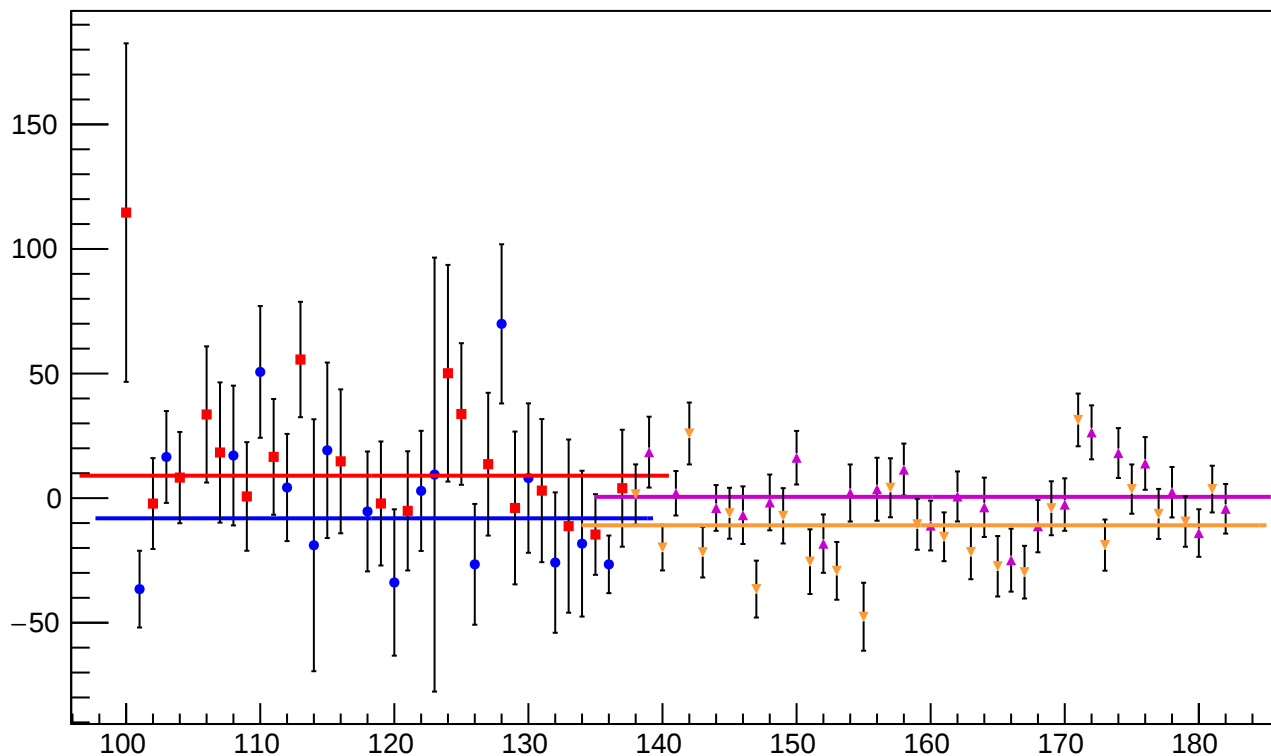


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.097 $\pm$ 5.619

χ^2/NDF : 22.9/16

Left Out: -10.892 $\pm$ 2.243

χ^2/NDF : 57.9/22

Right Out: 9.015 $\pm$ 5.687

χ^2/NDF : 13.0/18

Left In: 0.519 $\pm$ 2.273

χ^2/NDF : 28.0/21

Left: -5.263 $\pm$ 1.597

χ^2/NDF : 98.7/44

Right: 0.356 $\pm$ 3.997

χ^2/NDF : 40.5/35

In: -0.693 $\pm$ 2.107

χ^2/NDF : 52.9/38

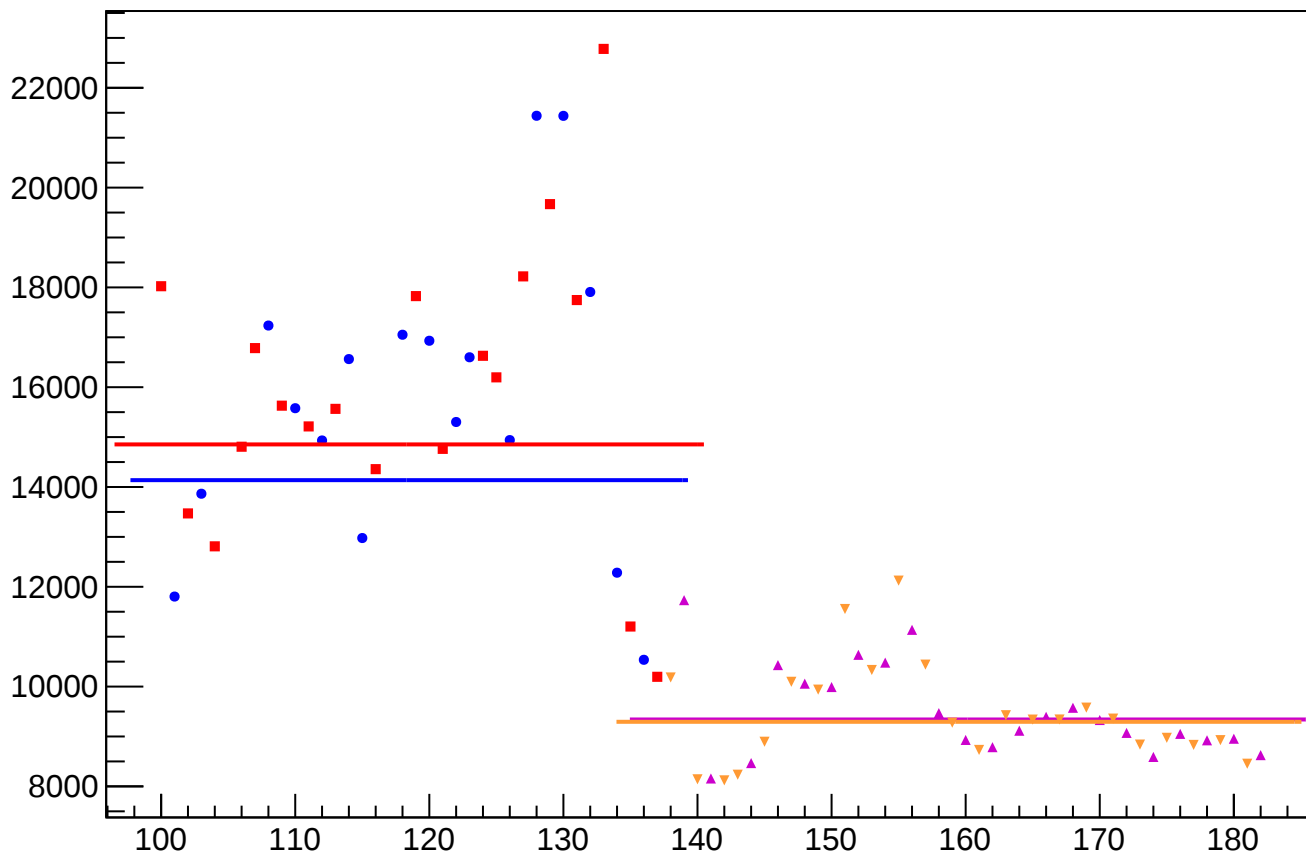
Out: -8.212 $\pm$ 2.087

χ^2/NDF : 81.5/41

All: -4.490 $\pm$ 1.483

χ^2/NDF : 140.8/80

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9294.282 $\pm$ 1.586 χ^2 /NDF:320941.7/22

Right Out: 14853.365 $\pm$ 4.022 χ^2 /NDF: 473842.5/18

Left In: 9340.615 $\pm$ 1.608 χ^2 /NDF:270355.9/21

Left: 9317.137 $\pm$ 1.129 χ^2 /NDF: 591718.6/44

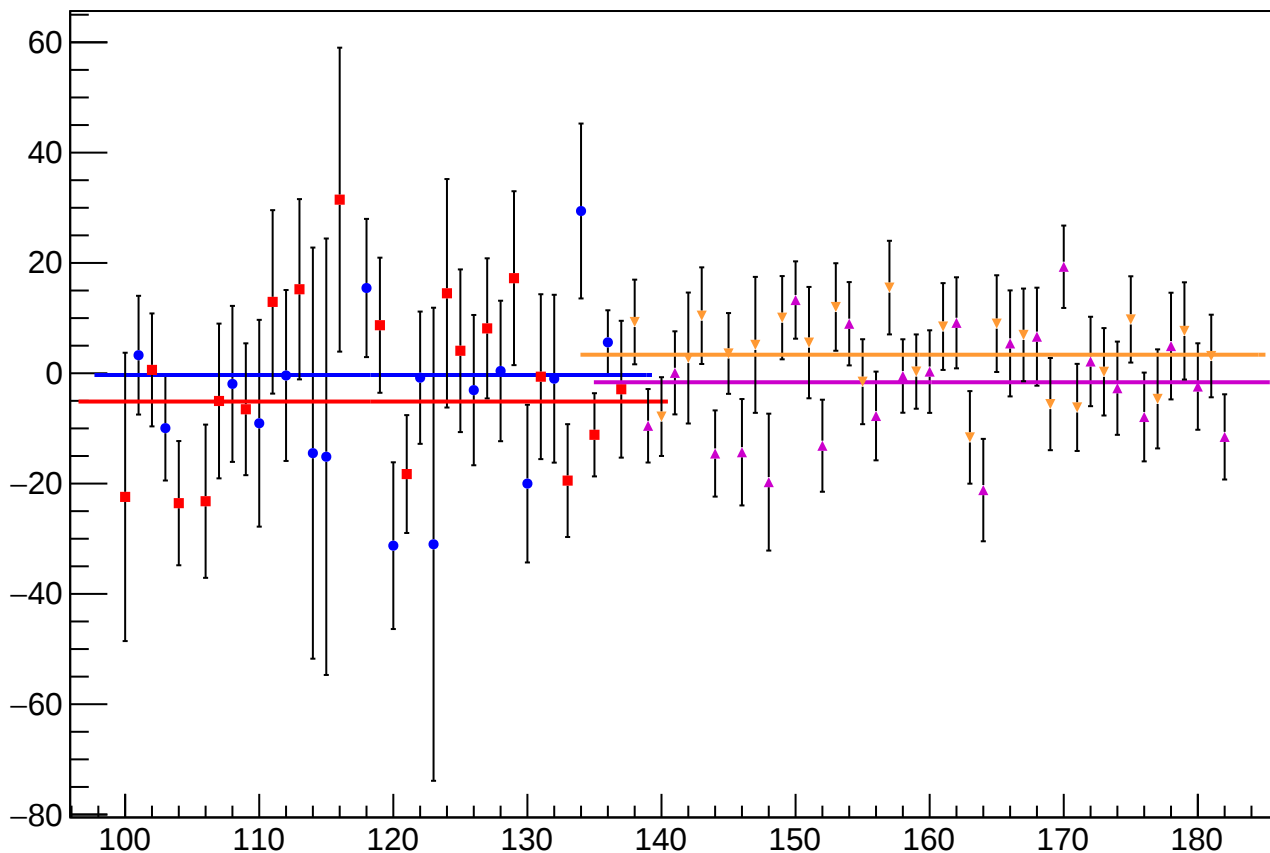
Right: 14490.905 $\pm$ 2.827 χ^2 /NDF: 1092938.6/35

In: 10015.192 $\pm$ 1.490 χ^2 /NDF:2125518.8/38

Out: 10042.573 $\pm$ 1.475 χ^2 /NDF:2448410.2/41

All: 10029.018 $\pm$ 1.048 χ^2 /NDF: 4574099.5/80

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 3.363 ± 1.712 χ^2/NDF : 17.1/22

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

Left In: -1.629 ± 1.720 χ^2/NDF : 35.5/21

Left: 0.879 ± 1.213 χ^2/NDF : 56.8/44

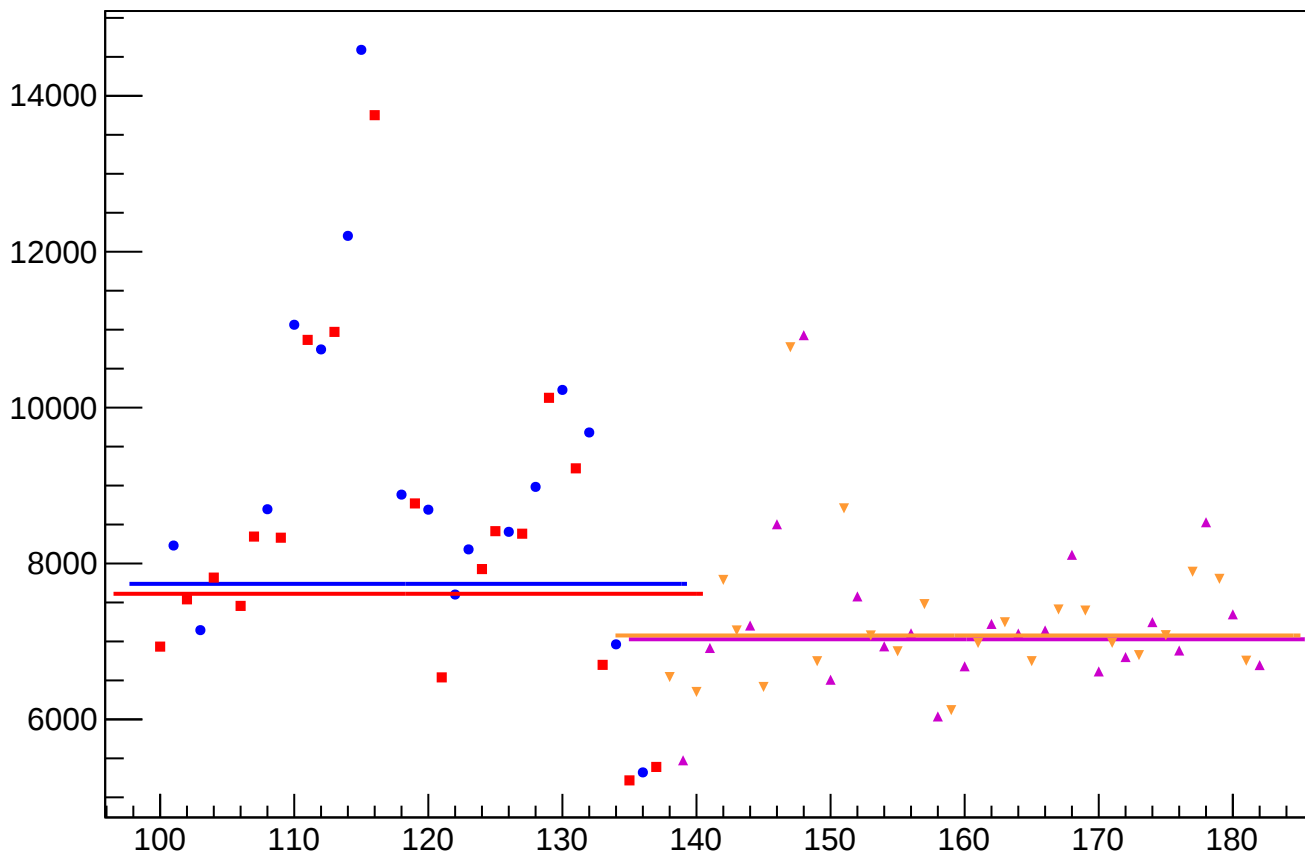
Right: -2.829 ± 2.126 χ^2/NDF : 35.3/35

In: -1.316 ± 1.501 χ^2/NDF : 50.0/38

Out: 1.216 ± 1.480 χ^2/NDF : 42.9/41

All: -0.032 ± 1.054 χ^2/NDF : 94.4/80

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7076.653+/-1.210 χ^2/NDF : 382538.9/22

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

Left In: 7027.846+/-1.216 χ^2/NDF : 519460.8/21

Left: 7052.369+/-0.858 χ^2/NDF : 902808.7/44

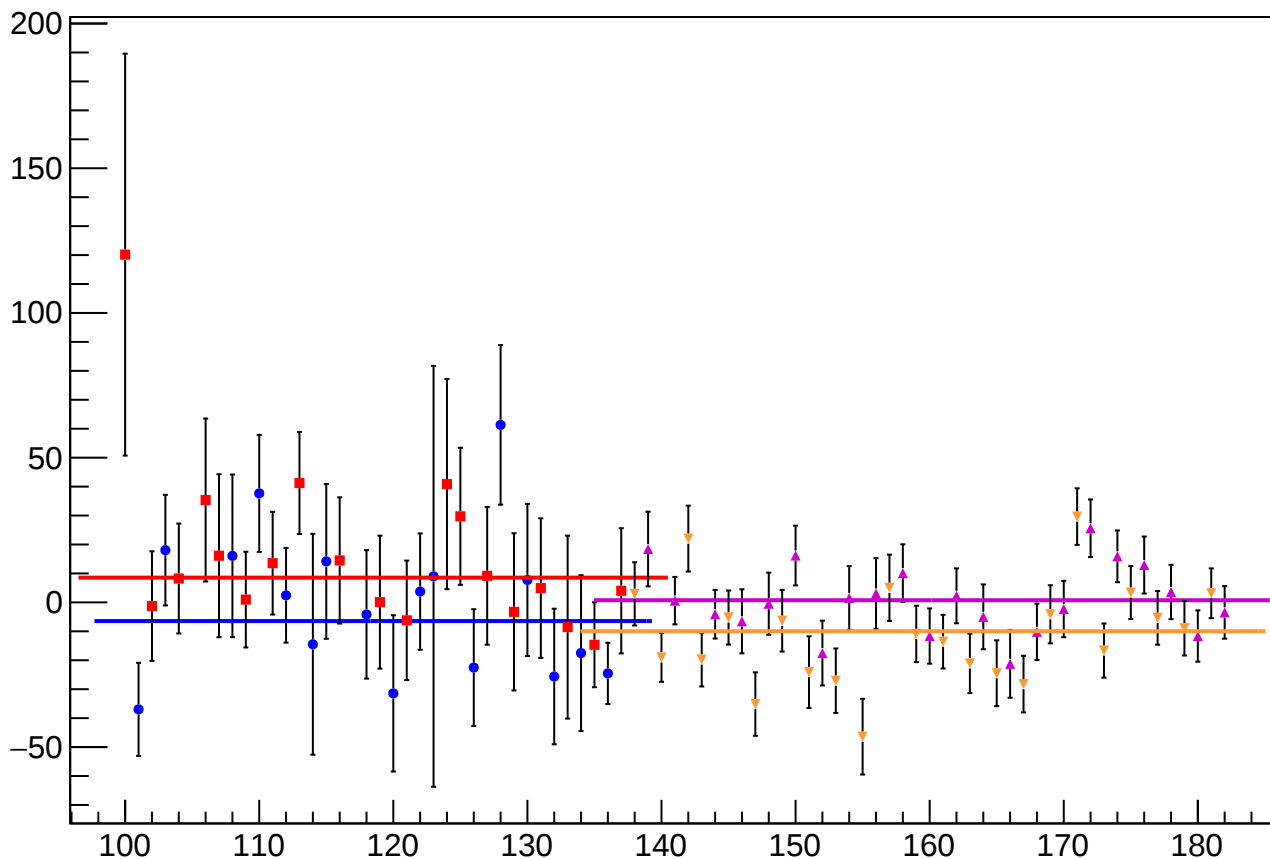
Right: 7672.308+/-1.504 χ^2/NDF : 1426027.8/35

In: 7197.179+/-1.062 χ^2/NDF : 1341816.2/38

Out: 7211.896+/-1.046 χ^2/NDF : 1115162.2/41

All: 7204.645+/-0.745 χ^2/NDF : 2457075.8/80

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -9.971 ± 2.093 $\chi^2/\text{NDF}: 58.7/22$

Right Out: 8.548 ± 5.009 $\chi^2/\text{NDF}: 12.9/18$

Left In: 0.746 ± 2.123 $\chi^2/\text{NDF}: 28.2/21$

Left: -4.690 ± 1.490 $\chi^2/\text{NDF}: 99.9/44$

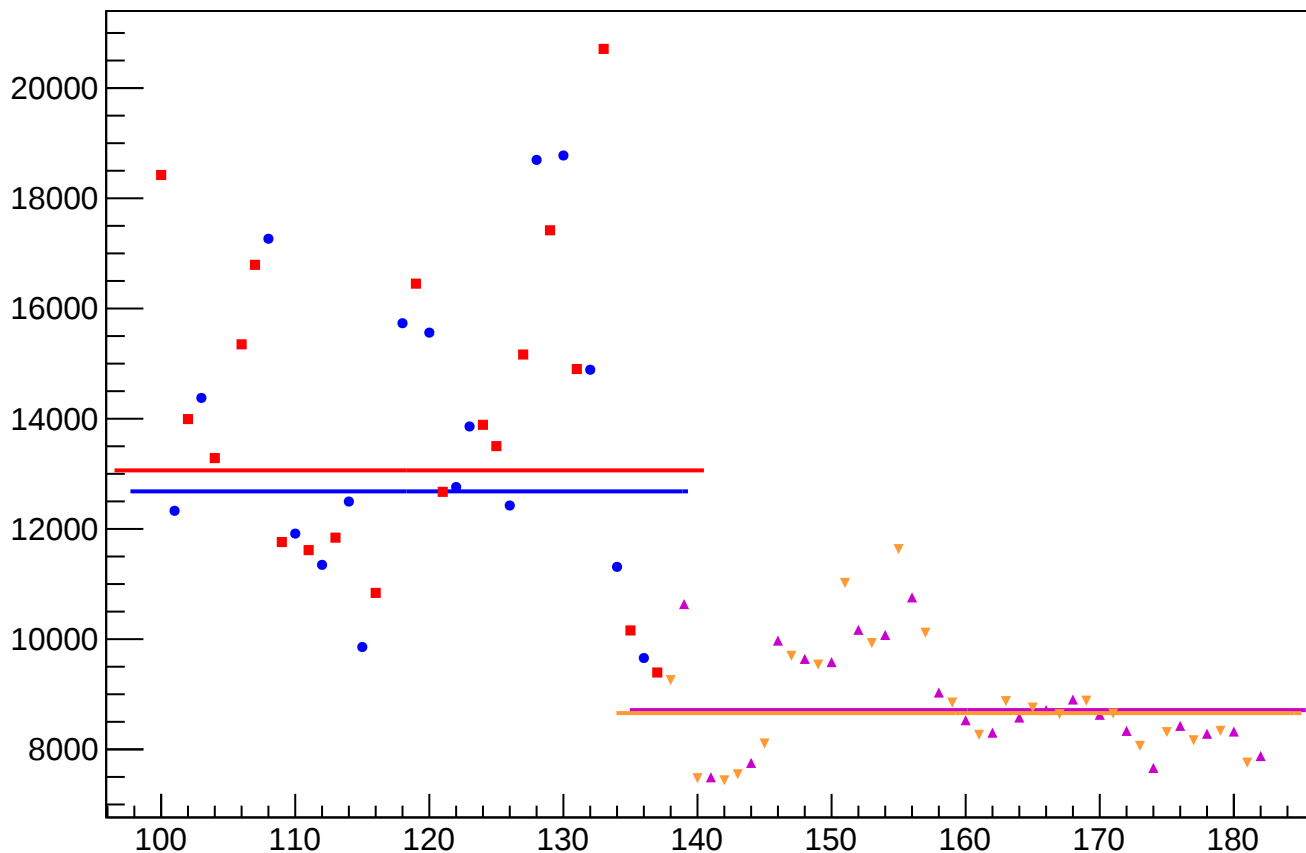
Right: 1.072 ± 3.549 $\chi^2/\text{NDF}: 40.9/35$

In: -0.344 ± 1.956 $\chi^2/\text{NDF}: 53.4/38$

Out: -7.219 ± 1.931 $\chi^2/\text{NDF}: 83.3/41$

All: -3.826 ± 1.374 $\chi^2/\text{NDF}: 143.0/80$

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8658.390 $\pm$ 1.480 χ^2 /NDF: 417254.1/22

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

Left In: 8712.763 $\pm$ 1.501 χ^2 /NDF: 355546.9/21

Left: 8685.183 $\pm$ 1.054 χ^2 /NDF: 773466.4/44

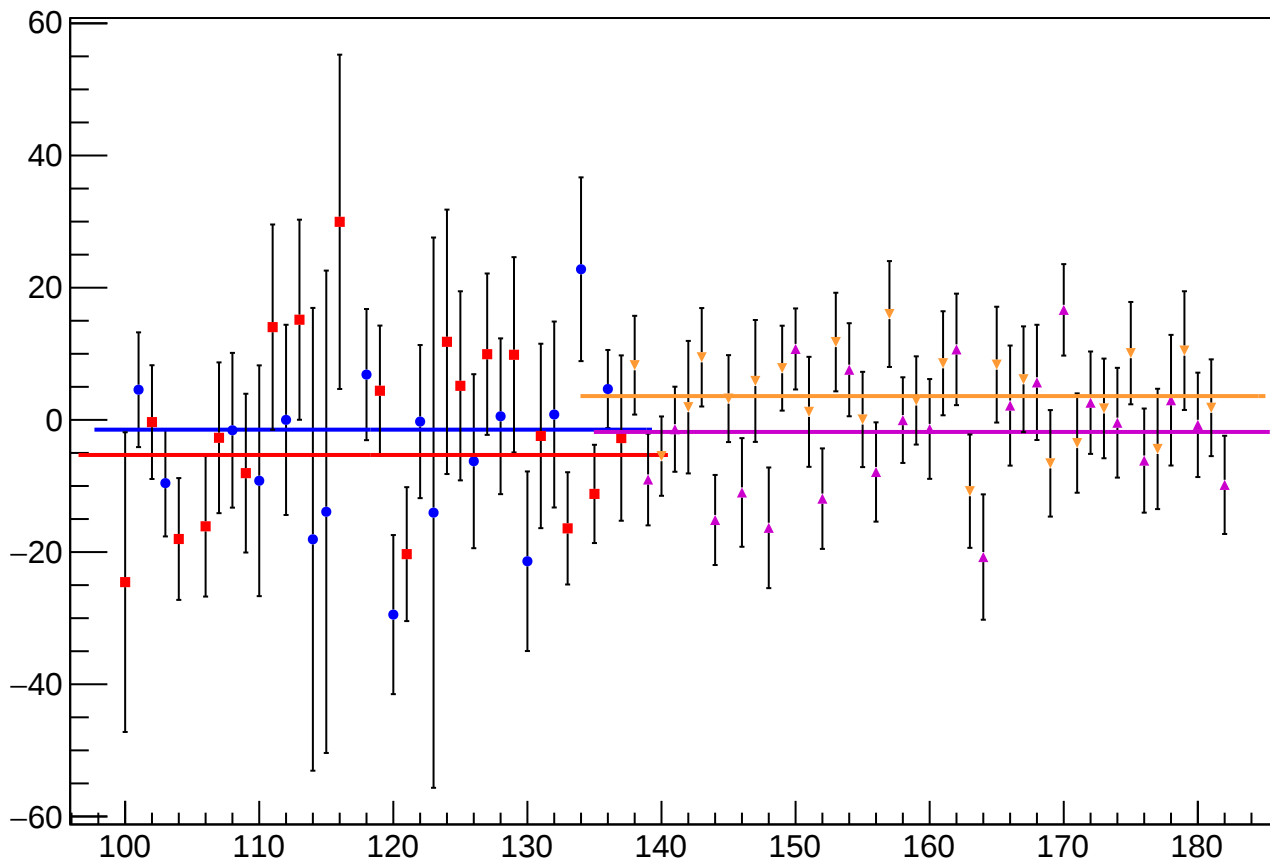
Right: 12873.023 $\pm$ 2.509 χ^2 /NDF: 1063620.9/35

In: 9313.296 $\pm$ 1.383 χ^2 /NDF: 1971710.3/38

Out: 9312.955 $\pm$ 1.365 χ^2 /NDF: 2233064.1/41

All: 9313.123 $\pm$ 0.972 χ^2 /NDF: 4204774.4/80

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.477 ± 2.795 χ^2/NDF : 14.7/16

Left Out: 3.601 ± 1.599 χ^2/NDF : 16.0/22

Right Out: -5.307 ± 2.645 χ^2/NDF : 18.9/18

Left In: -1.824 ± 1.623 χ^2/NDF : 33.4/21

Left: 0.930 ± 1.139 χ^2/NDF : 55.2/44

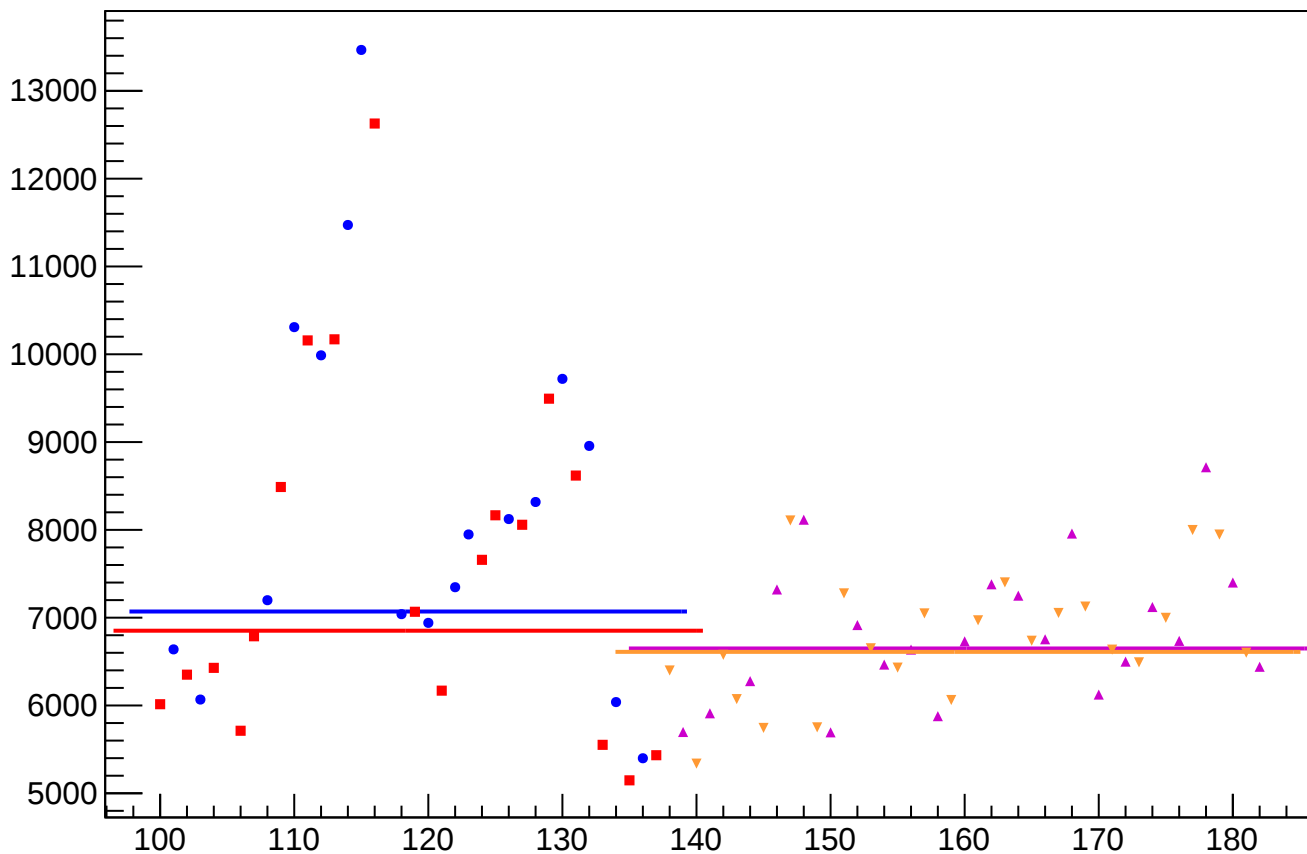
Right: -3.498 ± 1.921 χ^2/NDF : 34.6/35

In: -1.736 ± 1.404 χ^2/NDF : 48.2/38

Out: 1.217 ± 1.368 χ^2/NDF : 43.2/41

All: -0.221 ± 0.980 χ^2/NDF : 93.7/80

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6610.734+/-1.130 χ^2/NDF : 391067.4/22

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

Left In: 6649.196+/-1.148 χ^2/NDF : 410084.8/21

Left: 6629.668+/-0.805 χ^2/NDF : 801722.2/44

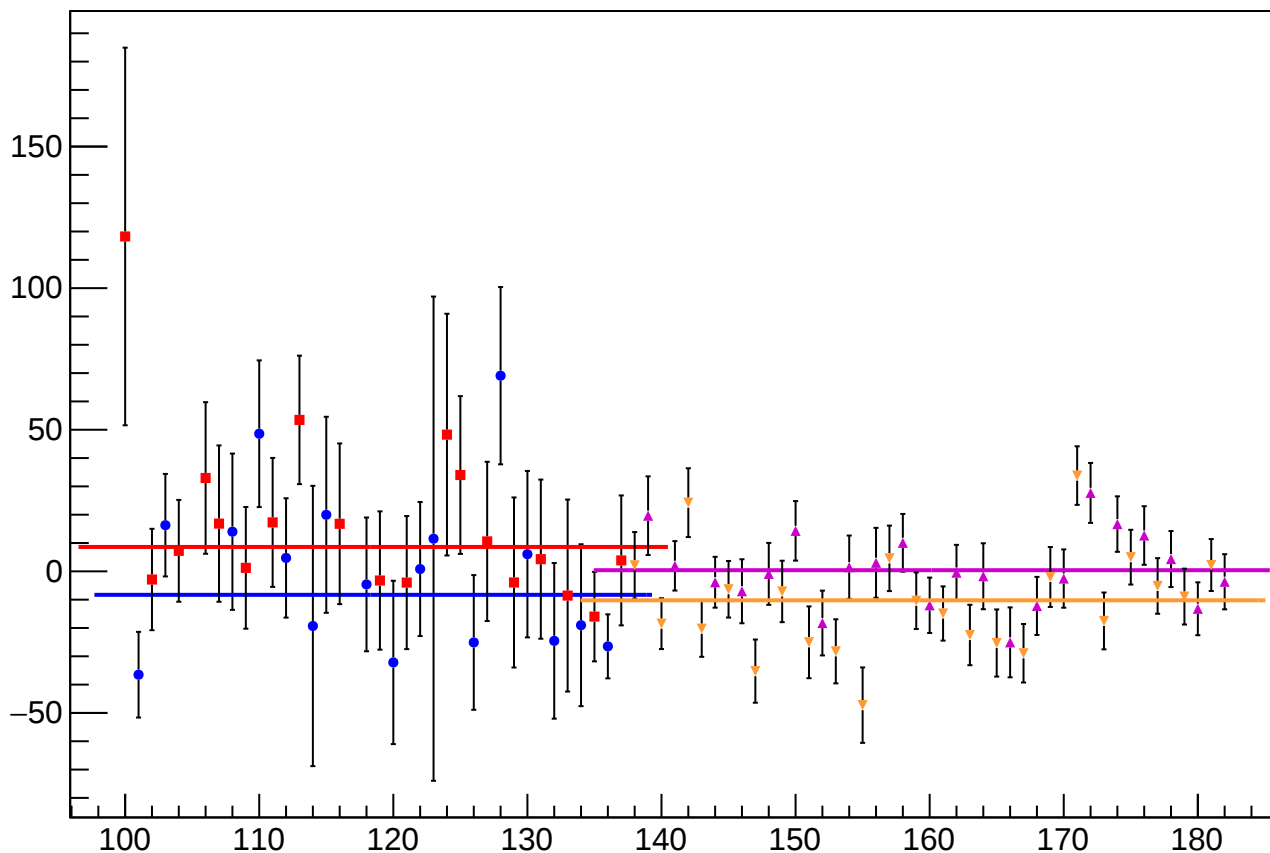
Right: 6954.858+/-1.358 χ^2/NDF : 1295919.6/35

In: 6755.393+/-0.993 χ^2/NDF : 1044892.7/38

Out: 6675.185+/-0.967 χ^2/NDF : 1091803.3/41

All: 6714.253+/-0.693 χ^2/NDF : 2140044.7/80

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.291 $\pm$ 5.508 χ^2/NDF : 22.7/16

Left Out: -10.225 $\pm$ 2.193 χ^2/NDF : 59.9/22

Right Out: 8.615 $\pm$ 5.576 χ^2/NDF : 13.4/18

Left In: 0.401 $\pm$ 2.222 χ^2/NDF : 28.8/21

Left: -4.983 $\pm$ 1.561 χ^2/NDF : 100.2/44

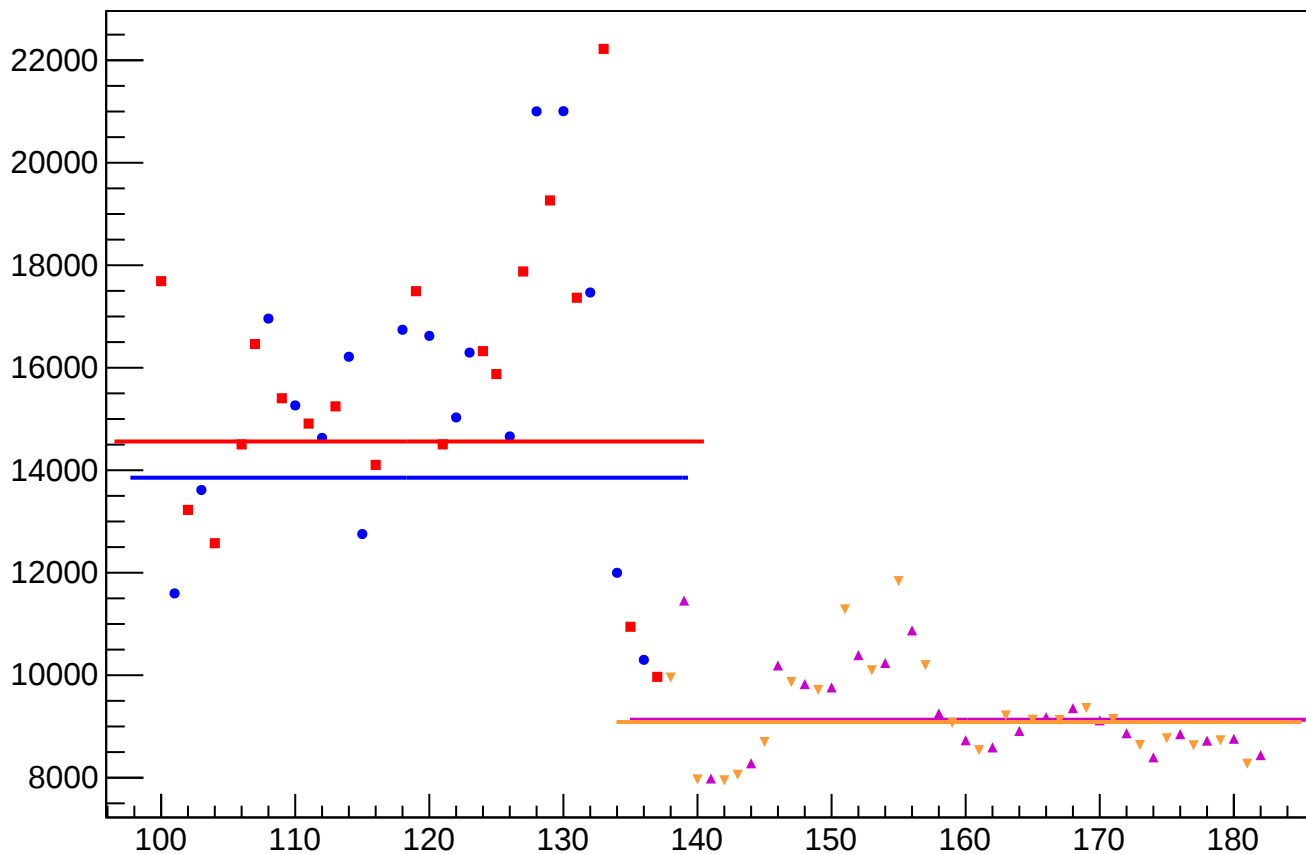
Right: 0.058 $\pm$ 3.918 χ^2/NDF : 40.8/35

In: -0.816 $\pm$ 2.061 χ^2/NDF : 53.6/38

Out: -7.701 $\pm$ 2.041 χ^2/NDF : 83.2/41

All: -4.293 $\pm$ 1.450 χ^2/NDF : 142.5/80

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9086.892 $\pm$ 1.551 χ^2 /NDF:317376.7/22

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

Left In: 9131.928 $\pm$ 1.571 χ^2 /NDF:267199.6/21

Left: 9109.108 $\pm$ 1.104 χ^2 /NDF: 584992.5/44

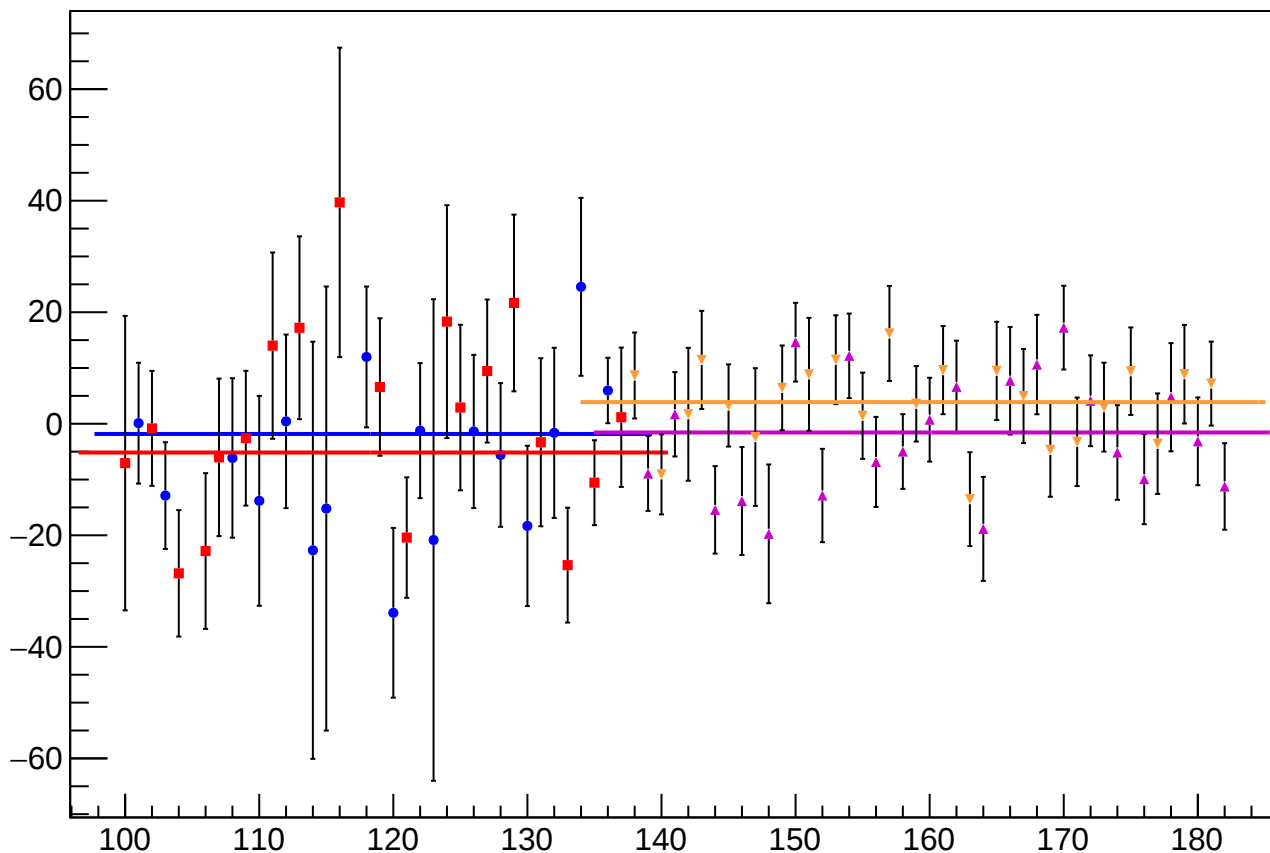
Right: 14203.439 $\pm$ 2.771 χ^2 /NDF: 1098217.6/35

In: 9793.146 $\pm$ 1.457 χ^2 /NDF:2137863.8/38

Out: 9820.133 $\pm$ 1.443 χ^2 /NDF:2462705.7/41

All: 9806.773 $\pm$ 1.025 χ^2 /NDF: 4600742.7/80

diff_bpm4acY_mean vs Slug, Sign Corrected



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

Left Out: 3.882 ± 1.719 χ^2/NDF : 16.9/22

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

Left In: -1.560 ± 1.728 χ^2/NDF : 36.6/21

Left: 1.175 ± 1.219 χ^2/NDF : 58.5/44

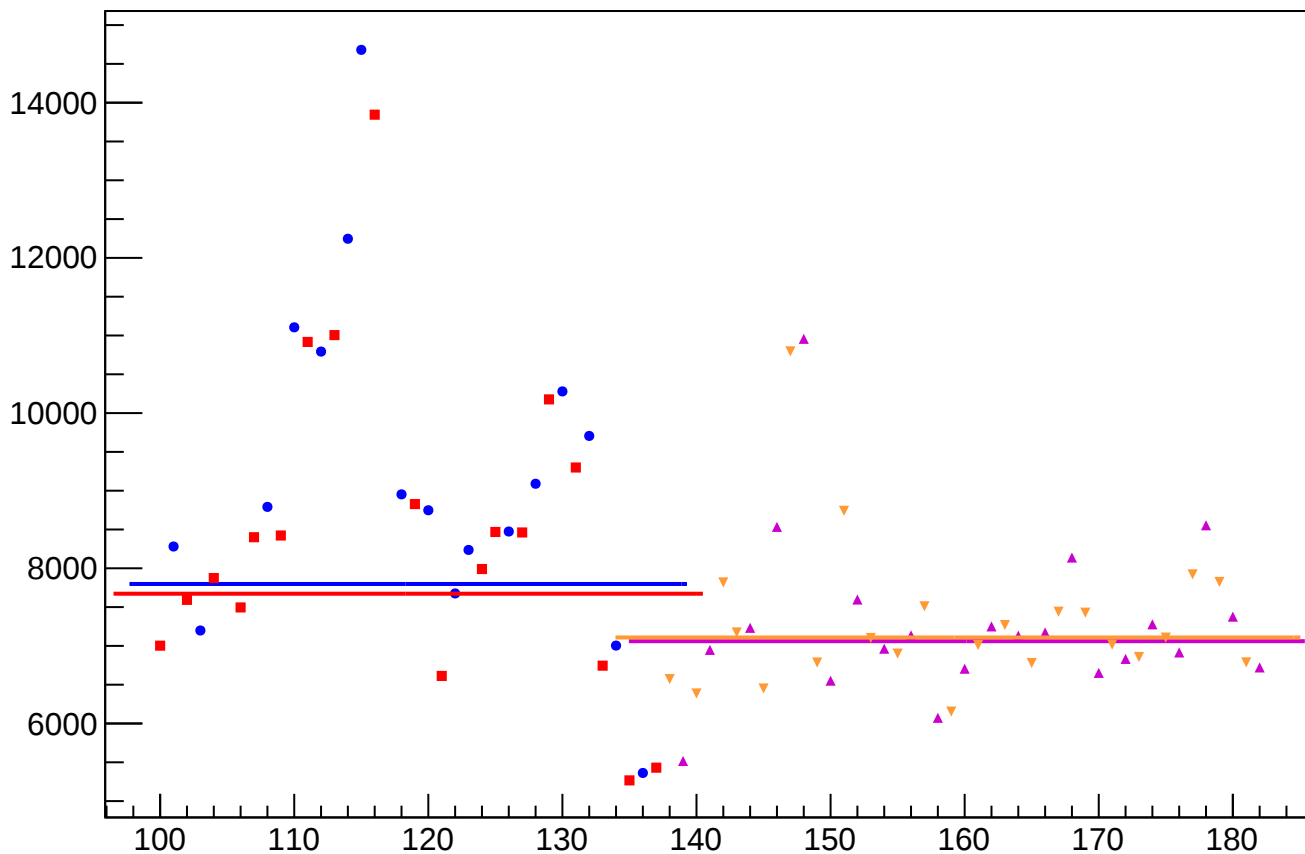
Right: -3.566 ± 2.142 χ^2/NDF : 39.2/35

In: -1.623 ± 1.509 χ^2/NDF : 50.7/38

Out: 1.608 ± 1.487 χ^2/NDF : 48.4/41

All: 0.016 ± 1.059 χ^2/NDF : 101.4/80

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7797.989+/-2.192 χ^2/NDF : 736318.7/16

Left Out: 7108.629+/-1.216 χ^2/NDF : 377731.3/22

Right Out: 7672.429+/-2.096 χ^2/NDF : 676691.4/18

Left In: 7060.623+/-1.222 χ^2/NDF : 511562.3/21

Left: 7084.746+/-0.862 χ^2/NDF : 890069.3/44

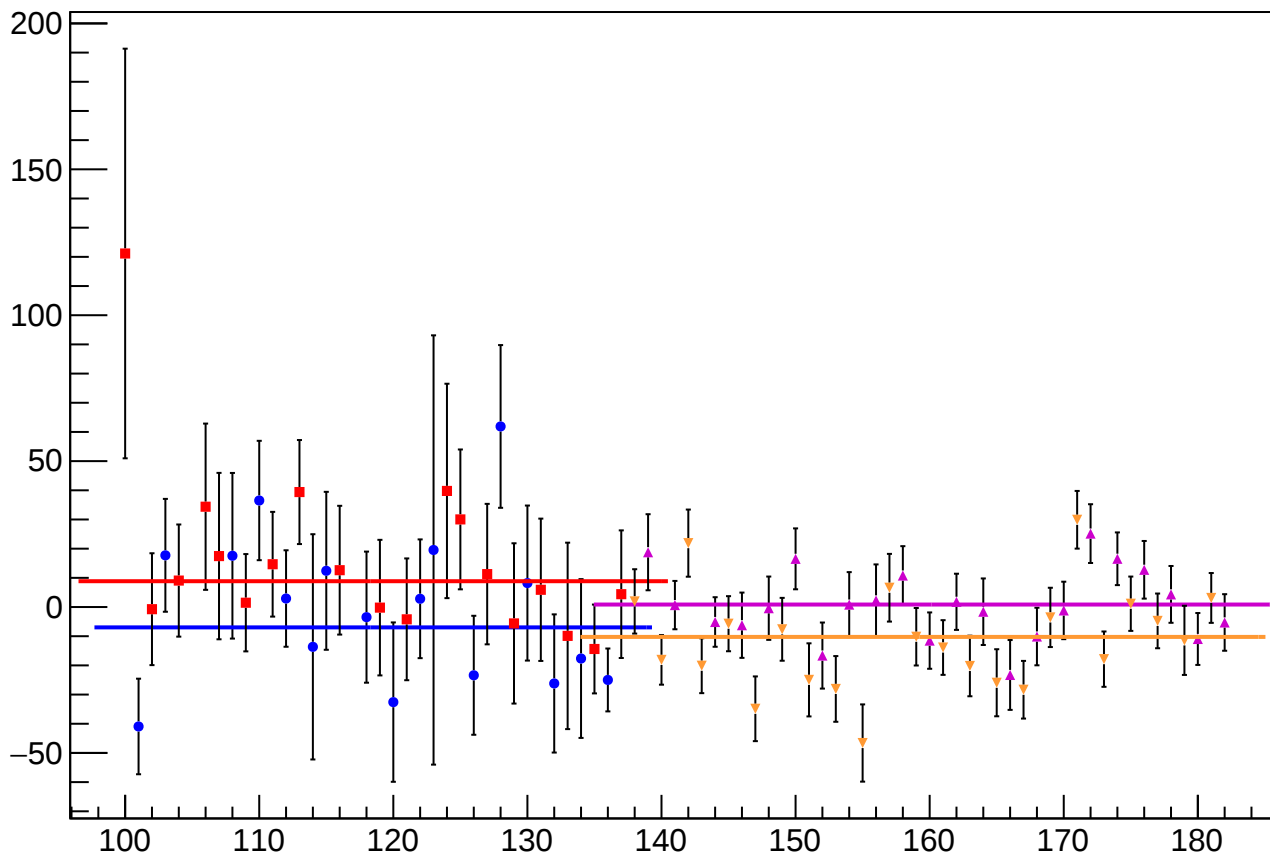
Right: 7732.419+/-1.515 χ^2/NDF : 1414723.9/35

In: 7235.439+/-1.067 χ^2/NDF : 1334230.3/38

Out: 7250.515+/-1.052 χ^2/NDF : 1108547.5/41

All: 7243.087+/-0.749 χ^2/NDF : 2442879.1/80

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

Left Out: -10.239 $\pm$ 2.132 χ^2/NDF : 57.9/22

Right Out: 8.848 $\pm$ 5.080 χ^2/NDF : 12.0/18

Left In: 0.854 $\pm$ 2.155 χ^2/NDF : 28.1/21

Left: -4.752 $\pm$ 1.516 χ^2/NDF : 99.3/44

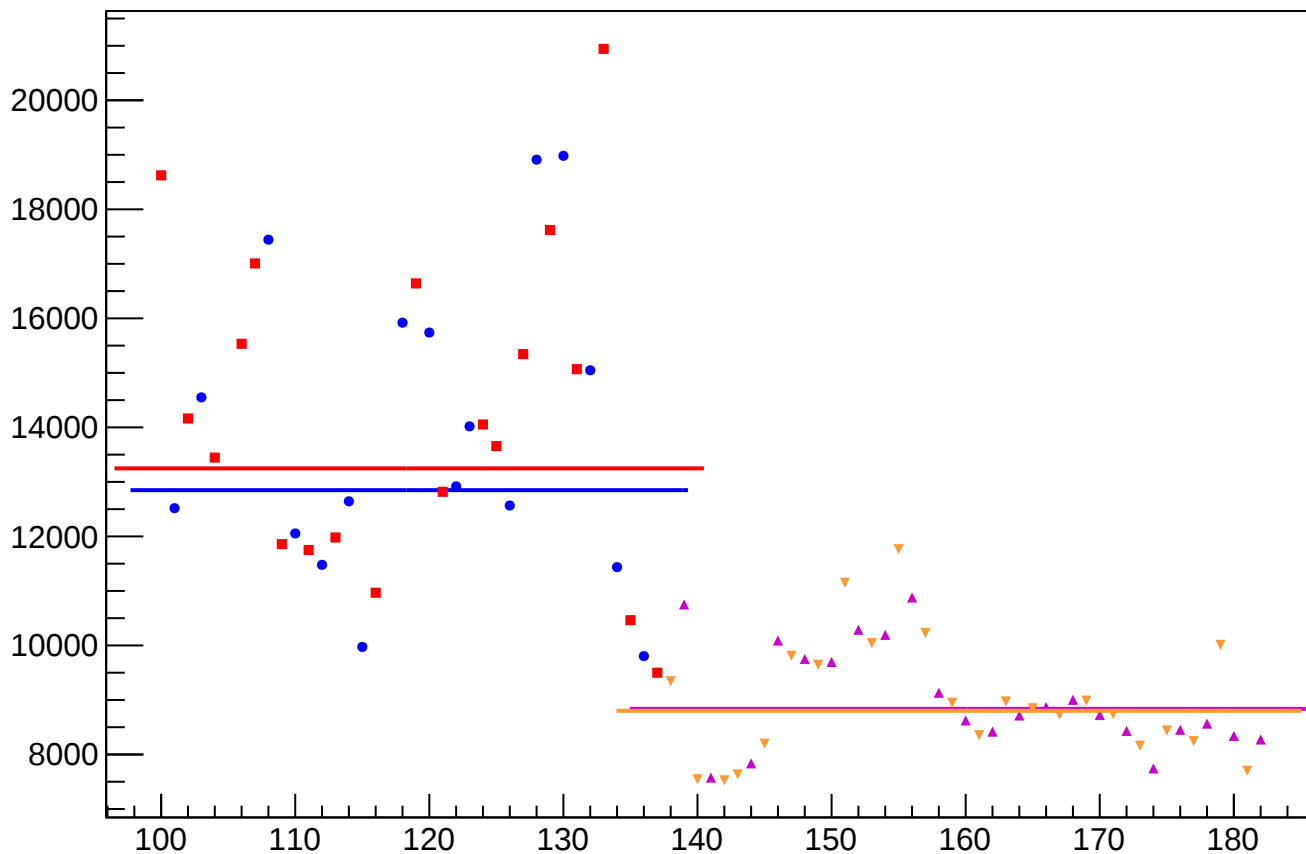
Right: 0.961 $\pm$ 3.598 χ^2/NDF : 40.9/35

In: -0.334 $\pm$ 1.985 χ^2/NDF : 54.1/38

Out: -7.380 $\pm$ 1.966 χ^2/NDF : 81.9/41

All: -3.890 $\pm$ 1.397 χ^2/NDF : 142.4/80

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8801.158 $\pm$ 1.508 χ^2 /NDF: 445912.9/22

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

Left In: 8836.974 $\pm$ 1.524 χ^2 /NDF: 345048.3/21

Left: 8818.876 $\pm$ 1.072 χ^2 /NDF: 791240.3/44

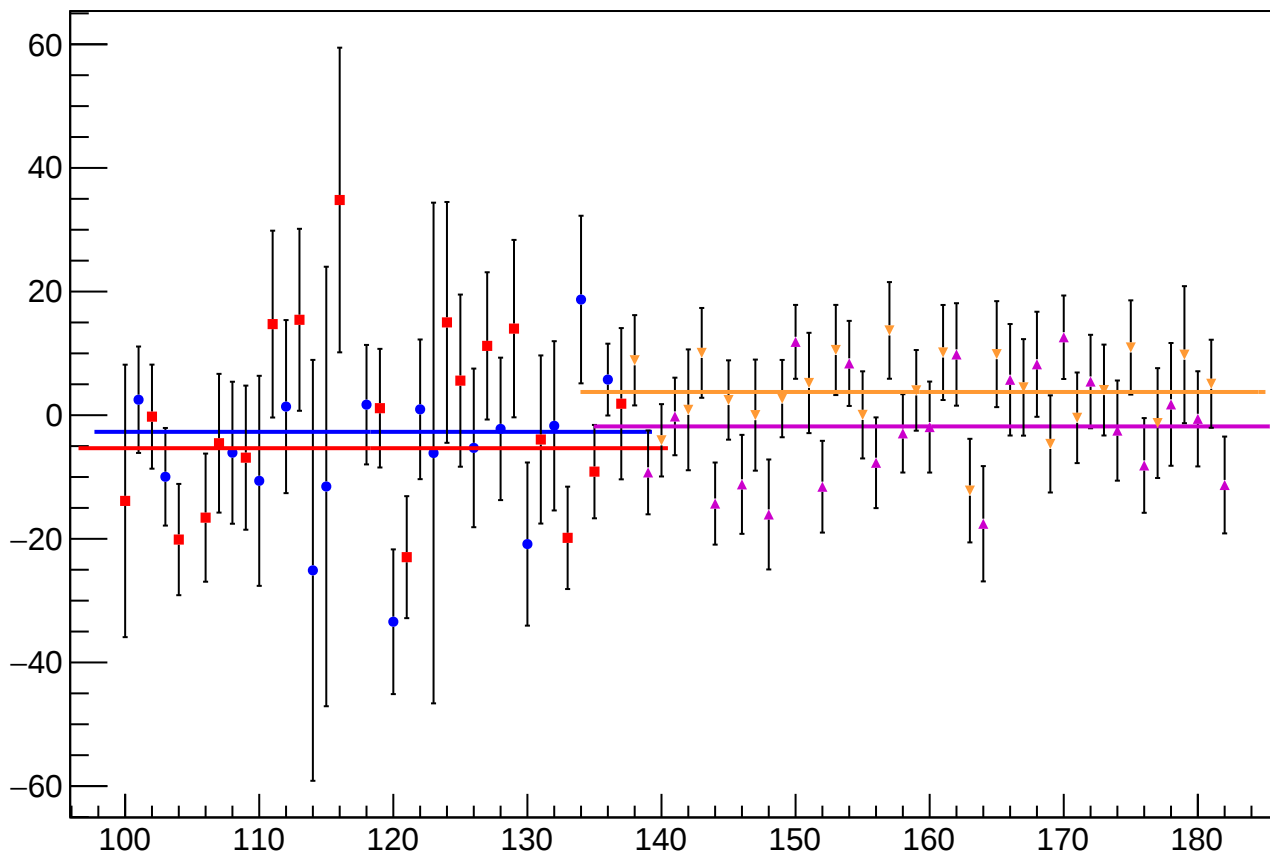
Right: 13049.037 $\pm$ 2.544 χ^2 /NDF: 1045578.8/35

In: 9445.646 $\pm$ 1.404 χ^2 /NDF: 1948674.5/38

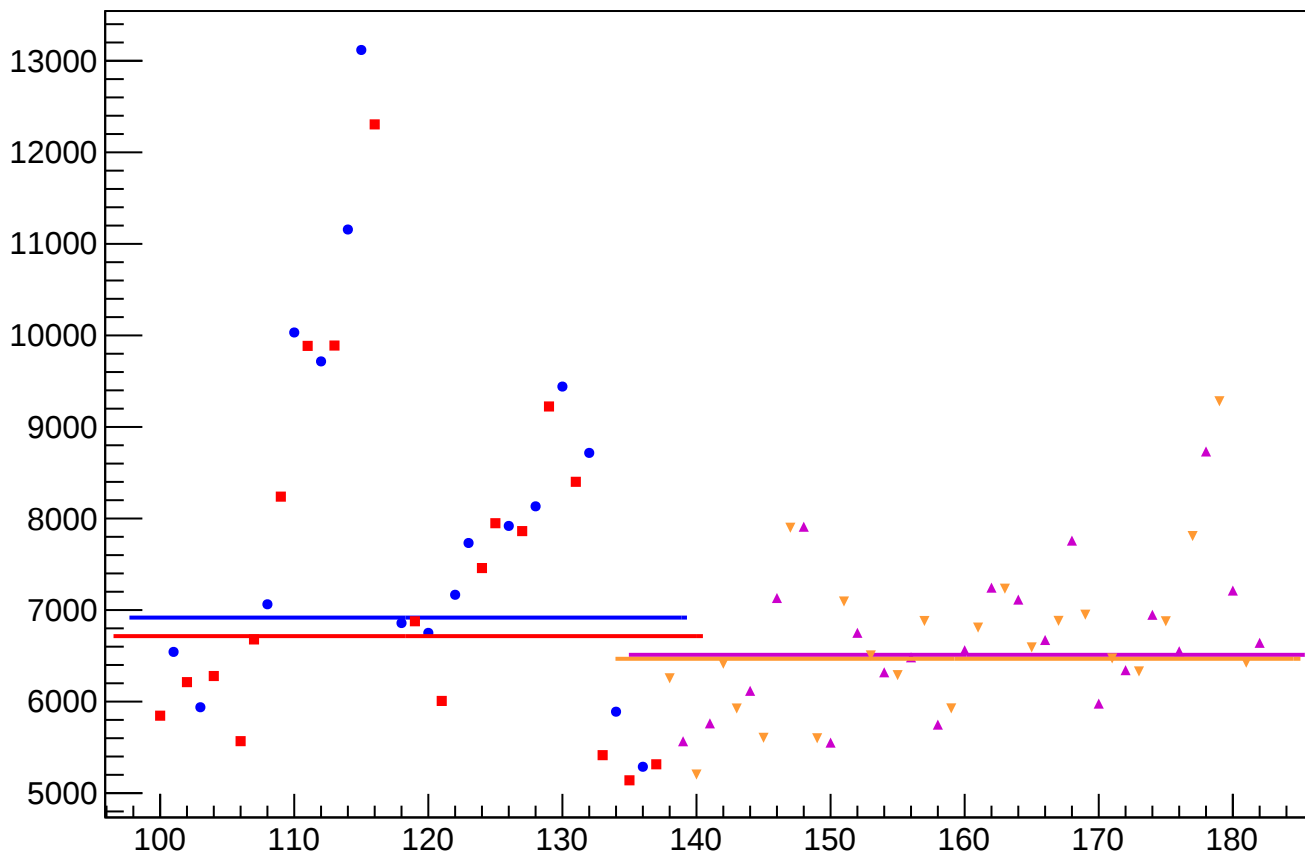
Out: 9467.378 $\pm$ 1.390 χ^2 /NDF: 2236094.8/41

All: 9456.615 $\pm$ 0.988 χ^2 /NDF: 4184890.3/80

diff_bpm4ecY_mean vs Slug, Sign Corrected



diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6917.700 ± 1.935 $\chi^2/\text{NDF}: 587164.4/16$

Left Out: 6467.548 ± 1.110 $\chi^2/\text{NDF}: 479576.7/22$

Right Out: 6715.087 ± 1.833 $\chi^2/\text{NDF}: 660008.2/18$

Left In: 6510.835 ± 1.126 $\chi^2/\text{NDF}: 424429.7/21$

Left: 6488.886 ± 0.790 $\chi^2/\text{NDF}: 904756.0/44$

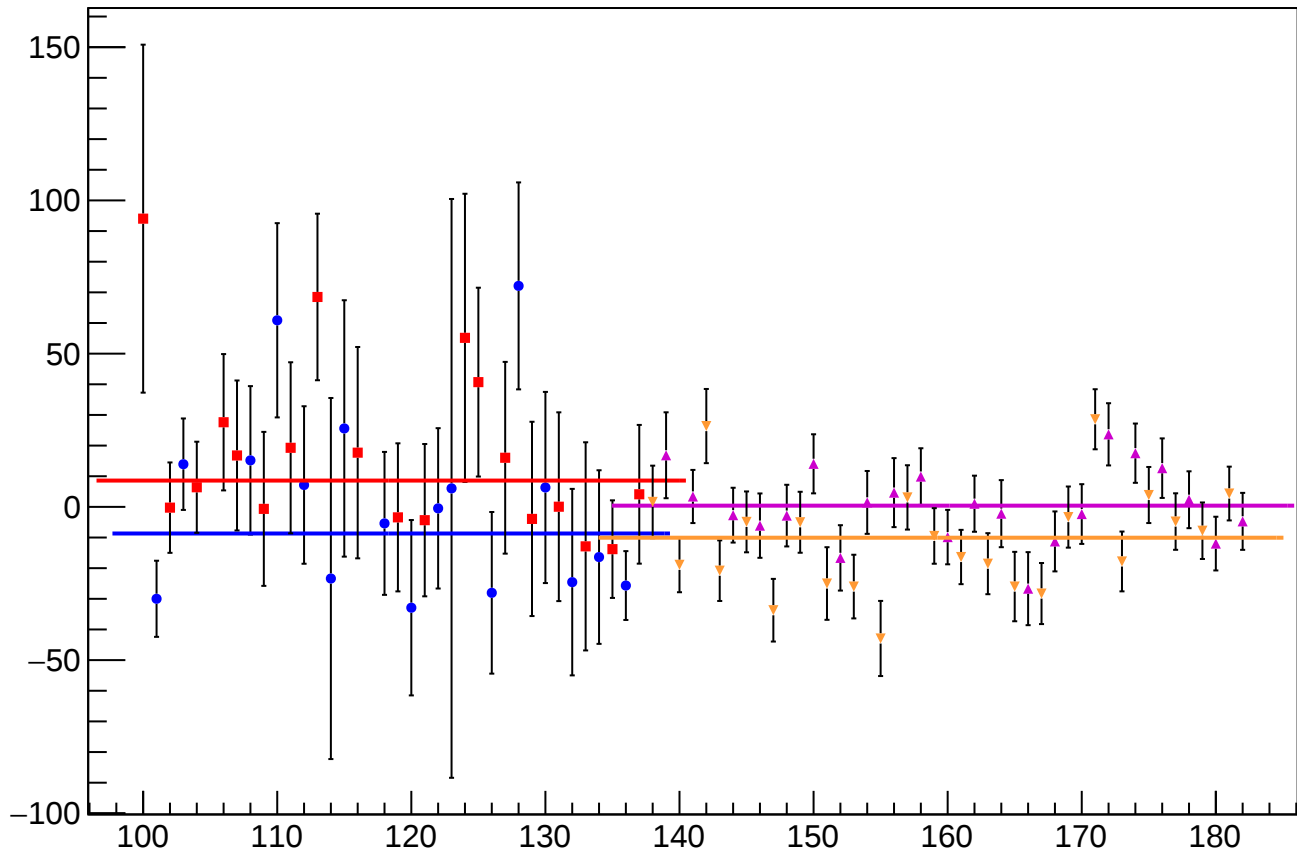
Right: 6810.919 ± 1.331 $\chi^2/\text{NDF}: 1252951.3/35$

In: 6613.740 ± 0.973 $\chi^2/\text{NDF}: 1044626.3/38$

Out: 6533.965 ± 0.949 $\chi^2/\text{NDF}: 1152928.3/41$

All: 6572.873 ± 0.680 $\chi^2/\text{NDF}: 2200997.5/80$

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -10.061 ± 2.081 χ^2/NDF : 59.4/22

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

Left In: 0.399 ± 2.100 χ^2/NDF : 28.3/21

Left: -4.879 ± 1.478 χ^2/NDF : 100.2/44

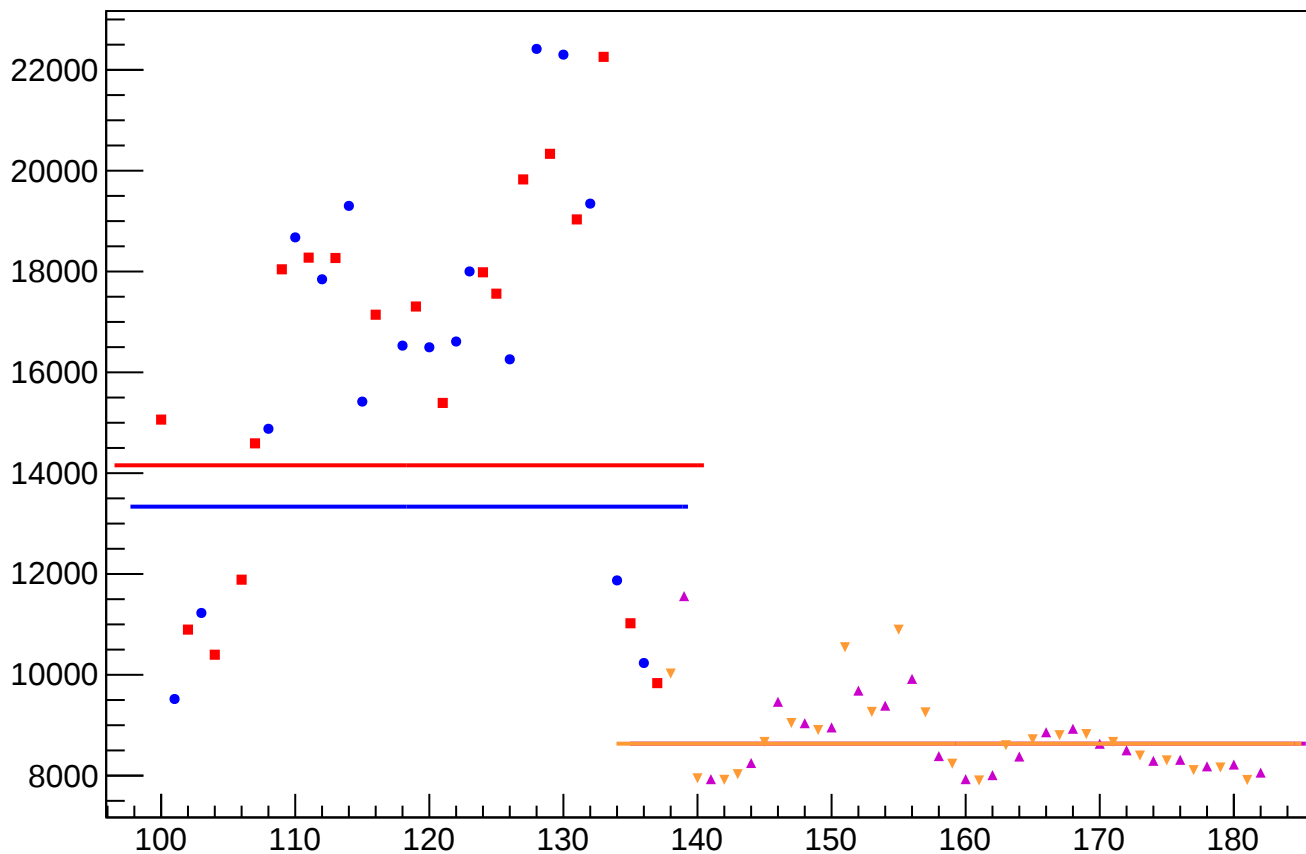
Right: -0.232 ± 3.859 χ^2/NDF : 41.1/35

In: -0.794 ± 1.958 χ^2/NDF : 52.8/38

Out: -7.738 ± 1.947 χ^2/NDF : 83.4/41

All: -4.285 ± 1.380 χ^2/NDF : 142.6/80

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8634.357 $\pm$ 1.472 χ^2 /NDF:241111.6/22

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

Left In: 8634.559 $\pm$ 1.485 χ^2 /NDF:227115.8/21

Left: 8634.457 $\pm$ 1.045 χ^2 /NDF: 468227.4/44

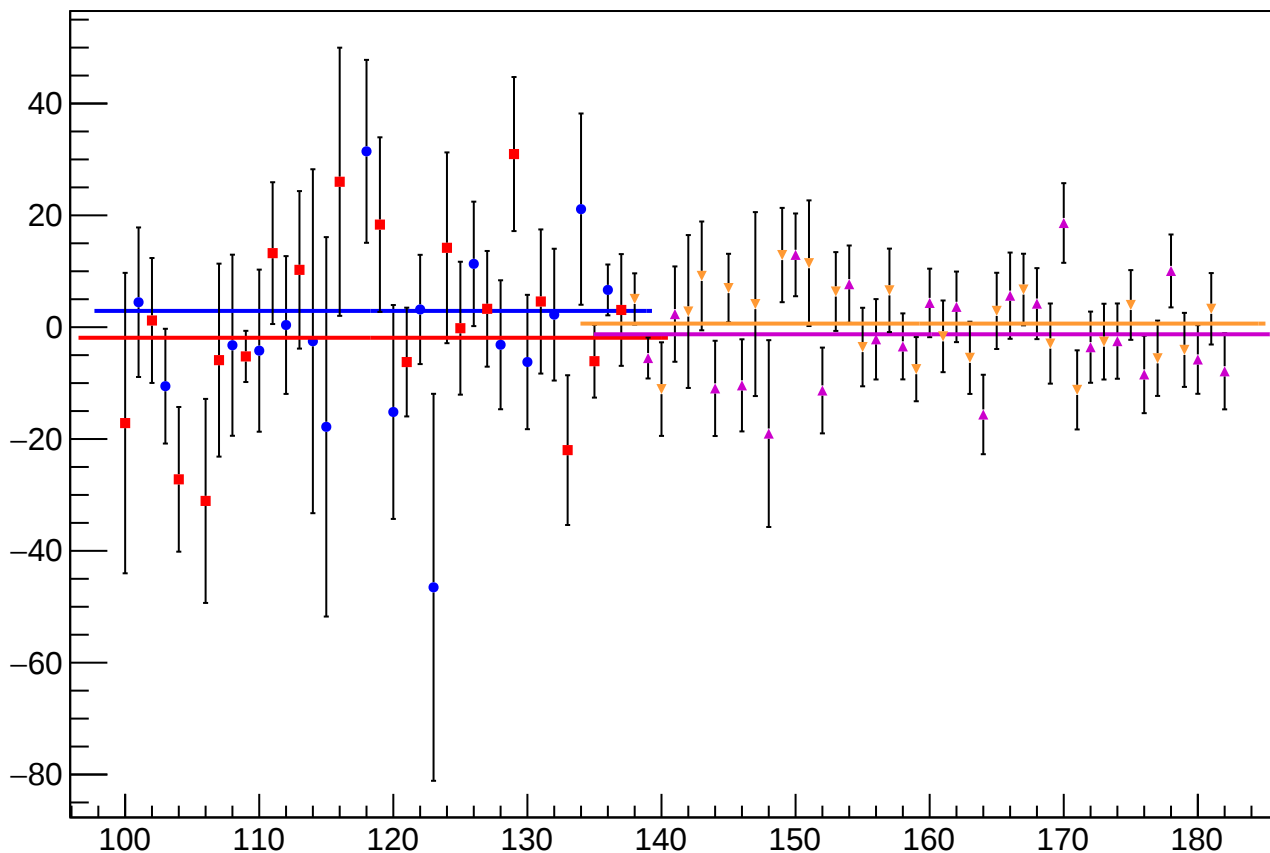
Right: 13737.272 $\pm$ 2.729 χ^2 /NDF: 2004248.2/35

In: 9252.048 $\pm$ 1.384 χ^2 /NDF:2592554.6/38

Out: 9322.325 $\pm$ 1.377 χ^2 /NDF:2927782.6/41

All: 9287.373 $\pm$ 0.976 χ^2 /NDF: 5521633.0/80

diff_bpm1Y_mean vs Slug, Sign Corrected



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

Left Out: 0.641 ± 1.459 $\chi^2/\text{NDF}: 18.6/22$

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

Left In: -1.269 ± 1.418 $\chi^2/\text{NDF}: 33.0/21$

Left: -0.341 ± 1.017 $\chi^2/\text{NDF}: 52.5/44$

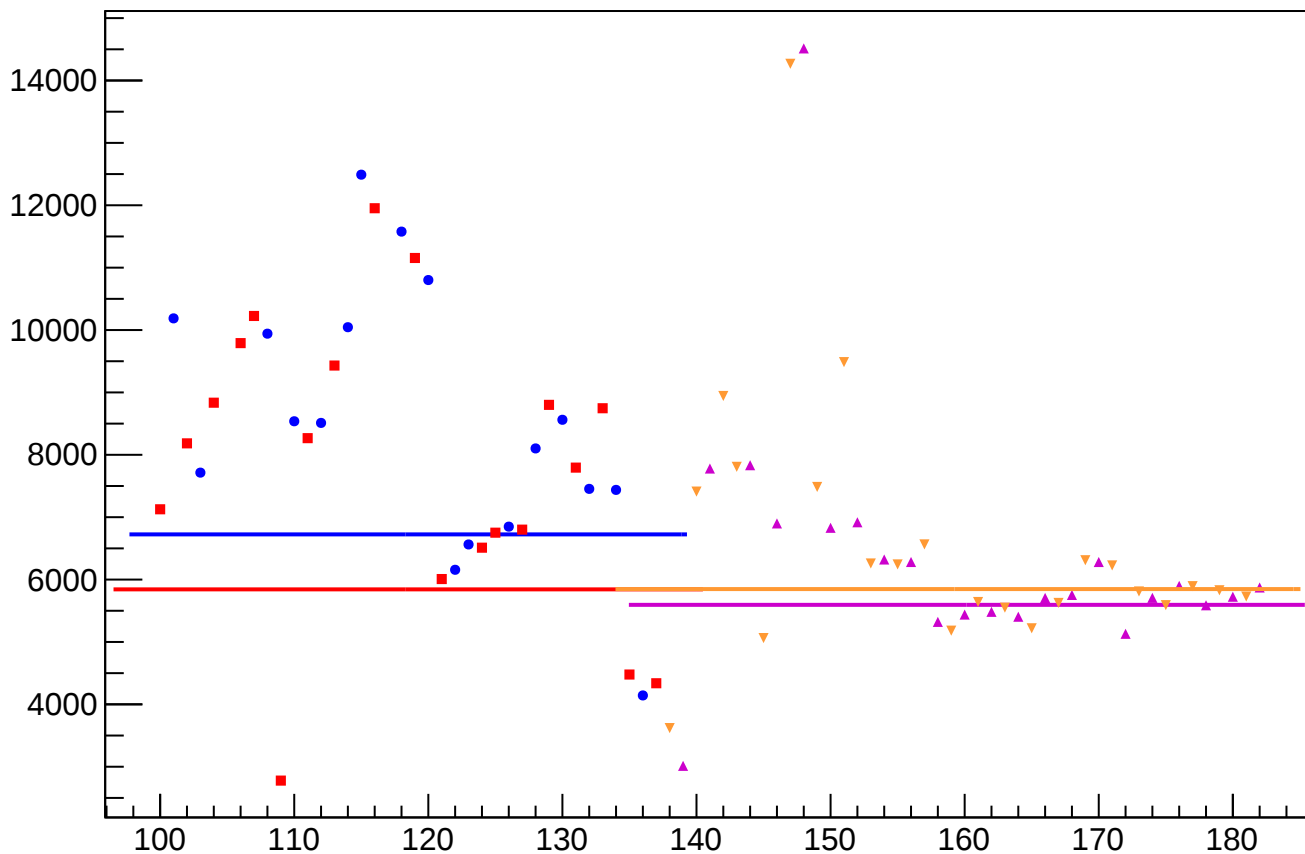
Right: 0.221 ± 1.829 $\chi^2/\text{NDF}: 36.3/35$

In: -0.395 ± 1.261 $\chi^2/\text{NDF}: 46.6/38$

Out: -0.025 ± 1.253 $\chi^2/\text{NDF}: 42.2/41$

All: -0.208 ± 0.889 $\chi^2/\text{NDF}: 88.9/80$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6724.403+/-1.950 χ^2/NDF : 1391680.1/16

Left Out: 5847.696+/-1.032 χ^2/NDF : 1671656.0/22

Right Out: 5843.007+/-1.728 χ^2/NDF : 2280742.0/18

Left In: 5594.891+/-1.003 χ^2/NDF : 2089519.8/21

Left: 5717.685+/-0.719 χ^2/NDF : 3792036.9/44

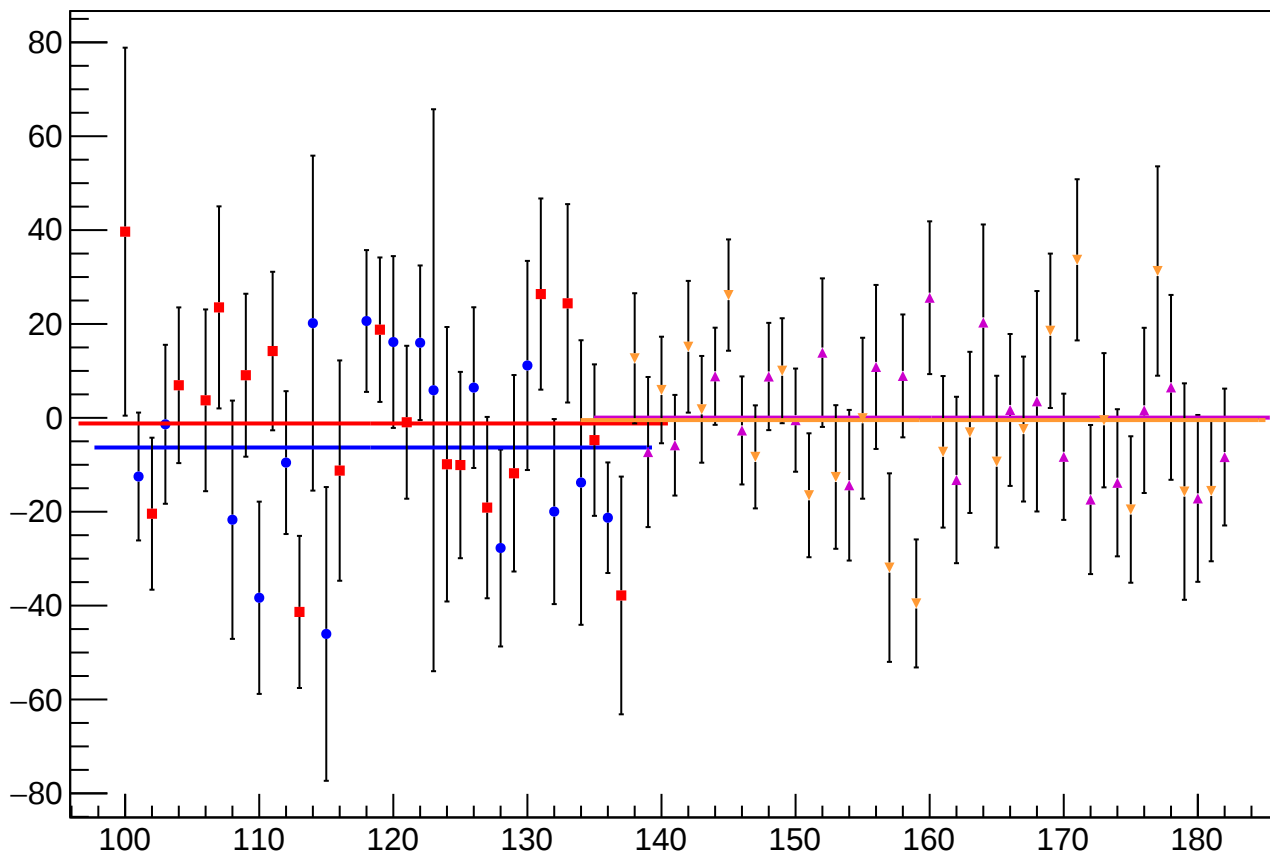
Right: 6230.735+/-1.293 χ^2/NDF : 3786855.2/35

In: 5831.185+/-0.892 χ^2/NDF : 3746534.5/38

Out: 5846.463+/-0.886 χ^2/NDF : 3952403.4/41

All: 5838.874+/-0.629 χ^2/NDF : 7699085.6/80

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.317 ± 4.525 χ^2/NDF : 16.2/16

Left Out: -0.479 ± 3.025 χ^2/NDF : 32.4/22

Right Out: -1.197 ± 4.382 χ^2/NDF : 20.2/18

Left In: 0.049 ± 3.093 χ^2/NDF : 12.1/21

Left: -0.221 ± 2.162 χ^2/NDF : 44.5/44

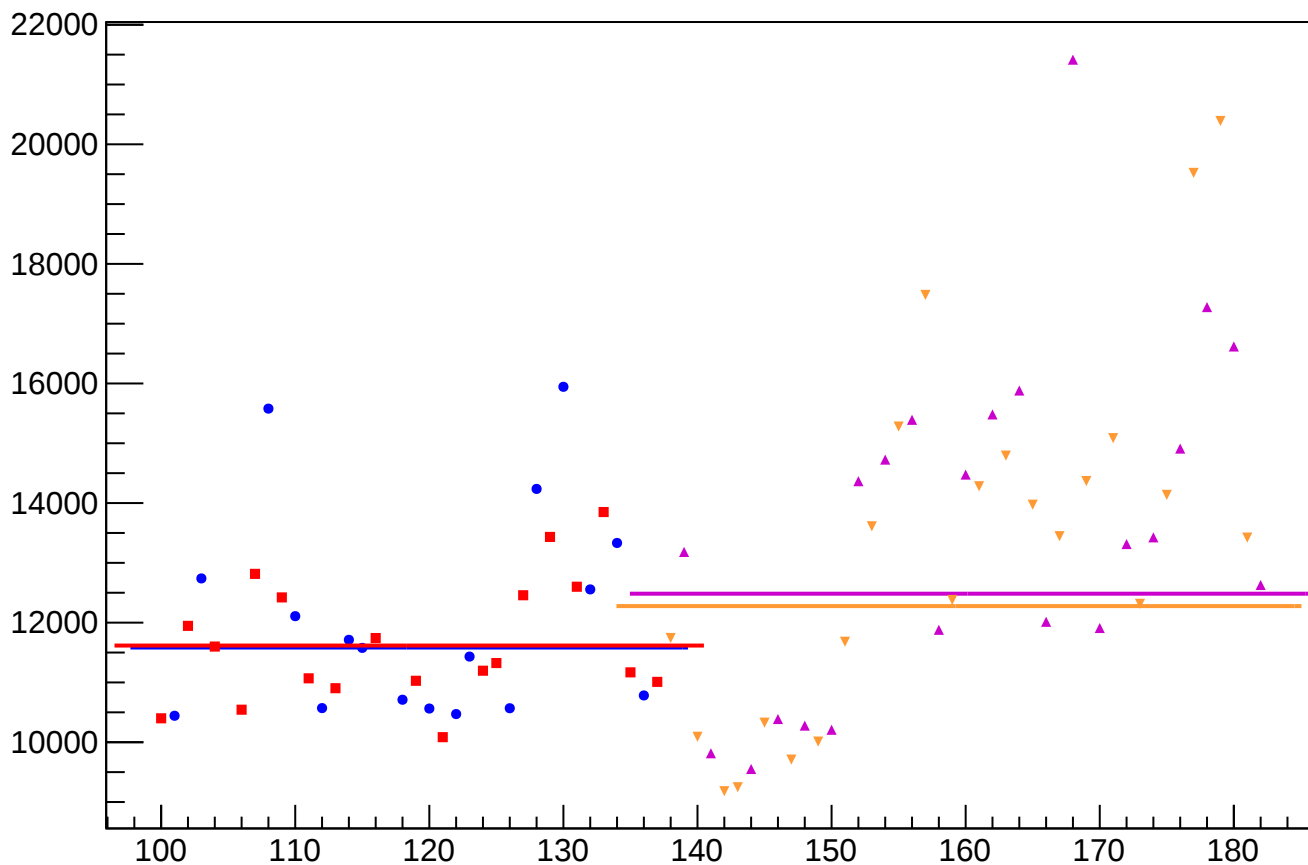
Right: -3.675 ± 3.148 χ^2/NDF : 37.1/35

In: -1.979 ± 2.553 χ^2/NDF : 29.6/38

Out: -0.711 ± 2.489 χ^2/NDF : 52.6/41

All: -1.328 ± 1.782 χ^2/NDF : 82.4/80

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 12276.683+/-2.139 χ^2/NDF : 1464113.9/22

Right Out: 11616.845+/-3.098 χ^2/NDF : 95463.1/18

Left In: 12484.160+/-2.187 χ^2/NDF : 1354209.4/21

Left: 12378.114+/-1.529 χ^2/NDF : 2822923.5/44

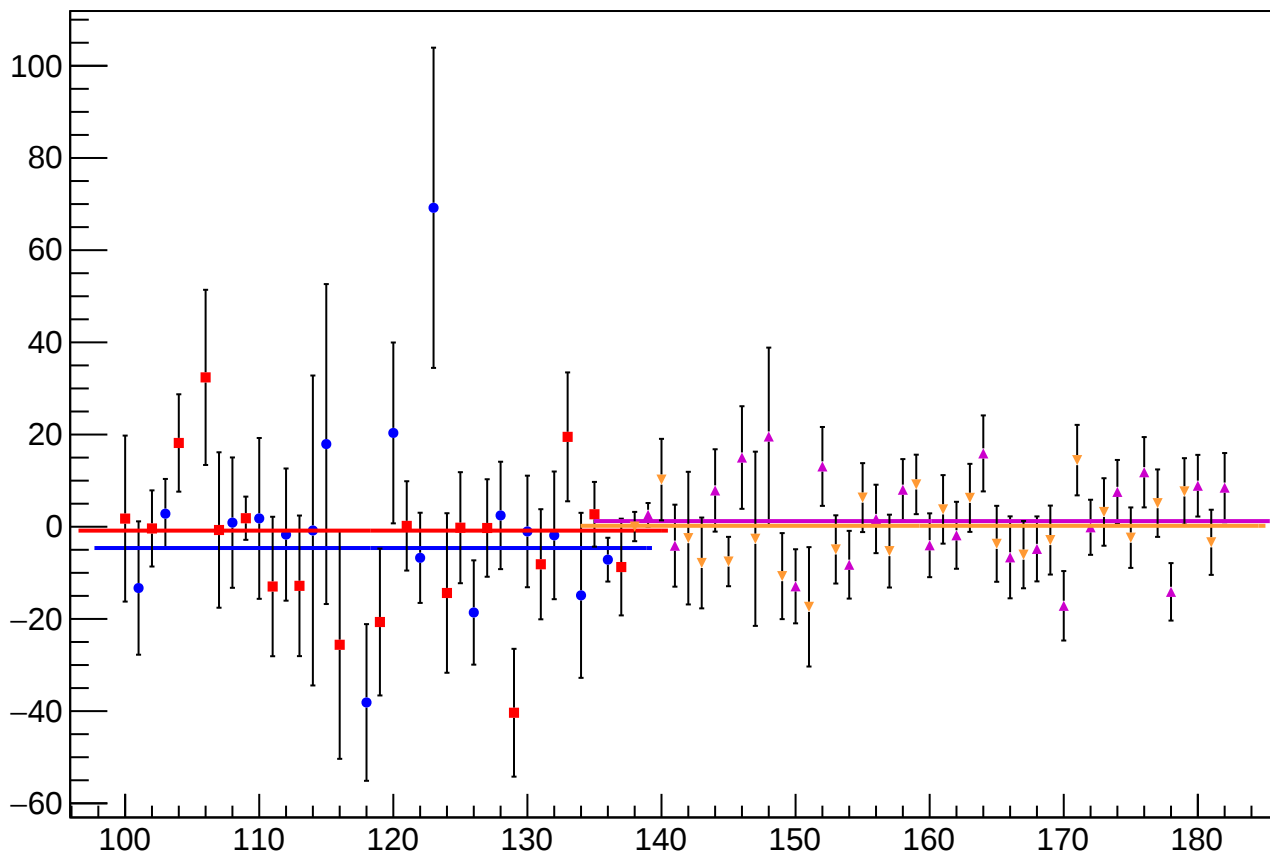
Right: 11600.972+/-2.226 χ^2/NDF : 337068.1/35

In: 12197.547+/-1.805 χ^2/NDF : 1649700.9/38

Out: 12063.729+/-1.760 χ^2/NDF : 1590293.2/41

All: 12128.937+/-1.260 χ^2/NDF : 3242810.6/80

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: 0.204 ± 1.470 χ^2/NDF : 18.5/22

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

Left In: 1.226 ± 1.395 χ^2/NDF : 33.9/21

Left: 0.742 ± 1.012 χ^2/NDF : 52.6/44

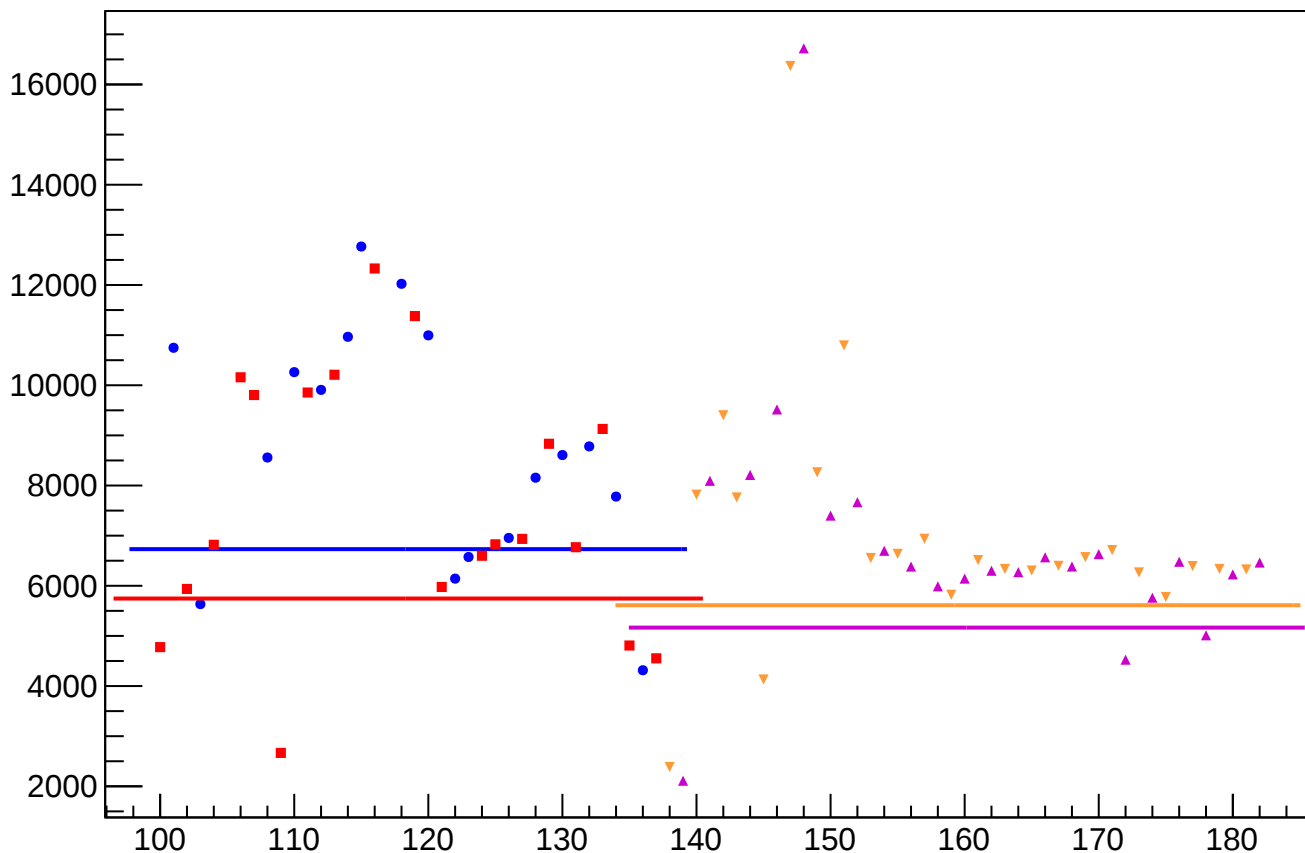
Right: -2.475 ± 1.830 χ^2/NDF : 38.4/35

In: 0.052 ± 1.247 χ^2/NDF : 52.2/38

Out: -0.075 ± 1.258 χ^2/NDF : 41.2/41

All: -0.011 ± 0.886 χ^2/NDF : 93.4/80

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.931 ± 1.967 $\chi^2/\text{NDF}: 1444572.7/16$

Left Out: 5612.141 ± 1.039 $\chi^2/\text{NDF}: 4073718.4/22$

Right Out: 5745.707 ± 1.719 $\chi^2/\text{NDF}: 2164630.9/18$

Left In: 5165.628 ± 0.987 $\chi^2/\text{NDF}: 5332876.3/21$

Left: 5377.320 ± 0.715 $\chi^2/\text{NDF}: 9503698.7/44$

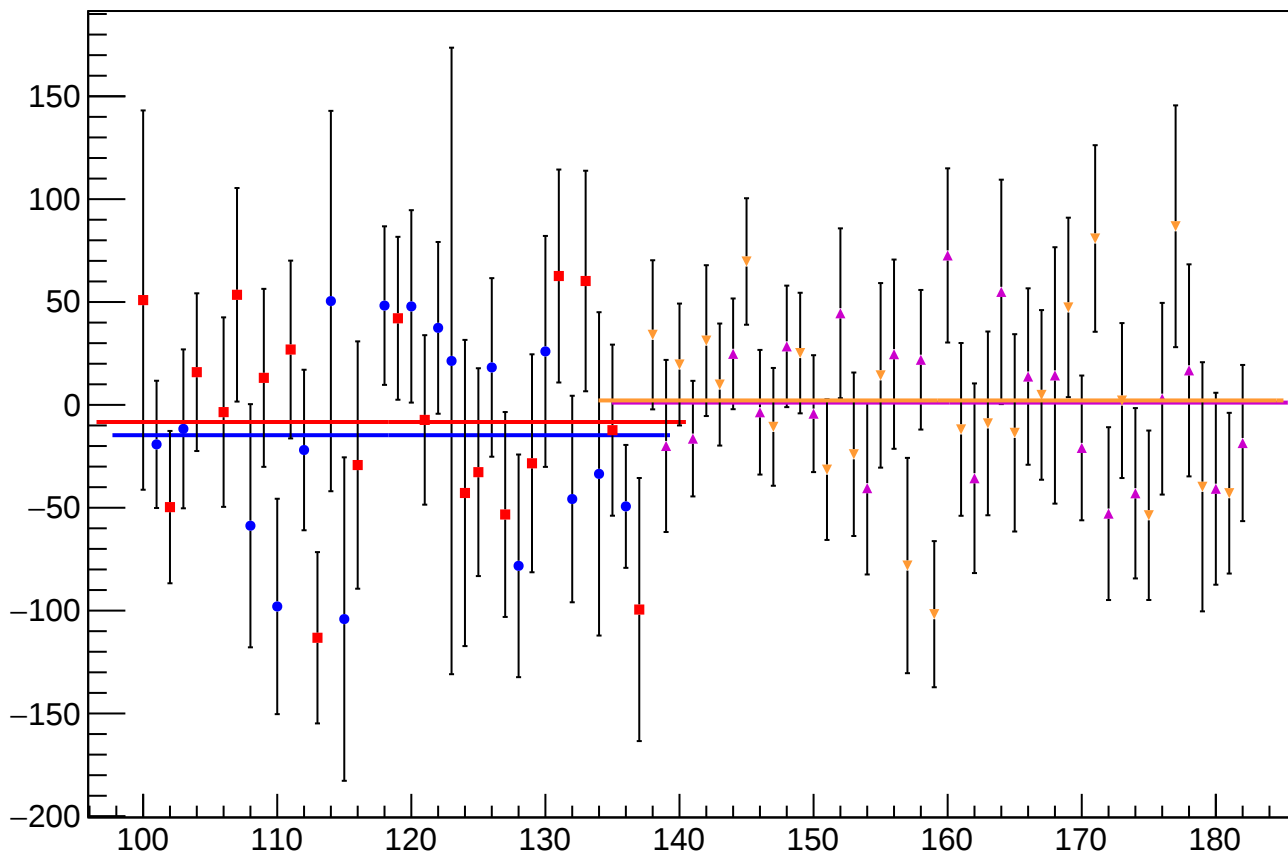
Right: 6172.245 ± 1.294 $\chi^2/\text{NDF}: 3751459.2/35$

In: 5480.265 ± 0.882 $\chi^2/\text{NDF}: 7283397.9/38$

Out: 5647.893 ± 0.889 $\chi^2/\text{NDF}: 6242771.8/41$

All: 5563.385 ± 0.626 $\chi^2/\text{NDF}: 13544084.4/86$

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 2.159 $\pm$ 7.910 χ^2/NDF : 30.0/22

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

Left In: 1.106 $\pm$ 8.083 χ^2/NDF : 14.0/21

Left: 1.644 $\pm$ 5.653 χ^2/NDF : 44.0/44

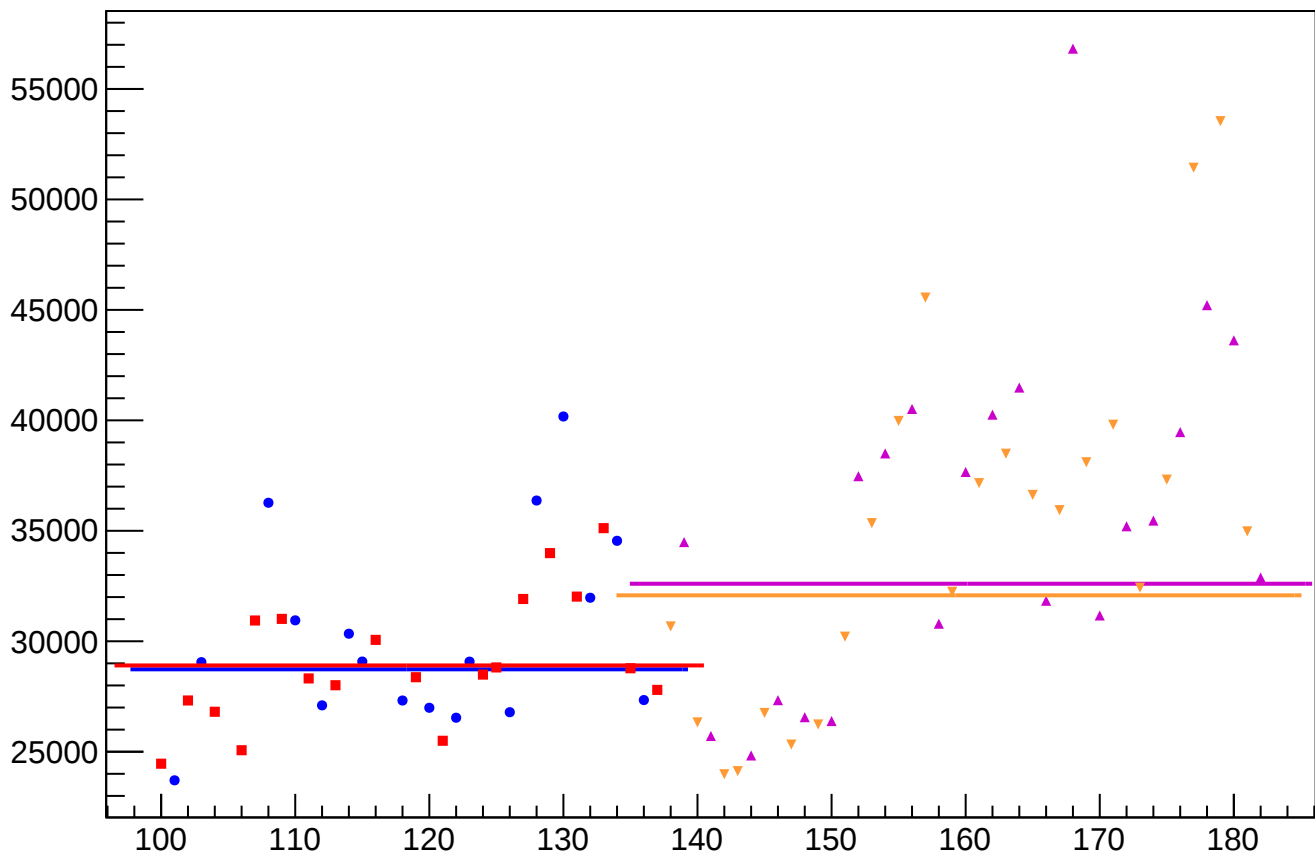
Right: -11.435 $\pm$ 7.828 χ^2/NDF : 34.9/35

In: -4.296 $\pm$ 6.562 χ^2/NDF : 30.6/38

Out: -1.451 $\pm$ 6.404 χ^2/NDF : 50.0/41

All: -2.839 $\pm$ 4.583 χ^2/NDF : 80.7/80

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28729.913+/-7.946 χ^2/NDF : 254816.0/16

Left Out: 32079.840+/-5.593 χ^2/NDF :1498743.1/22

Right Out: 28905.793+/-7.716 χ^2/NDF : 112668.4/18

Left In: 32603.864+/-5.715 χ^2/NDF :1398404.9/21

Left: 32336.173+/-3.997 χ^2/NDF : 2901442.2/44

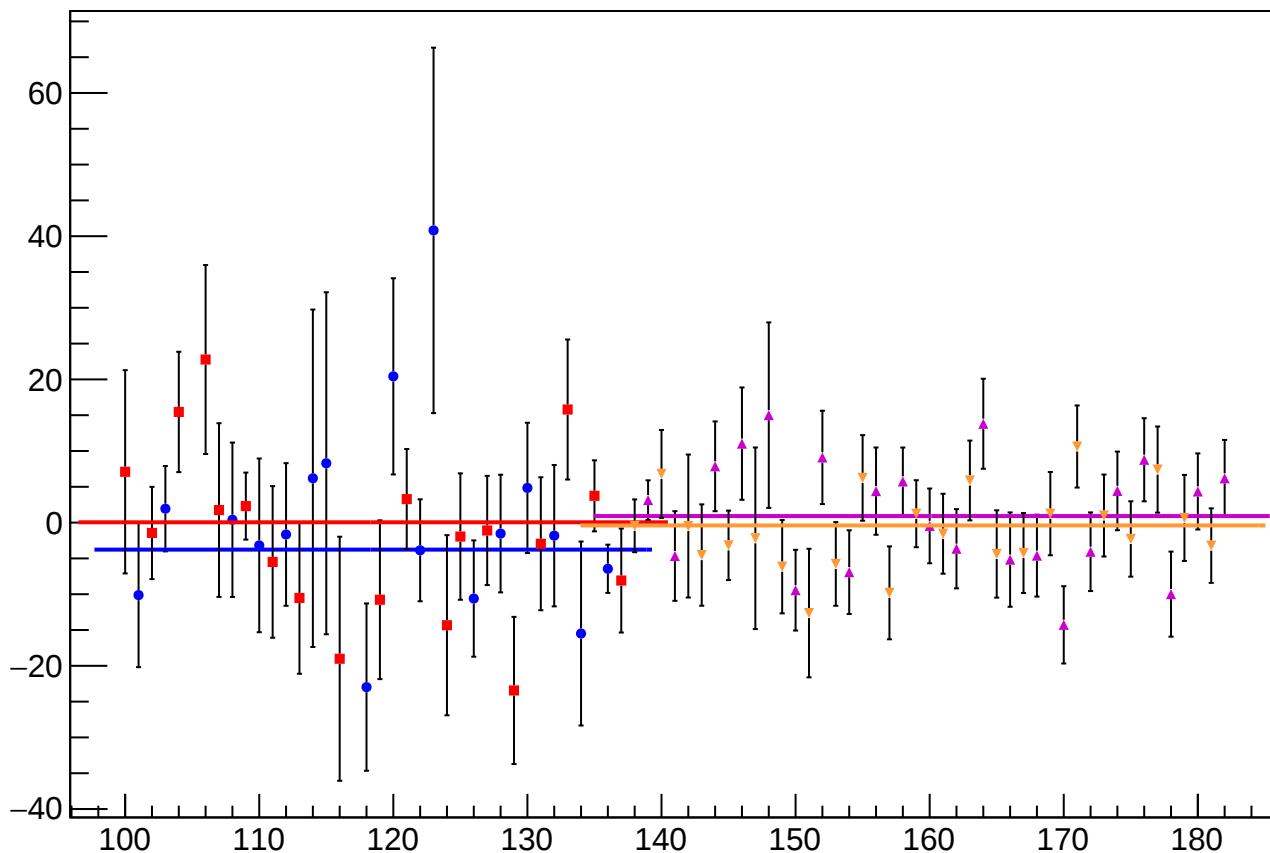
Right: 28820.430+/-5.536 χ^2/NDF : 367736.6/35

In: 31282.908+/-4.640 χ^2/NDF :1809875.5/38

Out: 30986.626+/-4.528 χ^2/NDF :1722341.6/41

All: 31131.169+/-3.241 χ^2/NDF : 3534305.5/8

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -0.395 ± 1.209 $\chi^2/\text{NDF}: 17.2/22$

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

Left In: 0.915 ± 1.165 $\chi^2/\text{NDF}: 36.1/21$

Left: 0.284 ± 0.839 $\chi^2/\text{NDF}: 53.9/44$

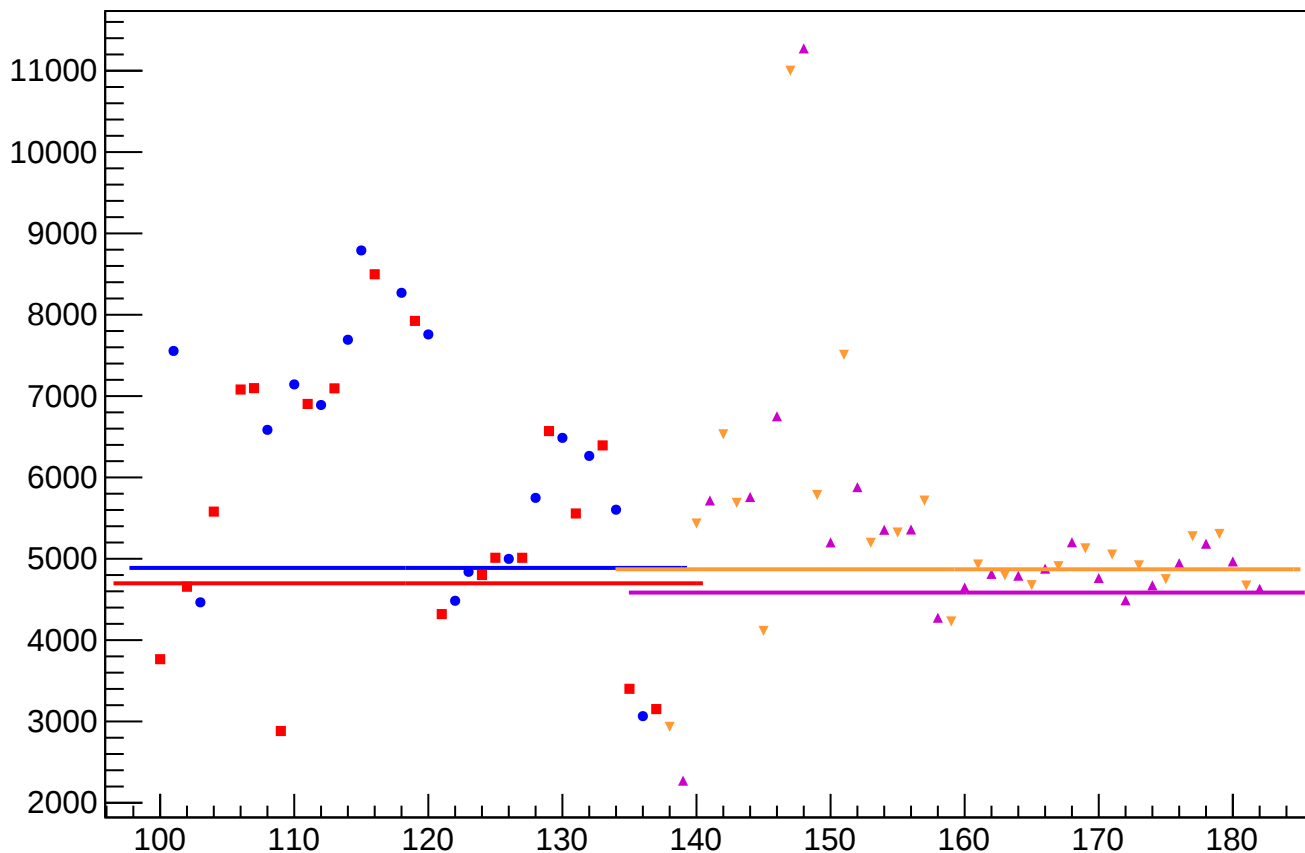
Right: -1.752 ± 1.378 $\chi^2/\text{NDF}: 37.6/35$

In: -0.264 ± 1.008 $\chi^2/\text{NDF}: 54.2/38$

Out: -0.269 ± 1.019 $\chi^2/\text{NDF}: 38.9/41$

All: -0.266 ± 0.717 $\chi^2/\text{NDF}: 93.1/80$

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4870.730 $\pm$ 0.855 χ^2/NDF : 1500843.9/22

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

Left In: 4584.480 $\pm$ 0.824 χ^2/NDF : 2478271.5/21

Left: 4722.229 $\pm$ 0.593 χ^2/NDF : 4037248.5/44

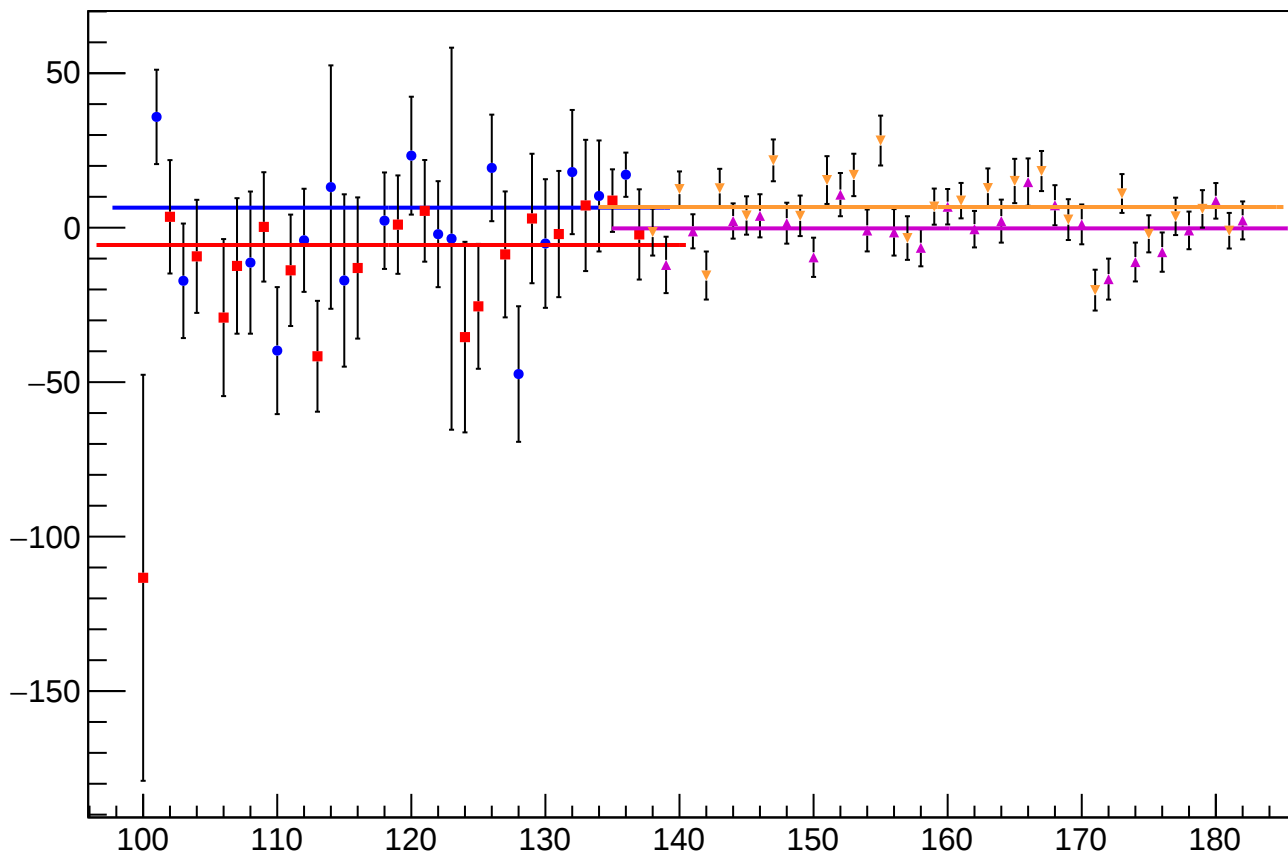
Right: 4787.445 $\pm$ 0.975 χ^2/NDF : 2734101.5/35

In: 4660.712 $\pm$ 0.713 χ^2/NDF : 3920990.6/38

Out: 4820.816 $\pm$ 0.721 χ^2/NDF : 2828673.0/41

All: 4739.854 $\pm$ 0.507 χ^2/NDF : 6774616.6/80

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 6.689 ± 1.355 χ^2/NDF : 56.5/22

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

Left In: -0.225 ± 1.371 χ^2/NDF : 28.0/21

Left: 3.273 ± 0.964 χ^2/NDF : 97.4/44

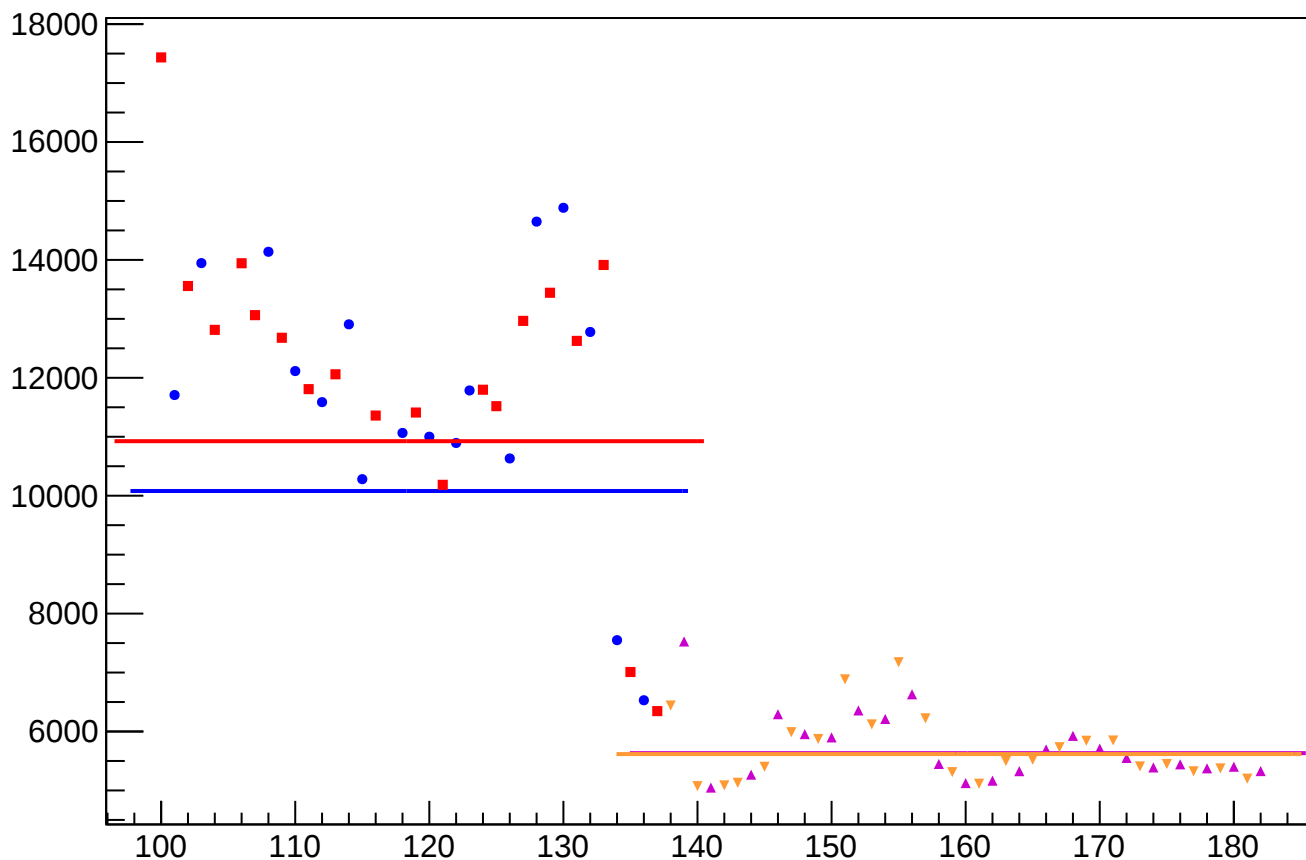
Right: 0.666 ± 2.933 χ^2/NDF : 40.5/35

In: 0.458 ± 1.299 χ^2/NDF : 53.2/38

Out: 5.544 ± 1.290 χ^2/NDF : 77.7/41

All: 3.019 ± 0.916 χ^2/NDF : 138.6/80

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5616.964 $\pm$ 0.958 χ^2 /NDF: 277496.2/22

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

Left In: 5632.884 $\pm$ 0.969 χ^2 /NDF: 269263.0/21

Left: 5624.830 $\pm$ 0.681 χ^2 /NDF: 546895.6/44

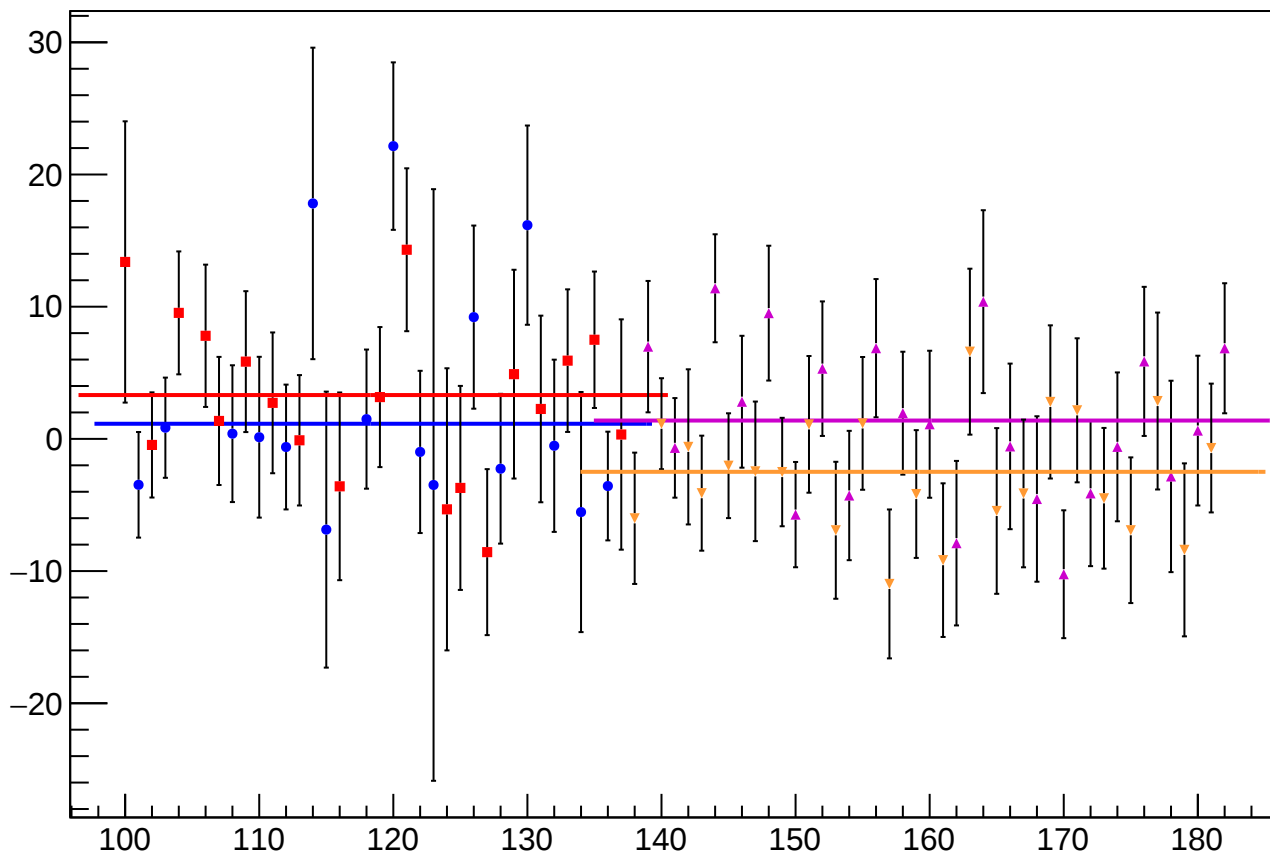
Right: 10486.688 $\pm$ 2.074 χ^2 /NDF: 1810531.7/35

In: 6085.621 $\pm$ 0.919 χ^2 /NDF: 3411032.2/38

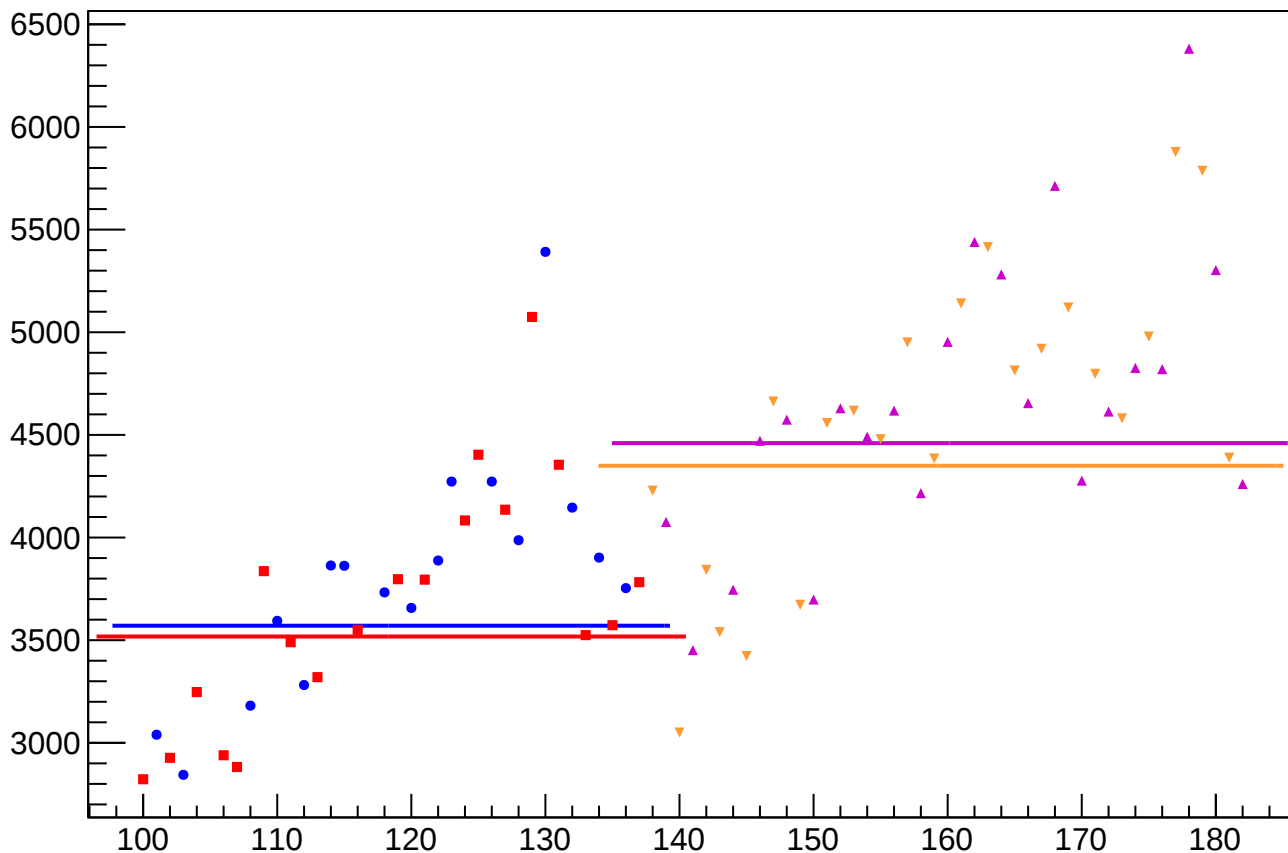
Out: 6111.465 $\pm$ 0.912 χ^2 /NDF: 3907141.1/41

All: 6098.634 $\pm$ 0.647 χ^2 /NDF: 7318571.8/80

diff_bpm16Y_mean vs Slug, Sign Corrected



diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4349.560 $\pm$ 0.751 χ^2 /NDF:980296.3/22

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

Left In: 4460.049 $\pm$ 0.773 χ^2 /NDF:685220.9/21

Left: 4403.194 $\pm$ 0.539 χ^2 /NDF: 1676022.8/44

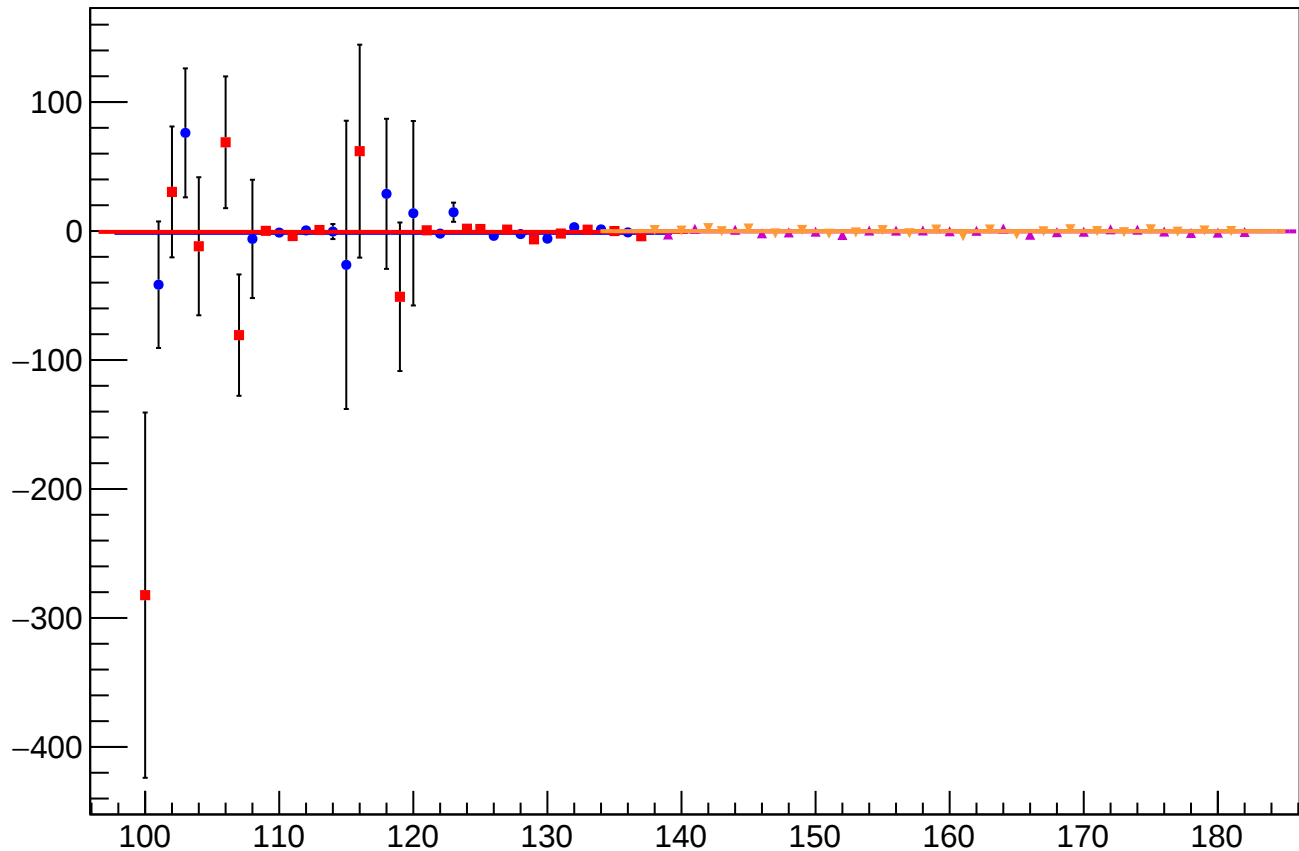
Right: 3543.048 $\pm$ 0.683 χ^2 /NDF: 608059.5/35

In: 4122.285 $\pm$ 0.609 χ^2 /NDF:1498066.6/38

Out: 4027.278 $\pm$ 0.588 χ^2 /NDF:1751599.4/41

All: 4073.096 $\pm$ 0.423 χ^2 /NDF: 3262265.9/80

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.101 ± 0.255 χ^2/NDF : 34.0/22

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

Left In: -0.273 ± 0.258 χ^2/NDF : 27.0/21

Left: -0.186 ± 0.181 χ^2/NDF : 61.2/44

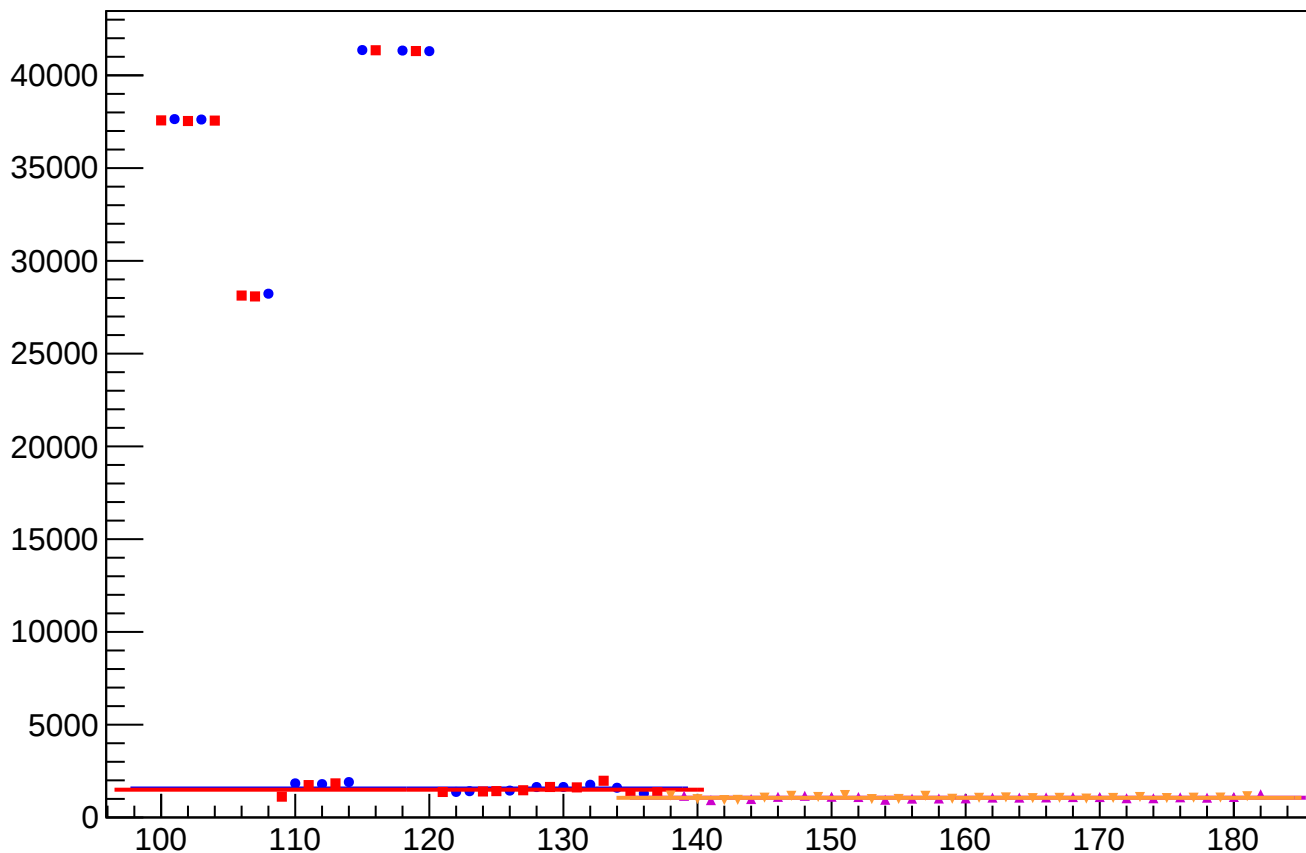
Right: -1.014 ± 0.517 χ^2/NDF : 38.7/35

In: -0.392 ± 0.244 χ^2/NDF : 45.7/38

Out: -0.165 ± 0.240 χ^2/NDF : 56.0/41

All: -0.276 ± 0.171 χ^2/NDF : 102.1/80

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1058.549 $\pm$ 0.180 χ^2 /NDF: 144567.9/22

Right Out: 1496.346 $\pm$ 0.504 χ^2 /NDF: 4893466.6/18

Left In: 1063.641 $\pm$ 0.183 χ^2 /NDF: 145954.9/21

Left: 1061.057 $\pm$ 0.128 χ^2 /NDF: 290916.8/44

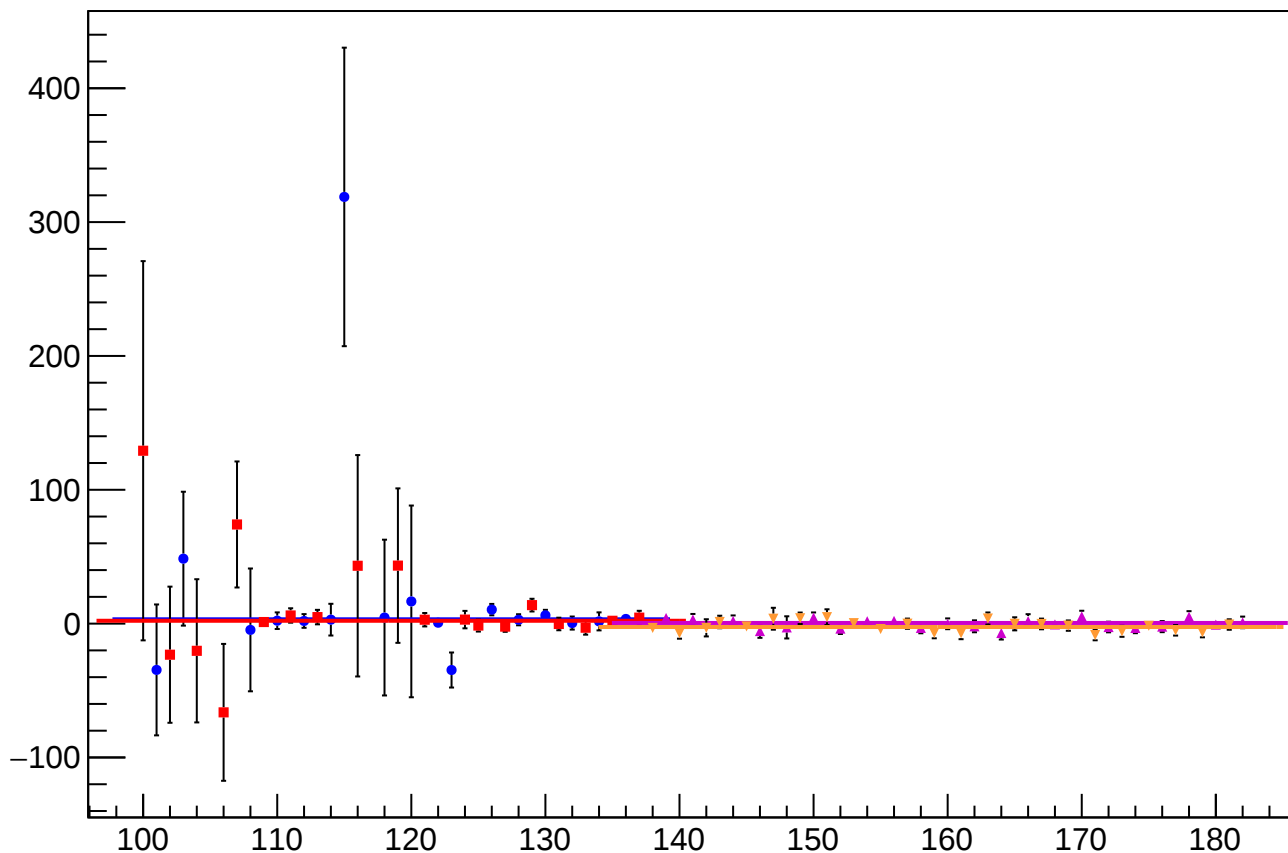
Right: 1526.792 $\pm$ 0.366 χ^2 /NDF: 9654372.3/35

In: 1116.293 $\pm$ 0.173 χ^2 /NDF: 5682734.4/38

Out: 1108.042 $\pm$ 0.170 χ^2 /NDF: 5706737.5/41

All: 1112.089 $\pm$ 0.121 χ^2 /NDF: 11390634.0/80

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -2.533 $\pm$ 0.830 χ^2/NDF : 17.4/22

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

Left In: 0.496 $\pm$ 0.849 χ^2/NDF : 15.4/21

Left: -1.053 $\pm$ 0.594 χ^2/NDF : 39.3/44

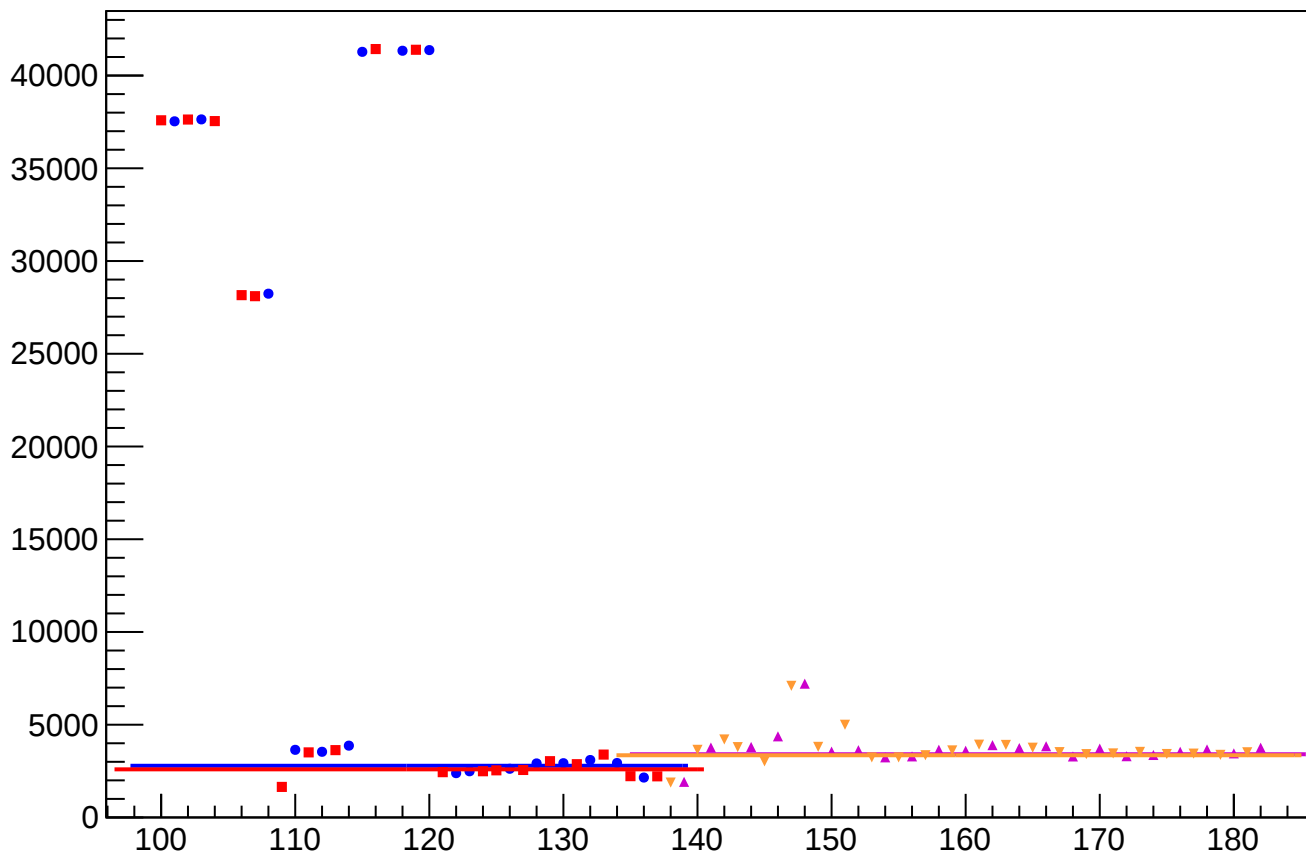
Right: 2.648 $\pm$ 0.906 χ^2/NDF : 39.1/35

In: 1.290 $\pm$ 0.715 χ^2/NDF : 40.6/38

Out: -1.086 $\pm$ 0.690 χ^2/NDF : 43.8/41

All: 0.058 $\pm$ 0.496 χ^2/NDF : 90.1/80

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3353.258+/-0.587 χ^2/NDF : 1631407.1/22

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

Left In: 3407.408+/-0.600 χ^2/NDF : 1430672.8/21

Left: 3379.719+/-0.420 χ^2/NDF : 3066239.2/44

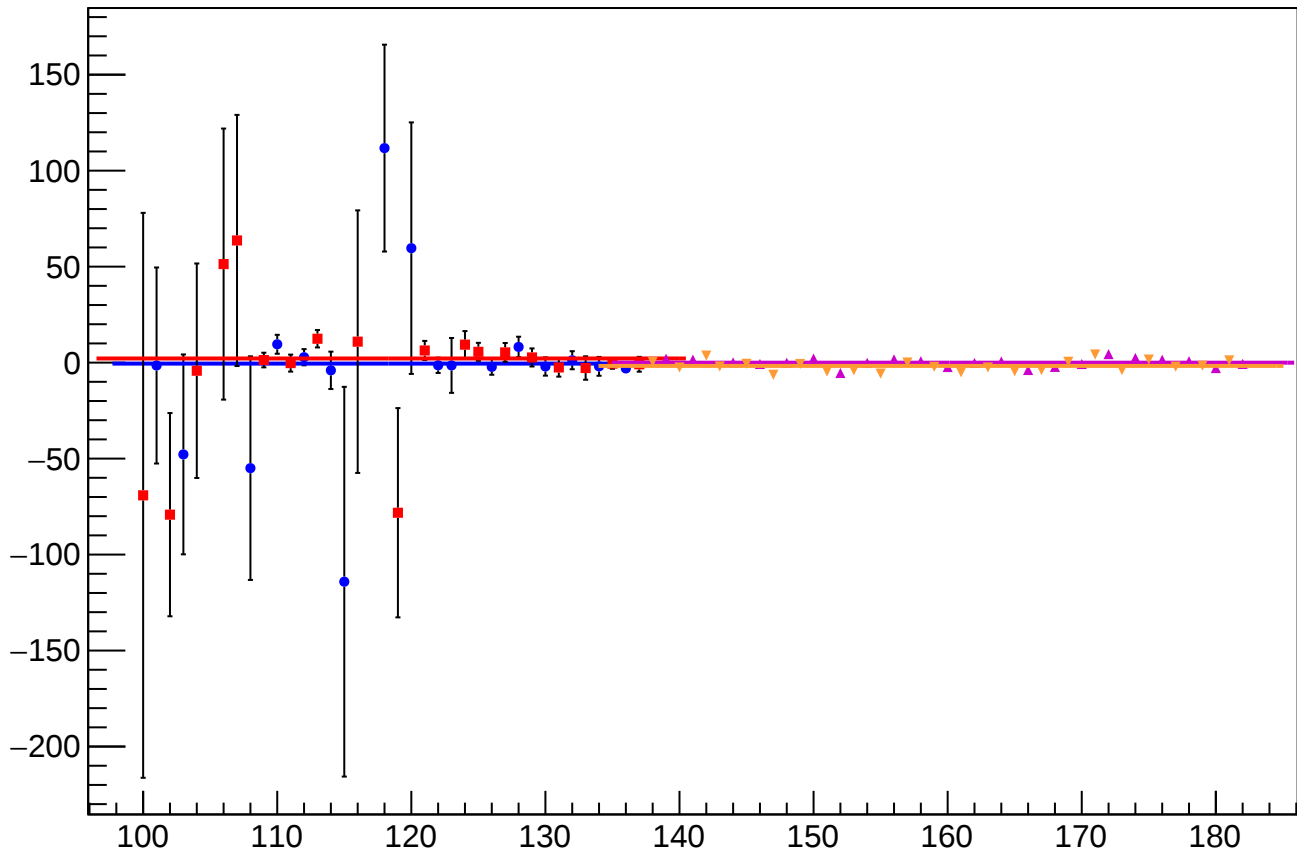
Right: 2683.369+/-0.641 χ^2/NDF : 9447510.4/35

In: 3227.073+/-0.506 χ^2/NDF : 6318155.9/38

Out: 3118.071+/-0.488 χ^2/NDF : 6998251.8/41

All: 3170.580+/-0.351 χ^2/NDF : 13340475.4/80

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.714 ± 0.399 χ^2/NDF : 45.1/22

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

Left In: -0.034 ± 0.404 χ^2/NDF : 27.7/21

Left: -0.885 ± 0.284 χ^2/NDF : 81.5/44

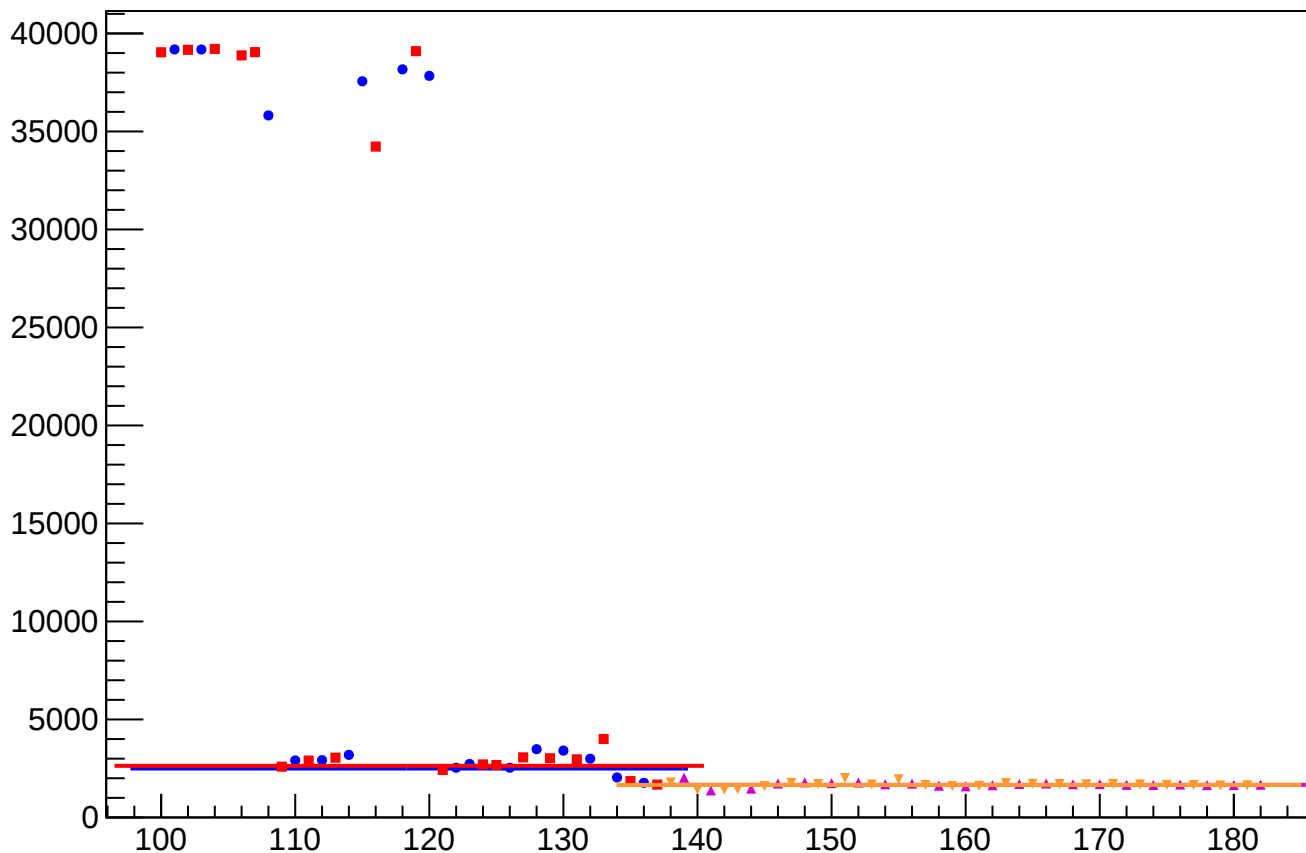
Right: 0.791 ± 0.874 χ^2/NDF : 37.9/35

In: -0.081 ± 0.384 χ^2/NDF : 45.8/38

Out: -1.356 ± 0.380 χ^2/NDF : 71.4/41

All: -0.724 ± 0.270 χ^2/NDF : 122.7/80

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1658.166 $\pm$ 0.282 χ^2 /NDF: 215499.8/22

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

Left In: 1662.980 $\pm$ 0.286 χ^2 /NDF: 178541.5/21

Left: 1660.543 $\pm$ 0.201 χ^2 /NDF: 394184.8/44

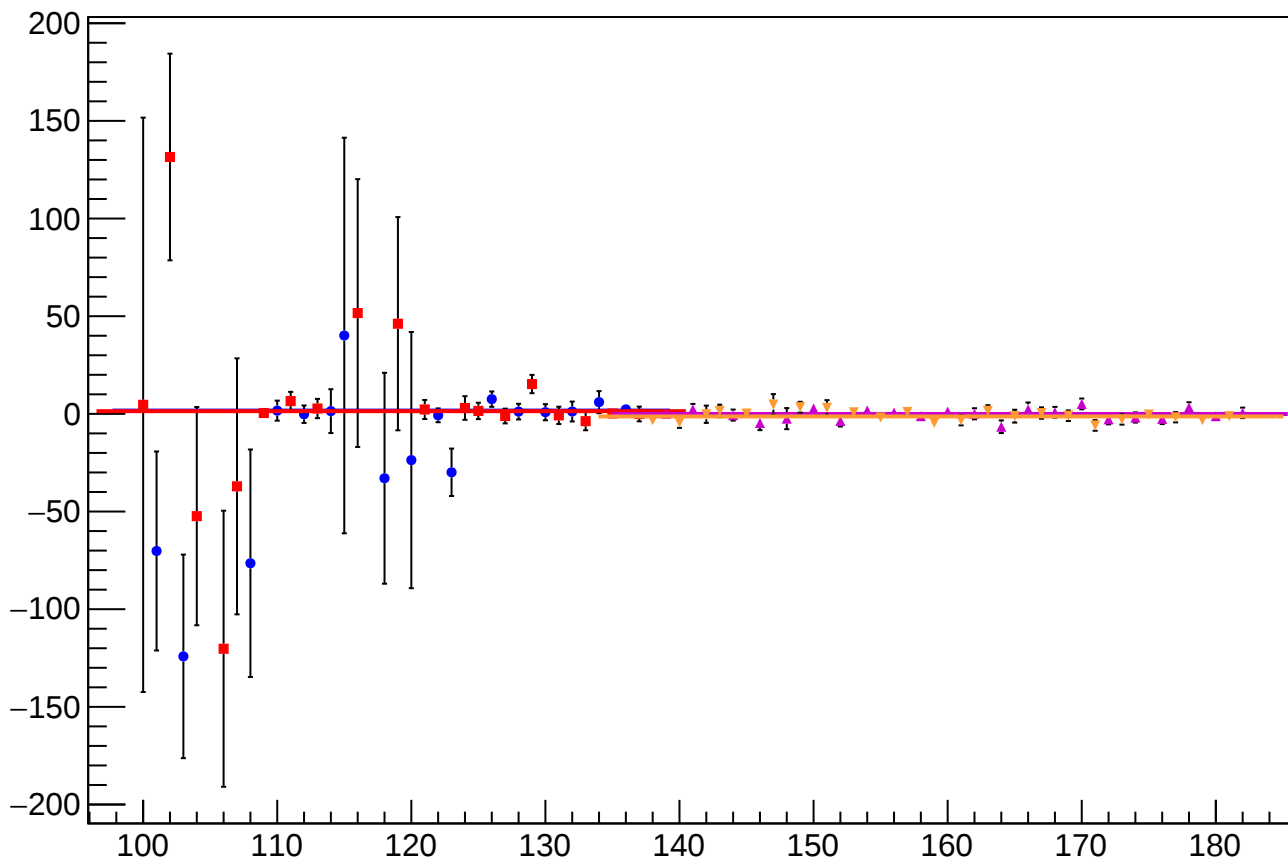
Right: 2564.162 $\pm$ 0.618 χ^2 /NDF: 9761958.6/35

In: 1745.252 $\pm$ 0.271 χ^2 /NDF: 5905920.9/38

Out: 1748.590 $\pm$ 0.269 χ^2 /NDF: 6184586.6/41

All: 1746.936 $\pm$ 0.191 χ^2 /NDF: 12090583.7/80

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.317 ± 0.549 $\chi^2/\text{NDF}: 19.1/22$

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

Left In: -0.056 ± 0.546 $\chi^2/\text{NDF}: 18.9/21$

Left: -0.682 ± 0.387 $\chi^2/\text{NDF}: 40.6/44$

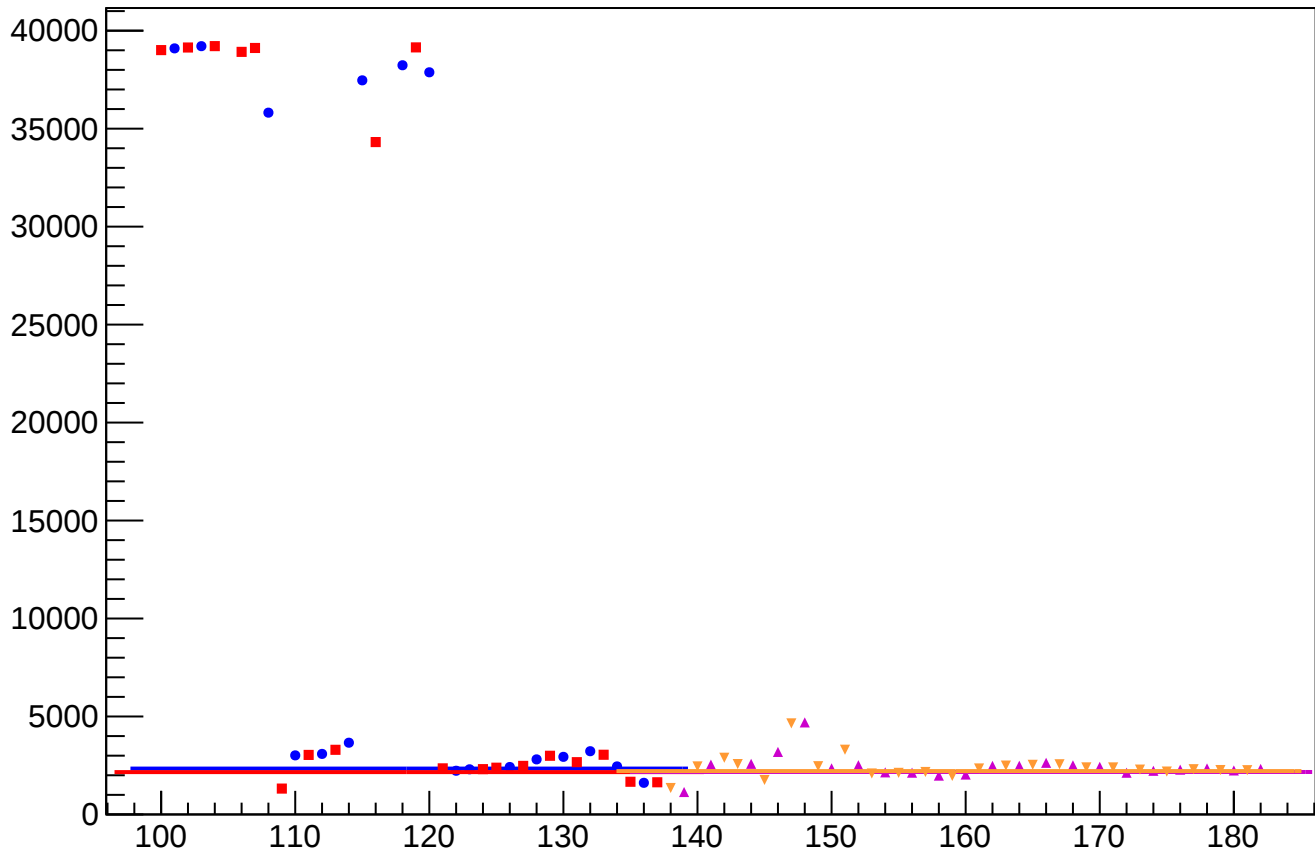
Right: 1.515 ± 0.780 $\chi^2/\text{NDF}: 44.9/35$

In: 0.263 ± 0.493 $\chi^2/\text{NDF}: 41.5/38$

Out: -0.751 ± 0.488 $\chi^2/\text{NDF}: 48.2/41$

All: -0.248 ± 0.347 $\chi^2/\text{NDF}: 91.8/80$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2213.515+/-0.388 χ^2/NDF : 1409460.9/22

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

Left In: 2167.315+/-0.386 χ^2/NDF : 1972930.6/21

Left: 2190.263+/-0.274 χ^2/NDF : 3389516.6/44

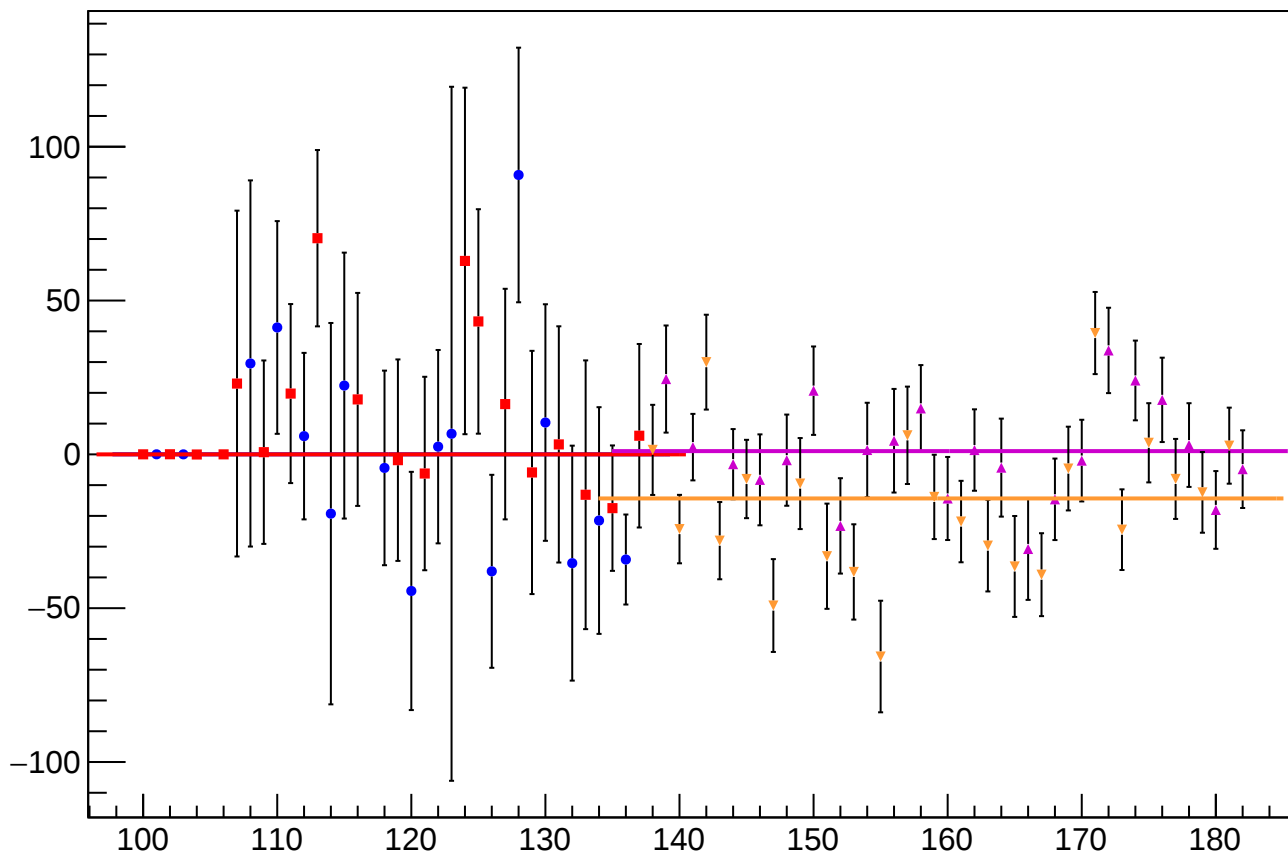
Right: 2244.647+/-0.552 χ^2/NDF : 10334729.3/35

In: 2199.432+/-0.348 χ^2/NDF : 7016950.4/38

Out: 2202.537+/-0.345 χ^2/NDF : 6715051.9/41

All: 2200.998+/-0.245 χ^2/NDF : 13732042.4/80

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -14.328 ± 2.900 $\chi^2/\text{NDF}: 58.5/22$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 15.5/18$

Left In: 1.058 ± 2.948 $\chi^2/\text{NDF}: 27.0/21$

Left: -6.762 ± 2.067 $\chi^2/\text{NDF}: 99.3/44$

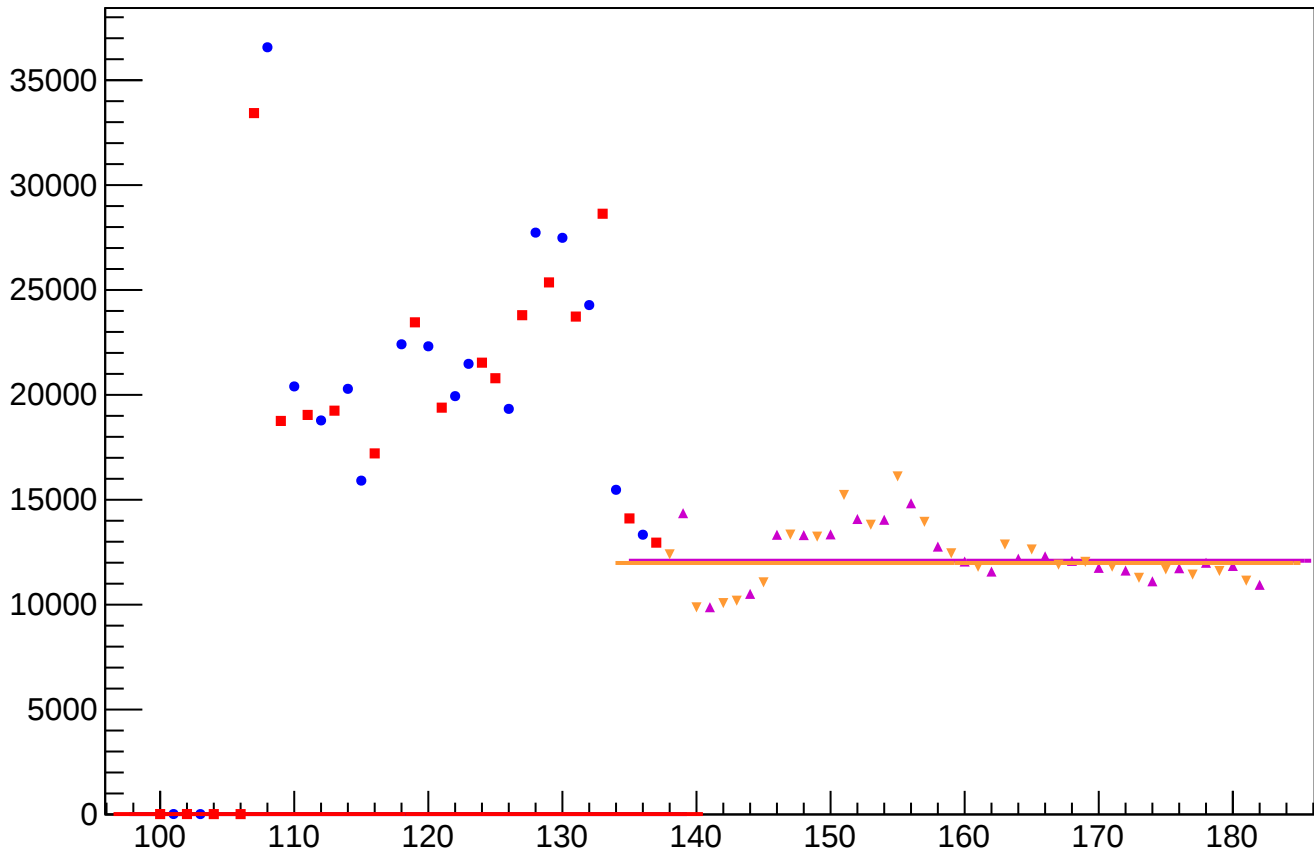
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.6/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 43.7/38$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 98.4/41$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 142.6/80$

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 11987.301+/-2.050 χ^2/NDF : 455228.9/22

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

Left In: 12093.849+/-2.085 χ^2/NDF : 359238.9/21

Left: 12039.694+/-1.462 χ^2/NDF : 815795.7/44

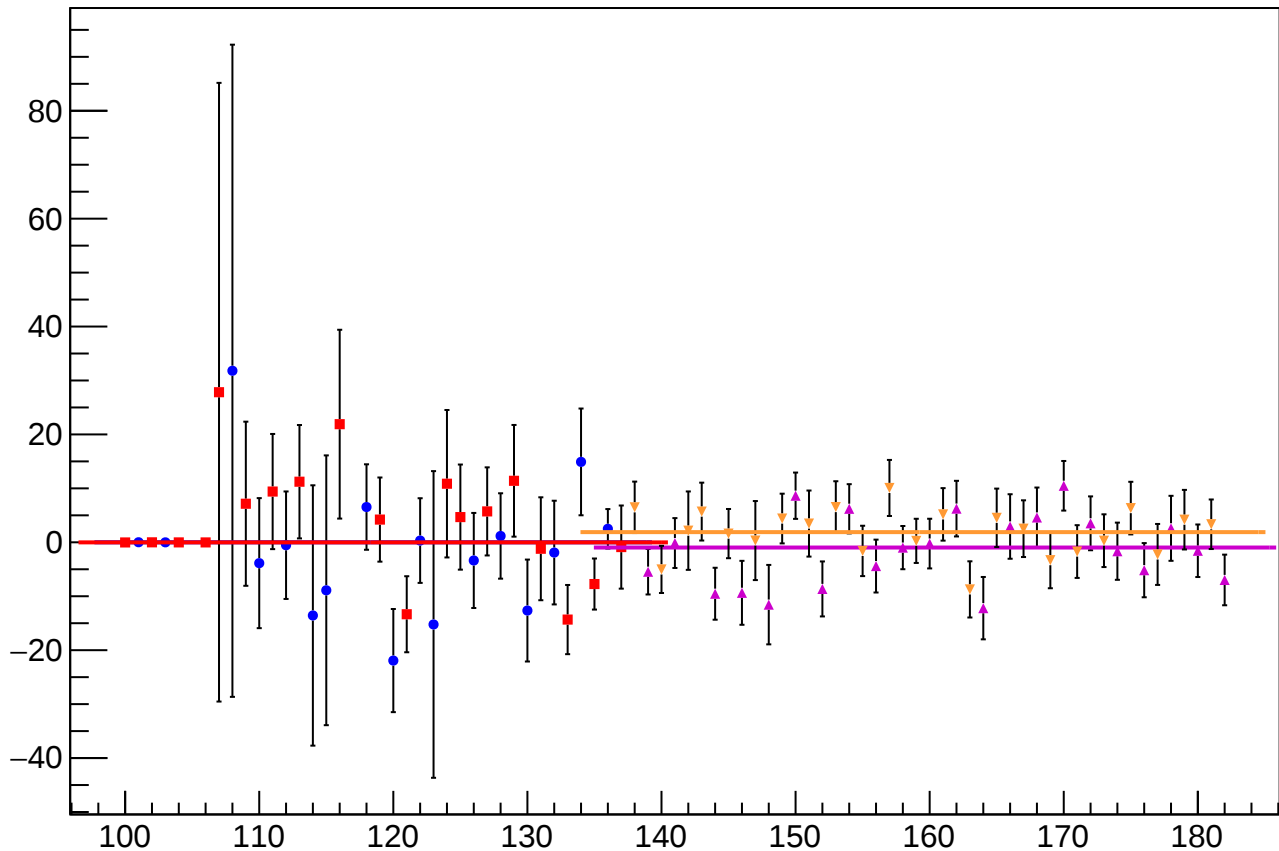
Right: 18.464+/-0.008 χ^2/NDF : 22005567.3/35

In: 19.059+/-0.012 χ^2/NDF : 44855417.1/38

Out: 18.679+/-0.011 χ^2/NDF : 45593973.2/41

All: 18.854+/-0.008 χ^2/NDF : 90449906.9/80

diff_cav4bY_mean vs Slug, Sign Corrected



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

Left Out: 1.887 $\pm$ 1.054 χ^2/NDF : 16.6/22

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

Left In: -0.969 $\pm$ 1.060 χ^2/NDF : 35.6/21

Left: 0.466 $\pm$ 0.747 χ^2/NDF : 55.9/44

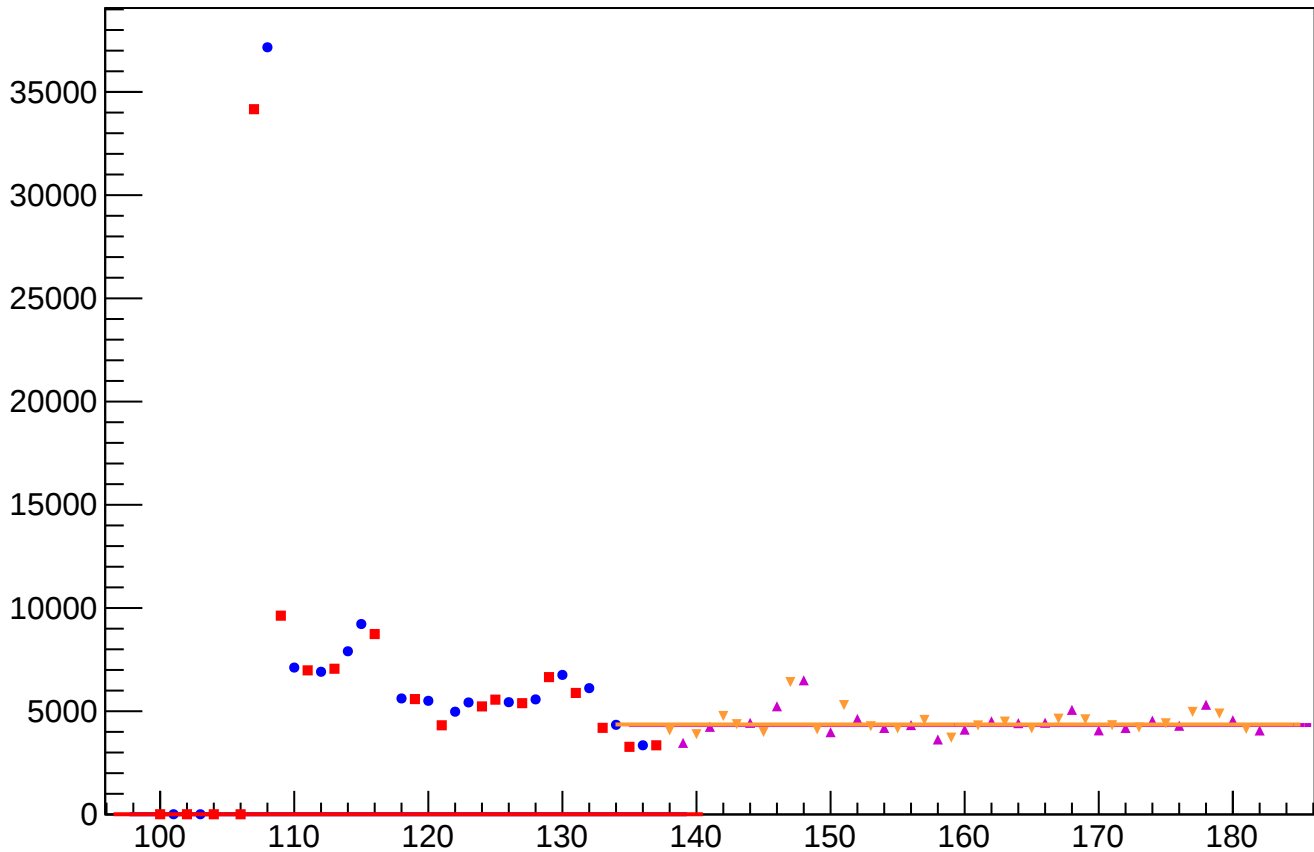
Right: -0.007 $\pm$ 0.006 χ^2/NDF : 33.0/35

In: 0.001 $\pm$ 0.009 χ^2/NDF : 49.3/38

Out: -0.014 $\pm$ 0.009 χ^2/NDF : 38.7/41

All: -0.007 $\pm$ 0.006 χ^2/NDF : 89.3/80

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4358.642 $\pm$ 0.745 χ^2 /NDF:378049.1/22

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

Left In: 4330.893 $\pm$ 0.749 χ^2 /NDF:507166.0/21

Left: 4344.840 $\pm$ 0.528 χ^2 /NDF: 885904.5/44

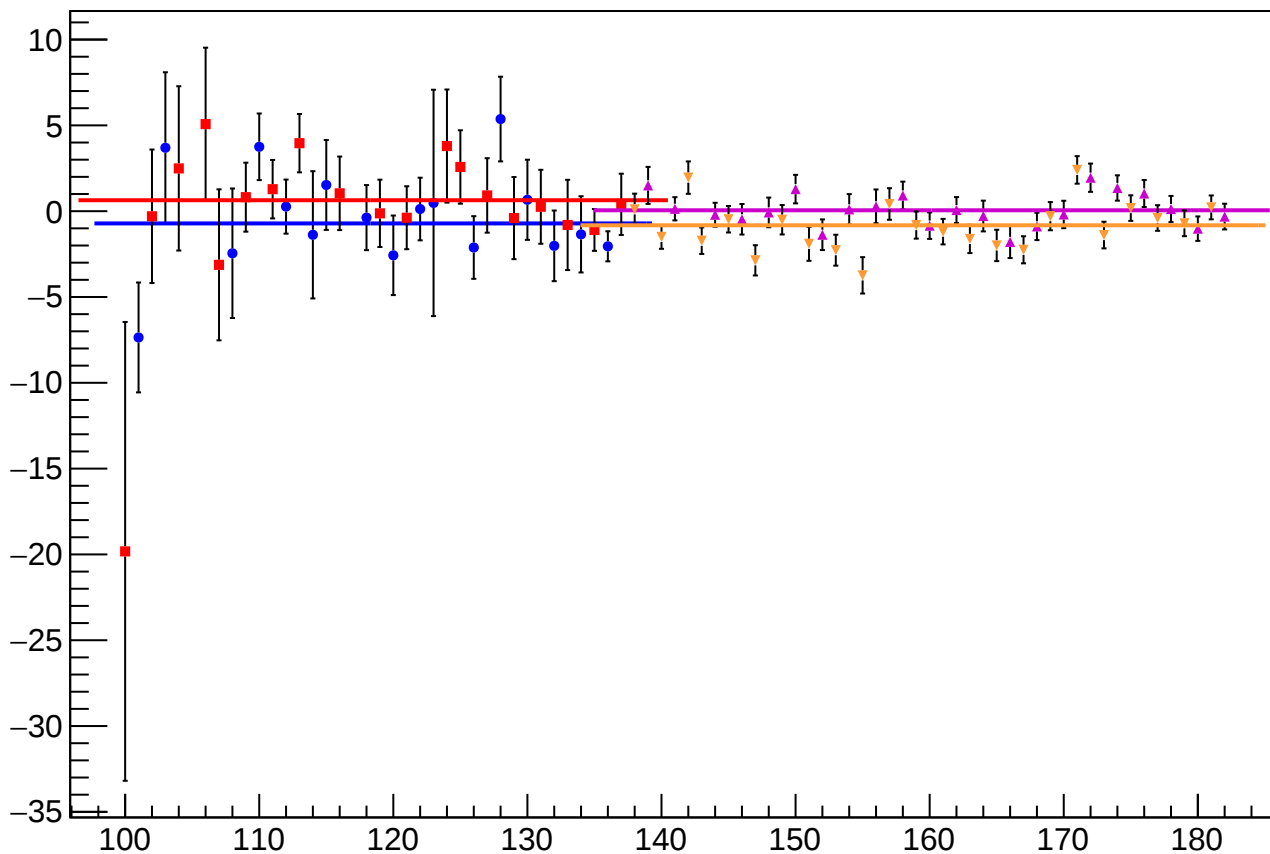
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22181108.5/35

In: 10.264 $\pm$ 0.007 χ^2 /NDF:44831207.2/38

Out: 10.147 $\pm$ 0.006 χ^2 /NDF:45532144.5/41

All: 10.202 $\pm$ 0.004 χ^2 /NDF: 90363525.2/80

diff_cav4cX_mean vs Slug, Sign Corrected



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

Left Out: -0.822 ± 0.170 χ^2/NDF : 58.5/22

Right Out: 0.638 ± 0.501 χ^2/NDF : 13.1/18

Left In: 0.052 ± 0.173 χ^2/NDF : 27.5/21

Left: -0.391 ± 0.121 χ^2/NDF : 99.1/44

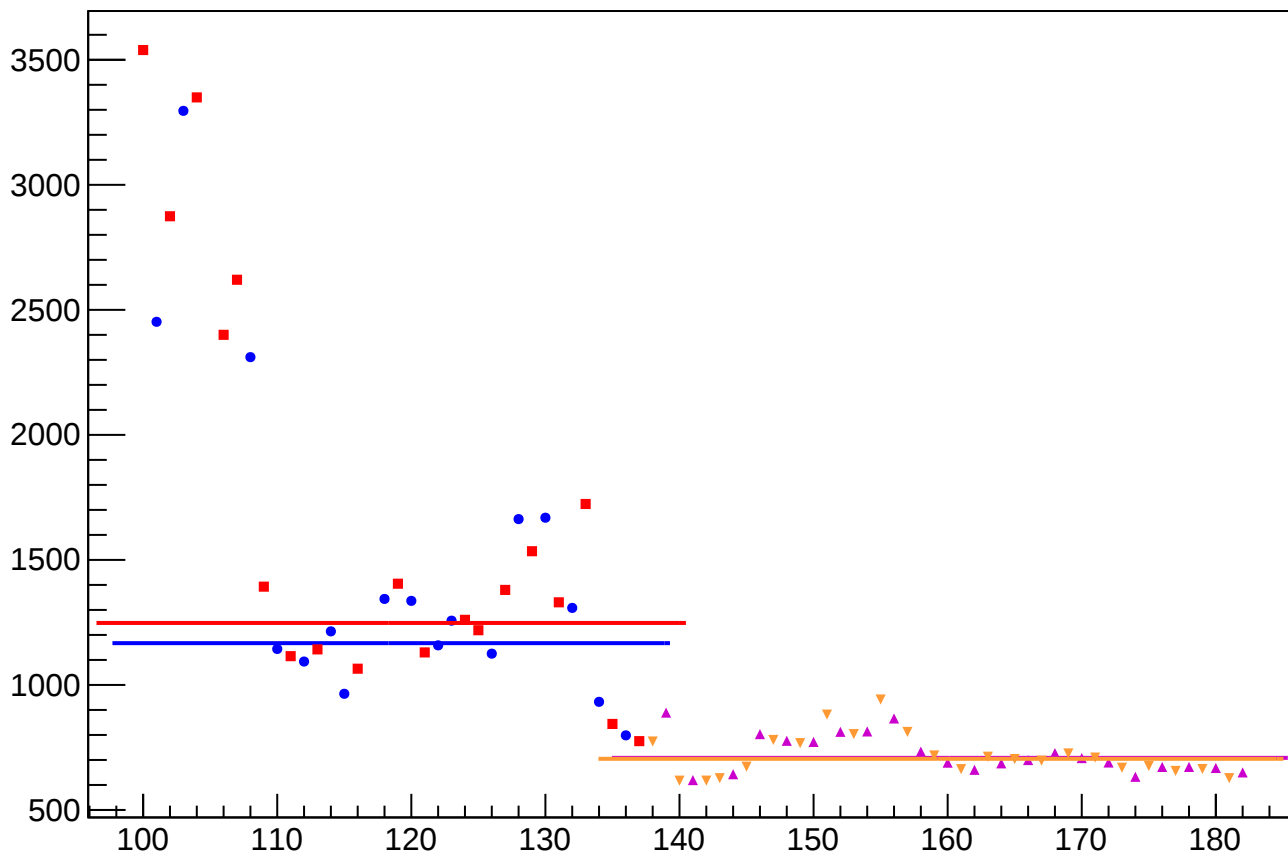
Right: -0.063 ± 0.348 χ^2/NDF : 39.5/35

In: -0.034 ± 0.162 χ^2/NDF : 52.5/38

Out: -0.672 ± 0.161 χ^2/NDF : 79.2/41

All: -0.356 ± 0.114 χ^2/NDF : 139.4/80

diff_cav4cX_rms vs Slug, Sign Corrected



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

Left Out: 704.598+/-0.120 χ^2/NDF : 378948.9/22

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

Left In: 708.407+/-0.122 χ^2/NDF : 325230.9/21

Left: 706.476+/-0.086 χ^2/NDF : 704673.8/44

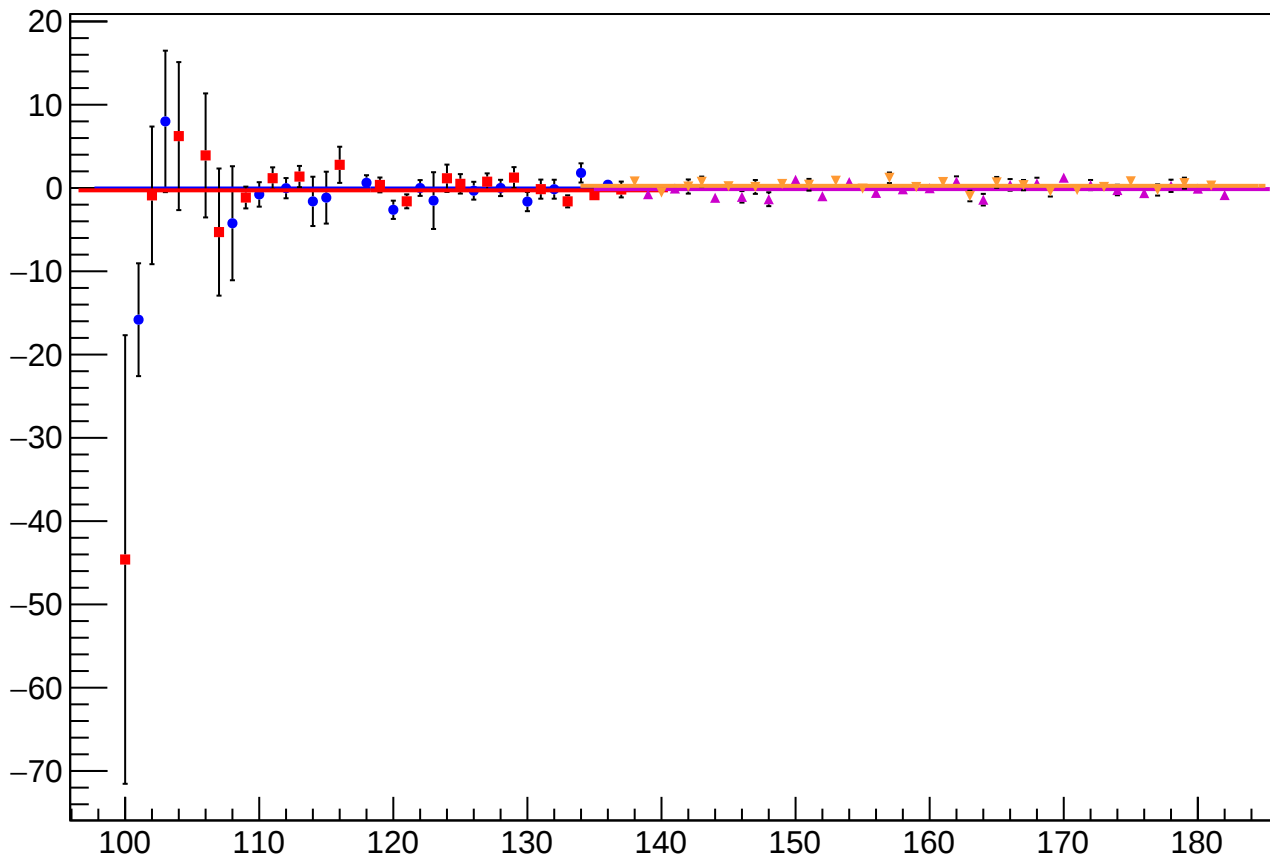
Right: 1206.012+/-0.246 χ^2/NDF : 3260466.3/35

In: 760.302+/-0.115 χ^2/NDF : 3504486.5/38

Out: 760.713+/-0.114 χ^2/NDF : 4137443.4/41

All: 760.509+/-0.081 χ^2/NDF : 7641936.4/80

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.262 ± 0.126 χ^2/NDF : 16.2/22

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

Left In: -0.131 ± 0.127 χ^2/NDF : 34.9/21

Left: 0.067 ± 0.090 χ^2/NDF : 55.9/44

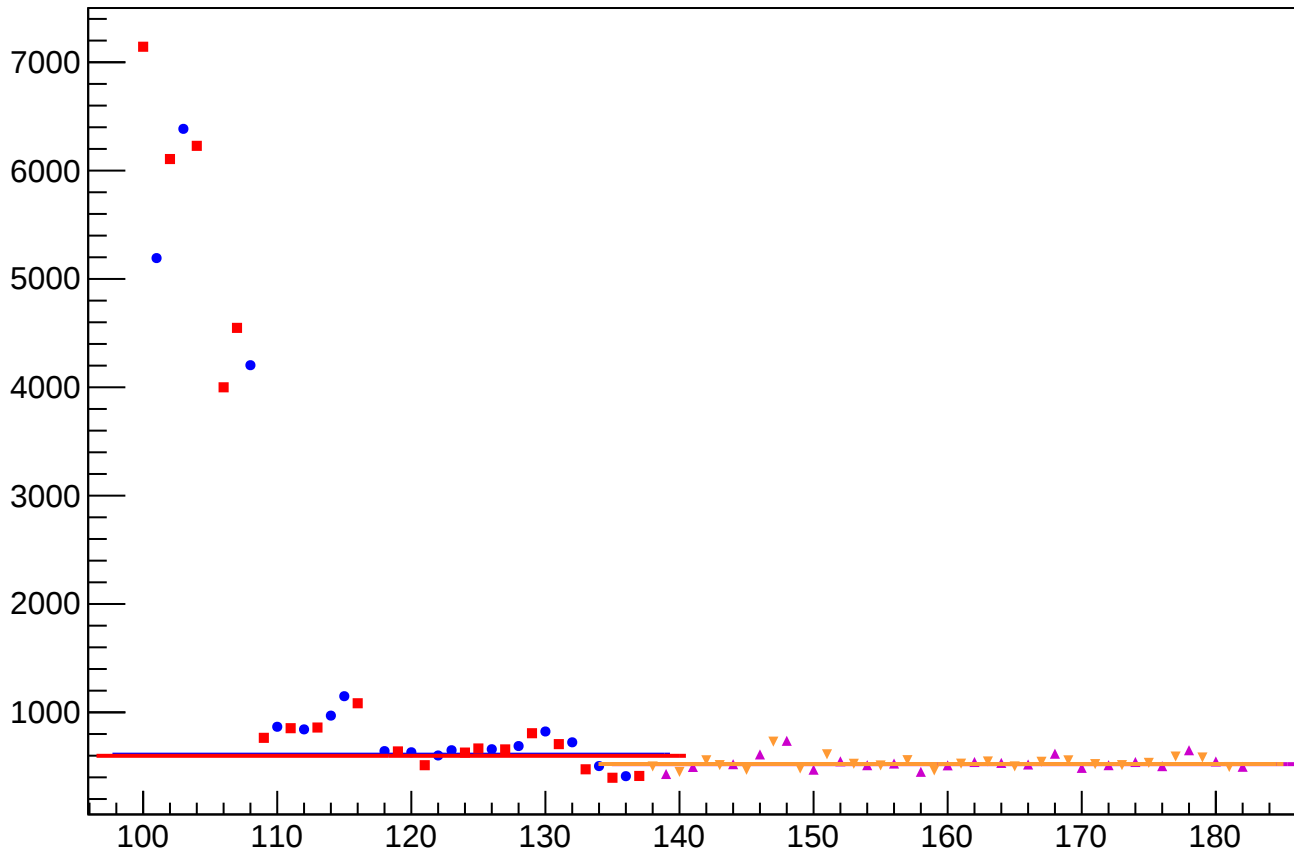
Right: -0.172 ± 0.189 χ^2/NDF : 40.0/35

In: -0.118 ± 0.115 χ^2/NDF : 54.0/38

Out: 0.161 ± 0.114 χ^2/NDF : 40.2/41

All: 0.023 ± 0.081 χ^2/NDF : 97.2/80

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 523.082 ± 0.089 χ^2/NDF : 326435.3/22

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

Left In: 521.766 ± 0.090 χ^2/NDF : 420927.8/21

Left: 522.429 ± 0.063 χ^2/NDF : 747470.7/44

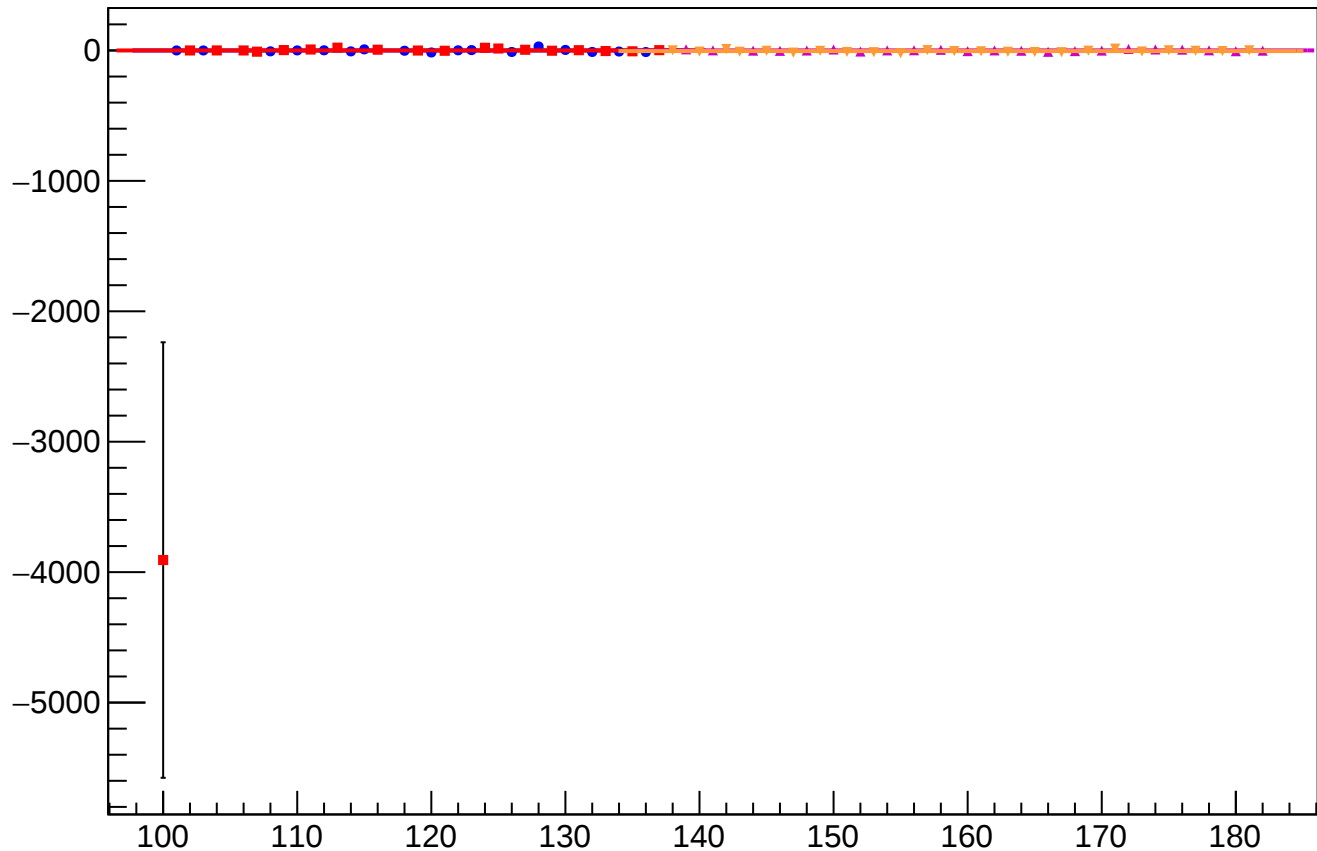
Right: 604.012 ± 0.133 χ^2/NDF : 6688123.9/35

In: 537.831 ± 0.081 χ^2/NDF : 3728533.4/38

Out: 537.164 ± 0.081 χ^2/NDF : 4012248.6/41

All: 537.494 ± 0.057 χ^2/NDF : 7740815.9/80

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -4.768 ± 0.991 χ^2/NDF : 58.3/22

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

Left In: 0.387 ± 1.005 χ^2/NDF : 27.5/21

Left: -2.227 ± 0.705 χ^2/NDF : 99.2/44

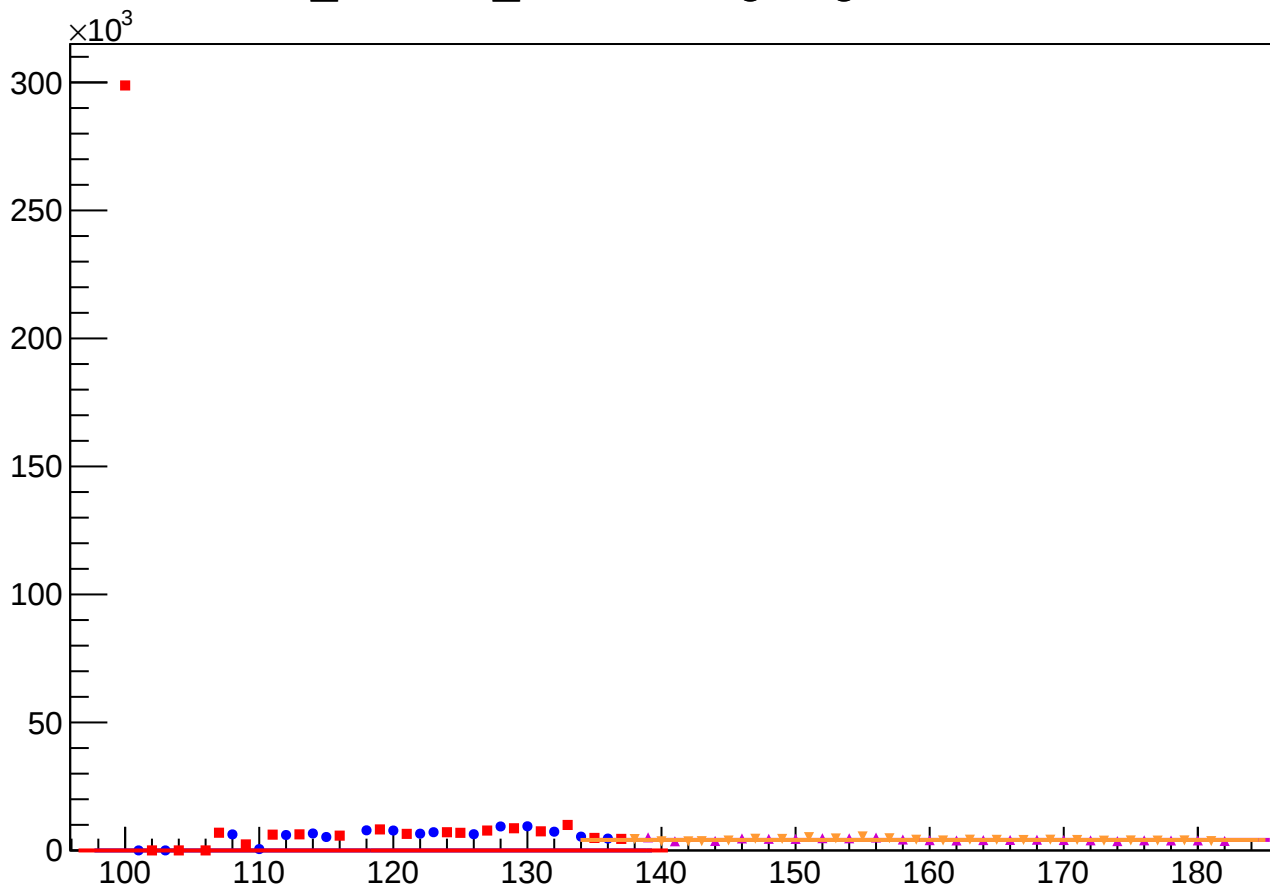
Right: 0.004 ± 0.014 χ^2/NDF : 36.3/35

In: -0.021 ± 0.021 χ^2/NDF : 43.7/38

Out: 0.025 ± 0.020 χ^2/NDF : 99.1/41

All: 0.003 ± 0.014 χ^2/NDF : 145.4/80

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4100.551+/-0.701 χ^2/NDF : 397874.0/22

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

Left In: 4124.011+/-0.710 χ^2/NDF : 339762.7/21

Left: 4112.117+/-0.499 χ^2/NDF : 738189.5/44

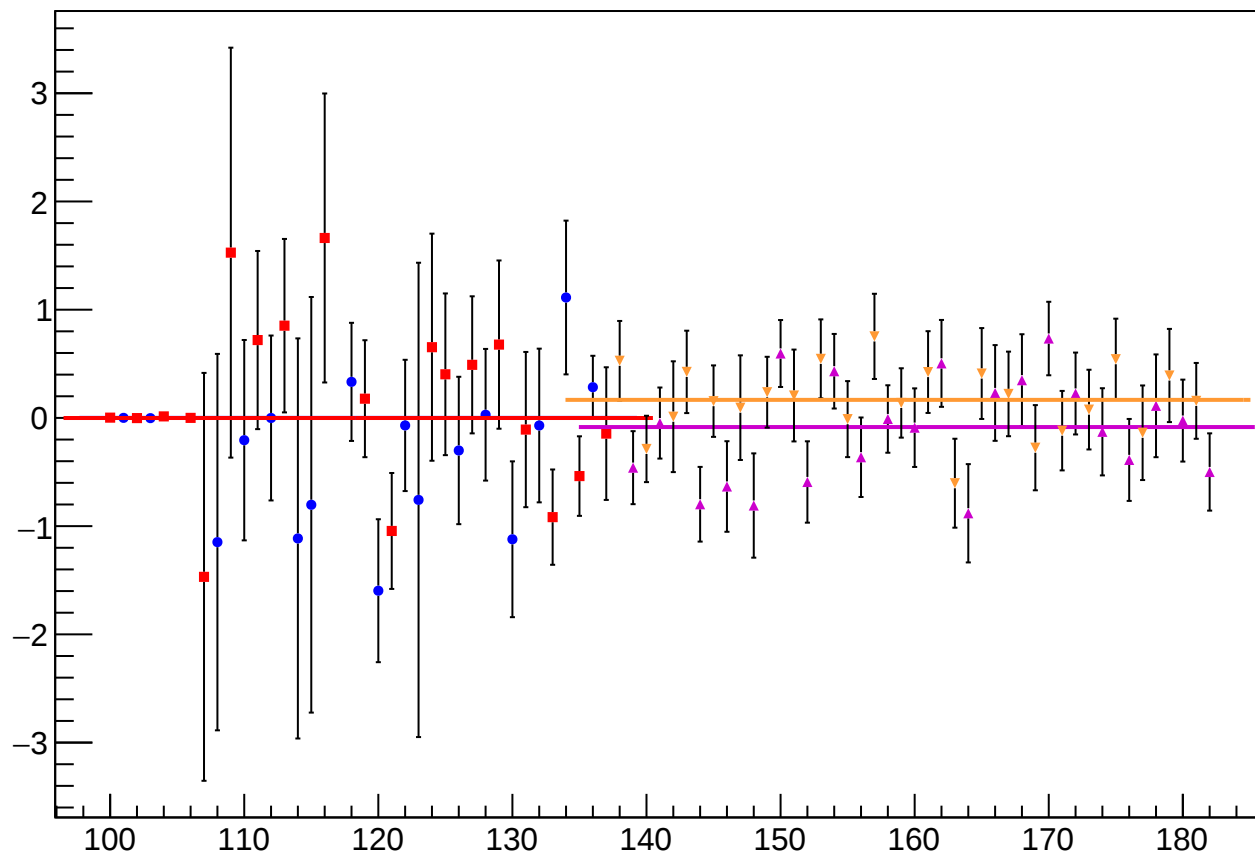
Right: 17.302+/-0.010 χ^2/NDF : 21231196.4/35

In: 19.097+/-0.015 χ^2/NDF : 44195192.7/38

Out: 18.894+/-0.014 χ^2/NDF : 45128571.2/41

All: 18.990+/-0.010 χ^2/NDF : 89323864.8/80

diff_cav4dY_mean vs Slug, Sign Corrected



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

Left Out: 0.167 ± 0.079 $\chi^2/\text{NDF}: 15.4/22$

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

Left In: -0.084 ± 0.080 $\chi^2/\text{NDF}: 34.5/21$

Left: 0.043 ± 0.056 $\chi^2/\text{NDF}: 54.9/44$

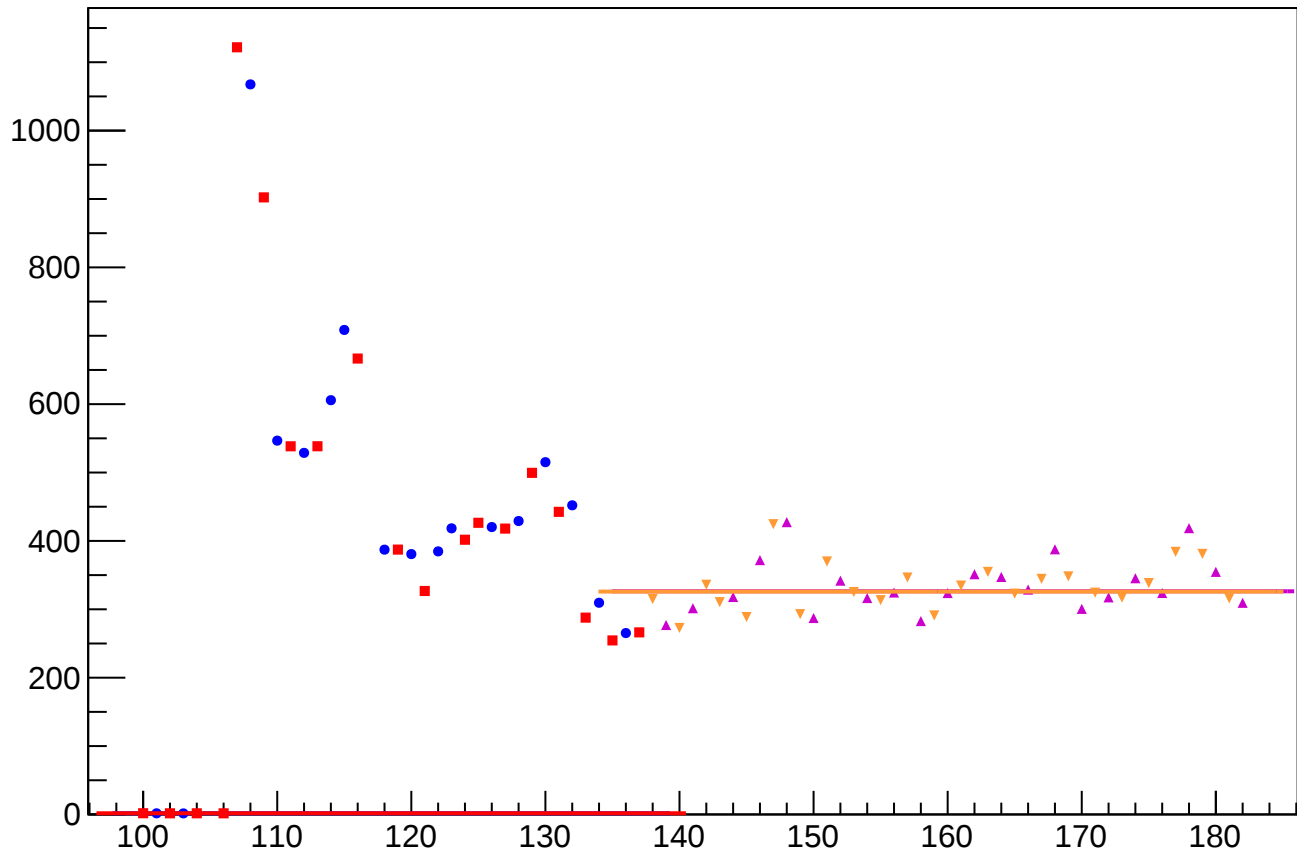
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 31.9/35$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 49.2/38$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 38.1/41$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 87.4/80$

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 325.934 ± 0.056 χ^2/NDF : 343084.6/22

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

Left In: 326.341 ± 0.056 χ^2/NDF : 405617.1/21

Left: 326.135 ± 0.040 χ^2/NDF : 748728.1/44

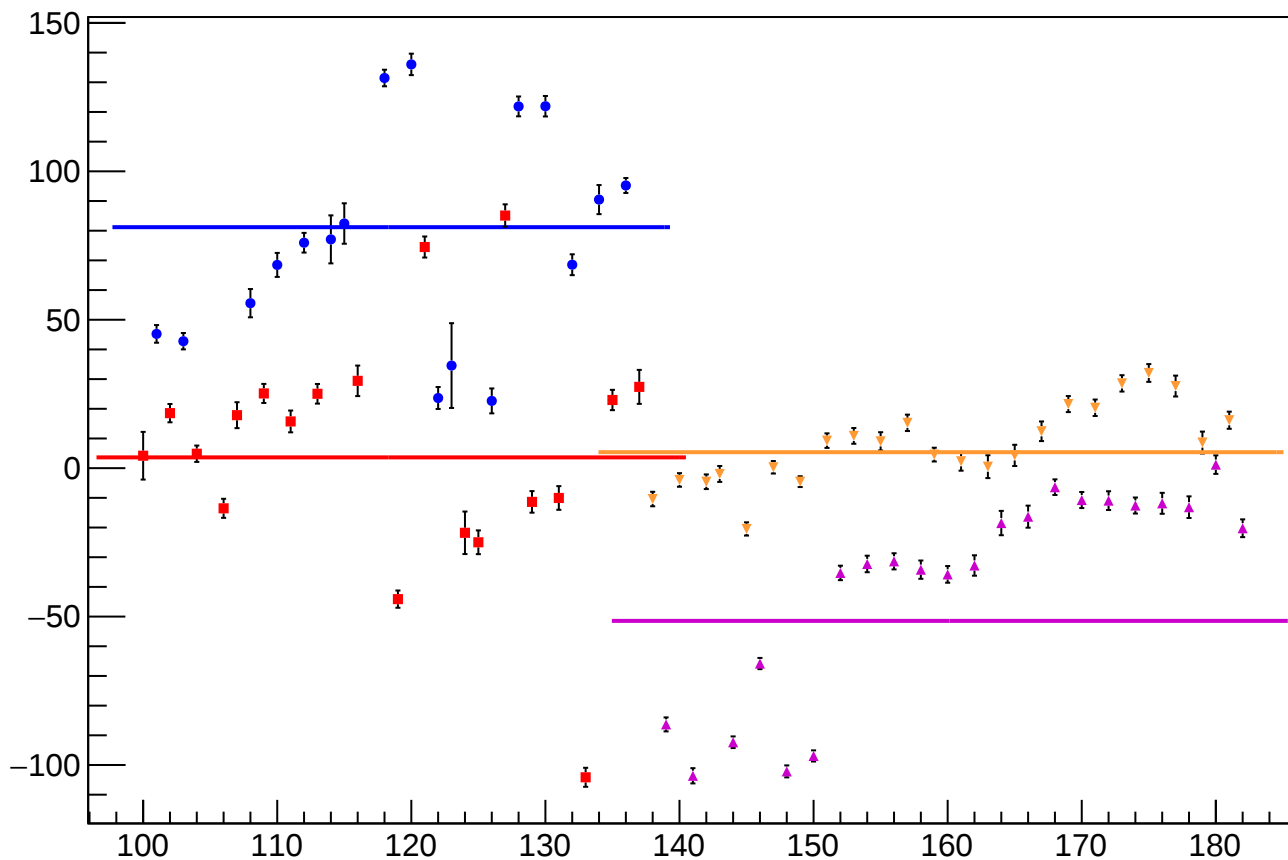
Right: 1.714 ± 0.001 χ^2/NDF : 21704428.1/35

In: 1.909 ± 0.001 χ^2/NDF : 44584830.2/38

Out: 1.925 ± 0.001 χ^2/NDF : 44909613.9/41

All: 1.917 ± 0.001 χ^2/NDF : 89494509.5/80

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 5.380 ± 0.555 $\chi^2/\text{NDF}: 550.0/22$

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

Left In: -51.449 ± 0.562 $\chi^2/\text{NDF}: 4253.7/21$

Left: -22.719 ± 0.395 $\chi^2/\text{NDF}: 9980.5/44$

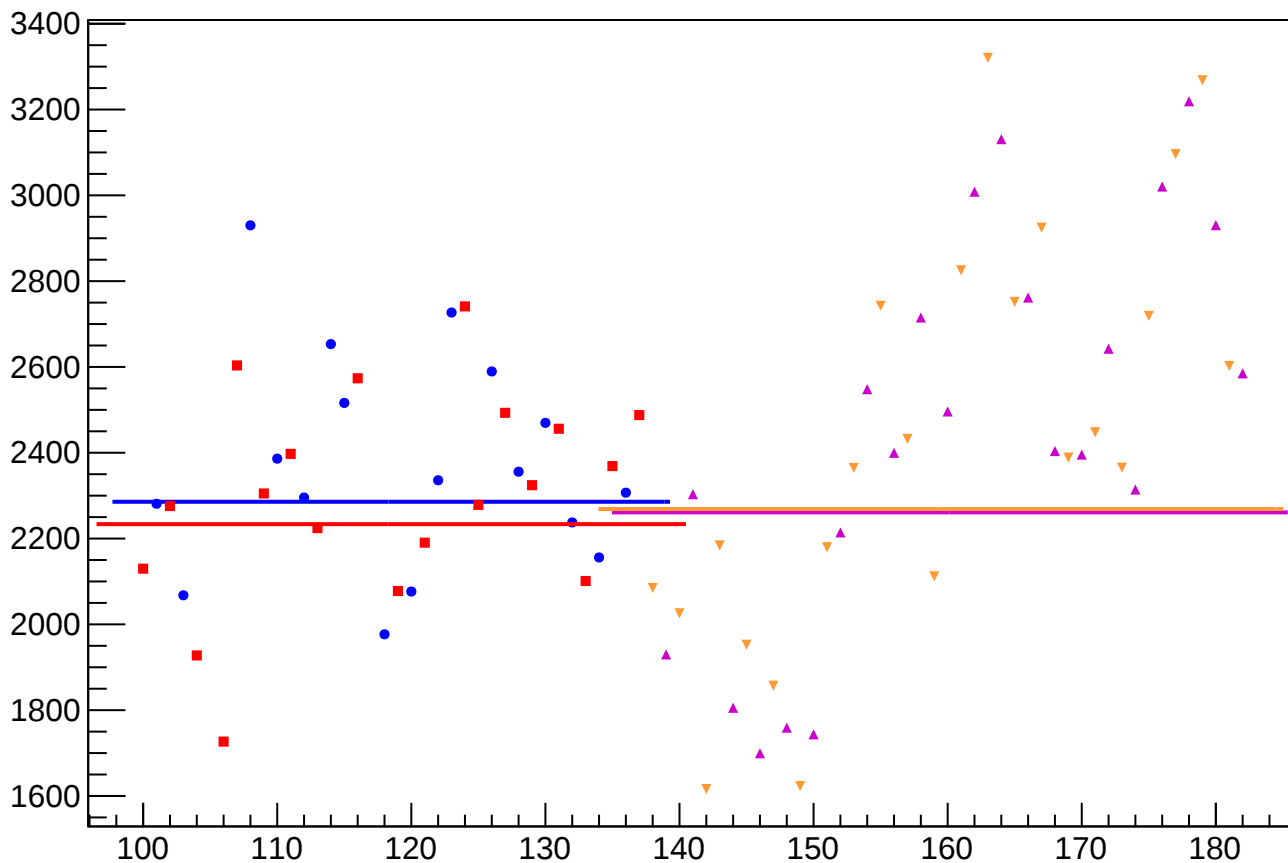
Right: 40.474 ± 0.611 $\chi^2/\text{NDF}: 8322.9/35$

In: -13.507 ± 0.475 $\chi^2/\text{NDF}: 21928.9/38$

Out: 4.852 ± 0.464 $\chi^2/\text{NDF}: 3146.1/41$

All: -4.121 ± 0.332 $\chi^2/\text{NDF}: 25840.3/80$

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2268.795 $\pm$ 0.393 χ^2/NDF : 1283693.5/22

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

Left In: 2261.063 $\pm$ 0.397 χ^2/NDF : 1293256.5/21

Left: 2264.972 $\pm$ 0.279 χ^2/NDF : 2577141.6/44

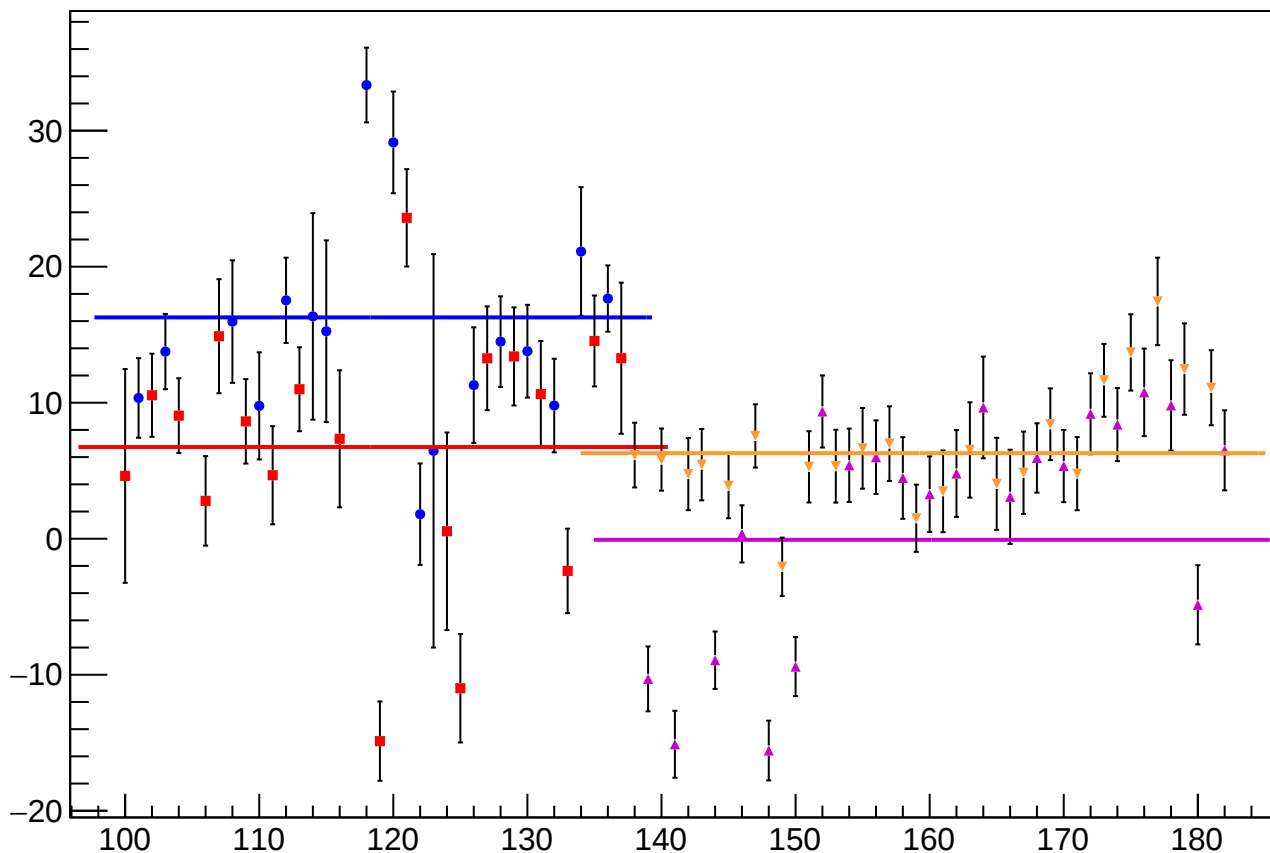
Right: 2258.379 $\pm$ 0.432 χ^2/NDF : 259845.0/35

In: 2268.127 $\pm$ 0.336 χ^2/NDF : 1403521.8/38

Out: 2258.161 $\pm$ 0.328 χ^2/NDF : 1433177.9/41

All: 2263.032 $\pm$ 0.235 χ^2/NDF : 2837150.7/80

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

Left Out: 6.292 $\pm$ 0.561 χ^2 /NDF: 53.0/22

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

Left In: -0.079 $\pm$ 0.569 χ^2 /NDF: 234.3/21

Left: 3.154 $\pm$ 0.399 χ^2 /NDF: 351.0/44

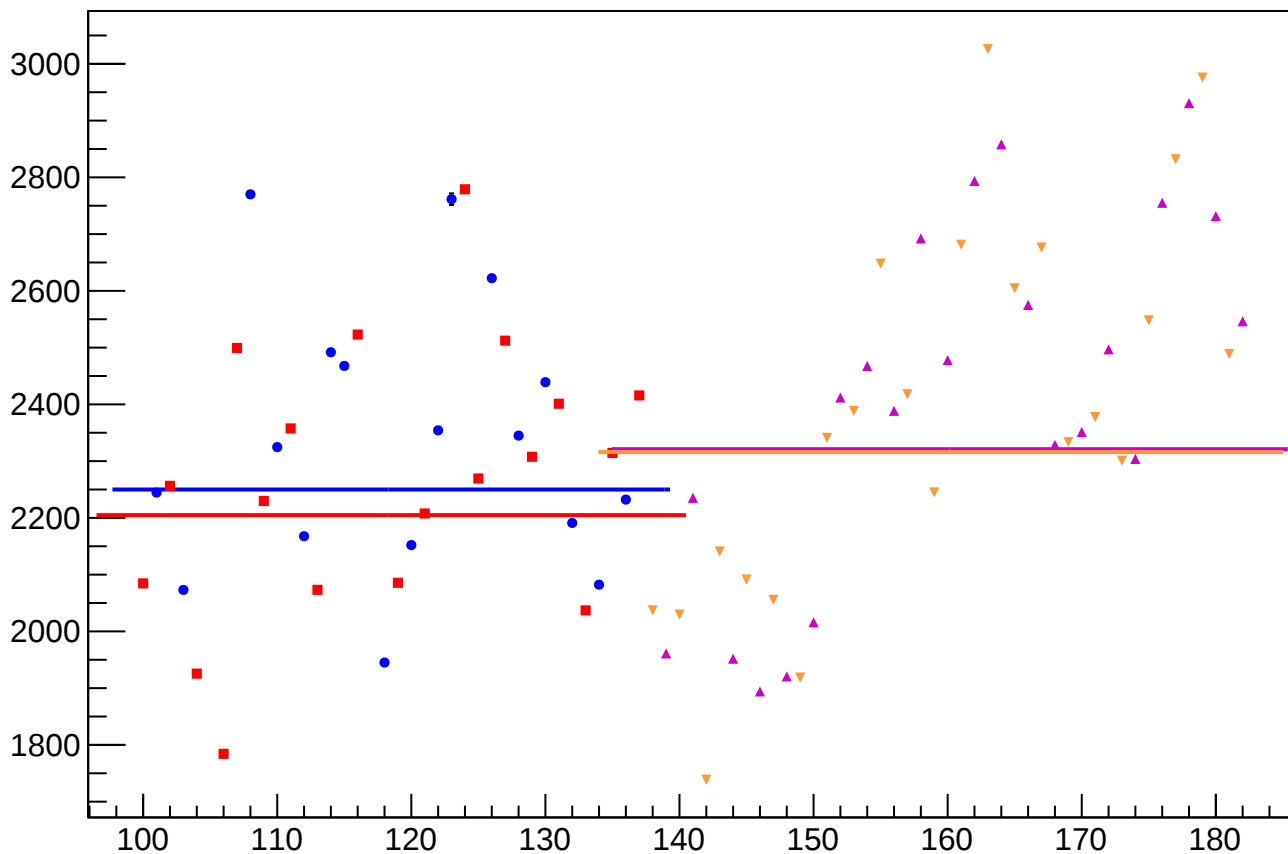
Right: 11.281 $\pm$ 0.602 χ^2 /NDF: 273.9/35

In: 4.796 $\pm$ 0.477 χ^2 /NDF: 561.6/38

Out: 6.434 $\pm$ 0.465 χ^2 /NDF: 183.8/41

All: 5.635 $\pm$ 0.333 χ^2 /NDF: 751.4/80

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2249.997 ± 0.617 $\chi^2/\text{NDF}: 97501.6/16$

Left Out: 2315.974 ± 0.396 $\chi^2/\text{NDF}: 610716.6/22$

Right Out: 2204.860 ± 0.588 $\chi^2/\text{NDF}: 126433.4/18$

Left In: 2321.070 ± 0.402 $\chi^2/\text{NDF}: 602830.6/21$

Left: 2318.484 ± 0.282 $\chi^2/\text{NDF}: 1213628.6/44$

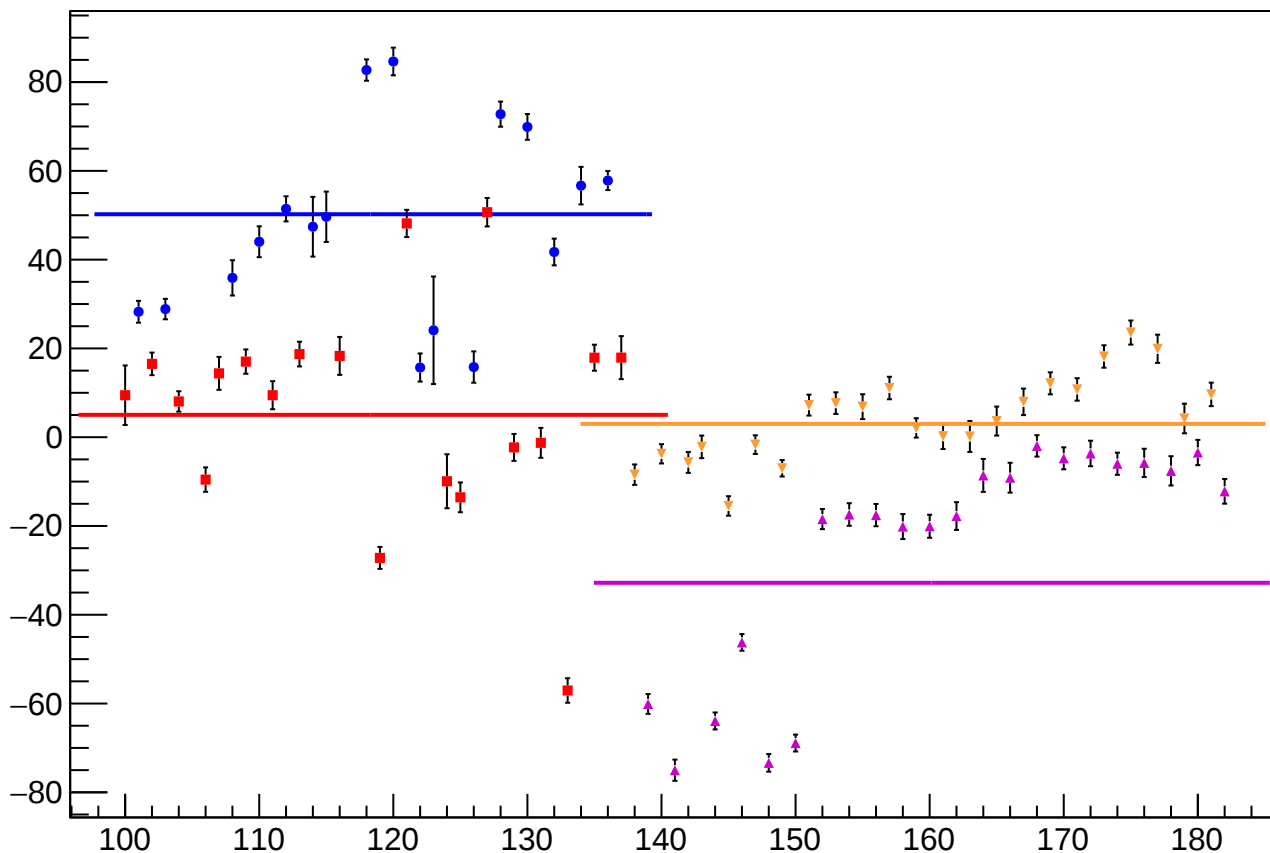
Right: 2226.349 ± 0.426 $\chi^2/\text{NDF}: 226736.2/35$

In: 2299.882 ± 0.337 $\chi^2/\text{NDF}: 709637.3/38$

Out: 2281.290 ± 0.329 $\chi^2/\text{NDF}: 761676.6/41$

All: 2290.355 ± 0.235 $\chi^2/\text{NDF}: 1472873.1/80$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: 3.002+/-0.523 χ^2/NDF :331.9/22

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

Left In: -32.797+/-0.529 χ^2/NDF :2631.7/21

Left: -14.686+/-0.372 χ^2/NDF : 5277.5/44

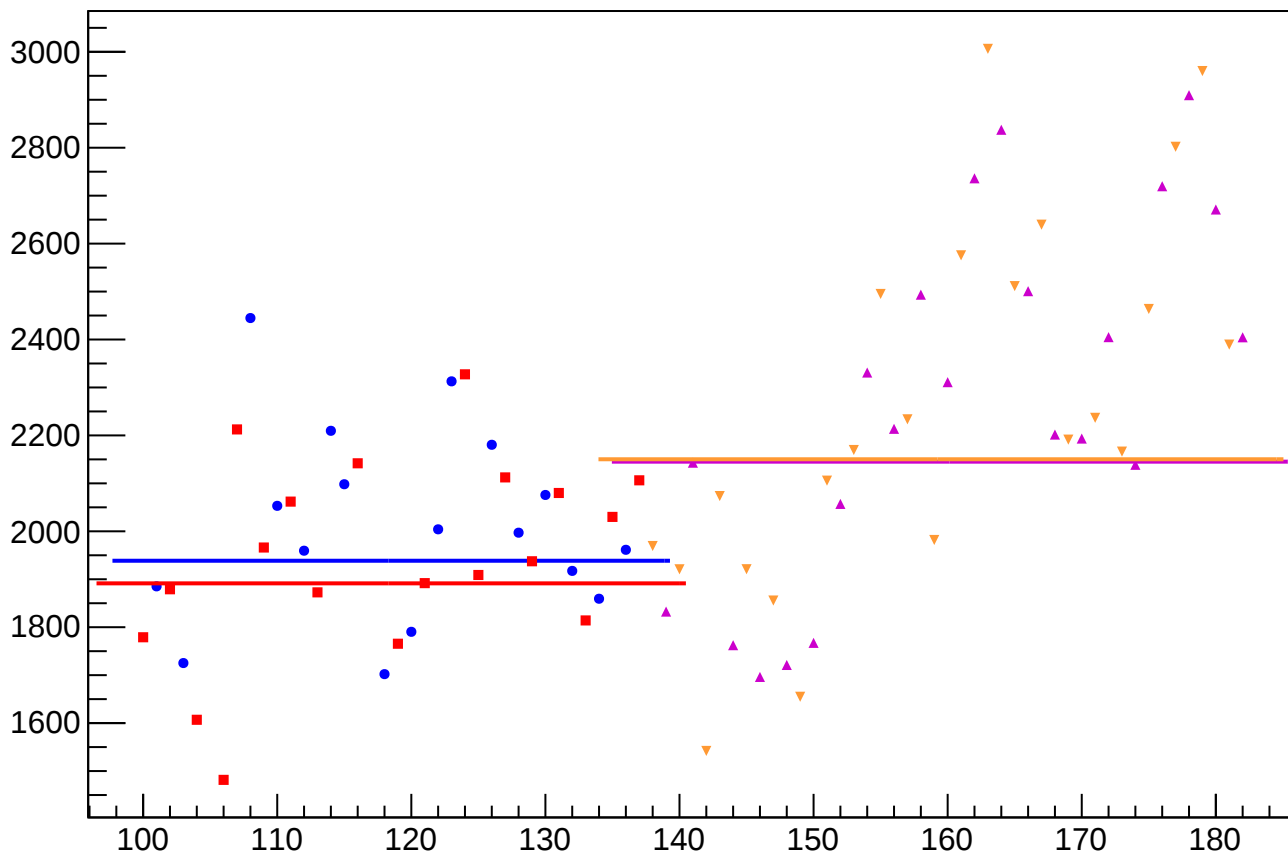
Right: 26.479+/-0.518 χ^2/NDF : 3994.7/35

In: -5.291+/-0.433 χ^2/NDF :11619.4/38

Out: 3.711+/-0.422 χ^2/NDF :1596.6/41

All: -0.676+/-0.302 χ^2/NDF : 13437.6/80

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2150.238 $\pm$ 0.370 χ^2 /NDF: 908781.4/22

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

Left In: 2145.254 $\pm$ 0.374 χ^2 /NDF: 897560.5/21

Left: 2147.776 $\pm$ 0.263 χ^2 /NDF: 1806431.6/44

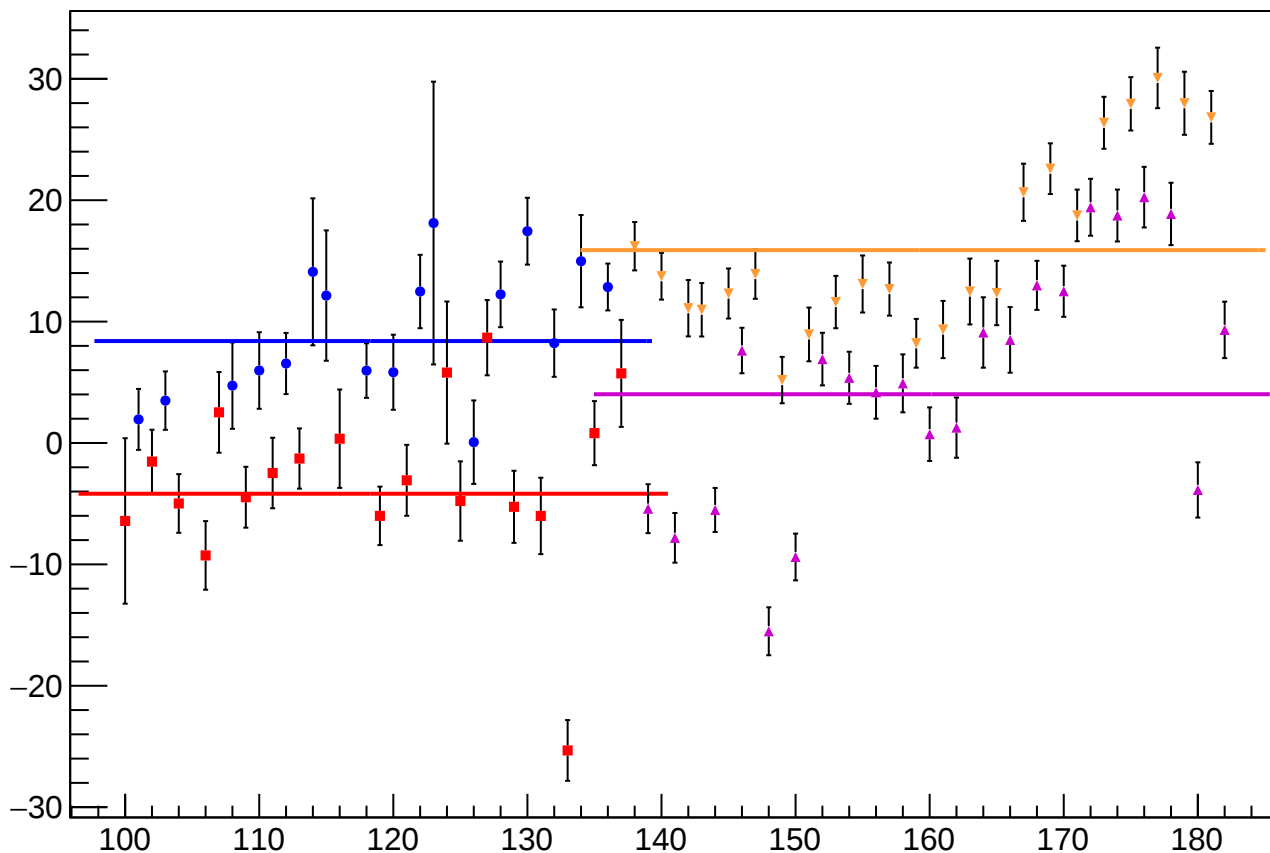
Right: 1913.832 $\pm$ 0.366 χ^2 /NDF: 250866.9/35

In: 2076.795 $\pm$ 0.306 χ^2 /NDF: 1098535.2/38

Out: 2059.947 $\pm$ 0.298 χ^2 /NDF: 1226279.3/41

All: 2068.159 $\pm$ 0.214 χ^2 /NDF: 2326367.5/80

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 15.888 ± 0.459 χ^2/NDF : 238.4/22

Right Out: -4.180 ± 0.684 χ^2/NDF : 112.9/18

Left In: 4.017 ± 0.466 χ^2/NDF : 463.9/21

Left: 10.048 ± 0.327 χ^2/NDF : 1031.8/44

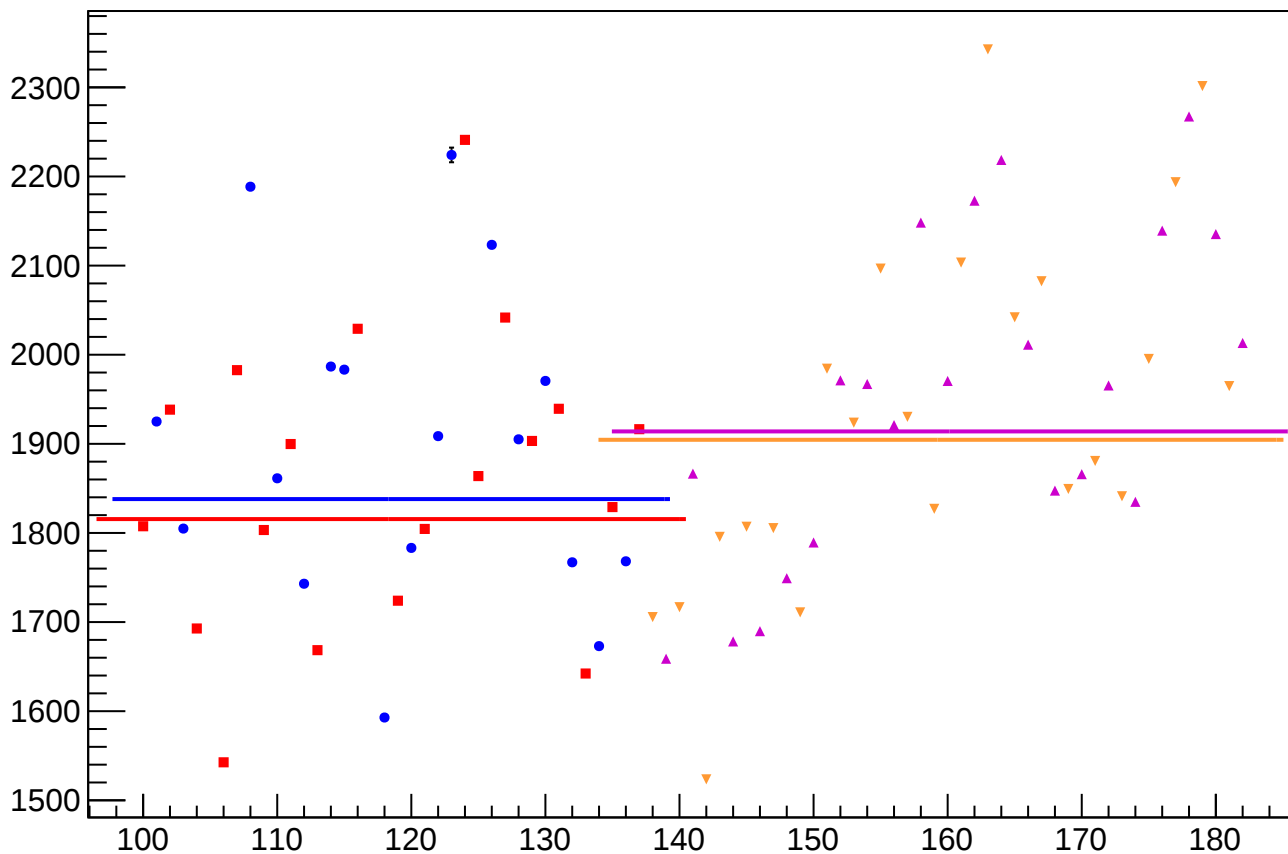
Right: 1.849 ± 0.493 χ^2/NDF : 320.9/35

In: 5.330 ± 0.390 χ^2/NDF : 536.1/38

Out: 9.657 ± 0.381 χ^2/NDF : 945.6/41

All: 7.545 ± 0.273 χ^2/NDF : 1544.7/80

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.009 +/- 0.504 χ^2/NDF : 82831.2/16

Left Out: 1904.534 +/- 0.324 χ^2/NDF : 311784.6/22

Right Out: 1815.562 +/- 0.483 χ^2/NDF : 87647.1/18

Left In: 1913.932 +/- 0.330 χ^2/NDF : 271093.4/21

Left: 1909.157 +/- 0.231 χ^2/NDF : 583291.0/44

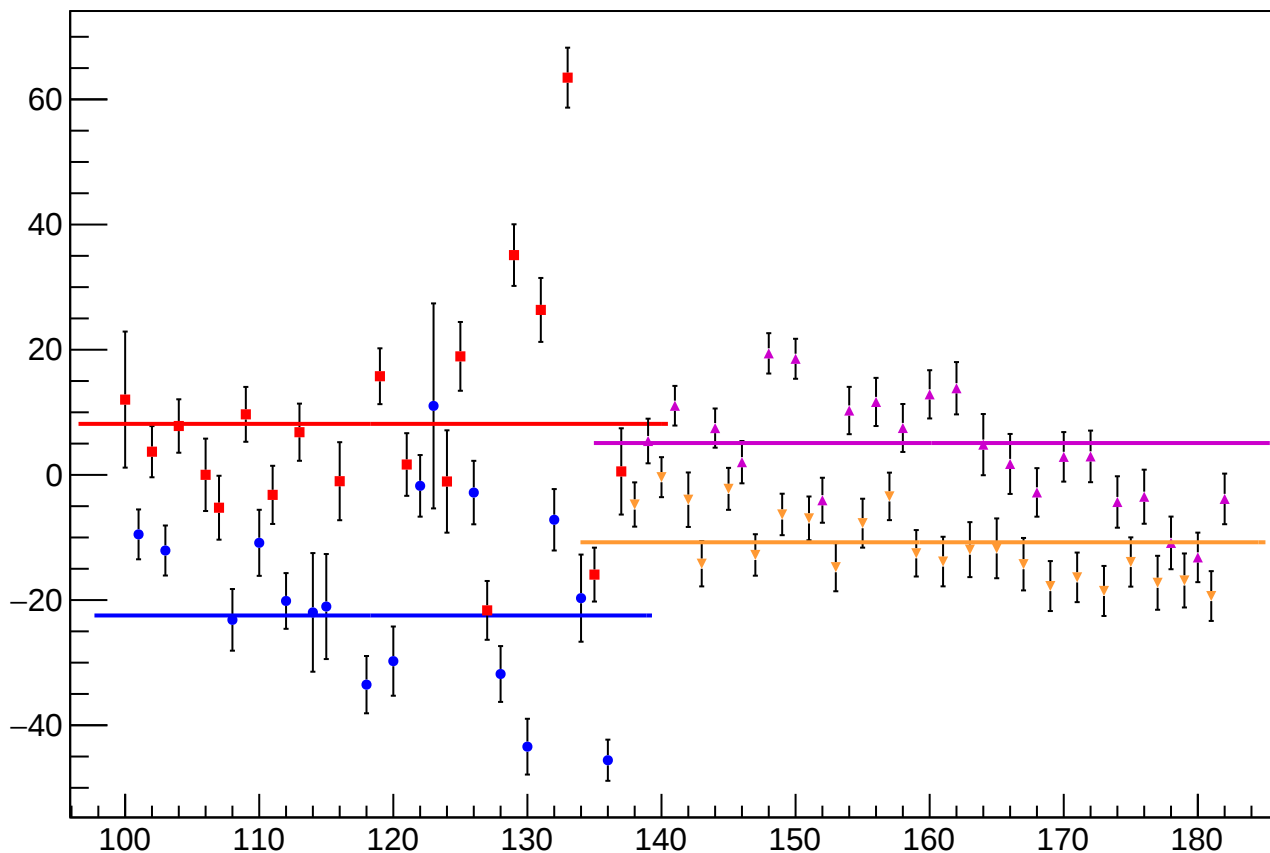
Right: 1826.322 +/- 0.349 χ^2/NDF : 171512.1/35

In: 1891.169 +/- 0.276 χ^2/NDF : 369829.2/38

Out: 1876.910 +/- 0.269 χ^2/NDF : 422792.7/41

All: 1883.870 +/- 0.193 χ^2/NDF : 793990.0/80

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

Left Out: -10.766+/-0.797 χ^2/NDF : 52.2/22

Right Out: 8.153+/-1.158 χ^2/NDF : 277.0/18

Left In: 5.090+/-0.806 χ^2/NDF : 117.6/21

Left: -2.931+/-0.567 χ^2/NDF : 365.4/44

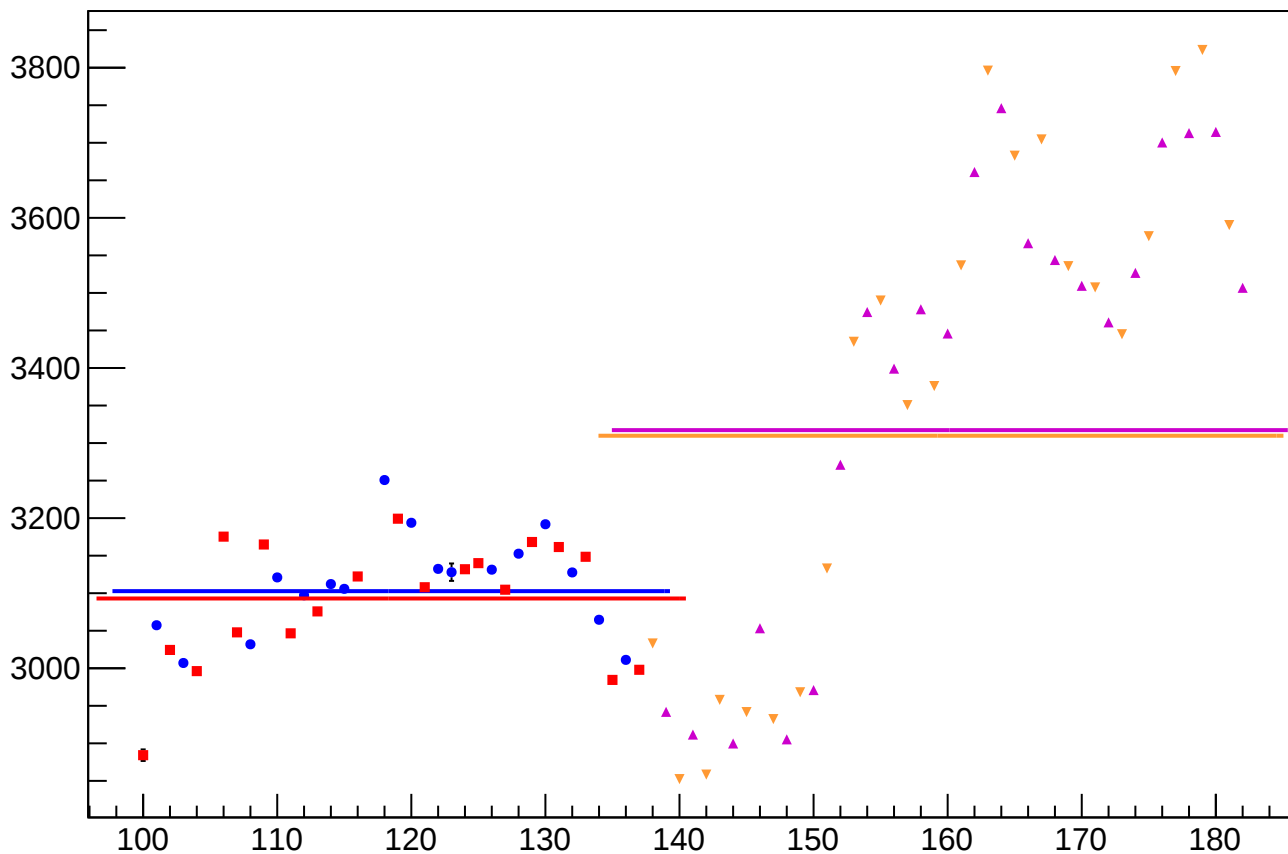
Right: -6.657+/-0.832 χ^2/NDF : 767.7/35

In: -3.510+/-0.669 χ^2/NDF : 635.0/38

Out: -4.691+/-0.656 χ^2/NDF : 510.2/41

All: -4.111+/-0.468 χ^2/NDF : 1146.8/80

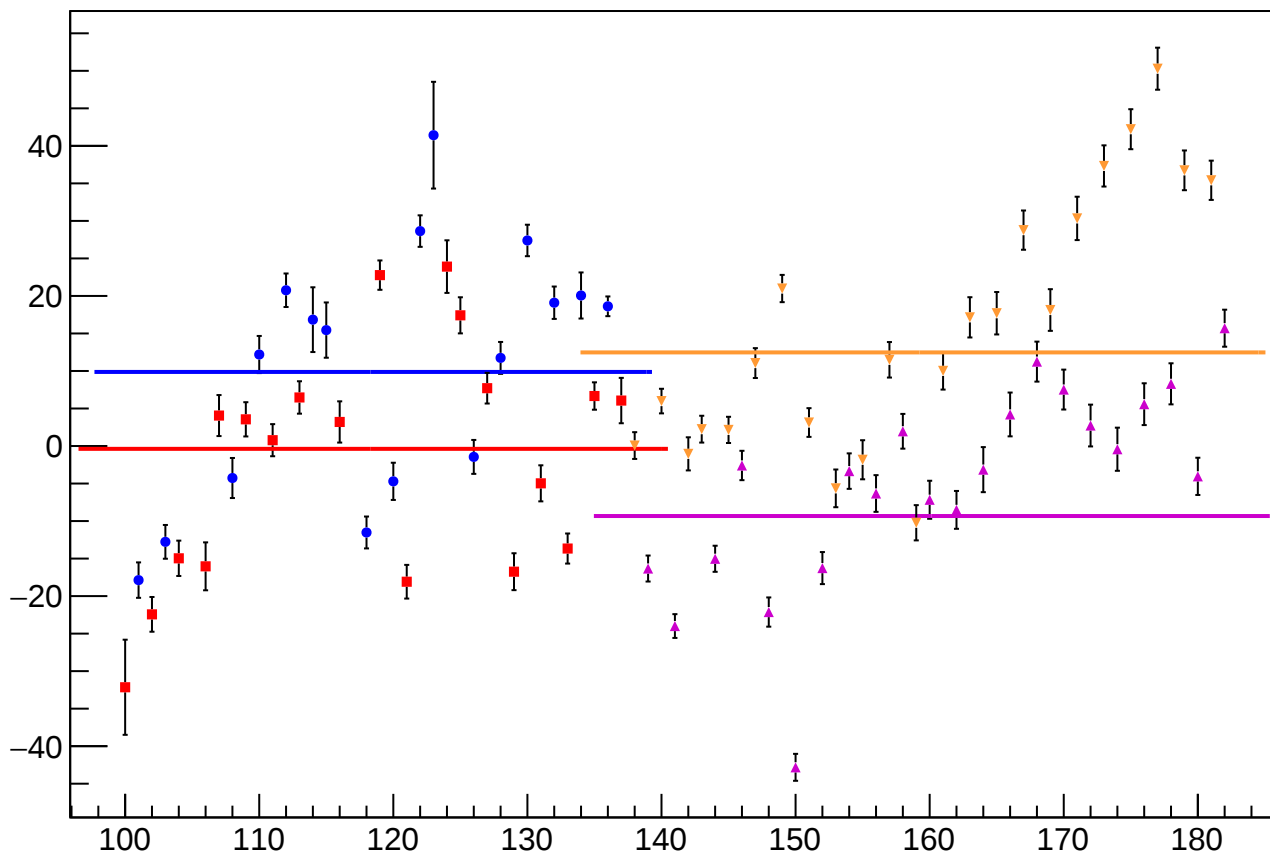
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.744 $\pm$ 0.846 χ^2 /NDF: 7337.7/16
 Left Out: 3309.765 $\pm$ 0.563 χ^2 /NDF:324750.5/22
 Right Out: 3092.954 $\pm$ 0.819 χ^2 /NDF: 7802.6/18
 Left In: 3317.236 $\pm$ 0.570 χ^2 /NDF:280776.4/21

Left: 3313.456 $\pm$ 0.401 χ^2 /NDF: 605613.8/44
 Right: 3097.690 $\pm$ 0.589 χ^2 /NDF: 15209.4/35
 In: 3250.286 $\pm$ 0.473 χ^2 /NDF:332304.3/38
 Out: 3240.146 $\pm$ 0.464 χ^2 /NDF:380109.5/41
 All: 3245.123 $\pm$ 0.331 χ^2 /NDF: 712648.0/80

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

Left Out: 12.475 ± 0.469 χ^2/NDF : 1029.5/22

Right Out: -0.377 ± 0.548 χ^2/NDF : 628.0/18

Left In: -9.329 ± 0.482 χ^2/NDF : 890.2/21

Left: 1.850 ± 0.336 χ^2/NDF : 2970.7/44

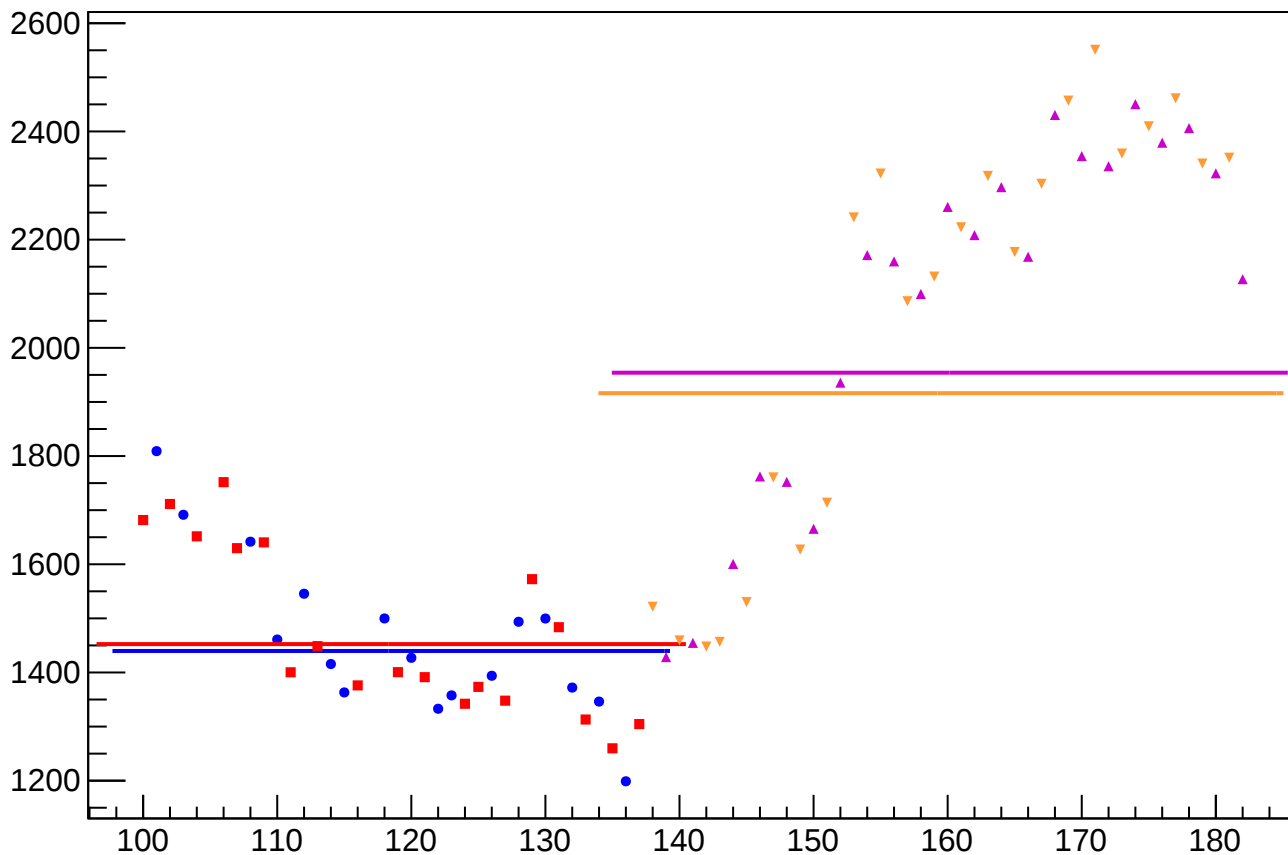
Right: 4.631 ± 0.392 χ^2/NDF : 1500.7/35

In: -1.173 ± 0.365 χ^2/NDF : 2267.1/38

Out: 7.032 ± 0.356 χ^2/NDF : 1974.8/41

All: 3.030 ± 0.255 χ^2/NDF : 4500.4/80

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.733 $\pm$ 0.396 χ^2 /NDF: 172867.1/16

Left Out: 1916.228 $\pm$ 0.332 χ^2 /NDF:1379158.1/22

Right Out: 1452.445 $\pm$ 0.387 χ^2 /NDF: 138400.9/18

Left In: 1954.082 $\pm$ 0.341 χ^2 /NDF:1044814.5/21

Left: 1934.673 $\pm$ 0.238 χ^2 /NDF: 2430308.0/44

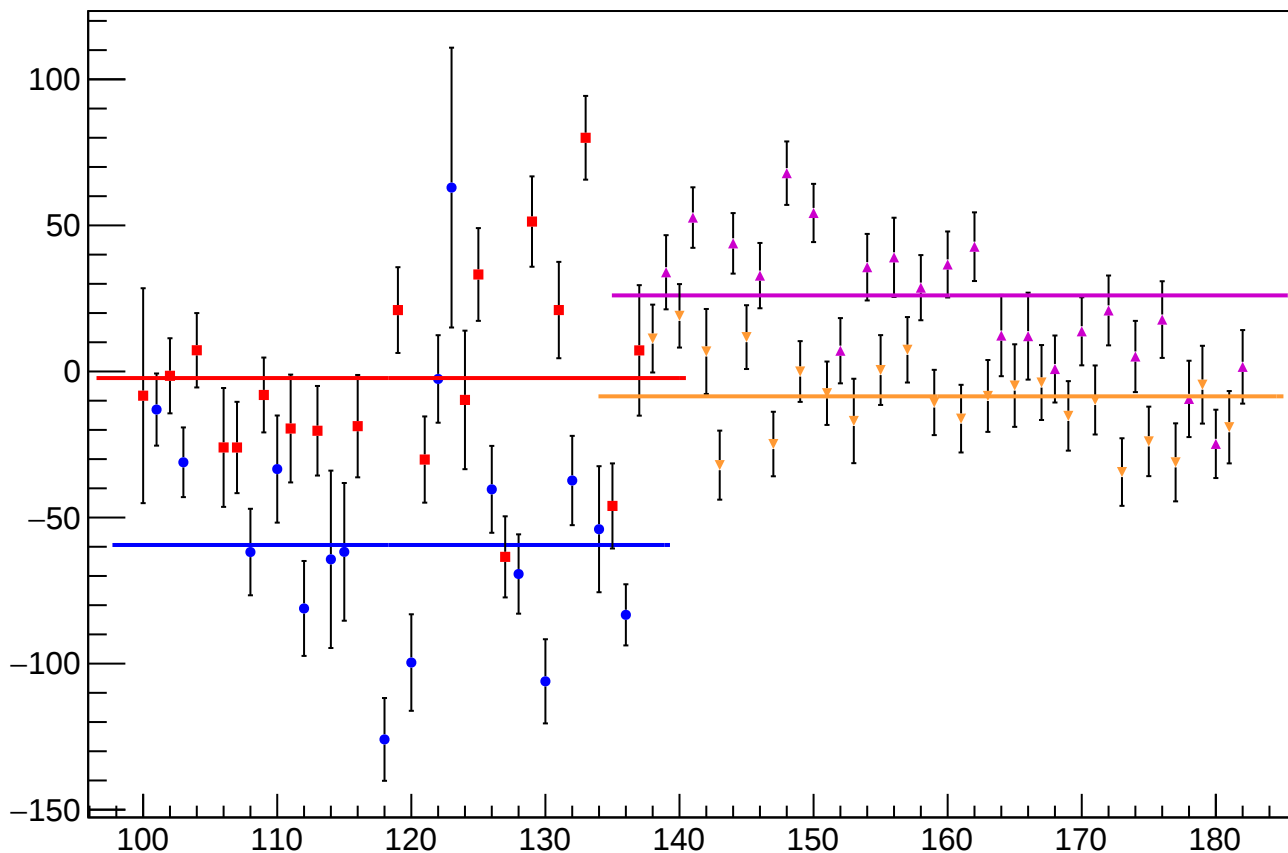
Right: 1446.234 $\pm$ 0.277 χ^2 /NDF: 311794.3/35

In: 1735.608 $\pm$ 0.258 χ^2 /NDF:2186687.7/38

Out: 1719.826 $\pm$ 0.252 χ^2 /NDF:2344069.5/41

All: 1727.525 $\pm$ 0.180 χ^2 /NDF: 4532669.6/80

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.392 ± 3.736 χ^2/NDF : 92.5/16

Left Out: -8.513 ± 2.488 χ^2/NDF : 35.0/22

Right Out: -2.255 ± 3.636 χ^2/NDF : 94.4/18

Left In: 26.040 ± 2.505 χ^2/NDF : 82.0/21

Left: 8.643 ± 1.765 χ^2/NDF : 212.8/44

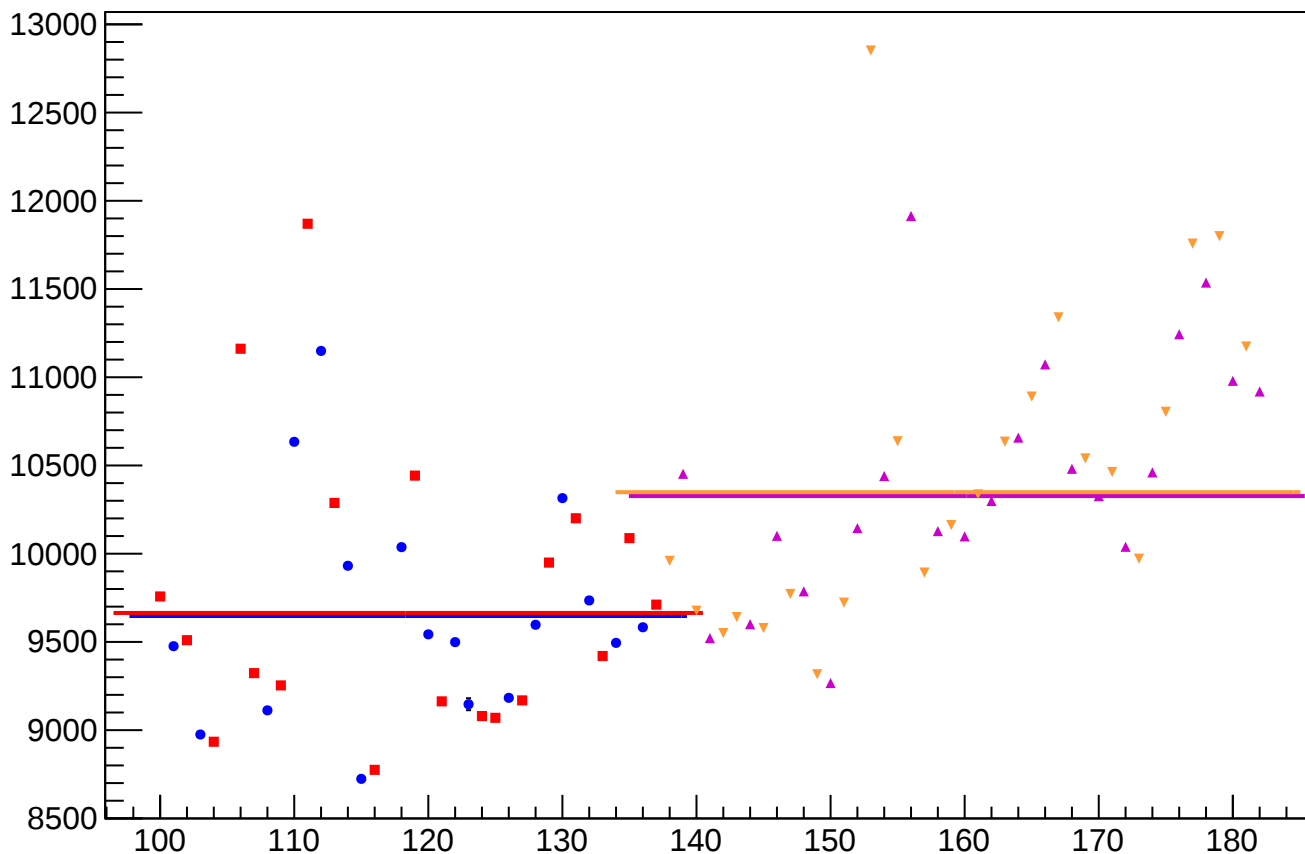
Right: -30.055 ± 2.606 χ^2/NDF : 307.0/35

In: -0.464 ± 2.081 χ^2/NDF : 535.3/38

Out: -6.518 ± 2.053 χ^2/NDF : 131.4/41

All: -3.531 ± 1.461 χ^2/NDF : 671.0/80

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

Left Out: 10348.703 ± 1.759 $\chi^2/\text{NDF}: 206516.0/22$

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

Left In: 10326.760 ± 1.771 $\chi^2/\text{NDF}: 125572.6/21$

Left: 10337.807 ± 1.248 $\chi^2/\text{NDF}: 332165.8/44$

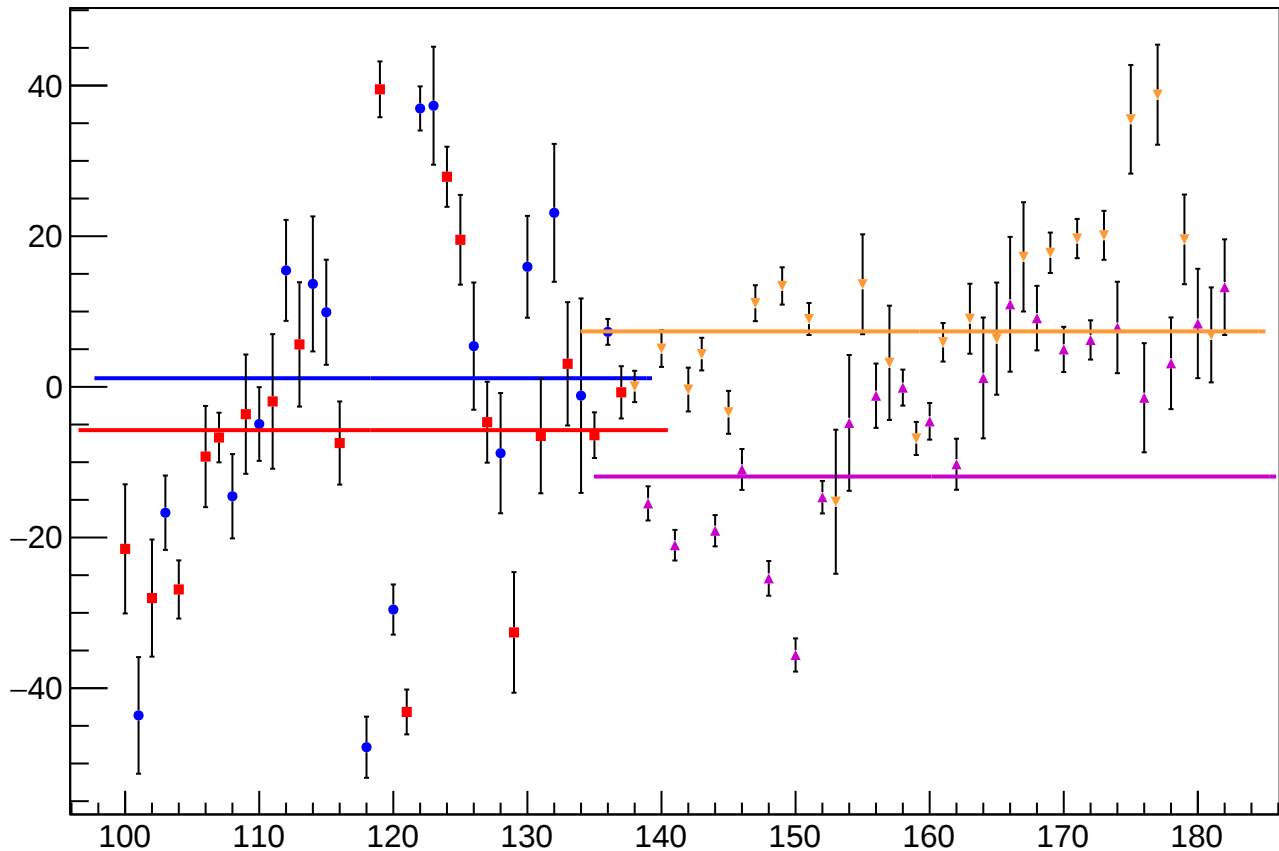
Right: 9655.788 ± 1.842 $\chi^2/\text{NDF}: 121345.6/35$

In: 10115.847 ± 1.471 $\chi^2/\text{NDF}: 215260.3/38$

Out: 10130.450 ± 1.452 $\chi^2/\text{NDF}: 332115.4/41$

All: 10123.246 ± 1.033 $\chi^2/\text{NDF}: 547425.6/80$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



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

Left Out: 7.363 $\pm$ 0.647 χ^2/NDF :191.2/22

Right Out: -5.747 $\pm$ 1.092 χ^2/NDF : 455.0/18

Left In: -11.905 $\pm$ 0.650 χ^2/NDF :382.7/21

Left: -2.234 $\pm$ 0.458 χ^2/NDF : 1015.5/44

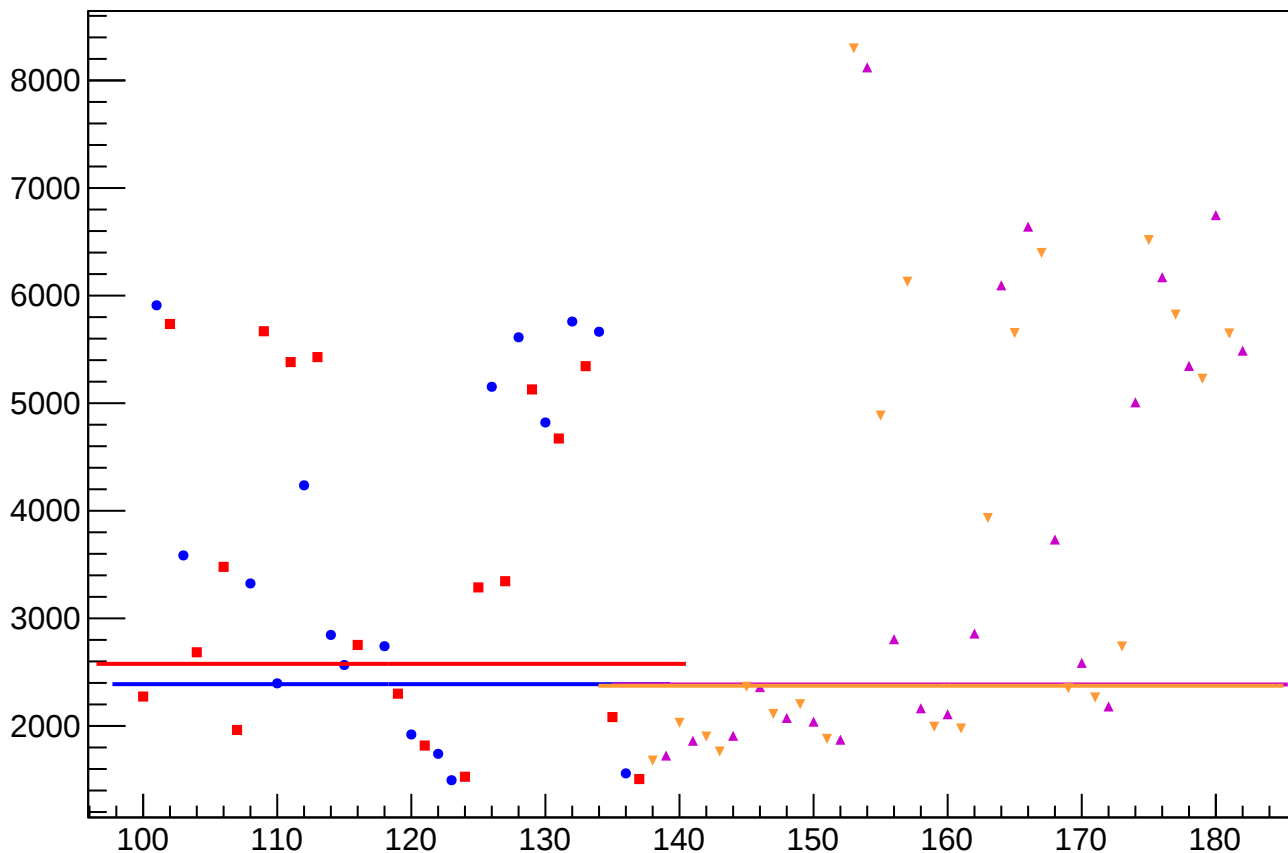
Right: -2.221 $\pm$ 0.763 χ^2/NDF : 966.1/35

In: -8.376 $\pm$ 0.555 χ^2/NDF :982.5/38

Out: 3.956 $\pm$ 0.557 χ^2/NDF :752.9/41

All: -2.231 $\pm$ 0.393 χ^2/NDF : 1981.5/80

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2388.532 $\pm$ 0.755 χ^2 /NDF: 2588689.4/16

Left Out: 2373.844 $\pm$ 0.458 χ^2 /NDF: 5727777.9/22

Right Out: 2577.351 $\pm$ 0.772 χ^2 /NDF: 2358780.3/18

Left In: 2385.567 $\pm$ 0.459 χ^2 /NDF: 5209041.5/21

Left: 2379.683 $\pm$ 0.324 χ^2 /NDF: 10937146.3/44

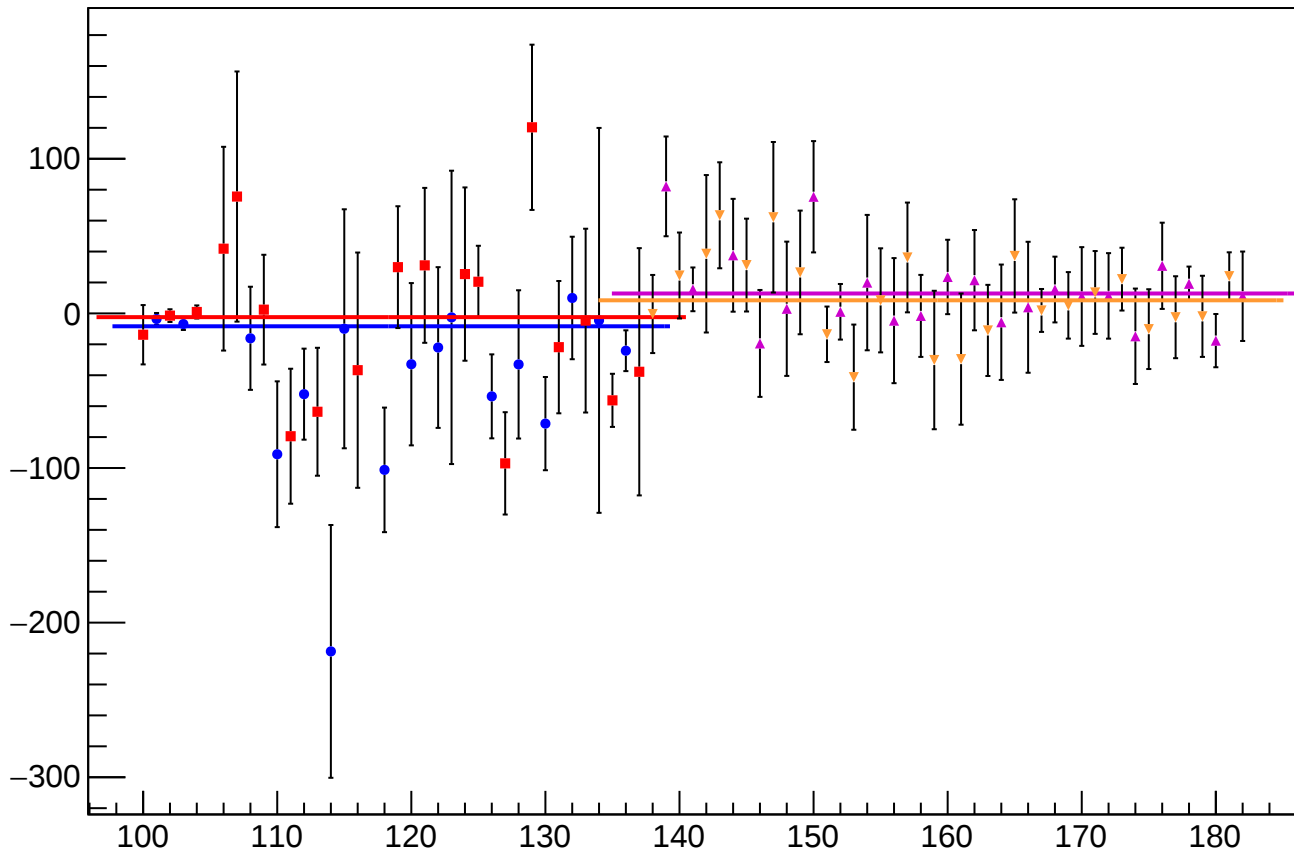
Right: 2480.778 $\pm$ 0.540 χ^2 /NDF: 4978057.3/35

In: 2386.369 $\pm$ 0.392 χ^2 /NDF: 7797742.2/38

Out: 2426.741 $\pm$ 0.394 χ^2 /NDF: 8137971.9/41

All: 2406.488 $\pm$ 0.278 χ^2 /NDF: 15940990.9/80

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.339 $\pm$ 2.588 χ^2/NDF : 28.3/16

Left Out: 8.461 $\pm$ 5.376 χ^2/NDF :14.8/22

Right Out: -2.423 $\pm$ 2.787 χ^2/NDF : 33.9/18

Left In: 12.876 $\pm$ 5.134 χ^2/NDF :15.3/21

Left: 10.770 $\pm$ 3.713 χ^2/NDF : 30.4/44

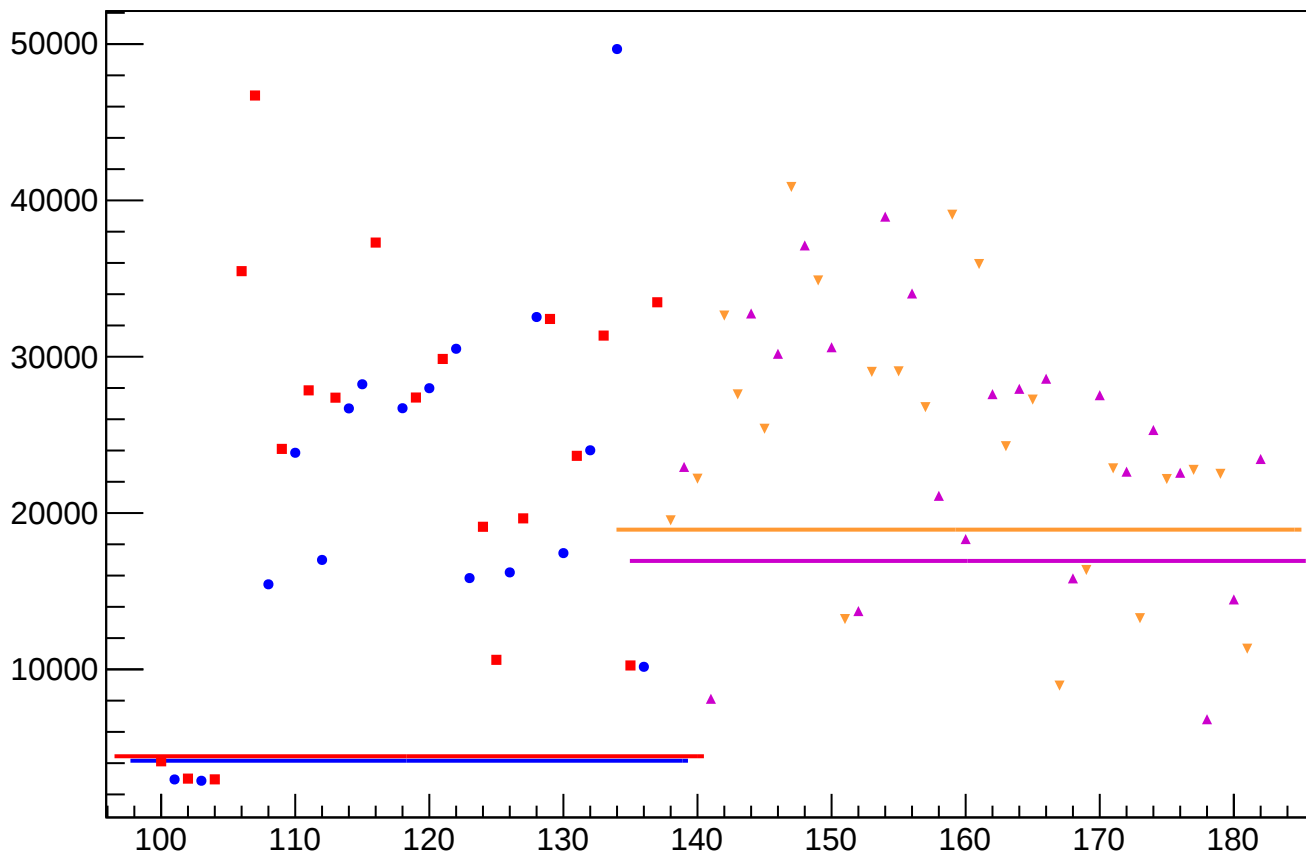
Right: -5.599 $\pm$ 1.896 χ^2/NDF : 64.6/35

In: -4.040 $\pm$ 2.311 χ^2/NDF :57.2/38

Out: -0.117 $\pm$ 2.474 χ^2/NDF :52.0/41

All: -2.212 $\pm$ 1.689 χ^2/NDF : 110.5/80

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

Left Out: 18938.282+/-3.802 χ^2/NDF : 4526316.9/22

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

Left In: 16937.102+/-3.630 χ^2/NDF : 6103935.3/21

Left: 17891.627+/-2.626 χ^2/NDF : 10775182.2/44

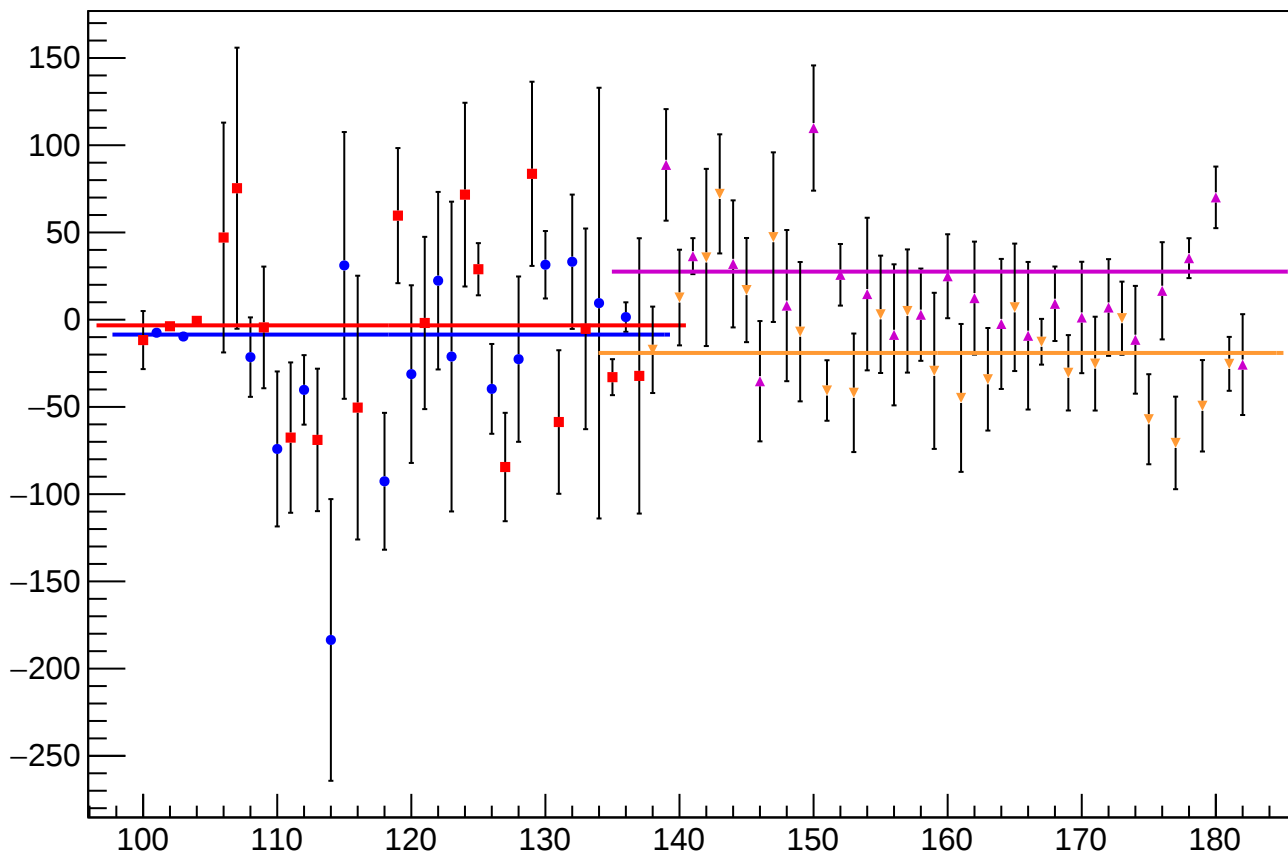
Right: 4288.220+/-1.341 χ^2/NDF : 13385734.9/35

In: 6745.815+/-1.634 χ^2/NDF : 21961269.5/38

Out: 7511.983+/-1.750 χ^2/NDF : 23387899.5/41

All: 7102.799+/-1.194 χ^2/NDF : 45451585.5/80

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -19.057 $\pm$ 5.315 χ^2/NDF : 26.1/22

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

Left In: 27.551 $\pm$ 4.886 χ^2/NDF : 30.0/21

Left: 6.203 $\pm$ 3.597 χ^2/NDF : 97.7/44

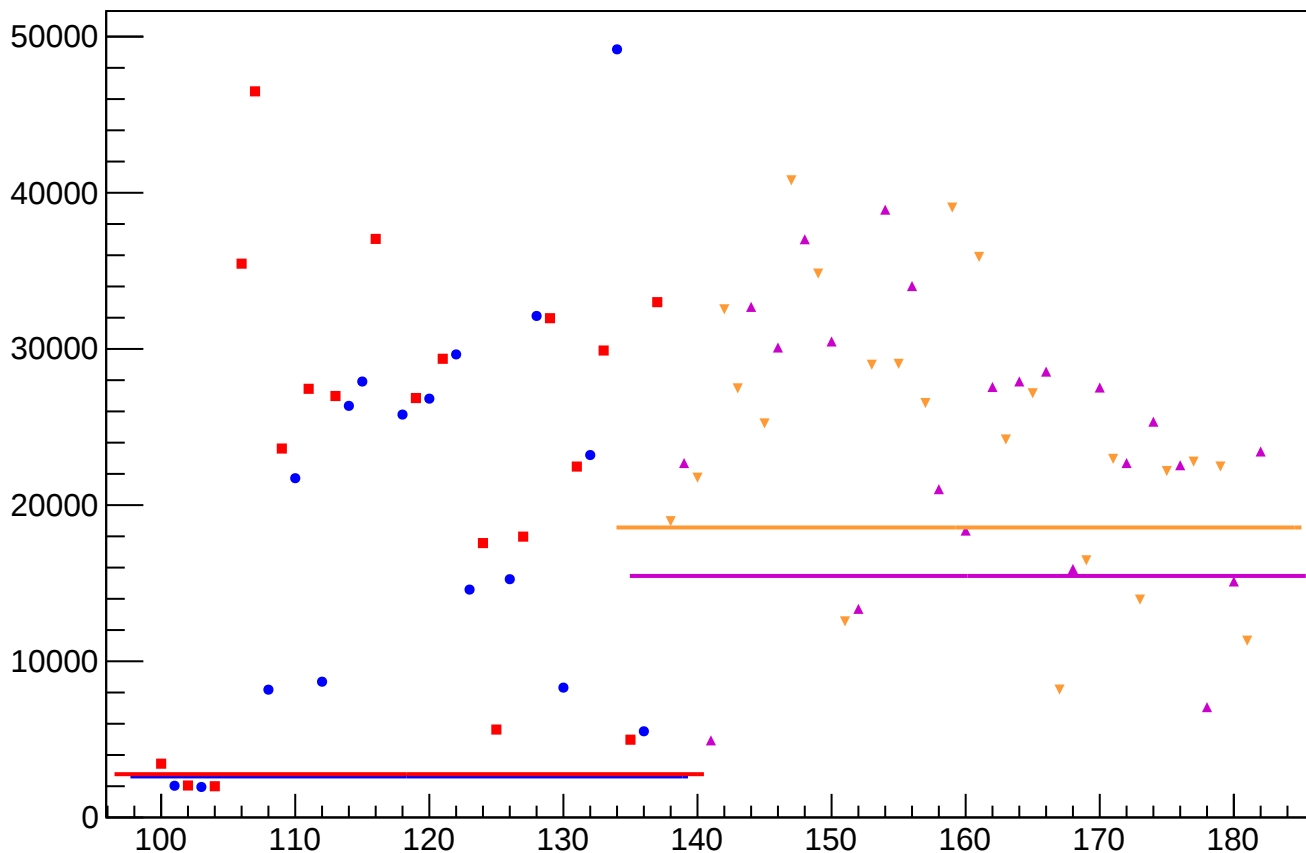
Right: -6.098 $\pm$ 1.305 χ^2/NDF : 65.0/35

In: -4.316 $\pm$ 1.671 χ^2/NDF : 102.1/38

Out: -5.077 $\pm$ 1.808 χ^2/NDF : 70.8/41

All: -4.666 $\pm$ 1.227 χ^2/NDF : 173.0/80

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2627.104 +/- 1.257 χ^2/NDF : 5569866.4/16

Left Out: 18567.586 +/- 3.758 χ^2/NDF : 4823563.6/22

Right Out: 2770.651 +/- 1.359 χ^2/NDF : 7812778.8/18

Left In: 15464.859 +/- 3.455 χ^2/NDF : 7666859.5/21

Left: 16886.010 +/- 2.543 χ^2/NDF : 12859867.6/44

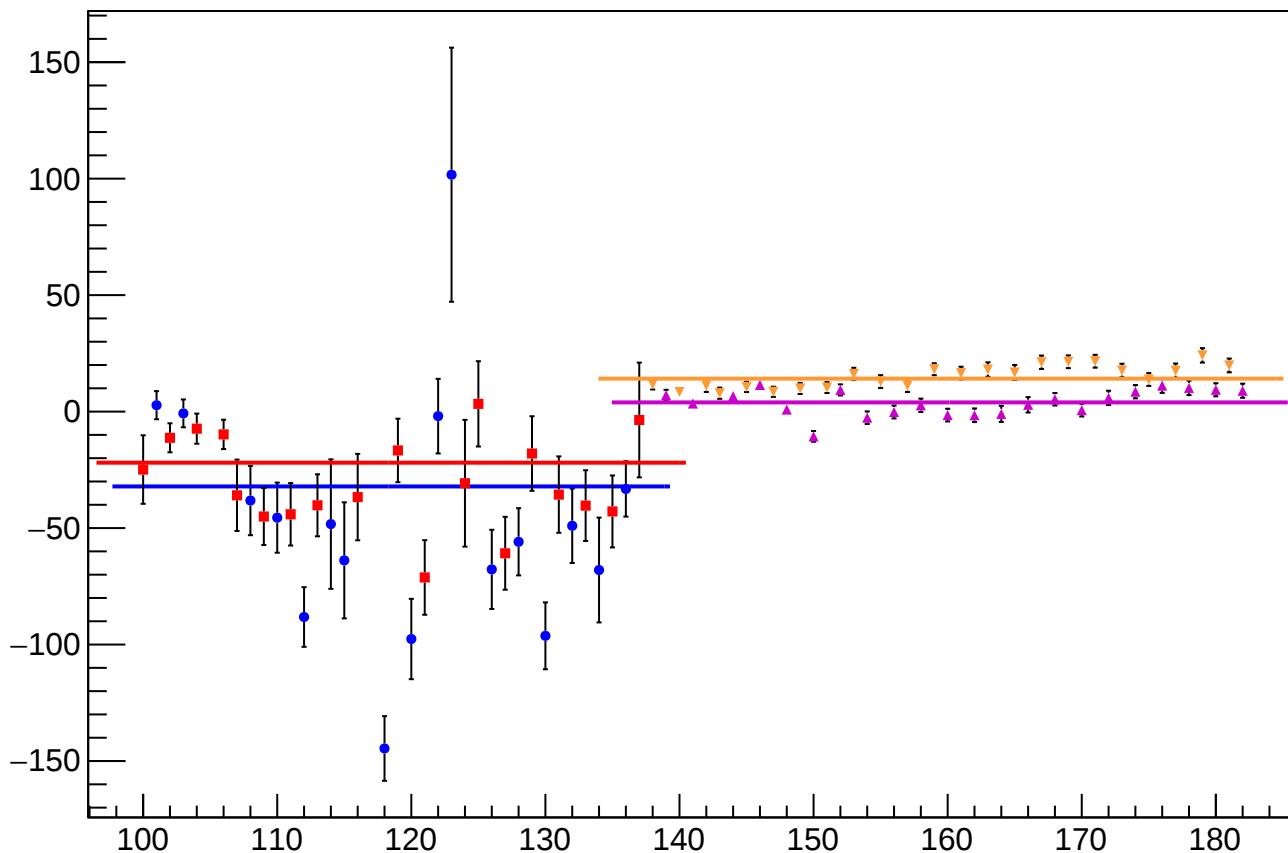
Right: 2693.290 +/- 0.923 χ^2/NDF : 13388655.9/35

In: 4128.458 +/- 1.181 χ^2/NDF : 25430265.6/38

Out: 4598.184 +/- 1.278 χ^2/NDF : 28262059.3/41

All: 4344.871 +/- 0.868 χ^2/NDF : 53765153.3/86

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 14.142 ± 0.548 χ^2/NDF : 75.5/22

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

Left In: 3.949 ± 0.558 χ^2/NDF : 101.9/21

Left: 9.142 ± 0.391 χ^2/NDF : 347.3/44

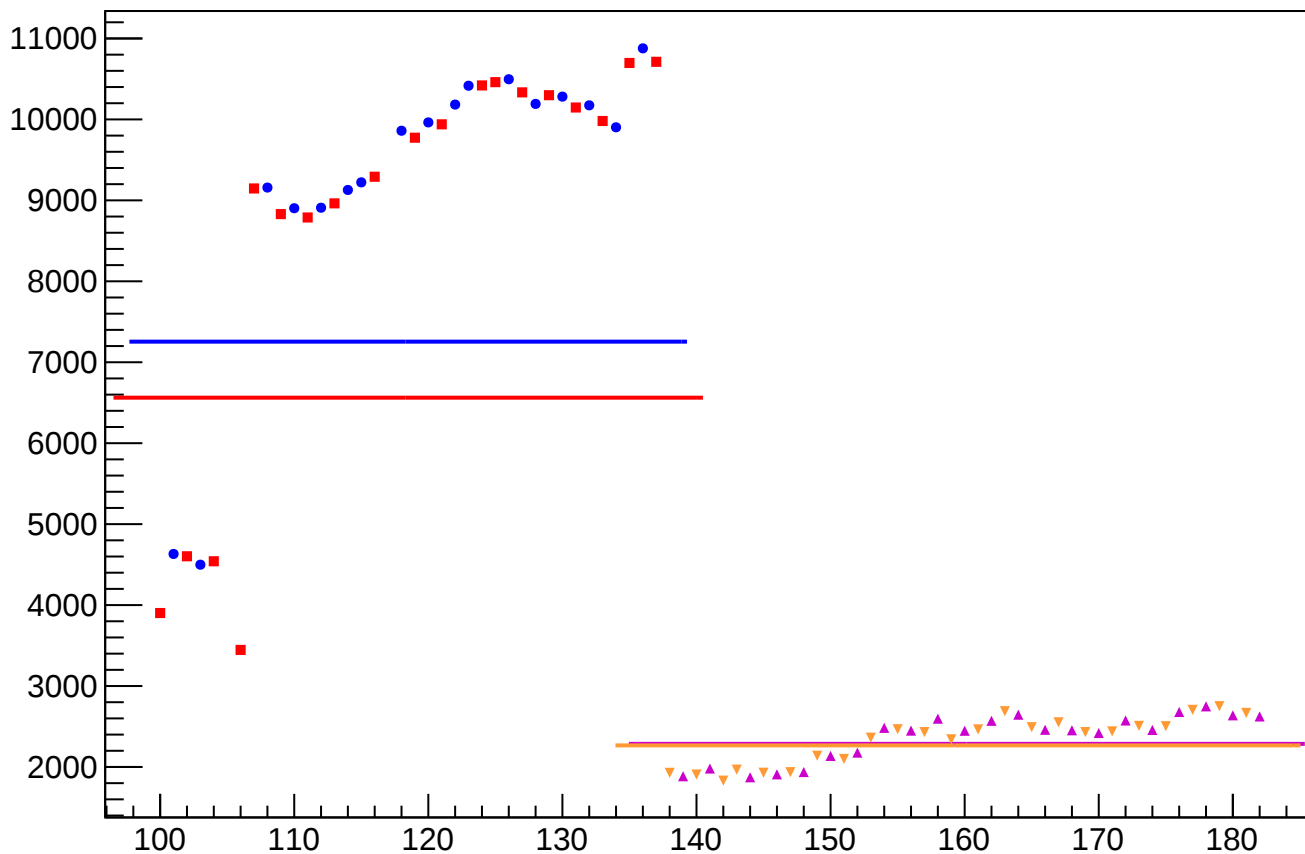
Right: -26.460 ± 1.991 χ^2/NDF : 253.7/35

In: 2.730 ± 0.549 χ^2/NDF : 446.4/38

Out: 12.687 ± 0.537 χ^2/NDF : 294.2/41

All: 7.820 ± 0.384 χ^2/NDF : 909.0/80

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2266.616 $\pm$ 0.387 χ^2/NDF :558668.0/22

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

Left In: 2285.509 $\pm$ 0.395 χ^2/NDF :577284.2/21

Left: 2275.883 $\pm$ 0.276 χ^2/NDF : 1137119.6/44

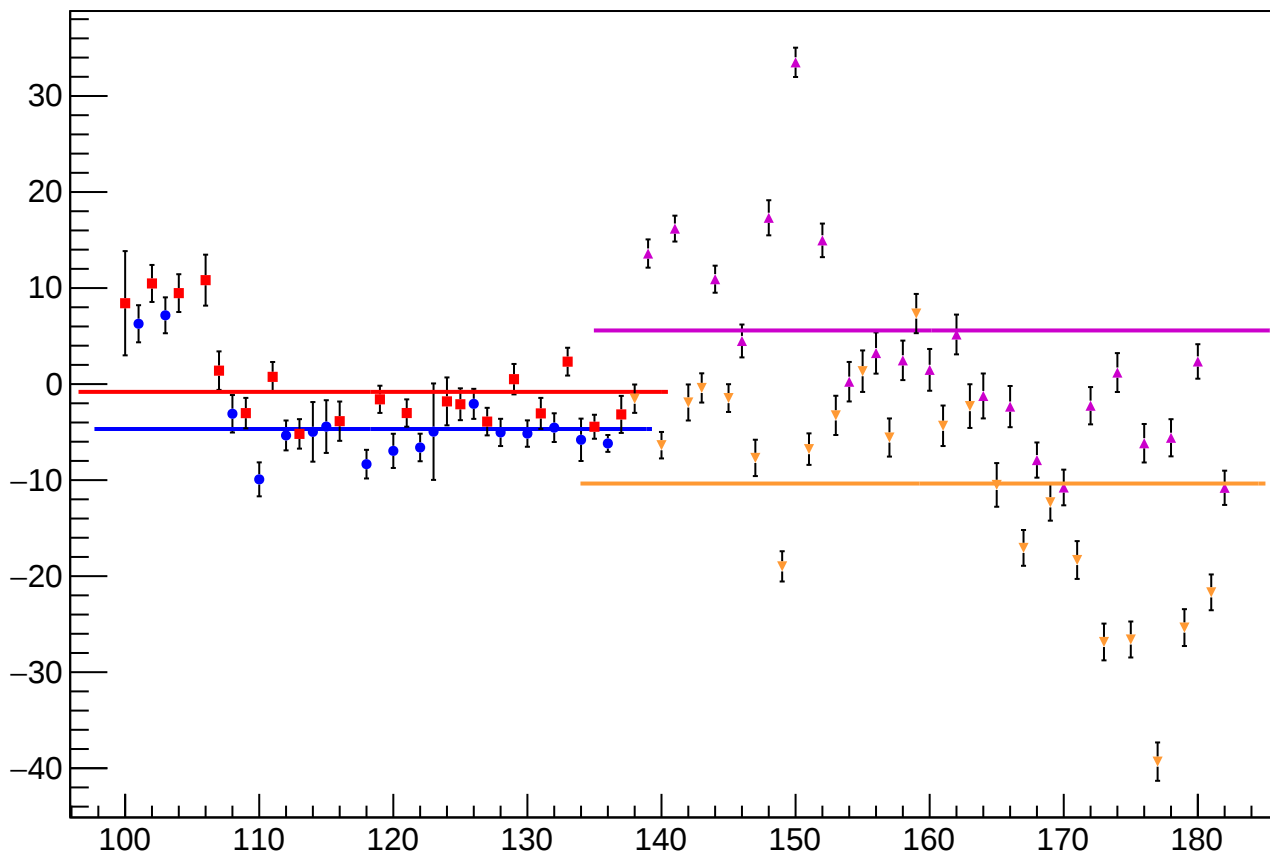
Right: 6870.261 $\pm$ 1.408 χ^2/NDF : 3883763.4/35

In: 2453.438 $\pm$ 0.388 χ^2/NDF :7566542.1/38

Out: 2439.874 $\pm$ 0.379 χ^2/NDF :7712297.7/41

All: 2446.504 $\pm$ 0.271 χ^2/NDF : 15279464.7/8

diff_bpm0l04Y_mean vs Slug, Sign Corrected



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

Left Out: -10.356 ± 0.379 χ^2/NDF : 813.0/22

Right Out: -0.810 ± 0.389 χ^2/NDF : 123.7/18

Left In: 5.585 ± 0.387 χ^2/NDF : 854.6/21

Left: -2.557 ± 0.271 χ^2/NDF : 2535.2/44

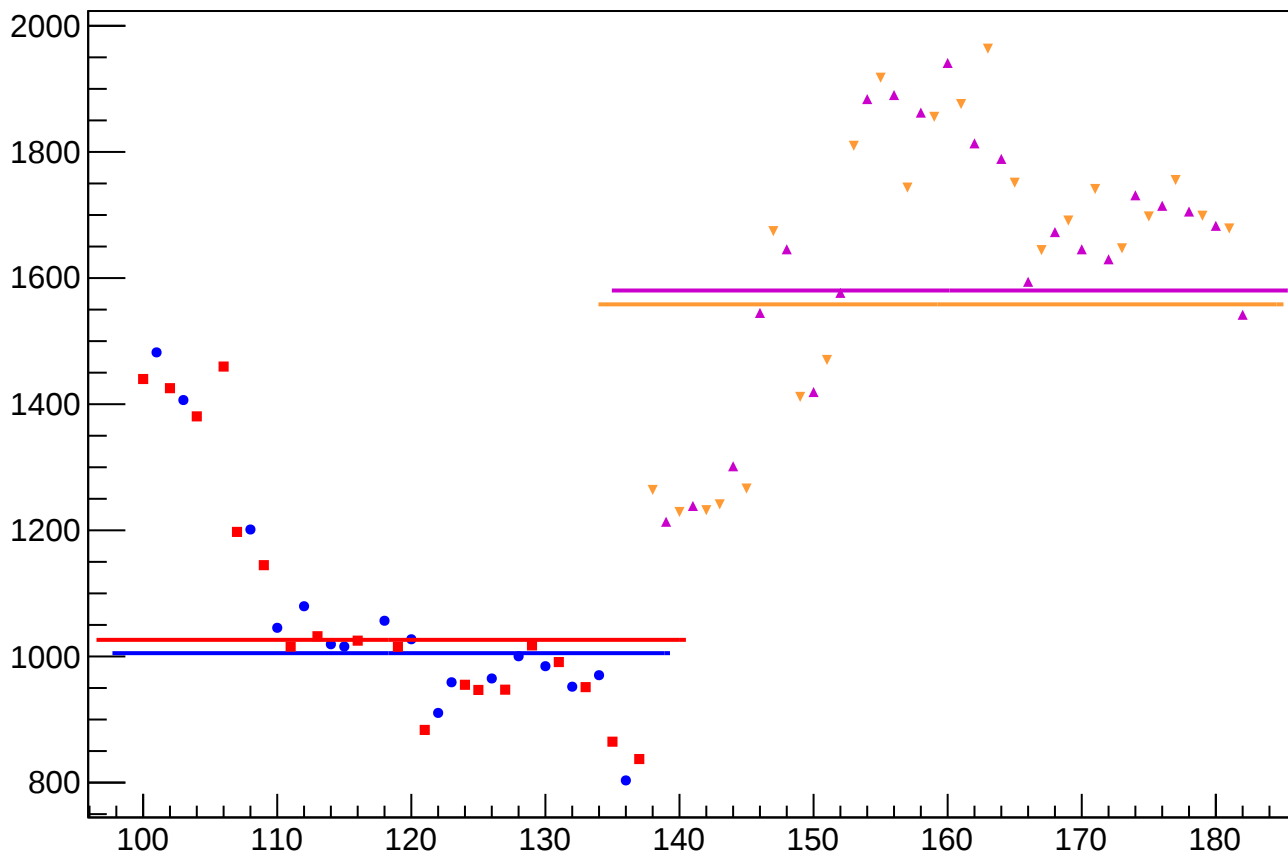
Right: -2.723 ± 0.277 χ^2/NDF : 270.1/35

In: 0.541 ± 0.276 χ^2/NDF : 1298.2/38

Out: -5.716 ± 0.271 χ^2/NDF : 1245.8/41

All: -2.638 ± 0.193 χ^2/NDF : 2805.5/80

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1558.315 +/- 0.268 χ^2/NDF : 806901.0/22

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

Left In: 1580.294 +/- 0.273 χ^2/NDF : 620827.2/21

Left: 1569.068 +/- 0.191 χ^2/NDF : 1431027.1/44

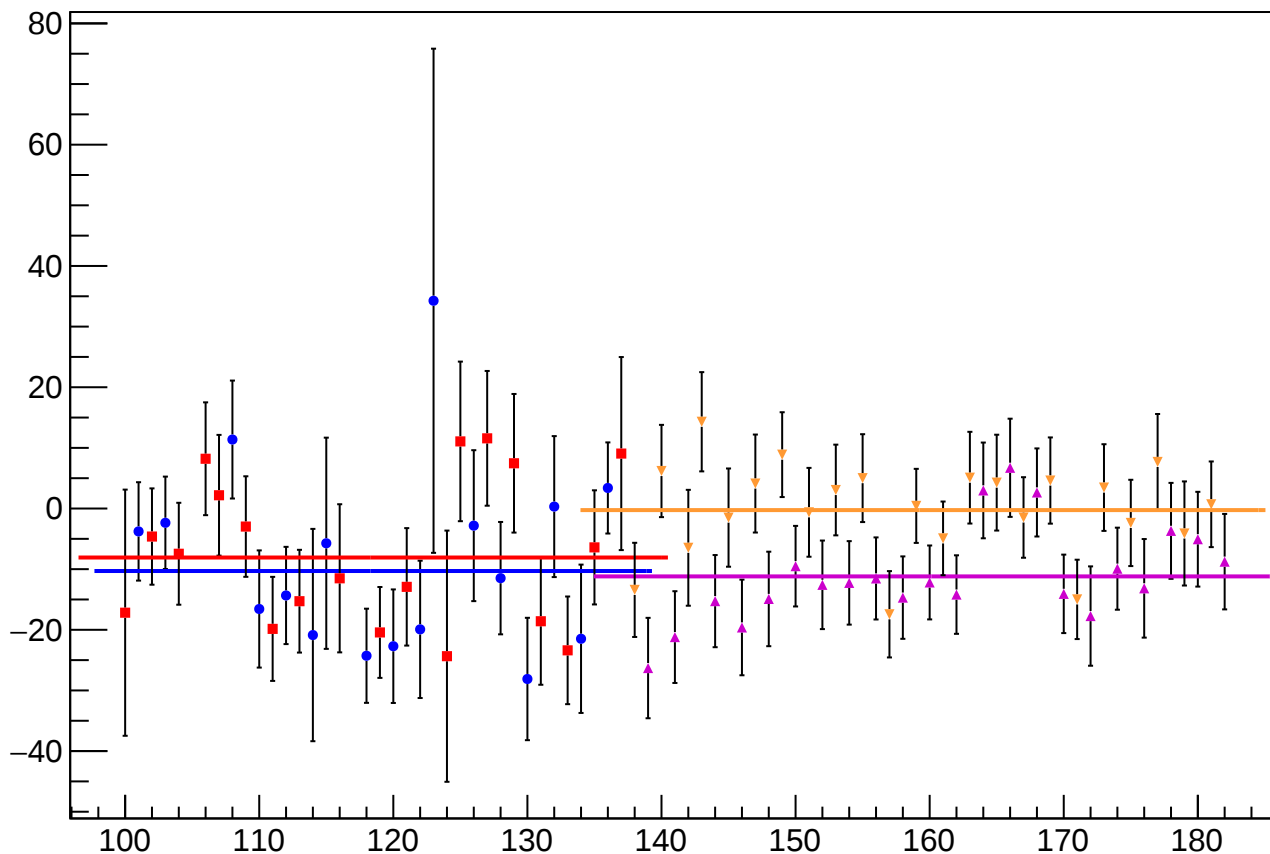
Right: 1015.898 +/- 0.196 χ^2/NDF : 697807.1/35

In: 1297.608 +/- 0.195 χ^2/NDF : 3156216.3/38

Out: 1299.733 +/- 0.192 χ^2/NDF : 3059899.0/41

All: 1298.688 +/- 0.137 χ^2/NDF : 6216175.6/80

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.261 $\pm$ 1.528 χ^2/NDF : 24.3/22

Right Out: -8.079 $\pm$ 2.281 χ^2/NDF : 23.4/18

Left In: -11.193 $\pm$ 1.556 χ^2/NDF : 21.7/21

Left: -5.629 $\pm$ 1.090 χ^2/NDF : 71.2/44

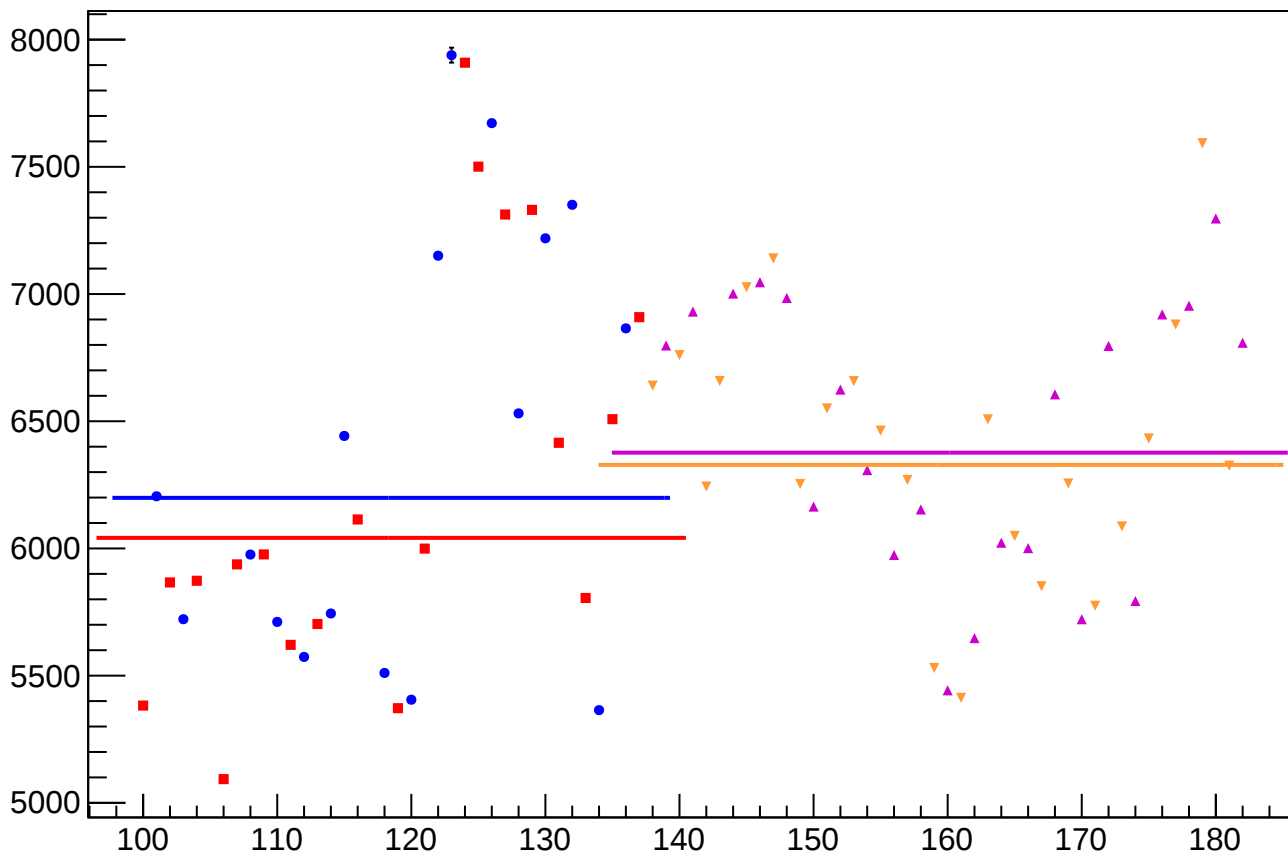
Right: -9.130 $\pm$ 1.657 χ^2/NDF : 47.1/35

In: -10.932 $\pm$ 1.307 χ^2/NDF : 44.9/38

Out: -2.683 $\pm$ 1.270 χ^2/NDF : 55.9/41

All: -6.687 $\pm$ 0.911 χ^2/NDF : 121.3/80

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6328.621+/-1.081 χ^2/NDF : 218826.3/22

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

Left In: 6376.560+/-1.100 χ^2/NDF : 246437.3/21

Left: 6352.163+/-0.771 χ^2/NDF : 466230.2/44

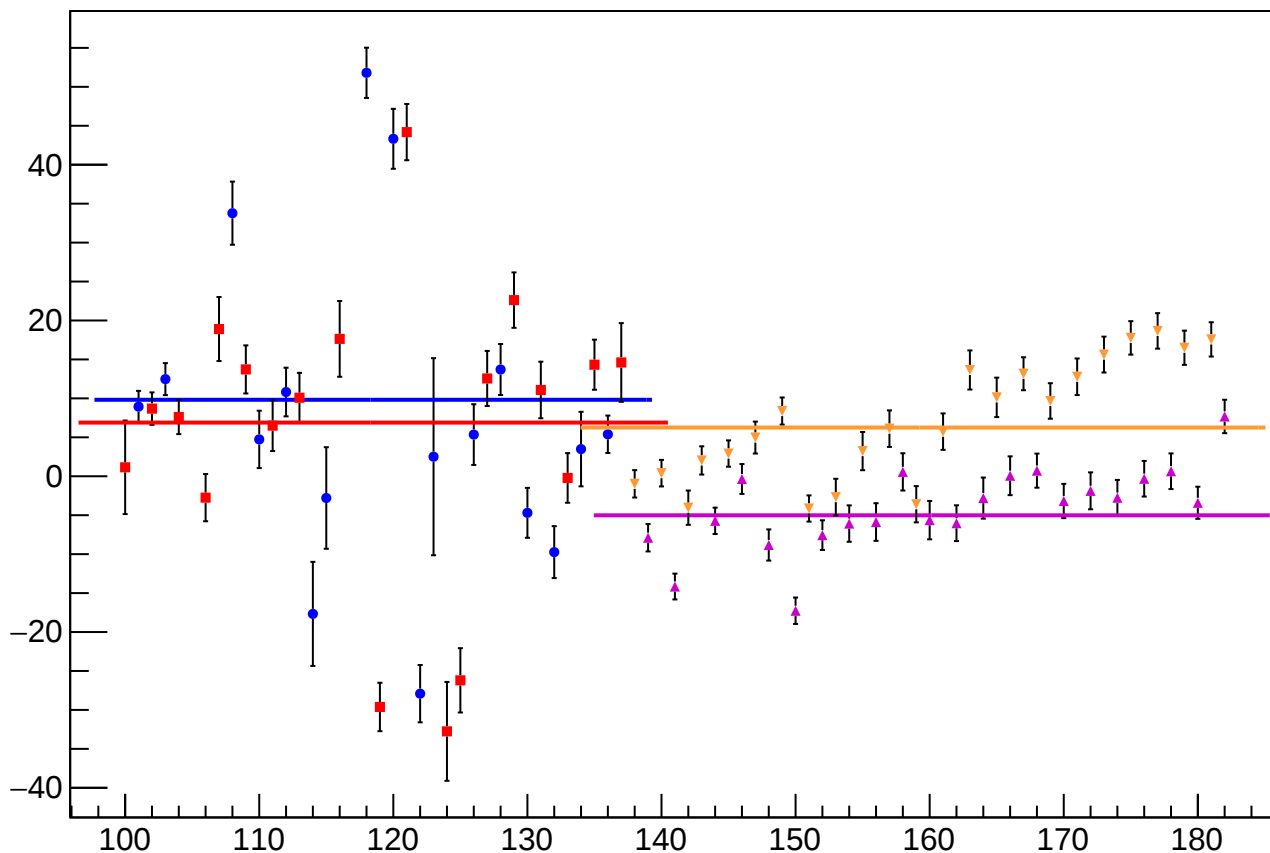
Right: 6115.860+/-1.172 χ^2/NDF : 332181.0/35

In: 6324.355+/-0.924 χ^2/NDF : 425409.8/38

Out: 6239.700+/-0.898 χ^2/NDF : 397070.5/41

All: 6280.787+/-0.644 χ^2/NDF : 826796.7/80

diff_bpm0l05Y_mean vs Slug, Sign Corrected



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

Left Out: 6.255 ± 0.436 χ^2/NDF : 288.5/22

Right Out: 6.893 ± 0.766 χ^2/NDF : 415.2/18

Left In: -5.013 ± 0.448 χ^2/NDF : 163.9/21

Left: 0.774 ± 0.312 χ^2/NDF : 777.7/44

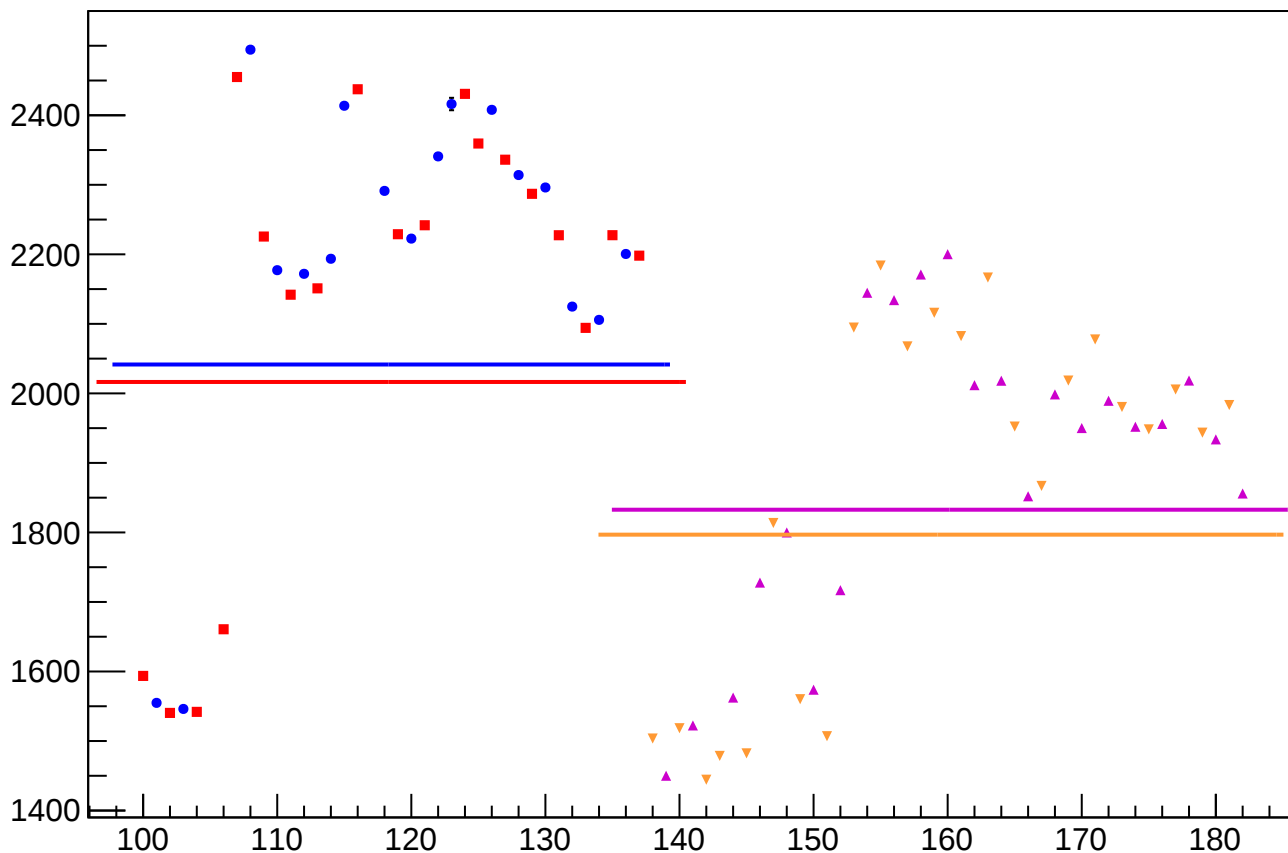
Right: 8.296 ± 0.553 χ^2/NDF : 894.8/35

In: -1.462 ± 0.390 χ^2/NDF : 899.3/38

Out: 6.411 ± 0.379 χ^2/NDF : 704.2/41

All: 2.595 ± 0.272 χ^2/NDF : 1813.1/80

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1796.810 $\pm$ 0.308 χ^2 /NDF: 726803.5/22

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

Left In: 1832.681 $\pm$ 0.317 χ^2 /NDF: 505111.6/21

Left: 1814.259 $\pm$ 0.221 χ^2 /NDF: 1238509.4/44

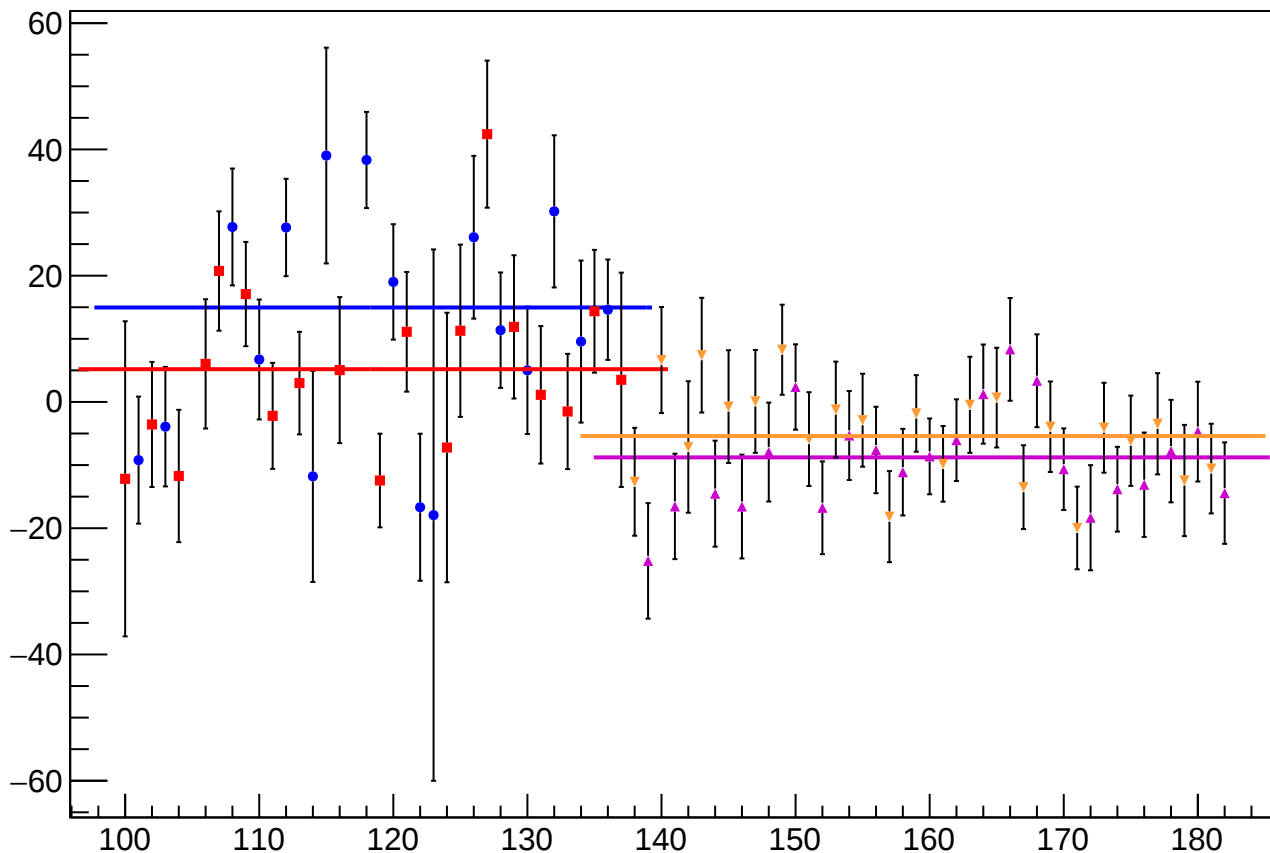
Right: 2028.464 $\pm$ 0.391 χ^2 /NDF: 732406.2/35

In: 1882.682 $\pm$ 0.276 χ^2 /NDF: 965548.8/38

Out: 1850.511 $\pm$ 0.268 χ^2 /NDF: 1226205.1/41

All: 1866.105 $\pm$ 0.192 χ^2 /NDF: 2198750.9/80

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.961 $\pm$ 2.490 χ^2/NDF : 40.9/16

Left Out: -5.408 $\pm$ 1.560 χ^2/NDF : 22.4/22

Right Out: 5.187 $\pm$ 2.360 χ^2/NDF : 28.2/18

Left In: -8.780 $\pm$ 1.585 χ^2/NDF : 21.7/21

Left: -7.067 $\pm$ 1.112 χ^2/NDF : 46.4/44

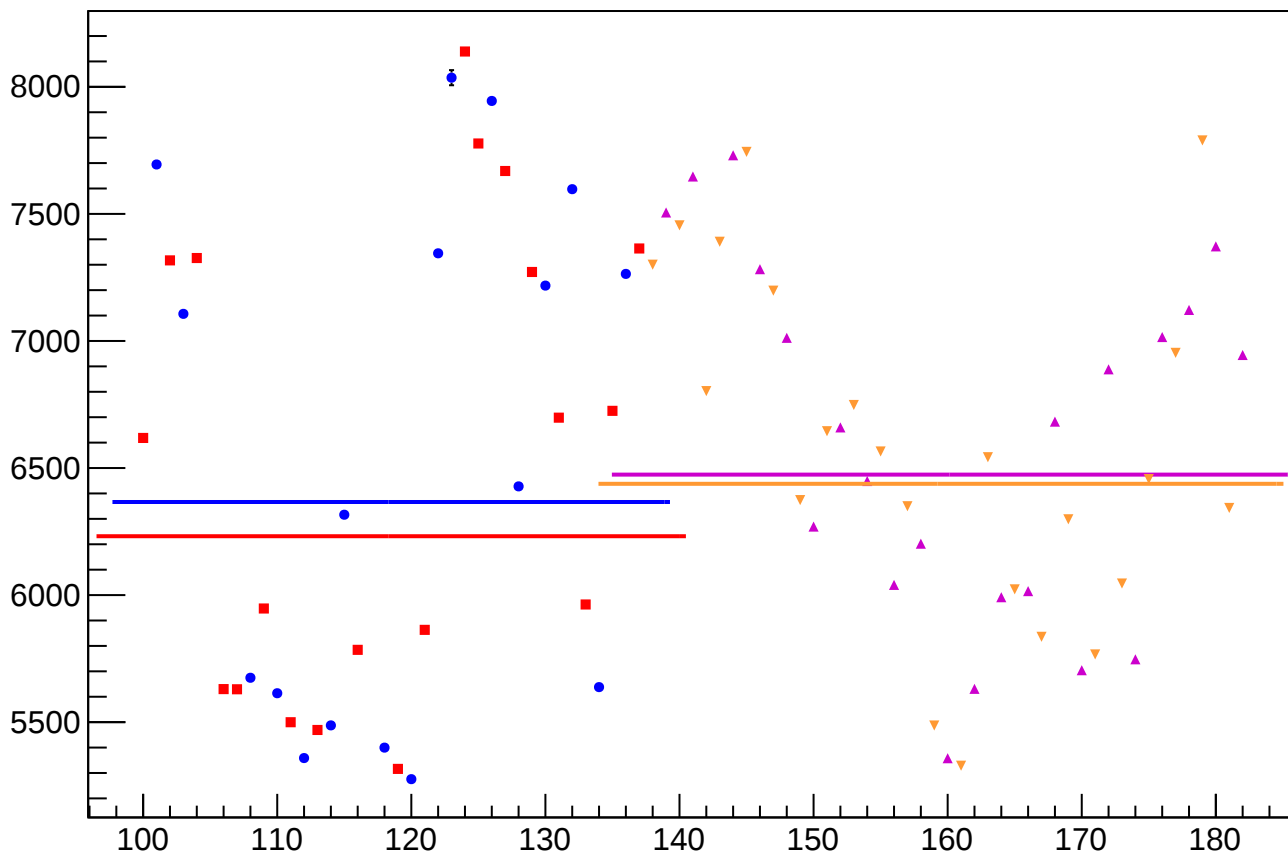
Right: 9.813 $\pm$ 1.713 χ^2/NDF : 77.2/35

In: -1.932 $\pm$ 1.337 χ^2/NDF : 127.3/38

Out: -2.186 $\pm$ 1.301 χ^2/NDF : 64.6/41

All: -2.063 $\pm$ 0.933 χ^2/NDF : 192.0/80

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6437.907 $\pm$ 1.103 χ^2 /NDF: 363969.9/22

Right Out: 6231.657 $\pm$ 1.669 χ^2 /NDF: 241308.4/18

Left In: 6474.092 $\pm$ 1.121 χ^2 /NDF: 382147.8/21

Left: 6455.710 $\pm$ 0.786 χ^2 /NDF: 746647.2/44

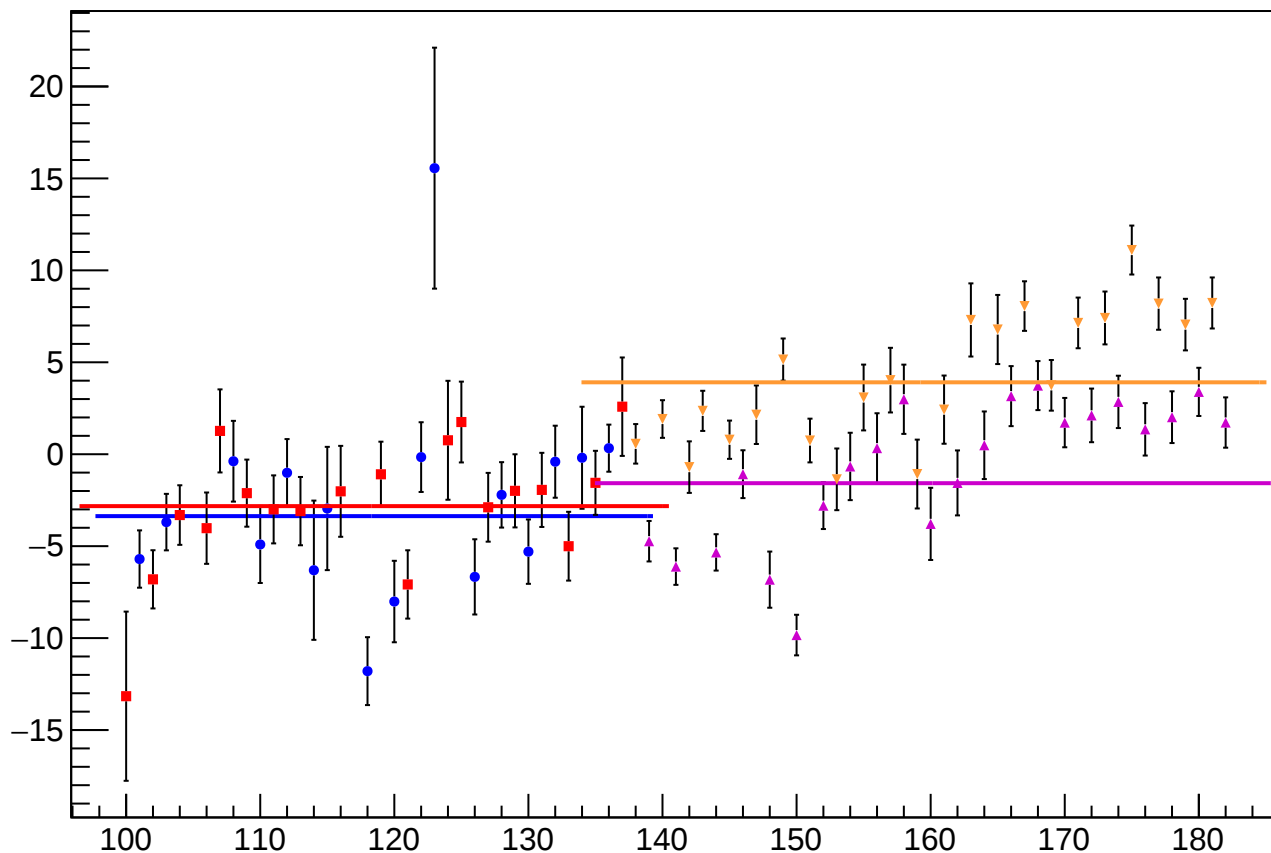
Right: 6295.395 $\pm$ 1.211 χ^2 /NDF: 529958.8/35

In: 6443.013 $\pm$ 0.945 χ^2 /NDF: 670380.9/38

Out: 6375.189 $\pm$ 0.920 χ^2 /NDF: 615910.2/41

All: 6408.181 $\pm$ 0.659 χ^2 /NDF: 1288934.0/80

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.367 $\pm$ 0.476 χ^2/NDF : 59.6/16

Left Out: 3.911 $\pm$ 0.286 χ^2/NDF :141.7/22

Right Out: -2.823 $\pm$ 0.457 χ^2/NDF : 33.5/18

Left In: -1.575 $\pm$ 0.293 χ^2/NDF :199.3/21

Left: 1.237 $\pm$ 0.205 χ^2/NDF : 520.4/44

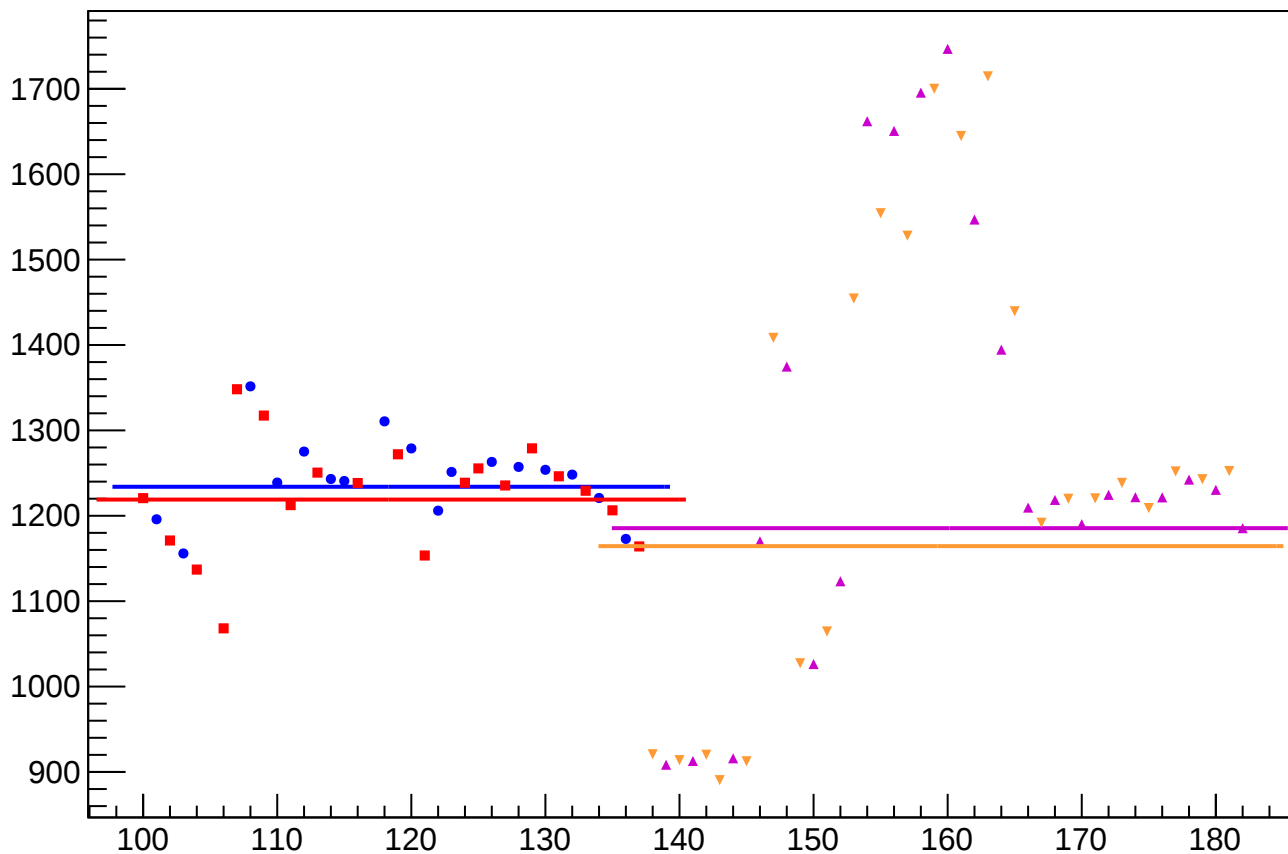
Right: -3.084 $\pm$ 0.330 χ^2/NDF : 93.8/35

In: -2.068 $\pm$ 0.250 χ^2/NDF :269.1/38

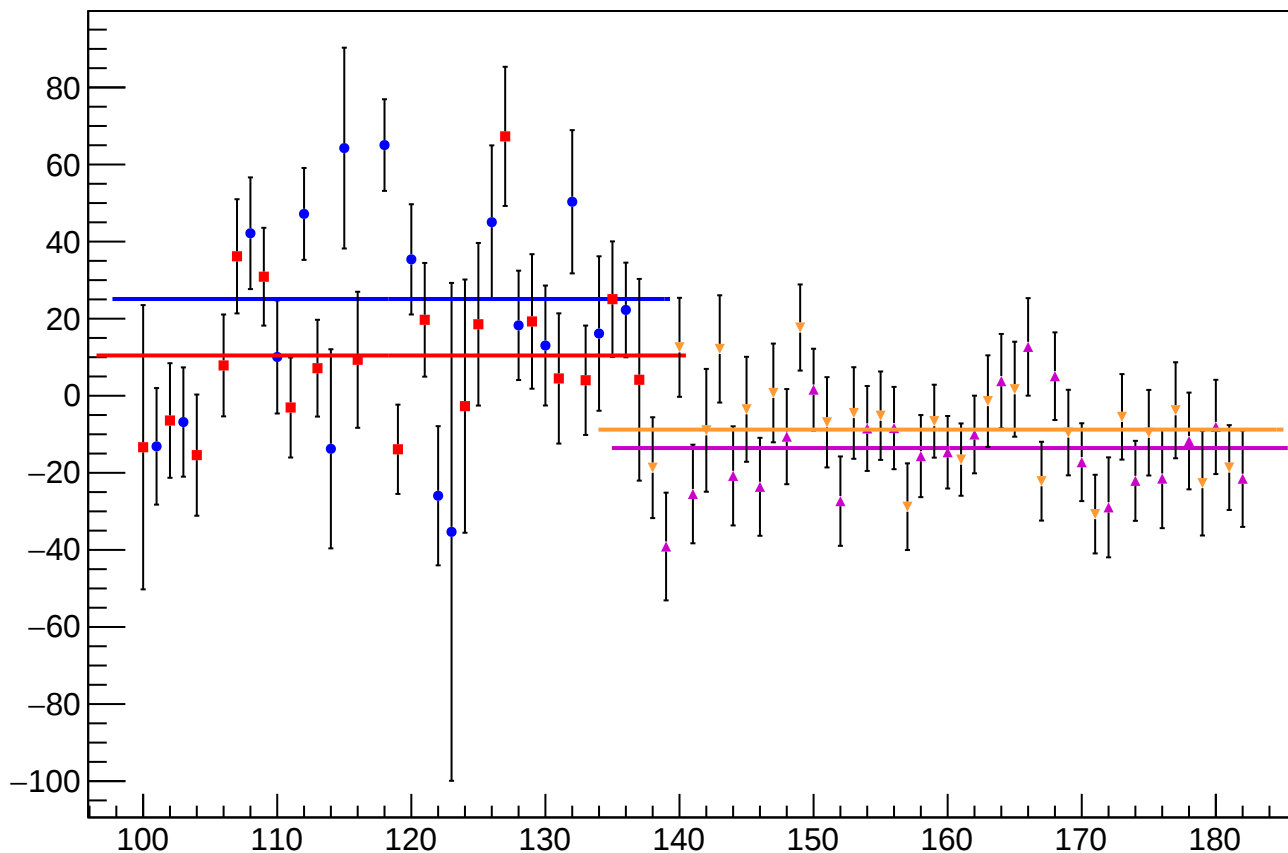
Out: 2.017 $\pm$ 0.242 χ^2/NDF :331.2/41

All: 0.035 $\pm$ 0.174 χ^2/NDF : 738.1/80

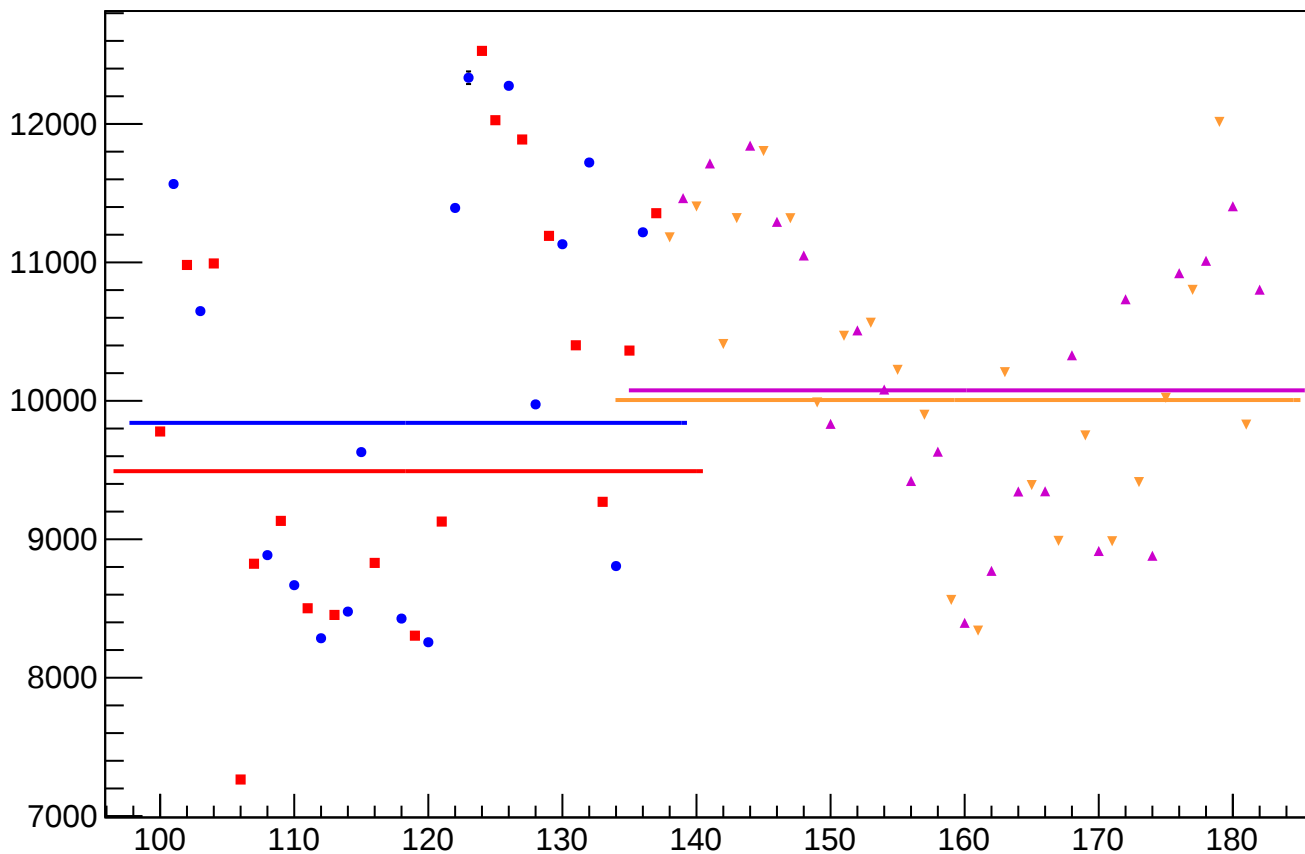
diff_bpm0l06Y_rms vs Slug, Sign Corrected



diff_bpm0l07X_mean vs Slug, Sign Corrected



diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10005.843 ± 1.714 $\chi^2/\text{NDF}: 337423.4/22$

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

Left In: 10075.825 ± 1.744 $\chi^2/\text{NDF}: 356123.7/21$

Left: 10040.232 ± 1.222 $\chi^2/\text{NDF}: 694366.5/44$

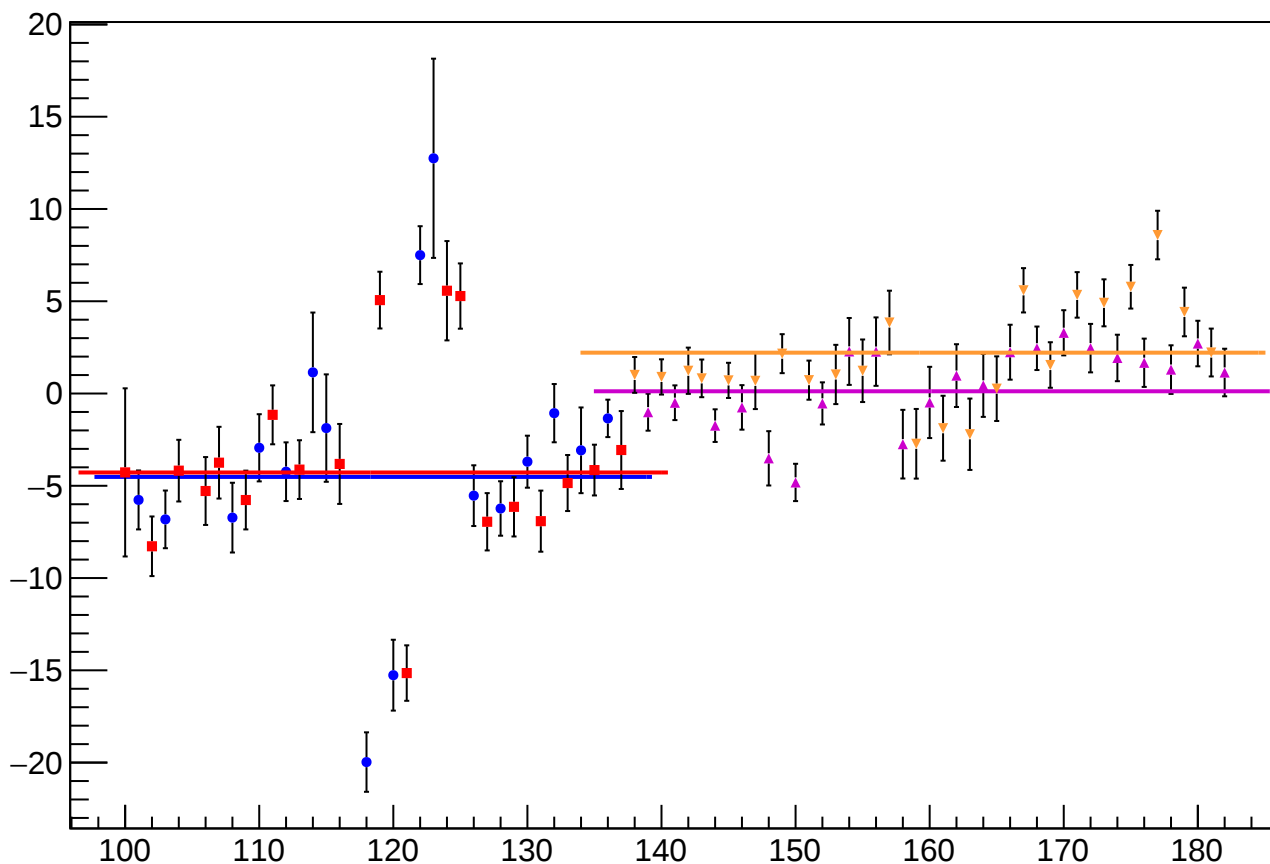
Right: 9654.969 ± 1.858 $\chi^2/\text{NDF}: 542472.7/35$

In: 10007.361 ± 1.468 $\chi^2/\text{NDF}: 620519.8/38$

Out: 9845.472 ± 1.421 $\chi^2/\text{NDF}: 640060.7/41$

All: 9923.831 ± 1.021 $\chi^2/\text{NDF}: 1266858.8/80$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.520 ± 0.409 χ^2/NDF : 218.2/16

Left Out: 2.214 ± 0.263 χ^2/NDF : 86.4/22

Right Out: -4.279 ± 0.395 χ^2/NDF : 150.4/18

Left In: 0.121 ± 0.271 χ^2/NDF : 67.6/21

Left: 1.198 ± 0.189 χ^2/NDF : 184.7/44

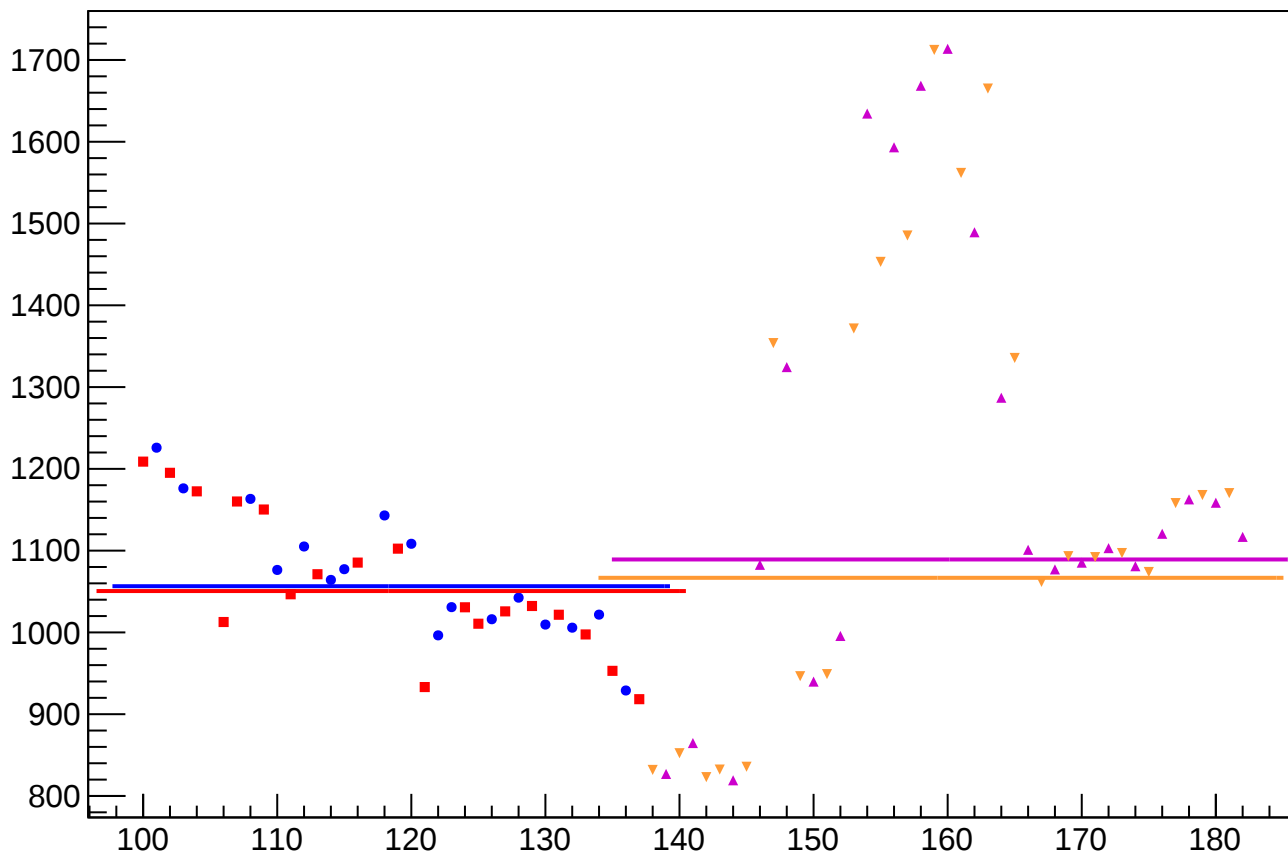
Right: -4.395 ± 0.284 χ^2/NDF : 368.8/35

In: -1.296 ± 0.226 χ^2/NDF : 375.2/38

Out: 0.214 ± 0.219 χ^2/NDF : 424.2/41

All: -0.517 ± 0.157 χ^2/NDF : 822.5/80

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1066.770 $\pm$ 0.186 χ^2 /NDF:1600120.9/22

Right Out: 1050.578 $\pm$ 0.279 χ^2 /NDF: 82328.7/18

Left In: 1089.196 $\pm$ 0.192 χ^2 /NDF:1430475.7/21

Left: 1077.656 $\pm$ 0.134 χ^2 /NDF: 3037641.1/44

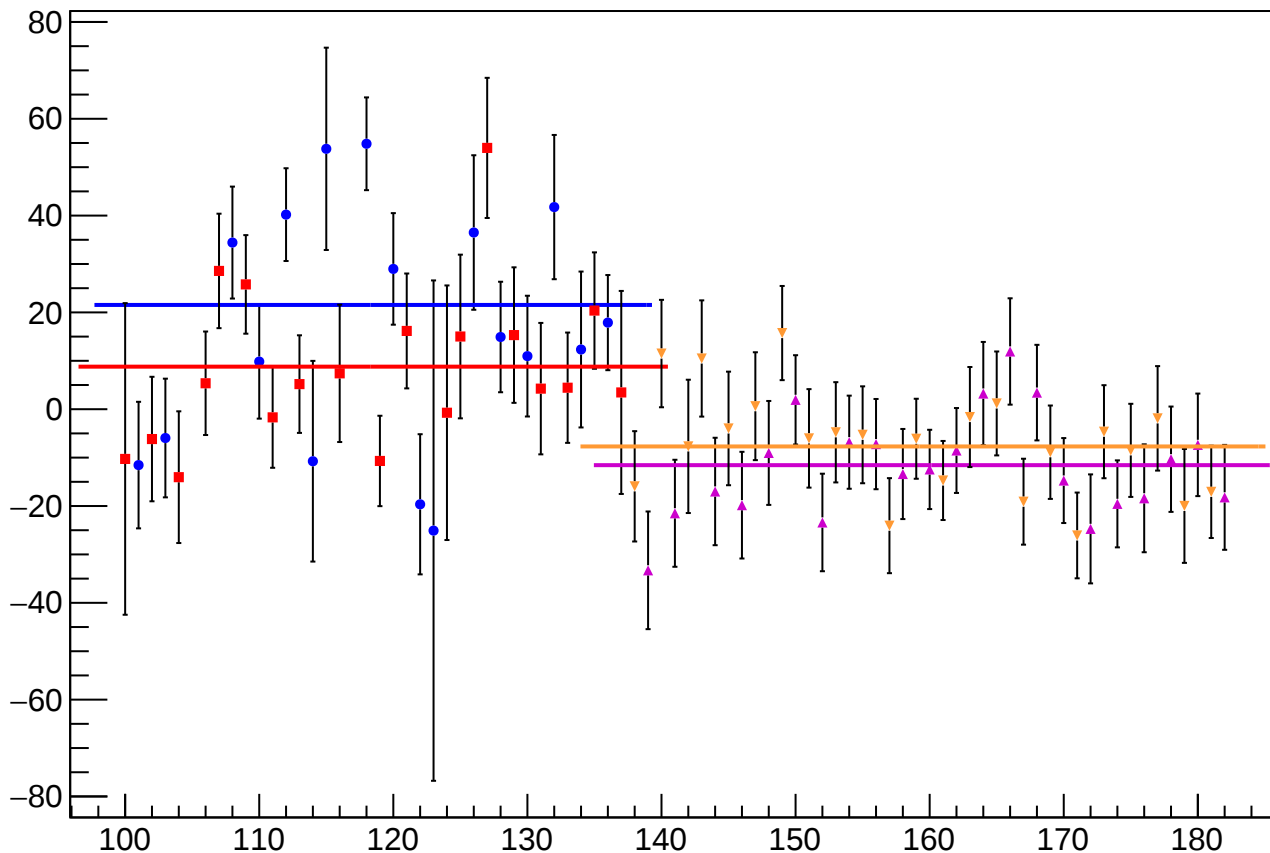
Right: 1053.431 $\pm$ 0.201 χ^2 /NDF: 173304.9/35

In: 1079.213 $\pm$ 0.160 χ^2 /NDF:1530122.1/38

Out: 1061.783 $\pm$ 0.155 χ^2 /NDF:1684779.8/41

All: 1070.226 $\pm$ 0.111 χ^2 /NDF: 3221038.7/80

diff_bpm0l08X_mean vs Slug, Sign Corrected



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

Left Out: -7.694 $\pm$ 2.106 χ^2 /NDF:25.4/22

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

Left In: -11.559 $\pm$ 2.142 χ^2 /NDF:21.0/21

Left: -9.593 $\pm$ 1.502 χ^2 /NDF: 48.1/44

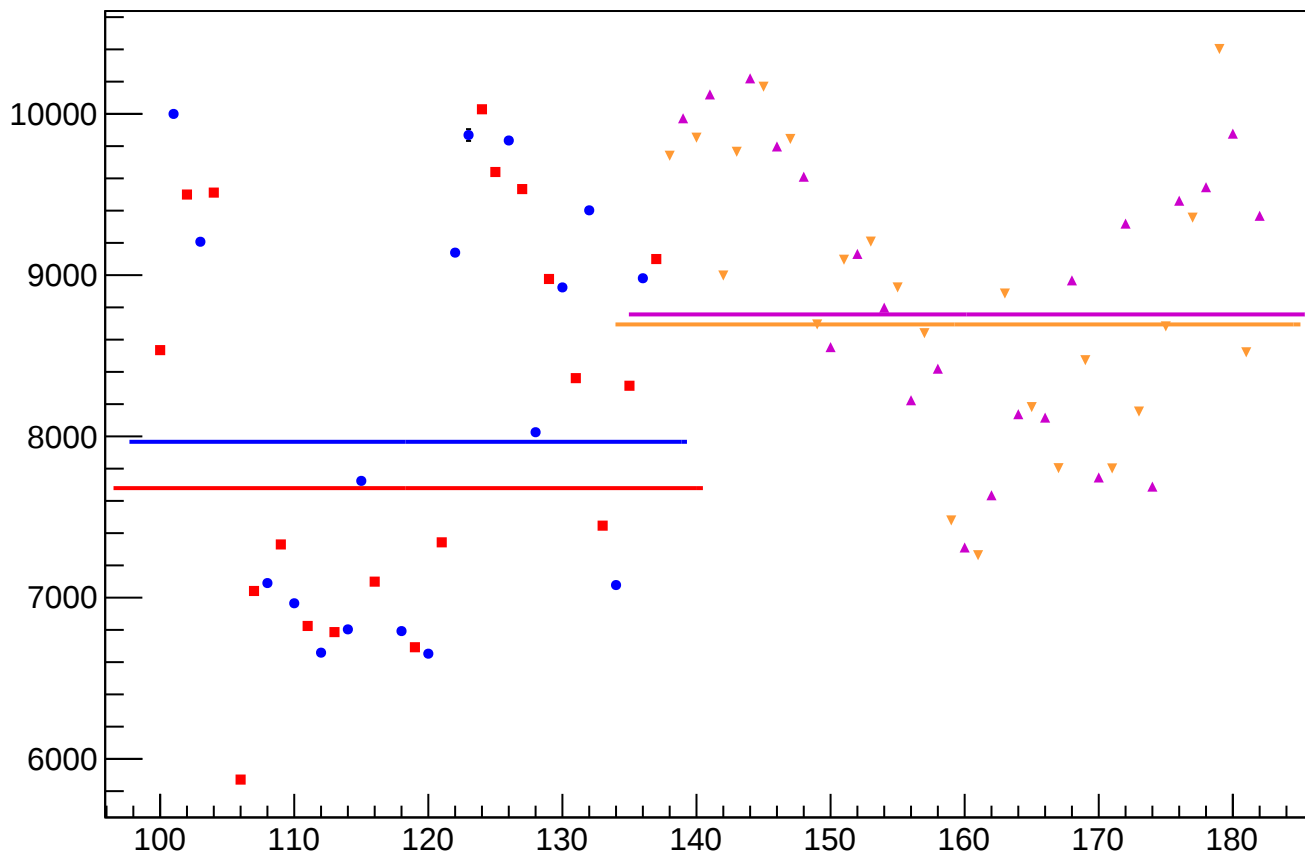
Right: 14.742 $\pm$ 2.129 χ^2 /NDF: 84.4/35

In: -0.934 $\pm$ 1.765 χ^2 /NDF:145.5/38

Out: -2.041 $\pm$ 1.707 χ^2 /NDF:74.0/41

All: -1.506 $\pm$ 1.227 χ^2 /NDF: 219.8/80

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8694.336 $\pm$ 1.489 χ^2/NDF : 325695.7/22

Right Out: 7679.131 $\pm$ 2.061 χ^2/NDF : 313051.7/18

Left In: 8756.374 $\pm$ 1.515 χ^2/NDF : 345230.1/21

Left: 8724.818 $\pm$ 1.062 χ^2/NDF : 671778.9/44

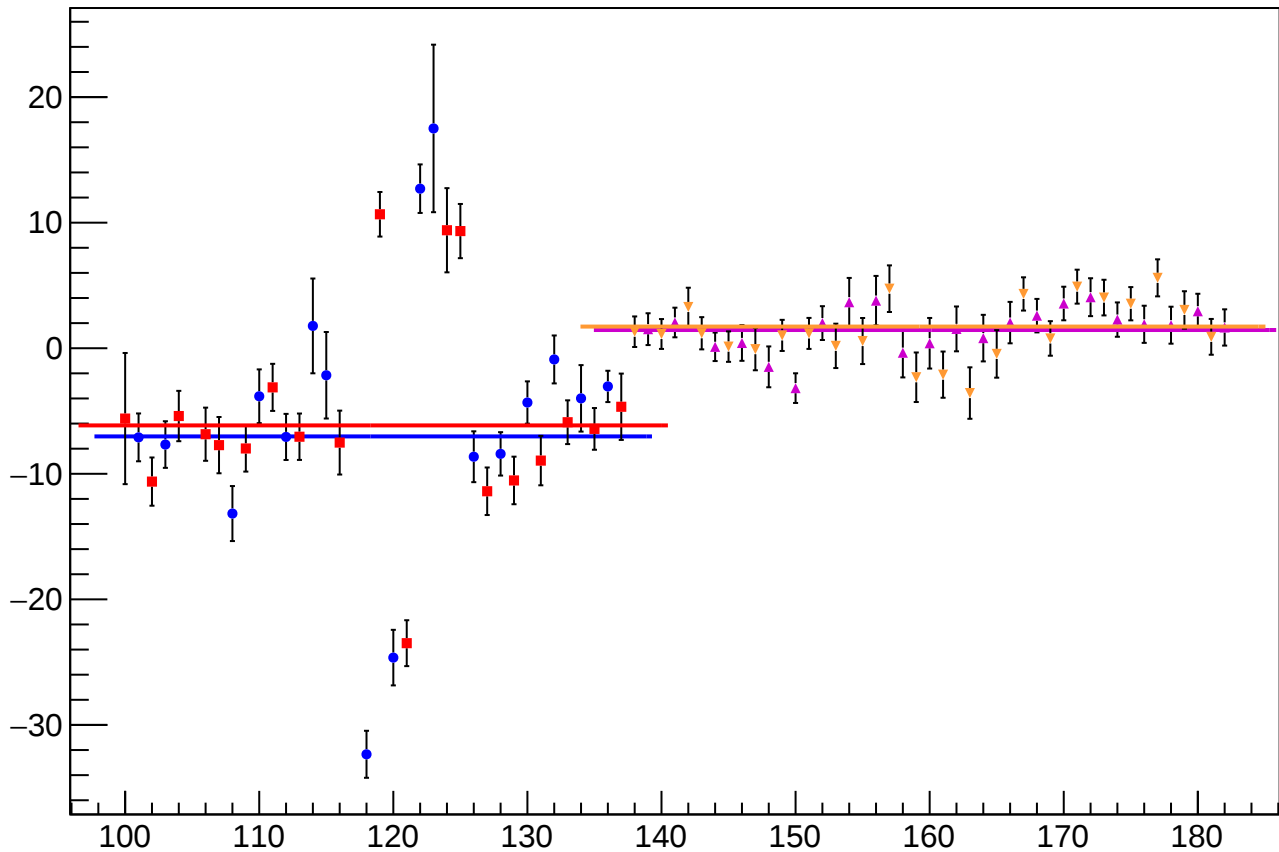
Right: 7813.225 $\pm$ 1.505 χ^2/NDF : 617781.0/35

In: 8502.811 $\pm$ 1.248 χ^2/NDF : 728169.9/38

Out: 8346.239 $\pm$ 1.207 χ^2/NDF : 798165.8/41

All: 8421.888 $\pm$ 0.868 χ^2/NDF : 1534467.0/80

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 1.725 ± 0.304 χ^2/NDF : 47.7/22

Right Out: -6.146 ± 0.467 χ^2/NDF : 278.4/18

Left In: 1.451 ± 0.312 χ^2/NDF : 33.0/21

Left: 1.592 ± 0.218 χ^2/NDF : 81.1/44

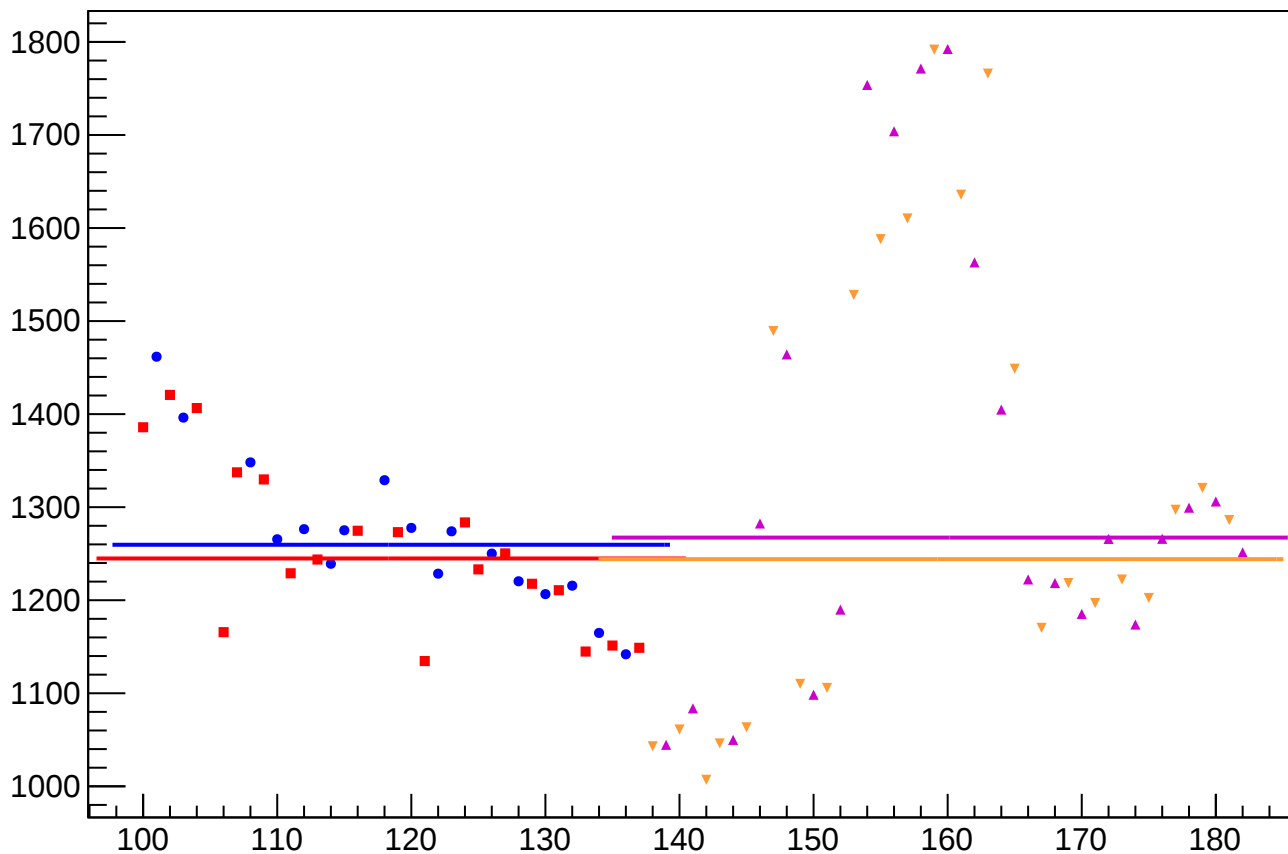
Right: -6.566 ± 0.337 χ^2/NDF : 687.3/35

In: -1.015 ± 0.263 χ^2/NDF : 654.8/38

Out: -0.611 ± 0.255 χ^2/NDF : 525.5/41

All: -0.806 ± 0.183 χ^2/NDF : 1181.5/80

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.602 ± 0.344 χ^2/NDF : 64816.8/16

Left Out: 1244.126 ± 0.215 χ^2/NDF : 951596.5/22

Right Out: 1244.874 ± 0.331 χ^2/NDF : 66819.5/18

Left In: 1267.300 ± 0.221 χ^2/NDF : 842361.6/21

Left: 1255.398 ± 0.154 χ^2/NDF : 1799623.8/44

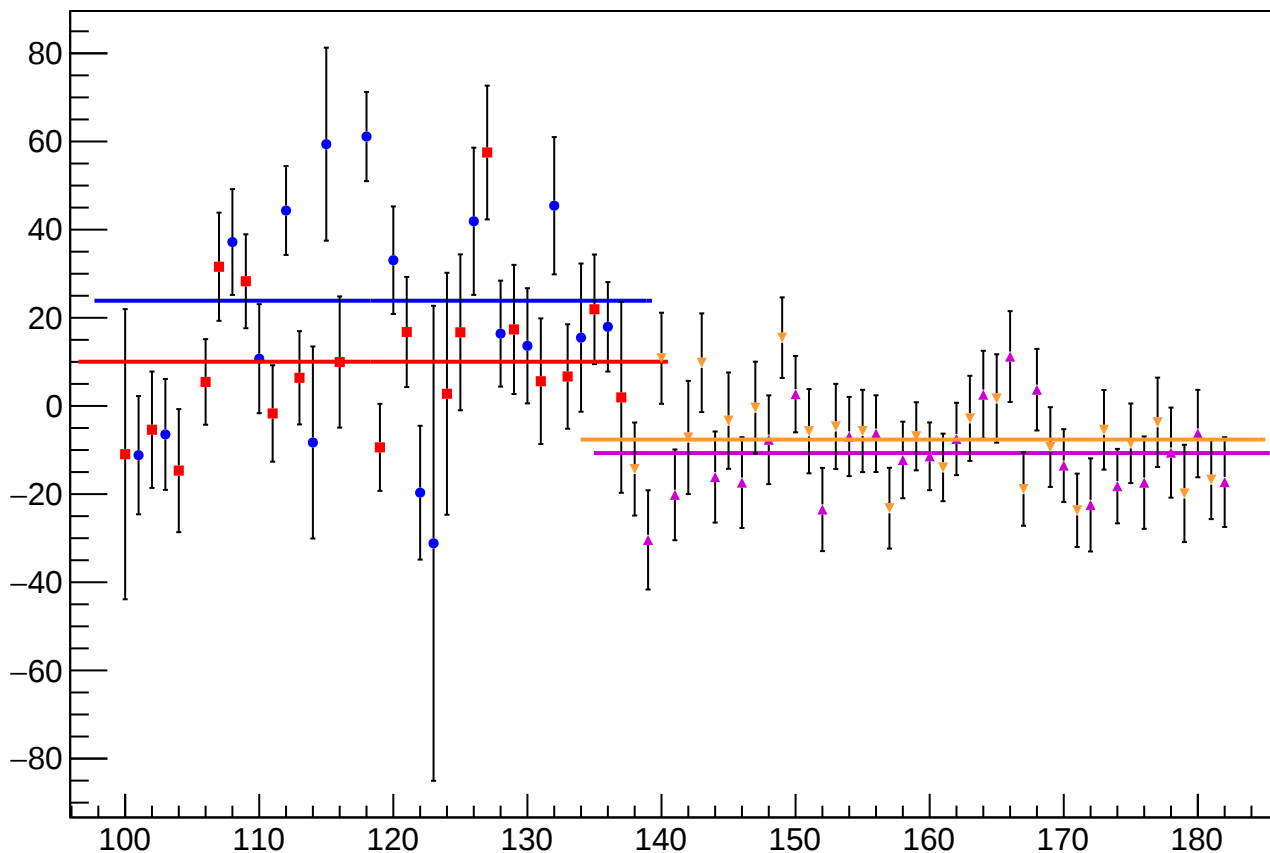
Right: 1251.936 ± 0.238 χ^2/NDF : 132588.1/35

In: 1265.060 ± 0.186 χ^2/NDF : 907532.6/38

Out: 1244.348 ± 0.180 χ^2/NDF : 1018419.5/41

All: 1254.380 ± 0.129 χ^2/NDF : 1932360.8/80

diff_bpm0l09X_mean vs Slug, Sign Corrected



Left: -9.129 $\pm$ 1.406 χ^2/NDF : 48.5/44

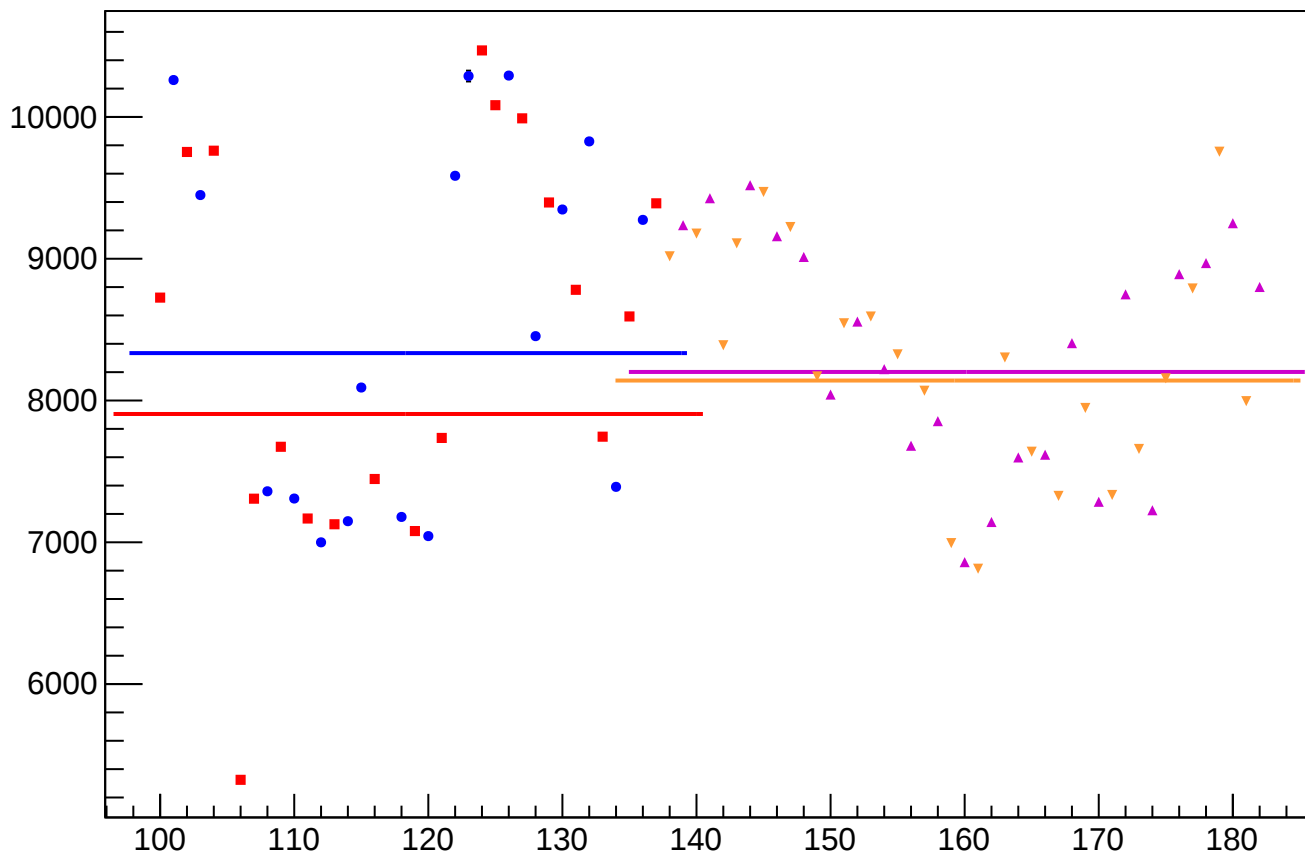
Right: 16.410 $\pm$ 2.210 χ^2/NDF : 89.8/35

In: -1.177 $\pm$ 1.708 χ^2/NDF : 155.0/38

Out: -2.322 $\pm$ 1.649 χ^2/NDF : 78.1/41

All: -1.770 $\pm$ 1.186 χ^2/NDF : 233.4/80

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8140.942 $\pm$ 1.394 χ^2 /NDF:315252.4/22

Right Out: 7904.987 $\pm$ 2.127 χ^2 /NDF: 388597.2/18

Left In: 8201.469 $\pm$ 1.419 χ^2 /NDF:336727.1/21

Left: 8170.672 $\pm$ 0.994 χ^2 /NDF: 652905.9/44

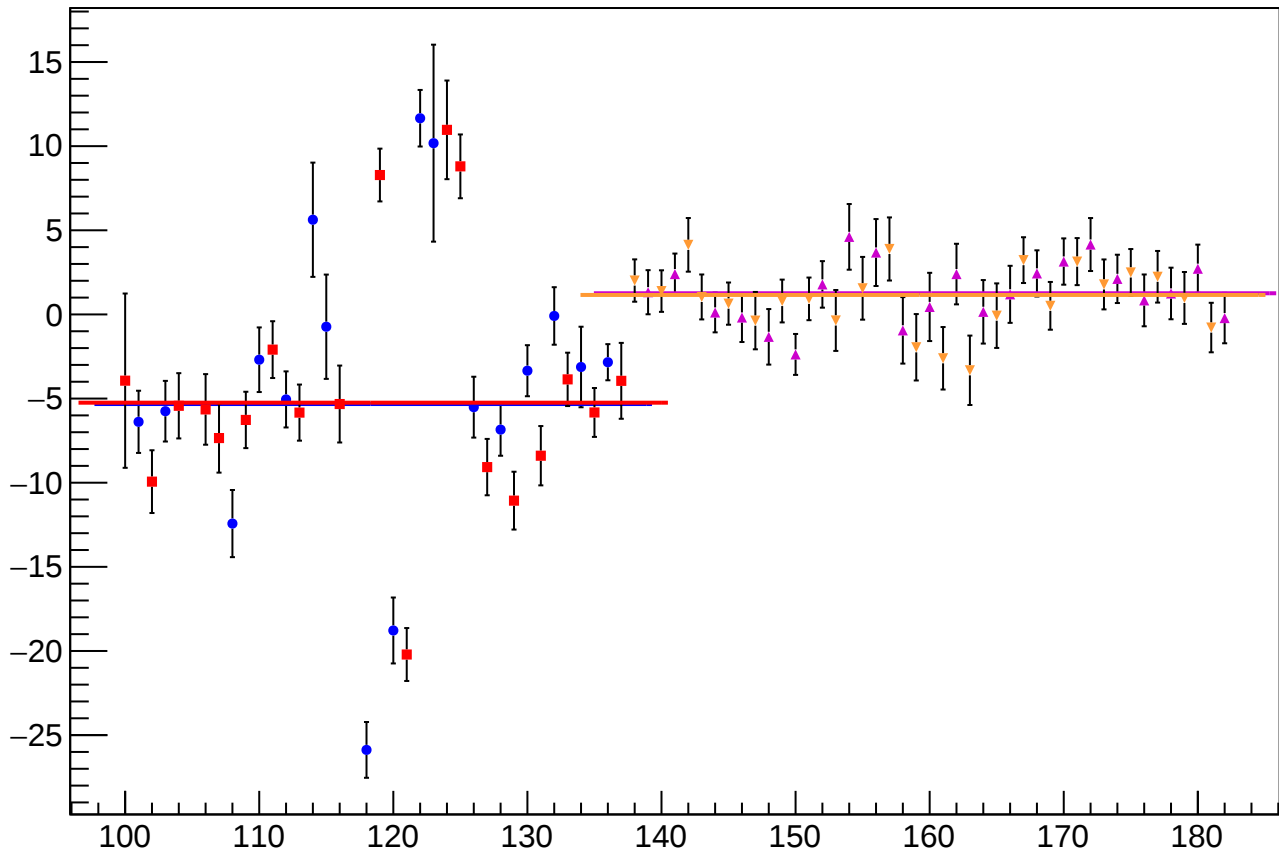
Right: 8102.760 $\pm$ 1.563 χ^2 /NDF: 678729.4/35

In: 8238.052 $\pm$ 1.208 χ^2 /NDF:610510.7/38

Out: 8070.079 $\pm$ 1.166 χ^2 /NDF:712456.5/41

All: 8151.102 $\pm$ 0.839 χ^2 /NDF: 1332979.8/80

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 1.158 ± 0.313 χ^2/NDF : 27.5/22

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

Left In: 1.258 ± 0.321 χ^2/NDF : 29.3/21

Left: 1.206 ± 0.224 χ^2/NDF : 56.9/44

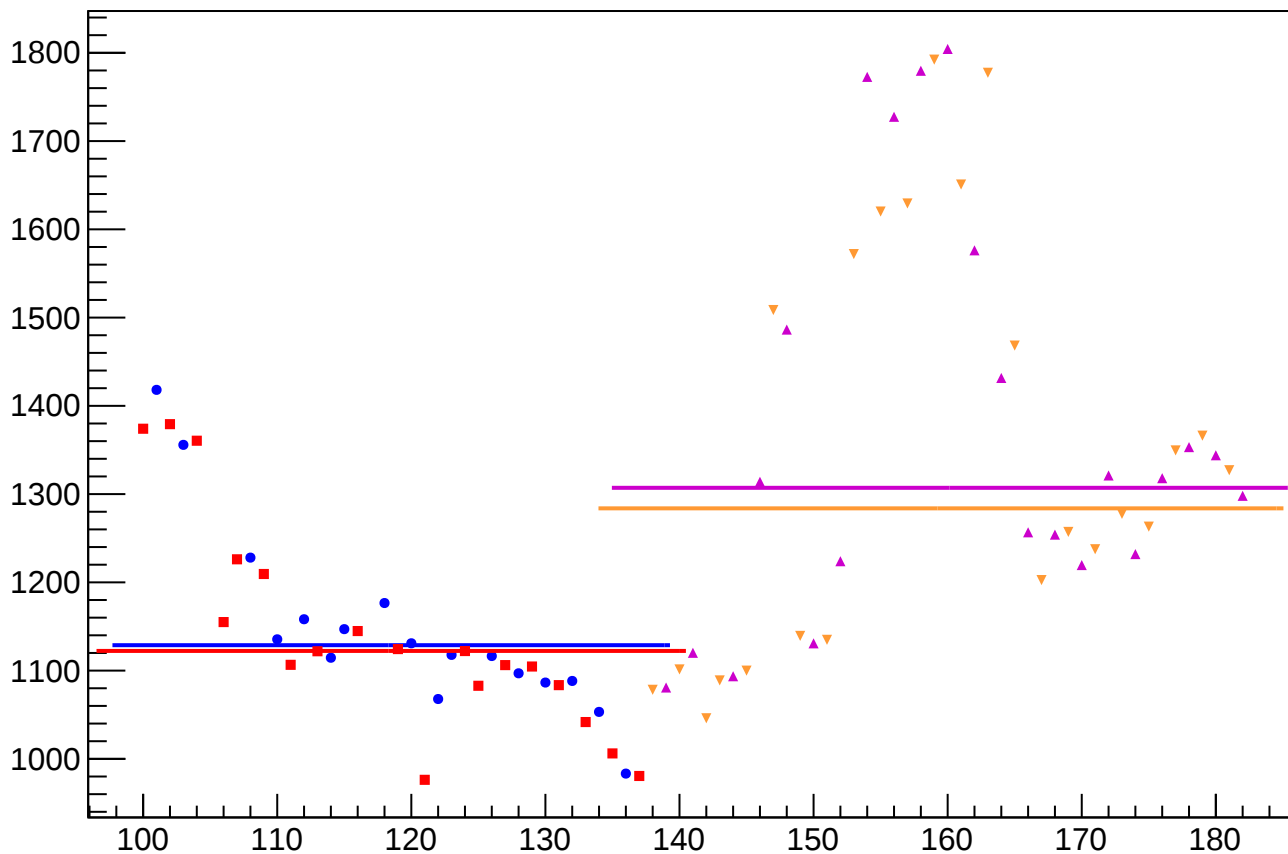
Right: -5.283 ± 0.304 χ^2/NDF : 639.0/35

In: -1.047 ± 0.259 χ^2/NDF : 532.2/38

Out: -1.110 ± 0.251 χ^2/NDF : 459.0/41

All: -1.079 ± 0.180 χ^2/NDF : 991.3/80

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1283.851 $\pm$ 0.221 χ^2 /NDF: 864665.0/22

Right Out: 1122.305 $\pm$ 0.299 χ^2 /NDF: 129605.6/18

Left In: 1307.123 $\pm$ 0.227 χ^2 /NDF: 757931.4/21

Left: 1295.176 $\pm$ 0.158 χ^2 /NDF: 1627984.1/44

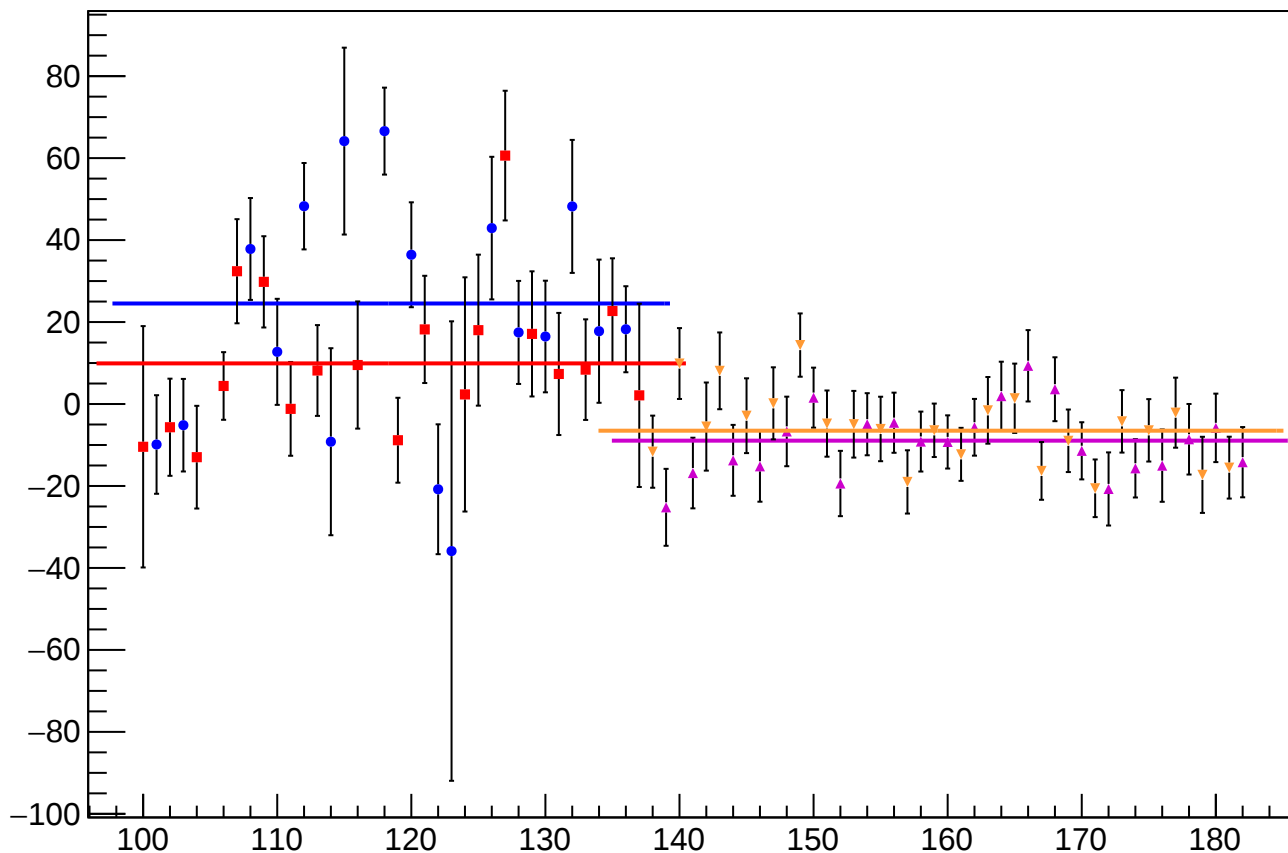
Right: 1125.436 $\pm$ 0.215 χ^2 /NDF: 262911.2/35

In: 1244.680 $\pm$ 0.183 χ^2 /NDF: 1106798.8/38

Out: 1226.639 $\pm$ 0.178 χ^2 /NDF: 1183220.9/41

All: 1235.390 $\pm$ 0.128 χ^2 /NDF: 2295017.3/80

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.527+/-3.324 χ^2 /NDF: 57.7/16

Left Out: -6.511+/-1.660 χ^2 /NDF:28.3/22

Right Out: 9.911+/-3.010 χ^2 /NDF: 28.9/18

Left In: -8.941+/-1.690 χ^2 /NDF:21.8/21

Left: -7.705+/-1.184 χ^2 /NDF: 51.2/44

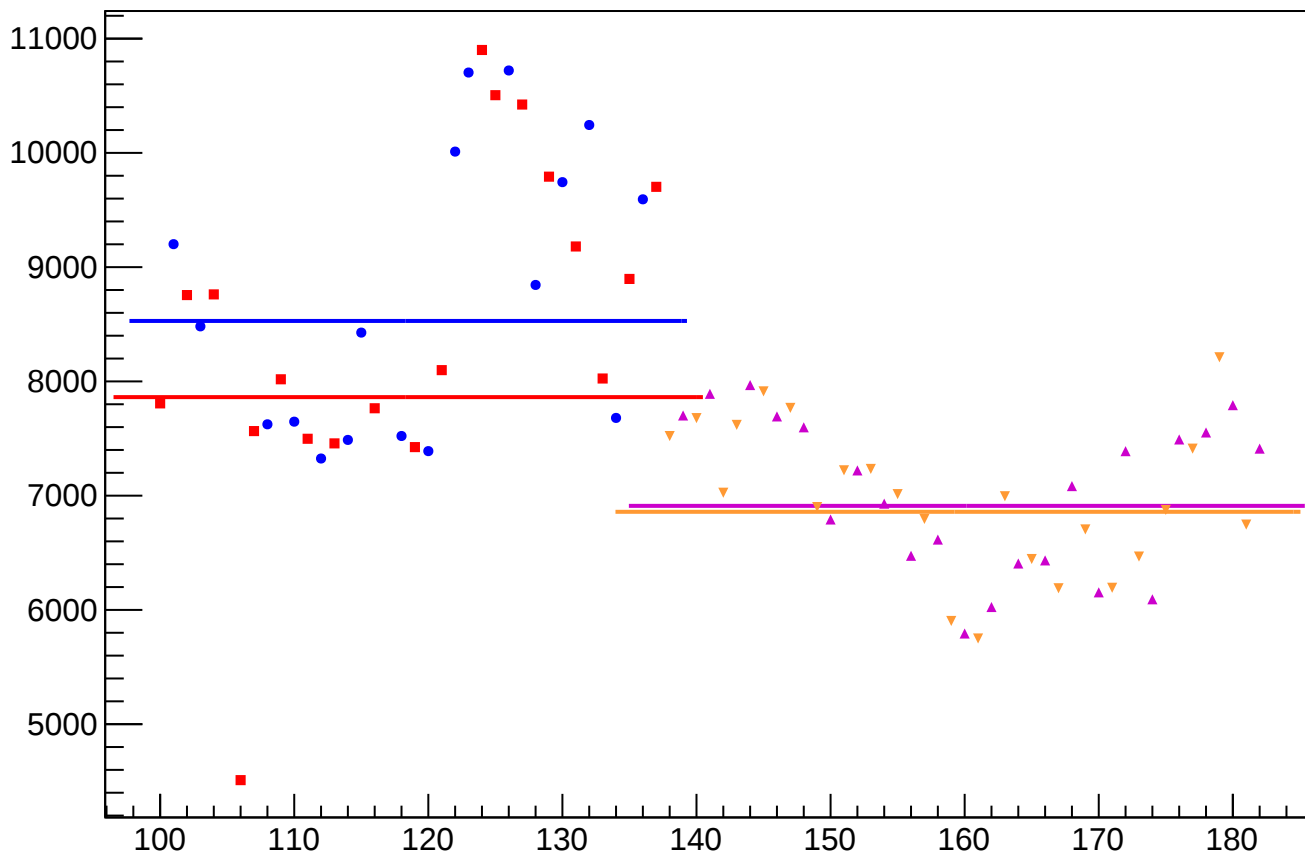
Right: 16.498+/-2.231 χ^2 /NDF: 97.2/35

In: -2.067+/-1.506 χ^2 /NDF:160.1/38

Out: -2.682+/-1.454 χ^2 /NDF:80.0/41

All: -2.385+/-1.046 χ^2 /NDF: 240.2/80

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6858.724 ± 1.174 χ^2/NDF : 300676.0/22

Right Out: 7862.444 ± 2.129 χ^2/NDF : 552825.5/18

Left In: 6910.753 ± 1.195 χ^2/NDF : 324243.3/21

Left: 6884.275 ± 0.837 χ^2/NDF : 625883.9/44

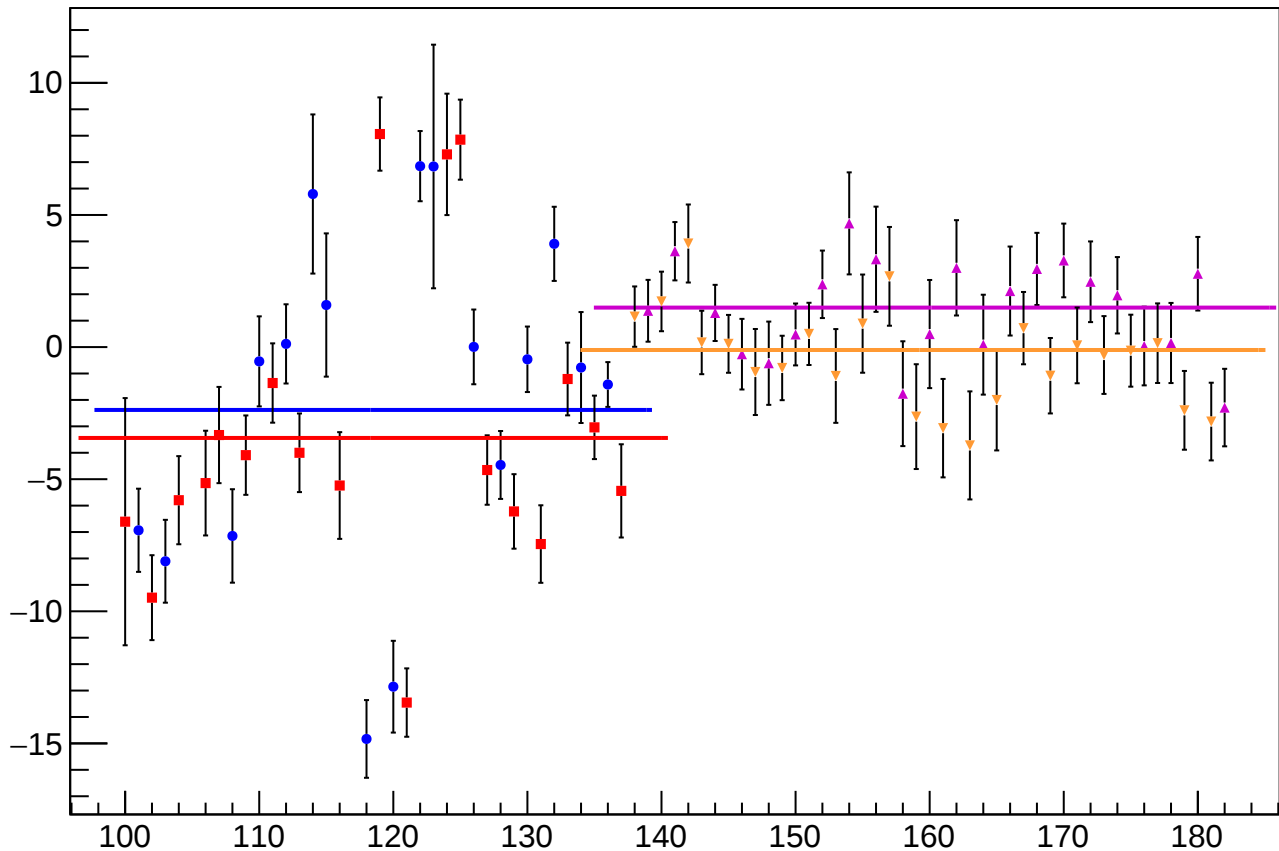
Right: 8162.886 ± 1.578 χ^2/NDF : 804422.1/35

In: 7243.182 ± 1.065 χ^2/NDF : 908375.7/38

Out: 7092.792 ± 1.028 χ^2/NDF : 1023979.6/41

All: 7165.311 ± 0.740 χ^2/NDF : 1942675.9/80

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

Left Out: -0.110 ± 0.300 χ^2/NDF : 30.0/22

Right Out: -3.439 ± 0.359 χ^2/NDF : 242.7/18

Left In: 1.494 ± 0.308 χ^2/NDF : 29.0/21

Left: 0.670 ± 0.215 χ^2/NDF : 72.8/44

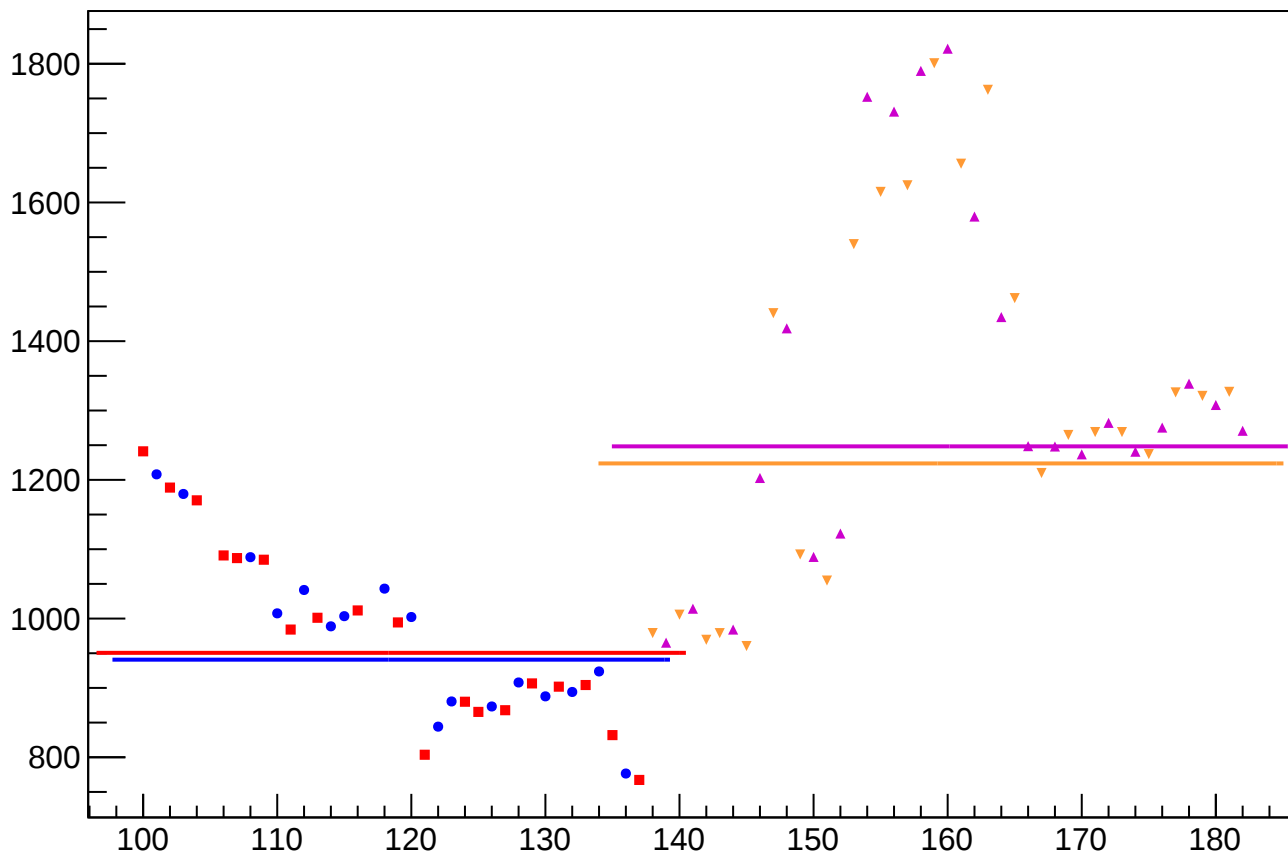
Right: -2.920 ± 0.256 χ^2/NDF : 479.5/35

In: -0.112 ± 0.236 χ^2/NDF : 327.0/38

Out: -1.478 ± 0.230 χ^2/NDF : 323.3/41

All: -0.812 ± 0.165 χ^2/NDF : 667.5/80

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.732 $\pm$ 0.259 χ^2/NDF : 241704.7/16

Left Out: 1223.705 $\pm$ 0.212 χ^2/NDF :1249457.7/22

Right Out: 950.573 $\pm$ 0.254 χ^2/NDF : 220343.0/18

Left In: 1248.320 $\pm$ 0.218 χ^2/NDF :1072689.4/21

Left: 1235.667 $\pm$ 0.152 χ^2/NDF : 2328698.9/44

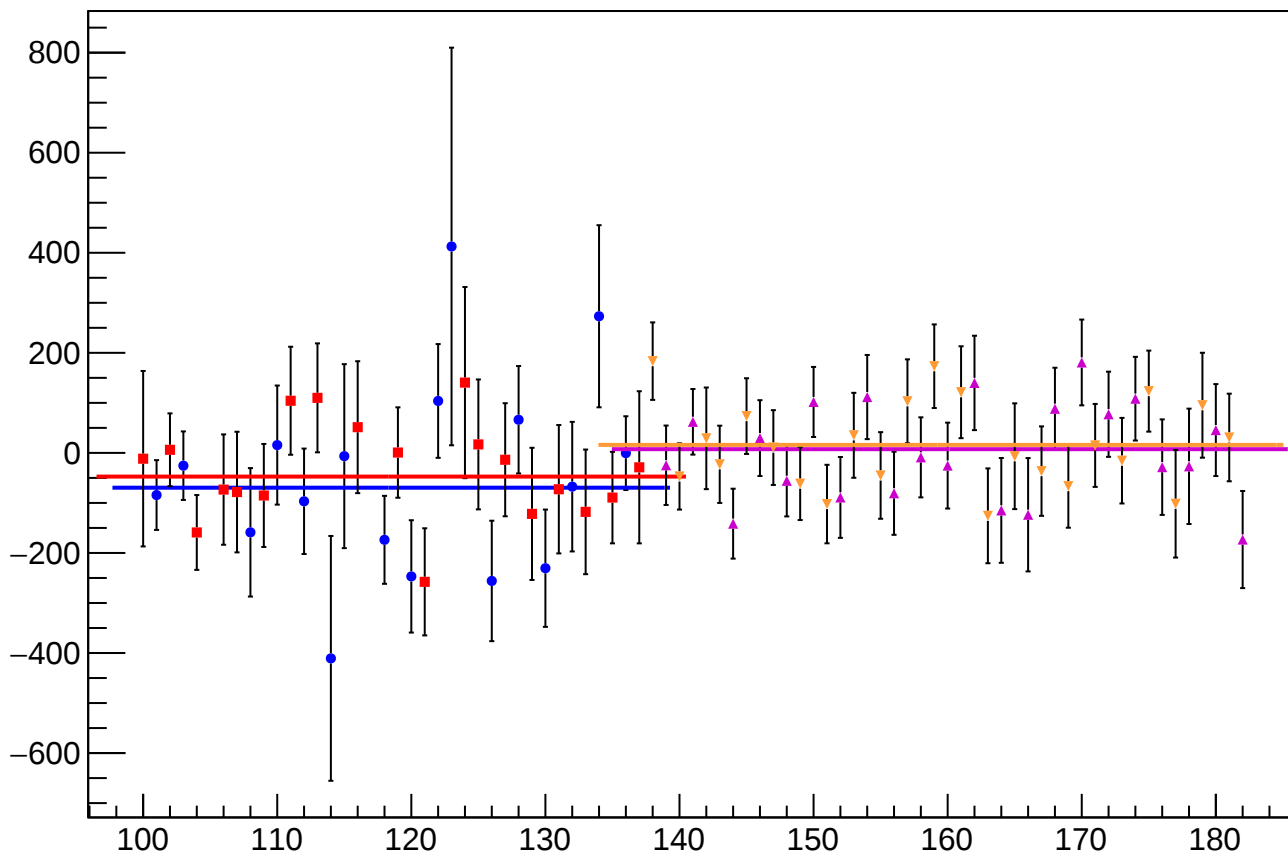
Right: 945.752 $\pm$ 0.181 χ^2/NDF : 462784.3/35

In: 1120.726 $\pm$ 0.167 χ^2/NDF :2140003.1/38

Out: 1111.448 $\pm$ 0.163 χ^2/NDF :2152092.8/41

All: 1115.971 $\pm$ 0.116 χ^2/NDF : 4293681.7/80

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -69.559 $\pm$ 25.981 χ^2/NDF : 21.6/16

Left Out: 16.010 $\pm$ 17.531 χ^2/NDF :23.6/22

Right Out: -47.342 $\pm$ 25.054 χ^2/NDF : 14.0/18

Left In: 7.420 $\pm$ 17.790 χ^2/NDF :28.1/21

Left: 11.778 $\pm$ 12.487 χ^2/NDF : 51.8/44

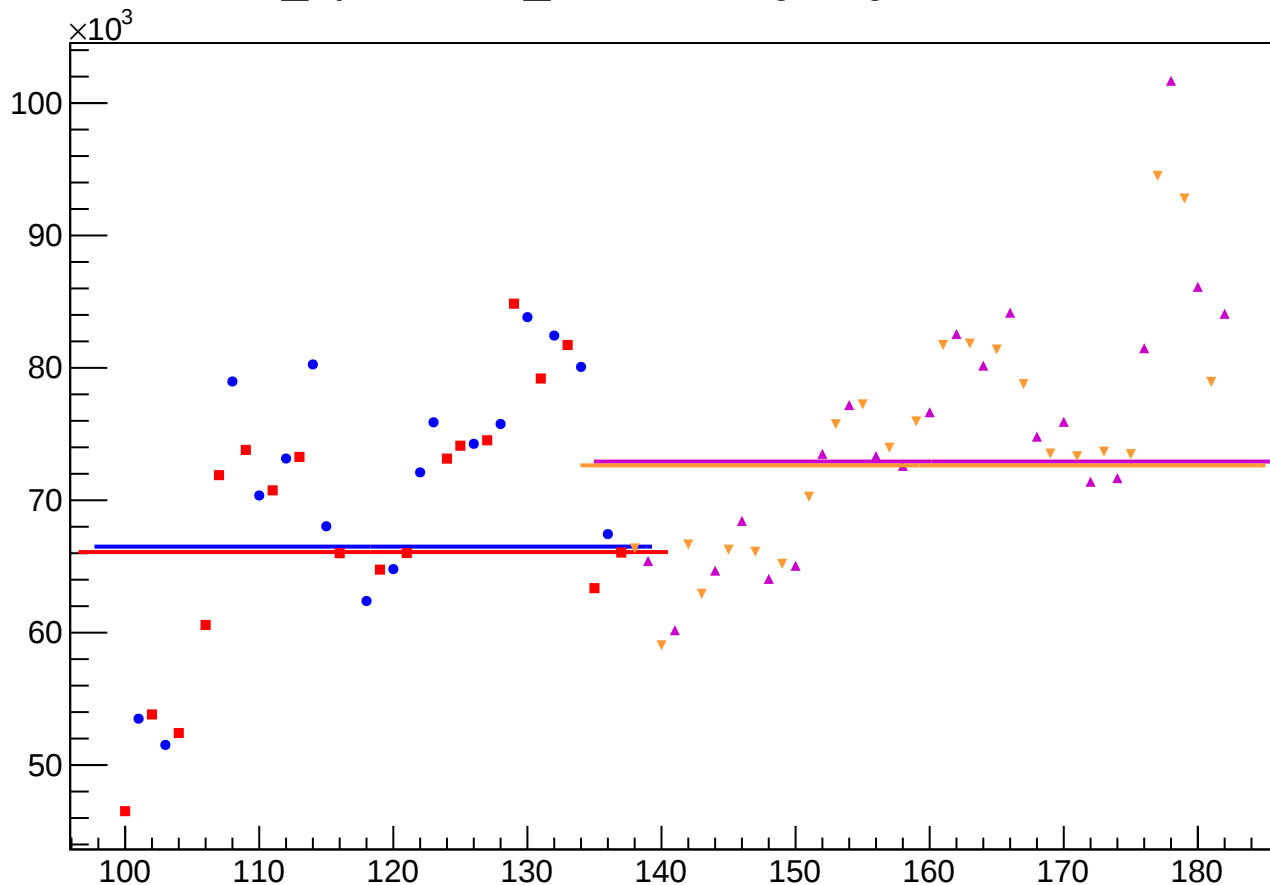
Right: -58.047 $\pm$ 18.035 χ^2/NDF : 36.0/35

In: -17.151 $\pm$ 14.678 χ^2/NDF :55.7/38

Out: -4.813 $\pm$ 14.364 χ^2/NDF :42.0/41

All: -10.848 $\pm$ 10.266 χ^2/NDF : 98.0/80

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66500.038 $\pm$ 18.371 χ^2/NDF : 320048.0/16

Left Out: 72632.320 $\pm$ 12.396 χ^2/NDF : 429613.8/22

Right Out: 66086.098 $\pm$ 17.716 χ^2/NDF : 298277.2/18

Left In: 72924.562 $\pm$ 12.579 χ^2/NDF : 456533.6/21

Left: 72776.300 $\pm$ 8.829 χ^2/NDF : 886421.2/44

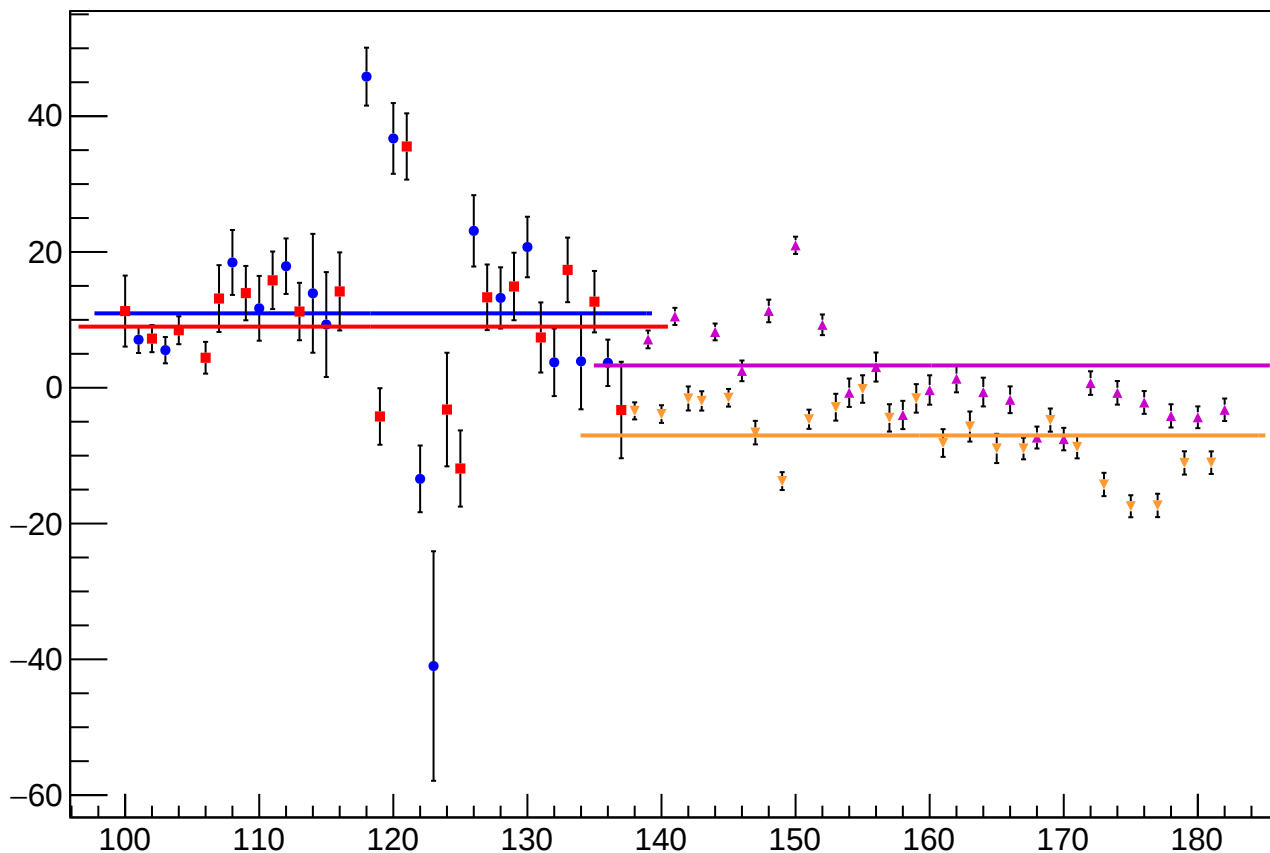
Right: 66285.552 $\pm$ 12.752 χ^2/NDF : 618588.3/35

In: 70873.919 $\pm$ 10.379 χ^2/NDF : 859840.3/38

Out: 70480.688 $\pm$ 10.157 χ^2/NDF : 819552.3/41

All: 70673.043 $\pm$ 7.259 χ^2/NDF : 1680125.8/80

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.959 ± 0.944 $\chi^2/\text{NDF}: 160.6/16$

Left Out: -7.022 ± 0.343 $\chi^2/\text{NDF}: 219.6/22$

Right Out: 9.006 ± 0.867 $\chi^2/\text{NDF}: 75.5/18$

Left In: 3.285 ± 0.350 $\chi^2/\text{NDF}: 481.2/21$

Left: -1.971 ± 0.245 $\chi^2/\text{NDF}: 1144.2/44$

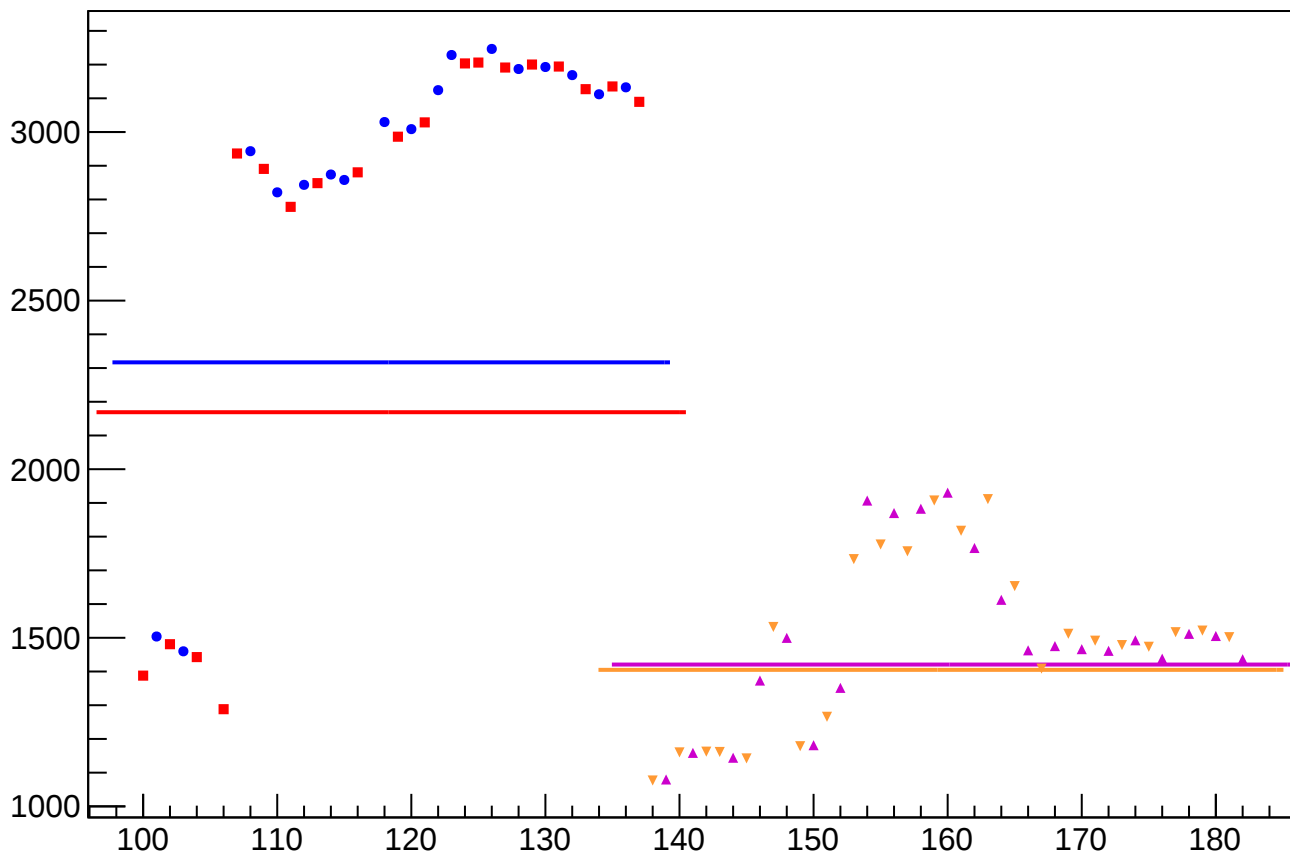
Right: 9.899 ± 0.639 $\chi^2/\text{NDF}: 238.4/35$

In: 4.210 ± 0.328 $\chi^2/\text{NDF}: 699.9/38$

Out: -4.857 ± 0.319 $\chi^2/\text{NDF}: 590.6/41$

All: -0.451 ± 0.228 $\chi^2/\text{NDF}: 1683.9/80$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2316.901 +/- 0.668 χ^2/NDF : 1405097.4/16

Left Out: 1404.906 +/- 0.242 χ^2/NDF : 1029727.8/22

Right Out: 2169.038 +/- 0.613 χ^2/NDF : 1749119.2/18

Left In: 1420.629 +/- 0.247 χ^2/NDF : 905075.4/21

Left: 1412.611 +/- 0.173 χ^2/NDF : 1936867.0/44

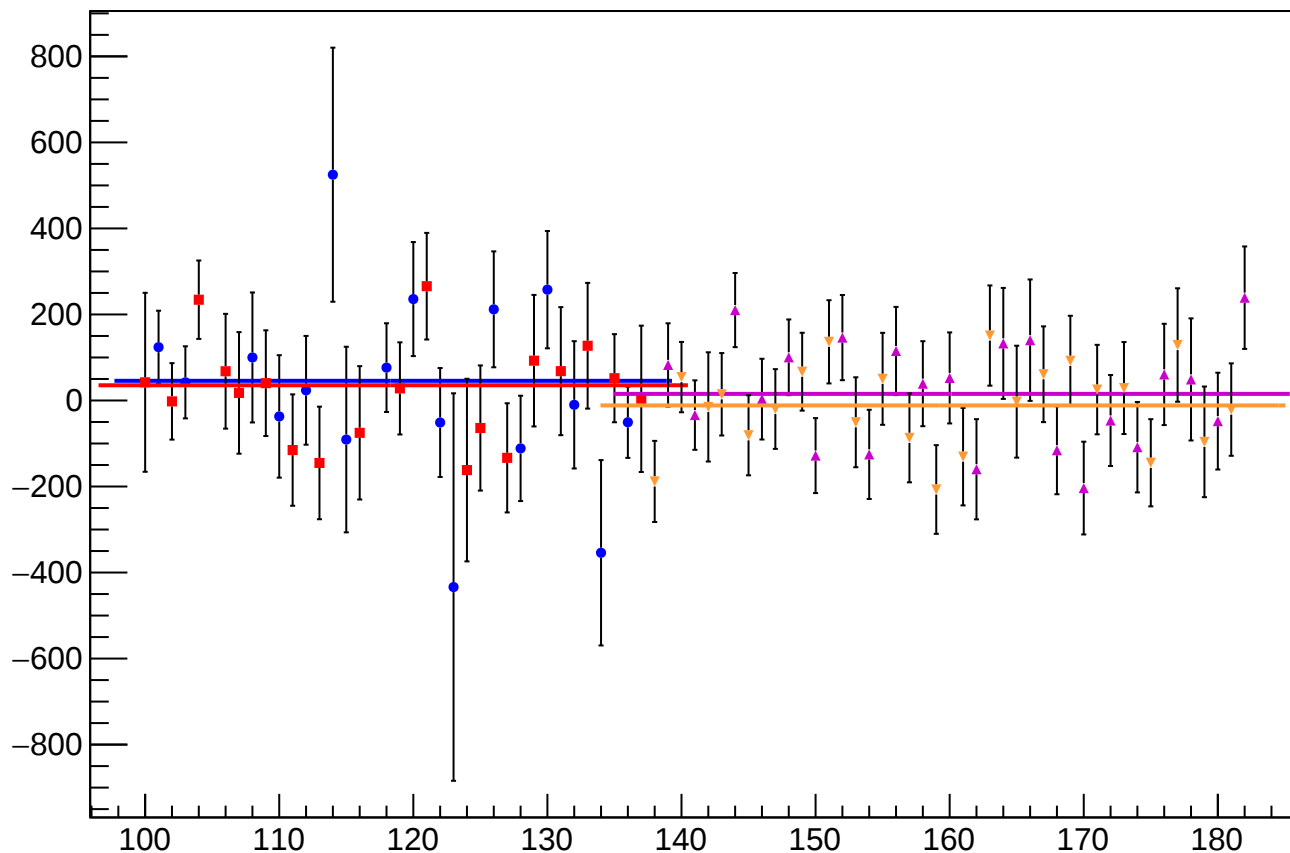
Right: 2236.688 +/- 0.452 χ^2/NDF : 3180824.5/35

In: 1528.644 +/- 0.232 χ^2/NDF : 3895102.7/38

Out: 1508.112 +/- 0.225 χ^2/NDF : 4122230.3/41

All: 1518.088 +/- 0.162 χ^2/NDF : 8021367.2/80

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 45.747 $\pm$ 30.474 χ^2 /NDF: 18.8/16

Left Out: -11.484 $\pm$ 21.694 χ^2 /NDF: 20.5/22

Right Out: 35.391 $\pm$ 29.480 χ^2 /NDF: 16.0/18

Left In: 15.363 $\pm$ 21.993 χ^2 /NDF: 29.7/21

Left: 1.755 $\pm$ 15.445 χ^2 /NDF: 51.0/44

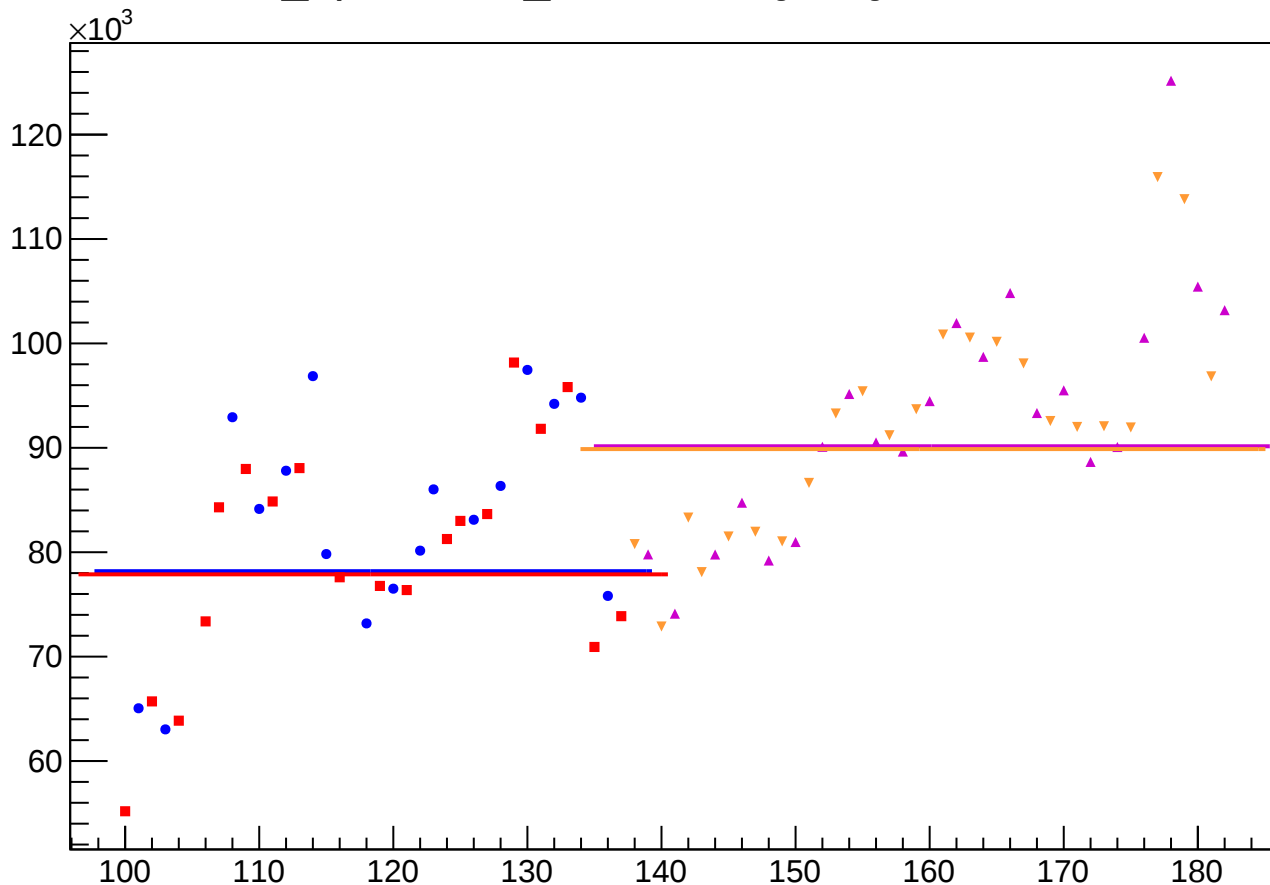
Right: 40.397 $\pm$ 21.188 χ^2 /NDF: 34.8/35

In: 25.769 $\pm$ 17.834 χ^2 /NDF: 49.2/38

Out: 4.982 $\pm$ 17.473 χ^2 /NDF: 38.1/41

All: 15.163 $\pm$ 12.481 χ^2 /NDF: 88.0/80

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78183.588 $\pm$ 21.548 χ^2/NDF : 250278.3/16

Left Out: 89878.810 $\pm$ 15.340 χ^2/NDF : 421744.3/22

Right Out: 77880.644 $\pm$ 20.846 χ^2/NDF : 247268.7/18

Left In: 90148.837 $\pm$ 15.552 χ^2/NDF : 454842.3/21

Left: 90011.973 $\pm$ 10.921 χ^2/NDF : 876739.4/44

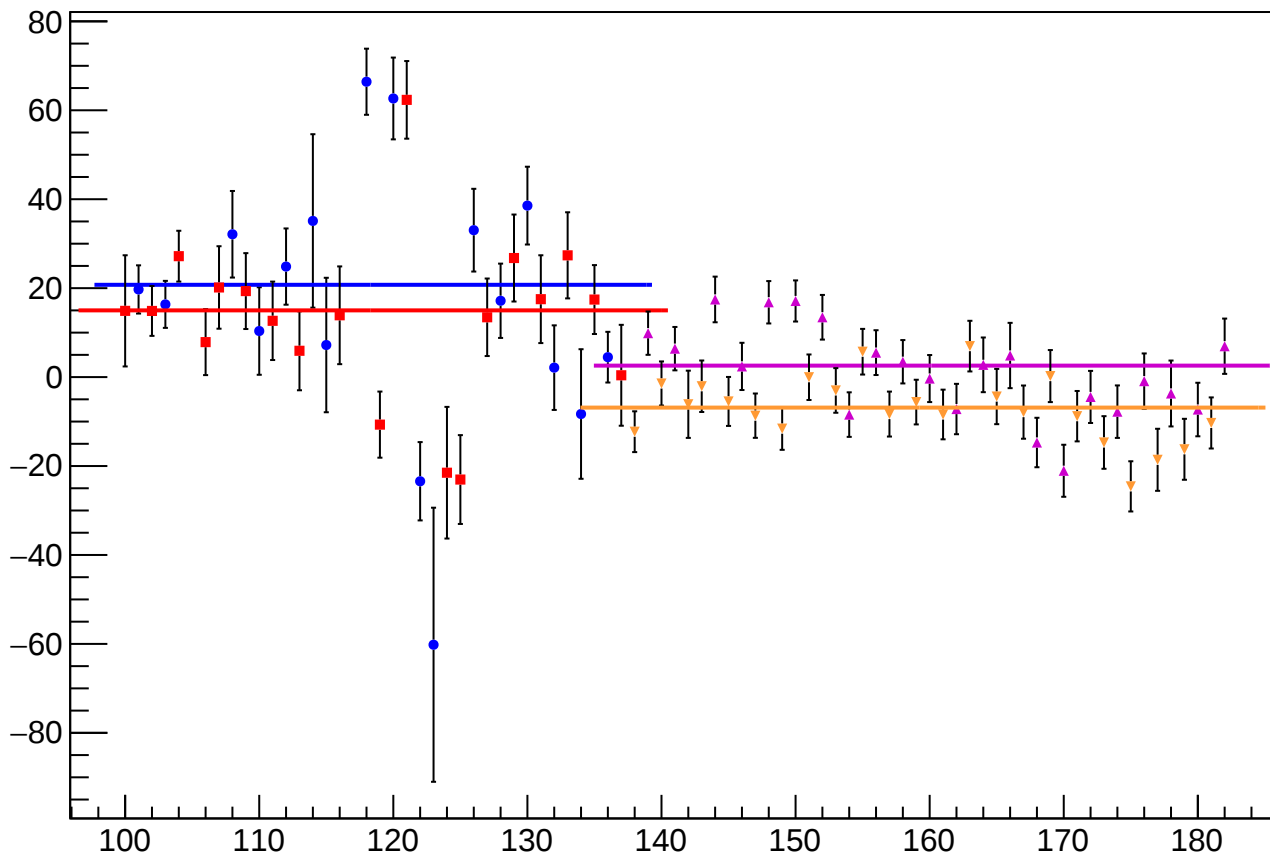
Right: 78027.099 $\pm$ 14.982 χ^2/NDF : 497649.1/35

In: 86050.919 $\pm$ 12.610 χ^2/NDF : 907858.2/38

Out: 85663.997 $\pm$ 12.355 χ^2/NDF : 883919.8/41

All: 85853.503 $\pm$ 8.825 χ^2/NDF : 1792258.4/86

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.754 $\pm$ 2.039 χ^2 /NDF: 117.4/16

Left Out: -6.858 $\pm$ 1.150 χ^2 /NDF:37.4/22

Right Out: 15.004 $\pm$ 1.958 χ^2 /NDF: 74.0/18

Left In: 2.580 $\pm$ 1.164 χ^2 /NDF:78.1/21

Left: -2.197 $\pm$ 0.818 χ^2 /NDF: 148.7/44

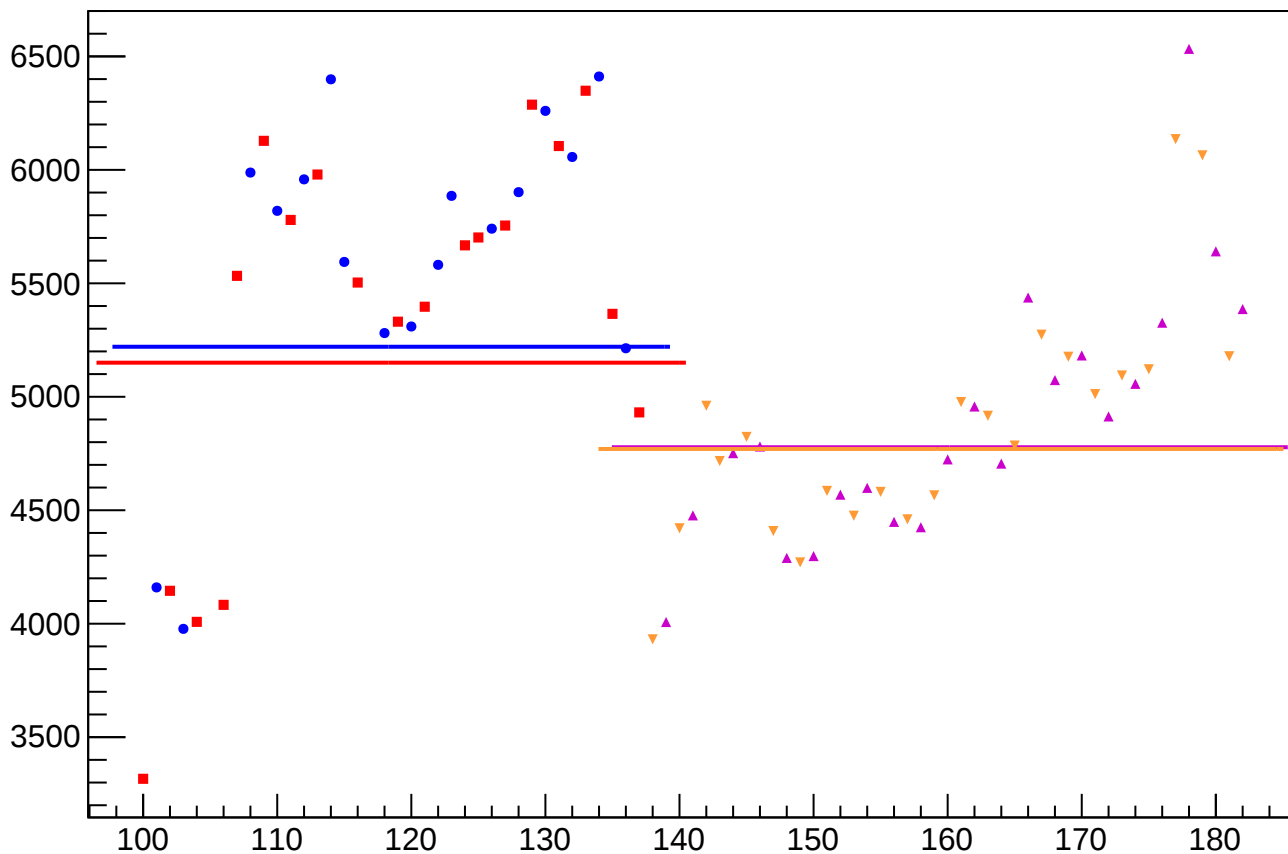
Right: 17.763 $\pm$ 1.412 χ^2 /NDF: 195.5/35

In: 7.048 $\pm$ 1.011 χ^2 /NDF:255.4/38

Out: -1.251 $\pm$ 0.991 χ^2 /NDF:204.2/41

All: 2.818 $\pm$ 0.708 χ^2 /NDF: 493.9/80

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5220.495 ± 1.441 $\chi^2/\text{NDF}: 311533.7/16$

Left Out: 4770.066 ± 0.813 $\chi^2/\text{NDF}: 337240.5/22$

Right Out: 5150.309 ± 1.384 $\chi^2/\text{NDF}: 387575.3/18$

Left In: 4777.730 ± 0.823 $\chi^2/\text{NDF}: 352680.7/21$

Left: 4773.851 ± 0.578 $\chi^2/\text{NDF}: 689965.0/44$

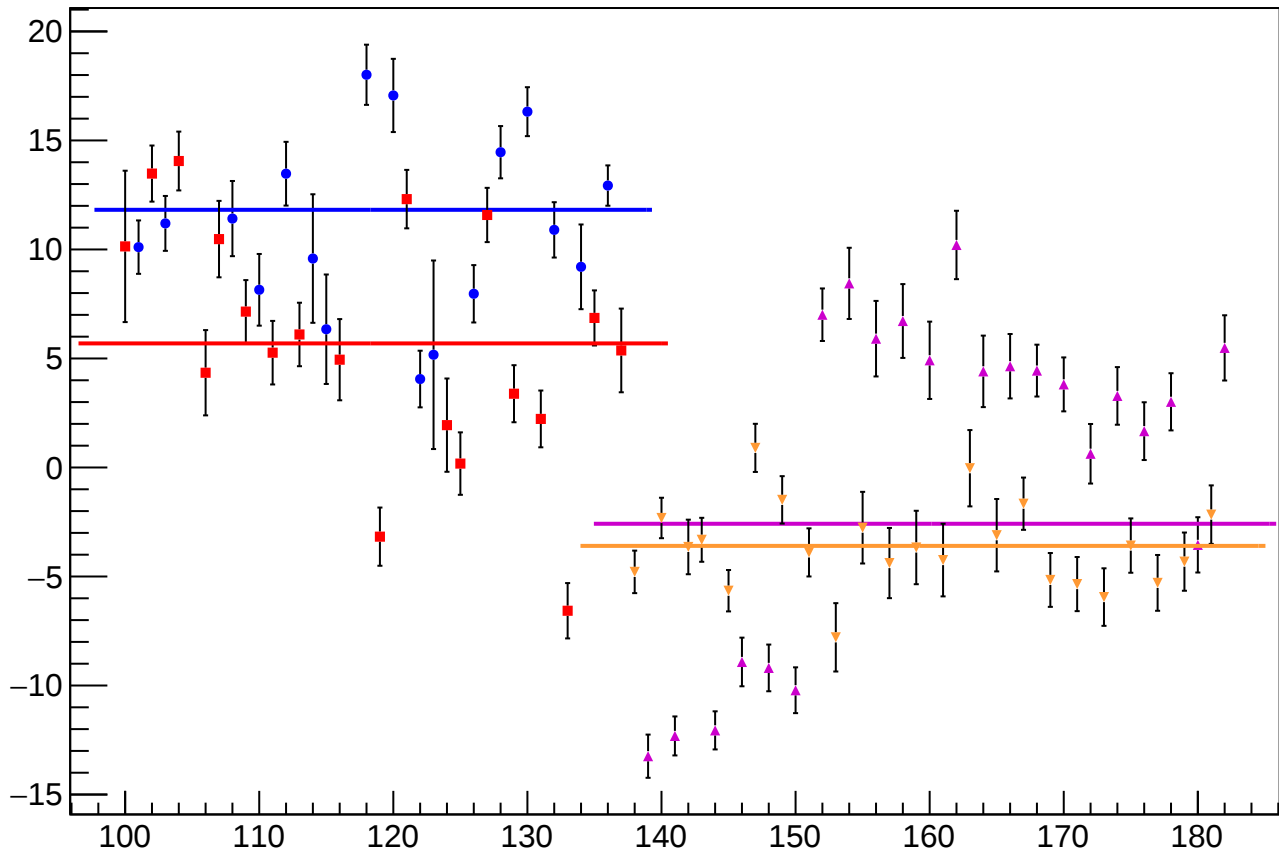
Right: 5183.979 ± 0.998 $\chi^2/\text{NDF}: 700342.4/35$

In: 4886.585 ± 0.715 $\chi^2/\text{NDF}: 735366.0/38$

Out: 4867.596 ± 0.701 $\chi^2/\text{NDF}: 780922.6/41$

All: 4876.906 ± 0.500 $\chi^2/\text{NDF}: 1516648.4/80$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.819+/-0.345 χ^2/NDF : 115.1/16

Left Out: -3.596+/-0.259 χ^2/NDF : 53.2/22

Right Out: 5.691+/-0.339 χ^2/NDF : 299.2/18

Left In: -2.582+/-0.266 χ^2/NDF : 909.4/21

Left: -3.103+/-0.185 χ^2/NDF : 970.1/44

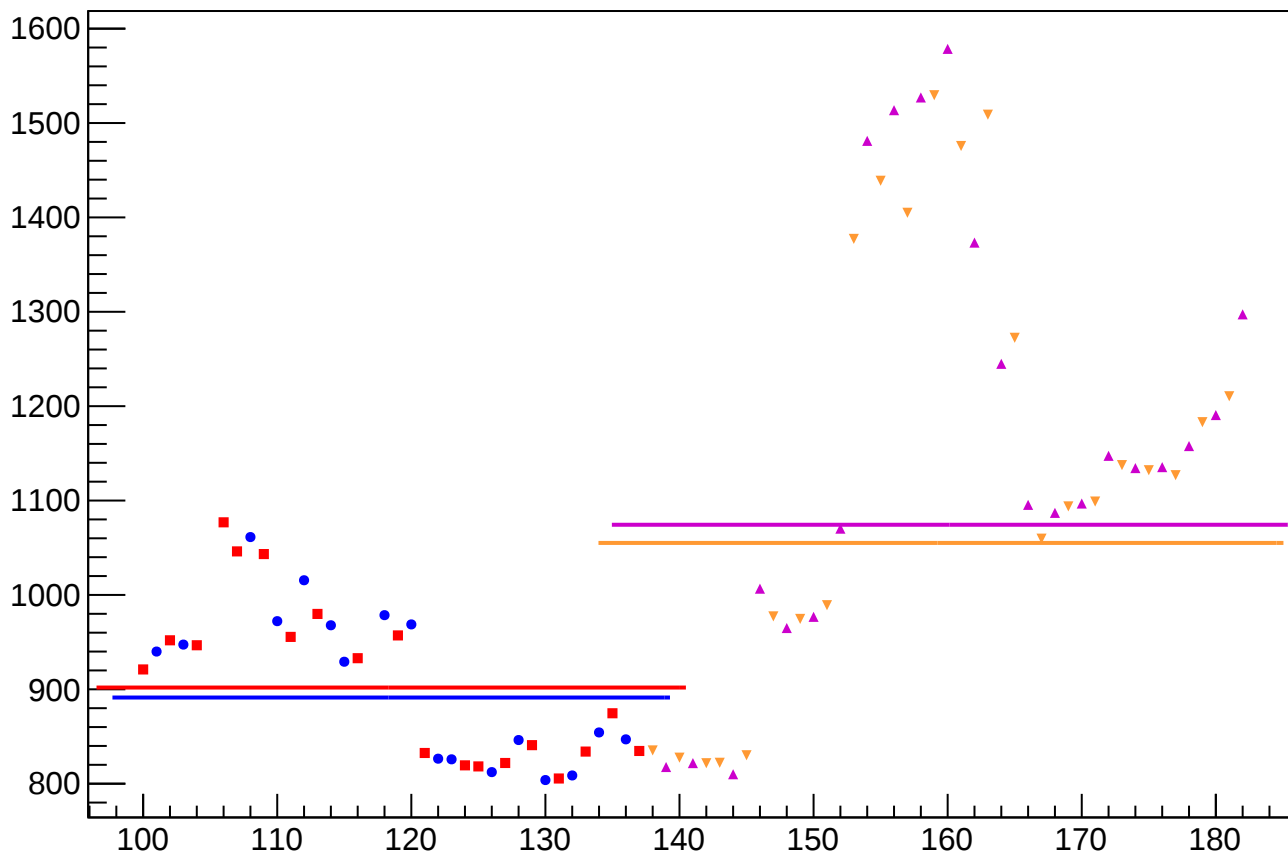
Right: 8.701+/-0.242 χ^2/NDF : 574.6/35

In: 2.780+/-0.211 χ^2/NDF : 2117.0/38

Out: -0.180+/-0.206 χ^2/NDF : 826.4/41

All: 1.265+/-0.147 χ^2/NDF : 3044.6/80

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.299+/-0.244 χ^2/NDF : 101327.8/16

Left Out: 1055.103+/-0.183 χ^2/NDF :1353045.5/22

Right Out: 901.879+/-0.240 χ^2/NDF : 114242.3/18

Left In: 1074.350+/-0.188 χ^2/NDF :1258473.5/21

Left: 1064.463+/-0.131 χ^2/NDF : 2616904.5/44

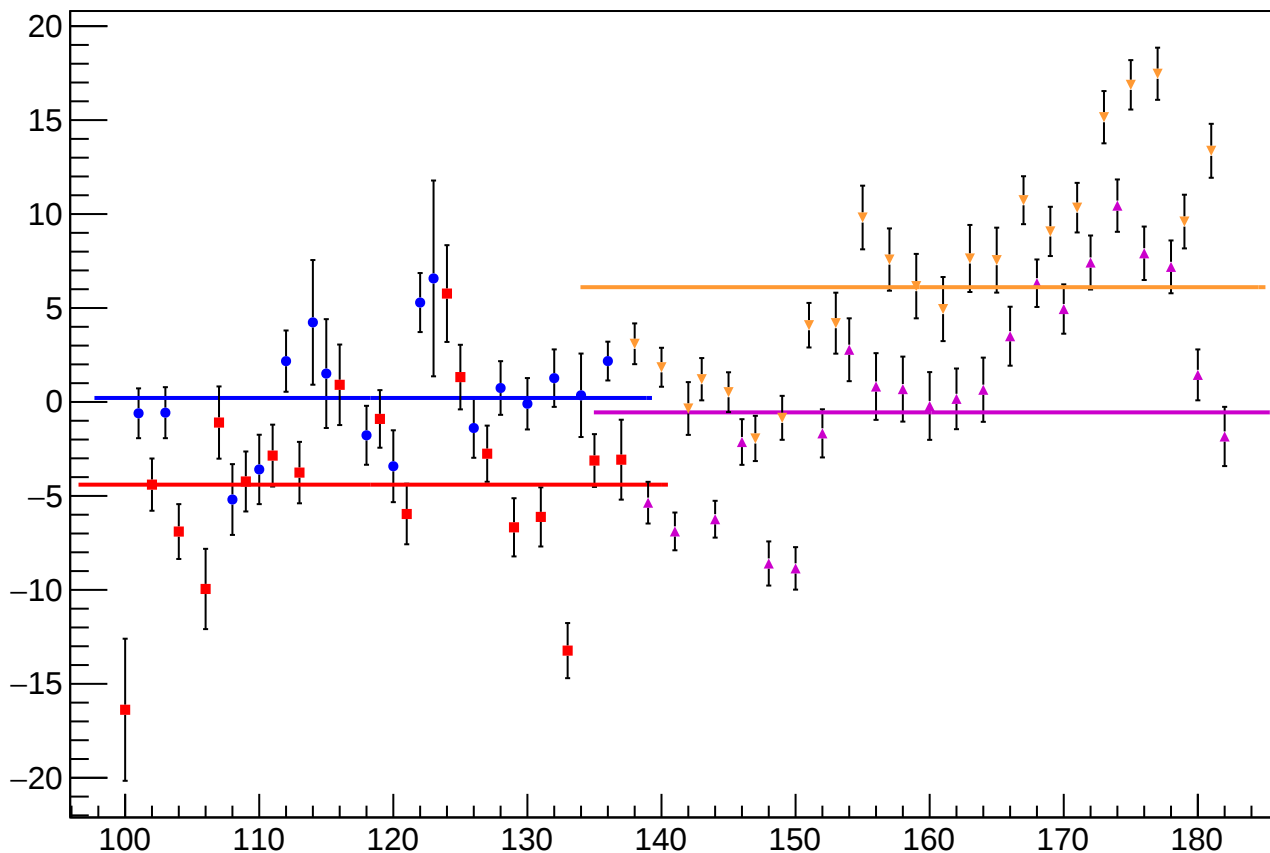
Right: 896.682+/-0.171 χ^2/NDF : 216526.2/35

In: 1006.191+/-0.149 χ^2/NDF :1712864.5/38

Out: 998.751+/-0.145 χ^2/NDF :1725402.4/41

All: 1002.383+/-0.104 χ^2/NDF : 3439544.6/80

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.396 χ^2/NDF : 38.8/16

Left Out: 6.108 ± 0.279 χ^2/NDF : 420.7/22

Right Out: -4.400 ± 0.387 χ^2/NDF : 104.8/18

Left In: -0.554 ± 0.286 χ^2/NDF : 416.8/21

Left: 2.863 ± 0.199 χ^2/NDF : 1116.2/44

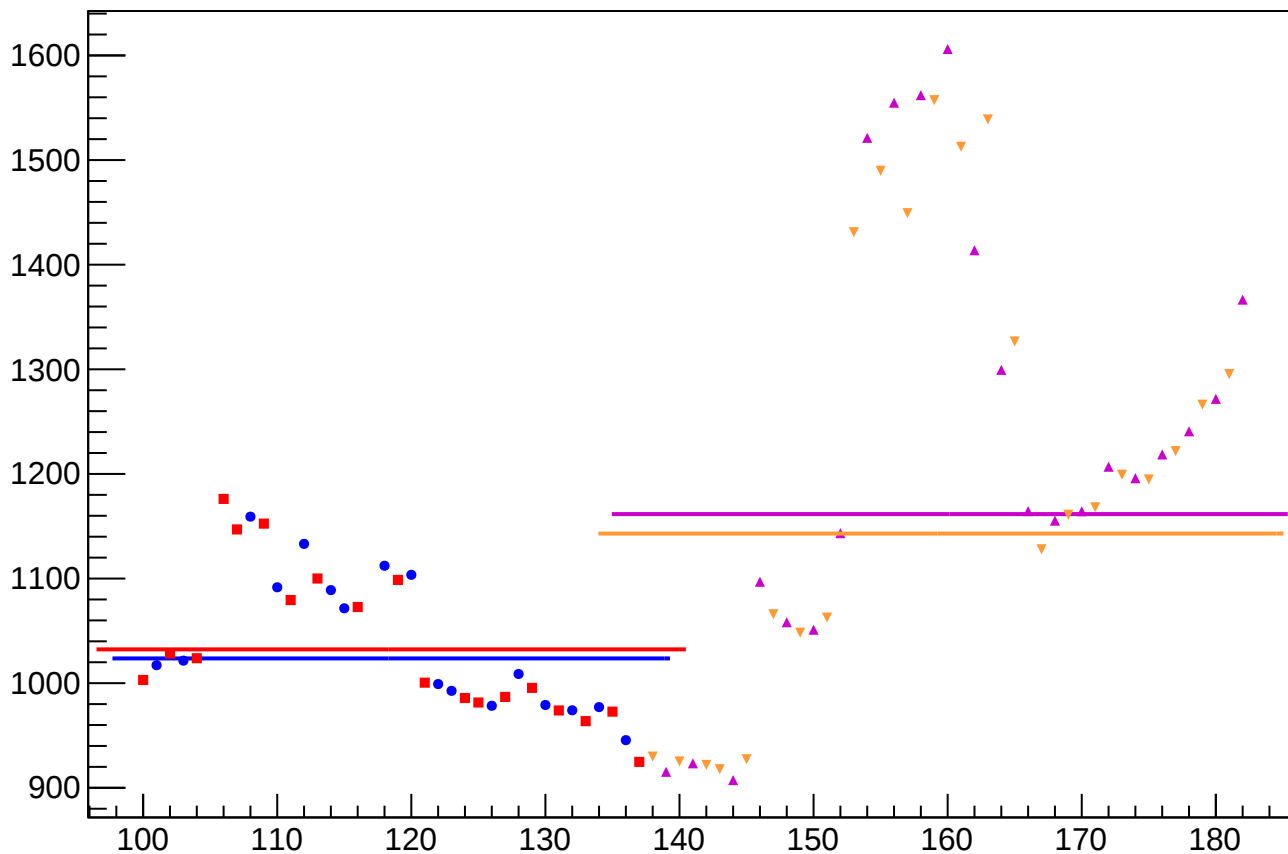
Right: -2.142 ± 0.277 χ^2/NDF : 212.9/35

In: -0.291 ± 0.232 χ^2/NDF : 458.0/38

Out: 2.527 ± 0.226 χ^2/NDF : 1010.5/41

All: 1.152 ± 0.162 χ^2/NDF : 1544.2/80

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.643 $\pm$ 0.280 χ^2 /NDF: 52282.5/16

Left Out: 1142.993 $\pm$ 0.197 χ^2 /NDF: 1007190.0/22

Right Out: 1032.299 $\pm$ 0.274 χ^2 /NDF: 59262.4/18

Left In: 1161.622 $\pm$ 0.202 χ^2 /NDF: 927639.3/21

Left: 1152.069 $\pm$ 0.141 χ^2 /NDF: 1939186.6/44

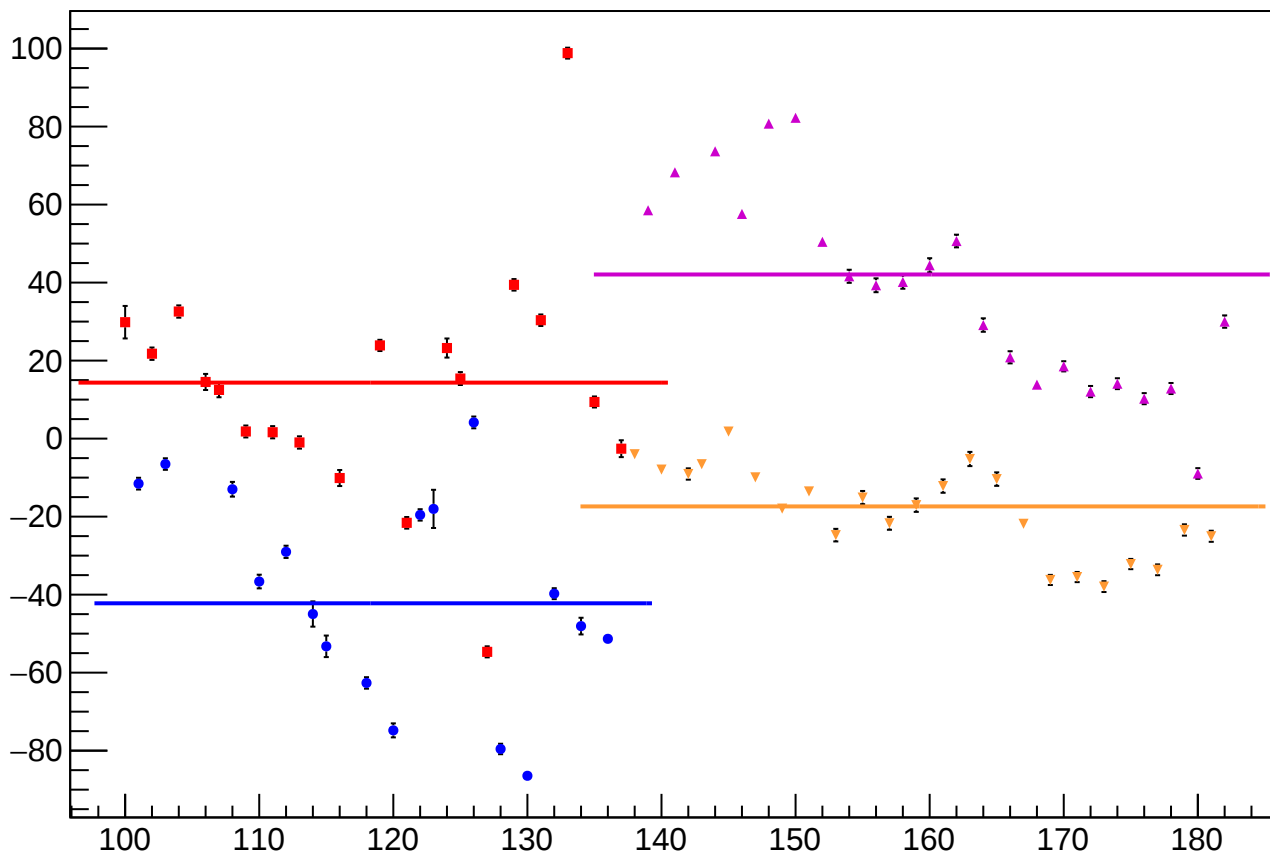
Right: 1028.062 $\pm$ 0.196 χ^2 /NDF: 112033.6/35

In: 1114.314 $\pm$ 0.164 χ^2 /NDF: 1139743.4/38

Out: 1105.267 $\pm$ 0.160 χ^2 /NDF: 1174073.0/41

All: 1109.682 $\pm$ 0.114 χ^2 /NDF: 2315378.2/80

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.222 ± 0.388 $\chi^2/\text{NDF}: 5097.2/16$

Left Out: -17.385 ± 0.282 $\chi^2/\text{NDF}: 1744.3/22$

Right Out: 14.353 ± 0.379 $\chi^2/\text{NDF}: 7667.7/18$

Left In: 42.079 ± 0.291 $\chi^2/\text{NDF}: 8332.3/21$

Left: 11.467 ± 0.203 $\chi^2/\text{NDF}: 31595.8/44$

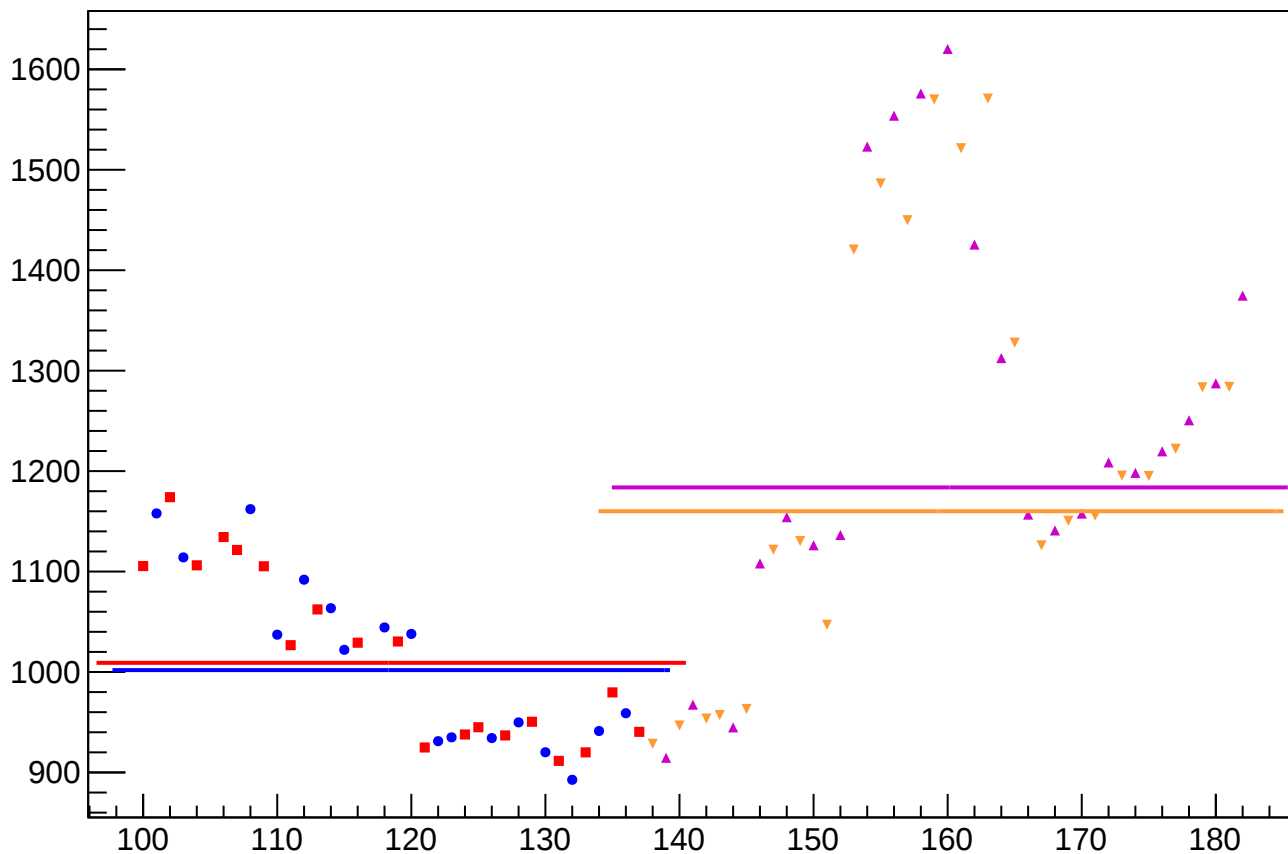
Right: -13.294 ± 0.271 $\chi^2/\text{NDF}: 23642.7/35$

In: 11.739 ± 0.233 $\chi^2/\text{NDF}: 43665.5/38$

Out: -6.064 ± 0.226 $\chi^2/\text{NDF}: 13918.6/41$

All: 2.596 ± 0.162 $\chi^2/\text{NDF}: 60590.4/80$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.897 $\pm$ 0.274 χ^2 /NDF: 95203.3/16

Left Out: 1160.057 $\pm$ 0.200 χ^2 /NDF: 905322.6/22

Right Out: 1009.139 $\pm$ 0.268 χ^2 /NDF: 95040.9/18

Left In: 1183.759 $\pm$ 0.206 χ^2 /NDF: 818861.8/21

Left: 1171.558 $\pm$ 0.143 χ^2 /NDF: 1731022.4/44

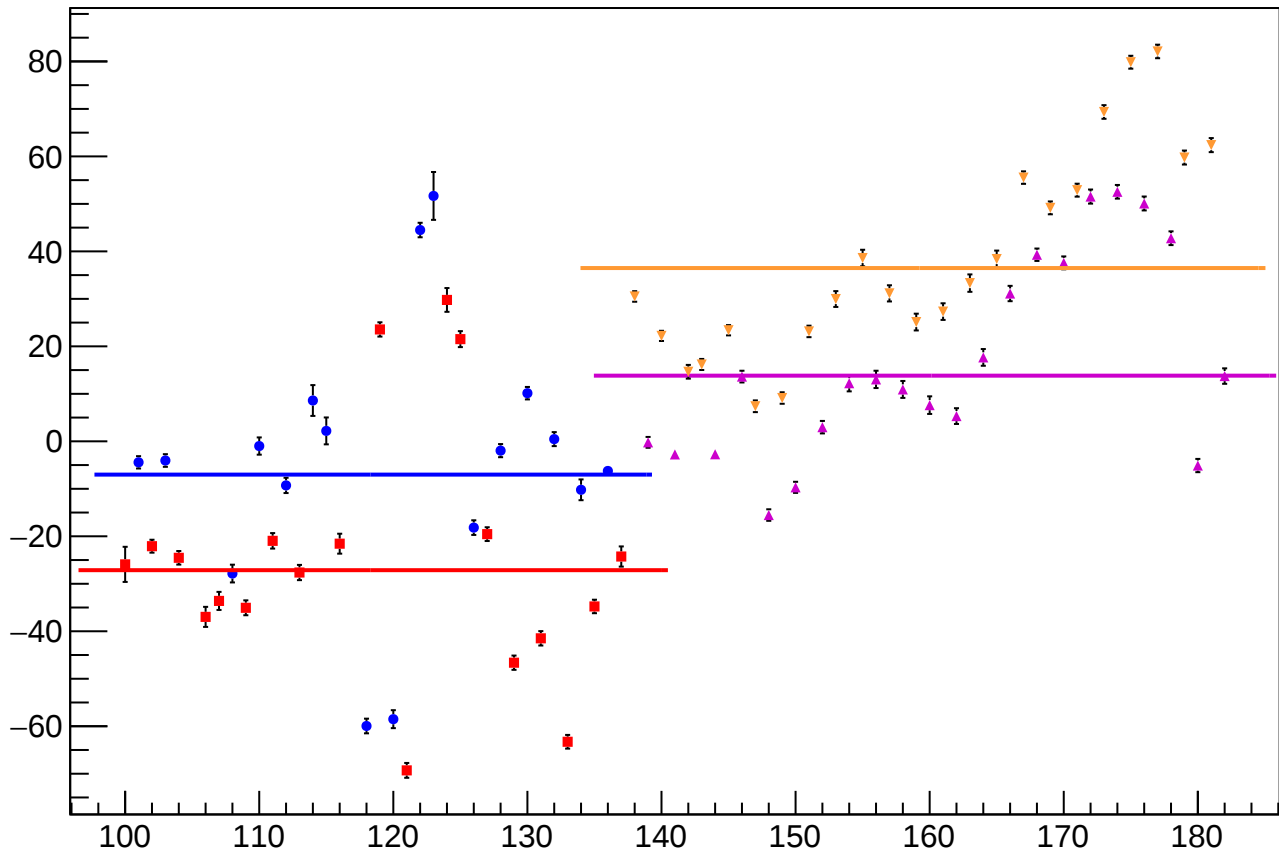
Right: 1005.600 $\pm$ 0.192 χ^2 /NDF: 190600.7/35

In: 1118.308 $\pm$ 0.165 χ^2 /NDF: 1195500.4/38

Out: 1106.224 $\pm$ 0.160 χ^2 /NDF: 1204159.9/41

All: 1112.103 $\pm$ 0.115 χ^2 /NDF: 2402430.2/80

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -7.011 ± 0.389 χ^2/NDF : 3634.7/16

Left Out: 36.488 ± 0.287 χ^2/NDF : 5726.9/22

Right Out: -27.137 ± 0.380 χ^2/NDF : 4257.1/18

Left In: 13.827 ± 0.295 χ^2/NDF : 5143.6/21

Left: 25.453 ± 0.206 χ^2/NDF : 13907.9/44

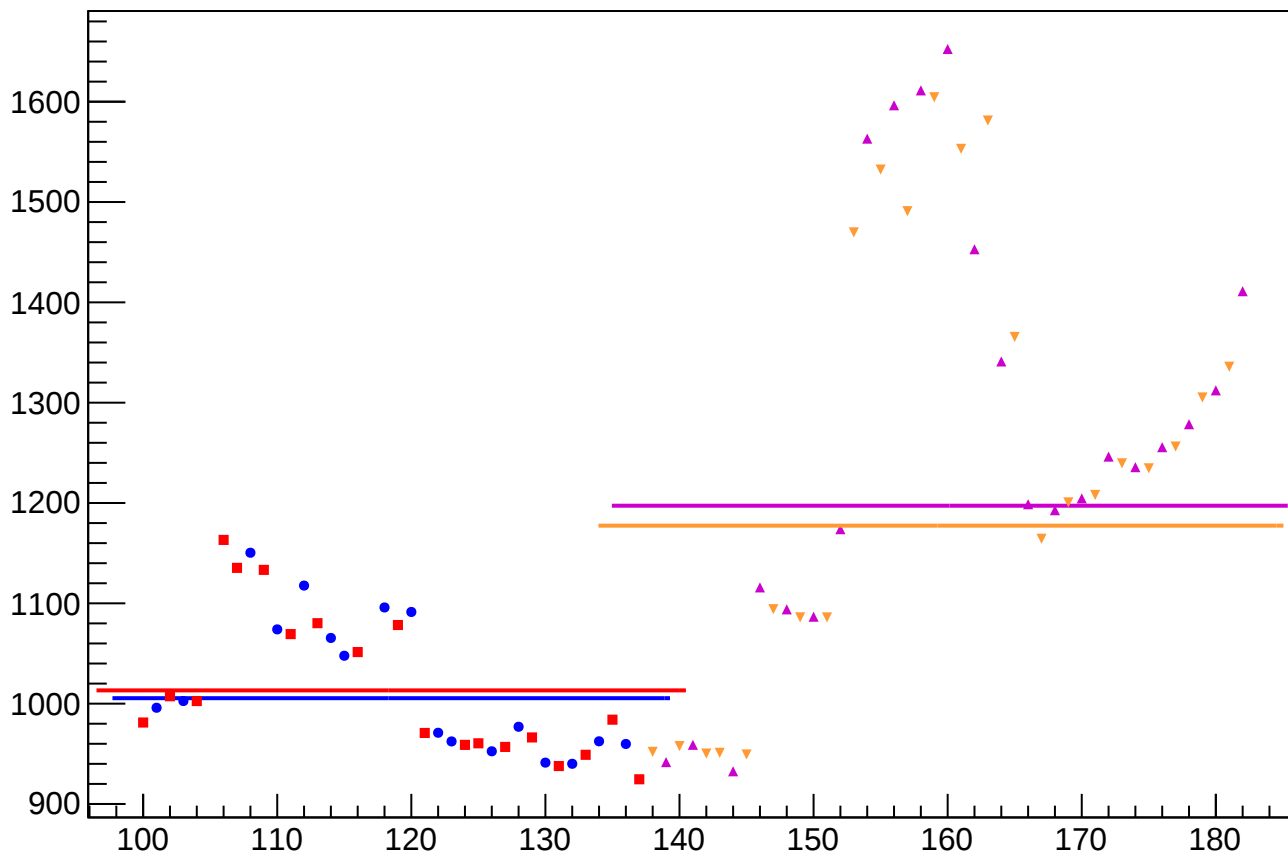
Right: -17.293 ± 0.272 χ^2/NDF : 9261.8/35

In: 6.226 ± 0.235 χ^2/NDF : 10604.2/38

Out: 13.406 ± 0.229 χ^2/NDF : 27821.5/41

All: 9.904 ± 0.164 χ^2/NDF : 38905.0/80

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.453 $\pm$ 0.275 χ^2 /NDF: 54493.5/16

Left Out: 1177.429 $\pm$ 0.203 χ^2 /NDF:1005044.5/22

Right Out: 1013.228 $\pm$ 0.269 χ^2 /NDF: 63189.9/18

Left In: 1197.295 $\pm$ 0.208 χ^2 /NDF:921640.7/21

Left: 1187.103 $\pm$ 0.145 χ^2 /NDF: 1931353.2/44

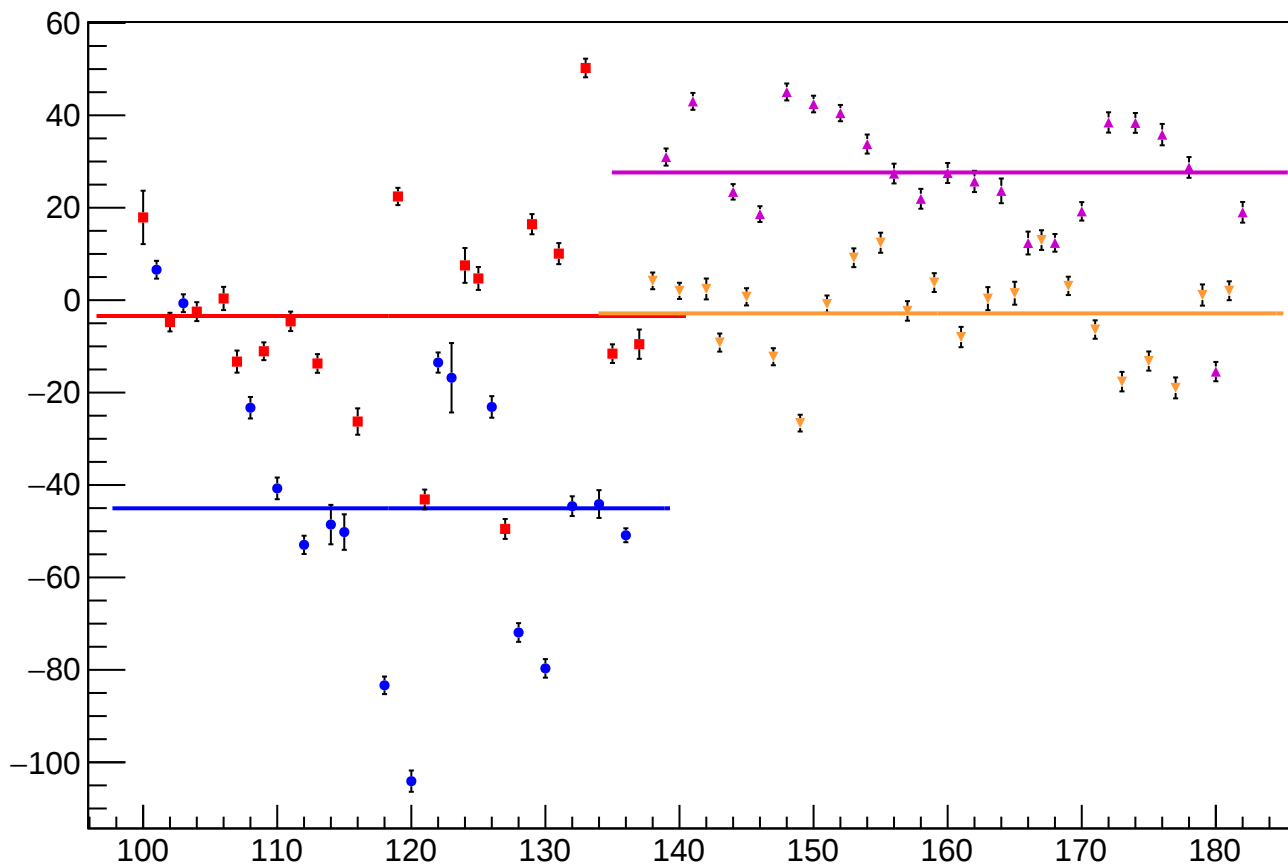
Right: 1009.425 $\pm$ 0.192 χ^2 /NDF: 118092.3/35

In: 1127.314 $\pm$ 0.166 χ^2 /NDF:1285670.2/38

Out: 1117.859 $\pm$ 0.162 χ^2 /NDF:1305841.1/41

All: 1122.470 $\pm$ 0.116 χ^2 /NDF: 2593173.4/80

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.043 ± 0.541 χ^2/NDF : 3223.5/16

Left Out: -2.860 ± 0.426 χ^2/NDF : 547.0/22

Right Out: -3.429 ± 0.523 χ^2/NDF : 2001.9/18

Left In: 27.632 ± 0.432 χ^2/NDF : 959.2/21

Left: 12.157 ± 0.303 χ^2/NDF : 4033.4/44

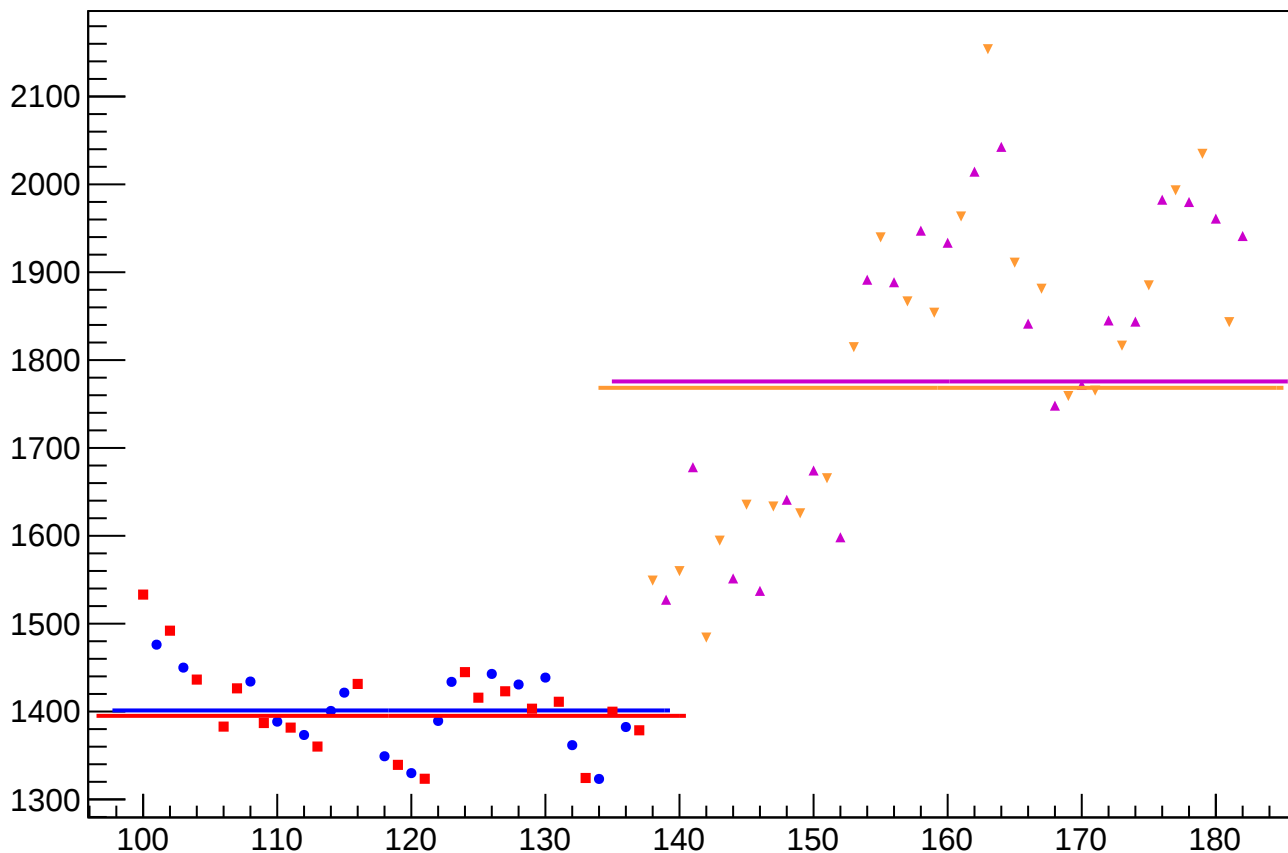
Right: -23.534 ± 0.376 χ^2/NDF : 8287.8/35

In: -0.697 ± 0.338 χ^2/NDF : 15209.7/38

Out: -3.087 ± 0.330 χ^2/NDF : 2549.6/41

All: -1.919 ± 0.236 χ^2/NDF : 17784.9/80

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.235 $\pm$ 0.382 χ^2 /NDF: 12839.4/16

Left Out: 1768.435 $\pm$ 0.301 χ^2 /NDF: 298497.2/22

Right Out: 1395.100 $\pm$ 0.370 χ^2 /NDF: 15523.2/18

Left In: 1775.697 $\pm$ 0.306 χ^2 /NDF: 295889.6/21

Left: 1772.012 $\pm$ 0.214 χ^2 /NDF: 594673.6/44

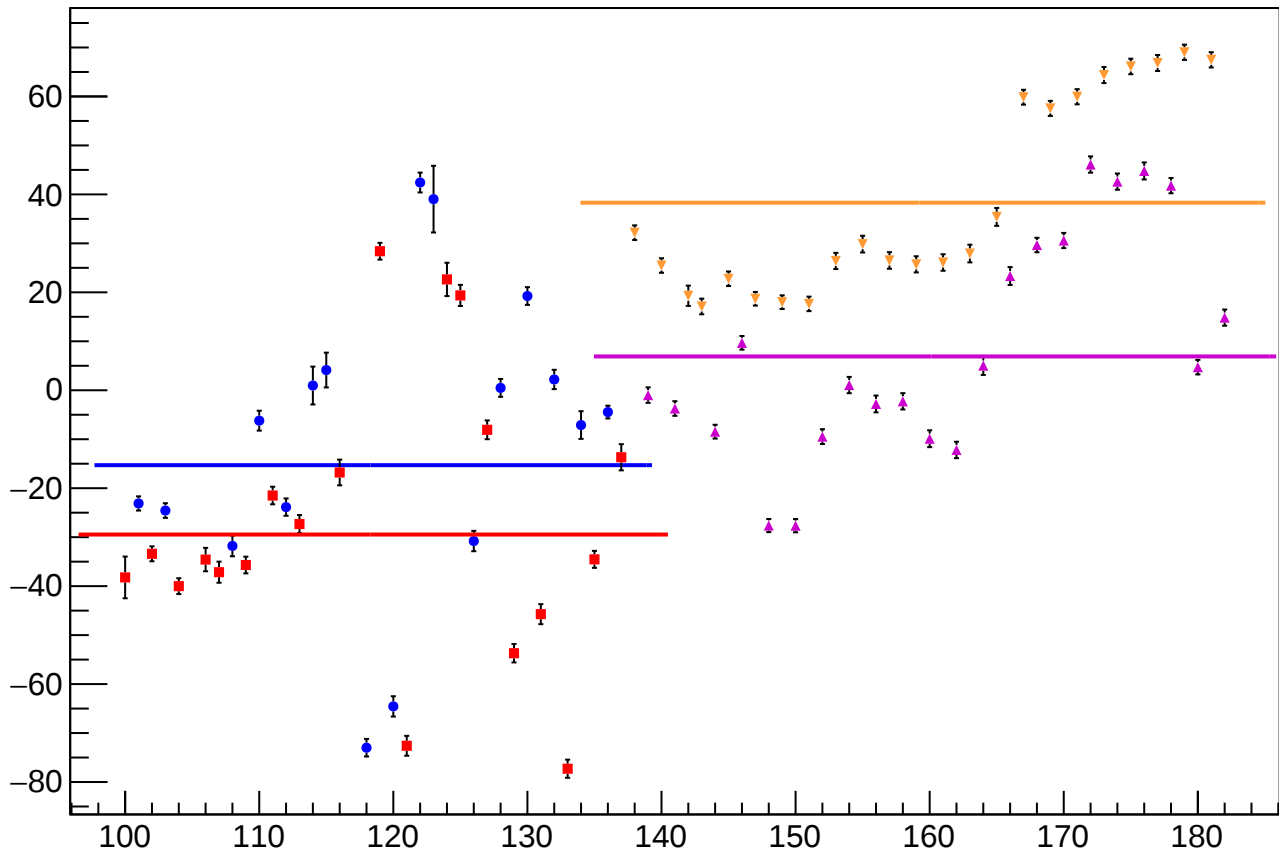
Right: 1398.064 $\pm$ 0.266 χ^2 /NDF: 28495.7/35

In: 1629.732 $\pm$ 0.239 χ^2 /NDF: 894254.2/38

Out: 1619.562 $\pm$ 0.233 χ^2 /NDF: 927517.7/41

All: 1624.533 $\pm$ 0.167 χ^2 /NDF: 1822699.9/80

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.296 ± 0.473 χ^2/NDF : 3345.6/16

Left Out: 38.303 ± 0.332 χ^2/NDF : 3490.6/22

Right Out: -29.461 ± 0.457 χ^2/NDF : 3528.0/18

Left In: 6.907 ± 0.335 χ^2/NDF : 4488.6/21

Left: 22.769 ± 0.236 χ^2/NDF : 12404.2/44

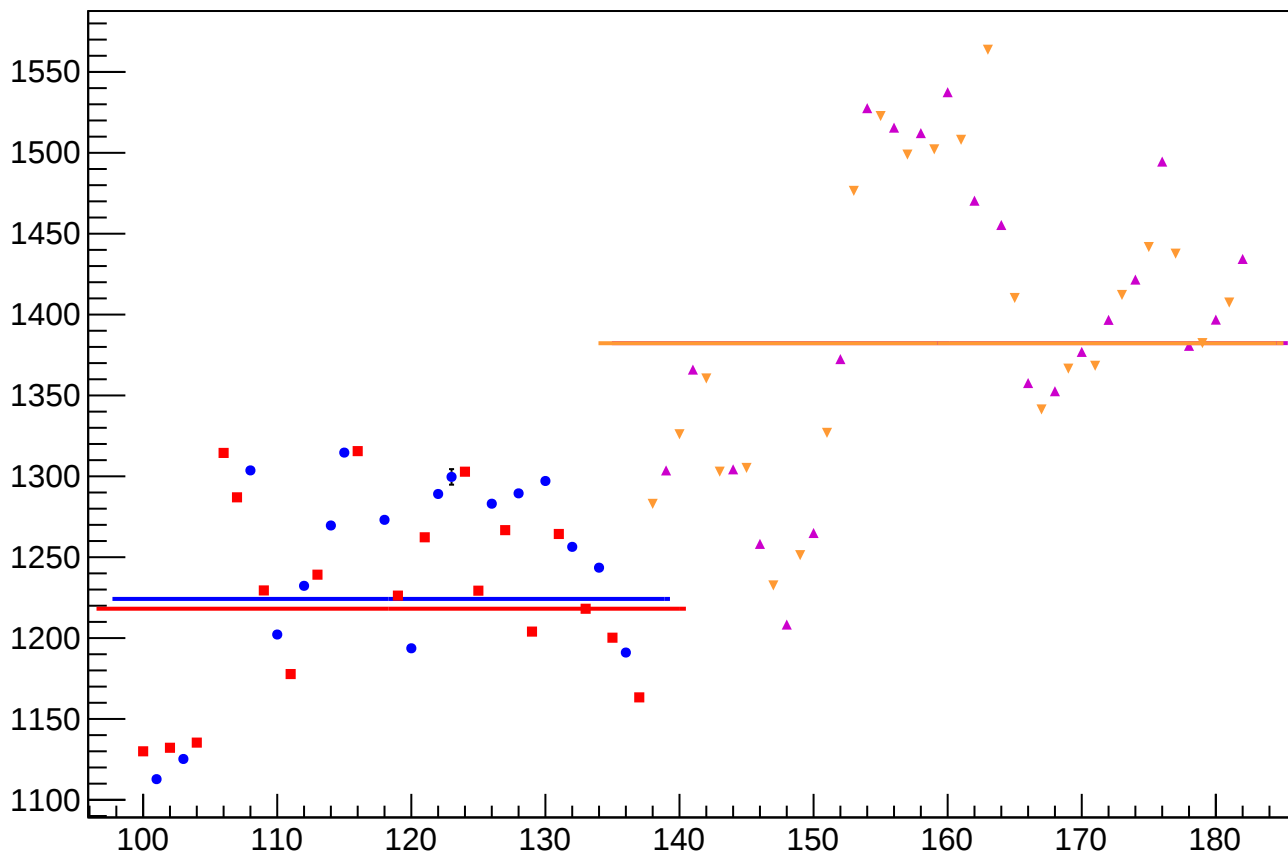
Right: -22.622 ± 0.329 χ^2/NDF : 7337.6/35

In: -0.526 ± 0.274 χ^2/NDF : 9300.6/38

Out: 14.888 ± 0.269 χ^2/NDF : 21414.7/41

All: 7.325 ± 0.192 χ^2/NDF : 32331.6/80

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.212 $\pm$ 0.334 χ^2 /NDF: 38774.7/16

Left Out: 1382.286 $\pm$ 0.235 χ^2 /NDF:145484.1/22

Right Out: 1218.154 $\pm$ 0.323 χ^2 /NDF: 27562.5/18

Left In: 1382.349 $\pm$ 0.237 χ^2 /NDF:152942.2/21

Left: 1382.317 $\pm$ 0.167 χ^2 /NDF: 298426.3/44

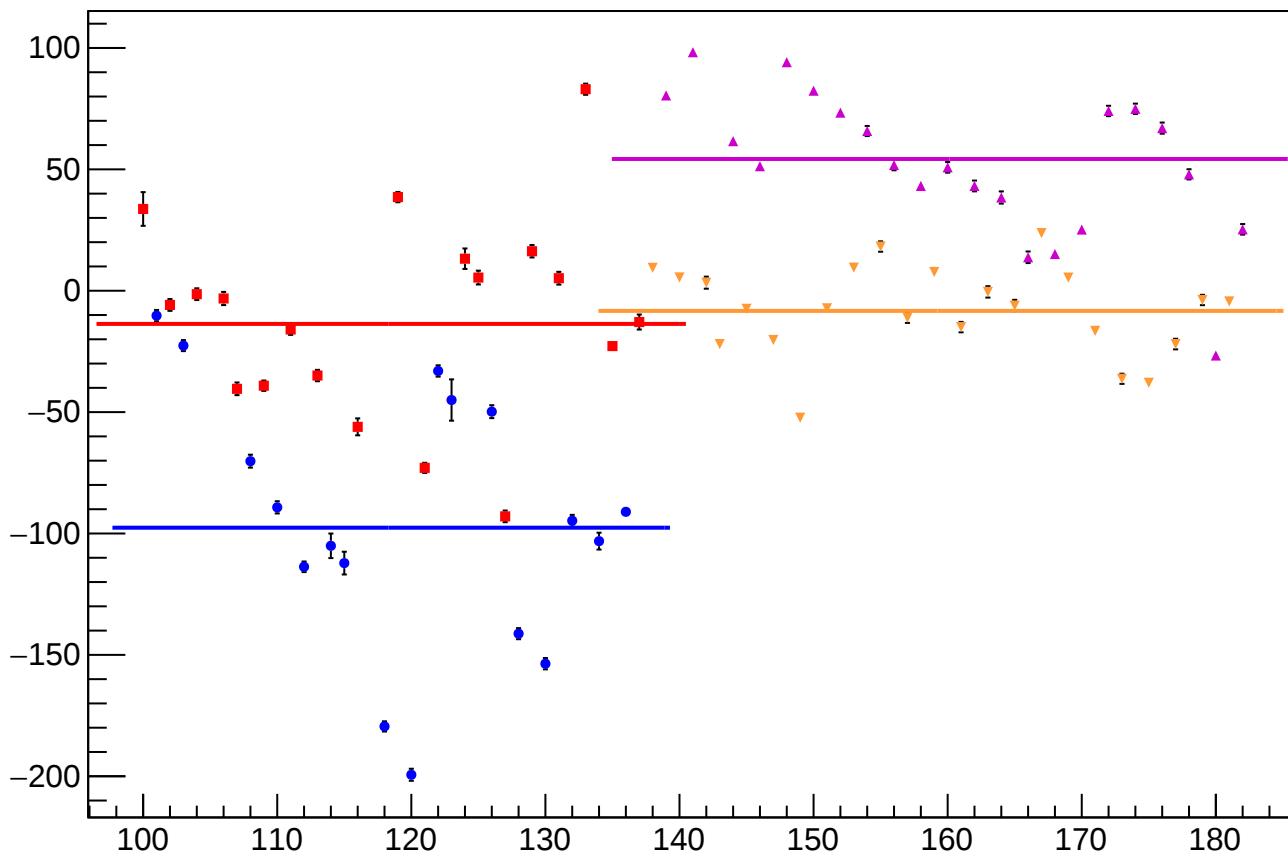
Right: 1221.079 $\pm$ 0.232 χ^2 /NDF: 66506.9/35

In: 1329.409 $\pm$ 0.193 χ^2 /NDF:340491.8/38

Out: 1325.572 $\pm$ 0.190 χ^2 /NDF:341958.3/41

All: 1327.455 $\pm$ 0.136 χ^2 /NDF: 682650.4/80

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.610 ± 0.602 χ^2/NDF : 7919.3/16

Left Out: -8.298 ± 0.421 χ^2/NDF : 1920.9/22

Right Out: -13.666 ± 0.580 χ^2/NDF : 5116.2/18

Left In: 54.276 ± 0.429 χ^2/NDF : 4708.7/21

Left: 22.404 ± 0.300 χ^2/NDF : 17474.8/44

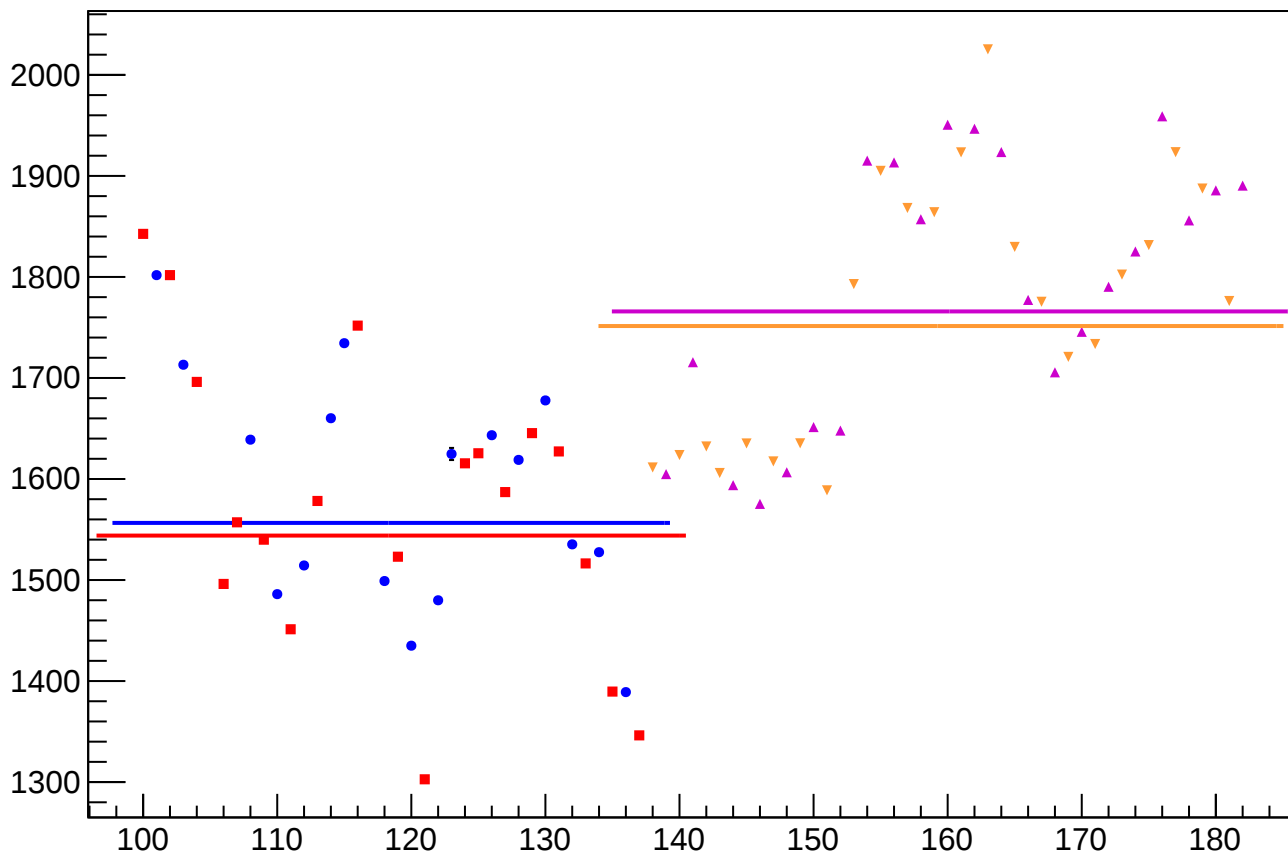
Right: -54.080 ± 0.418 χ^2/NDF : 23109.2/35

In: 3.180 ± 0.349 χ^2/NDF : 54831.4/38

Out: -10.148 ± 0.341 χ^2/NDF : 7093.2/41

All: -3.651 ± 0.244 χ^2/NDF : 62670.6/80

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.539 $\pm$ 0.426 χ^2 /NDF: 81438.3/16

Left Out: 1751.406 $\pm$ 0.298 χ^2 /NDF:171504.6/22

Right Out: 1543.993 $\pm$ 0.410 χ^2 /NDF: 100599.9/18

Left In: 1765.868 $\pm$ 0.303 χ^2 /NDF:186213.9/21

Left: 1758.502 $\pm$ 0.212 χ^2 /NDF: 358877.1/44

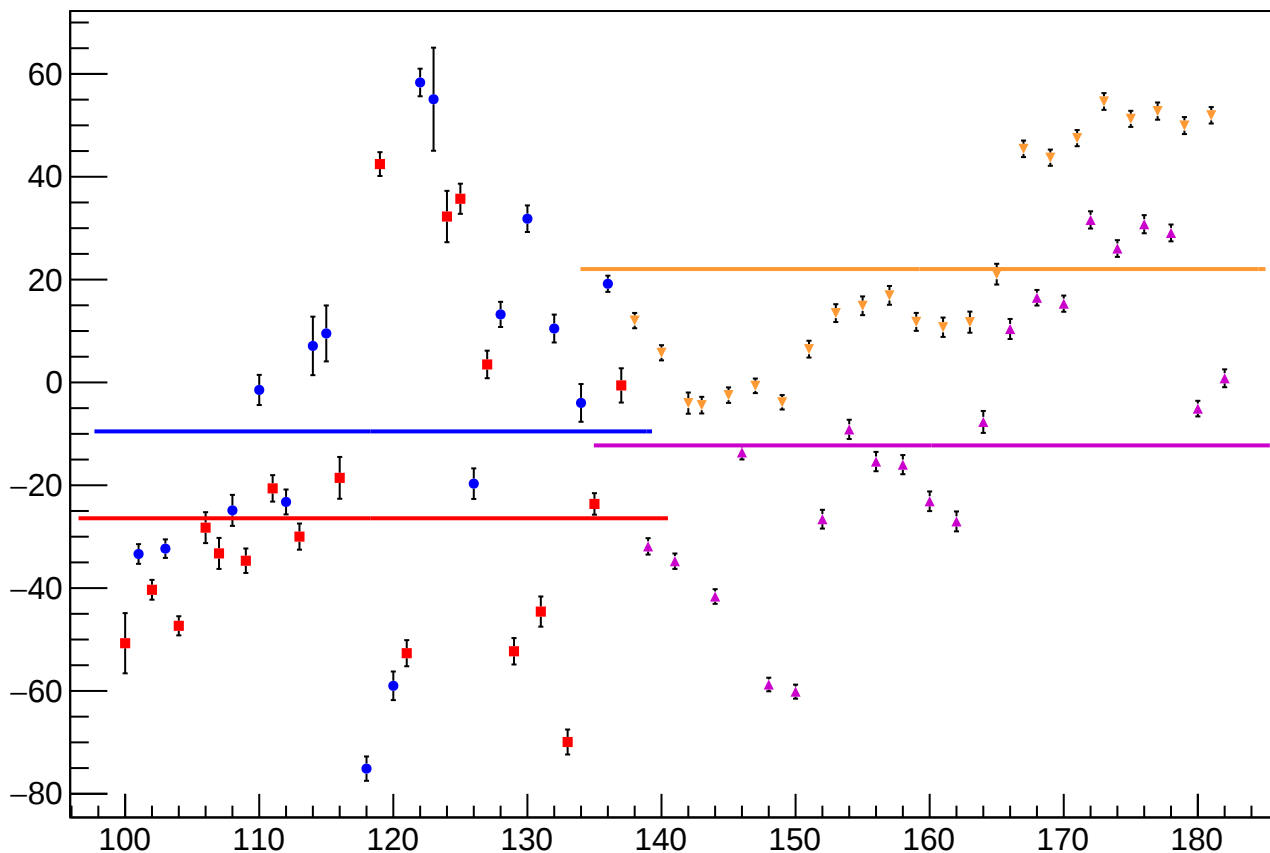
Right: 1550.033 $\pm$ 0.295 χ^2 /NDF: 182488.2/35

In: 1695.447 $\pm$ 0.247 χ^2 /NDF:427976.4/38

Out: 1679.912 $\pm$ 0.241 χ^2 /NDF:439525.5/41

All: 1687.486 $\pm$ 0.172 χ^2 /NDF: 869529.0/80

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.523 ± 0.627 $\chi^2/\text{NDF}: 2908.8/16$

Left Out: 22.050 ± 0.344 $\chi^2/\text{NDF}: 4075.5/22$

Right Out: -26.417 ± 0.604 $\chi^2/\text{NDF}: 2451.3/18$

Left In: -12.246 ± 0.350 $\chi^2/\text{NDF}: 6781.6/21$

Left: 5.193 ± 0.245 $\chi^2/\text{NDF}: 15753.2/44$

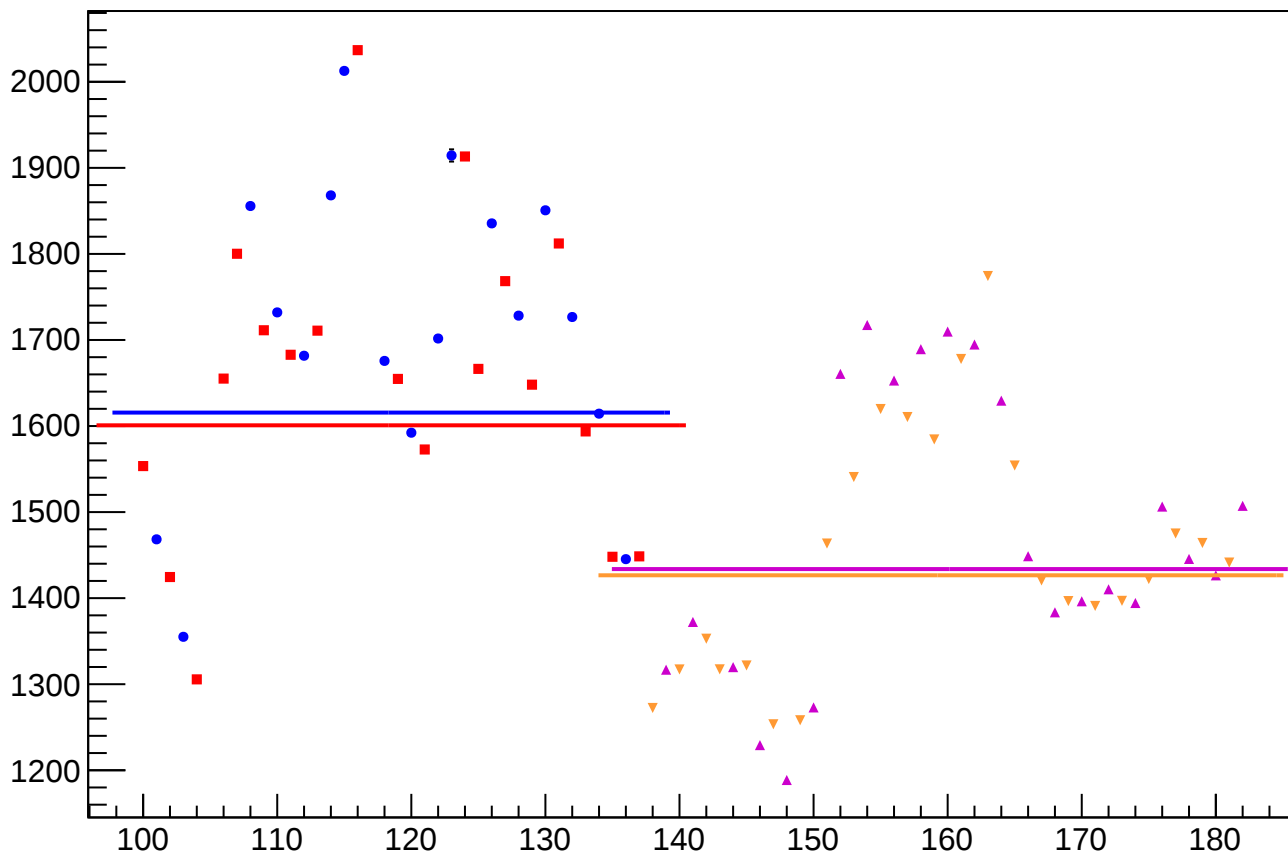
Right: -18.295 ± 0.435 $\chi^2/\text{NDF}: 5736.6/35$

In: -11.601 ± 0.305 $\chi^2/\text{NDF}: 9704.8/38$

Out: 10.189 ± 0.299 $\chi^2/\text{NDF}: 11395.3/41$

All: -0.465 ± 0.213 $\chi^2/\text{NDF}: 23703.1/80$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1615.627 $\pm$ 0.444 χ^2 /NDF: 149190.0/16

Left Out: 1426.562 $\pm$ 0.243 χ^2 /NDF: 287839.6/22

Right Out: 1600.836 $\pm$ 0.427 χ^2 /NDF: 153528.6/18

Left In: 1433.790 $\pm$ 0.247 χ^2 /NDF: 416822.9/21

Left: 1430.115 $\pm$ 0.173 χ^2 /NDF: 705097.4/44

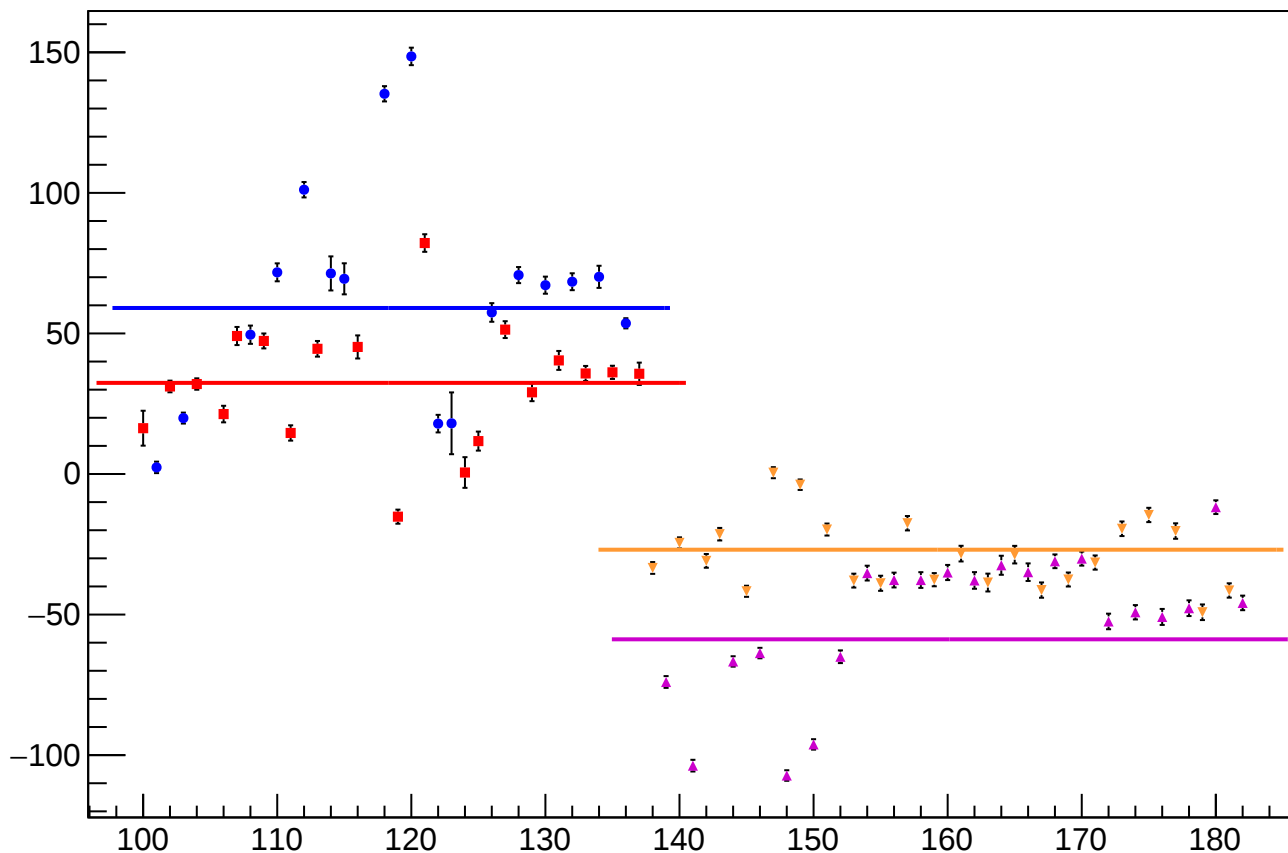
Right: 1607.947 $\pm$ 0.308 χ^2 /NDF: 303295.8/35

In: 1476.860 $\pm$ 0.216 χ^2 /NDF: 694231.4/38

Out: 1469.211 $\pm$ 0.211 χ^2 /NDF: 567254.8/41

All: 1472.950 $\pm$ 0.151 χ^2 /NDF: 1262127.7/80

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.057+/-0.700 χ^2/NDF : 3293.2/16

Left Out: -26.927+/-0.500 χ^2/NDF : 704.8/22

Right Out: 32.417+/-0.667 χ^2/NDF : 888.1/18

Left In: -58.808+/-0.510 χ^2/NDF : 2771.2/21

Left: -42.544+/-0.357 χ^2/NDF : 5471.4/44

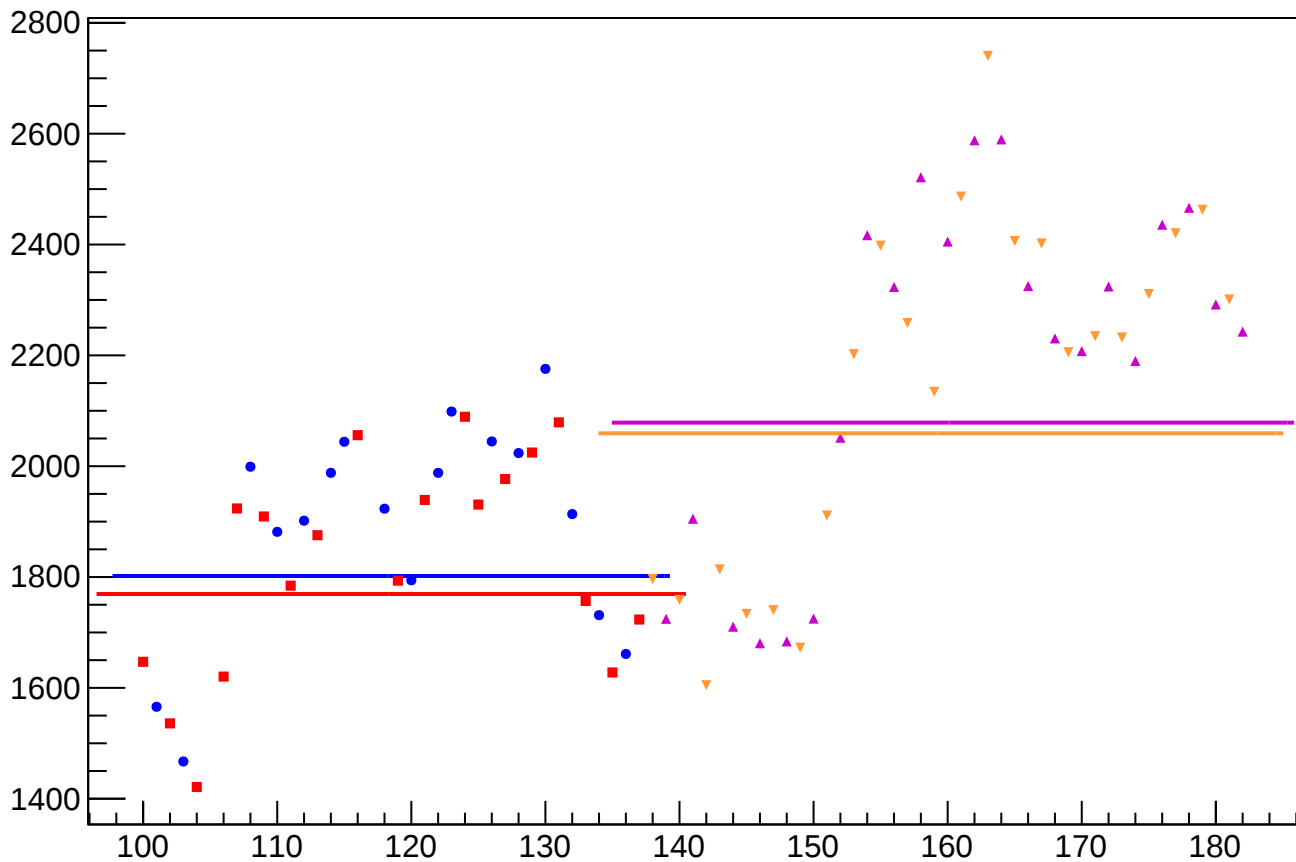
Right: 45.094+/-0.483 χ^2/NDF : 4939.4/35

In: -18.000+/-0.412 χ^2/NDF : 24575.4/38

Out: -5.621+/-0.400 χ^2/NDF : 6660.2/41

All: -11.624+/-0.287 χ^2/NDF : 31700.2/80

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1801.920 ± 0.495 $\chi^2/\text{NDF}: 183555.8/16$

Left Out: 2059.350 ± 0.353 $\chi^2/\text{NDF}: 760604.5/22$

Right Out: 1769.354 ± 0.472 $\chi^2/\text{NDF}: 177813.0/18$

Left In: 2078.633 ± 0.360 $\chi^2/\text{NDF}: 776445.9/21$

Left: 2068.796 ± 0.252 $\chi^2/\text{NDF}: 1538510.4/44$

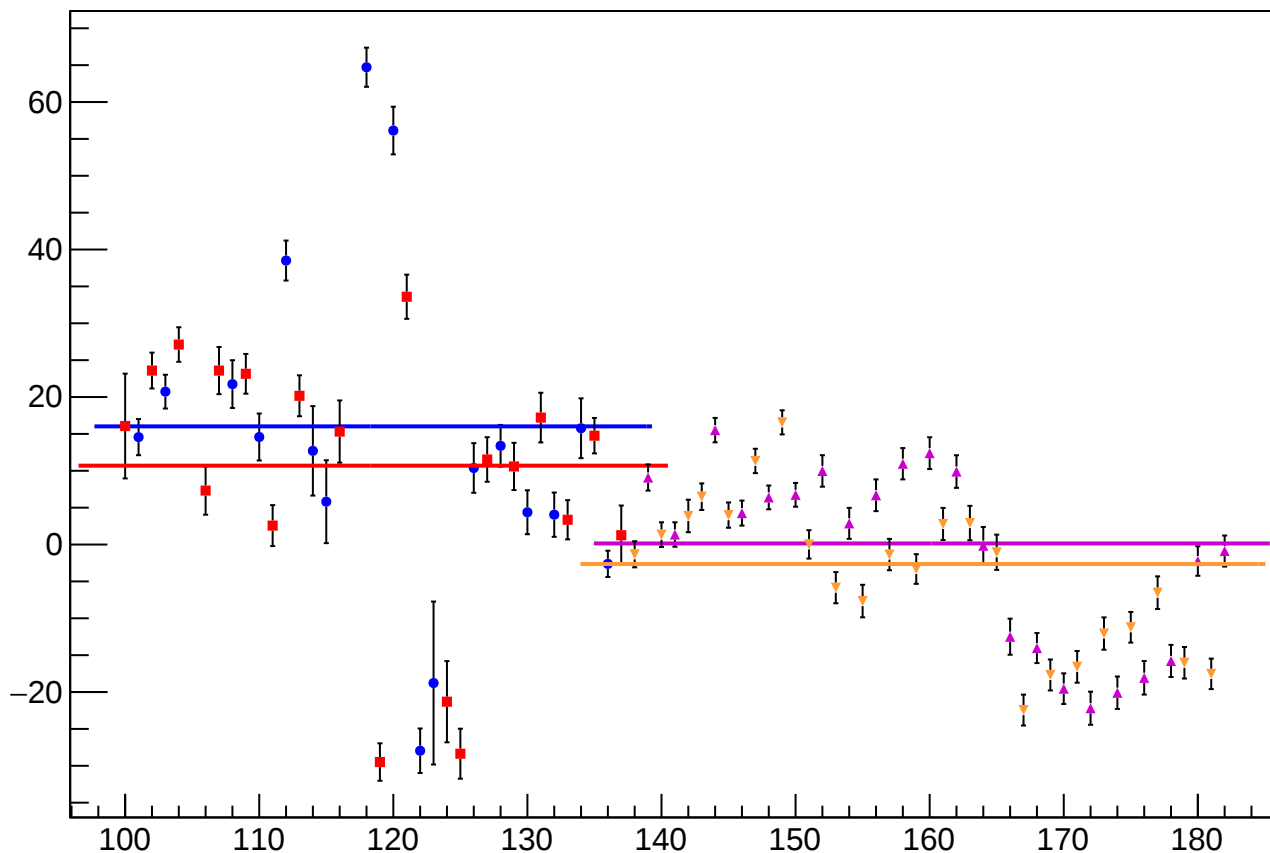
Right: 1784.851 ± 0.342 $\chi^2/\text{NDF}: 363634.8/35$

In: 1982.827 ± 0.291 $\chi^2/\text{NDF}: 1164058.5/38$

Out: 1955.235 ± 0.283 $\chi^2/\text{NDF}: 1180430.6/41$

All: 1968.615 ± 0.203 $\chi^2/\text{NDF}: 2349105.8/80$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 16.023 ± 0.723 $\chi^2/\text{NDF}: 938.1/16$

Left Out: -2.643 ± 0.416 $\chi^2/\text{NDF}: 599.7/22$

Right Out: 10.695 ± 0.694 $\chi^2/\text{NDF}: 632.7/18$

Left In: 0.149 ± 0.425 $\chi^2/\text{NDF}: 727.4/21$

Left: -1.275 ± 0.297 $\chi^2/\text{NDF}: 1349.2/44$

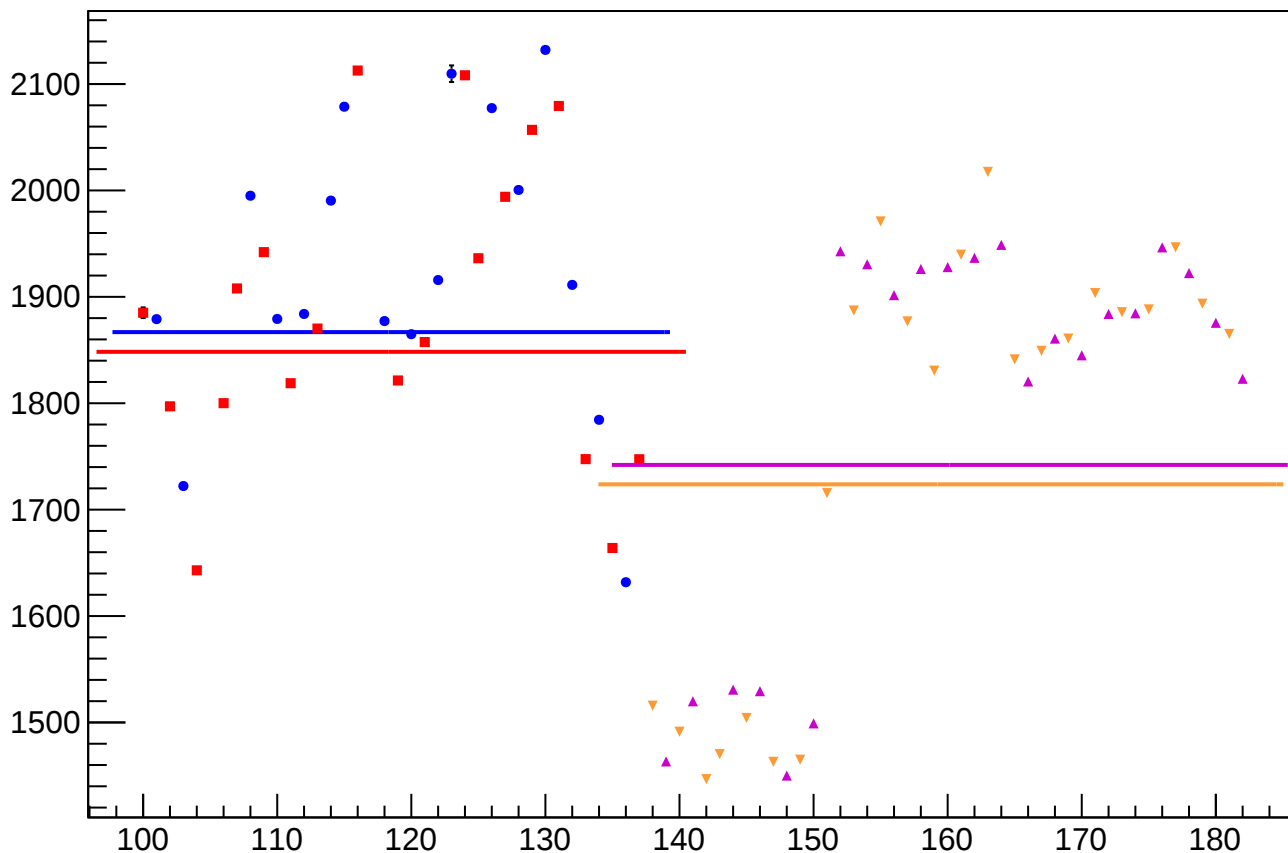
Right: 13.253 ± 0.501 $\chi^2/\text{NDF}: 1599.1/35$

In: 4.221 ± 0.366 $\chi^2/\text{NDF}: 2024.2/38$

Out: 0.881 ± 0.357 $\chi^2/\text{NDF}: 1503.9/41$

All: 2.509 ± 0.256 $\chi^2/\text{NDF}: 3570.8/80$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1866.855 +/- 0.511 χ^2/NDF : 80657.5/16

Left Out: 1723.781 +/- 0.294 χ^2/NDF : 474747.8/22

Right Out: 1848.333 +/- 0.491 χ^2/NDF : 72586.9/18

Left In: 1742.026 +/- 0.300 χ^2/NDF : 435768.6/21

Left: 1732.720 +/- 0.210 χ^2/NDF : 912400.2/44

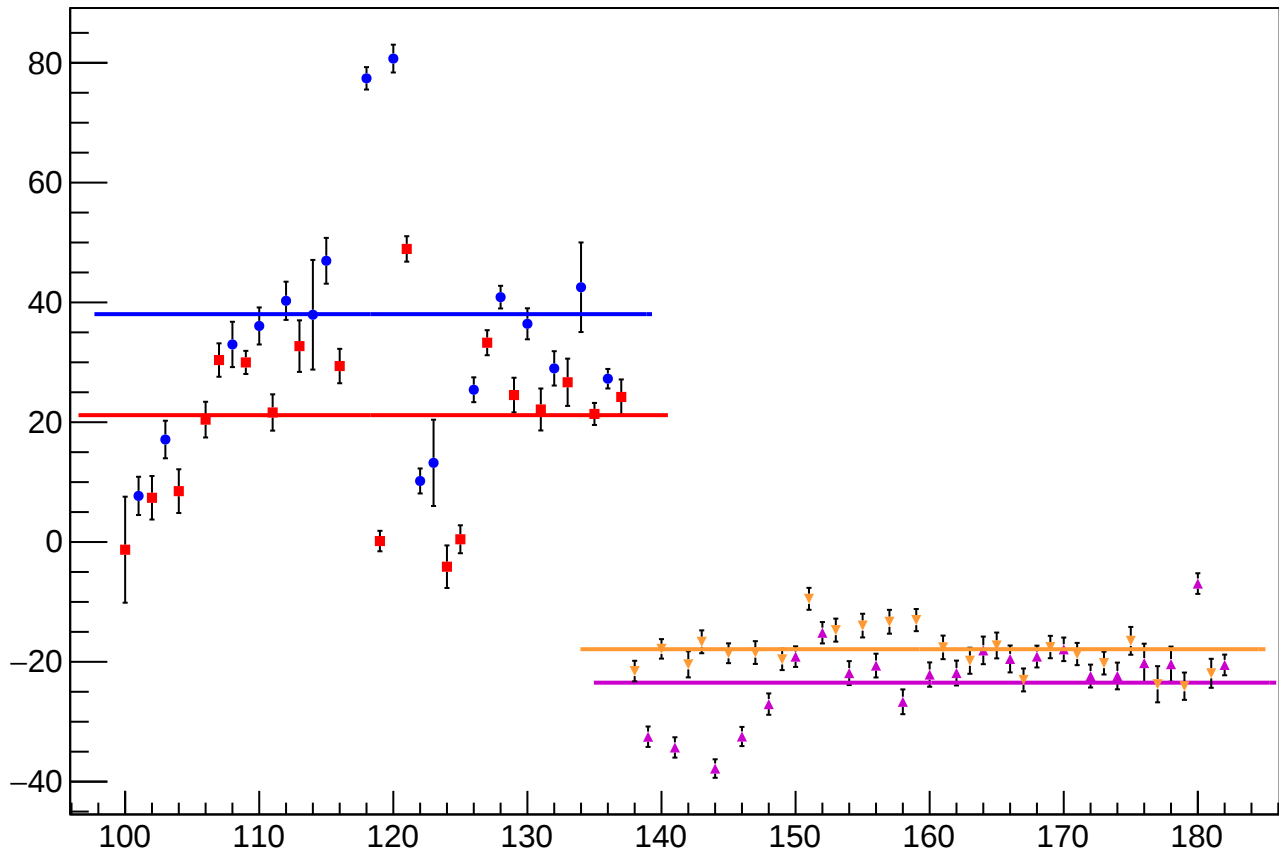
Right: 1857.225 +/- 0.354 χ^2/NDF : 153927.5/35

In: 1774.053 +/- 0.259 χ^2/NDF : 560786.2/38

Out: 1756.688 +/- 0.252 χ^2/NDF : 594676.1/41

All: 1765.152 +/- 0.181 χ^2/NDF : 1157769.4/80

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 38.041 ± 0.639 $\chi^2/\text{NDF}: 1207.6/16$

Left Out: -17.893 ± 0.408 $\chi^2/\text{NDF}: 71.6/22$

Right Out: 21.178 ± 0.610 $\chi^2/\text{NDF}: 570.0/18$

Left In: -23.481 ± 0.409 $\chi^2/\text{NDF}: 345.0/21$

Left: -20.686 ± 0.289 $\chi^2/\text{NDF}: 510.2/44$

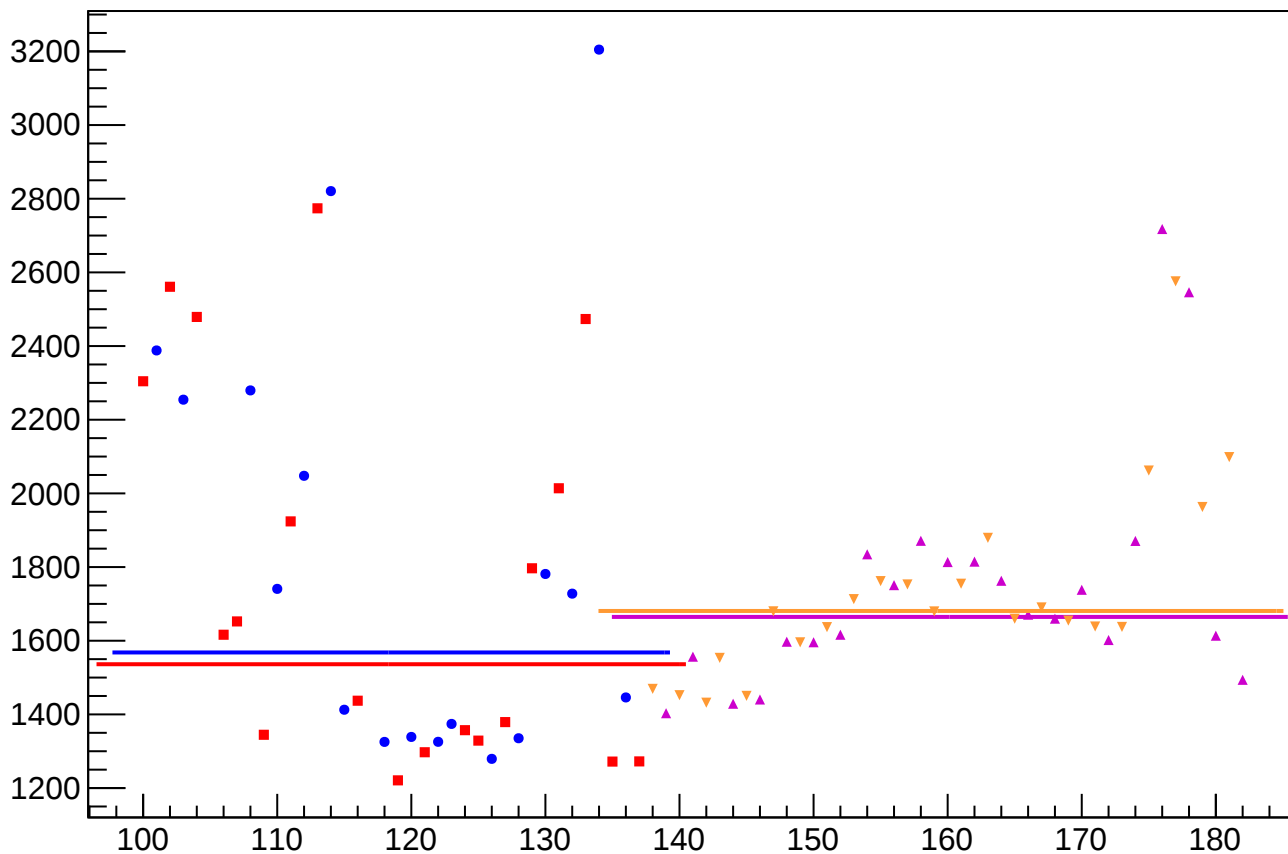
Right: 29.215 ± 0.441 $\chi^2/\text{NDF}: 2142.4/35$

In: -5.620 ± 0.344 $\chi^2/\text{NDF}: 8136.0/38$

Out: -5.788 ± 0.339 $\chi^2/\text{NDF}: 3477.1/41$

All: -5.705 ± 0.242 $\chi^2/\text{NDF}: 11613.3/80$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1568.172 $\pm$ 0.452 χ^2/NDF : 668072.7/16

Left Out: 1680.820 $\pm$ 0.289 χ^2/NDF : 497938.3/22

Right Out: 1536.208 $\pm$ 0.431 χ^2/NDF : 882312.9/18

Left In: 1664.653 $\pm$ 0.289 χ^2/NDF : 647019.0/21

Left: 1672.739 $\pm$ 0.204 χ^2/NDF : 1146523.8/44

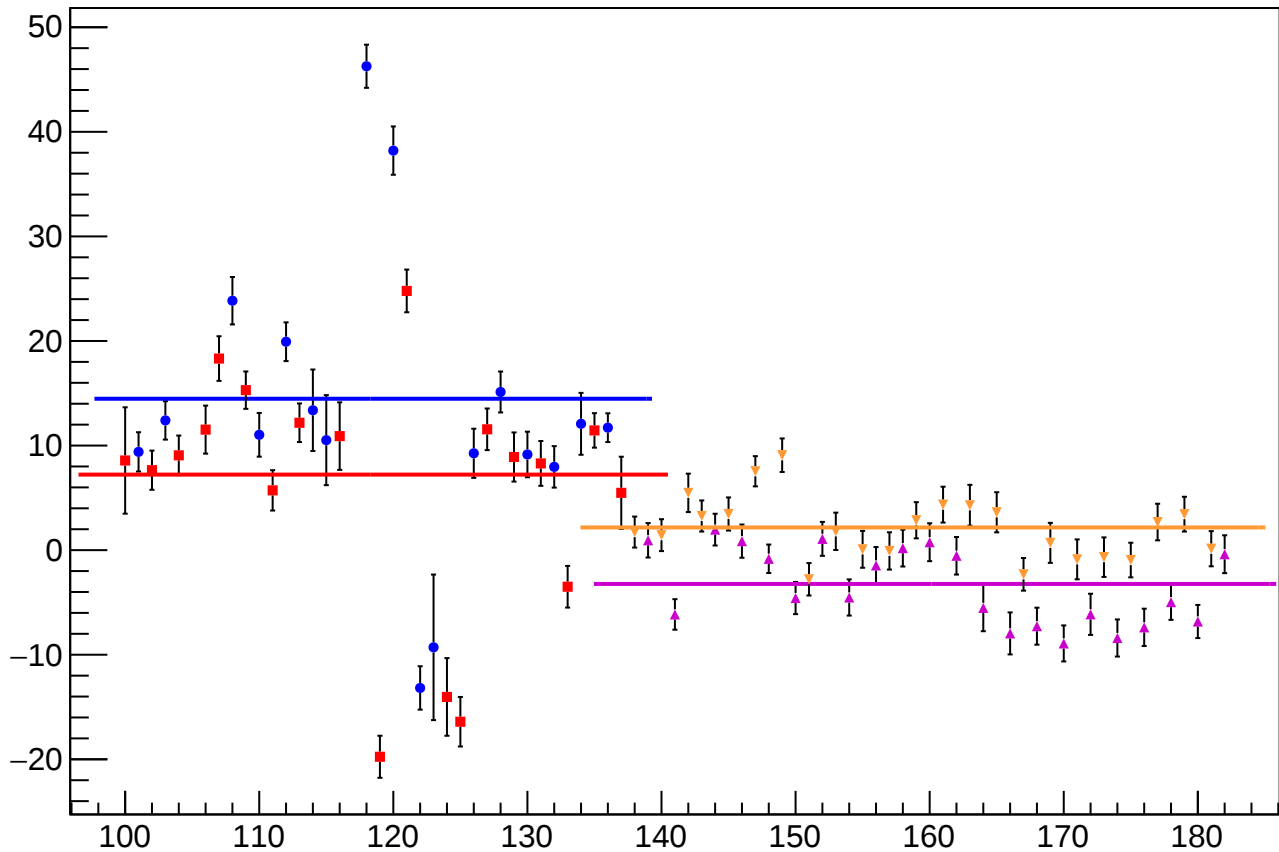
Right: 1551.443 $\pm$ 0.312 χ^2/NDF : 1553006.8/35

In: 1636.642 $\pm$ 0.243 χ^2/NDF : 1347472.7/38

Out: 1636.015 $\pm$ 0.240 χ^2/NDF : 1457940.8/41

All: 1636.324 $\pm$ 0.171 χ^2/NDF : 2805416.9/80

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.477 ± 0.524 $\chi^2/\text{NDF}: 596.5/16$

Left Out: 2.169 ± 0.351 $\chi^2/\text{NDF}: 73.2/22$

Right Out: 7.223 ± 0.495 $\chi^2/\text{NDF}: 489.0/18$

Left In: -3.231 ± 0.362 $\chi^2/\text{NDF}: 99.6/21$

Left: -0.451 ± 0.252 $\chi^2/\text{NDF}: 287.6/44$

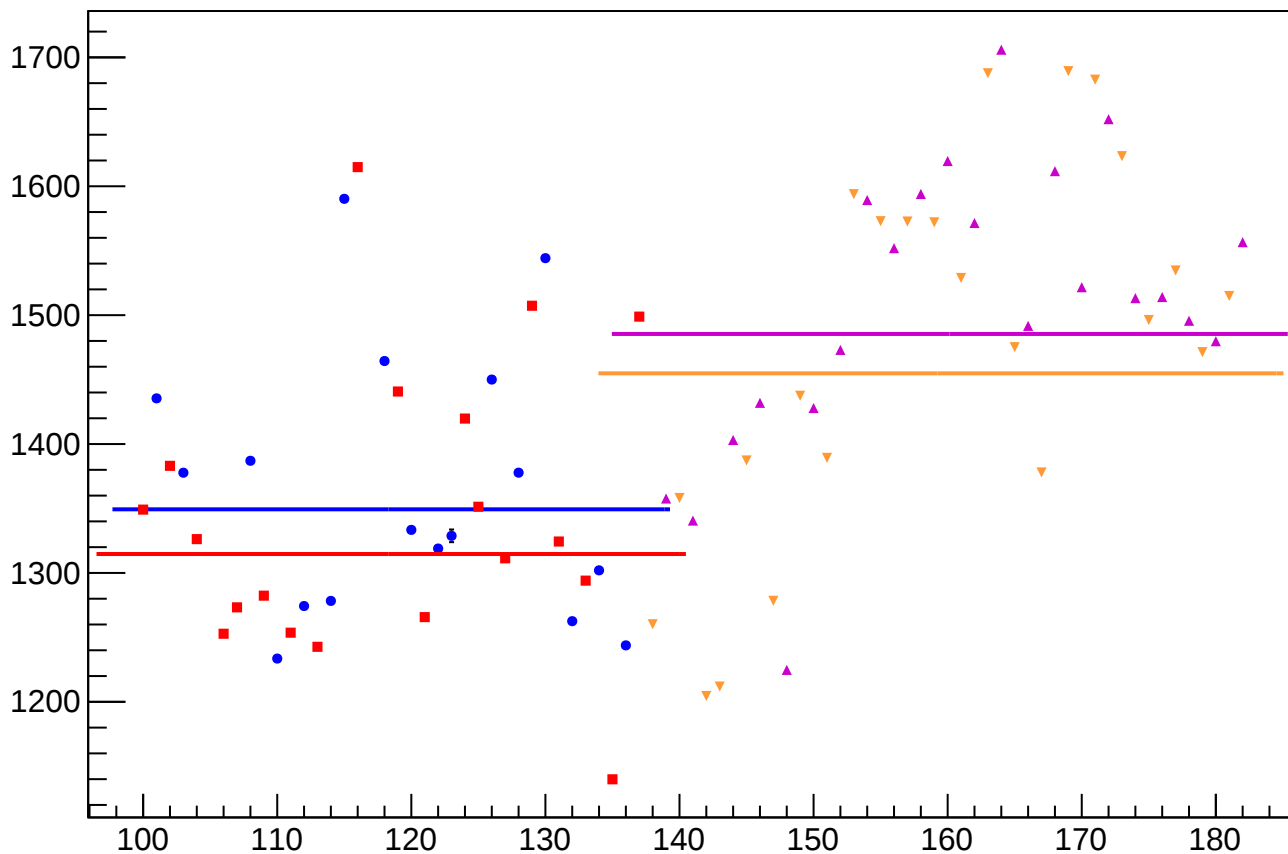
Right: 10.645 ± 0.360 $\chi^2/\text{NDF}: 1186.7/35$

In: 2.479 ± 0.298 $\chi^2/\text{NDF}: 1469.7/38$

Out: 3.859 ± 0.286 $\chi^2/\text{NDF}: 631.5/41$

All: 3.195 ± 0.206 $\chi^2/\text{NDF}: 2112.5/80$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.357 $\pm$ 0.371 χ^2 /NDF: 64580.7/16

Left Out: 1454.865 $\pm$ 0.248 χ^2 /NDF:329267.3/22

Right Out: 1314.682 $\pm$ 0.350 χ^2 /NDF: 80983.6/18

Left In: 1485.418 $\pm$ 0.256 χ^2 /NDF:198494.2/21

Left: 1469.690 $\pm$ 0.178 χ^2 /NDF: 535115.5/44

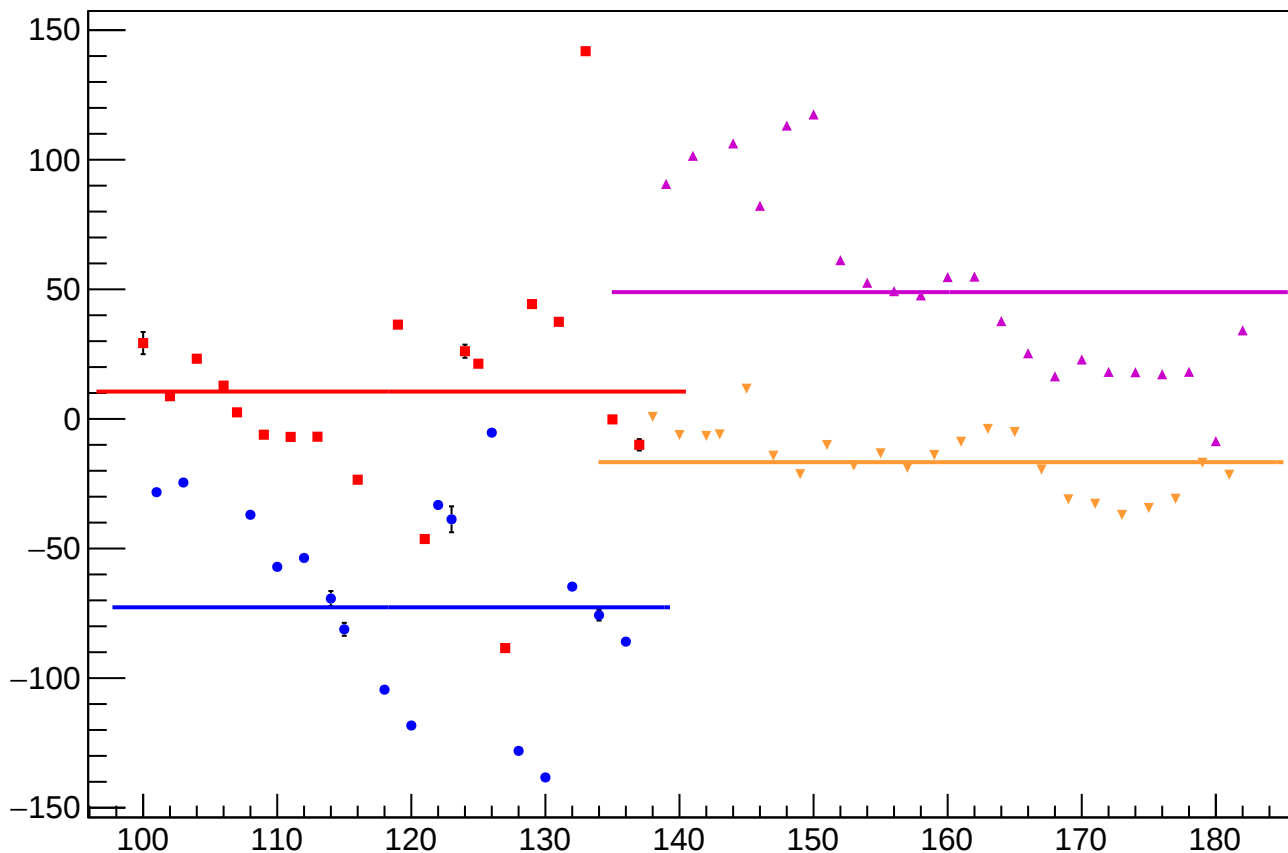
Right: 1331.041 $\pm$ 0.255 χ^2 /NDF: 150189.5/35

In: 1441.551 $\pm$ 0.210 χ^2 /NDF:354420.1/38

Out: 1408.001 $\pm$ 0.202 χ^2 /NDF:516916.3/41

All: 1424.132 $\pm$ 0.146 χ^2 /NDF: 884535.8/80

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.674 ± 0.363 χ^2/NDF : 11603.9/16

Left Out: -16.678 ± 0.218 χ^2/NDF : 3126.8/22

Right Out: 10.552 ± 0.353 χ^2/NDF : 18145.5/18

Left In: 48.915 ± 0.222 χ^2/NDF : 25247.3/21

Left: 15.526 ± 0.155 χ^2/NDF : 72952.4/44

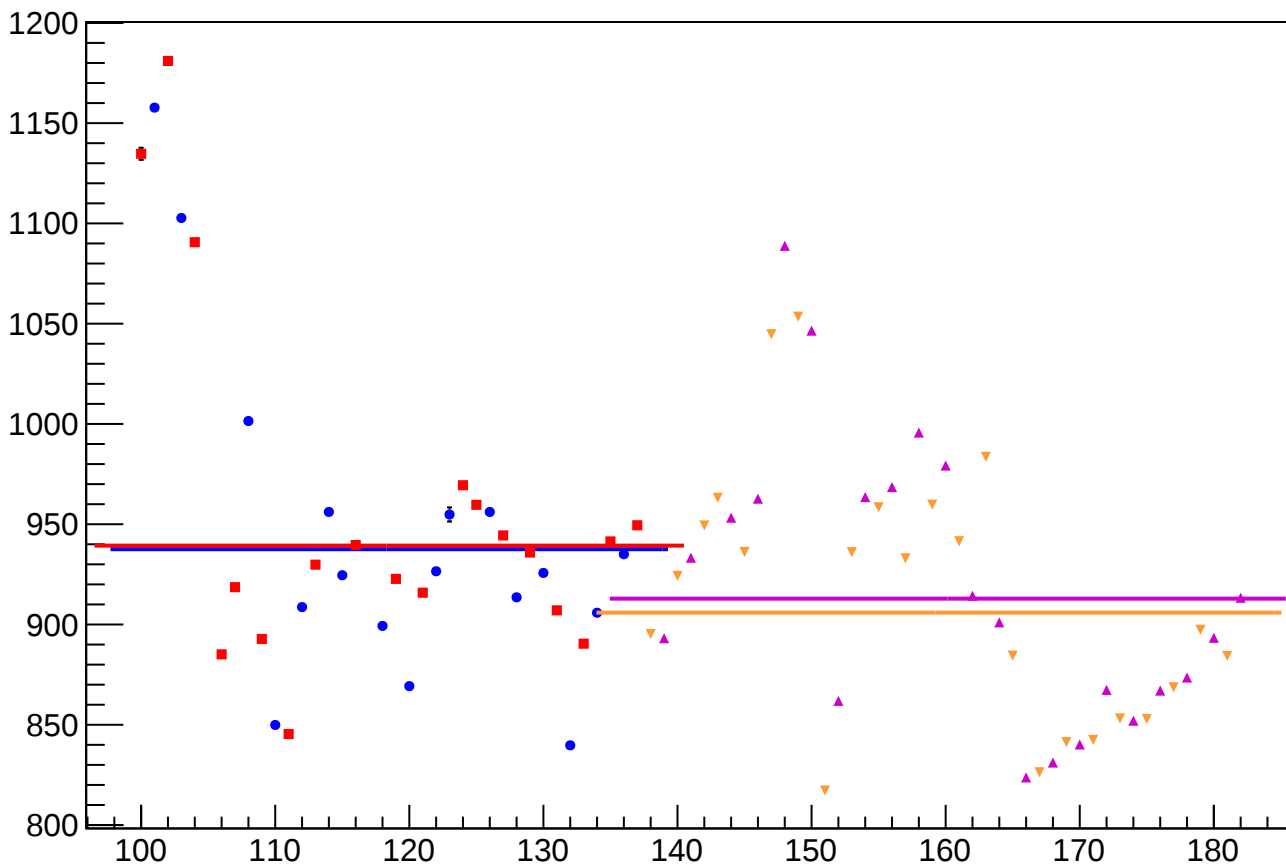
Right: -29.893 ± 0.253 χ^2/NDF : 56765.3/35

In: 15.897 ± 0.189 χ^2/NDF : 118566.0/38

Out: -9.176 ± 0.185 χ^2/NDF : 25583.8/41

All: 3.100 ± 0.132 χ^2/NDF : 153115.0/80

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.550 $\pm$ 0.257 χ^2 /NDF: 98231.3/16

Left Out: 905.917 $\pm$ 0.154 χ^2 /NDF:160919.4/22

Right Out: 939.341 $\pm$ 0.250 χ^2 /NDF: 90084.9/18

Left In: 912.899 $\pm$ 0.157 χ^2 /NDF:174258.8/21

Left: 909.345 $\pm$ 0.110 χ^2 /NDF: 336188.3/44

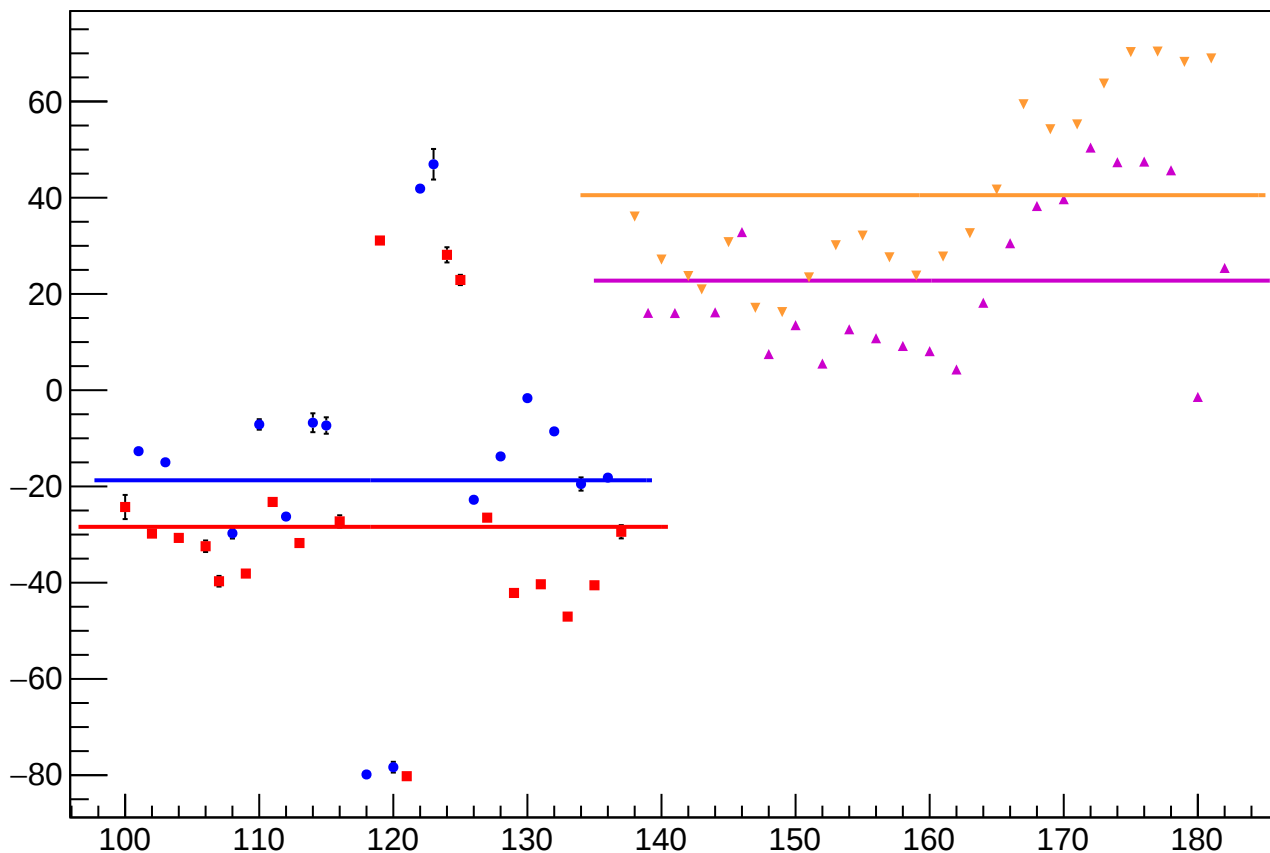
Right: 938.471 $\pm$ 0.179 χ^2 /NDF: 188341.3/35

In: 919.593 $\pm$ 0.134 χ^2 /NDF:279207.5/38

Out: 915.126 $\pm$ 0.131 χ^2 /NDF:263996.1/41

All: 917.313 $\pm$ 0.094 χ^2 /NDF: 543772.7/80

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.723 ± 0.243 χ^2/NDF : 12999.6/16

Left Out: 40.525 ± 0.172 χ^2/NDF : 11991.4/22

Right Out: -28.395 ± 0.236 χ^2/NDF : 12424.6/18

Left In: 22.769 ± 0.177 χ^2/NDF : 8073.3/21

Left: 31.857 ± 0.123 χ^2/NDF : 25243.2/44

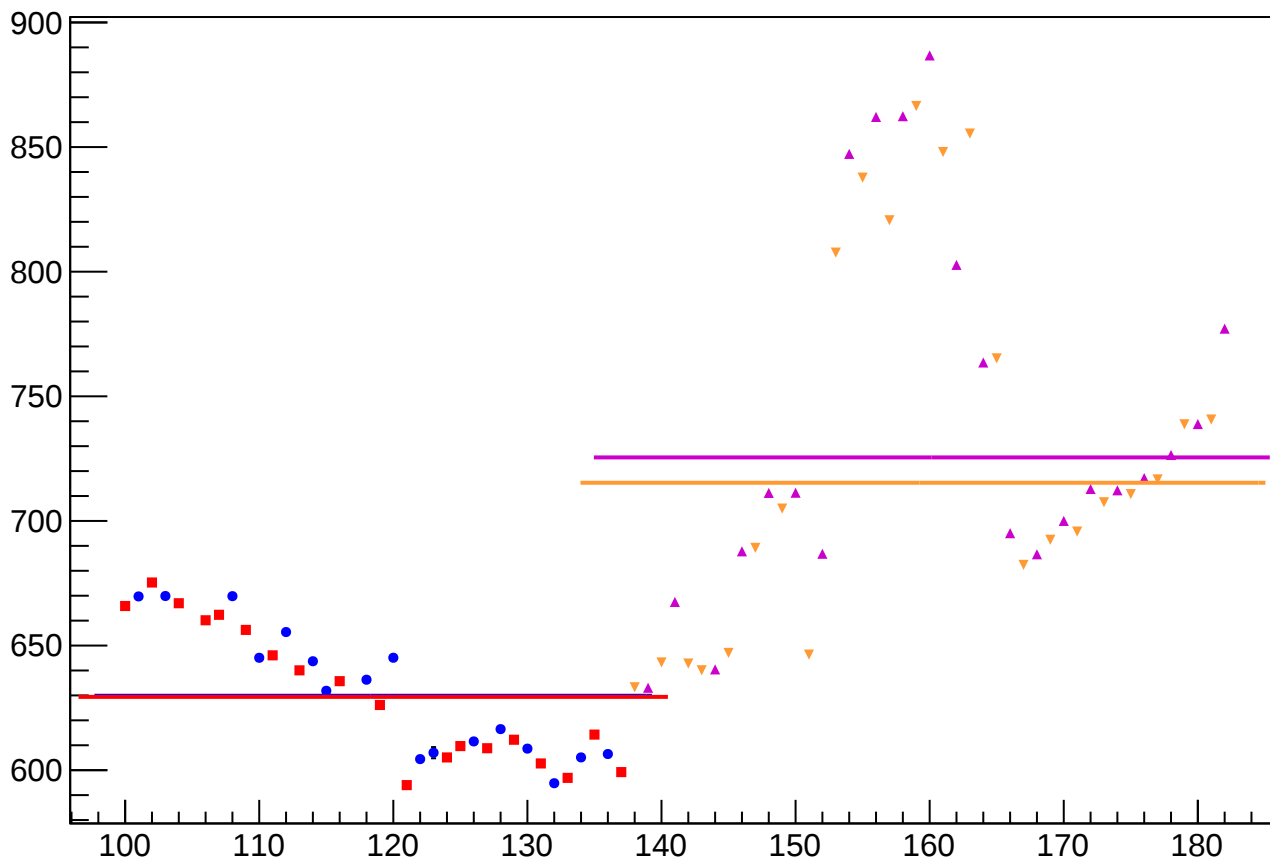
Right: -23.705 ± 0.169 χ^2/NDF : 26239.5/35

In: 8.444 ± 0.143 χ^2/NDF : 40145.7/38

Out: 16.528 ± 0.139 χ^2/NDF : 80064.3/41

All: 12.591 ± 0.100 χ^2/NDF : 121853.1/80

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.857 ± 0.172 $\chi^2/\text{NDF}: 23252.7/16$

Left Out: 715.321 ± 0.122 $\chi^2/\text{NDF}: 336160.4/22$

Right Out: 629.413 ± 0.167 $\chi^2/\text{NDF}: 25484.3/18$

Left In: 725.485 ± 0.125 $\chi^2/\text{NDF}: 286055.1/21$

Left: 720.283 ± 0.087 $\chi^2/\text{NDF}: 625608.7/44$

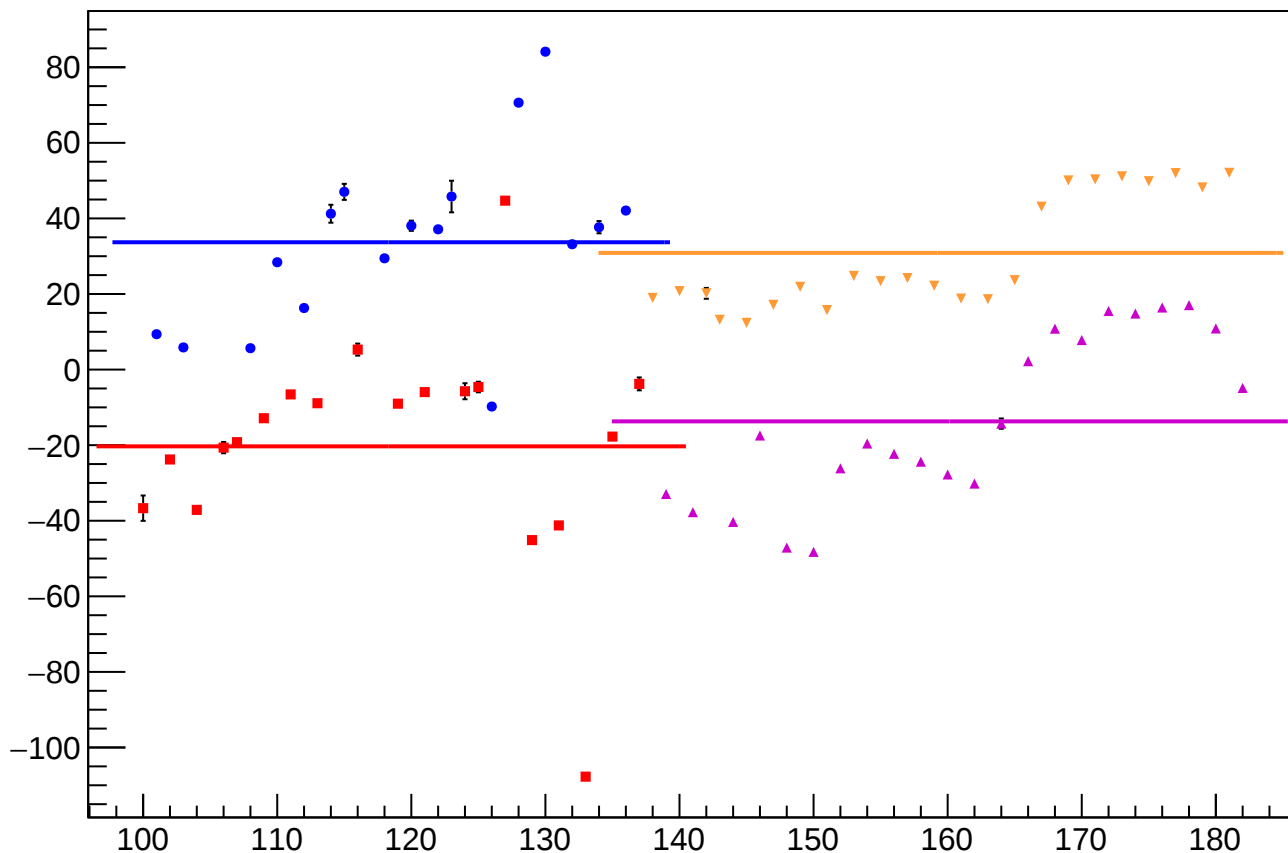
Right: 629.628 ± 0.120 $\chi^2/\text{NDF}: 48740.5/35$

In: 692.470 ± 0.101 $\chi^2/\text{NDF}: 511933.4/38$

Out: 685.409 ± 0.098 $\chi^2/\text{NDF}: 534575.7/41$

All: 688.848 ± 0.070 $\chi^2/\text{NDF}: 1049015.8/80$

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.692+/-0.300 χ^2/NDF : 6428.2/16

Left Out: 30.876+/-0.244 χ^2/NDF : 3735.0/22

Right Out: -20.314+/-0.293 χ^2/NDF : 11278.0/18

Left In: -13.705+/-0.248 χ^2/NDF : 7972.8/21

Left: 8.901+/-0.174 χ^2/NDF : 28119.4/44

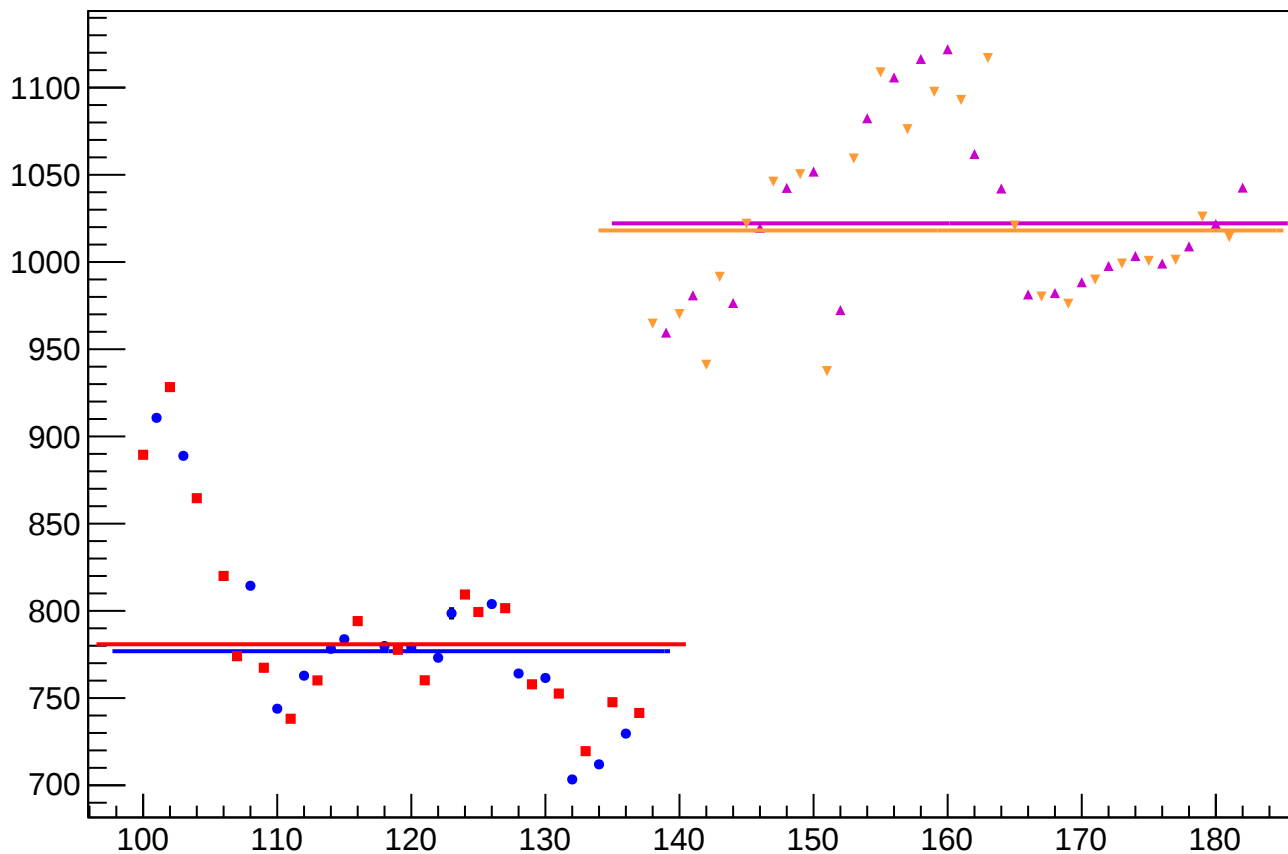
Right: 6.016+/-0.210 χ^2/NDF : 34265.5/35

In: 5.485+/-0.191 χ^2/NDF : 29212.7/38

Out: 9.884+/-0.188 χ^2/NDF : 33014.6/41

All: 7.725+/-0.134 χ^2/NDF : 62496.9/80

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.869 $\pm$ 0.212 χ^2/NDF : 67447.3/16

Left Out: 1018.095 $\pm$ 0.173 χ^2/NDF : 83140.0/22

Right Out: 780.840 $\pm$ 0.207 χ^2/NDF : 57297.9/18

Left In: 1022.178 $\pm$ 0.175 χ^2/NDF : 69407.6/21

Left: 1020.107 $\pm$ 0.123 χ^2/NDF : 152823.0/44

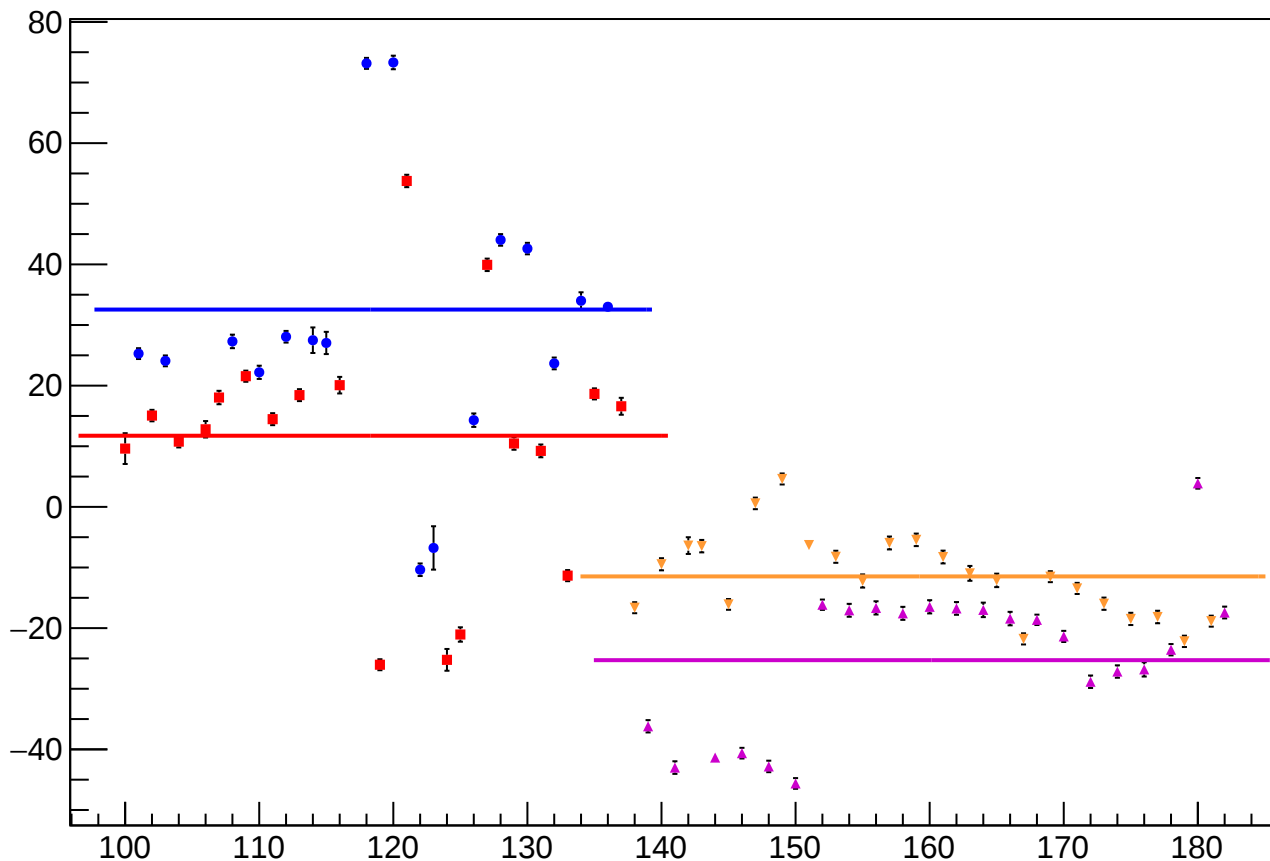
Right: 778.904 $\pm$ 0.148 χ^2/NDF : 124924.2/35

In: 922.858 $\pm$ 0.135 χ^2/NDF : 930389.2/38

Out: 920.801 $\pm$ 0.133 χ^2/NDF : 913845.1/41

All: 921.810 $\pm$ 0.095 χ^2/NDF : 1844352.2/80

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.550 ± 0.253 $\chi^2/\text{NDF}: 6077.4/16$

Left Out: -11.471 ± 0.206 $\chi^2/\text{NDF}: 1128.9/22$

Right Out: 11.737 ± 0.247 $\chi^2/\text{NDF}: 6313.2/18$

Left In: -25.286 ± 0.209 $\chi^2/\text{NDF}: 3728.8/21$

Left: -18.272 ± 0.147 $\chi^2/\text{NDF}: 7075.4/44$

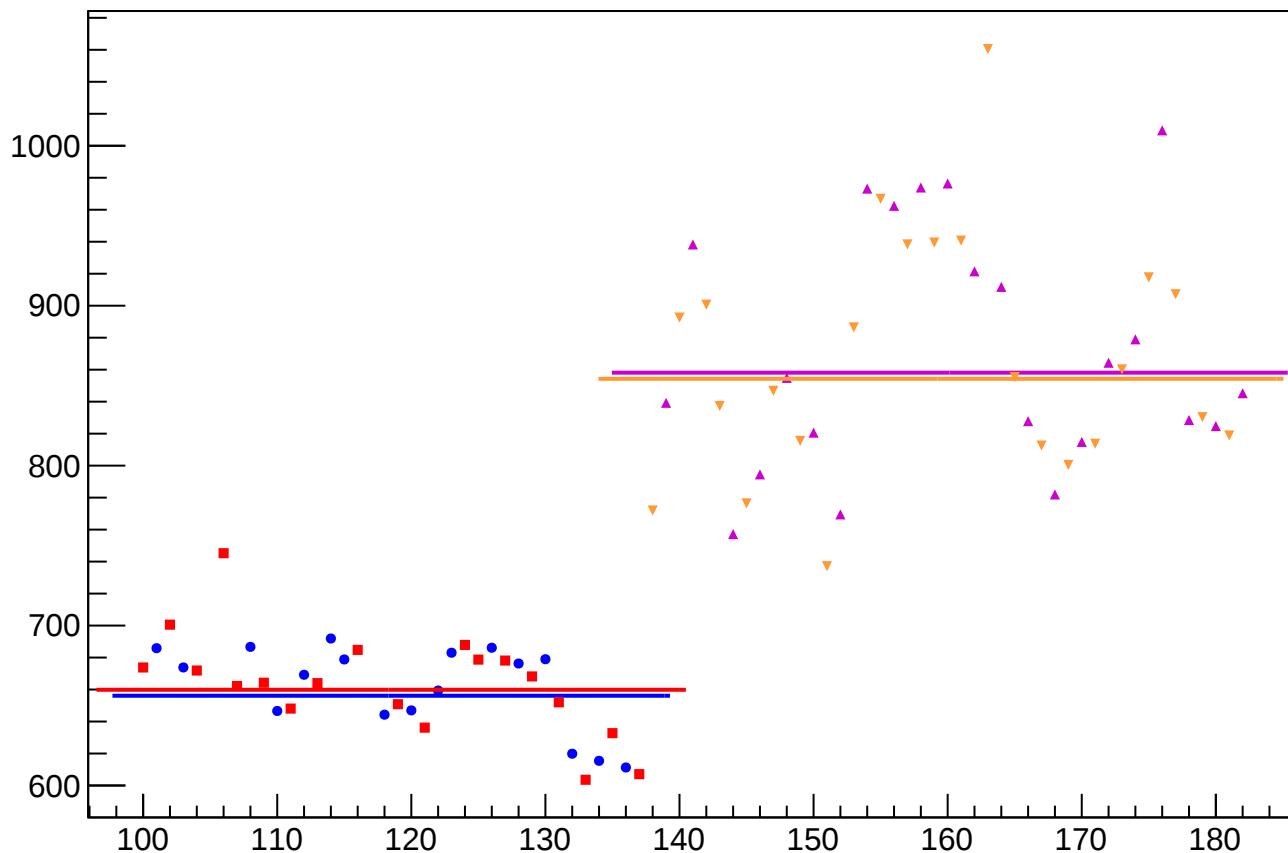
Right: 21.899 ± 0.177 $\chi^2/\text{NDF}: 15845.9/35$

In: -1.856 ± 0.161 $\chi^2/\text{NDF}: 40823.0/38$

Out: -1.978 ± 0.158 $\chi^2/\text{NDF}: 12642.0/41$

All: -1.918 ± 0.113 $\chi^2/\text{NDF}: 53465.3/80$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.132 $\pm$ 0.179 χ^2 /NDF: 23518.0/16

Left Out: 854.295 $\pm$ 0.146 χ^2 /NDF: 233856.9/22

Right Out: 659.855 $\pm$ 0.175 χ^2 /NDF: 28270.5/18

Left In: 858.129 $\pm$ 0.148 χ^2 /NDF: 238467.9/21

Left: 856.182 $\pm$ 0.104 χ^2 /NDF: 472666.5/44

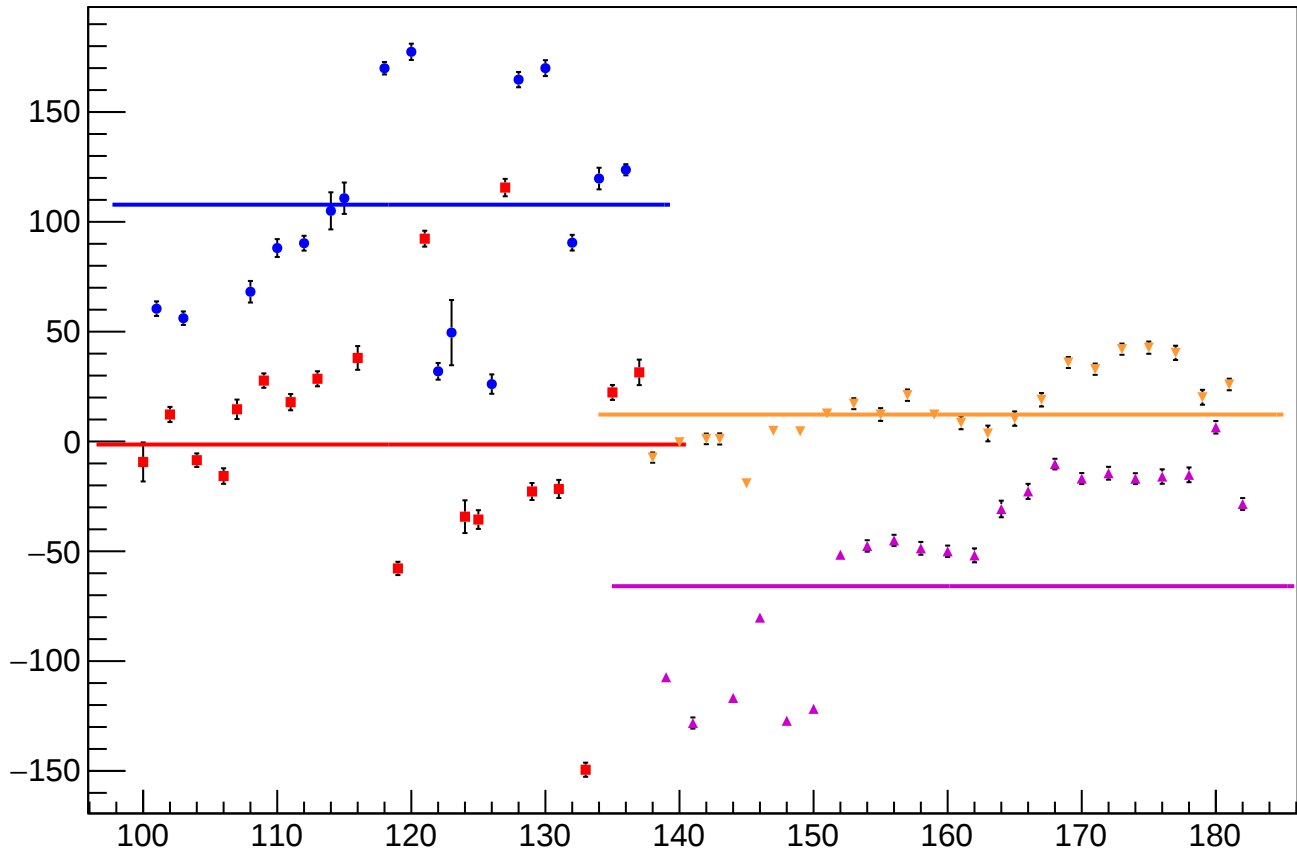
Right: 658.037 $\pm$ 0.125 χ^2 /NDF: 52009.7/35

In: 776.298 $\pm$ 0.114 χ^2 /NDF: 1018701.0/38

Out: 774.765 $\pm$ 0.112 χ^2 /NDF: 992126.9/41

All: 775.517 $\pm$ 0.080 χ^2 /NDF: 2010920.0/80

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.816 $\pm$ 0.923 χ^2 /NDF: 2815.8/16

Left Out: 12.255 $\pm$ 0.516 χ^2 /NDF: 964.1/22

Right Out: -1.388 $\pm$ 0.885 χ^2 /NDF: 4515.0/18

Left In: -65.884 $\pm$ 0.521 χ^2 /NDF: 7330.3/21

Left: -26.430 $\pm$ 0.366 χ^2 /NDF: 19663.4/44

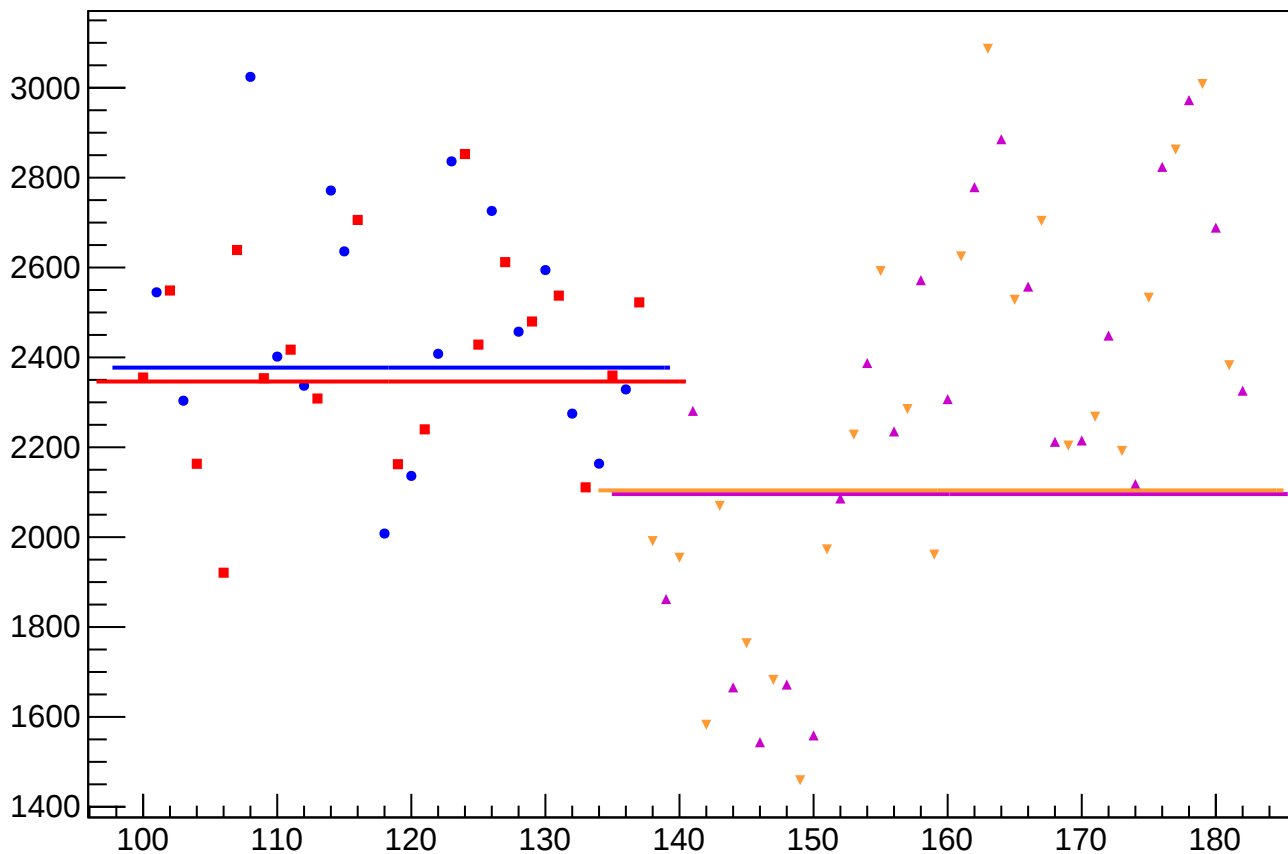
Right: 50.907 $\pm$ 0.639 χ^2 /NDF: 14624.3/35

In: -23.951 $\pm$ 0.454 χ^2 /NDF: 37007.2/38

Out: 8.797 $\pm$ 0.446 χ^2 /NDF: 5656.6/41

All: -7.285 $\pm$ 0.318 χ^2 /NDF: 45317.1/80

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.271 $\pm$ 0.653 χ^2 /NDF: 119441.2/16

Left Out: 2104.068 $\pm$ 0.365 χ^2 /NDF:1317341.6/22

Right Out: 2346.354 $\pm$ 0.626 χ^2 /NDF: 108612.6/18

Left In: 2095.884 $\pm$ 0.368 χ^2 /NDF:1341825.2/21

Left: 2100.016 $\pm$ 0.259 χ^2 /NDF: 2659416.3/44

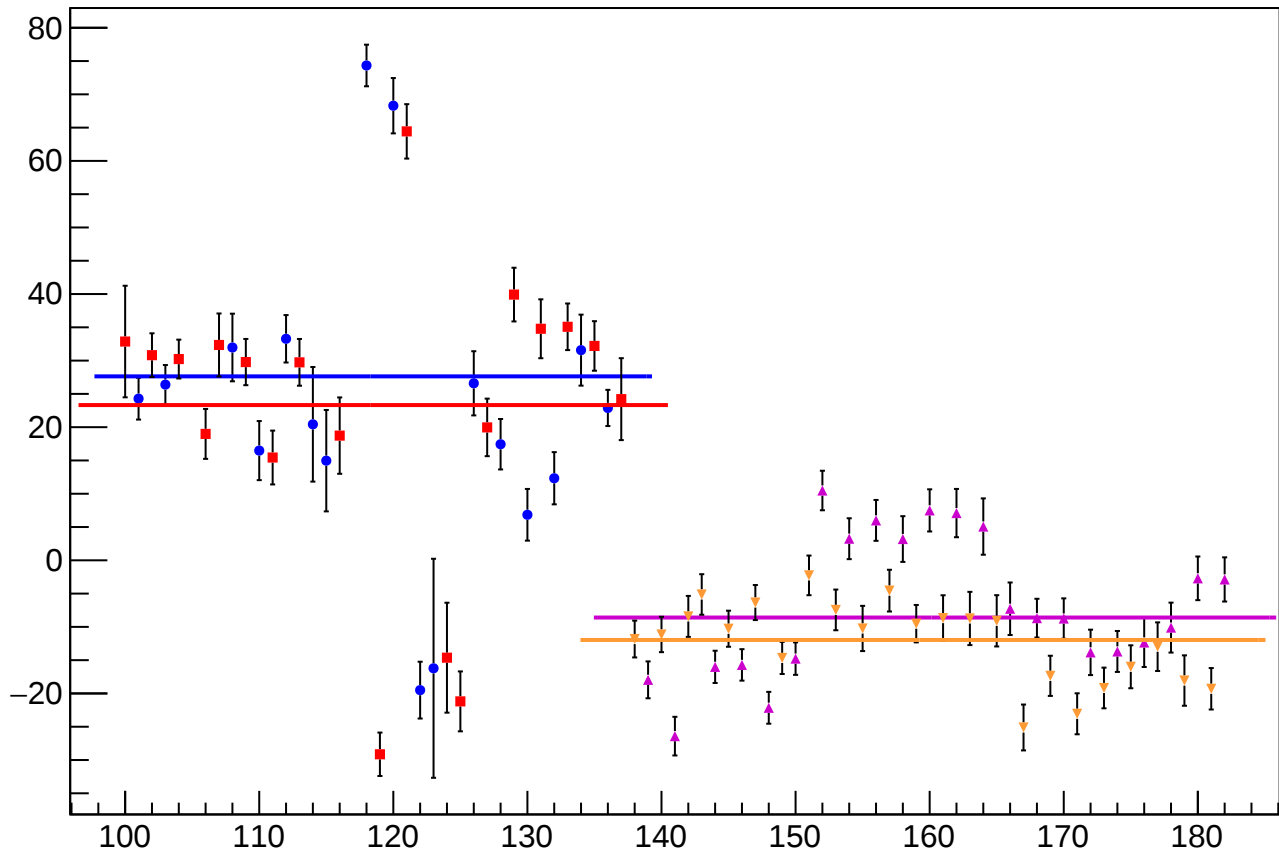
Right: 2361.159 $\pm$ 0.452 χ^2 /NDF: 229223.0/35

In: 2163.814 $\pm$ 0.321 χ^2 /NDF:1602249.7/38

Out: 2165.485 $\pm$ 0.315 χ^2 /NDF:1537887.8/41

All: 2164.664 $\pm$ 0.225 χ^2 /NDF: 3140151.3/80

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.633 ± 0.976 $\chi^2/\text{NDF}: 517.1/16$

Left Out: -11.964 ± 0.640 $\chi^2/\text{NDF}: 80.3/22$

Right Out: 23.322 ± 0.929 $\chi^2/\text{NDF}: 548.2/18$

Left In: -8.596 ± 0.646 $\chi^2/\text{NDF}: 264.2/21$

Left: -10.295 ± 0.455 $\chi^2/\text{NDF}: 358.2/44$

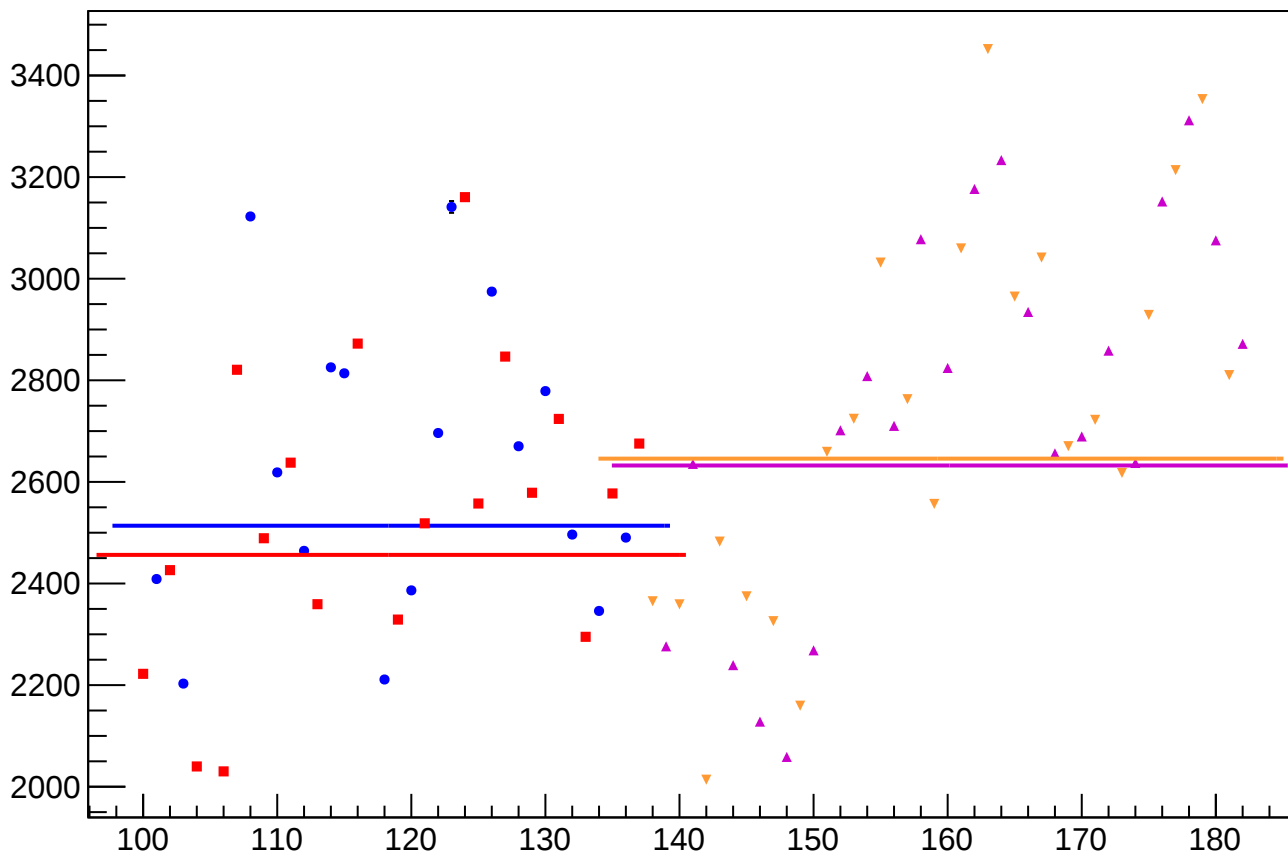
Right: 25.369 ± 0.673 $\chi^2/\text{NDF}: 1075.6/35$

In: 2.441 ± 0.539 $\chi^2/\text{NDF}: 1738.7/38$

Out: -0.590 ± 0.527 $\chi^2/\text{NDF}: 1607.1/41$

All: 0.892 ± 0.377 $\chi^2/\text{NDF}: 3362.0/80$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2513.762 $\pm$ 0.690 χ^2 /NDF: 120863.4/16

Left Out: 2645.812 $\pm$ 0.453 χ^2 /NDF: 587971.7/22

Right Out: 2456.343 $\pm$ 0.657 χ^2 /NDF: 149877.3/18

Left In: 2632.319 $\pm$ 0.457 χ^2 /NDF: 645394.8/21

Left: 2639.127 $\pm$ 0.322 χ^2 /NDF: 1233806.4/44

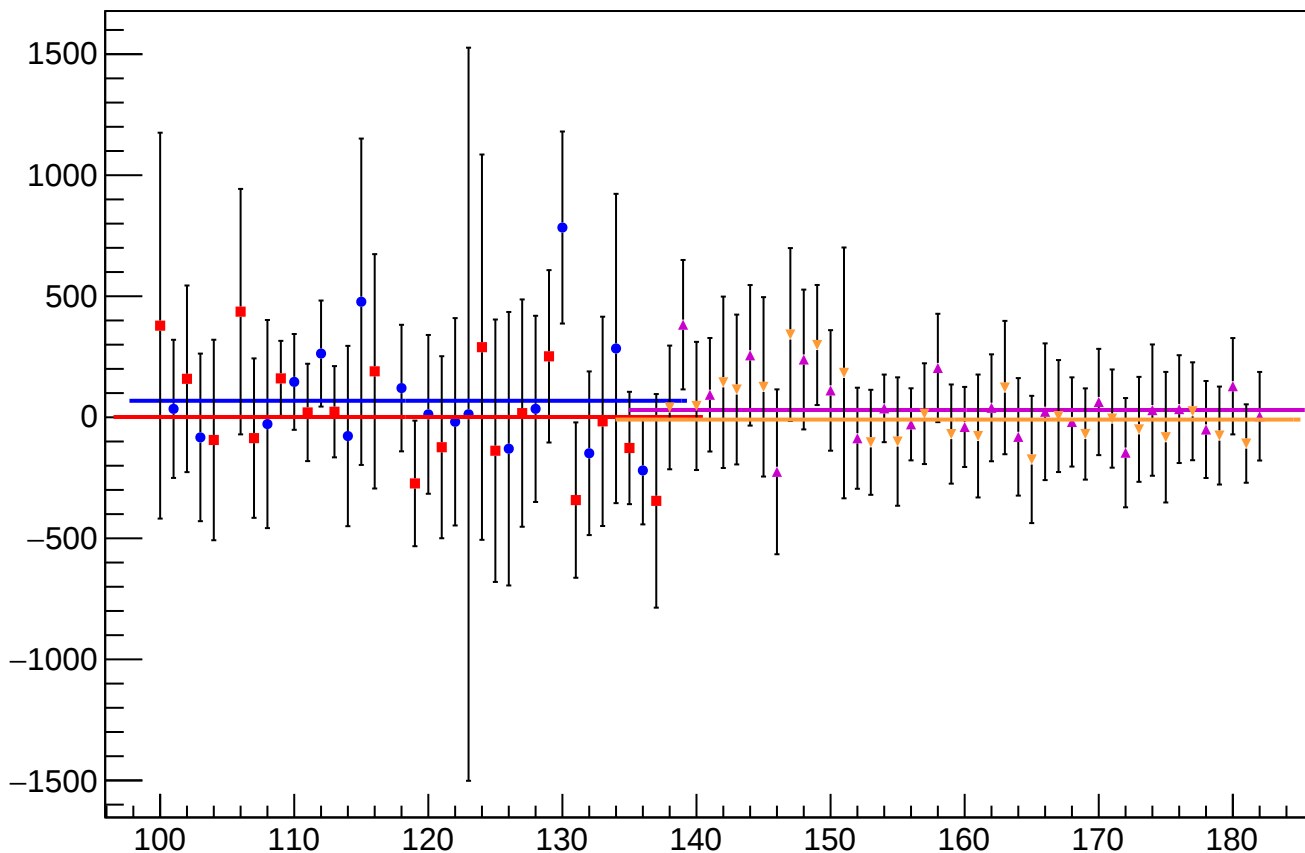
Right: 2483.612 $\pm$ 0.476 χ^2 /NDF: 274372.9/35

In: 2596.201 $\pm$ 0.381 χ^2 /NDF: 786764.4/38

Out: 2584.740 $\pm$ 0.373 χ^2 /NDF: 794283.6/41

All: 2590.344 $\pm$ 0.266 χ^2 /NDF: 1581510.2/80

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.238 $\pm$ 79.240 χ^2 /NDF: 7.4/16

Left Out: -9.397 $\pm$ 49.884 χ^2 /NDF: 5.0/22

Right Out: 1.201 $\pm$ 69.991 χ^2 /NDF: 6.5/18

Left In: 30.184 $\pm$ 45.162 χ^2 /NDF: 6.2/21

Left: 12.355 $\pm$ 33.480 χ^2 /NDF: 11.6/44

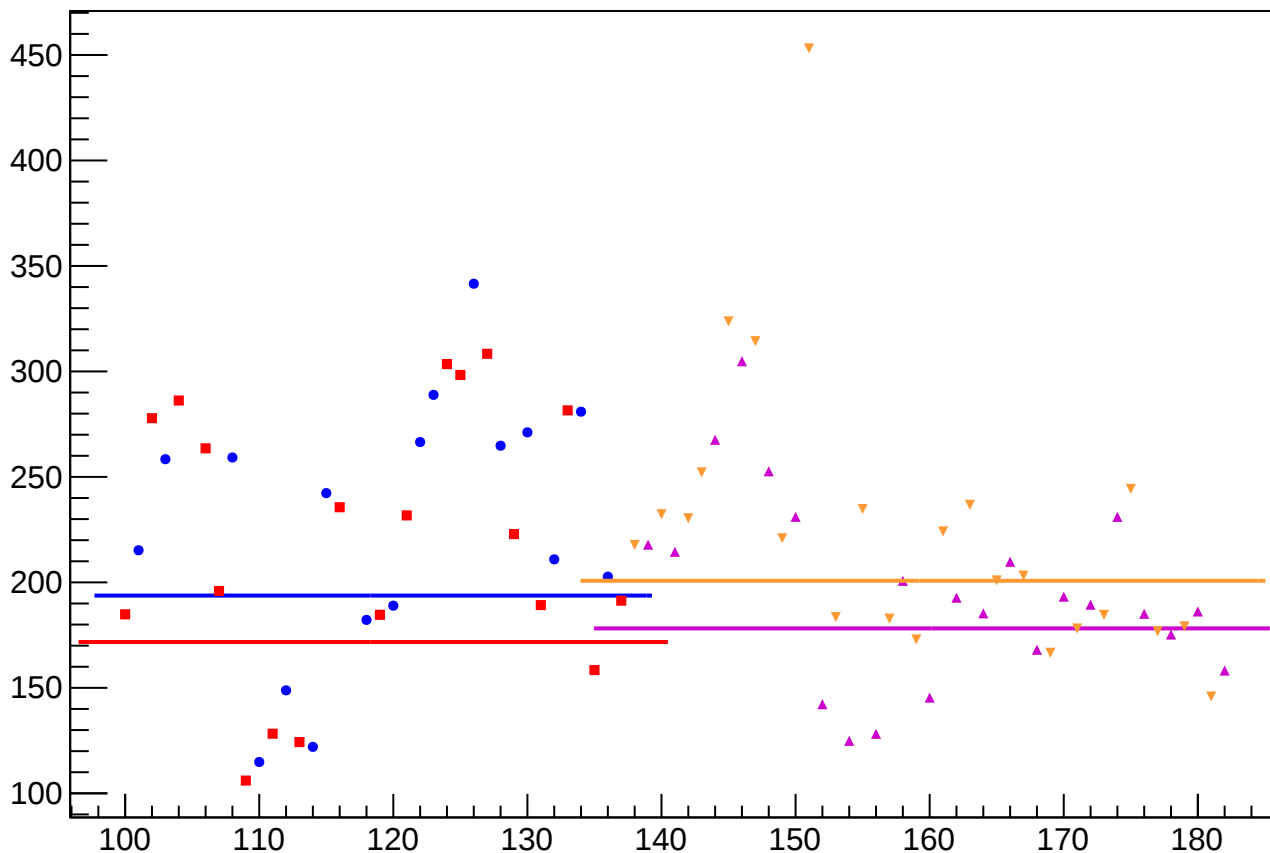
Right: 30.580 $\pm$ 52.458 χ^2 /NDF: 14.3/35

In: 39.515 $\pm$ 39.237 χ^2 /NDF: 13.8/38

Out: -5.827 $\pm$ 40.622 χ^2 /NDF: 11.5/41

All: 17.630 $\pm$ 28.222 χ^2 /NDF: 26.0/80

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: 200.766 $\pm$ 0.035 χ^2 /NDF: 1599784.1/22

Right Out: 171.741 $\pm$ 0.049 χ^2 /NDF: 1571422.7/18

Left In: 178.189 $\pm$ 0.032 χ^2 /NDF: 1618021.2/21

Left: 188.358 $\pm$ 0.024 χ^2 /NDF: 3442945.4/44

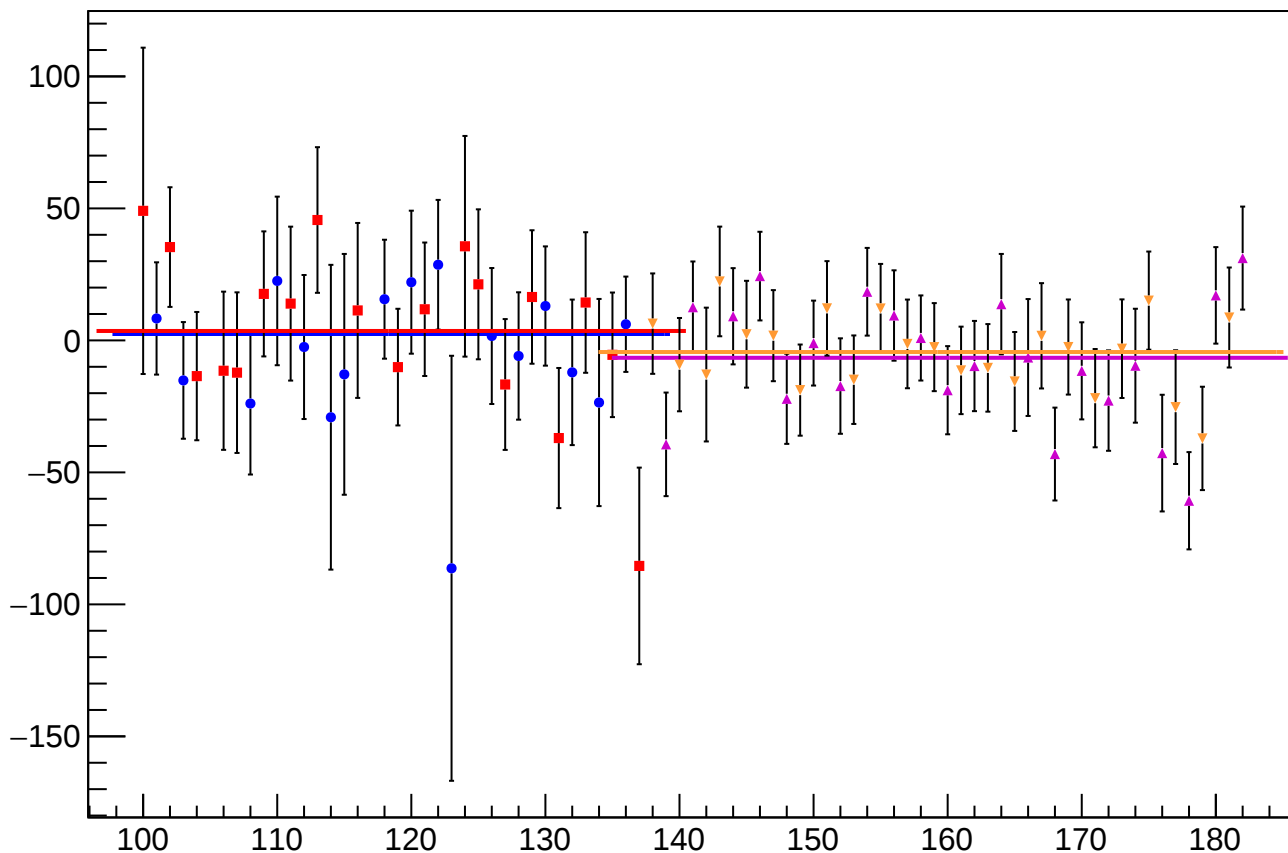
Right: 181.386 $\pm$ 0.037 χ^2 /NDF: 2669200.7/35

In: 182.004 $\pm$ 0.028 χ^2 /NDF: 2687348.8/38

Out: 190.988 $\pm$ 0.029 χ^2 /NDF: 3399286.5/41

All: 186.340 $\pm$ 0.020 χ^2 /NDF: 6137250.9/80

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.423+/-6.440 χ^2/NDF : 6.8/16

Left Out: -4.407+/-3.828 χ^2/NDF :12.3/22

Right Out: 3.569+/-6.294 χ^2/NDF : 17.1/18

Left In: -6.594+/-3.856 χ^2/NDF :36.4/21

Left: -5.493+/-2.717 χ^2/NDF : 48.8/44

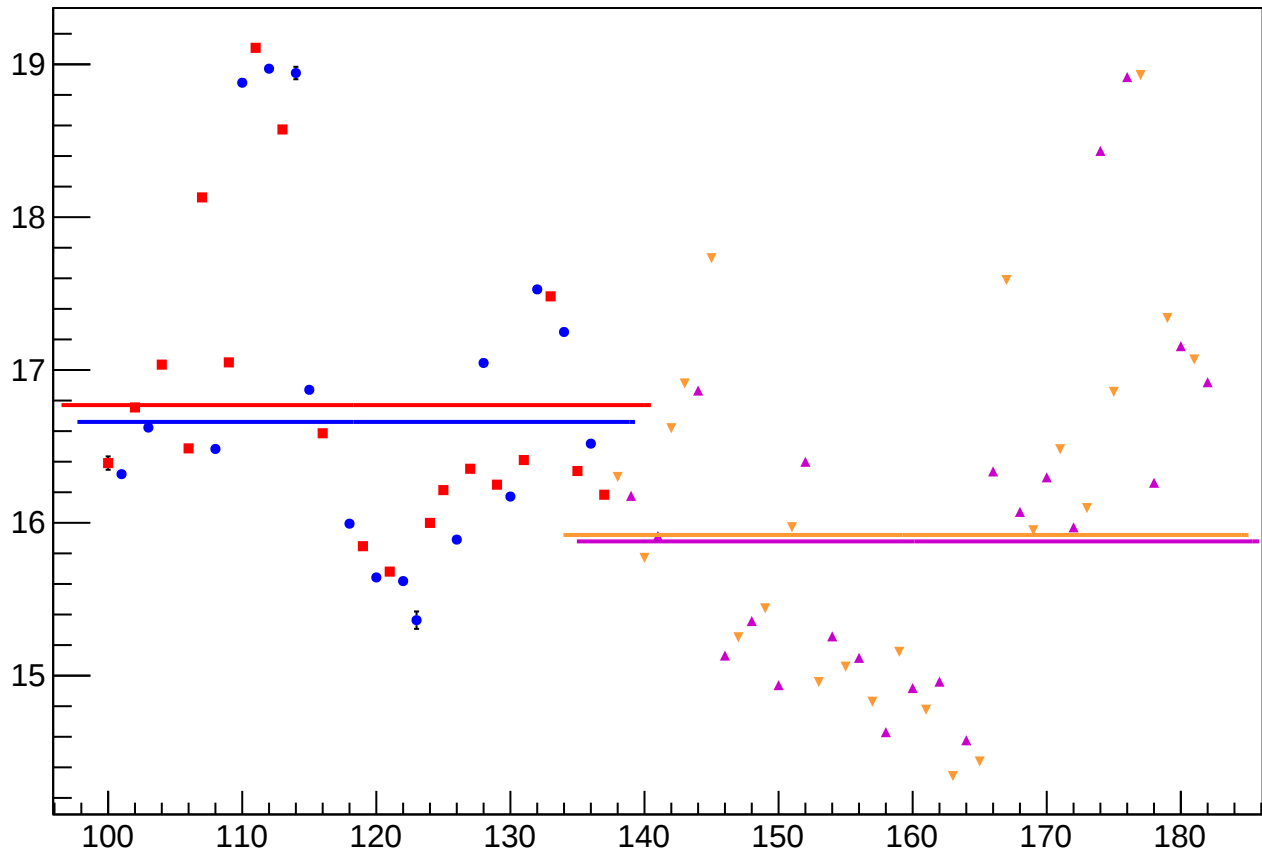
Right: 3.009+/-4.501 χ^2/NDF : 24.0/35

In: -4.215+/-3.309 χ^2/NDF :44.6/38

Out: -2.254+/-3.270 χ^2/NDF :30.6/41

All: -3.223+/-2.326 χ^2/NDF : 75.4/80

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: 15.921 $\pm$ 0.003 χ^2 /NDF:170130.0/22

Right Out: 16.770 $\pm$ 0.004 χ^2 /NDF: 39259.2/18

Left In: 15.879 $\pm$ 0.003 χ^2 /NDF:145485.2/21

Left: 15.900 $\pm$ 0.002 χ^2 /NDF: 315734.8/44

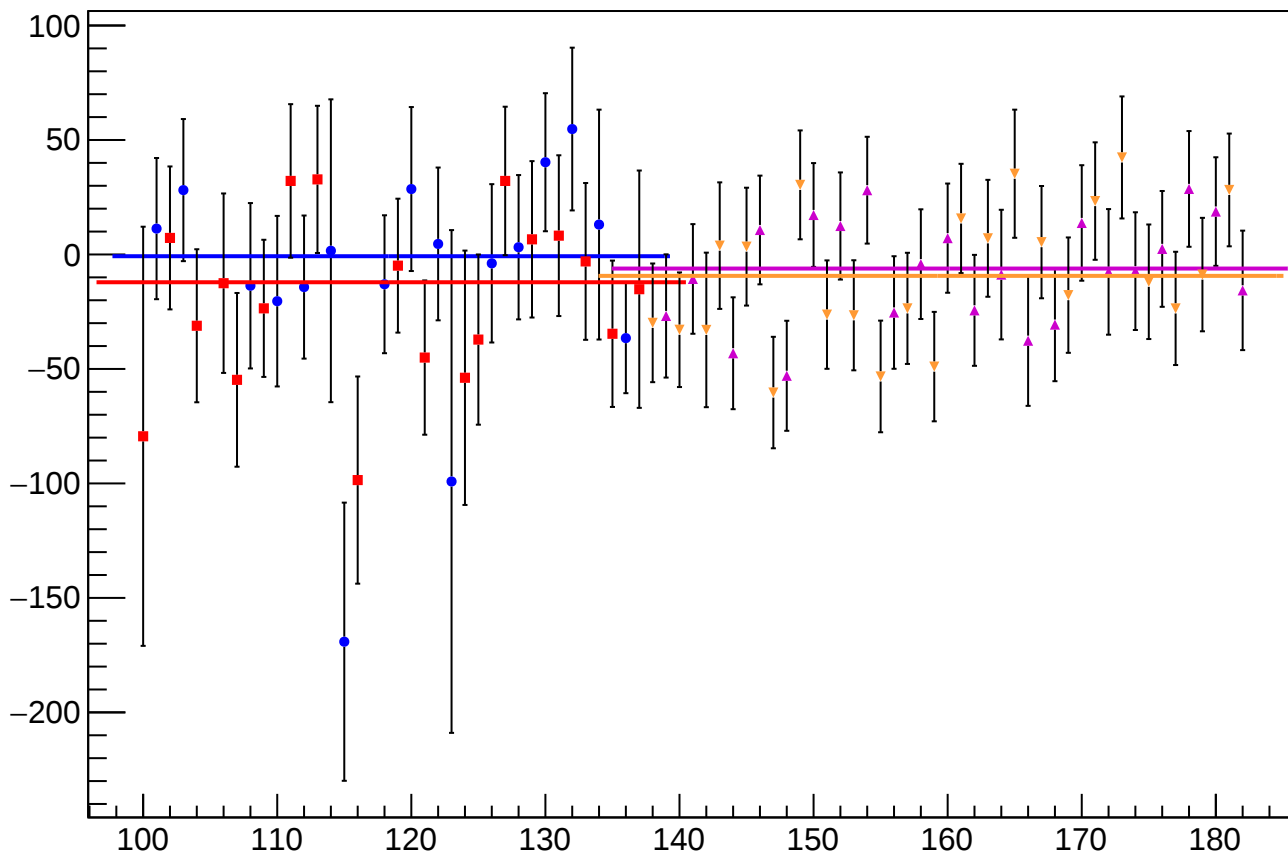
Right: 16.717 $\pm$ 0.003 χ^2 /NDF: 81827.4/35

In: 16.085 $\pm$ 0.002 χ^2 /NDF:209445.4/38

Out: 16.150 $\pm$ 0.002 χ^2 /NDF:236005.2/41

All: 16.118 $\pm$ 0.002 χ^2 /NDF: 445842.7/80

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.764 ± 8.505 χ^2/NDF : 17.6/16

Left Out: -9.346 ± 5.261 χ^2/NDF : 29.6/22

Right Out: -12.135 ± 8.228 χ^2/NDF : 15.1/18

Left In: -6.151 ± 5.294 χ^2/NDF : 18.7/21

Left: -7.758 ± 3.732 χ^2/NDF : 48.4/44

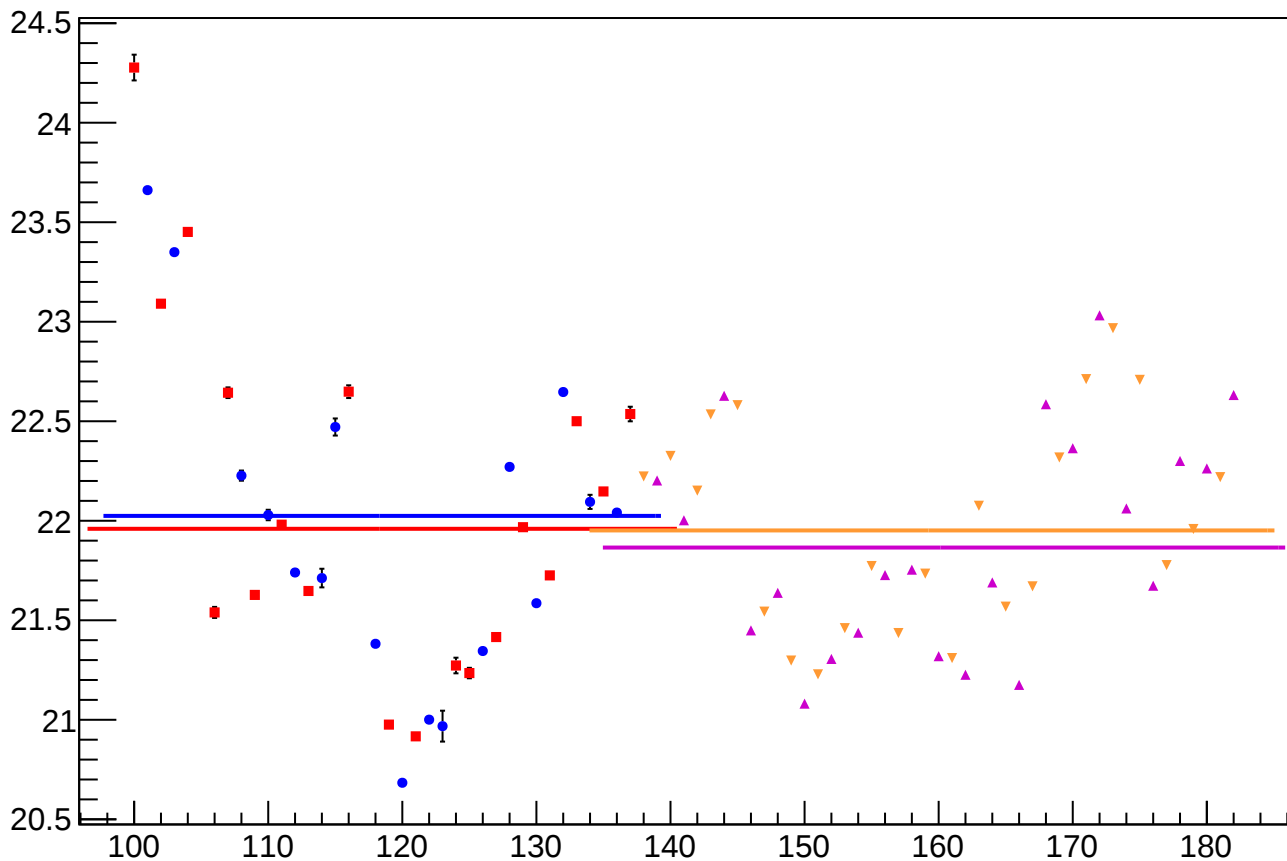
Right: -6.638 ± 5.914 χ^2/NDF : 33.6/35

In: -4.647 ± 4.494 χ^2/NDF : 36.5/38

Out: -10.155 ± 4.433 χ^2/NDF : 44.8/41

All: -7.439 ± 3.156 χ^2/NDF : 82.0/80

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: 21.951 ± 0.004 $\chi^2/\text{NDF}: 18151.9/22$

Right Out: 21.960 ± 0.006 $\chi^2/\text{NDF}: 16383.4/18$

Left In: 21.865 ± 0.004 $\chi^2/\text{NDF}: 20340.6/21$

Left: 21.909 ± 0.003 $\chi^2/\text{NDF}: 38758.2/44$

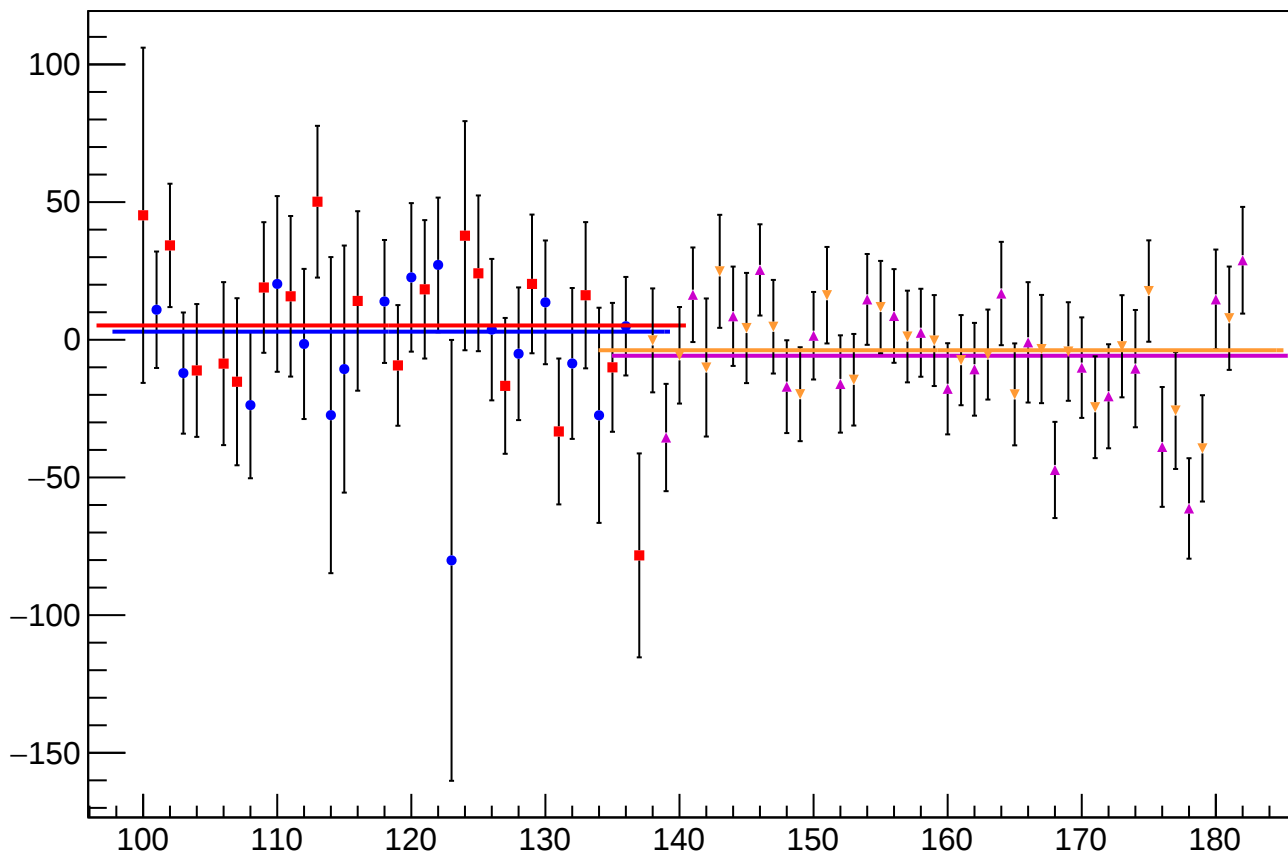
Right: 21.991 ± 0.004 $\chi^2/\text{NDF}: 33824.6/35$

In: 21.910 ± 0.003 $\chi^2/\text{NDF}: 38226.0/38$

Out: 21.954 ± 0.003 $\chi^2/\text{NDF}: 34536.8/41$

All: 21.932 ± 0.002 $\chi^2/\text{NDF}: 72859.8/80$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.948+/-6.404 χ^2/NDF : 6.3/16

Left Out: -3.803+/-3.786 χ^2/NDF : 14.4/22

Right Out: 5.199+/-6.258 χ^2/NDF : 17.2/18

Left In: -5.801+/-3.815 χ^2/NDF : 36.2/21

Left: -4.794+/-2.688 χ^2/NDF : 50.7/44

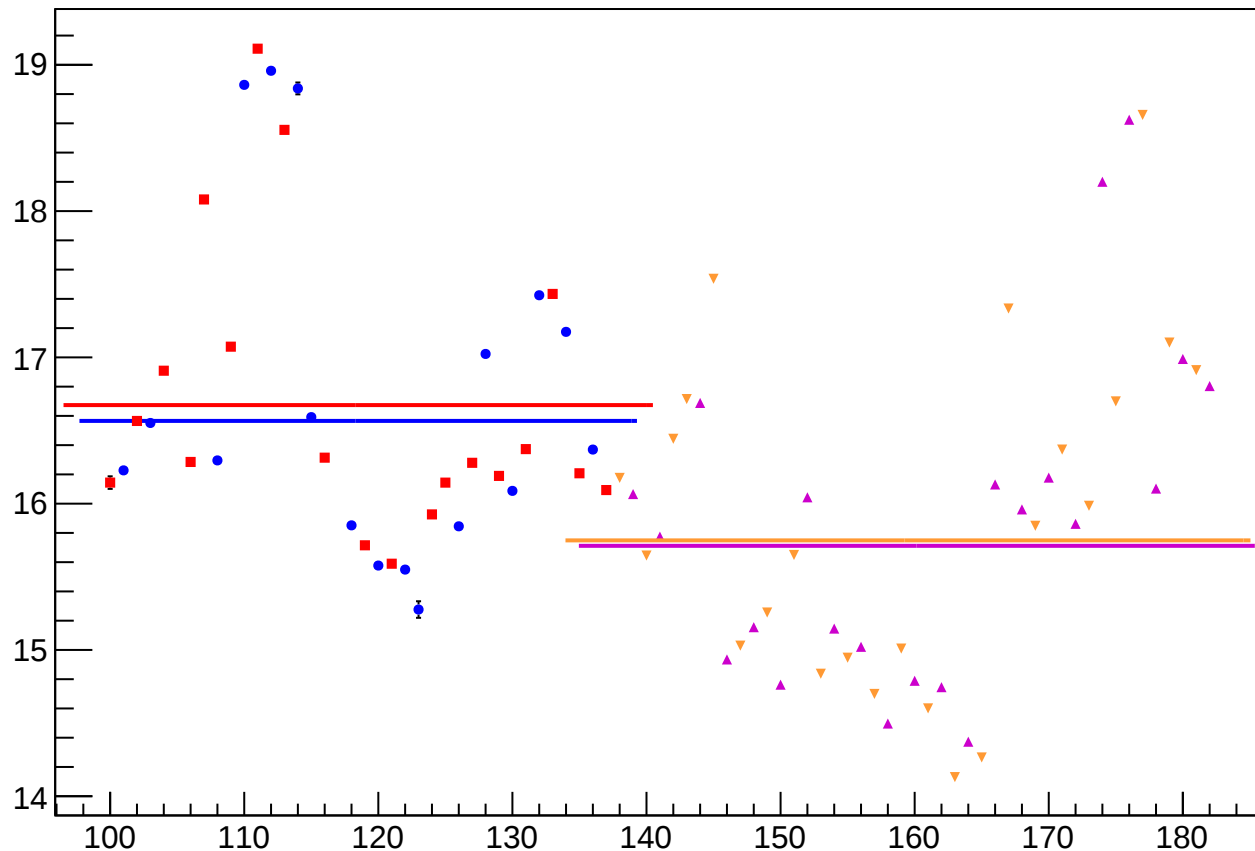
Right: 4.100+/-4.476 χ^2/NDF : 23.5/35

In: -3.509+/-3.278 χ^2/NDF : 43.8/38

Out: -1.391+/-3.240 χ^2/NDF : 33.0/41

All: -2.438+/-2.304 χ^2/NDF : 77.1/80

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.566 $\pm$ 0.005 χ^2 /NDF: 44242.8/16

Left Out: 15.749 $\pm$ 0.003 χ^2 /NDF:169238.4/22

Right Out: 16.674 $\pm$ 0.004 χ^2 /NDF: 42453.5/18

Left In: 15.712 $\pm$ 0.003 χ^2 /NDF:144117.2/21

Left: 15.731 $\pm$ 0.002 χ^2 /NDF: 313451.0/44

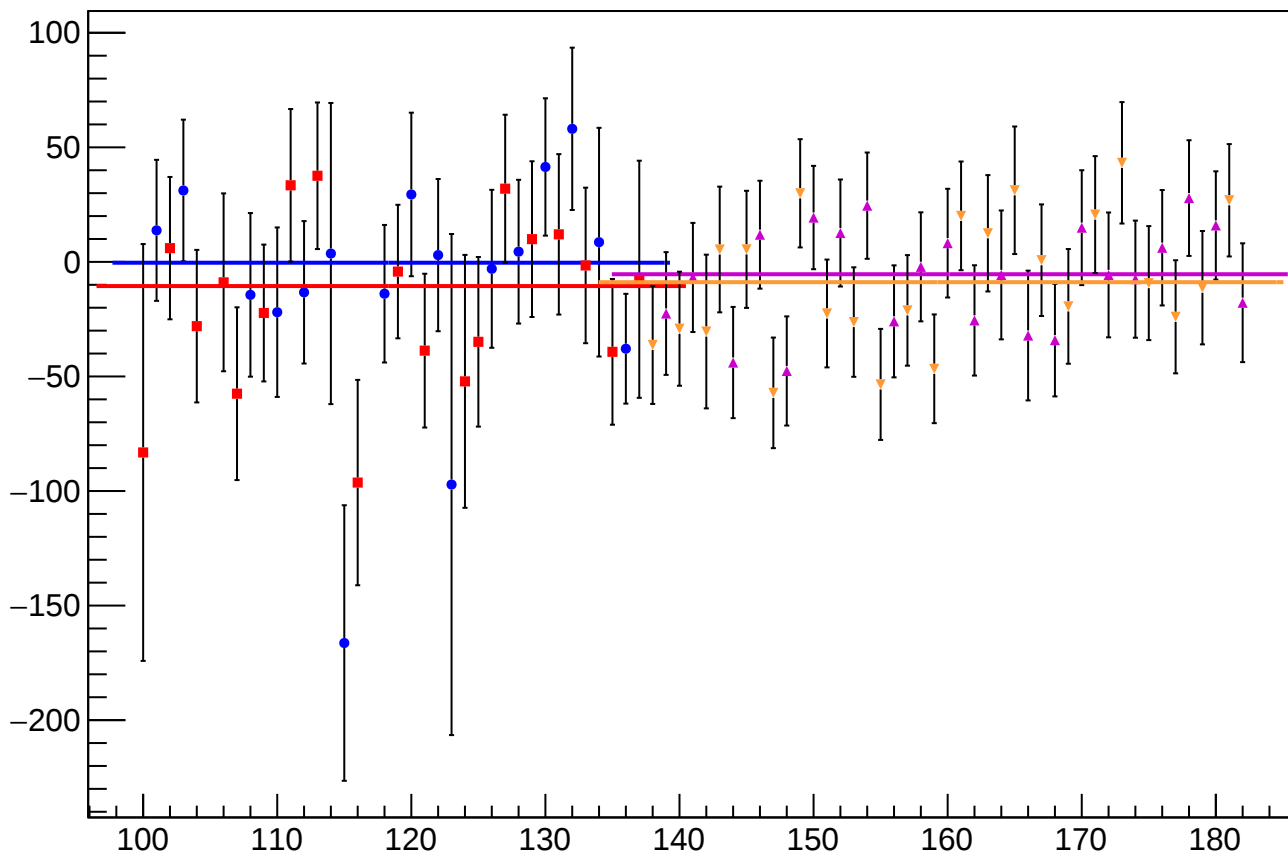
Right: 16.621 $\pm$ 0.003 χ^2 /NDF: 86987.8/35

In: 15.936 $\pm$ 0.002 χ^2 /NDF:214604.7/38

Out: 15.997 $\pm$ 0.002 χ^2 /NDF:243669.7/41

All: 15.967 $\pm$ 0.002 χ^2 /NDF: 458627.6/80

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: -8.851 ± 5.231 χ^2/NDF : 28.9/22

Right Out: -10.548 ± 8.187 χ^2/NDF : 15.7/18

Left In: -5.384 ± 5.264 χ^2/NDF : 17.7/21

Left: -7.129 ± 3.711 χ^2/NDF : 46.8/44

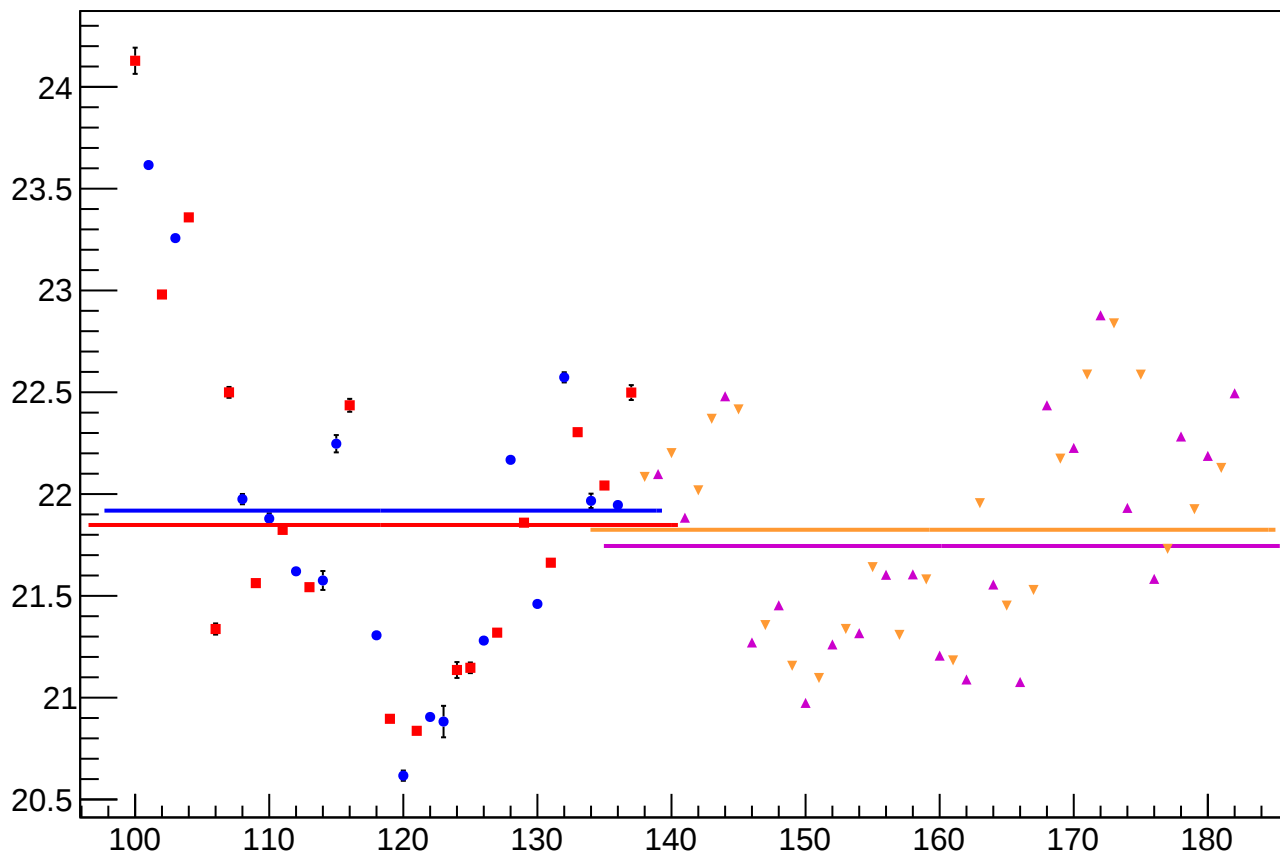
Right: -5.623 ± 5.885 χ^2/NDF : 34.9/35

In: -3.982 ± 4.470 χ^2/NDF : 36.4/38

Out: -9.343 ± 4.408 χ^2/NDF : 44.6/41

All: -6.700 ± 3.139 χ^2/NDF : 81.8/80

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: 21.825 $\pm$ 0.004 χ^2 /NDF:18445.3/22

Right Out: 21.848 $\pm$ 0.006 χ^2 /NDF: 16031.9/18

Left In: 21.745 $\pm$ 0.004 χ^2 /NDF:20341.5/21

Left: 21.785 $\pm$ 0.003 χ^2 /NDF: 39017.3/44

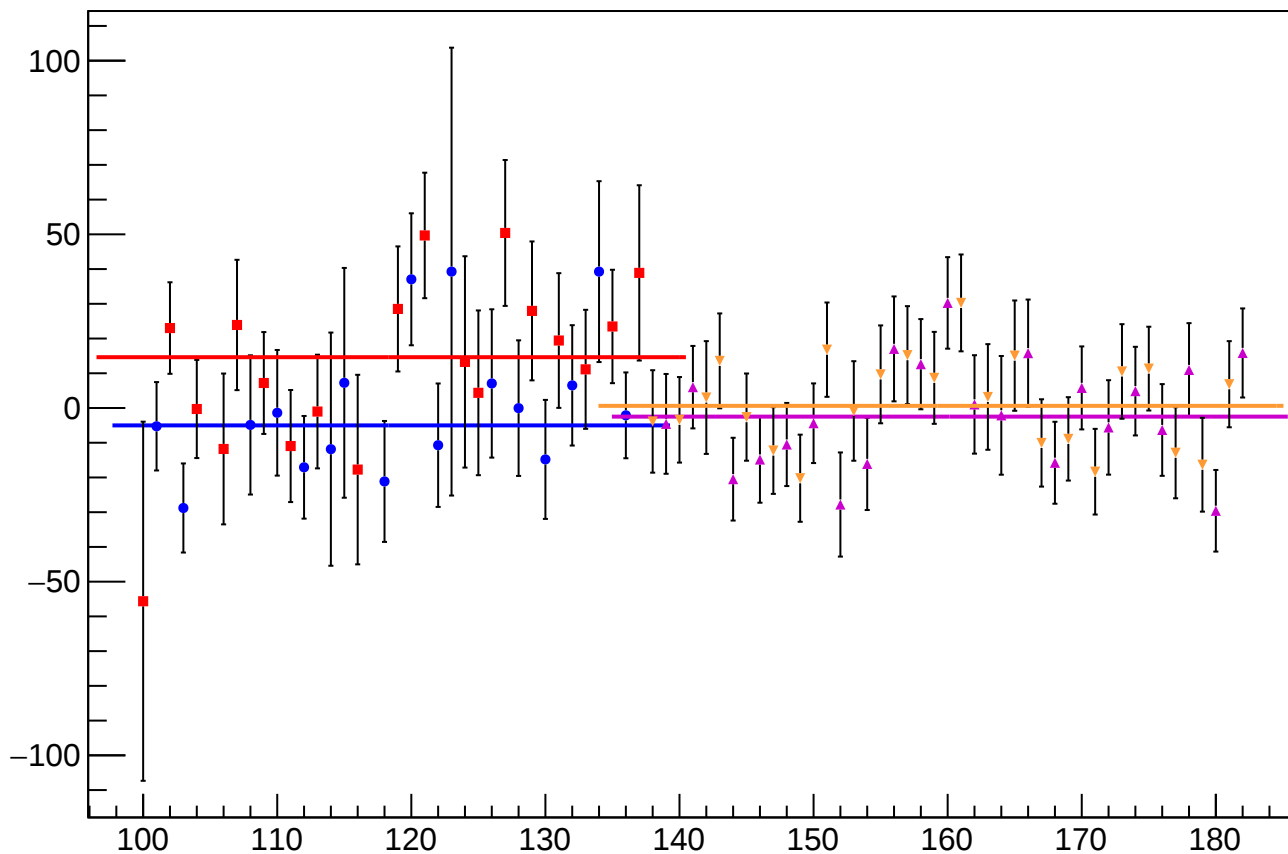
Right: 21.882 $\pm$ 0.004 χ^2 /NDF: 33745.4/35

In: 21.793 $\pm$ 0.003 χ^2 /NDF:38590.6/38

Out: 21.831 $\pm$ 0.003 χ^2 /NDF:34488.9/41

All: 21.813 $\pm$ 0.002 χ^2 /NDF: 73152.8/80

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.010 ± 4.334 χ^2/NDF : 14.8/16

Left Out: 0.621 ± 2.786 χ^2/NDF : 21.6/22

Right Out: 14.630 ± 4.270 χ^2/NDF : 19.4/18

Left In: -2.483 ± 2.783 χ^2/NDF : 29.4/21

Left: -0.933 ± 1.969 χ^2/NDF : 51.6/44

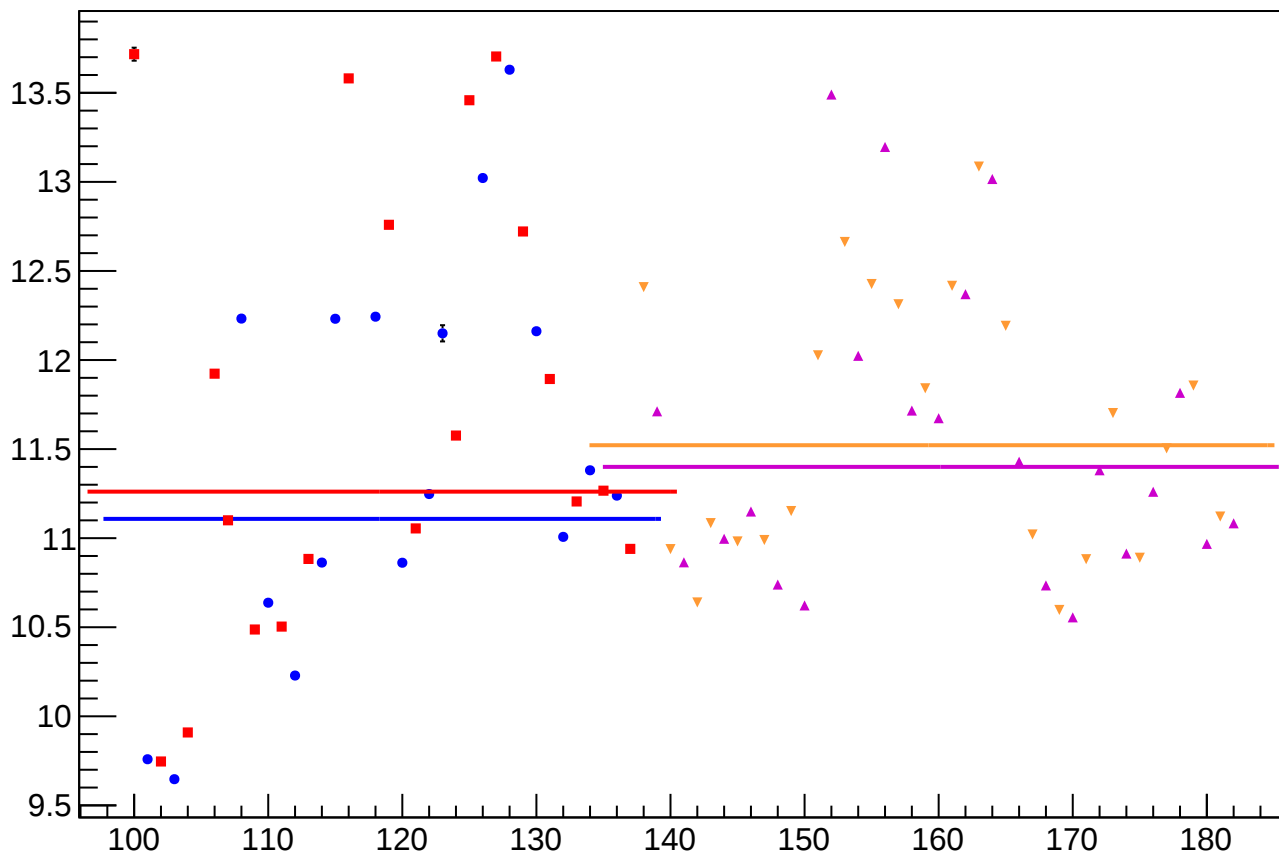
Right: 4.955 ± 3.042 χ^2/NDF : 44.6/35

In: -3.221 ± 2.342 χ^2/NDF : 44.4/38

Out: 4.803 ± 2.333 χ^2/NDF : 48.5/41

All: 0.806 ± 1.653 χ^2/NDF : 98.8/80

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.108+/-0.003 χ^2/NDF : 132594.7/16

Left Out: 11.522+/-0.002 χ^2/NDF :122457.1/22

Right Out: 11.261+/-0.003 χ^2/NDF : 148448.6/18

Left In: 11.400+/-0.002 χ^2/NDF :149616.3/21

Left: 11.461+/-0.001 χ^2/NDF : 273979.4/44

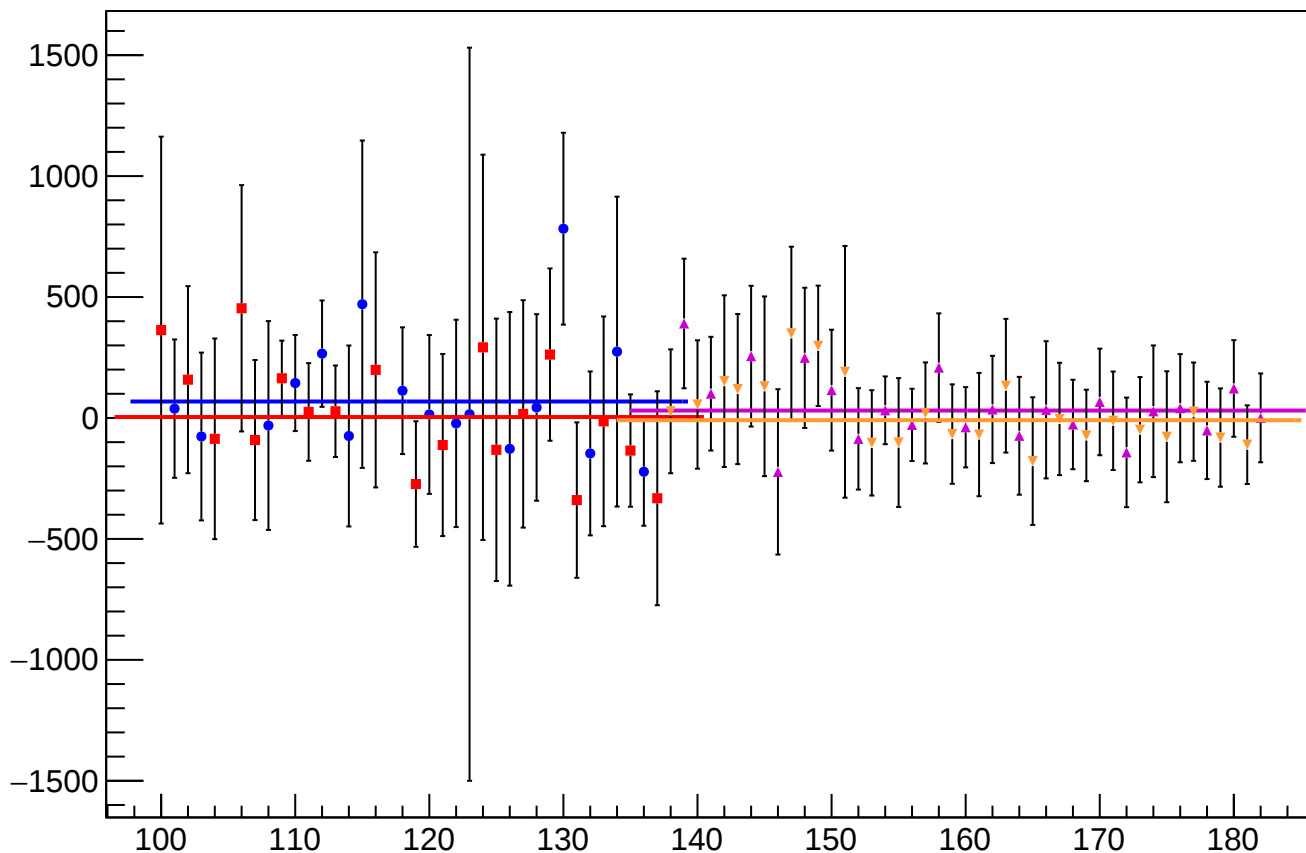
Right: 11.186+/-0.002 χ^2/NDF : 282306.4/35

In: 11.315+/-0.002 χ^2/NDF :288636.1/38

Out: 11.444+/-0.002 χ^2/NDF :276129.4/41

All: 11.380+/-0.001 χ^2/NDF : 567811.1/80

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.114 $\pm$ 79.449 χ^2 /NDF: 7.4/16

Left Out: -9.238 $\pm$ 50.068 χ^2 /NDF: 5.2/22

Right Out: 3.876 $\pm$ 70.195 χ^2 /NDF: 6.5/18

Left In: 30.758 $\pm$ 45.322 χ^2 /NDF: 6.3/21

Left: 12.745 $\pm$ 33.601 χ^2 /NDF: 11.8/44

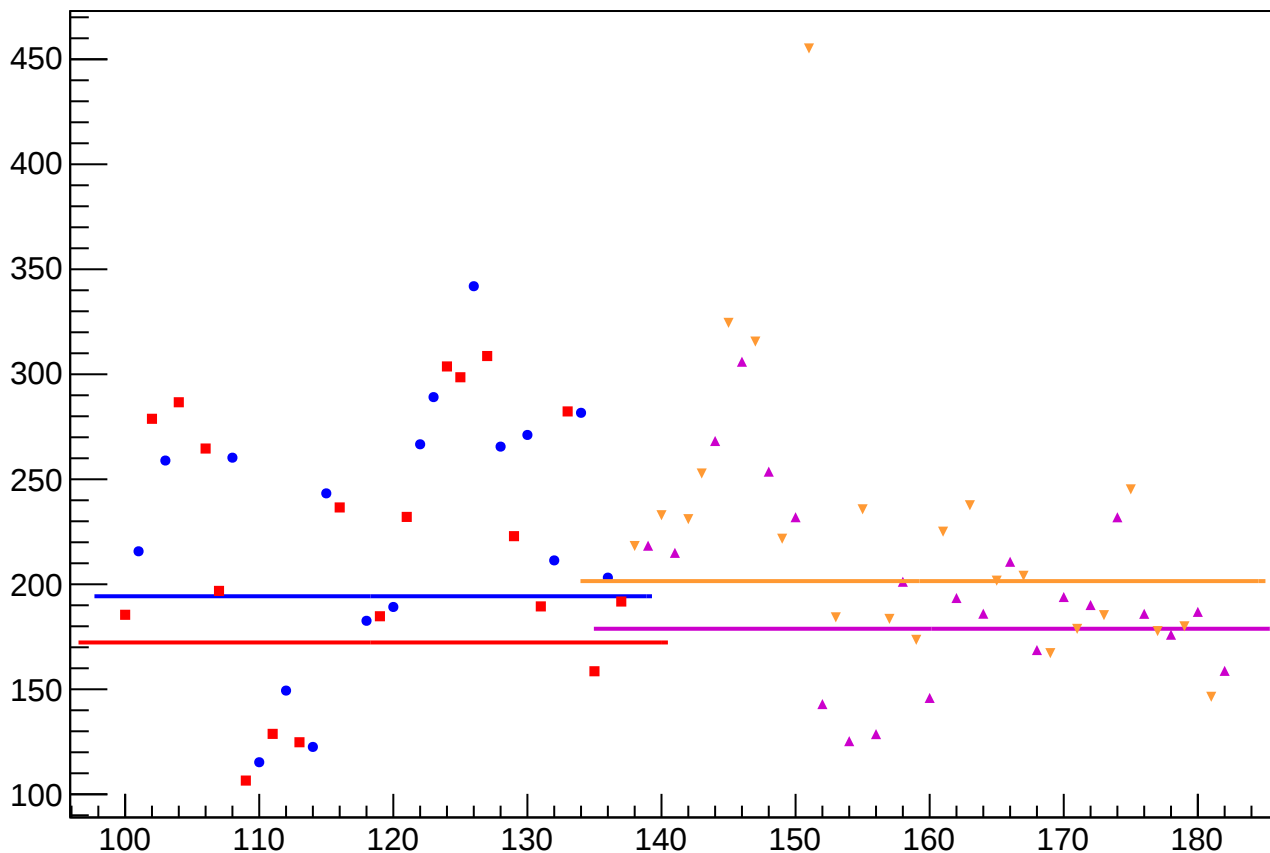
Right: 32.037 $\pm$ 52.604 χ^2 /NDF: 14.3/35

In: 39.930 $\pm$ 39.367 χ^2 /NDF: 13.8/38

Out: -4.816 $\pm$ 40.762 χ^2 /NDF: 11.7/41

All: 18.335 $\pm$ 28.317 χ^2 /NDF: 26.2/80

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: 201.515 $\pm$ 0.035 χ^2 /NDF:1597303.3/22

Right Out: 172.293 $\pm$ 0.050 χ^2 /NDF: 1564135.2/18

Left In: 178.824 $\pm$ 0.032 χ^2 /NDF:1616302.2/21

Left: 189.043 $\pm$ 0.024 χ^2 /NDF: 3439394.8/44

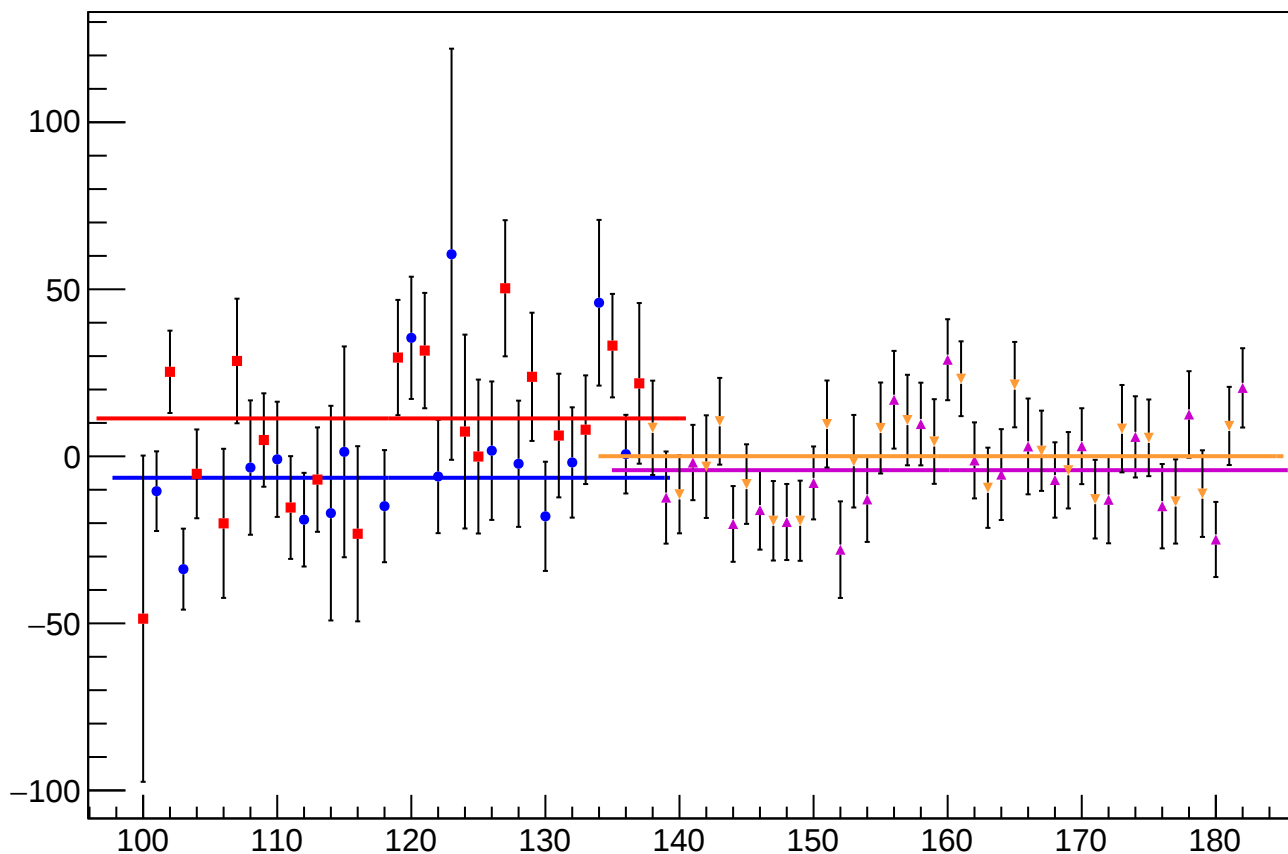
Right: 181.940 $\pm$ 0.037 χ^2 /NDF: 2656513.7/35

In: 182.623 $\pm$ 0.028 χ^2 /NDF:2679758.8/38

Out: 191.661 $\pm$ 0.029 χ^2 /NDF:3391174.9/41

All: 186.985 $\pm$ 0.020 χ^2 /NDF: 6121810.9/80

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: 0.040 ± 2.603 χ^2/NDF : 21.6/22

Right Out: 11.351 ± 4.084 χ^2/NDF : 22.6/18

Left In: -4.142 ± 2.612 χ^2/NDF : 31.4/21

Left: -2.044 ± 1.844 χ^2/NDF : 54.3/44

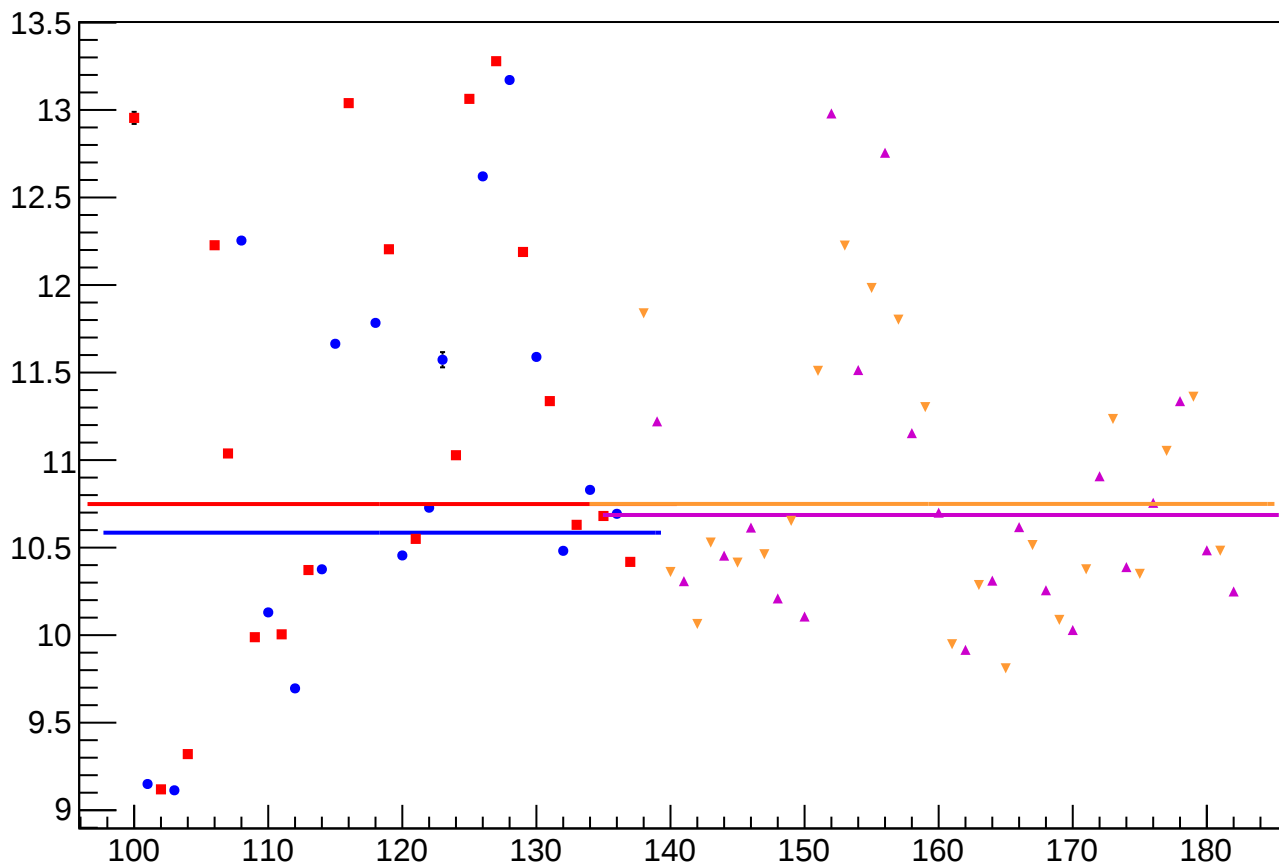
Right: 2.582 ± 2.907 χ^2/NDF : 50.6/35

In: -4.791 ± 2.209 χ^2/NDF : 50.2/38

Out: 3.307 ± 2.195 χ^2/NDF : 49.7/41

All: -0.717 ± 1.557 χ^2/NDF : 106.7/80

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: 10.750 $\pm$ 0.002 χ^2 /NDF:128730.6/22

Right Out: 10.749 $\pm$ 0.003 χ^2 /NDF: 177905.9/18

Left In: 10.686 $\pm$ 0.002 χ^2 /NDF:147593.3/21

Left: 10.718 $\pm$ 0.001 χ^2 /NDF: 276910.1/44

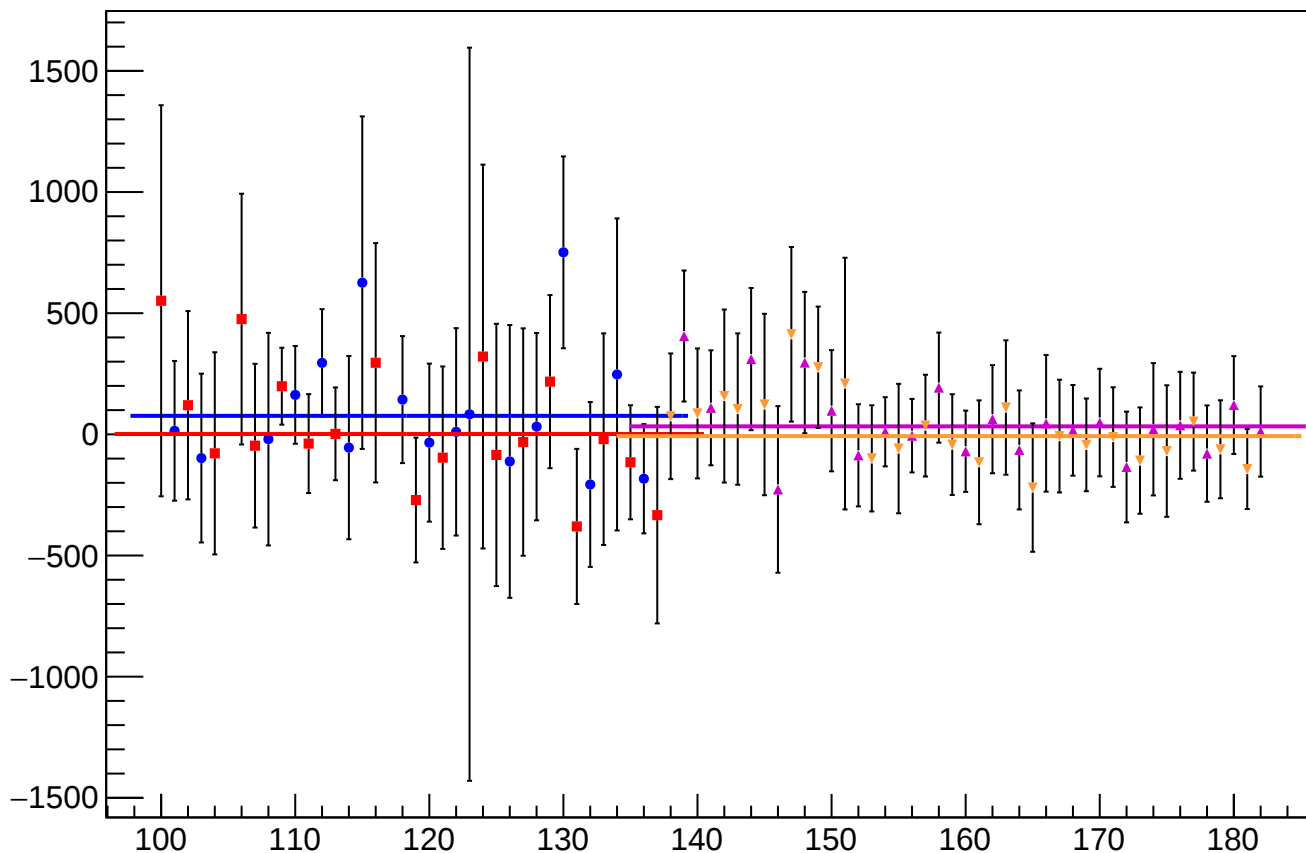
Right: 10.668 $\pm$ 0.002 χ^2 /NDF: 339301.3/35

In: 10.658 $\pm$ 0.002 χ^2 /NDF:308260.6/38

Out: 10.749 $\pm$ 0.002 χ^2 /NDF:306636.5/41

All: 10.704 $\pm$ 0.001 χ^2 /NDF: 616632.5/80

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: -7.324 $\pm$ 50.368 χ^2 /NDF: 5.9/22

Right Out: 1.355 $\pm$ 70.867 χ^2 /NDF: 7.4/18

Left In: 33.005 $\pm$ 45.680 χ^2 /NDF: 6.9/21

Left: 14.804 $\pm$ 33.837 χ^2 /NDF: 13.2/44

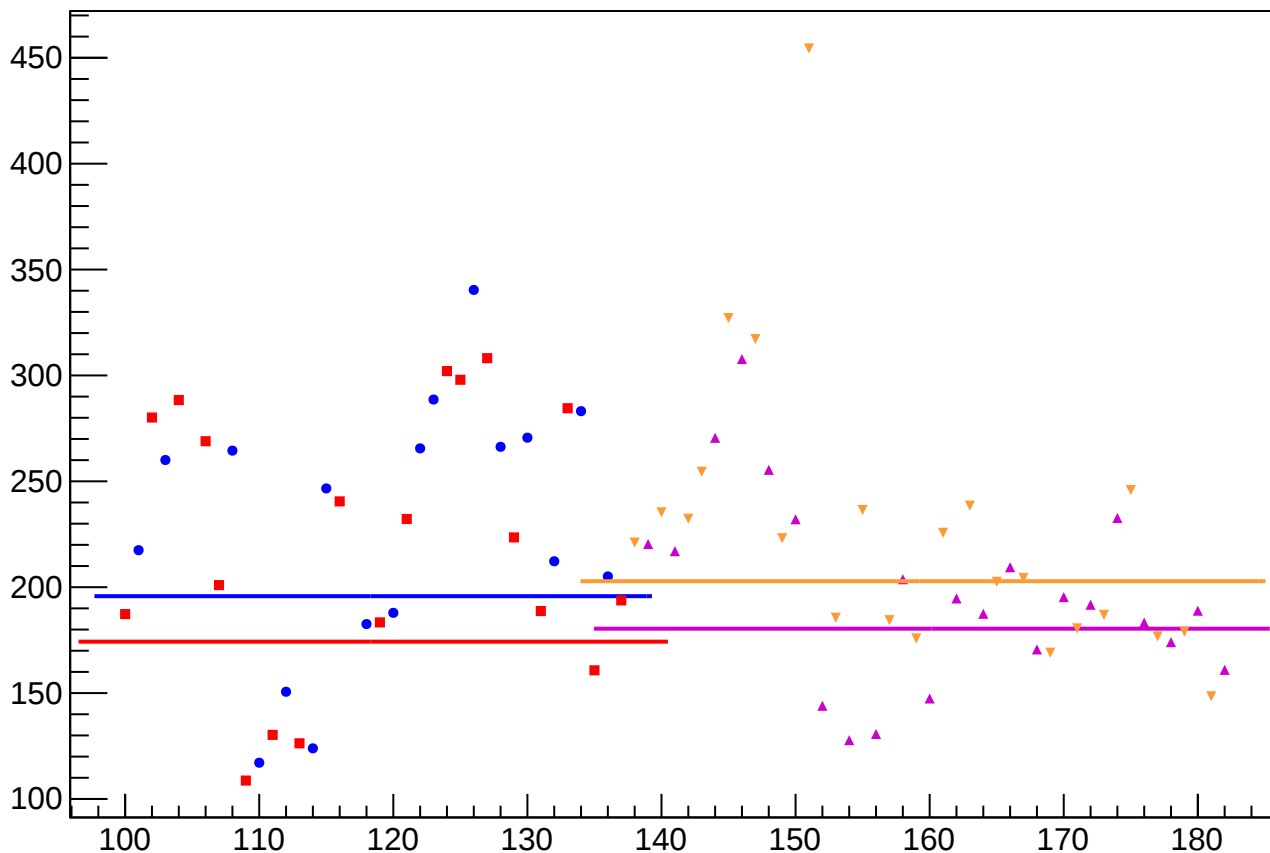
Right: 34.364 $\pm$ 53.038 χ^2 /NDF: 15.5/35

In: 43.680 $\pm$ 39.665 χ^2 /NDF: 14.7/38

Out: -4.411 $\pm$ 41.055 χ^2 /NDF: 13.3/41

All: 20.462 $\pm$ 28.526 χ^2 /NDF: 28.7/80

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.766+/-0.057 χ^2/NDF : 980914.1/16

Left Out: 202.834+/-0.036 χ^2/NDF :1579381.5/22

Right Out: 174.286+/-0.050 χ^2/NDF : 1523733.5/18

Left In: 180.420+/-0.032 χ^2/NDF :1568692.6/21

Left: 190.536+/-0.024 χ^2/NDF : 3365390.8/44

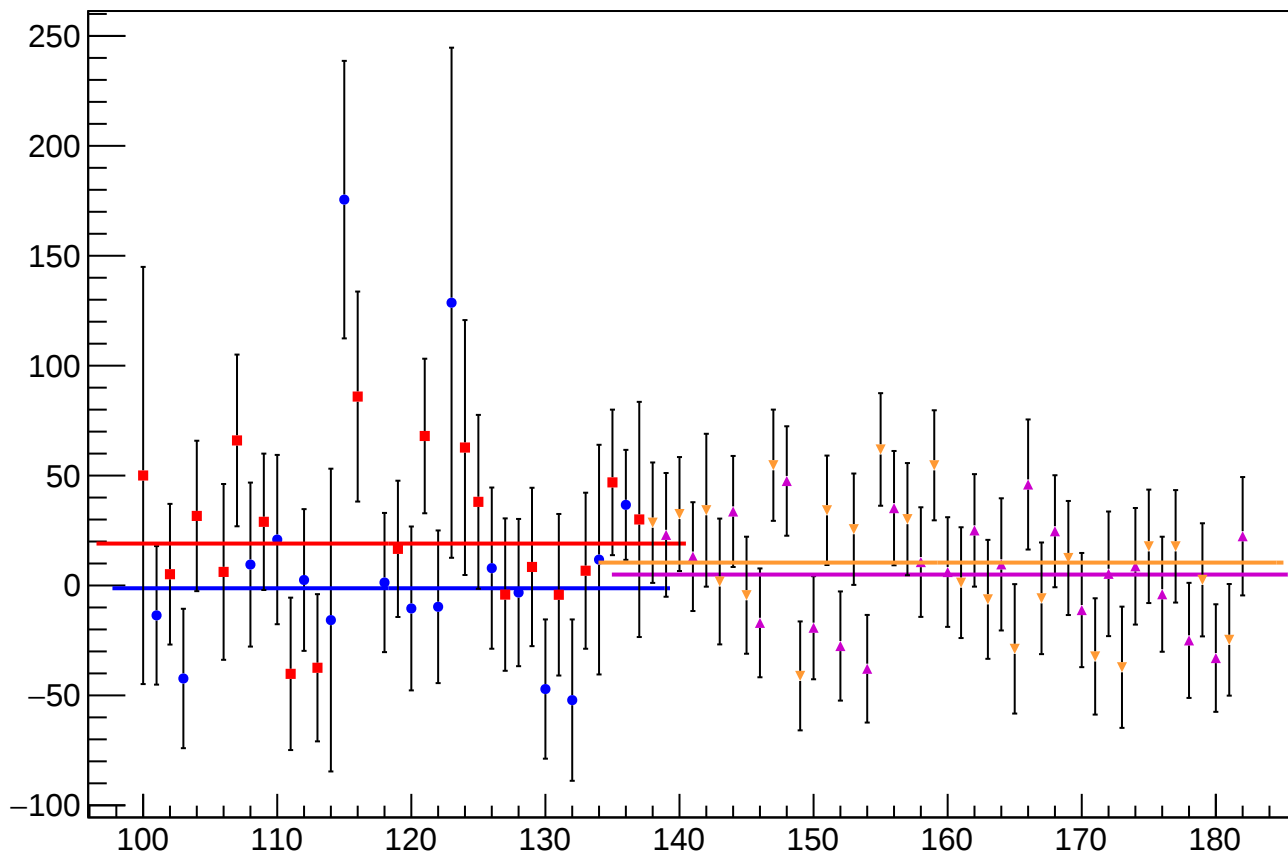
Right: 183.734+/-0.038 χ^2/NDF : 2585471.0/35

In: 184.195+/-0.028 χ^2/NDF :2605135.3/38

Out: 193.253+/-0.029 χ^2/NDF :3318751.7/41

All: 188.568+/-0.020 χ^2/NDF : 5974236.6/80

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.260 ± 8.846 χ^2/NDF : 18.0/16

Left Out: 10.413 ± 5.483 χ^2/NDF : 28.9/22

Right Out: 19.071 ± 8.572 χ^2/NDF : 14.4/18

Left In: 4.971 ± 5.510 χ^2/NDF : 20.6/21

Left: 7.705 ± 3.886 χ^2/NDF : 50.0/44

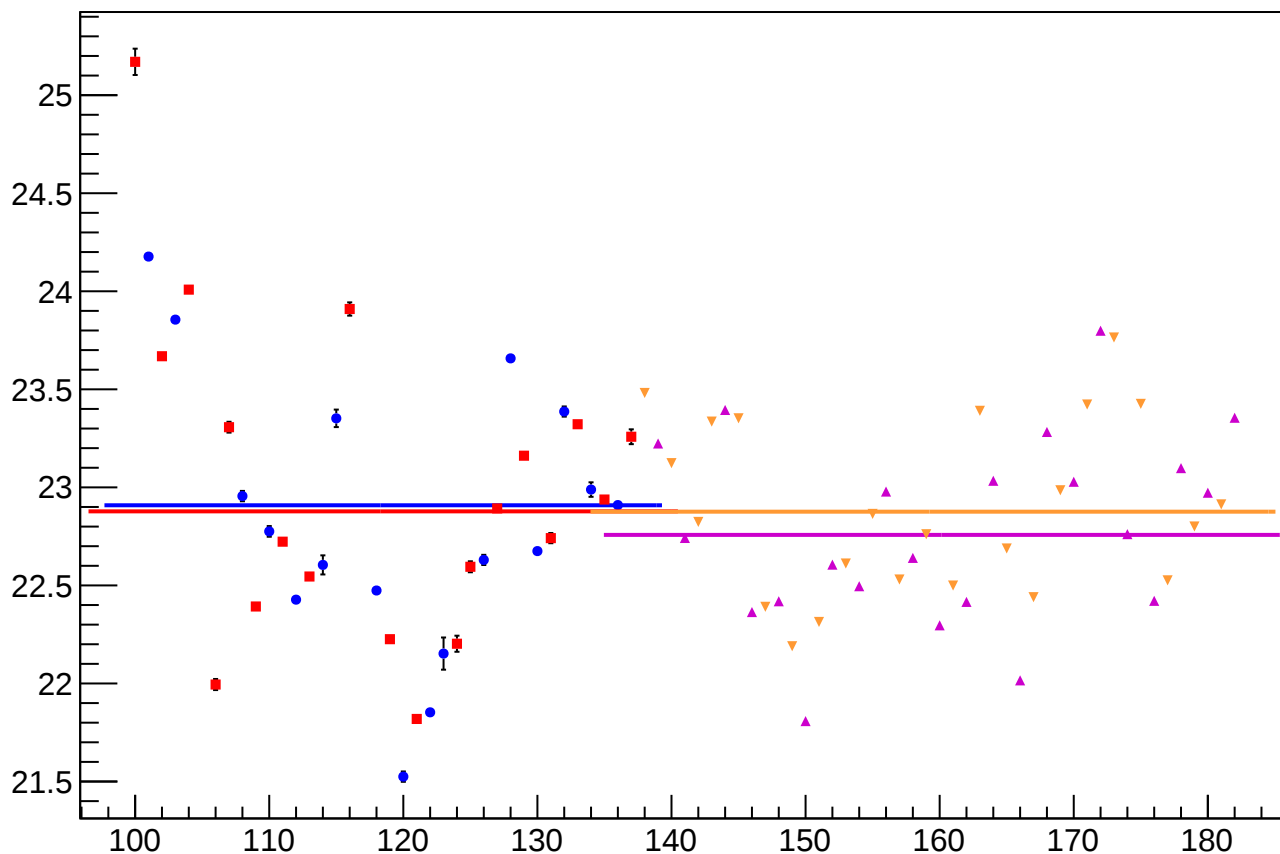
Right: 9.225 ± 6.156 χ^2/NDF : 35.1/35

In: 3.229 ± 4.677 χ^2/NDF : 38.9/38

Out: 12.927 ± 4.619 χ^2/NDF : 44.0/41

All: 8.138 ± 3.286 χ^2/NDF : 85.1/80

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: 22.876 $\pm$ 0.004 χ^2 /NDF:12345.9/22

Right Out: 22.878 $\pm$ 0.006 χ^2 /NDF: 11094.4/18

Left In: 22.758 $\pm$ 0.004 χ^2 /NDF:14505.5/21

Left: 22.817 $\pm$ 0.003 χ^2 /NDF: 27315.4/44

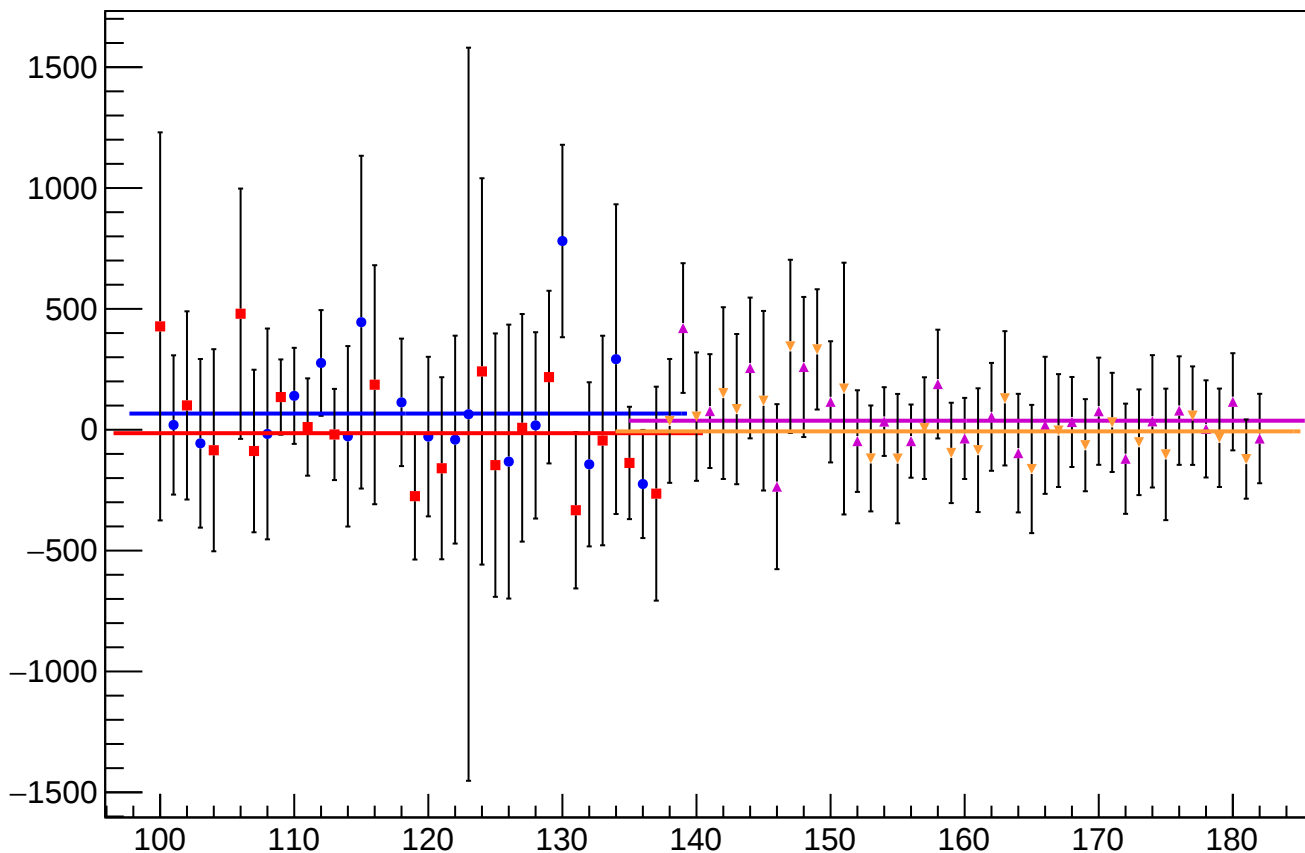
Right: 22.893 $\pm$ 0.004 χ^2 /NDF: 23377.6/35

In: 22.800 $\pm$ 0.003 χ^2 /NDF:27196.1/38

Out: 22.877 $\pm$ 0.003 χ^2 /NDF:23440.3/41

All: 22.839 $\pm$ 0.002 χ^2 /NDF: 50908.5/80

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: -6.659 $\pm$ 50.307 χ^2 /NDF:5.6/22

Right Out: -14.253 $\pm$ 70.367 χ^2 /NDF: 5.8/18

Left In: 37.392 $\pm$ 45.616 χ^2 /NDF:6.3/21

Left: 17.516 $\pm$ 33.792 χ^2 /NDF: 12.3/44

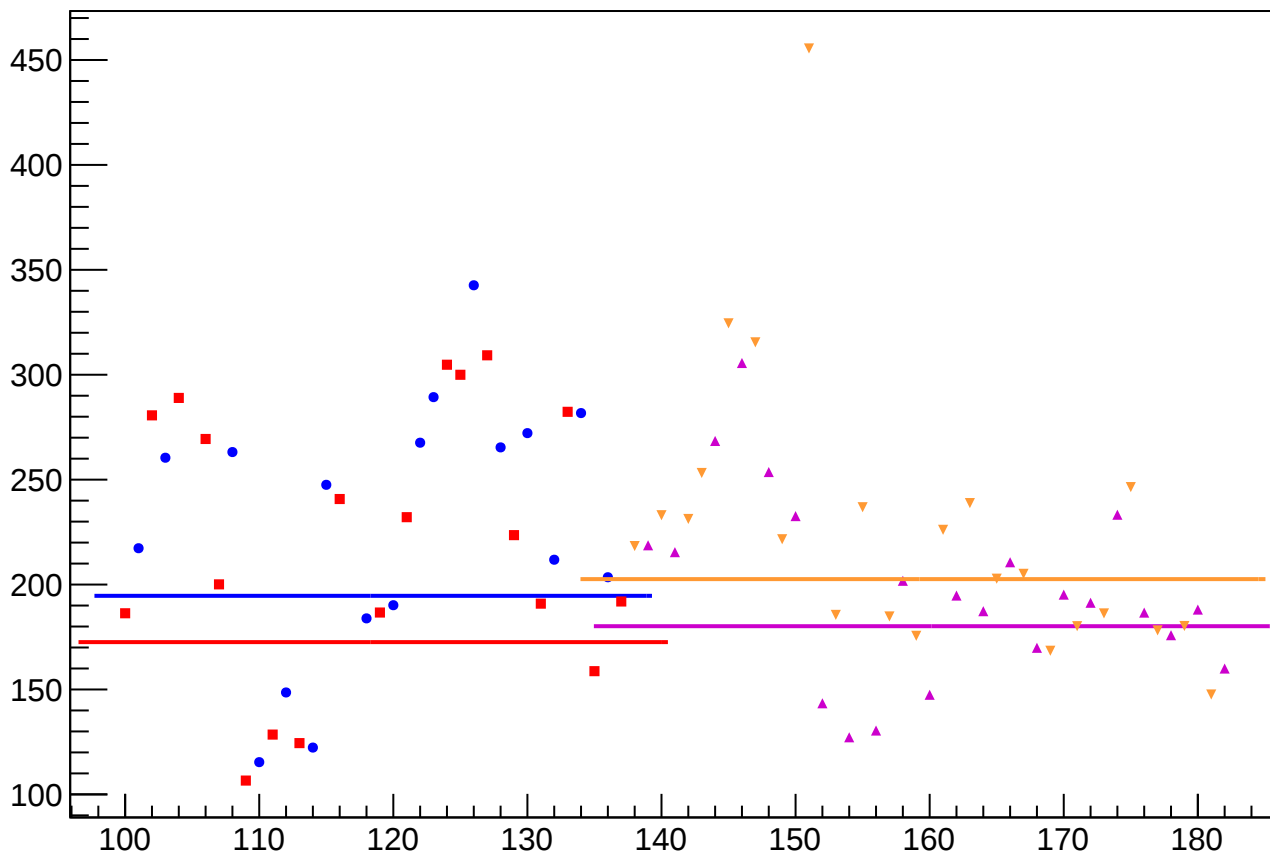
Right: 21.361 $\pm$ 52.728 χ^2 /NDF: 13.7/35

In: 44.699 $\pm$ 39.581 χ^2 /NDF:13.7/38

Out: -9.228 $\pm$ 40.924 χ^2 /NDF:11.4/41

All: 18.635 $\pm$ 28.451 χ^2 /NDF: 26.0/80

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: 202.594+/-0.036 χ^2/NDF : 1570500.7/22

Right Out: 172.571+/-0.050 χ^2/NDF : 1591230.2/18

Left In: 180.157+/-0.032 χ^2/NDF : 1563051.1/21

Left: 190.280+/-0.024 χ^2/NDF : 3351877.3/44

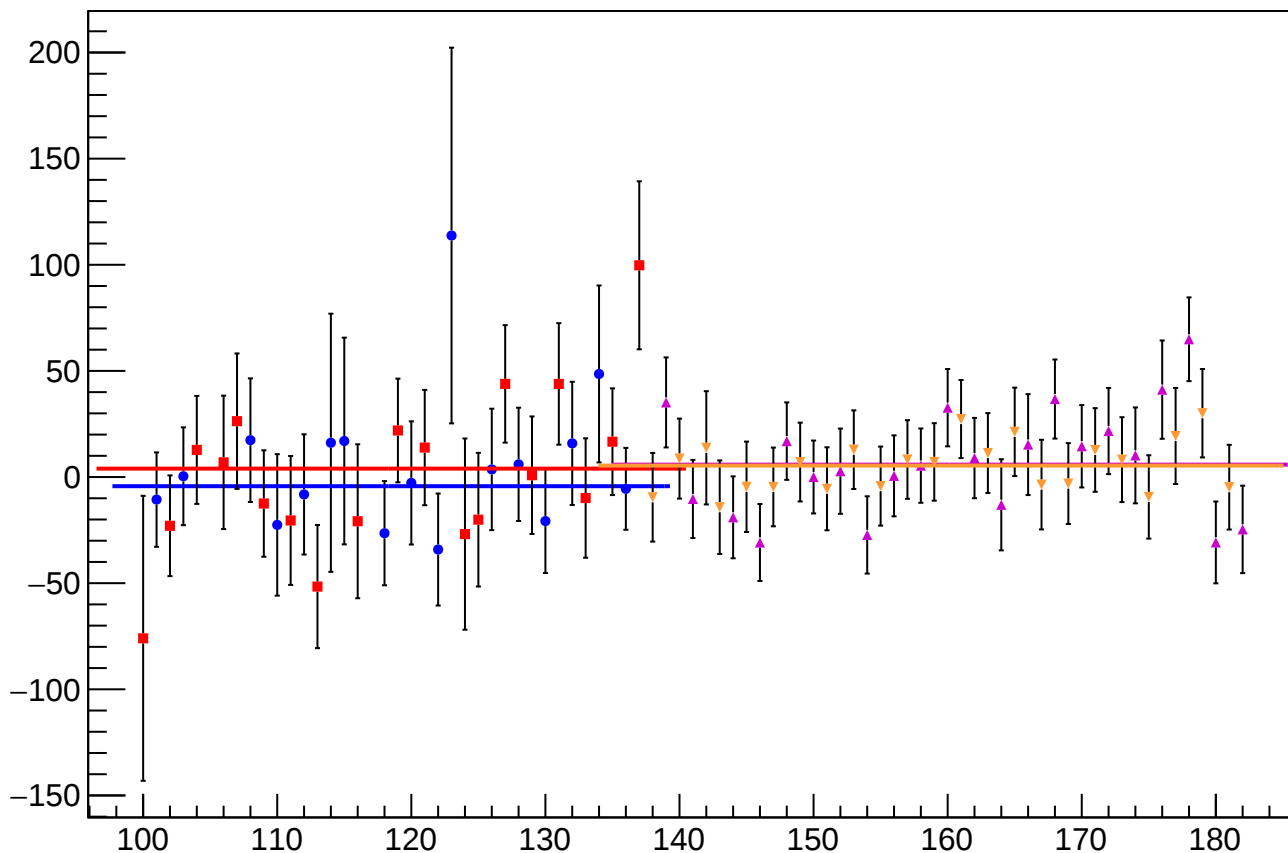
Right: 182.245+/-0.037 χ^2/NDF : 2698427.0/35

In: 183.734+/-0.028 χ^2/NDF : 2633807.3/38

Out: 192.439+/-0.029 χ^2/NDF : 3402664.2/41

All: 187.941+/-0.020 χ^2/NDF : 6083225.8/80

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: 5.395 ± 4.136 $\chi^2/\text{NDF}: 8.0/22$

Right Out: 3.970 ± 6.740 $\chi^2/\text{NDF}: 20.7/18$

Left In: 5.849 ± 4.154 $\chi^2/\text{NDF}: 36.1/21$

Left: 5.621 ± 2.931 $\chi^2/\text{NDF}: 44.1/44$

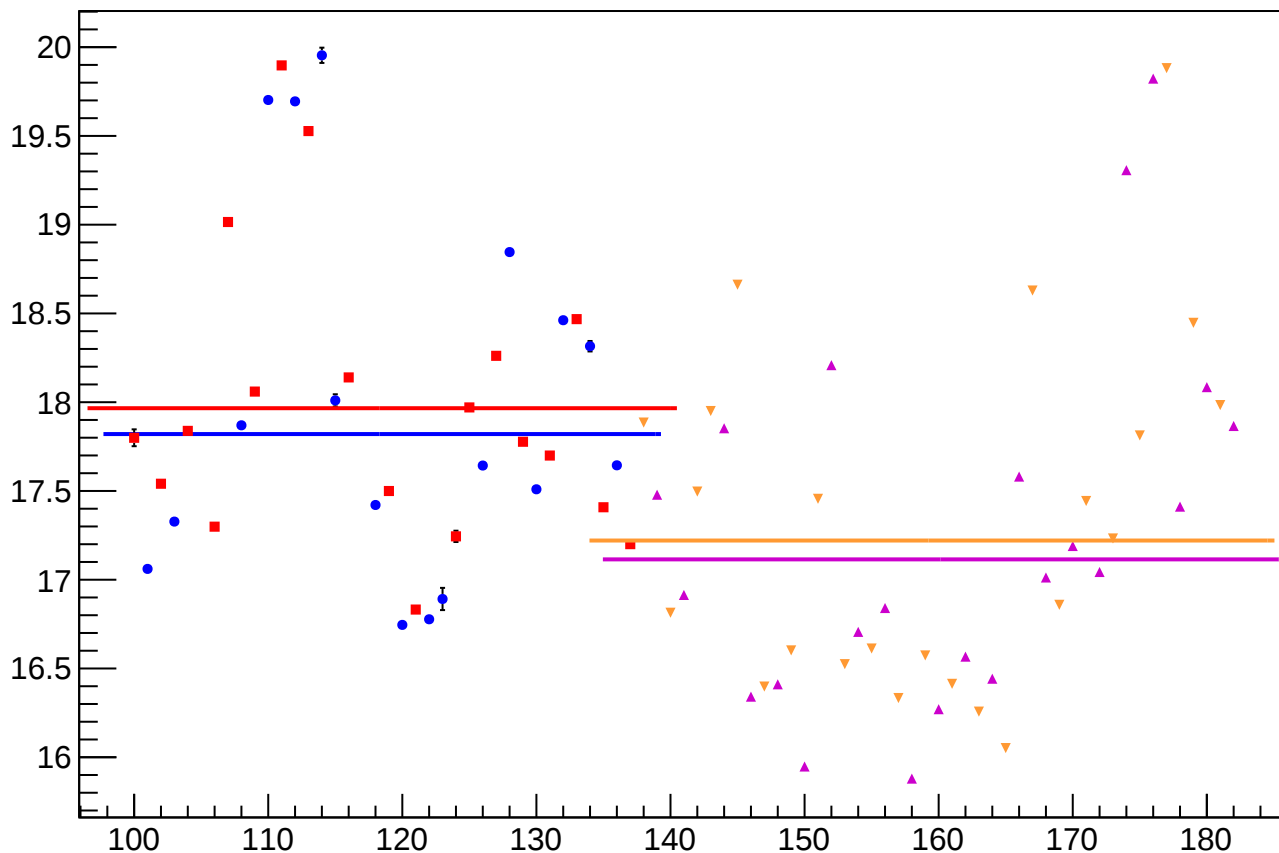
Right: -0.083 ± 4.817 $\chi^2/\text{NDF}: 29.3/35$

In: 3.138 ± 3.557 $\chi^2/\text{NDF}: 45.7/38$

Out: 5.005 ± 3.526 $\chi^2/\text{NDF}: 28.7/41$

All: 4.080 ± 2.504 $\chi^2/\text{NDF}: 74.5/80$

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: 17.221 $\pm$ 0.003 χ^2 /NDF: 97675.9/22

Right Out: 17.966 $\pm$ 0.005 χ^2 /NDF: 25320.4/18

Left In: 17.115 $\pm$ 0.003 χ^2 /NDF: 100122.8/21

Left: 17.168 $\pm$ 0.002 χ^2 /NDF: 198455.2/44

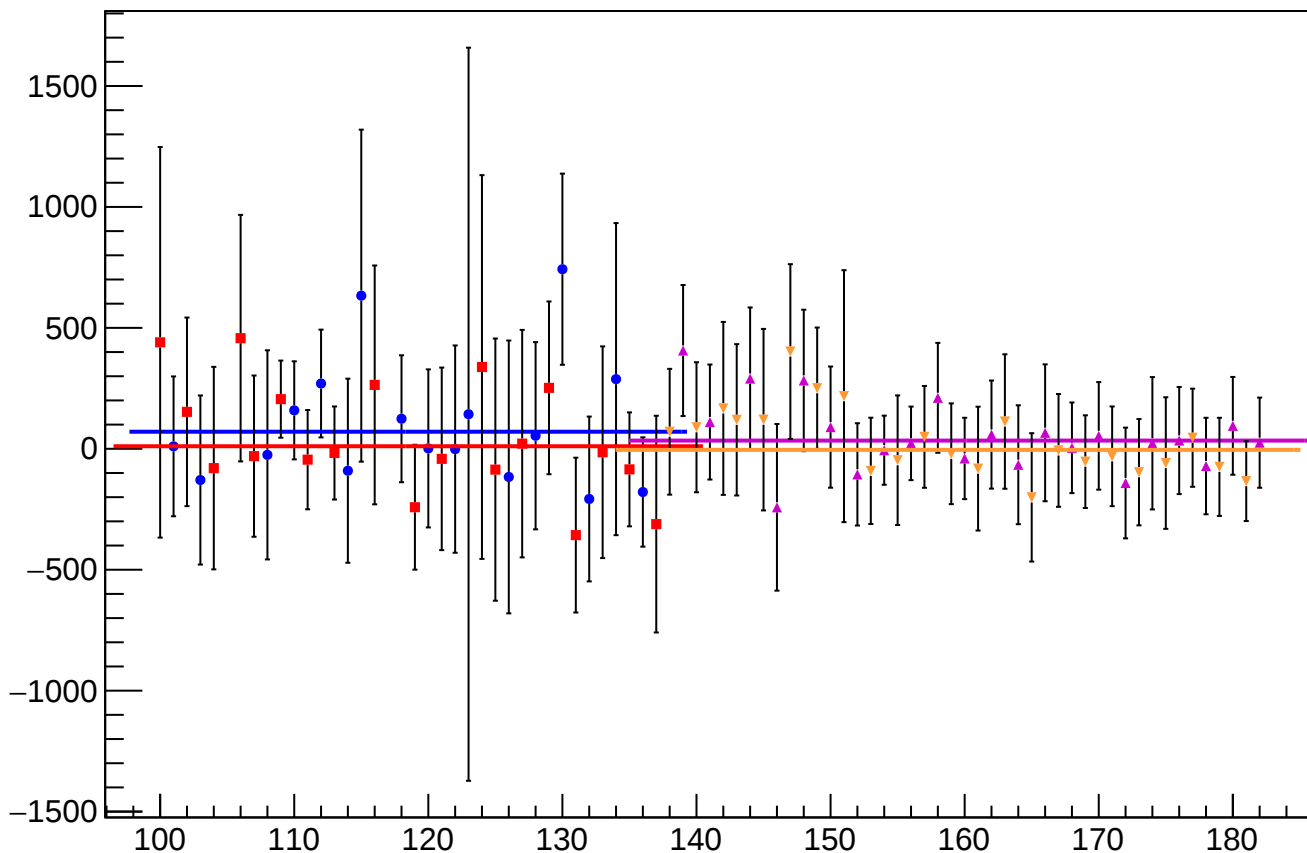
Right: 17.895 $\pm$ 0.003 χ^2 /NDF: 58060.9/35

In: 17.303 $\pm$ 0.003 χ^2 /NDF: 147816.0/38

Out: 17.425 $\pm$ 0.002 χ^2 /NDF: 140762.7/41

All: 17.364 $\pm$ 0.002 χ^2 /NDF: 289762.1/80

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.603+/-80.168 χ^2/NDF : 7.4/16

Left Out: -4.399+/-50.484 χ^2/NDF : 5.3/22

Right Out: 10.558+/-71.025 χ^2/NDF : 6.7/18

Left In: 33.971+/-45.774 χ^2/NDF : 6.7/21

Left: 16.659+/-33.910 χ^2/NDF : 12.3/44

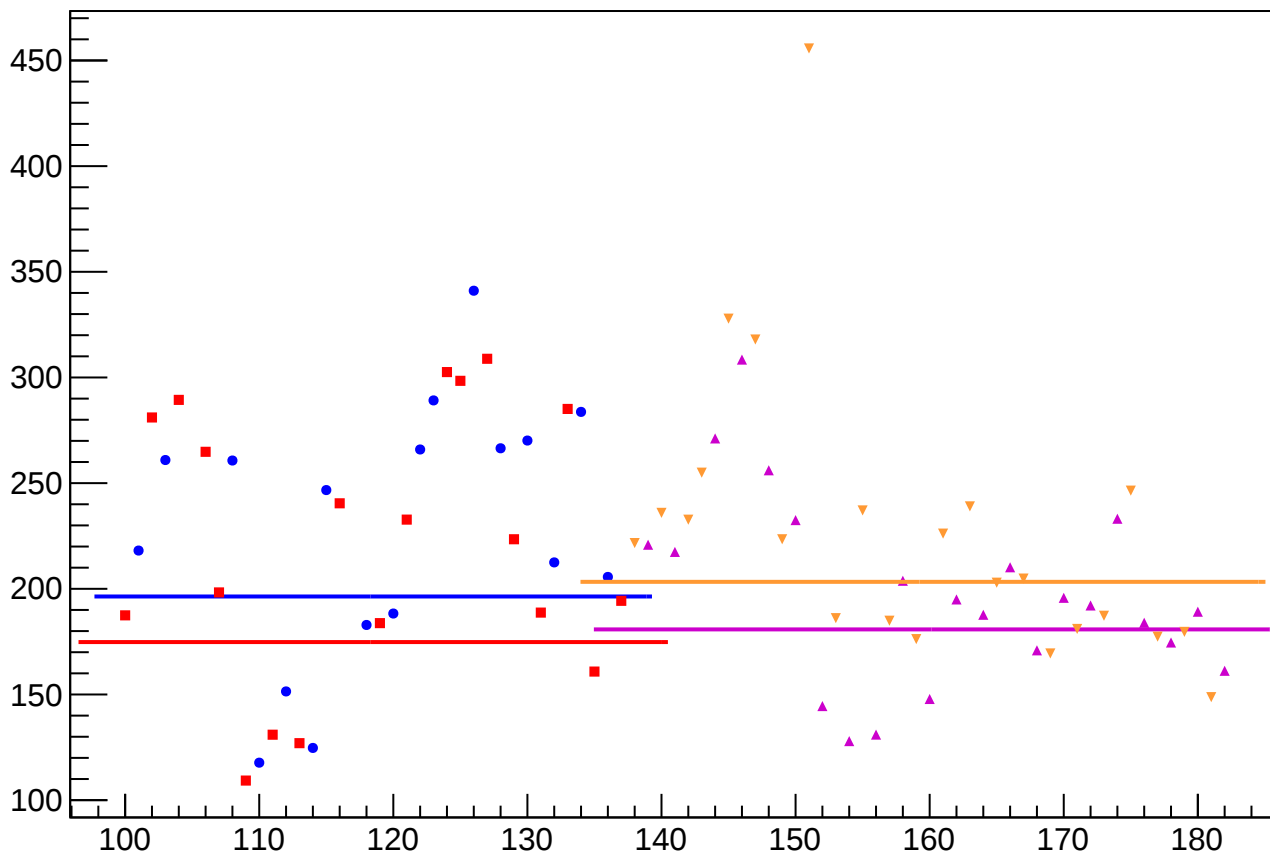
Right: 36.962+/-53.162 χ^2/NDF : 14.4/35

In: 42.978+/-39.751 χ^2/NDF : 14.2/38

Out: 0.621+/-41.149 χ^2/NDF : 12.1/41

All: 22.531+/-28.589 χ^2/NDF : 26.9/80

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.369+/-0.057 χ^2/NDF : 965962.8/16

Left Out: 203.301+/-0.036 χ^2/NDF :1579368.2/22

Right Out: 174.800+/-0.050 χ^2/NDF : 1506075.3/18

Left In: 180.794+/-0.032 χ^2/NDF :1568508.1/21

Left: 190.948+/-0.024 χ^2/NDF : 3366036.4/44

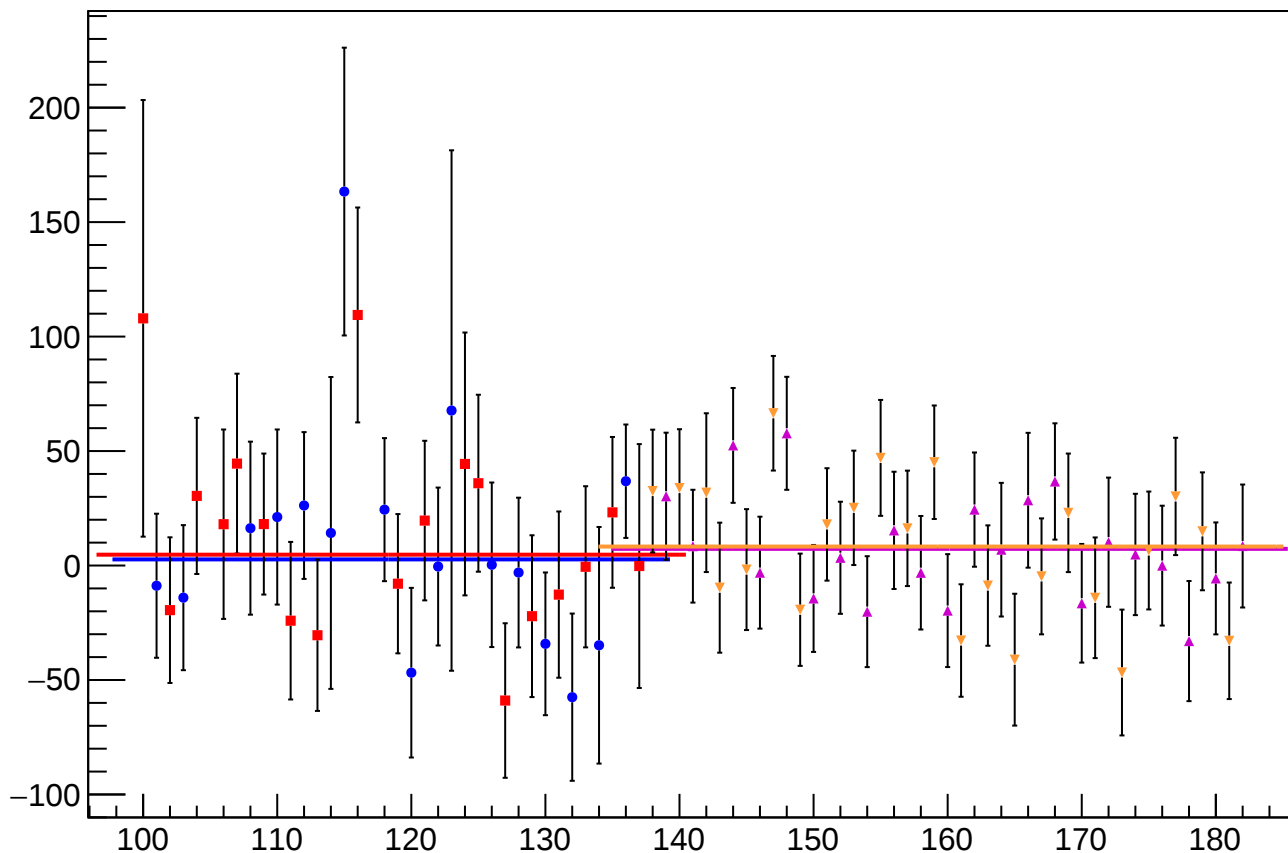
Right: 184.285+/-0.038 χ^2/NDF : 2553145.1/35

In: 184.623+/-0.028 χ^2/NDF :2591402.5/38

Out: 193.734+/-0.029 χ^2/NDF :3299388.0/41

All: 189.021+/-0.020 χ^2/NDF : 5941514.9/80

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.676 ± 8.772 χ^2/NDF : 17.1/16

Left Out: 8.282 ± 5.431 χ^2/NDF : 29.6/22

Right Out: 4.736 ± 8.496 χ^2/NDF : 16.6/18

Left In: 7.280 ± 5.465 χ^2/NDF : 17.9/21

Left: 7.784 ± 3.852 χ^2/NDF : 47.5/44

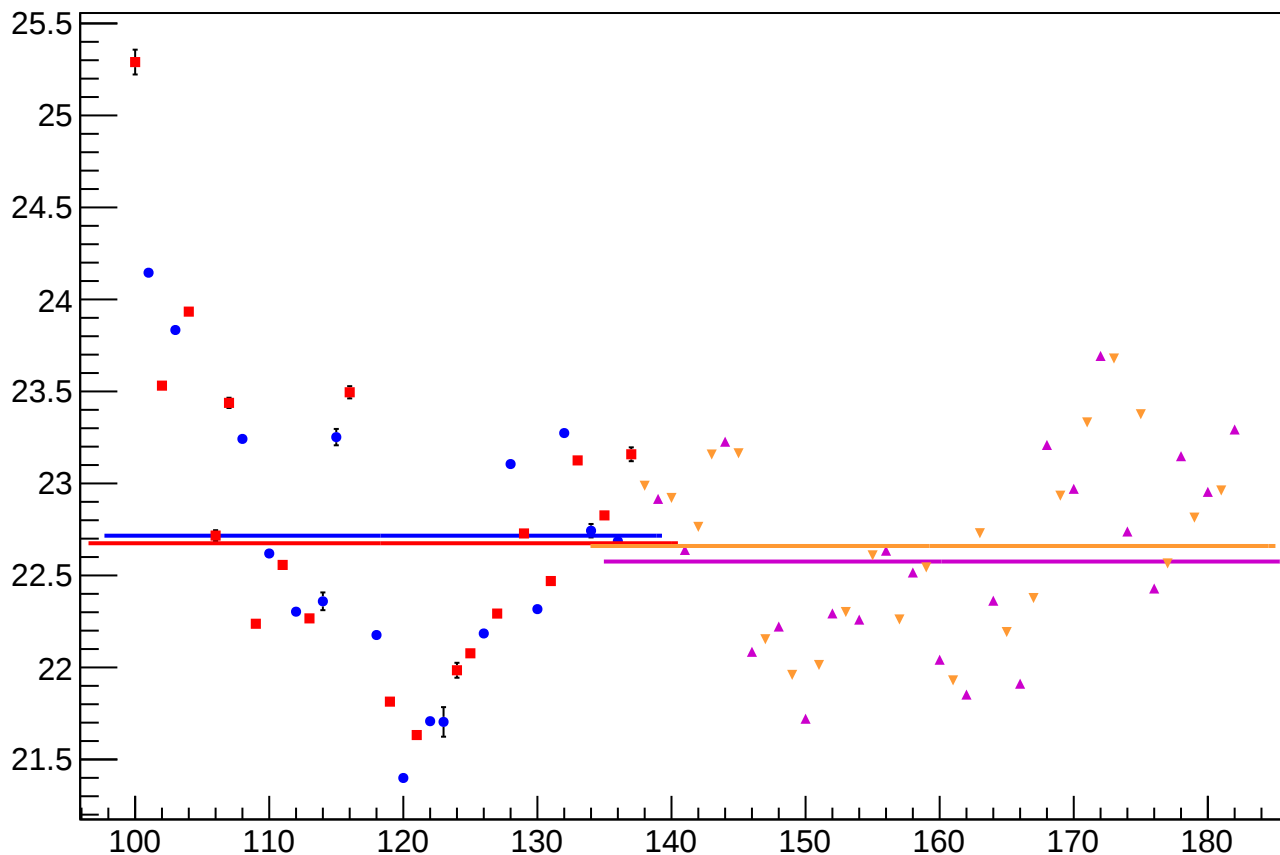
Right: 3.739 ± 6.103 χ^2/NDF : 33.7/35

In: 5.993 ± 4.639 χ^2/NDF : 35.1/38

Out: 7.253 ± 4.576 χ^2/NDF : 46.4/41

All: 6.632 ± 3.258 χ^2/NDF : 81.6/80

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: 22.660 $\pm$ 0.004 χ^2 /NDF:15429.7/22

Right Out: 22.675 $\pm$ 0.006 χ^2 /NDF: 12796.3/18

Left In: 22.576 $\pm$ 0.004 χ^2 /NDF:17765.0/21

Left: 22.618 $\pm$ 0.003 χ^2 /NDF: 33435.4/44

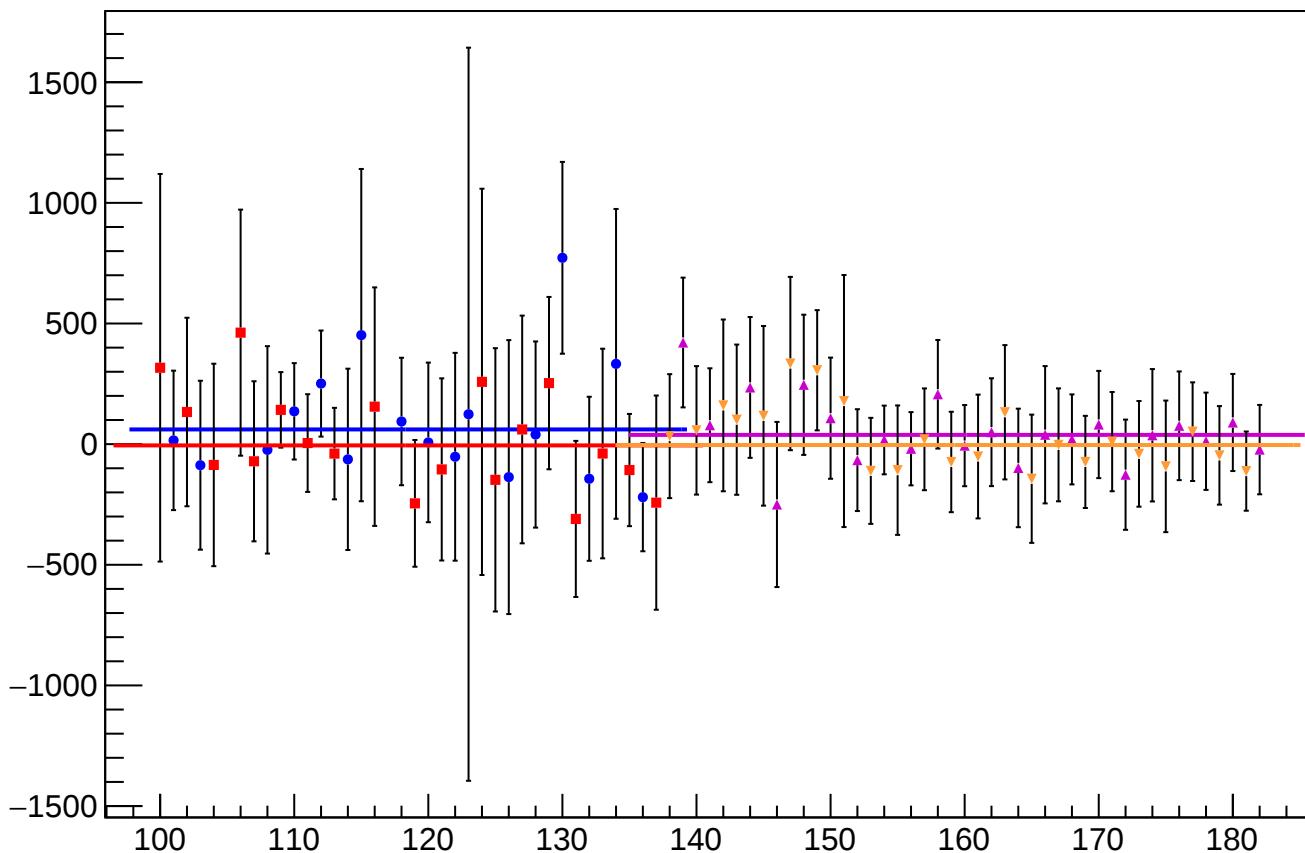
Right: 22.695 $\pm$ 0.004 χ^2 /NDF: 26877.1/35

In: 22.615 $\pm$ 0.003 χ^2 /NDF:32192.8/38

Out: 22.664 $\pm$ 0.003 χ^2 /NDF:28230.3/41

All: 22.640 $\pm$ 0.002 χ^2 /NDF: 60538.8/80

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: -3.659 $\pm$ 50.424 χ^2 /NDF: 4.9/22

Right Out: -5.234 $\pm$ 70.529 χ^2 /NDF: 5.2/18

Left In: 38.321 $\pm$ 45.710 χ^2 /NDF: 5.9/21

Left: 19.384 $\pm$ 33.866 χ^2 /NDF: 11.3/44

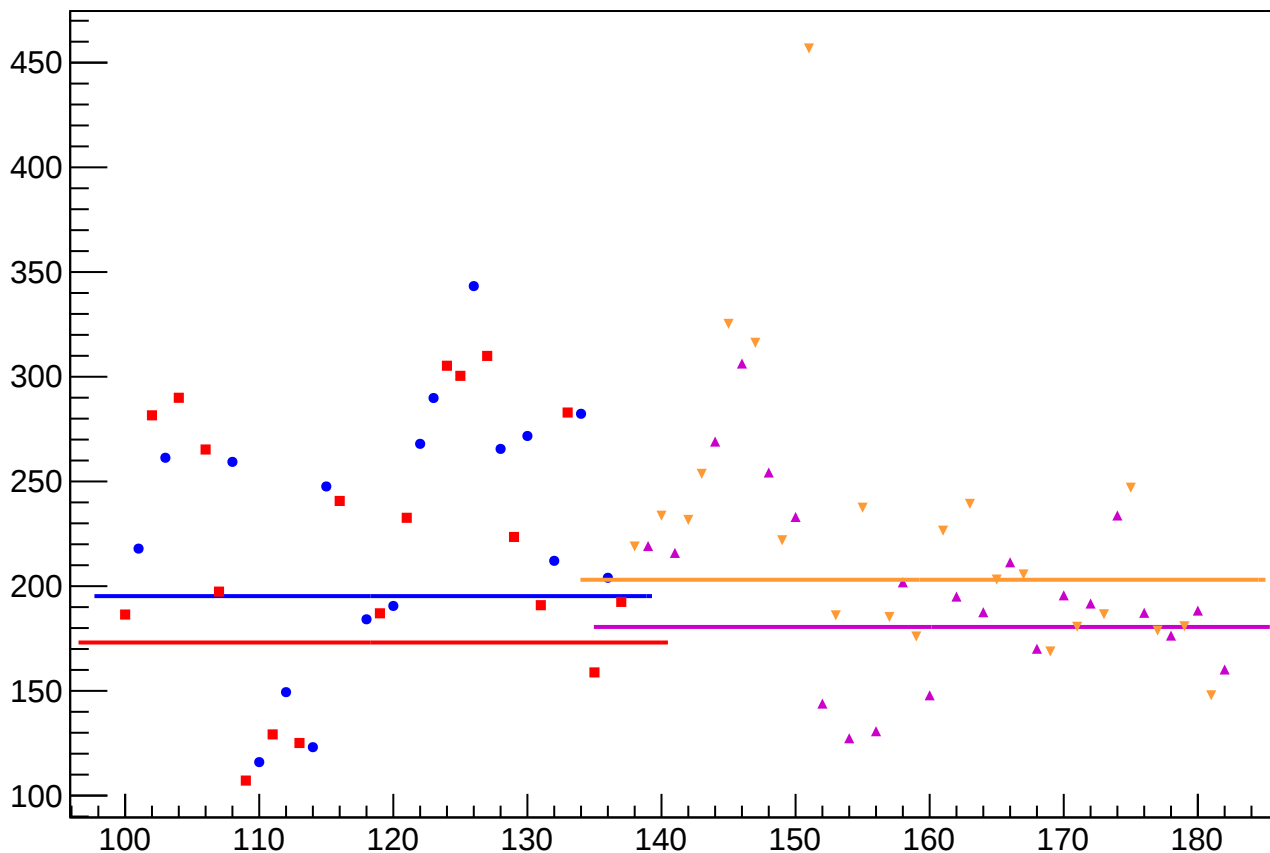
Right: 23.793 $\pm$ 52.855 χ^2 /NDF: 12.7/35

In: 43.915 $\pm$ 39.667 χ^2 /NDF: 13.1/38

Out: -4.192 $\pm$ 41.019 χ^2 /NDF: 10.2/41

All: 20.667 $\pm$ 28.515 χ^2 /NDF: 24.0/80

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.248+/-0.056 χ^2/NDF : 1005332.5/16

Left Out: 203.060+/-0.036 χ^2/NDF : 1570514.5/22

Right Out: 173.101+/-0.050 χ^2/NDF : 1572691.1/18

Left In: 180.527+/-0.032 χ^2/NDF : 1563095.3/21

Left: 190.692+/-0.024 χ^2/NDF : 3352834.9/44

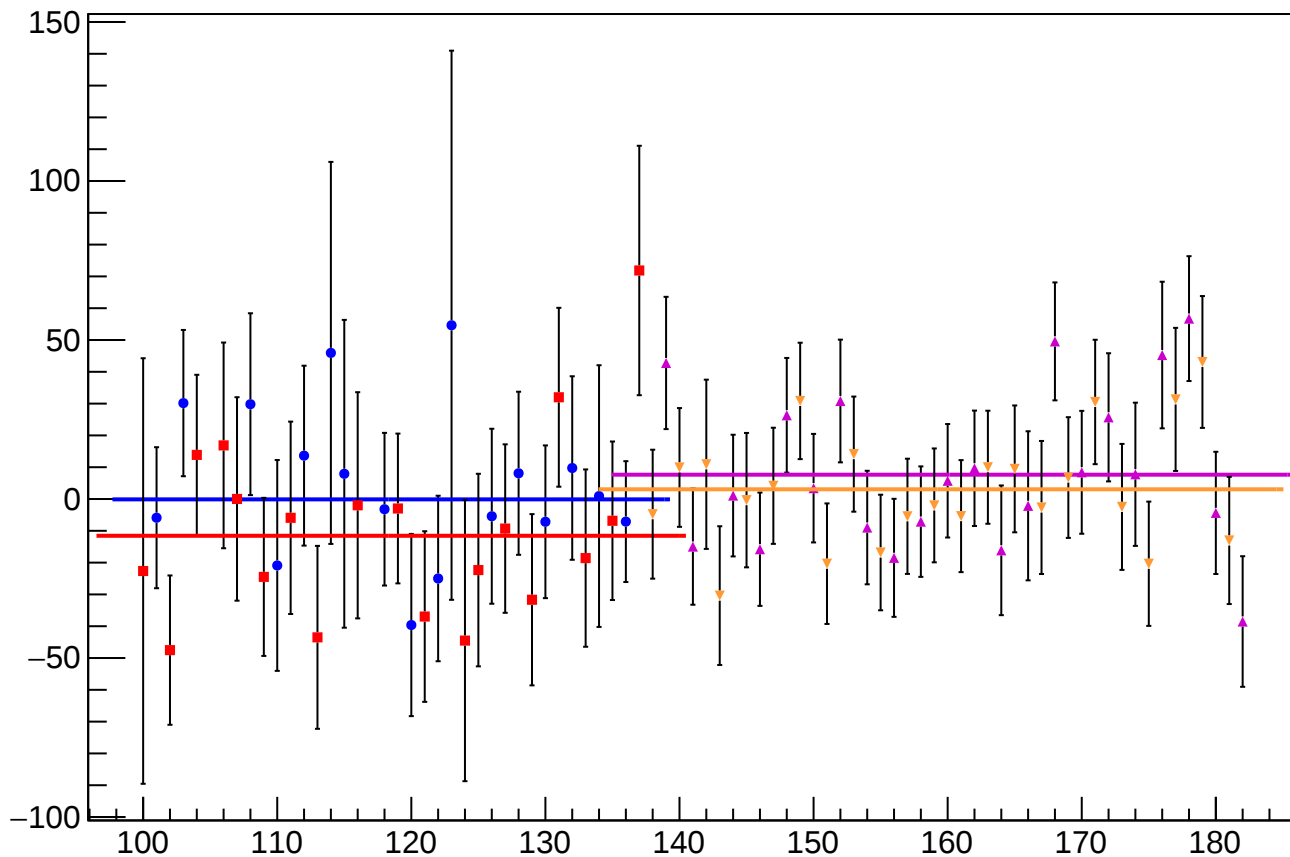
Right: 182.810+/-0.037 χ^2/NDF : 2664478.8/35

In: 184.162+/-0.028 χ^2/NDF : 2619646.0/38

Out: 192.927+/-0.029 χ^2/NDF : 3382011.2/41

All: 188.398+/-0.020 χ^2/NDF : 6048839.7/80

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: 3.056 ± 4.061 χ^2/NDF : 18.5/22

Right Out: -11.560 ± 6.642 χ^2/NDF : 15.2/18

Left In: 7.647 ± 4.092 χ^2/NDF : 34.2/21

Left: 5.334 ± 2.883 χ^2/NDF : 53.3/44

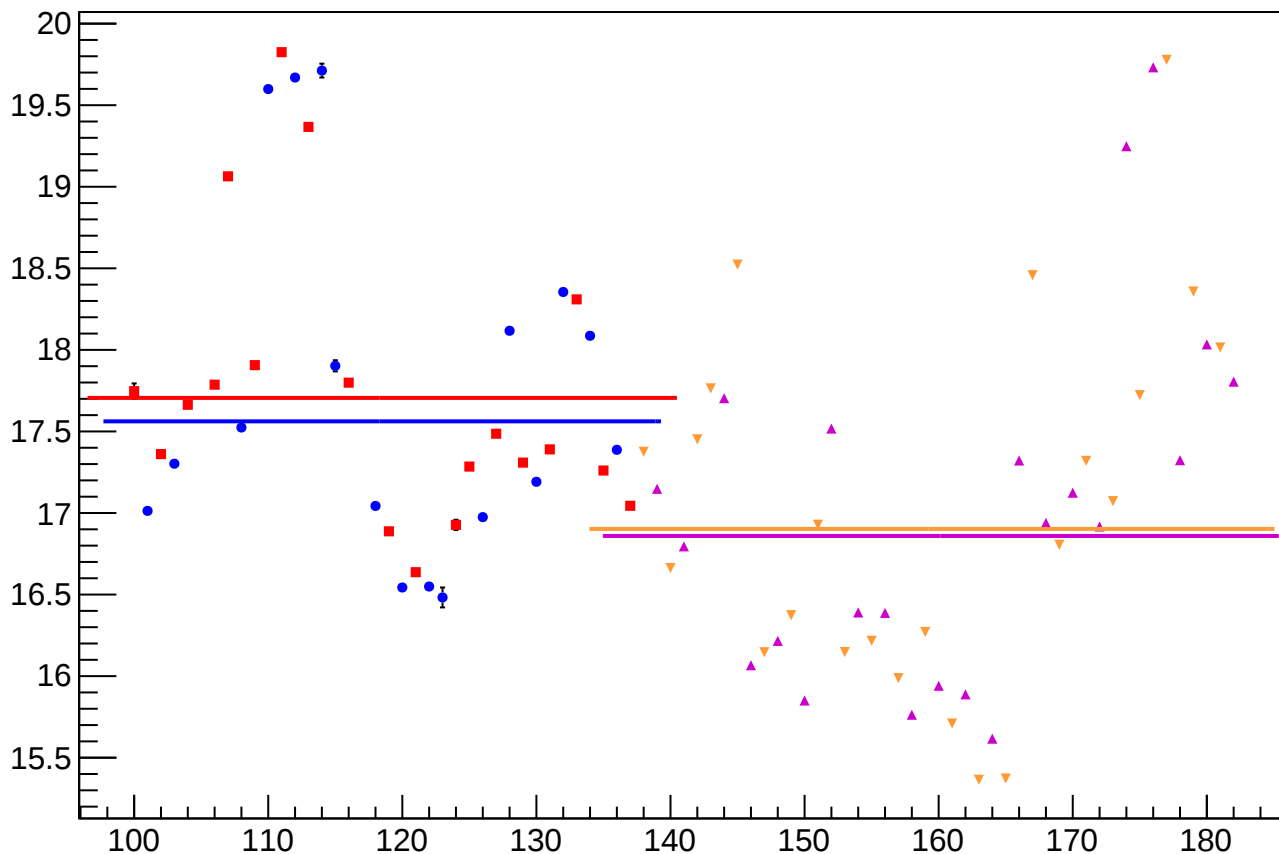
Right: -5.959 ± 4.747 χ^2/NDF : 24.5/35

In: 5.578 ± 3.504 χ^2/NDF : 43.0/38

Out: -0.922 ± 3.465 χ^2/NDF : 37.2/41

All: 2.292 ± 2.464 χ^2/NDF : 82.0/80

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: 16.903 $\pm$ 0.003 χ^2 /NDF:136494.5/22

Right Out: 17.706 $\pm$ 0.005 χ^2 /NDF: 30251.5/18

Left In: 16.859 $\pm$ 0.003 χ^2 /NDF:116856.7/21

Left: 16.881 $\pm$ 0.002 χ^2 /NDF: 253464.5/44

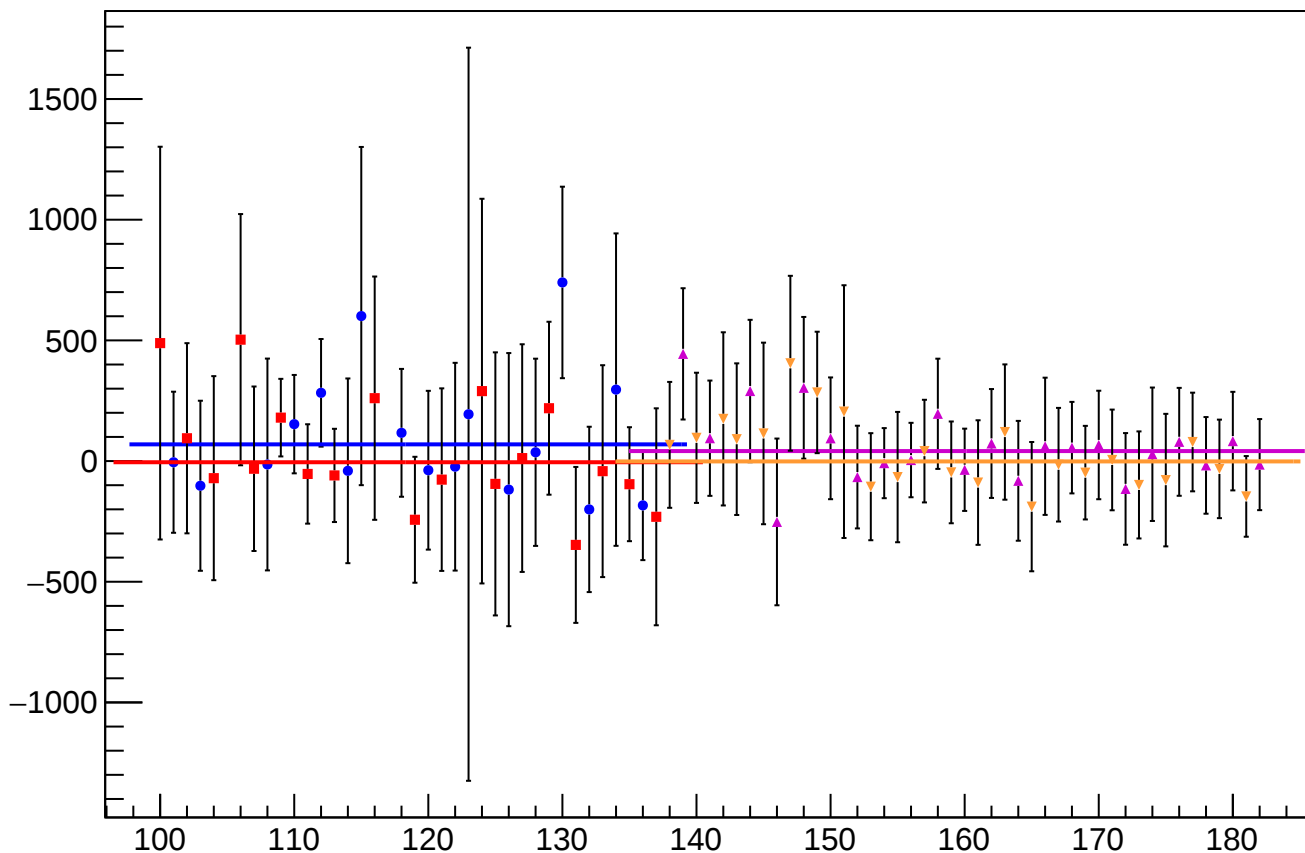
Right: 17.635 $\pm$ 0.003 χ^2 /NDF: 64646.6/35

In: 17.047 $\pm$ 0.002 χ^2 /NDF:166518.8/38

Out: 17.121 $\pm$ 0.002 χ^2 /NDF:188020.5/41

All: 17.084 $\pm$ 0.002 χ^2 /NDF: 354997.3/80

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: -1.433 $\pm$ 50.910 χ^2 /NDF: 5.8/22

Right Out: -4.849 $\pm$ 71.521 χ^2 /NDF: 6.1/18

Left In: 41.391 $\pm$ 46.219 χ^2 /NDF: 6.6/21

Left: 22.043 $\pm$ 34.220 χ^2 /NDF: 12.8/44

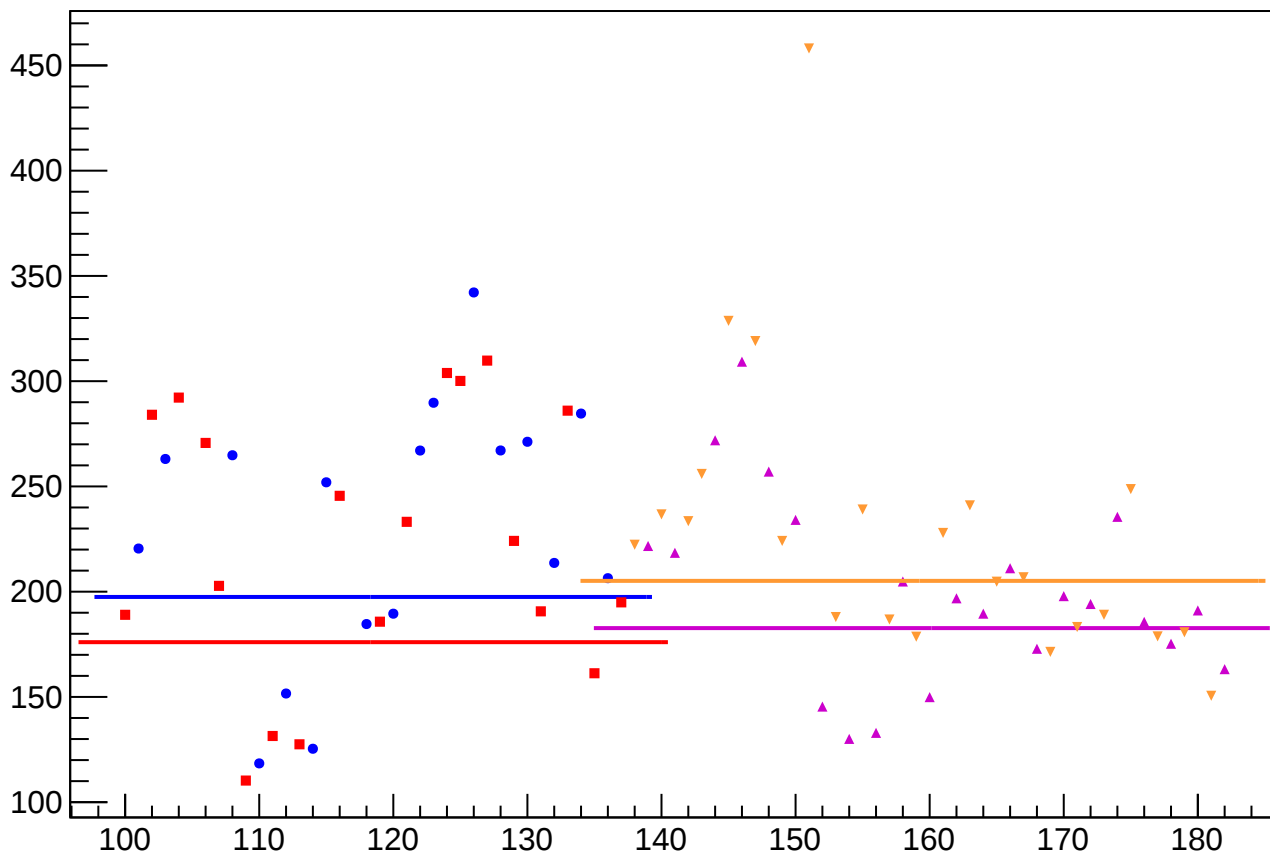
Right: 27.765 $\pm$ 53.506 χ^2 /NDF: 13.8/35

In: 48.273 $\pm$ 40.099 χ^2 /NDF: 13.9/38

Out: -2.582 $\pm$ 41.476 χ^2 /NDF: 11.9/41

All: 23.704 $\pm$ 28.829 χ^2 /NDF: 26.6/80

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: 205.137 $\pm$ 0.036 χ^2 /NDF:1549723.3/22

Right Out: 176.016 $\pm$ 0.051 χ^2 /NDF: 1514778.3/18

Left In: 182.697 $\pm$ 0.033 χ^2 /NDF:1524018.0/21

Left: 192.836 $\pm$ 0.024 χ^2 /NDF: 3286757.2/44

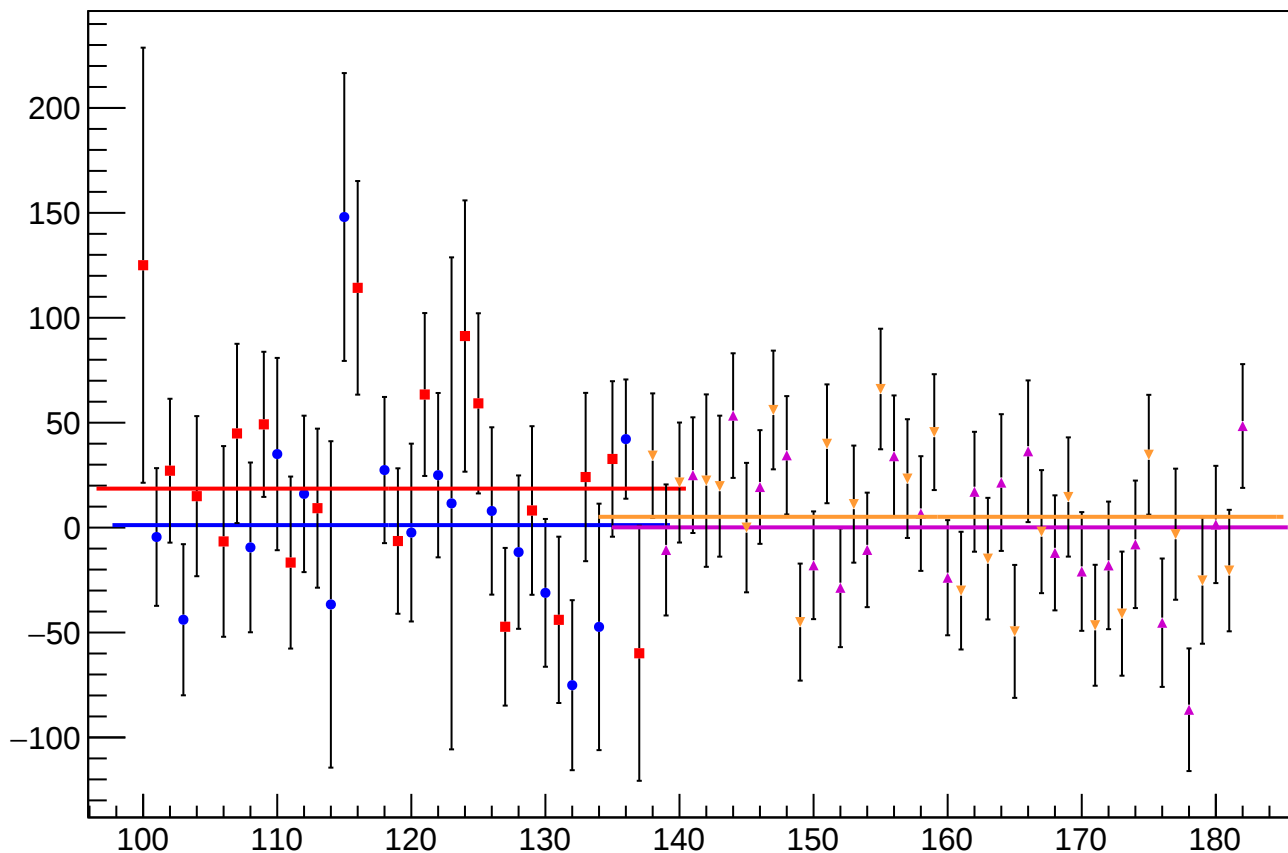
Right: 185.475 $\pm$ 0.038 χ^2 /NDF: 2565103.3/35

In: 186.357 $\pm$ 0.028 χ^2 /NDF:2545618.3/38

Out: 195.344 $\pm$ 0.029 χ^2 /NDF:3284571.8/41

All: 190.699 $\pm$ 0.020 χ^2 /NDF: 5878723.6/80

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.189 $\pm$ 9.848 χ^2 /NDF: 15.4/16

Left Out: 5.148 $\pm$ 6.145 χ^2 /NDF:30.5/22

Right Out: 18.582 $\pm$ 9.518 χ^2 /NDF: 18.4/18

Left In: 0.121 $\pm$ 6.140 χ^2 /NDF:26.9/21

Left: 2.632 $\pm$ 4.344 χ^2 /NDF: 57.7/44

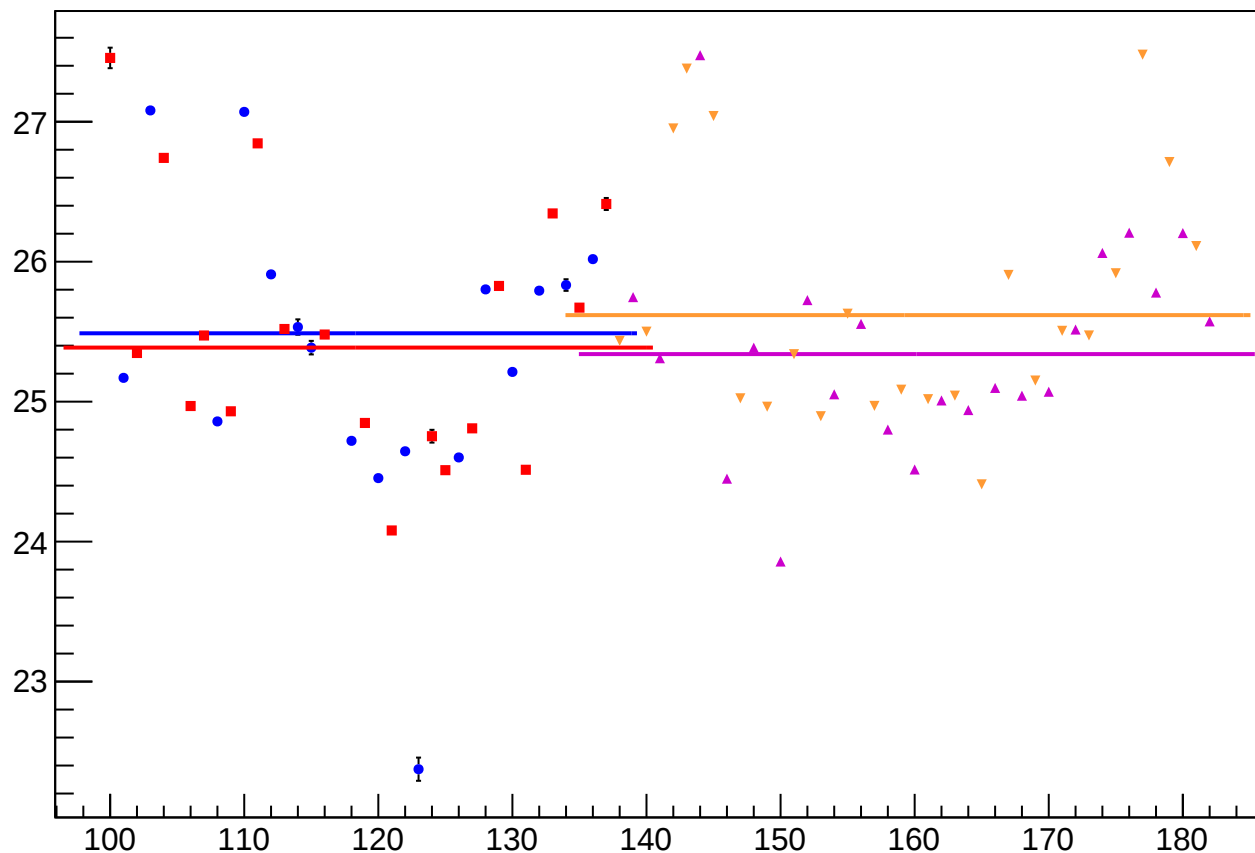
Right: 10.182 $\pm$ 6.844 χ^2 /NDF: 35.5/35

In: 0.420 $\pm$ 5.210 χ^2 /NDF:42.3/38

Out: 9.101 $\pm$ 5.163 χ^2 /NDF:50.3/41

All: 4.800 $\pm$ 3.667 χ^2 /NDF: 94.1/80

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: 25.618 $\pm$ 0.004 χ^2 /NDF:33243.6/22

Right Out: 25.386 $\pm$ 0.007 χ^2 /NDF: 13699.1/18

Left In: 25.340 $\pm$ 0.004 χ^2 /NDF:29194.0/21

Left: 25.479 $\pm$ 0.003 χ^2 /NDF: 64492.8/44

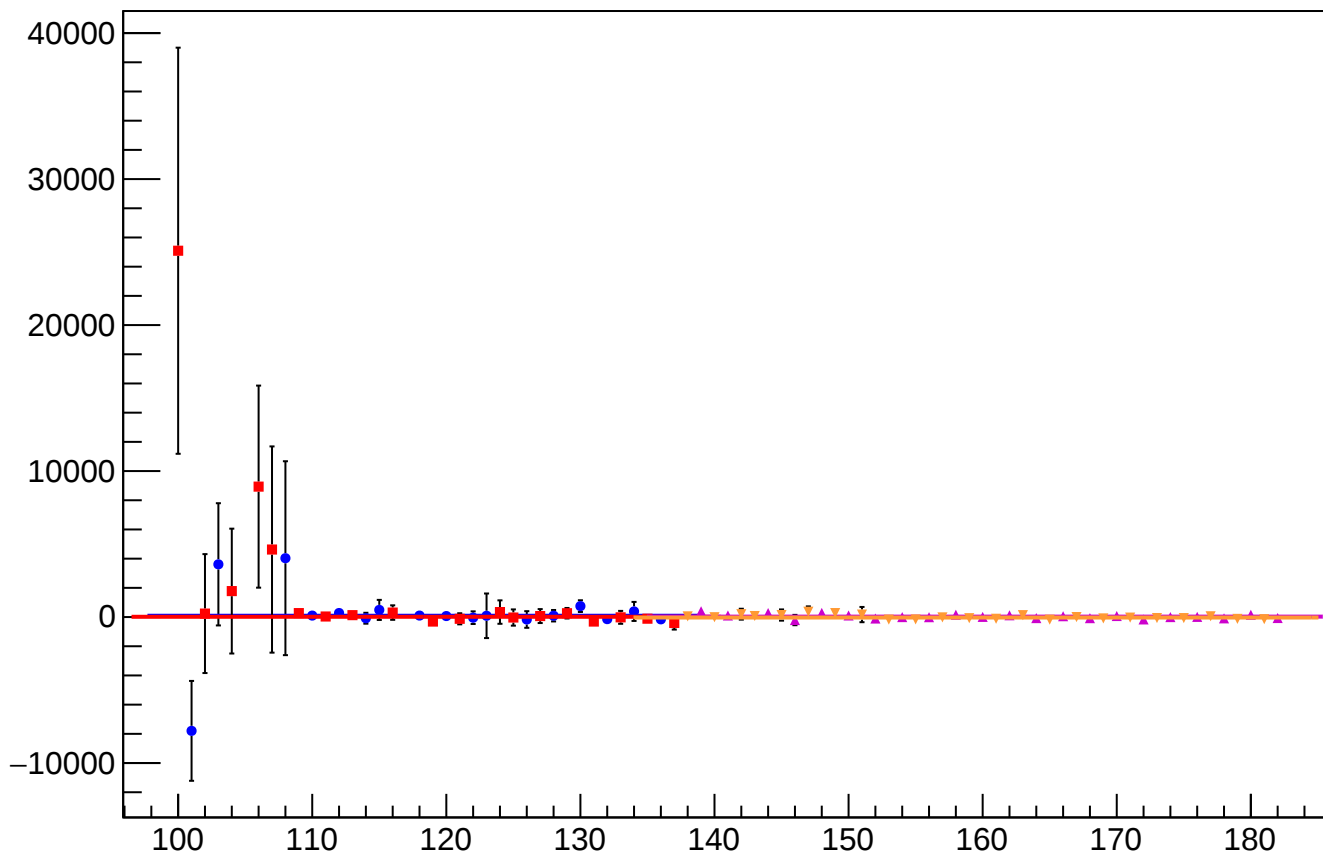
Right: 25.436 $\pm$ 0.005 χ^2 /NDF: 27678.0/35

In: 25.381 $\pm$ 0.004 χ^2 /NDF:43389.7/38

Out: 25.550 $\pm$ 0.004 χ^2 /NDF:47781.2/41

All: 25.466 $\pm$ 0.003 χ^2 /NDF: 92227.8/80

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: -32.122+/-50.594 χ^2/NDF : 5.9/22

Right Out: 18.864+/-80.923 χ^2/NDF : 12.0/18

Left In: 29.492+/-46.546 χ^2/NDF : 7.1/21

Left: 1.248+/-34.255 χ^2/NDF : 13.8/44

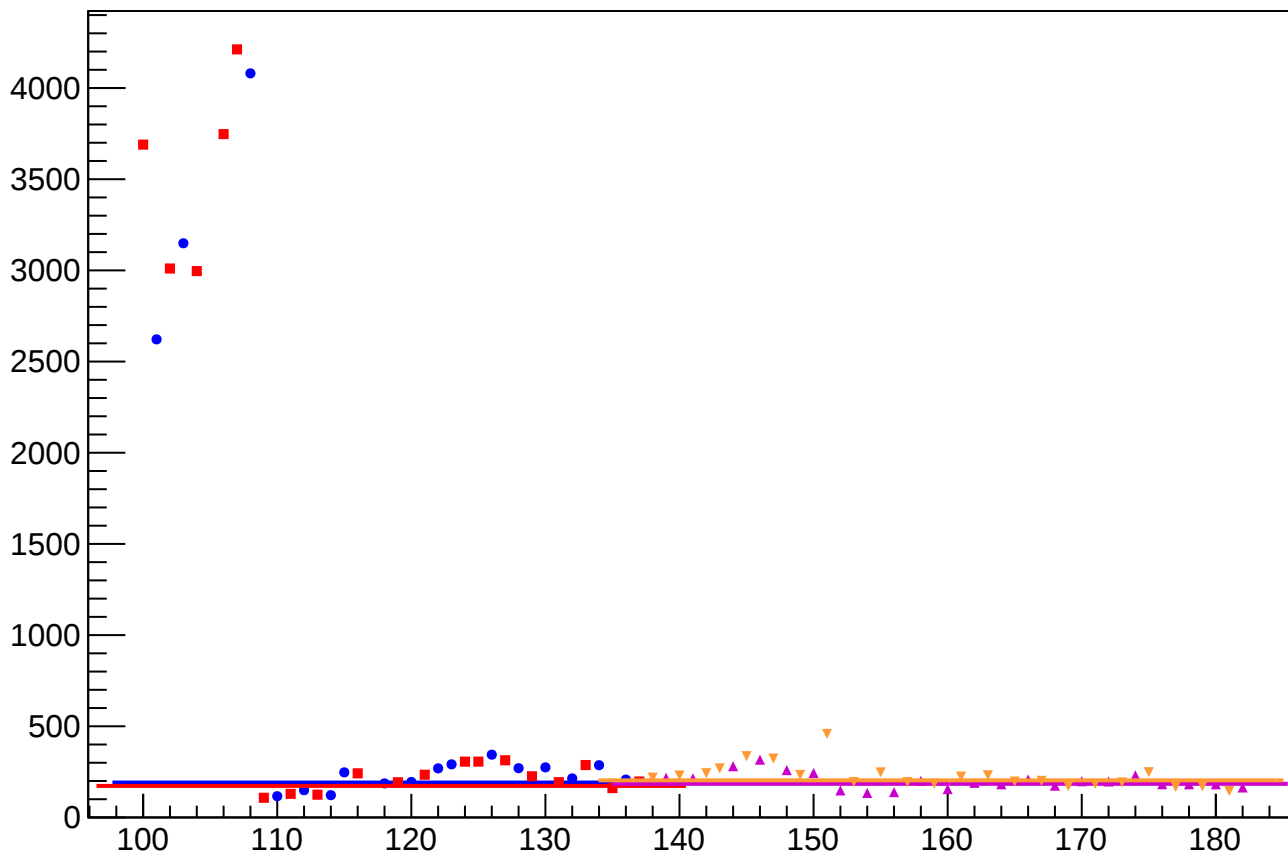
Right: 51.137+/-59.541 χ^2/NDF : 24.8/35

In: 42.570+/-41.137 χ^2/NDF : 19.9/38

Out: -17.793+/-42.899 χ^2/NDF : 18.2/41

All: 13.654+/-29.692 χ^2/NDF : 39.1/80

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: 203.457+/-0.036 χ^2/NDF :1702652.2/22

Right Out: 173.068+/-0.057 χ^2/NDF : 4201509.7/18

Left In: 184.418+/-0.033 χ^2/NDF :1398022.0/21

Left: 193.146+/-0.024 χ^2/NDF : 3254063.0/44

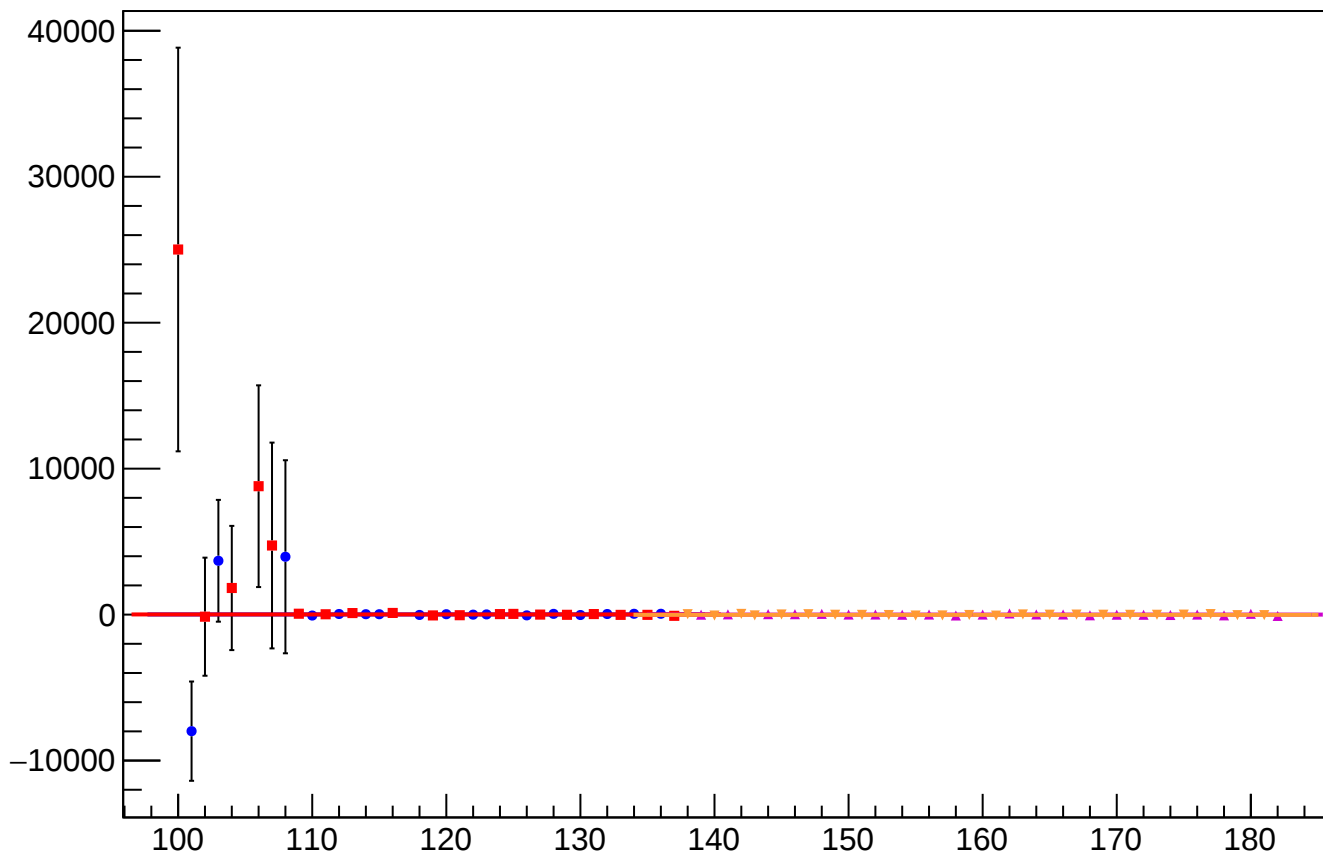
Right: 181.486+/-0.042 χ^2/NDF : 7822251.9/35

In: 185.952+/-0.029 χ^2/NDF :4981493.1/38

Out: 194.917+/-0.030 χ^2/NDF :6106937.9/41

All: 190.246+/-0.021 χ^2/NDF : 11133935.9/80

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.464+/-12.227 χ^2/NDF : 18.3/16

Left Out: -16.013+/-6.892 χ^2/NDF :19.8/22

Right Out: 11.883+/-12.264 χ^2/NDF : 23.9/18

Left In: 1.148+/-6.966 χ^2/NDF :32.0/21

Left: -7.524+/-4.899 χ^2/NDF : 54.9/44

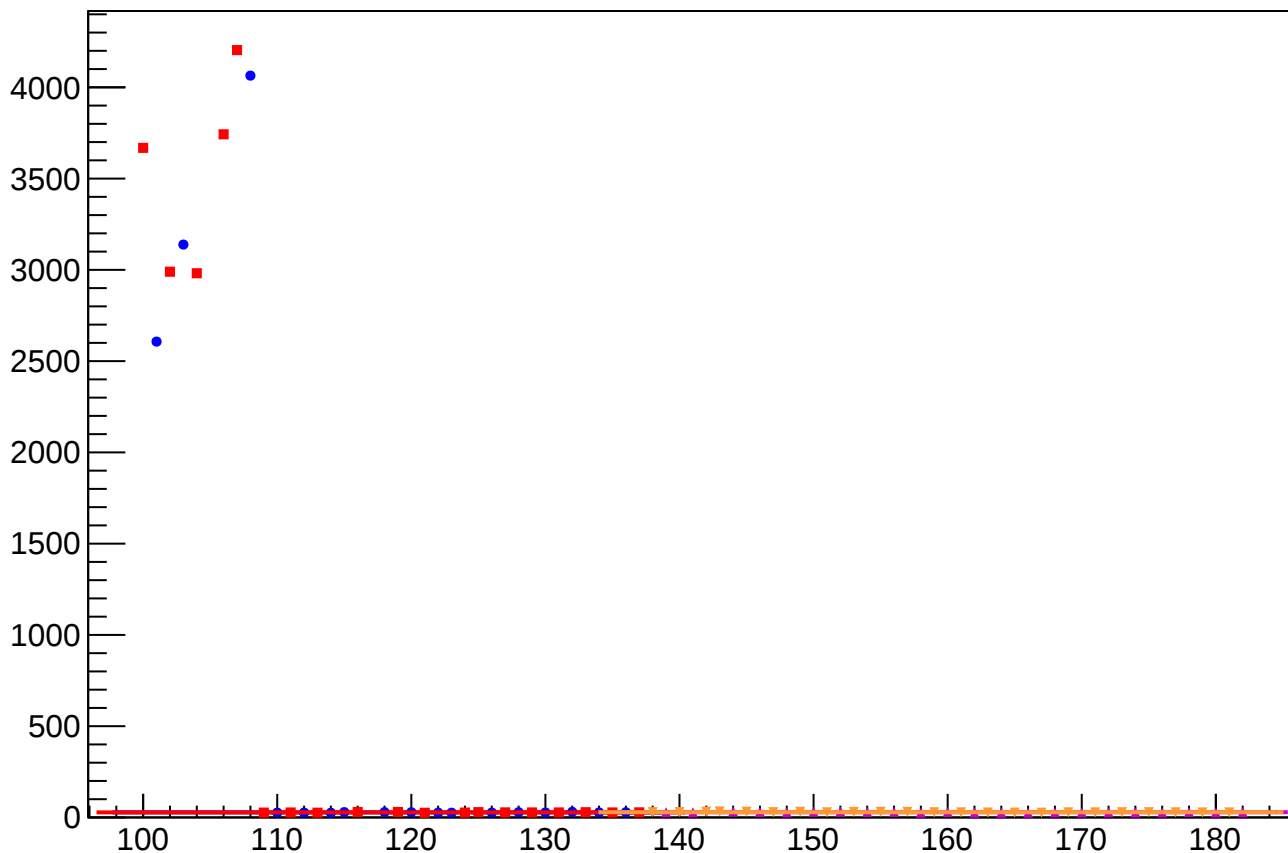
Right: 11.673+/-8.659 χ^2/NDF : 42.1/35

In: 3.676+/-6.053 χ^2/NDF :50.8/38

Out: -9.317+/-6.008 χ^2/NDF :47.7/41

All: -2.868+/-4.264 χ^2/NDF : 100.8/80

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: 28.685+/-0.005 χ^2/NDF : 104845.2/22

Right Out: 27.714+/-0.009 χ^2/NDF : 3476894.0/18

Left In: 28.679+/-0.005 χ^2/NDF : 123805.8/21

Left: 28.682+/-0.003 χ^2/NDF : 228651.8/44

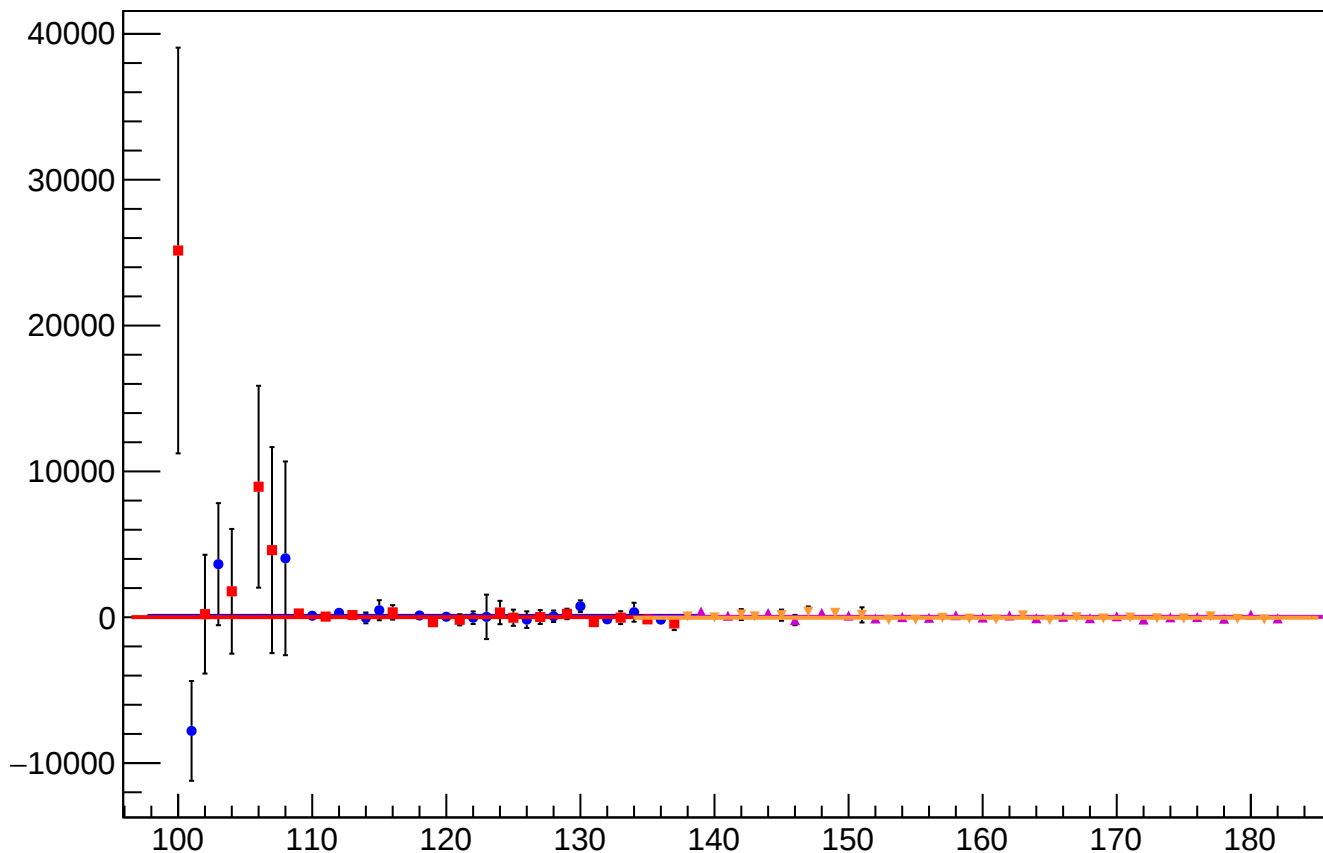
Right: 27.786+/-0.006 χ^2/NDF : 6503982.3/35

In: 28.477+/-0.004 χ^2/NDF : 3157557.8/38

Out: 28.452+/-0.004 χ^2/NDF : 3591265.2/41

All: 28.464+/-0.003 χ^2/NDF : 6748841.5/80

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: -35.066+/-50.478 χ^2/NDF : 6.6/22

Right Out: 9.116+/-80.662 χ^2/NDF : 12.8/18

Left In: 28.839+/-46.453 χ^2/NDF : 7.4/21

Left: -0.464+/-34.181 χ^2/NDF : 14.9/44

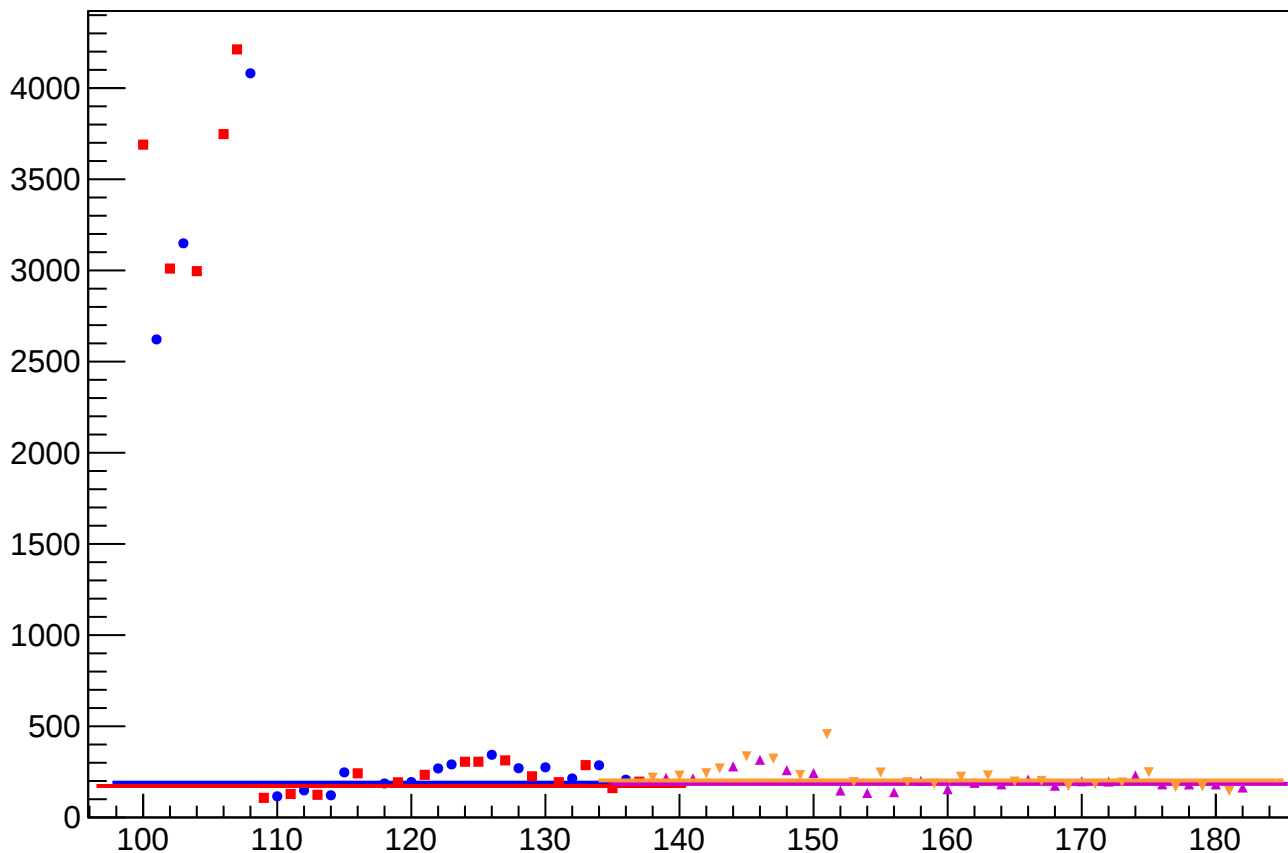
Right: 47.952+/-59.352 χ^2/NDF : 26.0/35

In: 43.086+/-41.044 χ^2/NDF : 20.5/38

Out: -22.632+/-42.790 χ^2/NDF : 19.6/41

All: 11.595+/-29.621 χ^2/NDF : 41.3/80

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: 202.989 $\pm$ 0.036 χ^2 /NDF: 1703518.4/22

Right Out: 172.402 $\pm$ 0.057 χ^2 /NDF: 4212674.3/18

Left In: 184.051 $\pm$ 0.033 χ^2 /NDF: 1397601.2/21

Left: 192.735 $\pm$ 0.024 χ^2 /NDF: 3253540.4/44

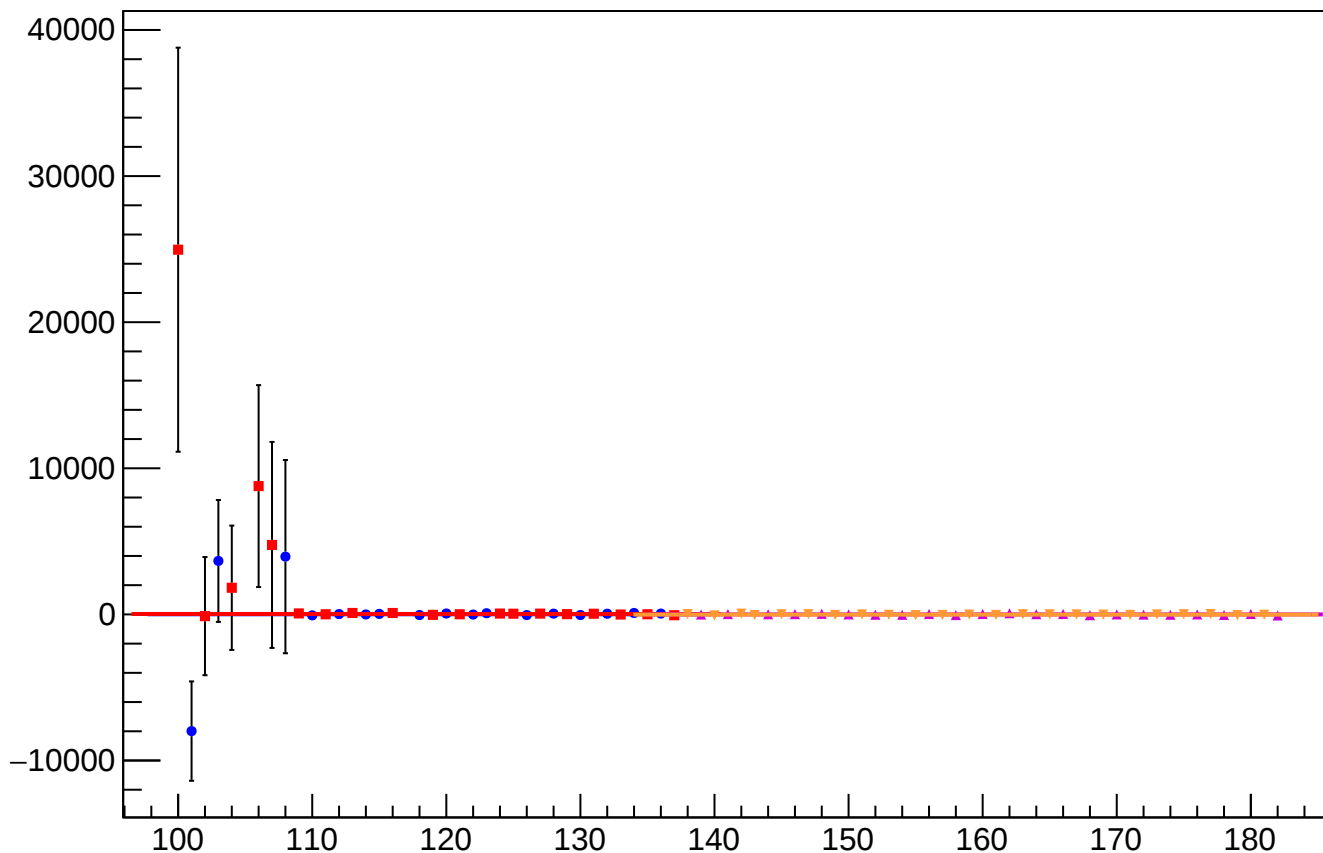
Right: 180.799 $\pm$ 0.042 χ^2 /NDF: 7845341.0/35

In: 185.512 $\pm$ 0.029 χ^2 /NDF: 4992028.3/38

Out: 194.381 $\pm$ 0.030 χ^2 /NDF: 6122840.2/41

All: 189.762 $\pm$ 0.021 χ^2 /NDF: 11159621.3/80

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: -13.593+/-6.924 χ^2/NDF :14.6/22

Right Out: 28.414+/-12.365 χ^2/NDF : 16.2/18

Left In: -0.214+/-6.996 χ^2/NDF :26.0/21

Left: -6.972+/-4.921 χ^2/NDF : 42.5/44

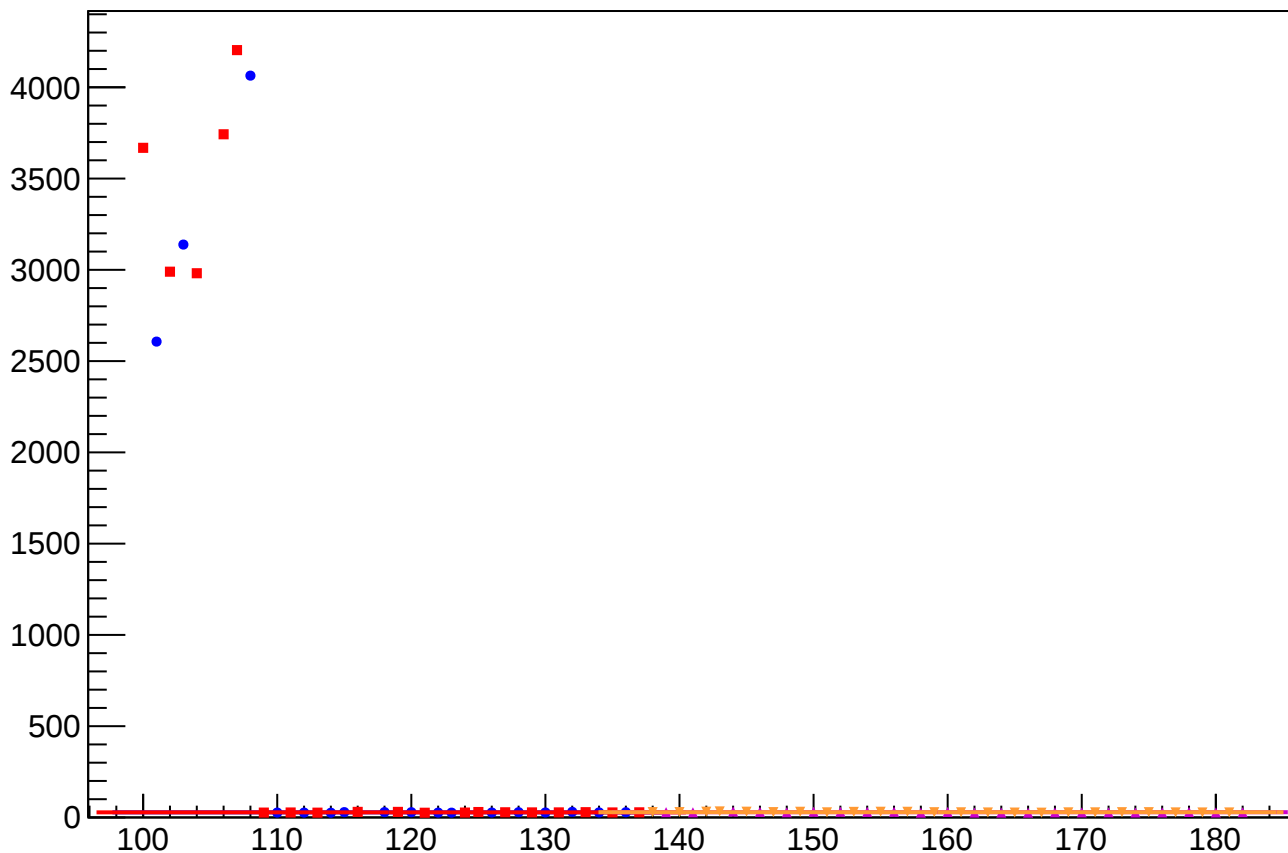
Right: 18.908+/-8.724 χ^2/NDF : 39.9/35

In: 2.155+/-6.082 χ^2/NDF :49.0/38

Out: -3.565+/-6.041 χ^2/NDF :39.6/41

All: -0.724+/-4.286 χ^2/NDF : 89.1/80

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: 28.812 $\pm$ 0.005 χ^2 /NDF: 116068.8/22

Right Out: 27.934 $\pm$ 0.009 χ^2 /NDF: 3479779.2/18

Left In: 28.801 $\pm$ 0.005 χ^2 /NDF: 128236.7/21

Left: 28.807 $\pm$ 0.003 χ^2 /NDF: 244307.8/44

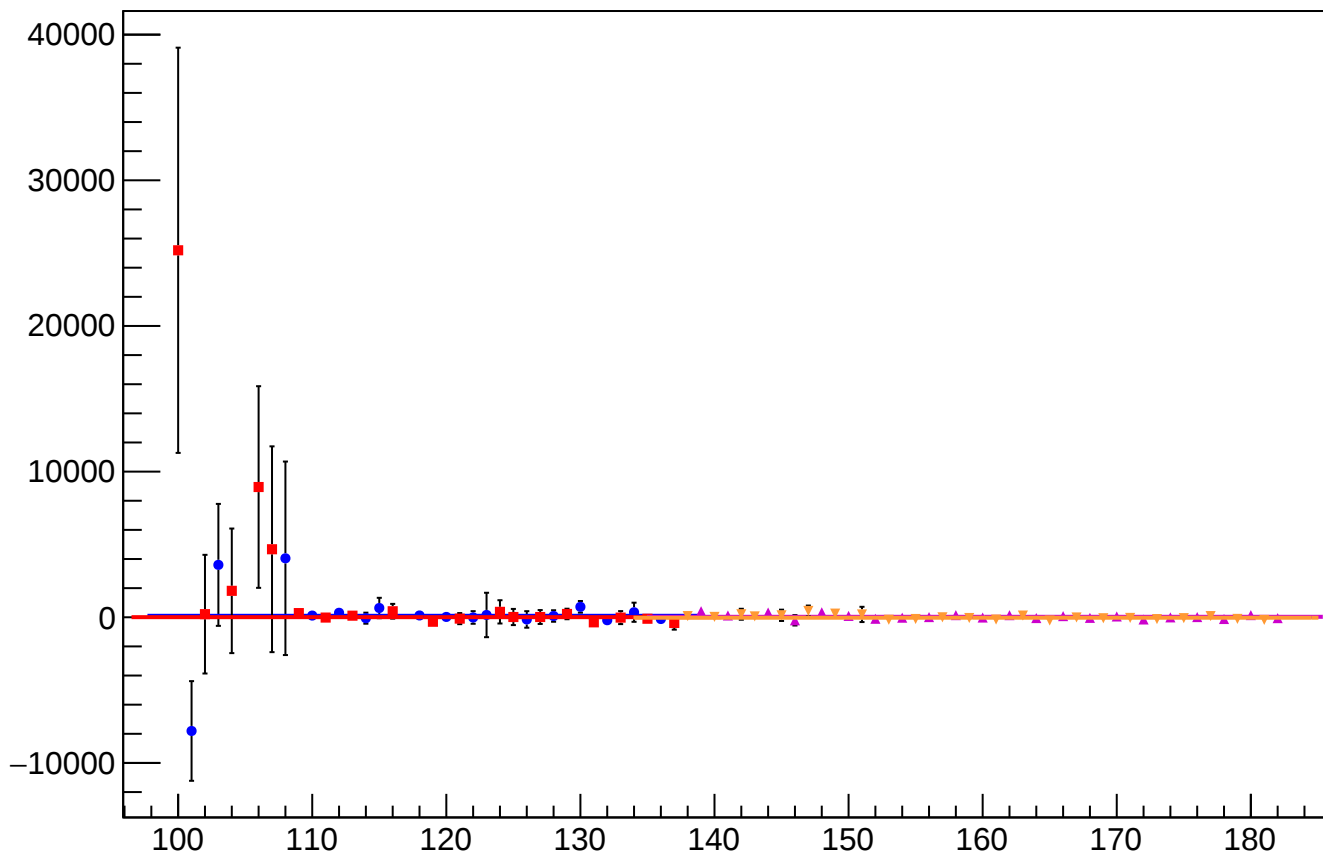
Right: 27.988 $\pm$ 0.006 χ^2 /NDF: 6507169.2/35

In: 28.616 $\pm$ 0.004 χ^2 /NDF: 3161319.0/38

Out: 28.602 $\pm$ 0.004 χ^2 /NDF: 3603517.0/41

All: 28.609 $\pm$ 0.003 χ^2 /NDF: 6764840.9/80

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: -30.136 $\pm$ 51.057 χ^2 /NDF: 6.9/22

Right Out: 7.957 $\pm$ 81.751 χ^2 /NDF: 12.3/18

Left In: 32.558 $\pm$ 47.031 χ^2 /NDF: 7.8/21

Left: 3.781 $\pm$ 34.592 χ^2 /NDF: 15.5/44

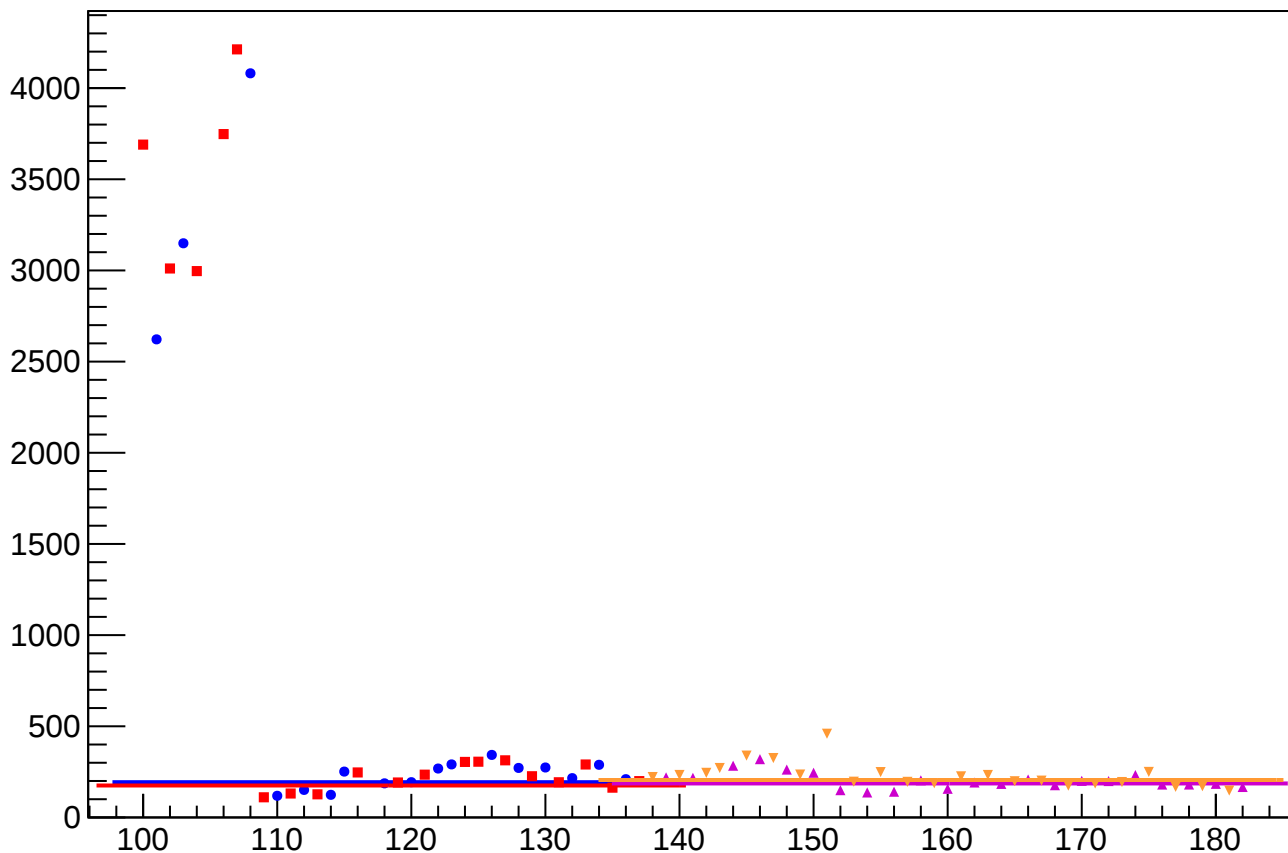
Right: 50.971 $\pm$ 60.108 χ^2 /NDF: 25.4/35

In: 47.711 $\pm$ 41.549 χ^2 /NDF: 20.8/38

Out: -19.446 $\pm$ 43.305 χ^2 /NDF: 19.3/41

All: 15.521 $\pm$ 29.981 χ^2 /NDF: 41.4/80

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.420+/-0.063 χ^2/NDF : 3538238.9/16

Left Out: 205.412+/-0.036 χ^2/NDF : 1688658.0/22

Right Out: 175.281+/-0.058 χ^2/NDF : 4160209.8/18

Left In: 186.477+/-0.033 χ^2/NDF : 1366889.0/21

Left: 195.169+/-0.024 χ^2/NDF : 3204356.3/44

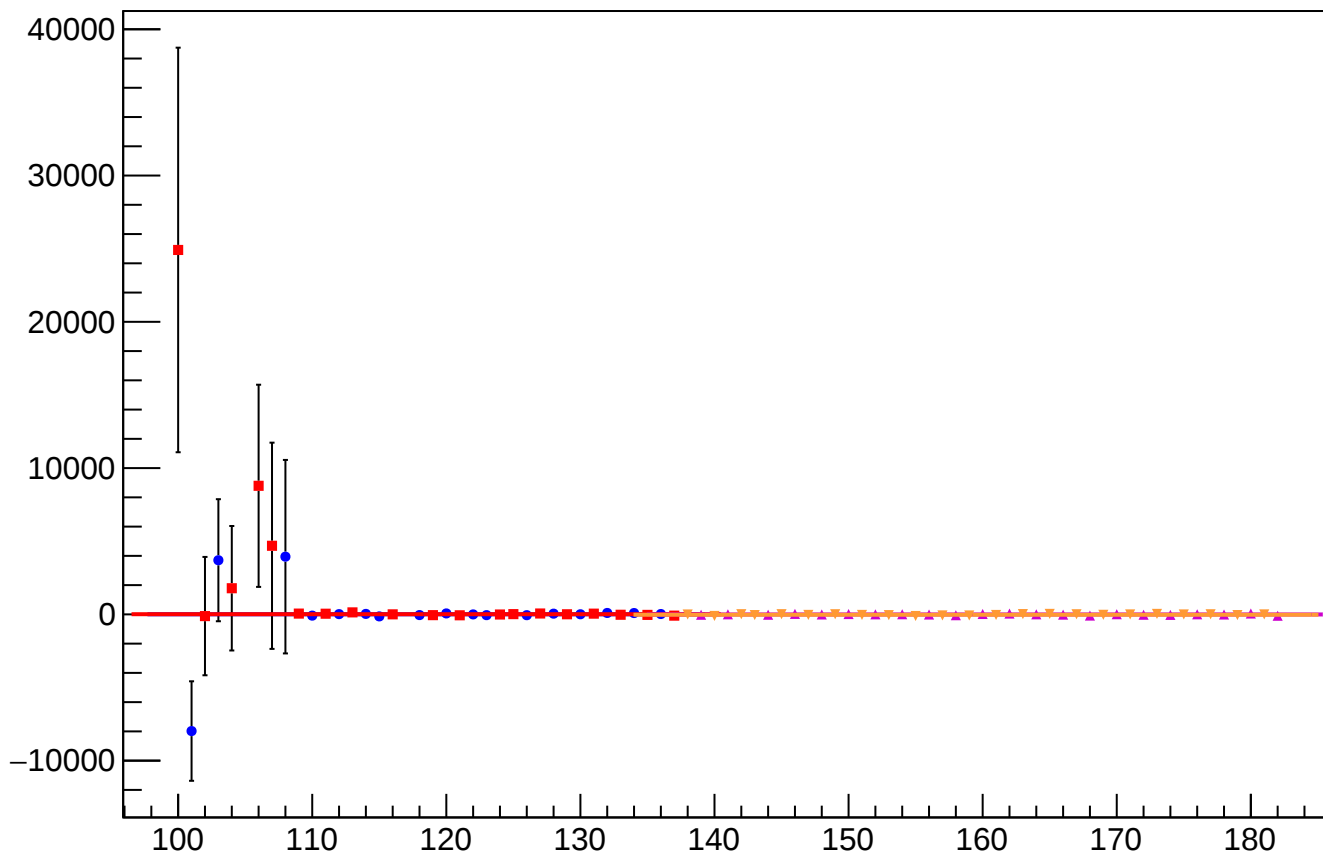
Right: 183.614+/-0.043 χ^2/NDF : 7743679.8/35

In: 188.001+/-0.029 χ^2/NDF : 4914695.1/38

Out: 196.957+/-0.031 χ^2/NDF : 6044316.0/41

All: 192.294+/-0.021 χ^2/NDF : 11003552.9/80

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: -24.559+/-8.297 χ^2/NDF :22.8/22

Right Out: 11.632+/-14.990 χ^2/NDF : 21.2/18

Left In: -5.347+/-8.409 χ^2/NDF :20.7/21

Left: -15.082+/-5.906 χ^2/NDF : 46.1/44

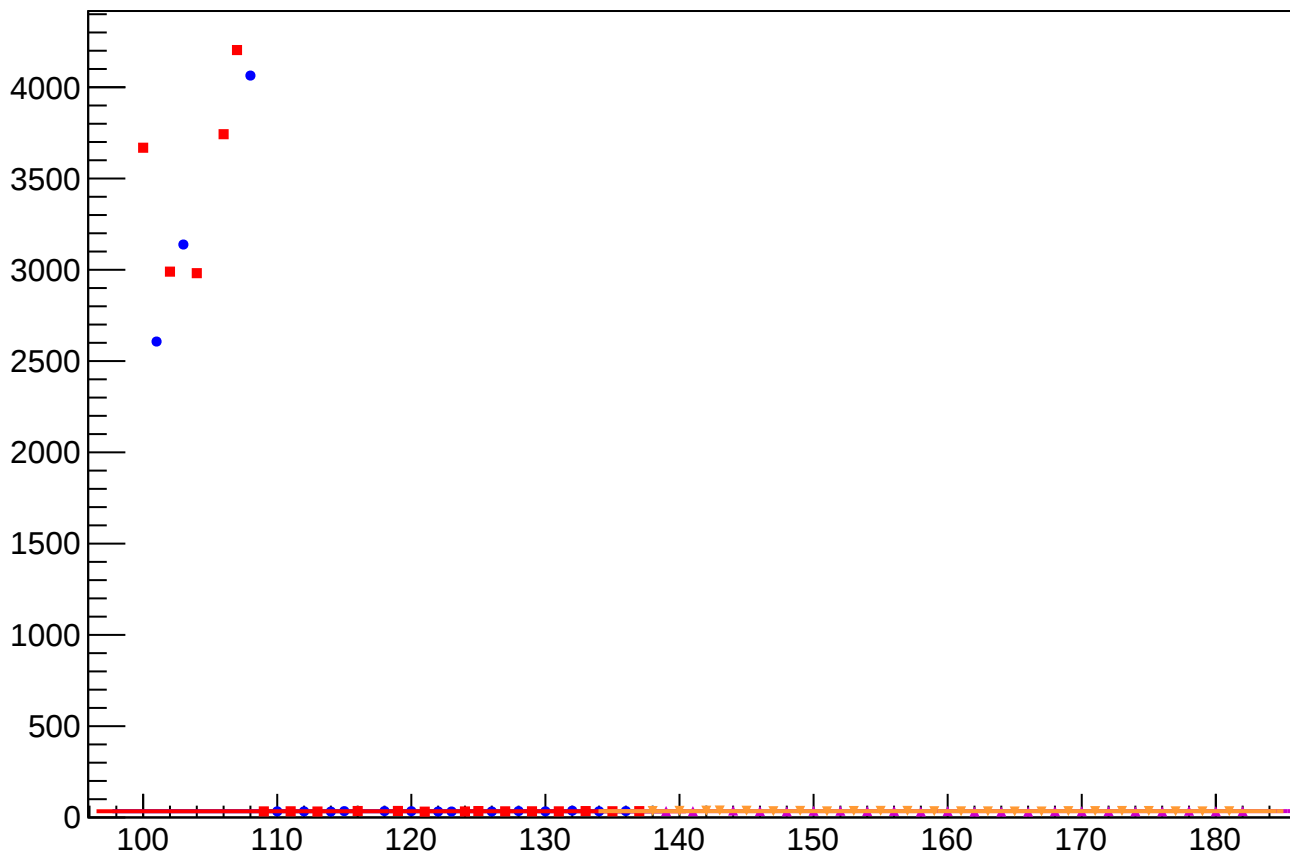
Right: 8.903+/-10.597 χ^2/NDF : 41.4/35

In: -2.587+/-7.333 χ^2/NDF :41.2/38

Out: -16.072+/-7.259 χ^2/NDF :48.4/41

All: -9.397+/-5.159 χ^2/NDF : 91.4/80

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.169+/-0.011 χ^2 /NDF: 3006128.0/16

Left Out: 34.578+/-0.006 χ^2 /NDF:54134.9/22

Right Out: 33.933+/-0.011 χ^2 /NDF: 3451992.5/18

Left In: 34.678+/-0.006 χ^2 /NDF:59804.6/21

Left: 34.627+/-0.004 χ^2 /NDF: 114082.5/44

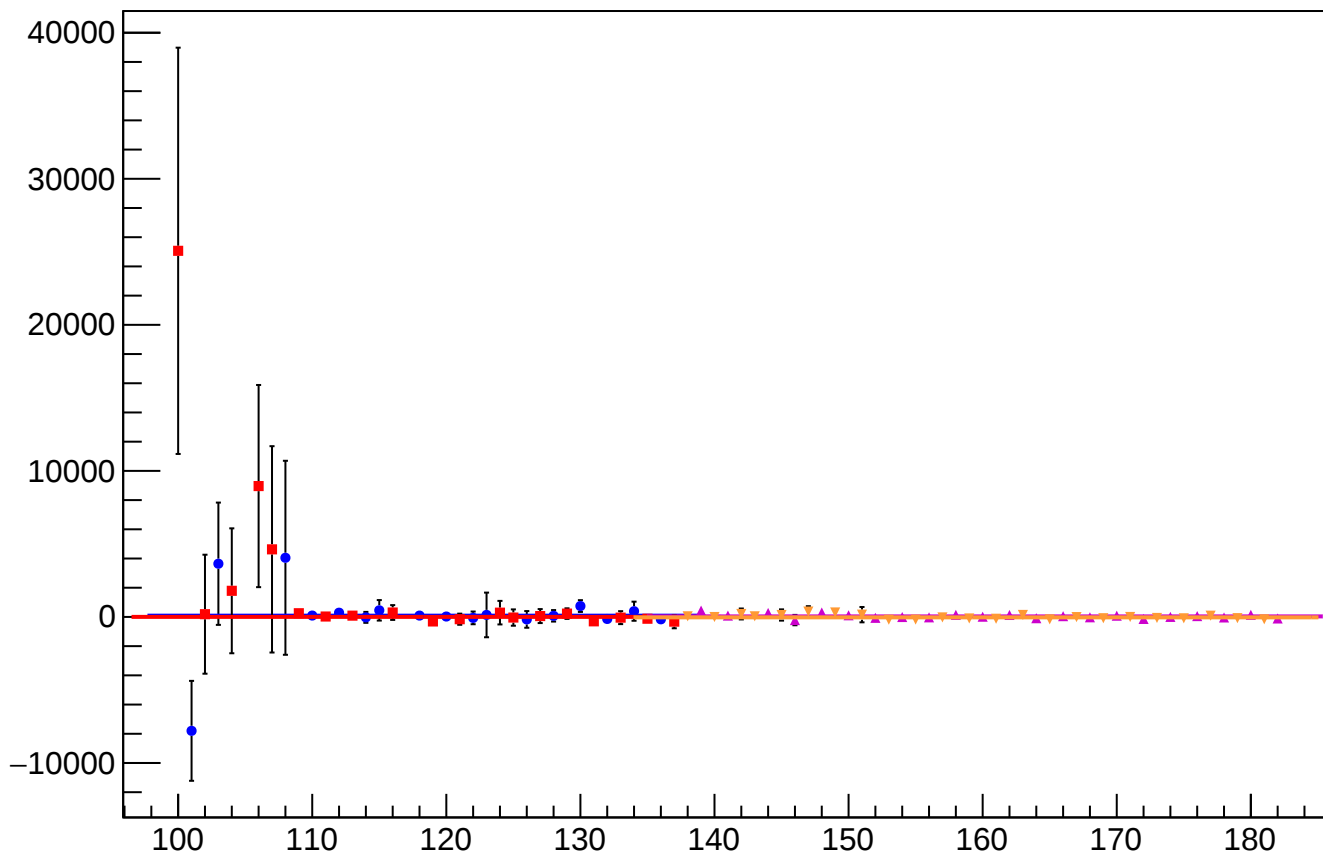
Right: 34.051+/-0.007 χ^2 /NDF: 6458368.2/35

In: 34.556+/-0.005 χ^2 /NDF:3067688.4/38

Out: 34.426+/-0.005 χ^2 /NDF:3508962.3/41

All: 34.490+/-0.004 χ^2 /NDF: 6576964.3/80

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: -28.752 $\pm$ 51.004 χ^2 /NDF: 6.5/22

Right Out: 3.827 $\pm$ 81.231 χ^2 /NDF: 11.1/18

Left In: 37.006 $\pm$ 46.972 χ^2 /NDF: 7.0/21

Left: 6.829 $\pm$ 34.552 χ^2 /NDF: 14.5/44

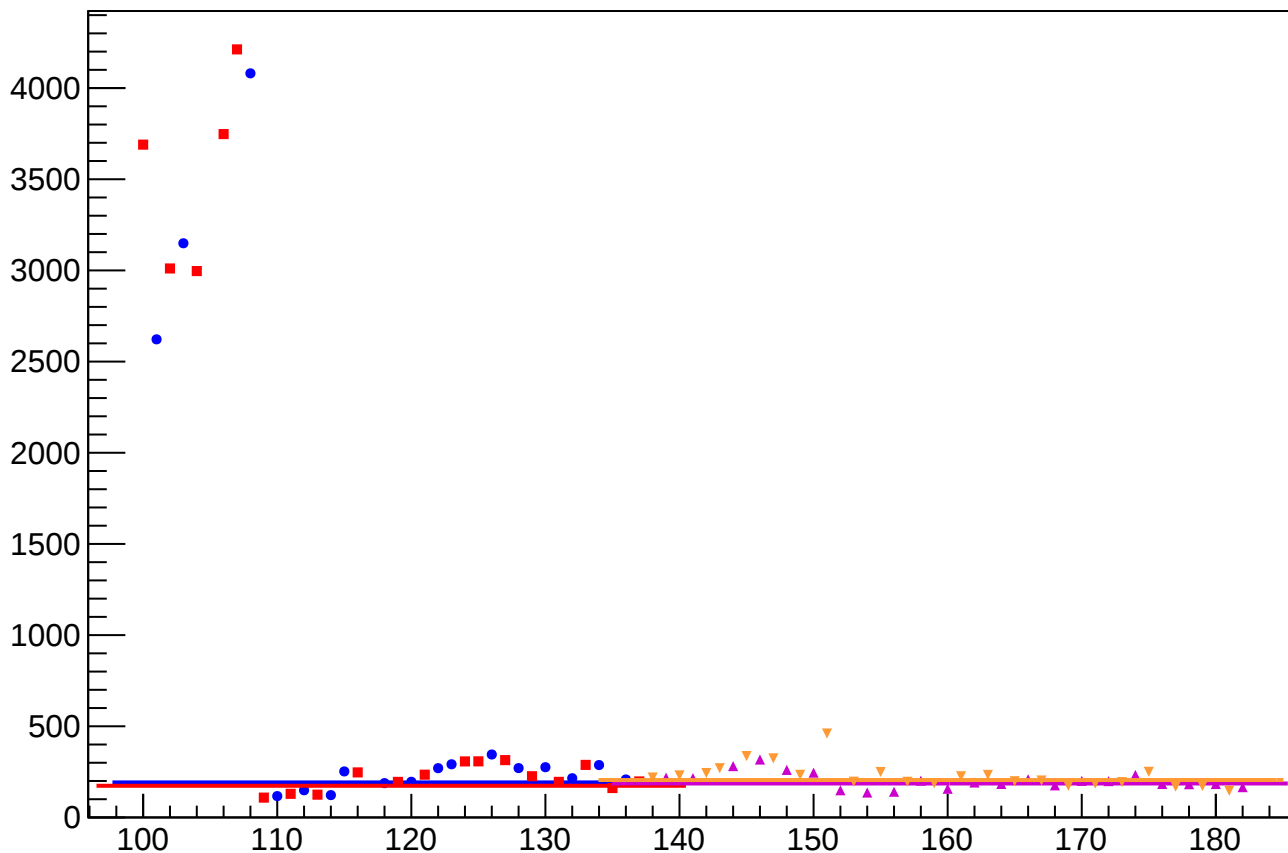
Right: 41.847 $\pm$ 59.764 χ^2 /NDF: 24.1/35

In: 47.981 $\pm$ 41.463 χ^2 /NDF: 19.8/38

Out: -19.540 $\pm$ 43.195 χ^2 /NDF: 17.8/41

All: 15.601 $\pm$ 29.912 χ^2 /NDF: 38.8/80

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.118+/-0.062 χ^2/NDF : 3575311.3/16

Left Out: 205.216+/-0.036 χ^2/NDF : 1675690.5/22

Right Out: 173.728+/-0.057 χ^2/NDF : 4205626.6/18

Left In: 186.245+/-0.033 χ^2/NDF : 1356616.7/21

Left: 194.951+/-0.024 χ^2/NDF : 3182034.3/44

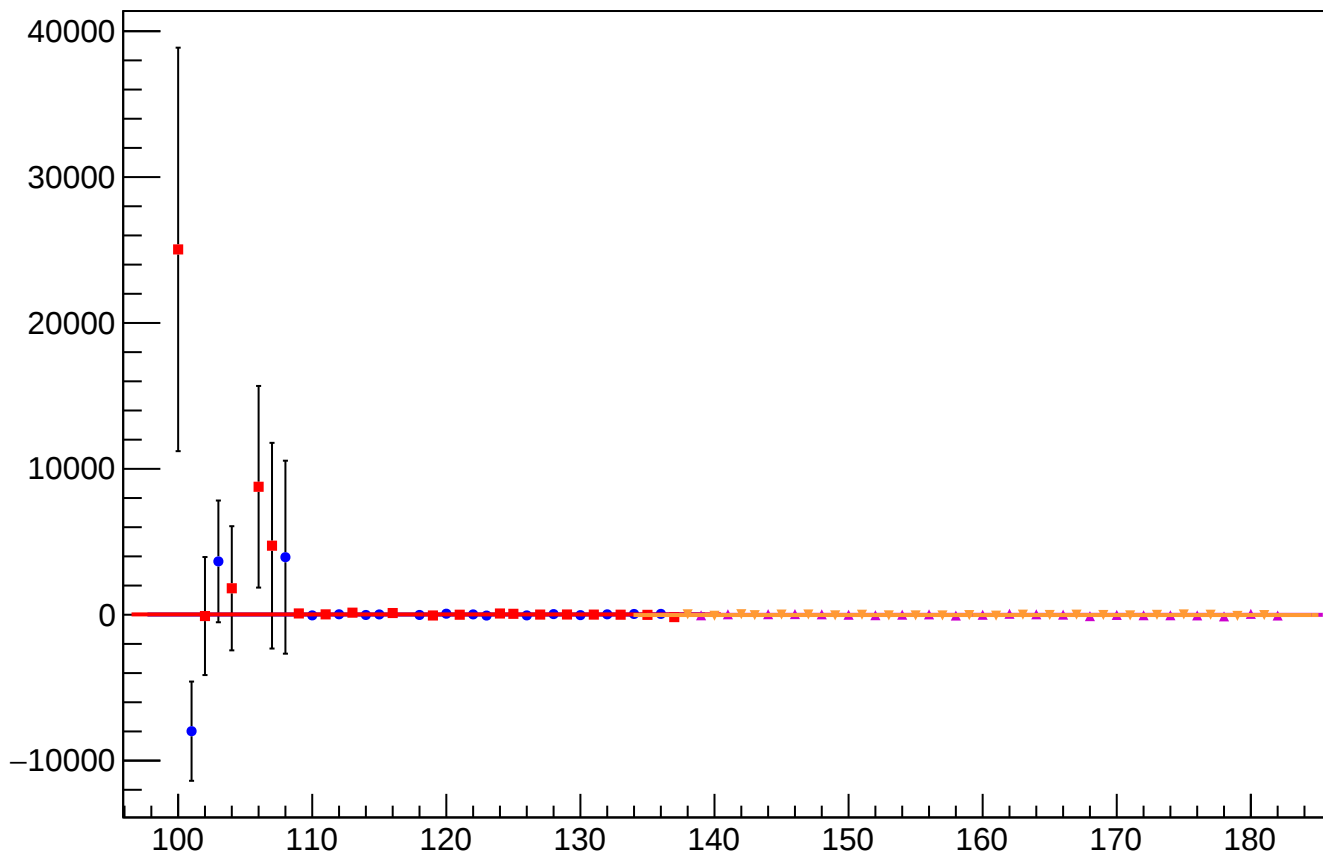
Right: 182.163+/-0.042 χ^2/NDF : 7827959.7/35

In: 187.541+/-0.029 χ^2/NDF : 4938832.7/38

Out: 196.312+/-0.031 χ^2/NDF : 6096869.4/41

All: 191.748+/-0.021 χ^2/NDF : 11078620.1/80

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: -21.201+/-7.555 χ^2/NDF : 16.9/22

Right Out: 22.859+/-13.697 χ^2/NDF : 27.3/18

Left In: -6.375+/-7.639 χ^2/NDF : 38.7/21

Left: -13.870+/-5.372 χ^2/NDF : 57.5/44

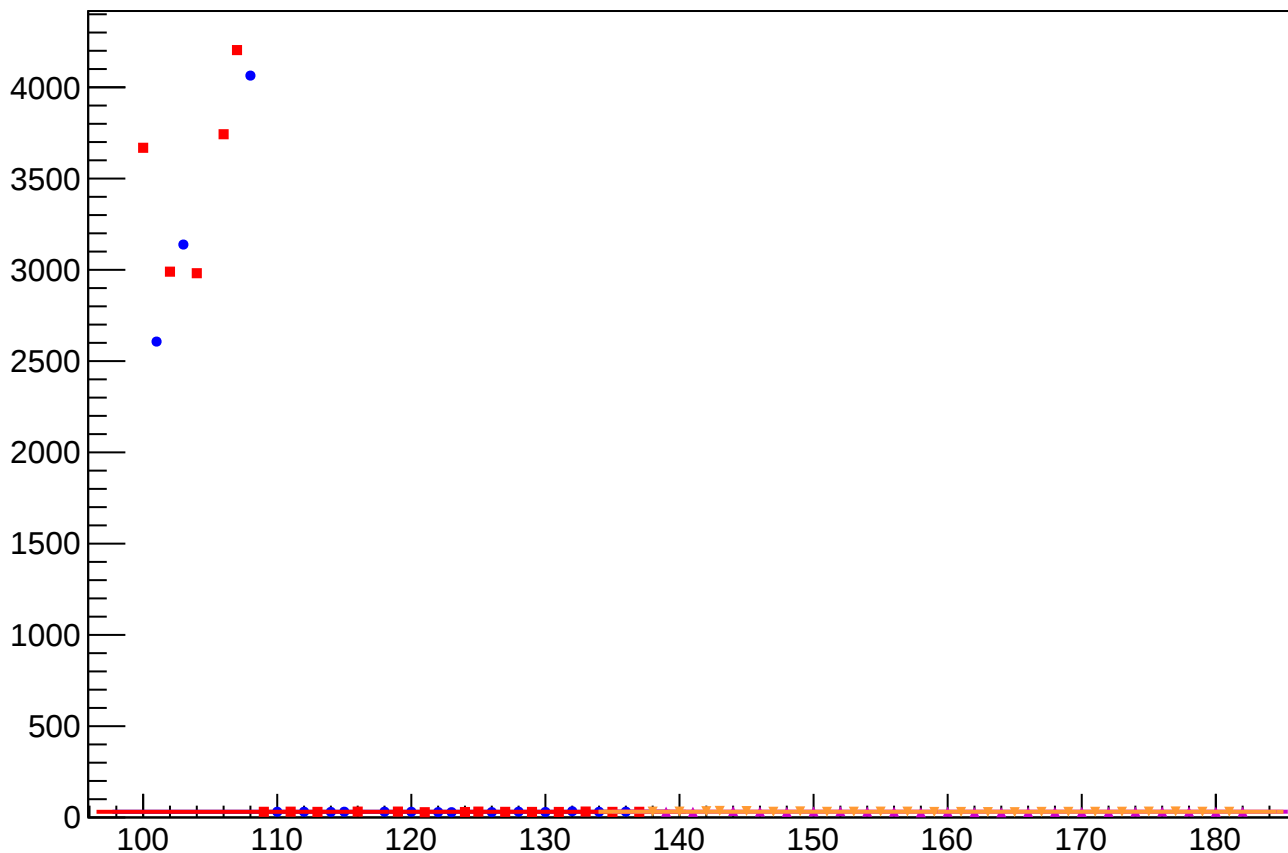
Right: 18.531+/-9.673 χ^2/NDF : 42.3/35

In: -1.468+/-6.668 χ^2/NDF : 55.2/38

Out: -10.923+/-6.615 χ^2/NDF : 52.2/41

All: -6.233+/-4.696 χ^2/NDF : 108.4/80

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: 31.463+/-0.005 χ^2/NDF : 76920.8/22

Right Out: 30.985+/-0.010 χ^2/NDF : 3458900.0/18

Left In: 31.471+/-0.005 χ^2/NDF : 87760.3/21

Left: 31.467+/-0.004 χ^2/NDF : 164682.2/44

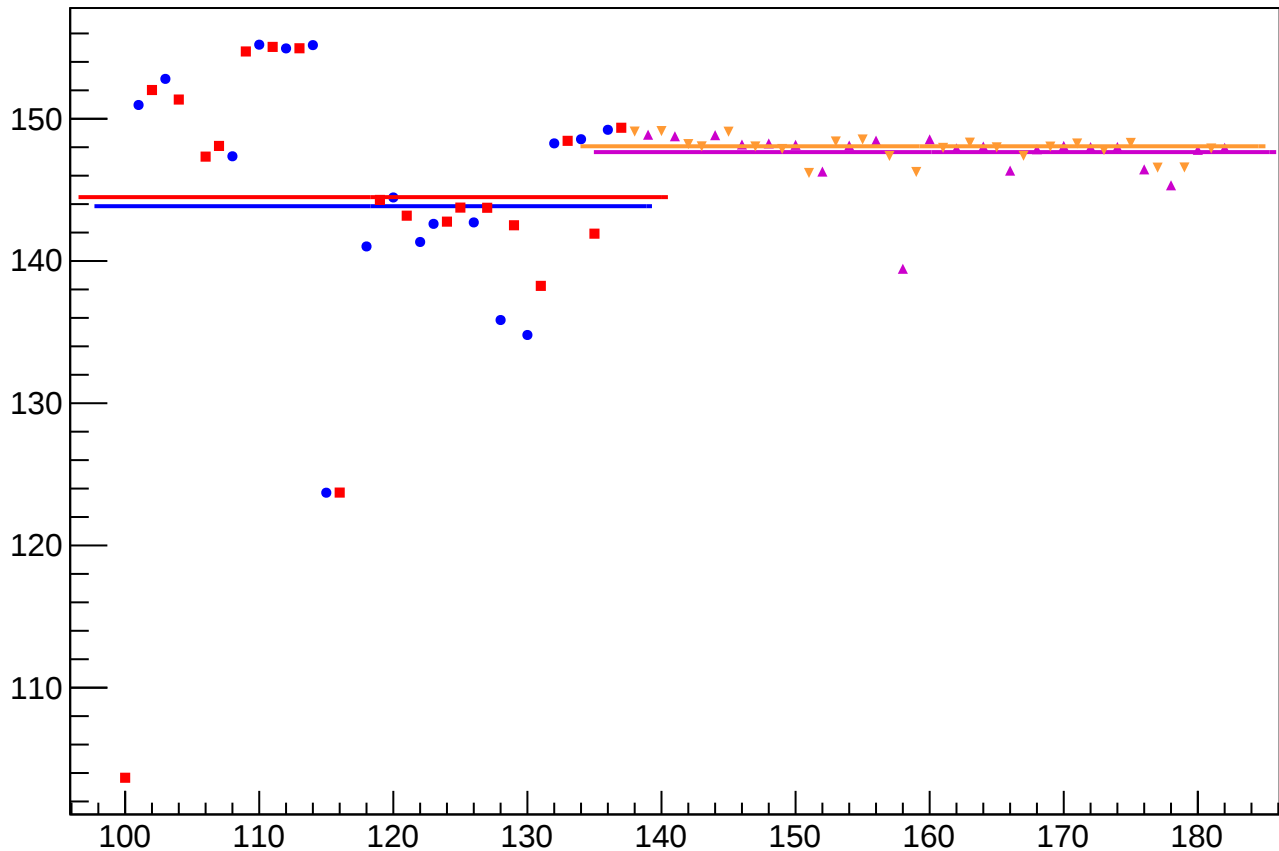
Right: 31.071+/-0.007 χ^2/NDF : 6473226.1/35

In: 31.396+/-0.005 χ^2/NDF : 3102729.3/38

Out: 31.352+/-0.005 χ^2/NDF : 3537691.0/41

All: 31.374+/-0.003 χ^2/NDF : 6640465.9/80

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.854 $\pm$ 0.000 χ^2 /NDF: 3448306444.5/16

Left Out: 148.067 $\pm$ 0.000 χ^2 /NDF: 65573146.2/22

Right Out: 144.491 $\pm$ 0.000 χ^2 /NDF: 4184461794.3/18

Left In: 147.657 $\pm$ 0.000 χ^2 /NDF: 343792501.2/21

Left: 147.867 $\pm$ 0.000 χ^2 /NDF: 416676915.2/44

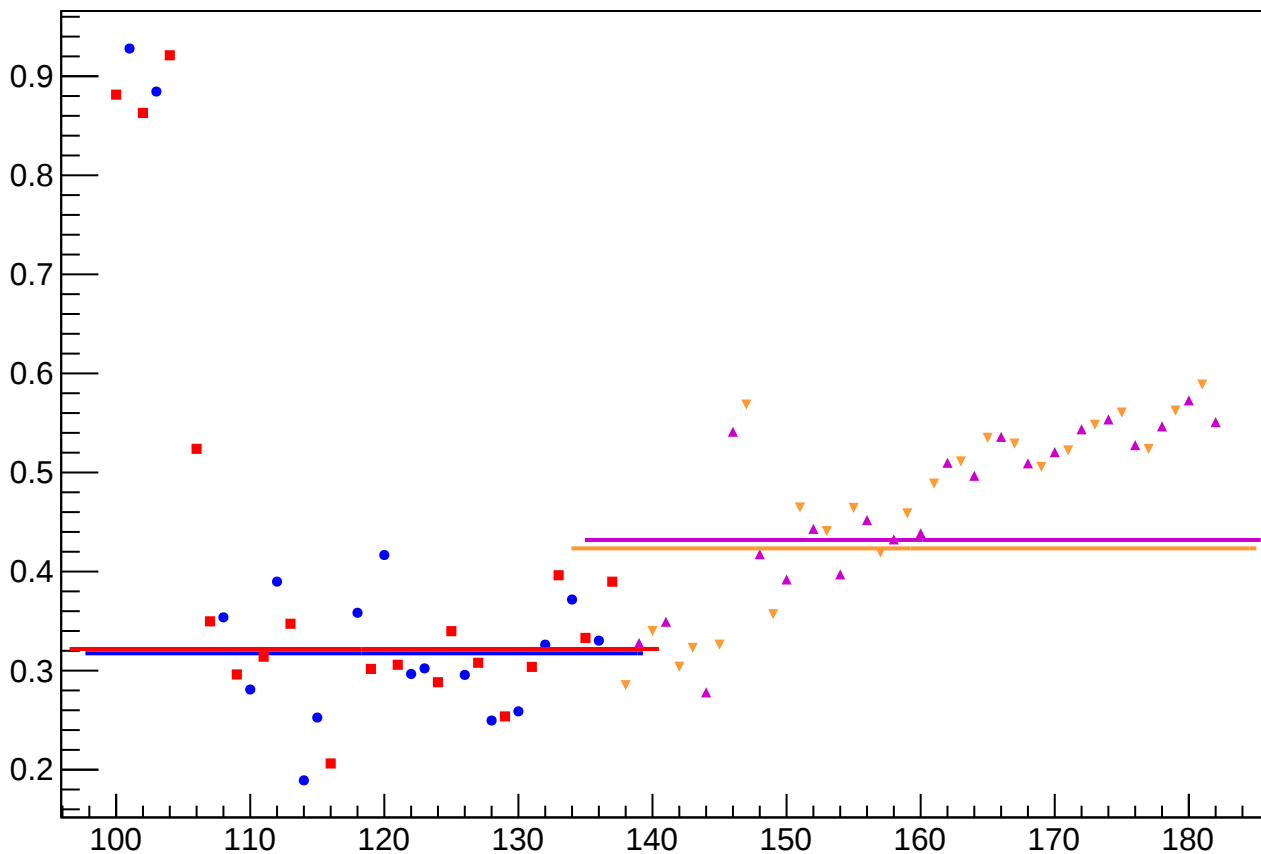
Right: 144.176 $\pm$ 0.000 χ^2 /NDF: 7644095101.6/35

In: 146.160 $\pm$ 0.000 χ^2 /NDF: 4276745748.4/38

Out: 146.682 $\pm$ 0.000 χ^2 /NDF: 4692183343.8/41

All: 146.426 $\pm$ 0.000 χ^2 /NDF: 8988439262.6

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1273243.2/16

Left Out: 0.423+/-0.000 χ^2/NDF : 1721032.7/22

Right Out: 0.322+/-0.000 χ^2/NDF : 1215219.2/18

Left In: 0.432+/-0.000 χ^2/NDF : 1428634.5/21

Left: 0.428+/-0.000 χ^2/NDF : 3155967.1/44

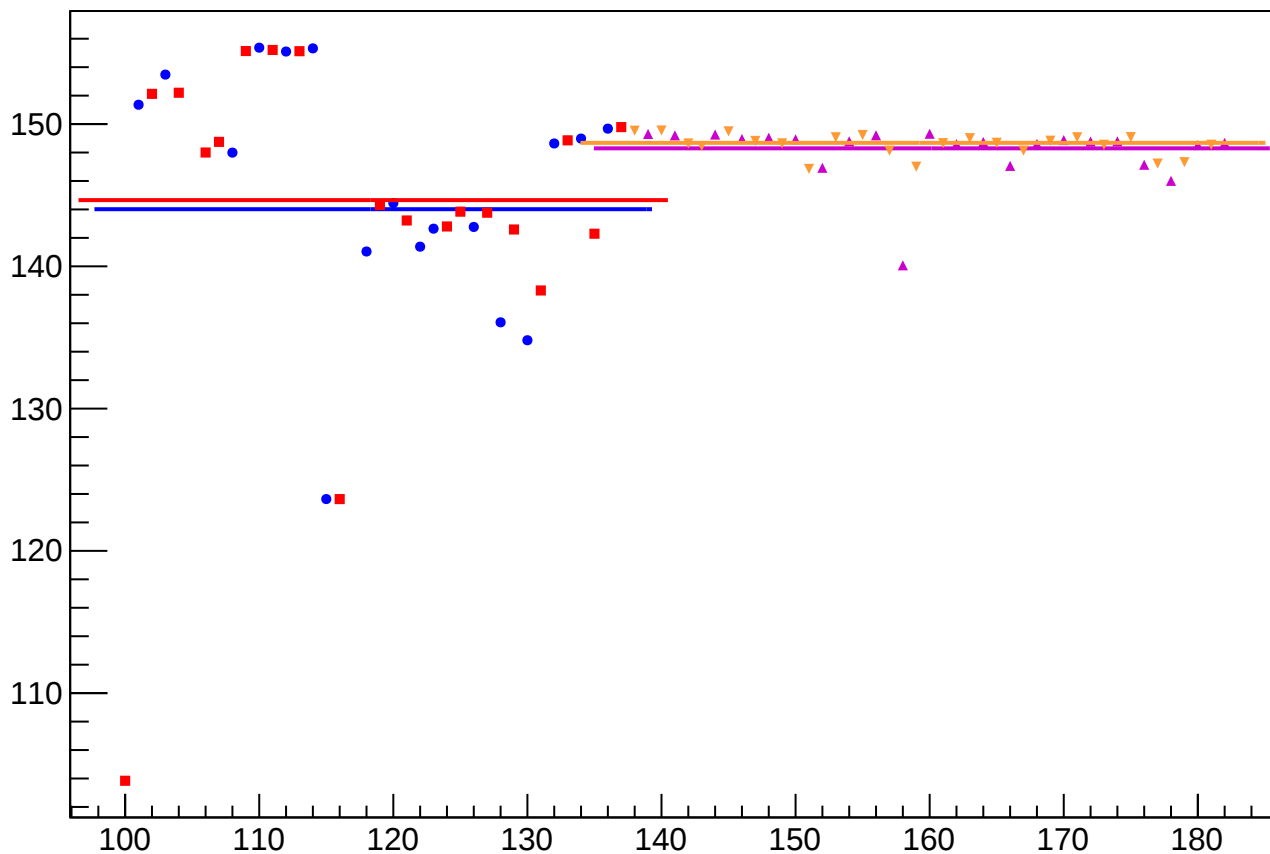
Right: 0.320+/-0.000 χ^2/NDF : 2489538.1/35

In: 0.387+/-0.000 χ^2/NDF : 3579338.2/38

Out: 0.384+/-0.000 χ^2/NDF : 3649288.7/41

All: 0.385+/-0.000 χ^2/NDF : 7229721.4/80

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.016+/-0.000 χ^2/NDF : 3492221319.5/16

Left Out: 148.680+/-0.000 χ^2/NDF : 52514317.5/22

Right Out: 144.655+/-0.000 χ^2/NDF : 4208783732.4/18

Left In: 148.294+/-0.000 χ^2/NDF : 332405294.3/21

Left: 148.492+/-0.000 χ^2/NDF : 391269790.4/44

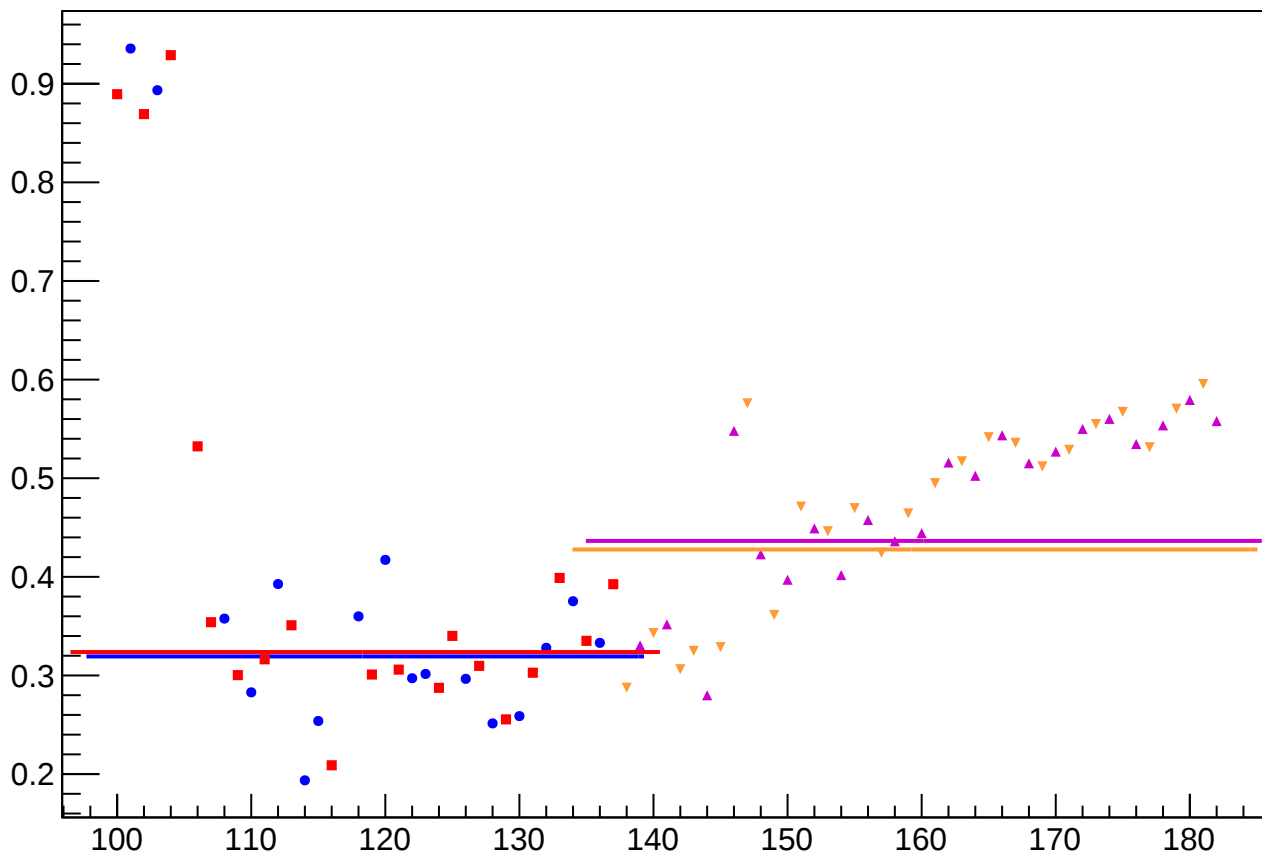
Right: 144.339+/-0.000 χ^2/NDF : 7712254878.2/35

In: 146.600+/-0.000 χ^2/NDF : 4428371928.1/38

Out: 147.113+/-0.000 χ^2/NDF : 4812848015.7/41

All: 146.861+/-0.000 χ^2/NDF : 9259703793.8

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2 /NDF: 1274809.7/16

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1751112.8/22

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1217547.6/18

Left In: 0.436 $\pm$ 0.000 χ^2 /NDF:1453504.6/21

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3211039.8/44

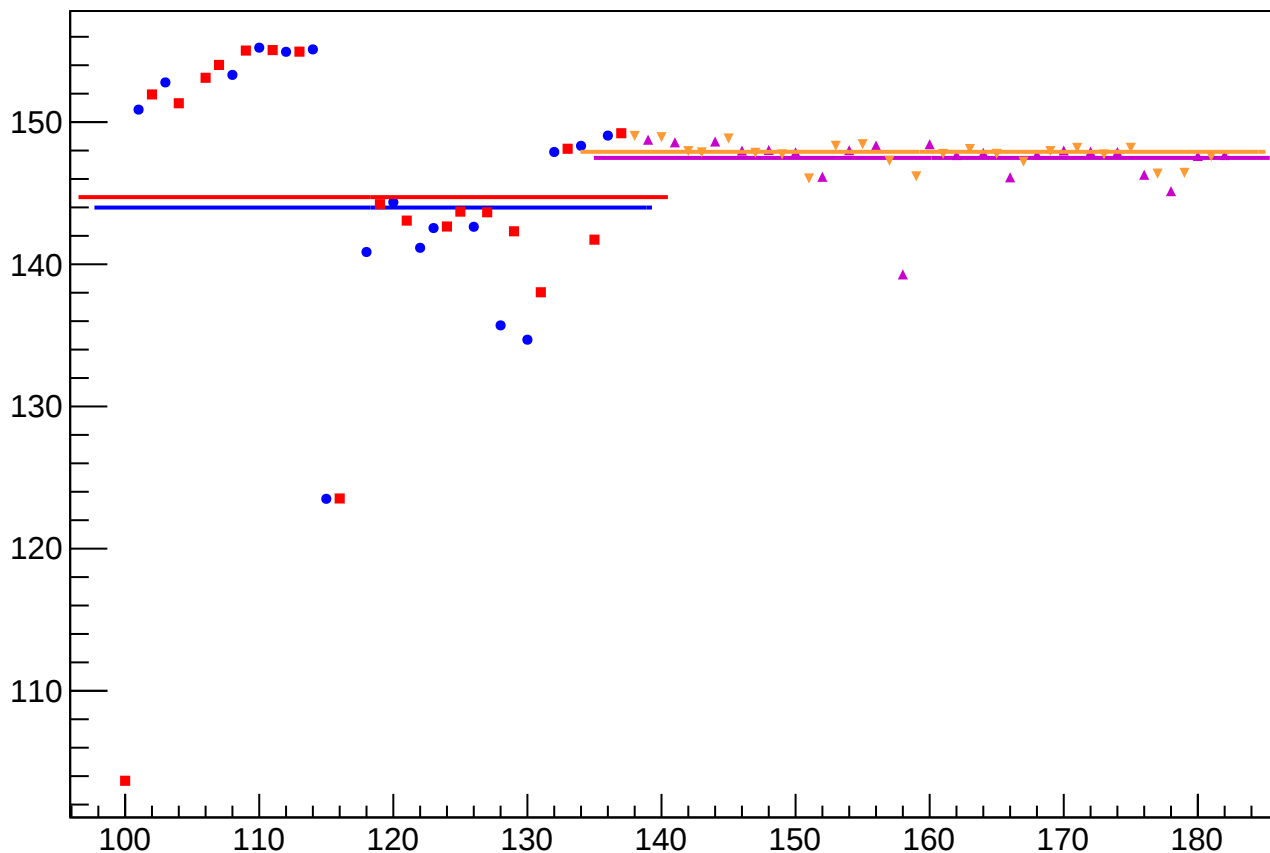
Right: 0.322 $\pm$ 0.000 χ^2 /NDF: 2493460.6/35

In: 0.390 $\pm$ 0.000 χ^2 /NDF:3633401.4/38

Out: 0.387 $\pm$ 0.000 χ^2 /NDF:3704678.6/41

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7339158.9/80

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.990 $\pm$ 0.000 χ^2 /NDF: 3661758828.8/16

Left Out: 147.910 $\pm$ 0.000 χ^2 /NDF: 64265160.3/22

Right Out: 144.724 $\pm$ 0.000 χ^2 /NDF: 4474261871.8/18

Left In: 147.482 $\pm$ 0.000 χ^2 /NDF: 342643562.7/21

Left: 147.701 $\pm$ 0.000 χ^2 /NDF: 414853953.8/44

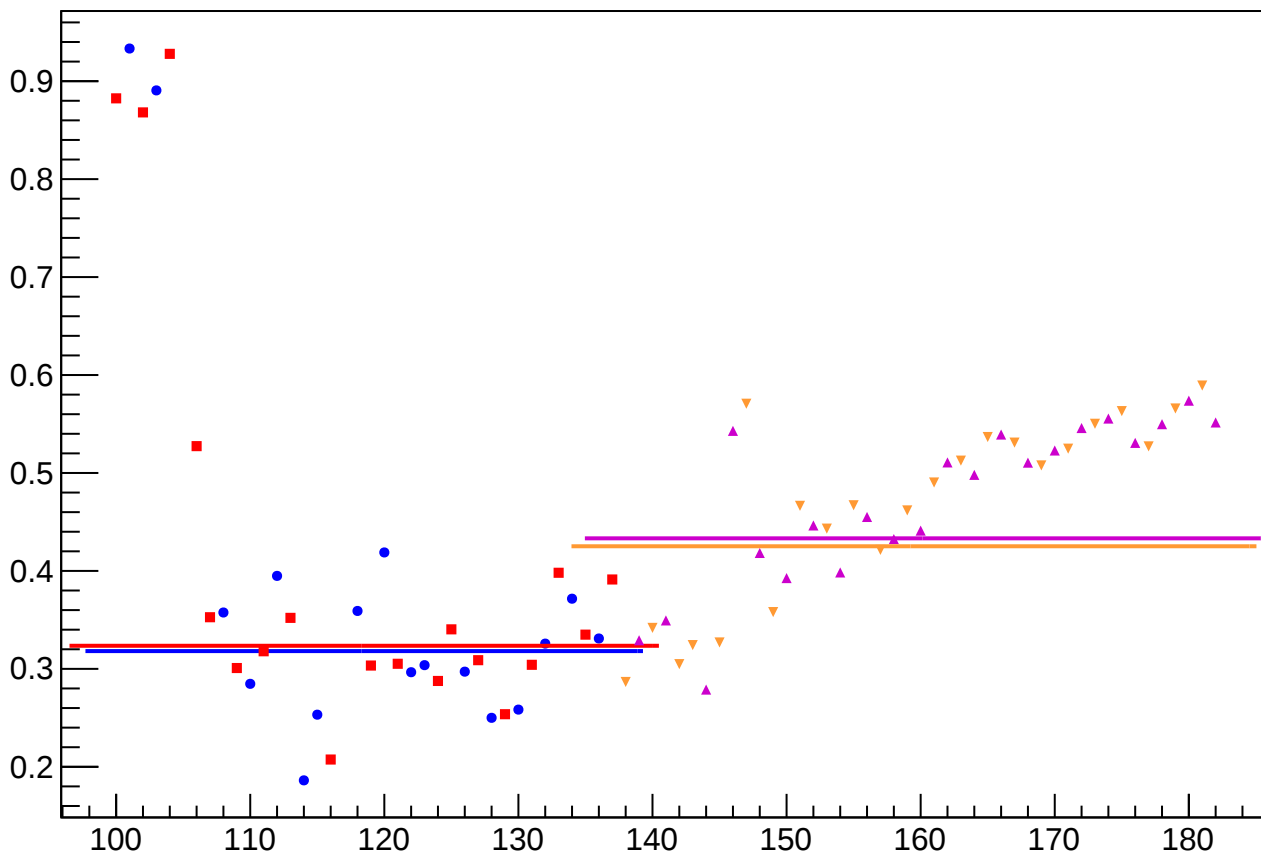
Right: 144.360 $\pm$ 0.000 χ^2 /NDF: 8150942060.9/35

In: 146.107 $\pm$ 0.000 χ^2 /NDF: 4410402448.9/38

Out: 146.678 $\pm$ 0.000 χ^2 /NDF: 4886118480.9/41

All: 146.397 $\pm$ 0.000 χ^2 /NDF: 9319712006.9

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.318+/-0.000 χ^2/NDF : 1287972.7/16

Left Out: 0.425+/-0.000 χ^2/NDF : 1722582.8/22

Right Out: 0.324+/-0.000 χ^2/NDF : 1220104.3/18

Left In: 0.433+/-0.000 χ^2/NDF : 1435401.9/21

Left: 0.429+/-0.000 χ^2/NDF : 3163661.2/44

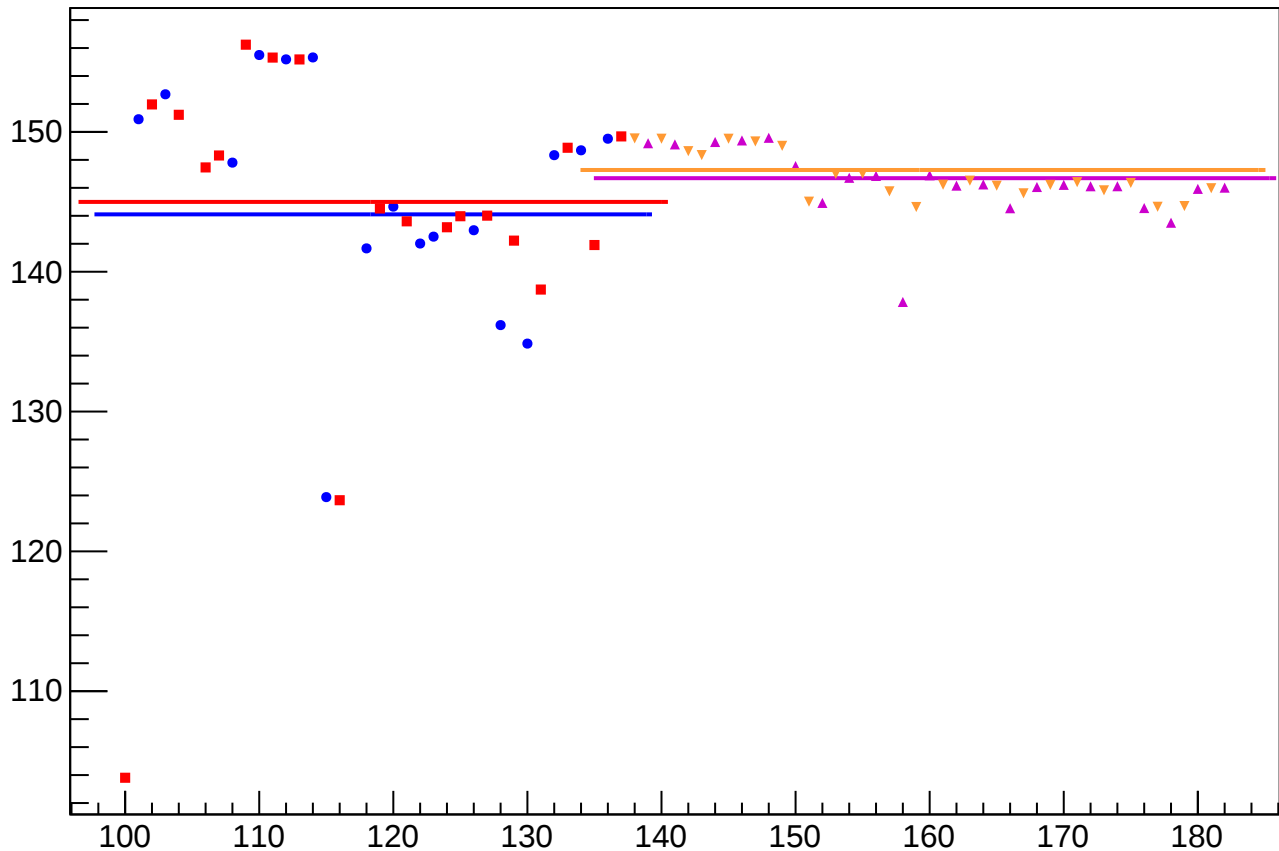
Right: 0.321+/-0.000 χ^2/NDF : 2509712.1/35

In: 0.388+/-0.000 χ^2/NDF : 3605947.7/38

Out: 0.386+/-0.000 χ^2/NDF : 3649353.9/41

All: 0.387+/-0.000 χ^2/NDF : 7255893.6/80

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.104 $\pm$ 0.000 χ^2 /NDF: 3160280337.5/16

Left Out: 147.277 $\pm$ 0.000 χ^2 /NDF: 255655160.6/22

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3854490205.5/18

Left In: 146.691 $\pm$ 0.000 χ^2 /NDF: 554538220.4/21

Left: 146.991 $\pm$ 0.000 χ^2 /NDF: 824274570.2/44

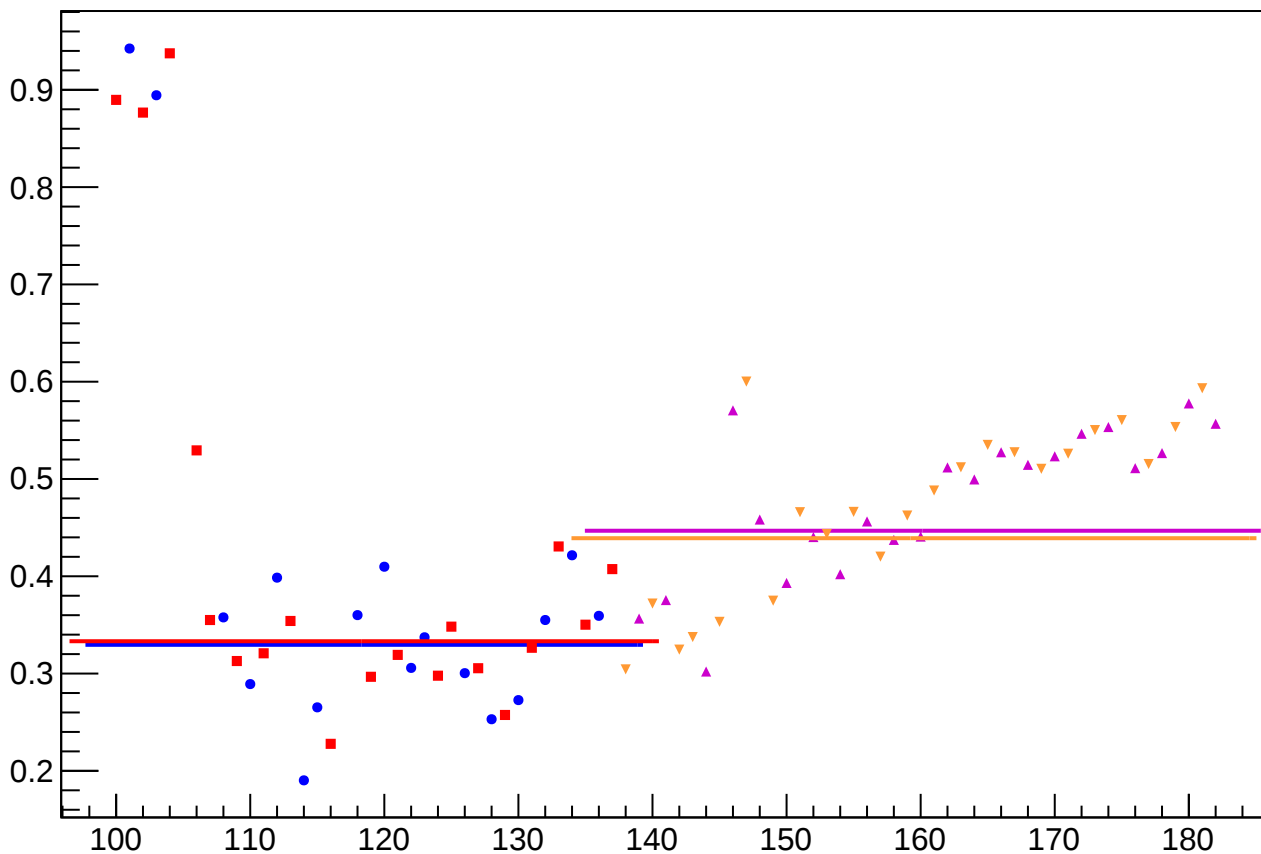
Right: 144.556 $\pm$ 0.000 χ^2 /NDF: 7035324027.3/35

In: 145.686 $\pm$ 0.000 χ^2 /NDF: 3923871515.0/38

Out: 146.397 $\pm$ 0.000 χ^2 /NDF: 4278498357.6/41

All: 146.048 $\pm$ 0.000 χ^2 /NDF: 8236252010.9

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.330+/-0.000 χ^2/NDF : 1270354.0/16

Left Out: 0.439+/-0.000 χ^2/NDF :1335744.7/22

Right Out: 0.333+/-0.000 χ^2/NDF : 1179001.1/18

Left In: 0.447+/-0.000 χ^2/NDF :1075445.0/21

Left: 0.443+/-0.000 χ^2/NDF : 2416011.3/44

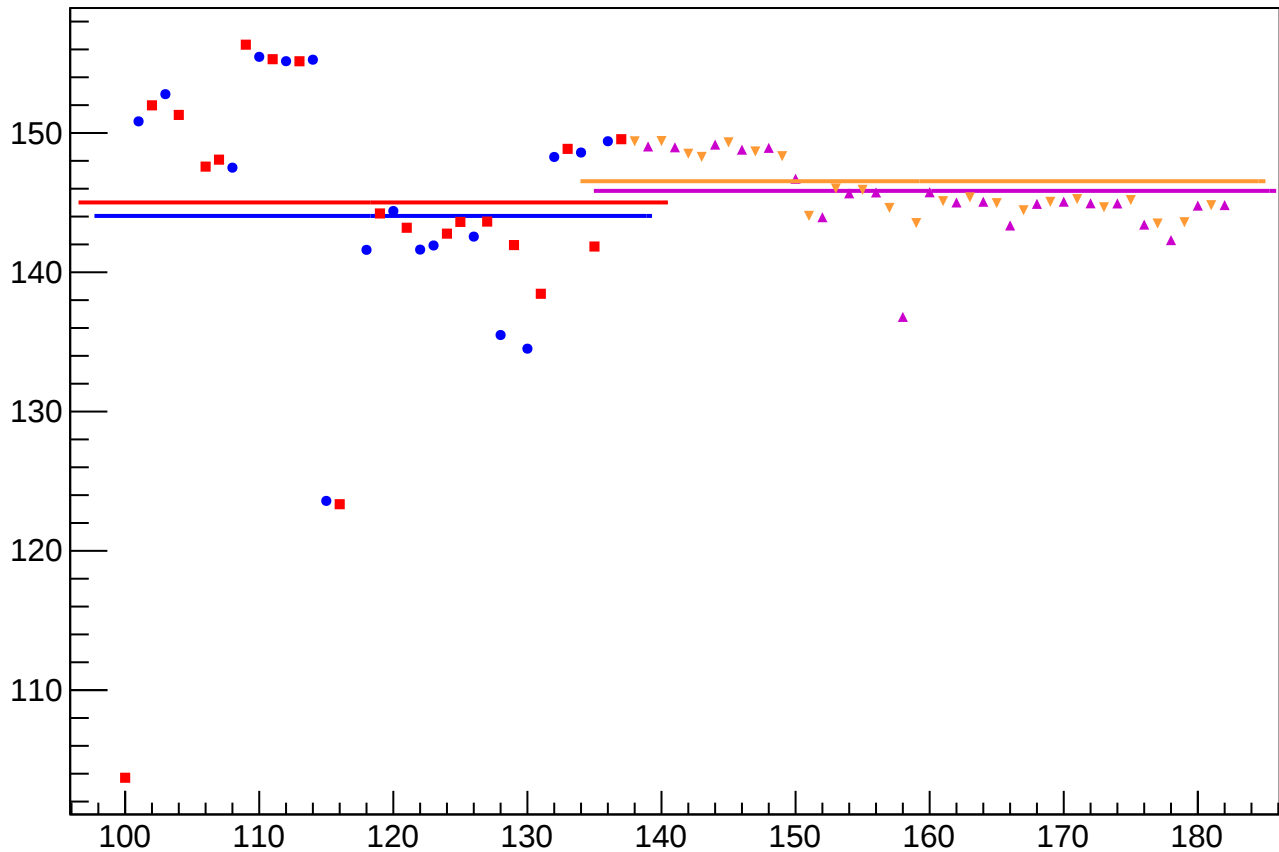
Right: 0.331+/-0.000 χ^2/NDF : 2450053.6/35

In: 0.401+/-0.000 χ^2/NDF :3203987.6/38

Out: 0.398+/-0.000 χ^2/NDF :3239296.1/41

All: 0.400+/-0.000 χ^2/NDF : 6444431.3/80

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.046 $\pm$ 0.000 χ^2 /NDF: 3279467915.9/16

Left Out: 146.538 $\pm$ 0.000 χ^2 /NDF: 389599869.1/22

Right Out: 145.013 $\pm$ 0.000 χ^2 /NDF: 3930693089.2/18

Left In: 145.845 $\pm$ 0.000 χ^2 /NDF: 689298981.0/21

Left: 146.199 $\pm$ 0.000 χ^2 /NDF: 1098560581.7/44

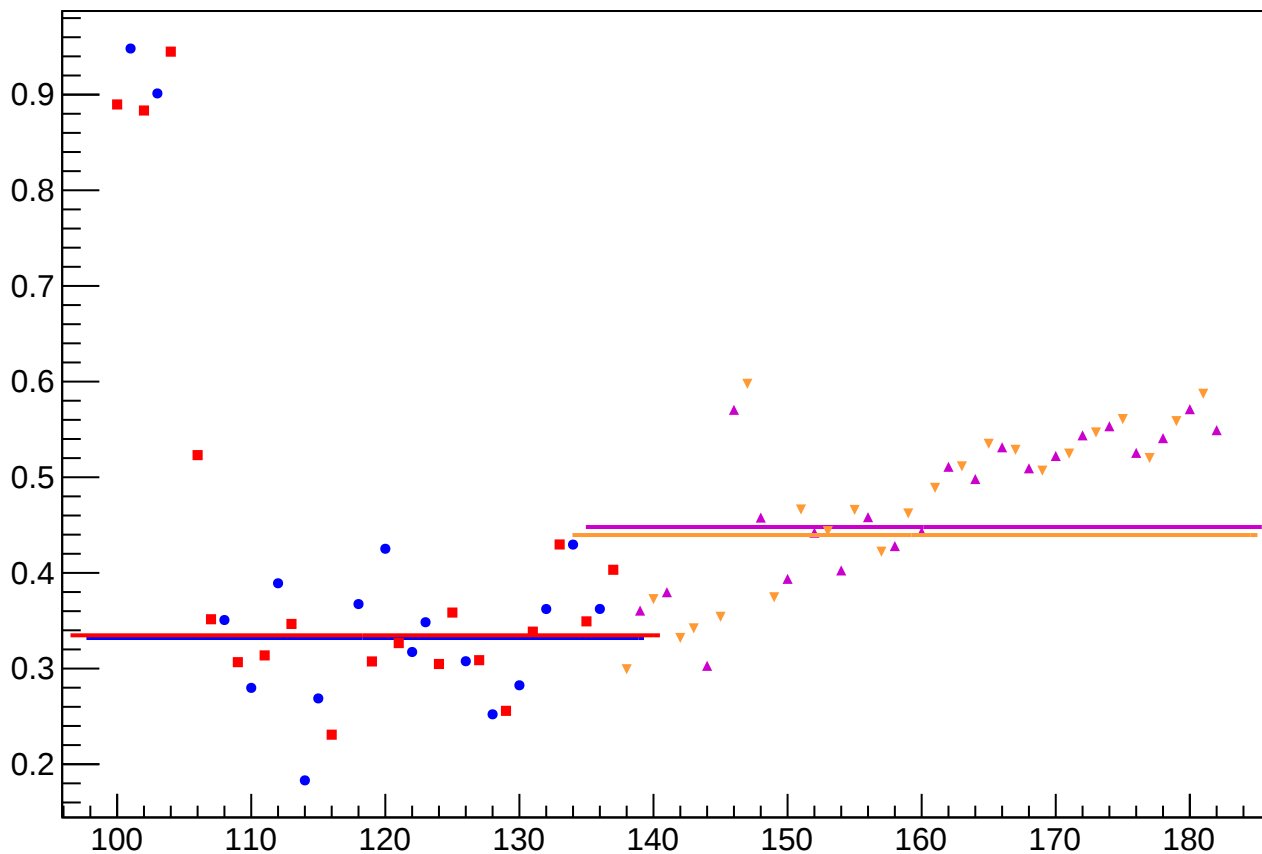
Right: 144.538 $\pm$ 0.000 χ^2 /NDF: 7234057528.4/35

In: 145.151 $\pm$ 0.000 χ^2 /NDF: 4068461940.2/38

Out: 145.953 $\pm$ 0.000 χ^2 /NDF: 4394846967.6/41

All: 145.560 $\pm$ 0.000 χ^2 /NDF: 8506067744.7

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.000 χ^2 /NDF: 1287882.2/16

Left Out: 0.440 $\pm$ 0.000 χ^2 /NDF:1325782.0/22

Right Out: 0.335 $\pm$ 0.000 χ^2 /NDF: 1168458.2/18

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1051226.8/21

Left: 0.444 $\pm$ 0.000 χ^2 /NDF: 2382764.0/44

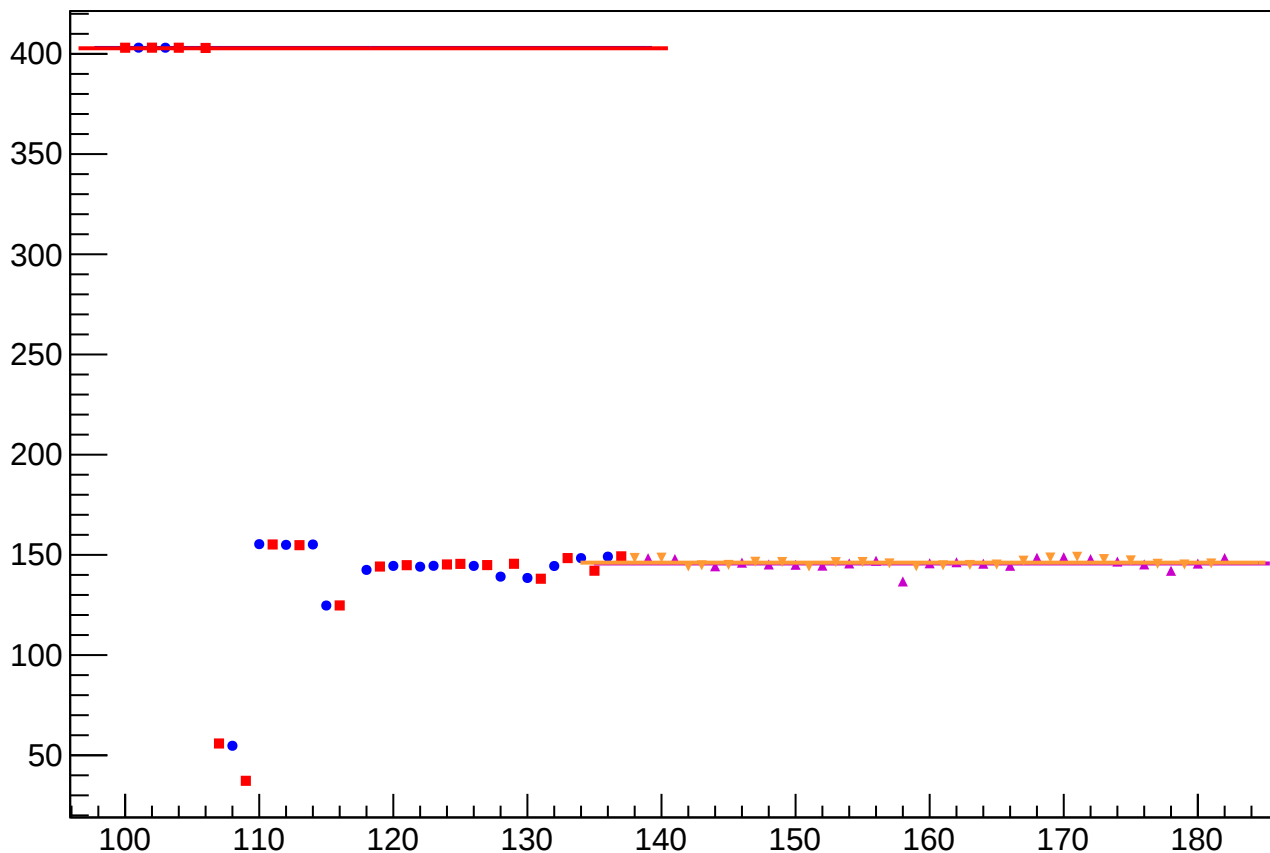
Right: 0.333 $\pm$ 0.000 χ^2 /NDF: 2456747.1/35

In: 0.403 $\pm$ 0.000 χ^2 /NDF:3168926.6/38

Out: 0.399 $\pm$ 0.000 χ^2 /NDF:3198702.4/41

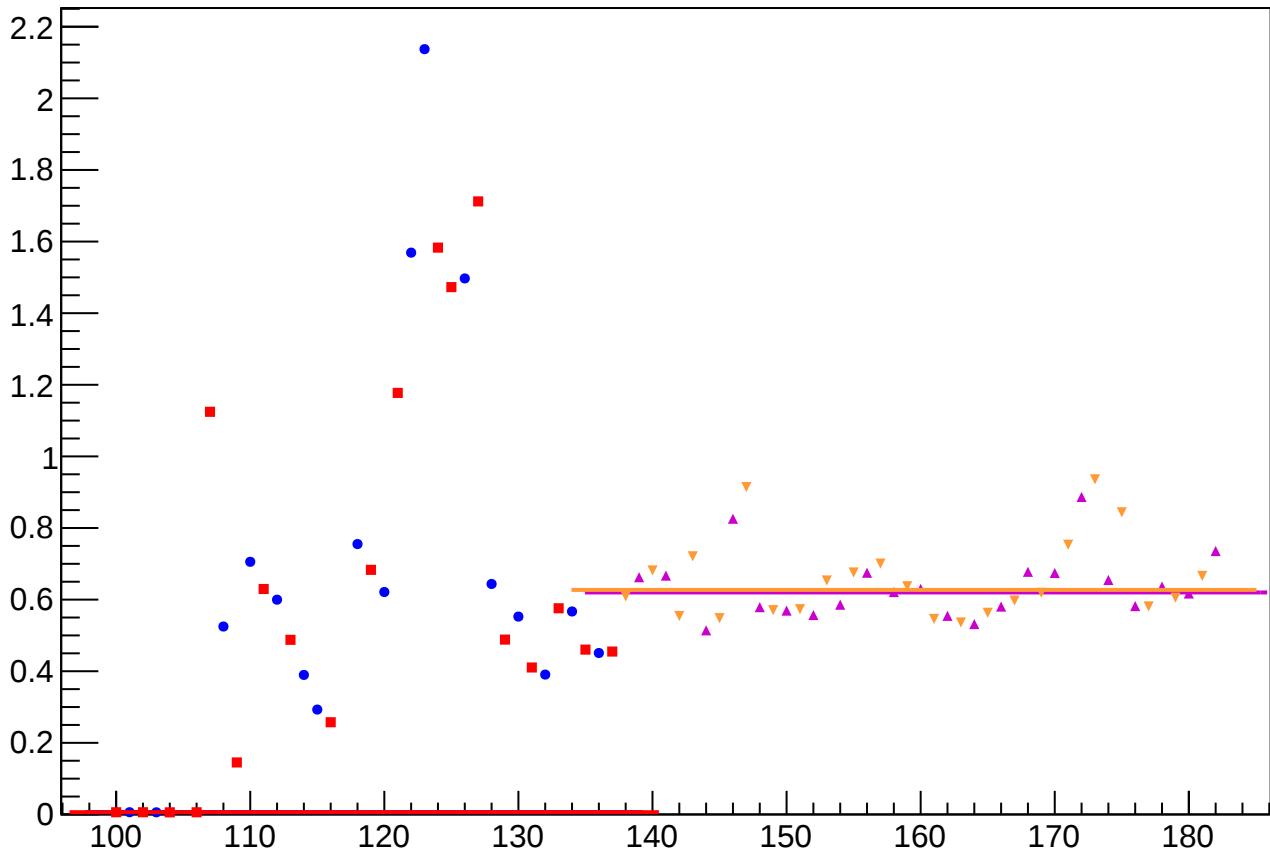
All: 0.401 $\pm$ 0.000 χ^2 /NDF: 6369590.4/80

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1097981079296.6/16	Left: 145.916+/-0.000	χ^2/NDF : 281899437.7/44
Left Out: 146.123+/-0.000	χ^2/NDF : 77084309.8/22	Right: 402.873+/-0.000	χ^2/NDF : 4204637713016.5
Right Out: 402.798+/-0.000	χ^2/NDF : 3106239706226.1/18	In: 402.670+/-0.000	χ^2/NDF : 3396236056660.0/30
Left In: 145.712+/-0.000	χ^2/NDF : 201900644.6/21	Out: 402.550+/-0.000	χ^2/NDF : 5356782510829.4/4
		All: 402.606+/-0.000	χ^2/NDF : 87532595225.0

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9127939.0/16

Left Out: 0.627 $\pm$ 0.000 χ^2 /NDF:565109.2/22

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 9171738.5/18

Left In: 0.620 $\pm$ 0.000 χ^2 /NDF:388252.8/21

Left: 0.624 $\pm$ 0.000 χ^2 /NDF: 955113.9/44

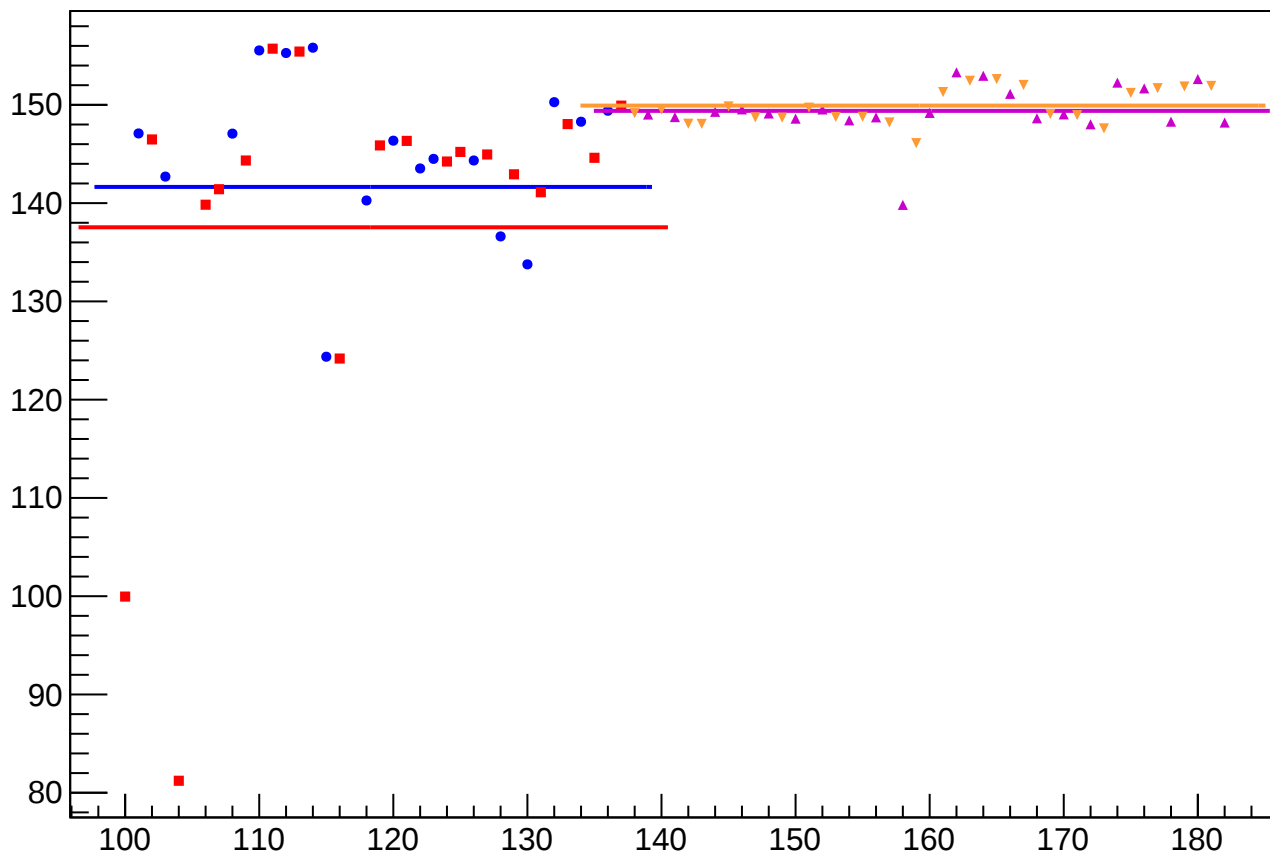
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 18299681.6/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:35672698.4/38

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:36067731.9/41

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 71740722.3/80

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.649 $\pm$ 0.000 χ^2 /NDF: 978960977.0/16

Left Out: 149.926 $\pm$ 0.000 χ^2 /NDF: 161074884.6/22

Right Out: 137.540 $\pm$ 0.000 χ^2 /NDF: 1319926808.9/18

Left In: 149.388 $\pm$ 0.000 χ^2 /NDF: 434260368.3/21

Left: 149.665 $\pm$ 0.000 χ^2 /NDF: 602347263.1/44

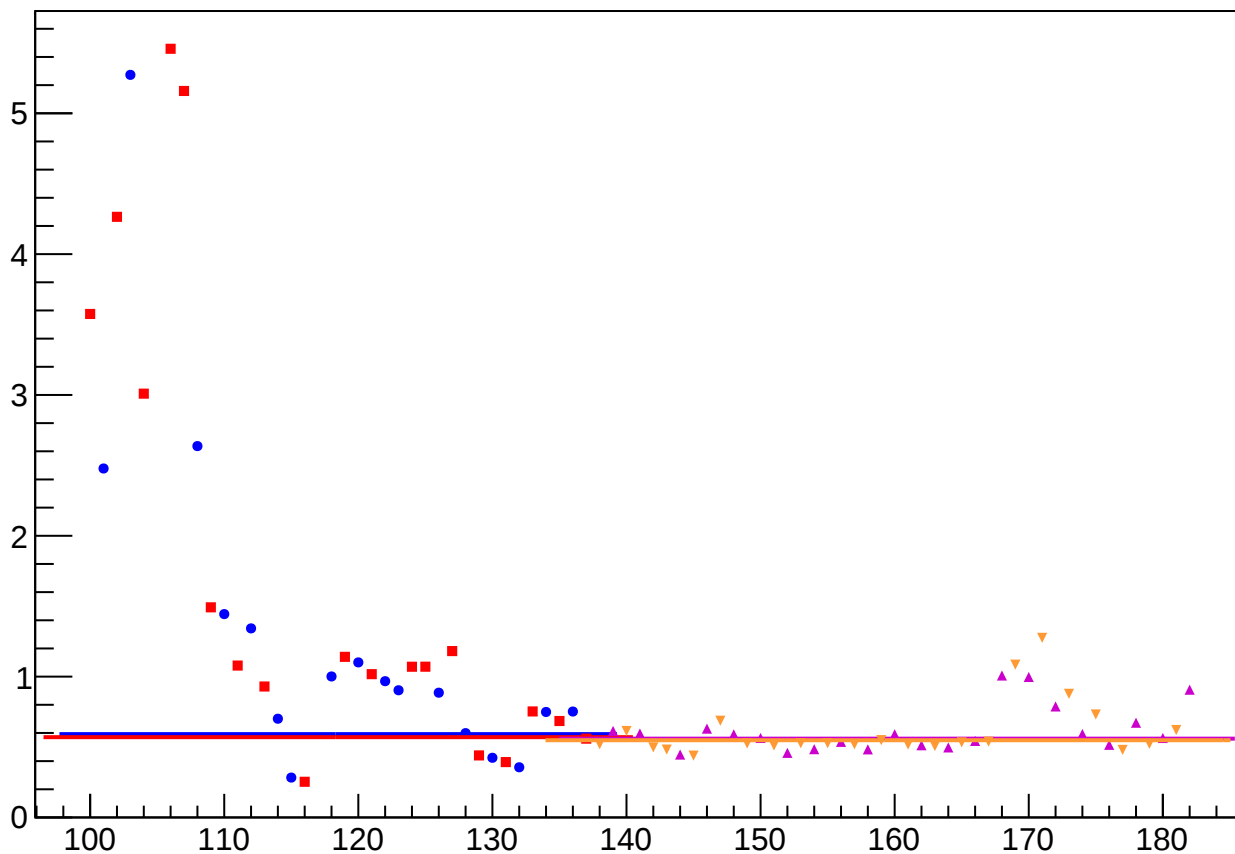
Right: 139.554 $\pm$ 0.000 χ^2 /NDF: 2385756401.6/35

In: 148.021 $\pm$ 0.000 χ^2 /NDF: 1911161606.7/38

Out: 147.770 $\pm$ 0.000 χ^2 /NDF: 2811298692.3/41

All: 147.892 $\pm$ 0.000 χ^2 /NDF: 4724303140.0

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3518726.1/16

Left Out: 0.548 $\pm$ 0.000 χ^2 /NDF:1367671.3/22

Right Out: 0.570 $\pm$ 0.000 χ^2 /NDF: 4645113.2/18

Left In: 0.560 $\pm$ 0.000 χ^2 /NDF:1206137.5/21

Left: 0.554 $\pm$ 0.000 χ^2 /NDF: 2579797.6/44

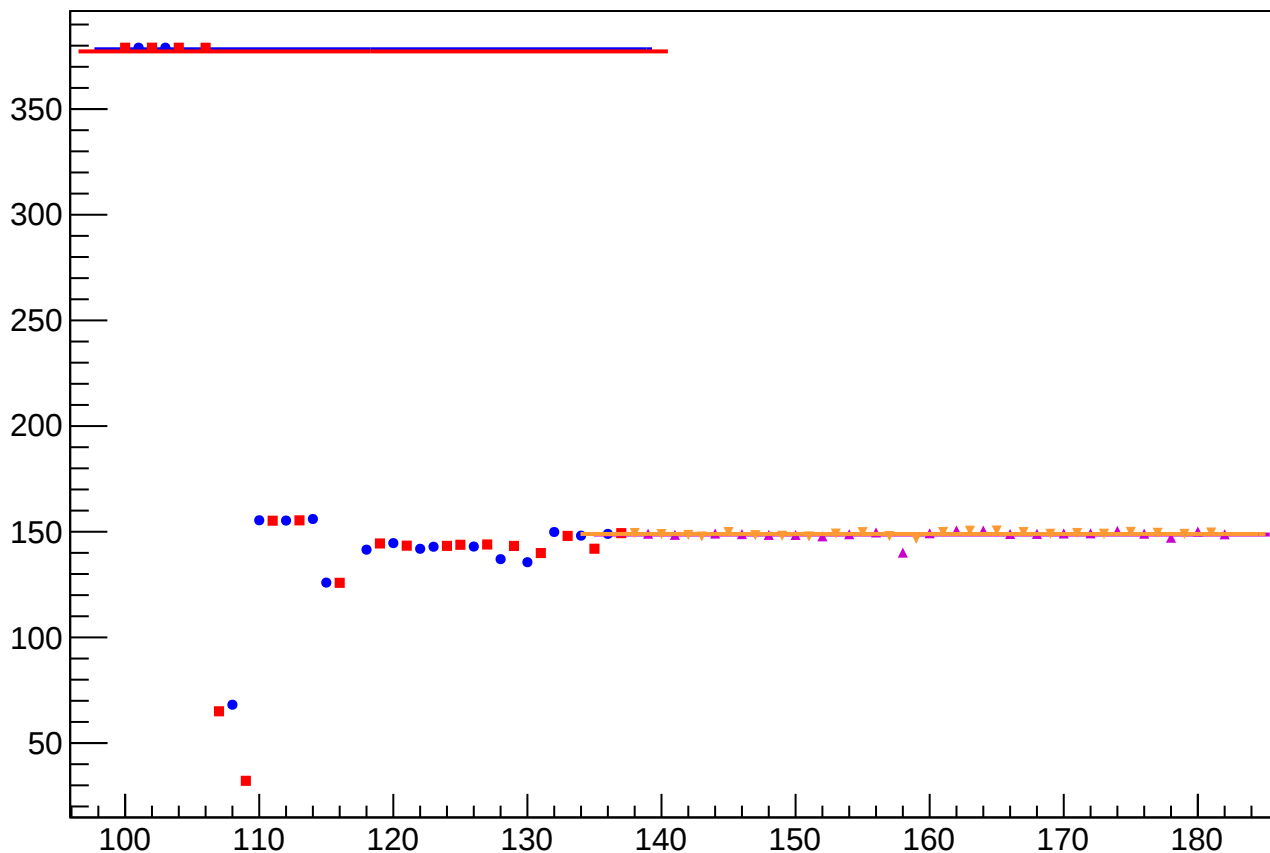
Right: 0.581 $\pm$ 0.000 χ^2 /NDF: 8168630.3/35

In: 0.565 $\pm$ 0.000 χ^2 /NDF:4742008.6/38

Out: 0.552 $\pm$ 0.000 χ^2 /NDF:6020922.7/41

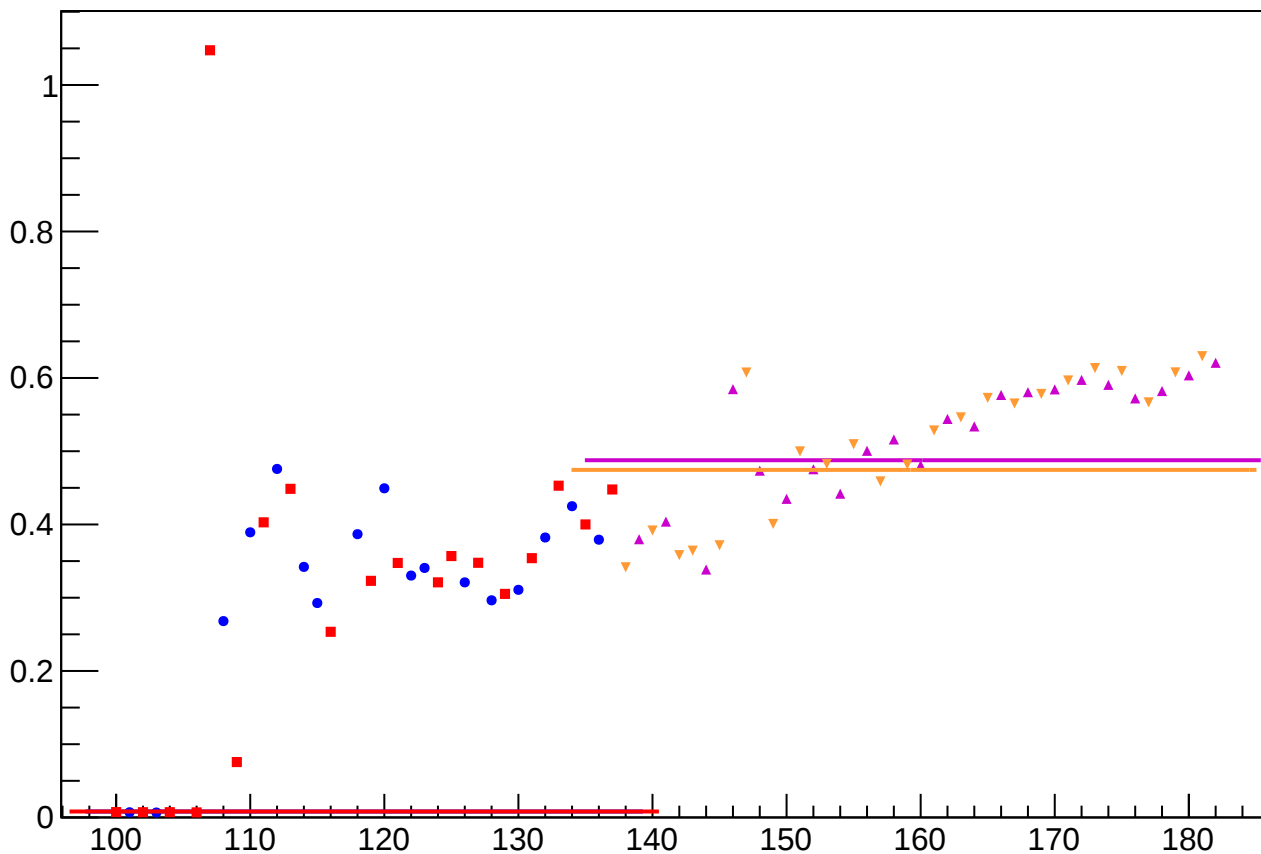
All: 0.559 $\pm$ 0.000 χ^2 /NDF: 10772889.5/80

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.288+/-0.000	χ^2/NDF : 2492505563660.4/16	Left: 148.811+/-0.000	χ^2/NDF : 320131975.4/44
Left Out: 148.944+/-0.000	χ^2/NDF : 64696148.1/22	Right: 377.756+/-0.000	χ^2/NDF : 10776659688303.0
Right Out: 377.290+/-0.000	χ^2/NDF : 8277094761031.6/18	In: 377.124+/-0.000	χ^2/NDF : 6049530305695.0/30
Left In: 148.670+/-0.000	χ^2/NDF : 252794061.7/21	Out: 376.210+/-0.000	χ^2/NDF : 12022149192056.5
		All: 376.637+/-0.000	χ^2/NDF : 180776416029.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 9842025.8/16

Left Out: 0.475+/-0.000 χ^2/NDF :1338744.0/22

Right Out: 0.008+/-0.000 χ^2/NDF : 9491450.8/18

Left In: 0.488+/-0.000 χ^2/NDF :1027368.3/21

Left: 0.481+/-0.000 χ^2/NDF : 2378245.5/44

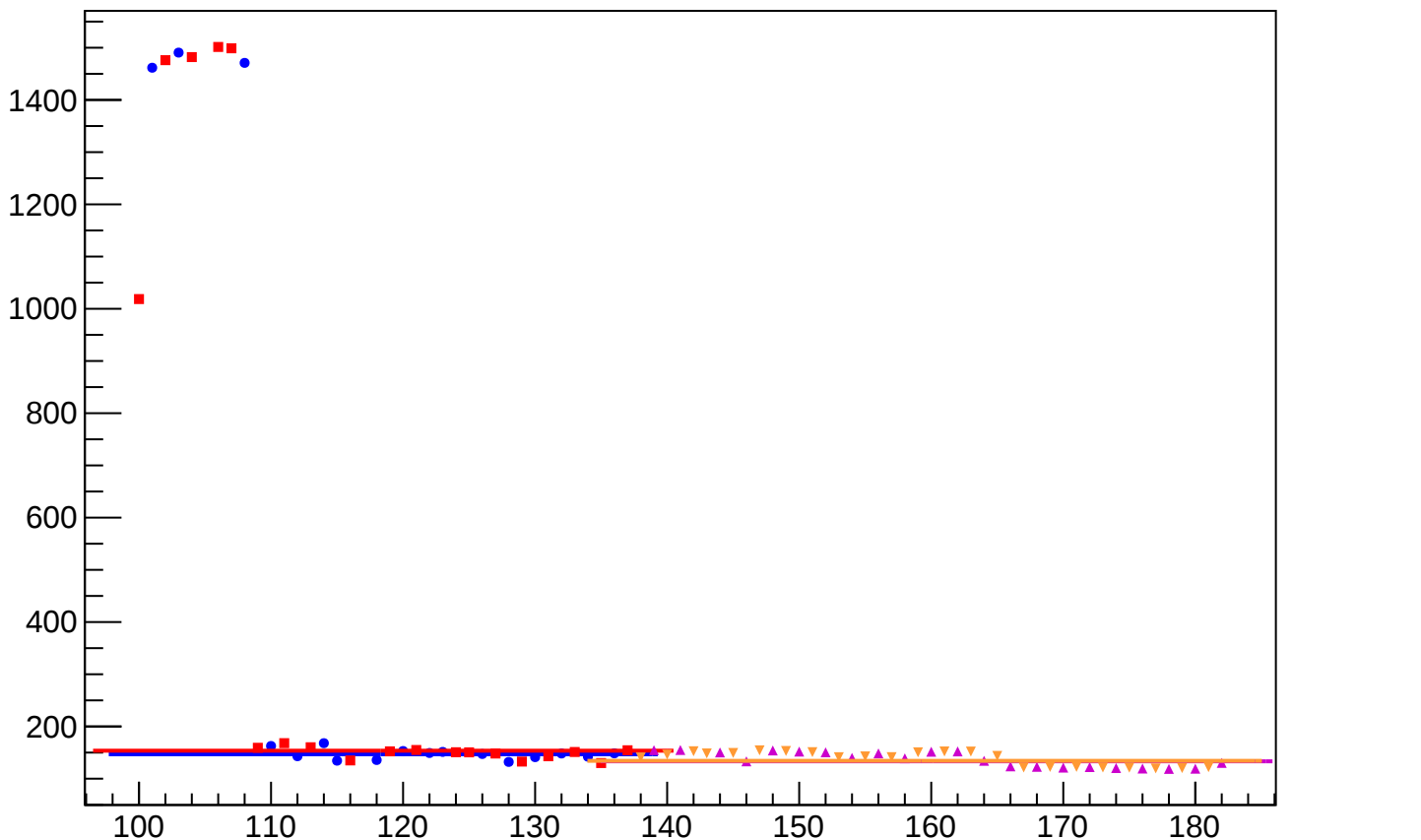
Right: 0.008+/-0.000 χ^2/NDF : 19333484.2/35

In: 0.011+/-0.000 χ^2/NDF :41900507.8/38

Out: 0.010+/-0.000 χ^2/NDF :42075369.9/41

All: 0.010+/-0.000 χ^2/NDF : 83976449.2/80

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.782 $\pm$ 0.000 χ^2 /NDF: 24345208780.4/16

Left Out: 134.195 $\pm$ 0.000 χ^2 /NDF: 4228279560.3/22

Right Out: 153.596 $\pm$ 0.000 χ^2 /NDF: 33791266543.9/18

Left In: 133.262 $\pm$ 0.000 χ^2 /NDF: 4290537891.6/21

Left: 133.736 $\pm$ 0.000 χ^2 /NDF: 8528775619.9/44

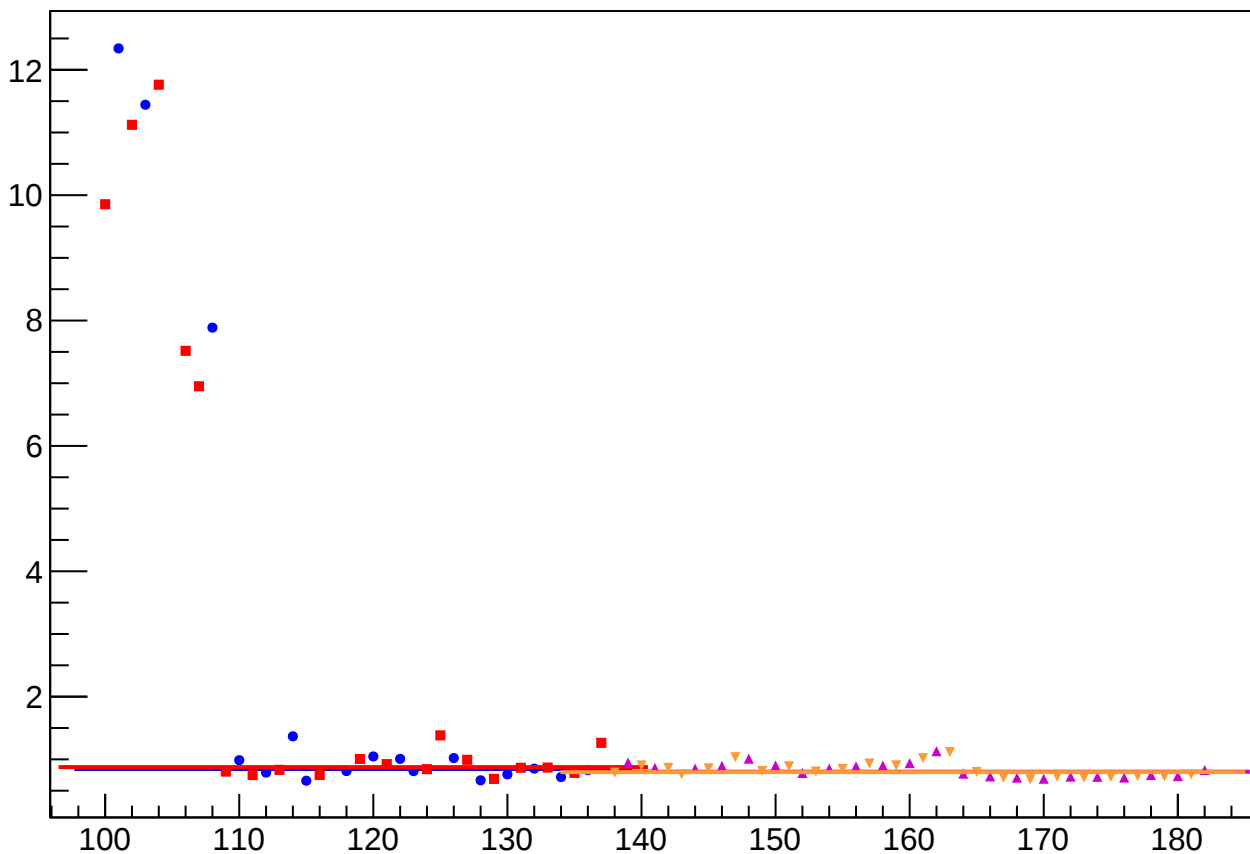
Right: 150.182 $\pm$ 0.000 χ^2 /NDF: 58259873830.0/35

In: 135.848 $\pm$ 0.000 χ^2 /NDF: 29423125282.2/38

Out: 137.802 $\pm$ 0.000 χ^2 /NDF: 39645289696.1/41

All: 136.837 $\pm$ 0.000 χ^2 /NDF: 69122208360.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.846+/-0.000 χ^2/NDF : 2658649.7/16

Left Out: 0.796+/-0.000 χ^2/NDF : 482491.0/22

Right Out: 0.876+/-0.000 χ^2/NDF : 2826804.8/18

Left In: 0.803+/-0.000 χ^2/NDF : 460850.1/21

Left: 0.799+/-0.000 χ^2/NDF : 944400.7/44

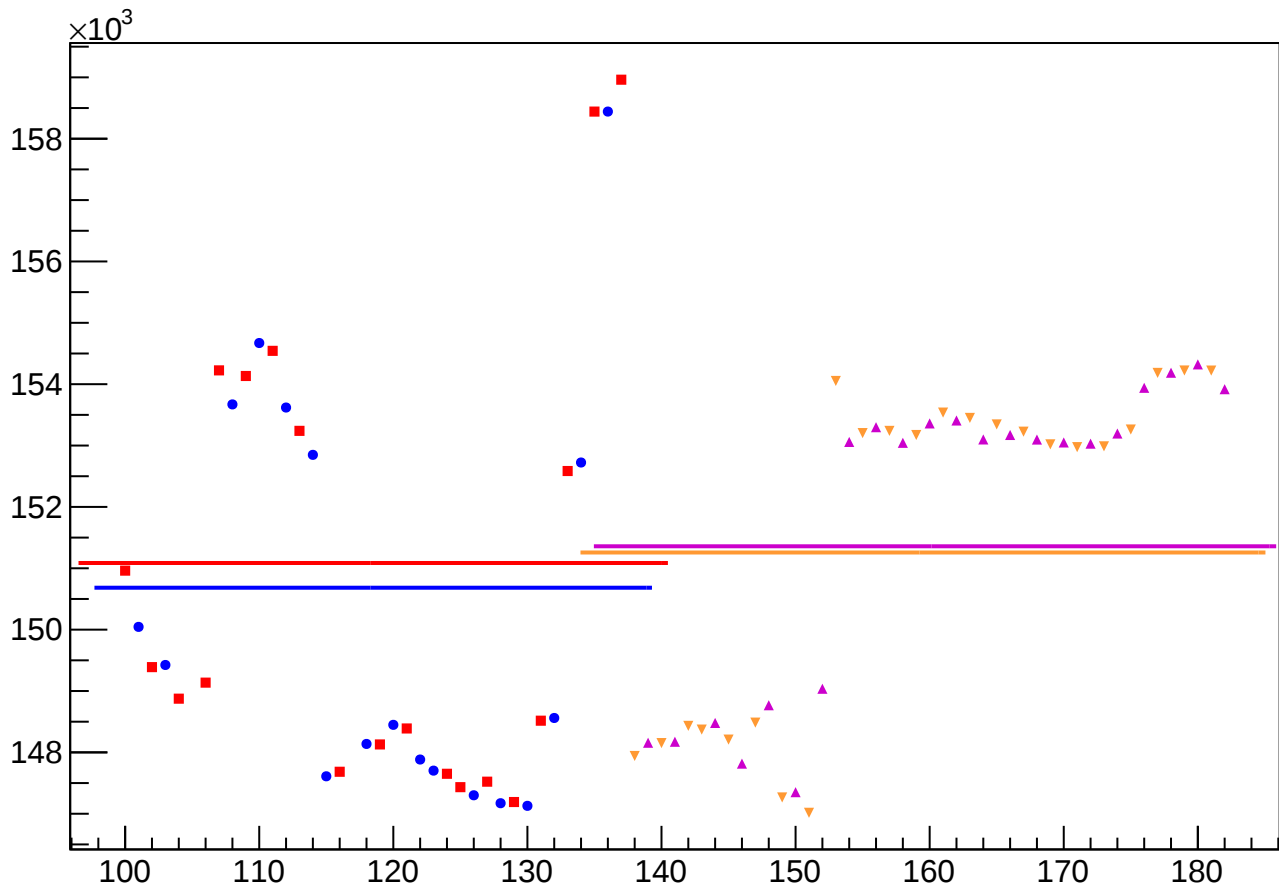
Right: 0.861+/-0.000 χ^2/NDF : 5490366.4/35

In: 0.811+/-0.000 χ^2/NDF : 3135369.9/38

Out: 0.811+/-0.000 χ^2/NDF : 3364754.8/41

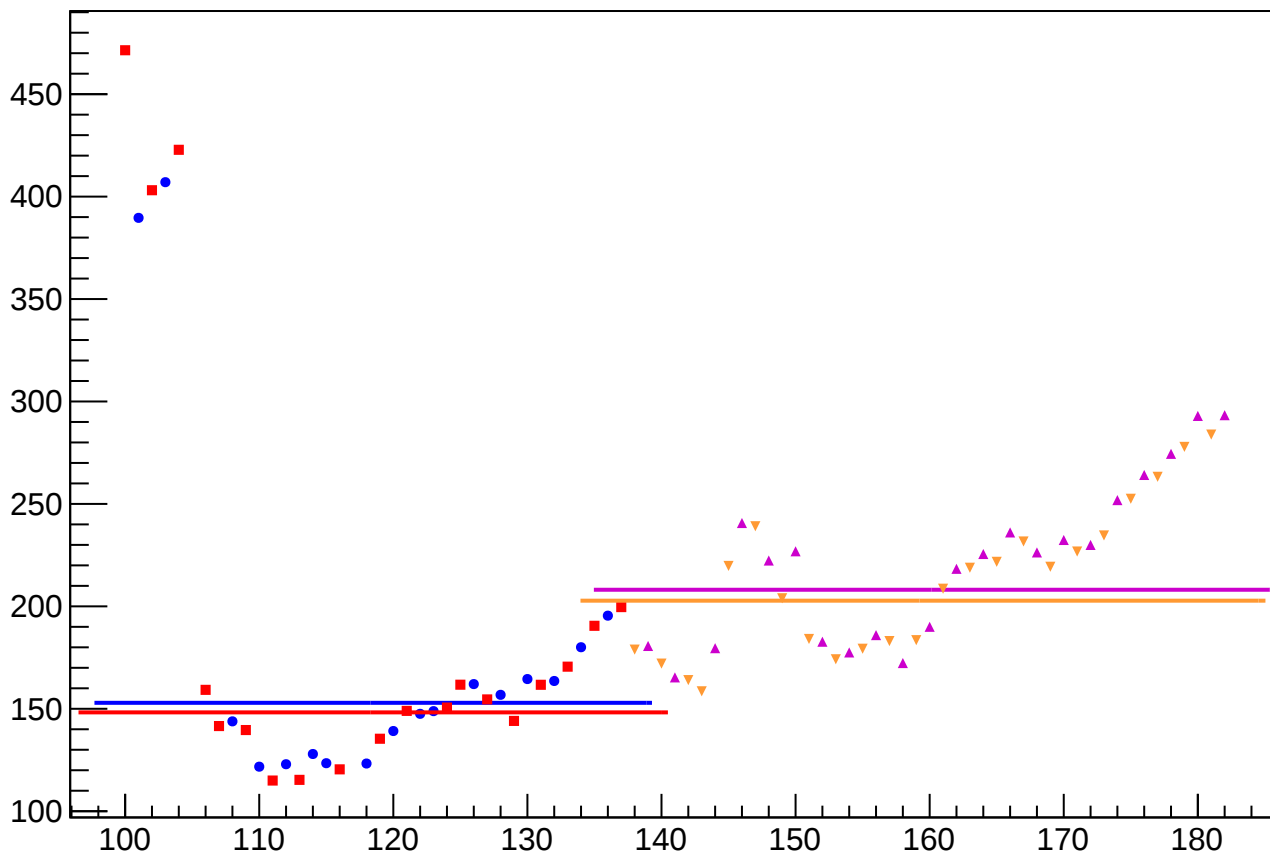
All: 0.811+/-0.000 χ^2/NDF : 6500125.1/80

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150683.304 $\pm$ 0.063 χ^2 /NDF: 3299311261.5/16
 Left Out: 151257.277 $\pm$ 0.049 χ^2 /NDF: 3031826938.9/22
 Right Out: 151086.261 $\pm$ 0.060 χ^2 /NDF: 3297509595.7/18
 Left In: 151358.467 $\pm$ 0.051 χ^2 /NDF: 2342195661.8/21
 Left: 151305.933 $\pm$ 0.036 χ^2 /NDF: 5376034567.5/16
 Right: 150895.868 $\pm$ 0.043 χ^2 /NDF: 6618337097.0/16
 In: 151089.121 $\pm$ 0.040 χ^2 /NDF: 5710333602.1/38
 Out: 151187.677 $\pm$ 0.038 χ^2 /NDF: 6334200620.6/4
 All: 151140.620 $\pm$ 0.028 χ^2 /NDF: 120477300

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.916 $\pm$ 0.045 χ^2 /NDF: 1154367.4/16

Left Out: 202.771 $\pm$ 0.035 χ^2 /NDF: 878662.0/22

Right Out: 148.245 $\pm$ 0.042 χ^2 /NDF: 1189017.0/18

Left In: 208.102 $\pm$ 0.036 χ^2 /NDF: 955720.9/21

Left: 205.335 $\pm$ 0.025 χ^2 /NDF: 1845551.7/44

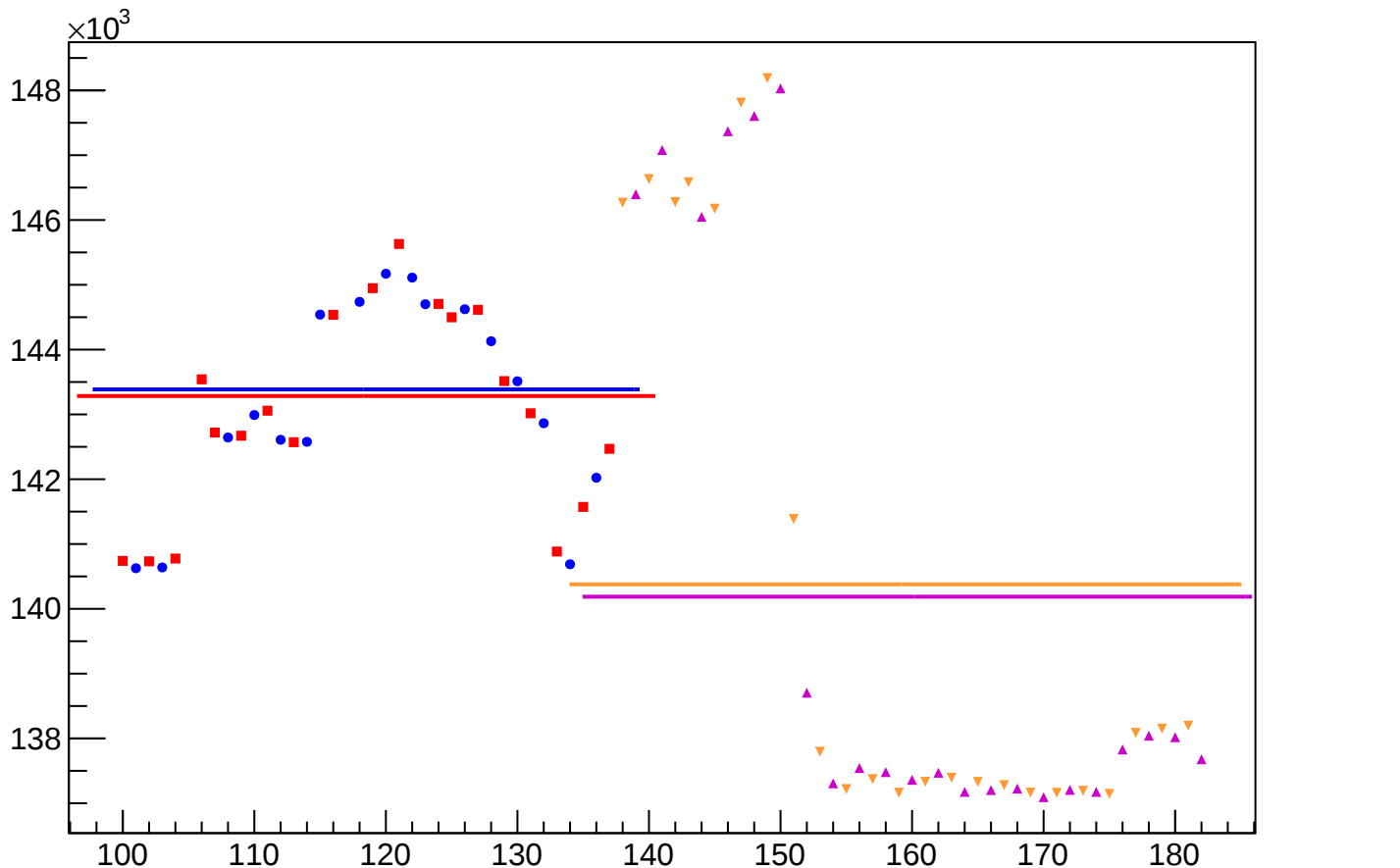
Right: 150.452 $\pm$ 0.031 χ^2 /NDF: 2349165.6/35

In: 186.086 $\pm$ 0.028 χ^2 /NDF: 3029760.6/38

Out: 180.580 $\pm$ 0.027 χ^2 /NDF: 3056600.2/41

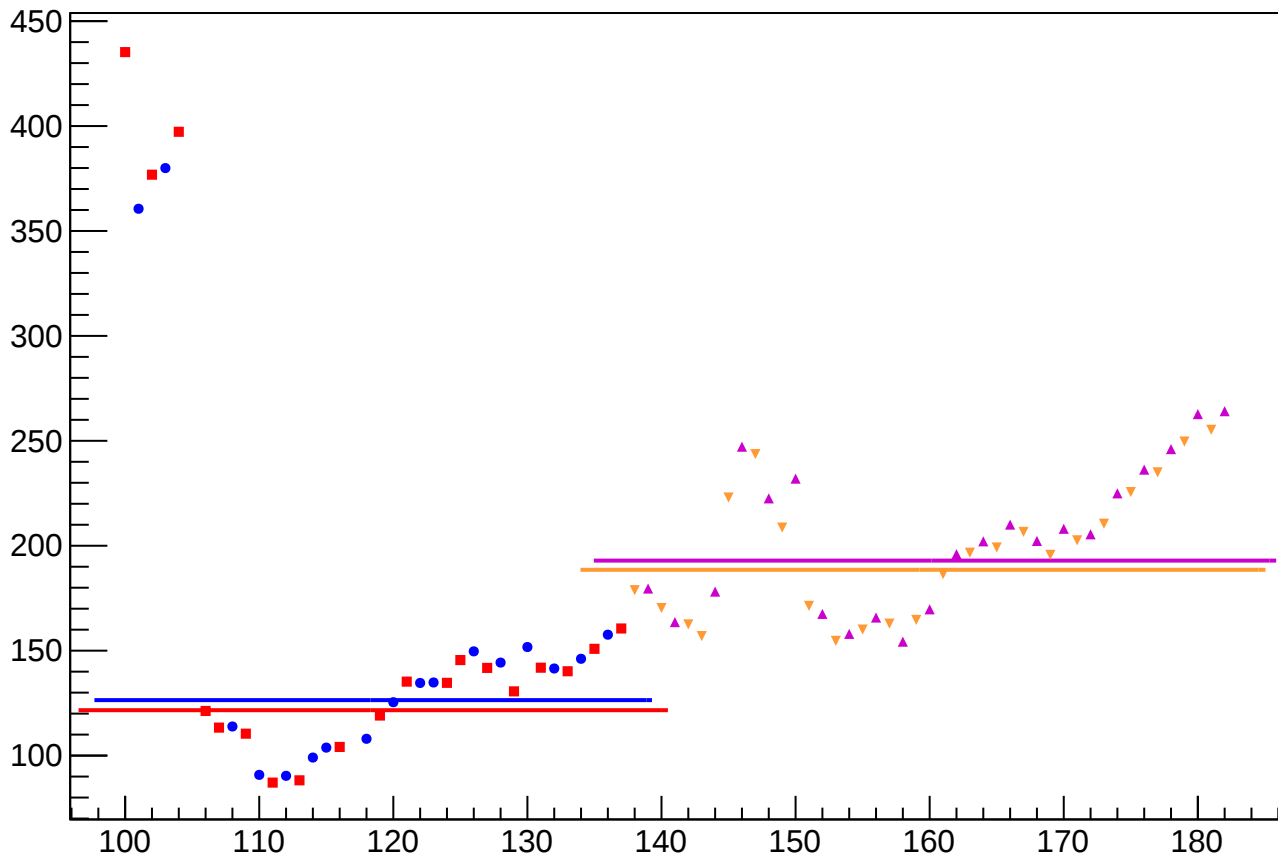
All: 183.209 $\pm$ 0.019 χ^2 /NDF: 6106313.1/80

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143385.822 $\pm$ 0.053	χ^2 /NDF: 520518329.3/16	Left: 140286.077 $\pm$ 0.033	χ^2 /NDF: 16511353104.6
Left Out: 140377.983 $\pm$ 0.046	χ^2 /NDF: 8495522966.3/22	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: 141623.414 $\pm$ 0.035	χ^2 /NDF: 10550587907.6/3
Left In: 140187.285 $\pm$ 0.048	χ^2 /NDF: 8007535107.6/21	Out: 141735.065 $\pm$ 0.034	χ^2 /NDF: 10970698584.4
		All: 141682.178 $\pm$ 0.024	χ^2 /NDF: 215265294

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.427 +/- 0.037 χ^2/NDF : 1442156.7/16

Left Out: 188.535 +/- 0.033 χ^2/NDF : 793390.6/22

Right Out: 121.629 +/- 0.035 χ^2/NDF : 1458546.9/18

Left In: 192.924 +/- 0.034 χ^2/NDF : 922823.6/21

Left: 190.650 +/- 0.023 χ^2/NDF : 1725002.1/44

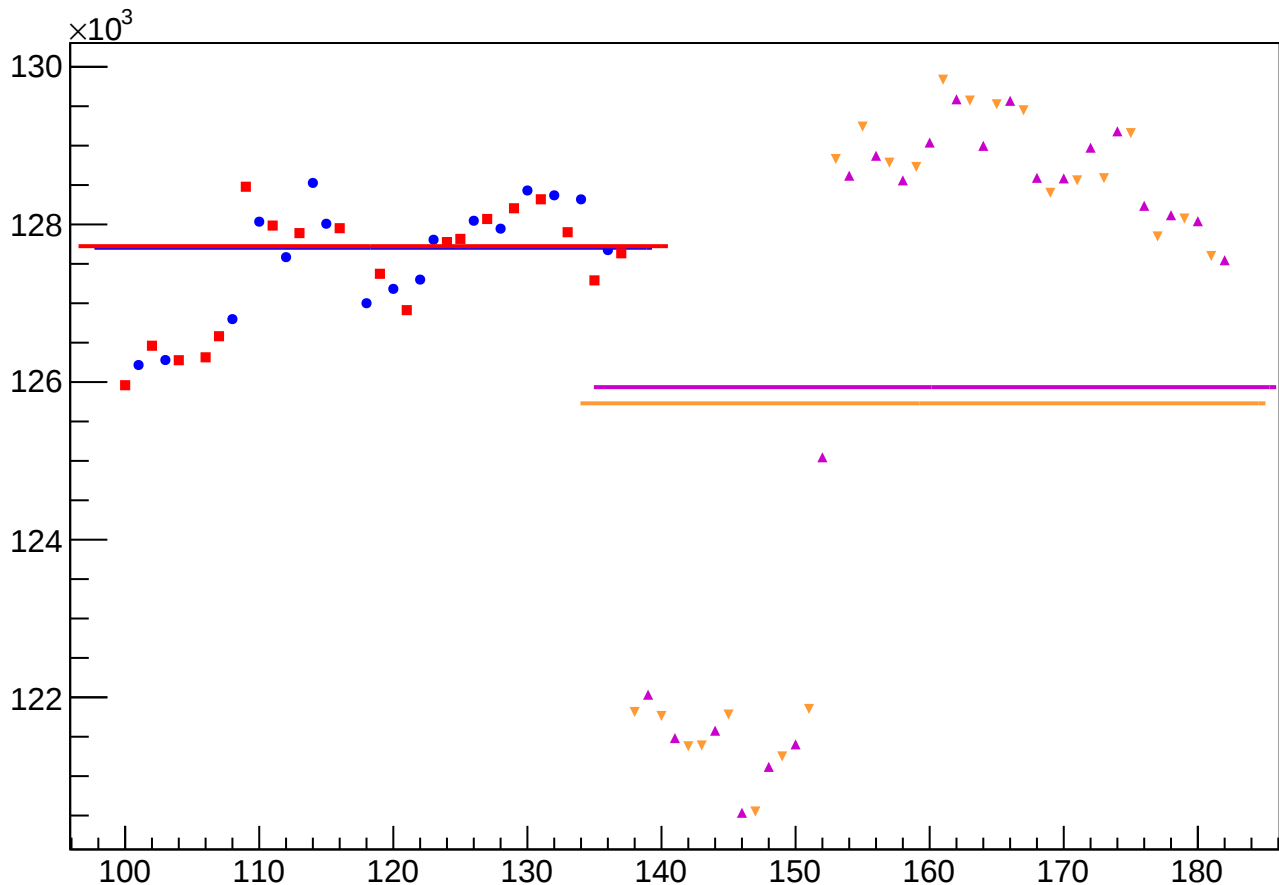
Right: 123.855 +/- 0.025 χ^2/NDF : 2909560.8/35

In: 163.067 +/- 0.025 χ^2/NDF : 4113283.6/38

Out: 157.293 +/- 0.024 χ^2/NDF : 4230540.7/41

All: 160.028 +/- 0.017 χ^2/NDF : 8371868.9/80

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127704.536 $\pm$ 0.058 χ^2 /NDF: 97614287.1/16

Left Out: 125729.971 $\pm$ 0.045 χ^2 /NDF: 6517423093.6/22

Right Out: 127724.288 $\pm$ 0.055 χ^2 /NDF: 112647022.0/18

Left In: 125935.656 $\pm$ 0.045 χ^2 /NDF: 5783590865.2/21

Left: 125832.563 $\pm$ 0.032 χ^2 /NDF: 12311474892.5

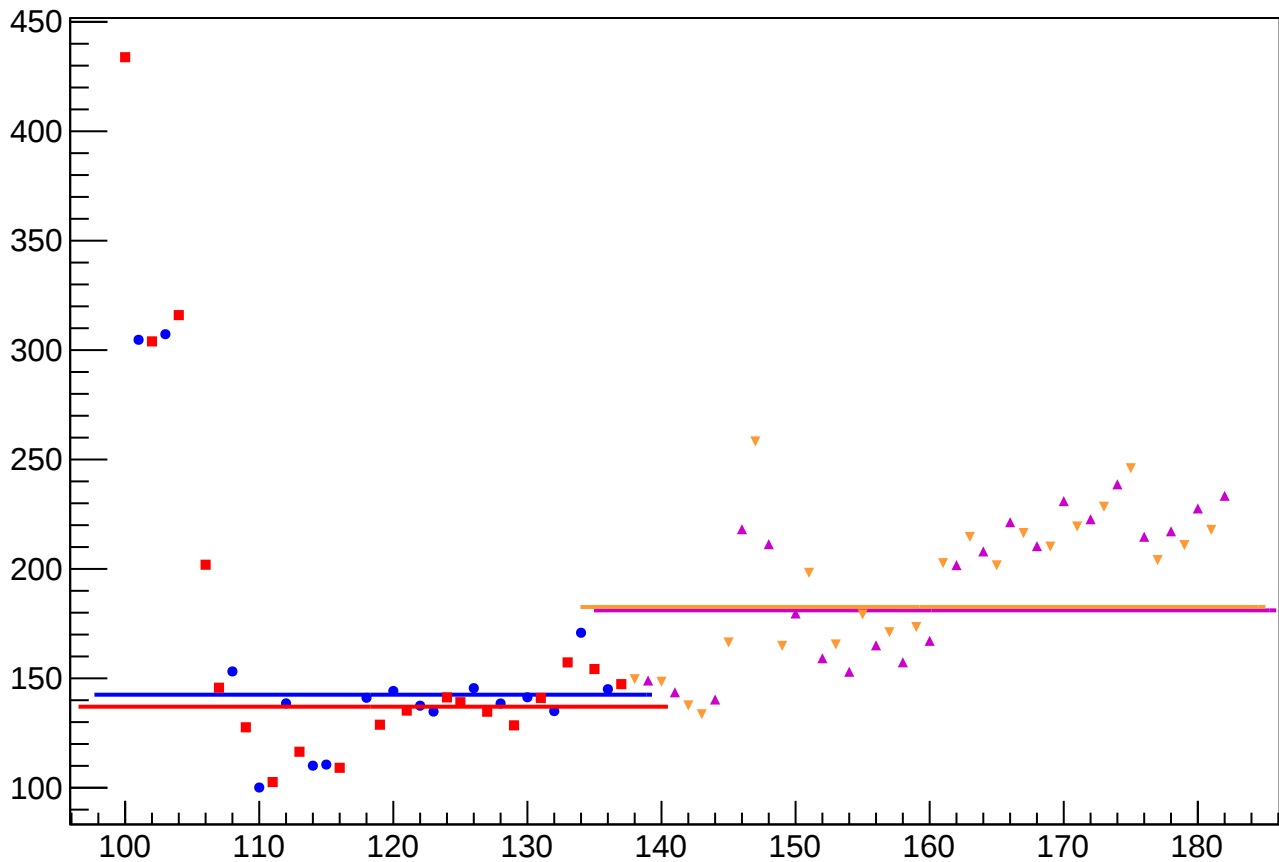
Right: 127715.047 $\pm$ 0.040 χ^2 /NDF: 210322651.4/3

In: 126598.246 $\pm$ 0.036 χ^2 /NDF: 6459412122.7/38

Out: 126535.699 $\pm$ 0.035 χ^2 /NDF: 7426661204.1/4

All: 126566.143 $\pm$ 0.025 χ^2 /NDF: 138876573

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.524 $\pm$ 0.041 χ^2 /NDF: 836220.9/16

Left Out: 182.606 $\pm$ 0.032 χ^2 /NDF:1036415.7/22

Right Out: 137.050 $\pm$ 0.039 χ^2 /NDF: 956482.5/18

Left In: 181.065 $\pm$ 0.032 χ^2 /NDF:1074642.9/21

Left: 181.838 $\pm$ 0.022 χ^2 /NDF: 2112232.2/44

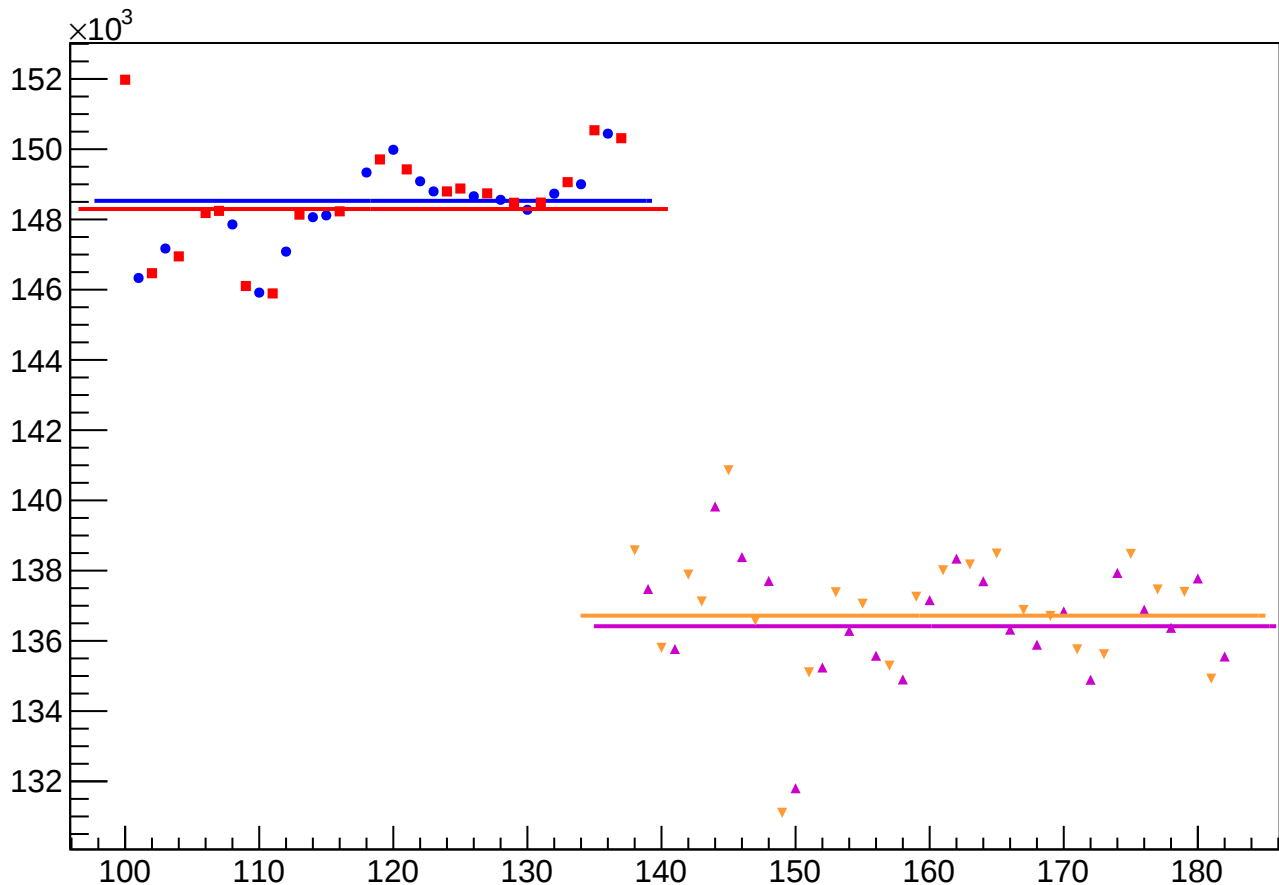
Right: 139.611 $\pm$ 0.028 χ^2 /NDF: 1802128.3/35

In: 166.629 $\pm$ 0.025 χ^2 /NDF:2459853.4/38

Out: 164.201 $\pm$ 0.025 χ^2 /NDF:2824227.3/41

All: 165.382 $\pm$ 0.018 χ^2 /NDF: 5288854.1/80

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148529.735 $\pm$ 0.082 χ^2 /NDF: 209963911.3/16

Left Out: 136718.161 $\pm$ 0.066 χ^2 /NDF: 899813538.5/22

Right Out: 148296.414 $\pm$ 0.076 χ^2 /NDF: 293172260.2/18

Left In: 136416.710 $\pm$ 0.066 χ^2 /NDF: 691251950.8/21

Left: 136567.609 $\pm$ 0.047 χ^2 /NDF: 1601385872.5/4

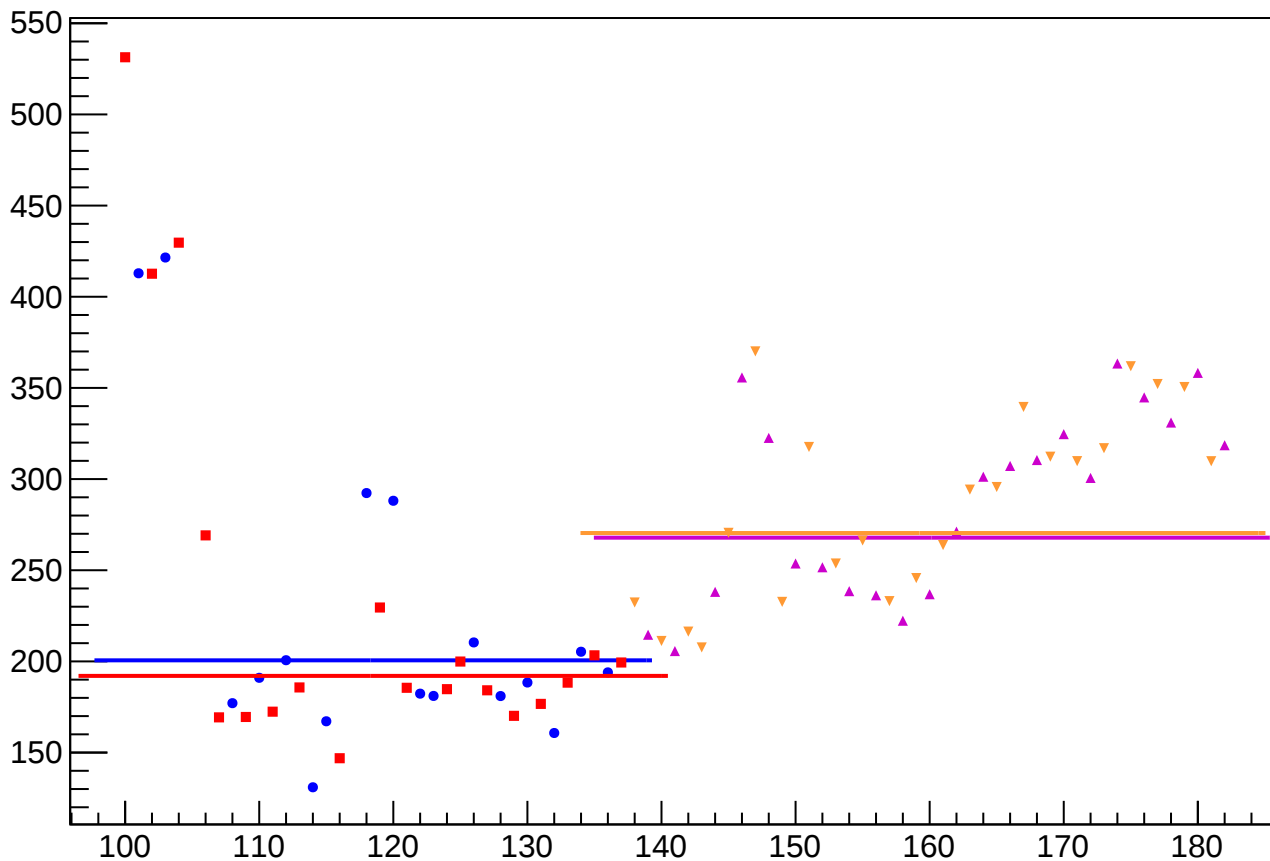
Right: 148404.511 $\pm$ 0.056 χ^2 /NDF: 507452913.3/3

In: 141193.918 $\pm$ 0.052 χ^2 /NDF: 14029817622.6/3

Out: 141690.314 $\pm$ 0.050 χ^2 /NDF: 14284188686.8

All: 141449.799 $\pm$ 0.036 χ^2 /NDF: 283615904

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.585+/-0.058 χ^2/NDF : 935452.3/16

Left Out: 270.415+/-0.047 χ^2/NDF : 1047095.3/22

Right Out: 192.054+/-0.054 χ^2/NDF : 845373.5/18

Left In: 267.864+/-0.047 χ^2/NDF : 1069149.2/21

Left: 269.141+/-0.033 χ^2/NDF : 2117722.4/44

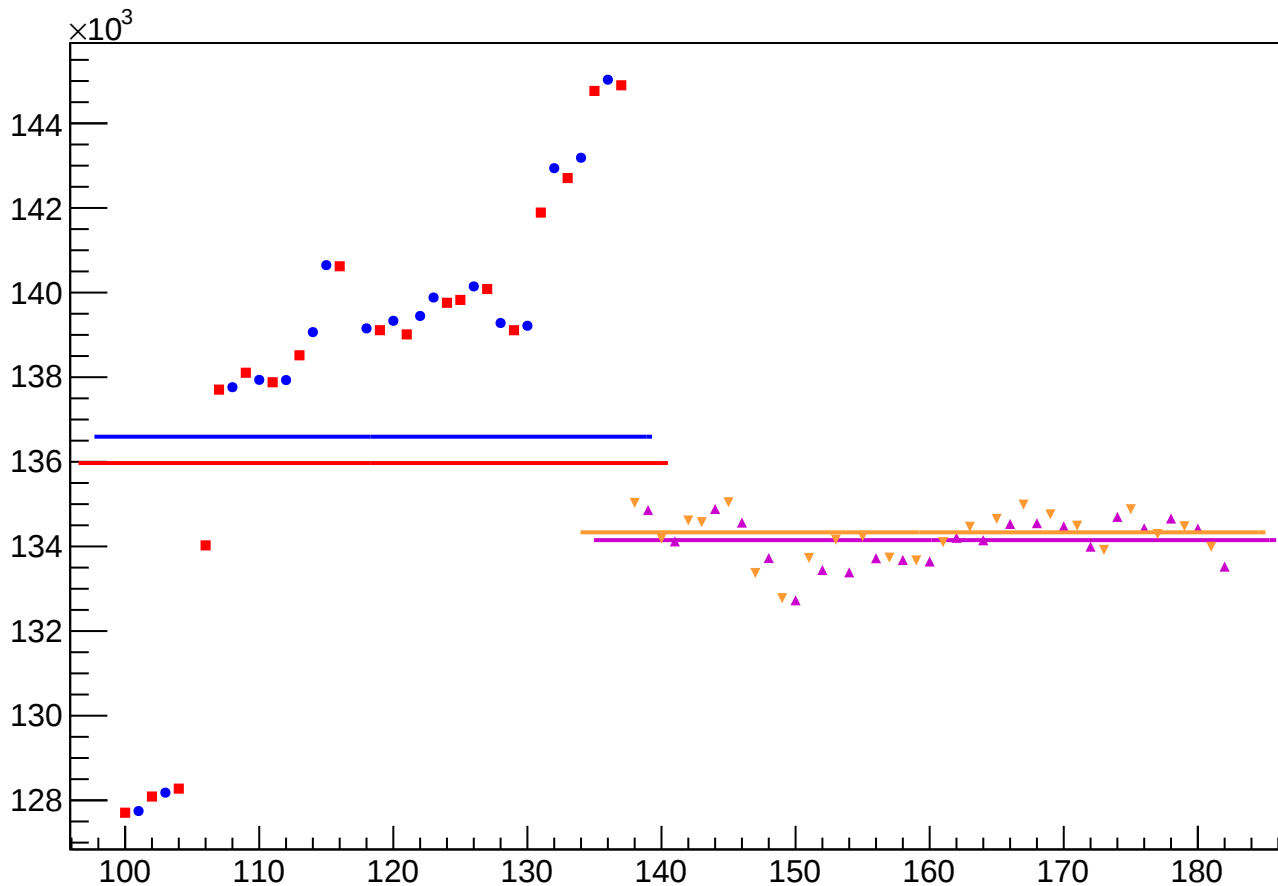
Right: 196.006+/-0.040 χ^2/NDF : 1792367.6/35

In: 241.330+/-0.037 χ^2/NDF : 2814635.1/38

Out: 236.763+/-0.035 χ^2/NDF : 3091750.2/41

All: 238.976+/-0.025 χ^2/NDF : 5914438.9/80

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136593.896 $\pm$ 0.172

χ^2 /NDF: 1493317567.5/16

Left: 134242.216 $\pm$ 0.101

χ^2 /NDF: 29733876.4/44

Right: 136301.988 $\pm$ 0.125

χ^2 /NDF: 2580296104.5/16

Left Out: 134333.794 $\pm$ 0.142

χ^2 /NDF: 14697785.4/22

Right Out: 135970.927 $\pm$ 0.183

χ^2 /NDF: 1080815746.9/18

In: 135151.082 $\pm$ 0.110

χ^2 /NDF: 1627053010.8/38

Out: 134949.406 $\pm$ 0.112

χ^2 /NDF: 1145486384.2/44

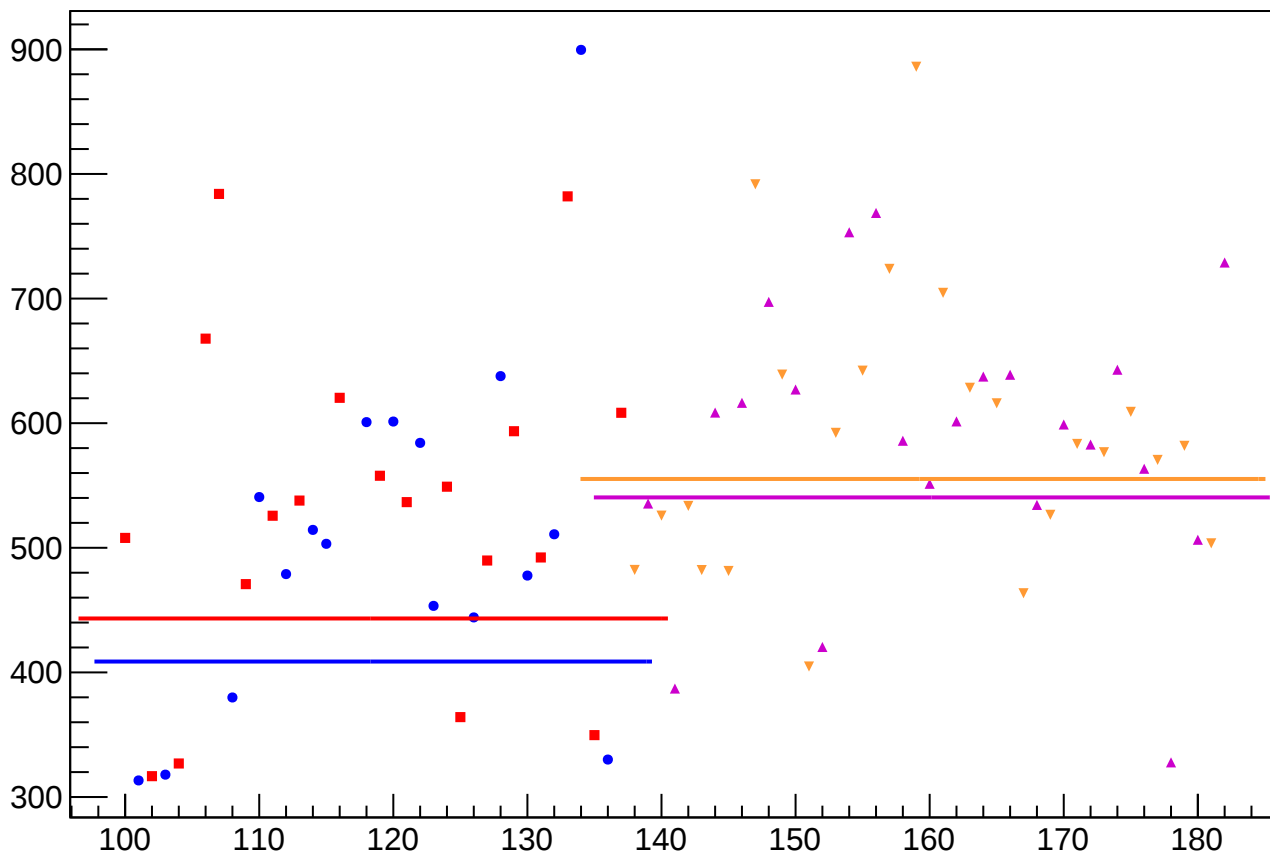
Left In: 134149.172 $\pm$ 0.143

χ^2 /NDF: 14197754.3/21

All: 135052.251 $\pm$ 0.079

χ^2 /NDF: 277418763.4/160

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.721 $\pm$ 0.121 χ^2 /NDF: 830375.0/16

Left Out: 555.231 $\pm$ 0.100 χ^2 /NDF: 920736.0/22

Right Out: 443.274 $\pm$ 0.129 χ^2 /NDF: 916555.3/18

Left In: 540.428 $\pm$ 0.101 χ^2 /NDF: 1408820.4/21

Left: 547.888 $\pm$ 0.071 χ^2 /NDF: 2340335.4/44

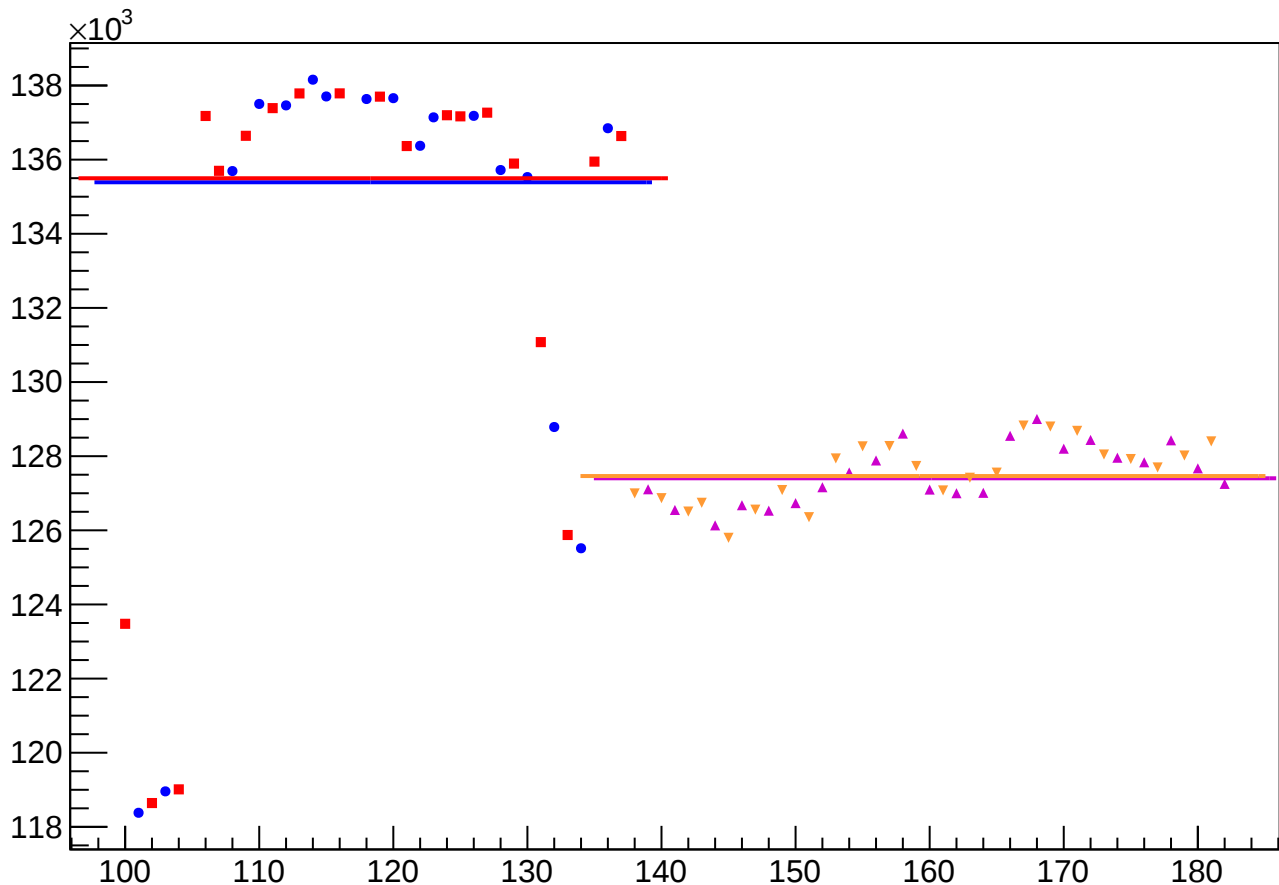
Right: 424.912 $\pm$ 0.089 χ^2 /NDF: 1784847.3/35

In: 486.451 $\pm$ 0.078 χ^2 /NDF: 2933083.8/38

Out: 513.131 $\pm$ 0.079 χ^2 /NDF: 2304701.8/41

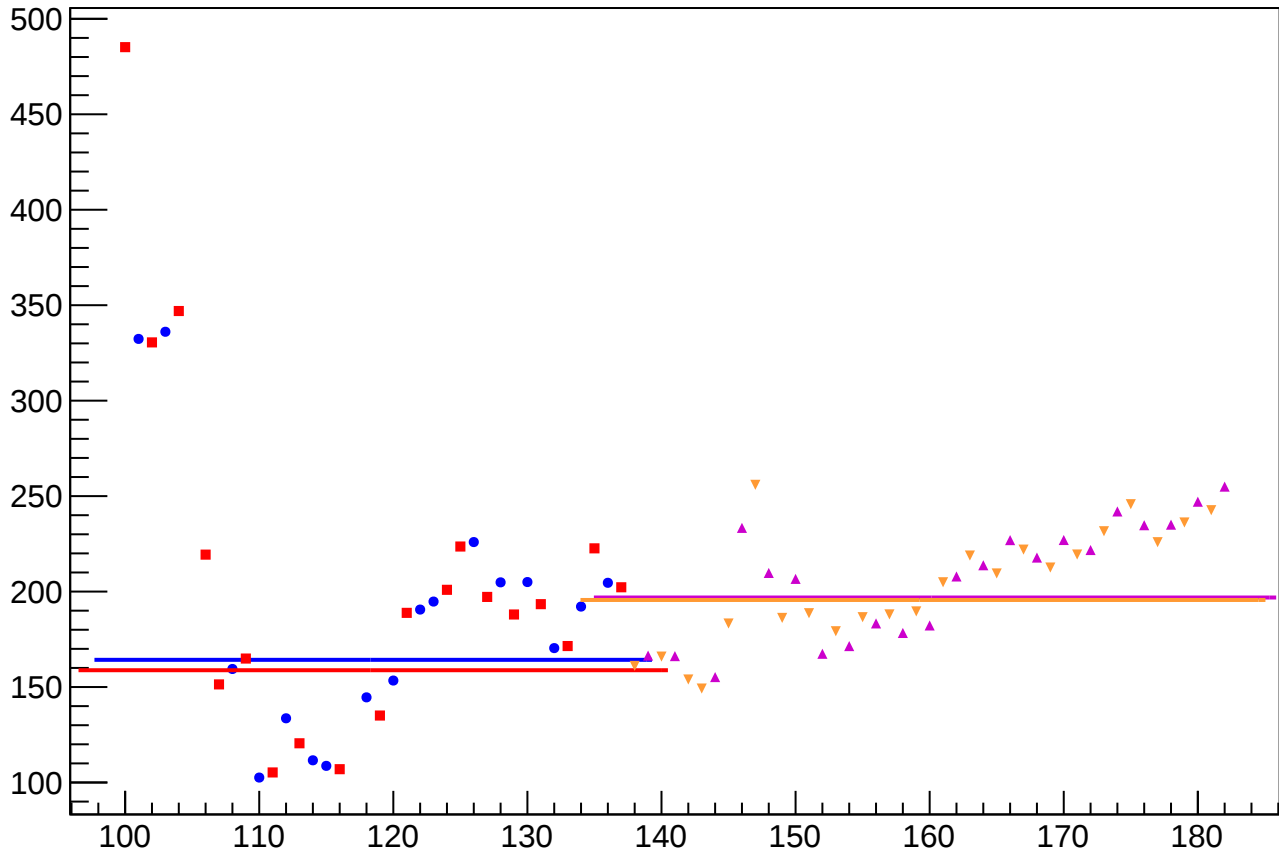
All: 499.526 $\pm$ 0.056 χ^2 /NDF: 5295478.6/80

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135389.443 $\pm$ 0.068	χ^2 /NDF: 4578120272.5/16	Left: 127434.379 $\pm$ 0.034	χ^2 /NDF: 567469743.9/4
Left Out: 127464.159 $\pm$ 0.048	χ^2 /NDF: 297260620.3/22	Right: 135446.829 $\pm$ 0.047	χ^2 /NDF: 9318066155.5/
Right Out: 135497.758 $\pm$ 0.064	χ^2 /NDF: 4738615601.8/18	In: 130084.563 $\pm$ 0.040	χ^2 /NDF: 13914318259.8/3
Left In: 127403.526 $\pm$ 0.049	χ^2 /NDF: 269416935.8/21	Out: 130313.630 $\pm$ 0.038	χ^2 /NDF: 15079149766.3
		All: 130202.782 $\pm$ 0.028	χ^2 /NDF: 290107312

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.250 $\pm$ 0.048 χ^2 /NDF: 1227814.4/16

Left Out: 195.604 $\pm$ 0.034 χ^2 /NDF: 735908.8/22

Right Out: 158.804 $\pm$ 0.046 χ^2 /NDF: 1376920.6/18

Left In: 196.889 $\pm$ 0.034 χ^2 /NDF: 761380.9/21

Left: 196.235 $\pm$ 0.024 χ^2 /NDF: 1498001.9/44

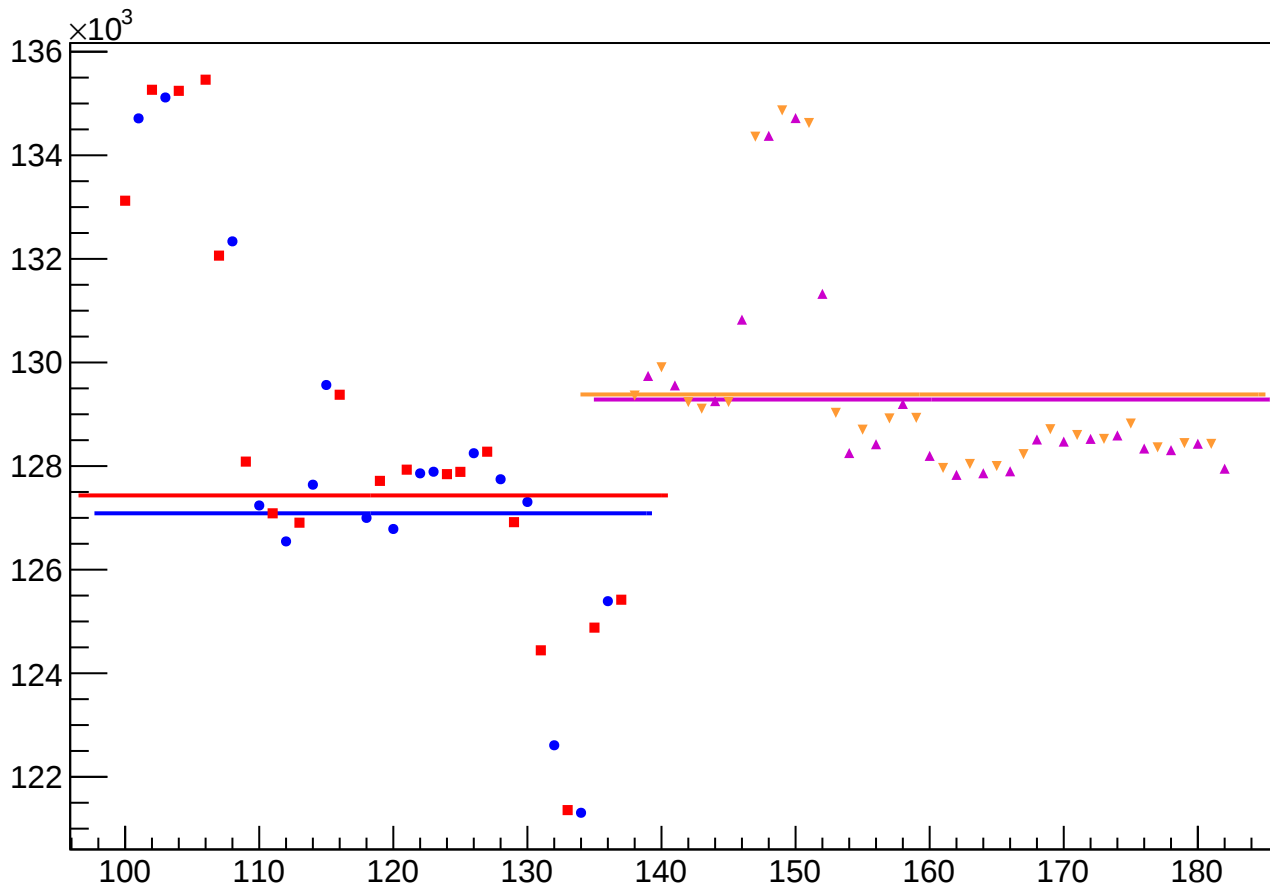
Right: 161.365 $\pm$ 0.033 χ^2 /NDF: 2611460.2/35

In: 185.931 $\pm$ 0.028 χ^2 /NDF: 2292107.9/38

Out: 182.551 $\pm$ 0.027 χ^2 /NDF: 2534303.5/41

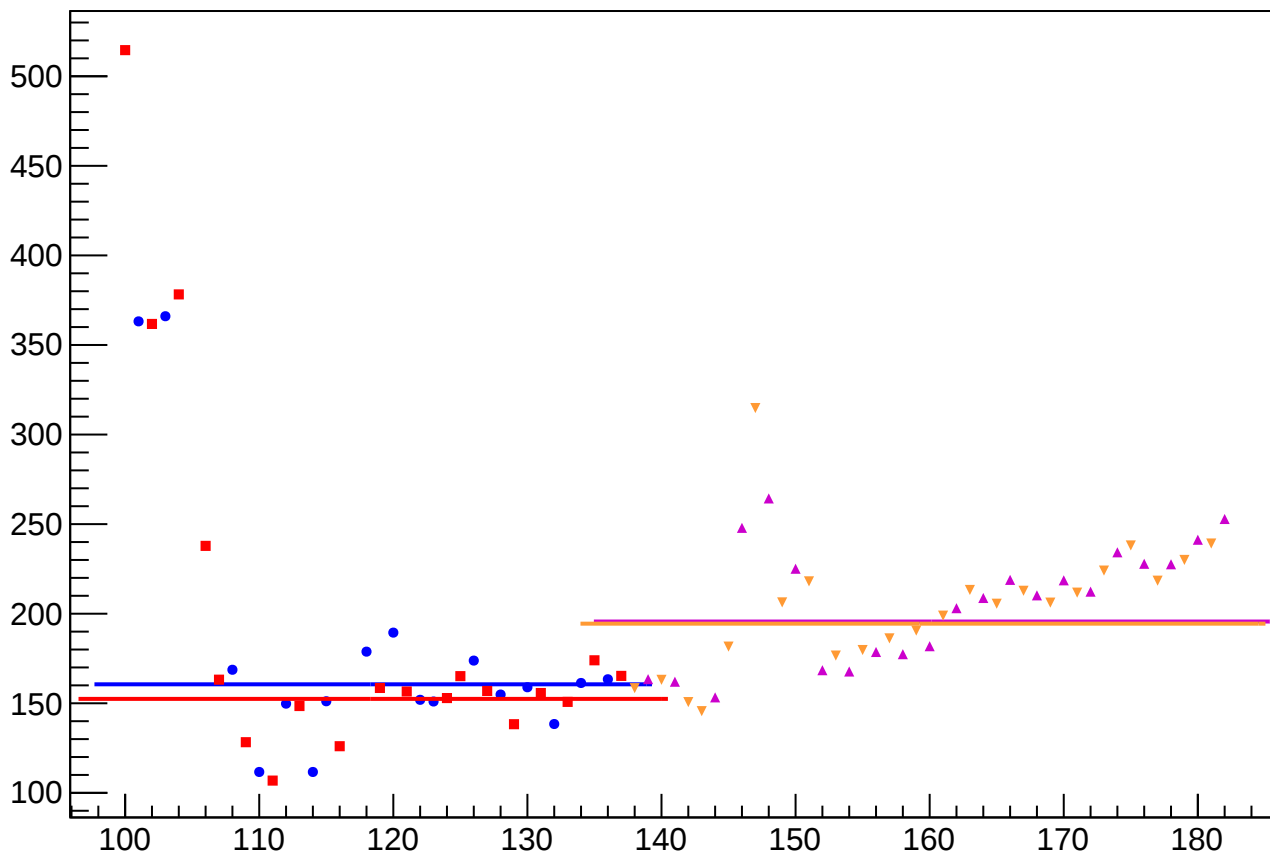
All: 184.187 $\pm$ 0.019 χ^2 /NDF: 4833930.3/80

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127088.167 $\pm$ 0.066	χ^2 /NDF: 1716591601.9/16	Left: 129334.452 $\pm$ 0.034	χ^2 /NDF: 2625004359.6/16
Left Out: 129382.699 $\pm$ 0.048	χ^2 /NDF: 1422762406.4/22	Right: 127273.865 $\pm$ 0.045	χ^2 /NDF: 3812853475.7/22
Right Out: 127433.358 $\pm$ 0.062	χ^2 /NDF: 2081739412.0/18	In: 128523.223 $\pm$ 0.039	χ^2 /NDF: 3630864780.4/39
Left In: 129284.645 $\pm$ 0.048	χ^2 /NDF: 1200156640.2/21	Out: 128652.901 $\pm$ 0.038	χ^2 /NDF: 4131584563.8/41
		All: 128590.498 $\pm$ 0.027	χ^2 /NDF: 776815097.0/100

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.589+/-0.047 χ^2/NDF : 942522.1/16

Left Out: 194.439+/-0.034 χ^2/NDF : 868370.7/22

Right Out: 152.452+/-0.044 χ^2/NDF : 1084973.3/18

Left In: 195.633+/-0.034 χ^2/NDF : 871632.4/21

Left: 195.027+/-0.024 χ^2/NDF : 1740621.5/44

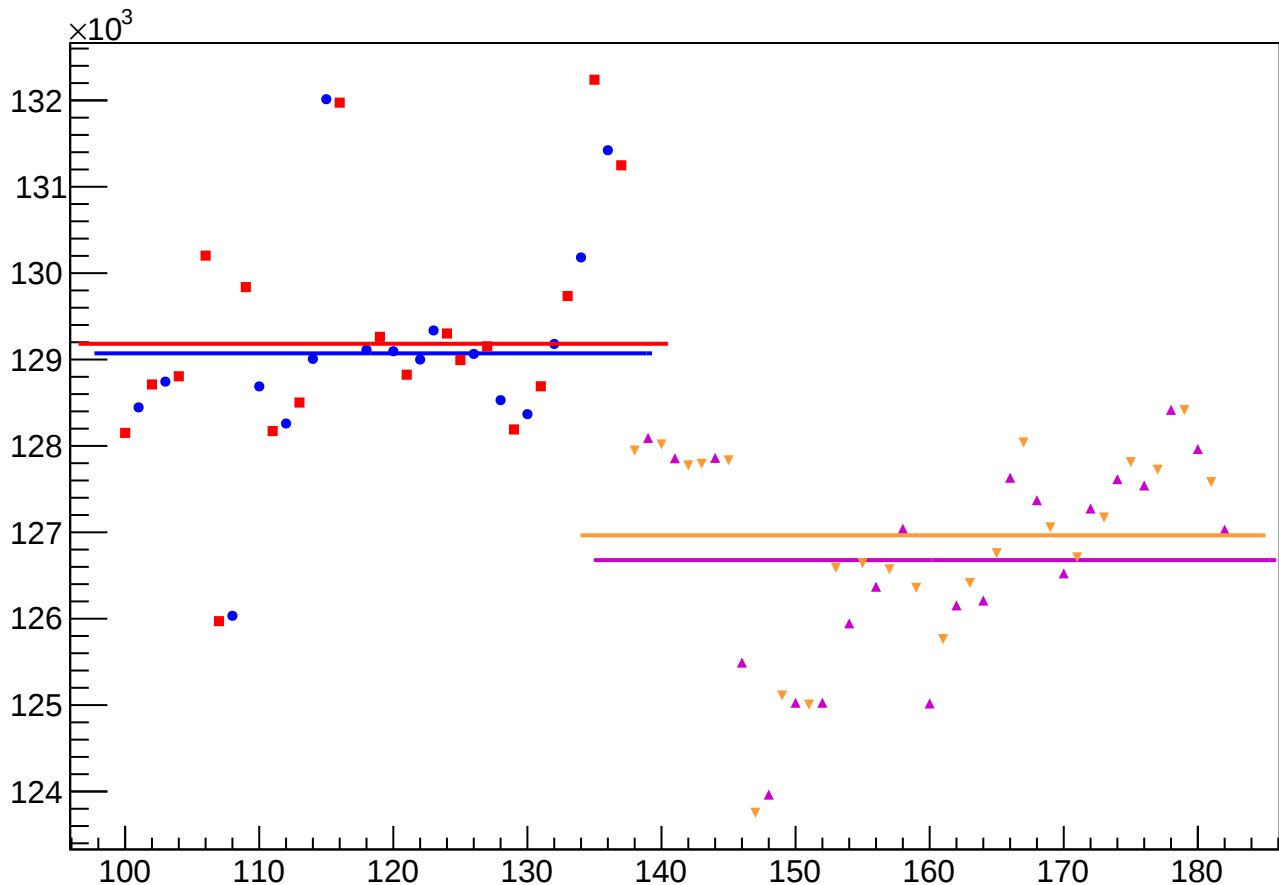
Right: 156.211+/-0.032 χ^2/NDF : 2043633.6/35

In: 183.485+/-0.028 χ^2/NDF : 2177728.2/38

Out: 178.720+/-0.027 χ^2/NDF : 2535206.4/41

All: 181.013+/-0.019 χ^2/NDF : 4728330.3/80

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129071.617 $\pm$ 0.060

χ^2 /NDF: 476291091.1/16

Left Out: 126965.257 $\pm$ 0.046

χ^2 /NDF: 526546728.0/22

Right Out: 129182.486 $\pm$ 0.056

χ^2 /NDF: 625425272.9/18

Left In: 126678.357 $\pm$ 0.047

χ^2 /NDF: 659528640.5/21

Left: 126824.355 $\pm$ 0.033

χ^2 /NDF: 1204865563.2/4

Right: 129130.997 $\pm$ 0.041

χ^2 /NDF: 1103528566.8/4

In: 127588.454 $\pm$ 0.037

χ^2 /NDF: 2112902435.9/38

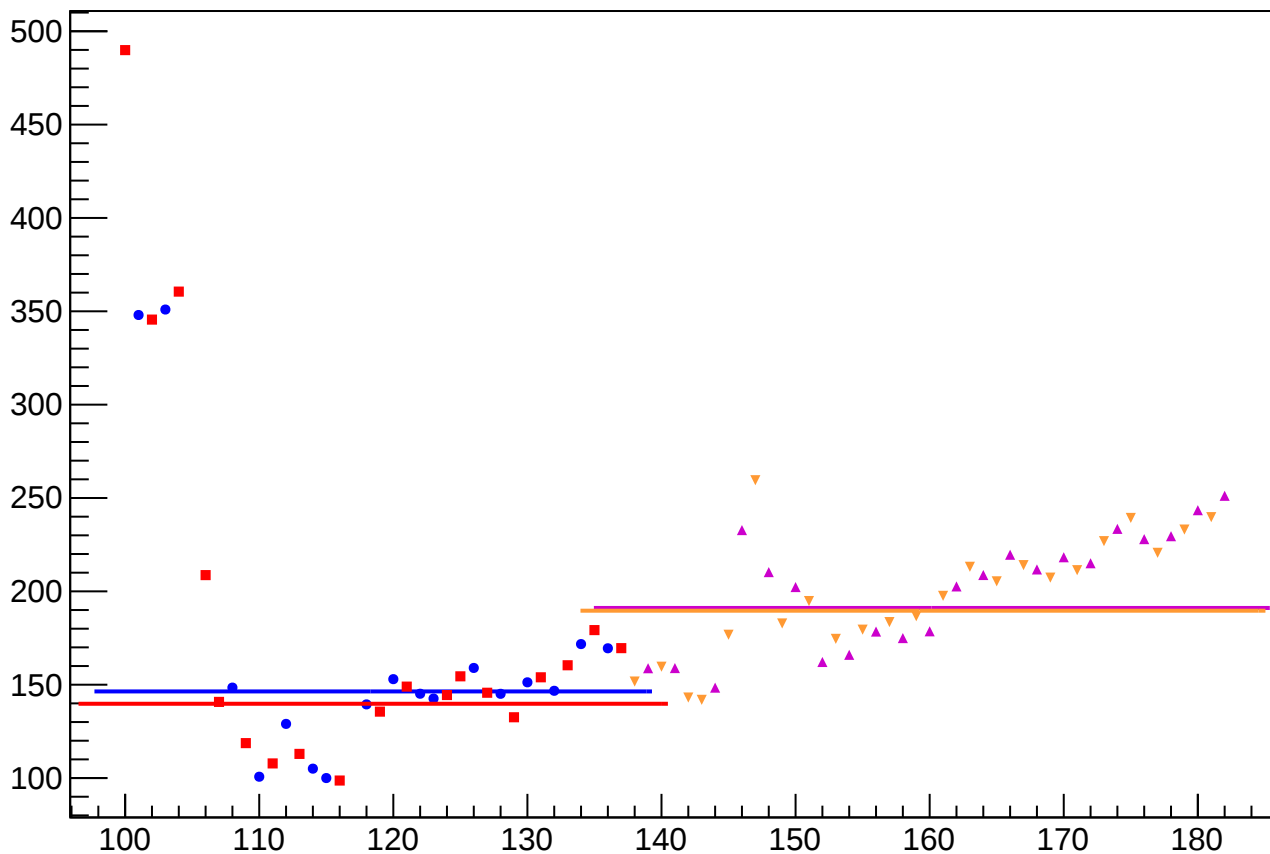
Out: 127865.019 $\pm$ 0.036

χ^2 /NDF: 2079279408.5/4

All: 127732.099 $\pm$ 0.026

χ^2 /NDF: 422093872.0/4

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.401 $\pm$ 0.043 χ^2/NDF : 1066973.0/16

Left Out: 189.639 $\pm$ 0.033 χ^2/NDF : 863610.5/22

Right Out: 139.793 $\pm$ 0.040 χ^2/NDF : 1200865.0/18

Left In: 191.107 $\pm$ 0.033 χ^2/NDF : 832577.5/21

Left: 190.360 $\pm$ 0.023 χ^2/NDF : 1697170.9/44

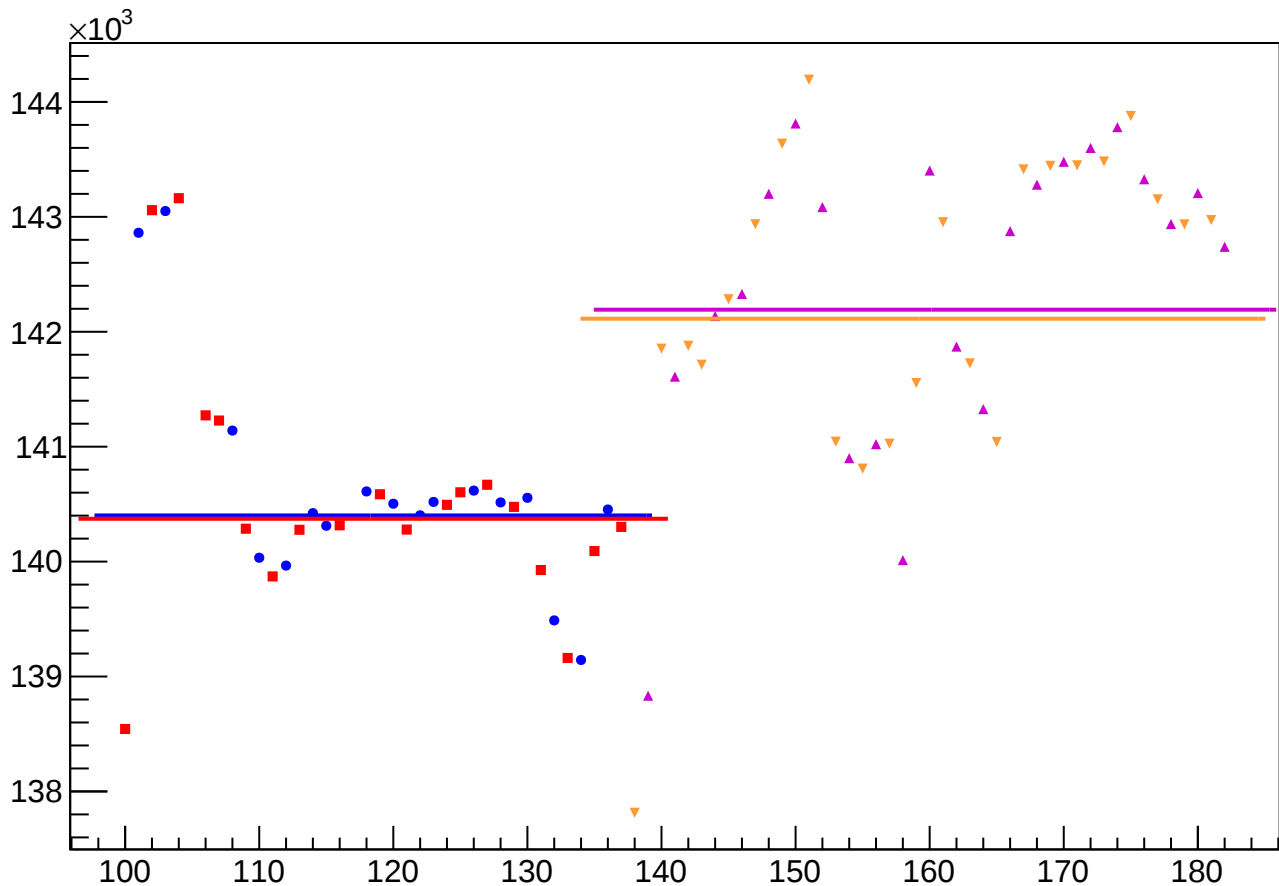
Right: 142.862 $\pm$ 0.029 χ^2/NDF : 2280713.0/35

In: 174.106 $\pm$ 0.026 χ^2/NDF : 2581423.6/38

Out: 169.411 $\pm$ 0.025 χ^2/NDF : 3001813.7/41

All: 171.668 $\pm$ 0.018 χ^2/NDF : 5599810.3/80

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140401.573 $\pm$ 0.064 χ^2 /NDF: 88055814.0/16

Left Out: 142113.876 $\pm$ 0.053 χ^2 /NDF: 806119651.5/22

Right Out: 140372.890 $\pm$ 0.060 χ^2 /NDF: 99844698.8/18

Left In: 142192.280 $\pm$ 0.054 χ^2 /NDF: 643750609.5/21

Left: 142152.502 $\pm$ 0.038 χ^2 /NDF: 1450935456.0/4

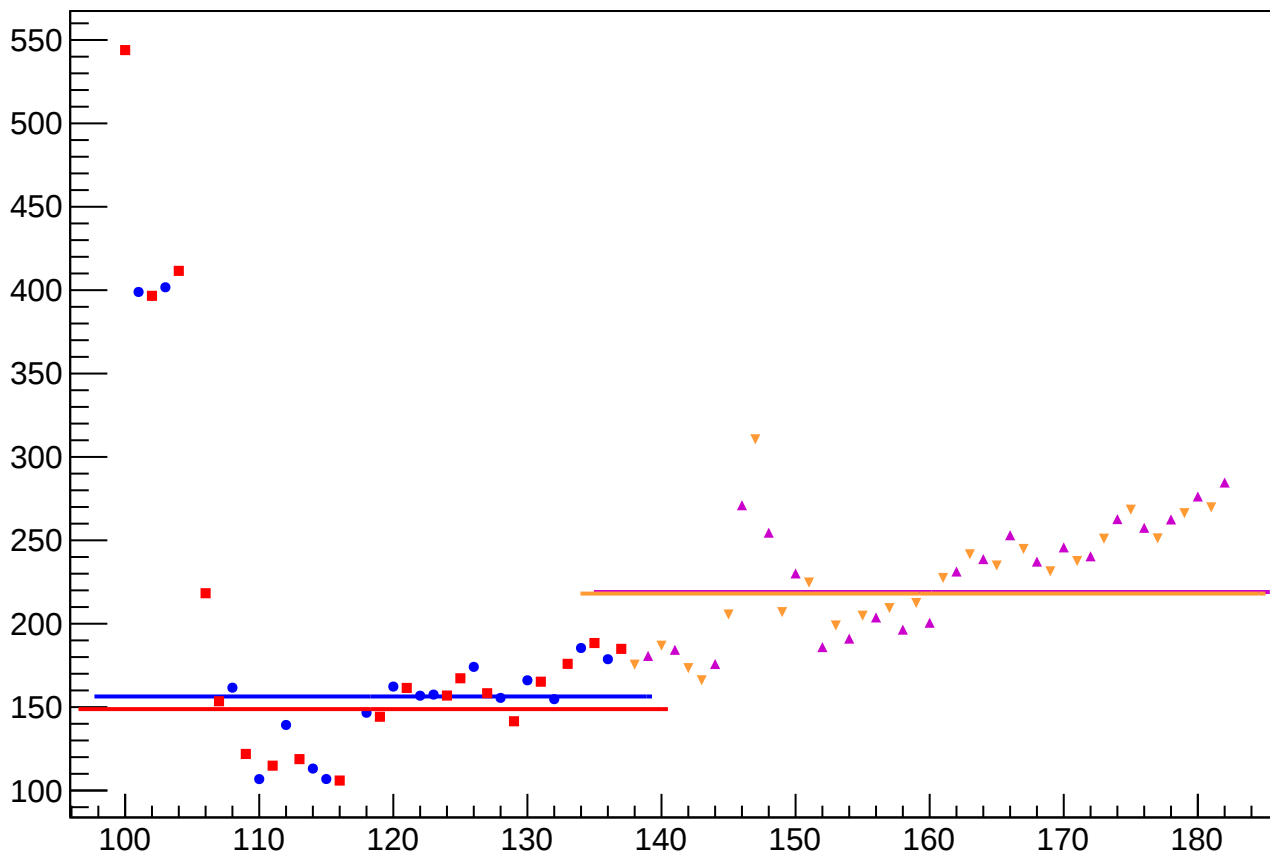
Right: 140386.177 $\pm$ 0.044 χ^2 /NDF: 188006778.1/3

In: 141452.092 $\pm$ 0.041 χ^2 /NDF: 1184502432.2/38

Out: 141343.998 $\pm$ 0.040 χ^2 /NDF: 1377405869.4/4

All: 141395.889 $\pm$ 0.029 χ^2 /NDF: 256544524

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.377 $\pm$ 0.046 χ^2 /NDF: 1154470.5/16

Left Out: 218.075 $\pm$ 0.038 χ^2 /NDF: 757640.2/22

Right Out: 148.800 $\pm$ 0.042 χ^2 /NDF: 1304529.7/18

Left In: 219.018 $\pm$ 0.038 χ^2 /NDF: 779586.3/21

Left: 218.540 $\pm$ 0.027 χ^2 /NDF: 1537535.1/44

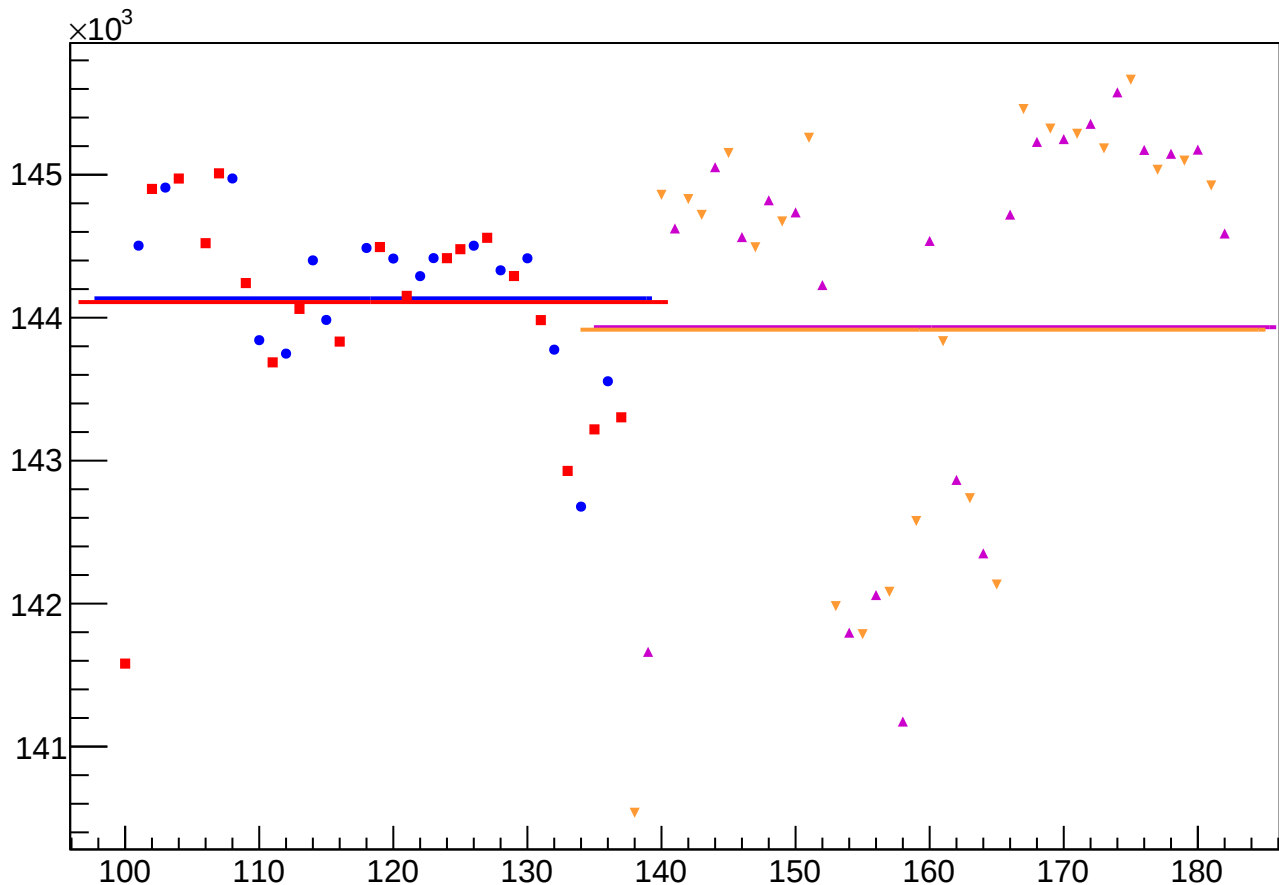
Right: 152.310 $\pm$ 0.031 χ^2 /NDF: 2473830.9/35

In: 193.125 $\pm$ 0.029 χ^2 /NDF: 3041995.9/38

Out: 187.441 $\pm$ 0.028 χ^2 /NDF: 3555030.2/41

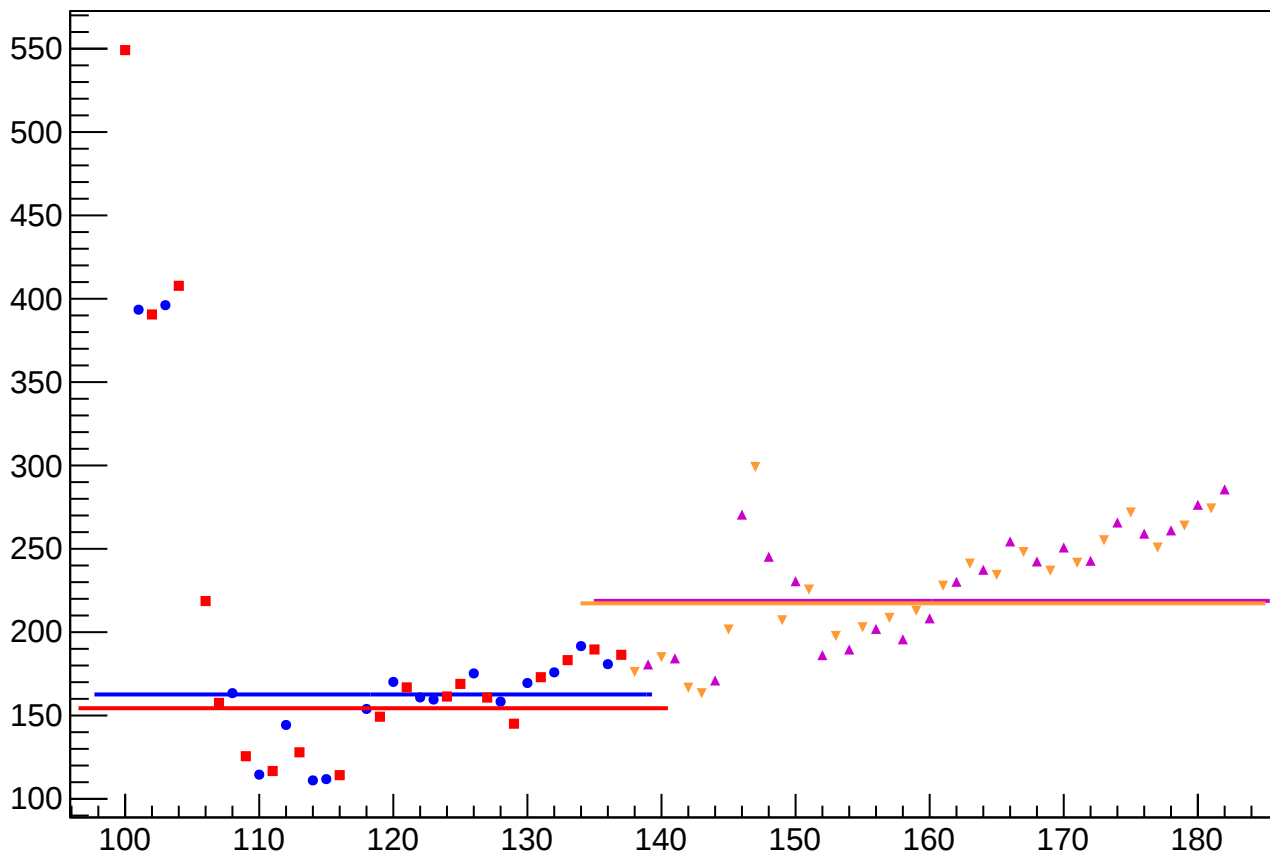
All: 190.170 $\pm$ 0.020 χ^2 /NDF: 6616590.2/80

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144135.363 $\pm$ 0.067	χ^2 /NDF: 47030717.0/16	Left: 143924.683 $\pm$ 0.038	χ^2 /NDF: 1572029328.8/4
Left Out: 143916.157 $\pm$ 0.053	χ^2 /NDF: 853007550.3/22	Right: 144121.238 $\pm$ 0.045	χ^2 /NDF: 112346812.4/3
Right Out: 144109.137 $\pm$ 0.062	χ^2 /NDF: 65233259.1/18	In: 144013.342 $\pm$ 0.042	χ^2 /NDF: 771507514.7/38
Left In: 143933.512 $\pm$ 0.054	χ^2 /NDF: 718969410.4/21	Out: 143998.066 $\pm$ 0.040	χ^2 /NDF: 923835675.7/41
		All: 144005.383 $\pm$ 0.029	χ^2 /NDF: 169541193

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.634 $\pm$ 0.047 χ^2/NDF : 1069524.2/16

Left Out: 217.284 $\pm$ 0.038 χ^2/NDF : 817220.0/22

Right Out: 154.377 $\pm$ 0.044 χ^2/NDF : 1214462.2/18

Left In: 218.763 $\pm$ 0.038 χ^2/NDF : 817517.0/21

Left: 218.010 $\pm$ 0.027 χ^2/NDF : 1635497.7/44

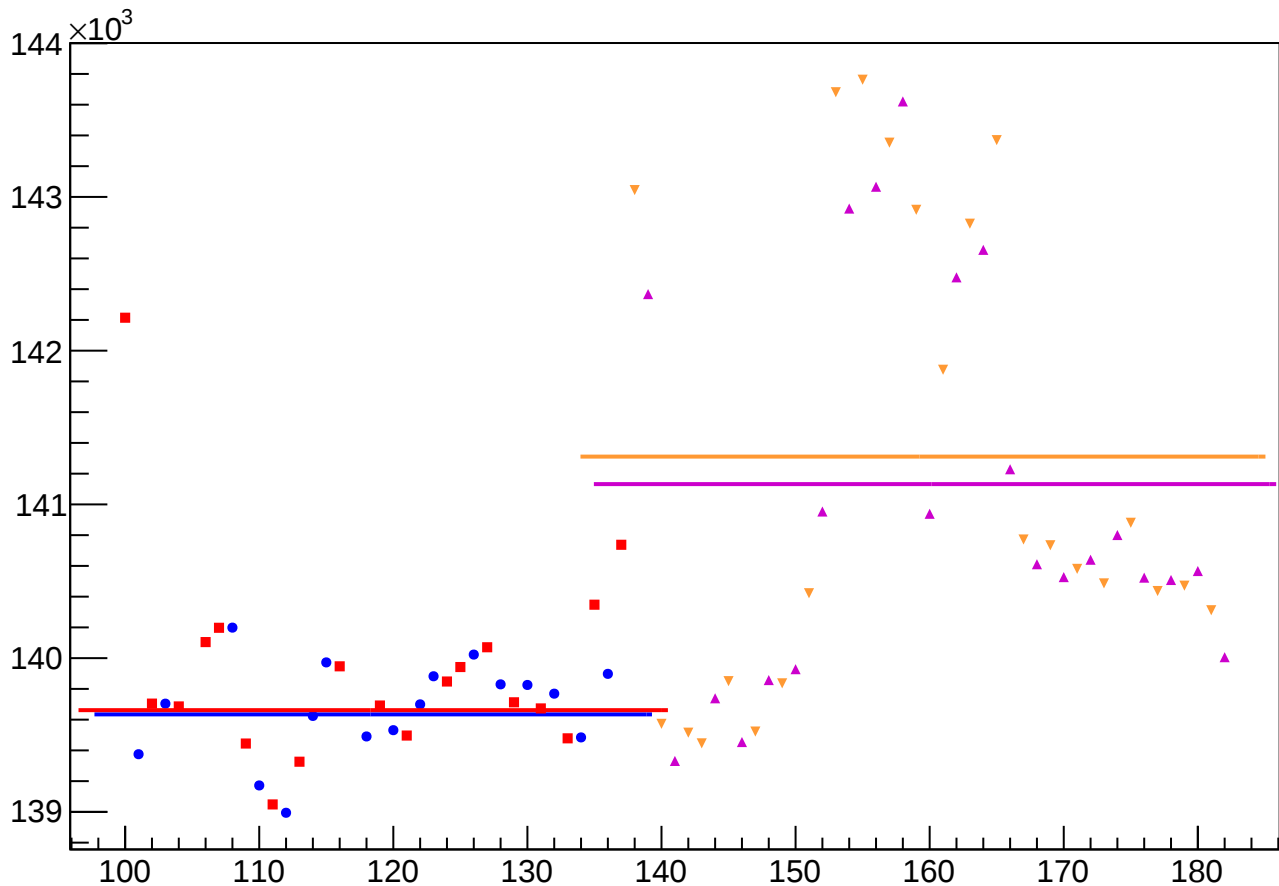
Right: 158.187 $\pm$ 0.032 χ^2/NDF : 2300407.0/35

In: 196.564 $\pm$ 0.030 χ^2/NDF : 2738728.9/38

Out: 190.584 $\pm$ 0.029 χ^2/NDF : 3220697.0/41

All: 193.449 $\pm$ 0.021 χ^2/NDF : 5980497.9/80

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.248+/-0.068

χ^2/NDF : 24816599.6/16

Left Out: 141310.952+/-0.055

χ^2/NDF : 778425343.2/22

Right Out: 139661.708+/-0.063

χ^2/NDF : 38354381.9/18

Left In: 141132.065+/-0.055

χ^2/NDF : 560053954.0/21

Left: 141222.275+/-0.039

χ^2/NDF : 1343777641.1/4

Right: 139648.993+/-0.046

χ^2/NDF : 63258749.7/35

In: 140536.434+/-0.043

χ^2/NDF : 877785510.7/38

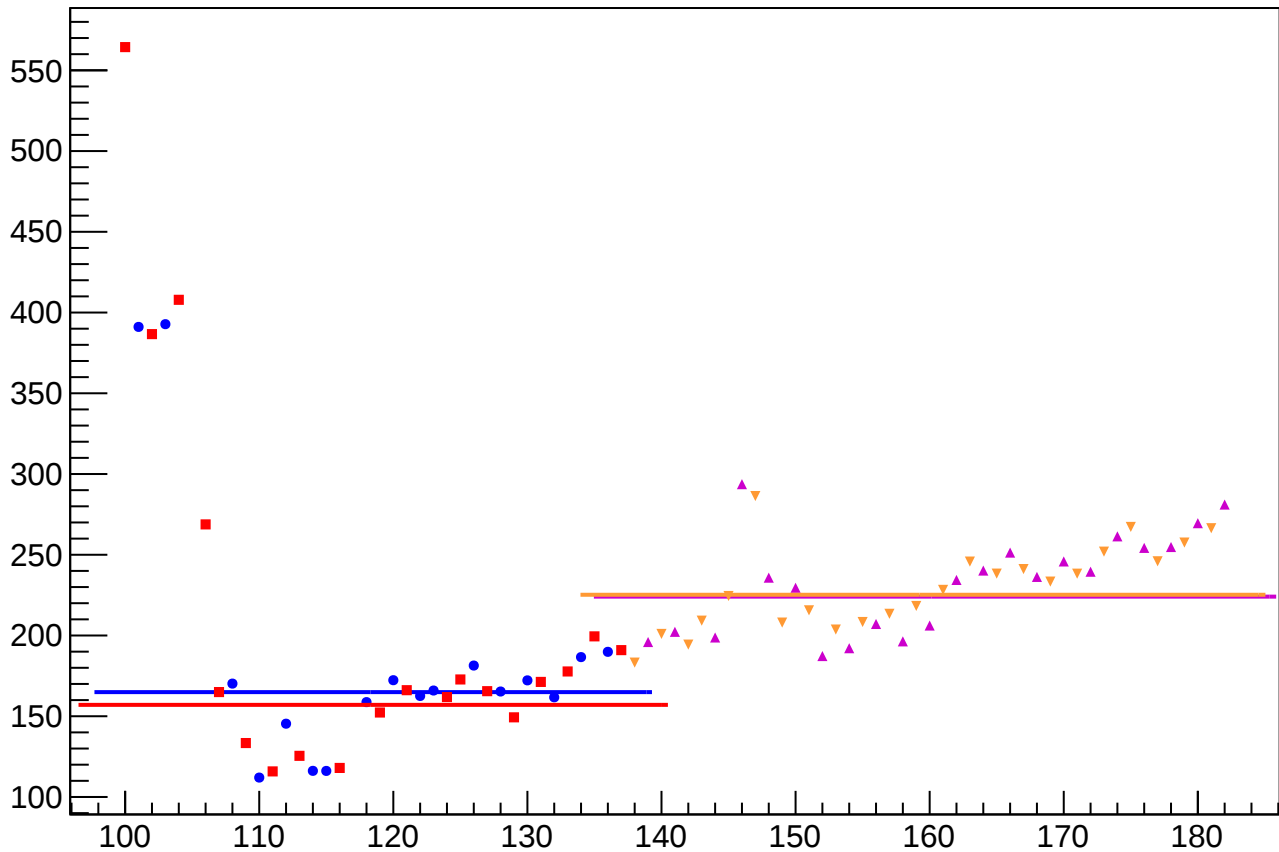
Out: 140602.756+/-0.041

χ^2/NDF : 1206891237.7/4

All: 140570.776+/-0.030

χ^2/NDF : 208591827

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.938 $\pm$ 0.048 χ^2 /NDF: 1064403.1/16

Left Out: 225.230 $\pm$ 0.039 χ^2 /NDF: 404065.3/22

Right Out: 157.047 $\pm$ 0.045 χ^2 /NDF: 1242666.6/18

Left In: 224.073 $\pm$ 0.039 χ^2 /NDF: 553366.6/21

Left: 224.657 $\pm$ 0.027 χ^2 /NDF: 957875.3/44

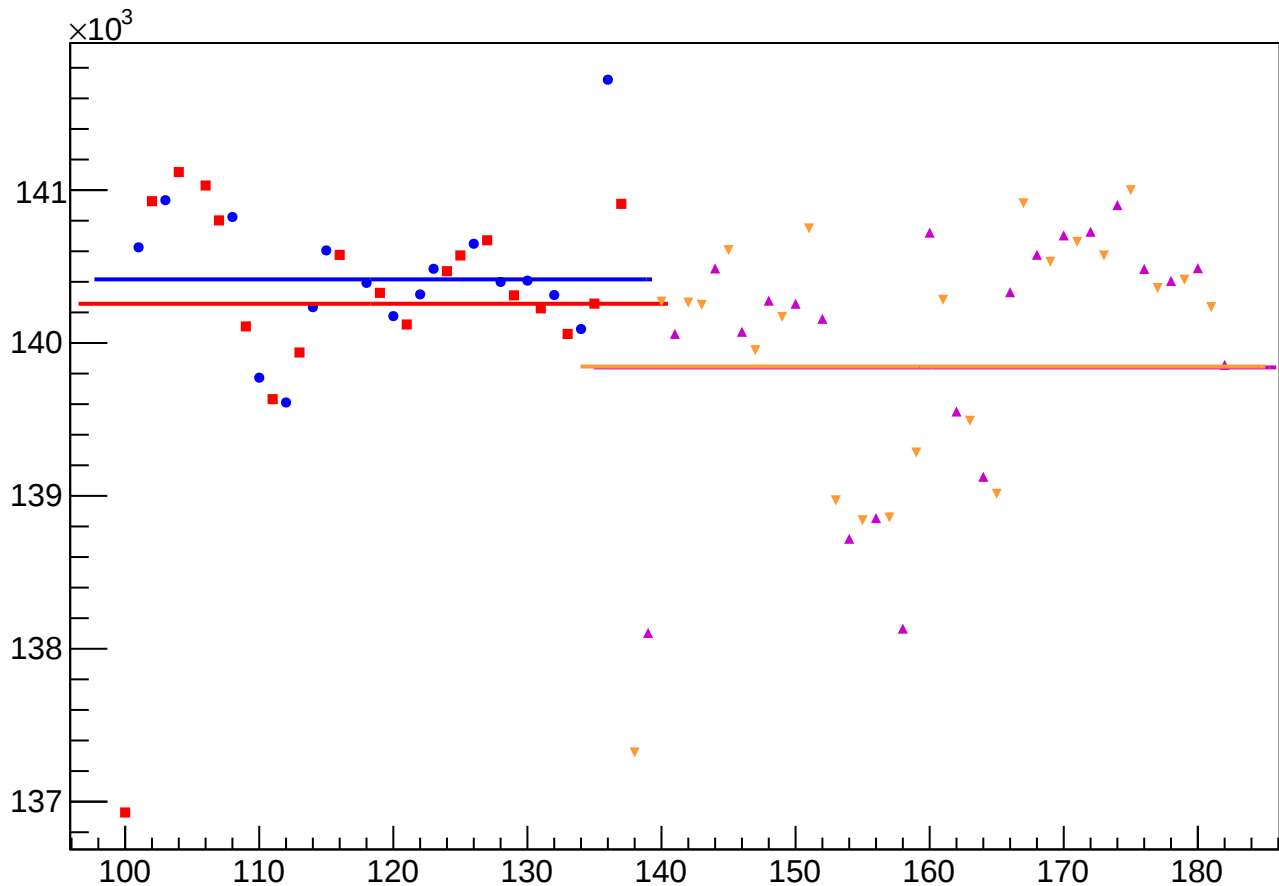
Right: 160.701 $\pm$ 0.033 χ^2 /NDF: 2321561.9/35

In: 200.557 $\pm$ 0.030 χ^2 /NDF: 2530930.8/38

Out: 195.952 $\pm$ 0.029 χ^2 /NDF: 2980246.1/41

All: 198.172 $\pm$ 0.021 χ^2 /NDF: 5523147.1/80

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.183 ± 0.069 $\chi^2/\text{NDF}: 69956735.1/16$

Left Out: 139845.973 ± 0.052 $\chi^2/\text{NDF}: 328213092.5/22$

Right Out: 140256.621 ± 0.063 $\chi^2/\text{NDF}: 38038769.4/18$

Left In: 139840.352 ± 0.053 $\chi^2/\text{NDF}: 279473638.2/21$

Left: 139843.215 ± 0.037 $\chi^2/\text{NDF}: 607692448.3/4$

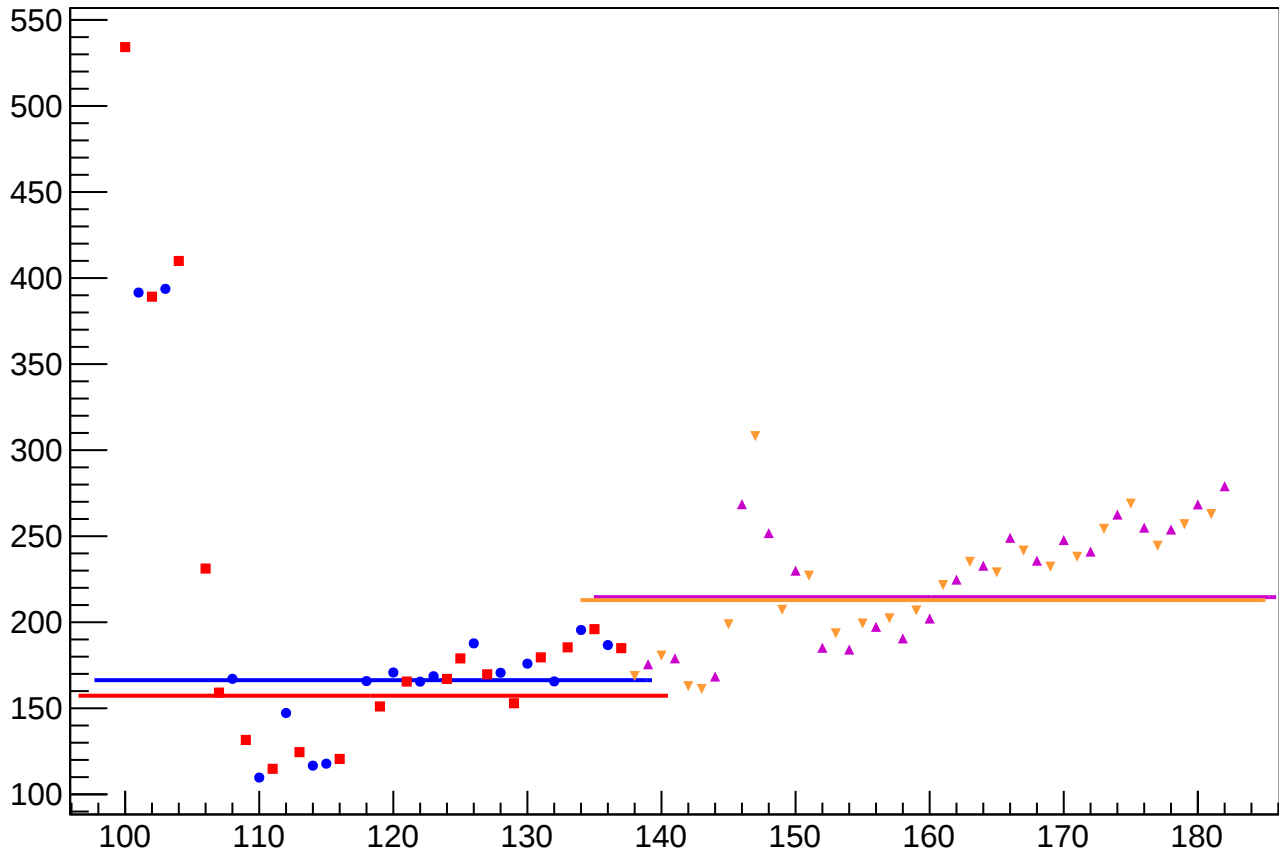
Right: 140329.953 ± 0.046 $\chi^2/\text{NDF}: 110927465.2/3$

In: 140056.218 ± 0.042 $\chi^2/\text{NDF}: 393599876.9/38$

Out: 140012.094 ± 0.040 $\chi^2/\text{NDF}: 391412870.2/41$

All: 140033.209 ± 0.029 $\chi^2/\text{NDF}: 785589848$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.338 ± 0.048 $\chi^2/\text{NDF}: 1081005.6/16$

Left Out: 212.867 ± 0.037 $\chi^2/\text{NDF}: 861532.2/22$

Right Out: 157.302 ± 0.045 $\chi^2/\text{NDF}: 1226210.5/18$

Left In: 214.585 ± 0.038 $\chi^2/\text{NDF}: 851379.4/21$

Left: 213.710 ± 0.026 $\chi^2/\text{NDF}: 1713979.6/44$

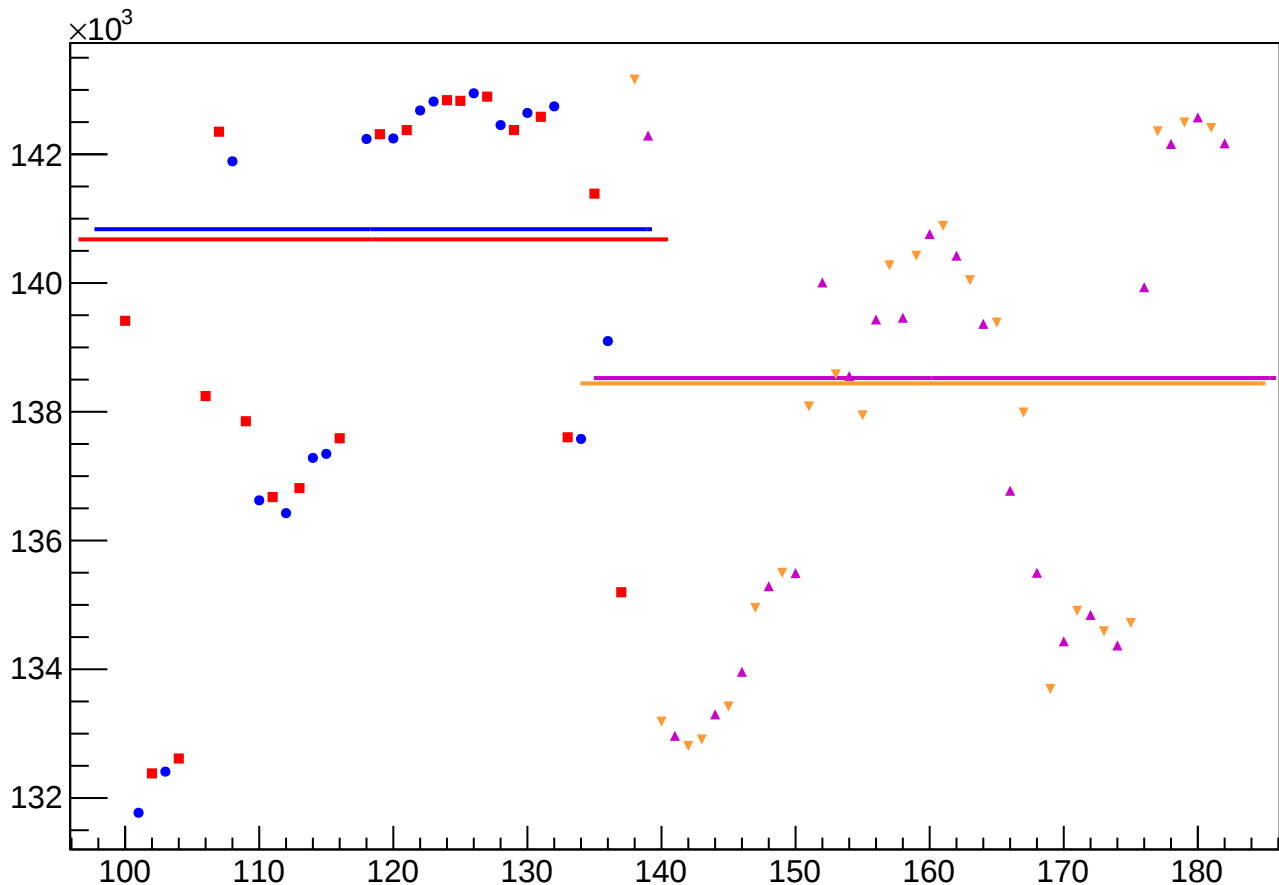
Right: 161.455 ± 0.033 $\chi^2/\text{NDF}: 2326018.0/35$

In: 196.498 ± 0.030 $\chi^2/\text{NDF}: 2552560.7/38$

Out: 190.390 ± 0.028 $\chi^2/\text{NDF}: 3009089.7/41$

All: 193.313 ± 0.021 $\chi^2/\text{NDF}: 5583773.1/80$

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140836.633 $\pm$ 0.100 χ^2 /NDF: 821253018.3/16

Left Out: 138441.033 $\pm$ 0.073 χ^2 /NDF: 2335695352.9/22

Right Out: 140678.692 $\pm$ 0.099 χ^2 /NDF: 840853098.4/18

Left In: 138524.315 $\pm$ 0.074 χ^2 /NDF: 1906689281.2/21

Left: 138482.038 $\pm$ 0.052 χ^2 /NDF: 4243021731.6/4

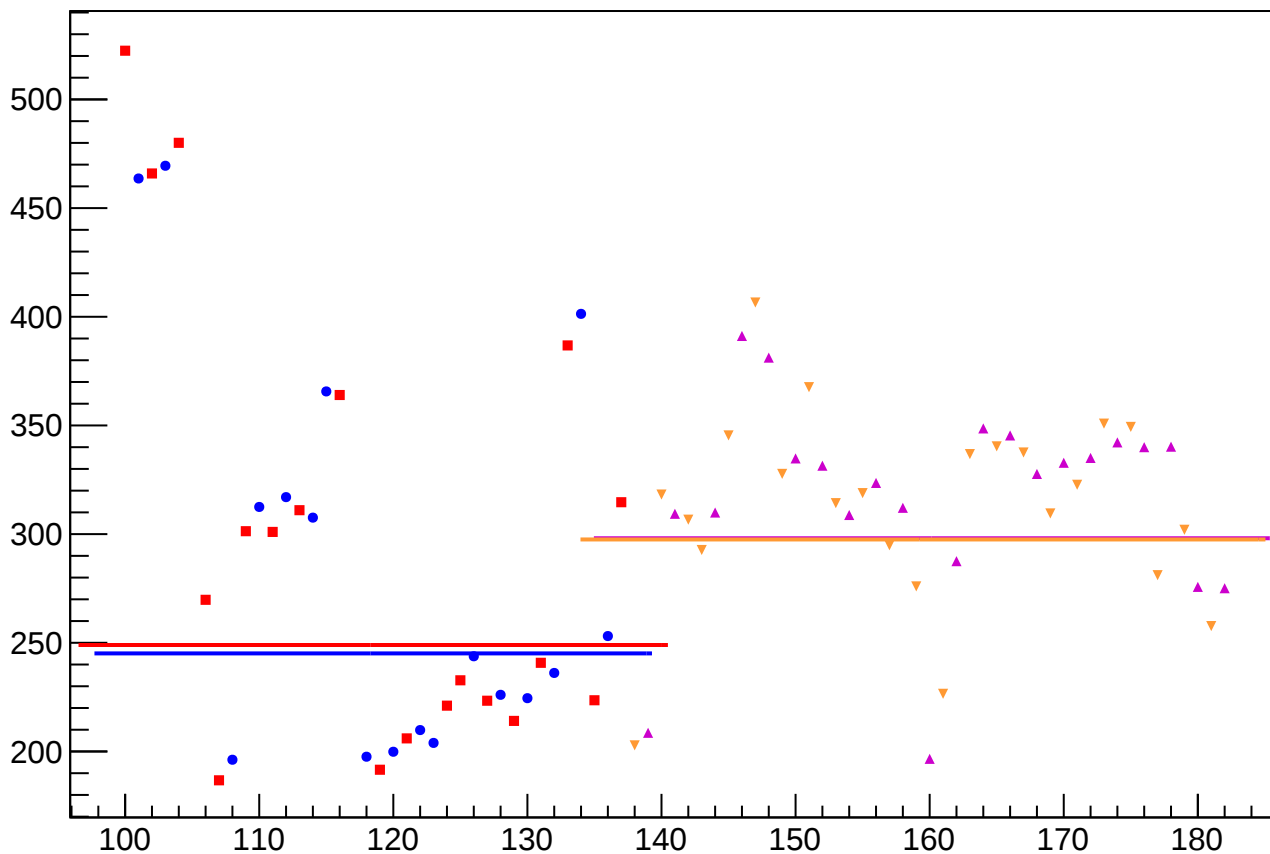
Right: 140756.822 $\pm$ 0.070 χ^2 /NDF: 1663362290.3/4

In: 139345.507 $\pm$ 0.060 χ^2 /NDF: 3071541282.0/38

Out: 139230.978 $\pm$ 0.059 χ^2 /NDF: 3506314800.7/4

All: 139287.463 $\pm$ 0.042 χ^2 /NDF: 657972146

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.117 $\pm$ 0.071 χ^2 /NDF: 868050.1/16

Left Out: 297.541 $\pm$ 0.052 χ^2 /NDF: 885011.0/22

Right Out: 248.984 $\pm$ 0.070 χ^2 /NDF: 1011335.0/18

Left In: 298.101 $\pm$ 0.053 χ^2 /NDF: 1059360.2/21

Left: 297.817 $\pm$ 0.037 χ^2 /NDF: 1944428.8/44

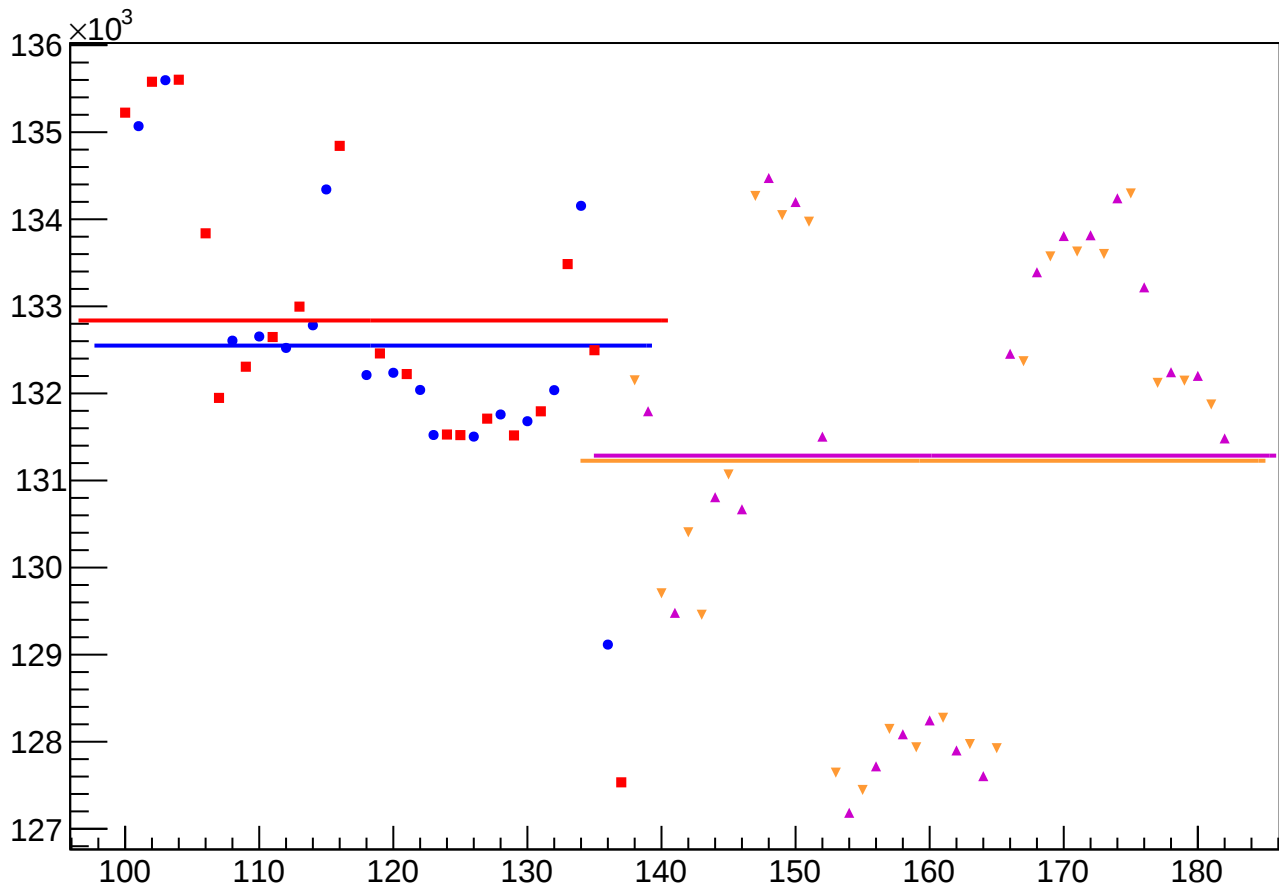
Right: 247.071 $\pm$ 0.050 χ^2 /NDF: 1880891.1/35

In: 279.284 $\pm$ 0.042 χ^2 /NDF: 2288221.6/38

Out: 280.399 $\pm$ 0.042 χ^2 /NDF: 2206916.1/41

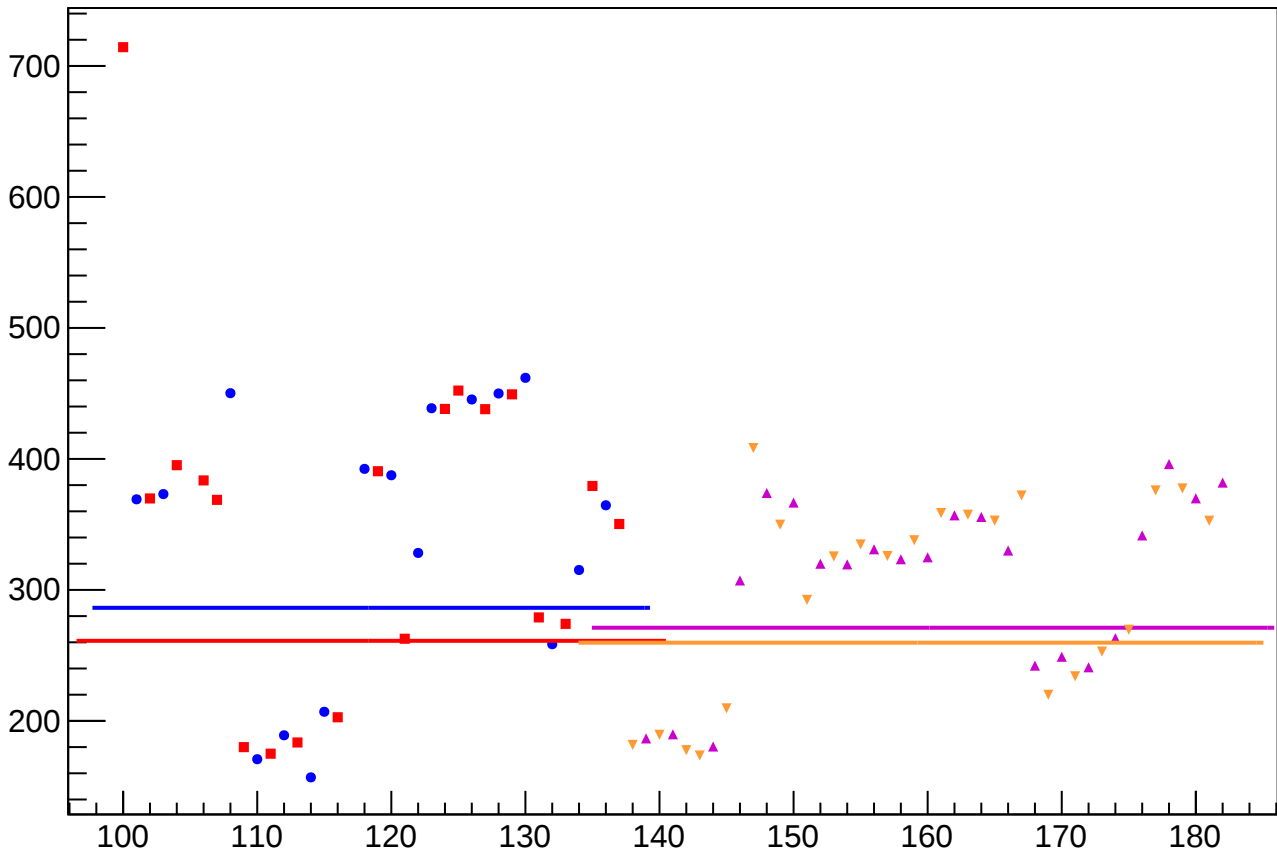
All: 279.849 $\pm$ 0.030 χ^2 /NDF: 4495491.3/80

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132549.335 $\pm$ 0.120	χ^2/NDF : 161038742.0/16	Left: 131254.768 $\pm$ 0.047	χ^2/NDF : 2223098979.8/4
Left Out: 131226.741 $\pm$ 0.065	χ^2/NDF : 1166481257.9/22	Right: 132709.457 $\pm$ 0.080	χ^2/NDF : 313937187.2/3
Right Out: 132837.715 $\pm$ 0.107	χ^2/NDF : 149672642.4/18	In: 131598.363 $\pm$ 0.060	χ^2/NDF : 1301225895.3/38
Left In: 131285.603 $\pm$ 0.069	χ^2/NDF : 1056232181.6/21	Out: 131664.544 $\pm$ 0.056	χ^2/NDF : 1480983714.0/4
		All: 131633.574 $\pm$ 0.041	χ^2/NDF : 278286739

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.338 $\pm$ 0.085 χ^2 /NDF: 1514049.7/16

Left Out: 259.714 $\pm$ 0.046 χ^2 /NDF: 2594476.9/22

Right Out: 261.146 $\pm$ 0.076 χ^2 /NDF: 1614381.3/18

Left In: 271.122 $\pm$ 0.049 χ^2 /NDF: 2170250.8/21

Left: 265.146 $\pm$ 0.033 χ^2 /NDF: 4793694.2/44

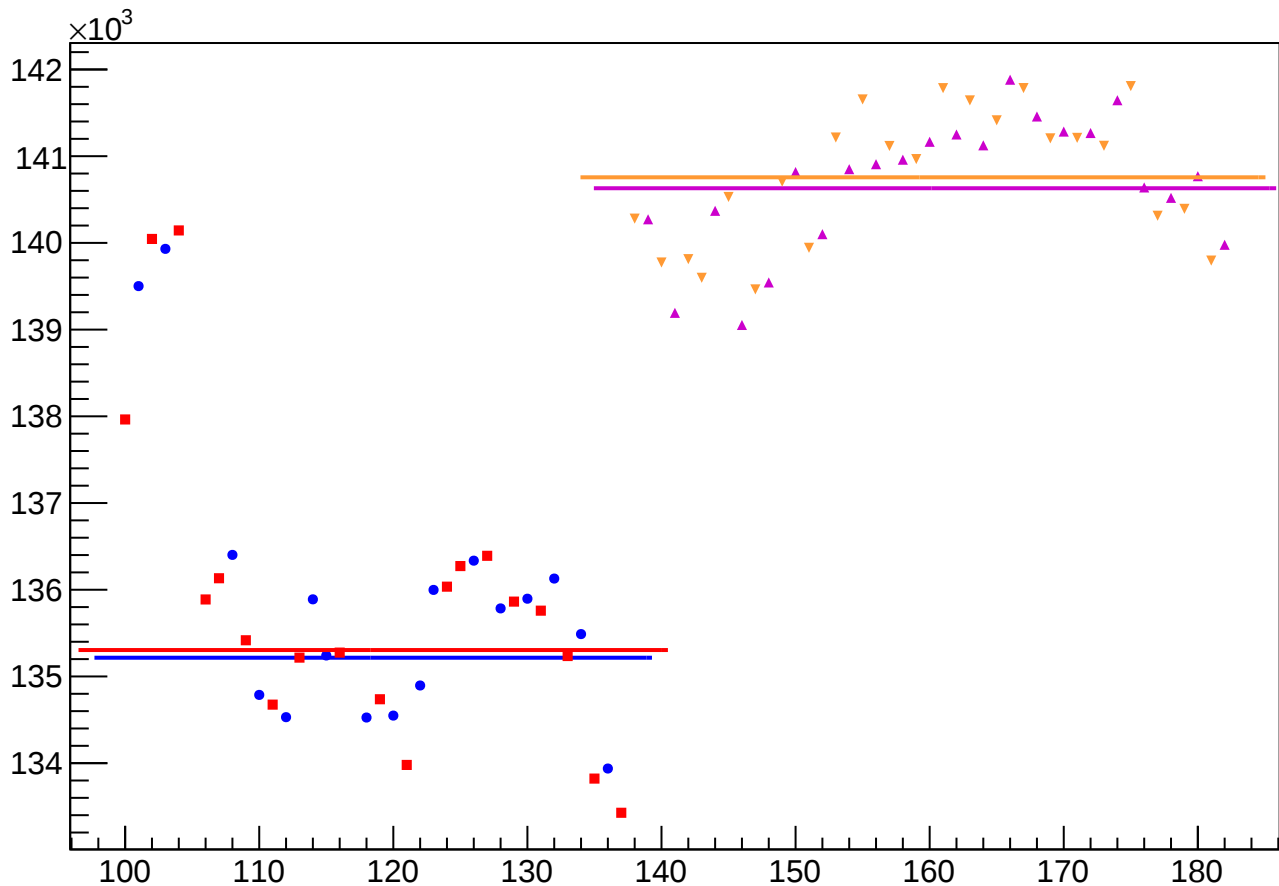
Right: 272.350 $\pm$ 0.056 χ^2 /NDF: 3177662.4/35

In: 274.888 $\pm$ 0.042 χ^2 /NDF: 3708640.7/38

Out: 260.103 $\pm$ 0.039 χ^2 /NDF: 4209118.8/41

All: 267.022 $\pm$ 0.029 χ^2 /NDF: 7983416.0/80

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.054 $\pm$ 0.054 χ^2 /NDF: 371419425.6/16

Left Out: 140756.404 $\pm$ 0.049 χ^2 /NDF: 231181536.0/22

Right Out: 135304.602 $\pm$ 0.051 χ^2 /NDF: 357443836.5/18

Left In: 140630.328 $\pm$ 0.051 χ^2 /NDF: 194732977.3/21

Left: 140695.994 $\pm$ 0.036 χ^2 /NDF: 429059566.2/44

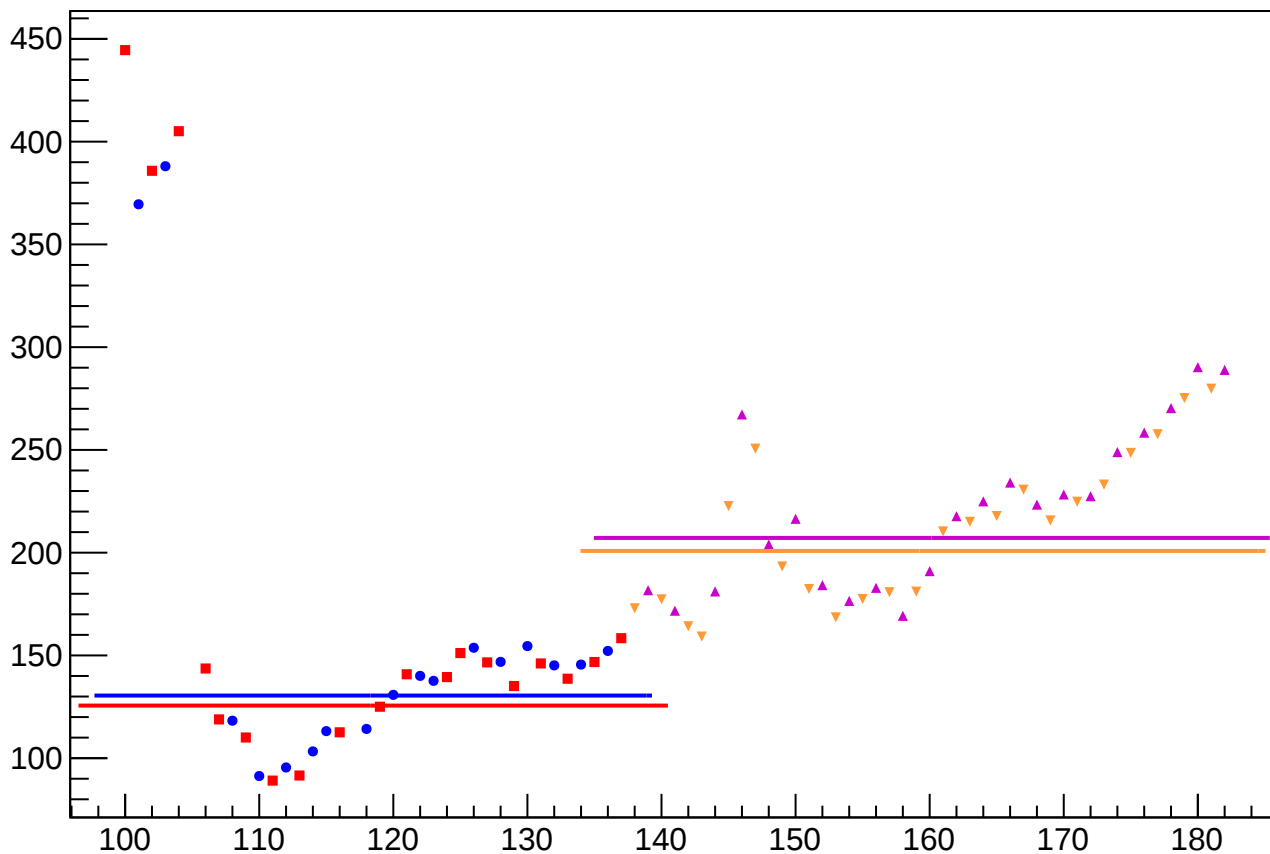
Right: 135263.073 $\pm$ 0.037 χ^2 /NDF: 730268475.9/30

In: 138083.085 $\pm$ 0.037 χ^2 /NDF: 5805401996.9/38

Out: 138136.142 $\pm$ 0.035 χ^2 /NDF: 6487472239.8/44

All: 138110.975 $\pm$ 0.026 χ^2 /NDF: 122939358.0/106

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.478+/-0.038 χ^2/NDF : 1372969.9/16

Left Out: 200.845+/-0.035 χ^2/NDF : 885966.0/22

Right Out: 125.594+/-0.036 χ^2/NDF : 1434855.8/18

Left In: 207.178+/-0.036 χ^2/NDF : 906574.8/21

Left: 203.879+/-0.025 χ^2/NDF : 1808409.0/44

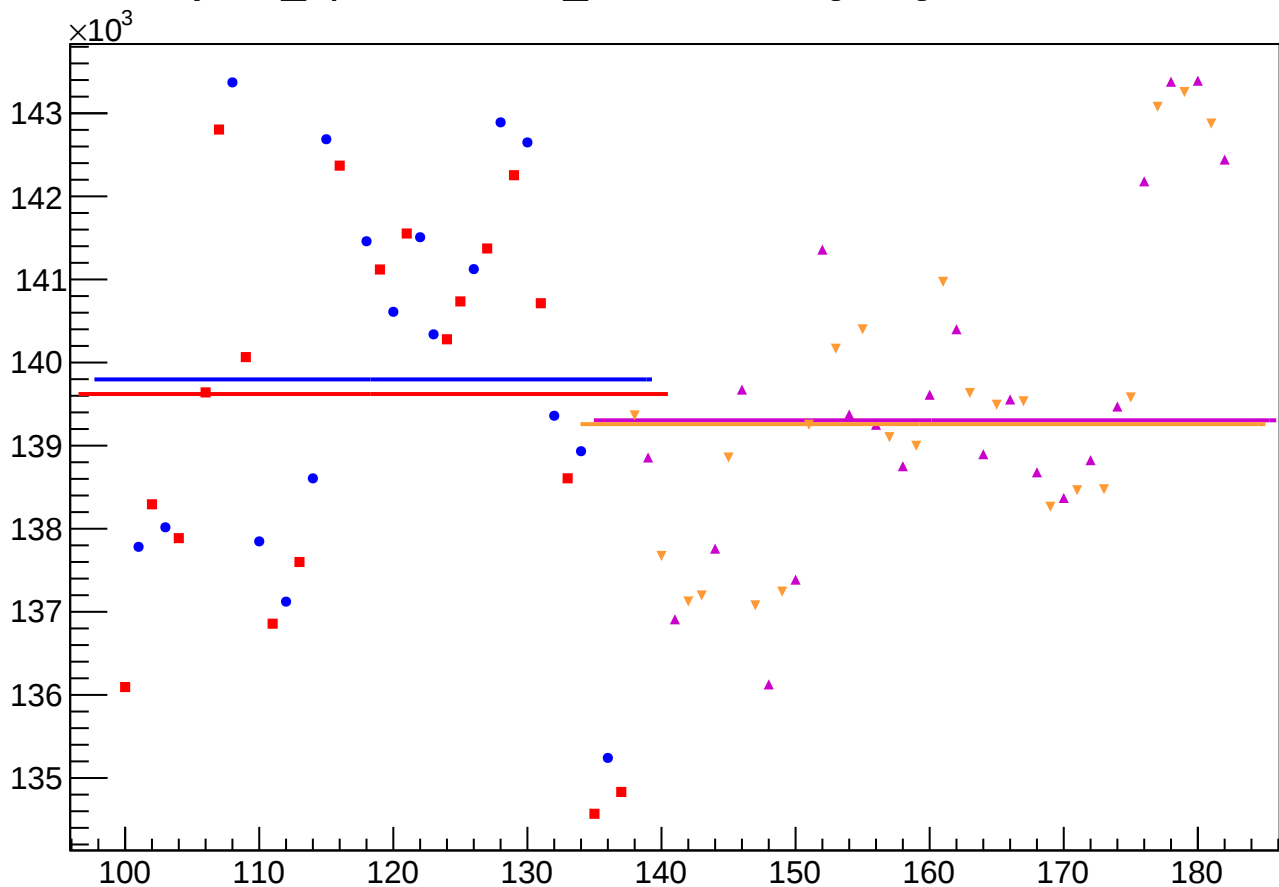
Right: 127.885+/-0.026 χ^2/NDF : 2816373.3/35

In: 171.093+/-0.026 χ^2/NDF : 4382401.0/38

Out: 164.678+/-0.025 χ^2/NDF : 4568536.1/41

All: 167.721+/-0.018 χ^2/NDF : 8981974.0/80

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139796.979 $\pm$ 0.062

χ^2 /NDF: 1668151198.8/16

Left: 139281.223 $\pm$ 0.036

χ^2 /NDF: 2338832091.1/4

Left Out: 139258.762 $\pm$ 0.050

χ^2 /NDF: 1090987821.9/22

Right: 139704.736 $\pm$ 0.043

χ^2 /NDF: 3176880475.6/4

Right Out: 139621.197 $\pm$ 0.059

χ^2 /NDF: 1504518858.4/18

In: 139503.570 $\pm$ 0.039

χ^2 /NDF: 2953074941.6/38

Out: 139409.451 $\pm$ 0.038

χ^2 /NDF: 2617510578.5/4

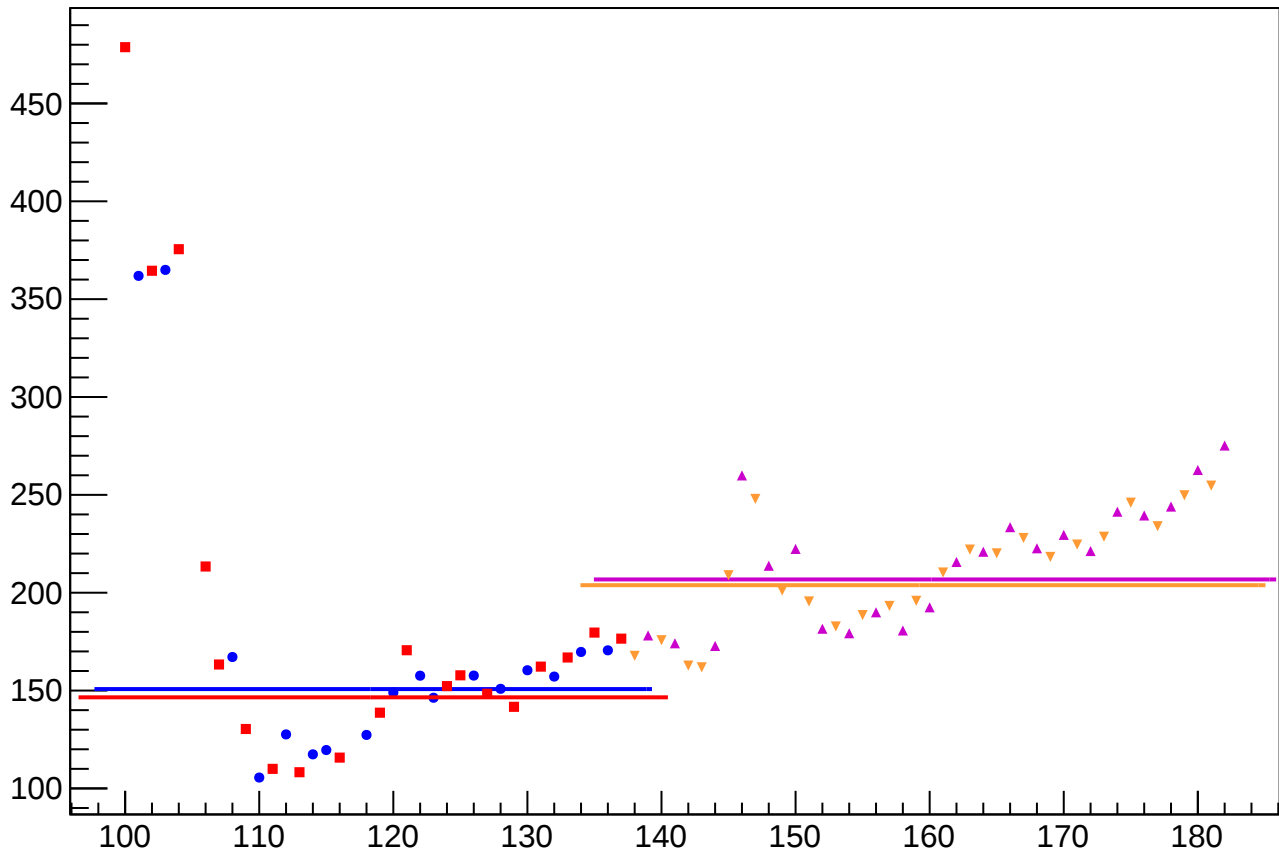
Left In: 139304.829 $\pm$ 0.051

χ^2 /NDF: 1247427397.1/21

All: 139454.866 $\pm$ 0.027

χ^2 /NDF: 557353318.4/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.766 $\pm$ 0.044 χ^2 /NDF: 1050110.5/16

Left Out: 203.847 $\pm$ 0.035 χ^2 /NDF: 599801.3/22

Right Out: 146.546 $\pm$ 0.042 χ^2 /NDF: 1200776.5/18

Left In: 206.779 $\pm$ 0.036 χ^2 /NDF: 668026.5/21

Left: 205.276 $\pm$ 0.025 χ^2 /NDF: 1271205.2/44

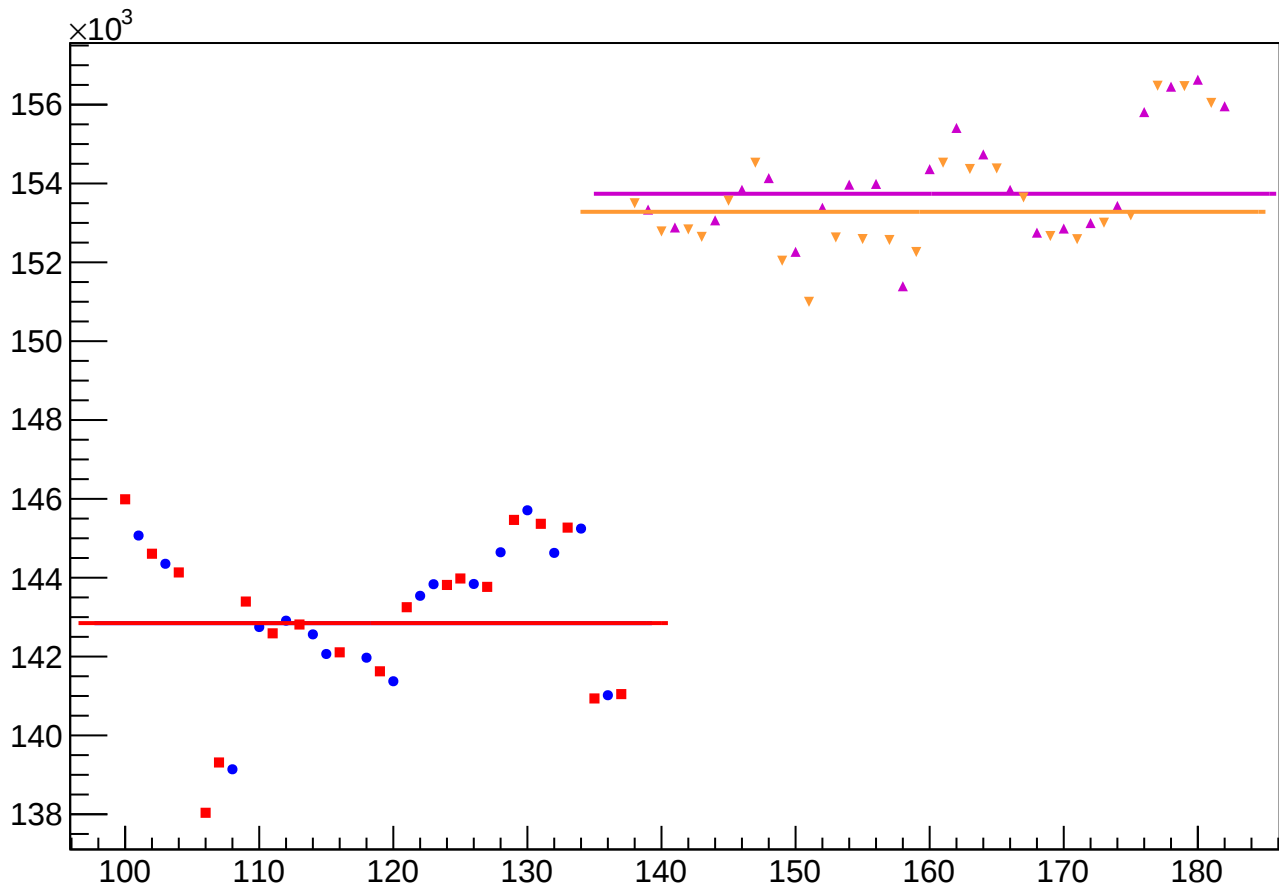
Right: 148.551 $\pm$ 0.030 χ^2 /NDF: 2255741.1/35

In: 184.159 $\pm$ 0.028 χ^2 /NDF: 2689529.4/38

Out: 180.023 $\pm$ 0.027 χ^2 /NDF: 2900585.1/41

All: 182.019 $\pm$ 0.019 χ^2 /NDF: 5601502.9/80

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142846.769+/-0.065

χ^2/NDF : 735751313.8/16

Left Out: 153281.609+/-0.050

χ^2/NDF : 663826850.6/22

Right Out: 142848.653+/-0.060

χ^2/NDF : 849741852.9/18

Left In: 153739.220+/-0.052

χ^2/NDF : 613455129.4/21

Left: 153504.638+/-0.036

χ^2/NDF : 1317462339.7/4

Right: 142847.777+/-0.044

χ^2/NDF : 1585493619.2/4

In: 149502.496+/-0.040

χ^2/NDF : 18622644529.6/3

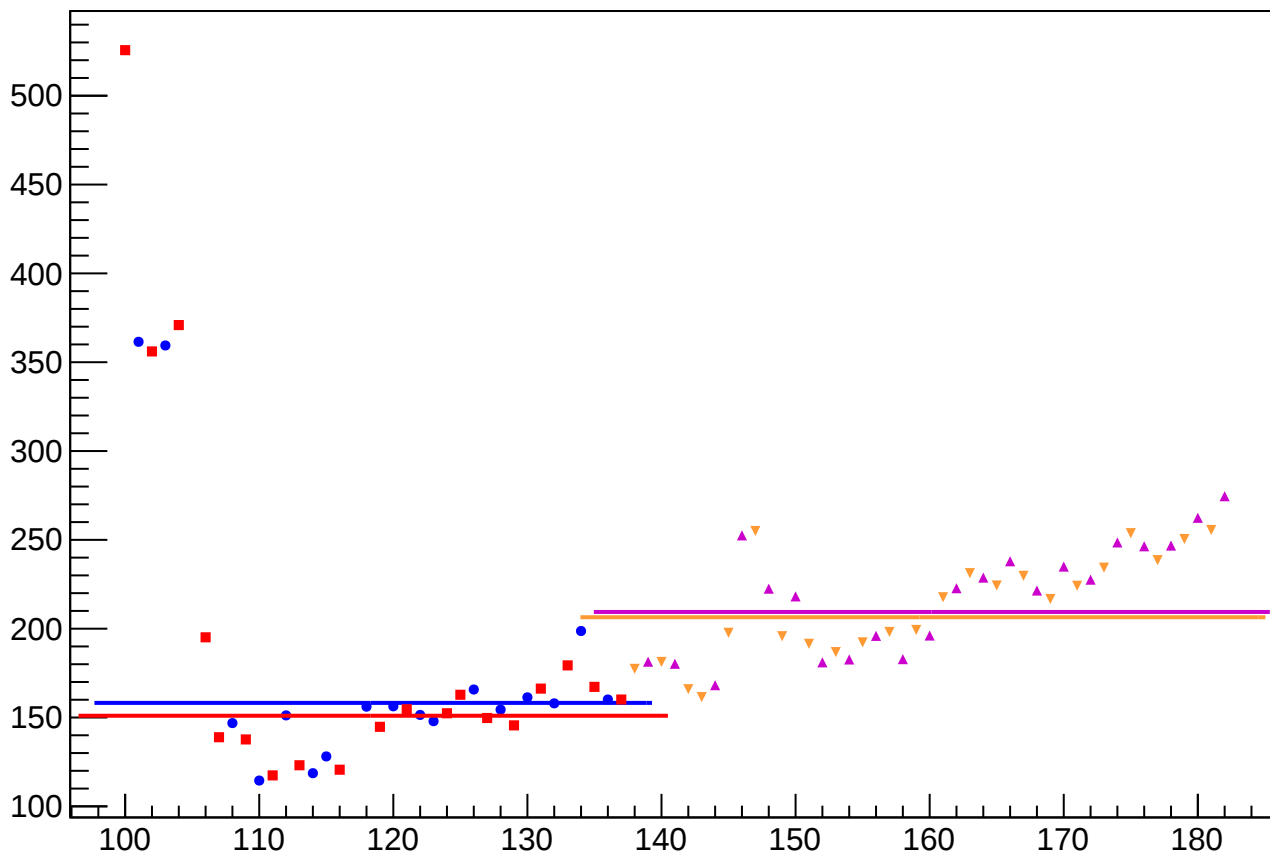
Out: 149000.321+/-0.039

χ^2/NDF : 19098378581.5/3

All: 149240.599+/-0.028

χ^2/NDF : 378015868.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.235+/-0.046 χ^2/NDF : 883619.5/16

Left Out: 206.446+/-0.036 χ^2/NDF : 592304.4/22

Right Out: 150.999+/-0.043 χ^2/NDF : 1000583.6/18

Left In: 209.413+/-0.037 χ^2/NDF : 671048.2/21

Left: 207.892+/-0.026 χ^2/NDF : 1266730.9/44

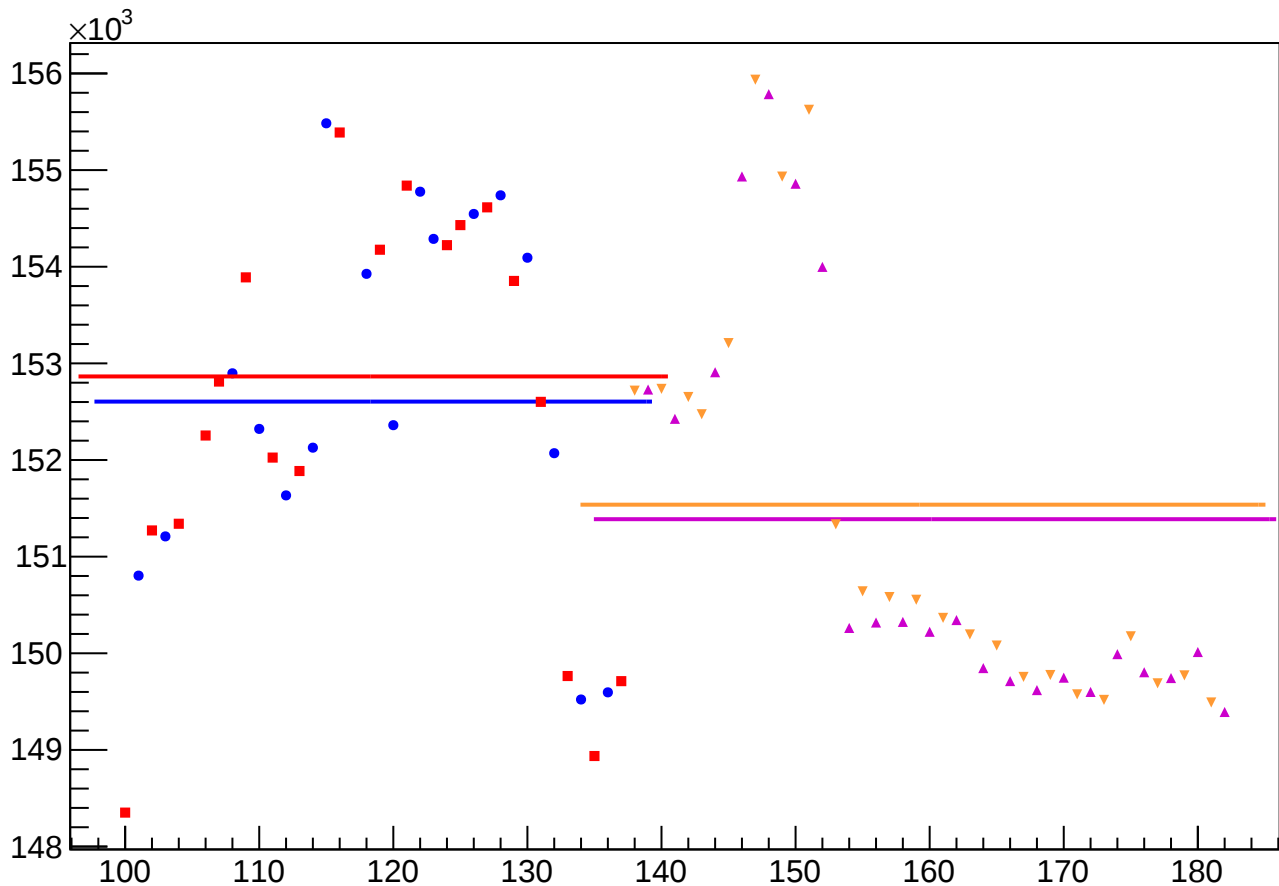
Right: 154.365+/-0.031 χ^2/NDF : 1897545.9/35

In: 189.507+/-0.029 χ^2/NDF : 2317339.1/38

Out: 183.693+/-0.027 χ^2/NDF : 2586254.2/41

All: 186.475+/-0.020 χ^2/NDF : 4925190.2/80

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152604.406 $\pm$ 0.072 χ^2 /NDF: 616818062.6/16

Left Out: 151537.761 $\pm$ 0.050 χ^2 /NDF: 1427954595.0/22

Right Out: 152864.722 $\pm$ 0.066 χ^2 /NDF: 718455566.6/18

Left In: 151387.580 $\pm$ 0.052 χ^2 /NDF: 1398800430.9/21

Left: 151464.437 $\pm$ 0.036 χ^2 /NDF: 2831081126.3/4

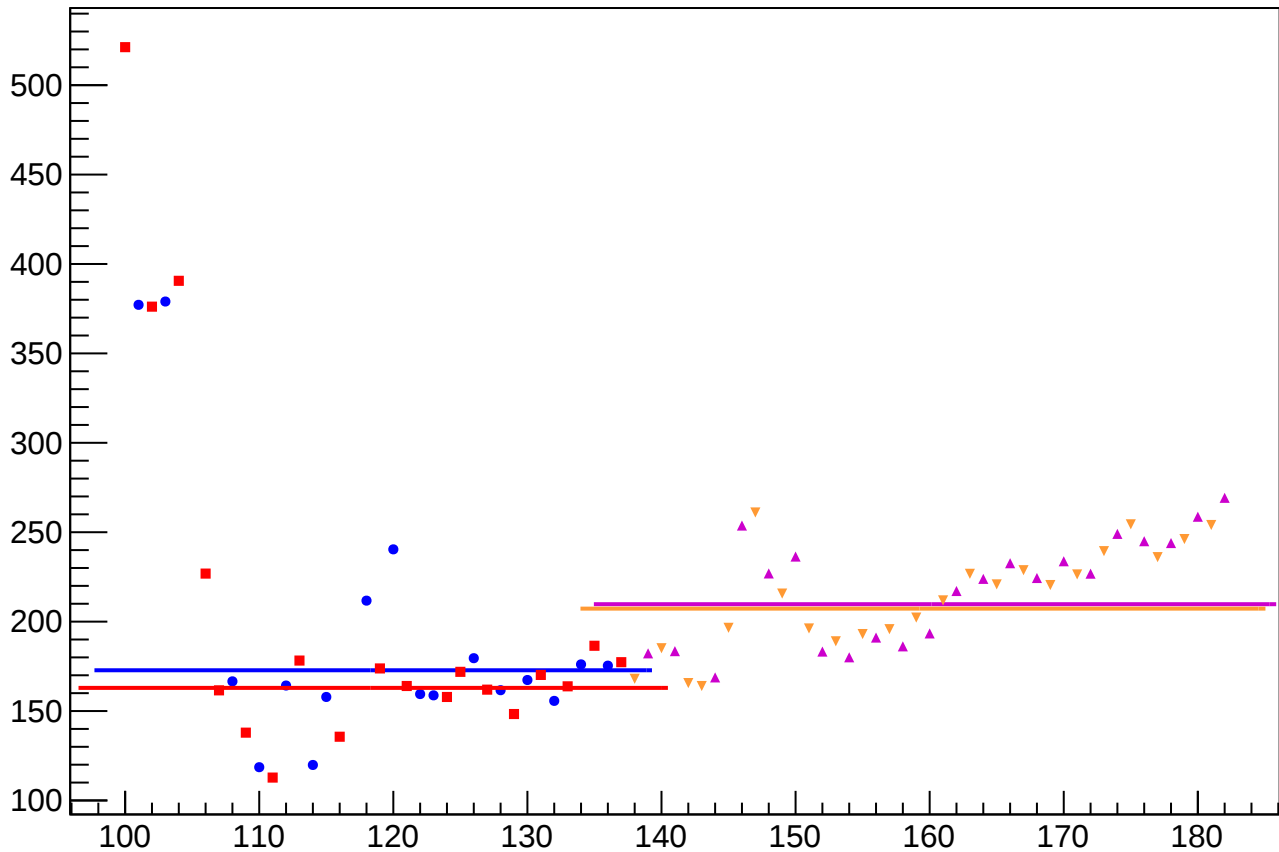
Right: 152745.876 $\pm$ 0.049 χ^2 /NDF: 1342324437.7/4

In: 151799.007 $\pm$ 0.042 χ^2 /NDF: 2203253319.2/38

Out: 152024.937 $\pm$ 0.040 χ^2 /NDF: 2400378224.3/4

All: 151917.160 $\pm$ 0.029 χ^2 /NDF: 461874720.0/4

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.803 $\pm$ 0.051 χ^2 /NDF: 945652.6/16

Left Out: 207.274 $\pm$ 0.036 χ^2 /NDF: 596858.9/22

Right Out: 162.951 $\pm$ 0.047 χ^2 /NDF: 1032146.9/18

Left In: 209.751 $\pm$ 0.037 χ^2 /NDF: 650663.7/21

Left: 208.483 $\pm$ 0.026 χ^2 /NDF: 1249875.2/44

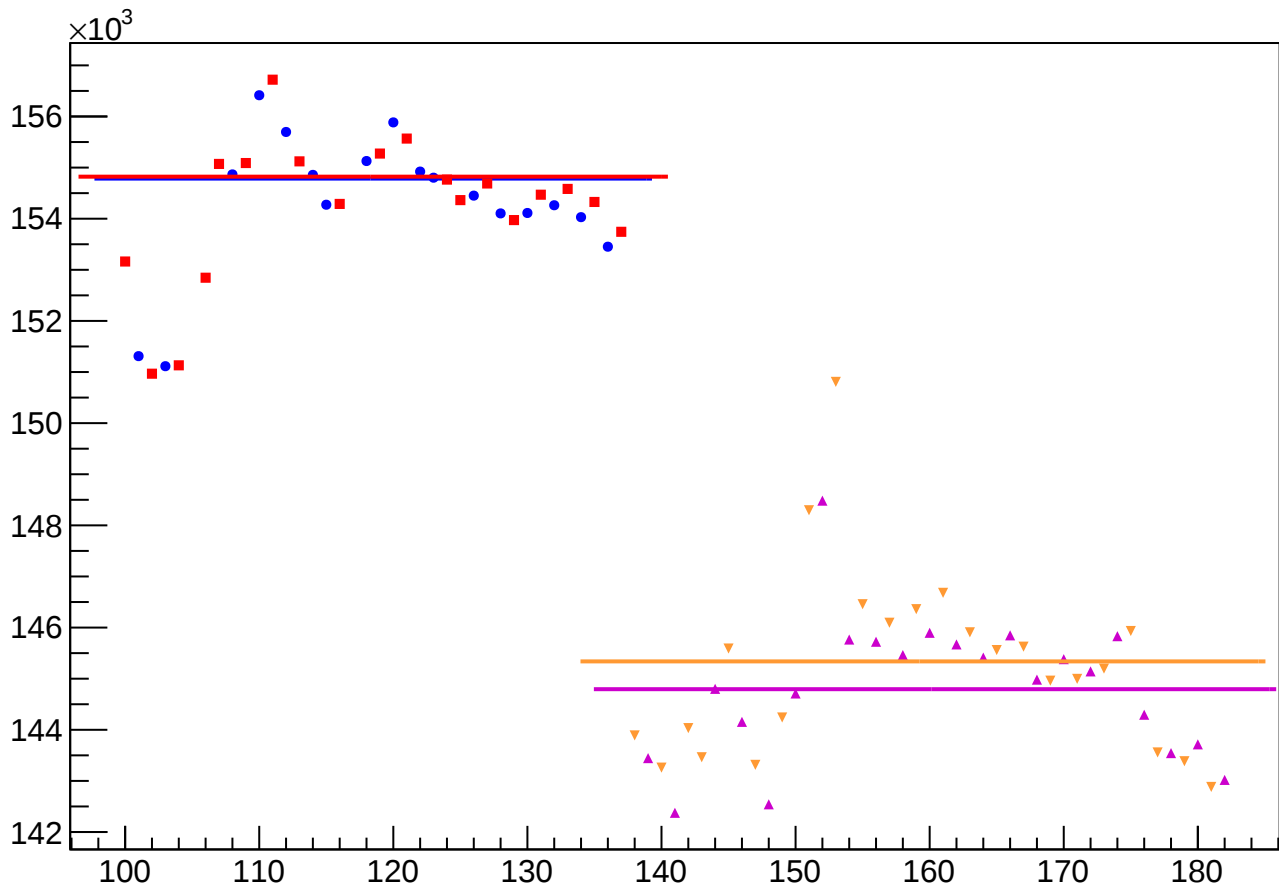
Right: 167.449 $\pm$ 0.035 χ^2 /NDF: 1997996.2/35

In: 197.258 $\pm$ 0.030 χ^2 /NDF: 1942304.1/38

Out: 191.002 $\pm$ 0.028 χ^2 /NDF: 2195698.9/41

All: 193.986 $\pm$ 0.021 χ^2 /NDF: 4161185.5/80

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154784.970 $\pm$ 0.065 χ^2 /NDF: 265445259.7/16

Left Out: 145338.389 $\pm$ 0.048 χ^2 /NDF: 1646023673.5/22

Right Out: 154822.442 $\pm$ 0.061 χ^2 /NDF: 293784821.8/18

Left In: 144794.639 $\pm$ 0.050 χ^2 /NDF: 900864564.9/21

Left: 145075.435 $\pm$ 0.035 χ^2 /NDF: 2608546621.6/4

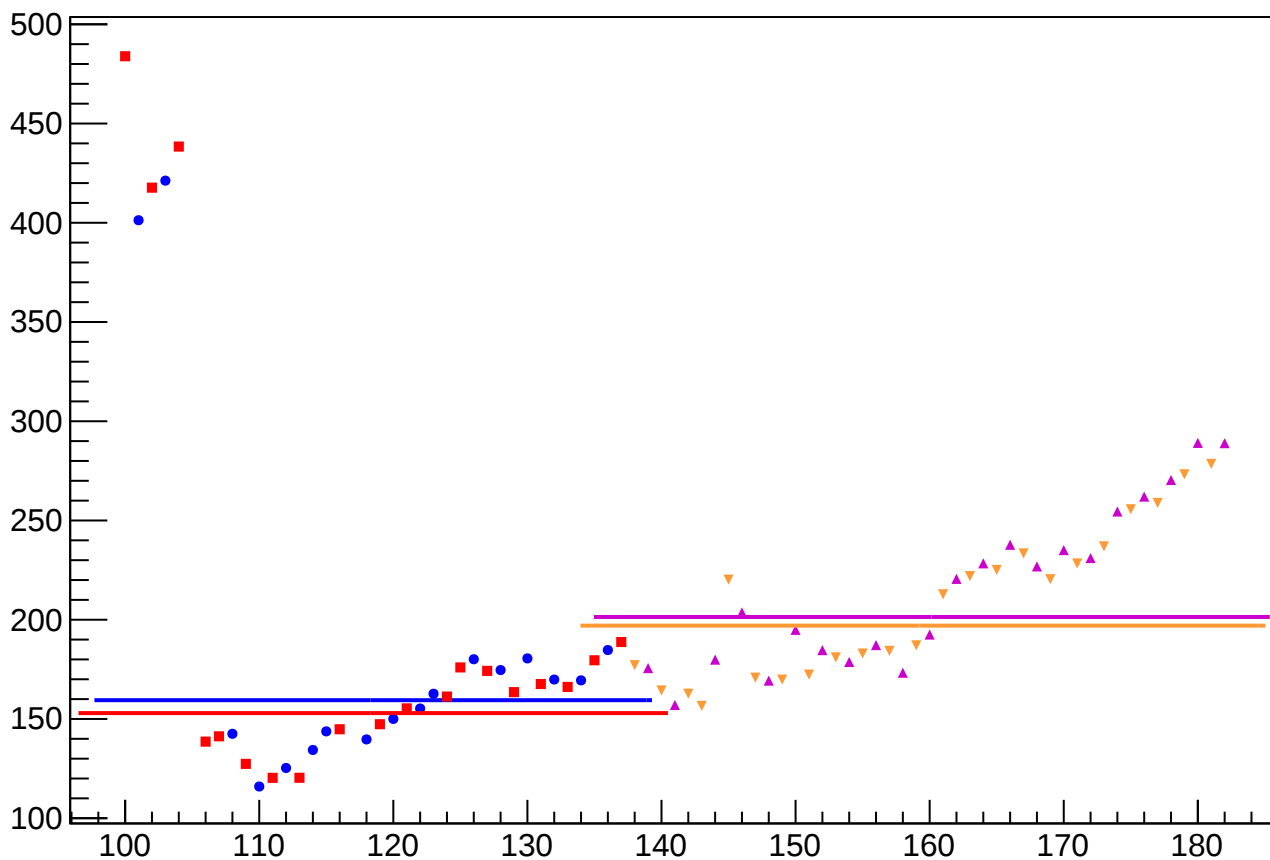
Right: 154805.060 $\pm$ 0.045 χ^2 /NDF: 559405704.7/3

In: 148452.575 $\pm$ 0.040 χ^2 /NDF: 15923995912.7/3

Out: 148986.974 $\pm$ 0.038 χ^2 /NDF: 16861924662.5

All: 148732.505 $\pm$ 0.027 χ^2 /NDF: 328812285

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.460 $\pm$ 0.046 χ^2 /NDF: 1131650.0/16

Left Out: 197.025 $\pm$ 0.034 χ^2 /NDF: 973106.3/22

Right Out: 152.961 $\pm$ 0.043 χ^2 /NDF: 1169783.0/18

Left In: 201.390 $\pm$ 0.035 χ^2 /NDF: 1008988.8/21

Left: 199.136 $\pm$ 0.024 χ^2 /NDF: 1990040.3/44

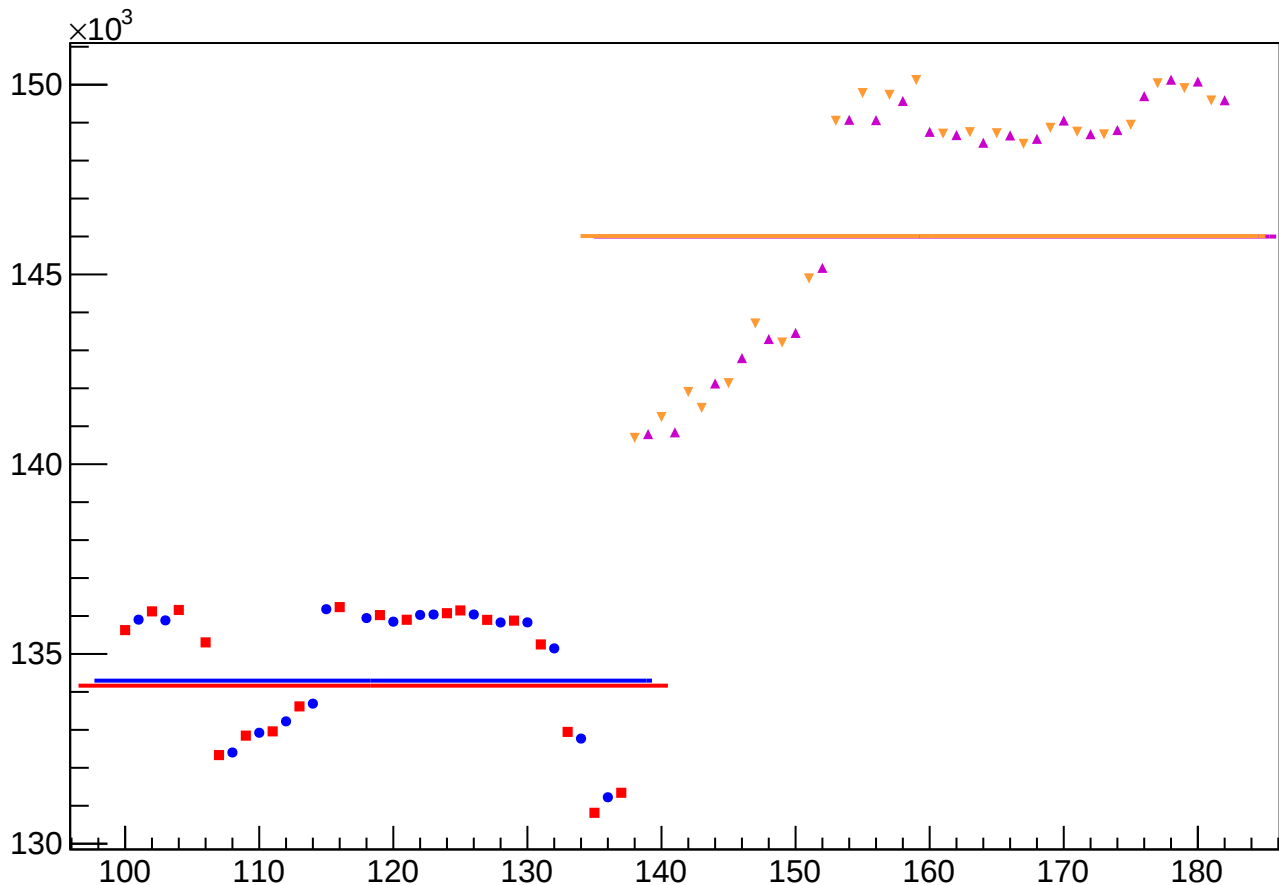
Right: 155.976 $\pm$ 0.032 χ^2 /NDF: 2311995.9/35

In: 186.037 $\pm$ 0.028 χ^2 /NDF: 2660560.3/38

Out: 180.073 $\pm$ 0.027 χ^2 /NDF: 2787112.2/41

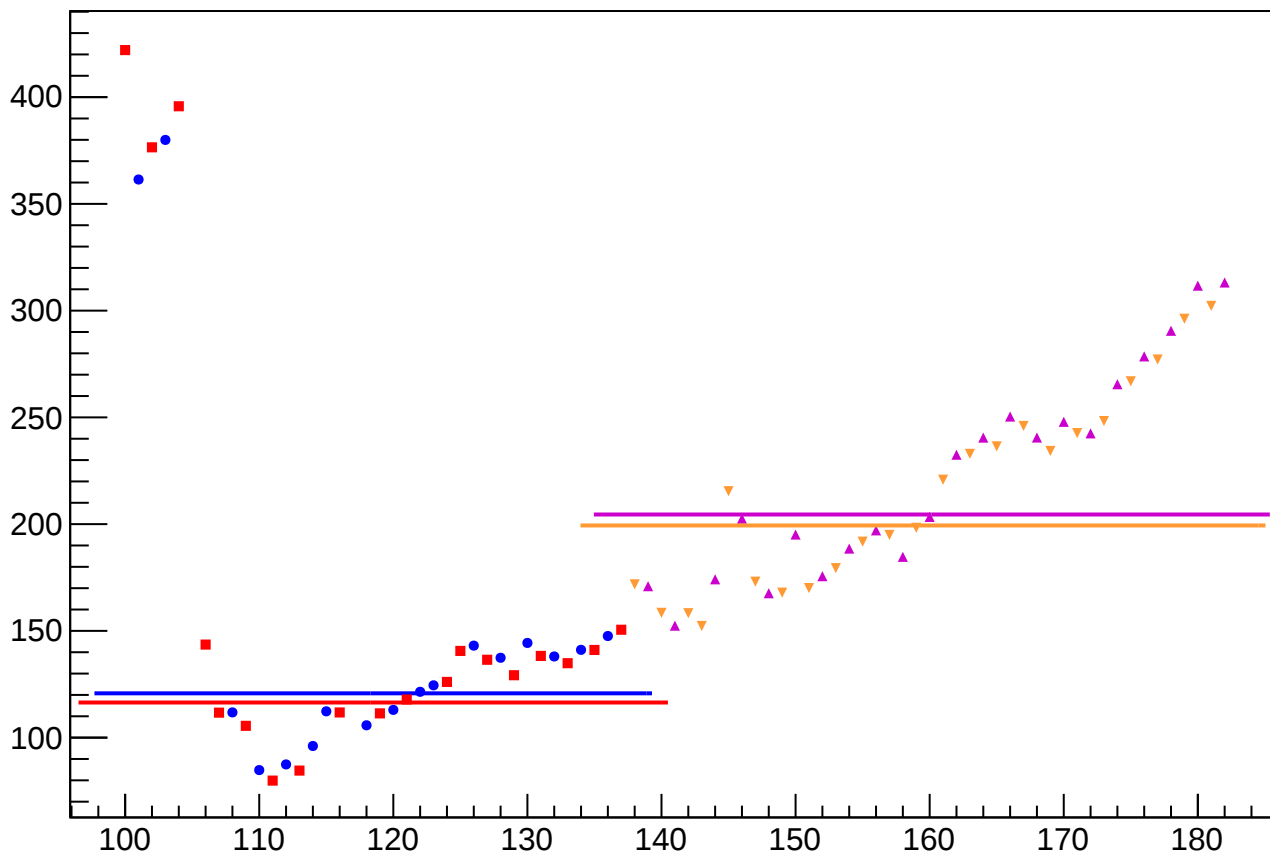
All: 182.913 $\pm$ 0.019 χ^2 /NDF: 5471410.9/80

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134297.022 $\pm$ 0.050 χ^2 /NDF: 1147567257.7/16
 Left Out: 146011.703 $\pm$ 0.049 χ^2 /NDF: 5223576339.5/22
 Right Out: 134164.594 $\pm$ 0.047 χ^2 /NDF: 1210514088.0/18
 Left In: 145998.544 $\pm$ 0.051 χ^2 /NDF: 4566570517.4/21
 Left: 146005.363 $\pm$ 0.035 χ^2 /NDF: 9790181576.0/4
 Right: 134226.757 $\pm$ 0.035 χ^2 /NDF: 2361744877.8/3
 In: 140097.168 $\pm$ 0.036 χ^2 /NDF: 32435765880.0/3
 Out: 139889.777 $\pm$ 0.034 χ^2 /NDF: 36619103317.1
 All: 139988.386 $\pm$ 0.025 χ^2 /NDF: 690724817.1

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.752 $\pm$ 0.036 χ^2 /NDF: 1465247.5/16

Left Out: 199.379 $\pm$ 0.035 χ^2 /NDF:1347203.8/22

Right Out: 116.453 $\pm$ 0.034 χ^2 /NDF: 1535612.1/18

Left In: 204.510 $\pm$ 0.036 χ^2 /NDF:1360273.5/21

Left: 201.851 $\pm$ 0.025 χ^2 /NDF: 2718034.6/44

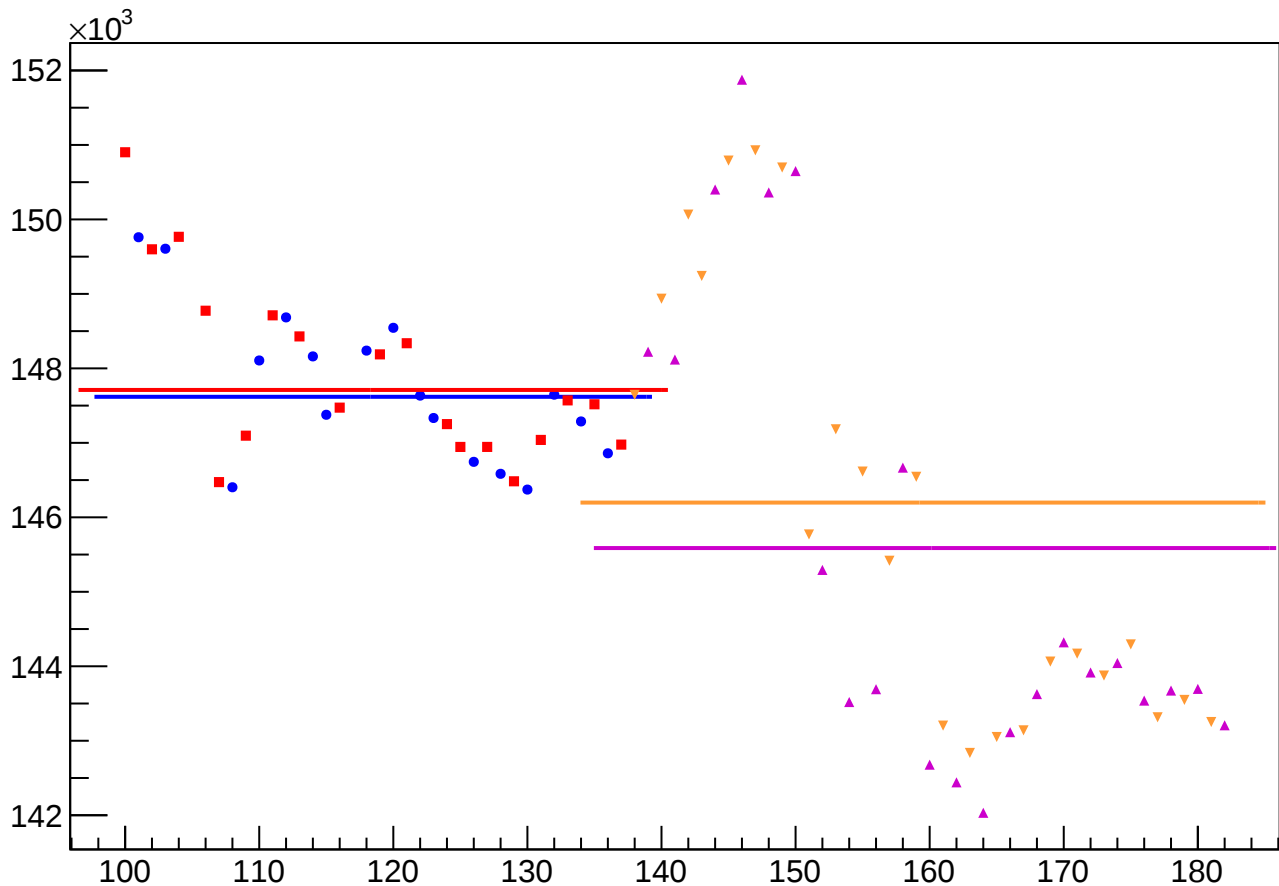
Right: 118.471 $\pm$ 0.024 χ^2 /NDF: 3008583.2/35

In: 162.269 $\pm$ 0.025 χ^2 /NDF:5563666.7/38

Out: 156.527 $\pm$ 0.024 χ^2 /NDF:5840707.9/41

All: 159.257 $\pm$ 0.017 χ^2 /NDF: 11431371.0/80

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147618.243 $\pm$ 0.063

χ^2/NDF : 198581777.1/16

Left Out: 146198.057 $\pm$ 0.052

χ^2/NDF : 2589804200.8/22

Right Out: 147710.334 $\pm$ 0.058

χ^2/NDF : 203714451.2/18

Left In: 145587.328 $\pm$ 0.053

χ^2/NDF : 3030113543.8/21

Left: 145901.792 $\pm$ 0.037

χ^2/NDF : 5687504498.7/4

Right: 147667.515 $\pm$ 0.043

χ^2/NDF : 403454683.7/3

In: 146441.218 $\pm$ 0.041

χ^2/NDF : 3838985388.0/38

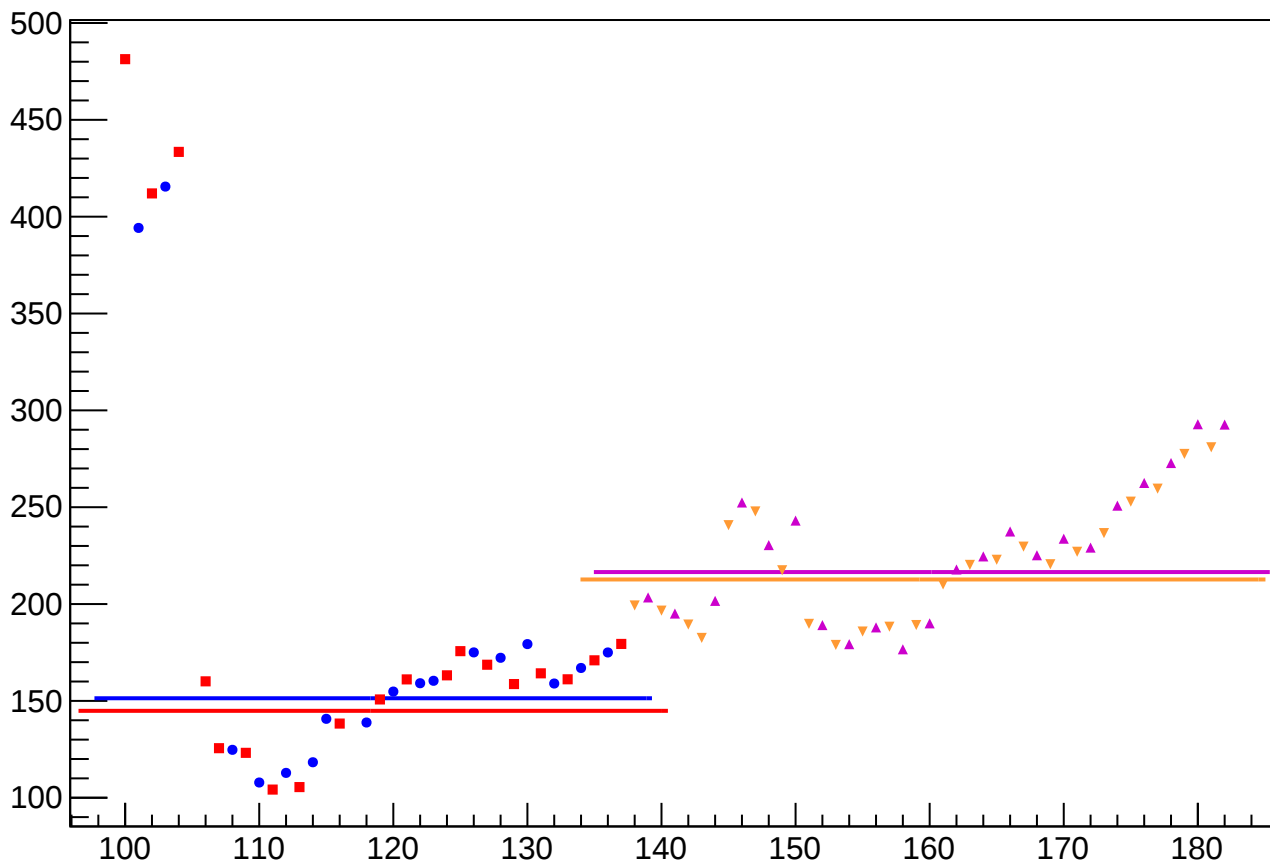
Out: 146863.831 $\pm$ 0.039

χ^2/NDF : 3169607072.5/4

All: 146662.488 $\pm$ 0.028

χ^2/NDF : 706537488

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.363+/-0.044 χ^2/NDF : 1259788.8/16

Left Out: 212.690+/-0.037 χ^2/NDF : 589887.6/22

Right Out: 144.870+/-0.041 χ^2/NDF : 1371292.3/18

Left In: 216.516+/-0.038 χ^2/NDF : 727536.1/21

Left: 214.546+/-0.026 χ^2/NDF : 1322728.7/44

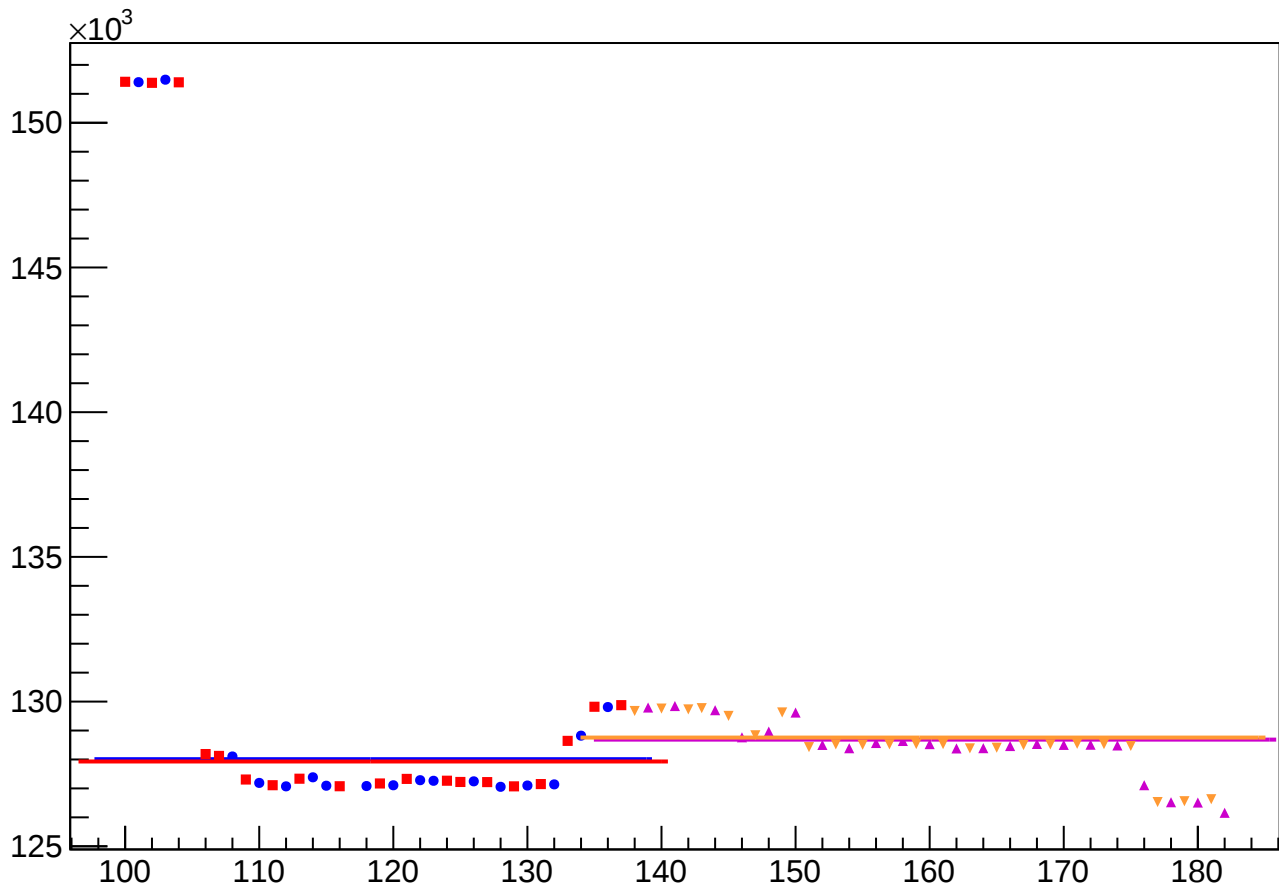
Right: 147.889+/-0.030 χ^2/NDF : 2642598.4/35

In: 189.122+/-0.029 χ^2/NDF : 3243519.3/38

Out: 182.832+/-0.027 χ^2/NDF : 3473962.7/41

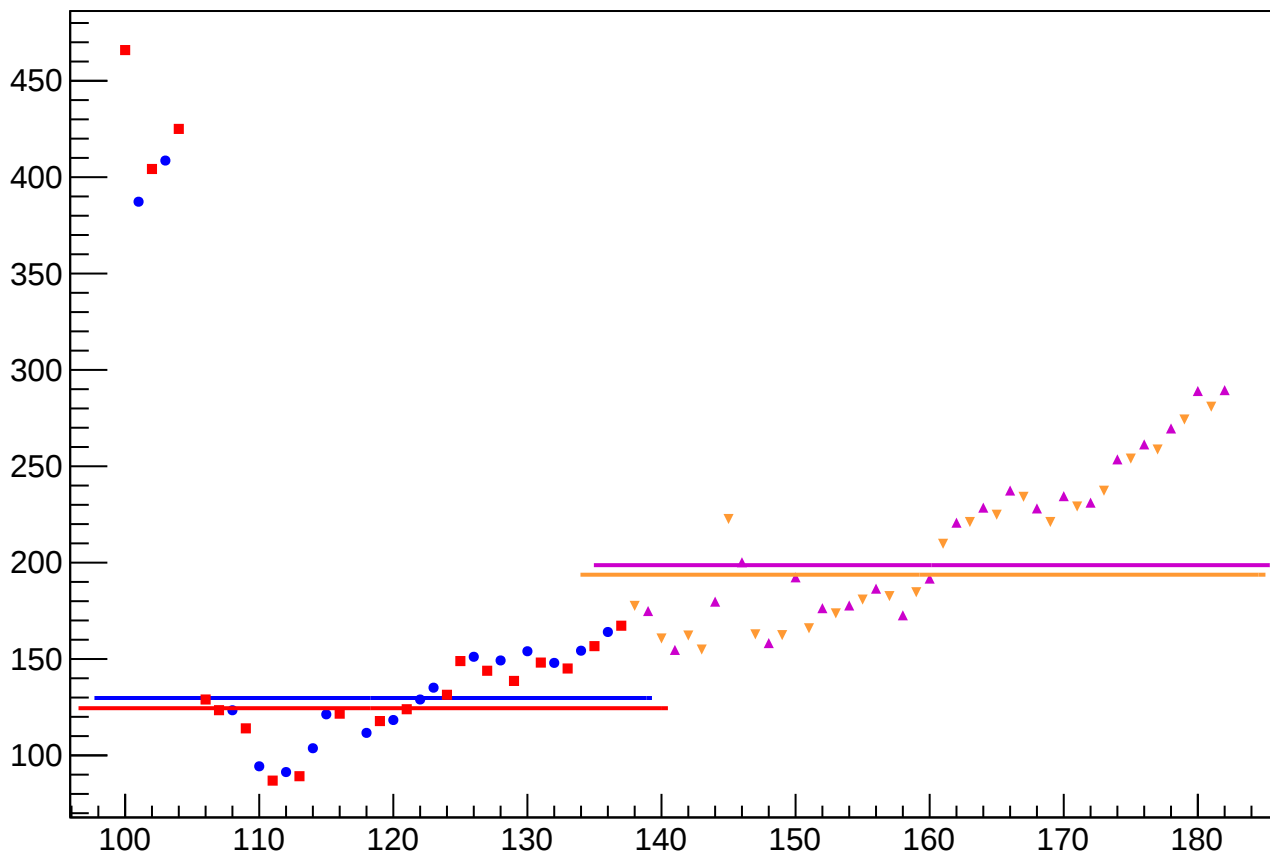
All: 185.829+/-0.020 χ^2/NDF : 6742640.1/80

yield_bpm2i01WS_mean vs Slug, Sign Corrected

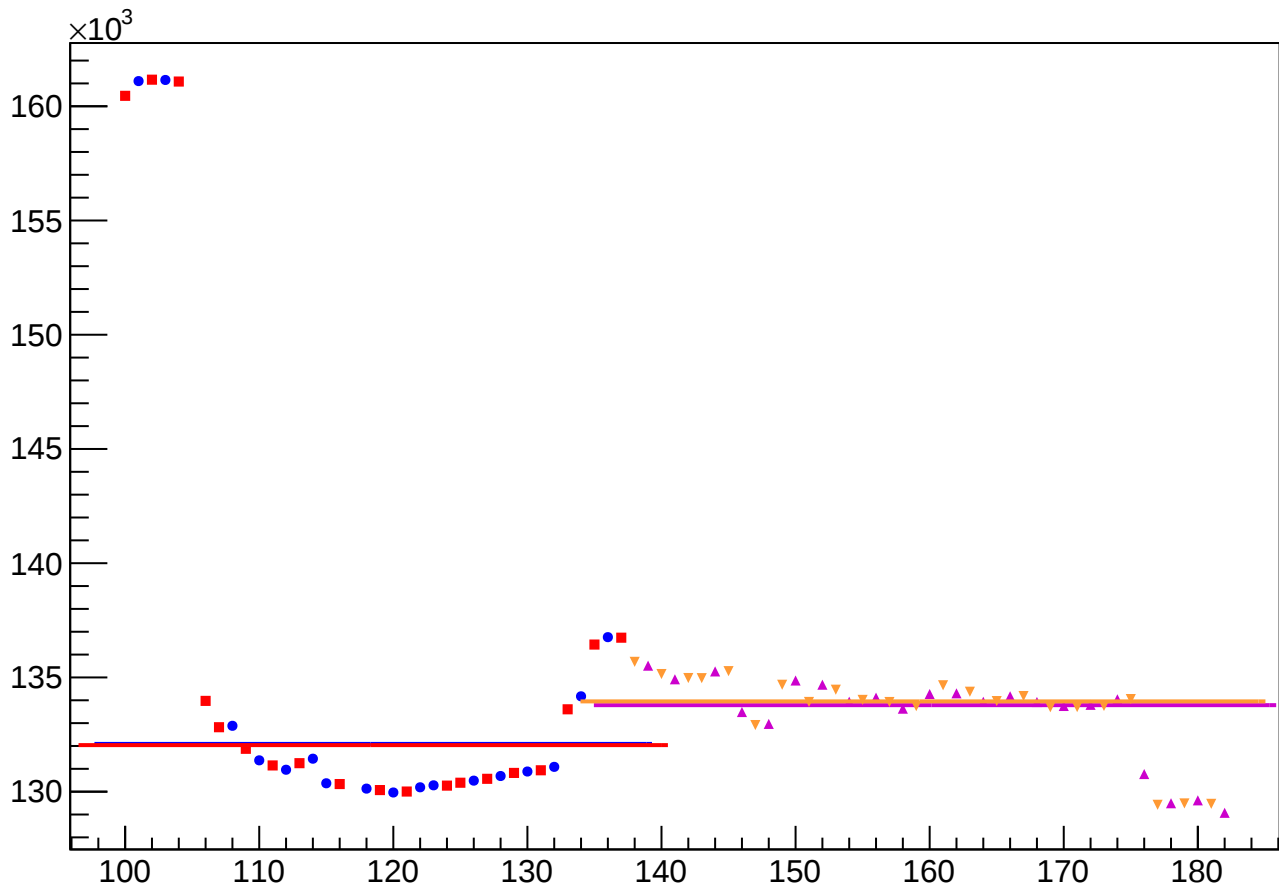


Right In: 128009.906 $\pm$ 0.054 χ^2 /NDF: 4319099803.8/16
 Left Out: 128756.684 $\pm$ 0.047 χ^2 /NDF: 296125738.8/22
 Right Out: 127930.465 $\pm$ 0.050 χ^2 /NDF: 3768075163.1/18
 Left In: 128685.920 $\pm$ 0.049 χ^2 /NDF: 313894736.5/21
 Left: 128722.596 $\pm$ 0.034 χ^2 /NDF: 611093397.8/4
 Right: 127967.286 $\pm$ 0.037 χ^2 /NDF: 8088326902.9/
 In: 128380.733 $\pm$ 0.036 χ^2 /NDF: 4718285199.2/3
 Out: 128368.692 $\pm$ 0.035 χ^2 /NDF: 4206785686.3/4
 All: 128374.391 $\pm$ 0.025 χ^2 /NDF: 892512843

yield_bpm2i01WS_rms vs Slug, Sign Corrected



yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132090.159+/-0.057

χ^2/NDF : 6731961368.4/16

Left: 133872.069+/-0.035

χ^2/NDF : 1768815174.7/4

Right: 132062.178+/-0.039

χ^2/NDF : 12614215233.7/16

Left Out: 133951.723+/-0.049

χ^2/NDF : 875128260.2/22

Right Out: 132038.077+/-0.053

χ^2/NDF : 5881799125.4/18

In: 133031.245+/-0.038

χ^2/NDF : 8118367187.9/38

Out: 133061.698+/-0.036

χ^2/NDF : 7466591028.8/4

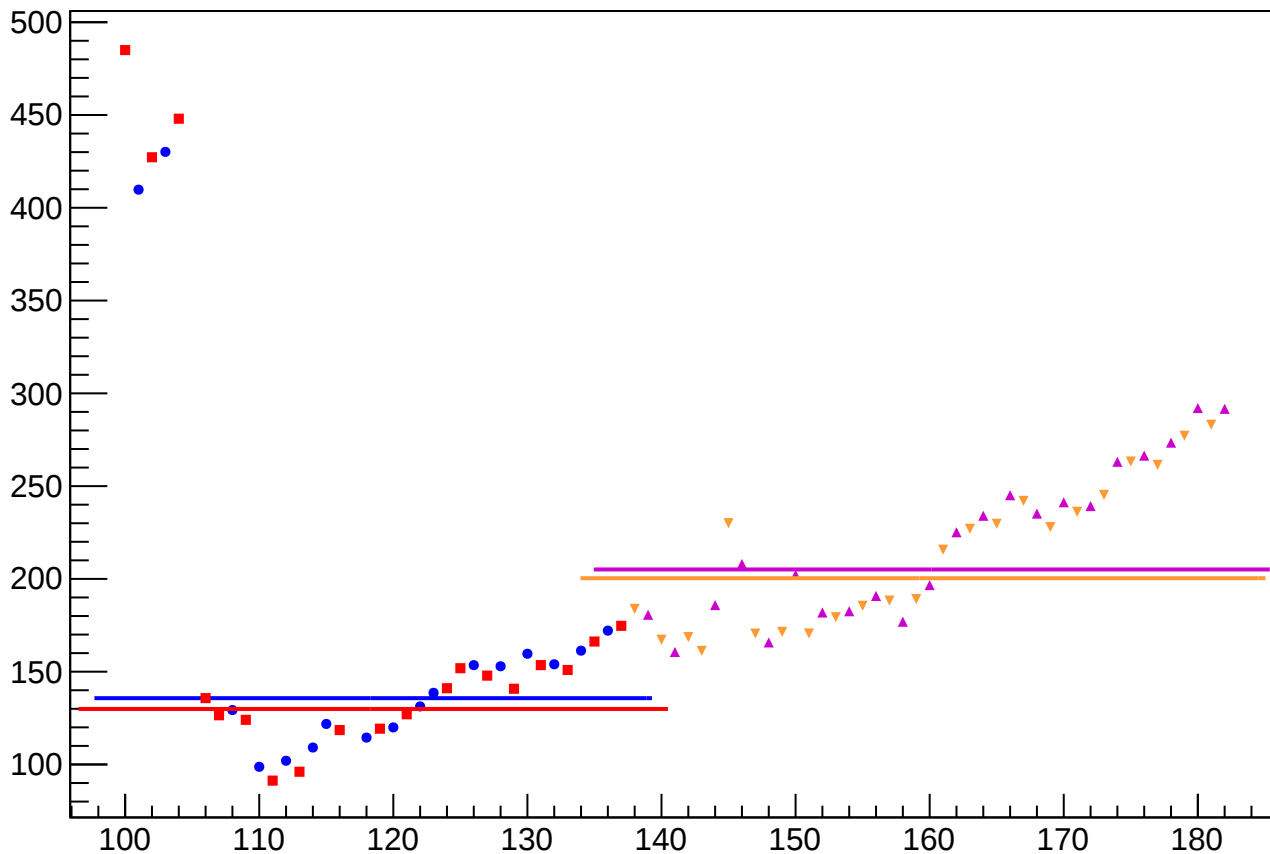
Left In: 133786.689+/-0.051

χ^2/NDF : 888209557.2/21

All: 133047.276+/-0.026

χ^2/NDF : 155853003.7/16

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.730 $\pm$ 0.040 χ^2 /NDF: 1442560.7/16

Left Out: 200.381 $\pm$ 0.035 χ^2 /NDF:1030272.8/22

Right Out: 129.912 $\pm$ 0.037 χ^2 /NDF: 1498757.6/18

Left In: 205.093 $\pm$ 0.036 χ^2 /NDF:1045330.3/21

Left: 202.655 $\pm$ 0.025 χ^2 /NDF: 2084532.9/44

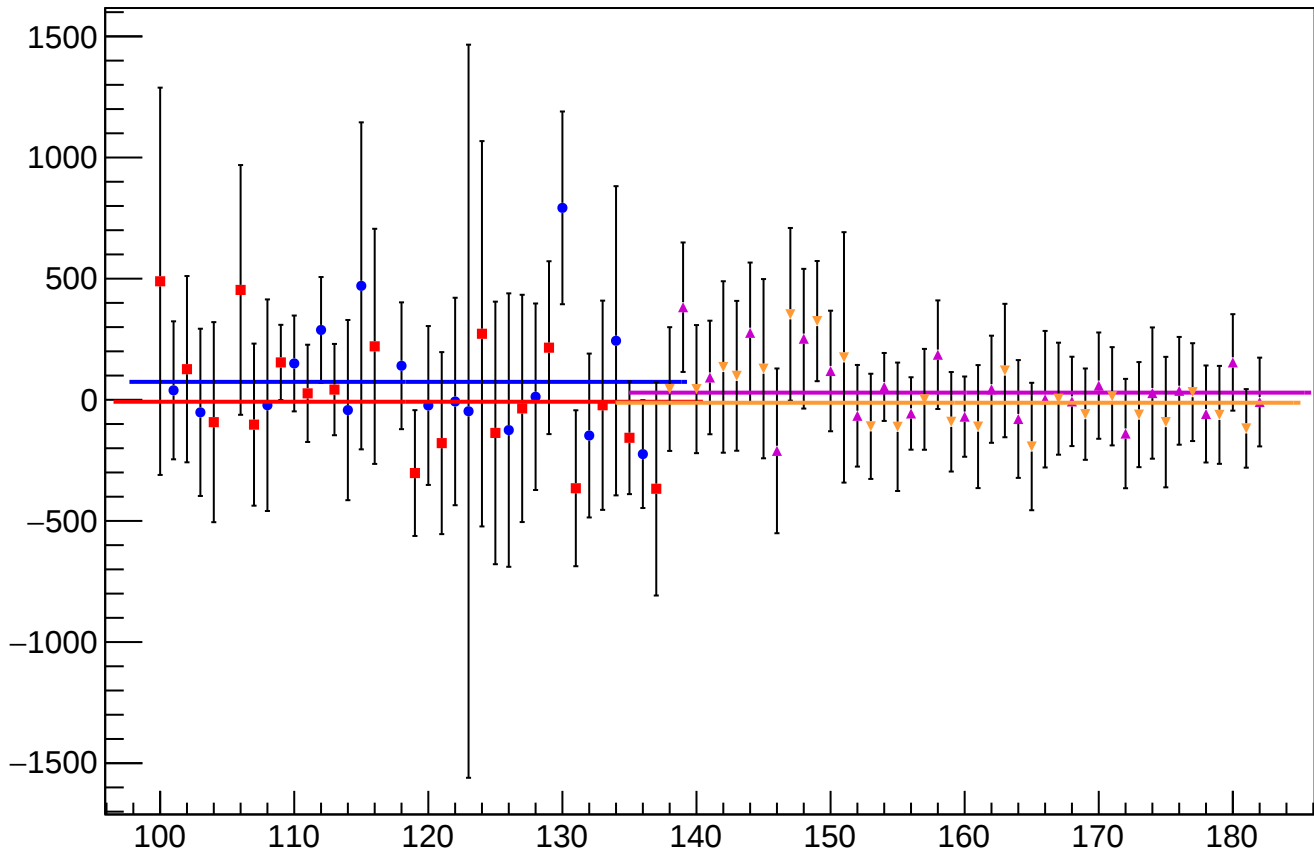
Right: 132.605 $\pm$ 0.027 χ^2 /NDF: 2952668.5/35

In: 174.207 $\pm$ 0.027 χ^2 /NDF:4153451.3/38

Out: 167.607 $\pm$ 0.025 χ^2 /NDF:4453703.1/41

All: 170.732 $\pm$ 0.018 χ^2 /NDF: 8639295.0/80

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.036 $\pm$ 79.233 χ^2 /NDF: 7.6/16

Left Out: -12.168 $\pm$ 49.881 χ^2 /NDF:5.7/22

Right Out: -8.046 $\pm$ 70.080 χ^2 /NDF: 7.2/18

Left In: 29.521 $\pm$ 45.213 χ^2 /NDF:6.6/21

Left: 10.718 $\pm$ 33.499 χ^2 /NDF: 12.7/44

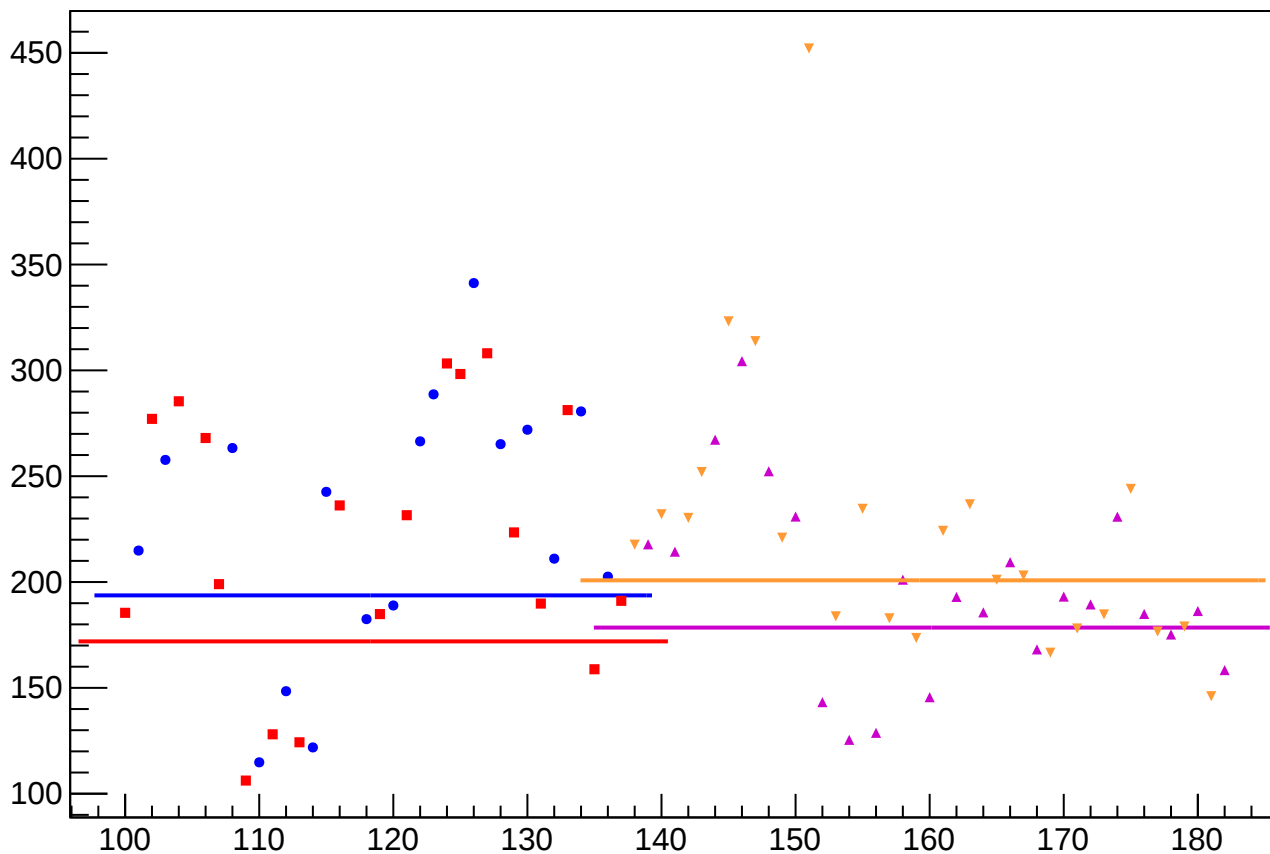
Right: 27.982 $\pm$ 52.493 χ^2 /NDF: 15.5/35

In: 40.456 $\pm$ 39.269 χ^2 /NDF:14.5/38

Out: -10.782 $\pm$ 40.638 χ^2 /NDF:12.9/41

All: 15.714 $\pm$ 28.239 χ^2 /NDF: 28.2/80

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.695 $\pm$ 0.056 χ^2 /NDF: 1018039.6/16

Left Out: 200.807 $\pm$ 0.035 χ^2 /NDF:1590334.3/22

Right Out: 171.963 $\pm$ 0.050 χ^2 /NDF: 1574387.3/18

Left In: 178.481 $\pm$ 0.032 χ^2 /NDF:1593035.1/21

Left: 188.551 $\pm$ 0.024 χ^2 /NDF: 3403329.3/44

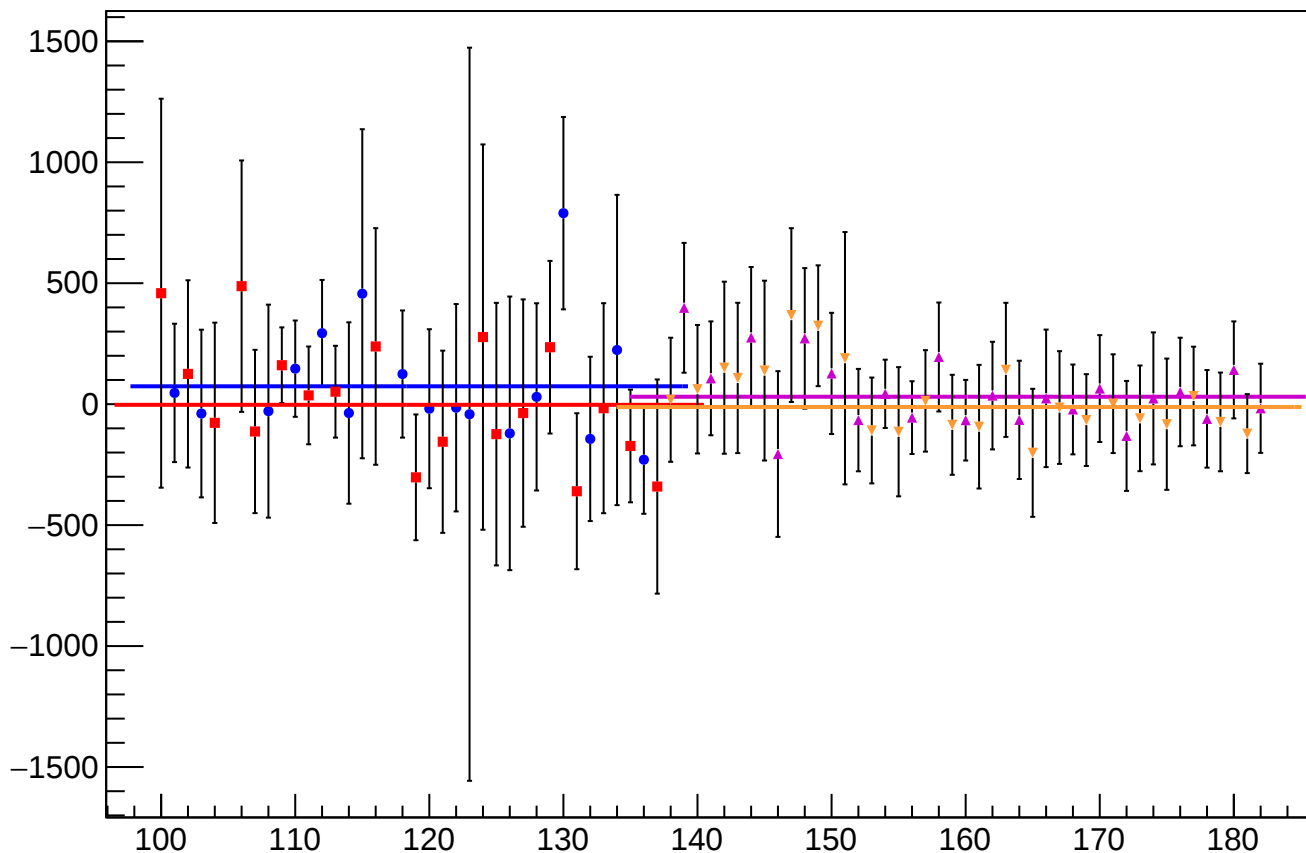
Right: 181.502 $\pm$ 0.037 χ^2 /NDF: 2676847.4/35

In: 182.218 $\pm$ 0.028 χ^2 /NDF:2666702.6/38

Out: 191.108 $\pm$ 0.029 χ^2 /NDF:3389608.5/41

All: 186.511 $\pm$ 0.020 χ^2 /NDF: 6105804.1/80

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 73.822 $\pm$ 79.620 χ^2 /NDF: 7.5/16

Left Out: -11.865 $\pm$ 50.229 χ^2 /NDF: 5.9/22

Right Out: -2.721 $\pm$ 70.450 χ^2 /NDF: 7.4/18

Left In: 30.642 $\pm$ 45.507 χ^2 /NDF: 6.8/21

Left: 11.480 $\pm$ 33.725 χ^2 /NDF: 13.1/44

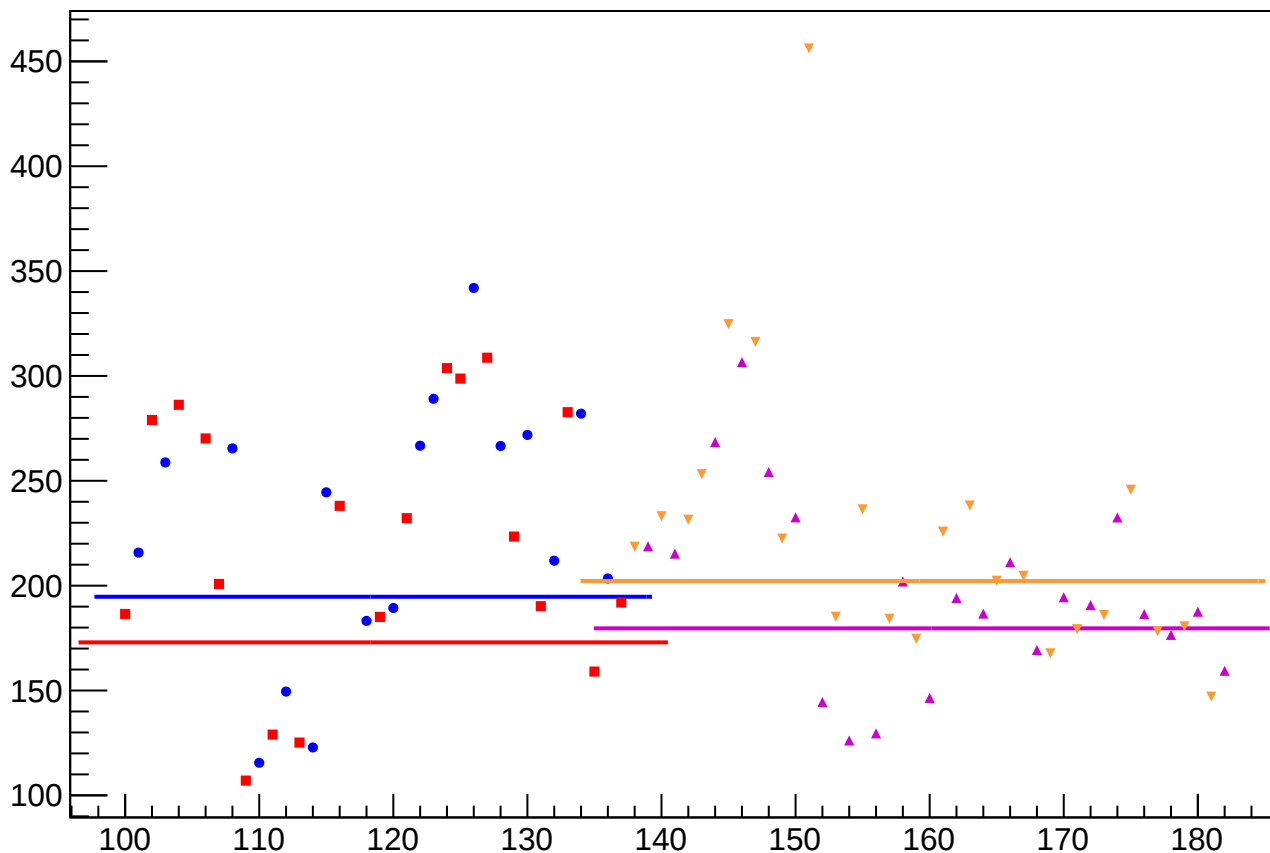
Right: 30.891 $\pm$ 52.761 χ^2 /NDF: 15.5/35

In: 41.274 $\pm$ 39.509 χ^2 /NDF: 14.5/38

Out: -8.783 $\pm$ 40.898 χ^2 /NDF: 13.3/41

All: 17.110 $\pm$ 28.416 χ^2 /NDF: 28.6/80

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.704 $\pm$ 0.056 χ^2 /NDF: 1009606.0/16

Left Out: 202.213 $\pm$ 0.036 χ^2 /NDF: 1586399.9/22

Right Out: 172.953 $\pm$ 0.050 χ^2 /NDF: 1562179.1/18

Left In: 179.639 $\pm$ 0.032 χ^2 /NDF: 1592456.0/21

Left: 189.816 $\pm$ 0.024 χ^2 /NDF: 3400710.8/44

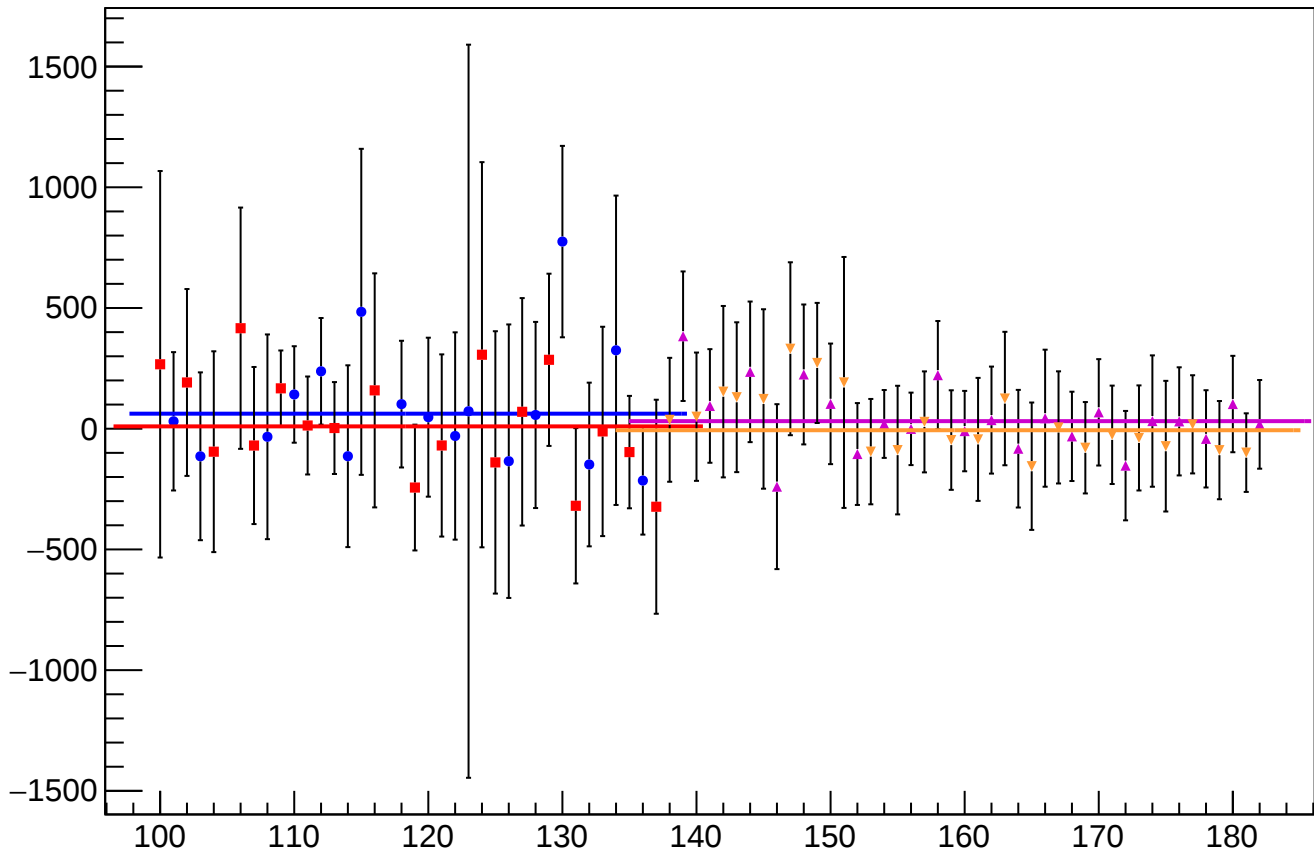
Right: 182.505 $\pm$ 0.037 χ^2 /NDF: 2655502.8/35

In: 183.349 $\pm$ 0.028 χ^2 /NDF: 2656032.4/38

Out: 192.352 $\pm$ 0.029 χ^2 /NDF: 3377310.2/41

All: 187.695 $\pm$ 0.020 χ^2 /NDF: 6083477.6/80

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 62.284 ± 79.616 $\chi^2/\text{NDF}: 7.2/16$

Left Out: -6.260 ± 50.104 $\chi^2/\text{NDF}: 4.5/22$

Right Out: 9.662 ± 70.372 $\chi^2/\text{NDF}: 5.9/18$

Left In: 31.353 ± 45.386 $\chi^2/\text{NDF}: 6.0/21$

Left: 14.400 ± 33.638 $\chi^2/\text{NDF}: 10.8/44$

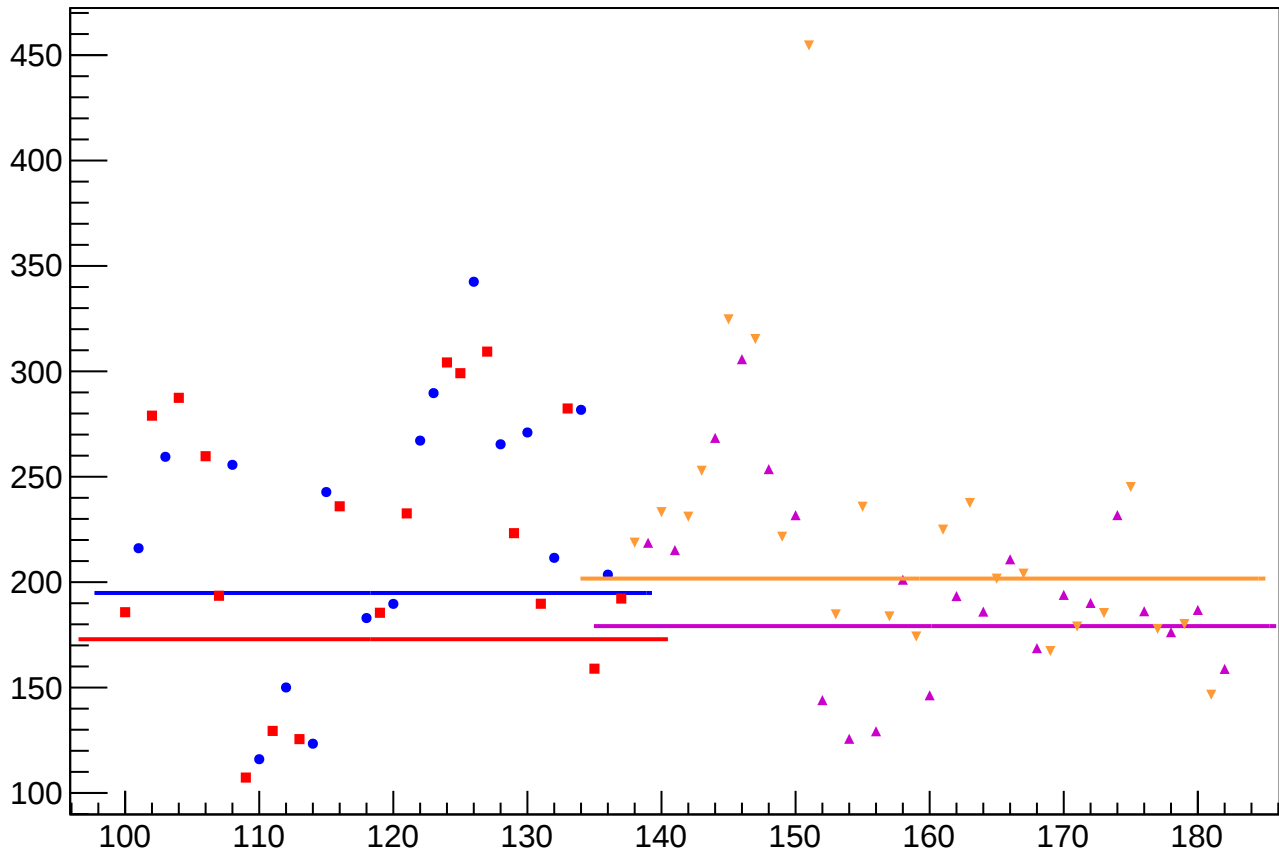
Right: 32.742 ± 52.727 $\chi^2/\text{NDF}: 13.3/35$

In: 38.939 ± 39.430 $\chi^2/\text{NDF}: 13.3/38$

Out: -0.904 ± 40.816 $\chi^2/\text{NDF}: 10.4/41$

All: 19.706 ± 28.358 $\chi^2/\text{NDF}: 24.2/80$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.868 $\pm$ 0.056 χ^2 /NDF: 987545.2/16

Left Out: 201.701 $\pm$ 0.035 χ^2 /NDF:1590046.8/22

Right Out: 172.928 $\pm$ 0.050 χ^2 /NDF: 1539123.2/18

Left In: 179.155 $\pm$ 0.032 χ^2 /NDF:1596119.9/21

Left: 189.317 $\pm$ 0.024 χ^2 /NDF: 3408605.2/44

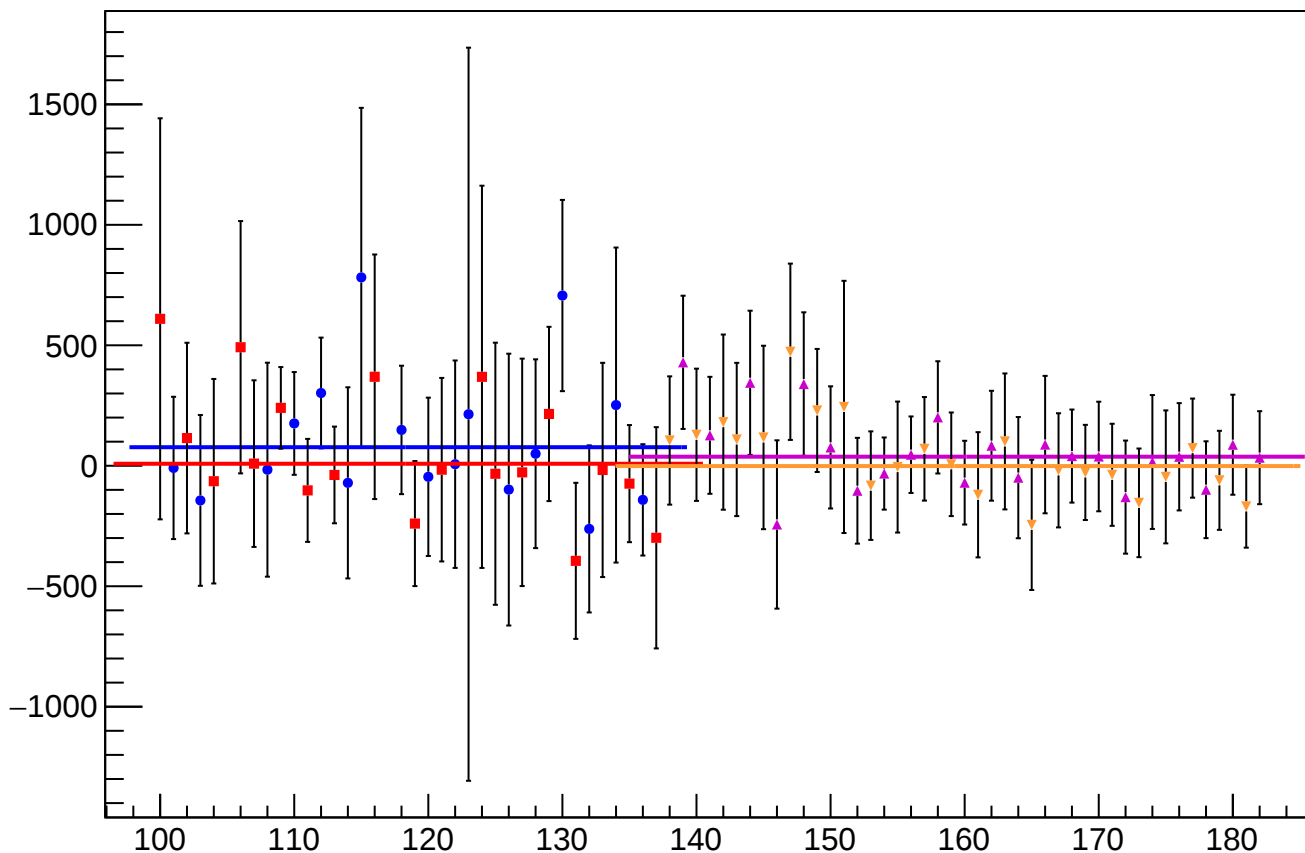
Right: 182.551 $\pm$ 0.037 χ^2 /NDF: 2611939.6/35

In: 183.009 $\pm$ 0.028 χ^2 /NDF:2642463.2/38

Out: 192.021 $\pm$ 0.029 χ^2 /NDF:3351046.2/41

All: 187.360 $\pm$ 0.020 χ^2 /NDF: 6043949.9/80

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 77.030 $\pm$ 82.098 χ^2 /NDF: 7.6/16

Left Out: -1.264 $\pm$ 51.589 χ^2 /NDF:6.7/22

Right Out: 8.365 $\pm$ 73.326 χ^2 /NDF: 7.8/18

Left In: 37.627 $\pm$ 47.012 χ^2 /NDF:7.6/21

Left: 19.983 $\pm$ 34.748 χ^2 /NDF: 14.6/44

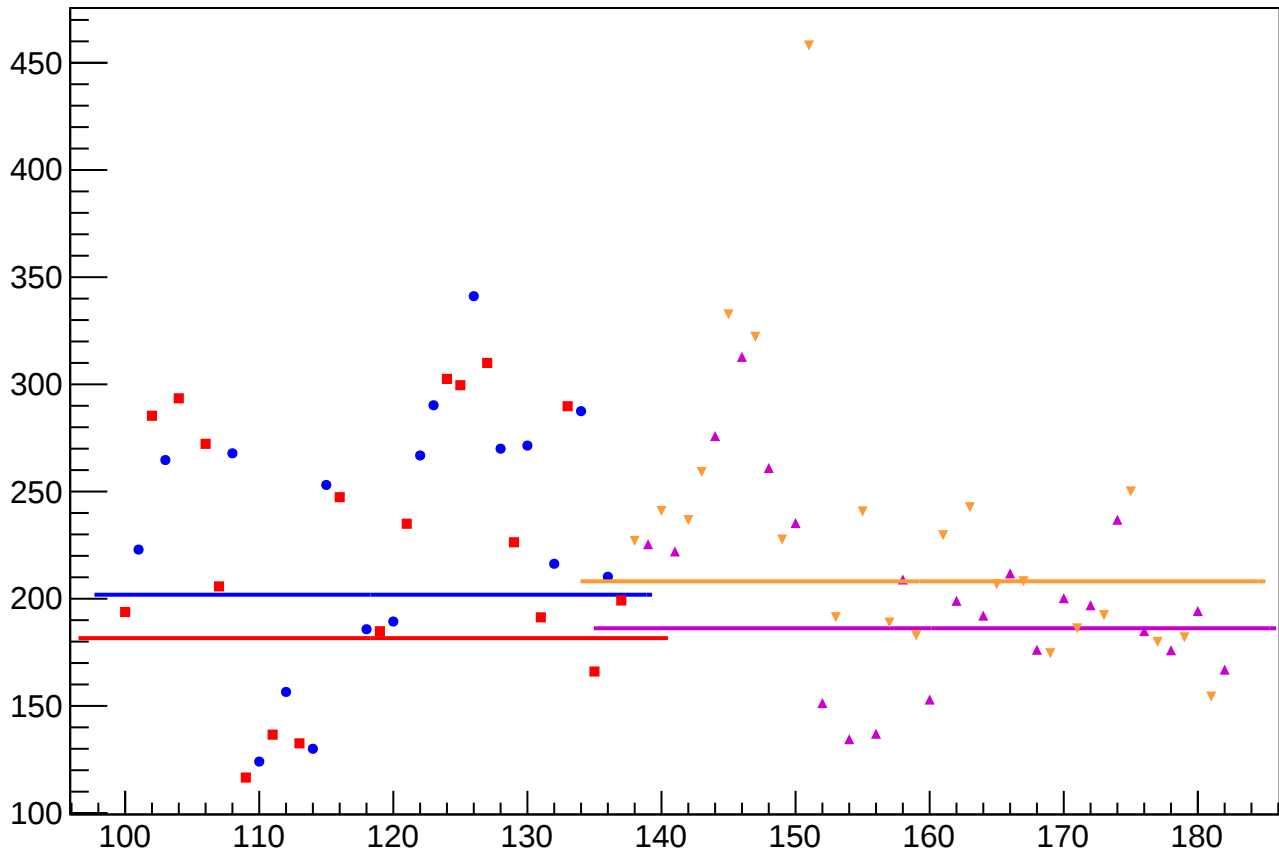
Right: 38.834 $\pm$ 54.689 χ^2 /NDF: 15.8/35

In: 47.357 $\pm$ 40.797 χ^2 /NDF:15.4/38

Out: 1.924 $\pm$ 42.193 χ^2 /NDF:14.4/41

All: 25.405 $\pm$ 29.329 χ^2 /NDF: 30.5/80

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.873 $\pm$ 0.058 χ^2 /NDF: 884412.3/16

Left Out: 208.117 $\pm$ 0.036 χ^2 /NDF:1508169.8/22

Right Out: 181.626 $\pm$ 0.052 χ^2 /NDF: 1373392.9/18

Left In: 186.223 $\pm$ 0.033 χ^2 /NDF:1436528.7/21

Left: 196.156 $\pm$ 0.025 χ^2 /NDF: 3141500.8/44

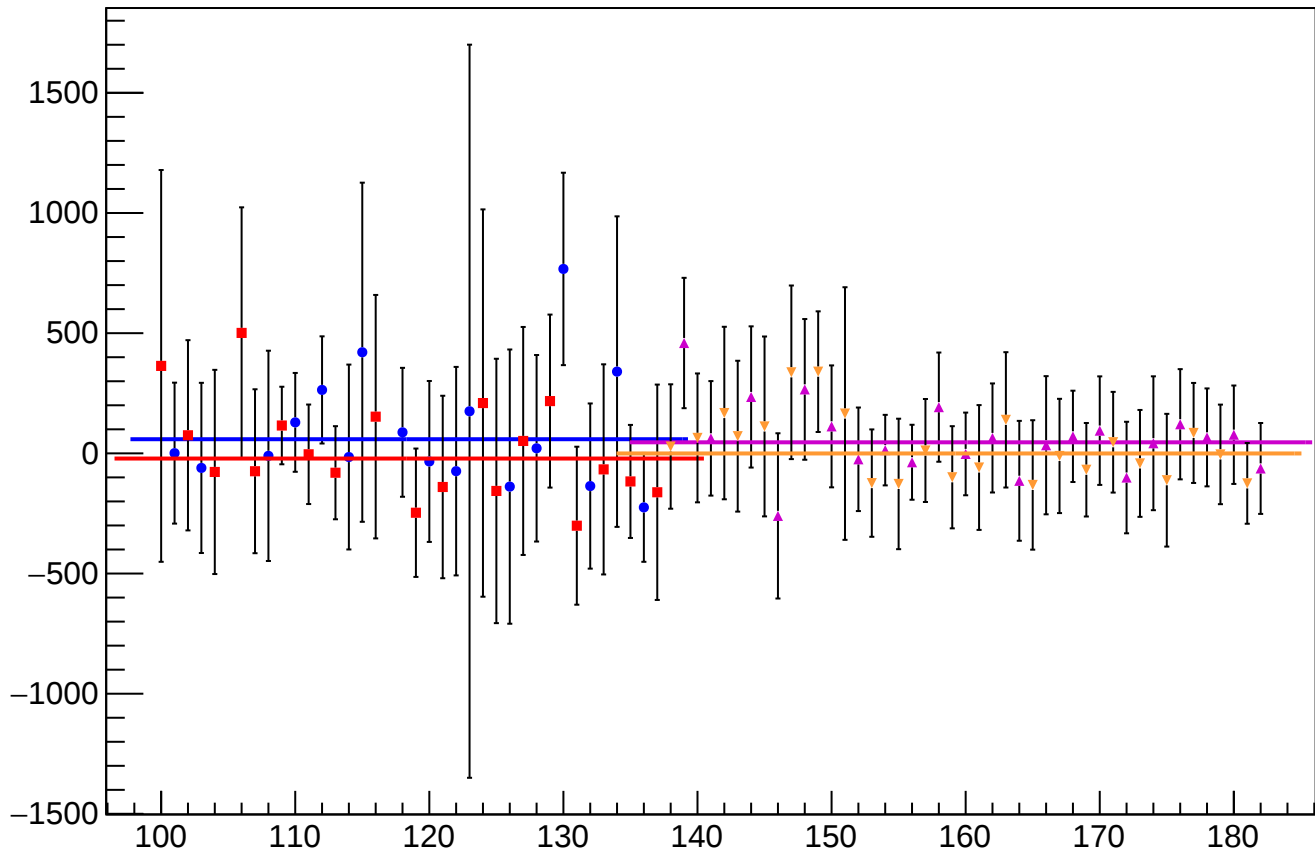
Right: 190.610 $\pm$ 0.039 χ^2 /NDF: 2325469.6/35

In: 190.088 $\pm$ 0.029 χ^2 /NDF:2375669.9/38

Out: 199.346 $\pm$ 0.030 χ^2 /NDF:3056181.2/41

All: 194.561 $\pm$ 0.021 χ^2 /NDF: 5481622.2/80

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 58.835 $\pm$ 81.036 χ^2 /NDF: 7.0/16

Left Out: -0.413 $\pm$ 51.168 χ^2 /NDF:5.6/22

Right Out: -21.559 $\pm$ 71.880 χ^2 /NDF: 4.7/18

Left In: 45.945 $\pm$ 46.517 χ^2 /NDF:6.5/21

Left: 24.968 $\pm$ 34.420 χ^2 /NDF: 12.5/44

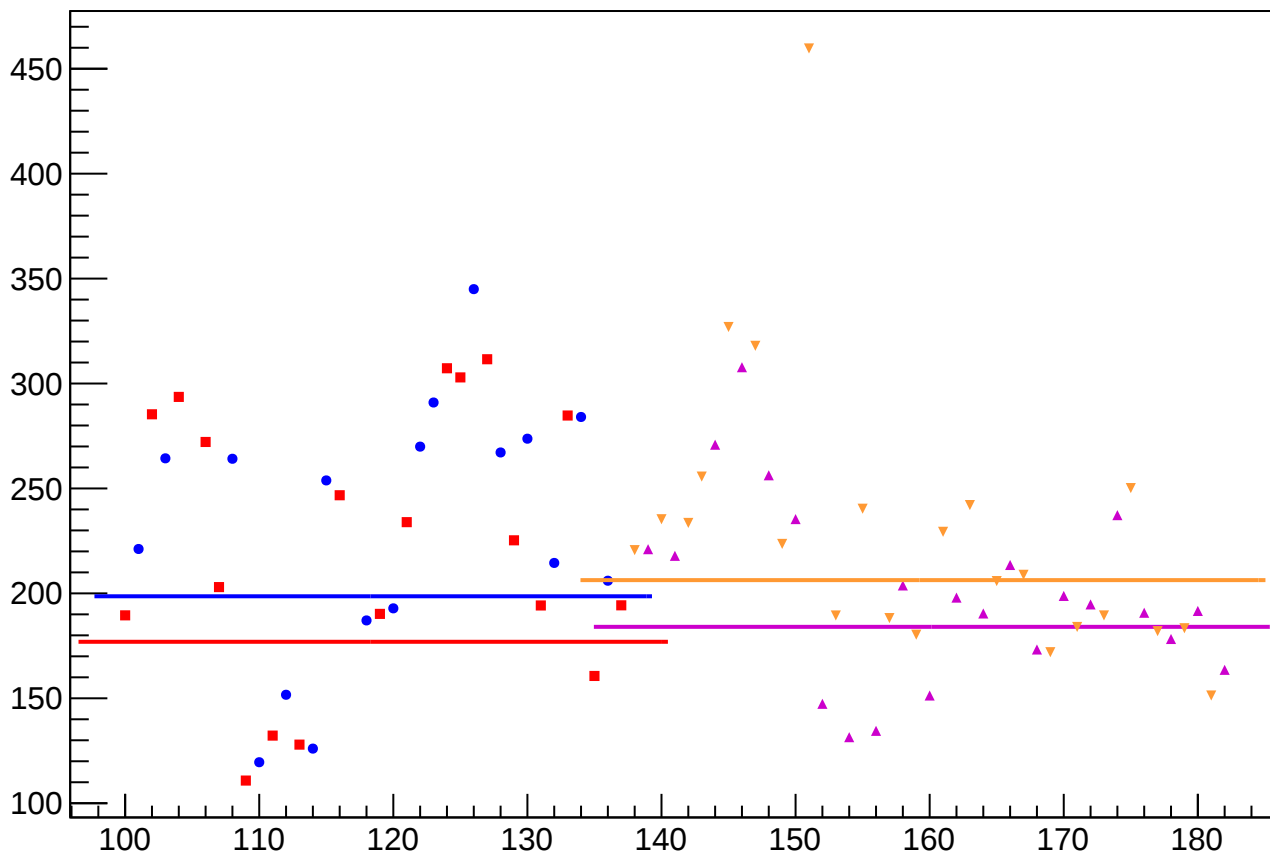
Right: 13.841 $\pm$ 53.774 χ^2 /NDF: 12.2/35

In: 49.139 $\pm$ 40.343 χ^2 /NDF:13.4/38

Out: -7.525 $\pm$ 41.685 χ^2 /NDF:10.4/41

All: 21.734 $\pm$ 28.990 χ^2 /NDF: 24.7/80

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.615+/-0.057 χ^2/NDF : 965079.3/16

Left Out: 206.314+/-0.036 χ^2/NDF :1511977.1/22

Right Out: 176.933+/-0.051 χ^2/NDF : 1519414.5/18

Left In: 184.056+/-0.033 χ^2/NDF :1470833.8/21

Left: 194.128+/-0.024 χ^2/NDF : 3190006.4/44

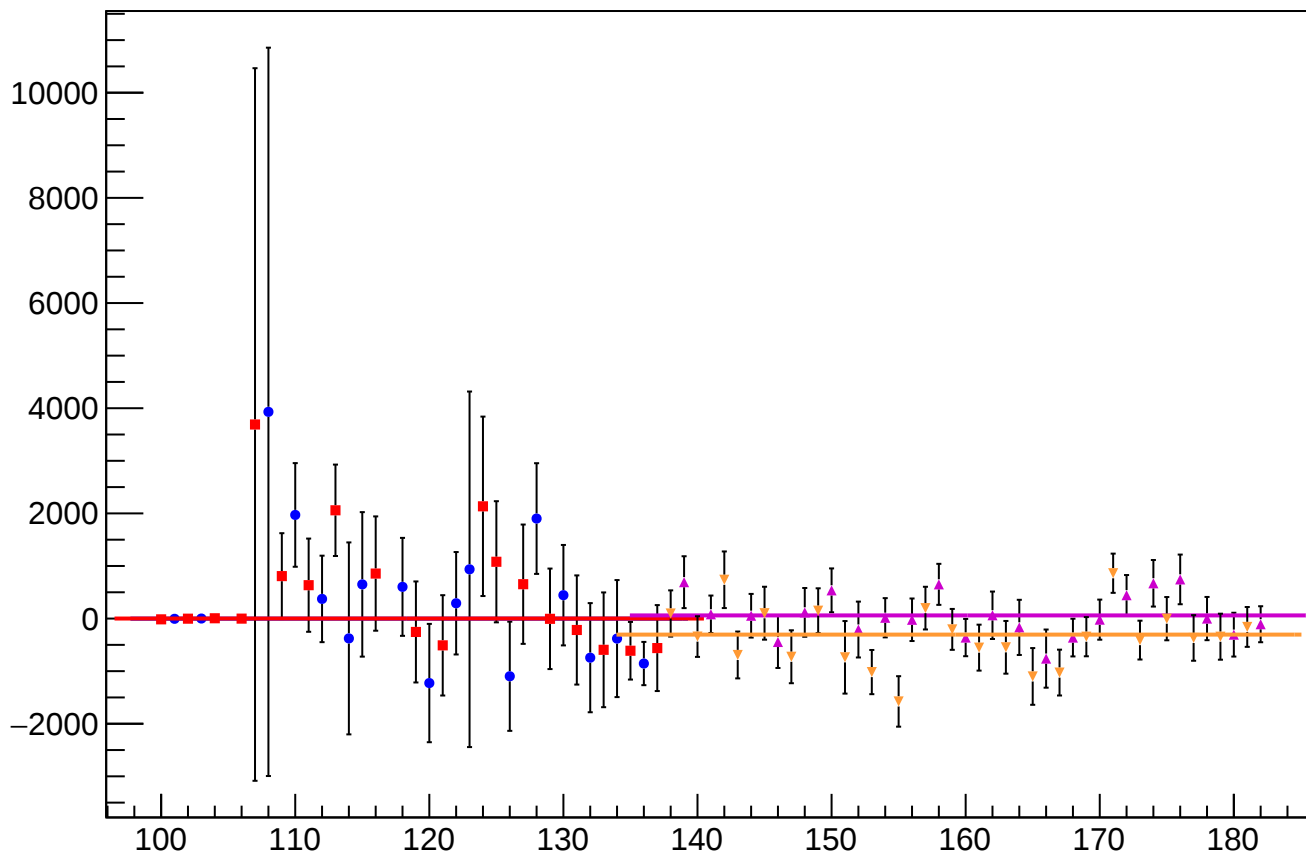
Right: 186.480+/-0.038 χ^2/NDF : 2564624.8/35

In: 187.664+/-0.029 χ^2/NDF :2484468.0/38

Out: 196.433+/-0.029 χ^2/NDF :3253164.9/41

All: 191.905+/-0.020 χ^2/NDF : 5783325.0/80

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.530 ± 2.251 χ^2/NDF : 17.4/16

Left Out: -304.958 ± 90.672 χ^2/NDF : 35.8/22

Right Out: 0.726 ± 2.111 χ^2/NDF : 19.1/18

Left In: 60.065 ± 88.824 χ^2/NDF : 17.9/21

Left: -118.689 ± 63.451 χ^2/NDF : 62.0/44

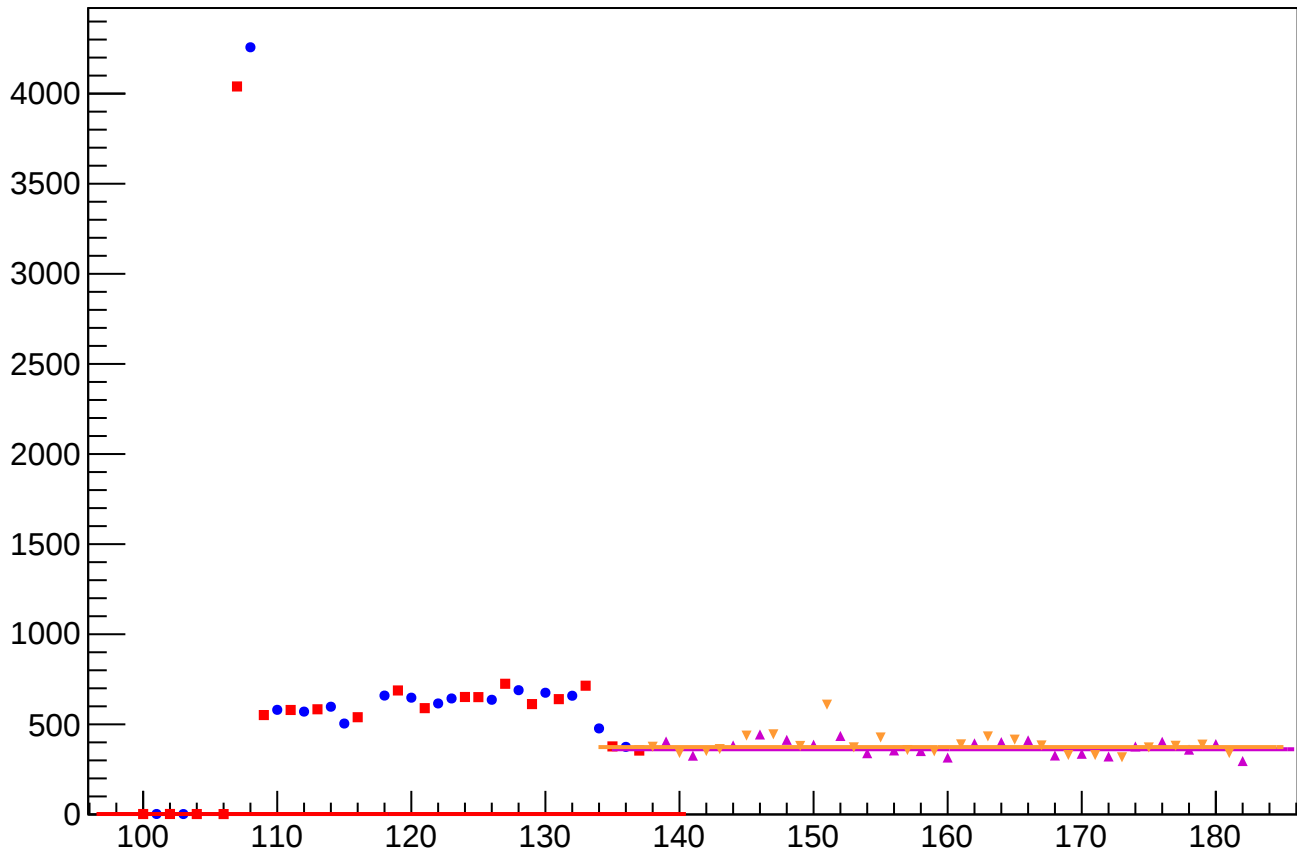
Right: -0.329 ± 1.540 χ^2/NDF : 37.1/35

In: -1.490 ± 2.251 χ^2/NDF : 35.8/38

Out: 0.560 ± 2.111 χ^2/NDF : 66.3/41

All: -0.399 ± 1.540 χ^2/NDF : 102.5/80

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.456+/-0.002 χ^2/NDF : 10808630.7/16

Left Out: 373.834+/-0.064 χ^2/NDF : 523622.6/22

Right Out: 2.437+/-0.001 χ^2/NDF : 11101281.1/18

Left In: 361.811+/-0.063 χ^2/NDF : 396587.2/21

Left: 367.699+/-0.045 χ^2/NDF : 938153.8/44

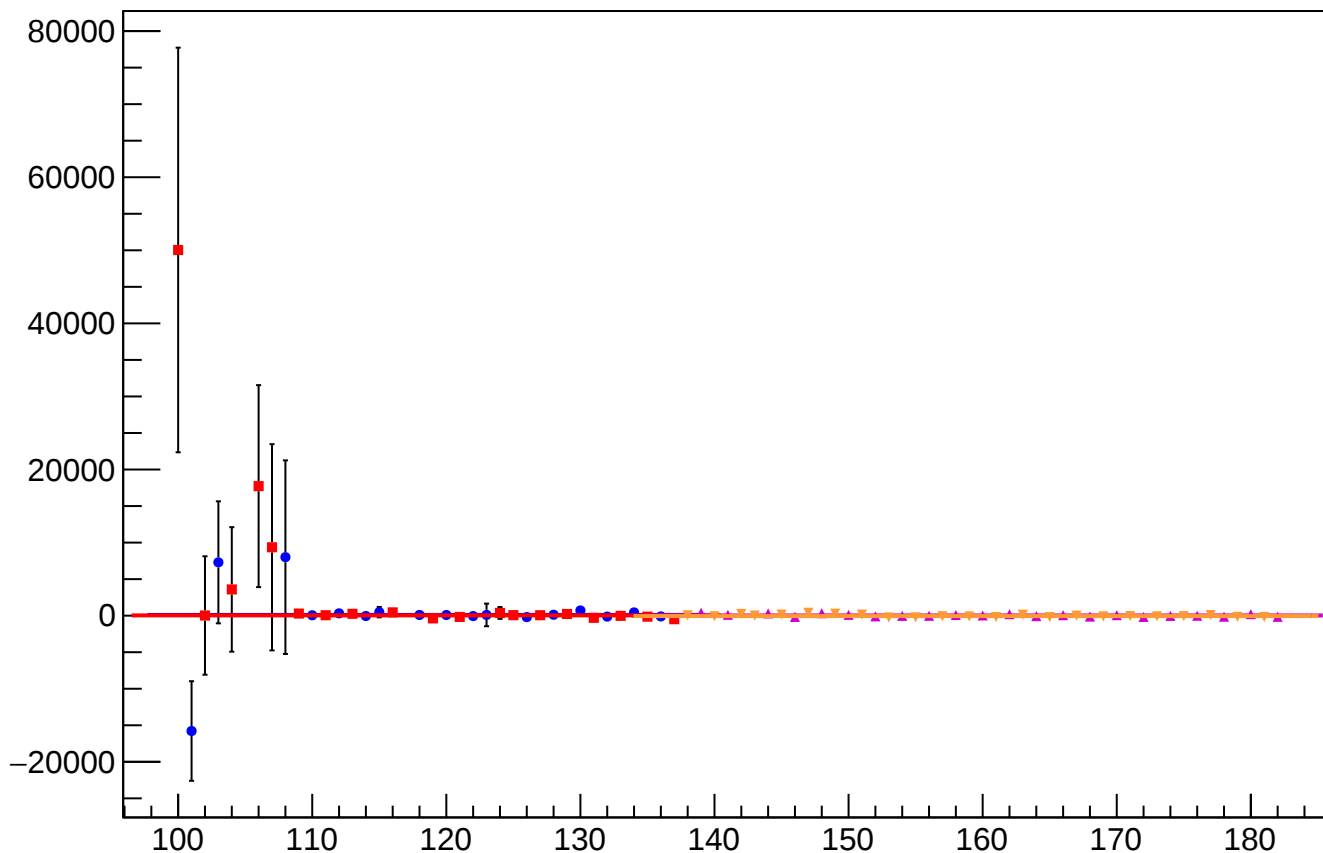
Right: 2.446+/-0.001 χ^2/NDF : 21909994.5/35

In: 2.687+/-0.002 χ^2/NDF : 43919712.1/38

Out: 2.638+/-0.001 χ^2/NDF : 45162122.1/41

All: 2.661+/-0.001 χ^2/NDF : 89082346.0/80

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 100.742 $\pm$ 91.159 χ^2 /NDF: 12.0/16

Left Out: -55.262 $\pm$ 51.902 χ^2 /NDF: 7.8/22

Right Out: 37.835 $\pm$ 84.525 χ^2 /NDF: 14.0/18

Left In: 30.307 $\pm$ 48.737 χ^2 /NDF: 9.1/21

Left: -9.789 $\pm$ 35.529 χ^2 /NDF: 18.3/44

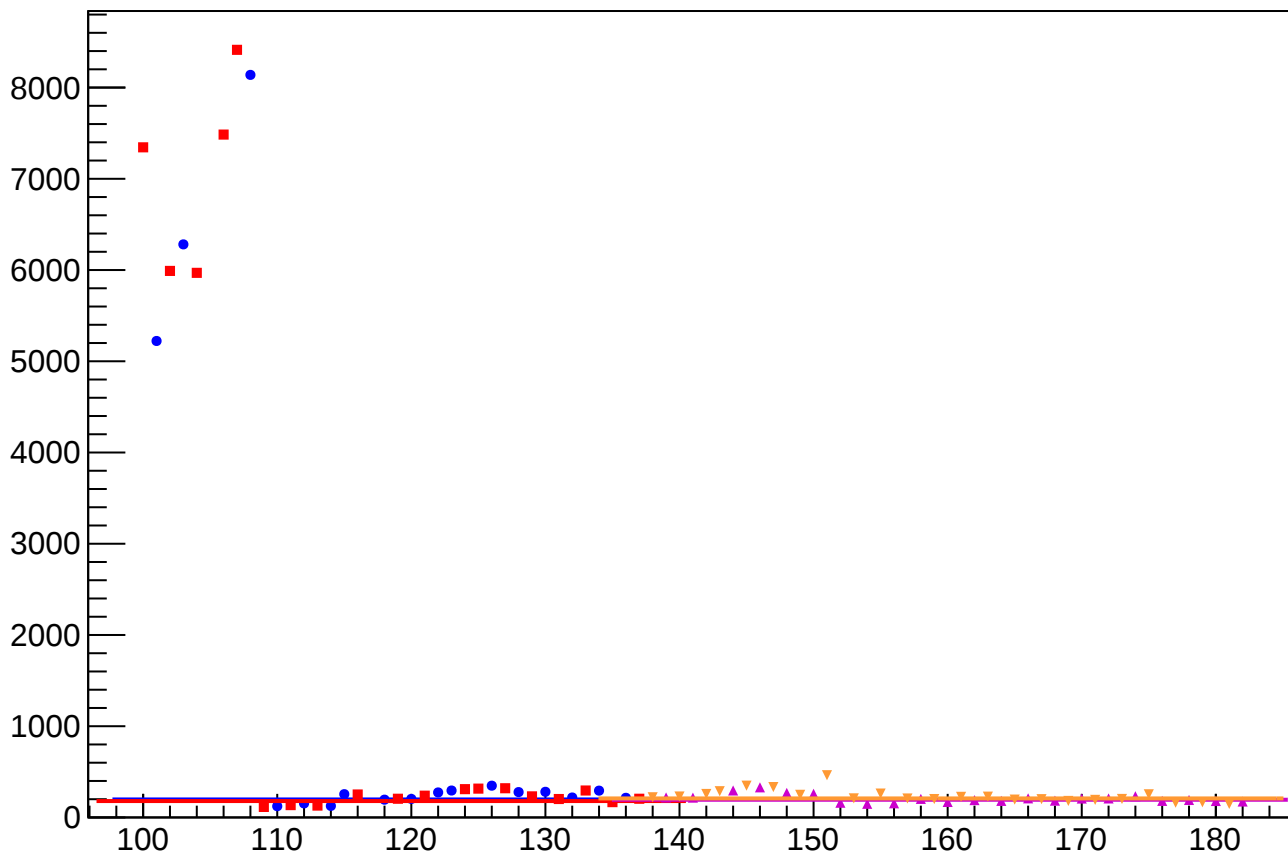
Right: 66.916 $\pm$ 61.981 χ^2 /NDF: 26.3/35

In: 45.965 $\pm$ 42.980 χ^2 /NDF: 21.6/38

Out: -29.771 $\pm$ 44.229 χ^2 /NDF: 22.7/41

All: 9.181 $\pm$ 30.824 χ^2 /NDF: 45.8/80

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.308 $\pm$ 0.064 χ^2 /NDF: 3696256.2/16

Left Out: 208.561 $\pm$ 0.037 χ^2 /NDF:1812043.9/22

Right Out: 179.749 $\pm$ 0.060 χ^2 /NDF: 4315581.1/18

Left In: 194.057 $\pm$ 0.034 χ^2 /NDF:1156767.3/21

Left: 200.853 $\pm$ 0.025 χ^2 /NDF: 3051802.3/44

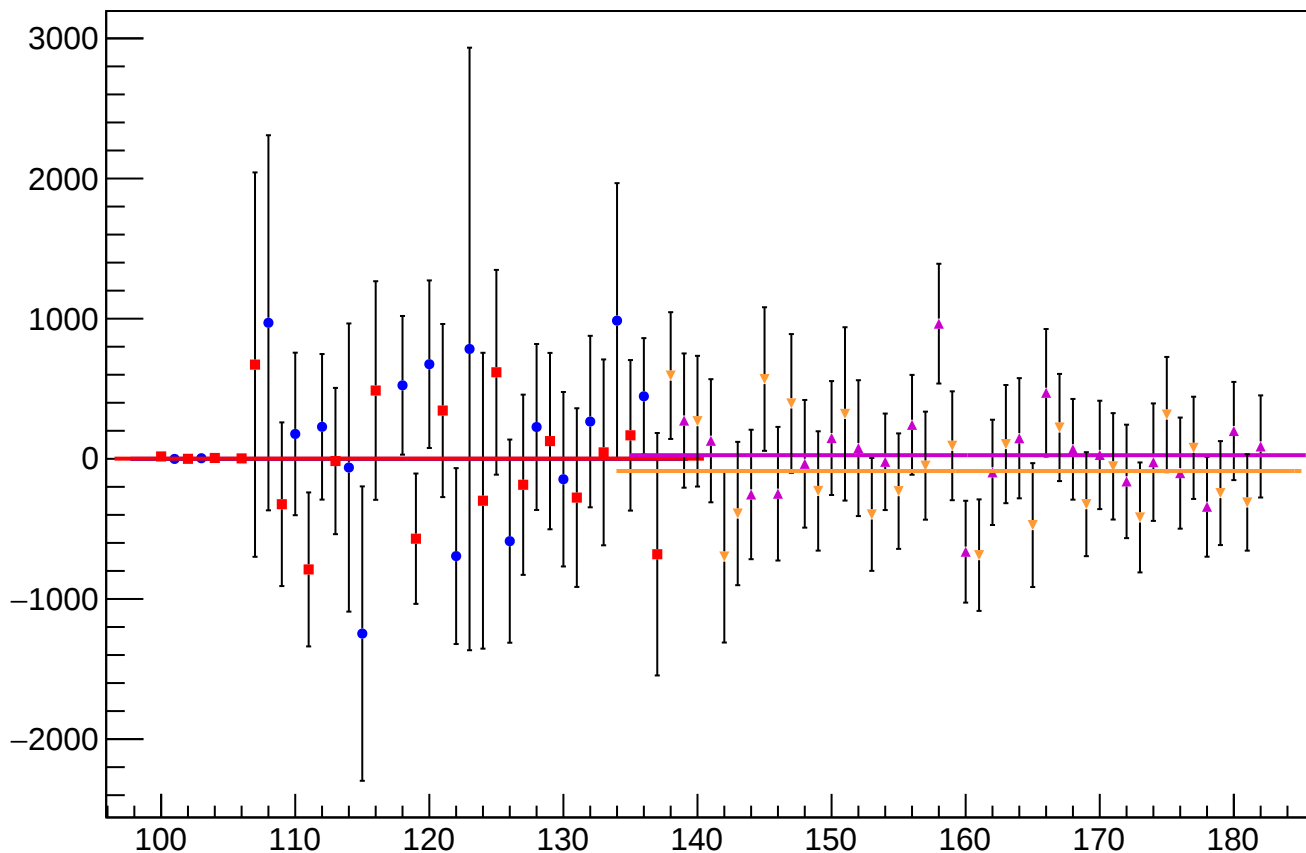
Right: 187.866 $\pm$ 0.044 χ^2 /NDF: 8051736.9/35

In: 194.780 $\pm$ 0.030 χ^2 /NDF:4855001.0/38

Out: 200.672 $\pm$ 0.031 χ^2 /NDF:6296377.8/41

All: 197.641 $\pm$ 0.022 χ^2 /NDF: 11169632.3/80

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.140 ± 1.737 χ^2/NDF : 10.0/16

Left Out: -86.911 ± 87.312 χ^2/NDF : 15.1/22

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.4/18

Left In: 25.917 ± 85.549 χ^2/NDF : 12.8/21

Left: -29.347 ± 61.106 χ^2/NDF : 28.7/44

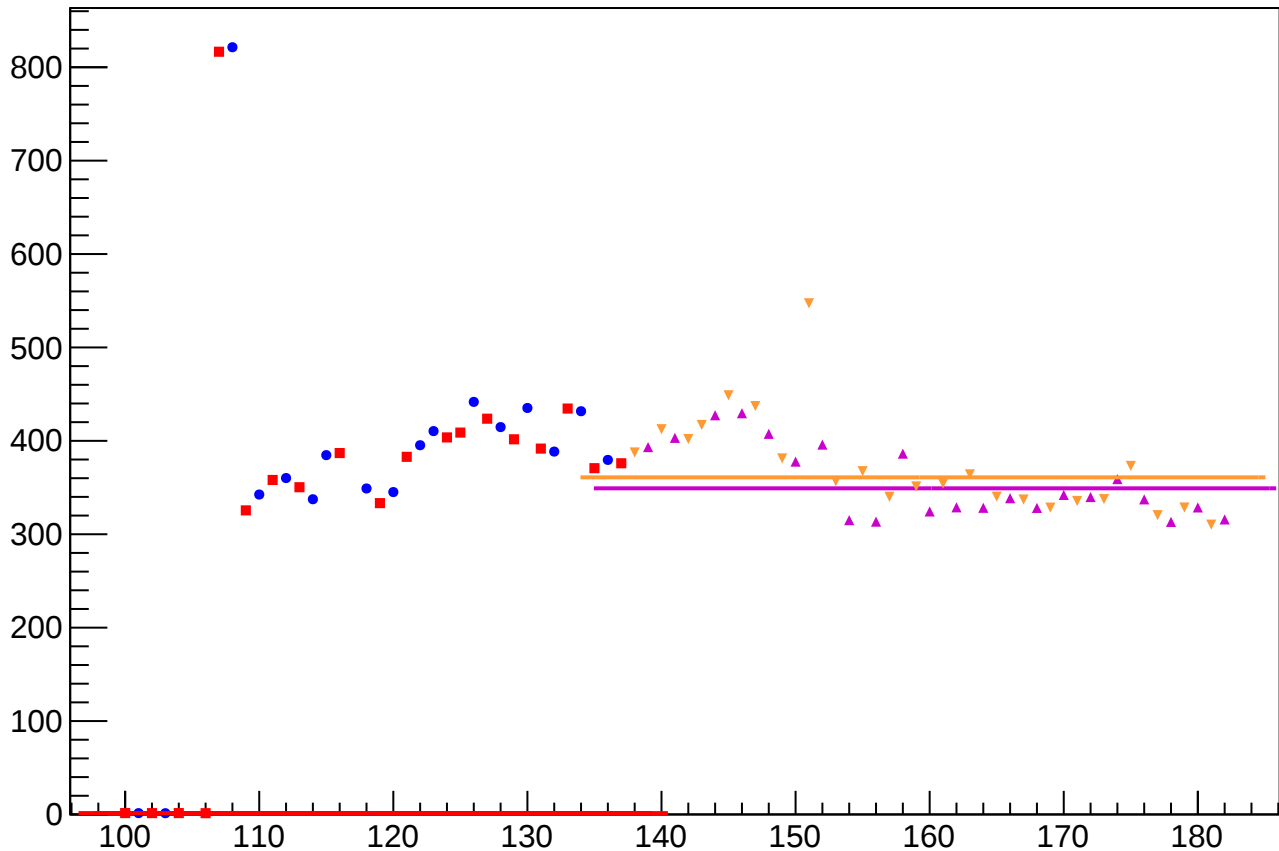
Right: 0.641 ± 1.186 χ^2/NDF : 19.8/35

In: -0.129 ± 1.736 χ^2/NDF : 22.9/38

Out: 1.292 ± 1.622 χ^2/NDF : 25.5/41

All: 0.630 ± 1.185 χ^2/NDF : 48.7/80

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10914608.7/16

Left Out: 360.900+/-0.062 χ^2/NDF : 493588.4/22

Right Out: 1.451+/-0.001 χ^2/NDF : 10838834.3/18

Left In: 349.160+/-0.060 χ^2/NDF : 353928.2/21

Left: 354.910+/-0.043 χ^2/NDF : 865964.9/44

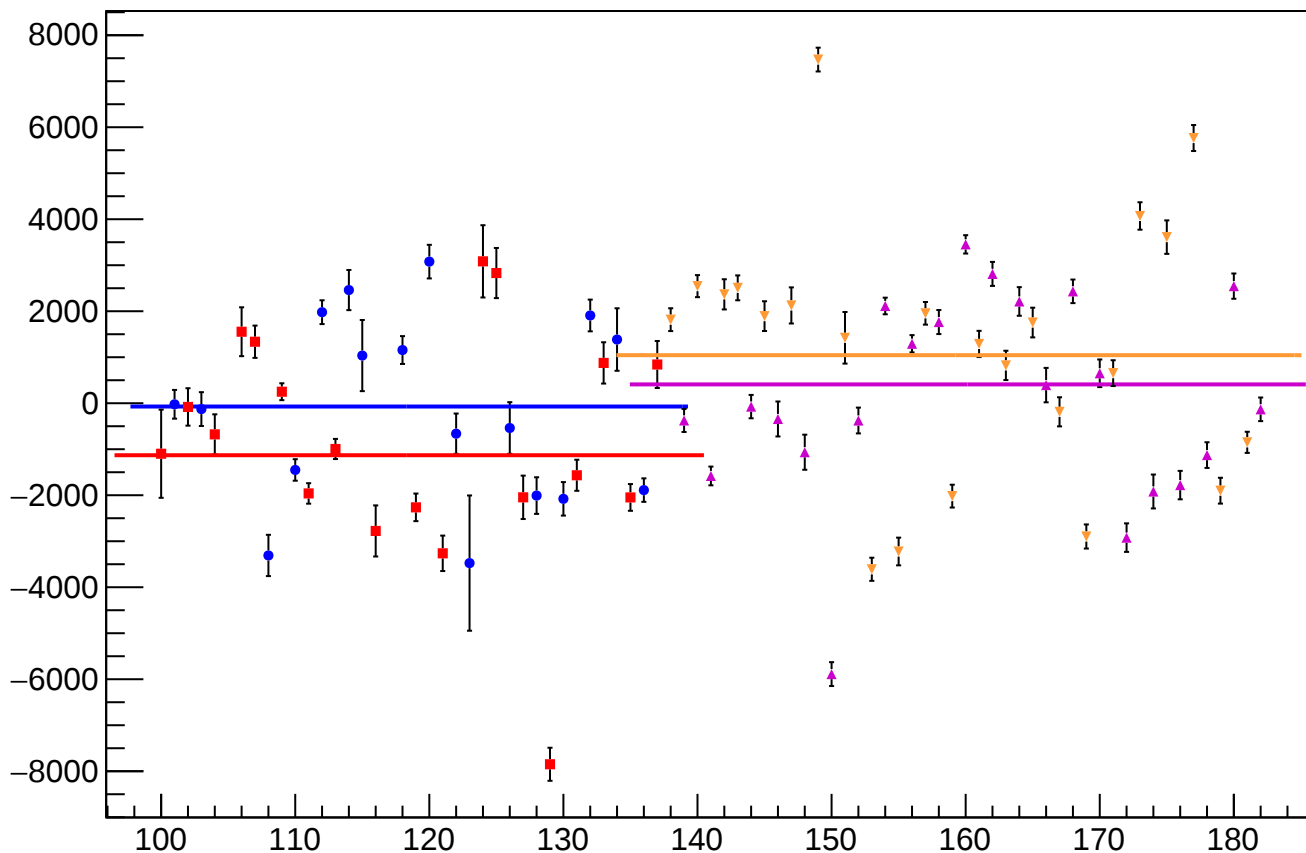
Right: 1.452+/-0.001 χ^2/NDF : 21753444.0/35

In: 1.596+/-0.001 χ^2/NDF : 44293666.2/38

Out: 1.575+/-0.001 χ^2/NDF : 45217463.5/41

All: 1.585+/-0.001 χ^2/NDF : 89511283.1/80

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -71.539 ± 87.764 χ^2/NDF : 426.3/16

Left Out: 1044.603 ± 59.511 χ^2/NDF : 2295.1/22

Right Out: -1130.395 ± 78.436 χ^2/NDF : 688.9/18

Left In: 409.541 ± 55.580 χ^2/NDF : 1577.9/21

Left: 705.403 ± 40.620 χ^2/NDF : 3933.9/44

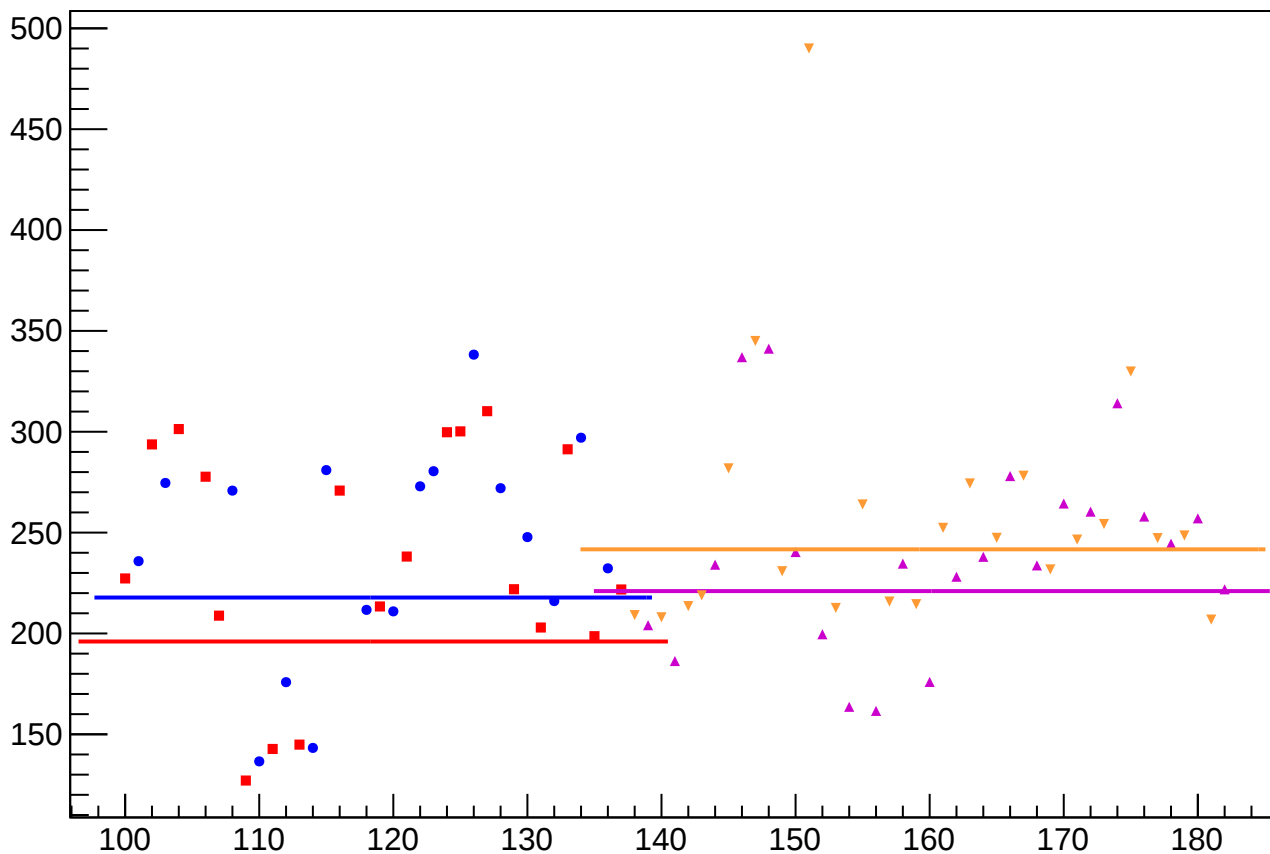
Right: -660.208 ± 58.484 χ^2/NDF : 1196.1/35

In: 271.832 ± 46.956 χ^2/NDF : 2025.7/38

Out: 249.976 ± 47.410 χ^2/NDF : 3472.0/41

All: 261.009 ± 33.362 χ^2/NDF : 5497.8/80

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.814 $\pm$ 0.062 χ^2 /NDF: 661049.8/16

Left Out: 241.706 $\pm$ 0.042 χ^2 /NDF: 974859.2/22

Right Out: 196.014 $\pm$ 0.055 χ^2 /NDF: 1189121.8/18

Left In: 221.004 $\pm$ 0.039 χ^2 /NDF: 1327642.3/21

Left: 230.648 $\pm$ 0.029 χ^2 /NDF: 2431770.4/44

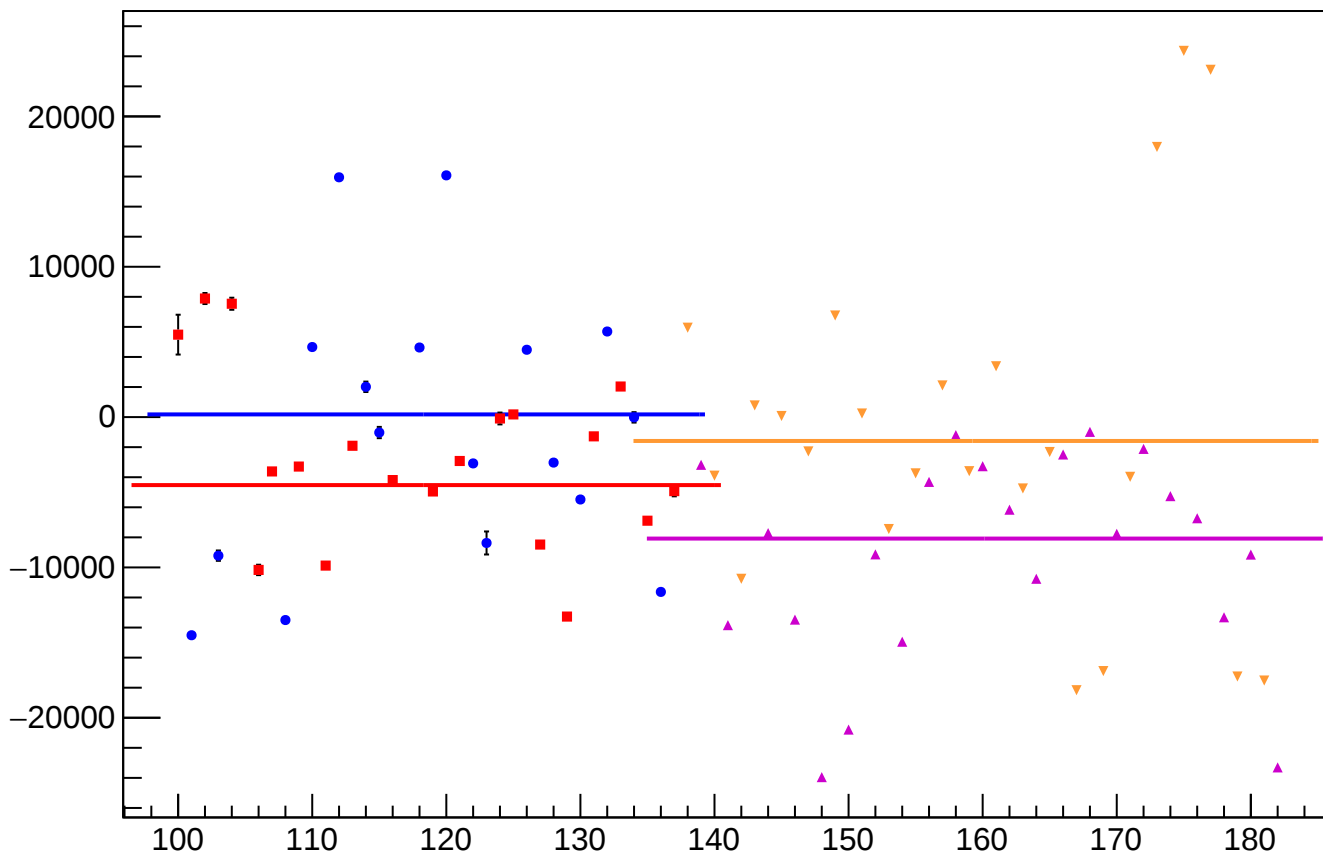
Right: 205.694 $\pm$ 0.041 χ^2 /NDF: 1918777.4/35

In: 220.091 $\pm$ 0.033 χ^2 /NDF: 1990577.8/38

Out: 225.012 $\pm$ 0.034 χ^2 /NDF: 2594724.6/41

All: 222.528 $\pm$ 0.024 χ^2 /NDF: 4596182.6/80

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788 $\pm$ 54.896 χ^2 /NDF: 30662.2/16

Left Out: -1587.880 $\pm$ 43.094 χ^2 /NDF: 60612.3/22

Right Out: -4523.222 $\pm$ 52.440 χ^2 /NDF: 7474.2/18

Left In: -8080.764 $\pm$ 44.505 χ^2 /NDF: 20820.0/21

Left: -4729.808 $\pm$ 30.959 χ^2 /NDF: 92417.2/44

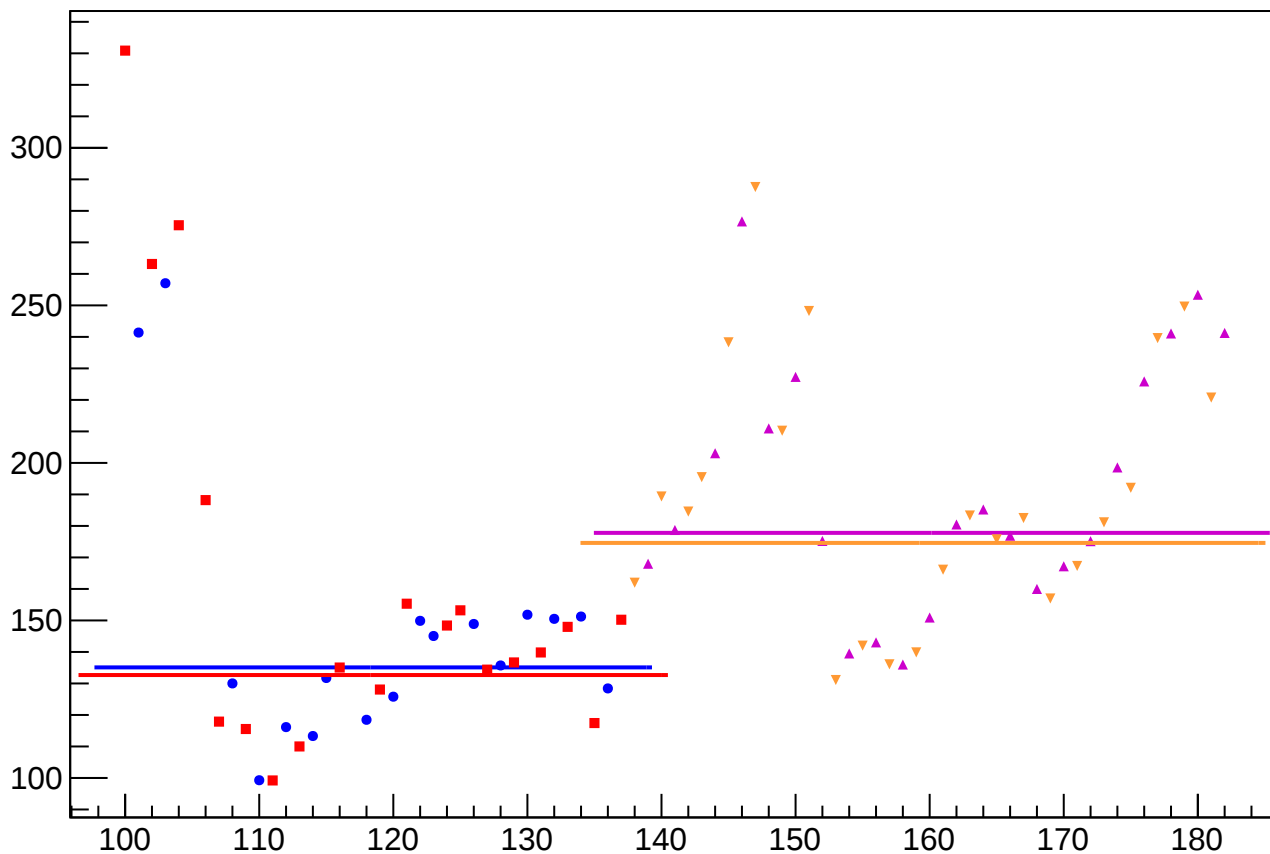
Right: -2279.776 $\pm$ 37.919 χ^2 /NDF: 41972.4/35

In: -4805.139 $\pm$ 34.571 χ^2 /NDF: 65141.9/38

Out: -2771.124 $\pm$ 33.294 χ^2 /NDF: 69956.8/41

All: -3749.876 $\pm$ 23.981 χ^2 /NDF: 136894.6/80

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099+/-0.039 χ^2/NDF : 657657.4/16

Left Out: 174.610+/-0.030 χ^2/NDF :1405215.3/22

Right Out: 132.672+/-0.037 χ^2/NDF : 828363.1/18

Left In: 177.798+/-0.031 χ^2/NDF :1251799.6/21

Left: 176.153+/-0.022 χ^2/NDF : 2662310.0/44

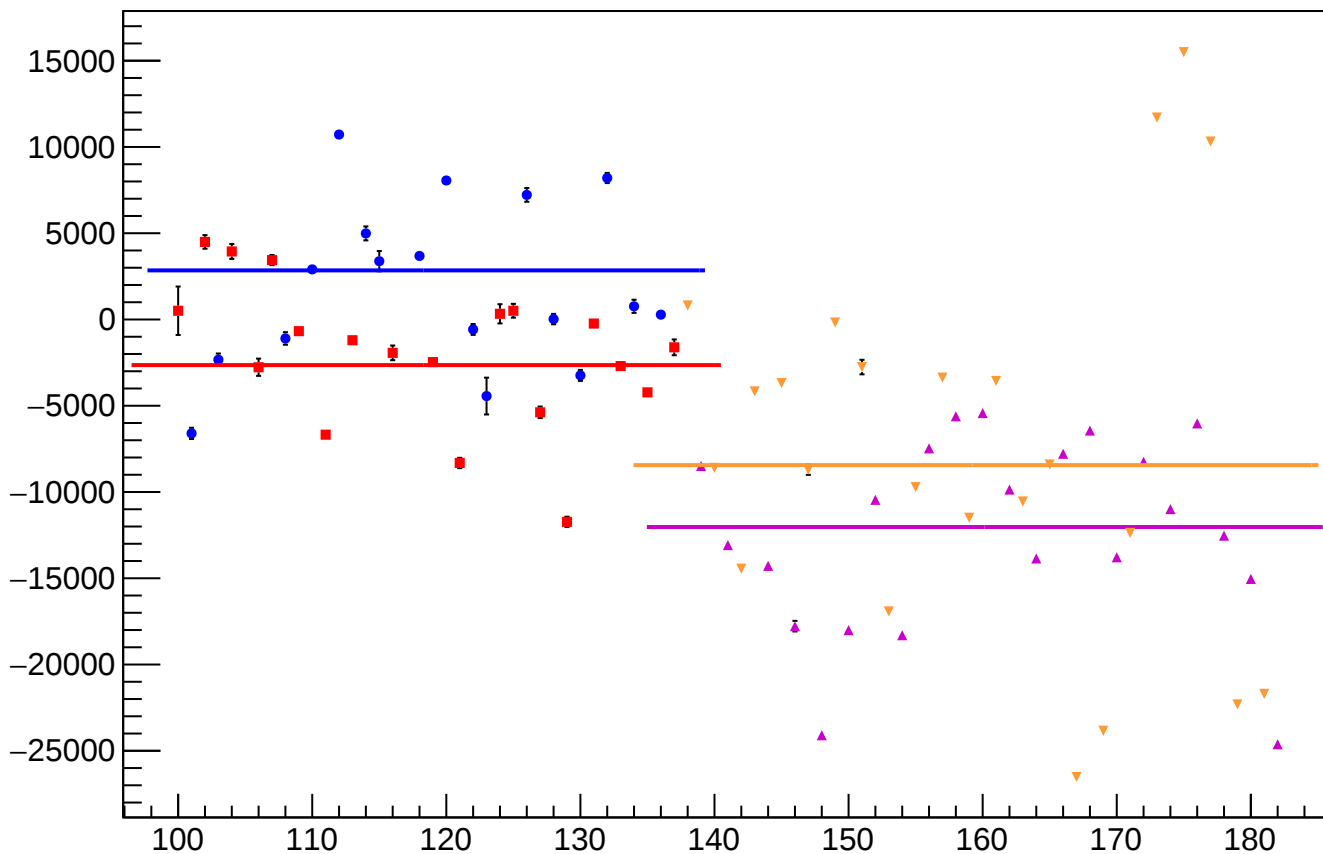
Right: 133.830+/-0.027 χ^2/NDF : 1488063.7/35

In: 160.864+/-0.024 χ^2/NDF :2639581.8/38

Out: 157.705+/-0.024 χ^2/NDF :2997108.3/41

All: 159.225+/-0.017 χ^2/NDF : 5645354.1/80

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117 $\pm$ 70.894 χ^2 /NDF: 4160.1/16

Left Out: -8440.454 $\pm$ 46.910 χ^2 /NDF:53871.1/22

Right Out: -2643.505 $\pm$ 65.711 χ^2 /NDF: 3177.7/18

Left In: -12029.339 $\pm$ 44.277 χ^2 /NDF:15072.4/21

Left: -10338.432 $\pm$ 32.199 χ^2 /NDF: 72038.9/44

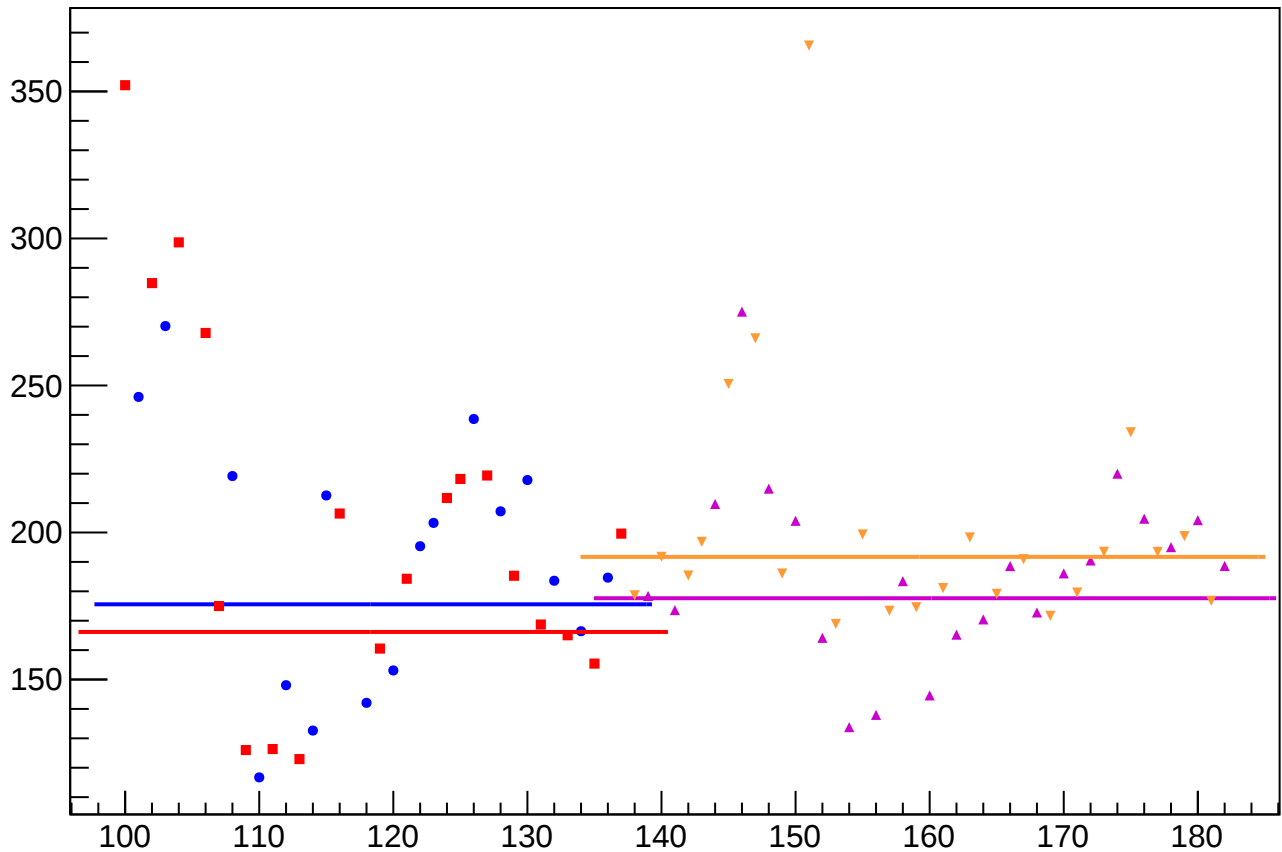
Right: -106.685 $\pm$ 48.193 χ^2 /NDF: 10563.0/35

In: -7855.116 $\pm$ 37.555 χ^2 /NDF:50905.1/38

Out: -6483.476 $\pm$ 38.180 χ^2 /NDF:62204.1/41

All: -7180.615 $\pm$ 26.773 χ^2 /NDF: 113765.2/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582 $\pm$ 0.050 χ^2 /NDF: 687852.4/16

Left Out: 191.702 $\pm$ 0.033 χ^2 /NDF: 724979.8/22

Right Out: 166.180 $\pm$ 0.046 χ^2 /NDF: 925559.0/18

Left In: 177.645 $\pm$ 0.031 χ^2 /NDF: 860379.4/21

Left: 184.268 $\pm$ 0.023 χ^2 /NDF: 1680331.6/44

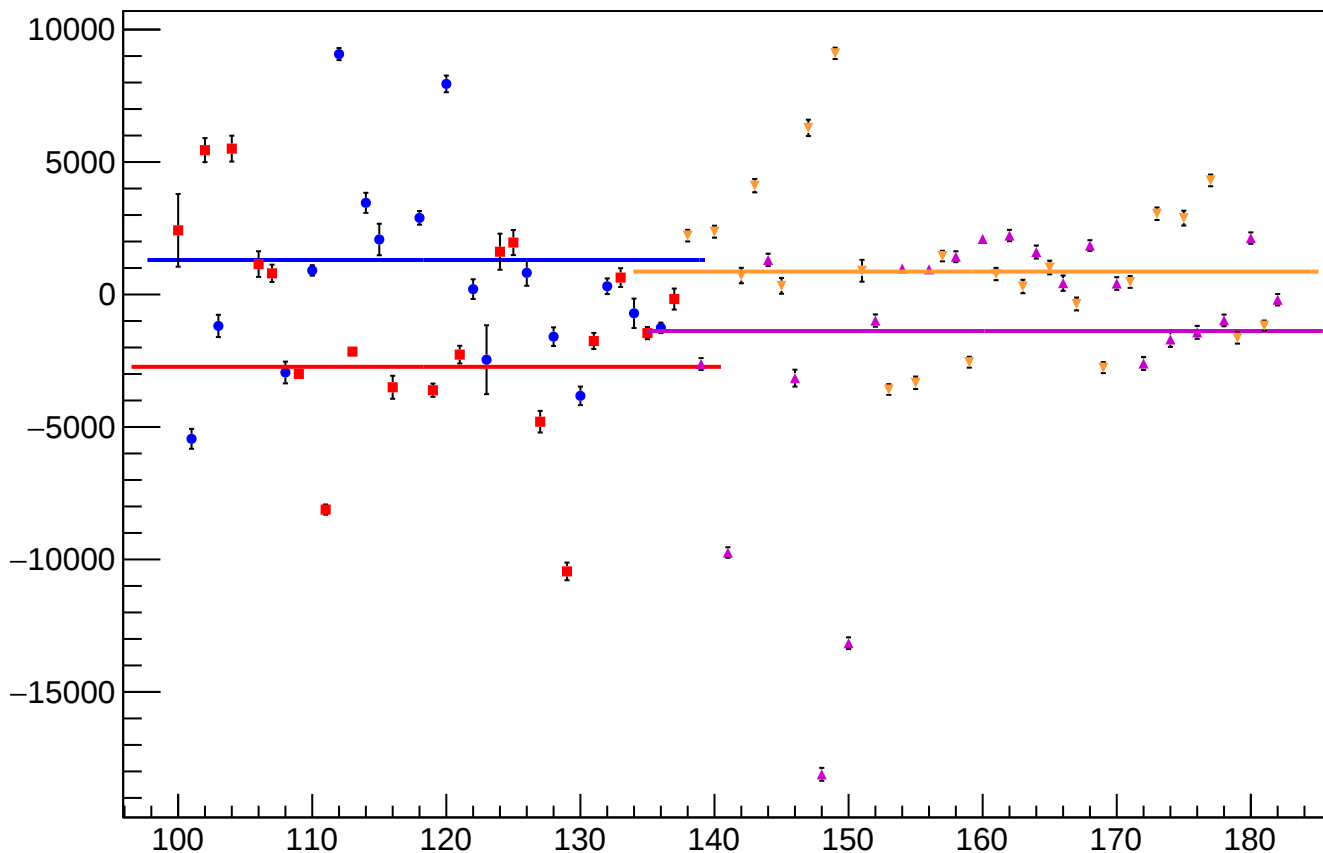
Right: 170.525 $\pm$ 0.034 χ^2 /NDF: 1632331.4/35

In: 177.066 $\pm$ 0.027 χ^2 /NDF: 1549450.6/38

Out: 183.086 $\pm$ 0.027 χ^2 /NDF: 1850391.3/41

All: 180.027 $\pm$ 0.019 χ^2 /NDF: 3425112.9/80

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 ± 77.323 $\chi^2/\text{NDF}: 2649.9/16$

Left Out: 864.423 ± 49.044 $\chi^2/\text{NDF}: 4090.0/22$

Right Out: -2729.355 ± 70.012 $\chi^2/\text{NDF}: 2497.2/18$

Left In: -1377.862 ± 46.195 $\chi^2/\text{NDF}: 11626.7/21$

Left: -323.732 ± 33.627 $\chi^2/\text{NDF}: 16824.4/44$

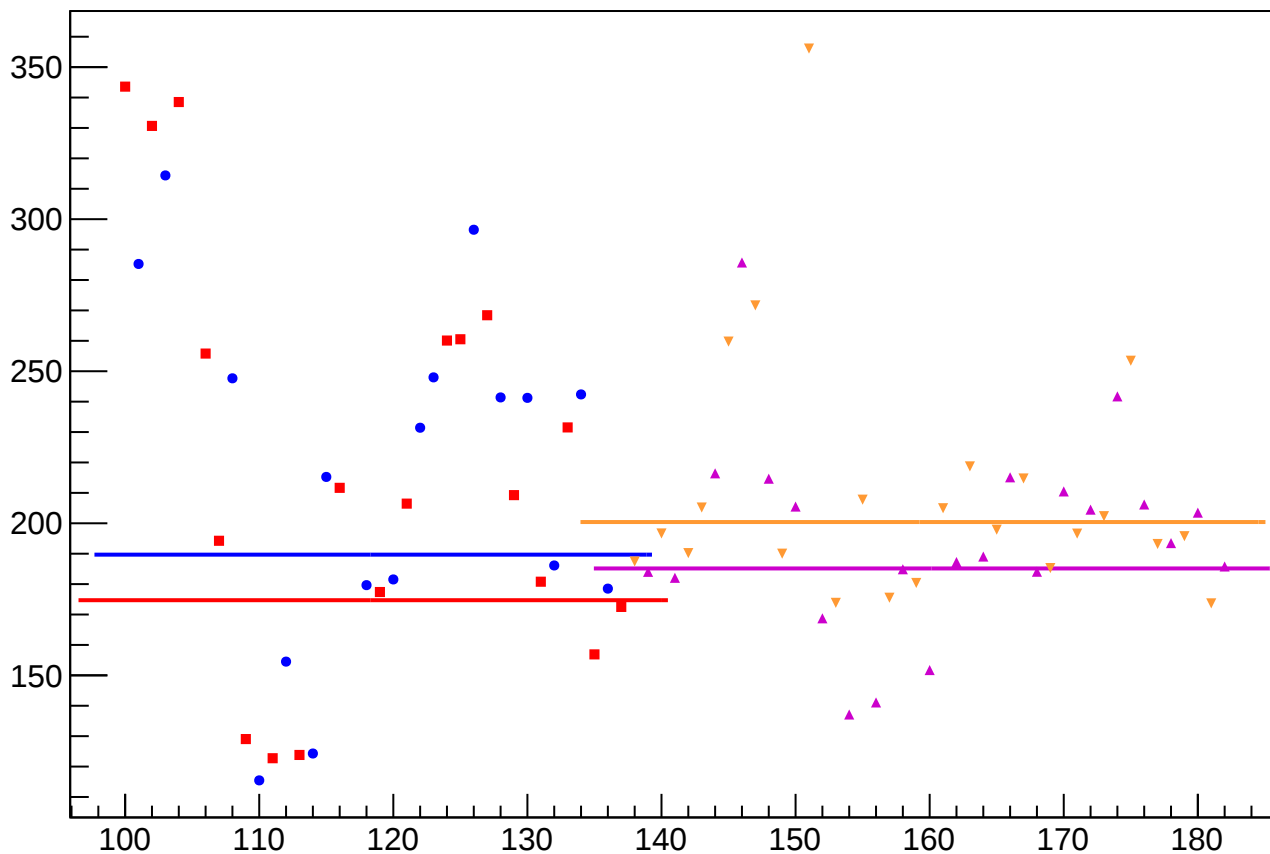
Right: -912.817 ± 51.899 $\chi^2/\text{NDF}: 6641.4/35$

In: -672.712 ± 39.657 $\chi^2/\text{NDF}: 15162.4/38$

Out: -318.578 ± 40.169 $\chi^2/\text{NDF}: 8354.7/41$

All: -497.915 ± 28.221 $\chi^2/\text{NDF}: 23556.5/80$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687+/-0.055 χ^2/NDF : 977199.2/16

Left Out: 200.411+/-0.035 χ^2/NDF : 715827.8/22

Right Out: 174.707+/-0.050 χ^2/NDF : 1291115.5/18

Left In: 185.148+/-0.033 χ^2/NDF : 882723.8/21

Left: 192.323+/-0.024 χ^2/NDF : 1701194.3/44

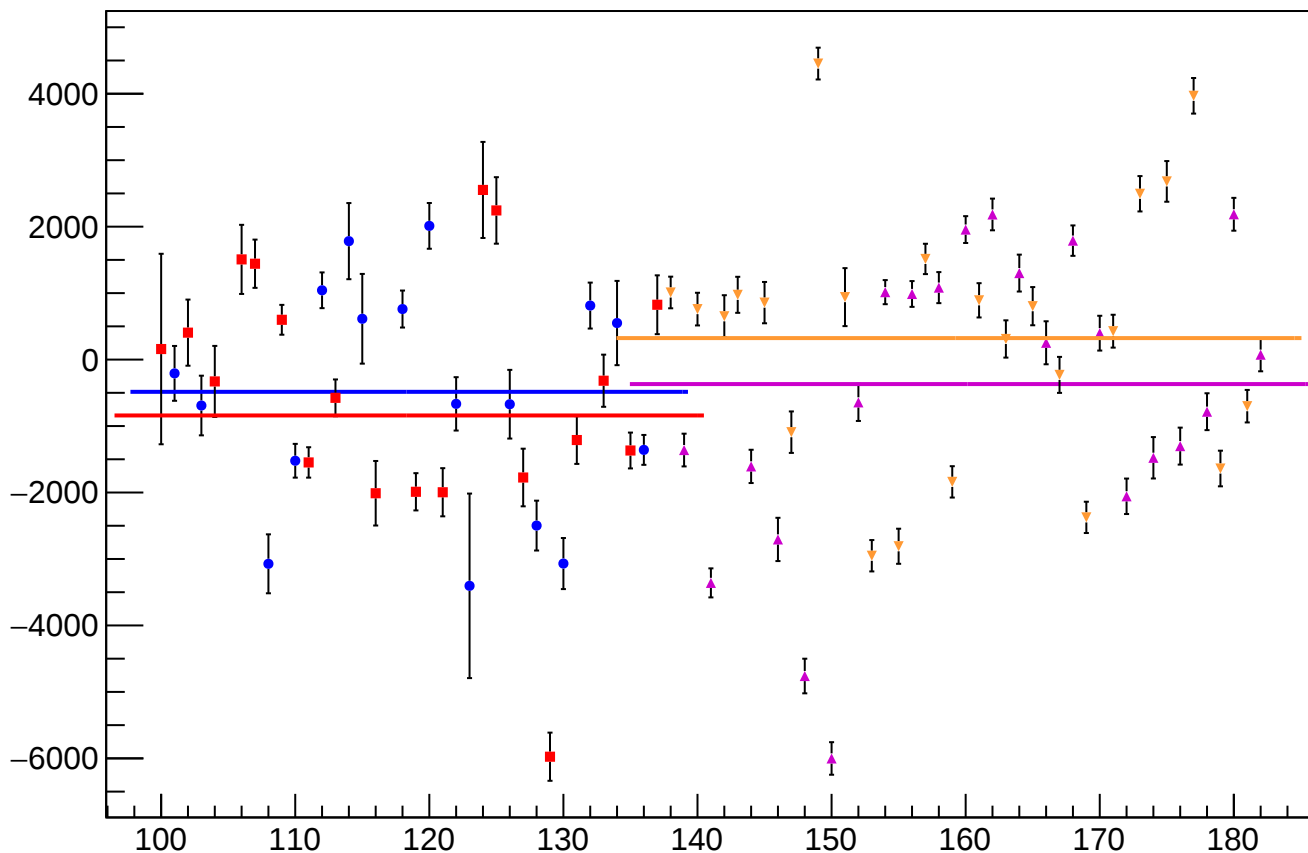
Right: 181.455+/-0.037 χ^2/NDF : 2309563.7/35

In: 186.342+/-0.028 χ^2/NDF : 1865001.6/38

Out: 191.950+/-0.028 χ^2/NDF : 2187789.5/41

All: 189.110+/-0.020 χ^2/NDF : 4072531.2/80

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Left: -40.289 ± 38.037 χ^2/NDF : 3194.9/44

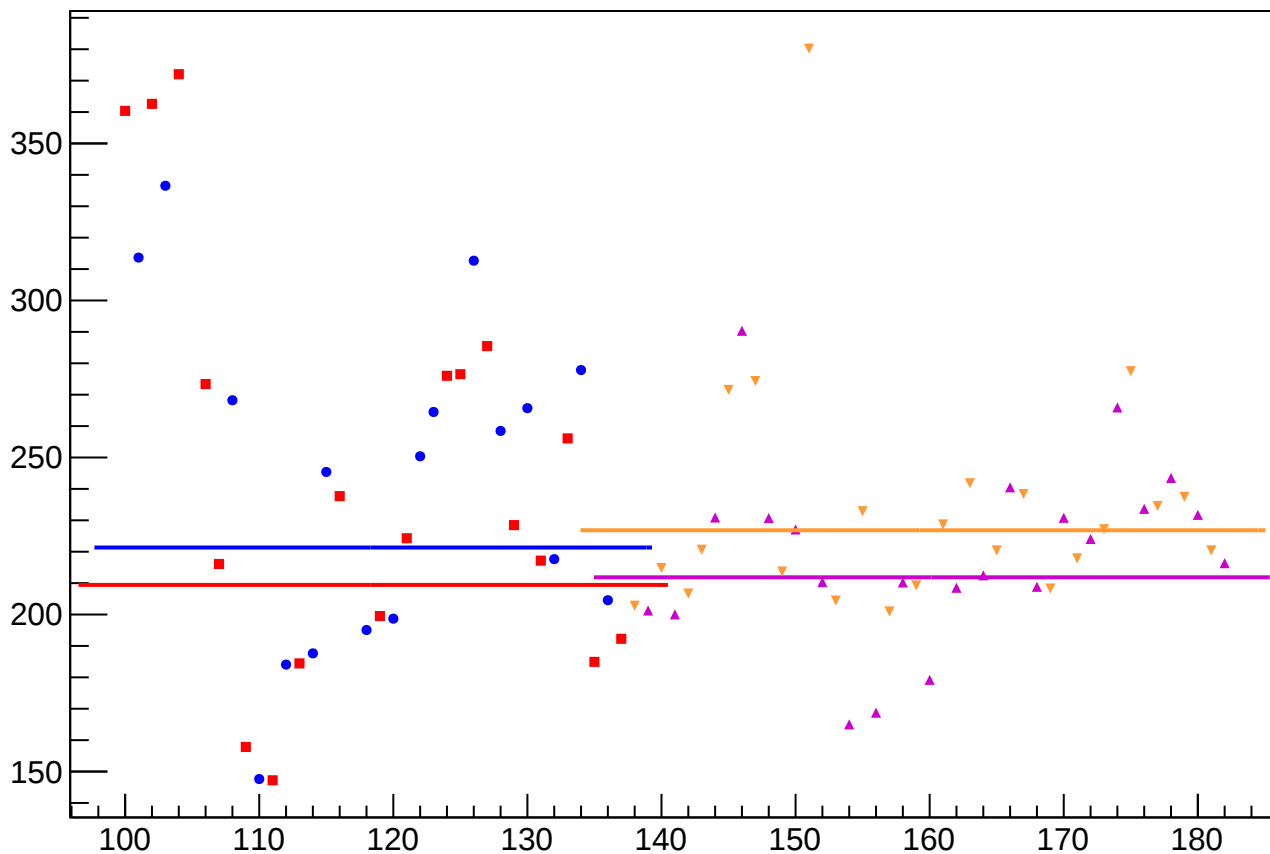
Right: -676.425 ± 60.332 χ^2/NDF : 732.1/35

In: -398.580 ± 45.167 χ^2/NDF : 2086.8/38

Out: -38.473 ± 45.848 χ^2/NDF : 1888.5/41

All: -221.222 ± 32.176 χ^2/NDF : 4006.6/80

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 $\pm$ 0.063 χ^2 /NDF: 645507.4/16

Left Out: 226.836 $\pm$ 0.039 χ^2 /NDF: 517293.9/22

Right Out: 209.428 $\pm$ 0.058 χ^2 /NDF: 879292.0/18

Left In: 211.849 $\pm$ 0.037 χ^2 /NDF: 583668.2/21

Left: 218.958 $\pm$ 0.027 χ^2 /NDF: 1178373.7/44

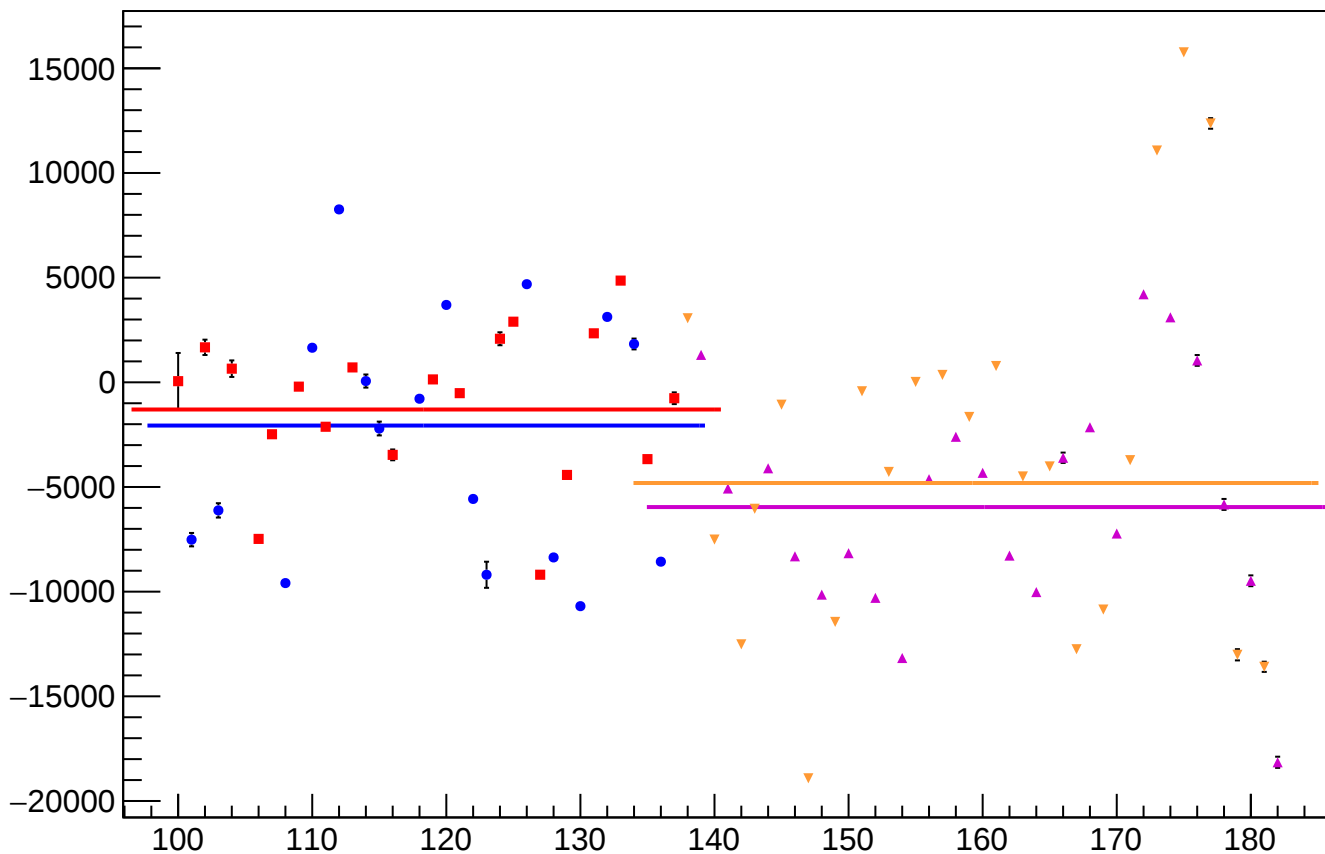
Right: 214.927 $\pm$ 0.043 χ^2 /NDF: 1544173.7/35

In: 214.305 $\pm$ 0.032 χ^2 /NDF: 1246109.5/38

Out: 221.424 $\pm$ 0.032 χ^2 /NDF: 1458351.1/41

All: 217.811 $\pm$ 0.023 χ^2 /NDF: 2728934.0/80

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 ± 47.407 $\chi^2/\text{NDF}: 16535.7/16$

Left Out: -4809.676 ± 34.168 $\chi^2/\text{NDF}: 51757.6/22$

Right Out: -1298.632 ± 44.980 $\chi^2/\text{NDF}: 5909.5/18$

Left In: -5959.069 ± 35.108 $\chi^2/\text{NDF}: 16427.9/21$

Left: -5368.785 ± 24.486 $\chi^2/\text{NDF}: 68736.0/44$

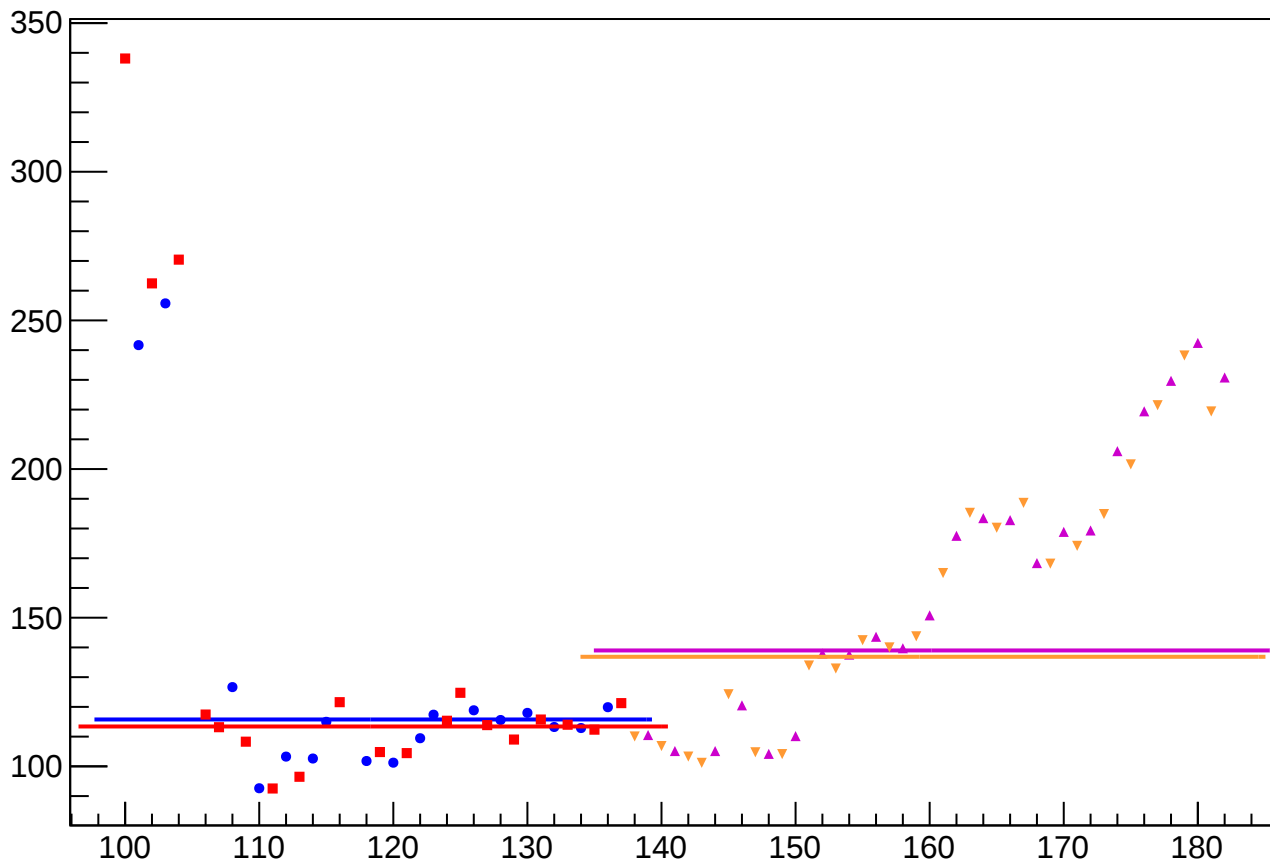
Right: -1661.949 ± 32.630 $\chi^2/\text{NDF}: 22582.8/35$

In: -4580.036 ± 28.213 $\chi^2/\text{NDF}: 37319.9/38$

Out: -3525.003 ± 27.208 $\chi^2/\text{NDF}: 61530.6/41$

All: -4033.390 ± 19.585 $\chi^2/\text{NDF}: 99575.1/80$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768 ± 0.034 χ^2/NDF : 743657.8/16

Left Out: 136.850 ± 0.024 χ^2/NDF : 2241155.4/22

Right Out: 113.410 ± 0.032 χ^2/NDF : 795303.3/18

Left In: 138.984 ± 0.025 χ^2/NDF : 2321806.0/21

Left: 137.888 ± 0.017 χ^2/NDF : 4566753.8/44

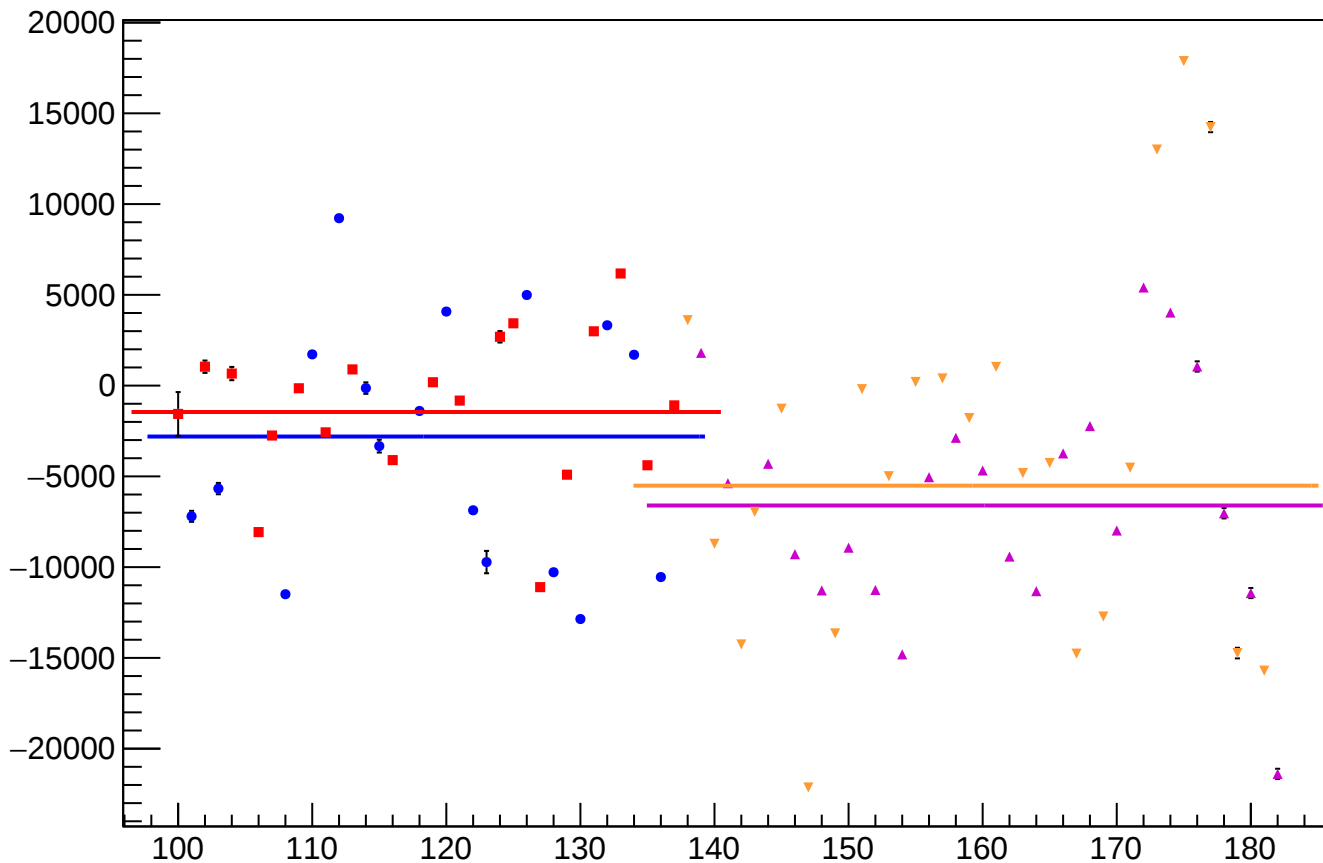
Right: 114.527 ± 0.023 χ^2/NDF : 1541564.1/35

In: 130.761 ± 0.020 χ^2/NDF : 3375226.5/38

Out: 128.274 ± 0.019 χ^2/NDF : 3380866.0/41

All: 129.472 ± 0.014 χ^2/NDF : 6764146.2/80

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2805.410 ± 48.358 $\chi^2/\text{NDF}: 21259.6/16$

Left Out: -5511.649 ± 36.377 $\chi^2/\text{NDF}: 60165.3/22$

Right Out: -1454.376 ± 46.372 $\chi^2/\text{NDF}: 8020.2/18$

Left In: -6604.689 ± 37.393 $\chi^2/\text{NDF}: 19459.1/21$

Left: -6043.111 ± 26.074 $\chi^2/\text{NDF}: 80063.3/44$

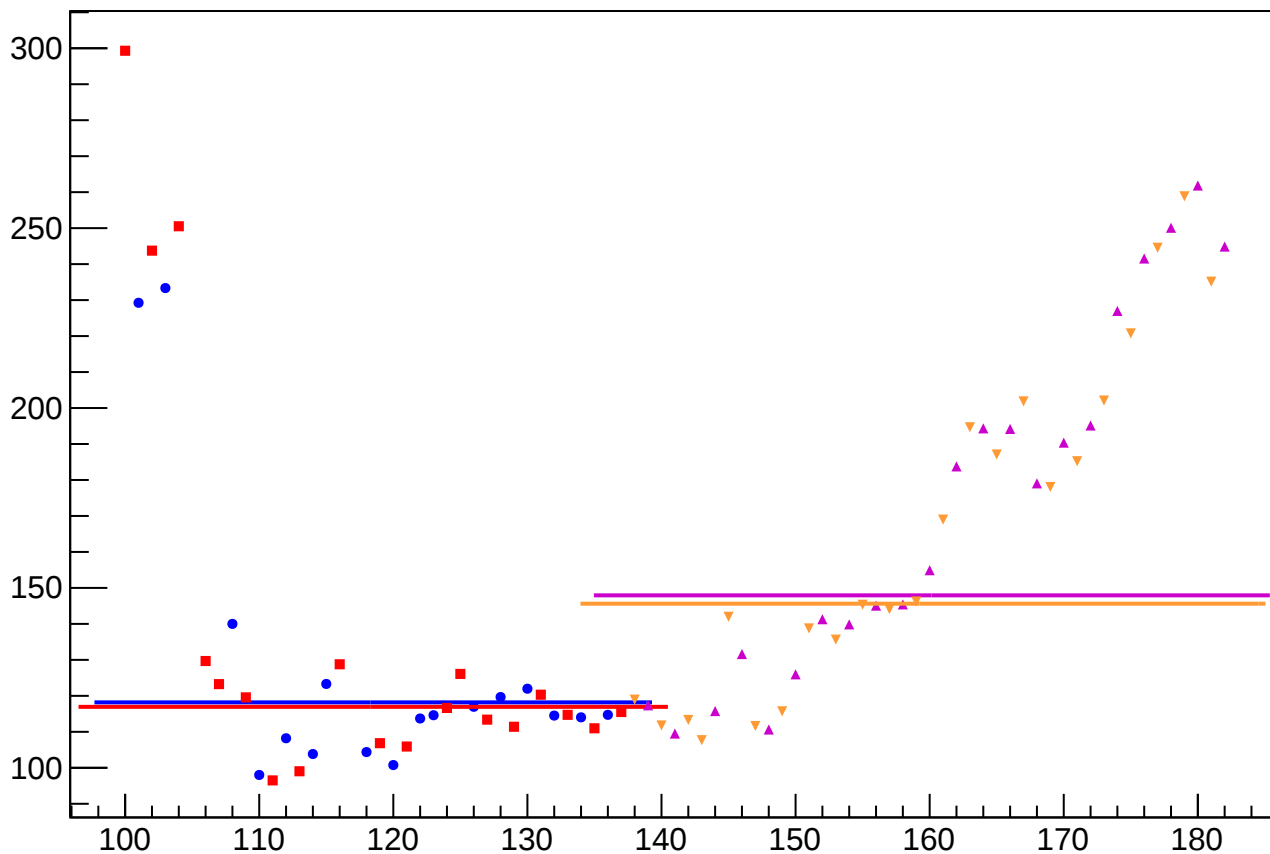
Right: -2101.578 ± 33.470 $\chi^2/\text{NDF}: 29686.5/35$

In: -5183.056 ± 29.581 $\chi^2/\text{NDF}: 44581.5/38$

Out: -3966.055 ± 28.621 $\chi^2/\text{NDF}: 72924.4/41$

All: -4554.488 ± 20.569 $\chi^2/\text{NDF}: 118380.2/8$

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.187 $\pm$ 0.034 χ^2/NDF : 636345.5/16

Left Out: 145.619 $\pm$ 0.026 χ^2/NDF :2211921.8/22

Right Out: 116.944 $\pm$ 0.033 χ^2/NDF : 689368.0/18

Left In: 147.937 $\pm$ 0.026 χ^2/NDF :2302355.1/21

Left: 146.746 $\pm$ 0.018 χ^2/NDF : 4518225.8/44

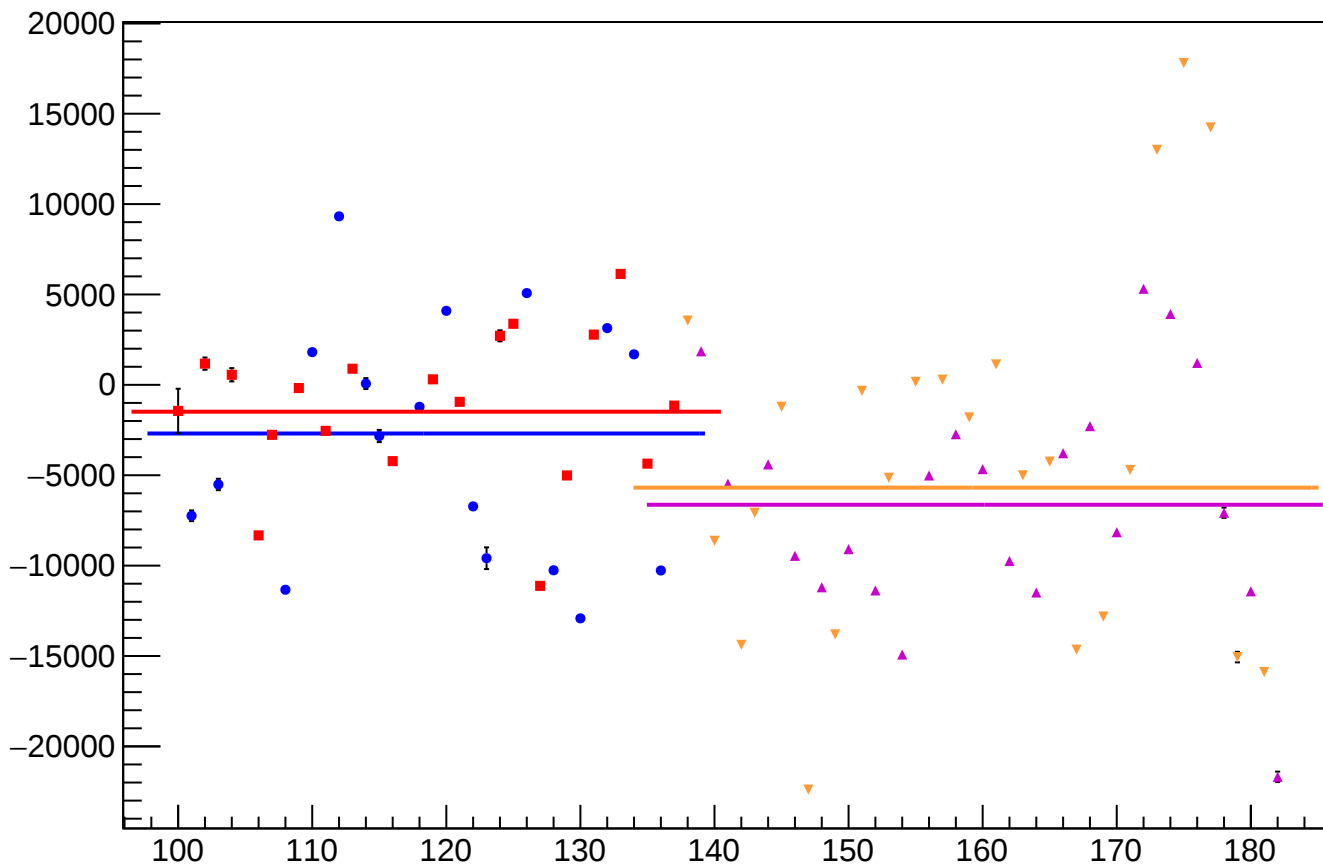
Right: 117.539 $\pm$ 0.024 χ^2/NDF : 1326402.5/35

In: 136.805 $\pm$ 0.021 χ^2/NDF :3412409.2/38

Out: 134.695 $\pm$ 0.020 χ^2/NDF :3374737.2/41

All: 135.715 $\pm$ 0.015 χ^2/NDF : 6792401.2/80

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2691.569 $\pm$ 46.420 χ^2 /NDF: 22847.7/16

Left Out: -5685.794 $\pm$ 35.546 χ^2 /NDF: 64633.4/22

Right Out: -1484.889 $\pm$ 44.421 χ^2 /NDF: 8724.0/18

Left In: -6633.687 $\pm$ 36.487 χ^2 /NDF: 20614.2/21

Left: -6147.359 $\pm$ 25.461 χ^2 /NDF: 85593.8/44

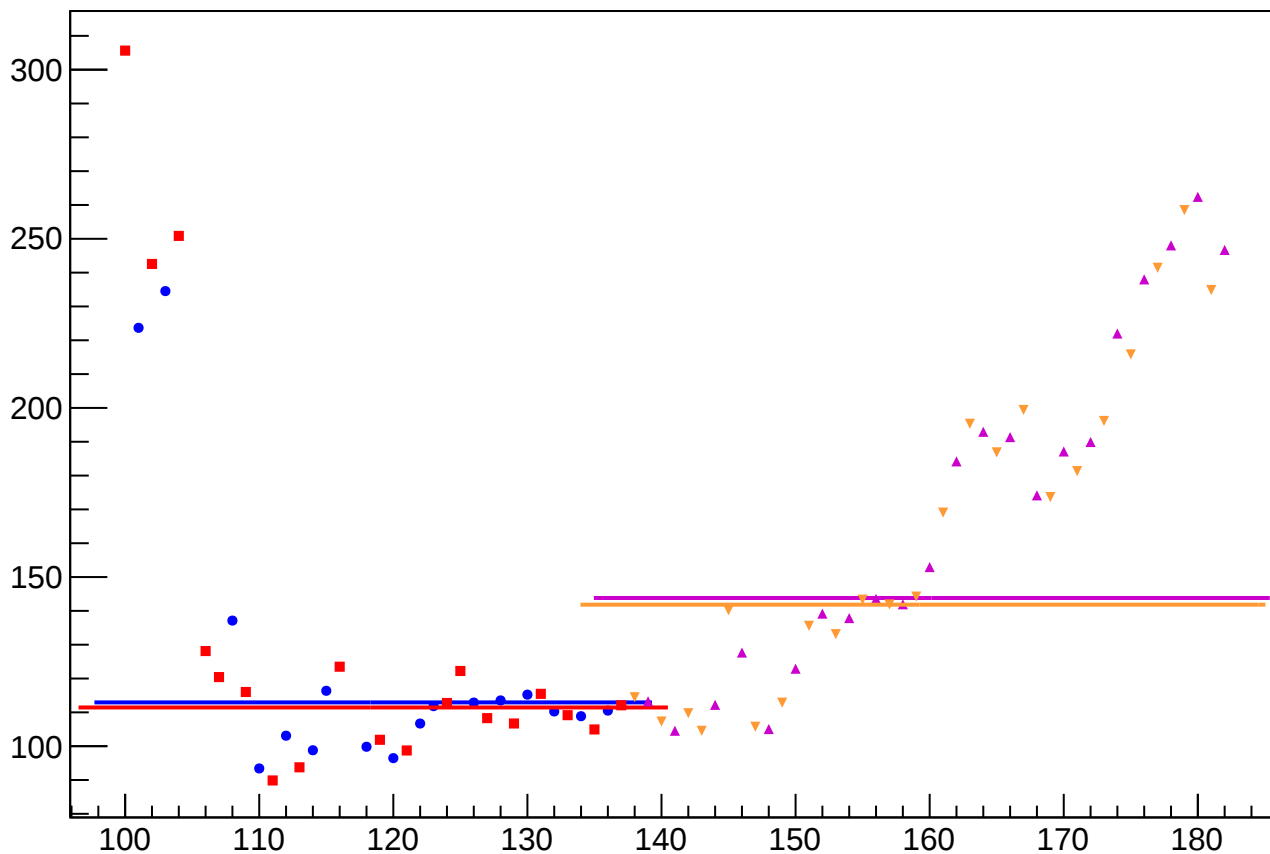
Right: -2061.688 $\pm$ 32.094 χ^2 /NDF: 31924.4/35

In: -5128.220 $\pm$ 28.686 χ^2 /NDF: 47919.7/38

Out: -4045.876 $\pm$ 27.754 χ^2 /NDF: 78809.7/41

All: -4569.176 $\pm$ 19.946 χ^2 /NDF: 127464.6/8

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.944 $\pm$ 0.033 χ^2 /NDF: 680438.6/16

Left Out: 141.833 $\pm$ 0.025 χ^2 /NDF: 2375445.4/22

Right Out: 111.444 $\pm$ 0.031 χ^2 /NDF: 764132.1/18

Left In: 143.813 $\pm$ 0.026 χ^2 /NDF: 2486740.1/21

Left: 142.797 $\pm$ 0.018 χ^2 /NDF: 4865206.8/44

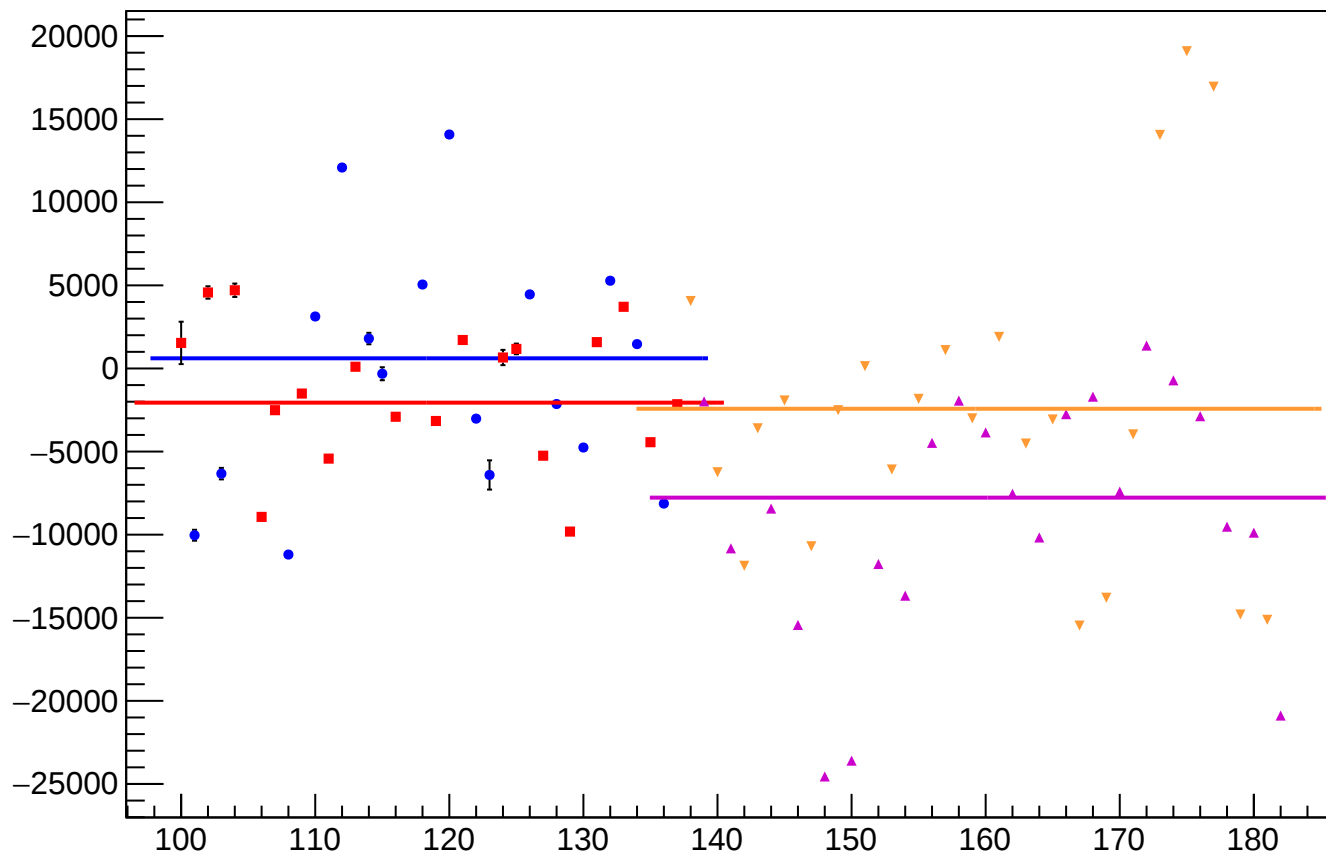
Right: 112.161 $\pm$ 0.023 χ^2 /NDF: 1445660.4/35

In: 132.024 $\pm$ 0.020 χ^2 /NDF: 3713852.5/38

Out: 129.970 $\pm$ 0.020 χ^2 /NDF: 3710193.6/41

All: 130.963 $\pm$ 0.014 χ^2 /NDF: 7429343.2/80

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 610.939 ± 56.154 $\chi^2/\text{NDF}: 18248.2/16$

Left Out: -2425.151 ± 40.178 $\chi^2/\text{NDF}: 42707.6/22$

Right Out: -2057.548 ± 53.904 $\chi^2/\text{NDF}: 4649.5/18$

Left In: -7772.831 ± 41.934 $\chi^2/\text{NDF}: 22129.2/21$

Left: -4984.701 ± 29.011 $\chi^2/\text{NDF}: 73315.9/44$

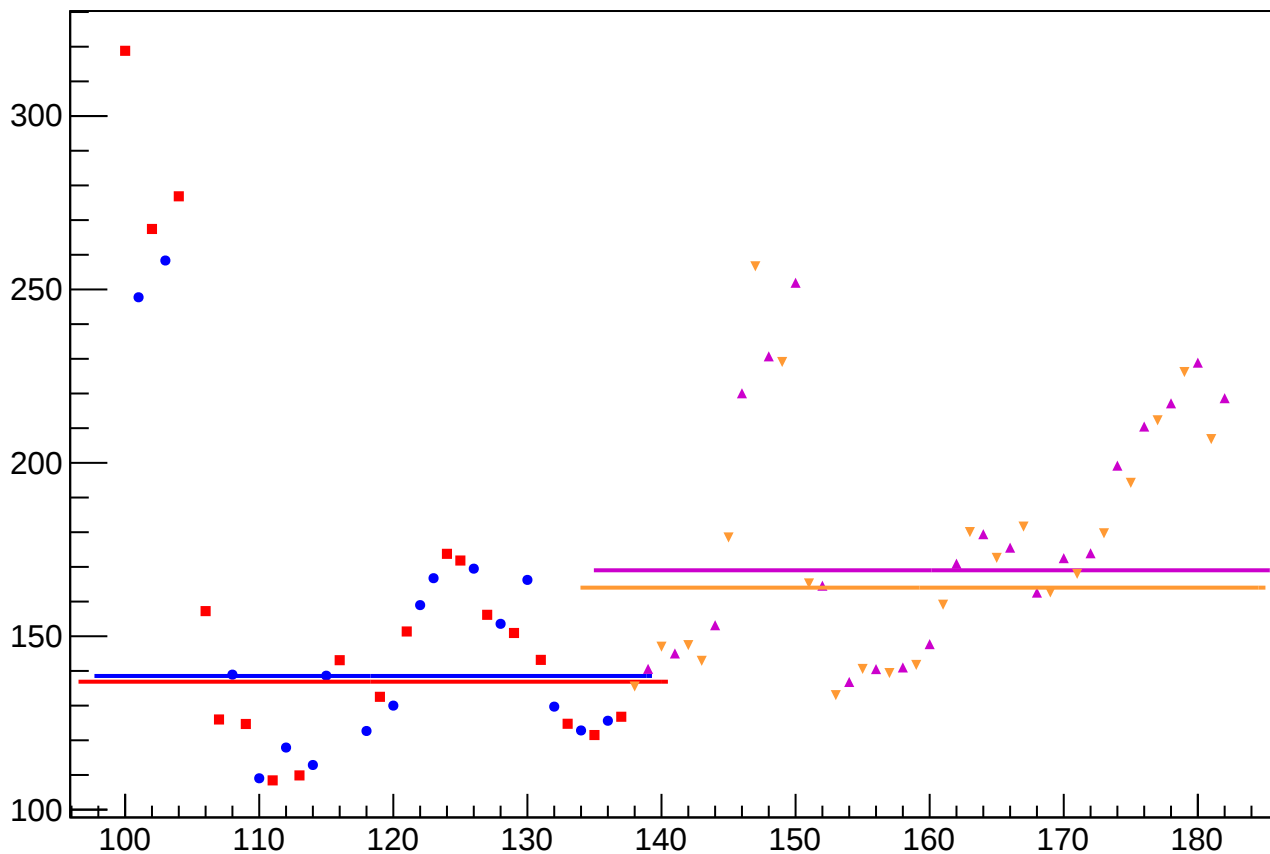
Right: -777.832 ± 38.887 $\chi^2/\text{NDF}: 24073.0/35$

In: -4771.342 ± 33.599 $\chi^2/\text{NDF}: 54687.7/38$

Out: -2293.862 ± 32.214 $\chi^2/\text{NDF}: 47387.1/41$

All: -3480.485 ± 23.253 $\chi^2/\text{NDF}: 104907.6/8$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.549 $\pm$ 0.040 χ^2 /NDF: 667663.4/16

Left Out: 164.016 $\pm$ 0.028 χ^2 /NDF:1033909.6/22

Right Out: 136.895 $\pm$ 0.038 χ^2 /NDF: 751443.4/18

Left In: 169.021 $\pm$ 0.030 χ^2 /NDF:1128120.9/21

Left: 166.412 $\pm$ 0.021 χ^2 /NDF: 2176883.1/44

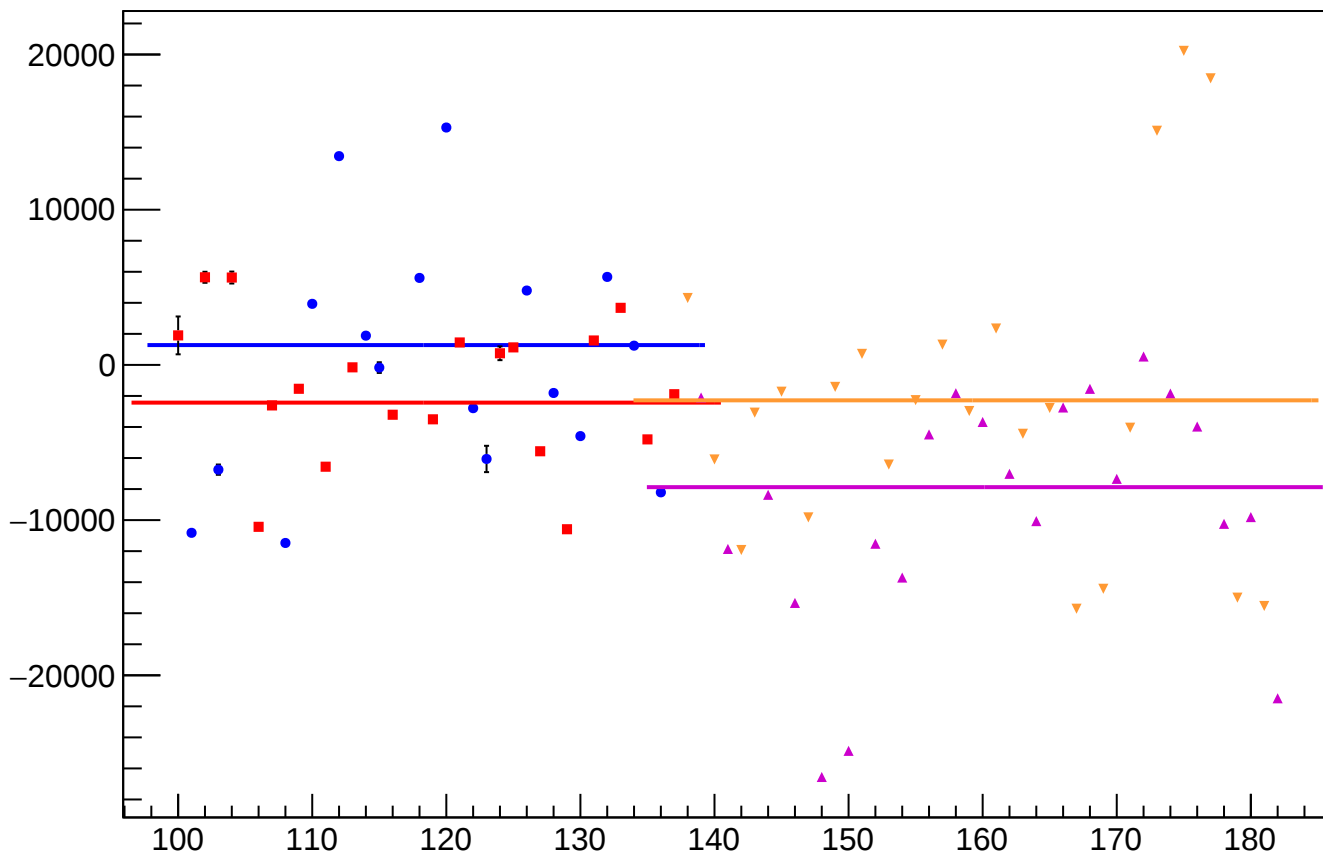
Right: 137.688 $\pm$ 0.027 χ^2 /NDF: 1420010.0/35

In: 158.112 $\pm$ 0.024 χ^2 /NDF:2173874.5/38

Out: 154.330 $\pm$ 0.023 χ^2 /NDF:2110829.9/41

All: 156.141 $\pm$ 0.016 χ^2 /NDF: 4297906.0/80

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1277.751+/-46.646 χ^2 /NDF: 30549.2/16

Left Out: -2283.318+/-36.342 χ^2 /NDF:52854.4/22

Right Out: -2430.297+/-44.264 χ^2 /NDF: 7696.9/18

Left In: -7876.268+/-38.095 χ^2 /NDF:27271.8/21

Left: -4948.179+/-26.296 χ^2 /NDF: 91411.0/44

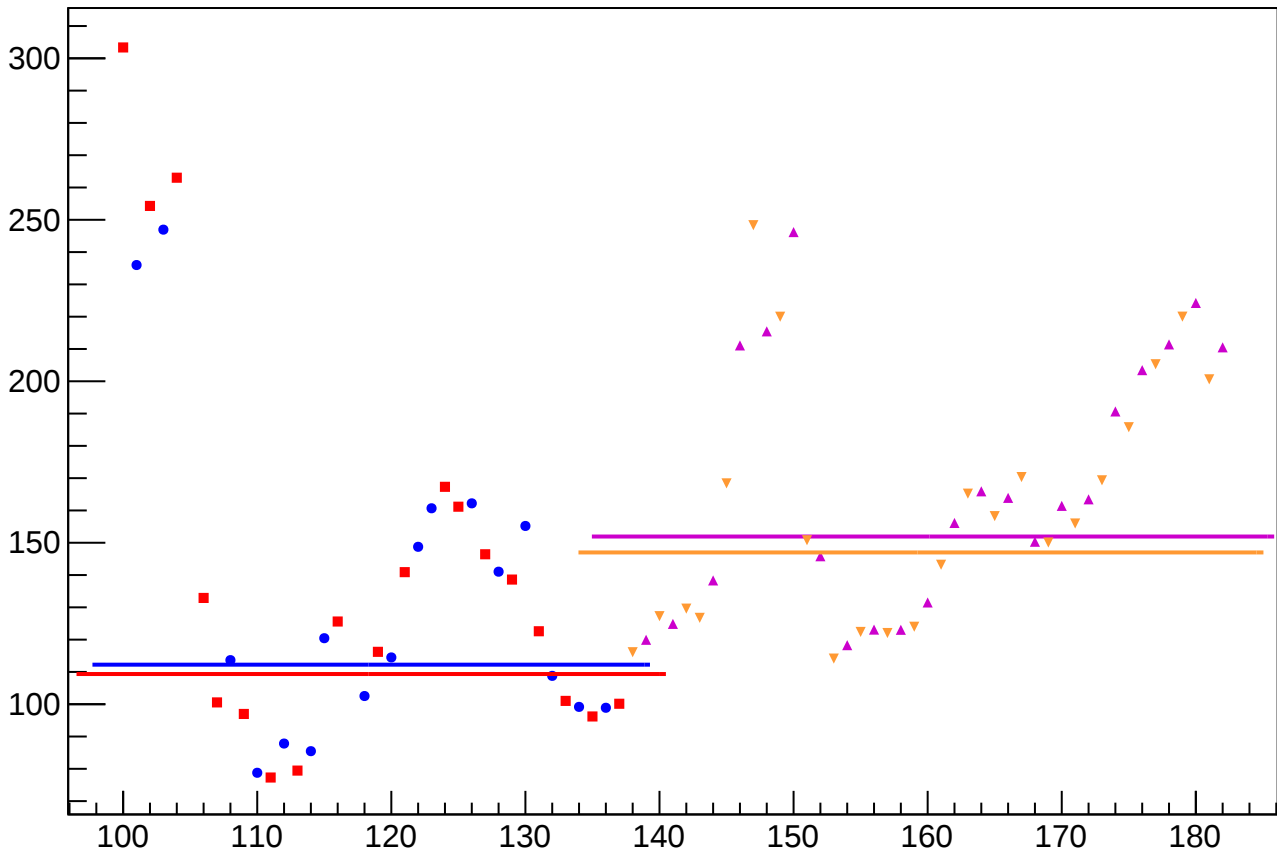
Right: -673.335+/-32.109 χ^2 /NDF: 41571.1/35

In: -4213.659+/-29.505 χ^2 /NDF:80924.0/38

Out: -2342.500+/-28.088 χ^2 /NDF:60557.9/41

All: -3232.061+/-20.344 χ^2 /NDF: 143591.7/8

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.247 $\pm$ 0.033 χ^2 /NDF: 1123602.1/16

Left Out: 146.997 $\pm$ 0.026 χ^2 /NDF: 1529833.9/22

Right Out: 109.351 $\pm$ 0.031 χ^2 /NDF: 1263029.6/18

Left In: 151.928 $\pm$ 0.027 χ^2 /NDF: 1647180.8/21

Left: 149.346 $\pm$ 0.019 χ^2 /NDF: 3194556.2/44

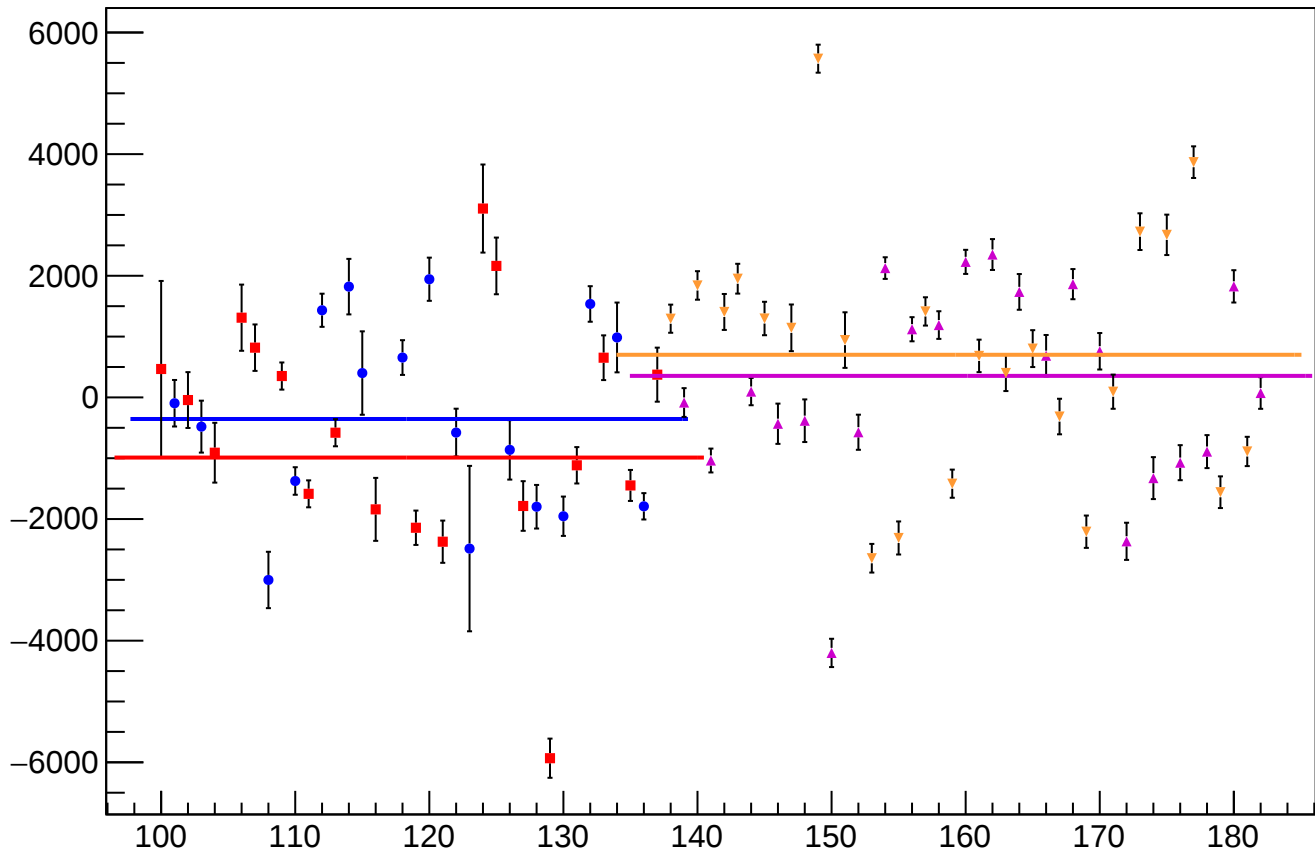
Right: 110.723 $\pm$ 0.023 χ^2 /NDF: 2390689.7/35

In: 136.051 $\pm$ 0.021 χ^2 /NDF: 3638988.9/38

Out: 131.838 $\pm$ 0.020 χ^2 /NDF: 3656995.4/41

All: 133.841 $\pm$ 0.014 χ^2 /NDF: 7317373.0/80

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Left: 519.354 $\pm$ 38.663 χ^2/NDF : 2418.0/44

Right: -696.988 $\pm$ 57.026 χ^2/NDF : 818.5/35

In: 149.815 $\pm$ 45.092 χ^2/NDF : 1341.7/38

Out: 122.608 $\pm$ 45.423 χ^2/NDF : 2206.3/41

All: 136.311 $\pm$ 32.001 χ^2/NDF : 3548.2/80

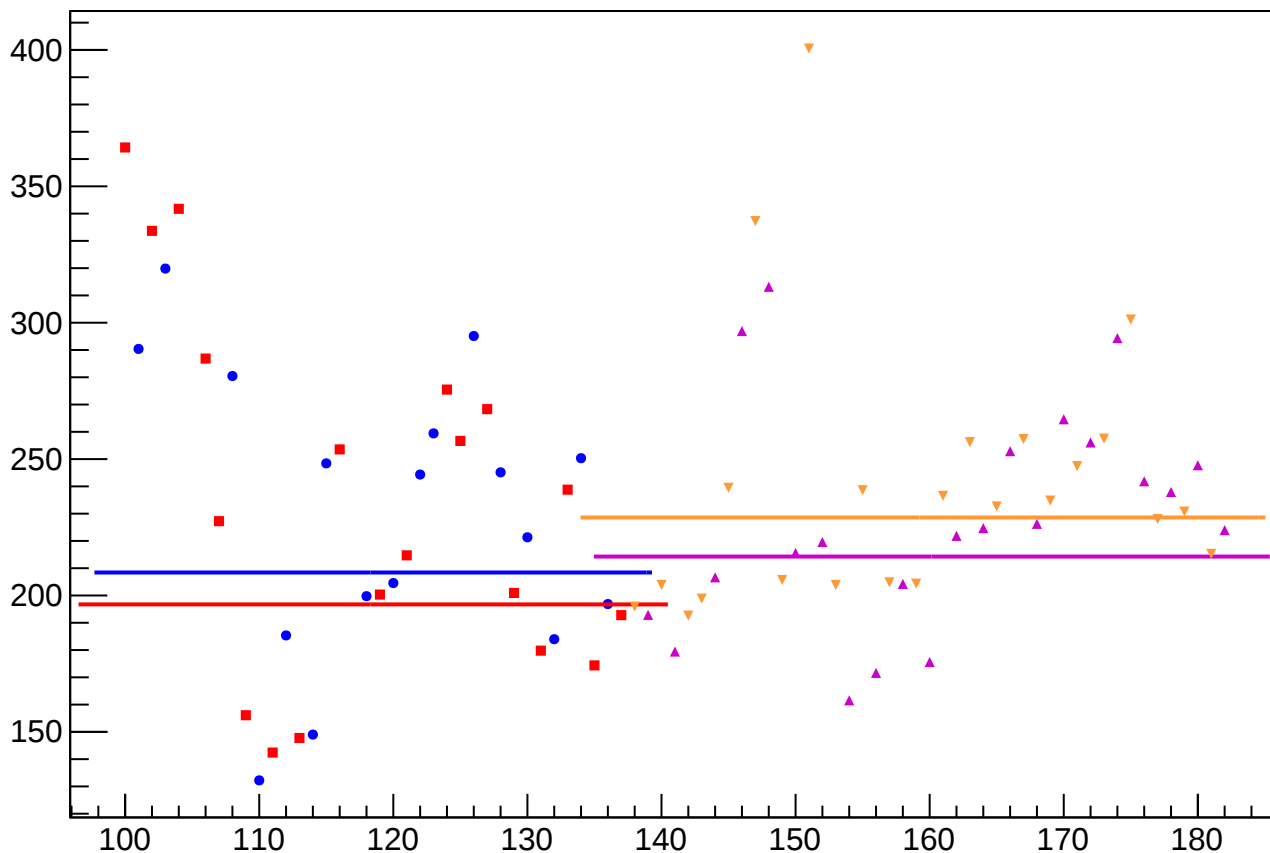
Right In: -354.938 $\pm$ 84.016 χ^2/NDF : 310.6/16

Left Out: 700.886 $\pm$ 56.003 χ^2/NDF : 1417.5/22

Right Out: -989.192 $\pm$ 77.653 χ^2/NDF : 477.2/18

Left In: 354.047 $\pm$ 53.442 χ^2/NDF : 980.4/21

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.429+/-0.059 χ^2/NDF : 696957.4/16

Left Out: 228.598+/-0.040 χ^2/NDF : 823938.6/22

Right Out: 196.731+/-0.055 χ^2/NDF : 925461.3/18

Left In: 214.272+/-0.038 χ^2/NDF : 1018901.9/21

Left: 221.100+/-0.027 χ^2/NDF : 1911338.2/44

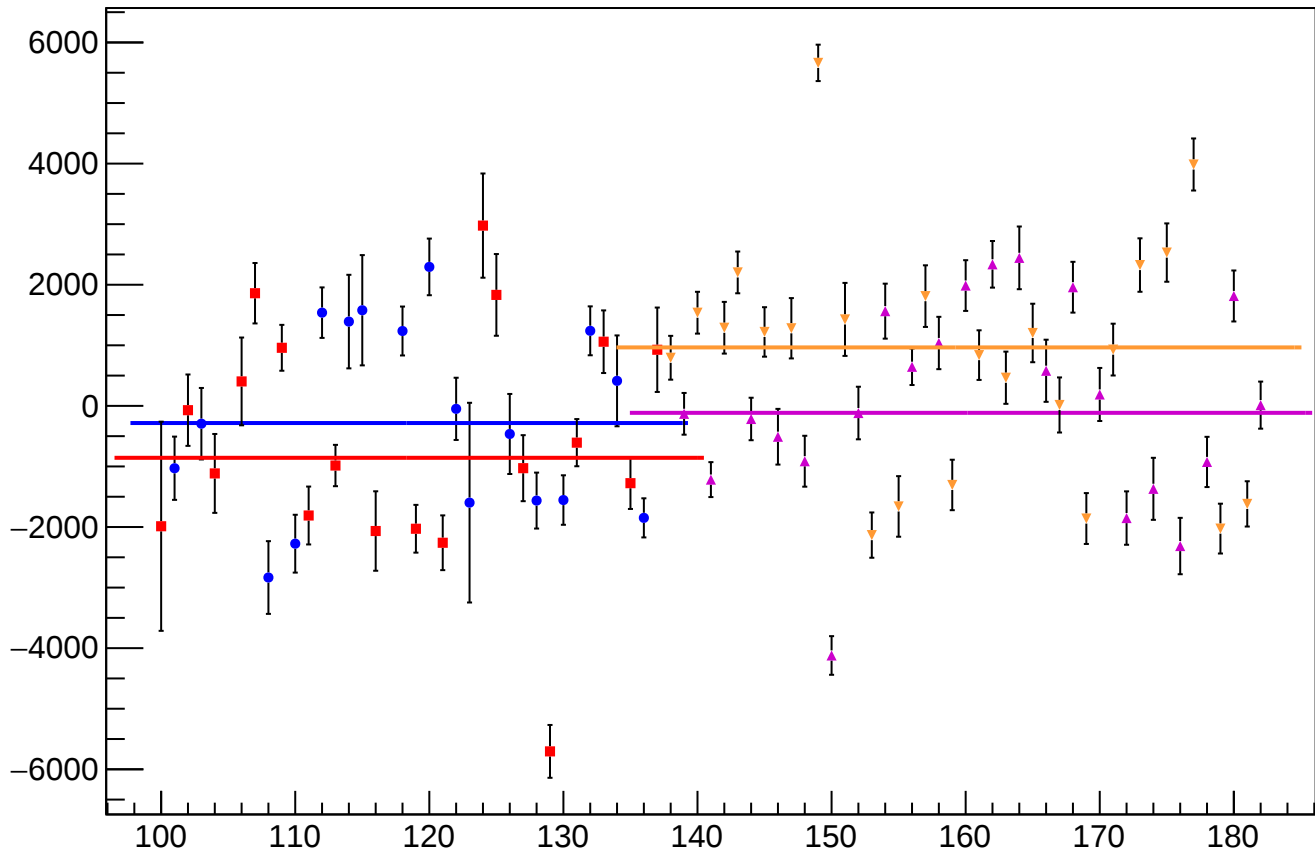
Right: 202.120+/-0.040 χ^2/NDF : 1643330.9/35

In: 212.589+/-0.032 χ^2/NDF : 1722746.9/38

Out: 217.694+/-0.032 χ^2/NDF : 1970983.8/41

All: 215.123+/-0.023 χ^2/NDF : 3706455.5/80

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -283.146 ± 121.564 $\chi^2/\text{NDF}: 166.9/16$

Left Out: 965.319 ± 86.353 $\chi^2/\text{NDF}: 612.4/22$

Right Out: -857.162 ± 115.341 $\chi^2/\text{NDF}: 265.0/18$

Left In: -114.841 ± 85.160 $\chi^2/\text{NDF}: 389.7/21$

Left: 417.729 ± 60.635 $\chi^2/\text{NDF}: 1081.4/44$

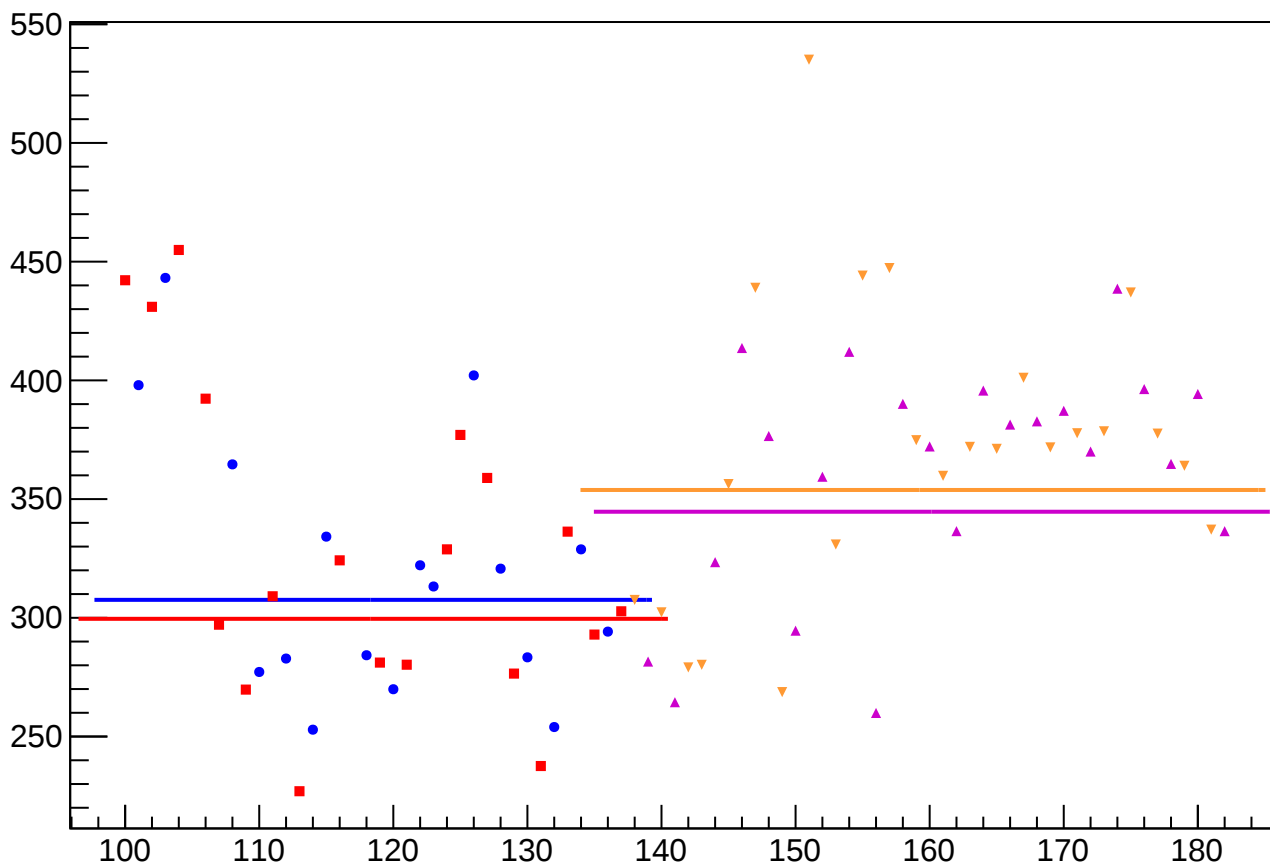
Right: -585.220 ± 83.672 $\chi^2/\text{NDF}: 443.7/35$

In: -170.247 ± 69.748 $\chi^2/\text{NDF}: 557.9/38$

Out: 310.712 ± 69.126 $\chi^2/\text{NDF}: 1037.4/41$

All: 72.386 ± 49.098 $\chi^2/\text{NDF}: 1619.3/80$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.566+/-0.086 χ^2/NDF : 321522.0/16

Left Out: 353.841+/-0.061 χ^2/NDF : 890445.6/22

Right Out: 299.577+/-0.082 χ^2/NDF : 493549.3/18

Left In: 344.675+/-0.060 χ^2/NDF : 768363.6/21

Left: 349.194+/-0.043 χ^2/NDF : 1670231.7/44

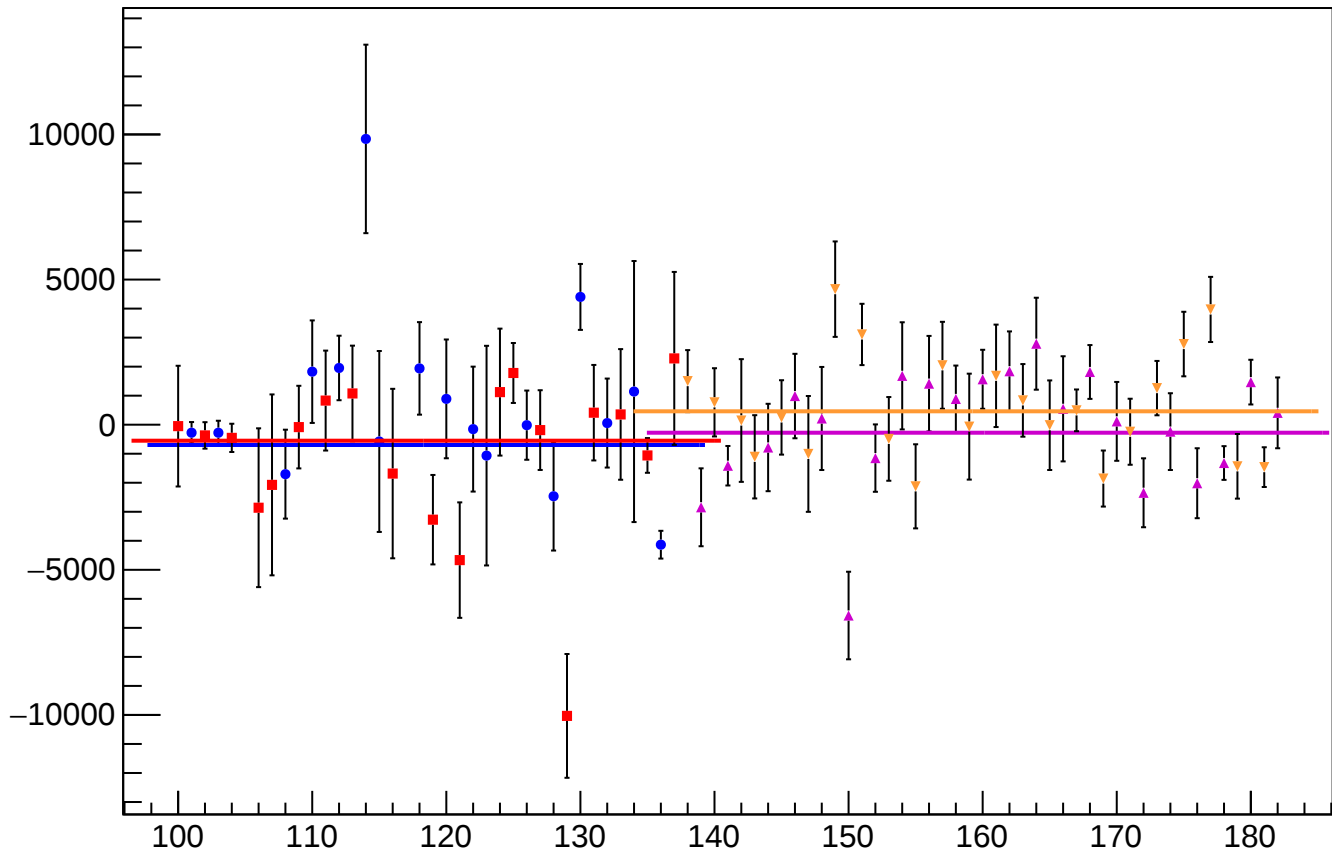
Right: 303.362+/-0.059 χ^2/NDF : 819617.4/35

In: 332.459+/-0.049 χ^2/NDF : 1214902.9/38

Out: 334.350+/-0.049 χ^2/NDF : 1667664.5/41

All: 333.413+/-0.035 χ^2/NDF : 2883309.1/80

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -699.406 ± 210.504 χ^2/NDF : 97.9/16

Left Out: 461.232 ± 242.651 χ^2/NDF : 52.9/22

Right Out: -551.457 ± 243.420 χ^2/NDF : 38.1/18

Left In: -276.686 ± 237.376 χ^2/NDF : 57.2/21

Left: 84.166 ± 169.685 χ^2/NDF : 114.8/44

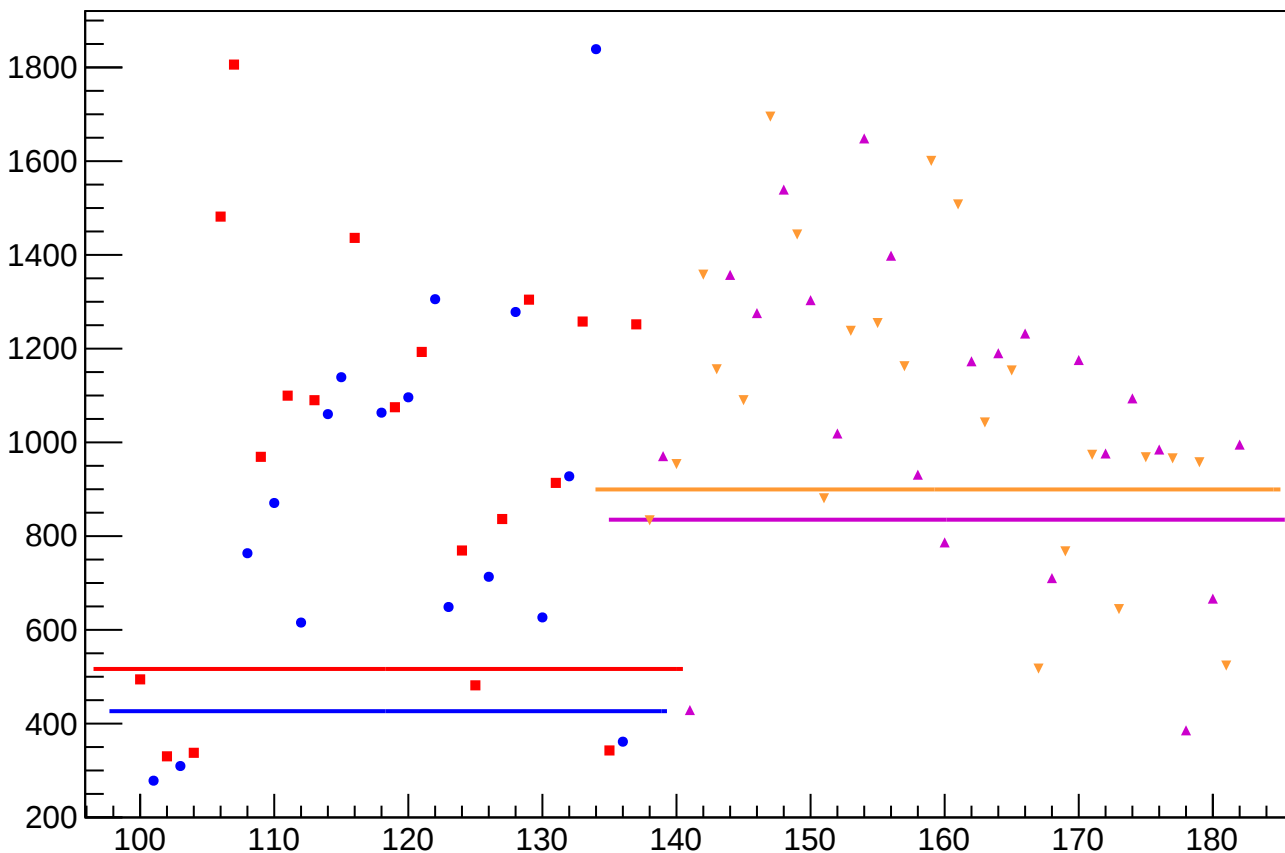
Right: -636.104 ± 159.224 χ^2/NDF : 136.3/35

In: -513.318 ± 157.496 χ^2/NDF : 156.9/38

Out: -43.510 ± 171.852 χ^2/NDF : 99.7/41

All: -298.853 ± 116.111 χ^2/NDF : 260.7/80

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 426.522 $\pm$ 0.149 χ^2 /NDF: 2863074.2/16

Left Out: 899.590 $\pm$ 0.172 χ^2 /NDF:3038269.1/22

Right Out: 516.598 $\pm$ 0.172 χ^2 /NDF: 3598022.9/18

Left In: 835.054 $\pm$ 0.168 χ^2 /NDF:4299607.5/21

Left: 866.613 $\pm$ 0.120 χ^2 /NDF: 7410166.0/44

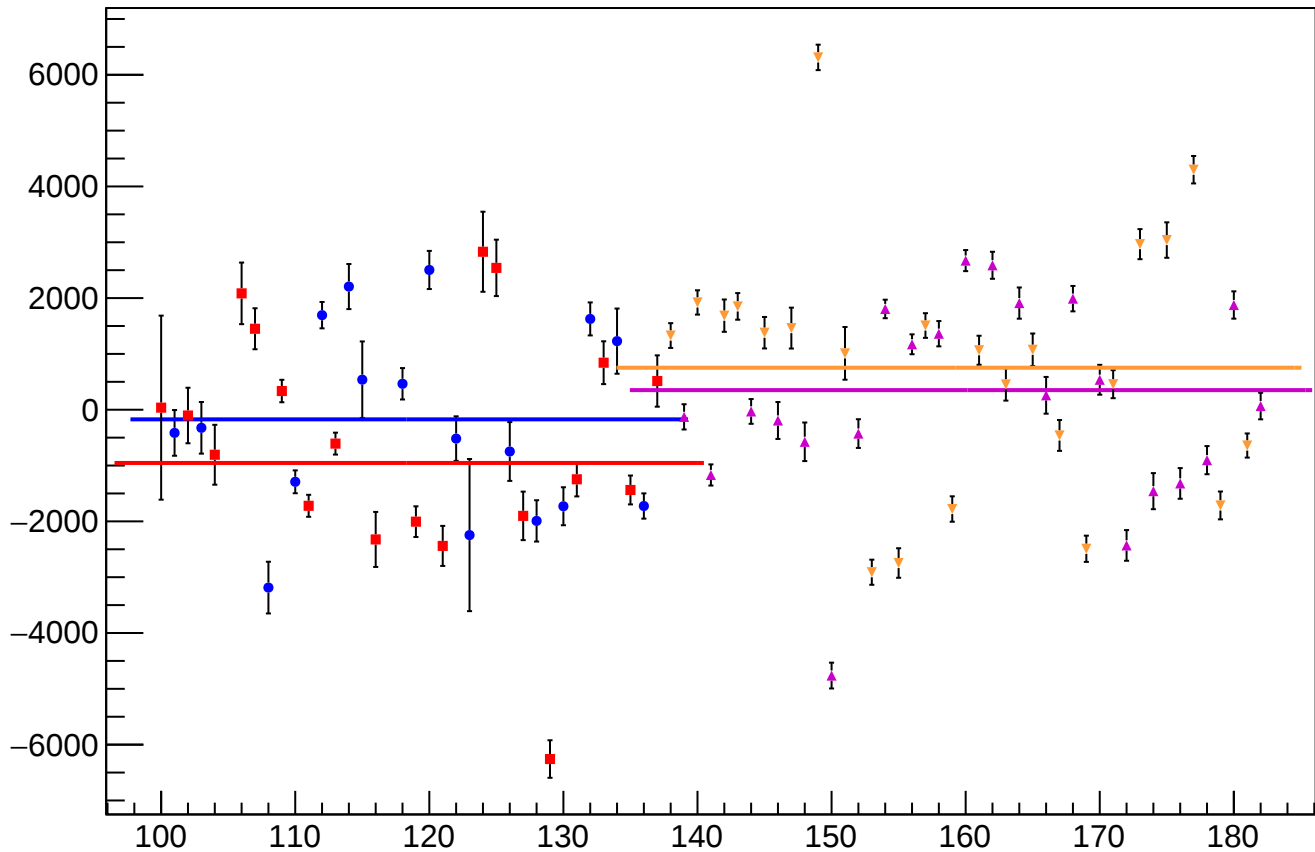
Right: 465.062 $\pm$ 0.113 χ^2 /NDF: 6617785.8/35

In: 606.364 $\pm$ 0.111 χ^2 /NDF:10478787.3/38

Out: 708.700 $\pm$ 0.122 χ^2 /NDF:9119637.7/41

All: 653.080 $\pm$ 0.082 χ^2 /NDF: 19983886.0/80

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -172.521+/-82.544 χ^2/NDF : 376.5/16

Left Out: 752.839+/-53.316 χ^2/NDF :1928.5/22

Right Out: -953.457+/-75.104 χ^2/NDF : 541.2/18

Left In: 351.405+/-50.449 χ^2/NDF :1252.9/21

Left: 541.041+/-36.645 χ^2/NDF : 3211.3/44

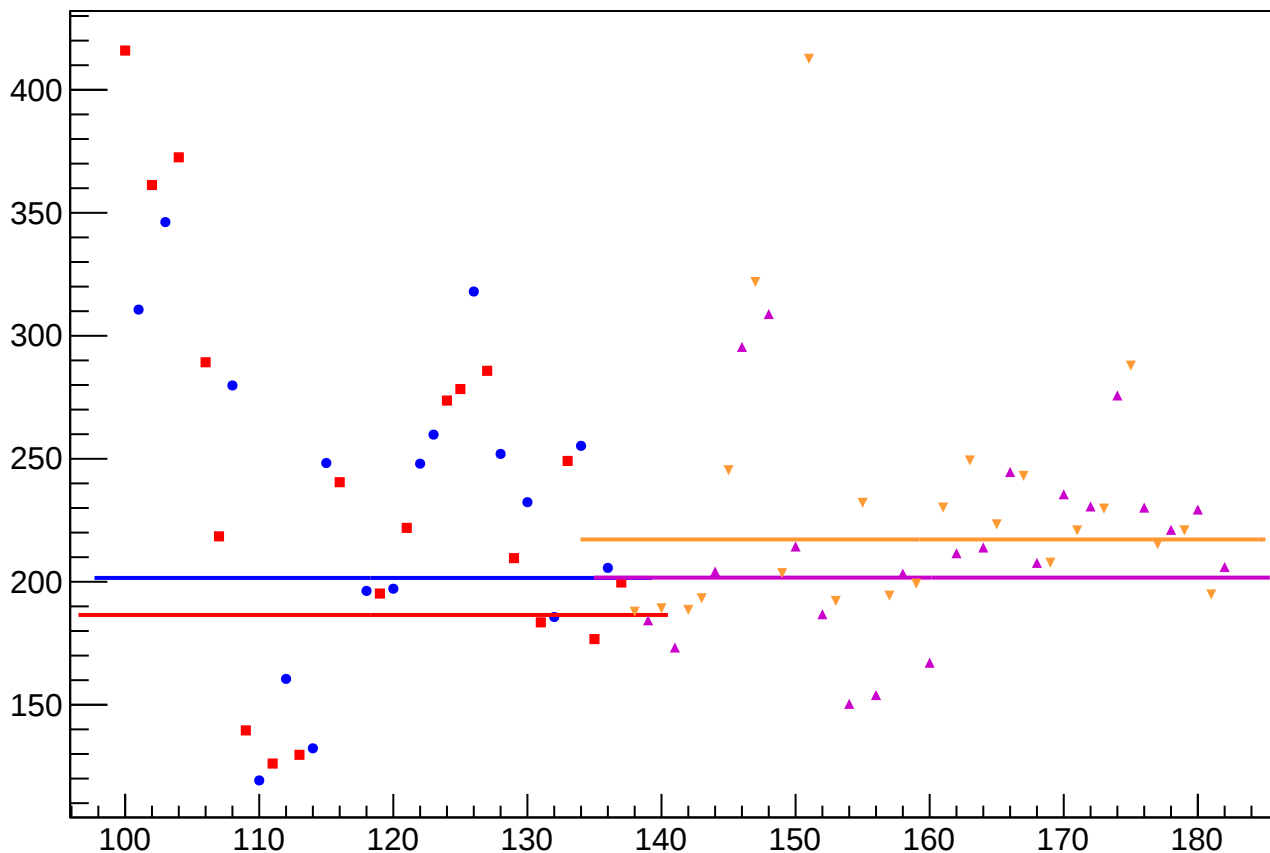
Right: -599.765+/-55.551 χ^2/NDF : 966.7/35

In: 208.922+/-43.046 χ^2/NDF :1658.8/38

Out: 181.086+/-43.475 χ^2/NDF :2812.9/41

All: 195.142+/-30.589 χ^2/NDF : 4471.8/80

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.572+/-0.058 χ^2/NDF : 1052330.1/16

Left Out: 217.205+/-0.038 χ^2/NDF : 882780.1/22

Right Out: 186.520+/-0.053 χ^2/NDF : 1388400.1/18

Left In: 201.694+/-0.036 χ^2/NDF : 1086628.9/21

Left: 209.021+/-0.026 χ^2/NDF : 2058728.9/44

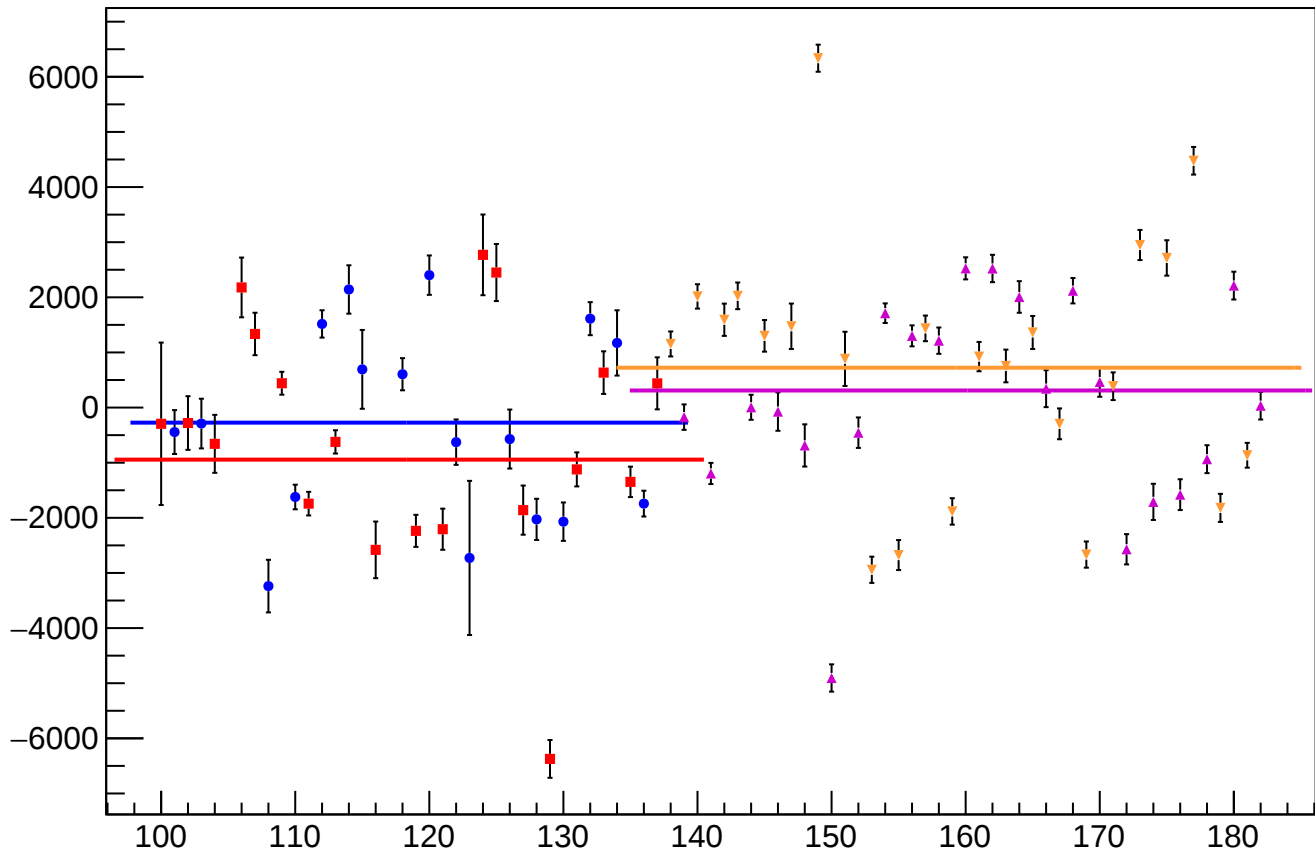
Right: 193.337+/-0.039 χ^2/NDF : 2477113.4/35

In: 201.660+/-0.030 χ^2/NDF : 2138962.2/38

Out: 206.923+/-0.031 χ^2/NDF : 2493170.9/41

All: 204.266+/-0.022 χ^2/NDF : 4646931.5/80

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -273.296 ± 85.630 $\chi^2/\text{NDF}: 362.8/16$

Left Out: 722.905 ± 54.904 $\chi^2/\text{NDF}: 1828.2/22$

Right Out: -944.335 ± 78.399 $\chi^2/\text{NDF}: 524.4/18$

Left In: 309.980 ± 52.401 $\chi^2/\text{NDF}: 1206.5/21$

Left: 506.814 ± 37.907 $\chi^2/\text{NDF}: 3064.4/44$

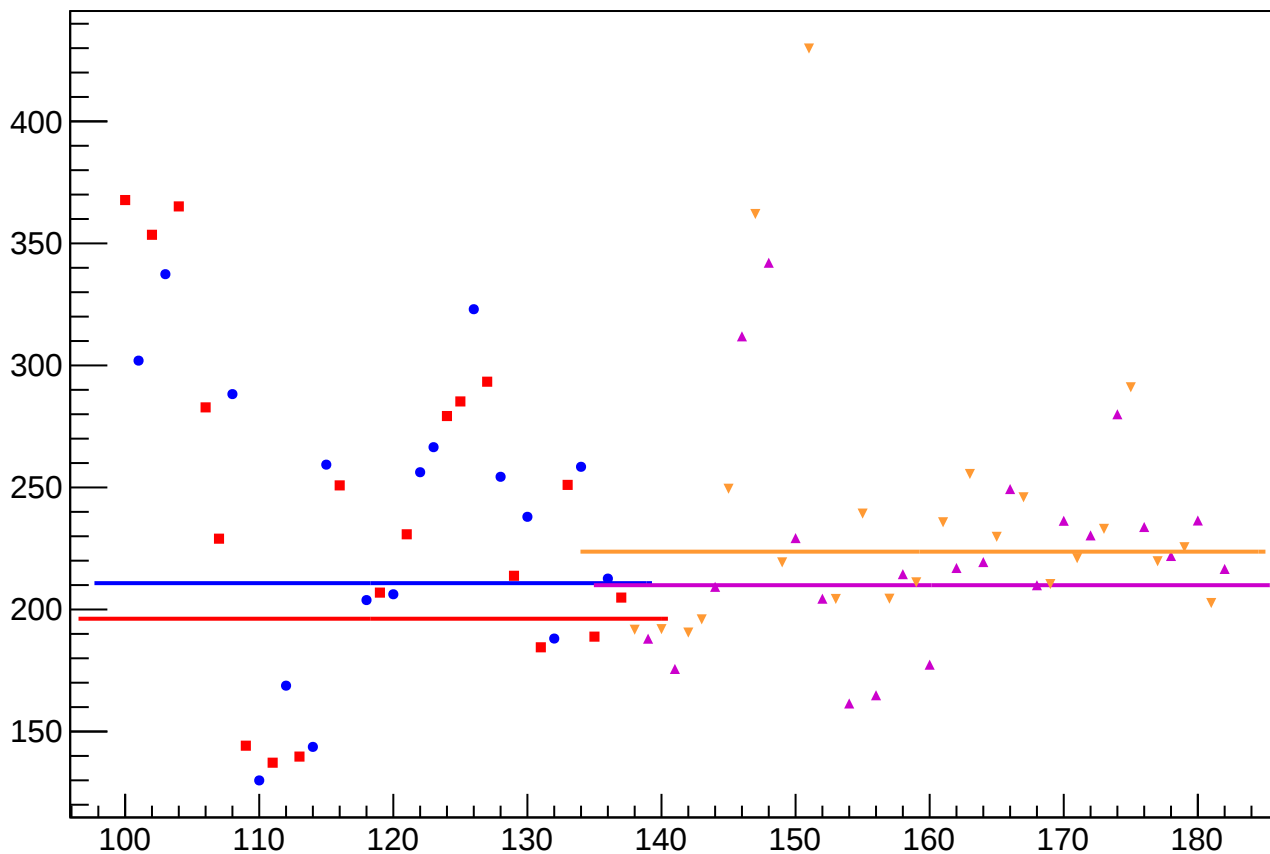
Right: -638.342 ± 57.824 $\chi^2/\text{NDF}: 920.6/35$

In: 151.067 ± 44.696 $\chi^2/\text{NDF}: 1603.1/38$

Out: 174.284 ± 44.972 $\chi^2/\text{NDF}: 2656.0/41$

All: 162.604 ± 31.702 $\chi^2/\text{NDF}: 4259.2/80$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.791+/-0.061 χ^2/NDF : 873120.0/16

Left Out: 223.696+/-0.039 χ^2/NDF : 922092.9/22

Right Out: 196.216+/-0.055 χ^2/NDF : 1201600.7/18

Left In: 209.955+/-0.037 χ^2/NDF : 1014555.7/21

Left: 216.505+/-0.027 χ^2/NDF : 2002210.2/44

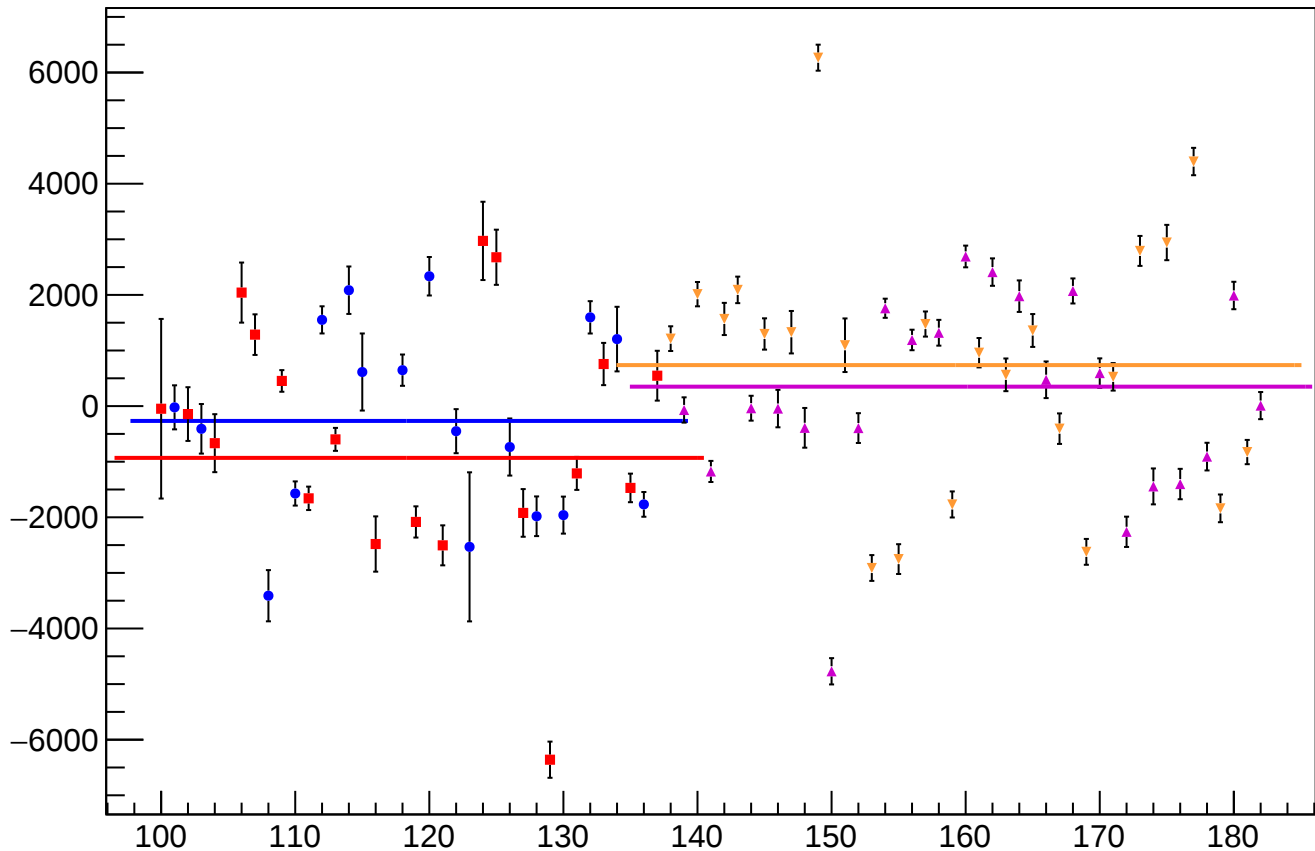
Right: 202.862+/-0.041 χ^2/NDF : 2106241.2/35

In: 210.183+/-0.032 χ^2/NDF : 1887814.4/38

Out: 214.654+/-0.032 χ^2/NDF : 2288561.4/41

All: 212.404+/-0.022 χ^2/NDF : 4186320.4/80

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -266.674 $\pm$ 82.997 χ^2/NDF : 383.4/16

Left Out: 737.416 $\pm$ 53.788 χ^2/NDF :1903.9/22

Right Out: -931.196 $\pm$ 75.469 χ^2/NDF : 584.4/18

Left In: 349.733 $\pm$ 51.212 χ^2/NDF :1199.8/21

Left: 534.068 $\pm$ 37.089 χ^2/NDF : 3131.0/44

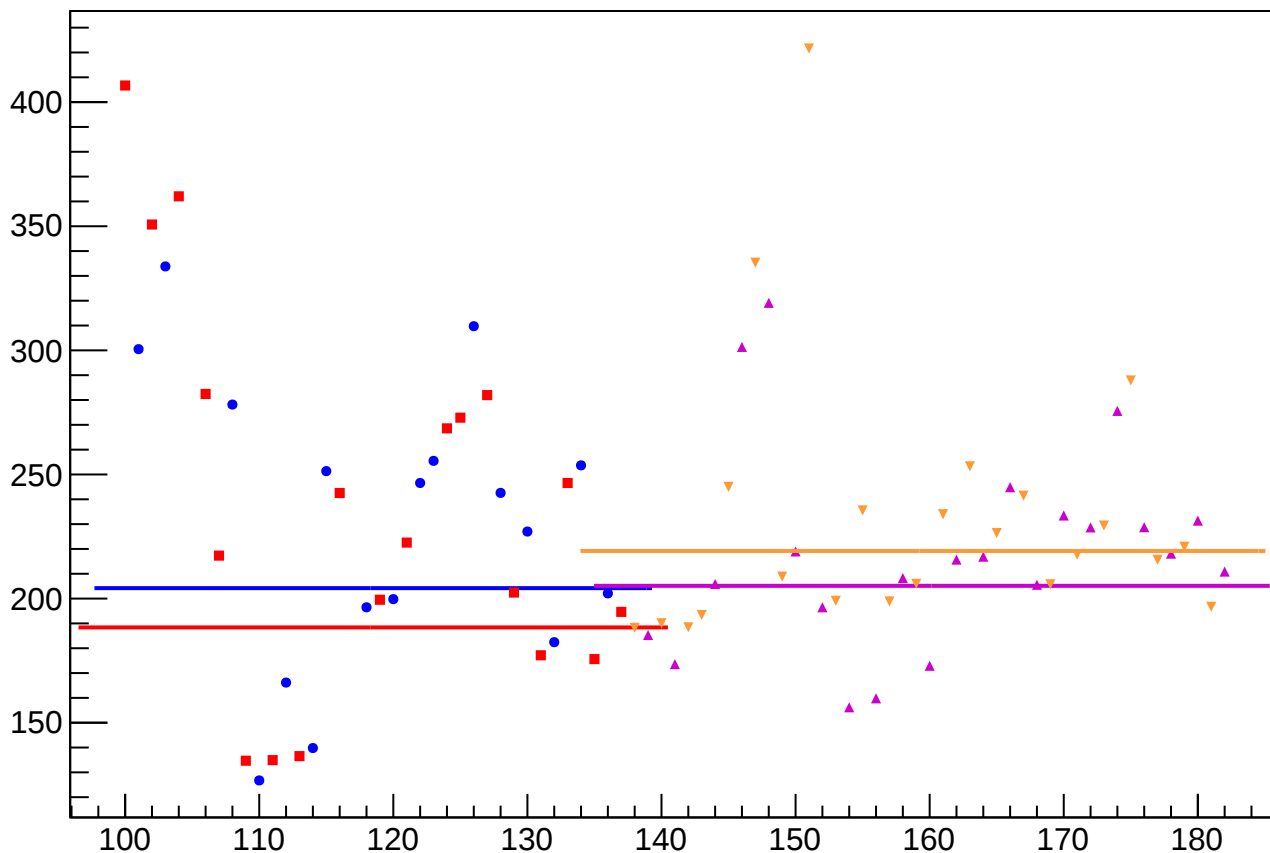
Right: -630.431 $\pm$ 55.837 χ^2/NDF : 1002.9/35

In: 179.762 $\pm$ 43.583 χ^2/NDF :1623.2/38

Out: 175.340 $\pm$ 43.802 χ^2/NDF :2812.5/41

All: 177.562 $\pm$ 30.895 χ^2/NDF : 4435.7/80

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.211+/-0.059 χ^2/NDF : 866108.6/16

Left Out: 219.181+/-0.038 χ^2/NDF : 896155.1/22

Right Out: 188.384+/-0.053 χ^2/NDF : 1247760.0/18

Left In: 205.134+/-0.036 χ^2/NDF : 996540.2/21

Left: 211.813+/-0.026 χ^2/NDF : 1964239.9/44

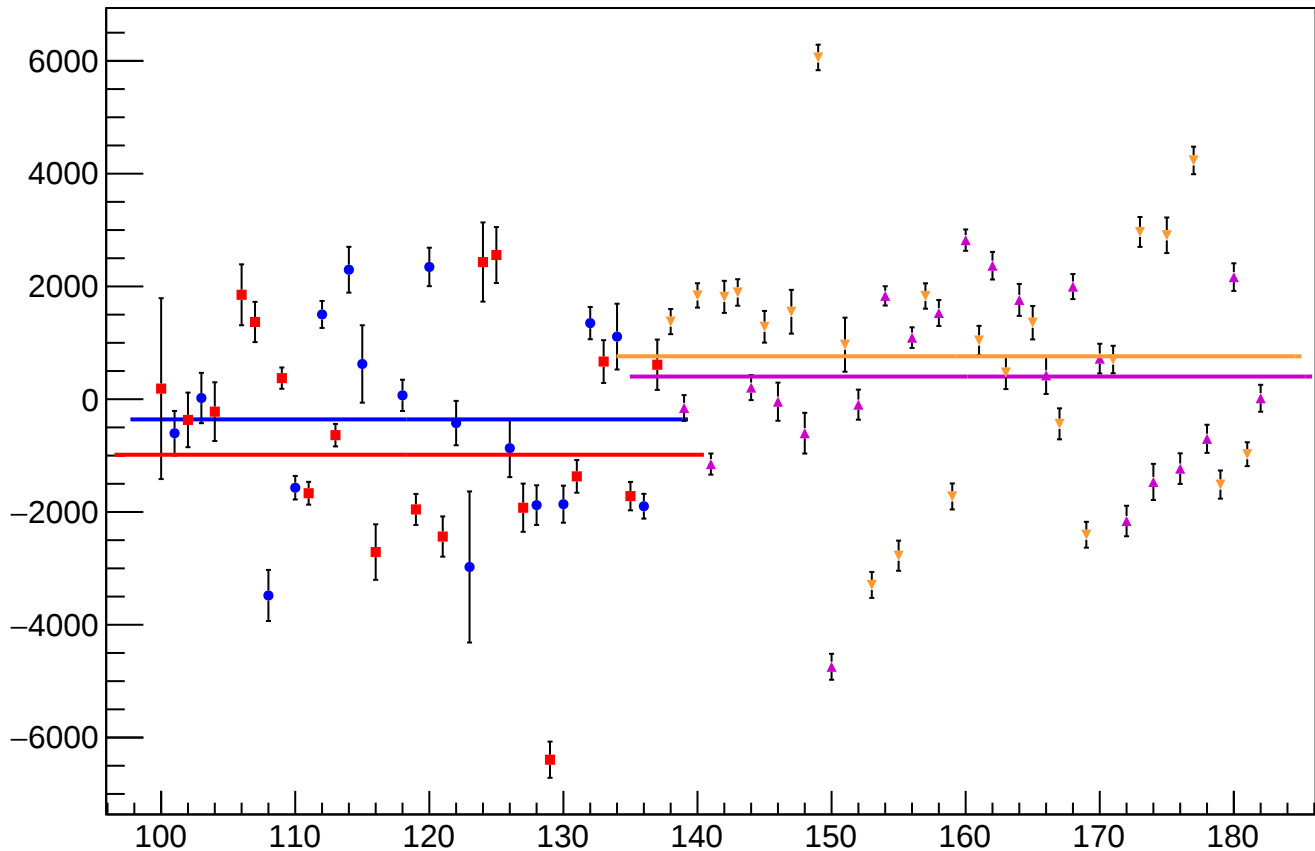
Right: 195.548+/-0.039 χ^2/NDF : 2153679.4/35

In: 204.880+/-0.031 χ^2/NDF : 1862828.0/38

Out: 208.807+/-0.031 χ^2/NDF : 2364773.1/41

All: 206.834+/-0.022 χ^2/NDF : 4235680.6/80

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -357.821±/81.517 χ^2/NDF : 388.2/16

Left Out: 761.066±/53.252 χ^2/NDF :1931.5/22

Right Out: -984.342±/73.851 χ^2/NDF : 588.2/18

Left In: 401.957±/50.725 χ^2/NDF :1235.0/21

Left: 572.790±/36.729 χ^2/NDF : 3190.3/44

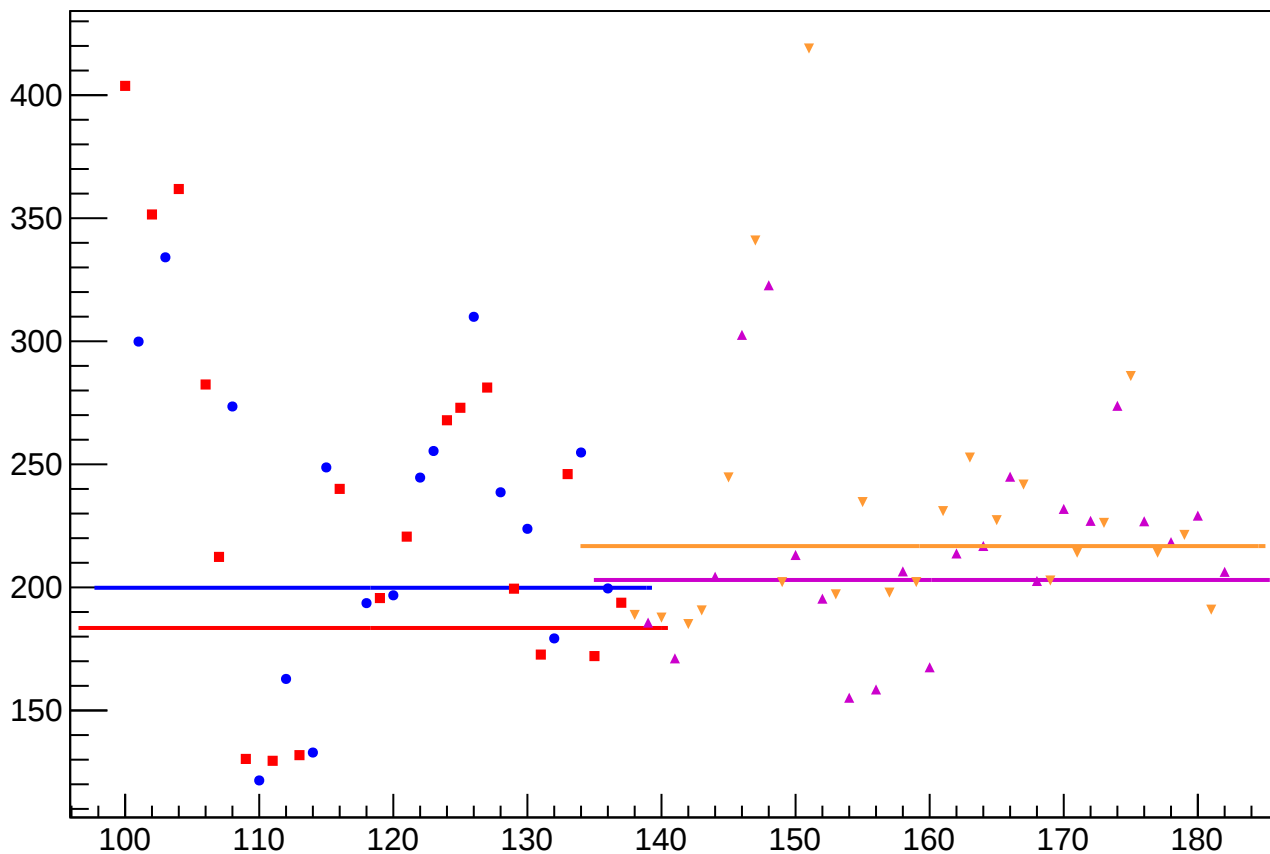
Right: -701.918±/54.731 χ^2/NDF : 1008.9/35

In: 189.878±/43.068 χ^2/NDF :1685.9/38

Out: 163.995±/43.194 χ^2/NDF :2887.2/41

All: 176.975±/30.498 χ^2/NDF : 4573.3/80

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.847 ± 0.058 $\chi^2/\text{NDF}: 940786.8/16$

Left Out: 216.782 ± 0.038 $\chi^2/\text{NDF}: 943119.9/22$

Right Out: 183.513 ± 0.052 $\chi^2/\text{NDF}: 1345883.7/18$

Left In: 203.020 ± 0.036 $\chi^2/\text{NDF}: 1037697.5/21$

Left: 209.567 ± 0.026 $\chi^2/\text{NDF}: 2050855.1/44$

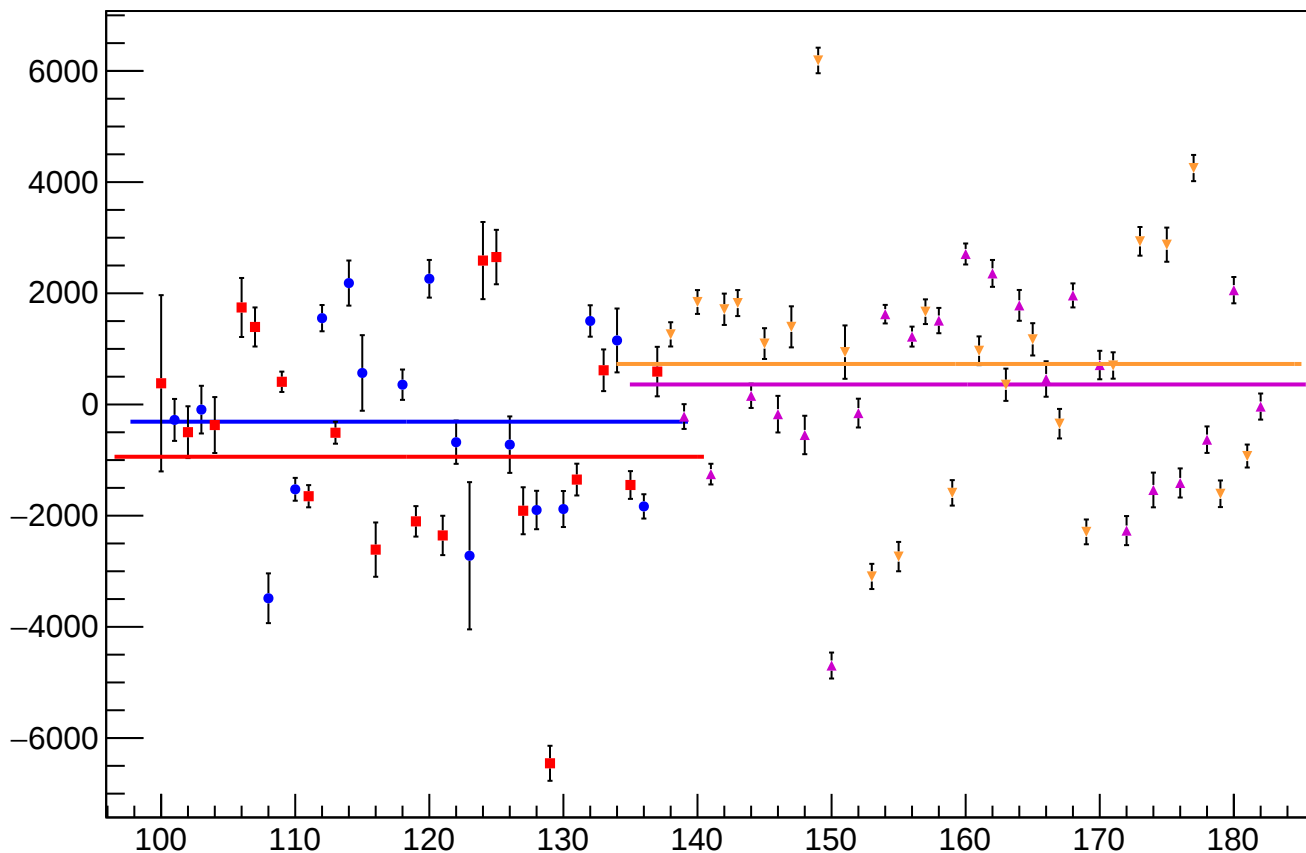
Right: 190.876 ± 0.039 $\chi^2/\text{NDF}: 2330772.3/35$

In: 202.134 ± 0.030 $\chi^2/\text{NDF}: 1980668.0/38$

Out: 205.402 ± 0.031 $\chi^2/\text{NDF}: 2556038.4/41$

All: 203.763 ± 0.022 $\chi^2/\text{NDF}: 4542445.7/80$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -309.418+/-80.357 χ^2/NDF : 396.4/16

Left Out: 728.950+/-52.305 χ^2/NDF :1921.9/22

Right Out: -940.123+/-72.716 χ^2/NDF : 616.8/18

Left In: 360.113+/-49.705 χ^2/NDF :1231.5/21

Left: 535.139+/-36.031 χ^2/NDF : 3179.5/44

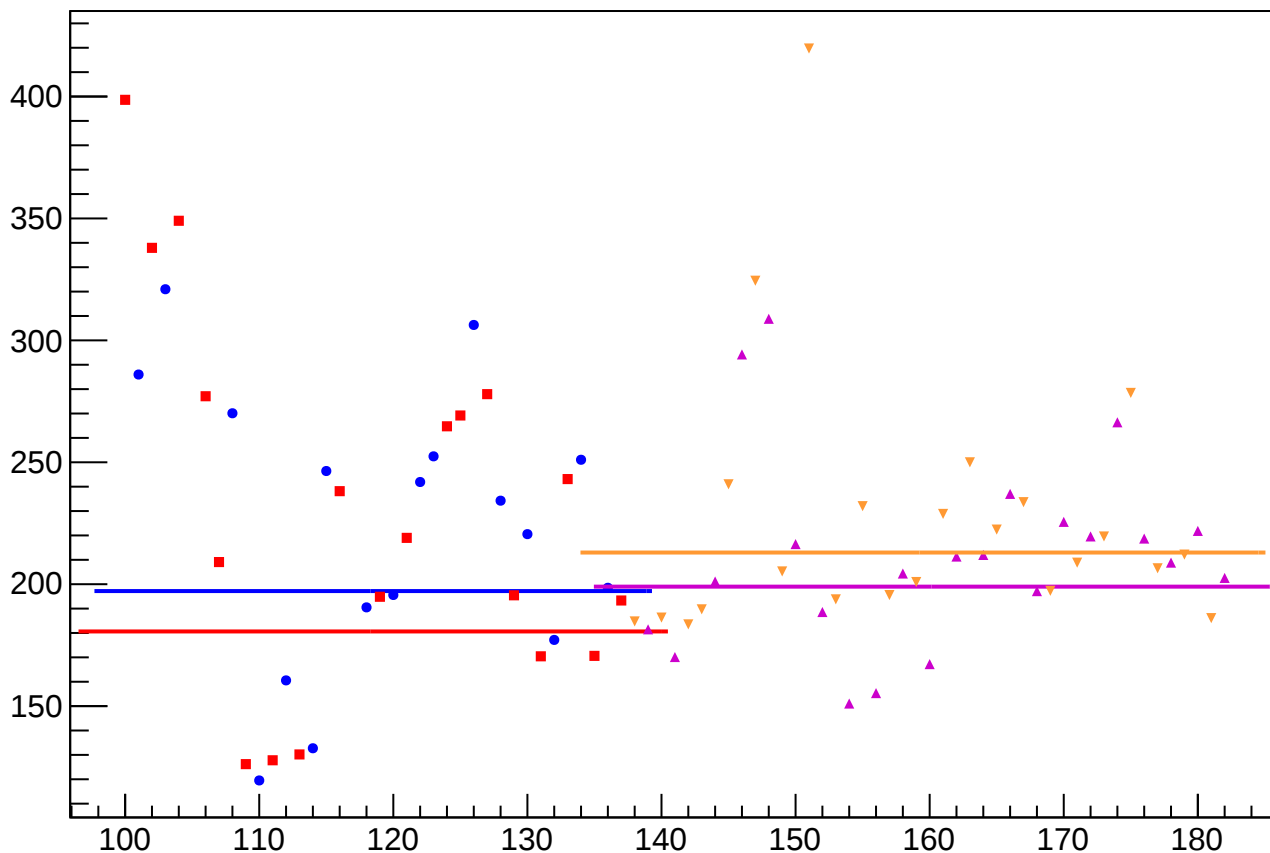
Right: -656.175+/-53.917 χ^2/NDF : 1047.2/35

In: 174.832+/-42.272 χ^2/NDF :1678.2/38

Out: 159.837+/-42.461 χ^2/NDF :2885.9/41

All: 167.368+/-29.957 χ^2/NDF : 4564.2/80

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.185+/-0.057 χ^2/NDF : 909929.0/16

Left Out: 212.988+/-0.037 χ^2/NDF : 916515.7/22

Right Out: 180.624+/-0.051 χ^2/NDF : 1341837.4/18

Left In: 199.000+/-0.035 χ^2/NDF : 984889.1/21

Left: 205.638+/-0.025 χ^2/NDF : 1976565.9/44

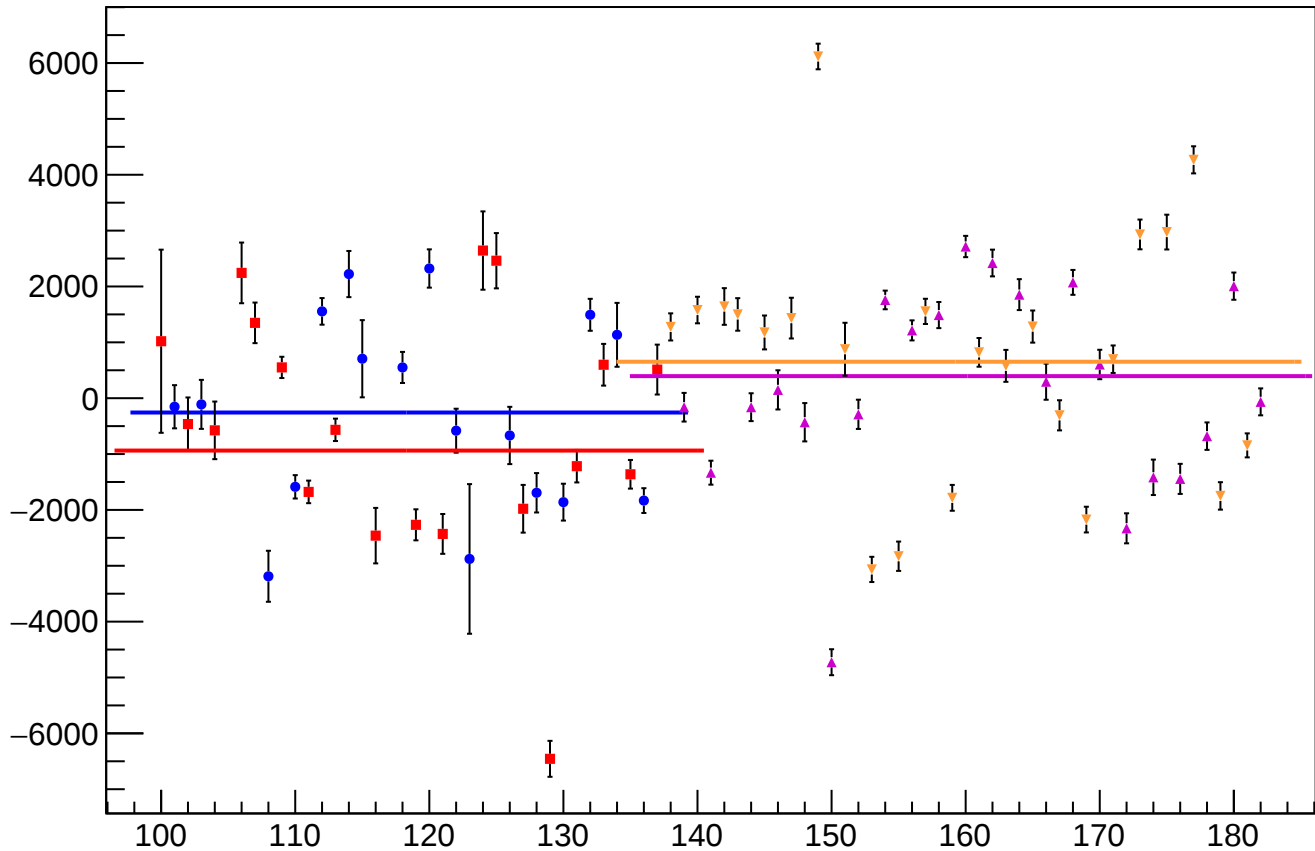
Right: 188.080+/-0.038 χ^2/NDF : 2298467.9/35

In: 198.498+/-0.030 χ^2/NDF : 1895556.2/38

Out: 201.953+/-0.030 χ^2/NDF : 2519440.7/41

All: 200.218+/-0.021 χ^2/NDF : 4421647.1/80

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -256.429 ± 81.594 $\chi^2/\text{NDF}: 381.8/16$

Left Out: 652.684 ± 54.383 $\chi^2/\text{NDF}: 1851.7/22$

Right Out: -937.482 ± 74.168 $\chi^2/\text{NDF}: 609.1/18$

Left In: 395.044 ± 51.418 $\chi^2/\text{NDF}: 1236.3/21$

Left: 516.648 ± 37.362 $\chi^2/\text{NDF}: 3099.8/44$

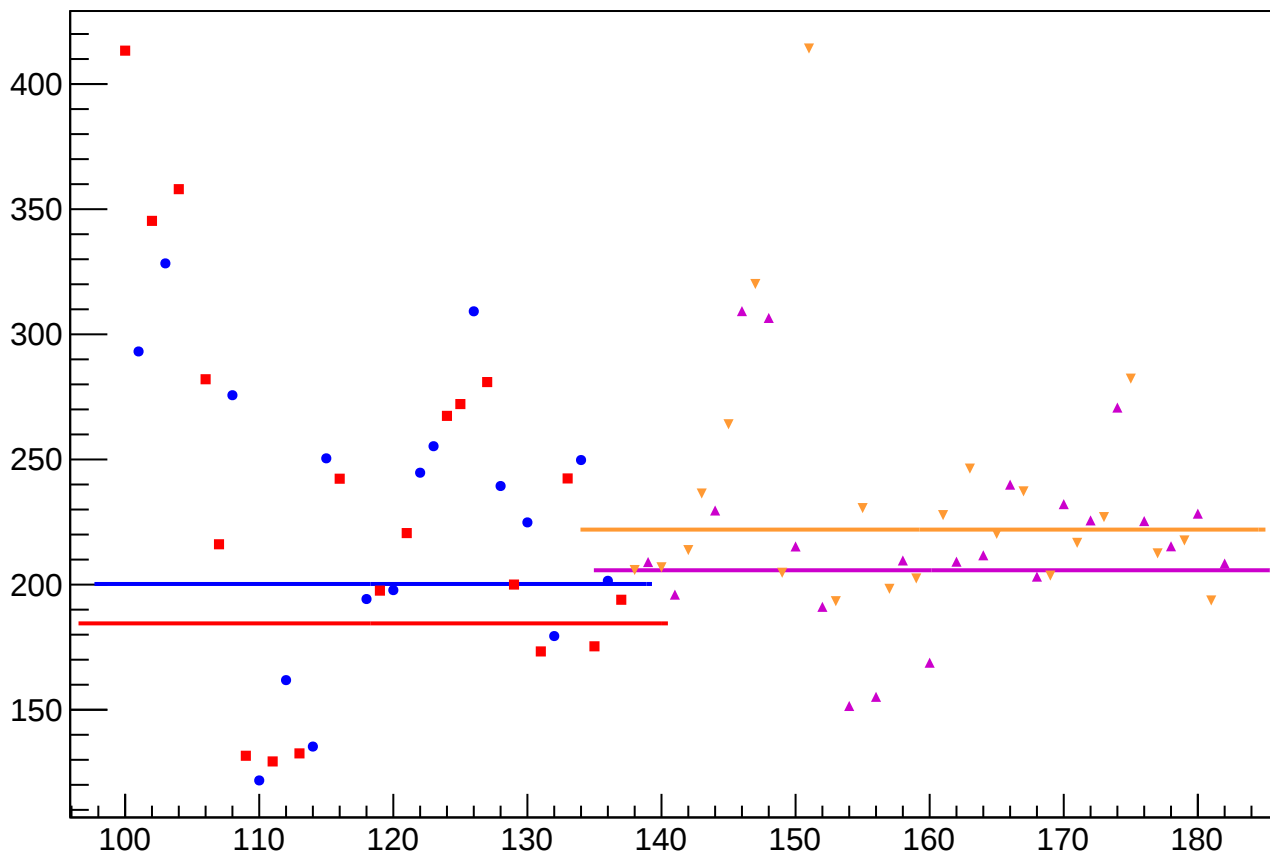
Right: -629.348 ± 54.883 $\chi^2/\text{NDF}: 1029.0/35$

In: 209.872 ± 43.501 $\chi^2/\text{NDF}: 1663.7/38$

Out: 96.675 ± 43.857 $\chi^2/\text{NDF}: 2759.7/41$

All: 153.735 ± 30.885 $\chi^2/\text{NDF}: 4426.8/80$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.256+/-0.058 χ^2/NDF : 915910.1/16

Left Out: 221.983+/-0.038 χ^2/NDF : 767409.5/22

Right Out: 184.510+/-0.052 χ^2/NDF : 1314720.9/18

Left In: 205.737+/-0.036 χ^2/NDF : 994699.2/21

Left: 213.405+/-0.026 χ^2/NDF : 1856356.5/44

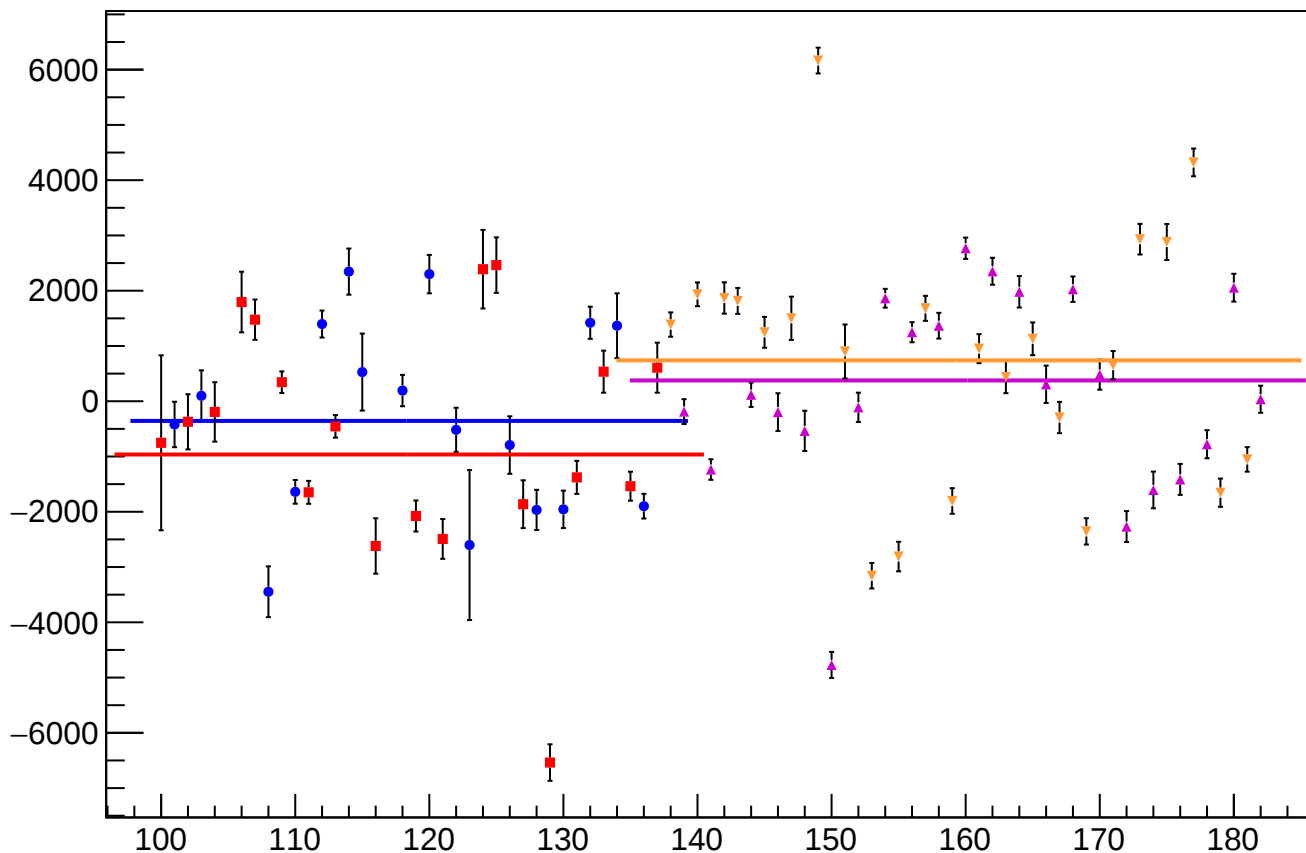
Right: 191.634+/-0.039 χ^2/NDF : 2271416.2/35

In: 204.179+/-0.031 χ^2/NDF : 1917068.8/38

Out: 208.881+/-0.031 χ^2/NDF : 2414173.2/41

All: 206.511+/-0.022 χ^2/NDF : 4342828.7/80

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Left: 548.714 $\pm$ 37.192 χ^2/NDF : 3119.6/44

Right: -688.935 $\pm$ 56.034 χ^2/NDF : 980.1/35

In: 174.867 $\pm$ 43.684 χ^2/NDF : 1657.0/38

Out: 165.499 $\pm$ 43.964 χ^2/NDF : 2781.3/41

All: 170.213 $\pm$ 30.988 χ^2/NDF : 4438.3/80

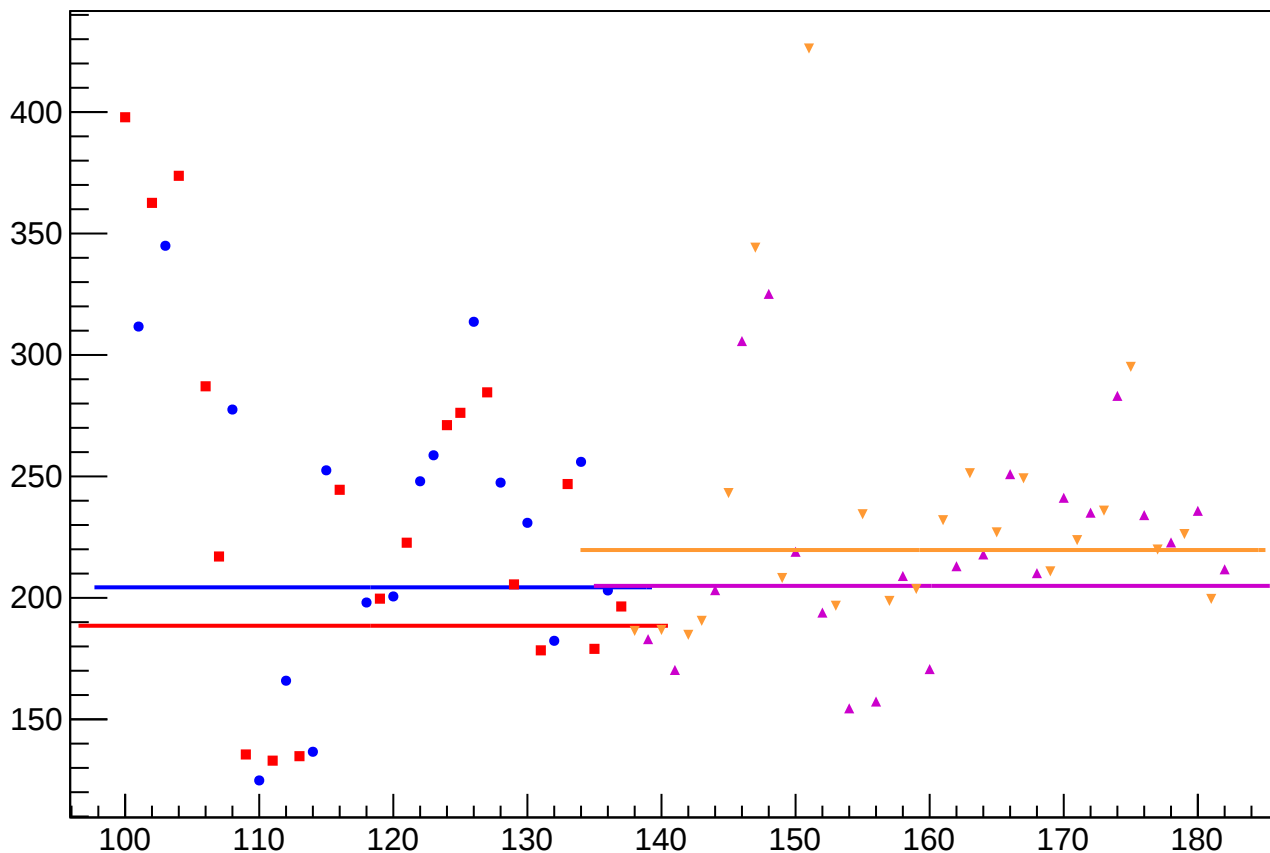
Right In: -356.124 $\pm$ 83.321 χ^2/NDF : 378.6/16

Left Out: 739.933 $\pm$ 54.001 χ^2/NDF : 1873.3/22

Right Out: -963.743 $\pm$ 75.713 χ^2/NDF : 572.4/18

Left In: 376.147 $\pm$ 51.299 χ^2/NDF : 1222.4/21

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.343 $\pm$ 0.059 χ^2/NDF : 944923.9/16

Left Out: 219.699 $\pm$ 0.038 χ^2/NDF : 972082.7/22

Right Out: 188.523 $\pm$ 0.054 χ^2/NDF : 1311109.8/18

Left In: 204.943 $\pm$ 0.036 χ^2/NDF : 1143687.7/21

Left: 211.942 $\pm$ 0.026 χ^2/NDF : 2194272.1/44

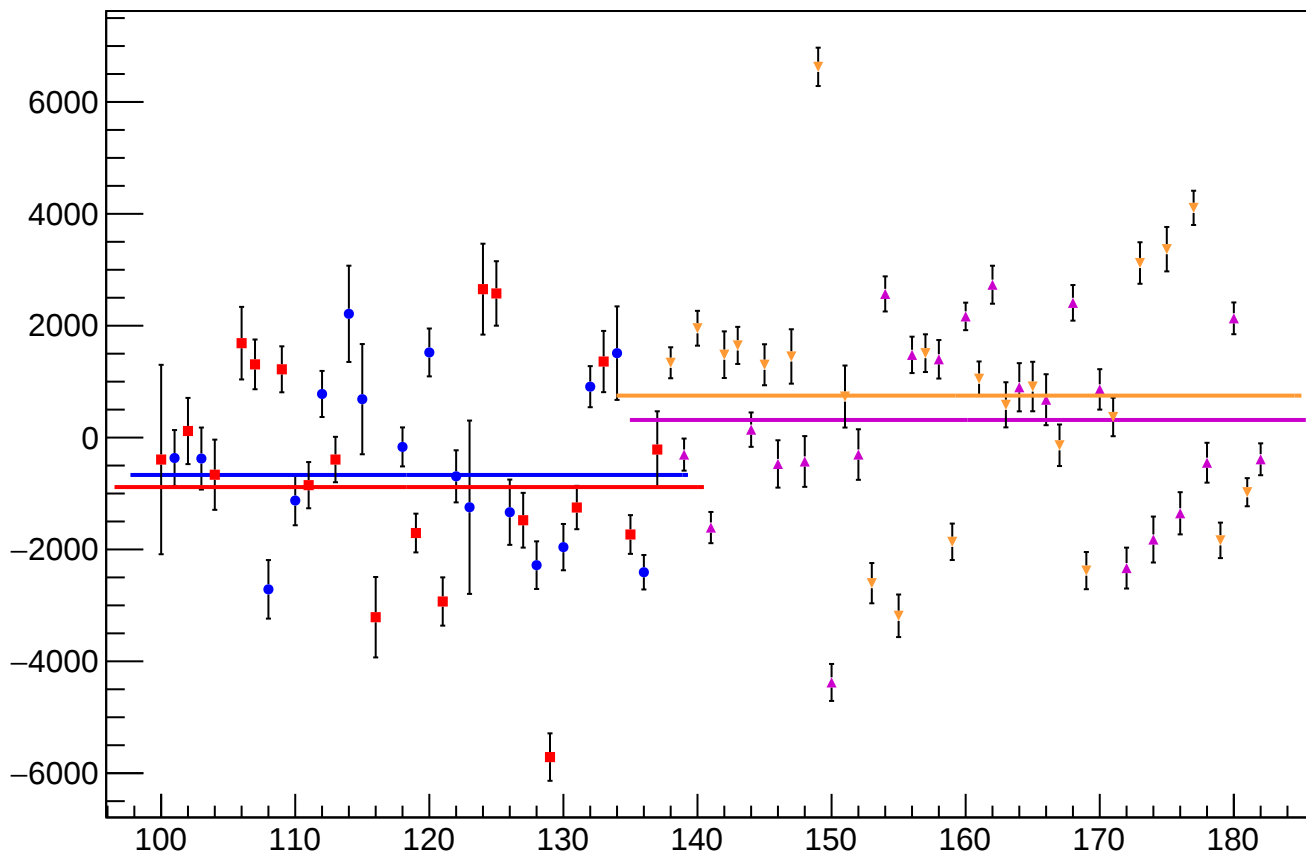
Right: 195.678 $\pm$ 0.040 χ^2/NDF : 2295521.2/35

In: 204.778 $\pm$ 0.031 χ^2/NDF : 2088686.8/38

Out: 209.187 $\pm$ 0.031 χ^2/NDF : 2507951.4/41

All: 206.968 $\pm$ 0.022 χ^2/NDF : 4606763.1/80

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -668.118±/114.189 χ^2/NDF : 153.3/16

Left Out: 750.454±/72.364 χ^2/NDF :1006.3/22

Right Out: -884.858±/110.843 χ^2/NDF : 320.1/18

Left In: 314.840±/71.779 χ^2/NDF :642.5/21

Left: 530.878±/50.961 χ^2/NDF : 1667.1/44

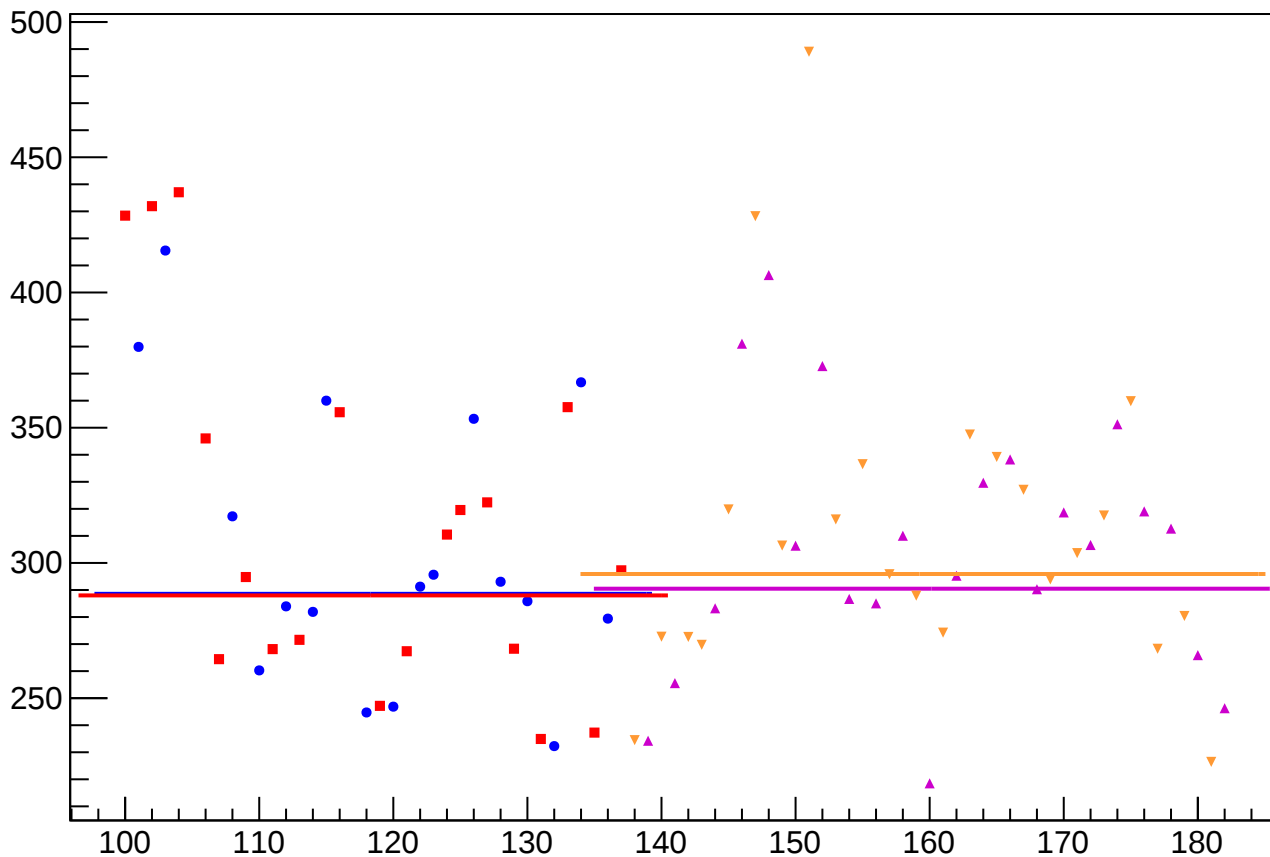
Right: -779.711±/79.534 χ^2/NDF : 475.3/35

In: 36.446±/60.770 χ^2/NDF :849.0/38

Out: 261.750±/60.594 χ^2/NDF :1479.1/41

All: 149.425±/42.908 χ^2/NDF : 2335.0/80

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.577 ± 0.081 $\chi^2/\text{NDF}: 338793.1/16$

Left Out: 295.911 ± 0.051 $\chi^2/\text{NDF}: 868578.7/22$

Right Out: 287.995 ± 0.078 $\chi^2/\text{NDF}: 459962.0/18$

Left In: 290.477 ± 0.051 $\chi^2/\text{NDF}: 762336.7/21$

Left: 293.172 ± 0.036 $\chi^2/\text{NDF}: 1636601.5/44$

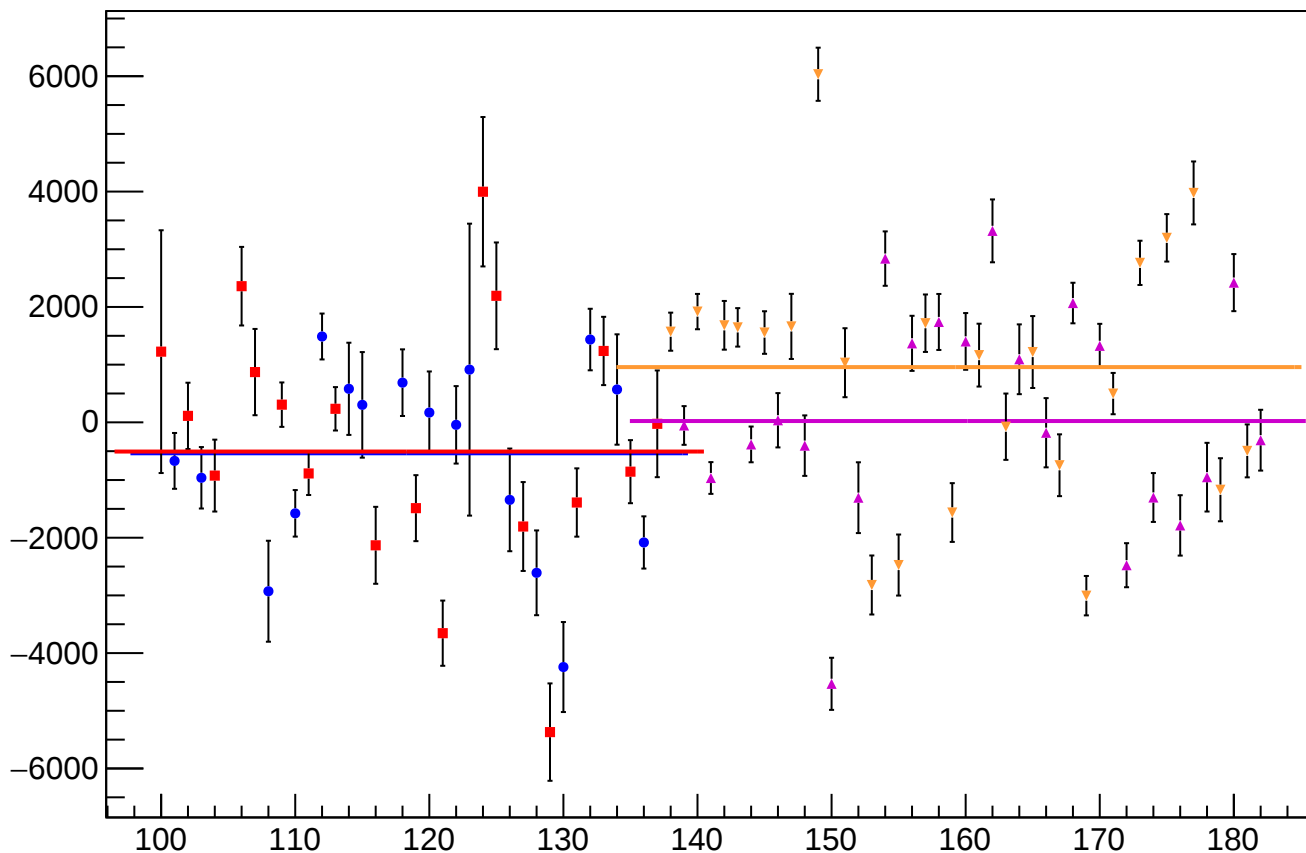
Right: 288.277 ± 0.056 $\chi^2/\text{NDF}: 798781.9/35$

In: 289.939 ± 0.043 $\chi^2/\text{NDF}: 1101526.7/38$

Out: 293.546 ± 0.043 $\chi^2/\text{NDF}: 1335693.7/41$

All: 291.747 ± 0.030 $\chi^2/\text{NDF}: 2440753.6/80$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -536.568+/-147.571 χ^2 /NDF: 107.9/16

Left Out: 957.404+/-91.025 χ^2 /NDF:527.1/22

Right Out: -506.373+/-135.761 χ^2 /NDF: 140.9/18

Left In: 22.518+/-92.876 χ^2 /NDF:362.3/21

Left: 499.369+/-65.009 χ^2 /NDF: 941.0/44

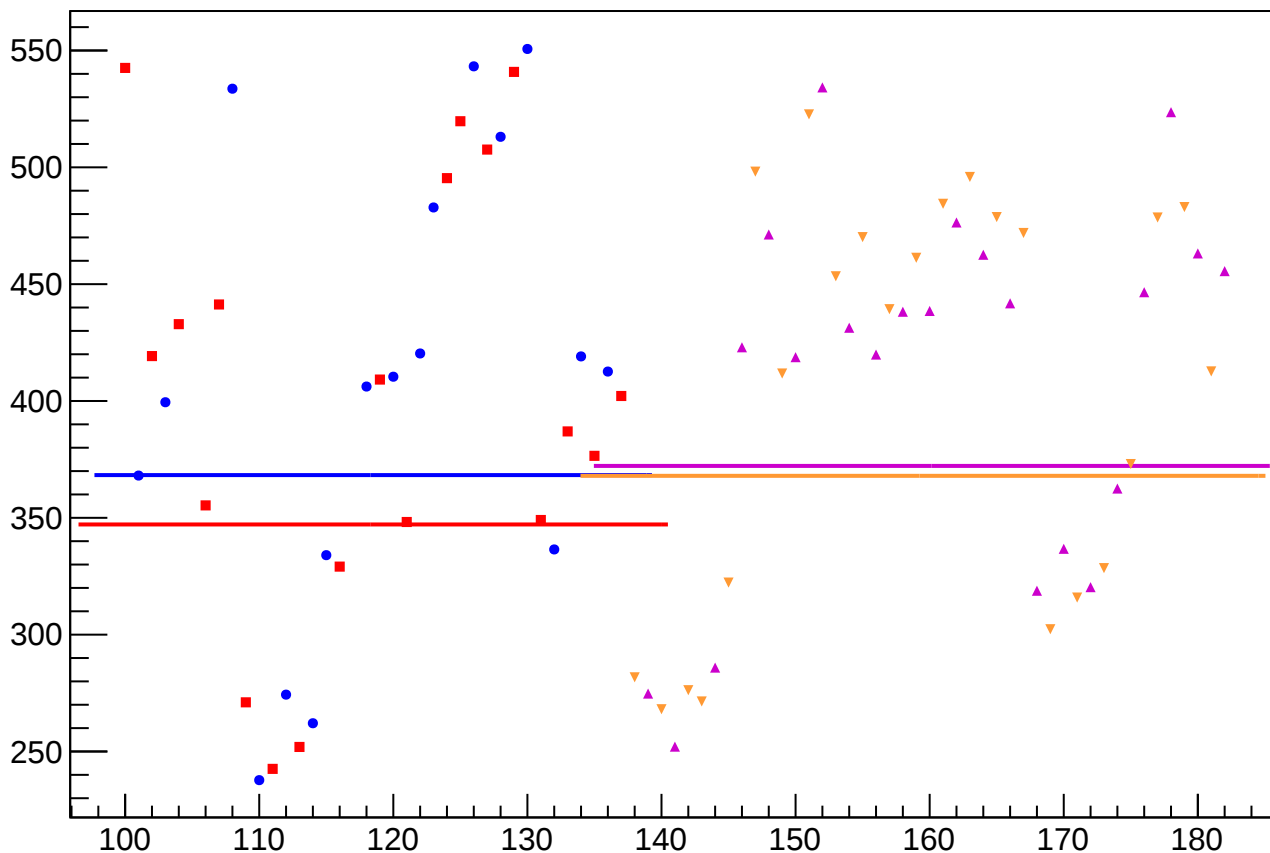
Right: -520.214+/-99.912 χ^2 /NDF: 248.8/35

In: -136.105+/-78.604 χ^2 /NDF:480.4/38

Out: 503.445+/-75.604 χ^2 /NDF:748.2/41

All: 196.107+/-54.490 χ^2 /NDF: 1263.0/80

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.287 $\pm$ 0.104 χ^2 /NDF: 765418.4/16

Left Out: 367.973 $\pm$ 0.064 χ^2 /NDF:1794724.9/22

Right Out: 347.159 $\pm$ 0.096 χ^2 /NDF: 816304.3/18

Left In: 372.217 $\pm$ 0.066 χ^2 /NDF:1618600.5/21

Left: 370.053 $\pm$ 0.046 χ^2 /NDF: 3415455.6/44

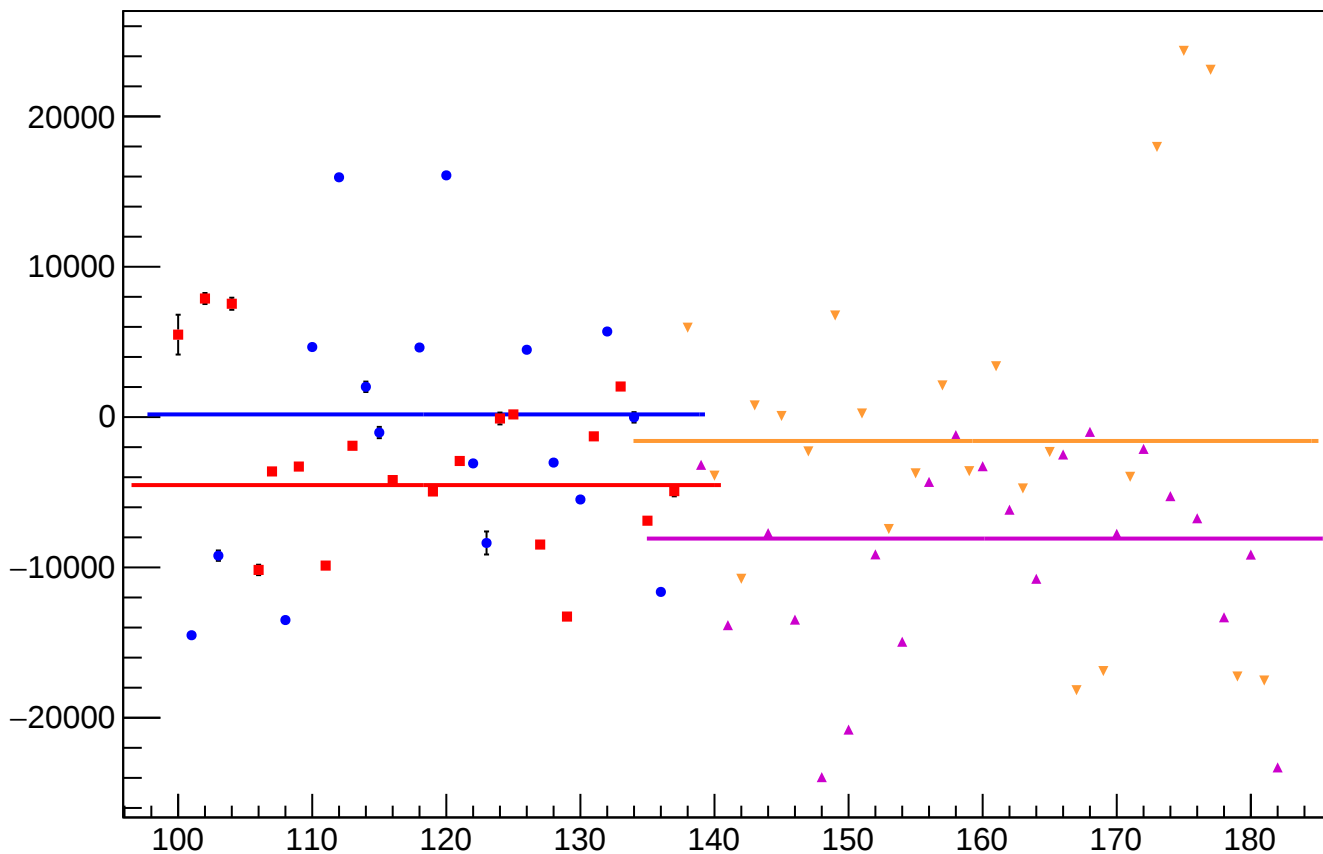
Right: 356.844 $\pm$ 0.071 χ^2 /NDF: 1603928.6/35

In: 371.102 $\pm$ 0.056 χ^2 /NDF:2385034.8/38

Out: 361.518 $\pm$ 0.053 χ^2 /NDF:2643462.3/41

All: 366.124 $\pm$ 0.039 χ^2 /NDF: 5043942.7/80

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788 ± 54.896 $\chi^2/\text{NDF}: 30662.2/16$

Left Out: -1587.880 ± 43.094 $\chi^2/\text{NDF}: 60612.3/22$

Right Out: -4523.222 ± 52.440 $\chi^2/\text{NDF}: 7474.2/18$

Left In: -8080.764 ± 44.505 $\chi^2/\text{NDF}: 20820.0/21$

Left: -4729.808 ± 30.959 $\chi^2/\text{NDF}: 92417.2/44$

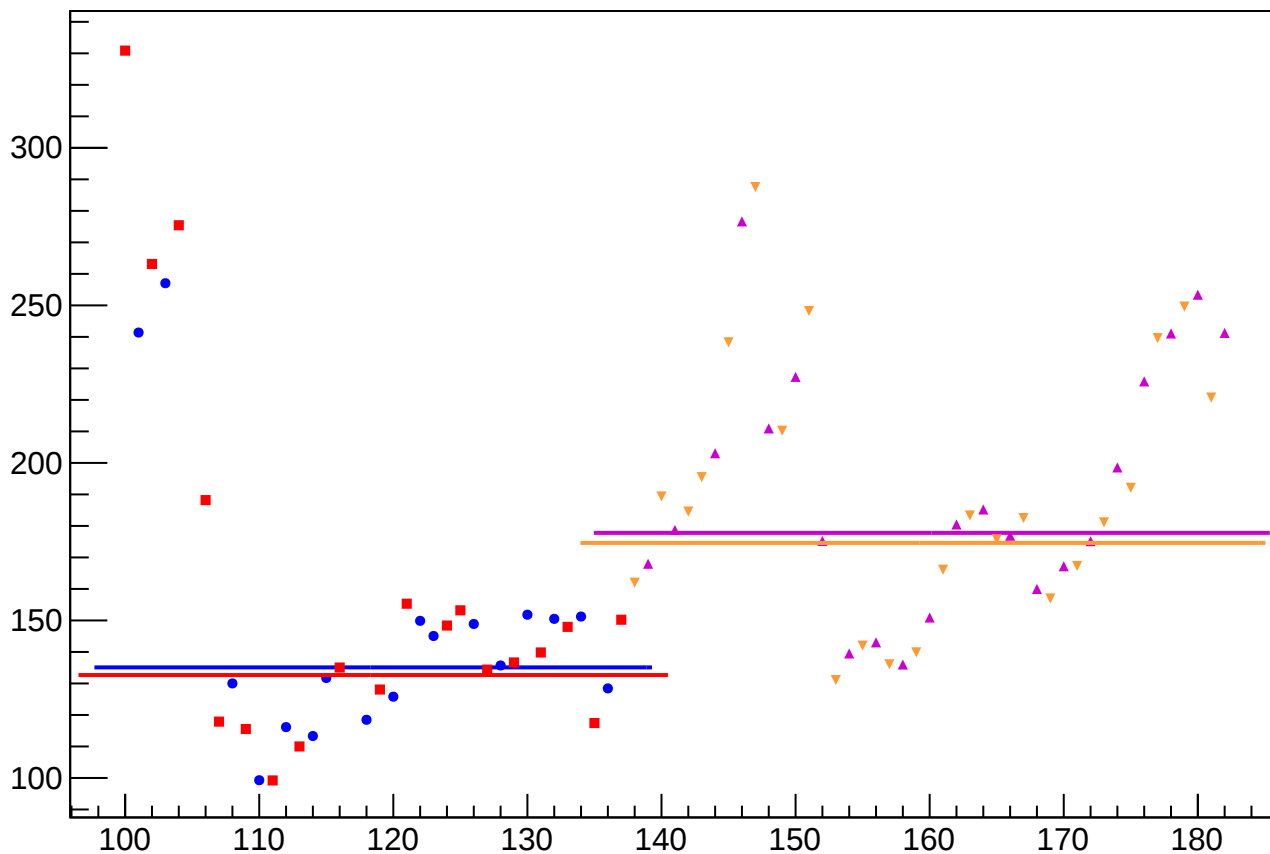
Right: -2279.776 ± 37.919 $\chi^2/\text{NDF}: 41972.4/35$

In: -4805.139 ± 34.571 $\chi^2/\text{NDF}: 65141.9/38$

Out: -2771.124 ± 33.294 $\chi^2/\text{NDF}: 69956.8/41$

All: -3749.876 ± 23.981 $\chi^2/\text{NDF}: 136894.6/80$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099+/-0.039 χ^2/NDF : 657657.4/16

Left Out: 174.610+/-0.030 χ^2/NDF :1405215.3/22

Right Out: 132.672+/-0.037 χ^2/NDF : 828363.1/18

Left In: 177.798+/-0.031 χ^2/NDF :1251799.6/21

Left: 176.153+/-0.022 χ^2/NDF : 2662310.0/44

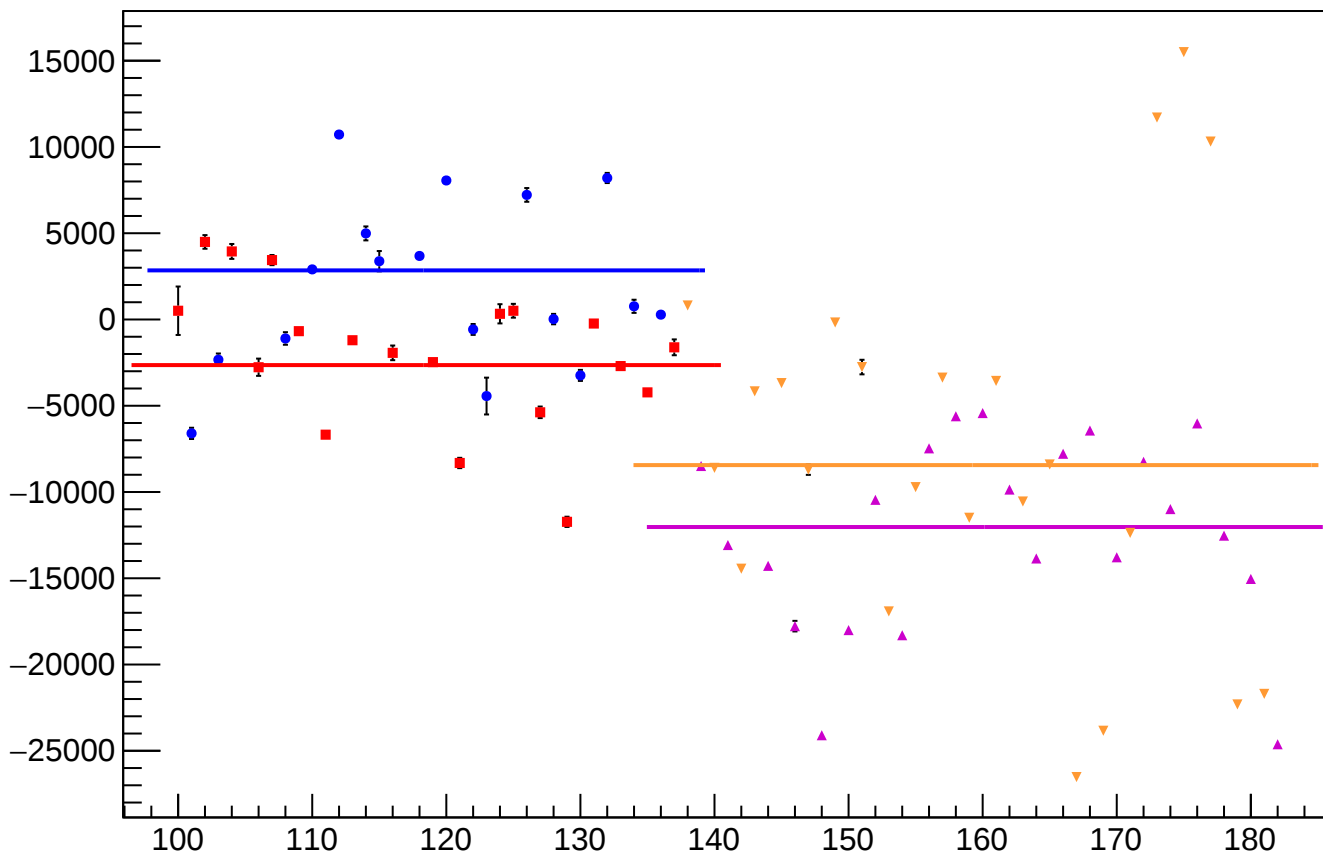
Right: 133.830+/-0.027 χ^2/NDF : 1488063.7/35

In: 160.864+/-0.024 χ^2/NDF :2639581.8/38

Out: 157.705+/-0.024 χ^2/NDF :2997108.3/41

All: 159.225+/-0.017 χ^2/NDF : 5645354.1/80

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117+/-70.894 χ^2/NDF : 4160.1/16

Left Out: -8440.454+/-46.910 χ^2/NDF :53871.1/22

Right Out: -2643.505+/-65.711 χ^2/NDF : 3177.7/18

Left In: -12029.339+/-44.277 χ^2/NDF :15072.4/21

Left: -10338.432+/-32.199 χ^2/NDF : 72038.9/44

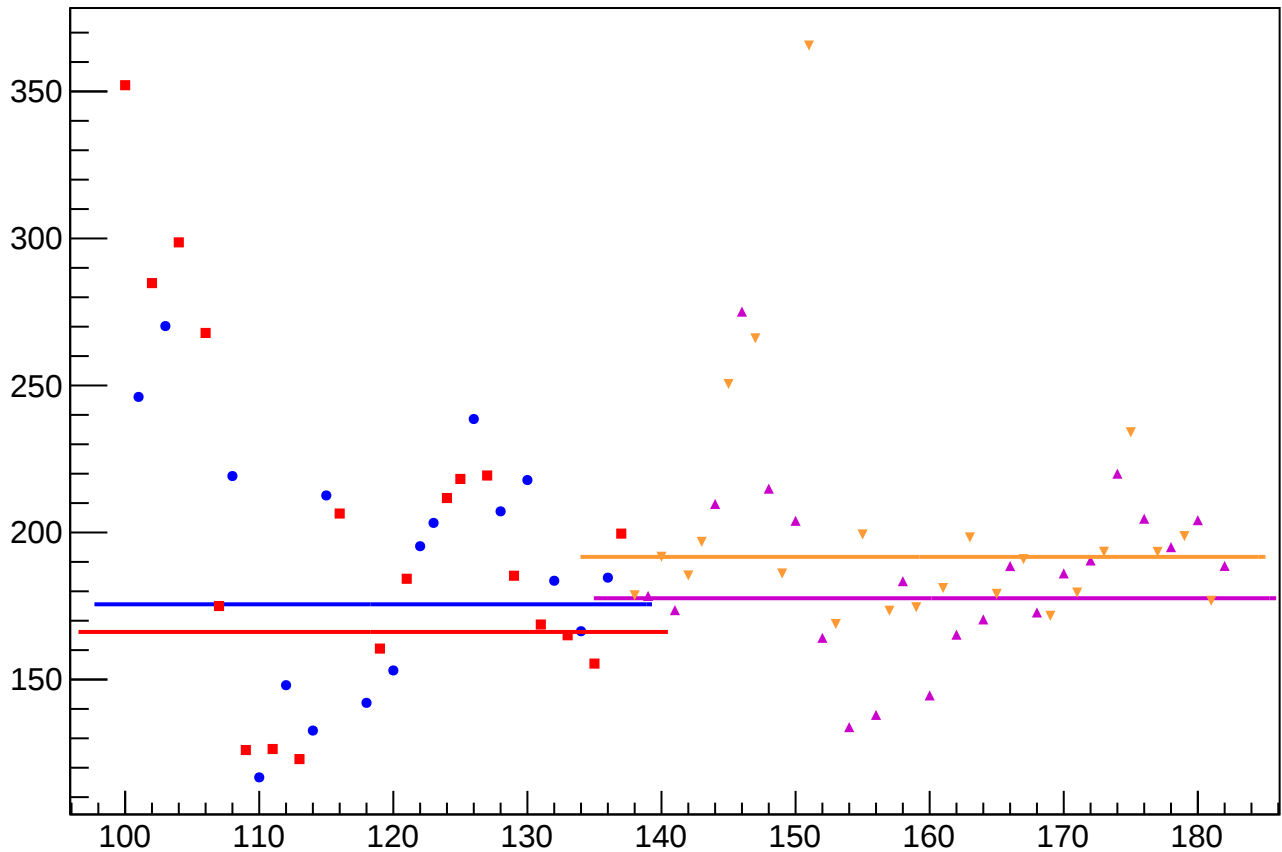
Right: -106.685+/-48.193 χ^2/NDF : 10563.0/35

In: -7855.116+/-37.555 χ^2/NDF :50905.1/38

Out: -6483.476+/-38.180 χ^2/NDF :62204.1/41

All: -7180.615+/-26.773 χ^2/NDF : 113765.2/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582 $\pm$ 0.050 χ^2/NDF : 687852.4/16

Left Out: 191.702 $\pm$ 0.033 χ^2/NDF : 724979.8/22

Right Out: 166.180 $\pm$ 0.046 χ^2/NDF : 925559.0/18

Left In: 177.645 $\pm$ 0.031 χ^2/NDF : 860379.4/21

Left: 184.268 $\pm$ 0.023 χ^2/NDF : 1680331.6/44

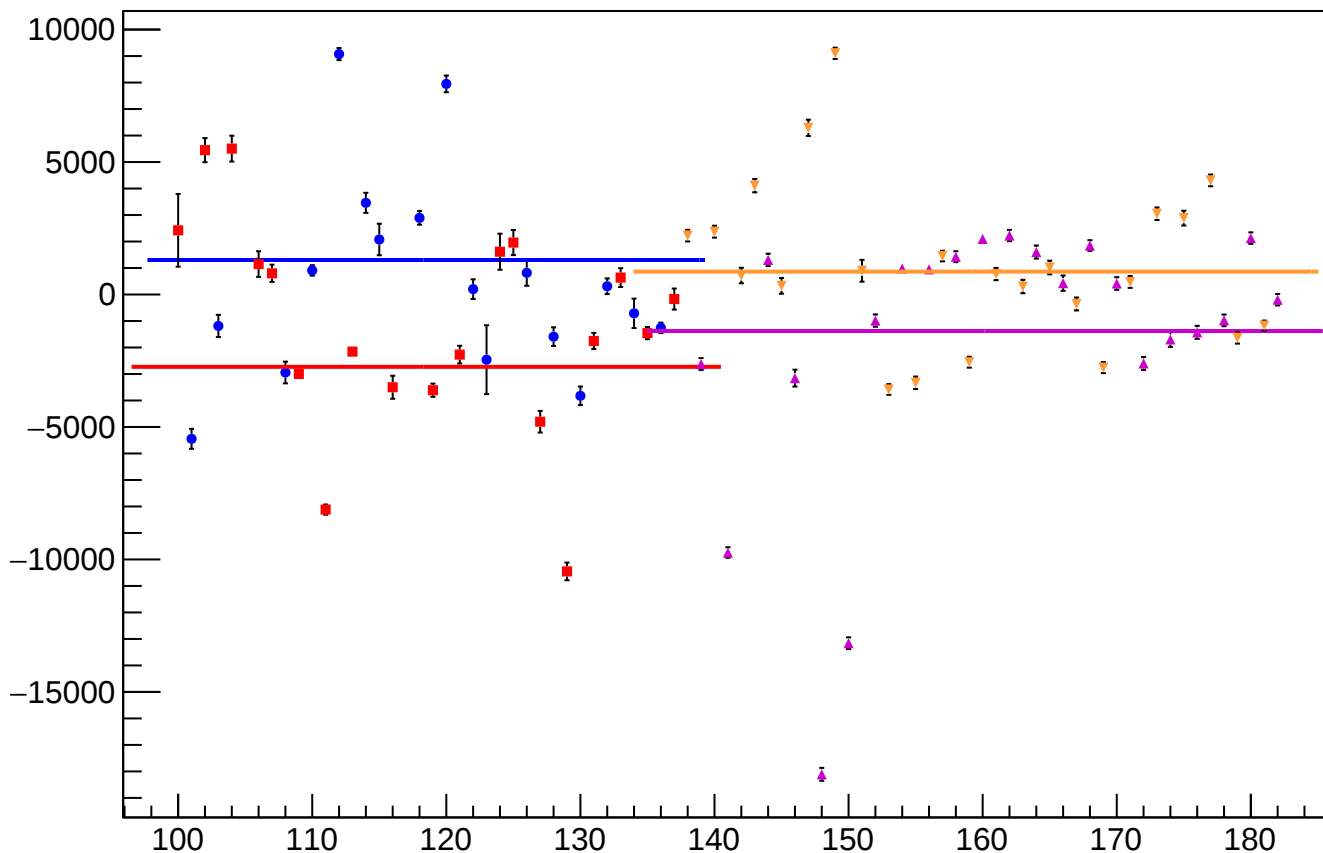
Right: 170.525 $\pm$ 0.034 χ^2/NDF : 1632331.4/35

In: 177.066 $\pm$ 0.027 χ^2/NDF : 1549450.6/38

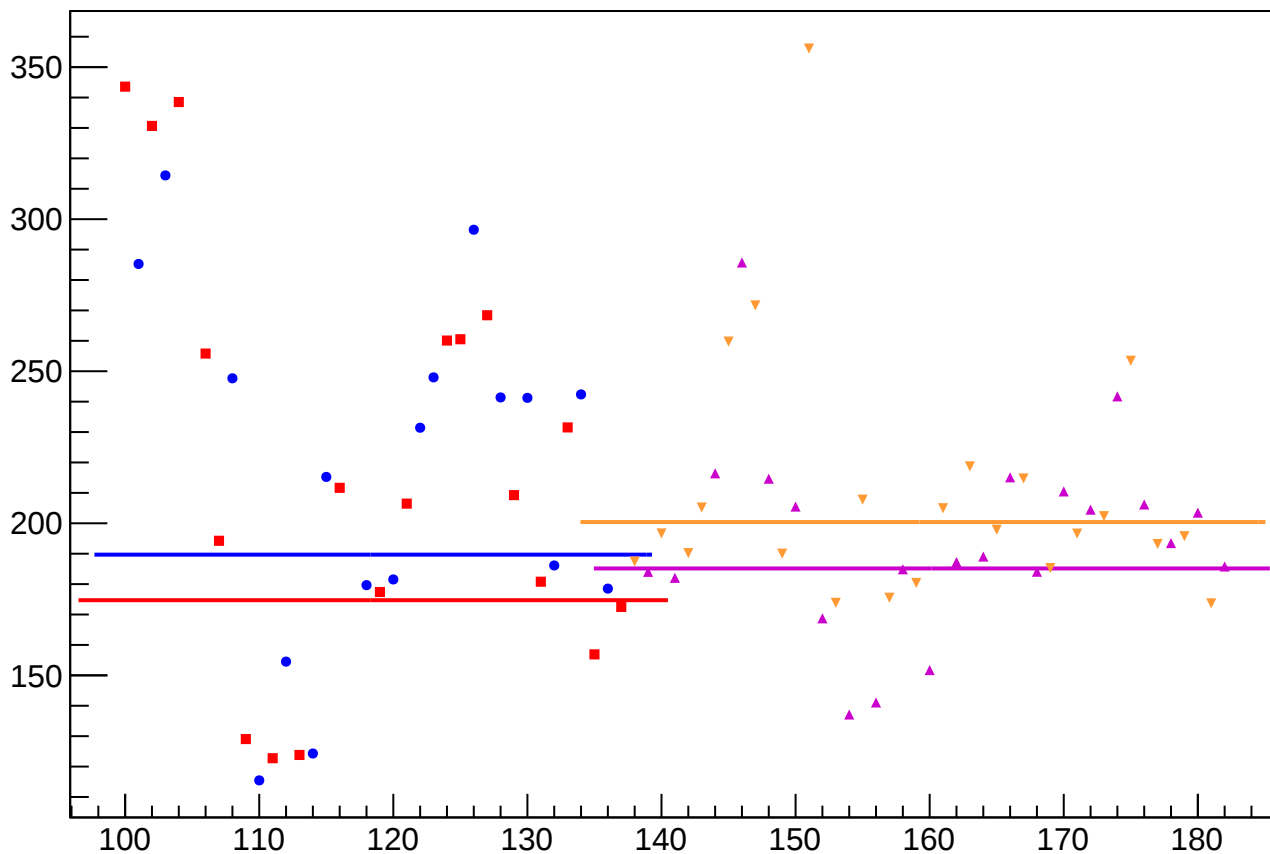
Out: 183.086 $\pm$ 0.027 χ^2/NDF : 1850391.3/41

All: 180.027 $\pm$ 0.019 χ^2/NDF : 3425112.9/80

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2 /NDF: 977199.2/16

Left Out: 200.411 $\pm$ 0.035 χ^2 /NDF: 715827.8/22

Right Out: 174.707 $\pm$ 0.050 χ^2 /NDF: 1291115.5/18

Left In: 185.148 $\pm$ 0.033 χ^2 /NDF: 882723.8/21

Left: 192.323 $\pm$ 0.024 χ^2 /NDF: 1701194.3/44

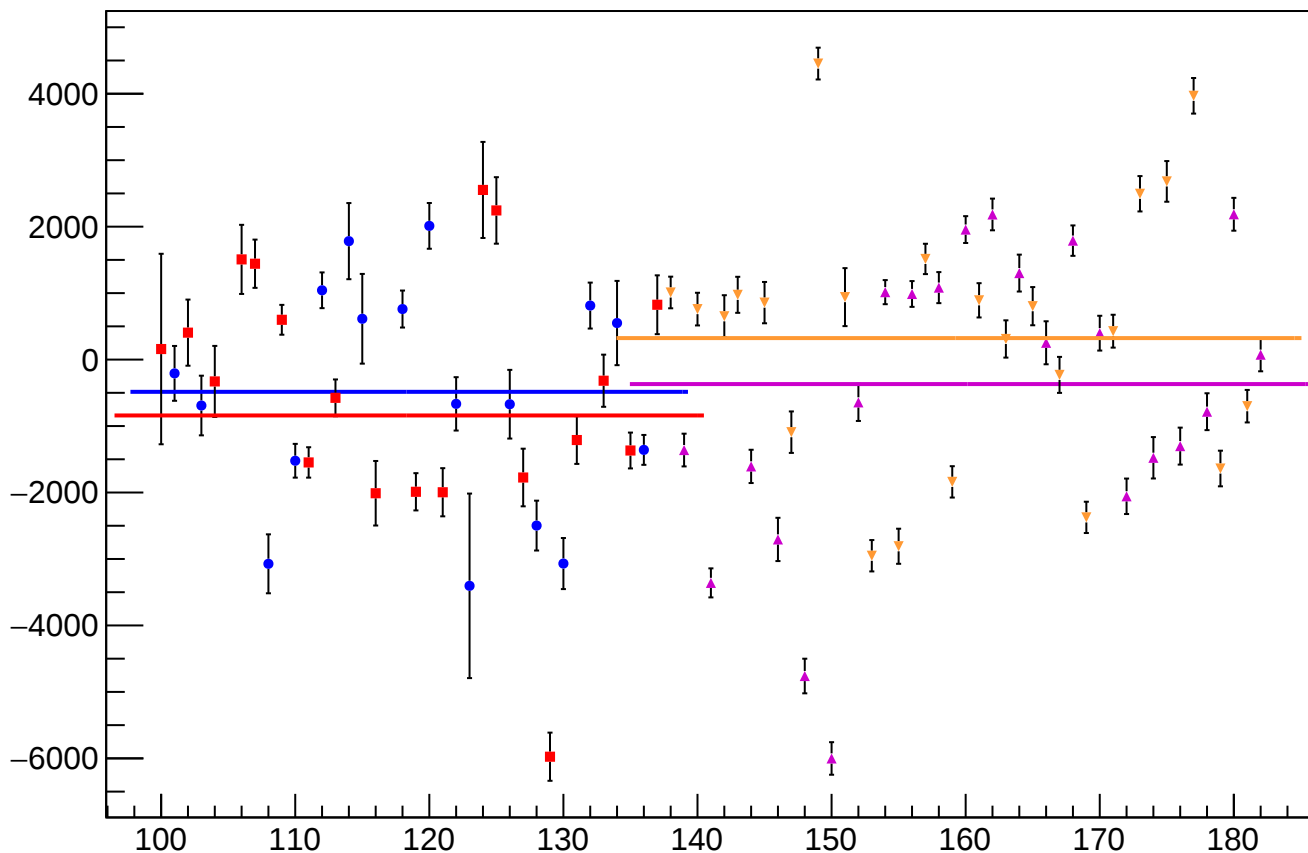
Right: 181.455 $\pm$ 0.037 χ^2 /NDF: 2309563.7/35

In: 186.342 $\pm$ 0.028 χ^2 /NDF: 1865001.6/38

Out: 191.950 $\pm$ 0.028 χ^2 /NDF: 2187789.5/41

All: 189.110 $\pm$ 0.020 χ^2 /NDF: 4072531.2/80

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -485.036±/88.788 χ^2/NDF : 285.3/16

Left Out: 323.339±/55.229 χ^2/NDF :1312.2/22

Right Out: -840.594±/82.233 χ^2/NDF : 438.2/18

Left In: -368.397±/52.462 χ^2/NDF :1800.3/21

Left: -40.289±/38.037 χ^2/NDF : 3194.9/44

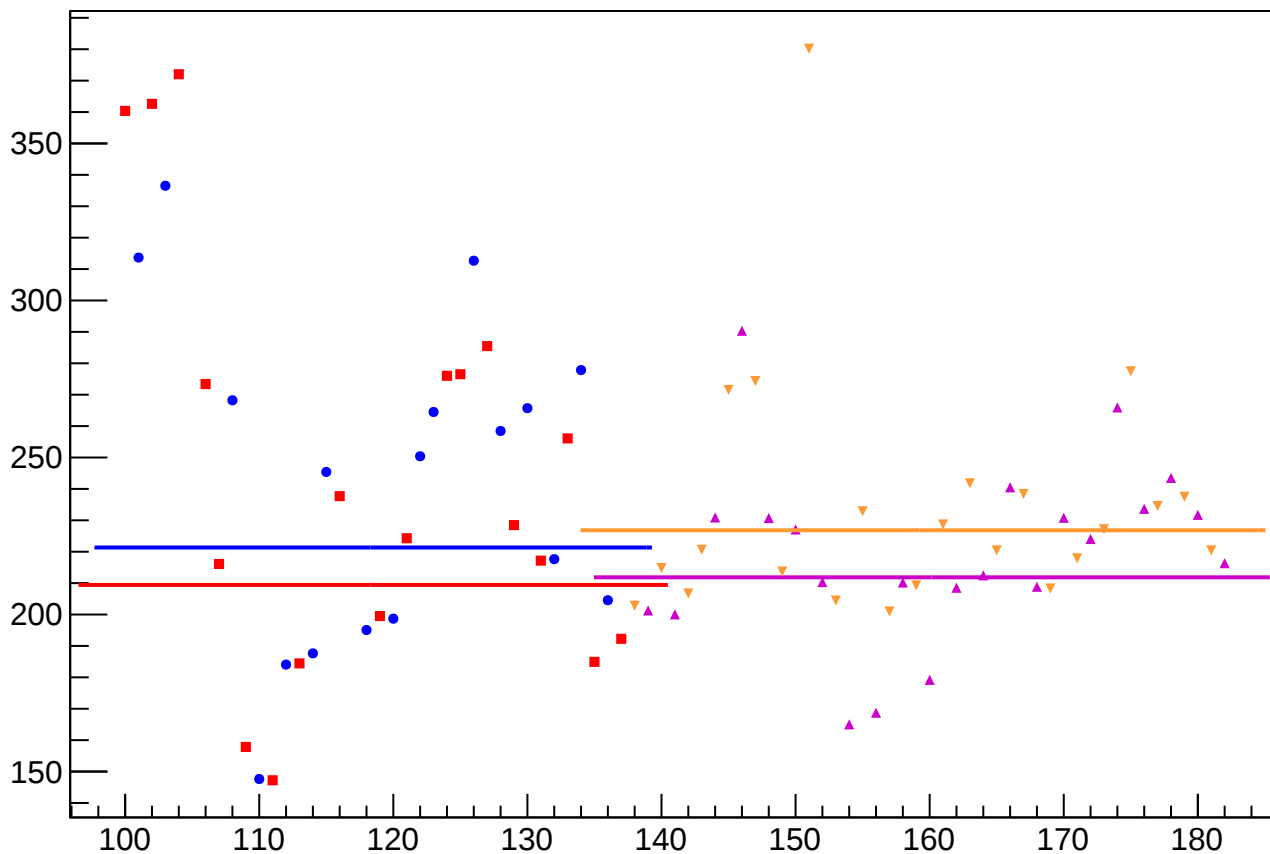
Right: -676.425±/60.332 χ^2/NDF : 732.1/35

In: -398.580±/45.167 χ^2/NDF :2086.8/38

Out: -38.473±/45.848 χ^2/NDF :1888.5/41

All: -221.222±/32.176 χ^2/NDF : 4006.6/80

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 $\pm$ 0.063 χ^2 /NDF: 645507.4/16

Left Out: 226.836 $\pm$ 0.039 χ^2 /NDF: 517293.9/22

Right Out: 209.428 $\pm$ 0.058 χ^2 /NDF: 879292.0/18

Left In: 211.849 $\pm$ 0.037 χ^2 /NDF: 583668.2/21

Left: 218.958 $\pm$ 0.027 χ^2 /NDF: 1178373.7/44

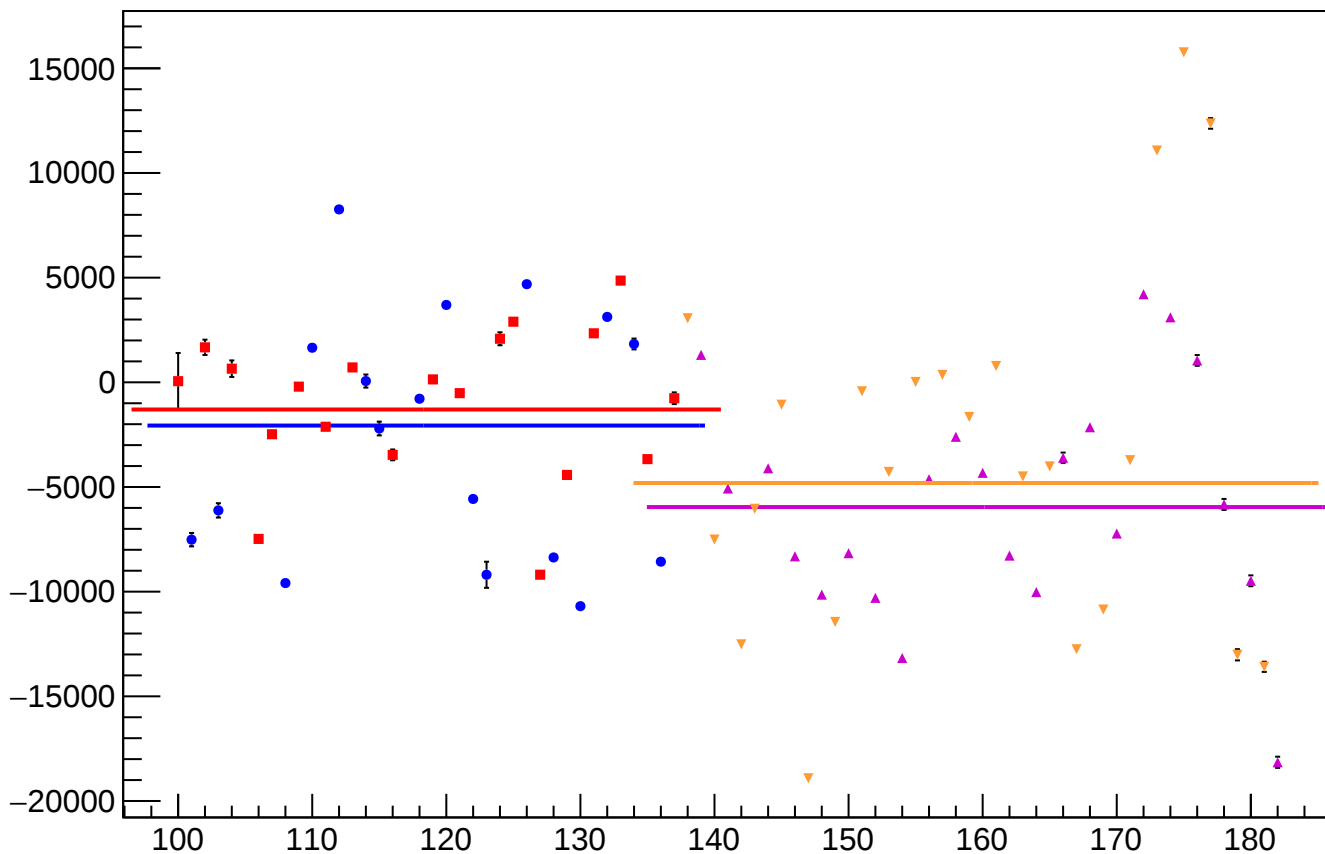
Right: 214.927 $\pm$ 0.043 χ^2 /NDF: 1544173.7/35

In: 214.305 $\pm$ 0.032 χ^2 /NDF: 1246109.5/38

Out: 221.424 $\pm$ 0.032 χ^2 /NDF: 1458351.1/41

All: 217.811 $\pm$ 0.023 χ^2 /NDF: 2728934.0/80

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524+/-47.407 χ^2/NDF : 16535.7/16

Left Out: -4809.676+/-34.168 χ^2/NDF : 51757.6/22

Right Out: -1298.632+/-44.980 χ^2/NDF : 5909.5/18

Left In: -5959.069+/-35.108 χ^2/NDF : 16427.9/21

Left: -5368.785+/-24.486 χ^2/NDF : 68736.0/44

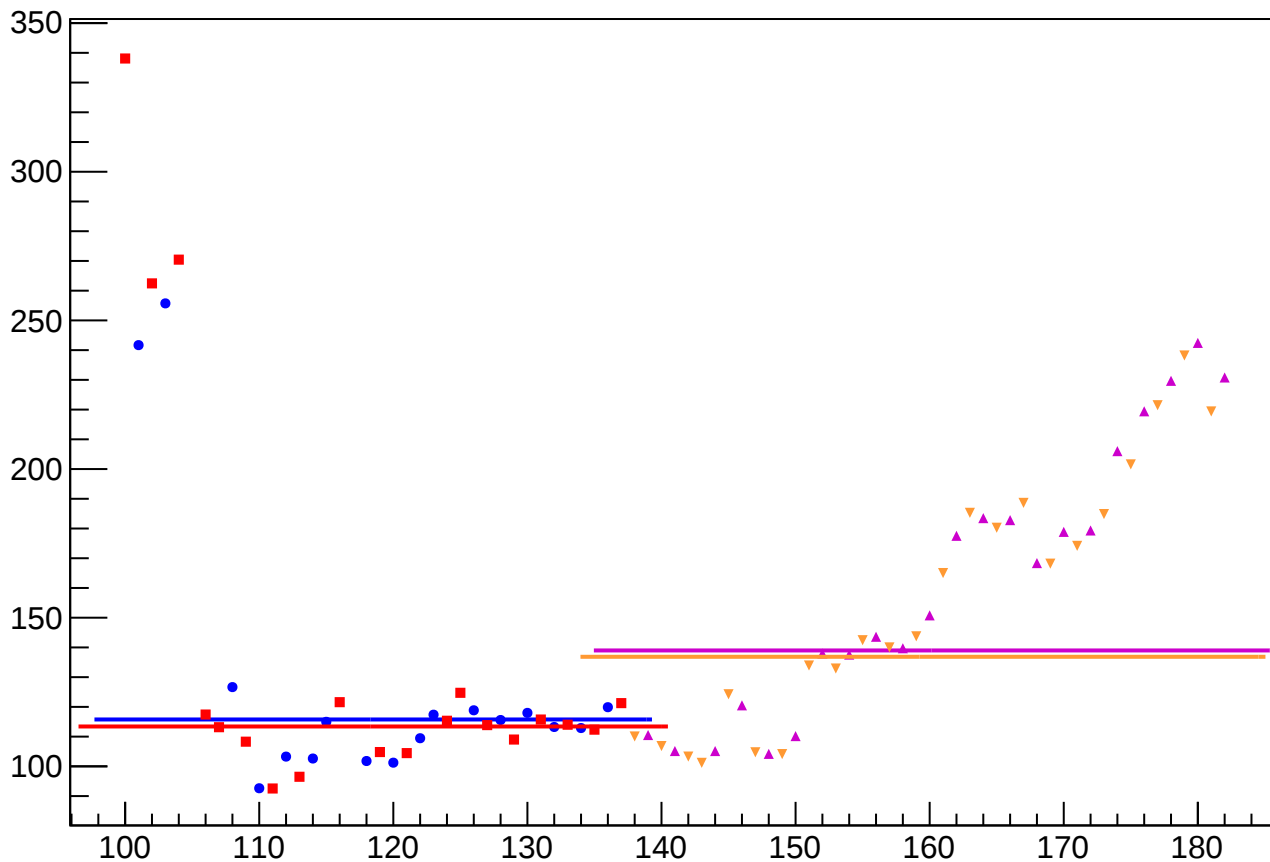
Right: -1661.949+/-32.630 χ^2/NDF : 22582.8/35

In: -4580.036+/-28.213 χ^2/NDF : 37319.9/38

Out: -3525.003+/-27.208 χ^2/NDF : 61530.6/41

All: -4033.390+/-19.585 χ^2/NDF : 99575.1/80

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768 ± 0.034 χ^2/NDF : 743657.8/16

Left Out: 136.850 ± 0.024 χ^2/NDF : 2241155.4/22

Right Out: 113.410 ± 0.032 χ^2/NDF : 795303.3/18

Left In: 138.984 ± 0.025 χ^2/NDF : 2321806.0/21

Left: 137.888 ± 0.017 χ^2/NDF : 4566753.8/44

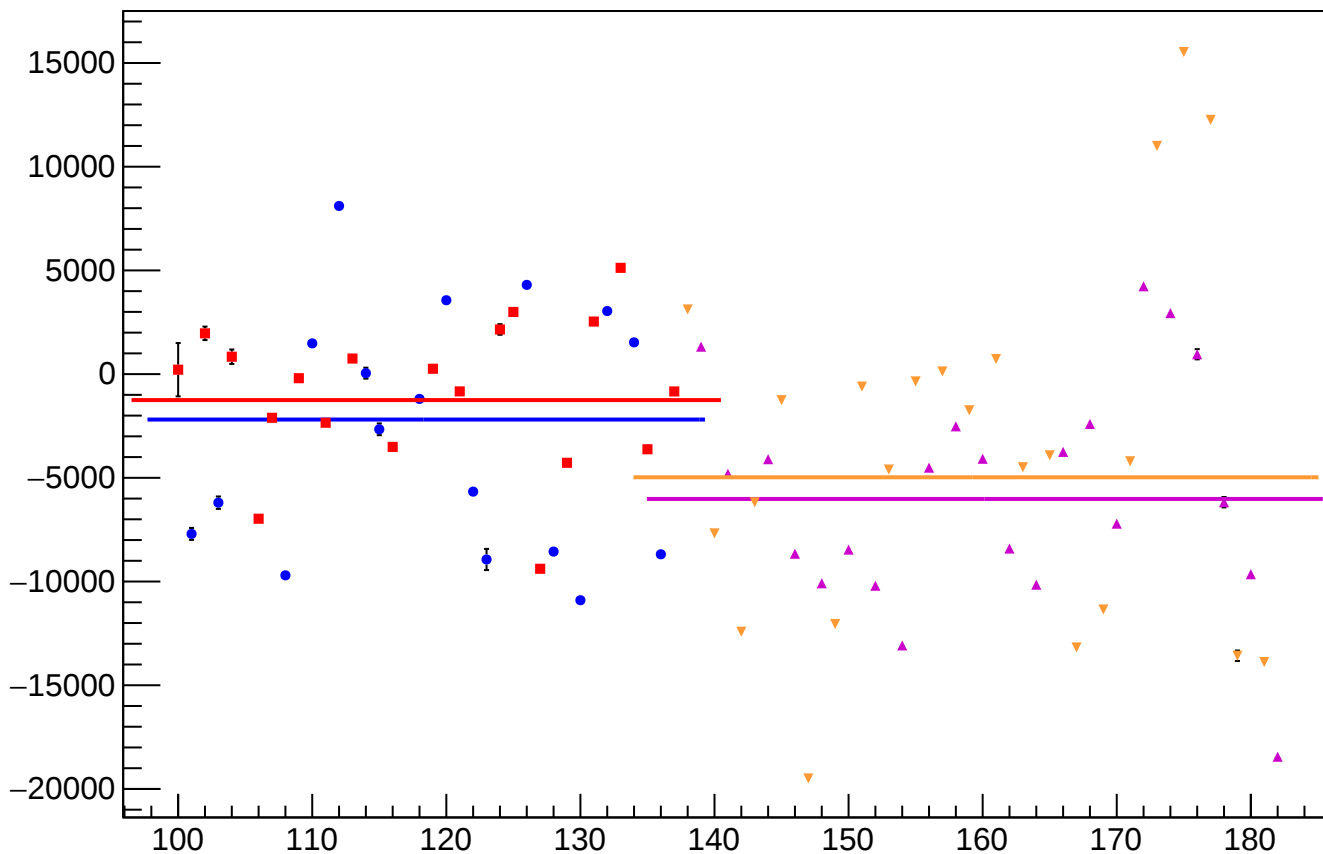
Right: 114.527 ± 0.023 χ^2/NDF : 1541564.1/35

In: 130.761 ± 0.020 χ^2/NDF : 3375226.5/38

Out: 128.274 ± 0.019 χ^2/NDF : 3380866.0/41

All: 129.472 ± 0.014 χ^2/NDF : 6764146.2/80

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2190.242 $\pm$ 40.008 χ^2 /NDF: 22811.0/16

Left Out: -4973.647 $\pm$ 31.036 χ^2 /NDF: 61120.5/22

Right Out: -1252.225 $\pm$ 38.029 χ^2 /NDF: 8581.9/18

Left In: -6018.535 $\pm$ 32.226 χ^2 /NDF: 19829.1/21

Left: -5476.436 $\pm$ 22.355 χ^2 /NDF: 81495.0/44

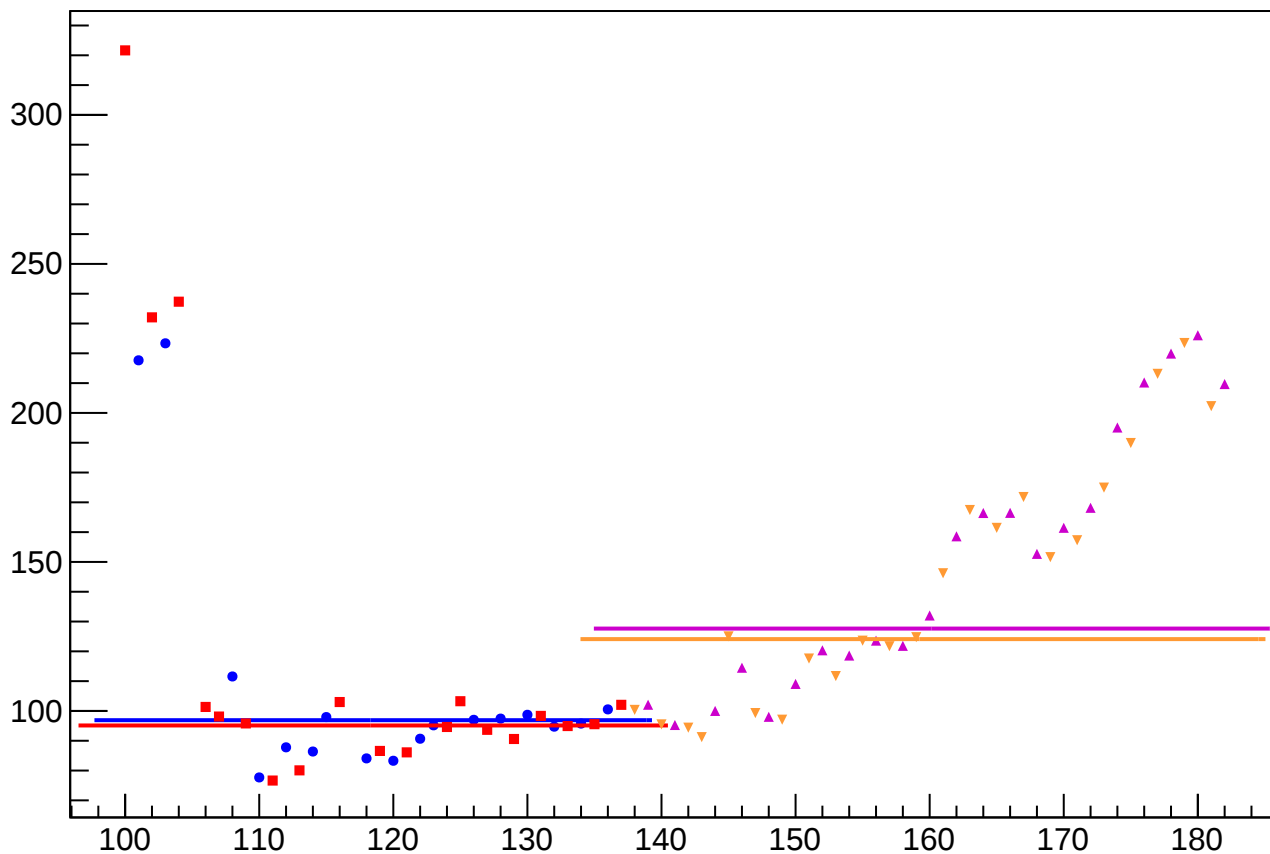
Right: -1697.452 $\pm$ 27.564 χ^2 /NDF: 31681.6/35

In: -4512.080 $\pm$ 25.097 χ^2 /NDF: 48193.2/38

Out: -3485.895 $\pm$ 24.045 χ^2 /NDF: 75450.2/41

All: -3977.021 $\pm$ 17.362 χ^2 /NDF: 124515.2/8

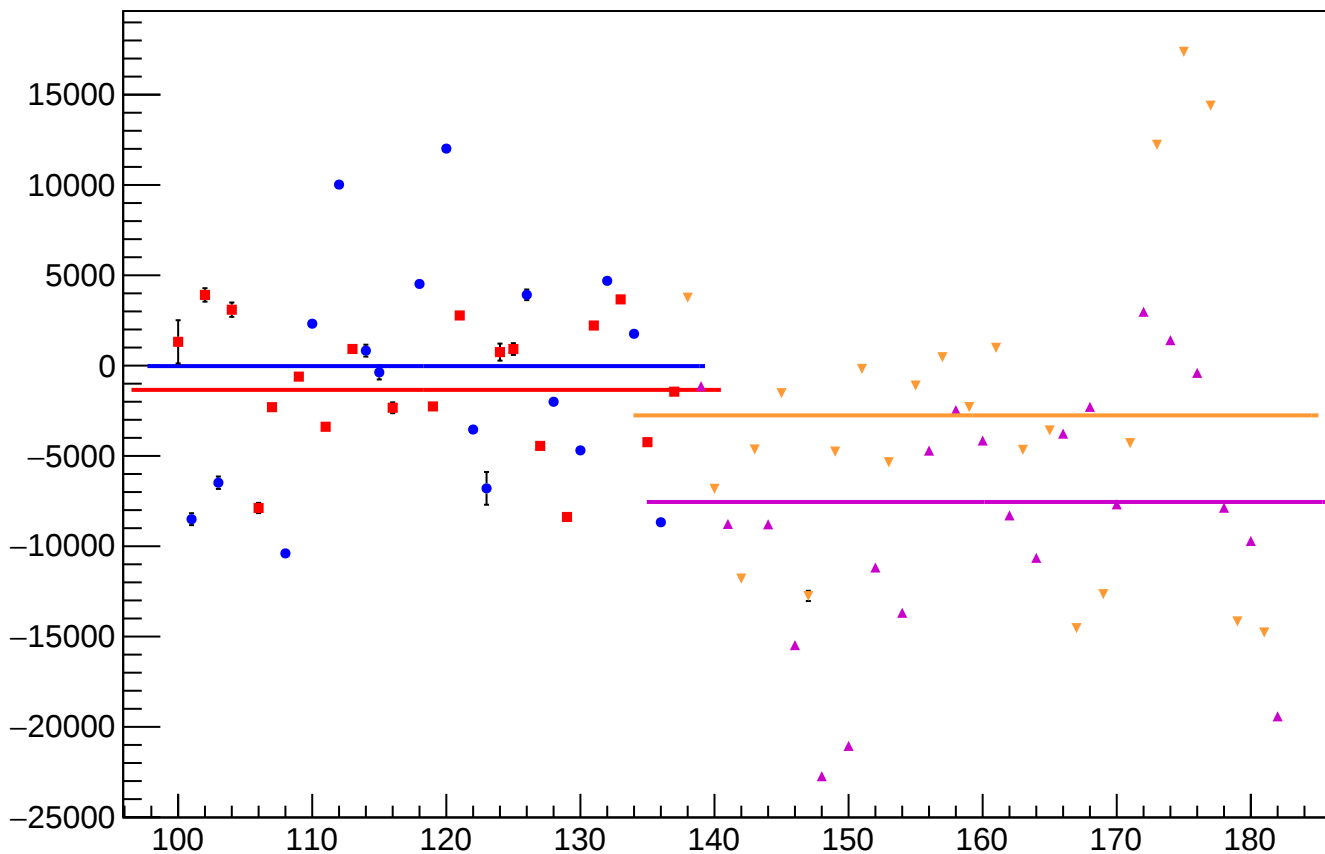
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.898 $\pm$ 0.028 χ^2/NDF : 817255.1/16
 Left Out: 124.104 $\pm$ 0.022 χ^2/NDF : 2284692.0/22
 Right Out: 95.130 $\pm$ 0.027 χ^2/NDF : 858457.3/18
 Left In: 127.640 $\pm$ 0.023 χ^2/NDF : 2241733.2/21

Left: 125.805 $\pm$ 0.016 χ^2/NDF : 4538915.0/44
 Right: 95.969 $\pm$ 0.019 χ^2/NDF : 1677765.8/35
 In: 115.543 $\pm$ 0.018 χ^2/NDF : 3775135.1/38
 Out: 112.521 $\pm$ 0.017 χ^2/NDF : 3840009.8/41
 All: 113.967 $\pm$ 0.012 χ^2/NDF : 7630266.0/80

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -27.457 ± 54.732 χ^2/NDF : 16364.6/16

Left Out: -2754.920 ± 41.316 χ^2/NDF : 32782.6/22

Right Out: -1343.122 ± 52.343 χ^2/NDF : 3846.7/18

Left In: -7549.024 ± 43.209 χ^2/NDF : 19947.7/21

Left: -5044.639 ± 29.862 χ^2/NDF : 59161.0/44

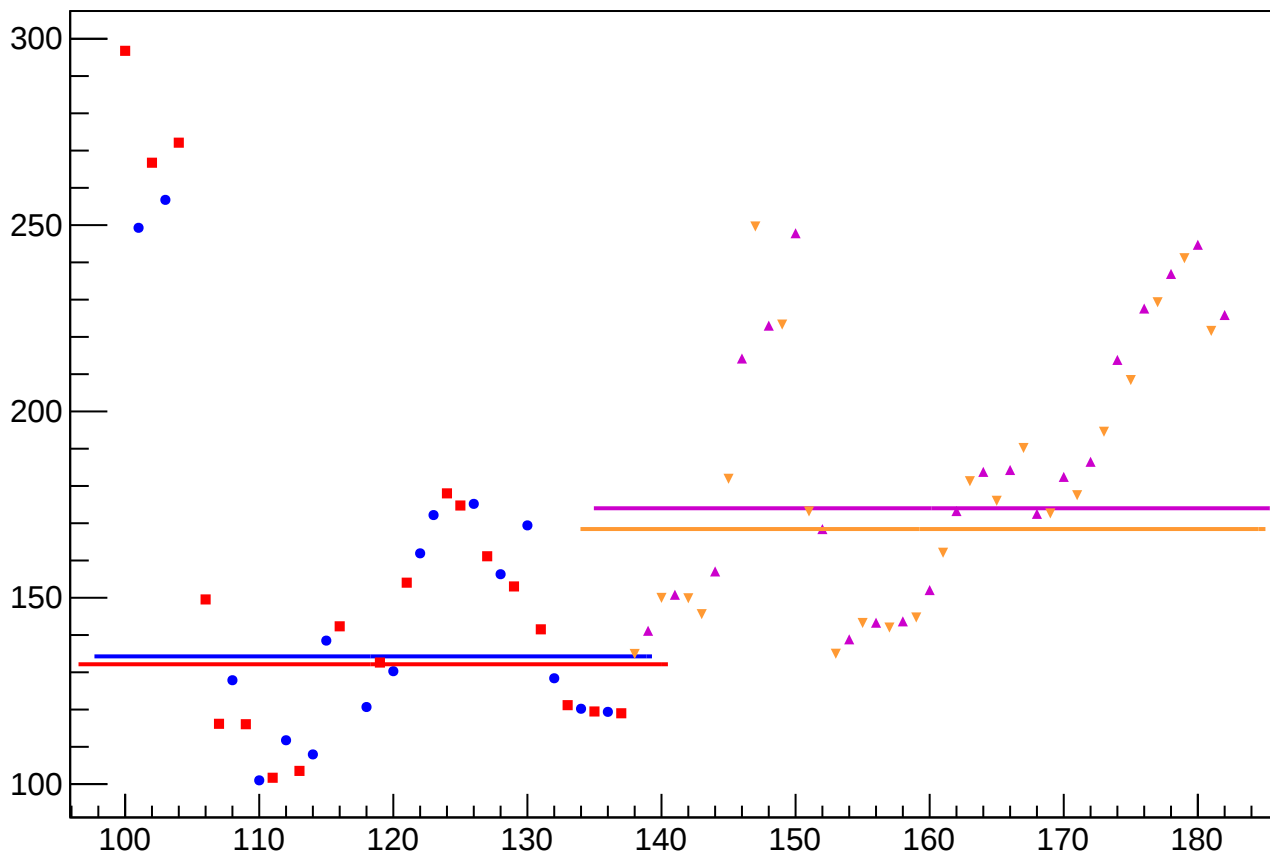
Right: -714.627 ± 37.829 χ^2/NDF : 20513.1/35

In: -4661.069 ± 33.914 χ^2/NDF : 47946.7/38

Out: -2212.971 ± 32.430 χ^2/NDF : 37077.6/41

All: -3382.295 ± 23.439 χ^2/NDF : 87746.0/80

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.270 +/- 0.039 χ^2/NDF : 787098.5/16

Left Out: 168.442 +/- 0.029 χ^2/NDF : 1140327.7/22

Right Out: 132.155 +/- 0.037 χ^2/NDF : 865020.1/18

Left In: 174.015 +/- 0.031 χ^2/NDF : 1181054.0/21

Left: 171.104 +/- 0.021 χ^2/NDF : 2338760.6/44

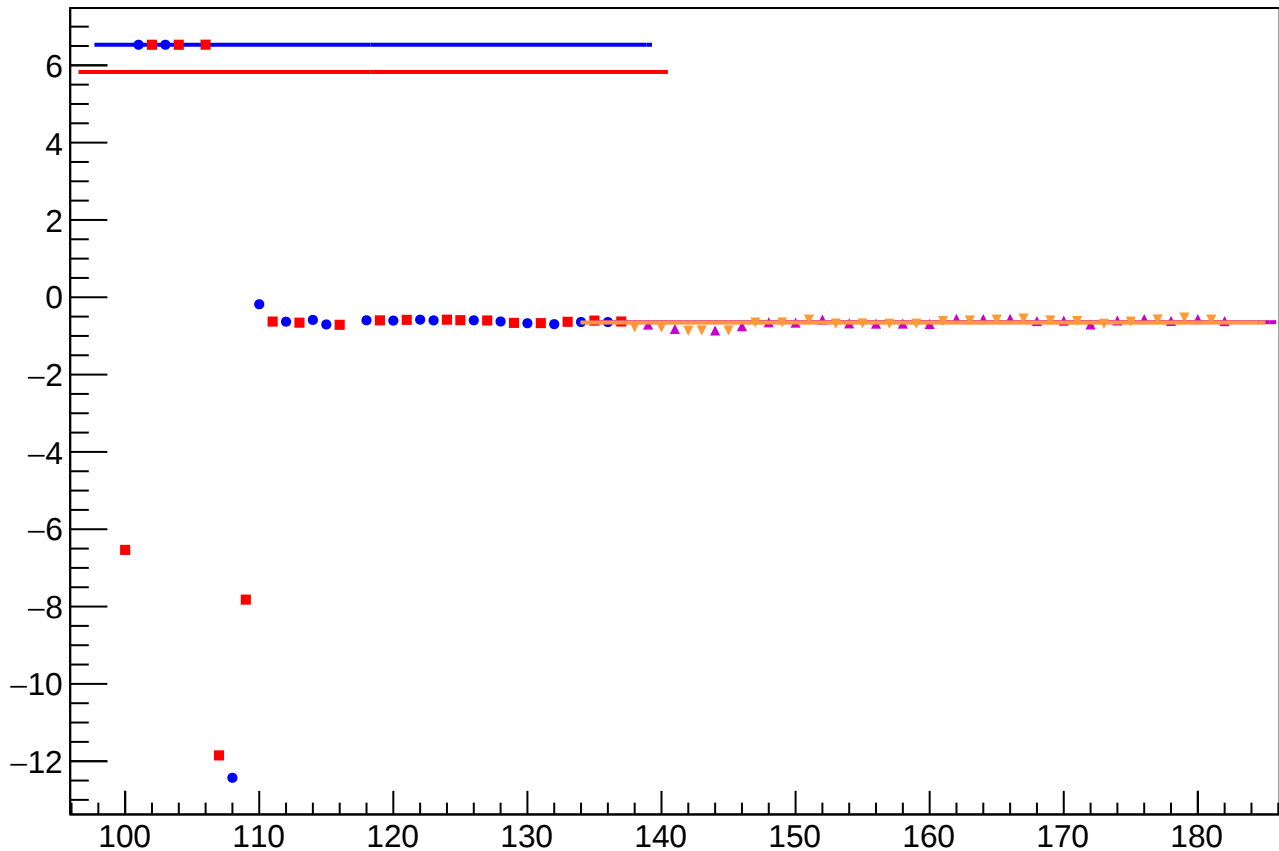
Right: 133.165 +/- 0.027 χ^2/NDF : 1653679.5/35

In: 158.755 +/- 0.024 χ^2/NDF : 2617869.3/38

Out: 154.513 +/- 0.023 χ^2/NDF : 2597597.7/41

All: 156.539 +/- 0.017 χ^2/NDF : 5231814.3/80

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127565119308.7/16

Left Out: -0.652+/-0.000 χ^2/NDF : 170982069.9/22

Right Out: 5.827+/-0.000 χ^2/NDF : 755947318870738.2/18

Left In: -0.644+/-0.000 χ^2/NDF : 122799194.6/21

Left: -0.648+/-0.000 χ^2/NDF : 294342331.9/44

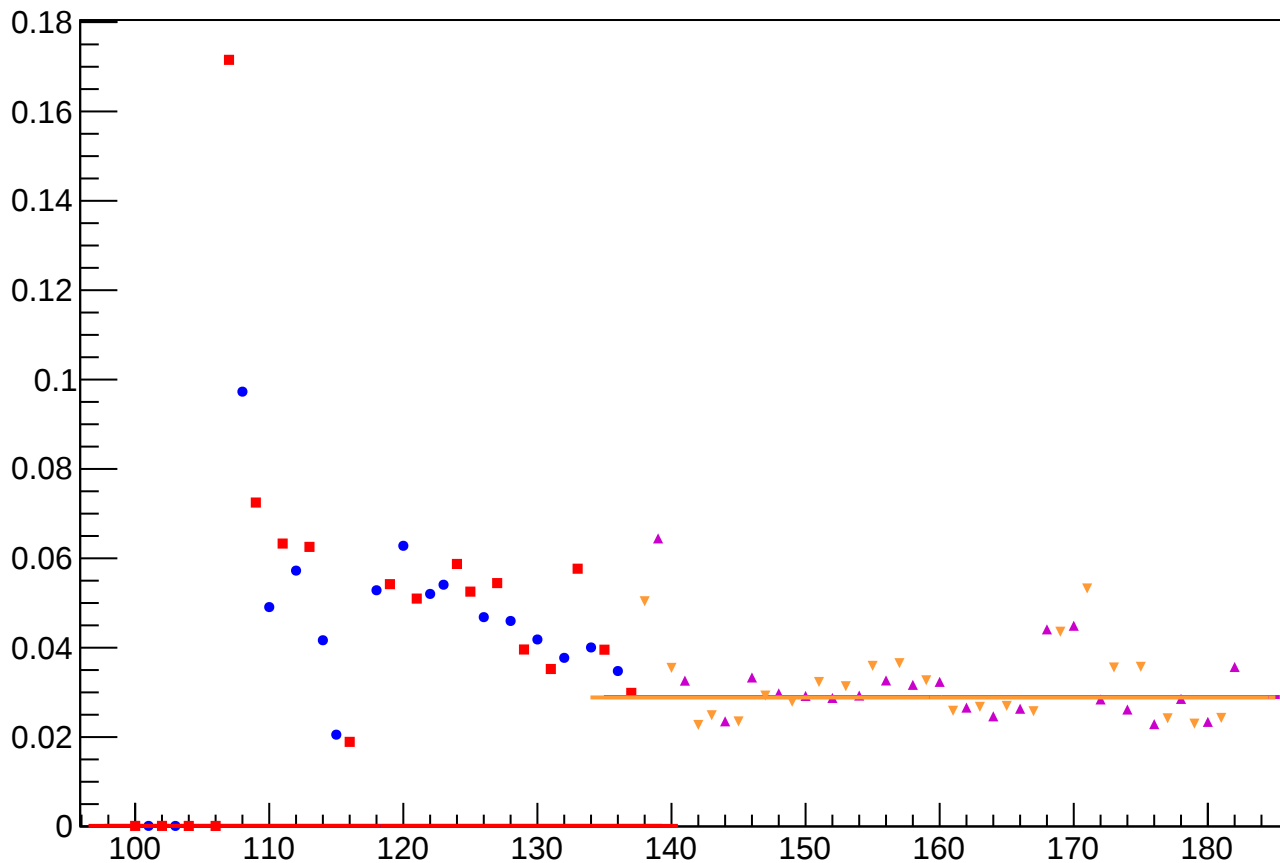
Right: 6.155+/-0.000 χ^2/NDF : 776078051369928.0/44

In: 6.530+/-0.000 χ^2/NDF : 944731837775.2/38

Out: 5.826+/-0.000 χ^2/NDF : 756631829990363.5/42

All: 6.153+/-0.000 χ^2/NDF : 77756704494464.0/86

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 :1298685.1/22

Right Out: 0.000+/-0.000 χ^2/NDF : 9347467.6/18

Left In: 0.029+/-0.000 χ^2/NDF :1143072.3/21

Left: 0.029+/-0.000 χ^2/NDF : 2441887.3/44

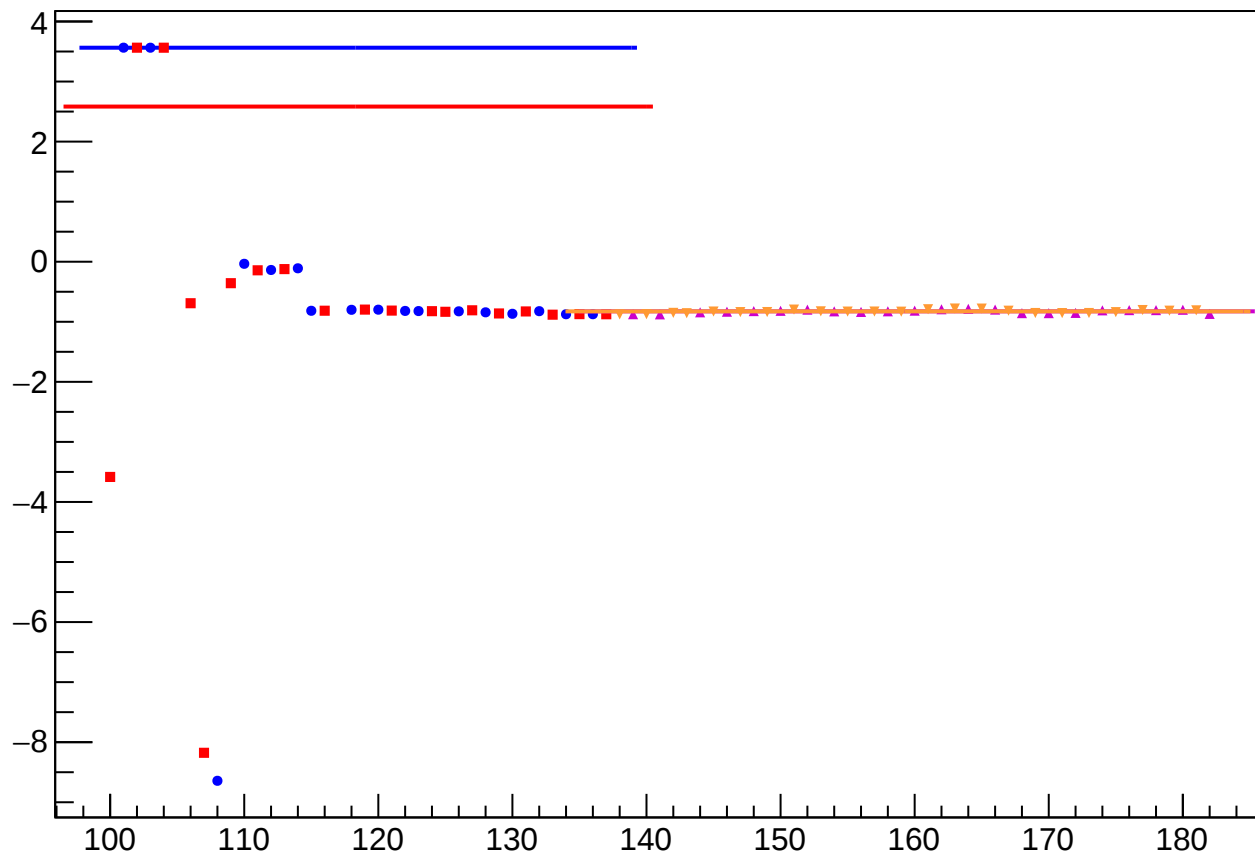
Right: 0.000+/-0.000 χ^2/NDF : 18355822.2/35

In: 0.000+/-0.000 χ^2/NDF :36532387.1/38

Out: 0.000+/-0.000 χ^2/NDF :37577433.3/41

All: 0.000+/-0.000 χ^2/NDF : 74110297.9/80

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 485019512048.0/16

Left Out: -0.827+/-0.000 χ^2/NDF : 160140047.7/22

Right Out: 2.583+/-0.000 χ^2/NDF : 1253504623679499.2/18

Left In: -0.826+/-0.000 χ^2/NDF : 166972041.9/21

Left: -0.826+/-0.000 χ^2/NDF : 327137347.6/44

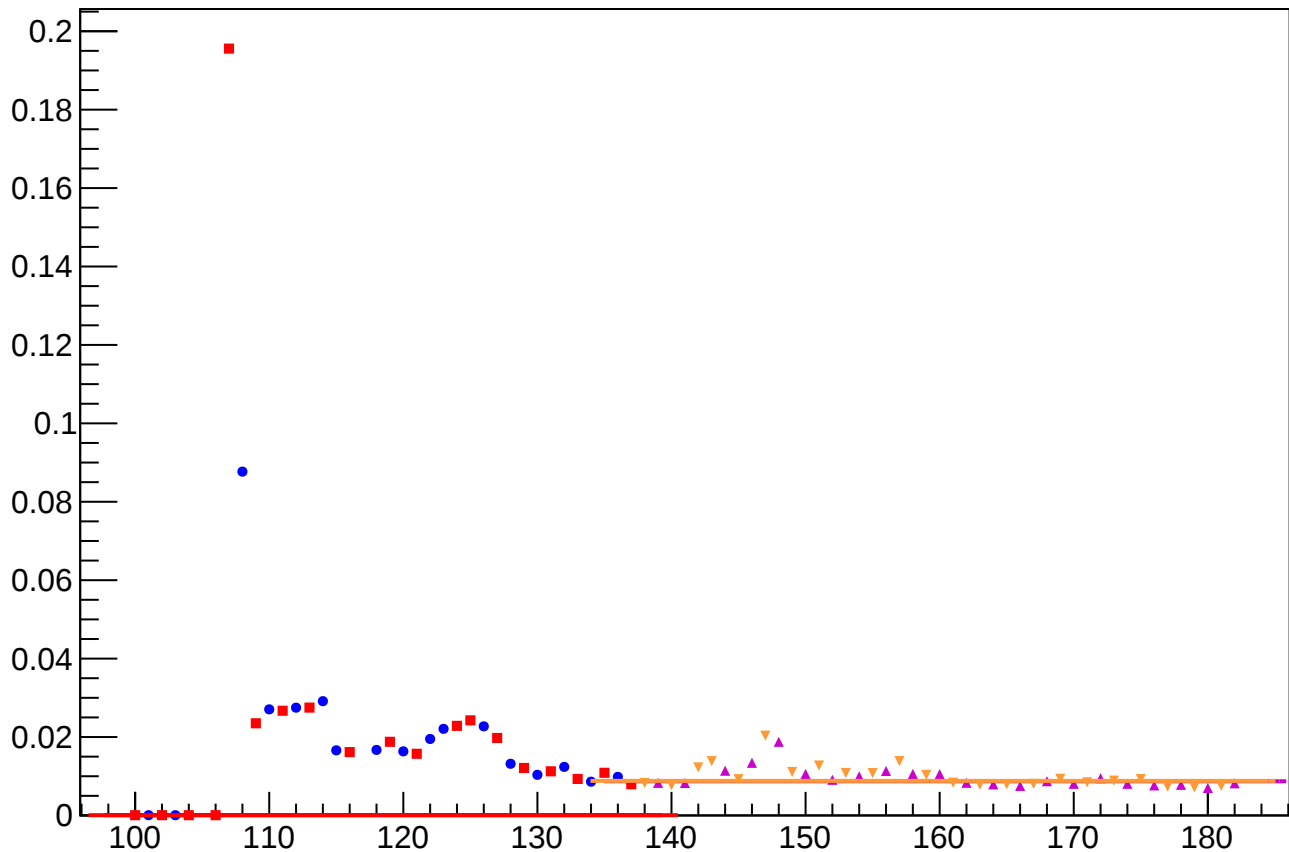
Right: 3.040+/-0.000 χ^2/NDF : 1382260831198329.0

In: 3.560+/-0.000 χ^2/NDF : 4087042361961.4/38

Out: 2.581+/-0.000 χ^2/NDF : 1255657164530604.0

All: 3.038+/-0.000 χ^2/NDF : 13878237544786

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 :1321541.2/22

Right Out: 0.000+/-0.000 χ^2/NDF : 9837255.2/18

Left In: 0.009+/-0.000 χ^2/NDF :1024570.9/21

Left: 0.009+/-0.000 χ^2/NDF : 2347893.2/44

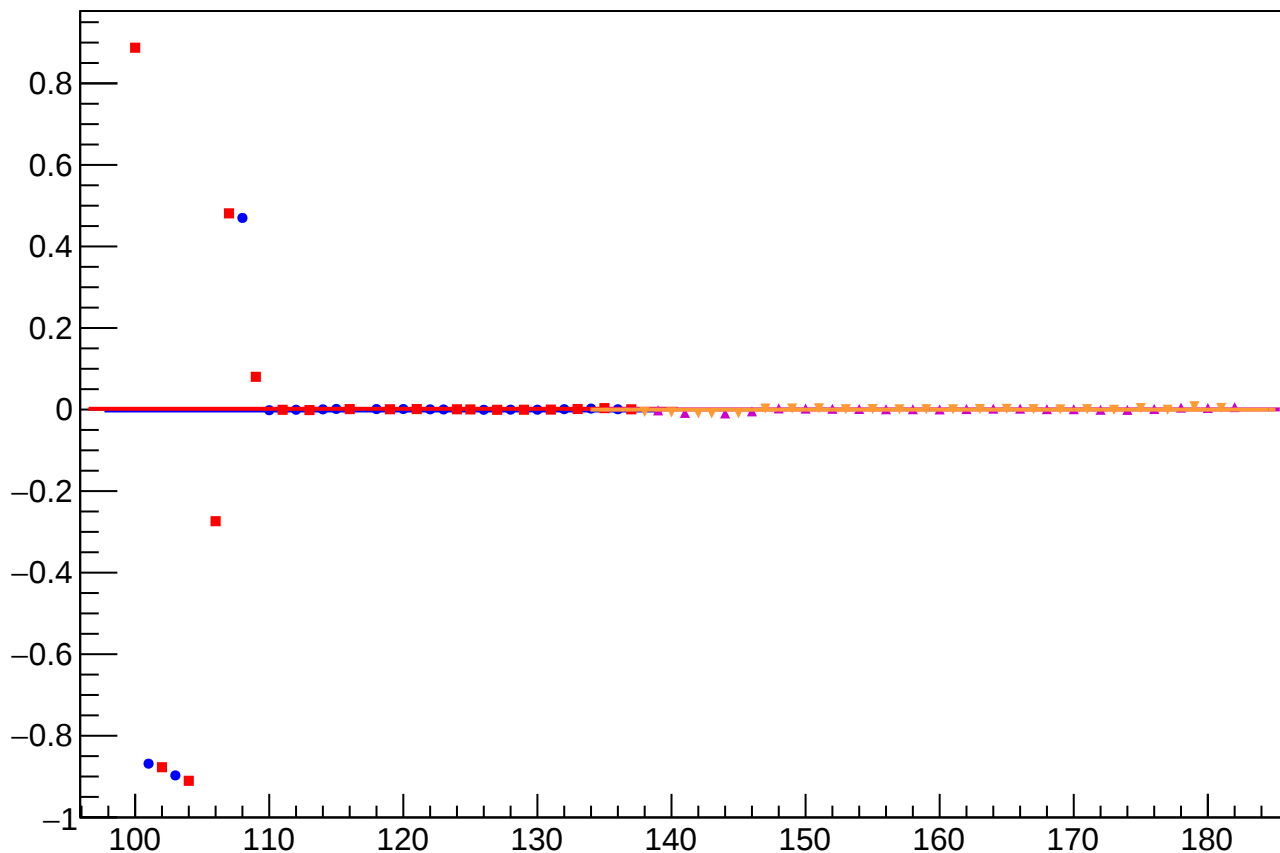
Right: 0.000+/-0.000 χ^2/NDF : 19651558.2/35

In: 0.000+/-0.000 χ^2/NDF :38849665.8/38

Out: 0.000+/-0.000 χ^2/NDF :39531146.4/41

All: 0.000+/-0.000 χ^2/NDF : 78381711.4/80

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795455603.3/16

Left: 0.000+/-0.000 χ^2/NDF : 233130759.5/44

Right: -0.000+/-0.000 χ^2/NDF : 12850553248.4/35

Left Out: -0.000+/-0.000

χ^2/NDF : 138864490.4/22

In: -0.000+/-0.000 χ^2/NDF : 9898354137.5/38

Right Out: 0.002+/-0.000

χ^2/NDF : 3041330797.2/18

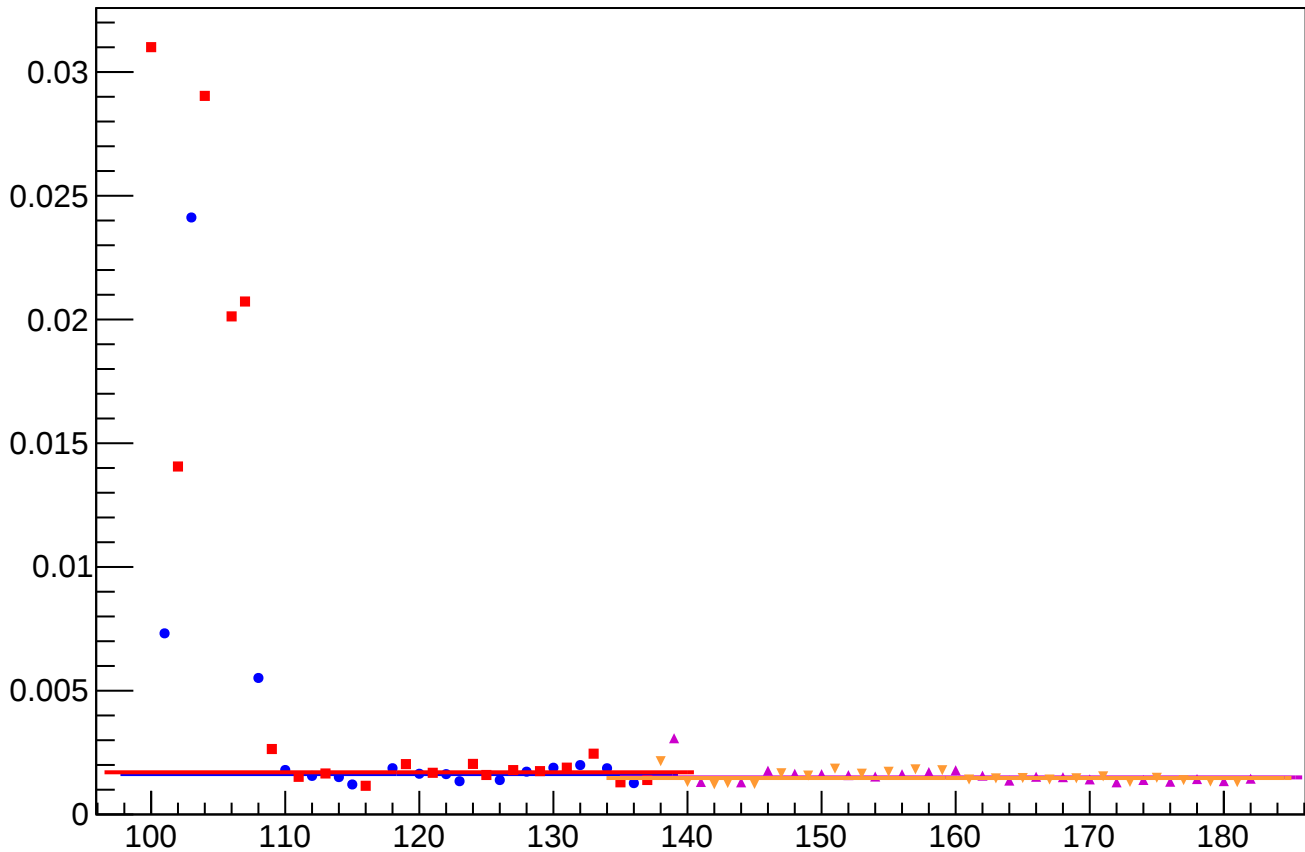
Out: 0.000+/-0.000 χ^2/NDF : 3185263432.8/41

Left In: 0.000+/-0.000

χ^2/NDF : 93149640.1/21

All: 0.000+/-0.000 χ^2/NDF : 13084185304.2/8

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1922148.8/16

Left Out: 0.001+/-0.000 χ^2/NDF : 508859.8/22

Right Out: 0.002+/-0.000 χ^2/NDF : 3024458.4/18

Left In: 0.001+/-0.000 χ^2/NDF : 621907.8/21

Left: 0.001+/-0.000 χ^2/NDF : 1134996.8/44

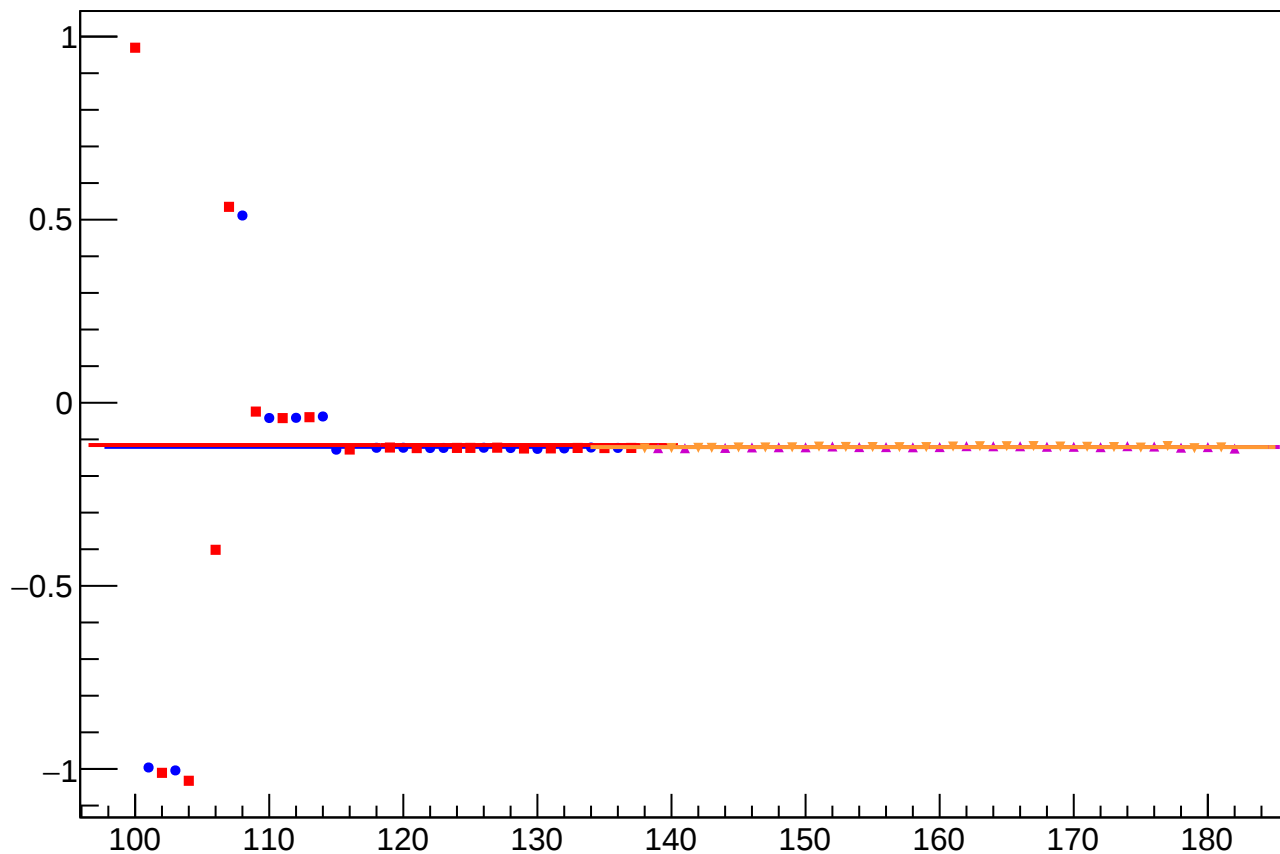
Right: 0.002+/-0.000 χ^2/NDF : 4954975.3/35

In: 0.002+/-0.000 χ^2/NDF : 2591868.7/38

Out: 0.002+/-0.000 χ^2/NDF : 3666569.6/41

All: 0.002+/-0.000 χ^2/NDF : 6259313.3/80

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000

χ^2/NDF : 3932772427.7/16

Left: -0.121+/-0.000

χ^2/NDF : 100849163.5/44

Left Out: -0.121+/-0.000

χ^2/NDF : 55265983.5/22

Right: -0.118+/-0.000

χ^2/NDF : 6412289085.1/35

Right Out: -0.115+/-0.000

χ^2/NDF : 2456433698.5/18

In: -0.121+/-0.000

χ^2/NDF : 3978578743.4/38

Out: -0.120+/-0.000

χ^2/NDF : 2565408331.1/41

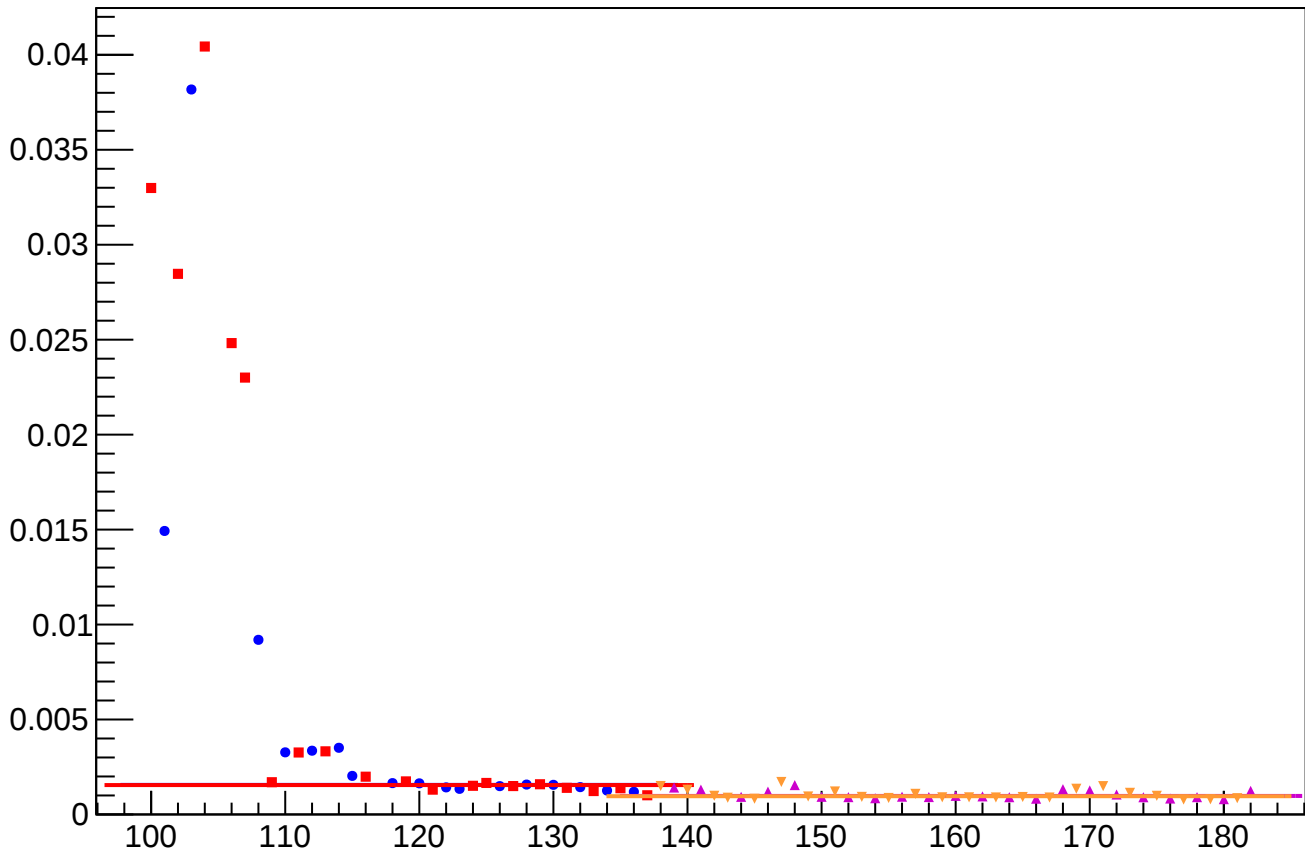
Left In: -0.121+/-0.000

χ^2/NDF : 45360139.3/21

All: -0.121+/-0.000

χ^2/NDF : 6545063332.7/8

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2/NDF : 2898219.2/16

Left Out: 0.001 $\pm$ 0.000 χ^2/NDF :1238971.7/22

Right Out: 0.002 $\pm$ 0.000 χ^2/NDF : 3535649.7/18

Left In: 0.001 $\pm$ 0.000 χ^2/NDF :948645.4/21

Left: 0.001 $\pm$ 0.000 χ^2/NDF : 2191054.6/44

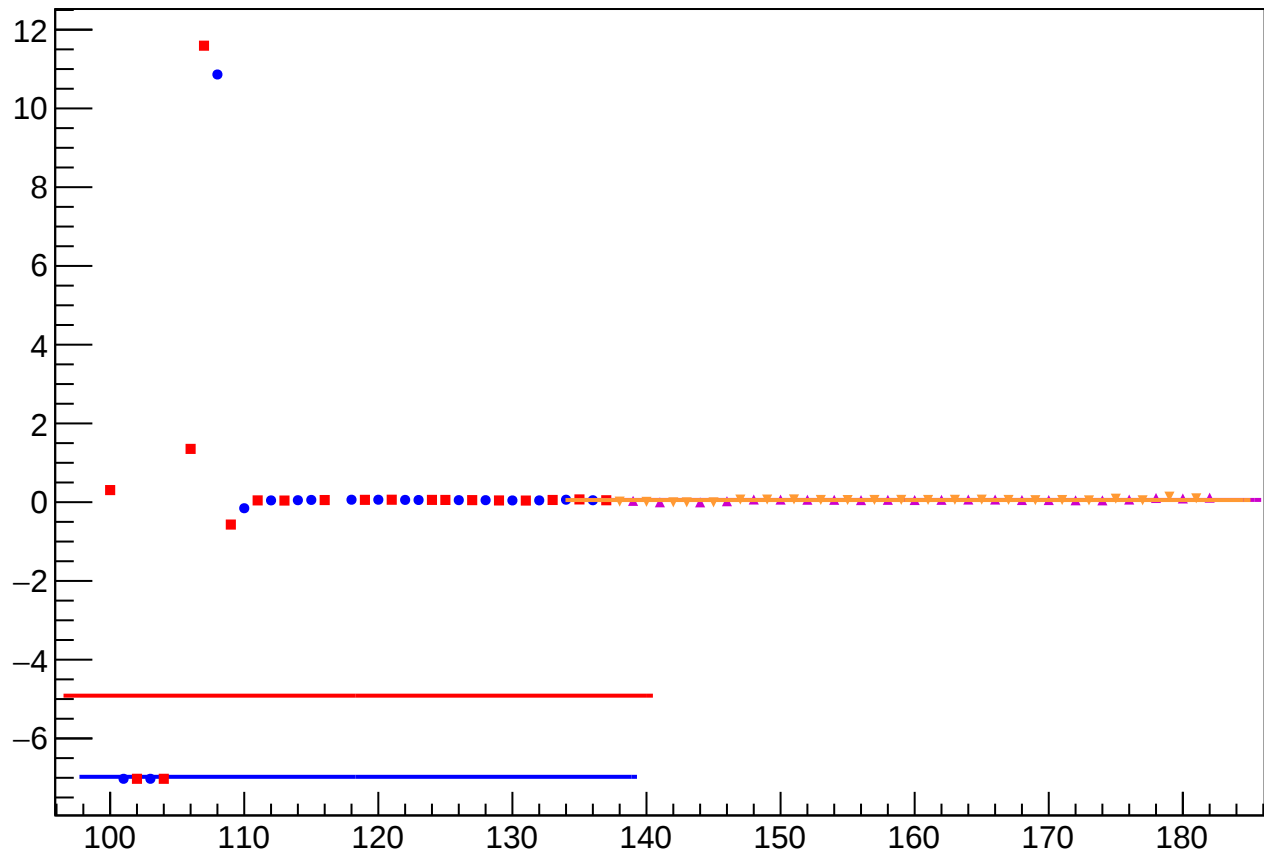
Right: 0.002 $\pm$ 0.000 χ^2/NDF : 6434006.7/35

In: 0.001 $\pm$ 0.000 χ^2/NDF :4995806.3/38

Out: 0.001 $\pm$ 0.000 χ^2/NDF :5949965.0/41

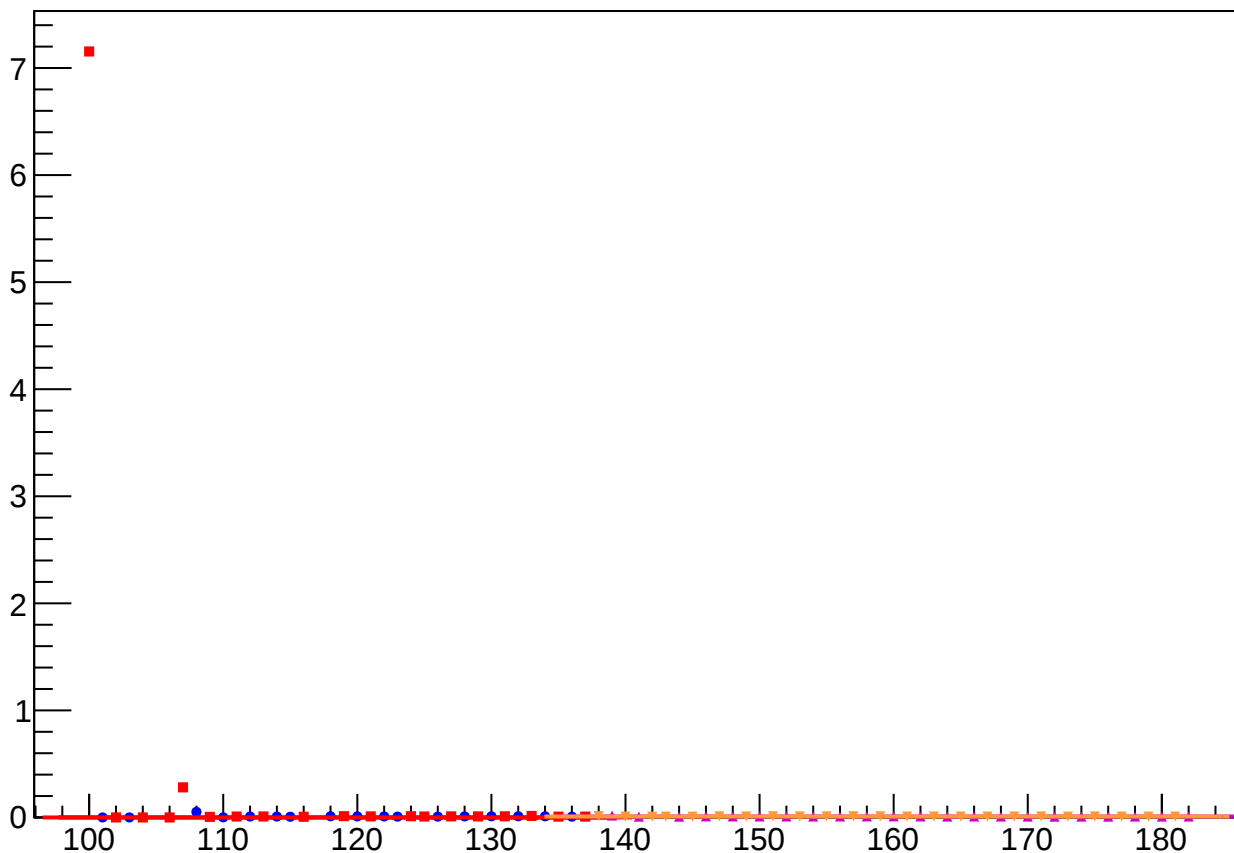
All: 0.001 $\pm$ 0.000 χ^2/NDF : 10950747.0/80

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8797358006083.6/16
 Left Out: 0.054+/-0.000 χ^2/NDF : 220628490.3/22
 Right Out: -4.914+/-0.000 χ^2/NDF : 365352656389636.4/18
 Left In: 0.057+/-0.000 χ^2/NDF : 153478136.8/21
 Left: 0.056+/-0.000 χ^2/NDF : 375112239.8/44
 Right: -5.900+/-0.000 χ^2/NDF : 430333266539126.9
 In: -6.927+/-0.000 χ^2/NDF : 17368746897637.3/38
 Out: -4.881+/-0.000 χ^2/NDF : 369874454332786.0
 All: -5.860+/-0.000 χ^2/NDF : 4429787520459

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 : 482502.0/22

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 8775433.1/18

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 595651.0/21

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 1083355.9/44

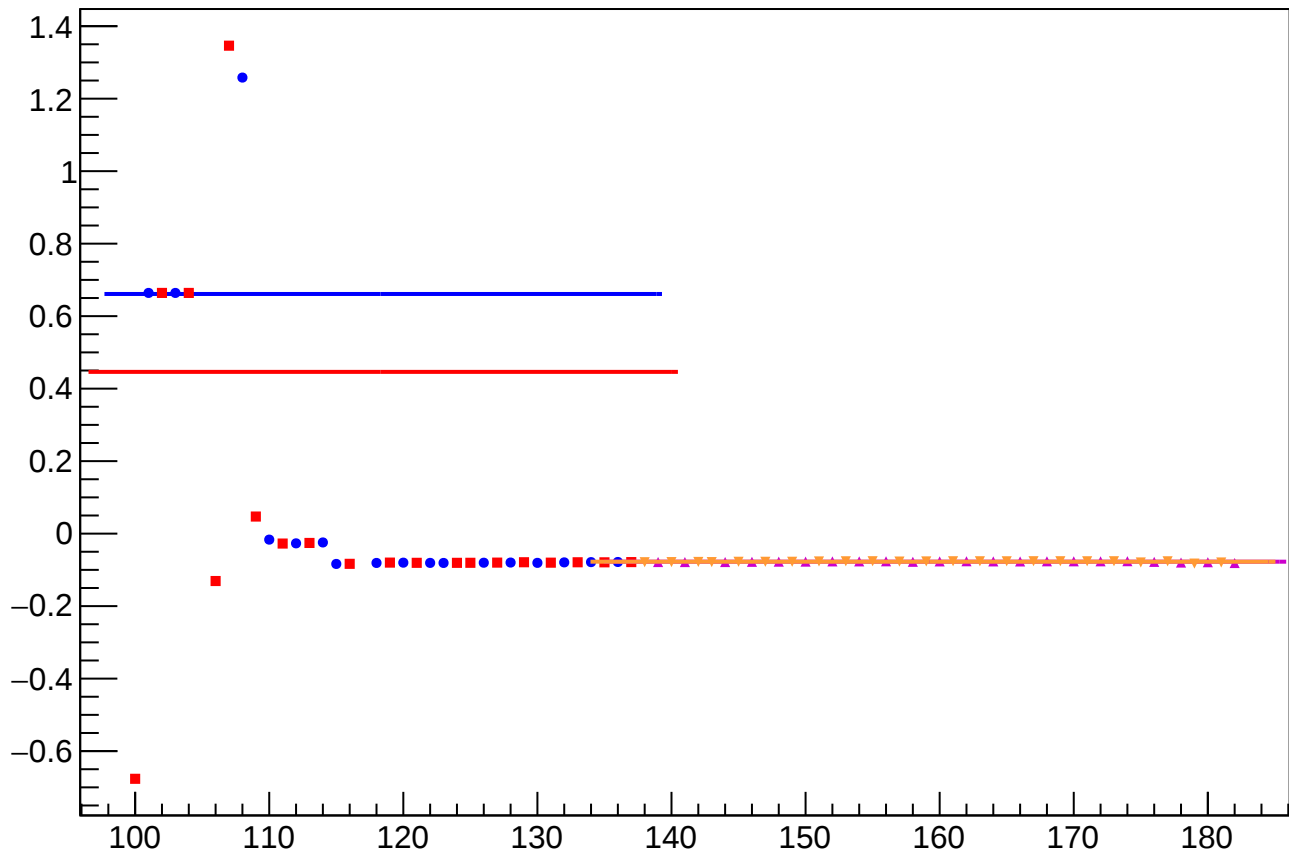
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 17126212.9/35

In: 0.000 $\pm$ 0.000 χ^2/NDF : 35333407.3/38

Out: 0.000 $\pm$ 0.000 χ^2/NDF : 36094434.7/41

All: 0.000 $\pm$ 0.000 χ^2/NDF : 71428993.8/80

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661 $\pm$ 0.000

χ^2/NDF : 5658672217179.3/16

Left: -0.077 $\pm$ 0.000

χ^2/NDF : 228914739.1/44

Left Out: -0.077 $\pm$ 0.000

χ^2/NDF : 144525720.8/22

Right: 0.549 $\pm$ 0.000

χ^2/NDF : 474000383494468.1

Right Out: 0.446 $\pm$ 0.000

χ^2/NDF : 405428422570886.0/18

In: 0.647 $\pm$ 0.000

χ^2/NDF : 33265310038476.9/38

Out: 0.437 $\pm$ 0.000

χ^2/NDF : 419795560142776.5/4

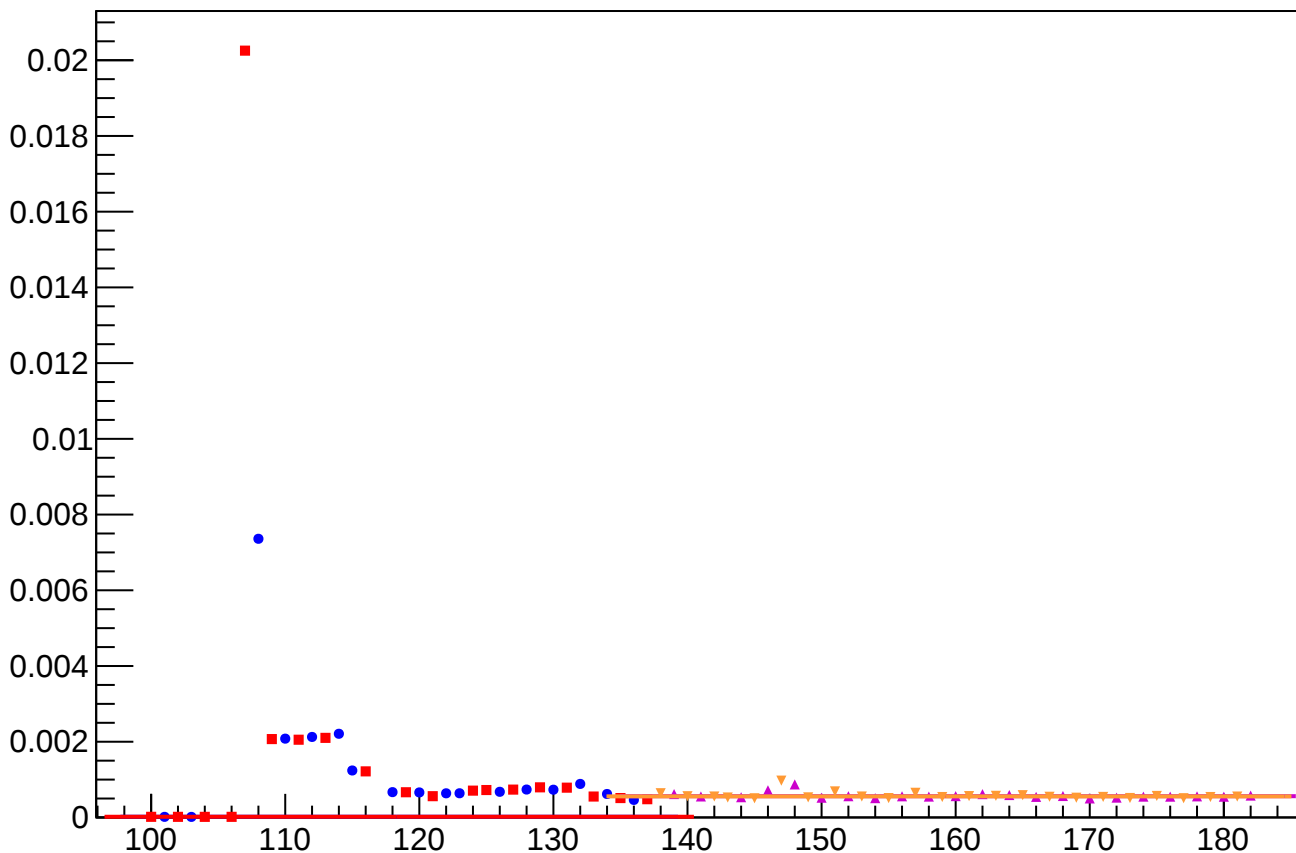
Left In: -0.077 $\pm$ 0.000

χ^2/NDF : 84340078.6/21

All: 0.537 $\pm$ 0.000

χ^2/NDF : 51439800071835

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 : 457073.6/22

Right Out: 0.000+/-0.000

χ^2/NDF : 9460895.3/18

Left In: 0.001+/-0.000

χ^2/NDF : 355329.0/21

Left: 0.001+/-0.000

χ^2/NDF : 813609.3/44

Right: 0.000+/-0.000

χ^2/NDF : 19419231.6/35

In: 0.000+/-0.000

χ^2/NDF : 40210100.5/38

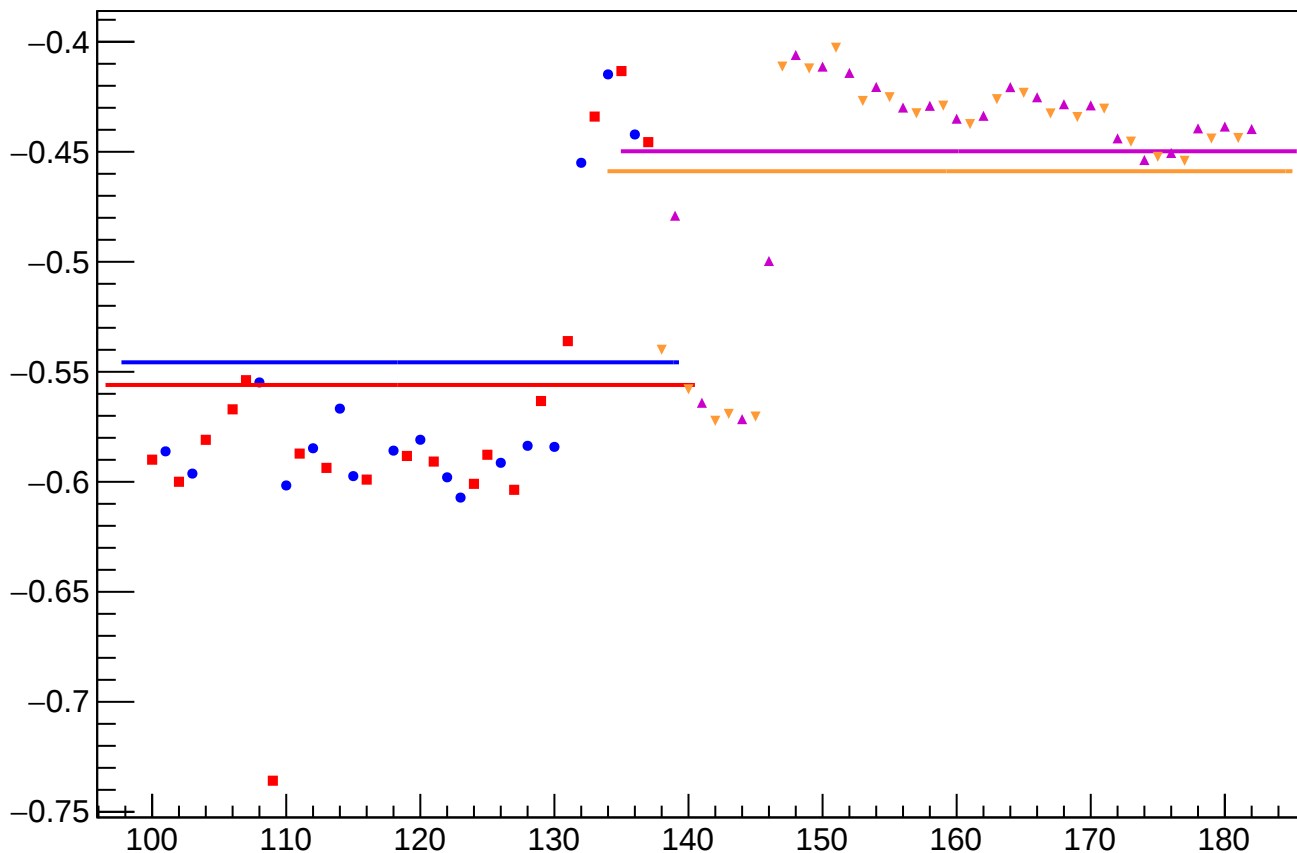
Out: 0.000+/-0.000

χ^2/NDF : 40326989.4/41

All: 0.000+/-0.000

χ^2/NDF : 80538597.4/80

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546 ± 0.000 χ^2/NDF : 46331446.0/16

Left Out: -0.459 ± 0.000 χ^2/NDF : 107748221.0/22

Right Out: -0.556 ± 0.000 χ^2/NDF : 64058429.8/18

Left In: -0.450 ± 0.000 χ^2/NDF : 76113813.4/21

Left: -0.454 ± 0.000 χ^2/NDF : 185382854.9/44

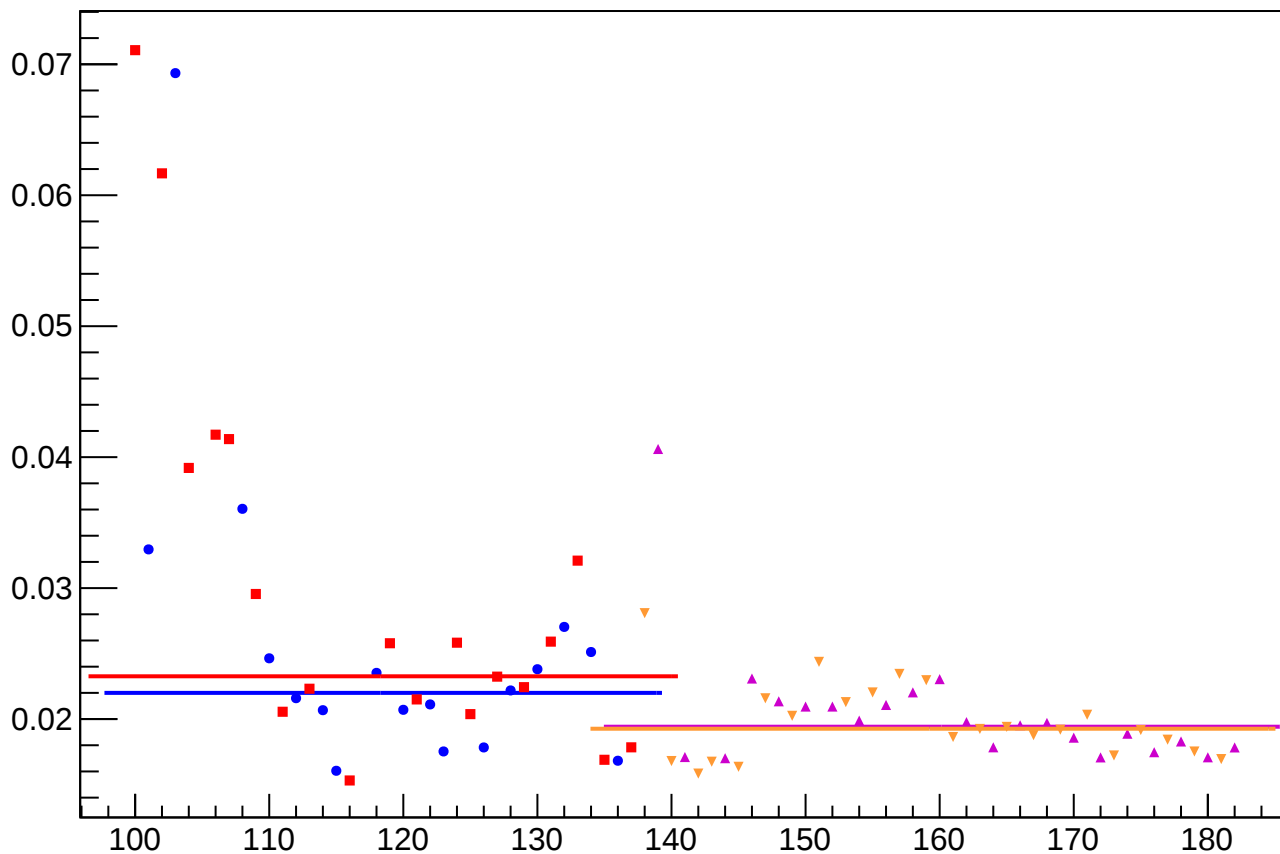
Right: -0.551 ± 0.000 χ^2/NDF : 110929363.5/35

In: -0.471 ± 0.000 χ^2/NDF : 197607092.5/38

Out: -0.479 ± 0.000 χ^2/NDF : 245407429.3/41

All: -0.475 ± 0.000 χ^2/NDF : 444383487.1/80

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 : 475471.5/22

Right Out: 0.023+/-0.000 χ^2/NDF : 1155060.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 624646.4/21

Left: 0.019+/-0.000 χ^2/NDF : 1100993.5/44

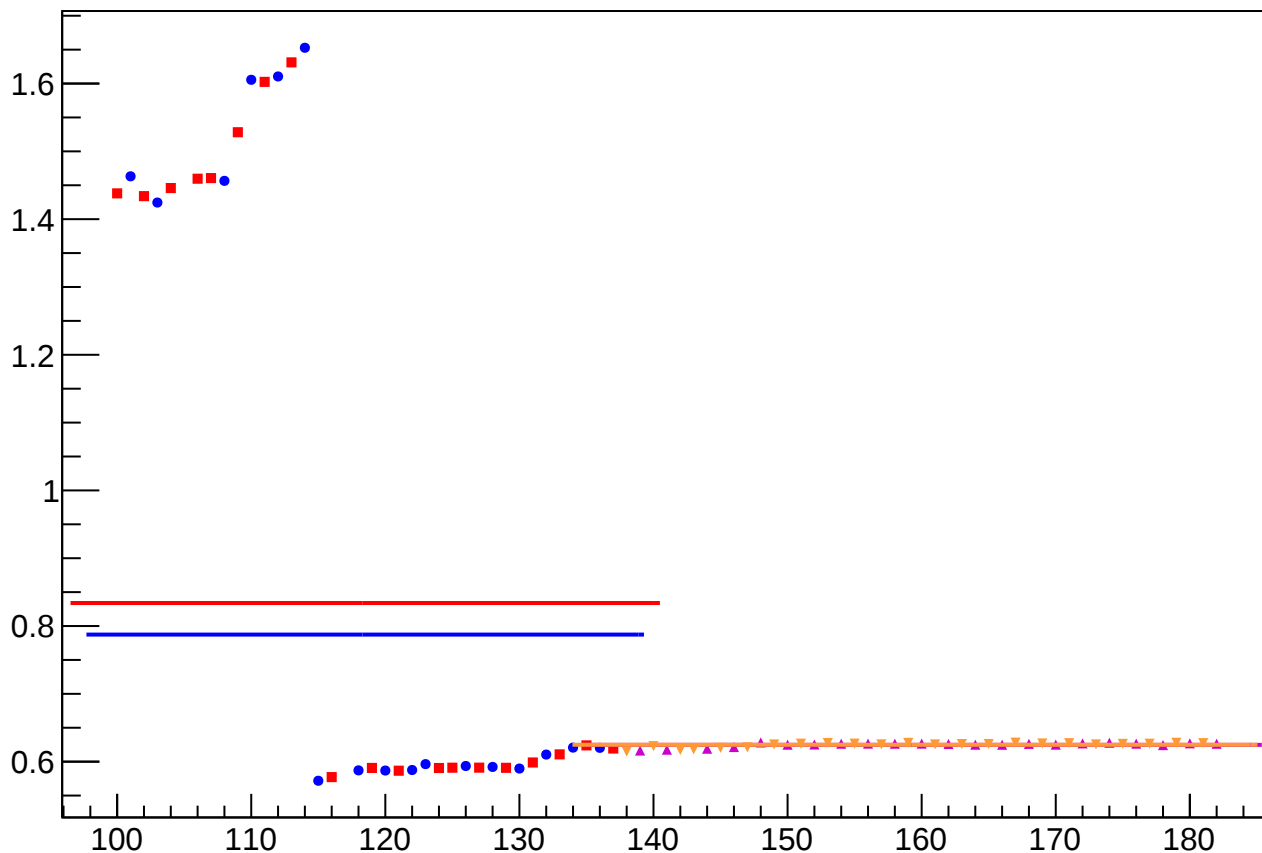
Right: 0.023+/-0.000 χ^2/NDF : 2131038.0/35

In: 0.020+/-0.000 χ^2/NDF : 1693405.3/38

Out: 0.020+/-0.000 χ^2/NDF : 1880495.2/41

All: 0.020+/-0.000 χ^2/NDF : 3574317.1/80

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.787+/-0.000 χ^2/NDF : 3581416919.1/16

Left Out: 0.625+/-0.000 χ^2/NDF :1385341.3/22

Right Out: 0.834+/-0.000 χ^2/NDF : 4150651936.4/18

Left In: 0.625+/-0.000 χ^2/NDF :1120597.5/21

Left: 0.625+/-0.000 χ^2/NDF : 2507730.4/44

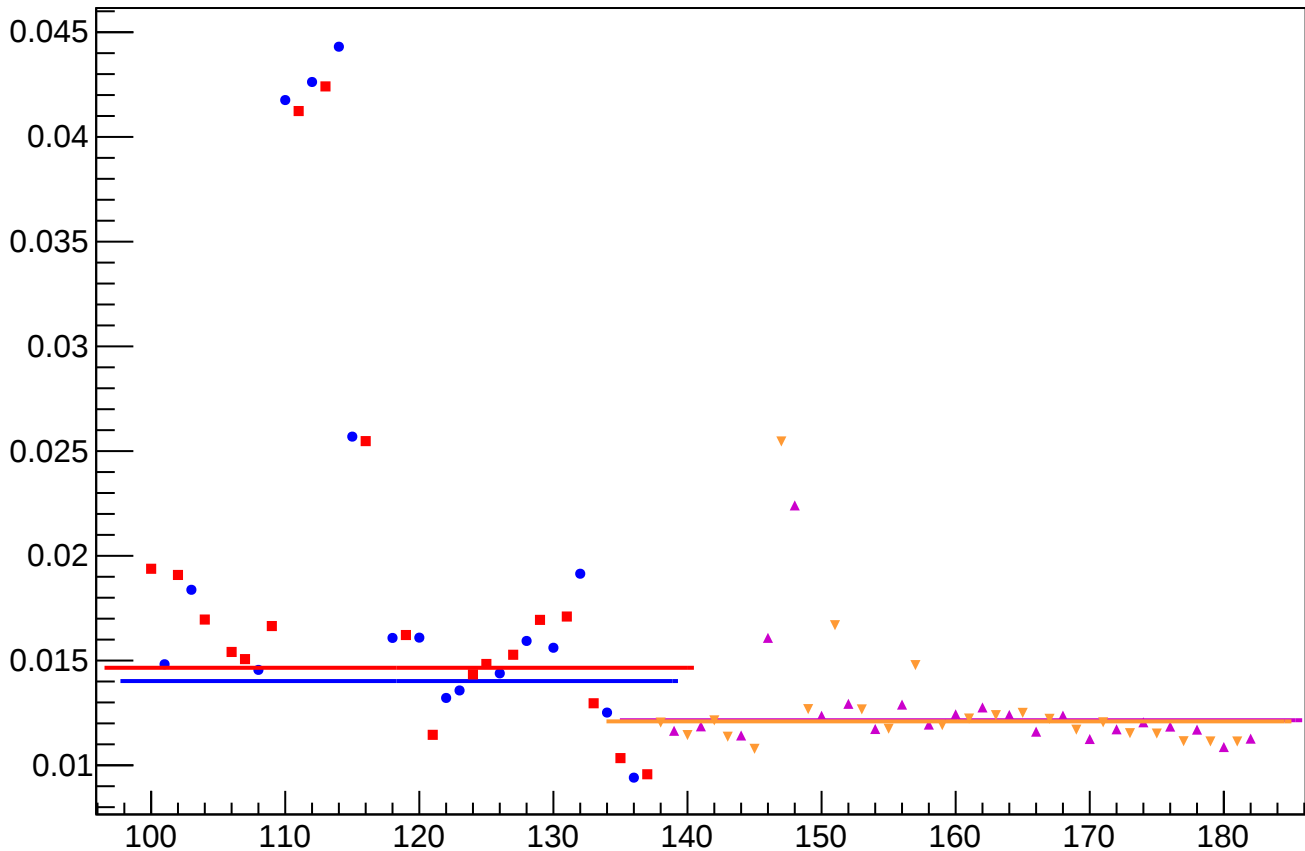
Right: 0.810+/-0.000 χ^2/NDF : 7762825893.7/35

In: 0.658+/-0.000 χ^2/NDF :4187486072.8/38

Out: 0.666+/-0.000 χ^2/NDF :5131200053.5/41

All: 0.662+/-0.000 χ^2/NDF : 9323088094.8/80

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 : 654214.6/22

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 1262071.4/18

Left In: 0.012 $\pm$ 0.000 χ^2/NDF : 485900.7/21

Left: 0.012 $\pm$ 0.000 χ^2/NDF : 1140453.5/44

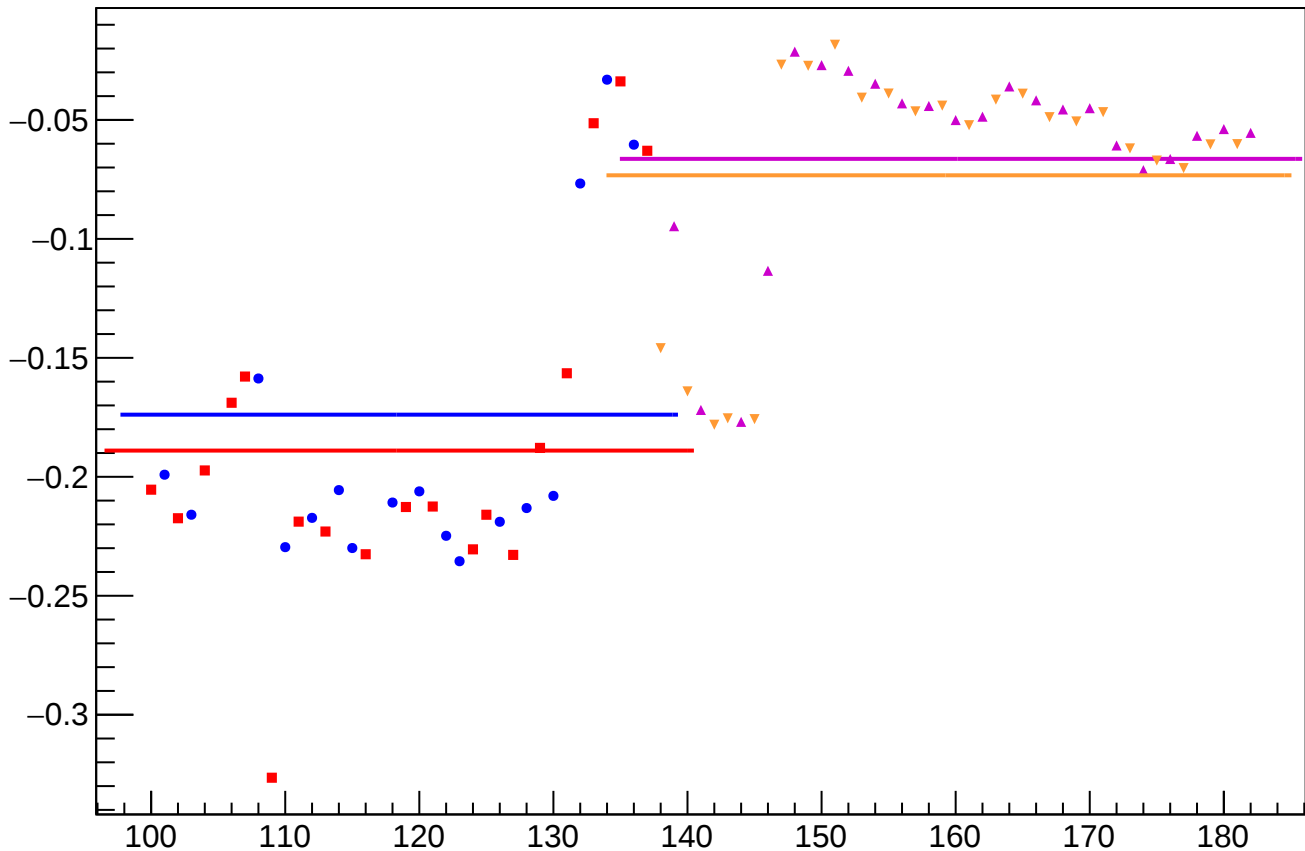
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 2673402.9/35

In: 0.013 $\pm$ 0.000 χ^2/NDF : 2045779.8/38

Out: 0.013 $\pm$ 0.000 χ^2/NDF : 2209715.2/41

All: 0.013 $\pm$ 0.000 χ^2/NDF : 4256083.2/80

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174 ± 0.000 $\chi^2/\text{NDF}: 66778428.3/16$

Left Out: -0.073 ± 0.000 $\chi^2/\text{NDF}: 101973043.4/22$

Right Out: -0.189 ± 0.000 $\chi^2/\text{NDF}: 81975900.9/18$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76239503.8/21$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 179110655.1/44$

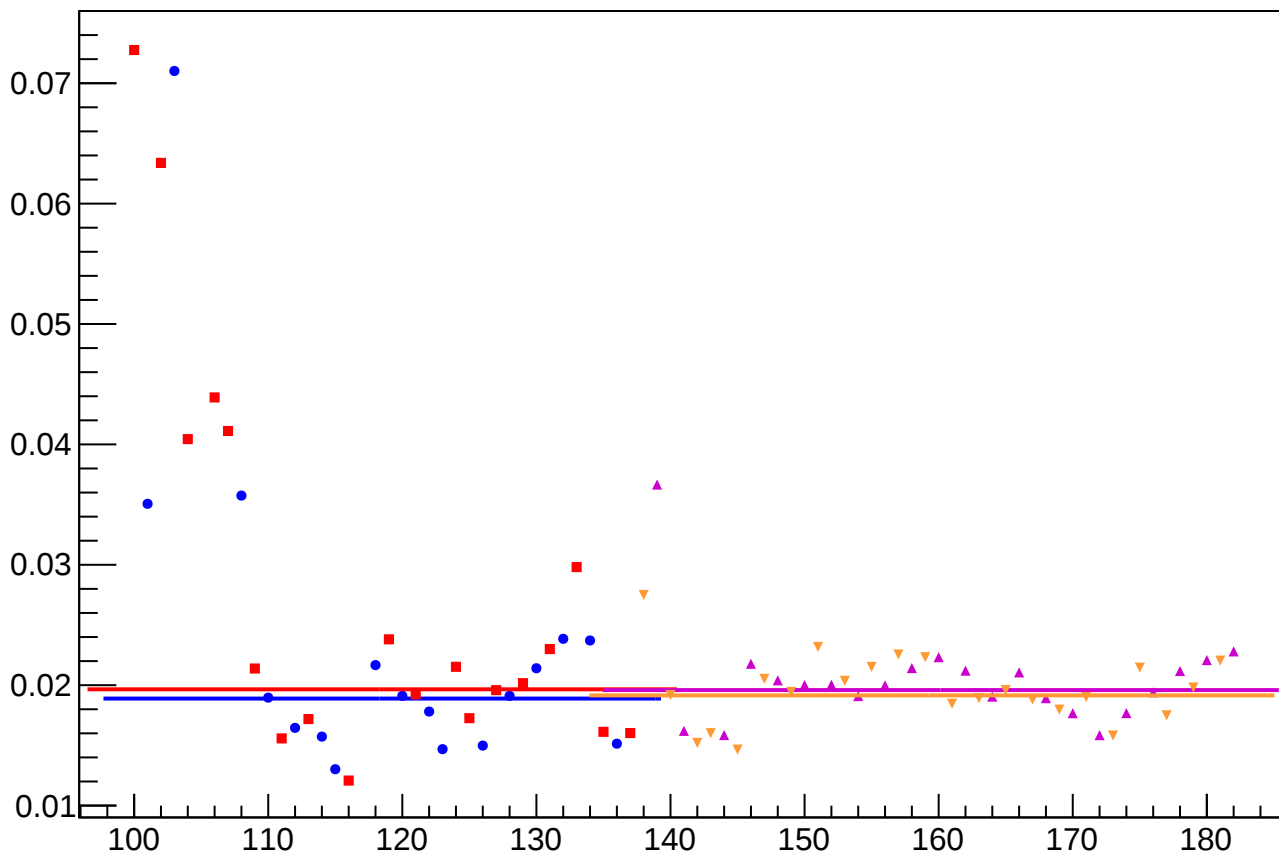
Right: -0.181 ± 0.000 $\chi^2/\text{NDF}: 150315642.4/35$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 260070269.8/38$

Out: -0.103 ± 0.000 $\chi^2/\text{NDF}: 317337372.1/41$

All: -0.100 ± 0.000 $\chi^2/\text{NDF}: 578590579.4/80$

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 : 534369.9/22

Right Out: 0.020+/-0.000 χ^2/NDF : 1454143.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 623066.4/21

Left: 0.019+/-0.000 χ^2/NDF : 1164755.3/44

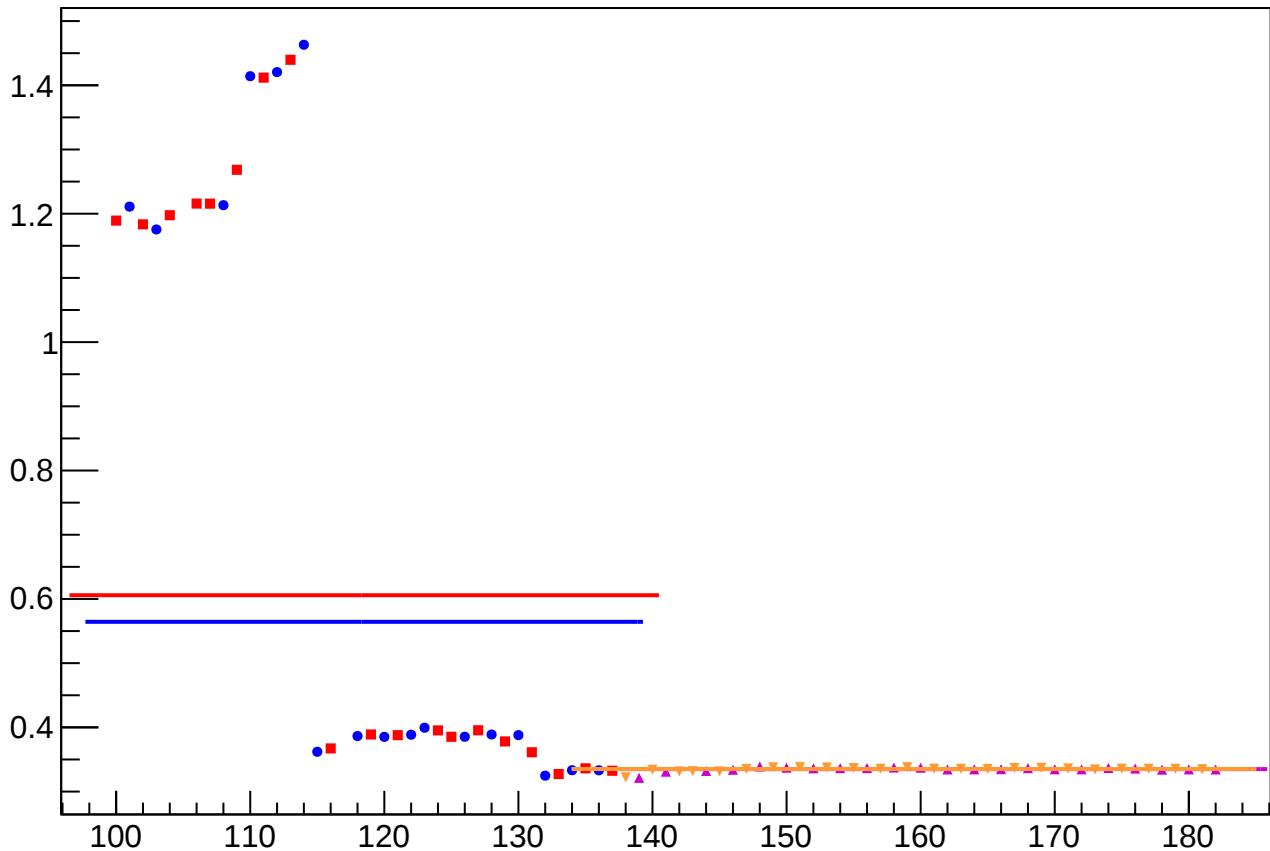
Right: 0.019+/-0.000 χ^2/NDF : 2674059.2/35

In: 0.019+/-0.000 χ^2/NDF : 1844946.6/38

Out: 0.019+/-0.000 χ^2/NDF : 1993594.3/41

All: 0.019+/-0.000 χ^2/NDF : 3839230.7/80

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.564 $\pm$ 0.000 χ^2 /NDF: 5040911893.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1138165.0/22

Right Out: 0.606 $\pm$ 0.000 χ^2 /NDF: 5529469116.6/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1200516.2/21

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2340338.8/44

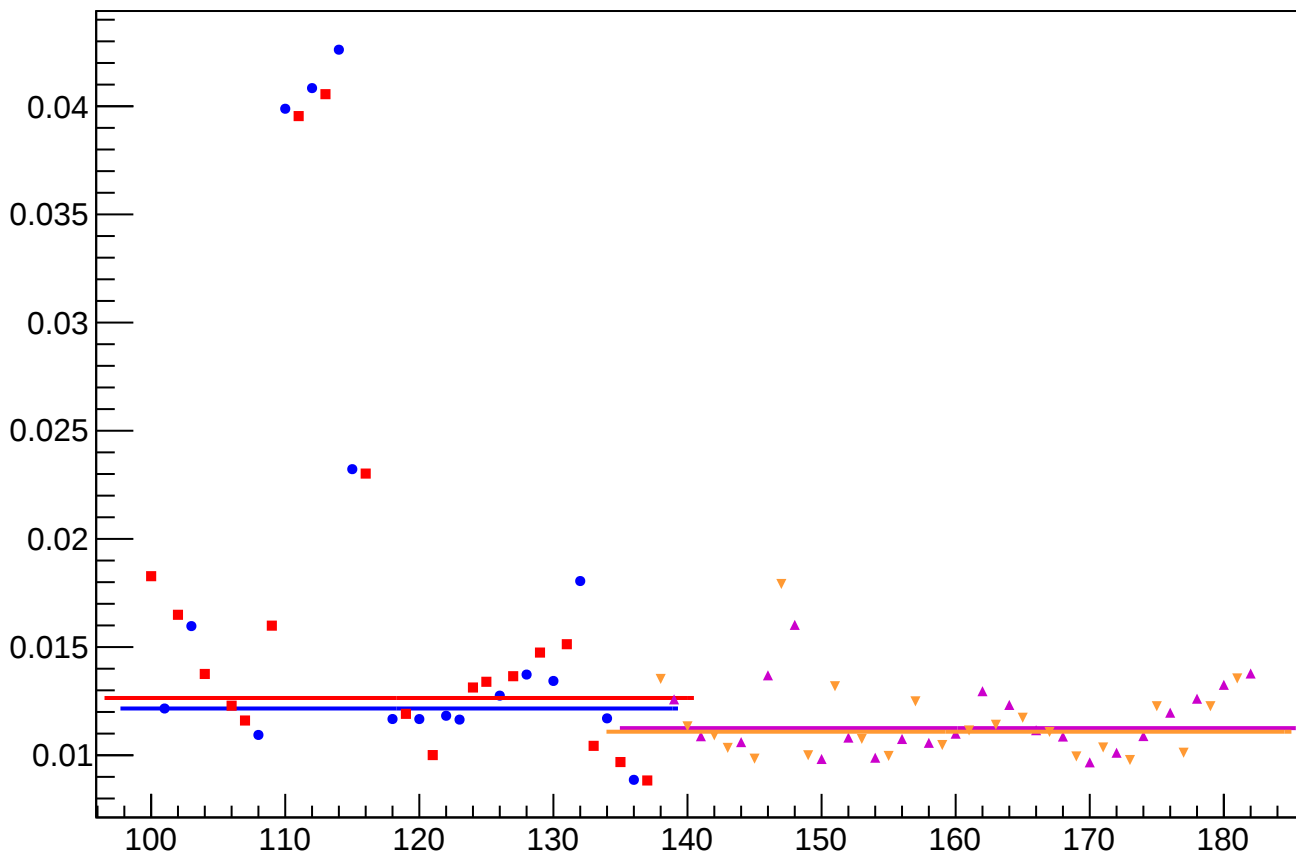
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10602472583.7/35

In: 0.388 $\pm$ 0.000 χ^2 /NDF:6590829678.1/38

Out: 0.393 $\pm$ 0.000 χ^2 /NDF:7643064007.0/41

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 14236502164.5/80

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1304124.1/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 548914.3/22

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1268972.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF: 494683.7/21

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1047185.4/44

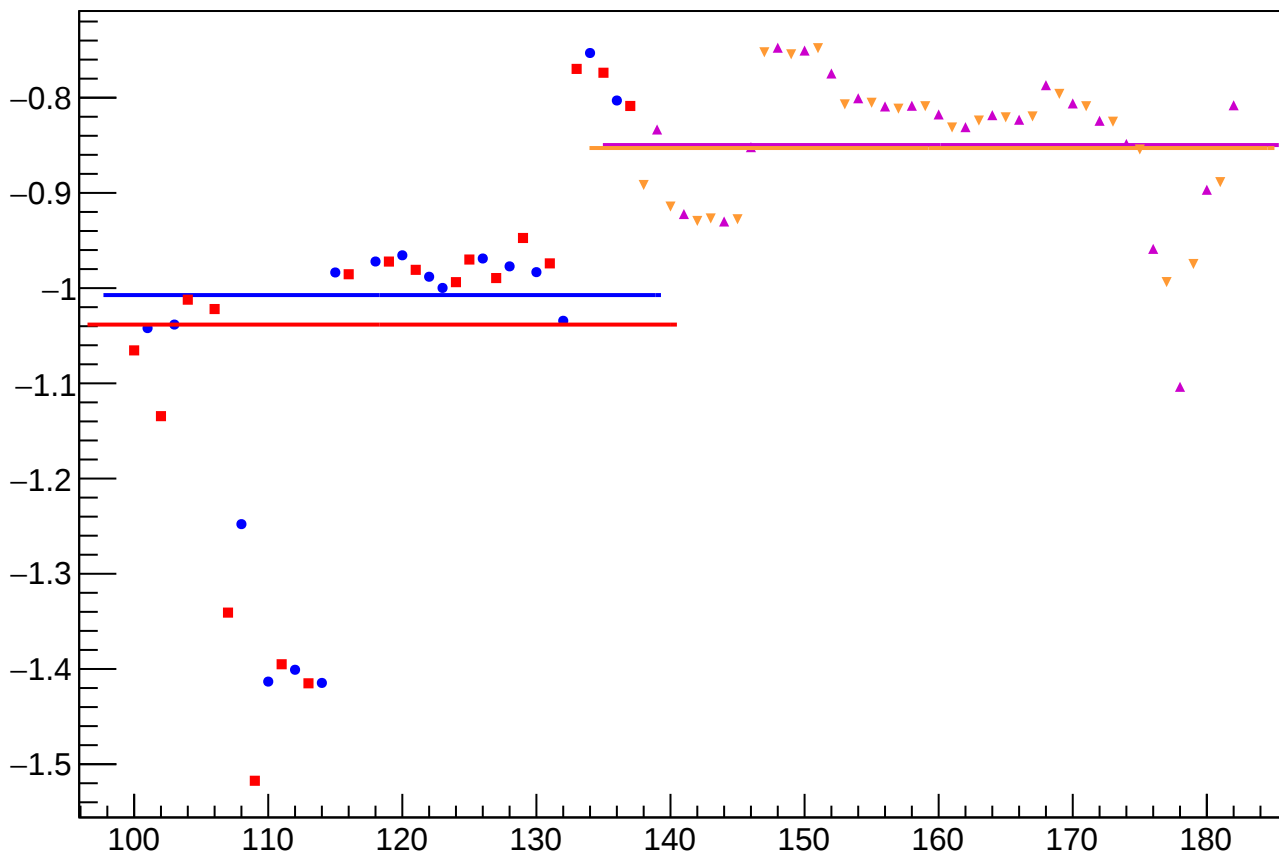
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2581927.2/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 1847316.8/38

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 1958043.7/41

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3805621.0/80

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.007 ± 0.000 χ^2/NDF : 393589325.7/16

Left Out: -0.853 ± 0.000 χ^2/NDF : 183360296.2/22

Right Out: -1.038 ± 0.000 χ^2/NDF : 535629570.0/18

Left In: -0.850 ± 0.000 χ^2/NDF : 255599856.0/21

Left: -0.851 ± 0.000 χ^2/NDF : 439150100.1/44

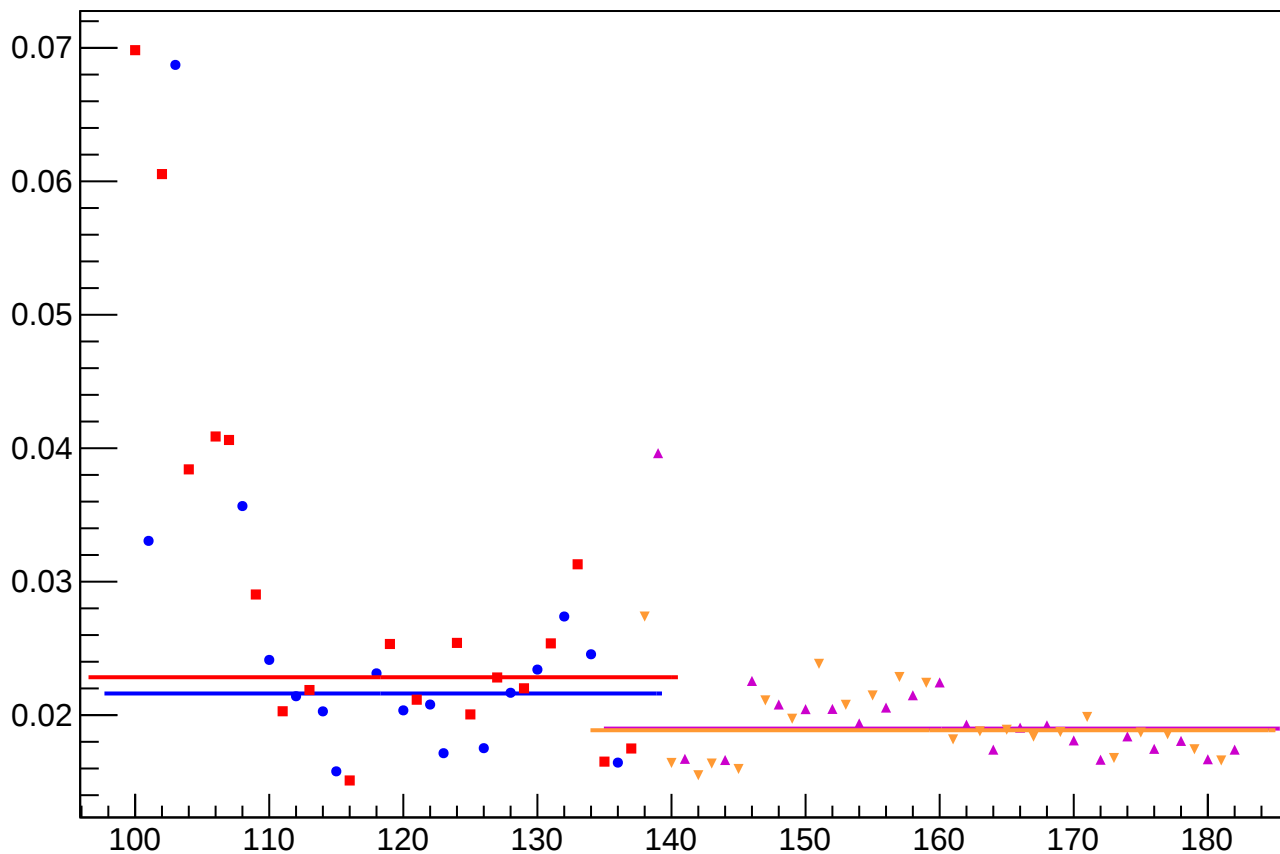
Right: -1.022 ± 0.000 χ^2/NDF : 934274584.5/35

In: -0.885 ± 0.000 χ^2/NDF : 859363243.9/38

Out: -0.891 ± 0.000 χ^2/NDF : 996933837.4/41

All: -0.888 ± 0.000 χ^2/NDF : 1857259088.6/8

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 : 464168.6/22

Right Out: 0.023+/-0.000 χ^2/NDF : 1150914.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 613050.9/21

Left: 0.019+/-0.000 χ^2/NDF : 1077806.1/44

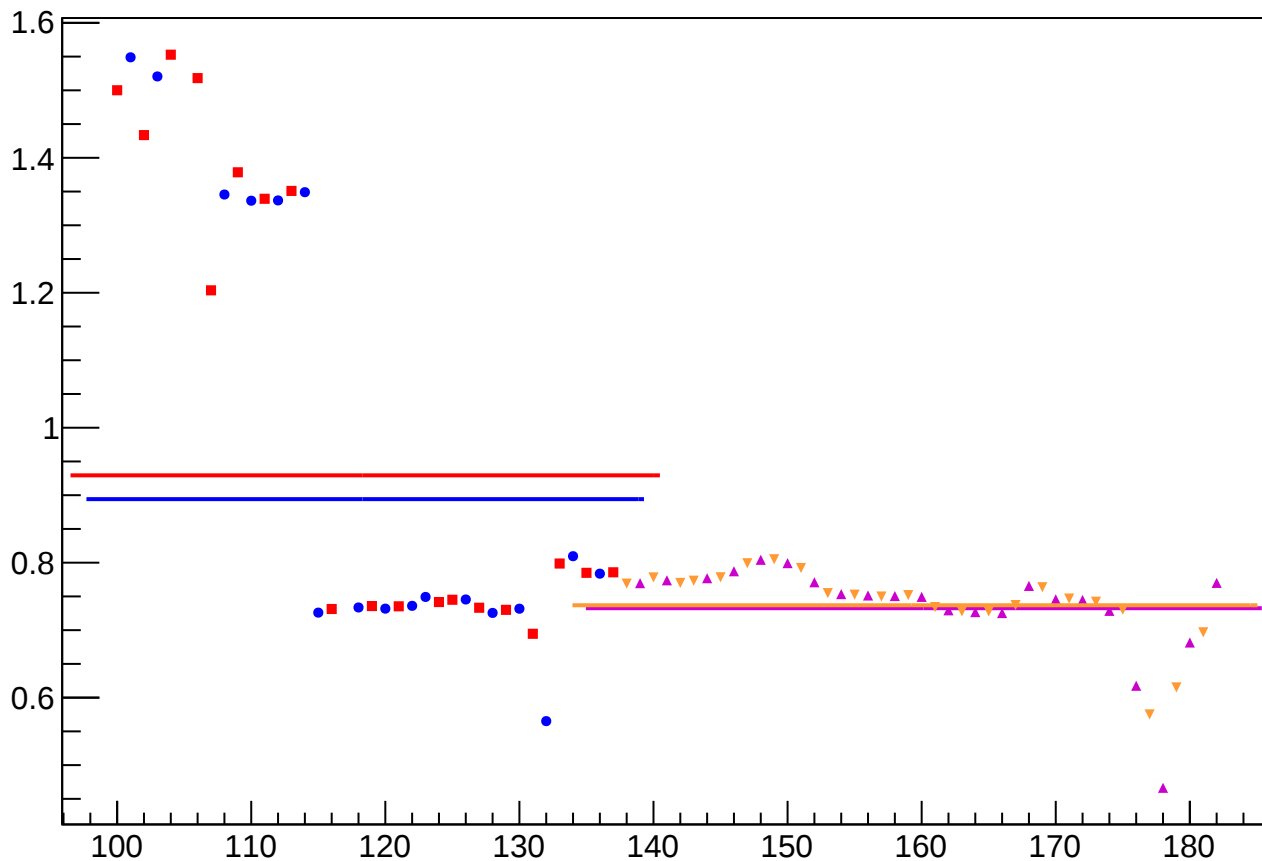
Right: 0.022+/-0.000 χ^2/NDF : 2151098.1/35

In: 0.020+/-0.000 χ^2/NDF : 1714844.8/38

Out: 0.020+/-0.000 χ^2/NDF : 1870107.8/41

All: 0.020+/-0.000 χ^2/NDF : 3585537.9/80

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.894+/-0.000 χ^2/NDF : 2399022212.9/16

Left Out: 0.737+/-0.000 χ^2/NDF : 326010734.7/22

Right Out: 0.929+/-0.000 χ^2/NDF : 2422023767.8/18

Left In: 0.733+/-0.000 χ^2/NDF : 566718435.2/21

Left: 0.735+/-0.000 χ^2/NDF : 893796680.4/44

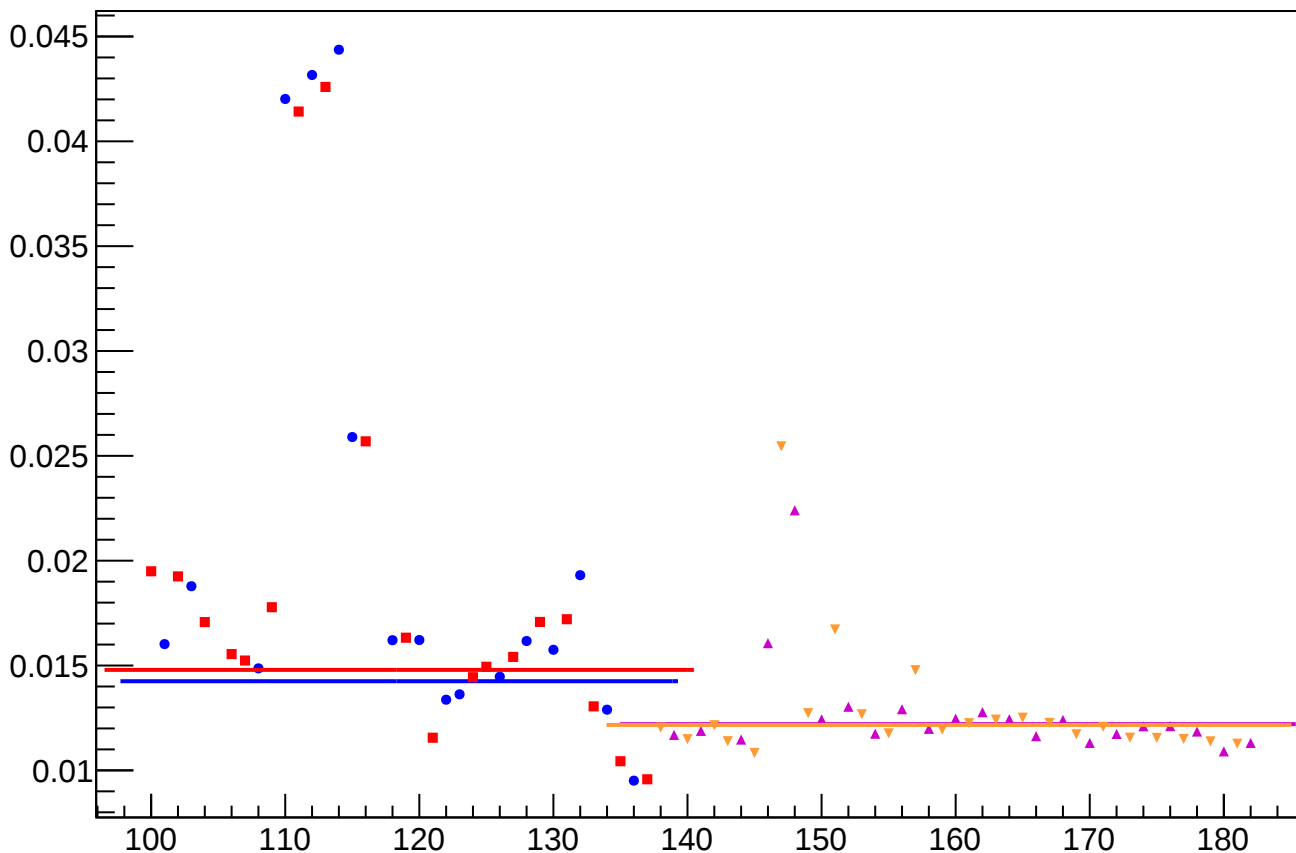
Right: 0.912+/-0.000 χ^2/NDF : 4838135937.4/35

In: 0.765+/-0.000 χ^2/NDF : 3544221565.4/38

Out: 0.775+/-0.000 χ^2/NDF : 3561220674.4/41

All: 0.770+/-0.000 χ^2/NDF : 7111749802.3/80

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 : 634242.6/22

Right Out: 0.015+/-0.000 χ^2/NDF : 1271820.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 479333.1/21

Left: 0.012+/-0.000 χ^2/NDF : 1113742.8/44

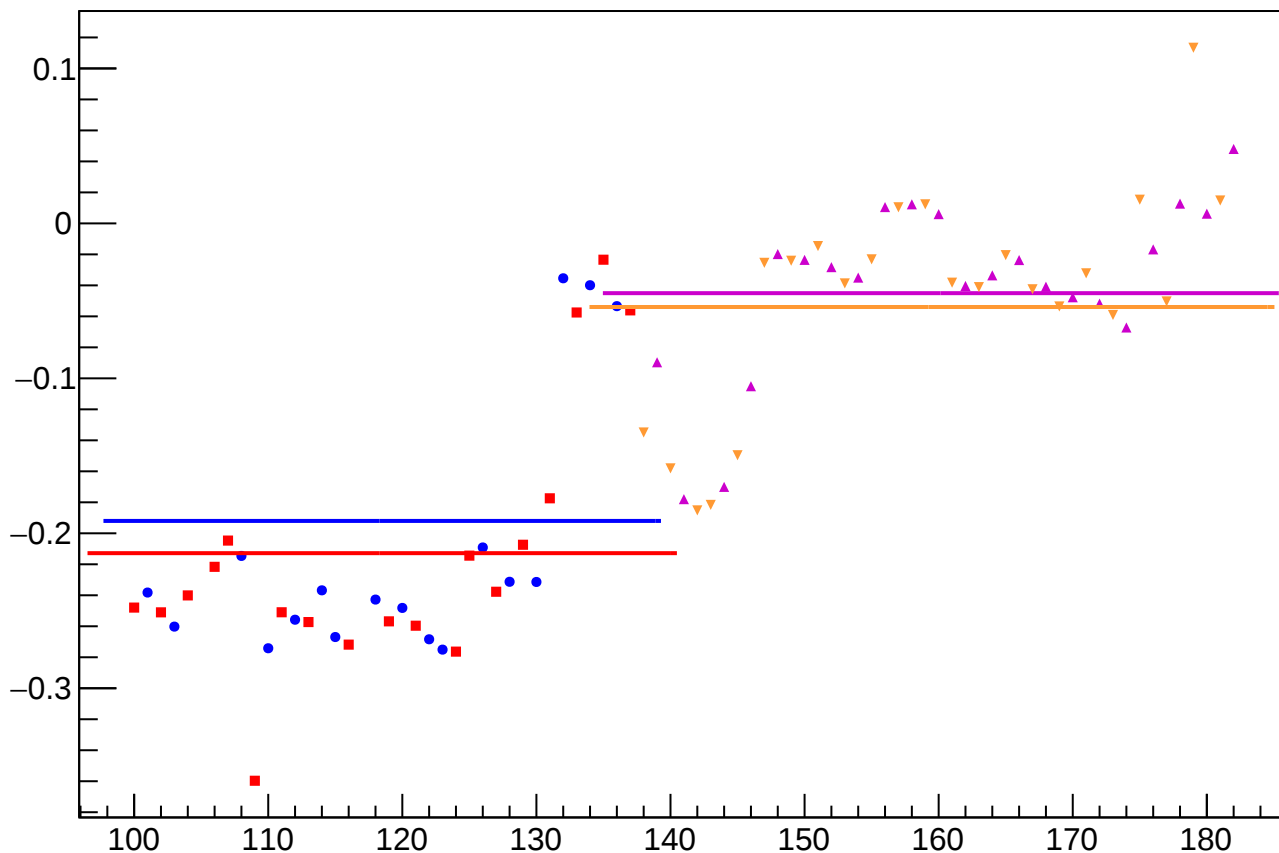
Right: 0.015+/-0.000 χ^2/NDF : 2689819.1/35

In: 0.013+/-0.000 χ^2/NDF : 2074686.3/38

Out: 0.013+/-0.000 χ^2/NDF : 2208550.5/41

All: 0.013+/-0.000 χ^2/NDF : 4283793.5/80

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192 ± 0.000 $\chi^2/\text{NDF}: 106200458.9/16$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 154102130.1/22$

Right Out: -0.213 ± 0.000 $\chi^2/\text{NDF}: 110522593.6/18$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 123890343.8/21$

Left: -0.050 ± 0.000 $\chi^2/\text{NDF}: 279492189.9/44$

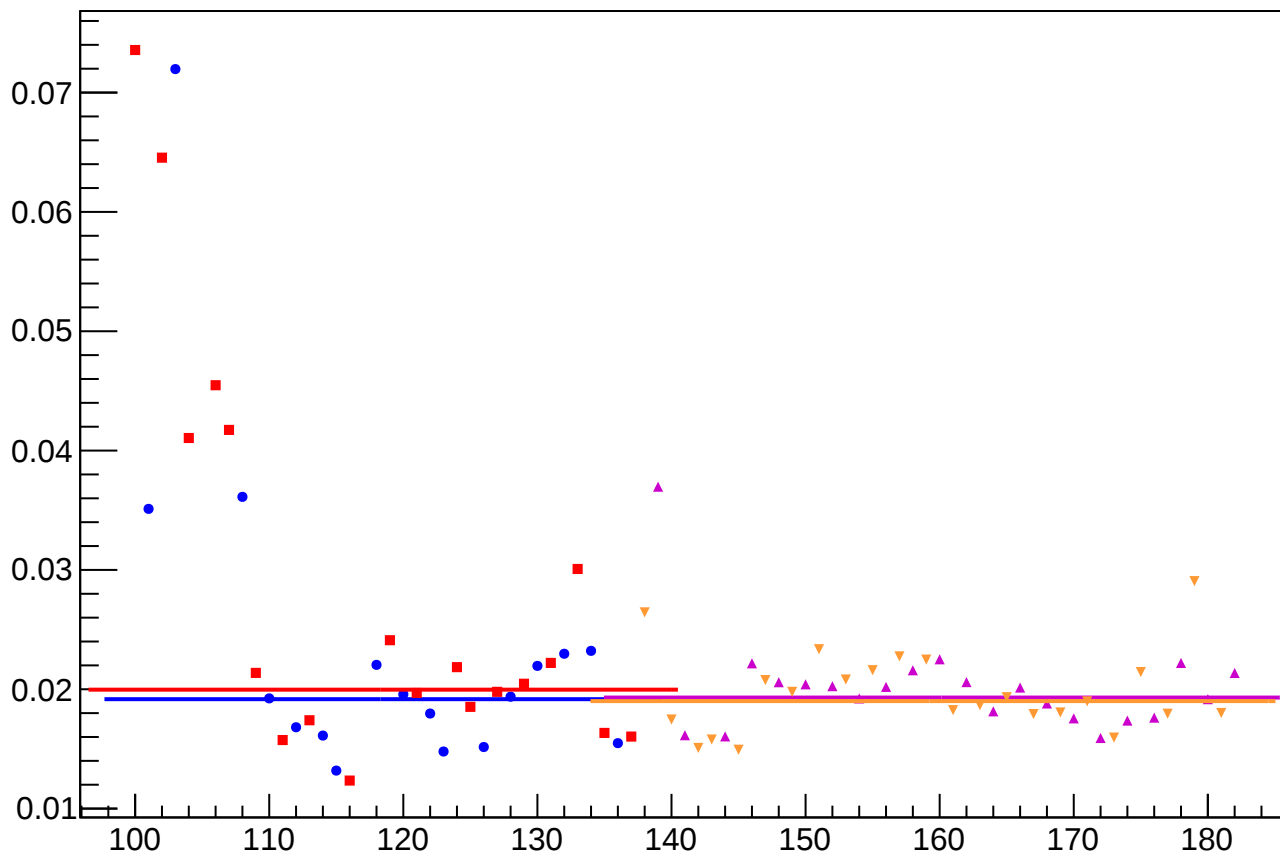
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 219599085.5/35$

In: -0.085 ± 0.000 $\chi^2/\text{NDF}: 445071379.9/38$

Out: -0.094 ± 0.000 $\chi^2/\text{NDF}: 509096500.3/41$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 956460751.9/80$

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 : 613996.5/22

Right Out: 0.020+/-0.000 χ^2/NDF : 1445067.6/18

Left In: 0.019+/-0.000 χ^2/NDF : 616843.2/21

Left: 0.019+/-0.000 χ^2/NDF : 1234156.5/44

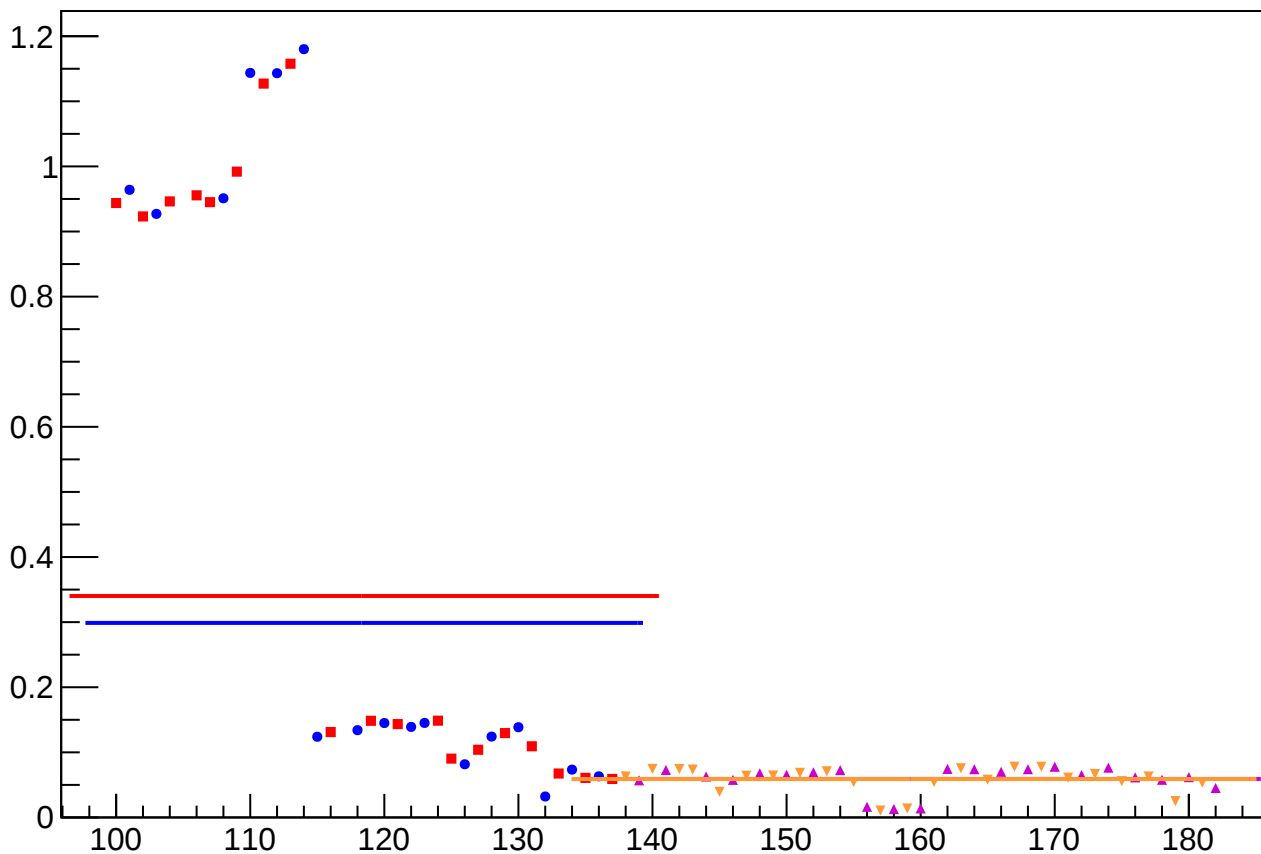
Right: 0.020+/-0.000 χ^2/NDF : 2636287.3/35

In: 0.019+/-0.000 χ^2/NDF : 1799963.8/38

Out: 0.019+/-0.000 χ^2/NDF : 2076896.6/41

All: 0.019+/-0.000 χ^2/NDF : 3876876.2/80

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: 46162977.8/22

Right Out: 0.340 $\pm$ 0.000 χ^2 /NDF: 5473541358.4/18

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58008149.2/21

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 104172626.1/44

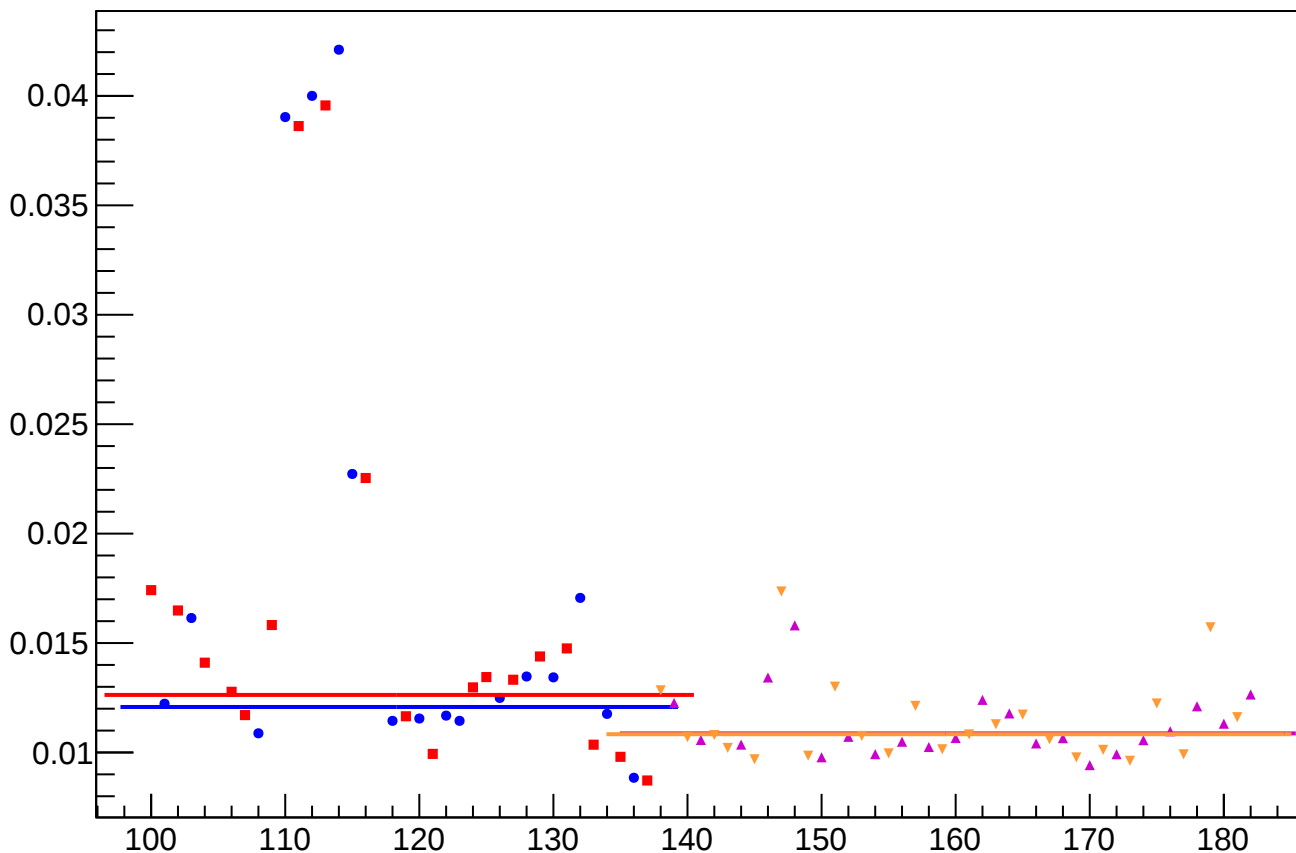
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 10685960138.1/35

In: 0.112 $\pm$ 0.000 χ^2 /NDF: 6970664810.1/38

Out: 0.118 $\pm$ 0.000 χ^2 /NDF: 7815663494.1/41

All: 0.115 $\pm$ 0.000 χ^2 /NDF: 14789530485.5/80

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1276713.5/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:542119.7/22

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1235880.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:394333.7/21

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 936638.2/44

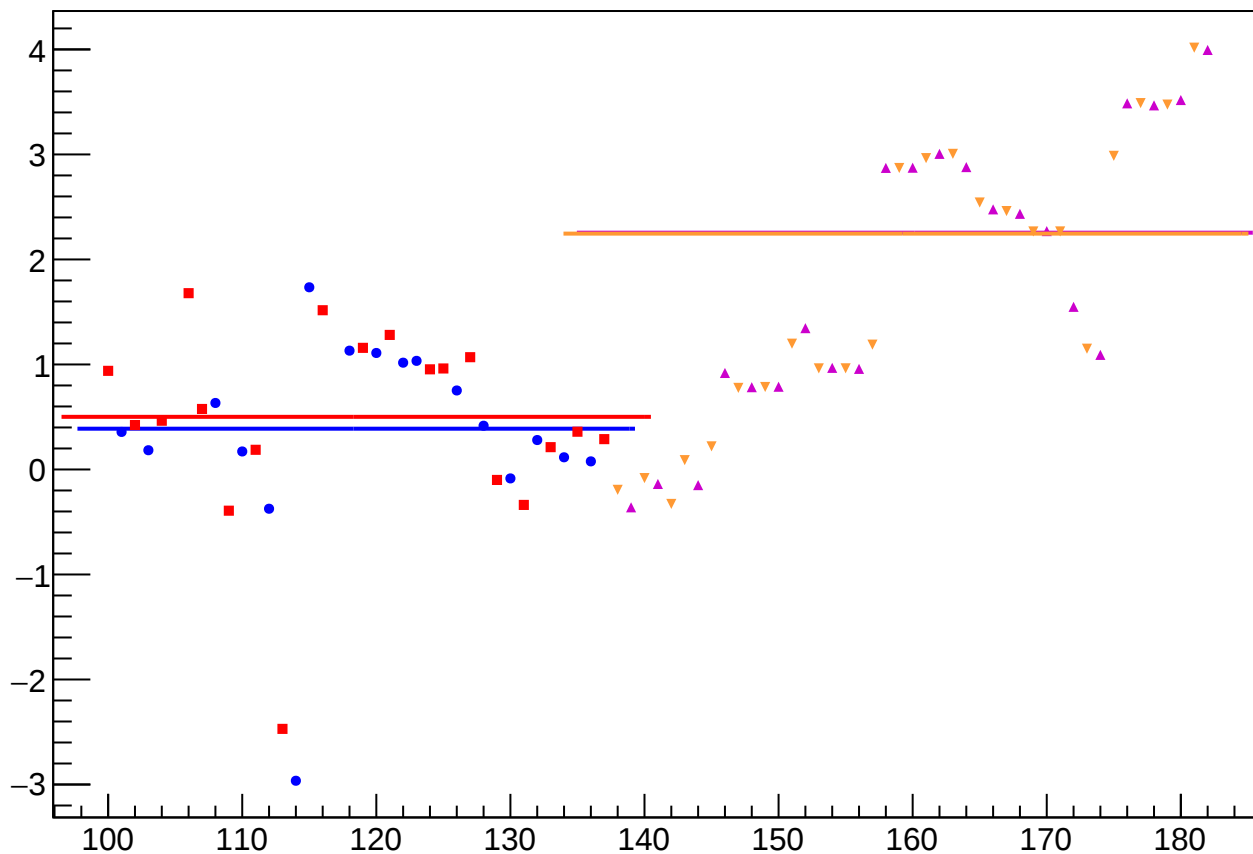
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2524057.1/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1759019.4/38

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1965215.8/41

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3725204.5/80

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.388+/-0.000

χ^2/NDF : 245257258.4/16

Left: 2.251+/-0.000

χ^2/NDF : 111792635111.1/44

Left Out: 2.246+/-0.000

χ^2/NDF : 53977677178.2/22

Right: 0.440+/-0.000

χ^2/NDF : 1238568445.6/35

Right Out: 0.501+/-0.000

χ^2/NDF : 983034937.0/18

In: 2.193+/-0.000

χ^2/NDF : 63944756370.9/38

Out: 2.193+/-0.000

χ^2/NDF : 59360509939.3/41

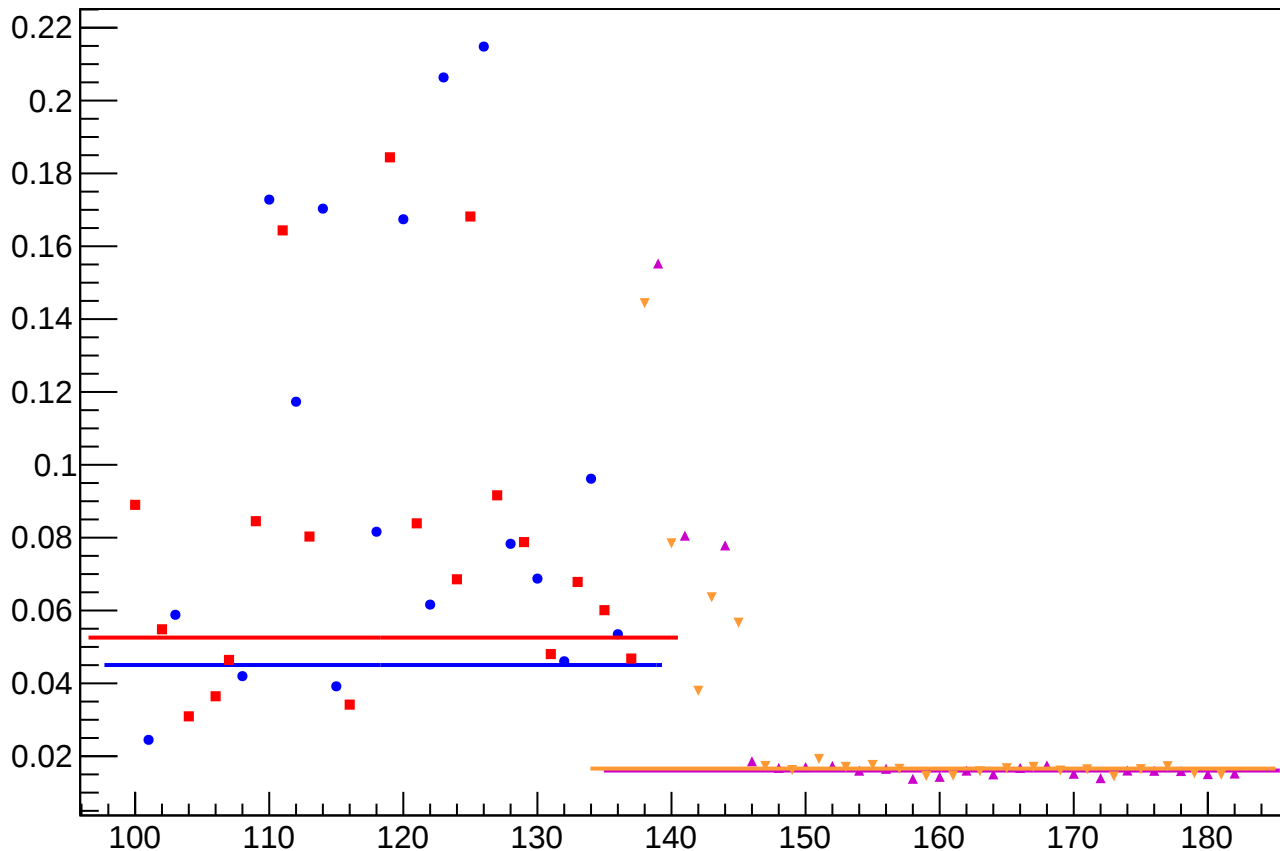
Left In: 2.255+/-0.000

χ^2/NDF : 57813036312.6/21

All: 2.193+/-0.000

χ^2/NDF : 123305271912.6

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 :2809535.6/22

Right Out: 0.053+/-0.000 χ^2/NDF : 2177690.7/18

Left In: 0.016+/-0.000 χ^2/NDF :2392711.6/21

Left: 0.016+/-0.000 χ^2/NDF : 5216564.5/44

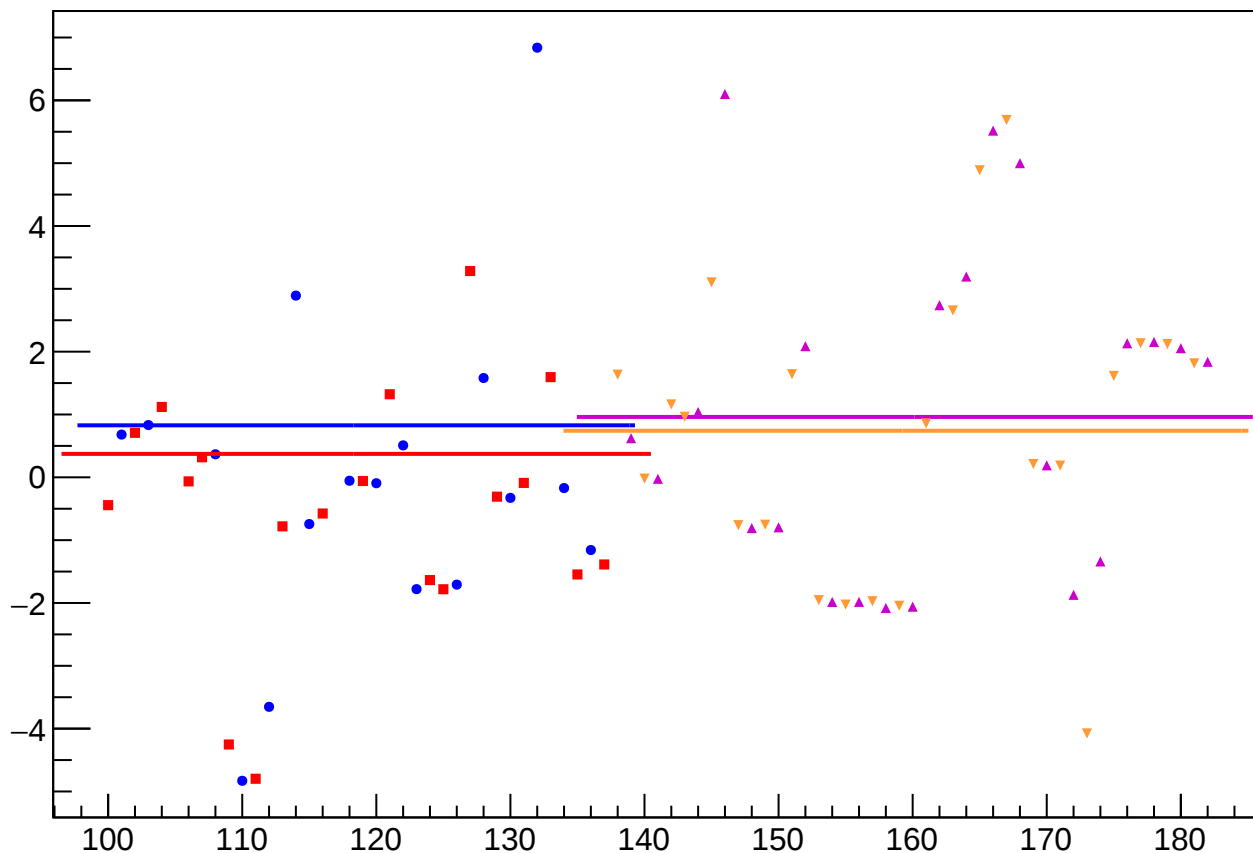
Right: 0.049+/-0.000 χ^2/NDF : 5099571.7/35

In: 0.017+/-0.000 χ^2/NDF :8059297.4/38

Out: 0.018+/-0.000 χ^2/NDF :8725381.8/41

All: 0.017+/-0.000 χ^2/NDF : 16807073.3/80

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.828 ± 0.000 $\chi^2/\text{NDF}: 10934615588.5/16$

Left Out: 0.741 ± 0.000 $\chi^2/\text{NDF}: 502474730096.9/22$

Right Out: 0.373 ± 0.000 $\chi^2/\text{NDF}: 4968052358.8/18$

Left In: 0.961 ± 0.000 $\chi^2/\text{NDF}: 567136733677.0/21$

Left: 0.854 ± 0.000 $\chi^2/\text{NDF}: 1071571931494.1/44$

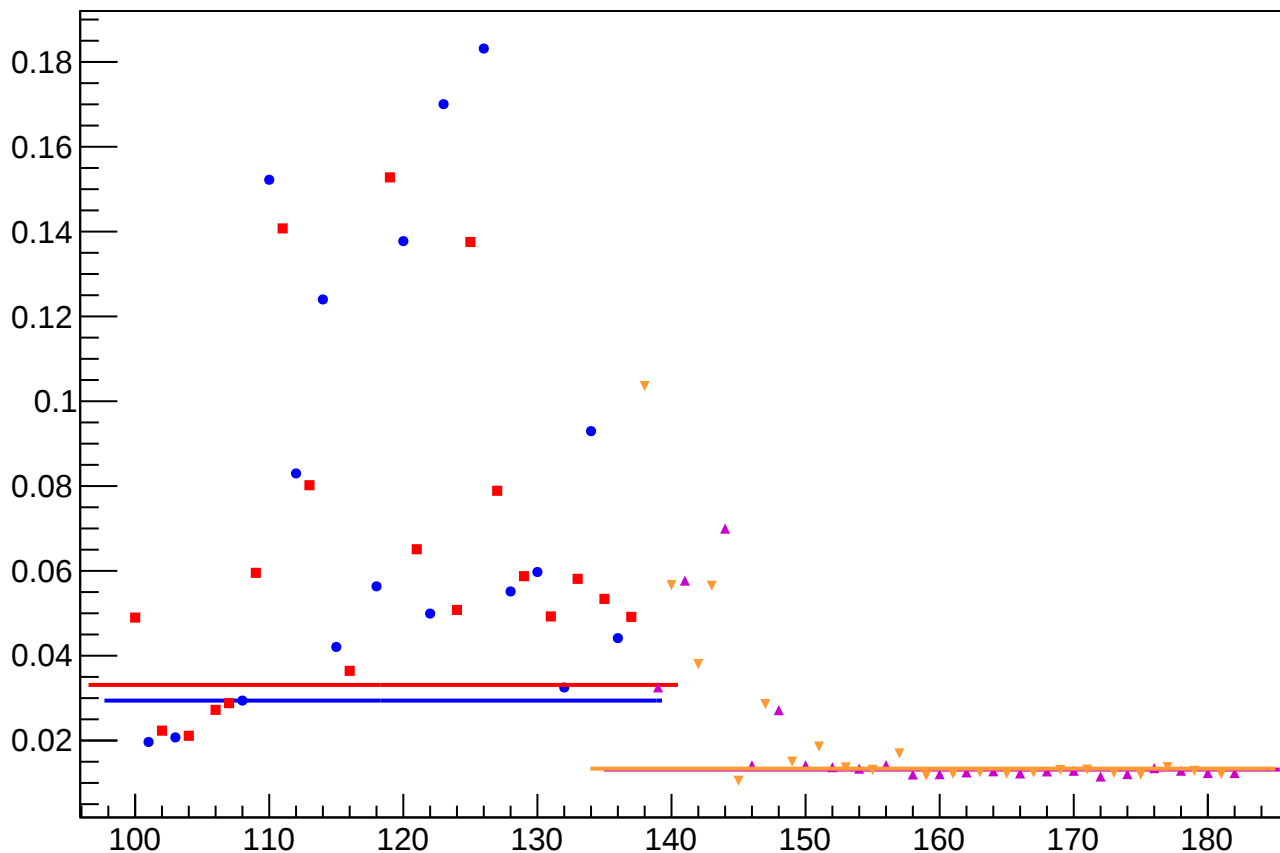
Right: 0.614 ± 0.000 $\chi^2/\text{NDF}: 16284898380.7/35$

In: 0.955 ± 0.000 $\chi^2/\text{NDF}: 578138246850.9/38$

Out: 0.726 ± 0.000 $\chi^2/\text{NDF}: 507896865384.7/41$

All: 0.843 ± 0.000 $\chi^2/\text{NDF}: 1088266655435.$

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 3034312.5/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2914495.4/22

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 3078516.1/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1945113.1/21

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 4863600.1/44

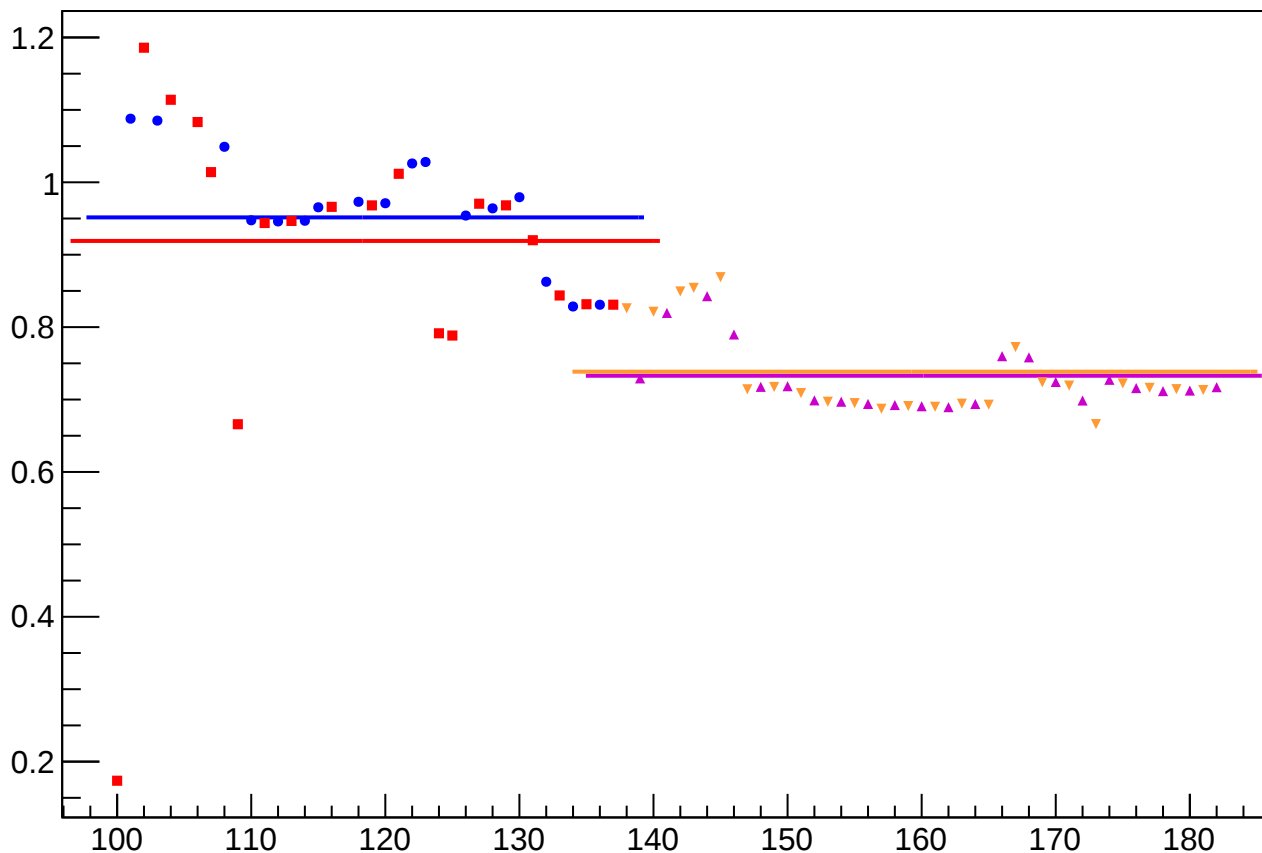
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6163407.5/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:6966715.8/38

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:8603111.9/41

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 15578611.2/80

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.952+/-0.000 χ^2/NDF : 173959453.0/16

Left Out: 0.738+/-0.000 χ^2/NDF :296621620.1/22

Right Out: 0.919+/-0.000 χ^2/NDF : 374715264.1/18

Left In: 0.733+/-0.000 χ^2/NDF :169641654.4/21

Left: 0.736+/-0.000 χ^2/NDF : 467528408.9/44

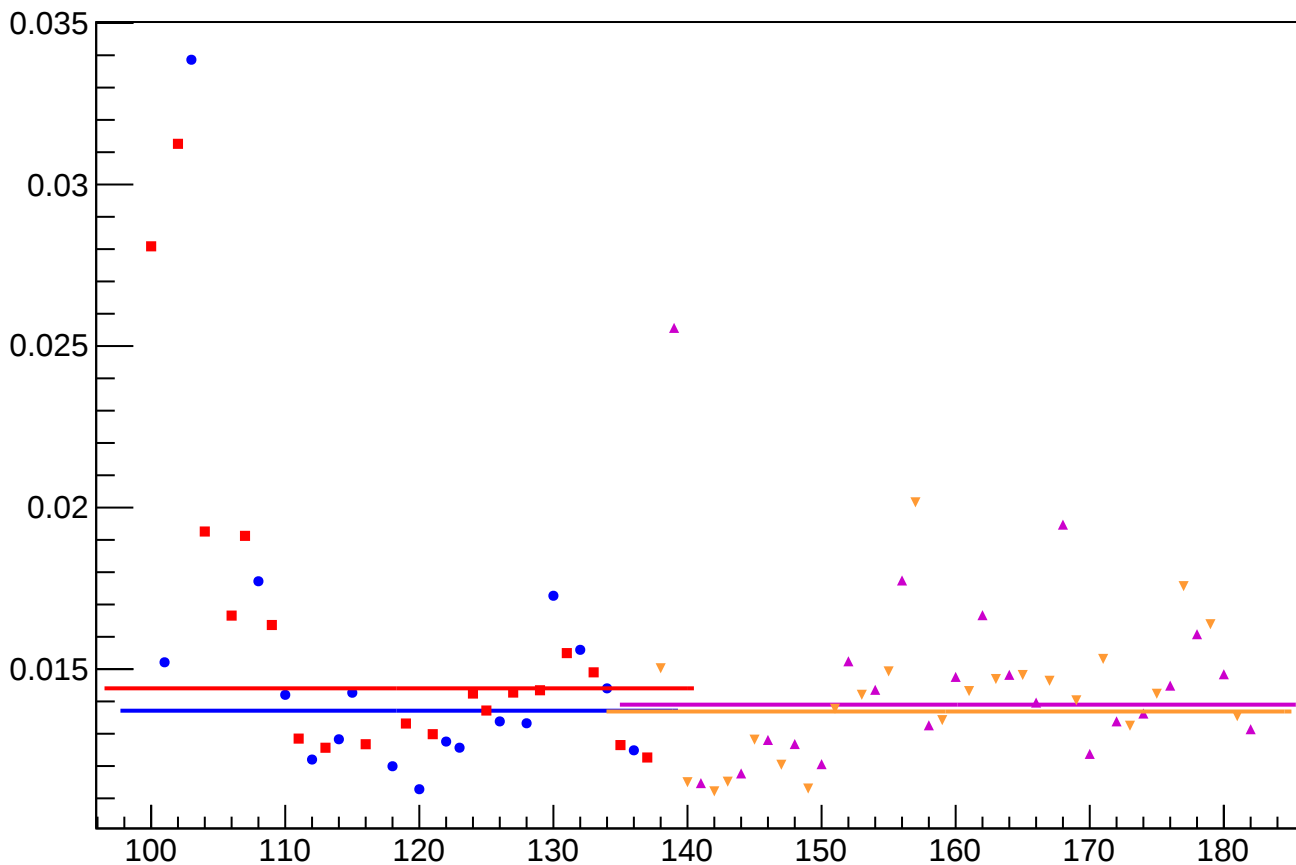
Right: 0.936+/-0.000 χ^2/NDF : 564529204.5/35

In: 0.794+/-0.000 χ^2/NDF :1402336210.8/38

Out: 0.786+/-0.000 χ^2/NDF :1372055486.7/41

All: 0.790+/-0.000 χ^2/NDF : 2778102613.1/80

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 546221.8/16

Left Out: 0.014 $\pm$ 0.000 χ^2/NDF : 511351.2/22

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 502019.0/18

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 767631.0/21

Left: 0.014 $\pm$ 0.000 χ^2/NDF : 1282558.5/44

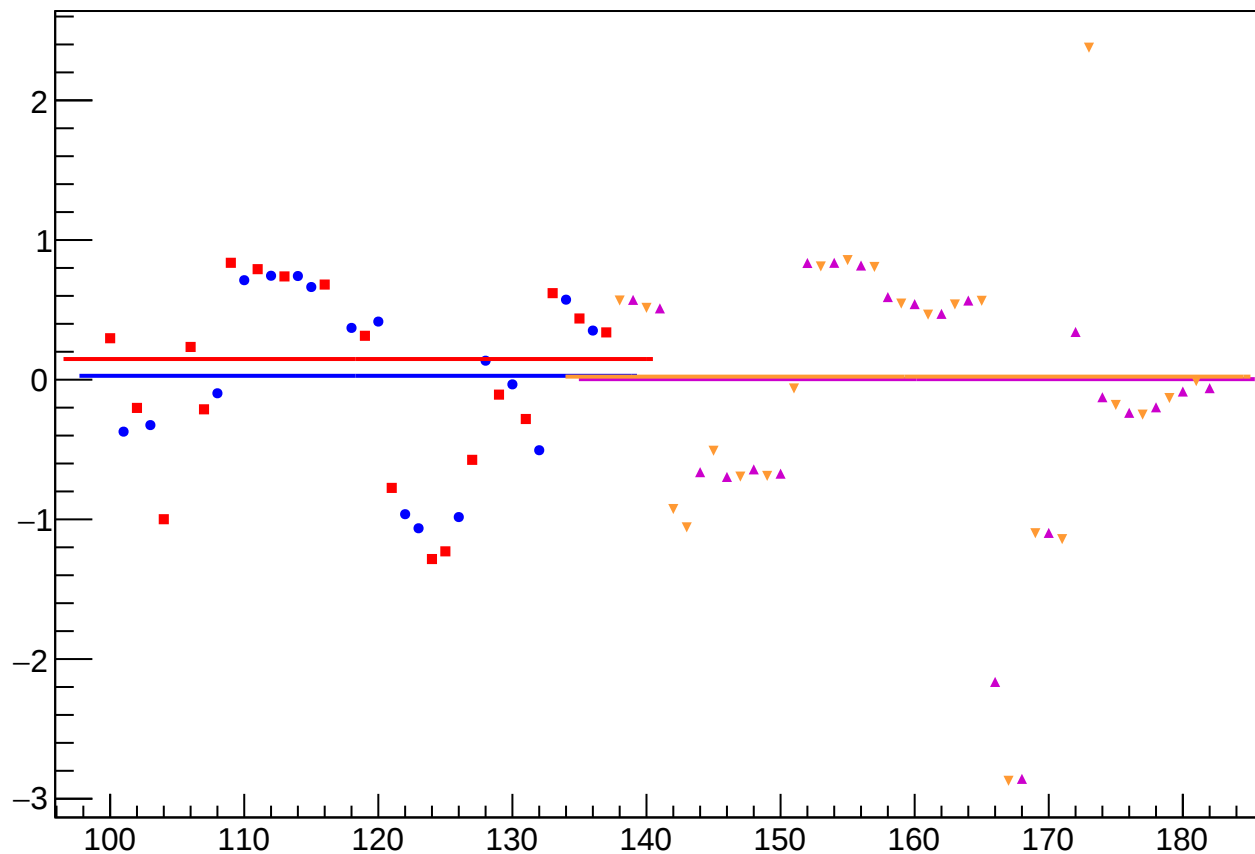
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 1062609.3/35

In: 0.014 $\pm$ 0.000 χ^2/NDF : 1315401.4/38

Out: 0.014 $\pm$ 0.000 χ^2/NDF : 1035445.7/41

All: 0.014 $\pm$ 0.000 χ^2/NDF : 2350950.4/80

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 6330660019.5/16

Left Out: 0.022 $\pm$ 0.000 χ^2 /NDF: 95595145572.1/22

Right Out: 0.148 $\pm$ 0.000 χ^2 /NDF: 12786884425.3/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF: 78822272619.8/21

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 174434187186.2/44

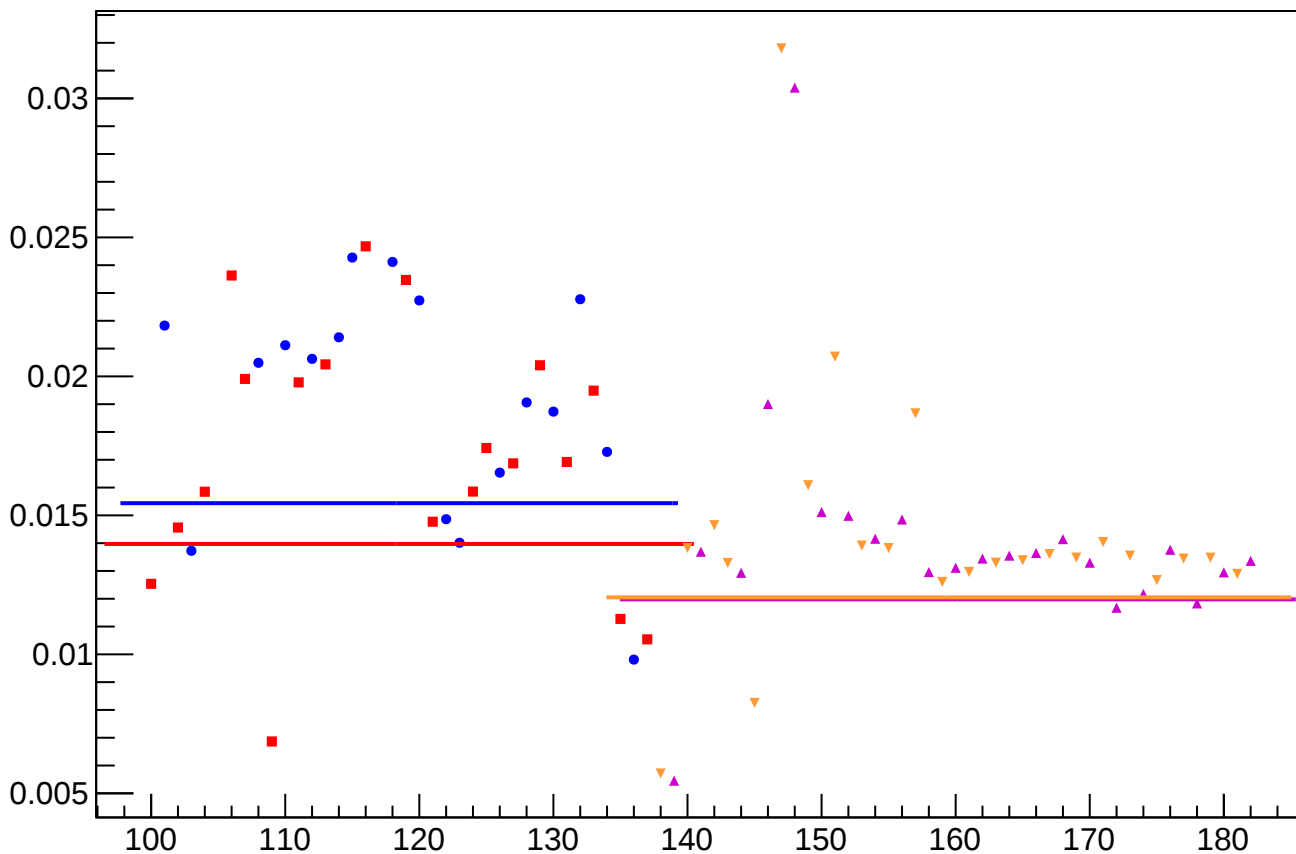
Right: 0.094 $\pm$ 0.000 χ^2 /NDF: 19304525914.6/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF: 85163895549.3/38

Out: 0.049 $\pm$ 0.000 χ^2 /NDF: 108738230450.9/41

All: 0.029 $\pm$ 0.000 χ^2 /NDF: 194010068286.5

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1160014.9/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3091746.8/22

Right Out: 0.014+/-0.000 χ^2/NDF : 1556431.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 2997197.8/21

Left: 0.012+/-0.000 χ^2/NDF : 6089507.1/44

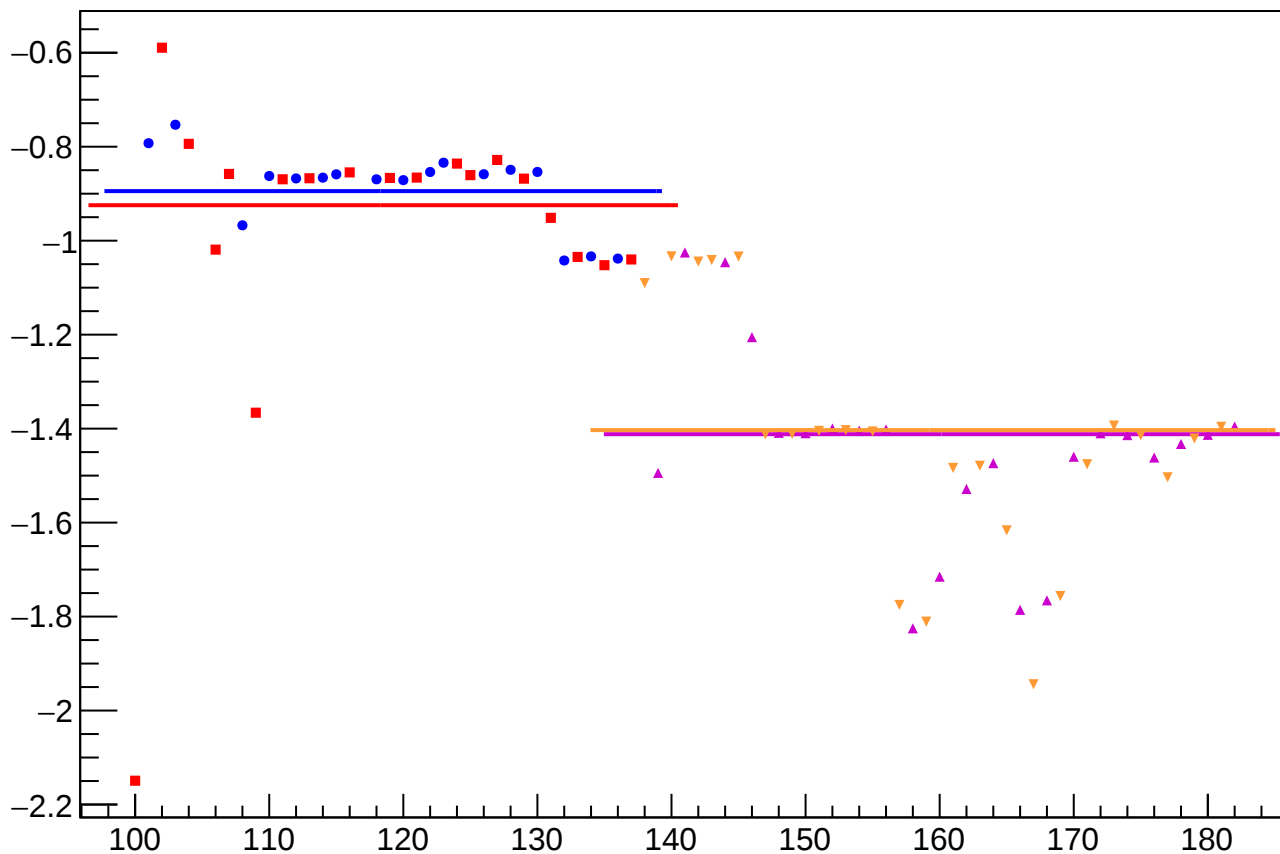
Right: 0.015+/-0.000 χ^2/NDF : 2772133.5/35

In: 0.013+/-0.000 χ^2/NDF : 4617998.8/38

Out: 0.012+/-0.000 χ^2/NDF : 4813702.8/41

All: 0.013+/-0.000 χ^2/NDF : 9434861.0/80

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.895 ± 0.000 $\chi^2/\text{NDF}: 37736129.8/16$

Left Out: -1.403 ± 0.000 $\chi^2/\text{NDF}: 721740445.8/22$

Right Out: -0.925 ± 0.000 $\chi^2/\text{NDF}: 128456555.8/18$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512446779.5/21$

Left: -1.407 ± 0.000 $\chi^2/\text{NDF}: 1234643104.7/44$

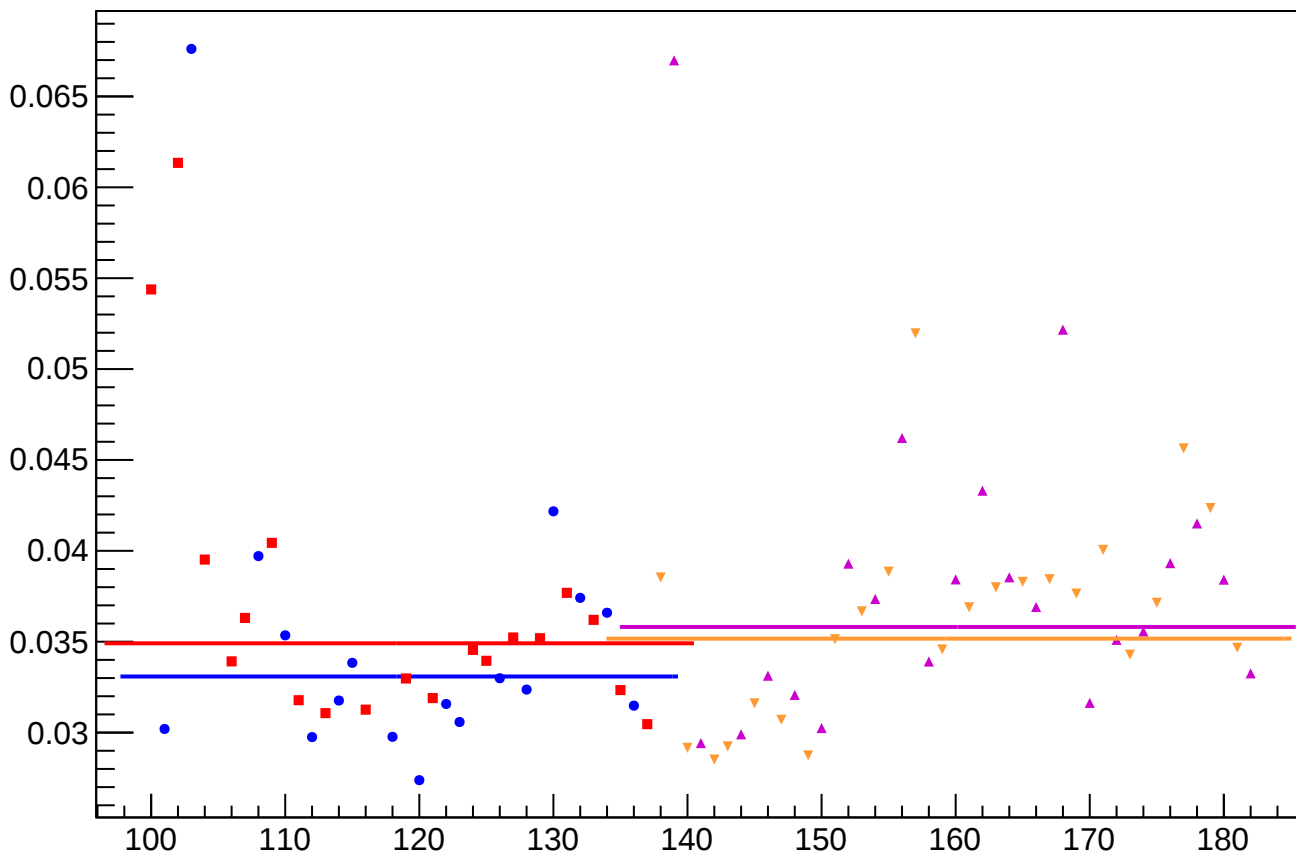
Right: -0.909 ± 0.000 $\chi^2/\text{NDF}: 168526057.0/35$

In: -1.250 ± 0.000 $\chi^2/\text{NDF}: 1532372874.5/38$

Out: -1.263 ± 0.000 $\chi^2/\text{NDF}: 1666105050.5/41$

All: -1.257 ± 0.000 $\chi^2/\text{NDF}: 3200059576.8/8$

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 :576875.2/22

Right Out: 0.035+/-0.000 χ^2/NDF : 274757.5/18

Left In: 0.036+/-0.000 χ^2/NDF :864044.7/21

Left: 0.035+/-0.000 χ^2/NDF : 1445843.5/44

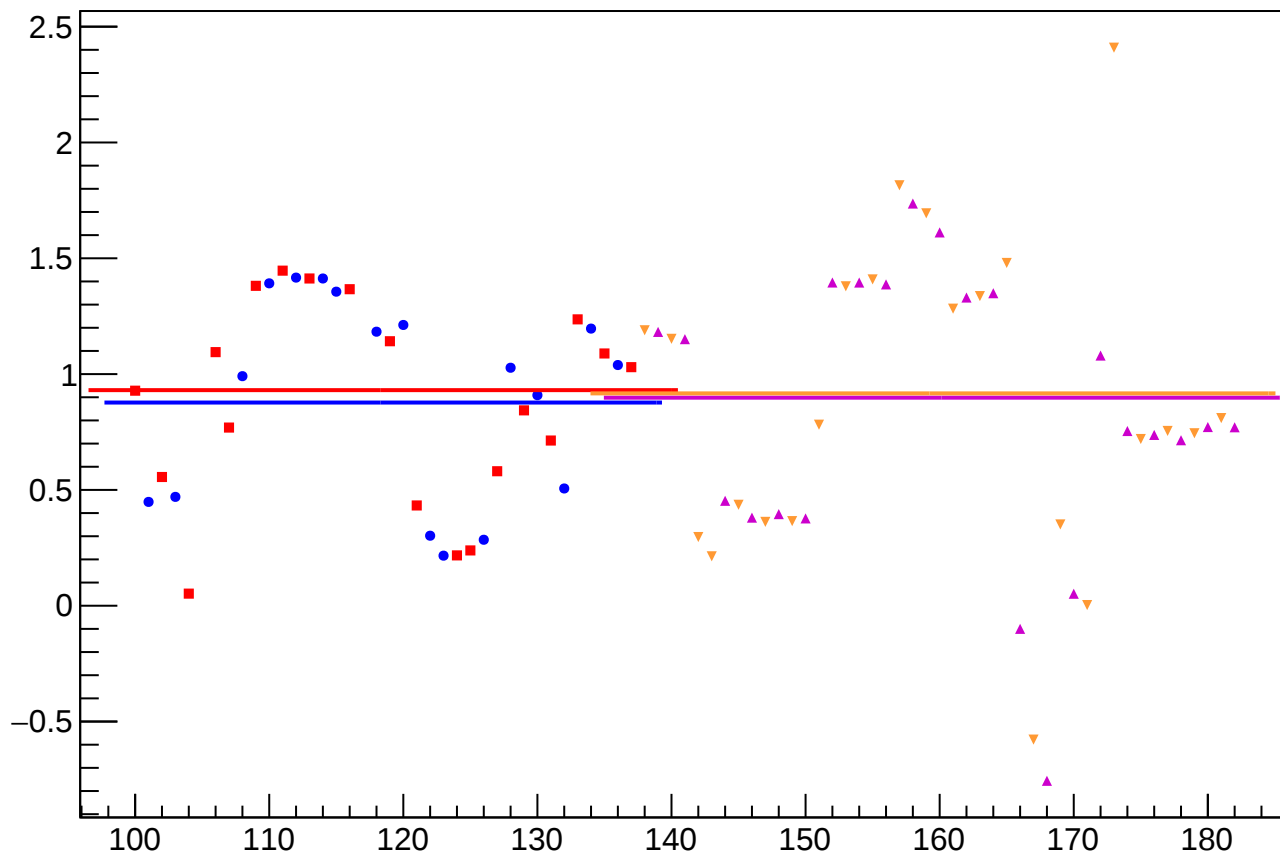
Right: 0.034+/-0.000 χ^2/NDF : 700763.4/35

In: 0.035+/-0.000 χ^2/NDF :1327268.2/38

Out: 0.035+/-0.000 χ^2/NDF :852102.7/41

All: 0.035+/-0.000 χ^2/NDF : 2179693.2/80

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.877+/-0.000

χ^2/NDF : 6492530367.5/16

Left: 0.908+/-0.000 χ^2/NDF : 149948947233.9/44

Right: 0.905+/-0.000 χ^2/NDF : 16534143607.8/35

Left Out: 0.917+/-0.000

χ^2/NDF : 83369161803.1/22

In: 0.894+/-0.000 χ^2/NDF : 73055928734.8/38

Right Out: 0.931+/-0.000

χ^2/NDF : 9963132374.2/18

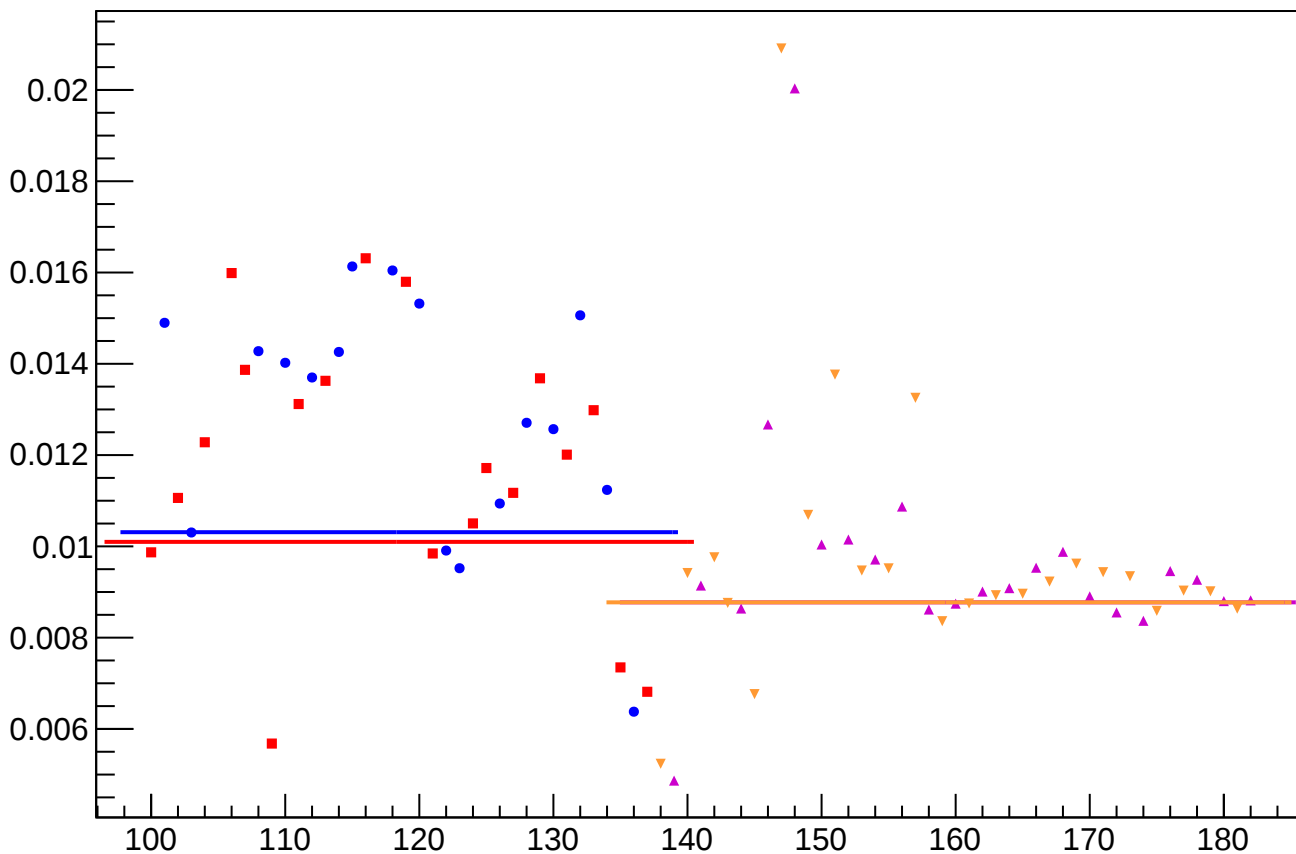
Out: 0.920+/-0.000 χ^2/NDF : 93341077952.3/41

Left In: 0.898+/-0.000

χ^2/NDF : 66544949428.8/21

All: 0.907+/-0.000 χ^2/NDF : 166483637432.5

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 : 1696989.2/22

Right Out: 0.010+/-0.000 χ^2/NDF : 1175272.9/18

Left In: 0.009+/-0.000 χ^2/NDF : 1607930.5/21

Left: 0.009+/-0.000 χ^2/NDF : 3304919.7/44

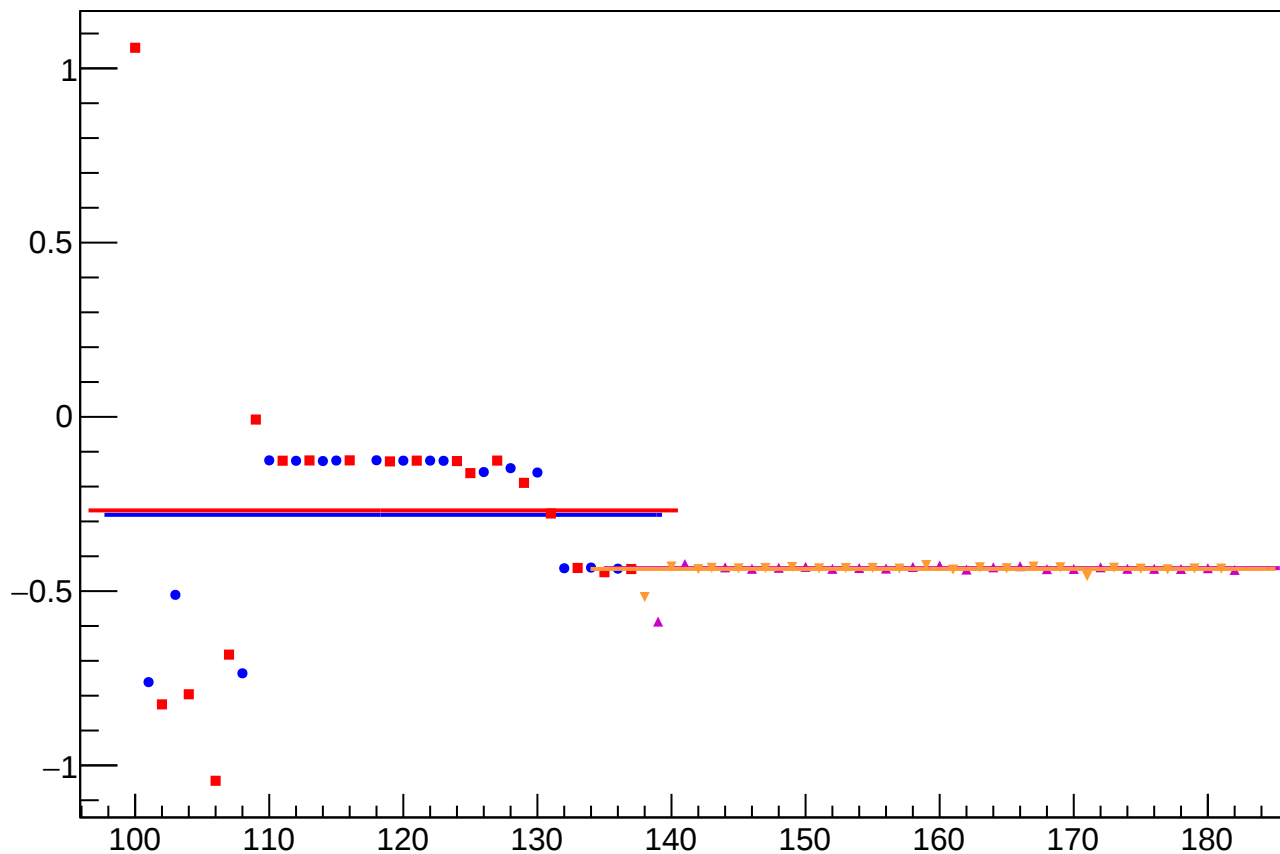
Right: 0.010+/-0.000 χ^2/NDF : 2407045.8/35

In: 0.009+/-0.000 χ^2/NDF : 3034083.9/38

Out: 0.009+/-0.000 χ^2/NDF : 3029284.3/41

All: 0.009+/-0.000 χ^2/NDF : 6063617.9/80

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.281+/-0.000 χ^2/NDF : 905834039.3/16

Left Out: -0.436+/-0.000 χ^2/NDF : 28773698.0/22

Right Out: -0.268+/-0.000 χ^2/NDF : 967576606.4/18

Left In: -0.434+/-0.000 χ^2/NDF : 23981032.2/21

Left: -0.435+/-0.000 χ^2/NDF : 53127195.9/44

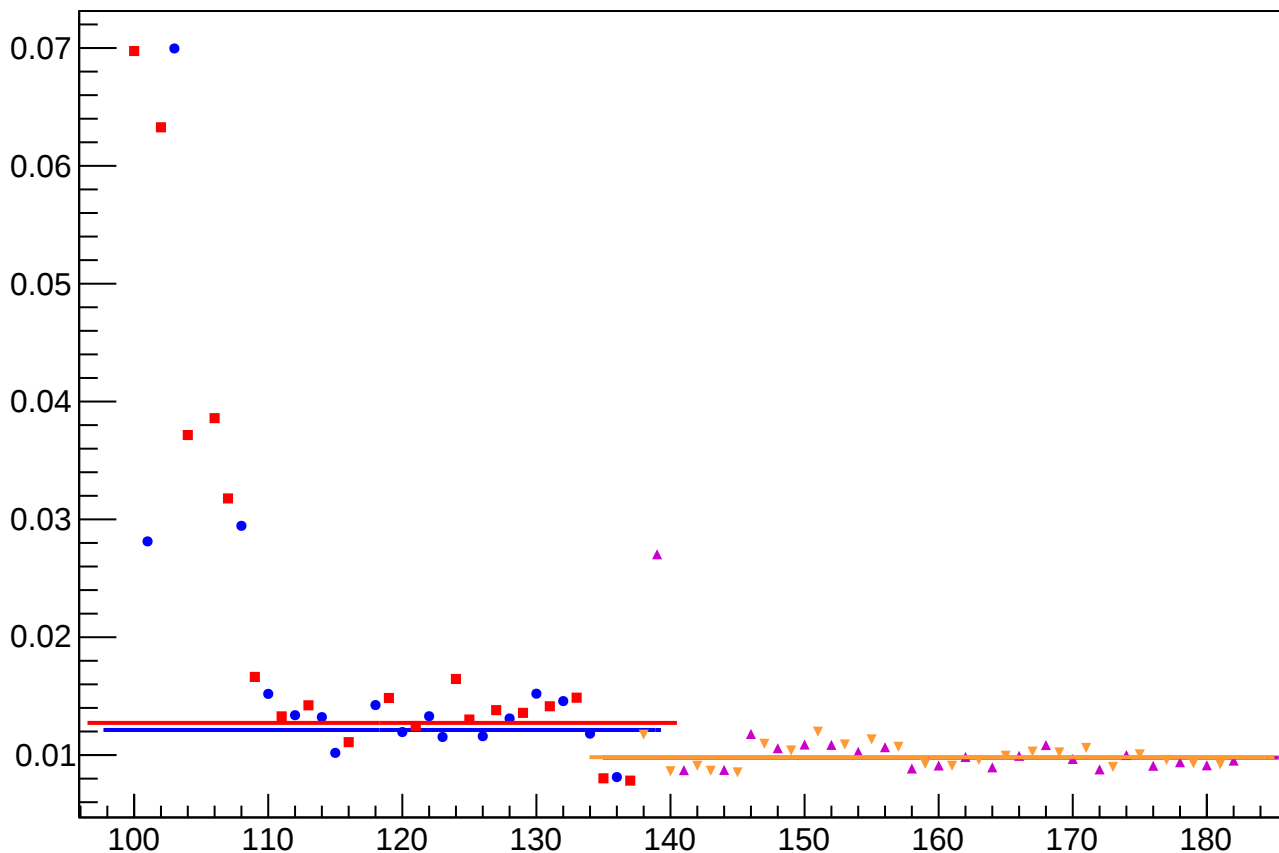
Right: -0.275+/-0.000 χ^2/NDF : 1875885505.2/35

In: -0.407+/-0.000 χ^2/NDF : 1546349863.6/38

Out: -0.409+/-0.000 χ^2/NDF : 1698898531.7/41

All: -0.408+/-0.000 χ^2/NDF : 3245531717.2/8

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:260316.2/22

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1970038.2/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:746750.1/21

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1007275.3/44

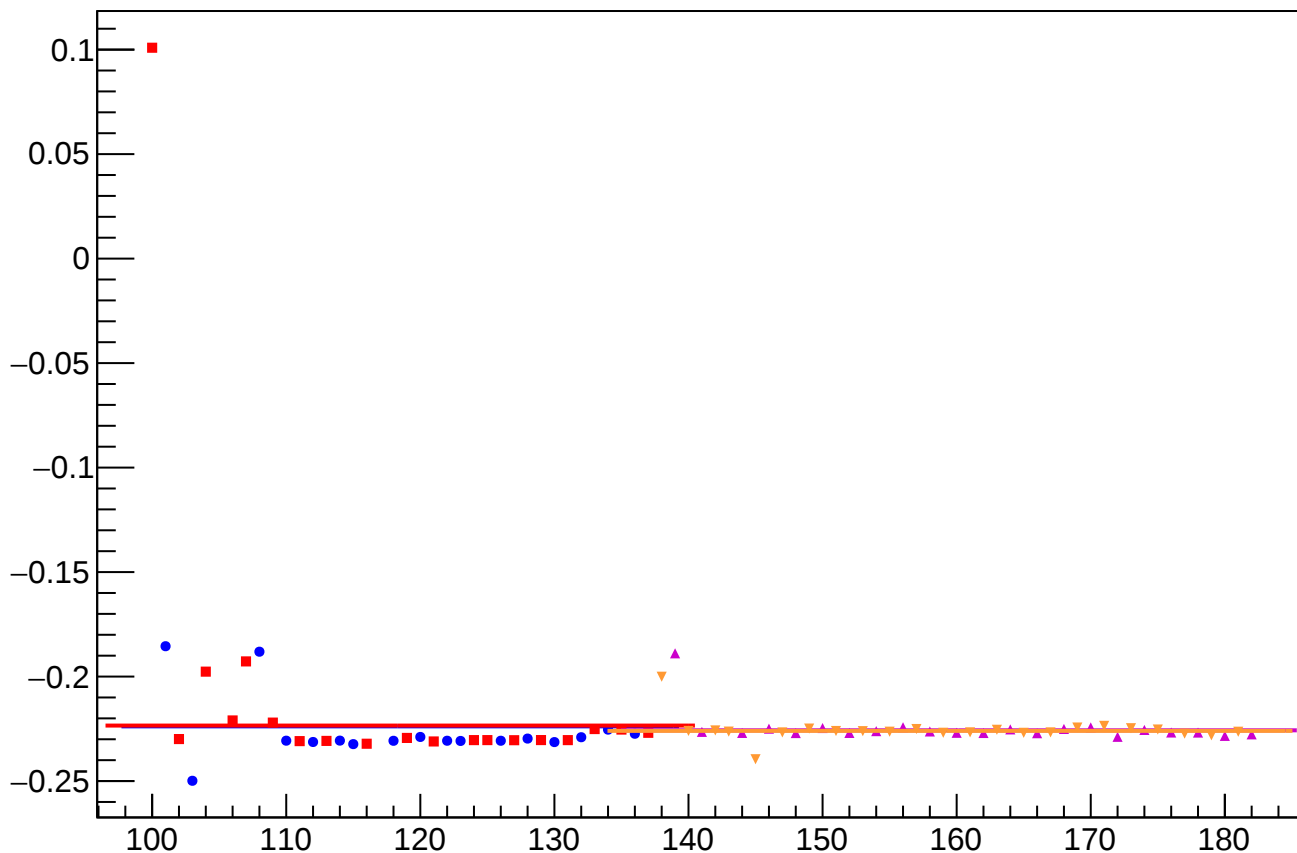
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3705932.5/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2762028.9/38

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2652924.1/41

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5416731.0/80

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 : 21098661.6/22

Right Out: -0.223+/-0.000 χ^2/NDF : 167796311.6/18

Left In: -0.226+/-0.000 χ^2/NDF : 15243972.5/21

Left: -0.226+/-0.000 χ^2/NDF : 36364682.2/44

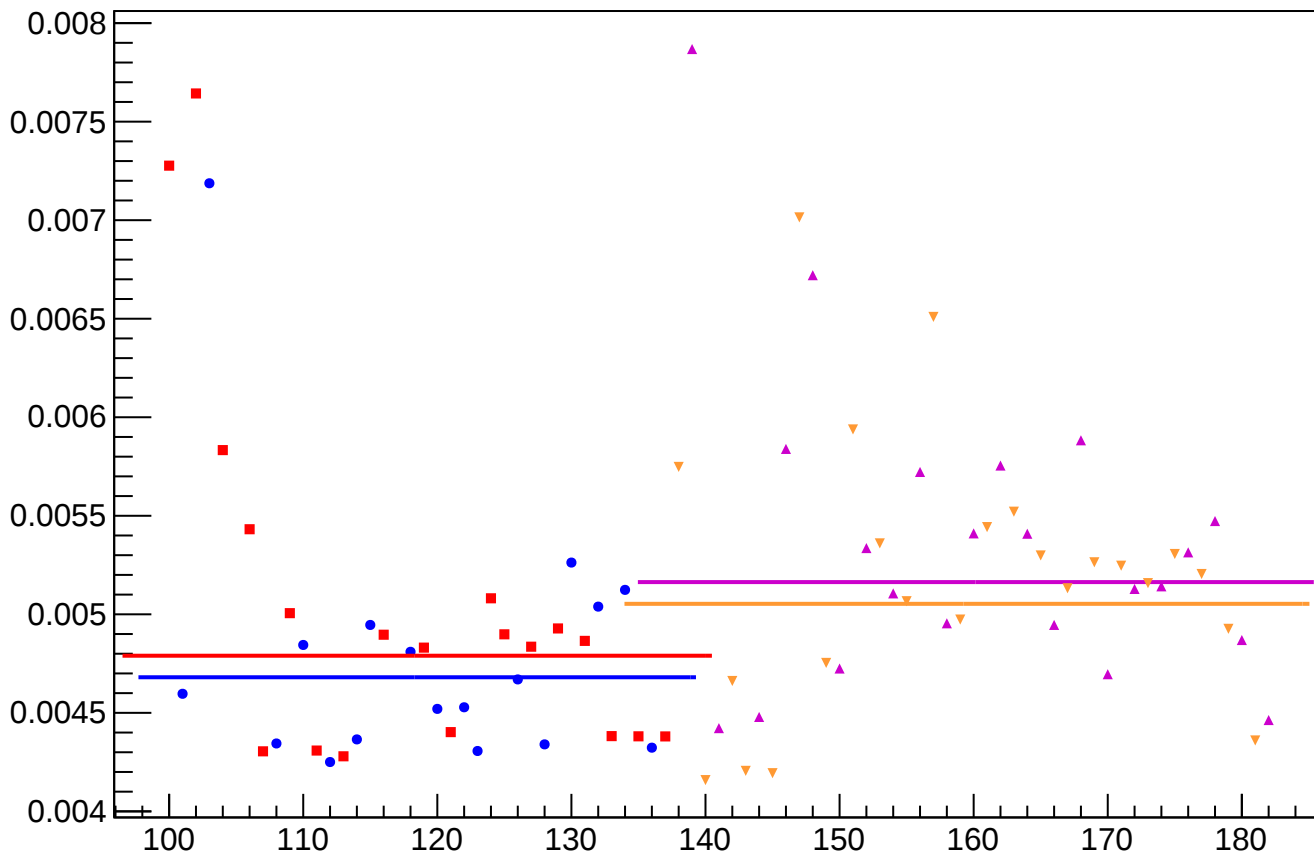
Right: -0.224+/-0.000 χ^2/NDF : 242124166.5/35

In: -0.225+/-0.000 χ^2/NDF : 90228061.3/38

Out: -0.225+/-0.000 χ^2/NDF : 190140032.3/41

All: -0.225+/-0.000 χ^2/NDF : 280371726.9/80

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 : 498705.5/22

Right Out: 0.005+/-0.000 χ^2/NDF : 248518.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 476953.6/21

Left: 0.005+/-0.000 χ^2/NDF : 983178.1/44

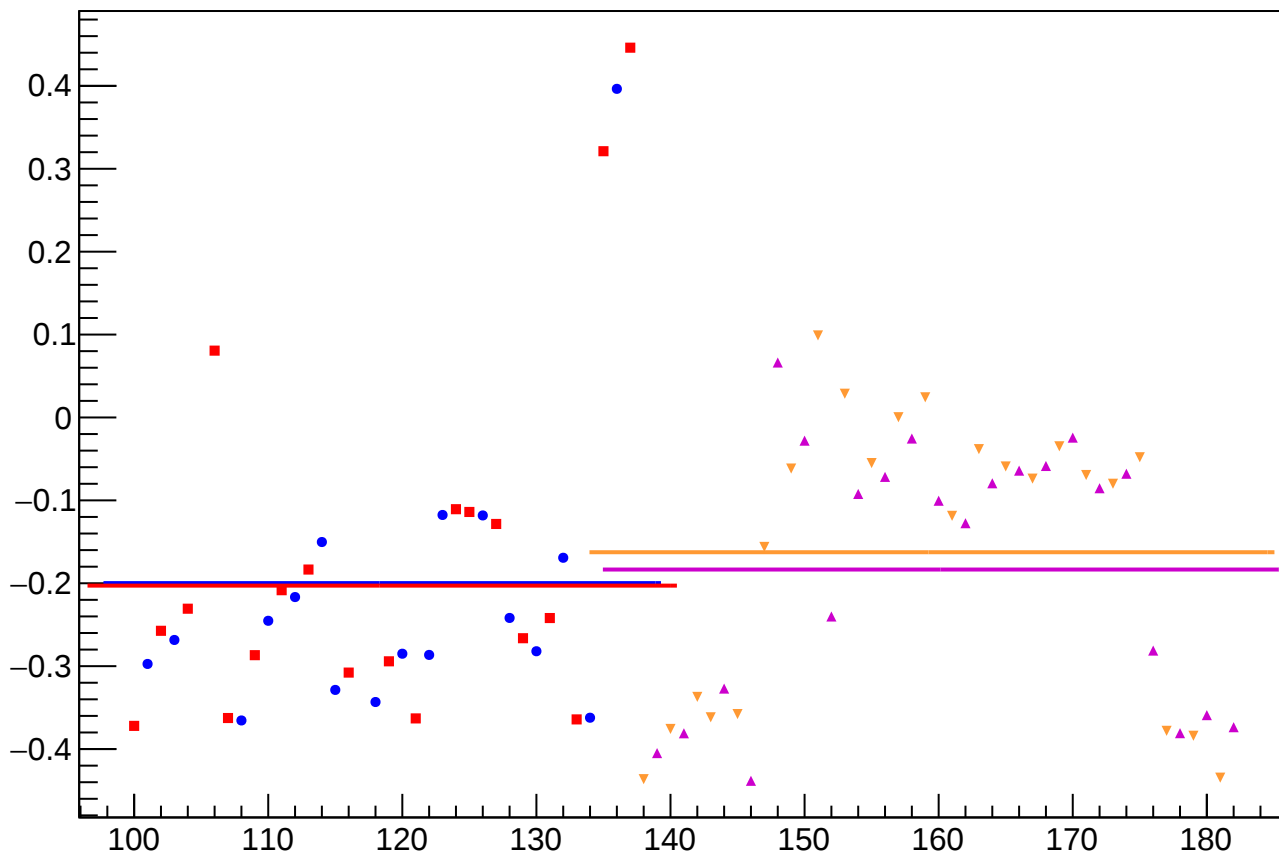
Right: 0.005+/-0.000 χ^2/NDF : 432453.6/35

In: 0.005+/-0.000 χ^2/NDF : 745540.0/38

Out: 0.005+/-0.000 χ^2/NDF : 774050.7/41

All: 0.005+/-0.000 χ^2/NDF : 1520934.6/80

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200+/-0.000 χ^2/NDF : 5966157035.1/16

Left Out: -0.163+/-0.000 χ^2/NDF : 16187516906.4/22

Right Out: -0.203+/-0.000 χ^2/NDF : 5025528680.0/18

Left In: -0.183+/-0.000 χ^2/NDF : 12227148736.0/21

Left: -0.173+/-0.000 χ^2/NDF : 28533682041.2/44

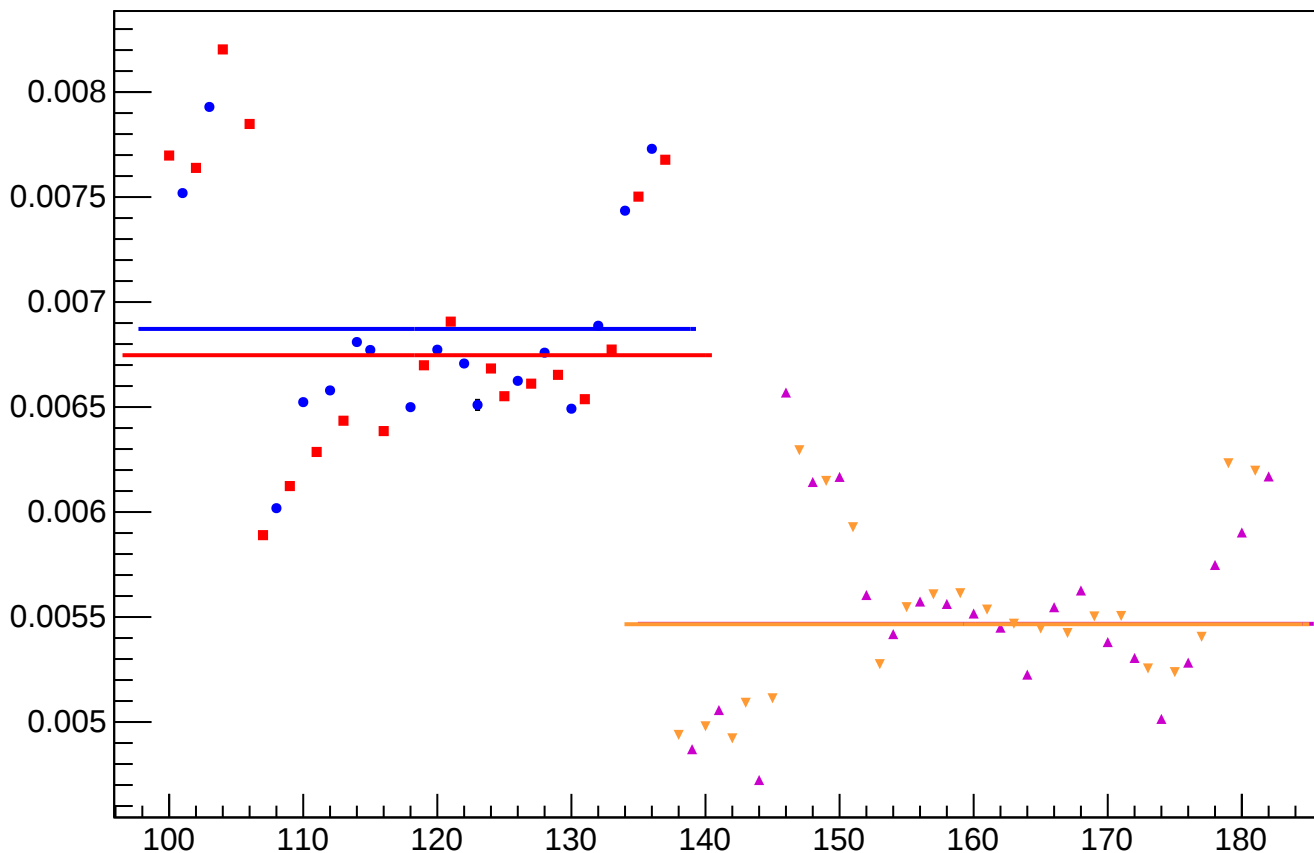
Right: -0.201+/-0.000 χ^2/NDF : 10992344993.2/35

In: -0.187+/-0.000 χ^2/NDF : 18222904355.7/38

Out: -0.171+/-0.000 χ^2/NDF : 21405111278.3/41

All: -0.179+/-0.000 χ^2/NDF : 39711996246.5/74

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 78685.4/16

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:158947.7/22

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 105420.2/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:195559.6/21

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 354509.1/44

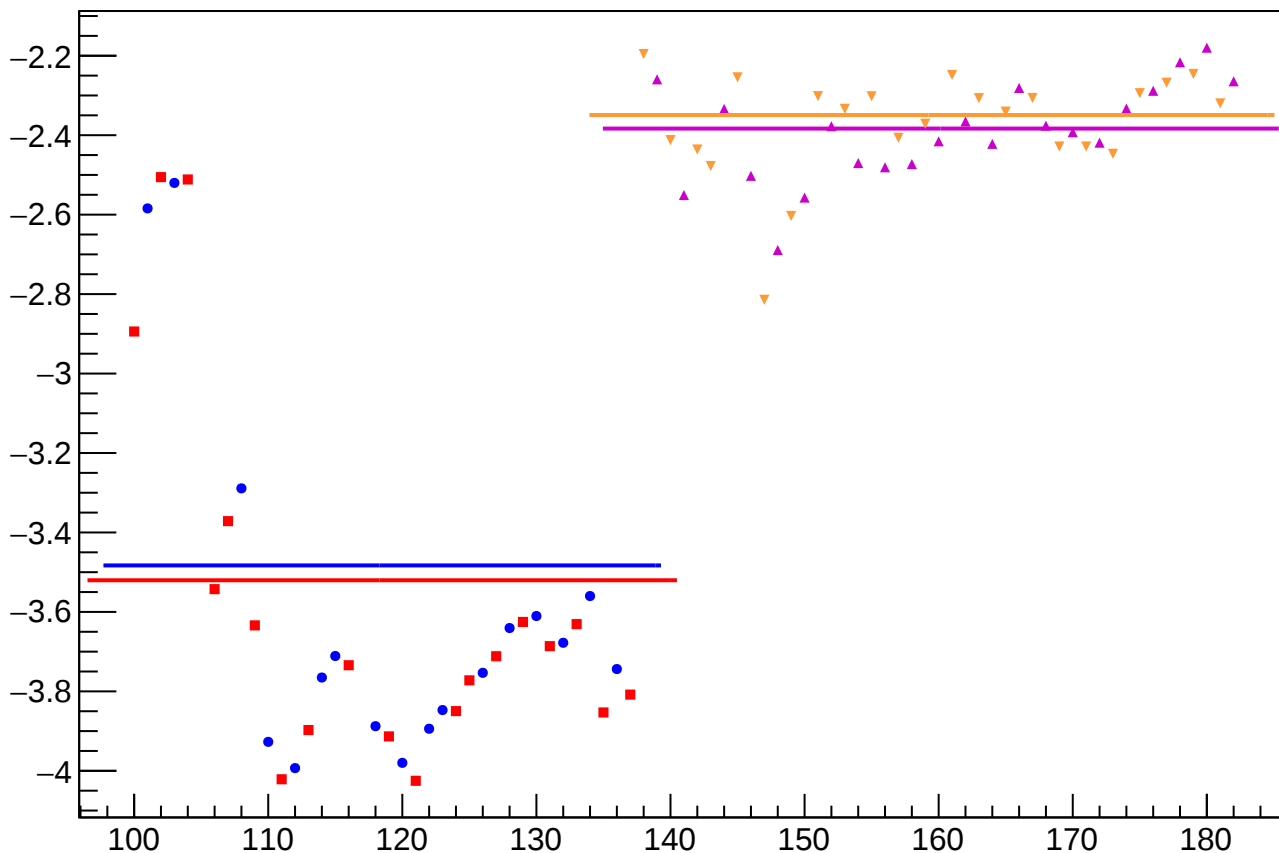
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 186365.3/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:708944.2/38

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:652722.0/41

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1361806.1/80

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.483+/-0.000 χ^2/NDF : 27157654838.2/16

Left Out: -2.349+/-0.000 χ^2/NDF : 2119571384.0/22

Right Out: -3.520+/-0.000 χ^2/NDF : 26453336521.2/18

Left In: -2.383+/-0.000 χ^2/NDF : 2294985683.4/21

Left: -2.366+/-0.000 χ^2/NDF : 4537946452.6/44

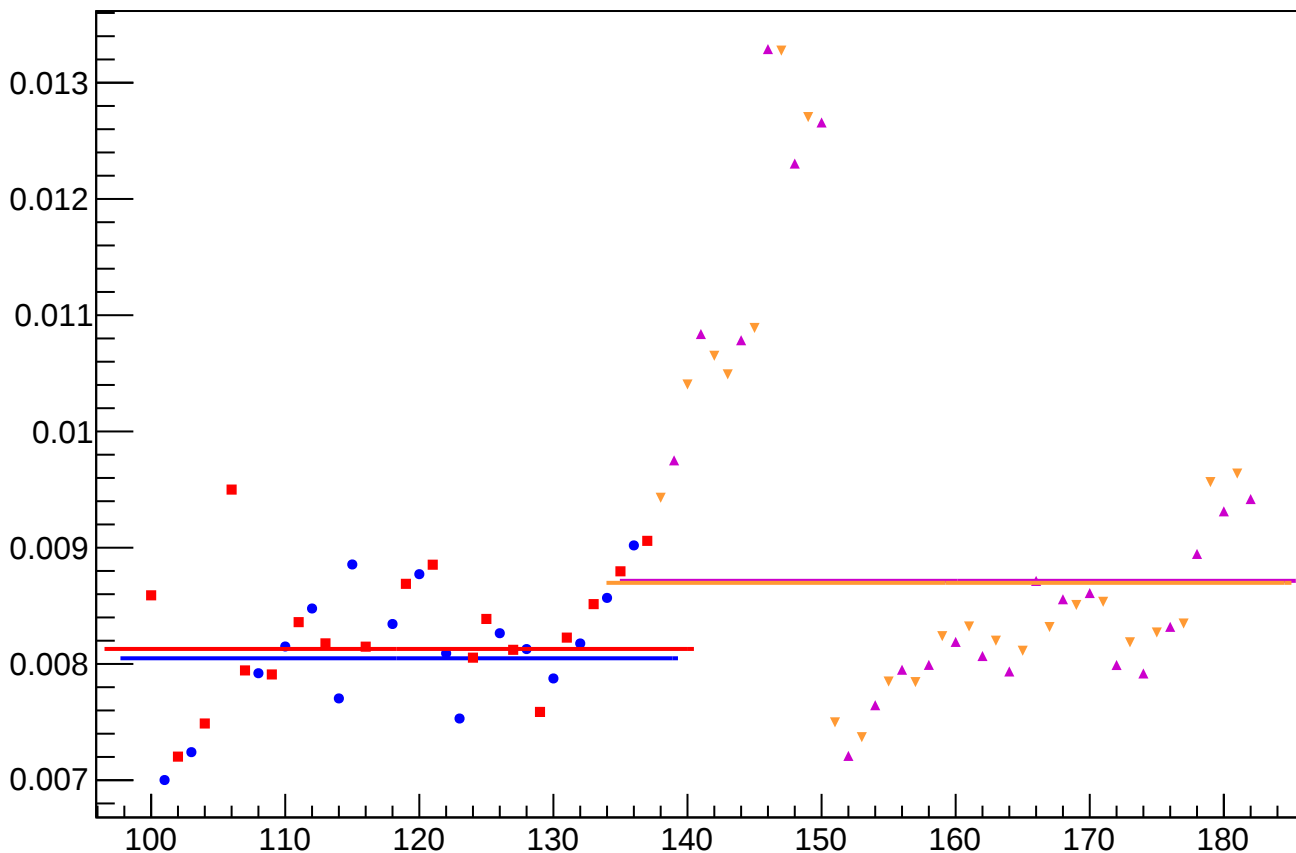
Right: -3.502+/-0.000 χ^2/NDF : 53681520881.9/35

In: -2.738+/-0.000 χ^2/NDF : 111401525788.0/38

Out: -2.727+/-0.000 χ^2/NDF : 123515915259.9/41

All: -2.732+/-0.000 χ^2/NDF : 234938479851.3

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 : 635310.4/22

Right Out: 0.008+/-0.000 χ^2/NDF : 57777.8/18

Left In: 0.009+/-0.000 χ^2/NDF : 747083.5/21

Left: 0.009+/-0.000 χ^2/NDF : 1382457.1/44

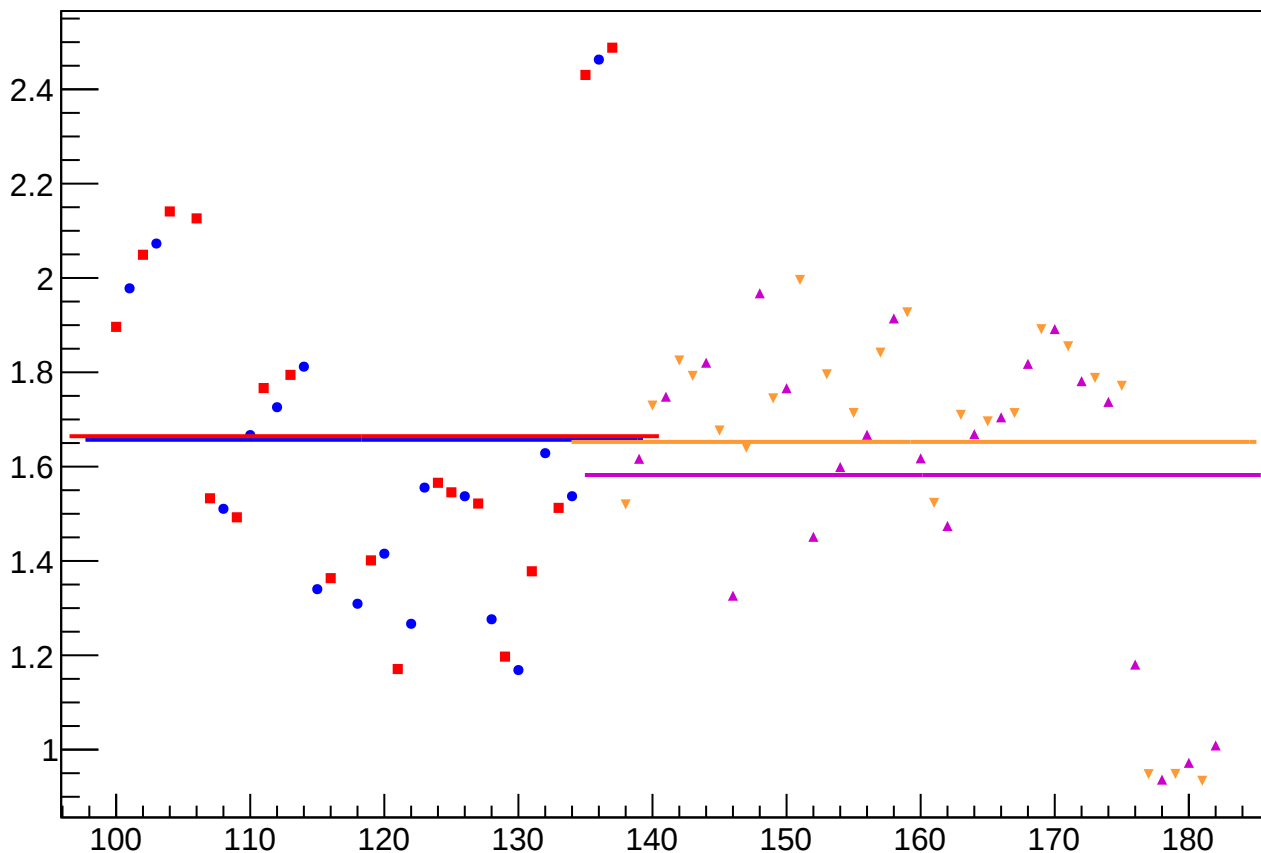
Right: 0.008+/-0.000 χ^2/NDF : 130608.9/35

In: 0.008+/-0.000 χ^2/NDF : 879447.0/38

Out: 0.009+/-0.000 χ^2/NDF : 737860.0/41

All: 0.009+/-0.000 χ^2/NDF : 1617373.5/80

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657 $\pm$ 0.000 χ^2 /NDF: 6432420267.9/16

Left Out: 1.652 $\pm$ 0.000 χ^2 /NDF:13300345690.3/22

Right Out: 1.664 $\pm$ 0.000 χ^2 /NDF: 5940917748.5/18

Left In: 1.582 $\pm$ 0.000 χ^2 /NDF:13157444449.0/21

Left: 1.618 $\pm$ 0.000 χ^2 /NDF: 26820991577.7/44

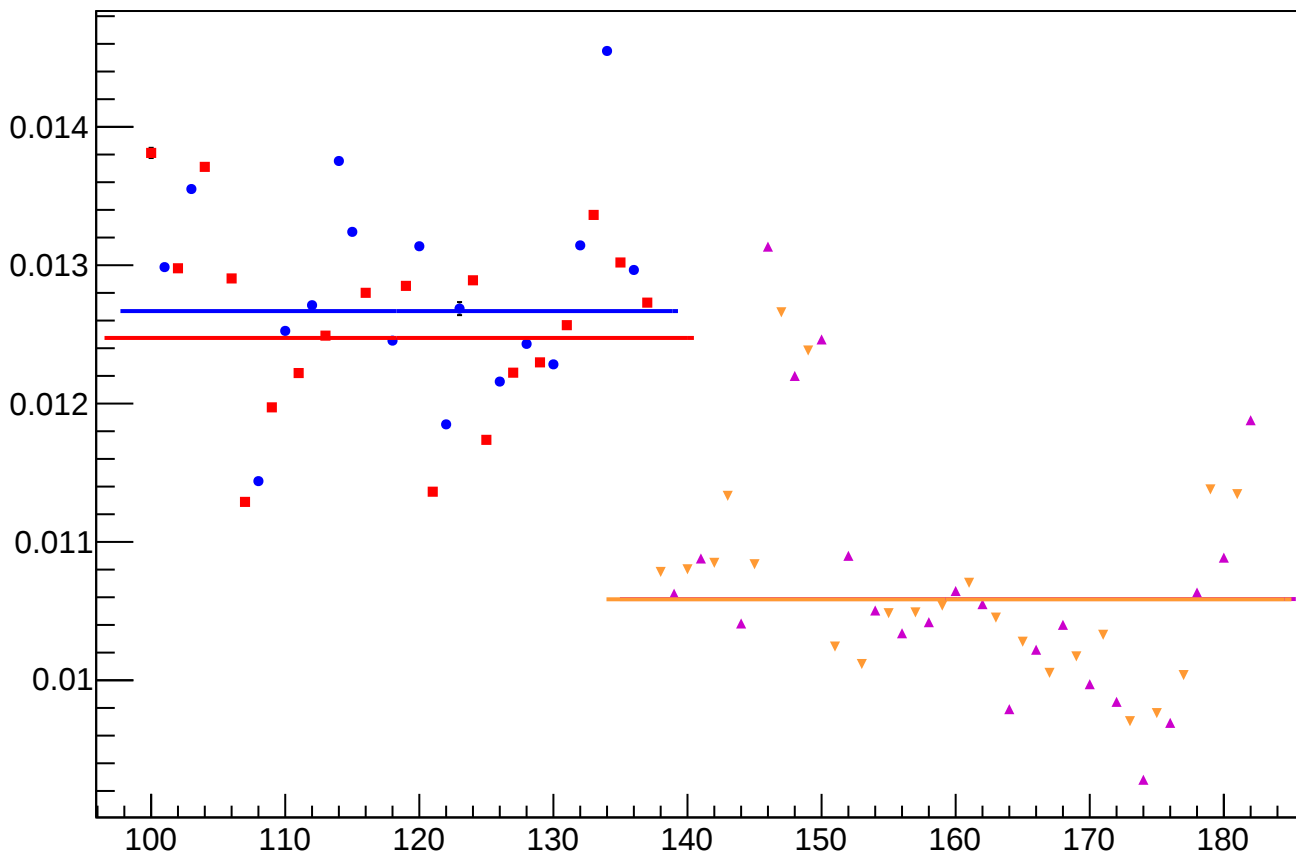
Right: 1.661 $\pm$ 0.000 χ^2 /NDF: 12374534399.5/35

In: 1.599 $\pm$ 0.000 χ^2 /NDF:19767522117.8/38

Out: 1.655 $\pm$ 0.000 χ^2 /NDF:19246189342.8/41

All: 1.627 $\pm$ 0.000 χ^2 /NDF: 39317872866.6/80

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 :135566.5/22

Right Out: 0.012+/-0.000 χ^2/NDF : 38559.4/18

Left In: 0.011+/-0.000 χ^2/NDF :201570.2/21

Left: 0.011+/-0.000 χ^2/NDF : 337137.2/44

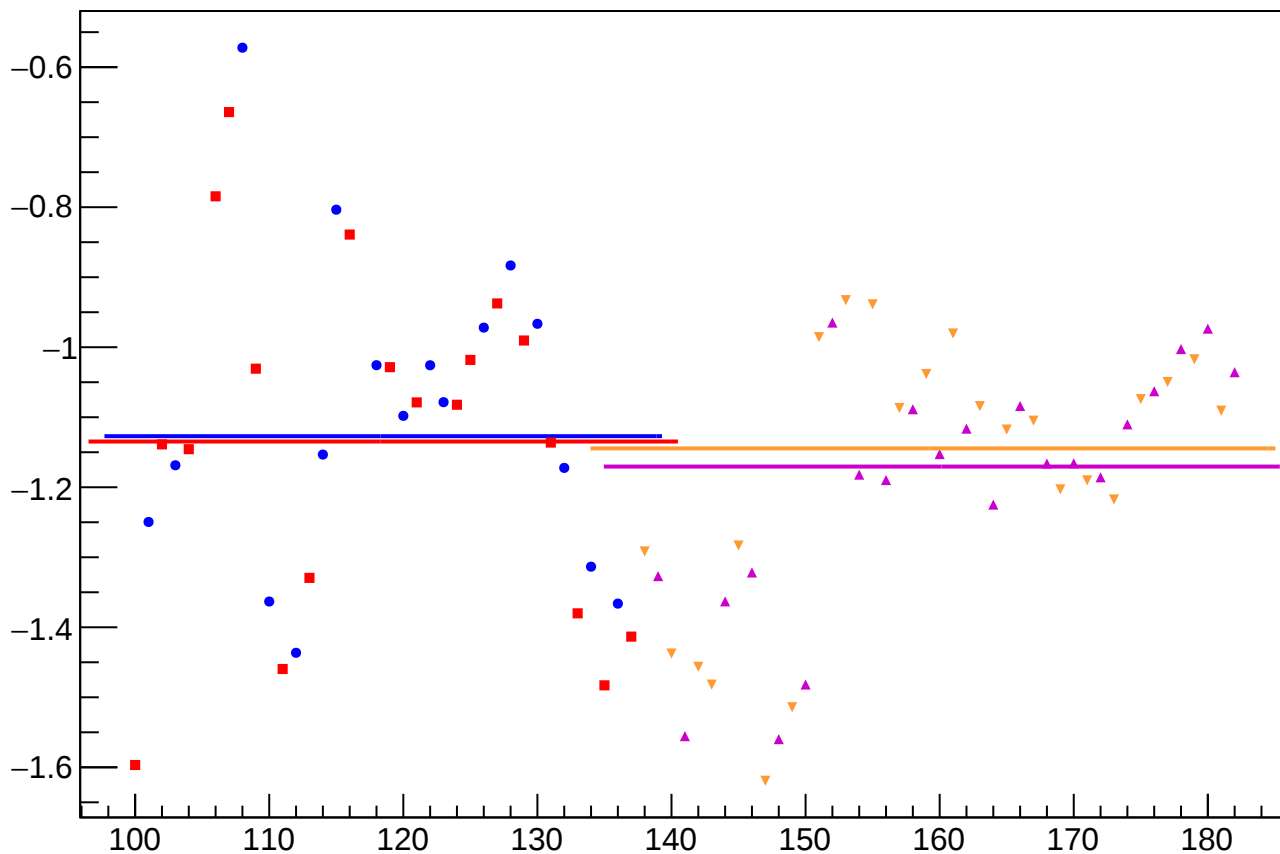
Right: 0.013+/-0.000 χ^2/NDF : 71882.0/35

In: 0.011+/-0.000 χ^2/NDF :509056.2/38

Out: 0.011+/-0.000 χ^2/NDF :417150.1/41

All: 0.011+/-0.000 χ^2/NDF : 926331.1/80

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.127 $\pm$ 0.000 χ^2/NDF : 3546179478.6/16

Left Out: -1.145 $\pm$ 0.000 χ^2/NDF : 7713133106.9/22

Right Out: -1.135 $\pm$ 0.000 χ^2/NDF : 3674870672.6/18

Left In: -1.170 $\pm$ 0.000 χ^2/NDF : 6311625829.9/21

Left: -1.157 $\pm$ 0.000 χ^2/NDF : 14113001547.7/44

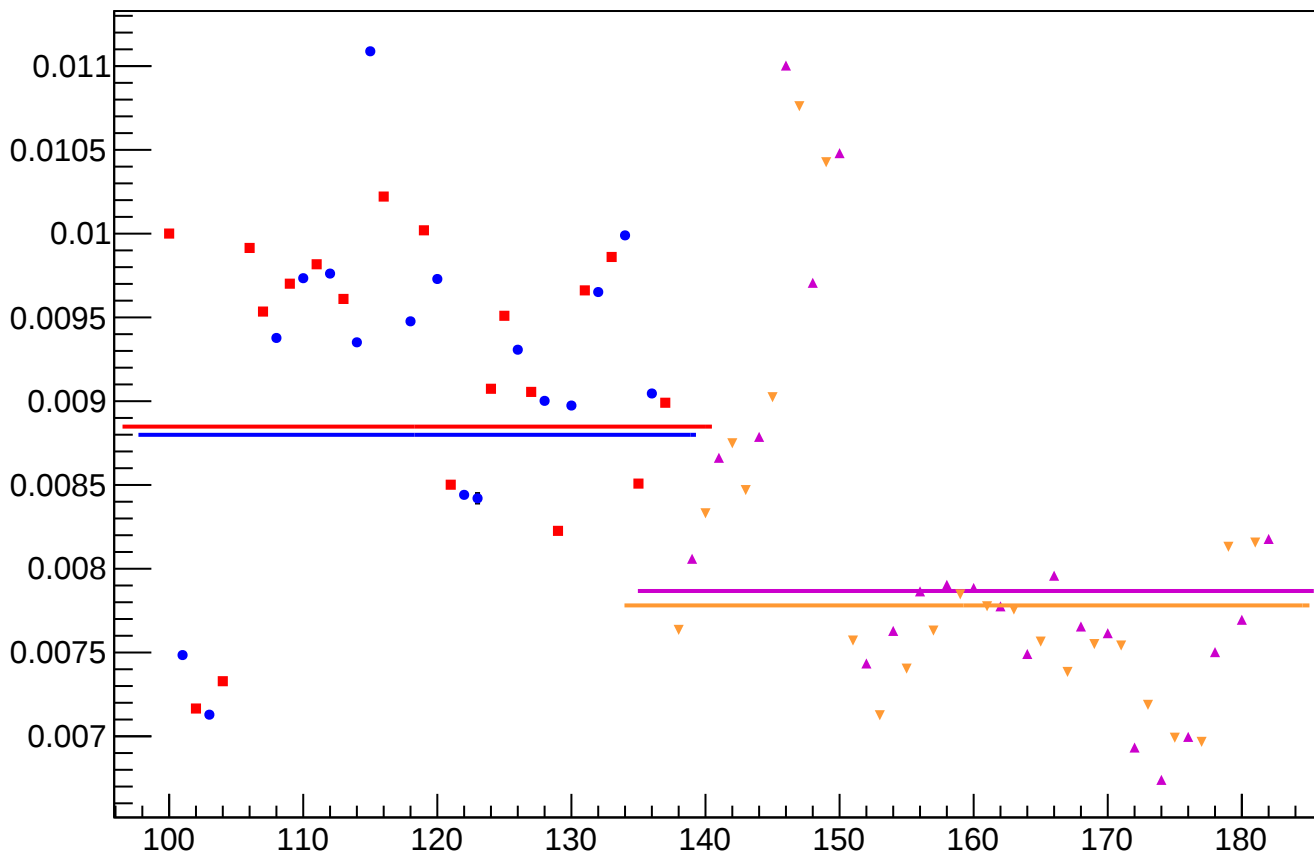
Right: -1.131 $\pm$ 0.000 χ^2/NDF : 7223462061.2/35

In: -1.160 $\pm$ 0.000 χ^2/NDF : 9975021338.1/38

Out: -1.142 $\pm$ 0.000 χ^2/NDF : 11394199927.6/41

All: -1.151 $\pm$ 0.000 χ^2/NDF : 21424033430.2/78

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 :315966.7/22

Right Out: 0.009+/-0.000 χ^2/NDF : 174016.9/18

Left In: 0.008+/-0.000 χ^2/NDF :379894.9/21

Left: 0.008+/-0.000 χ^2/NDF : 697804.6/44

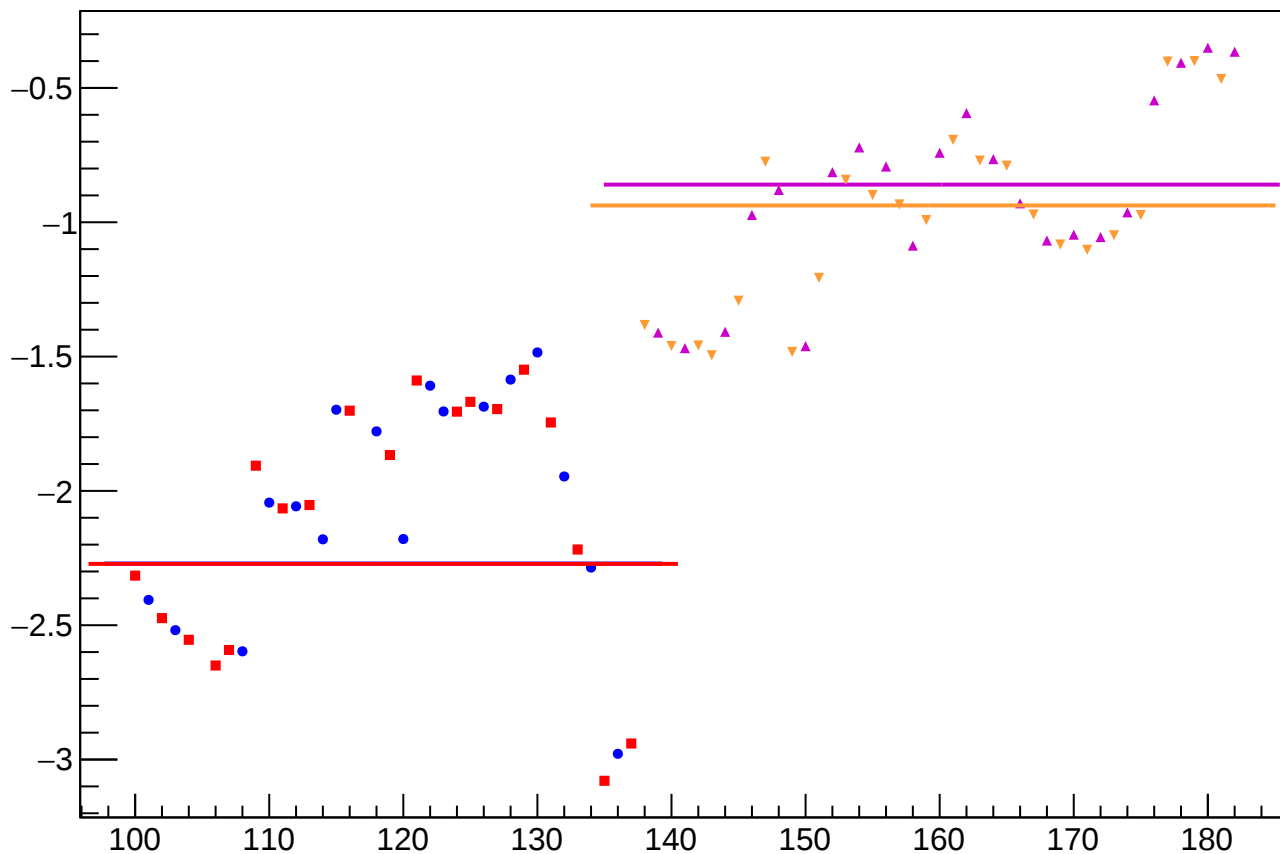
Right: 0.009+/-0.000 χ^2/NDF : 325740.2/35

In: 0.008+/-0.000 χ^2/NDF :639516.2/38

Out: 0.008+/-0.000 χ^2/NDF :635793.2/41

All: 0.008+/-0.000 χ^2/NDF : 1276367.5/80

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.271+/-0.000 χ^2/NDF : 17322622121.9/16

Left Out: -0.937+/-0.000 χ^2/NDF : 41820818464.3/22

Right Out: -2.272+/-0.000 χ^2/NDF : 19002792241.6/18

Left In: -0.860+/-0.000 χ^2/NDF : 44664942111.6/21

Left: -0.898+/-0.000 χ^2/NDF : 87763546770.5/44

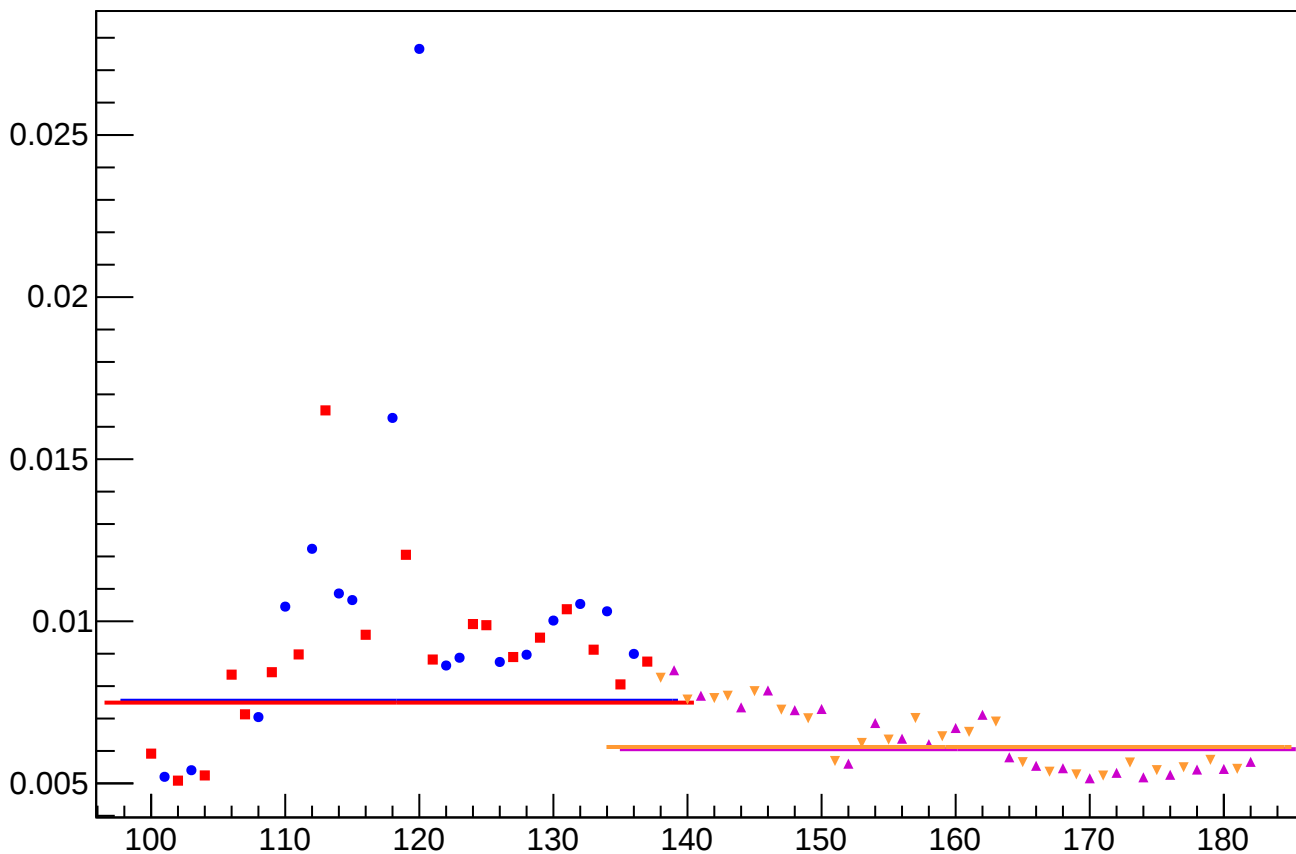
Right: -2.271+/-0.000 χ^2/NDF : 36325463324.0/35

In: -1.101+/-0.000 χ^2/NDF : 207288689921.2/38

Out: -1.191+/-0.000 χ^2/NDF : 204393958310.1/41

All: -1.146+/-0.000 χ^2/NDF : 413814800276.1

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 : 622738.1/22

Right Out: 0.007+/-0.000 χ^2/NDF : 926036.5/18

Left In: 0.006+/-0.000 χ^2/NDF : 697372.6/21

Left: 0.006+/-0.000 χ^2/NDF : 1322062.7/44

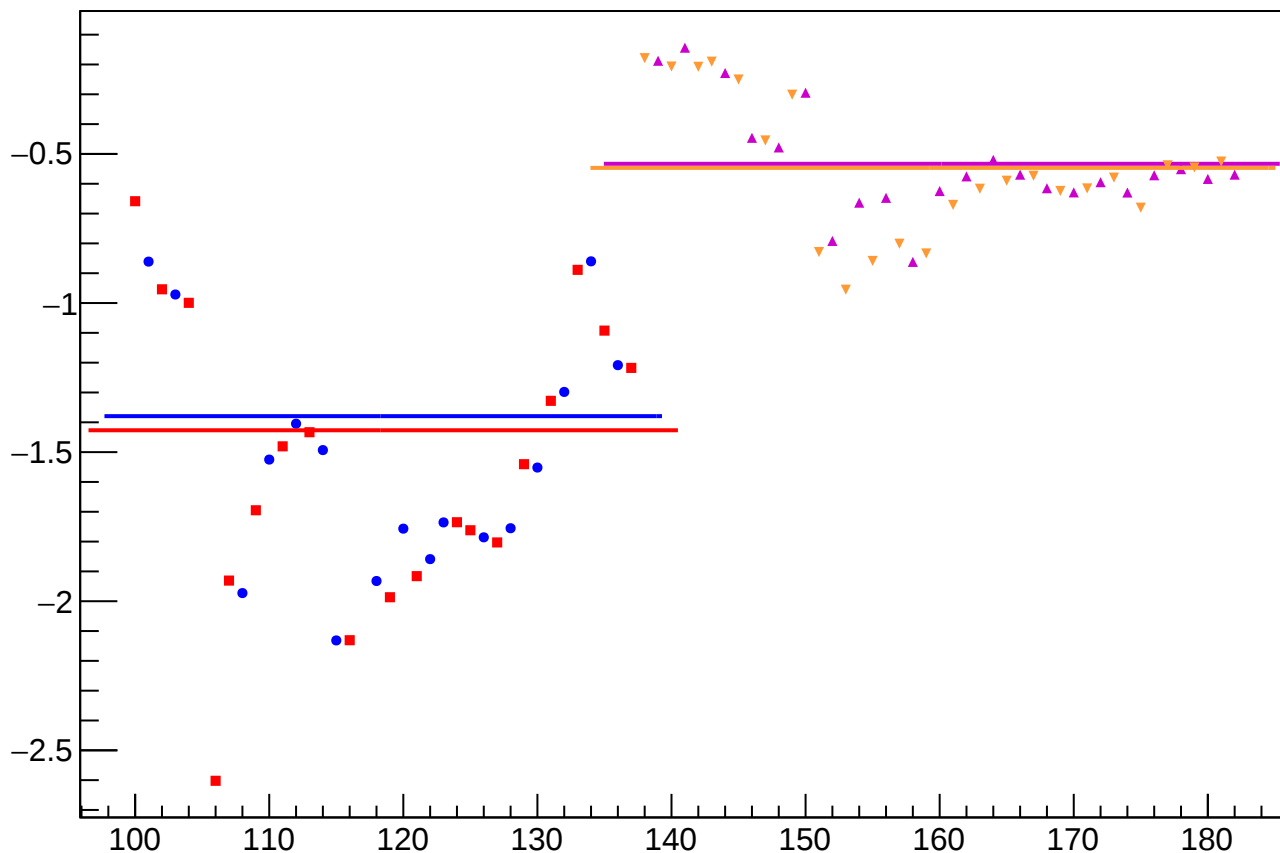
Right: 0.008+/-0.000 χ^2/NDF : 2141481.5/35

In: 0.006+/-0.000 χ^2/NDF : 2238677.3/38

Out: 0.006+/-0.000 χ^2/NDF : 1851017.2/41

All: 0.006+/-0.000 χ^2/NDF : 4092471.5/80

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.379+/-0.000 χ^2/NDF : 19933785465.4/16

Left Out: -0.547+/-0.000 χ^2/NDF : 46200191904.2/22

Right Out: -1.427+/-0.000 χ^2/NDF : 29588471982.5/18

Left In: -0.533+/-0.000 χ^2/NDF : 30685040934.8/21

Left: -0.540+/-0.000 χ^2/NDF : 76972739895.1/44

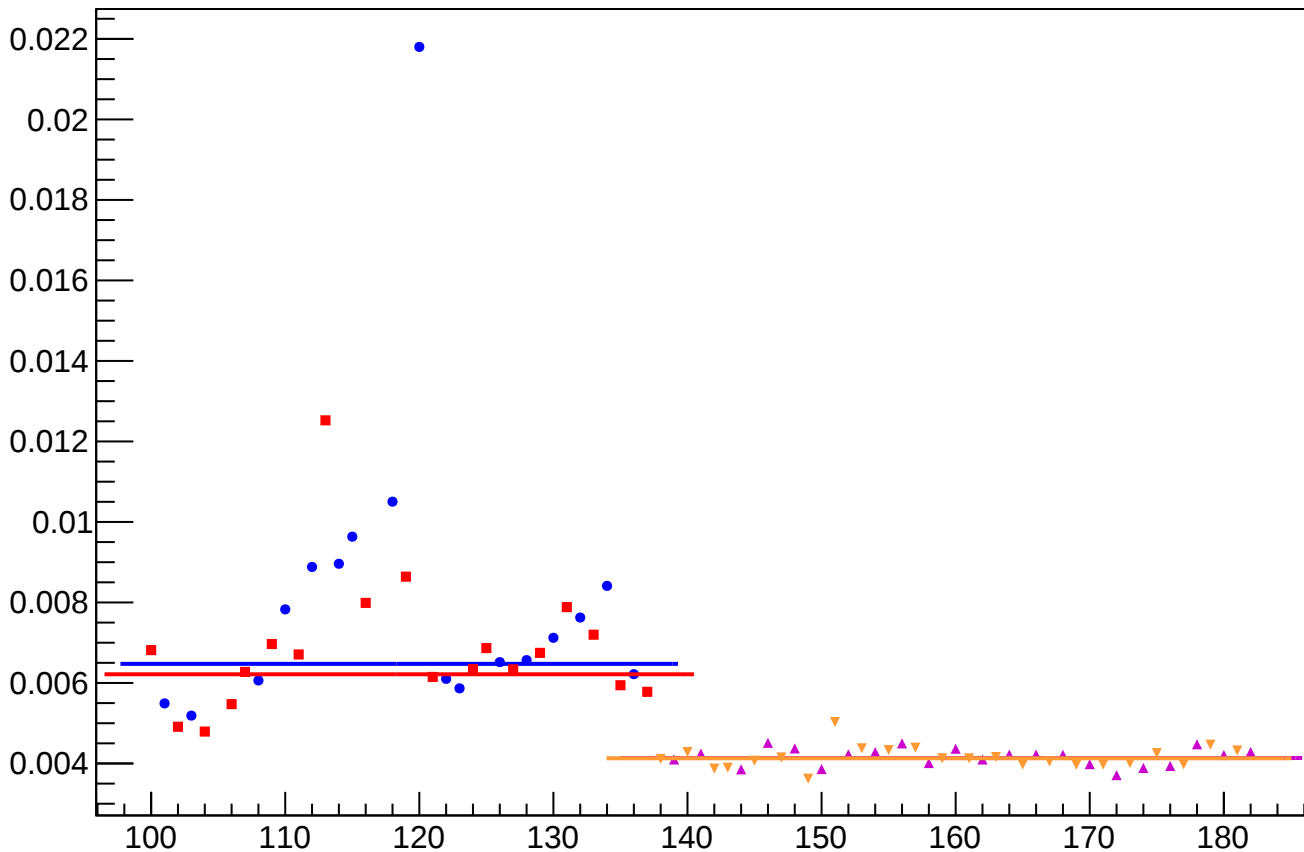
Right: -1.405+/-0.000 χ^2/NDF : 49678951559.0/35

In: -0.638+/-0.000 χ^2/NDF : 131889415171.5/38

Out: -0.670+/-0.000 χ^2/NDF : 176891356432.0/41

All: -0.654+/-0.000 χ^2/NDF : 309328828884.4

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 : 111142.0/22

Right Out: 0.006 ± 0.000 χ^2/NDF : 418205.6/18

Left In: 0.004 ± 0.000 χ^2/NDF : 89671.5/21

Left: 0.004 ± 0.000 χ^2/NDF : 200853.4/44

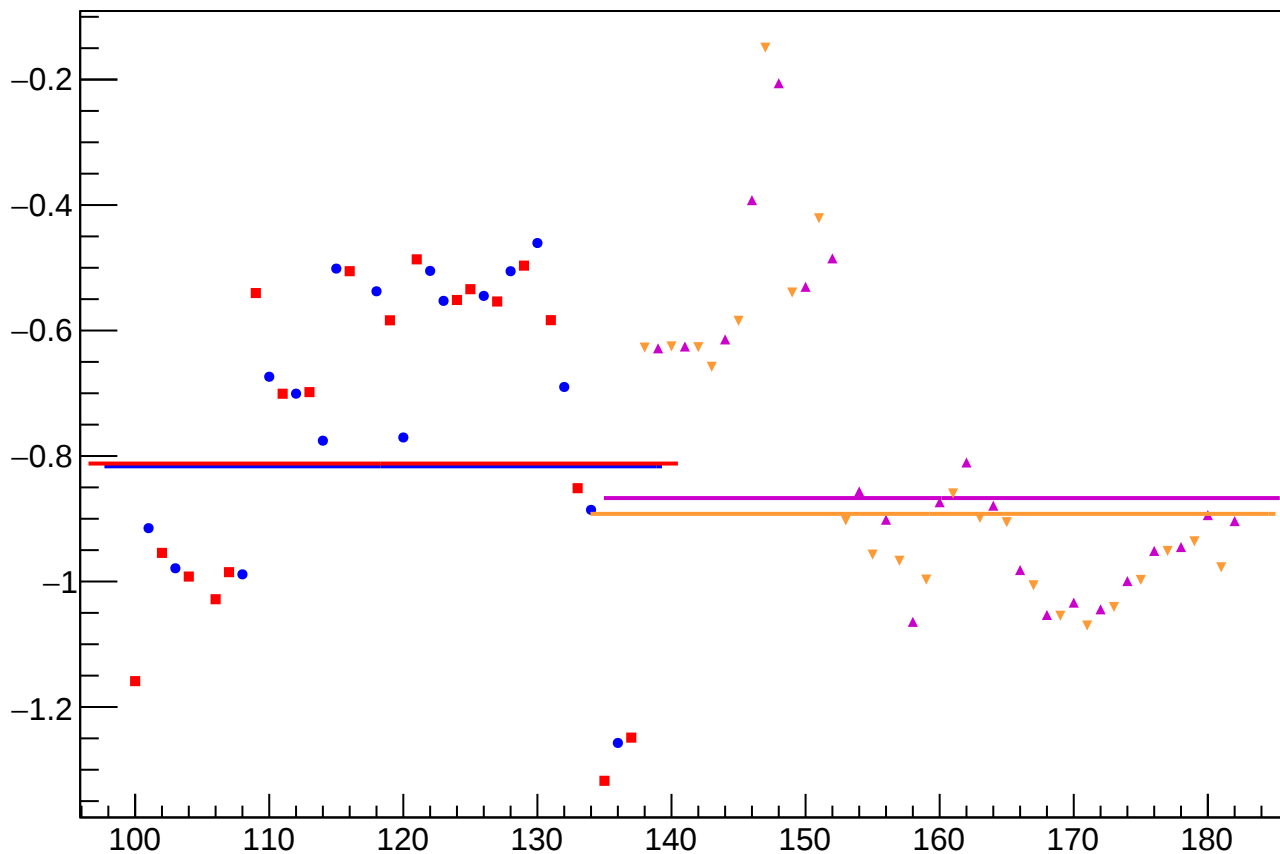
Right: 0.006 ± 0.000 χ^2/NDF : 998013.7/35

In: 0.004 ± 0.000 χ^2/NDF : 1901642.2/38

Out: 0.004 ± 0.000 χ^2/NDF : 1666331.7/41

All: 0.004 ± 0.000 χ^2/NDF : 3567992.5/80

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 $\pm$ 0.000 χ^2/NDF : 14108272810.0/16

Left Out: -0.892 $\pm$ 0.000 χ^2/NDF : 40577377784.5/22

Right Out: -0.812 $\pm$ 0.000 χ^2/NDF : 16809508448.8/18

Left In: -0.867 $\pm$ 0.000 χ^2/NDF : 43781740640.6/21

Left: -0.879 $\pm$ 0.000 χ^2/NDF : 84702428191.1/44

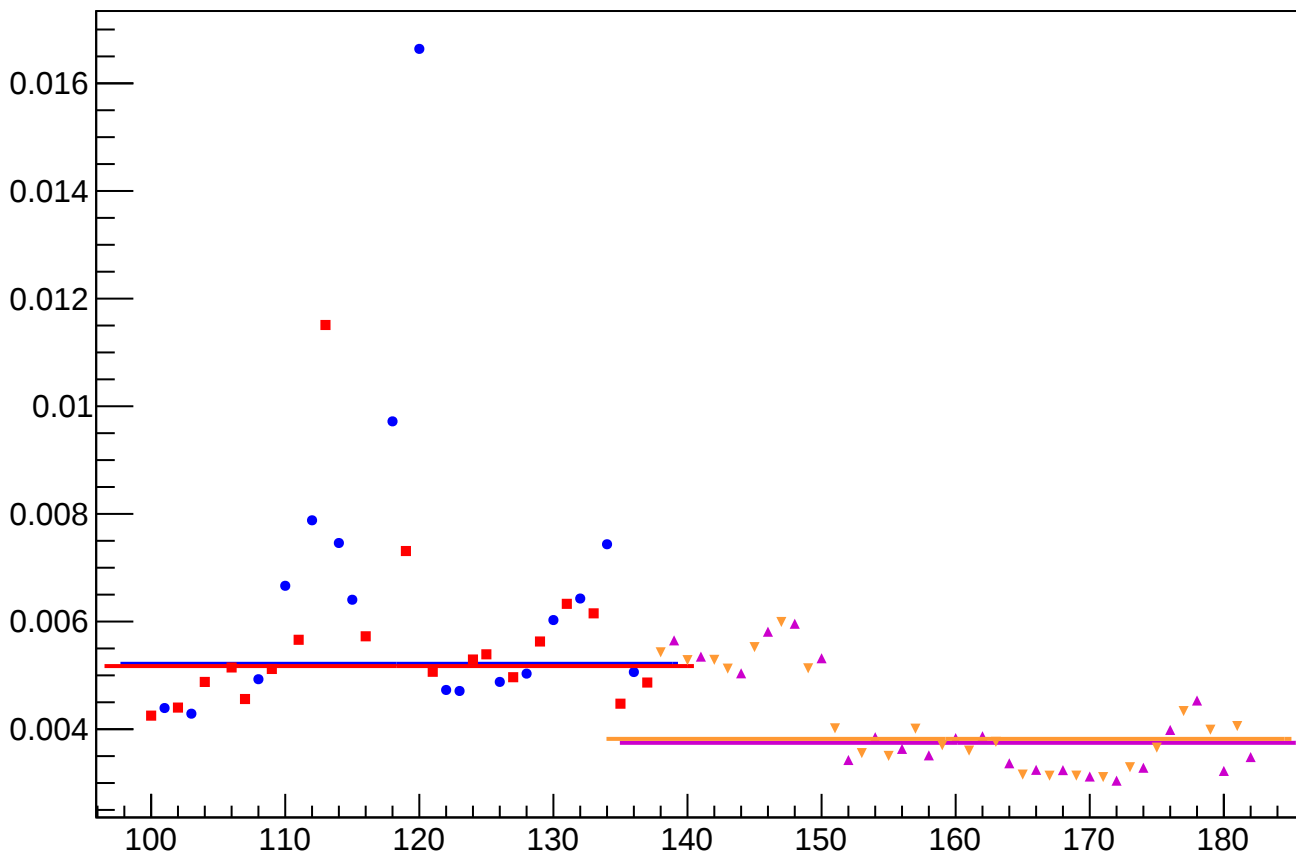
Right: -0.814 $\pm$ 0.000 χ^2/NDF : 30919803478.2/35

In: -0.859 $\pm$ 0.000 χ^2/NDF : 58315460599.5/38

Out: -0.878 $\pm$ 0.000 χ^2/NDF : 58566294004.0/41

All: -0.869 $\pm$ 0.000 χ^2/NDF : 117116438500.3

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 662832.6/16

Left Out: 0.004+/-0.000 χ^2/NDF :1157518.3/22

Right Out: 0.005+/-0.000 χ^2/NDF : 359707.6/18

Left In: 0.004+/-0.000 χ^2/NDF :1287688.0/21

Left: 0.004+/-0.000 χ^2/NDF : 2451057.5/44

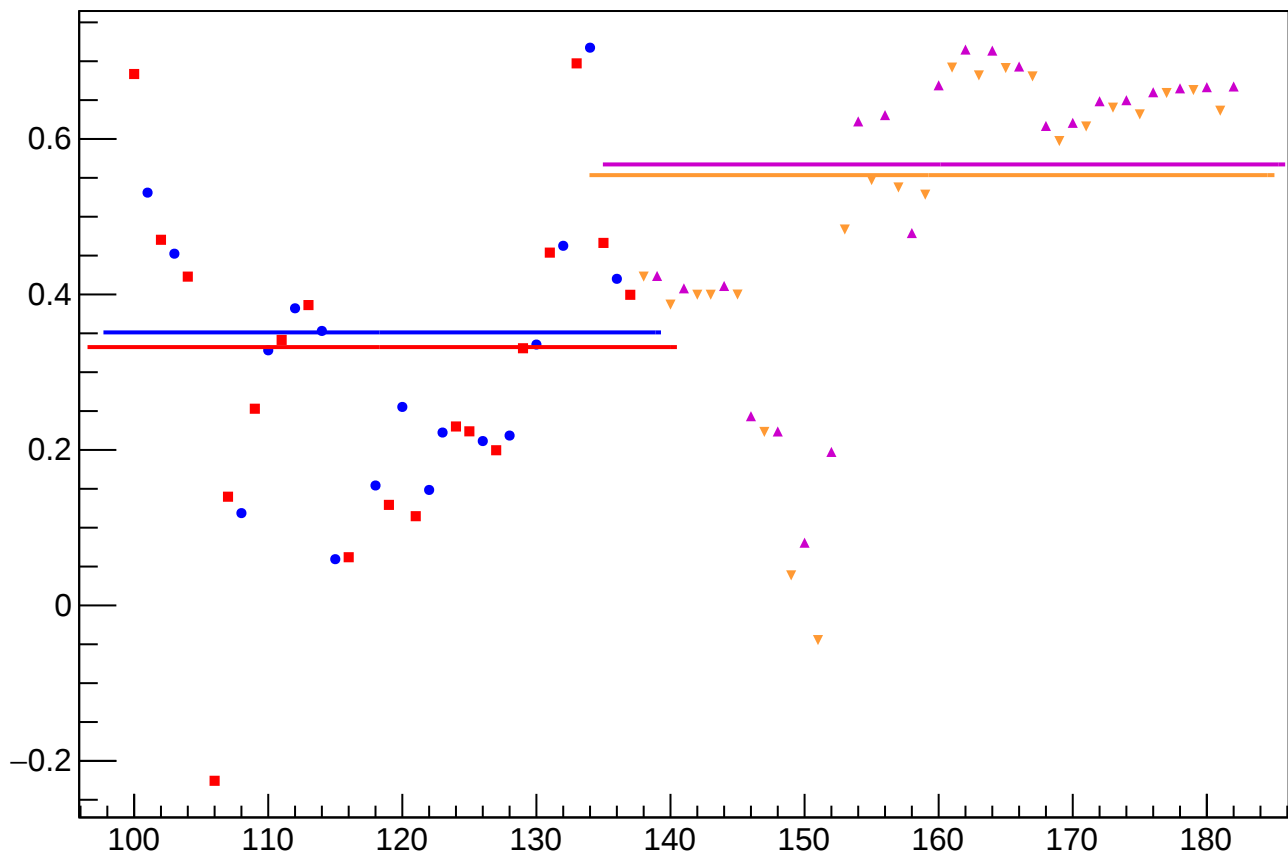
Right: 0.005+/-0.000 χ^2/NDF : 1022911.9/35

In: 0.004+/-0.000 χ^2/NDF :2667144.4/38

Out: 0.004+/-0.000 χ^2/NDF :2188327.7/41

All: 0.004+/-0.000 χ^2/NDF : 4864516.0/80

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351 $\pm$ 0.000 χ^2 /NDF: 7385246200.8/16

Left Out: 0.553 $\pm$ 0.000 χ^2 /NDF: 43245921410.8/22

Right Out: 0.332 $\pm$ 0.000 χ^2 /NDF: 11783358695.7/18

Left In: 0.567 $\pm$ 0.000 χ^2 /NDF: 41587189206.5/21

Left: 0.560 $\pm$ 0.000 χ^2 /NDF: 84978667273.5/44

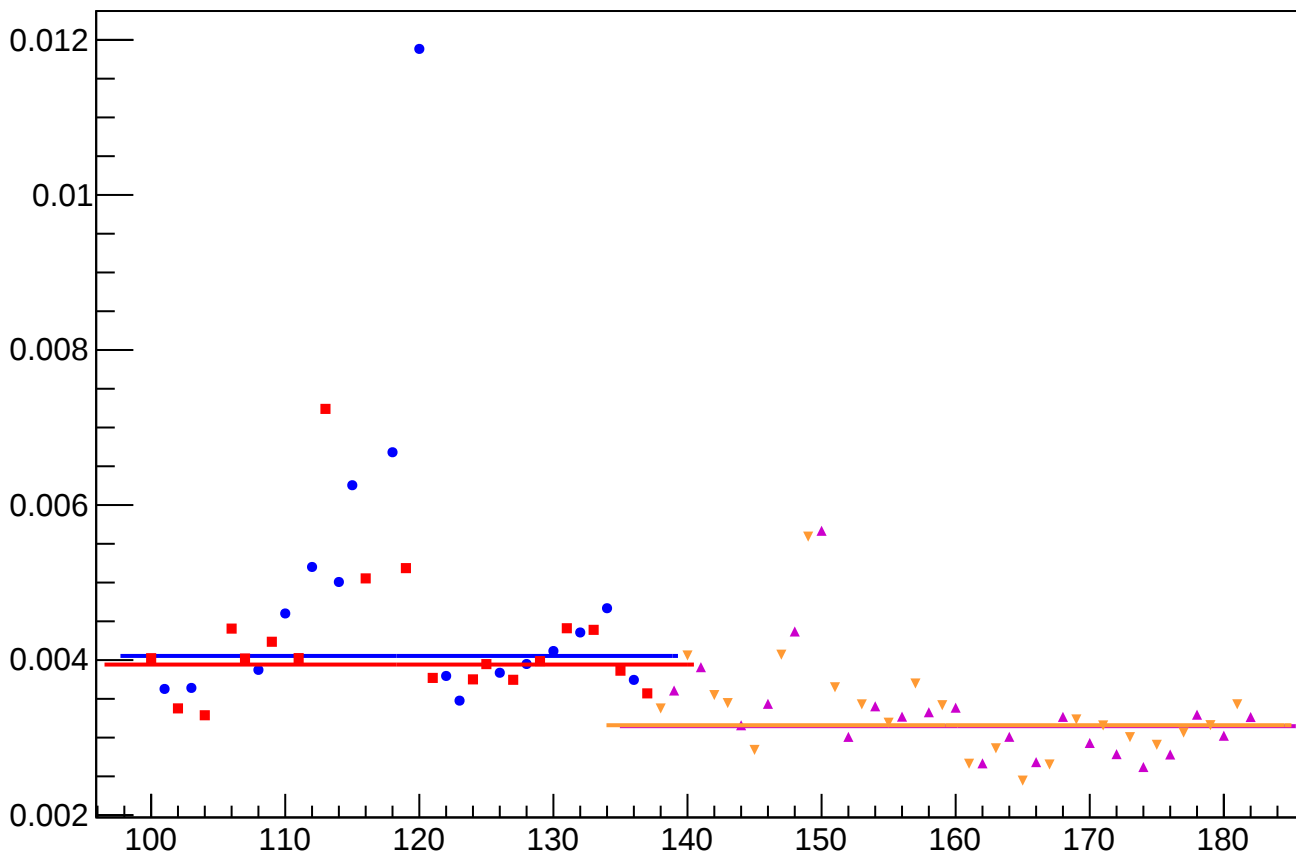
Right: 0.341 $\pm$ 0.000 χ^2 /NDF: 19234190594.7/35

In: 0.528 $\pm$ 0.000 χ^2 /NDF: 62134025556.3/38

Out: 0.509 $\pm$ 0.000 χ^2 /NDF: 70324698960.8/41

All: 0.518 $\pm$ 0.000 χ^2 /NDF: 132801139374.1

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 : 736631.6/22

Right Out: 0.004+/-0.000 χ^2/NDF : 259219.7/18

Left In: 0.003+/-0.000 χ^2/NDF : 716213.6/21

Left: 0.003+/-0.000 χ^2/NDF : 1453076.4/44

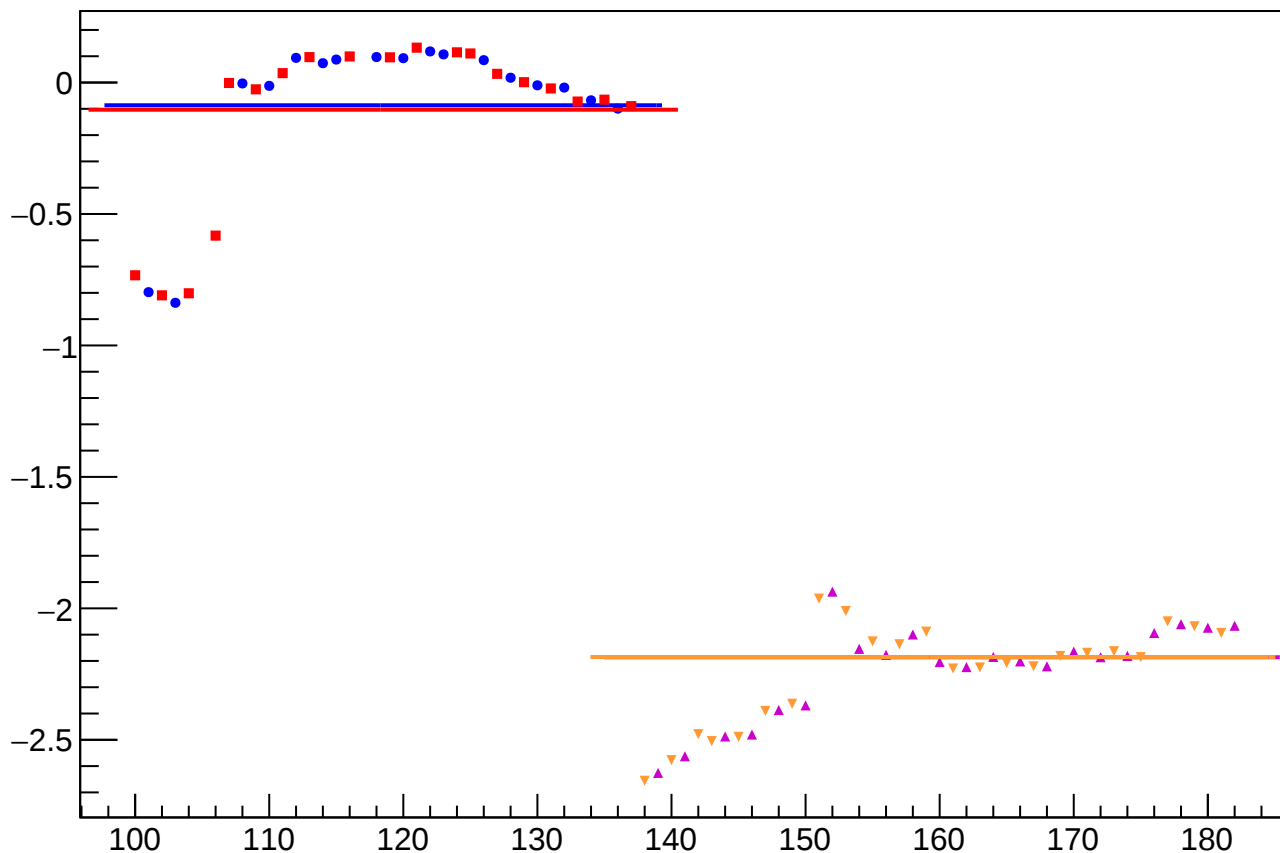
Right: 0.004+/-0.000 χ^2/NDF : 717489.4/35

In: 0.003+/-0.000 χ^2/NDF : 1632861.7/38

Out: 0.003+/-0.000 χ^2/NDF : 1378714.7/41

All: 0.003+/-0.000 χ^2/NDF : 3011616.4/80

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000

χ^2/NDF : 4986216359.8/16

Left: -2.186+/-0.000

χ^2/NDF : 7268808258.0/44

Left Out: -2.185+/-0.000

χ^2/NDF : 3908707944.0/22

Right: -0.095+/-0.000

χ^2/NDF : 10541991957.2/35

Right Out: -0.103+/-0.000

χ^2/NDF : 5547327629.3/18

In: -1.626+/-0.000

χ^2/NDF : 190148710412.5/38

Out: -1.597+/-0.000

χ^2/NDF : 204016443102.8/41

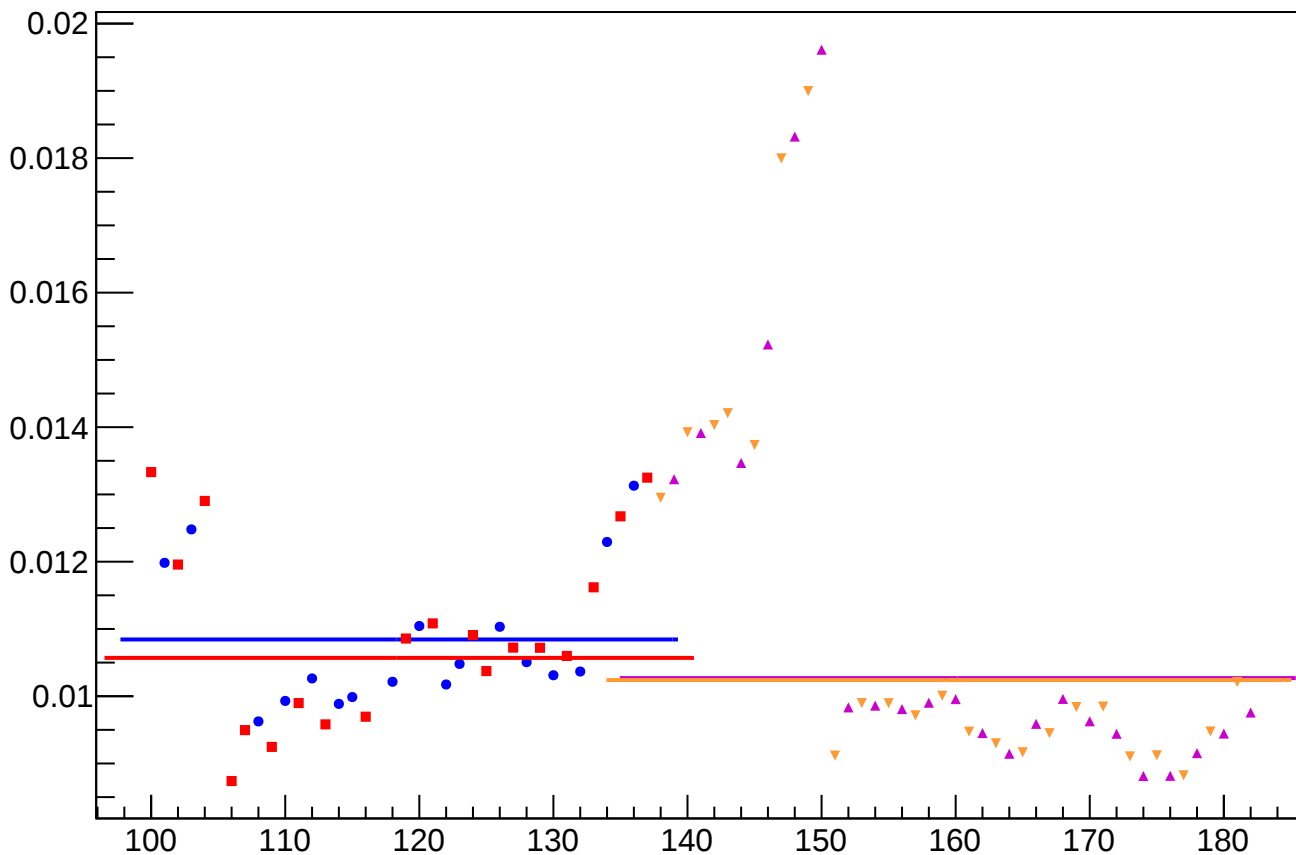
Left In: -2.186+/-0.000

χ^2/NDF : 3360033286.6/21

All: -1.611+/-0.000

χ^2/NDF : 394255304543.3

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 :1254592.4/22

Right Out: 0.011+/-0.000 χ^2/NDF : 178759.8/18

Left In: 0.010+/-0.000 χ^2/NDF :1339822.1/21

Left: 0.010+/-0.000 χ^2/NDF : 2594550.3/44

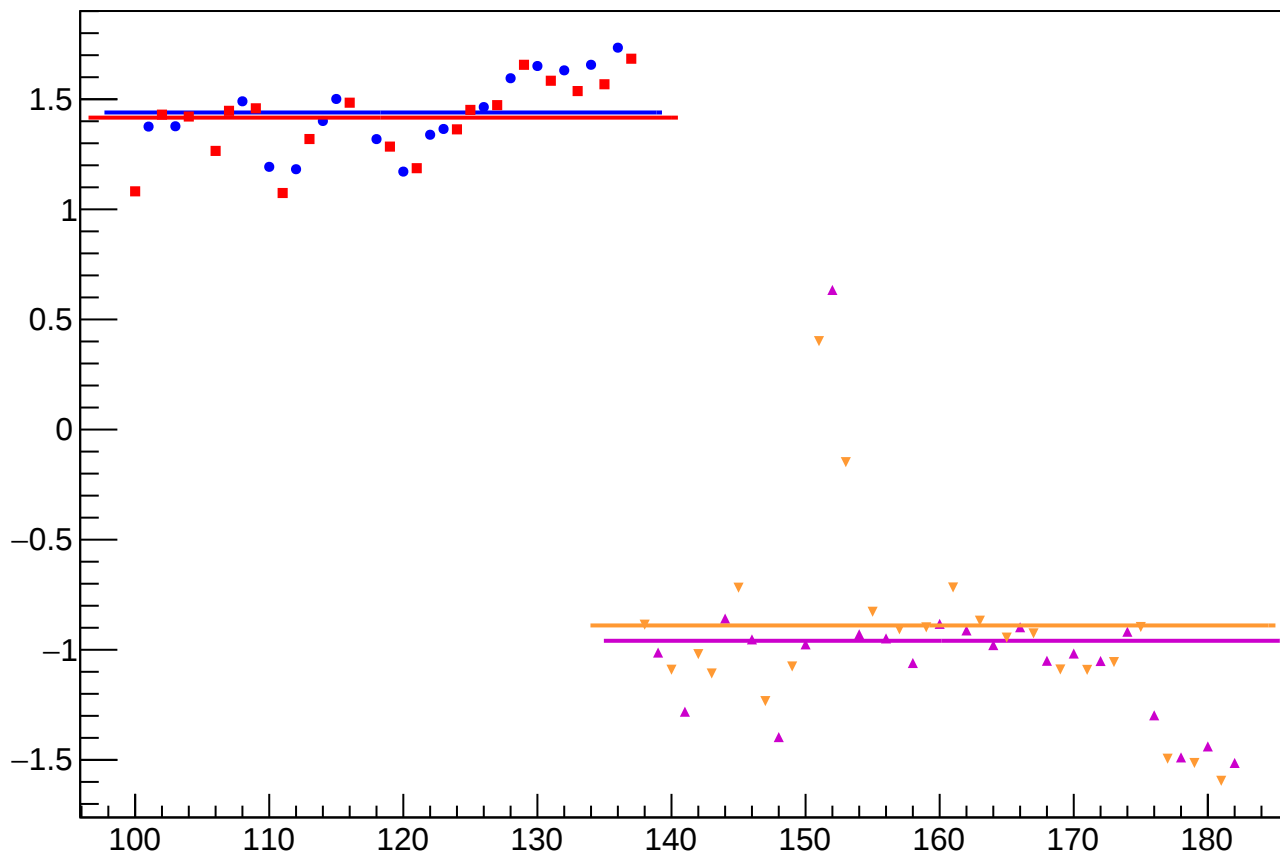
Right: 0.011+/-0.000 χ^2/NDF : 307381.8/35

In: 0.010+/-0.000 χ^2/NDF :1491194.5/38

Out: 0.010+/-0.000 χ^2/NDF :1443117.5/41

All: 0.010+/-0.000 χ^2/NDF : 2936041.2/80

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3439698839.5/16

Left Out: -0.889 $\pm$ 0.000 χ^2 /NDF: 50817187388.8/22

Right Out: 1.416 $\pm$ 0.000 χ^2 /NDF: 2670163204.9/18

Left In: -0.959 $\pm$ 0.000 χ^2 /NDF: 53482530925.1/21

Left: -0.924 $\pm$ 0.000 χ^2 /NDF: 104877818863.5/44

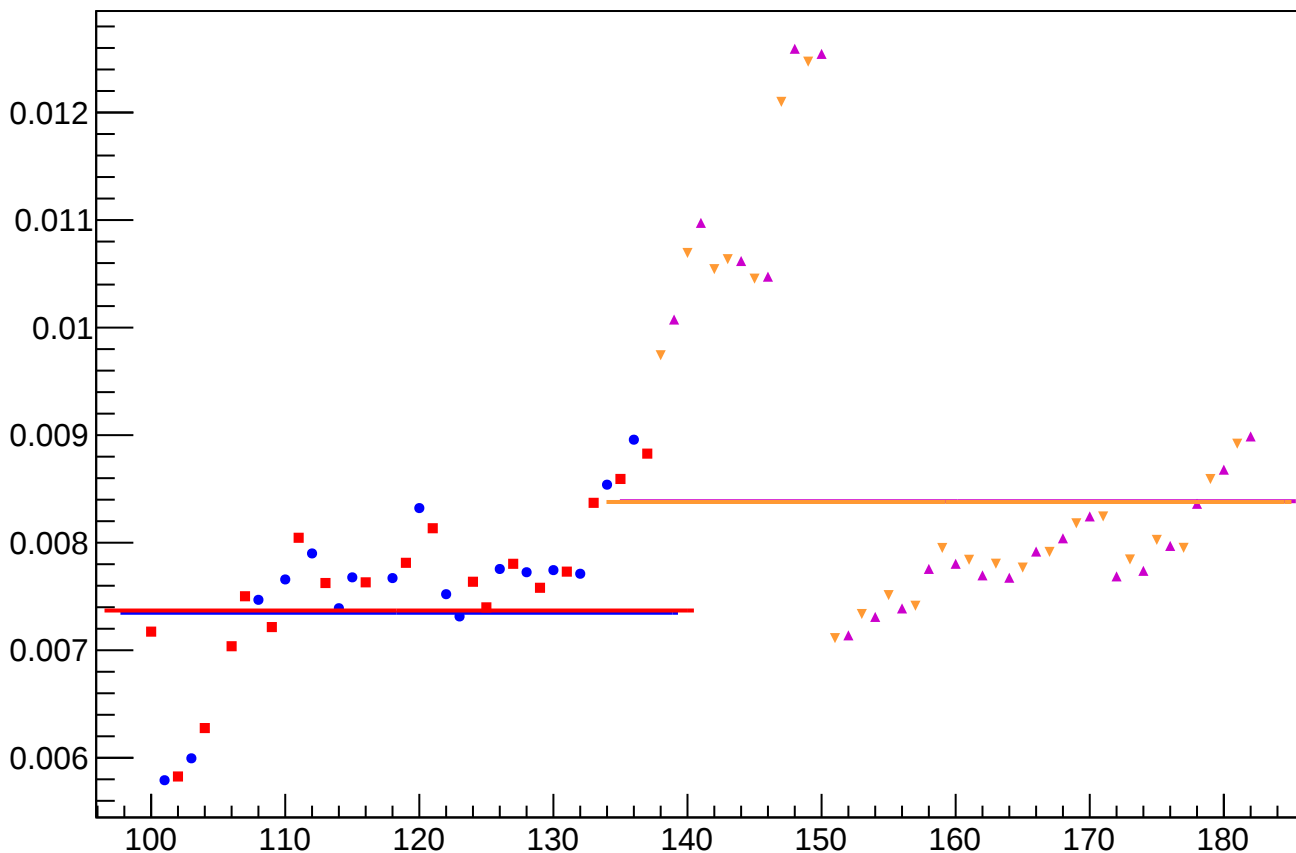
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6143895707.9/35

In: -0.143 $\pm$ 0.000 χ^2 /NDF: 518425334747.1/38

Out: -0.086 $\pm$ 0.000 χ^2 /NDF: 499693834165.5/41

All: -0.114 $\pm$ 0.000 χ^2 /NDF: 1018699992163

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228667.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 763563.7/22

Right Out: 0.007+/-0.000 χ^2/NDF : 172418.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 839468.4/21

Left: 0.008+/-0.000 χ^2/NDF : 1603044.2/44

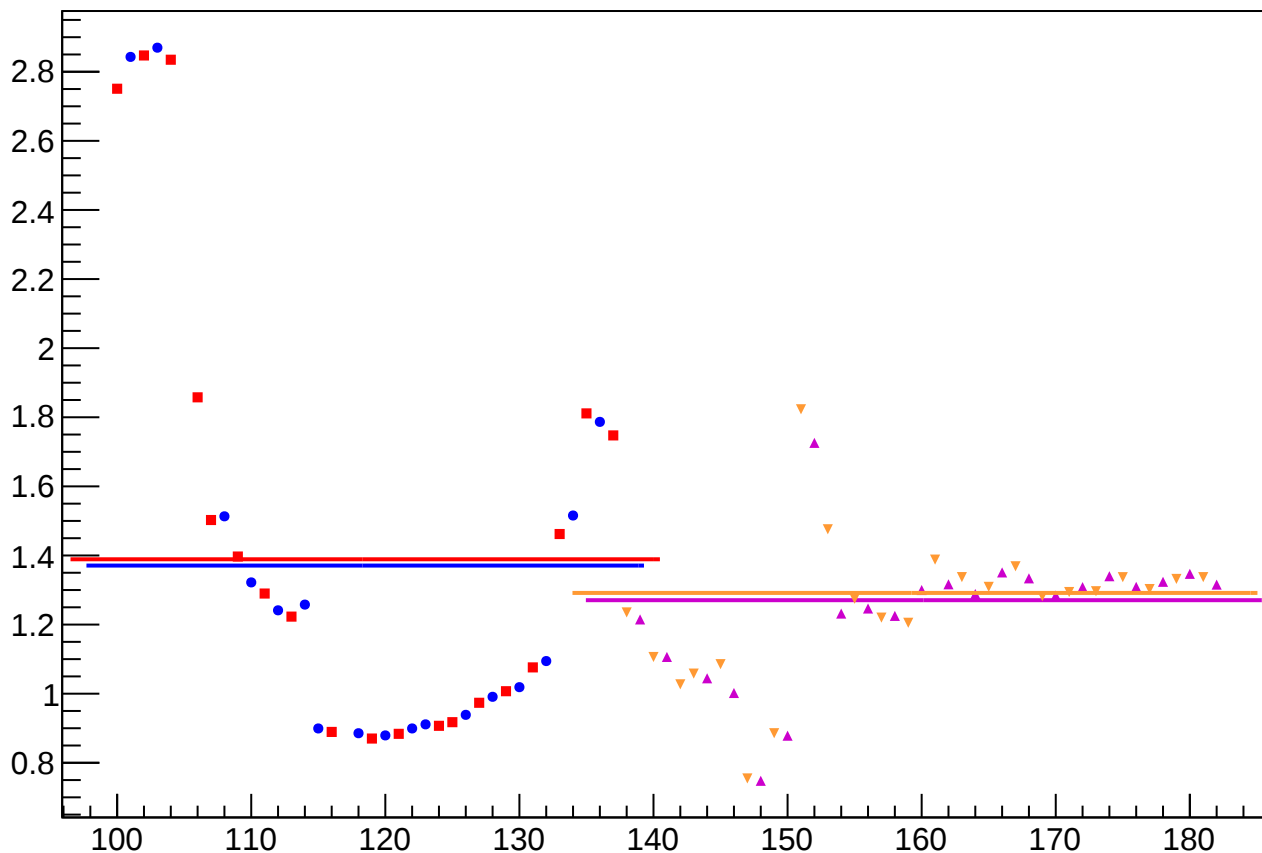
Right: 0.007+/-0.000 χ^2/NDF : 401140.2/35

In: 0.008+/-0.000 χ^2/NDF : 1240650.9/38

Out: 0.008+/-0.000 χ^2/NDF : 1106872.9/41

All: 0.008+/-0.000 χ^2/NDF : 2347535.5/80

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.371+/-0.000 χ^2/NDF : 54119122912.8/16

Left Out: 1.292+/-0.000 χ^2/NDF : 9198085855.5/22

Right Out: 1.389+/-0.000 χ^2/NDF : 49832414351.9/18

Left In: 1.271+/-0.000 χ^2/NDF : 7540307853.0/21

Left: 1.281+/-0.000 χ^2/NDF : 16792739122.0/44

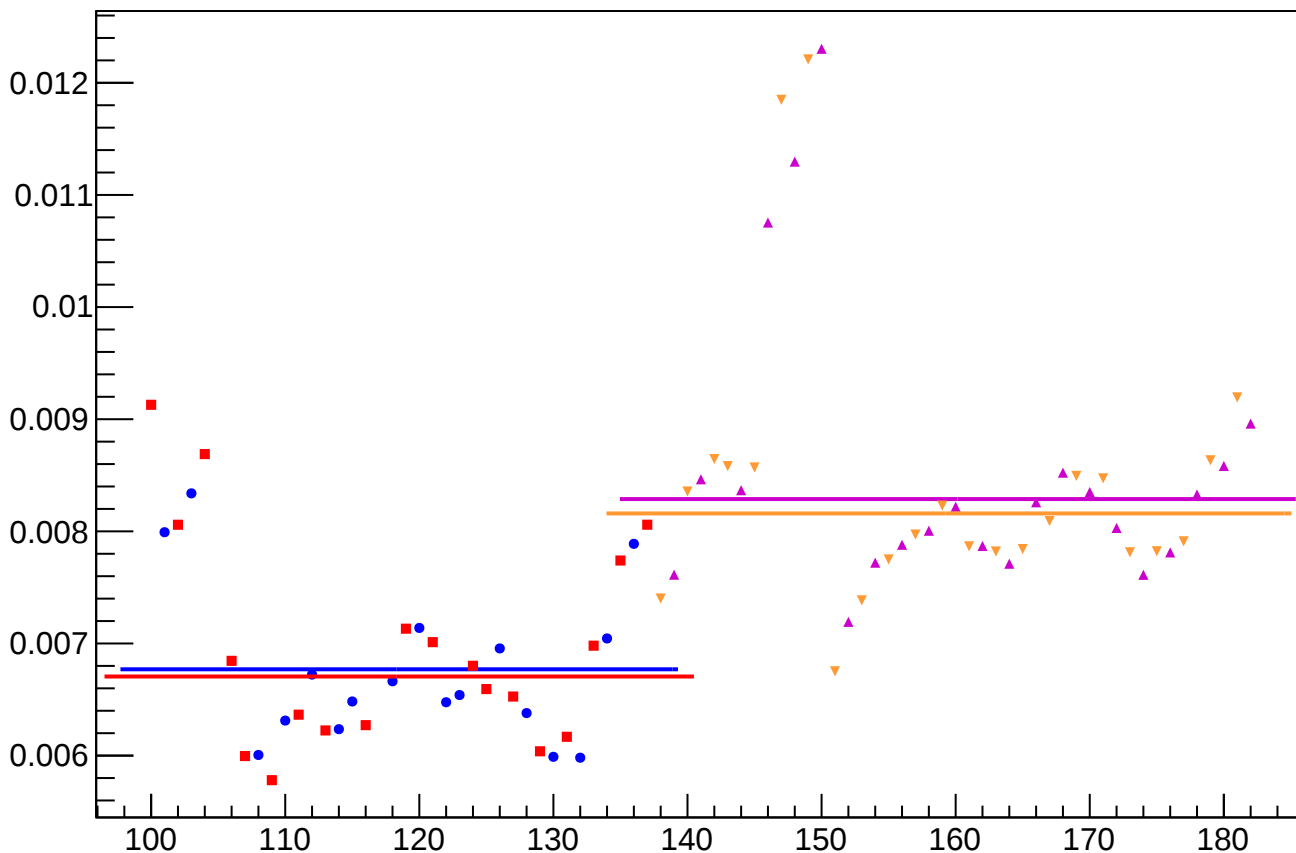
Right: 1.380+/-0.000 χ^2/NDF : 103976218990.2/35

In: 1.308+/-0.000 χ^2/NDF : 62562729752.1/38

Out: 1.329+/-0.000 χ^2/NDF : 59939936174.8/41

All: 1.319+/-0.000 χ^2/NDF : 122587013546.7

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 158743.1/16

Left Out: 0.008+/-0.000 χ^2/NDF : 449654.2/22

Right Out: 0.007+/-0.000 χ^2/NDF : 189225.3/18

Left In: 0.008+/-0.000 χ^2/NDF : 458348.5/21

Left: 0.008+/-0.000 χ^2/NDF : 912028.8/44

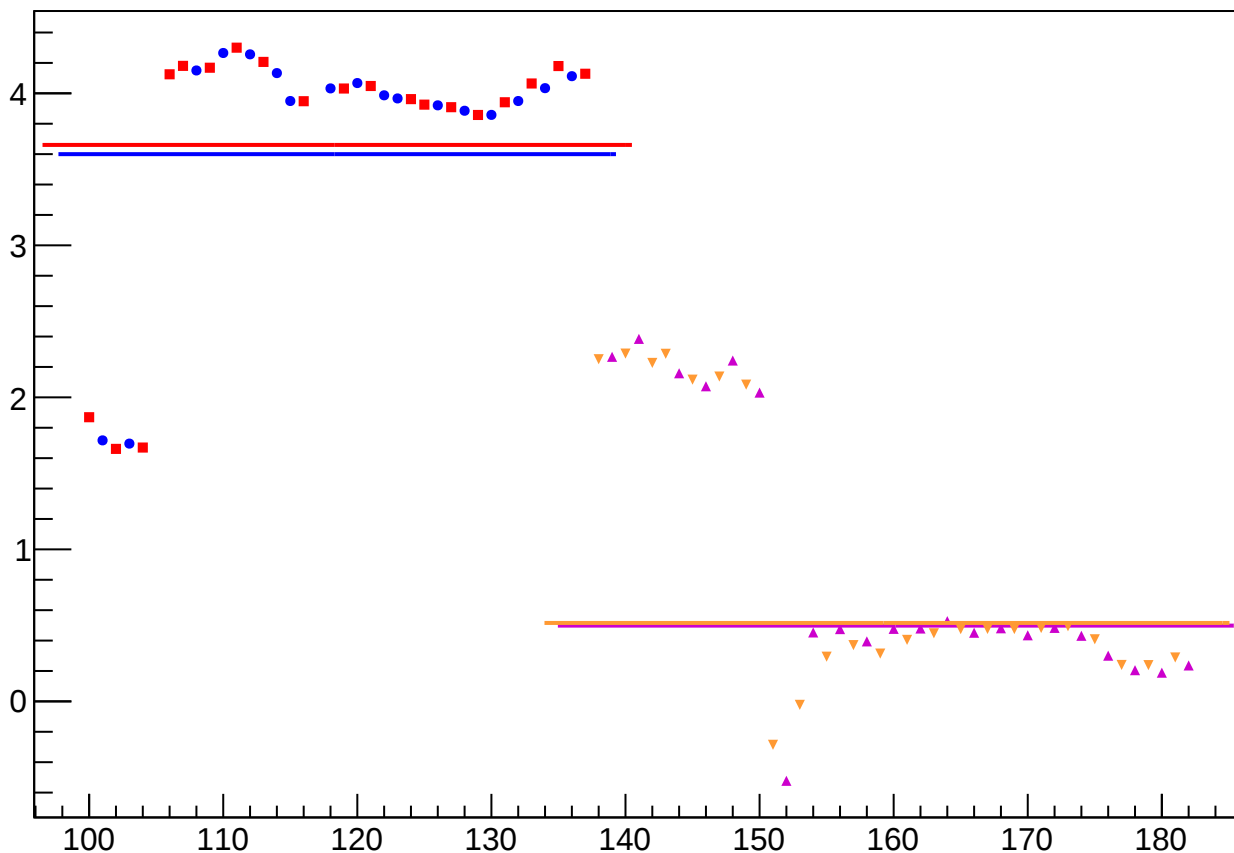
Right: 0.007+/-0.000 χ^2/NDF : 348586.5/35

In: 0.008+/-0.000 χ^2/NDF : 1031531.7/38

Out: 0.008+/-0.000 χ^2/NDF : 1044648.9/41

All: 0.008+/-0.000 χ^2/NDF : 2081369.7/80

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.600+/-0.000 χ^2/NDF : 185703271625.0/16

Left Out: 0.516+/-0.000 χ^2/NDF : 267067402408.3/22

Right Out: 3.661+/-0.000 χ^2/NDF : 192461584002.7/18

Left In: 0.498+/-0.000 χ^2/NDF : 268361950742.5/21

Left: 0.507+/-0.000 χ^2/NDF : 535544267679.4/44

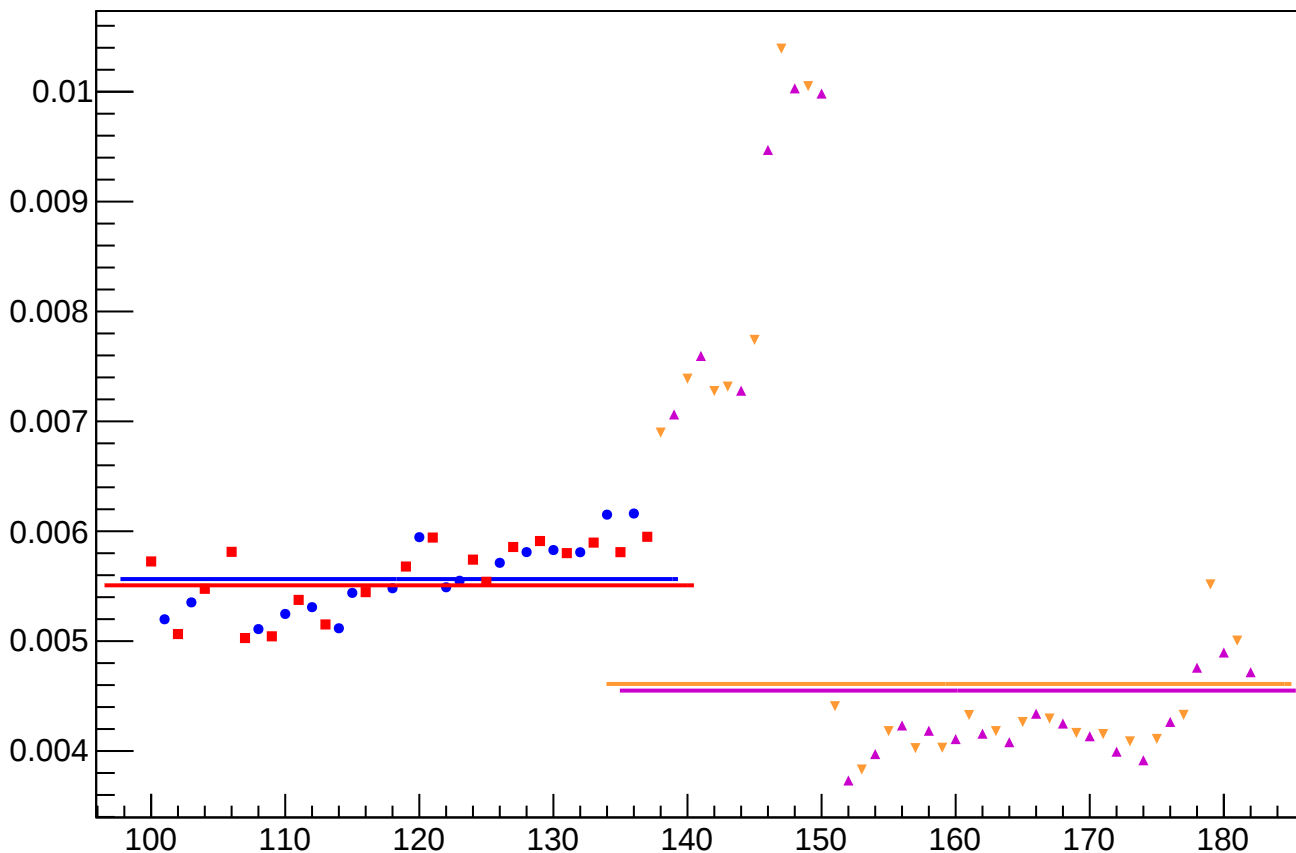
Right: 3.631+/-0.000 χ^2/NDF : 378573403824.4/35

In: 1.193+/-0.000 χ^2/NDF : 2059570056958.1/38

Out: 1.259+/-0.000 χ^2/NDF : 2185070342651.5/41

All: 1.226+/-0.000 χ^2/NDF : 4246750602350.

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 :2075488.1/22

Right Out: 0.006+/-0.000 χ^2/NDF : 52399.9/18

Left In: 0.005+/-0.000 χ^2/NDF :2237176.9/21

Left: 0.005+/-0.000 χ^2/NDF : 4315381.8/44

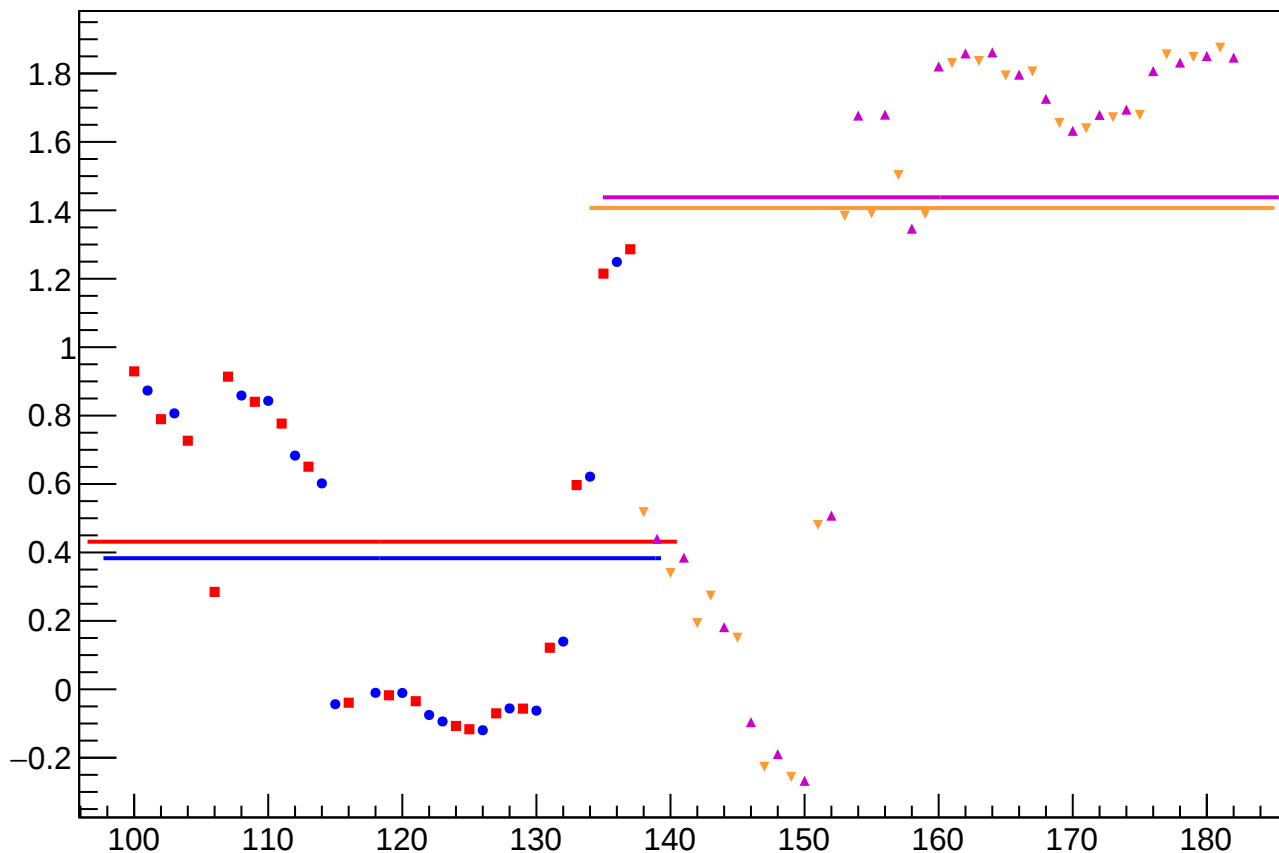
Right: 0.006+/-0.000 χ^2/NDF : 101204.4/35

In: 0.005+/-0.000 χ^2/NDF :2629216.0/38

Out: 0.005+/-0.000 χ^2/NDF :2409043.8/41

All: 0.005+/-0.000 χ^2/NDF : 5040237.5/80

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.383+/-0.000

χ^2/NDF : 7098148199.8/16

Left: 1.422+/-0.000 χ^2/NDF : 101173406677.9/44

Right: 0.408+/-0.000 χ^2/NDF : 13788539120.9/35

Left Out: 1.407+/-0.000

χ^2/NDF : 47868162644.6/22

In: 1.238+/-0.000 χ^2/NDF : 88865273241.2/38

Right Out: 0.431+/-0.000

χ^2/NDF : 6652460982.8/18

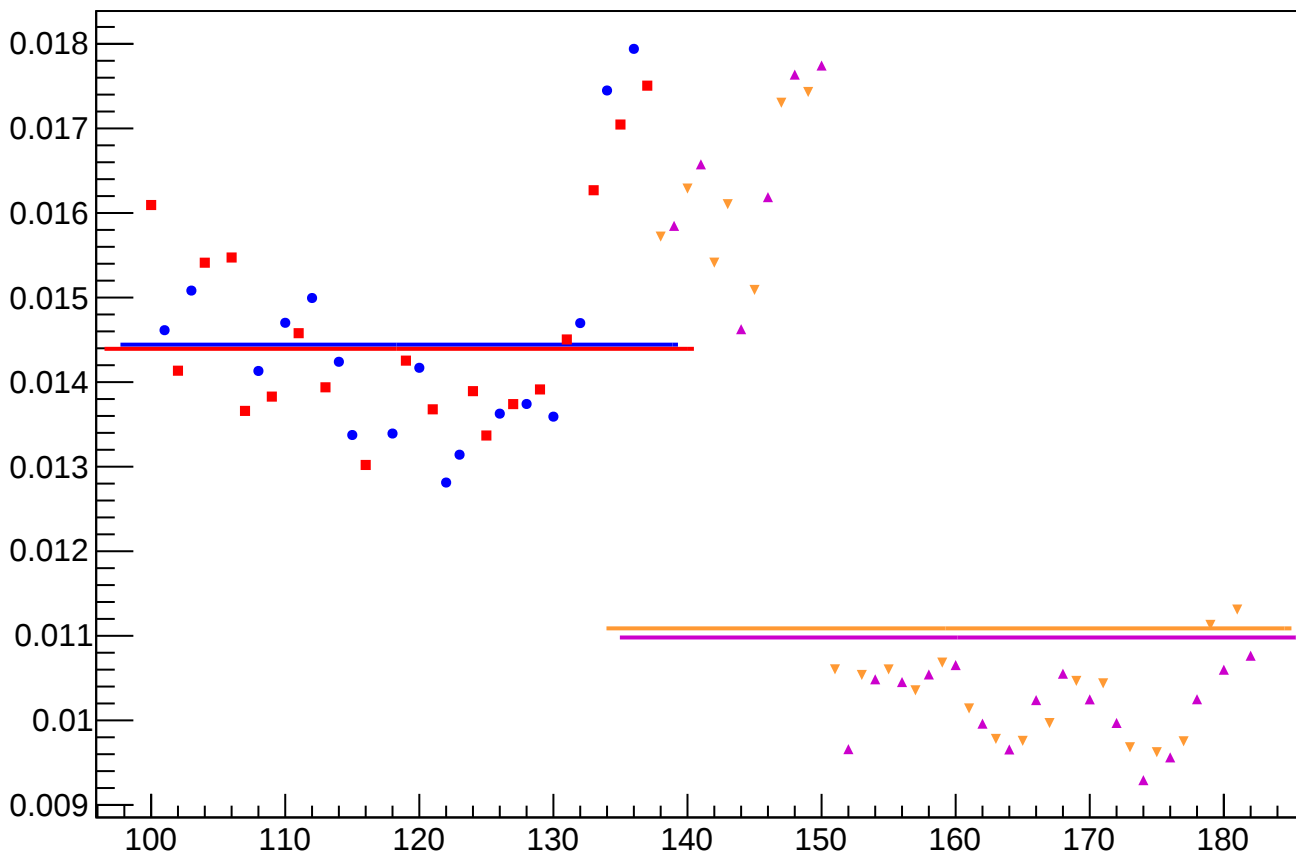
Out: 1.213+/-0.000 χ^2/NDF : 79996454041.6/41

Left In: 1.438+/-0.000

χ^2/NDF : 53239668389.6/21

All: 1.225+/-0.000 χ^2/NDF : 168912285180.2

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 109417.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1207020.3/22

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 74186.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1264826.8/21

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2473417.6/44

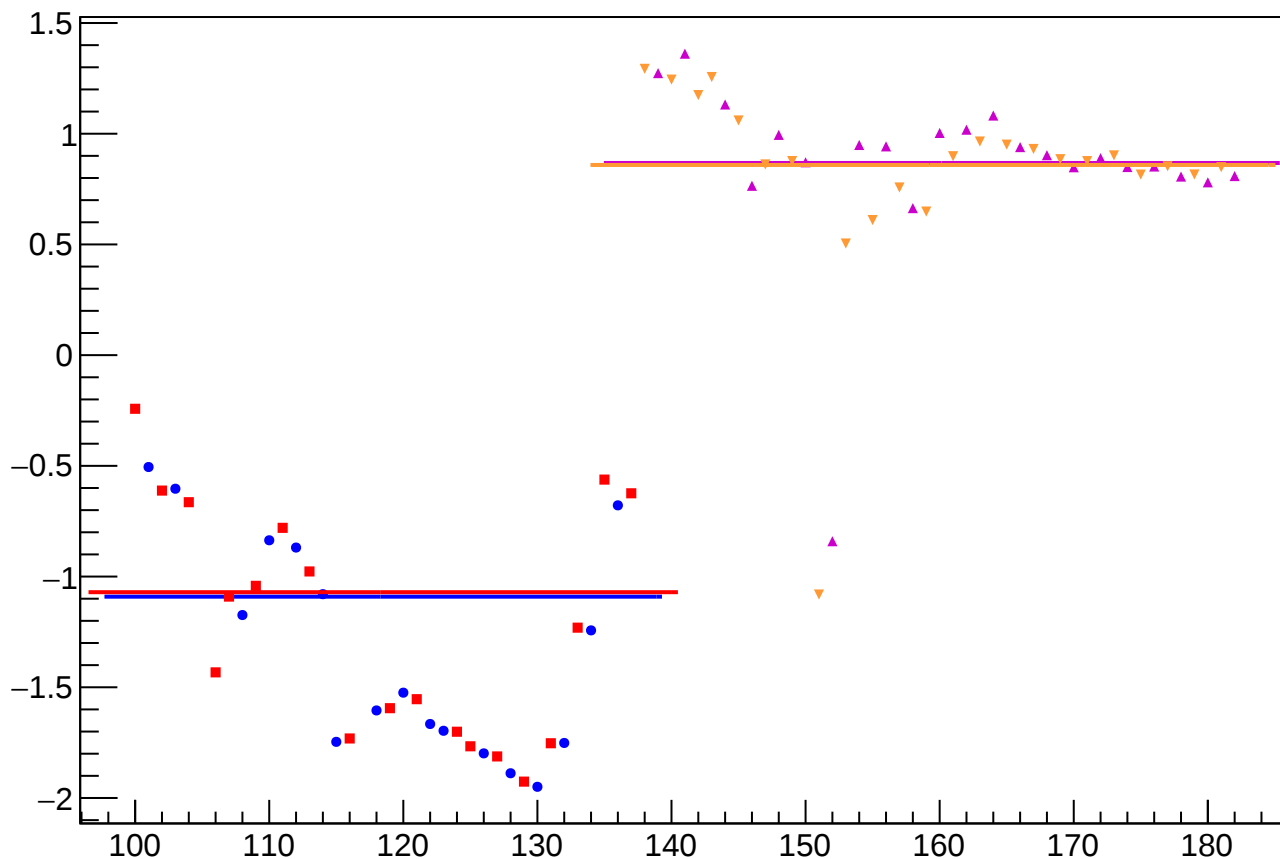
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 183683.0/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:1989061.8/38

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1866441.4/41

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3857414.1/80

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.091 ± 0.000 χ^2/NDF : 55542430282.4/16

Left Out: 0.859 ± 0.000 χ^2/NDF : 125135145252.3/22

Right Out: -1.071 ± 0.000 χ^2/NDF : 46725373904.4/18

Left In: 0.868 ± 0.000 χ^2/NDF : 147008218973.3/21

Left: 0.863 ± 0.000 χ^2/NDF : 272190574305.0/44

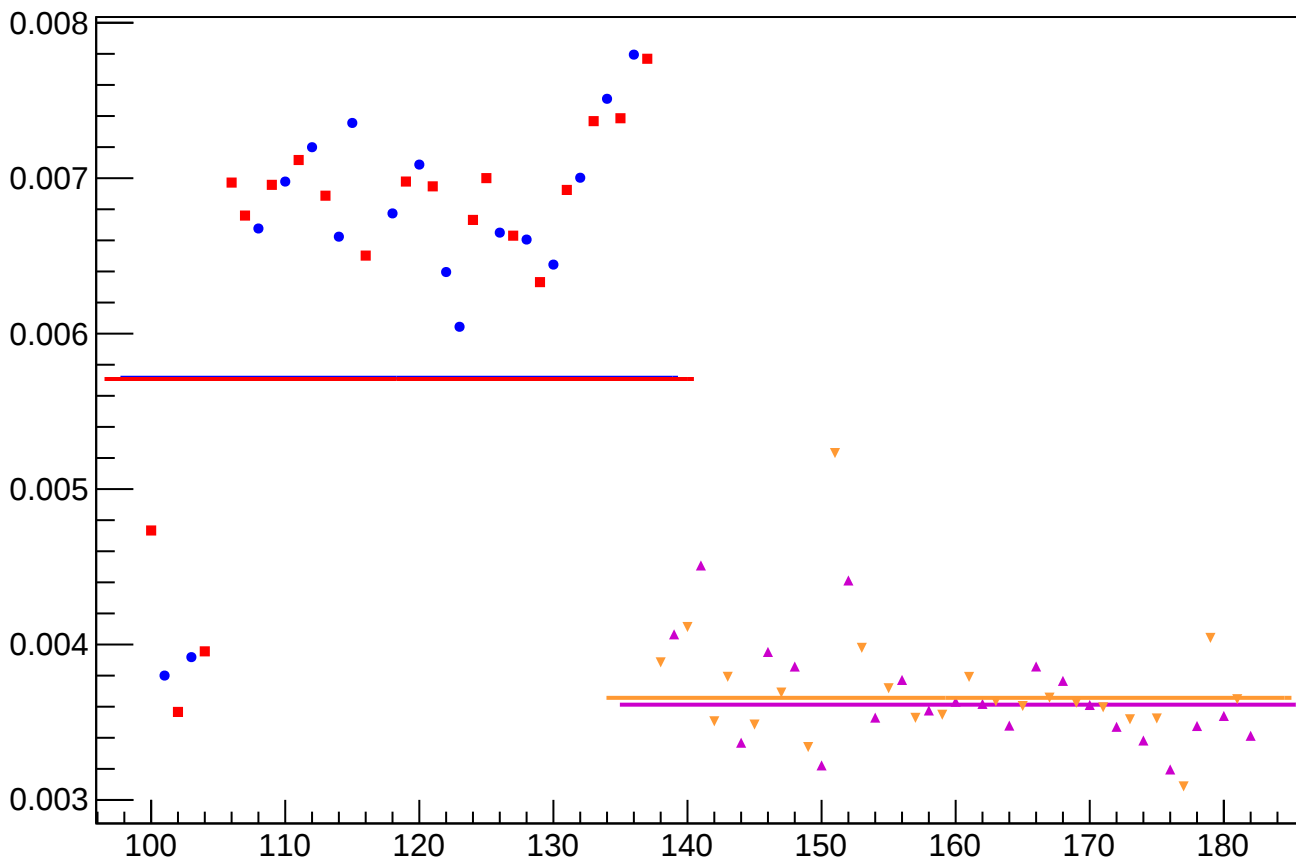
Right: -1.080 ± 0.000 χ^2/NDF : 102305472219.1/35

In: 0.608 ± 0.000 χ^2/NDF : 804615172947.4/38

Out: 0.593 ± 0.000 χ^2/NDF : 776873532720.8/41

All: 0.600 ± 0.000 χ^2/NDF : 1581643014493.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 837929.9/16

Left Out: 0.004+/-0.000 χ^2/NDF :235222.5/22

Right Out: 0.006+/-0.000 χ^2/NDF : 921337.6/18

Left In: 0.004+/-0.000 χ^2/NDF :225104.3/21

Left: 0.004+/-0.000 χ^2/NDF : 462612.9/44

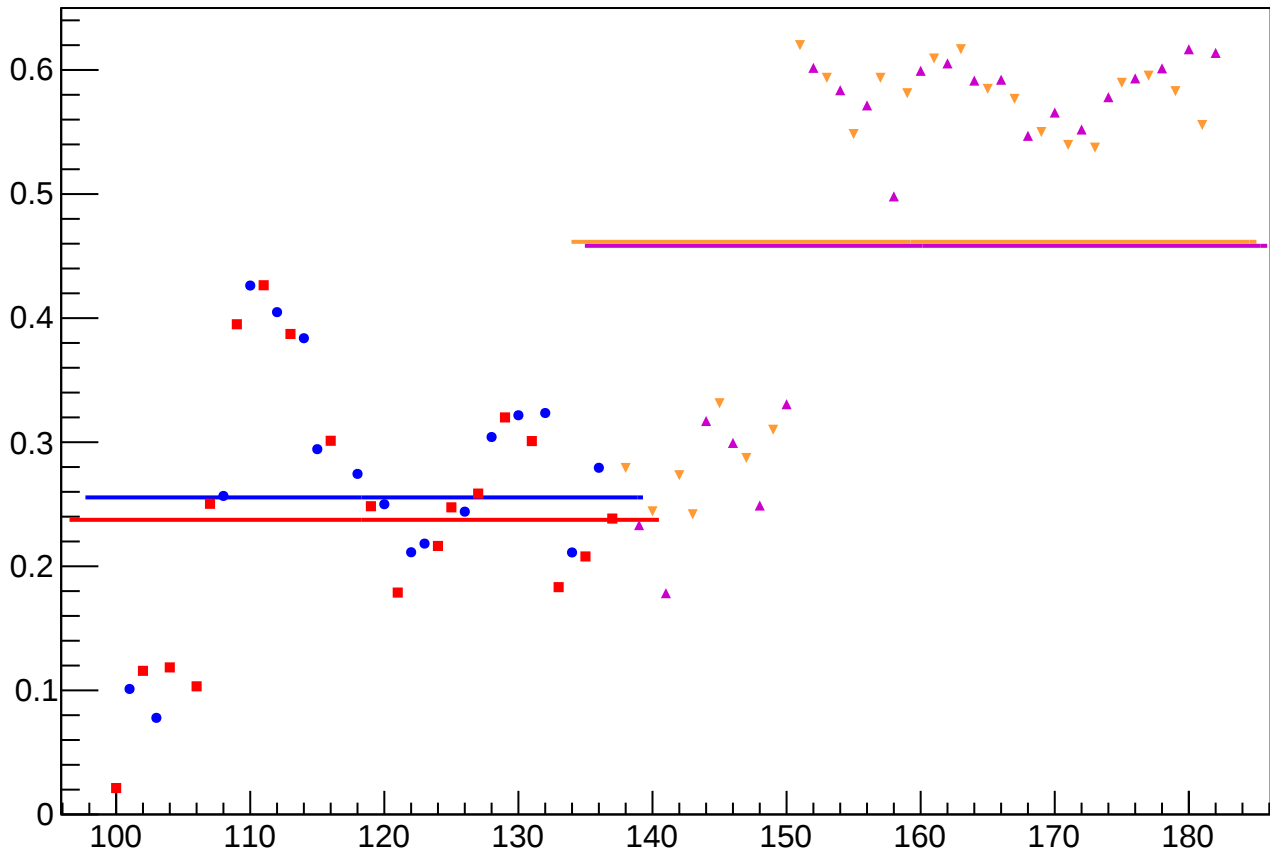
Right: 0.006+/-0.000 χ^2/NDF : 1759279.4/35

In: 0.004+/-0.000 χ^2/NDF :2451479.6/38

Out: 0.004+/-0.000 χ^2/NDF :2524049.1/41

All: 0.004+/-0.000 χ^2/NDF : 4978633.9/80

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21303879000.5/16

Left Out: 0.462+/-0.000 χ^2/NDF : 97939769820.9/22

Right Out: 0.237+/-0.000 χ^2/NDF : 26048163947.8/18

Left In: 0.458+/-0.000 χ^2/NDF : 103965789095.6/21

Left: 0.460+/-0.000 χ^2/NDF : 201927809851.5/44

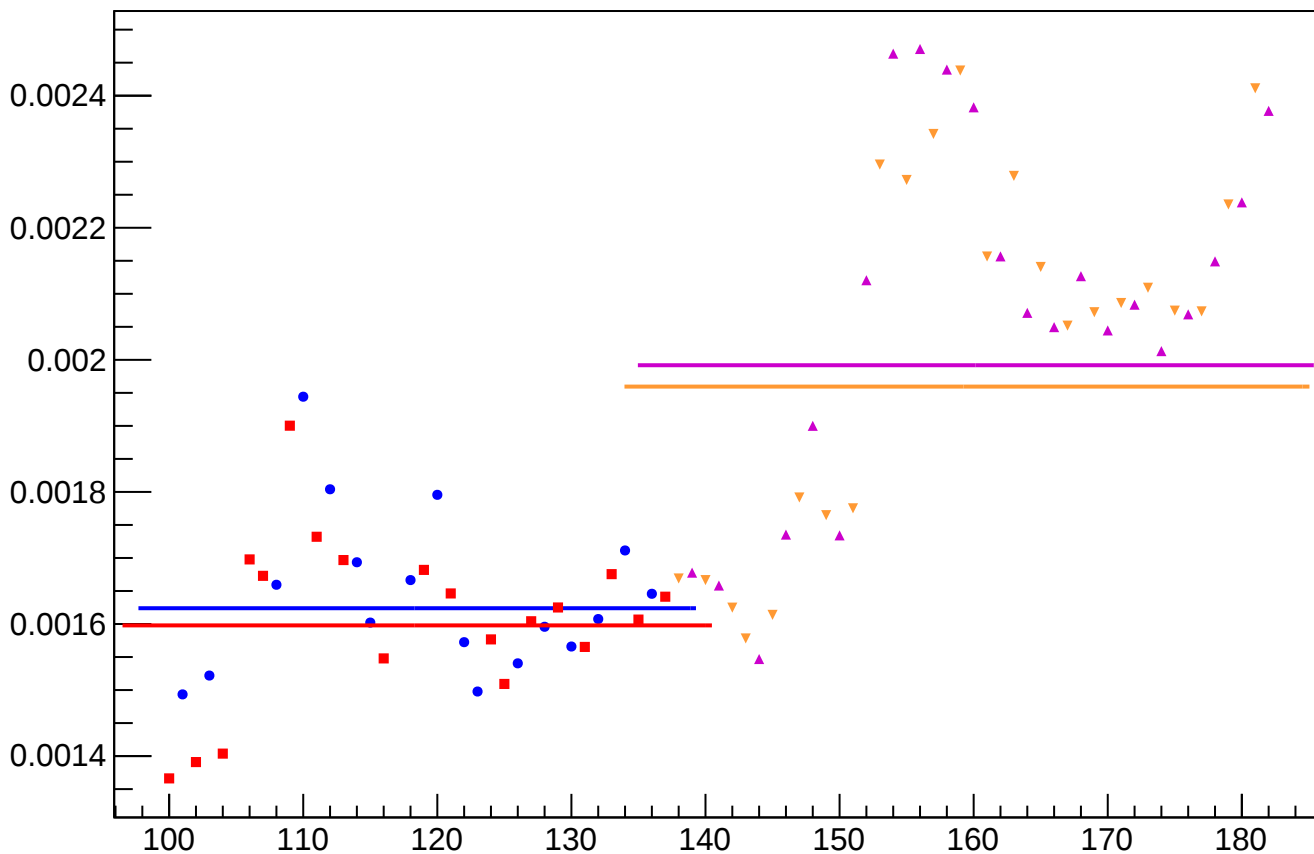
Right: 0.246+/-0.000 χ^2/NDF : 47770756724.0/35

In: 0.383+/-0.000 χ^2/NDF : 188410811379.8/38

Out: 0.376+/-0.000 χ^2/NDF : 208296413739.8/41

All: 0.380+/-0.000 χ^2/NDF : 396892971971.0

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 : 655116.5/22

Right Out: 0.002+/-0.000 χ^2/NDF : 90592.9/18

Left In: 0.002+/-0.000 χ^2/NDF : 646119.7/21

Left: 0.002+/-0.000 χ^2/NDF : 1305709.4/44

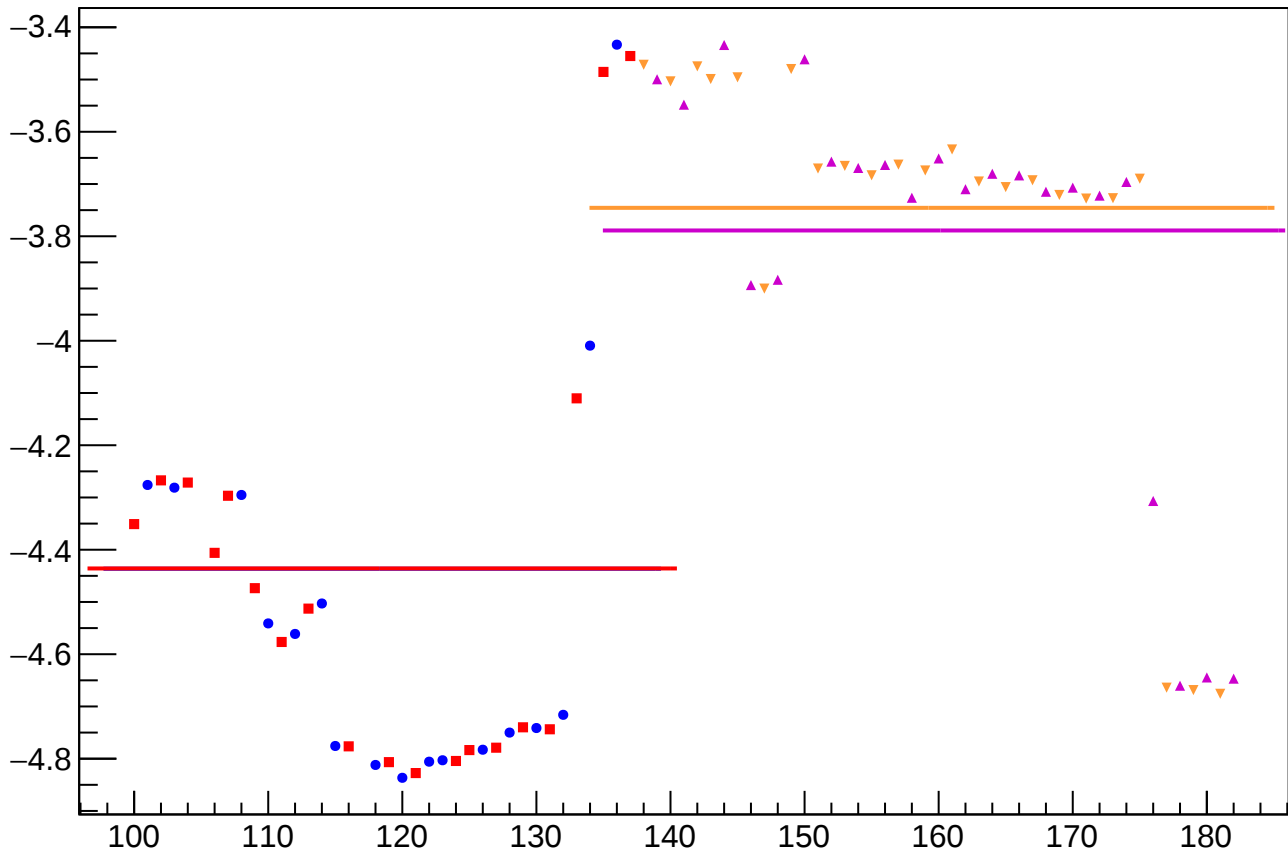
Right: 0.002+/-0.000 χ^2/NDF : 144677.8/35

In: 0.002+/-0.000 χ^2/NDF : 1114258.7/38

Out: 0.002+/-0.000 χ^2/NDF : 1184879.0/41

All: 0.002+/-0.000 χ^2/NDF : 2307241.9/80

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.436 $\pm$ 0.000 χ^2/NDF : 392479534987.2/16

Left Out: -3.746 $\pm$ 0.000 χ^2/NDF : 432929927123.1/22

Right Out: -4.436 $\pm$ 0.000 χ^2/NDF : 324942318404.0/18

Left In: -3.789 $\pm$ 0.000 χ^2/NDF : 419632818690.1/21

Left: -3.767 $\pm$ 0.000 χ^2/NDF : 855939619212.7/44

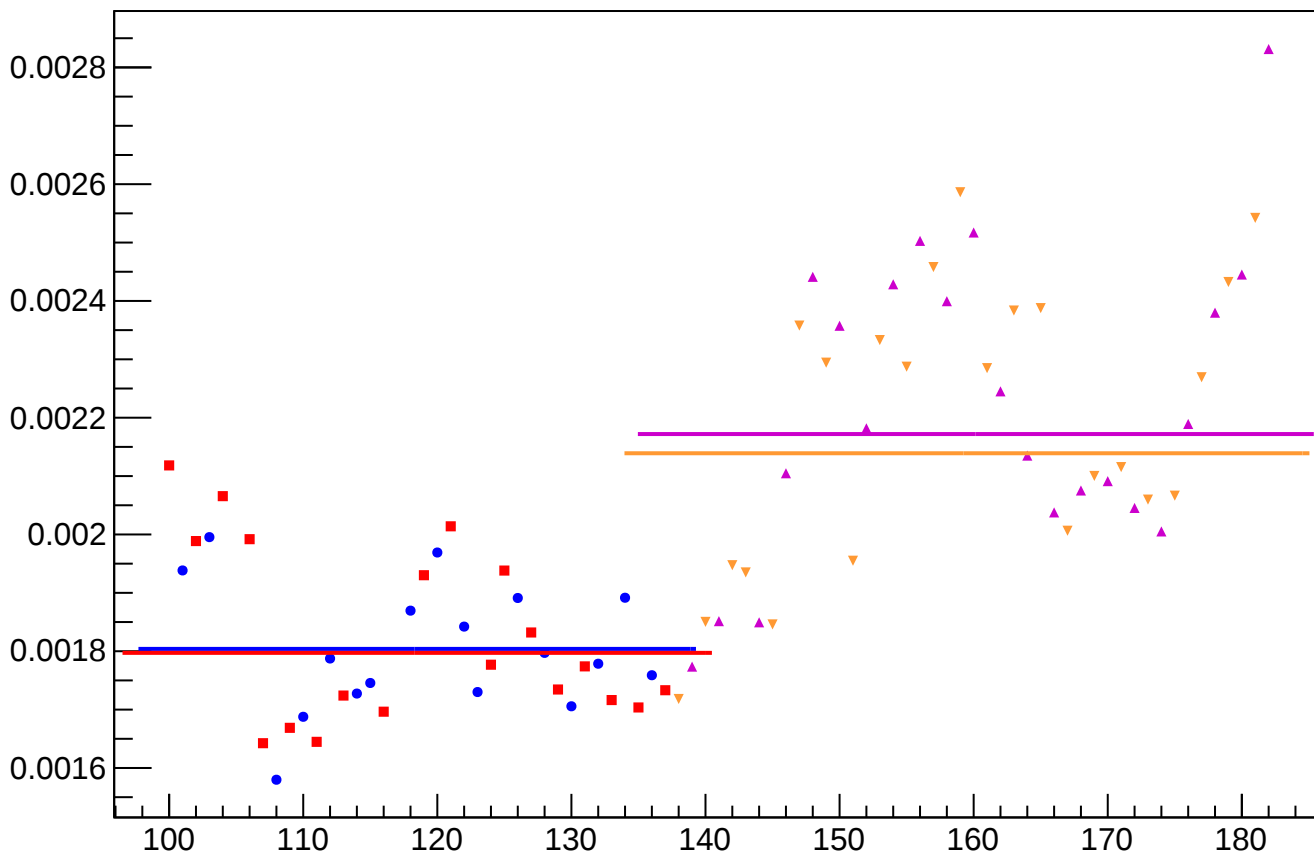
Right: -4.436 $\pm$ 0.000 χ^2/NDF : 717422111284.2/35

In: -4.023 $\pm$ 0.000 χ^2/NDF : 1345277929392.4/38

Out: -3.998 $\pm$ 0.000 χ^2/NDF : 1399542447312.7/41

All: -4.010 $\pm$ 0.000 χ^2/NDF : 2746643823944

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 :420279.8/22

Right Out: 0.002+/-0.000 χ^2/NDF : 80681.9/18

Left In: 0.002+/-0.000 χ^2/NDF :429640.5/21

Left: 0.002+/-0.000 χ^2/NDF : 853819.3/44

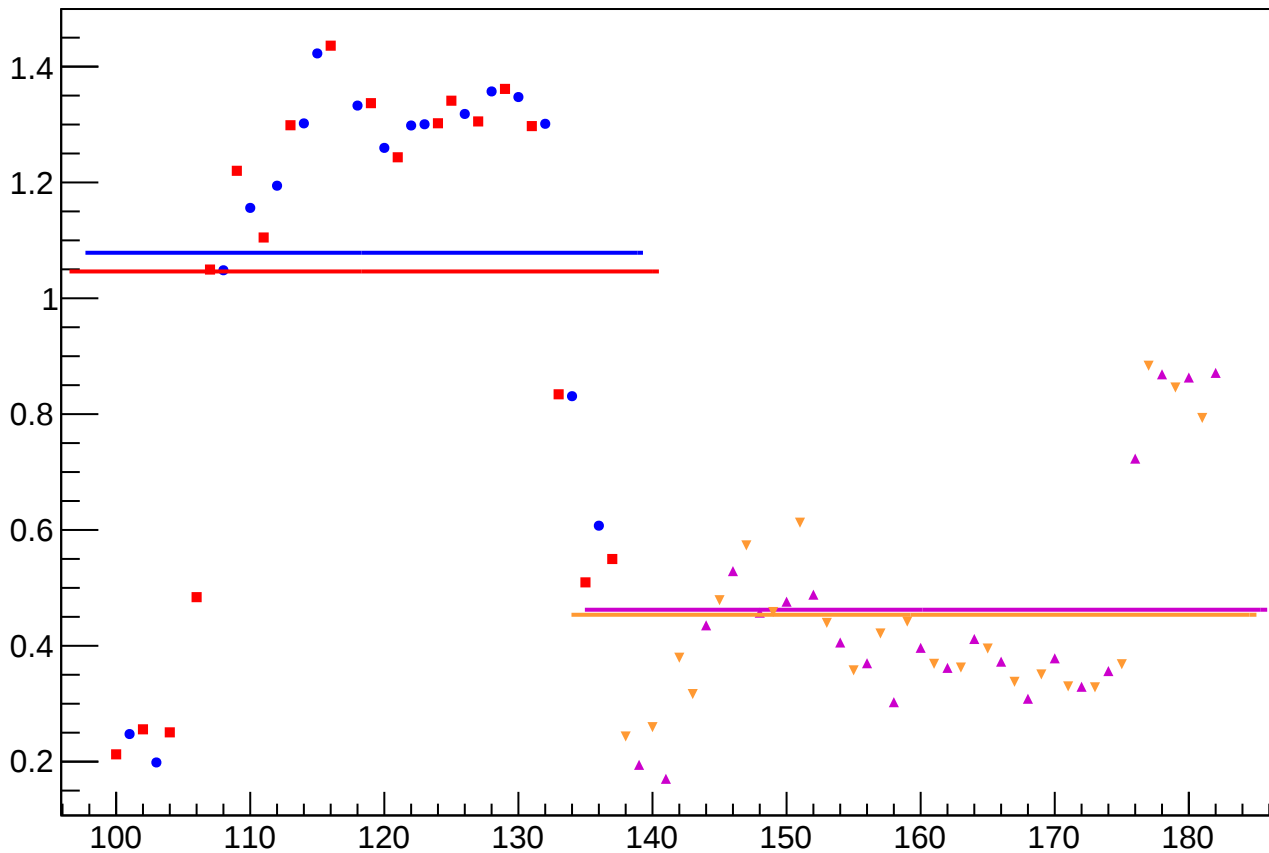
Right: 0.002+/-0.000 χ^2/NDF : 128836.7/35

In: 0.002+/-0.000 χ^2/NDF :822213.8/38

Out: 0.002+/-0.000 χ^2/NDF :815793.8/41

All: 0.002+/-0.000 χ^2/NDF : 1641448.4/80

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.079 $\pm$ 0.000 χ^2 /NDF: 17504335724.9/16

Left Out: 0.454 $\pm$ 0.000 χ^2 /NDF: 6356184124.6/22

Right Out: 1.046 $\pm$ 0.000 χ^2 /NDF: 19655971884.7/18

Left In: 0.462 $\pm$ 0.000 χ^2 /NDF: 7777311717.1/21

Left: 0.458 $\pm$ 0.000 χ^2 /NDF: 14140852992.4/44

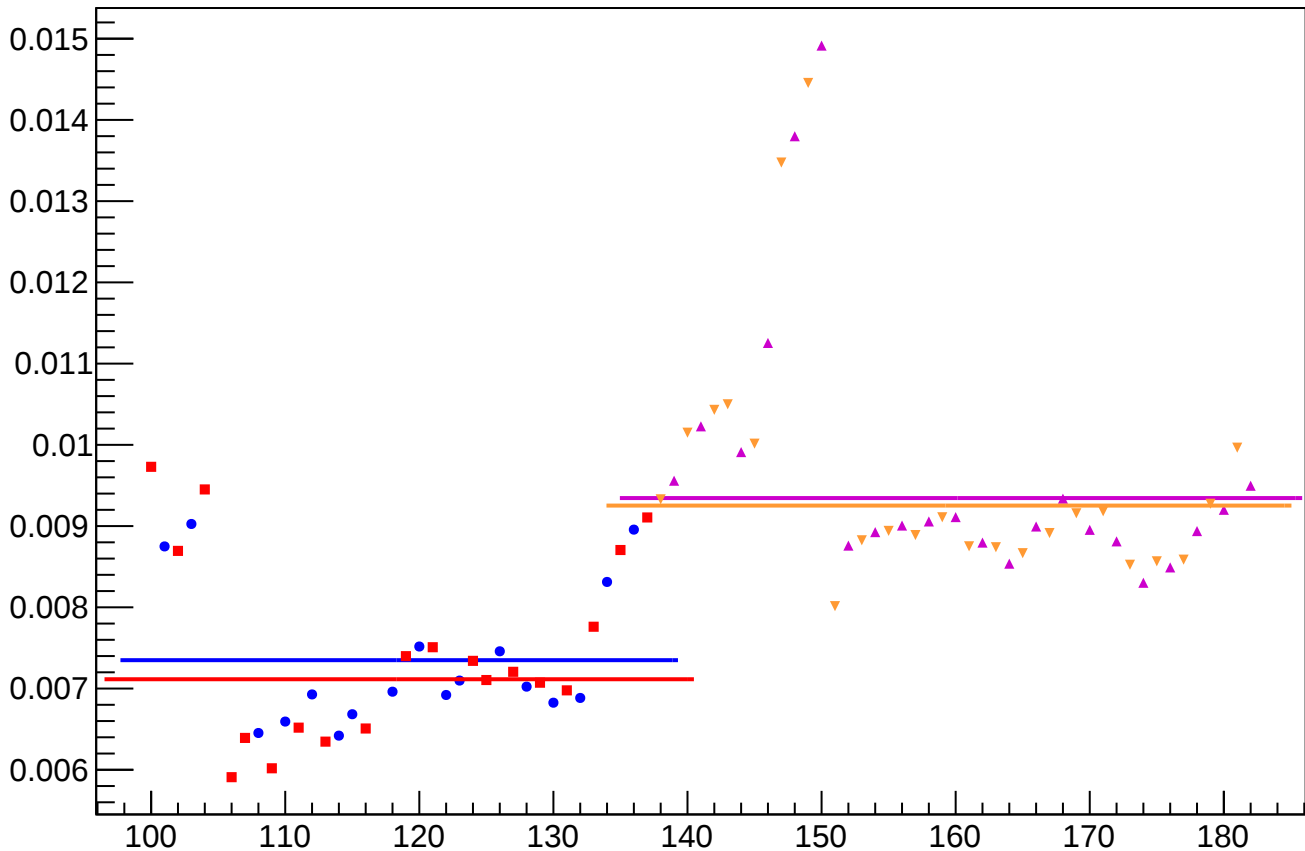
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37227658553.8/35

In: 0.702 $\pm$ 0.000 χ^2 /NDF: 53564608546.0/38

Out: 0.696 $\pm$ 0.000 χ^2 /NDF: 54577303310.0/41

All: 0.699 $\pm$ 0.000 χ^2 /NDF: 108148974030.3

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 : 514139.6/22

Right Out: 0.007+/-0.000 χ^2/NDF : 259361.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 556308.9/21

Left: 0.009+/-0.000 χ^2/NDF : 1072118.7/44

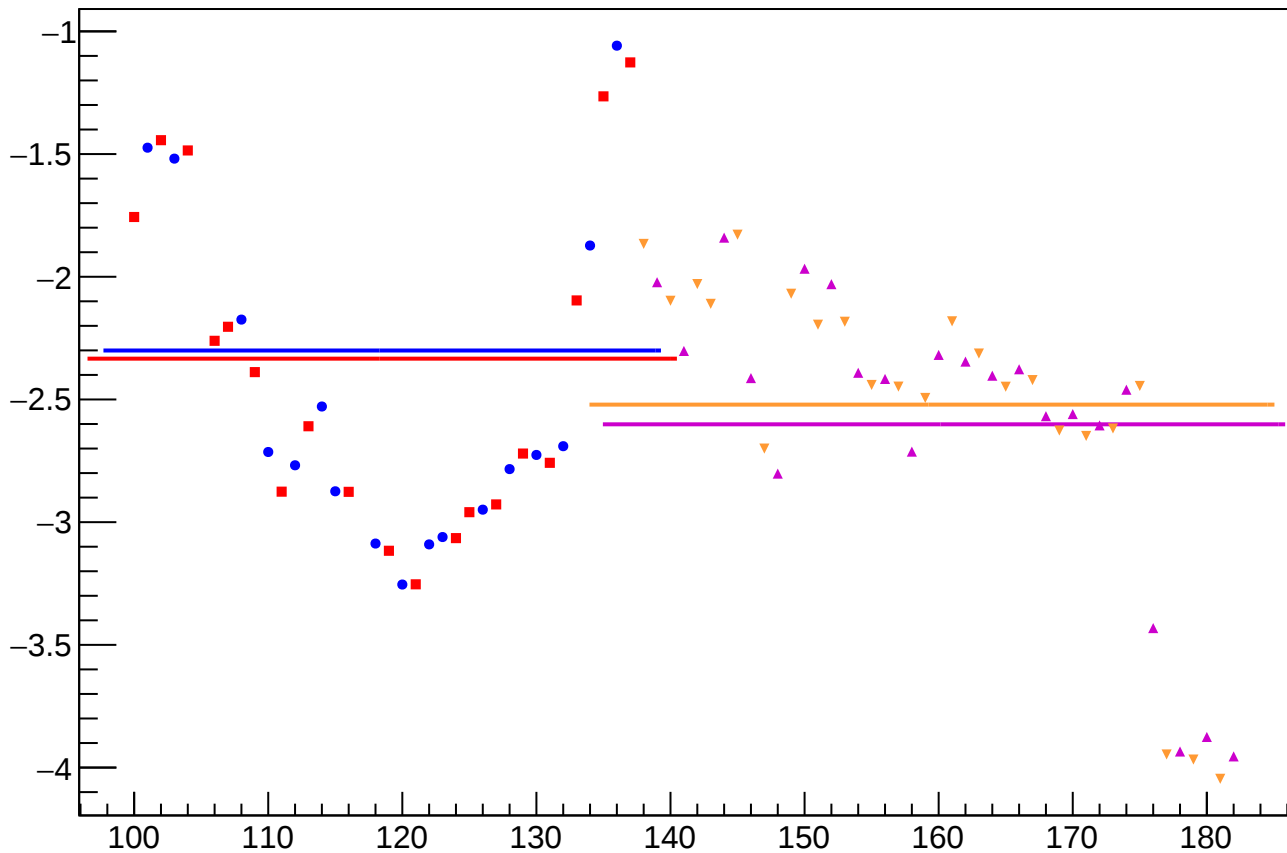
Right: 0.007+/-0.000 χ^2/NDF : 447348.1/35

In: 0.009+/-0.000 χ^2/NDF : 1330210.7/38

Out: 0.008+/-0.000 χ^2/NDF : 1516729.4/41

All: 0.008+/-0.000 χ^2/NDF : 2858475.4/80

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.300+/-0.000 χ^2/NDF : 73601400403.2/16

Left Out: -2.521+/-0.000 χ^2/NDF : 79905572730.3/22

Right Out: -2.334+/-0.000 χ^2/NDF : 64343197509.4/18

Left In: -2.601+/-0.000 χ^2/NDF : 74660749434.8/21

Left: -2.560+/-0.000 χ^2/NDF : 155292396929.6/44

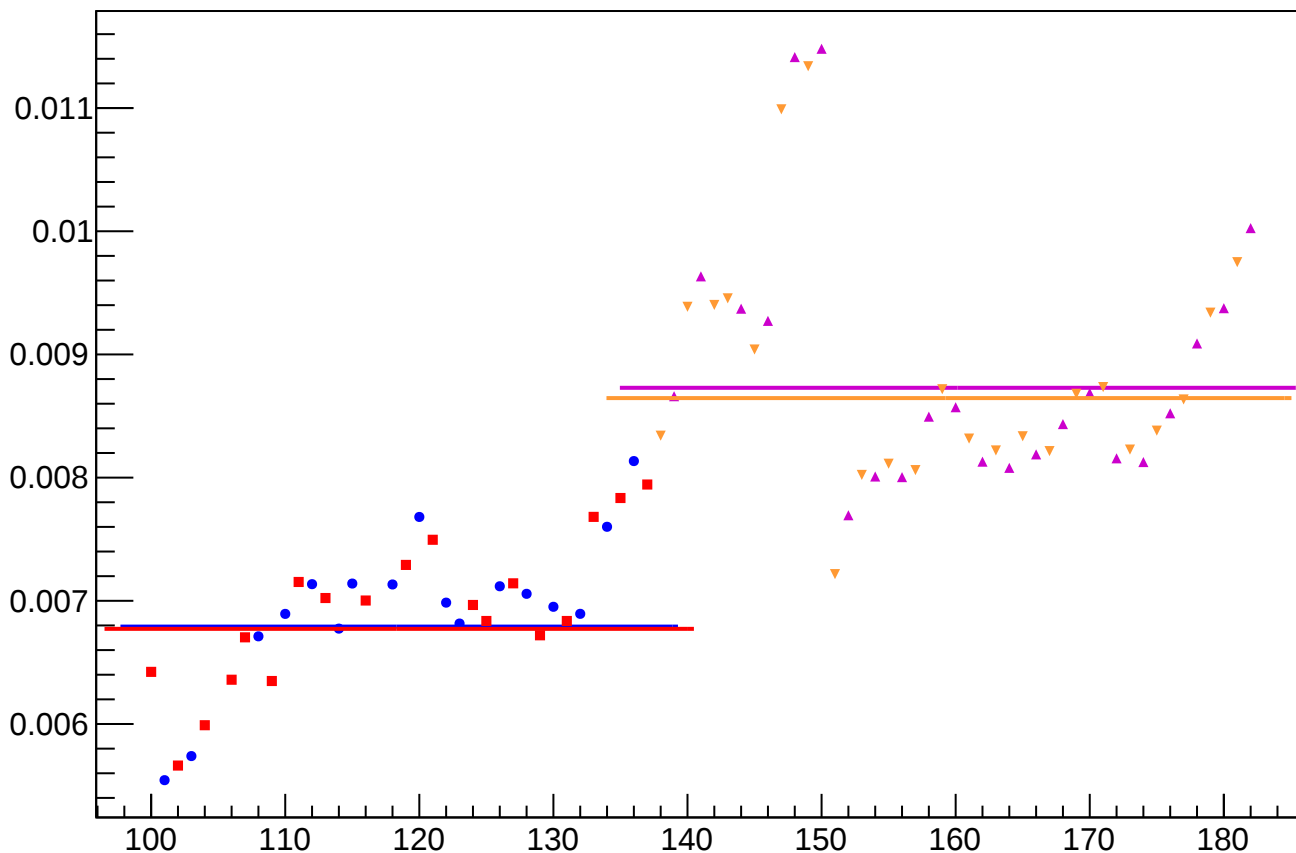
Right: -2.318+/-0.000 χ^2/NDF : 138026475465.9/35

In: -2.483+/-0.000 χ^2/NDF : 156135000218.6/38

Out: -2.446+/-0.000 χ^2/NDF : 147475533335.5/41

All: -2.464+/-0.000 χ^2/NDF : 303864719734.4

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 165798.3/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:325857.0/22

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 123254.7/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:349095.6/21

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 676525.2/44

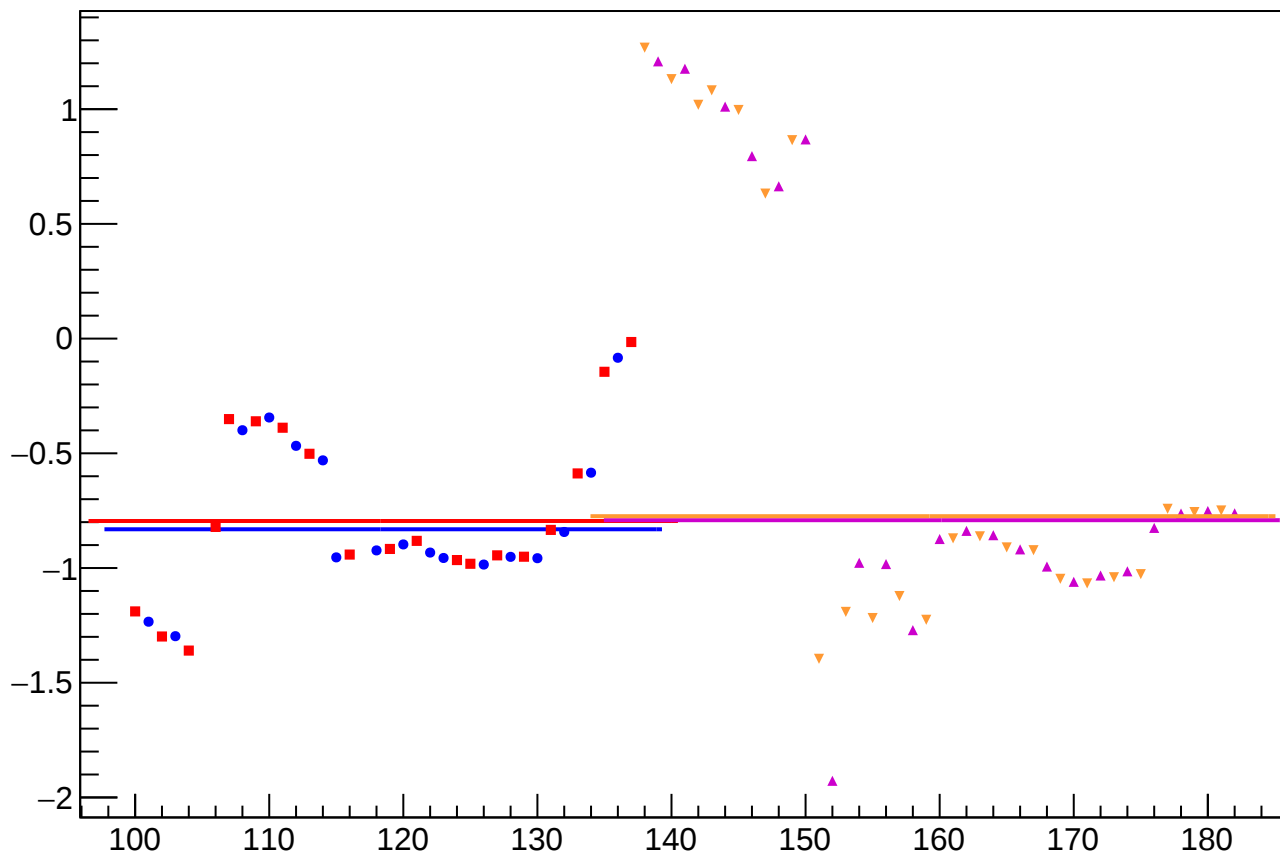
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 289102.2/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:1168800.9/38

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1094595.3/41

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2265259.9/80

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6684927415.2/16

Left: -0.783+/-0.000

χ^2/NDF : 241967659925.6/44

Left Out: -0.774+/-0.000

χ^2/NDF : 118494605574.5/22

Right: -0.813+/-0.000

χ^2/NDF : 14539681637.1/35

Right Out: -0.795+/-0.000

χ^2/NDF : 7817248130.7/18

In: -0.798+/-0.000

χ^2/NDF : 130190069954.1/38

Out: -0.778+/-0.000

χ^2/NDF : 126333319456.8/41

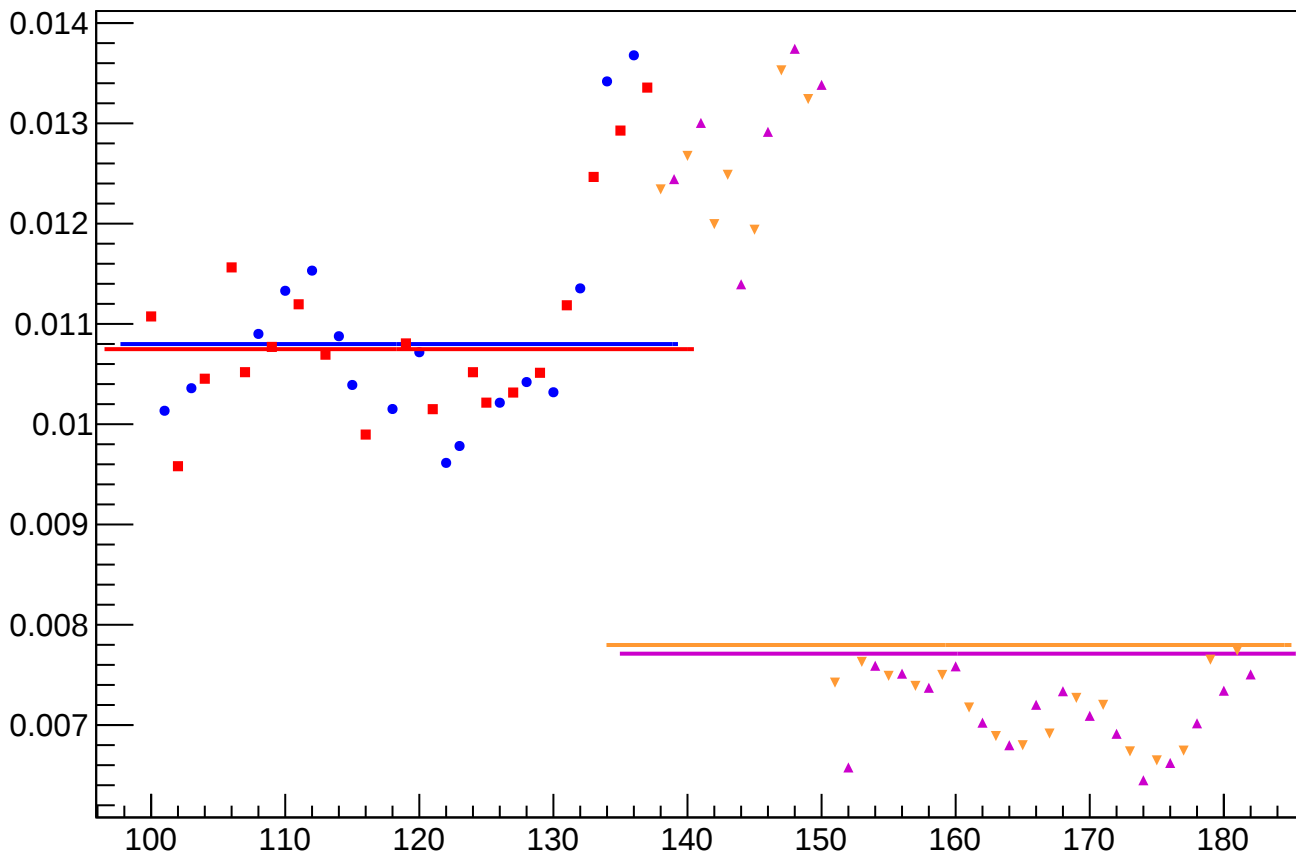
Left In: -0.792+/-0.000

χ^2/NDF : 123432420164.3/21

All: -0.788+/-0.000

χ^2/NDF : 256591574817.1

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 :1676322.6/22

Right Out: 0.011+/-0.000 χ^2/NDF : 89612.1/18

Left In: 0.008+/-0.000 χ^2/NDF :1746373.9/21

Left: 0.008+/-0.000 χ^2/NDF : 3424699.6/44

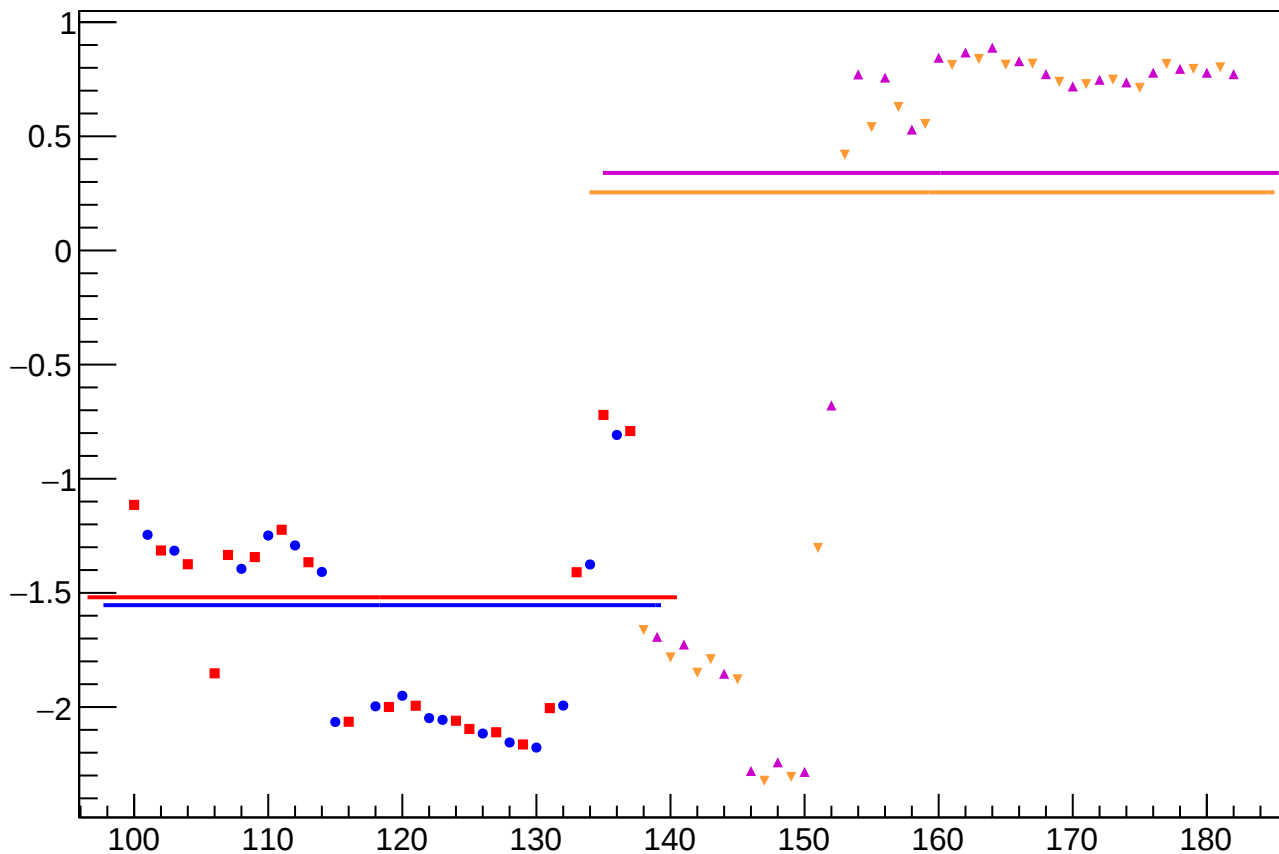
Right: 0.011+/-0.000 χ^2/NDF : 214573.0/35

In: 0.008+/-0.000 χ^2/NDF :2755771.2/38

Out: 0.008+/-0.000 χ^2/NDF :2612714.7/41

All: 0.008+/-0.000 χ^2/NDF : 5371034.5/80

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.554+/-0.000 χ^2/NDF : 153751208532.9/16

Left Out: 0.254+/-0.000 χ^2/NDF : 2500480998252.1/22

Right Out: -1.519+/-0.000 χ^2/NDF : 138061021403.9/18

Left In: 0.340+/-0.000 χ^2/NDF : 2265021258712.1/21

Left: 0.297+/-0.000 χ^2/NDF : 4774453429155.8/44

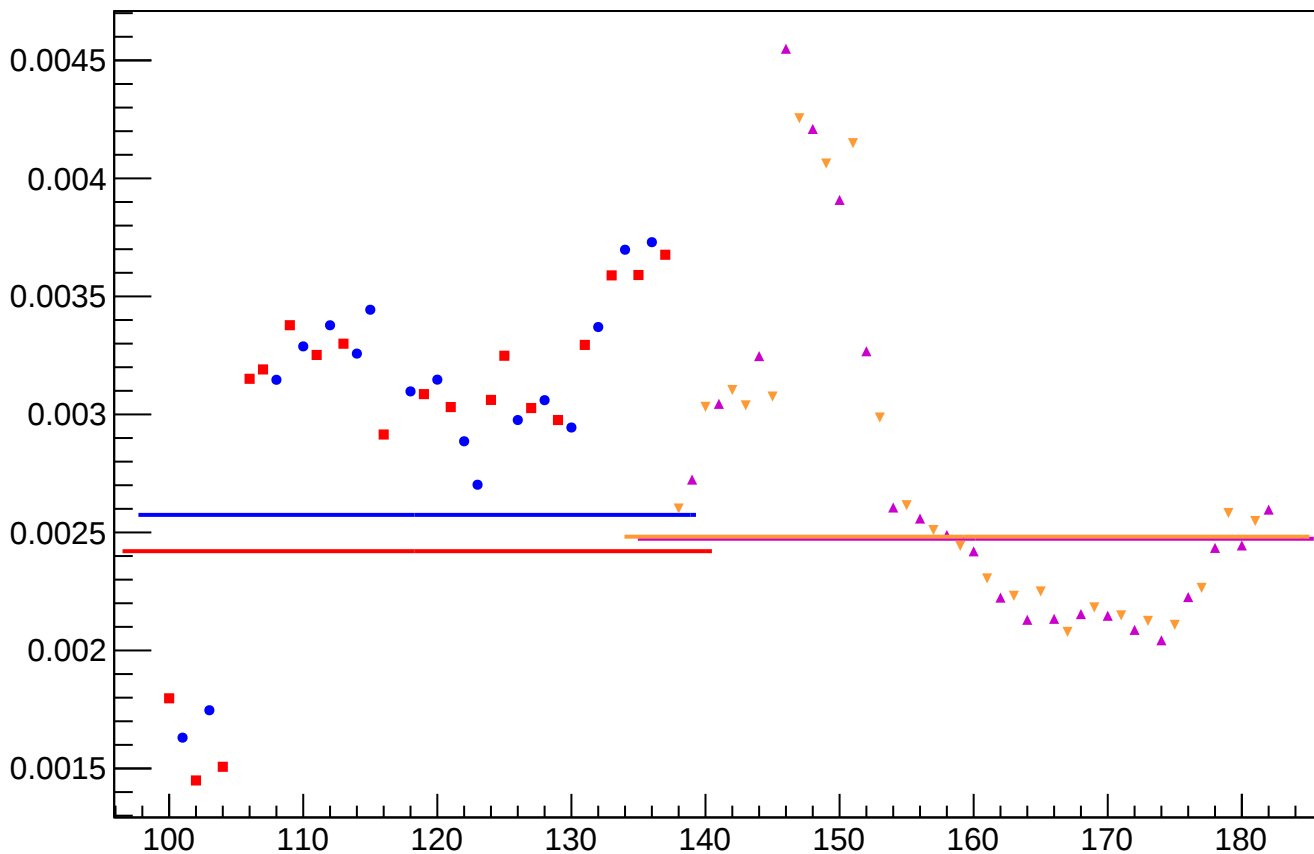
Right: -1.535+/-0.000 χ^2/NDF : 292351096405.8/35

In: -0.150+/-0.000 χ^2/NDF : 4678116370288.6/38

Out: -0.242+/-0.000 χ^2/NDF : 4824765589872.0/41

All: -0.197+/-0.000 χ^2/NDF : 9517056061987

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 :1060917.1/22

Right Out: 0.002+/-0.000 χ^2/NDF : 1484766.5/18

Left In: 0.002+/-0.000 χ^2/NDF :1135277.0/21

Left: 0.002+/-0.000 χ^2/NDF : 2196382.7/44

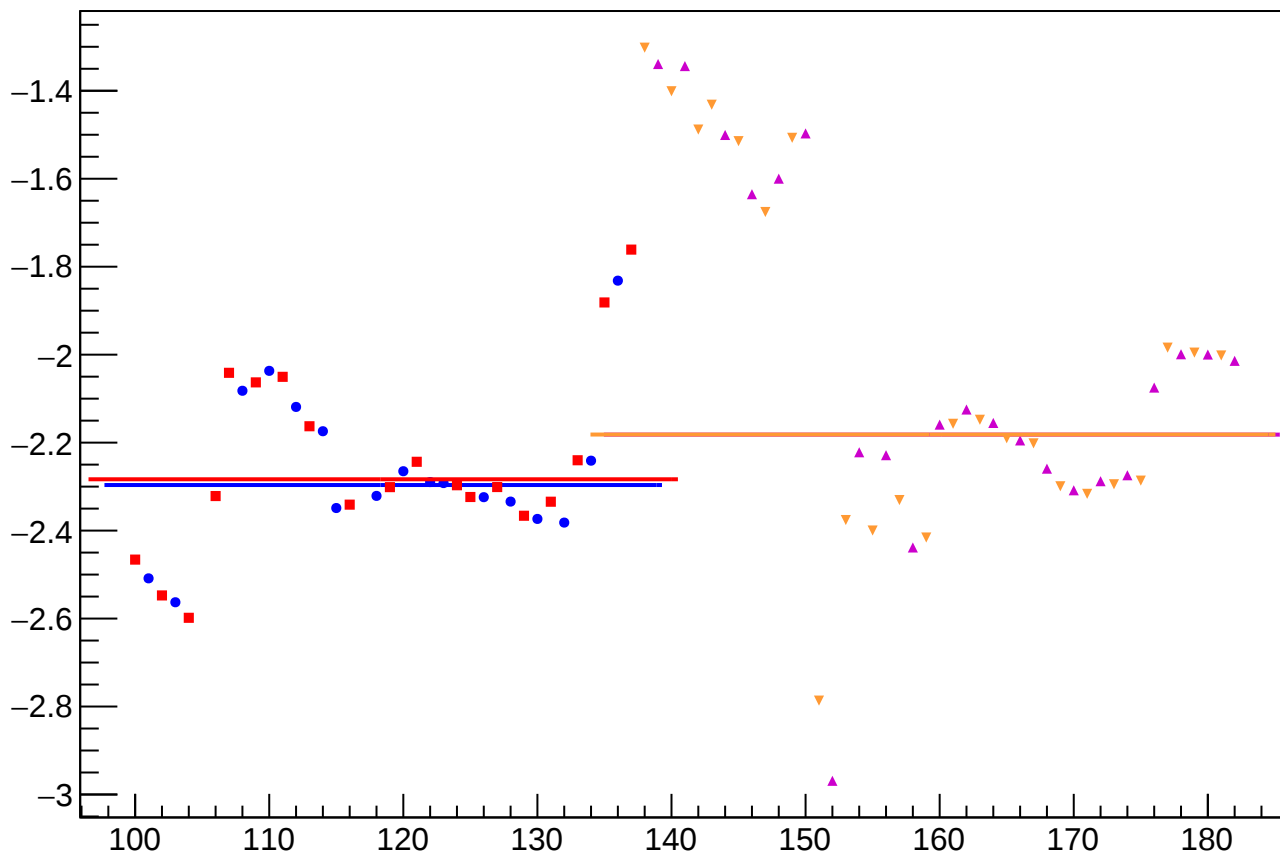
Right: 0.002+/-0.000 χ^2/NDF : 2519697.5/35

In: 0.002+/-0.000 χ^2/NDF :2161707.1/38

Out: 0.002+/-0.000 χ^2/NDF :2550936.8/41

All: 0.002+/-0.000 χ^2/NDF : 4716669.7/80

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296 ± 0.000 $\chi^2/\text{NDF}: 5781445779.2/16$

Left Out: -2.182 ± 0.000 $\chi^2/\text{NDF}: 57935078315.1/22$

Right Out: -2.283 ± 0.000 $\chi^2/\text{NDF}: 6547805693.1/18$

Left In: -2.182 ± 0.000 $\chi^2/\text{NDF}: 72897804076.1/21$

Left: -2.182 ± 0.000 $\chi^2/\text{NDF}: 130832896748.8/44$

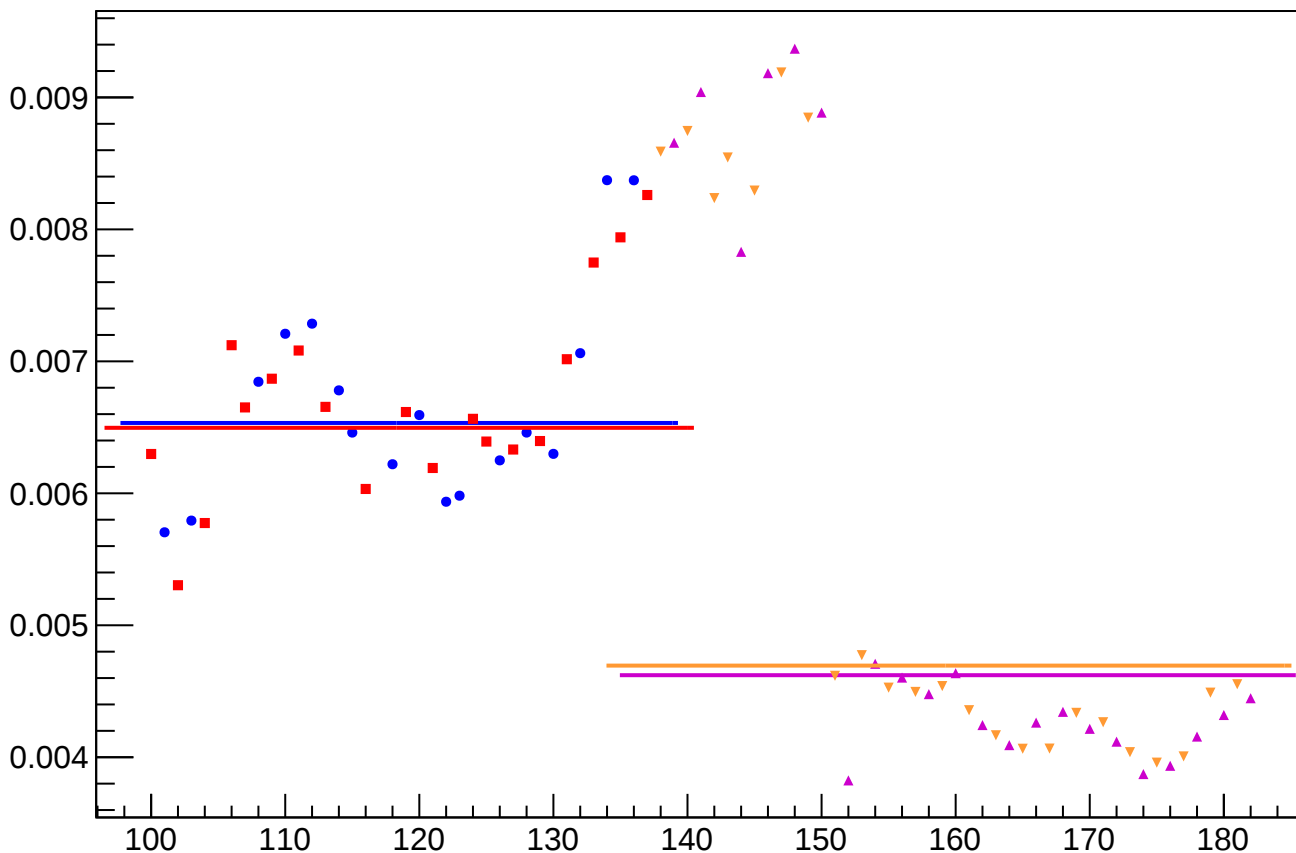
Right: -2.290 ± 0.000 $\chi^2/\text{NDF}: 12342526597.5/35$

In: -2.202 ± 0.000 $\chi^2/\text{NDF}: 80316699223.1/38$

Out: -2.200 ± 0.000 $\chi^2/\text{NDF}: 65836191511.0/41$

All: -2.201 ± 0.000 $\chi^2/\text{NDF}: 146153786281.1$

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 :2276114.7/22

Right Out: 0.006+/-0.000 χ^2/NDF : 163206.3/18

Left In: 0.005+/-0.000 χ^2/NDF :2366109.6/21

Left: 0.005+/-0.000 χ^2/NDF : 4645999.2/44

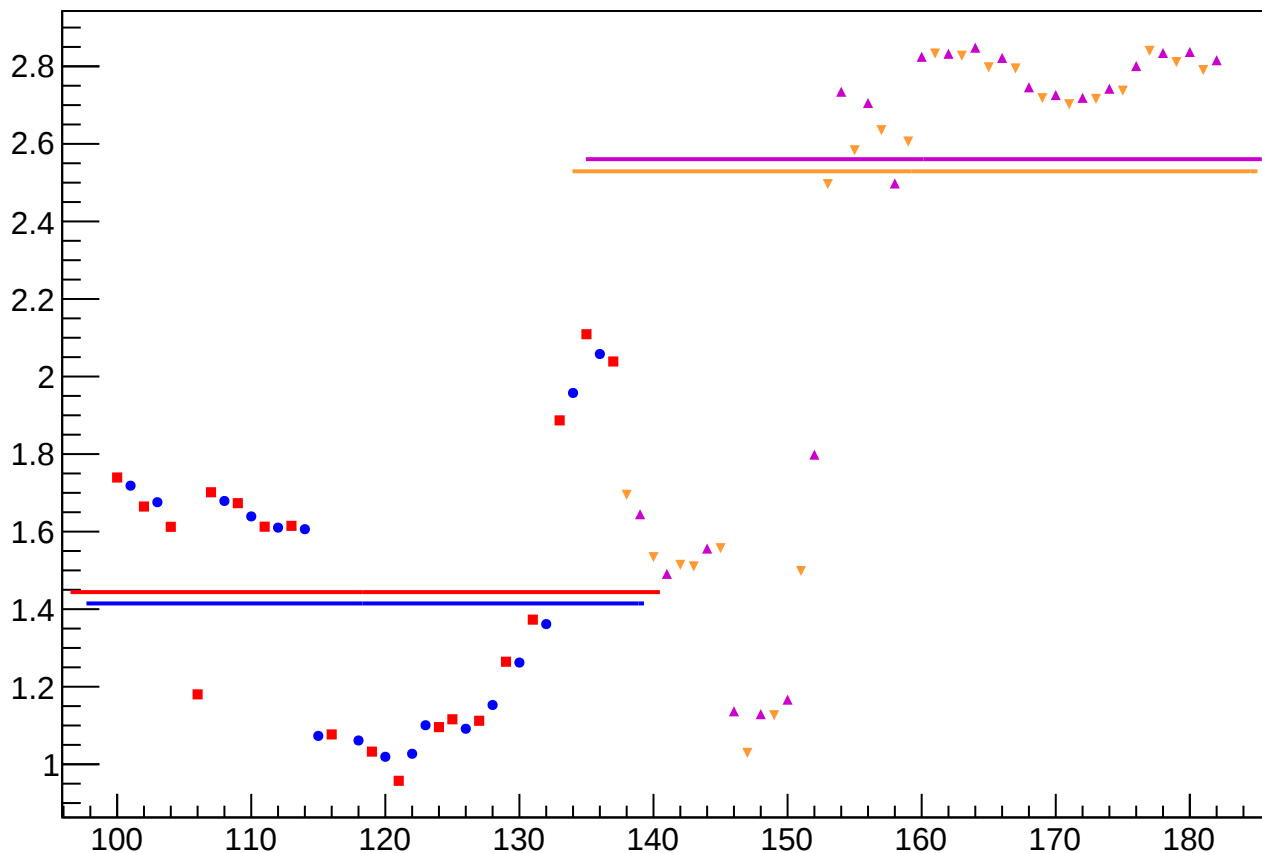
Right: 0.007+/-0.000 χ^2/NDF : 339006.1/35

In: 0.005+/-0.000 χ^2/NDF :3452876.6/38

Out: 0.005+/-0.000 χ^2/NDF :3288705.4/41

All: 0.005+/-0.000 χ^2/NDF : 6746021.7/80

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.415+/-0.000 χ^2/NDF : 171733730631.9/16

Left Out: 2.529+/-0.000 χ^2/NDF : 261899567314.1/22

Right Out: 1.444+/-0.000 χ^2/NDF : 172869416198.6/18

Left In: 2.561+/-0.000 χ^2/NDF : 259233501828.4/21

Left: 2.545+/-0.000 χ^2/NDF : 521728661402.7/44

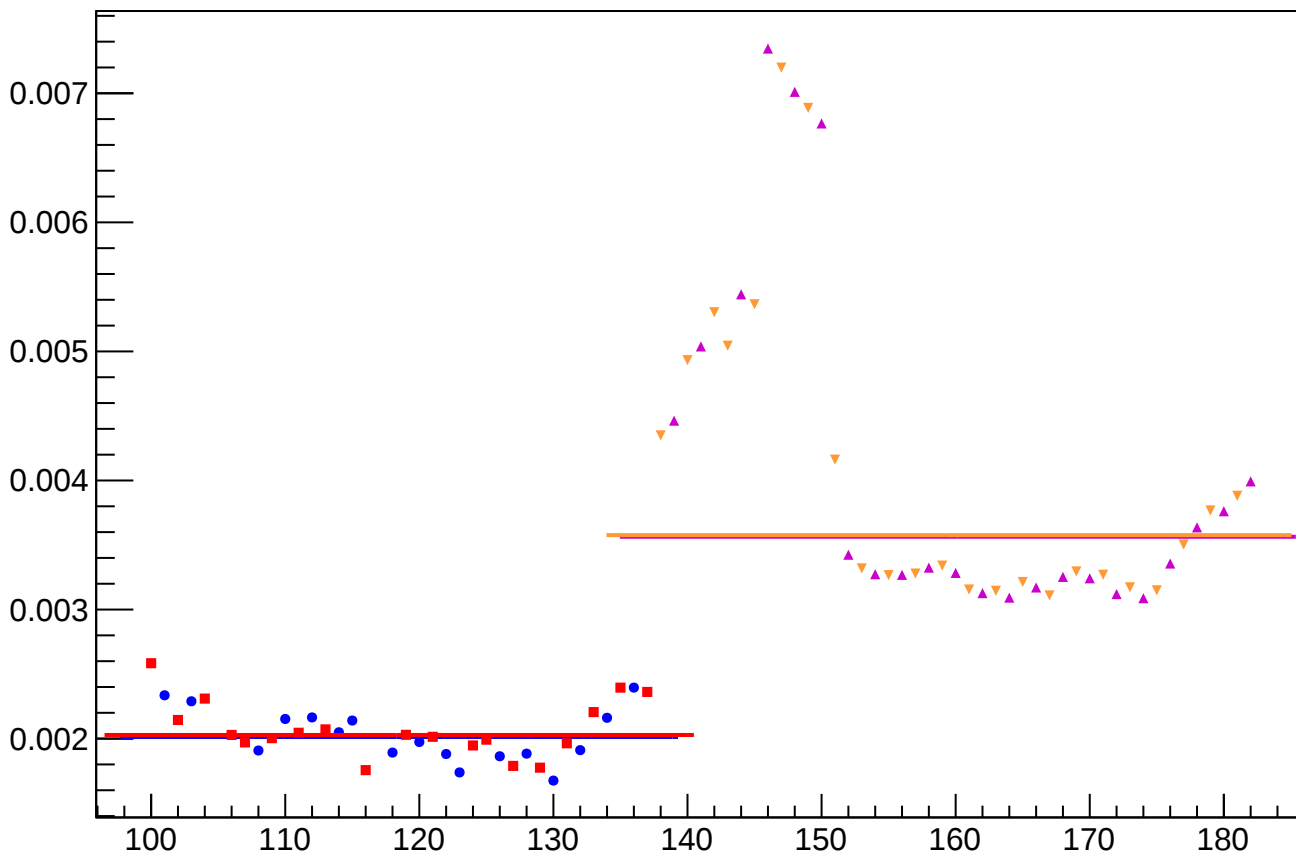
Right: 1.430+/-0.000 χ^2/NDF : 345262431703.8/35

In: 1.922+/-0.000 χ^2/NDF : 1313300397287.5/38

Out: 1.921+/-0.000 χ^2/NDF : 1247898427763.4/41

All: 1.921+/-0.000 χ^2/NDF : 2561203037627.

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 :1365757.5/22

Right Out: 0.002+/-0.000 χ^2/NDF : 102976.0/18

Left In: 0.004+/-0.000 χ^2/NDF :1560630.3/21

Left: 0.004+/-0.000 χ^2/NDF : 2926585.2/44

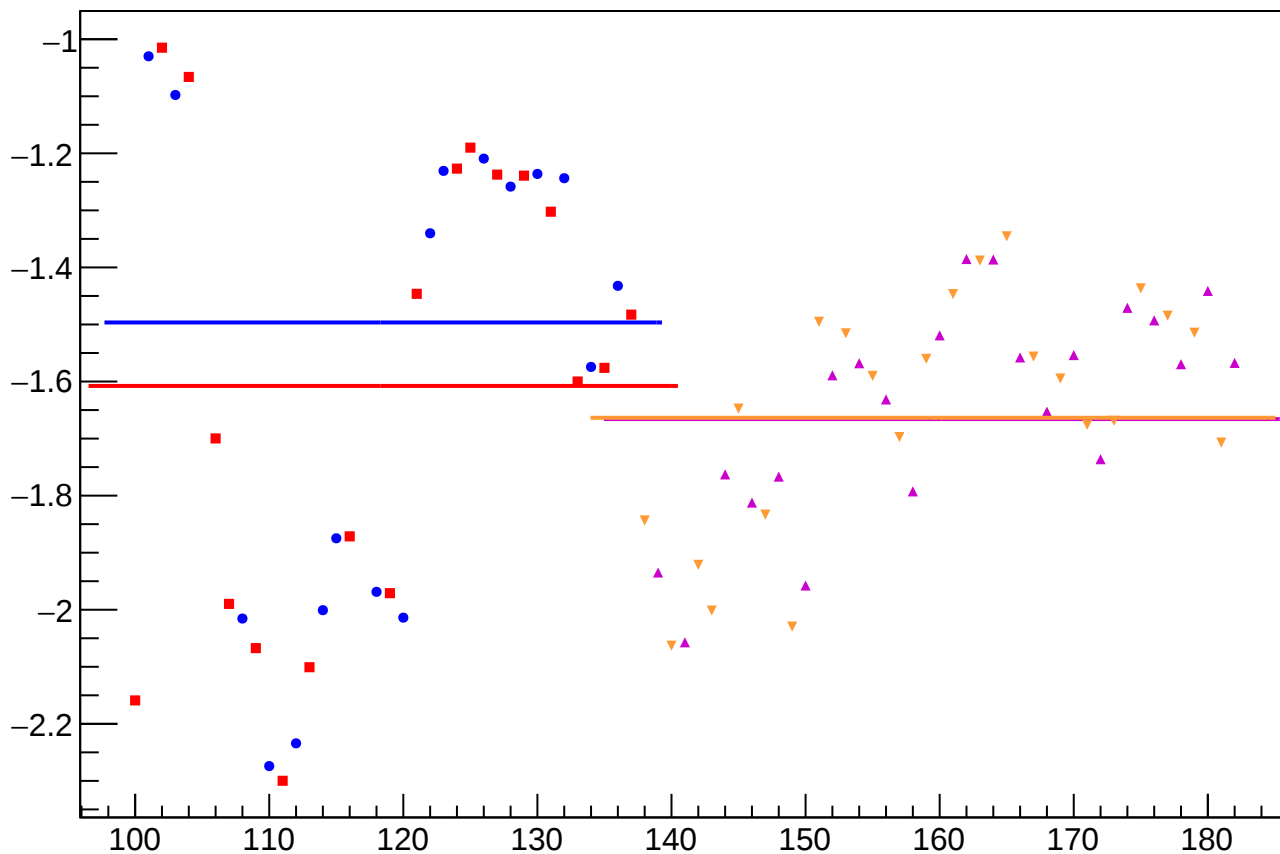
Right: 0.002+/-0.000 χ^2/NDF : 252720.4/35

In: 0.003+/-0.000 χ^2/NDF :4944445.4/38

Out: 0.003+/-0.000 χ^2/NDF :4779042.2/41

All: 0.003+/-0.000 χ^2/NDF : 9723679.0/80

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22480434073.3/16

Left Out: -1.664+/-0.000 χ^2/NDF : 17902719567.0/22

Right Out: -1.608+/-0.000 χ^2/NDF : 27825836681.8/18

Left In: -1.666+/-0.000 χ^2/NDF : 14288525197.5/21

Left: -1.665+/-0.000 χ^2/NDF : 32192301635.7/44

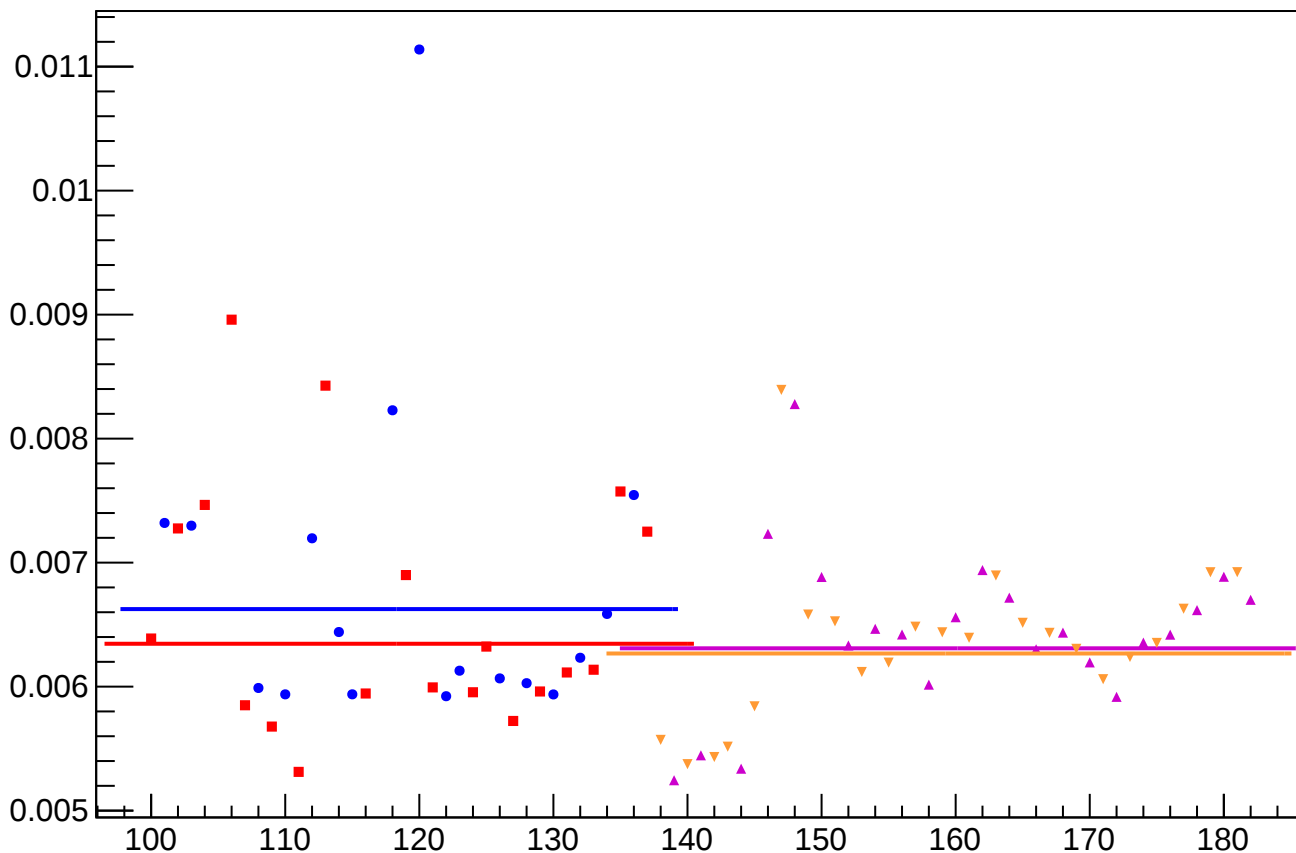
Right: -1.557+/-0.000 χ^2/NDF : 51232685741.2/35

In: -1.623+/-0.000 χ^2/NDF : 39723169683.0/38

Out: -1.648+/-0.000 χ^2/NDF : 46094720663.7/41

All: -1.636+/-0.000 χ^2/NDF : 85996846962.6/74

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 :265031.7/22

Right Out: 0.006+/-0.000 χ^2/NDF : 228829.0/18

Left In: 0.006+/-0.000 χ^2/NDF :317150.3/21

Left: 0.006+/-0.000 χ^2/NDF : 582903.6/44

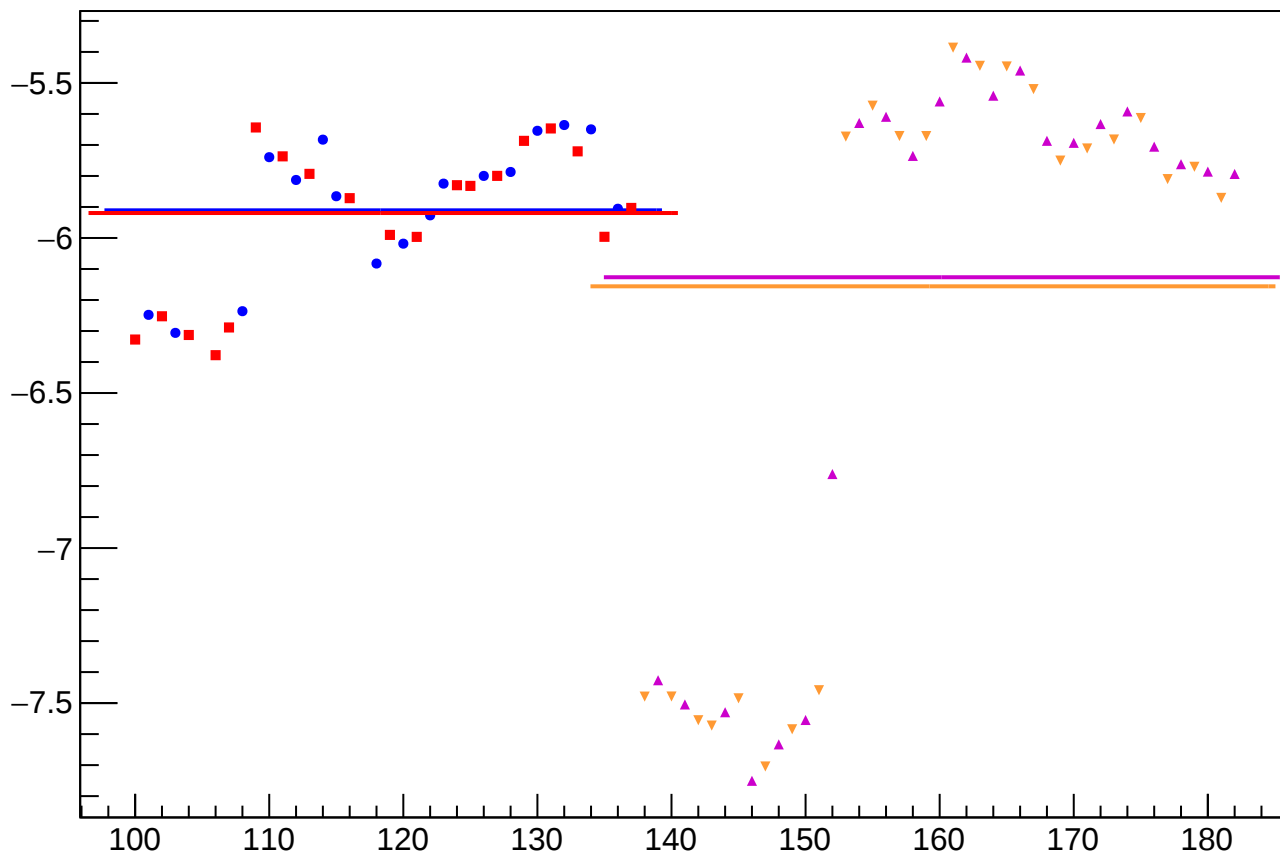
Right: 0.006+/-0.000 χ^2/NDF : 472249.9/35

In: 0.006+/-0.000 χ^2/NDF :569488.4/38

Out: 0.006+/-0.000 χ^2/NDF :495310.6/41

All: 0.006+/-0.000 χ^2/NDF : 1070466.8/80

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.911+/-0.000 χ^2/NDF : 11134606775.1/16

Left Out: -6.156+/-0.000 χ^2/NDF : 181191750144.2/22

Right Out: -5.919+/-0.000 χ^2/NDF : 12817250659.6/18

Left In: -6.127+/-0.000 χ^2/NDF : 157689770019.5/21

Left: -6.141+/-0.000 χ^2/NDF : 338987004849.5/44

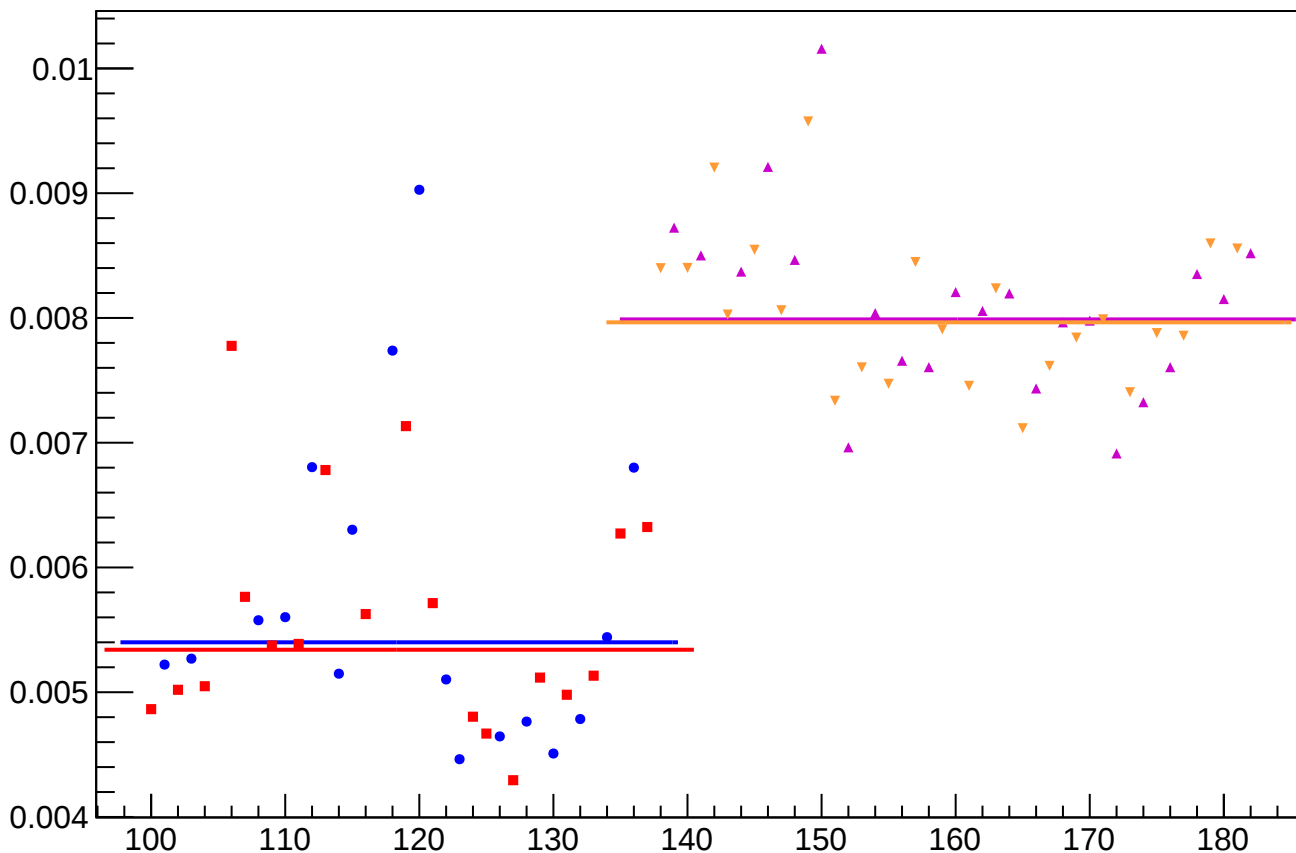
Right: -5.915+/-0.000 χ^2/NDF : 23959758417.3/35

In: -6.029+/-0.000 χ^2/NDF : 173964617063.2/38

Out: -6.044+/-0.000 χ^2/NDF : 200569989990.1/41

All: -6.037+/-0.000 χ^2/NDF : 374587717466.6

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 :140651.2/22

Right Out: 0.005+/-0.000 χ^2/NDF : 251605.9/18

Left In: 0.008+/-0.000 χ^2/NDF :213708.2/21

Left: 0.008+/-0.000 χ^2/NDF : 354493.7/44

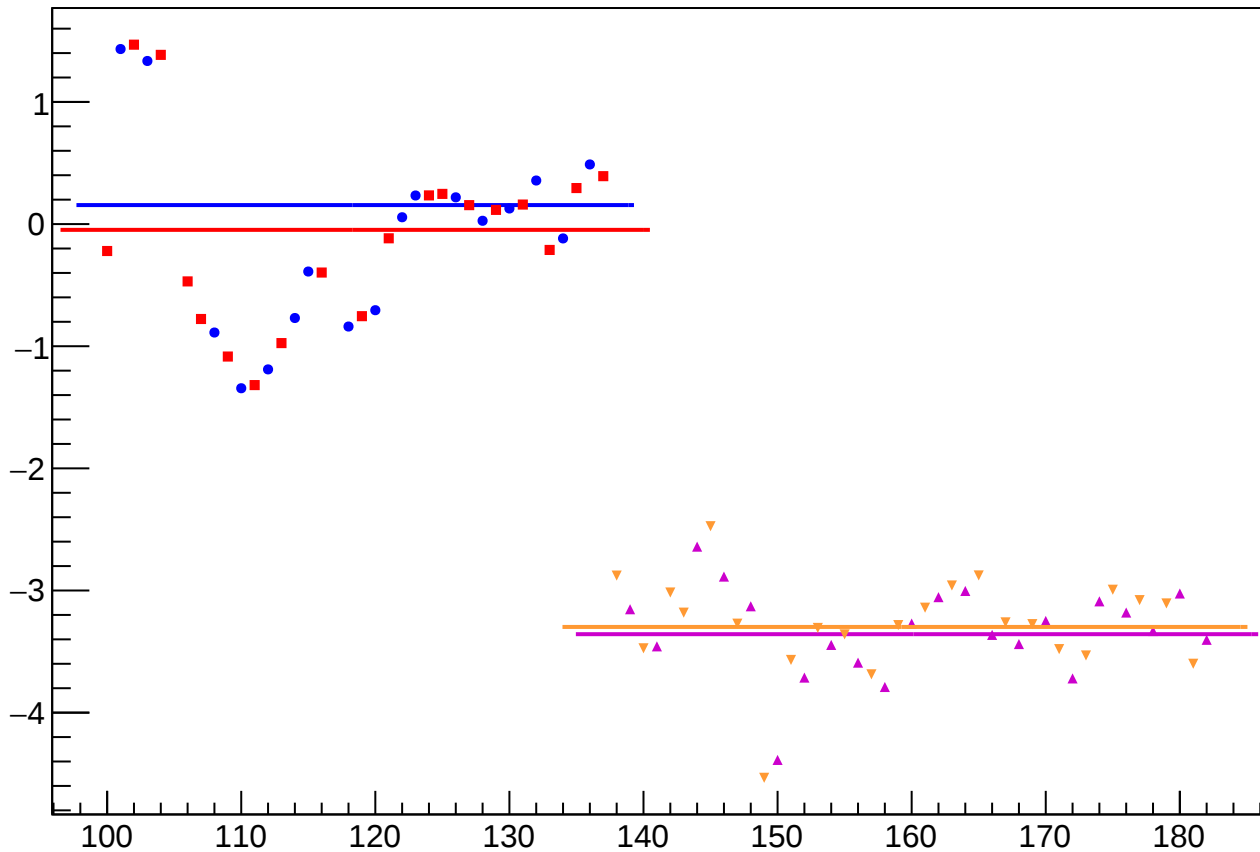
Right: 0.005+/-0.000 χ^2/NDF : 622836.6/35

In: 0.007+/-0.000 χ^2/NDF :2063536.4/38

Out: 0.007+/-0.000 χ^2/NDF :2009142.8/41

All: 0.007+/-0.000 χ^2/NDF : 4076549.5/80

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.156+/-0.000 χ^2/NDF : 16968312396.2/16

Left Out: -3.298+/-0.000 χ^2/NDF : 9055777924.0/22

Right Out: -0.047+/-0.000 χ^2/NDF : 21207878974.4/18

Left In: -3.358+/-0.000 χ^2/NDF : 8099579418.8/21

Left: -3.328+/-0.000 χ^2/NDF : 17271076820.1/44

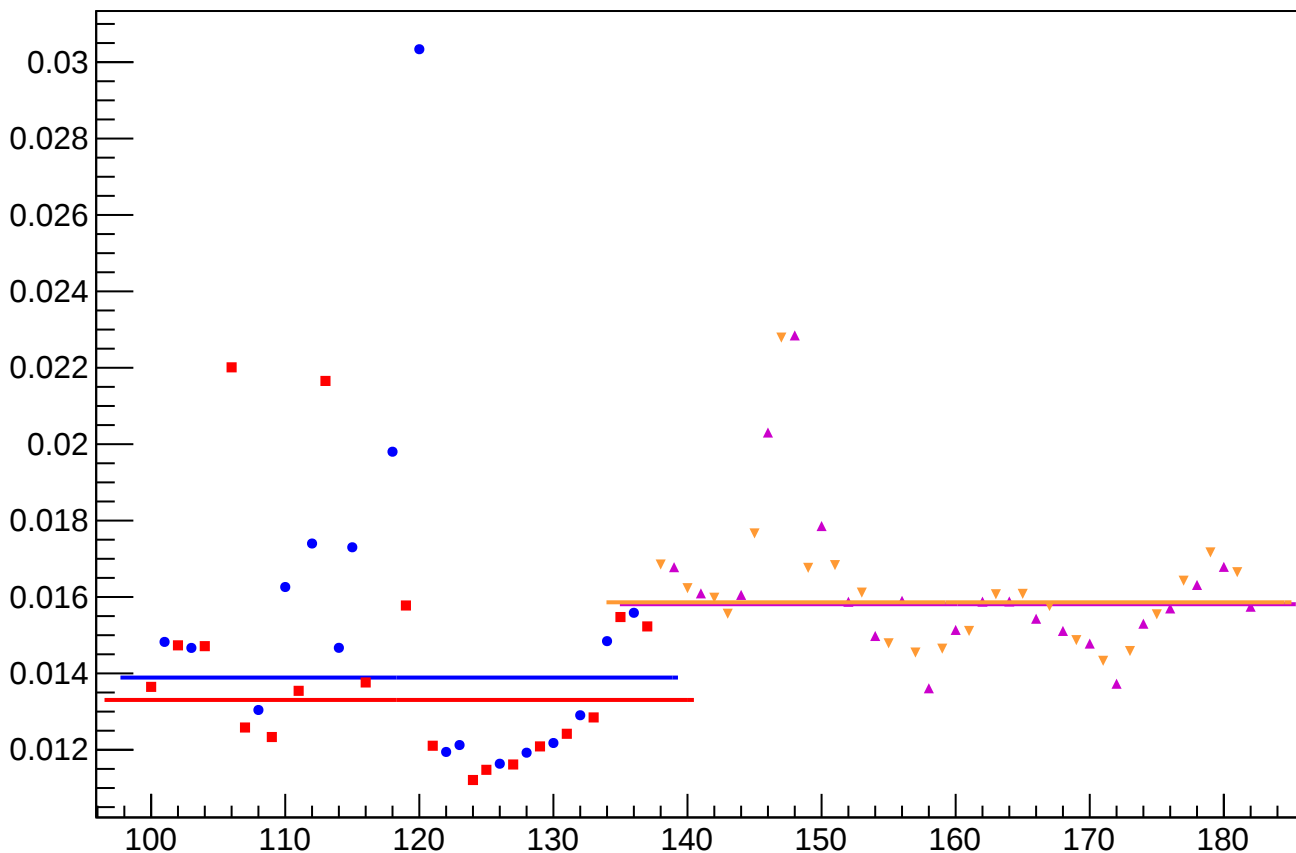
Right: 0.045+/-0.000 χ^2/NDF : 38859685690.3/35

In: -2.237+/-0.000 χ^2/NDF : 282065912625.5/38

Out: -2.147+/-0.000 χ^2/NDF : 278530738460.7/41

All: -2.191+/-0.000 χ^2/NDF : 561001260238.9

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 :247884.1/22

Right Out: 0.013+/-0.000 χ^2/NDF : 293774.0/18

Left In: 0.016+/-0.000 χ^2/NDF :336059.1/21

Left: 0.016+/-0.000 χ^2/NDF : 584107.8/44

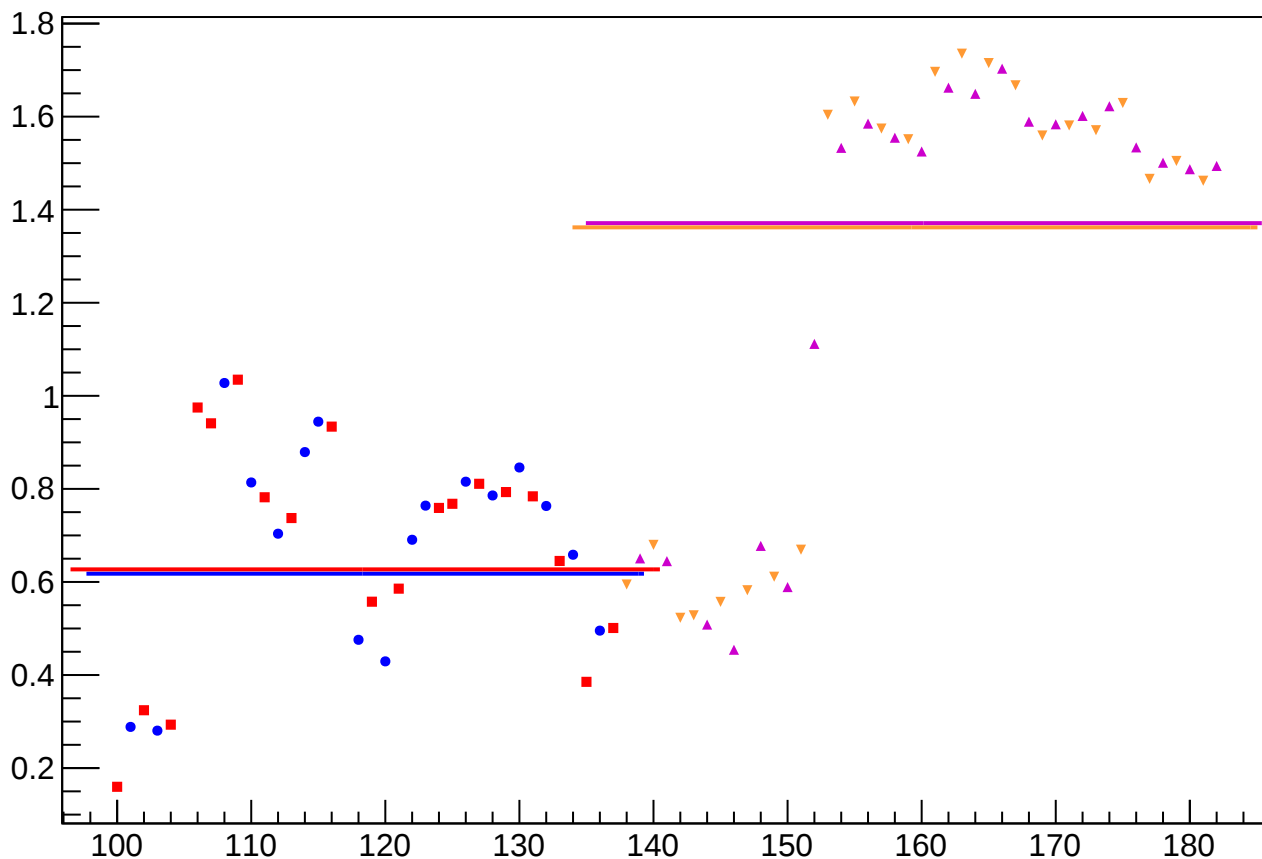
Right: 0.014+/-0.000 χ^2/NDF : 706451.8/35

In: 0.015+/-0.000 χ^2/NDF :890851.9/38

Out: 0.015+/-0.000 χ^2/NDF :848520.2/41

All: 0.015+/-0.000 χ^2/NDF : 1745218.7/80

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.618+/-0.000 χ^2/NDF : 5402179431.9/16

Left Out: 1.362+/-0.000 χ^2/NDF : 72816349996.7/22

Right Out: 0.627+/-0.000 χ^2/NDF : 6335950203.8/18

Left In: 1.371+/-0.000 χ^2/NDF : 63256827988.7/21

Left: 1.367+/-0.000 χ^2/NDF : 136090293776.2/44

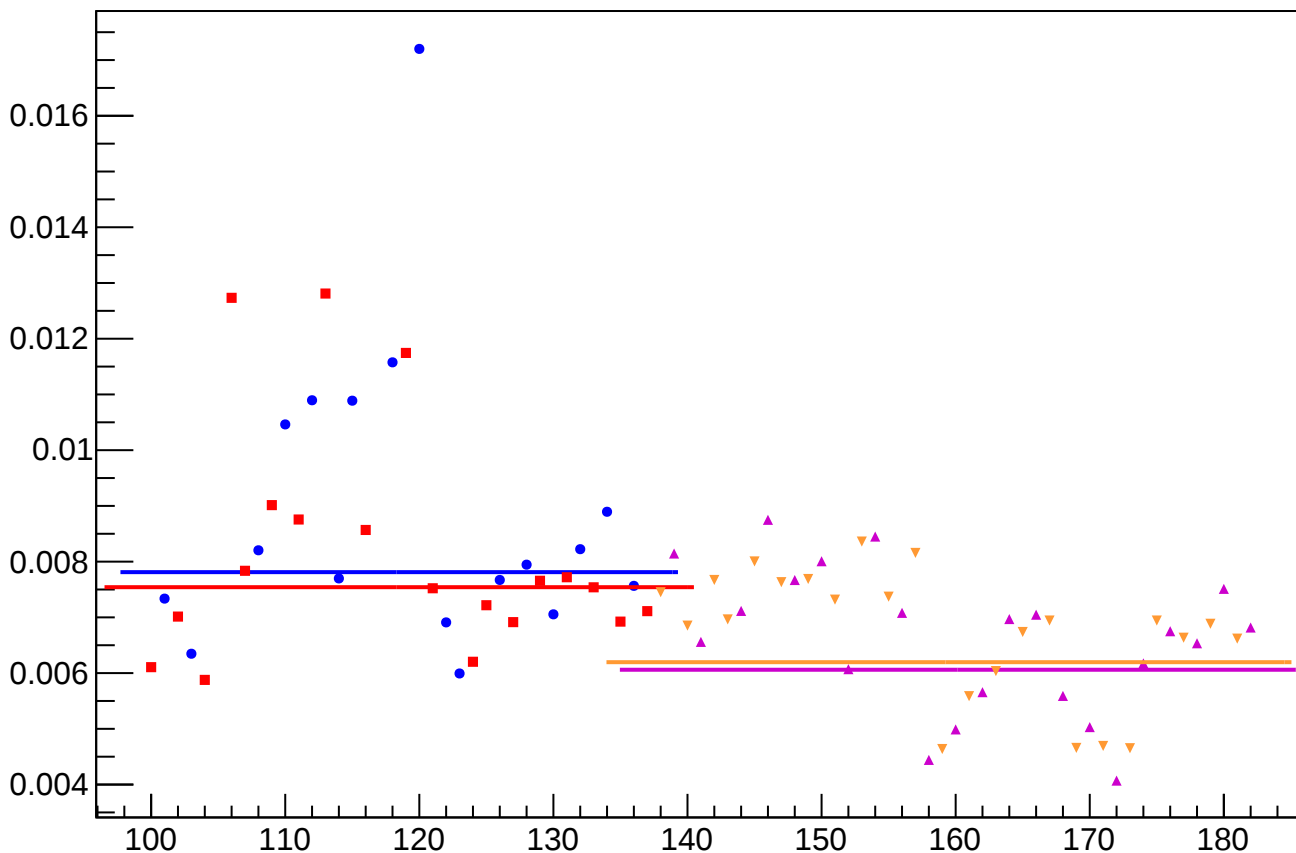
Right: 0.623+/-0.000 χ^2/NDF : 11742487820.7/35

In: 1.233+/-0.000 χ^2/NDF : 112675468688.0/38

Out: 1.208+/-0.000 χ^2/NDF : 125522139029.2/41

All: 1.220+/-0.000 χ^2/NDF : 238357592101.6

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 :1275431.1/22

Right Out: 0.008+/-0.000 χ^2/NDF : 441480.1/18

Left In: 0.006+/-0.000 χ^2/NDF :1417896.4/21

Left: 0.006+/-0.000 χ^2/NDF : 2700992.4/44

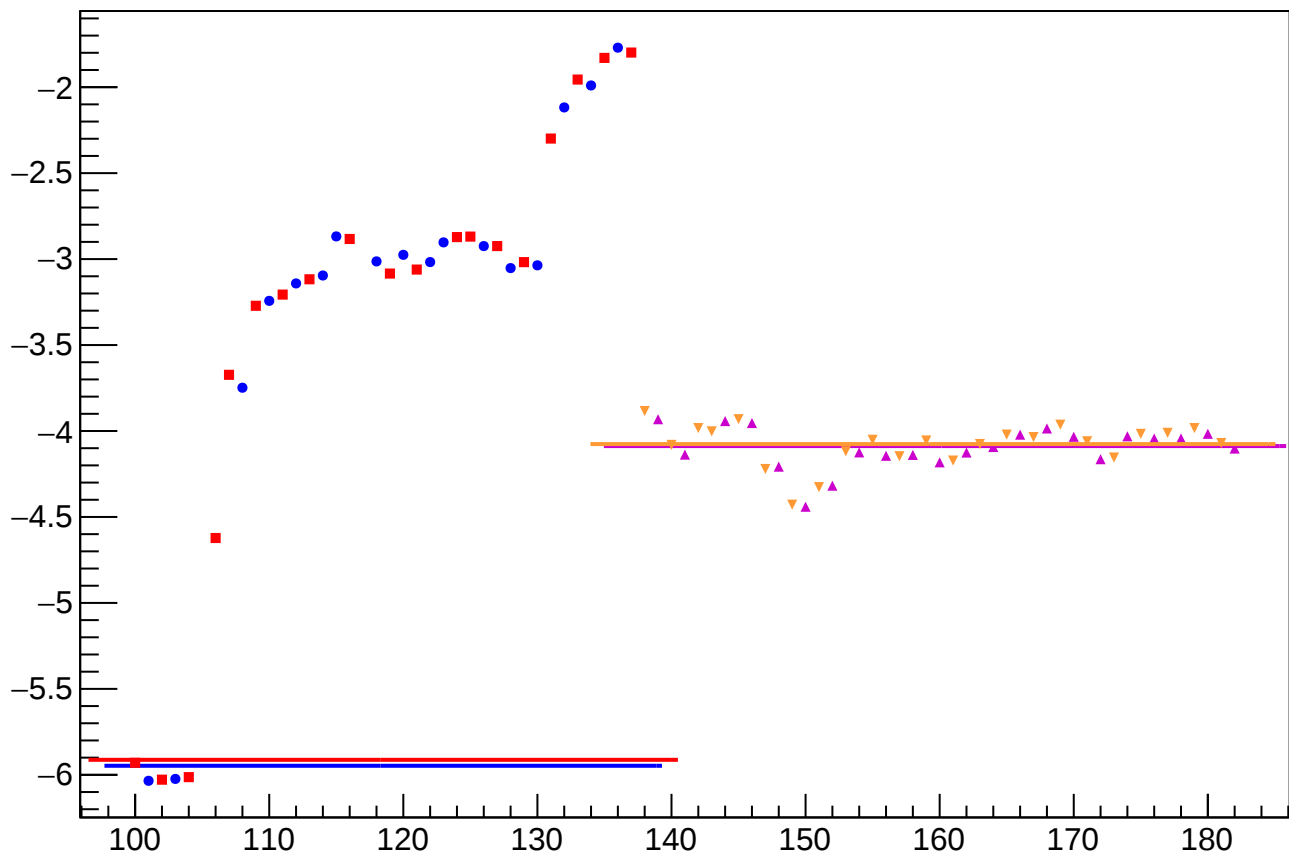
Right: 0.008+/-0.000 χ^2/NDF : 916097.9/35

In: 0.006+/-0.000 χ^2/NDF :2360896.8/38

Out: 0.006+/-0.000 χ^2/NDF :2027763.7/41

All: 0.006+/-0.000 χ^2/NDF : 4393466.0/80

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13110506154.0/16

Left Out: -4.076+/-0.000 χ^2/NDF : 36163263.5/22

Right Out: -5.913+/-0.000 χ^2/NDF : 14598904051.6/18

Left In: -4.088+/-0.000 χ^2/NDF : 34412482.1/21

Left: -4.083+/-0.000 χ^2/NDF : 70783832.0/44

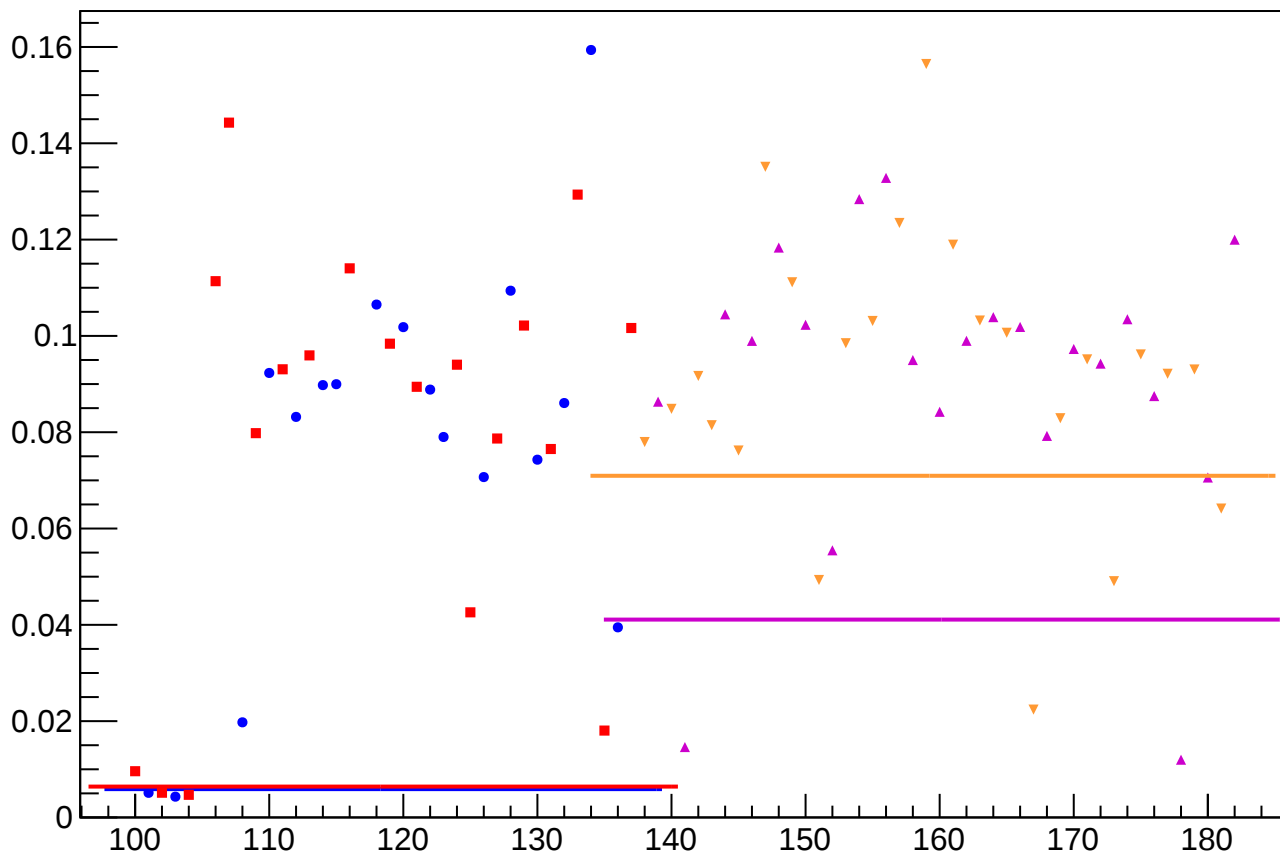
Right: -5.932+/-0.000 χ^2/NDF : 27734843277.8/35

In: -5.795+/-0.000 χ^2/NDF : 26574858080.0/38

Out: -5.804+/-0.000 χ^2/NDF : 22225298814.7/41

All: -5.799+/-0.000 χ^2/NDF : 48802182582.8/80

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7912012.3/16

Left Out: 0.071+/-0.000 χ^2/NDF : 5013383.8/22

Right Out: 0.006+/-0.000 χ^2/NDF : 8462409.6/18

Left In: 0.041+/-0.000 χ^2/NDF : 13007034.5/21

Left: 0.052+/-0.000 χ^2/NDF : 20745303.6/44

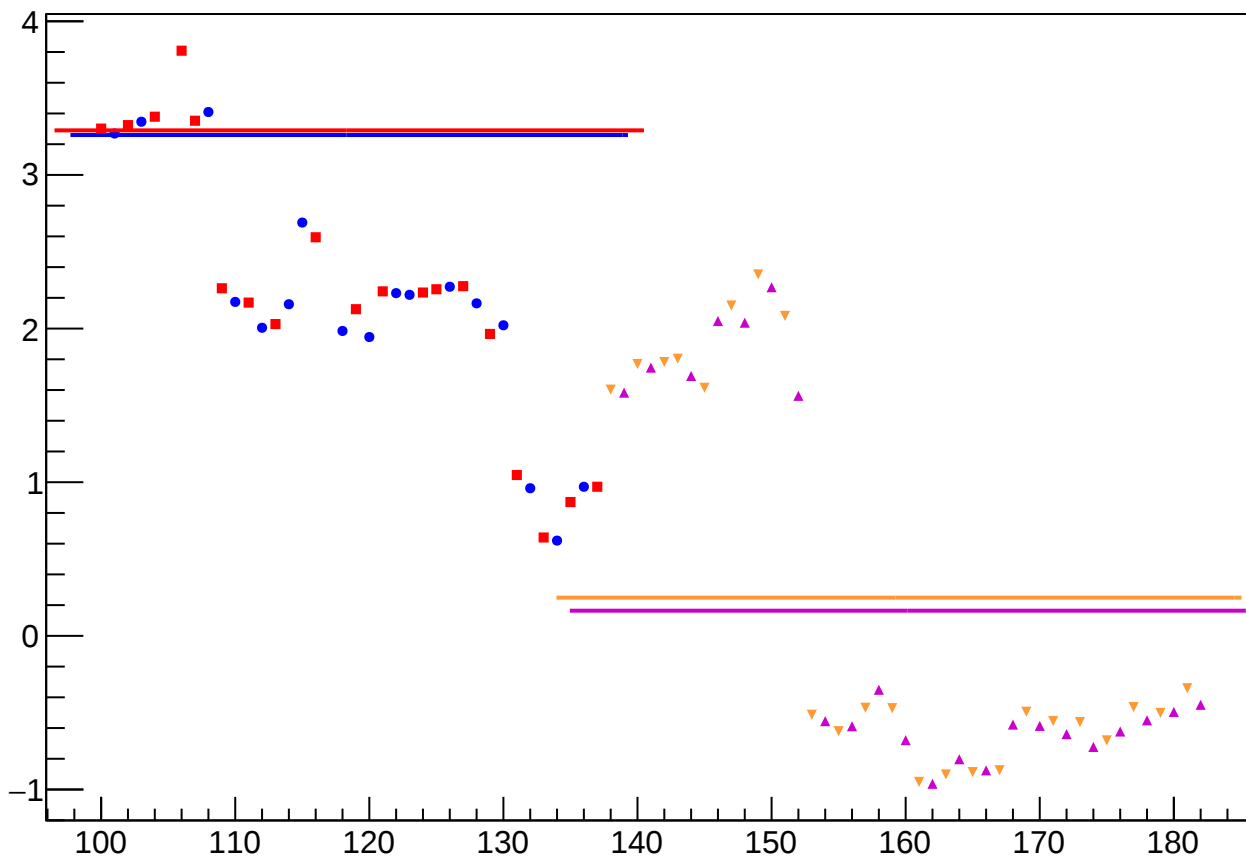
Right: 0.006+/-0.000 χ^2/NDF : 16386134.2/35

In: 0.009+/-0.000 χ^2/NDF : 30545832.0/38

Out: 0.010+/-0.000 χ^2/NDF : 32223807.6/41

All: 0.009+/-0.000 χ^2/NDF : 62864636.2/80

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260 $\pm$ 0.000 χ^2 /NDF: 2914830636.8/16

Left Out: 0.249 $\pm$ 0.000 χ^2 /NDF:3095067844.5/22

Right Out: 3.290 $\pm$ 0.000 χ^2 /NDF: 3257931929.9/18

Left In: 0.164 $\pm$ 0.000 χ^2 /NDF:3144933673.2/21

Left: 0.202 $\pm$ 0.000 χ^2 /NDF: 6248223695.2/44

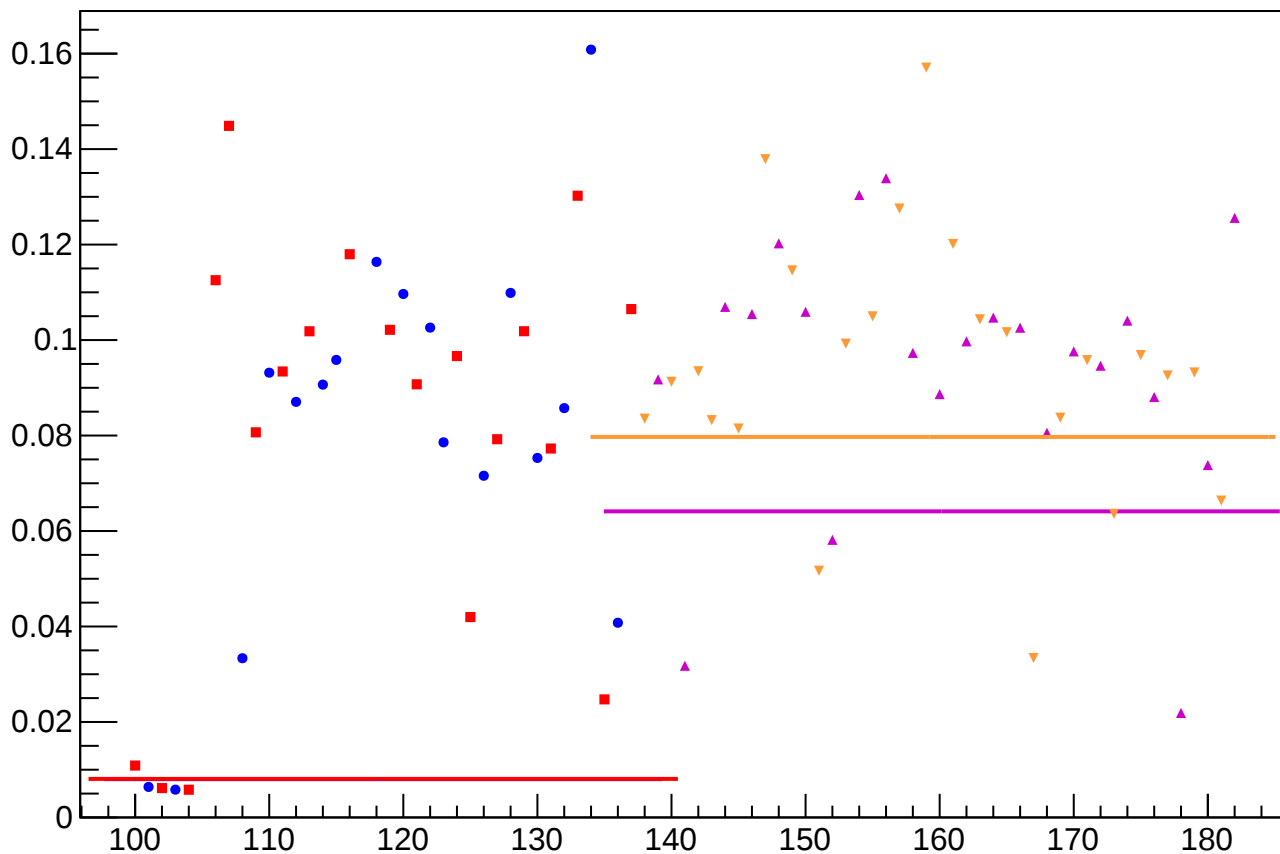
Right: 3.274 $\pm$ 0.000 χ^2 /NDF: 6185493270.5/35

In: 3.008 $\pm$ 0.000 χ^2 /NDF:28489095667.5/38

Out: 3.070 $\pm$ 0.000 χ^2 /NDF:24093668594.1/41

All: 3.037 $\pm$ 0.000 χ^2 /NDF: 52640031928.3/80

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7721103.3/16

Left Out: 0.080+/-0.000 χ^2/NDF : 3220342.2/22

Right Out: 0.008+/-0.000 χ^2/NDF : 8274347.6/18

Left In: 0.064+/-0.000 χ^2/NDF : 6960096.0/21

Left: 0.071+/-0.000 χ^2/NDF : 10735083.0/44

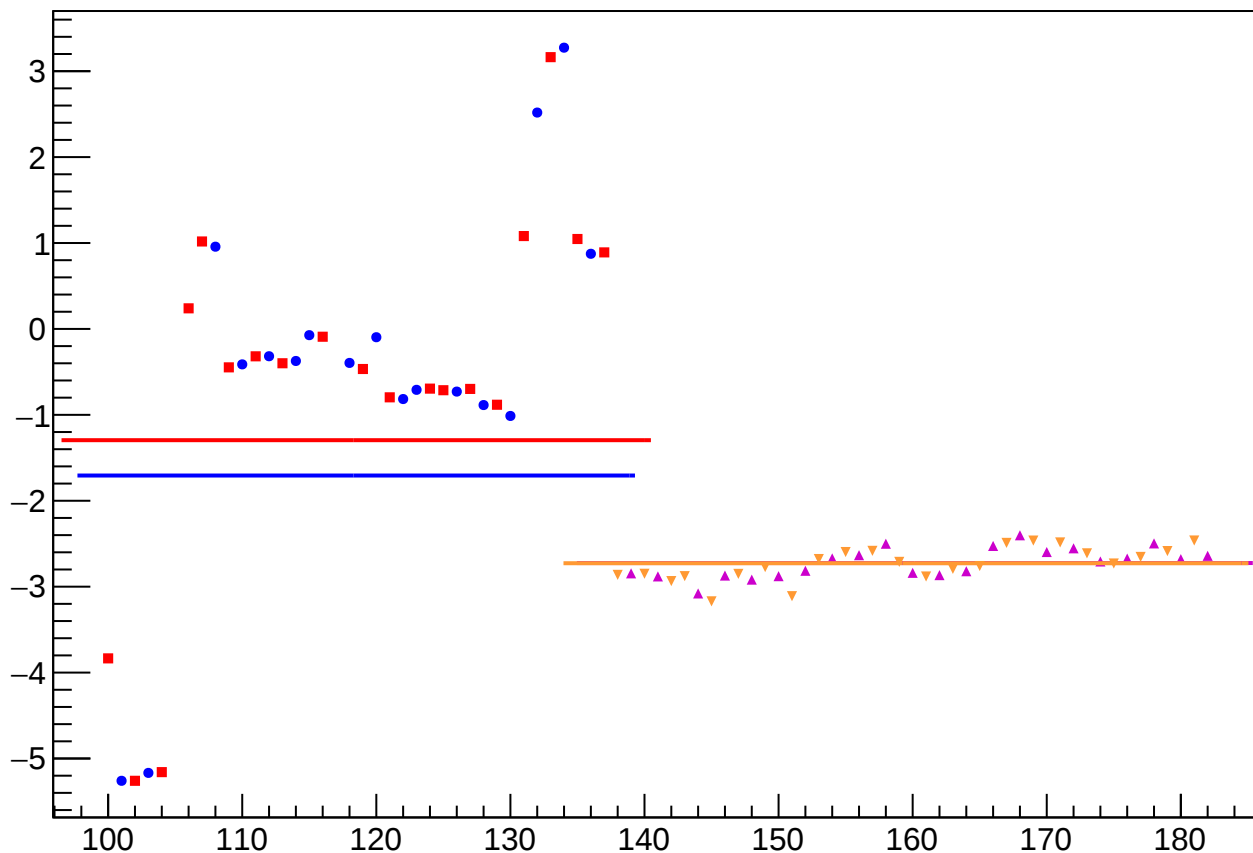
Right: 0.008+/-0.000 χ^2/NDF : 15995510.5/35

In: 0.013+/-0.000 χ^2/NDF : 29405339.6/38

Out: 0.013+/-0.000 χ^2/NDF : 31175846.7/41

All: 0.013+/-0.000 χ^2/NDF : 60594685.5/80

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.706+/-0.000 χ^2/NDF : 166152957432.2/16

Left Out: -2.727+/-0.000 χ^2/NDF : 9988774308.4/22

Right Out: -1.295+/-0.000 χ^2/NDF : 178454284120.5/18

Left In: -2.725+/-0.000 χ^2/NDF : 7970577144.1/21

Left: -2.726+/-0.000 χ^2/NDF : 17960057650.7/44

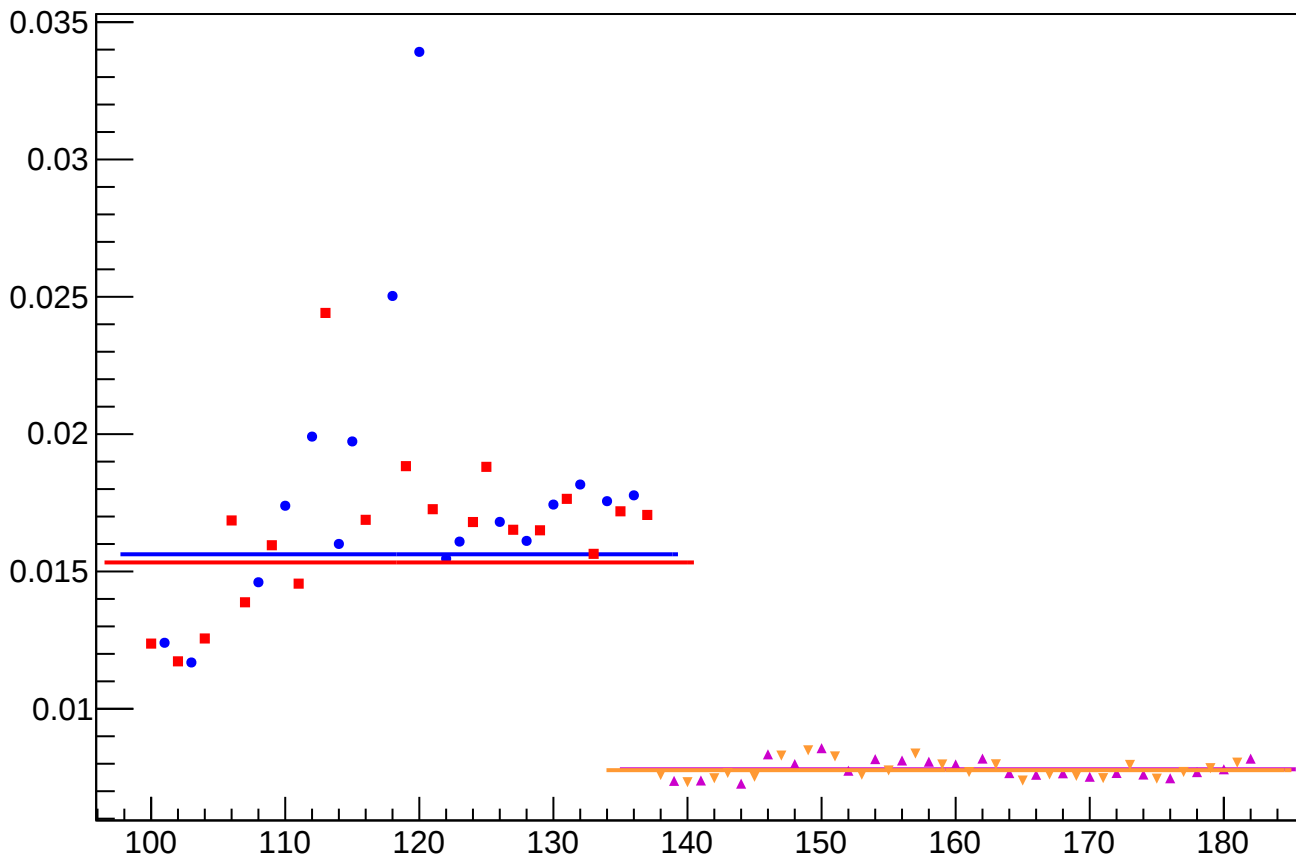
Right: -1.486+/-0.000 χ^2/NDF : 346679077409.6/35

In: -2.645+/-0.000 χ^2/NDF : 196018182093.9/38

Out: -2.603+/-0.000 χ^2/NDF : 2377744448564.7/41

All: -2.624+/-0.000 χ^2/NDF : 434058203252.1

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 : 55099.1/22

Right Out: 0.015+/-0.000 χ^2/NDF : 349445.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 61385.6/21

Left: 0.008+/-0.000 χ^2/NDF : 116771.9/44

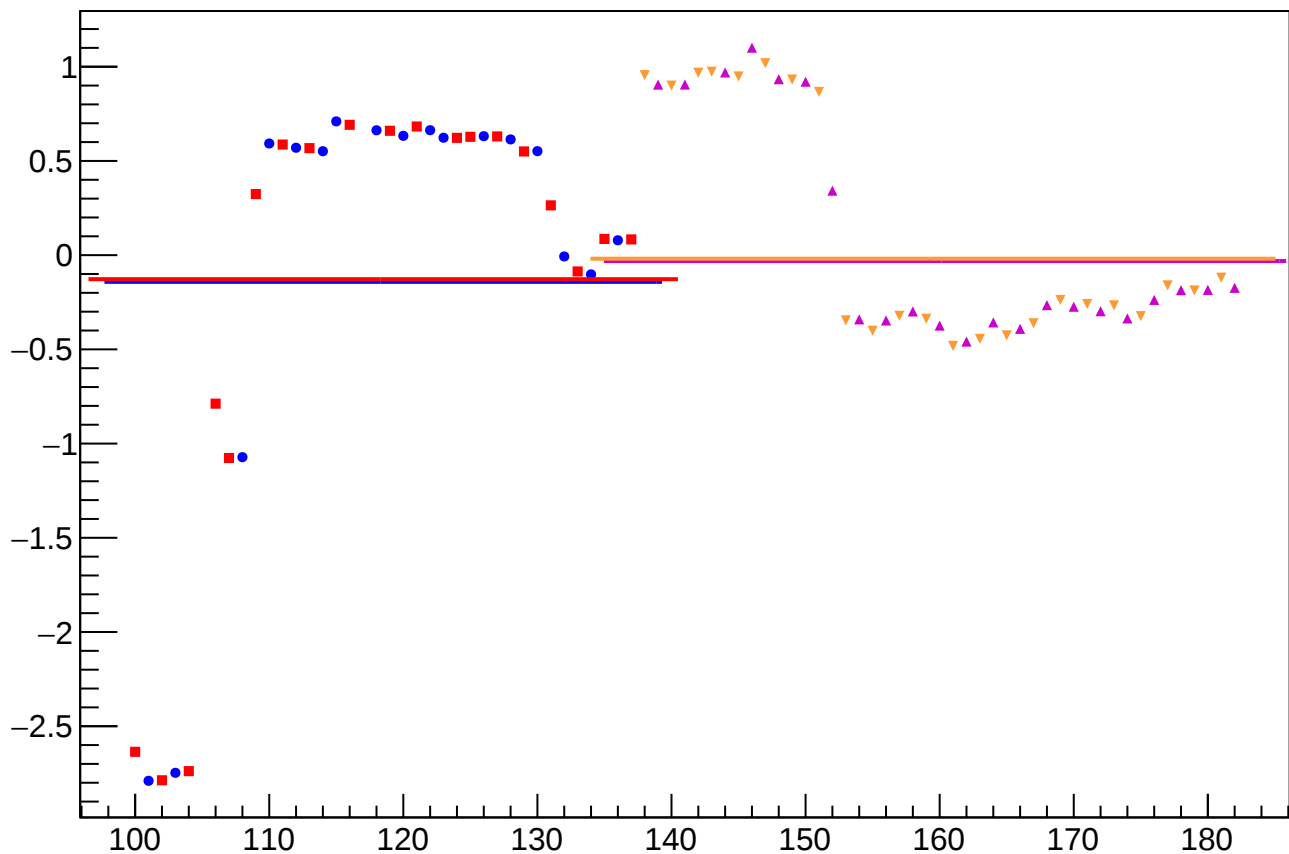
Right: 0.015+/-0.000 χ^2/NDF : 927870.4/35

In: 0.008+/-0.000 χ^2/NDF : 3223815.3/38

Out: 0.008+/-0.000 χ^2/NDF : 3155919.4/41

All: 0.008+/-0.000 χ^2/NDF : 6379771.5/80

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.142+/-0.000 χ^2/NDF : 713960839307.6/16

Left Out: -0.019+/-0.000 χ^2/NDF : 132499287455.3/22

Right Out: -0.128+/-0.000 χ^2/NDF : 760638736693.8/18

Left In: -0.031+/-0.000 χ^2/NDF : 113615070465.1/21

Left: -0.025+/-0.000 χ^2/NDF : 246149533935.7/44

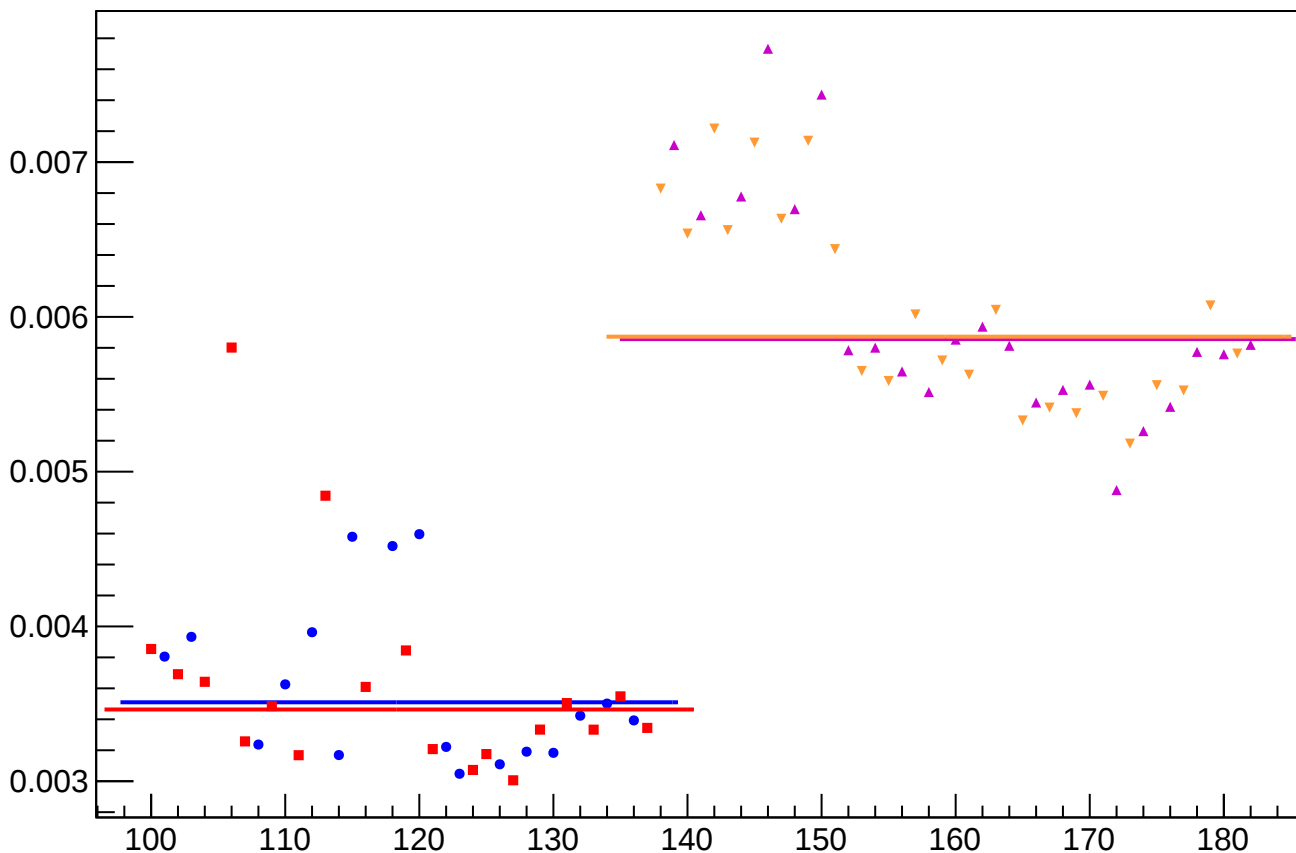
Right: -0.134+/-0.000 χ^2/NDF : 1474652420733.4/3

In: -0.089+/-0.000 χ^2/NDF : 830521250673.6/38

Out: -0.078+/-0.000 χ^2/NDF : 896126600045.8/41

All: -0.084+/-0.000 χ^2/NDF : 1726709190030

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 :283604.9/22

Right Out: 0.003+/-0.000 χ^2/NDF : 215500.5/18

Left In: 0.006+/-0.000 χ^2/NDF :363423.5/21

Left: 0.006+/-0.000 χ^2/NDF : 647140.6/44

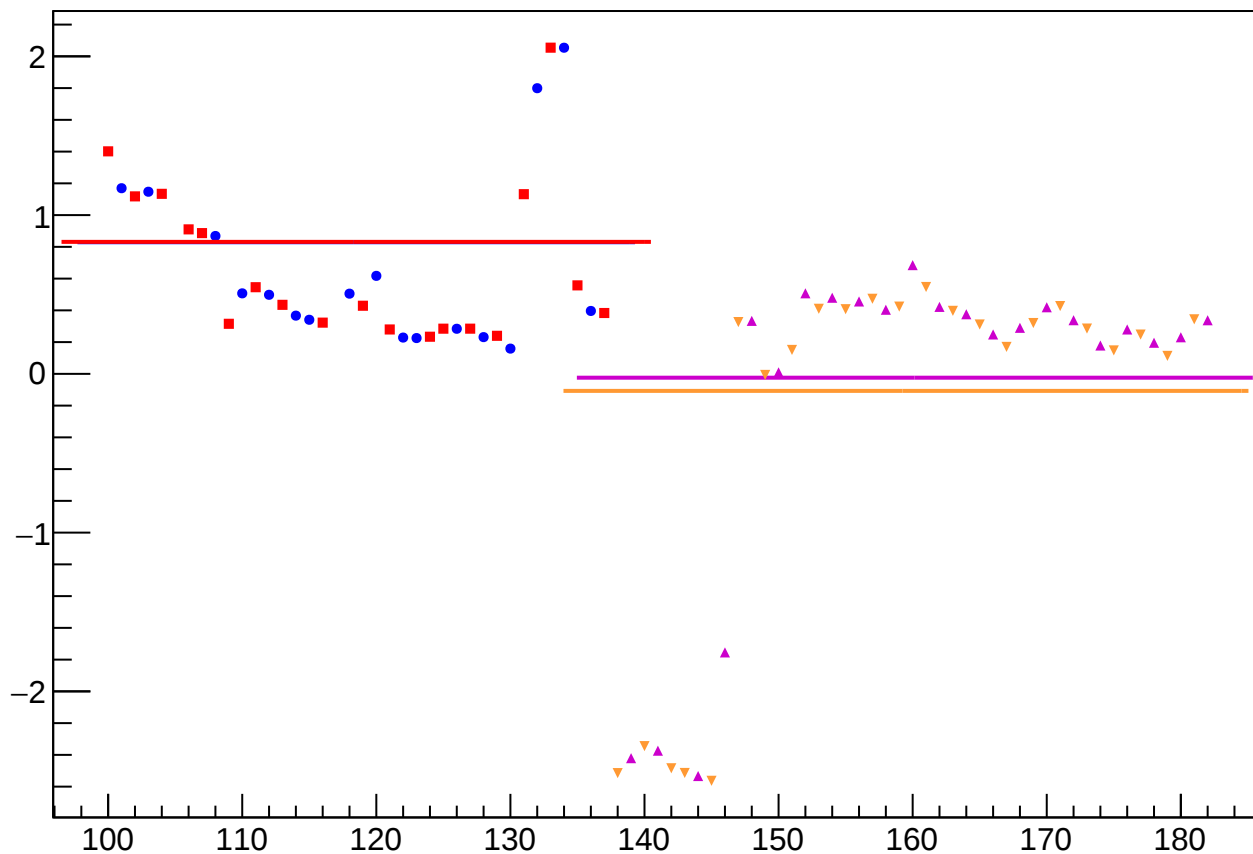
Right: 0.003+/-0.000 χ^2/NDF : 388598.7/35

In: 0.005+/-0.000 χ^2/NDF :3197794.4/38

Out: 0.005+/-0.000 χ^2/NDF :3436912.3/41

All: 0.005+/-0.000 χ^2/NDF : 6638896.9/80

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829 ± 0.000 $\chi^2/\text{NDF}: 31663410264.3/16$

Left Out: -0.107 ± 0.000 $\chi^2/\text{NDF}: 488437287989.3/22$

Right Out: 0.831 ± 0.000 $\chi^2/\text{NDF}: 33383369168.0/18$

Left In: -0.024 ± 0.000 $\chi^2/\text{NDF}: 416281871457.4/21$

Left: -0.066 ± 0.000 $\chi^2/\text{NDF}: 906404549309.8/44$

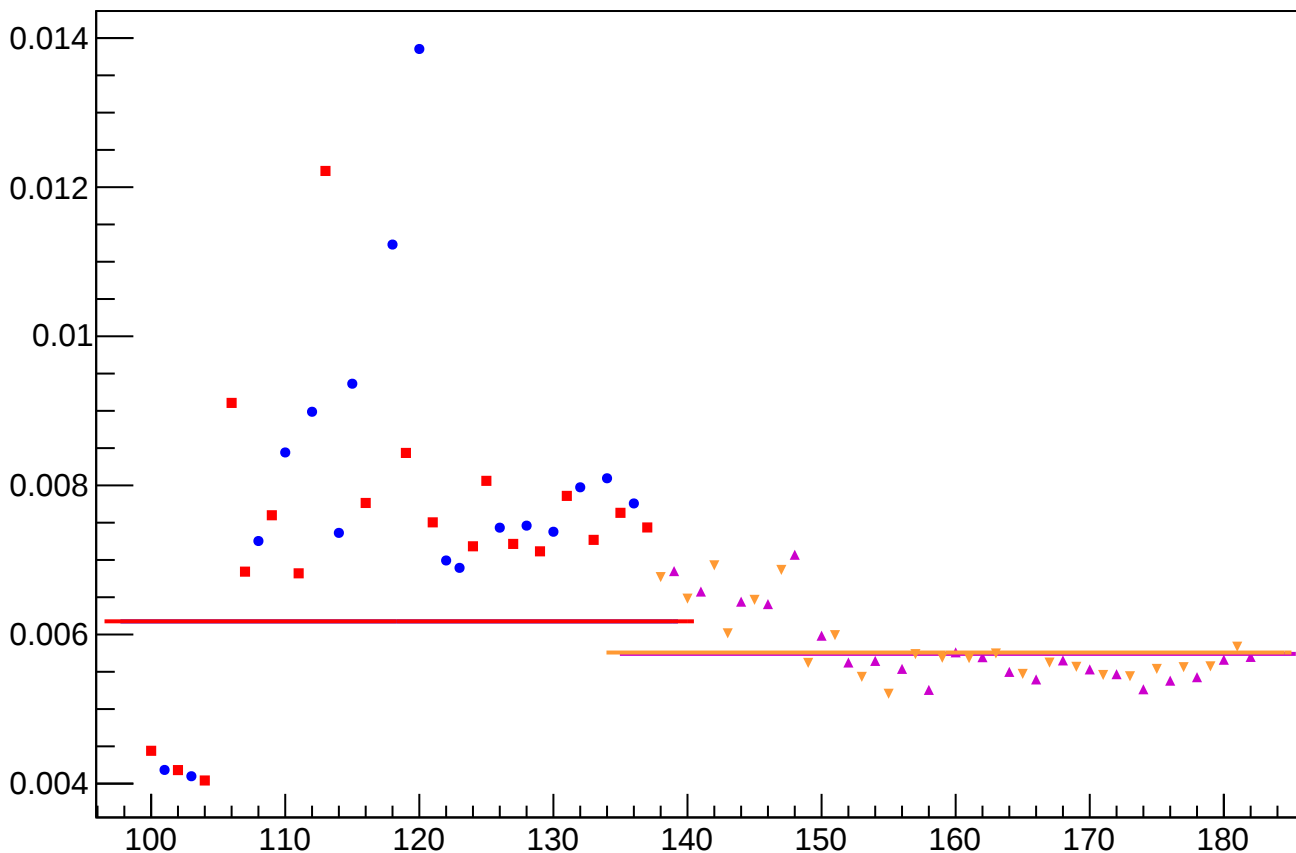
Right: 0.830 ± 0.000 $\chi^2/\text{NDF}: 65047160404.8/35$

In: 0.165 ± 0.000 $\chi^2/\text{NDF}: 526683933636.6/38$

Out: 0.115 ± 0.000 $\chi^2/\text{NDF}: 623999865853.8/41$

All: 0.140 ± 0.000 $\chi^2/\text{NDF}: 1151491932236.$

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 : 173222.0/22

Right Out: 0.006+/-0.000 χ^2/NDF : 1020690.2/18

Left In: 0.006+/-0.000 χ^2/NDF : 201414.7/21

Left: 0.006+/-0.000 χ^2/NDF : 374798.1/44

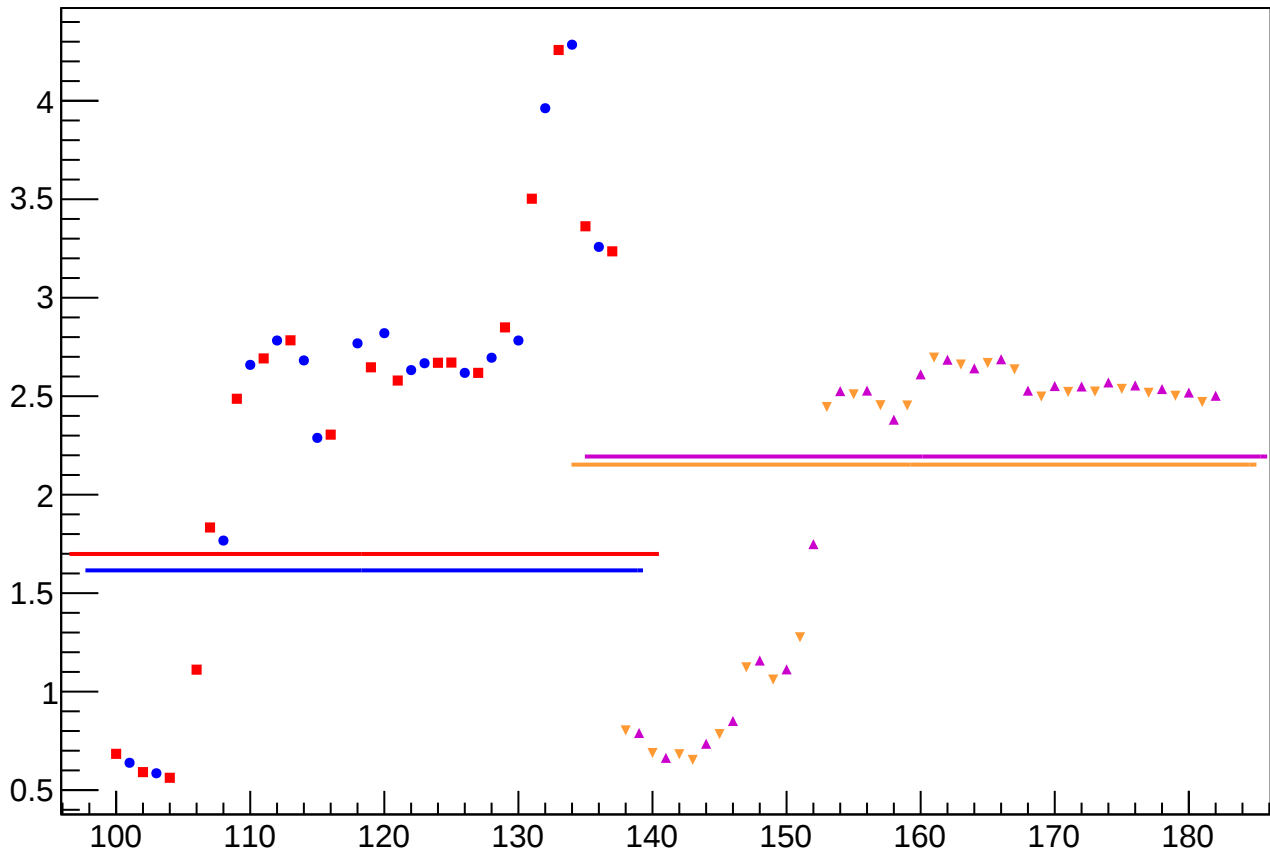
Right: 0.006+/-0.000 χ^2/NDF : 2242581.1/35

In: 0.006+/-0.000 χ^2/NDF : 1464279.9/38

Out: 0.006+/-0.000 χ^2/NDF : 1234545.1/41

All: 0.006+/-0.000 χ^2/NDF : 2699092.3/80

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.616+/-0.000 χ^2/NDF : 202687681737.9/16

Left Out: 2.153+/-0.000 χ^2/NDF : 284002130205.8/22

Right Out: 1.699+/-0.000 χ^2/NDF : 227853059871.9/18

Left In: 2.194+/-0.000 χ^2/NDF : 252025929507.8/21

Left: 2.173+/-0.000 χ^2/NDF : 536504550344.7/44

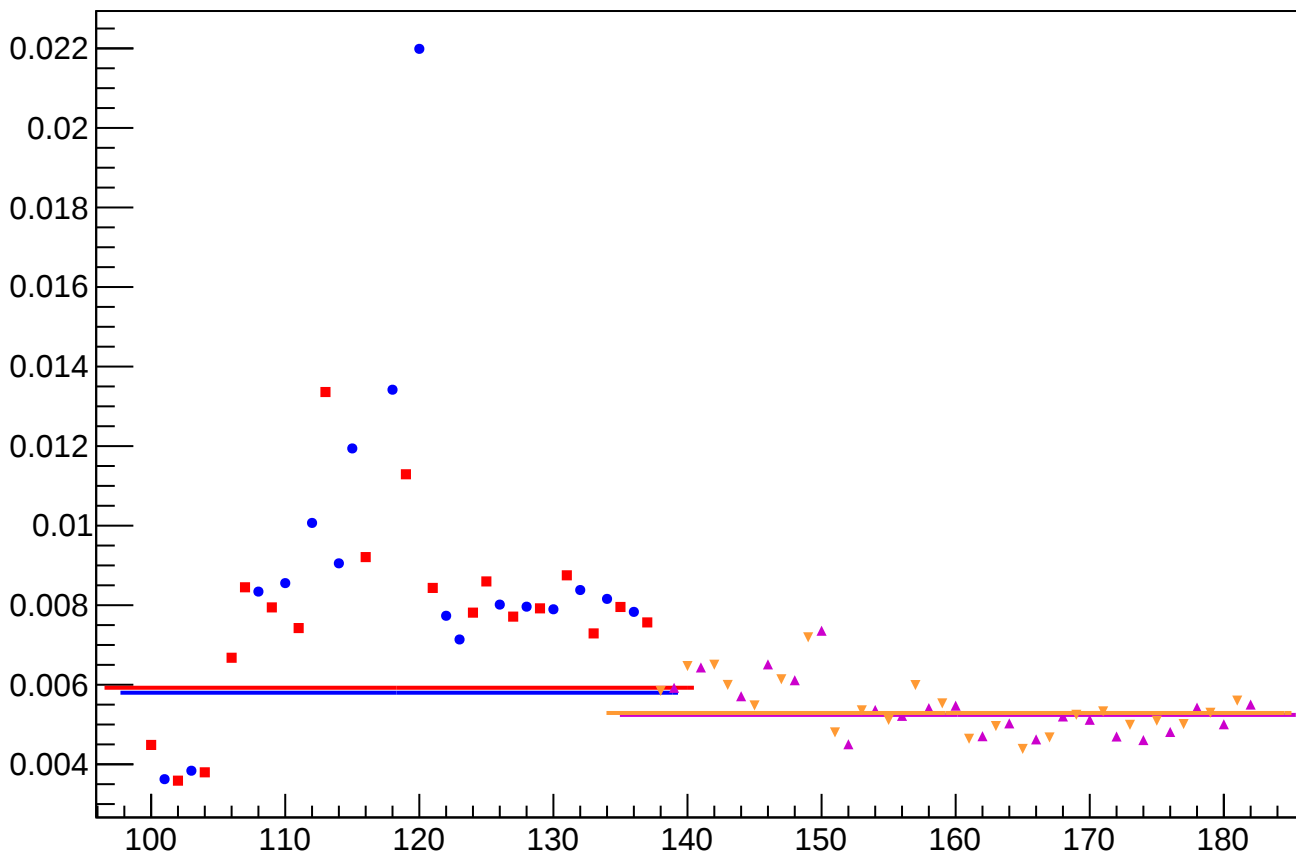
Right: 1.659+/-0.000 χ^2/NDF : 431053573295.4/35

In: 2.077+/-0.000 χ^2/NDF : 492862754447.6/38

Out: 2.056+/-0.000 χ^2/NDF : 536513900005.1/41

All: 2.066+/-0.000 χ^2/NDF : 1029534133118.

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 : 379651.2/22

Right Out: 0.006+/-0.000 χ^2/NDF : 1677224.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 424668.1/21

Left: 0.005+/-0.000 χ^2/NDF : 805655.1/44

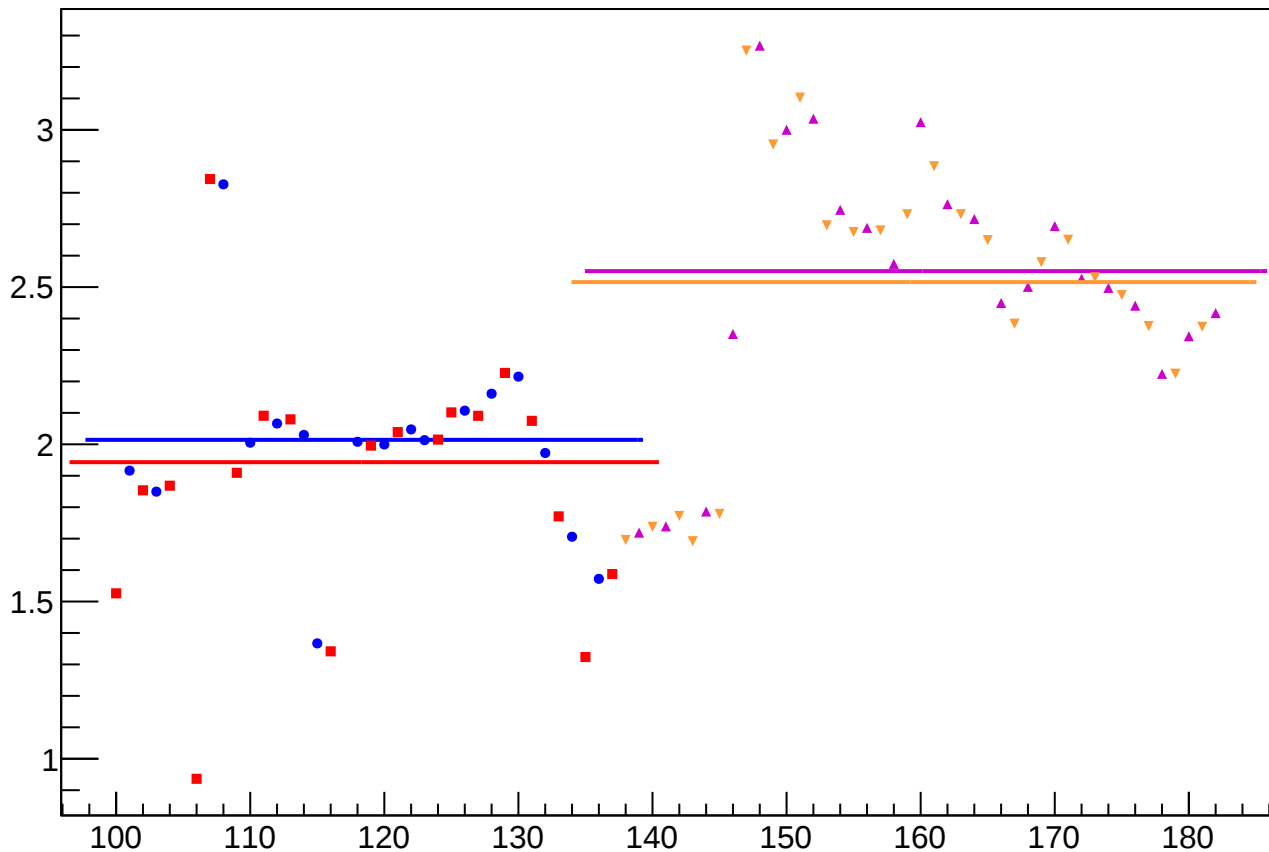
Right: 0.006+/-0.000 χ^2/NDF : 3590939.0/35

In: 0.005+/-0.000 χ^2/NDF : 2407099.8/38

Out: 0.005+/-0.000 χ^2/NDF : 2153309.9/41

All: 0.005+/-0.000 χ^2/NDF : 4564021.9/80

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.014+/-0.000 χ^2/NDF : 12207088036.2/16

Left Out: 2.516+/-0.000 χ^2/NDF : 51207146964.4/22

Right Out: 1.943+/-0.000 χ^2/NDF : 21416554404.5/18

Left In: 2.551+/-0.000 χ^2/NDF : 45176571054.0/21

Left: 2.533+/-0.000 χ^2/NDF : 96573601739.8/44

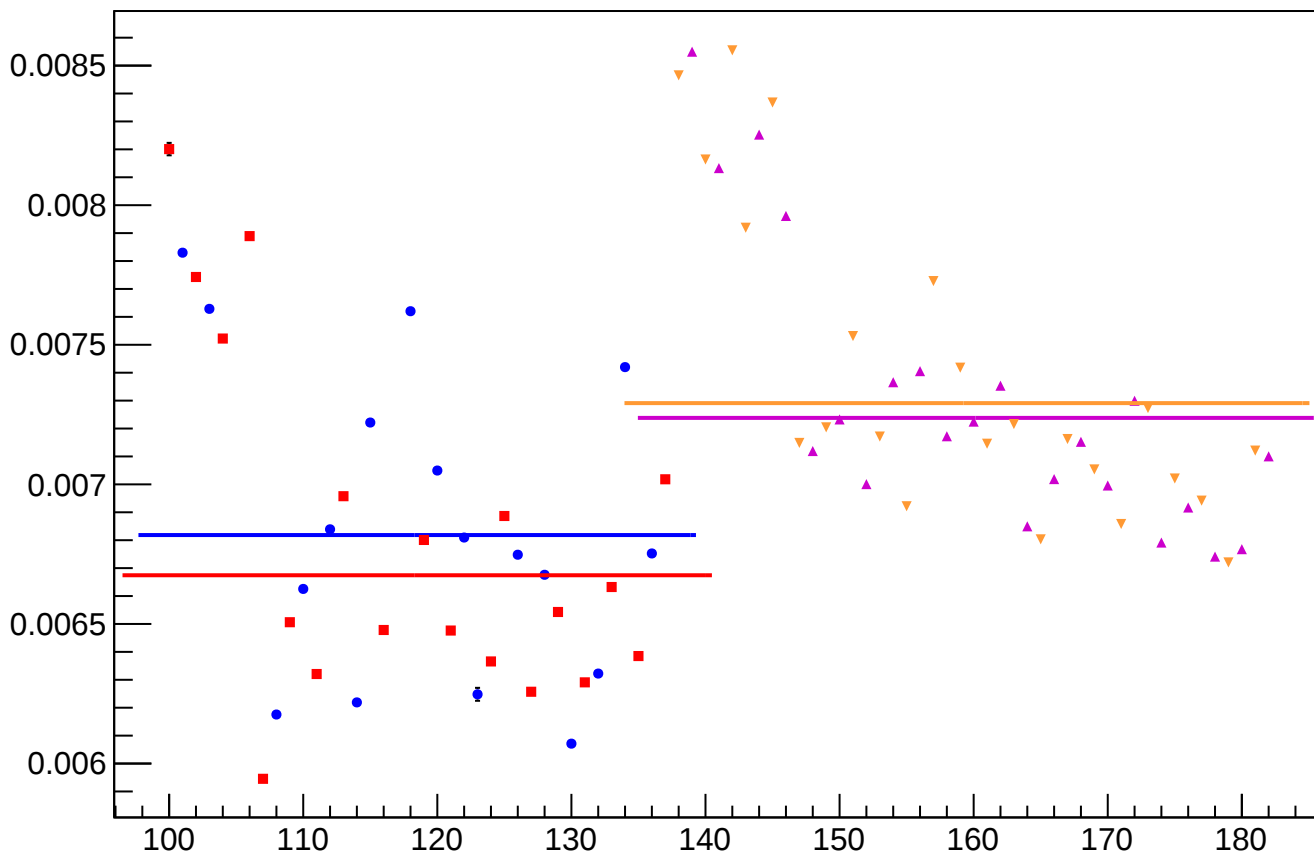
Right: 1.977+/-0.000 χ^2/NDF : 33985983843.8/35

In: 2.388+/-0.000 χ^2/NDF : 84684282557.6/38

Out: 2.328+/-0.000 χ^2/NDF : 106064677739.5/41

All: 2.357+/-0.000 χ^2/NDF : 191558368358.8

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 :137810.2/22

Right Out: 0.007+/-0.000 χ^2/NDF : 76755.5/18

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/21

Left: 0.007+/-0.000 χ^2/NDF : 263915.4/44

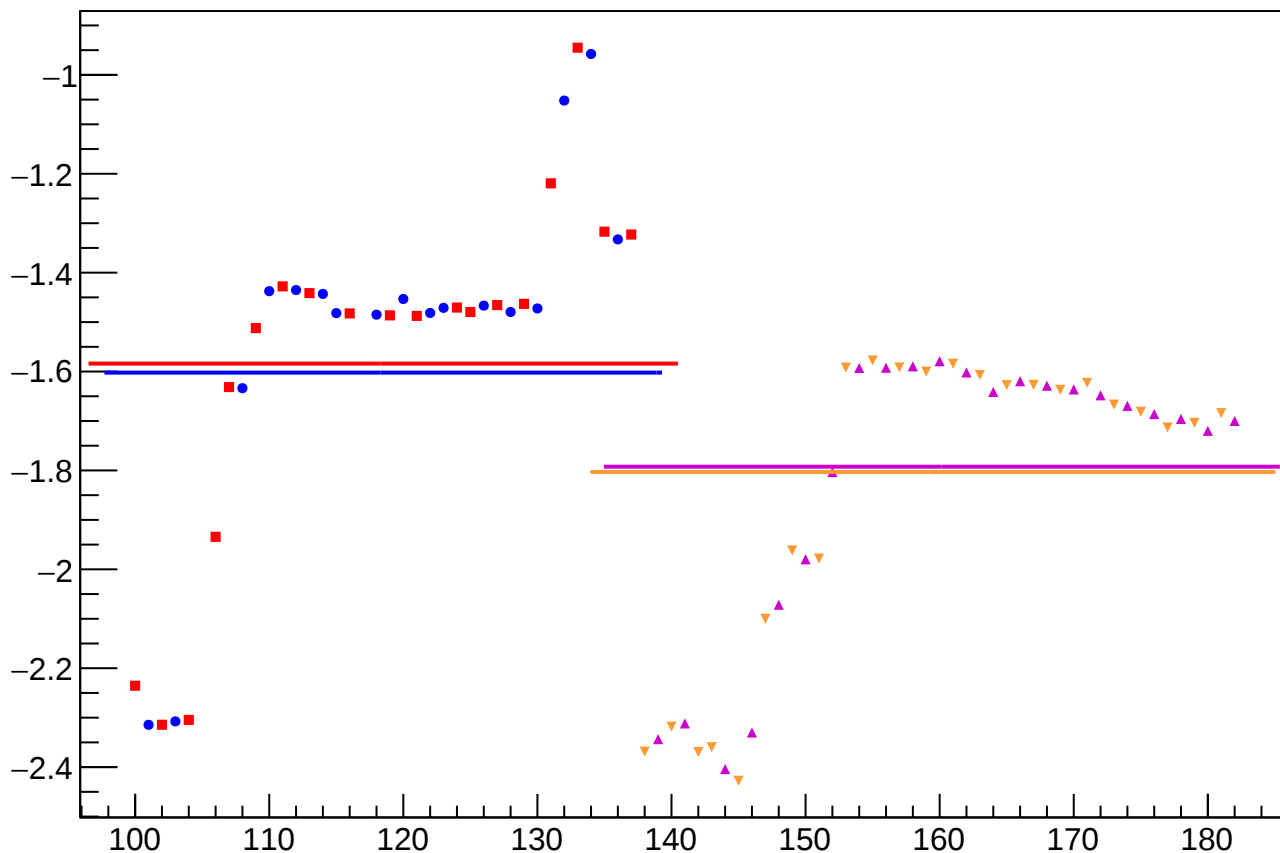
Right: 0.007+/-0.000 χ^2/NDF : 156621.0/35

In: 0.007+/-0.000 χ^2/NDF :235525.6/38

Out: 0.007+/-0.000 χ^2/NDF :292115.4/41

All: 0.007+/-0.000 χ^2/NDF : 527856.5/80

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140170767010.0/16

Left Out: -1.803+/-0.000 χ^2/NDF : 179248367781.1/22

Right Out: -1.584+/-0.000 χ^2/NDF : 143827090276.5/18

Left In: -1.792+/-0.000 χ^2/NDF : 158979786905.1/21

Left: -1.798+/-0.000 χ^2/NDF : 338354948086.4/44

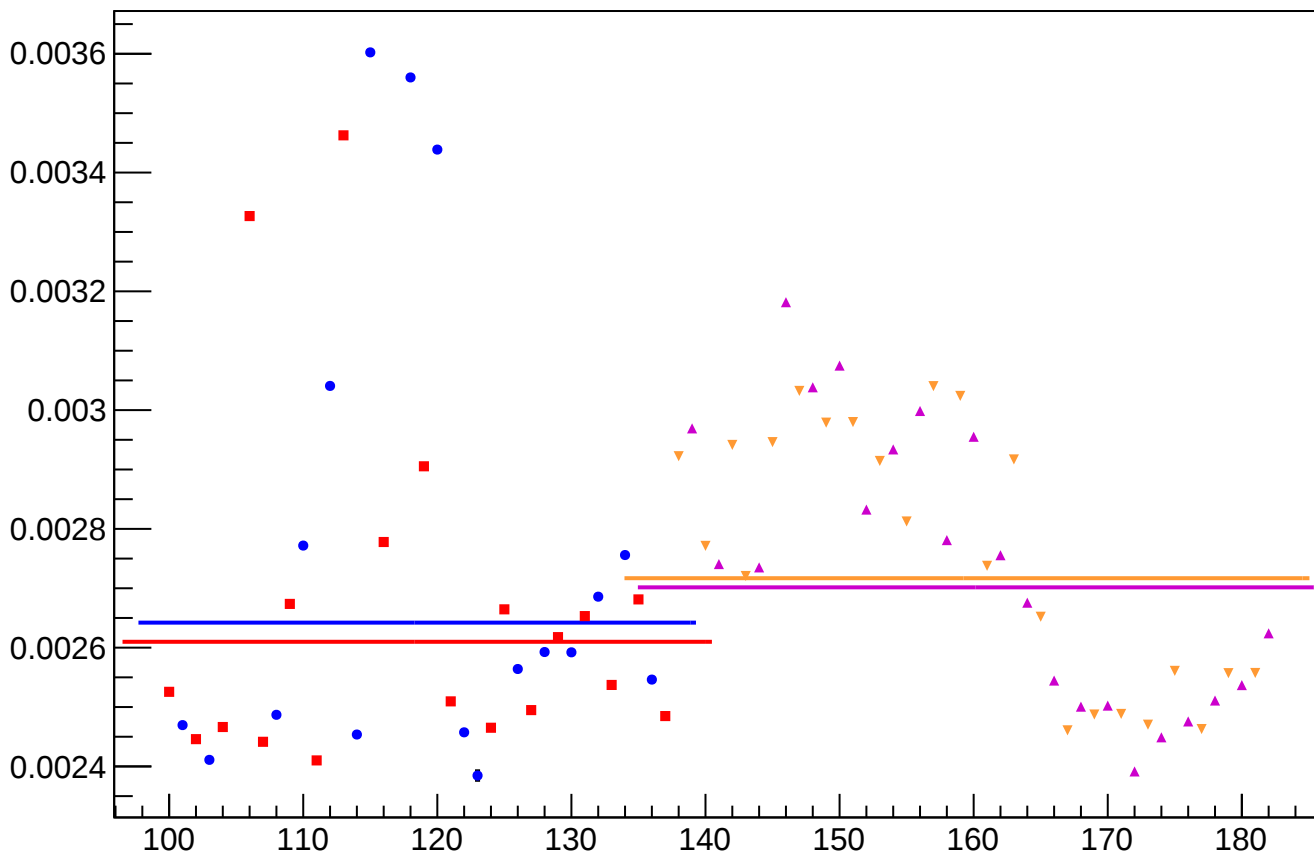
Right: -1.593+/-0.000 χ^2/NDF : 284153928526.3/35

In: -1.738+/-0.000 χ^2/NDF : 322306035117.4/38

Out: -1.736+/-0.000 χ^2/NDF : 355766384617.0/41

All: -1.737+/-0.000 χ^2/NDF : 678075702130.2

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 :199473.8/22

Right Out: 0.003+/-0.000 χ^2/NDF : 104781.3/18

Left In: 0.003+/-0.000 χ^2/NDF :220226.8/21

Left: 0.003+/-0.000 χ^2/NDF : 420231.0/44

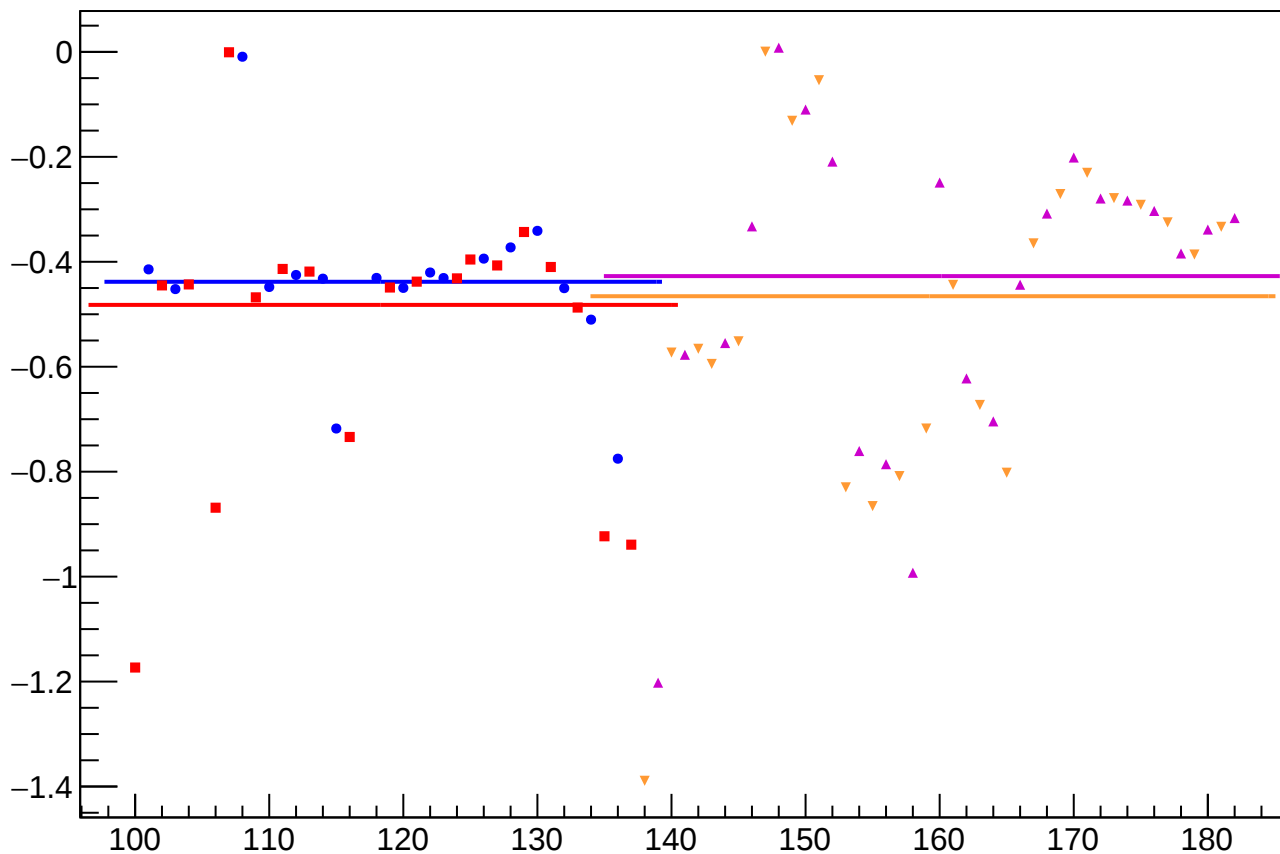
Right: 0.003+/-0.000 χ^2/NDF : 257674.4/35

In: 0.003+/-0.000 χ^2/NDF :376659.8/38

Out: 0.003+/-0.000 χ^2/NDF :319857.3/41

All: 0.003+/-0.000 χ^2/NDF : 696517.2/80

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 ± 0.000 $\chi^2/\text{NDF}: 1461198978.4/16$

Left Out: -0.466 ± 0.000 $\chi^2/\text{NDF}: 9768533350.7/22$

Right Out: -0.482 ± 0.000 $\chi^2/\text{NDF}: 2693383941.7/18$

Left In: -0.427 ± 0.000 $\chi^2/\text{NDF}: 8410769083.5/21$

Left: -0.446 ± 0.000 $\chi^2/\text{NDF}: 18261353239.2/44$

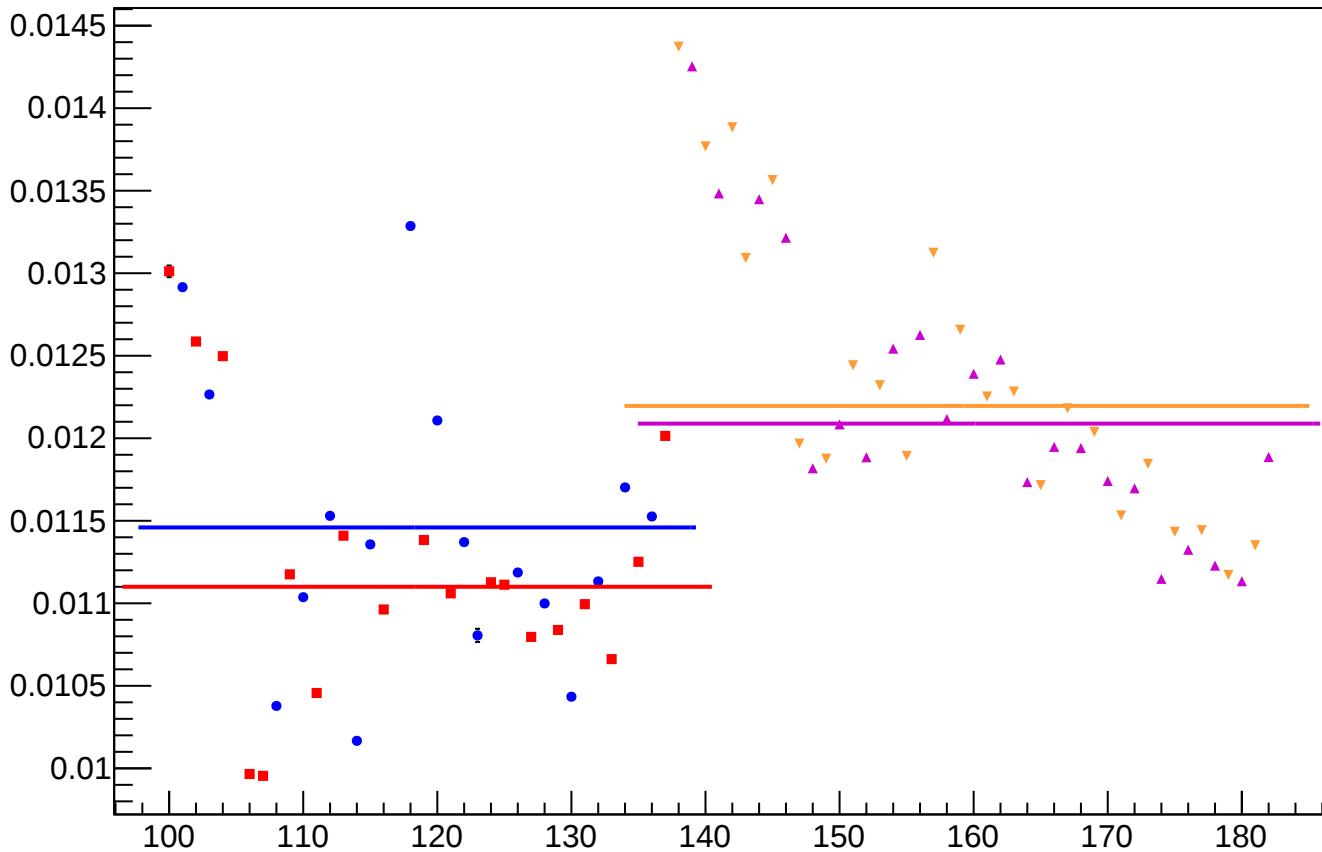
Right: -0.462 ± 0.000 $\chi^2/\text{NDF}: 4205367960.5/35$

In: -0.431 ± 0.000 $\chi^2/\text{NDF}: 9875956992.8/38$

Out: -0.471 ± 0.000 $\chi^2/\text{NDF}: 12472120008.7/41$

All: -0.451 ± 0.000 $\chi^2/\text{NDF}: 22483127352.5/79$

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 :139083.0/22

Right Out: 0.011+/-0.000 χ^2/NDF : 56096.3/18

Left In: 0.012+/-0.000 χ^2/NDF :126698.8/21

Left: 0.012+/-0.000 χ^2/NDF : 267068.4/44

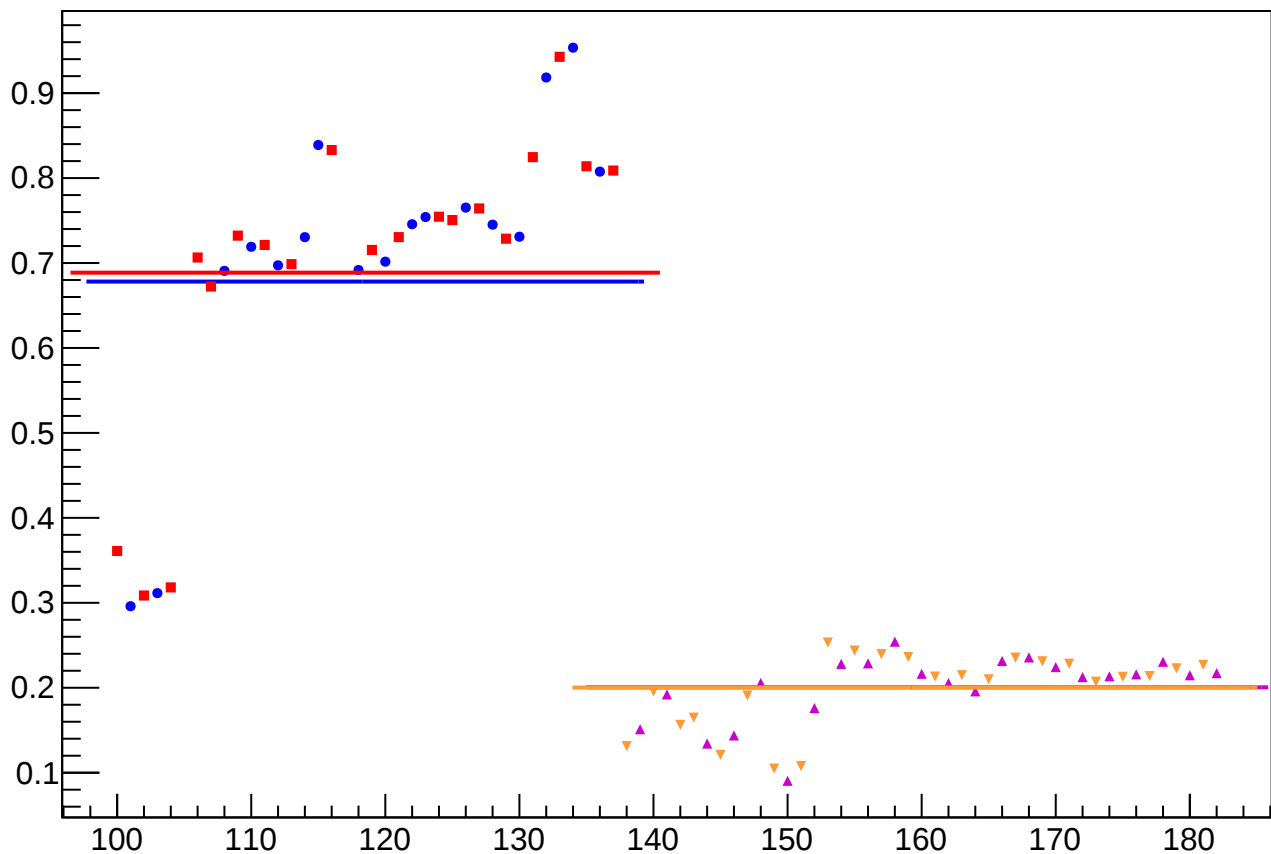
Right: 0.011+/-0.000 χ^2/NDF : 127449.6/35

In: 0.012+/-0.000 χ^2/NDF :218308.3/38

Out: 0.012+/-0.000 χ^2/NDF :284907.4/41

All: 0.012+/-0.000 χ^2/NDF : 503955.4/80

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38485337866.0/16

Left Out: 0.200+/-0.000 χ^2/NDF : 6923023475.3/22

Right Out: 0.689+/-0.000 χ^2/NDF : 35296354242.4/18

Left In: 0.201+/-0.000 χ^2/NDF : 5618395862.4/21

Left: 0.200+/-0.000 χ^2/NDF : 12541535701.9/44

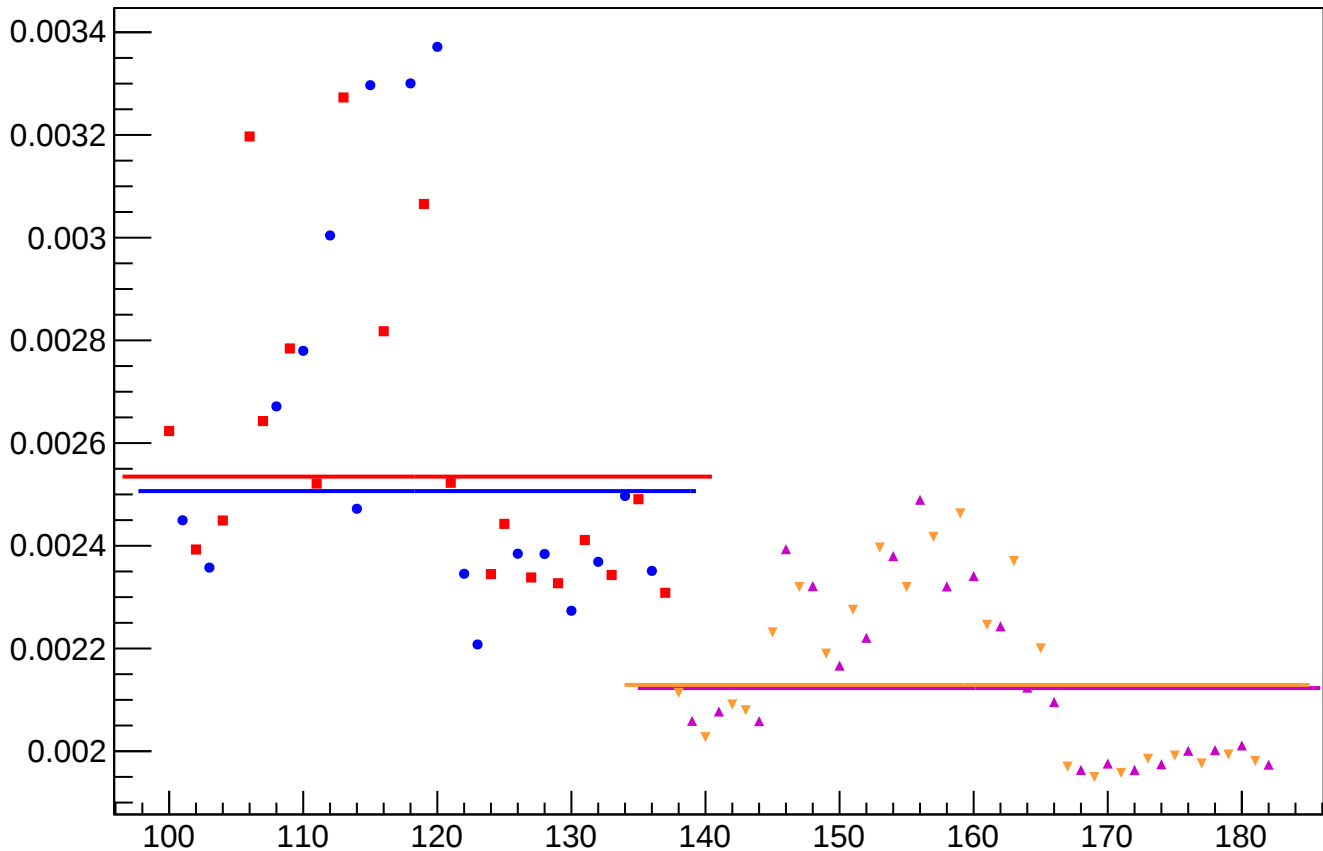
Right: 0.683+/-0.000 χ^2/NDF : 73838176834.0/35

In: 0.302+/-0.000 χ^2/NDF : 225517212017.2/38

Out: 0.306+/-0.000 χ^2/NDF : 236677148137.7/41

All: 0.304+/-0.000 χ^2/NDF : 462222625991.3

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 174398.1/16

Left Out: 0.002+/-0.000 χ^2/NDF : 205733.5/22

Right Out: 0.003+/-0.000 χ^2/NDF : 131675.7/18

Left In: 0.002+/-0.000 χ^2/NDF : 185359.9/21

Left: 0.002+/-0.000 χ^2/NDF : 391237.3/44

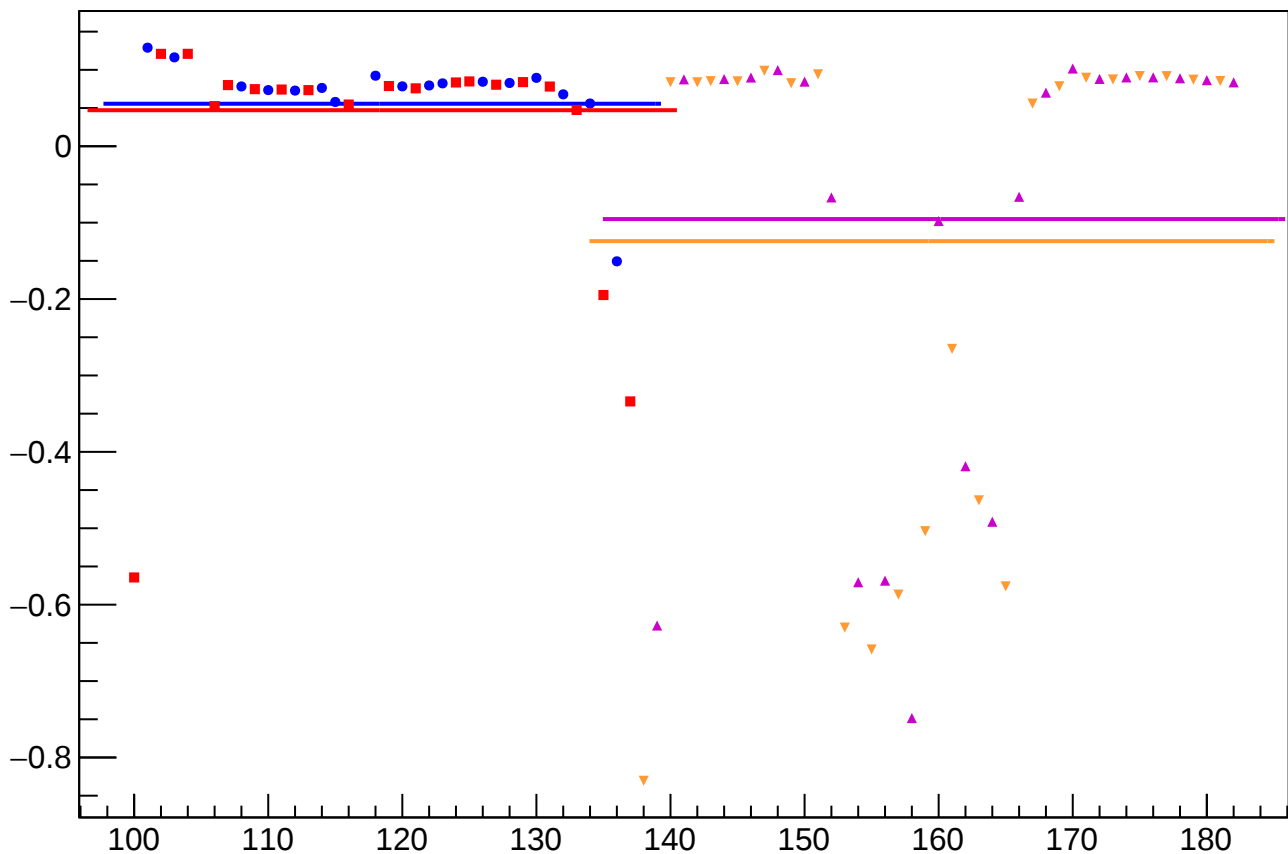
Right: 0.003+/-0.000 χ^2/NDF : 306887.9/35

In: 0.002+/-0.000 χ^2/NDF : 593726.0/38

Out: 0.002+/-0.000 χ^2/NDF : 605587.9/41

All: 0.002+/-0.000 χ^2/NDF : 1200006.3/80

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 422754930.4/16

Left: -0.110+/-0.000

χ^2/NDF : 24380363279.0/44

Left Out: -0.124+/-0.000

χ^2/NDF : 13336413104.4/22

Right: 0.051+/-0.000

χ^2/NDF : 1244662333.3/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819330612.8/18

In: -0.046+/-0.000

χ^2/NDF : 12435951505.4/38

Out: -0.062+/-0.000

χ^2/NDF : 15604959098.6/41

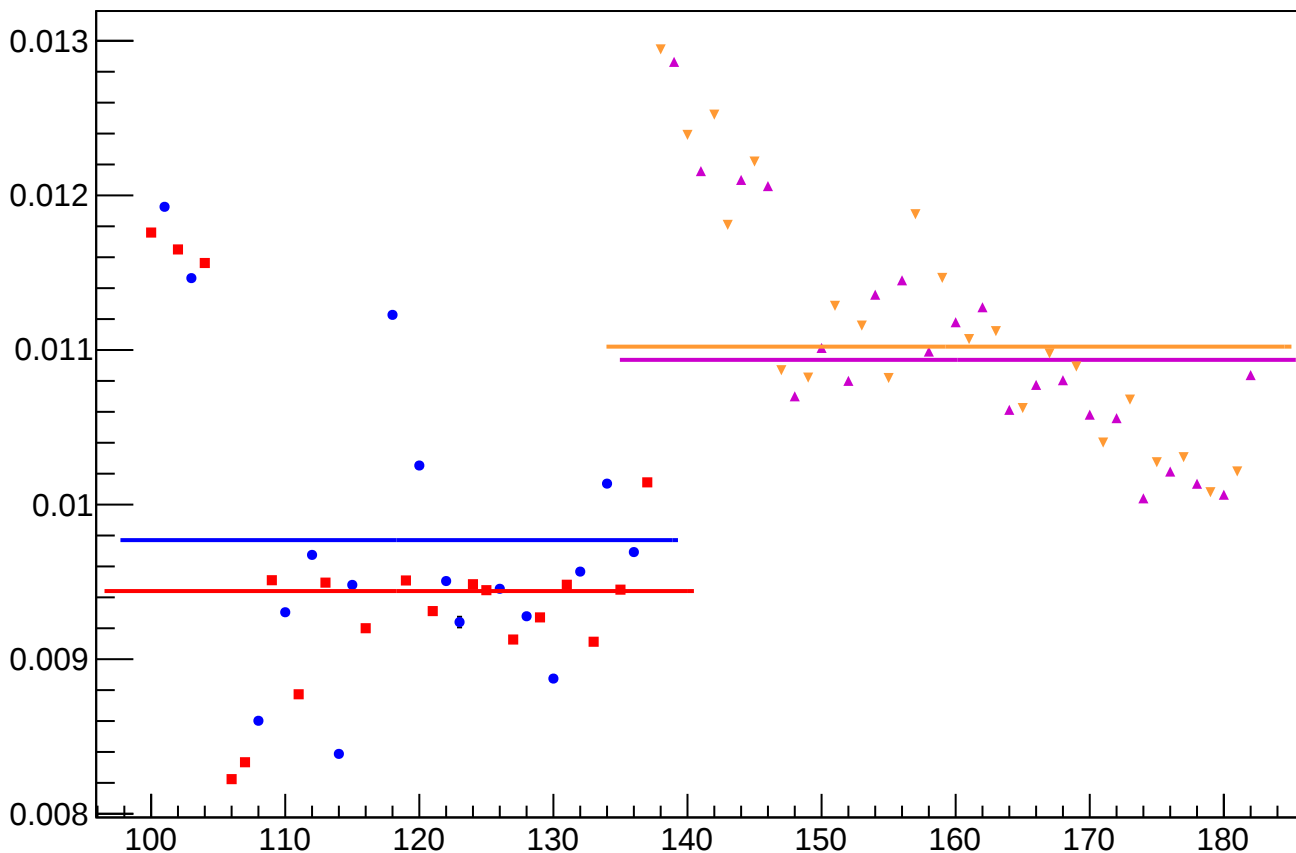
Left In: -0.095+/-0.000

χ^2/NDF : 10986955187.2/21

All: -0.054+/-0.000

χ^2/NDF : 28070639913.6/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116013.9/16

Left Out: 0.011+/-0.000 χ^2/NDF :138991.1/22

Right Out: 0.009+/-0.000 χ^2/NDF : 110651.6/18

Left In: 0.011+/-0.000 χ^2/NDF :128571.3/21

Left: 0.011+/-0.000 χ^2/NDF : 268562.7/44

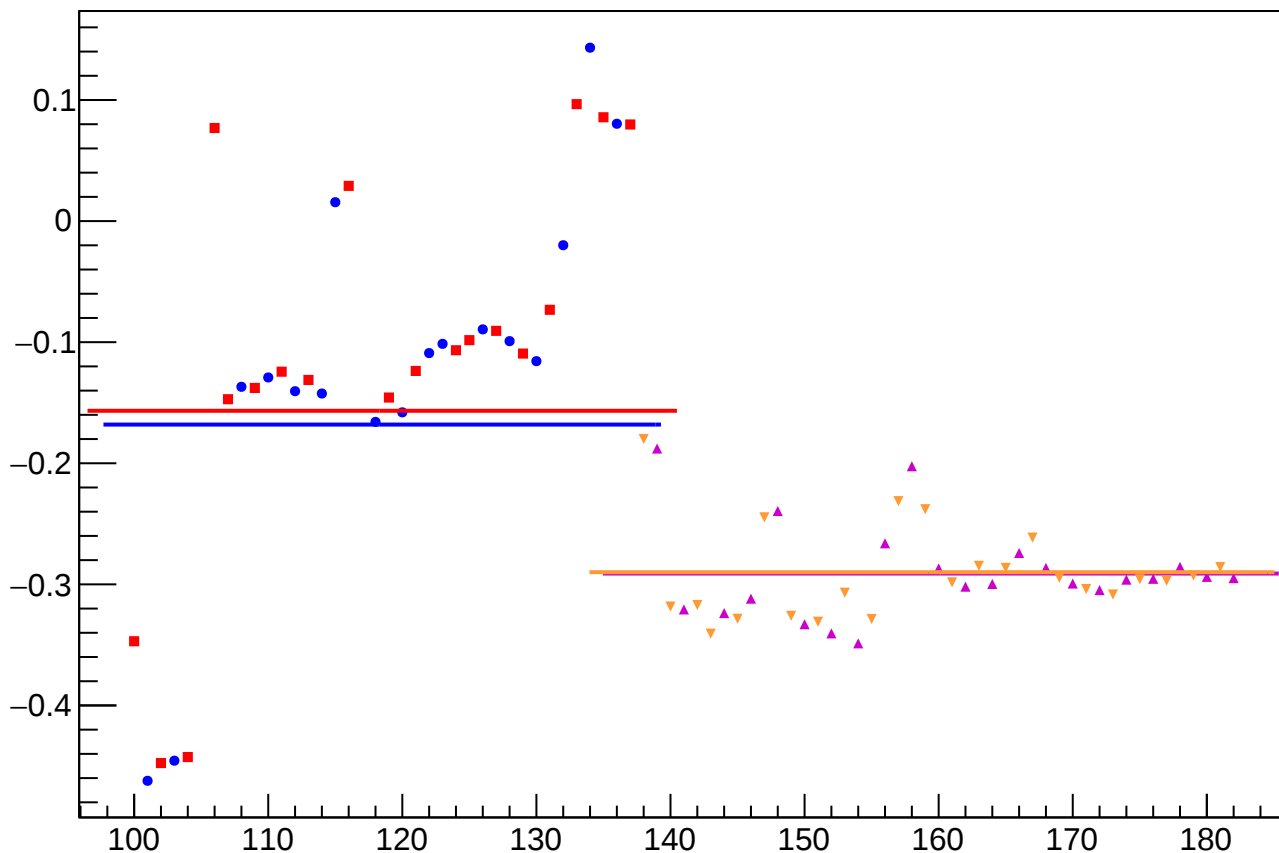
Right: 0.010+/-0.000 χ^2/NDF : 234461.4/35

In: 0.011+/-0.000 χ^2/NDF :367062.9/38

Out: 0.010+/-0.000 χ^2/NDF :496421.7/41

All: 0.011+/-0.000 χ^2/NDF : 865568.5/80

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 : 2859318767.3/22

Right Out: -0.157+/-0.000 χ^2/NDF : 11031837915.5/18

Left In: -0.291+/-0.000 χ^2/NDF : 3125212138.5/21

Left: -0.290+/-0.000 χ^2/NDF : 5985944620.9/44

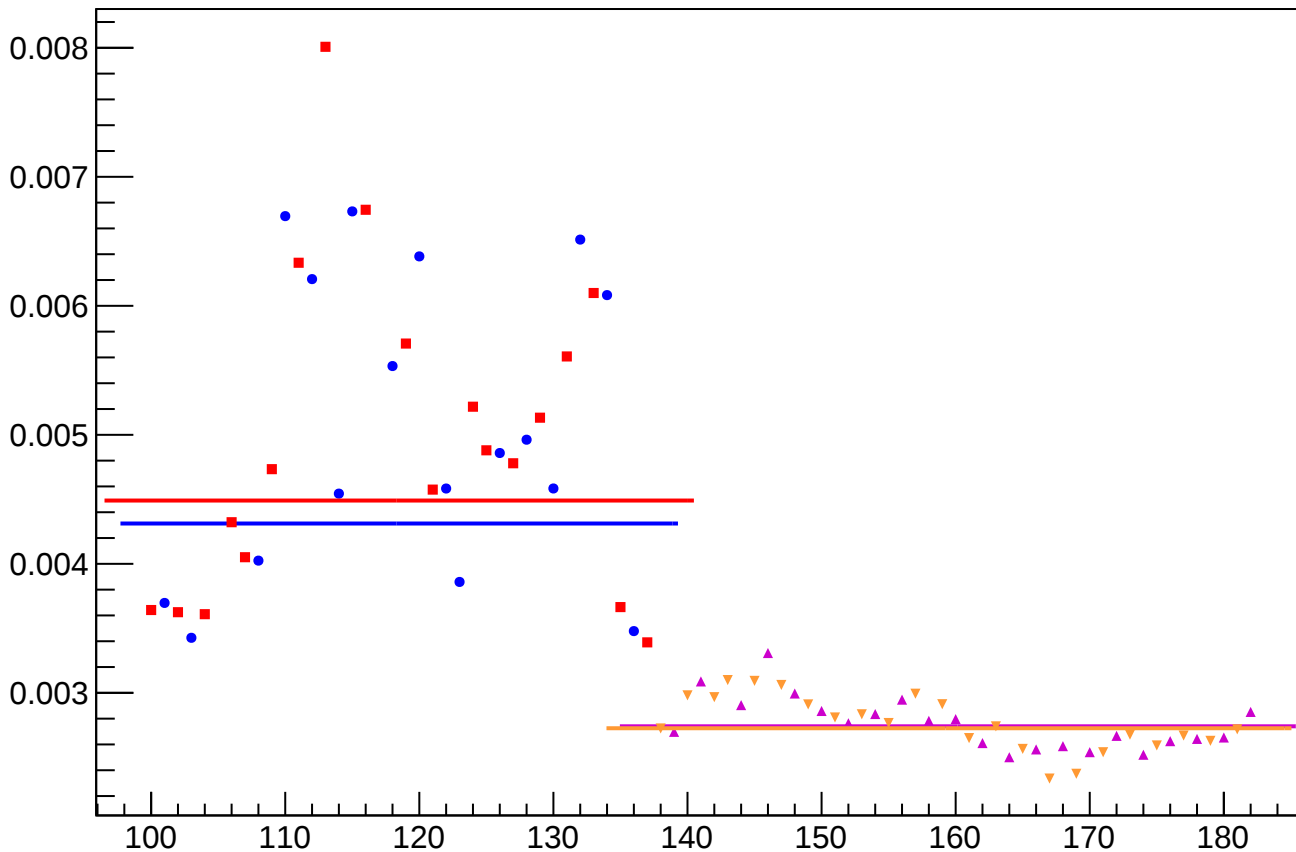
Right: -0.162+/-0.000 χ^2/NDF : 23382079796.3/35

In: -0.276+/-0.000 χ^2/NDF : 19573146322.0/38

Out: -0.274+/-0.000 χ^2/NDF : 18698665396.4/41

All: -0.275+/-0.000 χ^2/NDF : 38275897079.1/44

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 :198826.5/22

Right Out: 0.004+/-0.000 χ^2/NDF : 639258.5/18

Left In: 0.003+/-0.000 χ^2/NDF :146866.1/21

Left: 0.003+/-0.000 χ^2/NDF : 346195.4/44

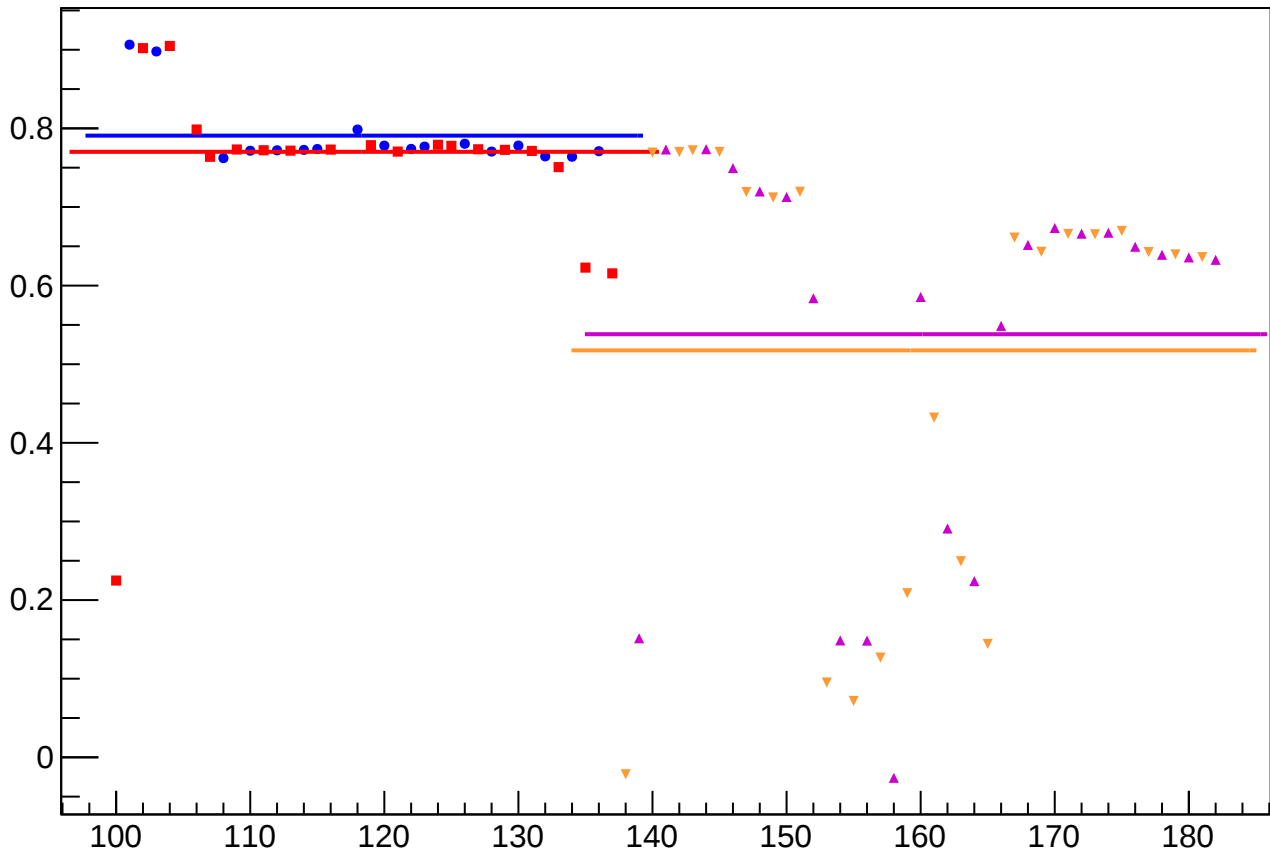
Right: 0.004+/-0.000 χ^2/NDF : 1267420.4/35

In: 0.003+/-0.000 χ^2/NDF :2109670.4/38

Out: 0.003+/-0.000 χ^2/NDF :2524386.8/41

All: 0.003+/-0.000 χ^2/NDF : 4634059.5/80

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106680493.2/16

Left Out: 0.518 $\pm$ 0.000 χ^2 /NDF: 9480653183.0/22

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375430167.7/18

Left In: 0.538 $\pm$ 0.000 χ^2 /NDF: 7840689878.3/21

Left: 0.528 $\pm$ 0.000 χ^2 /NDF: 17351844629.5/44

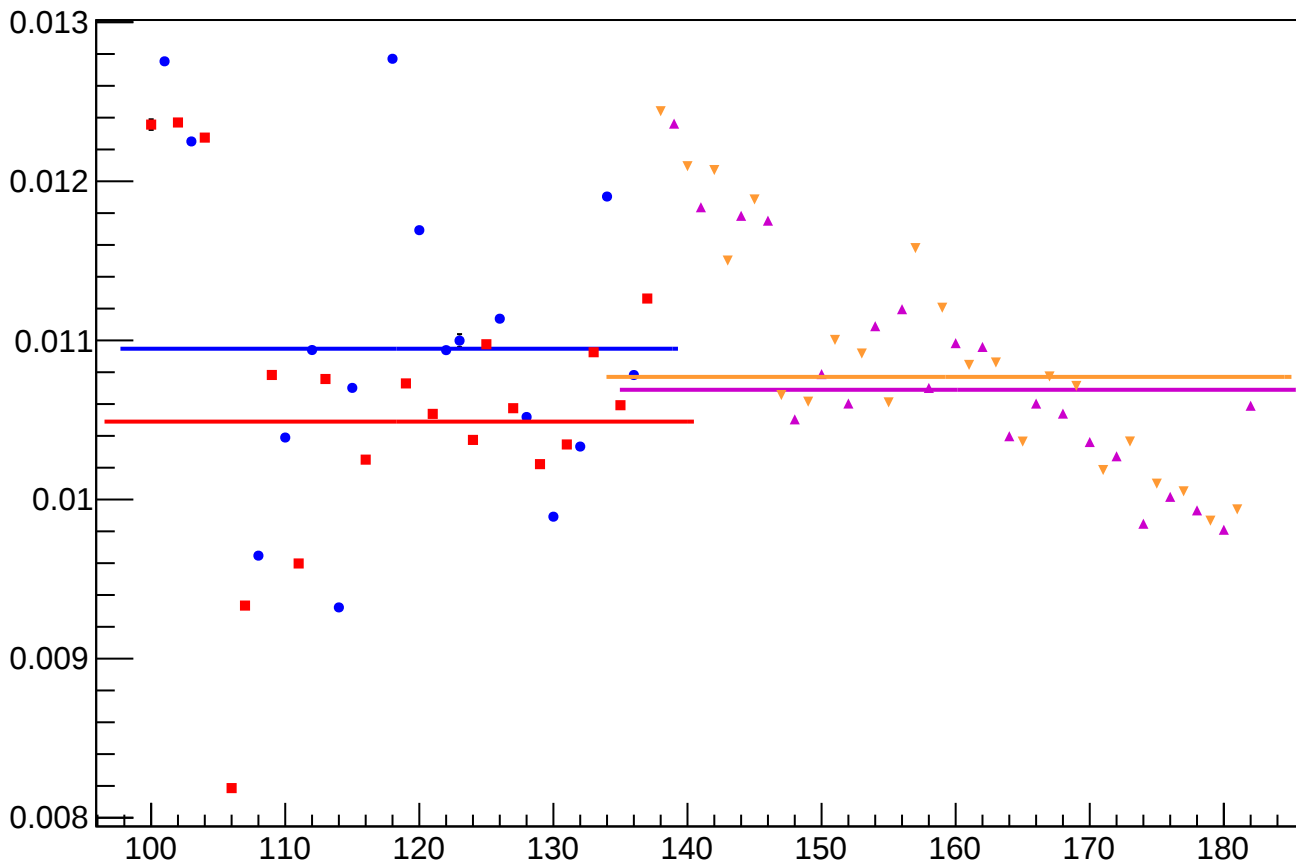
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494308734.2/35

In: 0.607 $\pm$ 0.000 χ^2 /NDF: 10437347230.3/38

Out: 0.594 $\pm$ 0.000 χ^2 /NDF: 12638043259.6/41

All: 0.600 $\pm$ 0.000 χ^2 /NDF: 23091908842.8/80

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 98019.2/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:129291.7/22

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 119502.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:119010.0/21

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 249247.5/44

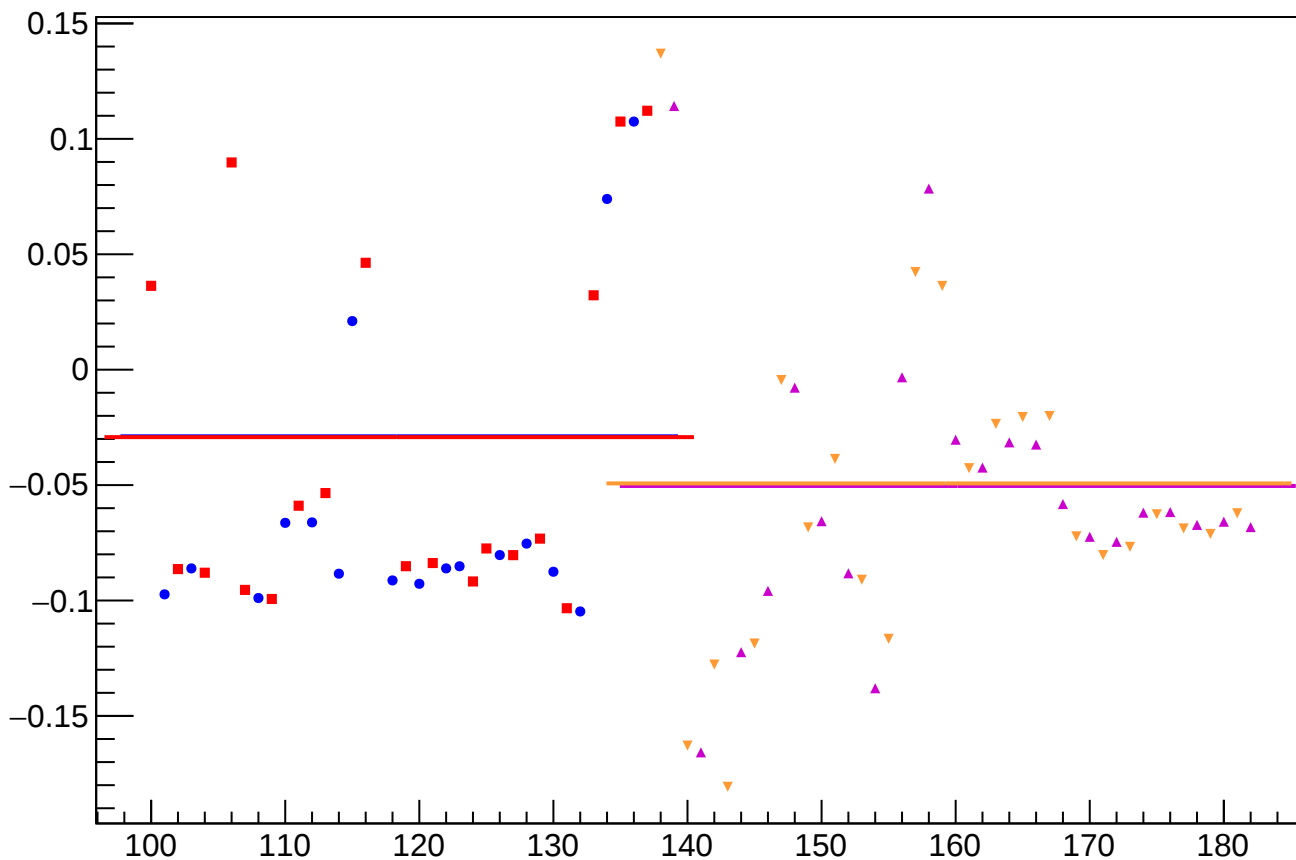
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 229626.3/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:222228.1/38

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:255681.2/41

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 479014.3/80

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.000 $\chi^2/\text{NDF}: 2444911330.9/16$

Left Out: -0.049 ± 0.000 $\chi^2/\text{NDF}: 7186973240.0/22$

Right Out: -0.029 ± 0.000 $\chi^2/\text{NDF}: 2120368017.0/18$

Left In: -0.050 ± 0.000 $\chi^2/\text{NDF}: 6122483703.4/21$

Left: -0.050 ± 0.000 $\chi^2/\text{NDF}: 13310560316.6/44$

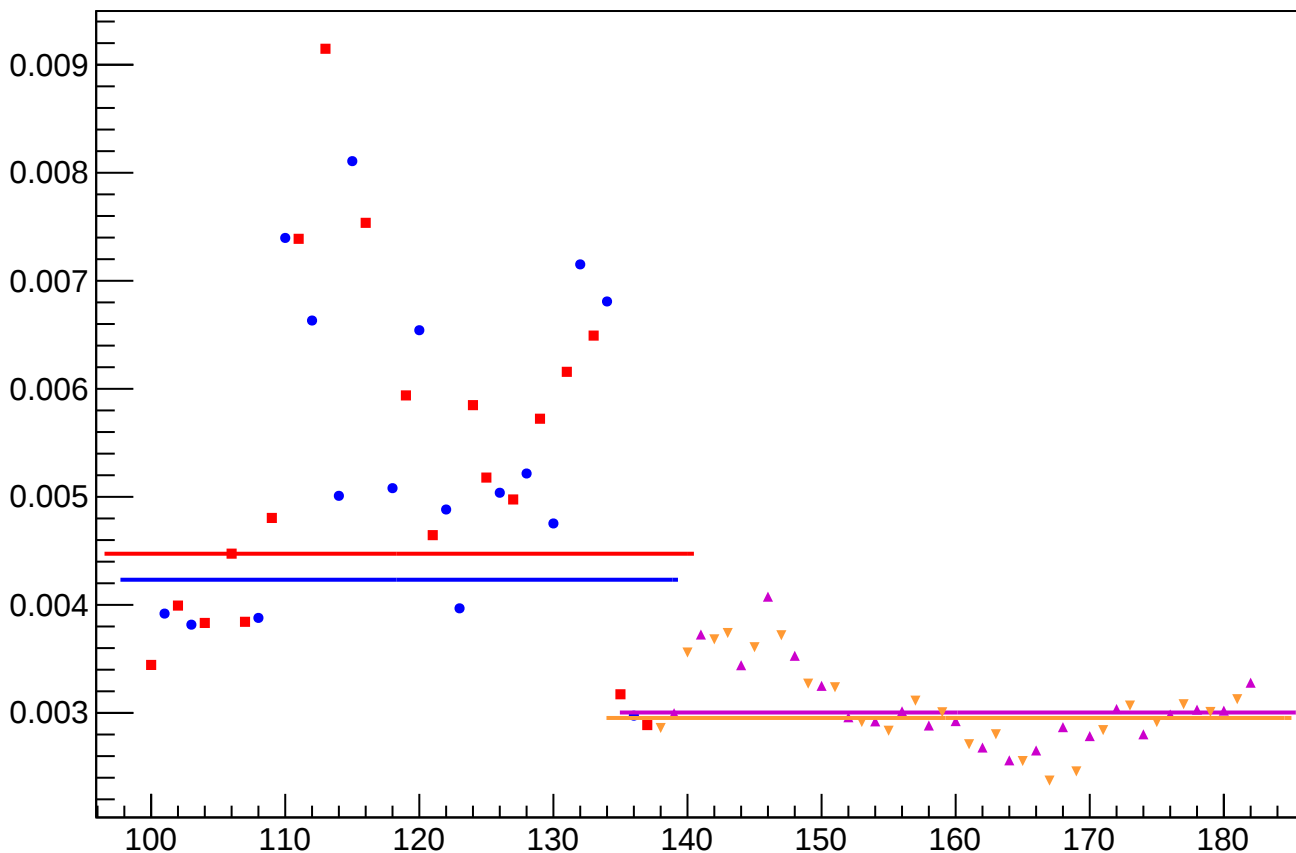
Right: -0.029 ± 0.000 $\chi^2/\text{NDF}: 4565297950.1/35$

In: -0.047 ± 0.000 $\chi^2/\text{NDF}: 8687336496.6/38$

Out: -0.047 ± 0.000 $\chi^2/\text{NDF}: 9408631846.1/41$

All: -0.047 ± 0.000 $\chi^2/\text{NDF}: 18096419043.3/85$

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 877339.5/16

Left Out: 0.003+/-0.000 χ^2/NDF : 472927.7/22

Right Out: 0.004+/-0.000 χ^2/NDF : 969342.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 325959.6/21

Left: 0.003+/-0.000 χ^2/NDF : 803487.1/44

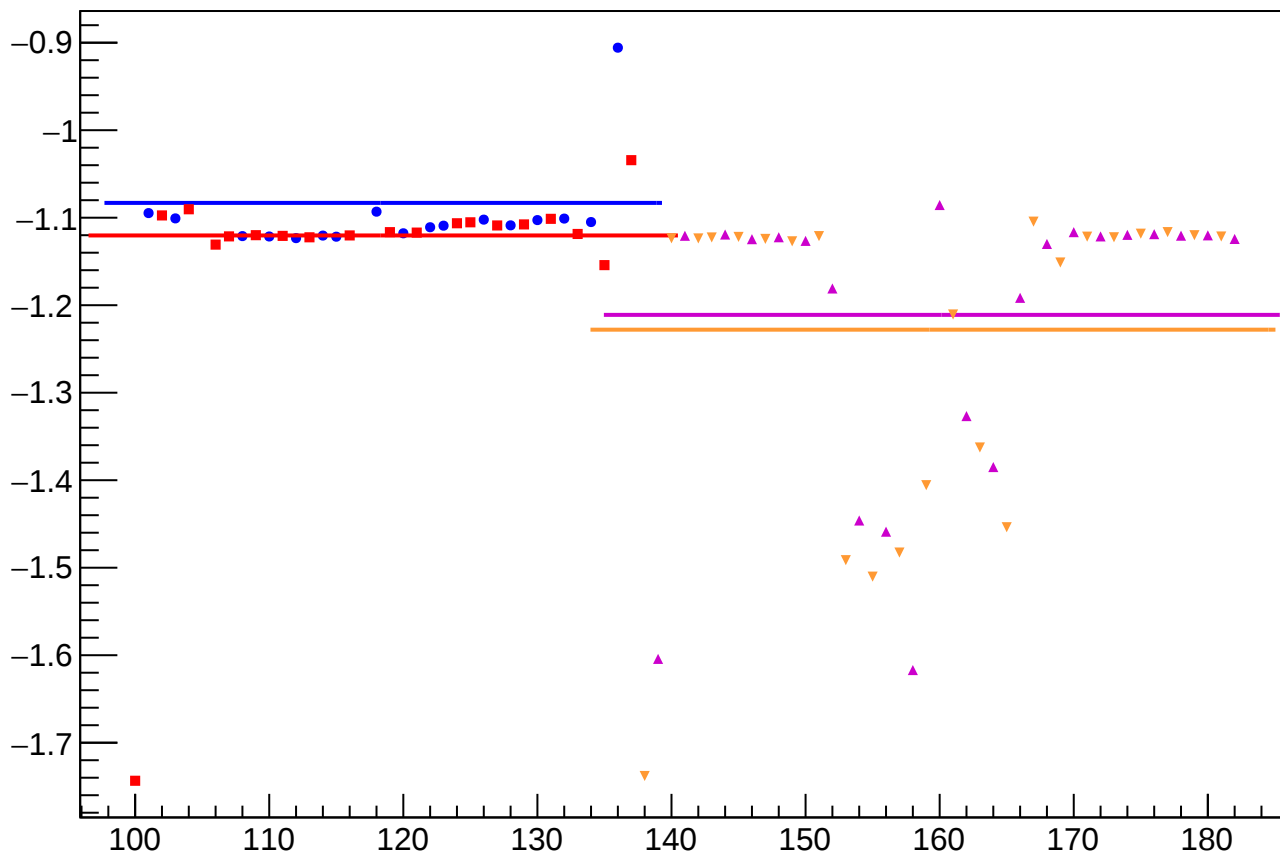
Right: 0.004+/-0.000 χ^2/NDF : 1863934.2/35

In: 0.003+/-0.000 χ^2/NDF : 1986629.6/38

Out: 0.003+/-0.000 χ^2/NDF : 2607011.4/41

All: 0.003+/-0.000 χ^2/NDF : 4594999.9/80

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083 ± 0.000 $\chi^2/\text{NDF}: 202851874.4/16$

Left Out: -1.228 ± 0.000 $\chi^2/\text{NDF}: 5167539395.6/22$

Right Out: -1.120 ± 0.000 $\chi^2/\text{NDF}: 220508408.4/18$

Left In: -1.211 ± 0.000 $\chi^2/\text{NDF}: 4480678175.6/21$

Left: -1.220 ± 0.000 $\chi^2/\text{NDF}: 9673783880.1/44$

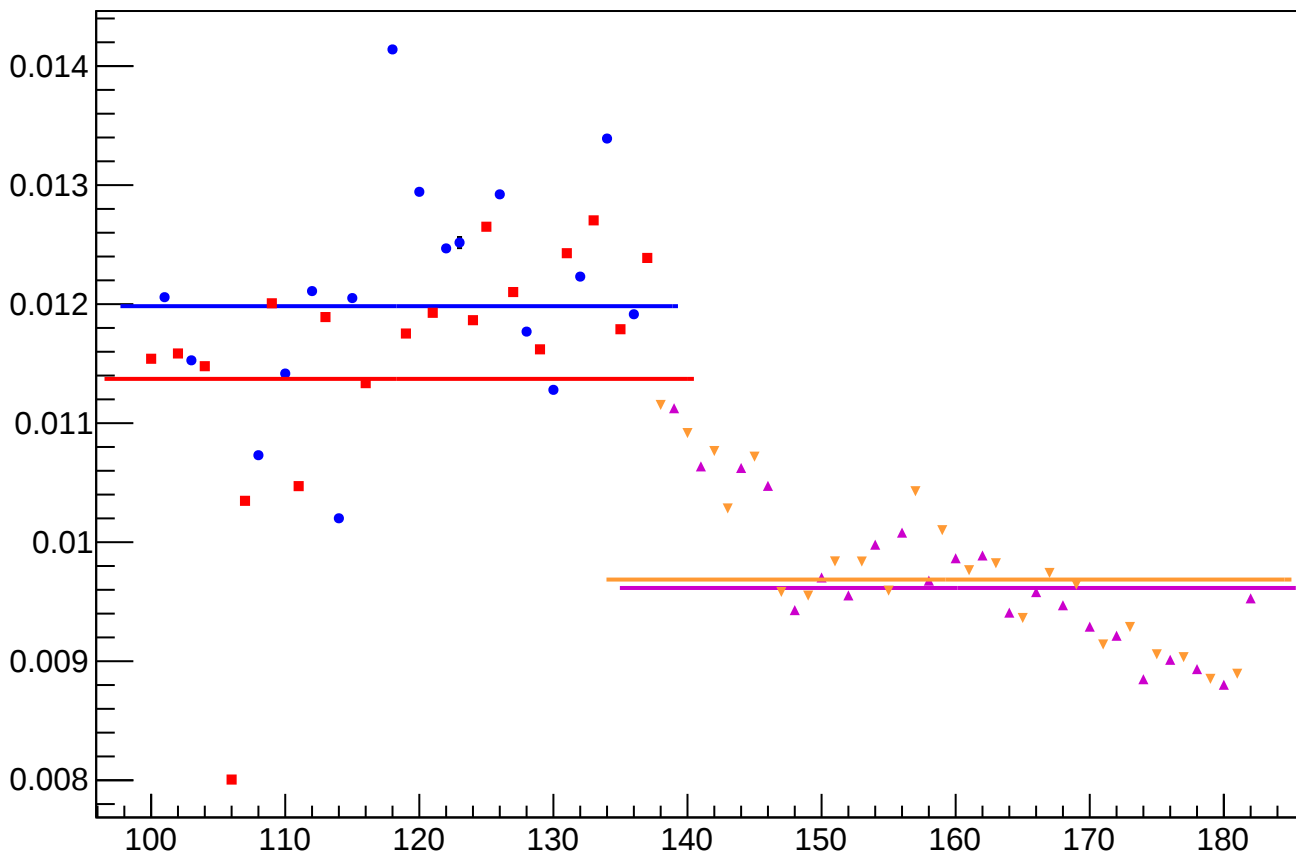
Right: -1.103 ± 0.000 $\chi^2/\text{NDF}: 456843121.6/35$

In: -1.185 ± 0.000 $\chi^2/\text{NDF}: 5268690841.8/38$

Out: -1.203 ± 0.000 $\chi^2/\text{NDF}: 5860651676.2/41$

All: -1.195 ± 0.000 $\chi^2/\text{NDF}: 11166294405.2/74$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 58835.2/16

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF : 132609.6/22

Right Out: 0.011 $\pm$ 0.000 χ^2/NDF : 152861.8/18

Left In: 0.010 $\pm$ 0.000 χ^2/NDF : 119761.1/21

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 253264.9/44

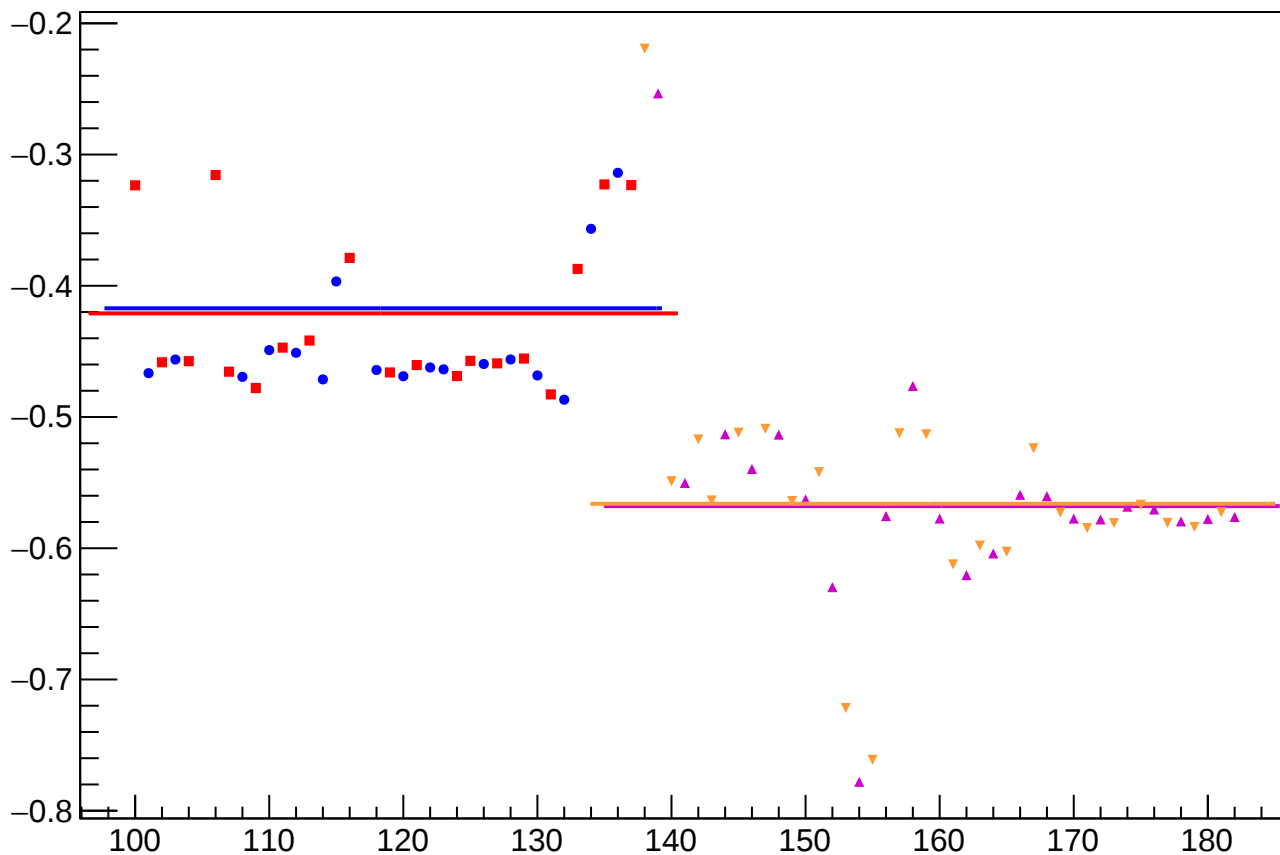
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 229751.2/35

In: 0.010 $\pm$ 0.000 χ^2/NDF : 579145.0/38

Out: 0.010 $\pm$ 0.000 χ^2/NDF : 517171.2/41

All: 0.010 $\pm$ 0.000 χ^2/NDF : 1096403.4/80

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2038520950.9/16

Left Out: -0.566+/-0.000 χ^2/NDF : 13358156513.0/22

Right Out: -0.421+/-0.000 χ^2/NDF : 1654624022.3/18

Left In: -0.568+/-0.000 χ^2/NDF : 10457708668.9/21

Left: -0.567+/-0.000 χ^2/NDF : 23818291920.1/44

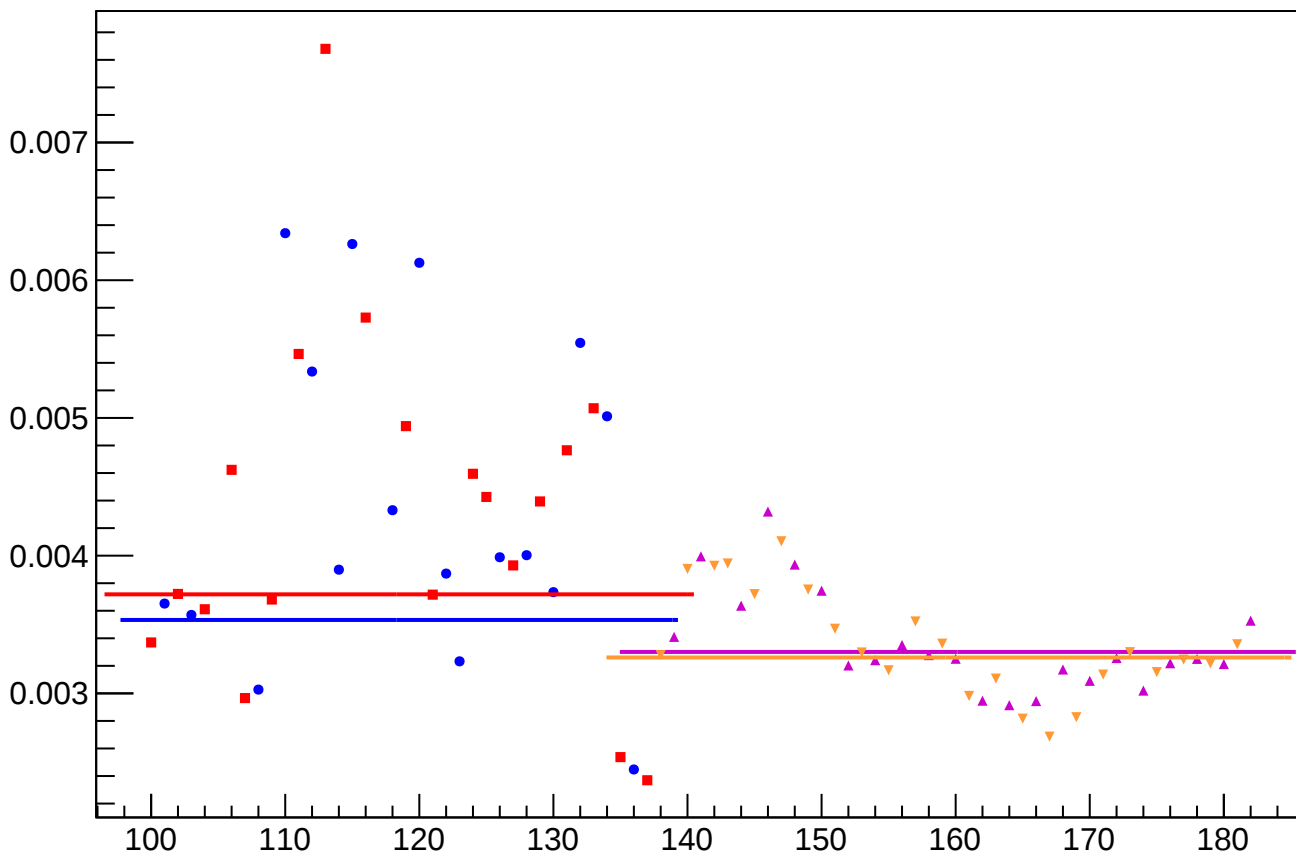
Right: -0.419+/-0.000 χ^2/NDF : 3696346160.6/35

In: -0.533+/-0.000 χ^2/NDF : 20098581931.1/38

Out: -0.535+/-0.000 χ^2/NDF : 21984546222.0/41

All: -0.534+/-0.000 χ^2/NDF : 42084873400.0/75

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 831496.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :376144.3/22

Right Out: 0.004+/-0.000 χ^2/NDF : 884778.0/18

Left In: 0.003+/-0.000 χ^2/NDF :284223.3/21

Left: 0.003+/-0.000 χ^2/NDF : 662783.0/44

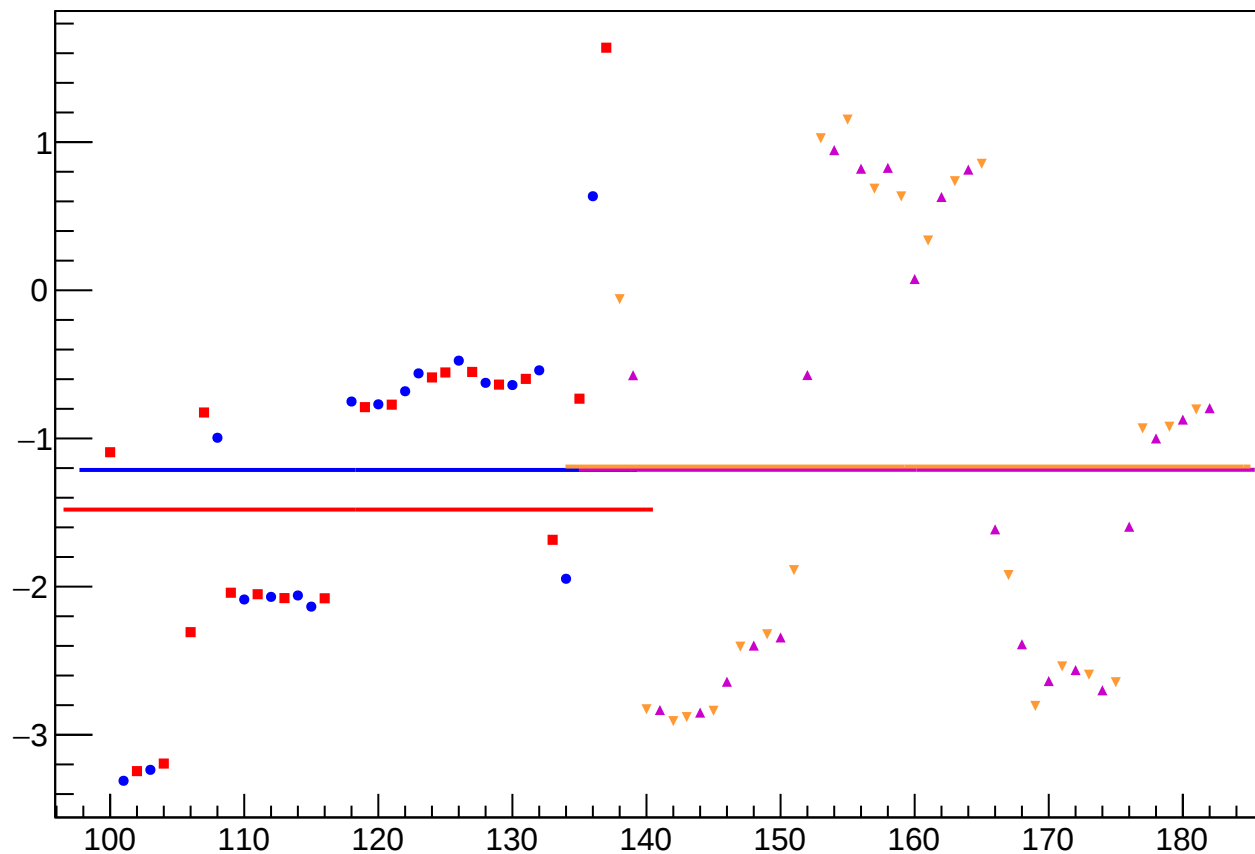
Right: 0.004+/-0.000 χ^2/NDF : 1731087.2/35

In: 0.003+/-0.000 χ^2/NDF :1151819.9/38

Out: 0.003+/-0.000 χ^2/NDF :1400160.5/41

All: 0.003+/-0.000 χ^2/NDF : 2552044.9/80

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.213+/-0.000 χ^2/NDF : 1991015908.7/16

Left Out: -1.190+/-0.000 χ^2/NDF : 6782368227.1/22

Right Out: -1.480+/-0.000 χ^2/NDF : 1576057924.8/18

Left In: -1.211+/-0.000 χ^2/NDF : 5593180145.1/21

Left: -1.200+/-0.000 χ^2/NDF : 12376304290.4/44

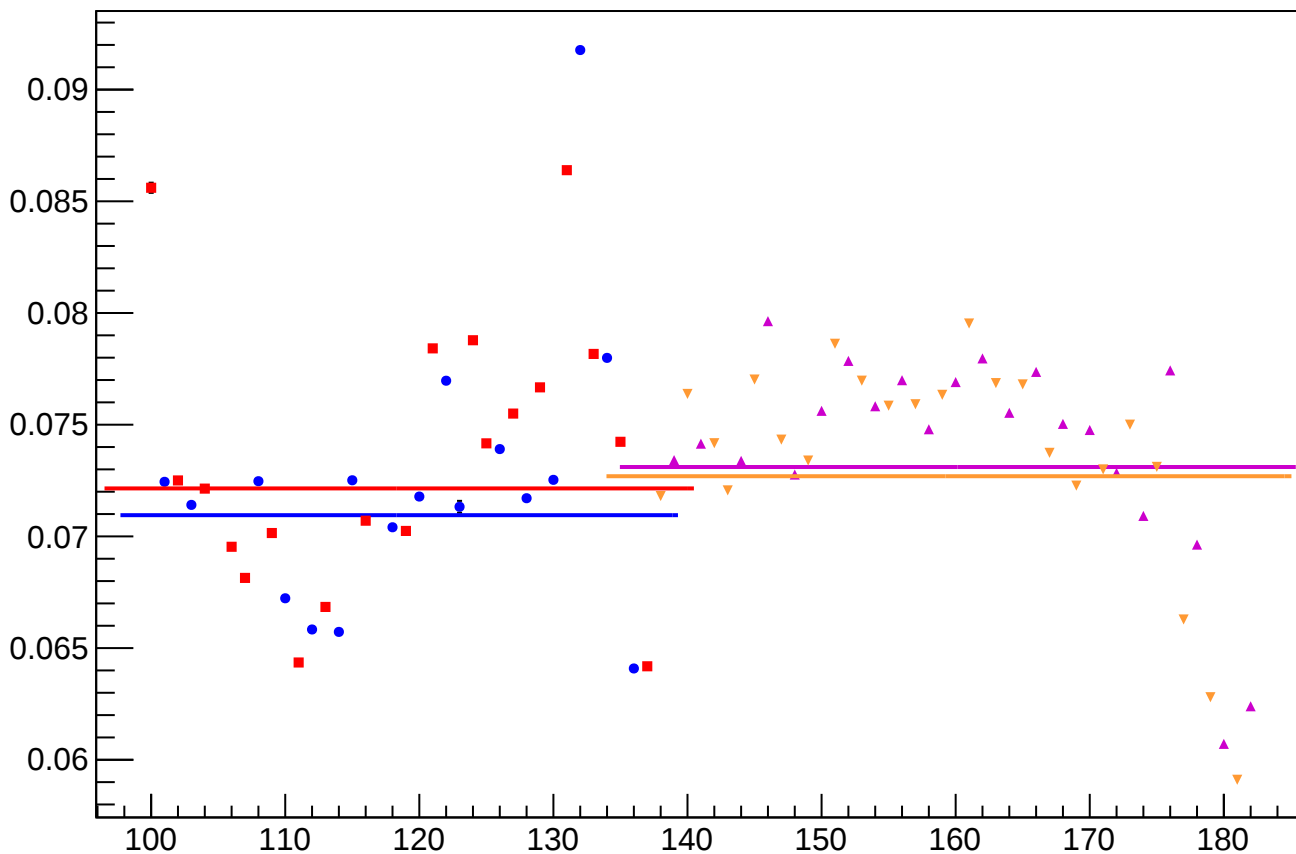
Right: -1.348+/-0.000 χ^2/NDF : 3614167453.1/35

In: -1.212+/-0.000 χ^2/NDF : 7584197211.9/38

Out: -1.274+/-0.000 χ^2/NDF : 8437978829.2/41

All: -1.244+/-0.000 χ^2/NDF : 16031010048.9/78

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77148.7/16

Left Out: 0.073+/-0.000 χ^2/NDF :193026.4/22

Right Out: 0.072+/-0.000 χ^2/NDF : 69021.6/18

Left In: 0.073+/-0.000 χ^2/NDF :168156.8/21

Left: 0.073+/-0.000 χ^2/NDF : 361723.6/44

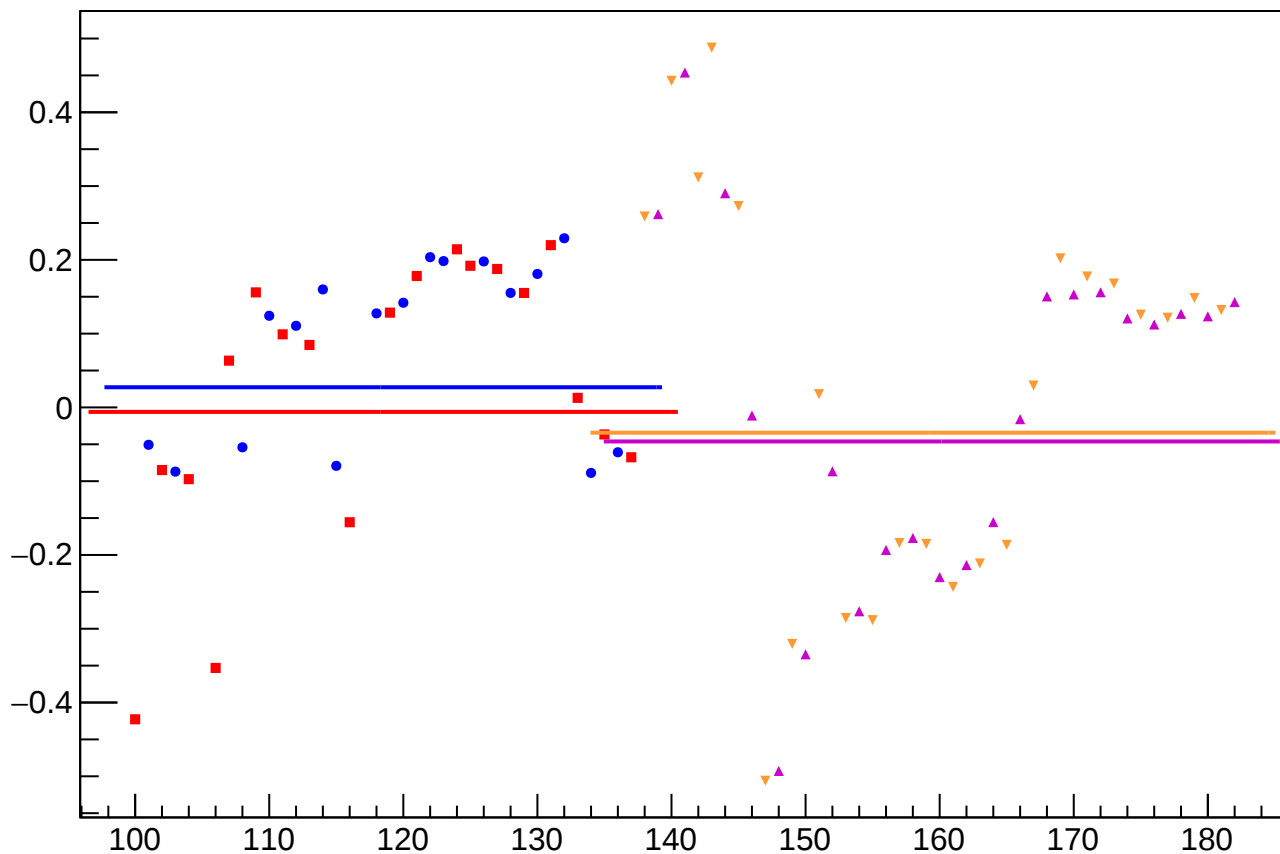
Right: 0.072+/-0.000 χ^2/NDF : 148058.9/35

In: 0.072+/-0.000 χ^2/NDF :253845.6/38

Out: 0.073+/-0.000 χ^2/NDF :262610.4/41

All: 0.073+/-0.000 χ^2/NDF : 516473.2/80

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562065478.3/16

Left: -0.040+/-0.000

χ^2/NDF : 35411876424.9/44

Left Out: -0.034+/-0.000

χ^2/NDF : 19807014132.2/22

Right: 0.011+/-0.000

χ^2/NDF : 1791947690.0/35

Right Out: -0.006+/-0.000

χ^2/NDF : 1205303430.4/18

In: -0.038+/-0.000

χ^2/NDF : 16351520246.5/38

Left In: -0.046+/-0.000

χ^2/NDF : 15580032462.2/21

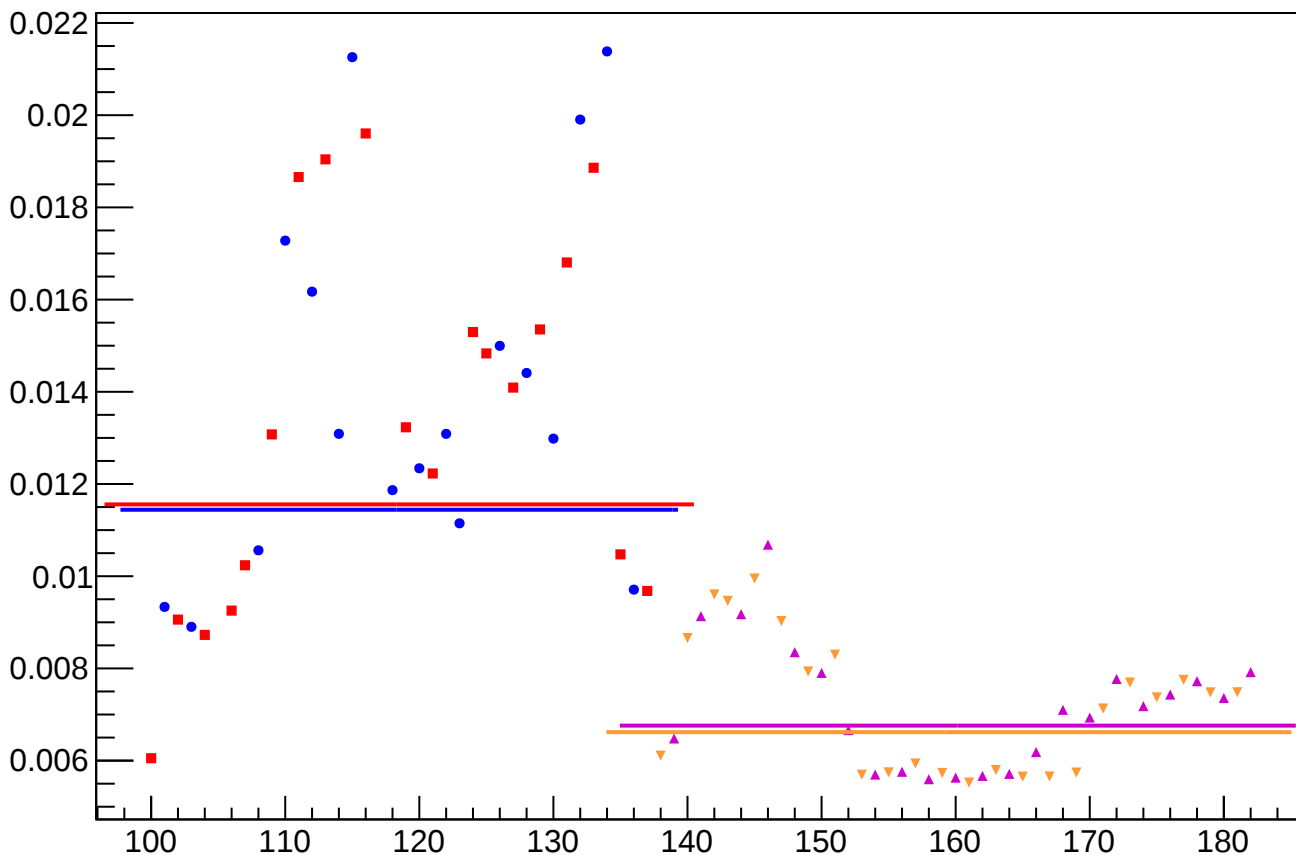
Out: -0.031+/-0.000

χ^2/NDF : 21043721097.9/41

All: -0.034+/-0.000

χ^2/NDF : 37403842564.9/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 673738.1/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1083252.8/22

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 979298.5/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:924538.3/21

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 2014888.0/44

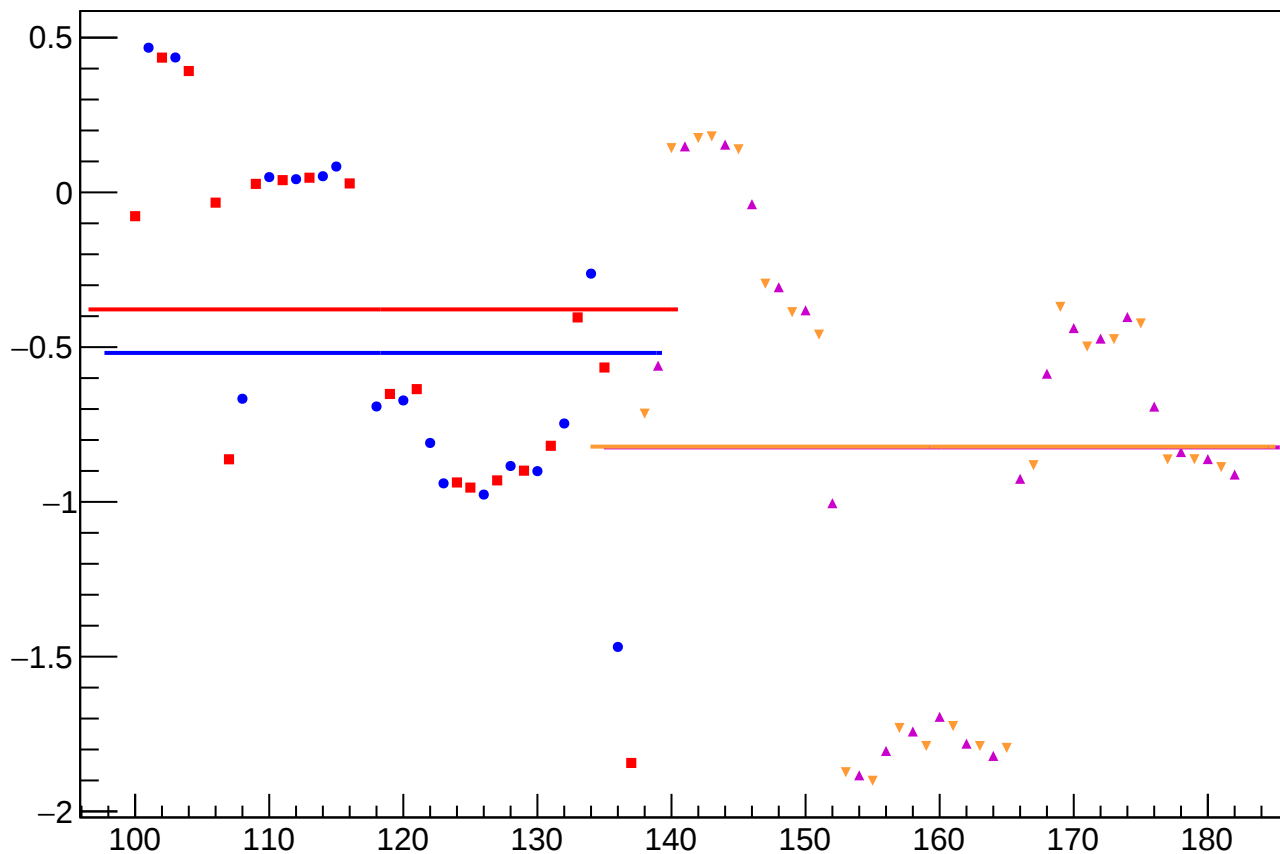
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 1653627.3/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:3299626.9/38

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:3991553.5/41

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 7298638.0/80

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 $\chi^2/\text{NDF}: 338707442.0/16$

Left Out: -0.821 ± 0.000 $\chi^2/\text{NDF}: 1083217744.6/22$

Right Out: -0.378 ± 0.000 $\chi^2/\text{NDF}: 267921889.8/18$

Left In: -0.824 ± 0.000 $\chi^2/\text{NDF}: 920766619.0/21$

Left: -0.823 ± 0.000 $\chi^2/\text{NDF}: 2003991724.3/44$

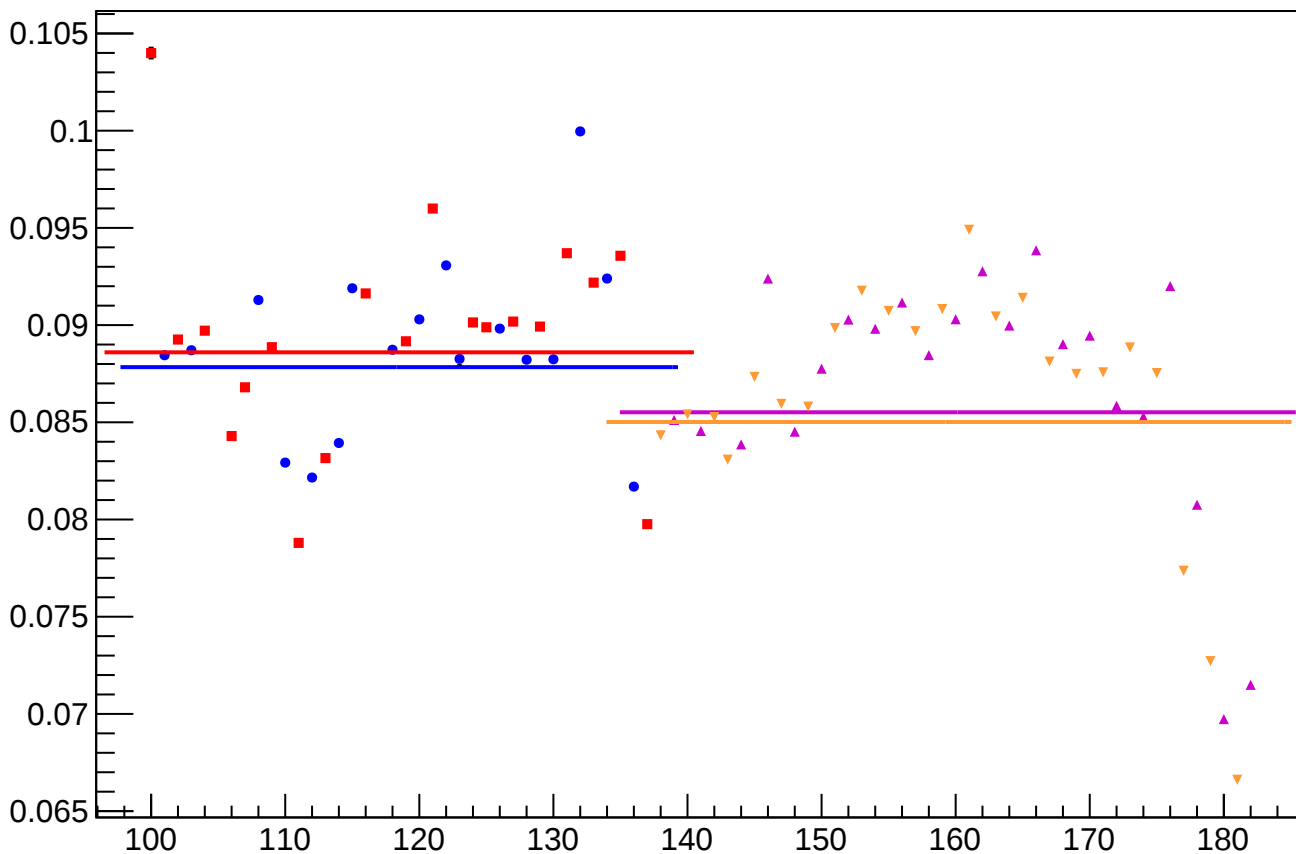
Right: -0.447 ± 0.000 $\chi^2/\text{NDF}: 615340967.5/35$

In: -0.741 ± 0.000 $\chi^2/\text{NDF}: 1318004601.1/38$

Out: -0.700 ± 0.000 $\chi^2/\text{NDF}: 1479556802.3/41$

All: -0.720 ± 0.000 $\chi^2/\text{NDF}: 2800270693.0/8$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 34872.1/16

Left Out: 0.085 $\pm$ 0.000 χ^2 /NDF:254080.7/22

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 38932.4/18

Left In: 0.086 $\pm$ 0.000 χ^2 /NDF:218329.2/21

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 472994.0/44

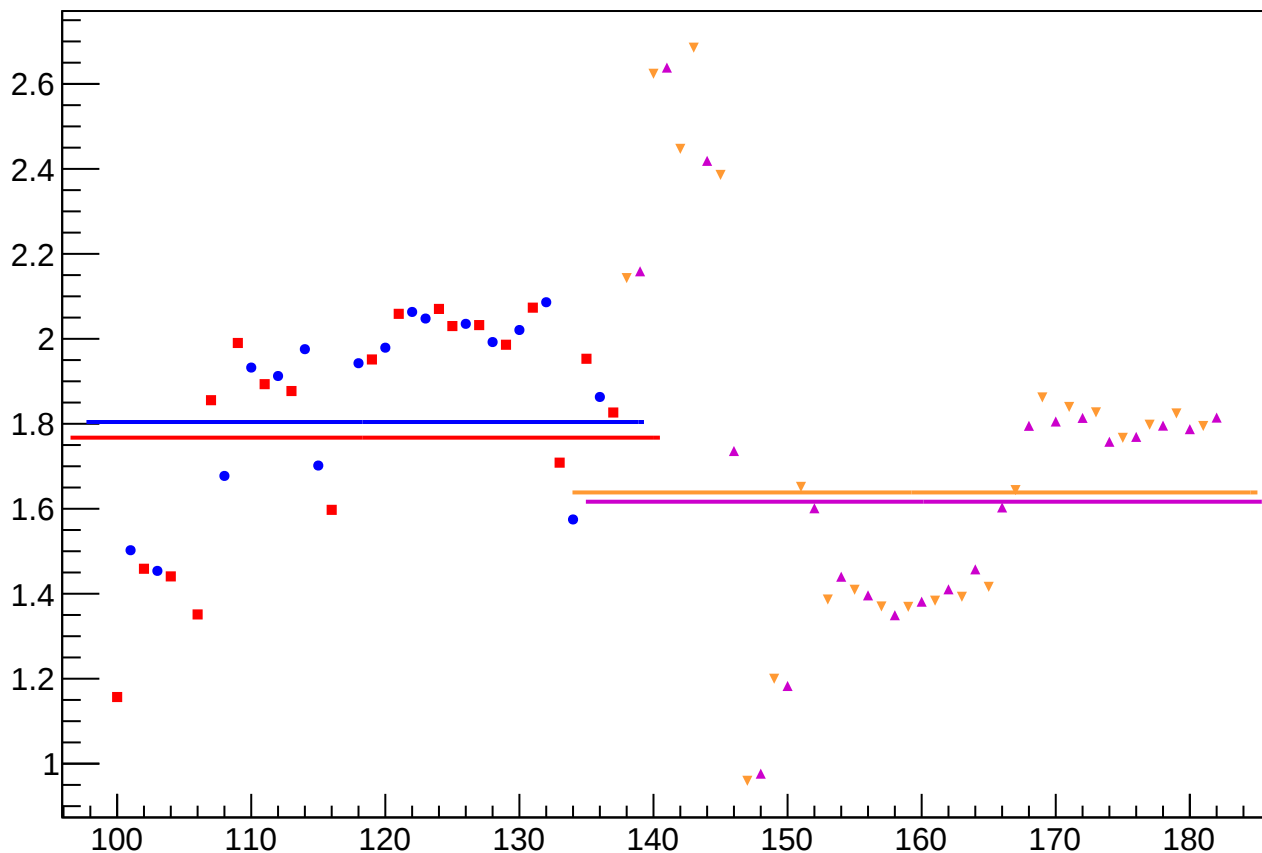
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 74317.5/35

In: 0.086 $\pm$ 0.000 χ^2 /NDF:259971.4/38

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:309796.7/41

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 569839.1/80

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804+/-0.000 χ^2/NDF : 1156038618.5/16

Left Out: 1.638+/-0.000 χ^2/NDF : 25980910852.2/22

Right Out: 1.767+/-0.000 χ^2/NDF : 1715728859.6/18

Left In: 1.617+/-0.000 χ^2/NDF : 20533864900.6/21

Left: 1.628+/-0.000 χ^2/NDF : 46561085263.0/44

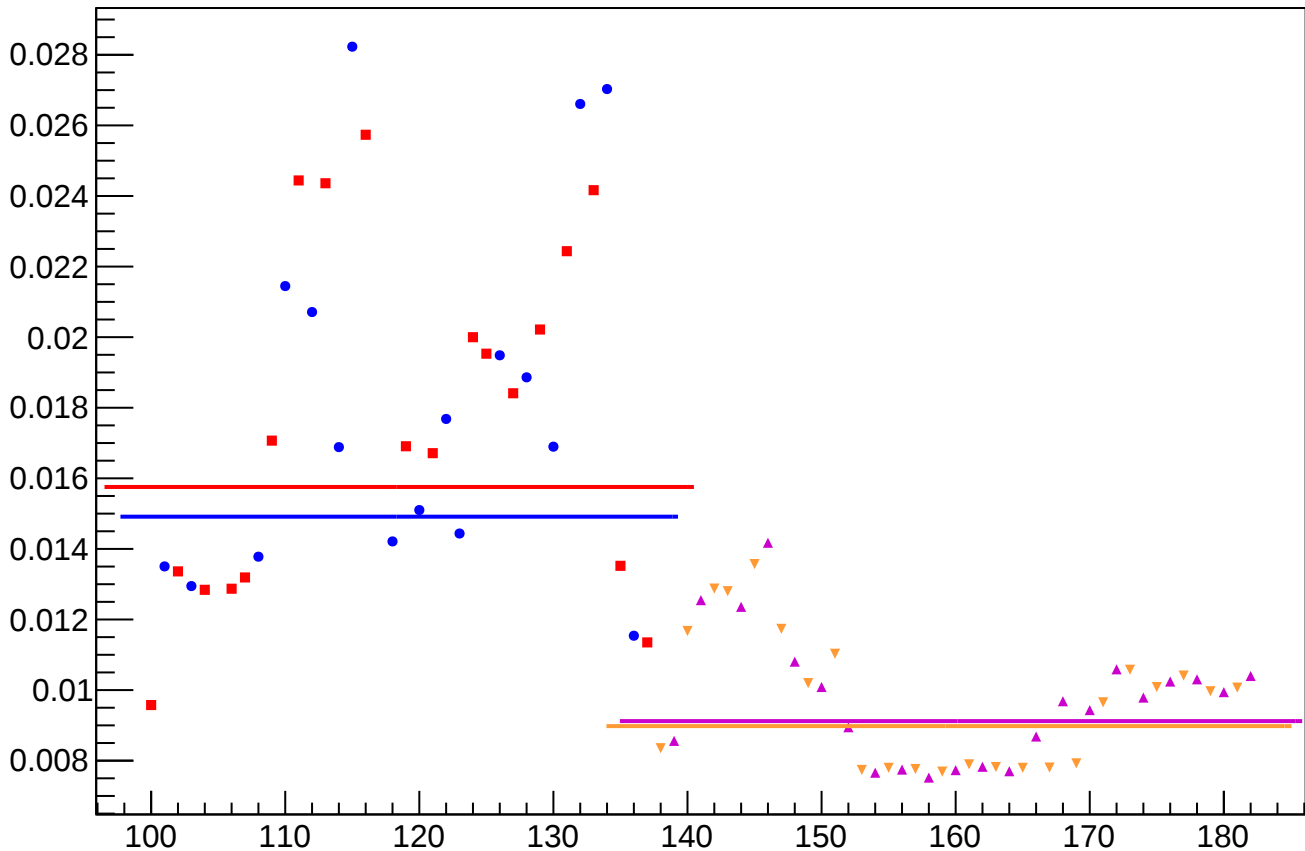
Right: 1.786+/-0.000 χ^2/NDF : 2888725719.4/35

In: 1.639+/-0.000 χ^2/NDF : 22488704779.1/38

Out: 1.652+/-0.000 χ^2/NDF : 28056483970.0/41

All: 1.646+/-0.000 χ^2/NDF : 50564598480.8/8

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 :993746.4/22

Right Out: 0.016+/-0.000 χ^2/NDF : 770357.5/18

Left In: 0.009+/-0.000 χ^2/NDF :871972.5/21

Left: 0.009+/-0.000 χ^2/NDF : 1869644.6/44

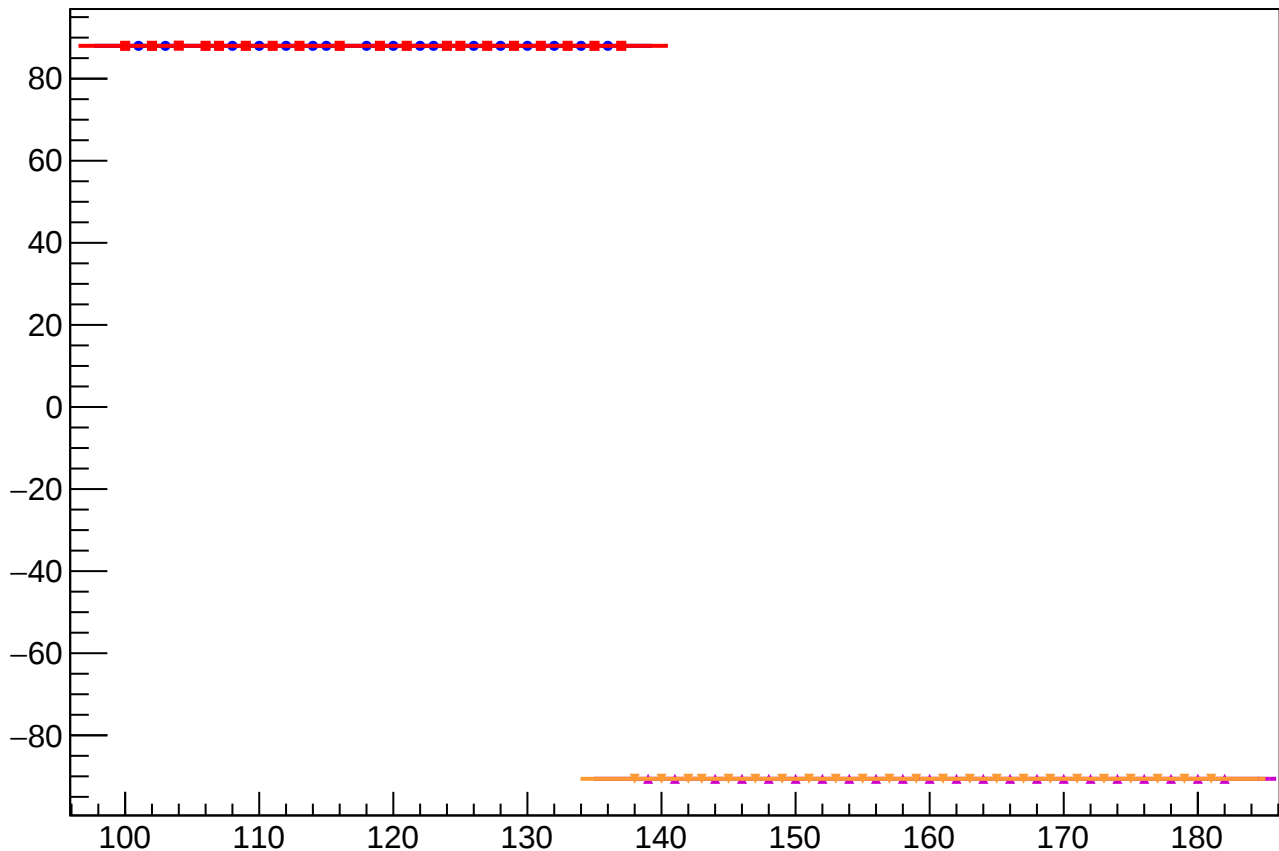
Right: 0.015+/-0.000 χ^2/NDF : 1426092.9/35

In: 0.010+/-0.000 χ^2/NDF :3032769.0/38

Out: 0.010+/-0.000 χ^2/NDF :3750842.6/41

All: 0.010+/-0.000 χ^2/NDF : 6785933.9/80

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 : 8501421.4/22

Right Out: 88.004+/-0.000 χ^2/NDF : 77529520773816998986447323136.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 6290894.4/21

Left: -90.599+/-0.000 χ^2/NDF : 11496720.0/44

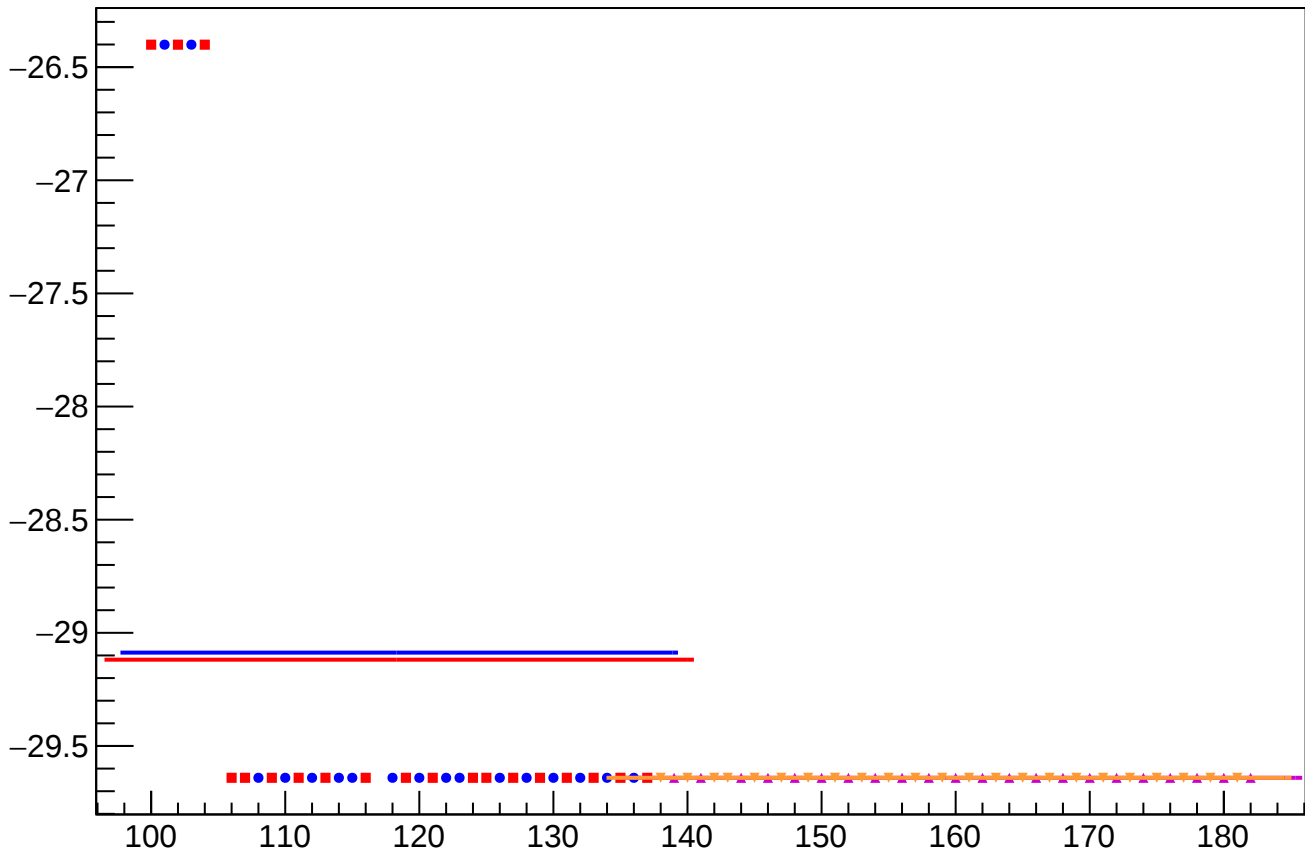
Right: 88.002+/-0.000 χ^2/NDF : 8042394504606349

In: -40.391+/-0.000 χ^2/NDF : 15845123460585817

Out: -39.550+/-0.000 χ^2/NDF : 1640258651872453

All: -39.965+/-0.000 χ^2/NDF : 322485900997

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 : 255426.9/22

Right Out: -29.119+/-0.000

χ^2/NDF : 1021533120000008474668992382894080.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 236191.3/21

In: -29.485+/-0.000

χ^2/NDF : 11792503303498634

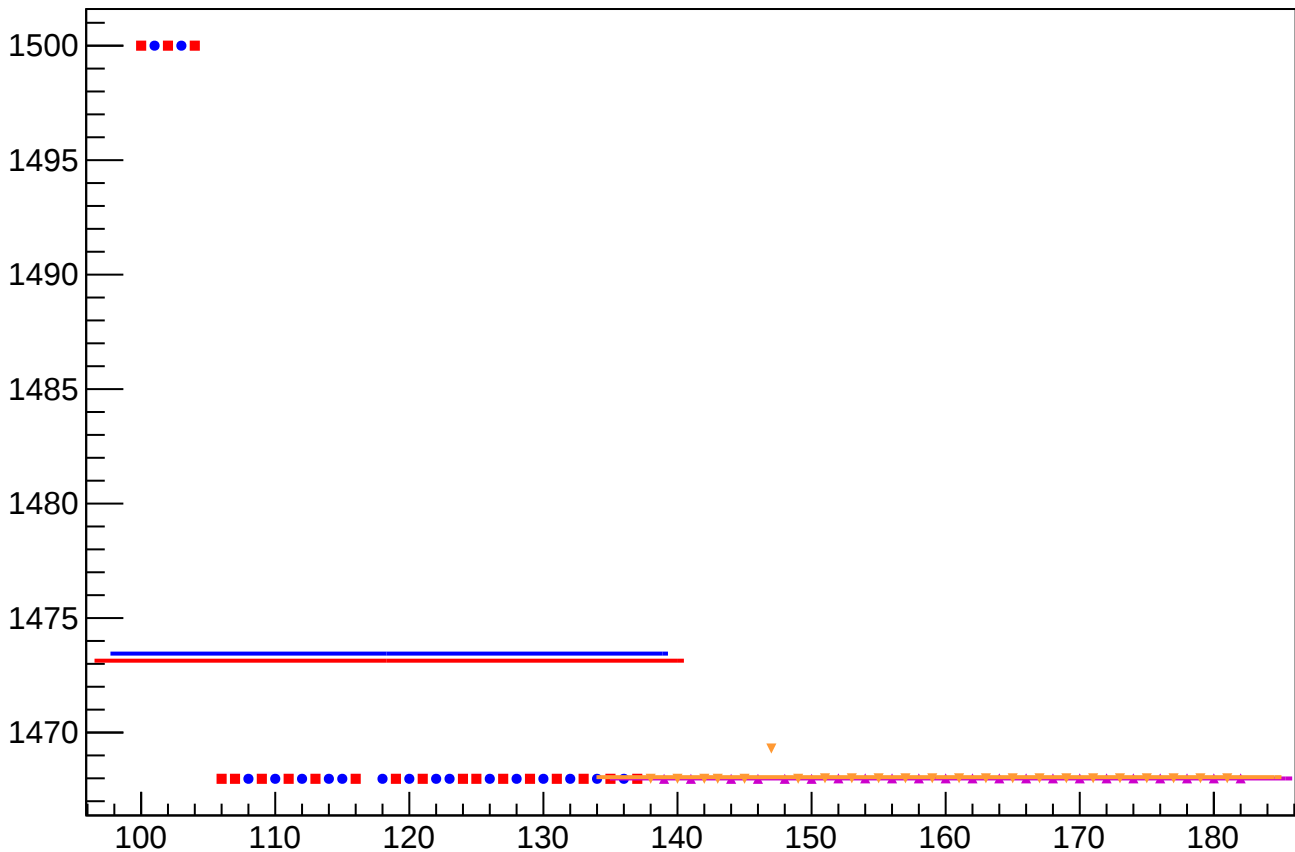
Out: -29.492+/-0.000

χ^2/NDF : 1161645496149240

All: -29.488+/-0.000

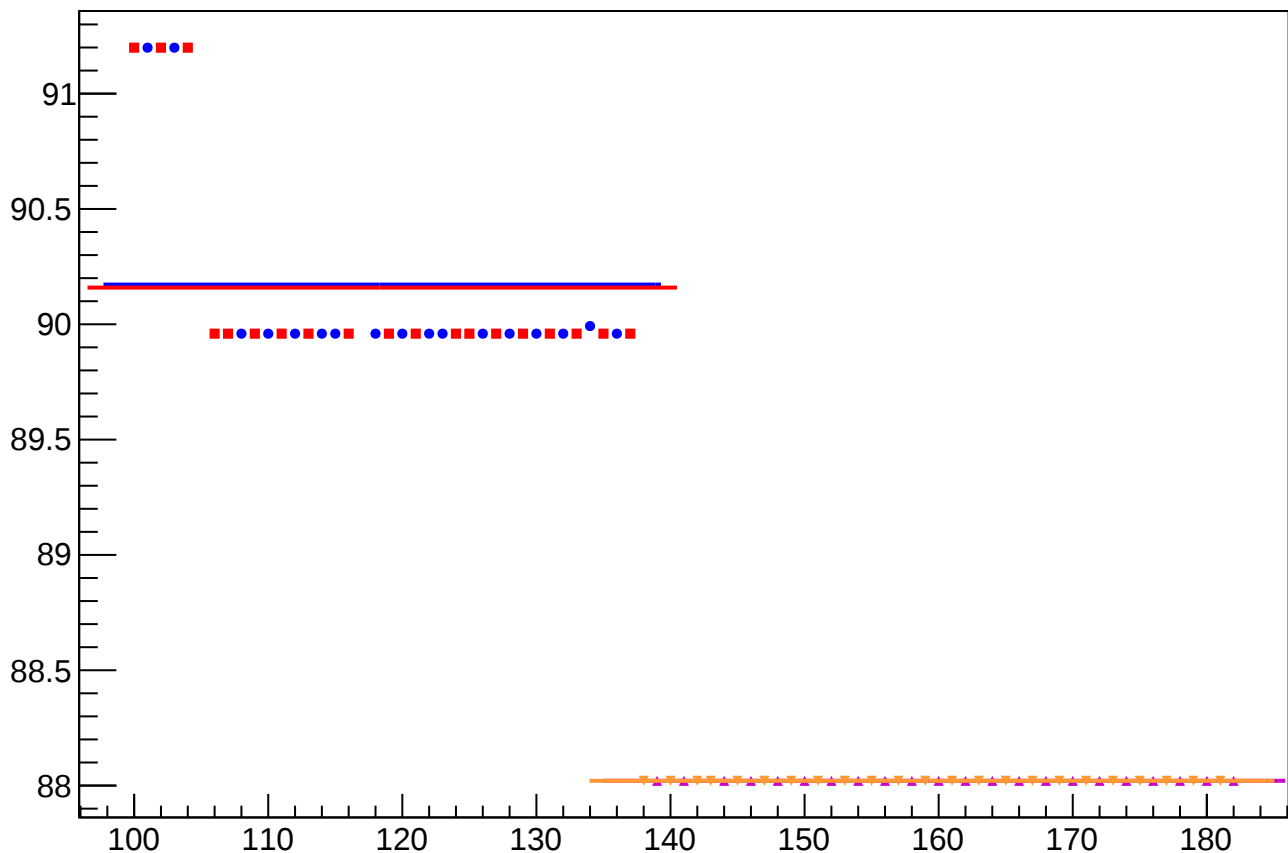
χ^2/NDF : 234094581699

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.447+/-0.000 χ^2/NDF : 100331979974804513534478923851628544.0/16
 Left Out: 1468.051+/-0.000 χ^2/NDF : 127656949249289324093749980037120.0/22
 Right Out: 1473.138+/-0.000 χ^2/NDF : 99779938590622337721401930749575168.0/18
 Left In: 1467.994+/-0.000 χ^2/NDF : 143580305568422612962201567232.0/21
 All: 1469.516+/-0.000 χ^2/NDF : 22832432715

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 : 5482494.9/22

Right Out: 90.159+/-0.000

χ^2/NDF : 149625564444474590335066871693312.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 6096216.1/21

Left: 88.021+/-0.000 χ^2/NDF : 10789698.7/44

Right: 90.165+/-0.000

χ^2/NDF : 2998666474784590

In: 88.625+/-0.000

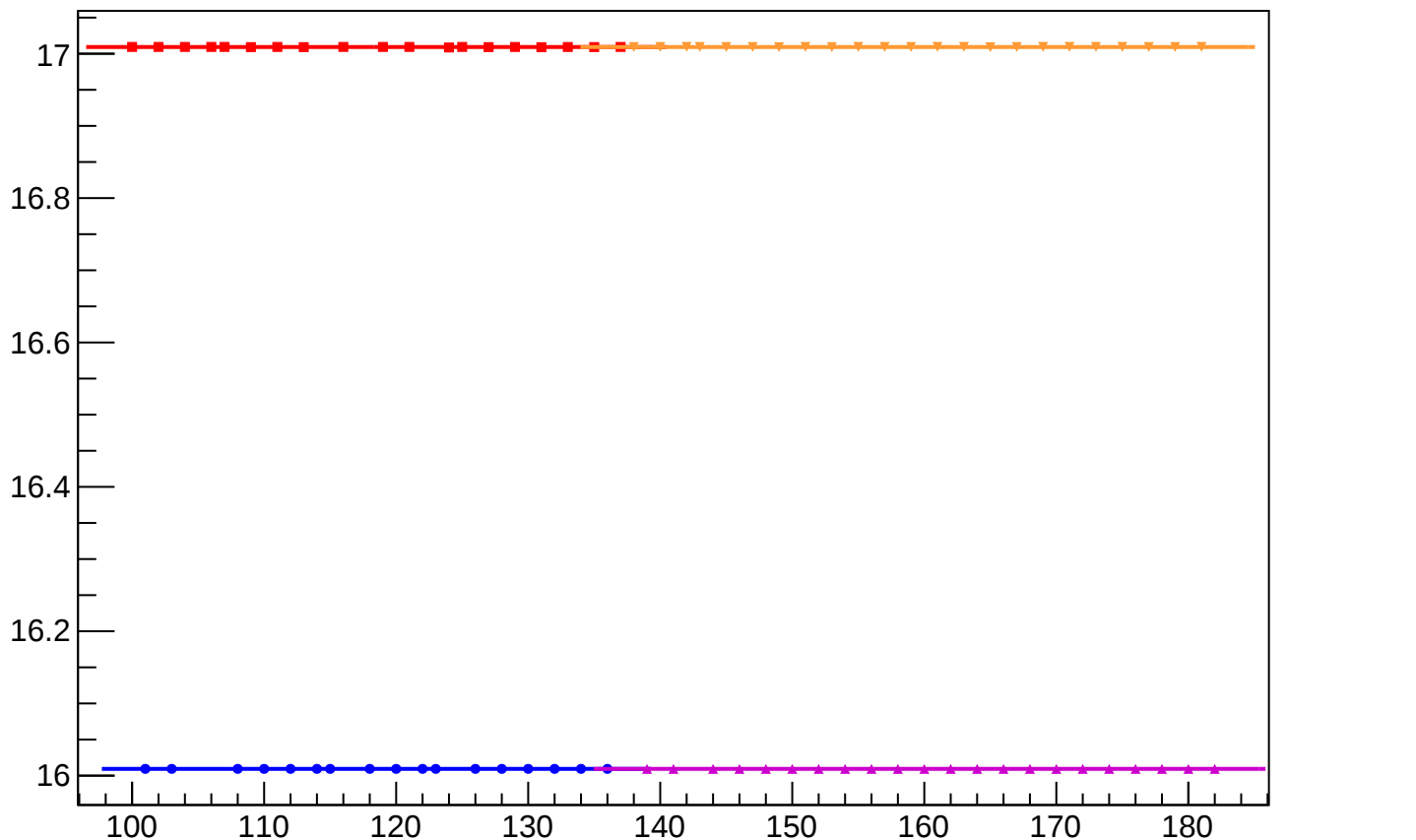
χ^2/NDF : 244926414379537200

Out: 88.632+/-0.000

χ^2/NDF : 25008918611025685

All: 88.629+/-0.000 χ^2/NDF : 4950207159067

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 38900.3/16

Left: 16.513+/-0.000 χ^2/NDF : 8255135954955615

Right: 16.507+/-0.000 χ^2/NDF : 3279335089313653

In: 16.009+/-0.000 χ^2/NDF : 129526065704684167

Left Out: 17.009+/-0.000 χ^2/NDF : 24894260218451556263002112.0/22

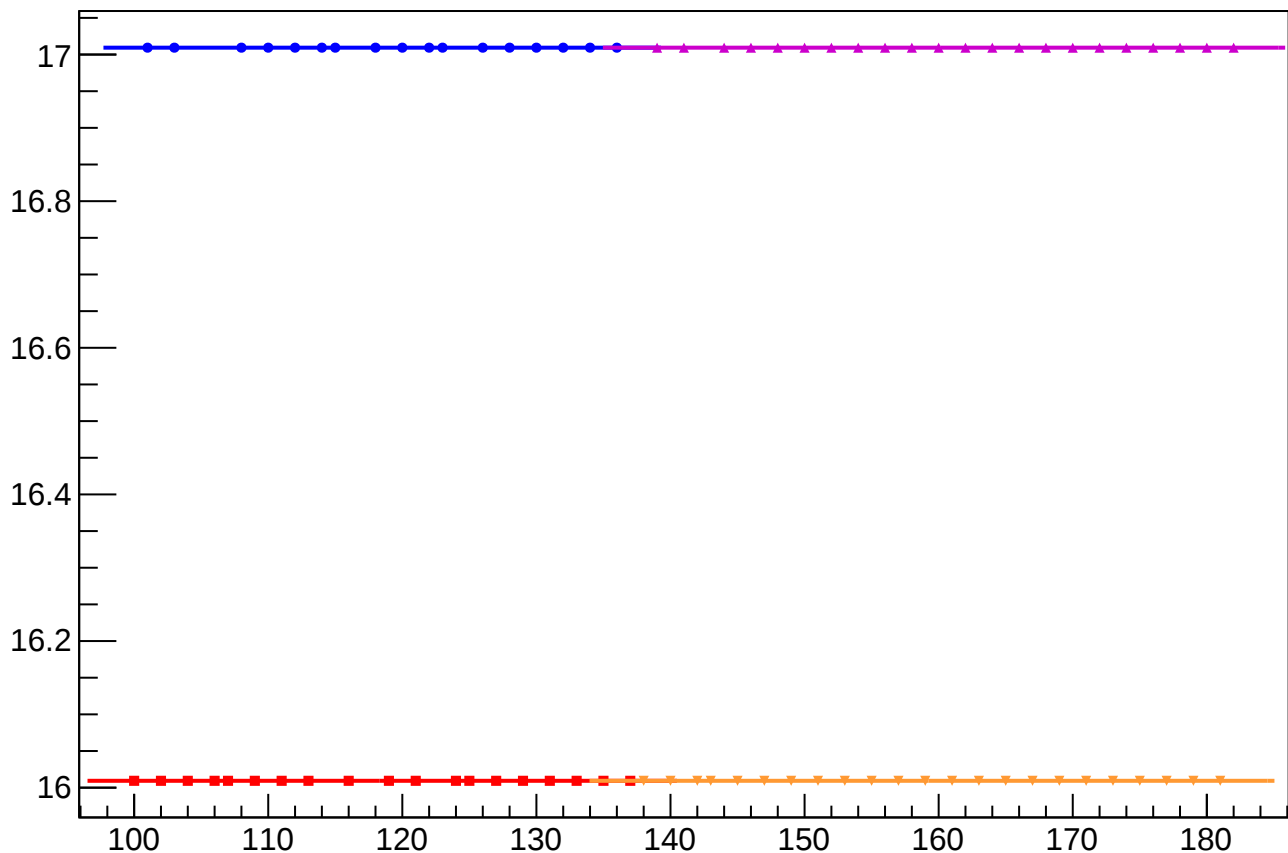
Right Out: 17.009+/-0.000 χ^2/NDF : 12507759350541157226512384.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 127817402424212171259904.0/21

Out: 17.009+/-0.000 χ^2/NDF : 37707198640150527

All: 16.511+/-0.000 χ^2/NDF : 1153481550453

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 119200.0/16

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 60710.7/22

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39077.0/18

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 11489217695321654181888.0/21

Left: 16.502 $\pm$ 0.000 χ^2 /NDF: 87404601277142897

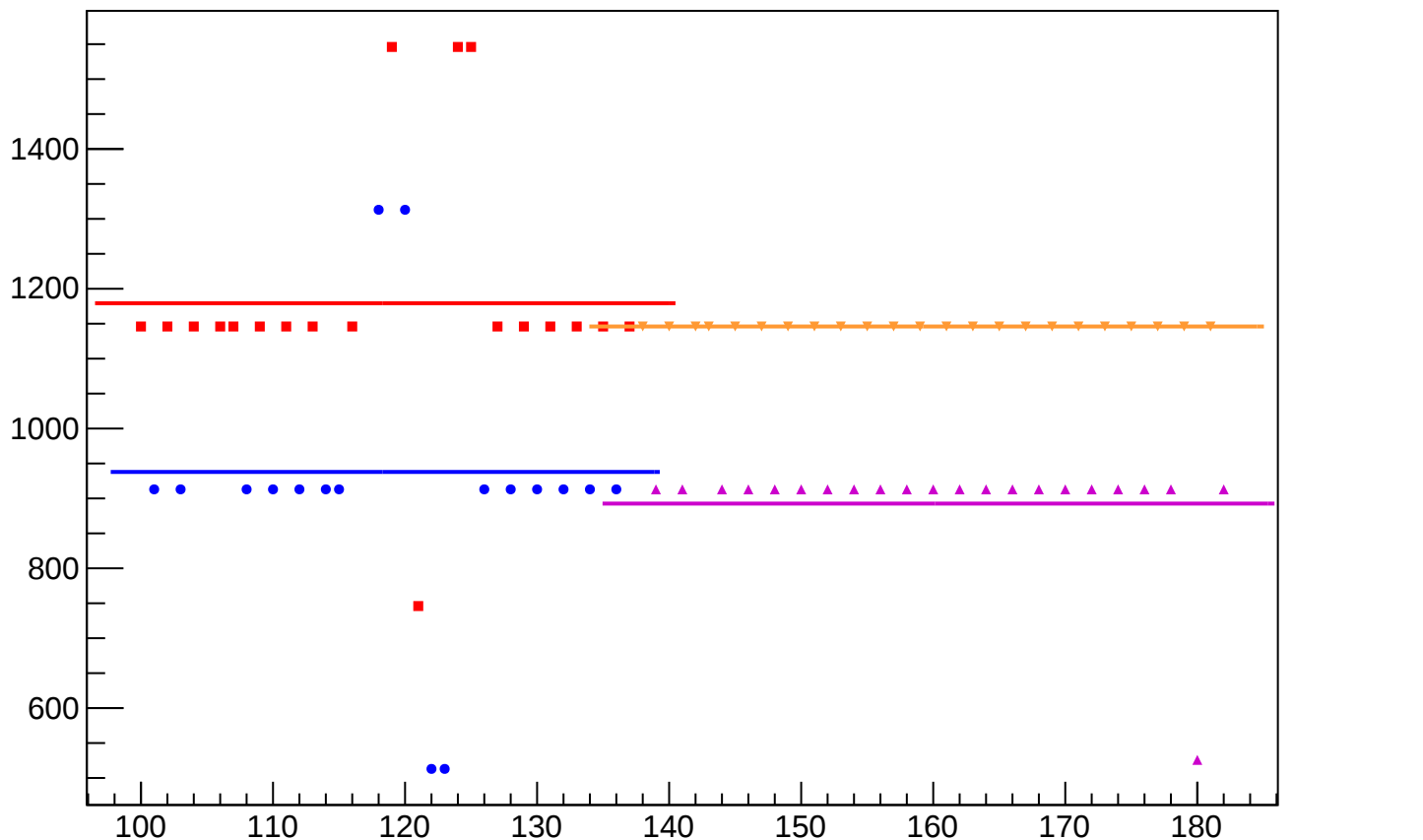
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3424686588921133

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116461791178078992

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 287448.3/41

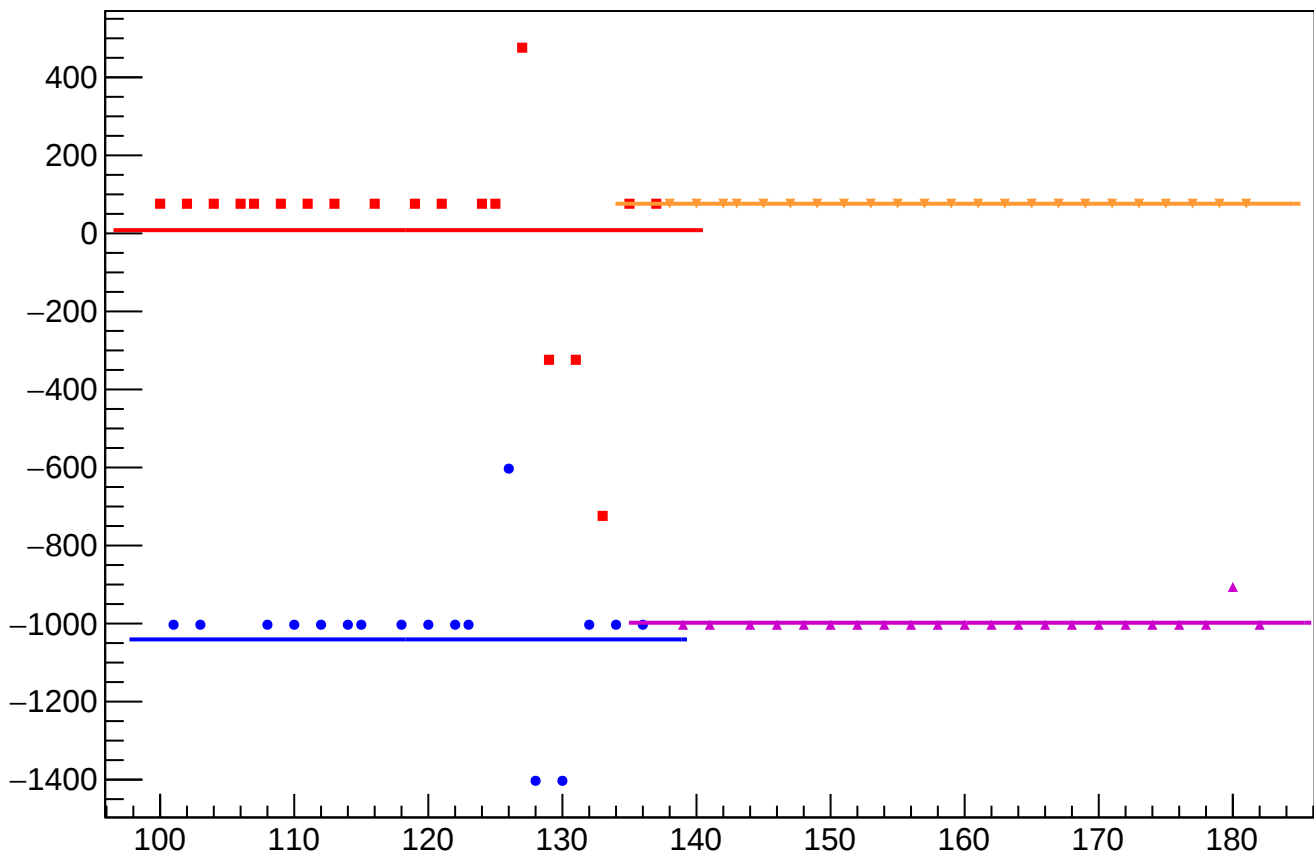
All: 16.498 $\pm$ 0.000 χ^2 /NDF: 1216658954729

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.887+/-0.000 χ^2/NDF : 20853195799113284359206128263972782080.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 5895624070877645141427879936.0/22
 Right Out: 1179.343+/-0.000 χ^2/NDF : 21280712999839458982137051519993774080.0/18
 Left In: 892.621+/-0.000 χ^2/NDF : 13202011007518216554573279869670522880.0/21
 All: 1031.976+/-0.000 χ^2/NDF : 13479832926

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1040.616+/-0.000 χ^2/NDF : 22221373085920074948025403120531013632.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 10937220090244609075471974400.0/22
 Right Out: 8.231+/-0.000 χ^2/NDF : 43732051061335101274341918679788158976.0/18
 Left In: -997.896+/-0.000 χ^2/NDF : 825117649461960866287962802150703104.0/21
 All: -470.098+/-0.000 χ^2/NDF : 14851881415