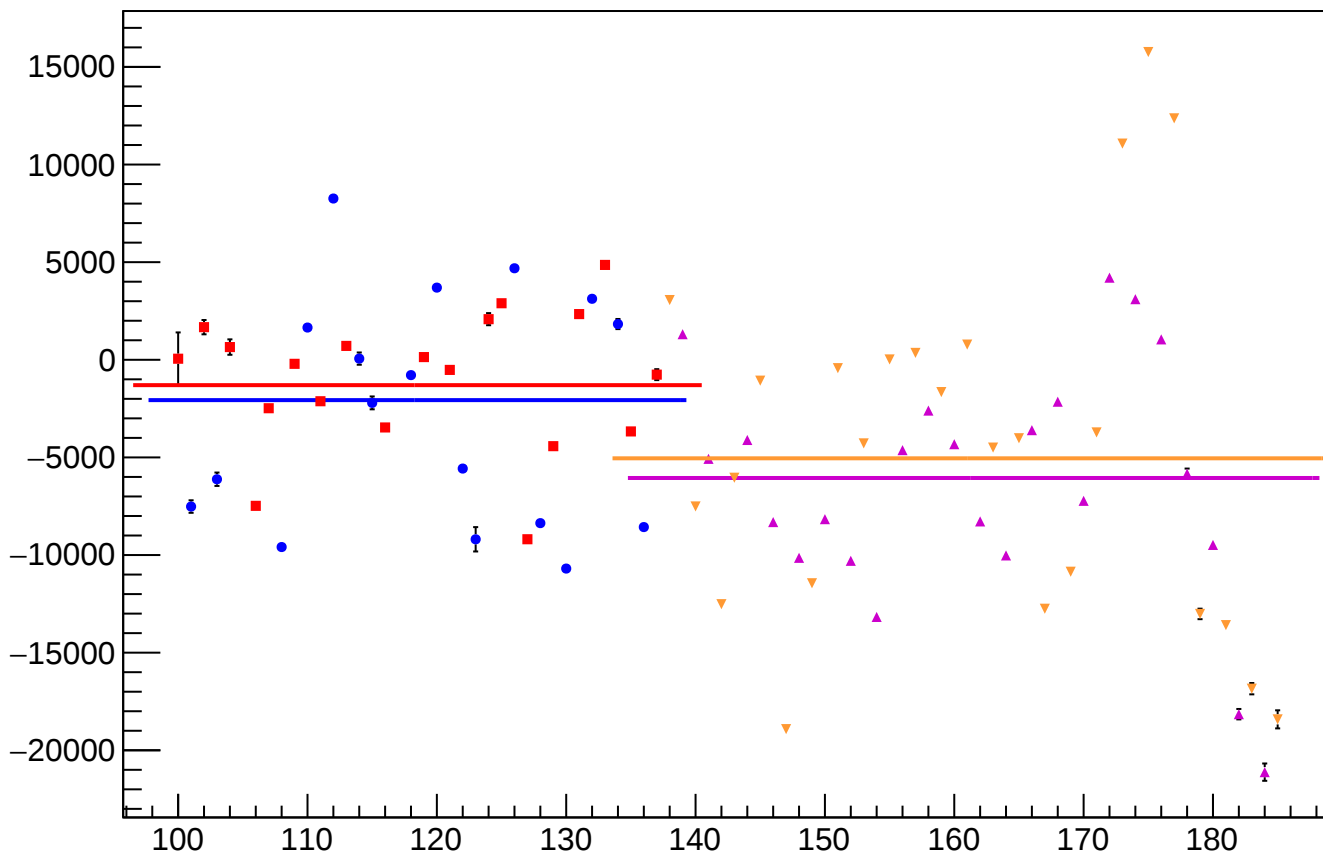
Right: 214.927 $\pm$ 0.043 χ^2 /NDF: 1544173.7/35

In: 214.366 $\pm$ 0.032 χ^2 /NDF: 1246424.7/39

Out: 221.251 $\pm$ 0.032 χ^2 /NDF: 1459557.2/43

All: 217.804 $\pm$ 0.022 χ^2 /NDF: 2729459.3/83

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 ± 47.407 $\chi^2/\text{NDF}: 16535.7/16$

Left Out: -5045.946 ± 33.843 $\chi^2/\text{NDF}: 54291.2/24$

Right Out: -1298.632 ± 44.980 $\chi^2/\text{NDF}: 5909.5/18$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5532.856 ± 24.329 $\chi^2/\text{NDF}: 72309.8/47$

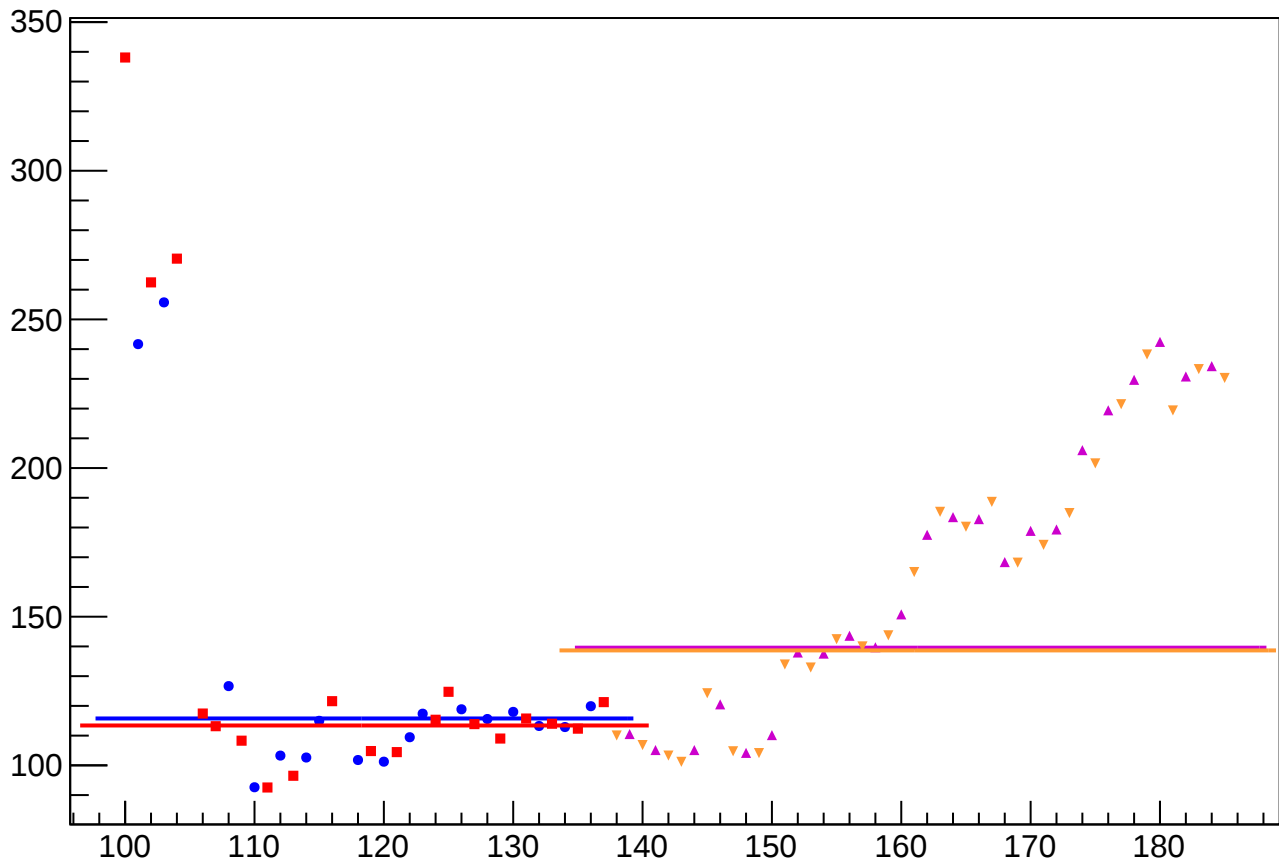
Right: -1661.949 ± 32.630 $\chi^2/\text{NDF}: 22582.8/35$

In: -4646.764 ± 28.156 $\chi^2/\text{NDF}: 38706.4/39$

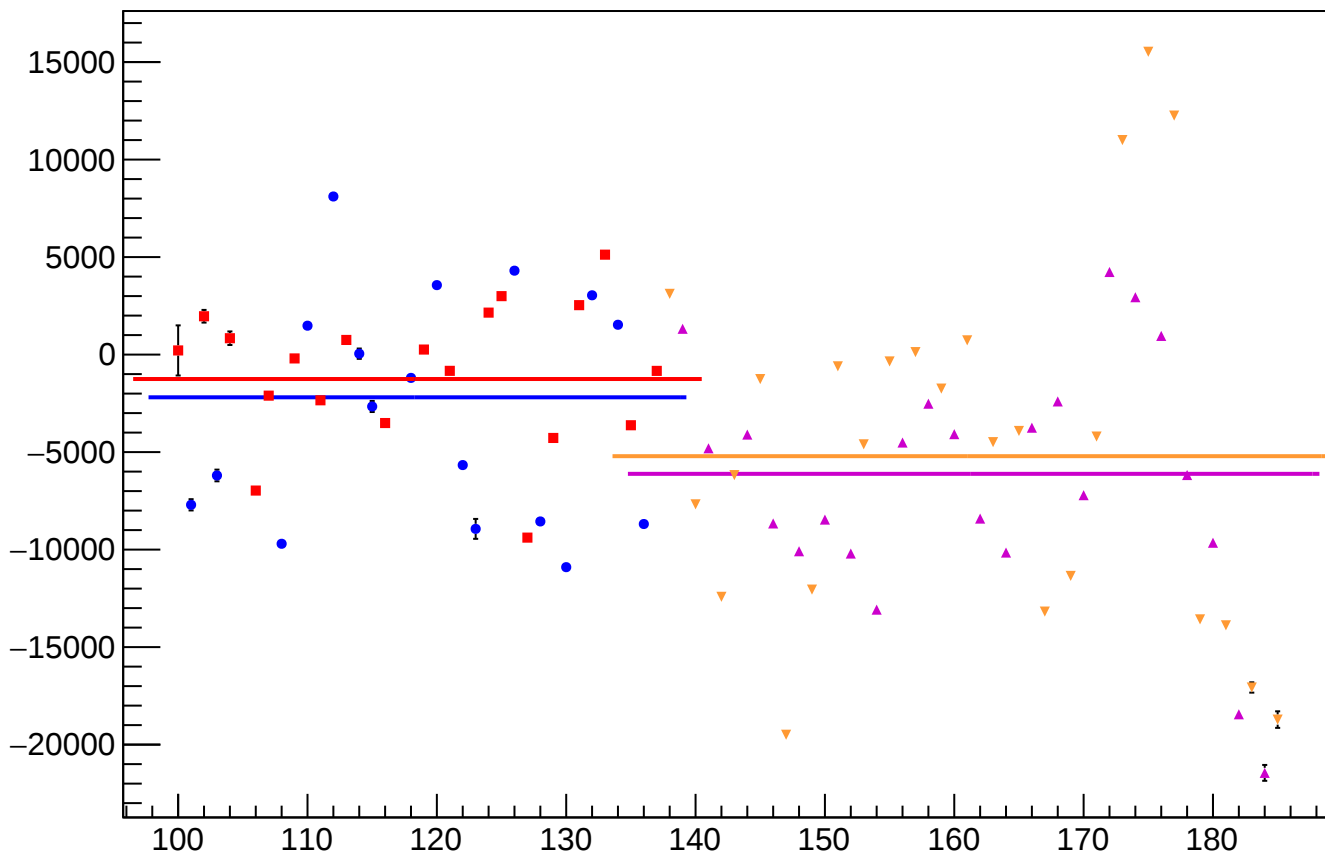
Out: -3691.401 ± 27.043 $\chi^2/\text{NDF}: 64632.4/43$

All: -4149.824 ± 19.504 $\chi^2/\text{NDF}: 103937.7/8$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2190.242 $\pm$ 40.008 χ^2 /NDF: 22811.0/16

Left Out: -5209.294 $\pm$ 30.743 χ^2 /NDF: 64203.0/24

Right Out: -1252.225 $\pm$ 38.029 χ^2 /NDF: 8581.9/18

Left In: -6114.901 $\pm$ 32.126 χ^2 /NDF: 21260.9/22

Left: -5642.197 $\pm$ 22.211 χ^2 /NDF: 85878.7/47

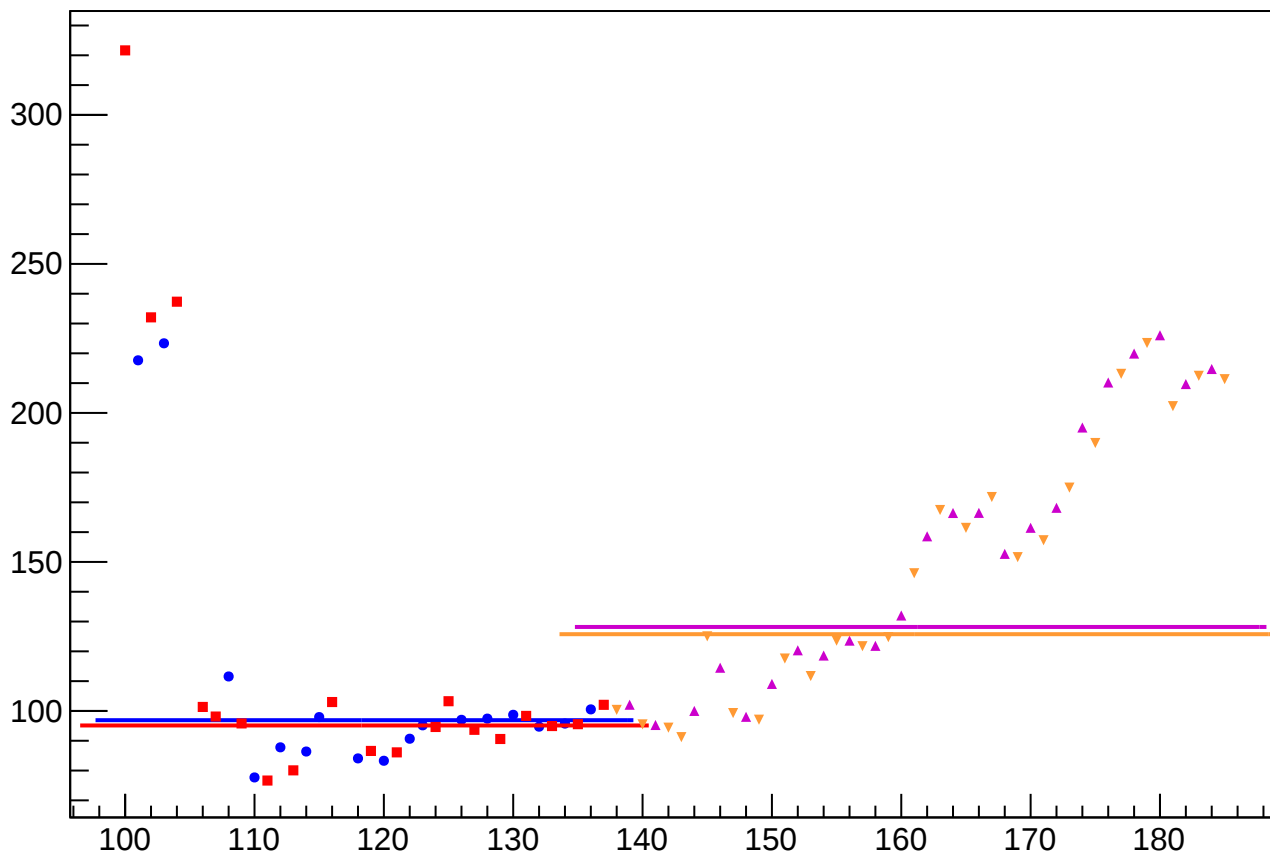
Right: -1697.452 $\pm$ 27.564 χ^2 /NDF: 31681.6/35

In: -4576.389 $\pm$ 25.050 χ^2 /NDF: 49922.4/39

Out: -3645.290 $\pm$ 23.908 χ^2 /NDF: 79332.9/43

All: -4089.141 $\pm$ 17.295 χ^2 /NDF: 129978.4/8

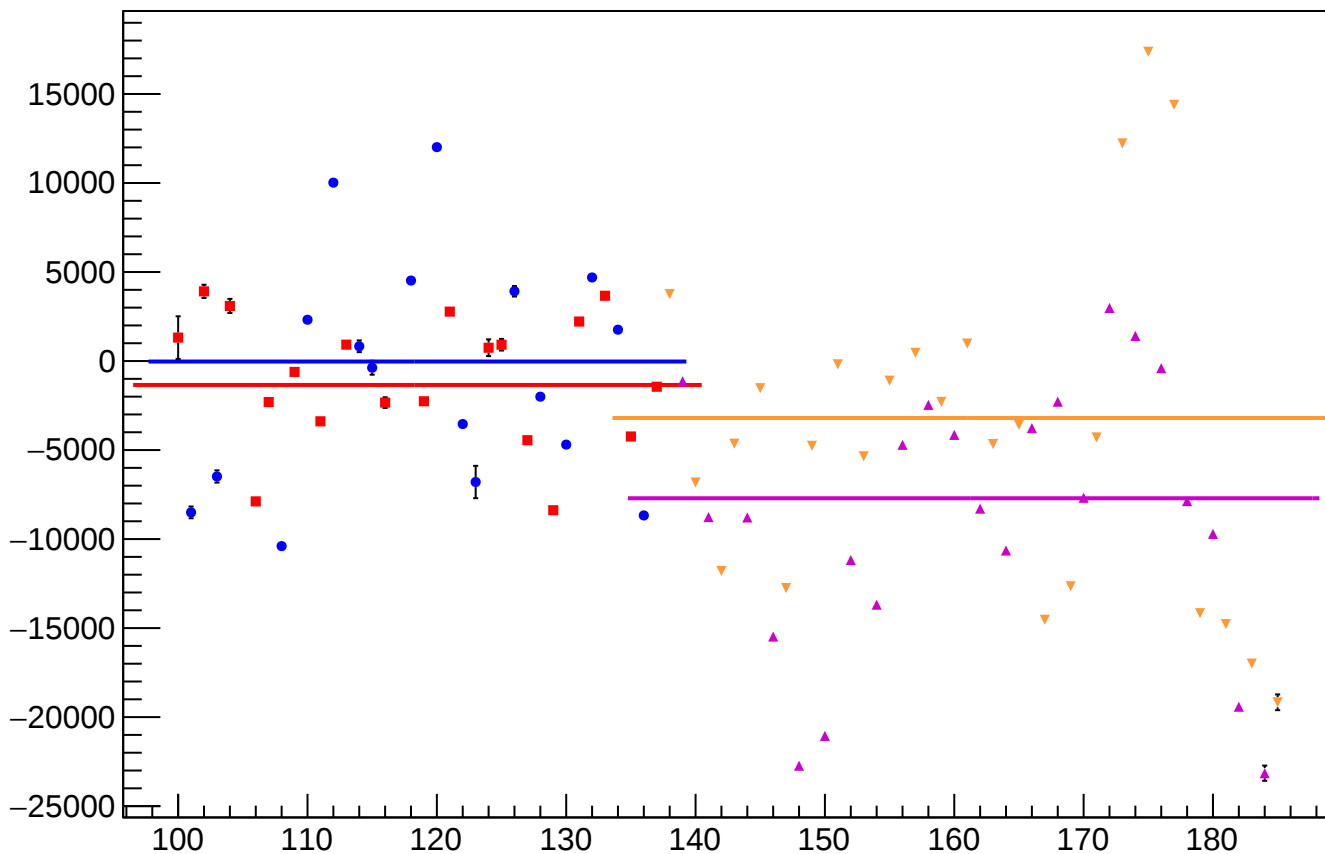
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.898+/-0.028 χ^2/NDF : 817255.1/16
 Left Out: 125.756+/-0.022 χ^2/NDF : 2586722.5/24
 Right Out: 95.130+/-0.027 χ^2/NDF : 858457.3/18
 Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.917+/-0.016 χ^2/NDF : 4925660.1/47
 Right: 95.969+/-0.019 χ^2/NDF : 1677765.8/35
 In: 115.919+/-0.018 χ^2/NDF : 3893775.5/39
 Out: 113.651+/-0.017 χ^2/NDF : 4229668.3/43
 All: 114.733+/-0.012 χ^2/NDF : 8132024.4/83

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -27.457 ± 54.732 $\chi^2/\text{NDF}: 16364.6/16$

Left Out: -3198.528 ± 40.694 $\chi^2/\text{NDF}: 36659.8/24$

Right Out: -1343.122 ± 52.343 $\chi^2/\text{NDF}: 3846.7/18$

Left In: -7707.068 ± 42.990 $\chi^2/\text{NDF}: 21268.3/22$

Left: -5329.215 ± 29.553 $\chi^2/\text{NDF}: 63728.9/47$

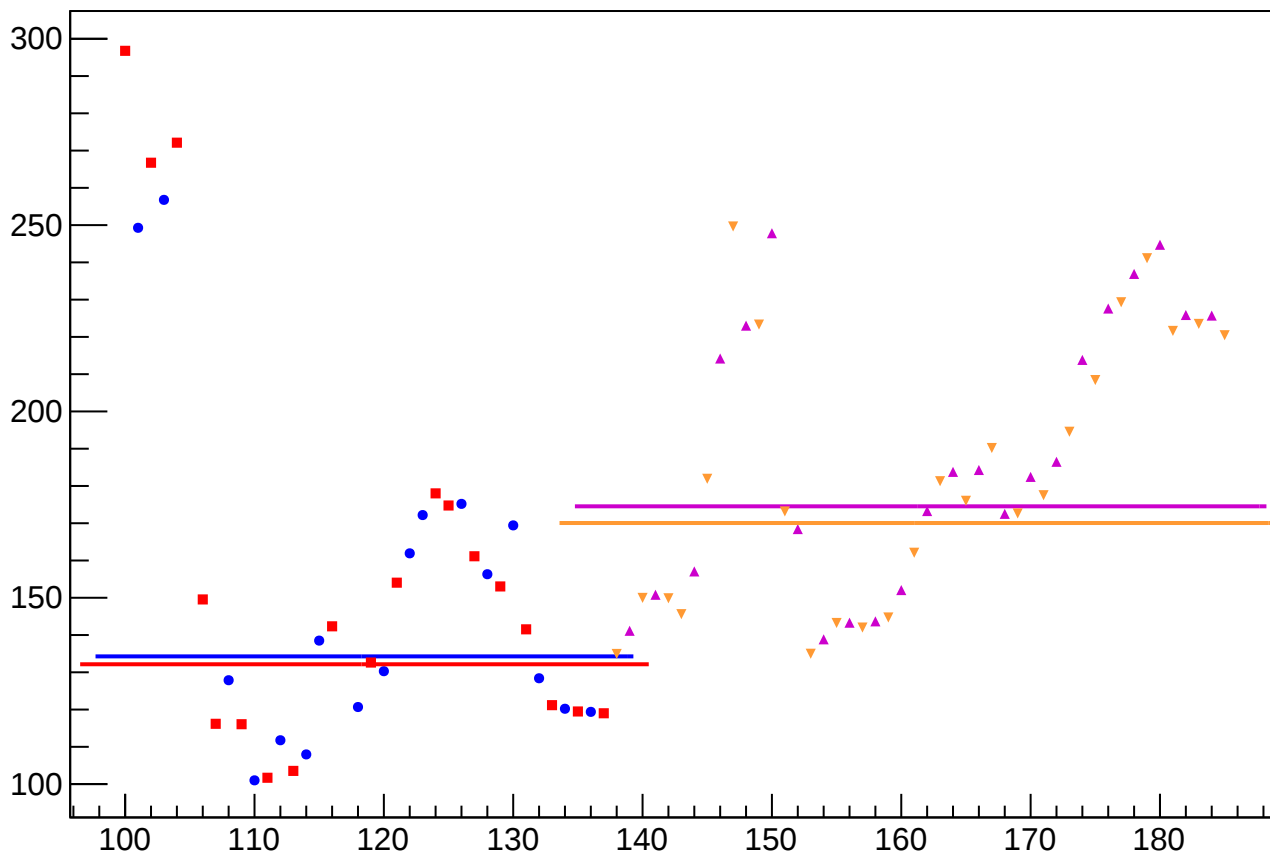
Right: -714.627 ± 37.829 $\chi^2/\text{NDF}: 20513.1/35$

In: -4776.905 ± 33.808 $\chi^2/\text{NDF}: 49808.7/39$

Out: -2499.549 ± 32.127 $\chi^2/\text{NDF}: 41289.7/43$

All: -3580.215 ± 23.289 $\chi^2/\text{NDF}: 93482.7/83$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.270+/-0.039 χ^2/NDF : 787098.5/16

Left Out: 170.061+/-0.029 χ^2/NDF :1243151.6/24

Right Out: 132.155+/-0.037 χ^2/NDF : 865020.1/18

Left In: 174.539+/-0.030 χ^2/NDF :1210071.2/22

Left: 172.177+/-0.021 χ^2/NDF : 2464669.0/47

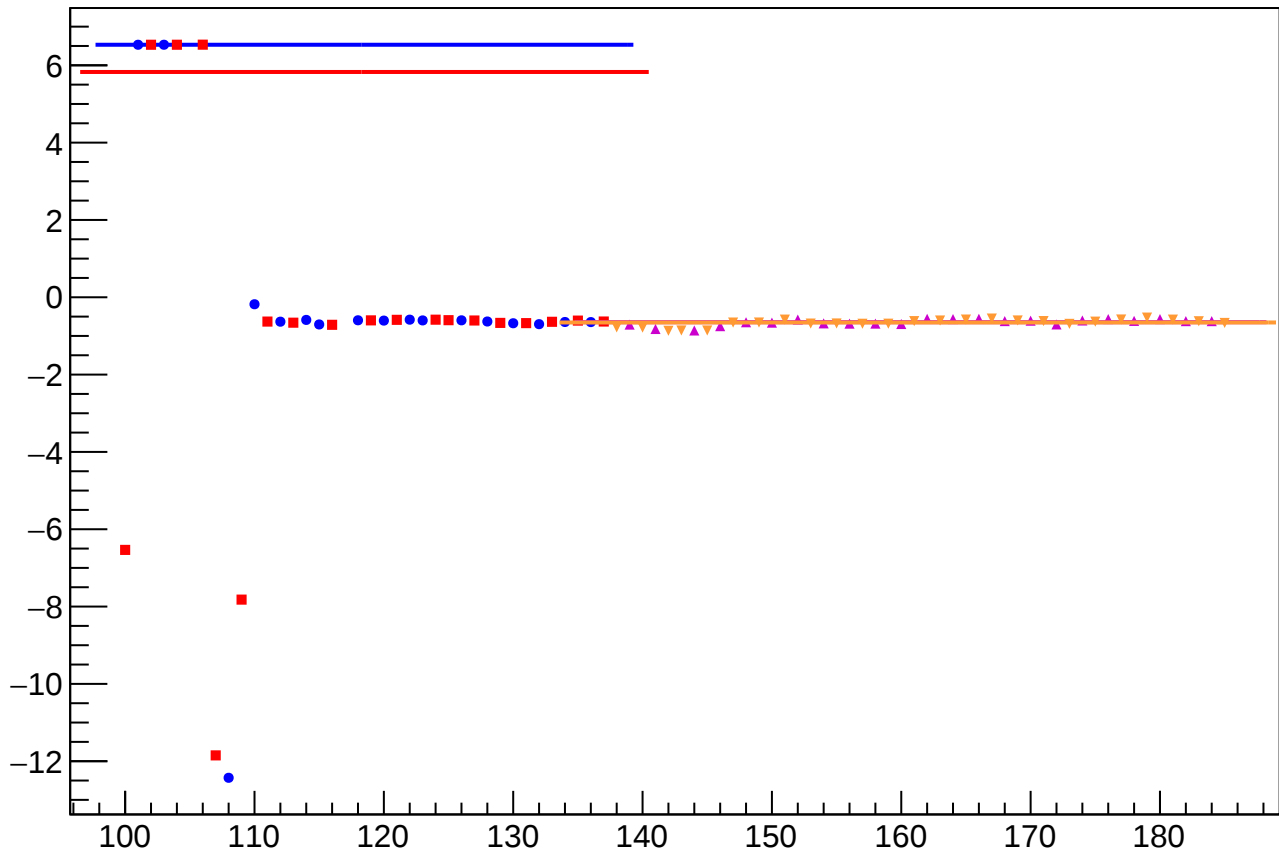
Right: 133.165+/-0.027 χ^2/NDF : 1653679.5/35

In: 159.175+/-0.024 χ^2/NDF :2666730.4/39

Out: 155.781+/-0.023 χ^2/NDF :2761923.8/43

All: 157.391+/-0.016 χ^2/NDF : 5439245.3/83

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532 $\pm$ 0.000 χ^2/NDF : 127565119308.7/16

Left Out: -0.652 $\pm$ 0.000 χ^2/NDF : 171281946.0/24

Right Out: 5.827 $\pm$ 0.000 χ^2/NDF : 755947318870738.2/18

Left In: -0.644 $\pm$ 0.000 χ^2/NDF : 122913584.0/22

Left: -0.648 $\pm$ 0.000 χ^2/NDF : 294739874.5/47

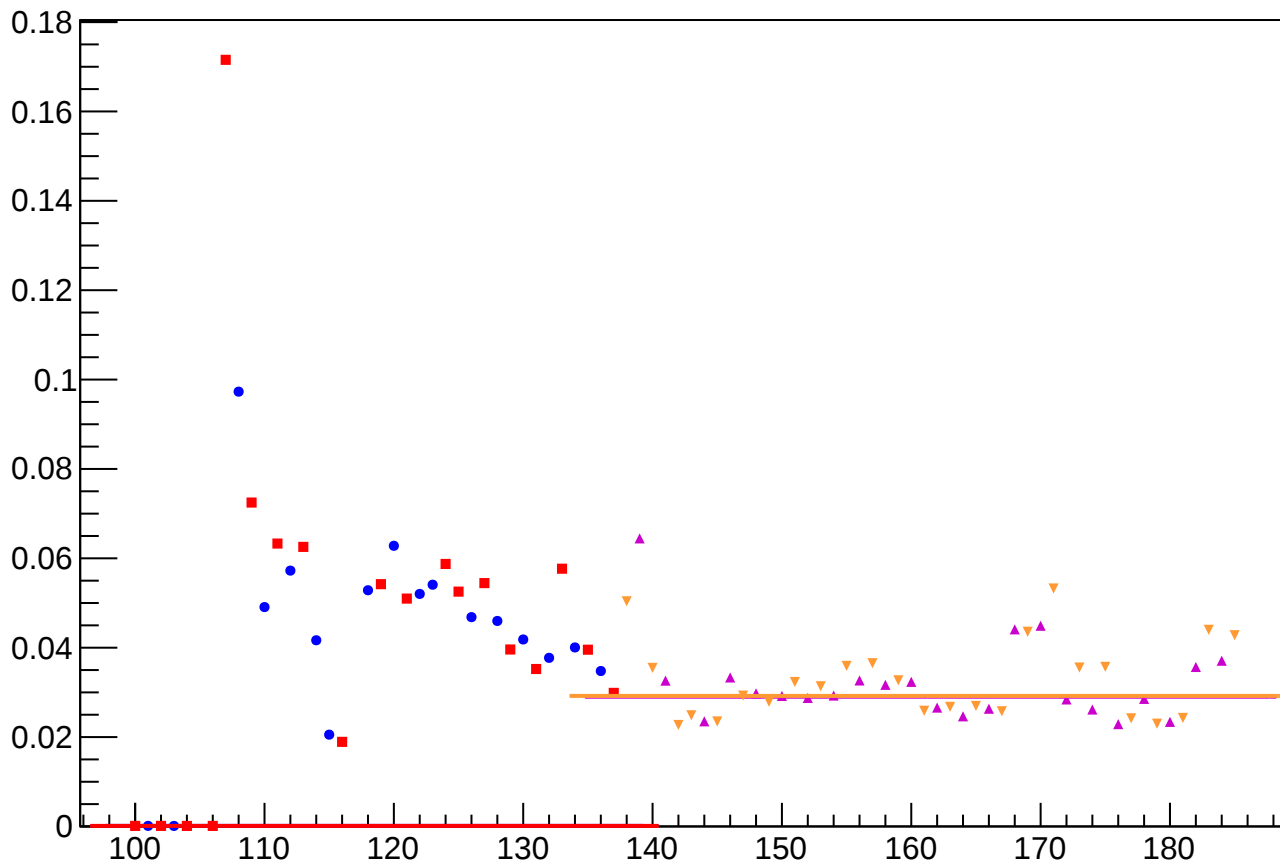
Right: 6.155 $\pm$ 0.000 χ^2/NDF : 776078051369928.0/47

In: 6.530 $\pm$ 0.000 χ^2/NDF : 952912537188.0/39

Out: 5.826 $\pm$ 0.000 χ^2/NDF : 756648173808137.2/47

All: 6.153 $\pm$ 0.000 χ^2/NDF : 77759242760252.0/94

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 :1466501.5/24

Right Out: 0.000+/-0.000 χ^2/NDF : 9347467.6/18

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2631040.4/47

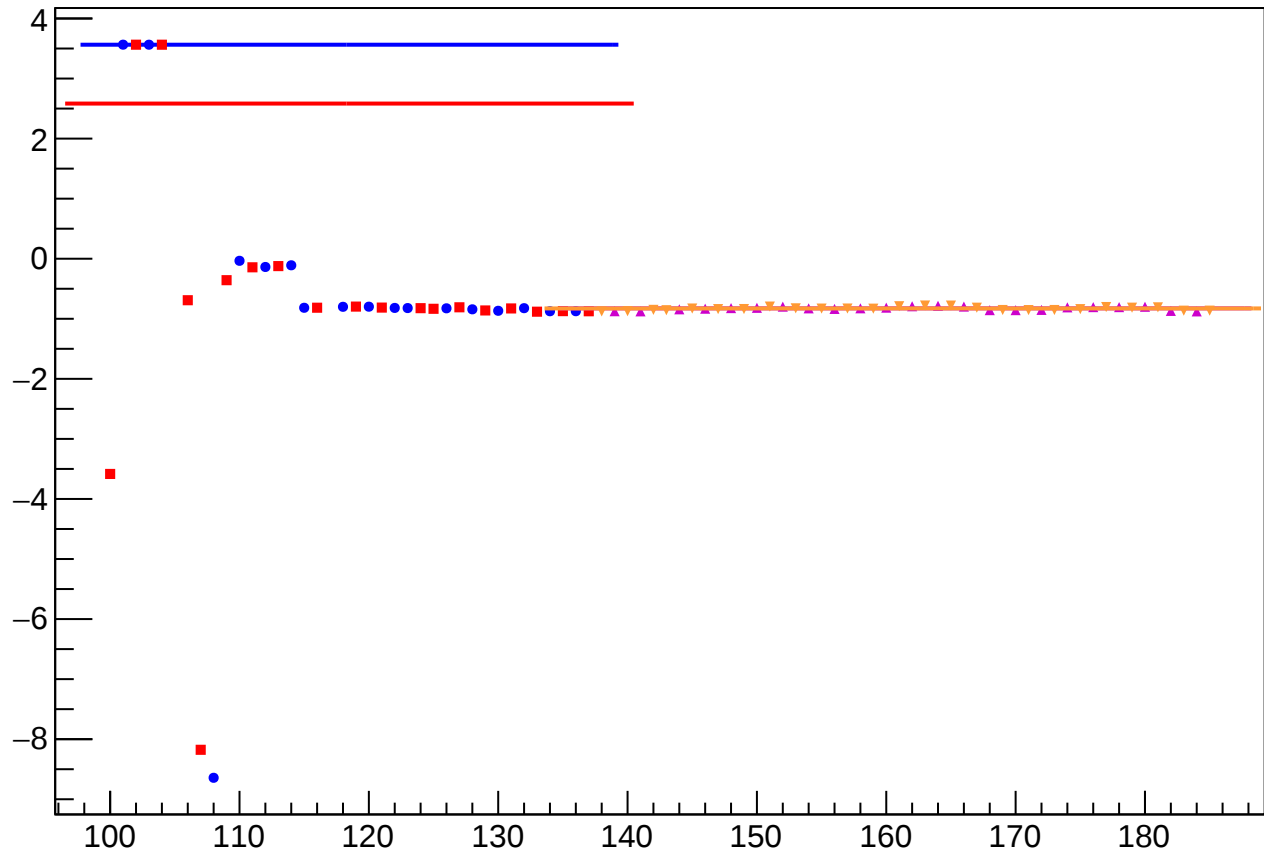
Right: 0.000+/-0.000 χ^2/NDF : 18355822.2/35

In: 0.000+/-0.000 χ^2/NDF :36969810.2/39

Out: 0.000+/-0.000 χ^2/NDF :39062877.2/43

All: 0.000+/-0.000 χ^2/NDF : 76033119.8/83

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 : 167823999.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253504623679499.2/18

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340559332.6/47

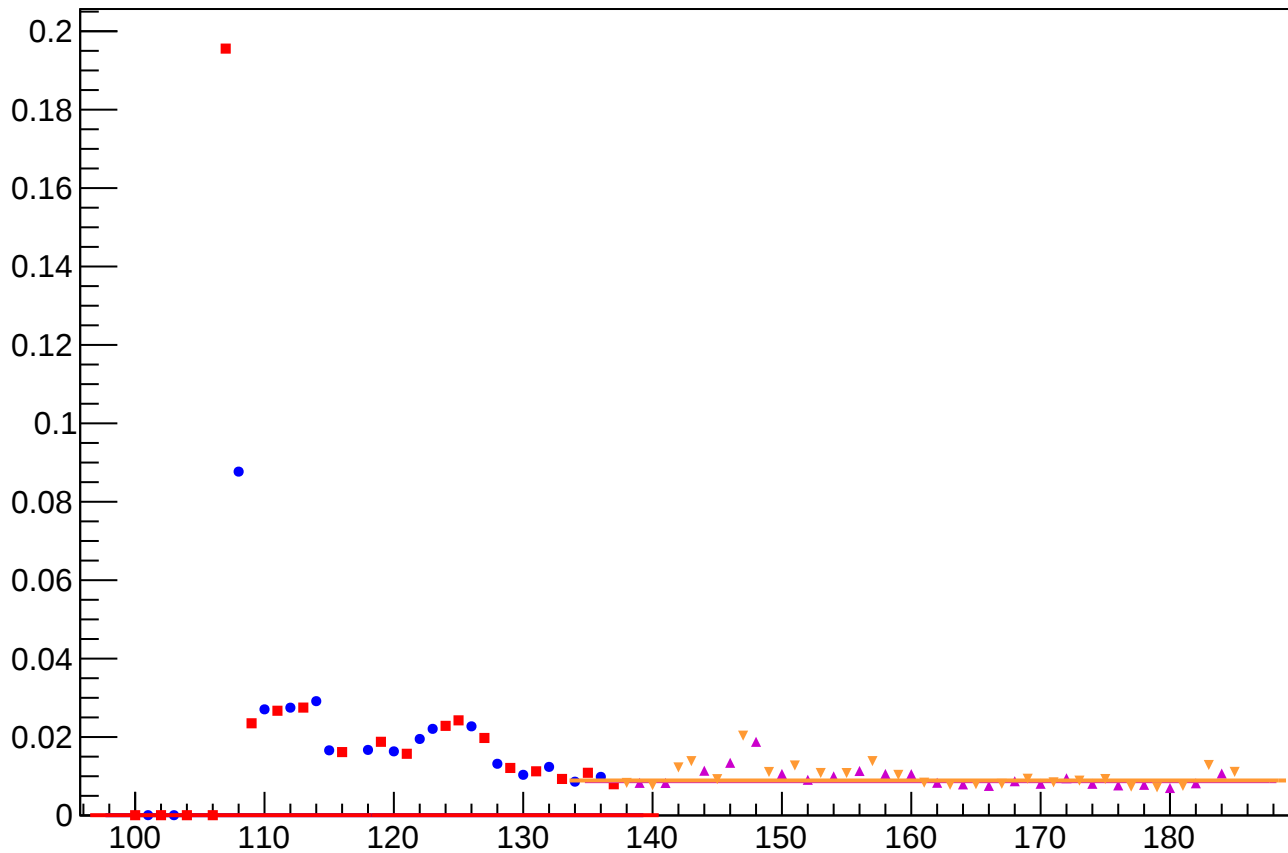
Right: 3.040+/-0.000 χ^2/NDF : 1382260831198329.0/100

In: 3.560+/-0.000 χ^2/NDF : 4130772938686.2/39

Out: 2.581+/-0.000 χ^2/NDF : 1255720324303891.5/100

All: 3.038+/-0.000 χ^2/NDF : 13879387935762.0/100

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 :1451279.7/24

Right Out: 0.000+/-0.000

χ^2/NDF : 9837255.2/18

Left In: 0.009+/-0.000

χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000

χ^2/NDF : 2498342.0/47

Right: 0.000+/-0.000

χ^2/NDF : 19651558.2/35

In: 0.000+/-0.000

χ^2/NDF :39350176.7/39

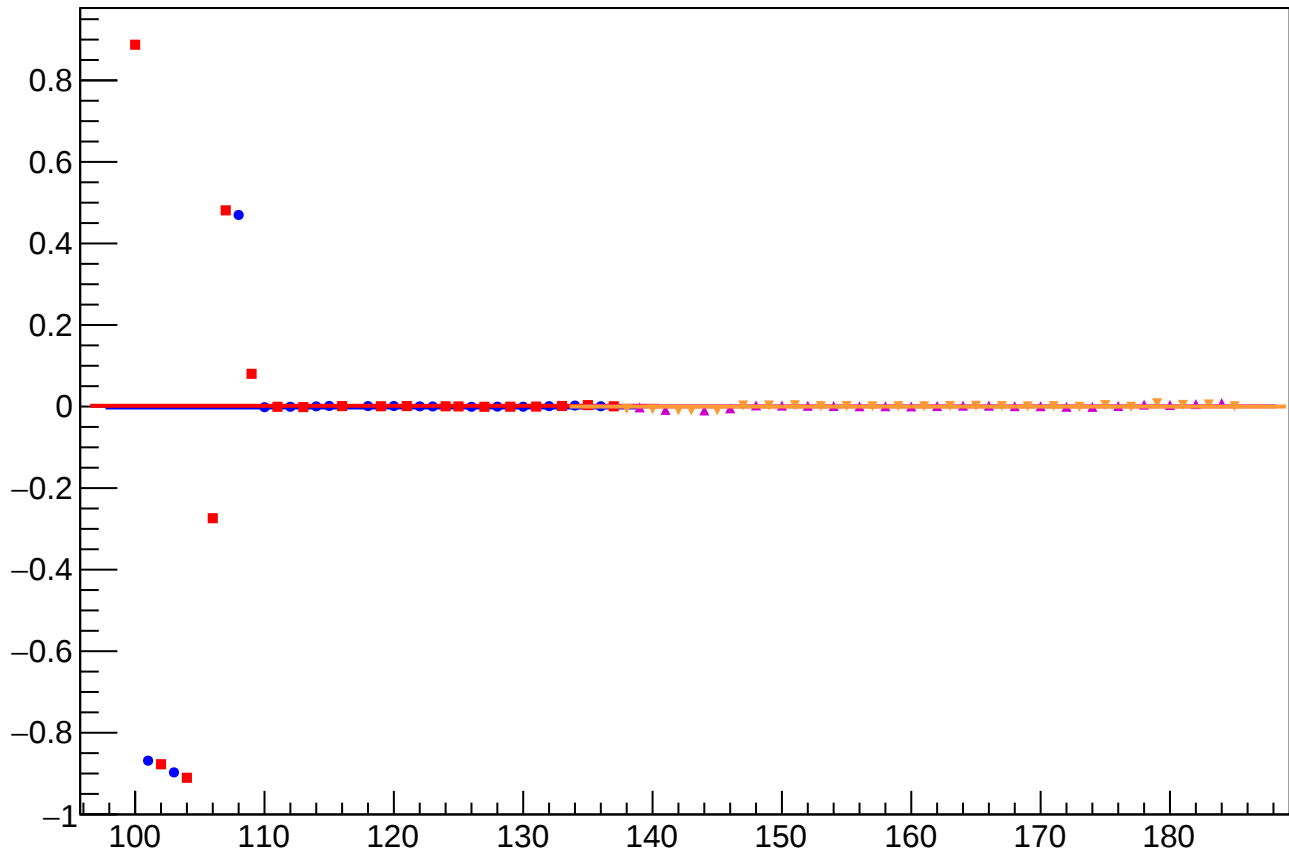
Out: 0.000+/-0.000

χ^2/NDF :41118504.2/43

All: 0.000+/-0.000

χ^2/NDF : 80469455.3/83

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 : 144561604.7/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3041330797.2/18

Left In: 0.001+/-0.000 χ^2/NDF : 101439617.3/22

Left: 0.000+/-0.000 χ^2/NDF : 247097996.2/47

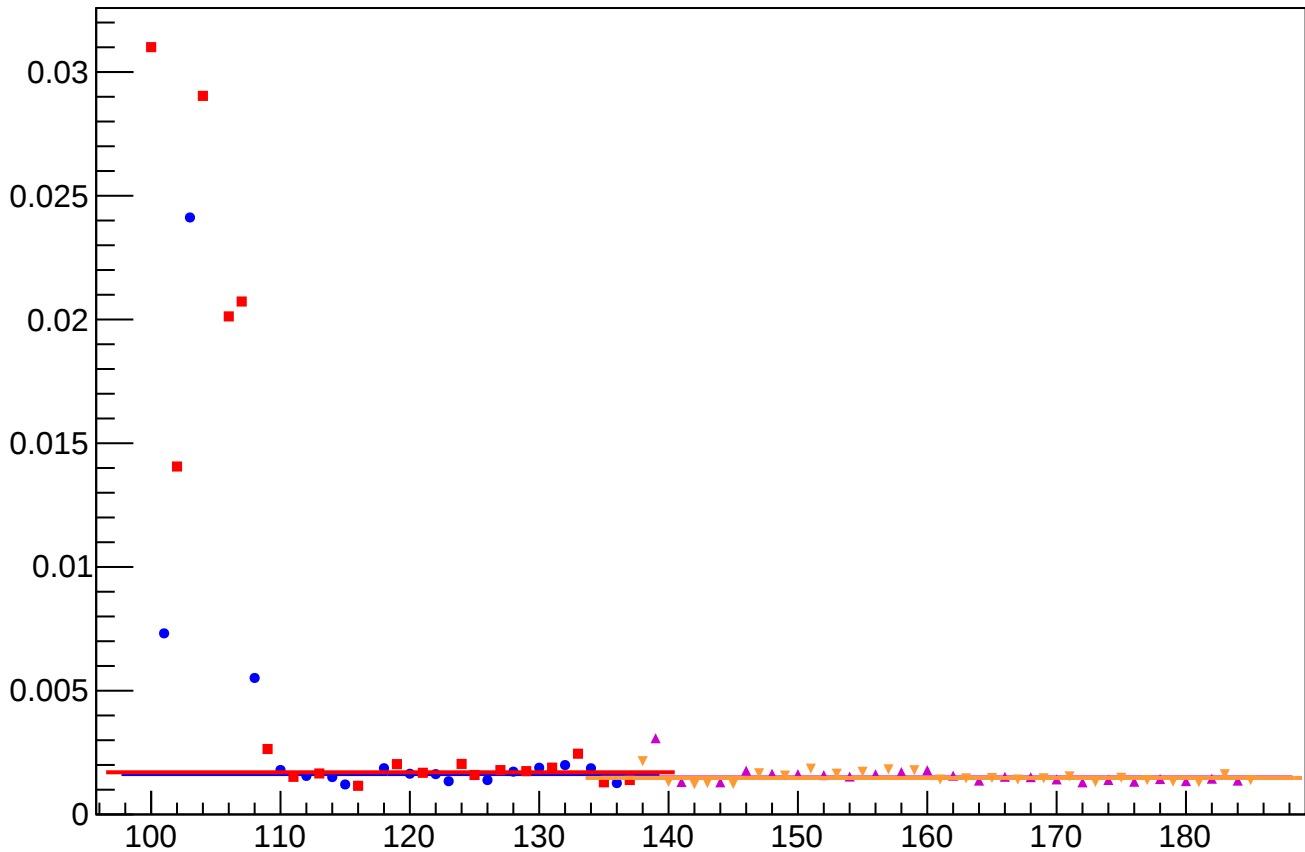
Right: -0.000+/-0.000 χ^2/NDF : 12850553248.4/35

In: -0.000+/-0.000 χ^2/NDF : 9907915071.2/39

Out: 0.000+/-0.000 χ^2/NDF : 3190137726.0/43

All: 0.000+/-0.000 χ^2/NDF : 13098614631.0/8

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1922148.8/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:520459.8/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3024458.4/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:626044.8/22

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1149060.1/47

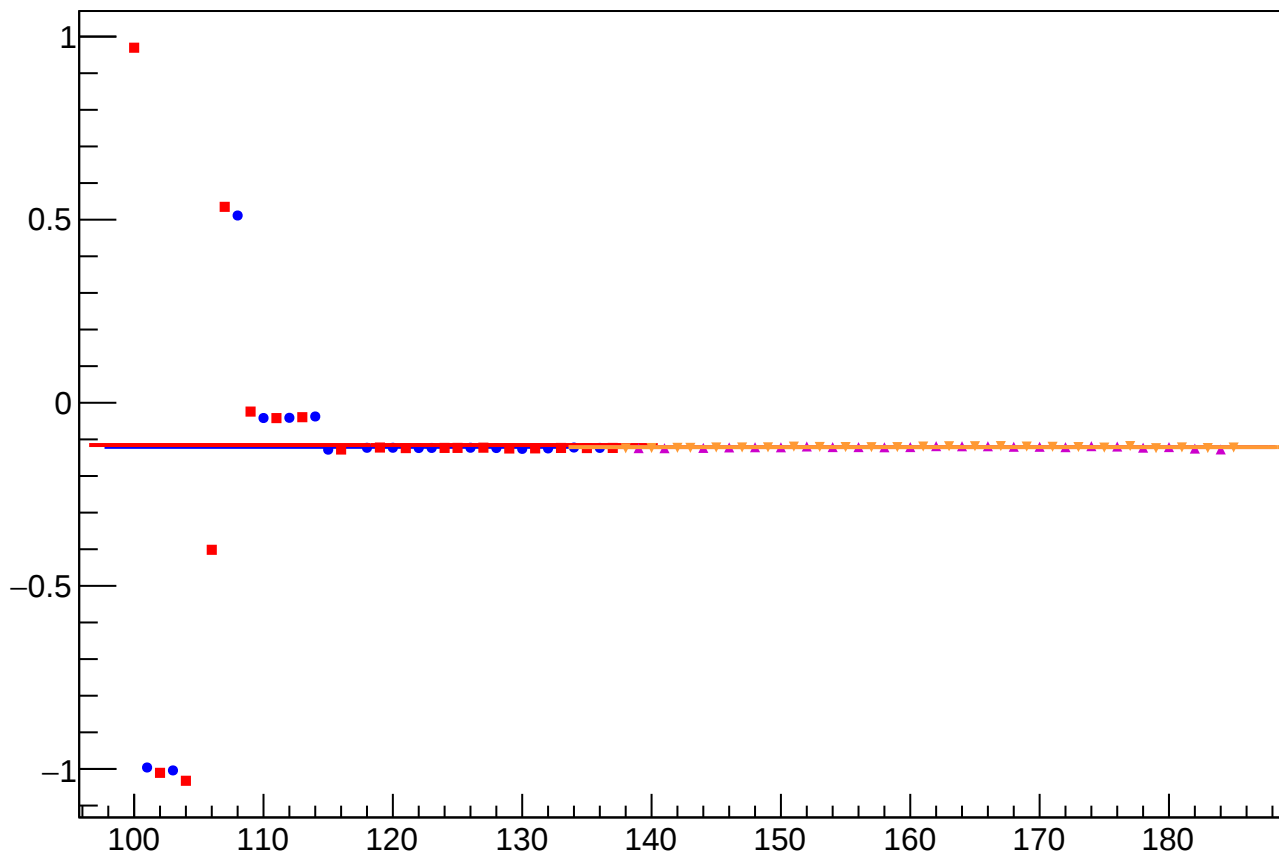
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4954975.3/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2598097.8/39

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3675376.1/43

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 6273861.4/83

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932772427.7/16

Left Out: -0.121+/-0.000 χ^2/NDF : 57564176.5/24

Right Out: -0.115+/-0.000 χ^2/NDF : 2456433698.5/18

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 109883975.5/47

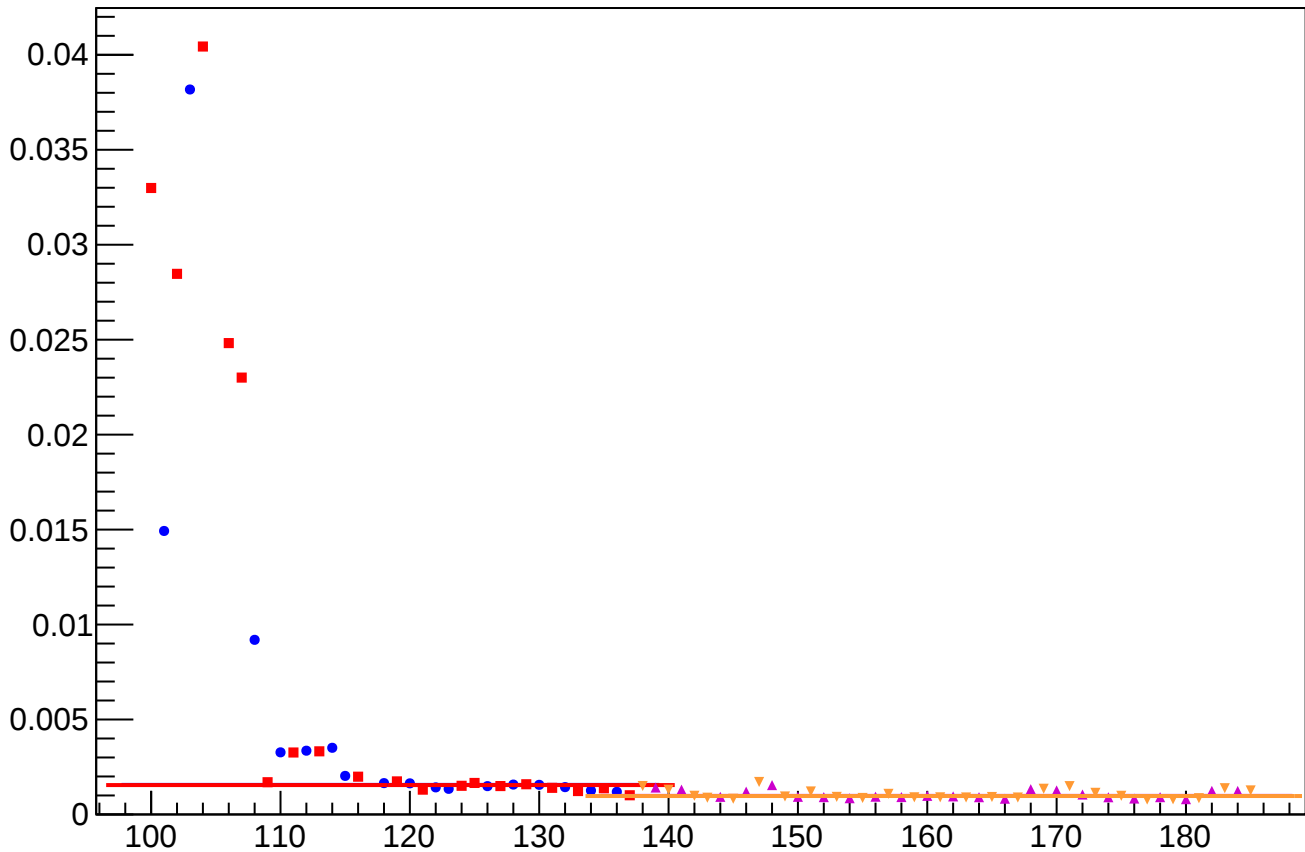
Right: -0.118+/-0.000 χ^2/NDF : 6412289085.1/35

In: -0.121+/-0.000 χ^2/NDF : 3985449148.7/39

Out: -0.121+/-0.000 χ^2/NDF : 2568900513.3/43

All: -0.121+/-0.000 χ^2/NDF : 6555408183.7/8

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 :1369283.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3535649.7/18

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2340978.8/47

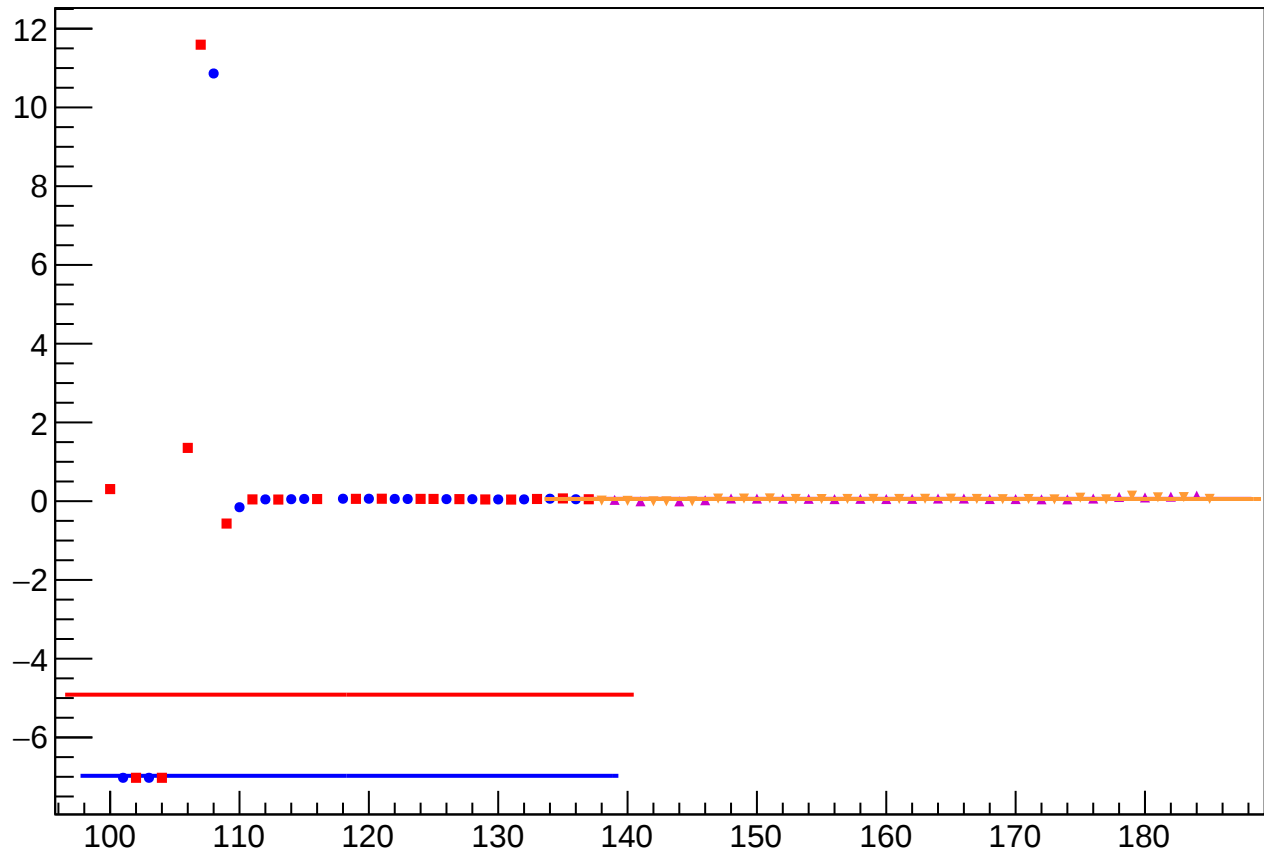
Right: 0.002+/-0.000 χ^2/NDF : 6434006.7/35

In: 0.001+/-0.000 χ^2/NDF :5009064.8/39

Out: 0.001+/-0.000 χ^2/NDF :6044944.2/43

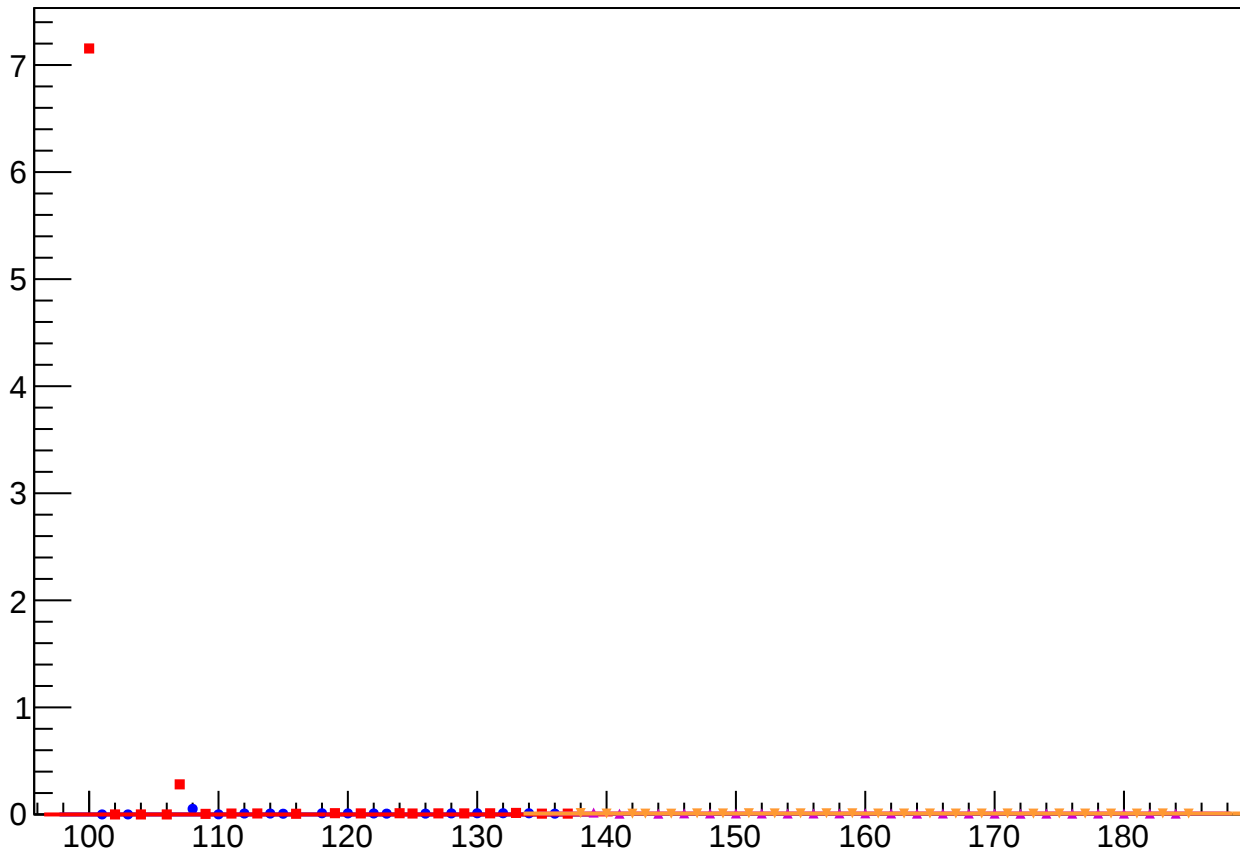
All: 0.001+/-0.000 χ^2/NDF : 11056182.7/83

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8797358006083.6/16
 Left Out: 0.056+/-0.000 χ^2/NDF : 235630729.0/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365352656389636.4/18
 Left In: 0.059+/-0.000 χ^2/NDF : 178541521.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 415232934.8/47
 Right: -5.900+/-0.000 χ^2/NDF : 430333266539126.9
 In: -6.926+/-0.000 χ^2/NDF : 17552878453065.5/39
 Out: -4.879+/-0.000 χ^2/NDF : 370115590135800.9
 All: -5.858+/-0.000 χ^2/NDF : 4434569889975

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 8350428.8/16

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 492391.9/24

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 8775433.1/18

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 602517.2/22

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 1098602.9/47

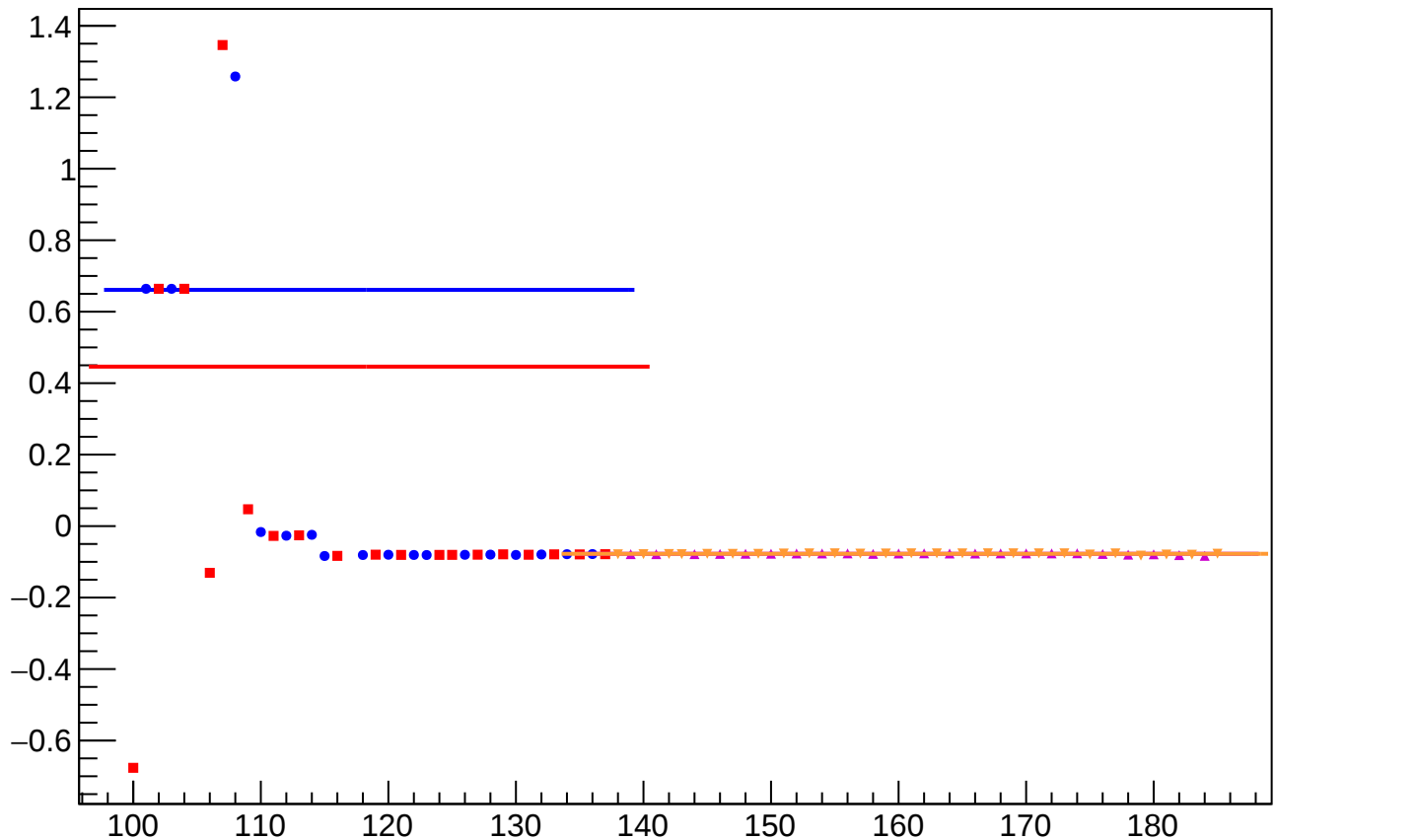
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 17126212.9/35

In: 0.000 $\pm$ 0.000 χ^2/NDF : 35769405.5/39

Out: 0.000 $\pm$ 0.000 χ^2/NDF : 37576774.2/43

All: 0.000 $\pm$ 0.000 χ^2/NDF : 73346753.1/83

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 : 266819519.3/47

Left Out: -0.078+/-0.000

χ^2/NDF : 156029539.0/24

Right: 0.549+/-0.000

χ^2/NDF : 474000383494468.1

Right Out: 0.446+/-0.000

χ^2/NDF : 405428422570886.0/18

In: 0.647+/-0.000

χ^2/NDF : 33699407381732.8/39

Out: 0.436+/-0.000

χ^2/NDF : 420484847771164.5/4

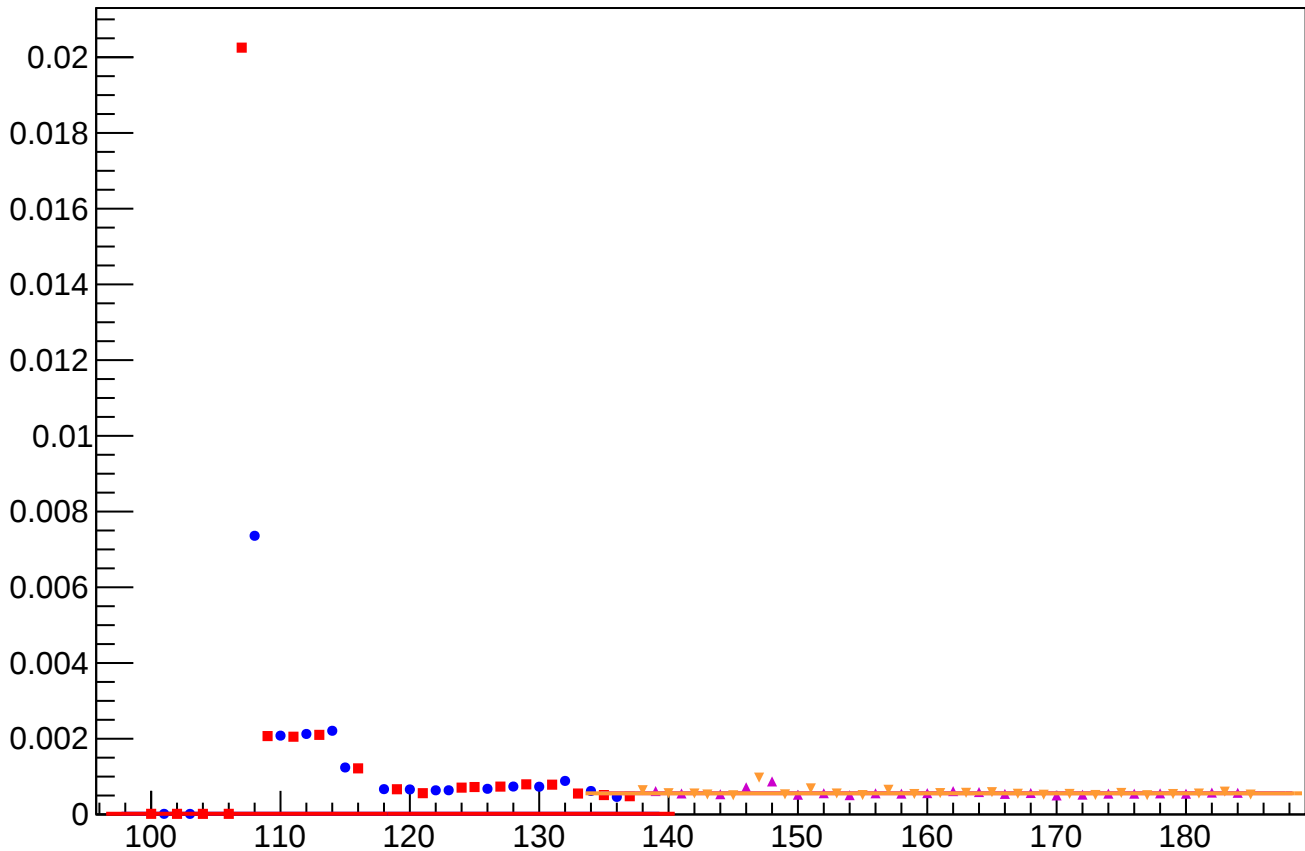
Left In: -0.077+/-0.000

χ^2/NDF : 110762924.1/22

All: 0.537+/-0.000

χ^2/NDF : 5156952833655

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 : 465711.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 9460895.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822128.4/47

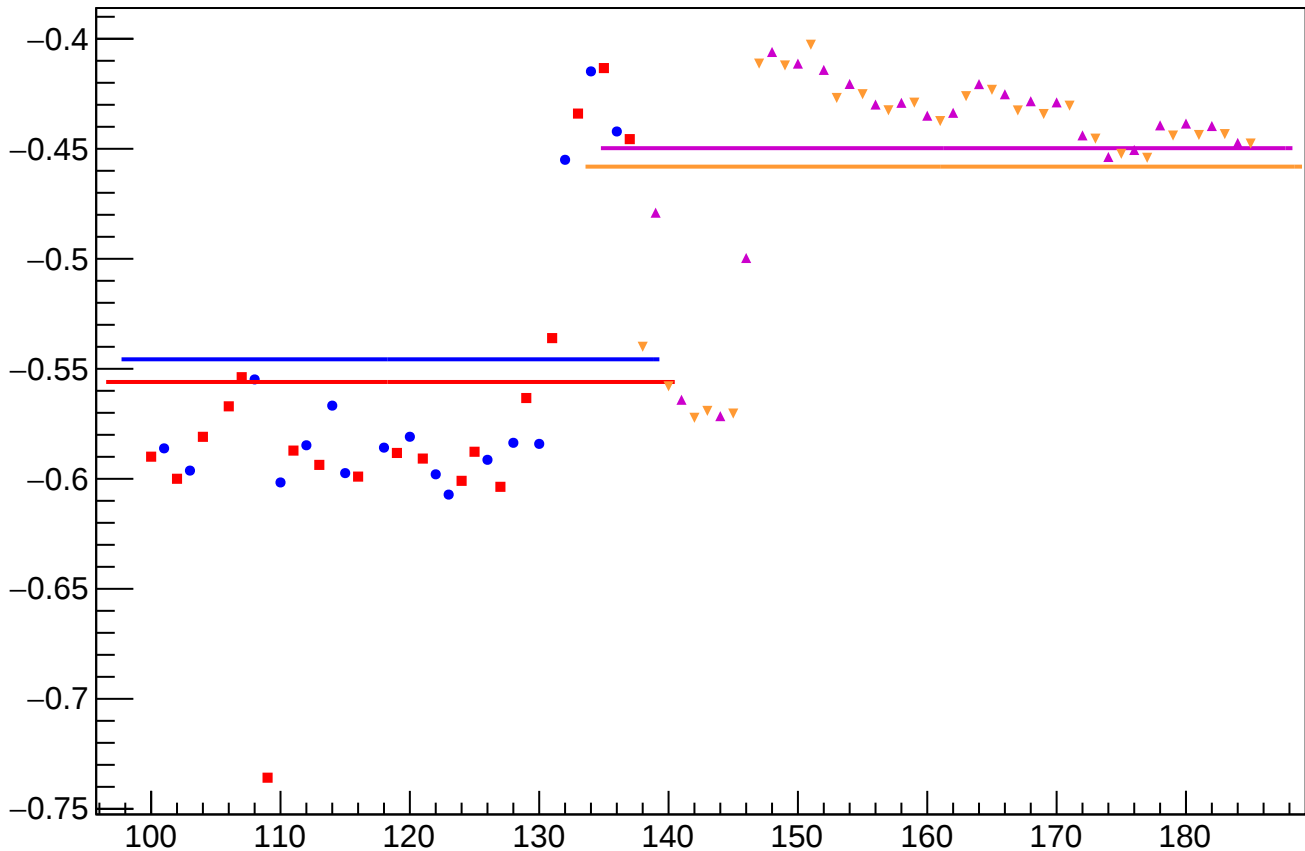
Right: 0.000+/-0.000 χ^2/NDF : 19419231.6/35

In: 0.000+/-0.000 χ^2/NDF : 40691458.2/39

Out: 0.000+/-0.000 χ^2/NDF : 41887583.3/43

All: 0.000+/-0.000 χ^2/NDF : 82579520.7/83

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546+/-0.000 χ^2/NDF : 46331446.0/16

Left Out: -0.458+/-0.000 χ^2/NDF : 108139741.9/24

Right Out: -0.556+/-0.000 χ^2/NDF : 64058429.8/18

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.454+/-0.000 χ^2/NDF : 185607859.2/47

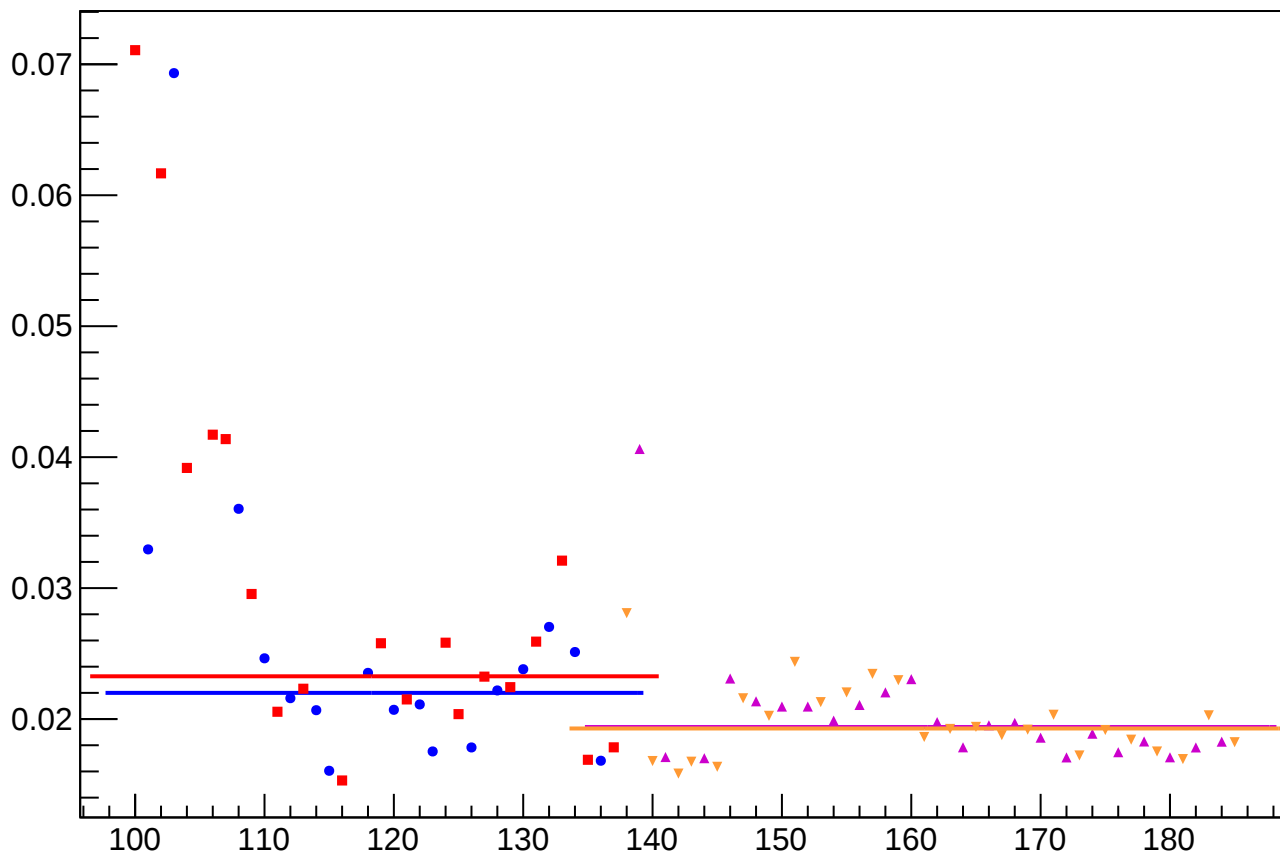
Right: -0.551+/-0.000 χ^2/NDF : 110929363.5/35

In: -0.471+/-0.000 χ^2/NDF : 198006533.2/39

Out: -0.478+/-0.000 χ^2/NDF : 247687701.4/43

All: -0.474+/-0.000 χ^2/NDF : 446743374.6/83

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 : 479700.2/24

Right Out: 0.023+/-0.000 χ^2/NDF : 1155060.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1106636.5/47

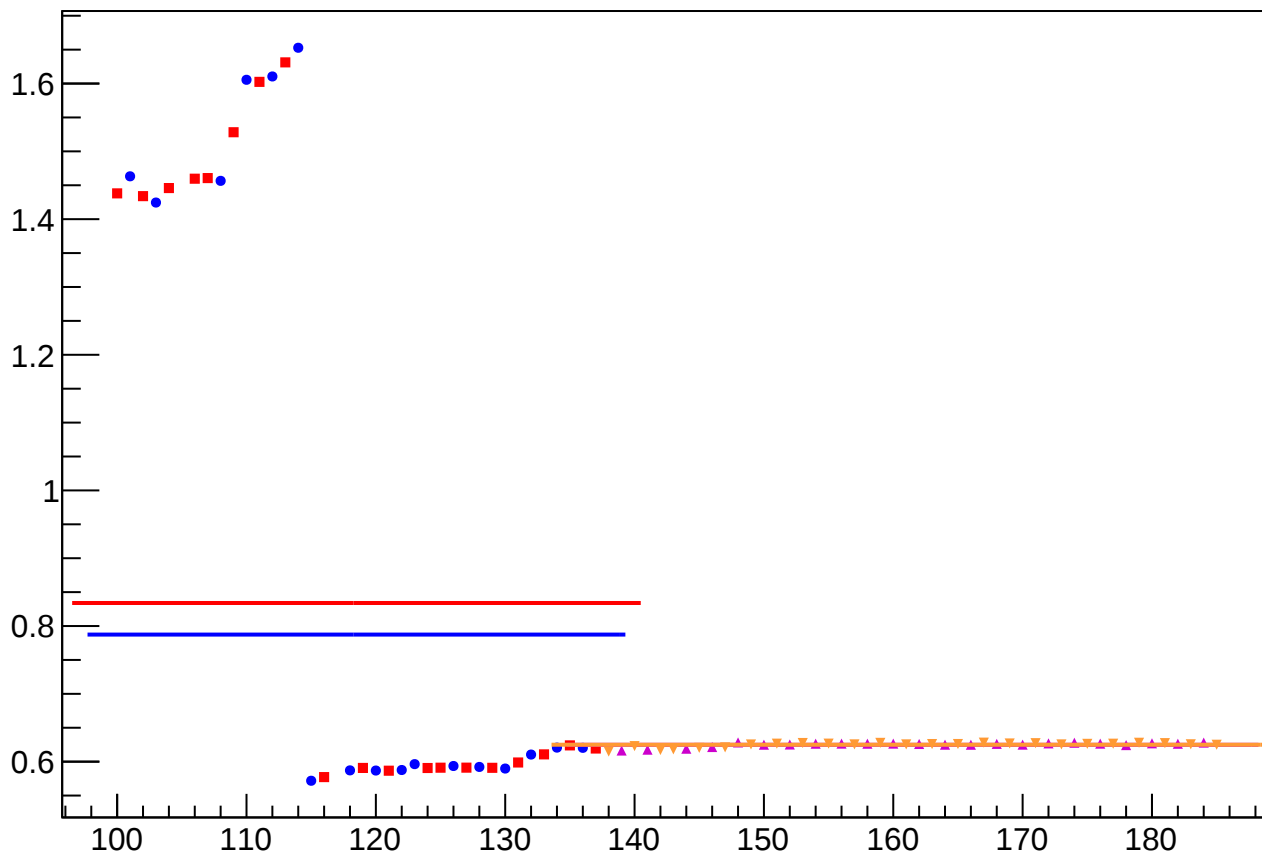
Right: 0.023+/-0.000 χ^2/NDF : 2131038.0/35

In: 0.020+/-0.000 χ^2/NDF : 1697514.5/39

Out: 0.020+/-0.000 χ^2/NDF : 1885018.7/43

All: 0.020+/-0.000 χ^2/NDF : 3583025.3/83

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.787 $\pm$ 0.000 χ^2 /NDF: 3581416919.1/16

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1387234.7/24

Right Out: 0.834 $\pm$ 0.000 χ^2 /NDF: 4150651936.4/18

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2532336.9/47

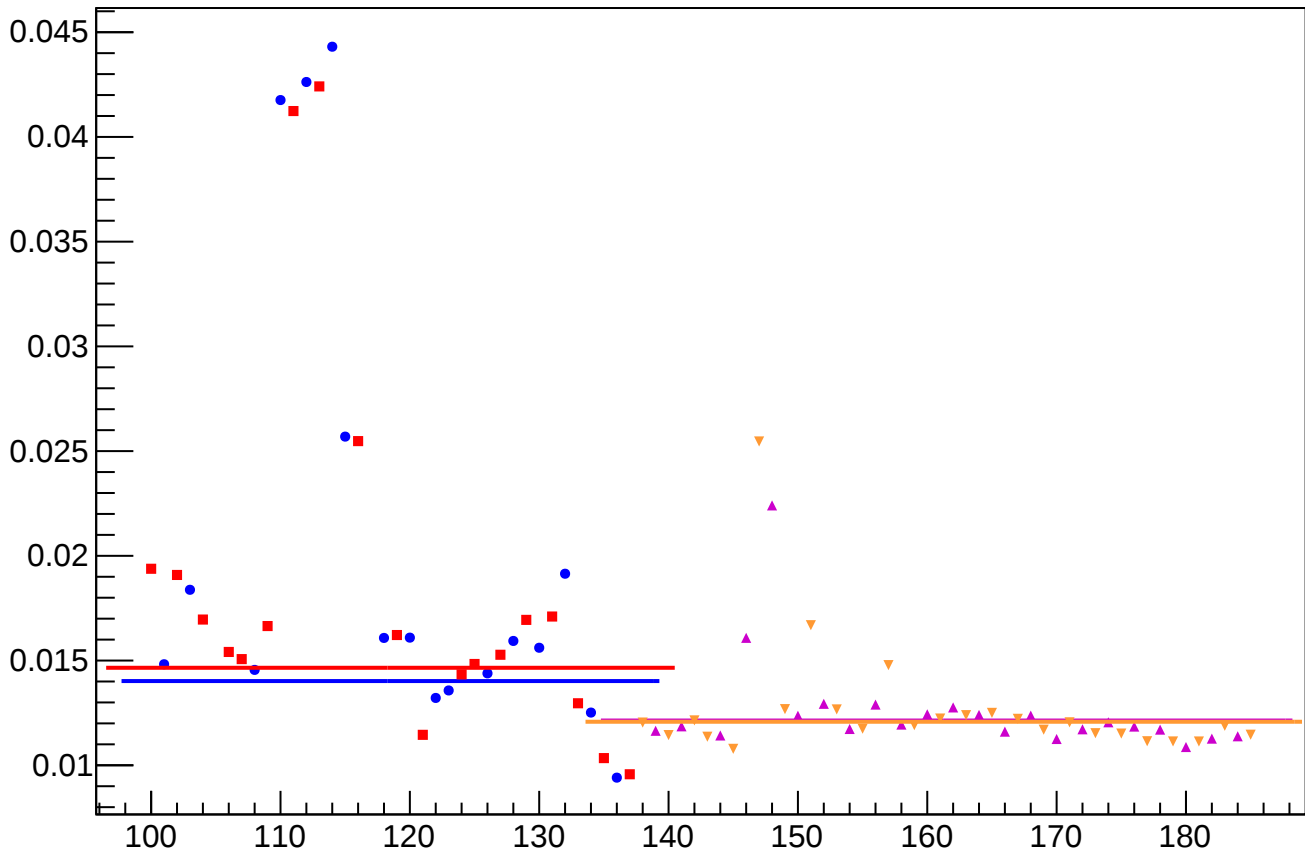
Right: 0.810 $\pm$ 0.000 χ^2 /NDF: 7762825893.7/35

In: 0.658 $\pm$ 0.000 χ^2 /NDF:4189391063.9/39

Out: 0.664 $\pm$ 0.000 χ^2 /NDF:5141370736.6/43

All: 0.661 $\pm$ 0.000 χ^2 /NDF: 9333916411.8/83

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: 656062.6/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1262071.4/18

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF: 488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1144822.8/47

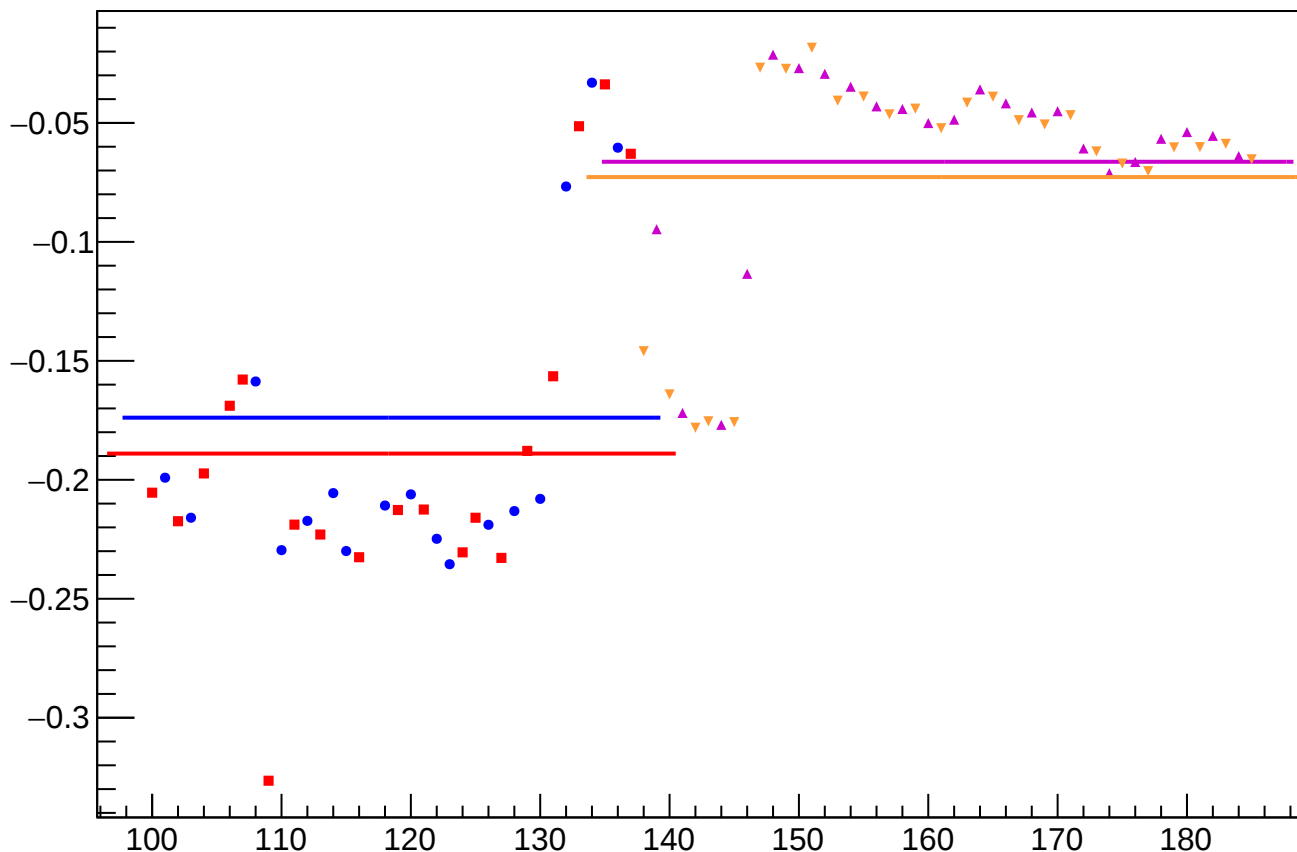
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 2673402.9/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2051353.4/39

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2218846.3/43

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 4270500.5/83

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 66778428.3/16

Left Out: -0.073+/-0.000 χ^2/NDF : 102223499.1/24

Right Out: -0.189+/-0.000 χ^2/NDF : 81975900.9/18

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 179269719.6/47

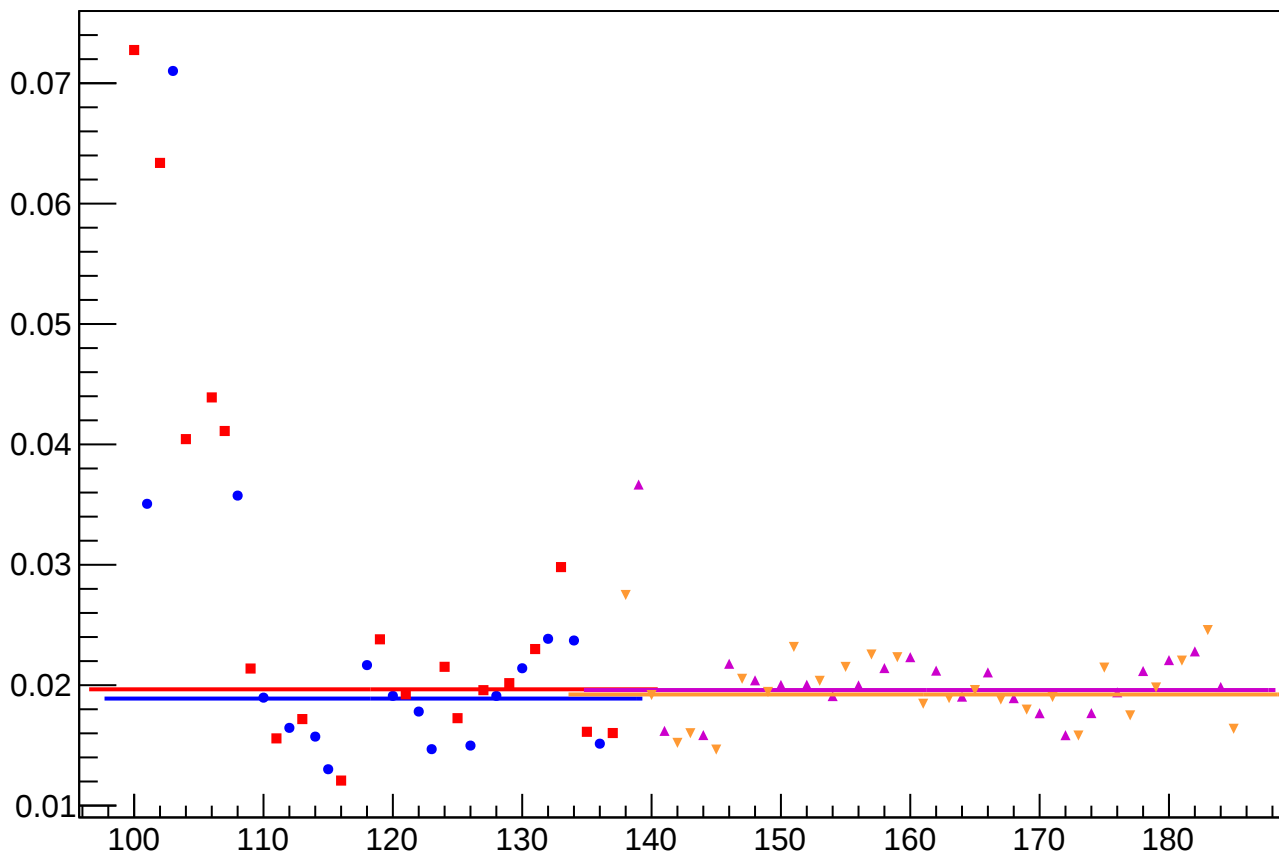
Right: -0.181+/-0.000 χ^2/NDF : 150315642.4/35

In: -0.096+/-0.000 χ^2/NDF : 260703413.6/39

Out: -0.102+/-0.000 χ^2/NDF : 320327609.8/43

All: -0.099+/-0.000 χ^2/NDF : 581914186.8/83

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 : 604979.2/24

Right Out: 0.020+/-0.000 χ^2/NDF : 1454143.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1233354.8/47

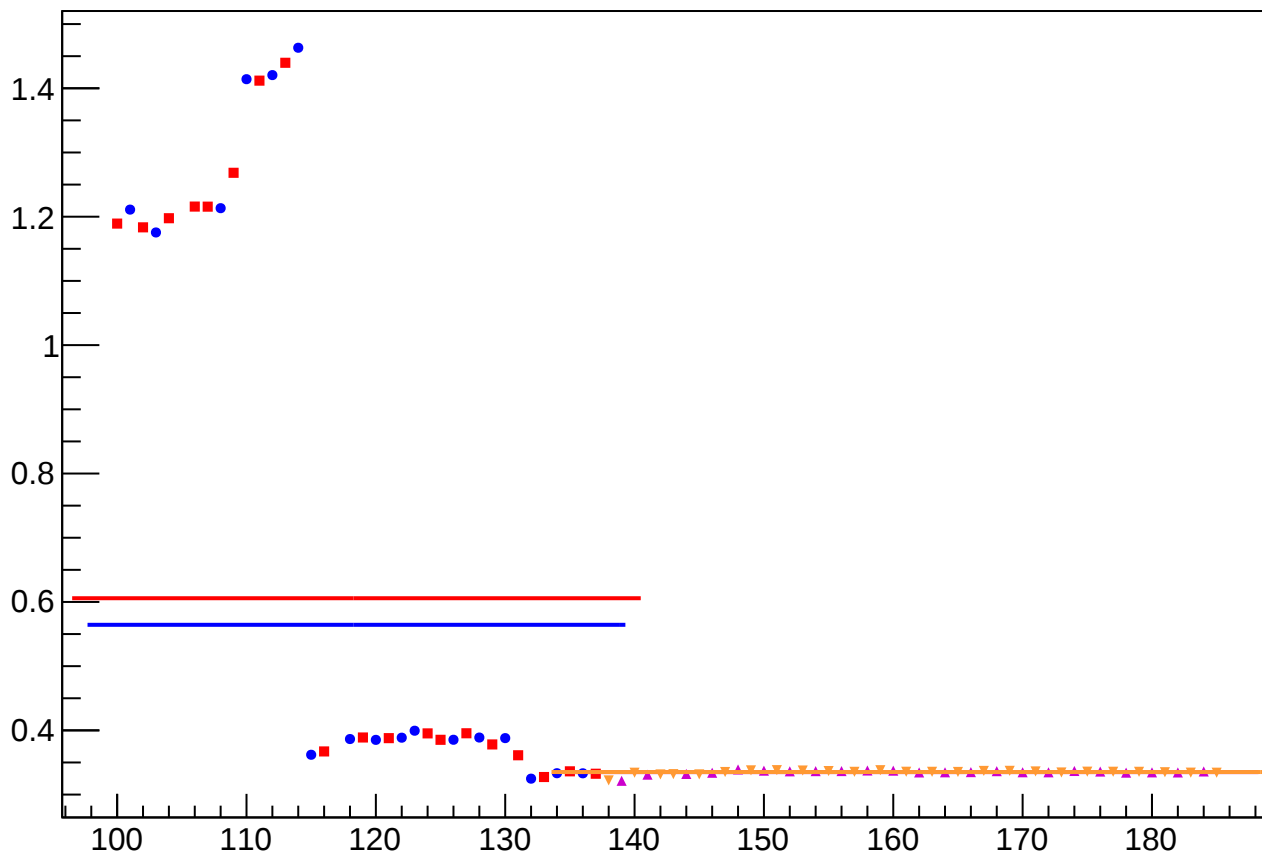
Right: 0.019+/-0.000 χ^2/NDF : 2674059.2/35

In: 0.019+/-0.000 χ^2/NDF : 1845199.0/39

Out: 0.019+/-0.000 χ^2/NDF : 2062792.4/43

All: 0.019+/-0.000 χ^2/NDF : 3908226.3/83

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.564+/-0.000 χ^2/NDF : 5040911893.3/16

Left Out: 0.335+/-0.000 χ^2/NDF : 1144360.9/24

Right Out: 0.606+/-0.000 χ^2/NDF : 5529469116.6/18

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2347256.7/47

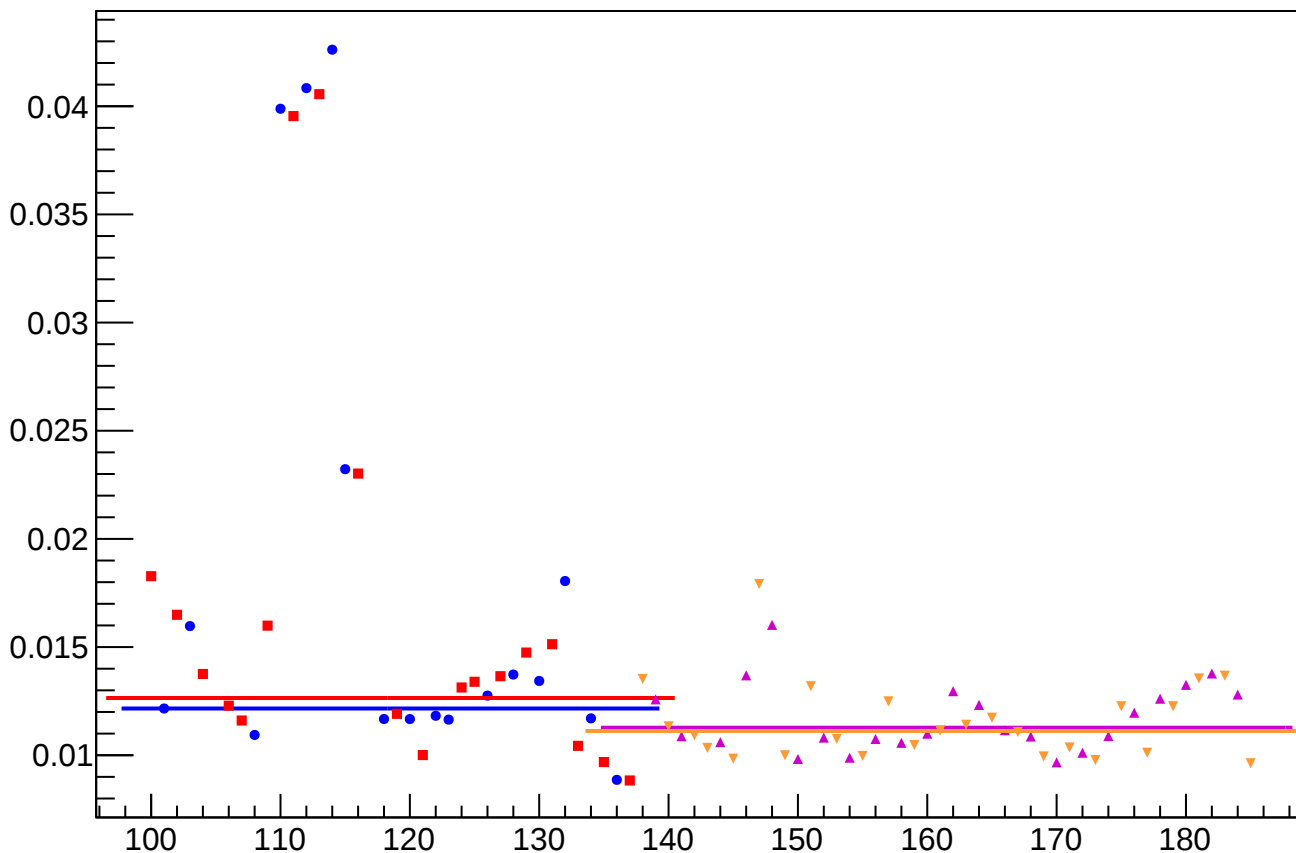
Right: 0.585+/-0.000 χ^2/NDF : 10602472583.7/35

In: 0.387+/-0.000 χ^2/NDF : 6595145855.7/39

Out: 0.391+/-0.000 χ^2/NDF : 7663169642.7/43

All: 0.389+/-0.000 χ^2/NDF : 14259747636.3/8

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 : 604152.6/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1268972.5/18

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1109700.9/47

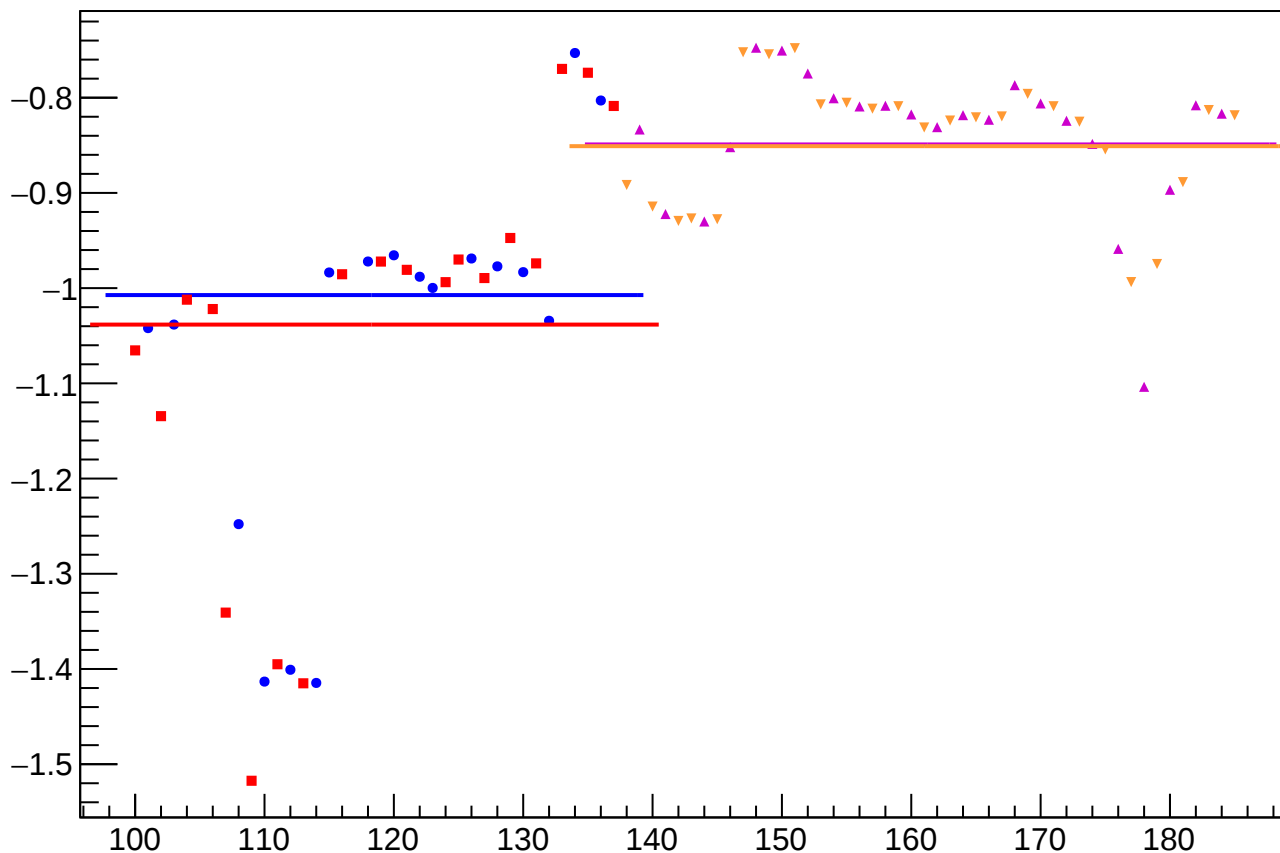
Right: 0.012+/-0.000 χ^2/NDF : 2581927.2/35

In: 0.011+/-0.000 χ^2/NDF : 1853158.2/39

Out: 0.011+/-0.000 χ^2/NDF : 2008562.9/43

All: 0.011+/-0.000 χ^2/NDF : 3861958.2/83

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.007 ± 0.000 χ^2/NDF : 393589325.7/16

Left Out: -0.851 ± 0.000 χ^2/NDF : 186300241.8/24

Right Out: -1.038 ± 0.000 χ^2/NDF : 535629570.0/18

Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 ± 0.000 χ^2/NDF : 442757303.9/47

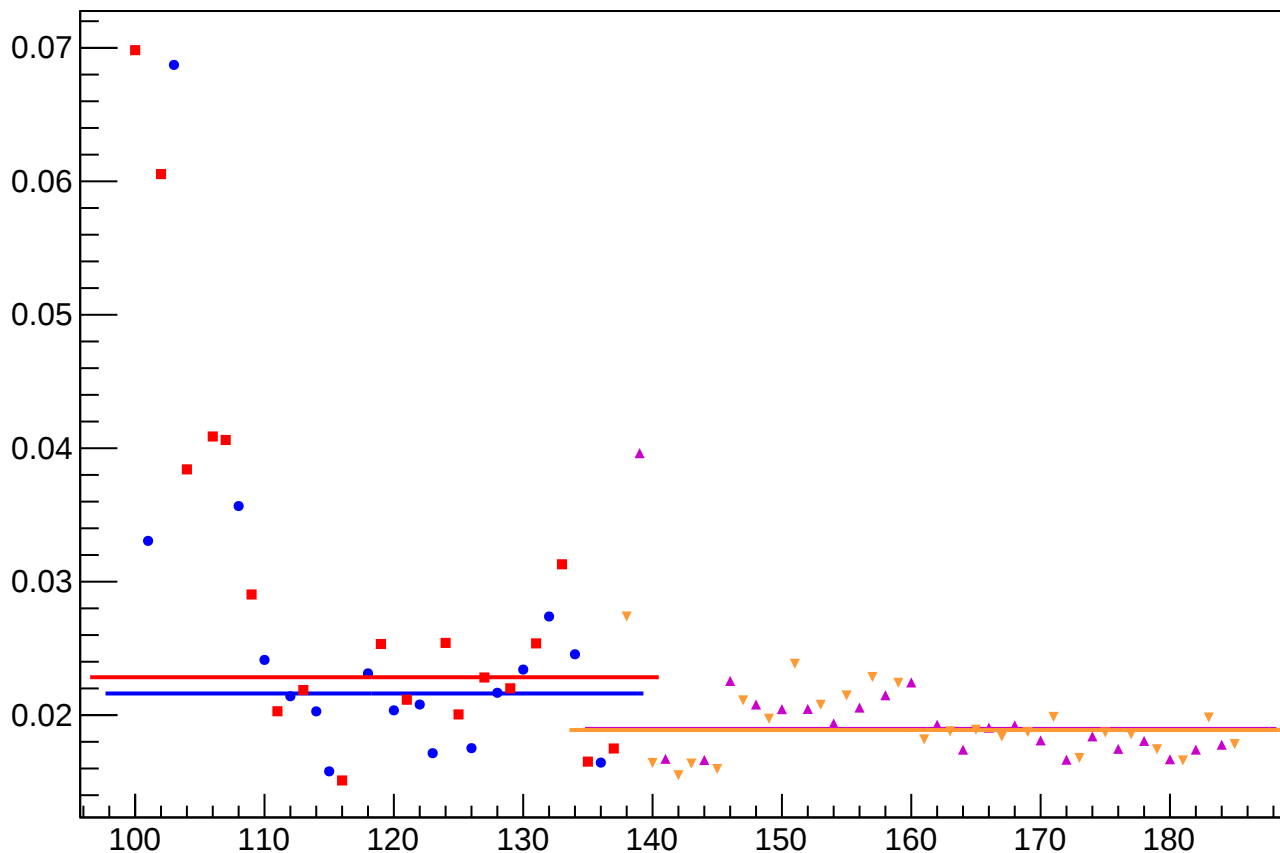
Right: -1.022 ± 0.000 χ^2/NDF : 934274584.5/35

In: -0.884 ± 0.000 χ^2/NDF : 862747818.3/39

Out: -0.888 ± 0.000 χ^2/NDF : 1008785320.4/43

All: -0.886 ± 0.000 χ^2/NDF : 1871965511.2/8

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 : 468222.4/24

Right Out: 0.023+/-0.000 χ^2/NDF : 1150914.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1083677.6/47

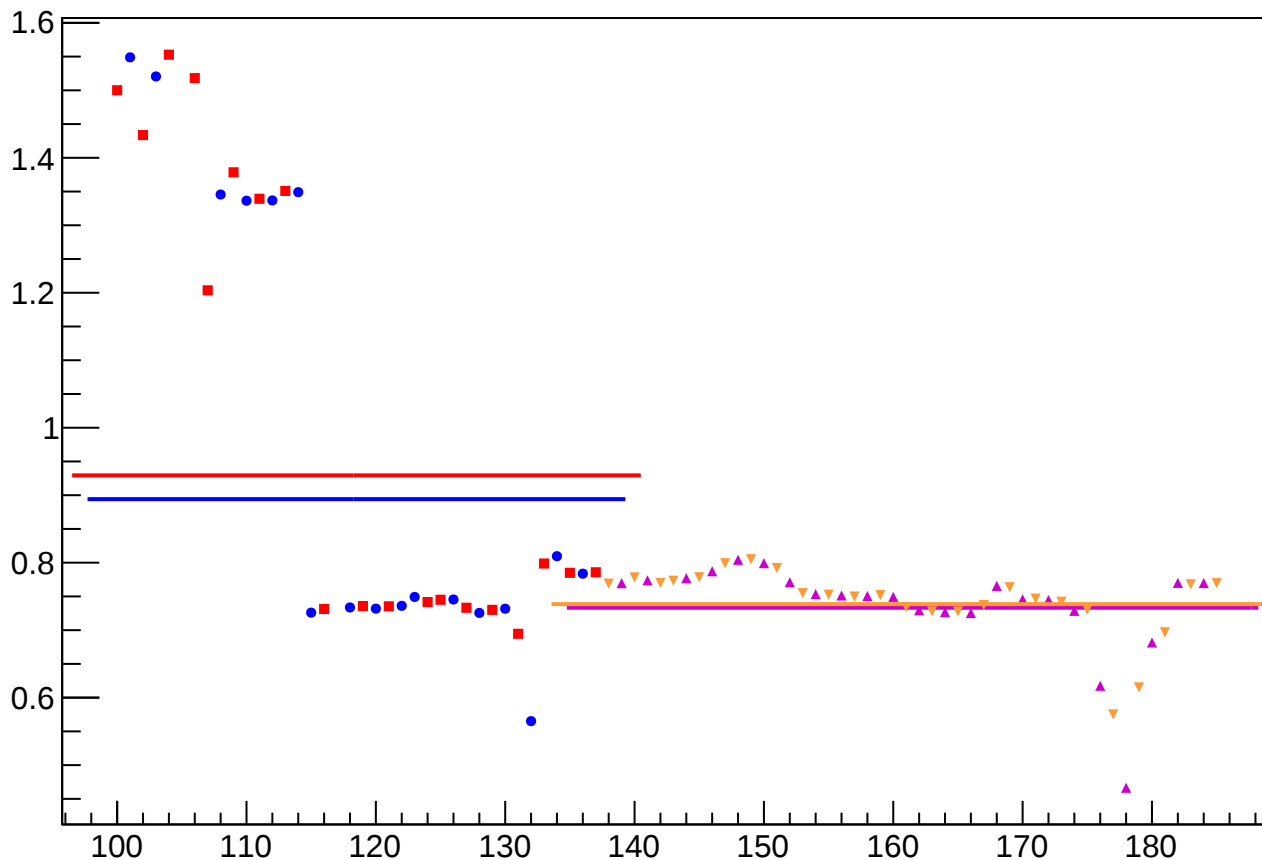
Right: 0.022+/-0.000 χ^2/NDF : 2151098.1/35

In: 0.020+/-0.000 χ^2/NDF : 1719545.9/39

Out: 0.020+/-0.000 χ^2/NDF : 1874773.6/43

All: 0.020+/-0.000 χ^2/NDF : 3594992.5/83

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.894+/-0.000 χ^2/NDF : 2399022212.9/16

Left Out: 0.739+/-0.000 χ^2/NDF : 332000123.5/24

Right Out: 0.929+/-0.000 χ^2/NDF : 2422023767.8/18

Left In: 0.733+/-0.000 χ^2/NDF : 569611347.7/22

Left: 0.736+/-0.000 χ^2/NDF : 903274514.3/47

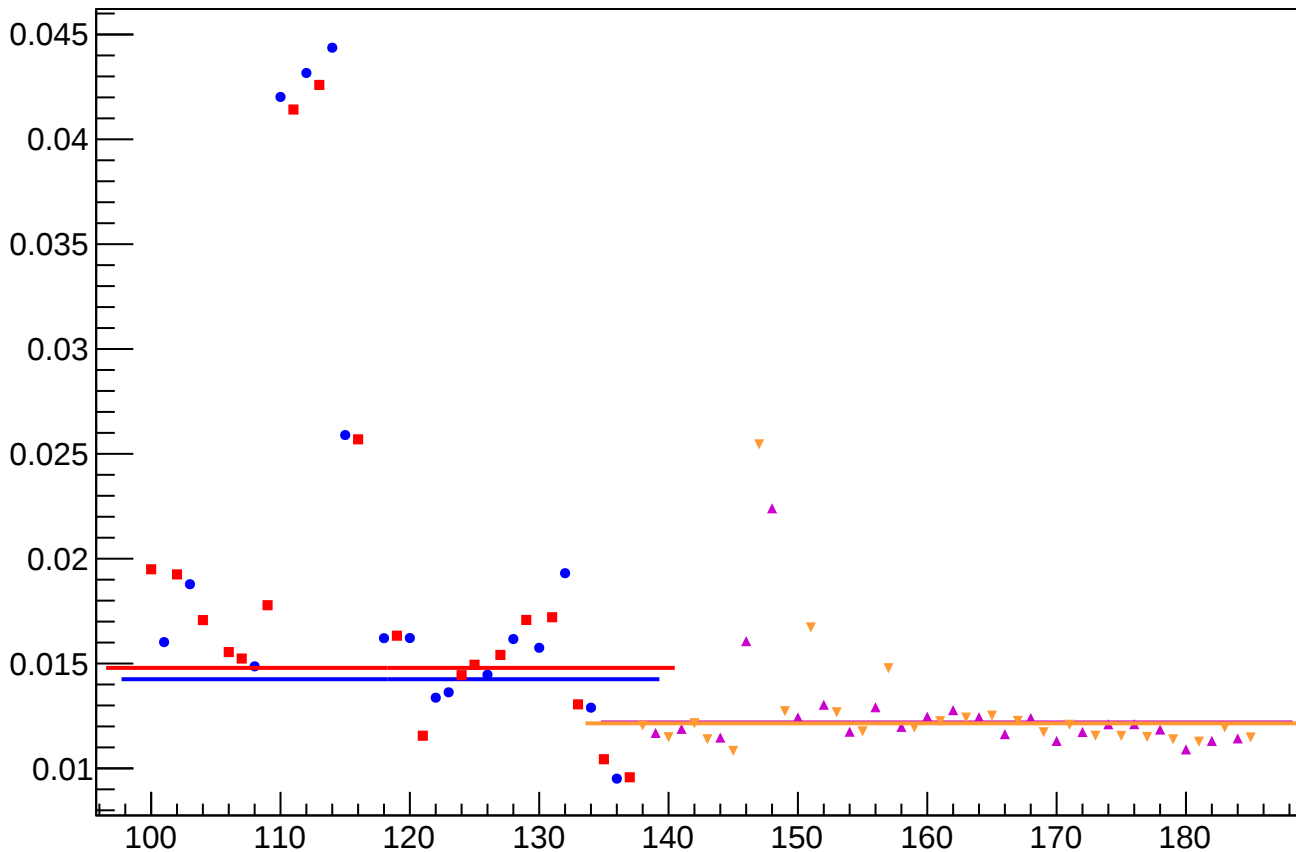
Right: 0.912+/-0.000 χ^2/NDF : 4838135937.4/35

In: 0.765+/-0.000 χ^2/NDF : 3544269880.2/39

Out: 0.774+/-0.000 χ^2/NDF : 3561452389.6/43

All: 0.770+/-0.000 χ^2/NDF : 7111765406.1/83

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 : 636374.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1271820.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1118421.0/47

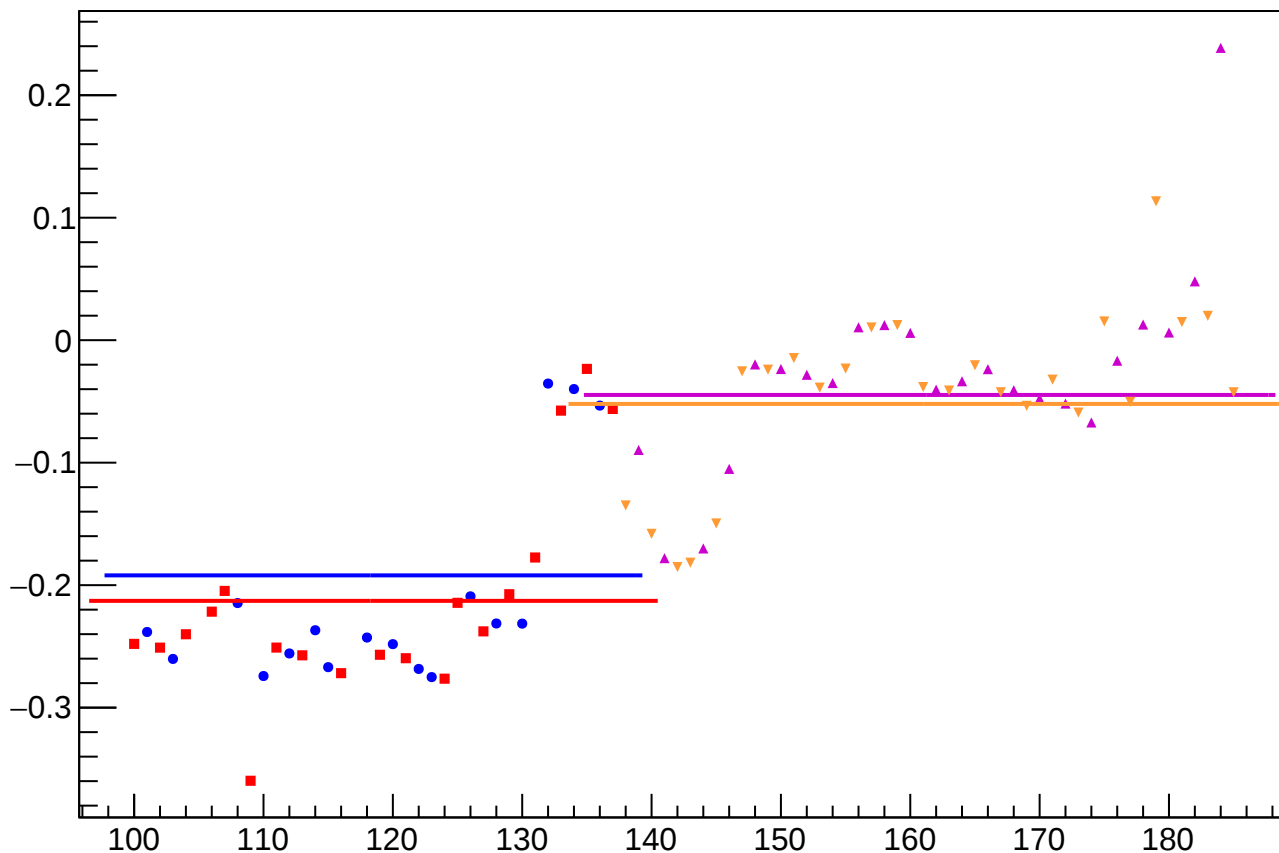
Right: 0.015+/-0.000 χ^2/NDF : 2689819.1/35

In: 0.013+/-0.000 χ^2/NDF : 2080559.5/39

Out: 0.013+/-0.000 χ^2/NDF : 2218380.7/43

All: 0.013+/-0.000 χ^2/NDF : 4299208.0/83

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192 ± 0.000 $\chi^2/\text{NDF}: 106200458.9/16$

Left Out: -0.052 ± 0.000 $\chi^2/\text{NDF}: 159062221.6/24$

Right Out: -0.213 ± 0.000 $\chi^2/\text{NDF}: 110522593.6/18$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 287286536.2/47$

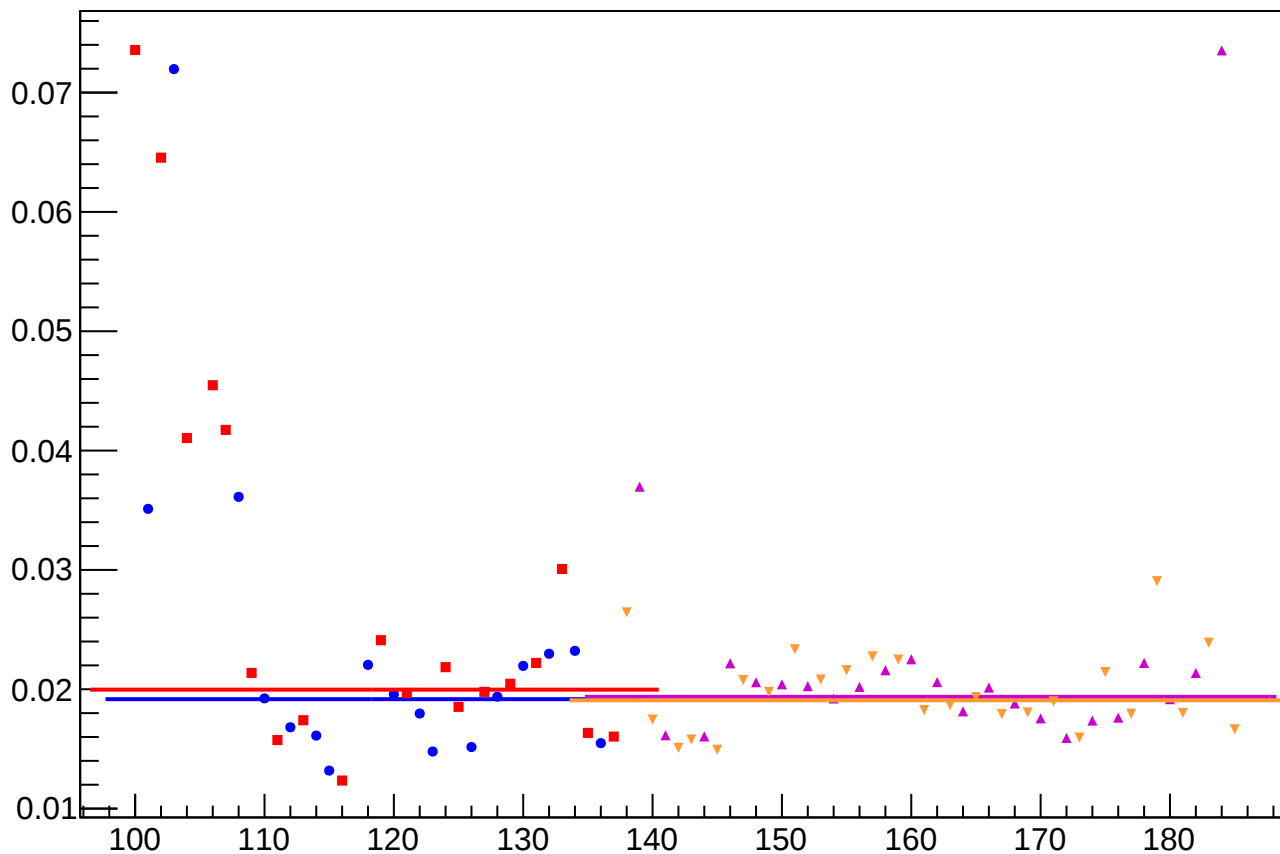
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 219599085.5/35$

In: -0.084 ± 0.000 $\chi^2/\text{NDF}: 449362341.1/39$

Out: -0.091 ± 0.000 $\chi^2/\text{NDF}: 522719997.6/43$

All: -0.088 ± 0.000 $\chi^2/\text{NDF}: 973356187.6/83$

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 : 666331.3/24

Right Out: 0.020+/-0.000 χ^2/NDF : 1445067.6/18

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1527801.0/47

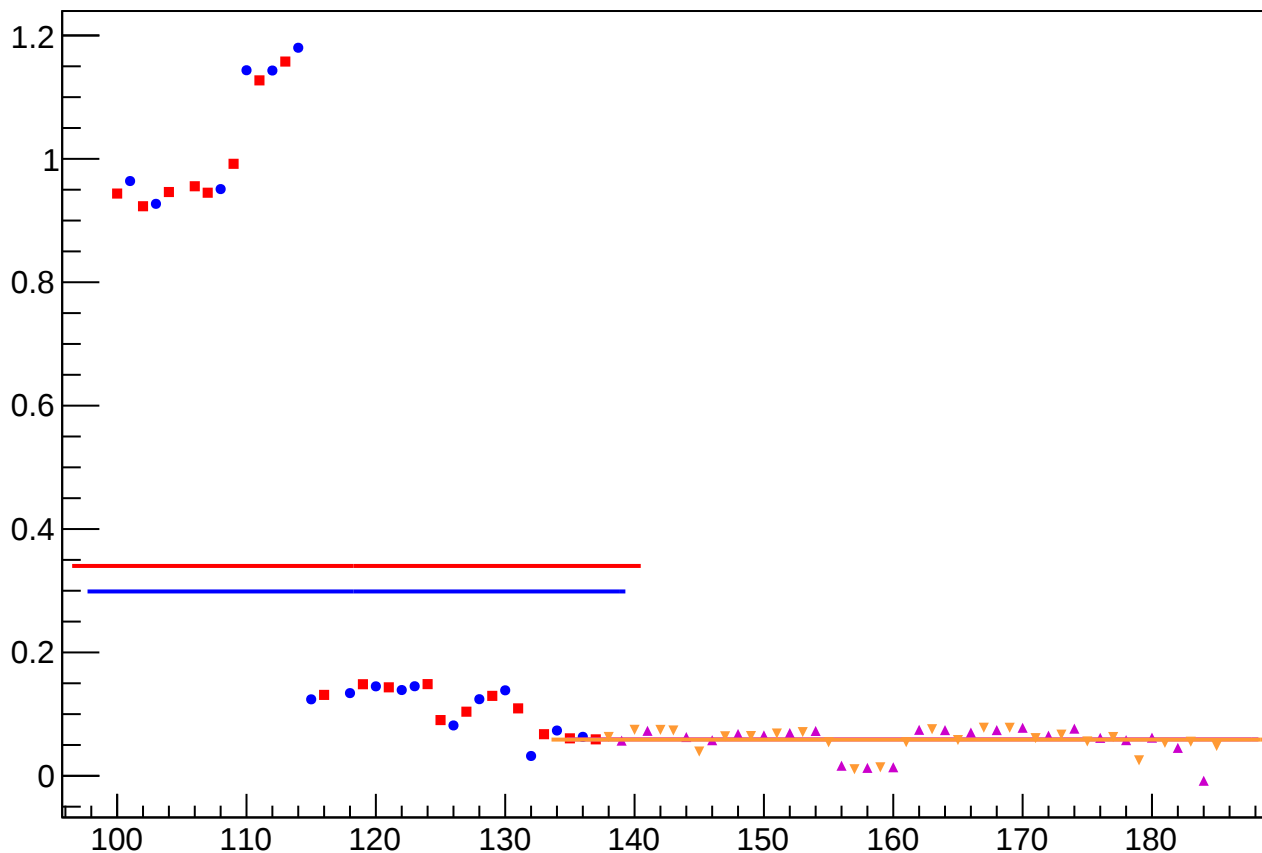
Right: 0.020+/-0.000 χ^2/NDF : 2636287.3/35

In: 0.019+/-0.000 χ^2/NDF : 2041736.4/39

Out: 0.019+/-0.000 χ^2/NDF : 2127017.3/43

All: 0.019+/-0.000 χ^2/NDF : 4168773.2/83

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.299 $\pm$ 0.000 χ^2 /NDF: 5180137730.5/16

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46495868.6/24

Right Out: 0.340 $\pm$ 0.000 χ^2 /NDF: 5473541358.4/18

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105023813.4/47

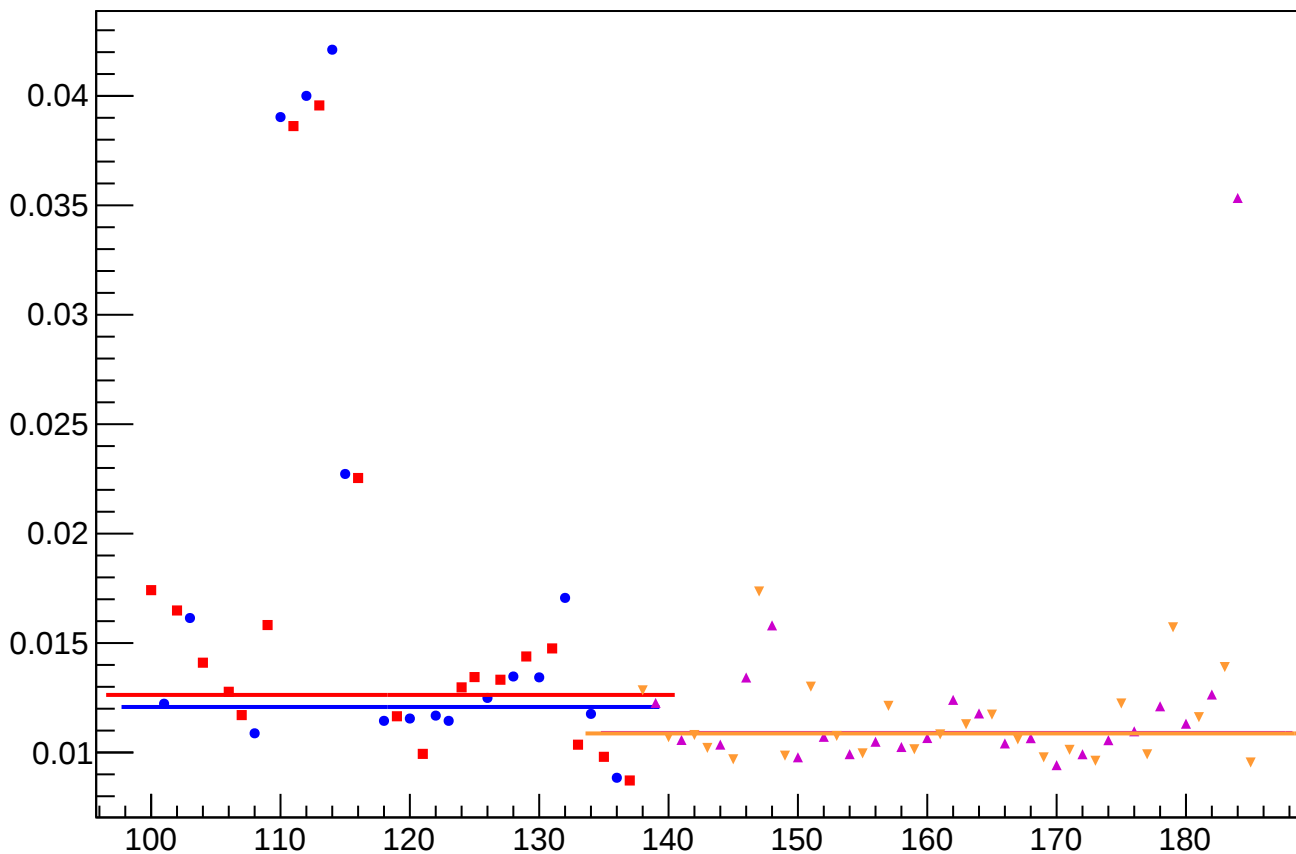
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 10685960138.1/35

In: 0.112 $\pm$ 0.000 χ^2 /NDF: 6972307345.7/39

Out: 0.116 $\pm$ 0.000 χ^2 /NDF: 7839242308.3/43

All: 0.114 $\pm$ 0.000 χ^2 /NDF: 14813046613.8/86

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1276713.5/16

Left Out: 0.011+/-0.000 χ^2/NDF : 602993.6/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1235880.5/18

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1133138.4/47

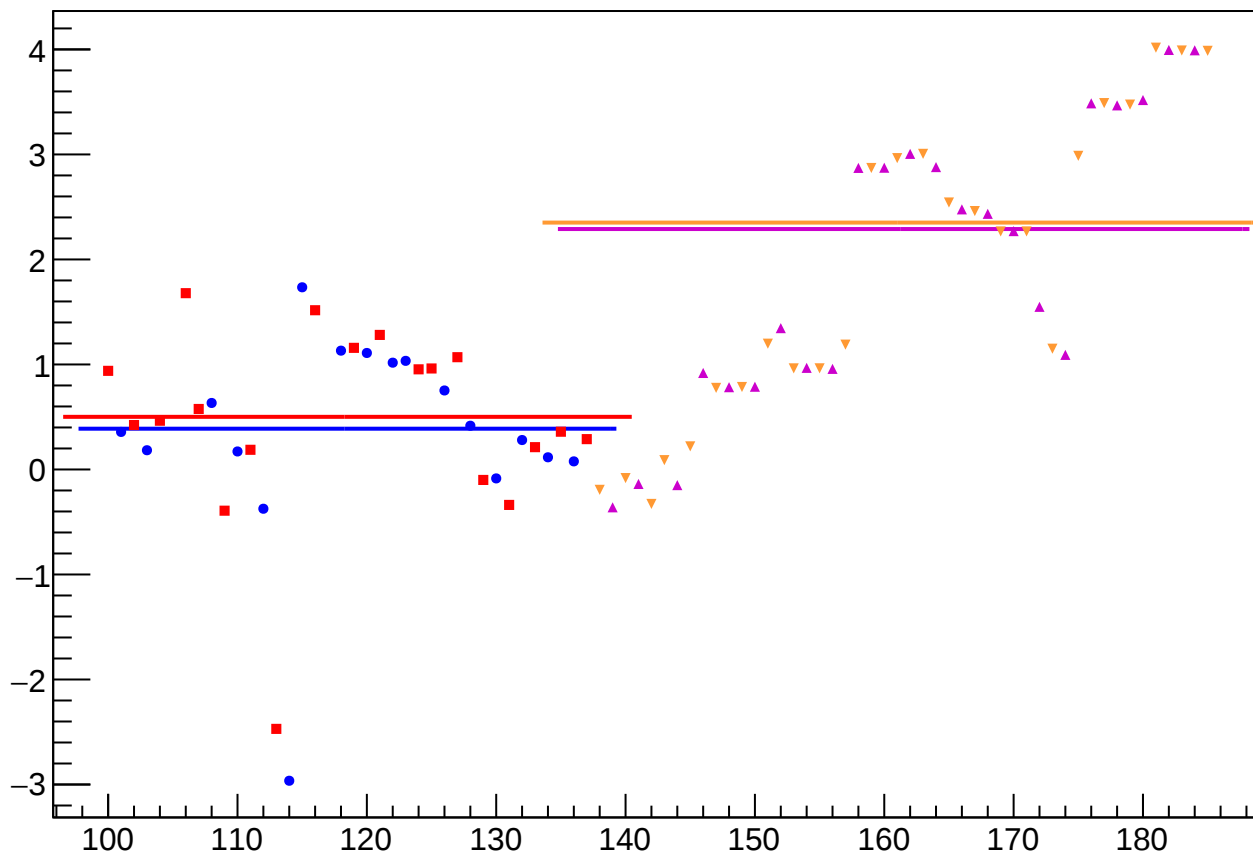
Right: 0.012+/-0.000 χ^2/NDF : 2524057.1/35

In: 0.011+/-0.000 χ^2/NDF : 1891827.0/39

Out: 0.011+/-0.000 χ^2/NDF : 2020285.6/43

All: 0.011+/-0.000 χ^2/NDF : 3913116.1/83

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.388+/-0.000

χ^2/NDF : 245257258.4/16

Left: 2.320+/-0.000 χ^2/NDF : 123694008597.3/47

Right: 0.440+/-0.000 χ^2/NDF : 1238568445.6/35

Left Out: 2.351+/-0.000

χ^2/NDF : 62721475143.3/24

In: 2.228+/-0.000 χ^2/NDF : 67232442270.7/39

Right Out: 0.501+/-0.000

χ^2/NDF : 983034937.0/18

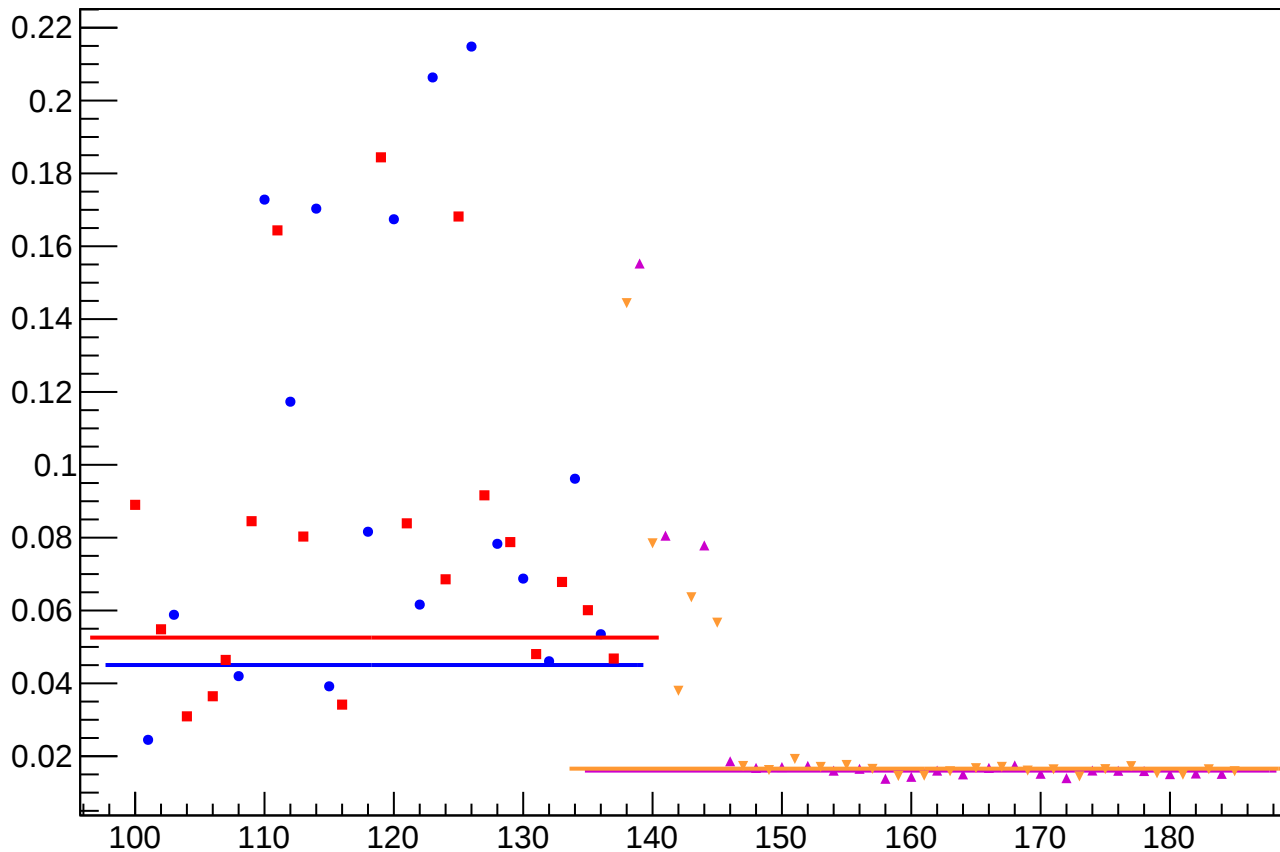
Out: 2.298+/-0.000 χ^2/NDF : 68659213297.6/43

Left In: 2.290+/-0.000

χ^2/NDF : 60875537647.3/22

All: 2.263+/-0.000 χ^2/NDF : 136024399252.4

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2830669.1/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2810614.1/24

Right Out: 0.053+/-0.000 χ^2/NDF : 2177690.7/18

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5219736.3/47

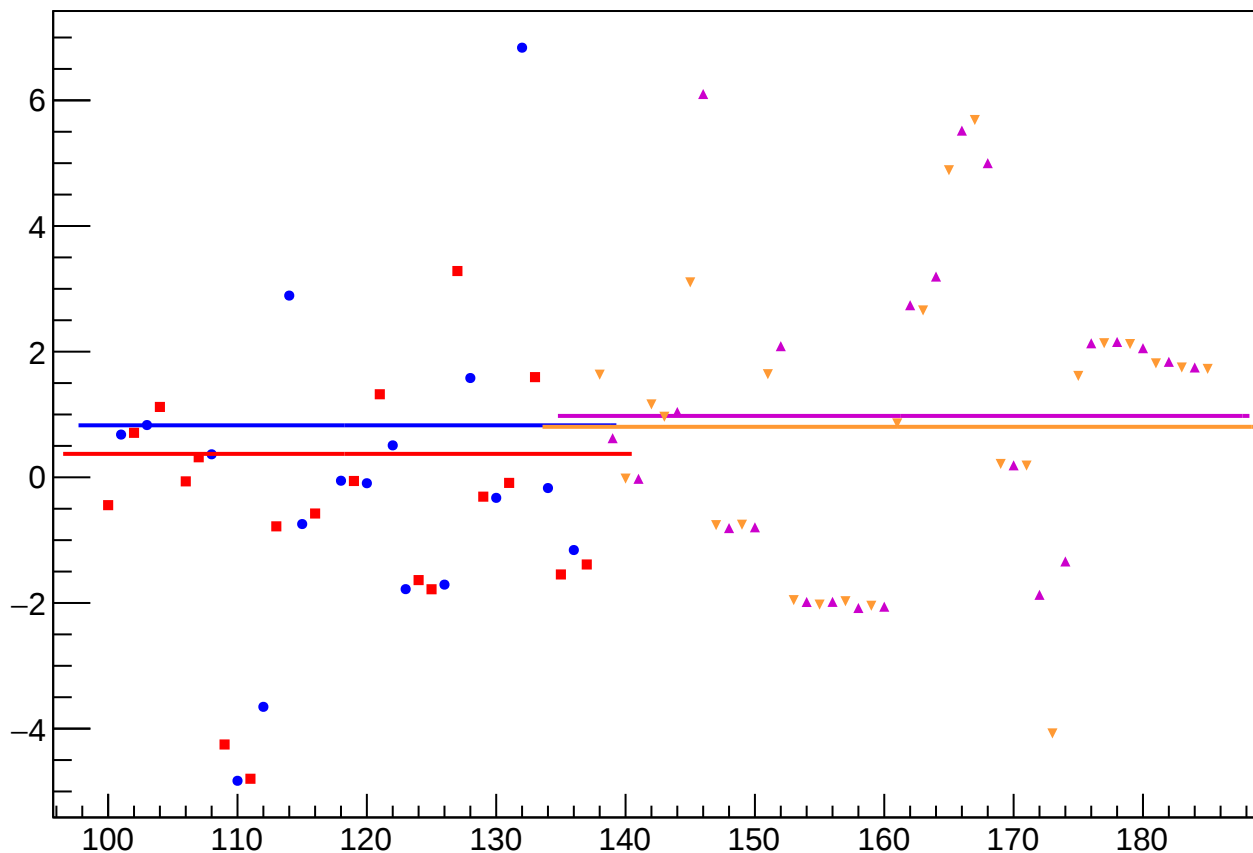
Right: 0.049+/-0.000 χ^2/NDF : 5099571.7/35

In: 0.017+/-0.000 χ^2/NDF : 8066400.2/39

Out: 0.018+/-0.000 χ^2/NDF : 8737746.9/43

All: 0.017+/-0.000 χ^2/NDF : 16824191.8/83

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.828+/-0.000

χ^2/NDF : 10934615588.5/16

Left: 0.891+/-0.000

χ^2/NDF : 1076919325499.4/47

Left Out: 0.804+/-0.000

χ^2/NDF : 507431868387.9/24

Right: 0.614+/-0.000

χ^2/NDF : 16284898380.7/35

Right Out: 0.373+/-0.000

χ^2/NDF : 4968052358.8/18

In: 0.971+/-0.000

χ^2/NDF : 579228673937.2/39

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

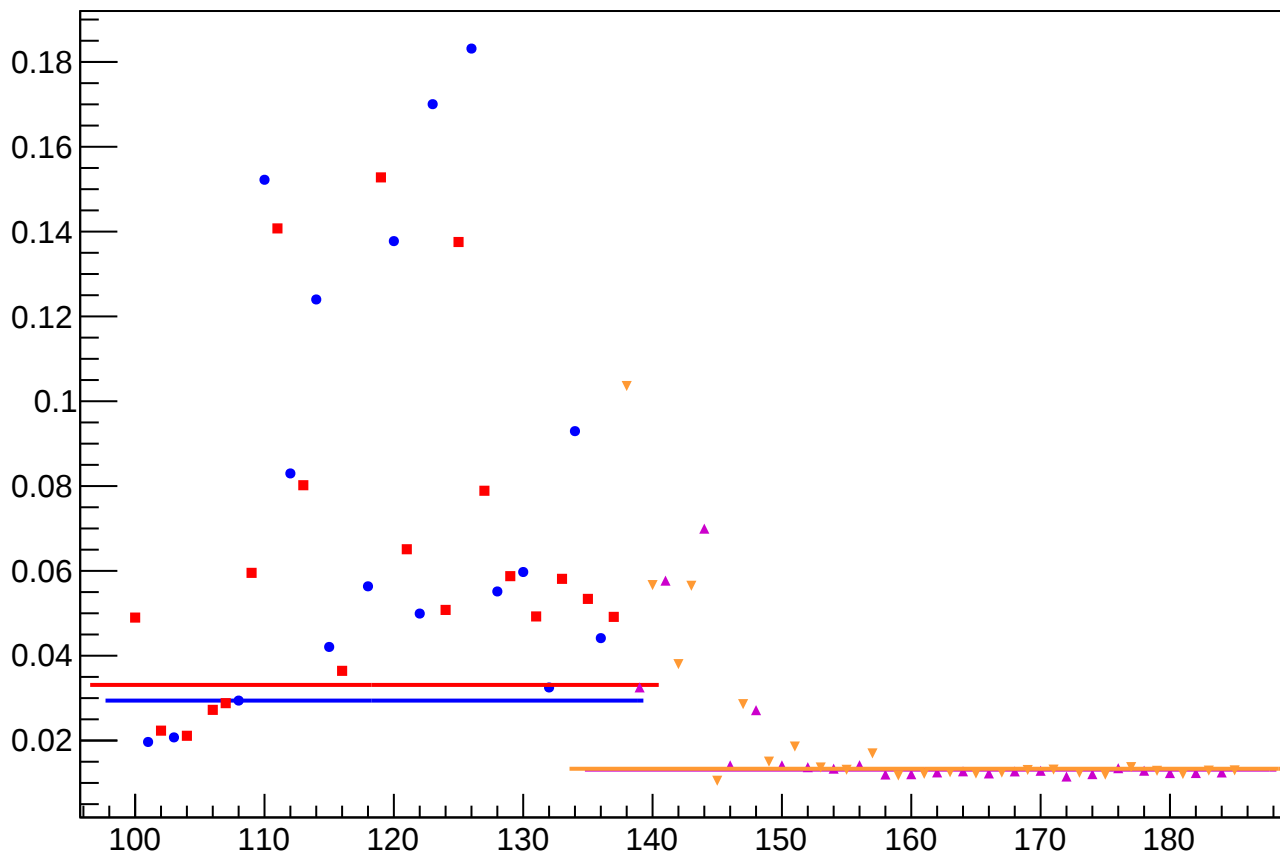
Out: 0.787+/-0.000

χ^2/NDF : 513022751300.6/43

All: 0.879+/-0.000

χ^2/NDF : 1093750891433.

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 :2916501.5/24

Right Out: 0.033+/-0.000 χ^2/NDF : 3078516.1/18

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4866851.9/47

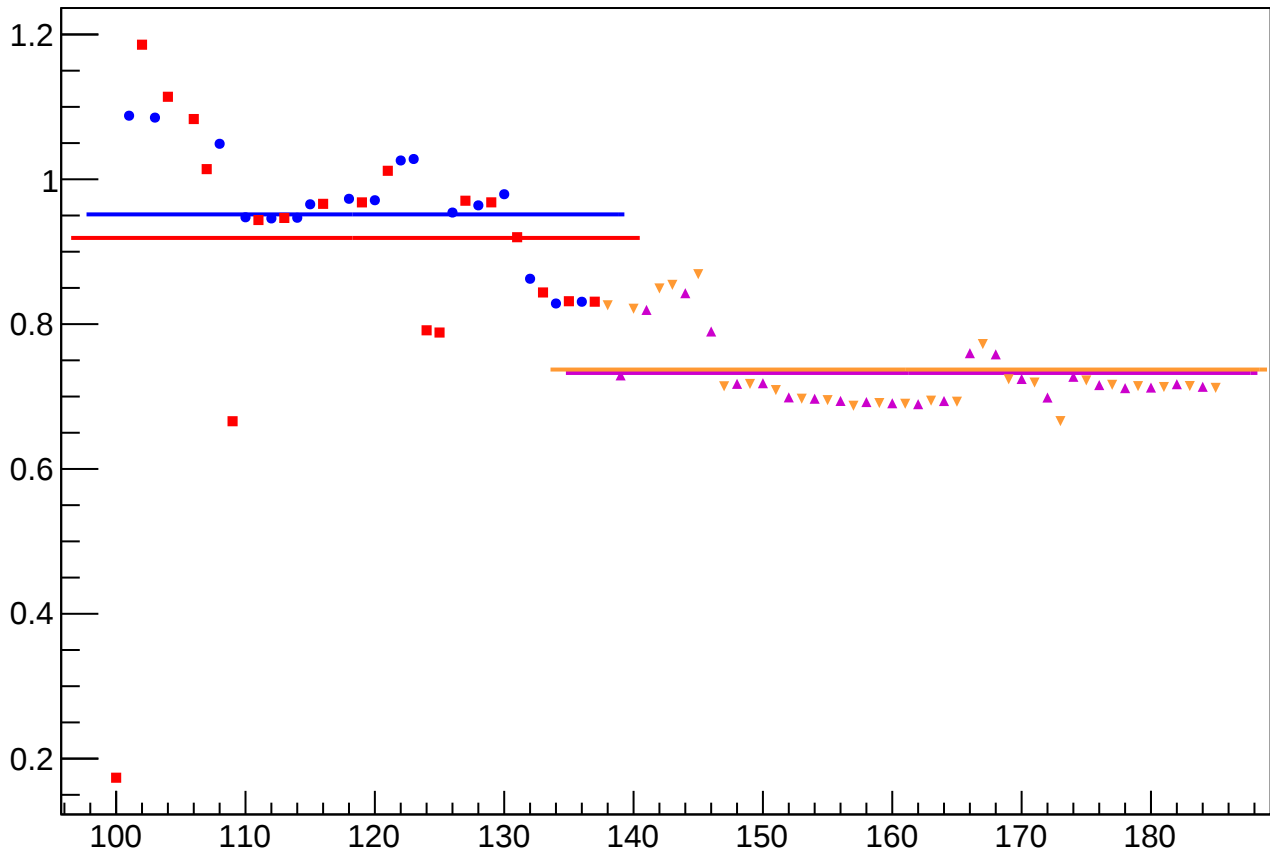
Right: 0.031+/-0.000 χ^2/NDF : 6163407.5/35

In: 0.014+/-0.000 χ^2/NDF :6973595.1/39

Out: 0.014+/-0.000 χ^2/NDF :8619459.5/43

All: 0.014+/-0.000 χ^2/NDF : 15599634.4/83

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.952 ± 0.000 χ^2/NDF : 173959453.0/16

Left Out: 0.737 ± 0.000 χ^2/NDF : 299049759.7/24

Right Out: 0.919 ± 0.000 χ^2/NDF : 374715264.1/18

Left In: 0.733 ± 0.000 χ^2/NDF : 170102394.7/22

Left: 0.735 ± 0.000 χ^2/NDF : 470071116.9/47

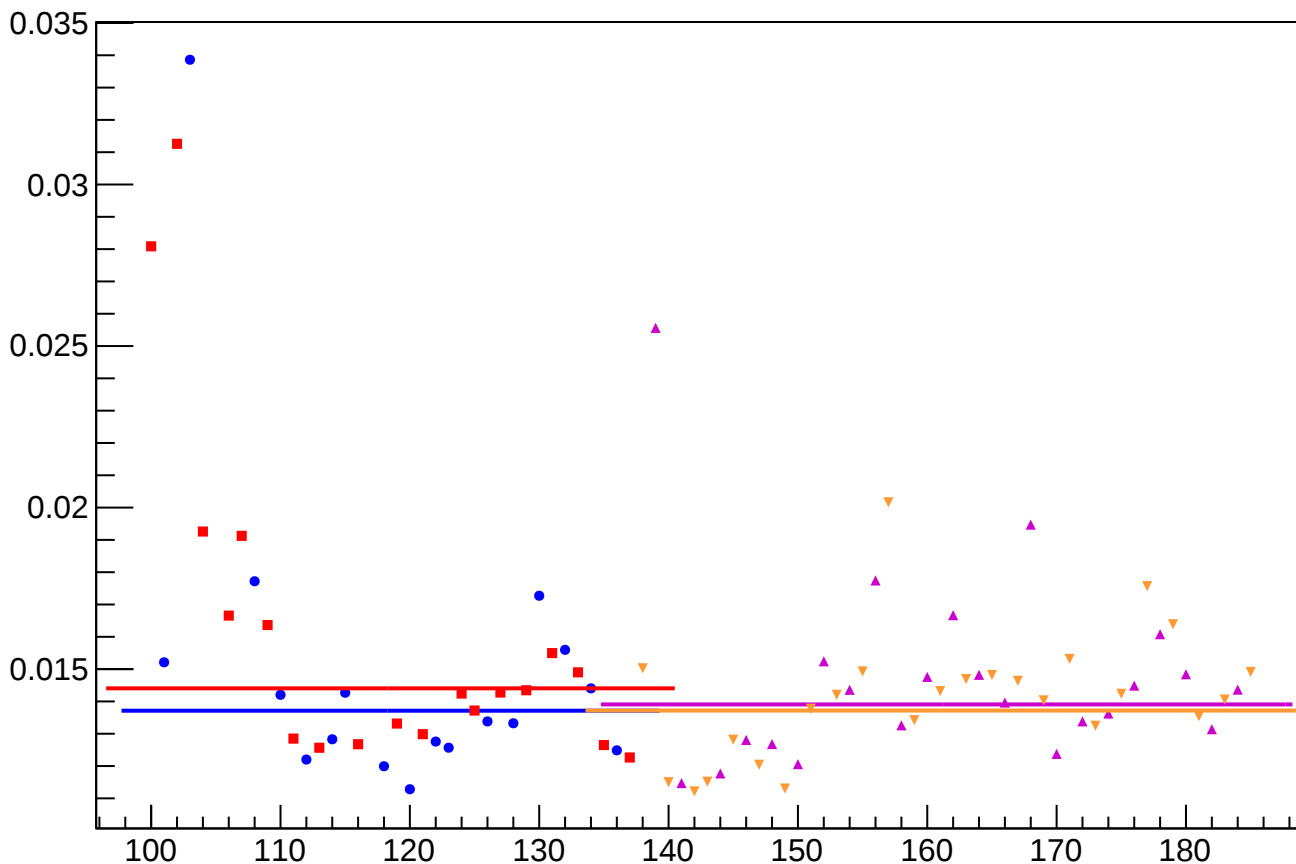
Right: 0.936 ± 0.000 χ^2/NDF : 564529204.5/35

In: 0.794 ± 0.000 χ^2/NDF : 1410406192.6/39

Out: 0.784 ± 0.000 χ^2/NDF : 1393278132.6/43

All: 0.788 ± 0.000 χ^2/NDF : 2809269814.7/83

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 : 515223.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 502019.0/18

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1286369.3/47

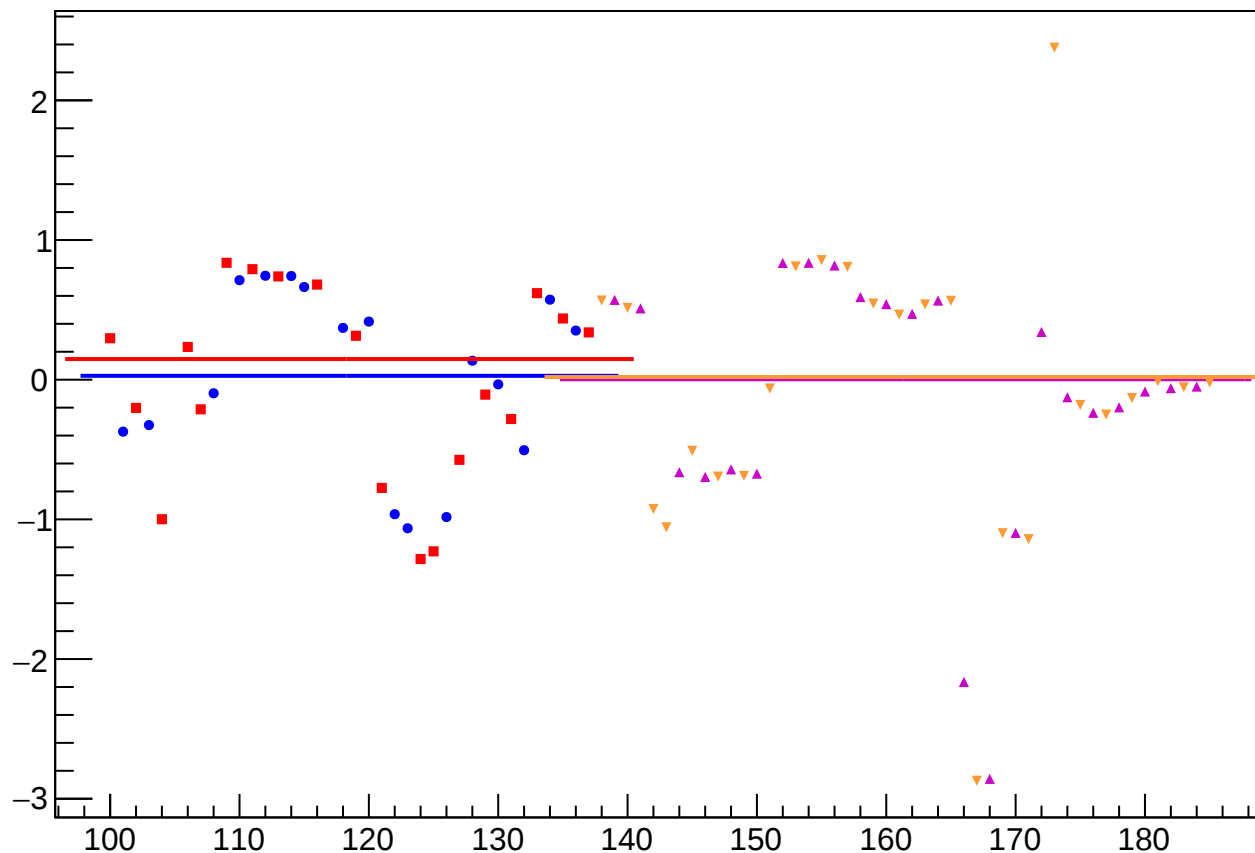
Right: 0.014+/-0.000 χ^2/NDF : 1062609.3/35

In: 0.014+/-0.000 χ^2/NDF : 1316062.2/39

Out: 0.014+/-0.000 χ^2/NDF : 1037852.9/43

All: 0.014+/-0.000 χ^2/NDF : 2354088.9/83

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6330660019.5/16

Left Out: 0.019+/-0.000 χ^2/NDF : 95616144866.7/24

Right Out: 0.148+/-0.000 χ^2/NDF : 12786884425.3/18

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.011+/-0.000 χ^2/NDF : 174456085807.2/47

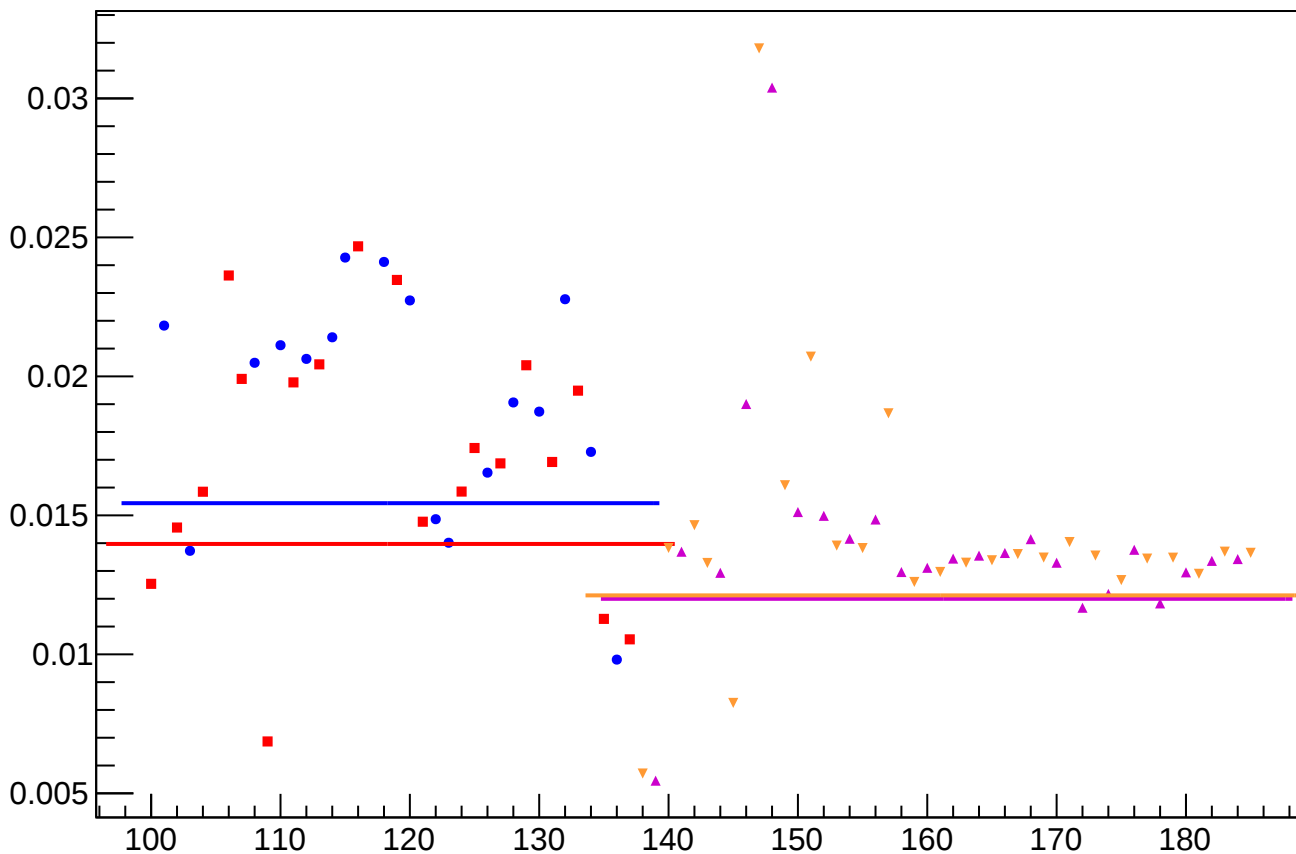
Right: 0.094+/-0.000 χ^2/NDF : 19304525914.6/35

In: 0.008+/-0.000 χ^2/NDF : 85168863588.3/39

Out: 0.046+/-0.000 χ^2/NDF : 108779267747.4/43

All: 0.027+/-0.000 χ^2/NDF : 194045296069.1

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 : 3115695.5/24

Right Out: 0.014+/-0.000 χ^2/NDF : 1556431.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6120822.2/47

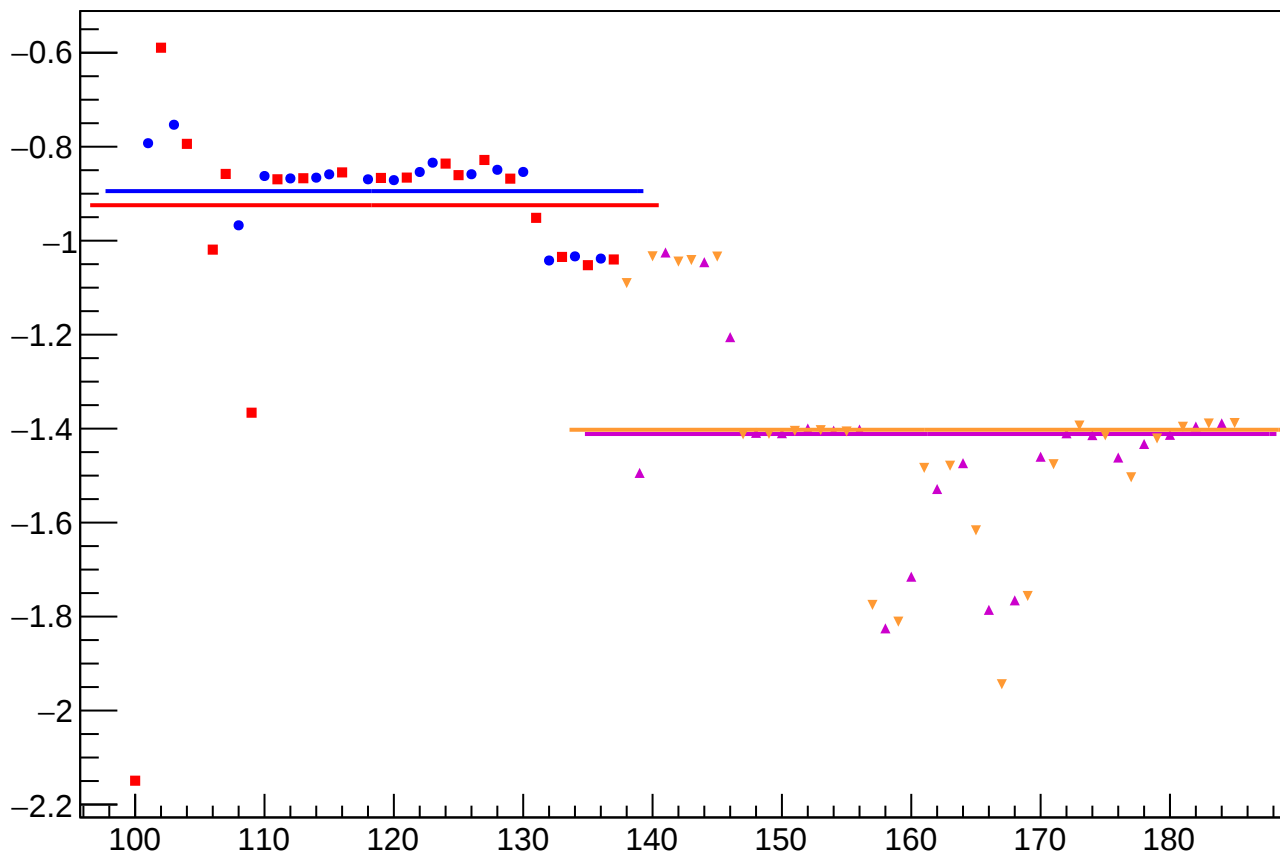
Right: 0.015+/-0.000 χ^2/NDF : 2772133.5/35

In: 0.013+/-0.000 χ^2/NDF : 4619946.0/39

Out: 0.013+/-0.000 χ^2/NDF : 4827127.5/43

All: 0.013+/-0.000 χ^2/NDF : 9449111.5/83

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.895+/-0.000 χ^2/NDF : 37736129.8/16

Left Out: -1.402+/-0.000 χ^2/NDF : 721864487.2/24

Right Out: -0.925+/-0.000 χ^2/NDF : 128456555.8/18

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.407+/-0.000 χ^2/NDF : 1234920871.3/47

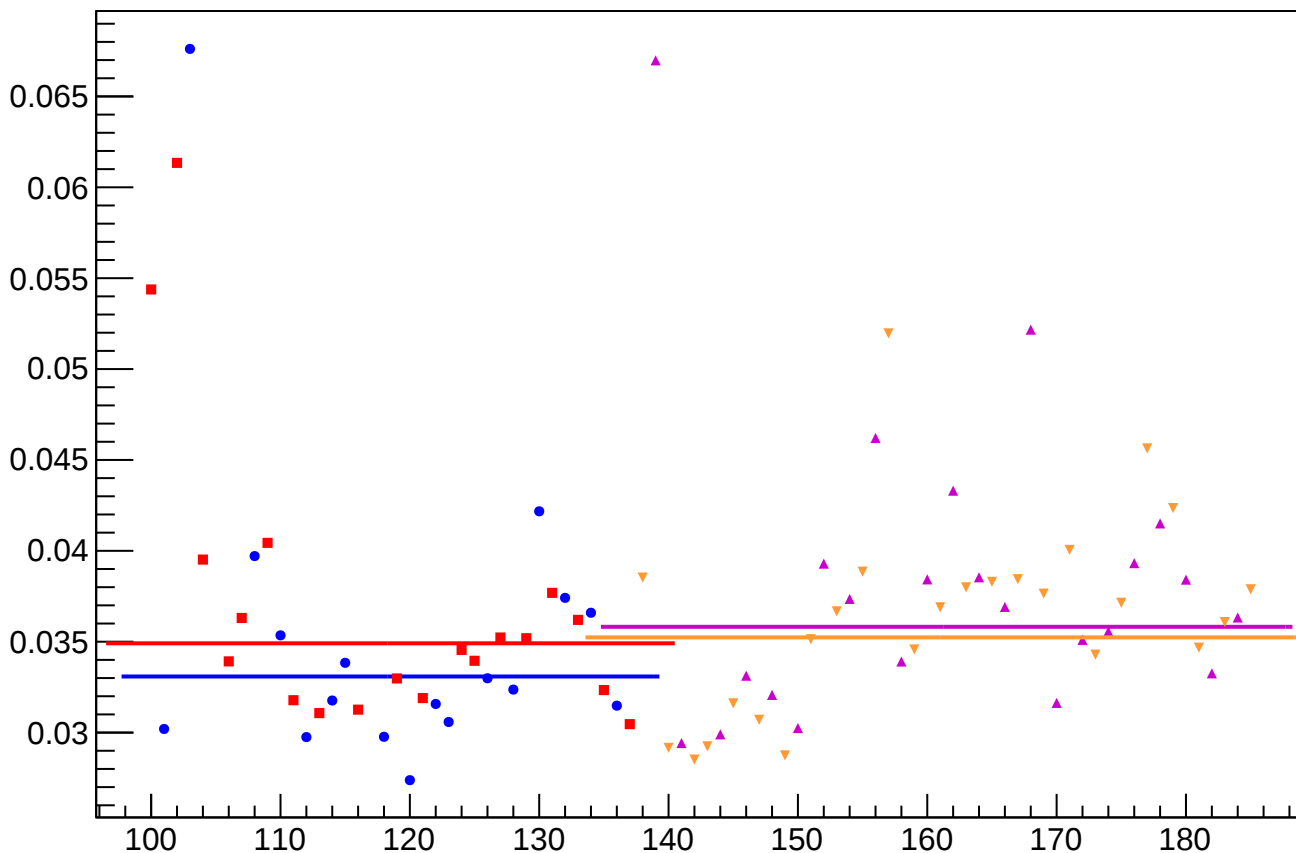
Right: -0.909+/-0.000 χ^2/NDF : 168526057.0/35

In: -1.251+/-0.000 χ^2/NDF : 1536059353.9/39

Out: -1.268+/-0.000 χ^2/NDF : 1675822030.4/43

All: -1.260+/-0.000 χ^2/NDF : 3214277465.7/8

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 : 579933.6/24

Right Out: 0.035+/-0.000 χ^2/NDF : 274757.5/18

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.036+/-0.000 χ^2/NDF : 1448268.2/47

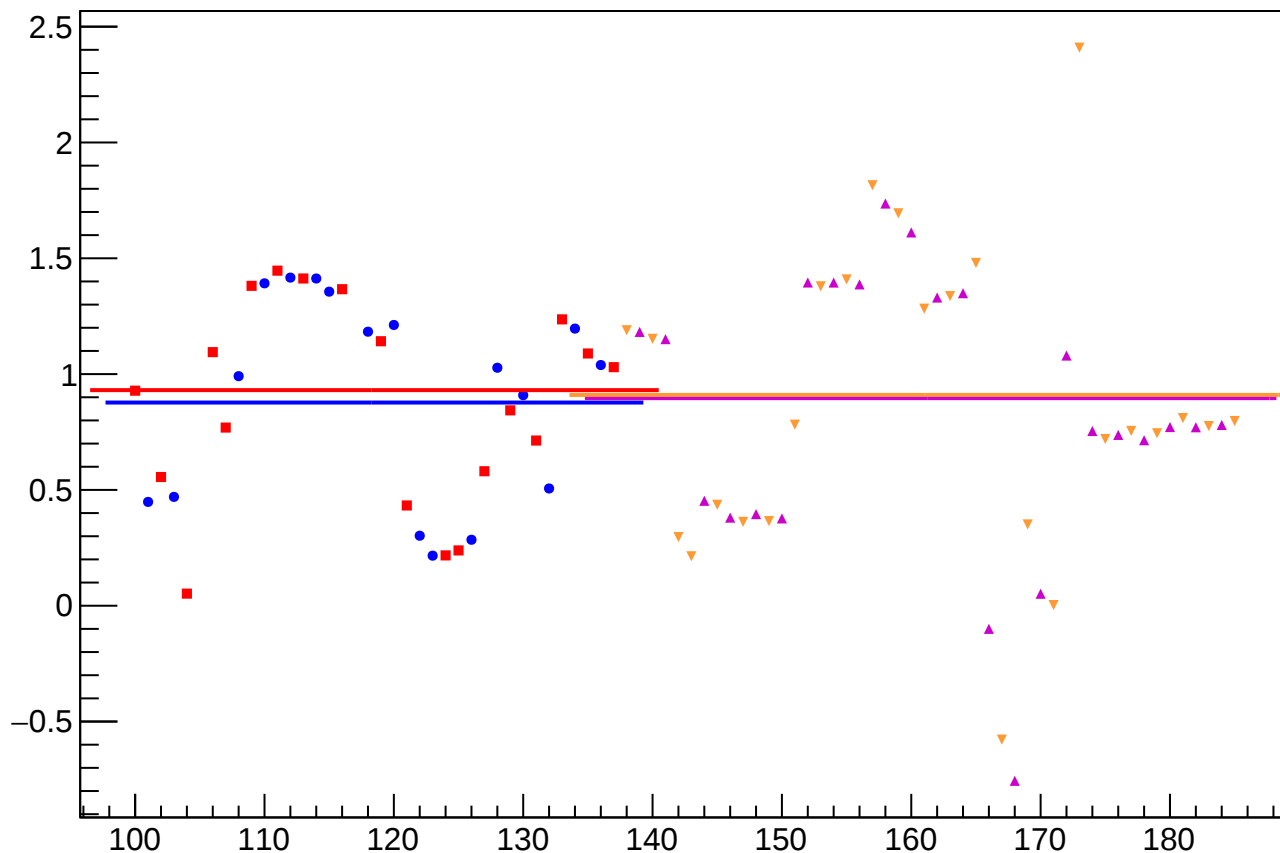
Right: 0.034+/-0.000 χ^2/NDF : 700763.4/35

In: 0.035+/-0.000 χ^2/NDF : 1327989.0/39

Out: 0.035+/-0.000 χ^2/NDF : 855454.7/43

All: 0.035+/-0.000 χ^2/NDF : 2183971.3/83

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.877 $\pm$ 0.000 χ^2 /NDF: 6492530367.5/16

Left Out: 0.910 $\pm$ 0.000 χ^2 /NDF: 83556205223.6/24

Right Out: 0.931 $\pm$ 0.000 χ^2 /NDF: 9963132374.2/18

Left In: 0.896 $\pm$ 0.000 χ^2 /NDF: 66594200889.6/22

Left: 0.903 $\pm$ 0.000 χ^2 /NDF: 150170740108.2/47

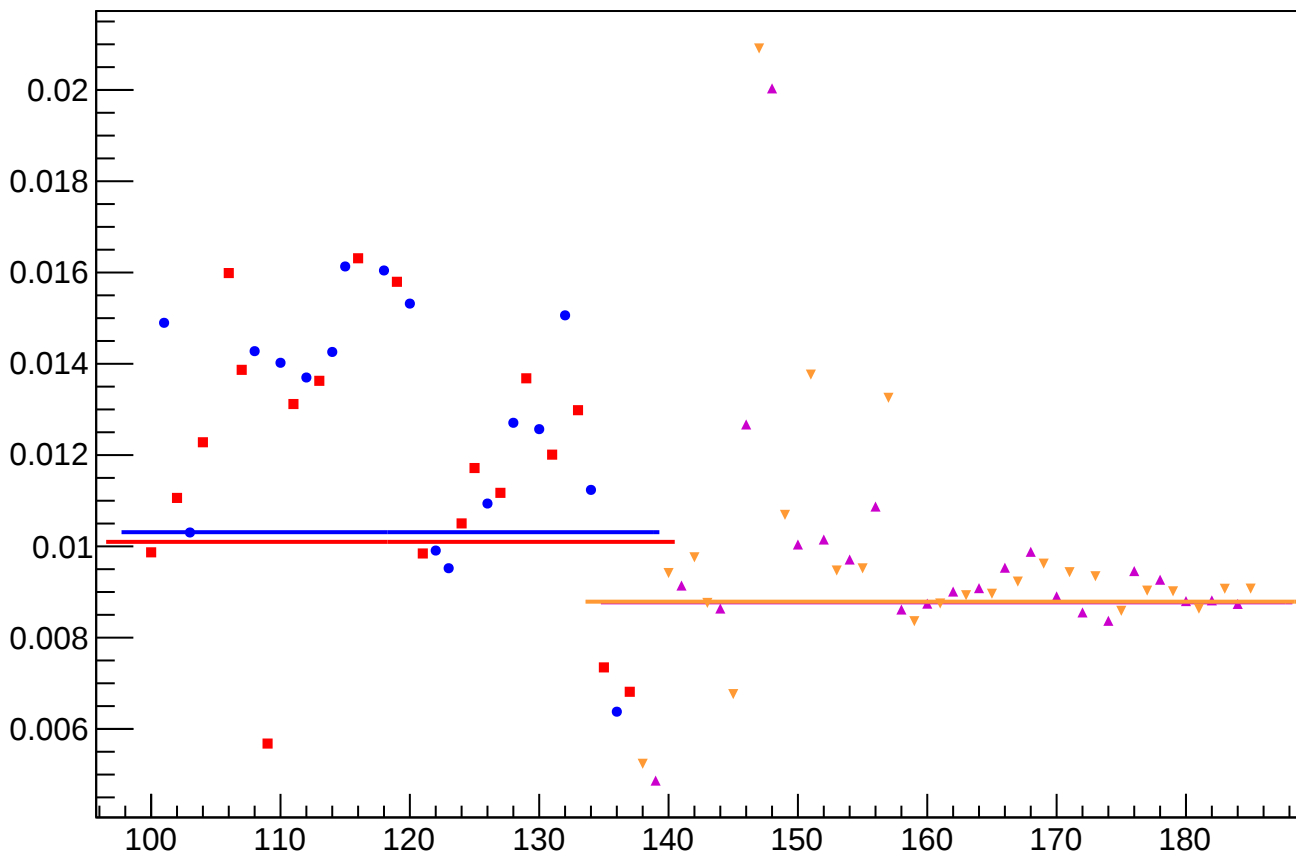
Right: 0.905 $\pm$ 0.000 χ^2 /NDF: 16534143607.8/35

In: 0.892 $\pm$ 0.000 χ^2 /NDF: 73101772599.9/39

Out: 0.914 $\pm$ 0.000 χ^2 /NDF: 93538697714.3/43

All: 0.904 $\pm$ 0.000 χ^2 /NDF: 166705158669.1

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1229309.4/16

Left Out: 0.009+/-0.000 χ^2/NDF :1698805.0/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1175272.9/18

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3306793.3/47

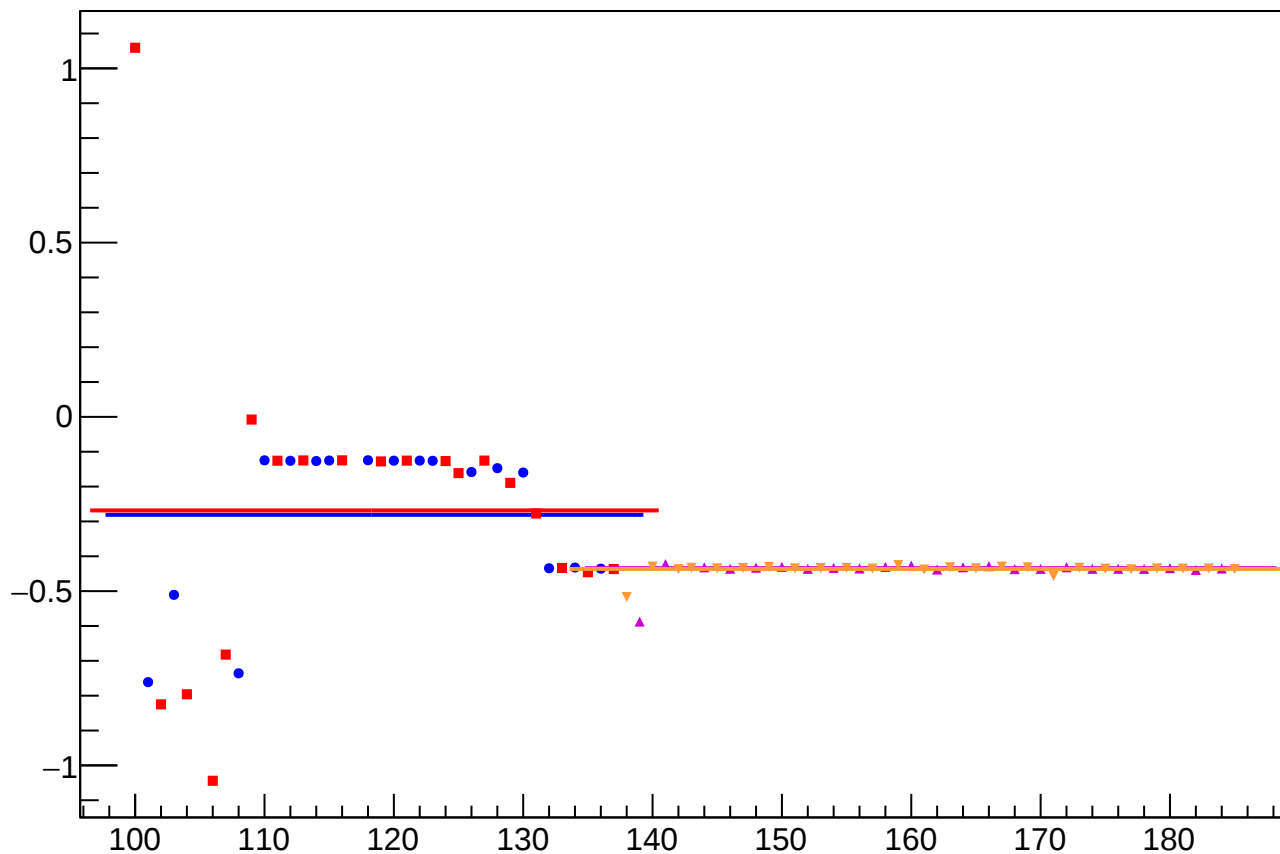
Right: 0.010+/-0.000 χ^2/NDF : 2407045.8/35

In: 0.009+/-0.000 χ^2/NDF :3034970.2/39

Out: 0.009+/-0.000 χ^2/NDF :3029286.8/43

All: 0.009+/-0.000 χ^2/NDF : 6064432.4/83

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.281 ± 0.000 $\chi^2/\text{NDF}: 905834039.3/16$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28786555.1/24$

Right Out: -0.268 ± 0.000 $\chi^2/\text{NDF}: 967576606.4/18$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23984173.0/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53131874.8/47$

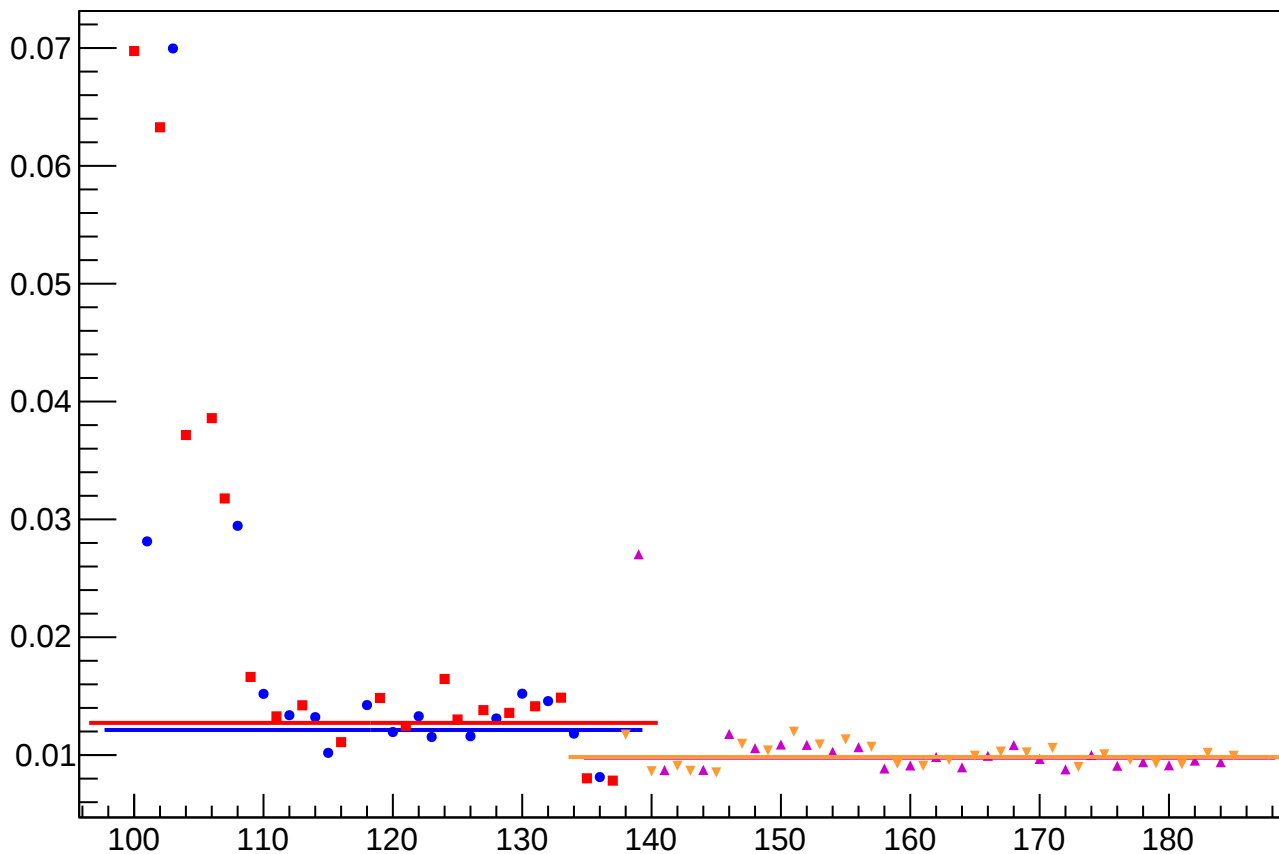
Right: -0.275 ± 0.000 $\chi^2/\text{NDF}: 1875885505.2/35$

In: -0.407 ± 0.000 $\chi^2/\text{NDF}: 1548447140.1/39$

Out: -0.410 ± 0.000 $\chi^2/\text{NDF}: 1704200483.5/43$

All: -0.409 ± 0.000 $\chi^2/\text{NDF}: 3253211101.9/8$

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:261856.0/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1970038.2/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1009946.8/47

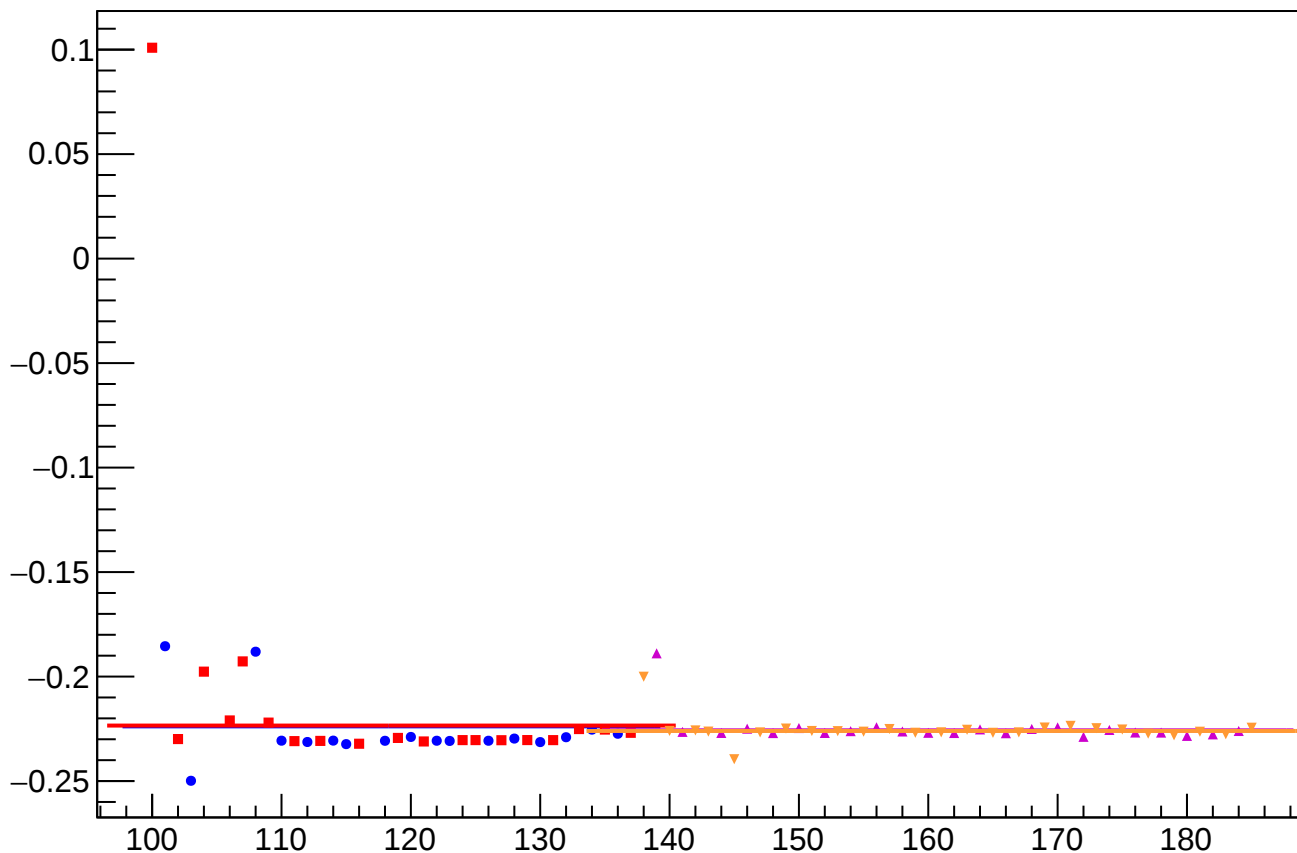
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3705932.5/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2765456.5/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2653607.1/43

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5421057.9/83

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 : 21203245.5/24

Right Out: -0.223+/-0.000 χ^2/NDF : 167796311.6/18

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36477924.6/47

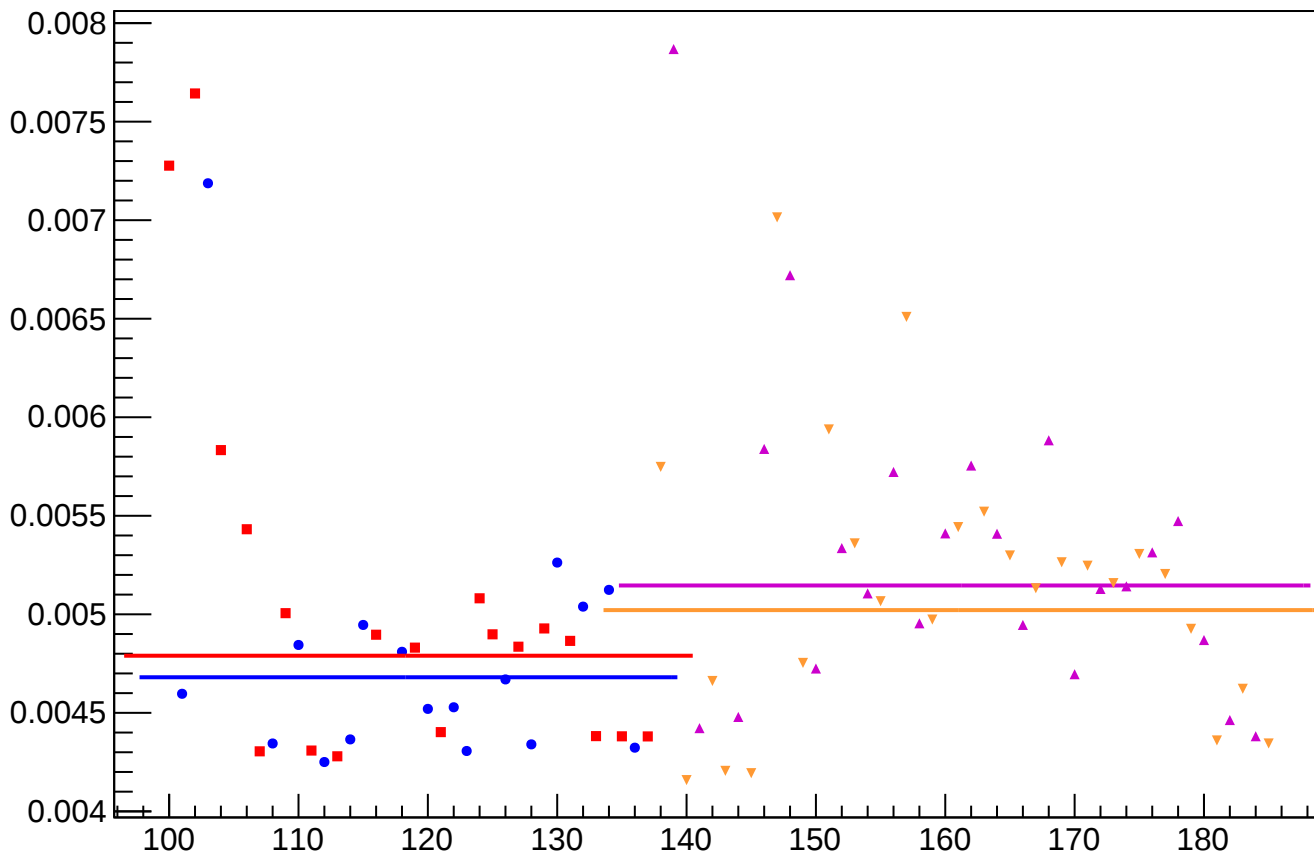
Right: -0.224+/-0.000 χ^2/NDF : 242124166.5/35

In: -0.225+/-0.000 χ^2/NDF : 90238959.6/39

Out: -0.225+/-0.000 χ^2/NDF : 190310716.1/43

All: -0.225+/-0.000 χ^2/NDF : 280558696.2/83

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 : 520959.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 248518.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1024135.4/47

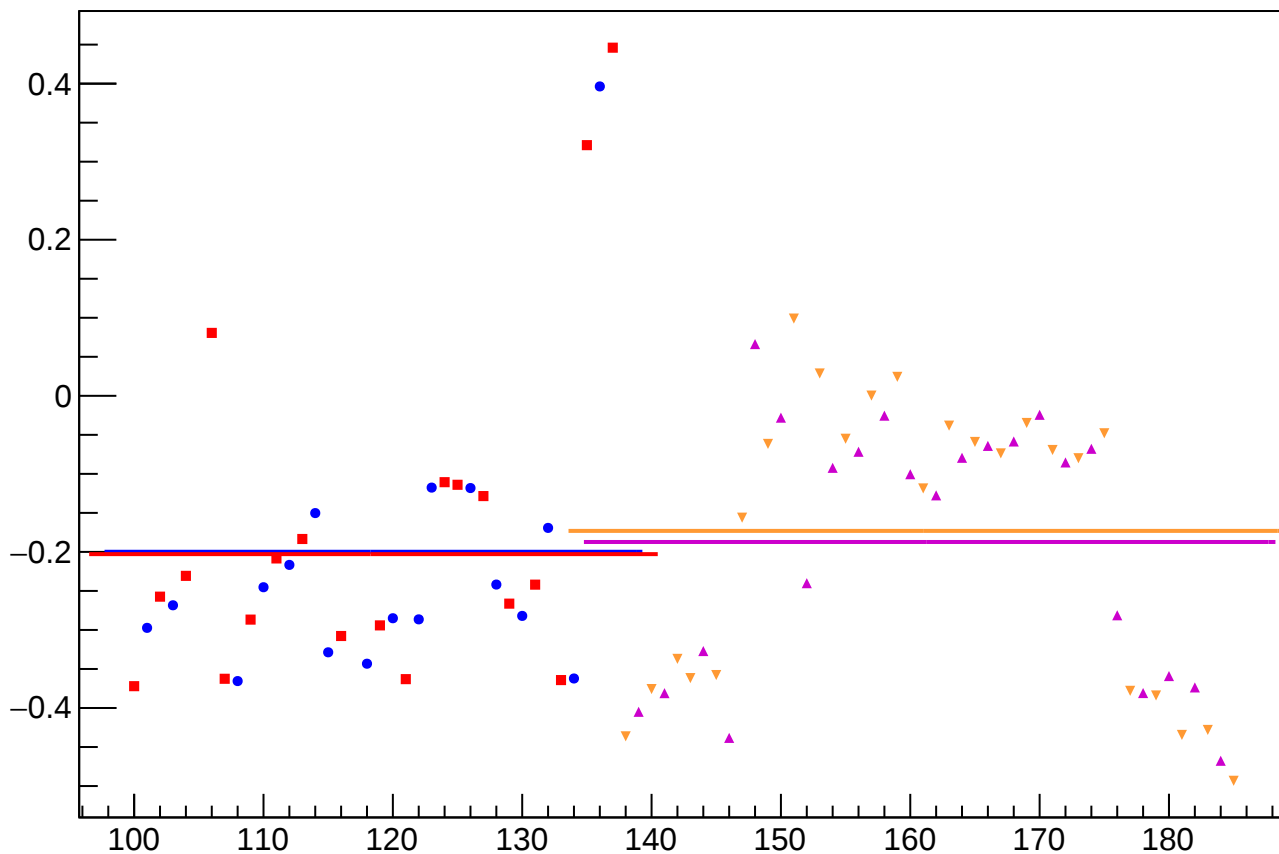
Right: 0.005+/-0.000 χ^2/NDF : 432453.6/35

In: 0.005+/-0.000 χ^2/NDF : 756112.5/39

Out: 0.005+/-0.000 χ^2/NDF : 790601.8/43

All: 0.005+/-0.000 χ^2/NDF : 1548861.6/83

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5966157035.1/16$

Left Out: -0.173 ± 0.000 $\chi^2/\text{NDF}: 17863485955.9/24$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5025528680.0/18$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.180 ± 0.000 $\chi^2/\text{NDF}: 30736726373.9/47$

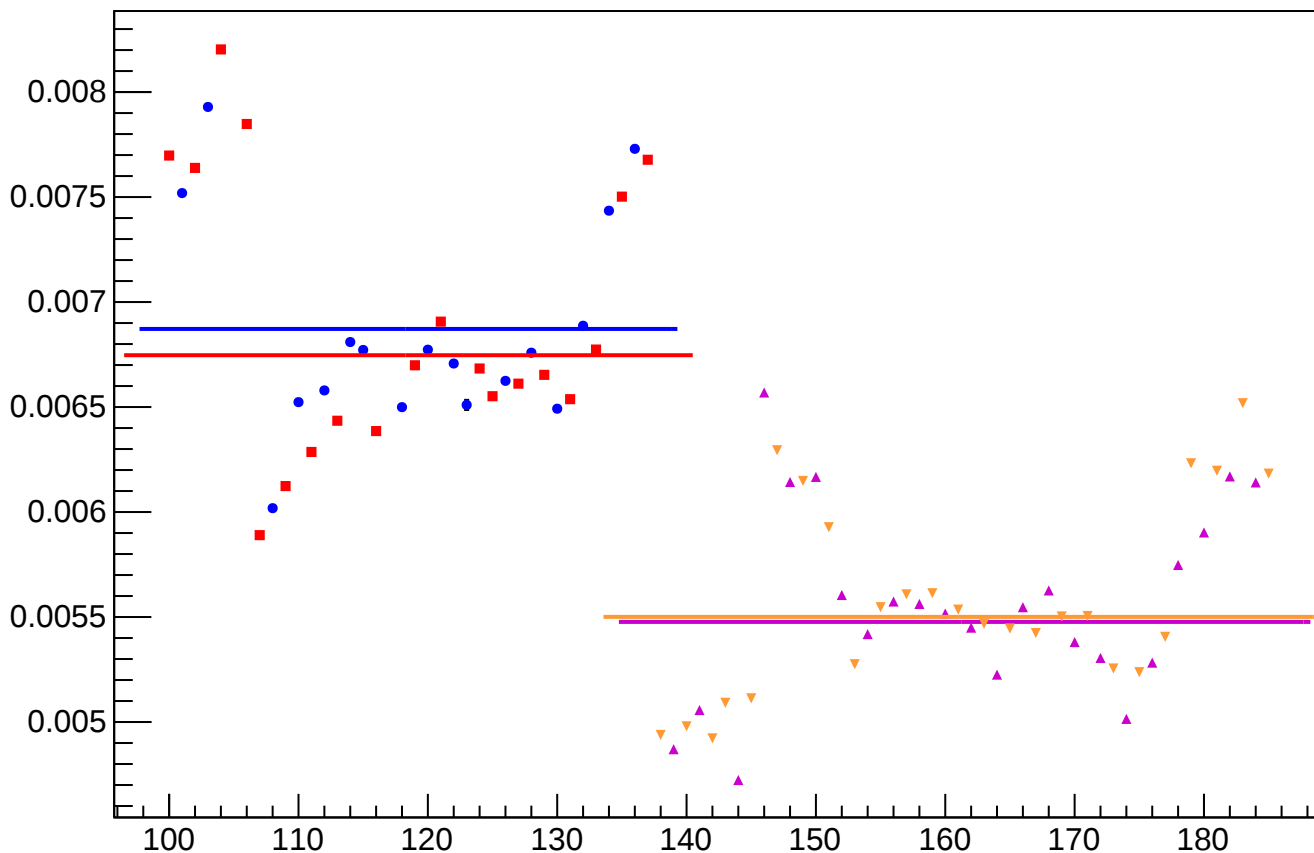
Right: -0.201 ± 0.000 $\chi^2/\text{NDF}: 10992344993.2/35$

In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 18800196004.2/39$

Out: -0.179 ± 0.000 $\chi^2/\text{NDF}: 22994811002.5/43$

All: -0.184 ± 0.000 $\chi^2/\text{NDF}: 41834265049.1/100$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78685.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :196689.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 105420.2/18

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 399194.6/47

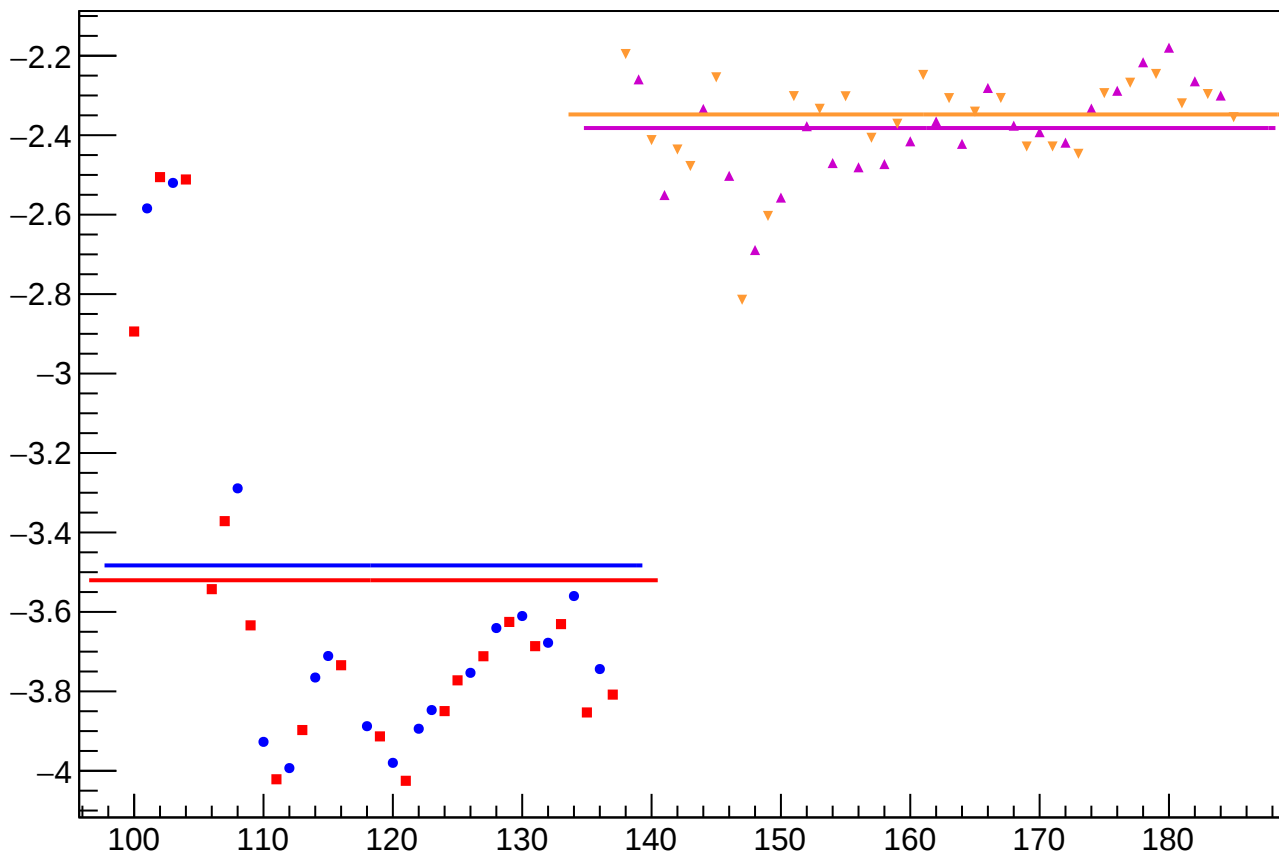
Right: 0.007+/-0.000 χ^2/NDF : 186365.3/35

In: 0.006+/-0.000 χ^2/NDF :711133.9/39

Out: 0.006+/-0.000 χ^2/NDF :672465.1/43

All: 0.006+/-0.000 χ^2/NDF : 1383600.2/83

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: 2137408271.6/24

Right Out: -3.520+/-0.000 χ^2 /NDF: 26453336521.2/18

Left In: -2.382+/-0.000 χ^2 /NDF: 2318395228.4/22

Left: -2.364+/-0.000 χ^2 /NDF: 4583830926.7/47

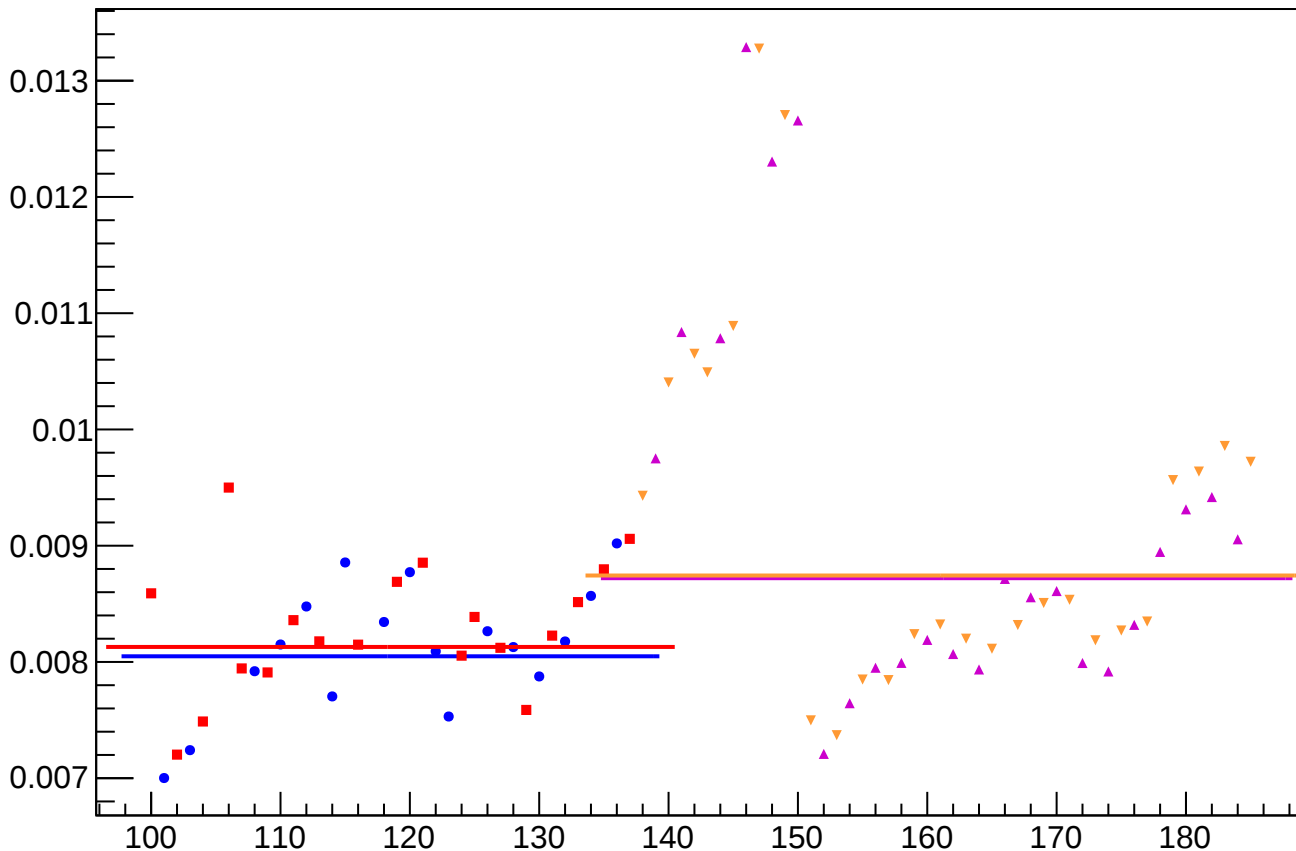
Right: -3.502+/-0.000 χ^2 /NDF: 53681520881.9/35

In: -2.734+/-0.000 χ^2 /NDF: 112054853544.7/39

Out: -2.715+/-0.000 χ^2 /NDF: 125044914489.7/43

All: -2.724+/-0.000 χ^2 /NDF: 237153819763.6

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 72176.4/16

Left Out: 0.009+/-0.000 χ^2/NDF : 657468.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 57777.8/18

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1405451.7/47

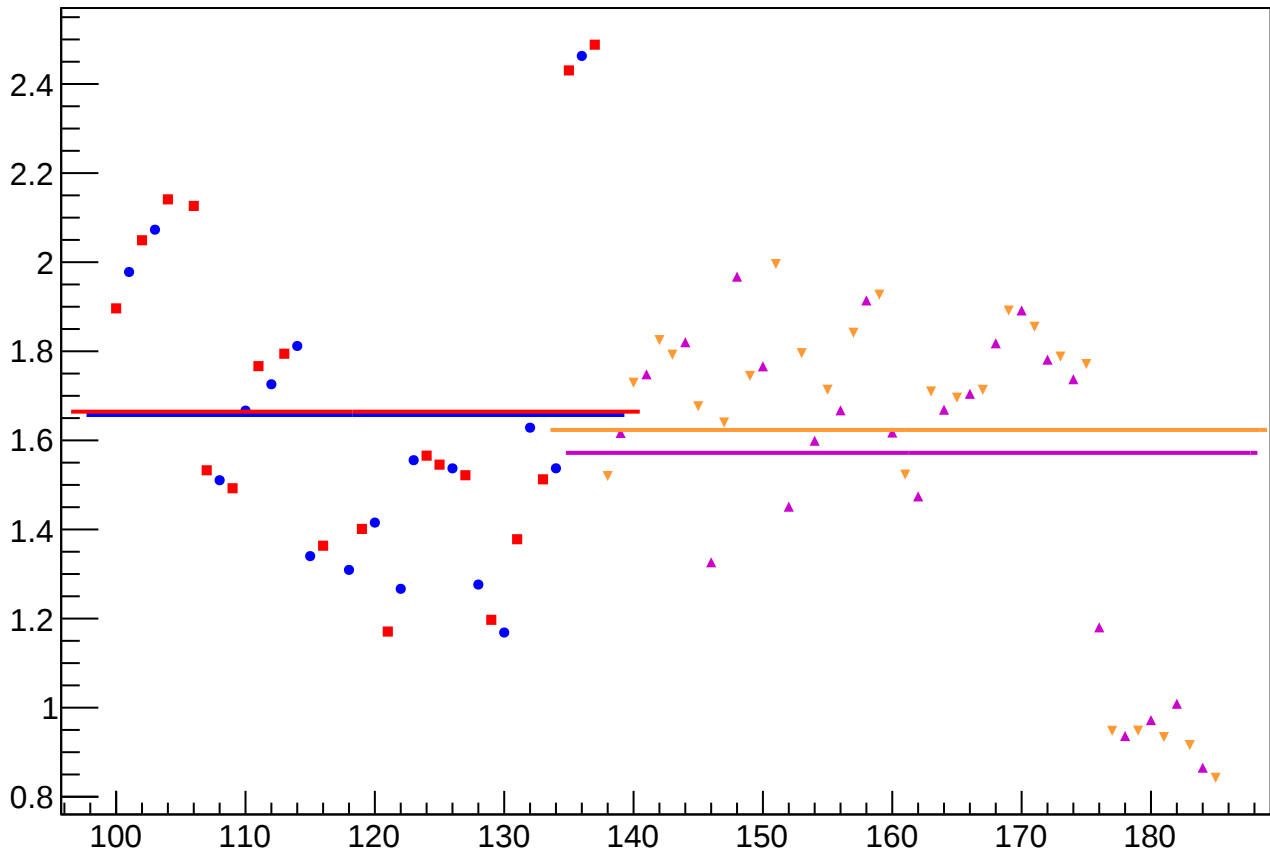
Right: 0.008+/-0.000 χ^2/NDF : 130608.9/35

In: 0.009+/-0.000 χ^2/NDF : 881545.7/39

Out: 0.009+/-0.000 χ^2/NDF : 768226.9/43

All: 0.009+/-0.000 χ^2/NDF : 1650422.7/83

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657 $\pm$ 0.000 χ^2 /NDF: 6432420267.9/16

Left Out: 1.623 $\pm$ 0.000 χ^2 /NDF: 16593275159.9/24

Right Out: 1.664 $\pm$ 0.000 χ^2 /NDF: 5940917748.5/18

Left In: 1.572 $\pm$ 0.000 χ^2 /NDF: 14230484809.4/22

Left: 1.598 $\pm$ 0.000 χ^2 /NDF: 31024338683.9/47

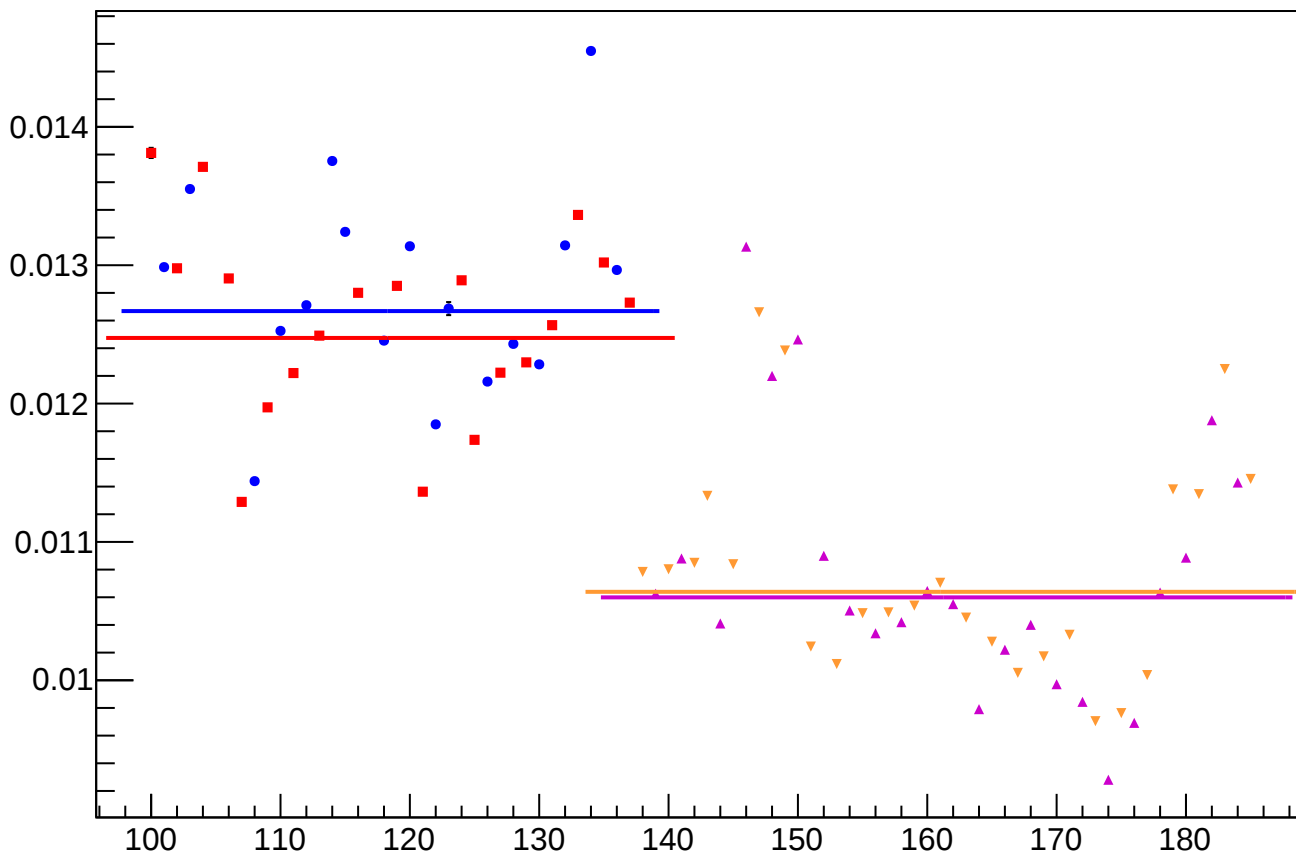
Right: 1.661 $\pm$ 0.000 χ^2 /NDF: 12374534399.5/35

In: 1.590 $\pm$ 0.000 χ^2 /NDF: 20893525666.7/39

Out: 1.633 $\pm$ 0.000 χ^2 /NDF: 22592001223.7/43

All: 1.612 $\pm$ 0.000 χ^2 /NDF: 43658010750.7/8

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 :159994.5/24

Right Out: 0.012+/-0.000 χ^2/NDF : 38559.4/18

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364769.9/47

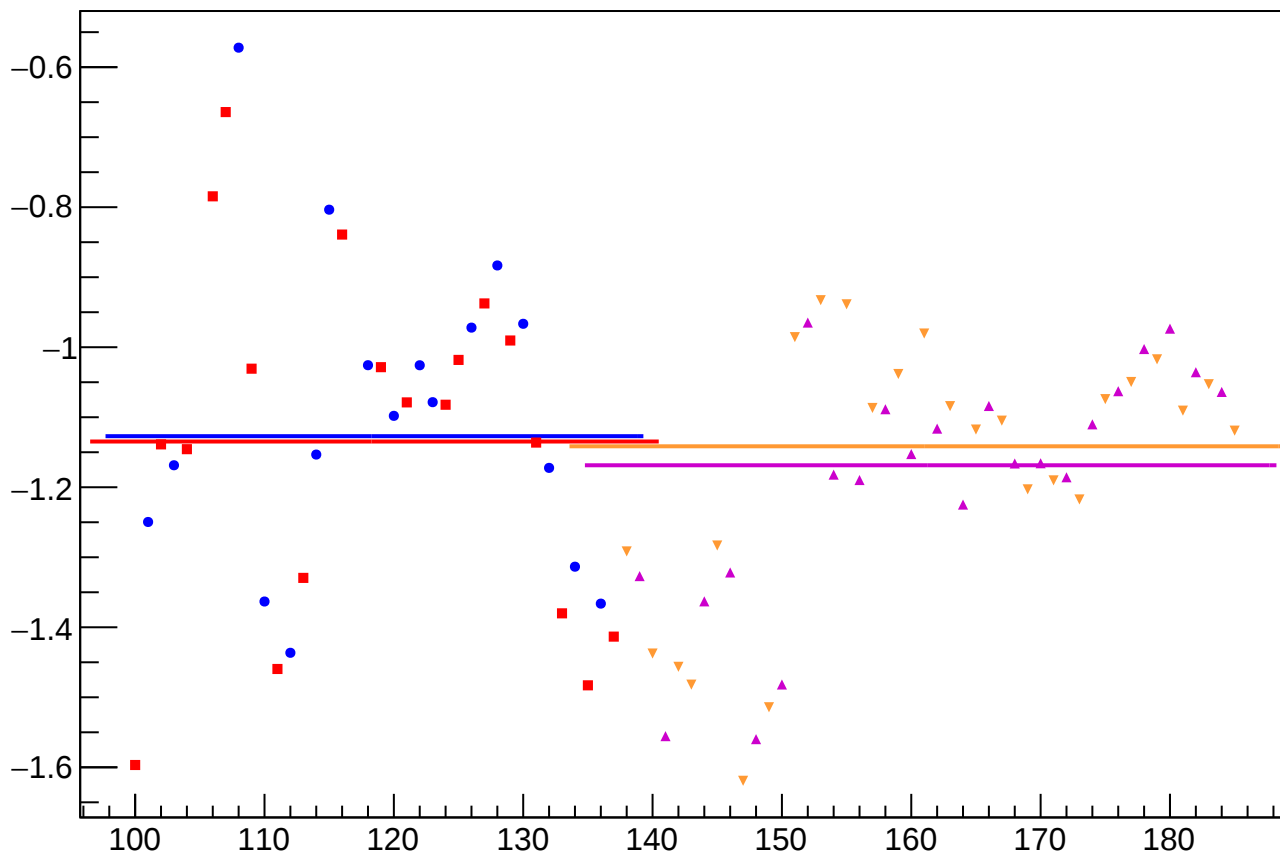
Right: 0.013+/-0.000 χ^2/NDF : 71882.0/35

In: 0.011+/-0.000 χ^2/NDF :509684.4/39

Out: 0.011+/-0.000 χ^2/NDF :429890.6/43

All: 0.011+/-0.000 χ^2/NDF : 939575.1/83

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.127+/-0.000 χ^2/NDF : 3546179478.6/16

Left Out: -1.142+/-0.000 χ^2/NDF : 7781802064.1/24

Right Out: -1.135+/-0.000 χ^2/NDF : 3674870672.6/18

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.155+/-0.000 χ^2/NDF : 14243547369.4/47

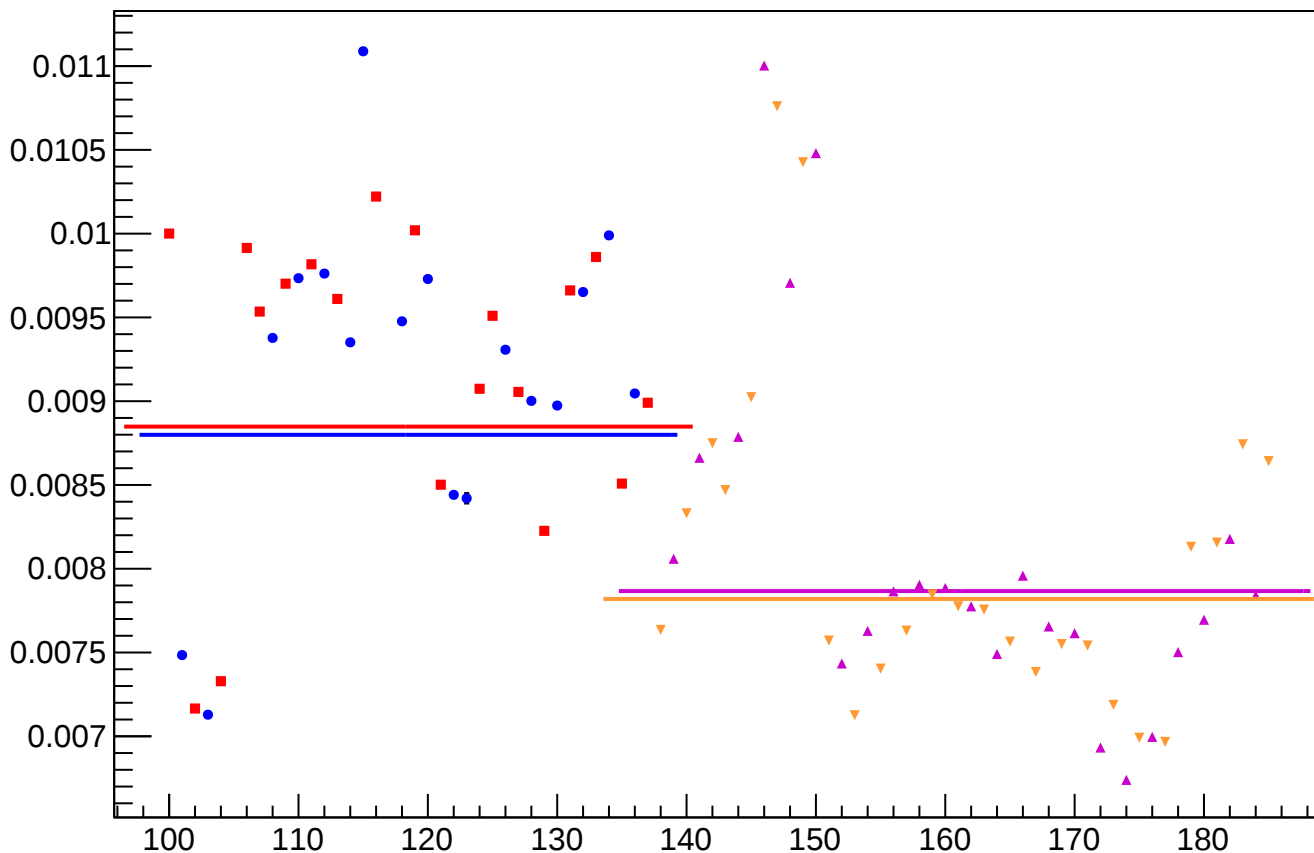
Right: -1.131+/-0.000 χ^2/NDF : 7223462061.2/35

In: -1.159+/-0.000 χ^2/NDF : 10016669125.0/39

Out: -1.140+/-0.000 χ^2/NDF : 11459691357.0/43

All: -1.149+/-0.000 χ^2/NDF : 21538603012.3/79

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 :335206.2/24

Right Out: 0.009+/-0.000 χ^2/NDF : 174016.9/18

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 715706.4/47

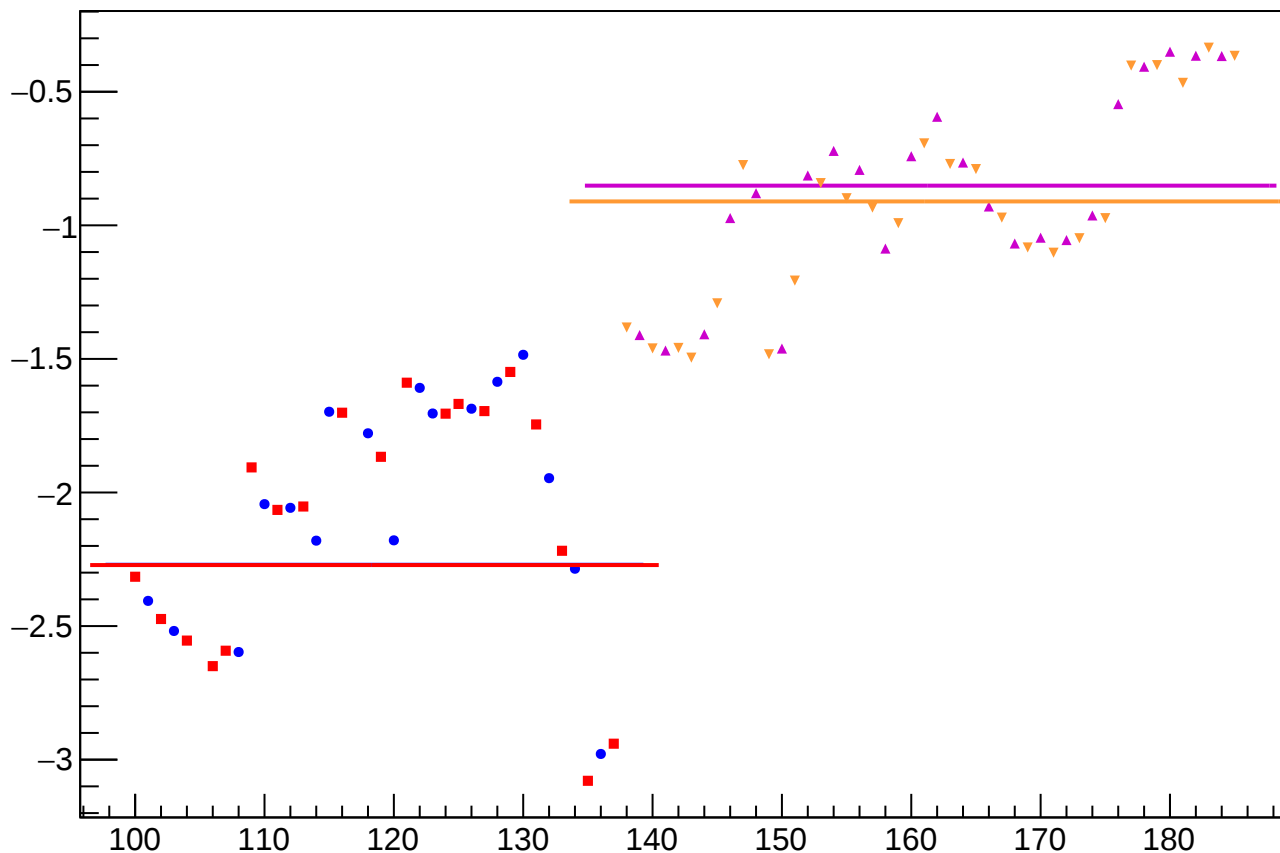
Right: 0.009+/-0.000 χ^2/NDF : 325740.2/35

In: 0.008+/-0.000 χ^2/NDF :640088.7/39

Out: 0.008+/-0.000 χ^2/NDF :646047.7/43

All: 0.008+/-0.000 χ^2/NDF : 1286465.9/83

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.271+/-0.000 χ^2/NDF : 17322622121.9/16

Left Out: -0.911+/-0.000 χ^2/NDF : 48569704069.9/24

Right Out: -2.272+/-0.000 χ^2/NDF : 19002792241.6/18

Left In: -0.851+/-0.000 χ^2/NDF : 46438446008.2/22

Left: -0.881+/-0.000 χ^2/NDF : 95774732371.5/47

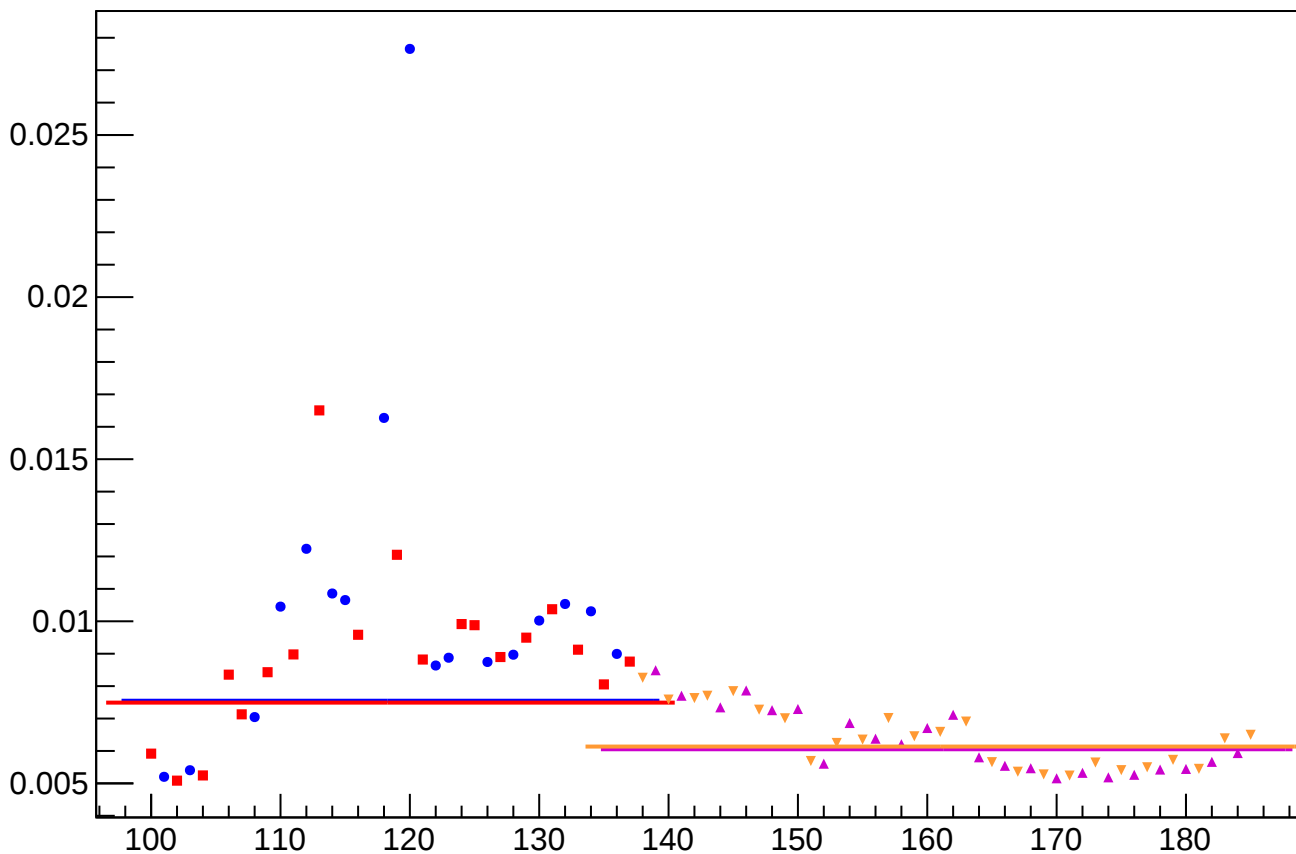
Right: -2.271+/-0.000 χ^2/NDF : 36325463324.0/35

In: -1.090+/-0.000 χ^2/NDF : 211227475890.4/39

Out: -1.160+/-0.000 χ^2/NDF : 218268060440.5/43

All: -1.126+/-0.000 χ^2/NDF : 430791653520.0

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 : 626214.6/24

Right Out: 0.007+/-0.000 χ^2/NDF : 926036.5/18

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1326830.8/47

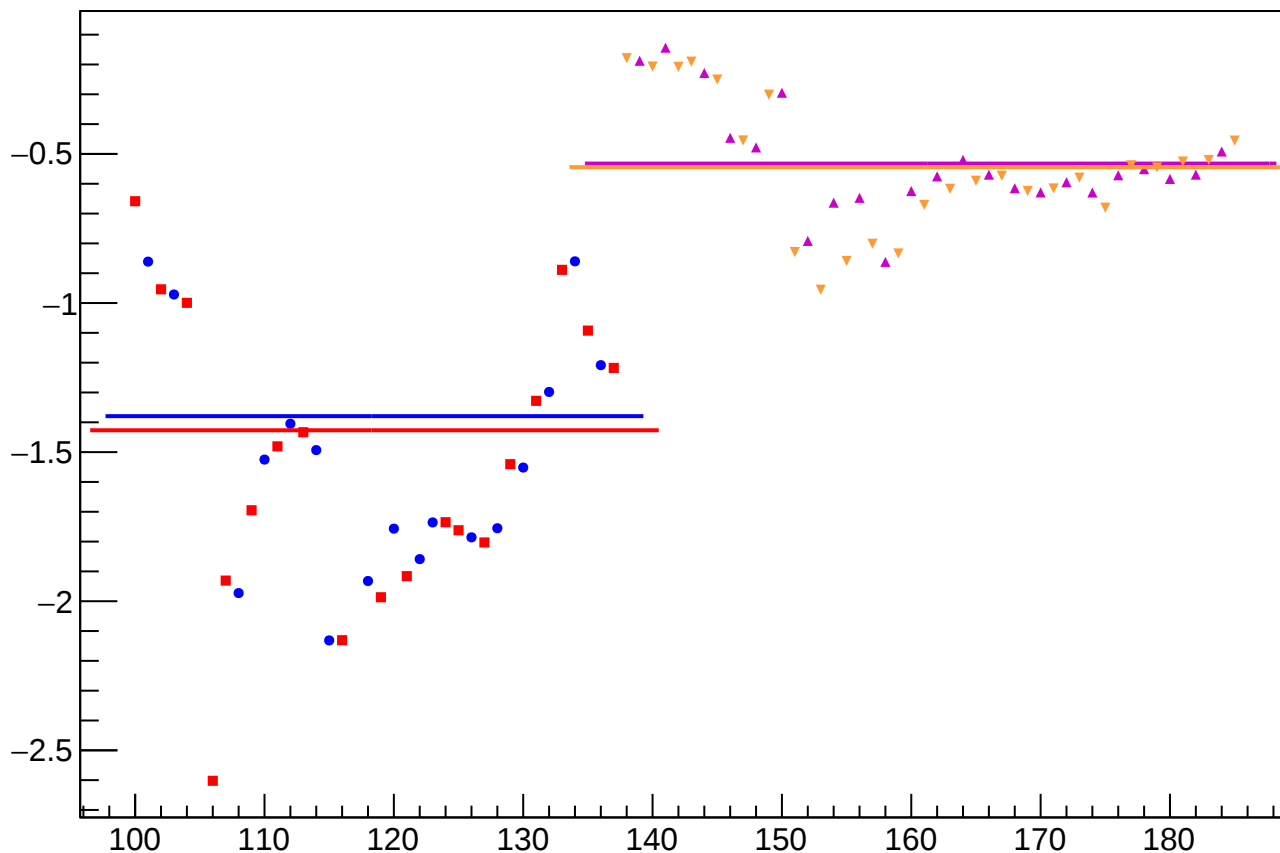
Right: 0.008+/-0.000 χ^2/NDF : 2141481.5/35

In: 0.006+/-0.000 χ^2/NDF : 2240719.4/39

Out: 0.006+/-0.000 χ^2/NDF : 1851166.8/43

All: 0.006+/-0.000 χ^2/NDF : 4095276.9/83

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.379+/-0.000 χ^2/NDF : 19933785465.4/16

Left Out: -0.544+/-0.000 χ^2/NDF : 46342528873.3/24

Right Out: -1.427+/-0.000 χ^2/NDF : 29588471982.5/18

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.539+/-0.000 χ^2/NDF : 77129619281.0/47

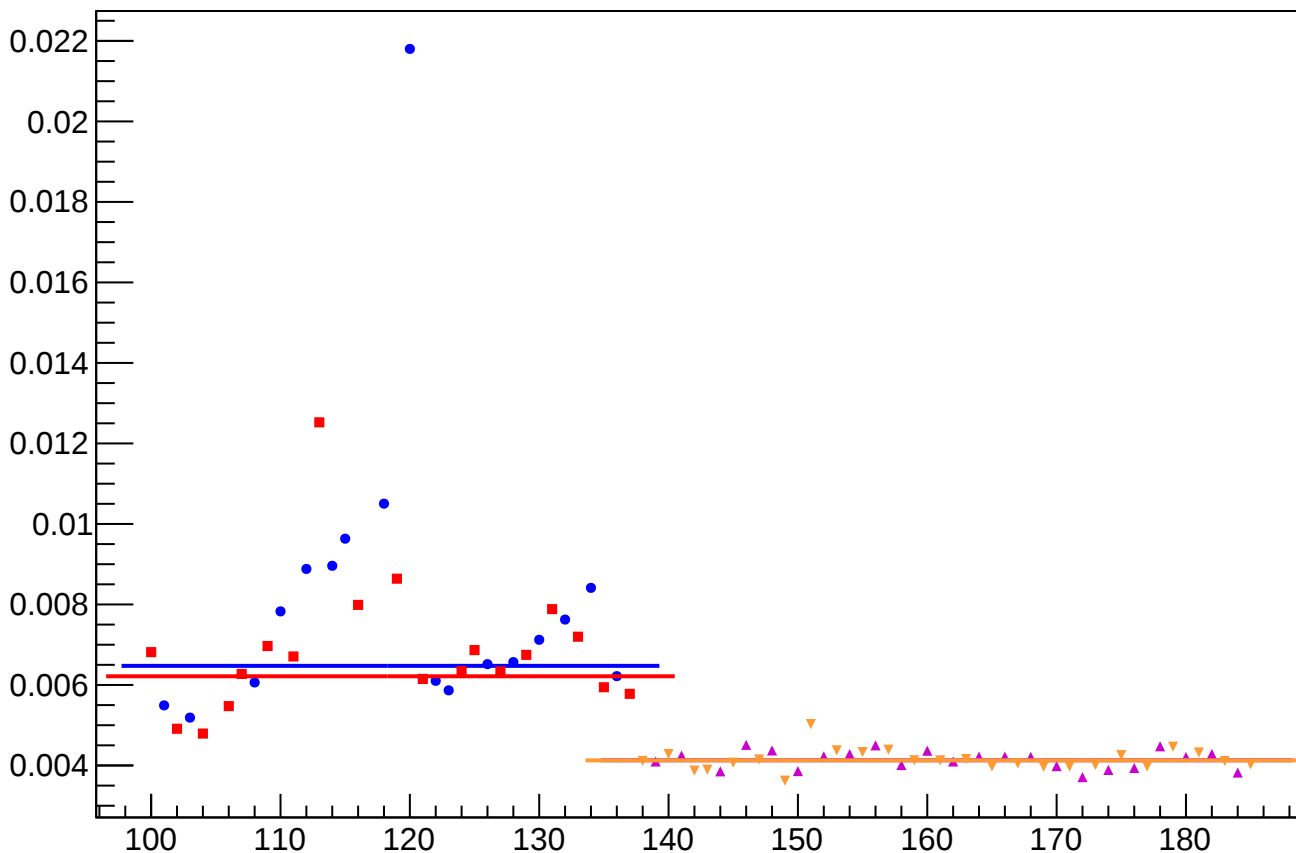
Right: -1.405+/-0.000 χ^2/NDF : 49678951559.0/35

In: -0.635+/-0.000 χ^2/NDF : 132268066693.4/39

Out: -0.662+/-0.000 χ^2/NDF : 178285536405.3/43

All: -0.649+/-0.000 χ^2/NDF : 310959351202.5

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 : 111458.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 418205.6/18

Left In: 0.004+/-0.000 χ^2/NDF : 93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 204576.8/47

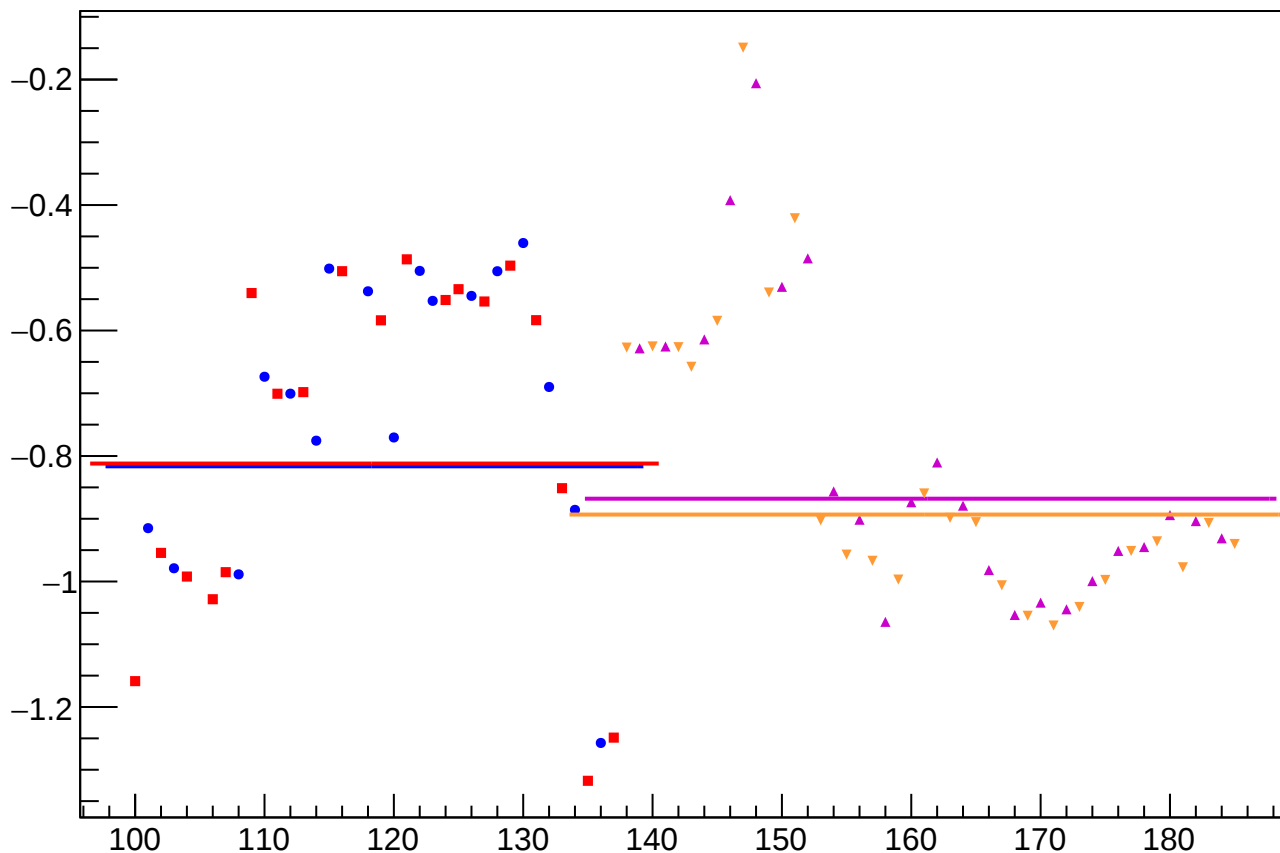
Right: 0.006+/-0.000 χ^2/NDF : 998013.7/35

In: 0.004+/-0.000 χ^2/NDF : 1914472.7/39

Out: 0.004+/-0.000 χ^2/NDF : 1677066.9/43

All: 0.004+/-0.000 χ^2/NDF : 3591620.4/83

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 ± 0.000 $\chi^2/\text{NDF}: 14108272810.0/16$

Left Out: -0.893 ± 0.000 $\chi^2/\text{NDF}: 40616005401.9/24$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 16809508448.8/18$

Left In: -0.868 ± 0.000 $\chi^2/\text{NDF}: 43853190177.2/22$

Left: -0.881 ± 0.000 $\chi^2/\text{NDF}: 84826642650.9/47$

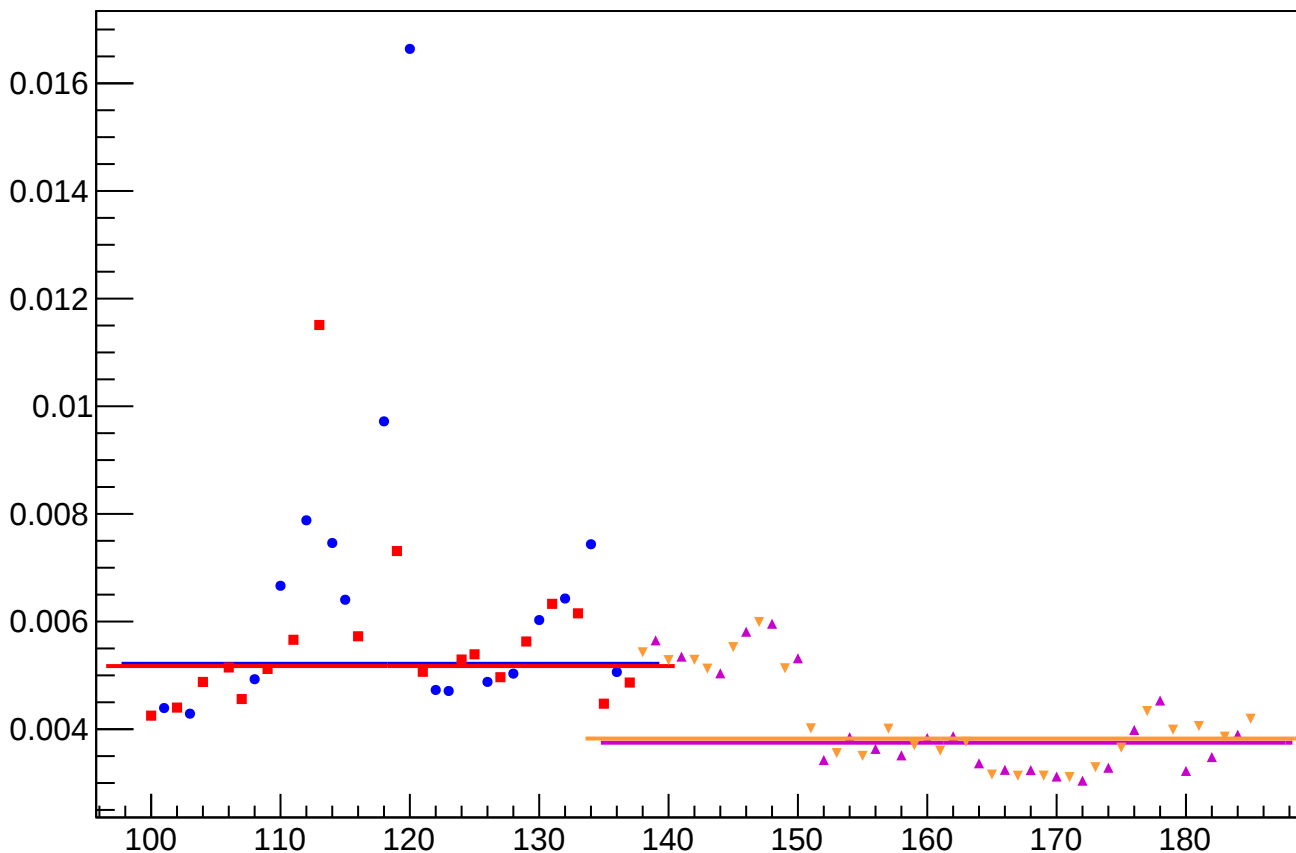
Right: -0.814 ± 0.000 $\chi^2/\text{NDF}: 30919803478.2/35$

In: -0.860 ± 0.000 $\chi^2/\text{NDF}: 58405201980.4/39$

Out: -0.880 ± 0.000 $\chi^2/\text{NDF}: 58647924023.4/43$

All: -0.870 ± 0.000 $\chi^2/\text{NDF}: 117307575836.2$

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 :1161403.2/24

Right Out: 0.005+/-0.000 χ^2/NDF : 359707.6/18

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2456552.0/47

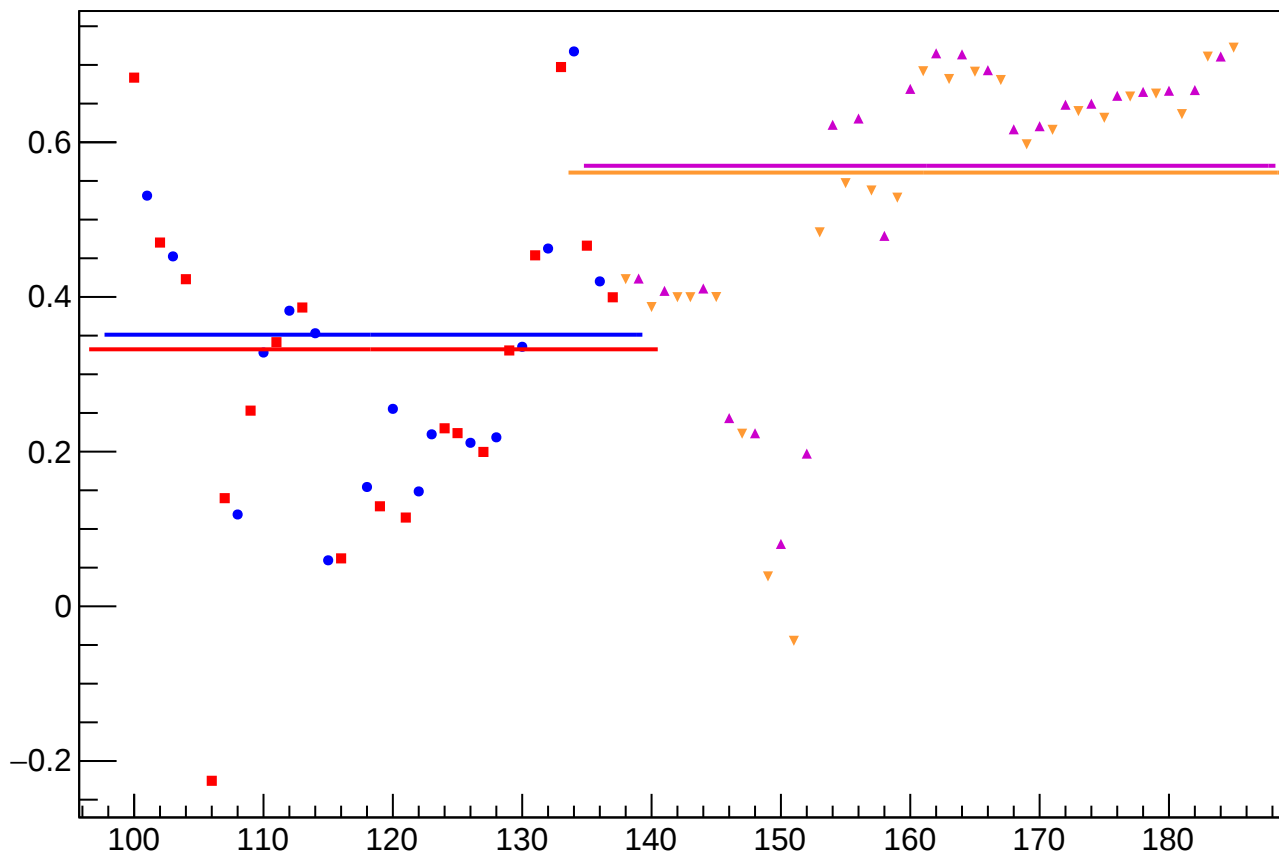
Right: 0.005+/-0.000 χ^2/NDF : 1022911.9/35

In: 0.004+/-0.000 χ^2/NDF :2667316.1/39

Out: 0.004+/-0.000 χ^2/NDF :2191820.1/43

All: 0.004+/-0.000 χ^2/NDF : 4867687.6/83

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7385246200.8/16

Left: 0.565+/-0.000

χ^2/NDF : 87218285292.0/47

Left Out: 0.561+/-0.000

χ^2/NDF : 45052974608.3/24

Right: 0.341+/-0.000

χ^2/NDF : 19234190594.7/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11783358695.7/18

In: 0.530+/-0.000

χ^2/NDF : 62979079372.7/39

Out: 0.516+/-0.000

χ^2/NDF : 73314697964.3/43

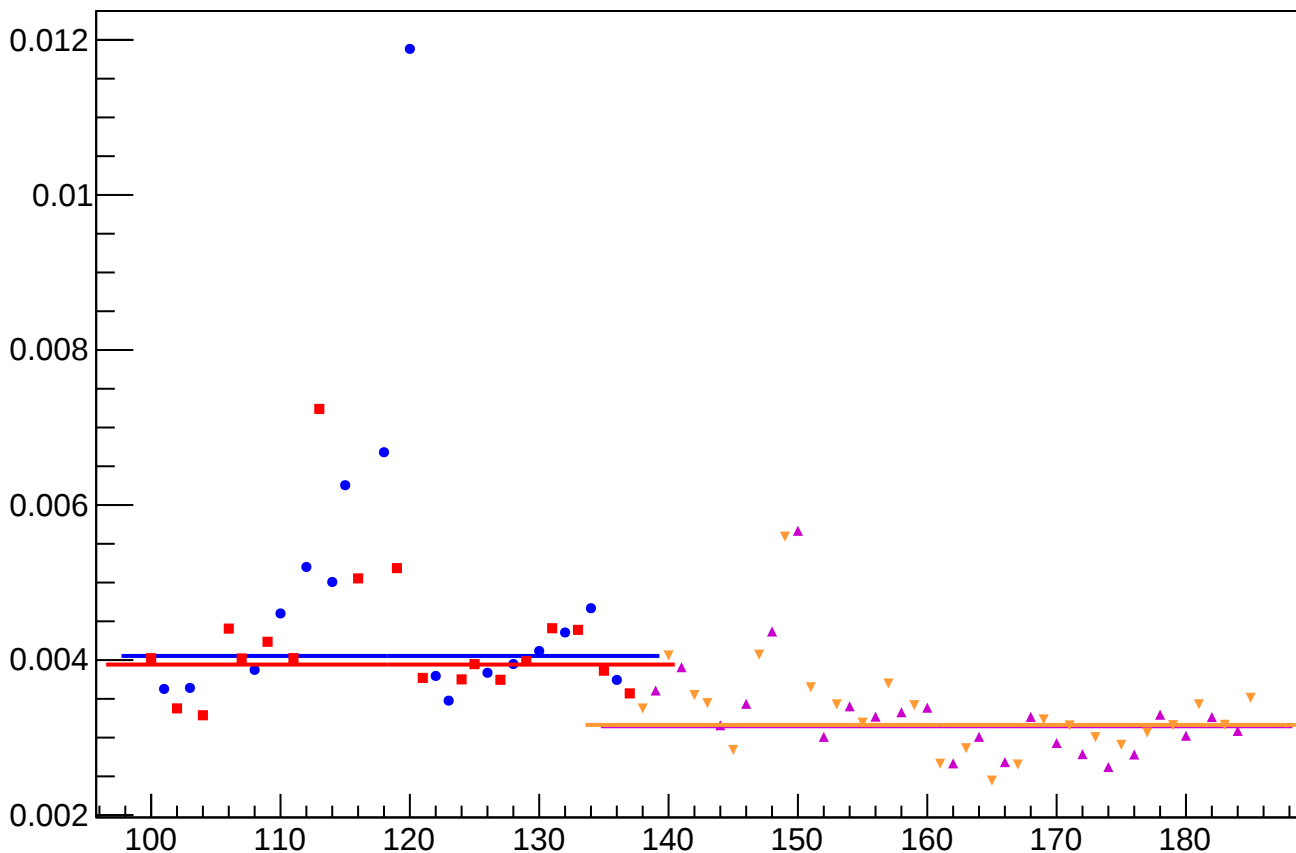
Left In: 0.570+/-0.000

χ^2/NDF : 42104067973.0/22

All: 0.523+/-0.000

χ^2/NDF : 136481706673.9

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 : 741226.5/24

Right Out: 0.004+/-0.000 χ^2/NDF : 259219.7/18

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1458116.9/47

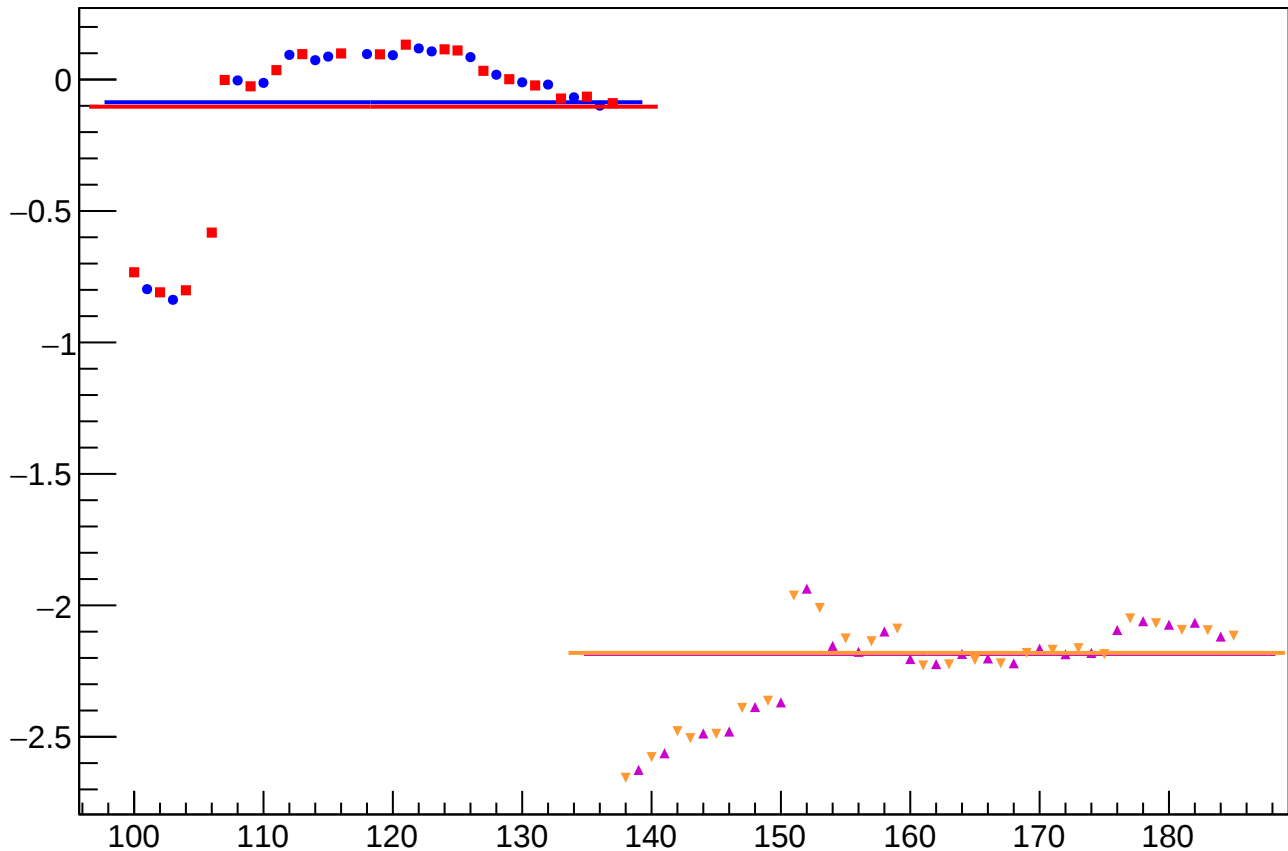
Right: 0.004+/-0.000 χ^2/NDF : 717489.4/35

In: 0.003+/-0.000 χ^2/NDF : 1635477.0/39

Out: 0.003+/-0.000 χ^2/NDF : 1382695.7/43

All: 0.003+/-0.000 χ^2/NDF : 3018225.9/83

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086 ± 0.000 $\chi^2/\text{NDF}: 4986216359.8/16$

Left Out: -2.181 ± 0.000 $\chi^2/\text{NDF}: 3965712624.8/24$

Right Out: -0.103 ± 0.000 $\chi^2/\text{NDF}: 5547327629.3/18$

Left In: -2.185 ± 0.000 $\chi^2/\text{NDF}: 3372742534.3/22$

Left: -2.183 ± 0.000 $\chi^2/\text{NDF}: 7339687594.3/47$

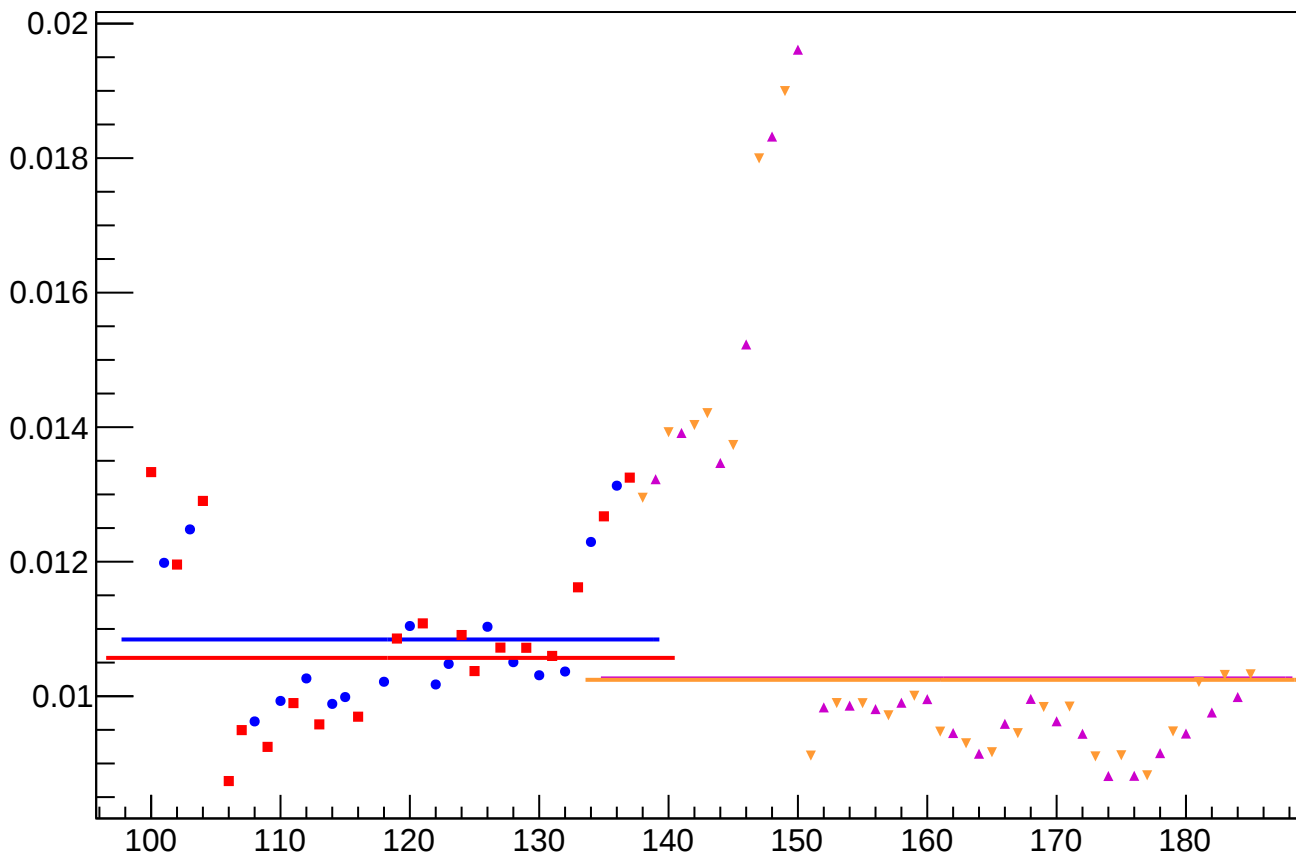
Right: -0.095 ± 0.000 $\chi^2/\text{NDF}: 10541991957.2/35$

In: -1.632 ± 0.000 $\chi^2/\text{NDF}: 190830991623.0/39$

Out: -1.615 ± 0.000 $\chi^2/\text{NDF}: 206047607547.2/43$

All: -1.623 ± 0.000 $\chi^2/\text{NDF}: 396911577428.8$

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 :1254690.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 178759.8/18

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2595022.7/47

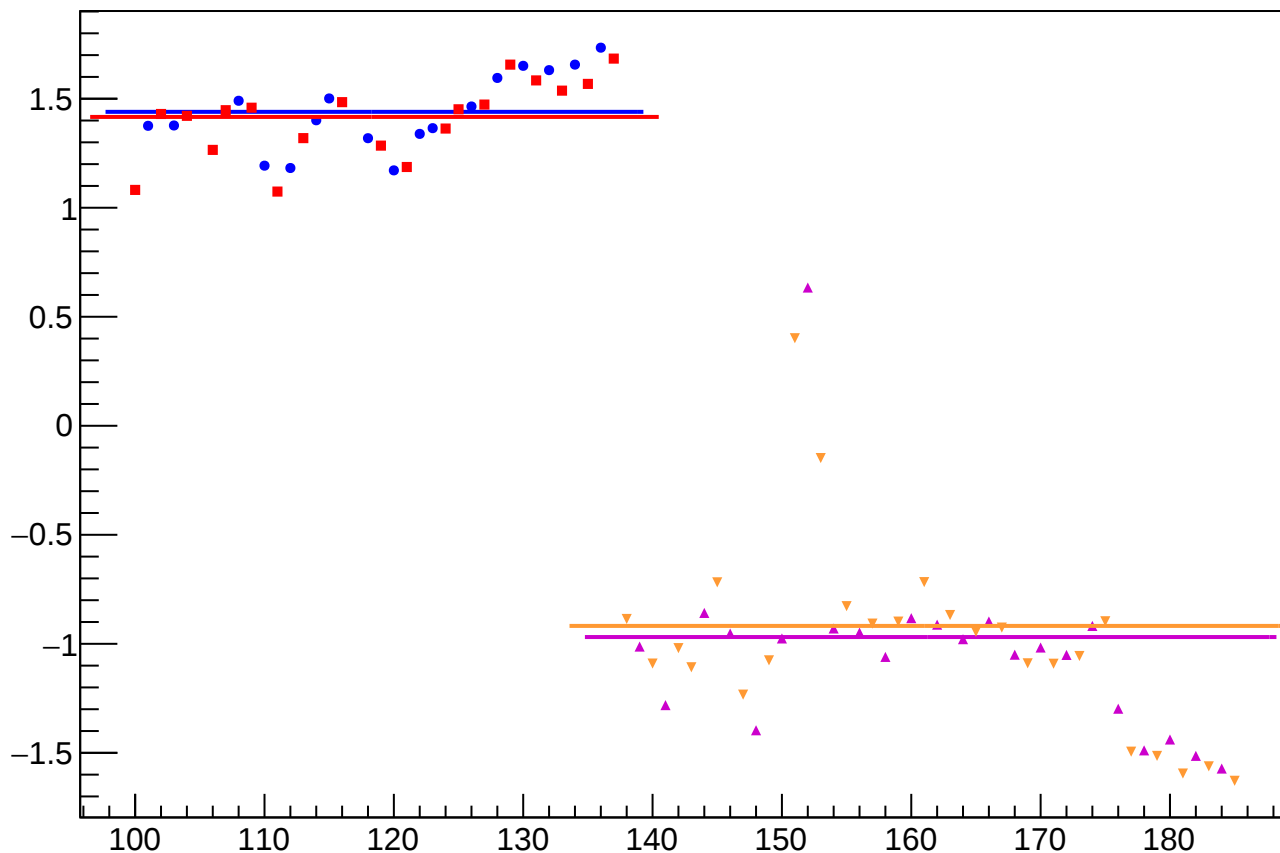
Right: 0.011+/-0.000 χ^2/NDF : 307381.8/35

In: 0.010+/-0.000 χ^2/NDF :1492254.8/39

Out: 0.010+/-0.000 χ^2/NDF :1443121.1/43

All: 0.010+/-0.000 χ^2/NDF : 2936945.7/83

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3439698839.5/16

Left Out: -0.918 $\pm$ 0.000 χ^2 /NDF: 55556757821.8/24

Right Out: 1.416 $\pm$ 0.000 χ^2 /NDF: 2670163204.9/18

Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

Left: -0.943 $\pm$ 0.000 χ^2 /NDF: 110771139128.3/47

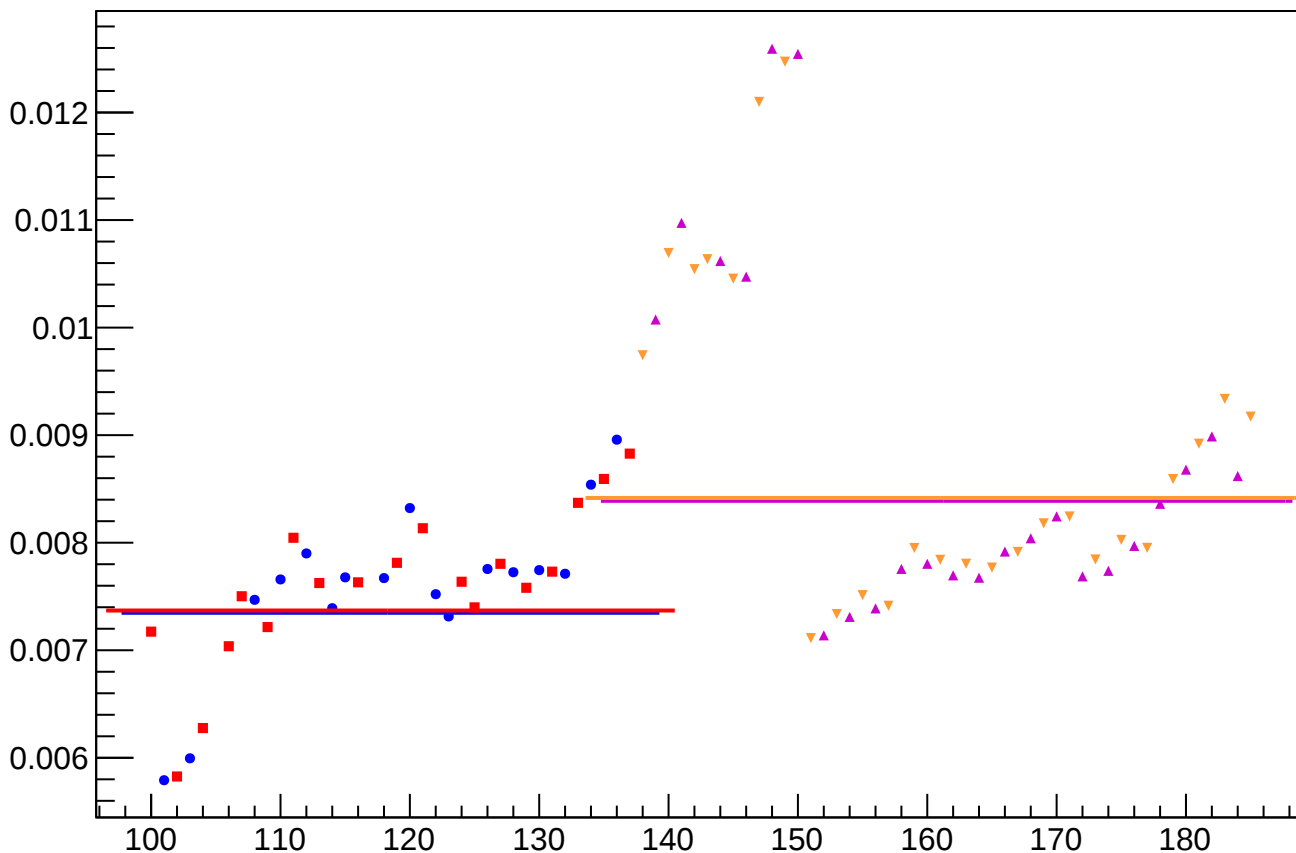
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6143895707.9/35

In: -0.158 $\pm$ 0.000 χ^2 /NDF: 526148939000.2/39

Out: -0.127 $\pm$ 0.000 χ^2 /NDF: 522133765689.2/43

All: -0.142 $\pm$ 0.000 χ^2 /NDF: 1048461463988

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 228667.0/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:780133.8/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 172418.5/18

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:839880.4/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 1620187.6/47

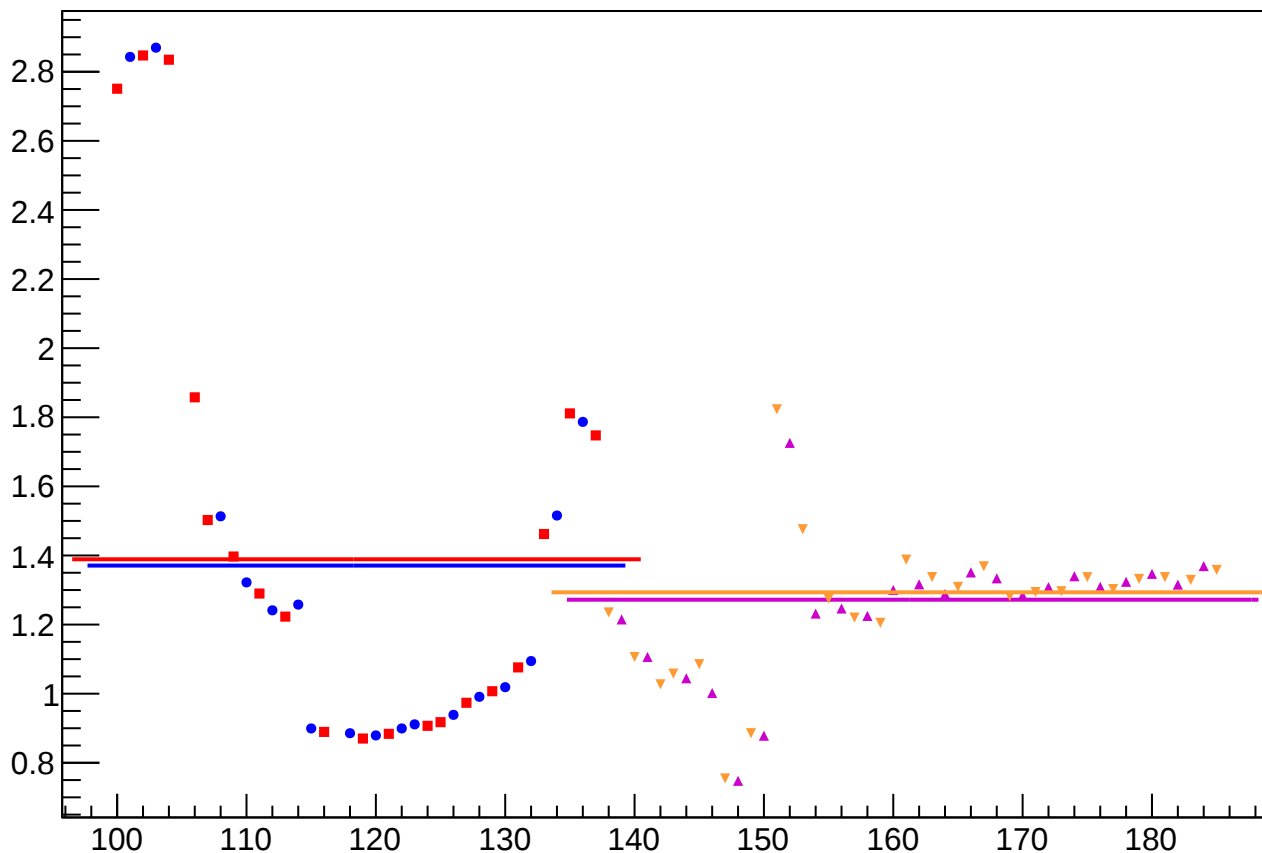
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 401140.2/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:1243256.3/39

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1139036.2/43

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2382478.4/83

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.371+/-0.000 χ^2/NDF : 54119122912.8/16

Left Out: 1.293+/-0.000 χ^2/NDF : 9220322872.6/24

Right Out: 1.389+/-0.000 χ^2/NDF : 49832414351.9/18

Left In: 1.272+/-0.000 χ^2/NDF : 7573930981.2/22

Left: 1.283+/-0.000 χ^2/NDF : 16852004986.9/47

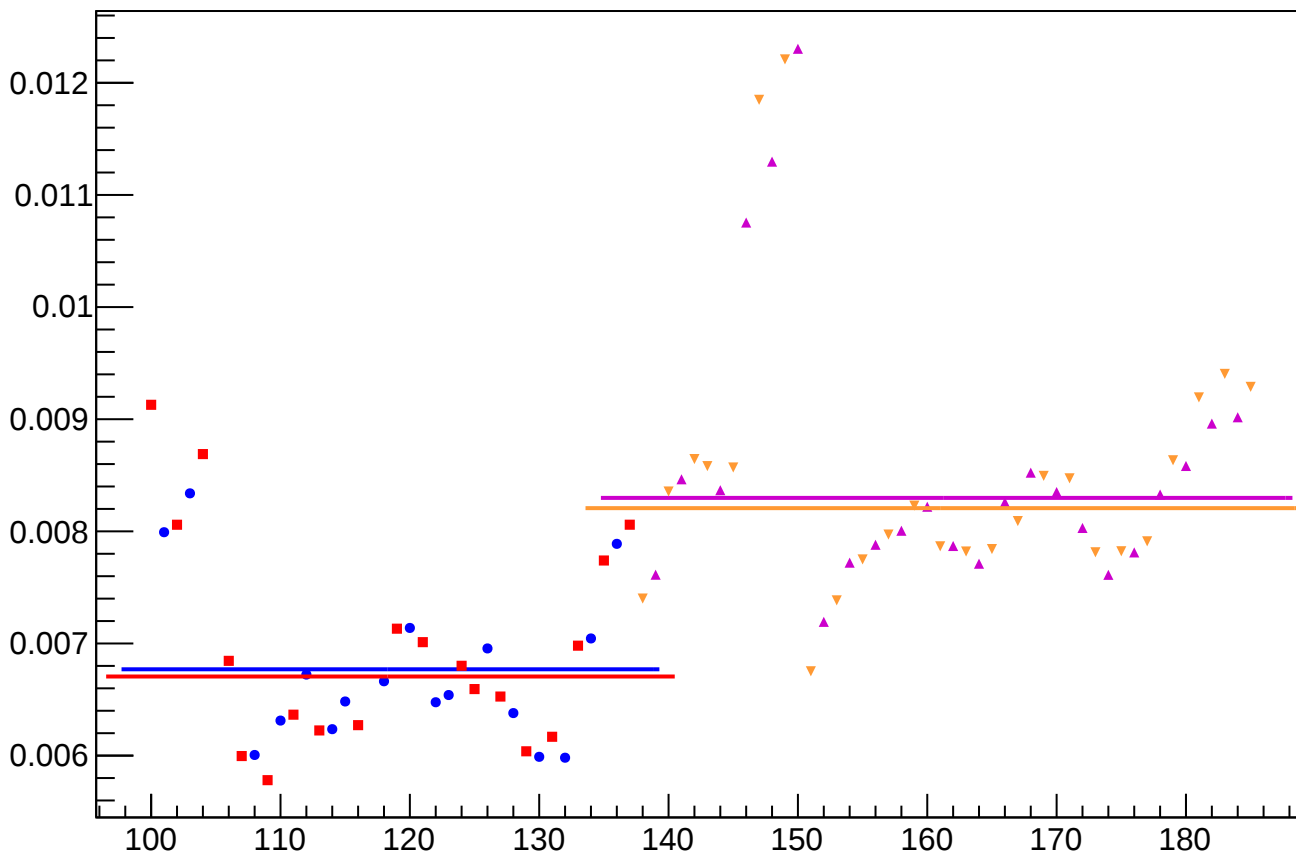
Right: 1.380+/-0.000 χ^2/NDF : 103976218990.2/35

In: 1.309+/-0.000 χ^2/NDF : 62575705535.5/39

Out: 1.329+/-0.000 χ^2/NDF : 59942405943.4/43

All: 1.319+/-0.000 χ^2/NDF : 122601061064.0

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 158743.1/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:478377.3/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 189225.3/18

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:462022.1/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 942508.9/47

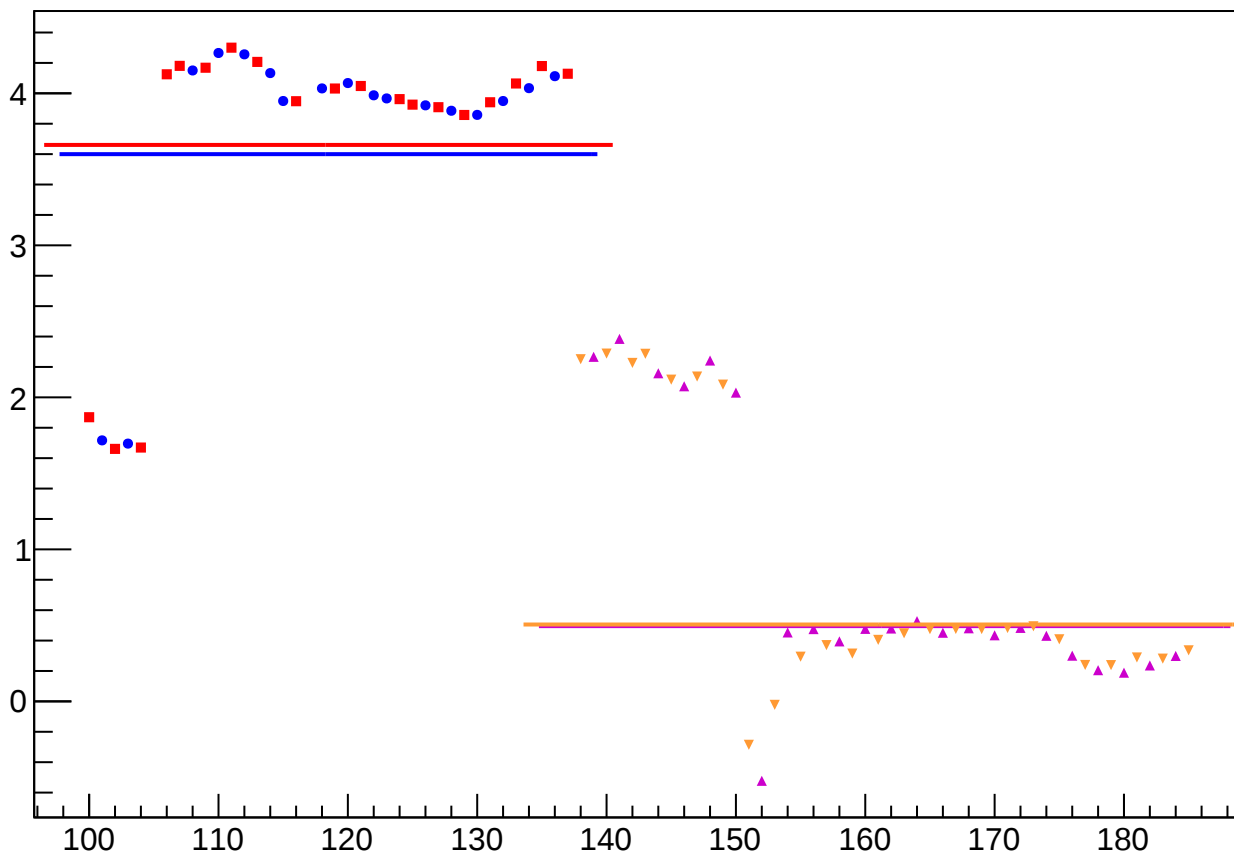
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 348586.5/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:1043229.3/39

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1106585.5/43

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2152600.3/83

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.600+/-0.000 χ^2/NDF : 185703271625.0/16

Left Out: 0.506+/-0.000 χ^2/NDF : 268764401488.0/24

Right Out: 3.661+/-0.000 χ^2/NDF : 192461584002.7/18

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.500+/-0.000 χ^2/NDF : 537671030012.8/47

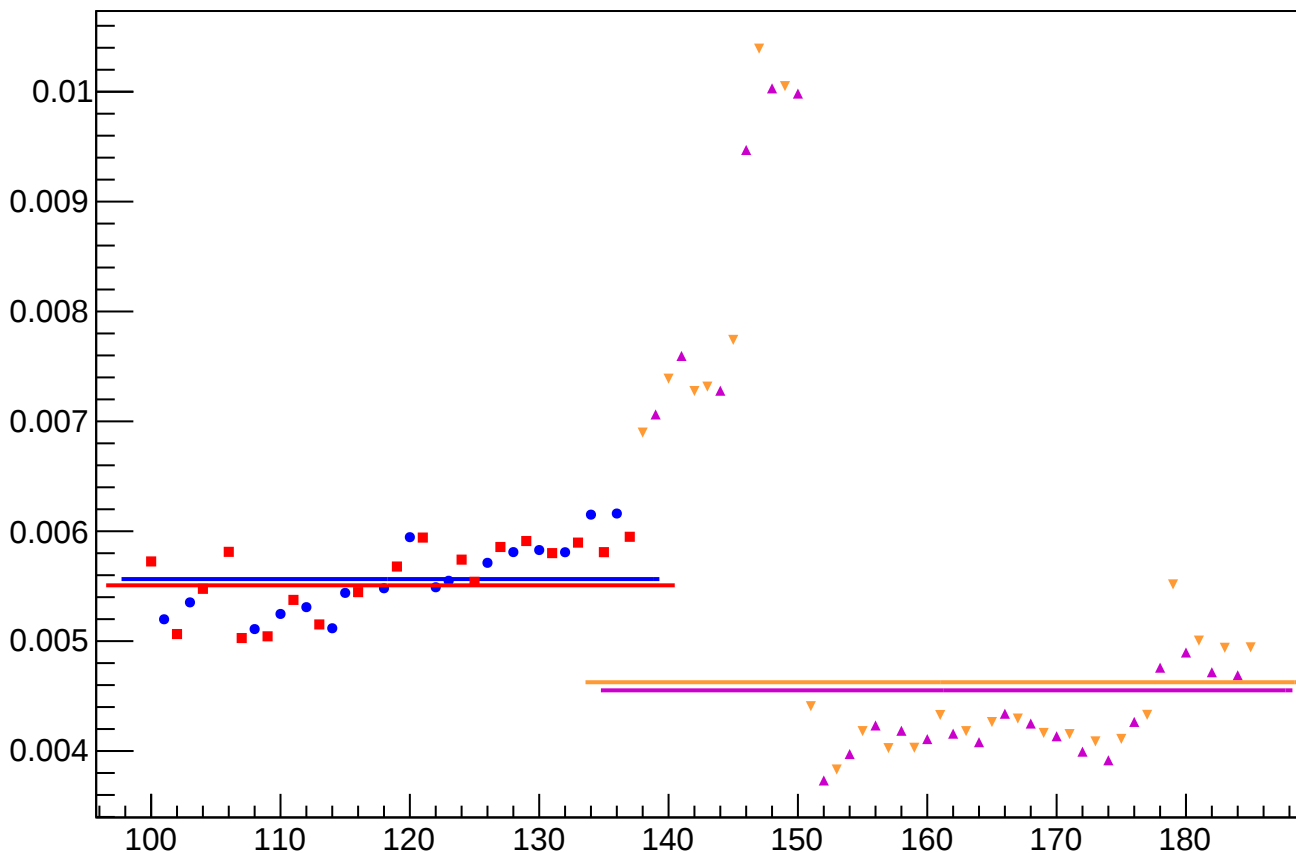
Right: 3.631+/-0.000 χ^2/NDF : 378573403824.4/35

In: 1.181+/-0.000 χ^2/NDF : 2069692334576.5/39

Out: 1.224+/-0.000 χ^2/NDF : 2217656929668.6/43

All: 1.203+/-0.000 χ^2/NDF : 4288262398914.

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 :2083061.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 52399.9/18

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4324890.4/47

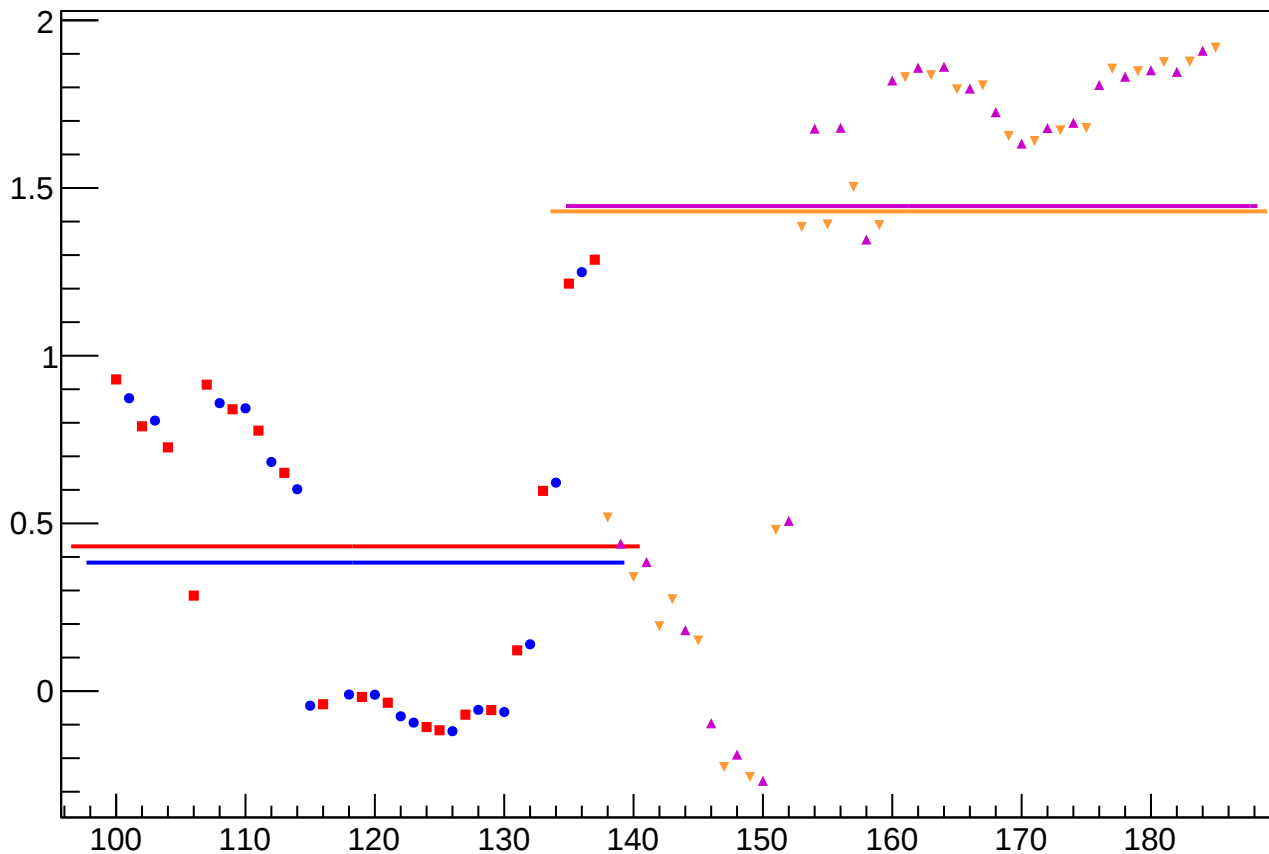
Right: 0.006+/-0.000 χ^2/NDF : 101204.4/35

In: 0.005+/-0.000 χ^2/NDF :2629412.2/39

Out: 0.005+/-0.000 χ^2/NDF :2410022.8/43

All: 0.005+/-0.000 χ^2/NDF : 5041979.9/83

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.383+/-0.000 χ^2/NDF : 7098148199.8/16

Left Out: 1.430+/-0.000 χ^2/NDF : 49392593768.5/24

Right Out: 0.431+/-0.000 χ^2/NDF : 6652460982.8/18

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.438+/-0.000 χ^2/NDF : 103162482870.6/47

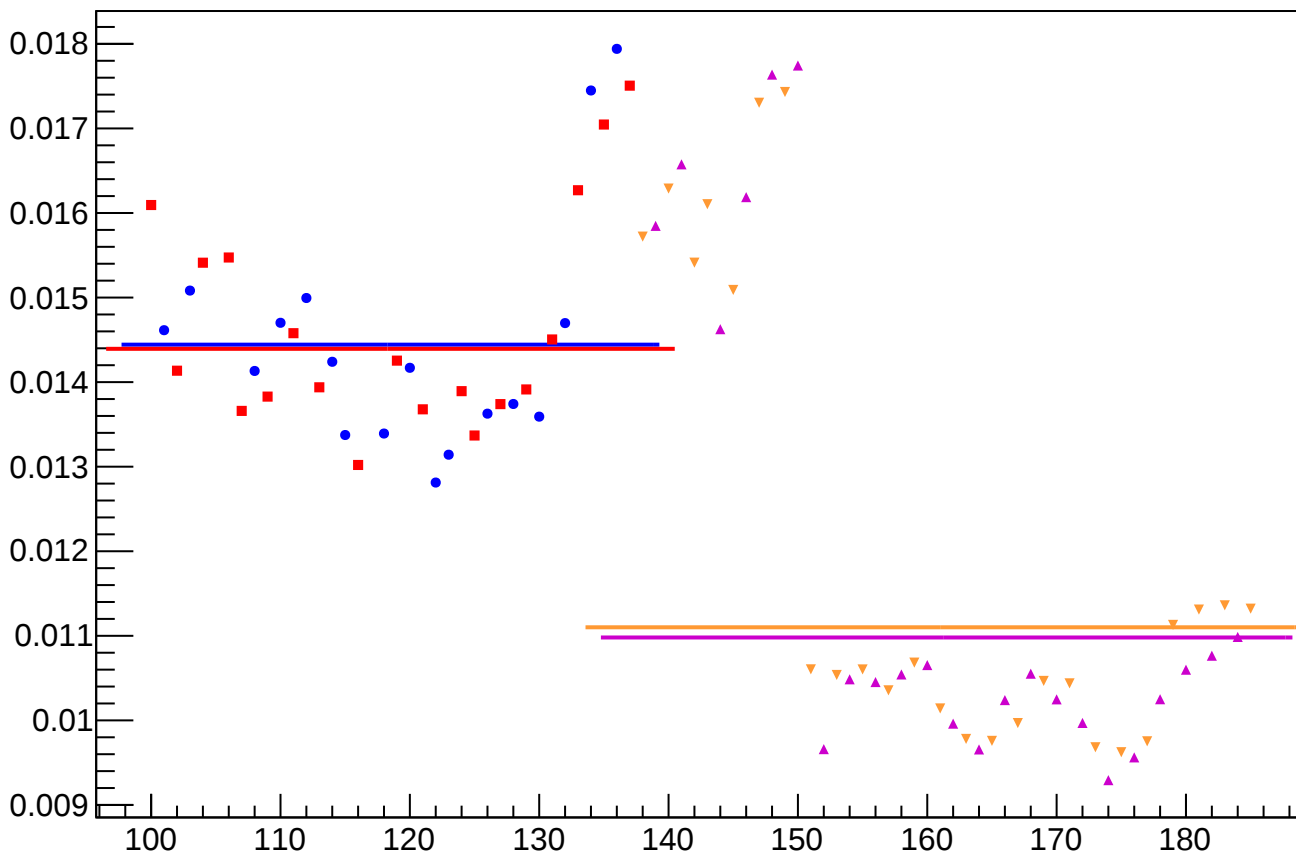
Right: 0.408+/-0.000 χ^2/NDF : 13788539120.9/35

In: 1.247+/-0.000 χ^2/NDF : 89910185176.6/39

Out: 1.240+/-0.000 χ^2/NDF : 83021364476.3/43

All: 1.243+/-0.000 χ^2/NDF : 172936135246.9

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 :1207922.5/24

Right Out: 0.014+/-0.000 χ^2/NDF : 74186.8/18

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2474775.6/47

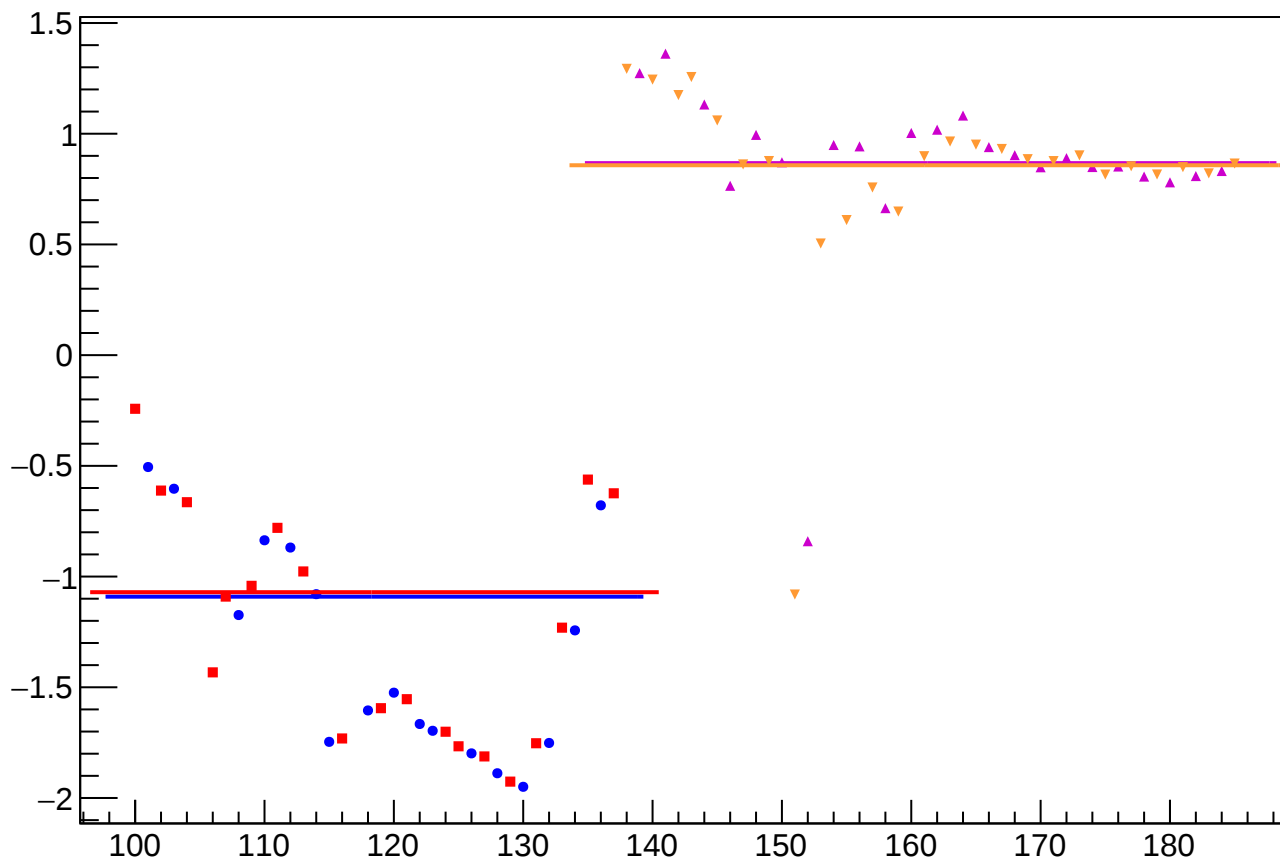
Right: 0.014+/-0.000 χ^2/NDF : 183683.0/35

In: 0.012+/-0.000 χ^2/NDF :1991025.7/39

Out: 0.012+/-0.000 χ^2/NDF :1868515.5/43

All: 0.012+/-0.000 χ^2/NDF : 3861272.0/83

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.091 ± 0.000 $\chi^2/\text{NDF}: 55542430282.4/16$

Left Out: 0.858 ± 0.000 $\chi^2/\text{NDF}: 125202216443.7/24$

Right Out: -1.071 ± 0.000 $\chi^2/\text{NDF}: 46725373904.4/18$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.862 ± 0.000 $\chi^2/\text{NDF}: 272297659678.3/47$

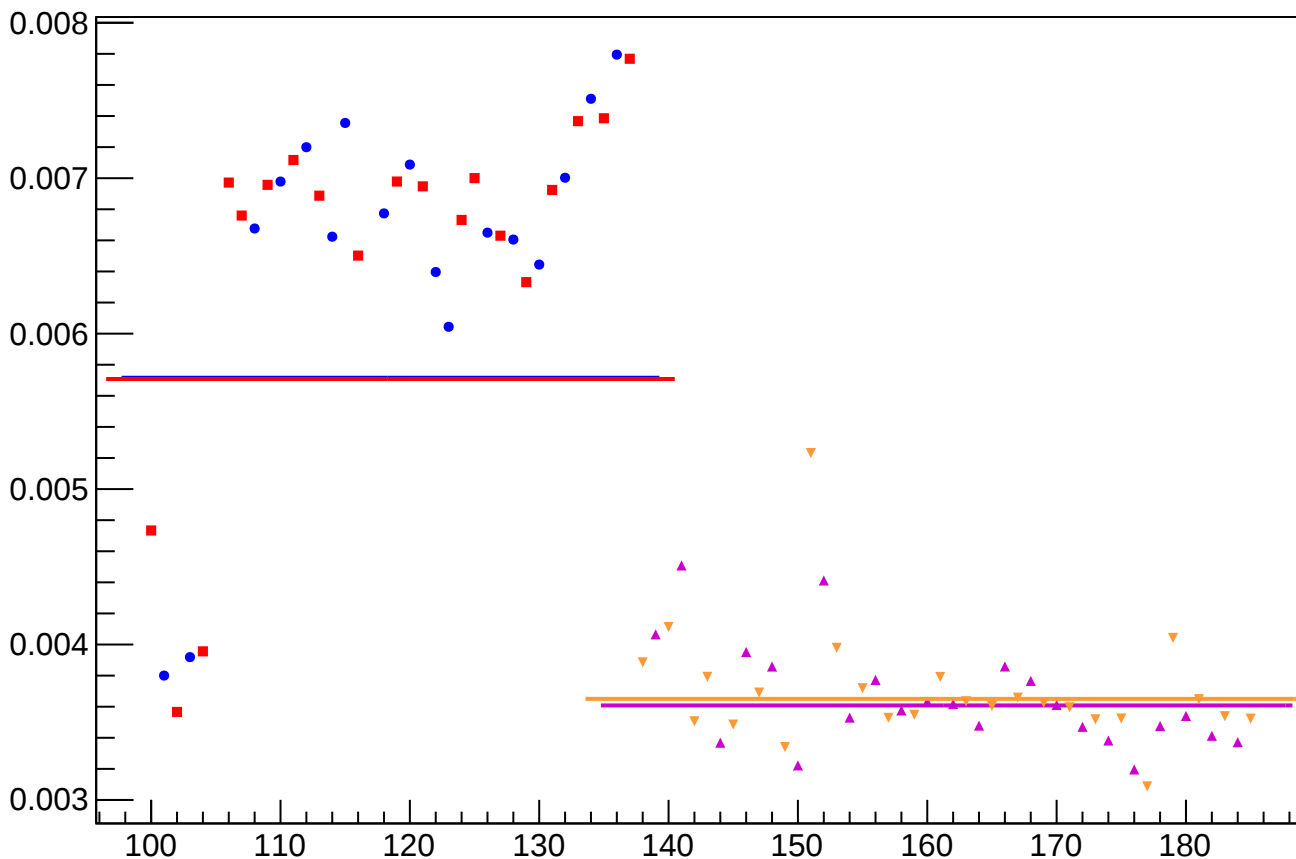
Right: -1.080 ± 0.000 $\chi^2/\text{NDF}: 102305472219.1/35$

In: 0.612 ± 0.000 $\chi^2/\text{NDF}: 805805326462.2/39$

Out: 0.604 ± 0.000 $\chi^2/\text{NDF}: 780591590905.5/43$

All: 0.608 ± 0.000 $\chi^2/\text{NDF}: 1586439043967.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 837929.9/16

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237134.4/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 921337.6/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 467185.0/47

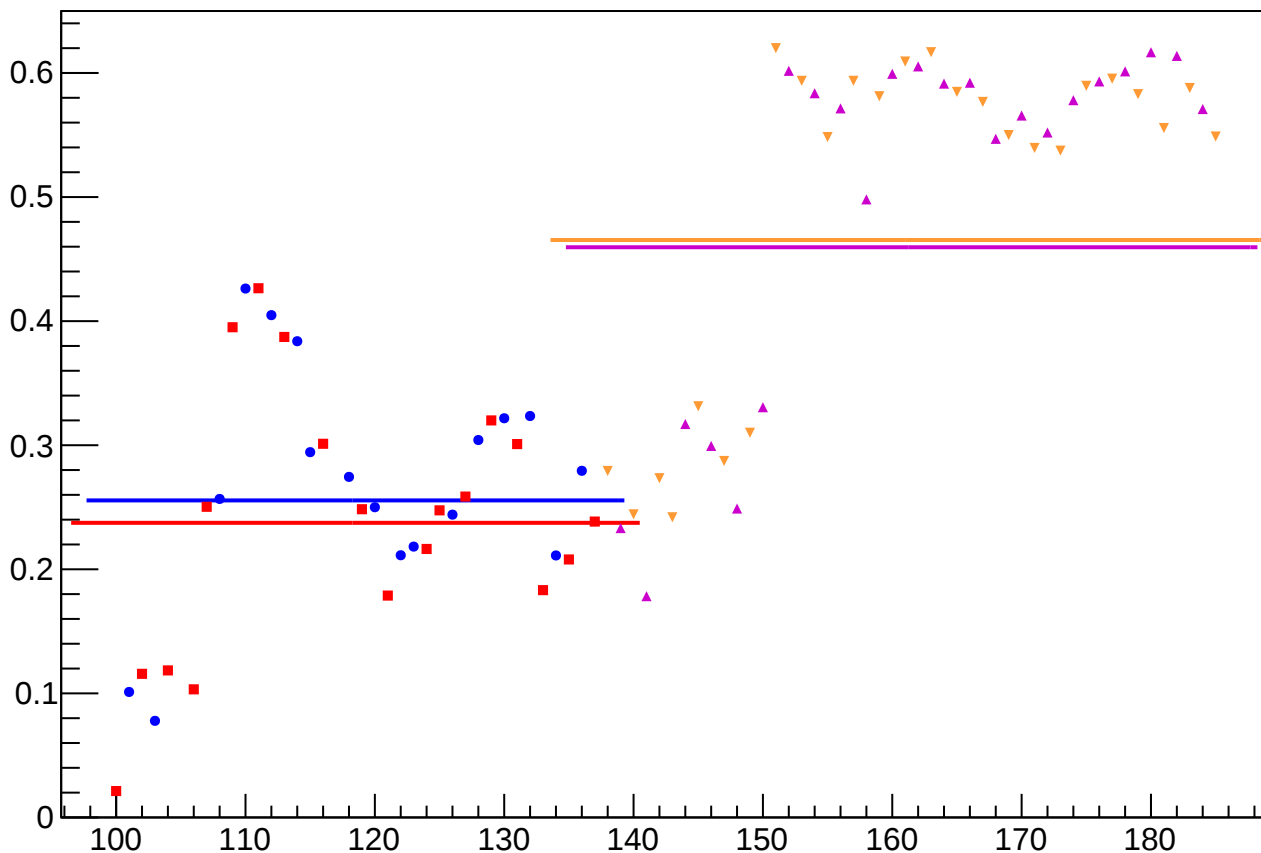
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 1759279.4/35

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2464352.7/39

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:2544987.3/43

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 5011365.1/83

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21303879000.5/16

Left Out: 0.465+/-0.000 χ^2/NDF : 99977160832.3/24

Right Out: 0.237+/-0.000 χ^2/NDF : 26048163947.8/18

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.463+/-0.000 χ^2/NDF : 204611101358.6/47

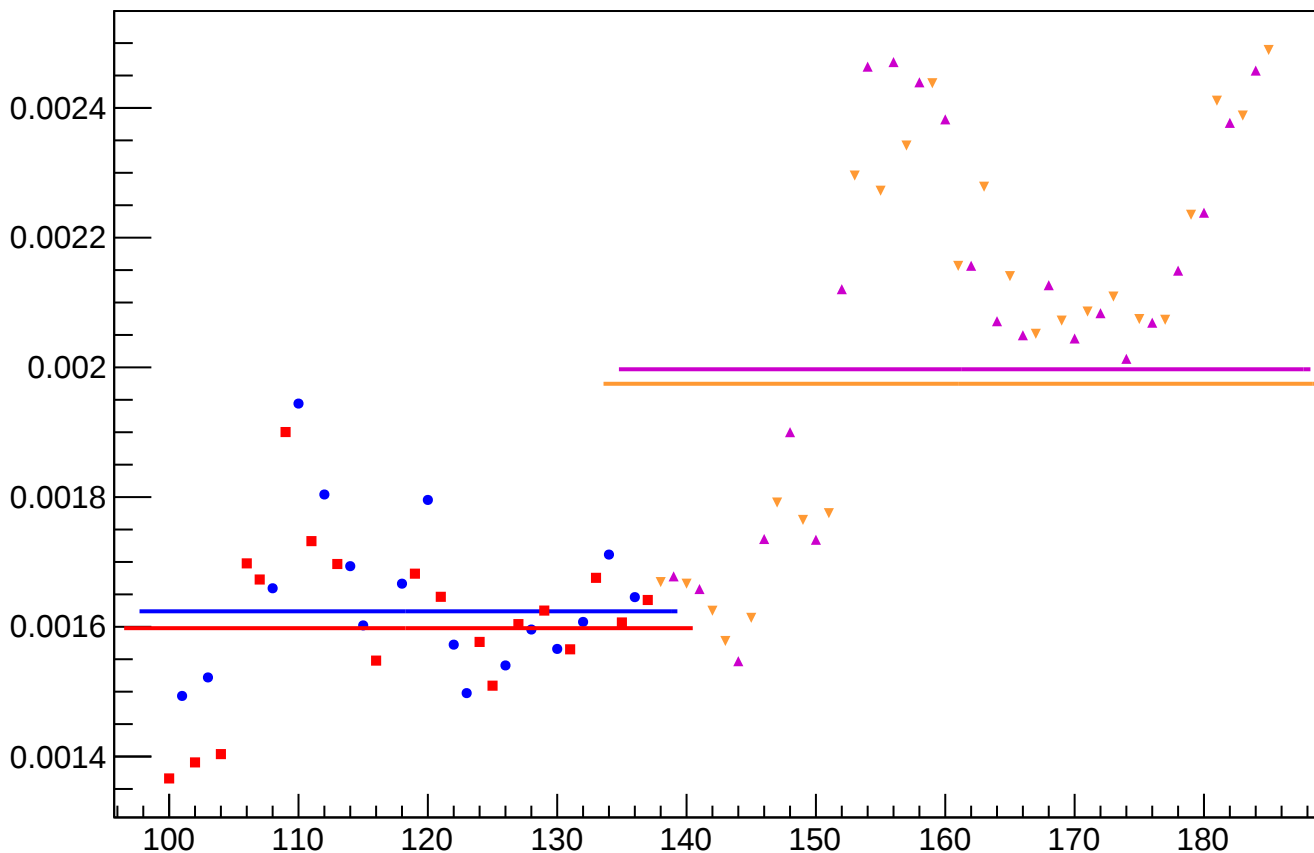
Right: 0.246+/-0.000 χ^2/NDF : 47770756724.0/35

In: 0.385+/-0.000 χ^2/NDF : 190061810545.8/39

Out: 0.380+/-0.000 χ^2/NDF : 214415849977.0/43

All: 0.382+/-0.000 χ^2/NDF : 404547078253.8

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 : 716646.6/24

Right Out: 0.002+/-0.000 χ^2/NDF : 90592.9/18

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1385237.4/47

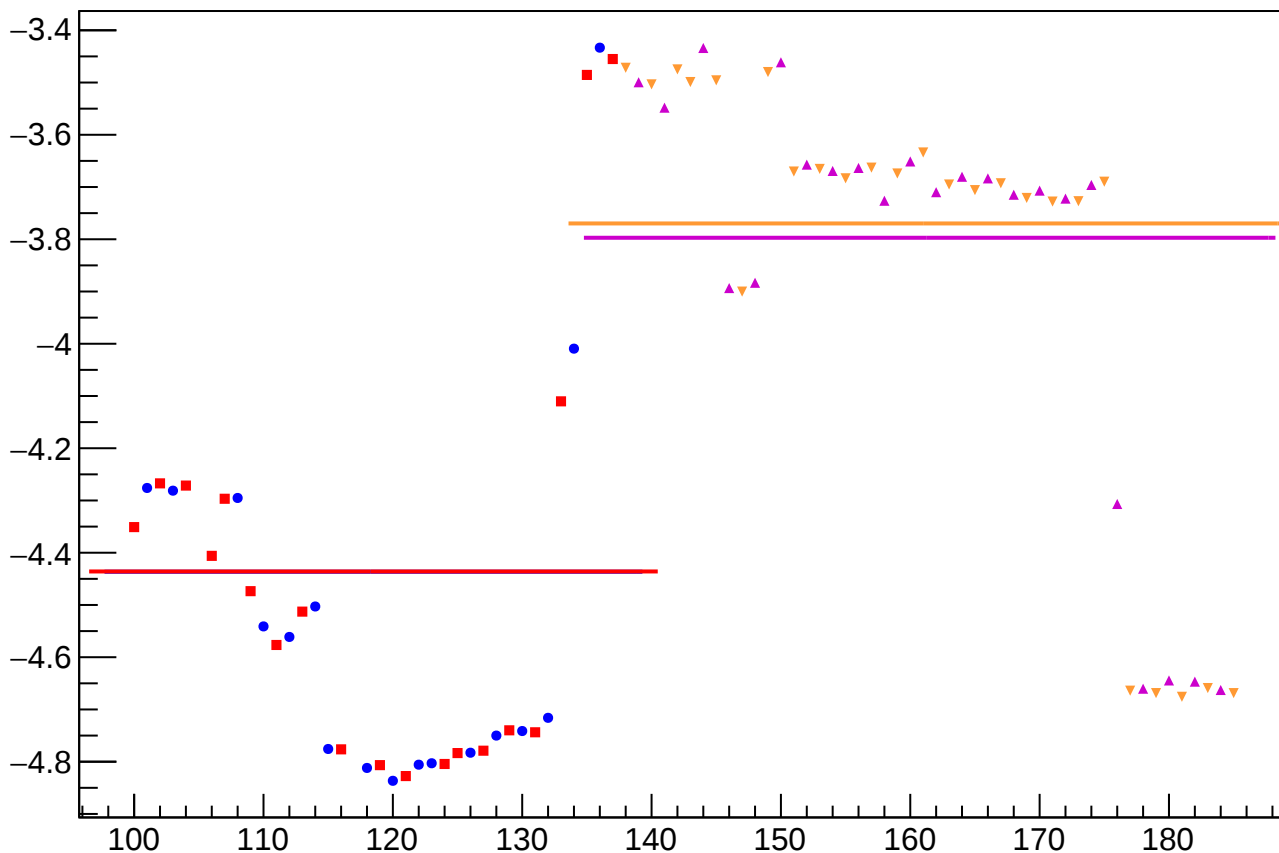
Right: 0.002+/-0.000 χ^2/NDF : 144677.8/35

In: 0.002+/-0.000 χ^2/NDF : 1148244.8/39

Out: 0.002+/-0.000 χ^2/NDF : 1290312.1/43

All: 0.002+/-0.000 χ^2/NDF : 2443346.0/83

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.436+/-0.000

χ^2/NDF : 392479534987.2/16

Left: -3.783+/-0.000

χ^2/NDF : 960725264477.3/47

Left Out: -3.770+/-0.000

χ^2/NDF : 514463329931.5/24

Right: -4.436+/-0.000

χ^2/NDF : 717422111284.2/35

Right Out: -4.436+/-0.000

χ^2/NDF : 324942318404.0/18

In: -4.027+/-0.000

χ^2/NDF : 1358855337405.3/39

Out: -4.009+/-0.000

χ^2/NDF : 1442797029840.2/43

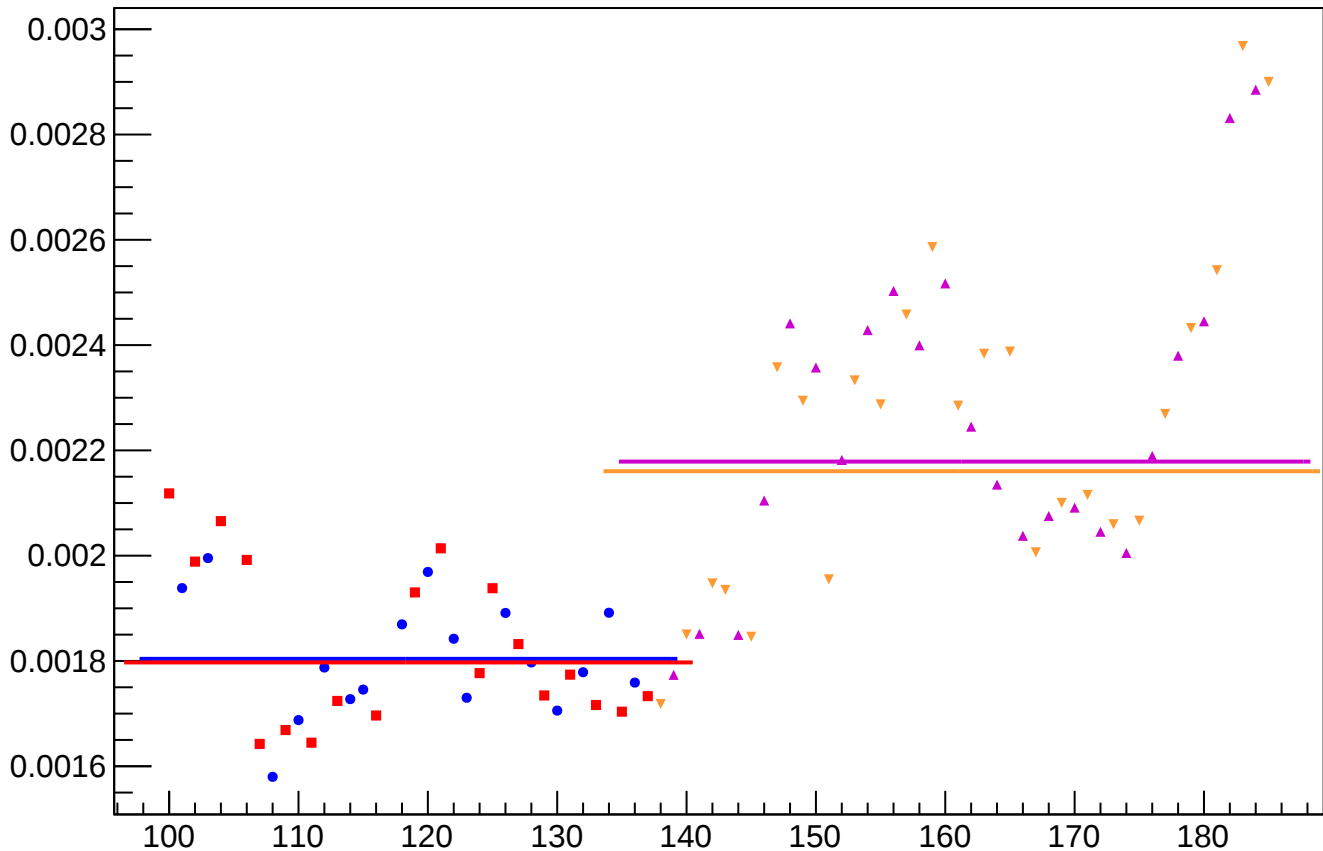
Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

All: -4.018+/-0.000

χ^2/NDF : 2802582722378

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 :547610.6/24

Right Out: 0.002+/-0.000 χ^2/NDF : 80681.9/18

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012118.7/47

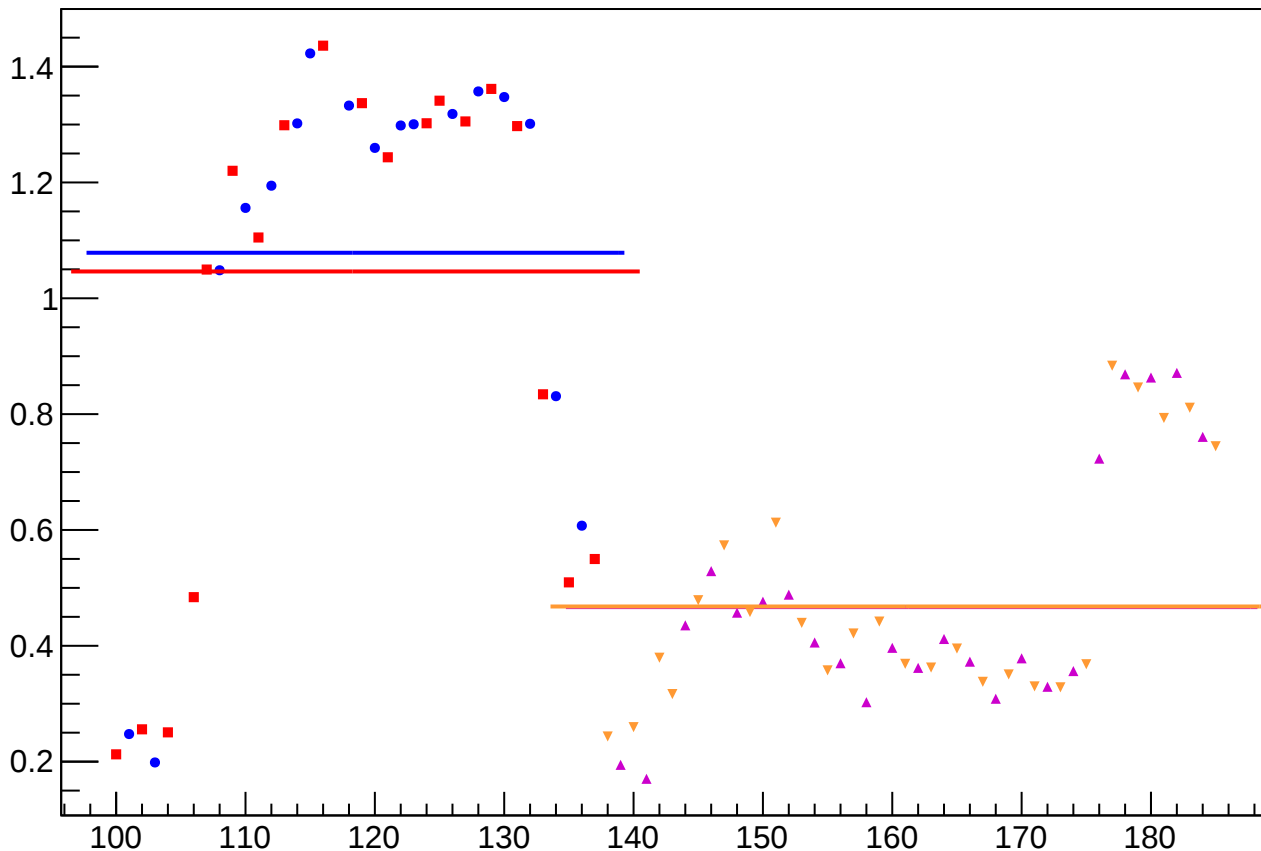
Right: 0.002+/-0.000 χ^2/NDF : 128836.7/35

In: 0.002+/-0.000 χ^2/NDF :869745.1/39

Out: 0.002+/-0.000 χ^2/NDF :987044.7/43

All: 0.002+/-0.000 χ^2/NDF : 1857910.6/83

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.079+/-0.000 χ^2/NDF : 17504335724.9/16

Left Out: 0.468+/-0.000 χ^2/NDF : 7328309222.3/24

Right Out: 1.046+/-0.000 χ^2/NDF : 19655971884.7/18

Left In: 0.467+/-0.000 χ^2/NDF : 8036741308.0/22

Left: 0.467+/-0.000 χ^2/NDF : 15365161704.2/47

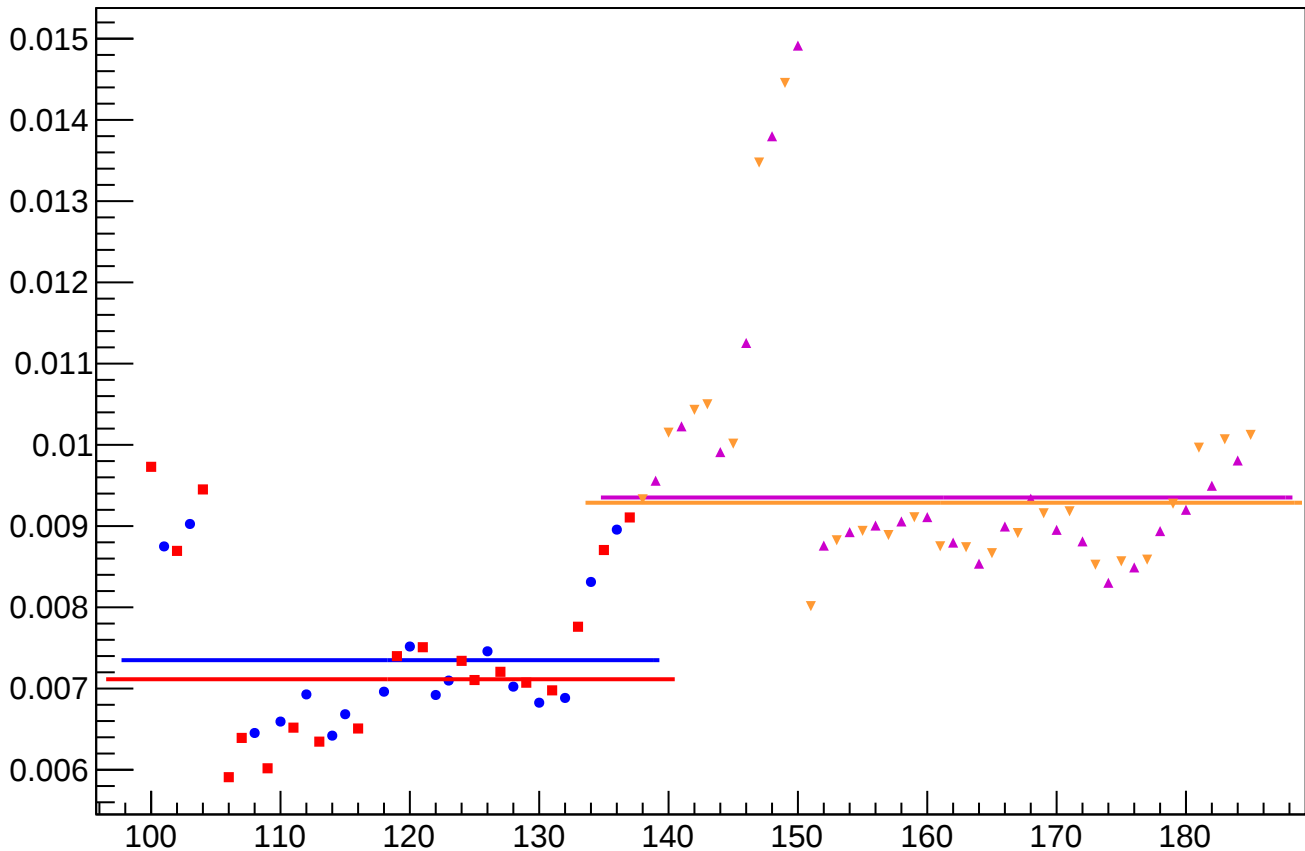
Right: 1.062+/-0.000 χ^2/NDF : 37227658553.8/35

In: 0.703+/-0.000 χ^2/NDF : 53574656408.2/39

Out: 0.698+/-0.000 χ^2/NDF : 54665519530.0/43

All: 0.700+/-0.000 χ^2/NDF : 108243796132.1

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 : 525724.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 259361.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1084117.3/47

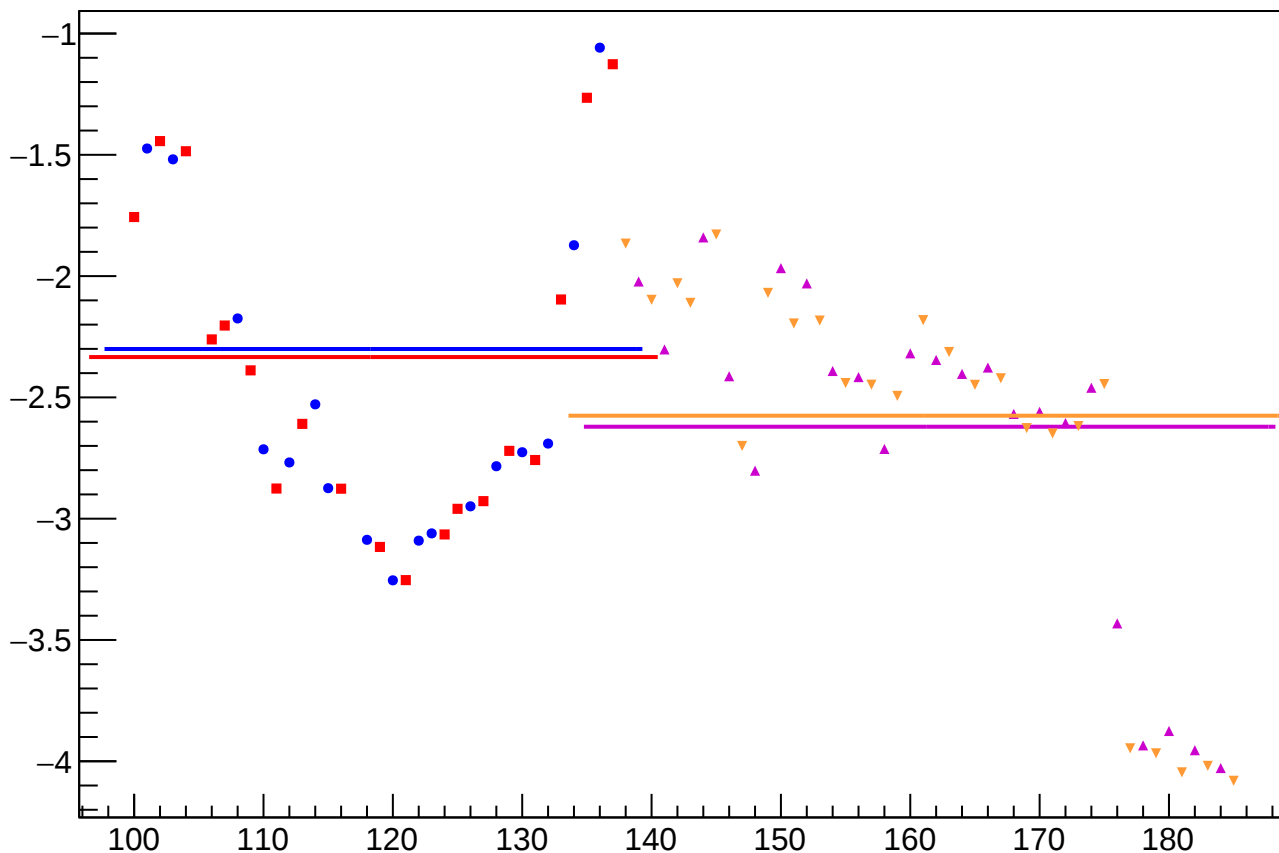
Right: 0.007+/-0.000 χ^2/NDF : 447348.1/35

In: 0.009+/-0.000 χ^2/NDF : 1339210.6/39

Out: 0.008+/-0.000 χ^2/NDF : 1566266.3/43

All: 0.008+/-0.000 χ^2/NDF : 2913608.9/83

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.300+/-0.000 χ^2/NDF : 73601400403.2/16

Left Out: -2.575+/-0.000 χ^2/NDF : 98875133674.6/24

Right Out: -2.334+/-0.000 χ^2/NDF : 64343197509.4/18

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 179976342674.4/47

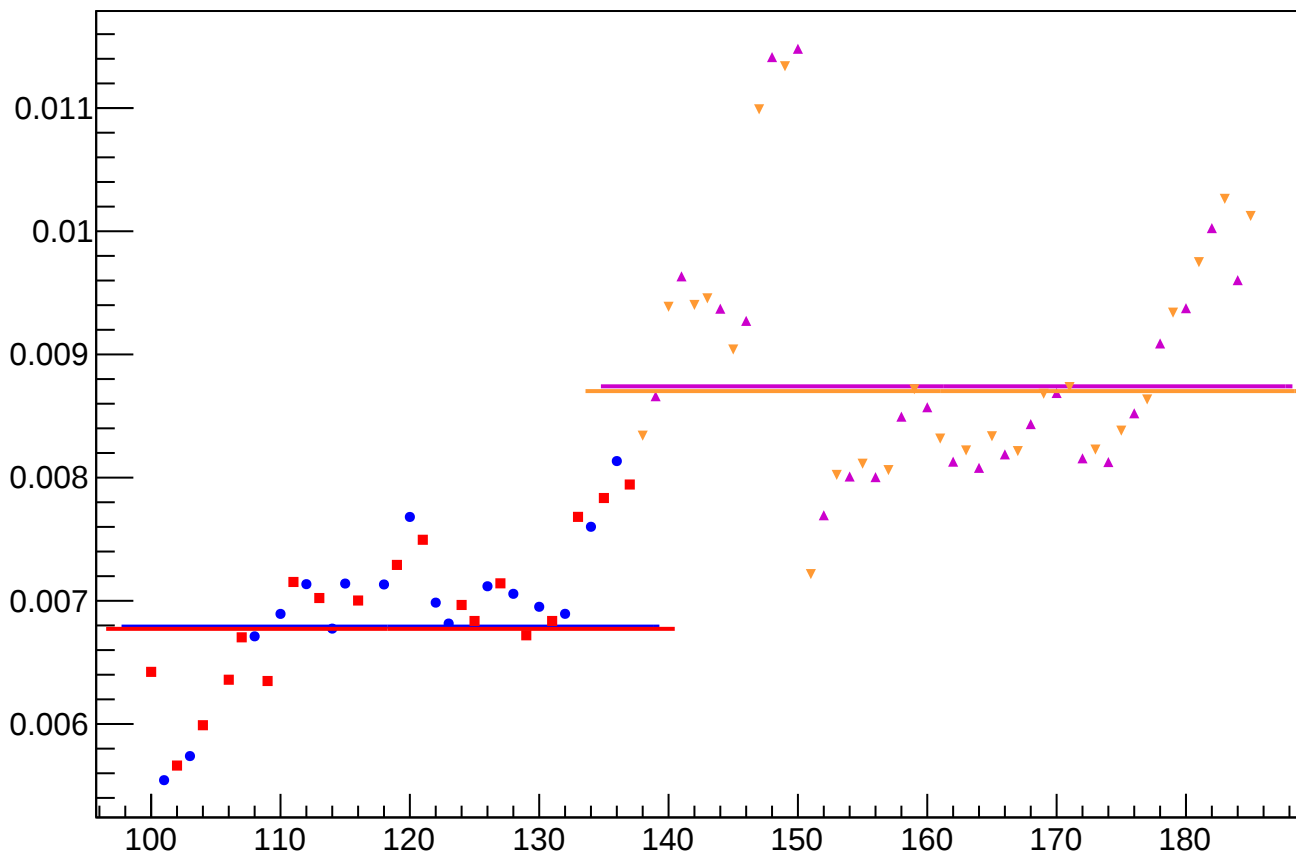
Right: -2.318+/-0.000 χ^2/NDF : 138026475465.9/35

In: -2.496+/-0.000 χ^2/NDF : 163448036744.6/39

Out: -2.481+/-0.000 χ^2/NDF : 168673153079.5/43

All: -2.488+/-0.000 χ^2/NDF : 332164379533.6

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 : 367064.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 123254.7/18

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 721163.7/47

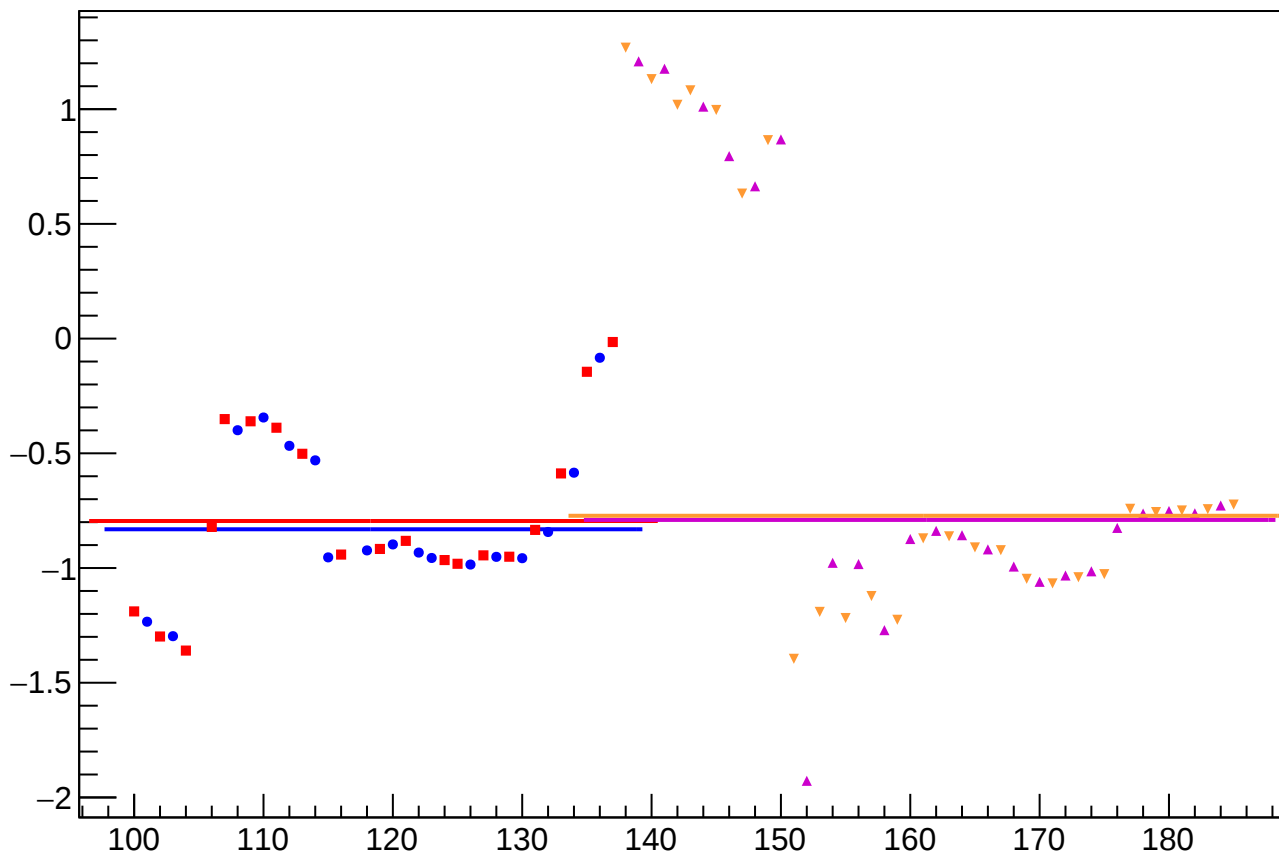
Right: 0.007+/-0.000 χ^2/NDF : 289102.2/35

In: 0.008+/-0.000 χ^2/NDF : 1185214.6/39

Out: 0.008+/-0.000 χ^2/NDF : 1185495.0/43

All: 0.008+/-0.000 χ^2/NDF : 2371134.4/83

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6684927415.2/16

Left: -0.781+/-0.000

χ^2/NDF : 242011477126.0/47

Left Out: -0.772+/-0.000

χ^2/NDF : 118513600262.2/24

Right: -0.813+/-0.000

χ^2/NDF : 14539681637.1/35

Right Out: -0.795+/-0.000

χ^2/NDF : 7817248130.7/18

In: -0.797+/-0.000

χ^2/NDF : 130214745459.8/39

Out: -0.776+/-0.000

χ^2/NDF : 126356488206.9/43

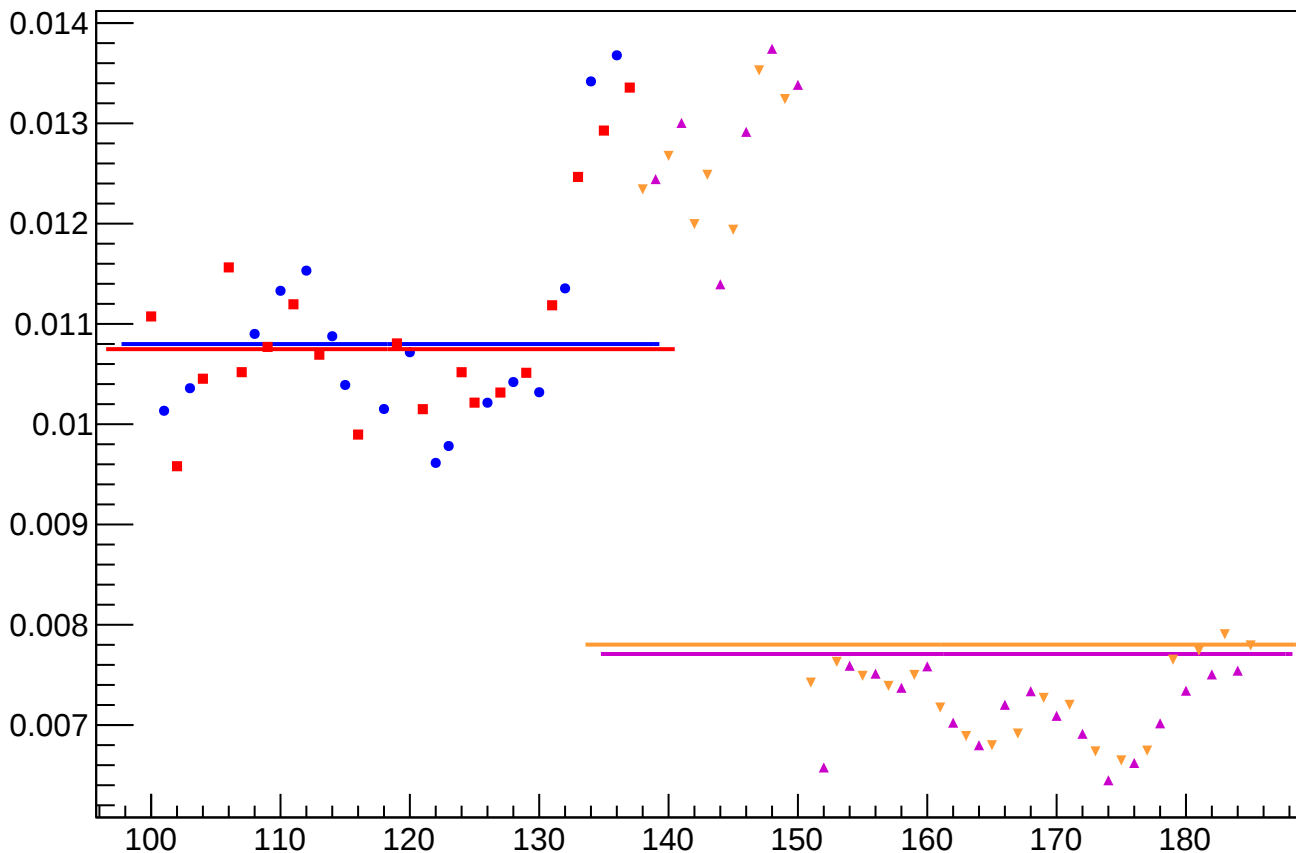
Left In: -0.790+/-0.000

χ^2/NDF : 123452478408.2/22

All: -0.787+/-0.000

χ^2/NDF : 256645644422.4

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 :1676549.4/24

Right Out: 0.011+/-0.000 χ^2/NDF : 89612.1/18

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3425623.8/47

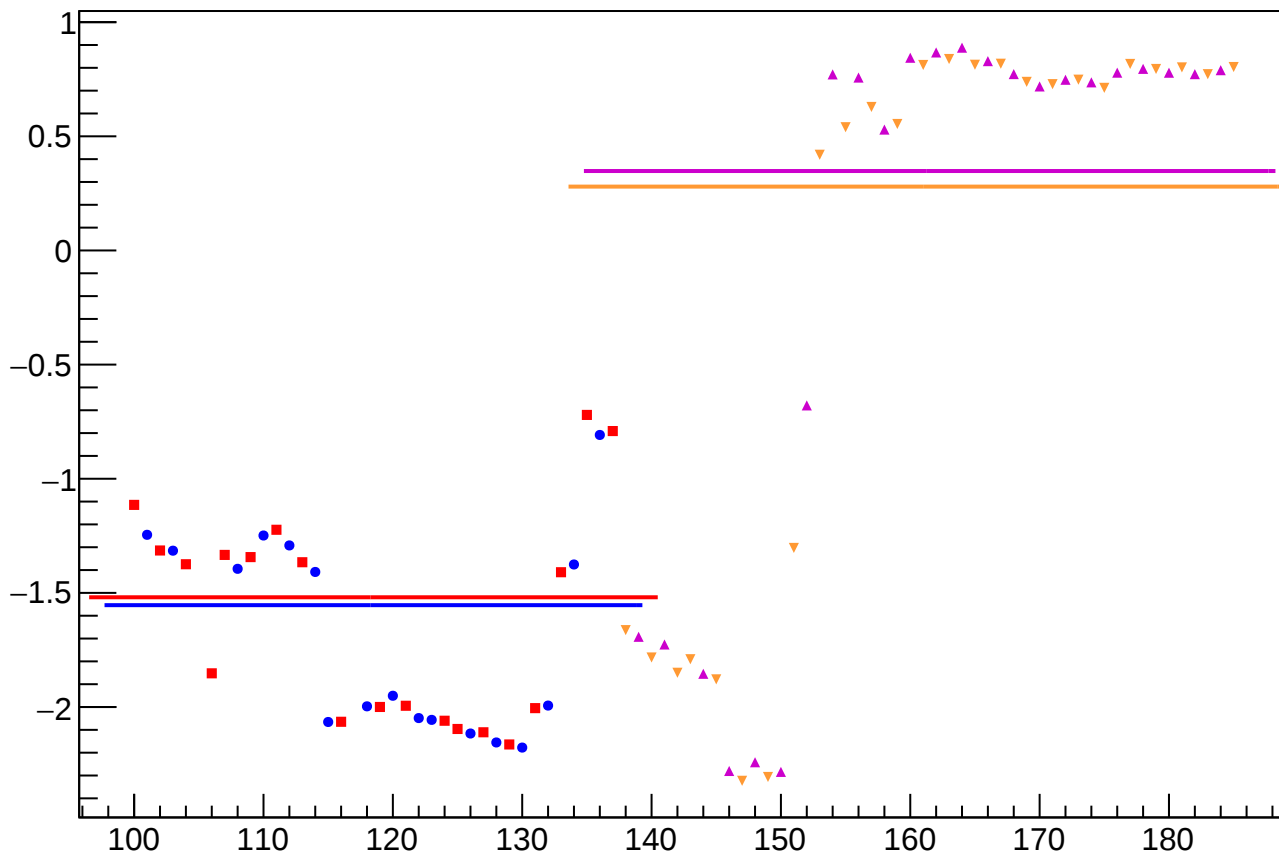
Right: 0.011+/-0.000 χ^2/NDF : 214573.0/35

In: 0.008+/-0.000 χ^2/NDF :2760653.6/39

Out: 0.008+/-0.000 χ^2/NDF :2618660.3/43

All: 0.008+/-0.000 χ^2/NDF : 5381444.7/83

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.554+/-0.000 χ^2/NDF : 153751208532.9/16

Left Out: 0.280+/-0.000 χ^2/NDF : 2533555620281.6/24

Right Out: -1.519+/-0.000 χ^2/NDF : 138061021403.9/18

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.313+/-0.000 χ^2/NDF : 4813488008621.1/47

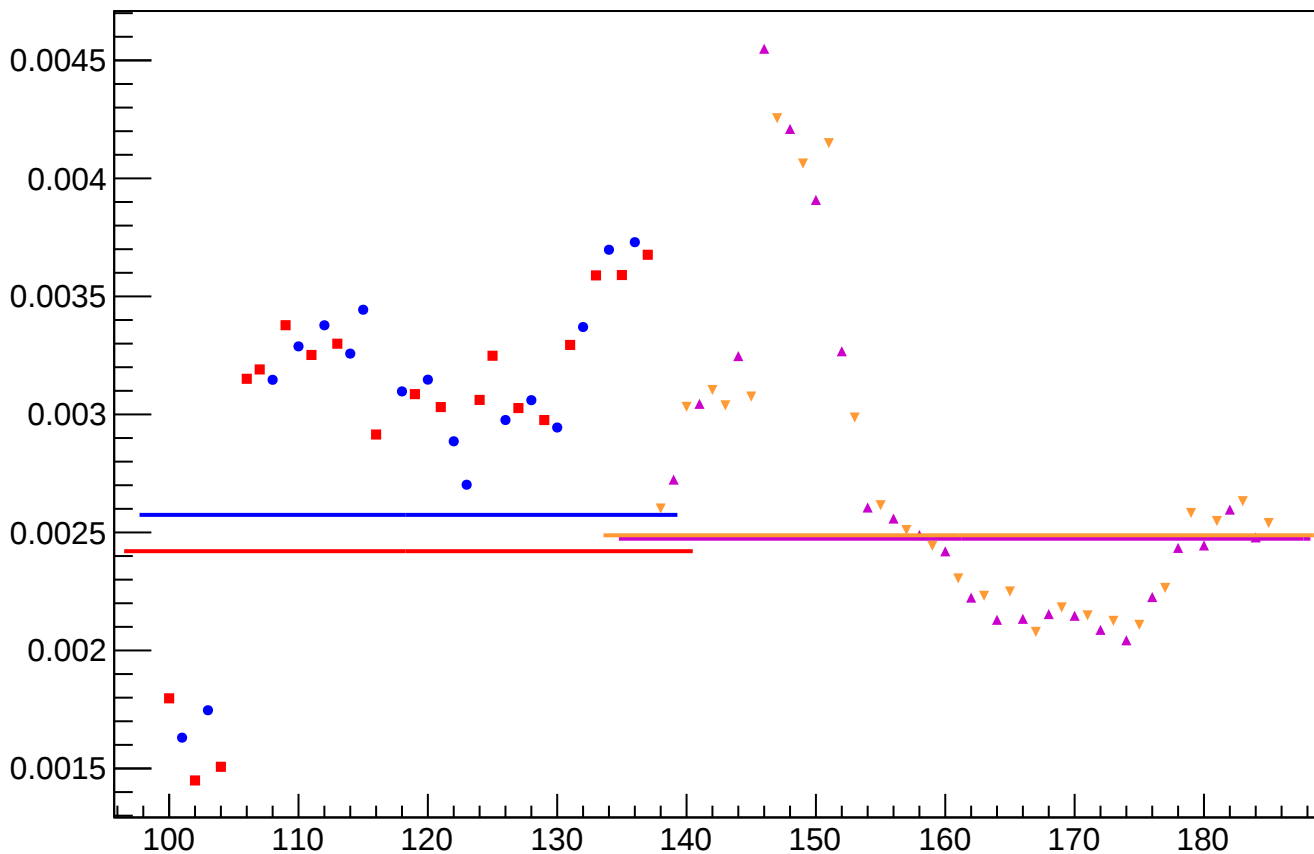
Right: -1.535+/-0.000 χ^2/NDF : 292351096405.8/35

In: -0.137+/-0.000 χ^2/NDF : 4717469165700.5/39

Out: -0.206+/-0.000 χ^2/NDF : 4950960312927.7/43

All: -0.173+/-0.000 χ^2/NDF : 9676584366379

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013543.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :1064912.2/24

Right Out: 0.002+/-0.000 χ^2/NDF : 1484766.5/18

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2200726.3/47

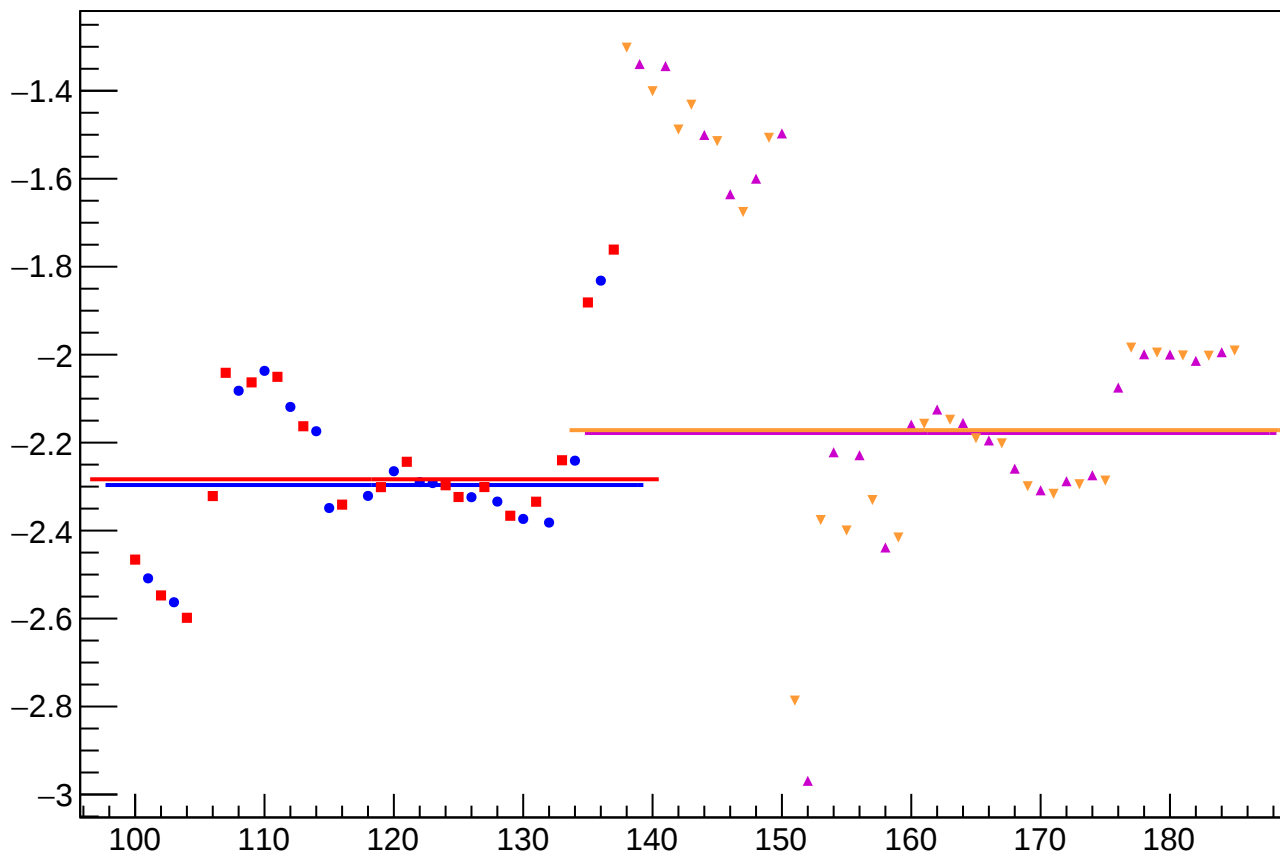
Right: 0.002+/-0.000 χ^2/NDF : 2519697.5/35

In: 0.002+/-0.000 χ^2/NDF :2161744.6/39

Out: 0.002+/-0.000 χ^2/NDF :2556062.5/43

All: 0.002+/-0.000 χ^2/NDF : 4720796.4/83

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000

χ^2/NDF : 5781445779.2/16

Left: -2.175+/-0.000

χ^2/NDF : 132645757608.6/47

Left Out: -2.172+/-0.000

χ^2/NDF : 59228543002.3/24

Right: -2.290+/-0.000

χ^2/NDF : 12342526597.5/35

Right Out: -2.283+/-0.000

χ^2/NDF : 6547805693.1/18

In: -2.198+/-0.000

χ^2/NDF : 80936013661.2/39

Out: -2.191+/-0.000

χ^2/NDF : 67423623994.2/43

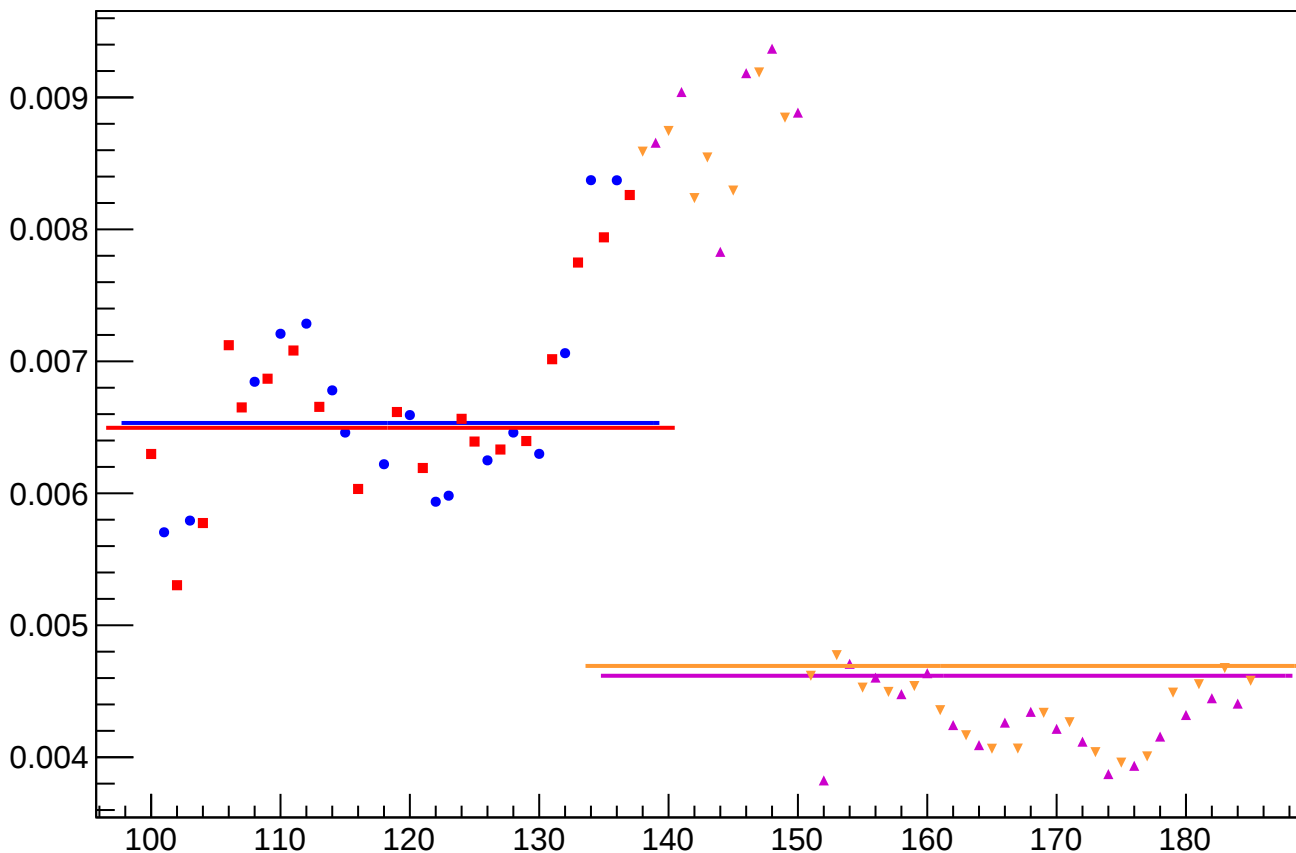
Left In: -2.178+/-0.000

χ^2/NDF : 73402051113.3/22

All: -2.195+/-0.000

χ^2/NDF : 148381830810.4

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 :2276437.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 163206.3/18

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4647993.9/47

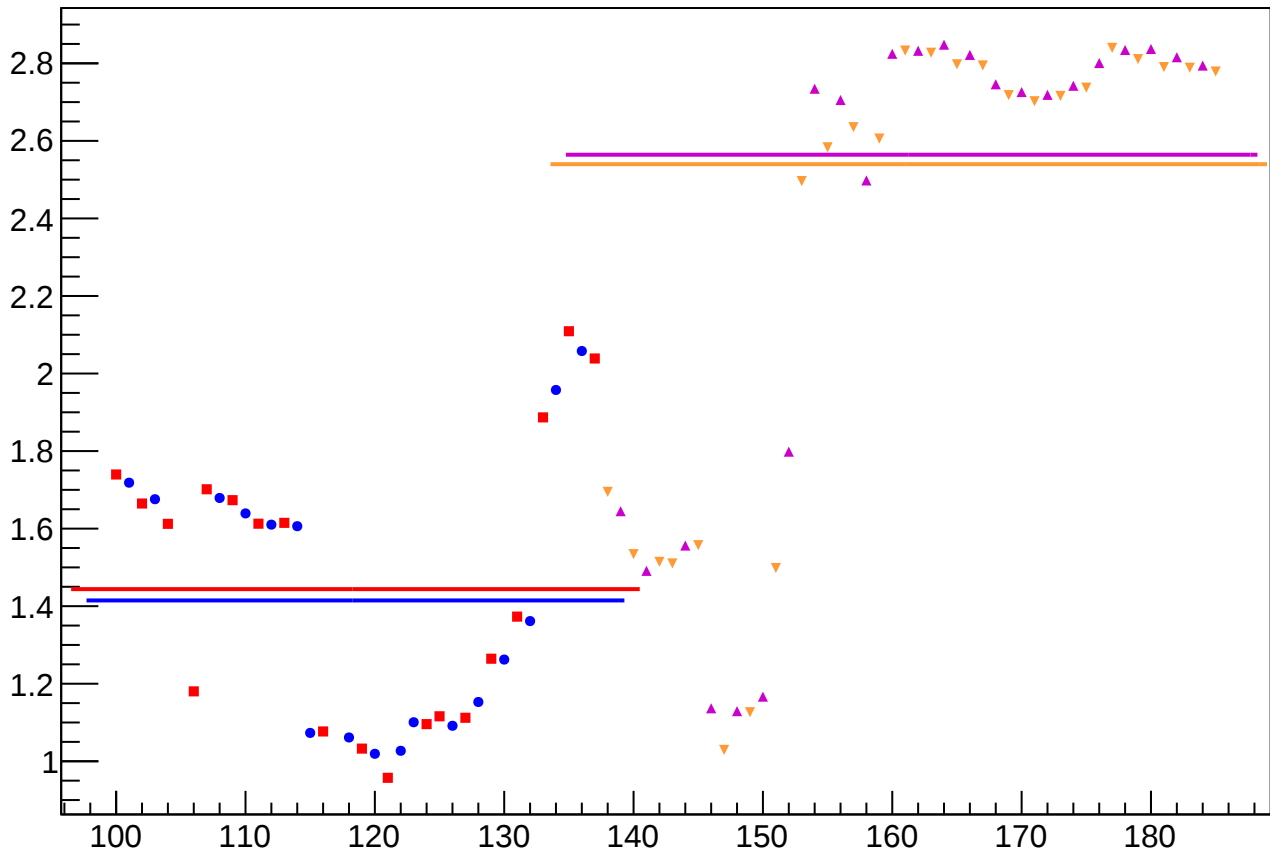
Right: 0.007+/-0.000 χ^2/NDF : 339006.1/35

In: 0.005+/-0.000 χ^2/NDF :3461518.6/39

Out: 0.005+/-0.000 χ^2/NDF :3300025.1/43

All: 0.005+/-0.000 χ^2/NDF : 6765171.0/83

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.415+/-0.000 χ^2/NDF : 171733730631.9/16

Left Out: 2.540+/-0.000 χ^2/NDF : 265251970465.9/24

Right Out: 1.444+/-0.000 χ^2/NDF : 172869416198.6/18

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.552+/-0.000 χ^2/NDF : 525913092407.6/47

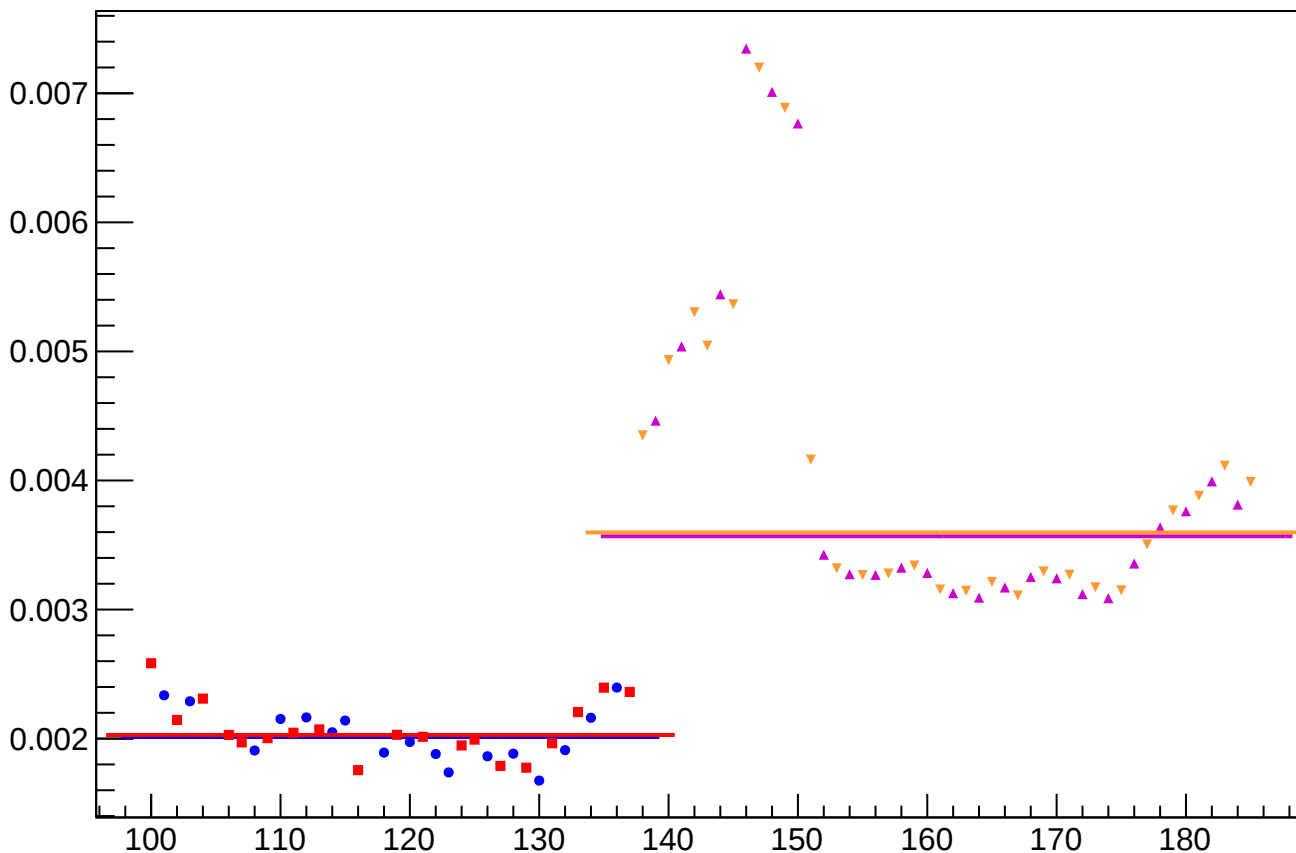
Right: 1.430+/-0.000 χ^2/NDF : 345262431703.8/35

In: 1.929+/-0.000 χ^2/NDF : 1328115245059.8/39

Out: 1.937+/-0.000 χ^2/NDF : 1286926400216.5/43

All: 1.933+/-0.000 χ^2/NDF : 2615133604516.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 149372.5/16

Left Out: 0.004+/-0.000 χ^2/NDF :1391649.1/24

Right Out: 0.002+/-0.000 χ^2/NDF : 102976.0/18

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2955765.3/47

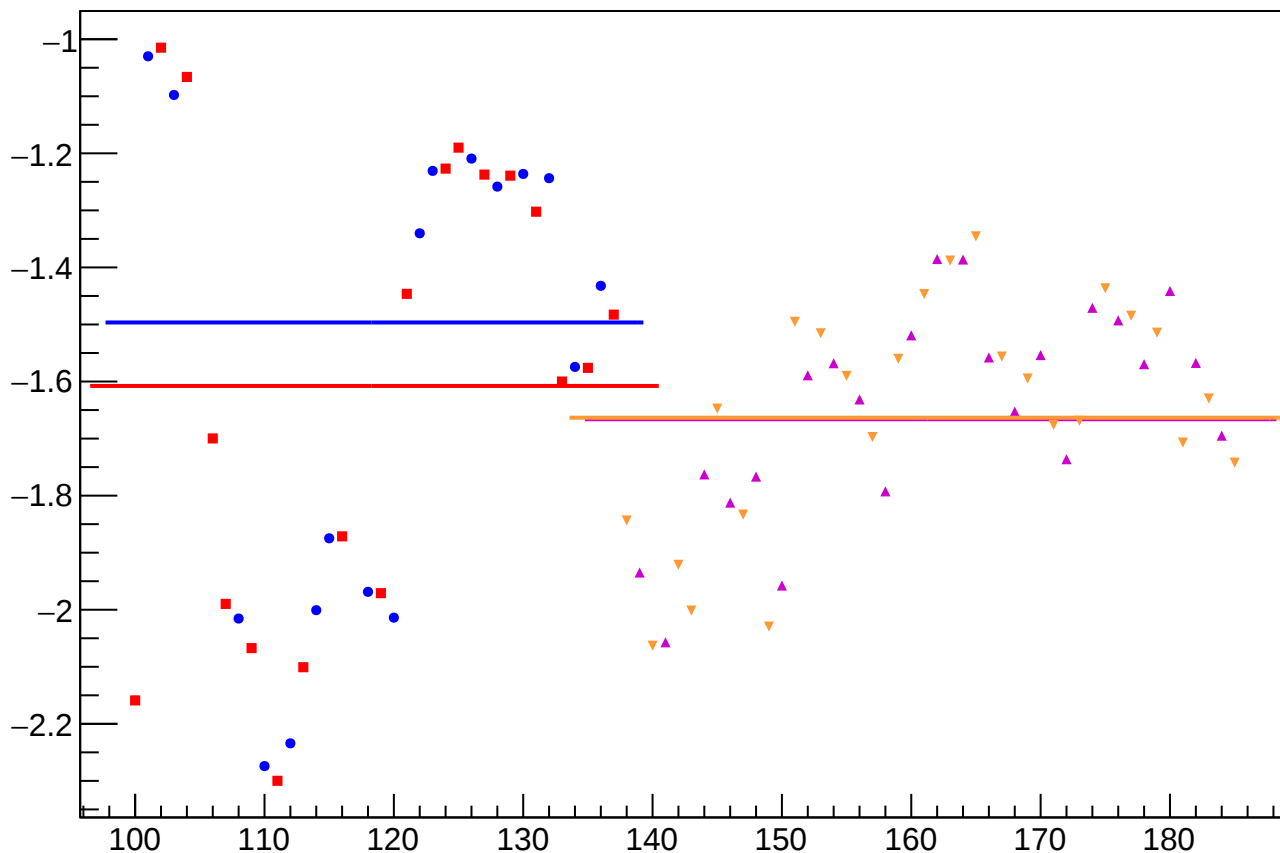
Right: 0.002+/-0.000 χ^2/NDF : 252720.4/35

In: 0.003+/-0.000 χ^2/NDF :4992746.8/39

Out: 0.003+/-0.000 χ^2/NDF :4974862.0/43

All: 0.003+/-0.000 χ^2/NDF : 9969475.3/83

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22480434073.3/16

Left Out: -1.663+/-0.000 χ^2/NDF : 17942489885.9/24

Right Out: -1.608+/-0.000 χ^2/NDF : 27825836681.8/18

Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

Left: -1.665+/-0.000 χ^2/NDF : 32236668096.5/47

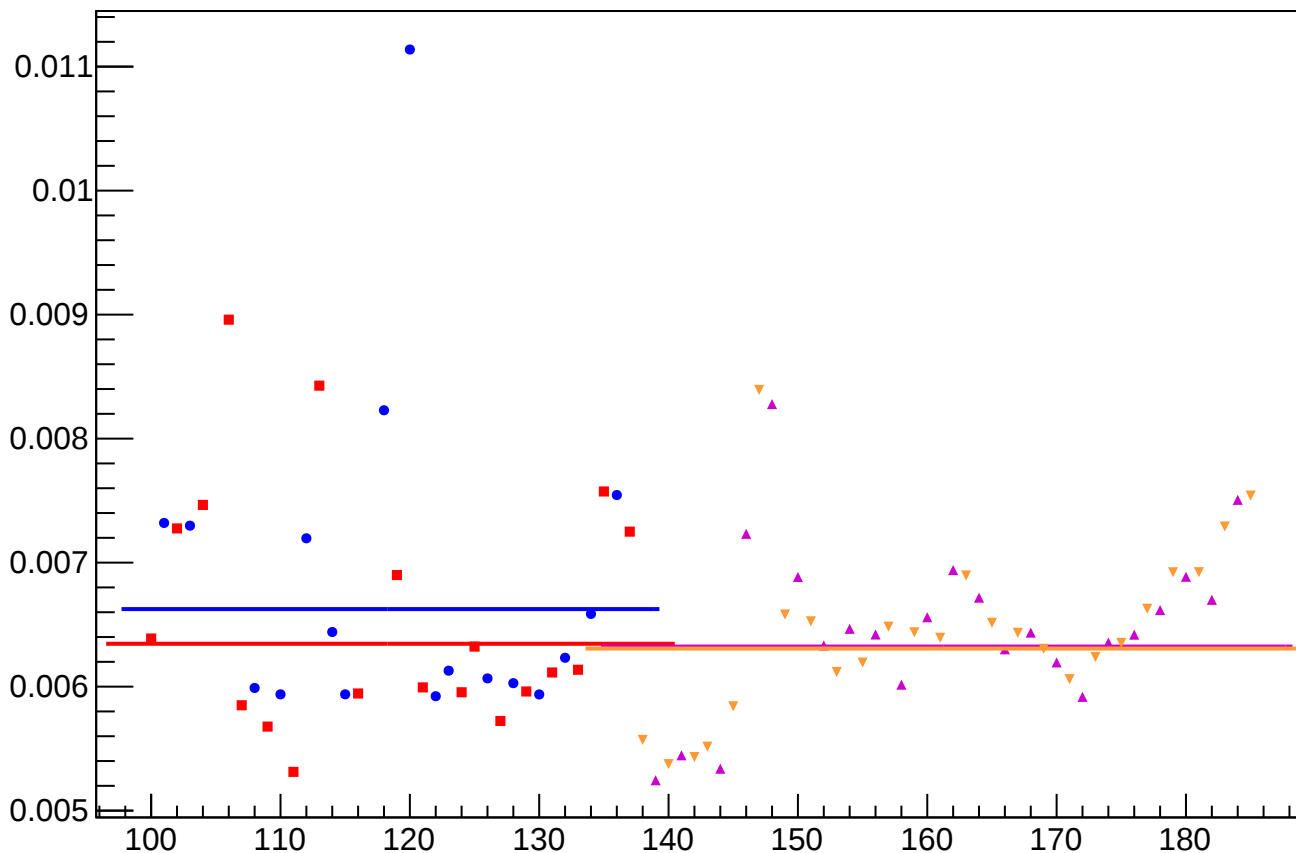
Right: -1.557+/-0.000 χ^2/NDF : 51232685741.2/35

In: -1.623+/-0.000 χ^2/NDF : 39748144047.2/39

Out: -1.648+/-0.000 χ^2/NDF : 46136293222.0/43

All: -1.636+/-0.000 χ^2/NDF : 86061842277.5/100

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 231716.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :302128.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 228829.0/18

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 633095.4/47

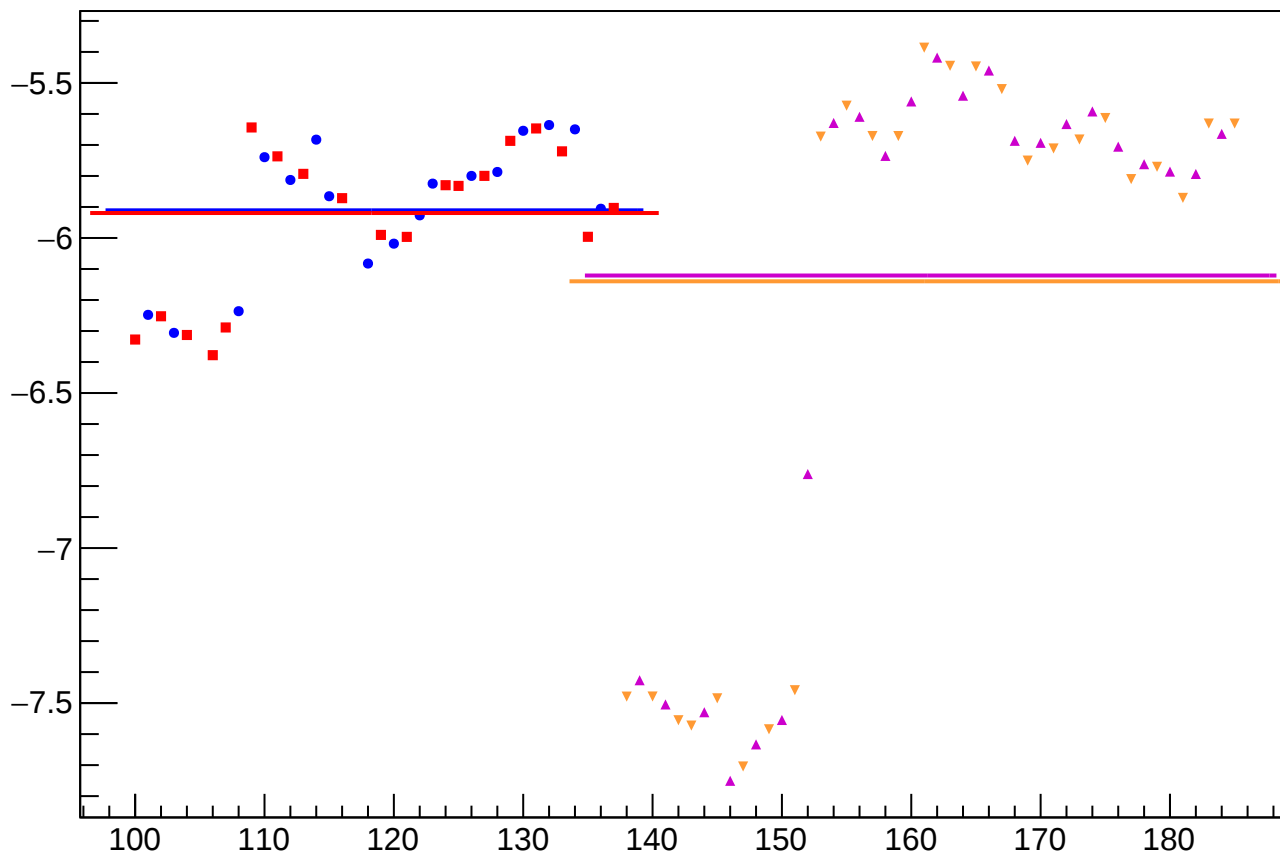
Right: 0.006+/-0.000 χ^2/NDF : 472249.9/35

In: 0.006+/-0.000 χ^2/NDF :581452.9/39

Out: 0.006+/-0.000 χ^2/NDF :531309.4/43

All: 0.006+/-0.000 χ^2/NDF : 1116581.9/83

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.911+/-0.000 χ^2/NDF : 11134606775.1/16

Left Out: -6.140+/-0.000 χ^2/NDF : 183302041496.9/24

Right Out: -5.919+/-0.000 χ^2/NDF : 12817250659.6/18

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.131+/-0.000 χ^2/NDF : 341661638057.3/47

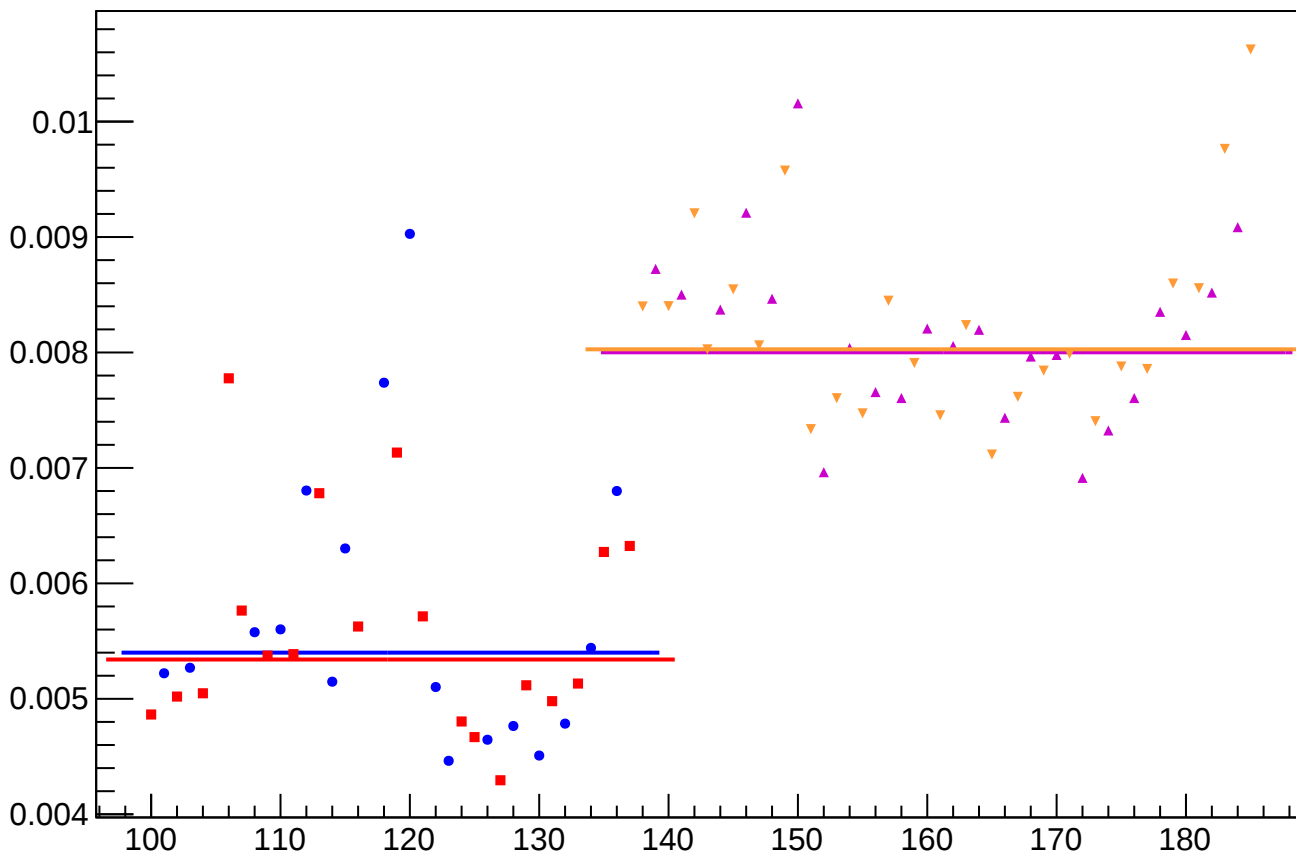
Right: -5.915+/-0.000 χ^2/NDF : 23959758417.3/35

In: -6.026+/-0.000 χ^2/NDF : 174356028007.9/39

Out: -6.037+/-0.000 χ^2/NDF : 201896053970.7/43

All: -6.032+/-0.000 χ^2/NDF : 376279210515.9

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 :205485.5/24

Right Out: 0.005+/-0.000 χ^2/NDF : 251605.9/18

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426409.3/47

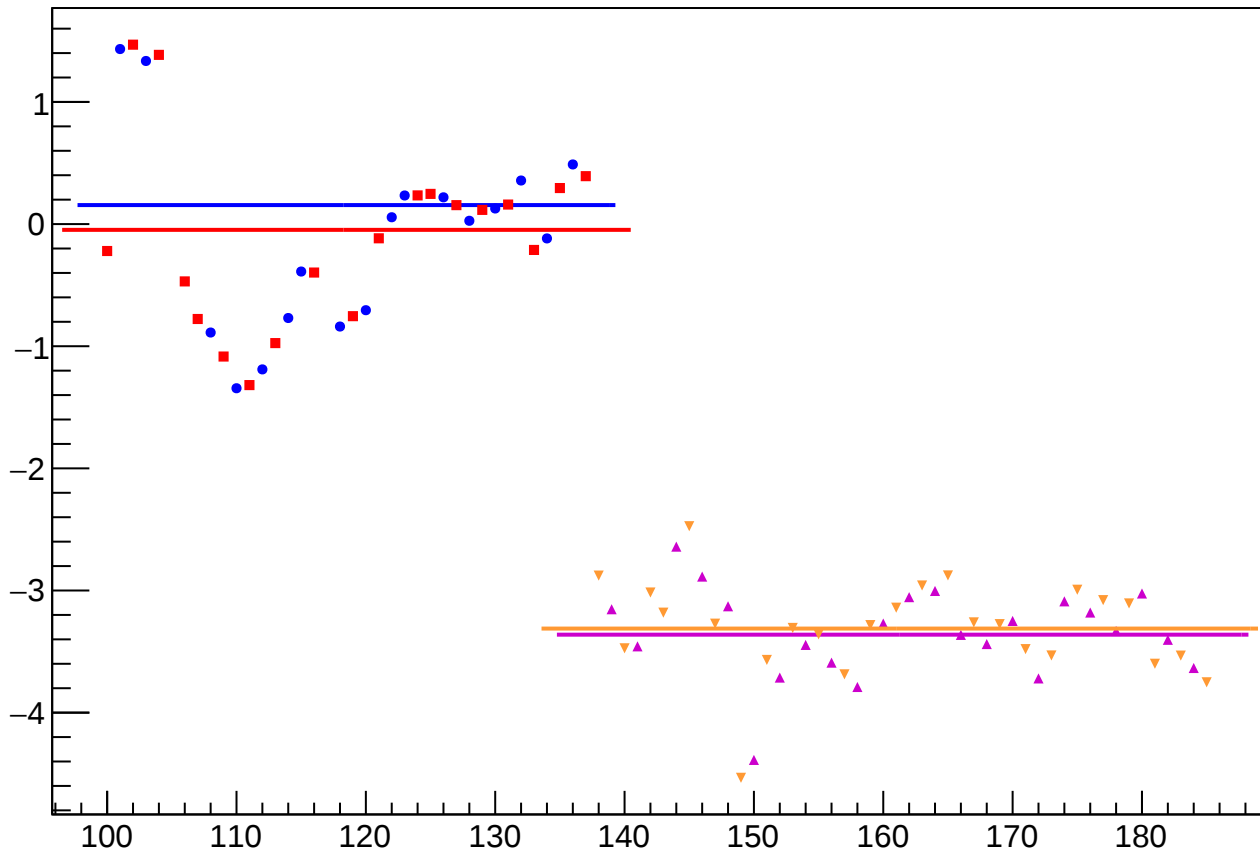
Right: 0.005+/-0.000 χ^2/NDF : 622836.6/35

In: 0.007+/-0.000 χ^2/NDF :2093887.6/39

Out: 0.007+/-0.000 χ^2/NDF :2176906.1/43

All: 0.007+/-0.000 χ^2/NDF : 4272099.1/83

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.156+/-0.000 χ^2/NDF : 16968312396.2/16

Left Out: -3.312+/-0.000 χ^2/NDF : 9343115495.2/24

Right Out: -0.047+/-0.000 χ^2/NDF : 21207878974.4/18

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17599428991.0/47

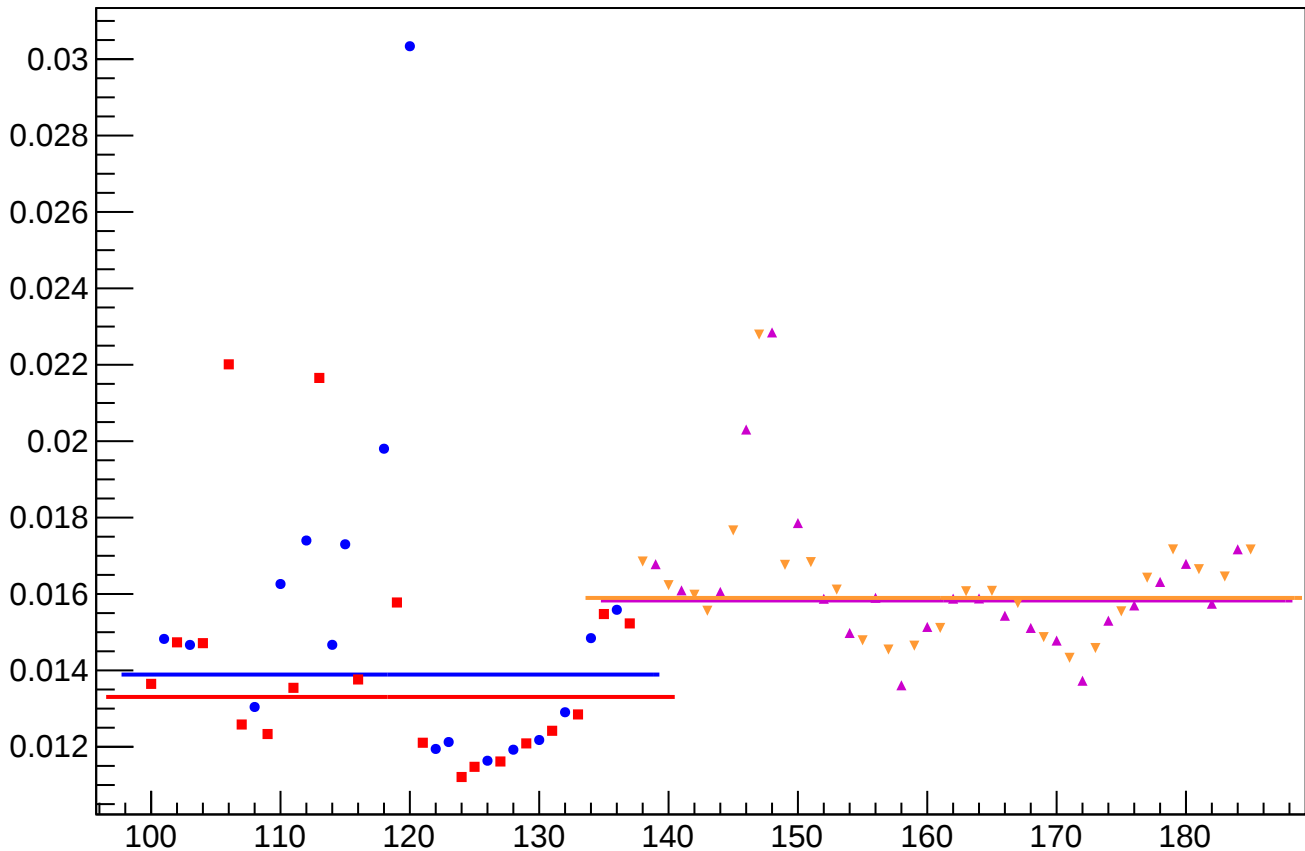
Right: 0.045+/-0.000 χ^2/NDF : 38859685690.3/35

In: -2.251+/-0.000 χ^2/NDF : 283913919741.0/39

Out: -2.191+/-0.000 χ^2/NDF : 285017237077.4/43

All: -2.220+/-0.000 χ^2/NDF : 569116443939.4

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 :252192.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 293774.0/18

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 592032.6/47

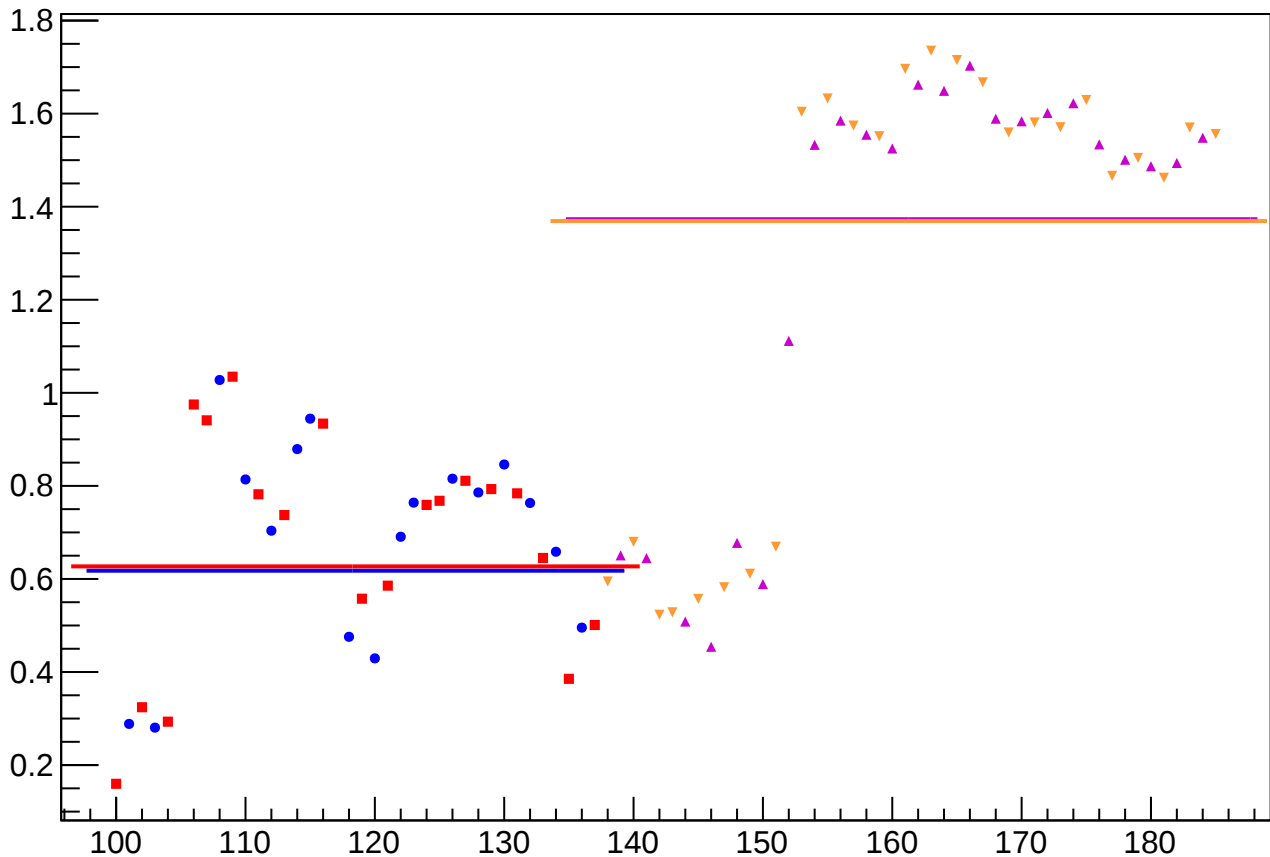
Right: 0.014+/-0.000 χ^2/NDF : 706451.8/35

In: 0.015+/-0.000 χ^2/NDF :898212.7/39

Out: 0.015+/-0.000 χ^2/NDF :866724.0/43

All: 0.015+/-0.000 χ^2/NDF : 1769457.0/83

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.618+/-0.000 χ^2/NDF : 5402179431.9/16

Left Out: 1.369+/-0.000 χ^2/NDF : 73412059030.0/24

Right Out: 0.627+/-0.000 χ^2/NDF : 6335950203.8/18

Left In: 1.373+/-0.000 χ^2/NDF : 63413151416.3/22

Left: 1.371+/-0.000 χ^2/NDF : 136828696156.8/47

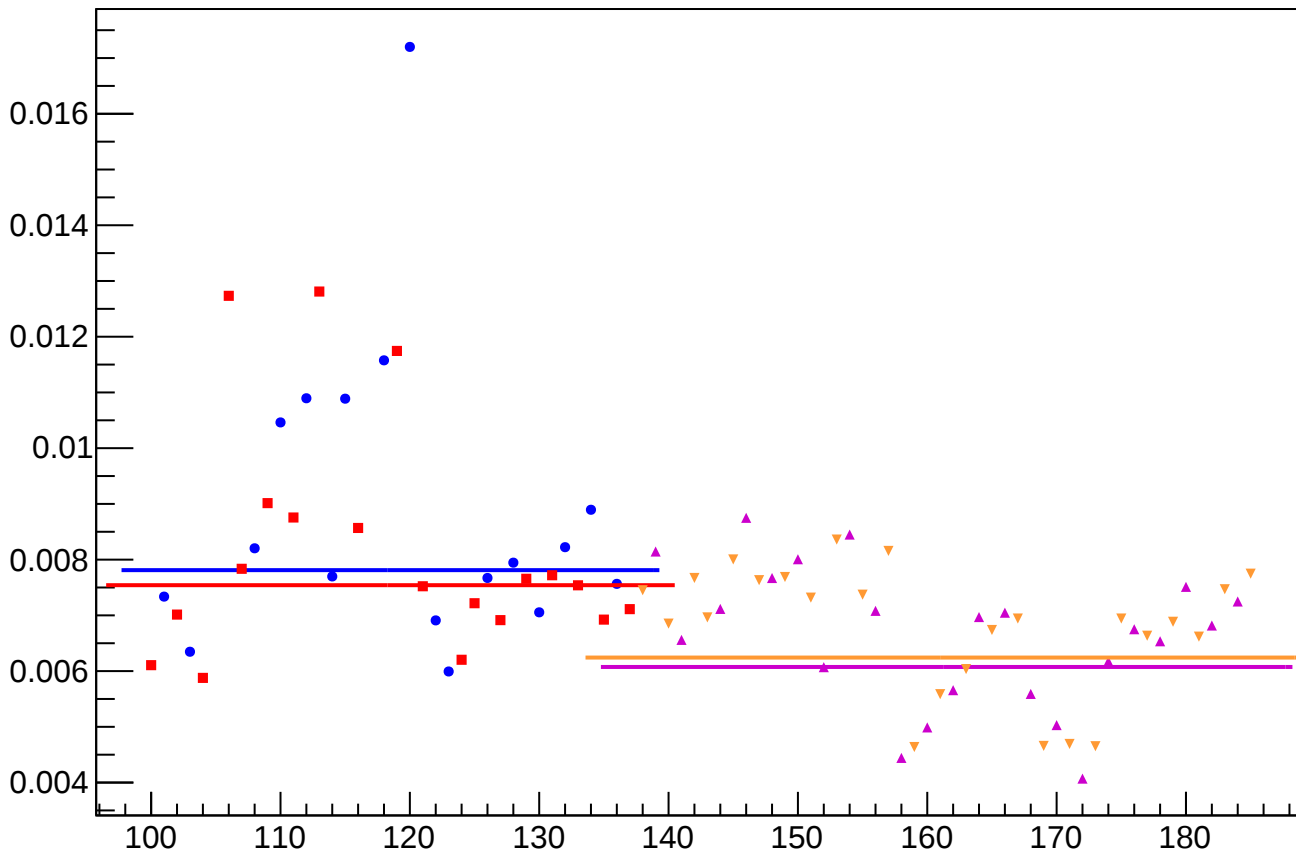
Right: 0.623+/-0.000 χ^2/NDF : 11742487820.7/35

In: 1.236+/-0.000 χ^2/NDF : 113172575549.7/39

Out: 1.218+/-0.000 χ^2/NDF : 127368462515.8/43

All: 1.227+/-0.000 χ^2/NDF : 240626169996.7

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 :1327781.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 441480.1/18

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2771891.5/47

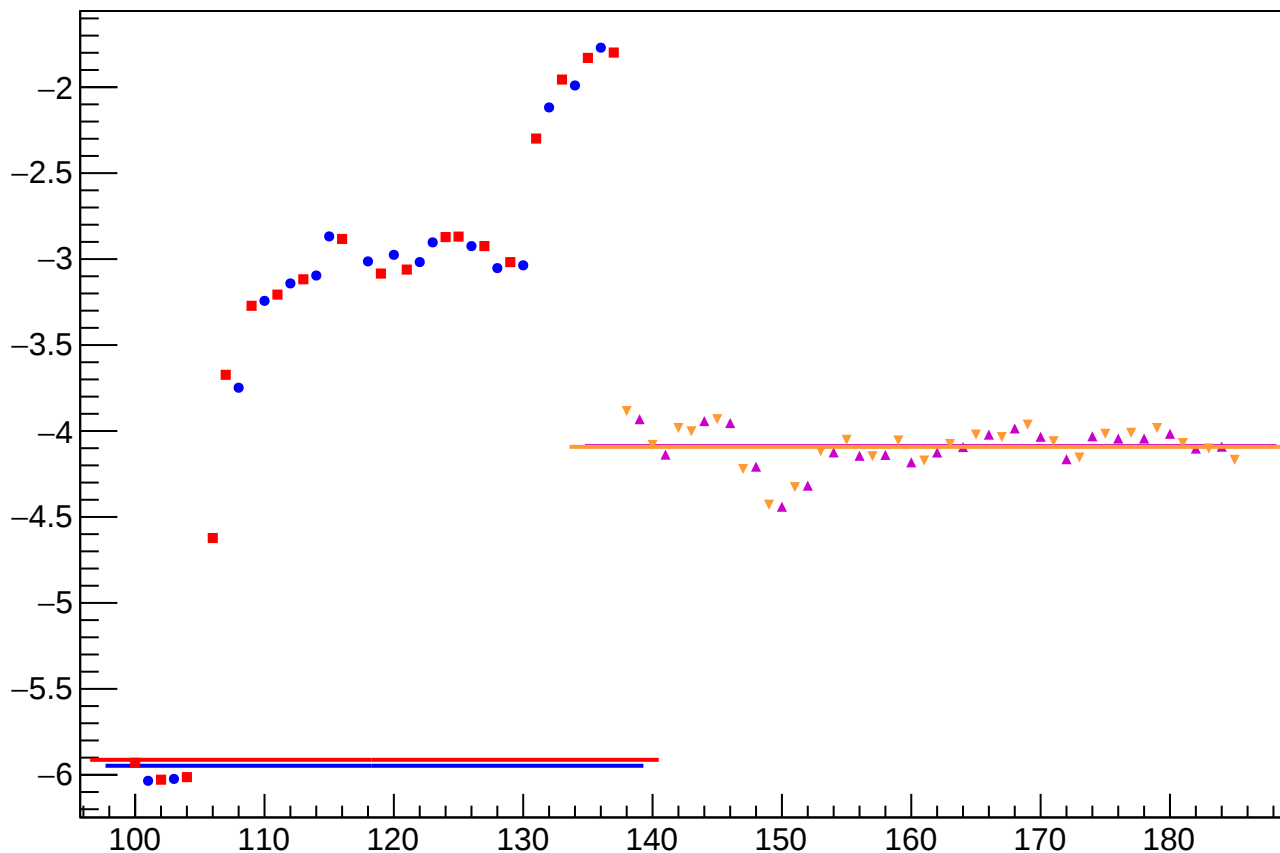
Right: 0.008+/-0.000 χ^2/NDF : 916097.9/35

In: 0.006+/-0.000 χ^2/NDF :2368410.1/39

Out: 0.007+/-0.000 χ^2/NDF :2060908.7/43

All: 0.006+/-0.000 χ^2/NDF : 4436609.3/83

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 : 39686695.7/24

Right Out: -5.913+/-0.000 χ^2/NDF : 14598904051.6/18

Left In: -4.088+/-0.000 χ^2/NDF : 34412880.7/22

Left: -4.090+/-0.000 χ^2/NDF : 74134554.5/47

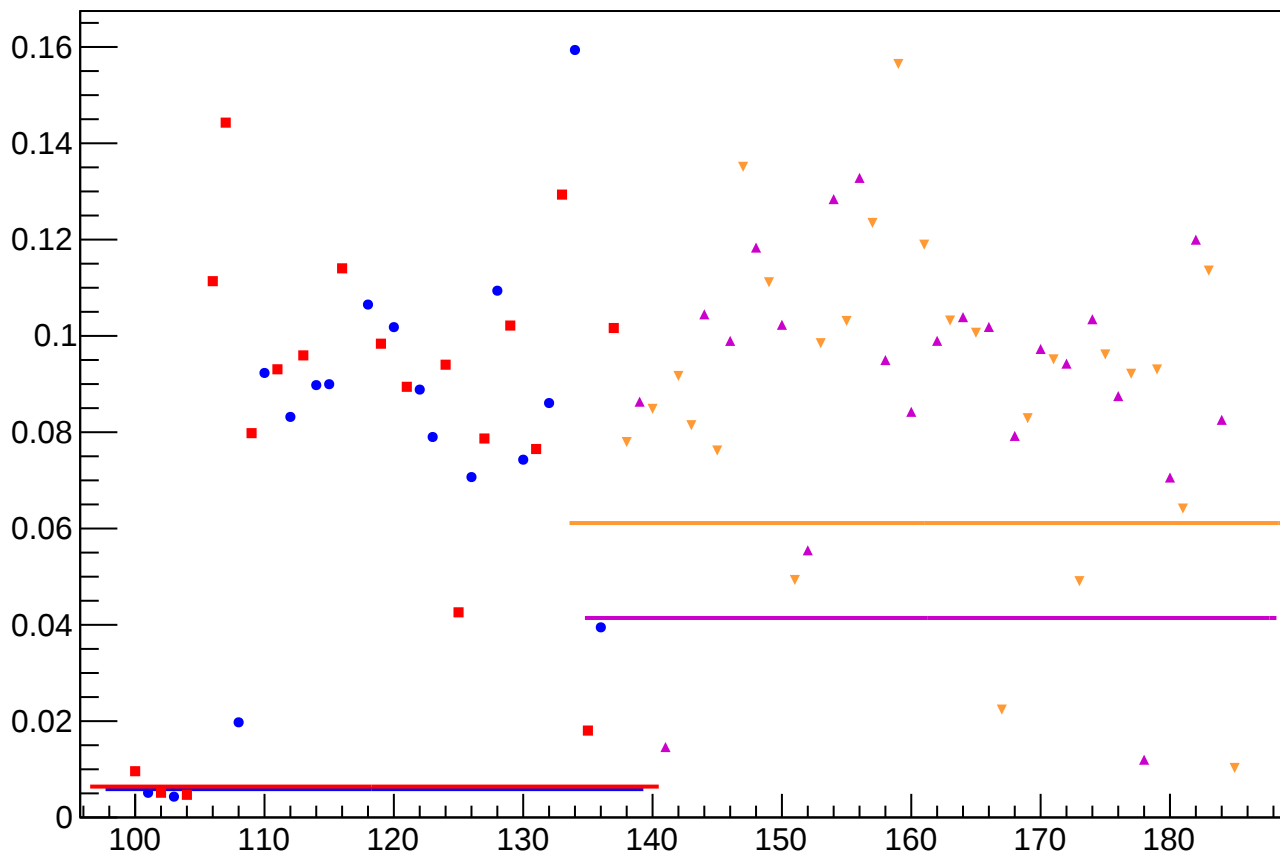
Right: -5.932+/-0.000 χ^2/NDF : 27734843277.8/35

In: -5.794+/-0.000 χ^2/NDF : 26674621593.1/39

Out: -5.782+/-0.000 χ^2/NDF : 23687245194.5/43

All: -5.789+/-0.000 χ^2/NDF : 50364827787.7/77

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 : 8331262.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 8462409.6/18

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.049+/-0.000 χ^2/NDF : 22808727.4/47

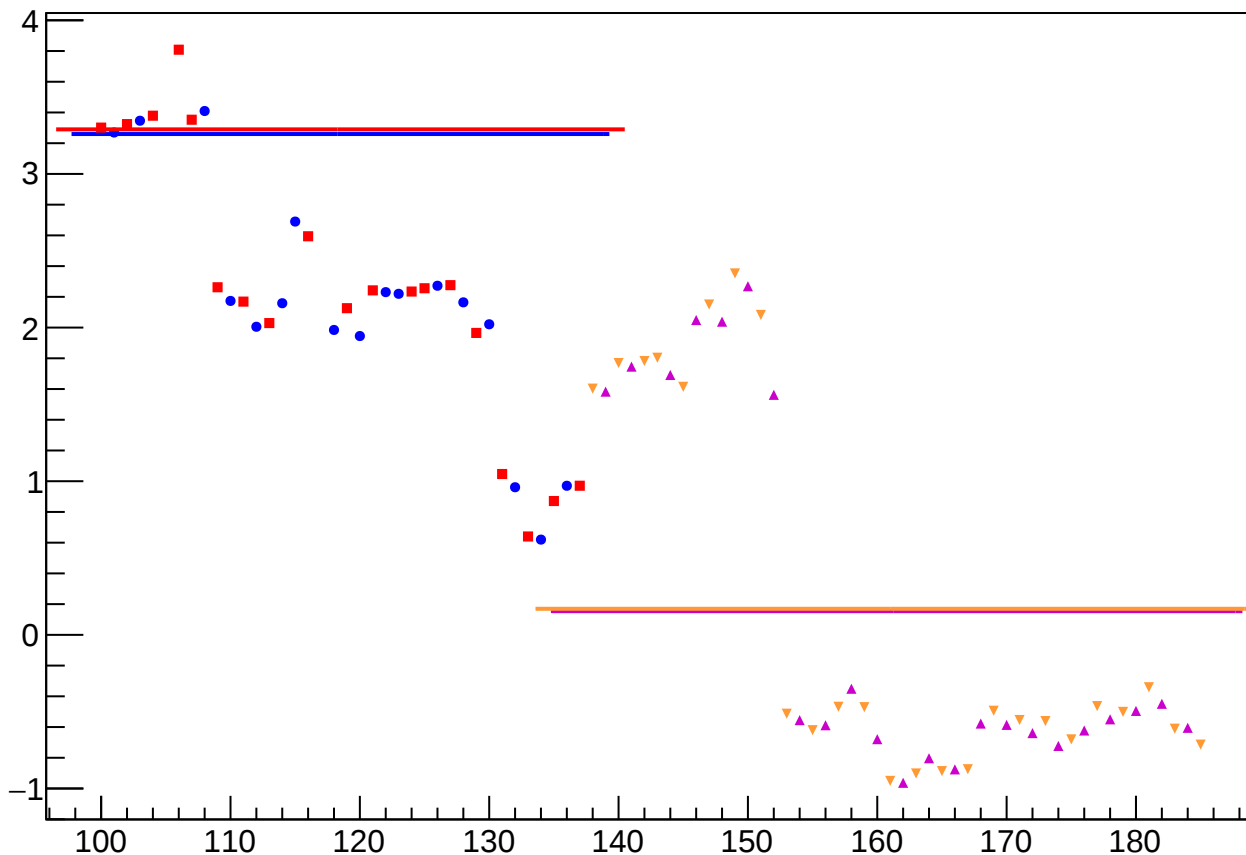
Right: 0.006+/-0.000 χ^2/NDF : 16386134.2/35

In: 0.009+/-0.000 χ^2/NDF : 30920273.3/39

Out: 0.010+/-0.000 χ^2/NDF : 33150400.6/43

All: 0.009+/-0.000 χ^2/NDF : 64174645.1/83

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260 $\pm$ 0.000 χ^2 /NDF: 2914830636.8/16

Left Out: 0.170 $\pm$ 0.000 χ^2 /NDF:3249017260.5/24

Right Out: 3.290 $\pm$ 0.000 χ^2 /NDF: 3257931929.9/18

Left In: 0.154 $\pm$ 0.000 χ^2 /NDF:3163553595.0/22

Left: 0.161 $\pm$ 0.000 χ^2 /NDF: 6412858432.5/47

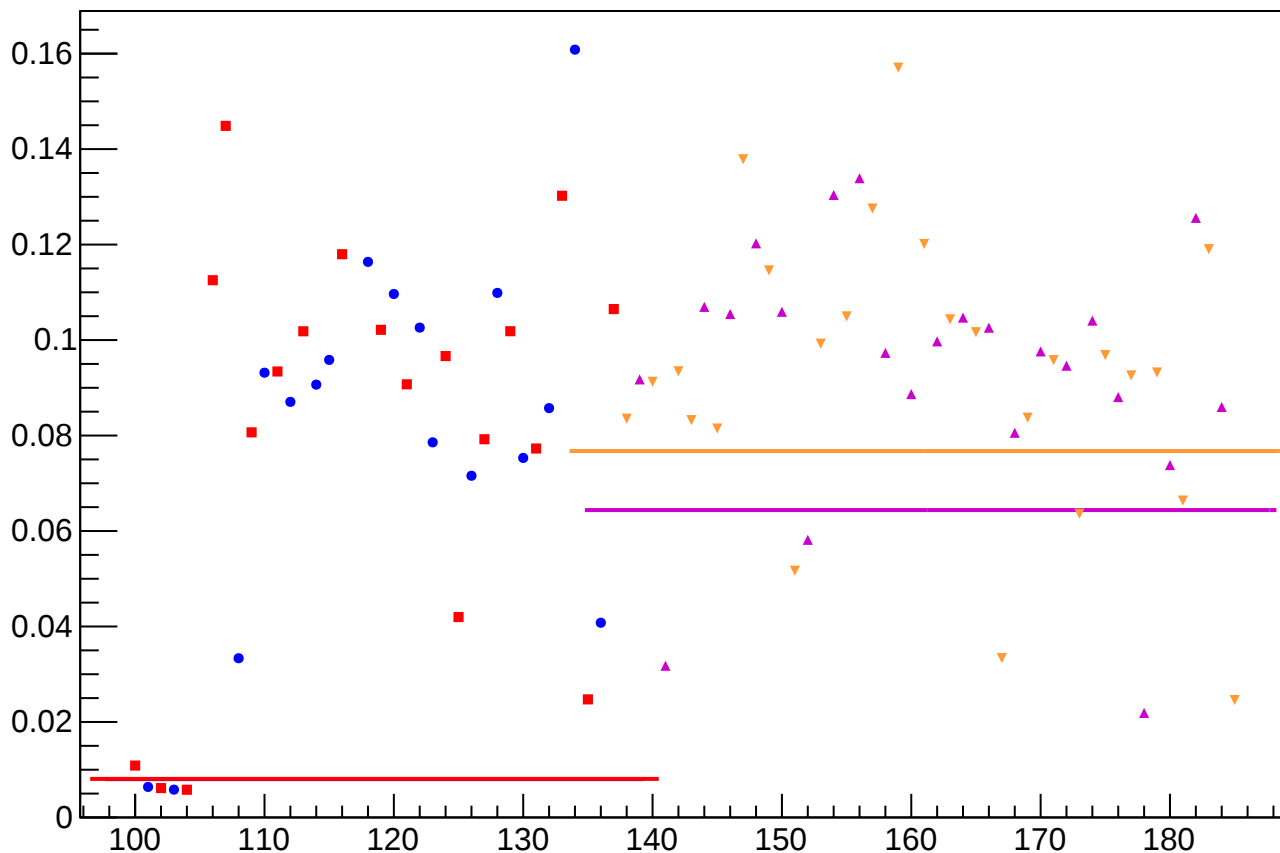
Right: 3.274 $\pm$ 0.000 χ^2 /NDF: 6185493270.5/35

In: 3.004 $\pm$ 0.000 χ^2 /NDF:28905118654.9/39

Out: 3.045 $\pm$ 0.000 χ^2 /NDF:26755359104.8/43

All: 3.024 $\pm$ 0.000 χ^2 /NDF: 55685463685.6/80

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: 4211622.1/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8274347.6/18

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF: 6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11569886.5/47

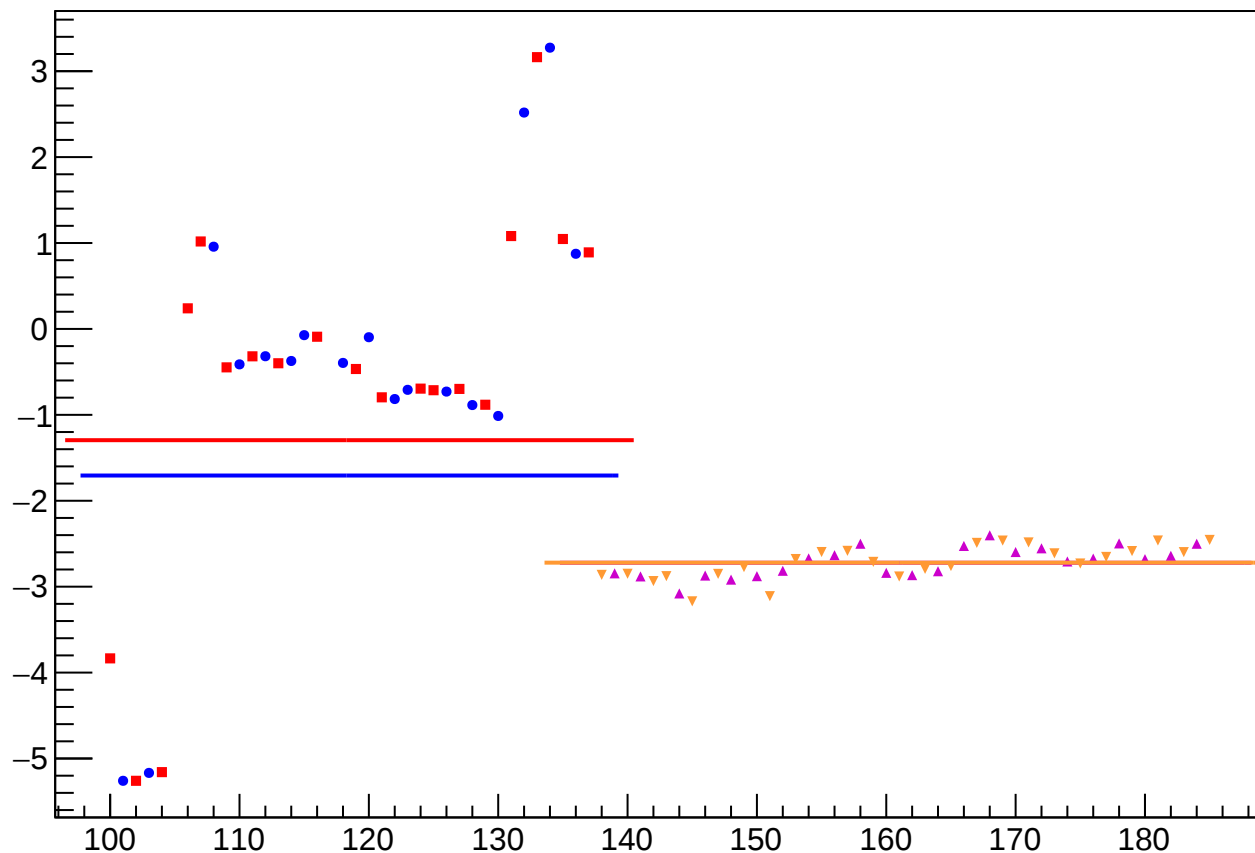
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 15995510.5/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 29748727.3/39

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 32103652.8/43

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 61871726.4/83

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.706+/-0.000 χ^2/NDF : 166152957432.2/16

Left Out: -2.720+/-0.000 χ^2/NDF : 10353603959.0/24

Right Out: -1.295+/-0.000 χ^2/NDF : 178454284120.5/18

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.721+/-0.000 χ^2/NDF : 18500433930.9/47

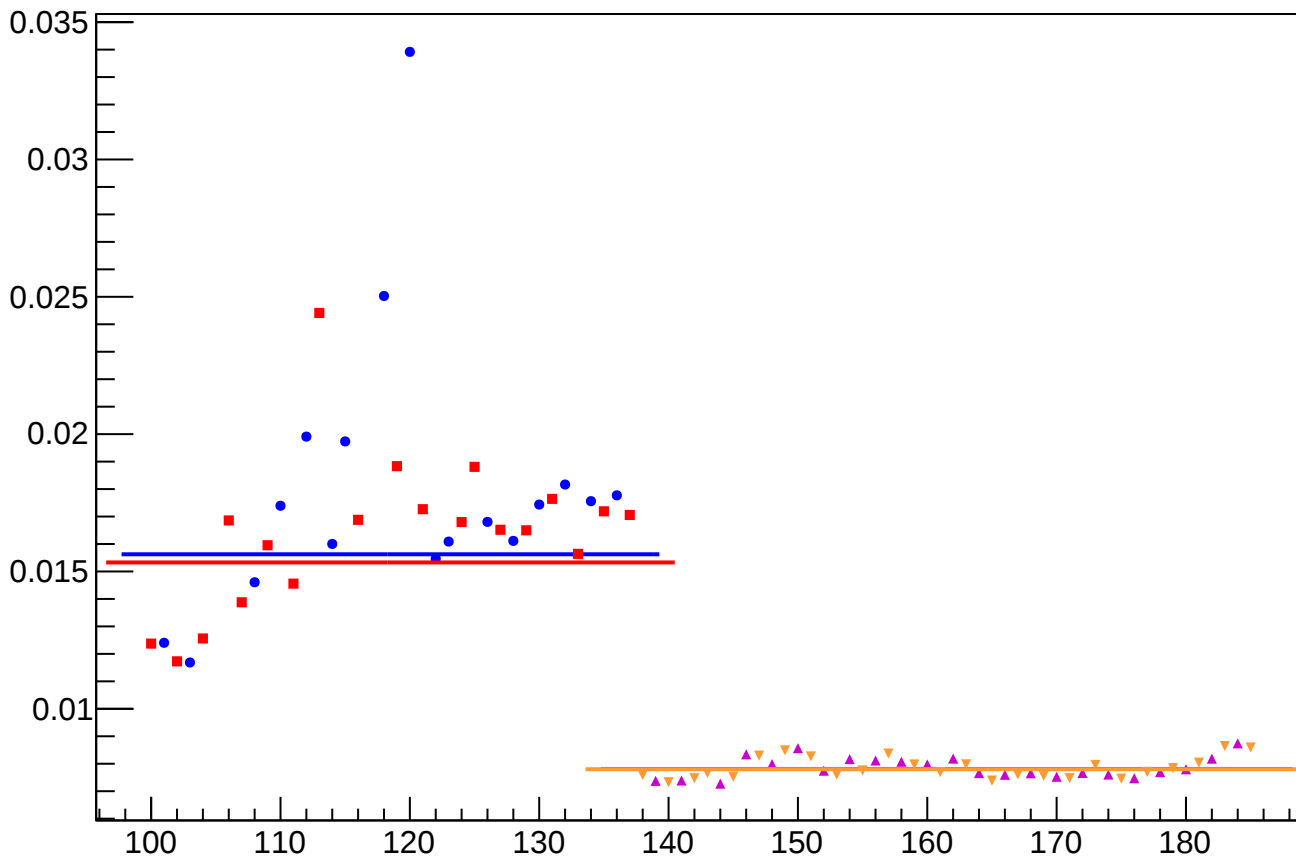
Right: -1.486+/-0.000 χ^2/NDF : 346679077409.6/35

In: -2.644+/-0.000 χ^2/NDF : 196091674468.9/39

Out: -2.601+/-0.000 χ^2/NDF : 237844917100.7/43

All: -2.622+/-0.000 χ^2/NDF : 434207834986.4

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 576262.6/16

Left Out: 0.008+/-0.000 χ^2/NDF : 71585.7/24

Right Out: 0.015+/-0.000 χ^2/NDF : 349445.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 139225.6/47

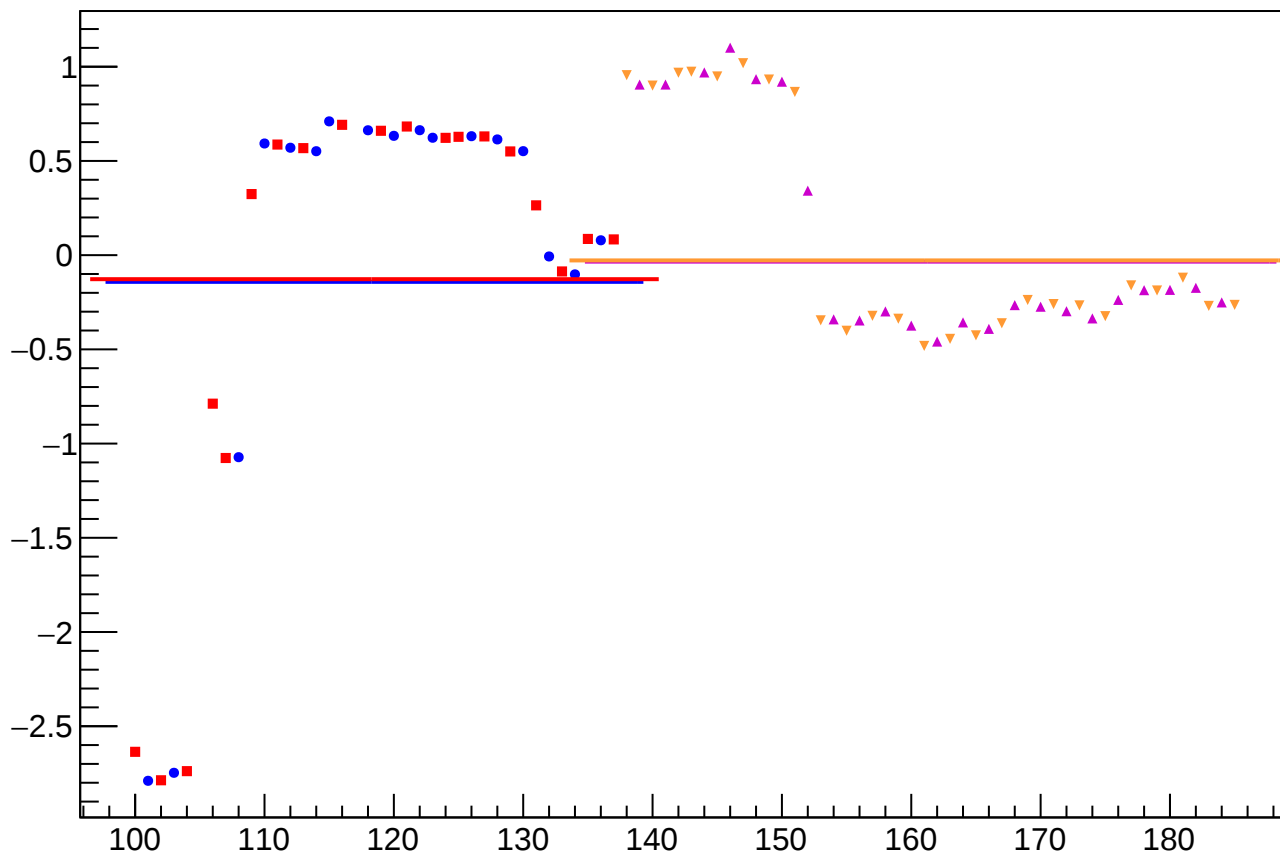
Right: 0.015+/-0.000 χ^2/NDF : 927870.4/35

In: 0.008+/-0.000 χ^2/NDF : 3224593.1/39

Out: 0.008+/-0.000 χ^2/NDF : 3156904.8/43

All: 0.008+/-0.000 χ^2/NDF : 6381564.4/83

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.142+/-0.000

χ^2/NDF : 713960839307.6/16

Left: -0.031+/-0.000

χ^2/NDF : 247488620649.7/47

Left Out: -0.028+/-0.000

χ^2/NDF : 133549992830.0/24

Right: -0.134+/-0.000

χ^2/NDF : 1474652420733.4/3

Right Out: -0.128+/-0.000

χ^2/NDF : 760638736693.8/18

In: -0.090+/-0.000

χ^2/NDF : 830692306788.9/39

Out: -0.081+/-0.000

χ^2/NDF : 896748516928.9/43

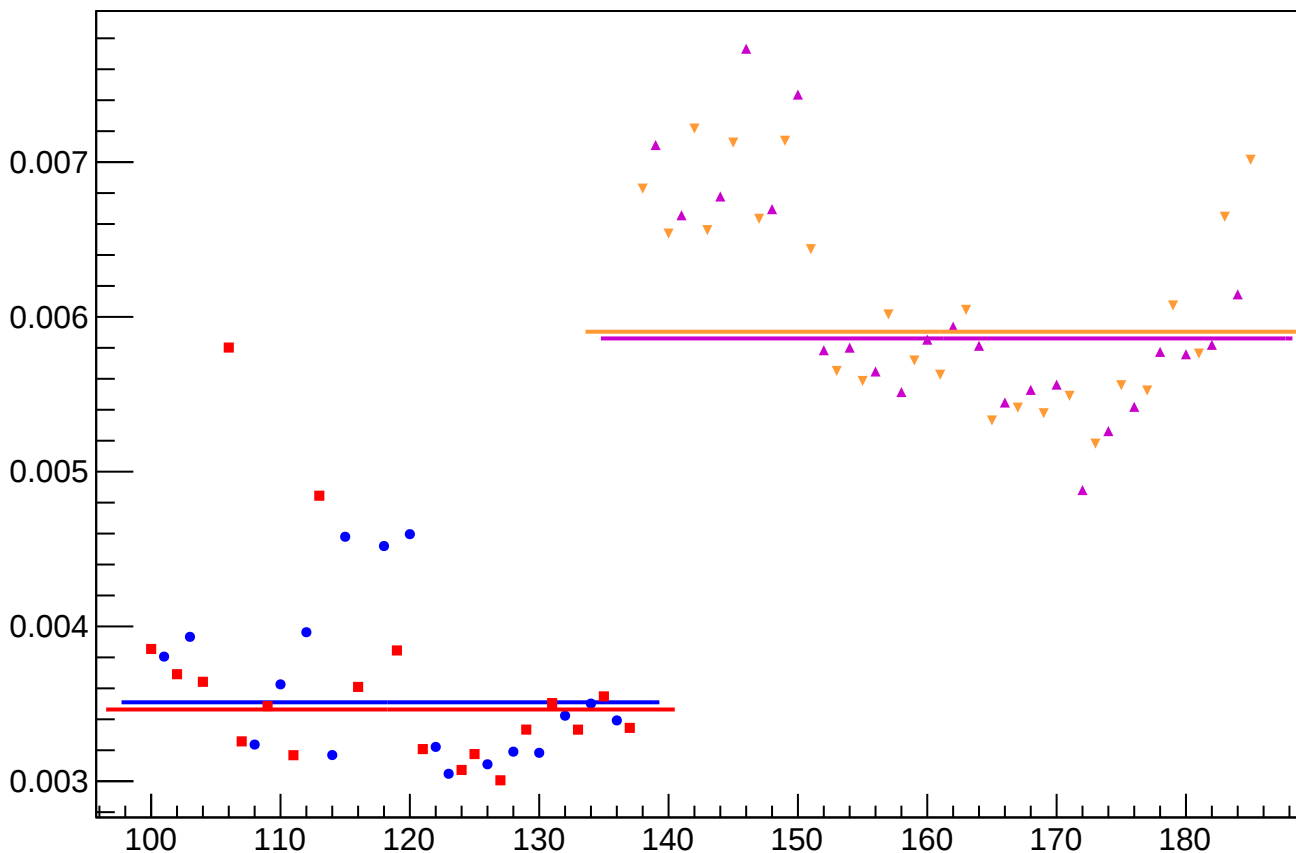
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: -0.086+/-0.000

χ^2/NDF : 1727481472680

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171943.8/16

Left Out: 0.006+/-0.000 χ^2/NDF :310438.9/24

Right Out: 0.003+/-0.000 χ^2/NDF : 215500.5/18

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 675844.9/47

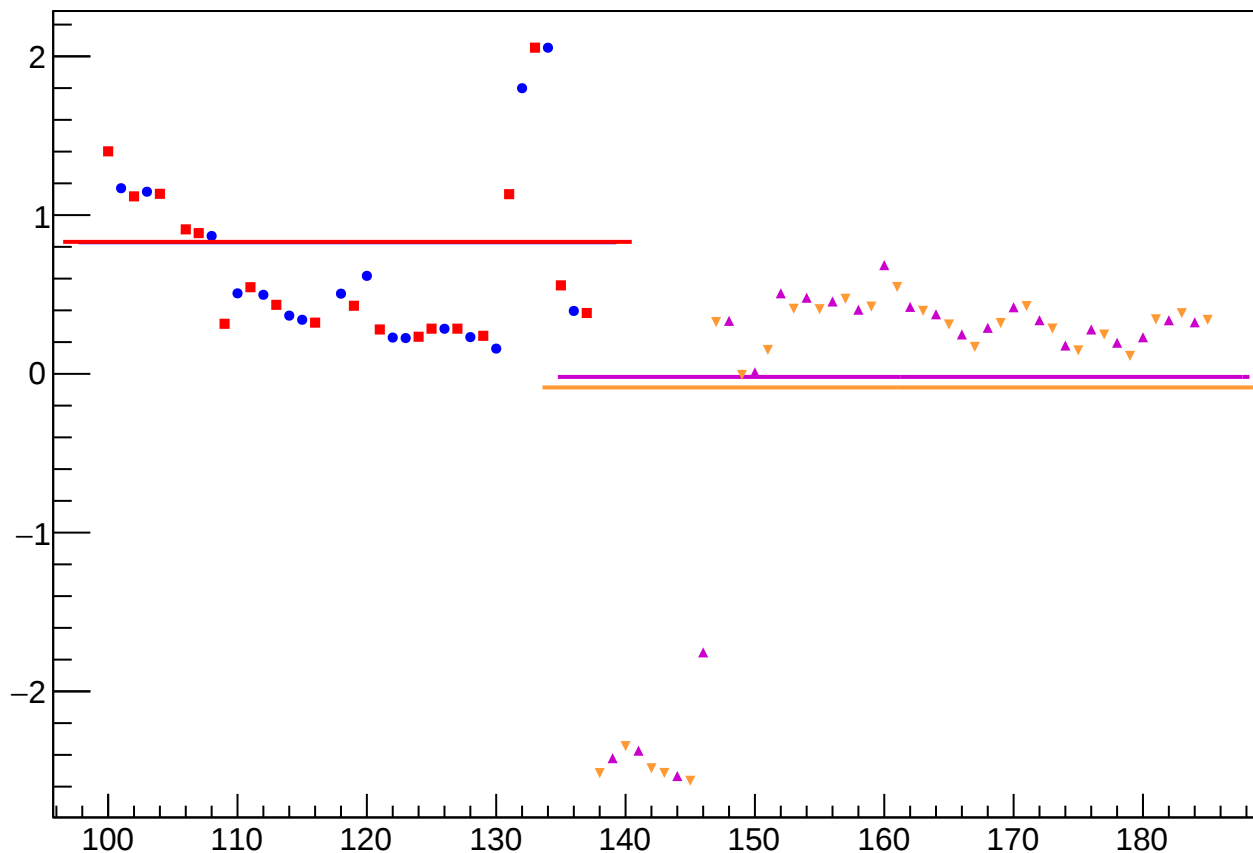
Right: 0.003+/-0.000 χ^2/NDF : 388598.7/35

In: 0.005+/-0.000 χ^2/NDF :3228297.3/39

Out: 0.005+/-0.000 χ^2/NDF :3603722.7/43

All: 0.005+/-0.000 χ^2/NDF : 6833484.2/83

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000

χ^2/NDF : 31663410264.3/16

Left: -0.053+/-0.000

χ^2/NDF : 911722403040.0/47

Right: 0.830+/-0.000

χ^2/NDF : 65047160404.8/35

Left Out: -0.086+/-0.000

χ^2/NDF : 493511623705.3/24

In: 0.167+/-0.000

χ^2/NDF : 526855986998.4/39

Right Out: 0.831+/-0.000

χ^2/NDF : 33383369168.0/18

Out: 0.124+/-0.000

χ^2/NDF : 625474984264.9/43

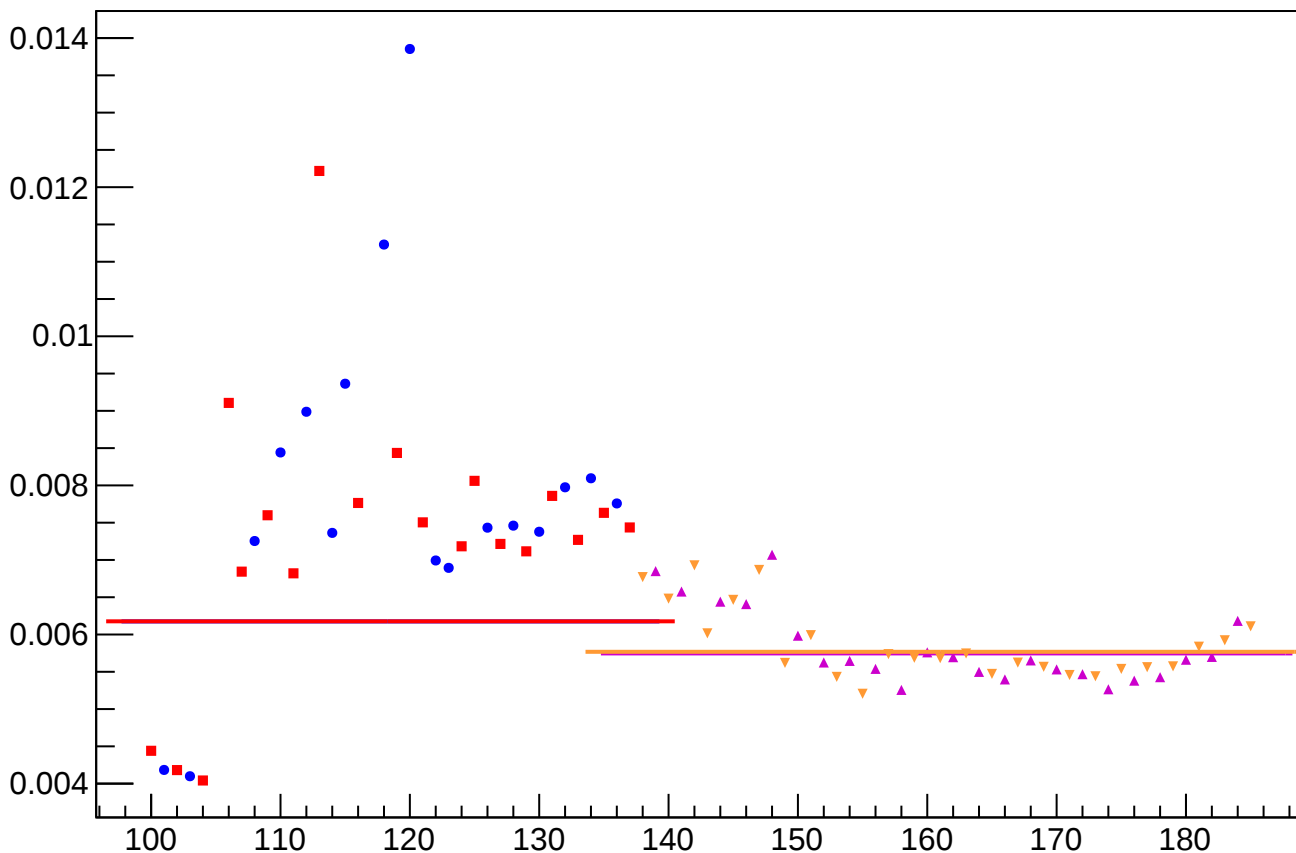
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.145+/-0.000

χ^2/NDF : 1152938764889.0

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 :175588.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1020690.2/18

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 379892.4/47

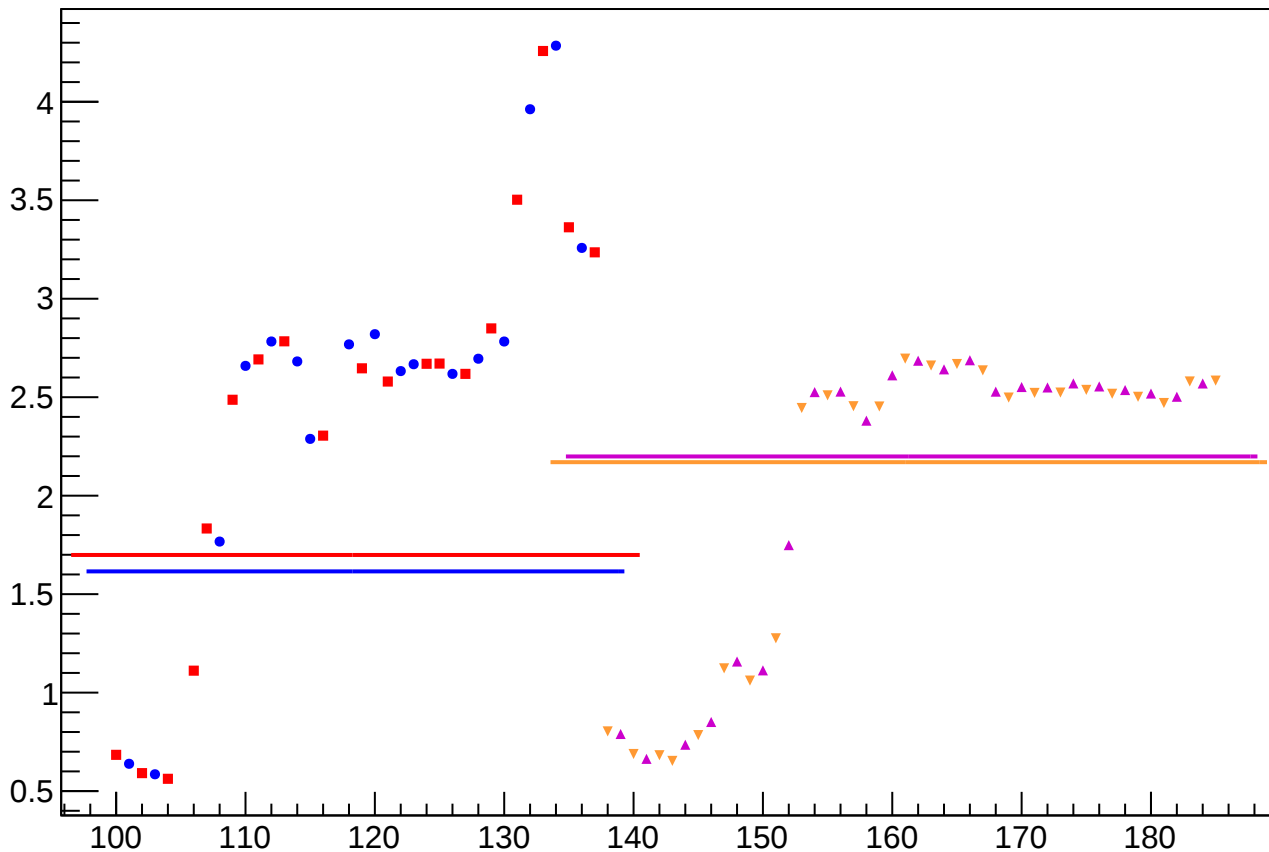
Right: 0.006+/-0.000 χ^2/NDF : 2242581.1/35

In: 0.006+/-0.000 χ^2/NDF :1465904.8/39

Out: 0.006+/-0.000 χ^2/NDF :1235465.6/43

All: 0.006+/-0.000 χ^2/NDF : 2701651.7/83

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.616+/-0.000 χ^2/NDF : 202687681737.9/16

Left Out: 2.170+/-0.000 χ^2/NDF : 288211149973.9/24

Right Out: 1.699+/-0.000 χ^2/NDF : 227853059871.9/18

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.184+/-0.000 χ^2/NDF : 541621147193.3/47

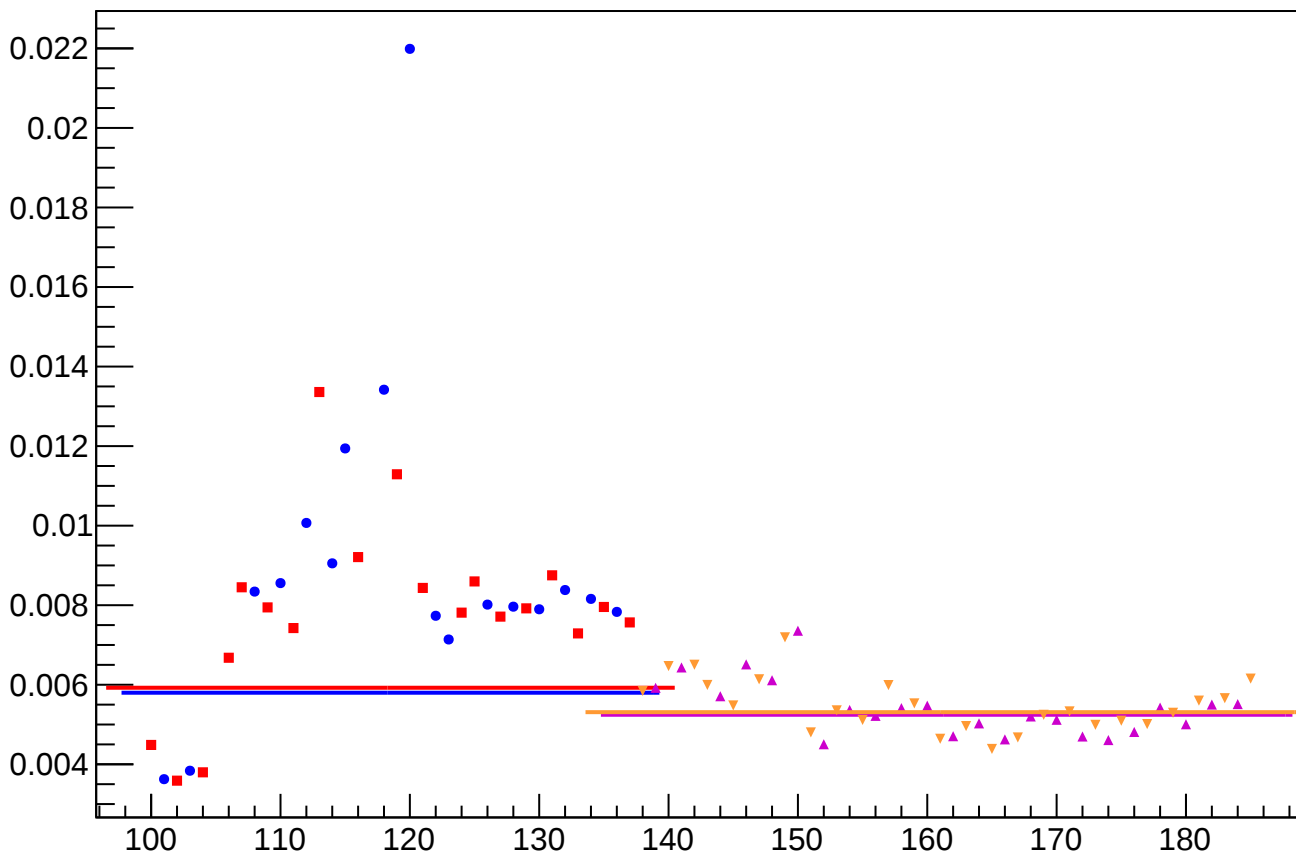
Right: 1.659+/-0.000 χ^2/NDF : 431053573295.4/35

In: 2.082+/-0.000 χ^2/NDF : 494828354987.6/39

Out: 2.073+/-0.000 χ^2/NDF : 542896151963.9/43

All: 2.078+/-0.000 χ^2/NDF : 1037758444440.

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 :393293.3/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1677224.2/18

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 821619.3/47

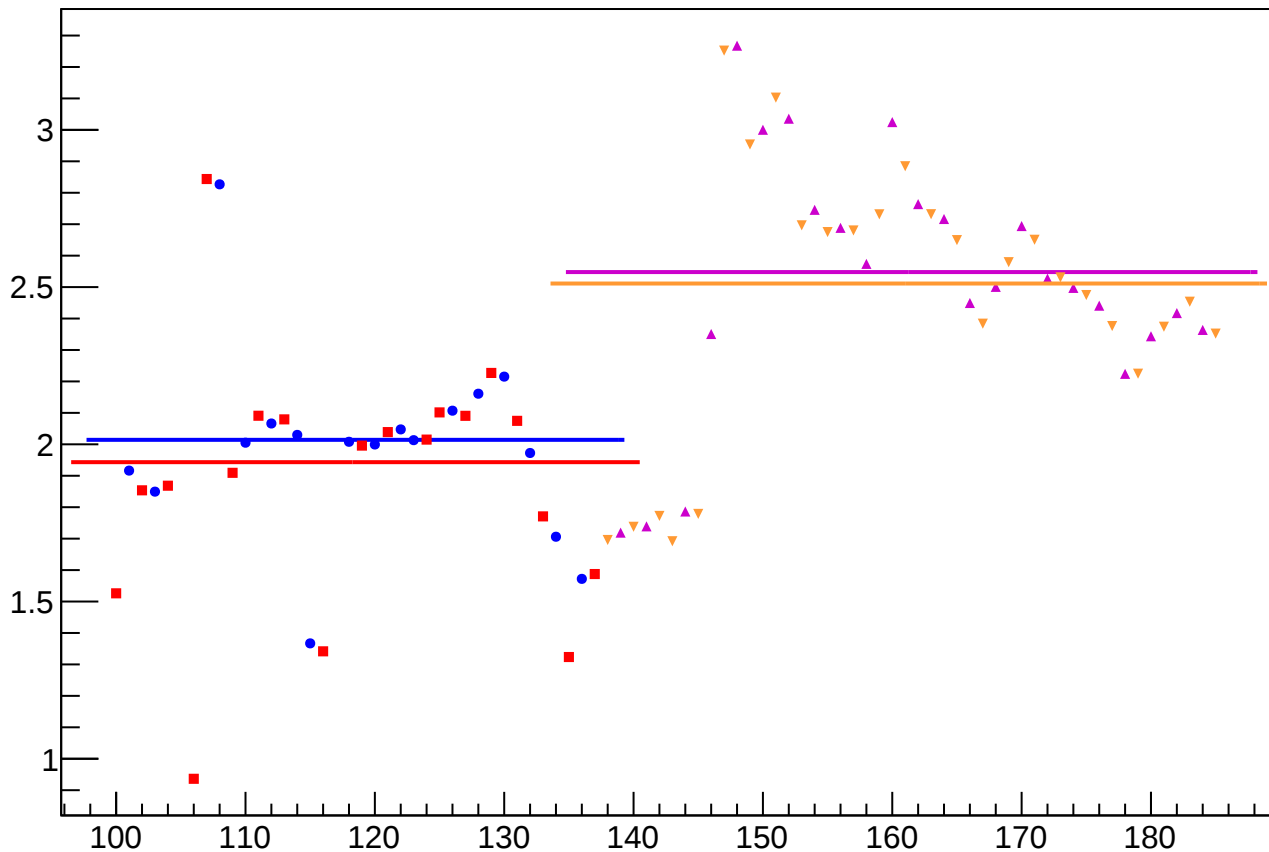
Right: 0.006+/-0.000 χ^2/NDF : 3590939.0/35

In: 0.005+/-0.000 χ^2/NDF :2407511.5/39

Out: 0.005+/-0.000 χ^2/NDF :2161648.9/43

All: 0.005+/-0.000 χ^2/NDF : 4573957.4/83

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.014 $\pm$ 0.000 χ^2 /NDF: 12207088036.2/16

Left Out: 2.511 $\pm$ 0.000 χ^2 /NDF: 51366348635.2/24

Right Out: 1.943 $\pm$ 0.000 χ^2 /NDF: 21416554404.5/18

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.529 $\pm$ 0.000 χ^2 /NDF: 96930079285.7/47

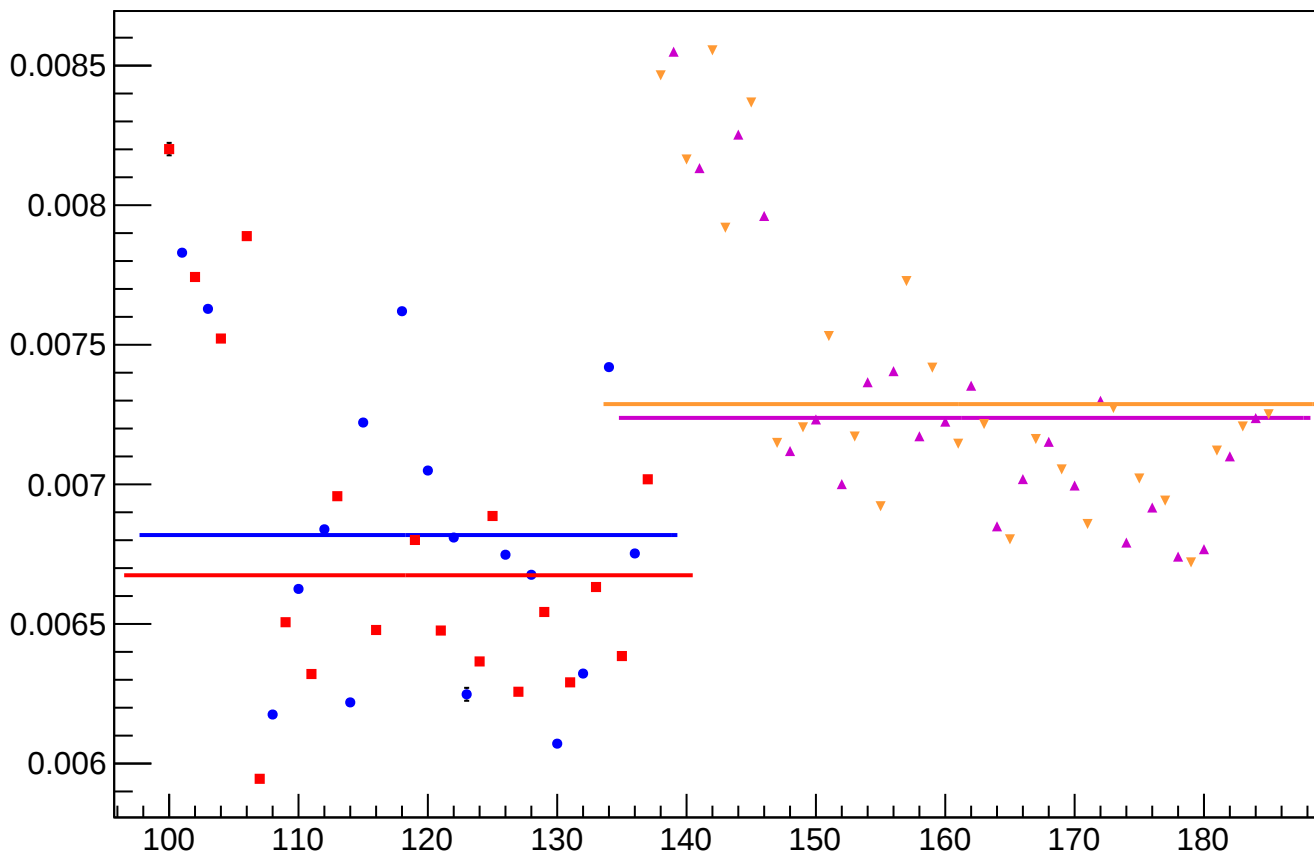
Right: 1.977 $\pm$ 0.000 χ^2 /NDF: 33985983843.8/35

In: 2.387 $\pm$ 0.000 χ^2 /NDF: 84687094358.6/39

Out: 2.331 $\pm$ 0.000 χ^2 /NDF: 106245873861.7/43

All: 2.358 $\pm$ 0.000 χ^2 /NDF: 191665254043.9

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 :137979.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 76755.5/18

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 263998.2/47

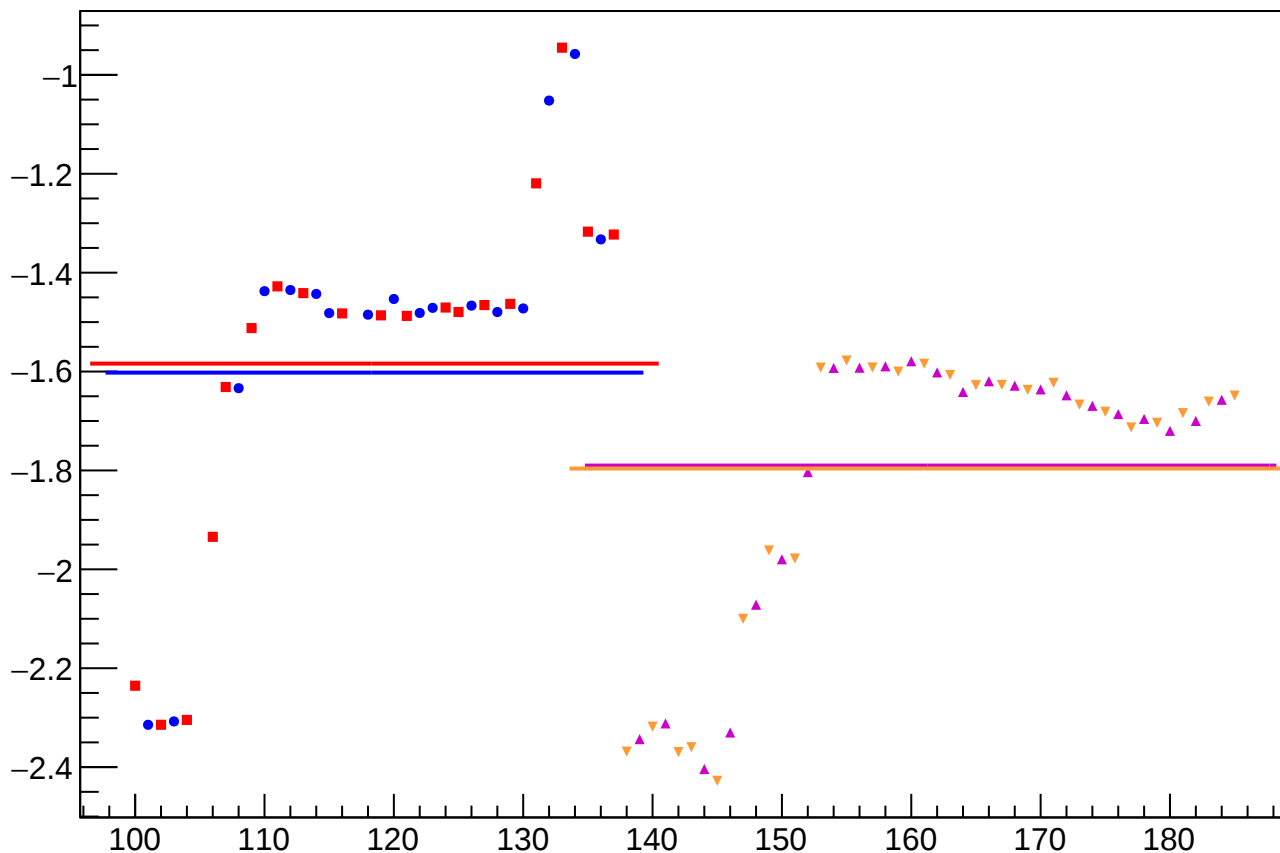
Right: 0.007+/-0.000 χ^2/NDF : 156621.0/35

In: 0.007+/-0.000 χ^2/NDF :235686.9/39

Out: 0.007+/-0.000 χ^2/NDF :292662.0/43

All: 0.007+/-0.000 χ^2/NDF : 528512.7/83

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140170767010.0/16

Left Out: -1.796+/-0.000 χ^2/NDF : 181514724830.5/24

Right Out: -1.584+/-0.000 χ^2/NDF : 143827090276.5/18

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.793+/-0.000 χ^2/NDF : 341204206212.5/47

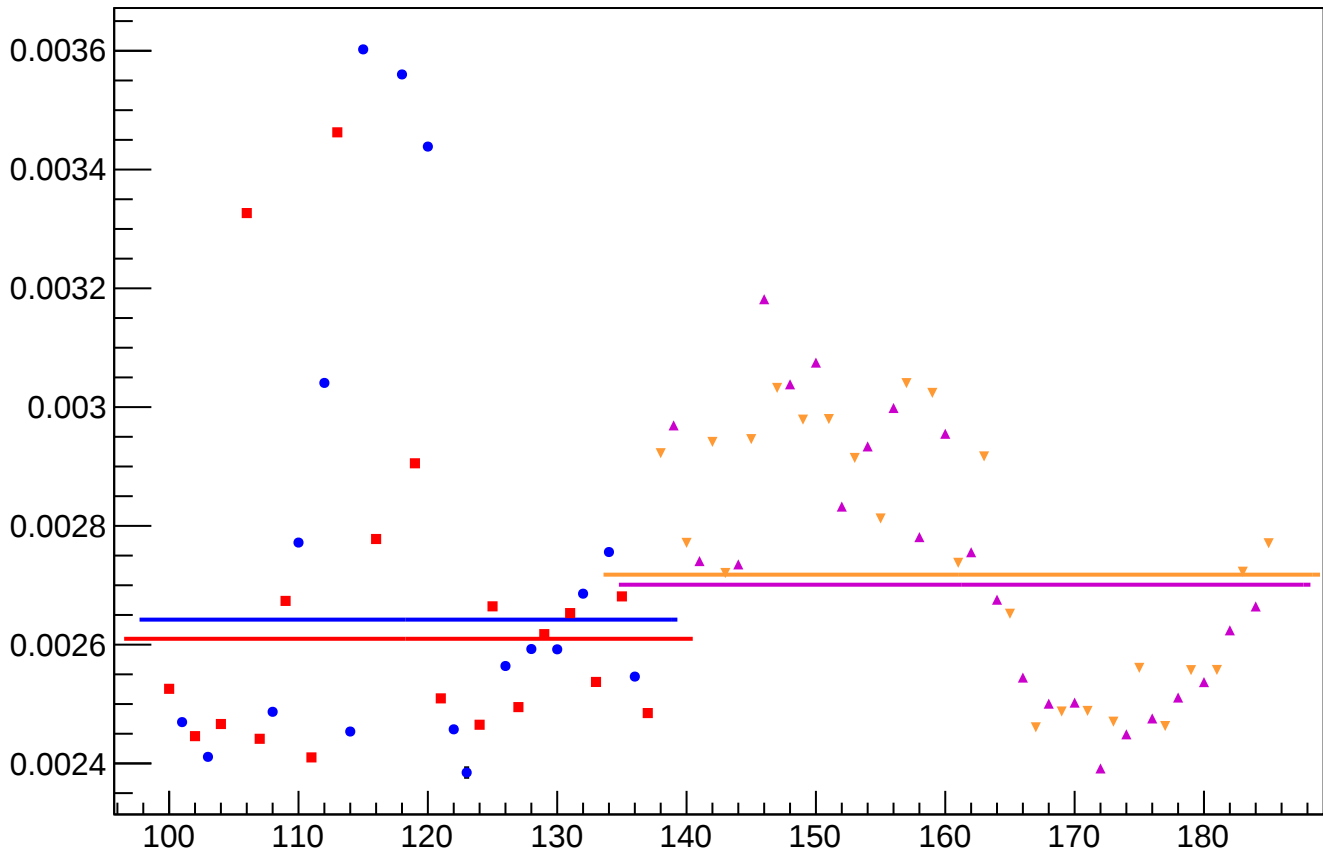
Right: -1.593+/-0.000 χ^2/NDF : 284153928526.3/35

In: -1.737+/-0.000 χ^2/NDF : 322545853944.5/39

Out: -1.734+/-0.000 χ^2/NDF : 356445922204.9/43

All: -1.735+/-0.000 χ^2/NDF : 679007879731.3

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 : 199657.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 104781.3/18

Left In: 0.003+/-0.000 χ^2/NDF : 220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420647.2/47

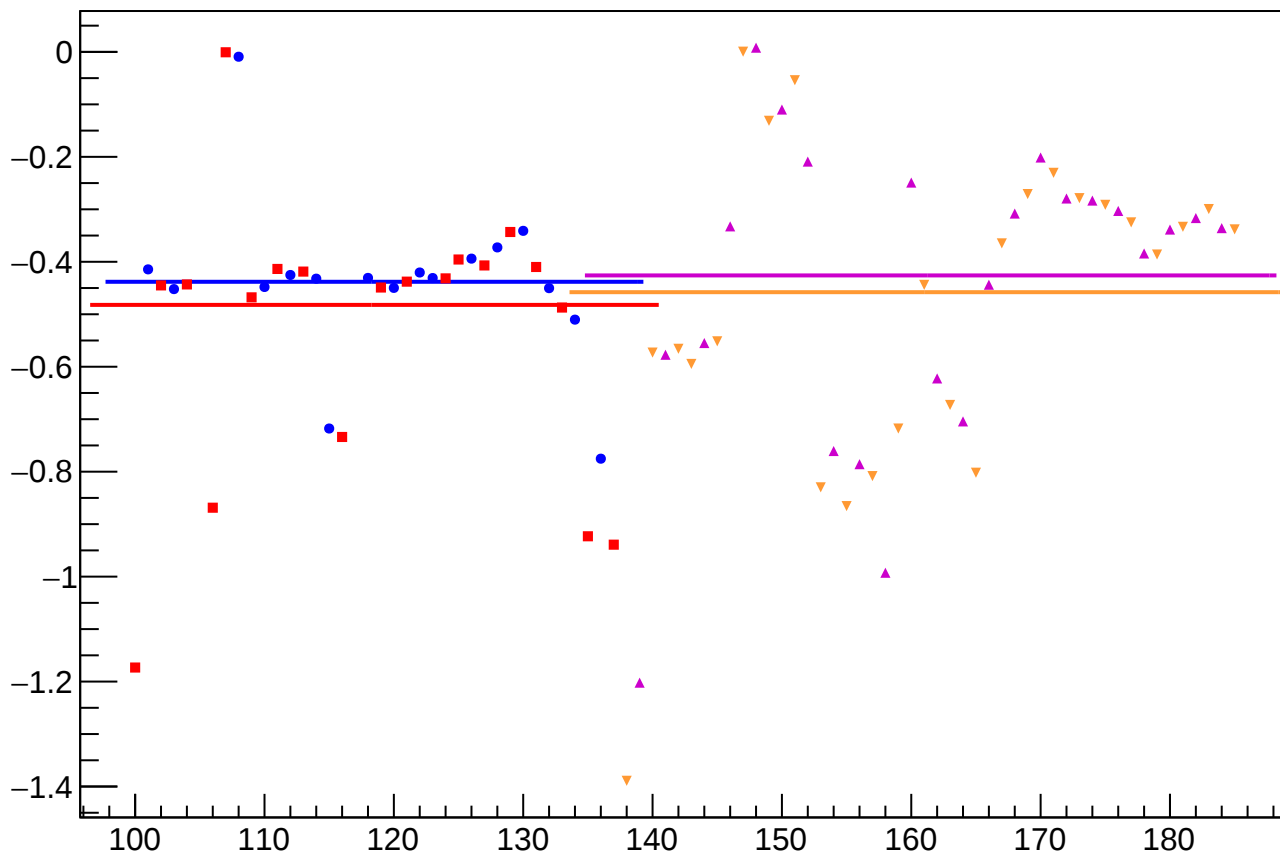
Right: 0.003+/-0.000 χ^2/NDF : 257674.4/35

In: 0.003+/-0.000 χ^2/NDF : 376689.7/39

Out: 0.003+/-0.000 χ^2/NDF : 320543.2/43

All: 0.003+/-0.000 χ^2/NDF : 697244.2/83

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1461198978.4/16

Left Out: -0.458+/-0.000 χ^2/NDF : 9903817652.3/24

Right Out: -0.482+/-0.000 χ^2/NDF : 2693383941.7/18

Left In: -0.426+/-0.000 χ^2/NDF : 8424222576.0/22

Left: -0.442+/-0.000 χ^2/NDF : 18386921246.8/47

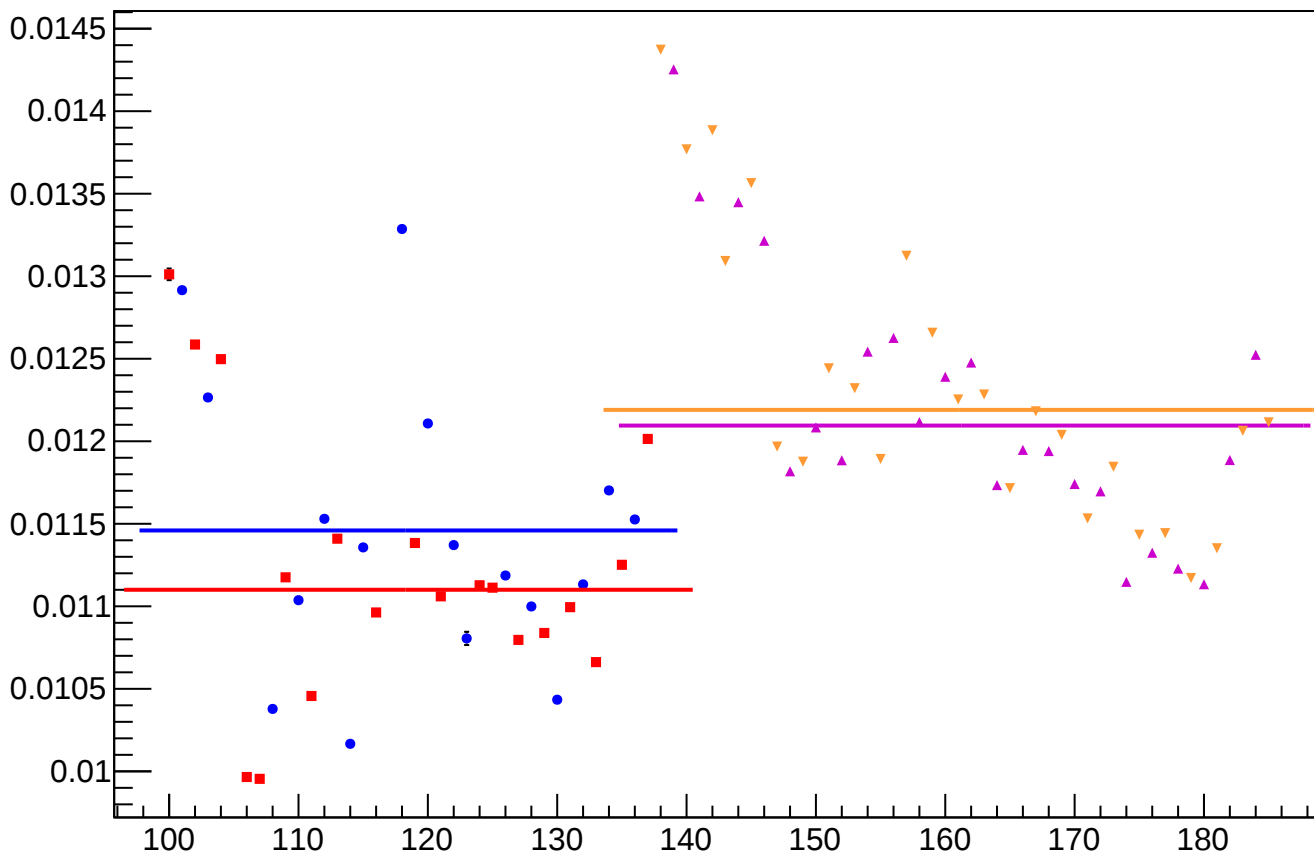
Right: -0.462+/-0.000 χ^2/NDF : 4205367960.5/35

In: -0.430+/-0.000 χ^2/NDF : 9890462777.8/39

Out: -0.466+/-0.000 χ^2/NDF : 12619491501.9/43

All: -0.448+/-0.000 χ^2/NDF : 22619380972.6/100

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 :139244.5/24

Right Out: 0.011+/-0.000 χ^2/NDF : 56096.3/18

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 267598.2/47

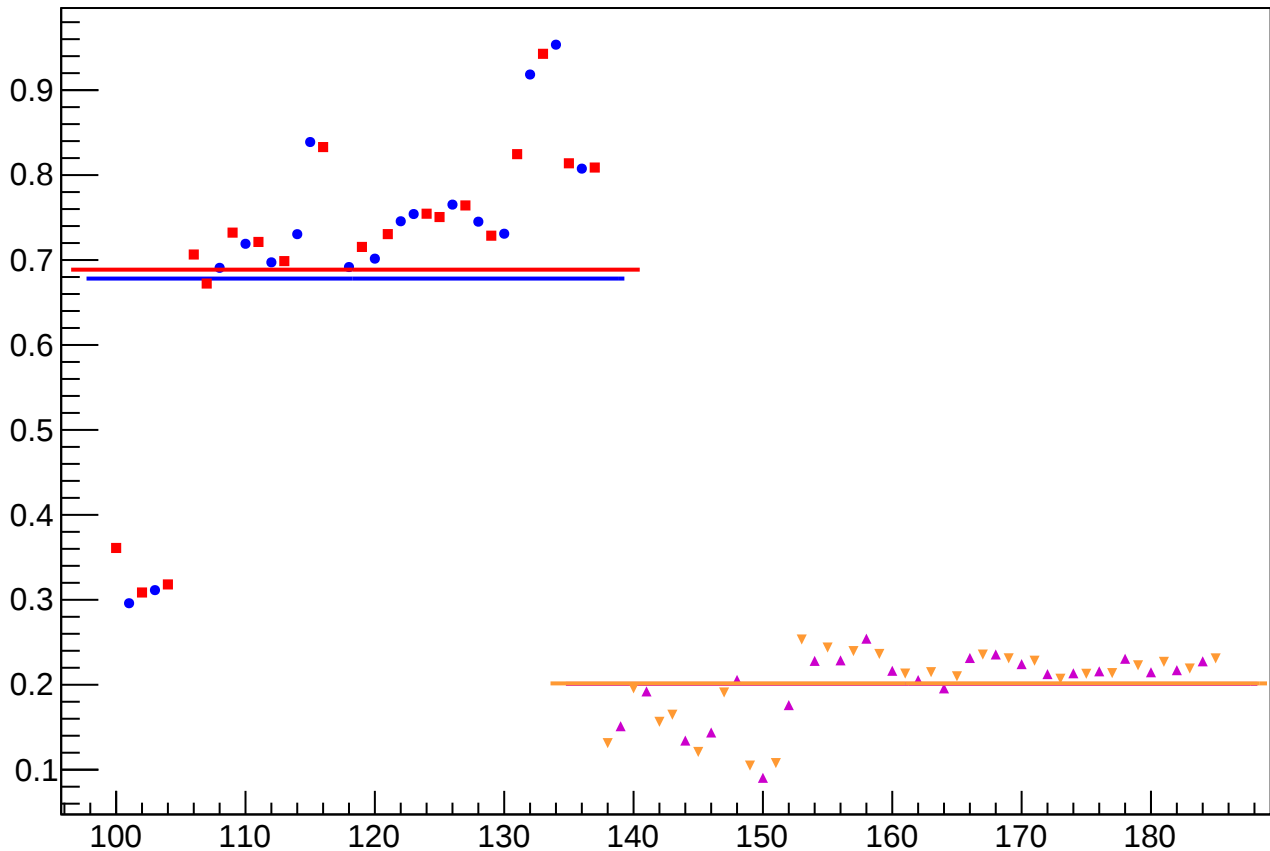
Right: 0.011+/-0.000 χ^2/NDF : 127449.6/35

In: 0.012+/-0.000 χ^2/NDF :219579.9/39

Out: 0.012+/-0.000 χ^2/NDF :285606.6/43

All: 0.012+/-0.000 χ^2/NDF : 505897.7/83

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2/NDF : 38485337866.0/16

Left Out: 0.202 $\pm$ 0.000 χ^2/NDF : 7040794268.2/24

Right Out: 0.689 $\pm$ 0.000 χ^2/NDF : 35296354242.4/18

Left In: 0.201 $\pm$ 0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2/NDF : 12713155213.8/47

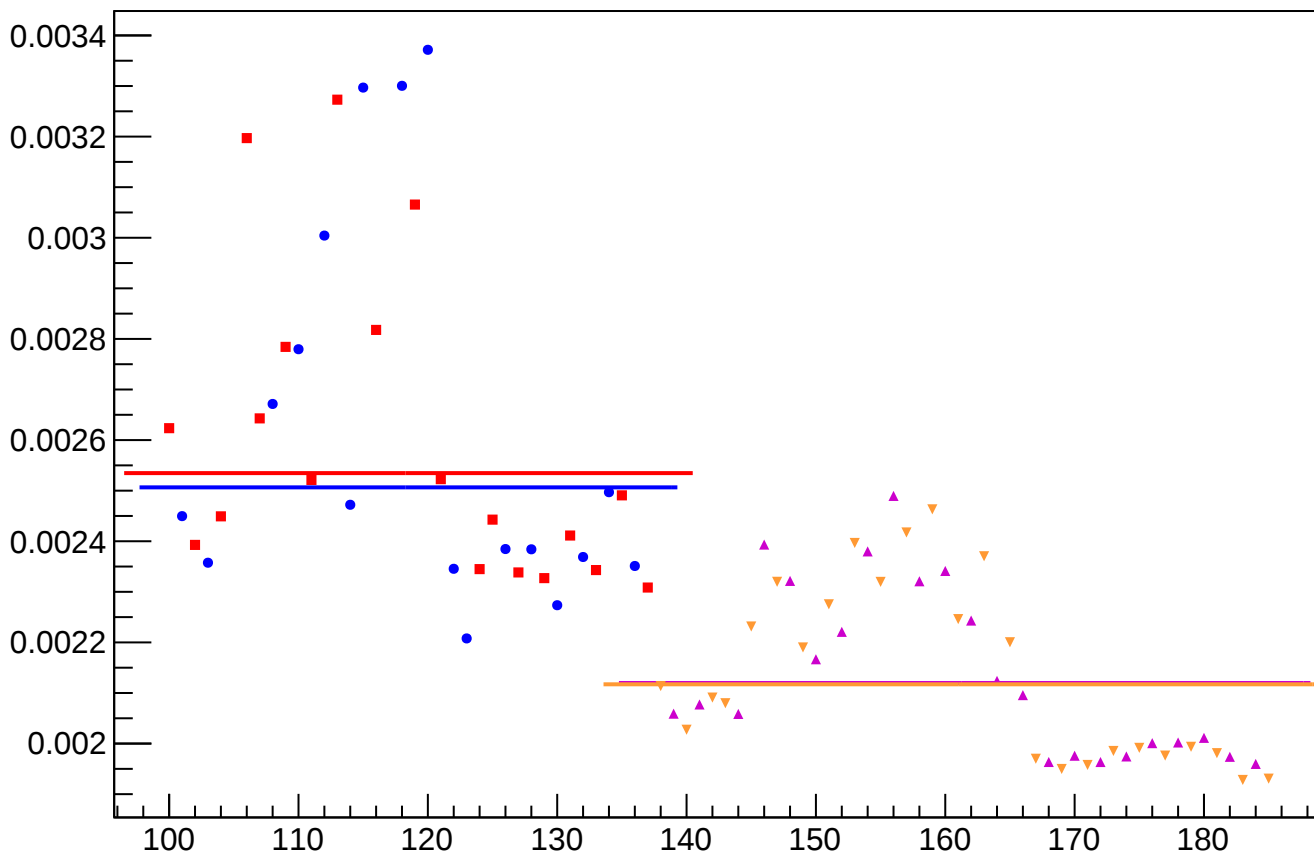
Right: 0.683 $\pm$ 0.000 χ^2/NDF : 73838176834.0/35

In: 0.301 $\pm$ 0.000 χ^2/NDF : 225922604984.4/39

Out: 0.302 $\pm$ 0.000 χ^2/NDF : 238270031412.5/43

All: 0.301 $\pm$ 0.000 χ^2/NDF : 464193608896.2

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 :223895.6/24

Right Out: 0.003+/-0.000 χ^2/NDF : 131675.7/18

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413151.3/47

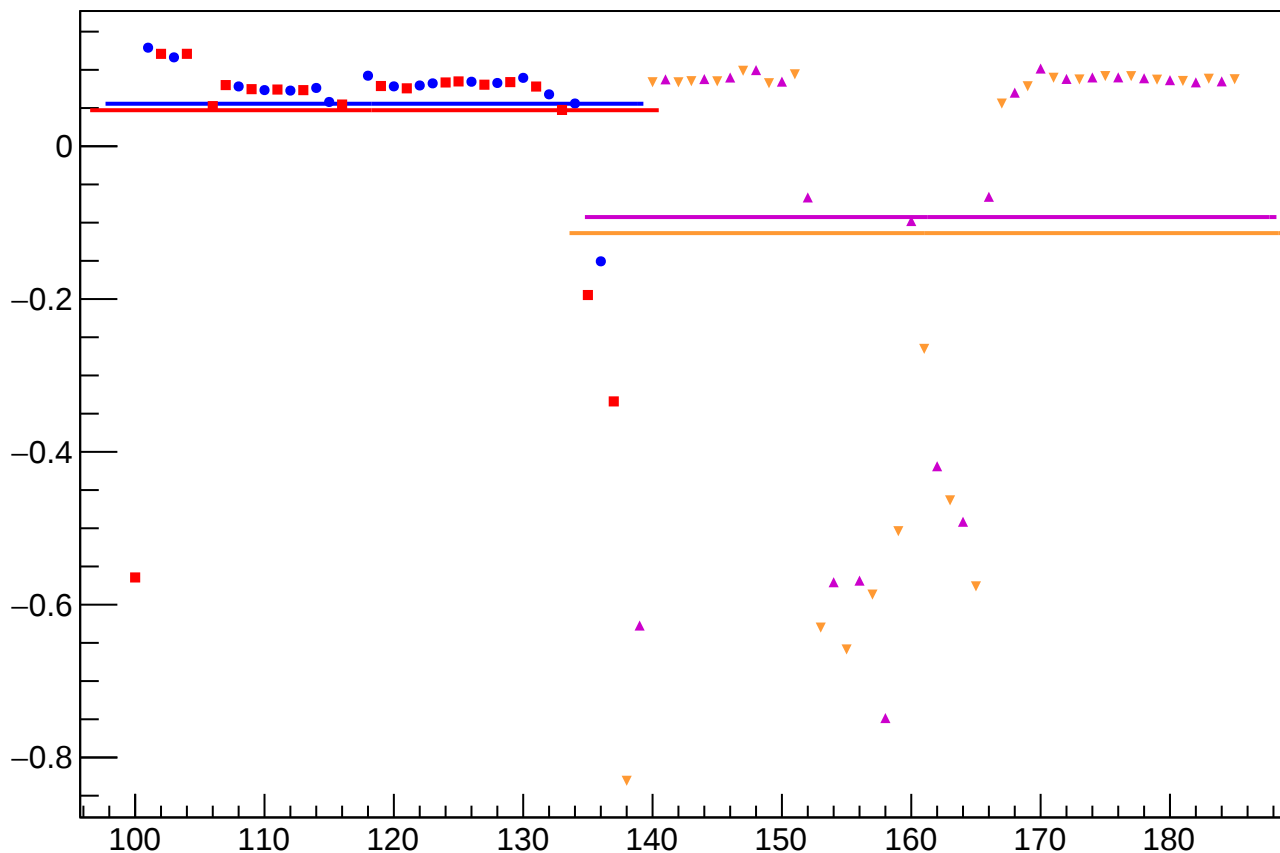
Right: 0.003+/-0.000 χ^2/NDF : 306887.9/35

In: 0.002+/-0.000 χ^2/NDF :602469.5/39

Out: 0.002+/-0.000 χ^2/NDF :643559.8/43

All: 0.002+/-0.000 χ^2/NDF : 1246051.3/83

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 422754930.4/16

Left: -0.103+/-0.000

χ^2/NDF : 24724600090.3/47

Left Out: -0.114+/-0.000

χ^2/NDF : 13641437094.4/24

Right: 0.051+/-0.000

χ^2/NDF : 1244662333.3/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819330612.8/18

In: -0.044+/-0.000

χ^2/NDF : 12470184059.0/39

Out: -0.058+/-0.000

χ^2/NDF : 15761191373.0/43

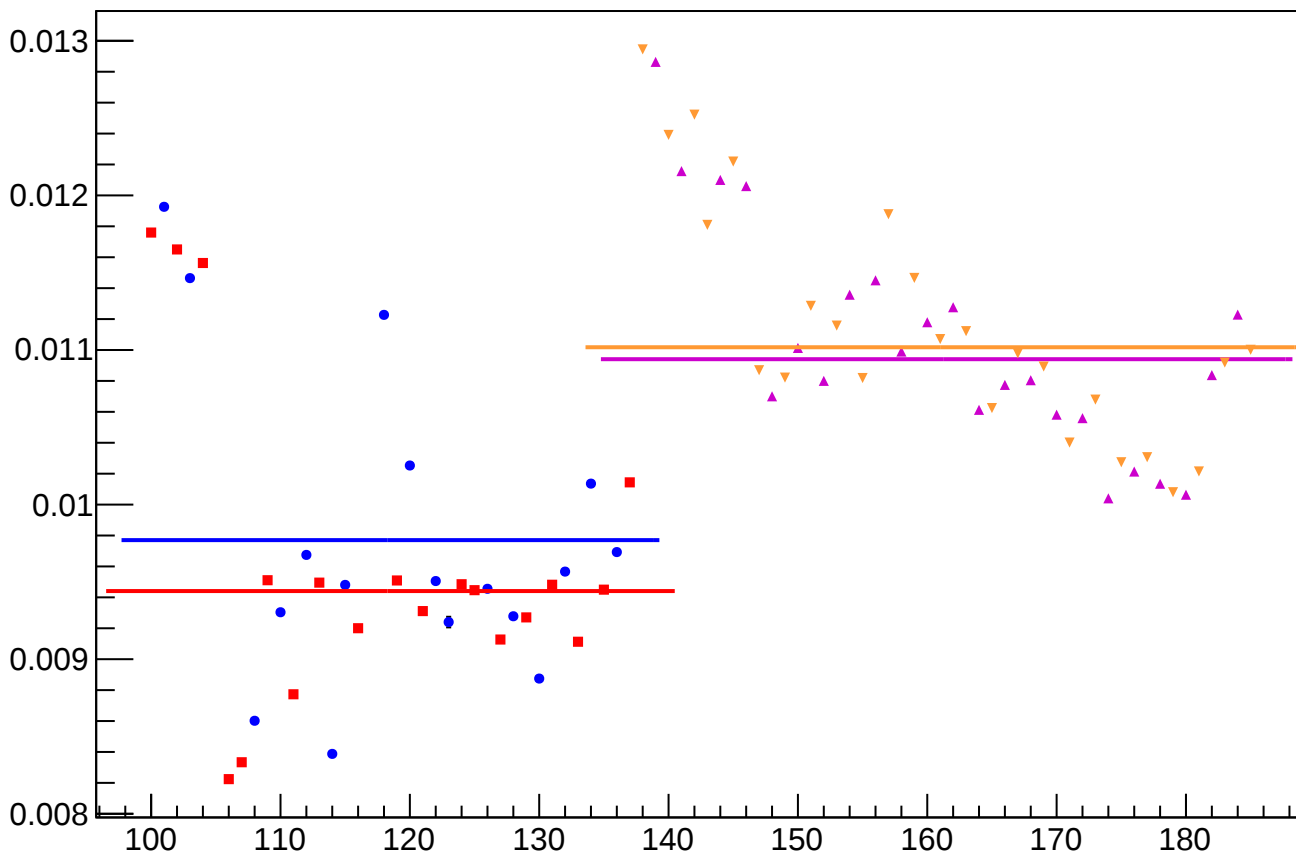
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: -0.051+/-0.000

χ^2/NDF : 28250284753.5/71

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:139096.8/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 110651.6/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 268855.0/47

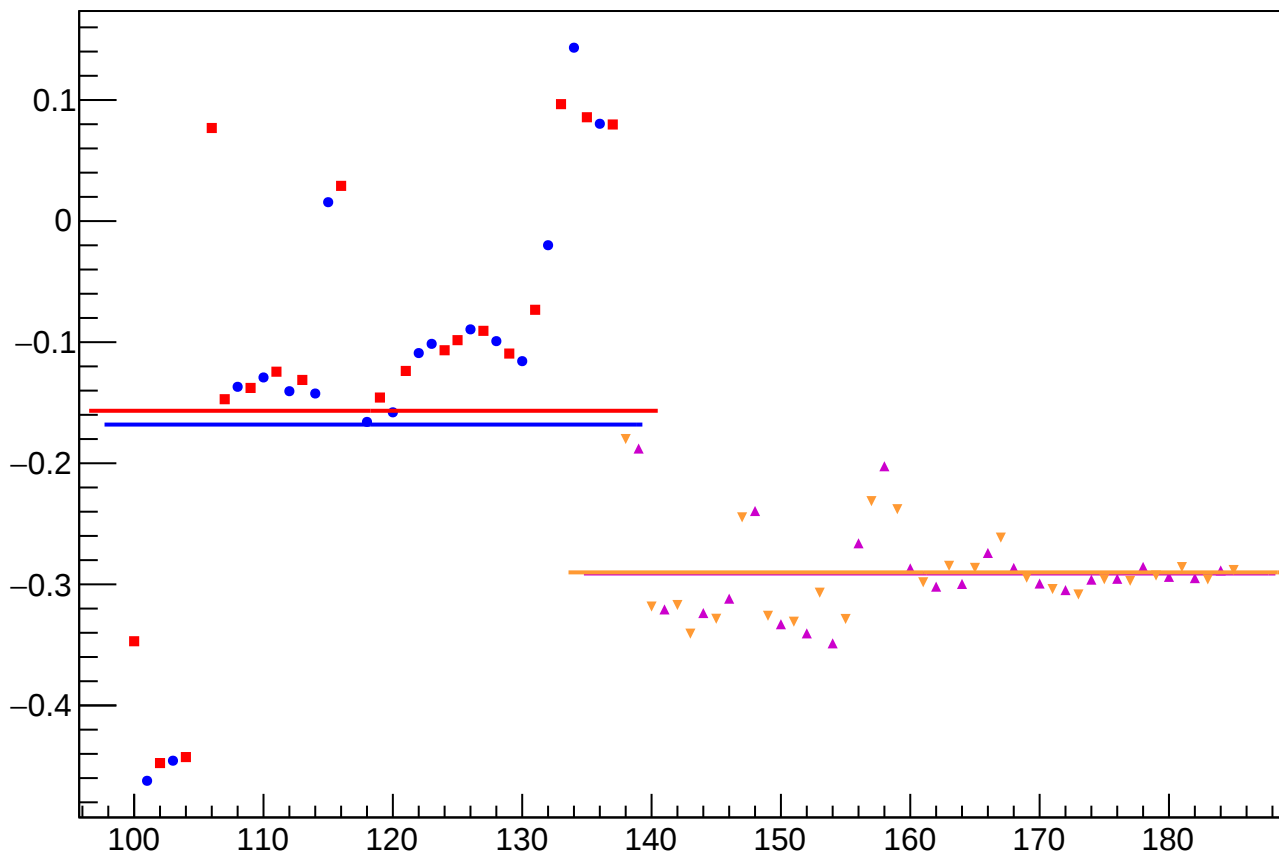
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 234461.4/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:368905.6/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:499746.0/43

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 870410.5/83

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12330177160.8/16

Left Out: -0.290+/-0.000 χ^2/NDF : 2862172282.6/24

Right Out: -0.157+/-0.000 χ^2/NDF : 11031837915.5/18

Left In: -0.291+/-0.000 χ^2/NDF : 3125402243.3/22

Left: -0.291+/-0.000 χ^2/NDF : 5988541060.5/47

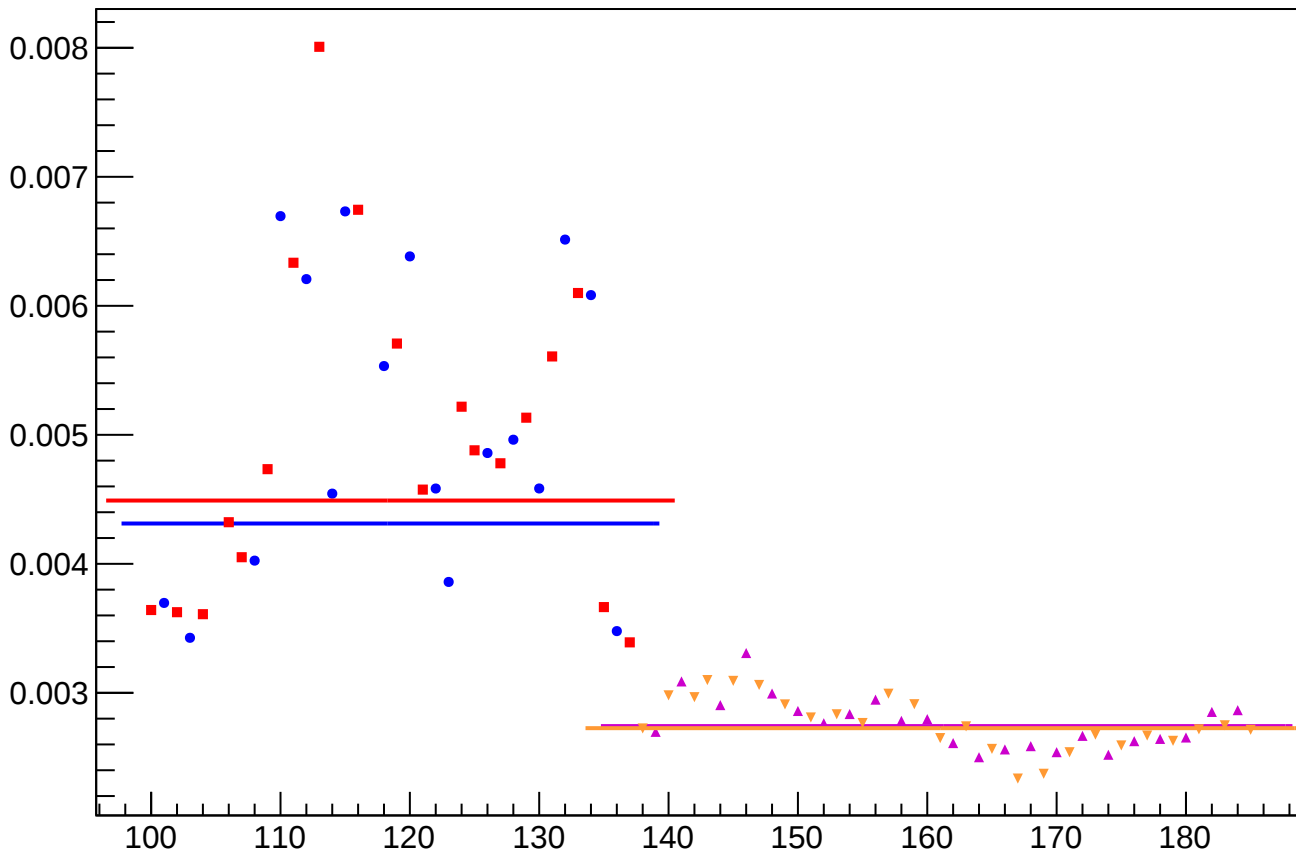
Right: -0.162+/-0.000 χ^2/NDF : 23382079796.3/35

In: -0.276+/-0.000 χ^2/NDF : 19577979631.0/39

Out: -0.275+/-0.000 χ^2/NDF : 18741954319.0/43

All: -0.275+/-0.000 χ^2/NDF : 38321565687.5/47

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 :198916.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 639258.5/18

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 347290.1/47

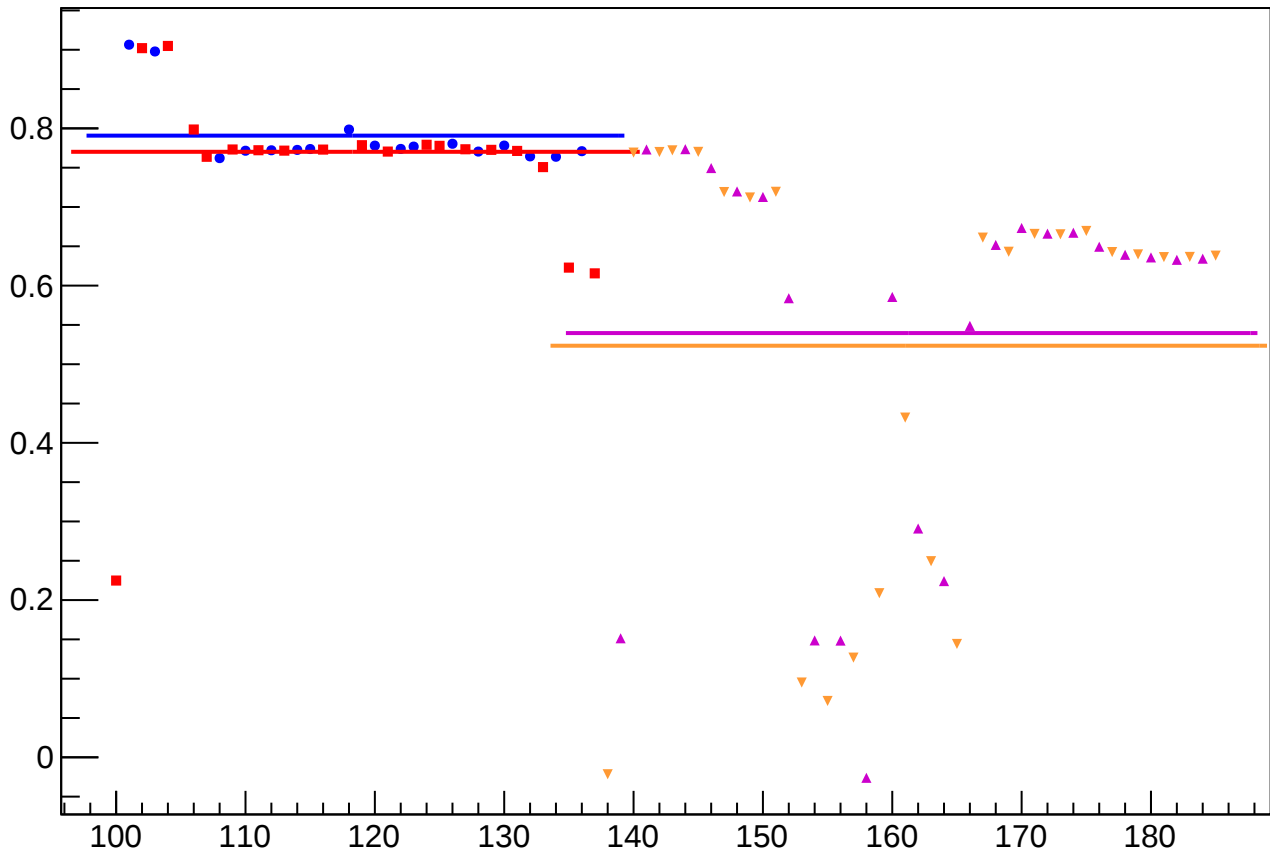
Right: 0.004+/-0.000 χ^2/NDF : 1267420.4/35

In: 0.003+/-0.000 χ^2/NDF :2109972.2/39

Out: 0.003+/-0.000 χ^2/NDF :2533025.5/43

All: 0.003+/-0.000 χ^2/NDF : 4643109.9/83

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106680493.2/16

Left Out: 0.524 $\pm$ 0.000 χ^2 /NDF: 9582668962.2/24

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375430167.7/18

Left In: 0.540 $\pm$ 0.000 χ^2 /NDF: 7860539135.5/22

Left: 0.531 $\pm$ 0.000 χ^2 /NDF: 17462476125.4/47

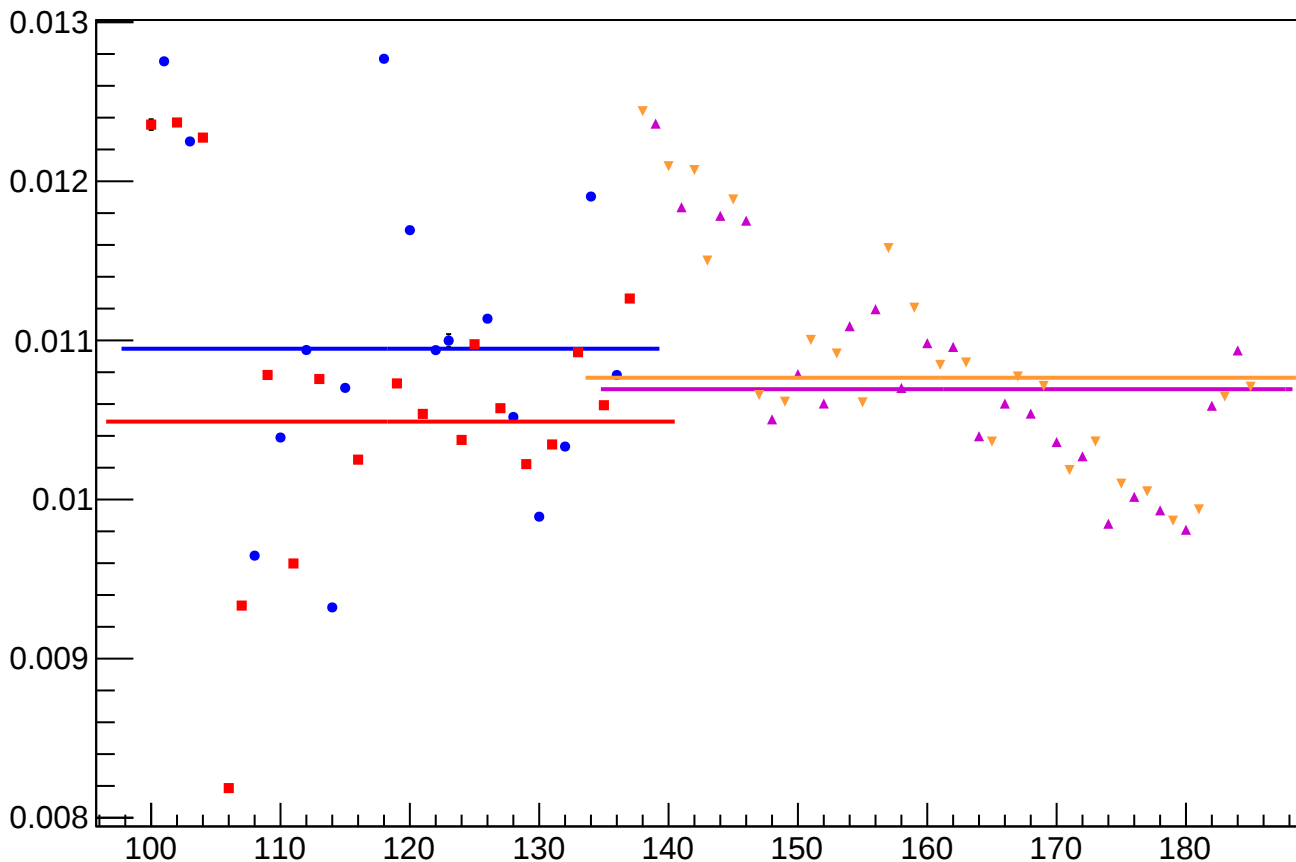
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494308734.2/35

In: 0.607 $\pm$ 0.000 χ^2 /NDF: 10438982186.9/39

Out: 0.595 $\pm$ 0.000 χ^2 /NDF: 12651482226.0/43

All: 0.601 $\pm$ 0.000 χ^2 /NDF: 23104318700.6/80

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 :129464.7/24

Right Out: 0.010+/-0.000 χ^2/NDF : 119502.0/18

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 249510.8/47

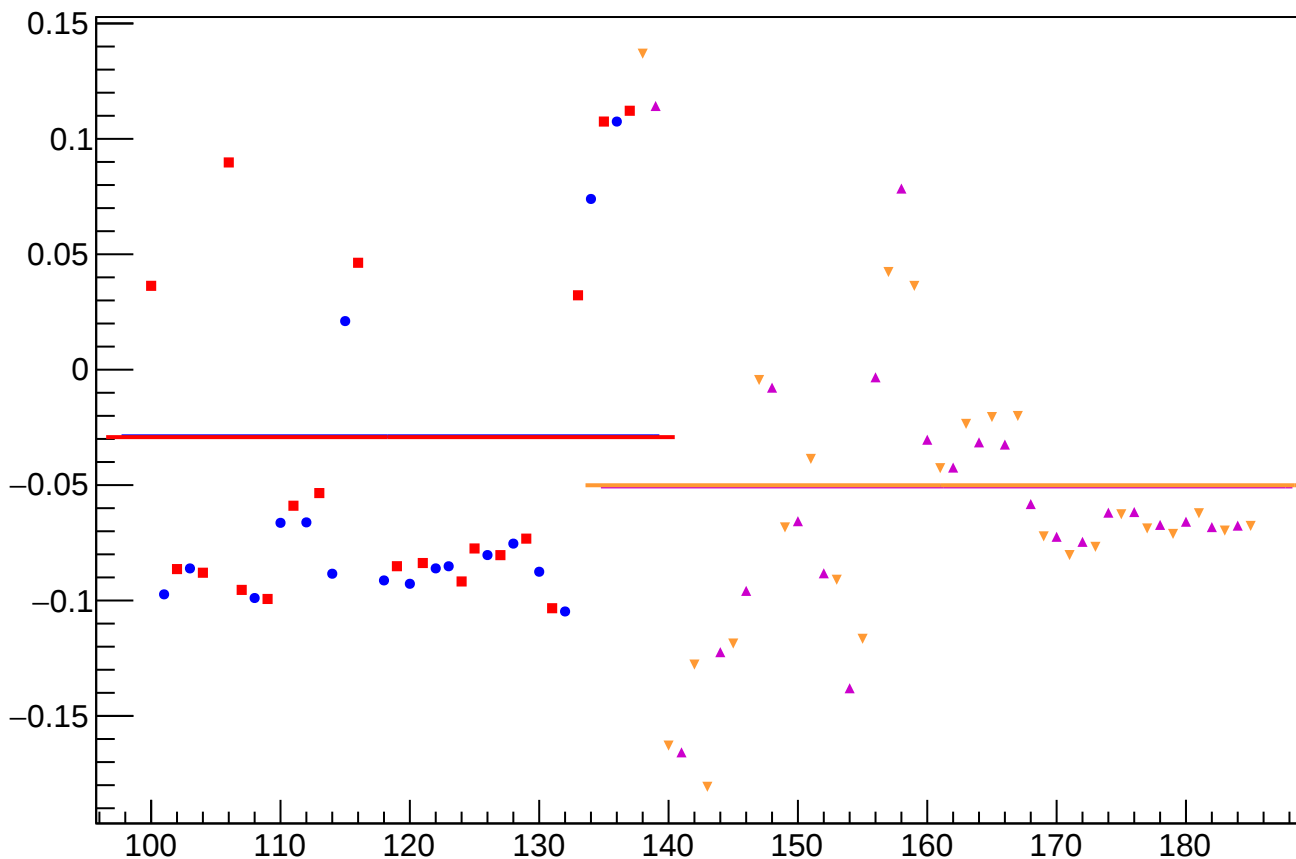
Right: 0.011+/-0.000 χ^2/NDF : 229626.3/35

In: 0.011+/-0.000 χ^2/NDF :222363.9/39

Out: 0.011+/-0.000 χ^2/NDF :255699.2/43

All: 0.011+/-0.000 χ^2/NDF : 479277.5/83

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 : 7216719112.6/24

Right Out: -0.029+/-0.000 χ^2/NDF : 2120368017.0/18

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13345728423.7/47

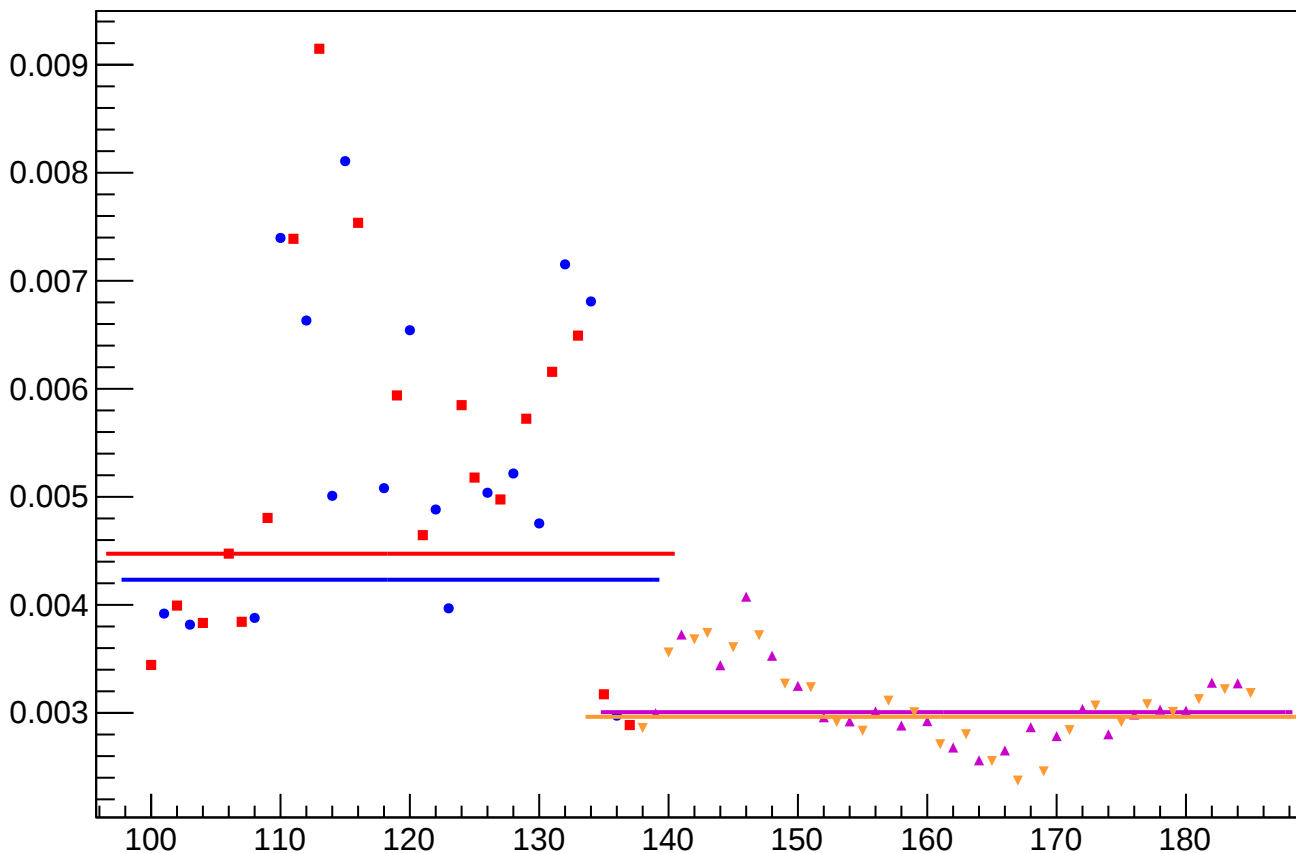
Right: -0.029+/-0.000 χ^2/NDF : 4565297950.1/35

In: -0.047+/-0.000 χ^2/NDF : 8696172072.2/39

Out: -0.047+/-0.000 χ^2/NDF : 9447282538.4/43

All: -0.047+/-0.000 χ^2/NDF : 18143459750.5/82

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 877339.5/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 482790.0/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 969342.1/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 329068.1/22

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 815347.1/47

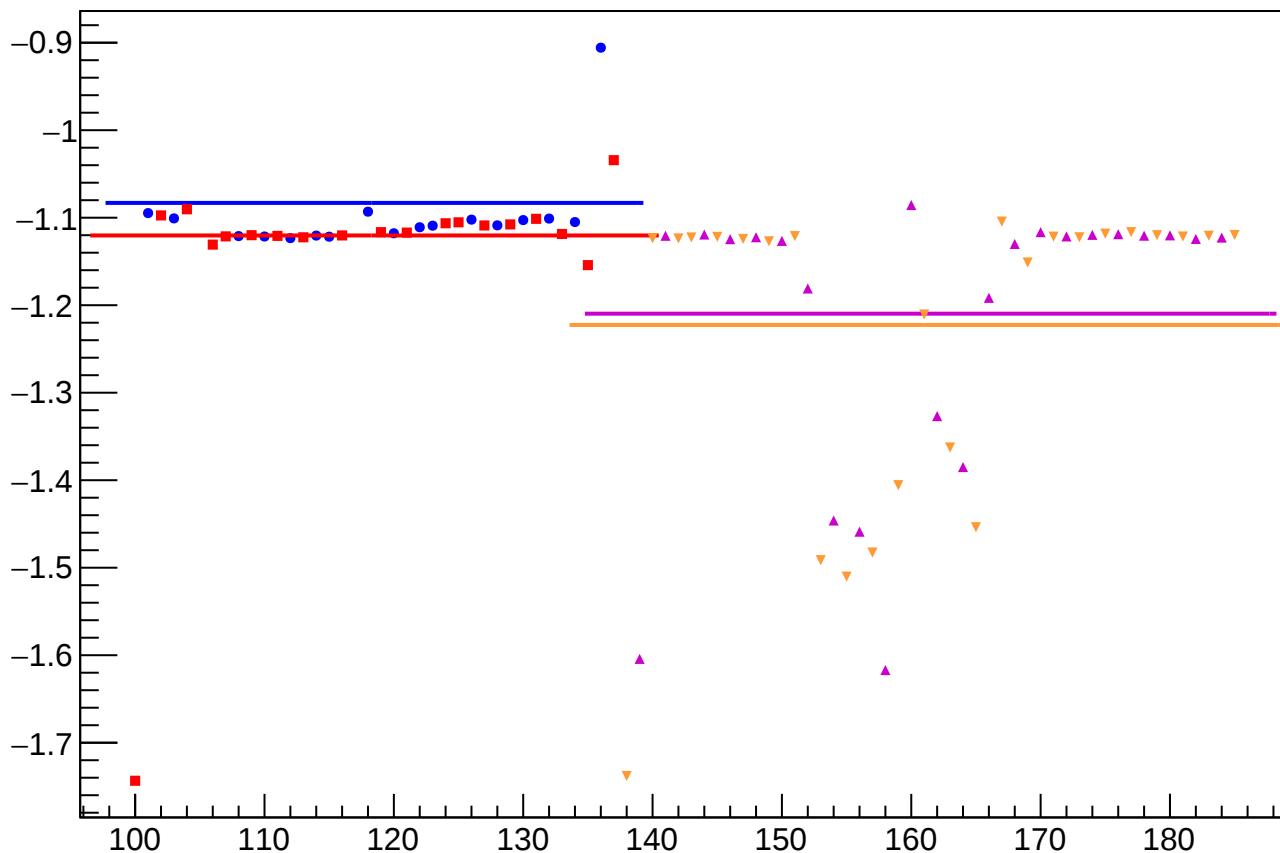
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1863934.2/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1986967.7/39

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 2607417.4/43

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 4595688.2/83

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202851874.4/16

Left Out: -1.223+/-0.000 χ^2/NDF : 5271276411.7/24

Right Out: -1.120+/-0.000 χ^2/NDF : 220508408.4/18

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9789036546.9/47

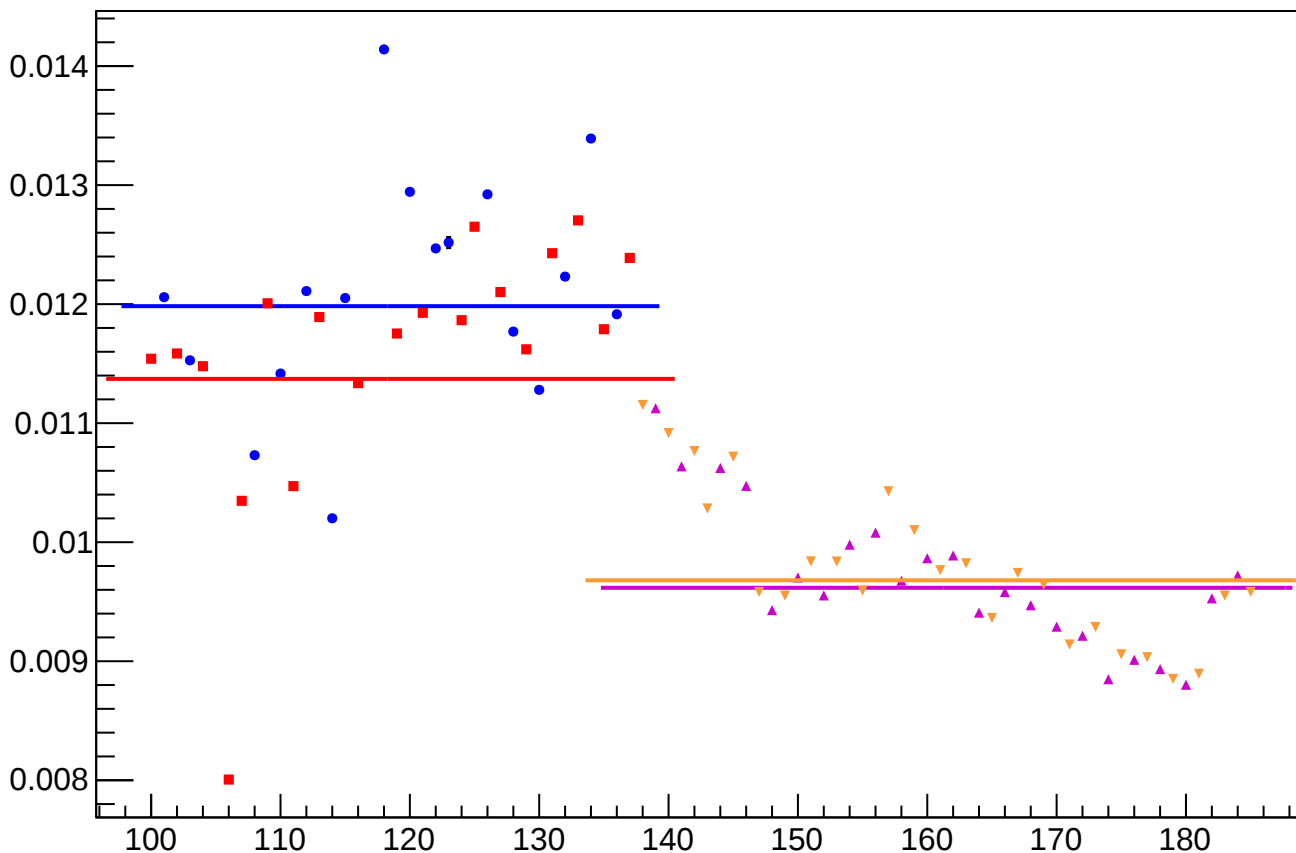
Right: -1.103+/-0.000 χ^2/NDF : 456843121.6/35

In: -1.185+/-0.000 χ^2/NDF : 5279660530.7/39

Out: -1.200+/-0.000 χ^2/NDF : 5923240368.1/43

All: -1.193+/-0.000 χ^2/NDF : 11231163349.7/77

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 58835.2/16

Left Out: 0.010+/-0.000 χ^2/NDF :132897.0/24

Right Out: 0.011+/-0.000 χ^2/NDF : 152861.8/18

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 253448.8/47

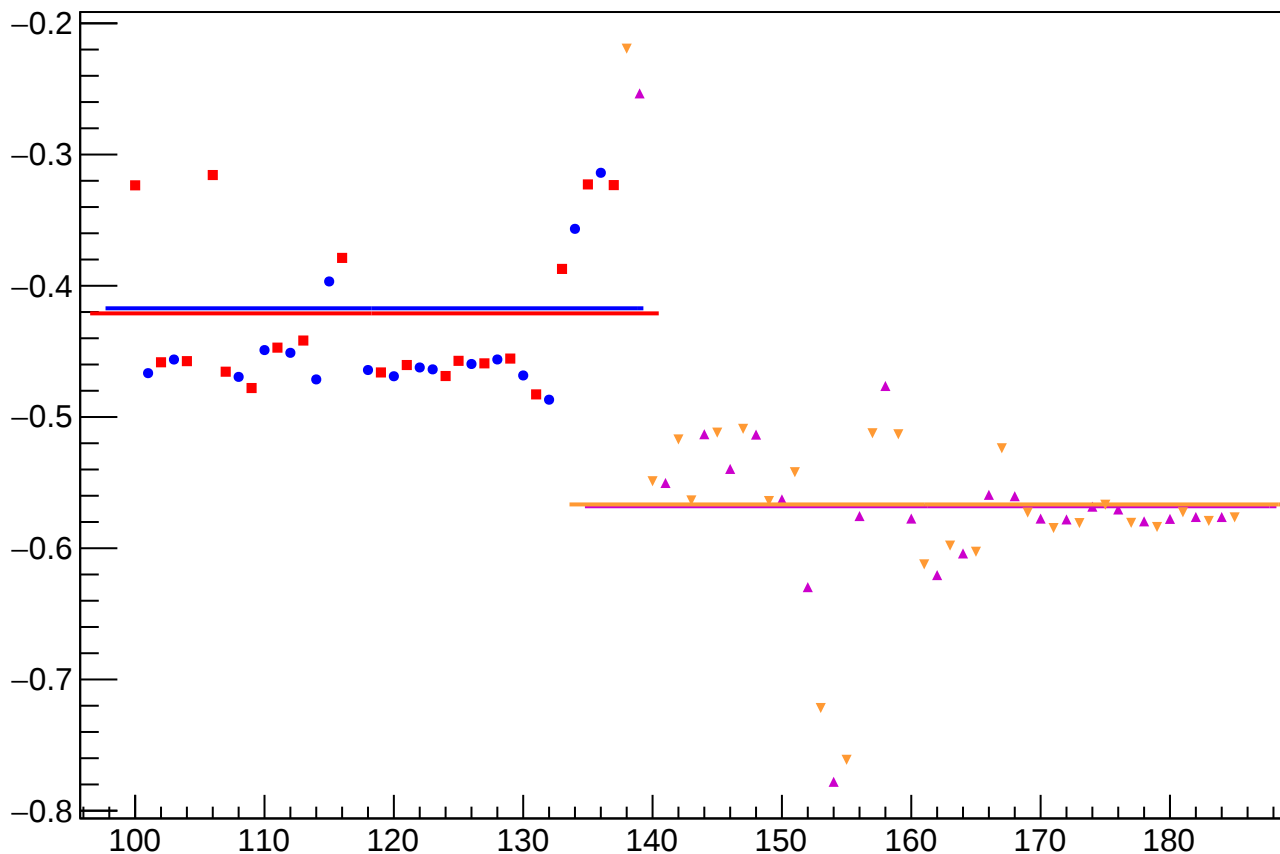
Right: 0.012+/-0.000 χ^2/NDF : 229751.2/35

In: 0.010+/-0.000 χ^2/NDF :579900.8/39

Out: 0.010+/-0.000 χ^2/NDF :521878.4/43

All: 0.010+/-0.000 χ^2/NDF : 1102063.4/83

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2038520950.9/16

Left Out: -0.567+/-0.000 χ^2/NDF : 13367990714.7/24

Right Out: -0.421+/-0.000 χ^2/NDF : 1654624022.3/18

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23828468255.6/47

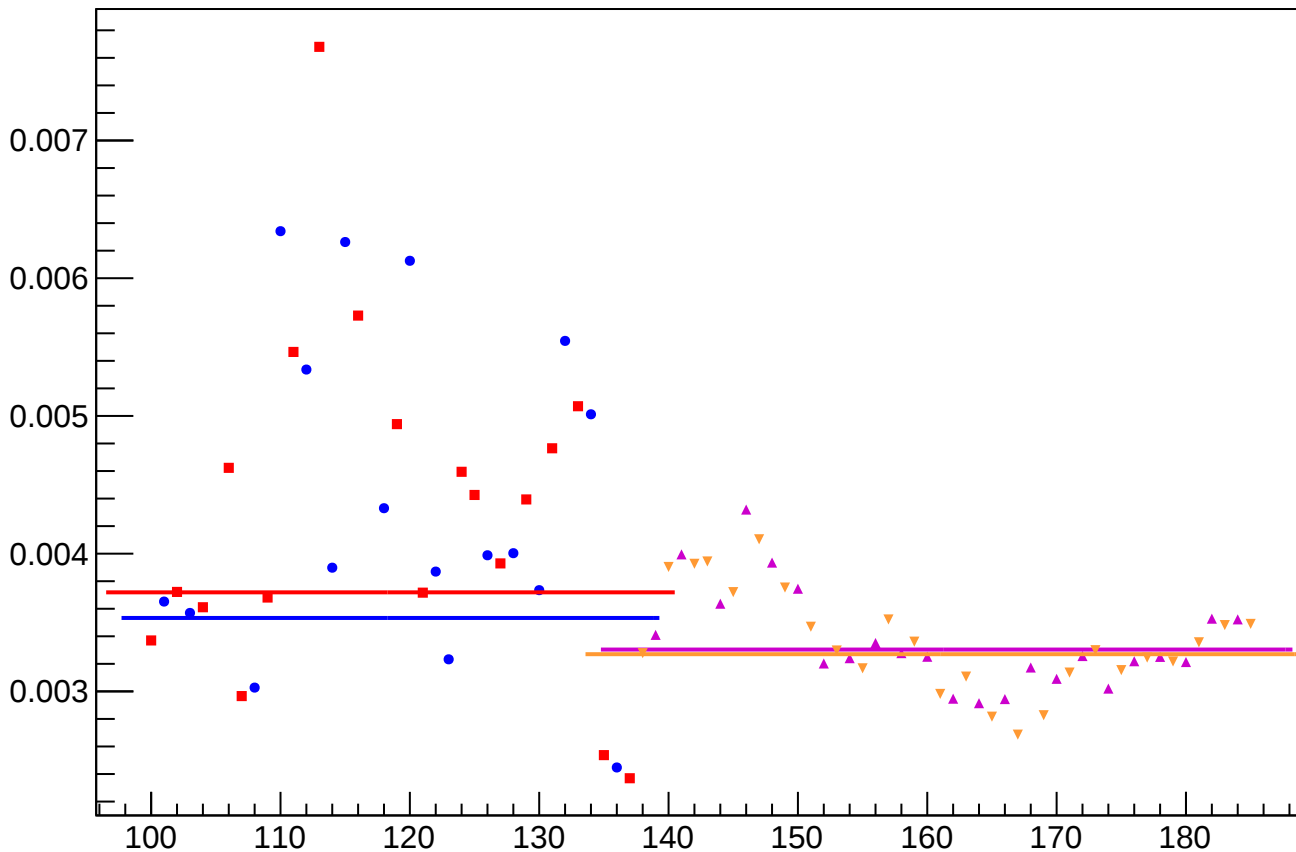
Right: -0.419+/-0.000 χ^2/NDF : 3696346160.6/35

In: -0.534+/-0.000 χ^2/NDF : 20132934095.6/39

Out: -0.536+/-0.000 χ^2/NDF : 22108426474.1/43

All: -0.535+/-0.000 χ^2/NDF : 42246894445.1/86

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 : 382538.4/24

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 884778.0/18

Left In: 0.003 $\pm$ 0.000 χ^2/NDF : 286064.1/22

Left: 0.003 $\pm$ 0.000 χ^2/NDF : 670345.3/47

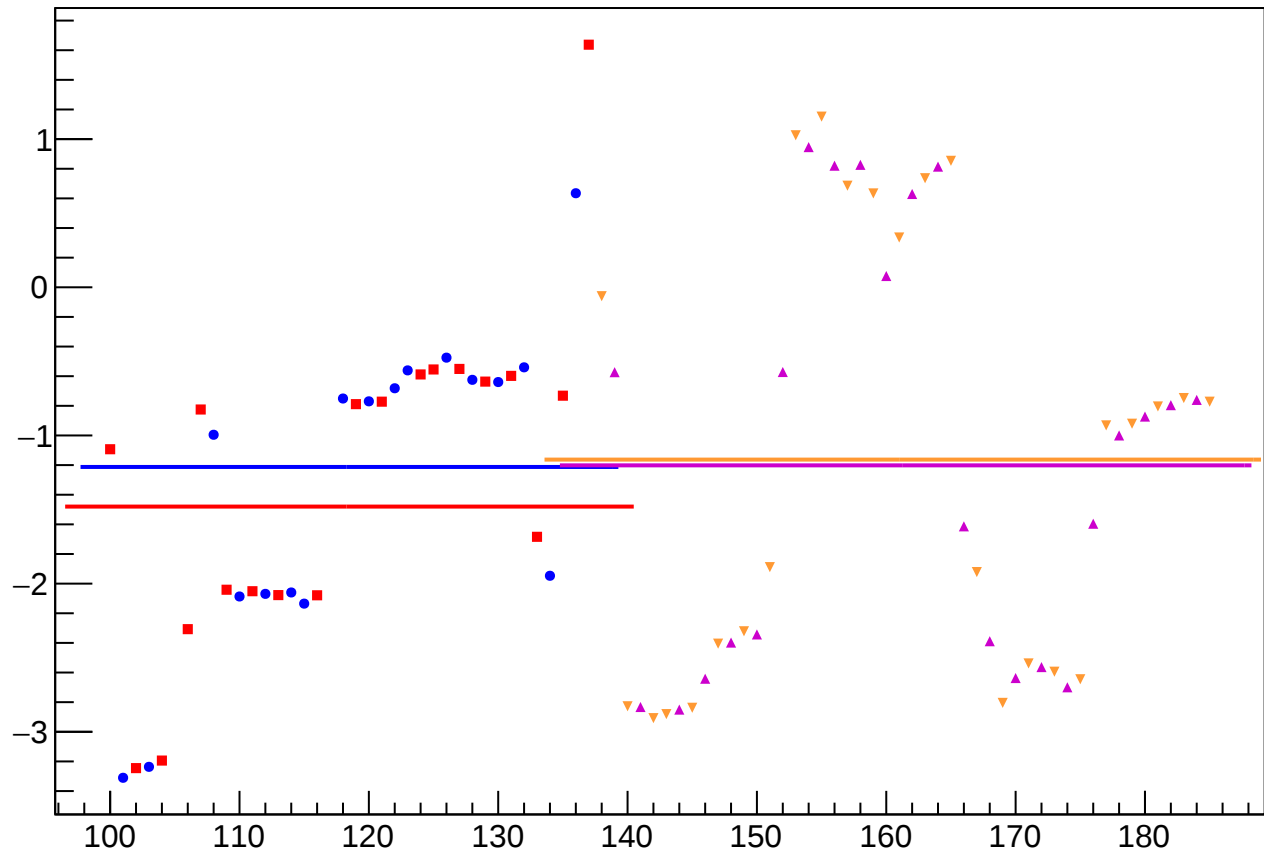
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 1731087.2/35

In: 0.003 $\pm$ 0.000 χ^2/NDF : 1152887.0/39

Out: 0.003 $\pm$ 0.000 χ^2/NDF : 1402151.9/43

All: 0.003 $\pm$ 0.000 χ^2/NDF : 2555172.0/83

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.213 ± 0.000 $\chi^2/\text{NDF}: 1991015908.7/16$

Left Out: -1.163 ± 0.000 $\chi^2/\text{NDF}: 6819984095.5/24$

Right Out: -1.480 ± 0.000 $\chi^2/\text{NDF}: 1576057924.8/18$

Left In: -1.202 ± 0.000 $\chi^2/\text{NDF}: 5606782515.9/22$

Left: -1.182 ± 0.000 $\chi^2/\text{NDF}: 12429267704.1/47$

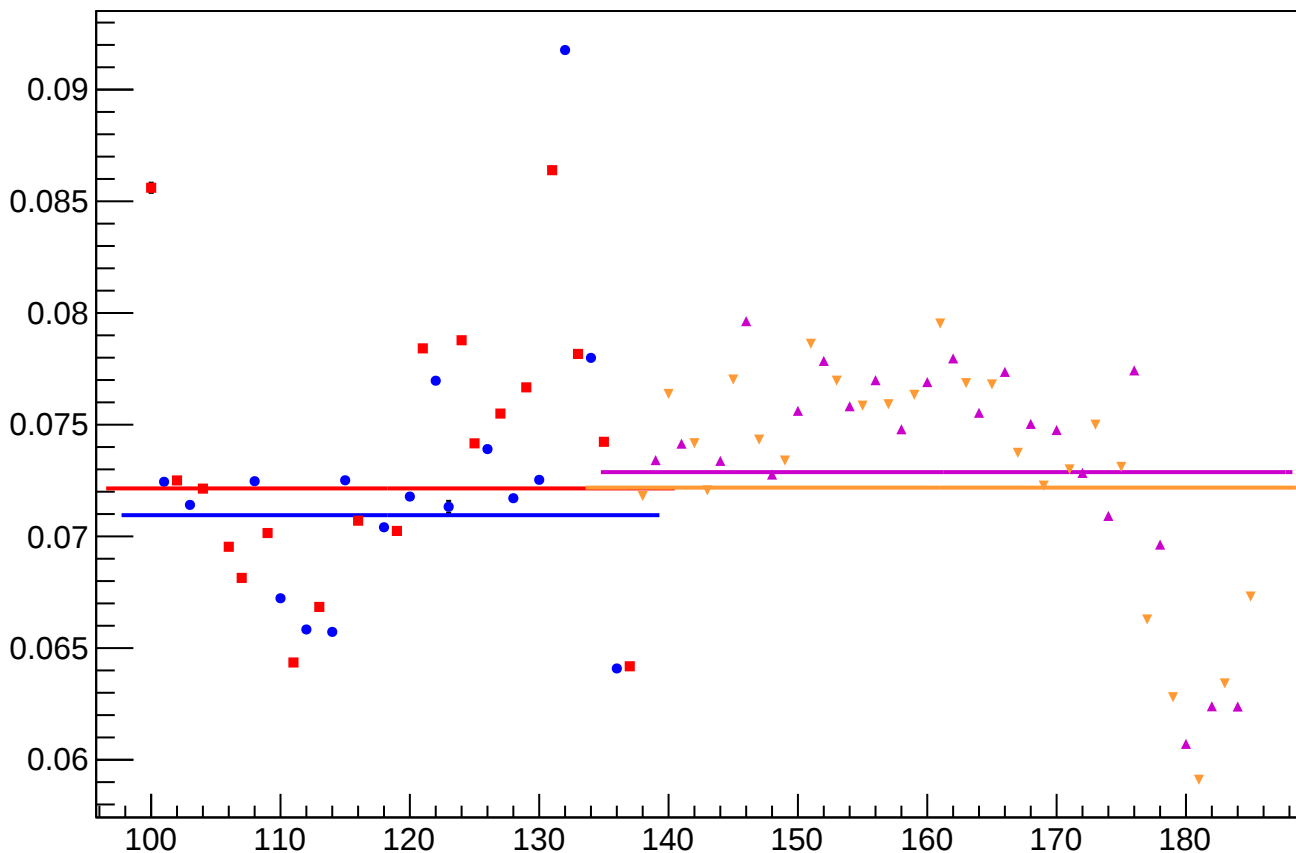
Right: -1.348 ± 0.000 $\chi^2/\text{NDF}: 3614167453.1/35$

In: -1.205 ± 0.000 $\chi^2/\text{NDF}: 7597905579.7/39$

Out: -1.251 ± 0.000 $\chi^2/\text{NDF}: 8492619069.8/43$

All: -1.229 ± 0.000 $\chi^2/\text{NDF}: 16095548449.1/100$

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 : 221718.3/24

Right Out: 0.072+/-0.000 χ^2/NDF : 69021.6/18

Left In: 0.073+/-0.000 χ^2/NDF : 183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 406817.5/47

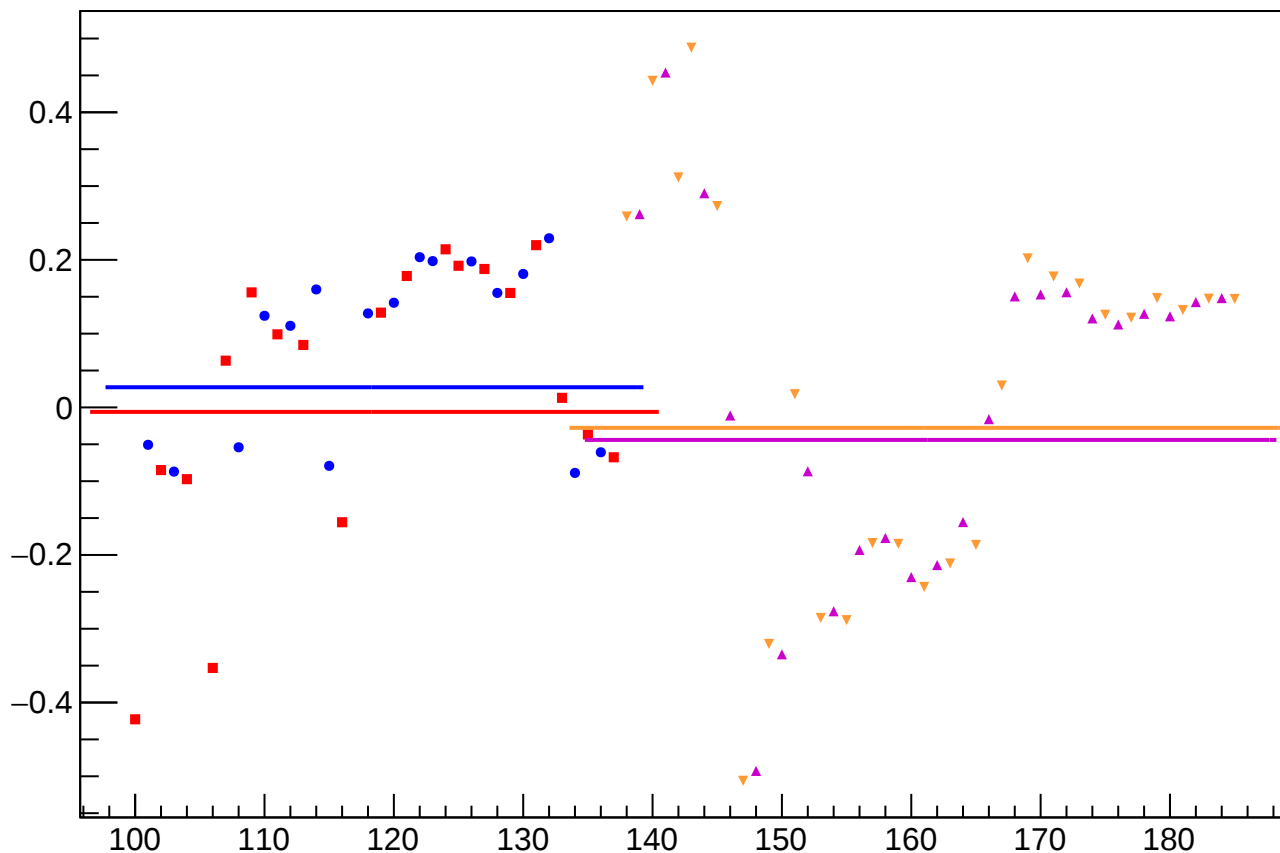
Right: 0.072+/-0.000 χ^2/NDF : 148058.9/35

In: 0.072+/-0.000 χ^2/NDF : 267516.7/39

Out: 0.072+/-0.000 χ^2/NDF : 290742.3/43

All: 0.072+/-0.000 χ^2/NDF : 558358.0/83

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562065478.3/16

Left: -0.036+/-0.000

χ^2/NDF : 36008840995.8/47

Left Out: -0.028+/-0.000

χ^2/NDF : 20241949236.7/24

Right: 0.011+/-0.000

χ^2/NDF : 1791947690.0/35

Right Out: -0.006+/-0.000

χ^2/NDF : 1205303430.4/18

In: -0.036+/-0.000

χ^2/NDF : 16478547890.4/39

Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

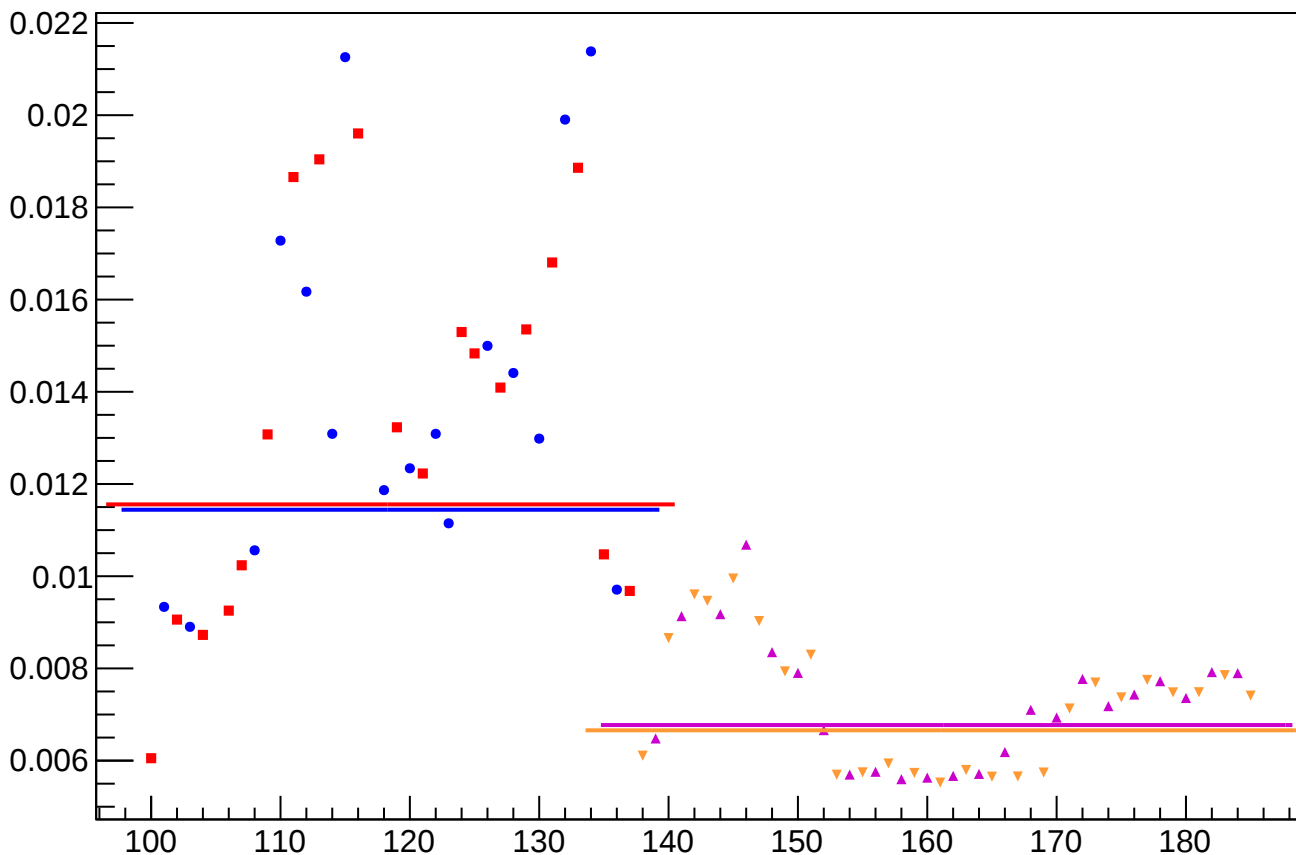
Out: -0.025+/-0.000

χ^2/NDF : 21465763453.7/43

All: -0.030+/-0.000

χ^2/NDF : 37967093540.0/100

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 : 1116303.2/24

Right Out: 0.012 ± 0.000 χ^2/NDF : 979298.5/18

Left In: 0.007 ± 0.000 χ^2/NDF : 934050.3/22

Left: 0.007 ± 0.000 χ^2/NDF : 2055062.9/47

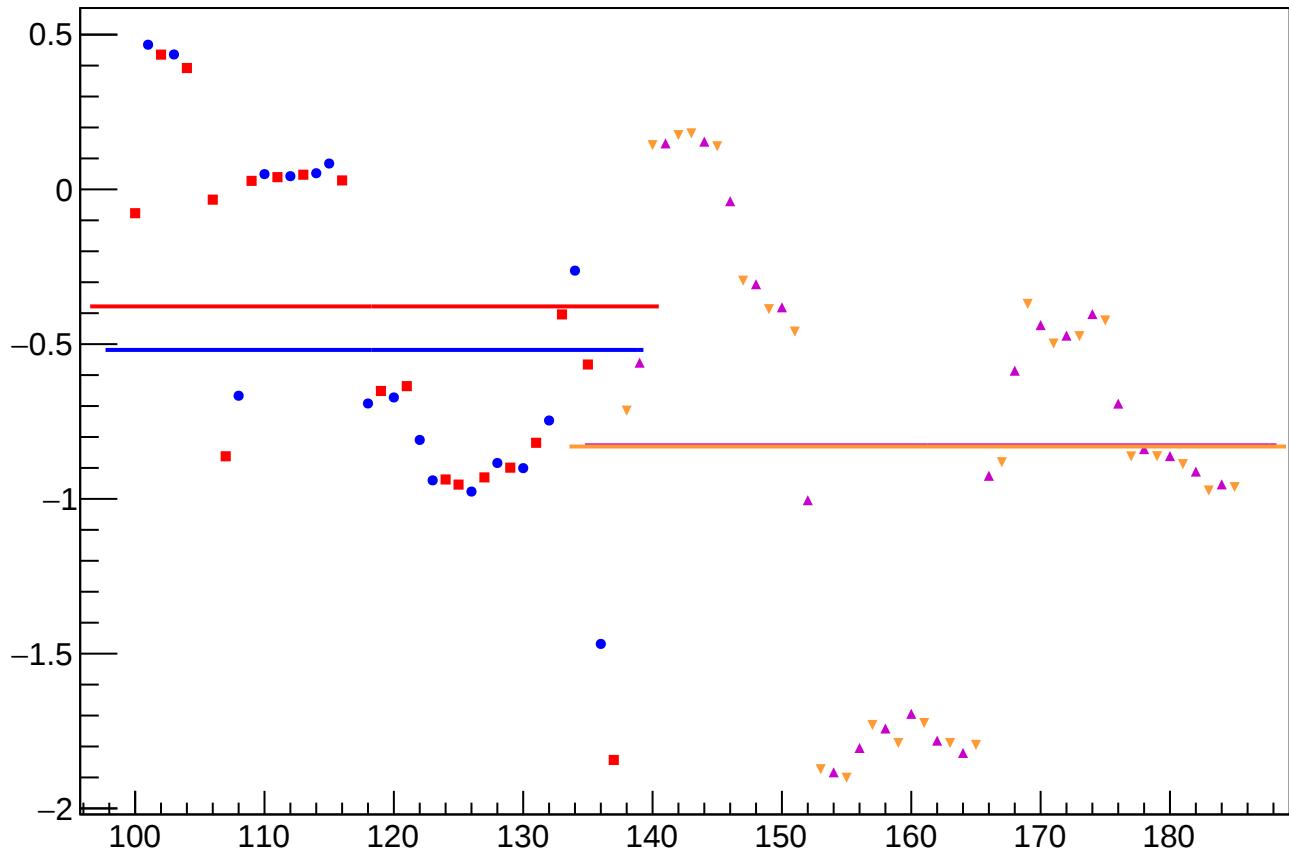
Right: 0.012 ± 0.000 χ^2/NDF : 1653627.3/35

In: 0.007 ± 0.000 χ^2/NDF : 3302327.5/39

Out: 0.007 ± 0.000 χ^2/NDF : 4001085.9/43

All: 0.007 ± 0.000 χ^2/NDF : 7309705.9/83

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519+/-0.000 χ^2/NDF : 338707442.0/16

Left Out: -0.831+/-0.000 χ^2/NDF : 1086494732.5/24

Right Out: -0.378+/-0.000 χ^2/NDF : 267921889.8/18

Left In: -0.827+/-0.000 χ^2/NDF : 921651117.3/22

Left: -0.829+/-0.000 χ^2/NDF : 2008163132.3/47

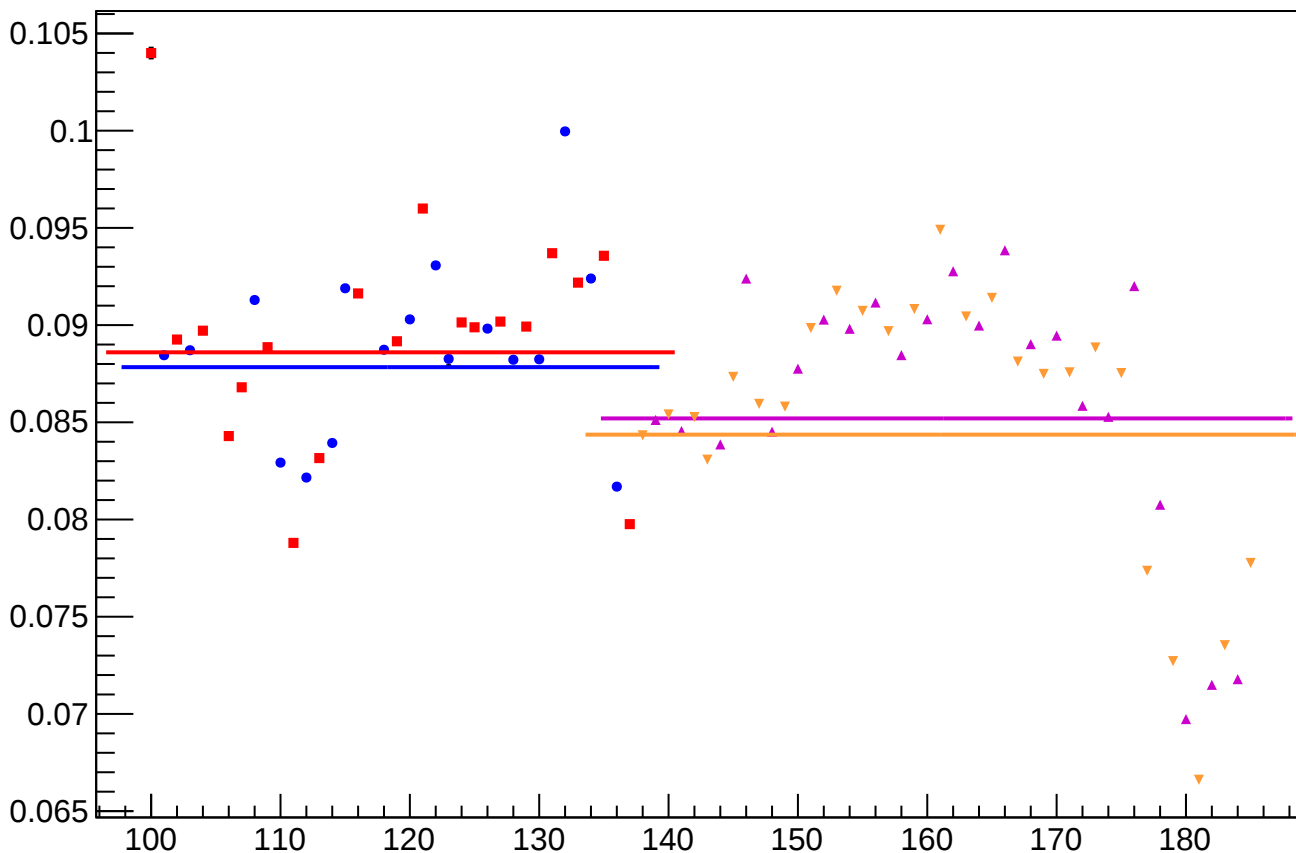
Right: -0.447+/-0.000 χ^2/NDF : 615340967.5/35

In: -0.744+/-0.000 χ^2/NDF : 1320411453.2/39

Out: -0.712+/-0.000 χ^2/NDF : 1490563520.9/43

All: -0.728+/-0.000 χ^2/NDF : 2812697796.7/8

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:287554.4/24

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 38932.4/18

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 527569.1/47

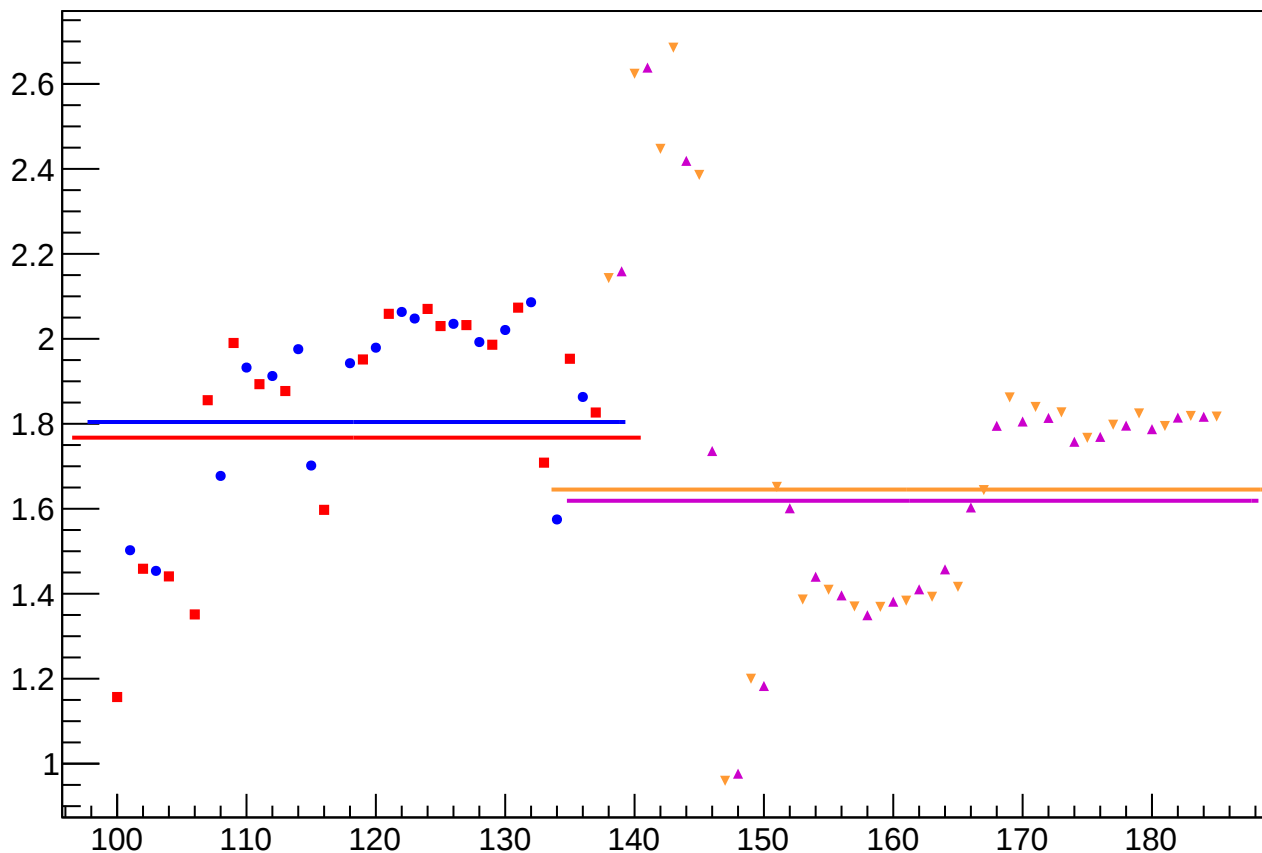
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 74317.5/35

In: 0.086 $\pm$ 0.000 χ^2 /NDF:281979.6/39

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:350323.8/43

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 632923.5/83

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2/NDF : 1156038618.5/16

Left Out: 1.645 $\pm$ 0.000 χ^2/NDF : 26226307538.2/24

Right Out: 1.767 $\pm$ 0.000 χ^2/NDF : 1715728859.6/18

Left In: 1.619 $\pm$ 0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633 $\pm$ 0.000 χ^2/NDF : 46914122090.1/47

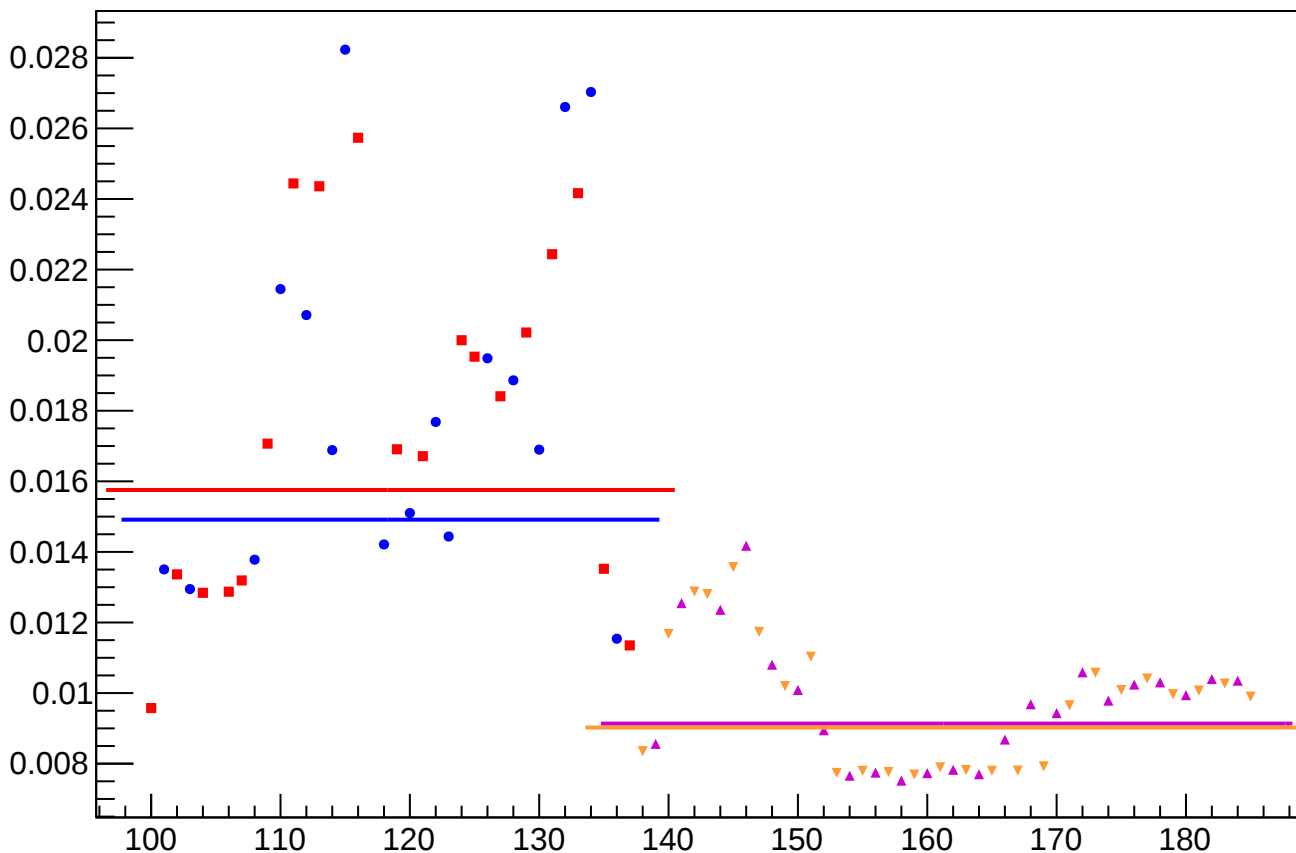
Right: 1.786 $\pm$ 0.000 χ^2/NDF : 2888725719.4/35

In: 1.641 $\pm$ 0.000 χ^2/NDF : 22555231746.9/39

Out: 1.658 $\pm$ 0.000 χ^2/NDF : 28266086538.6/43

All: 1.650 $\pm$ 0.000 χ^2/NDF : 50854512784.3/86

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 :1015418.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 770357.5/18

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1896223.5/47

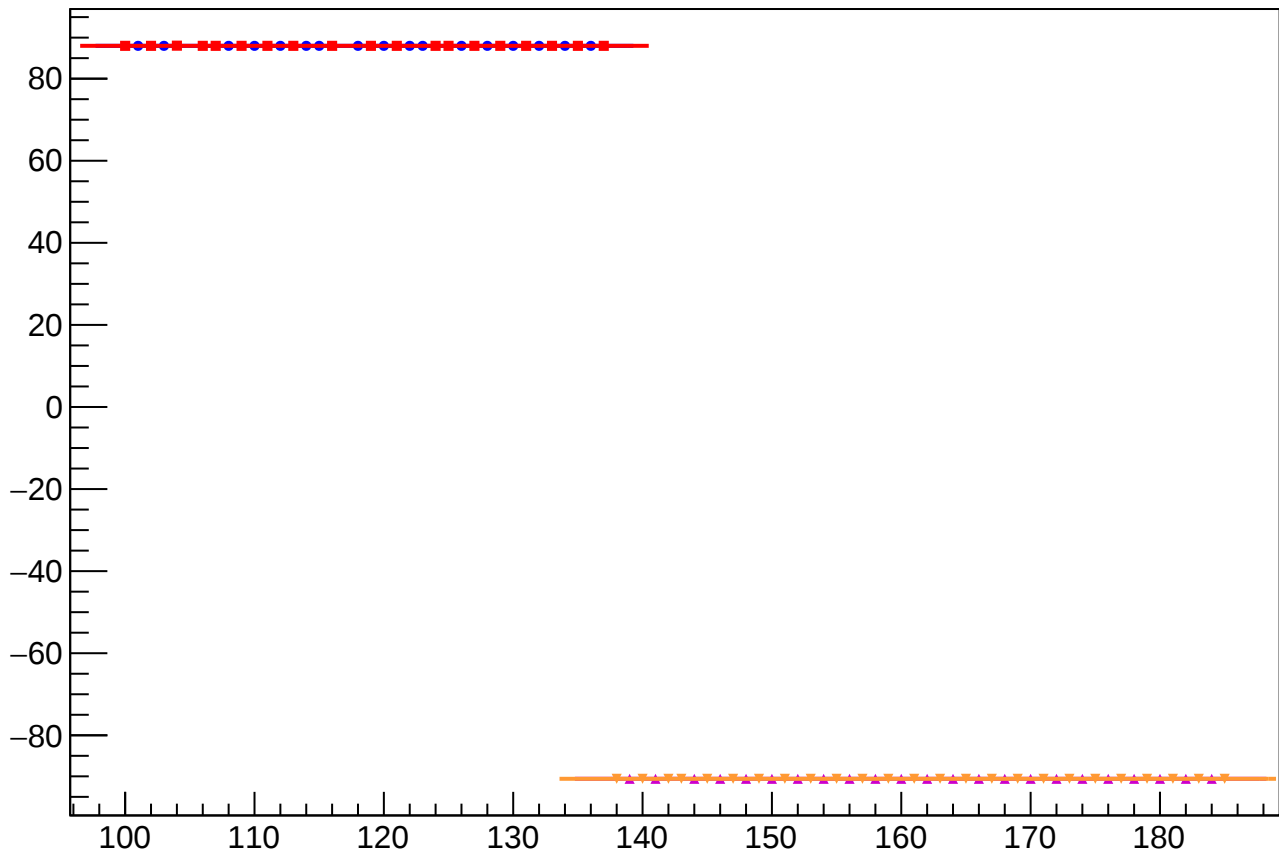
Right: 0.015+/-0.000 χ^2/NDF : 1426092.9/35

In: 0.010+/-0.000 χ^2/NDF :3033983.4/39

Out: 0.010+/-0.000 χ^2/NDF :3754359.8/43

All: 0.010+/-0.000 χ^2/NDF : 6790278.4/83

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 : 8985087.8/24

Right Out: 88.004+/-0.000 χ^2/NDF : 77529520773816998986447323136.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 13777929.0/47

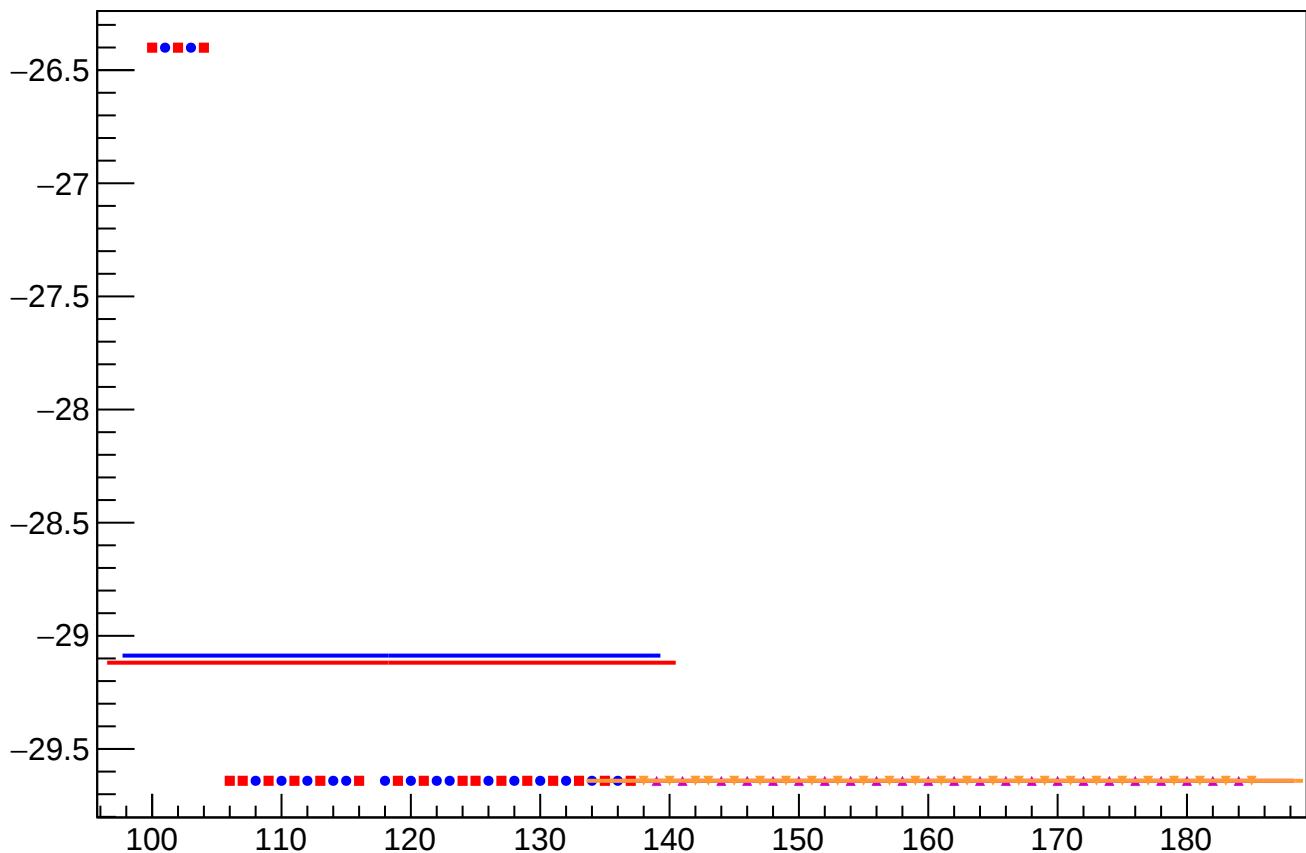
Right: 88.002+/-0.000 χ^2/NDF : 8042394504606349

In: -40.976+/-0.000 χ^2/NDF : 15917377035207056

Out: -41.386+/-0.000 χ^2/NDF : 1663874421962442

All: -41.186+/-0.000 χ^2/NDF : 325563353376

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 : 429708.3/24

Right Out: -29.119+/-0.000

χ^2/NDF : 1021533120000008474668992382894080.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 763794.1/47

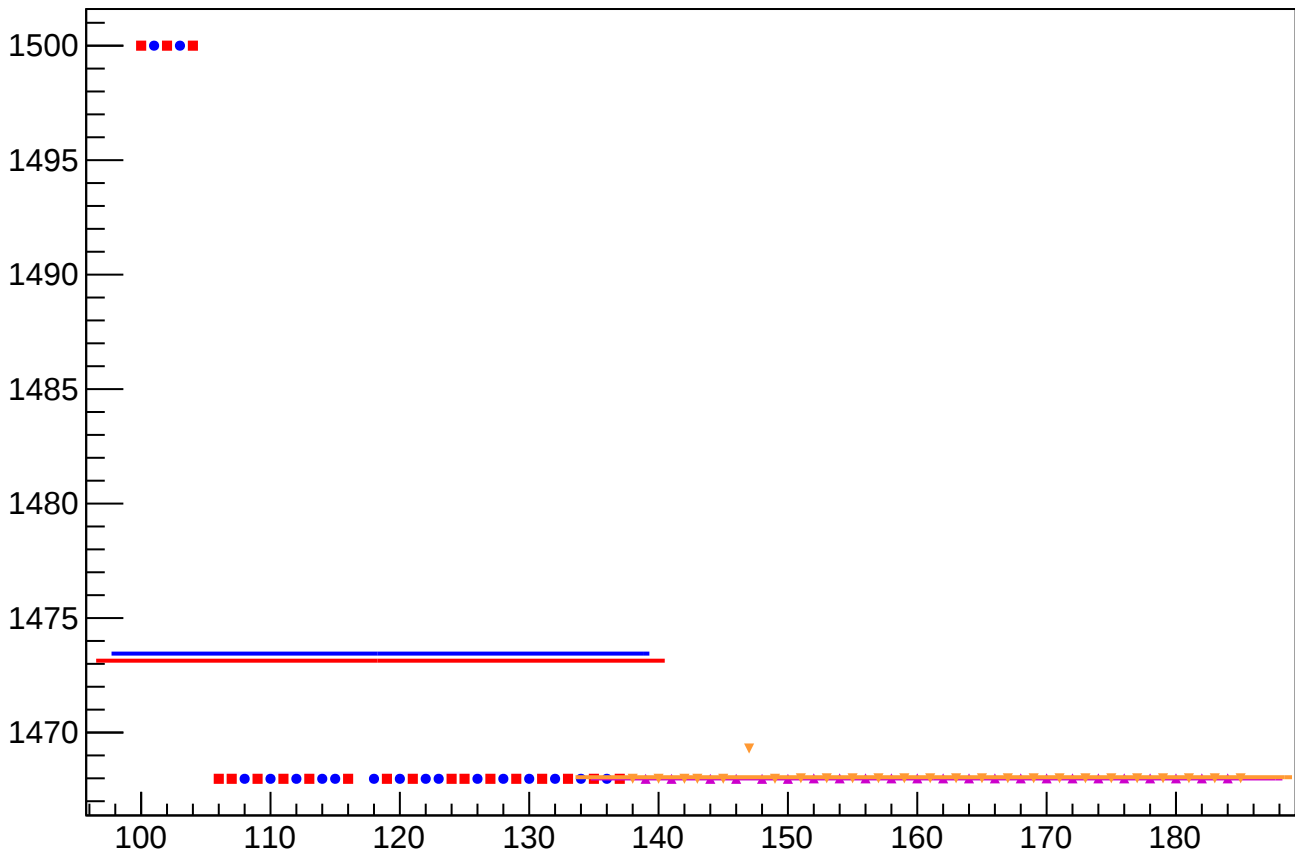
Right: -29.103+/-0.000 χ^2/NDF : 204906307356486

In: -29.487+/-0.000 χ^2/NDF : 11799437471652456

Out: -29.497+/-0.000 χ^2/NDF : 1163662776578620

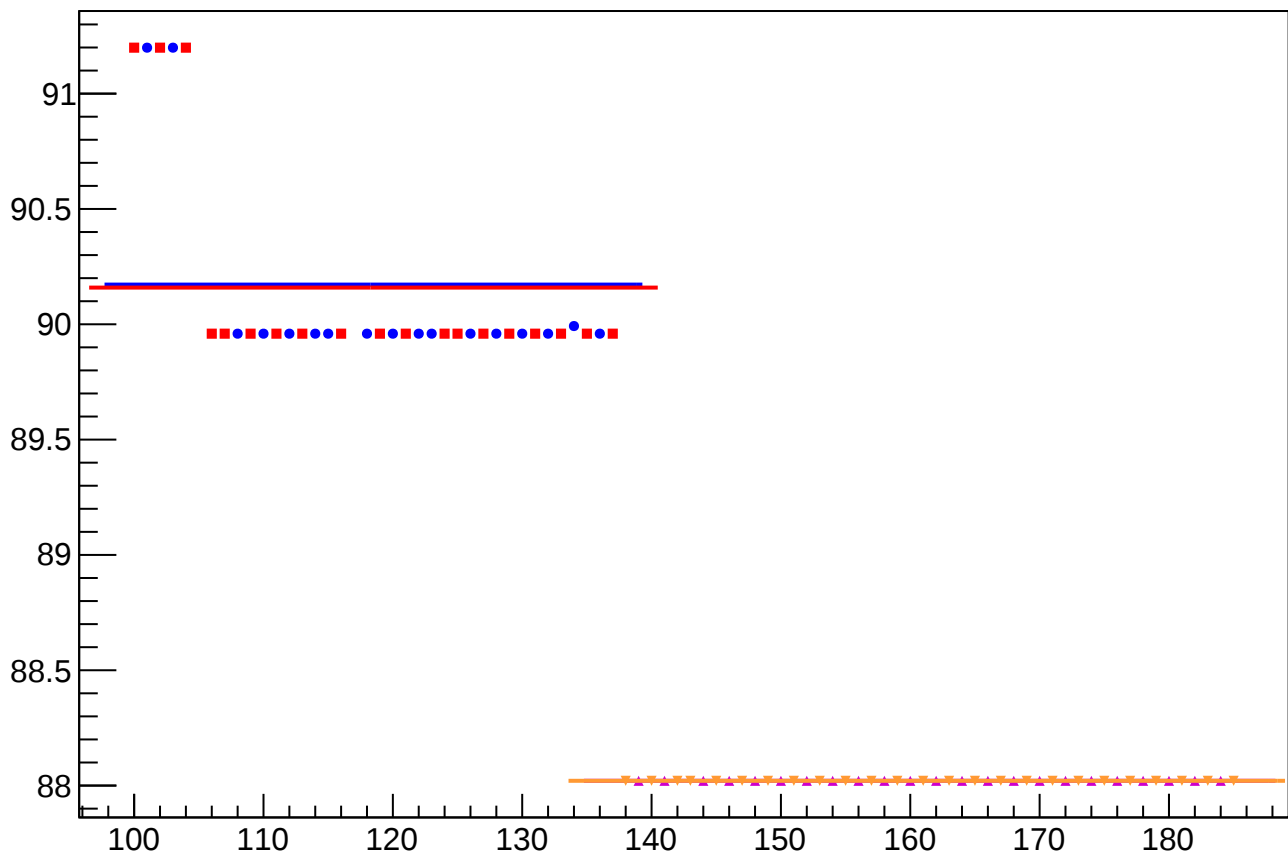
All: -29.492+/-0.000 χ^2/NDF : 234373122635

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.447+/-0.000 χ^2/NDF : 100331979974804513534478923851628544.0/16
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127894722724357099626499267362816.0/24
 Right Out: 1473.138+/-0.000 χ^2/NDF : 99779938590622337721401930749575168.0/18
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1469.479+/-0.000 χ^2/NDF : 22860037411

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.172+/-0.000

χ^2/NDF : 150181697791974119042789817712640.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 6169725.3/24

Right Out: 90.159+/-0.000

χ^2/NDF : 149625564444474590335066871693312.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

Left: 88.021+/-0.000 χ^2/NDF : 12583606.2/47

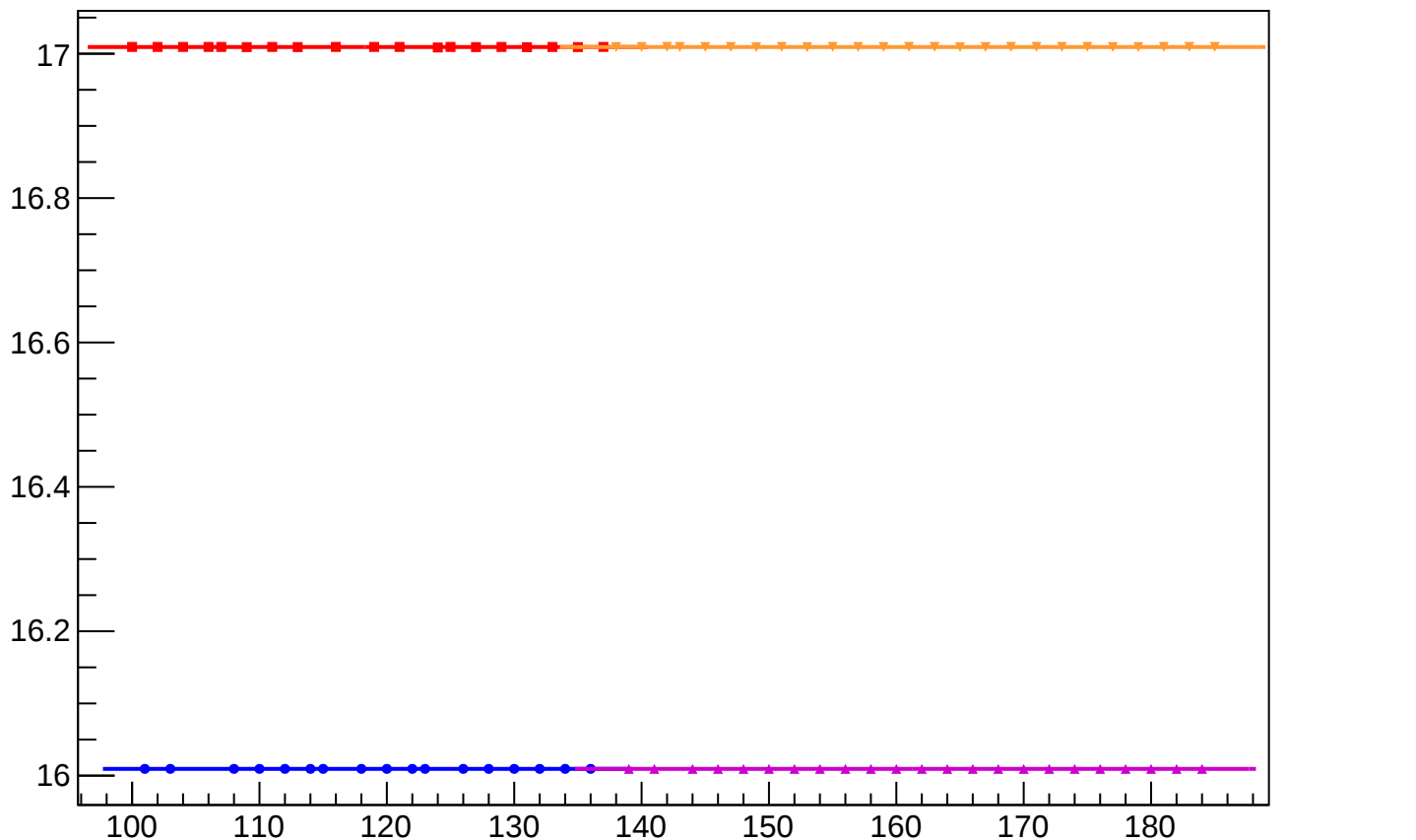
Right: 90.165+/-0.000 χ^2/NDF : 2998666474784590

In: 88.618+/-0.000 χ^2/NDF : 245974793241878032

Out: 88.610+/-0.000 χ^2/NDF : 25347444272702692

All: 88.614+/-0.000 χ^2/NDF : 4994584917791

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: 26100515098524513709588480.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12507759350541157226512384.0/18

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

Left: 16.522 $\pm$ 0.000 χ^2 /NDF: 85572351482052028

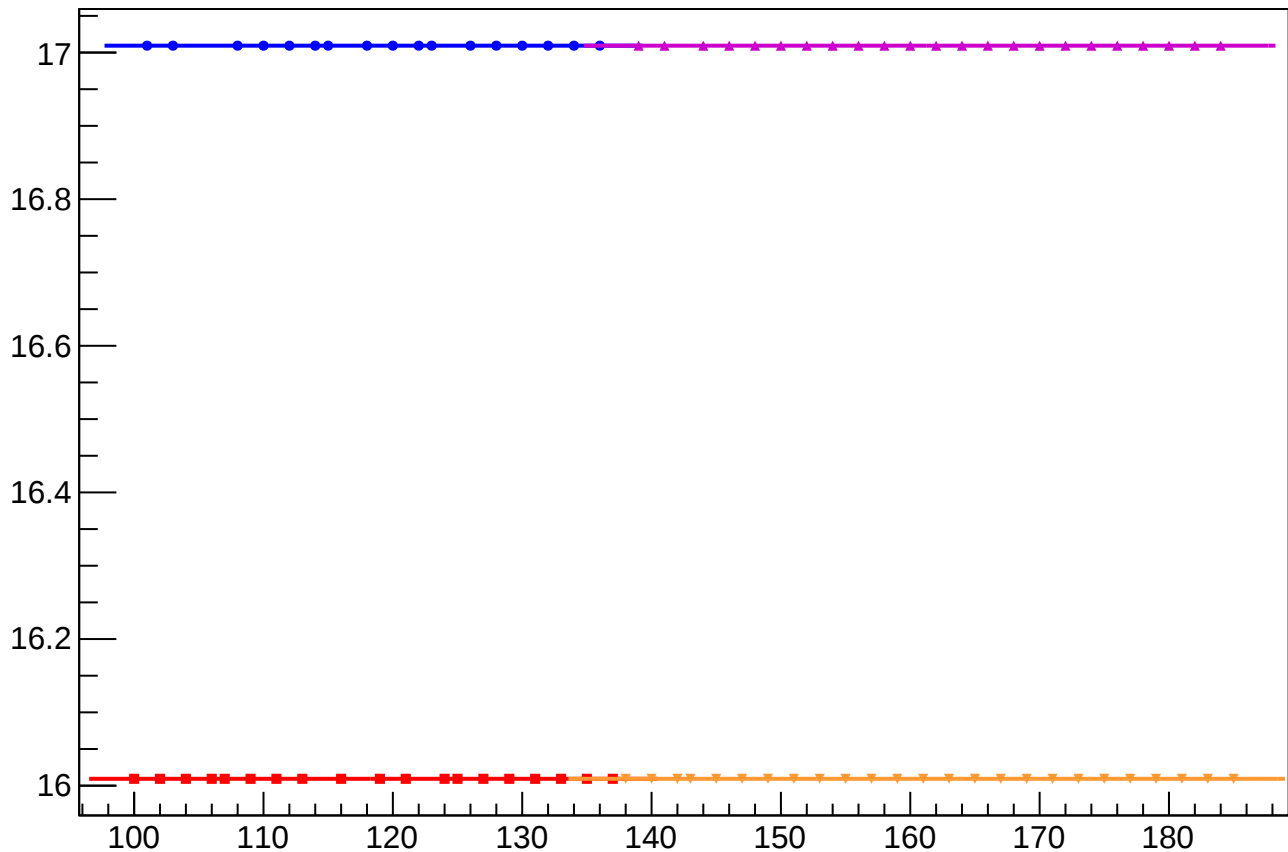
Right: 16.507 $\pm$ 0.000 χ^2 /NDF: 3279335089313653

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129579026151352316

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 38785337477145144

All: 16.518 $\pm$ 0.000 χ^2 /NDF: 1183882285700

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 : 67160.5/24

Right Out: 16.009+/-0.000 χ^2/NDF : 39077.0/18

Left In: 17.009+/-0.000 χ^2/NDF : 114986101427233622065152.0/22

Left: 16.493+/-0.000 χ^2/NDF : 90403517104323314

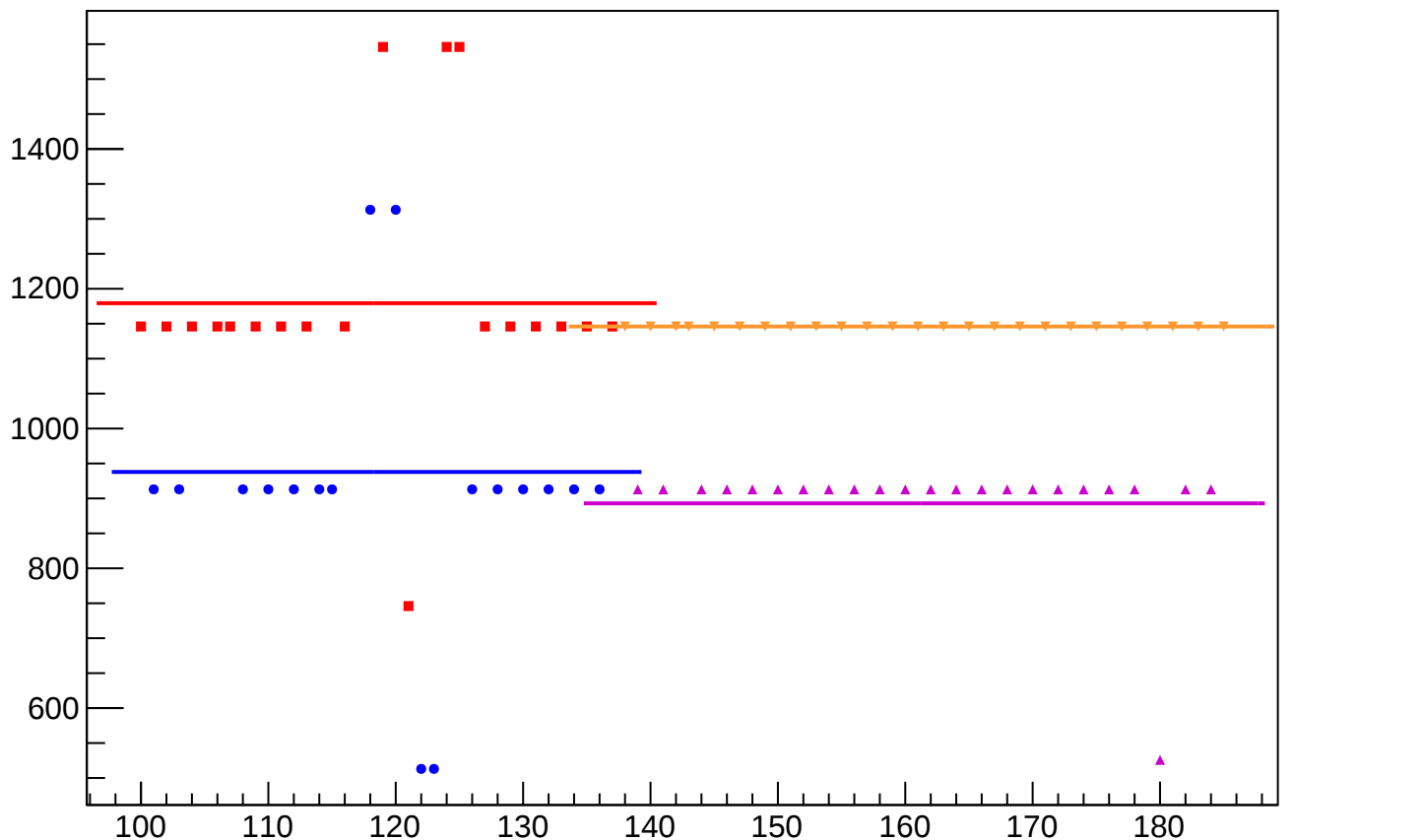
Right: 16.490+/-0.000 χ^2/NDF : 3424686588921133

In: 17.009+/-0.000 χ^2/NDF : 116511145094202532

Out: 16.009+/-0.000 χ^2/NDF : 293898.0/43

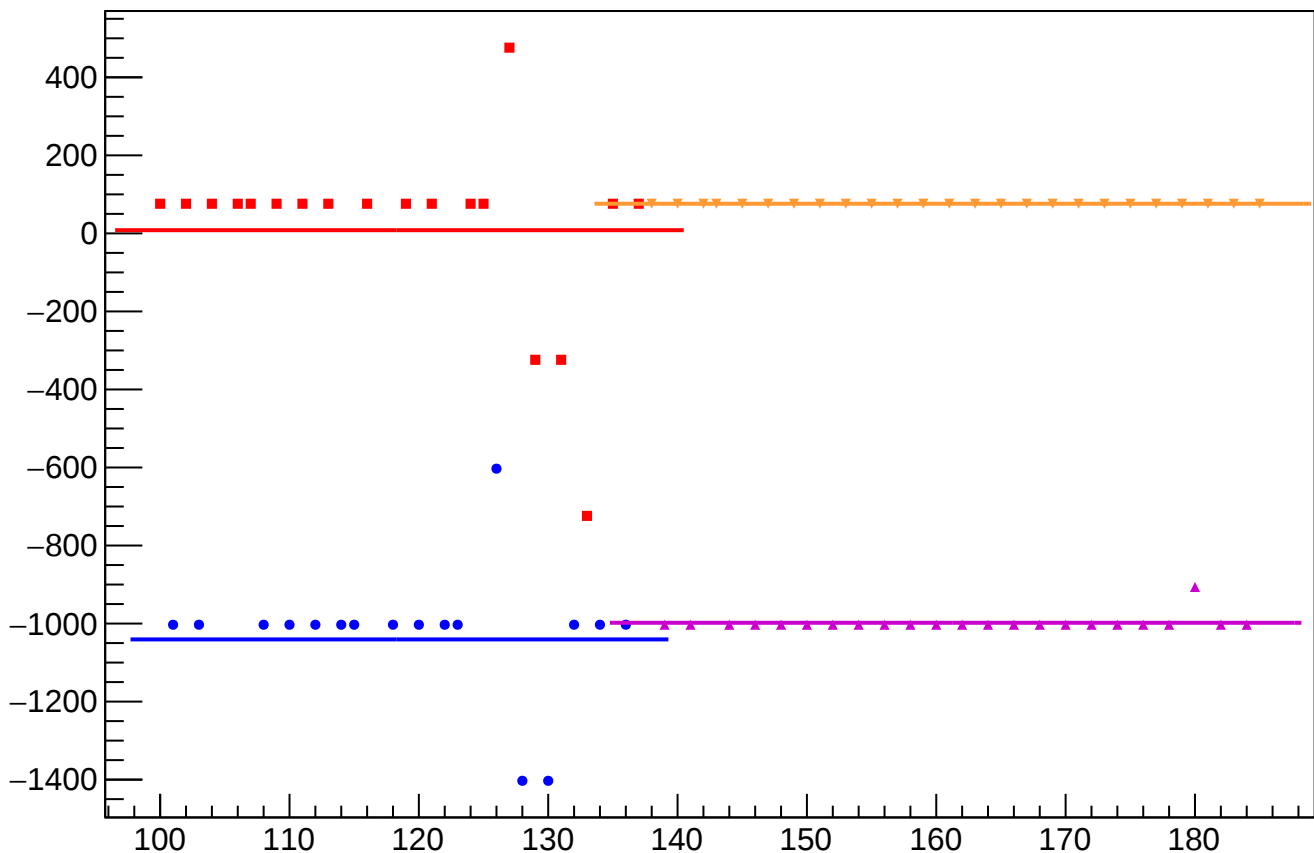
All: 16.492+/-0.000 χ^2/NDF : 1246515196933

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1022.808+/-0.000 χ^2/NDF : 72233658387358
 Right In: 937.887+/-0.000 χ^2/NDF : 20853195799113284359206128263972782080.0/16
 Right: 1061.096+/-0.000 χ^2/NDF : 62690984501737
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8023747406982435024924573696.0/24
 In: 905.436+/-0.000 χ^2/NDF : 35074690604838579
 Right Out: 1179.343+/-0.000 χ^2/NDF : 21280712999839458982137051519993774080.0/18
 Out: 1155.196+/-0.000 χ^2/NDF : 218602388304453
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1033.401+/-0.000 χ^2/NDF : 13642089542

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Left: -446.864+/-0.000 χ^2/NDF : 106386315776312
 Right In: -1040.616+/-0.000 χ^2/NDF : 22221373085920074948025403120531013632.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 11899701523180197912965545984.0/24
 Right Out: 8.231+/-0.000 χ^2/NDF : 43732051061335101274341918679788158976.0/18
 In: -1009.825+/-0.000 χ^2/NDF : 239543915815014
 Out: 57.335+/-0.000 χ^2/NDF : 46128359986903610
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -463.063+/-0.000 χ^2/NDF : 15212047629