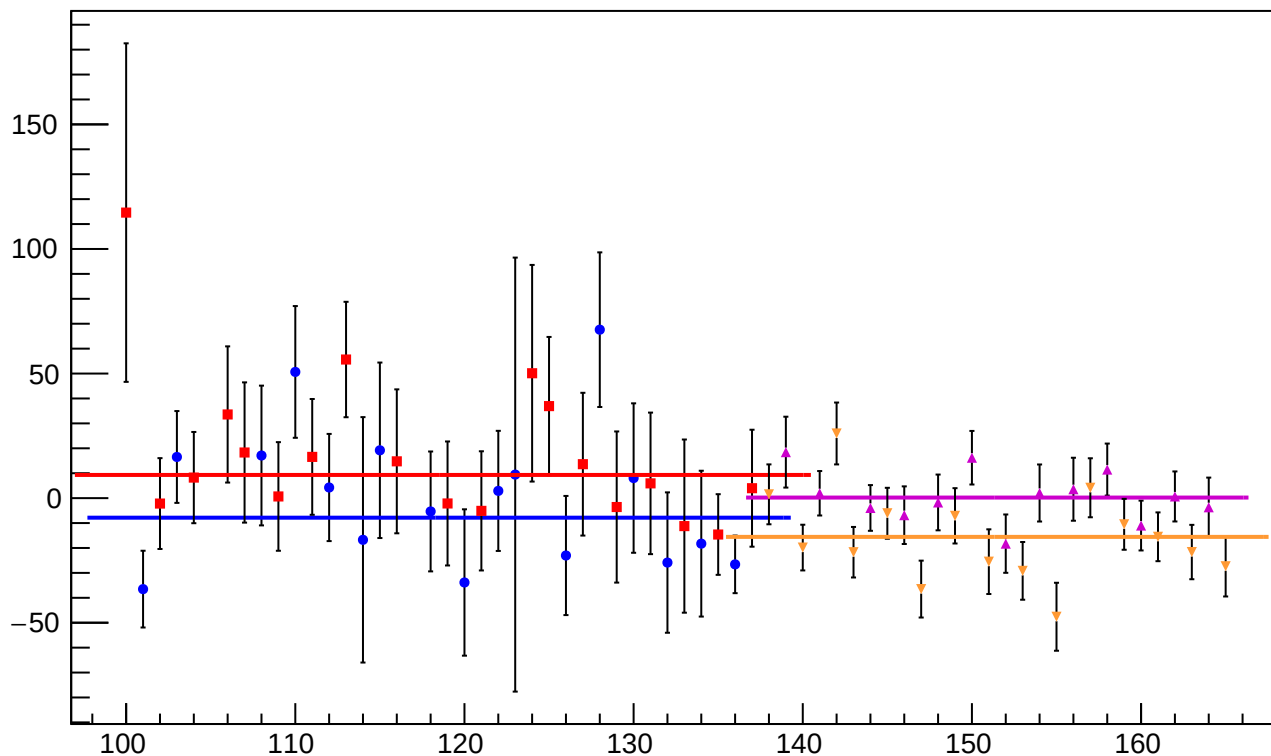


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

$\chi^2/\text{NDF}: 22.6/16$

Left Out: -15.548 ± 2.869

$\chi^2/\text{NDF}: 30.4/14$

Right Out: 9.309 ± 5.677

$\chi^2/\text{NDF}: 13.2/18$

Left In: 0.231 ± 3.003

$\chi^2/\text{NDF}: 9.6/12$

Left: -8.020 ± 2.075

$\chi^2/\text{NDF}: 54.4/27$

Right: 0.629 ± 3.990

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

In: -1.568 ± 2.648

$\chi^2/\text{NDF}: 33.9/29$

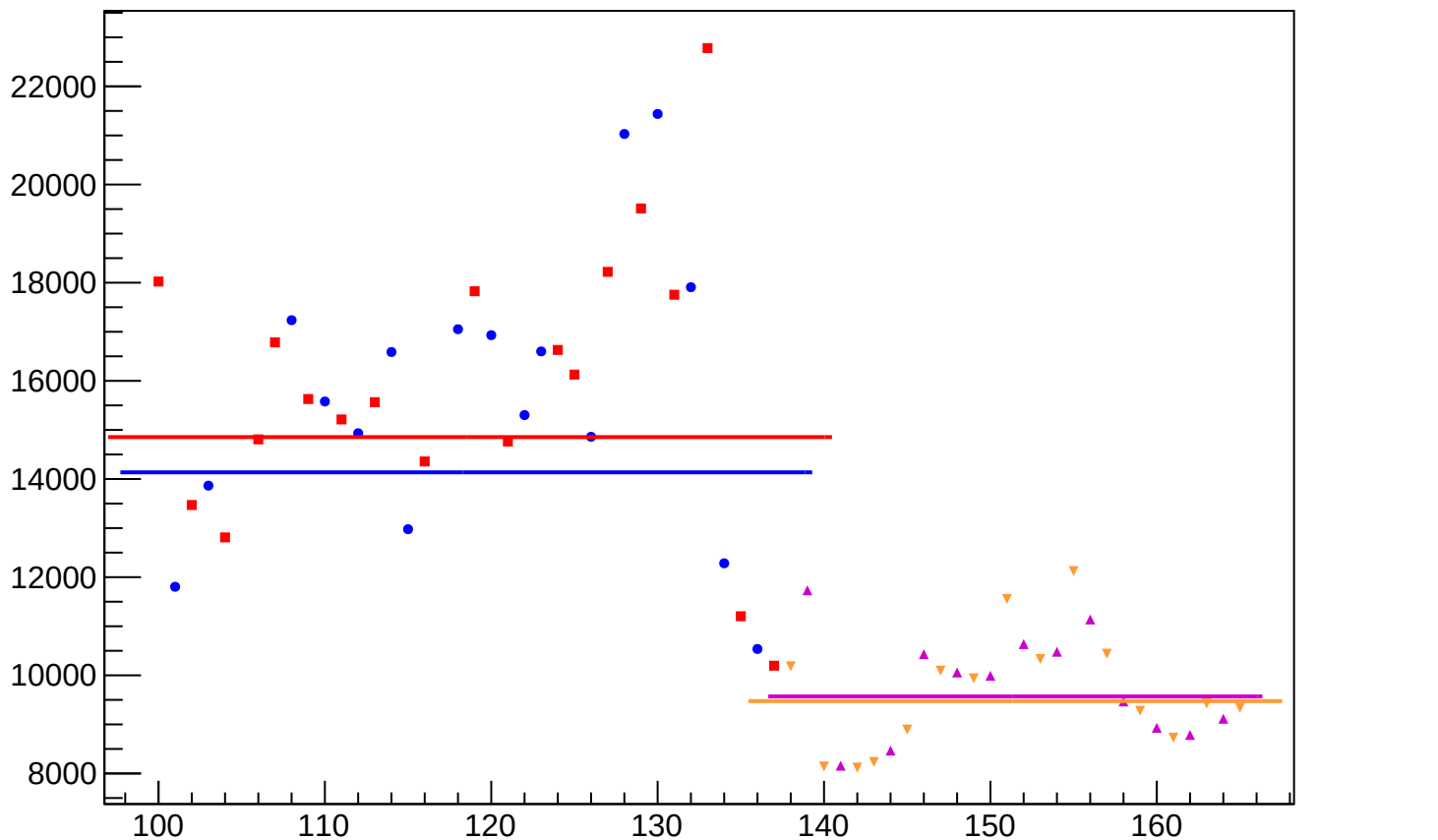
Out: -10.492 ± 2.560

$\chi^2/\text{NDF}: 58.9/33$

All: -6.180 ± 1.841

$\chi^2/\text{NDF}: 98.6/63$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14135.800+/-3.966 χ^2/NDF : 597179.4/16

Left Out: 9475.216+/-2.029 χ^2/NDF : 282444.0/14

Right Out: 14854.033+/-4.014 χ^2/NDF : 472017.6/18

Left In: 9570.583+/-2.124 χ^2/NDF : 226673.8/12

Left: 9520.713+/-1.467 χ^2/NDF : 510172.2/27

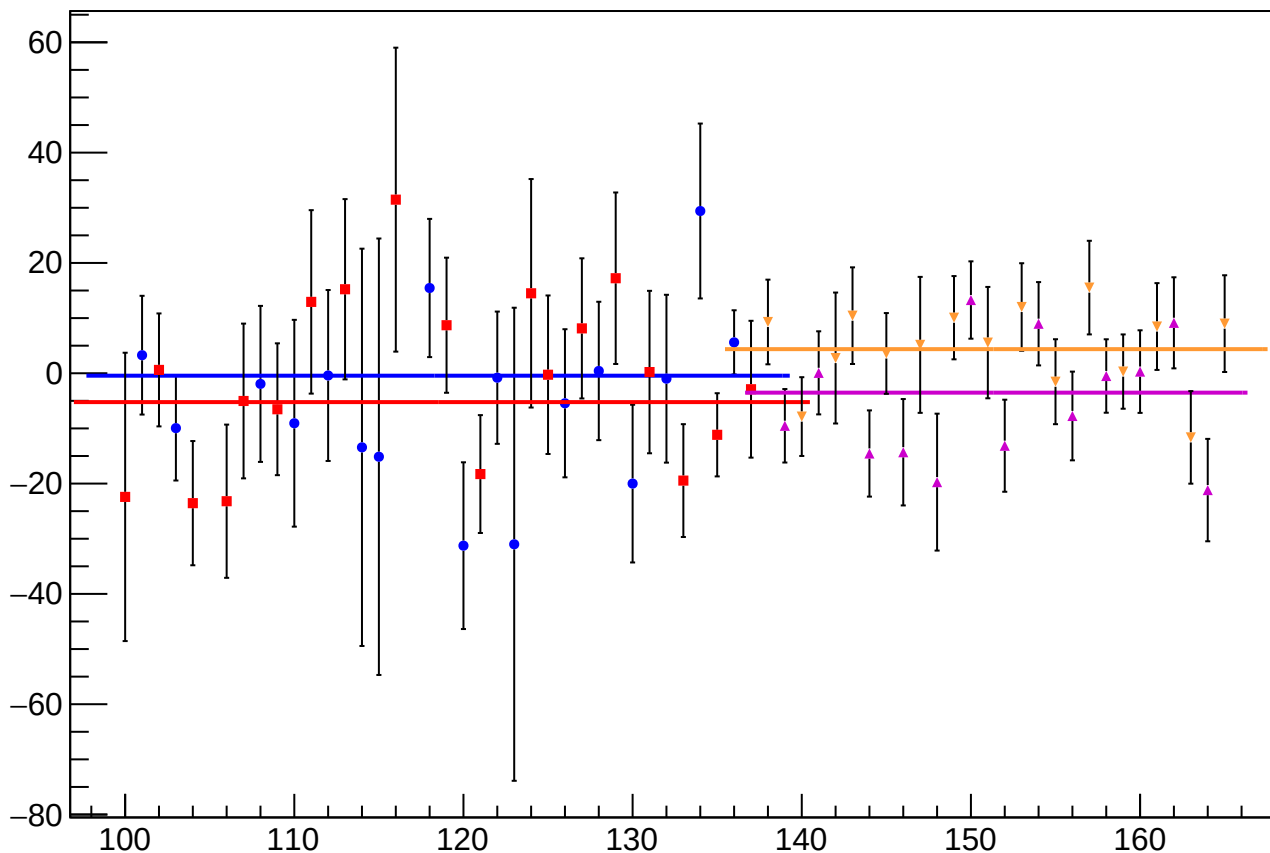
Right: 14490.533+/-2.821 χ^2/NDF : 1085397.6/35

In: 10588.082+/-1.872 χ^2/NDF : 1853706.1/29

Out: 10569.315+/-1.811 χ^2/NDF : 2184570.4/33

All: 10578.384+/-1.301 χ^2/NDF : 4038328.4/6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.441 ± 3.071 χ^2/NDF : 14.5/16

Left Out: 4.373 ± 2.125 χ^2/NDF : 12.2/14

Right Out: -5.229 ± 2.936 χ^2/NDF : 19.4/18

Left In: -3.516 ± 2.192 χ^2/NDF : 22.5/12

Left: 0.550 ± 1.526 χ^2/NDF : 41.4/27

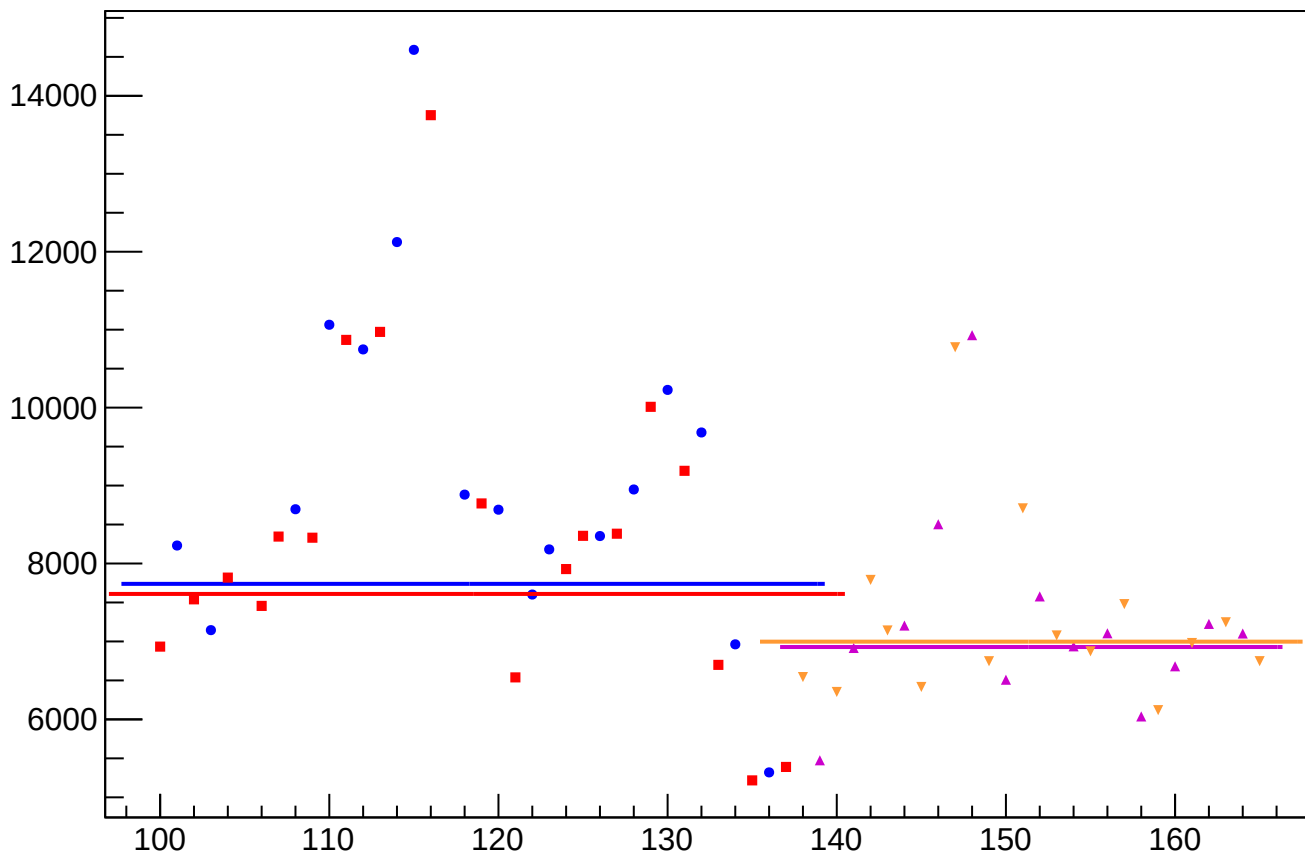
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -2.478 ± 1.784 χ^2/NDF : 37.7/29

Out: 1.071 ± 1.722 χ^2/NDF : 38.6/33

All: -0.641 ± 1.239 χ^2/NDF : 78.4/63

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.886 $\pm$ 2.172 χ^2 /NDF: 740836.7/16

Left Out: 6997.408 $\pm$ 1.503 χ^2 /NDF:337460.9/14

Right Out: 7609.531 $\pm$ 2.076 χ^2 /NDF: 679180.7/18

Left In: 6928.476 $\pm$ 1.550 χ^2 /NDF:420385.4/12

Left: 6964.002 $\pm$ 1.079 χ^2 /NDF: 758865.7/27

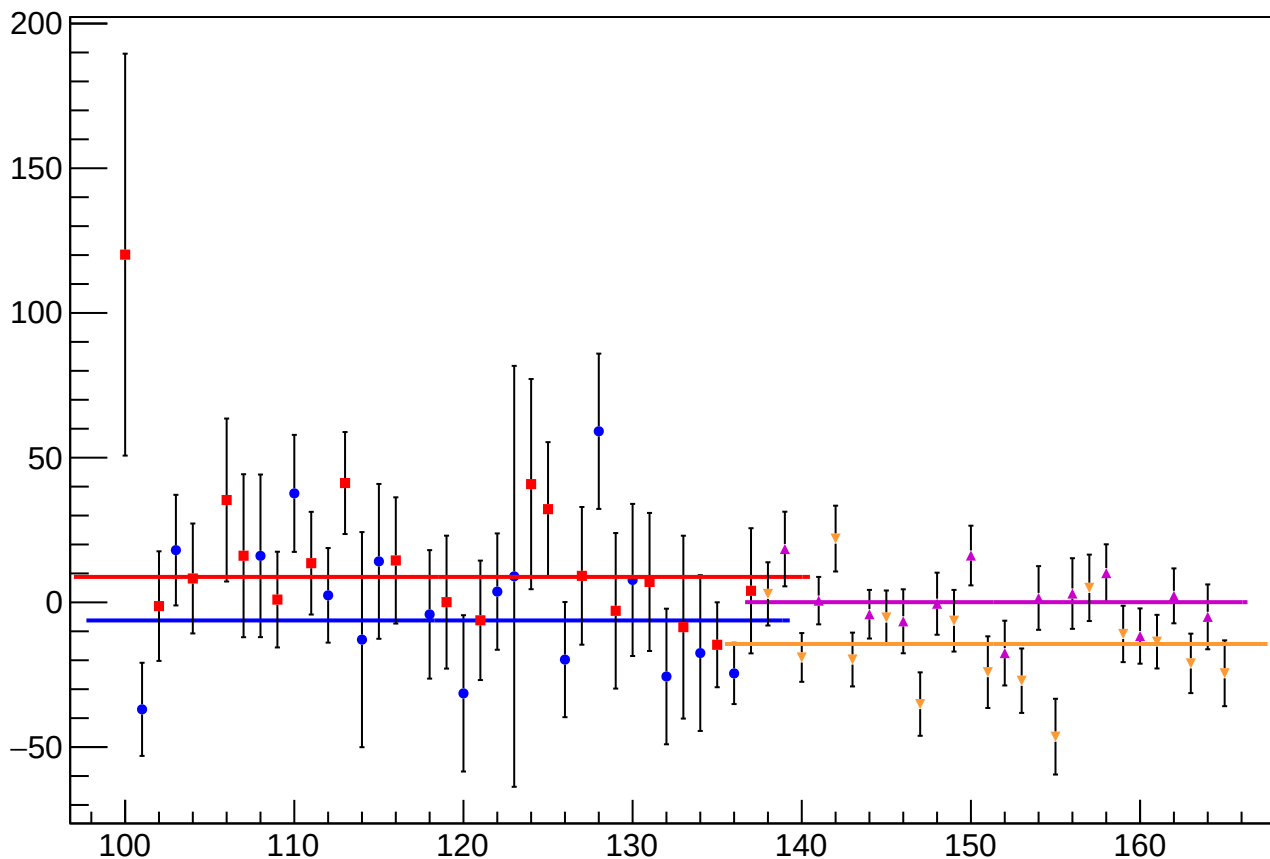
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

In: 7201.980 $\pm$ 1.262 χ^2 /NDF:1253492.3/29

Out: 7207.912 $\pm$ 1.217 χ^2 /NDF:1073687.4/33

All: 7205.051 $\pm$ 0.876 χ^2 /NDF: 2327191.2/63

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.244 ± 5.017 $\chi^2/\text{NDF}: 23.2/16$

Left Out: -14.372 ± 2.694 $\chi^2/\text{NDF}: 30.6/14$

Right Out: 8.802 ± 4.999 $\chi^2/\text{NDF}: 13.1/18$

Left In: 0.075 ± 2.835 $\chi^2/\text{NDF}: 10.4/12$

Left: -7.518 ± 1.953 $\chi^2/\text{NDF}: 54.7/27$

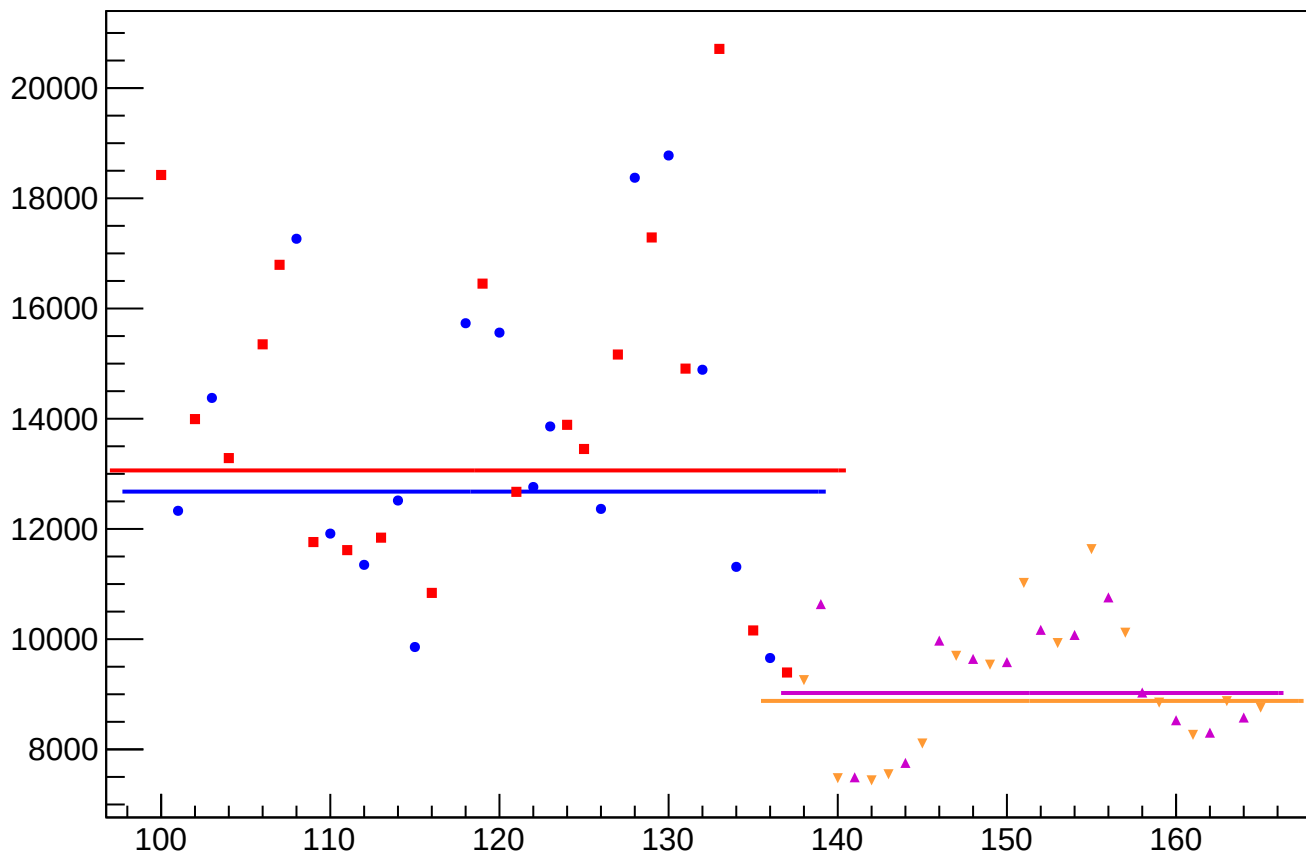
Right: 1.306 ± 3.541 $\chi^2/\text{NDF}: 40.9/35$

In: -1.454 ± 2.468 $\chi^2/\text{NDF}: 34.8/29$

Out: -9.158 ± 2.371 $\chi^2/\text{NDF}: 60.4/33$

All: -5.460 ± 1.710 $\chi^2/\text{NDF}: 100.3/63$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12677.516 $\pm$ 3.548 χ^2/NDF : 553605.5/16

Left Out: 8879.359 $\pm$ 1.905 χ^2/NDF :361999.1/14

Right Out: 13061.839 $\pm$ 3.535 χ^2/NDF : 497429.6/18

Left In: 9023.342 $\pm$ 2.005 χ^2/NDF :273655.1/12

Left: 8947.676 $\pm$ 1.381 χ^2/NDF : 638365.5/27

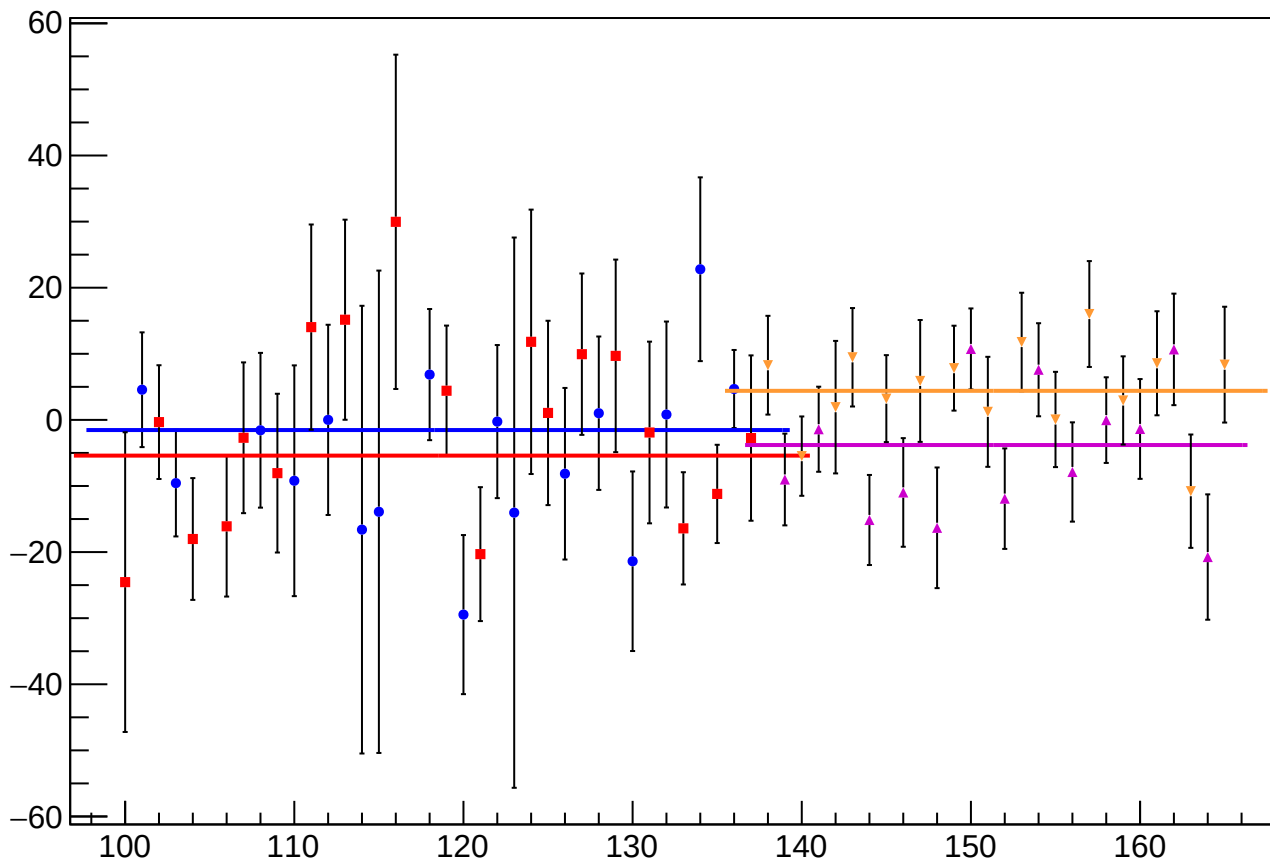
Right: 12870.370 $\pm$ 2.504 χ^2/NDF : 1056923.6/35

In: 9907.598 $\pm$ 1.745 χ^2/NDF :1631411.2/29

Out: 9820.390 $\pm$ 1.677 χ^2/NDF :1944320.0/33

All: 9862.251 $\pm$ 1.209 χ^2/NDF : 3577029.6/63

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.538 ± 2.790 χ^2/NDF : 14.8/16

Left Out: 4.397 ± 1.942 χ^2/NDF : 11.1/14

Right Out: -5.405 ± 2.640 χ^2/NDF : 18.6/18

Left In: -3.803 ± 2.035 χ^2/NDF : 22.4/12

Left: 0.488 ± 1.405 χ^2/NDF : 42.0/27

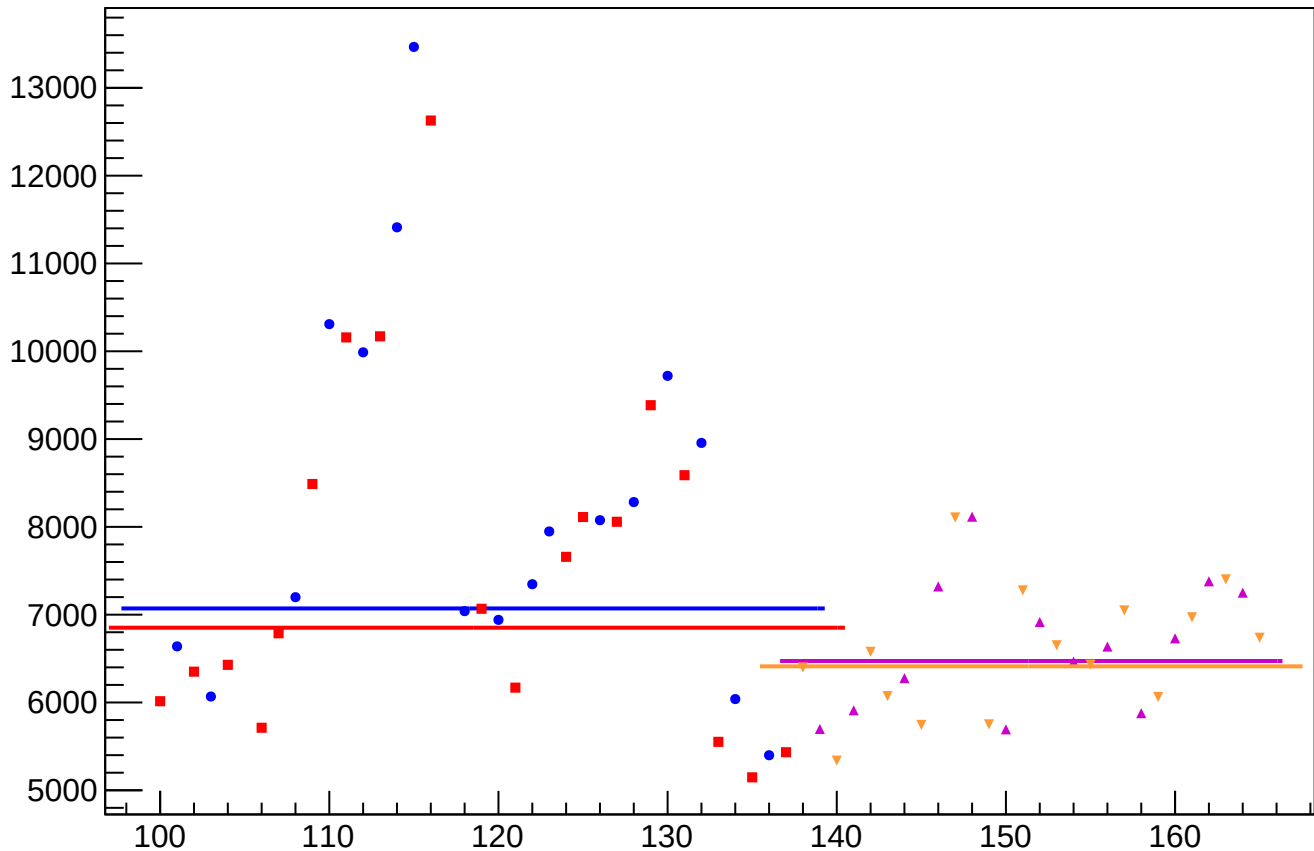
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -3.017 ± 1.644 χ^2/NDF : 37.6/29

Out: 0.955 ± 1.564 χ^2/NDF : 38.6/33

All: -0.932 ± 1.133 χ^2/NDF : 79.3/63

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7071.043 $\pm$ 1.973 χ^2 /NDF: 600748.1/16

Left Out: 6411.589 $\pm$ 1.373 χ^2 /NDF: 259411.1/14

Right Out: 6851.604 $\pm$ 1.866 χ^2 /NDF: 684398.7/18

Left In: 6472.487 $\pm$ 1.439 χ^2 /NDF: 223739.7/12

Left: 6440.618 $\pm$ 0.993 χ^2 /NDF: 484088.5/27

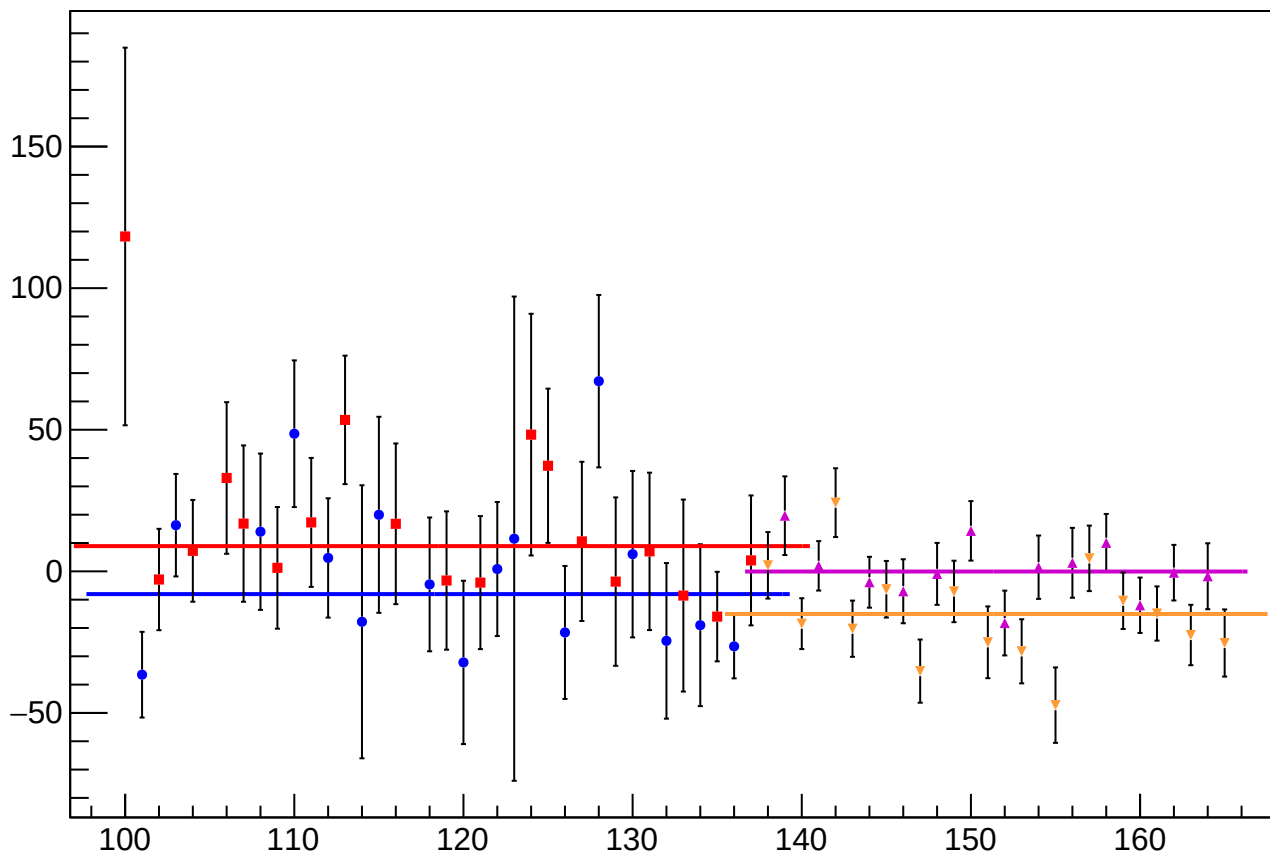
Right: 6955.236 $\pm$ 1.356 χ^2 /NDF: 1291674.4/35

In: 6680.243 $\pm$ 1.162 χ^2 /NDF: 884572.6/29

Out: 6566.087 $\pm$ 1.106 χ^2 /NDF: 979871.3/33

All: 6620.326 $\pm$ 0.801 χ^2 /NDF: 1869505.7/63

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.036 $\pm$ 5.497 χ^2/NDF : 22.6/16

Left Out: -15.063 $\pm$ 2.805 χ^2/NDF : 29.8/14

Right Out: 8.907 $\pm$ 5.566 χ^2/NDF : 13.7/18

Left In: -0.066 $\pm$ 2.936 χ^2/NDF : 9.6/12

Left: -7.908 $\pm$ 2.028 χ^2/NDF : 53.0/27

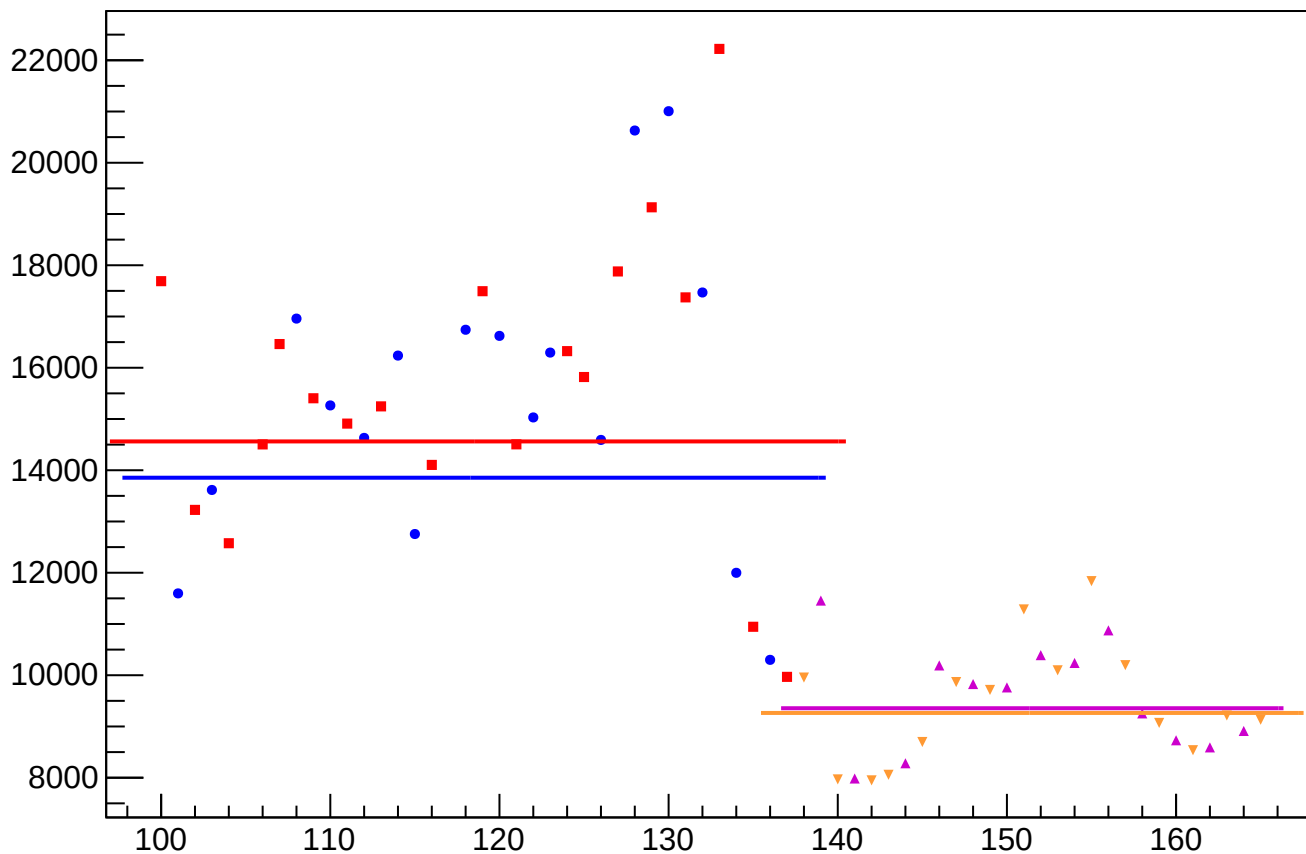
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

In: -1.835 $\pm$ 2.590 χ^2/NDF : 33.8/29

Out: -10.210 $\pm$ 2.505 χ^2/NDF : 58.2/33

All: -6.162 $\pm$ 1.800 χ^2/NDF : 97.5/63

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.187+/-3.887 χ^2/NDF : 600963.4/16

Left Out: 9264.088+/-1.983 χ^2/NDF : 279211.0/14

Right Out: 14562.308+/-3.936 χ^2/NDF : 474279.5/18

Left In: 9356.018+/-2.076 χ^2/NDF : 223959.6/12

Left: 9307.951+/-1.434 χ^2/NDF : 504195.9/27

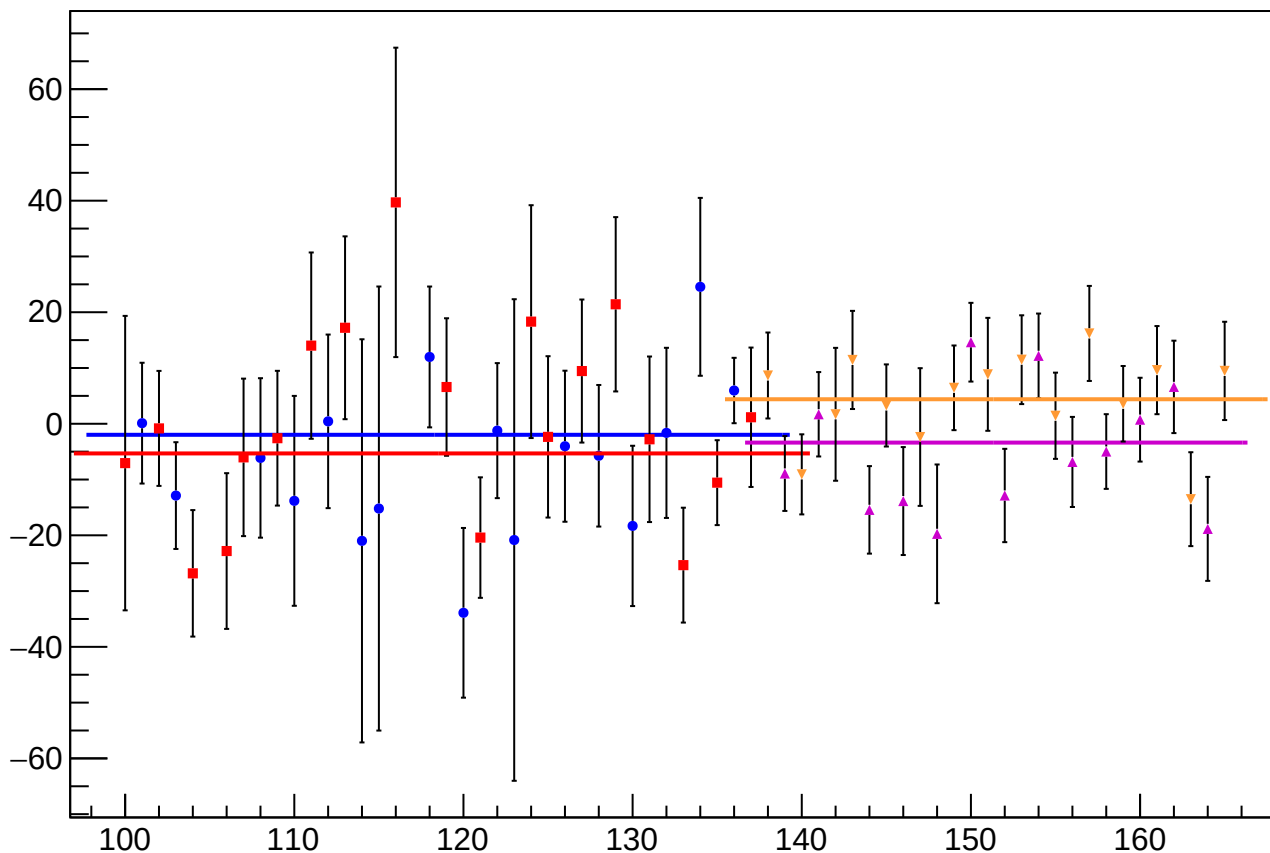
Right: 14203.845+/-2.766 χ^2/NDF : 1091628.8/35

In: 10354.233+/-1.831 χ^2/NDF : 1866797.2/29

Out: 10336.817+/-1.771 χ^2/NDF : 2198679.4/33

All: 10345.234+/-1.273 χ^2/NDF : 4065523.4/66

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.978 $\pm$ 3.094 χ^2/NDF : 14.0/16

Left Out: 4.396 $\pm$ 2.135 χ^2/NDF :13.3/14

Right Out: -5.318 $\pm$ 2.959 χ^2/NDF : 24.3/18

Left In: -3.377 $\pm$ 2.202 χ^2/NDF :23.1/12

Left: 0.630 $\pm$ 1.533 χ^2/NDF : 42.9/27

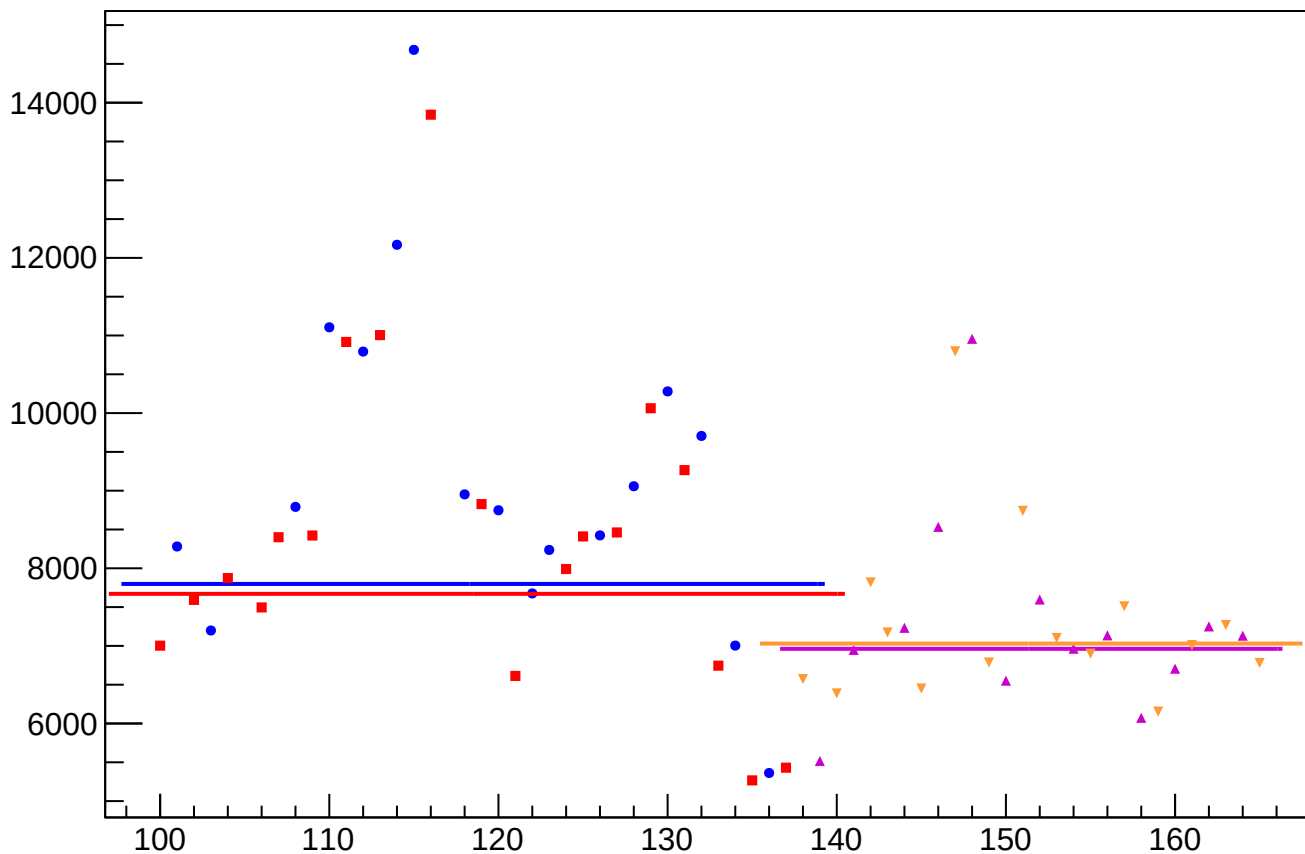
Right: -3.723 $\pm$ 2.138 χ^2/NDF : 39.0/35

In: -2.906 $\pm$ 1.794 χ^2/NDF :37.3/29

Out: 1.070 $\pm$ 1.731 χ^2/NDF :44.7/33

All: -0.847 $\pm$ 1.246 χ^2/NDF : 84.5/63

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7798.267+/-2.188 χ^2/NDF : 736283.6/16

Left Out: 7030.009+/-1.510 χ^2/NDF : 333696.2/14

Right Out: 7670.584+/-2.092 χ^2/NDF : 672691.0/18

Left In: 6962.330+/-1.557 χ^2/NDF : 414141.4/12

Left: 6997.216+/-1.084 χ^2/NDF : 748811.4/27

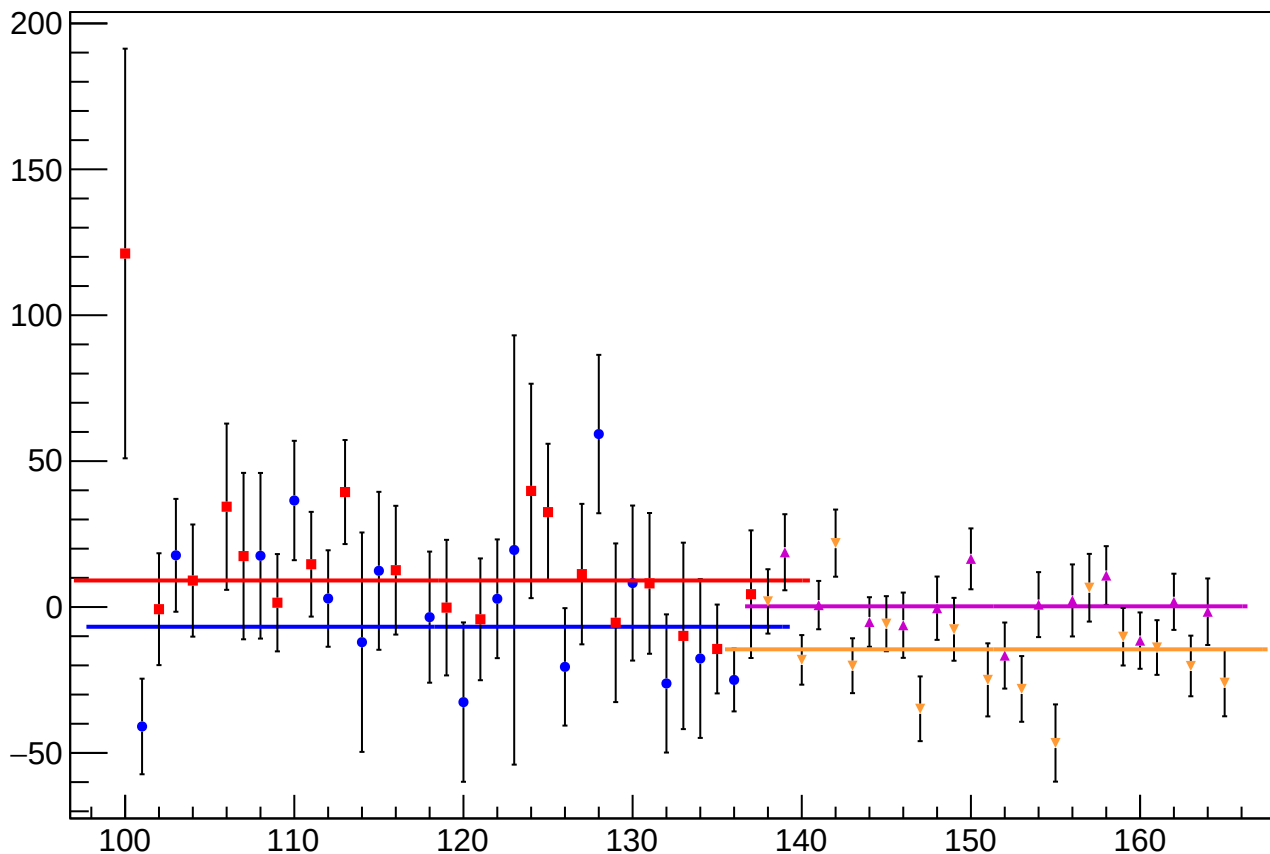
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7243.404+/-1.269 χ^2/NDF : 1247333.4/29

Out: 7249.362+/-1.224 χ^2/NDF : 1068042.1/33

All: 7246.489+/-0.881 χ^2/NDF : 2315386.9/63

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.760 ± 5.085 χ^2/NDF : 23.7/16

Left Out: -14.495 ± 2.723 χ^2/NDF : 30.2/14

Right Out: 9.102 ± 5.070 χ^2/NDF : 12.2/18

Left In: 0.242 ± 2.869 χ^2/NDF : 10.1/12

Left: -7.510 ± 1.975 χ^2/NDF : 54.2/27

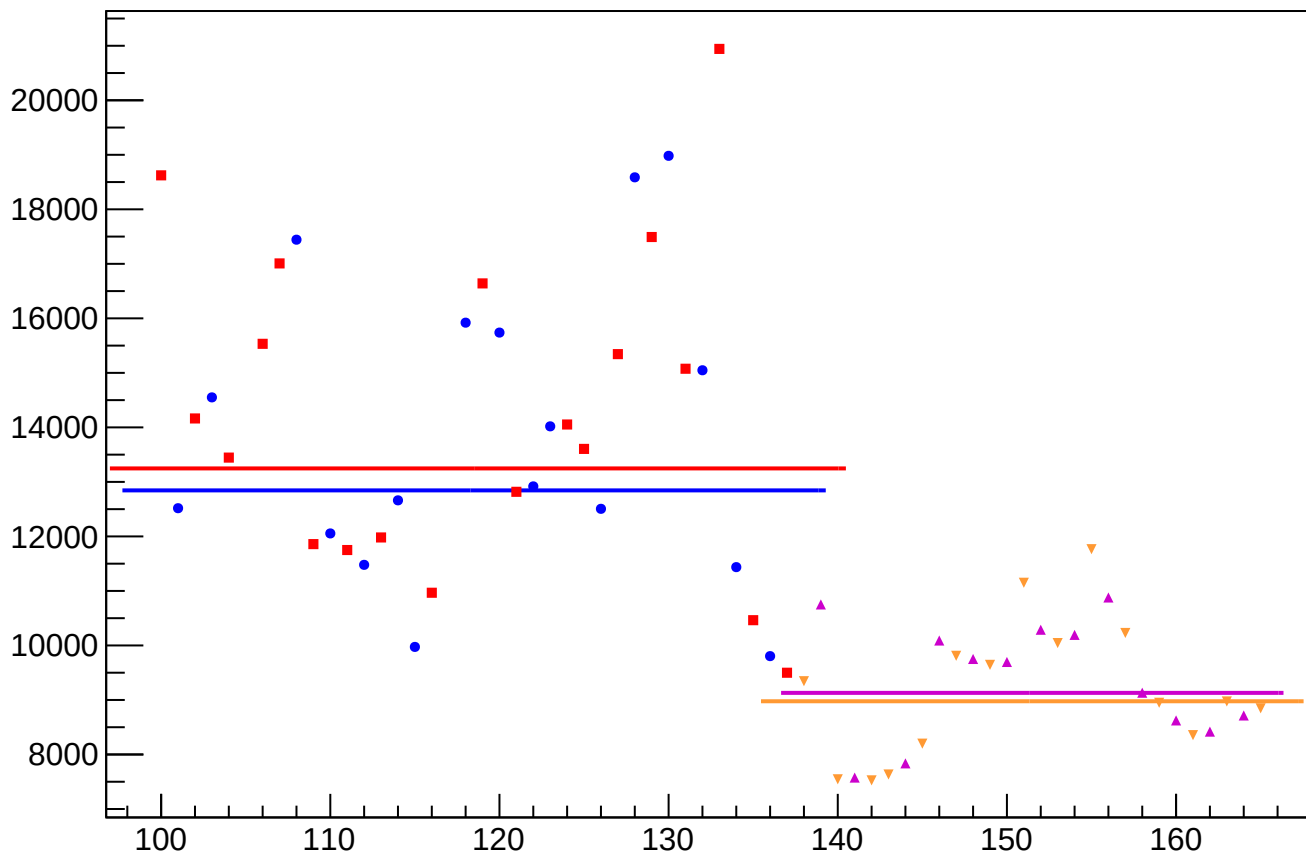
Right: 1.193 ± 3.590 χ^2/NDF : 40.8/35

In: -1.449 ± 2.499 χ^2/NDF : 35.2/29

Out: -9.213 ± 2.399 χ^2/NDF : 59.3/33

All: -5.488 ± 1.730 χ^2/NDF : 99.5/63

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12844.321+/-3.595 χ^2/NDF : 547271.0/16

Left Out: 8976.233+/-1.926 χ^2/NDF : 363586.4/14

Right Out: 13247.253+/-3.585 χ^2/NDF : 485481.6/18

Left In: 9130.173+/-2.029 χ^2/NDF : 273321.0/12

Left: 9049.197+/-1.397 χ^2/NDF : 639936.8/27

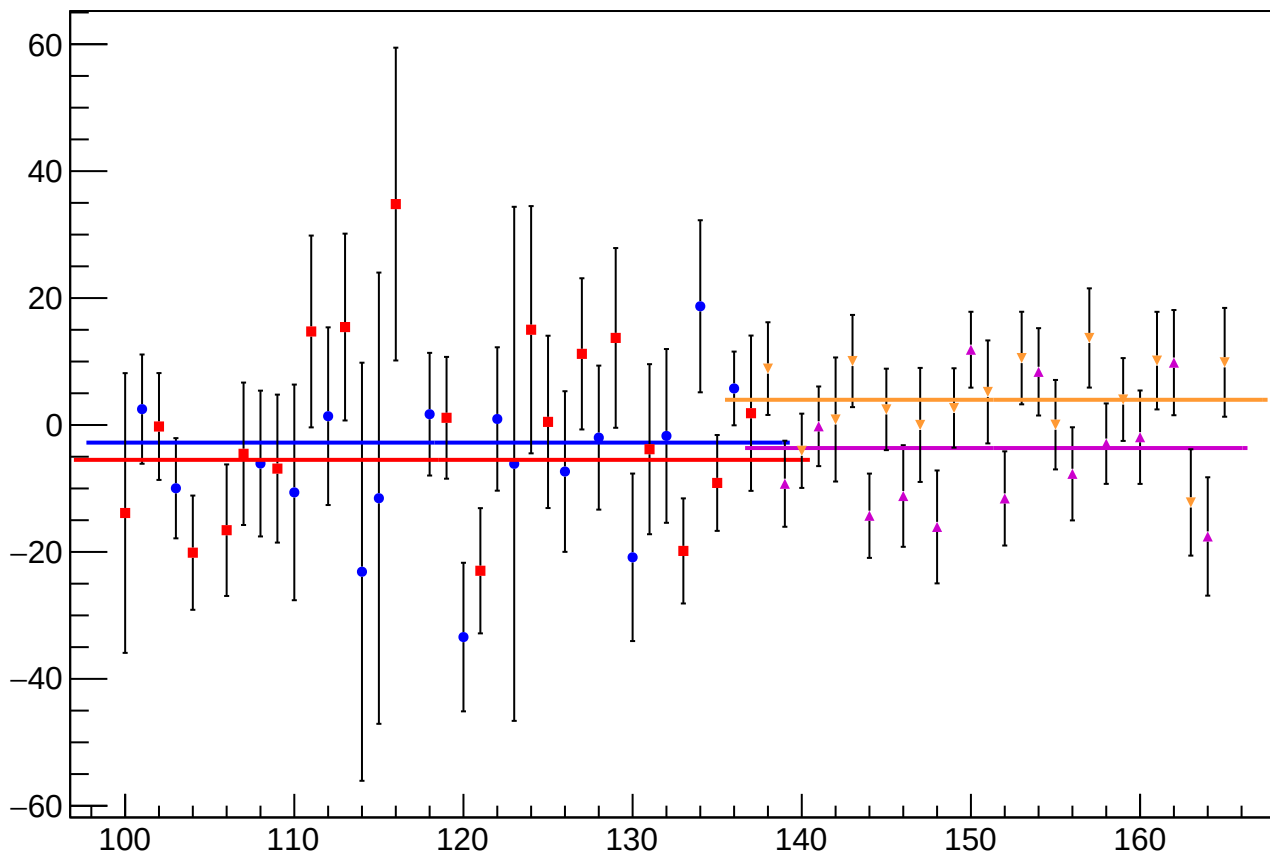
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

In: 10026.973+/-1.767 χ^2/NDF : 1630059.5/29

Out: 9932.356+/-1.696 χ^2/NDF : 1950442.5/33

All: 9977.744+/-1.224 χ^2/NDF : 3581994.3/63

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774 ± 2.732 χ^2/NDF : 15.9/16

Left Out: 3.973 ± 1.895 χ^2/NDF : 11.0/14

Right Out: -5.491 ± 2.587 χ^2/NDF : 23.2/18

Left In: -3.630 ± 1.987 χ^2/NDF : 22.6/12

Left: 0.351 ± 1.371 χ^2/NDF : 41.2/27

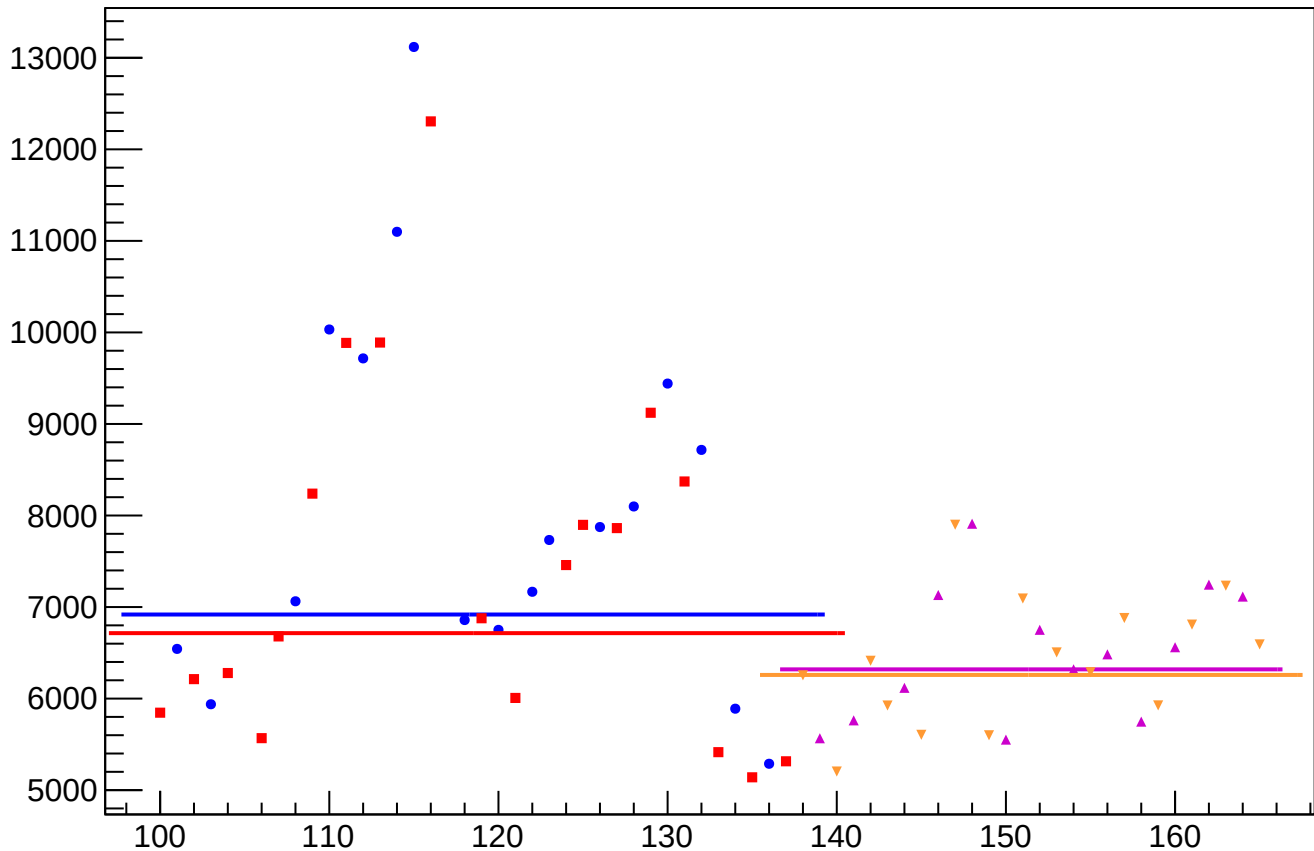
Right: -4.206 ± 1.879 χ^2/NDF : 39.6/35

In: -3.334 ± 1.607 χ^2/NDF : 38.5/29

Out: 0.668 ± 1.529 χ^2/NDF : 42.9/33

All: -1.234 ± 1.108 χ^2/NDF : 84.6/63

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6918.477+/-1.932 χ^2/NDF : 587039.3/16

Left Out: 6258.416+/-1.340 χ^2/NDF : 261151.7/14

Right Out: 6715.022+/-1.830 χ^2/NDF : 656010.3/18

Left In: 6319.294+/-1.405 χ^2/NDF : 225431.9/12

Left: 6287.422+/-0.970 χ^2/NDF : 487566.7/27

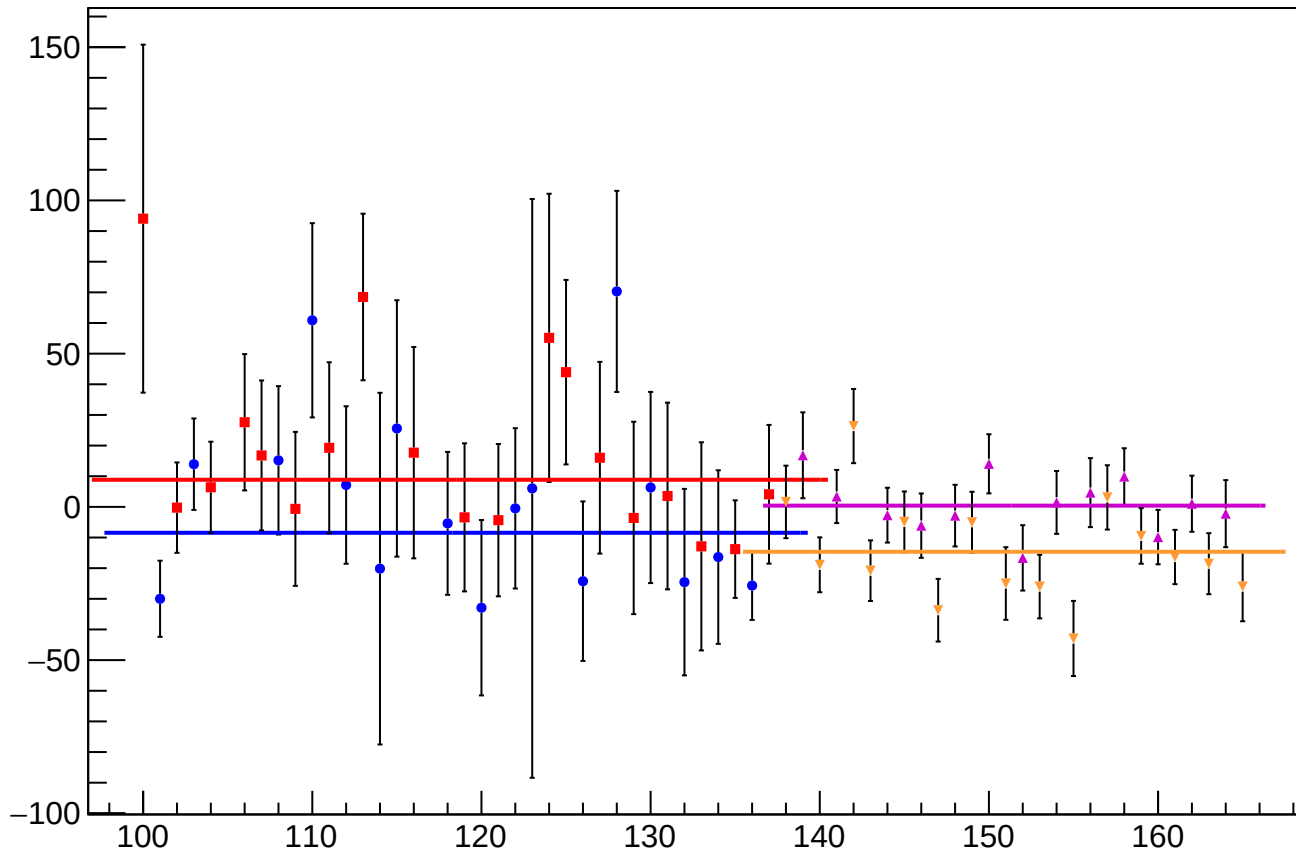
Right: 6811.237+/-1.328 χ^2/NDF : 1248897.6/35

In: 6526.604+/-1.136 χ^2/NDF : 875404.7/29

Out: 6417.871+/-1.081 χ^2/NDF : 957695.0/33

All: 6469.544+/-0.783 χ^2/NDF : 1837906.0/63

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.448 $\pm$ 5.393 χ^2/NDF : 22.0/16

Left Out: -14.643 $\pm$ 2.659 χ^2/NDF : 31.0/14

Right Out: 8.854 $\pm$ 5.508 χ^2/NDF : 14.2/18

Left In: 0.406 $\pm$ 2.758 χ^2/NDF : 9.3/12

Left: -7.392 $\pm$ 1.914 χ^2/NDF : 55.7/27

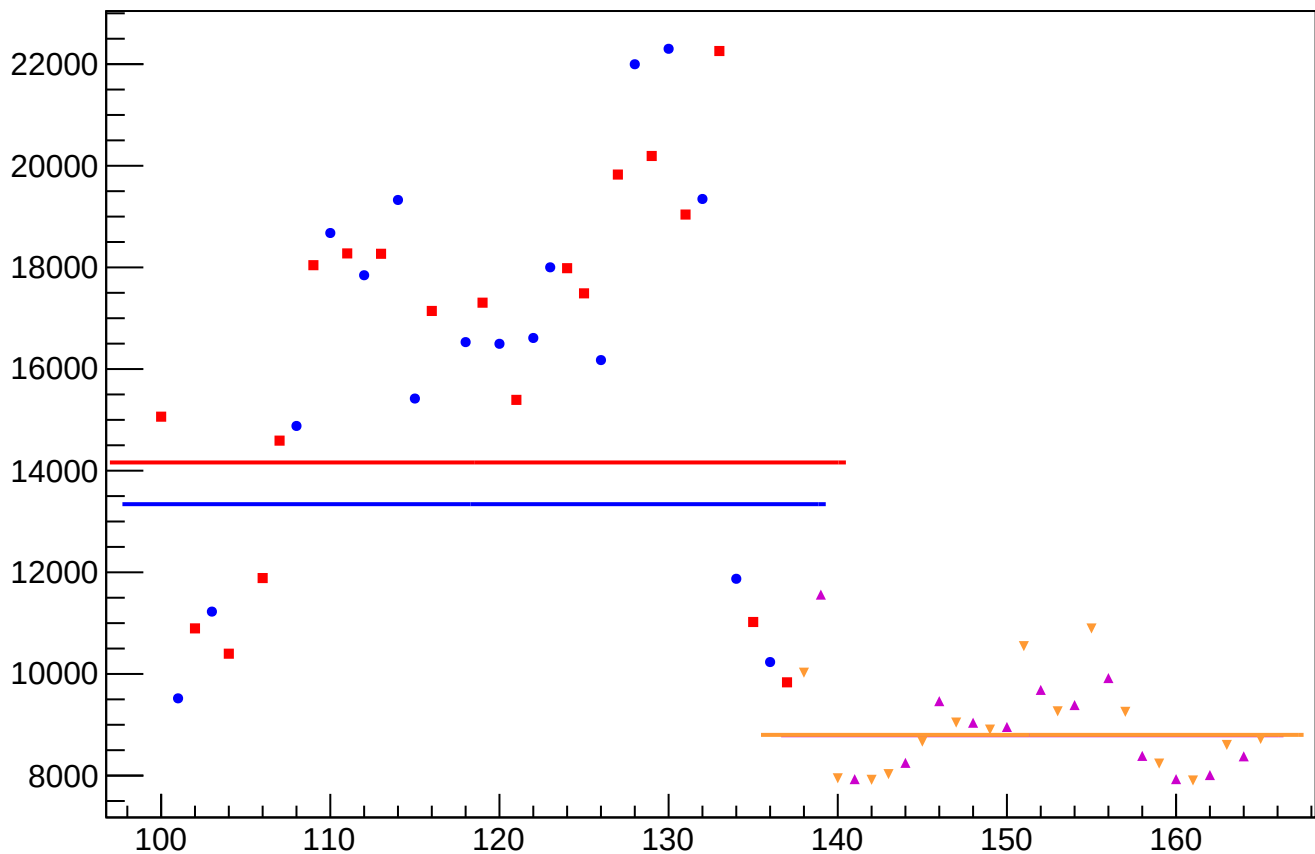
Right: 0.019 $\pm$ 3.854 χ^2/NDF : 41.3/35

In: -1.430 $\pm$ 2.455 χ^2/NDF : 33.4/29

Out: -10.202 $\pm$ 2.395 χ^2/NDF : 60.0/33

All: -5.925 $\pm$ 1.714 χ^2/NDF : 100.0/63

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13340.948+/-3.813 χ^2/NDF : 1044569.8/16

Left Out: 8801.290+/-1.880 χ^2/NDF : 202857.0/14

Right Out: 14161.826+/-3.895 χ^2/NDF : 931787.3/18

Left In: 8793.669+/-1.950 χ^2/NDF : 196116.3/12

Left: 8797.618+/-1.354 χ^2/NDF : 398981.3/27

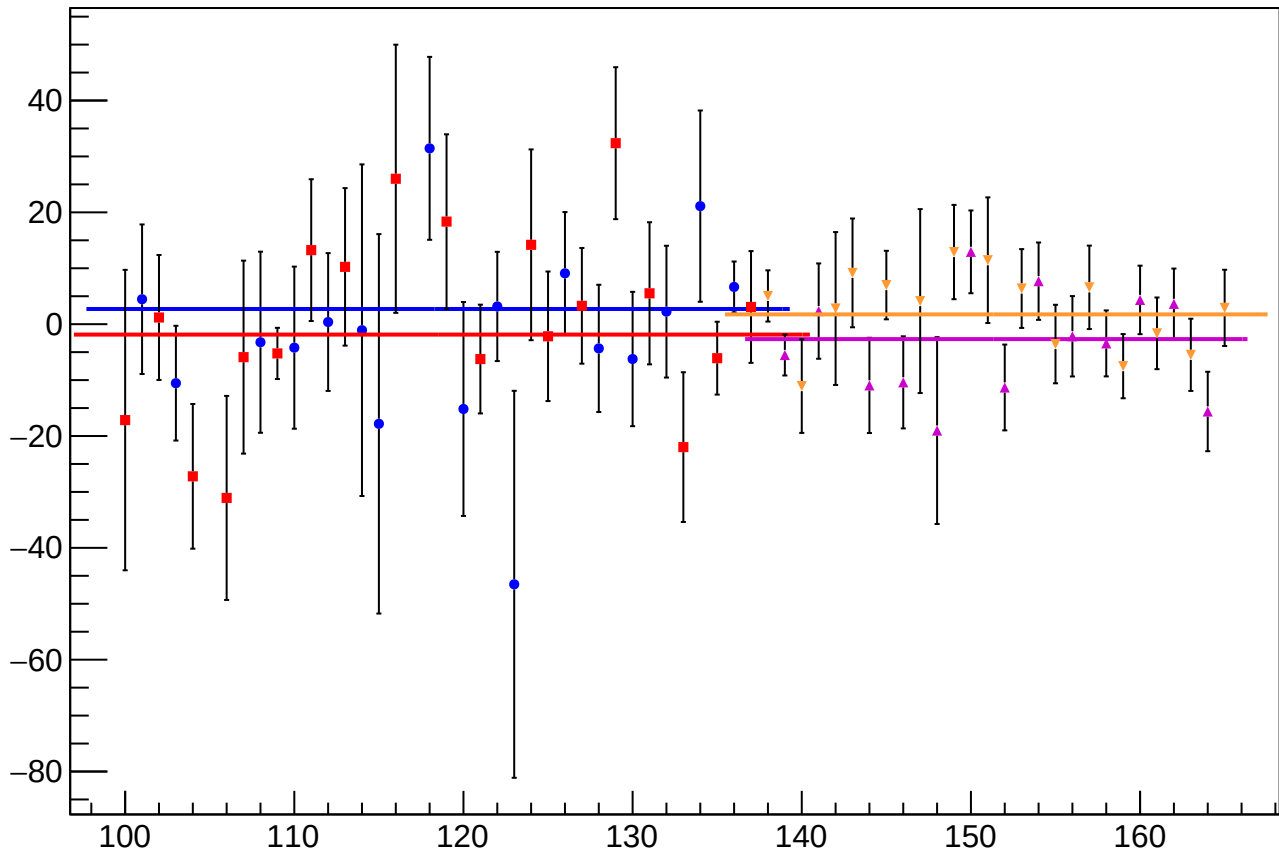
Right: 13742.695+/-2.725 χ^2/NDF : 1999035.6/35

In: 9736.373+/-1.736 χ^2/NDF : 2367850.4/29

Out: 9814.591+/-1.693 χ^2/NDF : 2670695.9/33

All: 9776.458+/-1.212 χ^2/NDF : 5039586.4/63

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 $\pm$ 2.752 χ^2/NDF : 11.6/16

Left Out: 1.754 $\pm$ 1.861 χ^2/NDF : 12.3/14

Right Out: -1.861 $\pm$ 2.439 χ^2/NDF : 23.5/18

Left In: -2.669 $\pm$ 1.836 χ^2/NDF : 17.3/12

Left: -0.487 $\pm$ 1.307 χ^2/NDF : 32.5/27

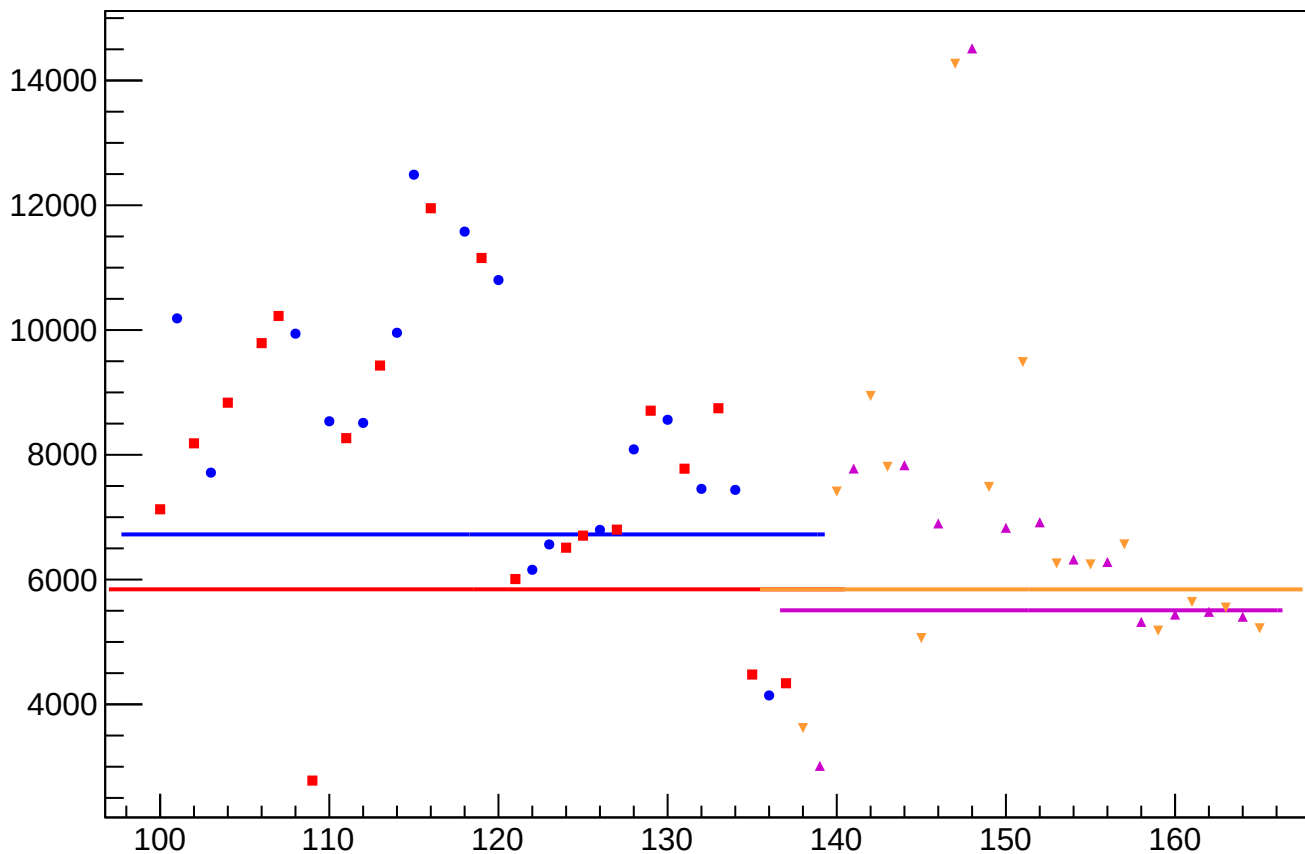
Right: 0.153 $\pm$ 1.825 χ^2/NDF : 36.7/35

In: -1.010 $\pm$ 1.528 χ^2/NDF : 31.6/29

Out: 0.424 $\pm$ 1.479 χ^2/NDF : 37.2/33

All: -0.270 $\pm$ 1.063 χ^2/NDF : 69.3/63

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6723.839+/-1.946 χ^2/NDF : 1392082.5/16

Left Out: 5842.882+/-1.316 χ^2/NDF : 1650884.6/14

Right Out: 5843.829+/-1.725 χ^2/NDF : 2277223.8/18

Left In: 5507.162+/-1.299 χ^2/NDF : 2045405.7/12

Left: 5672.796+/-0.924 χ^2/NDF : 3729268.1/27

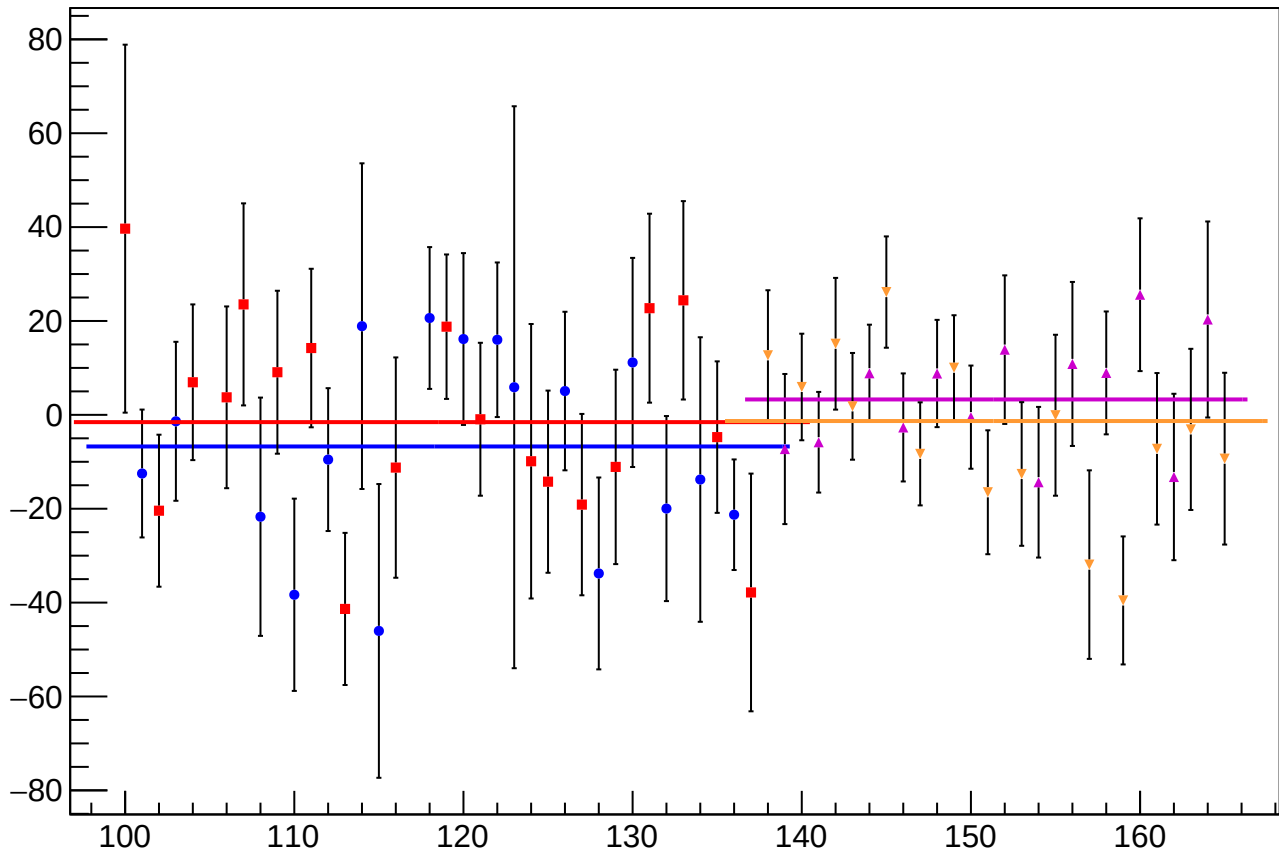
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5882.010+/-1.080 χ^2/NDF : 3707961.4/29

Out: 5843.230+/-1.046 χ^2/NDF : 3928108.6/33

All: 5862.000+/-0.751 χ^2/NDF : 7636735.1/63

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 ± 4.513 $\chi^2/\text{NDF}: 16.9/16$

Left Out: -1.317 ± 3.521 $\chi^2/\text{NDF}: 22.1/14$

Right Out: -1.549 ± 4.372 $\chi^2/\text{NDF}: 20.0/18$

Left In: 3.281 ± 3.735 $\chi^2/\text{NDF}: 7.5/12$

Left: 0.846 ± 2.562 $\chi^2/\text{NDF}: 30.4/27$

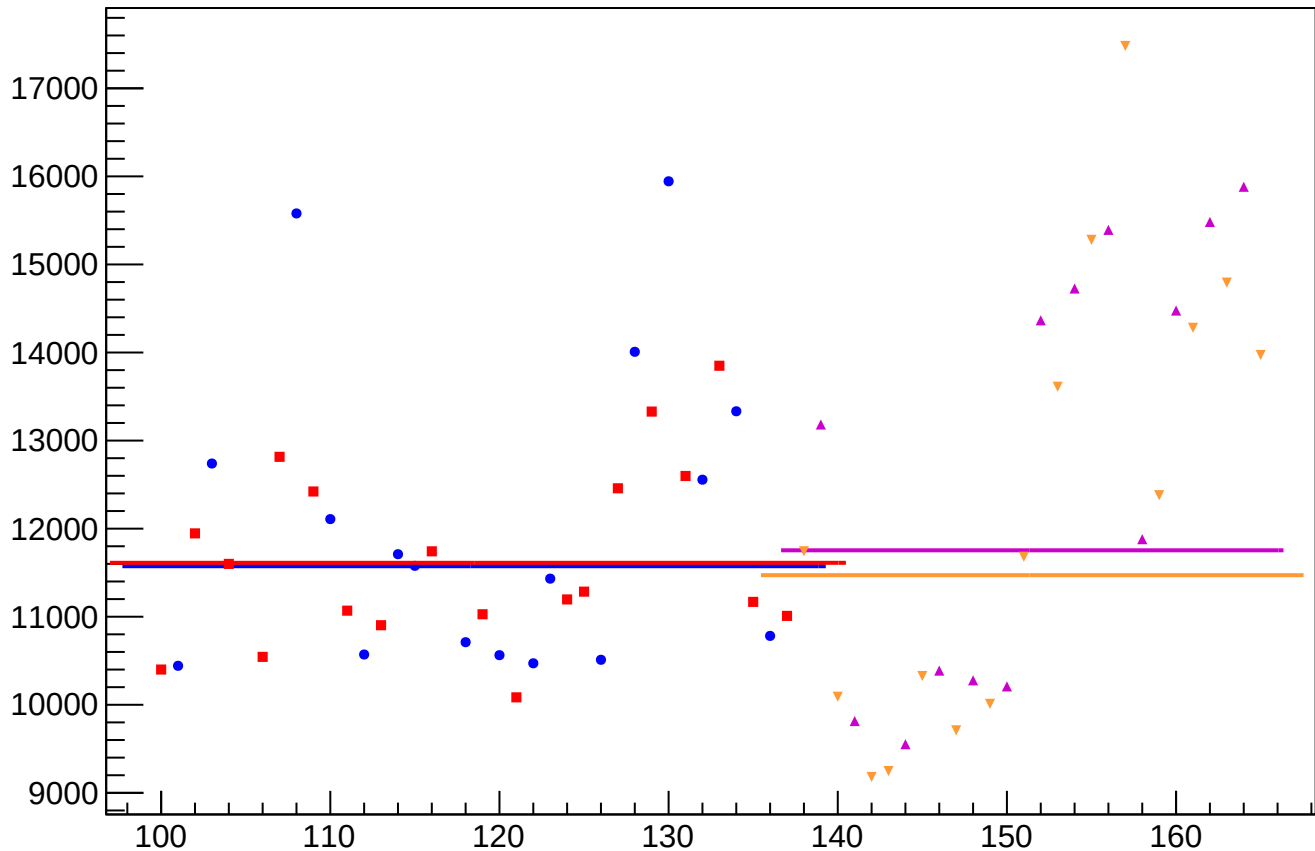
Right: -4.061 ± 3.140 $\chi^2/\text{NDF}: 37.5/35$

In: -0.792 ± 2.878 $\chi^2/\text{NDF}: 27.3/29$

Out: -1.409 ± 2.742 $\chi^2/\text{NDF}: 42.0/33$

All: -1.115 ± 1.985 $\chi^2/\text{NDF}: 69.4/63$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11573.490+/-3.191 χ^2/NDF : 238734.7/16

Left Out: 11471.795+/-2.490 χ^2/NDF : 763431.9/14

Right Out: 11612.220+/-3.092 χ^2/NDF : 94308.1/18

Left In: 11754.038+/-2.641 χ^2/NDF : 705511.9/12

Left: 11604.580+/-1.812 χ^2/NDF : 1474990.1/27

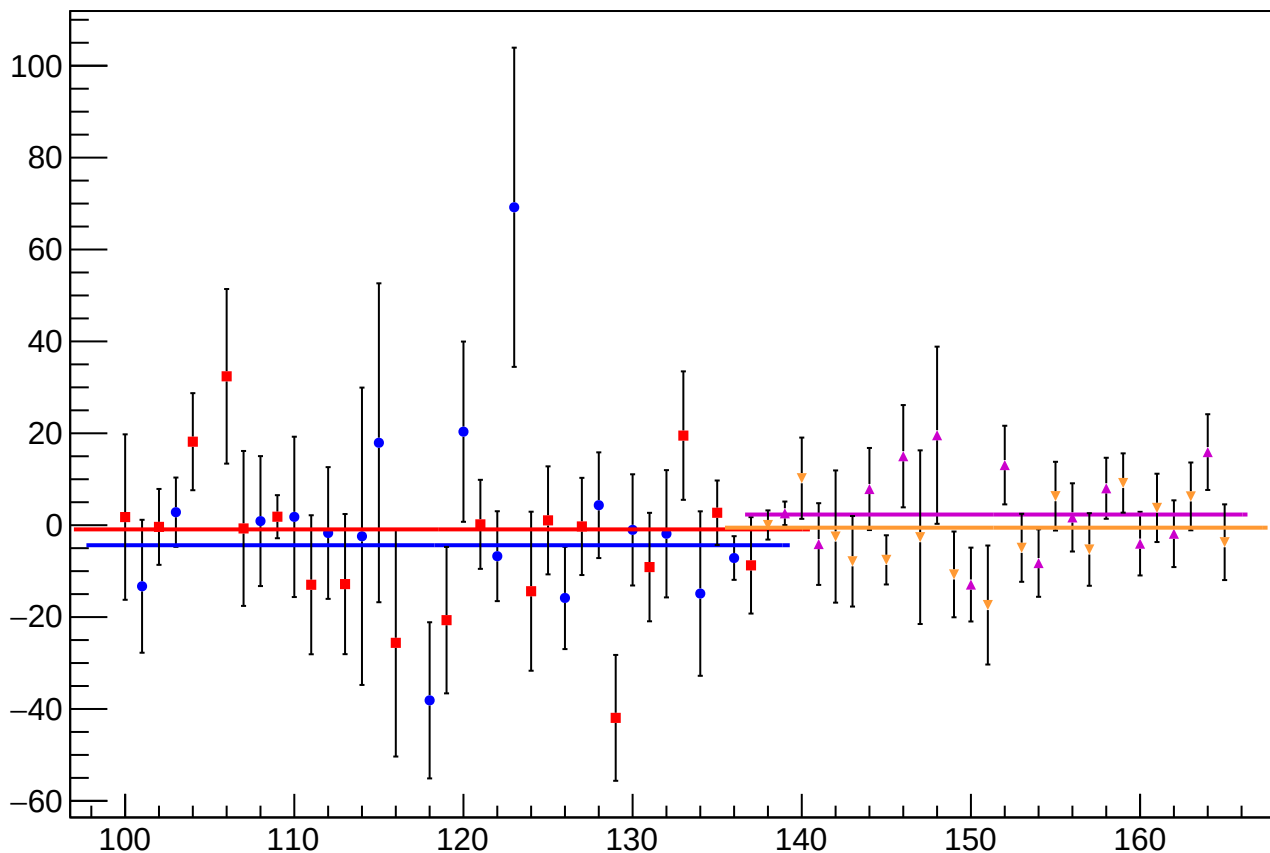
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11680.632+/-2.035 χ^2/NDF : 946146.2/29

Out: 11527.034+/-1.939 χ^2/NDF : 858991.4/33

All: 11600.139+/-1.404 χ^2/NDF : 1808123.9/6

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 ± 2.776 χ^2/NDF : 14.5/16

Left Out: -0.541 ± 1.798 χ^2/NDF : 11.8/14

Right Out: -0.914 ± 2.426 χ^2/NDF : 23.5/18

Left In: 2.320 ± 1.737 χ^2/NDF : 14.9/12

Left: 0.938 ± 1.249 χ^2/NDF : 28.1/27

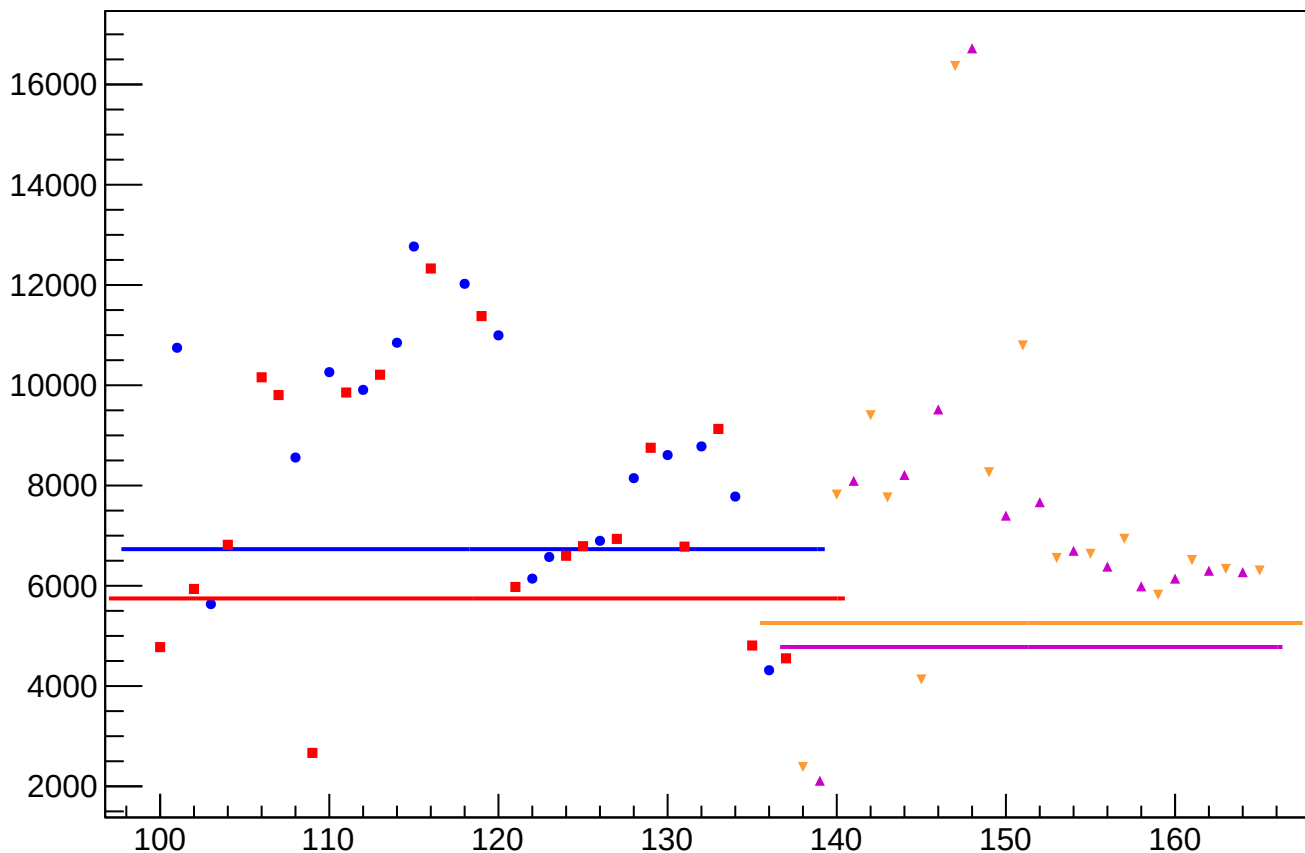
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: 0.440 ± 1.473 χ^2/NDF : 33.6/29

Out: -0.673 ± 1.444 χ^2/NDF : 35.4/33

All: -0.127 ± 1.031 χ^2/NDF : 69.3/63

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 +/- 1.963 χ^2/NDF : 1445240.4/16

Left Out: 5257.950 +/- 1.271 χ^2/NDF : 3817832.6/14

Right Out: 5747.643 +/- 1.716 χ^2/NDF : 2162236.7/18

Left In: 4779.174 +/- 1.228 χ^2/NDF : 4840000.8/12

Left: 5010.365 +/- 0.883 χ^2/NDF : 8731199.0/27

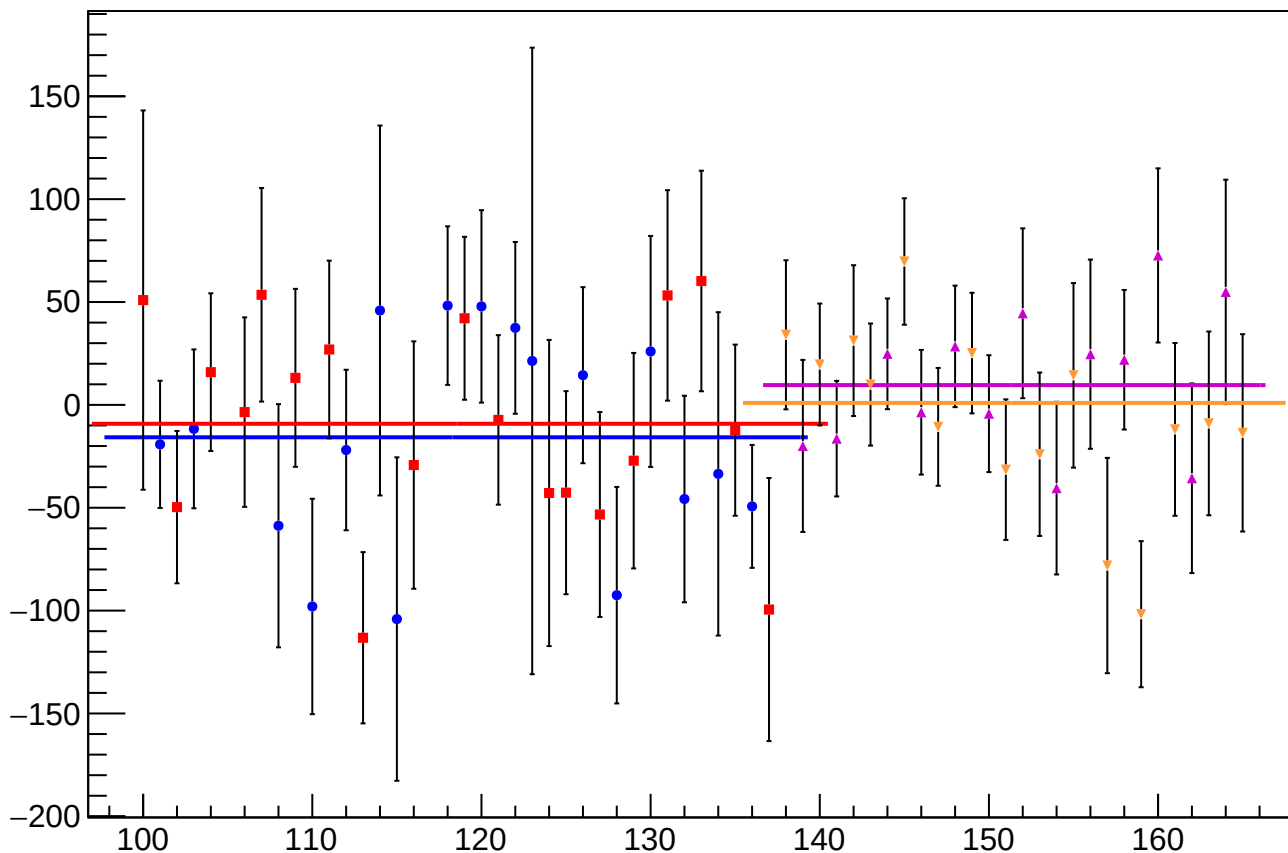
Right: 6173.310 +/- 1.292 χ^2/NDF : 3749669.1/35

In: 5328.234 +/- 1.041 χ^2/NDF : 6995451.8/29

Out: 5431.510 +/- 1.021 χ^2/NDF : 6032672.5/33

All: 5380.872 +/- 0.729 χ^2/NDF : 13033138.1/6

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -15.751 ± 11.207 $\chi^2/\text{NDF}: 15.9/16$

Left Out: 0.964 ± 9.178 $\chi^2/\text{NDF}: 20.1/14$

Right Out: -9.179 ± 10.889 $\chi^2/\text{NDF}: 19.3/18$

Left In: 9.622 ± 9.733 $\chi^2/\text{NDF}: 8.8/12$

Left: 5.039 ± 6.677 $\chi^2/\text{NDF}: 29.3/27$

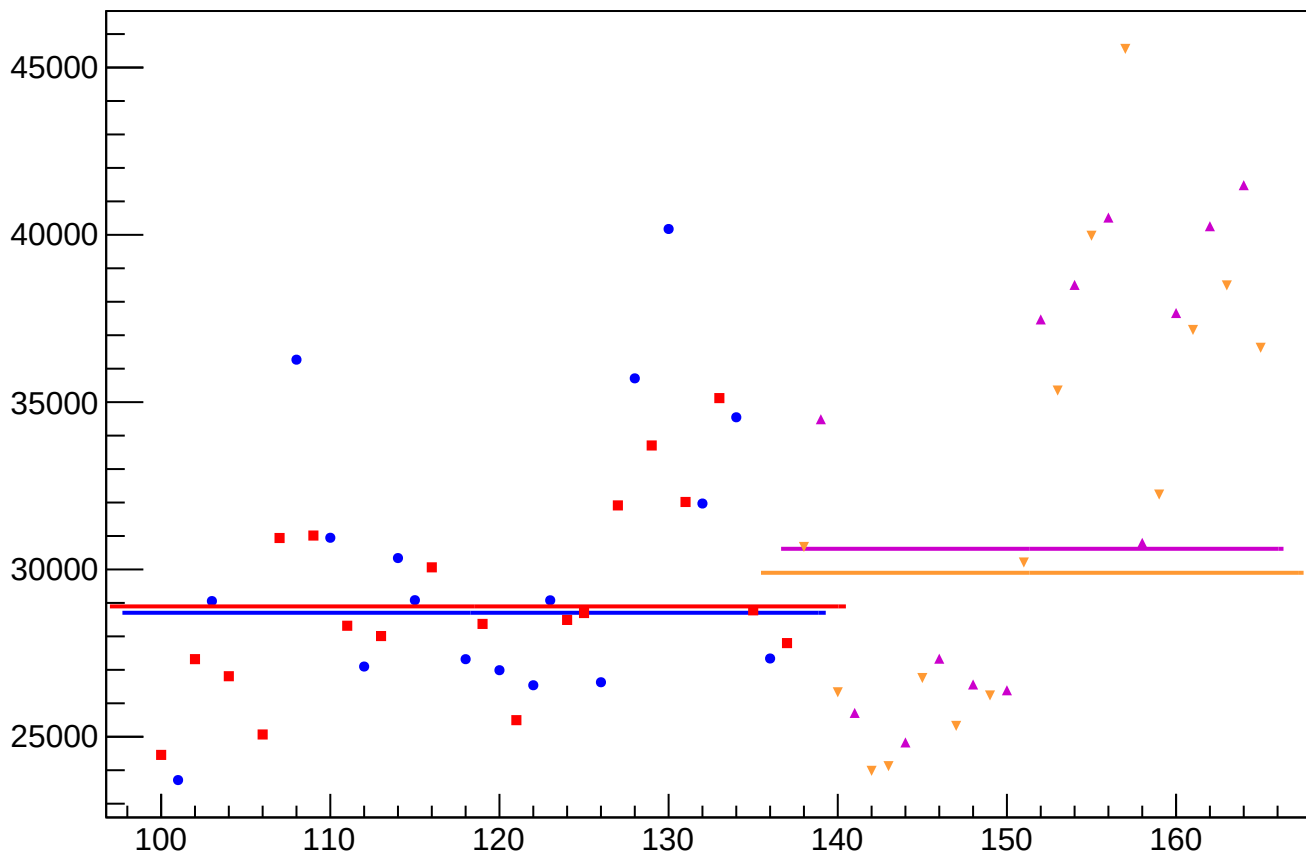
Right: -12.370 ± 7.810 $\chi^2/\text{NDF}: 35.4/35$

In: -1.287 ± 7.349 $\chi^2/\text{NDF}: 27.6/29$

Out: -3.249 ± 7.018 $\chi^2/\text{NDF}: 39.9/33$

All: -2.313 ± 5.075 $\chi^2/\text{NDF}: 67.5/63$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569+/-7.925

χ^2/NDF : 250992.5/16

Left Out: 29900.413+/-6.490

χ^2/NDF : 760669.7/14

Right Out: 28895.535+/-7.700

χ^2/NDF : 111212.6/18

Left In: 30617.412+/-6.882

χ^2/NDF : 716904.0/12

Left: 30237.873+/-4.722

χ^2/NDF : 1483319.0/27

Right: 28803.288+/-5.522

χ^2/NDF : 362500.7/35

In: 29795.443+/-5.196

χ^2/NDF : 1001074.0/29

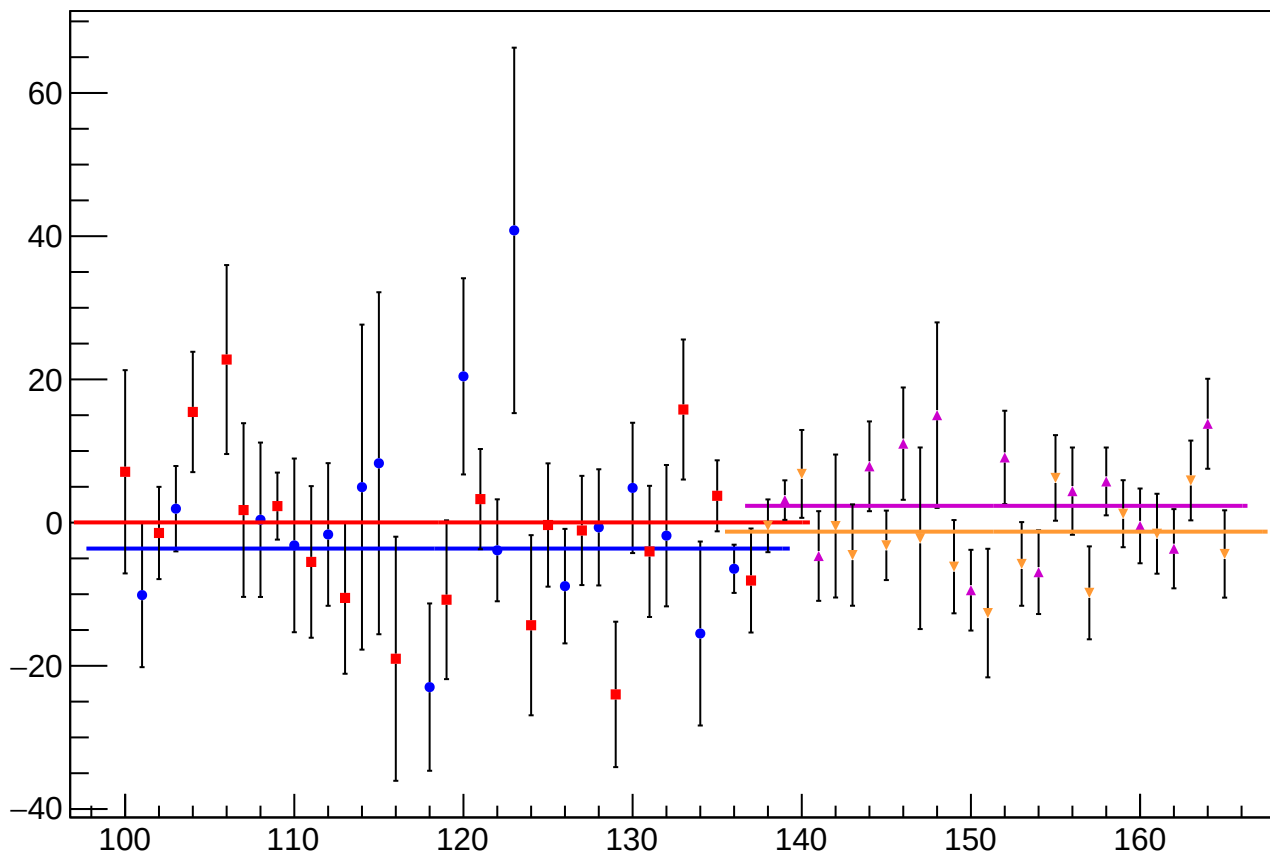
Out: 29483.064+/-4.962

χ^2/NDF : 881840.6/33

All: 29632.058+/-3.589

χ^2/NDF : 1884804.8/6

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.625 $\pm$ 2.006 χ^2/NDF : 13.7/16

Left Out: -1.262 $\pm$ 1.520 χ^2/NDF : 10.4/14

Right Out: 0.027 $\pm$ 1.890 χ^2/NDF : 22.1/18

Left In: 2.342 $\pm$ 1.483 χ^2/NDF : 17.7/12

Left: 0.585 $\pm$ 1.061 χ^2/NDF : 31.0/27

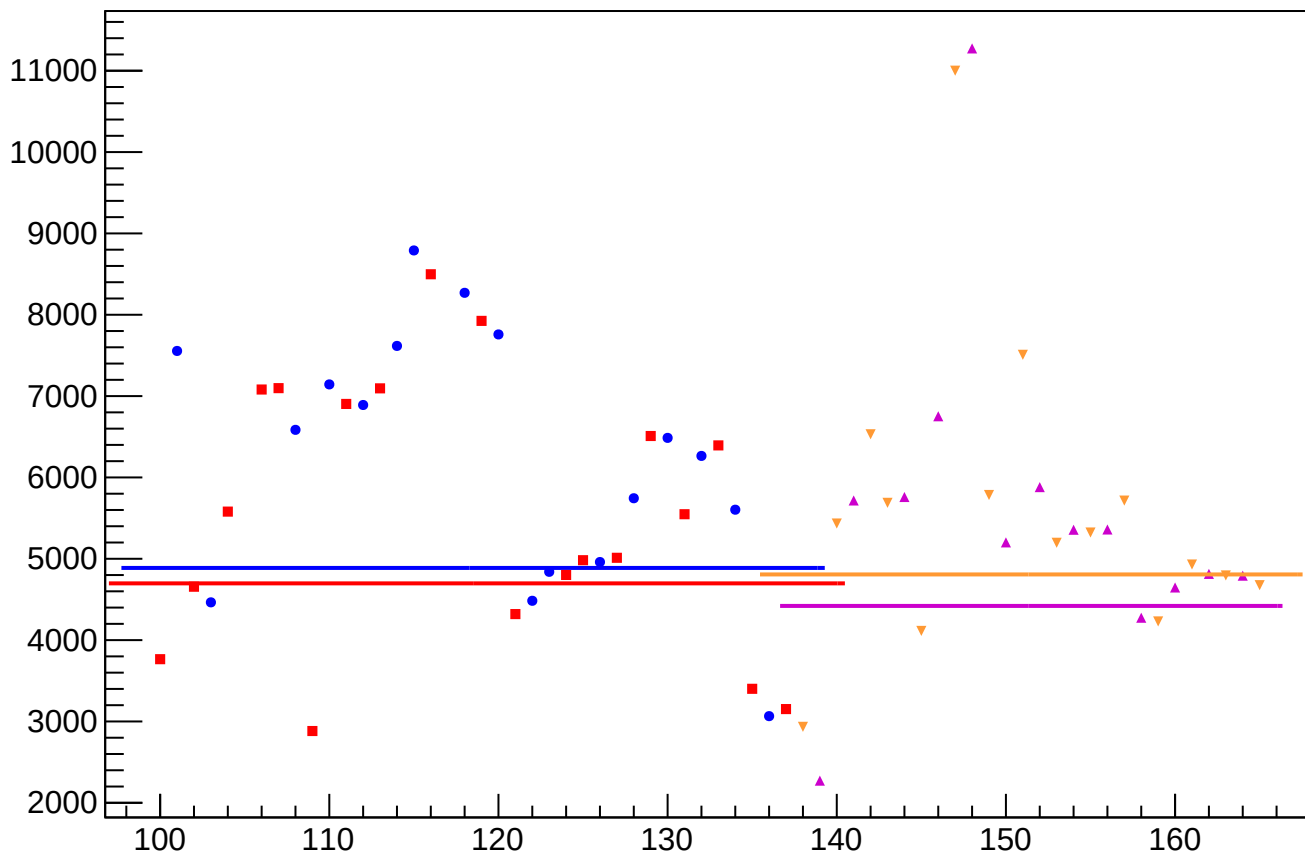
Right: -1.690 $\pm$ 1.376 χ^2/NDF : 37.6/35

In: 0.234 $\pm$ 1.192 χ^2/NDF : 37.1/29

Out: -0.756 $\pm$ 1.184 χ^2/NDF : 32.8/33

All: -0.264 $\pm$ 0.840 χ^2/NDF : 70.3/63

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.515+/-1.418 χ^2/NDF : 1409296.8/16

Left Out: 4807.517+/-1.075 χ^2/NDF : 1467668.5/14

Right Out: 4697.726+/-1.336 χ^2/NDF : 1313121.0/18

Left In: 4420.447+/-1.049 χ^2/NDF : 2384339.9/12

Left: 4609.194+/-0.751 χ^2/NDF : 3918460.1/27

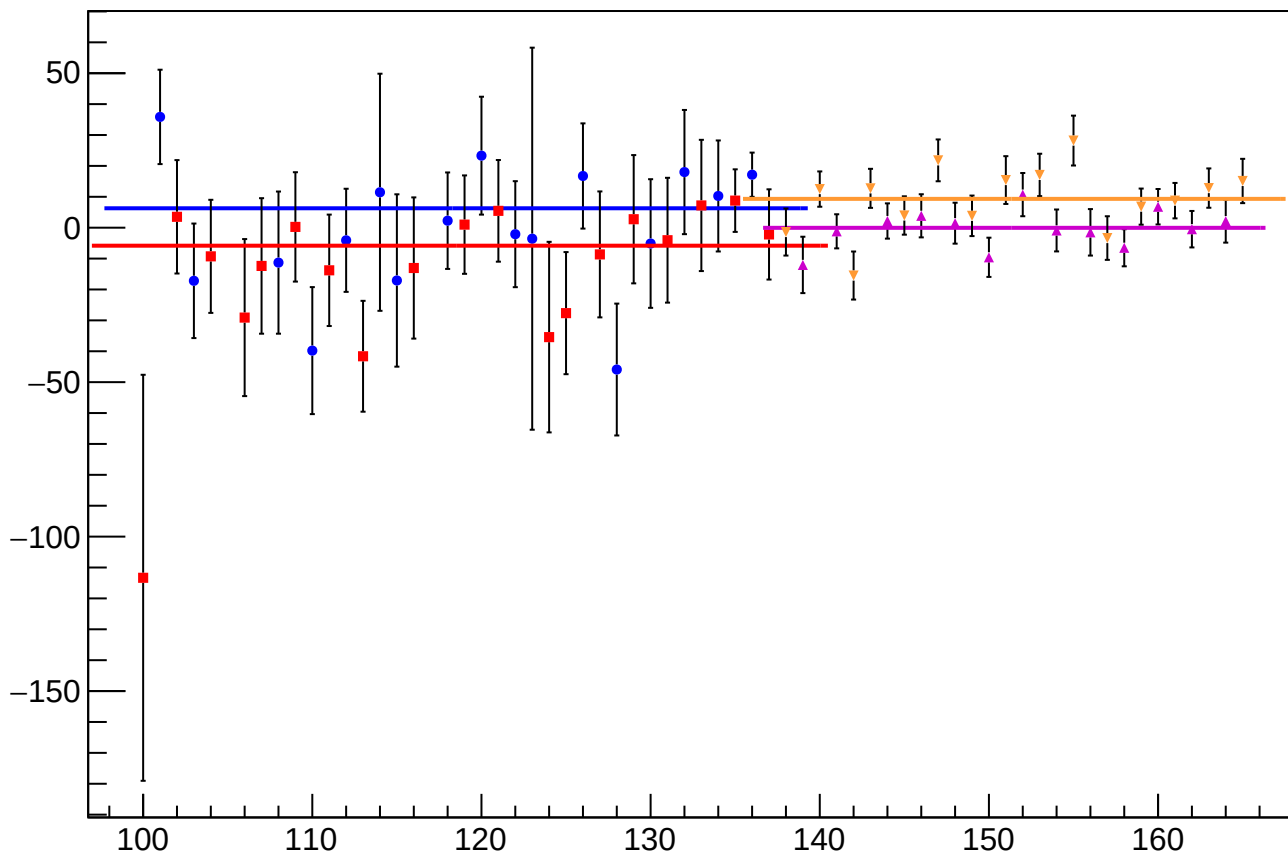
Right: 4786.972+/-0.973 χ^2/NDF : 2731901.7/35

In: 4585.484+/-0.843 χ^2/NDF : 3863749.5/29

Out: 4764.394+/-0.838 χ^2/NDF : 2784887.9/33

All: 4675.539+/-0.594 χ^2/NDF : 6671300.0/63

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 $\pm$ 4.064 χ^2 /NDF: 22.5/16

Left Out: 9.331 $\pm$ 1.721 χ^2 /NDF: 29.4/14

Right Out: -5.828 $\pm$ 4.219 χ^2 /NDF: 13.8/18

Left In: -0.046 $\pm$ 1.794 χ^2 /NDF: 9.6/12

Left: 4.836 $\pm$ 1.242 χ^2 /NDF: 53.2/27

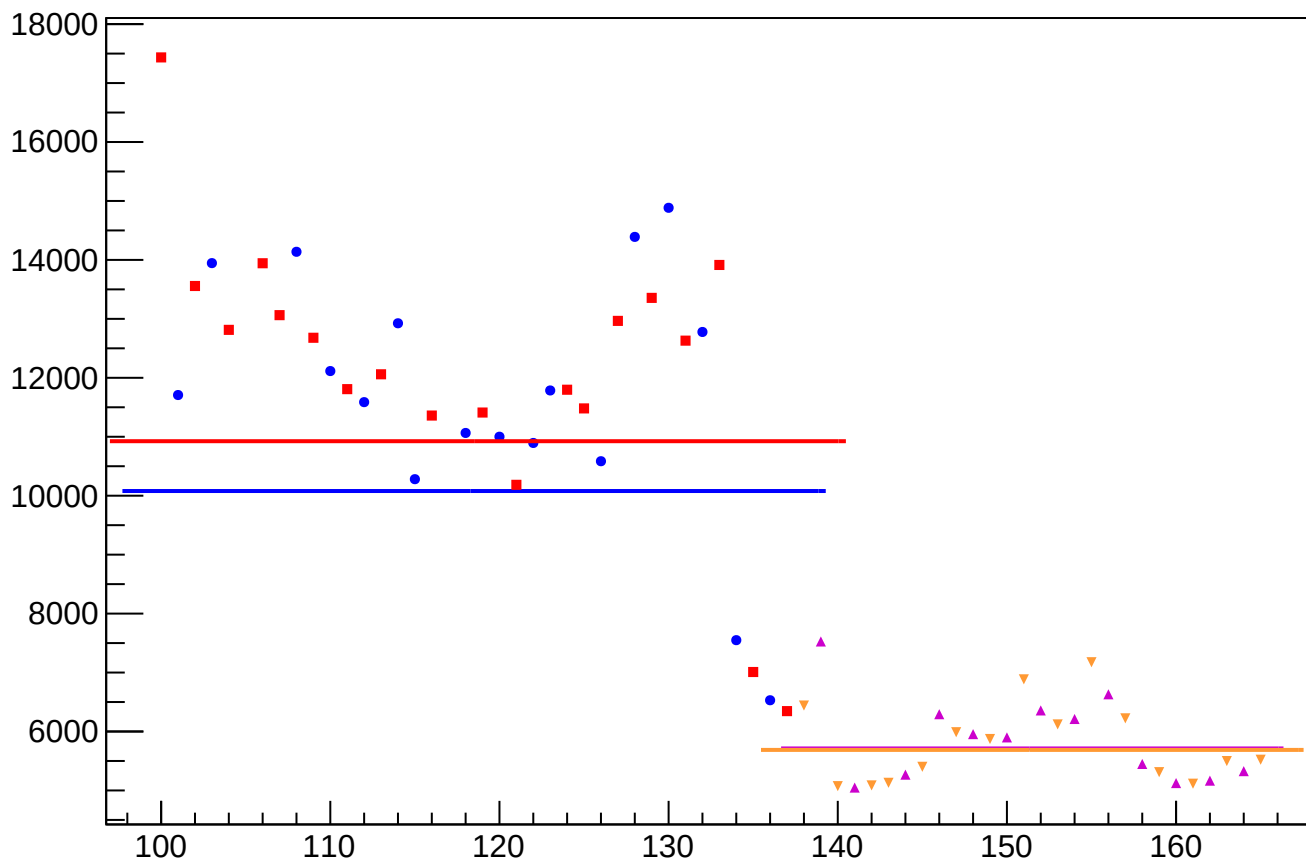
Right: 0.454 $\pm$ 2.927 χ^2 /NDF: 40.6/35

In: 0.986 $\pm$ 1.641 χ^2 /NDF: 34.2/29

Out: 7.169 $\pm$ 1.593 χ^2 /NDF: 54.2/33

All: 4.168 $\pm$ 1.143 χ^2 /NDF: 95.7/63

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10079.454 $\pm$ 2.874 χ^2/NDF : 994683.1/16

Left Out: 5687.751 $\pm$ 1.217 χ^2/NDF : 246535.1/14

Right Out: 10924.541 $\pm$ 2.983 χ^2/NDF : 768447.5/18

Left In: 5712.440 $\pm$ 1.268 χ^2/NDF : 244104.6/12

Left: 5699.585 $\pm$ 0.878 χ^2/NDF : 490837.0/27

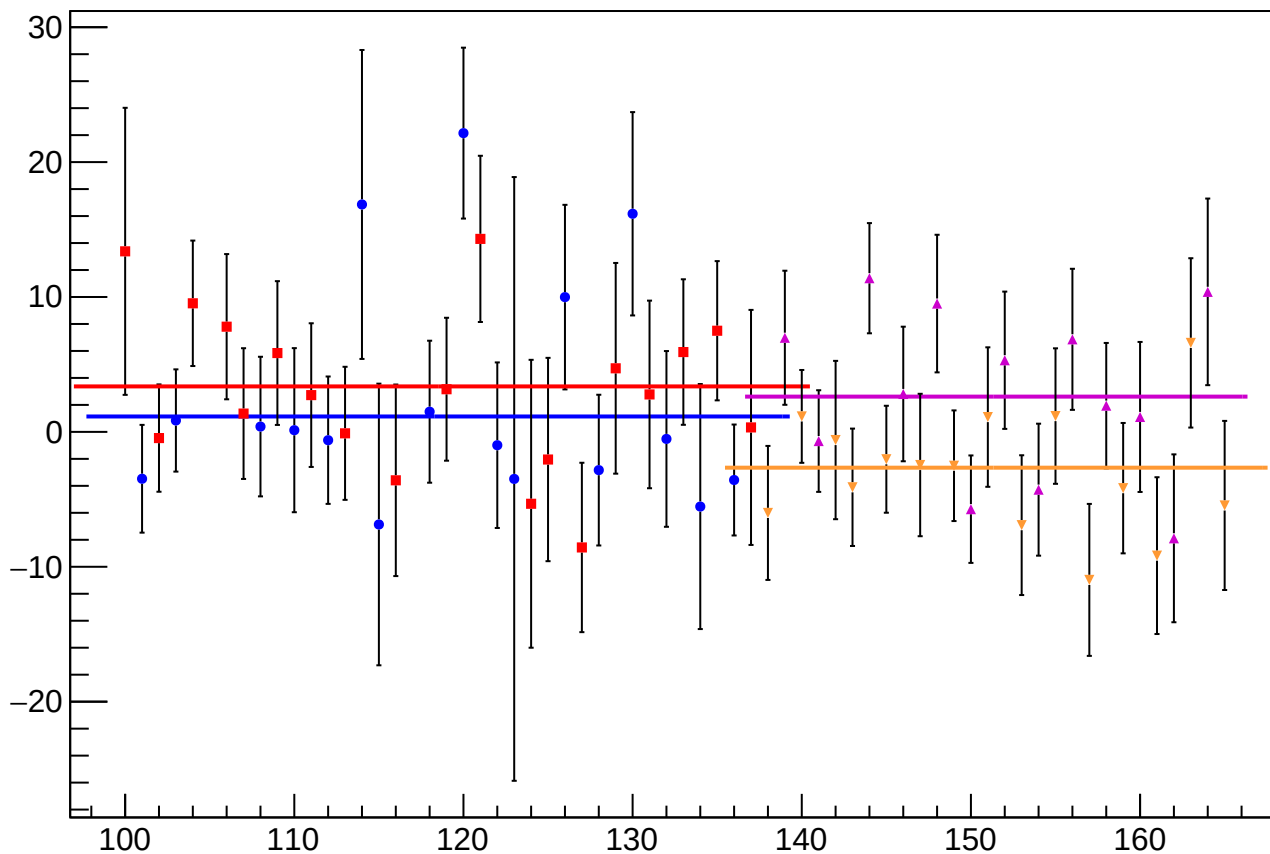
Right: 10486.193 $\pm$ 2.070 χ^2/NDF : 1804751.7/35

In: 6424.306 $\pm$ 1.160 χ^2/NDF : 3171578.4/29

Out: 6434.711 $\pm$ 1.127 χ^2/NDF : 3656711.1/33

All: 6429.661 $\pm$ 0.808 χ^2/NDF : 6828330.9/63

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.142 $\pm$ 1.395 χ^2 /NDF: 23.2/16

Left Out: -2.654 $\pm$ 1.255 χ^2 /NDF:9.6/14

Right Out: 3.371 $\pm$ 1.333 χ^2 /NDF: 15.1/18

Left In: 2.615 $\pm$ 1.342 χ^2 /NDF:19.5/12

Left: -0.197 $\pm$ 0.917 χ^2 /NDF: 37.4/27

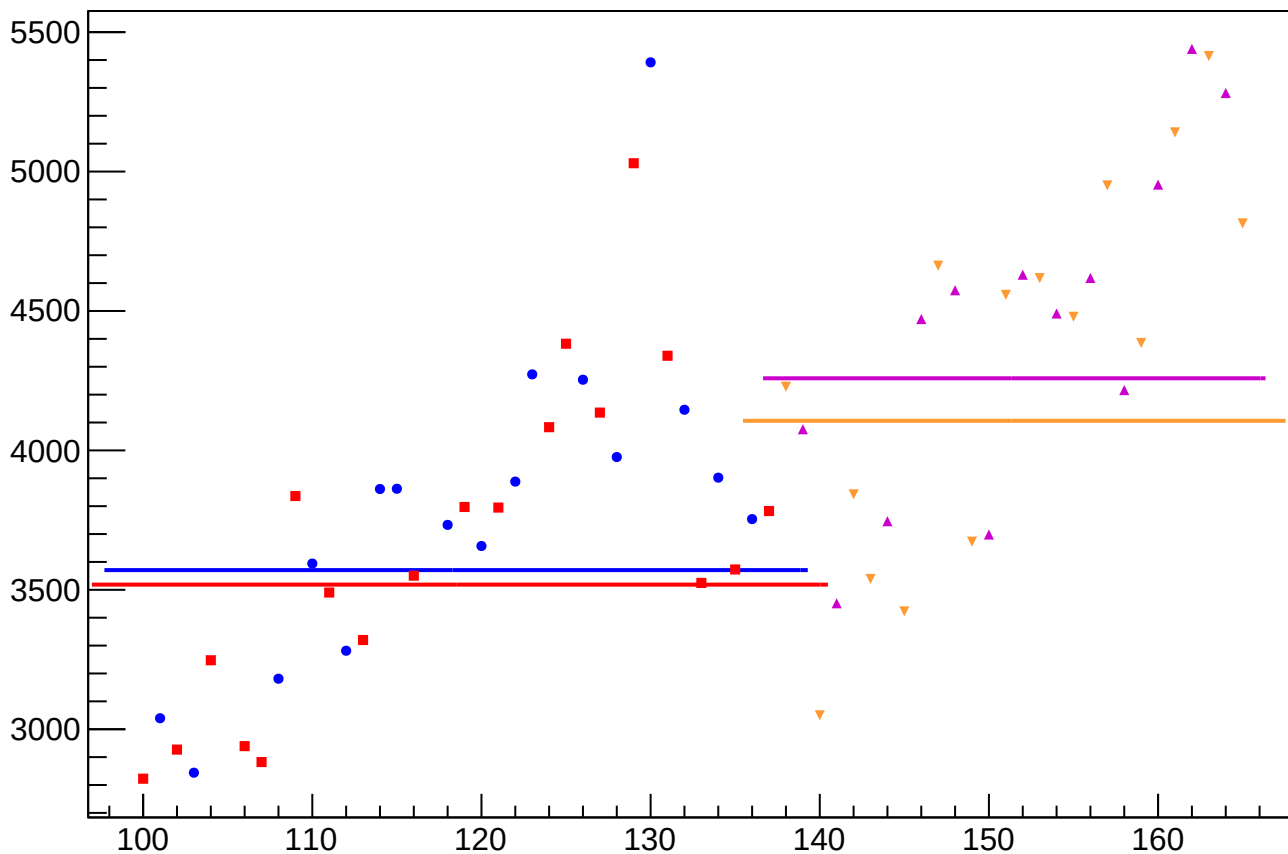
Right: 2.307 $\pm$ 0.964 χ^2 /NDF: 39.6/35

In: 1.907 $\pm$ 0.967 χ^2 /NDF:43.3/29

Out: 0.177 $\pm$ 0.914 χ^2 /NDF:35.5/33

All: 0.993 $\pm$ 0.664 χ^2 /NDF: 80.5/63

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.707+/-0.987 χ^2/NDF : 309568.0/16

Left Out: 4106.167+/-0.887 χ^2/NDF : 604661.4/14

Right Out: 3518.621+/-0.943 χ^2/NDF : 293227.8/18

Left In: 4258.581+/-0.949 χ^2/NDF : 348676.1/12

Left: 4177.251+/-0.648 χ^2/NDF : 967093.5/27

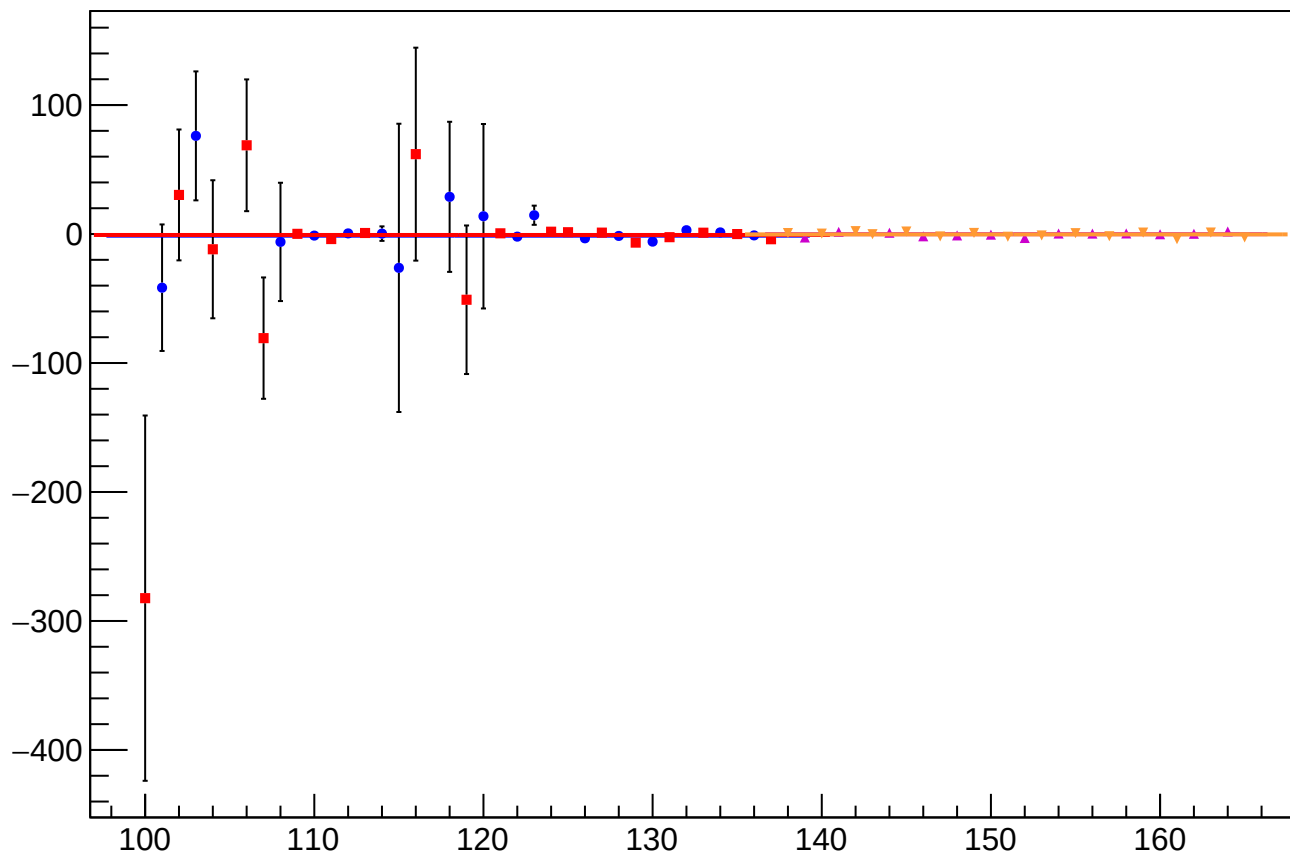
Right: 3543.480+/-0.682 χ^2/NDF : 604252.9/35

In: 3927.887+/-0.684 χ^2/NDF : 910679.7/29

Out: 3830.103+/-0.646 χ^2/NDF : 1103832.8/33

All: 3876.214+/-0.470 χ^2/NDF : 2025311.1/63

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.261 ± 0.748 χ^2/NDF : 16.3/16

Left Out: -0.277 ± 0.318 χ^2/NDF : 29.8/14

Right Out: -0.733 ± 0.710 χ^2/NDF : 22.1/18

Left In: -0.103 ± 0.328 χ^2/NDF : 18.5/12

Left: -0.193 ± 0.228 χ^2/NDF : 48.5/27

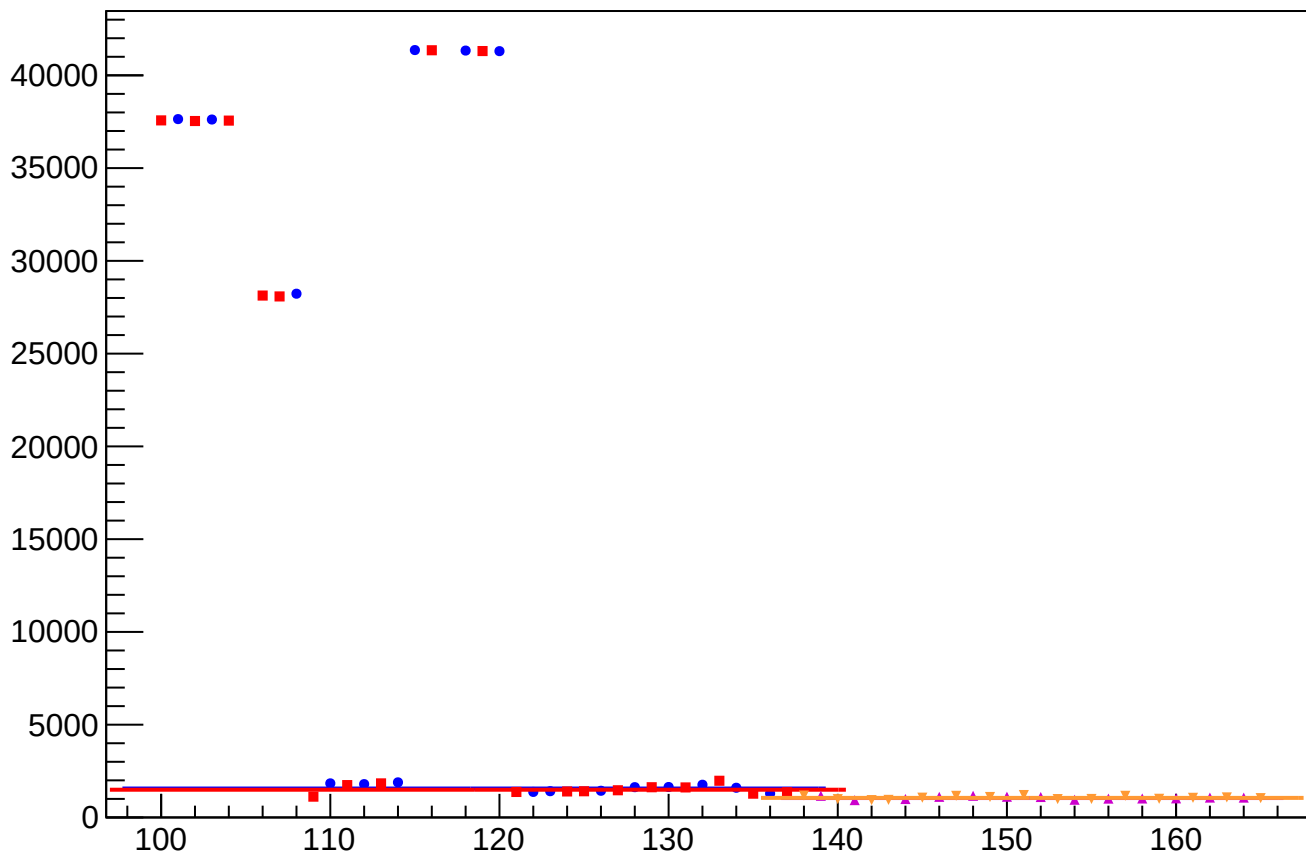
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.289 ± 0.300 χ^2/NDF : 36.8/29

Out: -0.353 ± 0.290 χ^2/NDF : 52.2/33

All: -0.322 ± 0.209 χ^2/NDF : 89.0/63

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1558.988 $\pm$ 0.529 χ^2/NDF : 4753669.7/16

Left Out: 1054.294 $\pm$ 0.225 χ^2/NDF : 129619.9/14

Right Out: 1494.619 $\pm$ 0.502 χ^2/NDF : 4892920.0/18

Left In: 1046.602 $\pm$ 0.232 χ^2/NDF : 97416.7/12

Left: 1050.566 $\pm$ 0.161 χ^2/NDF : 227604.8/27

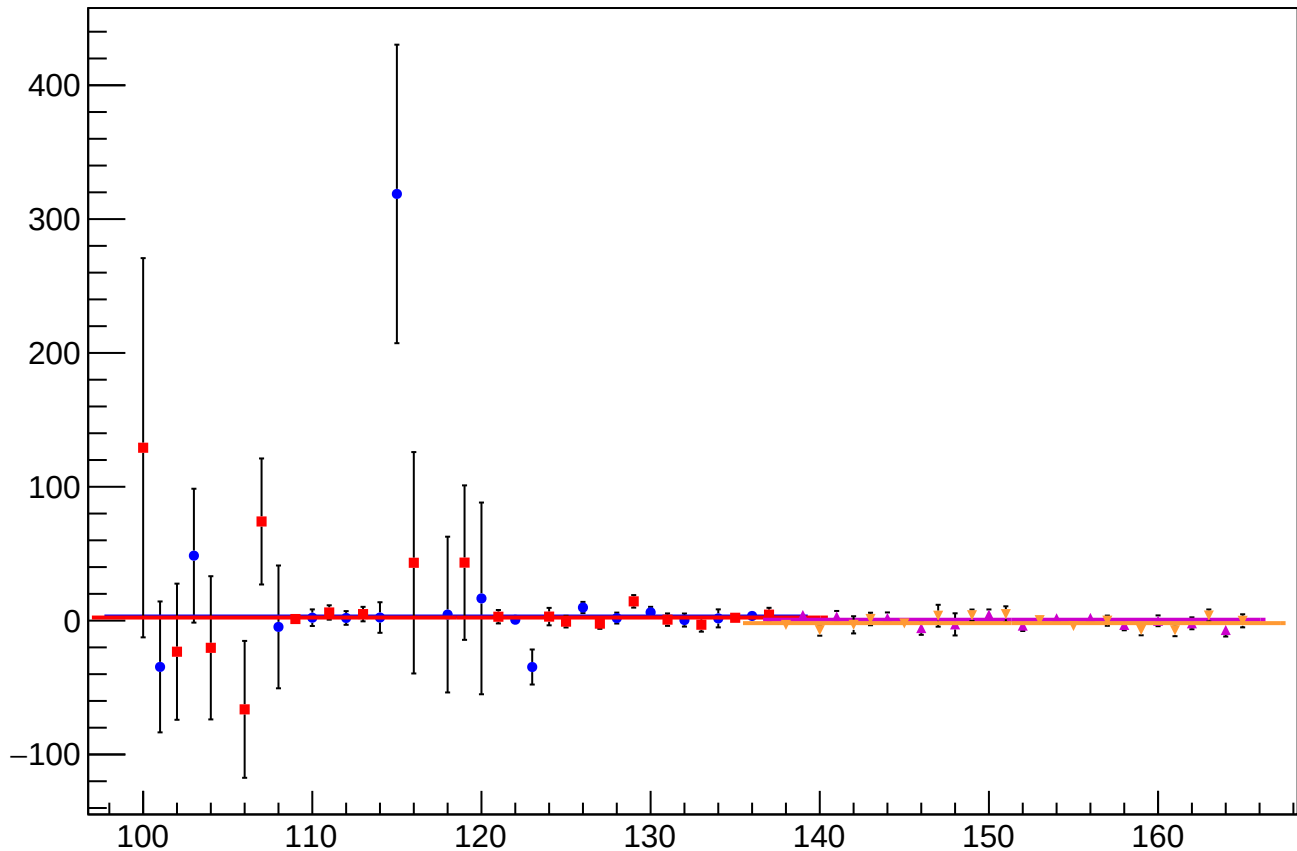
Right: 1525.146 $\pm$ 0.364 χ^2/NDF : 9654379.4/35

In: 1129.076 $\pm$ 0.212 χ^2/NDF : 5638797.5/29

Out: 1127.695 $\pm$ 0.205 χ^2/NDF : 5663018.3/33

All: 1128.362 $\pm$ 0.147 χ^2/NDF : 11301837.7/60

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.075 ± 1.323 $\chi^2/\text{NDF}: 21.9/16$

Left Out: -1.874 ± 1.038 $\chi^2/\text{NDF}: 11.9/14$

Right Out: 2.306 ± 1.235 $\chi^2/\text{NDF}: 16.9/18$

Left In: 0.663 ± 1.088 $\chi^2/\text{NDF}: 10.6/12$

Left: -0.664 ± 0.751 $\chi^2/\text{NDF}: 25.3/27$

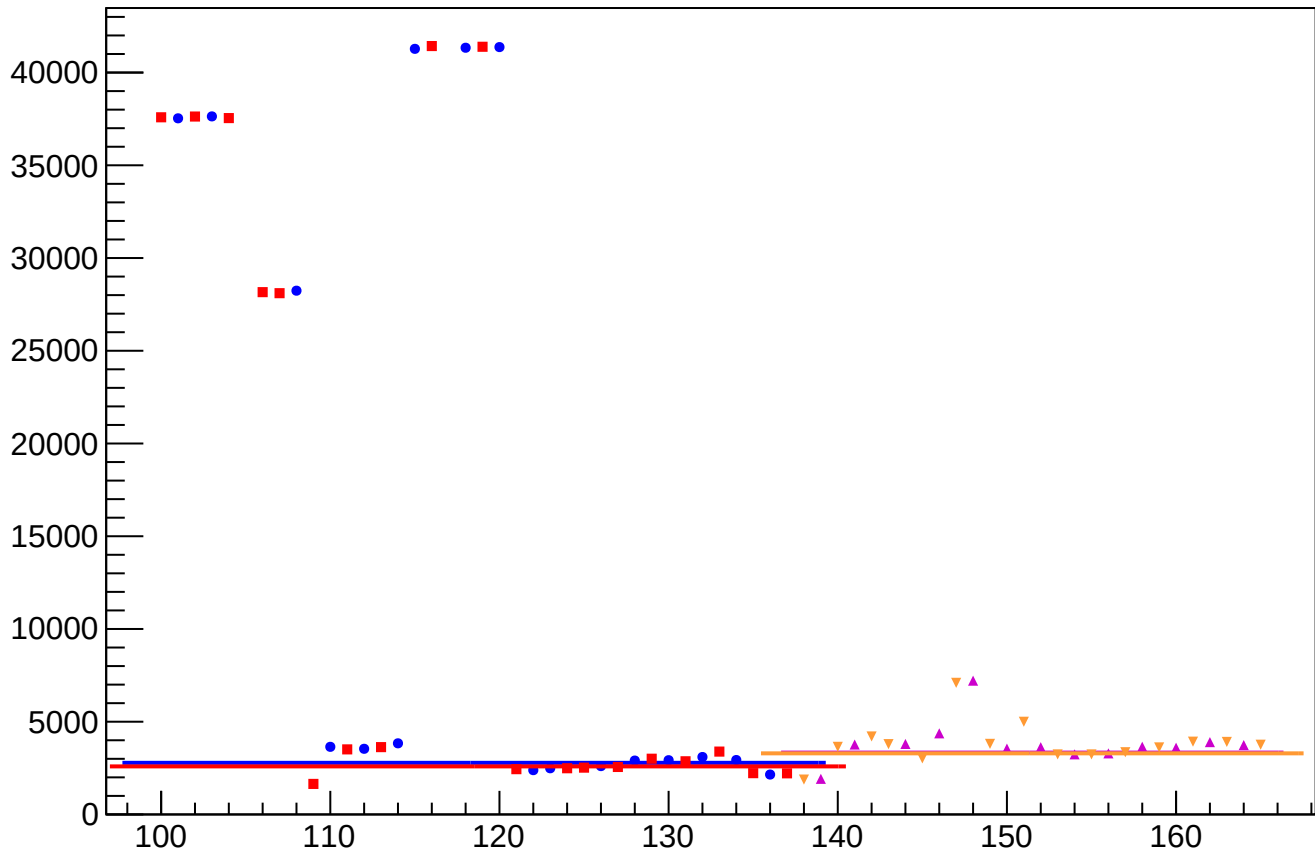
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.636 ± 0.840 $\chi^2/\text{NDF}: 34.4/29$

Out: -0.142 ± 0.795 $\chi^2/\text{NDF}: 35.6/33$

All: 0.697 ± 0.577 $\chi^2/\text{NDF}: 72.3/63$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2783.989+/-0.936 χ^2/NDF : 4577424.2/16

Left Out: 3294.490+/-0.734 χ^2/NDF : 1610604.5/14

Right Out: 2591.161+/-0.873 χ^2/NDF : 4846722.1/18

Left In: 3335.696+/-0.769 χ^2/NDF : 1370148.2/12

Left: 3314.140+/-0.531 χ^2/NDF : 2982254.4/27

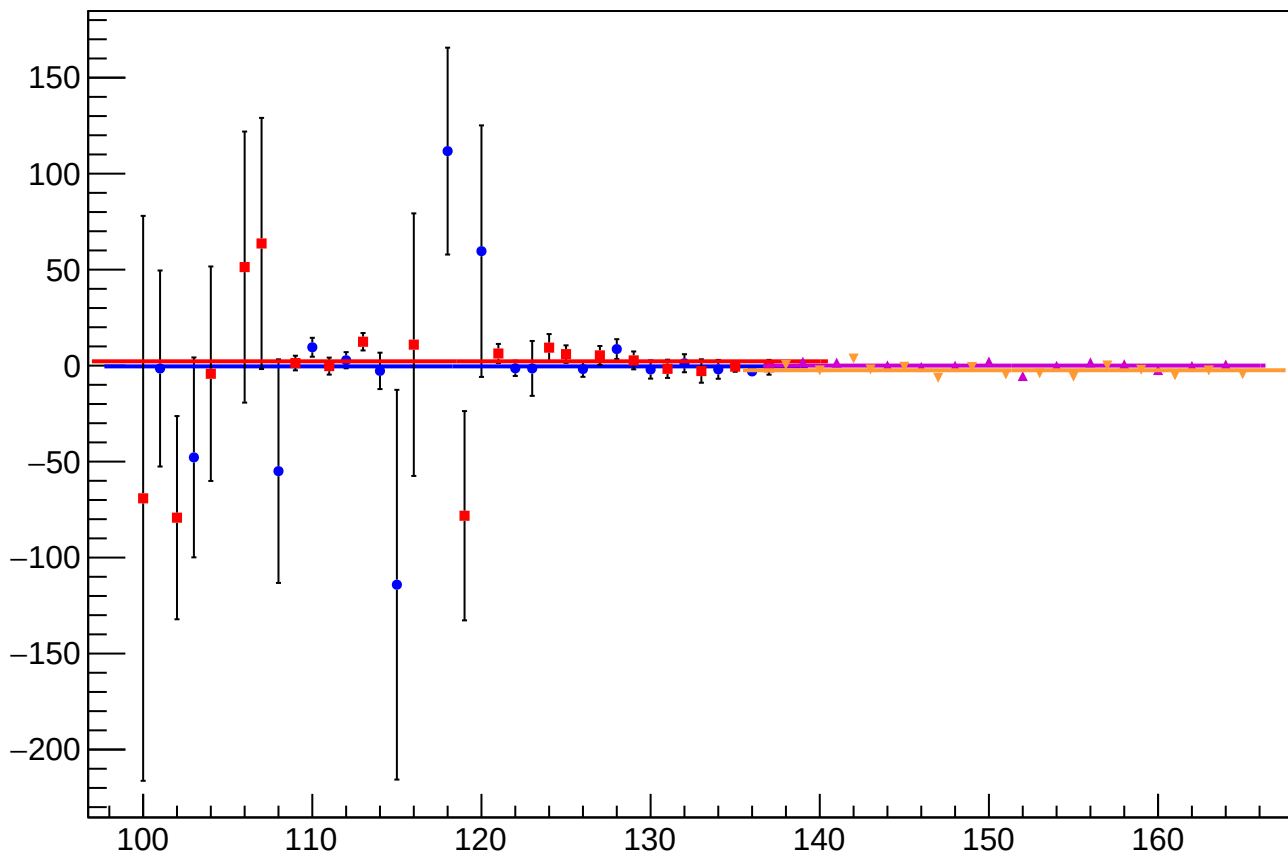
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3113.240+/-0.594 χ^2/NDF : 6155064.6/29

Out: 3003.060+/-0.562 χ^2/NDF : 6837496.2/33

All: 3055.082+/-0.408 χ^2/NDF : 13010713.3/60

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.403 ± 1.218 χ^2/NDF : 18.3/16

Left Out: -2.415 ± 0.499 χ^2/NDF : 24.1/14

Right Out: 2.245 ± 1.246 χ^2/NDF : 17.4/18

Left In: 0.012 ± 0.518 χ^2/NDF : 13.4/12

Left: -1.249 ± 0.359 χ^2/NDF : 48.9/27

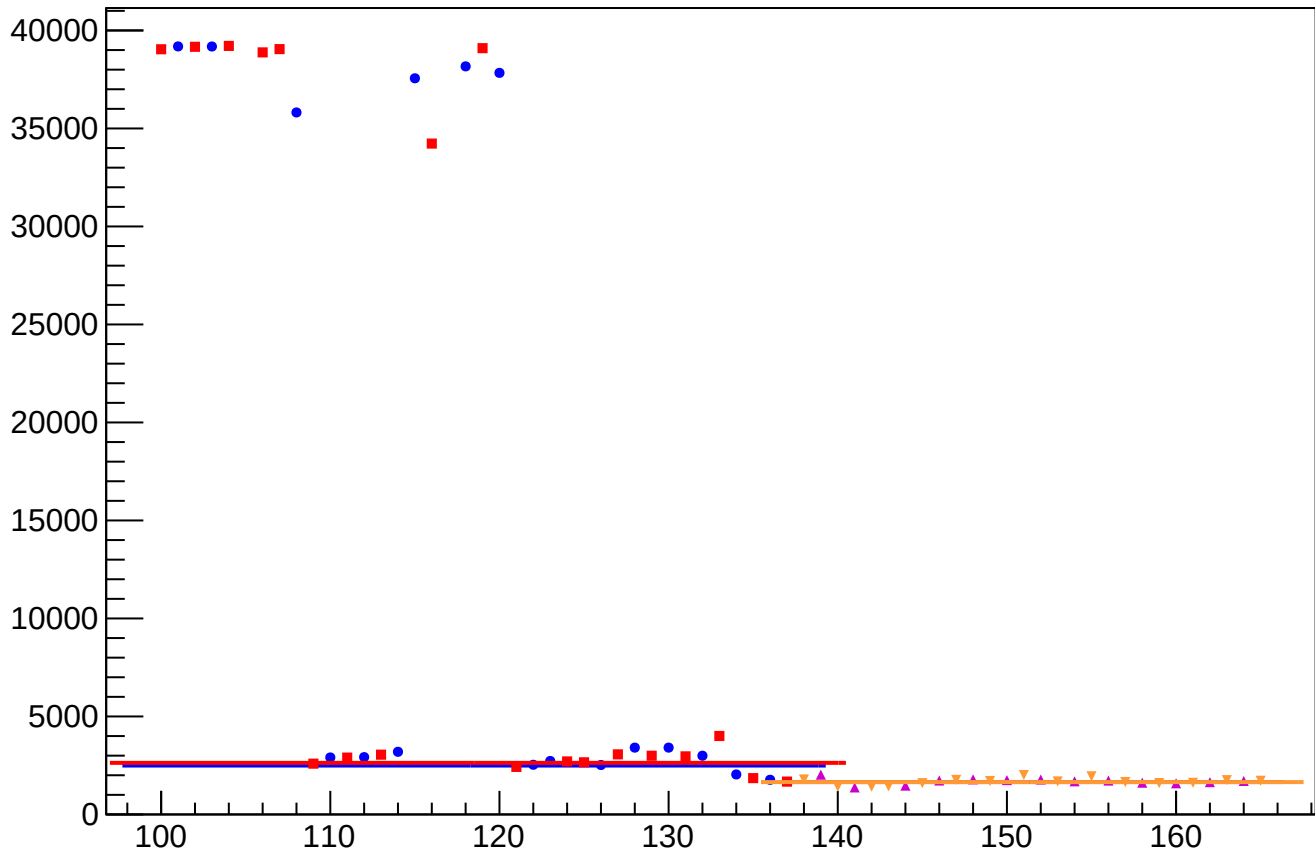
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.051 ± 0.477 χ^2/NDF : 31.8/29

Out: -1.772 ± 0.463 χ^2/NDF : 53.6/33

All: -0.937 ± 0.332 χ^2/NDF : 92.1/63

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2495.603 $\pm$ 0.861 χ^2 /NDF: 4882334.6/16

Left Out: 1651.143 $\pm$ 0.353 χ^2 /NDF: 210909.4/14

Right Out: 2633.244 $\pm$ 0.881 χ^2 /NDF: 4860512.6/18

Left In: 1653.457 $\pm$ 0.367 χ^2 /NDF: 174220.2/12

Left: 1652.255 $\pm$ 0.254 χ^2 /NDF: 385150.3/27

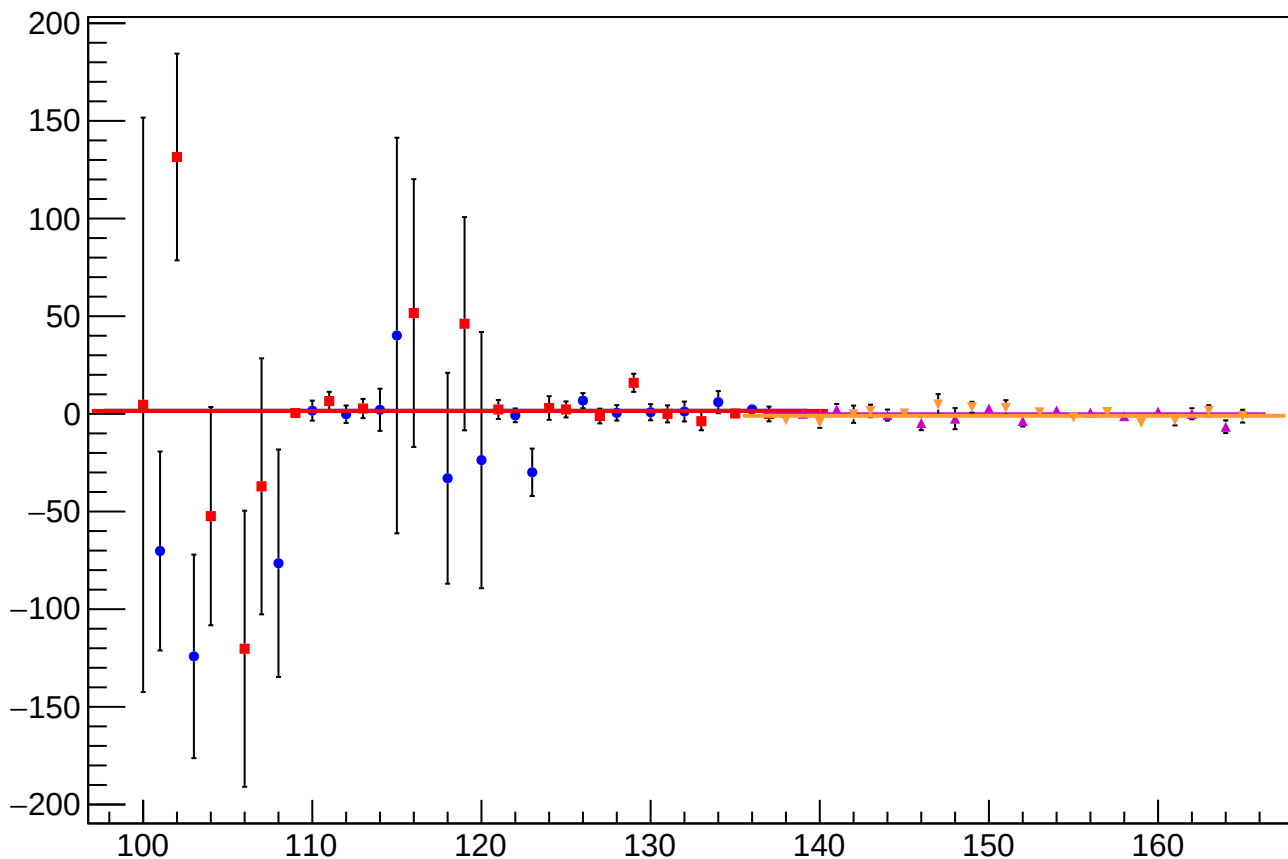
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1782.664 $\pm$ 0.337 χ^2 /NDF: 5866202.5/29

Out: 1786.774 $\pm$ 0.327 χ^2 /NDF: 6142489.4/33

All: 1784.780 $\pm$ 0.235 χ^2 /NDF: 12008768.3/66

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.576 ± 1.143 $\chi^2/\text{NDF}: 20.3/16$

Left Out: -0.977 ± 0.680 $\chi^2/\text{NDF}: 14.5/14$

Right Out: 1.524 ± 1.062 $\chi^2/\text{NDF}: 25.0/18$

Left In: -0.203 ± 0.685 $\chi^2/\text{NDF}: 10.6/12$

Left: -0.593 ± 0.483 $\chi^2/\text{NDF}: 25.8/27$

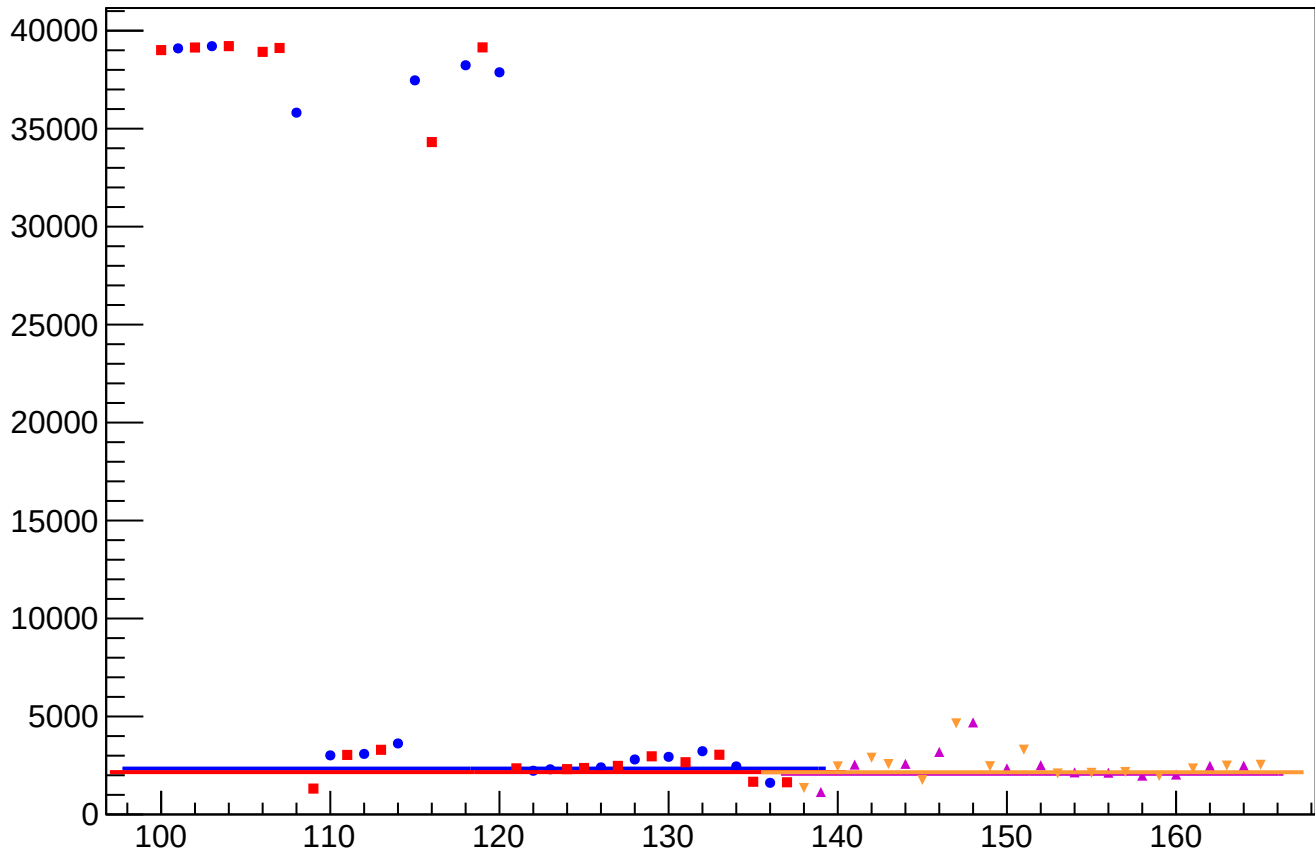
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.267 ± 0.588 $\chi^2/\text{NDF}: 32.7/29$

Out: -0.250 ± 0.573 $\chi^2/\text{NDF}: 43.5/33$

All: 0.002 ± 0.410 $\chi^2/\text{NDF}: 76.6/63$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2341.130+/-0.808 χ^2/NDF : 5006864.7/16

Left Out: 2154.439+/-0.481 χ^2/NDF :1340623.9/14

Right Out: 2161.162+/-0.751 χ^2/NDF : 5299050.1/18

Left In: 2074.327+/-0.484 χ^2/NDF :1828239.1/12

Left: 2114.670+/-0.341 χ^2/NDF : 3182640.0/27

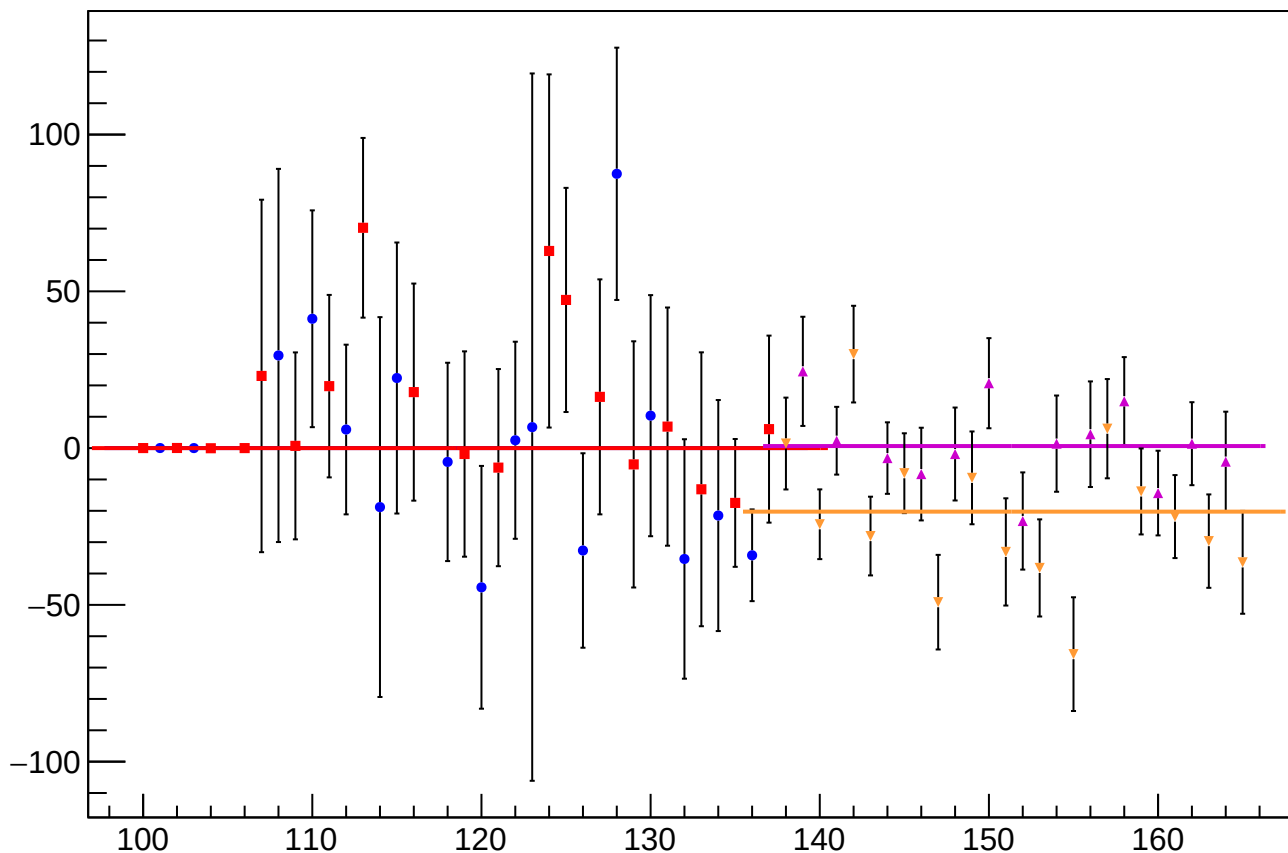
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2144.828+/-0.415 χ^2/NDF :6915287.1/29

Out: 2156.393+/-0.405 χ^2/NDF :6639730.8/33

All: 2150.758+/-0.290 χ^2/NDF : 13555415.2/66

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 16.2/16$

Left Out: -20.262 ± 3.719 $\chi^2/\text{NDF}: 31.0/14$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 15.9/18$

Left In: 0.654 ± 3.903 $\chi^2/\text{NDF}: 9.1/12$

Left: -10.309 ± 2.693 $\chi^2/\text{NDF}: 55.2/27$

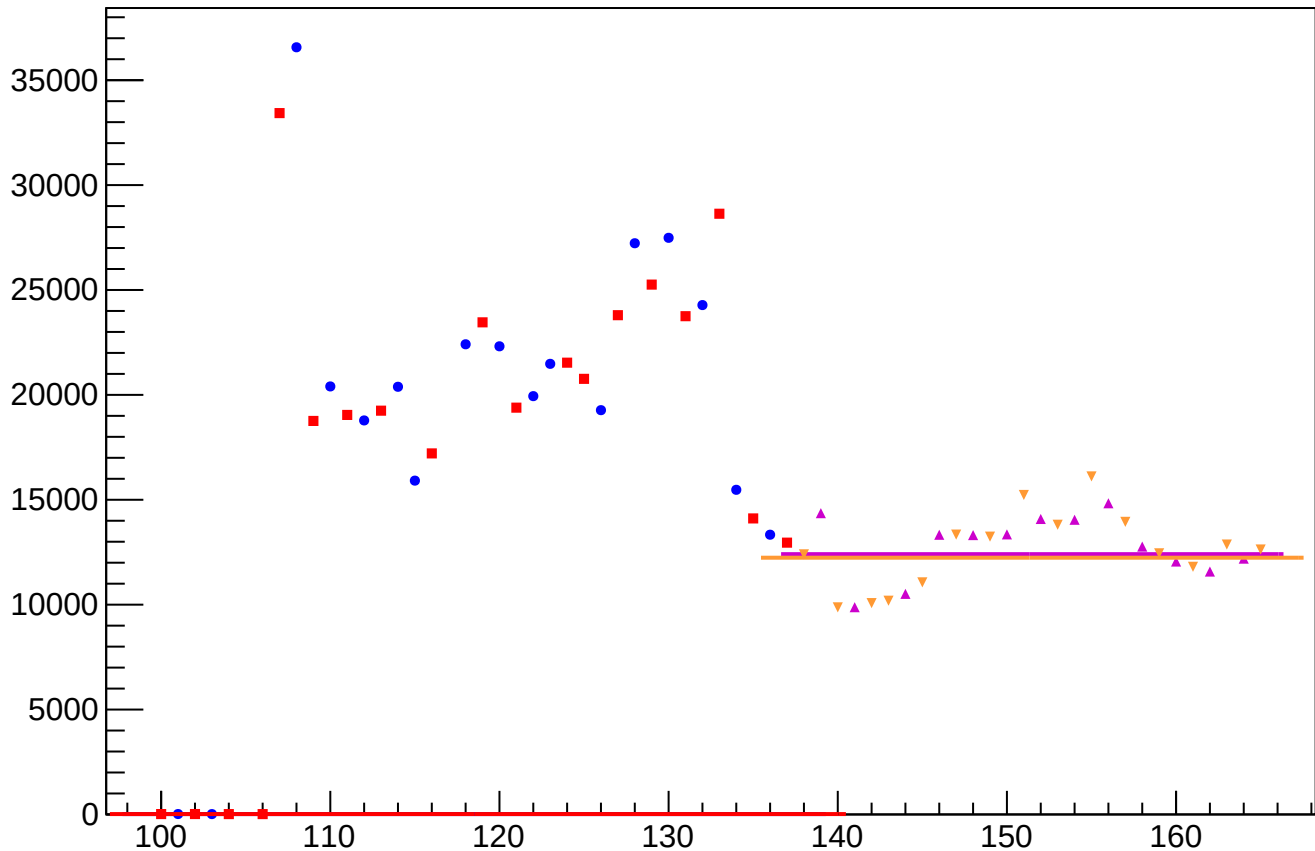
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.5/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 25.3/29$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 76.6/33$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 102.4/63$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.642 $\pm$ 0.012 χ^2 /NDF: 10984160.5/16

Left Out: 12238.309 $\pm$ 2.630 χ^2 /NDF: 424055.0/14

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11110665.6/18

Left In: 12407.699 $\pm$ 2.760 χ^2 /NDF: 312276.8/12

Left: 12318.915 $\pm$ 1.904 χ^2 /NDF: 738306.0/27

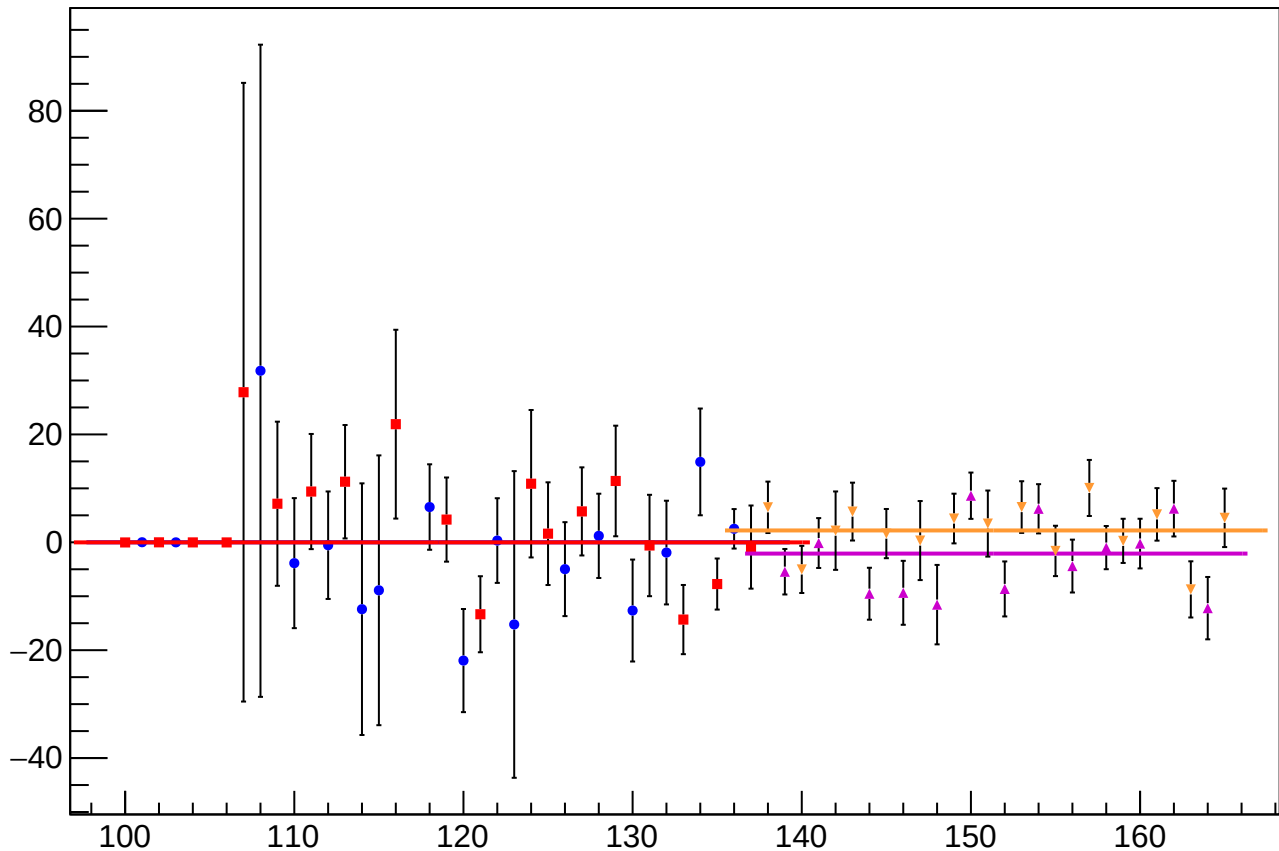
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.886 $\pm$ 0.012 χ^2 /NDF: 31444816.5/29

Out: 18.540 $\pm$ 0.011 χ^2 /NDF: 33125854.1/33

All: 18.700 $\pm$ 0.008 χ^2 /NDF: 64571100.1/63

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.009 χ^2/NDF : 13.0/16

Left Out: 2.198+/-1.302 χ^2/NDF :13.3/14

Right Out: -0.014+/-0.009 χ^2/NDF : 18.6/18

Left In: -2.093+/-1.345 χ^2/NDF :23.7/12

Left: 0.123+/-0.936 χ^2/NDF : 42.2/27

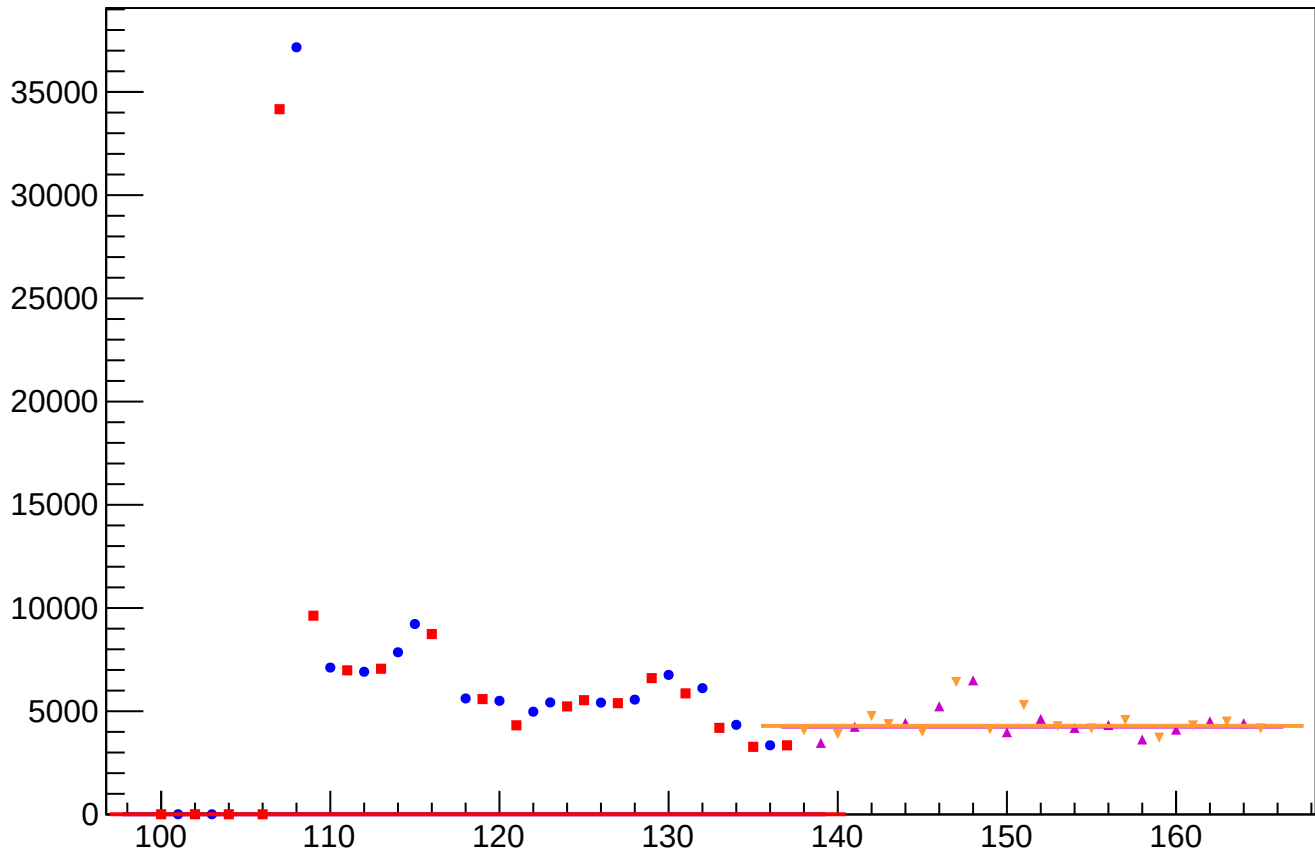
Right: -0.007+/-0.006 χ^2/NDF : 33.0/35

In: 0.001+/-0.009 χ^2/NDF :39.2/29

Out: -0.014+/-0.009 χ^2/NDF :34.7/33

All: -0.007+/-0.006 χ^2/NDF : 75.3/63

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 11114526.8/16

Left Out: 4290.502 $\pm$ 0.921 χ^2 /NDF:313973.8/14

Right Out: 9.854 $\pm$ 0.006 χ^2 /NDF: 11159992.3/18

Left In: 4257.576 $\pm$ 0.951 χ^2 /NDF:389857.7/12

Left: 4274.576 $\pm$ 0.662 χ^2 /NDF: 704450.0/27

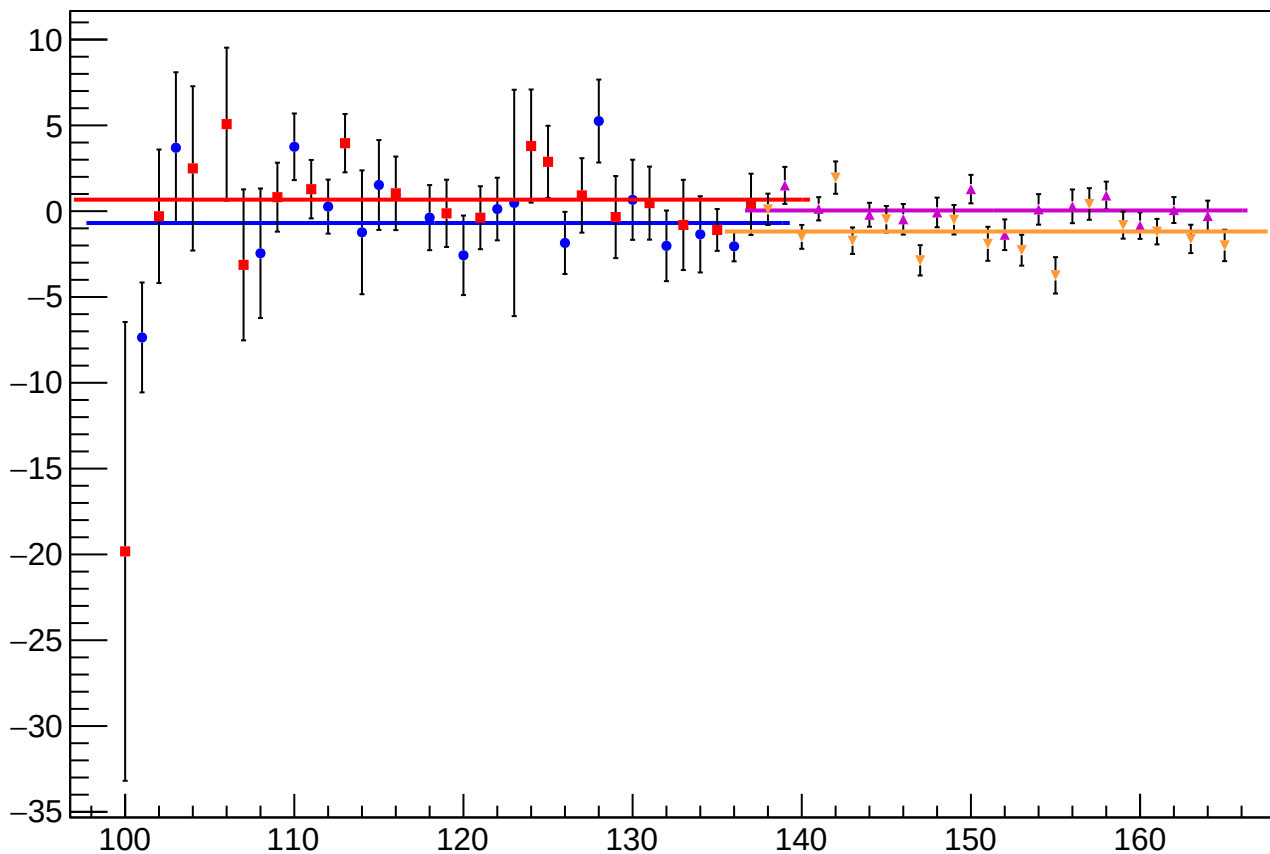
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22274609.0/35

In: 10.138 $\pm$ 0.007 χ^2 /NDF:31440315.3/29

Out: 10.043 $\pm$ 0.006 χ^2 /NDF:33087002.8/33

All: 10.088 $\pm$ 0.004 χ^2 /NDF: 64527430.0/63

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.482 χ^2/NDF : 22.5/16

Left Out: -1.183 ± 0.219 χ^2/NDF : 31.0/14

Right Out: 0.672 ± 0.501 χ^2/NDF : 13.3/18

Left In: 0.042 ± 0.230 χ^2/NDF : 9.8/12

Left: -0.599 ± 0.159 χ^2/NDF : 55.6/27

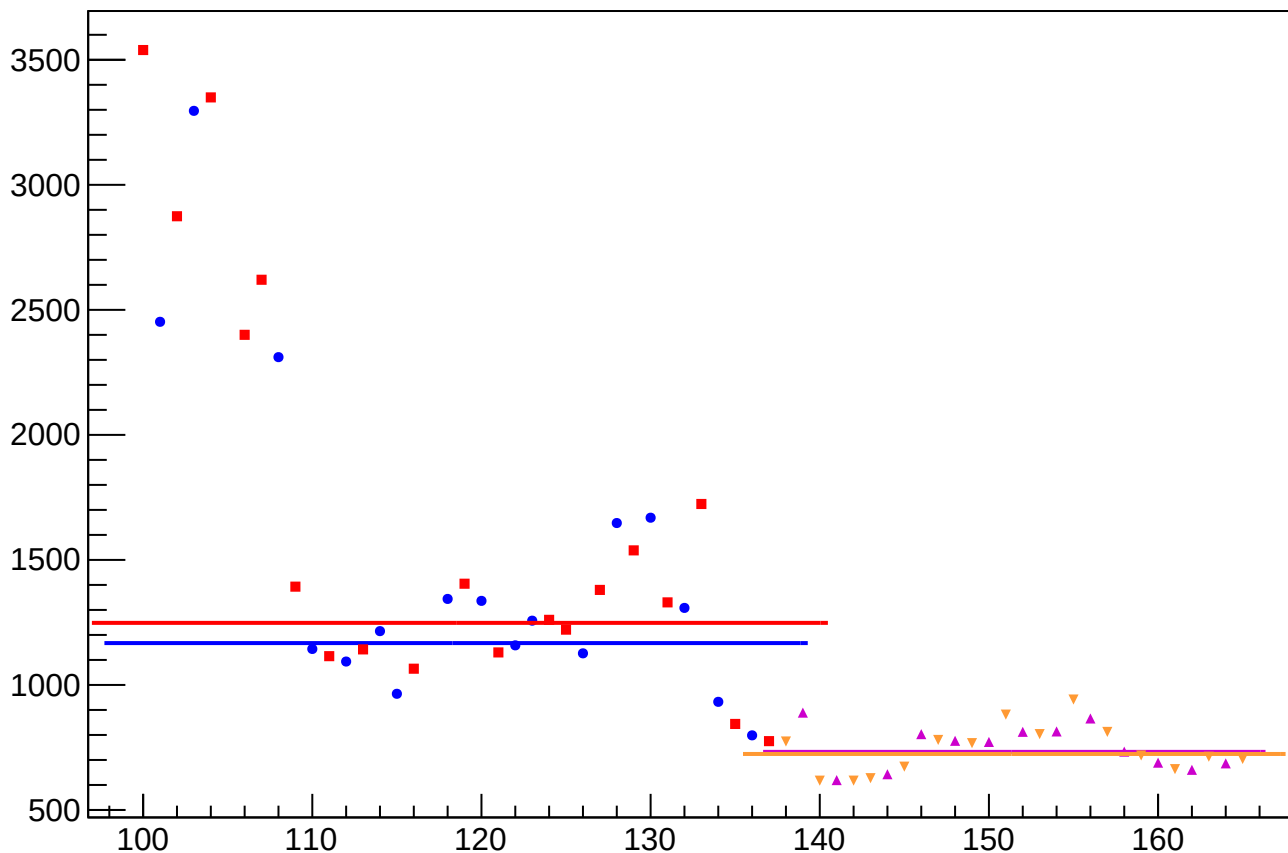
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: -0.093 ± 0.208 χ^2/NDF : 34.1/29

Out: -0.884 ± 0.201 χ^2/NDF : 55.8/33

All: -0.502 ± 0.144 χ^2/NDF : 97.5/63

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.397 $\pm$ 0.341 χ^2/NDF : 1578328.1/16

Left Out: 723.970 $\pm$ 0.155 χ^2/NDF : 315484.4/14

Right Out: 1248.241 $\pm$ 0.354 χ^2/NDF : 1654028.9/18

Left In: 732.326 $\pm$ 0.163 χ^2/NDF : 252908.0/12

Left: 727.952 $\pm$ 0.112 χ^2/NDF : 569775.0/27

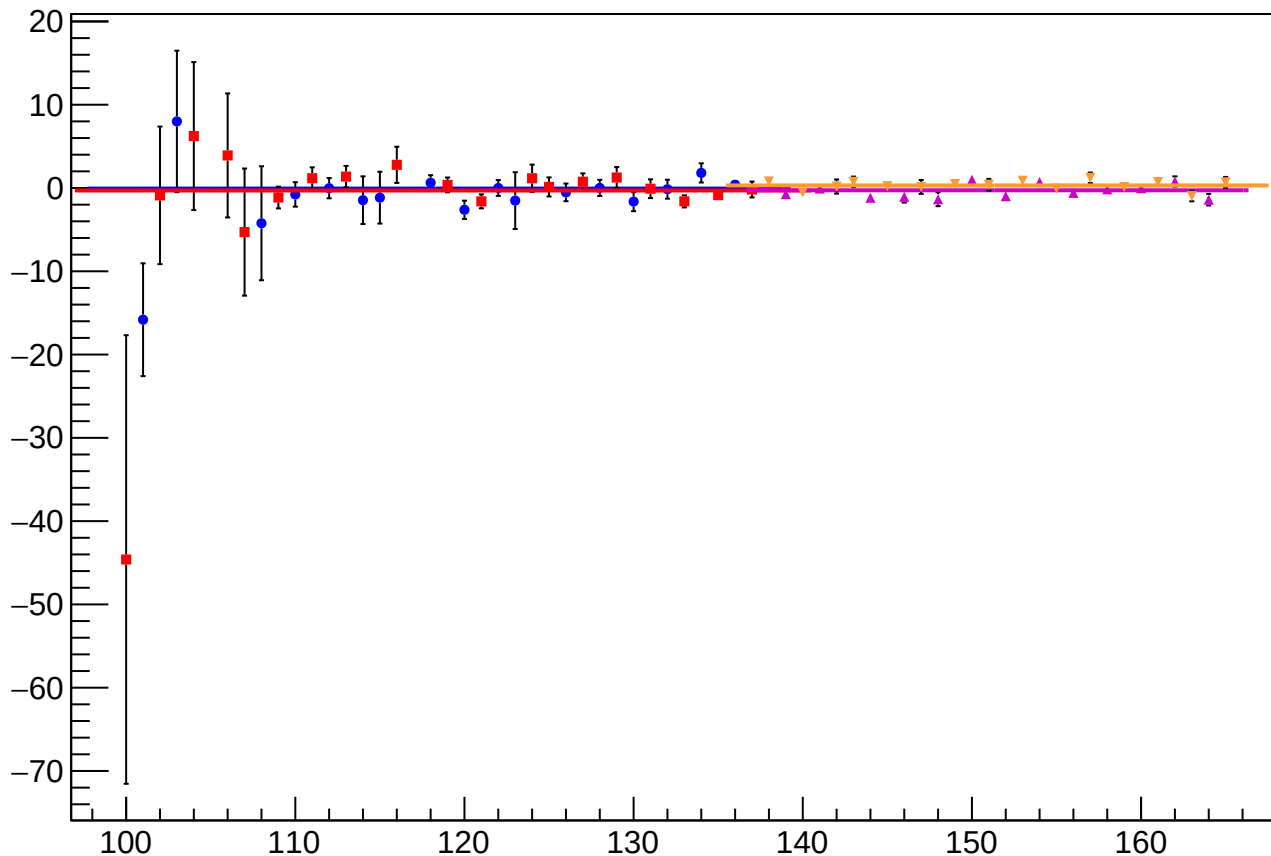
Right: 1206.306 $\pm$ 0.246 χ^2/NDF : 3259405.5/35

In: 812.921 $\pm$ 0.147 χ^2/NDF : 3157383.6/29

Out: 808.405 $\pm$ 0.142 χ^2/NDF : 3809264.7/33

All: 810.589 $\pm$ 0.102 χ^2/NDF : 6967137.0/63

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.072 ± 0.269 χ^2/NDF : 19.2/16

Left Out: 0.310 ± 0.156 χ^2/NDF : 12.6/14

Right Out: -0.294 ± 0.264 χ^2/NDF : 20.2/18

Left In: -0.274 ± 0.162 χ^2/NDF : 23.1/12

Left: 0.029 ± 0.112 χ^2/NDF : 42.5/27

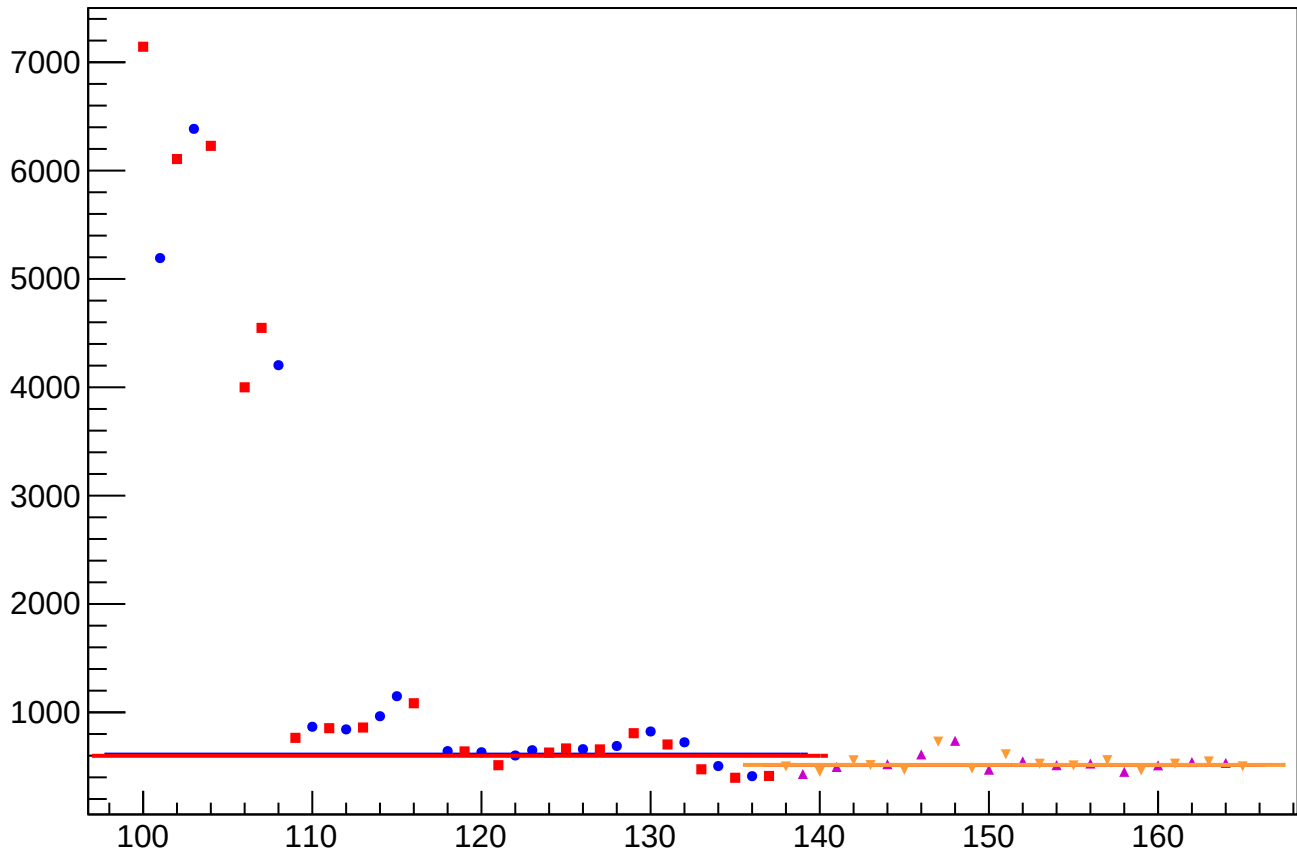
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.220 ± 0.139 χ^2/NDF : 42.8/29

Out: 0.153 ± 0.134 χ^2/NDF : 36.7/33

All: -0.027 ± 0.096 χ^2/NDF : 83.3/63

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.780 $\pm$ 0.190 χ^2 /NDF: 3135978.5/16

Left Out: 514.872 $\pm$ 0.110 χ^2 /NDF: 268950.2/14

Right Out: 599.018 $\pm$ 0.187 χ^2 /NDF: 3552387.3/18

Left In: 513.875 $\pm$ 0.115 χ^2 /NDF: 295510.1/12

Left: 514.392 $\pm$ 0.079 χ^2 /NDF: 564499.7/27

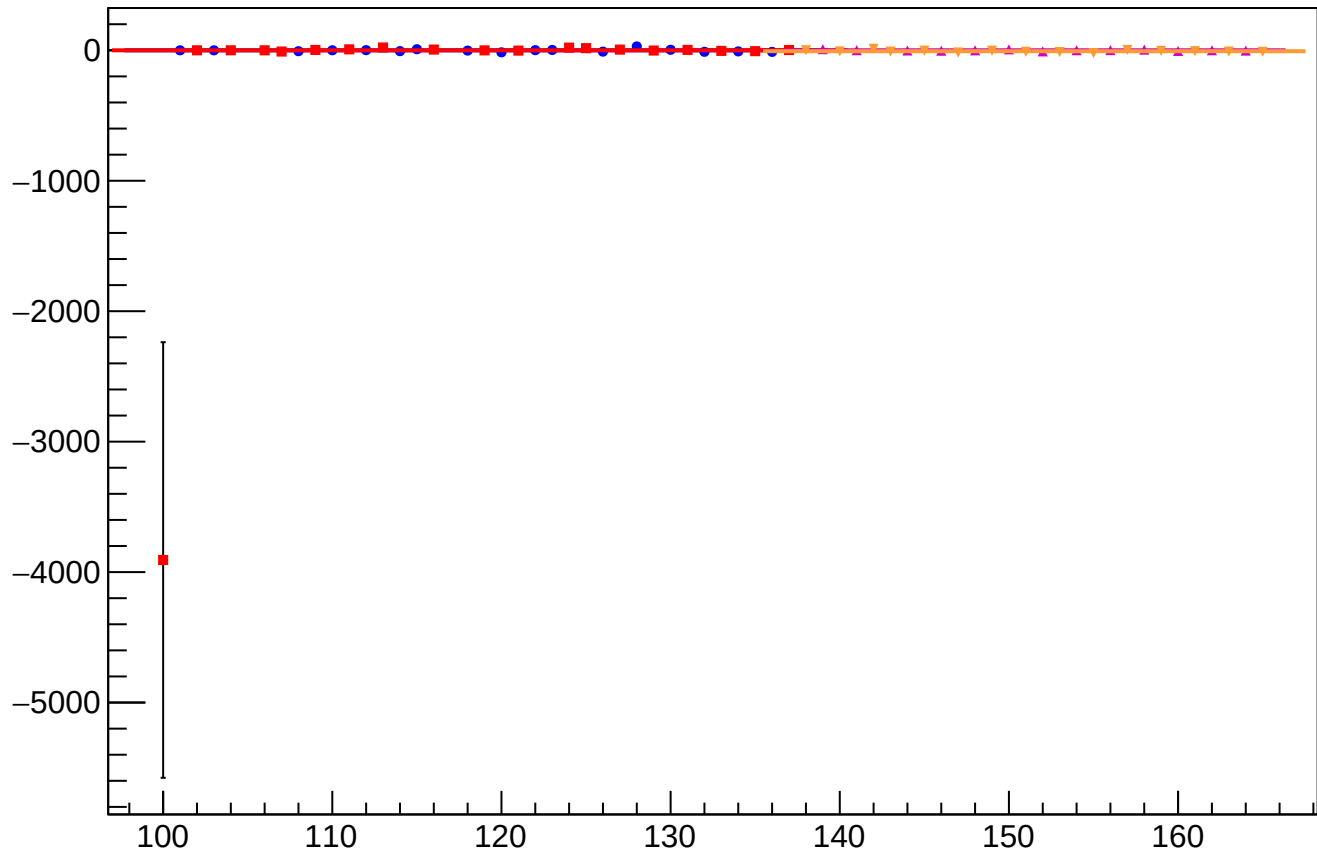
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 539.442 $\pm$ 0.098 χ^2 /NDF: 3618517.6/29

Out: 536.660 $\pm$ 0.095 χ^2 /NDF: 3972012.3/33

All: 538.006 $\pm$ 0.068 χ^2 /NDF: 7590945.5/63

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 15.6/16

Left Out: -6.831 ± 1.278 χ^2/NDF : 31.1/14

Right Out: 0.027 ± 0.020 χ^2/NDF : 17.9/18

Left In: 0.198 ± 1.343 χ^2/NDF : 9.7/12

Left: -3.490 ± 0.926 χ^2/NDF : 55.2/27

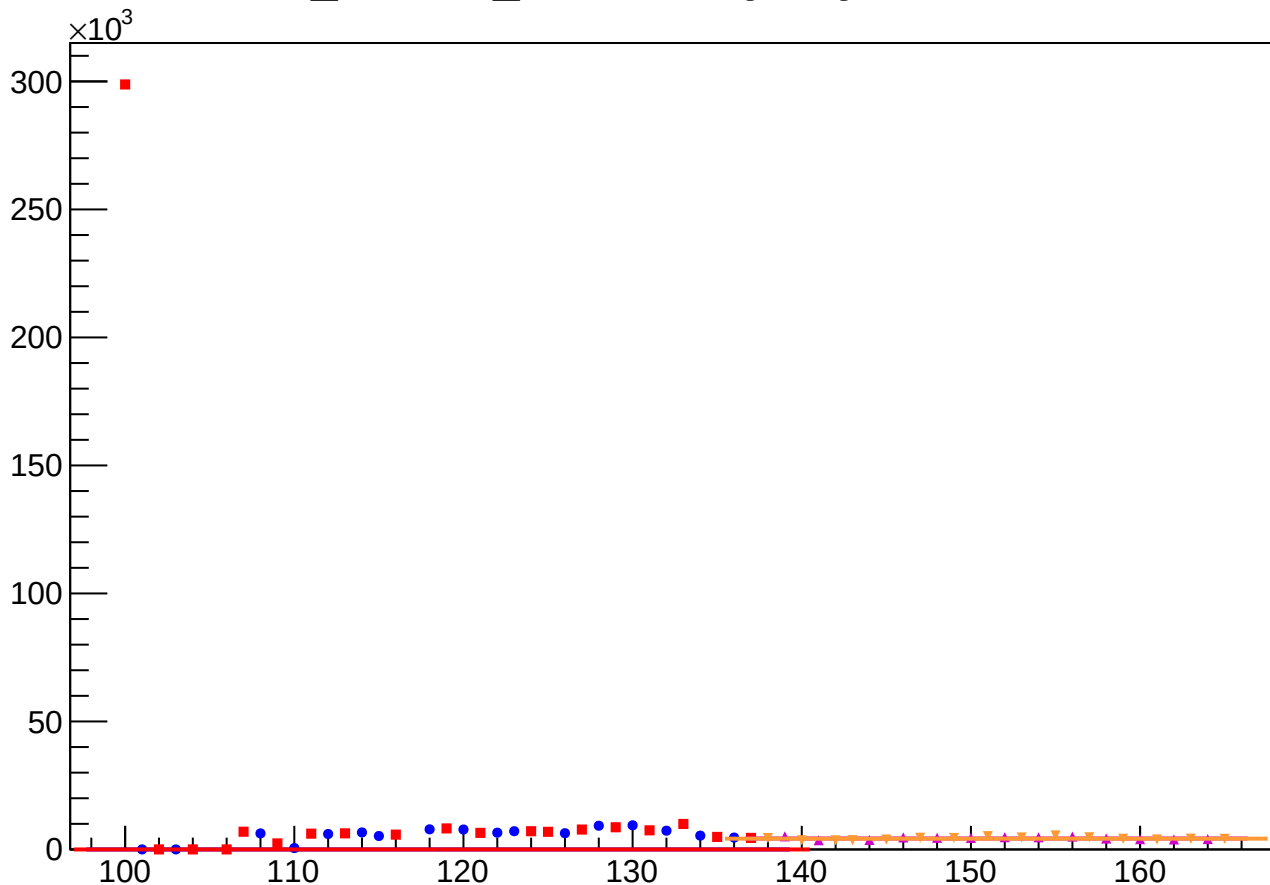
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.022 ± 0.021 χ^2/NDF : 25.4/29

Out: 0.025 ± 0.020 χ^2/NDF : 77.8/33

All: 0.003 ± 0.014 χ^2/NDF : 105.8/63

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341+/-0.015 χ^2/NDF : 10501445.0/16

Left Out: 4217.102+/-0.904 χ^2/NDF : 333816.5/14

Right Out: 17.269+/-0.014 χ^2/NDF : 10820611.7/18

Left In: 4276.556+/-0.950 χ^2/NDF : 256885.7/12

Left: 4245.365+/-0.655 χ^2/NDF : 592758.4/27

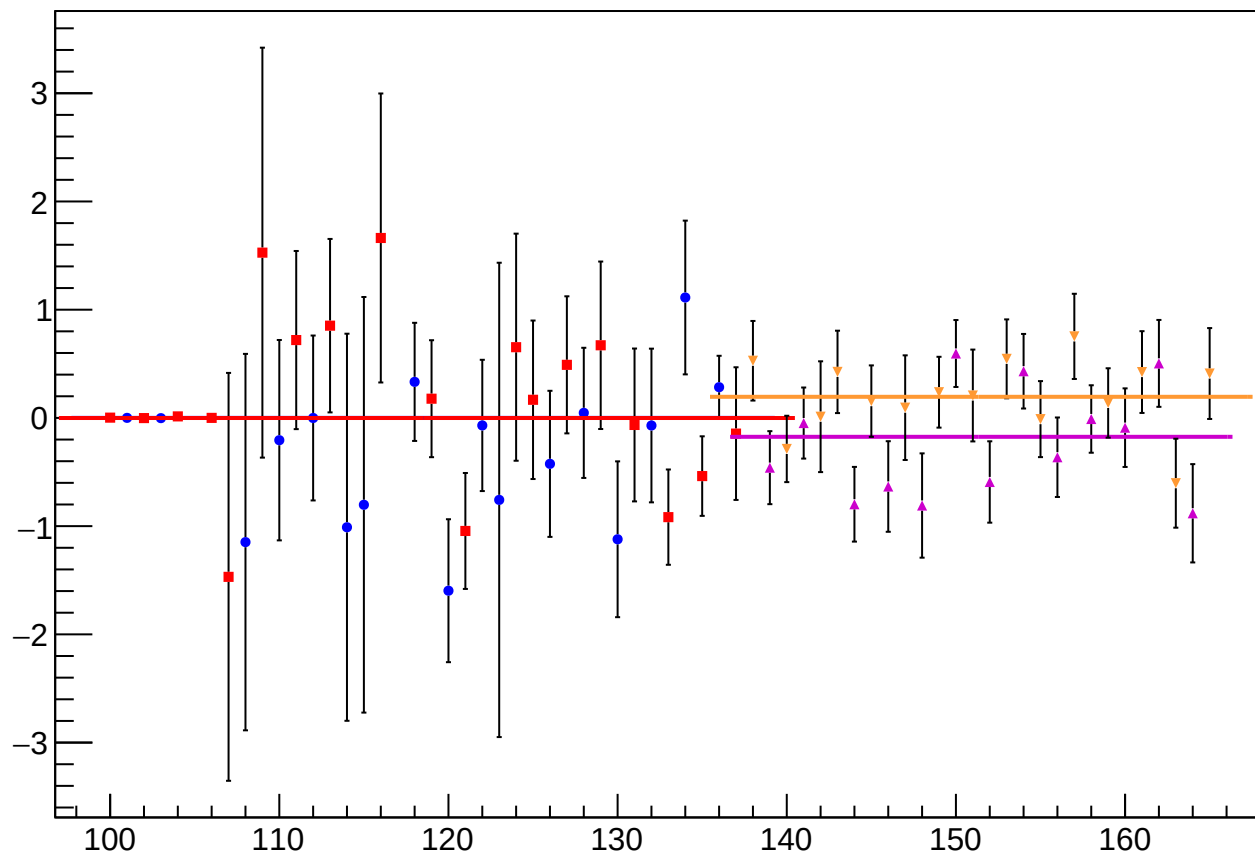
Right: 17.303+/-0.010 χ^2/NDF : 21322069.2/35

In: 18.361+/-0.015 χ^2/NDF : 30868163.5/29

Out: 18.273+/-0.014 χ^2/NDF : 32733547.5/33

All: 18.315+/-0.010 χ^2/NDF : 63601729.7/63

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 13.8/16$

Left Out: 0.195 ± 0.096 $\chi^2/\text{NDF}: 11.6/14$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 17.9/18$

Left In: -0.175 ± 0.101 $\chi^2/\text{NDF}: 23.5/12$

Left: 0.018 ± 0.070 $\chi^2/\text{NDF}: 42.1/27$

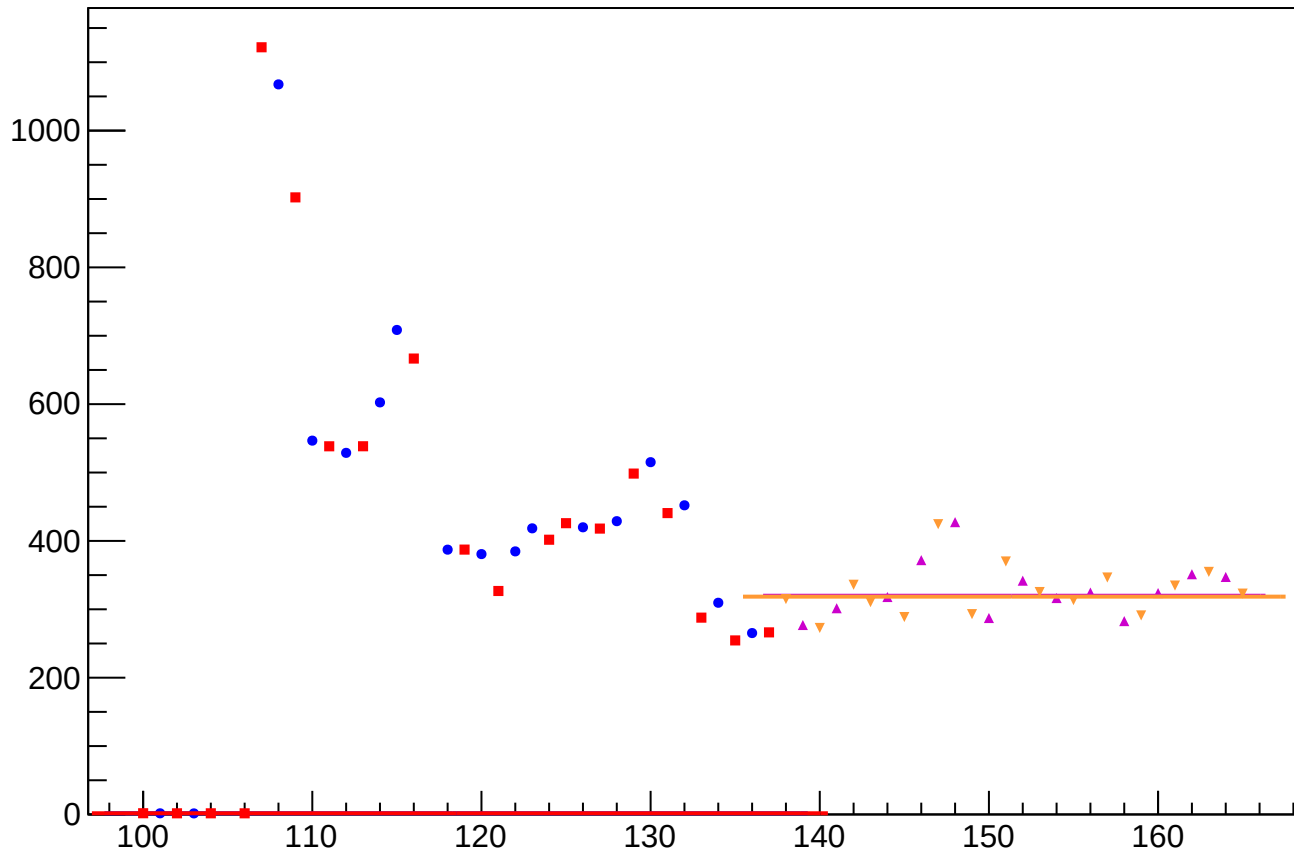
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 31.8/35$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 40.2/29$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 33.6/33$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 74.0/63$

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699+/-0.001 χ^2/NDF : 11053026.2/16

Left Out: 318.513+/-0.068 χ^2/NDF : 247282.6/14

Right Out: 1.728+/-0.001 χ^2/NDF : 10743910.0/18

Left In: 319.819+/-0.071 χ^2/NDF : 246839.5/12

Left: 319.139+/-0.049 χ^2/NDF : 494297.7/27

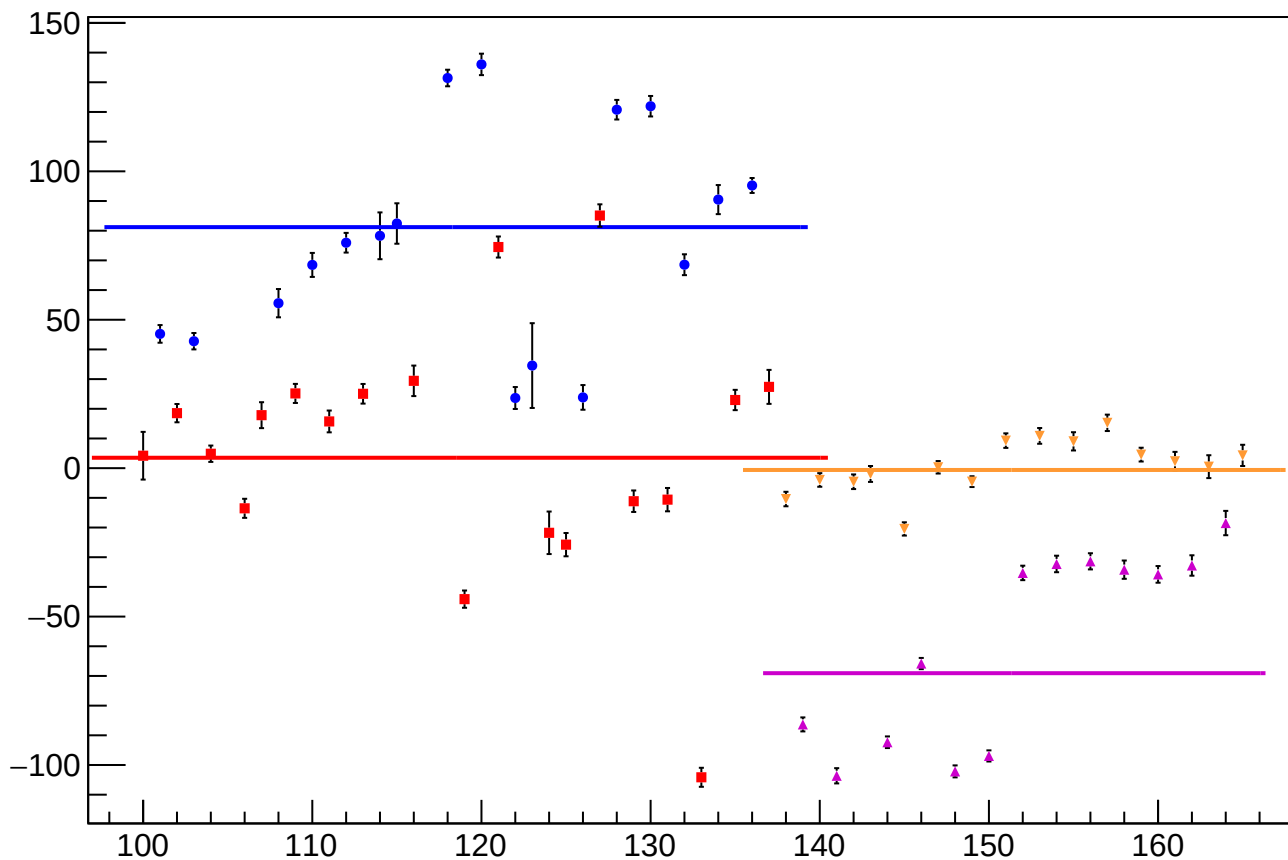
Right: 1.714+/-0.001 χ^2/NDF : 21797153.2/35

In: 1.828+/-0.001 χ^2/NDF : 31282310.6/29

Out: 1.856+/-0.001 χ^2/NDF : 32559839.4/33

All: 1.843+/-0.001 χ^2/NDF : 63842355.0/63

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.201+/-0.886 χ^2/NDF : 1709.8/16

Left Out: -0.608+/-0.650 χ^2/NDF : 190.6/14

Right Out: 3.508+/-0.843 χ^2/NDF : 2599.0/18

Left In: -69.070+/-0.673 χ^2/NDF : 1957.8/12

Left: -33.671+/-0.467 χ^2/NDF : 7504.7/27

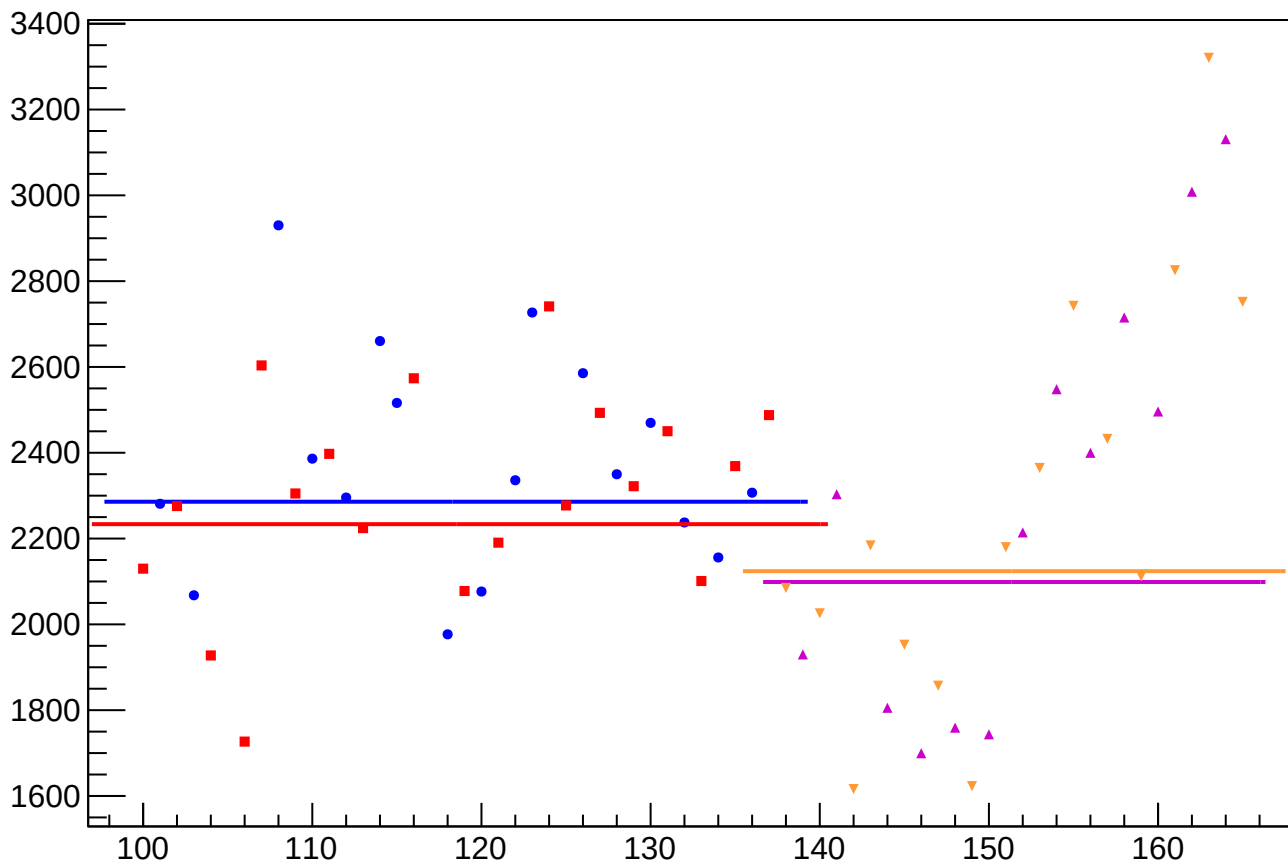
Right: 40.415+/-0.610 χ^2/NDF : 8348.3/35

In: -14.102+/-0.536 χ^2/NDF : 21924.0/29

Out: 0.928+/-0.515 χ^2/NDF : 2804.6/33

All: -6.286+/-0.371 χ^2/NDF : 25137.9/63

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.855 $\pm$ 0.626 χ^2 /NDF: 109336.5/16

Left Out: 2123.957 $\pm$ 0.460 χ^2 /NDF: 761897.4/14

Right Out: 2233.547 $\pm$ 0.596 χ^2 /NDF: 146848.5/18

Left In: 2098.757 $\pm$ 0.476 χ^2 /NDF: 753558.9/12

Left: 2111.787 $\pm$ 0.331 χ^2 /NDF: 1516907.8/27

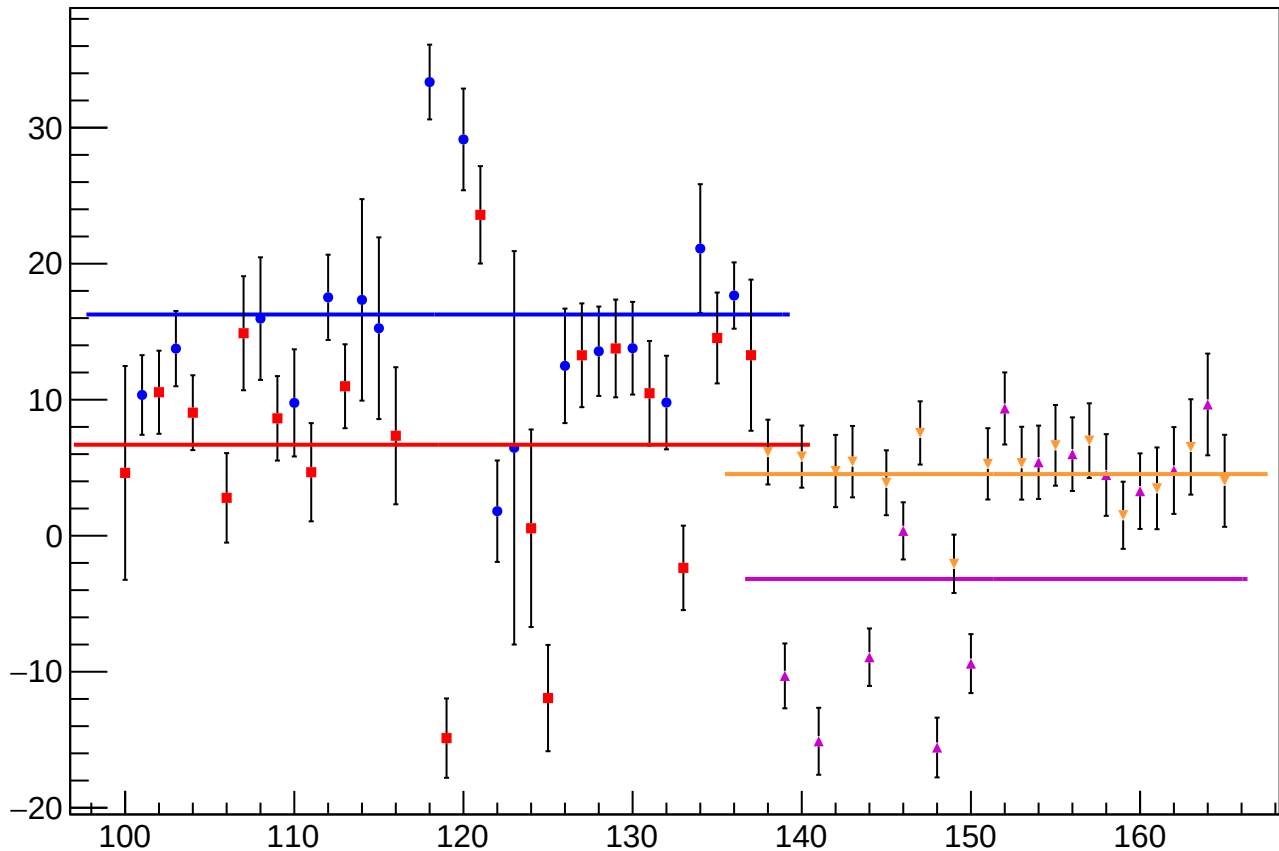
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2167.197 $\pm$ 0.379 χ^2 /NDF: 919497.8/29

Out: 2164.854 $\pm$ 0.364 χ^2 /NDF: 929956.7/33

All: 2165.978 $\pm$ 0.262 χ^2 /NDF: 1849474.4/63

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 $\pm$ 0.872 χ^2 /NDF: 80.8/16

Left Out: 4.533 $\pm$ 0.673 χ^2 /NDF:15.6/14

Right Out: 6.690 $\pm$ 0.831 χ^2 /NDF: 134.0/18

Left In: -3.179 $\pm$ 0.700 χ^2 /NDF:156.6/12

Left: 0.831 $\pm$ 0.485 χ^2 /NDF: 235.3/27

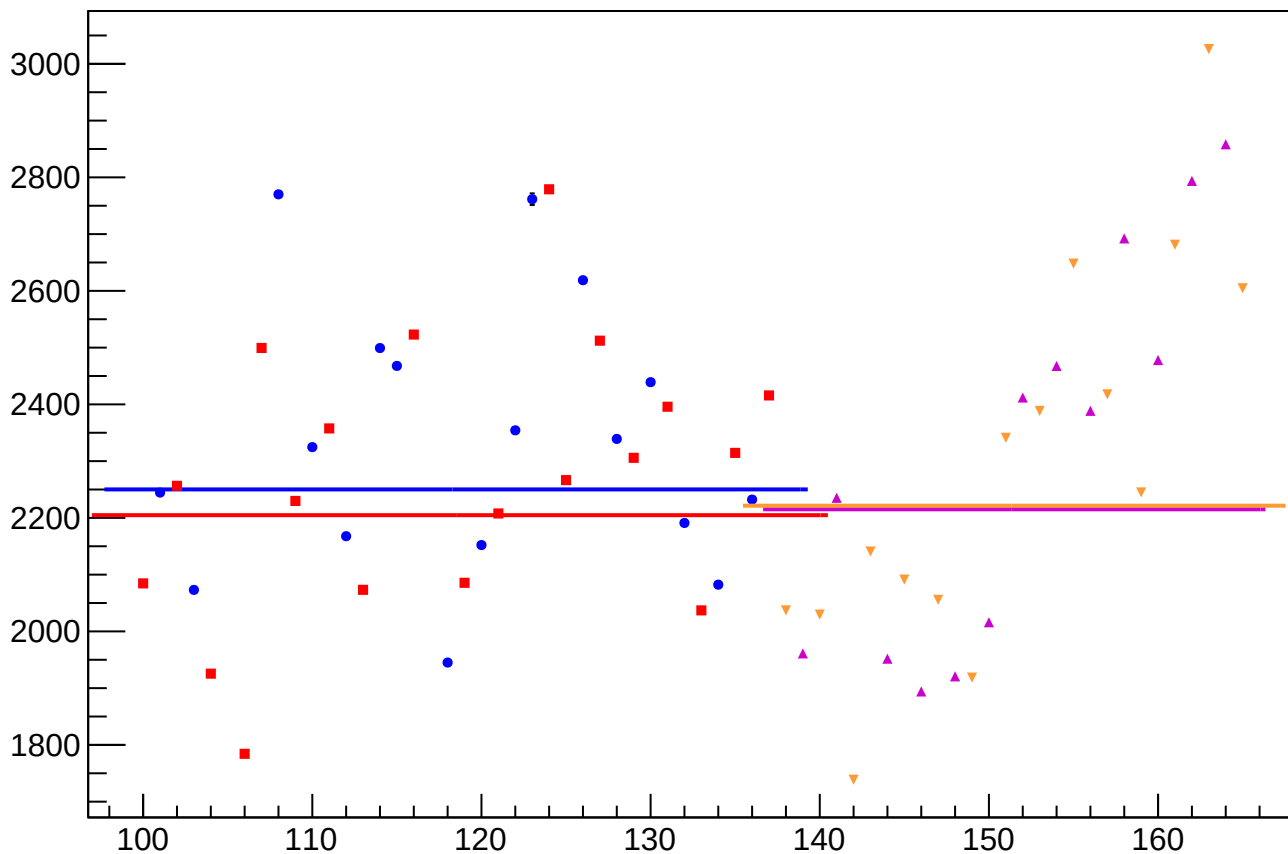
Right: 11.249 $\pm$ 0.601 χ^2 /NDF: 278.0/35

In: 4.452 $\pm$ 0.546 χ^2 /NDF:539.9/29

Out: 5.388 $\pm$ 0.523 χ^2 /NDF:153.6/33

All: 4.940 $\pm$ 0.378 χ^2 /NDF: 695.0/63

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2250.175 ± 0.616 $\chi^2/\text{NDF}: 97578.1/16$

Left Out: 2221.480 ± 0.476 $\chi^2/\text{NDF}: 391650.1/14$

Right Out: 2204.789 ± 0.587 $\chi^2/\text{NDF}: 126227.4/18$

Left In: 2215.135 ± 0.495 $\chi^2/\text{NDF}: 383519.9/12$

Left: 2218.434 ± 0.343 $\chi^2/\text{NDF}: 775255.4/27$

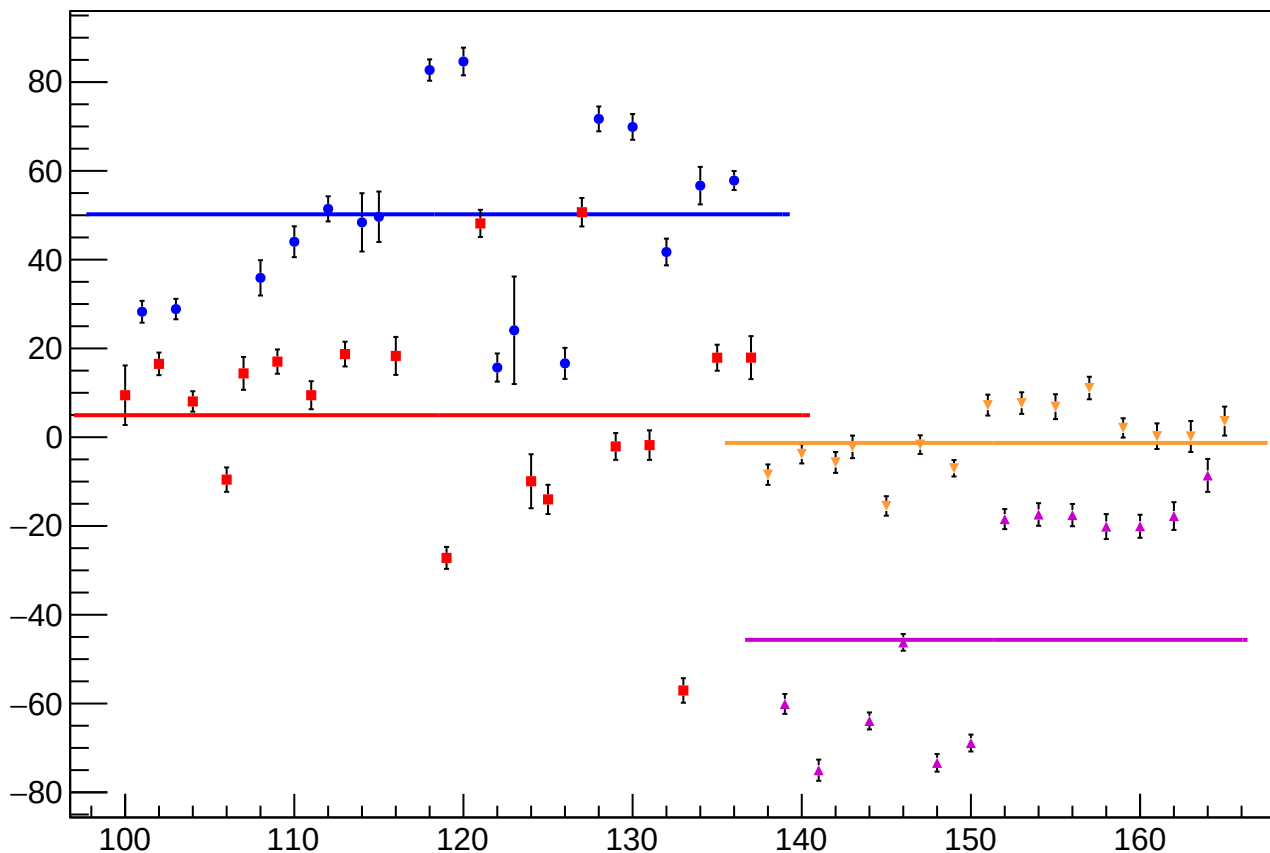
Right: 2226.396 ± 0.425 $\chi^2/\text{NDF}: 226647.4/35$

In: 2228.887 ± 0.386 $\chi^2/\text{NDF}: 483062.2/29$

Out: 2214.867 ± 0.370 $\chi^2/\text{NDF}: 518365.0/33$

All: 2221.575 ± 0.267 $\chi^2/\text{NDF}: 1002115.1/63$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.215 ± 0.751 $\chi^2/\text{NDF}: 830.3/16$

Left Out: -1.289 ± 0.620 $\chi^2/\text{NDF}: 130.0/14$

Right Out: 4.958 ± 0.713 $\chi^2/\text{NDF}: 1262.6/18$

Left In: -45.649 ± 0.643 $\chi^2/\text{NDF}: 1380.2/12$

Left: -22.672 ± 0.446 $\chi^2/\text{NDF}: 3976.4/27$

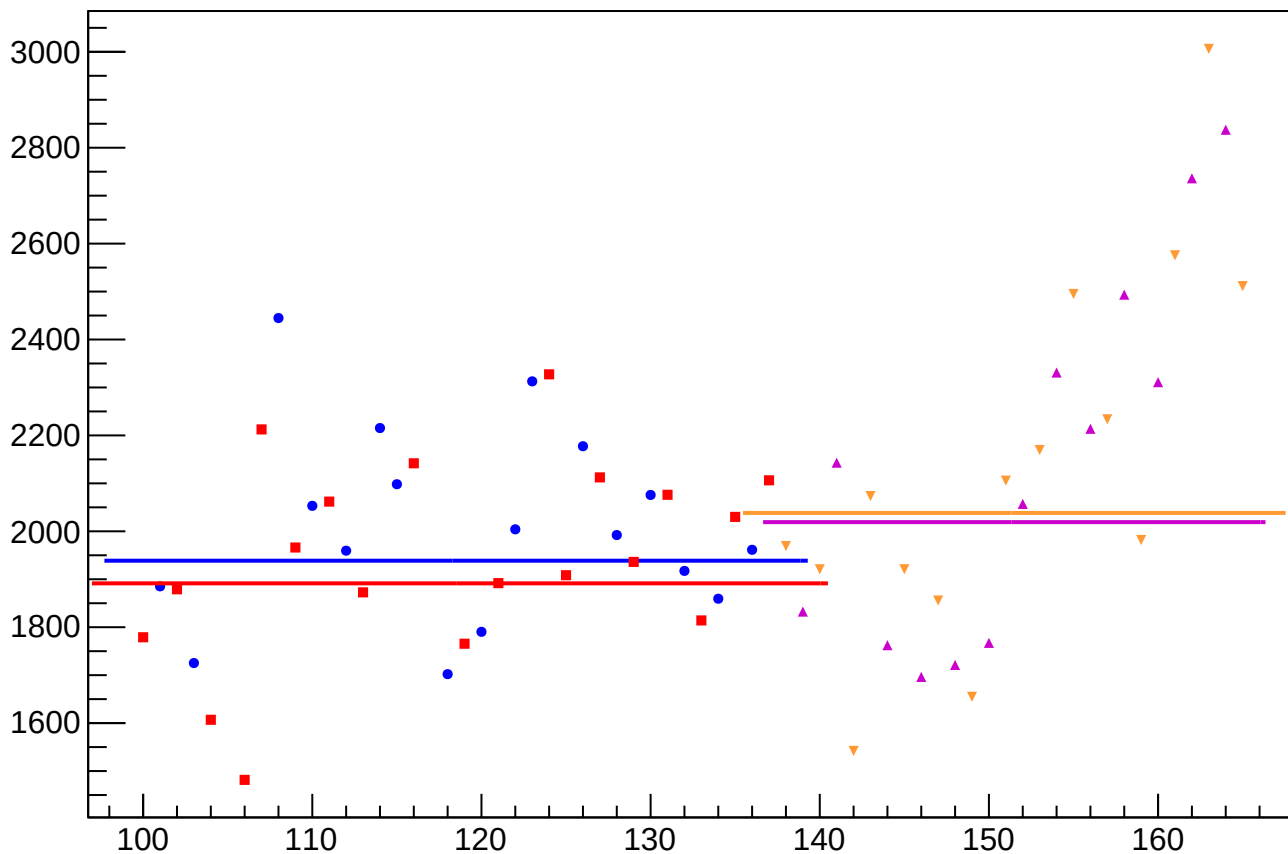
Right: 26.432 ± 0.517 $\chi^2/\text{NDF}: 4002.4/35$

In: -5.094 ± 0.488 $\chi^2/\text{NDF}: 11617.0/29$

Out: 1.400 ± 0.468 $\chi^2/\text{NDF}: 1436.3/33$

All: -1.710 ± 0.338 $\chi^2/\text{NDF}: 13145.4/63$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.688 $\pm$ 0.531 χ^2 /NDF: 100143.1/16

Left Out: 2038.336 $\pm$ 0.439 χ^2 /NDF: 542843.8/14

Right Out: 1891.466 $\pm$ 0.504 χ^2 /NDF: 146622.8/18

Left In: 2019.136 $\pm$ 0.455 χ^2 /NDF: 521391.5/12

Left: 2029.081 $\pm$ 0.316 χ^2 /NDF: 1065159.2/27

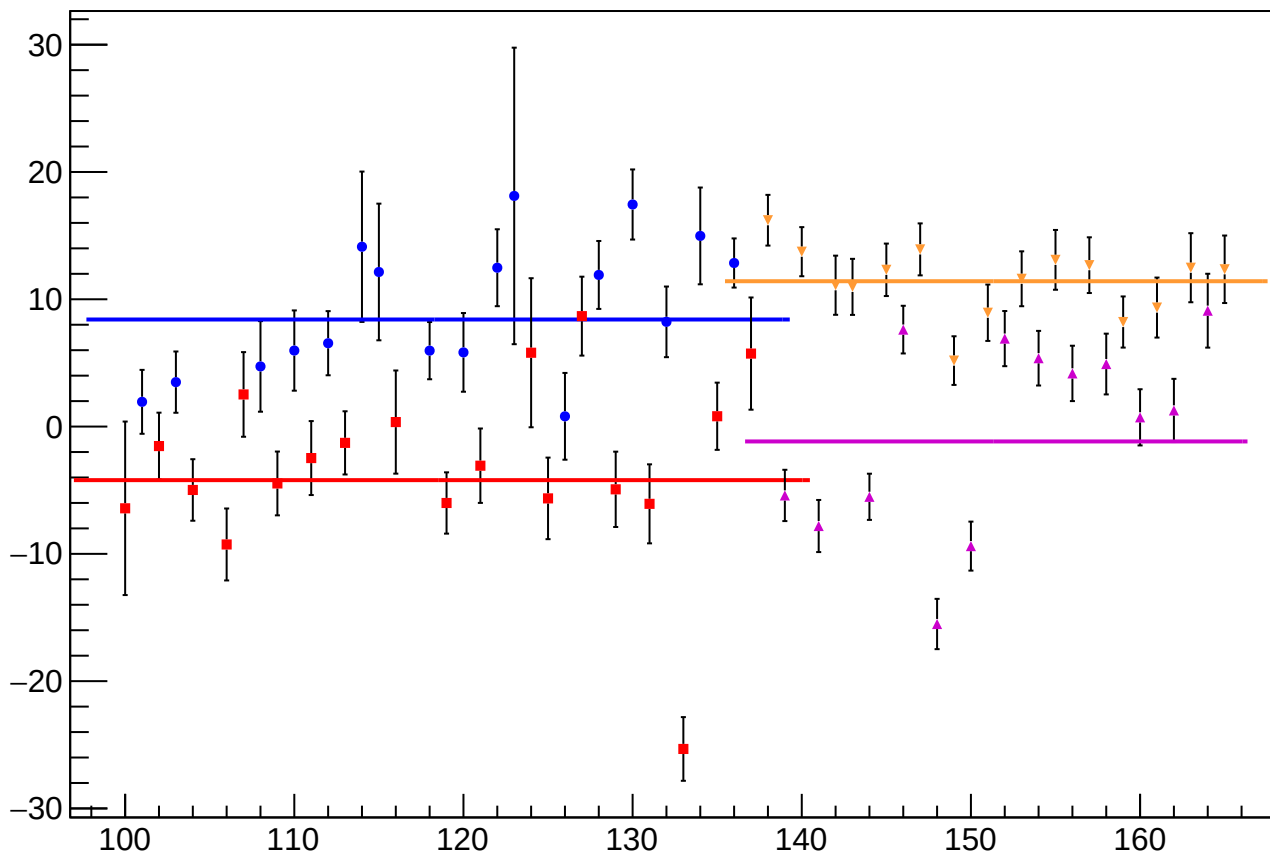
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

In: 1985.103 $\pm$ 0.345 χ^2 /NDF: 634783.3/29

Out: 1975.118 $\pm$ 0.331 χ^2 /NDF: 737746.2/33

All: 1979.899 $\pm$ 0.239 χ^2 /NDF: 1372965.3/63

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.411 ± 0.711 $\chi^2/\text{NDF}: 44.6/16$

Left Out: 11.418 ± 0.561 $\chi^2/\text{NDF}: 25.3/14$

Right Out: -4.208 ± 0.682 $\chi^2/\text{NDF}: 113.1/18$

Left In: -1.169 ± 0.587 $\chi^2/\text{NDF}: 163.6/12$

Left: 5.407 ± 0.406 $\chi^2/\text{NDF}: 429.3/27$

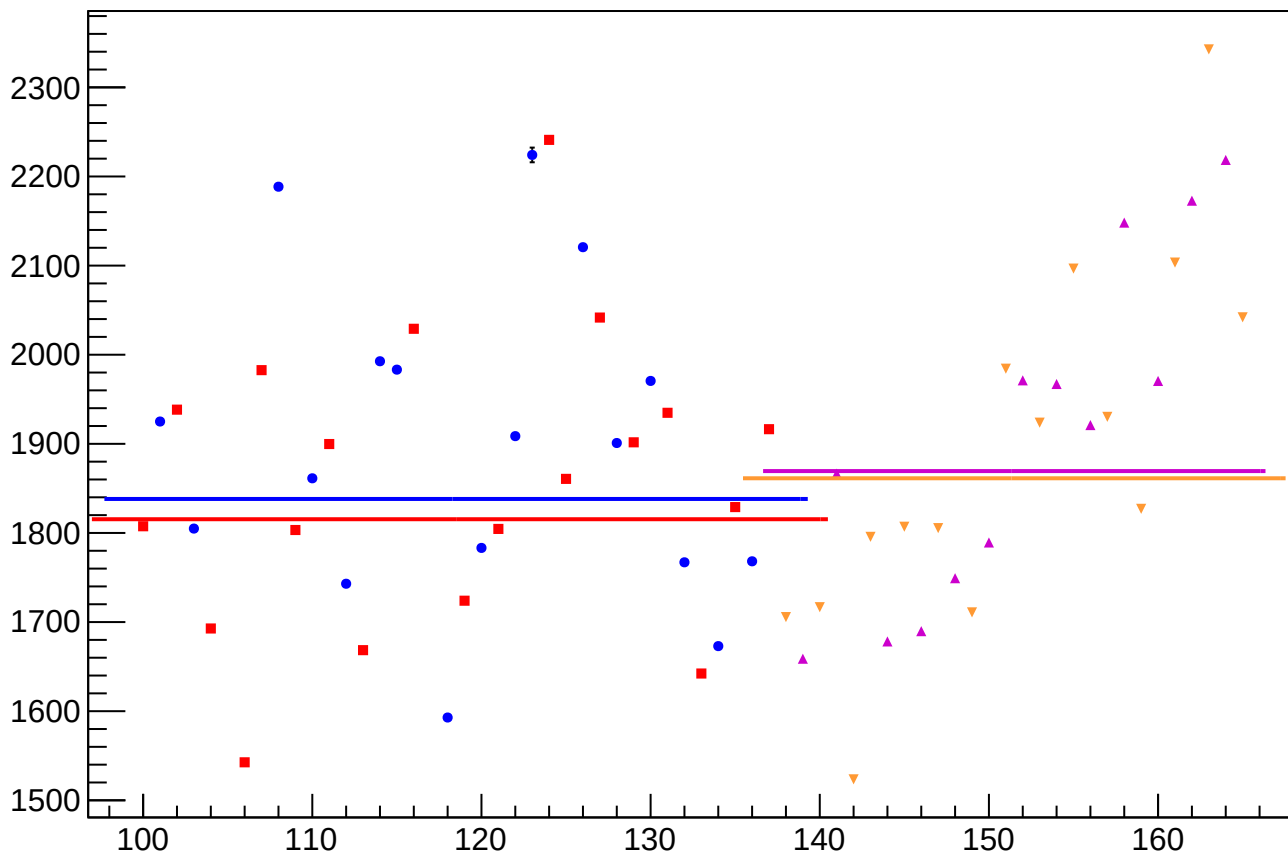
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 2.711 ± 0.453 $\chi^2/\text{NDF}: 316.2/29$

Out: 5.115 ± 0.433 $\chi^2/\text{NDF}: 451.3/33$

All: 3.965 ± 0.313 $\chi^2/\text{NDF}: 782.1/63$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.143 $\pm$ 0.503 χ^2/NDF : 82878.7/16

Left Out: 1861.352 $\pm$ 0.397 χ^2/NDF : 206603.5/14

Right Out: 1815.403 $\pm$ 0.483 χ^2/NDF : 87419.0/18

Left In: 1869.430 $\pm$ 0.415 χ^2/NDF : 173369.9/12

Left: 1865.210 $\pm$ 0.287 χ^2/NDF : 380171.4/27

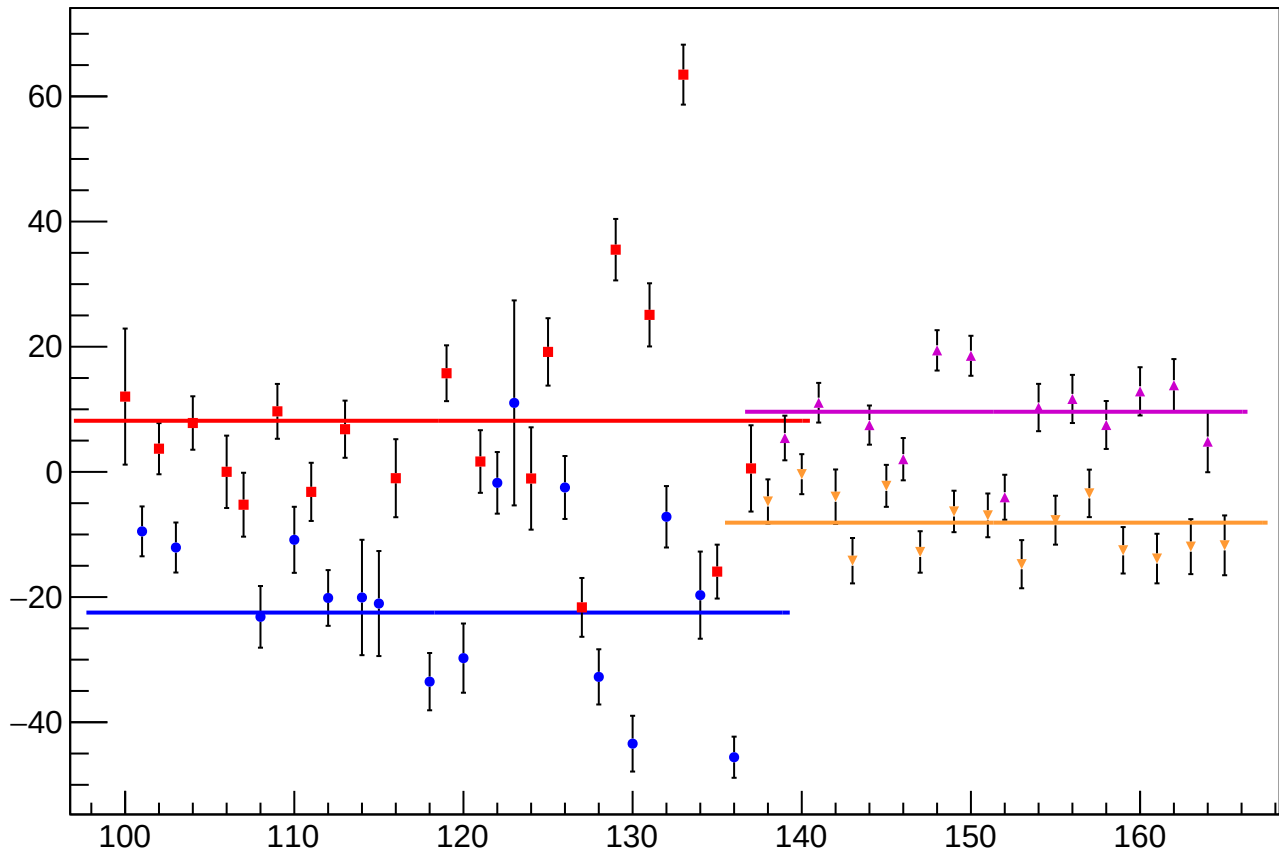
Right: 1826.303 $\pm$ 0.348 χ^2/NDF : 171362.3/35

In: 1856.757 $\pm$ 0.320 χ^2/NDF : 258551.2/29

Out: 1842.818 $\pm$ 0.306 χ^2/NDF : 299432.8/33

All: 1849.485 $\pm$ 0.221 χ^2/NDF : 558973.6/63

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.477 ± 1.195 χ^2/NDF : 154.7/16

Left Out: -8.111 ± 0.956 χ^2/NDF : 25.3/14

Right Out: 8.169 ± 1.157 χ^2/NDF : 276.9/18

Left In: 9.609 ± 0.994 χ^2/NDF : 41.9/12

Left: 0.401 ± 0.689 χ^2/NDF : 232.3/27

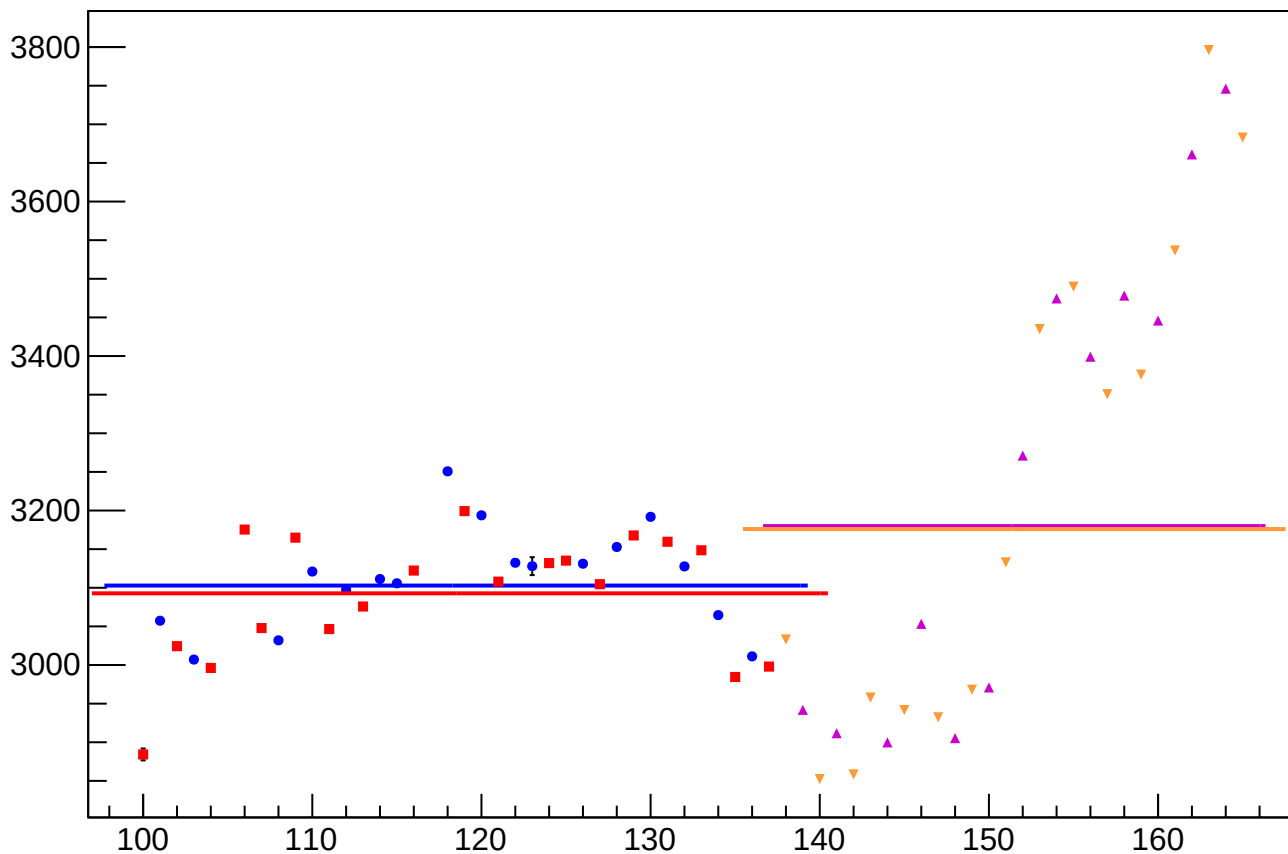
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.521 ± 0.764 χ^2/NDF : 622.8/29

Out: -1.502 ± 0.737 χ^2/NDF : 420.0/33

All: -2.475 ± 0.530 χ^2/NDF : 1046.3/63

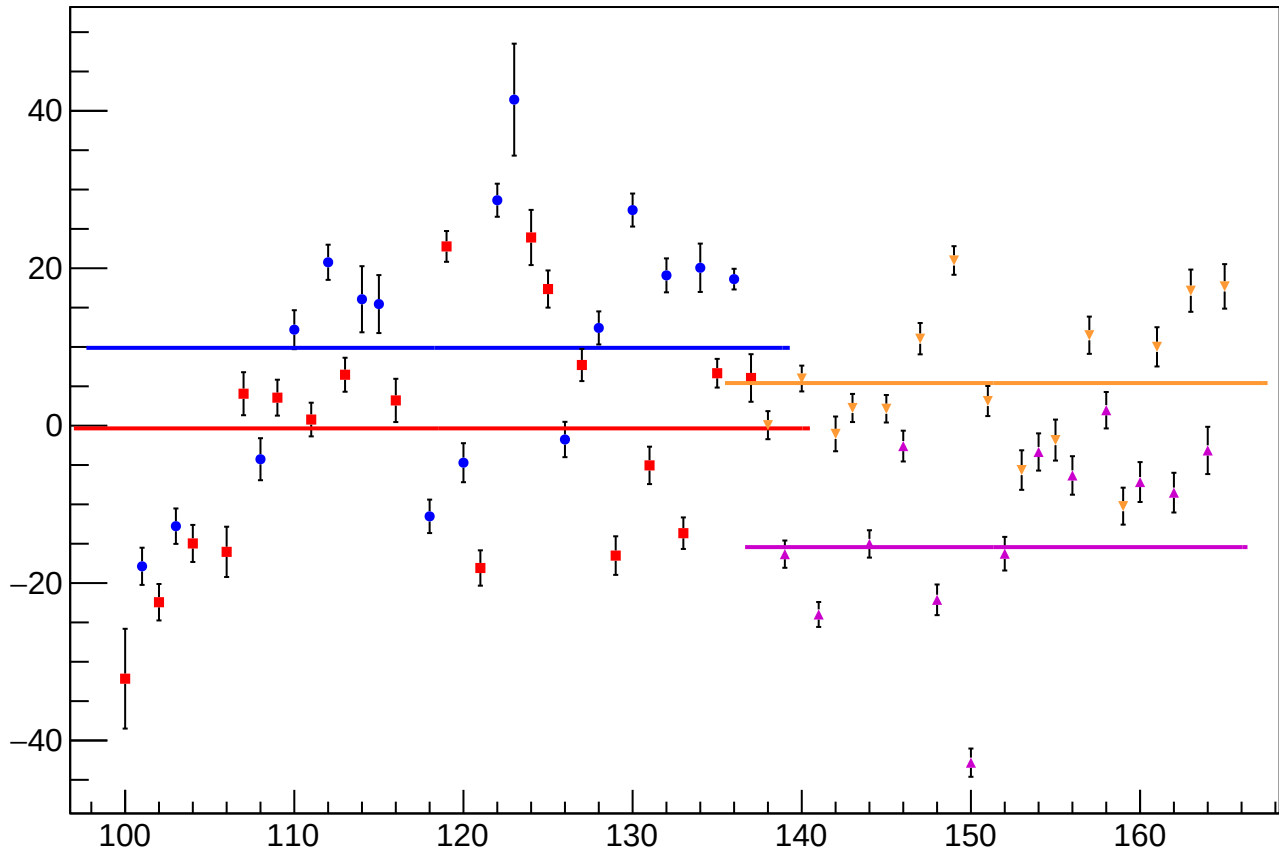
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 ± 0.845 $\chi^2/\text{NDF}: 7344.9/16$
 Left Out: 3176.024 ± 0.676 $\chi^2/\text{NDF}: 181368.6/14$
 Right Out: 3092.795 ± 0.818 $\chi^2/\text{NDF}: 7763.4/18$
 Left In: 3179.876 ± 0.703 $\chi^2/\text{NDF}: 160021.8/12$

Left: 3177.874 ± 0.487 $\chi^2/\text{NDF}: 341406.1/27$
 Right: 3097.657 ± 0.588 $\chi^2/\text{NDF}: 15181.4/35$
 In: 3148.355 ± 0.540 $\chi^2/\text{NDF}: 172278.7/29$
 Out: 3142.238 ± 0.521 $\chi^2/\text{NDF}: 195285.2/33$
 All: 3145.185 ± 0.375 $\chi^2/\text{NDF}: 367630.3/63$

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887 ± 0.559 $\chi^2/\text{NDF}: 703.6/16$

Left Out: 5.414 ± 0.538 $\chi^2/\text{NDF}: 226.7/14$

Right Out: -0.346 ± 0.547 $\chi^2/\text{NDF}: 628.9/18$

Left In: -15.431 ± 0.570 $\chi^2/\text{NDF}: 448.6/12$

Left: -4.403 ± 0.392 $\chi^2/\text{NDF}: 1381.6/27$

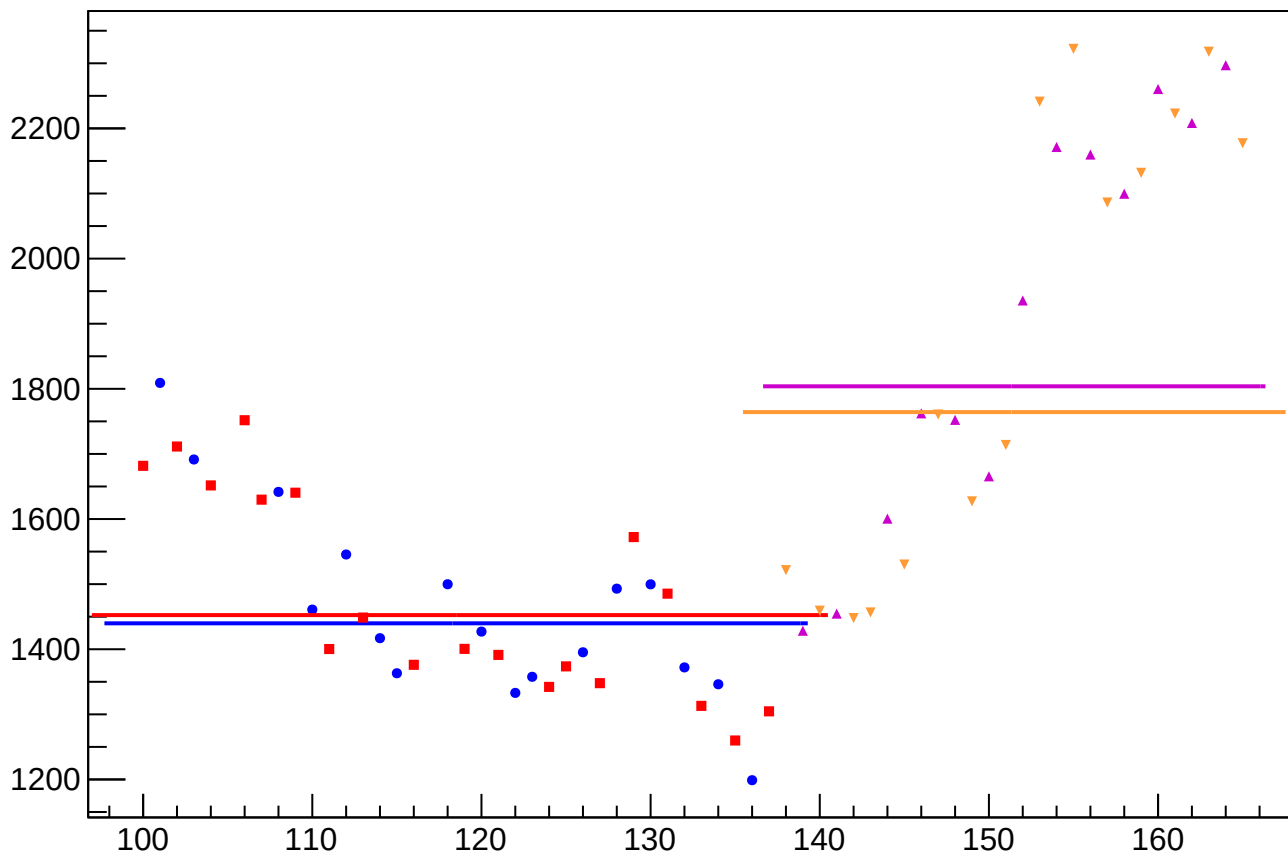
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

In: -2.525 ± 0.399 $\chi^2/\text{NDF}: 2156.2/29$

Out: 2.580 ± 0.384 $\chi^2/\text{NDF}: 911.9/33$

All: 0.130 ± 0.277 $\chi^2/\text{NDF}: 3153.1/63$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.826 $\pm$ 0.396 χ^2 /NDF: 172823.5/16

Left Out: 1764.263 $\pm$ 0.381 χ^2 /NDF: 700640.9/14

Right Out: 1452.452 $\pm$ 0.387 χ^2 /NDF: 138519.7/18

Left In: 1803.860 $\pm$ 0.403 χ^2 /NDF: 533759.4/12

Left: 1782.912 $\pm$ 0.277 χ^2 /NDF: 1239497.9/27

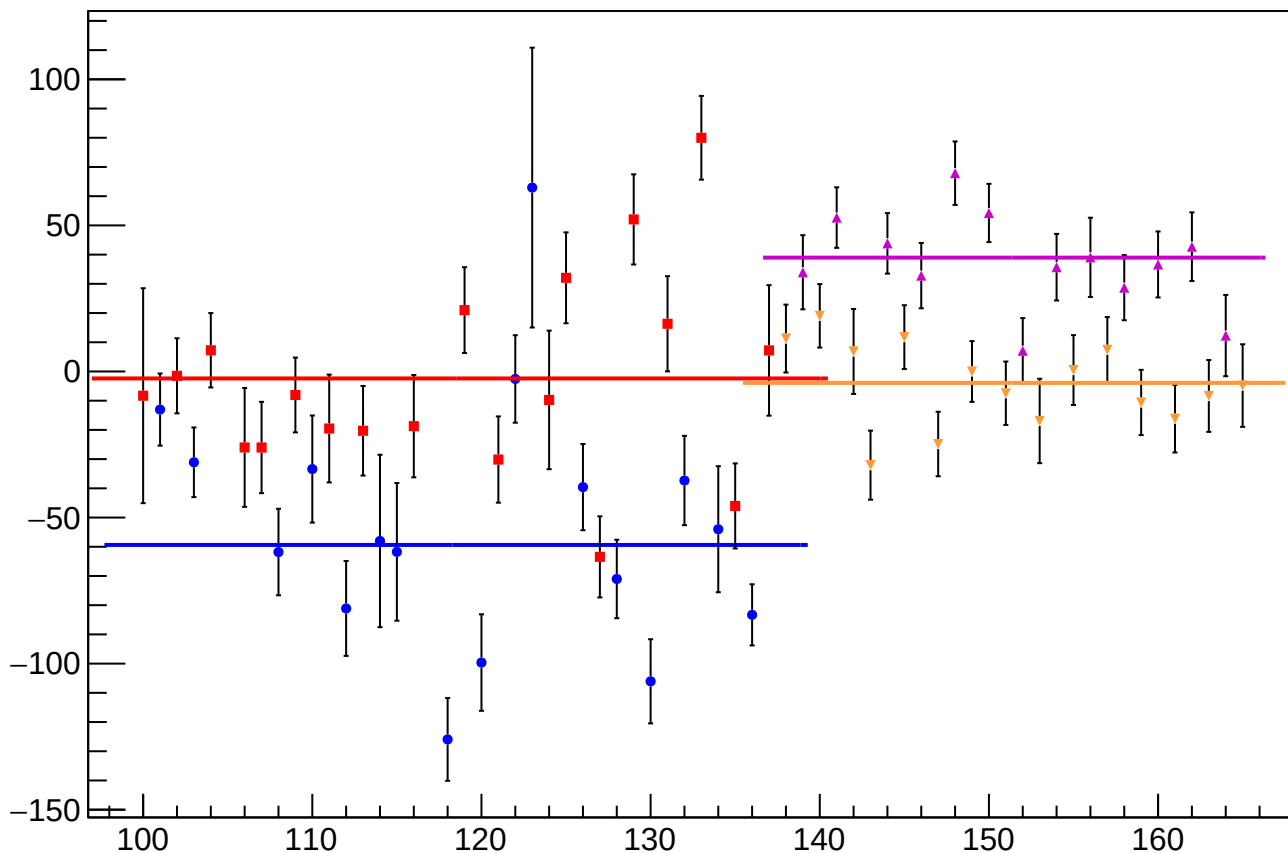
Right: 1446.283 $\pm$ 0.277 χ^2 /NDF: 311864.1/35

In: 1618.303 $\pm$ 0.282 χ^2 /NDF: 1121711.2/29

Out: 1610.833 $\pm$ 0.271 χ^2 /NDF: 1169409.2/33

All: 1614.417 $\pm$ 0.196 χ^2 /NDF: 2291484.2/63

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 ± 3.729 χ^2/NDF : 92.9/16

Left Out: -3.895 ± 3.030 χ^2/NDF : 21.9/14

Right Out: -2.388 ± 3.630 χ^2/NDF : 93.9/18

Left In: 38.968 ± 3.149 χ^2/NDF : 24.8/12

Left: 16.706 ± 2.183 χ^2/NDF : 142.8/27

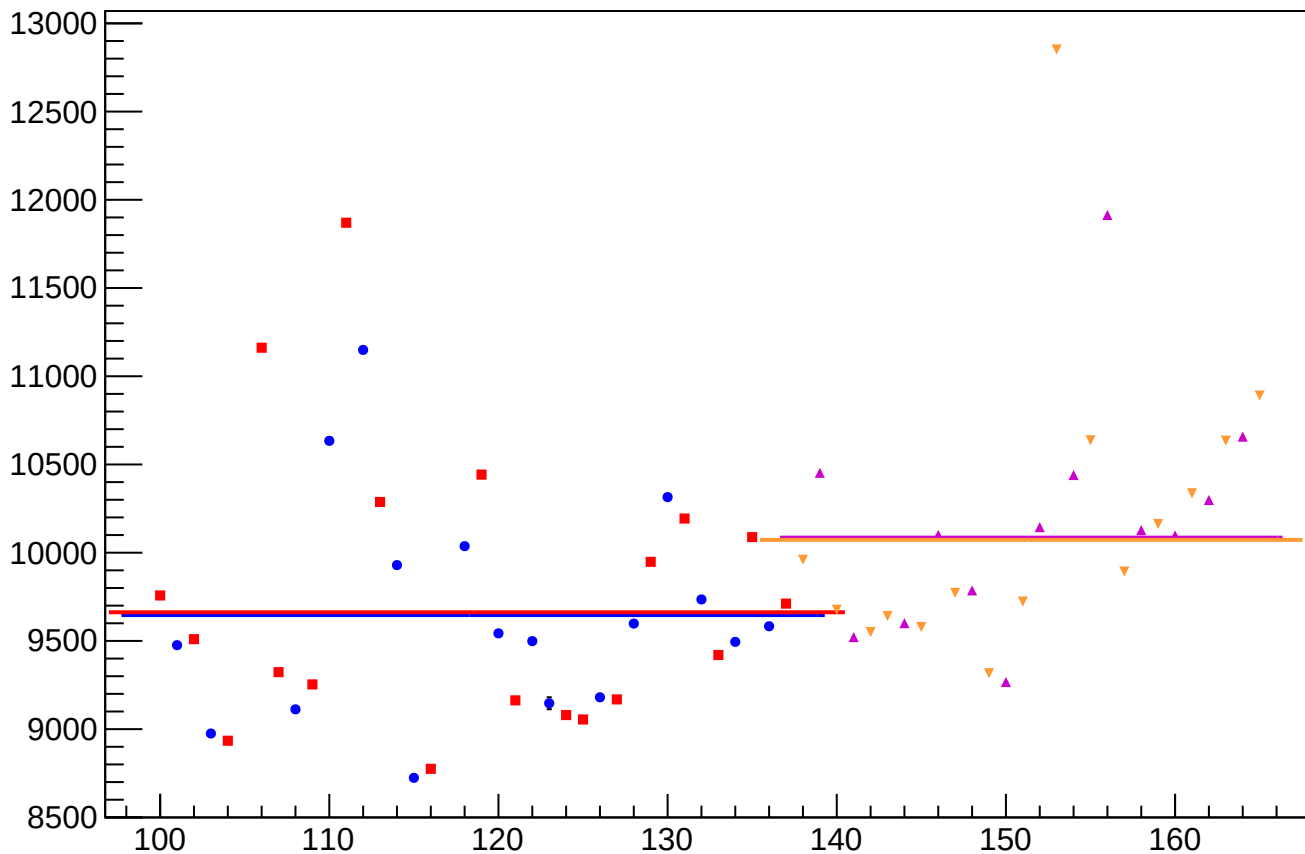
Right: -30.113 ± 2.601 χ^2/NDF : 306.8/35

In: -1.976 ± 2.406 χ^2/NDF : 523.6/29

Out: -3.276 ± 2.326 χ^2/NDF : 115.9/33

All: -2.648 ± 1.672 χ^2/NDF : 639.7/63

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480+/-2.637 χ^2/NDF : 44060.3/16

Left Out: 10072.778+/-2.142 χ^2/NDF :117351.1/14

Right Out: 9662.363+/-2.567 χ^2/NDF : 77584.0/18

Left In: 10085.140+/-2.227 χ^2/NDF :69428.2/12

Left: 10078.720+/-1.544 χ^2/NDF : 186795.3/27

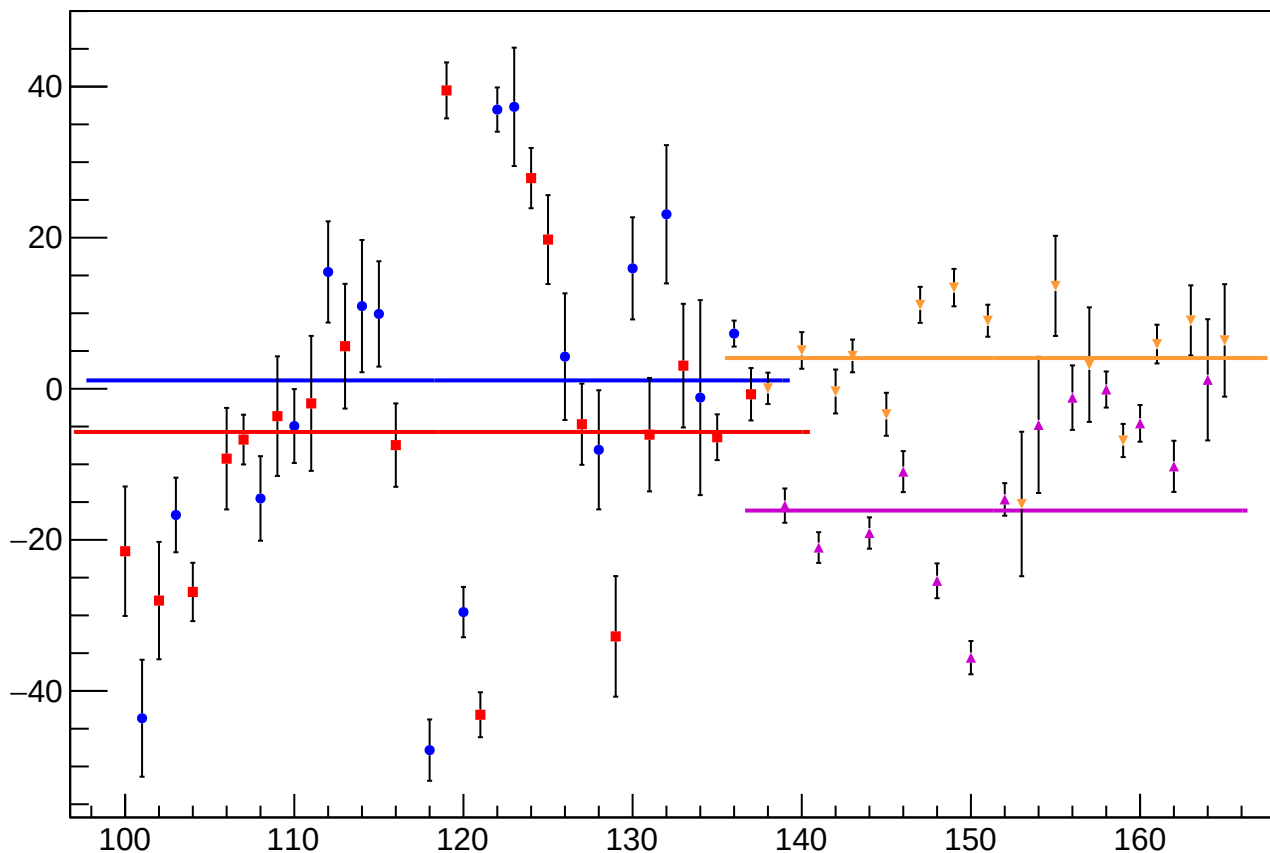
Right: 9654.635+/-1.839 χ^2/NDF : 121662.9/35

In: 9902.507+/-1.701 χ^2/NDF :129643.2/29

Out: 9904.256+/-1.645 χ^2/NDF :210006.1/33

All: 9903.411+/-1.182 χ^2/NDF : 339649.8/63

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 $\pm$ 1.066 χ^2/NDF : 489.7/16

Left Out: 4.066 $\pm$ 0.727 χ^2/NDF :74.1/14

Right Out: -5.716 $\pm$ -1.091 χ^2/NDF : 456.0/18

Left In: -16.121 $\pm$ -0.720 χ^2/NDF :195.4/12

Left: -6.119 $\pm$ -0.512 χ^2/NDF : 658.7/27

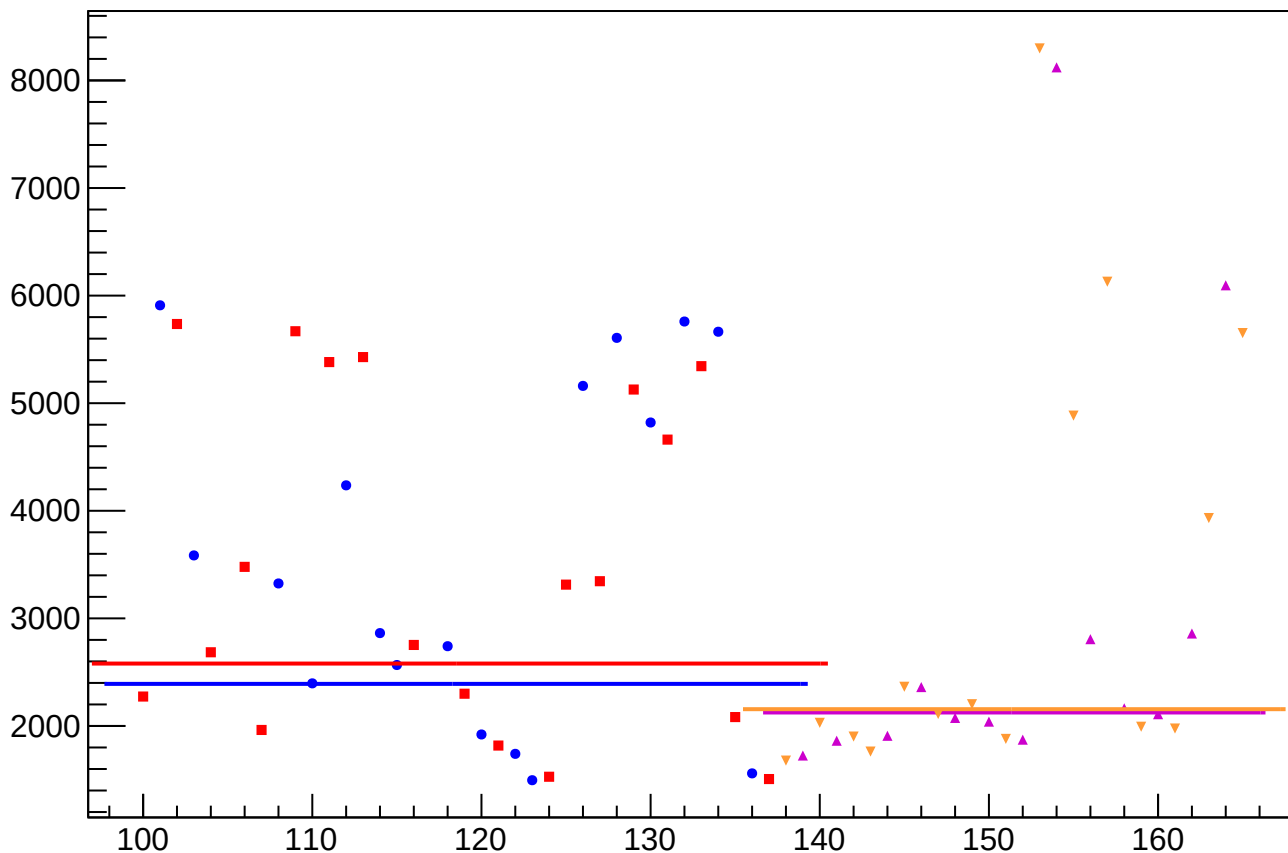
Right: -2.227 $\pm$ -0.763 χ^2/NDF : 965.6/35

In: -10.725 $\pm$ -0.597 χ^2/NDF :864.3/29

Out: 1.060 $\pm$ -0.605 χ^2/NDF :585.7/33

All: -4.911 $\pm$ -0.425 χ^2/NDF : 1642.3/63

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2391.162 $\pm$ 0.754 χ^2/NDF : 2600547.2/16

Left Out: 2156.011 $\pm$ 0.514 χ^2/NDF : 2706075.4/14

Right Out: 2580.040 $\pm$ 0.772 χ^2/NDF : 2365271.4/18

Left In: 2125.292 $\pm$ 0.509 χ^2/NDF : 1684296.8/12

Left: 2140.513 $\pm$ 0.362 χ^2/NDF : 4392175.0/27

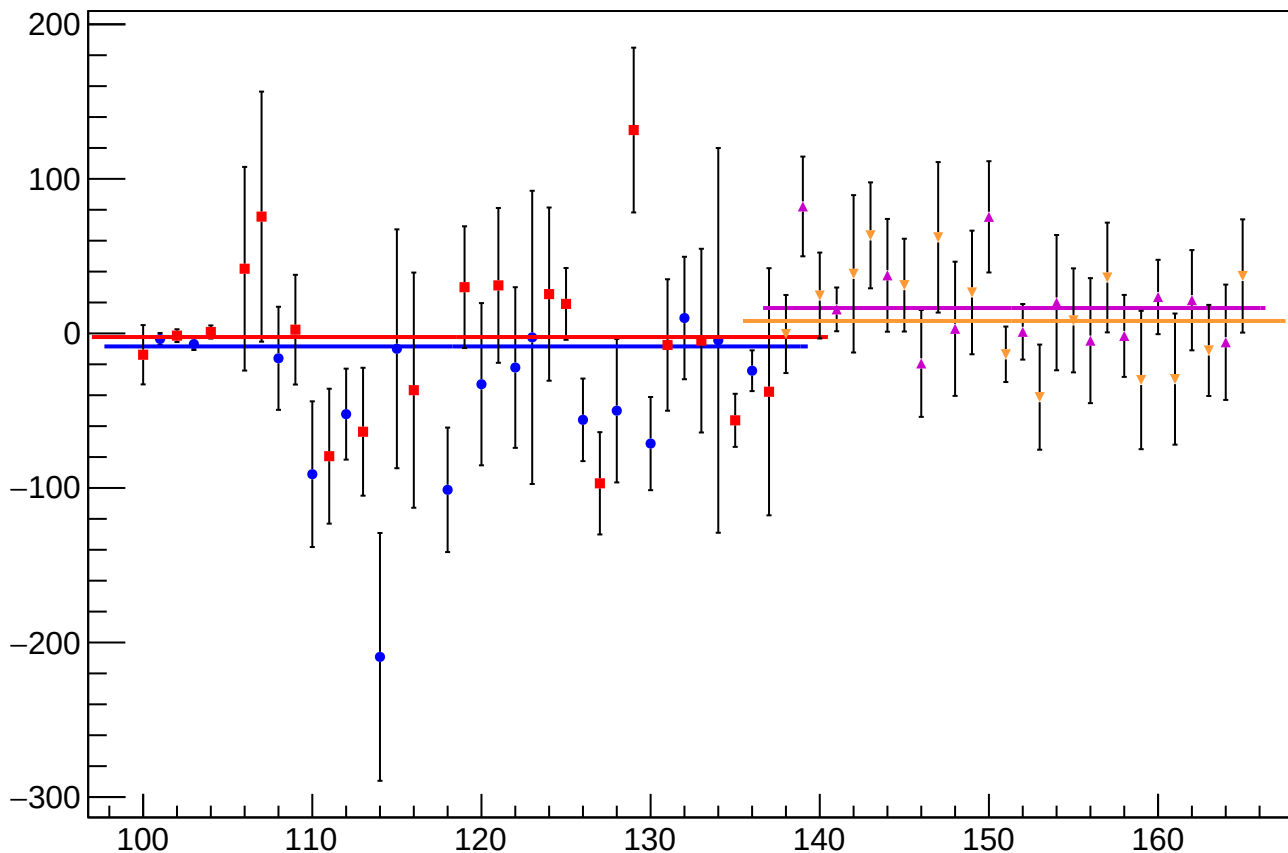
Right: 2483.443 $\pm$ 0.539 χ^2/NDF : 4996468.7/35

In: 2208.569 $\pm$ 0.422 χ^2/NDF : 4370211.7/29

Out: 2286.322 $\pm$ 0.428 χ^2/NDF : 5280572.2/33

All: 2246.927 $\pm$ 0.300 χ^2/NDF : 9667528.1/63

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.430 $\pm$ 2.587 χ^2/NDF : 28.9/16

Left Out: 8.047 $\pm$ 8.206 χ^2/NDF :12.2/14

Right Out: -2.348 $\pm$ 2.787 χ^2/NDF : 34.7/18

Left In: 16.429 $\pm$ 7.476 χ^2/NDF :10.3/12

Left: 12.627 $\pm$ 5.526 χ^2/NDF : 23.1/27

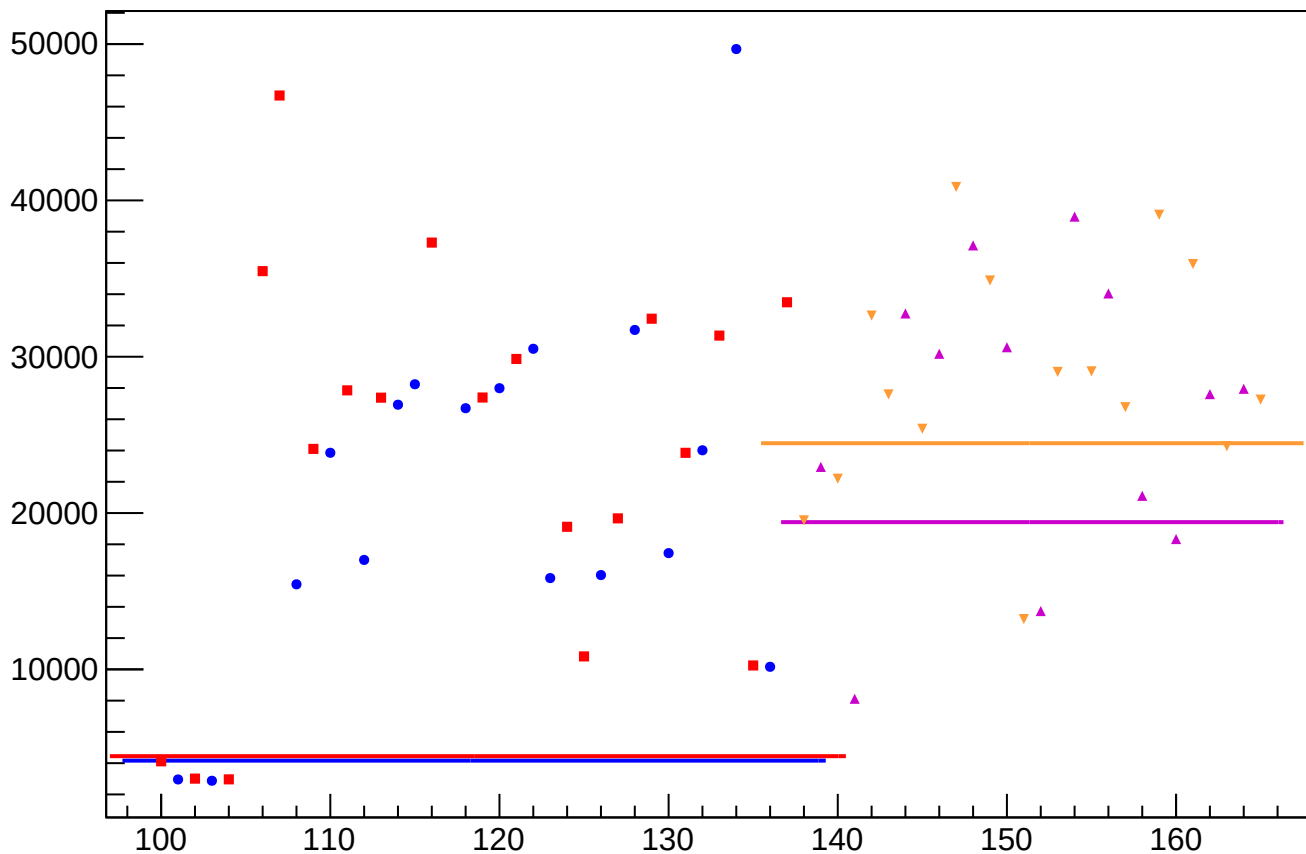
Right: -5.615 $\pm$ 1.896 χ^2/NDF : 66.1/35

In: -5.771 $\pm$ 2.445 χ^2/NDF :49.1/29

Out: -1.273 $\pm$ 2.639 χ^2/NDF :48.3/33

All: -3.693 $\pm$ 1.794 χ^2/NDF : 98.9/63

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4162.318+/-1.830 χ^2/NDF : 5990070.5/16

Left Out: 24467.509+/-5.802 χ^2/NDF : 1760592.4/14

Right Out: 4447.123+/-1.971 χ^2/NDF : 7426930.4/18

Left In: 19418.313+/-5.287 χ^2/NDF : 3391592.4/12

Left: 21708.594+/-3.908 χ^2/NDF : 5565955.5/27

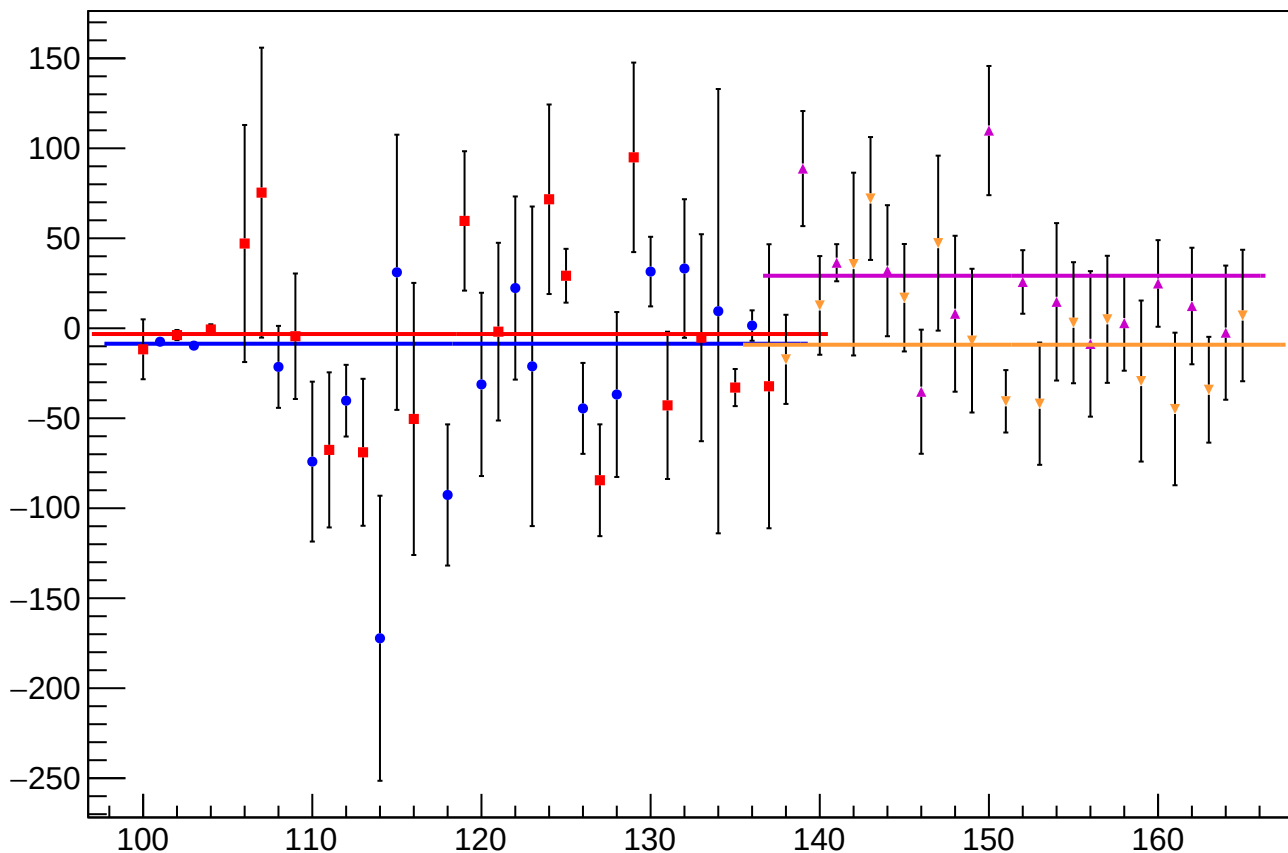
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

In: 5794.110+/-1.729 χ^2/NDF : 16818708.0/29

Out: 6517.524+/-1.866 χ^2/NDF : 19861732.9/33

All: 6128.300+/-1.268 χ^2/NDF : 36761313.9/6

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.586 $\pm$ 1.778 χ^2/NDF : 24.4/16

Left Out: -9.144 $\pm$ 8.106 χ^2/NDF : 15.6/14

Right Out: -3.194 $\pm$ 1.922 χ^2/NDF : 36.9/18

Left In: 29.185 $\pm$ 6.673 χ^2/NDF : 15.8/12

Left: 13.702 $\pm$ 5.152 χ^2/NDF : 44.8/27

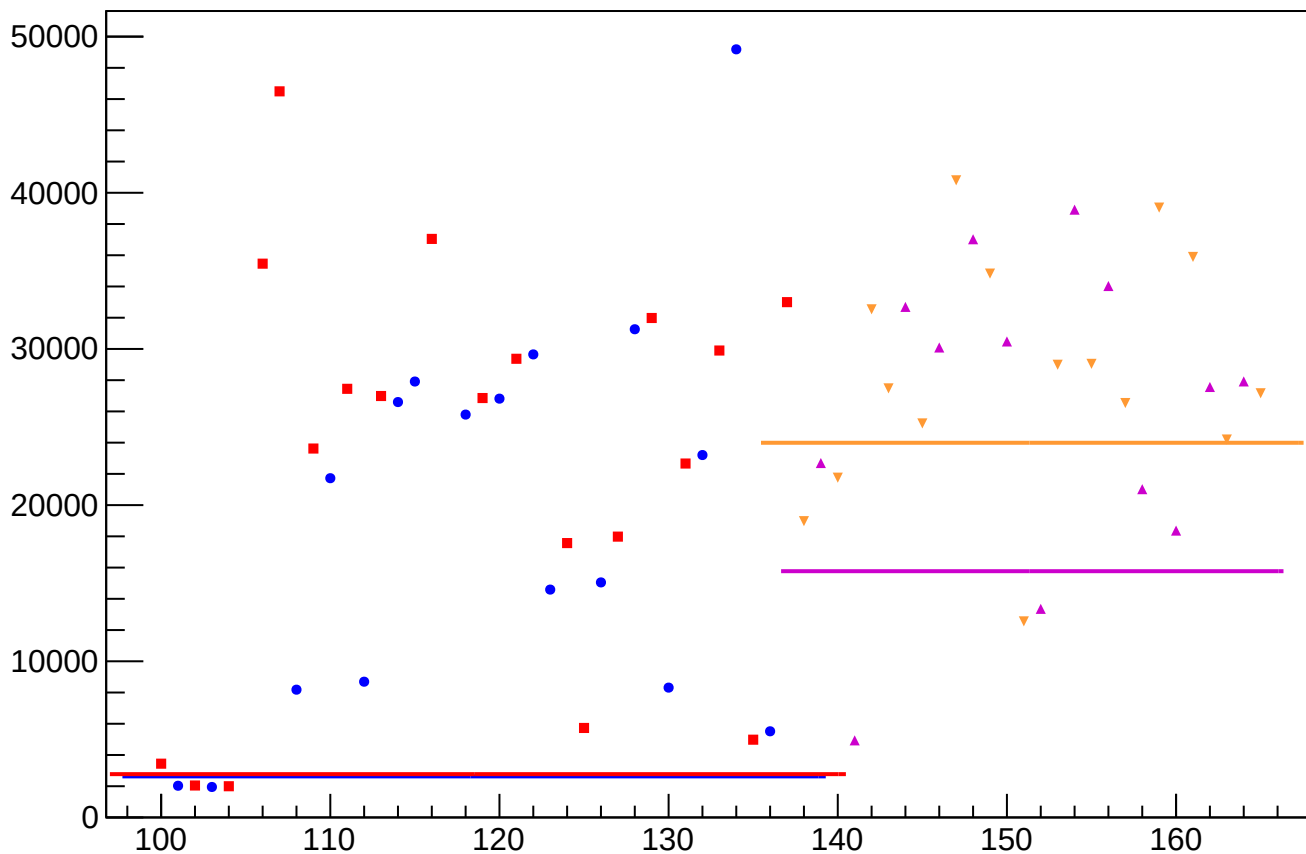
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -6.083 $\pm$ 1.718 χ^2/NDF : 70.1/29

Out: -3.511 $\pm$ 1.870 χ^2/NDF : 53.0/33

All: -4.906 $\pm$ 1.265 χ^2/NDF : 124.2/63

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2630.547 ± 1.257 $\chi^2/\text{NDF}: 5588981.6/16$

Left Out: 23992.606 ± 5.732 $\chi^2/\text{NDF}: 1930780.0/14$

Right Out: 2773.446 ± 1.359 $\chi^2/\text{NDF}: 7835878.7/18$

Left In: 15768.871 ± 4.718 $\chi^2/\text{NDF}: 5481540.4/12$

Left: 19090.737 ± 3.643 $\chi^2/\text{NDF}: 8639418.2/27$

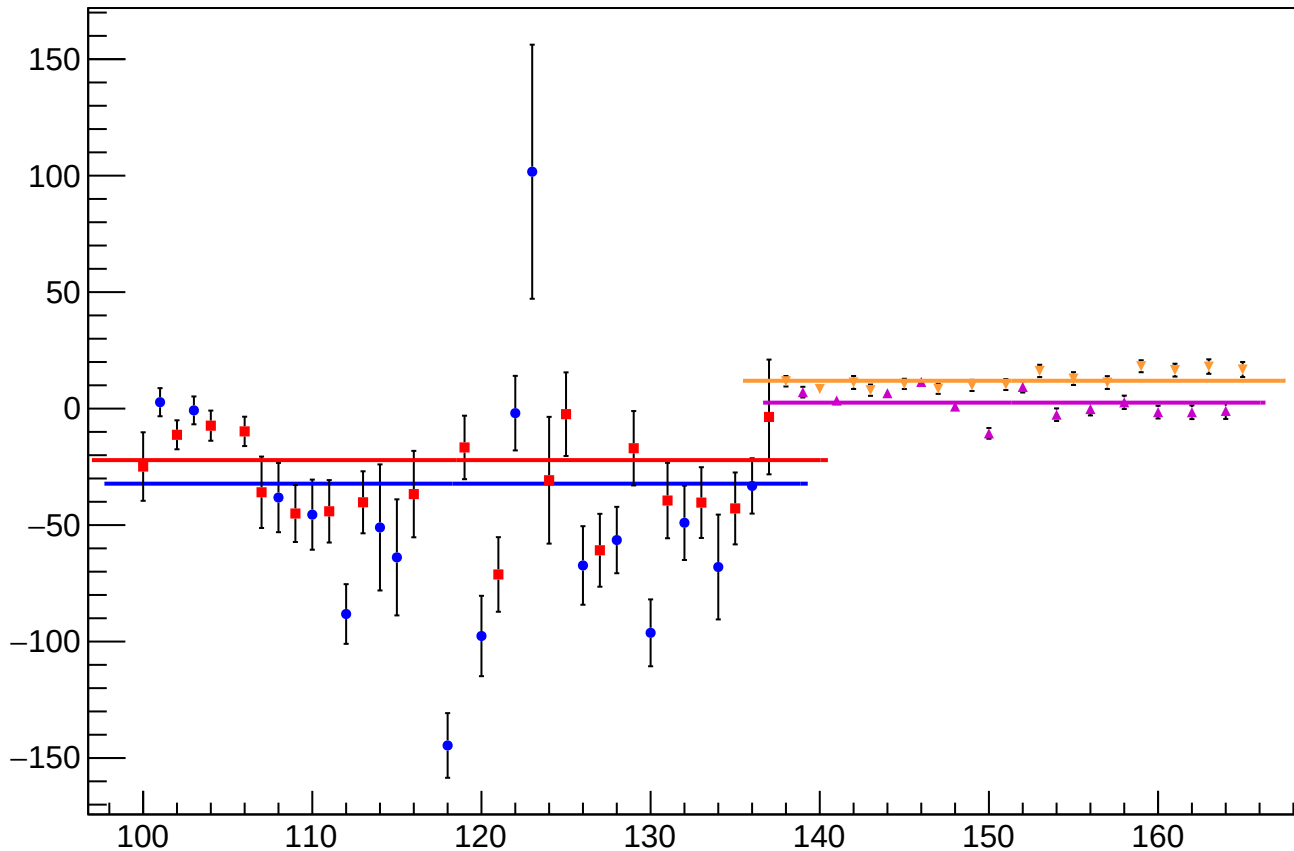
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3501.308 ± 1.215 $\chi^2/\text{NDF}: 18310318.7/29$

Out: 3903.238 ± 1.323 $\chi^2/\text{NDF}: 22742717.8/33$

All: 3685.218 ± 0.895 $\chi^2/\text{NDF}: 41103135.0/6$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.222 ± 2.981 χ^2/NDF : 203.7/16

Left Out: 11.952 ± 0.649 χ^2/NDF : 27.0/14

Right Out: -22.111 ± 2.669 χ^2/NDF : 43.7/18

Left In: 2.558 ± 0.678 χ^2/NDF : 77.1/12

Left: 7.462 ± 0.469 χ^2/NDF : 204.4/27

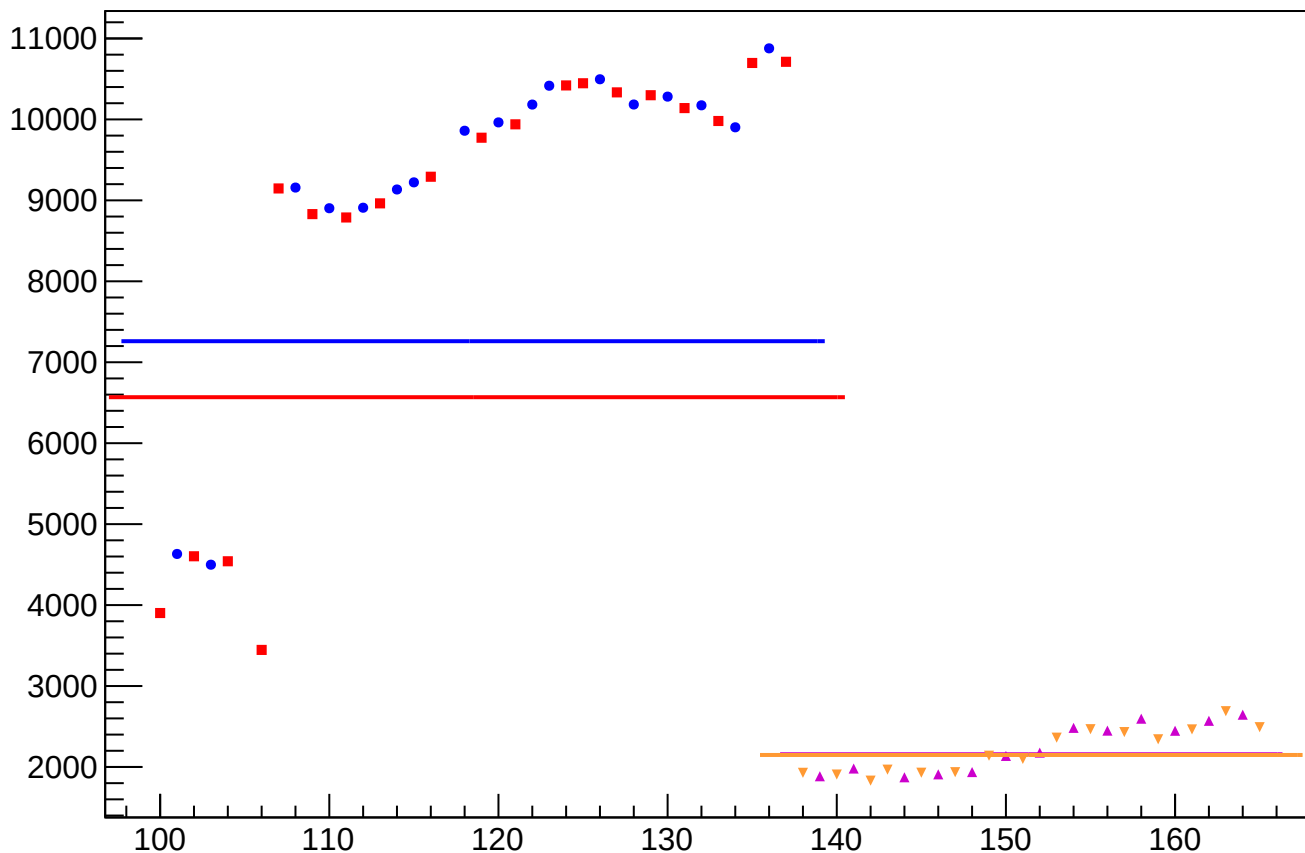
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 0.848 ± 0.661 χ^2/NDF : 410.2/29

Out: 10.052 ± 0.630 χ^2/NDF : 224.5/33

All: 5.669 ± 0.456 χ^2/NDF : 736.2/63

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7260.081 $\pm$ 2.108 χ^2 /NDF: 1636373.2/16

Left Out: 2148.299 $\pm$ 0.459 χ^2 /NDF: 302607.5/14

Right Out: 6568.180 $\pm$ 1.887 χ^2 /NDF: 2196546.0/18

Left In: 2157.545 $\pm$ 0.479 χ^2 /NDF: 330485.6/12

Left: 2152.719 $\pm$ 0.331 χ^2 /NDF: 633287.2/27

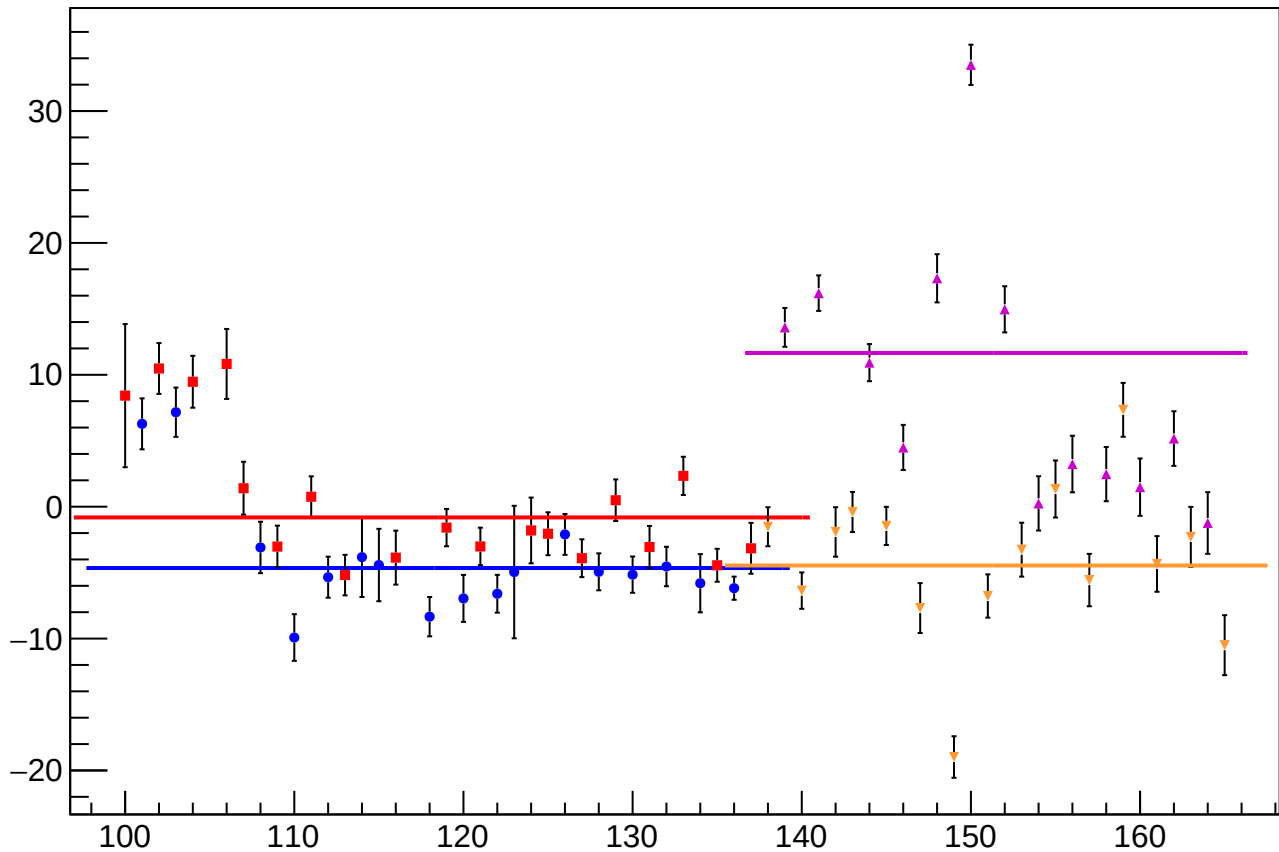
Right: 6876.033 $\pm$ 1.406 χ^2 /NDF: 3892707.9/35

In: 2408.404 $\pm$ 0.467 χ^2 /NDF: 7537021.2/29

Out: 2394.790 $\pm$ 0.446 χ^2 /NDF: 7676806.4/33

All: 2401.274 $\pm$ 0.323 χ^2 /NDF: 15214271.9/6

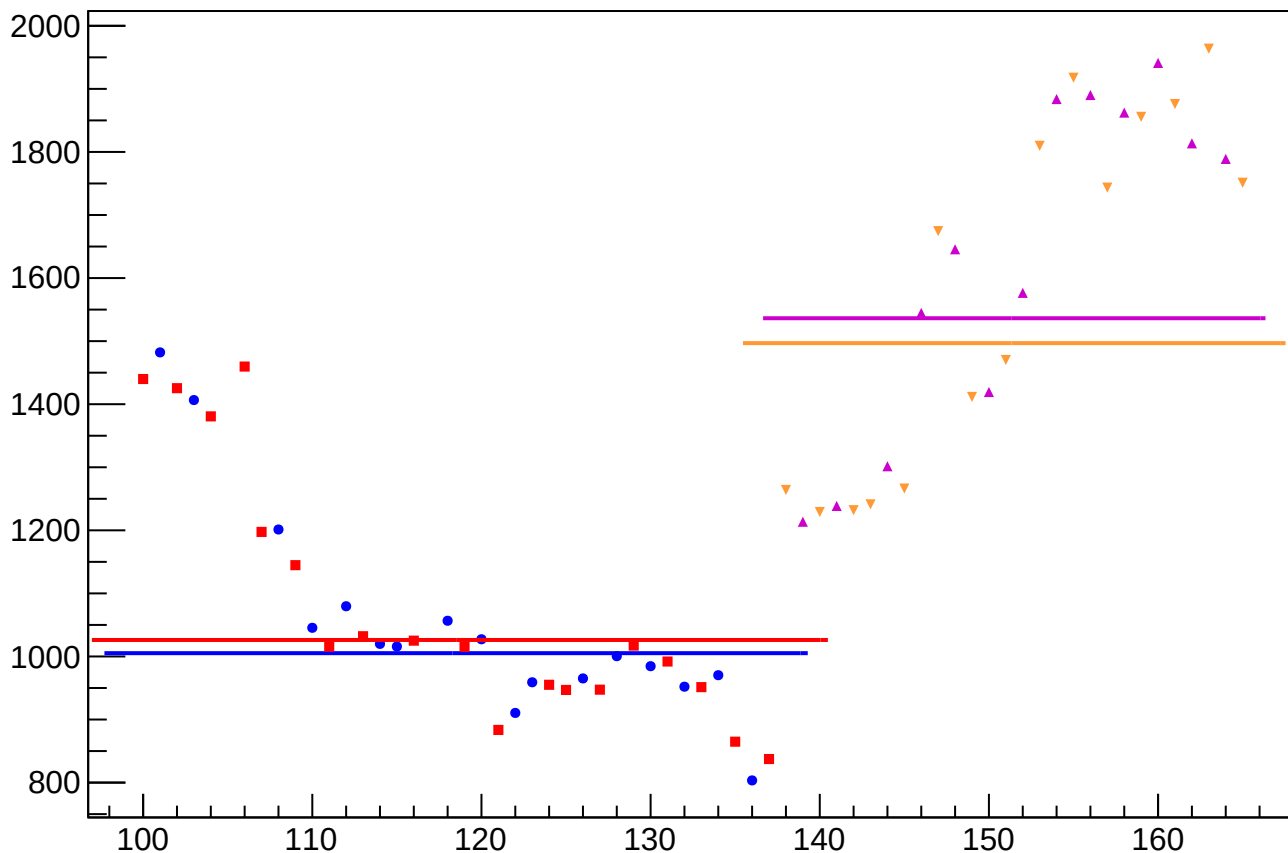
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -4.459 ± 0.457 $\chi^2/\text{NDF}: 158.2/14$
 Right Out: -0.814 ± 0.388 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 11.657 ± 0.486 $\chi^2/\text{NDF}: 376.9/12$

Left: 3.098 ± 0.333 $\chi^2/\text{NDF}: 1118.7/27$
 Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$
 In: 1.787 ± 0.305 $\chi^2/\text{NDF}: 1155.5/29$
 Out: -2.344 ± 0.296 $\chi^2/\text{NDF}: 318.8/33$
 All: -0.344 ± 0.213 $\chi^2/\text{NDF}: 1568.6/63$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1005.227+/-0.278 χ^2/NDF : 361954.2/16

Left Out: 1496.827+/-0.323 χ^2/NDF : 685526.7/14

Right Out: 1026.158+/-0.275 χ^2/NDF : 333119.0/18

Left In: 1536.299+/-0.344 χ^2/NDF : 559539.4/12

Left: 1515.337+/-0.235 χ^2/NDF : 1252066.5/27

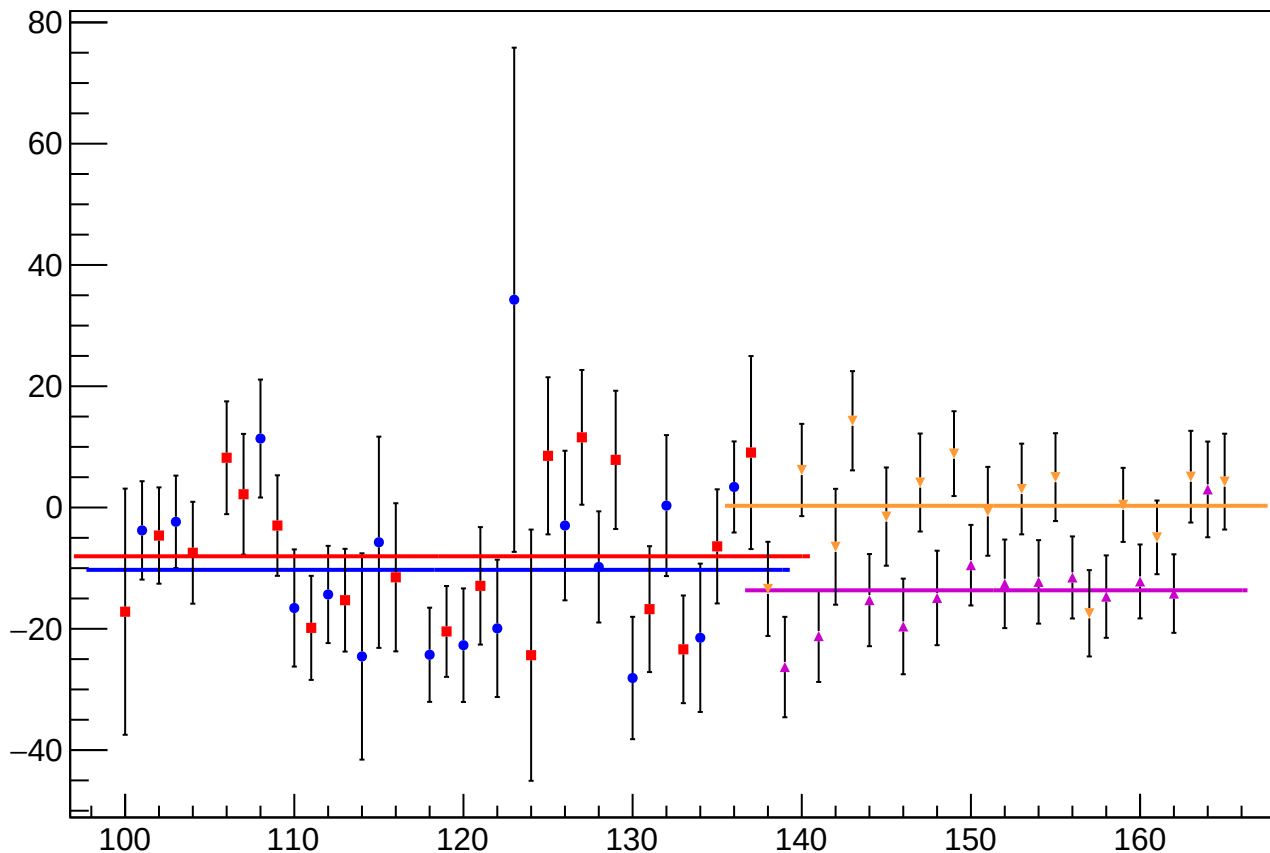
Right: 1015.803+/-0.195 χ^2/NDF : 697945.4/35

In: 1214.854+/-0.216 χ^2/NDF : 2365835.3/29

Out: 1223.678+/-0.209 χ^2/NDF : 2250541.8/33

All: 1219.405+/-0.150 χ^2/NDF : 4617238.0/63

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.277 ± 2.408 $\chi^2/\text{NDF}: 23.5/16$

Left Out: 0.288 ± 1.912 $\chi^2/\text{NDF}: 17.1/14$

Right Out: -8.041 ± 2.278 $\chi^2/\text{NDF}: 22.8/18$

Left In: -13.655 ± 1.981 $\chi^2/\text{NDF}: 9.1/12$

Left: -6.436 ± 1.376 $\chi^2/\text{NDF}: 51.8/27$

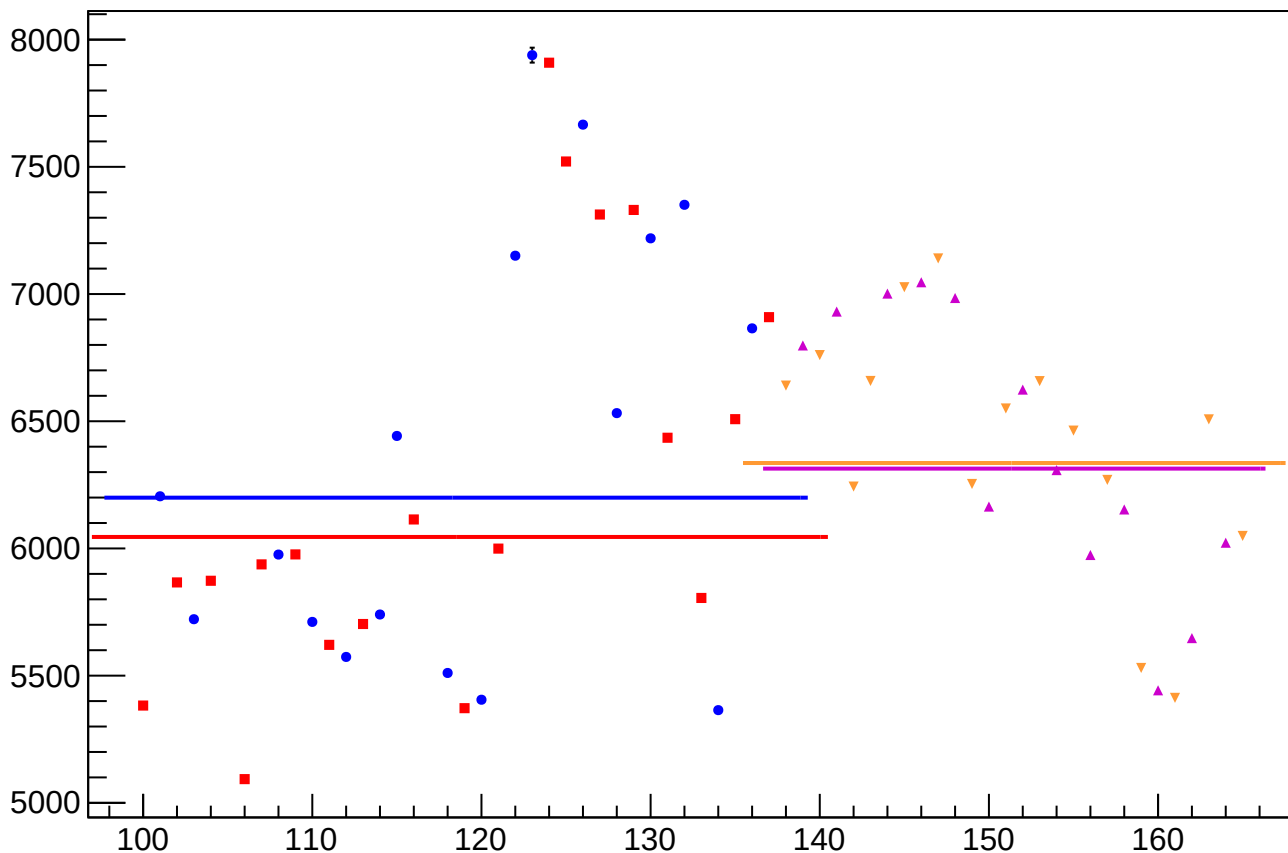
Right: -9.097 ± 1.655 $\chi^2/\text{NDF}: 46.7/35$

In: -12.291 ± 1.530 $\chi^2/\text{NDF}: 33.7/29$

Out: -3.154 ± 1.465 $\chi^2/\text{NDF}: 47.7/33$

All: -7.524 ± 1.058 $\chi^2/\text{NDF}: 100.0/63$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6199.617 $\pm$ 1.703 χ^2/NDF : 171760.4/16

Left Out: 6335.835 $\pm$ 1.352 χ^2/NDF : 138094.8/14

Right Out: 6045.172 $\pm$ 1.611 χ^2/NDF : 158323.0/18

Left In: 6313.807 $\pm$ 1.401 χ^2/NDF : 144183.7/12

Left: 6325.211 $\pm$ 0.973 χ^2/NDF : 282406.5/27

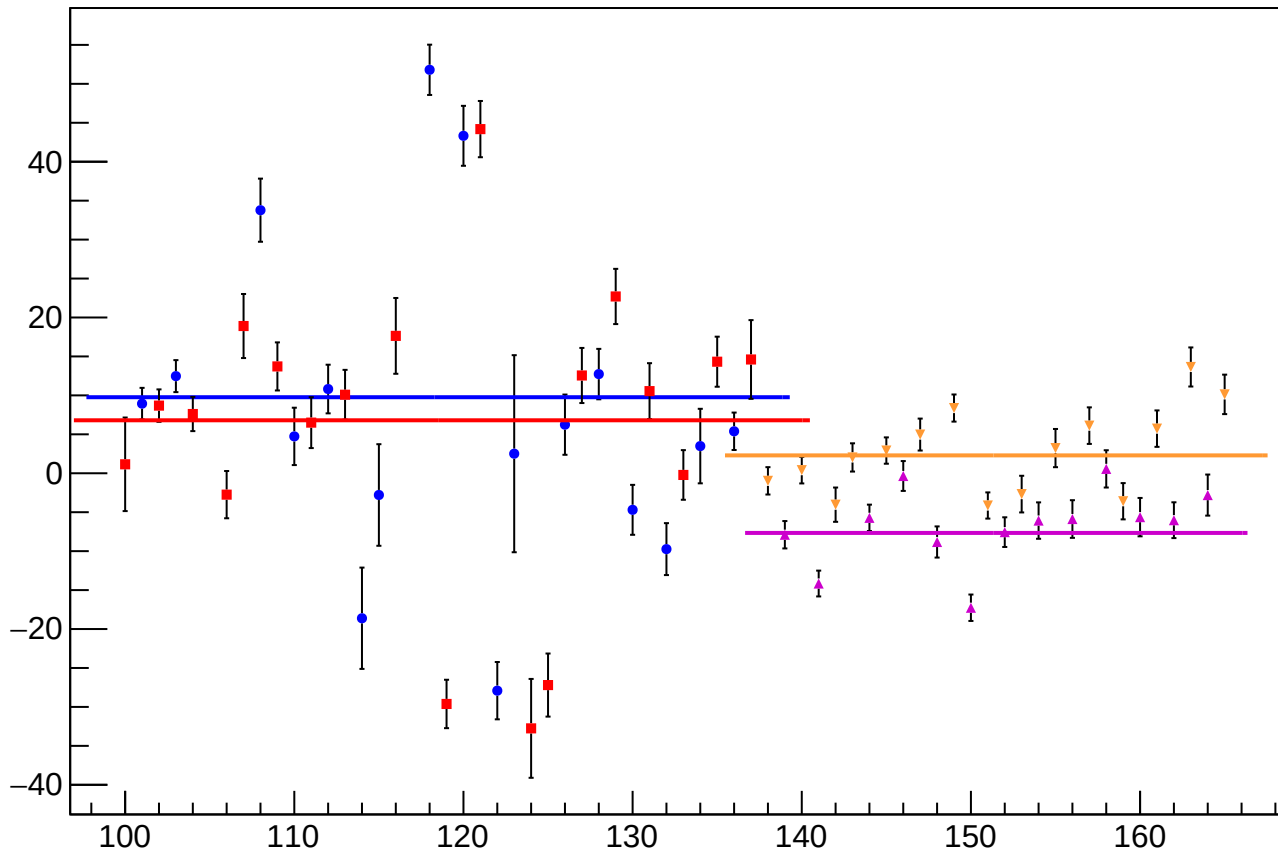
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

In: 6267.707 $\pm$ 1.082 χ^2/NDF : 318626.4/29

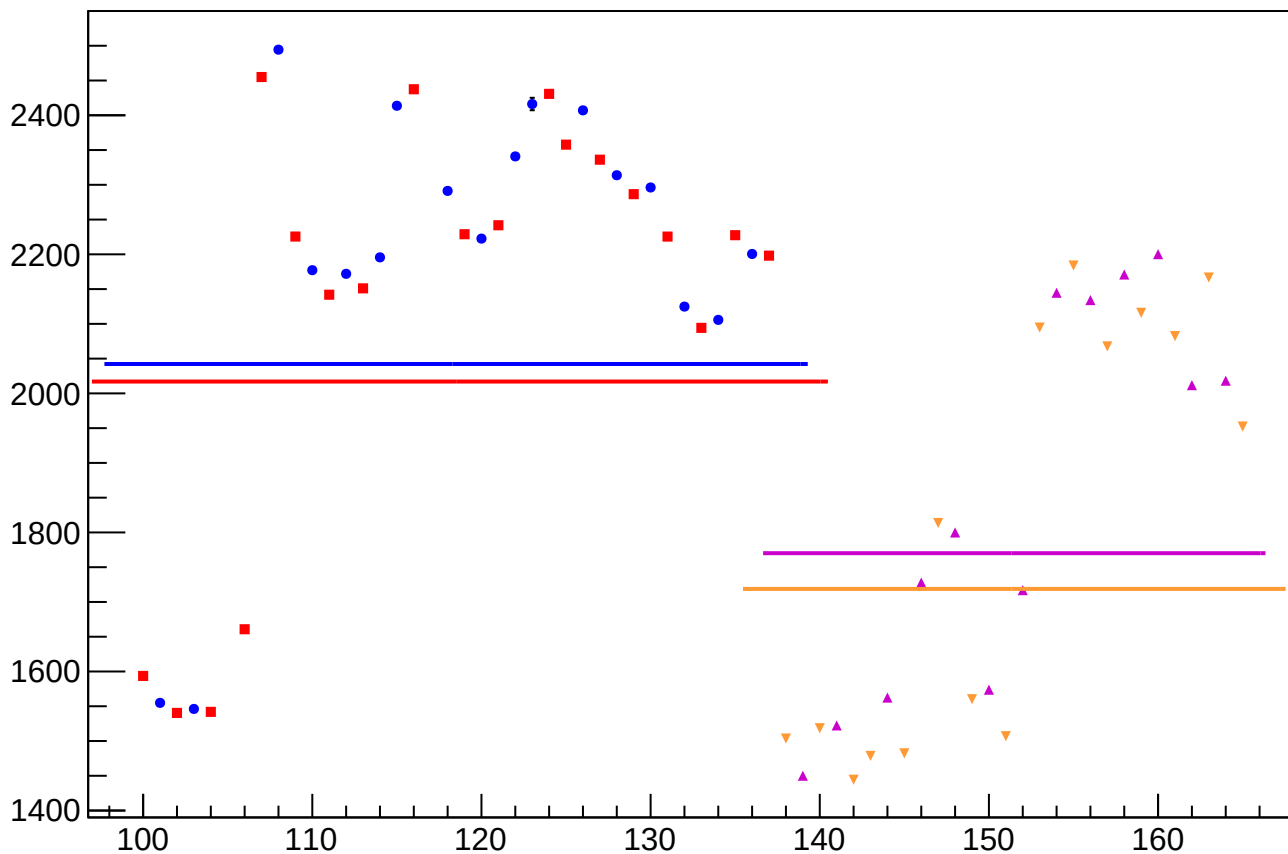
Out: 6215.707 $\pm$ 1.036 χ^2/NDF : 315514.8/33

All: 6240.576 $\pm$ 0.748 χ^2/NDF : 635346.7/63

diff_bpm0l05Y_mean vs Slug, Sign Corrected



diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2042.269 $\pm$ 0.563 χ^2/NDF : 356820.1/16

Left Out: 1718.759 $\pm$ 0.370 χ^2/NDF : 569873.9/14

Right Out: 2017.026 $\pm$ 0.541 χ^2/NDF : 375630.3/18

Left In: 1770.151 $\pm$ 0.395 χ^2/NDF : 424471.0/12

Left: 1742.769 $\pm$ 0.270 χ^2/NDF : 1003376.5/27

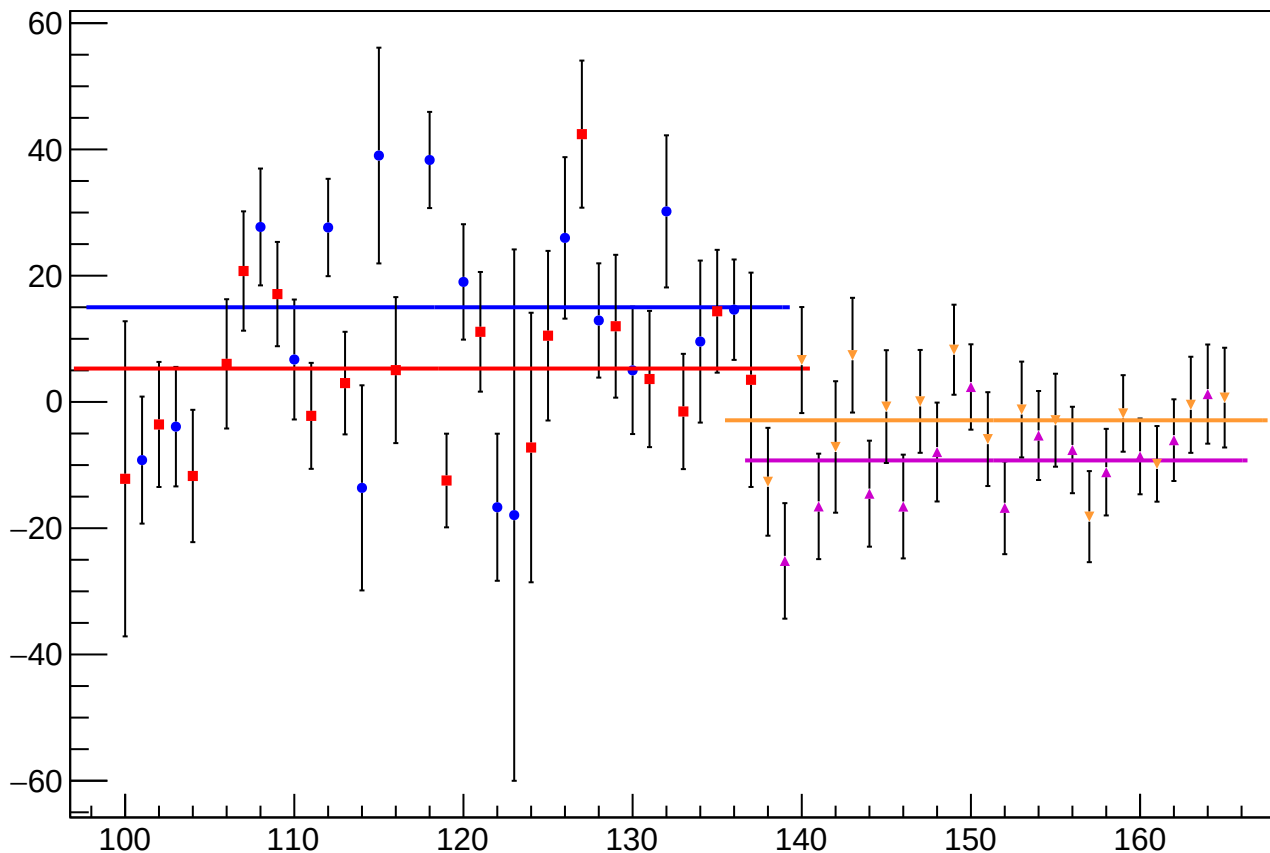
Right: 2029.129 $\pm$ 0.390 χ^2/NDF : 733495.1/35

In: 1859.734 $\pm$ 0.323 χ^2/NDF : 937744.1/29

Out: 1813.736 $\pm$ 0.305 χ^2/NDF : 1152851.1/33

All: 1835.409 $\pm$ 0.222 χ^2/NDF : 2101300.8/63

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.997 $\pm$ 2.485 χ^2 /NDF: 41.3/16

Left Out: -2.908 $\pm$ 1.969 χ^2 /NDF:13.1/14

Right Out: 5.291 $\pm$ 2.357 χ^2 /NDF: 28.1/18

Left In: -9.264 $\pm$ 2.030 χ^2 /NDF:11.5/12

Left: -5.988 $\pm$ 1.413 χ^2 /NDF: 29.6/27

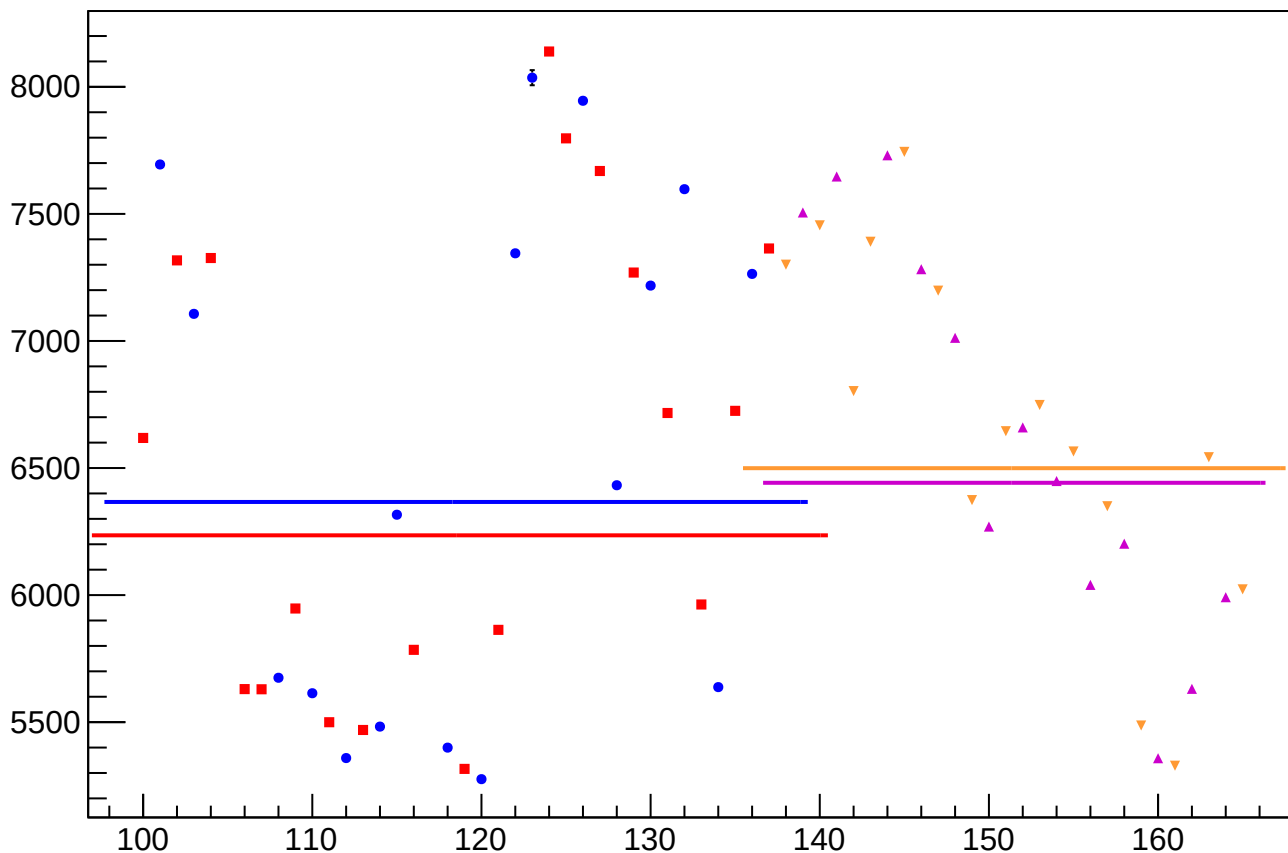
Right: 9.888 $\pm$ 1.710 χ^2 /NDF: 77.4/35

In: 0.447 $\pm$ 1.572 χ^2 /NDF:110.0/29

Out: 0.461 $\pm$ 1.511 χ^2 /NDF:48.2/33

All: 0.454 $\pm$ 1.090 χ^2 /NDF: 158.2/63

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491+/-1.757 χ^2/NDF : 286494.5/16

Left Out: 6499.388+/-1.392 χ^2/NDF : 262017.5/14

Right Out: 6235.179+/-1.667 χ^2/NDF : 243204.0/18

Left In: 6441.904+/-1.436 χ^2/NDF : 262939.5/12

Left: 6471.528+/-0.999 χ^2/NDF : 525783.2/27

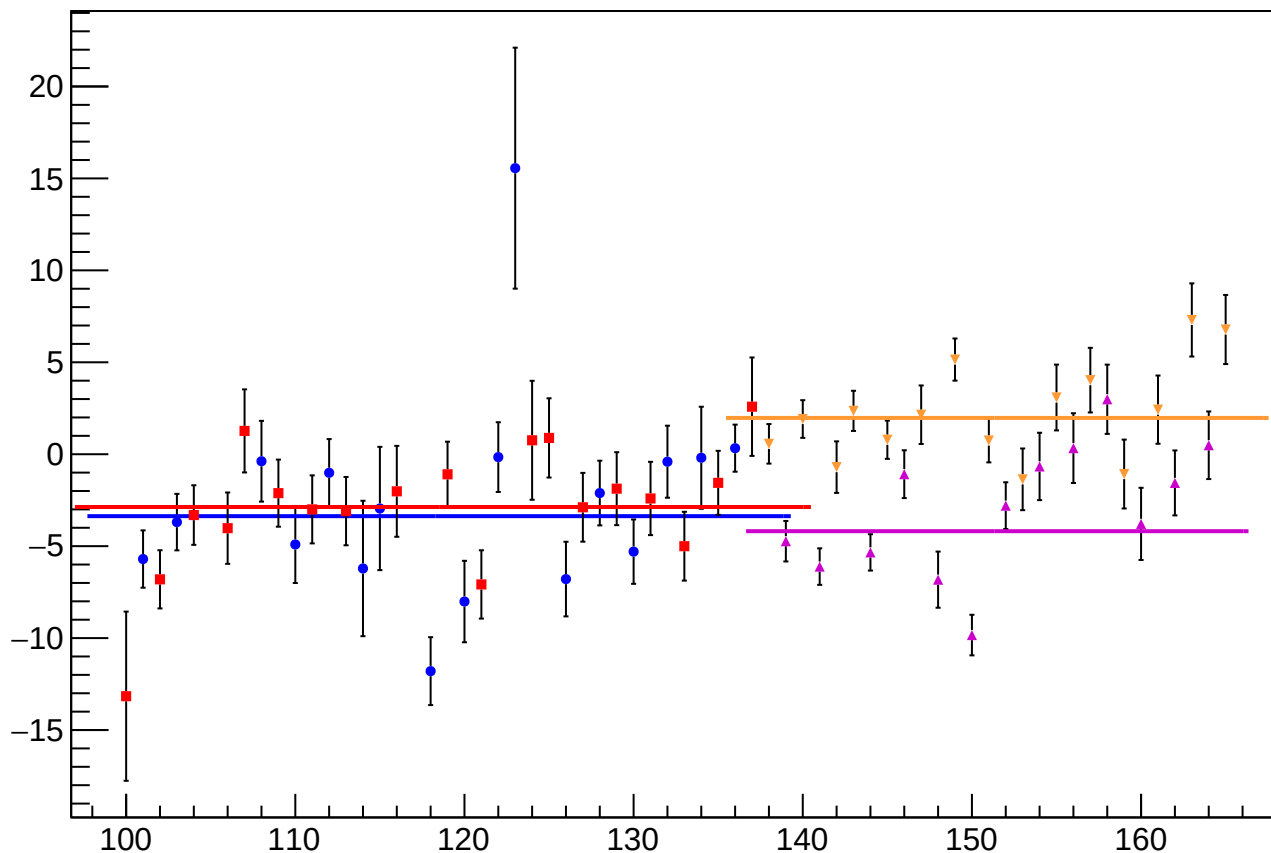
Right: 6297.369+/-1.209 χ^2/NDF : 532637.5/35

In: 6411.719+/-1.112 χ^2/NDF : 550538.5/29

Out: 6390.815+/-1.069 χ^2/NDF : 520020.2/33

All: 6400.852+/-0.770 χ^2/NDF : 1070742.4/63

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.368 ± 0.476 χ^2/NDF : 59.9/16

Left Out: 1.974 ± 0.352 χ^2/NDF : 37.7/14

Right Out: -2.871 ± 0.456 χ^2/NDF : 32.0/18

Left In: -4.186 ± 0.377 χ^2/NDF : 74.0/12

Left: -0.902 ± 0.257 χ^2/NDF : 254.4/27

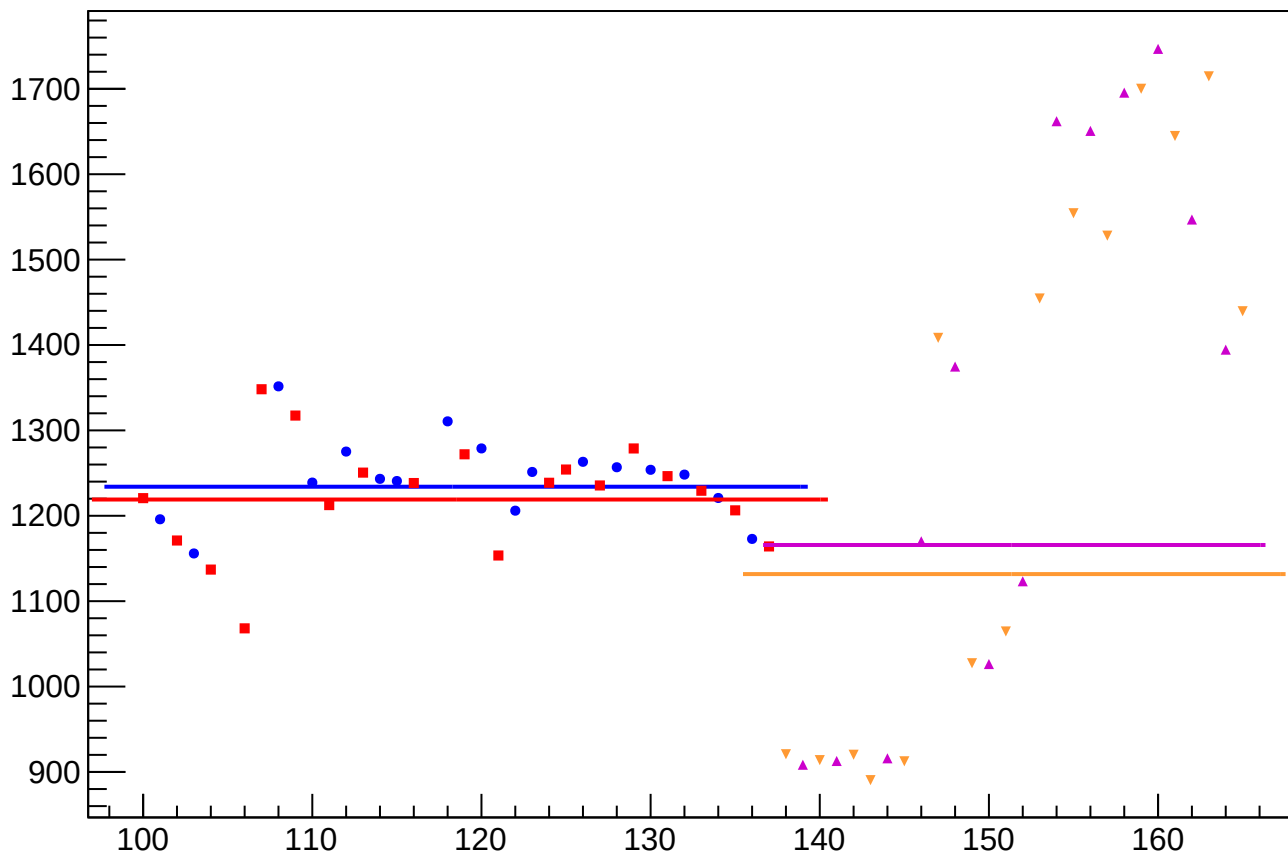
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -3.871 ± 0.295 χ^2/NDF : 135.7/29

Out: 0.165 ± 0.279 χ^2/NDF : 140.3/33

All: -1.739 ± 0.203 χ^2/NDF : 374.8/63

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Left: 1147.628 ± 0.182 $\chi^2/\text{NDF}: 2514850.8/27$

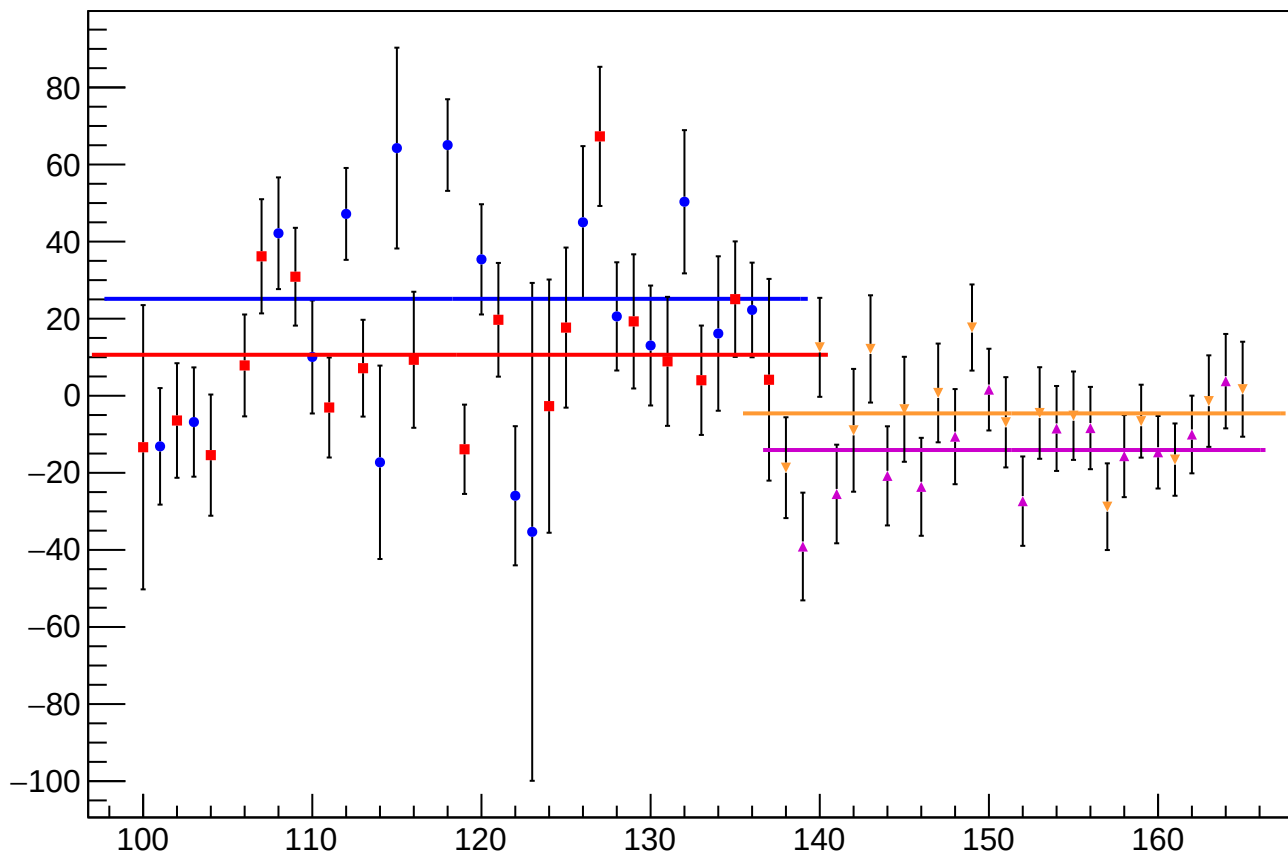
Right: 1226.229 ± 0.233 $\chi^2/\text{NDF}: 64970.2/35$

In: 1192.088 ± 0.209 $\chi^2/\text{NDF}: 1222130.2/29$

Out: 1164.329 ± 0.197 $\chi^2/\text{NDF}: 1419111.7/33$

All: 1177.421 ± 0.143 $\chi^2/\text{NDF}: 2650586.9/63$

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149 ± 3.837 $\chi^2/\text{NDF}: 46.9/16$

Left Out: -4.577 ± 3.063 $\chi^2/\text{NDF}: 15.3/14$

Right Out: 10.634 ± 3.595 $\chi^2/\text{NDF}: 27.7/18$

Left In: -14.078 ± 3.163 $\chi^2/\text{NDF}: 11.3/12$

Left: -9.176 ± 2.200 $\chi^2/\text{NDF}: 31.2/27$

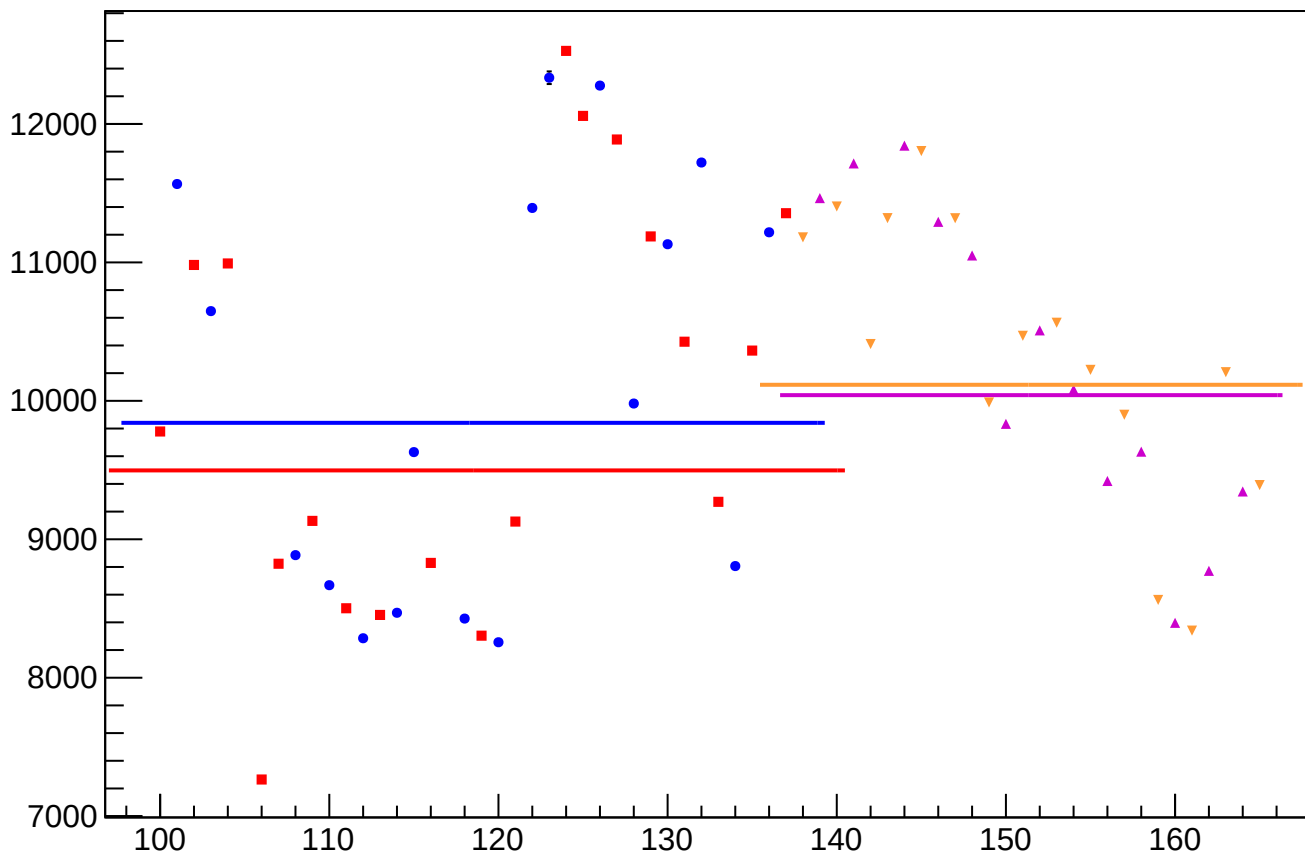
Right: 17.418 ± 2.623 $\chi^2/\text{NDF}: 82.3/35$

In: 1.788 ± 2.441 $\chi^2/\text{NDF}: 120.4/29$

Out: 1.821 ± 2.331 $\chi^2/\text{NDF}: 53.4/33$

All: 1.806 ± 1.686 $\chi^2/\text{NDF}: 173.8/63$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9841.174 ± 2.713 $\chi^2/\text{NDF}: 260062.4/16$

Left Out: 10116.031 ± 2.166 $\chi^2/\text{NDF}: 235898.5/14$

Right Out: 9497.483 ± 2.542 $\chi^2/\text{NDF}: 276700.1/18$

Left In: 10041.180 ± 2.236 $\chi^2/\text{NDF}: 240024.3/12$

Left: 10079.802 ± 1.556 $\chi^2/\text{NDF}: 476501.0/27$

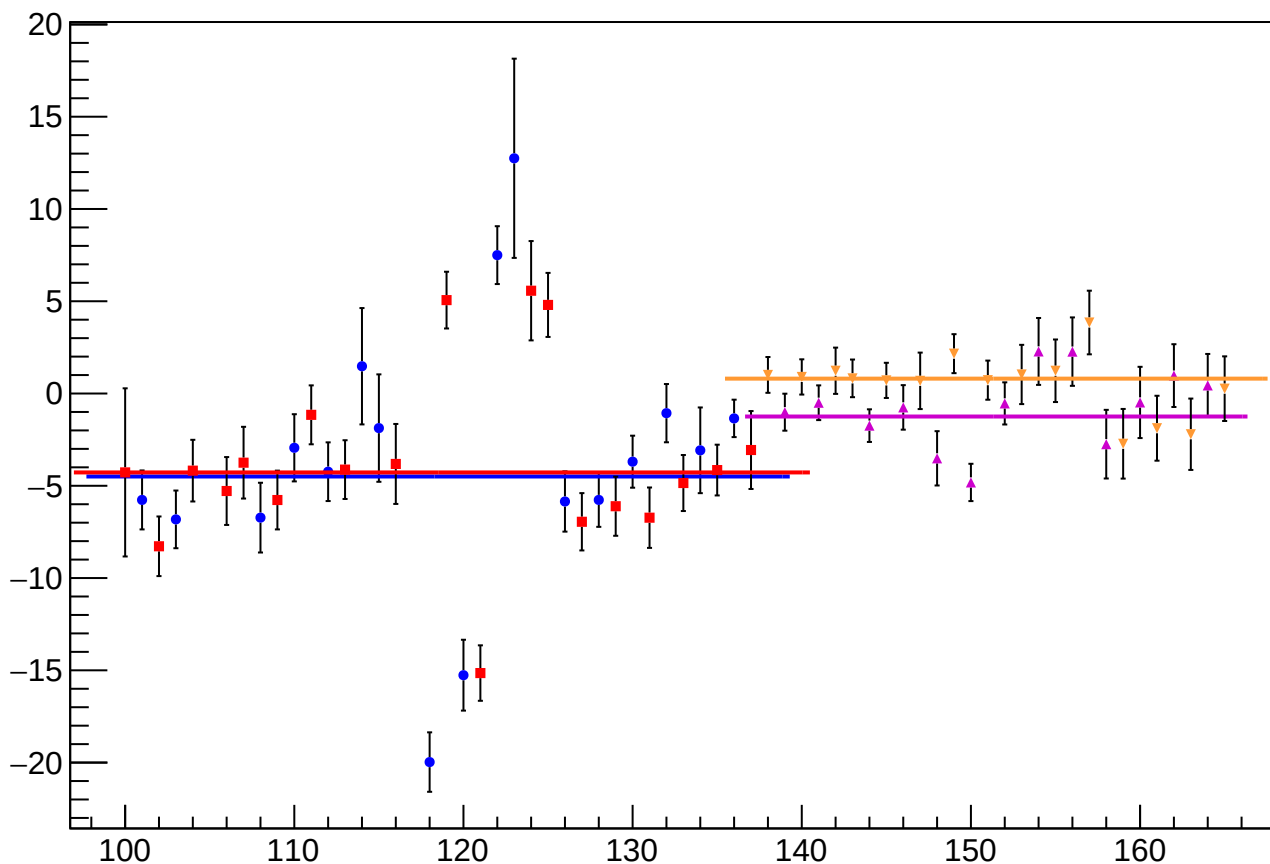
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

In: 9960.282 ± 1.726 $\chi^2/\text{NDF}: 503322.2/29$

Out: 9855.848 ± 1.649 $\chi^2/\text{NDF}: 546907.9/33$

All: 9905.678 ± 1.192 $\chi^2/\text{NDF}: 1052145.1/63$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.497 ± 0.408 χ^2/NDF : 218.4/16

Left Out: 0.806 ± 0.327 χ^2/NDF : 13.4/14

Right Out: -4.277 ± 0.394 χ^2/NDF : 148.2/18

Left In: -1.247 ± 0.350 χ^2/NDF : 27.3/12

Left: -0.150 ± 0.239 χ^2/NDF : 59.0/27

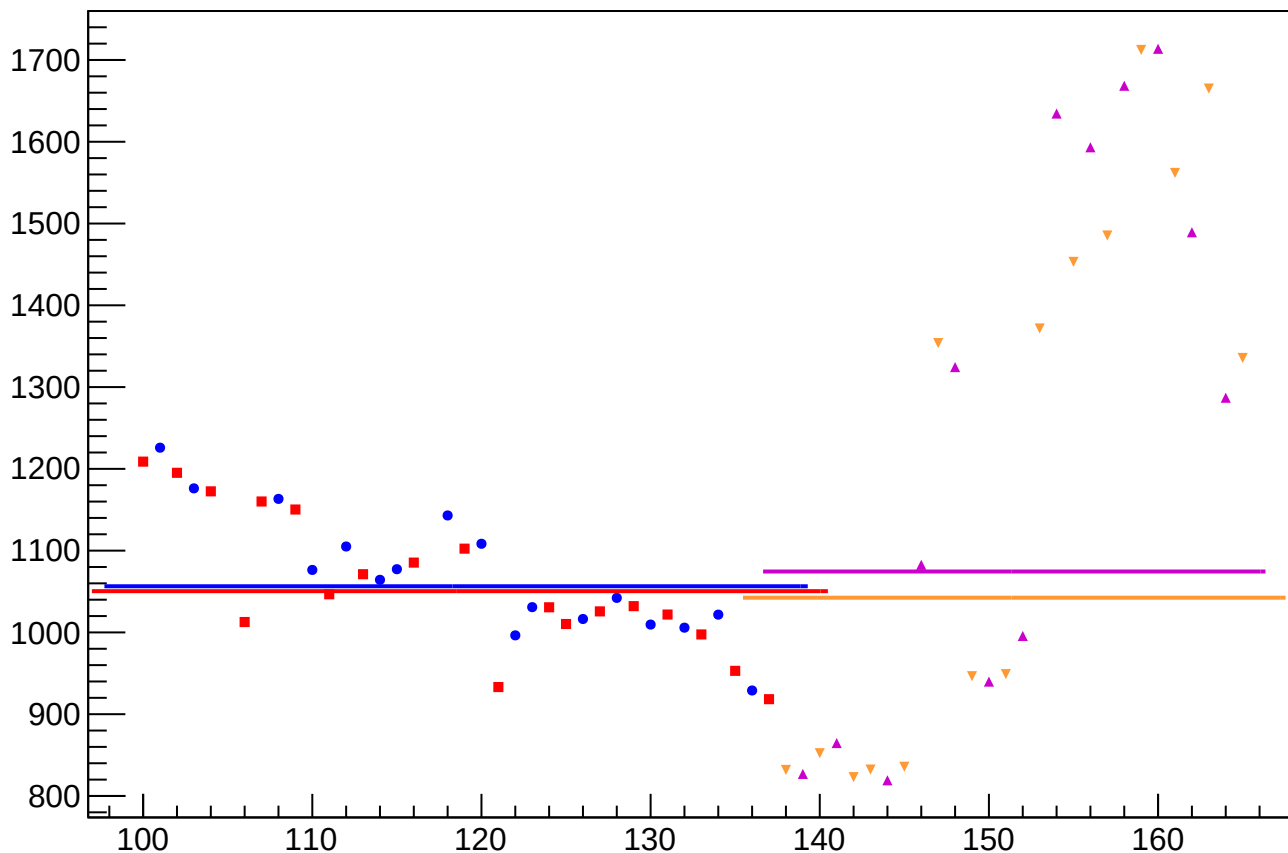
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -2.626 ± 0.266 χ^2/NDF : 282.2/29

Out: -1.269 ± 0.252 χ^2/NDF : 260.2/33

All: -1.910 ± 0.183 χ^2/NDF : 556.1/63

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.436 $\pm$ 0.289 χ^2 /NDF: 90773.0/16

Left Out: 1042.465 $\pm$ 0.231 χ^2 /NDF:1551878.5/14

Right Out: 1050.443 $\pm$ 0.279 χ^2 /NDF: 82396.5/18

Left In: 1074.477 $\pm$ 0.248 χ^2 /NDF:1411643.3/12

Left: 1057.373 $\pm$ 0.169 χ^2 /NDF: 2972436.6/27

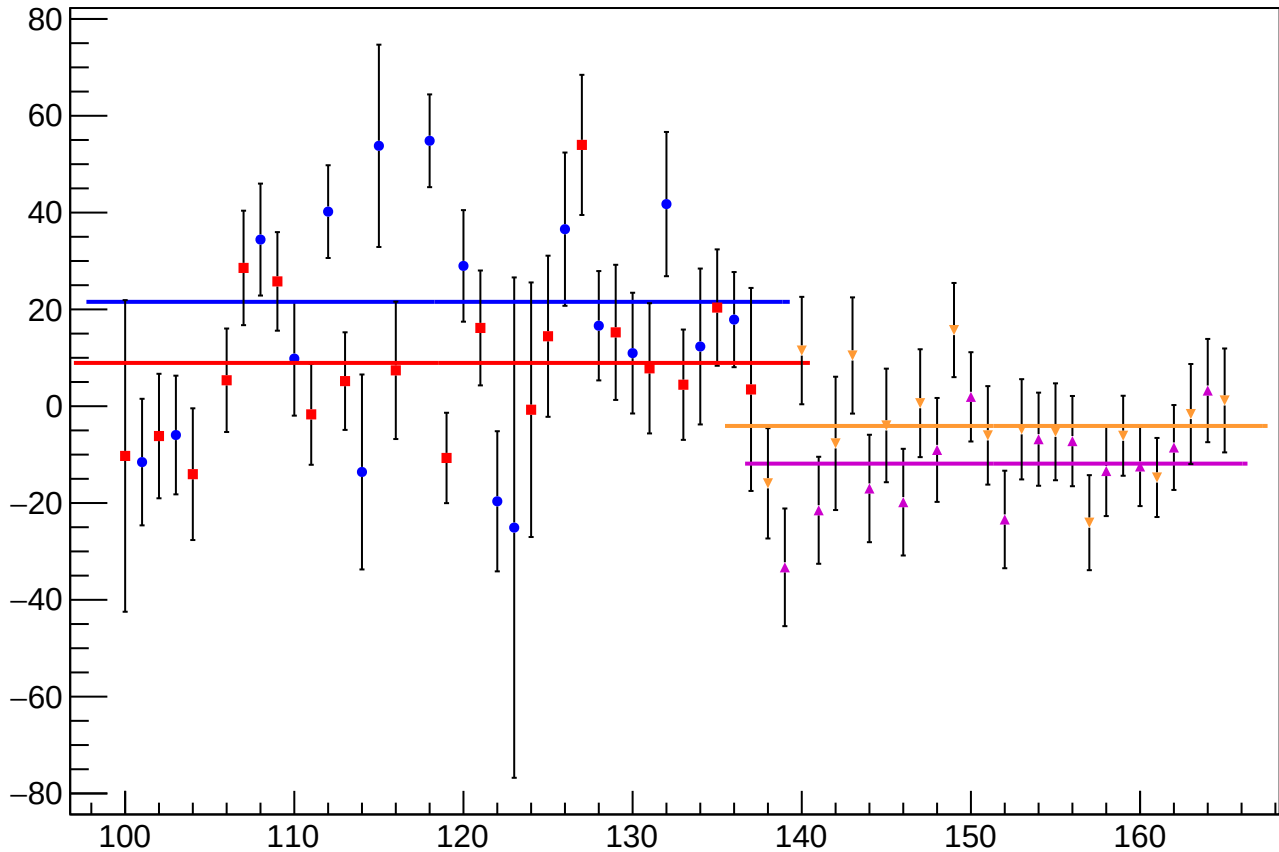
Right: 1053.333 $\pm$ 0.200 χ^2 /NDF: 173392.8/35

In: 1066.820 $\pm$ 0.188 χ^2 /NDF:1504665.4/29

Out: 1045.722 $\pm$ 0.178 χ^2 /NDF:1634760.6/33

All: 1055.693 $\pm$ 0.129 χ^2 /NDF: 3146066.7/63

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561+/-3.110 χ^2/NDF : 48.4/16

Left Out: -4.078+/-2.664 χ^2/NDF : 15.2/14

Right Out: 8.943+/-2.912 χ^2/NDF : 27.4/18

Left In: -11.864+/-2.751 χ^2/NDF : 10.9/12

Left: -7.846+/-1.914 χ^2/NDF : 30.2/27

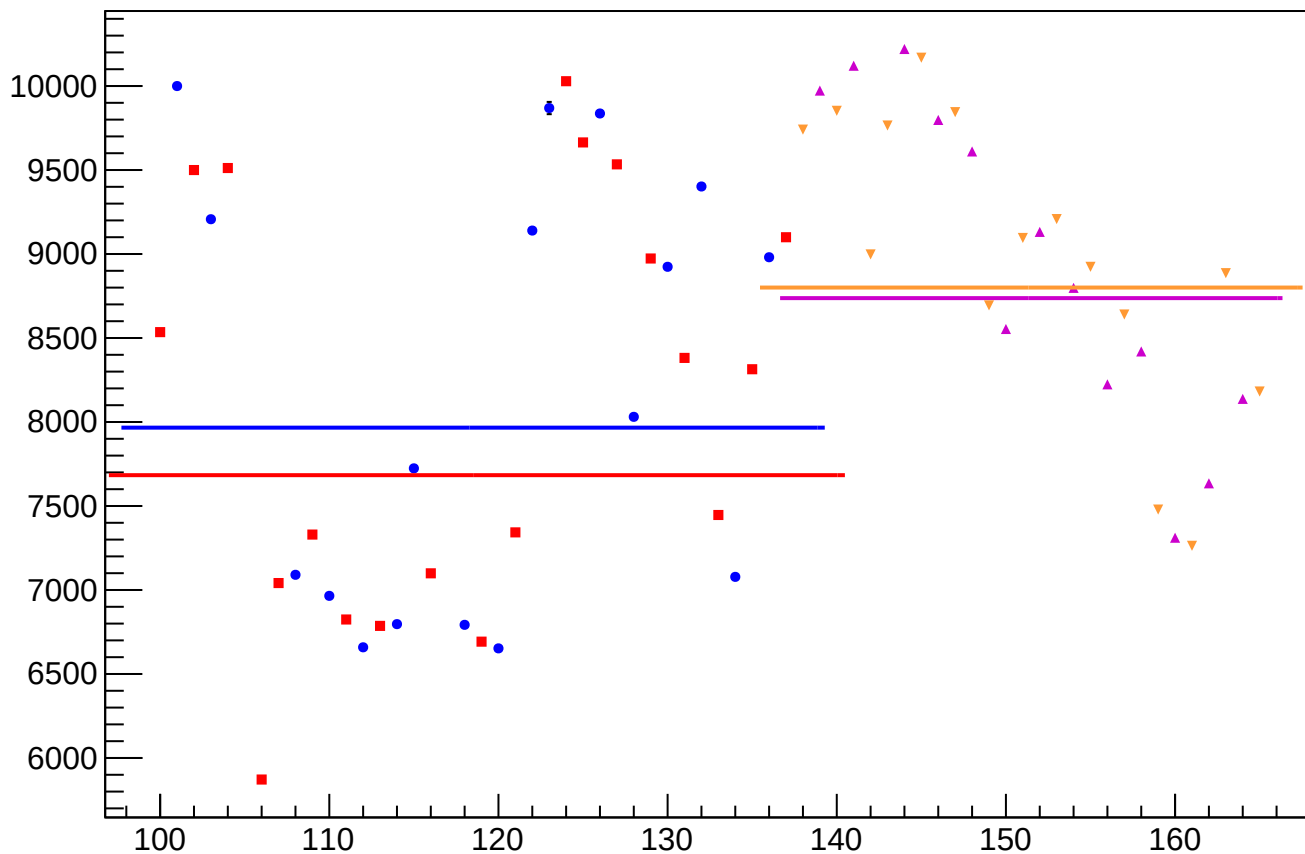
Right: 14.837+/-2.126 χ^2/NDF : 84.6/35

In: 2.807+/-2.061 χ^2/NDF : 124.1/29

Out: 1.854+/-1.965 χ^2/NDF : 53.5/33

All: 2.308+/-1.422 χ^2/NDF : 177.7/63

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.405 ± 2.199 $\chi^2/\text{NDF}: 296611.1/16$

Left Out: 8800.339 ± 1.884 $\chi^2/\text{NDF}: 224313.0/14$

Right Out: 7683.479 ± 2.059 $\chi^2/\text{NDF}: 315033.7/18$

Left In: 8737.390 ± 1.945 $\chi^2/\text{NDF}: 230337.8/12$

Left: 8769.878 ± 1.353 $\chi^2/\text{NDF}: 455191.2/27$

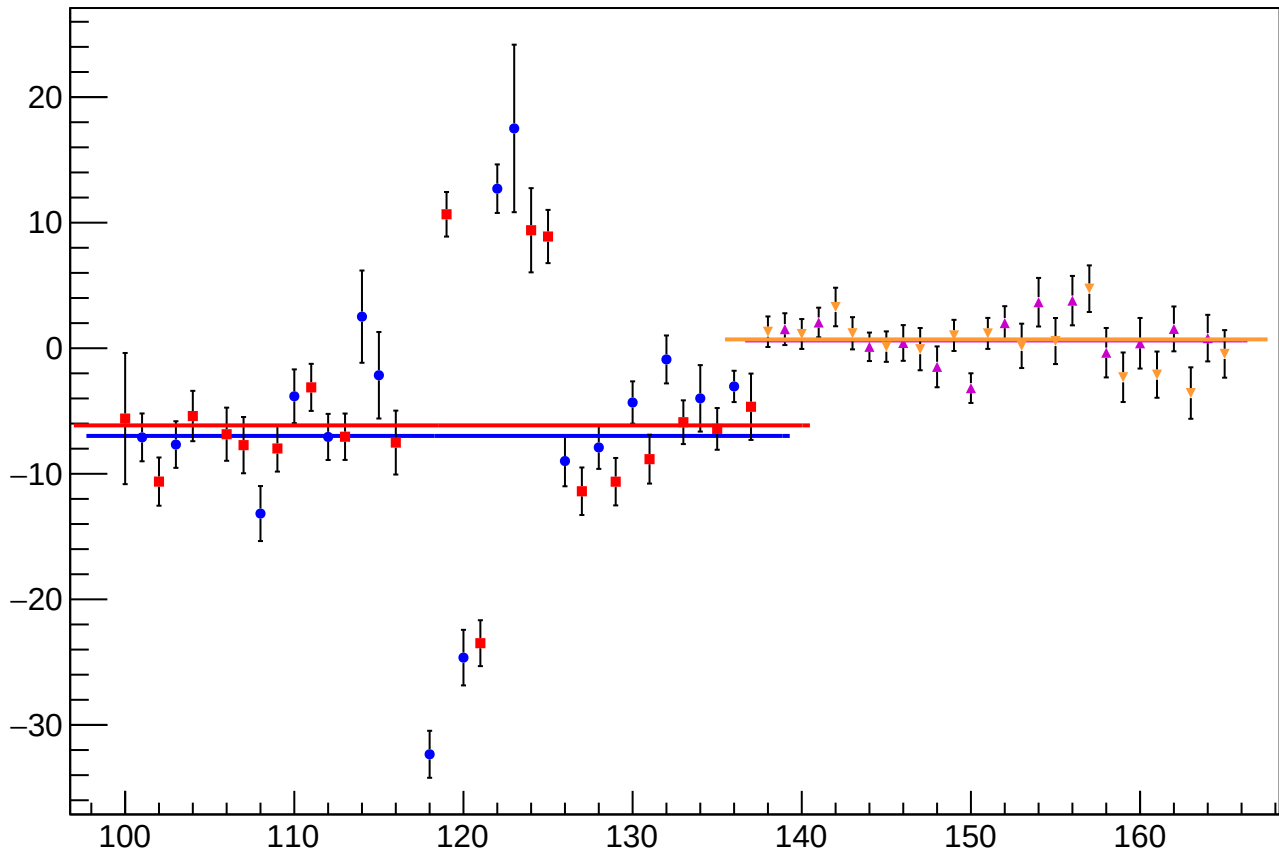
Right: 7815.627 ± 1.503 $\chi^2/\text{NDF}: 620463.8/35$

In: 8398.997 ± 1.457 $\chi^2/\text{NDF}: 595898.9/29$

Out: 8291.514 ± 1.390 $\chi^2/\text{NDF}: 699528.8/33$

All: 8342.716 ± 1.006 $\chi^2/\text{NDF}: 1298277.1/63$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.984 ± 0.486 χ^2/NDF : 408.5/16

Left Out: 0.702 ± 0.385 χ^2/NDF : 18.2/14

Right Out: -6.145 ± 0.467 χ^2/NDF : 277.5/18

Left In: 0.622 ± 0.412 χ^2/NDF : 20.9/12

Left: 0.665 ± 0.281 χ^2/NDF : 39.1/27

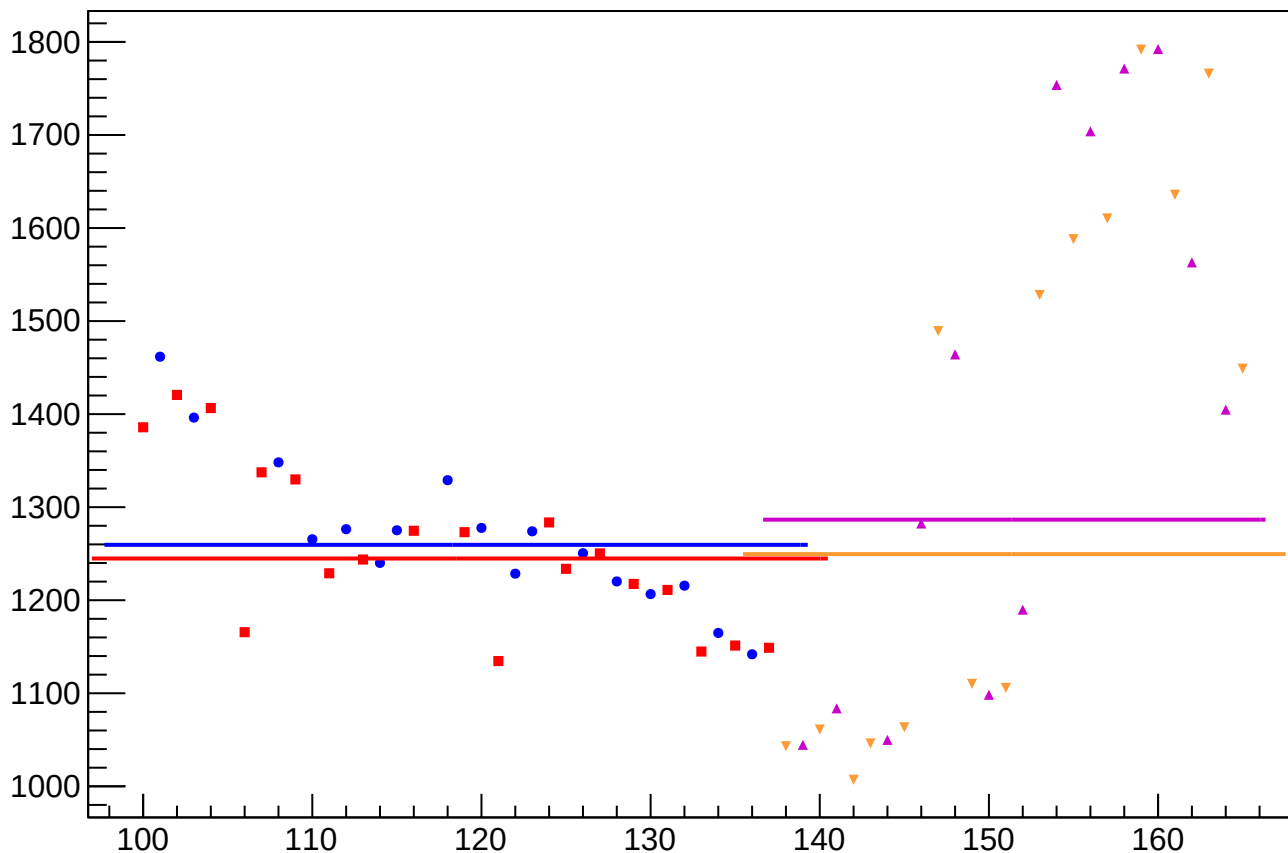
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -2.556 ± 0.314 χ^2/NDF : 571.8/29

Out: -2.075 ± 0.297 χ^2/NDF : 423.7/33

All: -2.302 ± 0.216 χ^2/NDF : 996.8/63

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.531 $\pm$ 0.344 χ^2/NDF : 64844.4/16

Left Out: 1249.557 $\pm$ 0.273 χ^2/NDF : 929788.6/14

Right Out: 1244.837 $\pm$ 0.330 χ^2/NDF : 66826.0/18

Left In: 1286.594 $\pm$ 0.291 χ^2/NDF : 814197.7/12

Left: 1266.847 $\pm$ 0.199 χ^2/NDF : 1752606.5/27

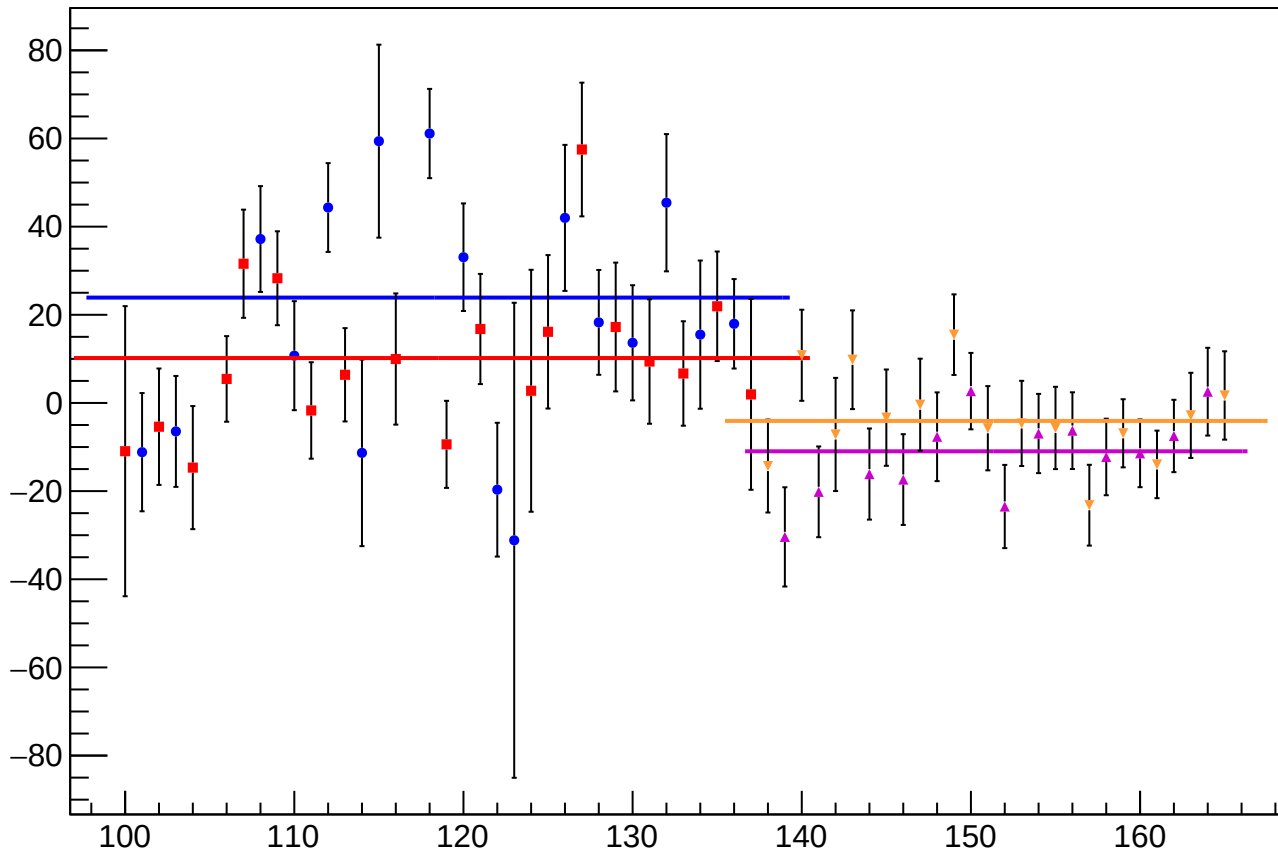
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

In: 1275.285 $\pm$ 0.222 χ^2/NDF : 882649.6/29

Out: 1247.643 $\pm$ 0.210 χ^2/NDF : 996736.2/33

All: 1260.691 $\pm$ 0.153 χ^2/NDF : 1887553.7/63

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.904 $\pm$ 3.251 χ^2 /NDF: 52.4/16

Left Out: -4.078 $\pm$ 2.489 χ^2 /NDF:15.9/14

Right Out: 10.190 $\pm$ 3.006 χ^2 /NDF: 27.9/18

Left In: -10.969 $\pm$ 2.572 χ^2 /NDF:11.3/12

Left: -7.411 $\pm$ 1.789 χ^2 /NDF: 30.9/27

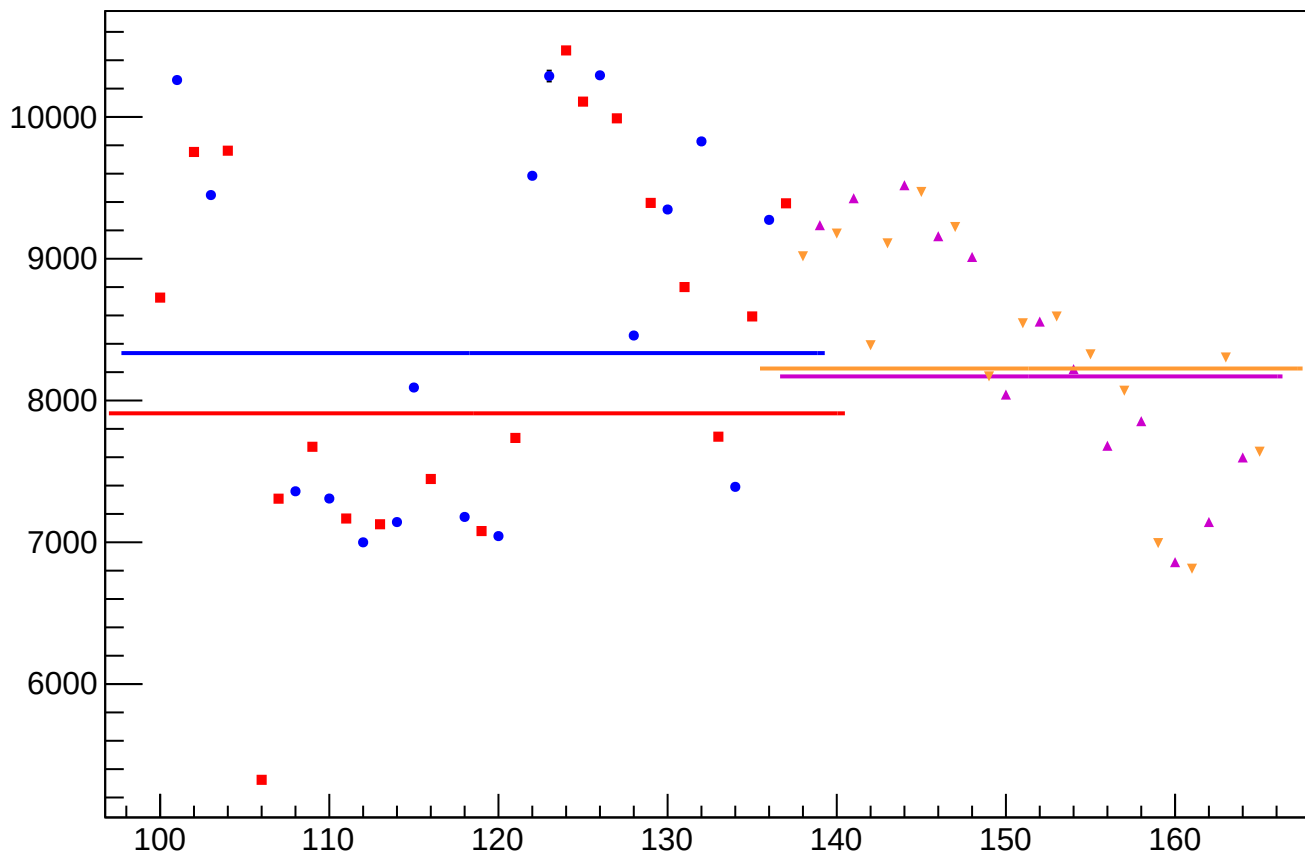
Right: 16.511 $\pm$ 2.207 χ^2 /NDF: 90.0/35

In: 2.456 $\pm$ 2.017 χ^2 /NDF:134.5/29

Out: 1.727 $\pm$ 1.917 χ^2 /NDF:57.2/33

All: 2.073 $\pm$ 1.390 χ^2 /NDF: 191.8/63

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.507+/-2.299 χ^2/NDF : 272302.6/16

Left Out: 8225.733+/-1.760 χ^2/NDF : 216916.4/14

Right Out: 7909.620+/-2.125 χ^2/NDF : 390819.3/18

Left In: 8169.981+/-1.818 χ^2/NDF : 223124.5/12

Left: 8198.764+/-1.265 χ^2/NDF : 440526.2/27

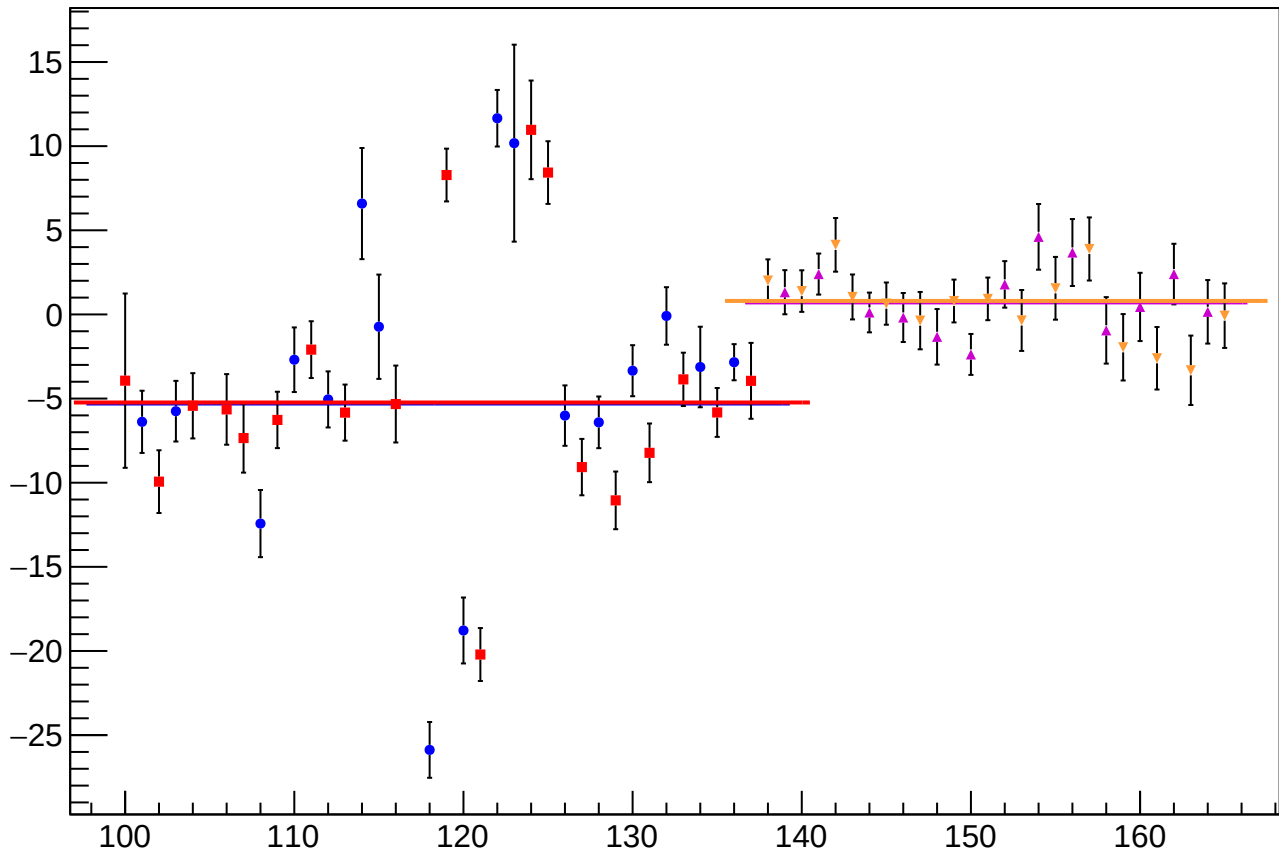
Right: 8105.450+/-1.560 χ^2/NDF : 681543.4/35

In: 8233.315+/-1.426 χ^2/NDF : 498578.4/29

Out: 8097.120+/-1.356 χ^2/NDF : 620858.2/33

All: 8161.769+/-0.983 χ^2/NDF : 1124227.9/63

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.295 ± 0.437 χ^2/NDF : 358.1/16

Left Out: 0.802 ± 0.395 χ^2/NDF : 18.9/14

Right Out: -5.233 ± 0.422 χ^2/NDF : 281.9/18

Left In: 0.714 ± 0.422 χ^2/NDF : 19.2/12

Left: 0.761 ± 0.289 χ^2/NDF : 38.1/27

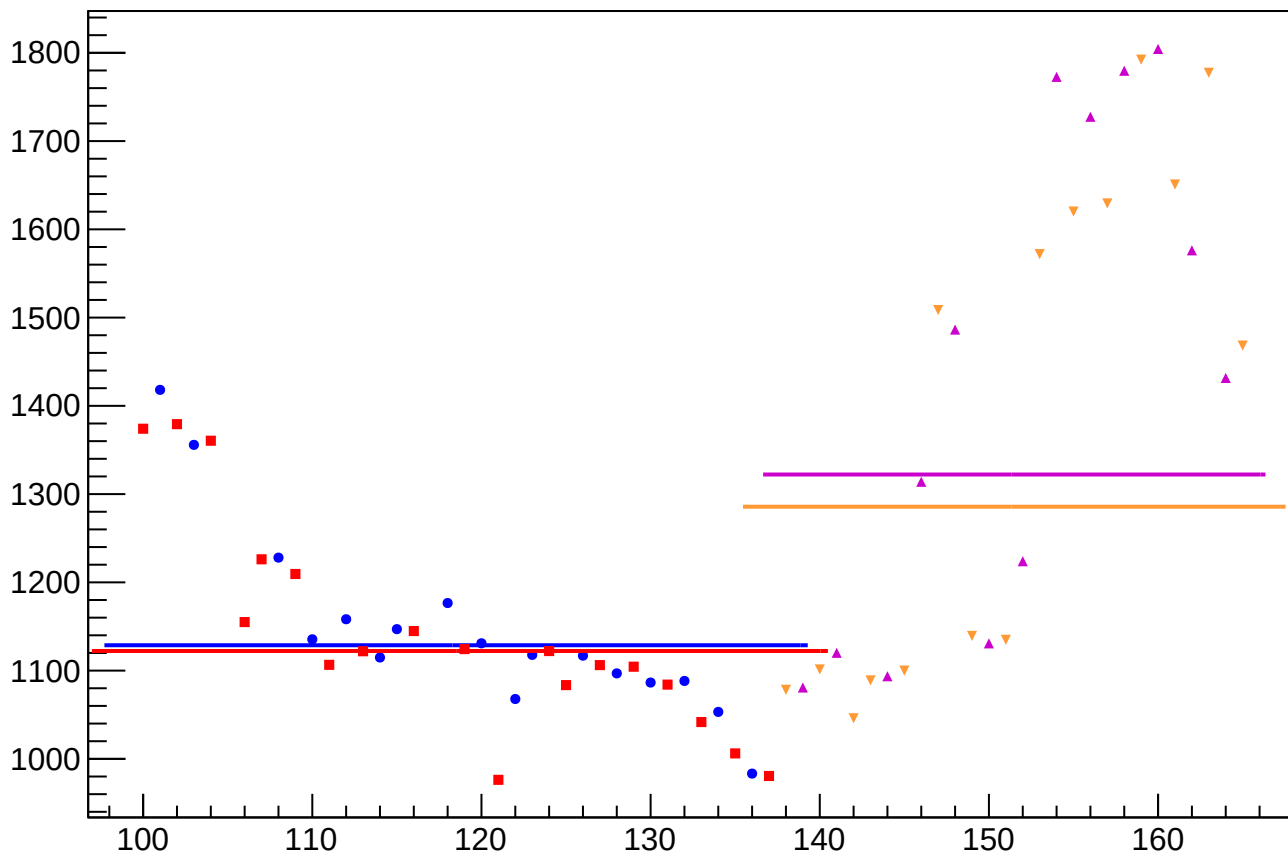
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -2.188 ± 0.304 χ^2/NDF : 475.2/29

Out: -2.022 ± 0.288 χ^2/NDF : 409.7/33

All: -2.101 ± 0.209 χ^2/NDF : 885.1/63

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.740 $\pm$ 0.309 χ^2 /NDF: 133096.9/16

Left Out: 1285.712 $\pm$ 0.280 χ^2 /NDF: 843003.0/14

Right Out: 1122.238 $\pm$ 0.298 χ^2 /NDF: 129601.6/18

Left In: 1322.190 $\pm$ 0.298 χ^2 /NDF: 733590.7/12

Left: 1302.763 $\pm$ 0.204 χ^2 /NDF: 1584548.4/27

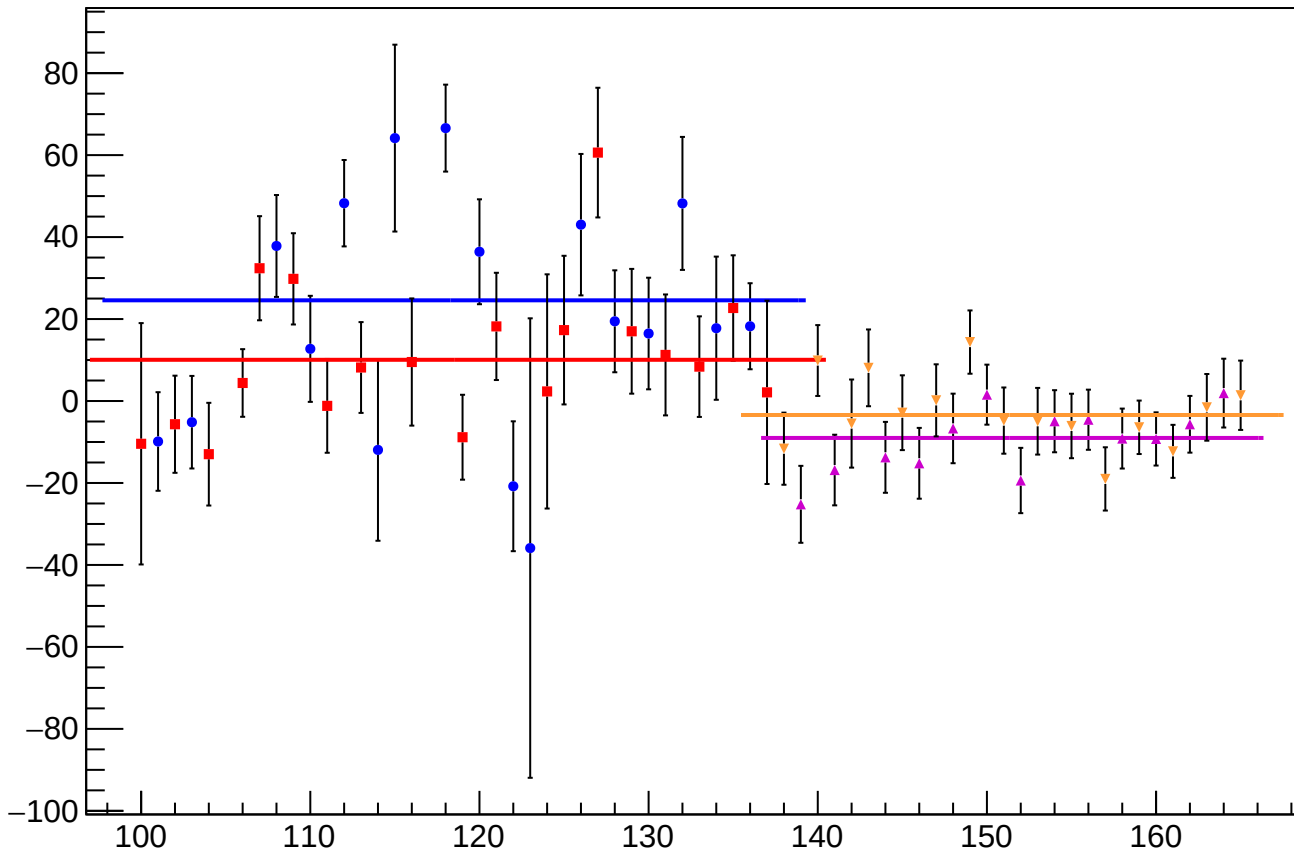
Right: 1125.374 $\pm$ 0.215 χ^2 /NDF: 262927.9/35

In: 1228.783 $\pm$ 0.215 χ^2 /NDF: 1069521.1/29

Out: 1209.211 $\pm$ 0.204 χ^2 /NDF: 1132543.4/33

All: 1218.498 $\pm$ 0.148 χ^2 /NDF: 2206433.9/63

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.569+/-3.318 χ^2/NDF : 58.1/16

Left Out: -3.412+/-2.094 χ^2/NDF : 17.0/14

Right Out: 10.057+/-3.008 χ^2/NDF : 28.8/18

Left In: -9.011+/-2.165 χ^2/NDF : 11.1/12

Left: -6.119+/-1.505 χ^2/NDF : 31.5/27

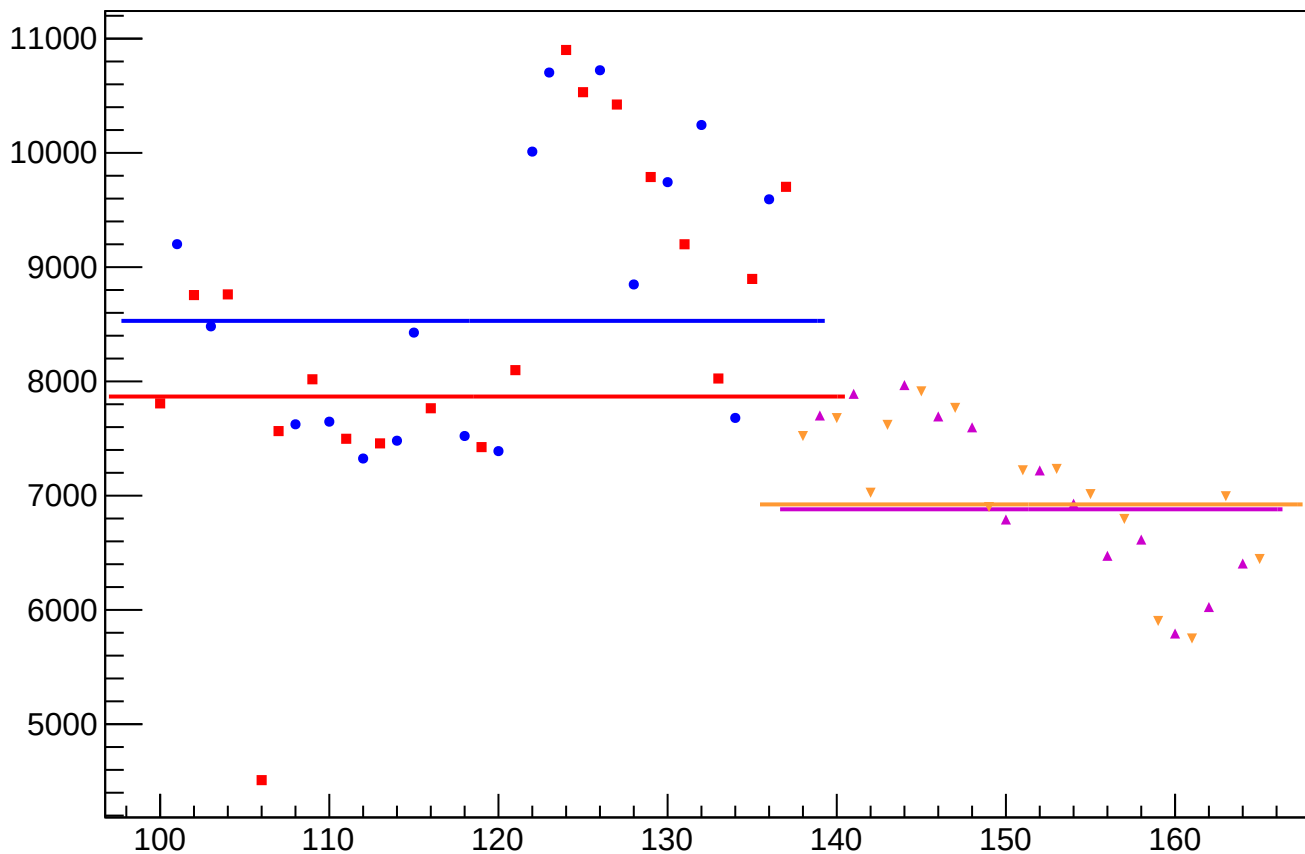
Right: 16.602+/-2.229 χ^2/NDF : 97.4/35

In: 1.015+/-1.813 χ^2/NDF : 141.0/29

Out: 0.987+/-1.719 χ^2/NDF : 59.3/33

All: 1.000+/-1.247 χ^2/NDF : 200.3/63

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.821 $\pm$ 2.346 χ^2/NDF : 208336.1/16

Left Out: 6923.464 $\pm$ 1.481 χ^2/NDF :205498.5/14

Right Out: 7867.584 $\pm$ 2.127 χ^2/NDF : 555841.7/18

Left In: 6880.562 $\pm$ 1.531 χ^2/NDF :212249.7/12

Left: 6902.722 $\pm$ 1.064 χ^2/NDF : 418154.0/27

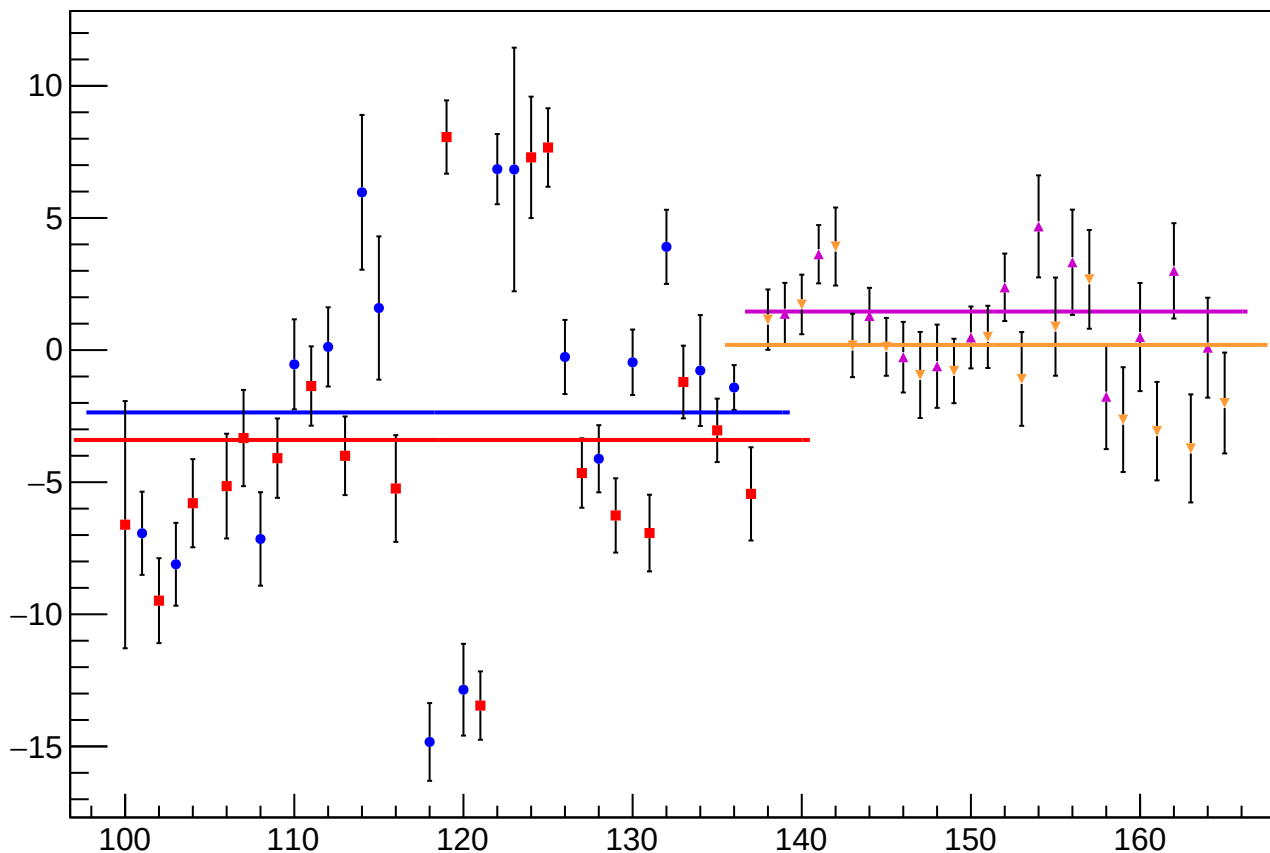
Right: 8166.253 $\pm$ 1.576 χ^2/NDF : 807907.7/35

In: 7372.962 $\pm$ 1.282 χ^2/NDF :767123.1/29

Out: 7231.788 $\pm$ 1.215 χ^2/NDF :894055.7/33

All: 7298.605 $\pm$ 0.882 χ^2/NDF : 1667564.8/63

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.360 ± 0.366 $\chi^2/\text{NDF}: 232.0/16$

Left Out: 0.196 ± 0.371 $\chi^2/\text{NDF}: 22.7/14$

Right Out: -3.401 ± 0.358 $\chi^2/\text{NDF}: 241.4/18$

Left In: 1.458 ± 0.397 $\chi^2/\text{NDF}: 16.3/12$

Left: 0.784 ± 0.271 $\chi^2/\text{NDF}: 44.3/27$

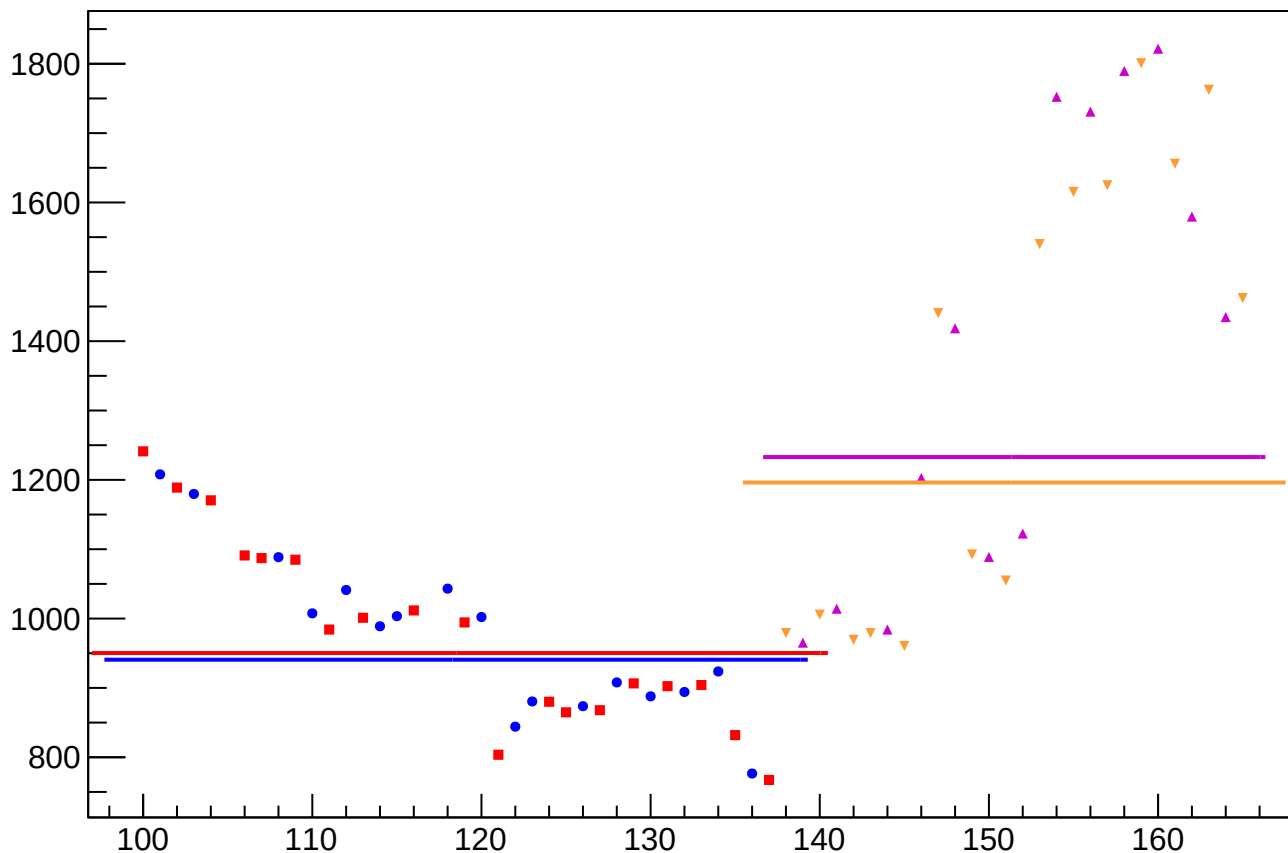
Right: -2.891 ± 0.256 $\chi^2/\text{NDF}: 477.6/35$

In: -0.609 ± 0.269 $\chi^2/\text{NDF}: 298.3/29$

Out: -1.666 ± 0.258 $\chi^2/\text{NDF}: 312.7/33$

All: -1.160 ± 0.186 $\chi^2/\text{NDF}: 619.1/63$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.683 $\pm$ 0.258 χ^2 /NDF: 241768.4/16

Left Out: 1196.215 $\pm$ 0.262 χ^2 /NDF:1204904.0/14

Right Out: 950.316 $\pm$ 0.253 χ^2 /NDF: 220678.1/18

Left In: 1232.919 $\pm$ 0.281 χ^2 /NDF:1056592.5/12

Left: 1213.327 $\pm$ 0.192 χ^2 /NDF: 2270618.5/27

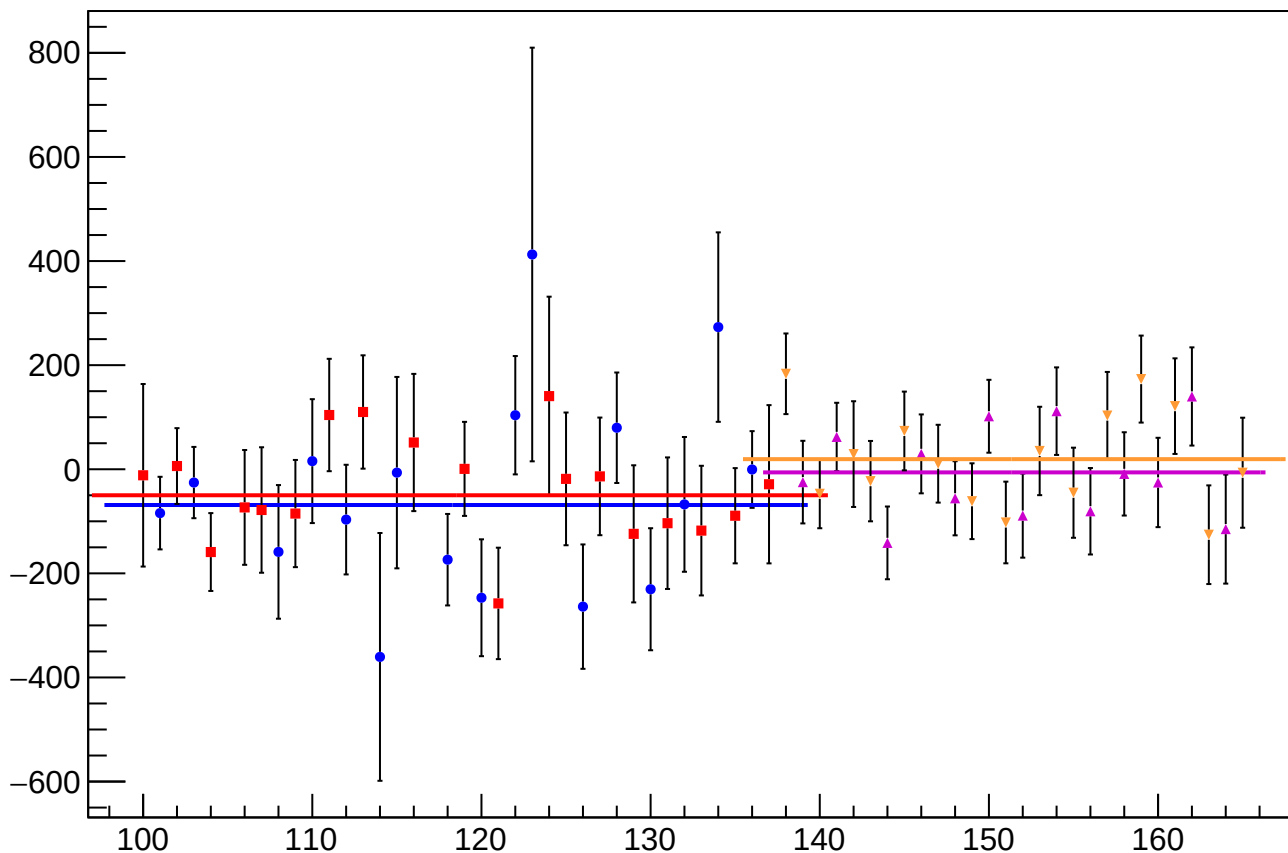
Right: 945.597 $\pm$ 0.181 χ^2 /NDF: 463155.1/35

In: 1074.740 $\pm$ 0.190 χ^2 /NDF:1884718.2/29

Out: 1068.918 $\pm$ 0.182 χ^2 /NDF:1880190.0/33

All: 1071.705 $\pm$ 0.132 χ^2 /NDF: 3765396.7/63

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 $\pm$ 25.946 χ^2/NDF : 21.8/16

Left Out: 19.412 $\pm$ 21.122 χ^2/NDF : 18.6/14

Right Out: -49.958 $\pm$ 25.020 χ^2/NDF : 14.0/18

Left In: -6.016 $\pm$ 21.788 χ^2/NDF : 15.3/12

Left: 7.092 $\pm$ 15.166 χ^2/NDF : 34.6/27

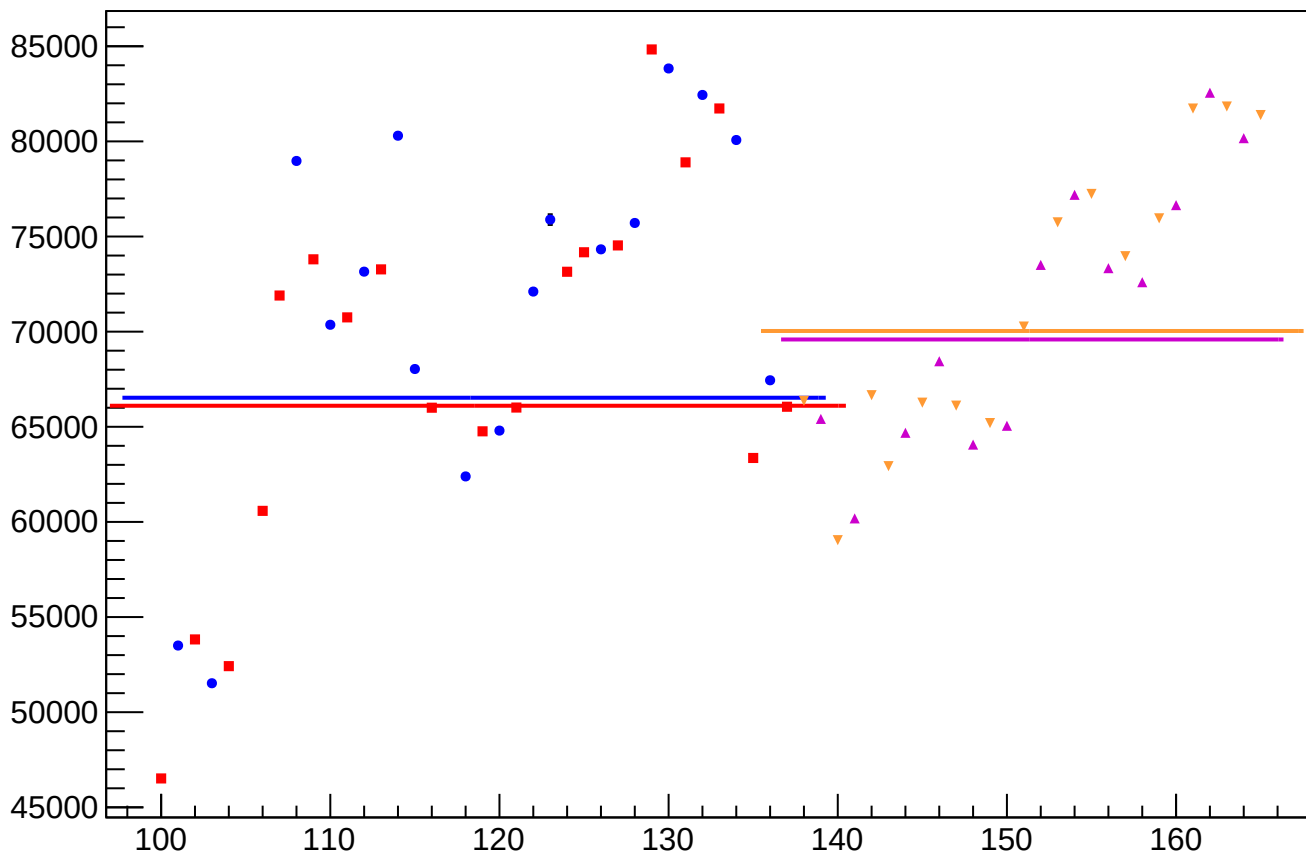
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -31.934 $\pm$ 16.685 χ^2/NDF : 40.5/29

Out: -9.456 $\pm$ 16.140 χ^2/NDF : 37.1/33

All: -20.322 $\pm$ 11.601 χ^2/NDF : 78.5/63

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251+/-18.347

χ^2/NDF : 320887.2/16

Left: 69819.145+/-10.724

χ^2/NDF : 399452.1/27

Left Out: 70035.588+/-14.936

χ^2/NDF : 221910.7/14

Right: 66308.894+/-12.735

χ^2/NDF : 619646.0/35

Right Out: 66105.849+/-17.692

χ^2/NDF : 298485.4/18

In: 68322.733+/-11.798

χ^2/NDF : 514326.5/29

Out: 68400.270+/-11.413

χ^2/NDF : 549203.6/33

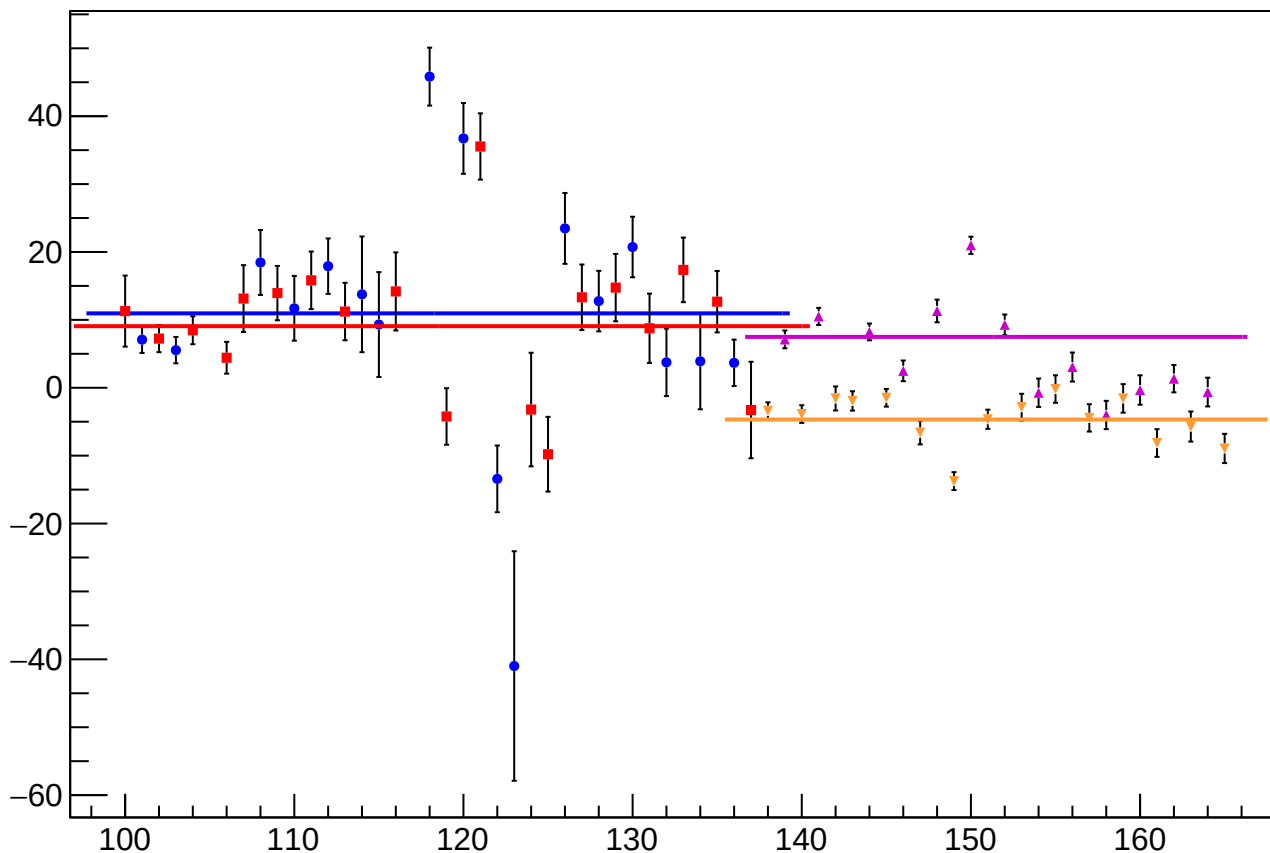
Left In: 69588.850+/-15.406

χ^2/NDF : 177108.0/12

All: 68362.789+/-8.203

χ^2/NDF : 1063552.5/6

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 ± 0.943 χ^2/NDF : 160.9/16

Left Out: -4.678 ± 0.420 χ^2/NDF : 78.0/14

Right Out: 9.072 ± 0.866 χ^2/NDF : 73.1/18

Left In: 7.493 ± 0.444 χ^2/NDF : 223.6/12

Left: 1.067 ± 0.305 χ^2/NDF : 698.0/27

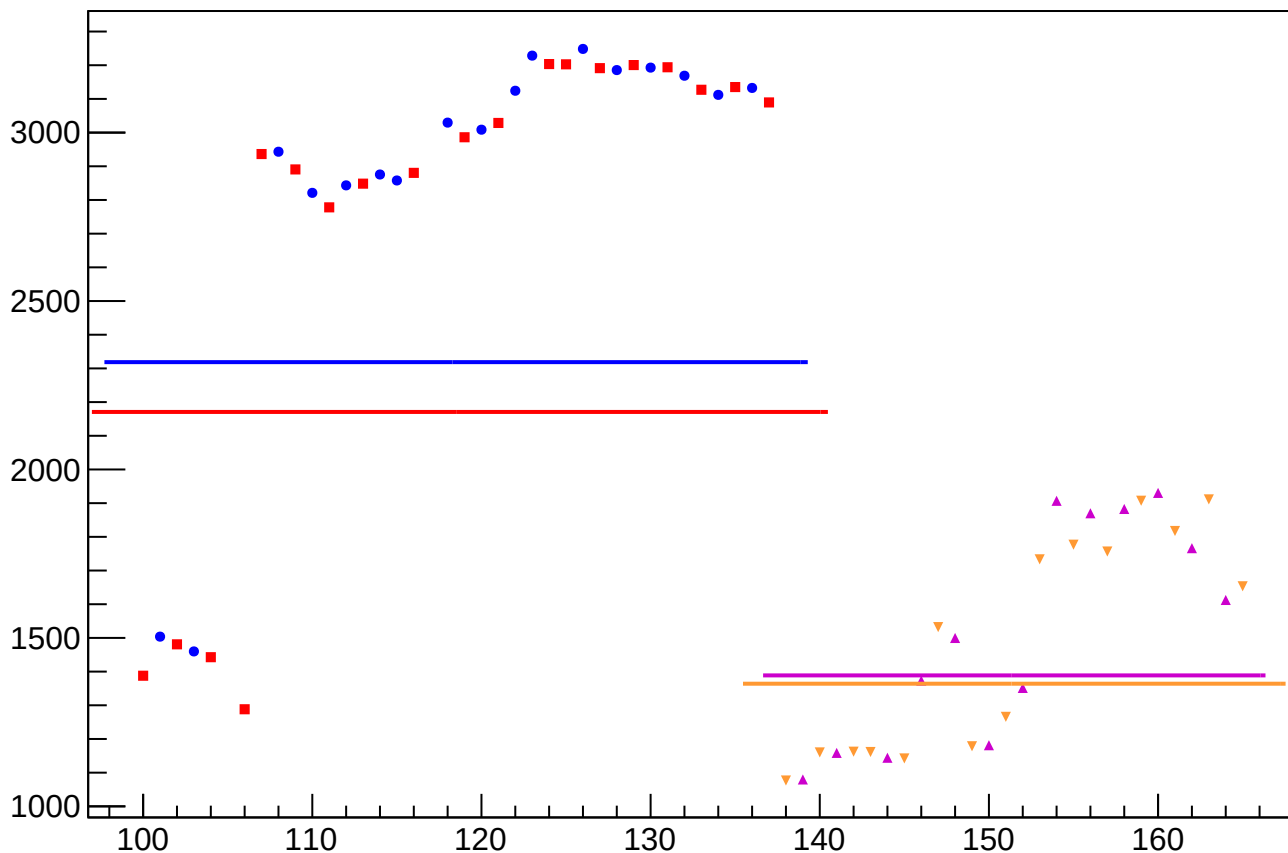
Right: 9.935 ± 0.638 χ^2/NDF : 236.2/35

In: 8.122 ± 0.402 χ^2/NDF : 395.5/29

Out: -2.062 ± 0.378 χ^2/NDF : 355.0/33

All: 2.718 ± 0.275 χ^2/NDF : 1091.5/63

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624 $\pm$ 0.667 χ^2 /NDF: 1408300.4/16

Left Out: 1364.052 $\pm$ 0.297 χ^2 /NDF: 966072.7/14

Right Out: 2170.786 $\pm$ 0.613 χ^2 /NDF: 1753687.8/18

Left In: 1388.724 $\pm$ 0.314 χ^2 /NDF: 873853.6/12

Left: 1375.698 $\pm$ 0.216 χ^2 /NDF: 1843185.1/27

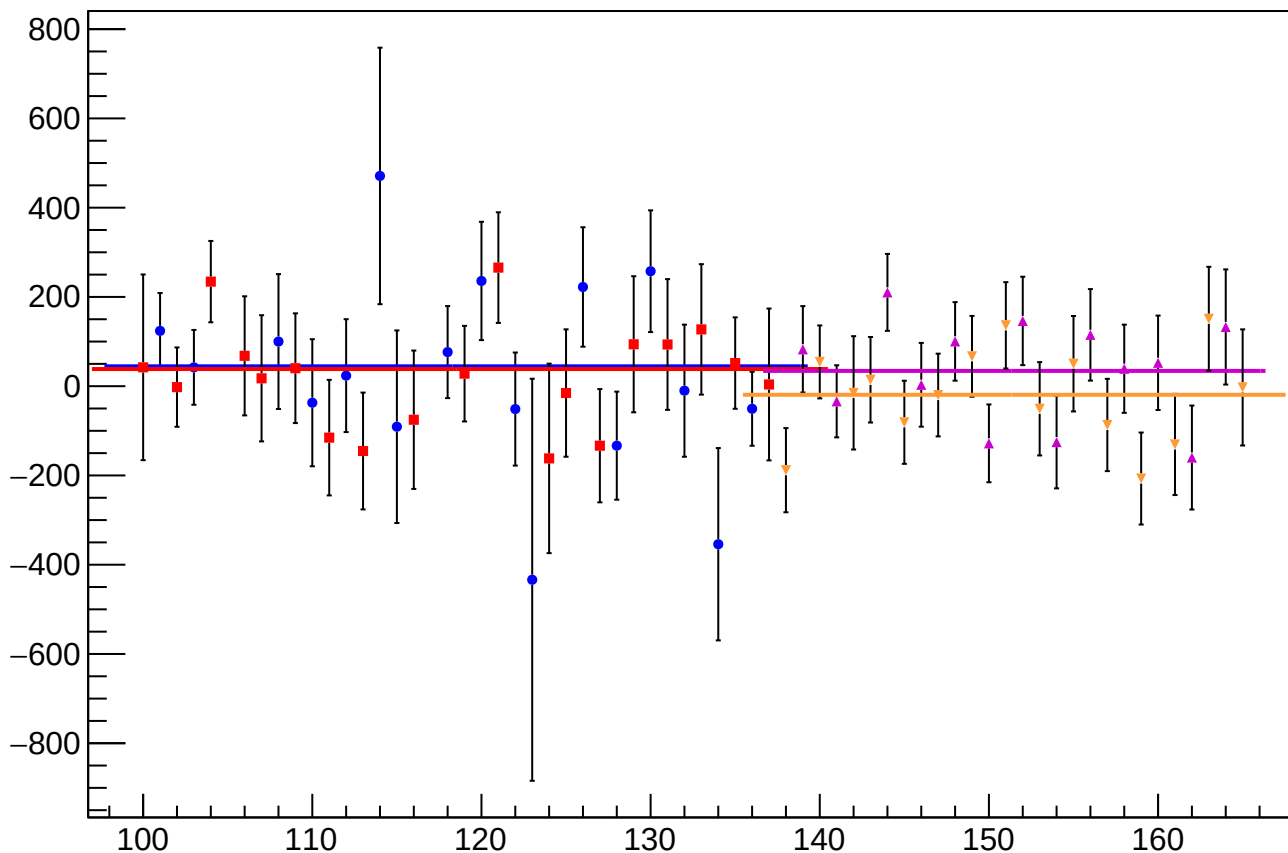
Right: 2238.439 $\pm$ 0.451 χ^2 /NDF: 3188639.4/35

In: 1557.481 $\pm$ 0.284 χ^2 /NDF: 3873411.7/29

Out: 1517.529 $\pm$ 0.267 χ^2 /NDF: 4124079.2/33

All: 1536.280 $\pm$ 0.195 χ^2 /NDF: 8007984.2/63

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484 $\pm$ 30.432 χ^2/NDF : 19.1/16

Left Out: -19.238 $\pm$ 26.073 χ^2/NDF : 15.5/14

Right Out: 38.425 $\pm$ 29.435 χ^2/NDF : 15.7/18

Left In: 34.256 $\pm$ 26.876 χ^2/NDF : 16.9/12

Left: 6.698 $\pm$ 18.714 χ^2/NDF : 34.4/27

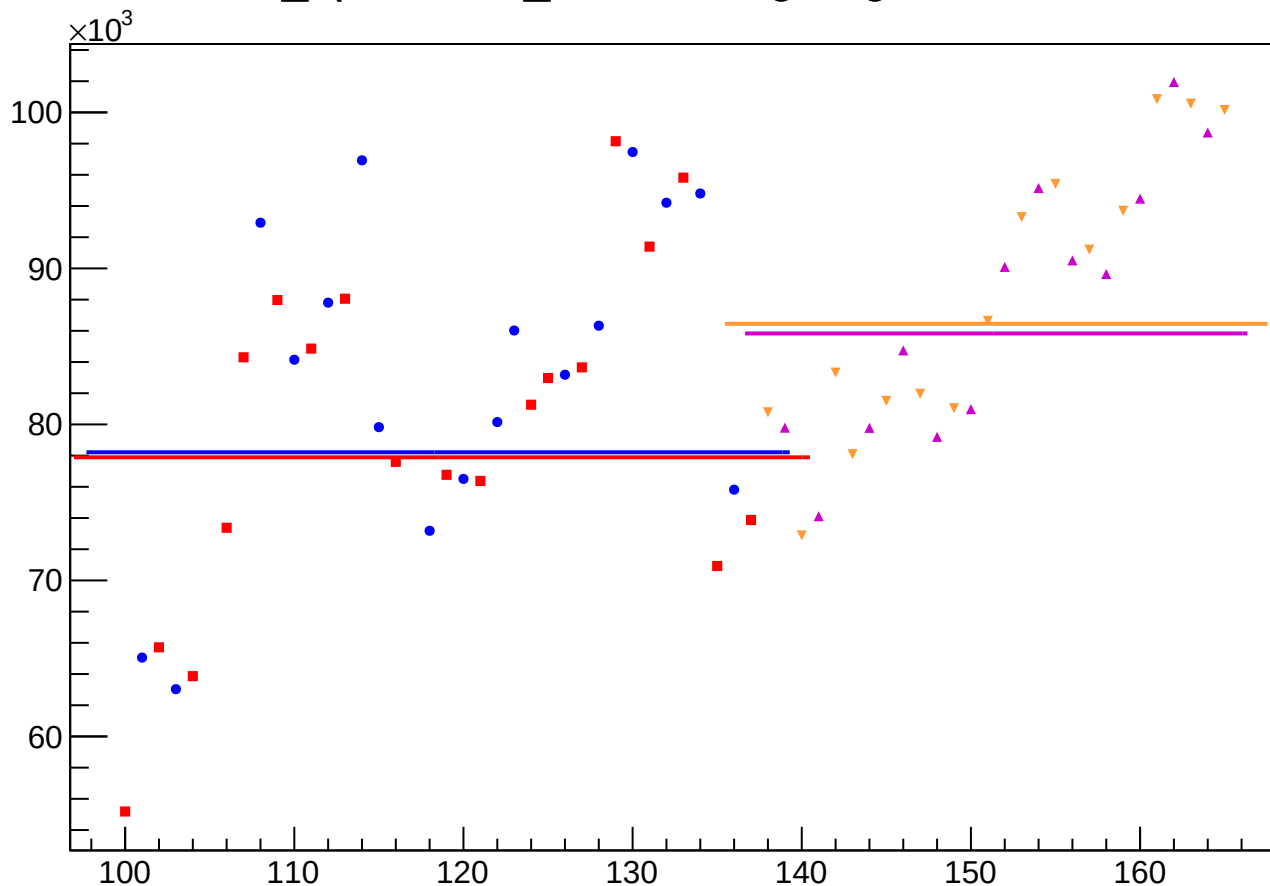
Right: 41.353 $\pm$ 21.157 χ^2/NDF : 34.9/35

In: 38.737 $\pm$ 20.145 χ^2/NDF : 36.1/29

Out: 6.114 $\pm$ 19.517 χ^2/NDF : 33.4/33

All: 21.910 $\pm$ 14.017 χ^2/NDF : 70.8/63

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025 $\pm$ 21.519 χ^2/NDF : 251056.7/16

Left Out: 86449.562 $\pm$ 18.437 χ^2/NDF : 216740.1/14

Right Out: 77891.938 $\pm$ 20.814 χ^2/NDF : 246970.2/18

Left In: 85831.767 $\pm$ 19.004 χ^2/NDF : 176131.2/12

Left: 86150.032 $\pm$ 13.233 χ^2/NDF : 393415.7/27

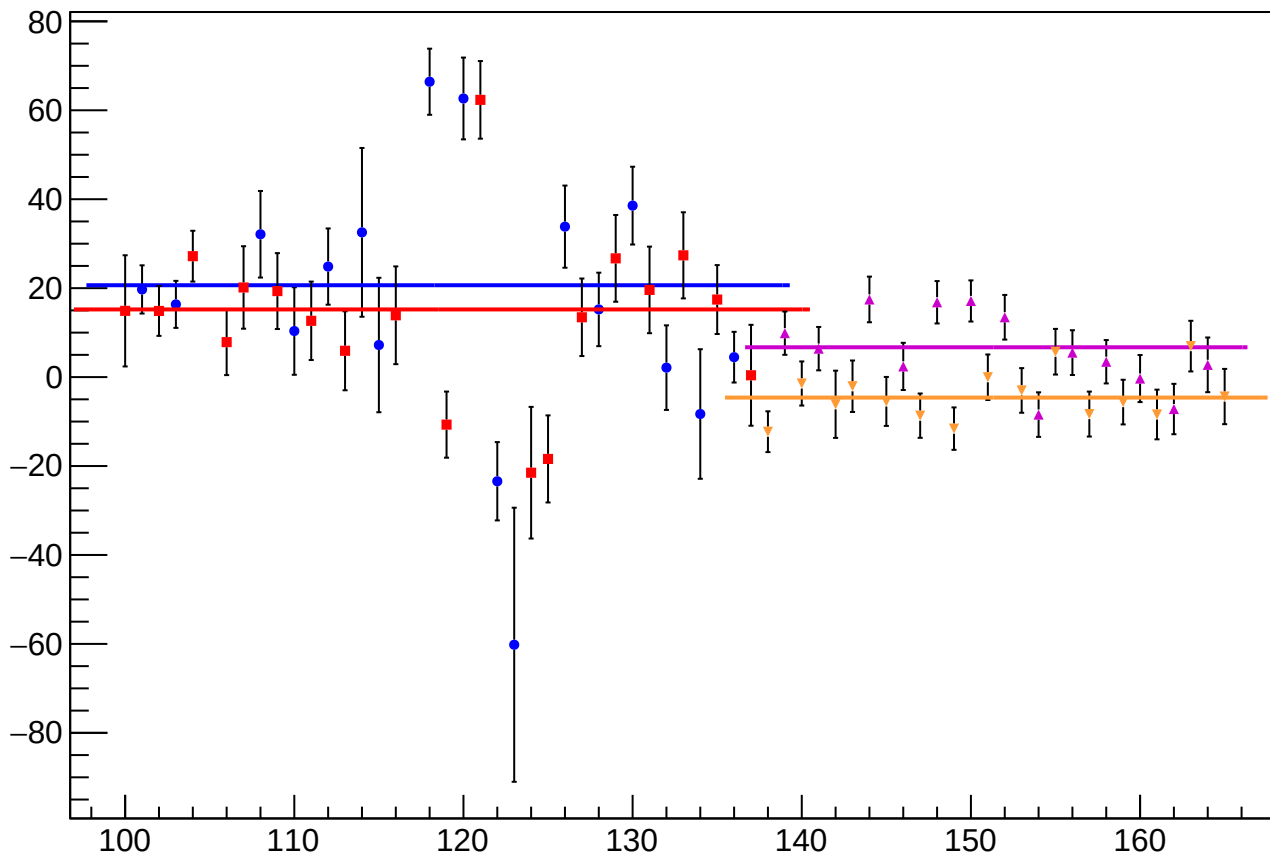
Right: 78047.137 $\pm$ 14.960 χ^2/NDF : 498141.9/35

In: 82493.267 $\pm$ 14.244 χ^2/NDF : 497612.9/29

Out: 82687.132 $\pm$ 13.801 χ^2/NDF : 558434.6/33

All: 82593.265 $\pm$ 9.912 χ^2/NDF : 1056143.0/66

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2 /NDF: 117.7/16

Left Out: -4.606 $\pm$ 1.366 χ^2 /NDF:16.4/14

Right Out: 15.216 $\pm$ 1.955 χ^2 /NDF: 71.3/18

Left In: 6.706 $\pm$ 1.410 χ^2 /NDF:34.7/12

Left: 0.868 $\pm$ 0.981 χ^2 /NDF: 84.3/27

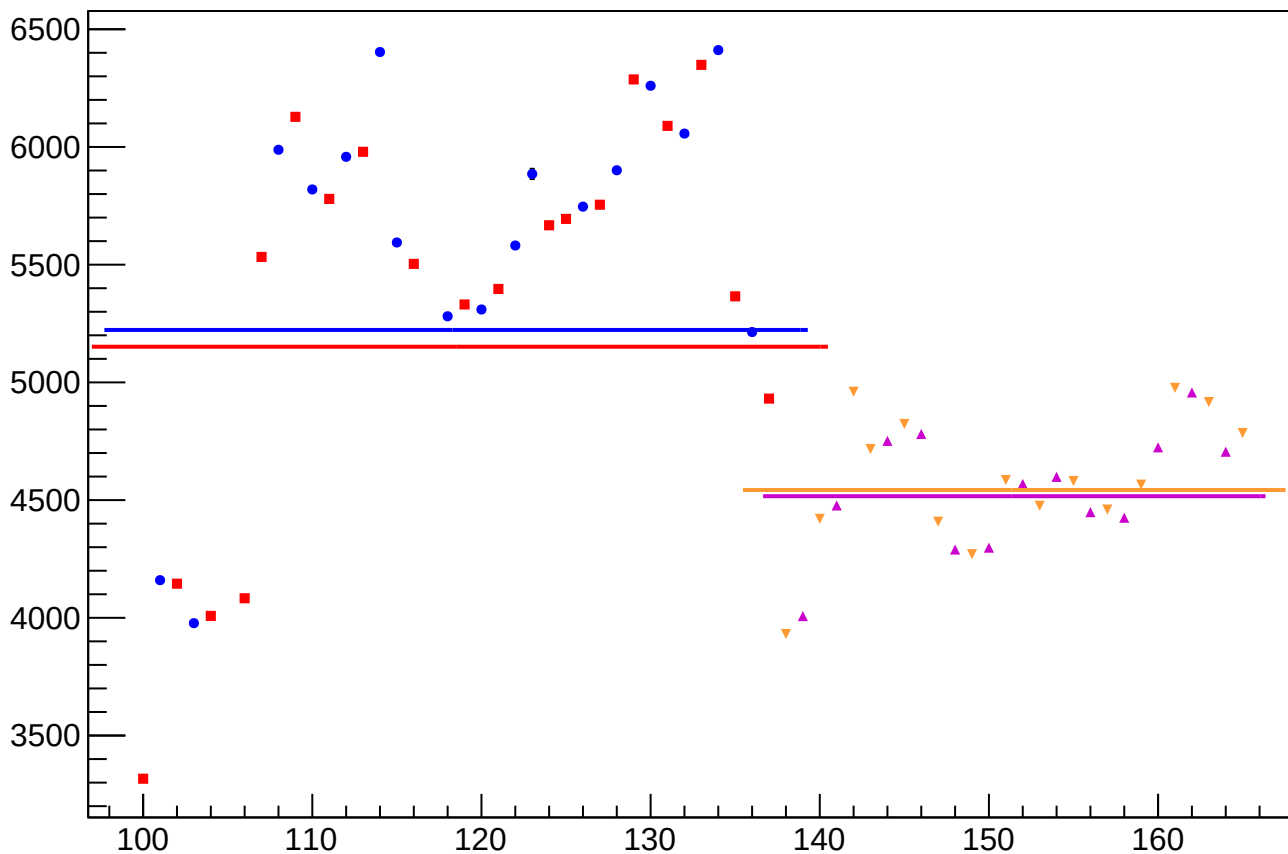
Right: 17.826 $\pm$ 1.410 χ^2 /NDF: 192.8/35

In: 11.230 $\pm$ 1.159 χ^2 /NDF:184.1/29

Out: 1.896 $\pm$ 1.120 χ^2 /NDF:156.8/33

All: 6.400 $\pm$ 0.805 χ^2 /NDF: 374.5/63

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 $\pm$ 1.440 χ^2 /NDF: 312497.9/16

Left Out: 4543.012 $\pm$ 0.966 χ^2 /NDF: 82761.1/14

Right Out: 5151.532 $\pm$ 1.382 χ^2 /NDF: 387685.6/18

Left In: 4516.513 $\pm$ 0.997 χ^2 /NDF: 59001.9/12

Left: 4530.189 $\pm$ 0.694 χ^2 /NDF: 142127.4/27

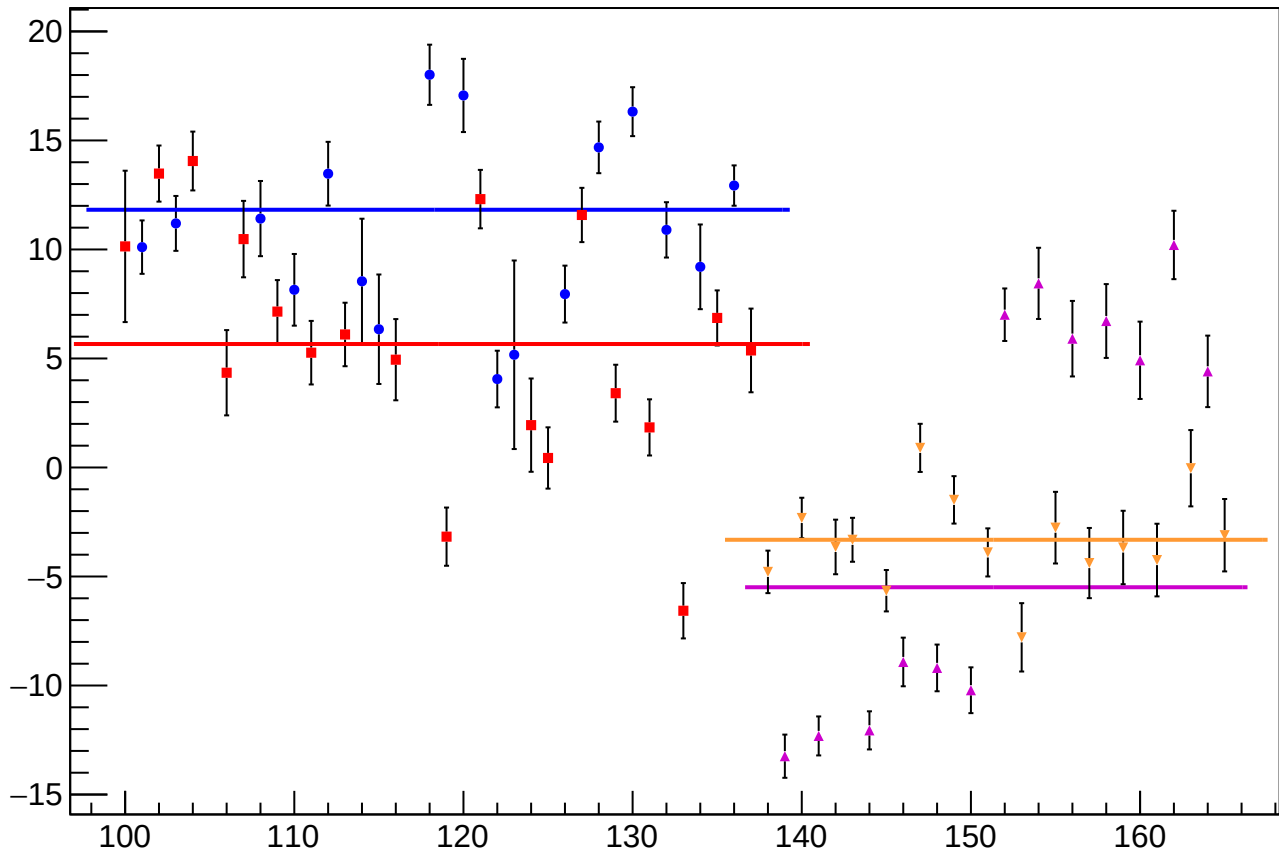
Right: 5185.701 $\pm$ 0.997 χ^2 /NDF: 701457.6/35

In: 4745.552 $\pm$ 0.820 χ^2 /NDF: 534130.2/29

Out: 4742.634 $\pm$ 0.792 χ^2 /NDF: 600689.9/33

All: 4744.042 $\pm$ 0.569 χ^2 /NDF: 1134826.7/63

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 $\chi^2/\text{NDF}: 117.0/16$

Left Out: -3.316 ± 0.316 $\chi^2/\text{NDF}: 39.8/14$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -5.493 ± 0.333 $\chi^2/\text{NDF}: 664.3/12$

Left: -4.347 ± 0.229 $\chi^2/\text{NDF}: 726.6/27$

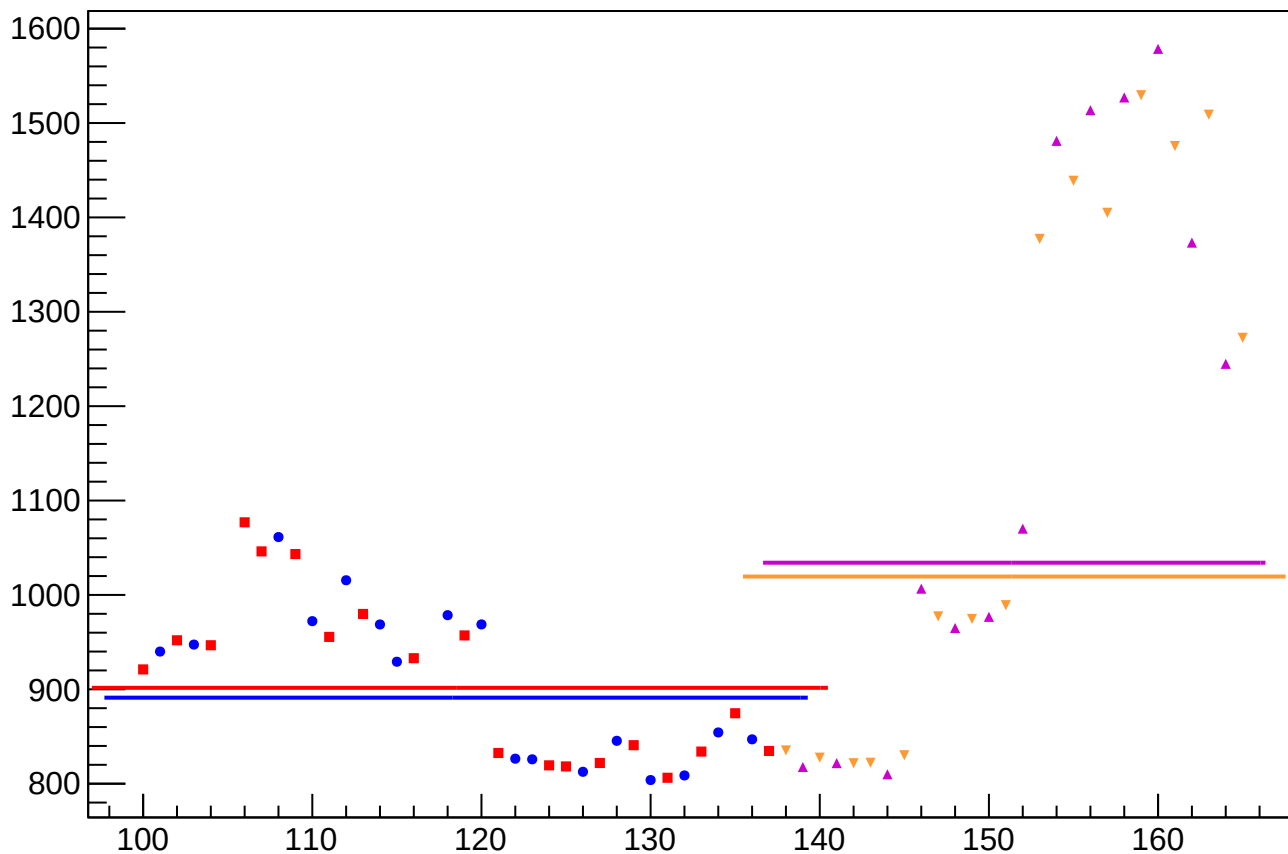
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.878 ± 0.240 $\chi^2/\text{NDF}: 2086.0/29$

Out: 0.869 ± 0.231 $\chi^2/\text{NDF}: 715.7/33$

All: 1.837 ± 0.166 $\chi^2/\text{NDF}: 2838.1/63$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149 $\pm$ 0.244 χ^2 /NDF: 101659.1/16

Left Out: 1019.509 $\pm$ 0.224 χ^2 /NDF:1256269.5/14

Right Out: 901.588 $\pm$ 0.239 χ^2 /NDF: 114590.8/18

Left In: 1034.137 $\pm$ 0.236 χ^2 /NDF:1144665.8/12

Left: 1026.439 $\pm$ 0.162 χ^2 /NDF: 2402962.8/27

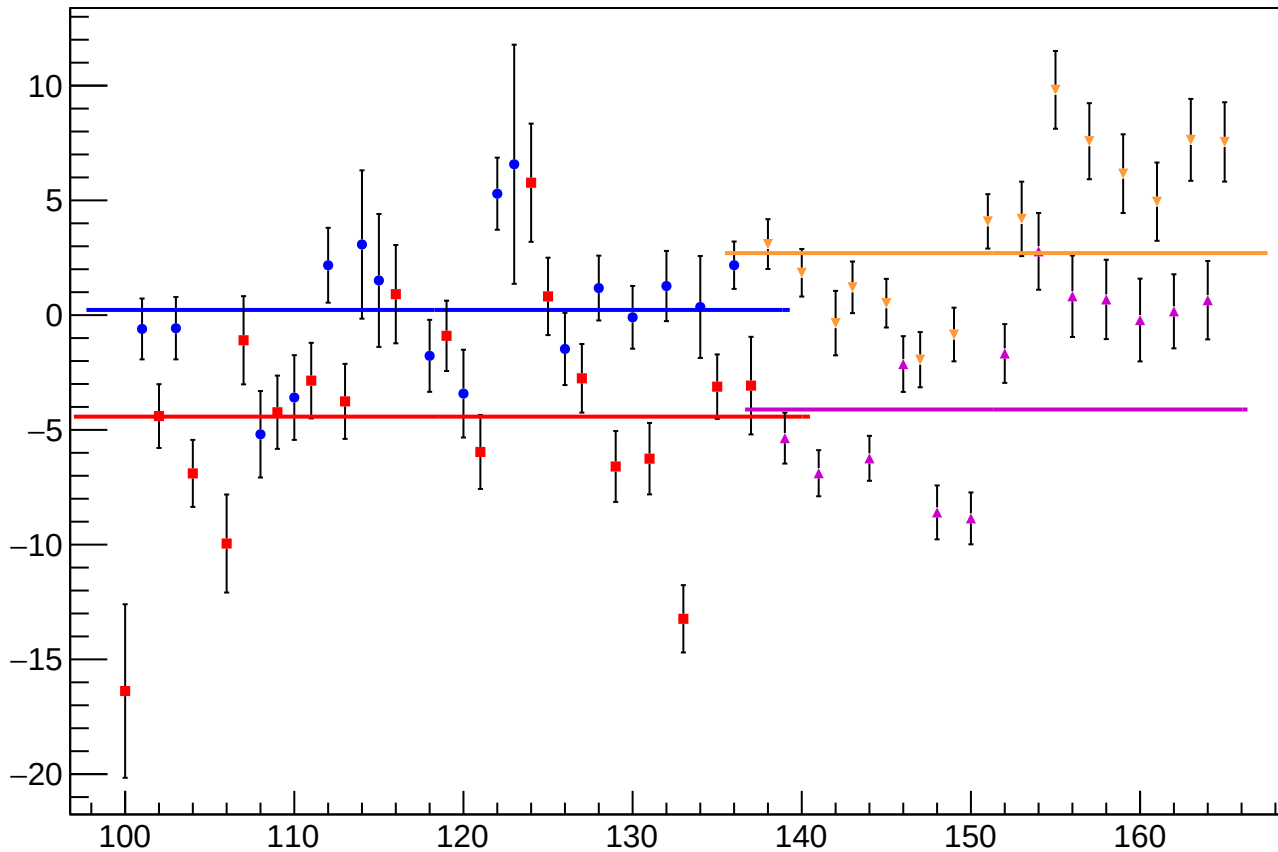
Right: 896.461 $\pm$ 0.171 χ^2 /NDF: 217184.3/35

In: 965.006 $\pm$ 0.169 χ^2 /NDF:1424295.7/29

Out: 964.548 $\pm$ 0.163 χ^2 /NDF:1500476.2/33

All: 964.769 $\pm$ 0.118 χ^2 /NDF: 2924775.7/63

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 χ^2/NDF : 38.5/16

Left Out: 2.703 ± 0.342 χ^2/NDF : 85.4/14

Right Out: -4.423 ± 0.387 χ^2/NDF : 103.3/18

Left In: -4.113 ± 0.361 χ^2/NDF : 104.0/12

Left: -0.528 ± 0.248 χ^2/NDF : 377.1/27

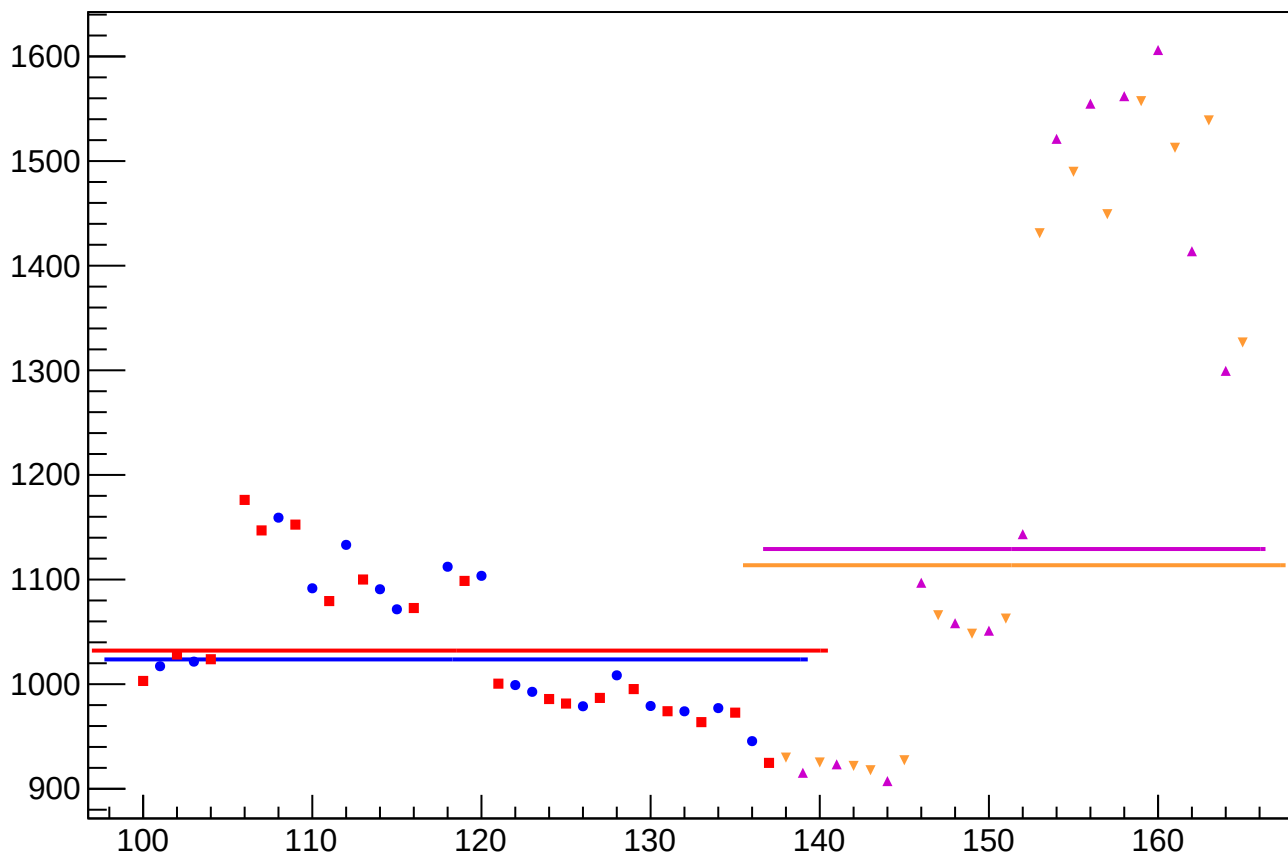
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -2.139 ± 0.266 χ^2/NDF : 208.3/29

Out: -0.429 ± 0.256 χ^2/NDF : 379.0/33

All: -1.252 ± 0.185 χ^2/NDF : 608.7/63

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 $\pm$ 0.279 χ^2 /NDF: 52373.8/16

Left Out: 1113.685 $\pm$ 0.242 χ^2 /NDF: 940945.6/14

Right Out: 1032.107 $\pm$ 0.273 χ^2 /NDF: 59391.6/18

Left In: 1129.181 $\pm$ 0.255 χ^2 /NDF: 851584.2/12

Left: 1121.031 $\pm$ 0.176 χ^2 /NDF: 1794470.5/27

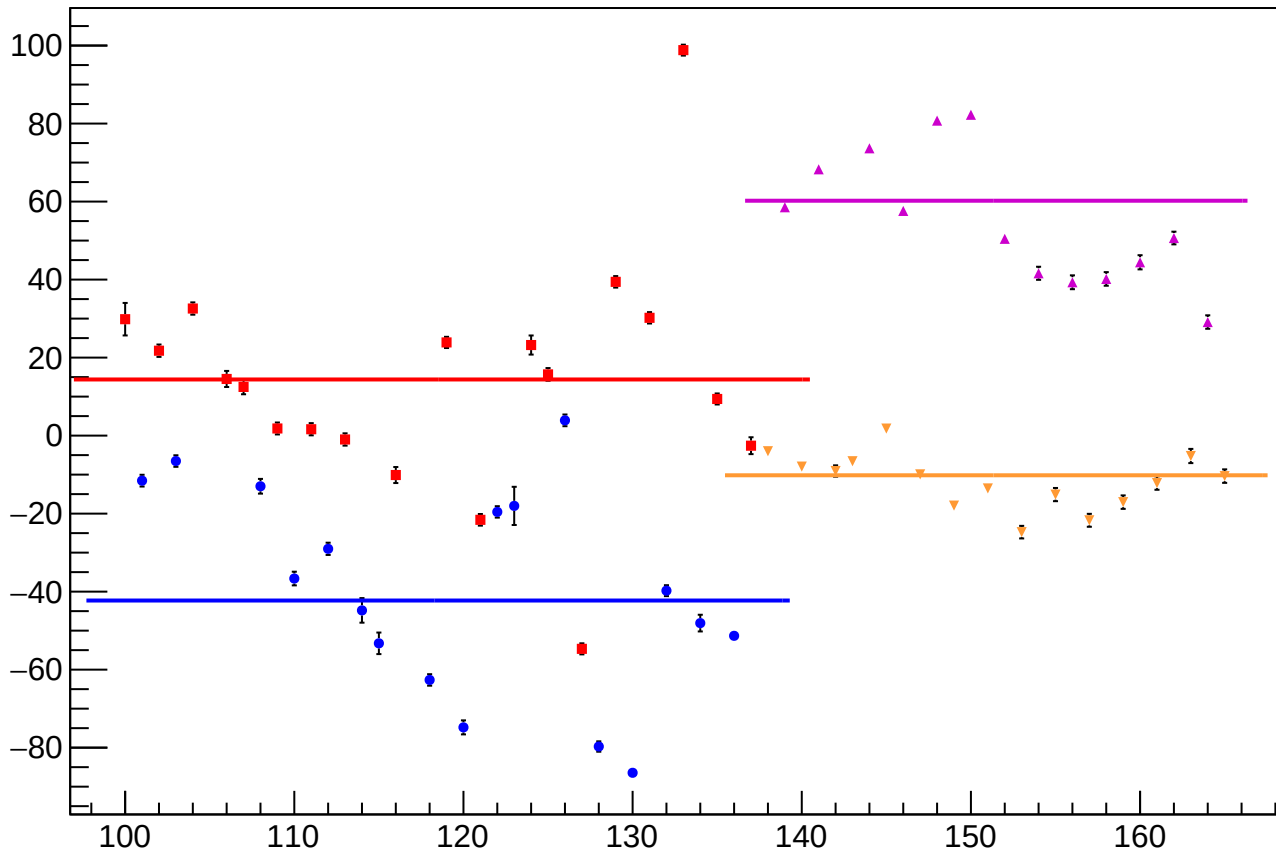
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1081.185 $\pm$ 0.188 χ^2 /NDF: 981783.8/29

Out: 1077.825 $\pm$ 0.181 χ^2 /NDF: 1050215.0/33

All: 1079.441 $\pm$ 0.131 χ^2 /NDF: 2032163.9/63

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 χ^2/NDF : 5126.8/16

Left Out: -10.170 ± 0.350 χ^2/NDF : 375.1/14

Right Out: 14.393 ± 0.378 χ^2/NDF : 7669.8/18

Left In: 60.218 ± 0.371 χ^2/NDF : 1713.1/12

Left: 22.984 ± 0.255 χ^2/NDF : 21126.2/27

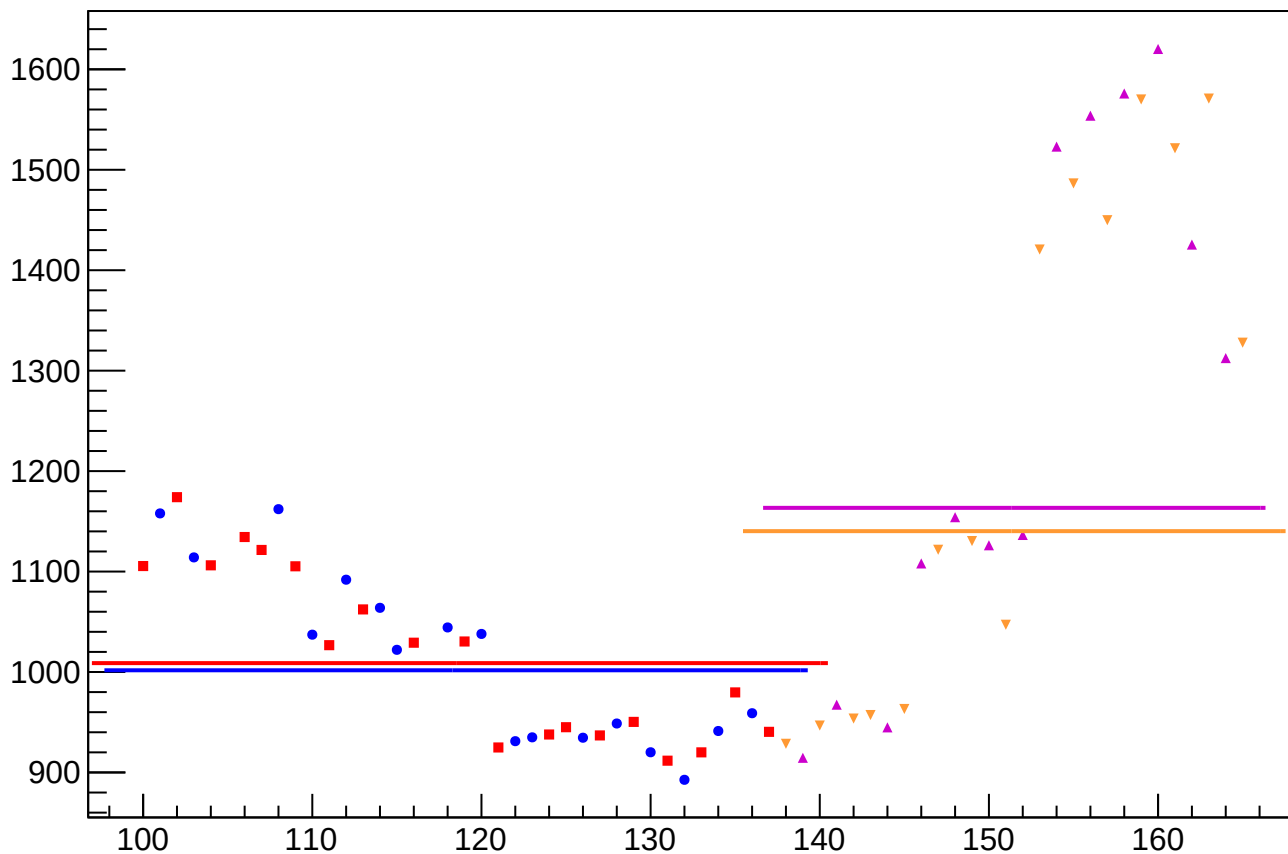
Right: -13.301 ± 0.271 χ^2/NDF : 23754.3/35

In: 11.145 ± 0.268 χ^2/NDF : 43377.4/29

Out: 1.157 ± 0.257 χ^2/NDF : 10314.6/33

All: 5.945 ± 0.185 χ^2/NDF : 54415.9/63

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2/NDF : 95480.0/16

Left Out: 1140.233 $\pm$ 0.248 χ^2/NDF : 860969.7/14

Right Out: 1008.848 $\pm$ 0.268 χ^2/NDF : 95349.9/18

Left In: 1163.426 $\pm$ 0.262 χ^2/NDF : 762117.1/12

Left: 1151.157 $\pm$ 0.180 χ^2/NDF : 1627221.0/27

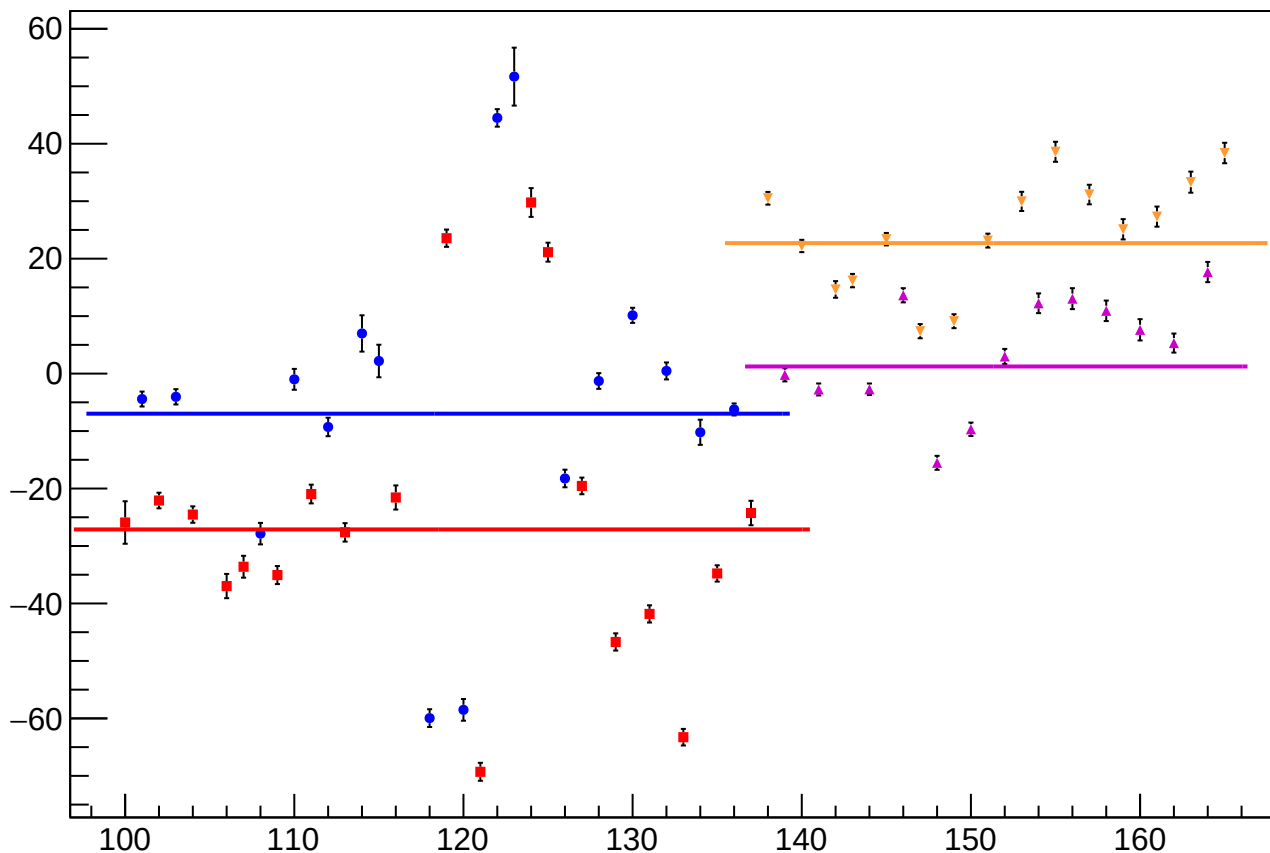
Right: 1005.358 $\pm$ 0.191 χ^2/NDF : 191177.9/35

In: 1085.999 $\pm$ 0.189 χ^2/NDF : 1039517.3/29

Out: 1079.645 $\pm$ 0.182 χ^2/NDF : 1086201.7/33

All: 1082.691 $\pm$ 0.131 χ^2/NDF : 2126304.8/63

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 22.705 ± 0.352 χ^2/NDF : 638.5/14

Right Out: -27.116 ± 0.380 χ^2/NDF : 4283.5/18

Left In: 1.238 ± 0.371 χ^2/NDF : 629.5/12

Left: 12.537 ± 0.256 χ^2/NDF : 3025.8/27

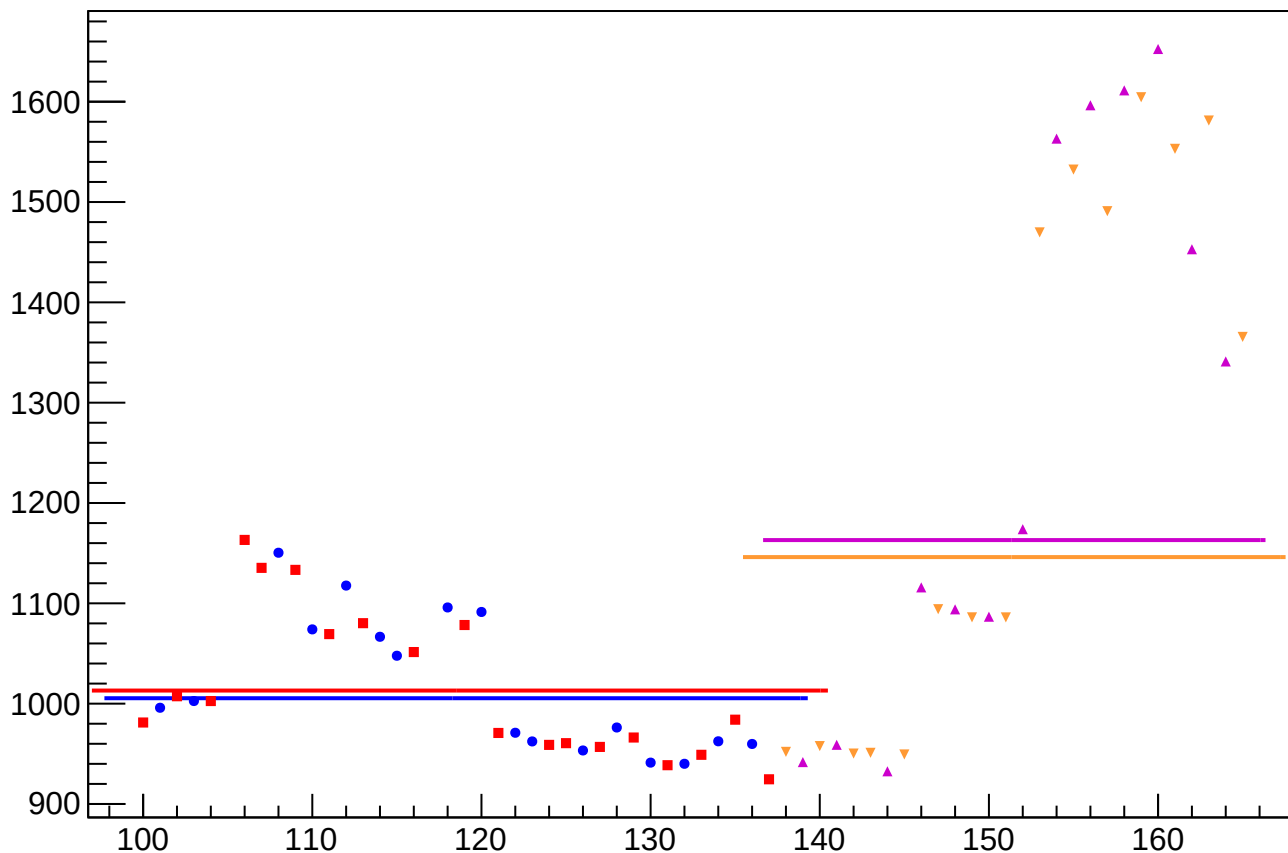
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: -2.690 ± 0.268 χ^2/NDF : 4500.1/29

Out: -0.356 ± 0.258 χ^2/NDF : 14174.6/33

All: -1.478 ± 0.186 χ^2/NDF : 18714.0/63

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2 /NDF: 54586.0/16

Left Out: 1146.083 $\pm$ 0.249 χ^2 /NDF: 936093.0/14

Right Out: 1013.064 $\pm$ 0.268 χ^2 /NDF: 63265.7/18

Left In: 1163.041 $\pm$ 0.263 χ^2 /NDF: 843411.3/12

Left: 1154.115 $\pm$ 0.181 χ^2 /NDF: 1781698.1/27

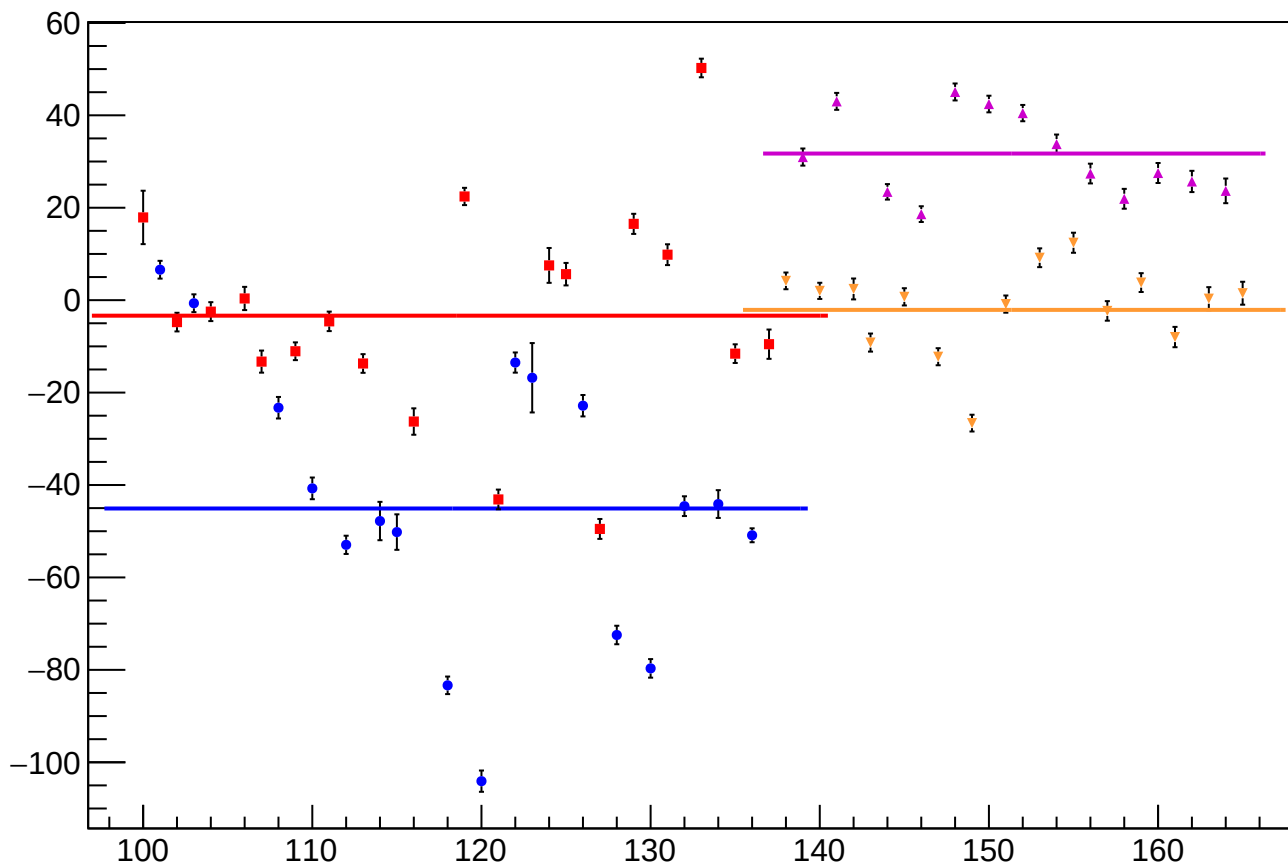
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

In: 1087.645 $\pm$ 0.190 χ^2 /NDF: 1070252.9/29

Out: 1084.513 $\pm$ 0.183 χ^2 /NDF: 1131278.5/33

All: 1086.019 $\pm$ 0.132 χ^2 /NDF: 2201672.9/63

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -2.104 ± 0.519 χ^2/NDF : 344.0/14

Right Out: -3.358 ± 0.522 χ^2/NDF : 2005.7/18

Left In: 31.725 ± 0.540 χ^2/NDF : 280.3/12

Left: 14.146 ± 0.374 χ^2/NDF : 2664.8/27

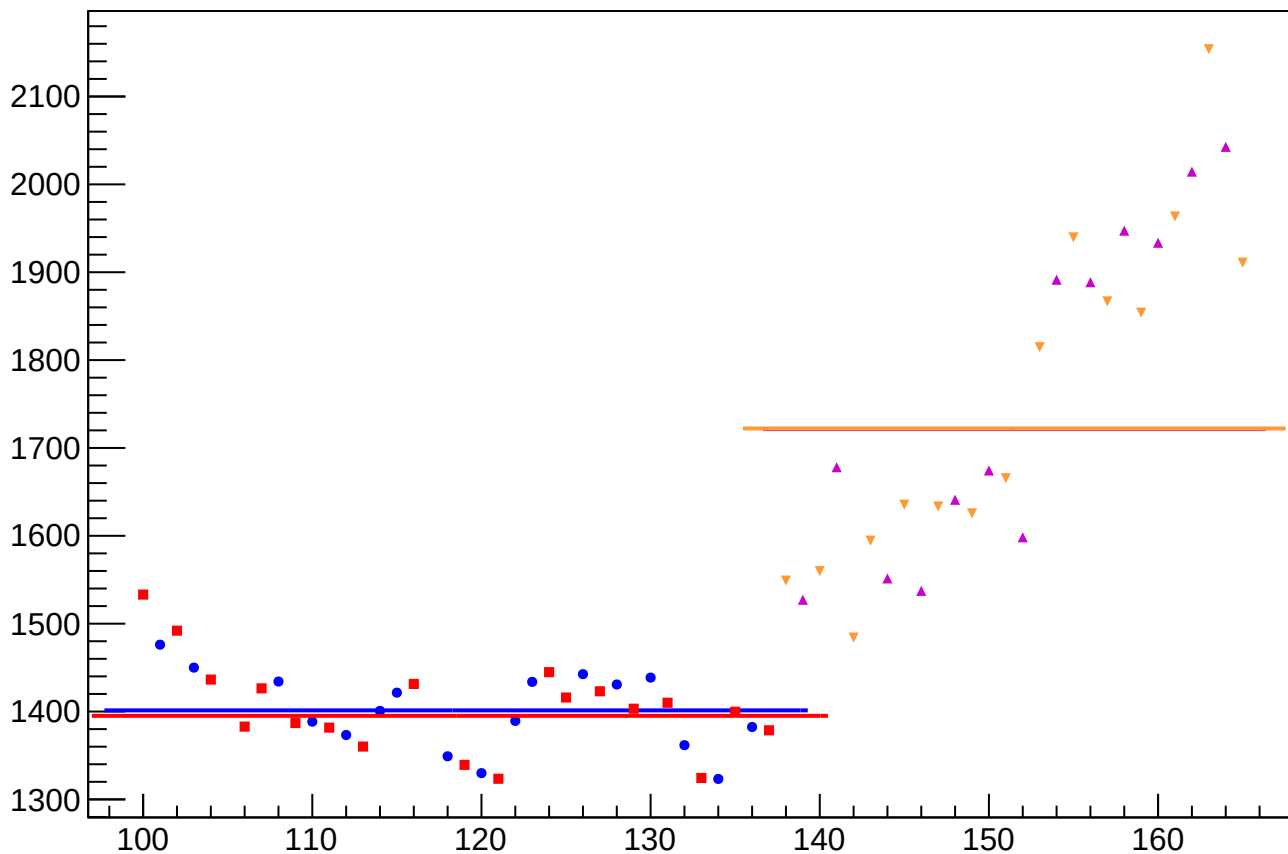
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -6.690 ± 0.382 χ^2/NDF : 13641.9/29

Out: -2.728 ± 0.368 χ^2/NDF : 2352.6/33

All: -4.636 ± 0.265 χ^2/NDF : 16050.4/63

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307+/-0.382 χ^2/NDF : 12852.1/16

Left Out: 1722.134+/-0.367 χ^2/NDF : 220273.7/14

Right Out: 1395.105+/-0.369 χ^2/NDF : 15520.0/18

Left In: 1721.457+/-0.382 χ^2/NDF : 210601.7/12

Left: 1721.809+/-0.265 χ^2/NDF : 430877.1/27

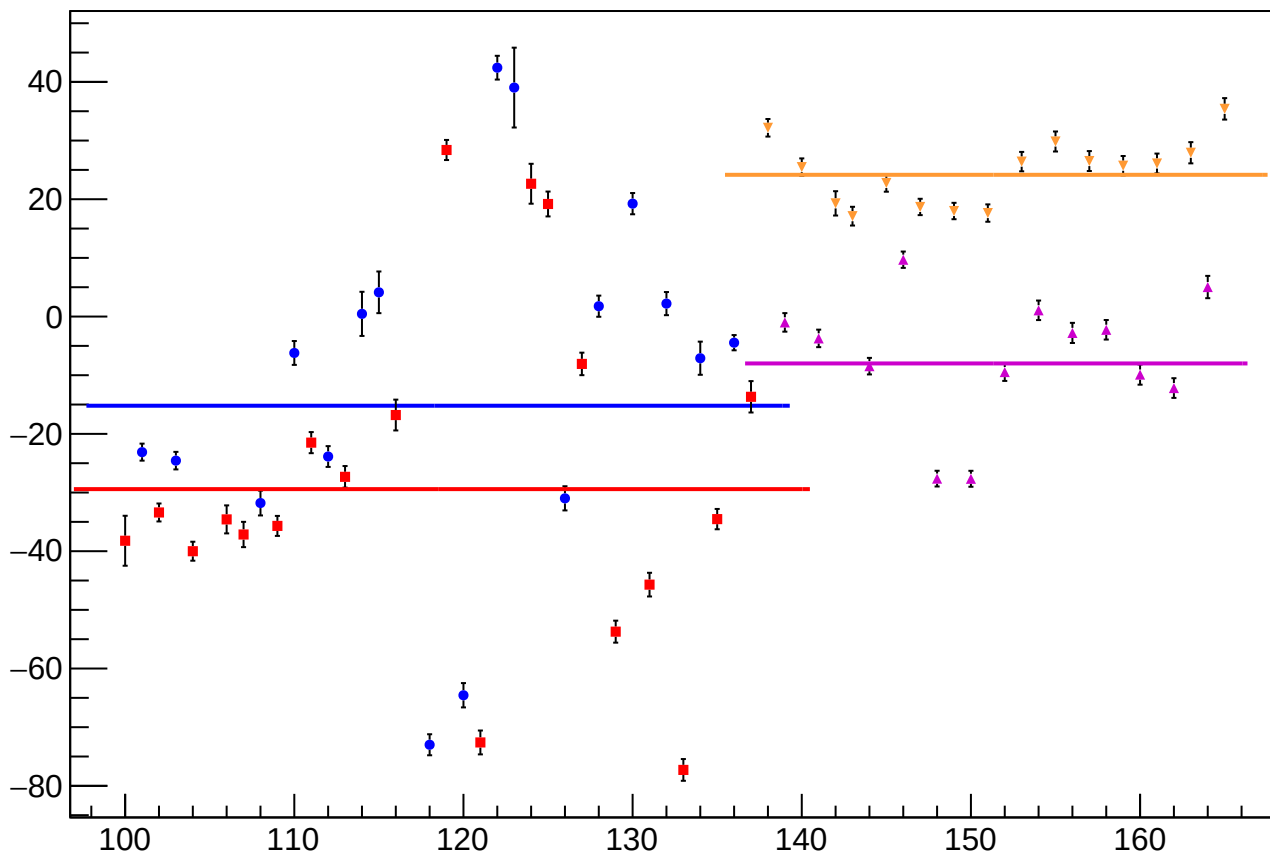
Right: 1398.102+/-0.265 χ^2/NDF : 28508.5/35

In: 1561.333+/-0.270 χ^2/NDF : 575238.4/29

Out: 1559.490+/-0.260 χ^2/NDF : 630656.2/33

All: 1560.378+/-0.187 χ^2/NDF : 1205918.8/63

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 $\chi^2/\text{NDF}: 3362.5/16$

Left Out: 24.164 ± 0.414 $\chi^2/\text{NDF}: 168.8/14$

Right Out: -29.418 ± 0.456 $\chi^2/\text{NDF}: 3544.8/18$

Left In: -7.993 ± 0.429 $\chi^2/\text{NDF}: 718.4/12$

Left: 8.660 ± 0.298 $\chi^2/\text{NDF}: 3796.5/27$

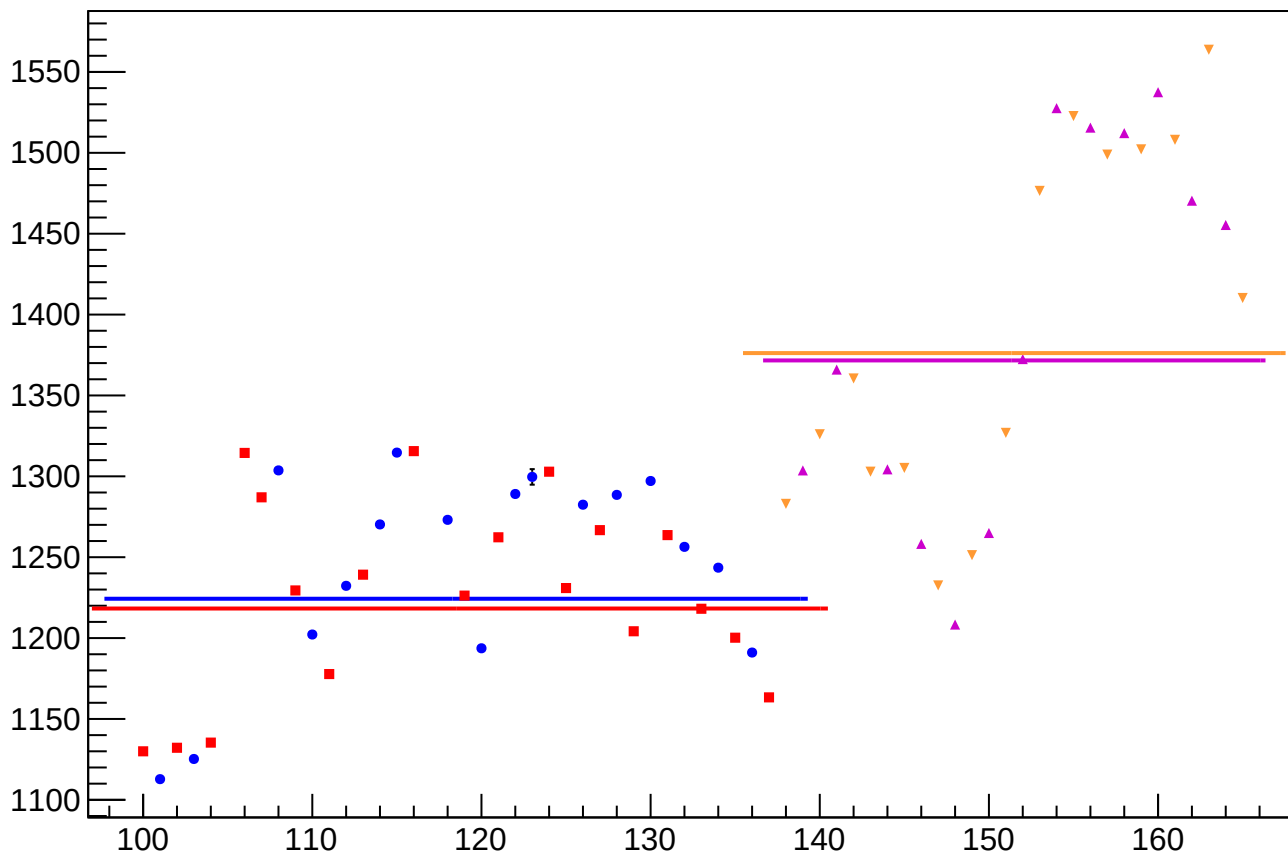
Right: -22.553 ± 0.328 $\chi^2/\text{NDF}: 7376.3/35$

In: -11.254 ± 0.318 $\chi^2/\text{NDF}: 4208.6/29$

Out: -0.032 ± 0.307 $\chi^2/\text{NDF}: 11279.3/33$

All: -5.446 ± 0.221 $\chi^2/\text{NDF}: 16134.3/63$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320 ± 0.334 χ^2/NDF : 38778.2/16

Left Out: 1376.194 ± 0.293 χ^2/NDF : 136940.2/14

Right Out: 1218.276 ± 0.323 χ^2/NDF : 27572.9/18

Left In: 1371.652 ± 0.303 χ^2/NDF : 138771.5/12

Left: 1374.004 ± 0.211 χ^2/NDF : 275827.8/27

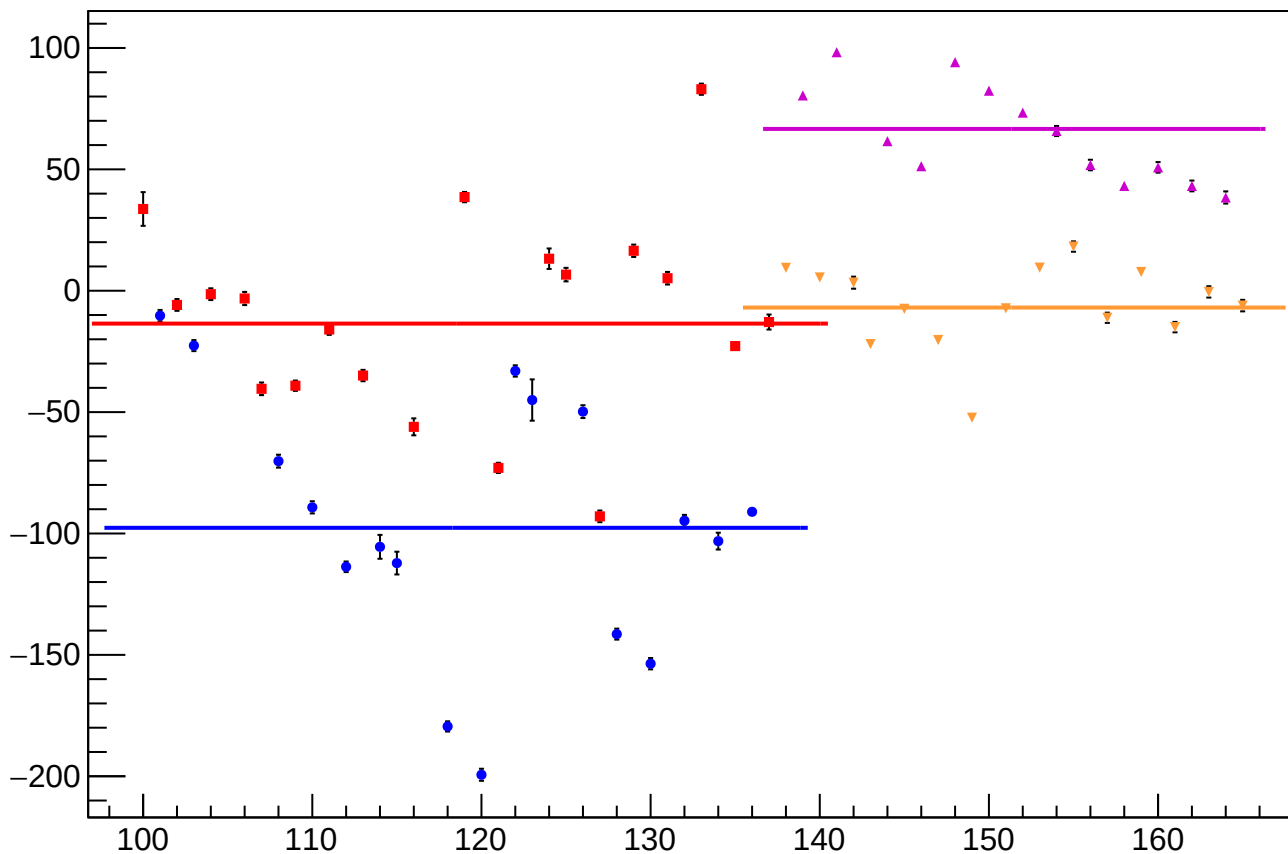
Right: 1221.195 ± 0.232 χ^2/NDF : 66520.6/35

In: 1305.013 ± 0.225 χ^2/NDF : 284226.2/29

Out: 1304.882 ± 0.217 χ^2/NDF : 295950.3/33

All: 1304.945 ± 0.156 χ^2/NDF : 580176.7/63

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -6.927 ± 0.519 χ^2/NDF : 1151.0/14

Right Out: -13.538 ± 0.579 χ^2/NDF : 5128.2/18

Left In: 66.656 ± 0.542 χ^2/NDF : 1219.6/12

Left: 28.262 ± 0.375 χ^2/NDF : 11976.8/27

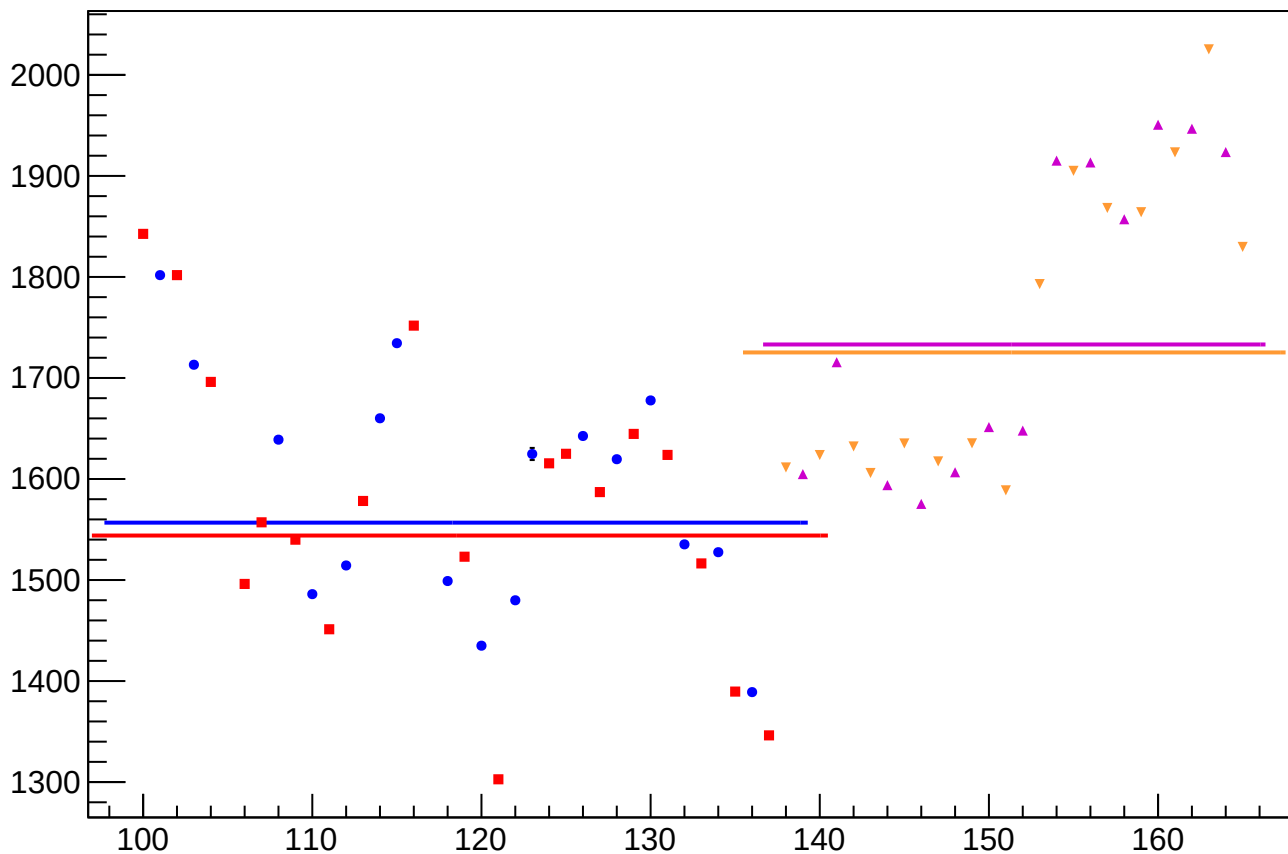
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: -7.044 ± 0.403 χ^2/NDF : 50333.3/29

Out: -9.872 ± 0.387 χ^2/NDF : 6351.4/33

All: -8.515 ± 0.279 χ^2/NDF : 56710.3/63

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1725.271 $\pm$ 0.367 χ^2 /NDF:140265.1/14

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1733.157 $\pm$ 0.383 χ^2 /NDF:143185.7/12

Left: 1729.042 $\pm$ 0.265 χ^2 /NDF: 283671.5/27

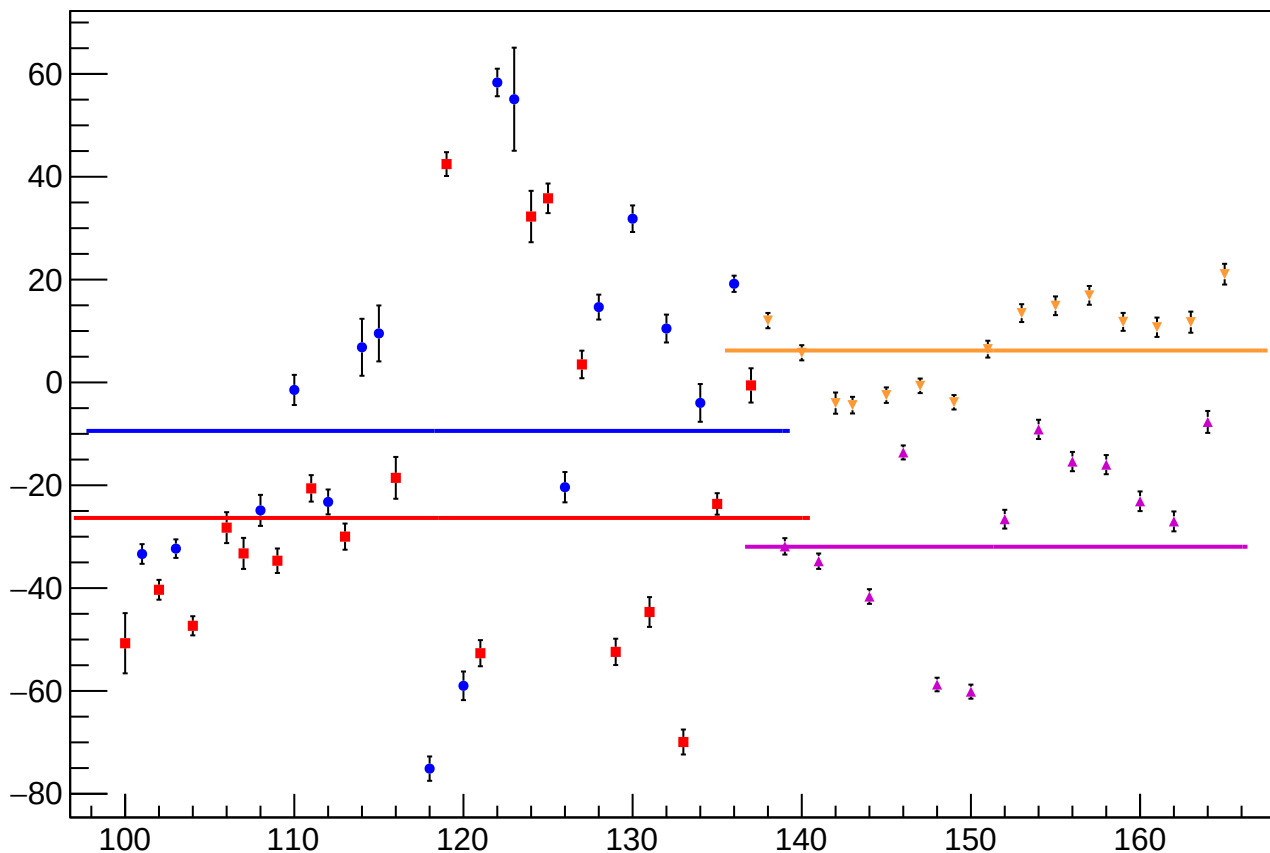
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1654.055 $\pm$ 0.285 χ^2 /NDF:319605.1/29

Out: 1644.553 $\pm$ 0.273 χ^2 /NDF:349311.6/33

All: 1649.111 $\pm$ 0.197 χ^2 /NDF: 669496.1/63

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427+/-0.626 χ^2 /NDF: 2924.1/16

Left Out: 6.209+/-0.431 χ^2 /NDF:343.5/14

Right Out: -26.354+/-0.603 χ^2 /NDF: 2472.1/18

Left In: -31.955+/-0.452 χ^2 /NDF:1531.0/12

Left: -11.971+/-0.312 χ^2 /NDF: 5603.9/27

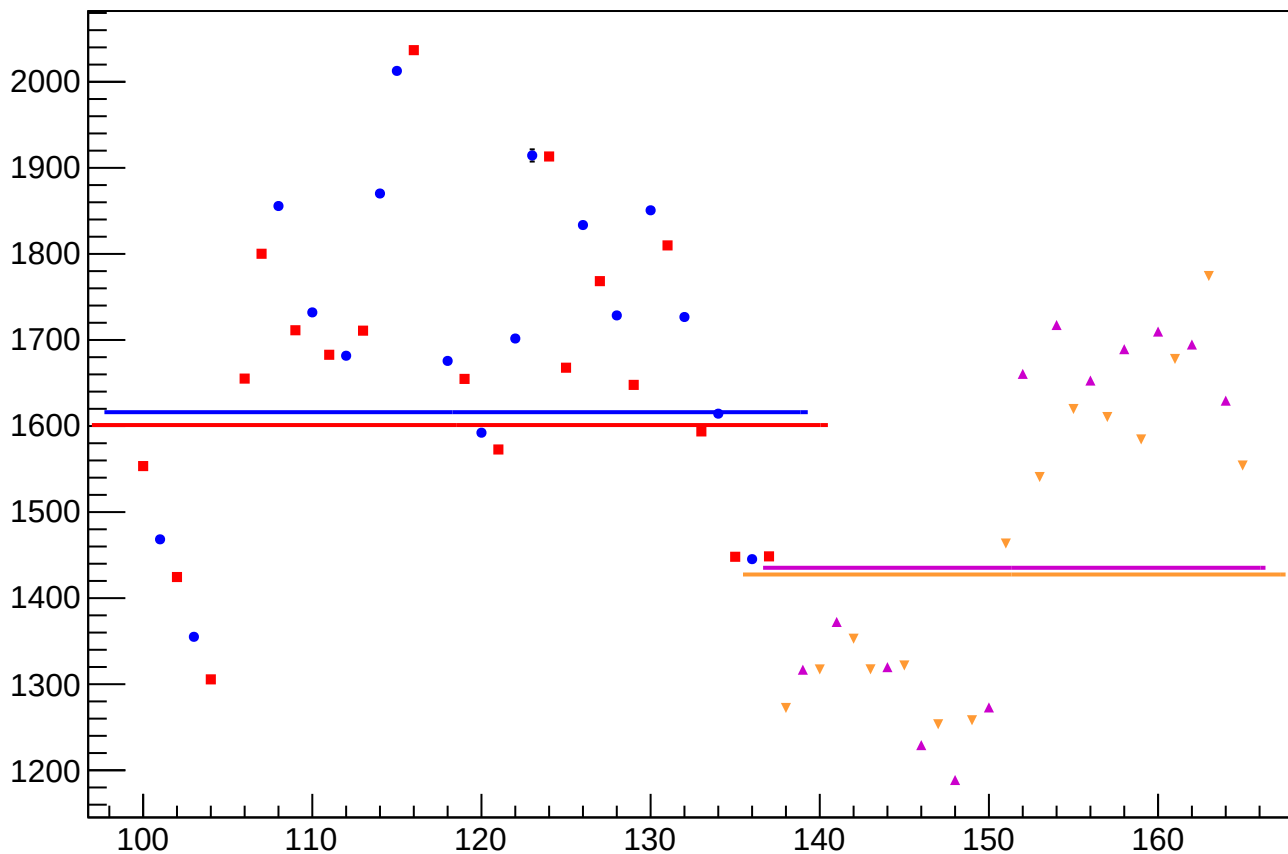
Right: -18.216+/-0.434 χ^2 /NDF: 5775.3/35

In: -24.237+/-0.367 χ^2 /NDF:5305.2/29

Out: -4.818+/-0.351 χ^2 /NDF:4745.6/33

All: -14.097+/-0.253 χ^2 /NDF: 11515.5/63

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2 /NDF: 149596.3/16

Left Out: 1427.482 $\pm$ 0.305 χ^2 /NDF: 282487.4/14

Right Out: 1601.134 $\pm$ 0.426 χ^2 /NDF: 153651.5/18

Left In: 1435.284 $\pm$ 0.320 χ^2 /NDF: 404651.6/12

Left: 1431.199 $\pm$ 0.221 χ^2 /NDF: 687450.7/27

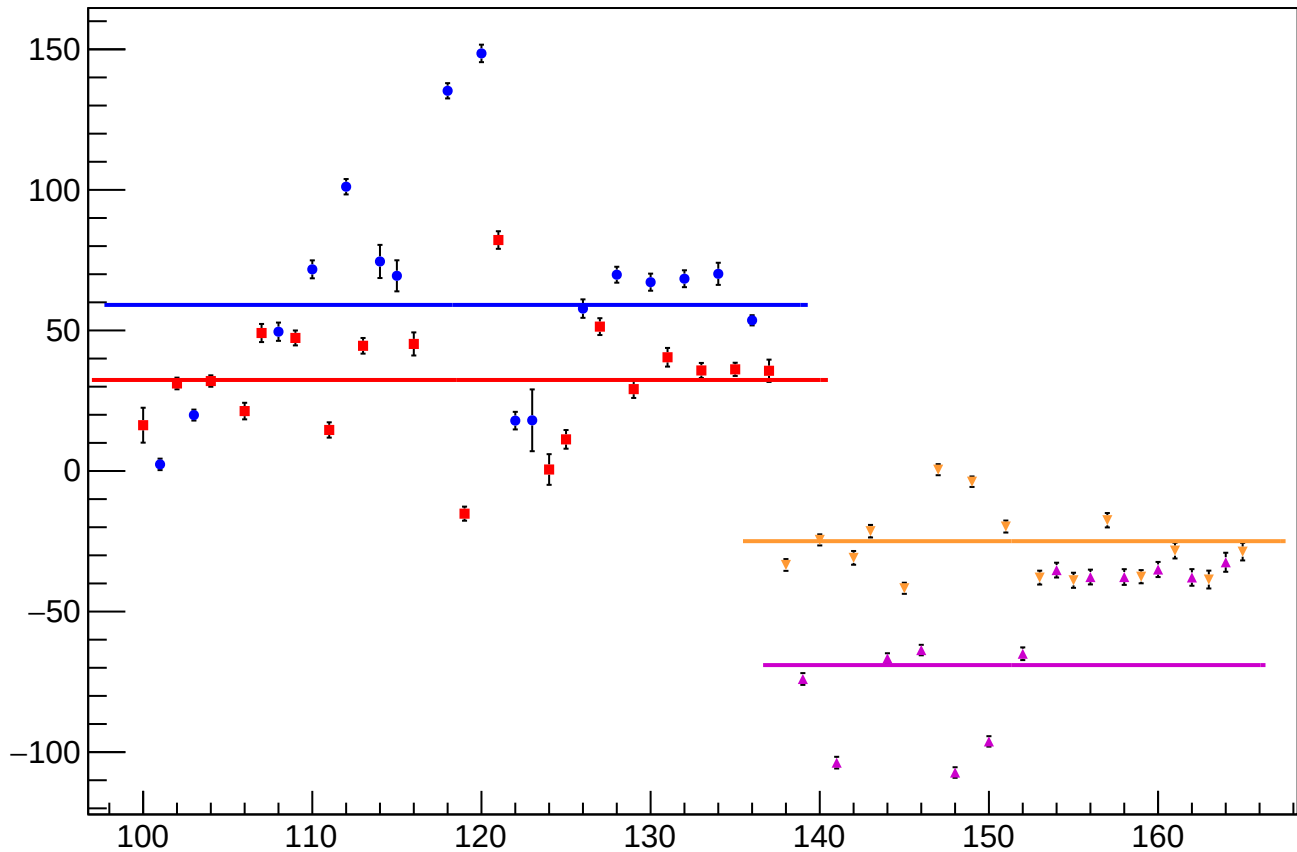
Right: 1608.326 $\pm$ 0.307 χ^2 /NDF: 303840.0/35

In: 1497.224 $\pm$ 0.259 χ^2 /NDF: 663780.4/29

Out: 1486.284 $\pm$ 0.248 χ^2 /NDF: 545915.2/33

All: 1491.512 $\pm$ 0.179 χ^2 /NDF: 1210625.4/63

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 $\chi^2/\text{NDF}: 3293.6/16$

Left Out: -24.958 ± 0.594 $\chi^2/\text{NDF}: 510.4/14$

Right Out: 32.382 ± 0.666 $\chi^2/\text{NDF}: 891.5/18$

Left In: -69.037 ± 0.624 $\chi^2/\text{NDF}: 1743.8/12$

Left: -45.892 ± 0.430 $\chi^2/\text{NDF}: 4871.6/27$

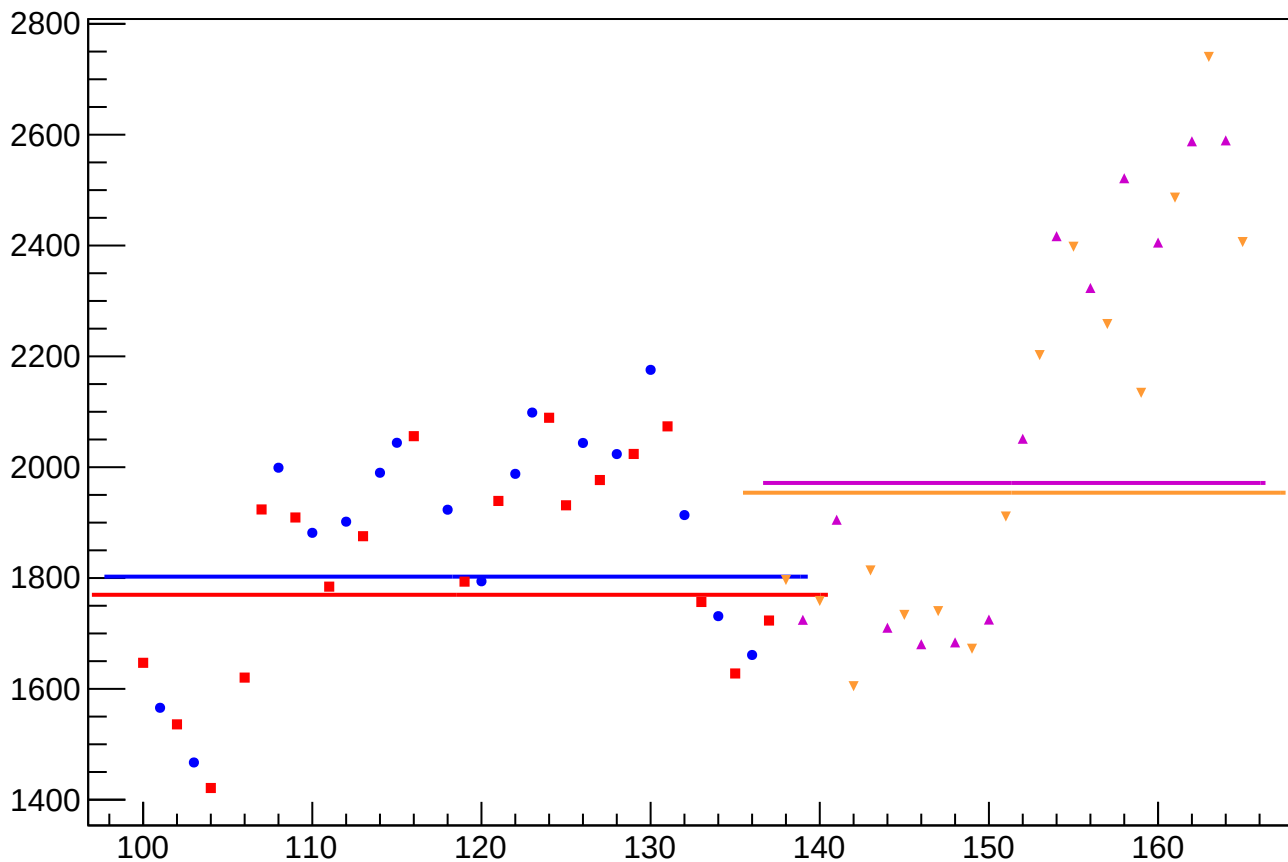
Right: 45.088 ± 0.483 $\chi^2/\text{NDF}: 4948.8/35$

In: -12.226 ± 0.466 $\chi^2/\text{NDF}: 23710.7/29$

Out: 0.414 ± 0.443 $\chi^2/\text{NDF}: 5528.5/33$

All: -5.594 ± 0.321 $\chi^2/\text{NDF}: 29625.6/63$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 1953.973+/-0.420 χ^2/NDF : 526437.5/14

Right Out: 1769.772+/-0.471 χ^2/NDF : 177893.4/18

Left In: 1971.589+/-0.441 χ^2/NDF : 579239.7/12

Left: 1962.339+/-0.304 χ^2/NDF : 1106513.3/27

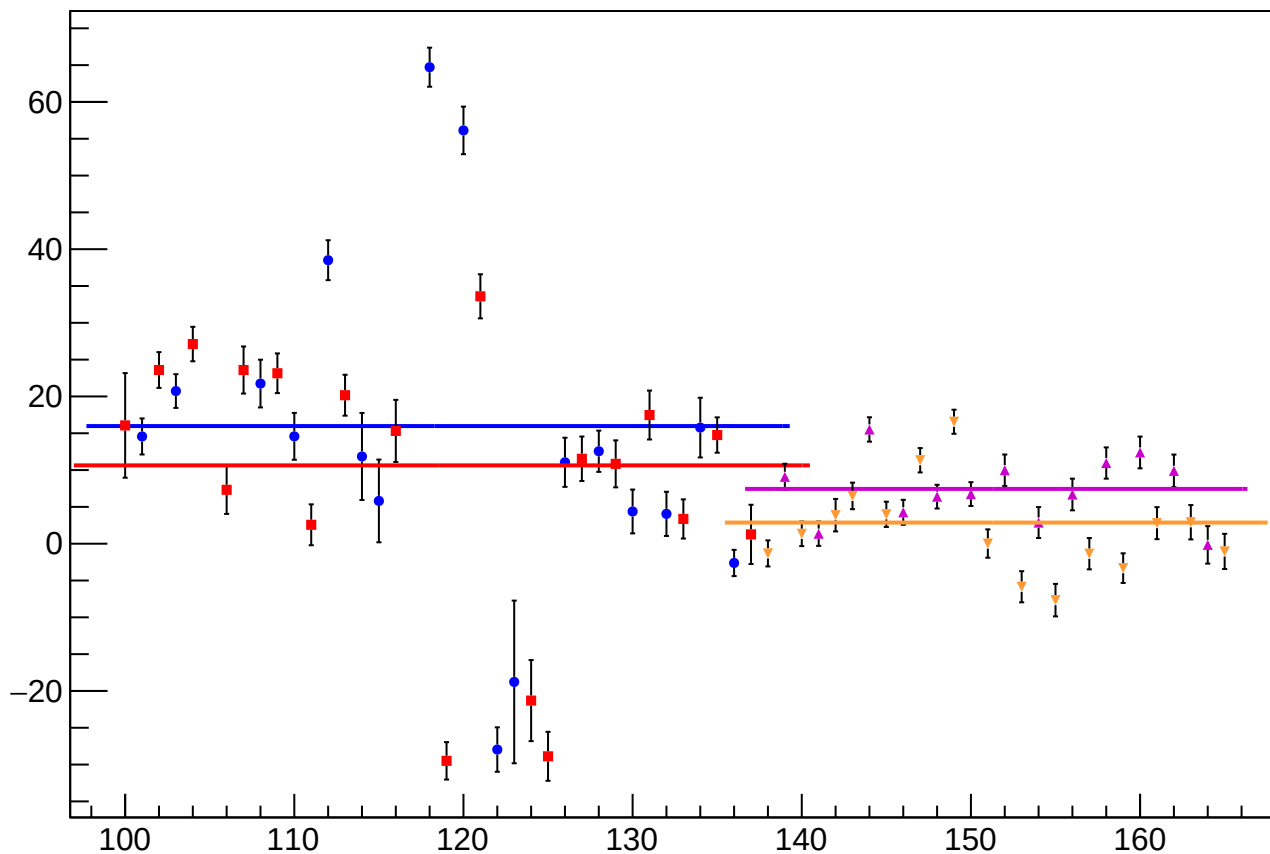
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1896.621+/-0.329 χ^2/NDF : 828341.8/29

Out: 1872.467+/-0.313 χ^2/NDF : 789501.6/33

All: 1883.949+/-0.227 χ^2/NDF : 1620665.3/63

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976+/-0.722 χ^2/NDF : 938.4/16

Left Out: 2.870+/-0.500 χ^2/NDF : 165.5/14

Right Out: 10.638+/-0.693 χ^2/NDF : 642.1/18

Left In: 7.441+/-0.525 χ^2/NDF : 66.7/12

Left: 5.040+/-0.362 χ^2/NDF : 272.0/27

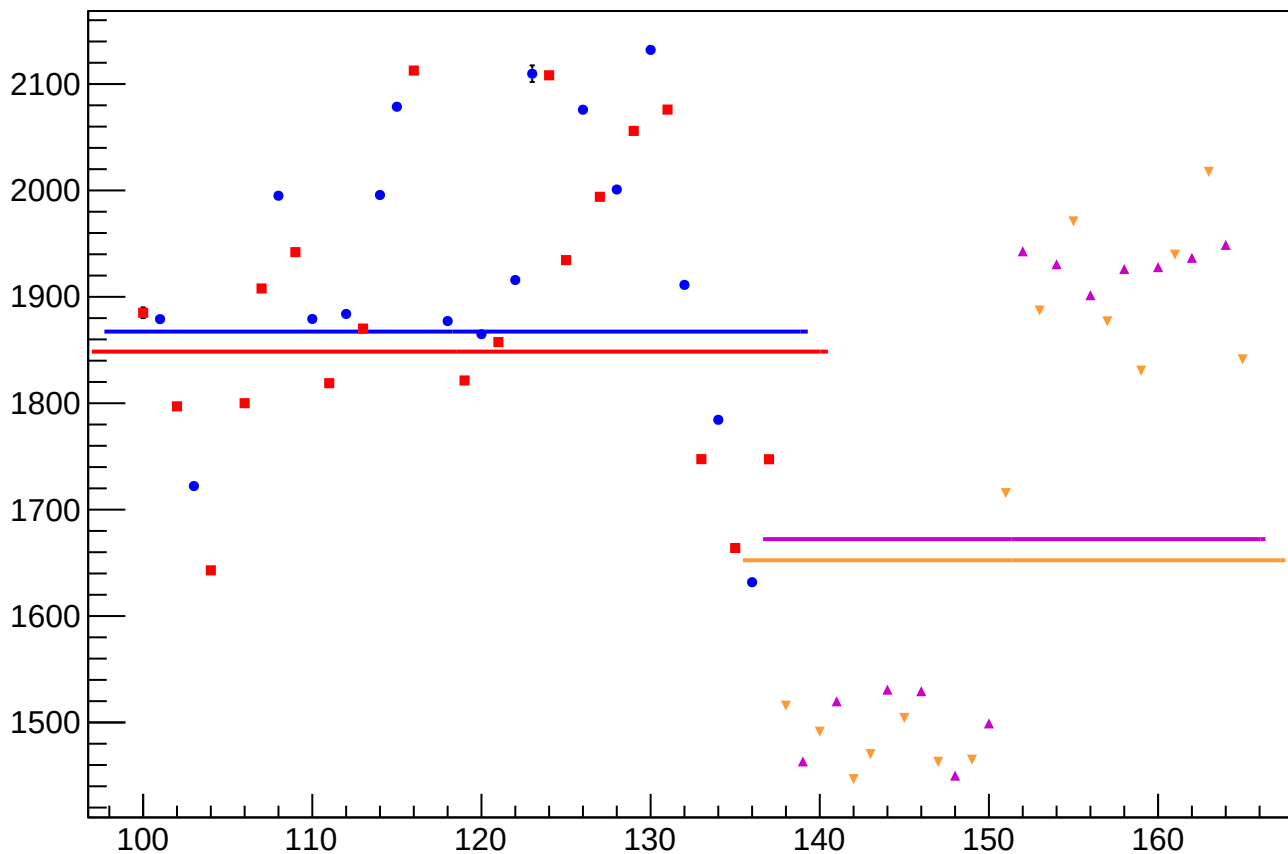
Right: 13.200+/-0.500 χ^2/NDF : 1608.9/35

In: 10.398+/-0.425 χ^2/NDF : 1096.5/29

Out: 5.524+/-0.405 χ^2/NDF : 890.2/33

All: 7.847+/-0.293 χ^2/NDF : 2055.7/63

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2/NDF : 80926.4/16

Left Out: 1652.411 $\pm$ 0.353 χ^2/NDF : 338588.4/14

Right Out: 1848.532 $\pm$ 0.490 χ^2/NDF : 72527.3/18

Left In: 1672.317 $\pm$ 0.372 χ^2/NDF : 328611.8/12

Left: 1661.862 $\pm$ 0.256 χ^2/NDF : 668708.1/27

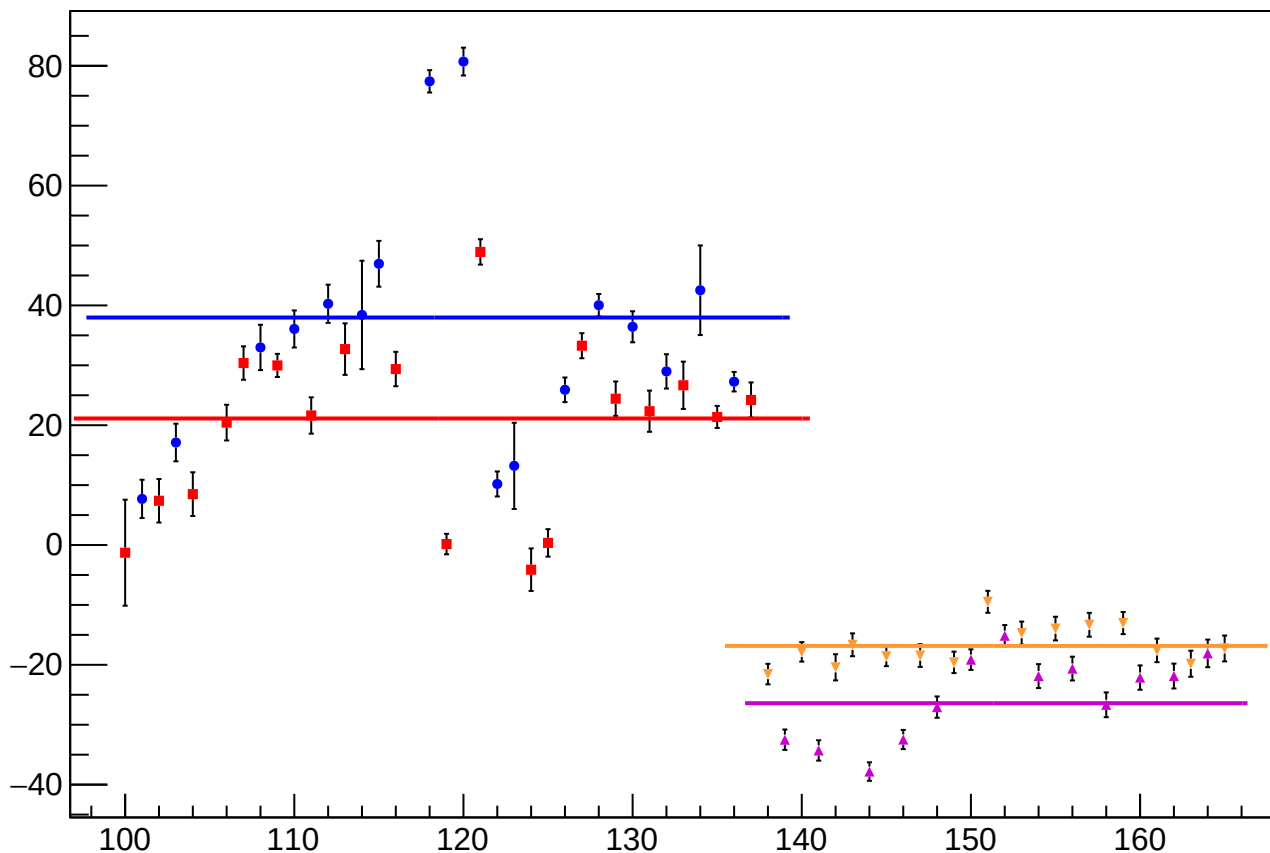
Right: 1857.561 $\pm$ 0.354 χ^2/NDF : 154160.4/35

In: 1739.884 $\pm$ 0.300 χ^2/NDF : 505008.9/29

Out: 1719.425 $\pm$ 0.287 χ^2/NDF : 516458.1/33

All: 1729.175 $\pm$ 0.207 χ^2/NDF : 1023895.9/63

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -16.840 ± 0.487 $\chi^2/\text{NDF}: 43.8/14$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -26.404 ± 0.508 $\chi^2/\text{NDF}: 197.2/12$

Left: -21.421 ± 0.352 $\chi^2/\text{NDF}: 425.4/27$

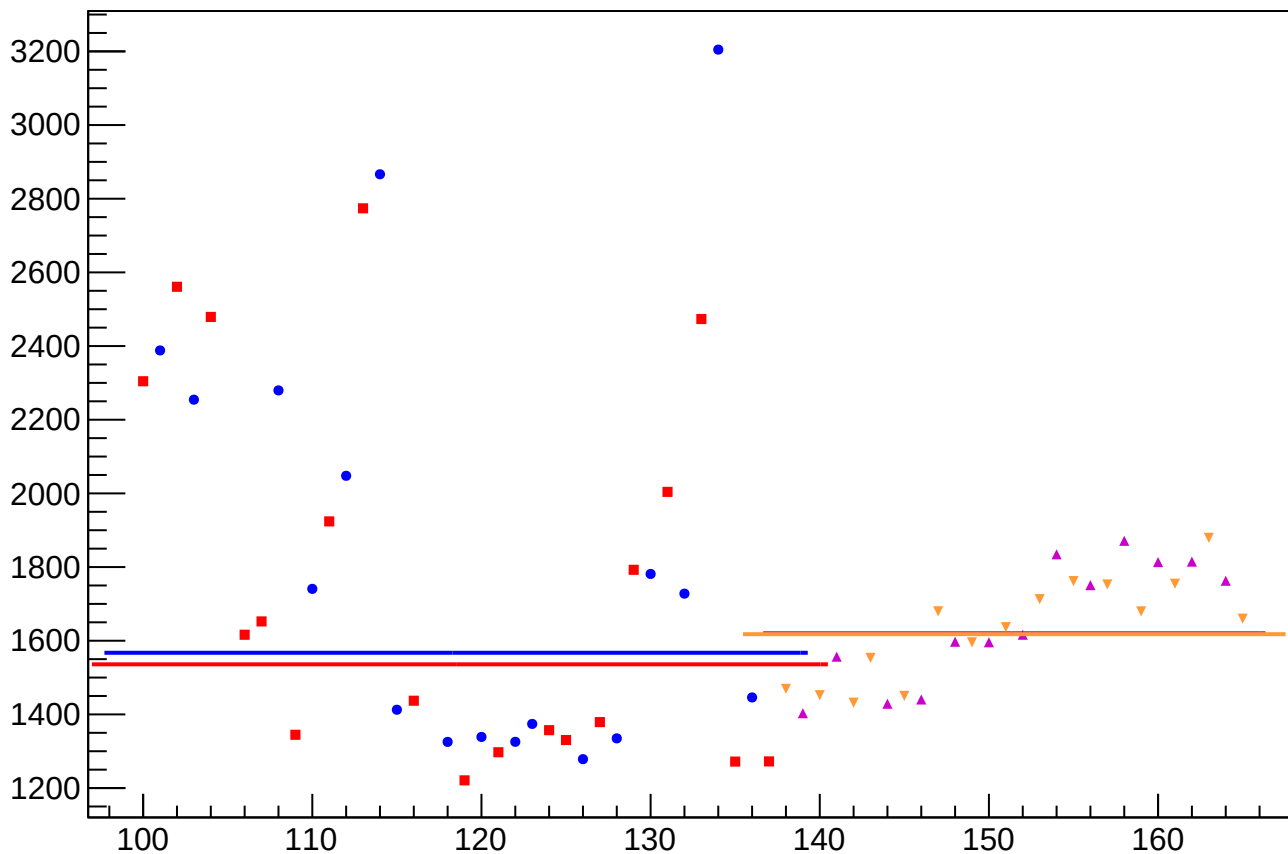
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -1.379 ± 0.397 $\chi^2/\text{NDF}: 7639.1/29$

Out: -2.001 ± 0.380 $\chi^2/\text{NDF}: 2989.7/33$

All: -1.704 ± 0.275 $\chi^2/\text{NDF}: 10630.1/63$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2/NDF : 673450.6/16

Left Out: 1617.756 $\pm$ 0.345 χ^2/NDF : 141941.5/14

Right Out: 1535.967 $\pm$ 0.430 χ^2/NDF : 882098.2/18

Left In: 1620.404 $\pm$ 0.359 χ^2/NDF : 196542.3/12

Left: 1619.024 $\pm$ 0.249 χ^2/NDF : 338512.1/27

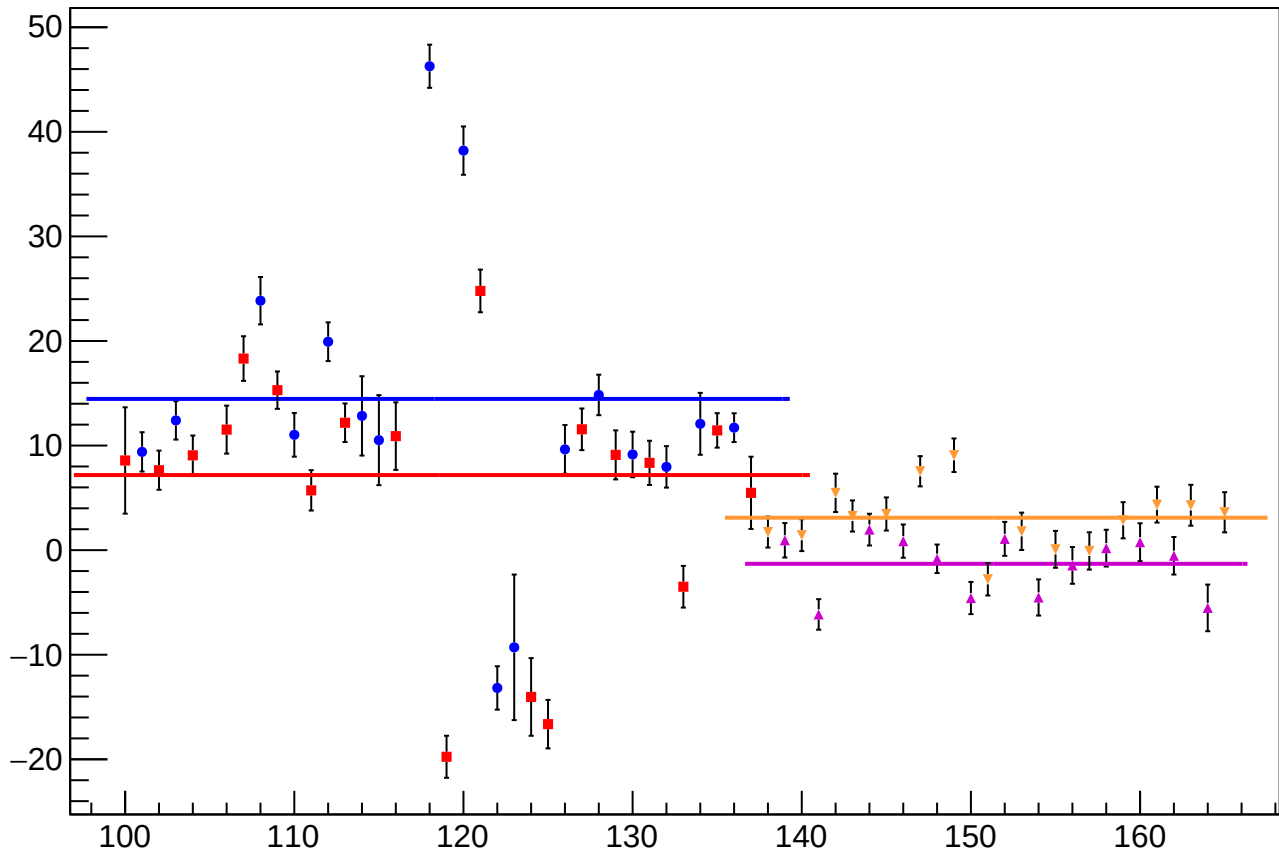
Right: 1550.918 $\pm$ 0.311 χ^2/NDF : 1558082.7/35

In: 1599.774 $\pm$ 0.281 χ^2/NDF : 878471.2/29

Out: 1585.787 $\pm$ 0.269 χ^2/NDF : 1046060.3/33

All: 1592.474 $\pm$ 0.194 χ^2/NDF : 1925824.8/63

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 $\pm$ 0.523 χ^2 /NDF: 595.9/16

Left Out: 3.100 $\pm$ 0.427 χ^2 /NDF: 49.1/14

Right Out: 7.181 $\pm$ 0.494 χ^2 /NDF: 495.7/18

Left In: -1.307 $\pm$ 0.456 χ^2 /NDF: 35.4/12

Left: 1.039 $\pm$ 0.312 χ^2 /NDF: 134.3/27

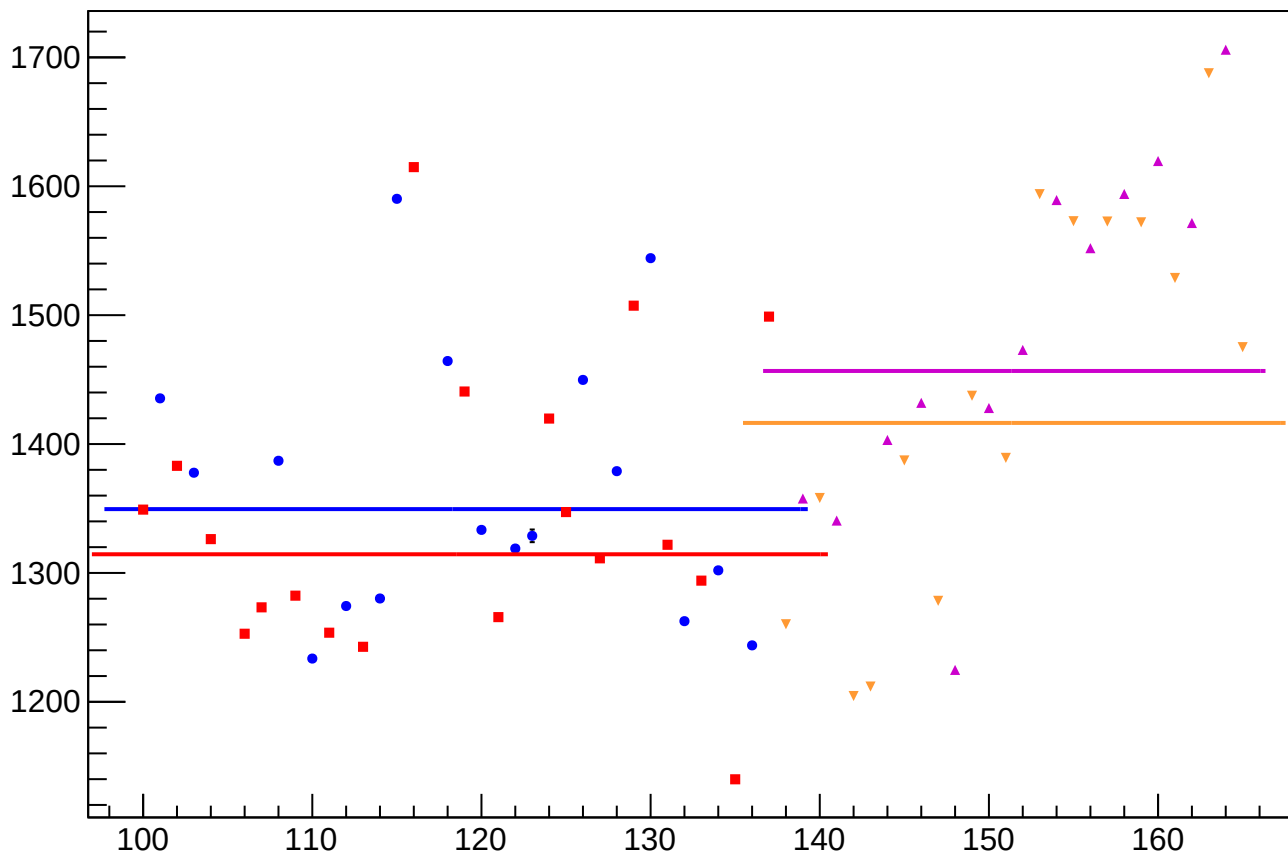
Right: 10.615 $\pm$ 0.359 χ^2 /NDF: 1193.9/35

In: 5.502 $\pm$ 0.344 χ^2 /NDF: 1147.4/29

Out: 4.846 $\pm$ 0.323 χ^2 /NDF: 583.8/33

All: 5.153 $\pm$ 0.236 χ^2 /NDF: 1733.1/63

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2/NDF : 64667.6/16

Left Out: 1416.394 $\pm$ 0.302 χ^2/NDF : 225586.7/14

Right Out: 1314.485 $\pm$ 0.350 χ^2/NDF : 80952.7/18

Left In: 1456.705 $\pm$ 0.323 χ^2/NDF : 160932.8/12

Left: 1435.242 $\pm$ 0.221 χ^2/NDF : 394837.0/27

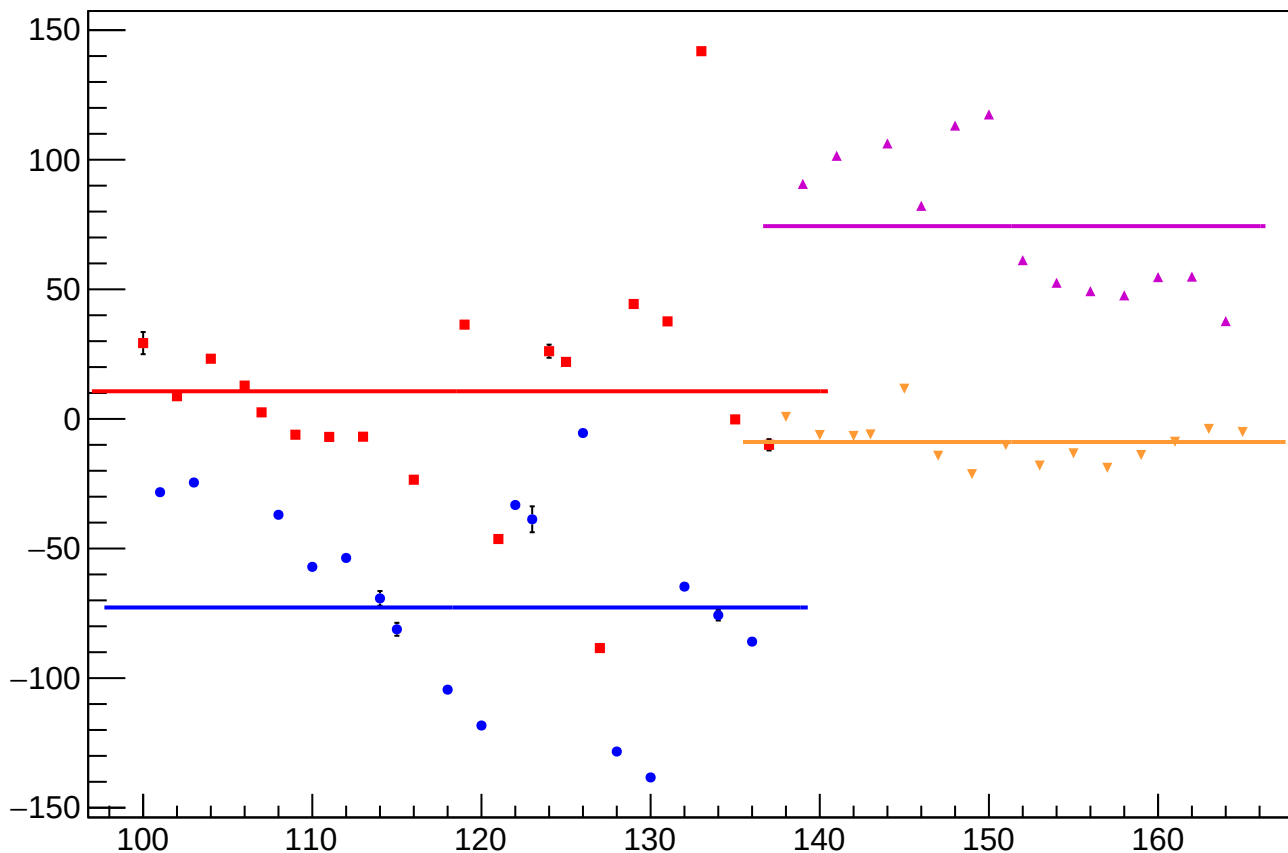
Right: 1331.011 $\pm$ 0.254 χ^2/NDF : 150358.7/35

In: 1410.423 $\pm$ 0.243 χ^2/NDF : 273291.1/29

Out: 1372.800 $\pm$ 0.229 χ^2/NDF : 355172.1/33

All: 1390.458 $\pm$ 0.167 χ^2/NDF : 641171.8/63

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741±/0.362 χ^2 /NDF: 11690.4/16

Left Out: -8.903±/0.282 χ^2 /NDF:838.6/14

Right Out: 10.671±/0.352 χ^2 /NDF: 18171.0/18

Left In: 74.381±/0.298 χ^2 /NDF:7821.8/12

Left: 30.488±/0.205 χ^2 /NDF: 49817.3/27

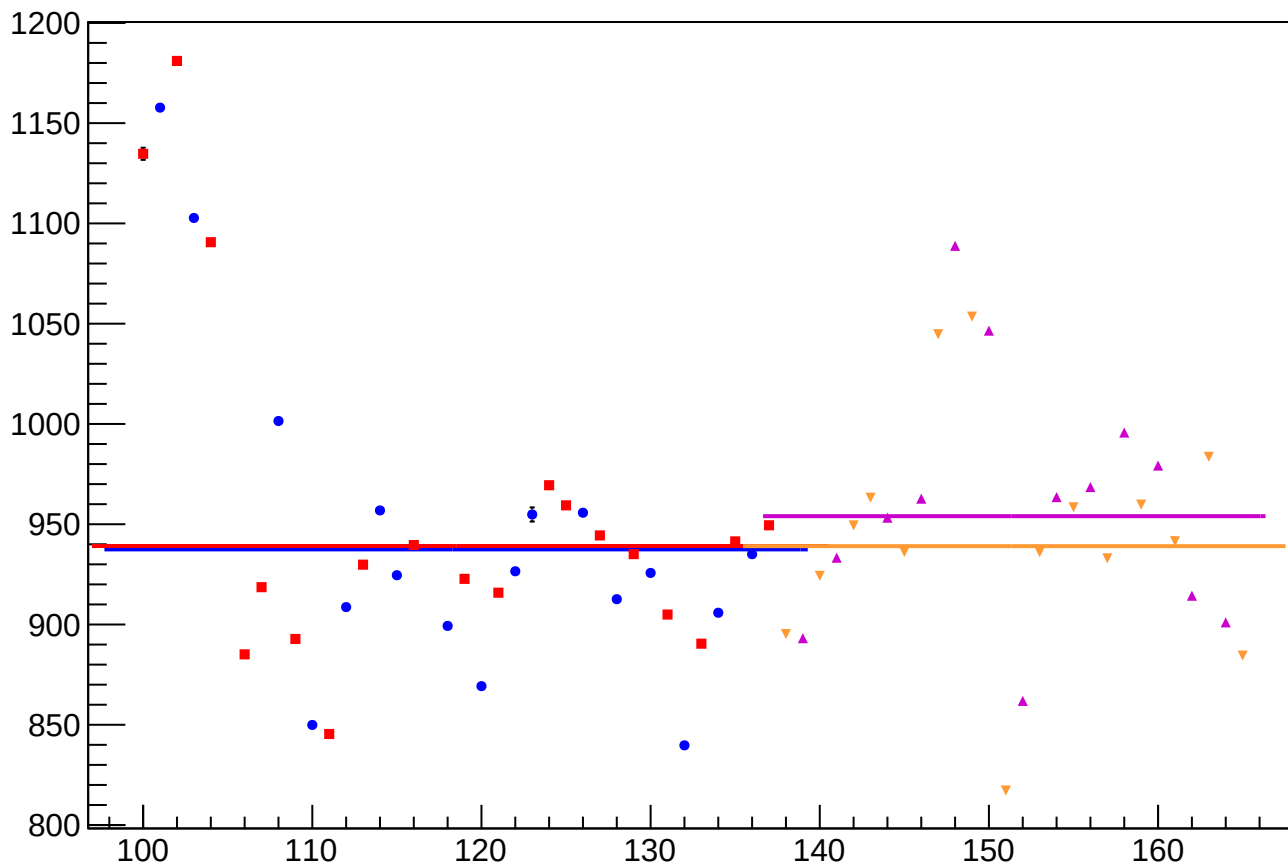
Right: -29.865±/0.253 χ^2 /NDF: 57099.2/35

In: 15.016±/0.230 χ^2 /NDF:117843.6/29

Out: -1.249±/0.220 χ^2 /NDF:20889.0/33

All: 6.528±/0.159 χ^2 /NDF: 141338.6/63

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 $\chi^2/\text{NDF}: 98307.6/16$

Left Out: 939.067 ± 0.200 $\chi^2/\text{NDF}: 84668.7/14$

Right Out: 939.140 ± 0.249 $\chi^2/\text{NDF}: 90253.2/18$

Left In: 954.019 ± 0.211 $\chi^2/\text{NDF}: 75798.7/12$

Left: 946.139 ± 0.145 $\chi^2/\text{NDF}: 163120.5/27$

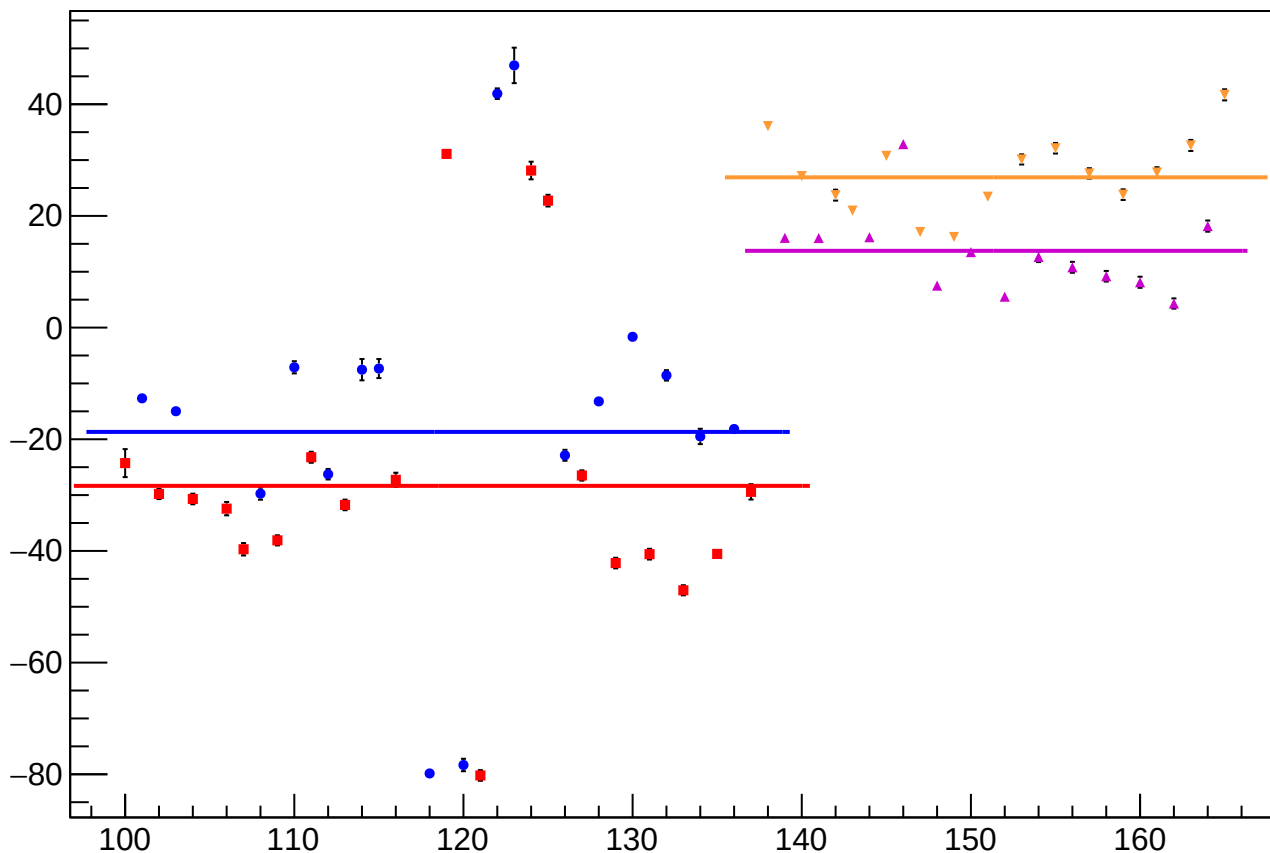
Right: 938.320 ± 0.179 $\chi^2/\text{NDF}: 188583.1/35$

In: 947.335 ± 0.163 $\chi^2/\text{NDF}: 176599.7/29$

Out: 939.096 ± 0.156 $\chi^2/\text{NDF}: 174922.0/33$

All: 943.035 ± 0.113 $\chi^2/\text{NDF}: 352859.1/63$

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 $\pm$ 0.243 χ^2/NDF : 13006.2/16

Left Out: 26.912 $\pm$ 0.217 χ^2/NDF :924.5/14

Right Out: -28.347 $\pm$ 0.235 χ^2/NDF : 12508.1/18

Left In: 13.746 $\pm$ 0.230 χ^2/NDF :1031.4/12

Left: 20.690 $\pm$ 0.158 χ^2/NDF : 3689.5/27

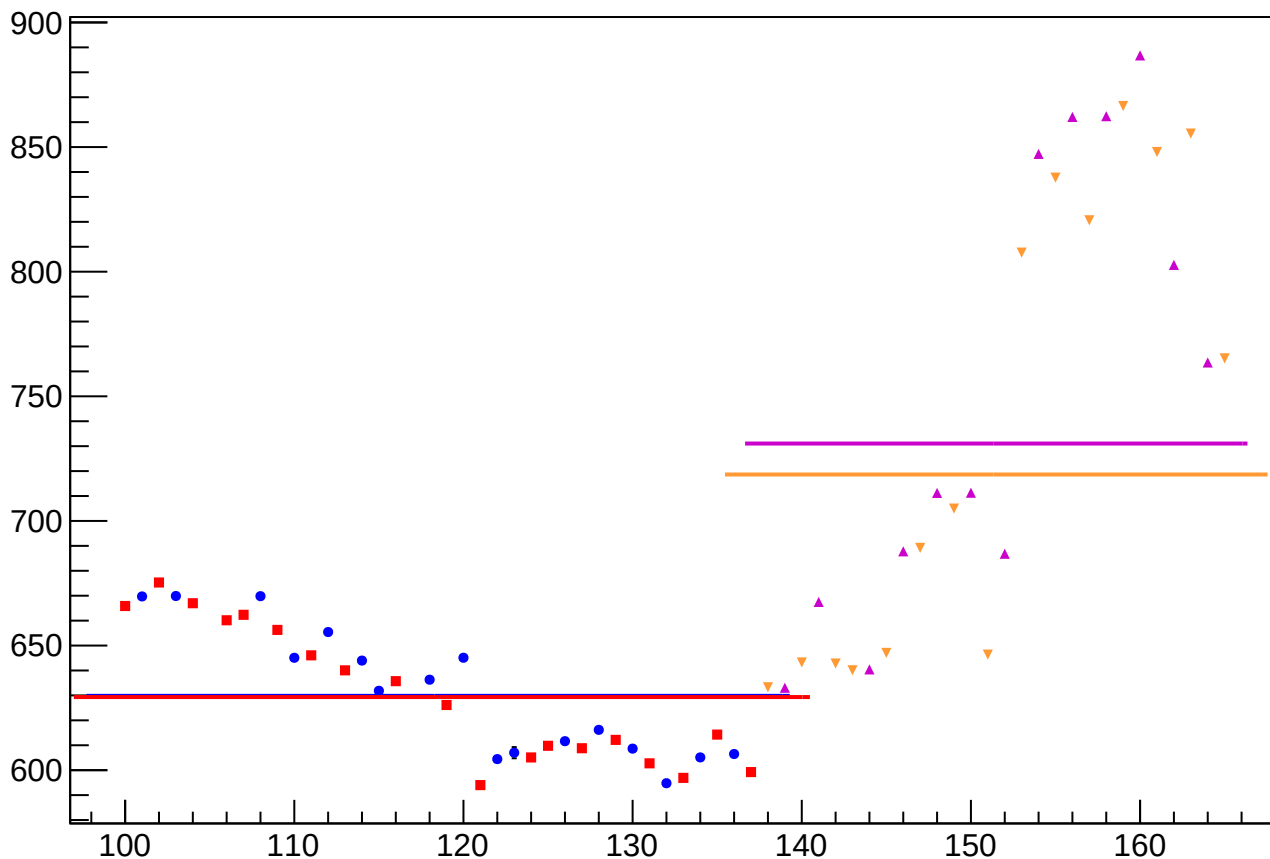
Right: -23.660 $\pm$ 0.169 χ^2/NDF : 26331.1/35

In: -1.575 $\pm$ 0.167 χ^2/NDF :23459.8/29

Out: 1.484 $\pm$ 0.160 χ^2/NDF :43165.5/33

All: 0.021 $\pm$ 0.115 χ^2/NDF : 66800.7/63

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 718.634+/-0.154 χ^2/NDF : 325348.0/14

Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18

Left In: 731.055+/-0.162 χ^2/NDF : 266952.3/12

Left: 724.505+/-0.112 χ^2/NDF : 595386.6/27

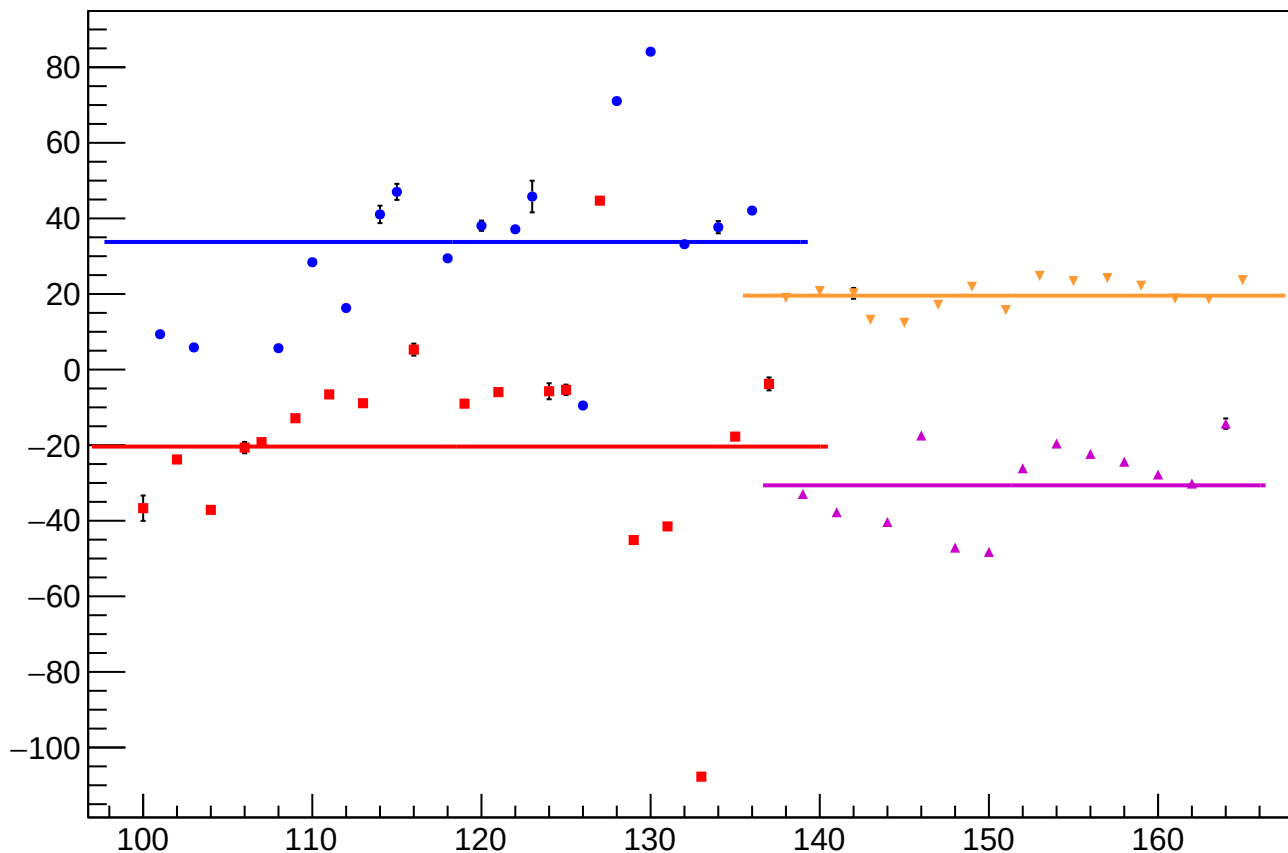
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 683.225+/-0.118 χ^2/NDF : 473910.9/29

Out: 677.544+/-0.113 χ^2/NDF : 506163.5/33

All: 680.261+/-0.082 χ^2/NDF : 981284.9/63

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2/NDF : 6487.9/16

Left Out: 19.569+/-0.310 χ^2/NDF :147.6/14

Right Out: -20.375+/-0.293 χ^2/NDF : 11287.7/18

Left In: -30.631+/-0.323 χ^2/NDF :1037.0/12

Left: -4.434+/-0.224 χ^2/NDF : 13760.4/27

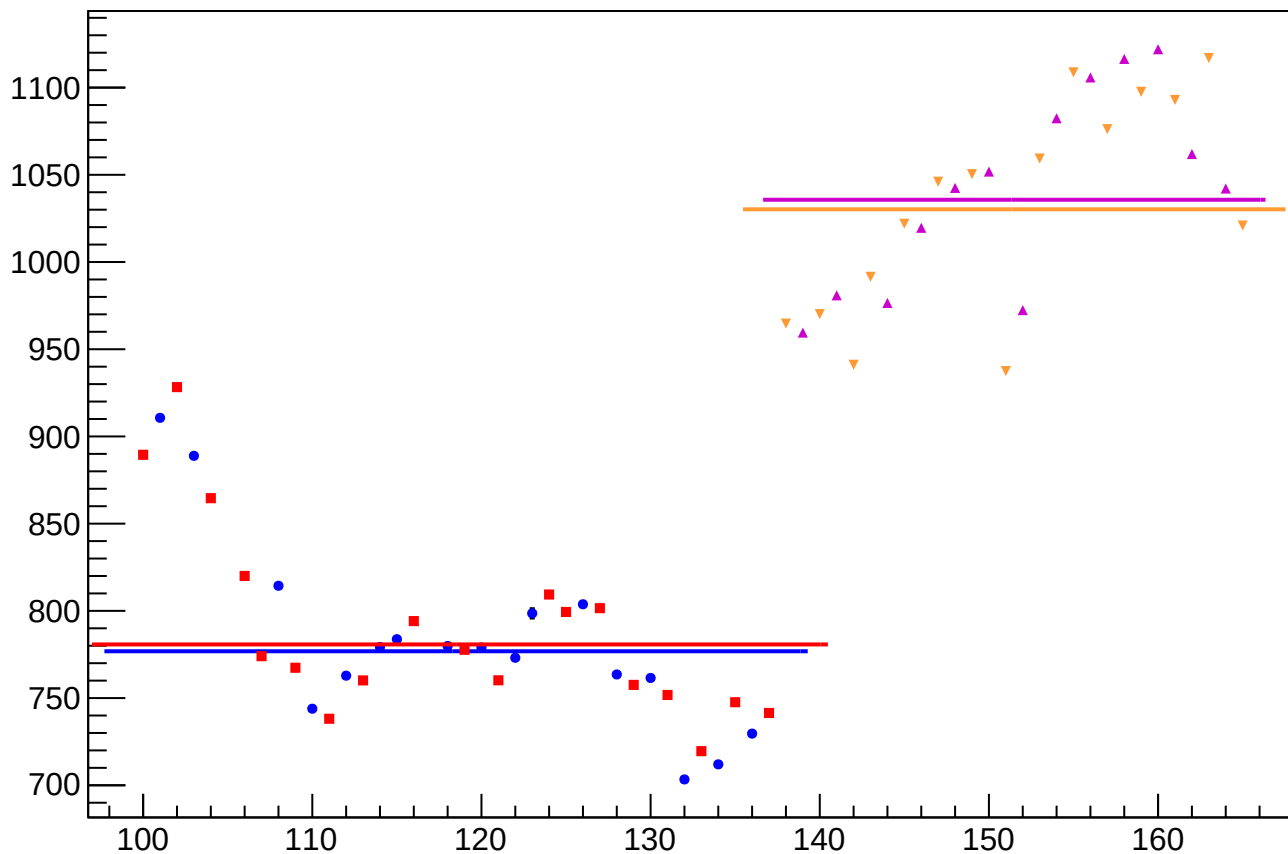
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 3.994+/-0.220 χ^2/NDF :28849.5/29

Out: -1.531+/-0.213 χ^2/NDF :20231.5/33

All: 1.139+/-0.153 χ^2/NDF : 49407.3/63

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 ± 0.212 χ^2/NDF : 67487.1/16

Left Out: 1030.218 ± 0.219 χ^2/NDF : 71968.0/14

Right Out: 780.755 ± 0.207 χ^2/NDF : 57428.9/18

Left In: 1035.700 ± 0.229 χ^2/NDF : 56421.0/12

Left: 1032.840 ± 0.158 χ^2/NDF : 128688.9/27

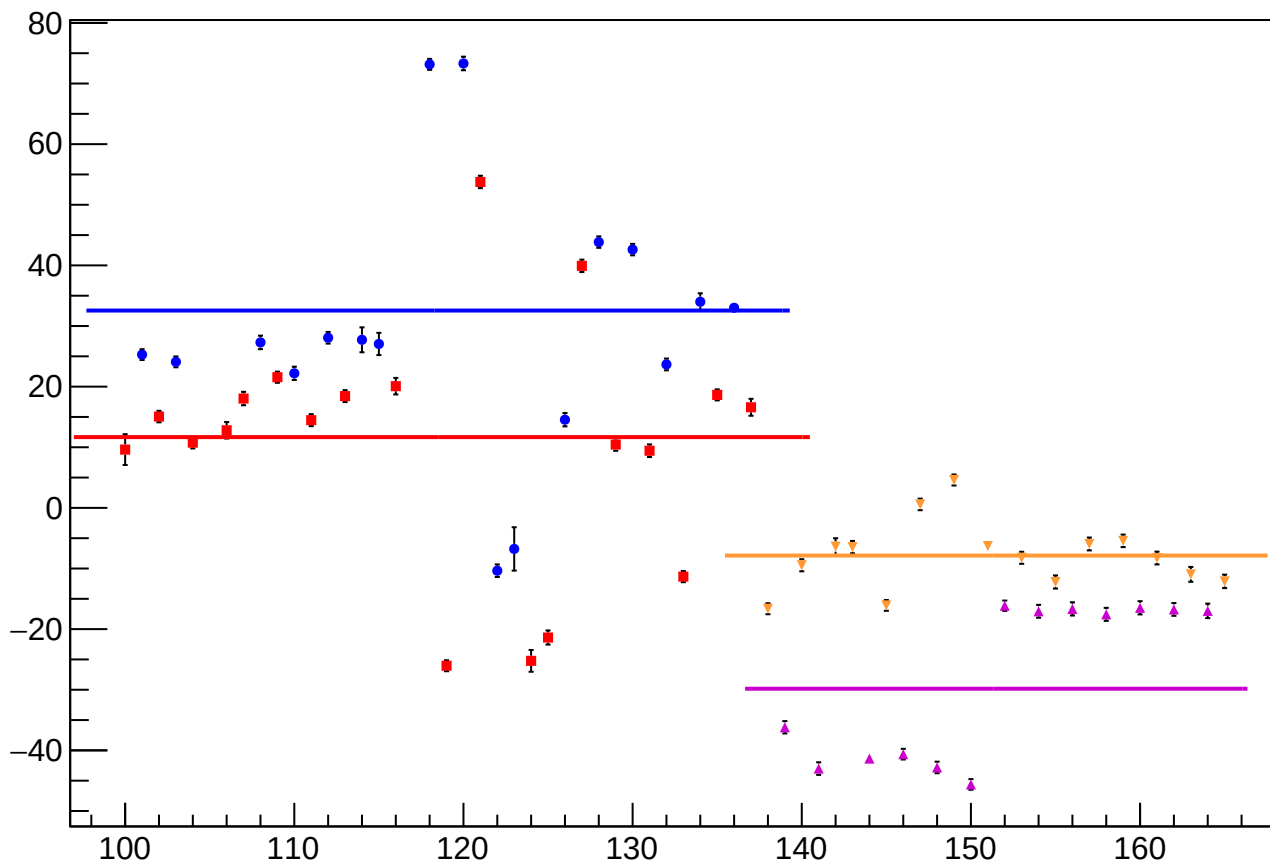
Right: 778.845 ± 0.148 χ^2/NDF : 125090.9/35

In: 896.529 ± 0.155 χ^2/NDF : 812916.3/29

Out: 898.443 ± 0.150 χ^2/NDF : 815600.1/33

All: 897.519 ± 0.108 χ^2/NDF : 1628594.7/63

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -7.861 ± 0.260 χ^2/NDF : 499.5/14

Right Out: 11.674 ± 0.247 χ^2/NDF : 6357.6/18

Left In: -29.830 ± 0.273 χ^2/NDF : 2146.7/12

Left: -18.327 ± 0.188 χ^2/NDF : 6040.9/27

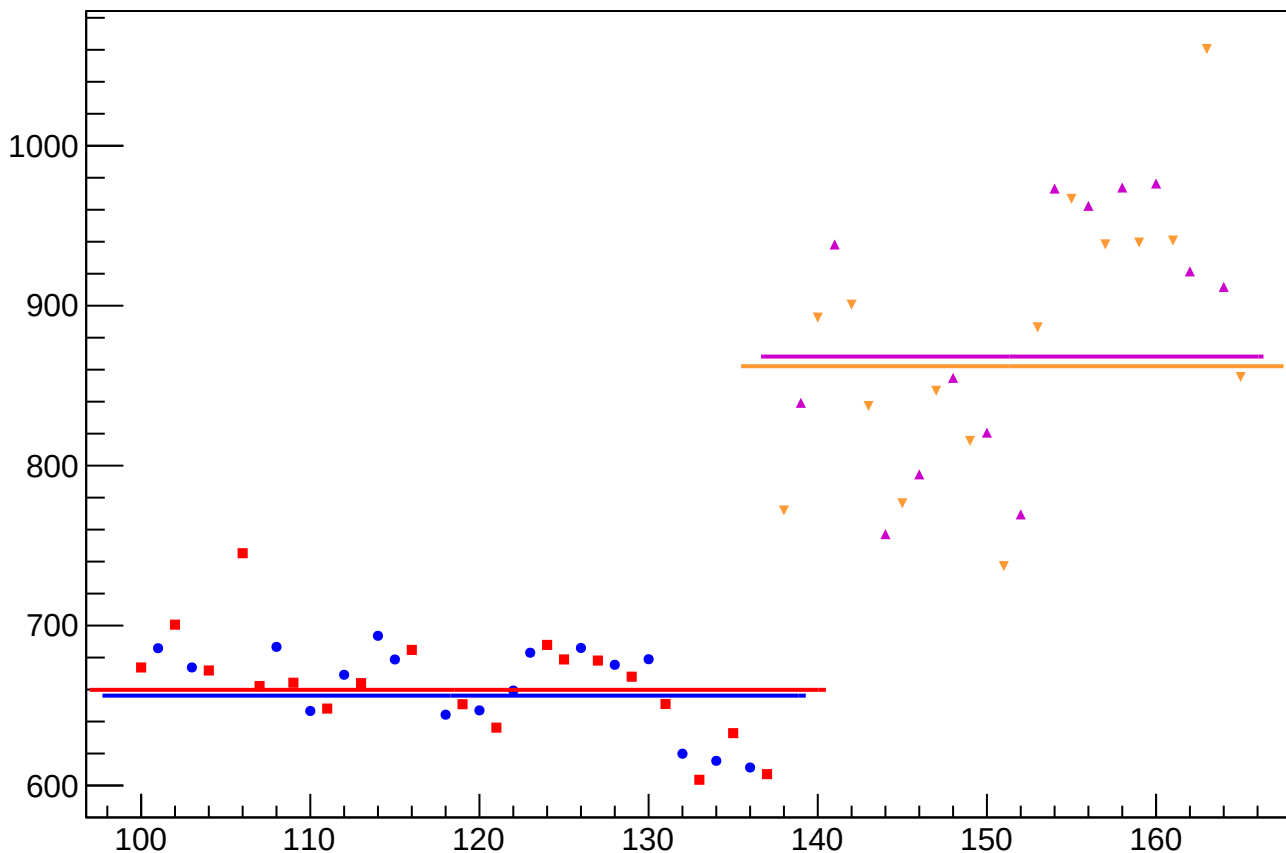
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: 3.729 ± 0.185 χ^2/NDF : 36341.1/29

Out: 2.417 ± 0.179 χ^2/NDF : 9821.3/33

All: 3.050 ± 0.129 χ^2/NDF : 46188.2/63

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 $\pm$ 0.179 χ^2 /NDF: 23569.6/16

Left Out: 862.158 $\pm$ 0.184 χ^2 /NDF: 199365.0/14

Right Out: 659.813 $\pm$ 0.175 χ^2 /NDF: 28325.7/18

Left In: 868.208 $\pm$ 0.193 χ^2 /NDF: 174824.8/12

Left: 865.040 $\pm$ 0.133 χ^2 /NDF: 374704.6/27

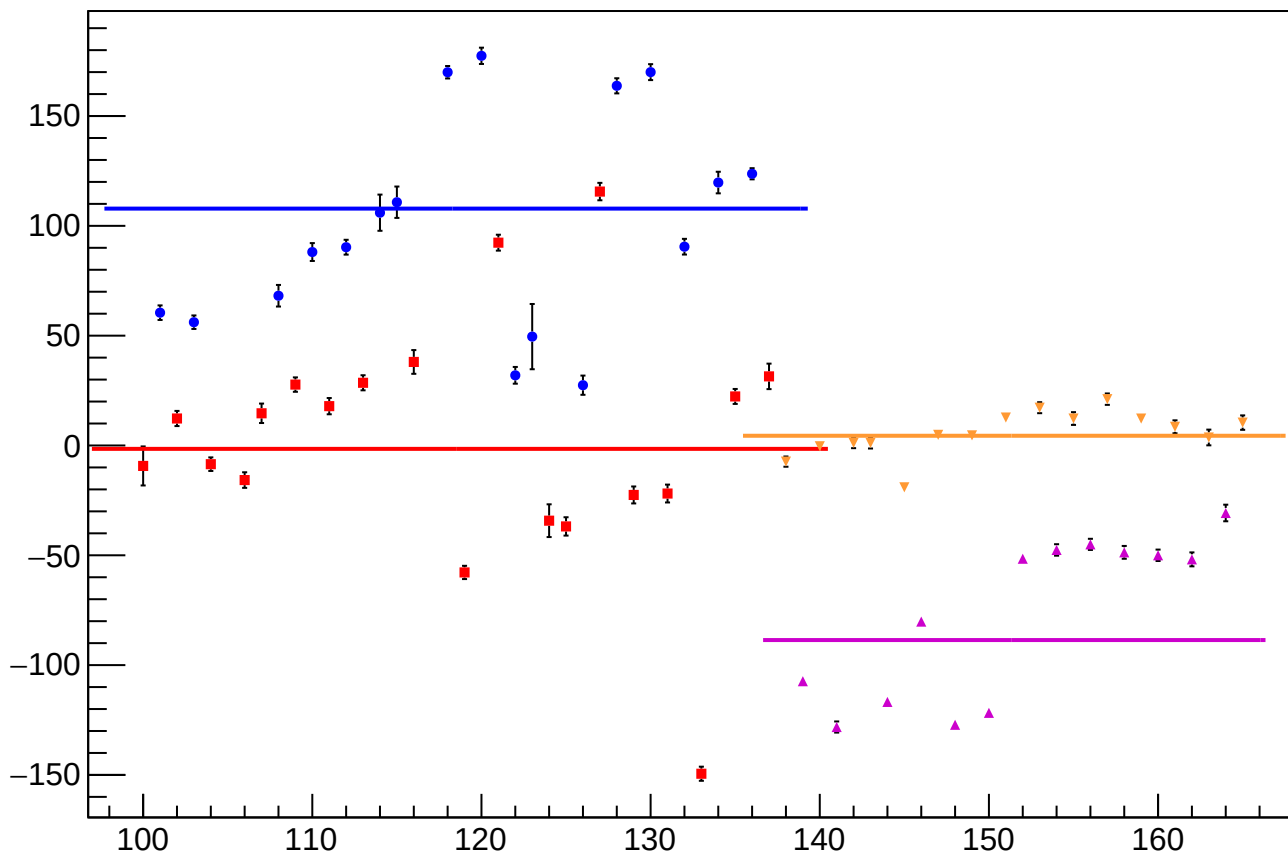
Right: 658.039 $\pm$ 0.125 χ^2 /NDF: 52106.5/35

In: 754.146 $\pm$ 0.131 χ^2 /NDF: 848112.5/29

Out: 755.695 $\pm$ 0.127 χ^2 /NDF: 863753.9/33

All: 754.948 $\pm$ 0.091 χ^2 /NDF: 1711938.5/63

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 4.425 ± 0.605 $\chi^2/\text{NDF}: 275.0/14$

Right Out: -1.542 ± 0.883 $\chi^2/\text{NDF}: 4523.8/18$

Left In: -88.597 ± 0.626 $\chi^2/\text{NDF}: 2958.3/12$

Left: -40.475 ± 0.435 $\chi^2/\text{NDF}: 14662.3/27$

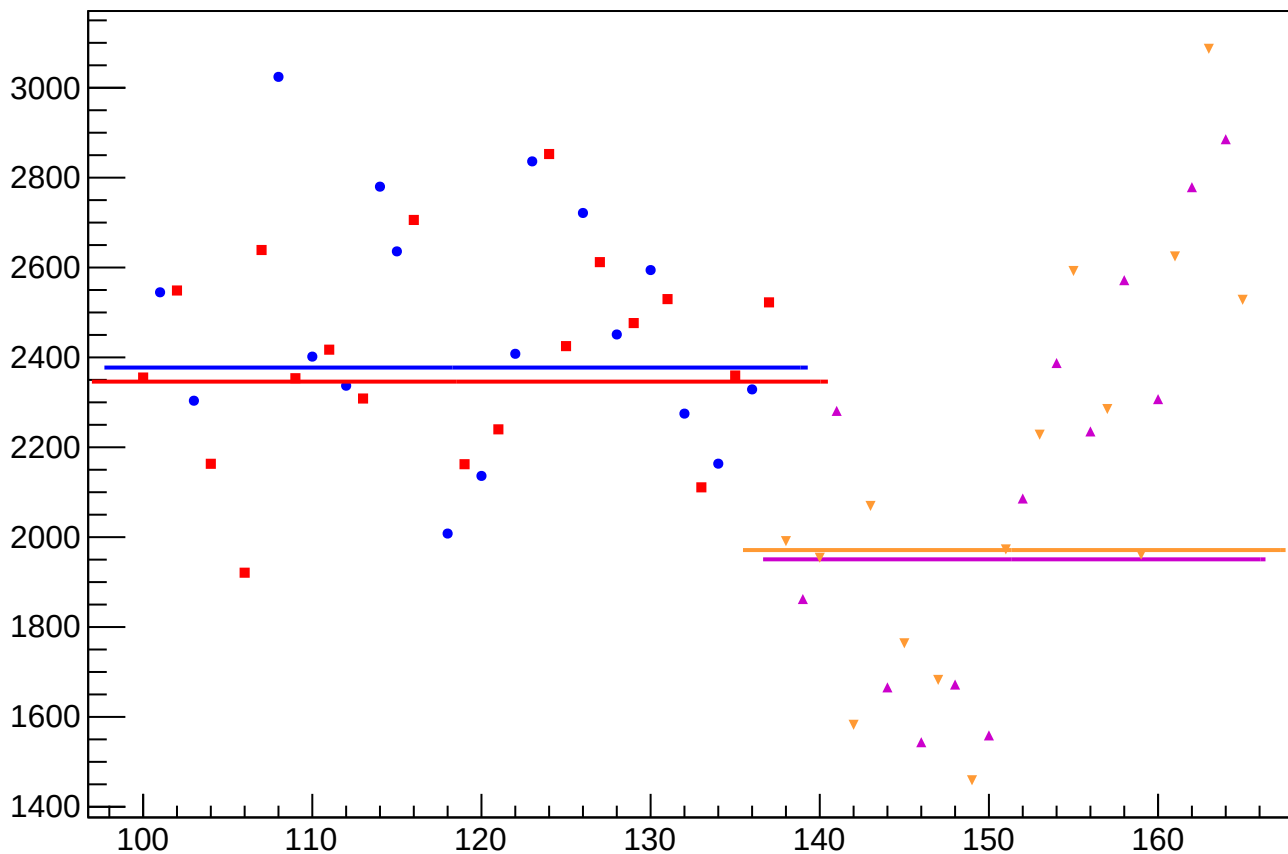
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -26.591 ± 0.518 $\chi^2/\text{NDF}: 36867.4/29$

Out: 2.522 ± 0.499 $\chi^2/\text{NDF}: 4829.8/33$

All: -11.495 ± 0.359 $\chi^2/\text{NDF}: 43336.8/63$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423 ± 0.652 $\chi^2/\text{NDF}: 119648.6/16$

Left Out: 1971.291 ± 0.427 $\chi^2/\text{NDF}: 810418.0/14$

Right Out: 2346.121 ± 0.625 $\chi^2/\text{NDF}: 108257.3/18$

Left In: 1950.640 ± 0.443 $\chi^2/\text{NDF}: 826448.5/12$

Left: 1961.323 ± 0.307 $\chi^2/\text{NDF}: 1637993.0/27$

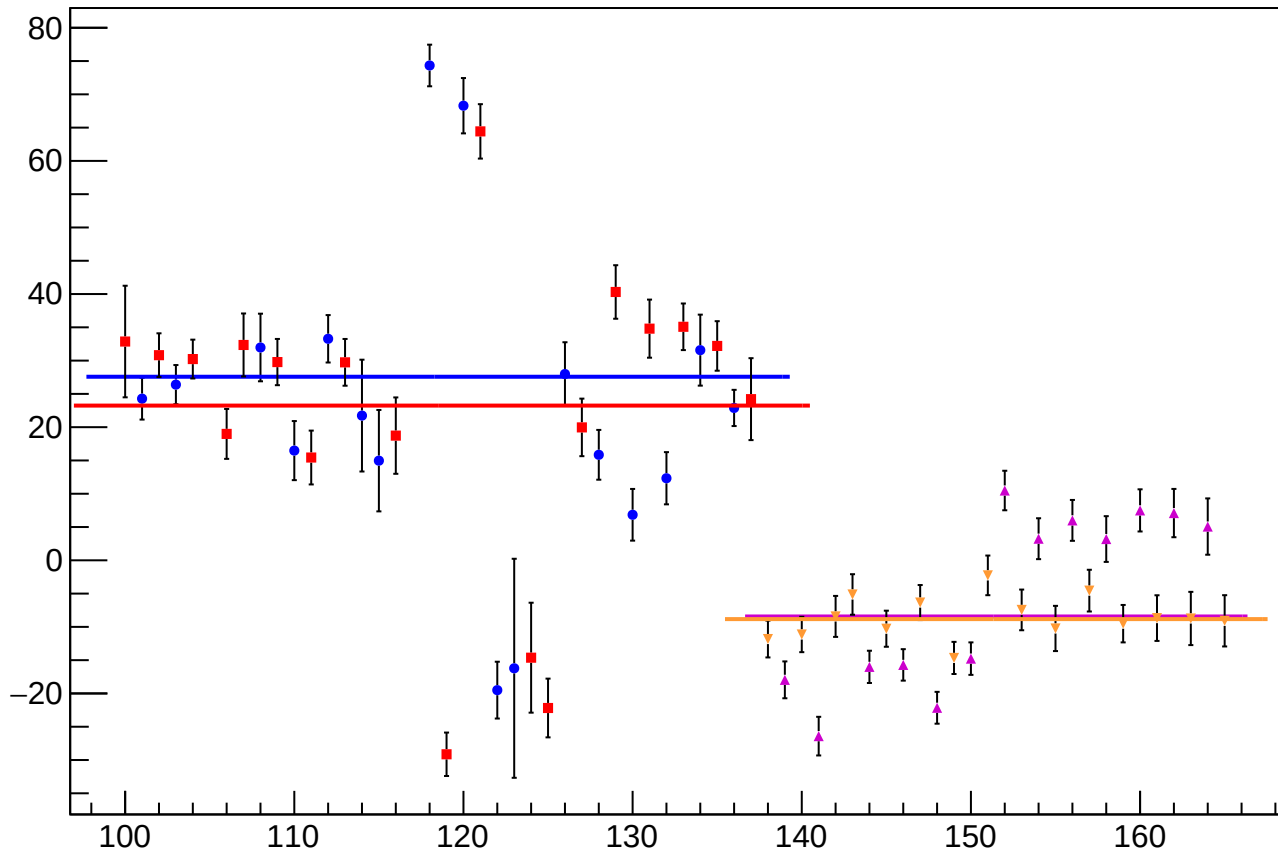
Right: 2361.109 ± 0.451 $\chi^2/\text{NDF}: 229108.5/35$

In: 2085.348 ± 0.366 $\chi^2/\text{NDF}: 1239663.9/29$

Out: 2090.854 ± 0.353 $\chi^2/\text{NDF}: 1163937.6/33$

All: 2088.203 ± 0.254 $\chi^2/\text{NDF}: 2403718.8/63$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -8.832 ± 0.770 $\chi^2/\text{NDF}: 17.6/14$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.438 ± 0.795 $\chi^2/\text{NDF}: 251.5/12$

Left: -8.641 ± 0.553 $\chi^2/\text{NDF}: 269.3/27$

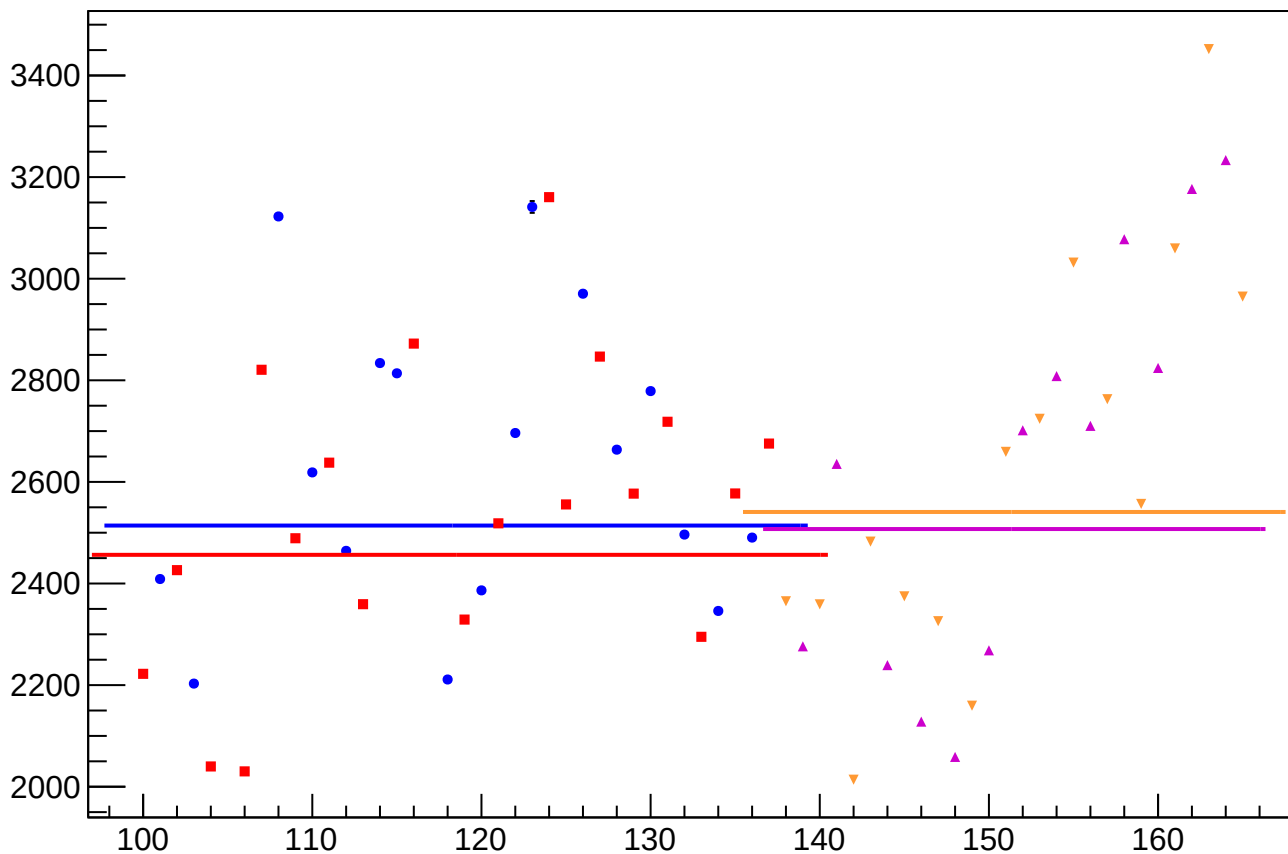
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 5.943 ± 0.616 $\chi^2/\text{NDF}: 1591.1/29$

Out: 4.258 ± 0.592 $\chi^2/\text{NDF}: 1284.1/33$

All: 5.067 ± 0.427 $\chi^2/\text{NDF}: 2879.1/63$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 ± 0.689 χ^2/NDF : 120961.3/16

Left Out: 2540.834 ± 0.544 χ^2/NDF : 383623.6/14

Right Out: 2456.460 ± 0.655 χ^2/NDF : 149732.7/18

Left In: 2507.226 ± 0.562 χ^2/NDF : 422005.3/12

Left: 2524.568 ± 0.391 χ^2/NDF : 807474.3/27

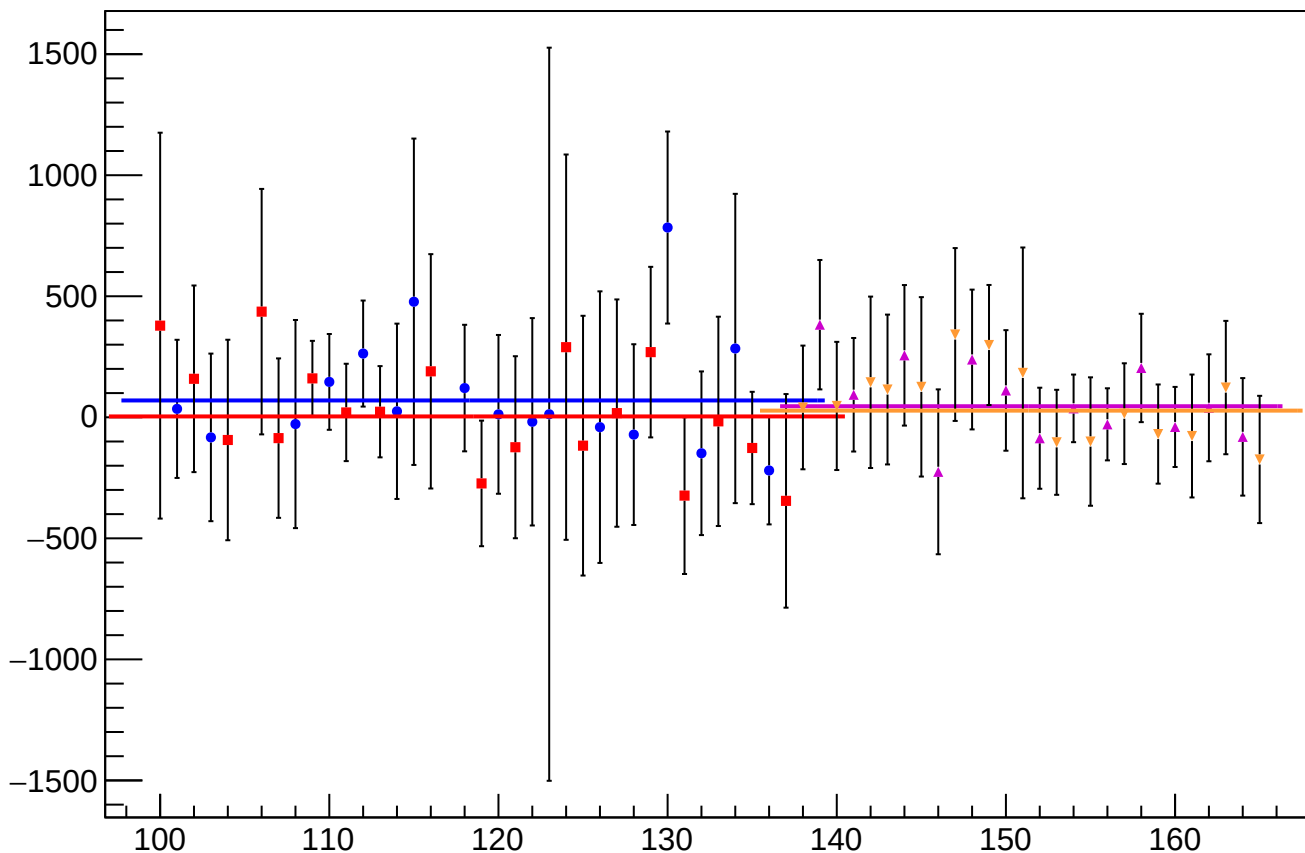
Right: 2483.827 ± 0.475 χ^2/NDF : 274364.7/35

In: 2509.966 ± 0.436 χ^2/NDF : 543026.1/29

Out: 2506.402 ± 0.419 χ^2/NDF : 543163.6/33

All: 2508.114 ± 0.302 χ^2/NDF : 1086224.5/63

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.587 $\pm$ 79.023 χ^2 /NDF: 7.3/16

Left Out: 27.577 $\pm$ 69.224 χ^2 /NDF:4.0/14

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 45.681 $\pm$ 58.310 χ^2 /NDF:5.0/12

Left: 38.167 $\pm$ 44.597 χ^2 /NDF: 9.1/27

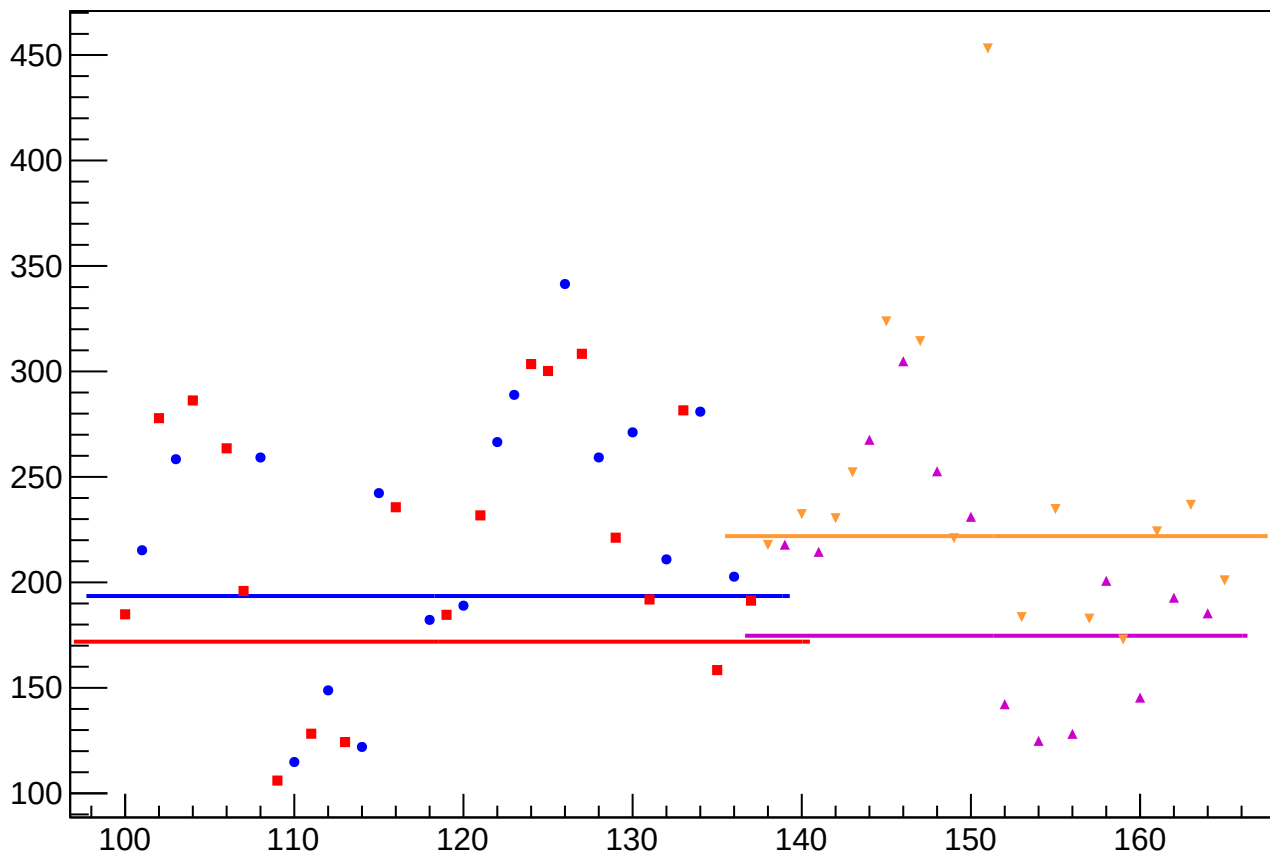
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 54.108 $\pm$ 46.919 χ^2 /NDF:12.4/29

Out: 15.700 $\pm$ 49.214 χ^2 /NDF:10.5/33

All: 35.820 $\pm$ 33.959 χ^2 /NDF: 23.2/63

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533+/-0.056 χ^2/NDF : 1010428.2/16

Left Out: 221.930+/-0.049 χ^2/NDF : 978250.5/14

Right Out: 171.901+/-0.049 χ^2/NDF : 1576883.7/18

Left In: 174.705+/-0.041 χ^2/NDF : 1459962.9/12

Left: 194.306+/-0.032 χ^2/NDF : 2982698.0/27

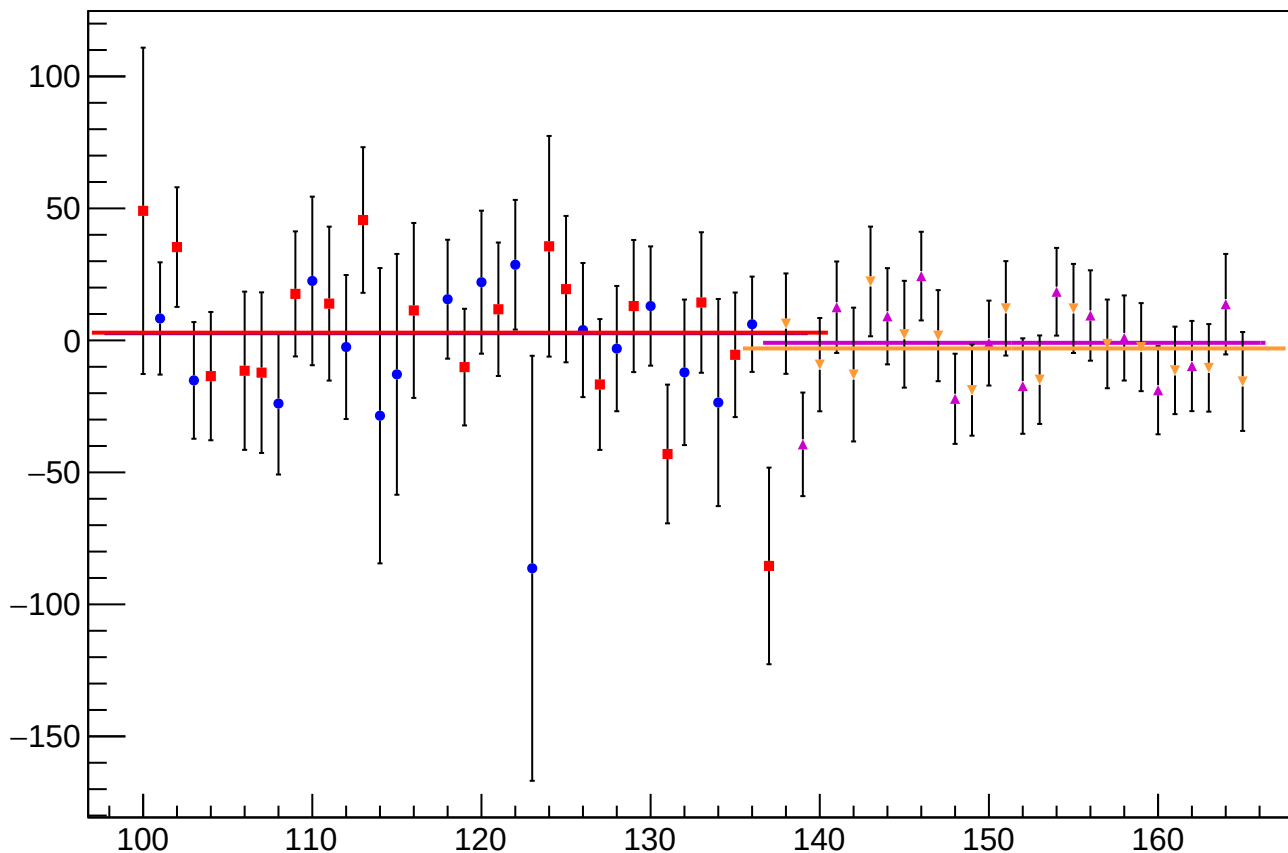
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 181.343+/-0.033 χ^2/NDF : 2543898.8/29

Out: 197.187+/-0.035 χ^2/NDF : 3071794.4/33

All: 188.887+/-0.024 χ^2/NDF : 5724291.7/63

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 $\pm$ 6.424 χ^2 /NDF: 6.8/16

Left Out: -3.050 $\pm$ 4.639 χ^2 /NDF:5.9/14

Right Out: 2.928 $\pm$ 6.279 χ^2 /NDF: 17.8/18

Left In: -0.917 $\pm$ 4.795 χ^2 /NDF:13.1/12

Left: -2.019 $\pm$ 3.334 χ^2 /NDF: 19.2/27

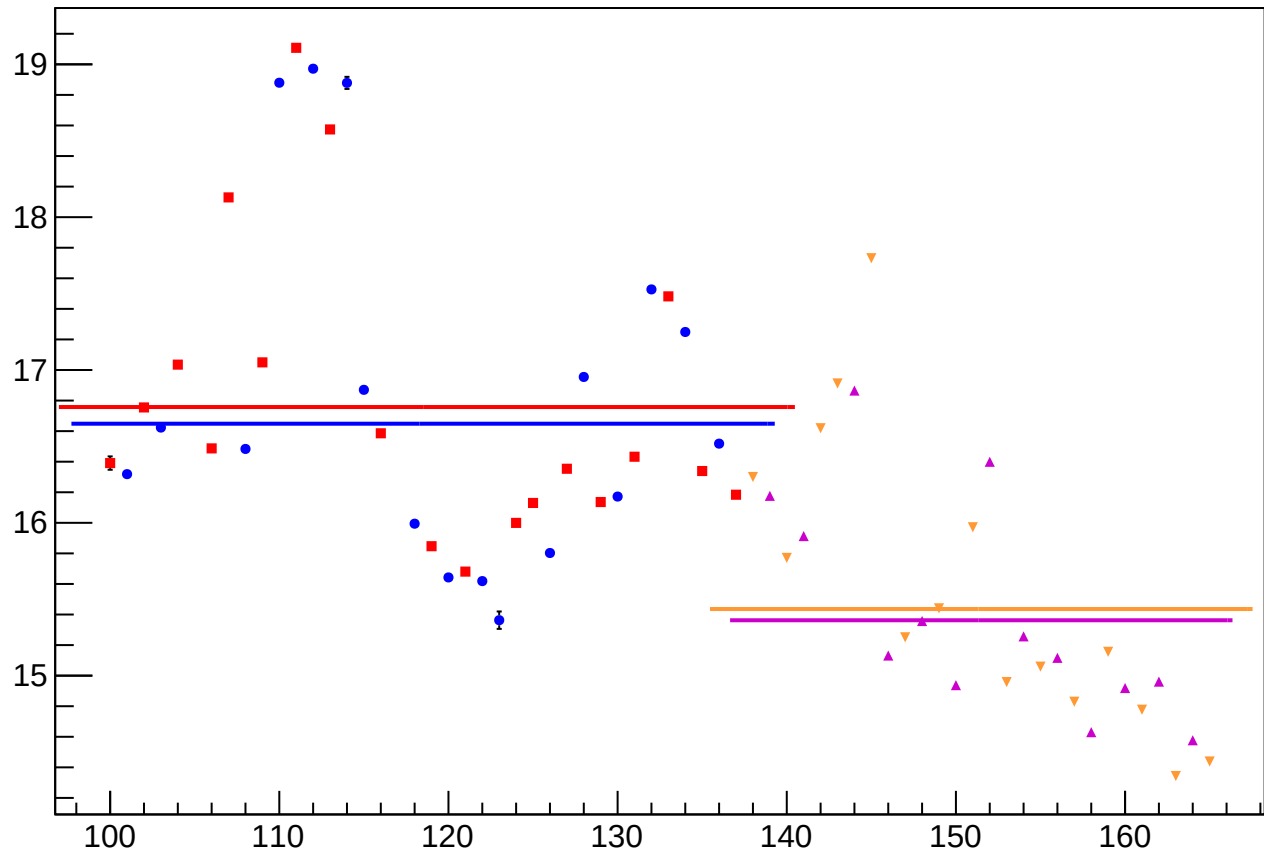
Right: 2.833 $\pm$ 4.490 χ^2 /NDF: 24.5/35

In: 0.389 $\pm$ 3.843 χ^2 /NDF:20.1/29

Out: -0.939 $\pm$ 3.731 χ^2 /NDF:24.3/33

All: -0.294 $\pm$ 2.677 χ^2 /NDF: 44.4/63

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.649 $\pm$ 0.005 χ^2 /NDF: 42566.9/16

Left Out: 15.436 $\pm$ 0.003 χ^2 /NDF: 70371.7/14

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.362 $\pm$ 0.003 χ^2 /NDF: 37949.4/12

Left: 15.400 $\pm$ 0.002 χ^2 /NDF: 108565.0/27

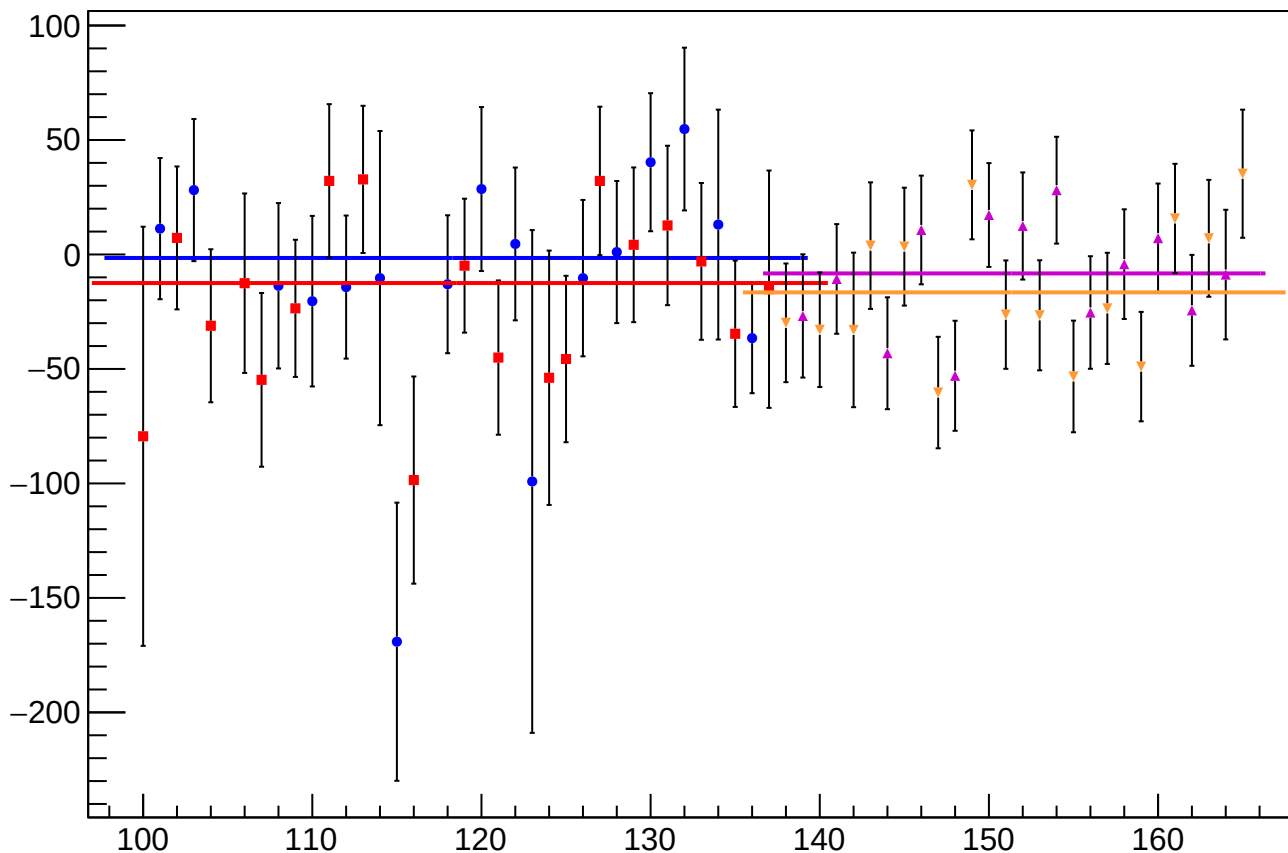
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.823 $\pm$ 0.003 χ^2 /NDF: 131997.7/29

Out: 15.903 $\pm$ 0.003 χ^2 /NDF: 167643.0/33

All: 15.864 $\pm$ 0.002 χ^2 /NDF: 300090.3/63

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.523 ± 8.485 χ^2/NDF : 17.6/16

Left Out: -16.562 ± 6.530 χ^2/NDF : 19.8/14

Right Out: -12.475 ± 8.210 χ^2/NDF : 15.6/18

Left In: -8.276 ± 6.738 χ^2/NDF : 12.5/12

Left: -12.549 ± 4.689 χ^2/NDF : 33.1/27

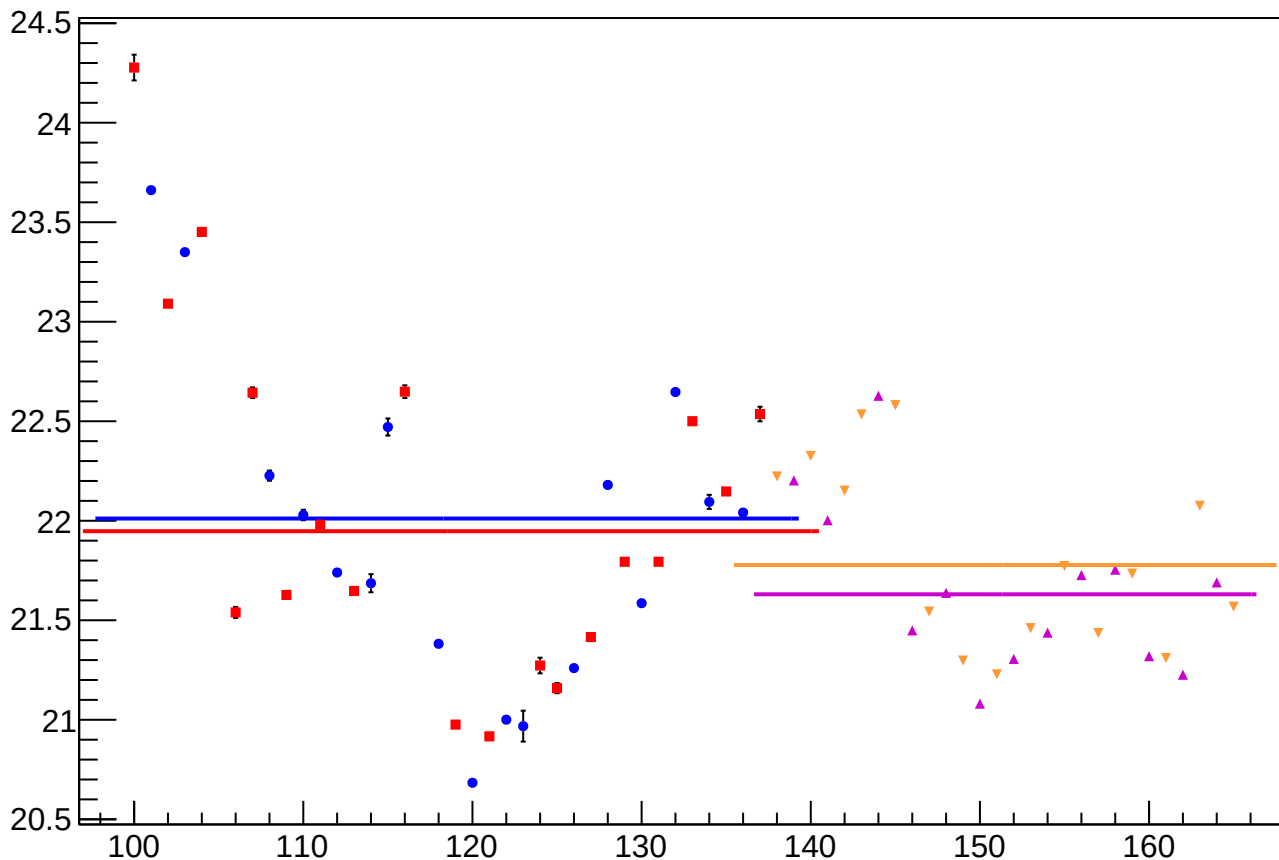
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -5.664 ± 5.277 χ^2/NDF : 30.5/29

Out: -14.978 ± 5.111 χ^2/NDF : 35.6/33

All: -10.470 ± 3.671 χ^2/NDF : 67.7/63

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011 $\pm$ 0.006 χ^2 /NDF: 17546.9/16

Left Out: 21.778 $\pm$ 0.005 χ^2 /NDF: 9219.5/14

Right Out: 21.947 $\pm$ 0.006 χ^2 /NDF: 16592.7/18

Left In: 21.630 $\pm$ 0.005 χ^2 /NDF: 7522.4/12

Left: 21.706 $\pm$ 0.003 χ^2 /NDF: 17233.9/27

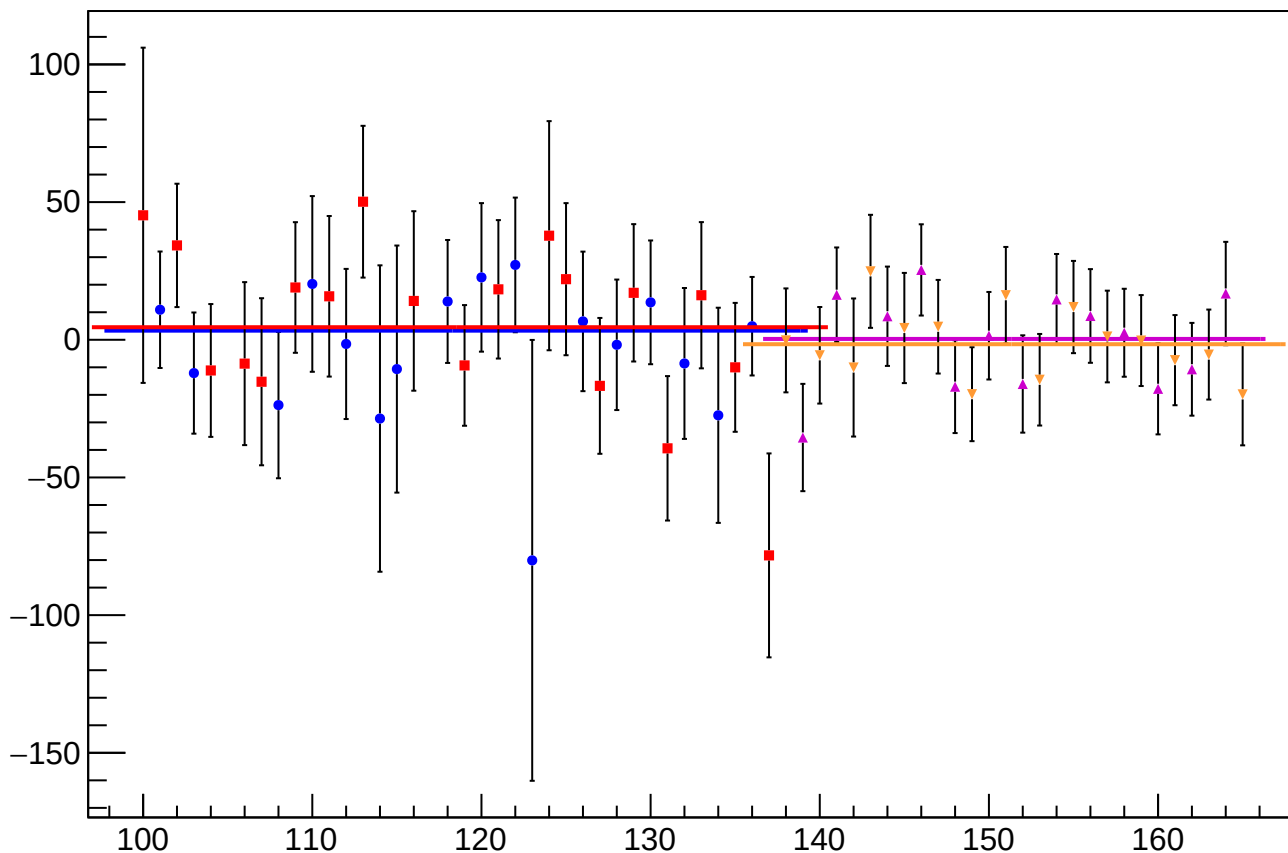
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.778 $\pm$ 0.004 χ^2 /NDF: 27538.3/29

Out: 21.843 $\pm$ 0.004 χ^2 /NDF: 26336.3/33

All: 21.812 $\pm$ 0.003 χ^2 /NDF: 54034.8/63

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317+/-6.388 χ^2/NDF : 6.3/16

Left Out: -1.609+/-4.587 χ^2/NDF : 6.7/14

Right Out: 4.561+/-6.244 χ^2/NDF : 17.7/18

Left In: 0.312+/-4.741 χ^2/NDF : 12.1/12

Left: -0.680+/-3.297 χ^2/NDF : 18.8/27

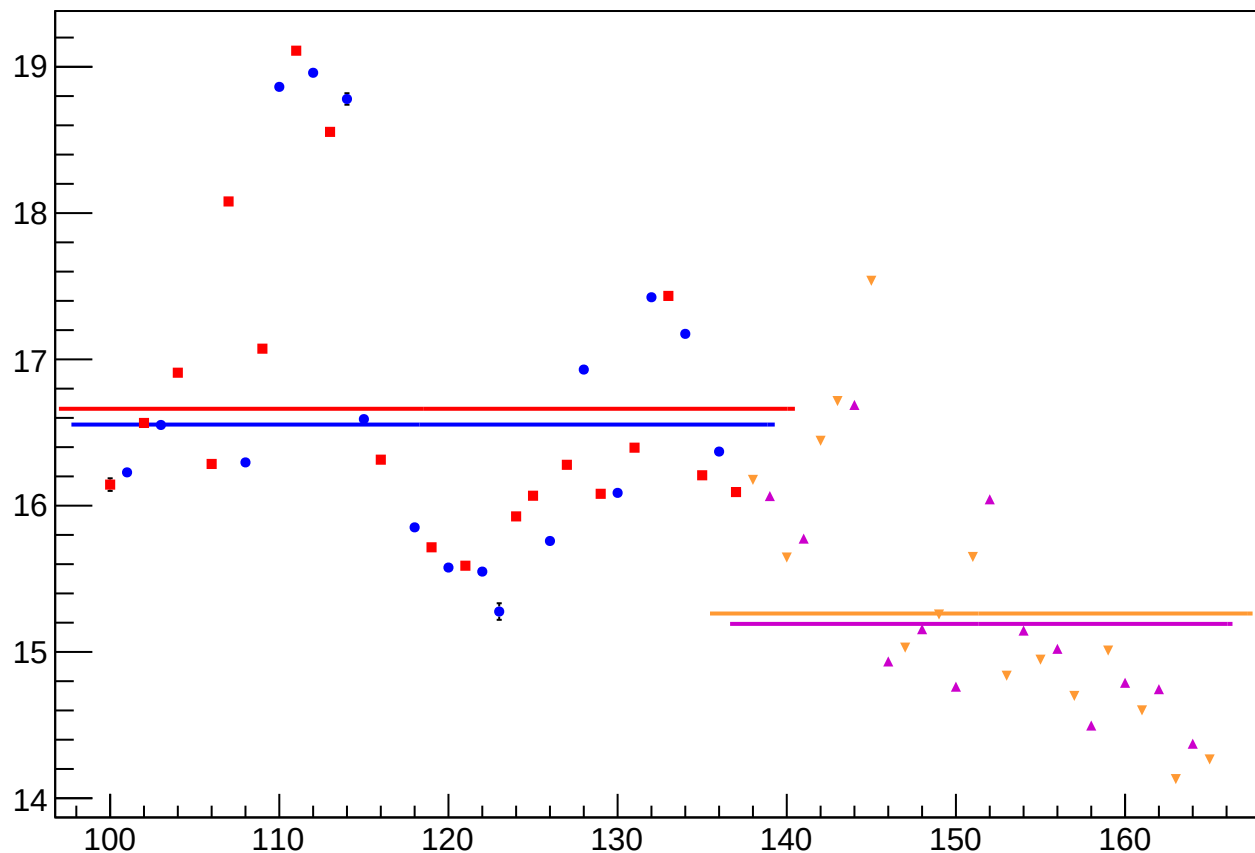
Right: 3.953+/-4.465 χ^2/NDF : 24.0/35

In: 1.379+/-3.807 χ^2/NDF : 18.5/29

Out: 0.554+/-3.697 χ^2/NDF : 25.0/33

All: 0.954+/-2.652 χ^2/NDF : 43.5/63

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554 $\pm$ 0.005 χ^2 /NDF: 44475.2/16

Left Out: 15.263 $\pm$ 0.003 χ^2 /NDF: 70736.5/14

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.192 $\pm$ 0.003 χ^2 /NDF: 37092.1/12

Left: 15.228 $\pm$ 0.002 χ^2 /NDF: 108059.8/27

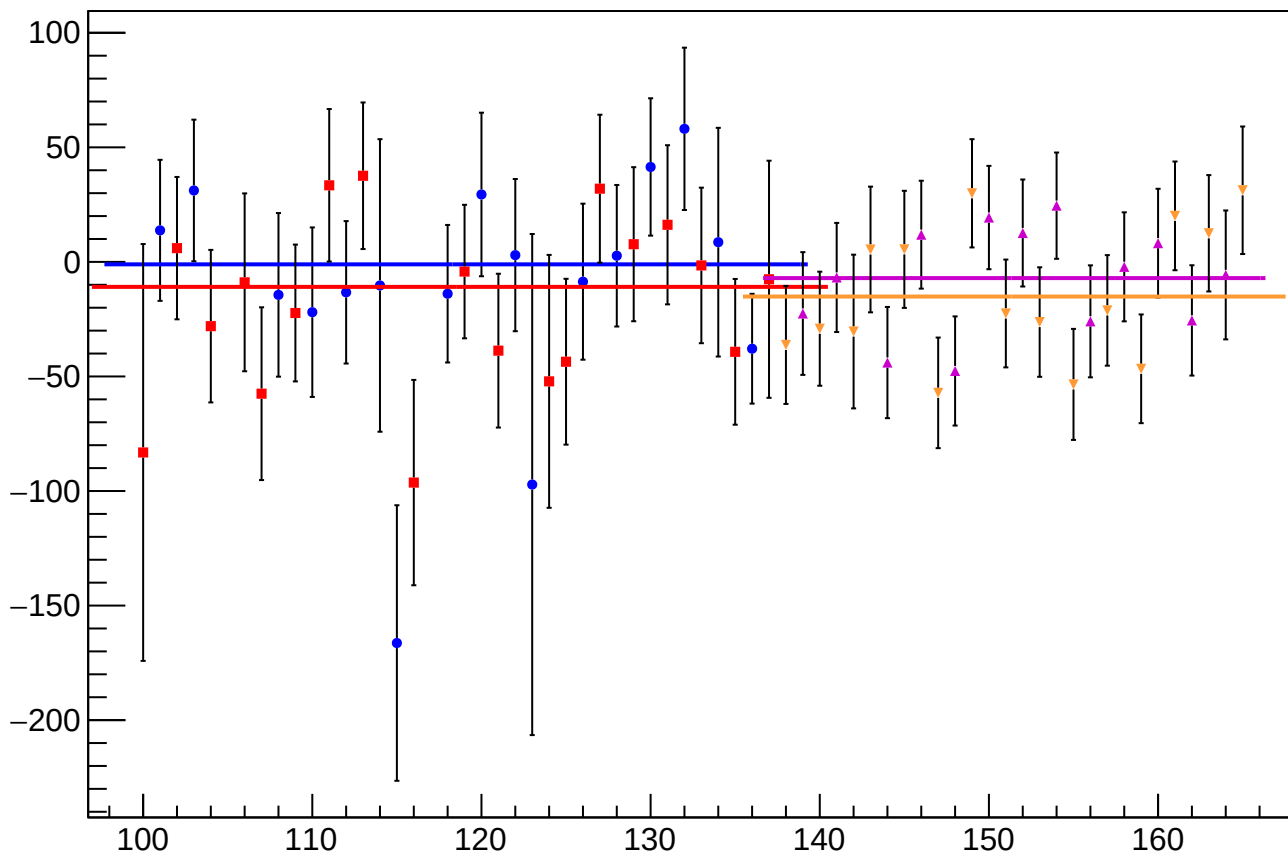
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.676 $\pm$ 0.003 χ^2 /NDF: 140243.6/29

Out: 15.753 $\pm$ 0.003 χ^2 /NDF: 179072.5/33

All: 15.716 $\pm$ 0.002 χ^2 /NDF: 319743.9/63

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.068 ± 8.444 χ^2/NDF : 18.5/16

Left Out: -15.119 ± 6.488 χ^2/NDF : 19.9/14

Right Out: -10.900 ± 8.169 χ^2/NDF : 16.2/18

Left In: -7.069 ± 6.699 χ^2/NDF : 11.8/12

Left: -11.222 ± 4.661 χ^2/NDF : 32.4/27

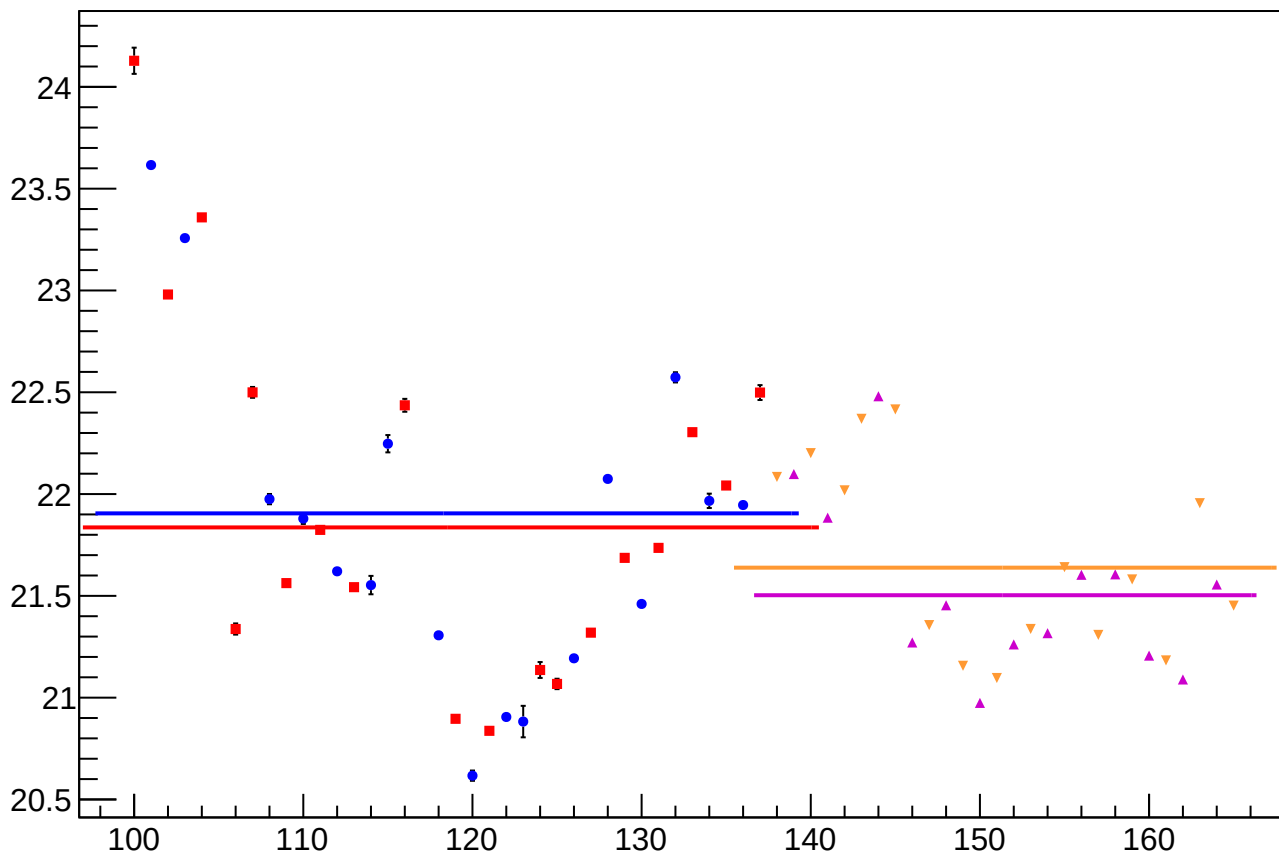
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -4.751 ± 5.248 χ^2/NDF : 30.5/29

Out: -13.487 ± 5.081 χ^2/NDF : 36.3/33

All: -9.261 ± 3.650 χ^2/NDF : 68.3/63

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.905 ± 0.006 $\chi^2/\text{NDF}: 17794.2/16$

Left Out: 21.639 ± 0.005 $\chi^2/\text{NDF}: 9157.6/14$

Right Out: 21.836 ± 0.006 $\chi^2/\text{NDF}: 16251.2/18$

Left In: 21.503 ± 0.005 $\chi^2/\text{NDF}: 7368.3/12$

Left: 21.573 ± 0.003 $\chi^2/\text{NDF}: 16947.5/27$

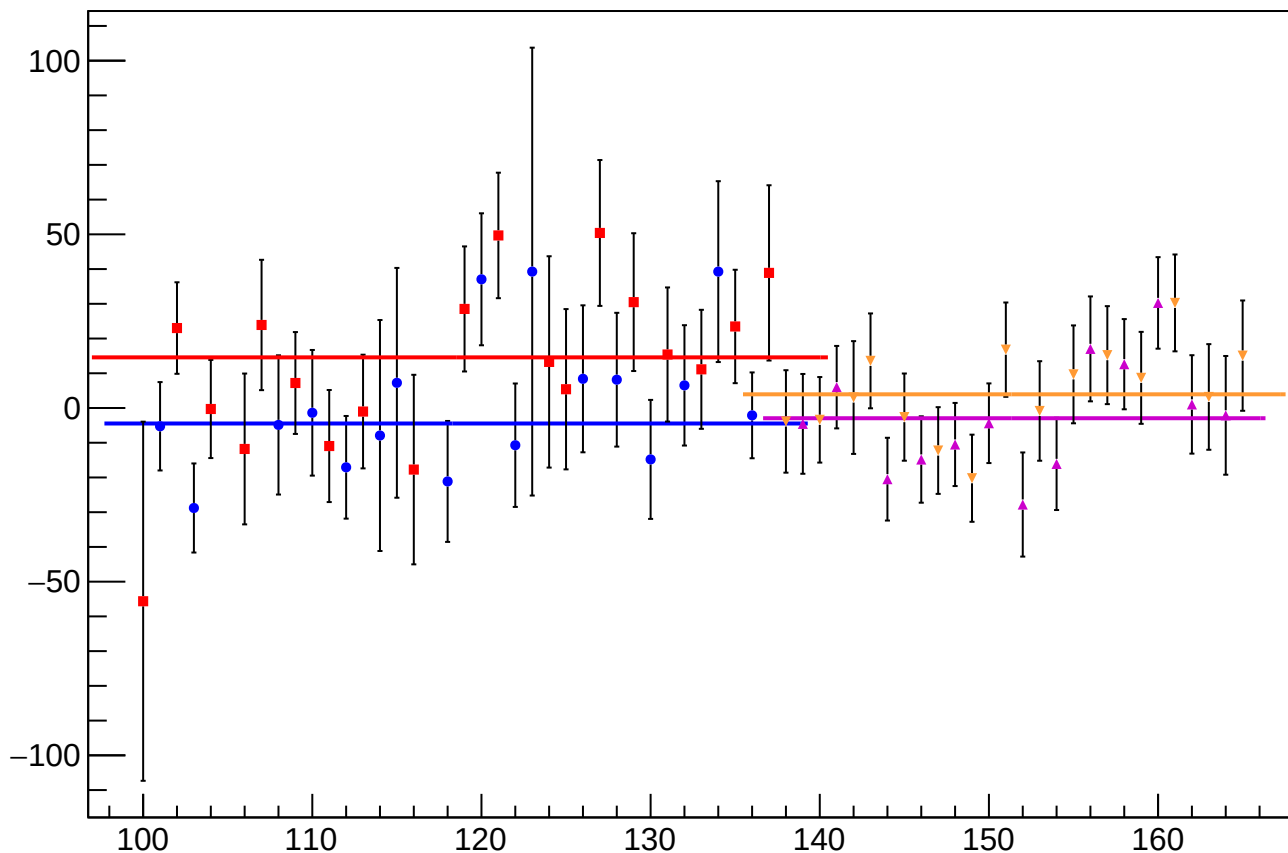
Right: 21.870 ± 0.004 $\chi^2/\text{NDF}: 34114.4/35$

In: 21.658 ± 0.004 $\chi^2/\text{NDF}: 27945.3/29$

Out: 21.715 ± 0.004 $\chi^2/\text{NDF}: 26127.0/33$

All: 21.688 ± 0.003 $\chi^2/\text{NDF}: 54192.3/63$

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 3.941 ± 3.559 $\chi^2/\text{NDF}: 12.8/14$

Right Out: 14.579 ± 4.264 $\chi^2/\text{NDF}: 19.5/18$

Left In: -2.945 ± 3.660 $\chi^2/\text{NDF}: 17.4/12$

Left: 0.595 ± 2.552 $\chi^2/\text{NDF}: 32.0/27$

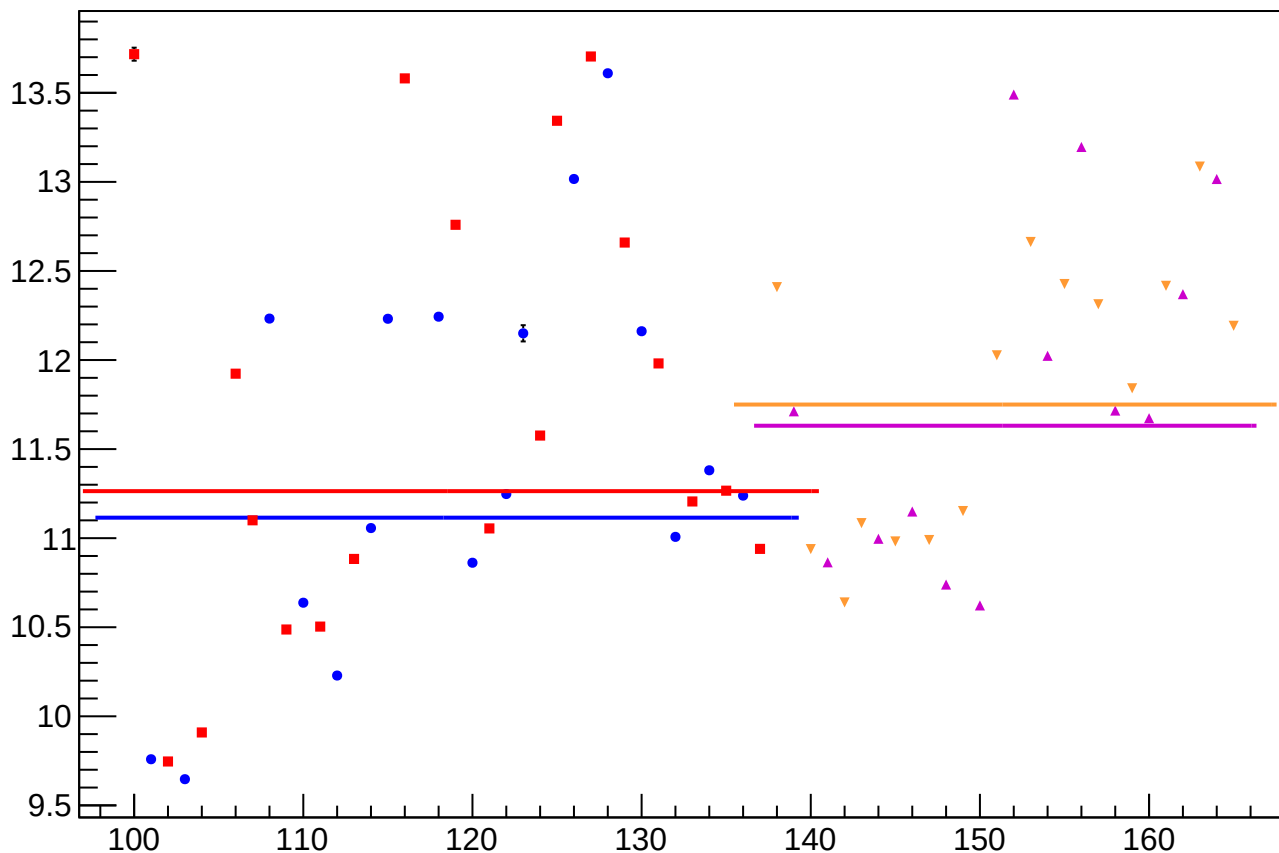
Right: 5.202 ± 3.038 $\chi^2/\text{NDF}: 44.5/35$

In: -3.577 ± 2.795 $\chi^2/\text{NDF}: 32.7/29$

Out: 8.309 ± 2.732 $\chi^2/\text{NDF}: 36.0/33$

All: 2.501 ± 1.954 $\chi^2/\text{NDF}: 77.9/63$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115+/-0.003 χ^2/NDF : 133059.3/16

Left Out: 11.750+/-0.003 χ^2/NDF : 84640.4/14

Right Out: 11.264+/-0.003 χ^2/NDF : 147483.5/18

Left In: 11.631+/-0.003 χ^2/NDF : 116315.1/12

Left: 11.692+/-0.002 χ^2/NDF : 202040.6/27

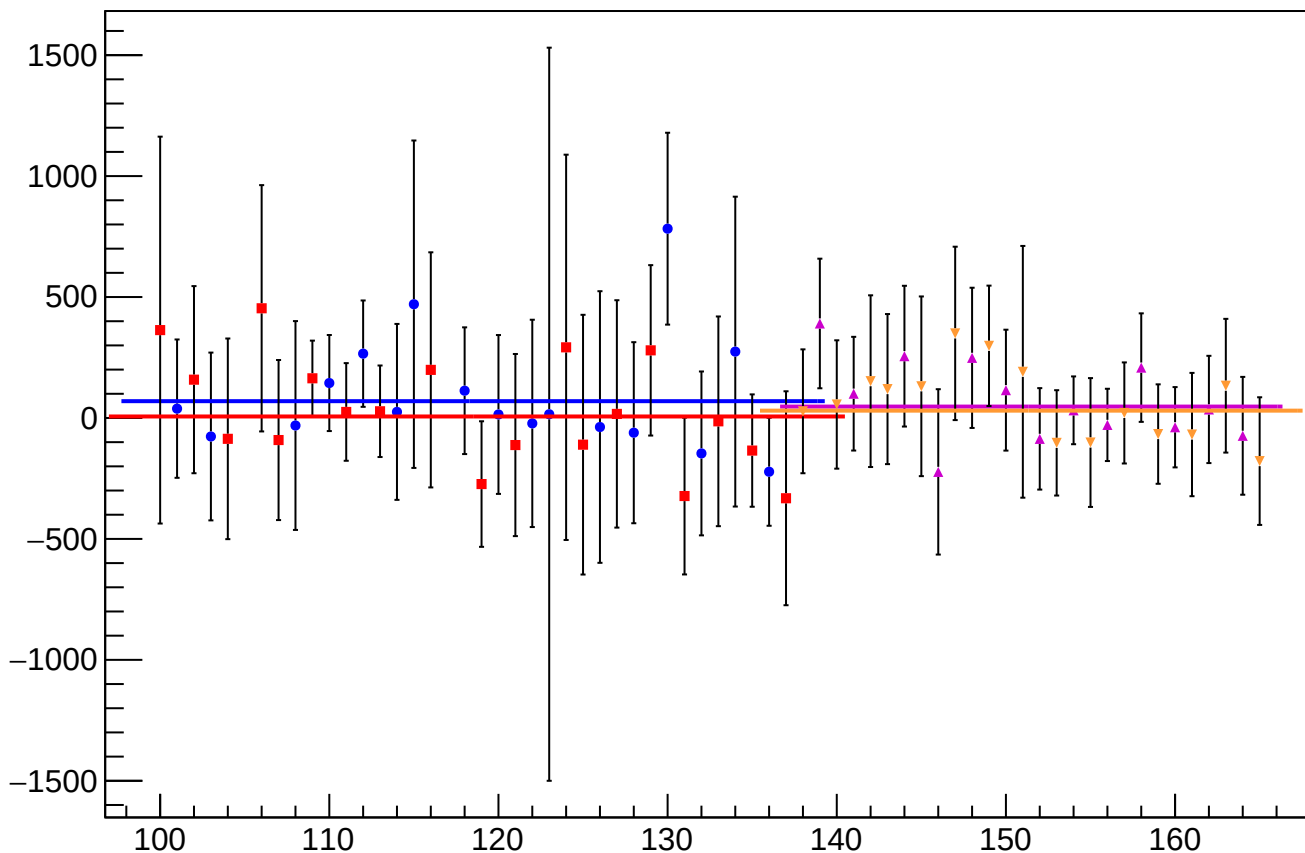
Right: 11.191+/-0.002 χ^2/NDF : 281744.0/35

In: 11.416+/-0.002 χ^2/NDF : 265953.9/29

Out: 11.551+/-0.002 χ^2/NDF : 247446.9/33

All: 11.485+/-0.001 χ^2/NDF : 515769.4/63

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470 $\pm$ 79.231 χ^2 /NDF: 7.3/16

Left Out: 30.309 $\pm$ 69.462 χ^2 /NDF:4.1/14

Right Out: 6.194 $\pm$ 70.182 χ^2 /NDF: 6.5/18

Left In: 47.108 $\pm$ 58.507 χ^2 /NDF:5.1/12

Left: 40.136 $\pm$ 44.749 χ^2 /NDF: 9.2/27

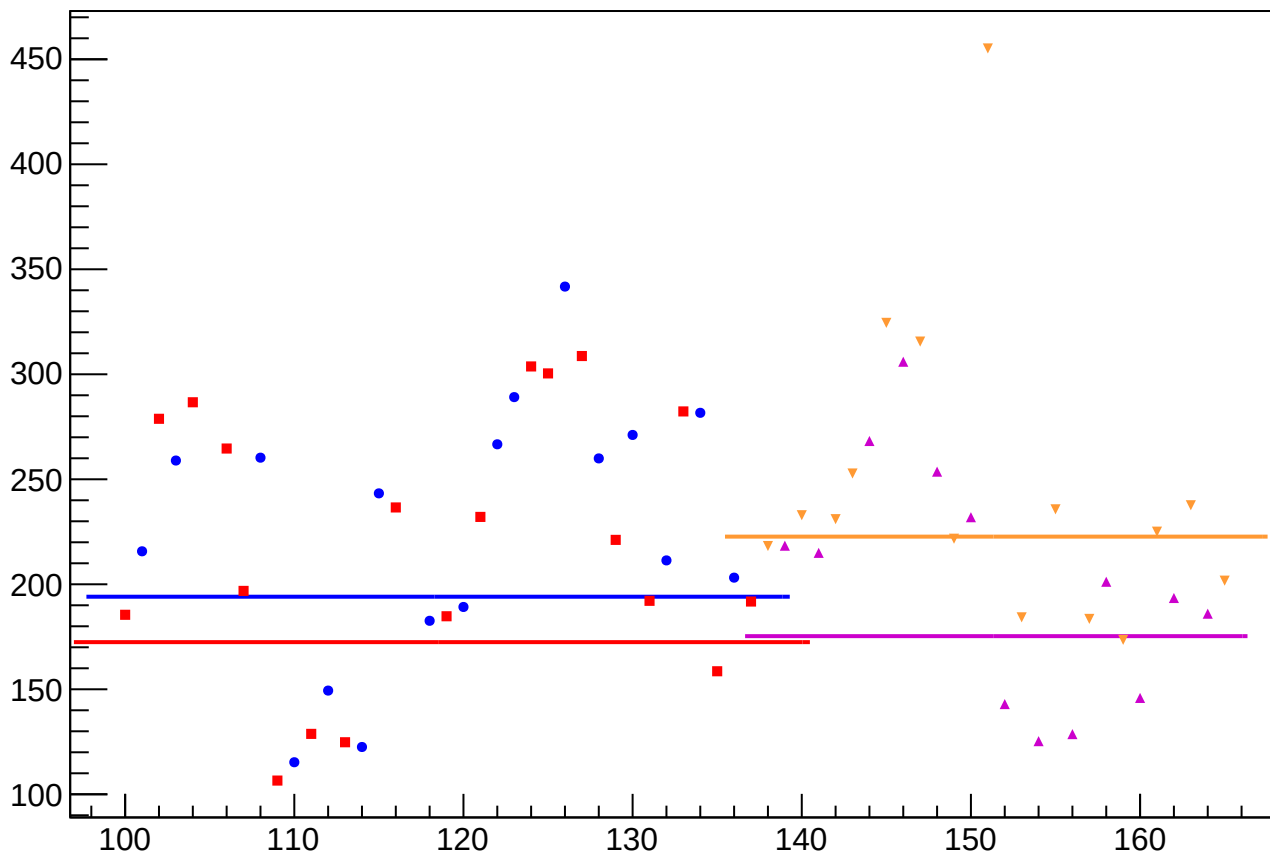
Right: 34.014 $\pm$ 52.536 χ^2 /NDF: 14.1/35

In: 54.999 $\pm$ 47.065 χ^2 /NDF:12.4/29

Out: 18.376 $\pm$ 49.370 χ^2 /NDF:10.6/33

All: 37.562 $\pm$ 34.066 χ^2 /NDF: 23.3/63

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082+/-0.056 χ^2/NDF : 1005395.7/16

Left Out: 222.697+/-0.049 χ^2/NDF : 977476.8/14

Right Out: 172.452+/-0.050 χ^2/NDF : 1569463.1/18

Left In: 175.303+/-0.041 χ^2/NDF : 1457753.5/12

Left: 194.972+/-0.032 χ^2/NDF : 2979890.5/27

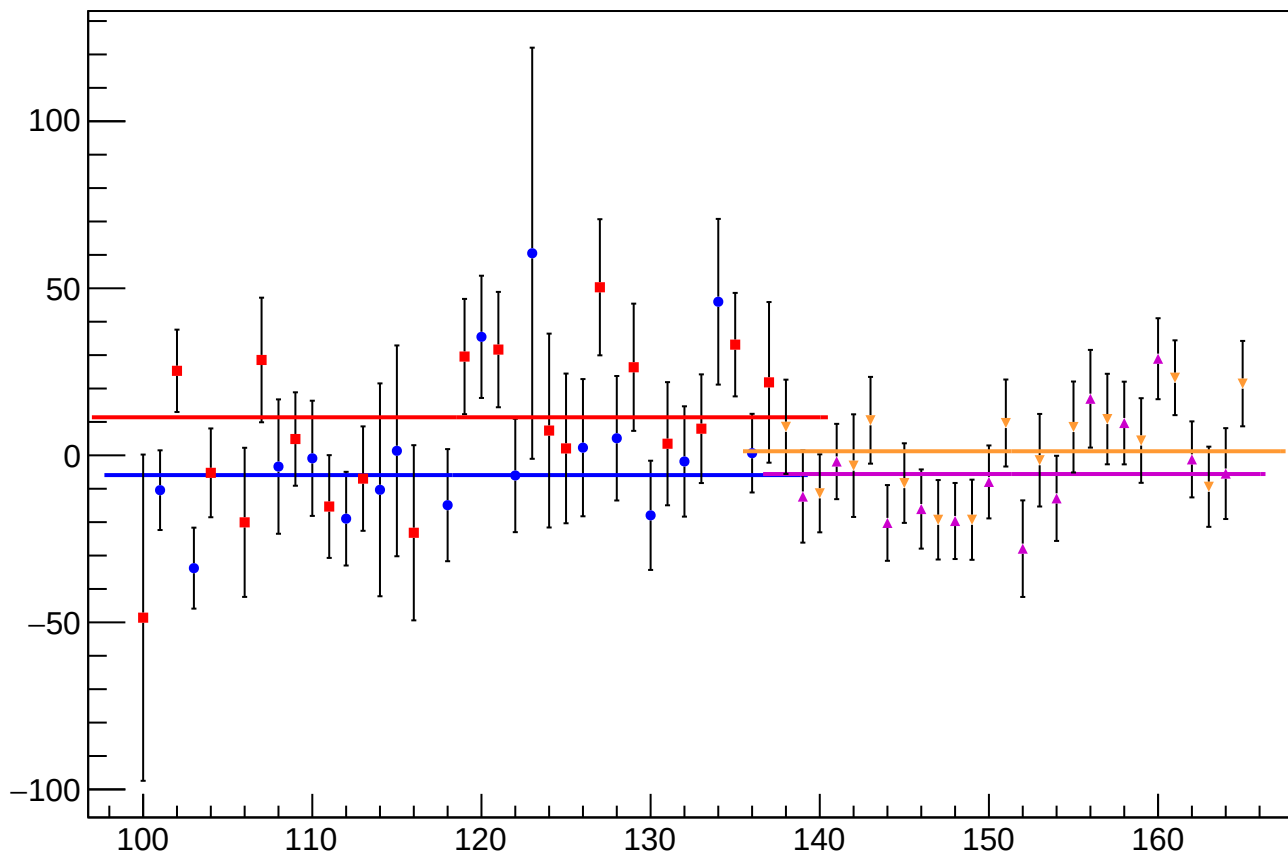
Right: 181.961+/-0.037 χ^2/NDF : 2658380.0/35

In: 181.929+/-0.033 χ^2/NDF : 2535851.7/29

Out: 197.834+/-0.035 χ^2/NDF : 3064775.8/33

All: 189.502+/-0.024 χ^2/NDF : 5709360.2/63

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 ± 4.133 χ^2/NDF : 18.8/16

Left Out: 1.221 ± 3.282 χ^2/NDF : 17.0/14

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -5.594 ± 3.406 χ^2/NDF : 19.2/12

Left: -2.061 ± 2.363 χ^2/NDF : 38.3/27

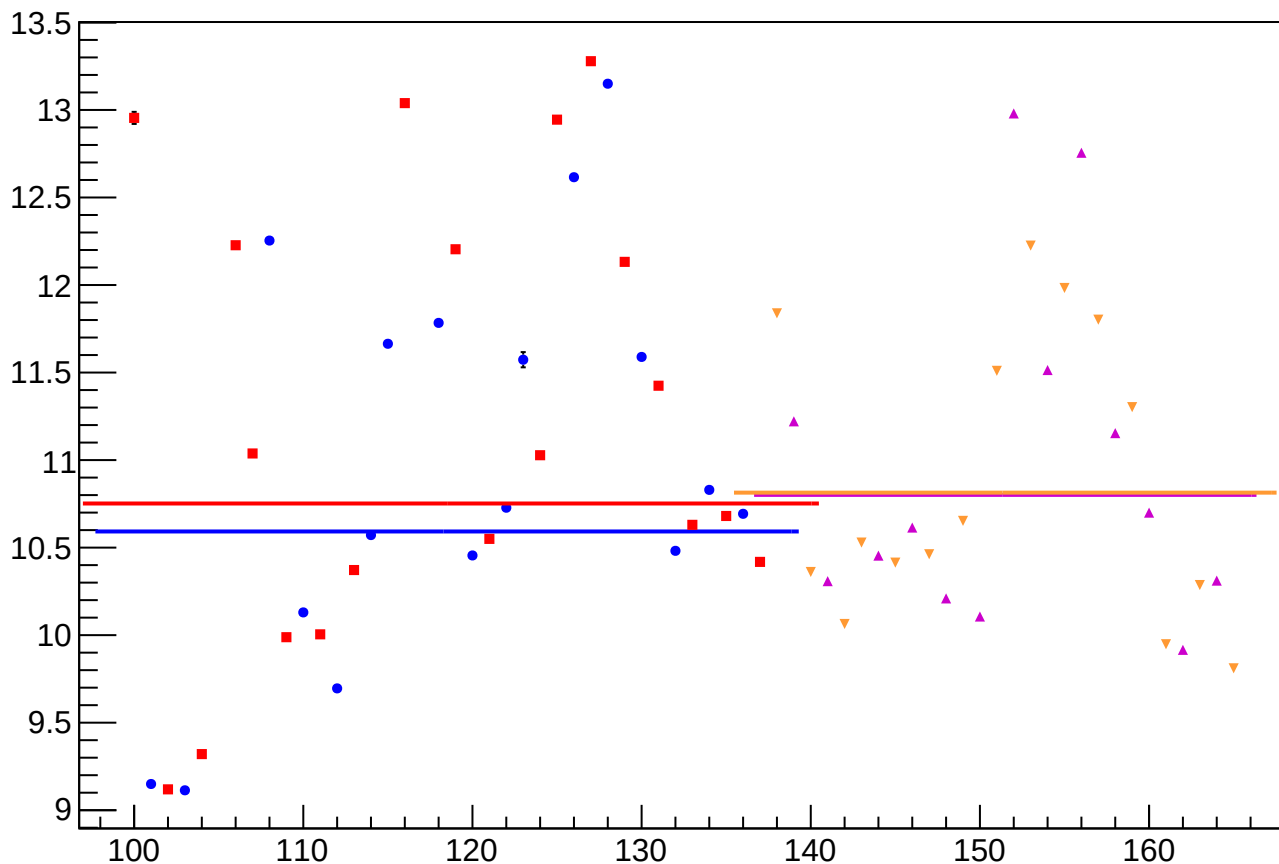
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.723 ± 2.628 χ^2/NDF : 38.1/29

Out: 5.219 ± 2.557 χ^2/NDF : 43.7/33

All: -0.102 ± 1.833 χ^2/NDF : 90.7/63

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.592 $\pm$ 0.003 χ^2 /NDF: 160397.9/16

Left Out: 10.814 $\pm$ 0.002 χ^2 /NDF: 106629.0/14

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.801 $\pm$ 0.002 χ^2 /NDF: 125444.9/12

Left: 10.808 $\pm$ 0.002 χ^2 /NDF: 232088.6/27

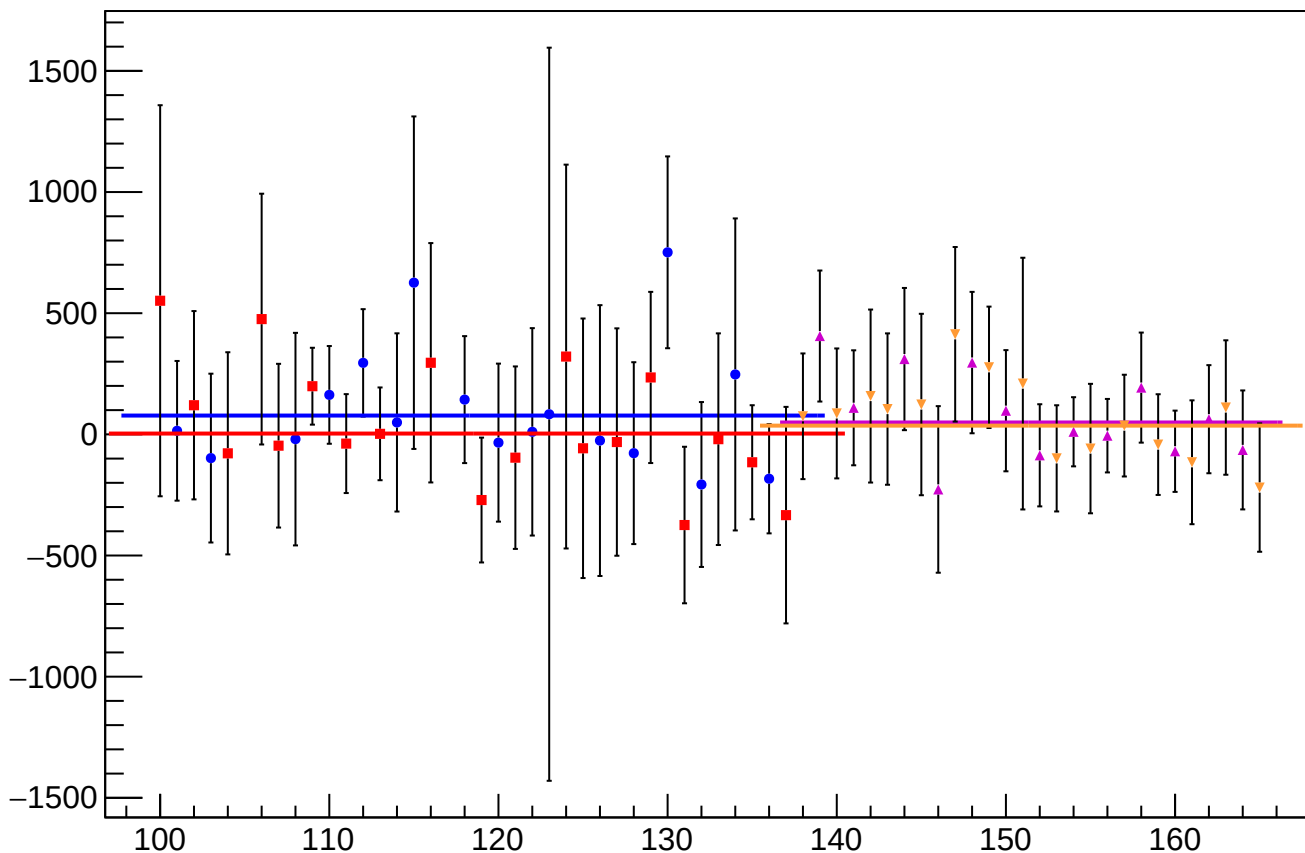
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.717 $\pm$ 0.002 χ^2 /NDF: 288888.4/29

Out: 10.790 $\pm$ 0.002 χ^2 /NDF: 283805.2/33

All: 10.754 $\pm$ 0.001 χ^2 /NDF: 573484.9/63

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 77.589 $\pm$ 79.751 χ^2 /NDF: 7.6/16

Left Out: 36.023 $\pm$ 69.911 χ^2 /NDF:4.4/14

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 49.001 $\pm$ 59.132 χ^2 /NDF:5.7/12

Left: 43.588 $\pm$ 45.148 χ^2 /NDF: 10.2/27

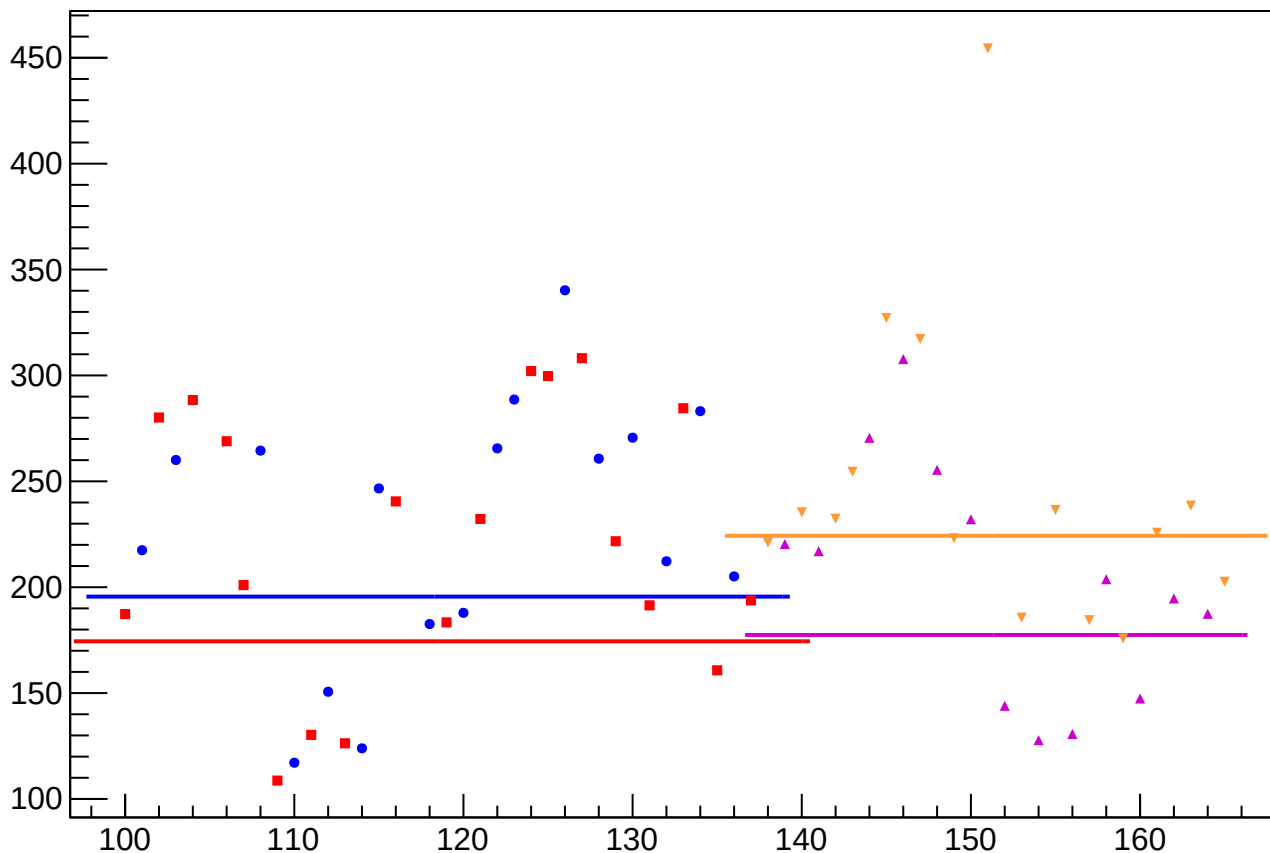
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 59.142 $\pm$ 47.500 χ^2 /NDF:13.4/29

Out: 19.883 $\pm$ 49.765 χ^2 /NDF:11.9/33

All: 40.427 $\pm$ 34.360 χ^2 /NDF: 25.6/63

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551+/-0.056 χ^2/NDF : 979937.7/16

Left Out: 224.279+/-0.049 χ^2/NDF : 966092.3/14

Right Out: 174.449+/-0.050 χ^2/NDF : 1528629.1/18

Left In: 177.440+/-0.042 χ^2/NDF : 1421951.3/12

Left: 196.974+/-0.032 χ^2/NDF : 2911367.9/27

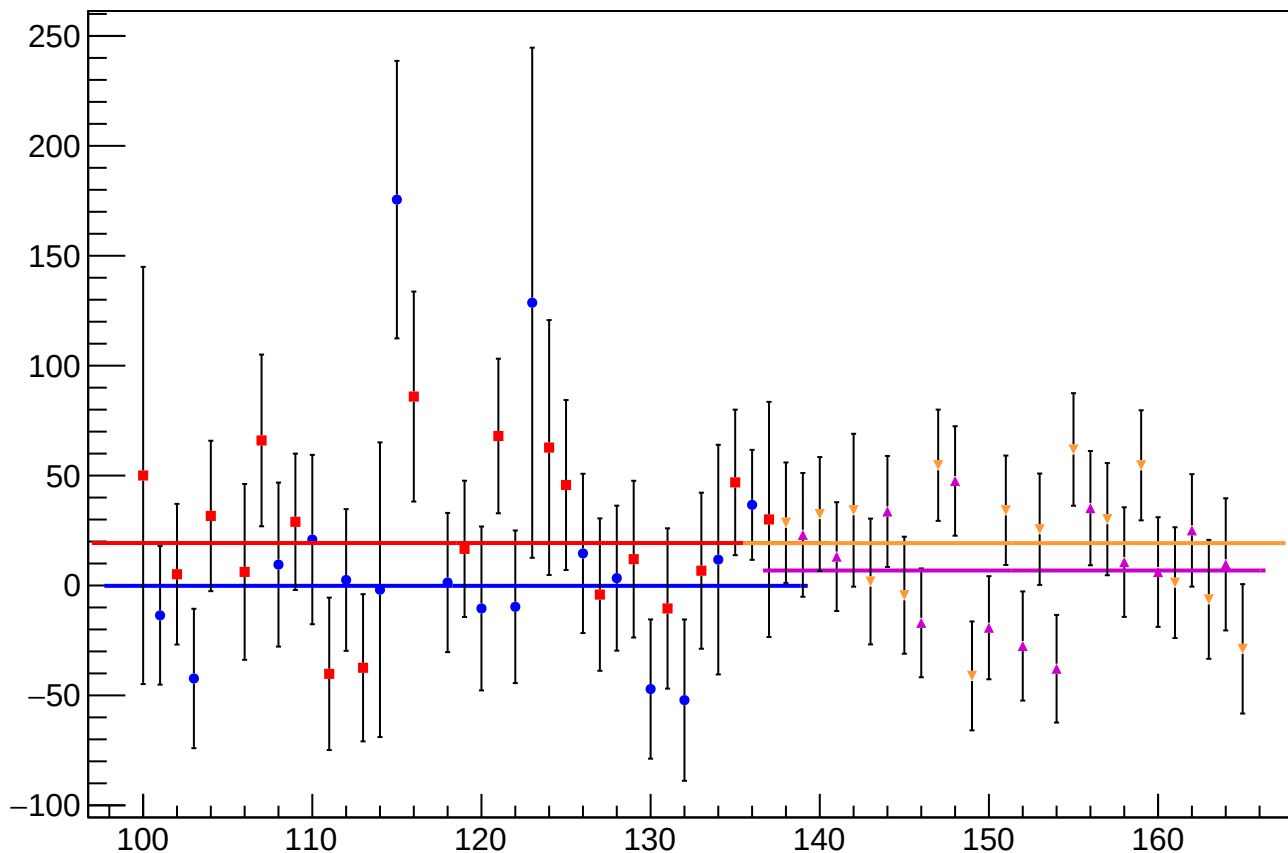
Right: 183.758+/-0.037 χ^2/NDF : 2586820.6/35

In: 183.865+/-0.034 χ^2/NDF : 2468441.2/29

Out: 199.698+/-0.035 χ^2/NDF : 2995929.3/33

All: 191.413+/-0.024 χ^2/NDF : 5570304.6/63

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.158 ± 8.826 $\chi^2/\text{NDF}: 18.1/16$

Left Out: 19.276 ± 6.837 $\chi^2/\text{NDF}: 19.1/14$

Right Out: 19.316 ± 8.554 $\chi^2/\text{NDF}: 14.8/18$

Left In: 6.818 ± 7.046 $\chi^2/\text{NDF}: 13.3/12$

Left: 13.235 ± 4.907 $\chi^2/\text{NDF}: 34.0/27$

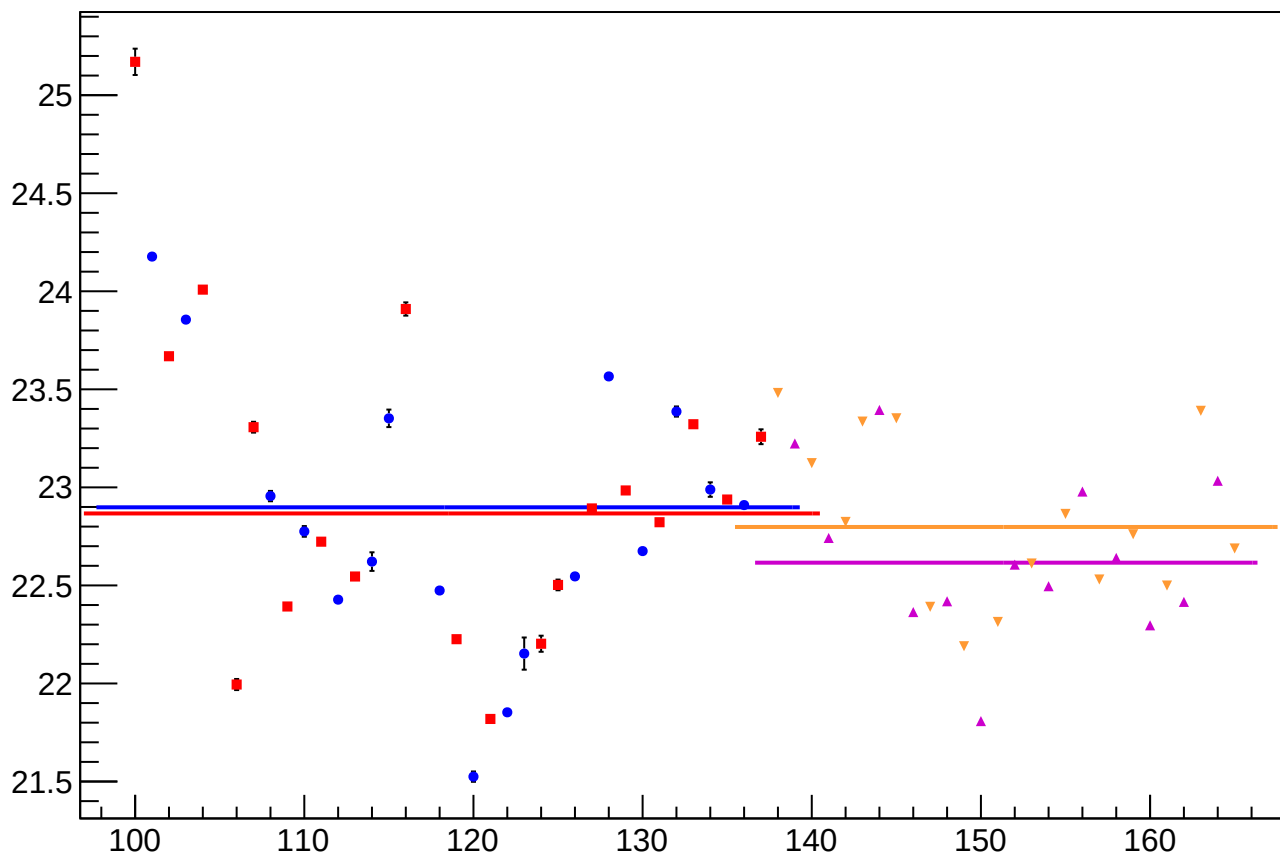
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 4.103 ± 5.507 $\chi^2/\text{NDF}: 31.8/29$

Out: 19.292 ± 5.340 $\chi^2/\text{NDF}: 33.9/33$

All: 11.929 ± 3.834 $\chi^2/\text{NDF}: 69.6/63$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.898 $\pm$ 0.006 χ^2 /NDF: 12143.3/16

Left Out: 22.798 $\pm$ 0.005 χ^2 /NDF: 7227.4/14

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.616 $\pm$ 0.005 χ^2 /NDF: 6866.4/12

Left: 22.710 $\pm$ 0.003 χ^2 /NDF: 14781.6/27

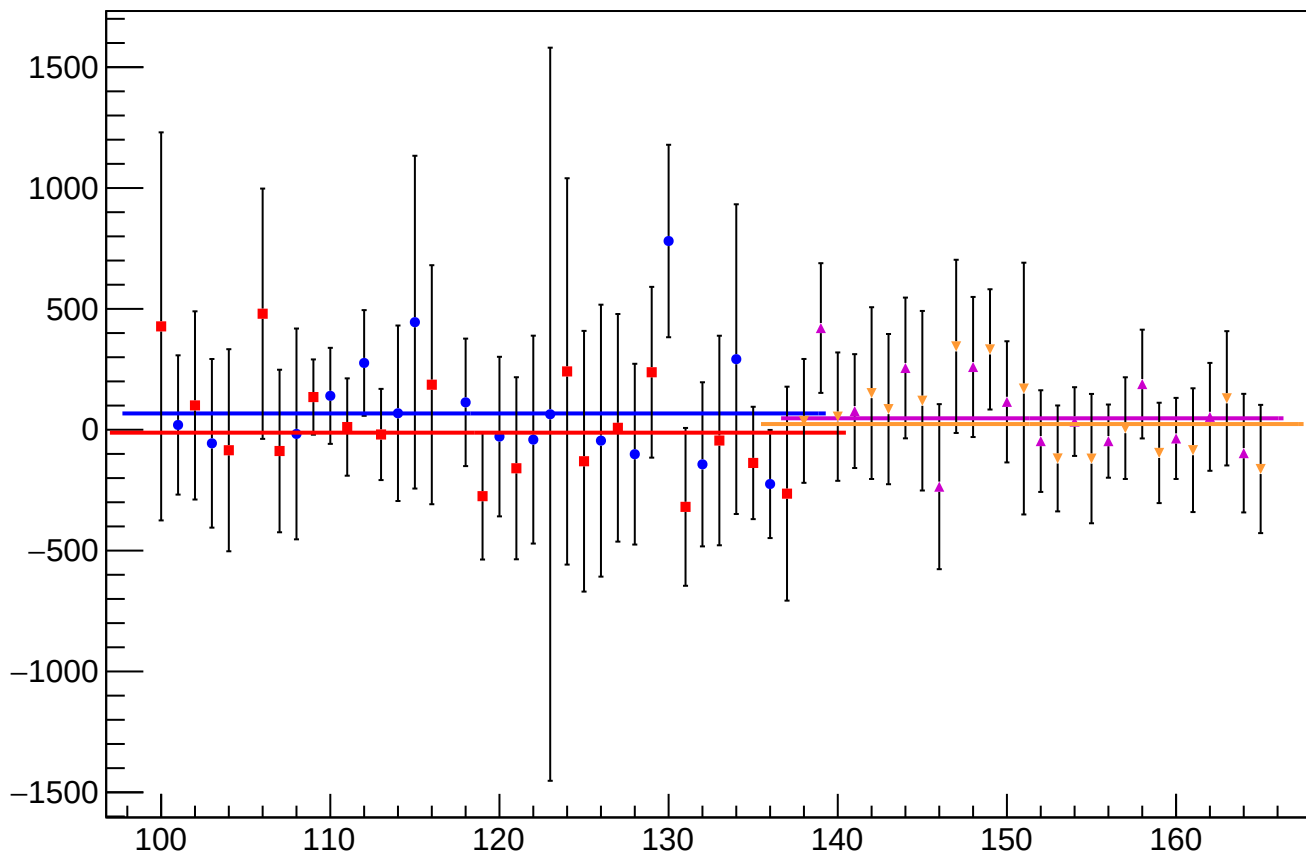
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.726 $\pm$ 0.004 χ^2 /NDF: 20260.1/29

Out: 22.825 $\pm$ 0.004 χ^2 /NDF: 18355.2/33

All: 22.777 $\pm$ 0.003 χ^2 /NDF: 38948.6/63

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.449 $\pm$ 79.404 χ^2 /NDF: 7.4/16

Left Out: 23.560 $\pm$ 69.743 χ^2 /NDF:4.5/14

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 47.381 $\pm$ 58.944 χ^2 /NDF:5.3/12

Left: 37.455 $\pm$ 45.019 χ^2 /NDF: 10.0/27

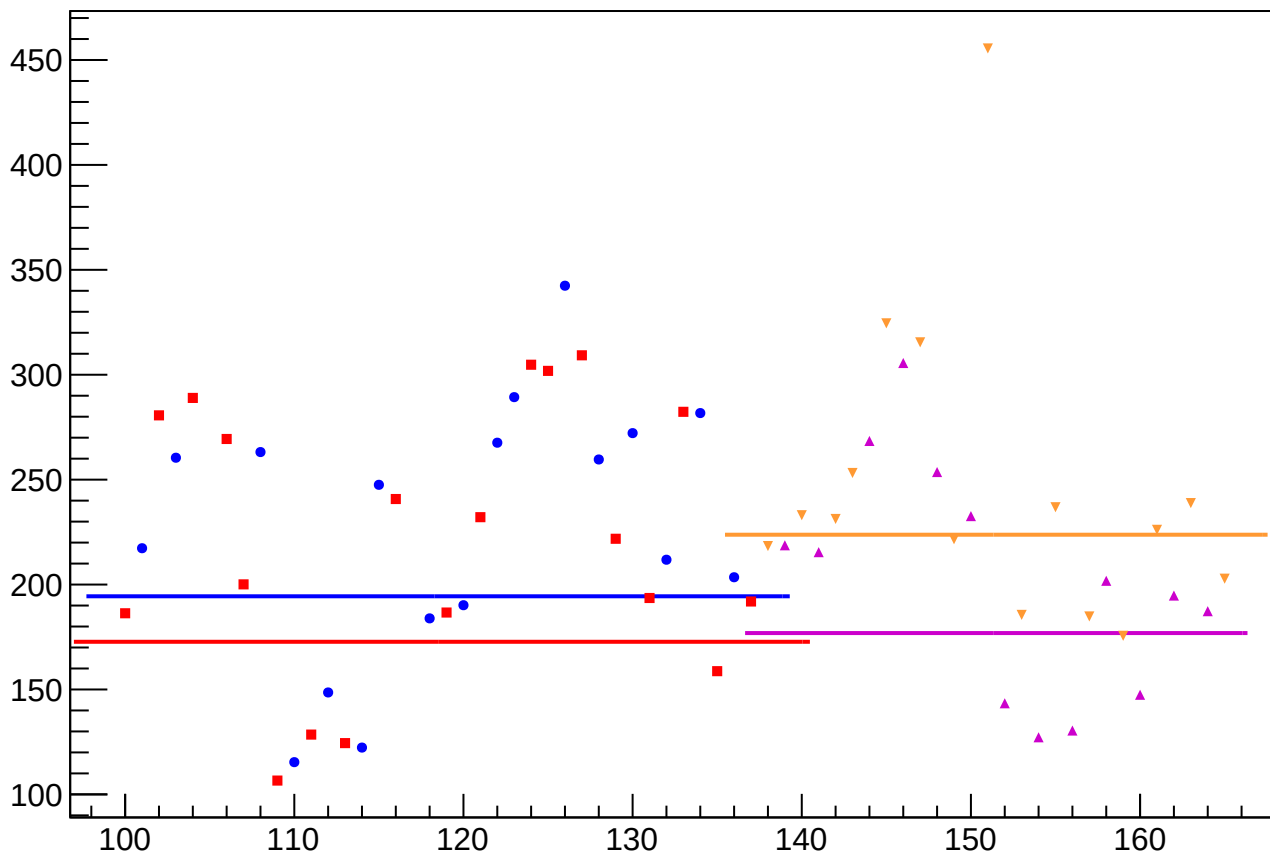
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 54.510 $\pm$ 47.329 χ^2 /NDF:12.8/29

Out: 5.877 $\pm$ 49.531 χ^2 /NDF:10.4/33

All: 31.299 $\pm$ 34.218 χ^2 /NDF: 23.7/63

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411 $\pm$ 0.056 χ^2 /NDF: 1019913.2/16

Left Out: 223.757 $\pm$ 0.049 χ^2 /NDF: 956880.2/14

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 176.886 $\pm$ 0.042 χ^2 /NDF: 1408858.1/12

Left: 196.415 $\pm$ 0.032 χ^2 /NDF: 2892675.8/27

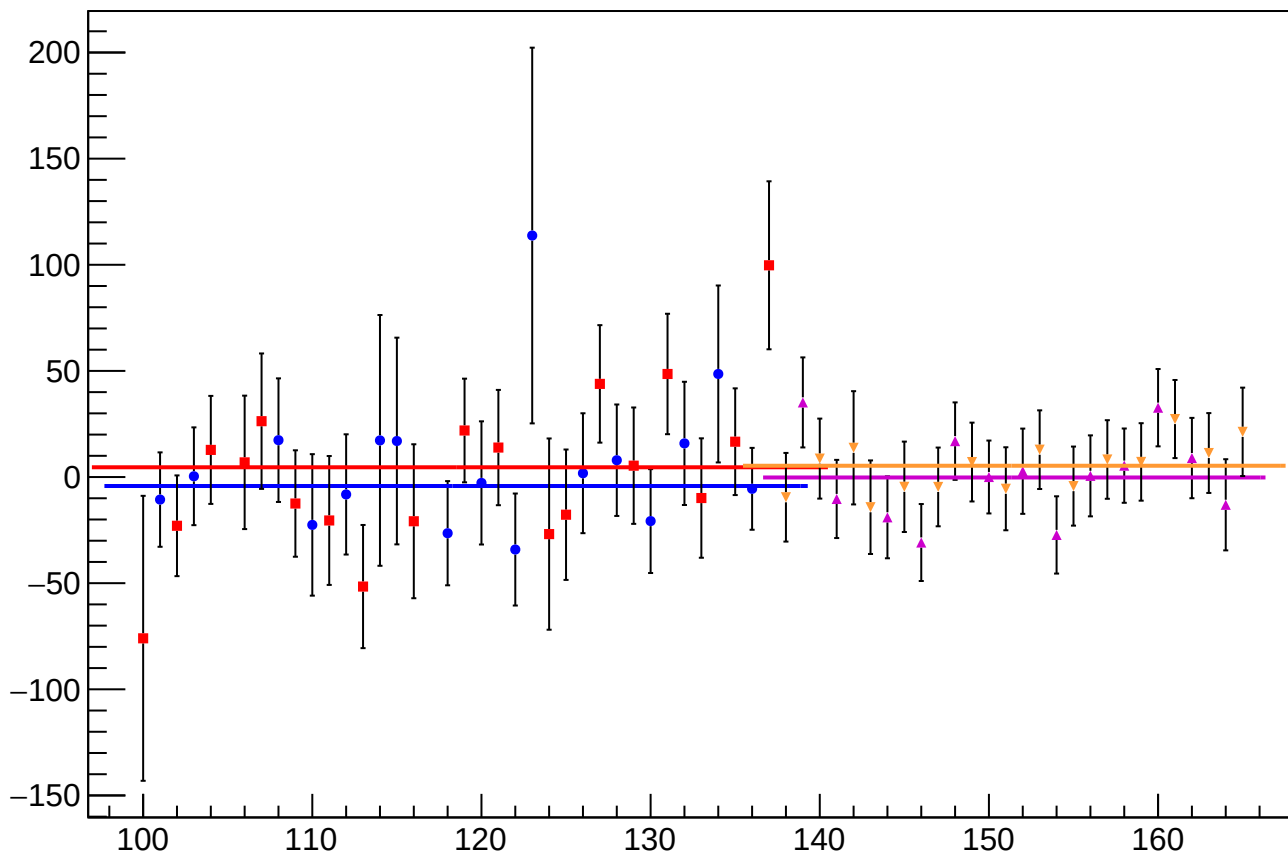
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 183.112 $\pm$ 0.033 χ^2 /NDF: 2491581.0/29

Out: 198.467 $\pm$ 0.035 χ^2 /NDF: 3084256.8/33

All: 190.440 $\pm$ 0.024 χ^2 /NDF: 5676309.2/63

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 χ^2/NDF : 8.0/16

Left Out: 5.323 ± 5.064 χ^2/NDF : 4.8/14

Right Out: 4.599 ± 6.725 χ^2/NDF : 21.1/18

Left In: -0.205 ± 5.214 χ^2/NDF : 14.0/12

Left: 2.640 ± 3.633 χ^2/NDF : 19.4/27

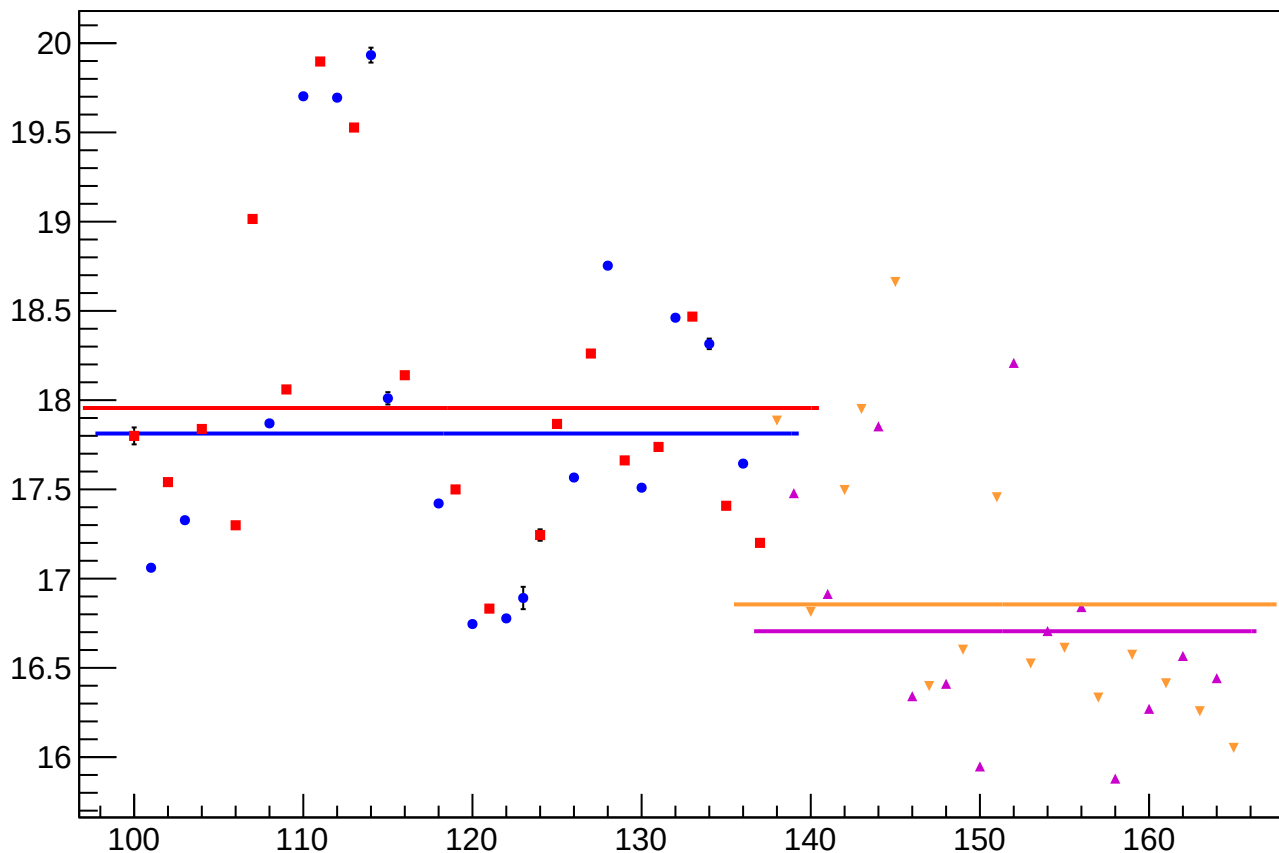
Right: 0.283 ± 4.806 χ^2/NDF : 29.9/35

In: -1.673 ± 4.154 χ^2/NDF : 22.2/29

Out: 5.061 ± 4.045 χ^2/NDF : 25.9/33

All: 1.783 ± 2.898 χ^2/NDF : 49.4/63

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 $\pm$ 0.005 χ^2 /NDF: 32034.8/16

Left Out: 16.856 $\pm$ 0.004 χ^2 /NDF:38037.0/14

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.705 $\pm$ 0.004 χ^2 /NDF:32524.4/12

Left: 16.783 $\pm$ 0.003 χ^2 /NDF: 71417.1/27

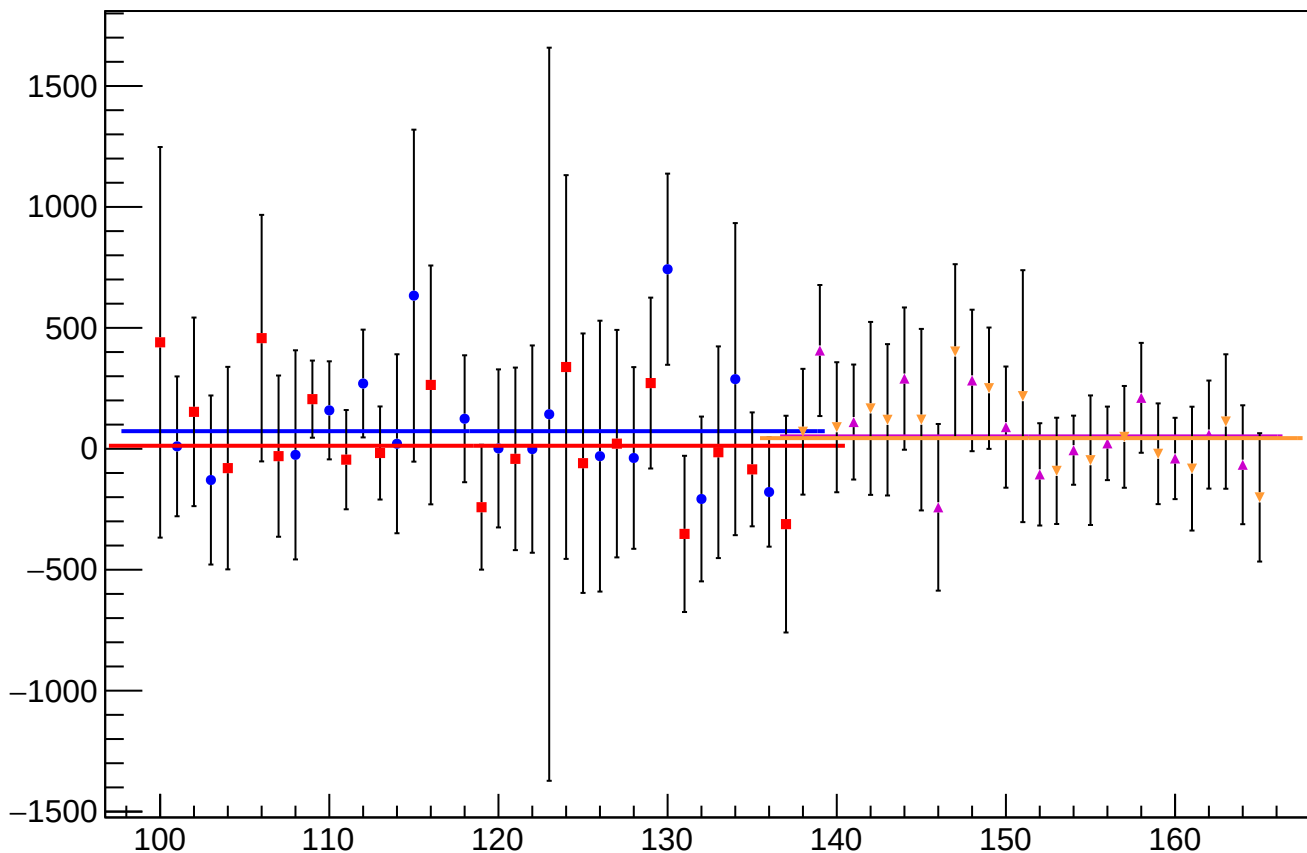
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.110 $\pm$ 0.003 χ^2 /NDF:97540.0/29

Out: 17.254 $\pm$ 0.003 χ^2 /NDF:97650.8/33

All: 17.184 $\pm$ 0.002 χ^2 /NDF: 196419.0/63

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888 $\pm$ 79.948 χ^2 /NDF: 7.2/16

Left Out: 44.093 $\pm$ 70.068 χ^2 /NDF:3.8/14

Right Out: 12.565 $\pm$ 71.013 χ^2 /NDF: 6.7/18

Left In: 51.343 $\pm$ 59.251 χ^2 /NDF:5.6/12

Left: 48.320 $\pm$ 45.243 χ^2 /NDF: 9.4/27

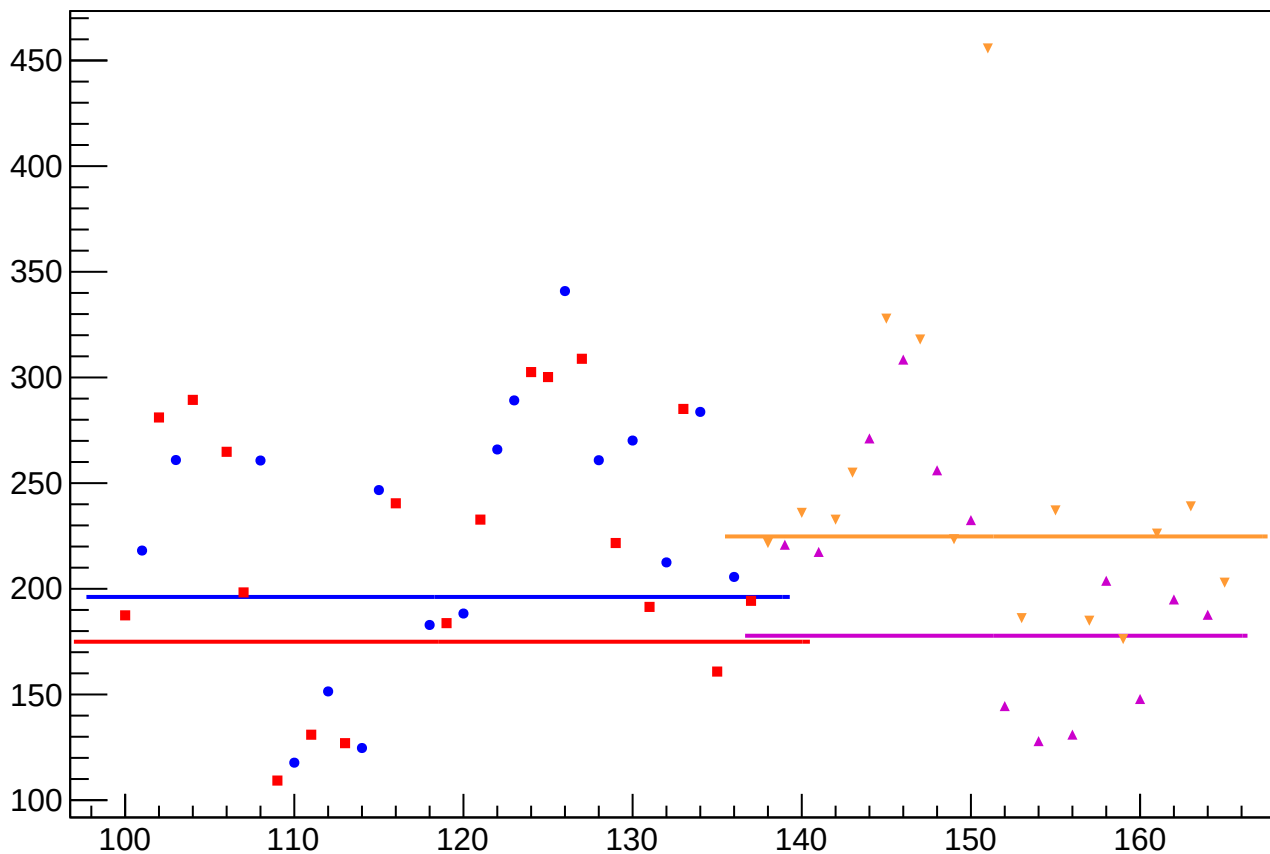
Right: 39.168 $\pm$ 53.093 χ^2 /NDF: 14.3/35

In: 58.981 $\pm$ 47.603 χ^2 /NDF:12.8/29

Out: 28.540 $\pm$ 49.876 χ^2 /NDF:10.6/33

All: 44.470 $\pm$ 34.436 χ^2 /NDF: 23.7/63

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.151+/-0.057 χ^2/NDF : 964998.4/16

Left Out: 224.779+/-0.050 χ^2/NDF : 966142.3/14

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 177.797+/-0.042 χ^2/NDF : 1421166.0/12

Left: 197.385+/-0.032 χ^2/NDF : 2911597.4/27

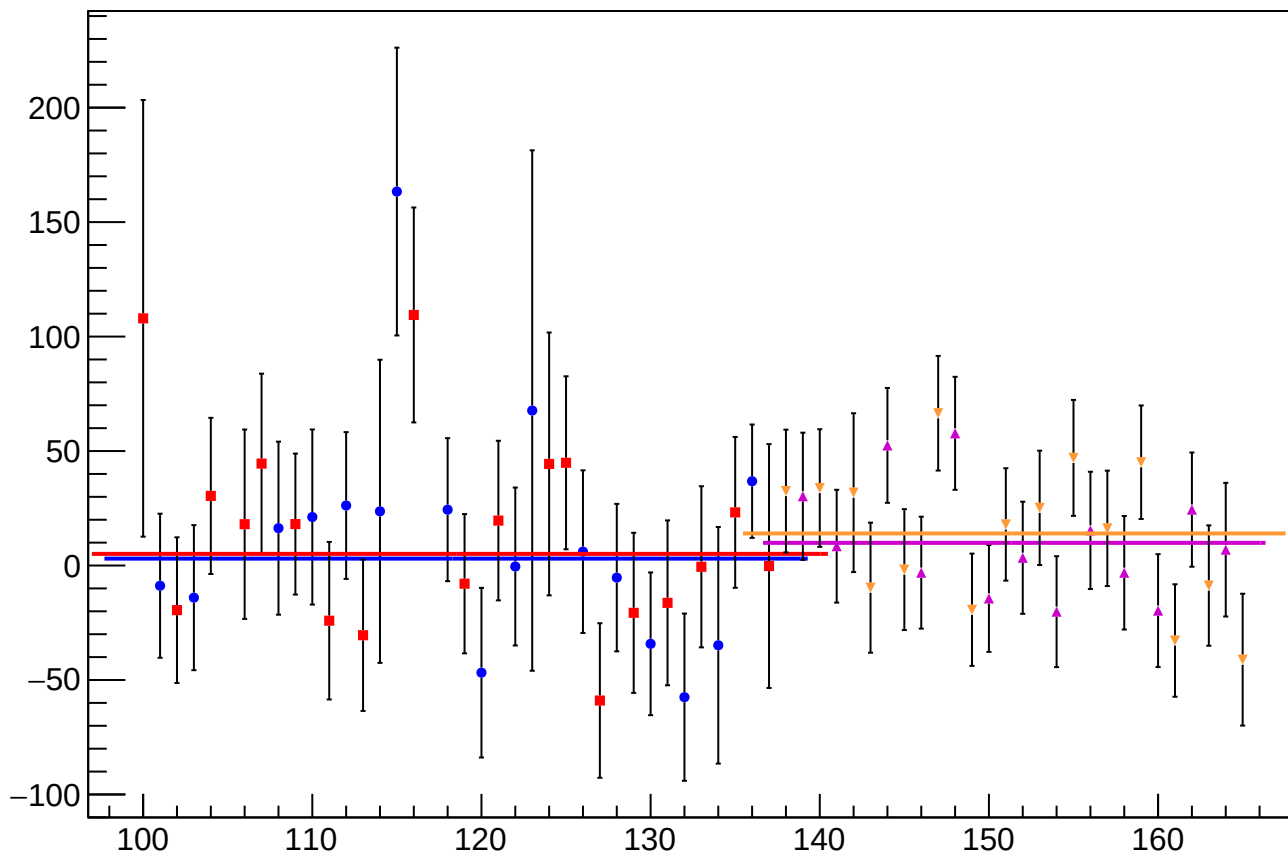
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 184.304+/-0.034 χ^2/NDF : 2454203.3/29

Out: 200.205+/-0.035 χ^2/NDF : 2975760.8/33

All: 191.884+/-0.024 χ^2/NDF : 5536349.1/63

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 14.016 ± 6.741 $\chi^2/\text{NDF}: 20.2/14$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 9.907 ± 6.962 $\chi^2/\text{NDF}: 12.3/12$

Left: 12.028 ± 4.843 $\chi^2/\text{NDF}: 32.6/27$

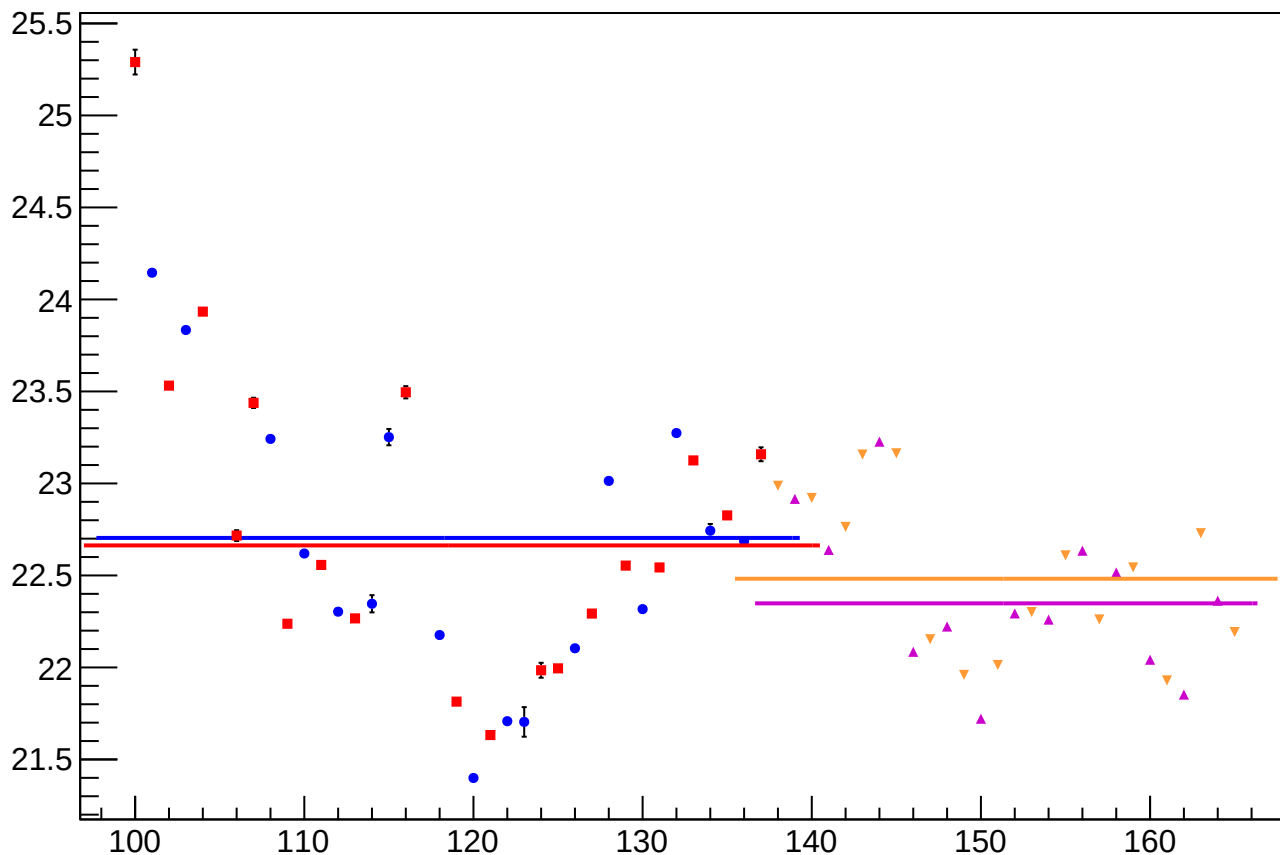
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 7.239 ± 5.448 $\chi^2/\text{NDF}: 29.8/29$

Out: 10.559 ± 5.276 $\chi^2/\text{NDF}: 38.1/33$

All: 8.952 ± 3.790 $\chi^2/\text{NDF}: 68.1/63$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.704 $\pm$ 0.006 χ^2 /NDF: 14105.8/16

Left Out: 22.482 $\pm$ 0.005 χ^2 /NDF: 7585.7/14

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.348 $\pm$ 0.005 χ^2 /NDF: 6770.5/12

Left: 22.417 $\pm$ 0.003 χ^2 /NDF: 14737.1/27

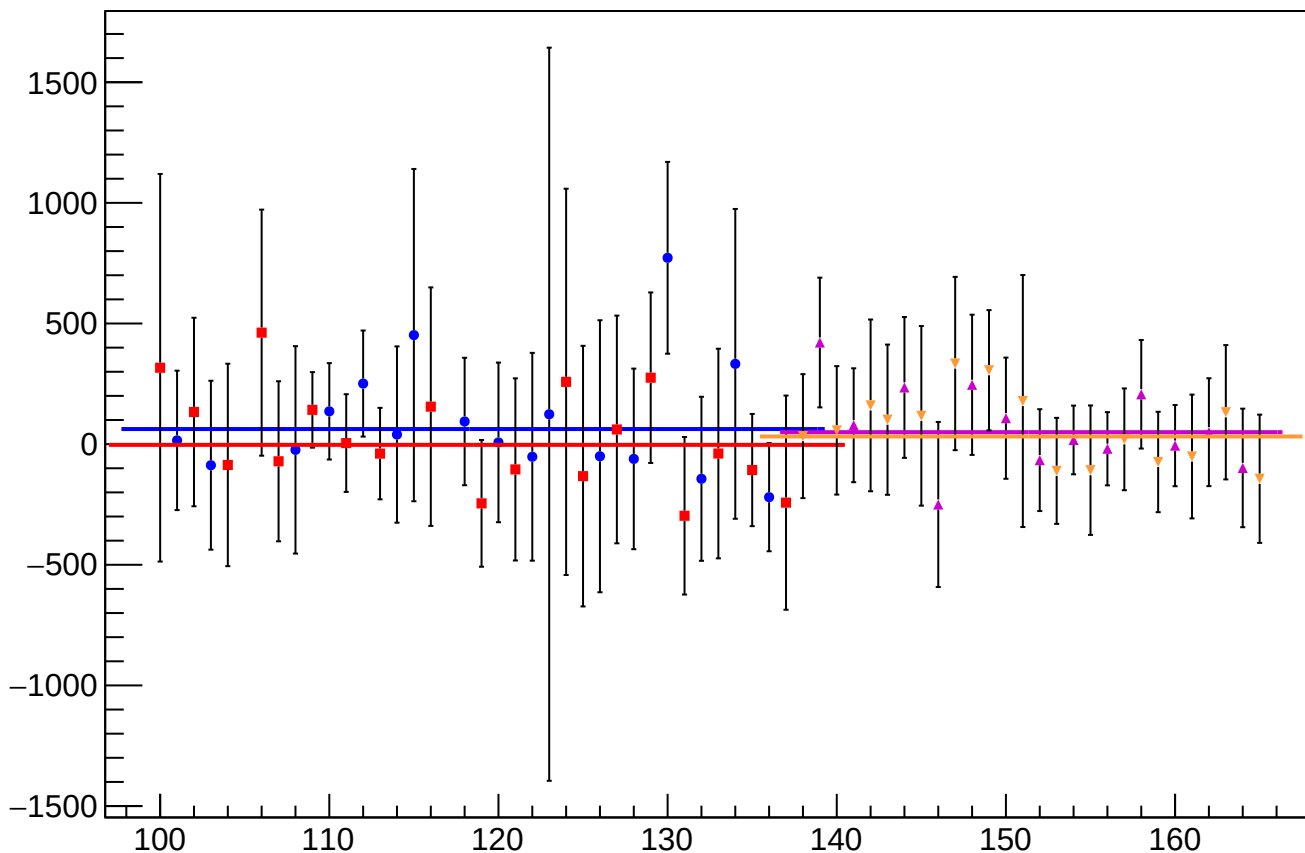
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.486 $\pm$ 0.004 χ^2 /NDF: 22899.0/29

Out: 22.552 $\pm$ 0.004 χ^2 /NDF: 21088.6/33

All: 22.520 $\pm$ 0.003 χ^2 /NDF: 44139.4/63

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 62.573+/-79.605 χ^2/NDF : 7.0/16

Left Out: 31.717+/-69.899 χ^2/NDF : 3.9/14

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 49.665+/-59.061 χ^2/NDF : 5.1/12

Left: 42.189+/-45.113 χ^2/NDF : 9.0/27

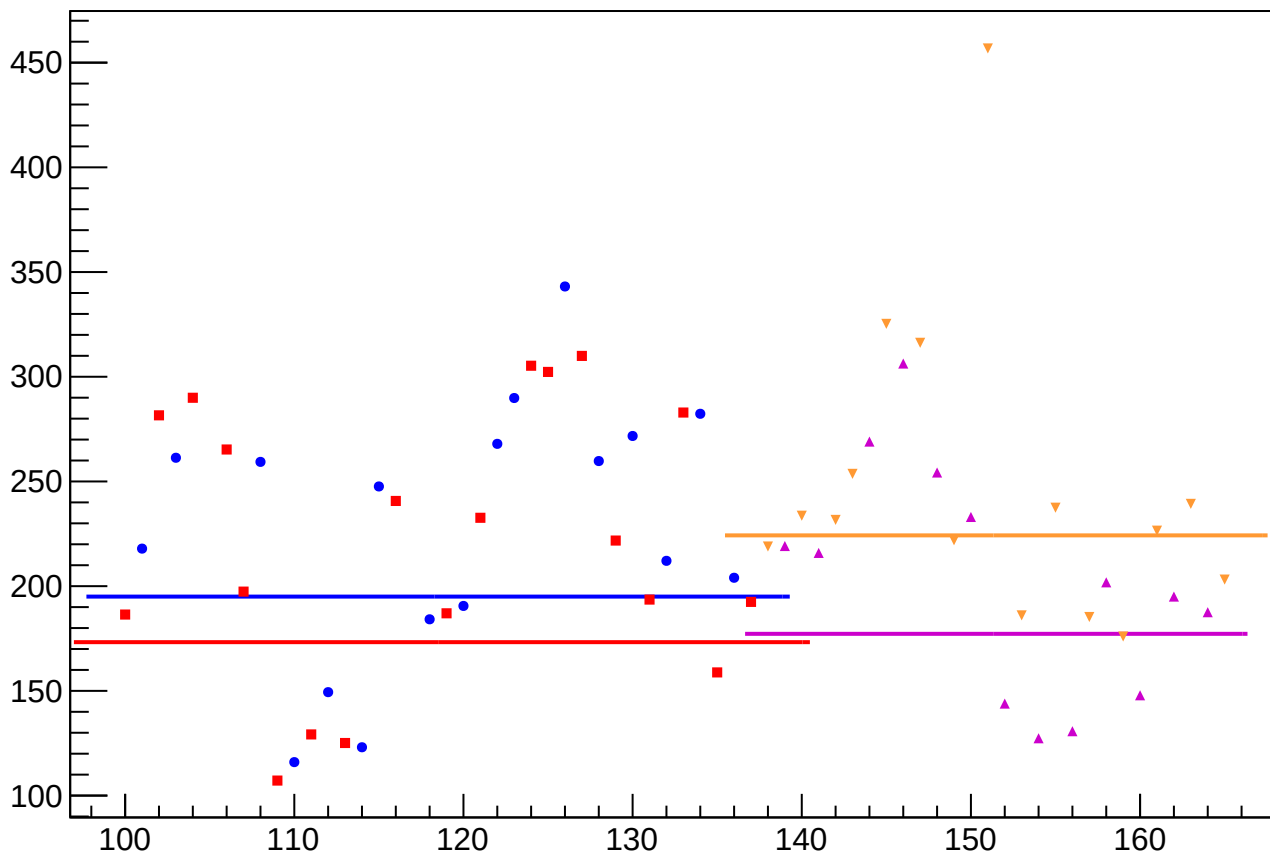
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 54.248+/-47.432 χ^2/NDF : 12.2/29

Out: 14.493+/-49.643 χ^2/NDF : 9.2/33

All: 35.275+/-34.295 χ^2/NDF : 21.7/63

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022 $\pm$ 0.056 χ^2 /NDF: 1004284.9/16

Left Out: 224.255 $\pm$ 0.049 χ^2 /NDF: 956948.9/14

Right Out: 173.262 $\pm$ 0.050 χ^2 /NDF: 1578202.7/18

Left In: 177.241 $\pm$ 0.042 χ^2 /NDF: 1408152.5/12

Left: 196.825 $\pm$ 0.032 χ^2 /NDF: 2893009.7/27

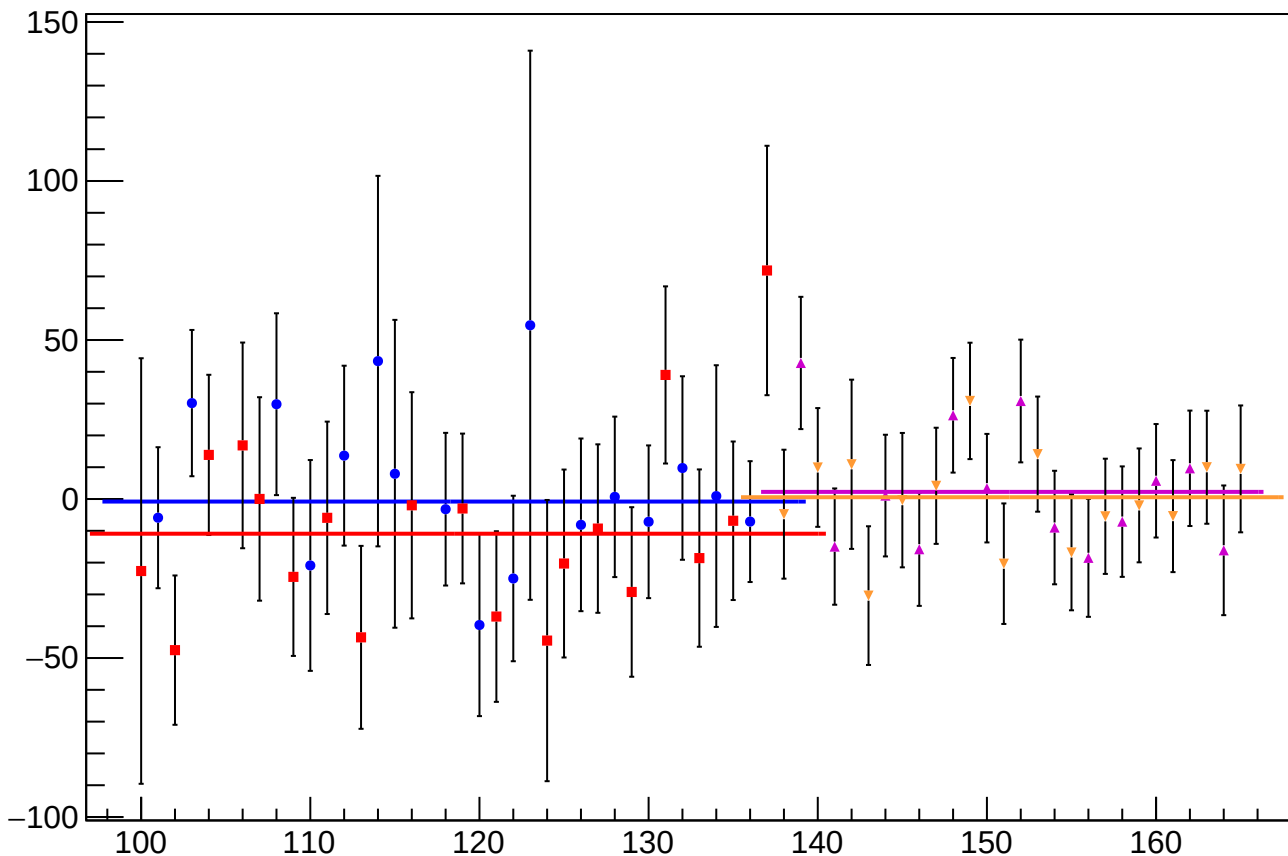
Right: 182.829 $\pm$ 0.037 χ^2 /NDF: 2666222.6/35

In: 183.554 $\pm$ 0.034 χ^2 /NDF: 2476797.4/29

Out: 198.983 $\pm$ 0.035 χ^2 /NDF: 3062681.0/33

All: 190.917 $\pm$ 0.024 χ^2 /NDF: 5640480.5/63

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.801 ± 6.770 χ^2/NDF : 7.8/16

Left Out: 0.560 ± 4.940 χ^2/NDF : 8.7/14

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 2.245 ± 5.108 χ^2/NDF : 12.6/12

Left: 1.374 ± 3.551 χ^2/NDF : 21.4/27

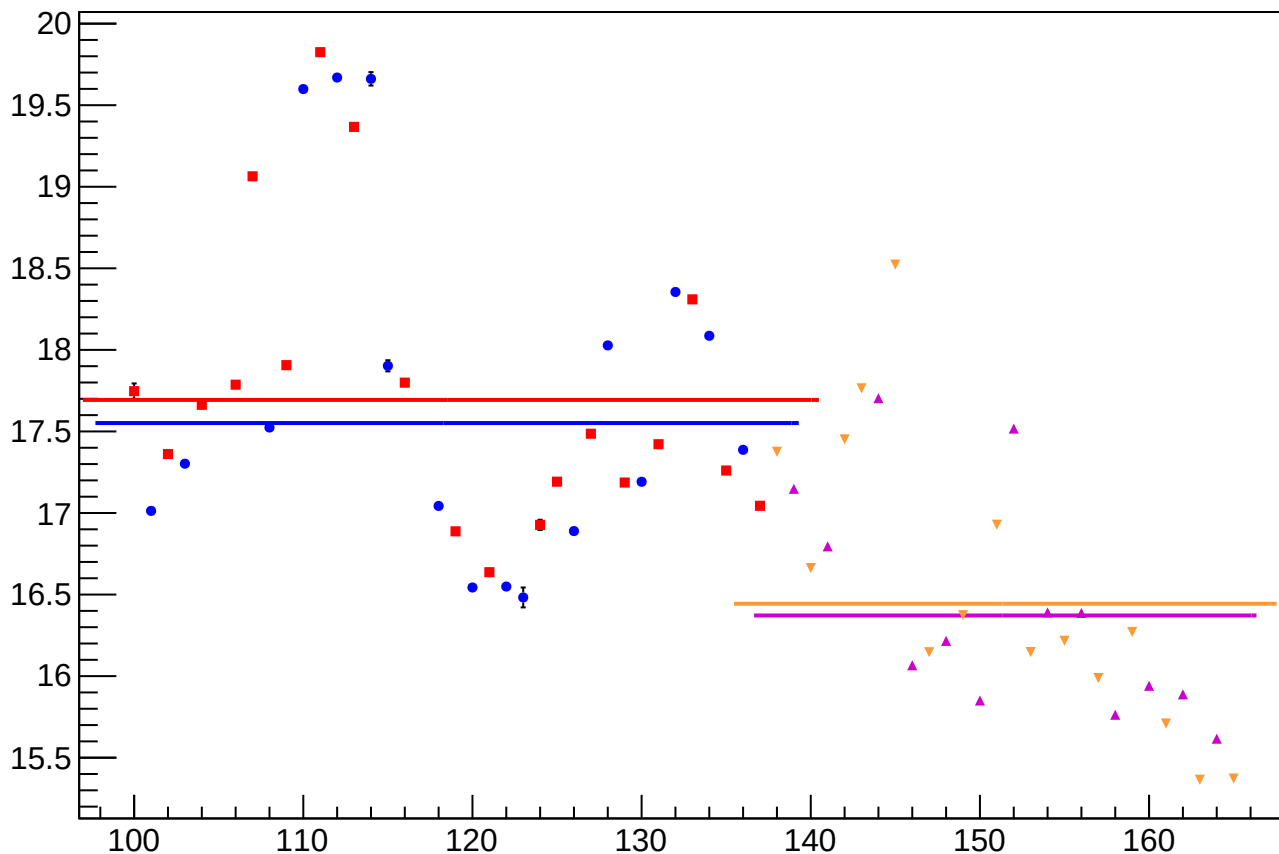
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 1.140 ± 4.078 χ^2/NDF : 20.5/29

Out: -3.538 ± 3.961 χ^2/NDF : 26.5/33

All: -1.267 ± 2.841 χ^2/NDF : 47.8/63

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.552 $\pm$ 0.005 χ^2 /NDF: 34027.1/16

Left Out: 16.444 $\pm$ 0.003 χ^2 /NDF:54842.2/14

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.372 $\pm$ 0.004 χ^2 /NDF:31001.5/12

Left: 16.409 $\pm$ 0.003 χ^2 /NDF: 86048.9/27

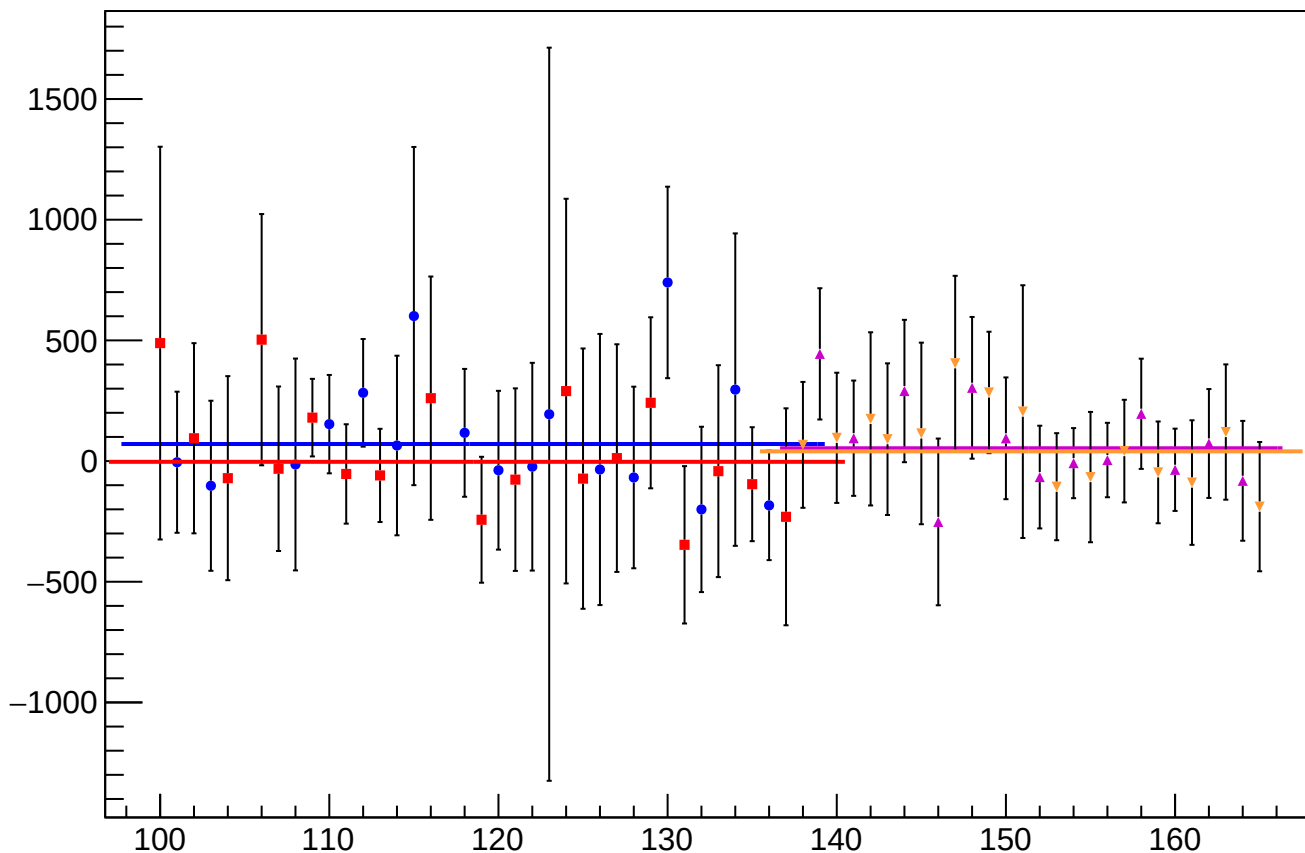
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.800 $\pm$ 0.003 χ^2 /NDF:103725.2/29

Out: 16.890 $\pm$ 0.003 χ^2 /NDF:131298.9/33

All: 16.846 $\pm$ 0.002 χ^2 /NDF: 235530.1/63

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634+/-80.409 χ^2/NDF : 7.2/16

Left Out: 40.202+/-70.561 χ^2/NDF : 4.1/14

Right Out: -3.063+/-71.508 χ^2/NDF : 6.2/18

Left In: 53.041+/-59.834 χ^2/NDF : 5.8/12

Left: 47.670+/-45.636 χ^2/NDF : 10.0/27

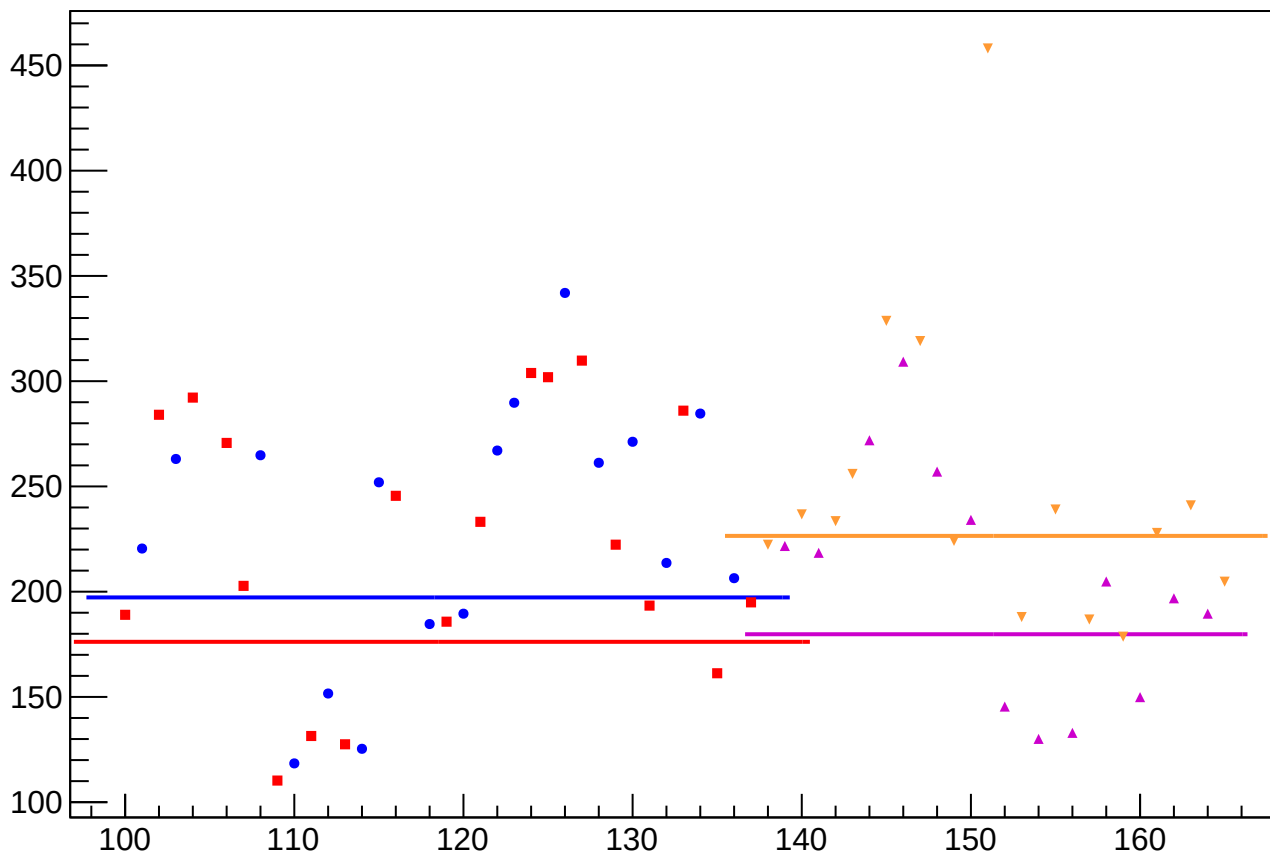
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 59.311+/-48.003 χ^2/NDF : 13.1/29

Out: 18.857+/-50.226 χ^2/NDF : 10.5/33

All: 39.999+/-34.702 χ^2/NDF : 23.9/63

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271+/-0.057 χ^2/NDF : 969549.7/16

Left Out: 226.502+/-0.050 χ^2/NDF : 947408.5/14

Right Out: 176.181+/-0.051 χ^2/NDF : 1519707.5/18

Left In: 179.783+/-0.042 χ^2/NDF : 1378861.2/12

Left: 199.325+/-0.032 χ^2/NDF : 2836307.1/27

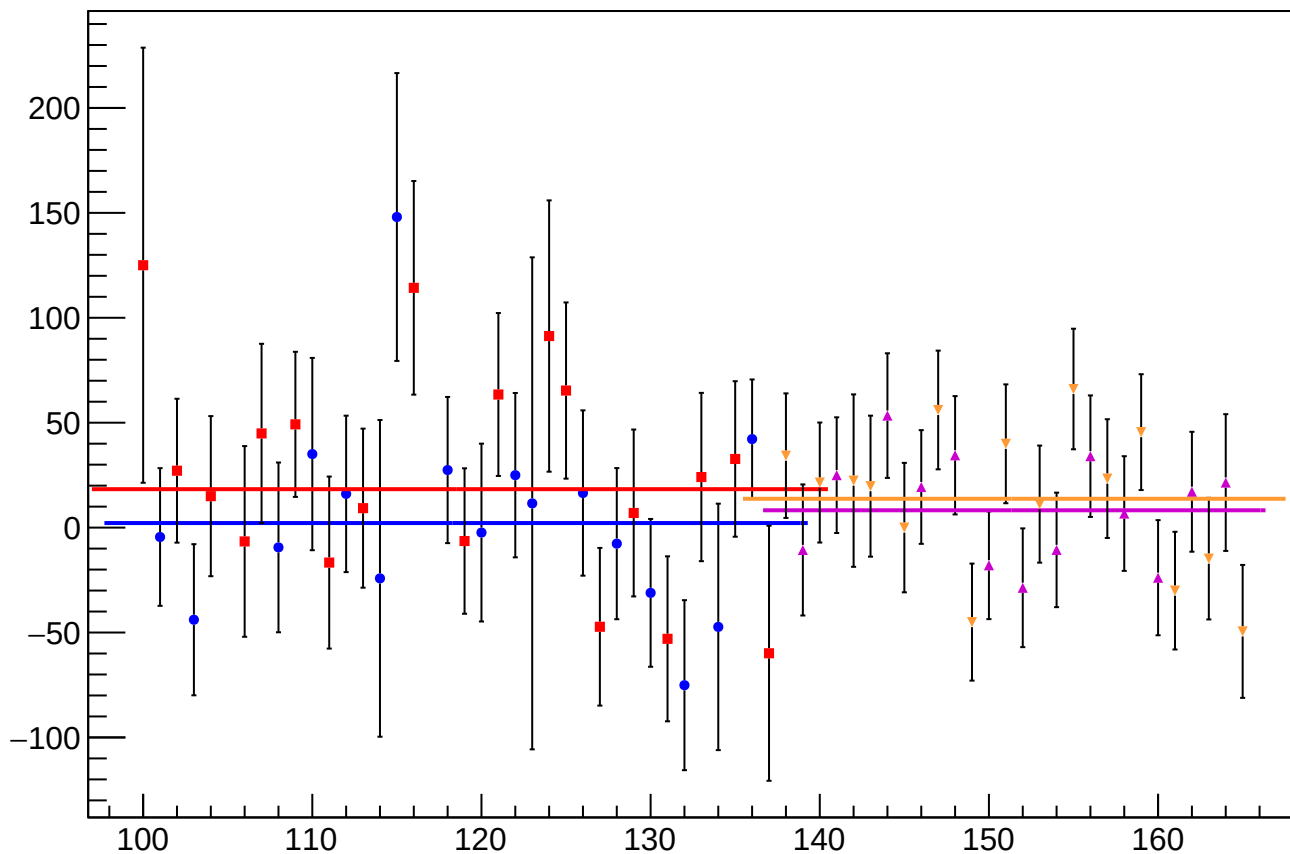
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 186.015+/-0.034 χ^2/NDF : 2409302.8/29

Out: 201.677+/-0.036 χ^2/NDF : 2968940.0/33

All: 193.492+/-0.025 χ^2/NDF : 5479872.7/63

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 ± 9.825 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 13.740 ± 7.628 $\chi^2/\text{NDF}: 20.5/14$

Right Out: 18.320 ± 9.497 $\chi^2/\text{NDF}: 19.6/18$

Left In: 8.254 ± 7.849 $\chi^2/\text{NDF}: 9.7/12$

Left: 11.075 ± 5.470 $\chi^2/\text{NDF}: 30.5/27$

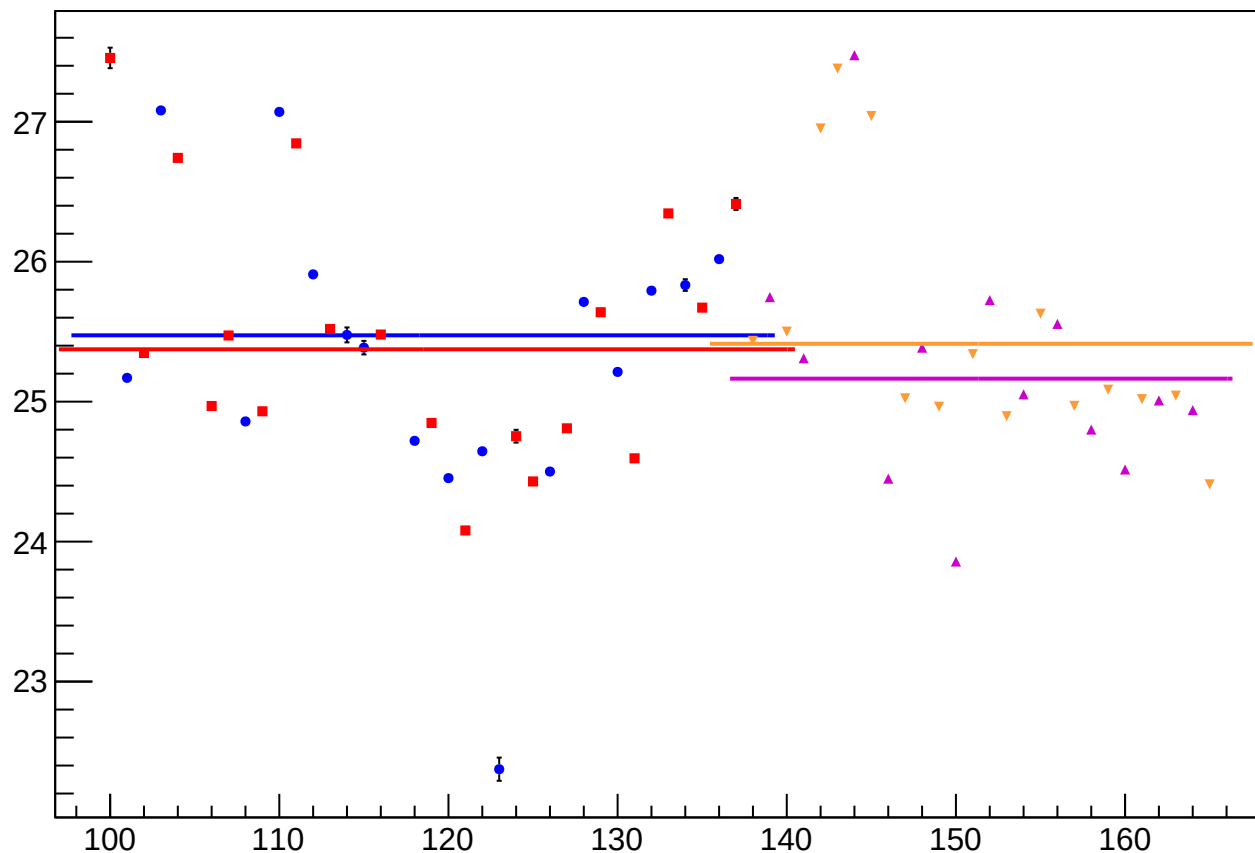
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: 5.887 ± 6.132 $\chi^2/\text{NDF}: 25.3/29$

Out: 15.536 ± 5.947 $\chi^2/\text{NDF}: 40.2/33$

All: 10.859 ± 4.269 $\chi^2/\text{NDF}: 66.9/63$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.474 $\pm$ 0.007 χ^2 /NDF: 14061.2/16

Left Out: 25.413 $\pm$ 0.005 χ^2 /NDF:20461.1/14

Right Out: 25.374 $\pm$ 0.007 χ^2 /NDF: 13581.2/18

Left In: 25.164 $\pm$ 0.006 χ^2 /NDF:22375.5/12

Left: 25.292 $\pm$ 0.004 χ^2 /NDF: 43872.9/27

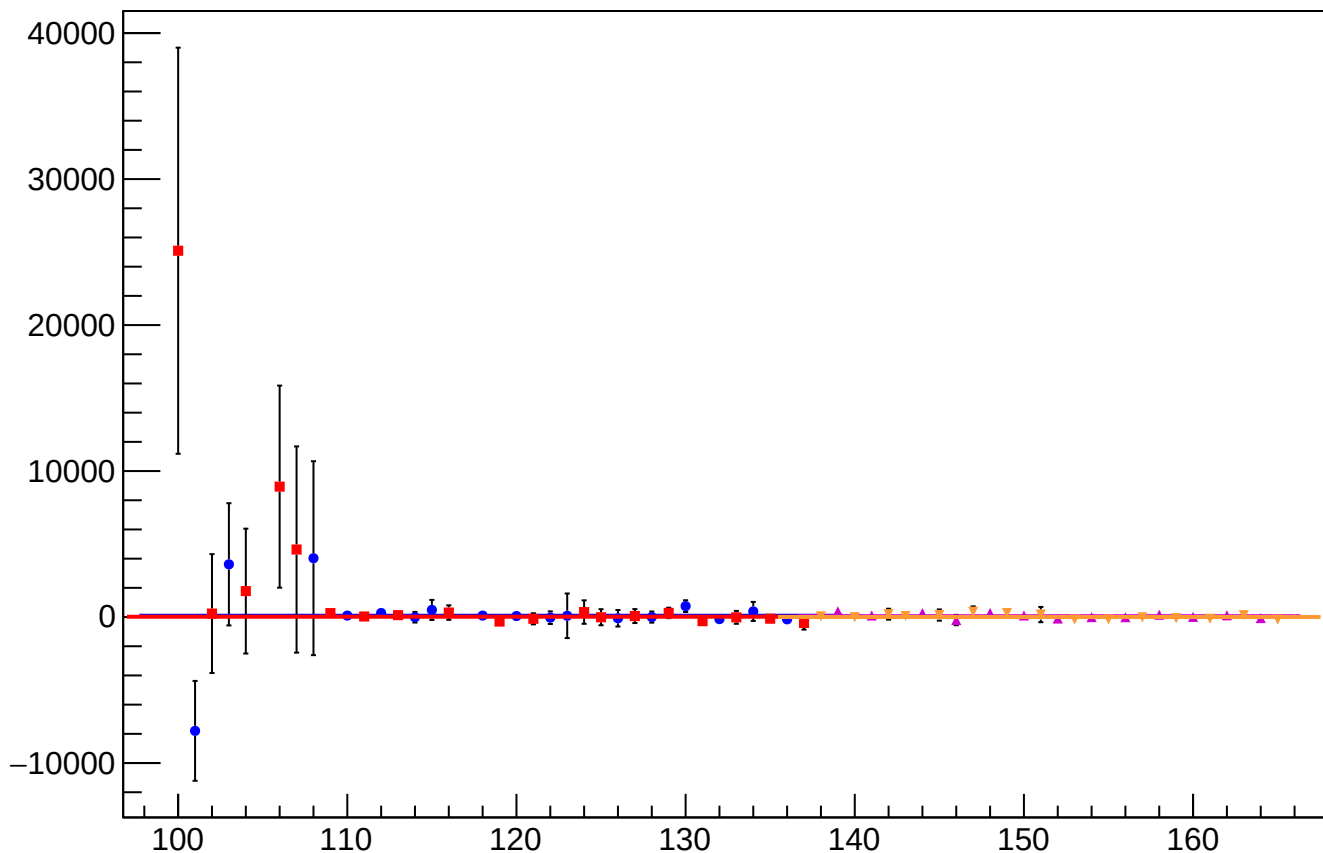
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.285 $\pm$ 0.004 χ^2 /NDF:37649.1/29

Out: 25.398 $\pm$ 0.004 χ^2 /NDF:34063.3/33

All: 25.343 $\pm$ 0.003 χ^2 /NDF: 72062.6/63

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.619+/-87.630 χ^2/NDF : 12.3/16

Left Out: 3.234+/-71.288 χ^2/NDF : 4.6/14

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 58.470+/-60.629 χ^2/NDF : 4.8/12

Left: 35.286+/-46.185 χ^2/NDF : 9.8/27

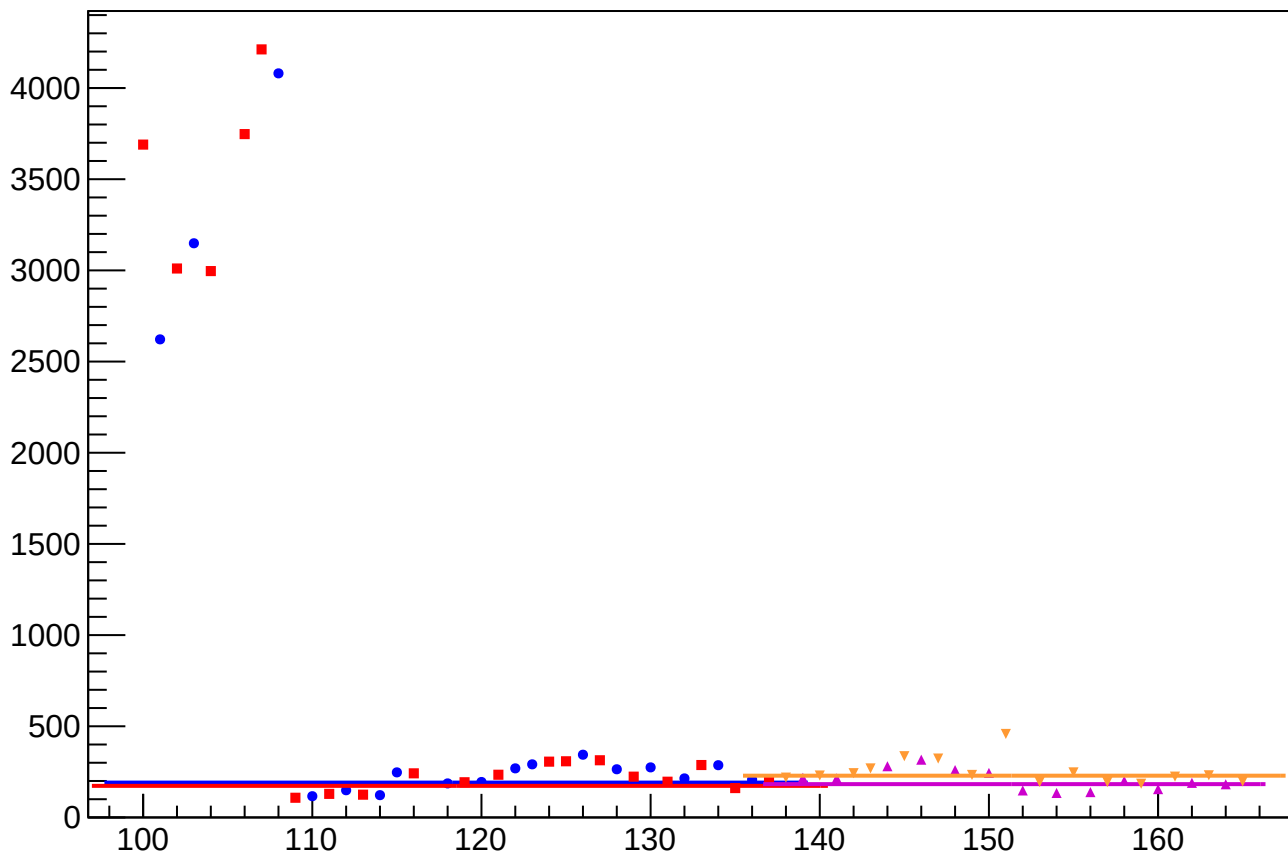
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 68.554+/-49.859 χ^2/NDF : 17.2/29

Out: 11.705+/-53.486 χ^2/NDF : 16.5/33

All: 42.122+/-36.470 χ^2/NDF : 34.3/63

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.190+/-0.062 χ^2/NDF : 3571747.5/16

Left Out: 229.089+/-0.050 χ^2/NDF : 927203.4/14

Right Out: 173.269+/-0.057 χ^2/NDF : 4207191.5/18

Left In: 182.739+/-0.043 χ^2/NDF : 1279964.1/12

Left: 202.193+/-0.033 χ^2/NDF : 2697768.6/27

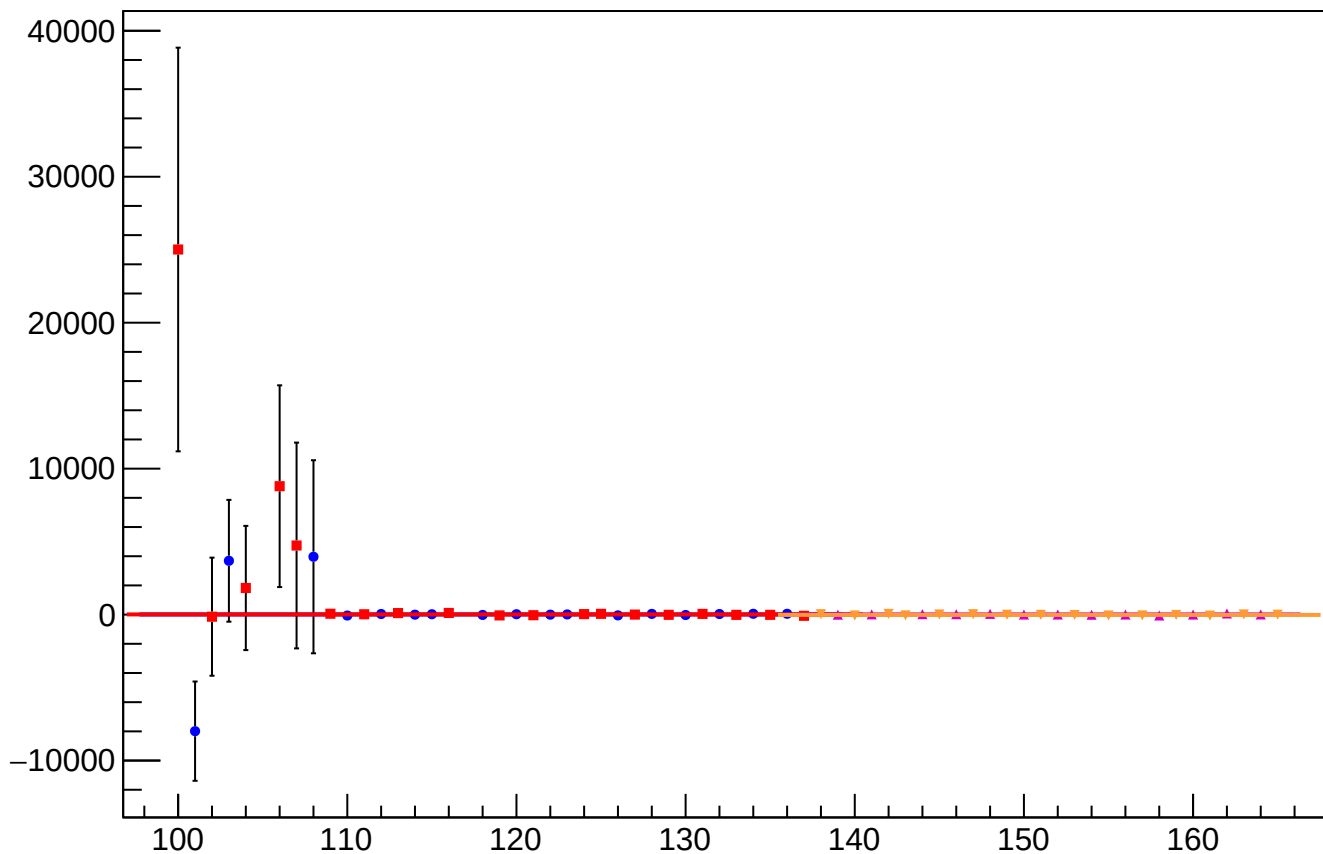
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 185.475+/-0.035 χ^2/NDF : 4864291.6/29

Out: 204.691+/-0.038 χ^2/NDF : 5670355.4/33

All: 194.409+/-0.026 χ^2/NDF : 10672775.7/63

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.398+/-12.190 χ^2/NDF : 18.3/16

Left Out: -20.190+/-8.804 χ^2/NDF :15.6/14

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 13.343+/-9.127 χ^2/NDF :13.8/12

Left: -4.027+/-6.337 χ^2/NDF : 36.4/27

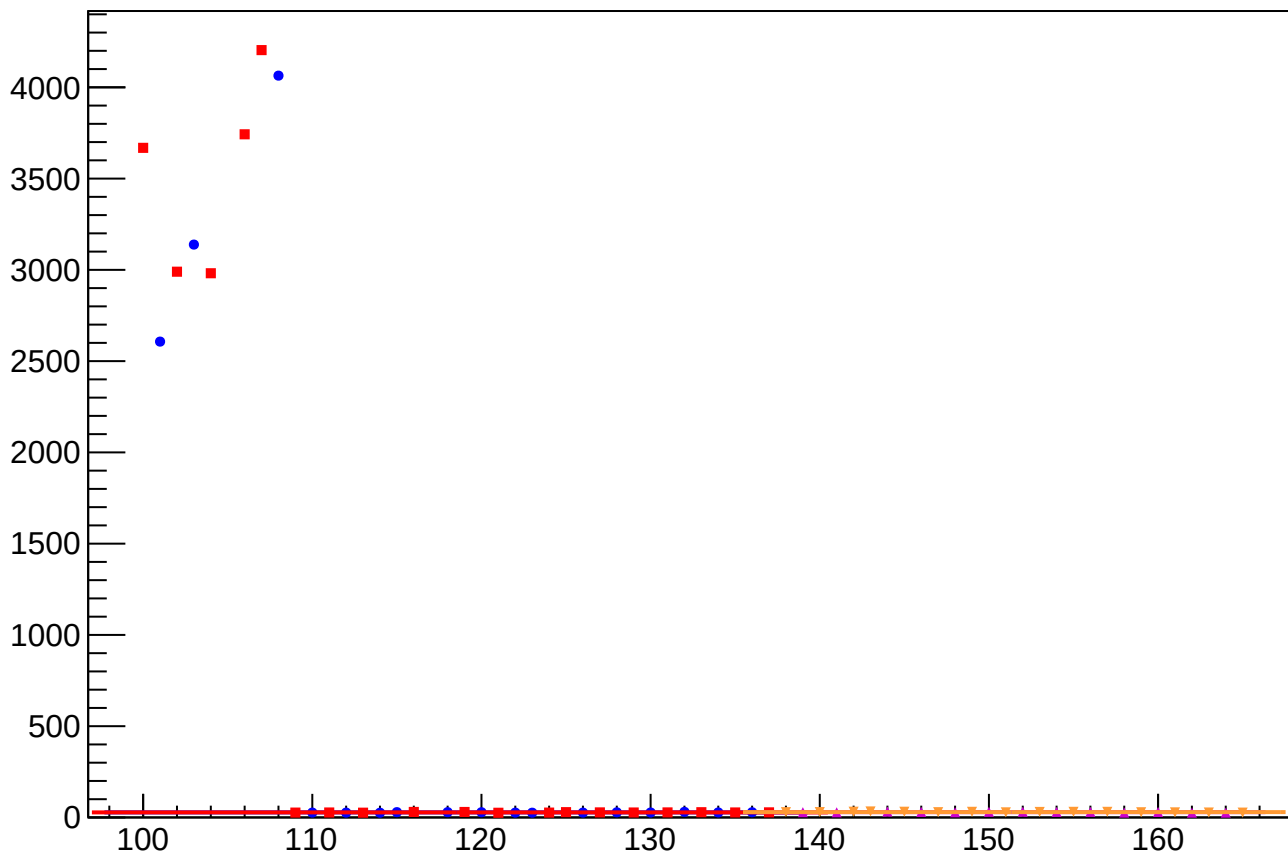
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 12.285+/-7.306 χ^2/NDF :32.1/29

Out: -8.876+/-7.145 χ^2/NDF :44.8/33

All: 1.468+/-5.108 χ^2/NDF : 81.2/63

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837+/-0.009 χ^2/NDF : 3026887.2/16

Left Out: 29.275+/-0.006 χ^2/NDF : 72268.0/14

Right Out: 27.694+/-0.009 χ^2/NDF : 3476801.0/18

Left In: 29.181+/-0.006 χ^2/NDF : 93772.1/12

Left: 29.230+/-0.004 χ^2/NDF : 166150.7/27

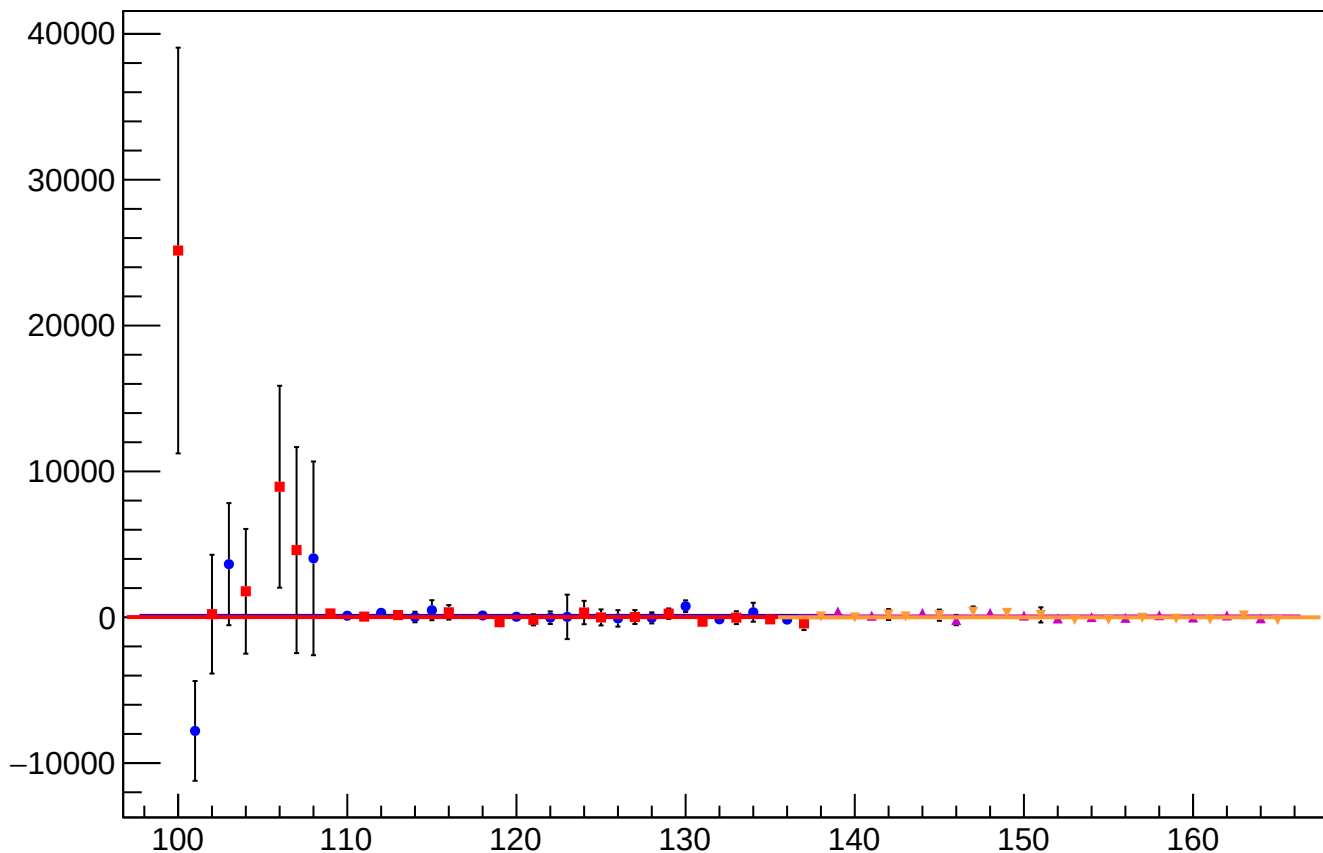
Right: 27.765+/-0.006 χ^2/NDF : 6503824.5/35

In: 28.698+/-0.005 χ^2/NDF : 3136245.1/29

Out: 28.735+/-0.005 χ^2/NDF : 3571094.1/33

All: 28.717+/-0.004 χ^2/NDF : 6707365.9/63

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840 $\pm$ 87.359 χ^2 /NDF: 12.6/16

Left Out: -5.189 $\pm$ 71.134 χ^2 /NDF:5.3/14

Right Out: 12.772 $\pm$ 80.640 χ^2 /NDF: 12.7/18

Left In: 56.460 $\pm$ 60.513 χ^2 /NDF:5.0/12

Left: 30.577 $\pm$ 46.092 χ^2 /NDF: 10.7/27

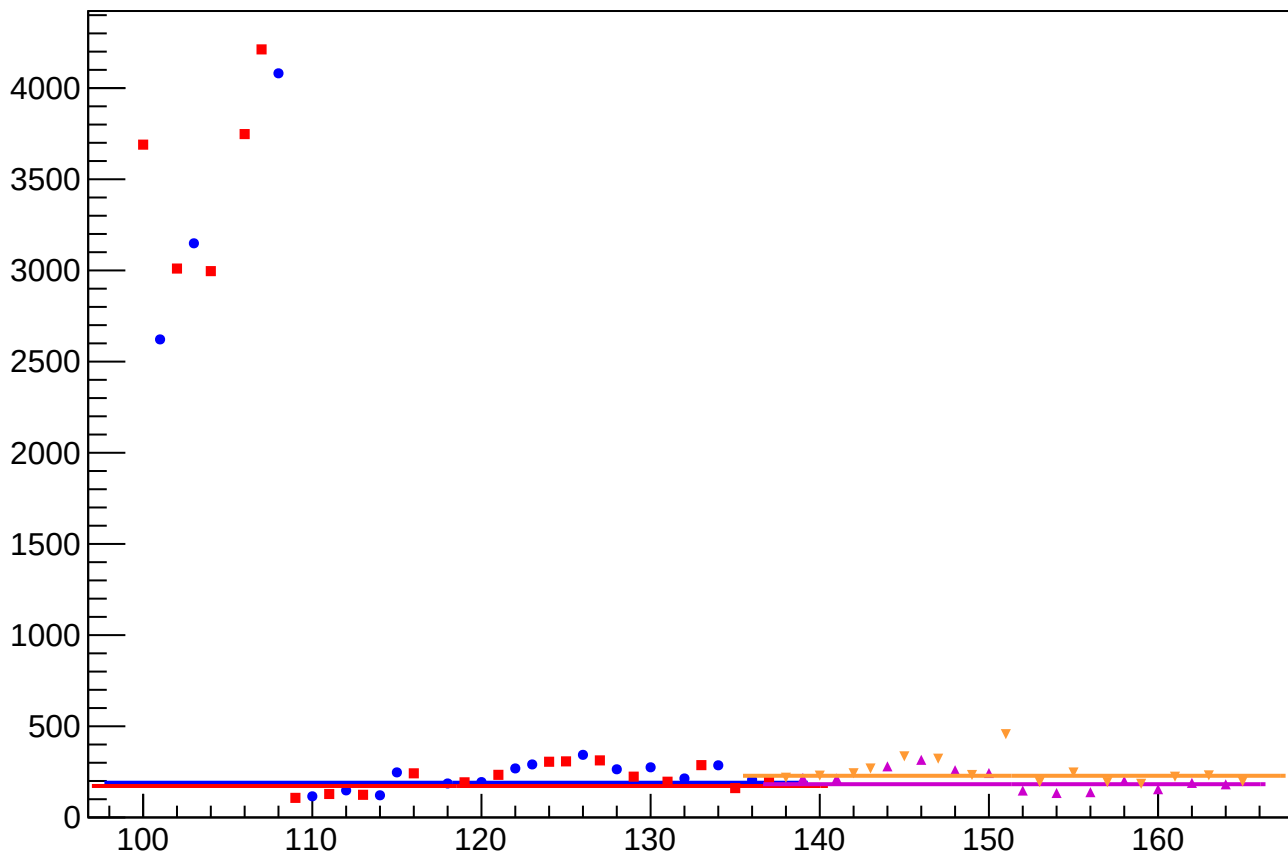
Right: 49.609 $\pm$ 59.254 χ^2 /NDF: 25.7/35

In: 68.256 $\pm$ 49.744 χ^2 /NDF:17.7/29

Out: 2.671 $\pm$ 53.345 χ^2 /NDF:18.0/33

All: 37.752 $\pm$ 36.381 χ^2 /NDF: 36.5/63

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.485+/-0.062 χ^2/NDF : 3583573.2/16

Left Out: 228.596+/-0.050 χ^2/NDF : 926976.0/14

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 182.391+/-0.043 χ^2/NDF : 1280222.7/12

Left: 201.790+/-0.033 χ^2/NDF : 2696743.0/27

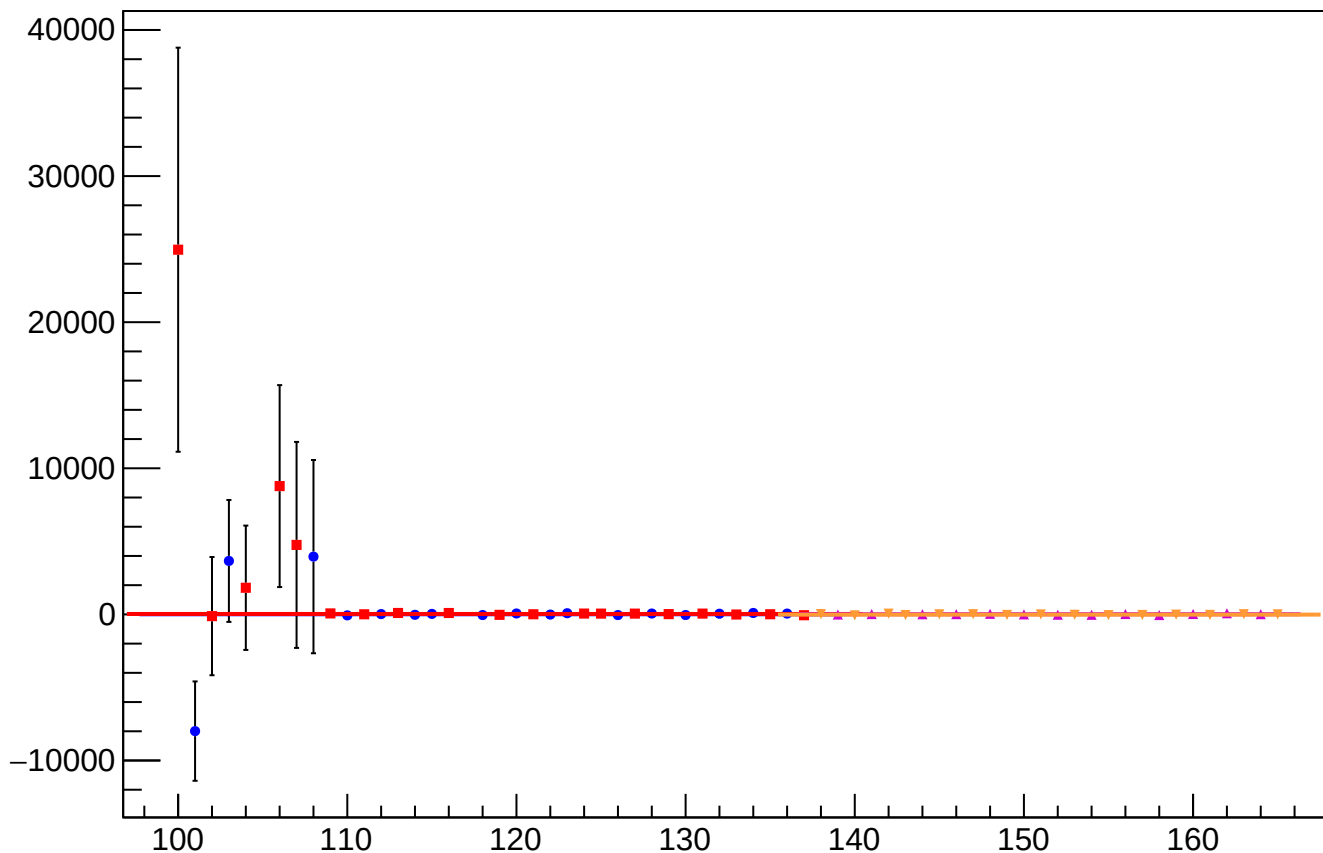
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 185.016+/-0.035 χ^2/NDF : 4875398.4/29

Out: 204.092+/-0.038 χ^2/NDF : 5687678.2/33

All: 193.888+/-0.026 χ^2/NDF : 10699880.6/63

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.600 $\pm$ 12.273 χ^2 /NDF: 23.2/16

Left Out: -14.670 $\pm$ 8.879 χ^2 /NDF:10.3/14

Right Out: 29.627 $\pm$ 12.328 χ^2 /NDF: 16.5/18

Left In: 11.259 $\pm$ 9.191 χ^2 /NDF:12.7/12

Left: -2.153 $\pm$ 6.386 χ^2 /NDF: 27.1/27

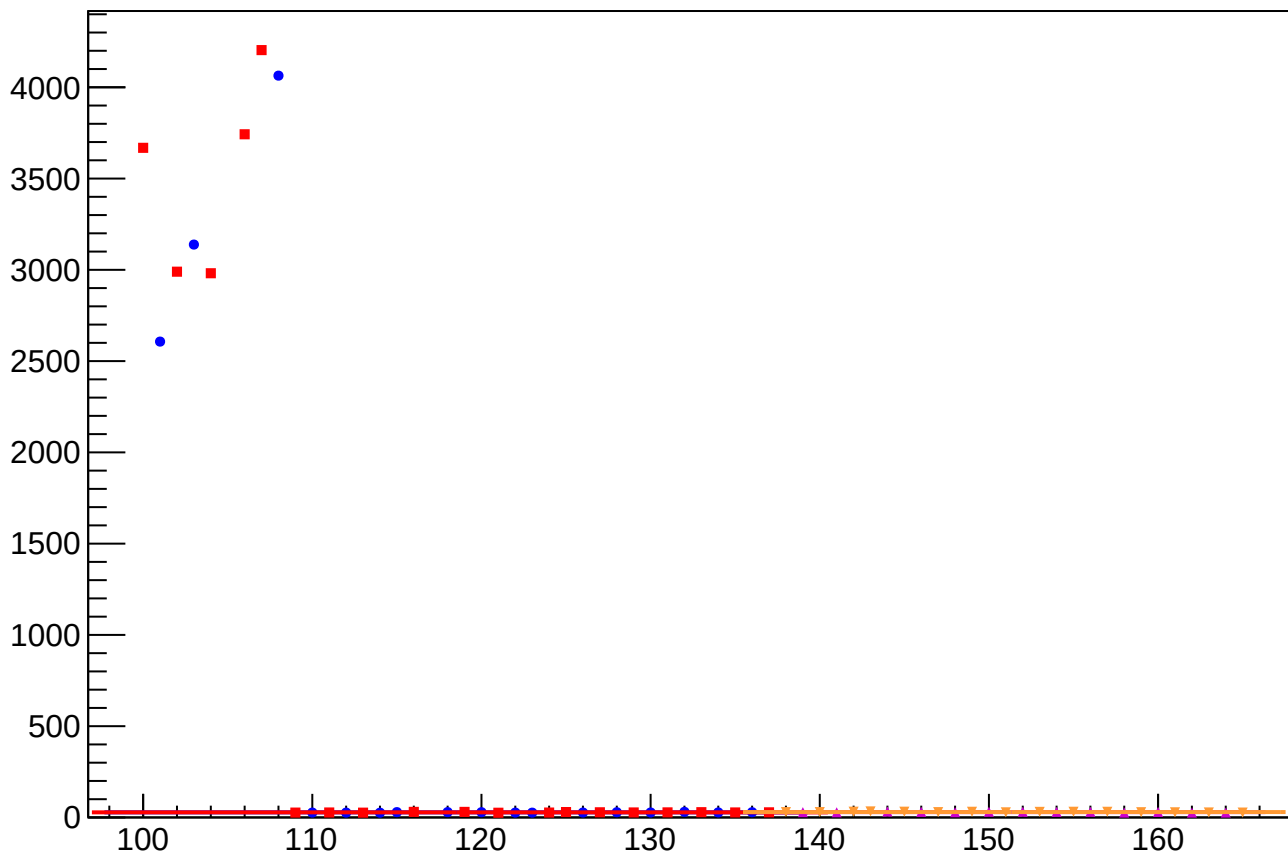
Right: 19.569 $\pm$ 8.698 χ^2 /NDF: 41.1/35

In: 10.663 $\pm$ 7.357 χ^2 /NDF:35.9/29

Out: 0.460 $\pm$ 7.205 χ^2 /NDF:35.3/33

All: 5.455 $\pm$ 5.148 χ^2 /NDF: 72.2/63

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023+/-0.009 χ^2/NDF : 3027003.0/16

Left Out: 29.523+/-0.006 χ^2/NDF : 72390.3/14

Right Out: 27.917+/-0.009 χ^2/NDF : 3479610.6/18

Left In: 29.391+/-0.006 χ^2/NDF : 91822.7/12

Left: 29.459+/-0.005 χ^2/NDF : 164428.2/27

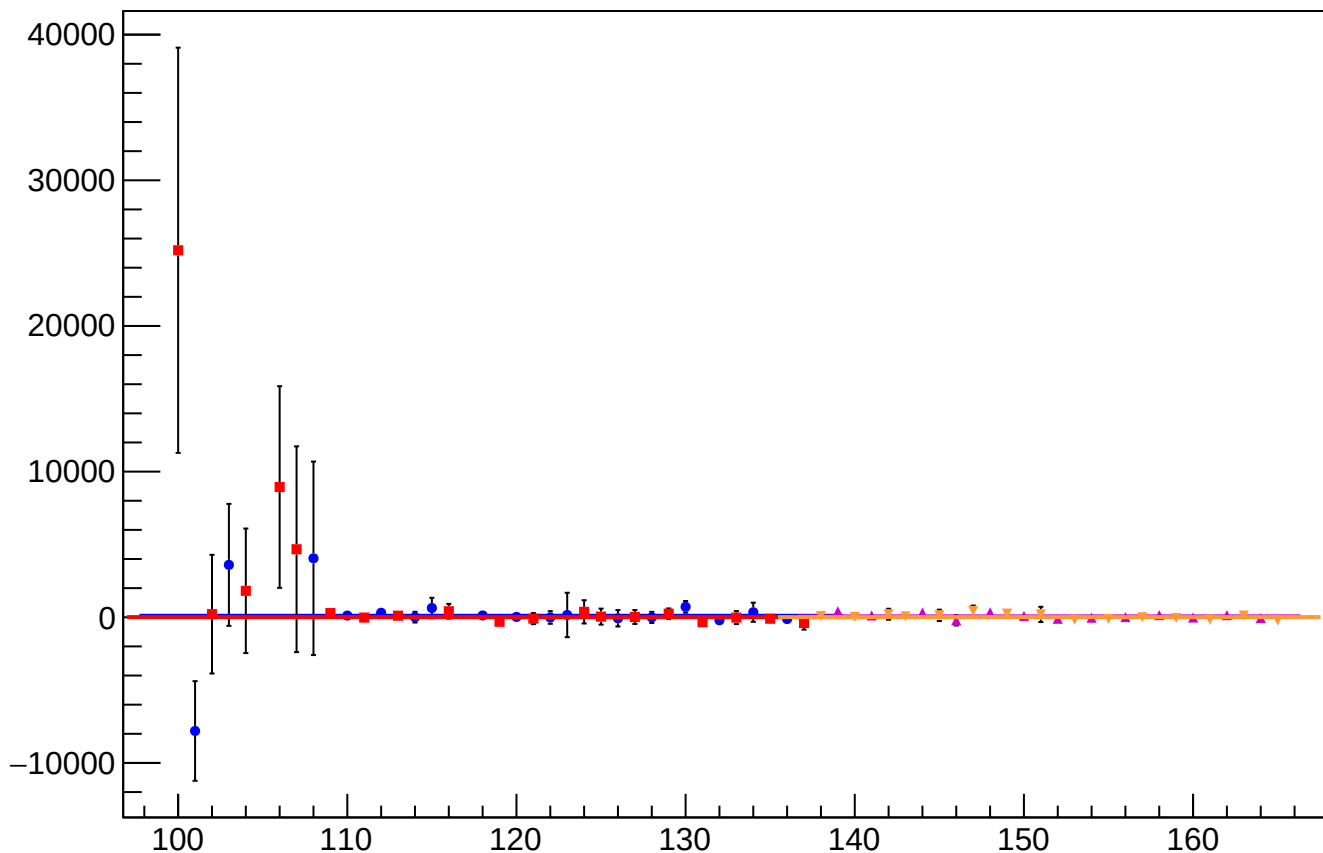
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.899+/-0.005 χ^2/NDF : 3134740.5/29

Out: 28.975+/-0.005 χ^2/NDF : 3574355.2/33

All: 28.938+/-0.004 χ^2/NDF : 6709202.9/63

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.772 $\pm$ 88.390 χ^2 /NDF: 12.4/16

Left Out: 10.886 $\pm$ 71.951 χ^2 /NDF:5.0/14

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 62.353 $\pm$ 61.398 χ^2 /NDF:5.7/12

Left: 40.667 $\pm$ 46.705 χ^2 /NDF: 11.0/27

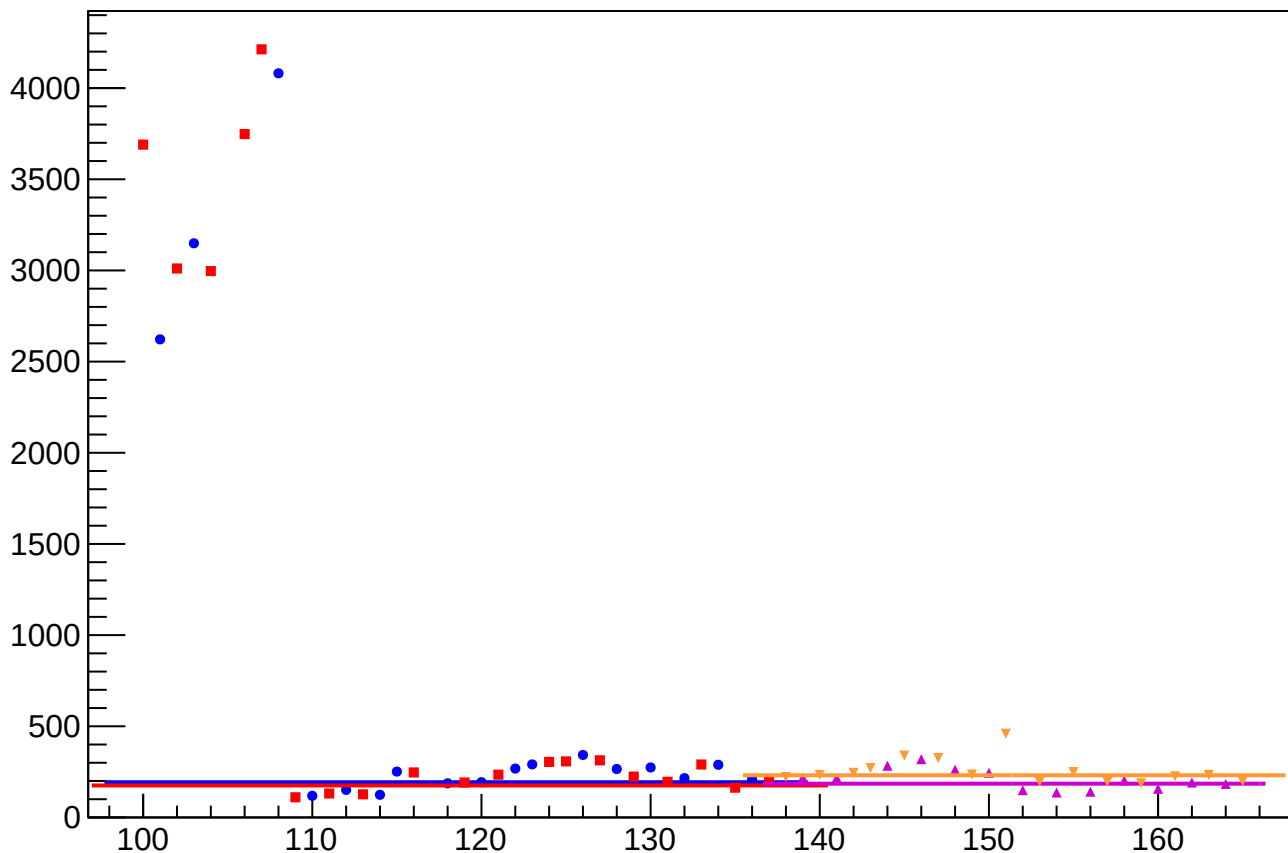
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 75.183 $\pm$ 50.426 χ^2 /NDF:18.2/29

Out: 11.035 $\pm$ 54.005 χ^2 /NDF:17.3/33

All: 45.304 $\pm$ 36.857 χ^2 /NDF: 36.2/63

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.190+/-0.063 χ^2/NDF : 3536123.5/16

Left Out: 231.334+/-0.051 χ^2/NDF : 918429.3/14

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 185.262+/-0.043 χ^2/NDF : 1254591.0/12

Left: 204.675+/-0.033 χ^2/NDF : 2647509.0/27

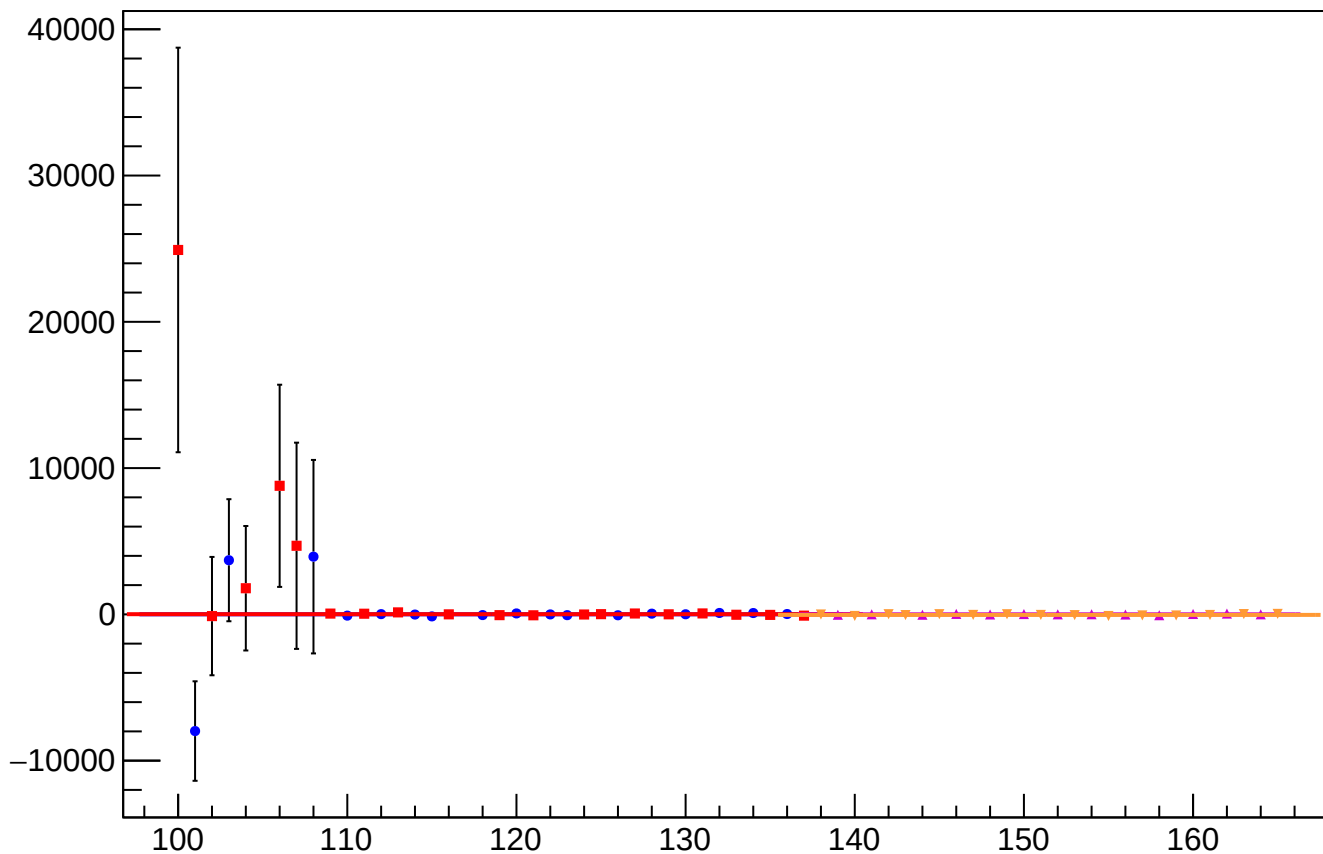
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 187.843+/-0.036 χ^2/NDF : 4801566.4/29

Out: 206.948+/-0.038 χ^2/NDF : 5609957.2/33

All: 196.741+/-0.026 χ^2/NDF : 10545245.8/63

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651 ± 14.935 $\chi^2/\text{NDF}: 20.4/16$

Left Out: -35.698 ± 10.482 $\chi^2/\text{NDF}: 17.1/14$

Right Out: 12.487 ± 14.947 $\chi^2/\text{NDF}: 21.7/18$

Left In: 3.542 ± 10.882 $\chi^2/\text{NDF}: 7.1/12$

Left: -16.813 ± 7.549 $\chi^2/\text{NDF}: 30.9/27$

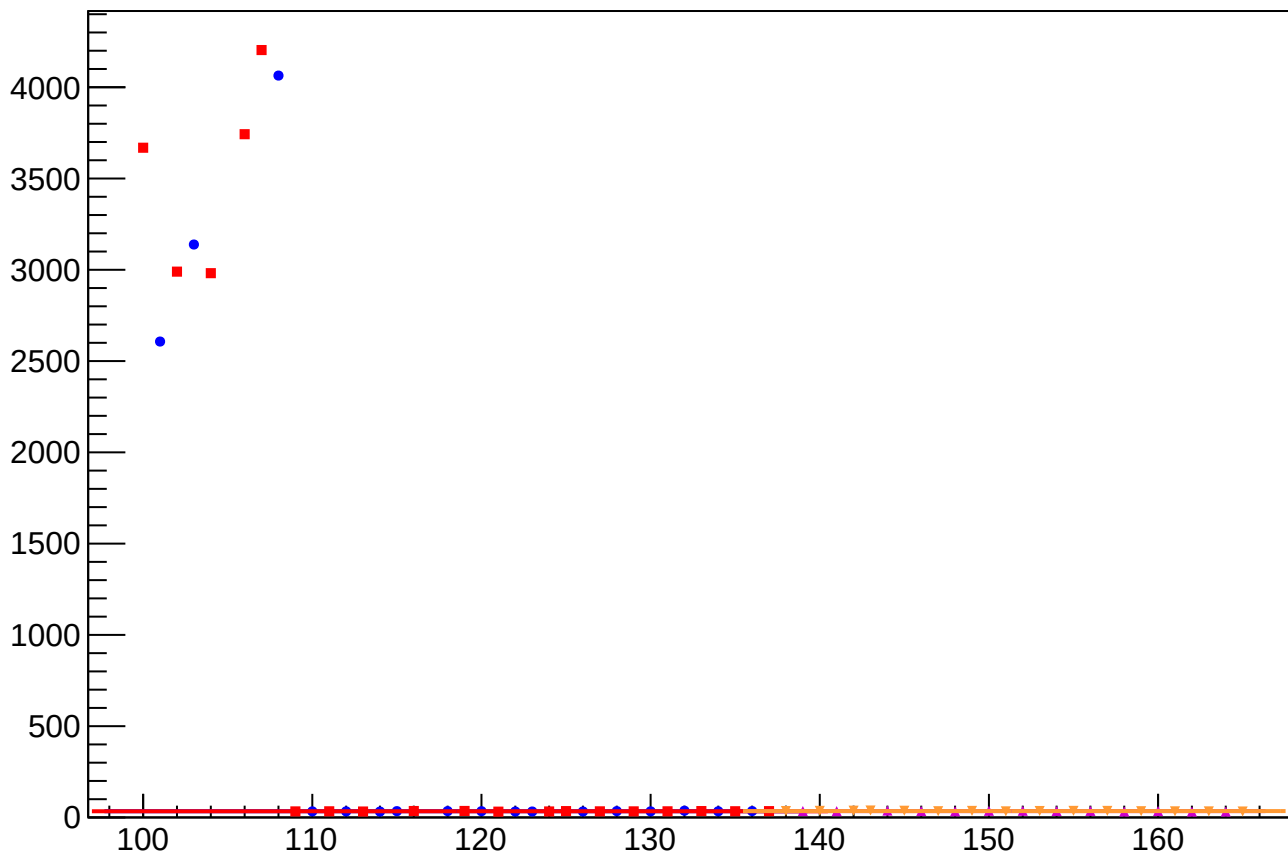
Right: 8.566 ± 10.565 $\chi^2/\text{NDF}: 42.2/35$

In: 3.927 ± 8.795 $\chi^2/\text{NDF}: 27.5/29$

Out: -19.813 ± 8.582 $\chi^2/\text{NDF}: 45.7/33$

All: -8.234 ± 6.142 $\chi^2/\text{NDF}: 76.9/63$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.137 $\pm$ 0.011 χ^2 /NDF: 3006248.0/16

Left Out: 34.905 $\pm$ 0.007 χ^2 /NDF:39218.7/14

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.865 $\pm$ 0.008 χ^2 /NDF:43400.9/12

Left: 34.886 $\pm$ 0.005 χ^2 /NDF: 82633.8/27

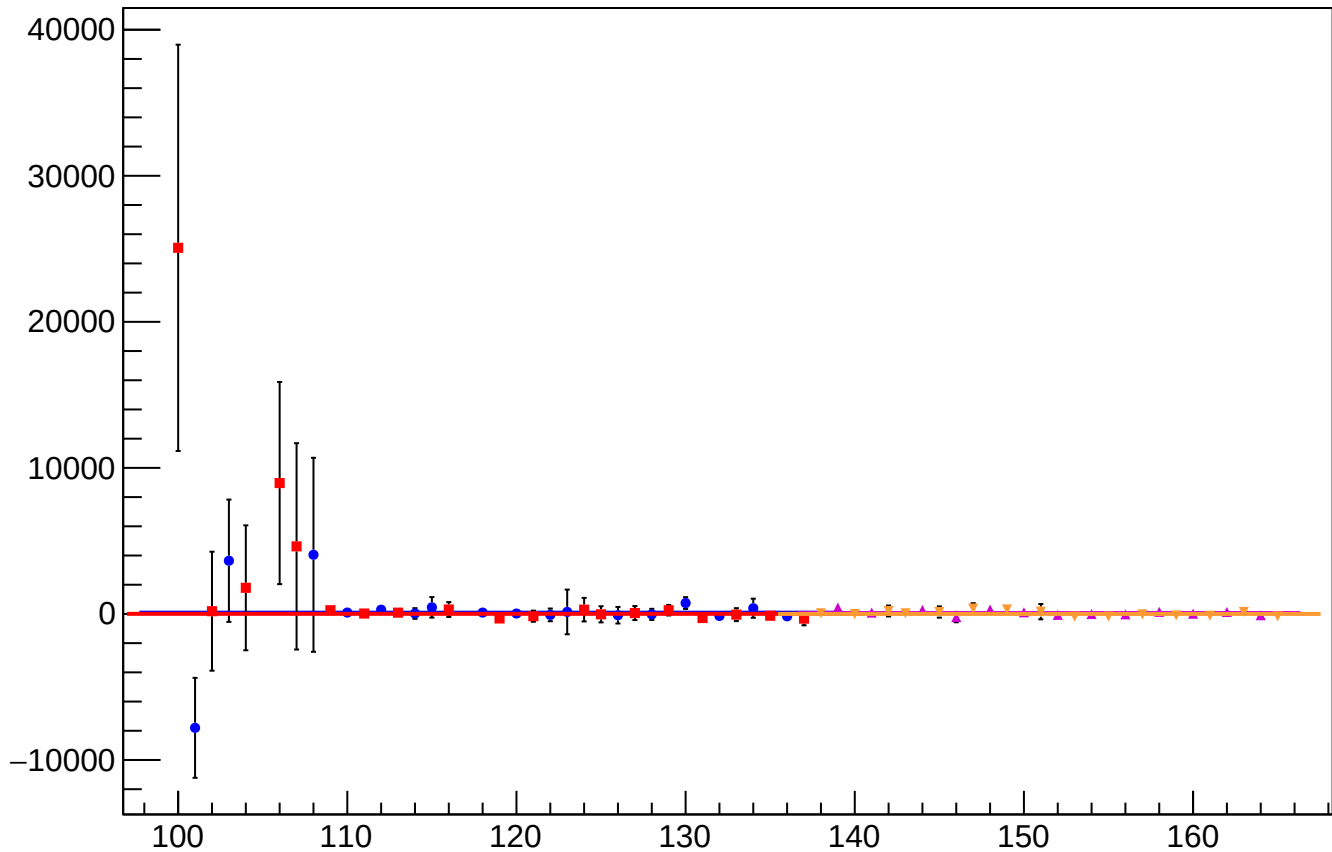
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.613 $\pm$ 0.006 χ^2 /NDF:3052752.2/29

Out: 34.578 $\pm$ 0.006 χ^2 /NDF:3497022.6/33

All: 34.595 $\pm$ 0.004 χ^2 /NDF: 6549790.8/63

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: -0.147+/-71.781 χ^2/NDF : 5.1/14

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 60.469+/-61.214 χ^2/NDF : 5.2/12

Left: 34.947+/-46.577 χ^2/NDF : 10.7/27

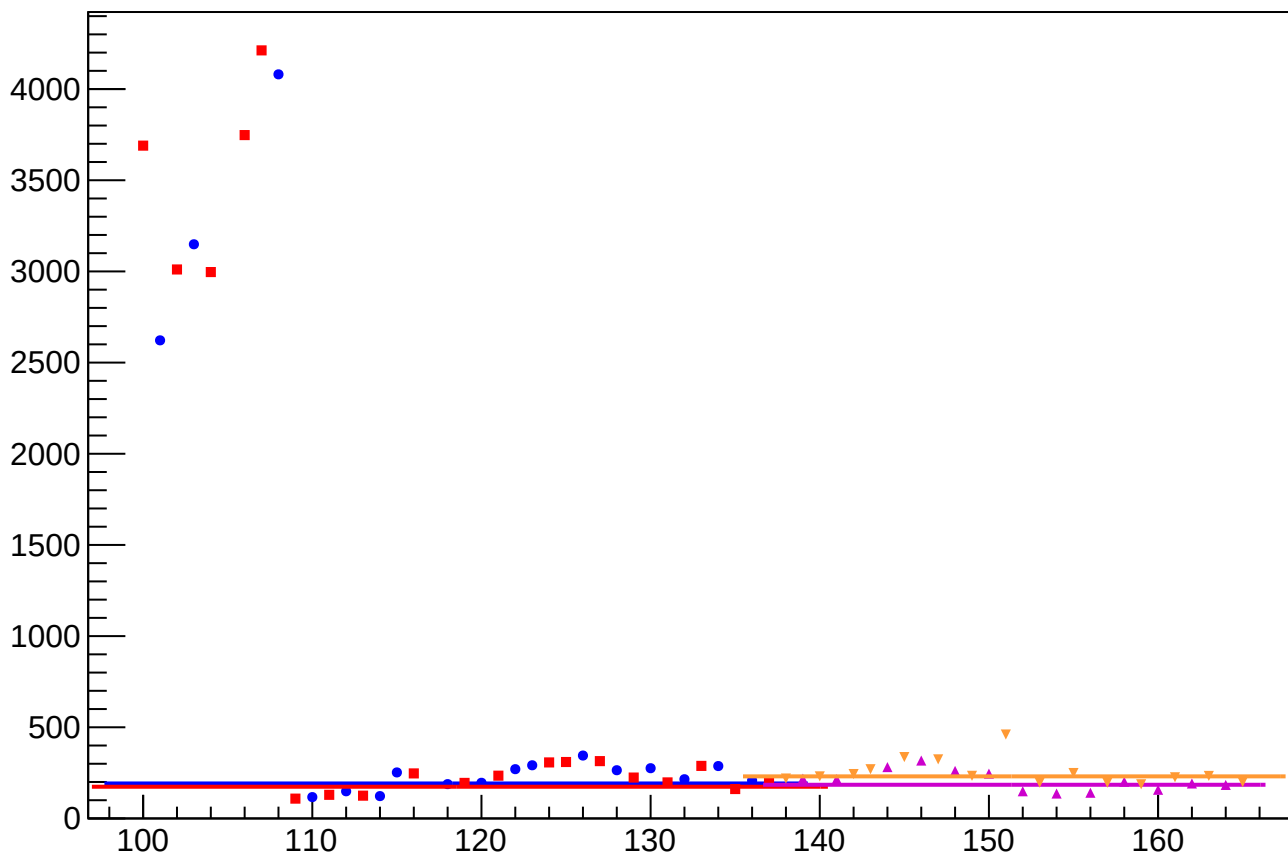
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 68.814+/-50.242 χ^2/NDF : 17.7/29

Out: 3.117+/-53.783 χ^2/NDF : 16.2/33

All: 38.199+/-36.714 χ^2/NDF : 34.6/63

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.880+/-0.062 χ^2/NDF : 3573060.2/16

Left Out: 230.806+/-0.051 χ^2/NDF : 910027.1/14

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 184.729+/-0.043 χ^2/NDF : 1240200.4/12

Left: 204.130+/-0.033 χ^2/NDF : 2627339.8/27

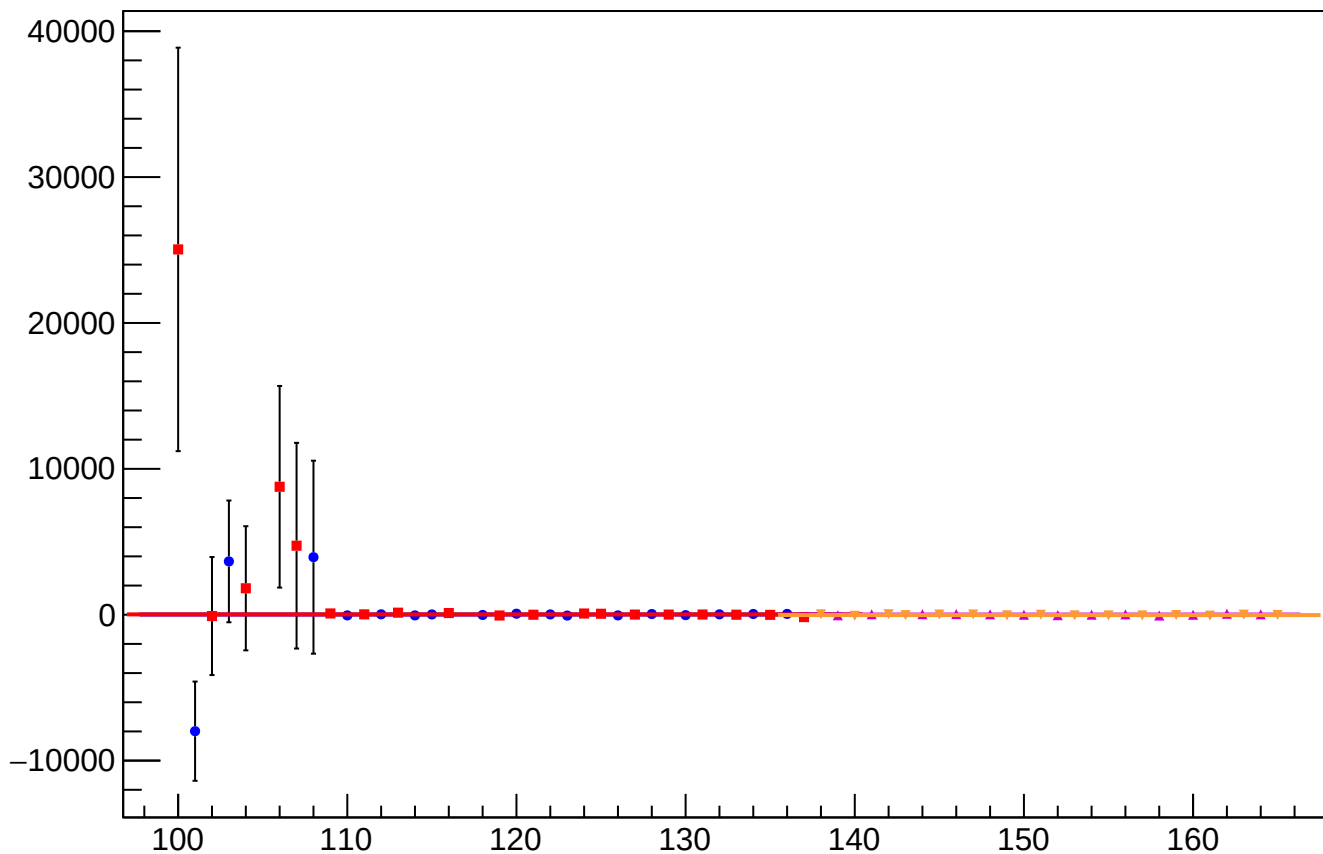
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 187.063+/-0.036 χ^2/NDF : 4822167.7/29

Out: 205.859+/-0.038 χ^2/NDF : 5672203.0/33

All: 195.822+/-0.026 χ^2/NDF : 10624805.3/63

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.121+/-13.618 χ^2/NDF : 15.2/16

Left Out: -22.299+/-9.494 χ^2/NDF : 11.0/14

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: 11.749+/-9.847 χ^2/NDF : 12.7/12

Left: -5.896+/-6.835 χ^2/NDF : 29.9/27

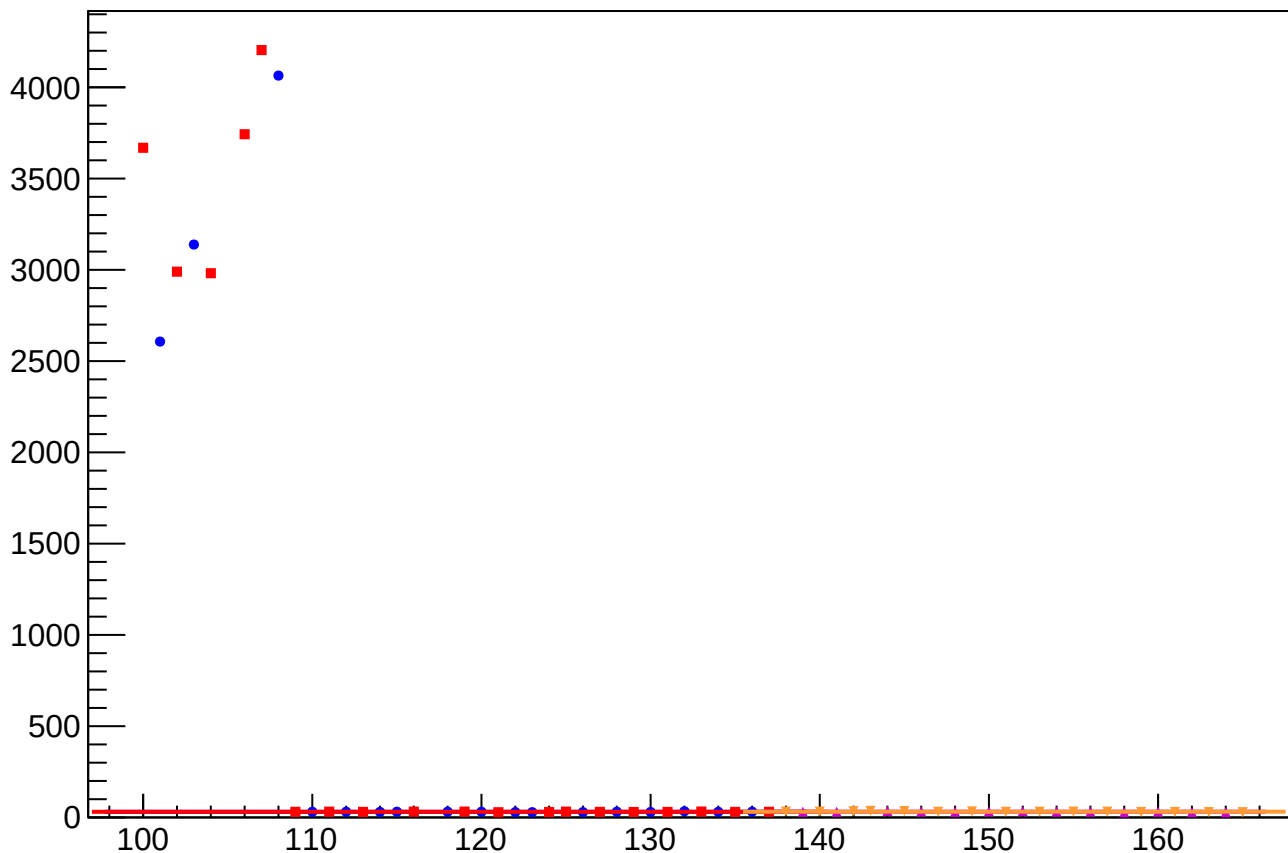
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 12.563+/-7.979 χ^2/NDF : 27.9/29

Out: -7.416+/-7.795 χ^2/NDF : 46.0/33

All: 2.340+/-5.576 χ^2/NDF : 77.1/63

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127 $\pm$ 0.010 χ^2 /NDF: 3014425.9/16

Left Out: 31.575 $\pm$ 0.007 χ^2 /NDF: 70202.1/14

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.492 $\pm$ 0.007 χ^2 /NDF: 77450.6/12

Left: 31.535 $\pm$ 0.005 χ^2 /NDF: 147727.5/27

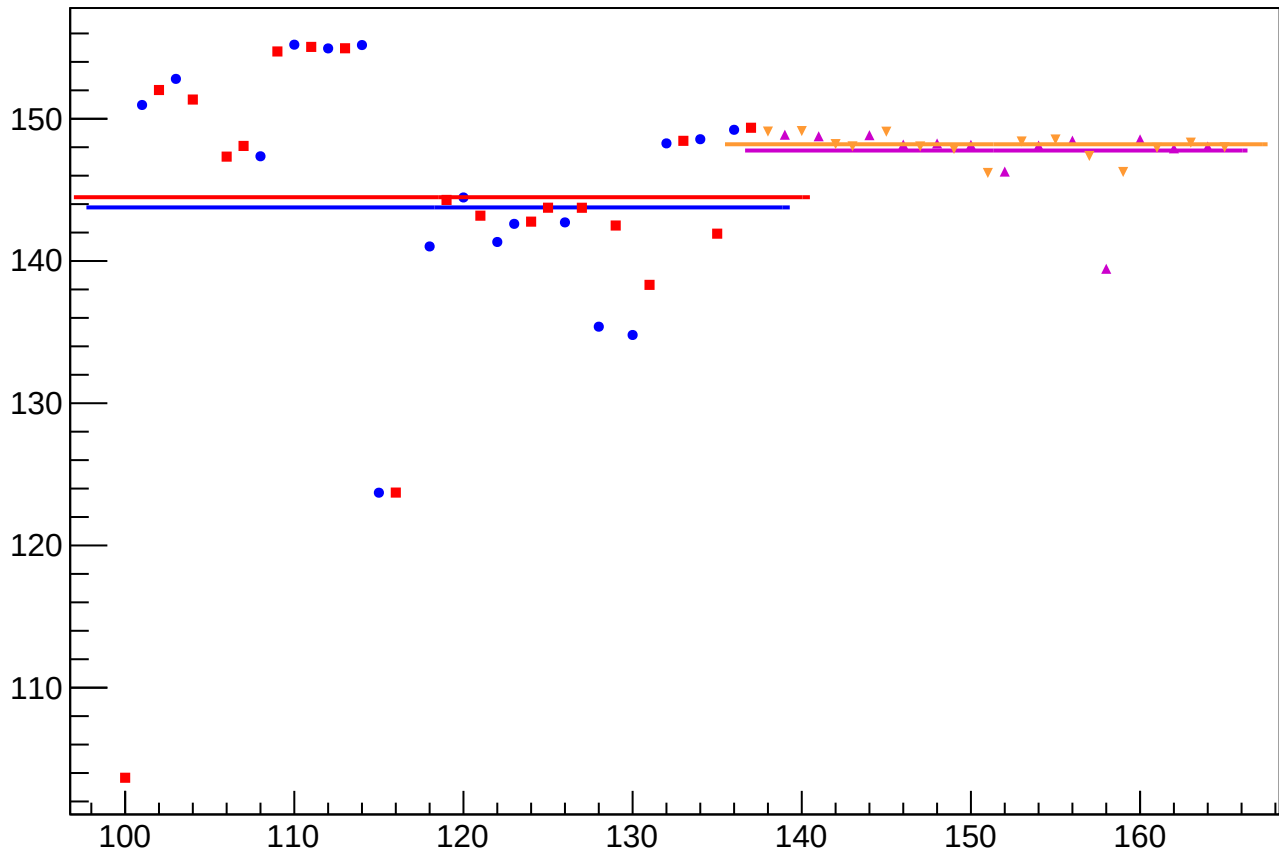
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.366 $\pm$ 0.006 χ^2 /NDF: 3092820.7/29

Out: 31.376 $\pm$ 0.006 χ^2 /NDF: 3531858.7/33

All: 31.371 $\pm$ 0.004 χ^2 /NDF: 6624680.8/63

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2/NDF : 3532173868.5/16

Left Out: 148.208 $\pm$ 0.000 χ^2/NDF : 50728601.2/14

Right Out: 144.486 $\pm$ 0.000 χ^2/NDF : 4183608291.3/18

Left In: 147.768 $\pm$ 0.000 χ^2/NDF : 320328561.5/12

Left: 147.998 $\pm$ 0.000 χ^2/NDF : 377349865.8/27

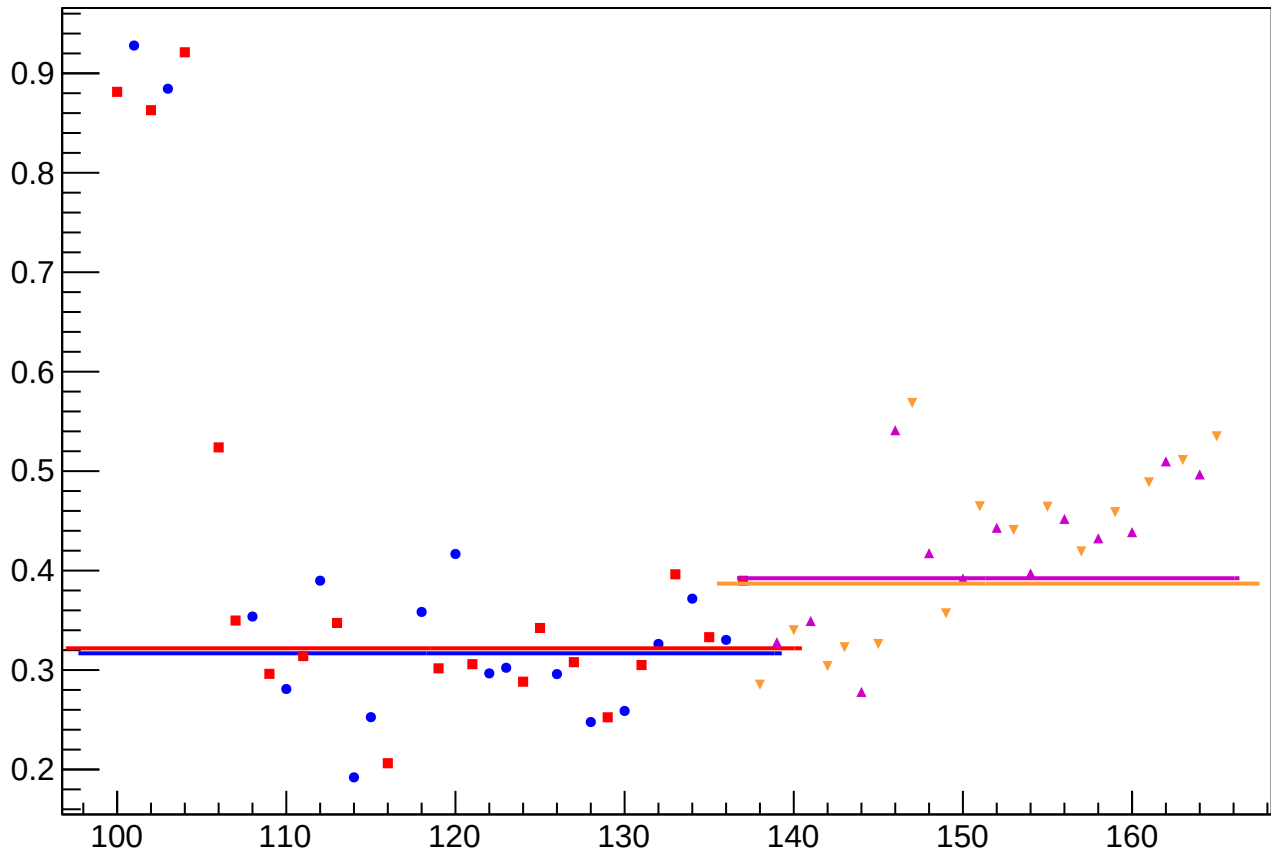
Right: 144.130 $\pm$ 0.000 χ^2/NDF : 7730221597.0/35

In: 145.879 $\pm$ 0.000 χ^2/NDF : 4322268844.1/29

Out: 146.519 $\pm$ 0.000 χ^2/NDF : 4662573647.8/33

All: 146.208 $\pm$ 0.000 χ^2/NDF : 9009681357.5

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1278613.2/16

Left Out: 0.387+/-0.000 χ^2/NDF : 929868.3/14

Right Out: 0.322+/-0.000 χ^2/NDF : 1217762.5/18

Left In: 0.392+/-0.000 χ^2/NDF : 689371.5/12

Left: 0.389+/-0.000 χ^2/NDF : 1621136.9/27

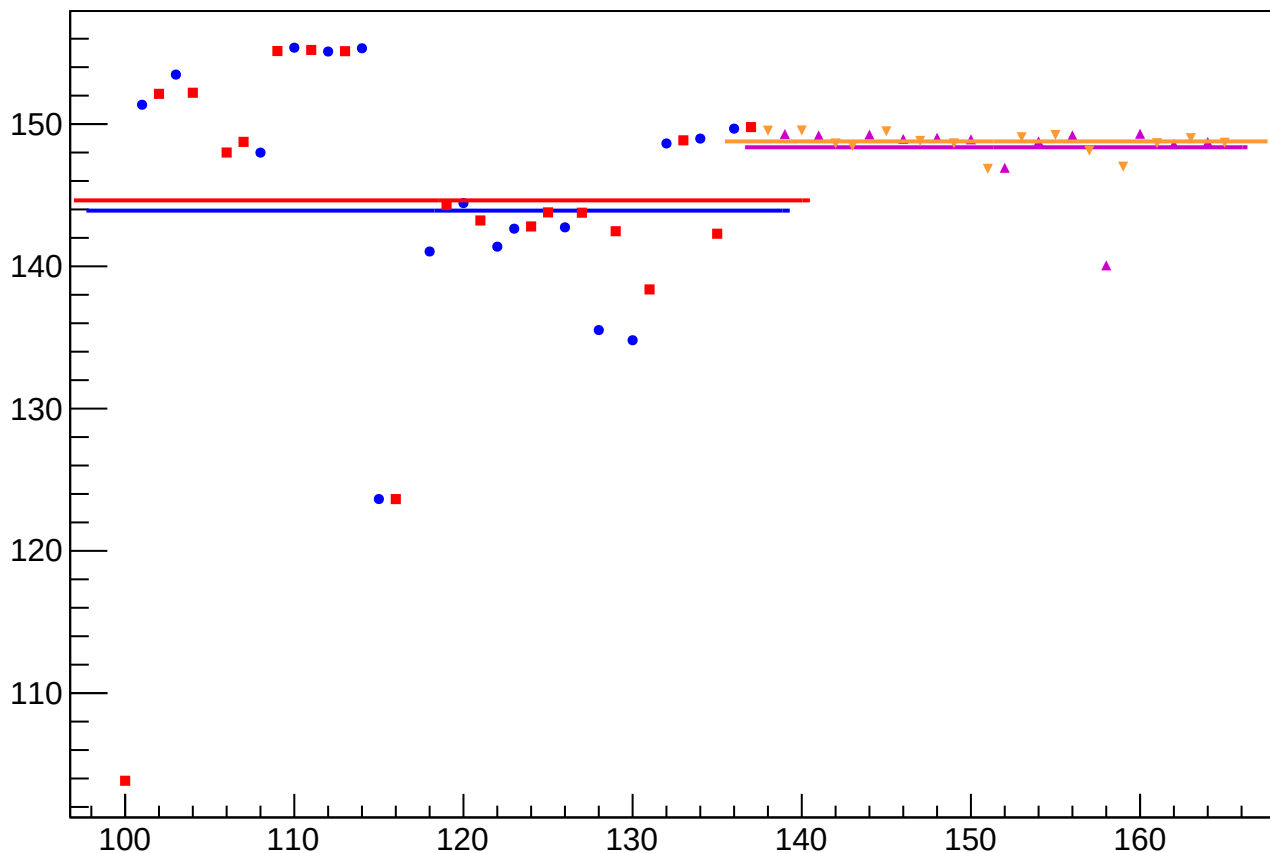
Right: 0.319+/-0.000 χ^2/NDF : 2497805.1/35

In: 0.357+/-0.000 χ^2/NDF : 2302522.3/29

Out: 0.357+/-0.000 χ^2/NDF : 2408978.3/33

All: 0.357+/-0.000 χ^2/NDF : 4711567.7/63

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917+/-0.000

χ^2/NDF : 3584662767.5/16

Left Out: 148.781+/-0.000

χ^2/NDF : 39868312.4/14

Right Out: 144.637+/-0.000

χ^2/NDF : 4210524953.9/18

Left In: 148.369+/-0.000

χ^2/NDF : 309906001.5/12

Left: 148.585+/-0.000

χ^2/NDF : 355171639.1/27

Right: 144.280+/-0.000

χ^2/NDF : 7809567994.8/35

In: 146.256+/-0.000

χ^2/NDF : 4467727010.3/29

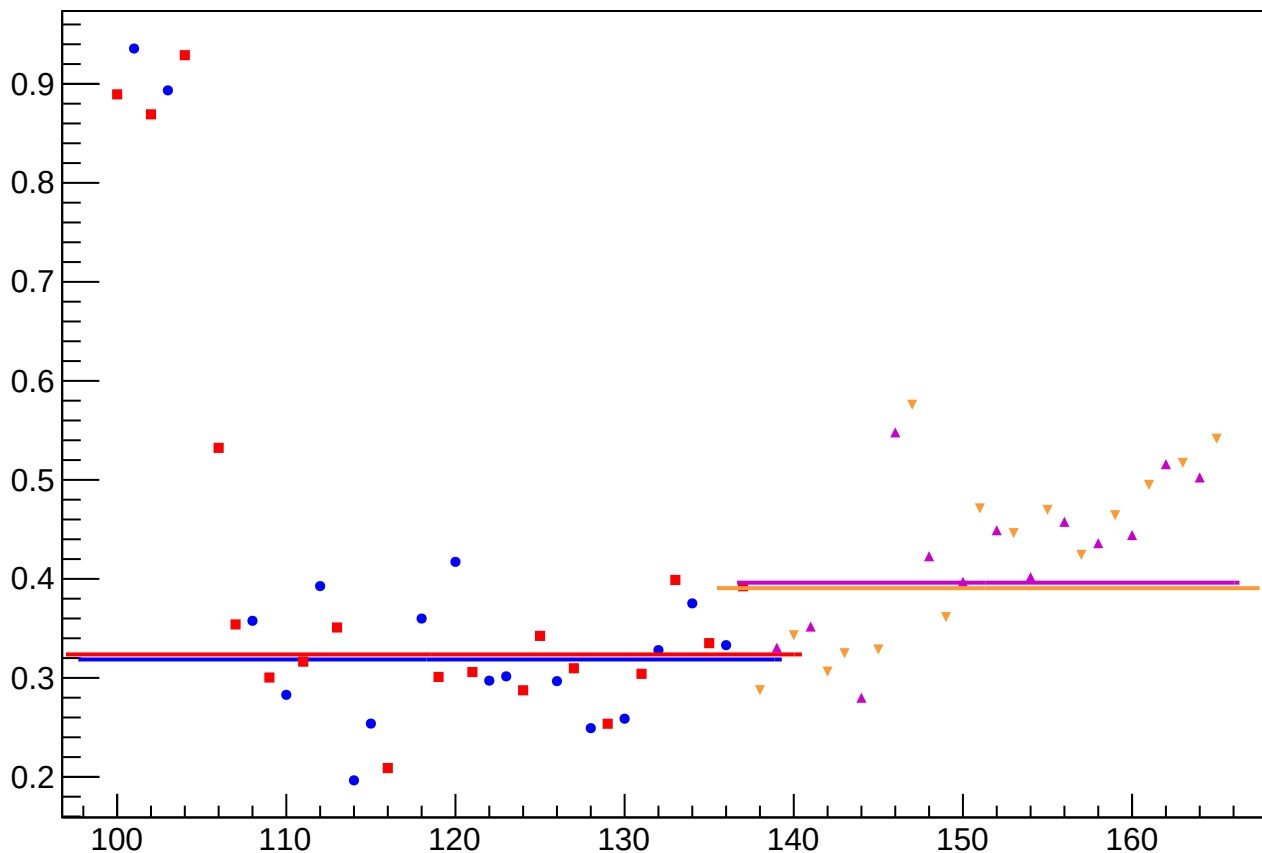
Out: 146.892+/-0.000

χ^2/NDF : 4773068073.8/33

All: 146.583+/-0.000

χ^2/NDF : 9264911193.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.391+/-0.000 χ^2/NDF : 947211.0/14

Right Out: 0.324+/-0.000 χ^2/NDF : 1220898.3/18

Left In: 0.396+/-0.000 χ^2/NDF : 703991.8/12

Left: 0.393+/-0.000 χ^2/NDF : 1653164.8/27

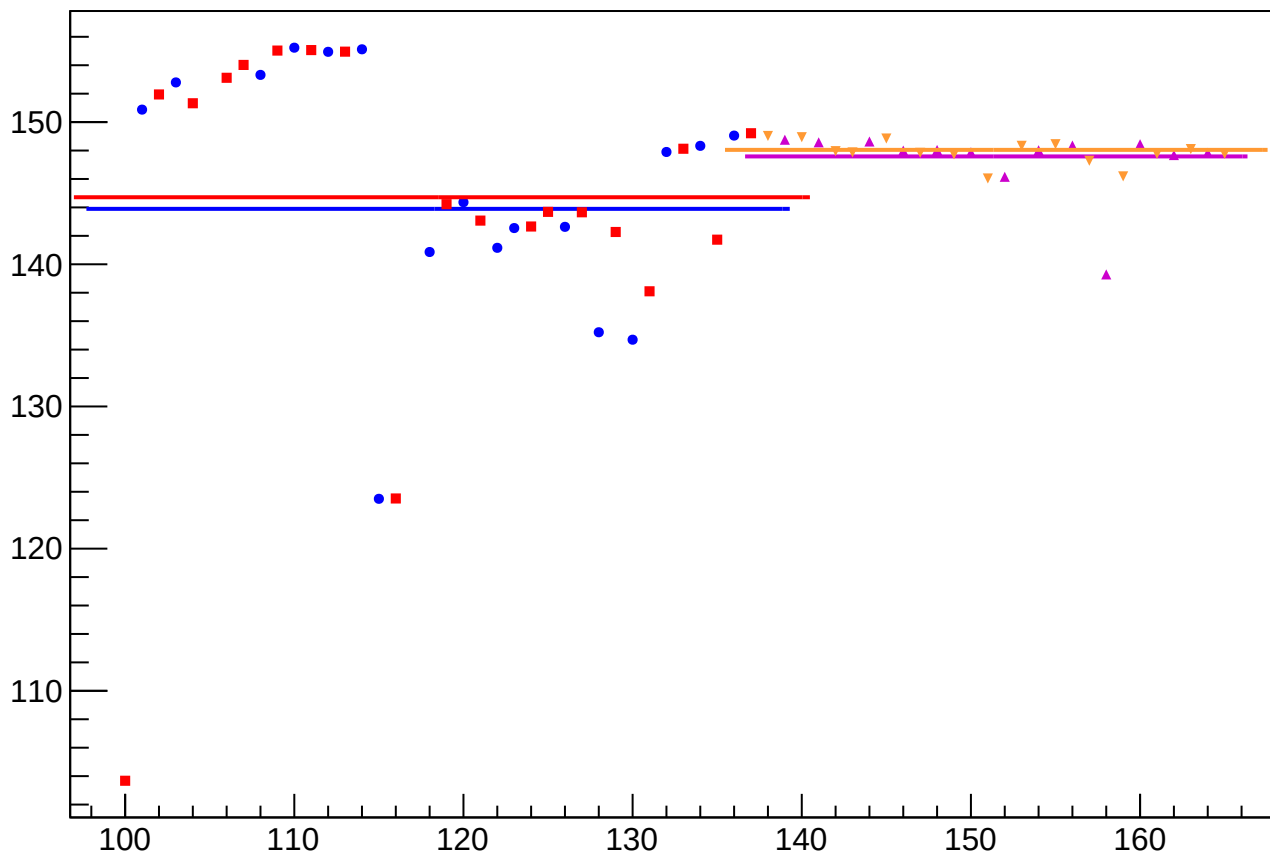
Right: 0.321+/-0.000 χ^2/NDF : 2503090.8/35

In: 0.359+/-0.000 χ^2/NDF : 2332763.7/29

Out: 0.360+/-0.000 χ^2/NDF : 2440772.3/33

All: 0.360+/-0.000 χ^2/NDF : 4773606.0/63

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 148.047 $\pm$ 0.000 χ^2 /NDF: 49108878.9/14

Right Out: 144.715 $\pm$ 0.000 χ^2 /NDF: 4474458988.7/18

Left In: 147.586 $\pm$ 0.000 χ^2 /NDF: 318914410.4/12

Left: 147.827 $\pm$ 0.000 χ^2 /NDF: 374891492.8/27

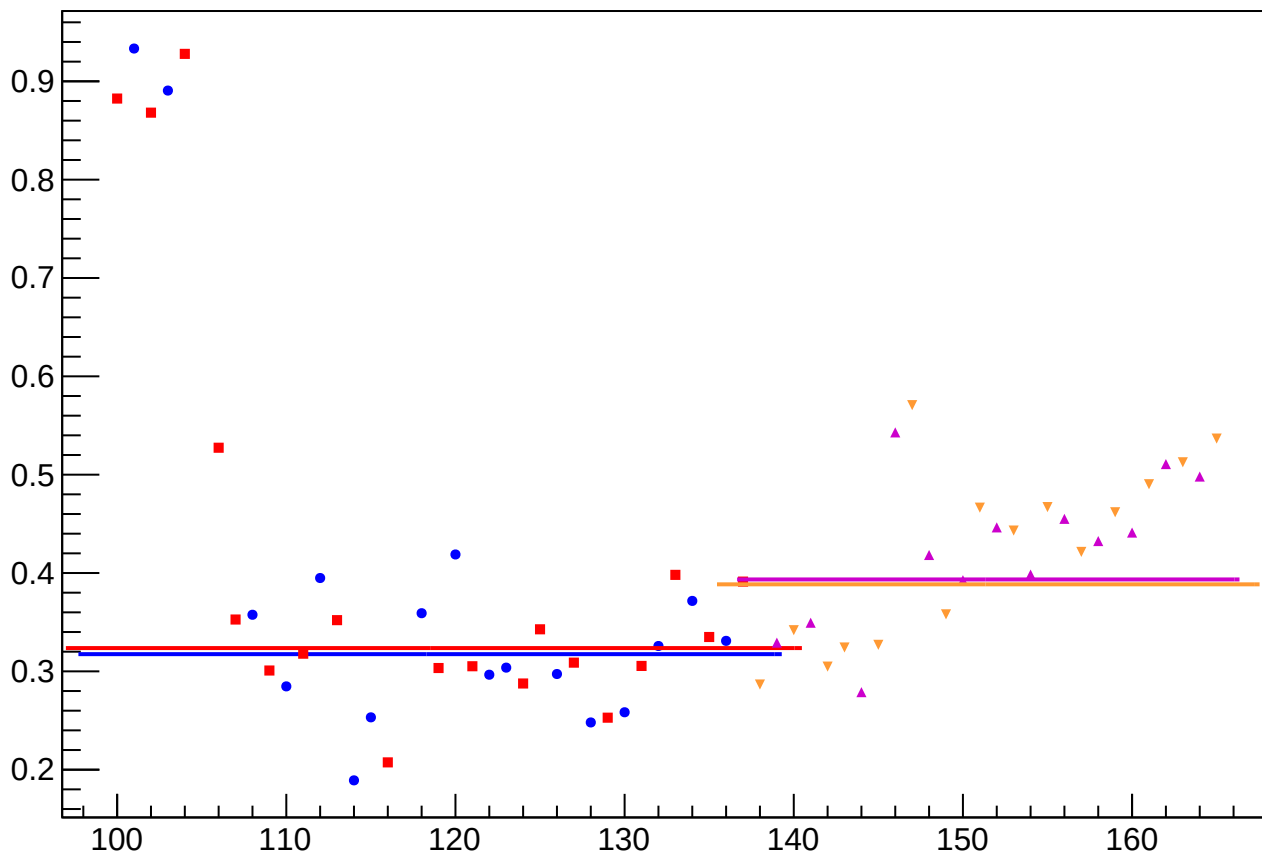
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 145.844 $\pm$ 0.000 χ^2 /NDF: 4465707717.0/29

Out: 146.538 $\pm$ 0.000 χ^2 /NDF: 4863411893.2/33

All: 146.200 $\pm$ 0.000 χ^2 /NDF: 9358022337.6

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.388+/-0.000 χ^2/NDF : 931201.7/14

Right Out: 0.324+/-0.000 χ^2/NDF : 1221676.7/18

Left In: 0.393+/-0.000 χ^2/NDF : 692585.9/12

Left: 0.391+/-0.000 χ^2/NDF : 1625381.2/27

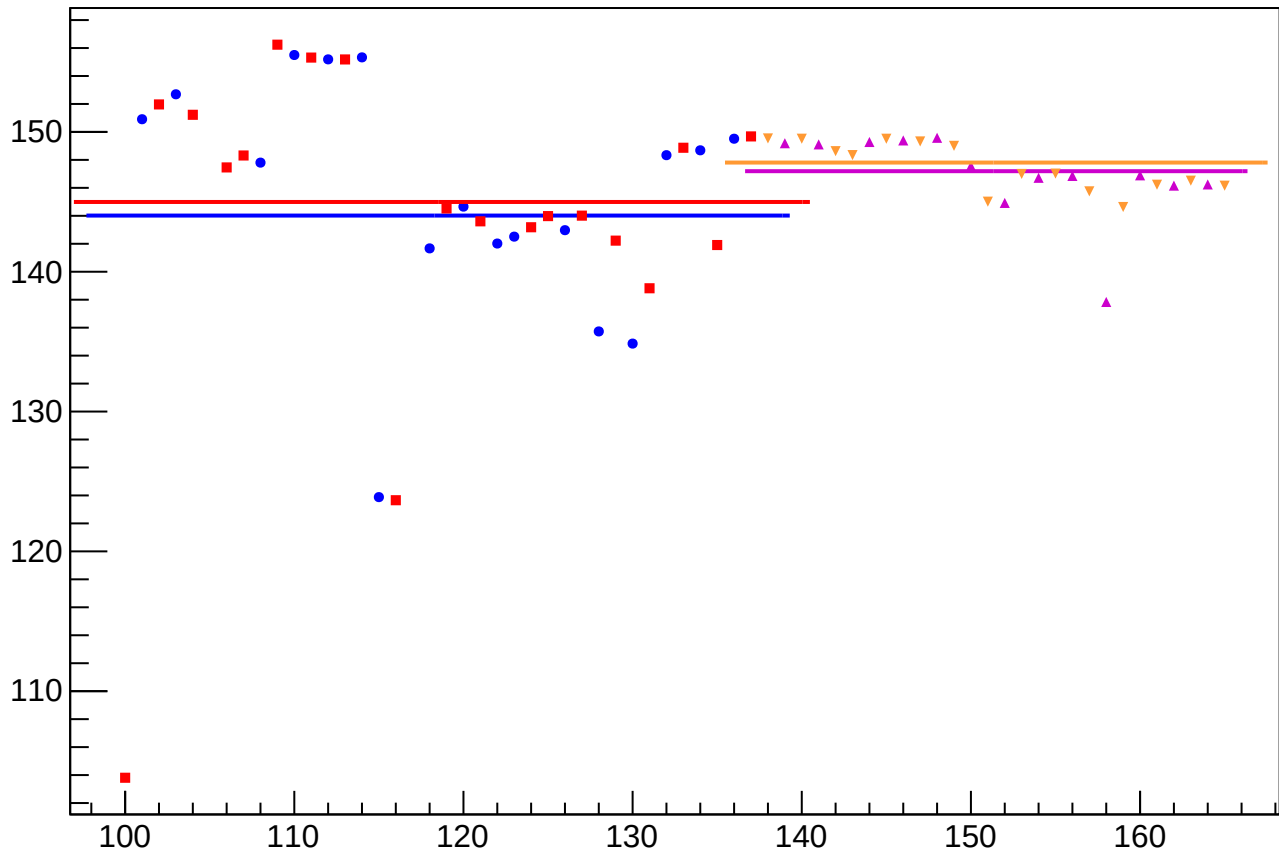
Right: 0.321+/-0.000 χ^2/NDF : 2516974.9/35

In: 0.358+/-0.000 χ^2/NDF : 2322641.8/29

Out: 0.359+/-0.000 χ^2/NDF : 2410070.0/33

All: 0.358+/-0.000 χ^2/NDF : 4732998.6/63

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 ± 0.000 $\chi^2/\text{NDF}: 3238525527.6/16$

Left Out: 147.810 ± 0.000 $\chi^2/\text{NDF}: 176595625.1/14$

Right Out: 144.990 ± 0.000 $\chi^2/\text{NDF}: 3853449012.9/18$

Left In: 147.192 ± 0.000 $\chi^2/\text{NDF}: 484285130.6/12$

Left: 147.515 ± 0.000 $\chi^2/\text{NDF}: 672266962.7/27$

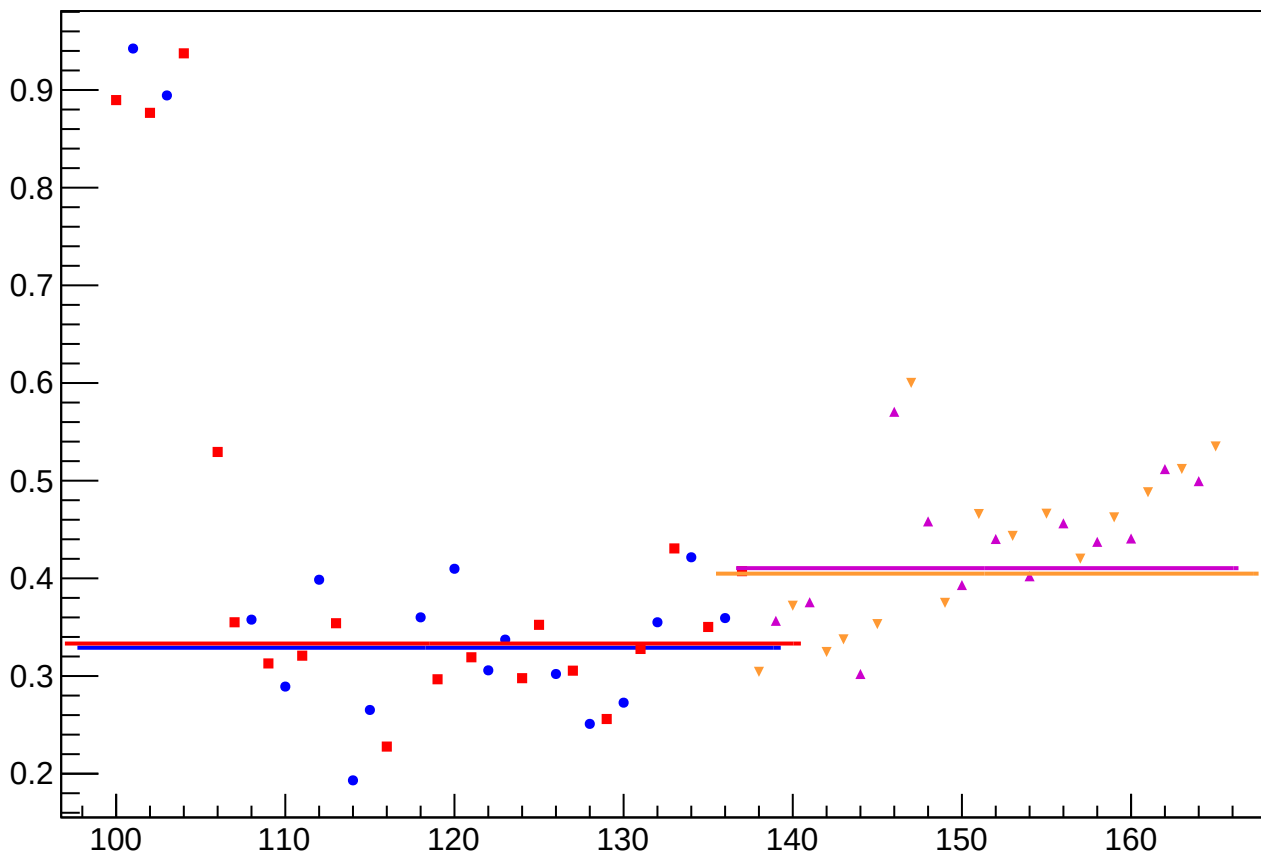
Right: 144.510 ± 0.000 $\chi^2/\text{NDF}: 7116582298.0/35$

In: 145.689 ± 0.000 $\chi^2/\text{NDF}: 3995503160.0/29$

Out: 146.520 ± 0.000 $\chi^2/\text{NDF}: 4257446696.4/33$

All: 146.117 ± 0.000 $\chi^2/\text{NDF}: 8291519523.2$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2 /NDF: 1276118.3/16

Left Out: 0.405 $\pm$ 0.000 χ^2 /NDF: 728311.9/14

Right Out: 0.333 $\pm$ 0.000 χ^2 /NDF: 1182496.7/18

Left In: 0.410 $\pm$ 0.000 χ^2 /NDF: 530417.7/12

Left: 0.408 $\pm$ 0.000 χ^2 /NDF: 1260609.4/27

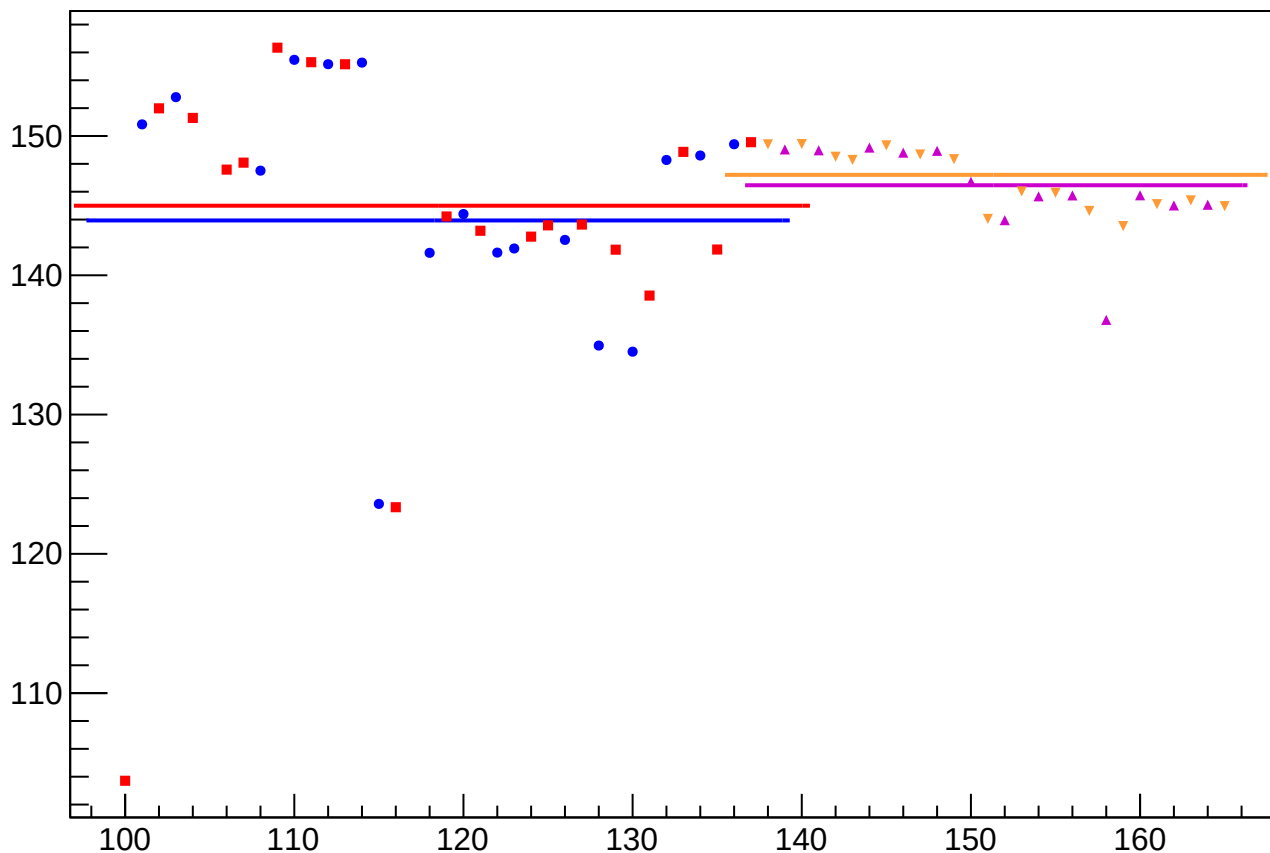
Right: 0.331 $\pm$ 0.000 χ^2 /NDF: 2459580.1/35

In: 0.372 $\pm$ 0.000 χ^2 /NDF: 2165849.3/29

Out: 0.372 $\pm$ 0.000 χ^2 /NDF: 2203823.8/33

All: 0.372 $\pm$ 0.000 χ^2 /NDF: 4369679.0/63

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 $\pm$ 0.000 χ^2 /NDF: 3379203532.9/16

Left Out: 147.211 $\pm$ 0.000 χ^2 /NDF: 270091618.4/14

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3934069043.2/18

Left In: 146.464 $\pm$ 0.000 χ^2 /NDF: 593448442.4/12

Left: 146.855 $\pm$ 0.000 χ^2 /NDF: 880105623.4/27

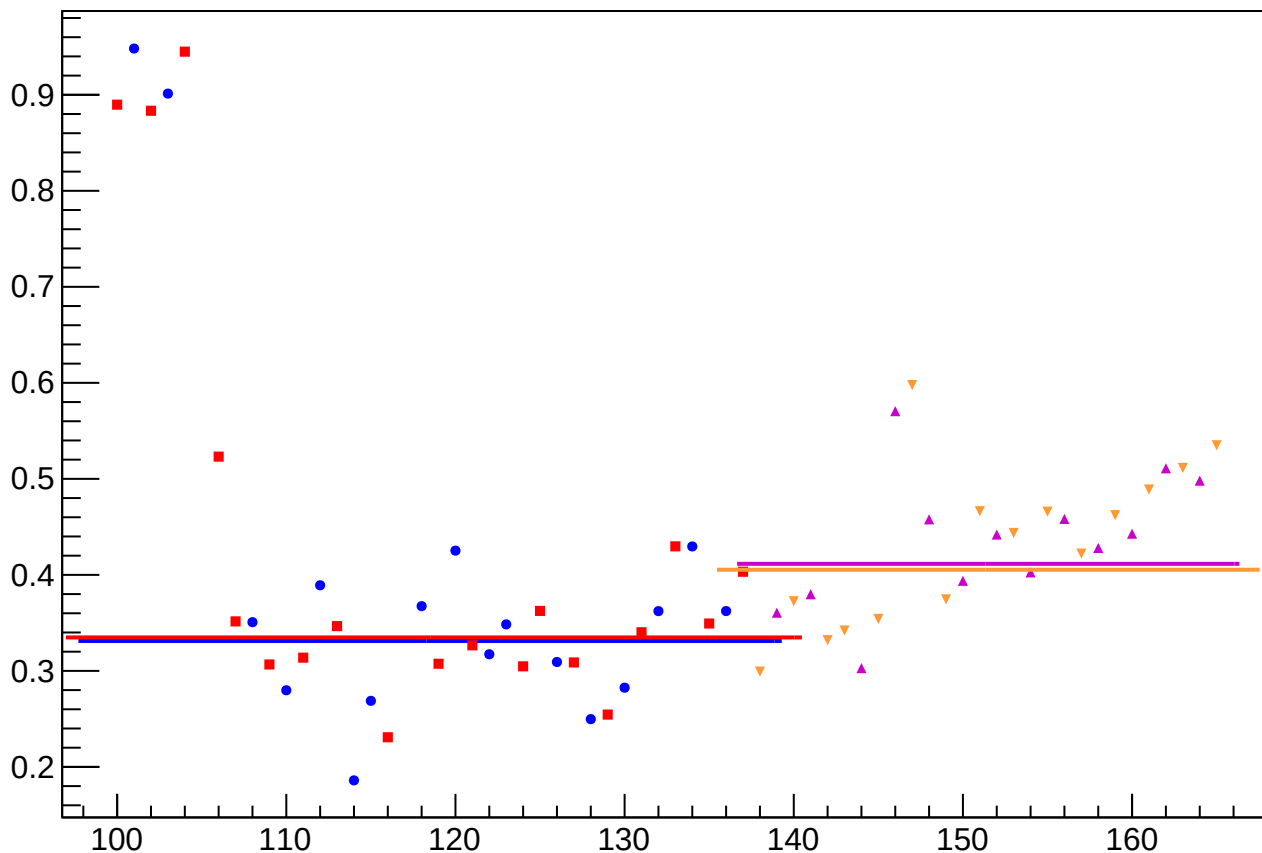
Right: 144.474 $\pm$ 0.000 χ^2 /NDF: 7341982360.6/35

In: 145.275 $\pm$ 0.000 χ^2 /NDF: 4143427336.7/29

Out: 146.201 $\pm$ 0.000 χ^2 /NDF: 4343539706.5/33

All: 145.753 $\pm$ 0.000 χ^2 /NDF: 8534508666.4

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.405+/-0.000 χ^2/NDF : 726340.3/14

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.412+/-0.000 χ^2/NDF : 512986.7/12

Left: 0.408+/-0.000 χ^2/NDF : 1241594.3/27

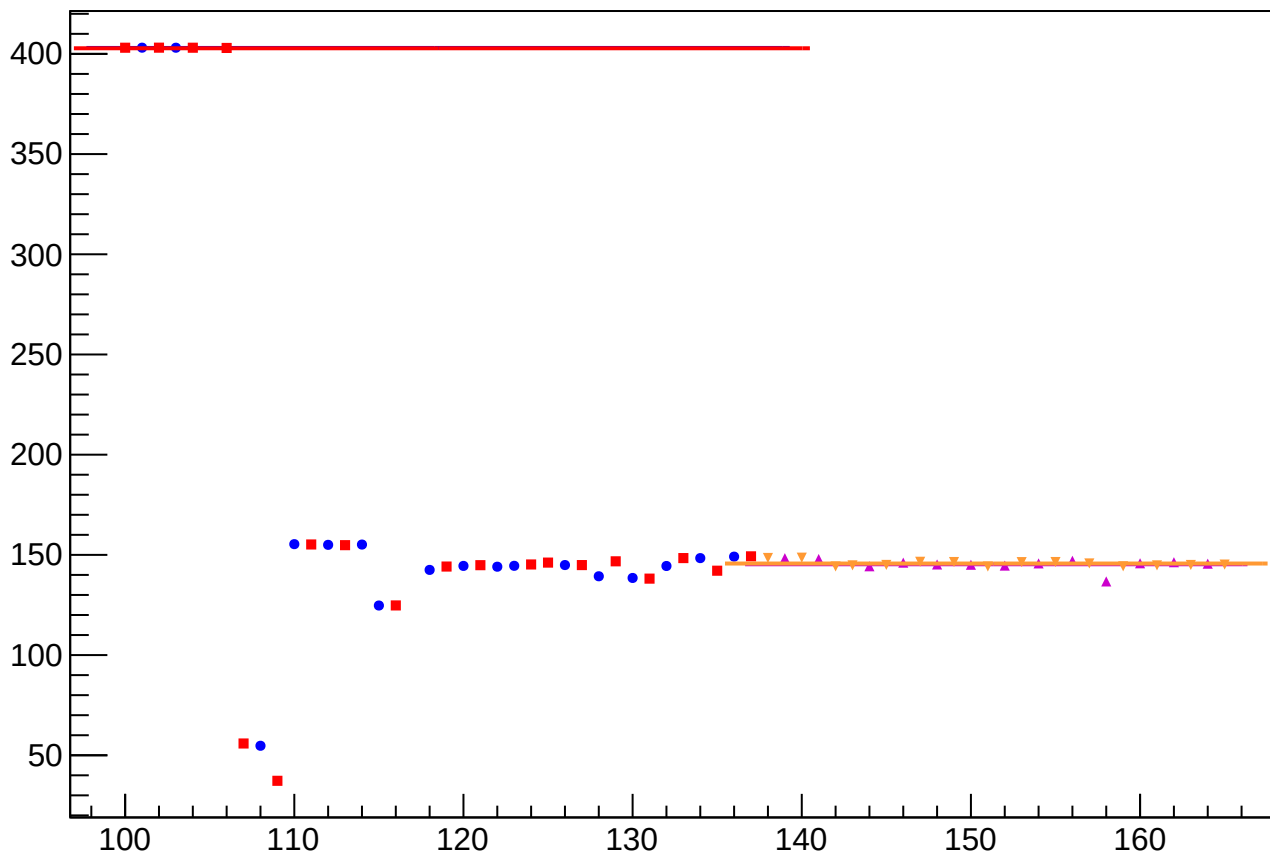
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.374+/-0.000 χ^2/NDF : 2153926.9/29

Out: 0.373+/-0.000 χ^2/NDF : 2180818.5/33

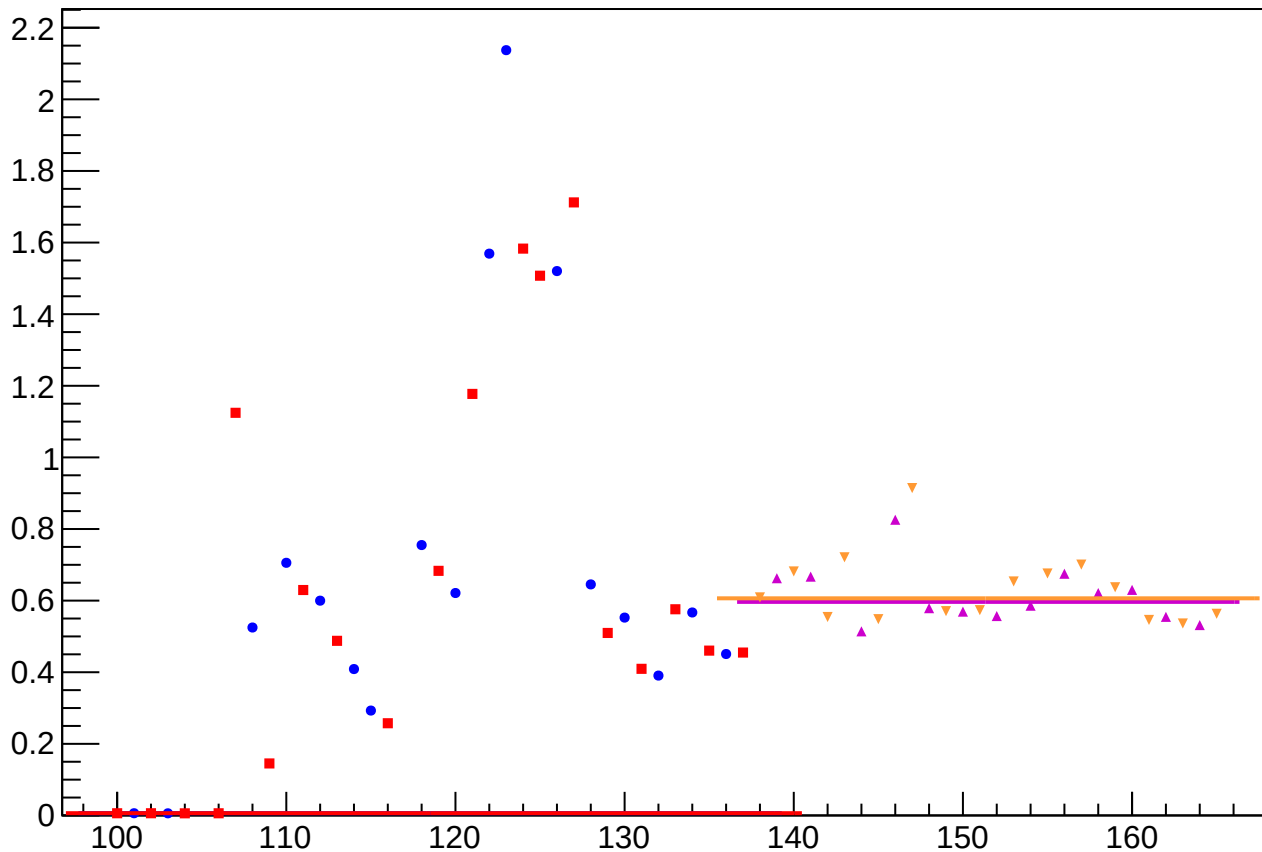
All: 0.373+/-0.000 χ^2/NDF : 4334771.7/63

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1096710296821.6/16	Left: 145.503+/-0.000	χ^2/NDF : 171016801.0/27
Left Out: 145.682+/-0.000	χ^2/NDF : 40535467.6/14	Right: 402.873+/-0.000	χ^2/NDF : 4201017642924.7/16
Right Out: 402.799+/-0.000	χ^2/NDF : 3103890772575.4/18	In: 402.791+/-0.000	χ^2/NDF : 2427504602386.5/29
Left In: 145.314+/-0.000	χ^2/NDF : 129088157.7/12	Out: 402.645+/-0.000	χ^2/NDF : 4499855471657.2/30
		All: 402.713+/-0.000	χ^2/NDF : 692771705407.0/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.606+/-0.000 χ^2/NDF : 255212.4/14

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.596+/-0.000 χ^2/NDF : 187499.5/12

Left: 0.602+/-0.000 χ^2/NDF : 444747.7/27

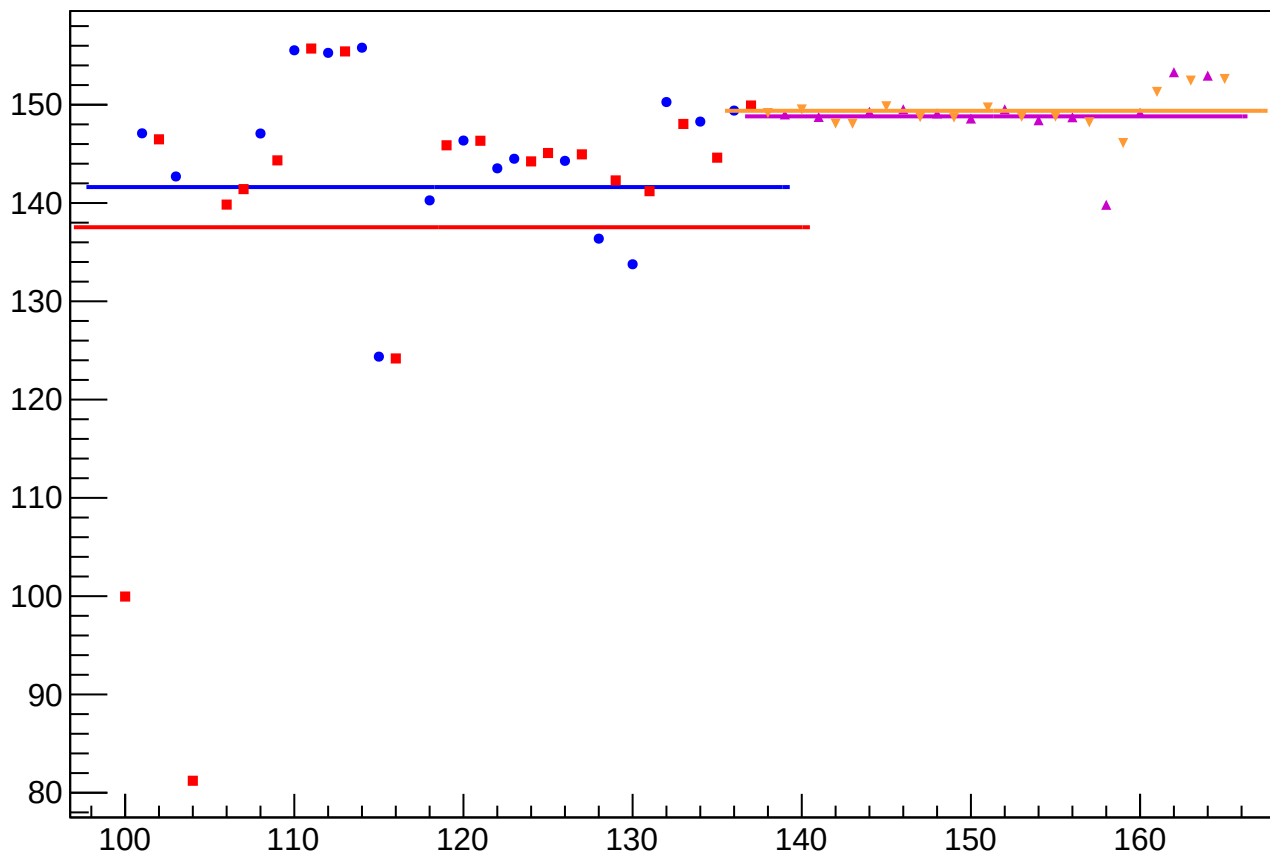
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 23311559.5/29

Out: 0.007+/-0.000 χ^2/NDF : 24675980.1/33

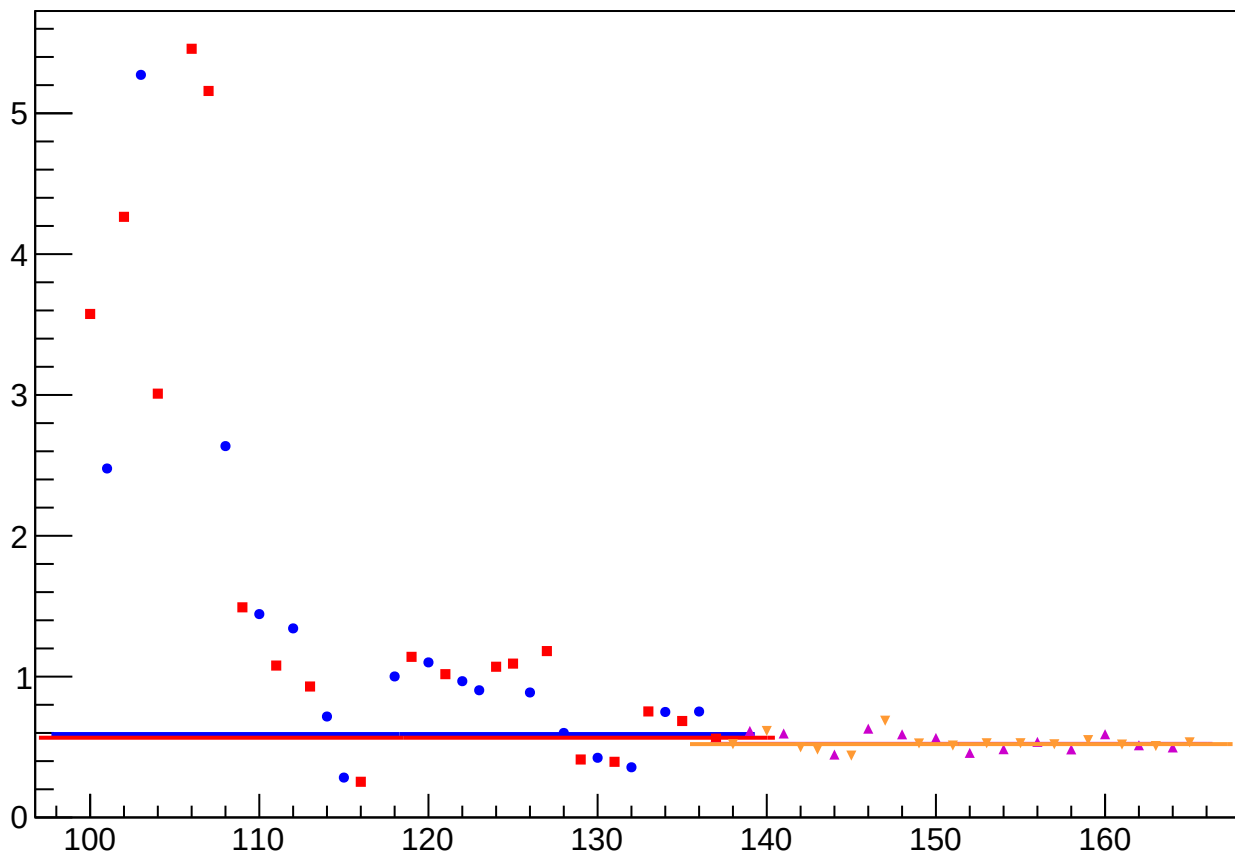
All: 0.007+/-0.000 χ^2/NDF : 47987572.9/63

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622+/-0.000	χ^2/NDF : 982037737.7/16	Left: 149.111+/-0.000	χ^2/NDF : 461870184.4/27
Left Out: 149.383+/-0.000	χ^2/NDF : 102598823.6/14	Right: 139.530+/-0.000	χ^2/NDF : 2384319562.8/35
Right Out: 137.536+/-0.000	χ^2/NDF : 1315768553.6/18	In: 147.130+/-0.000	χ^2/NDF : 1736769601.4/29
Left In: 148.816+/-0.000	χ^2/NDF : 353728346.3/12	Out: 146.679+/-0.000	χ^2/NDF : 2568744327.6/33
		All: 146.896+/-0.000	χ^2/NDF : 4310077760.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.521 $\pm$ 0.000 χ^2 /NDF:169961.0/14

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4682140.9/18

Left In: 0.523 $\pm$ 0.000 χ^2 /NDF:225165.0/12

Left: 0.522 $\pm$ 0.000 χ^2 /NDF: 395232.4/27

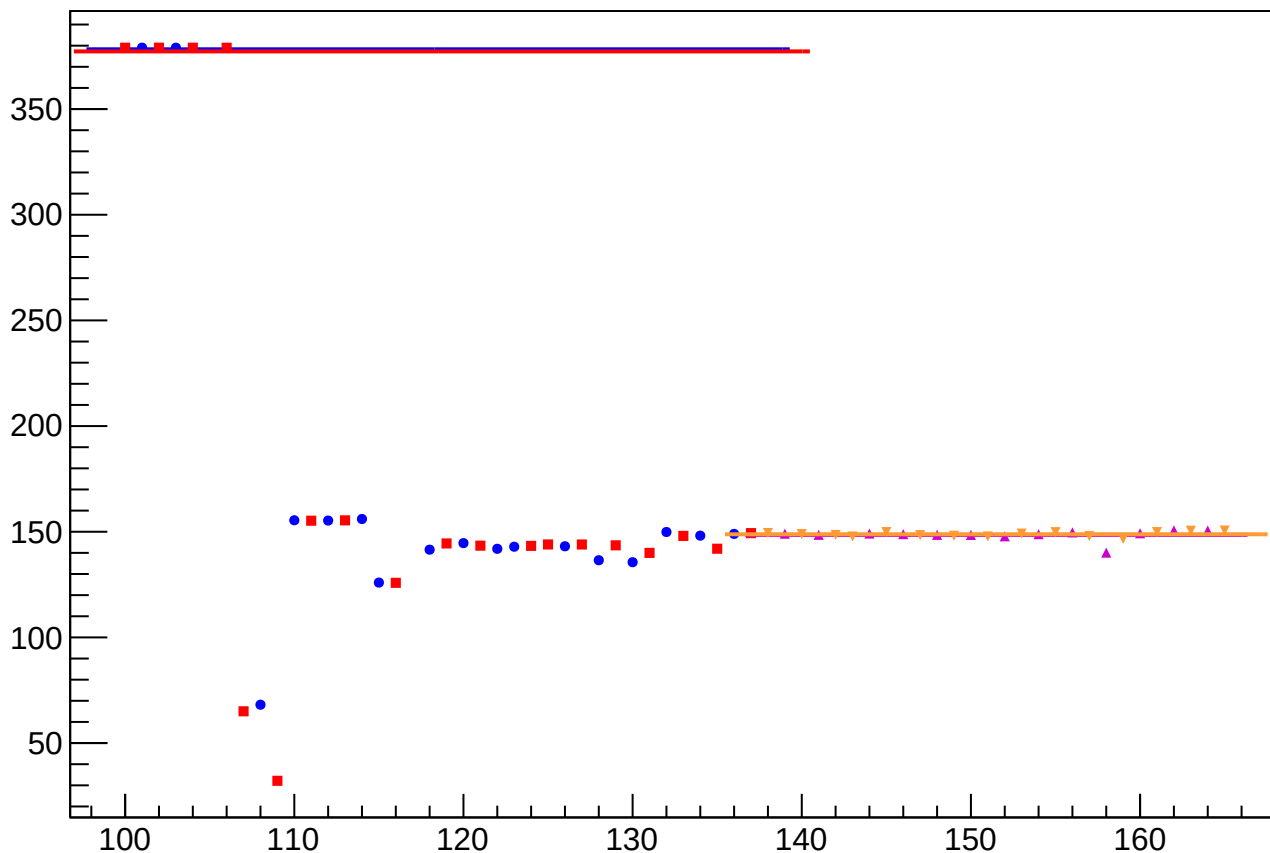
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.539 $\pm$ 0.000 χ^2 /NDF:3821986.4/29

Out: 0.531 $\pm$ 0.000 χ^2 /NDF:4885812.7/33

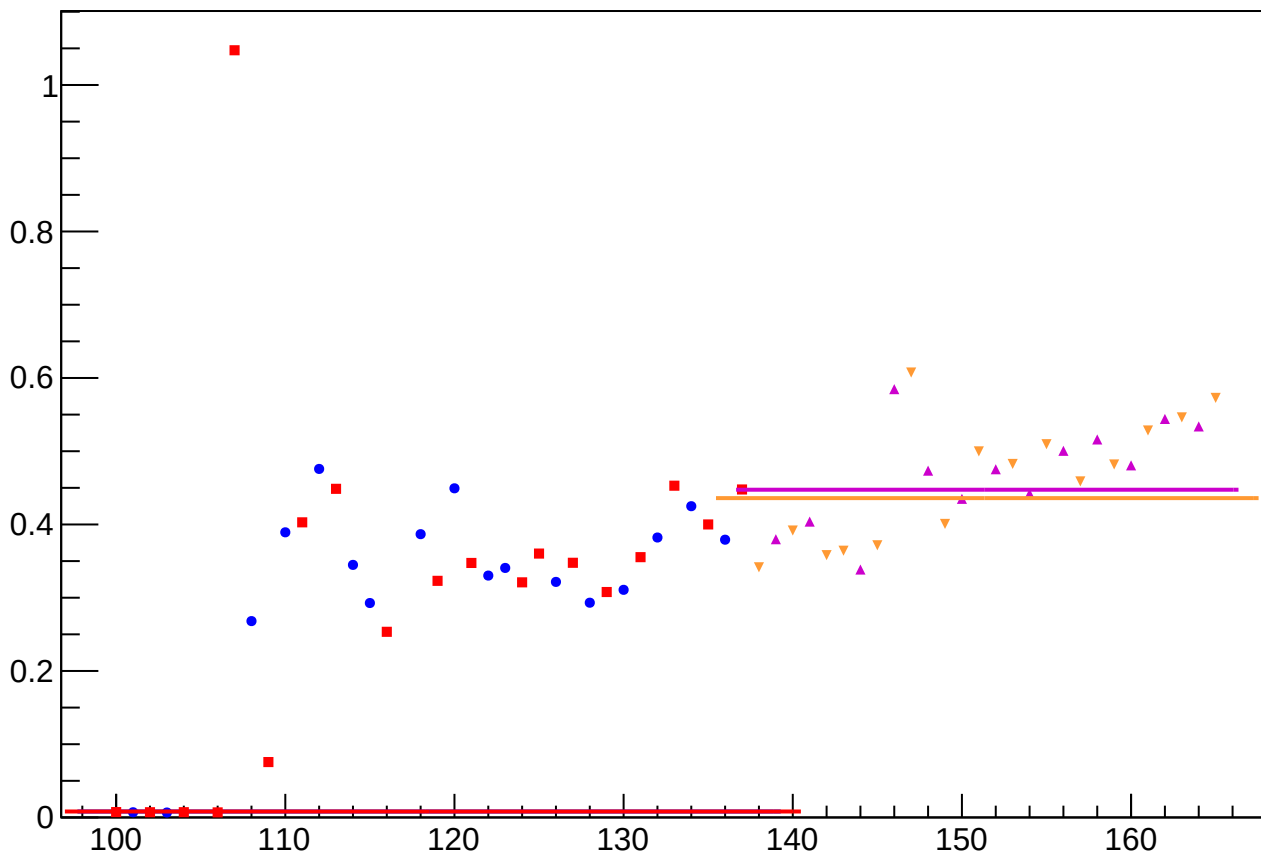
All: 0.535 $\pm$ 0.000 χ^2 /NDF: 8710476.6/63

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.652+/-0.000	χ^2/NDF : 292244729.2/27
Left Out: 148.792+/-0.000	χ^2/NDF : 57420674.0/14	Right: 377.753+/-0.000	χ^2/NDF : 10798714881373.1
Right Out: 377.289+/-0.000	χ^2/NDF : 8279468194444.1/18	In: 377.446+/-0.000	χ^2/NDF : 5069835725938.1/29
Left In: 148.494+/-0.000	χ^2/NDF : 232531525.3/12	Out: 376.470+/-0.000	χ^2/NDF : 11120463966660.7
		All: 376.926+/-0.000	χ^2/NDF : 161970739783.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.436 $\pm$ 0.000 χ^2 /NDF:654233.0/14

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.447 $\pm$ 0.000 χ^2 /NDF:463200.2/12

Left: 0.441 $\pm$ 0.000 χ^2 /NDF: 1124197.5/27

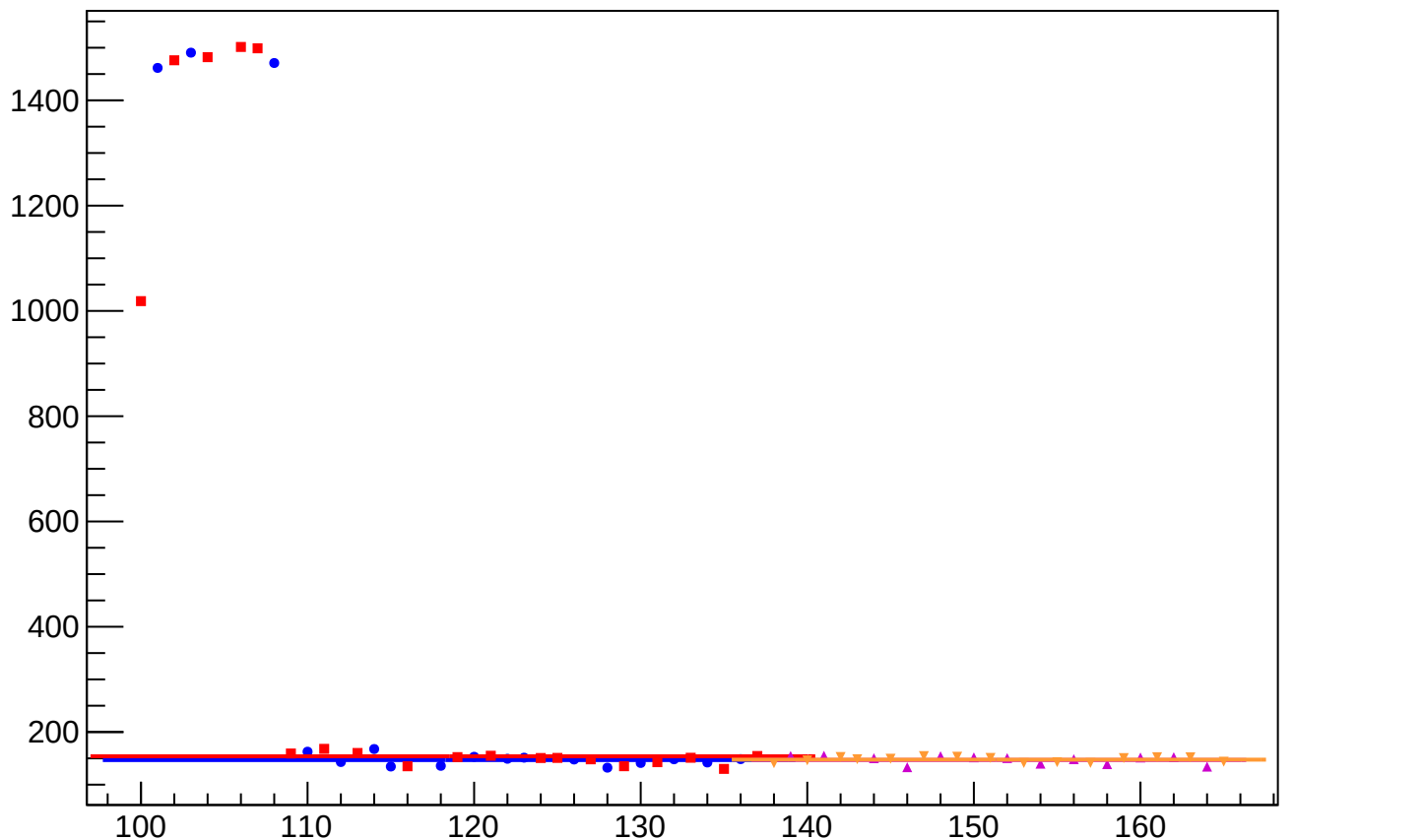
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:29043692.2/29

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:30108802.6/33

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 59152523.6/63

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 147.500+/-0.000 χ^2/NDF : 252891991.0/14

Right Out: 153.887+/-0.000 χ^2/NDF : 33738118250.9/18

Left In: 146.887+/-0.000 χ^2/NDF : 590328939.9/12

Left: 147.207+/-0.000 χ^2/NDF : 845263272.4/27

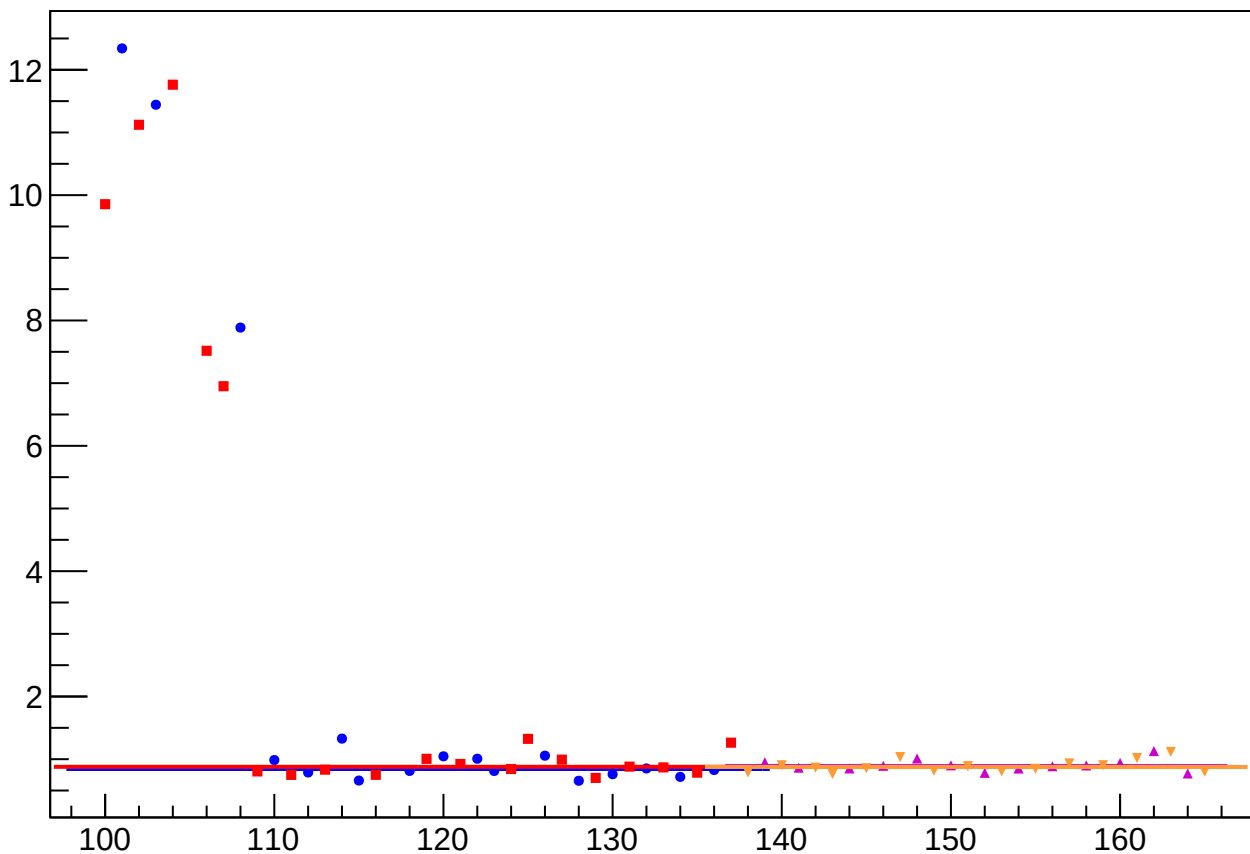
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 146.832+/-0.000 χ^2/NDF : 24941295294.0/29

Out: 149.524+/-0.000 χ^2/NDF : 34138463887.5/33

All: 148.216+/-0.000 χ^2/NDF : 59138556390.0/69

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844 ± 0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.876 ± 0.000 χ^2/NDF : 185925.7/14

Right Out: 0.878 ± 0.000 χ^2/NDF : 2812500.6/18

Left In: 0.890 ± 0.000 χ^2/NDF : 141538.3/12

Left: 0.882 ± 0.000 χ^2/NDF : 329550.3/27

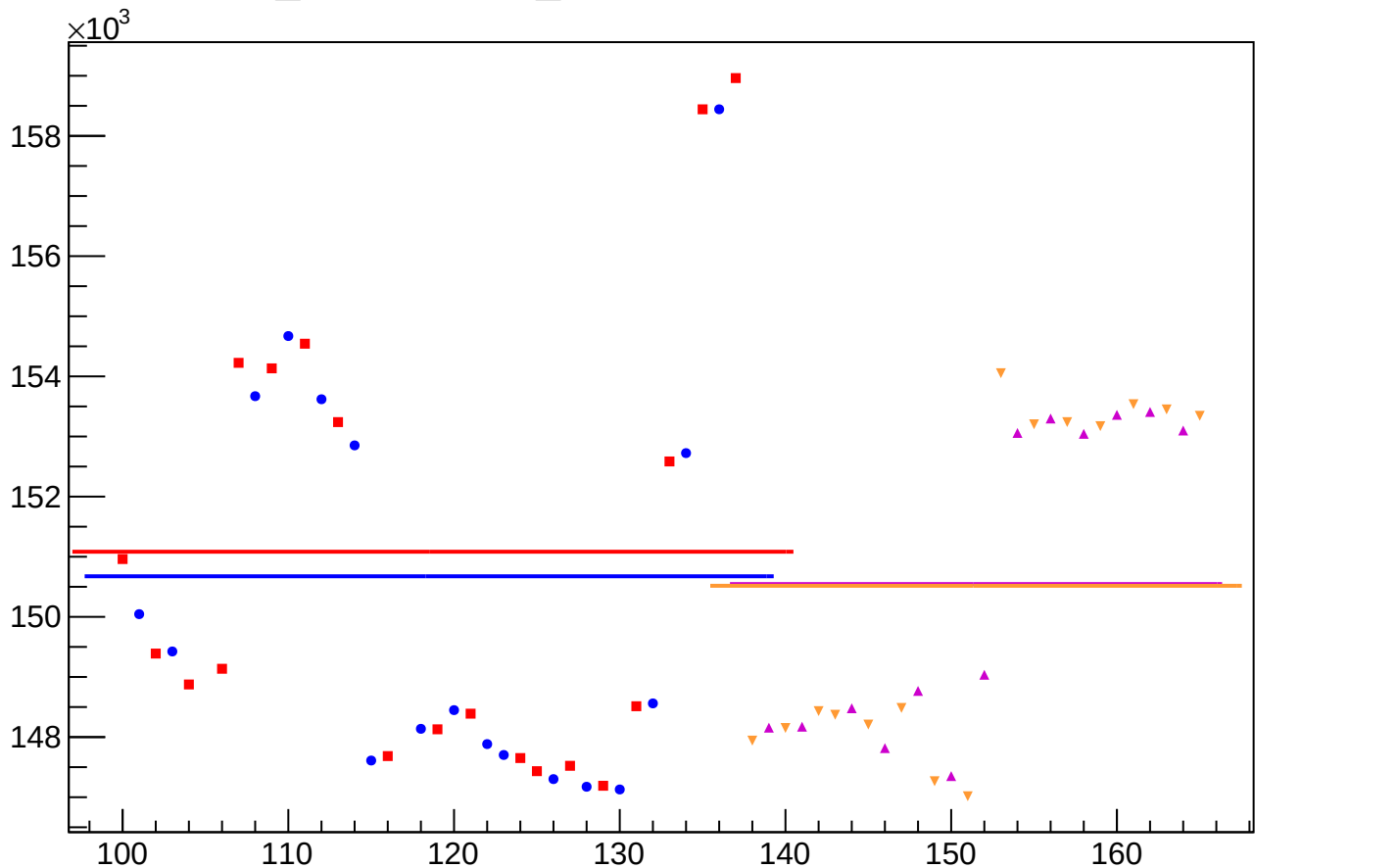
Right: 0.861 ± 0.000 χ^2/NDF : 5489376.5/35

In: 0.874 ± 0.000 χ^2/NDF : 2827038.8/29

Out: 0.877 ± 0.000 χ^2/NDF : 2998469.2/33

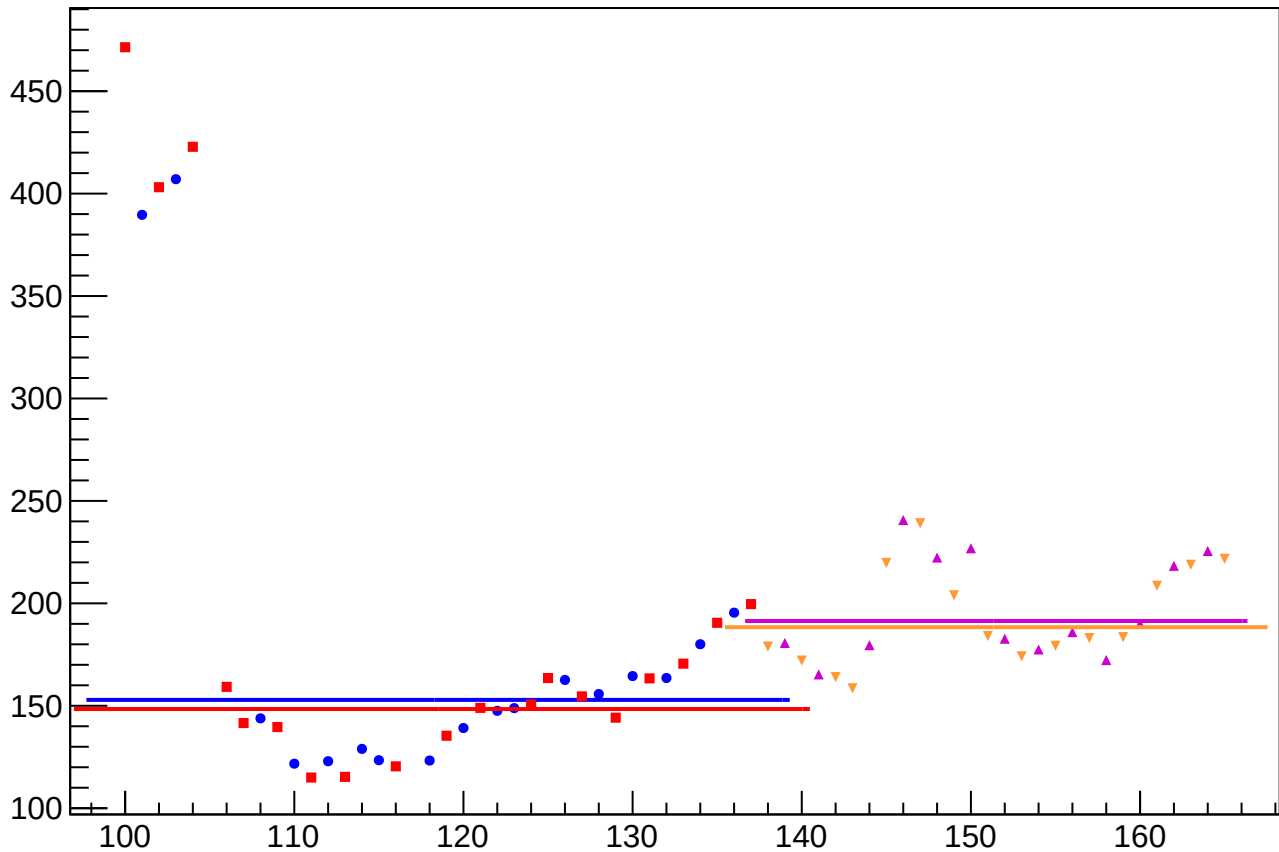
All: 0.875 ± 0.000 χ^2/NDF : 5825616.0/63

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063	χ^2 /NDF: 3309974859.4/16	Left: 150530.265 $\pm$ 0.042	χ^2 /NDF: 4011000434.6/2
Left Out: 150516.834 $\pm$ 0.057	χ^2 /NDF: 2346543610.6/14	Right: 150890.022 $\pm$ 0.043	χ^2 /NDF: 6632946370.1/4
Right Out: 151083.268 $\pm$ 0.060	χ^2 /NDF: 3300830370.5/18	In: 150607.508 $\pm$ 0.044	χ^2 /NDF: 4976526159.4/29
Left In: 150545.229 $\pm$ 0.060	χ^2 /NDF: 1664340622.3/12	Out: 150788.420 $\pm$ 0.041	χ^2 /NDF: 5694246507.1/3
		All: 150702.817 $\pm$ 0.030	χ^2 /NDF: 106798376

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2 /NDF: 1154088.7/16

Left Out: 188.373 $\pm$ 0.041 χ^2 /NDF:281039.2/14

Right Out: 148.418 $\pm$ 0.042 χ^2 /NDF: 1191577.6/18

Left In: 191.375 $\pm$ 0.043 χ^2 /NDF:277394.4/12

Left: 189.793 $\pm$ 0.029 χ^2 /NDF: 561031.7/27

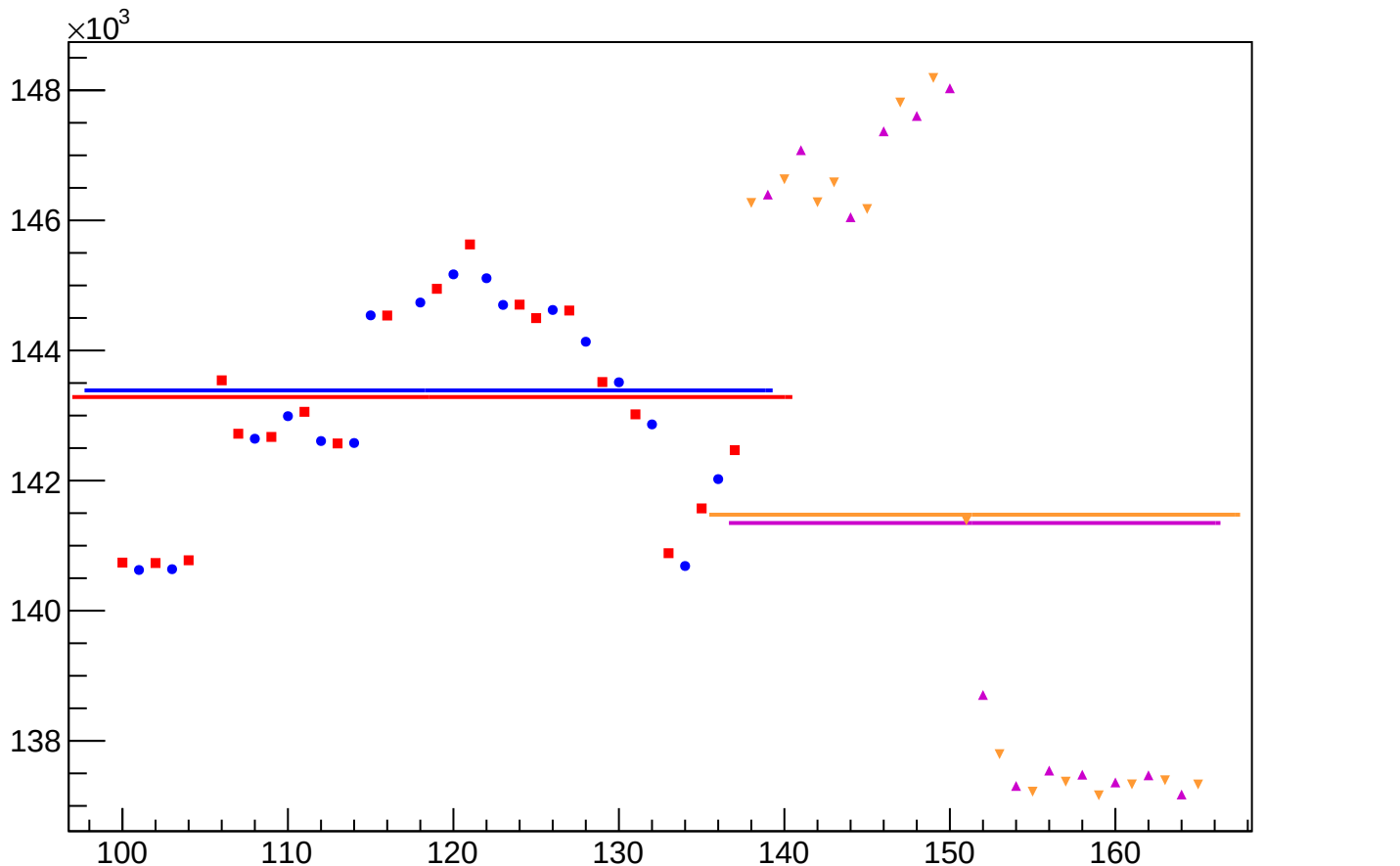
Right: 150.532 $\pm$ 0.031 χ^2 /NDF: 2350963.4/35

In: 172.906 $\pm$ 0.031 χ^2 /NDF:1820328.1/29

Out: 169.216 $\pm$ 0.029 χ^2 /NDF:1939051.4/33

All: 170.962 $\pm$ 0.021 χ^2 /NDF: 3766921.8/63

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053 χ^2 /NDF: 521299875.7/16

Left Out: 141476.519 $\pm$ 0.054 χ^2 /NDF: 6961030773.6/14

Right Out: 143284.757 $\pm$ 0.049 χ^2 /NDF: 608634820.1/18

Left In: 141348.473 $\pm$ 0.057 χ^2 /NDF: 6591108635.7/12

Left: 141415.854 $\pm$ 0.039 χ^2 /NDF: 13554806568.0

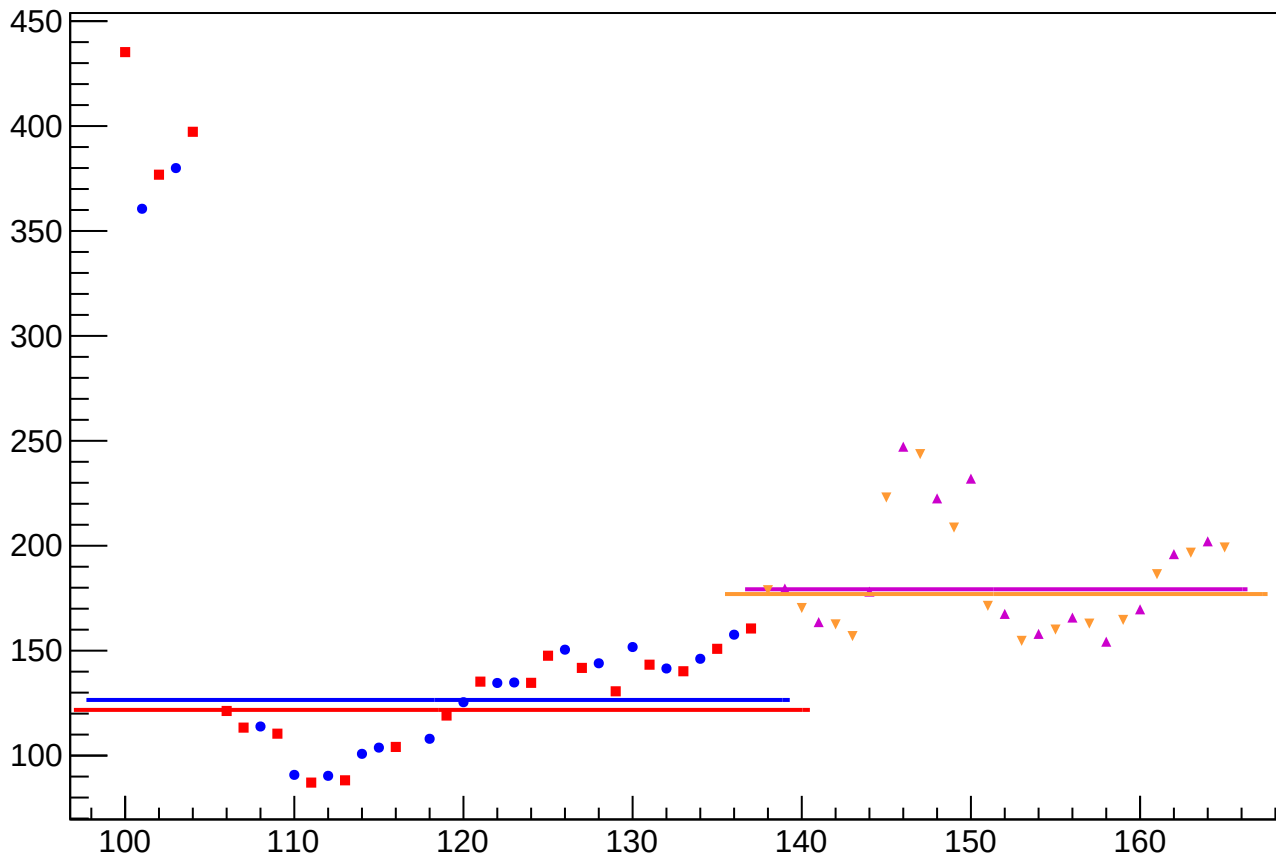
Right: 143332.291 $\pm$ 0.036 χ^2 /NDF: 1131952524.8

In: 142444.902 $\pm$ 0.039 χ^2 /NDF: 7803386986.0/29

Out: 142465.820 $\pm$ 0.036 χ^2 /NDF: 8183894987.9/3

All: 142456.016 $\pm$ 0.026 χ^2 /NDF: 159874374

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 176.978 $\pm$ 0.038 χ^2 /NDF:353655.2/14

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 179.264 $\pm$ 0.040 χ^2 /NDF:403595.7/12

Left: 178.061 $\pm$ 0.028 χ^2 /NDF: 758950.3/27

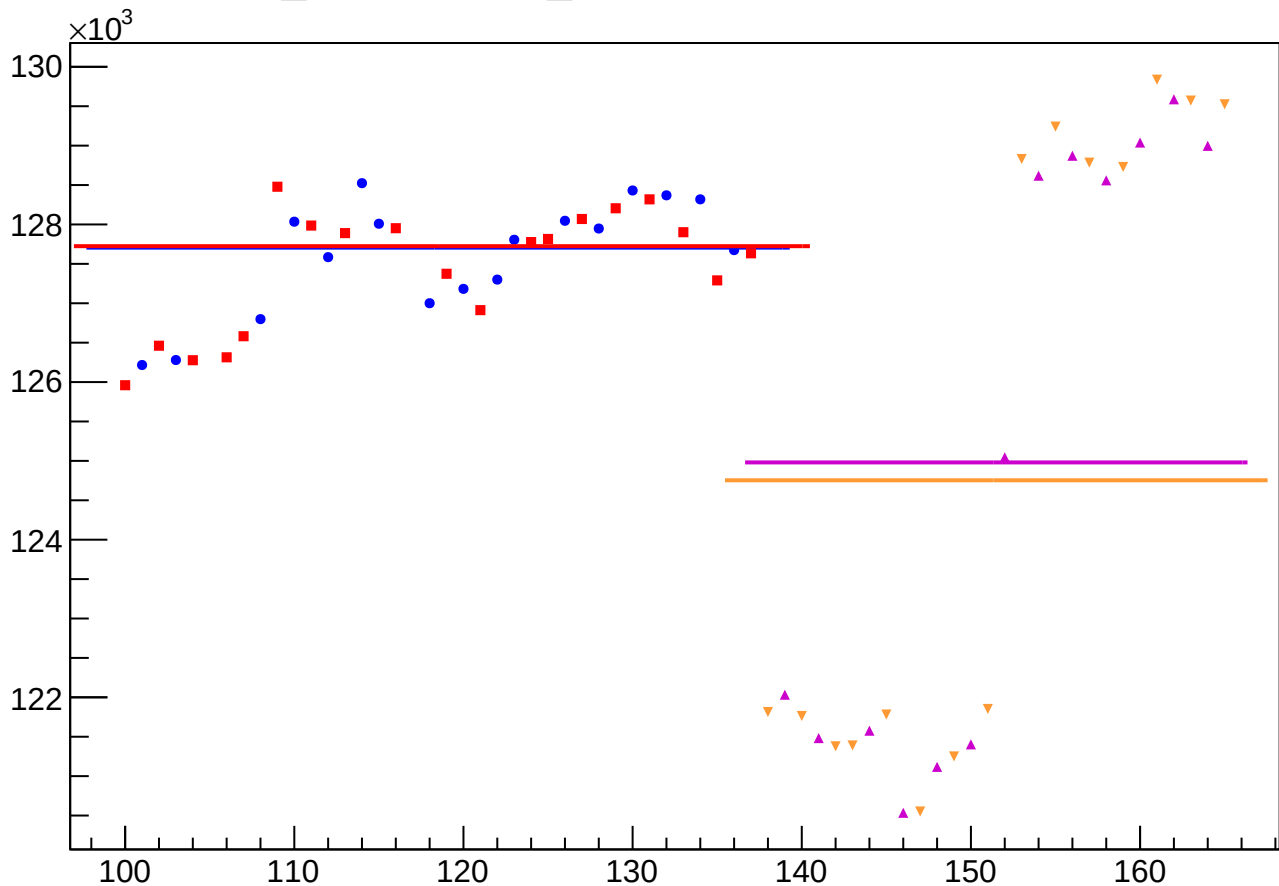
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 150.893 $\pm$ 0.027 χ^2 /NDF:2770530.4/29

Out: 146.775 $\pm$ 0.026 χ^2 /NDF:2962532.7/33

All: 148.705 $\pm$ 0.019 χ^2 /NDF: 5745120.6/63

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058 χ^2 /NDF: 97860521.1/16

Left Out: 124753.679 $\pm$ 0.052 χ^2 /NDF: 5167336475.6/14

Right Out: 127724.256 $\pm$ 0.055 χ^2 /NDF: 112614317.2/18

Left In: 124980.549 $\pm$ 0.053 χ^2 /NDF: 4533854127.2/12

Left: 124866.418 $\pm$ 0.037 χ^2 /NDF: 9710498784.8/20

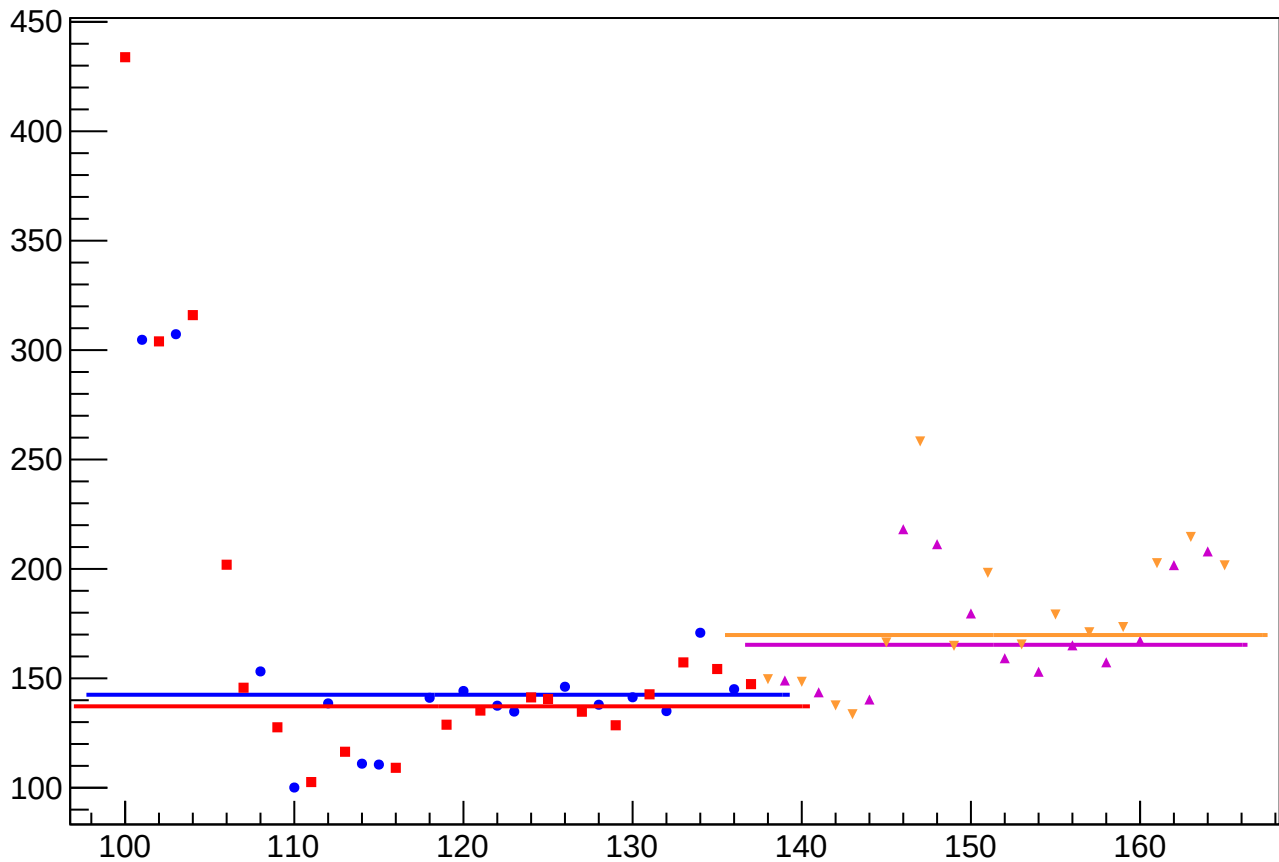
Right: 127715.791 $\pm$ 0.040 χ^2 /NDF: 210526259.6/30

In: 126212.871 $\pm$ 0.039 χ^2 /NDF: 5839194823.2/29

Out: 126180.451 $\pm$ 0.038 χ^2 /NDF: 6822399445.7/30

All: 126196.134 $\pm$ 0.027 χ^2 /NDF: 126619502.0/59

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 169.793 $\pm$ 0.037 χ^2 /NDF: 551254.6/14

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 165.325 $\pm$ 0.037 χ^2 /NDF: 397080.2/12

Left: 167.573 $\pm$ 0.026 χ^2 /NDF: 955556.9/27

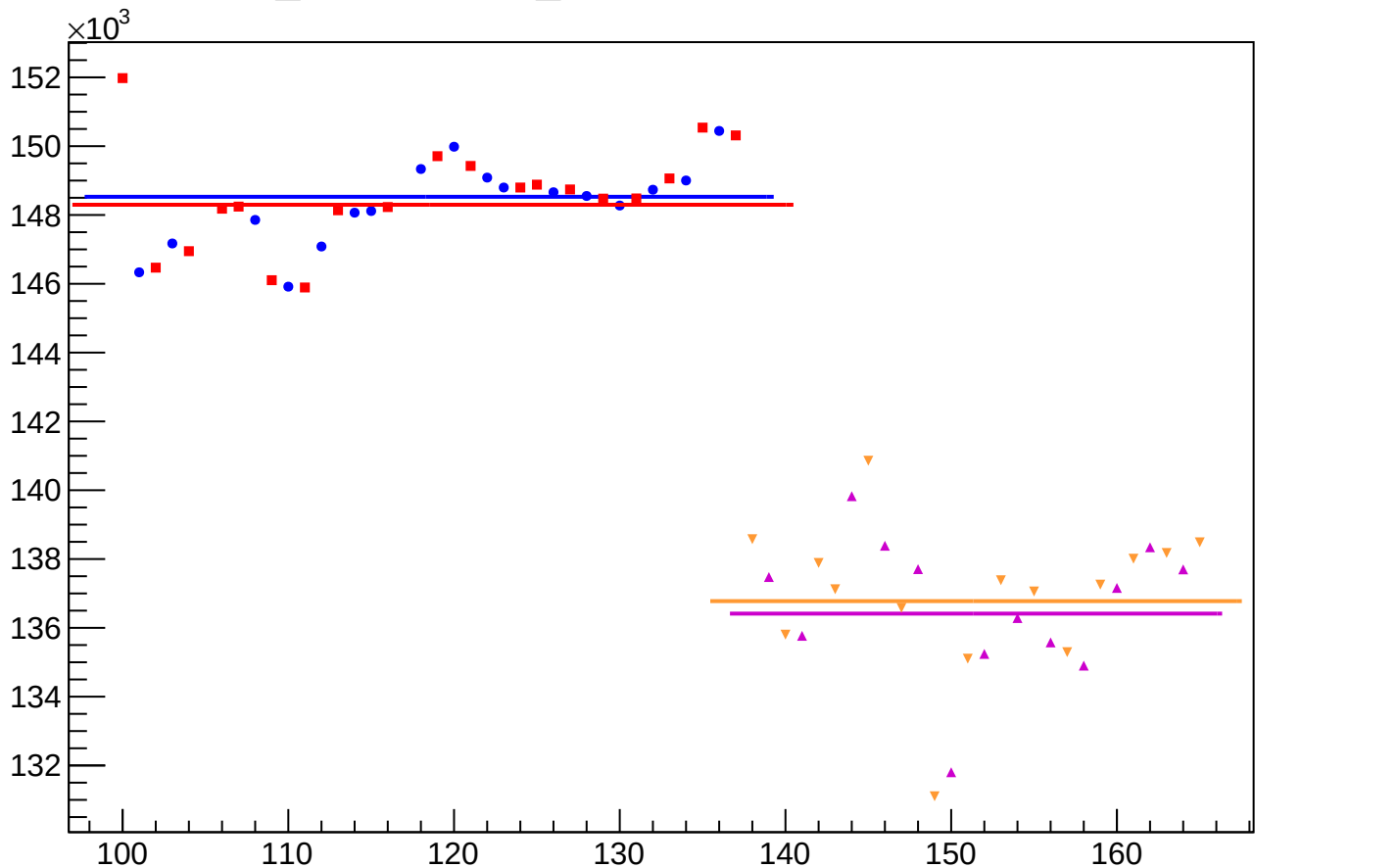
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 155.006 $\pm$ 0.028 χ^2 /NDF: 1402669.7/29

Out: 154.144 $\pm$ 0.027 χ^2 /NDF: 1879685.9/33

All: 154.561 $\pm$ 0.019 χ^2 /NDF: 3282858.6/63

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2/NDF : 209986594.2/16

Left Out: 136777.107 $\pm$ 0.077 χ^2/NDF : 829653924.1/14

Right Out: 148297.126 $\pm$ 0.076 χ^2/NDF : 293244556.5/18

Left In: 136413.826 $\pm$ 0.078 χ^2/NDF : 637290678.9/12

Left: 136598.315 $\pm$ 0.055 χ^2/NDF : 1477967149.6/2

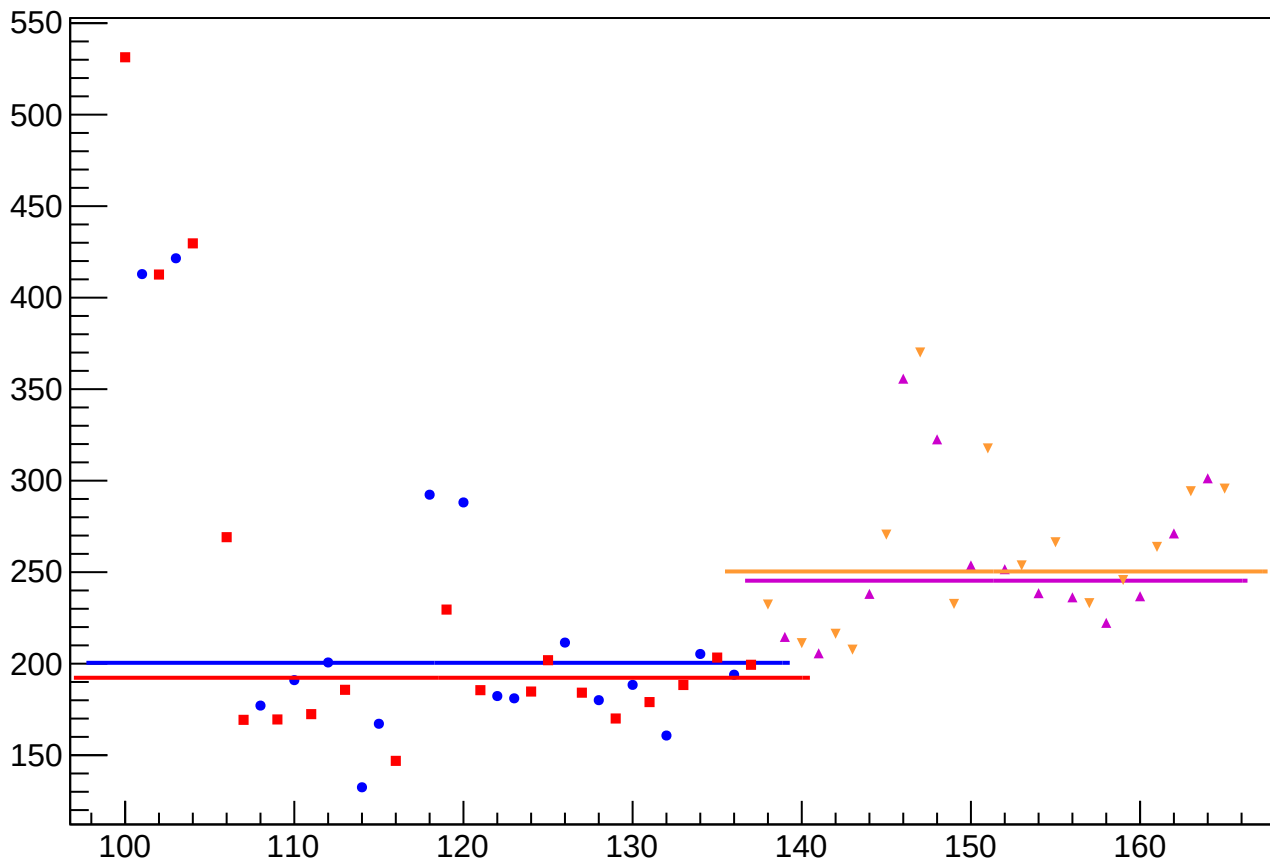
Right: 148404.723 $\pm$ 0.056 χ^2/NDF : 507501516.8/3

In: 142161.641 $\pm$ 0.057 χ^2/NDF : 12299684701.2/2

Out: 142563.636 $\pm$ 0.054 χ^2/NDF : 12435465163.1

All: 142371.260 $\pm$ 0.039 χ^2/NDF : 247615190

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 250.389 $\pm$ 0.054 χ^2 /NDF: 464078.7/14

Right Out: 192.304 $\pm$ 0.054 χ^2 /NDF: 844504.1/18

Left In: 245.343 $\pm$ 0.055 χ^2 /NDF: 409255.9/12

Left: 247.906 $\pm$ 0.039 χ^2 /NDF: 877587.3/27

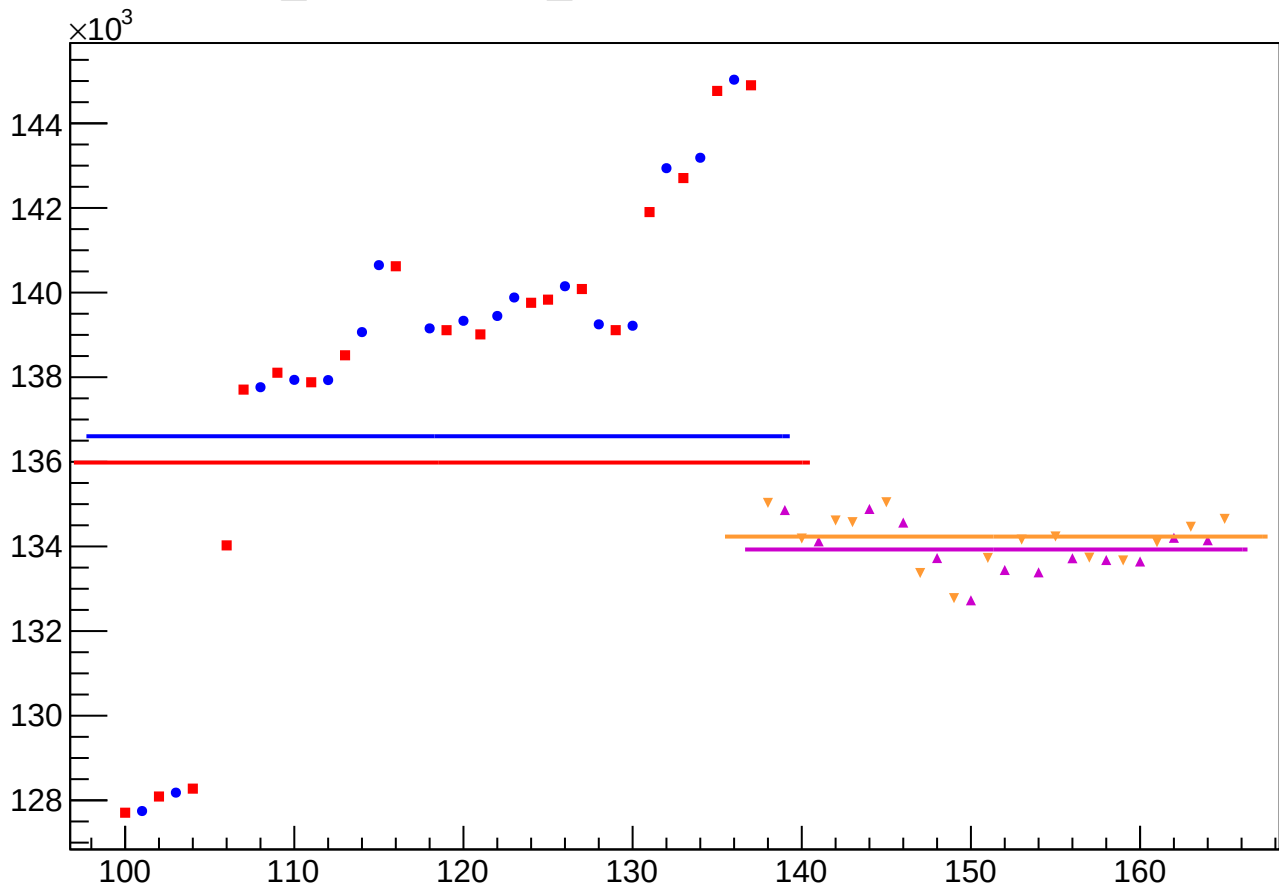
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 224.055 $\pm$ 0.040 χ^2 /NDF: 1660007.4/29

Out: 221.213 $\pm$ 0.038 χ^2 /NDF: 1883771.5/33

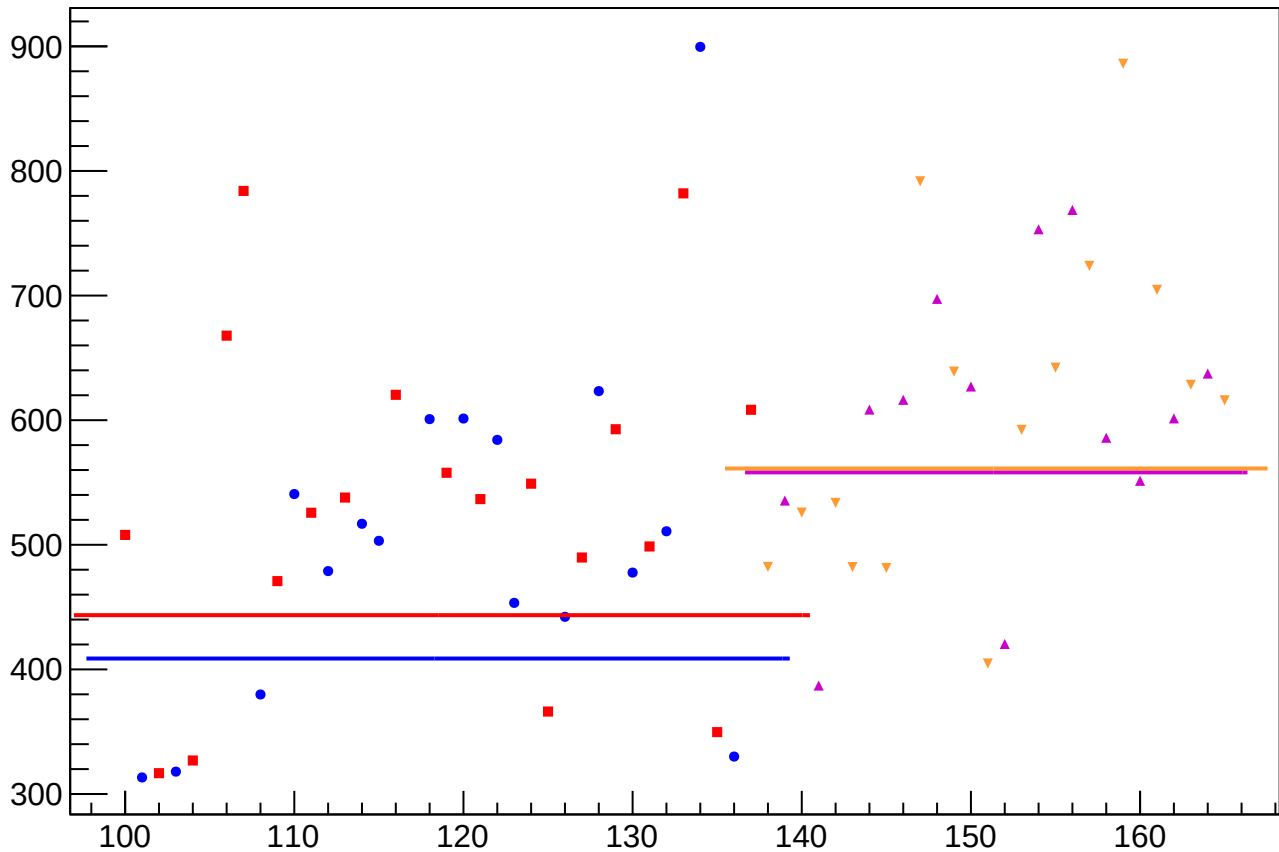
All: 222.573 $\pm$ 0.028 χ^2 /NDF: 3546414.7/63

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134088.659 $\pm$ 0.131	χ^2 /NDF: 21856750.1/27
Left Out: 134233.306 $\pm$ 0.181	χ^2 /NDF: 11285455.3/14	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/16
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135407.555 $\pm$ 0.127	χ^2 /NDF: 1612585194.1/29
Left In: 133928.249 $\pm$ 0.191	χ^2 /NDF: 9224011.5/12	Out: 135099.851 $\pm$ 0.129	χ^2 /NDF: 1140005843.3/30
		All: 135255.039 $\pm$ 0.091	χ^2 /NDF: 275547986.0/40

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 561.247 $\pm$ 0.128 χ^2 /NDF:828119.1/14

Right Out: 443.521 $\pm$ 0.129 χ^2 /NDF: 917492.4/18

Left In: 558.103 $\pm$ 0.135 χ^2 /NDF:723239.3/12

Left: 559.756 $\pm$ 0.093 χ^2 /NDF: 1551644.6/27

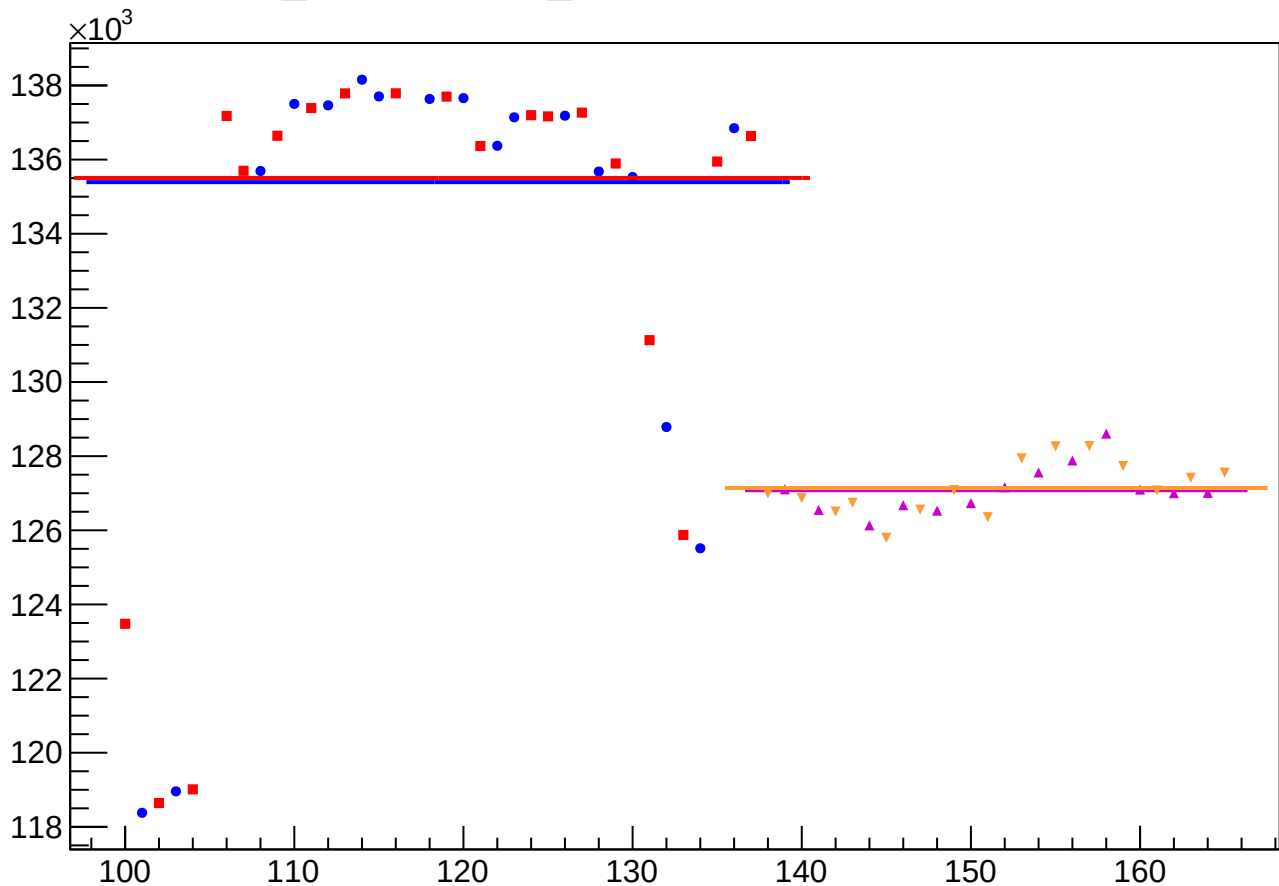
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 475.540 $\pm$ 0.090 χ^2 /NDF:2225599.6/29

Out: 502.937 $\pm$ 0.091 χ^2 /NDF:2164796.1/33

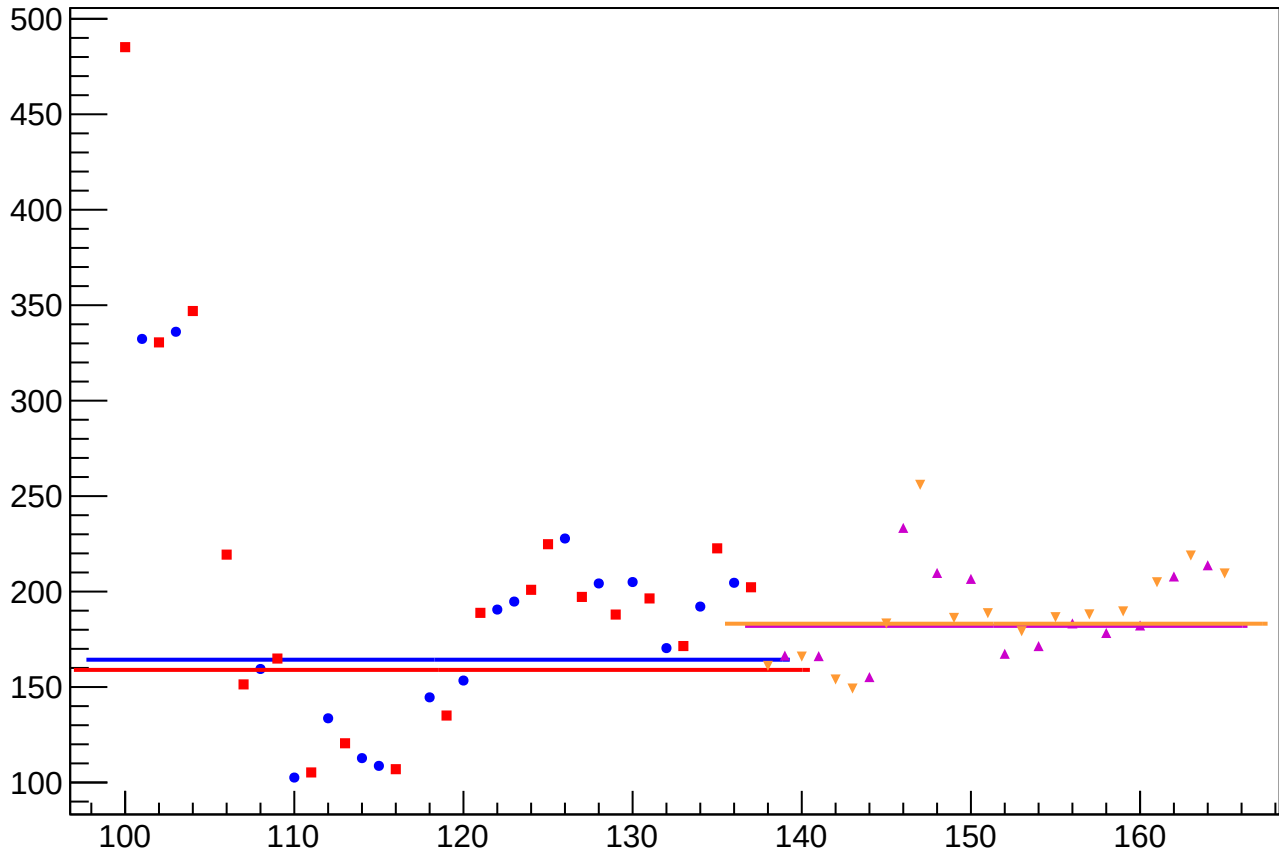
All: 489.120 $\pm$ 0.064 χ^2 /NDF: 4436198.6/63

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127111.828 $\pm$ 0.040	χ^2 /NDF: 286686880.1/27
Left Out: 127140.632 $\pm$ 0.056	χ^2 /NDF: 154598717.4/14	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130543.635 $\pm$ 0.044	χ^2 /NDF: 13356799528.0/2
Left In: 127081.271 $\pm$ 0.058	χ^2 /NDF: 131543164.3/12	Out: 130743.445 $\pm$ 0.042	χ^2 /NDF: 14490474390.1
		All: 130647.710 $\pm$ 0.030	χ^2 /NDF: 278579847

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 183.173+/-0.040 χ^2/NDF : 347130.3/14

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 182.034+/-0.041 χ^2/NDF : 272844.6/12

Left: 182.620+/-0.028 χ^2/NDF : 620376.6/27

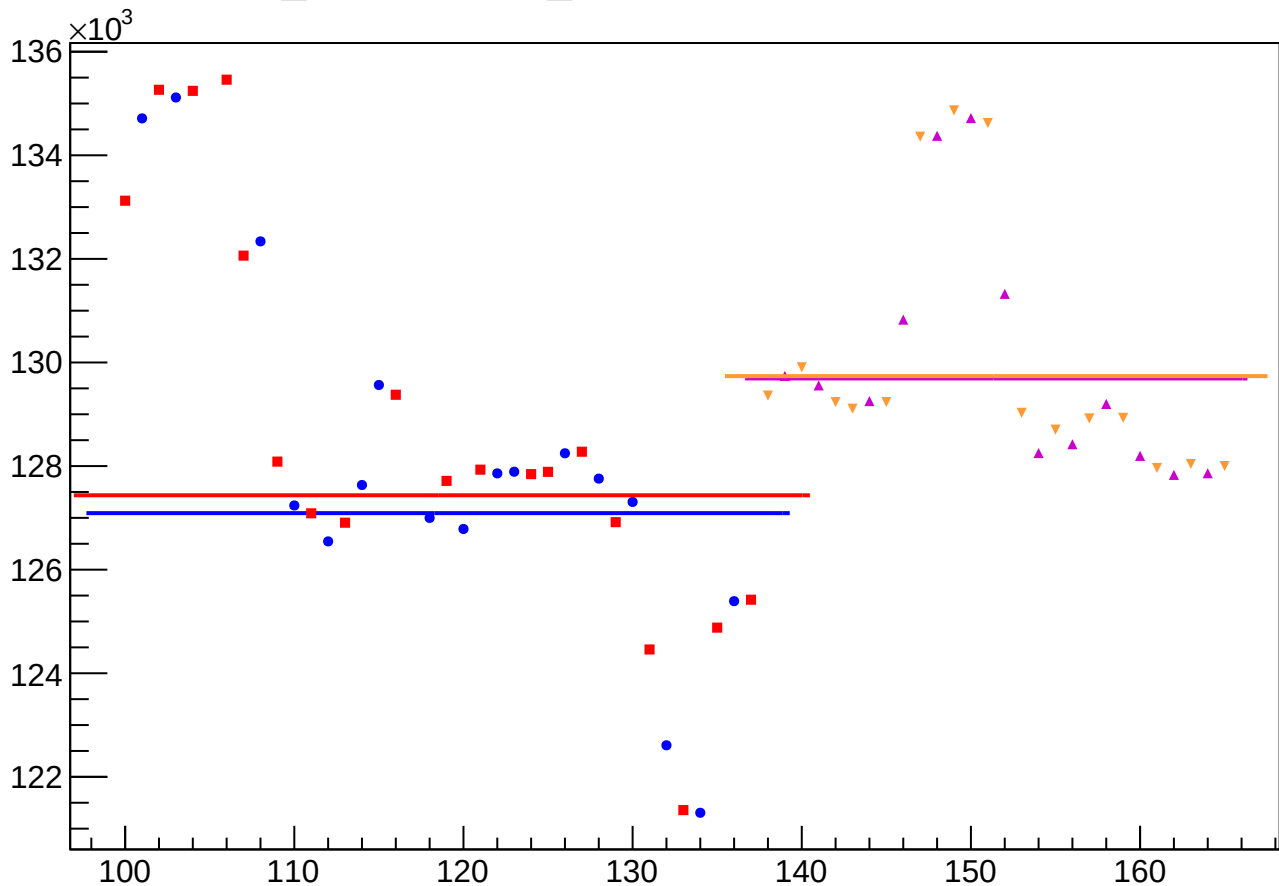
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 174.650+/-0.031 χ^2/NDF : 1581969.3/29

Out: 172.751+/-0.030 χ^2/NDF : 1891945.0/33

All: 173.661+/-0.022 χ^2/NDF : 3475848.5/63

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066

χ^2/NDF : 1717208780.6/16

Left: 129714.805+/-0.041

χ^2/NDF : 2317594787.2/2

Left Out: 129736.701+/-0.057

χ^2/NDF : 1283187468.5/14

Right: 127276.609+/-0.045

χ^2/NDF : 3810794624.3/3

Right Out: 127436.101+/-0.062

χ^2/NDF : 2079075713.9/18

In: 128561.794+/-0.044

χ^2/NDF : 3620926606.1/29

Out: 128684.203+/-0.042

χ^2/NDF : 4120332429.3/3

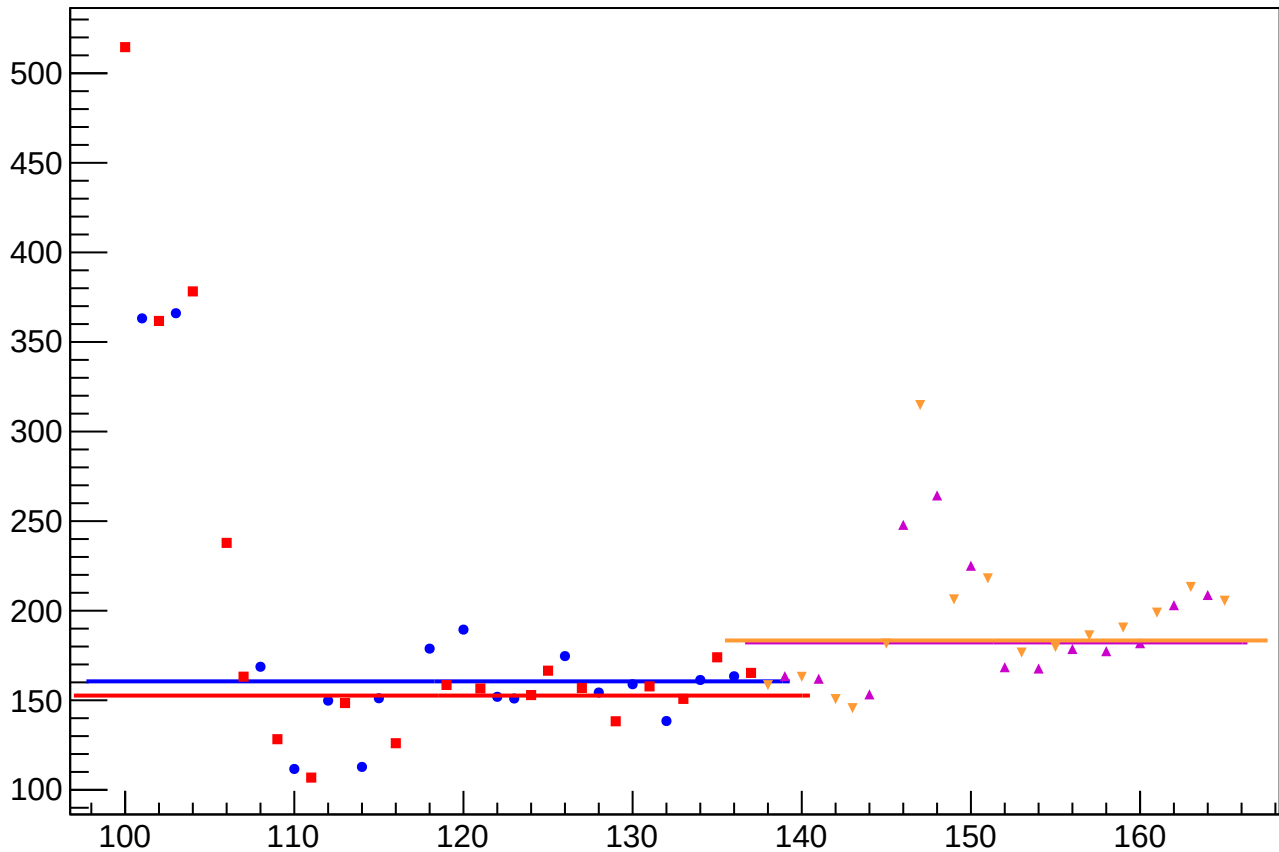
Left In: 129691.647+/-0.058

χ^2/NDF : 1034098478.7/12

All: 128625.980+/-0.030

χ^2/NDF : 774537196

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 183.384 $\pm$ 0.040 χ^2 /NDF: 570127.7/14

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 182.290 $\pm$ 0.041 χ^2 /NDF: 484962.3/12

Left: 182.853 $\pm$ 0.029 χ^2 /NDF: 1055454.1/27

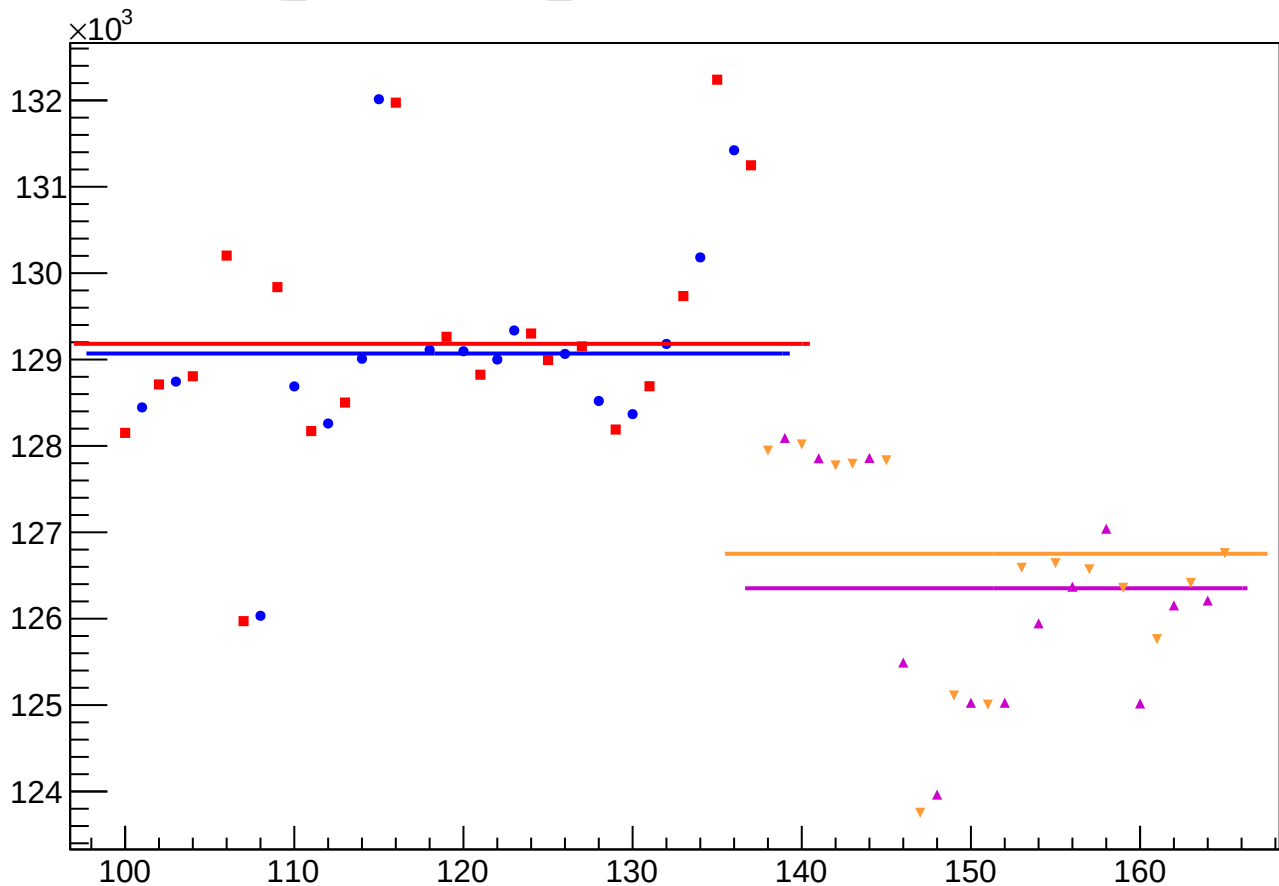
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 172.850 $\pm$ 0.031 χ^2 /NDF: 1549142.5/29

Out: 169.314 $\pm$ 0.029 χ^2 /NDF: 1927591.9/33

All: 170.996 $\pm$ 0.021 χ^2 /NDF: 3483596.9/63

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060

χ^2/NDF : 476692316.5/16

Left: 126558.024 $\pm$ 0.039

χ^2/NDF : 967893107.5/27

Right: 129129.710 $\pm$ 0.041

χ^2/NDF : 1104150743.5/14

Left Out: 126751.530 $\pm$ 0.054

χ^2/NDF : 434242908.5/14

Right Out: 129181.887 $\pm$ 0.056

χ^2/NDF : 625597399.6/18

In: 127614.229 $\pm$ 0.041

χ^2/NDF : 2076596152.7/29

Out: 127927.936 $\pm$ 0.039

χ^2/NDF : 2028469520.3/3

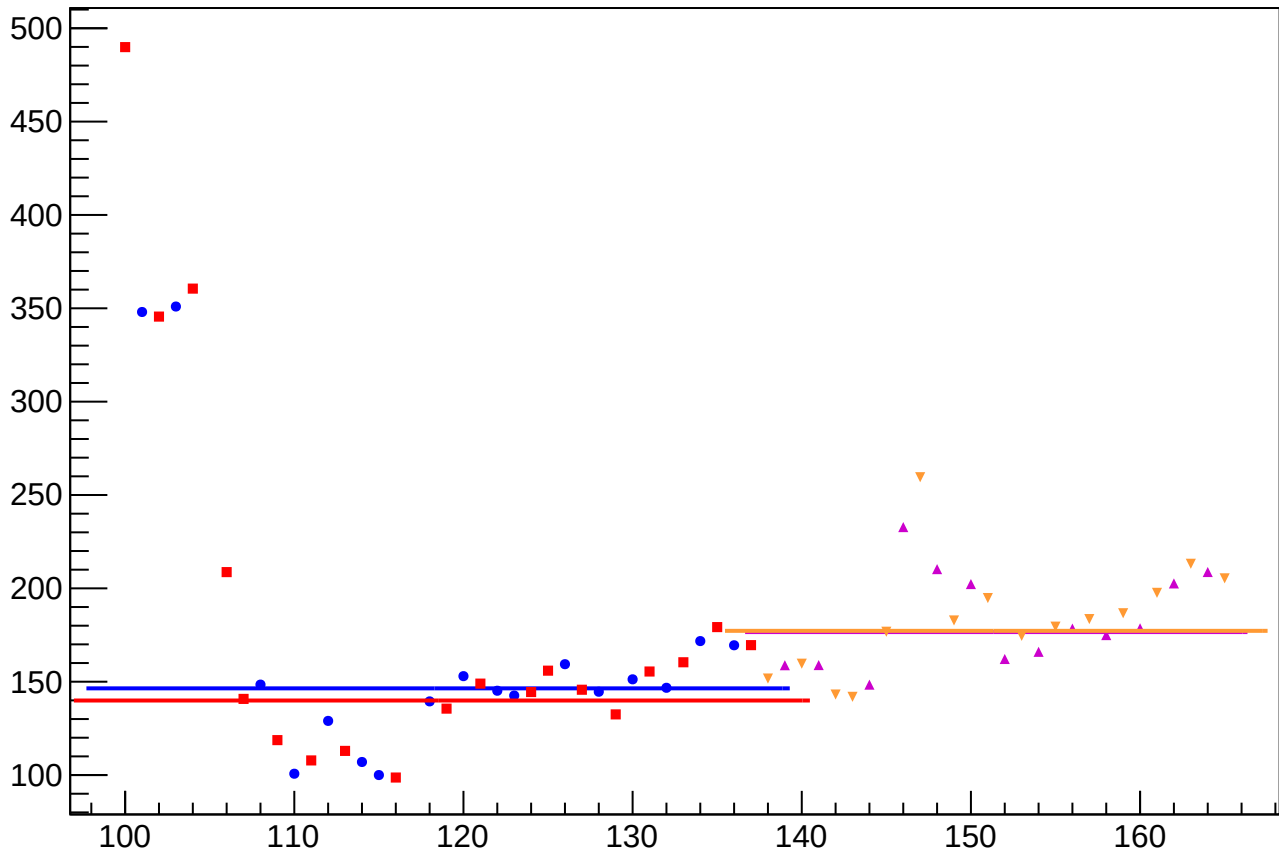
Left In: 126352.221 $\pm$ 0.056

χ^2/NDF : 507472410.8/12

All: 127778.838 $\pm$ 0.028

χ^2/NDF : 413577813

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 177.246 $\pm$ 0.038 χ^2 /NDF:444189.4/14

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 176.583 $\pm$ 0.040 χ^2 /NDF:329813.3/12

Left: 176.925 $\pm$ 0.028 χ^2 /NDF: 774147.2/27

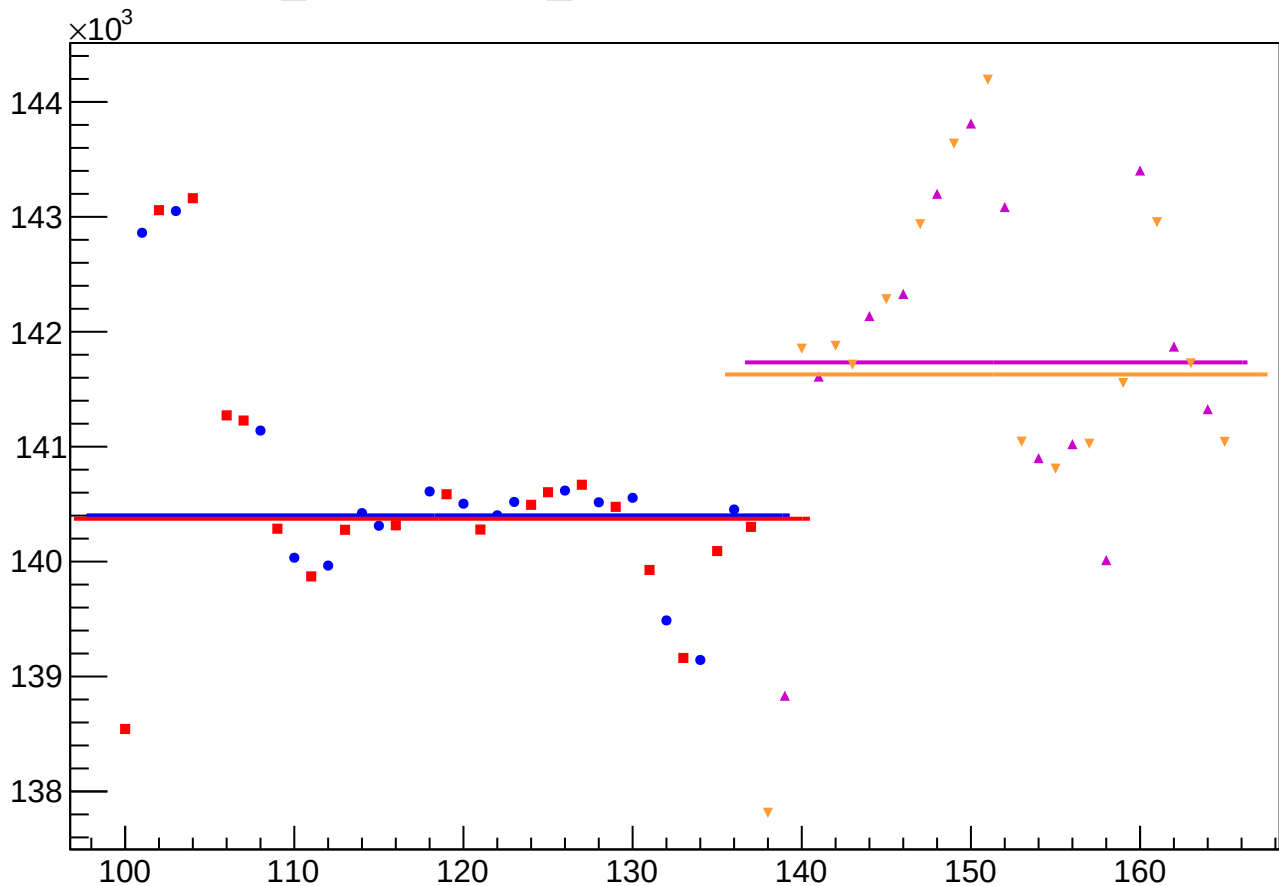
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 162.583 $\pm$ 0.029 χ^2 /NDF:1663473.1/29

Out: 159.183 $\pm$ 0.028 χ^2 /NDF:2104488.6/33

All: 160.799 $\pm$ 0.020 χ^2 /NDF: 3775177.4/63

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010+/-0.064

χ^2/NDF : 88071774.7/16

Left Out: 141628.574+/-0.063

χ^2/NDF : 587607930.5/14

Right Out: 140373.163+/-0.060

χ^2/NDF : 99854533.3/18

Left In: 141733.490+/-0.065

χ^2/NDF : 464359024.8/12

Left: 141679.687+/-0.045

χ^2/NDF : 1053321029.2/2

Right: 140386.544+/-0.044

χ^2/NDF : 188034057.1/3

In: 141065.496+/-0.046

χ^2/NDF : 765784105.6/29

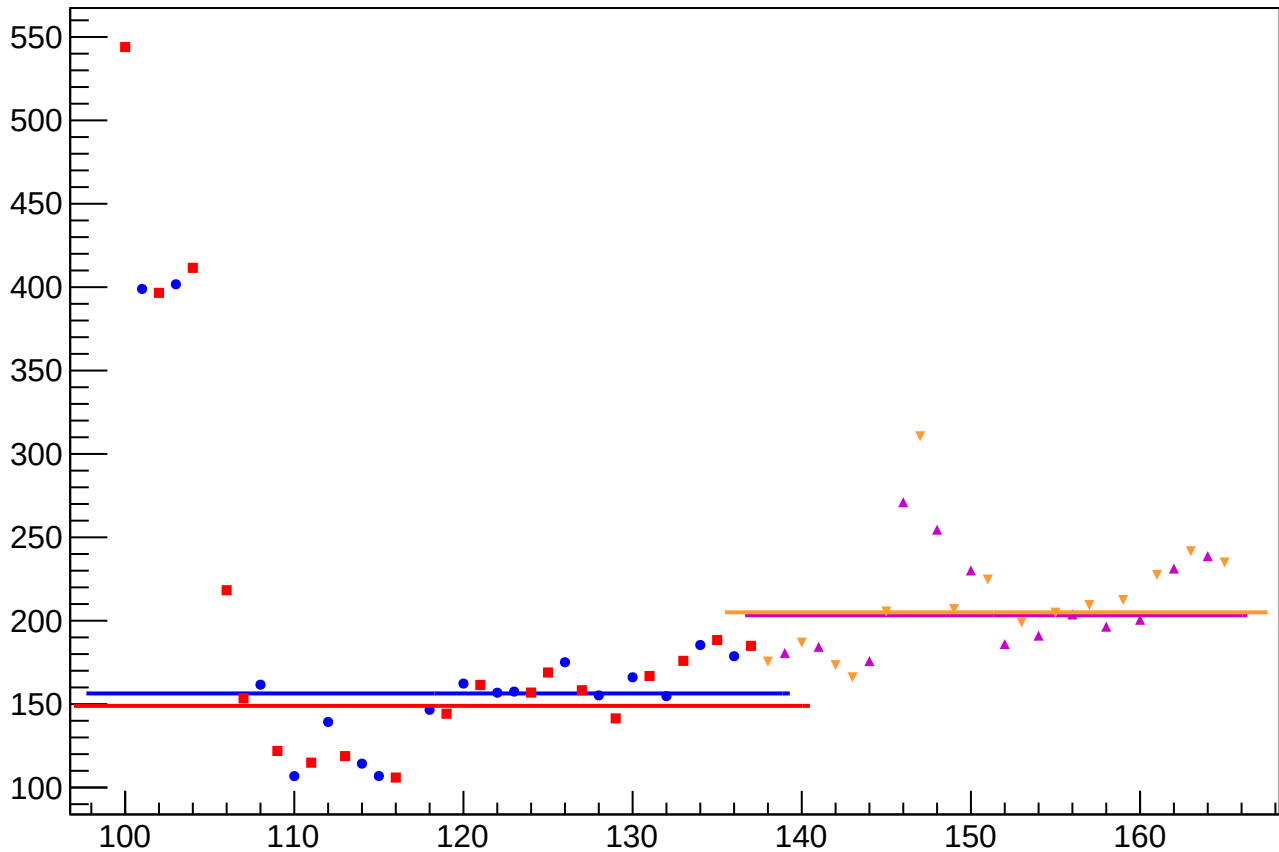
Out: 140969.398+/-0.043

χ^2/NDF : 896421942.2/33

All: 141015.062+/-0.031

χ^2/NDF : 166453915

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 205.030 $\pm$ 0.044 χ^2 /NDF: 415904.6/14

Right Out: 148.949 $\pm$ 0.042 χ^2 /NDF: 1307651.5/18

Left In: 203.260 $\pm$ 0.046 χ^2 /NDF: 334411.8/12

Left: 204.168 $\pm$ 0.032 χ^2 /NDF: 751087.5/27

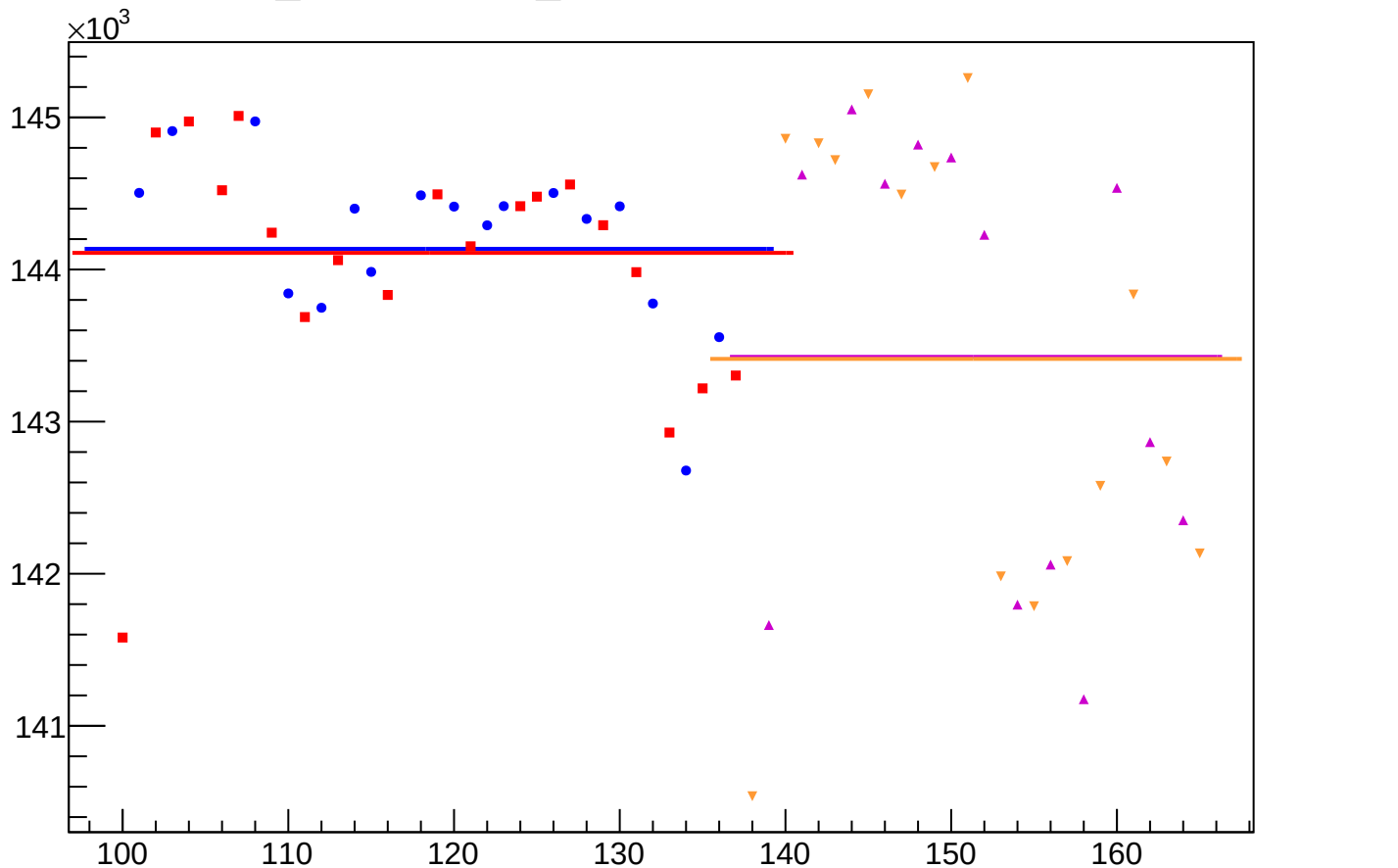
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 179.748 $\pm$ 0.032 χ^2 /NDF: 2017886.7/29

Out: 175.584 $\pm$ 0.031 χ^2 /NDF: 2557533.2/33

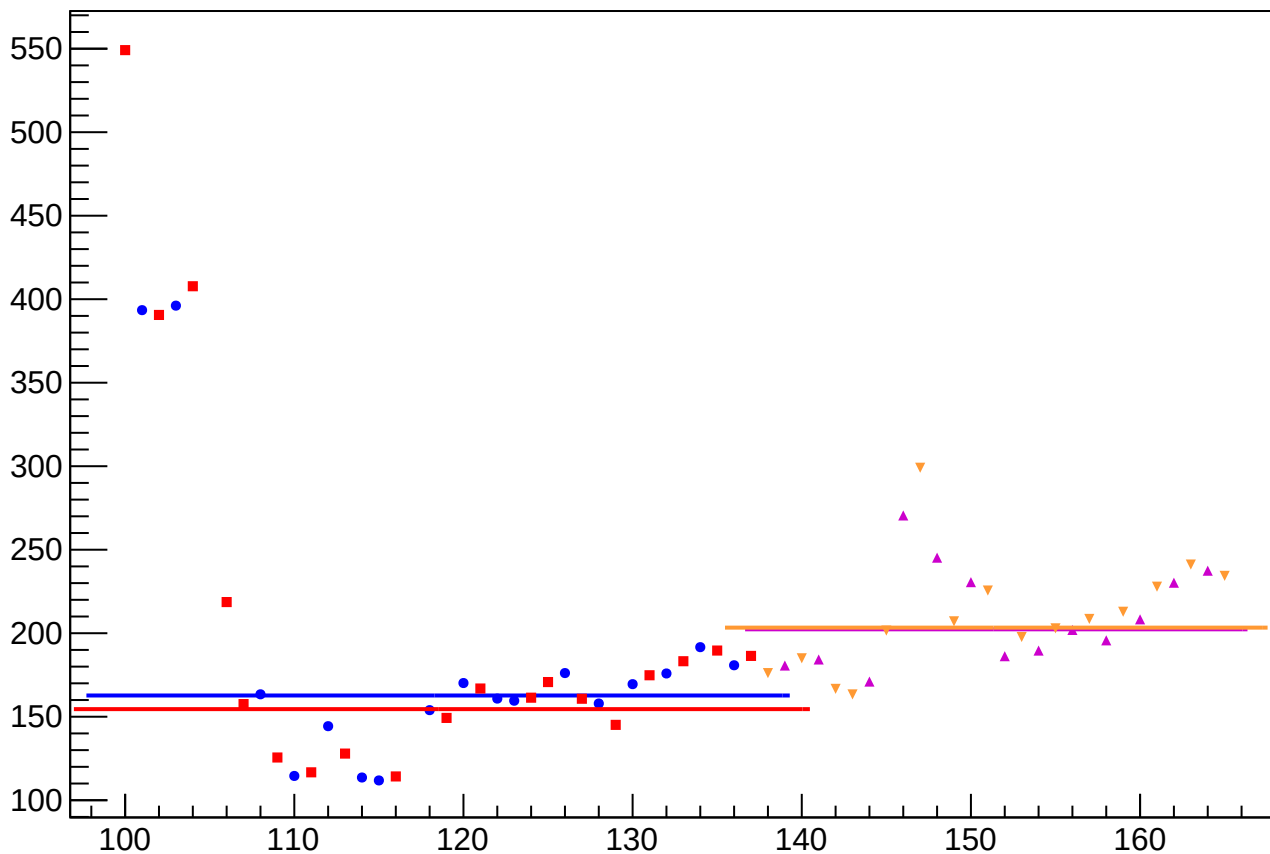
All: 177.562 $\pm$ 0.022 χ^2 /NDF: 4584178.8/63

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067	χ^2 /NDF: 47069480.3/16	Left: 143418.958 $\pm$ 0.045	χ^2 /NDF: 1109070584.6/2
Left Out: 143412.409 $\pm$ 0.062	χ^2 /NDF: 610294724.6/14	Right: 144121.752 $\pm$ 0.045	χ^2 /NDF: 112414138.5/3
Right Out: 144109.419 $\pm$ 0.062	χ^2 /NDF: 65258627.2/18	In: 143767.599 $\pm$ 0.046	χ^2 /NDF: 604529328.8/29
Left In: 143425.915 $\pm$ 0.064	χ^2 /NDF: 498753128.3/12	Out: 143763.768 $\pm$ 0.044	χ^2 /NDF: 738495471.8/33
		All: 143765.582 $\pm$ 0.032	χ^2 /NDF: 134302840

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2/NDF : 1066482.0/16

Left Out: 203.350 $\pm$ 0.044 χ^2/NDF :421270.4/14

Right Out: 154.547 $\pm$ 0.044 χ^2/NDF : 1217495.9/18

Left In: 202.332 $\pm$ 0.045 χ^2/NDF :334086.3/12

Left: 202.856 $\pm$ 0.032 χ^2/NDF : 755615.2/27

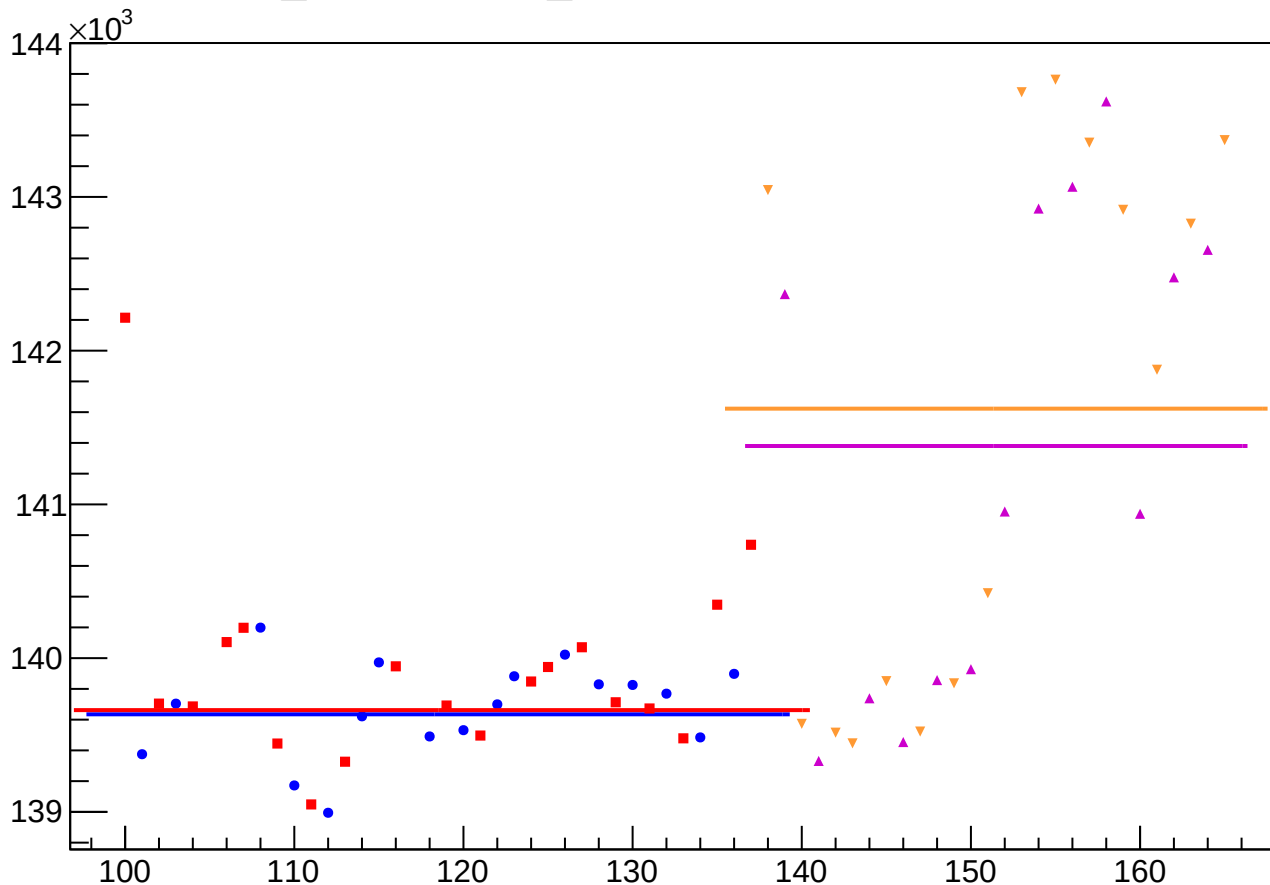
Right: 158.320 $\pm$ 0.032 χ^2/NDF : 2300078.3/35

In: 183.271 $\pm$ 0.033 χ^2/NDF :1765937.7/29

Out: 178.749 $\pm$ 0.031 χ^2/NDF :2255918.3/33

All: 180.891 $\pm$ 0.023 χ^2/NDF : 4031896.8/63

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068

χ^2/NDF : 24844912.0/16

Left Out: 141622.855+/-0.065

χ^2/NDF : 700091271.4/14

Right Out: 139661.970+/-0.063

χ^2/NDF : 38372985.0/18

Left In: 141379.922+/-0.067

χ^2/NDF : 509230866.0/12

Left: 141503.716+/-0.047

χ^2/NDF : 1216070607.9/2

Right: 139649.322+/-0.046

χ^2/NDF : 63304699.0/35

In: 140520.544+/-0.048

χ^2/NDF : 870628552.7/29

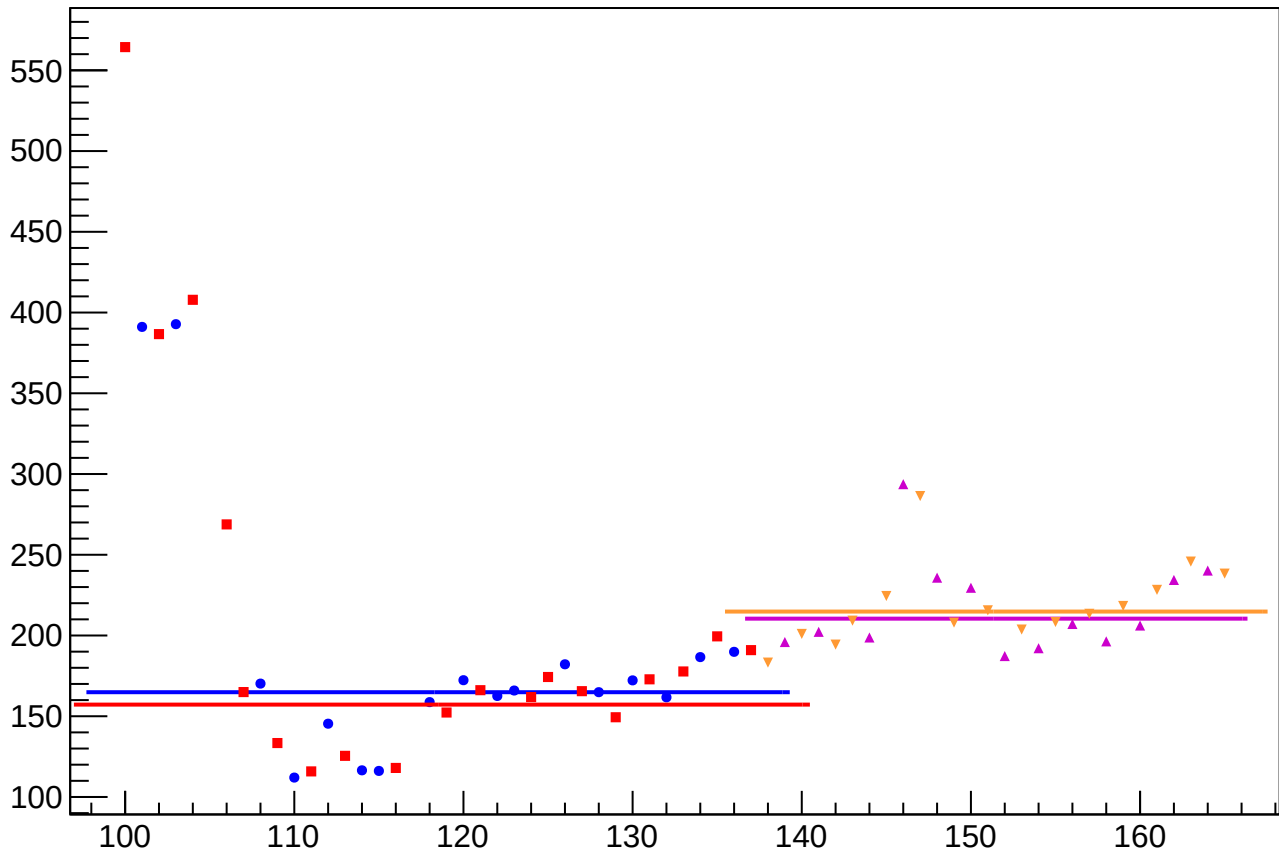
Out: 140605.009+/-0.045

χ^2/NDF : 1203835228.7/3

All: 140564.724+/-0.033

χ^2/NDF : 207611347

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 ± 0.048 $\chi^2/\text{NDF}: 1066270.8/16$

Left Out: 214.823 ± 0.046 $\chi^2/\text{NDF}: 208127.1/14$

Right Out: 157.207 ± 0.045 $\chi^2/\text{NDF}: 1245030.9/18$

Left In: 210.433 ± 0.047 $\chi^2/\text{NDF}: 253129.9/12$

Left: 212.670 ± 0.033 $\chi^2/\text{NDF}: 465664.5/27$

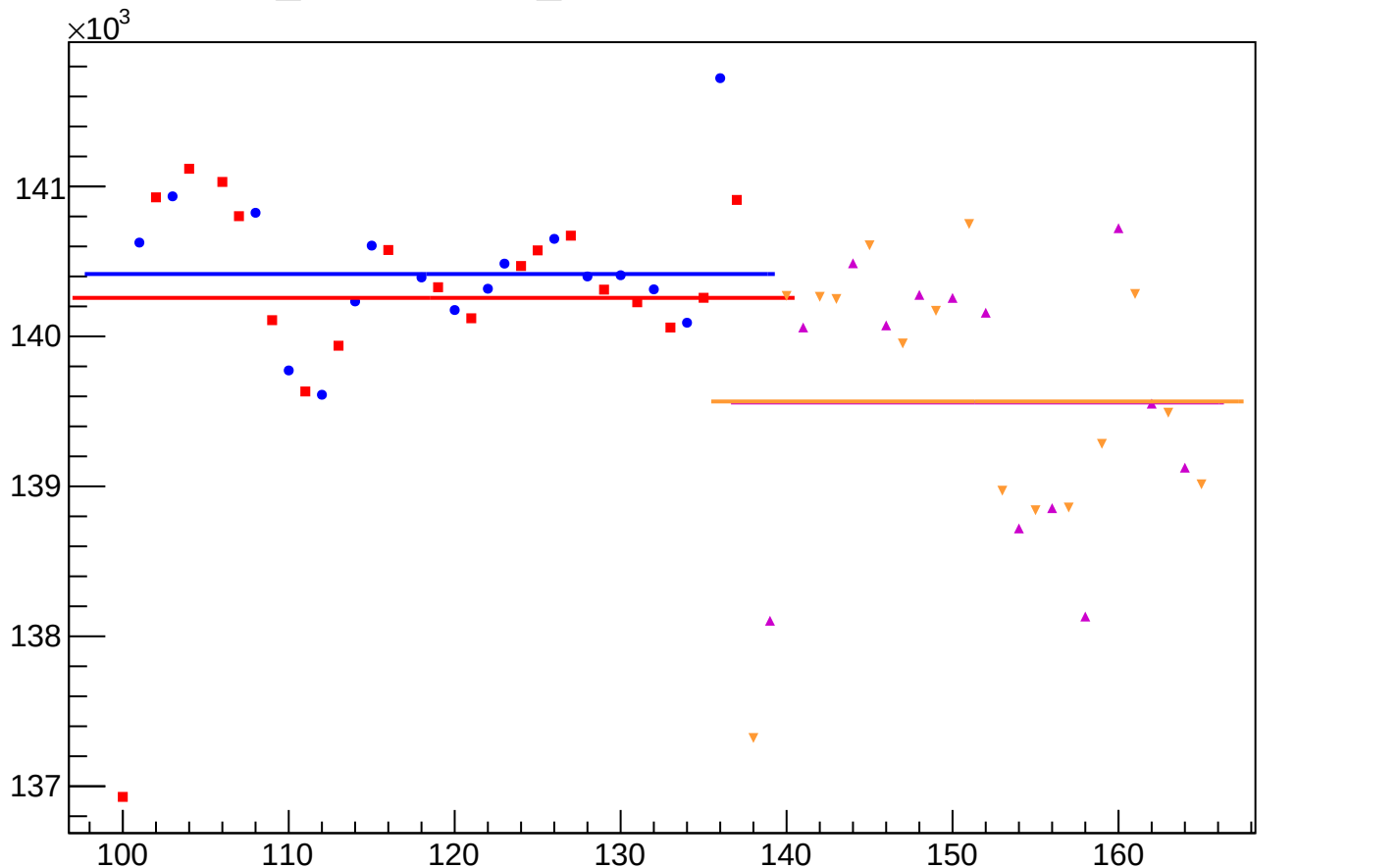
Right: 160.768 ± 0.033 $\chi^2/\text{NDF}: 2325060.5/35$

In: 188.004 ± 0.034 $\chi^2/\text{NDF}: 1777888.4/29$

Out: 184.916 ± 0.032 $\chi^2/\text{NDF}: 2256689.0/33$

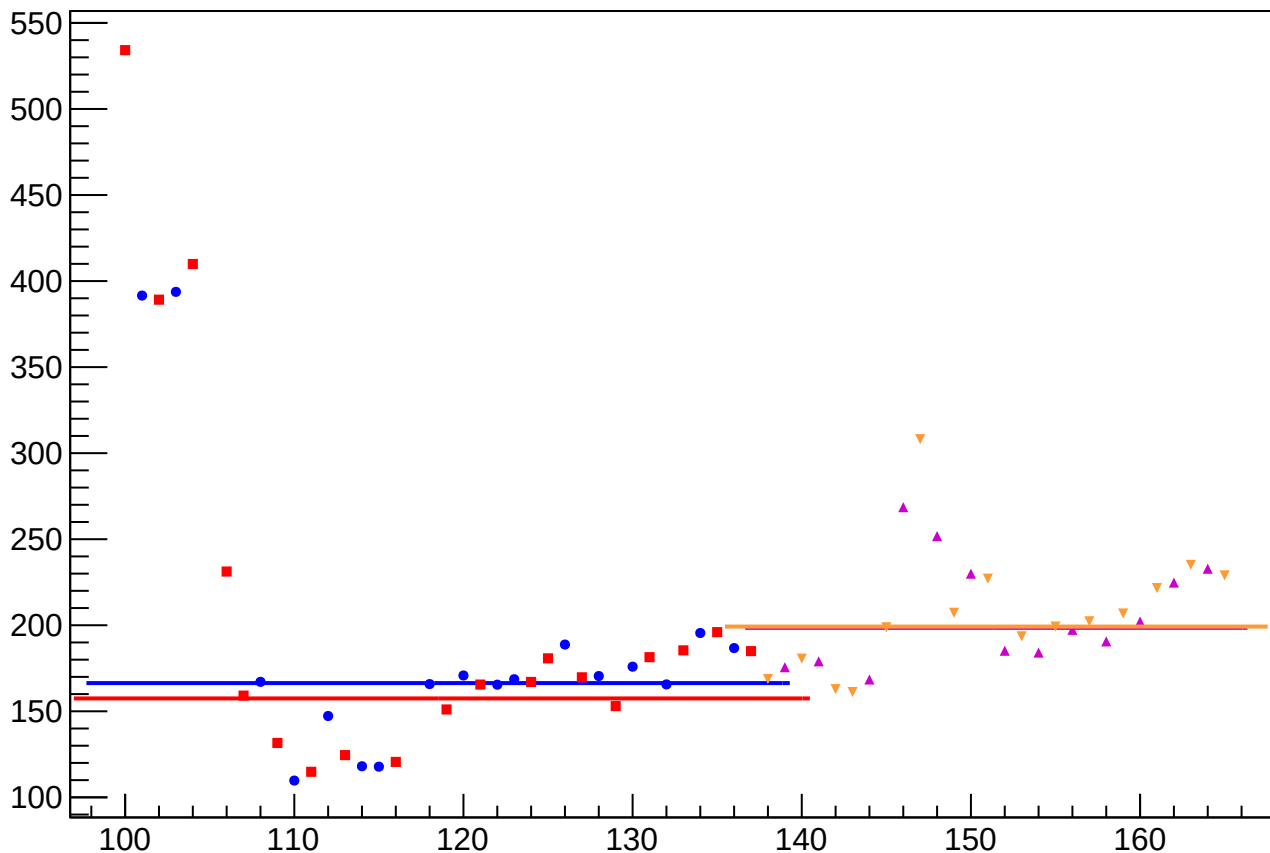
All: 186.389 ± 0.023 $\chi^2/\text{NDF}: 4038987.2/63$

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068	χ^2/NDF : 69975821.3/16	Left: 139562.838 $\pm$ 0.044	χ^2/NDF : 450404427.9/27
Left Out: 139566.145 $\pm$ 0.061	χ^2/NDF : 245809511.9/14	Right: 140330.188 $\pm$ 0.046	χ^2/NDF : 110959487.0/3
Right Out: 140256.992 $\pm$ 0.063	χ^2/NDF : 38063371.4/18	In: 139953.064 $\pm$ 0.046	χ^2/NDF : 359365217.6/29
Left In: 139559.316 $\pm$ 0.063	χ^2/NDF : 204588870.3/12	Out: 139900.326 $\pm$ 0.044	χ^2/NDF : 345672550.3/33
		All: 139925.265 $\pm$ 0.032	χ^2/NDF : 705719714

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388+/-0.048 χ^2/NDF : 1080964.8/16

Left Out: 199.237+/-0.043 χ^2/NDF : 469725.5/14

Right Out: 157.475+/-0.045 χ^2/NDF : 1229886.8/18

Left In: 198.476+/-0.045 χ^2/NDF : 371986.0/12

Left: 198.868+/-0.031 χ^2/NDF : 841861.5/27

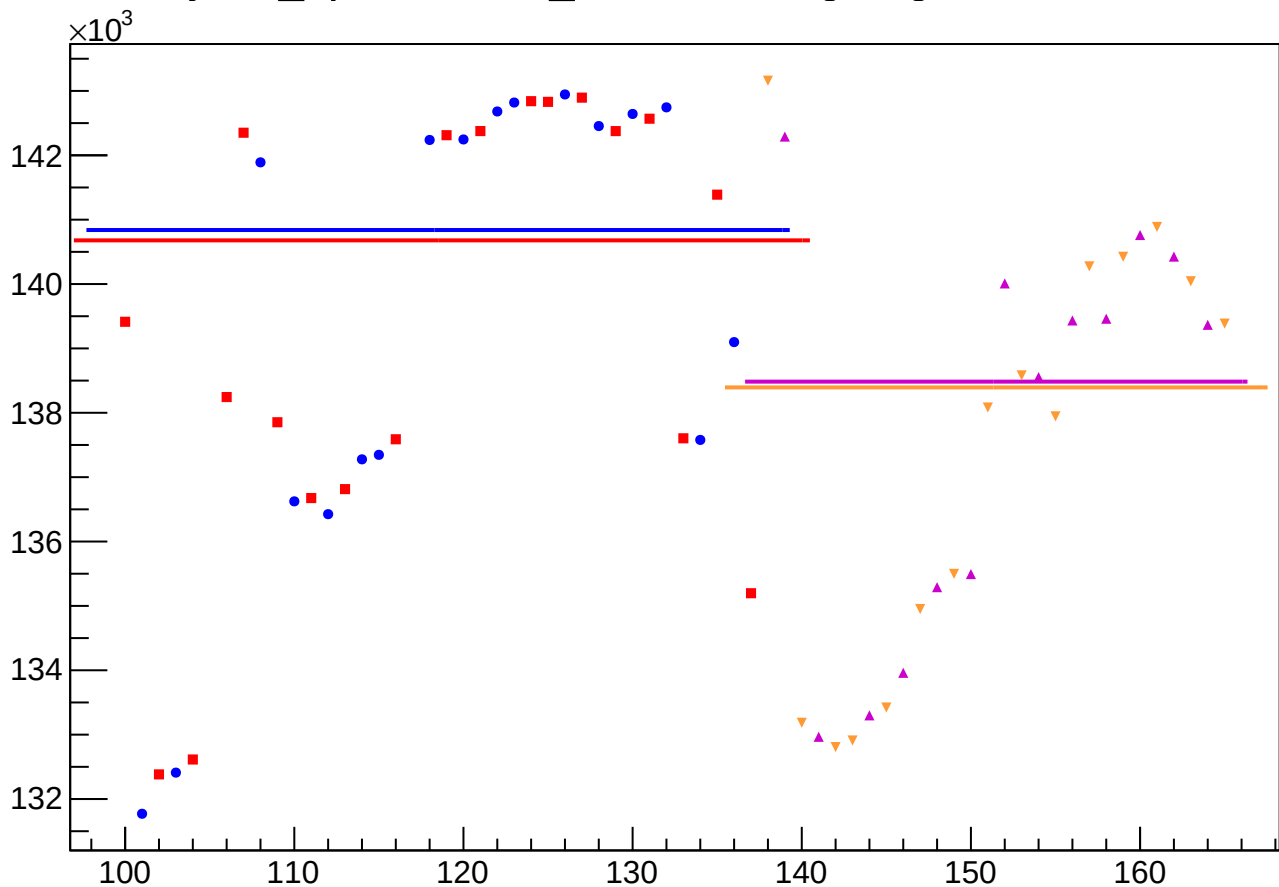
Right: 161.576+/-0.033 χ^2/NDF : 2329186.5/35

In: 183.729+/-0.033 χ^2/NDF : 1690864.7/29

Out: 179.036+/-0.031 χ^2/NDF : 2151270.5/33

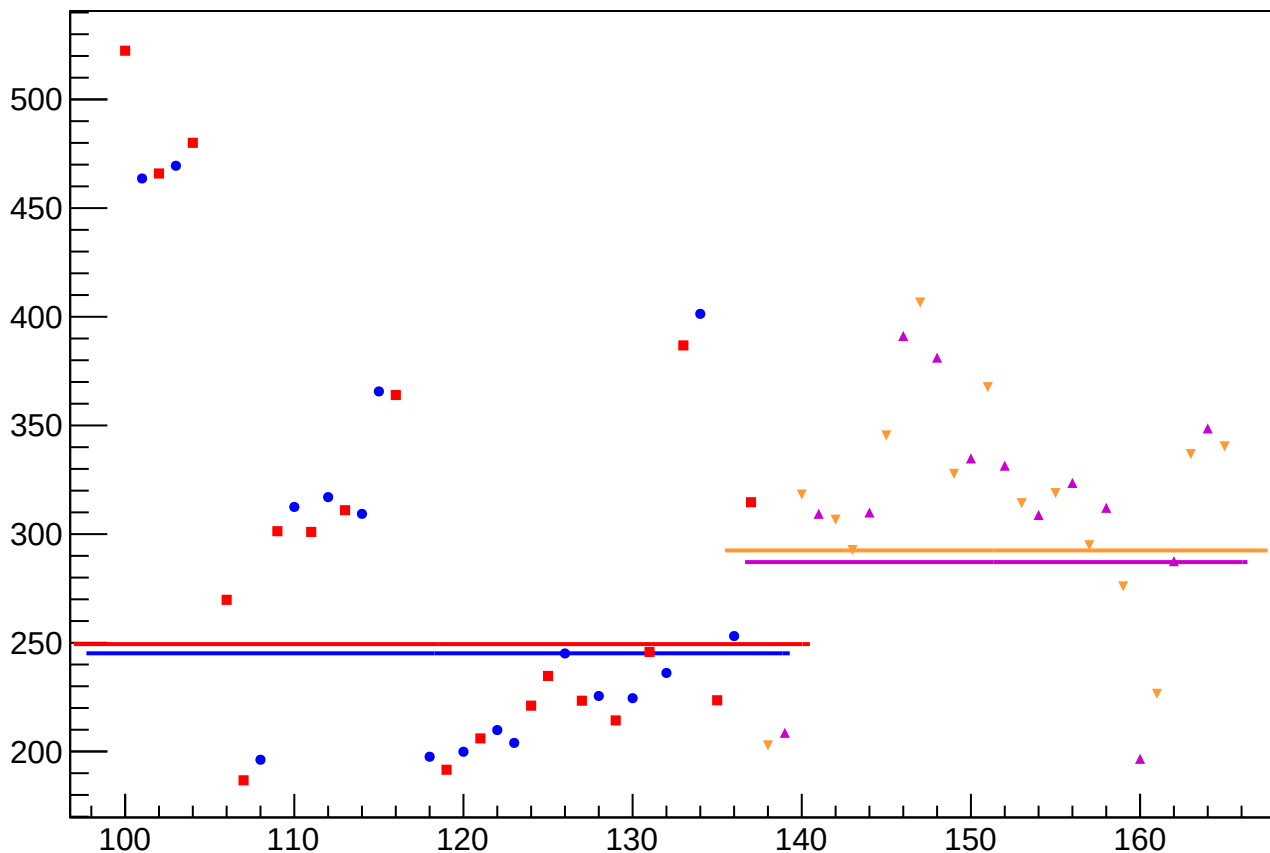
All: 181.255+/-0.023 χ^2/NDF : 3852936.3/63

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2 /NDF: 822682996.3/16	Left: 138438.177 $\pm$ 0.065	χ^2 /NDF: 2496053000.2/2
Left Out: 138394.500 $\pm$ 0.091	χ^2 /NDF: 1394986735.6/14	Right: 140758.088 $\pm$ 0.070	χ^2 /NDF: 1664679717.2/2
Right Out: 140678.513 $\pm$ 0.099	χ^2 /NDF: 840695274.4/18	In: 139576.457 $\pm$ 0.068	χ^2 /NDF: 2220593588.9/29
Left In: 138483.924 $\pm$ 0.093	χ^2 /NDF: 1100593580.4/12	Out: 139438.122 $\pm$ 0.067	χ^2 /NDF: 2524155214.9/3
		All: 139506.134 $\pm$ 0.048	χ^2 /NDF: 47468454.4/1

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 292.492 $\pm$ 0.064 χ^2 /NDF: 731179.9/14

Right Out: 249.397 $\pm$ 0.070 χ^2 /NDF: 1009731.2/18

Left In: 287.134 $\pm$ 0.066 χ^2 /NDF: 872474.3/12

Left: 289.875 $\pm$ 0.046 χ^2 /NDF: 1607047.0/27

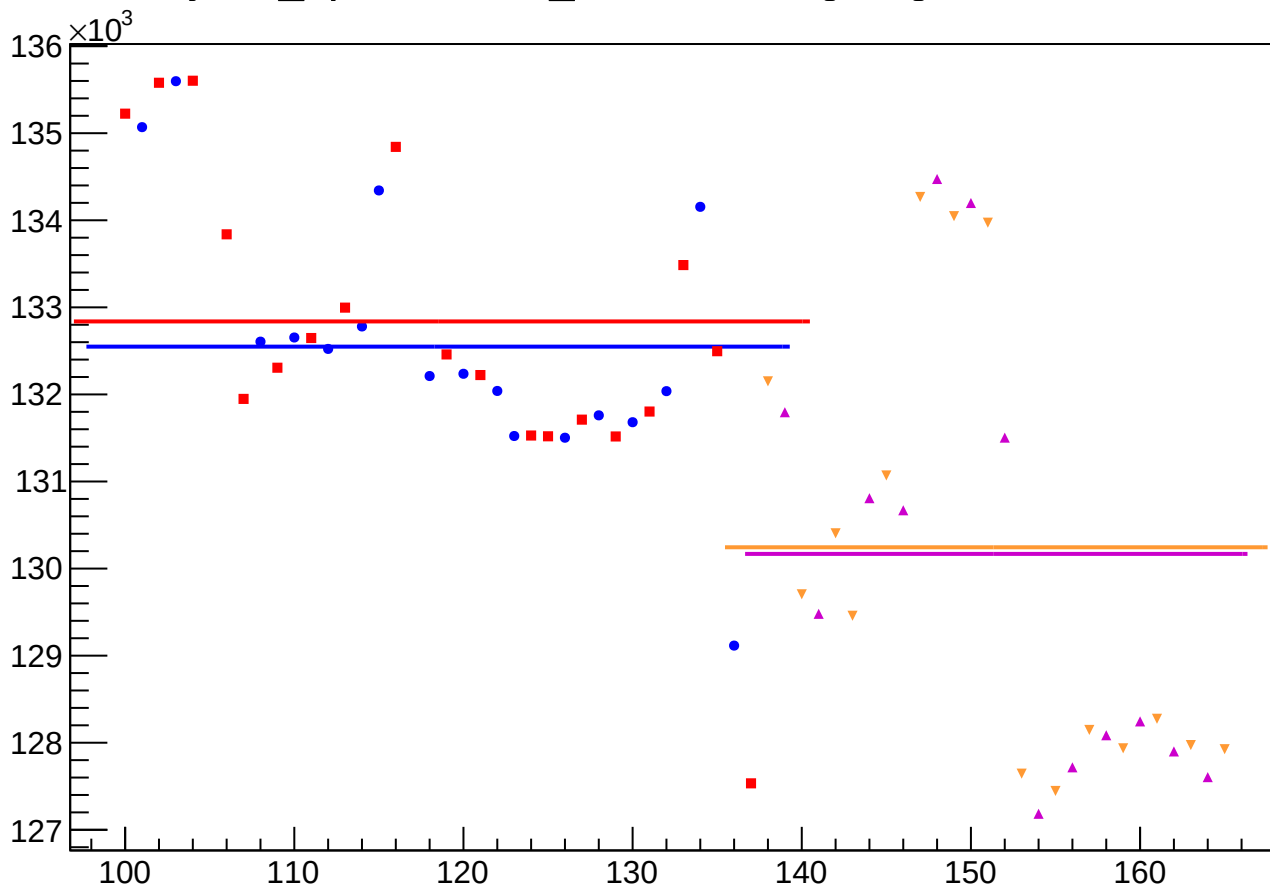
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 267.663 $\pm$ 0.048 χ^2 /NDF: 1930844.5/29

Out: 272.801 $\pm$ 0.047 χ^2 /NDF: 1946304.7/33

All: 270.275 $\pm$ 0.034 χ^2 /NDF: 3882933.3/63

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119

χ^2 /NDF: 161115079.9/16

Left Out: 130244.591 $\pm$ 0.080

χ^2 /NDF: 653285627.4/14

Right Out: 132838.294 $\pm$ 0.107

χ^2 /NDF: 149611447.6/18

Left In: 130168.494 $\pm$ 0.086

χ^2 /NDF: 535277874.6/12

Left: 130209.313 $\pm$ 0.058

χ^2 /NDF: 1188986099.3/2

Right: 132709.226 $\pm$ 0.080

χ^2 /NDF: 313982981.1/3

In: 130978.525 $\pm$ 0.070

χ^2 /NDF: 958723662.8/29

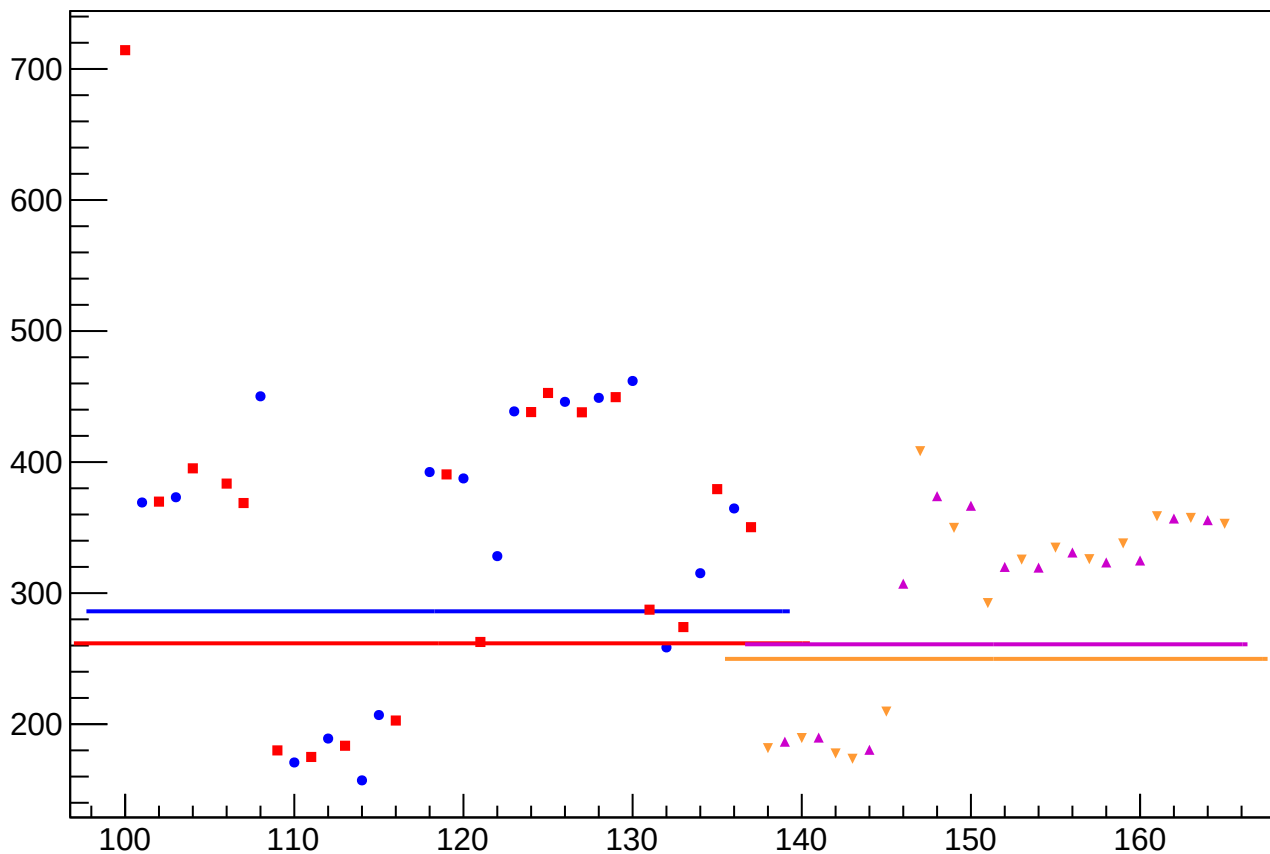
Out: 131169.050 $\pm$ 0.064

χ^2 /NDF: 1180346560.6/3

All: 131081.895 $\pm$ 0.047

χ^2 /NDF: 21431318

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 249.822+/-0.056 χ^2/NDF :1933738.7/14

Right Out: 261.686+/-0.076 χ^2/NDF : 1623174.1/18

Left In: 260.941+/-0.061 χ^2/NDF :1588461.3/12

Left: 254.977+/-0.041 χ^2/NDF : 3540245.3/27

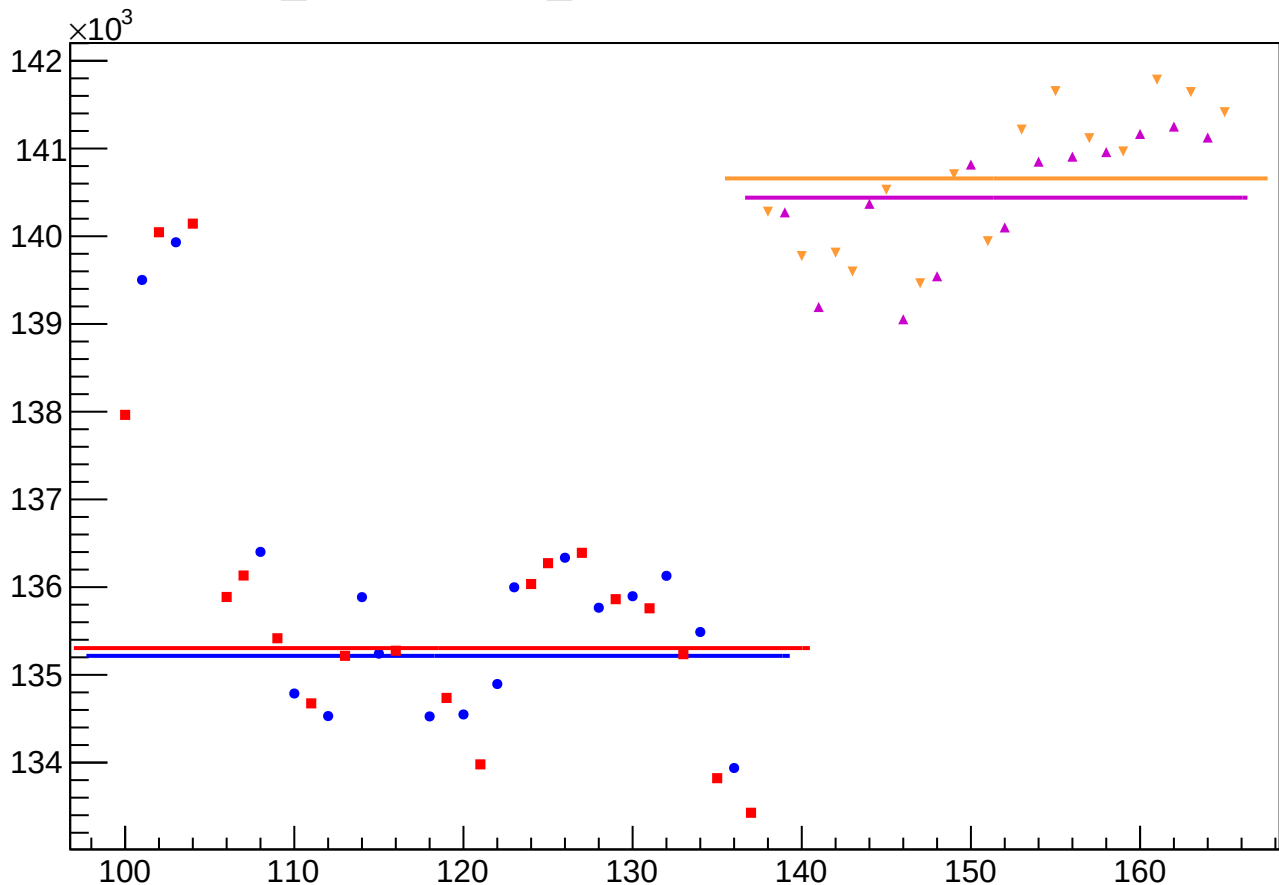
Right: 272.584+/-0.056 χ^2/NDF : 3194872.3/35

In: 269.510+/-0.049 χ^2/NDF :3172440.1/29

Out: 254.051+/-0.045 χ^2/NDF :3572708.3/33

All: 261.122+/-0.033 χ^2/NDF : 6798629.8/63

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054 χ^2 /NDF: 371347707.3/16

Left Out: 140659.154 $\pm$ 0.057 χ^2 /NDF: 176310773.1/14

Right Out: 135305.135 $\pm$ 0.051 χ^2 /NDF: 357636841.6/18

Left In: 140439.858 $\pm$ 0.061 χ^2 /NDF: 129531856.2/12

Left: 140556.046 $\pm$ 0.042 χ^2 /NDF: 312772695.4/27

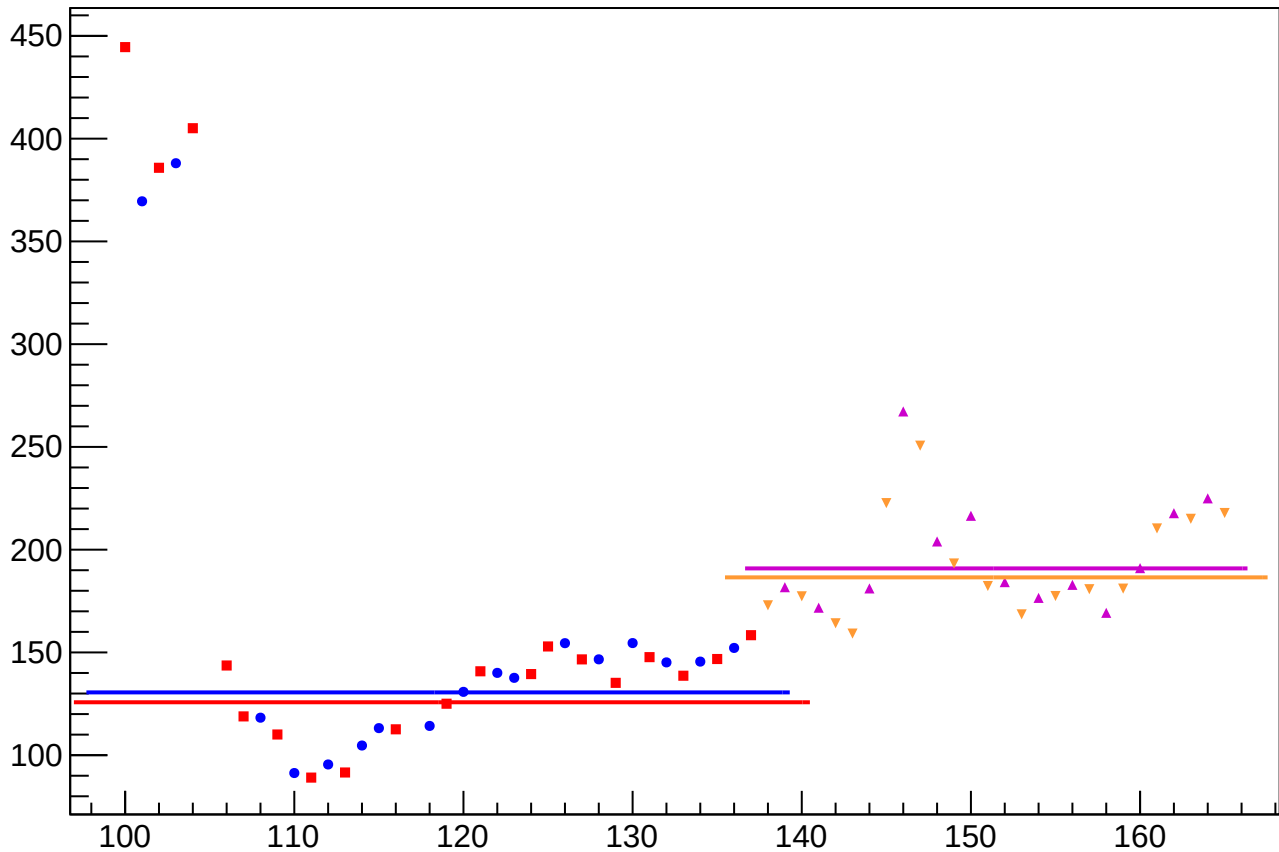
Right: 135263.557 $\pm$ 0.037 χ^2 /NDF: 730392205.8/3

In: 137543.831 $\pm$ 0.040 χ^2 /NDF: 4615109237.3/29

Out: 137687.343 $\pm$ 0.038 χ^2 /NDF: 5410504097.4/3

All: 137619.916 $\pm$ 0.028 χ^2 /NDF: 10032278

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2/NDF : 1373104.9/16

Left Out: 186.521 $\pm$ 0.040 χ^2/NDF : 300194.1/14

Right Out: 125.746 $\pm$ 0.036 χ^2/NDF : 1440002.5/18

Left In: 190.884 $\pm$ 0.043 χ^2/NDF : 271897.4/12

Left: 188.572 $\pm$ 0.029 χ^2/NDF : 577576.4/27

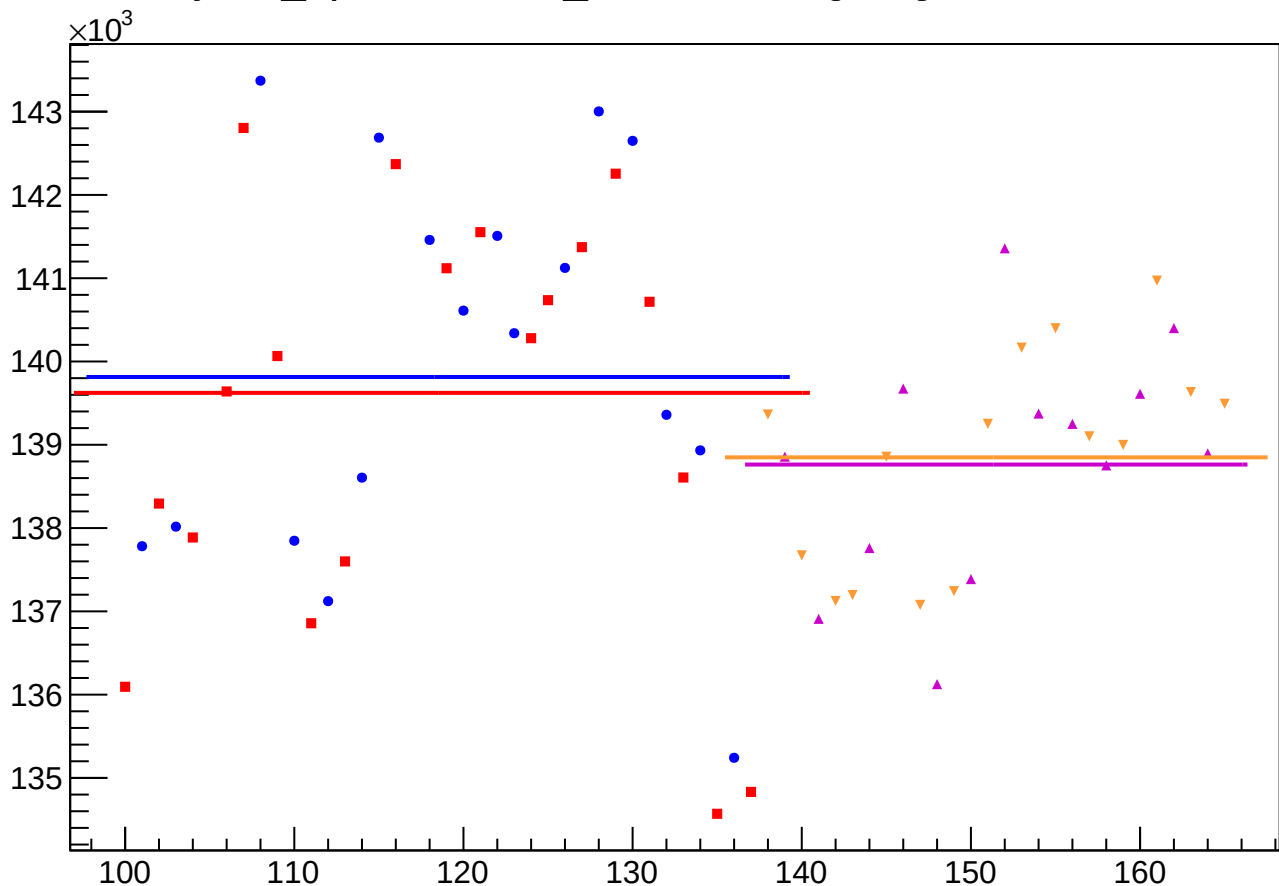
Right: 128.002 $\pm$ 0.026 χ^2/NDF : 2821400.9/35

In: 157.433 $\pm$ 0.029 χ^2/NDF : 2742816.7/29

Out: 152.787 $\pm$ 0.027 χ^2/NDF : 2996921.7/33

All: 154.970 $\pm$ 0.020 χ^2/NDF : 5753708.5/63

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2 /NDF: 1689865533.6/16

Left: 138807.536 $\pm$ 0.042

χ^2 /NDF: 952698015.2/27

Right: 139713.961 $\pm$ 0.043

χ^2 /NDF: 3200544274.5/14

Left Out: 138848.981 $\pm$ 0.059

χ^2 /NDF: 433867978.3/14

In: 139282.284 $\pm$ 0.044

χ^2 /NDF: 2353315497.8/29

Right Out: 139623.387 $\pm$ 0.059

χ^2 /NDF: 1505731109.1/18

Out: 139234.984 $\pm$ 0.042

χ^2 /NDF: 2025948903.1/3

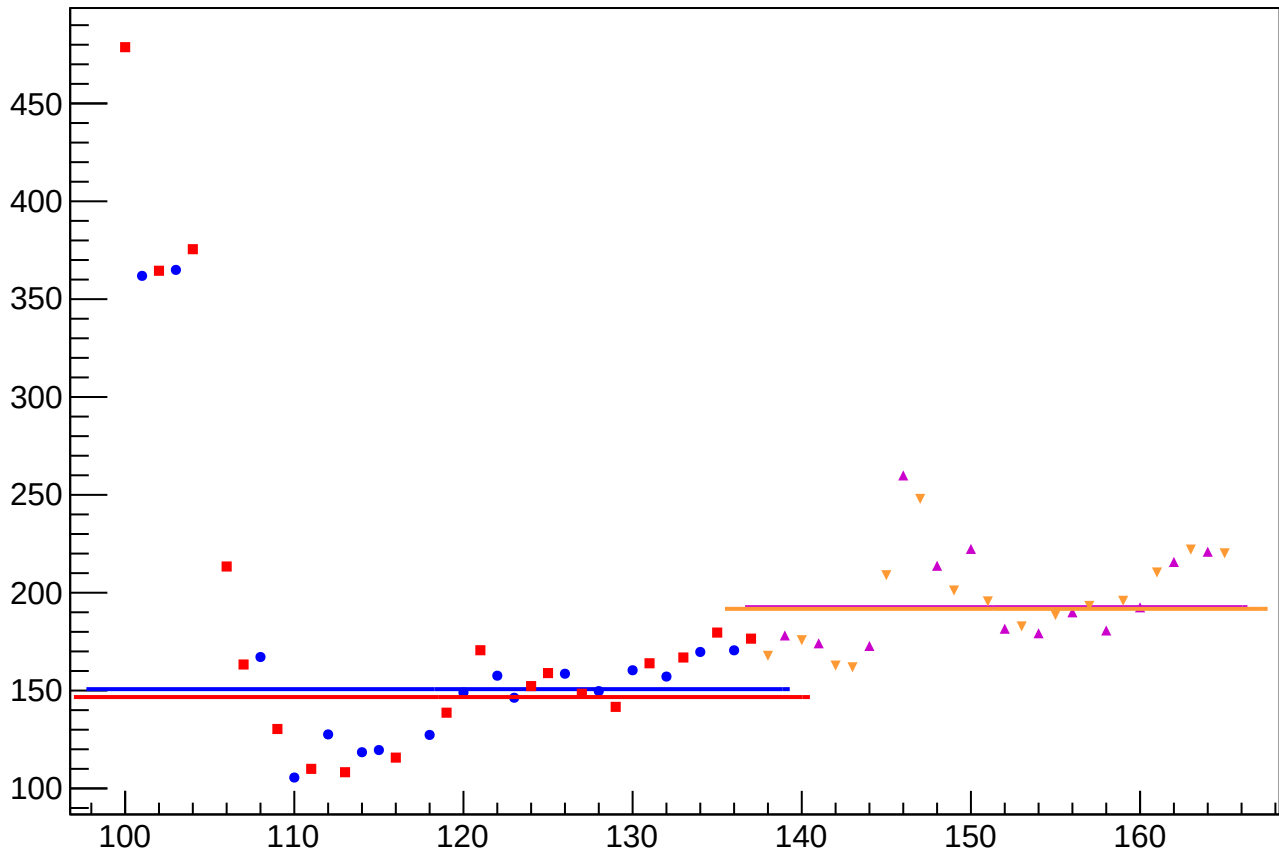
Left In: 138762.644 $\pm$ 0.061

χ^2 /NDF: 517796402.8/12

All: 139257.595 $\pm$ 0.030

χ^2 /NDF: 437988036.1/10

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733+/-0.044 χ^2/NDF : 1050071.6/16

Left Out: 191.769+/-0.042 χ^2/NDF :268343.9/14

Right Out: 146.686+/-0.042 χ^2/NDF : 1203106.6/18

Left In: 192.621+/-0.043 χ^2/NDF :255957.3/12

Left: 192.178+/-0.030 χ^2/NDF : 524502.4/27

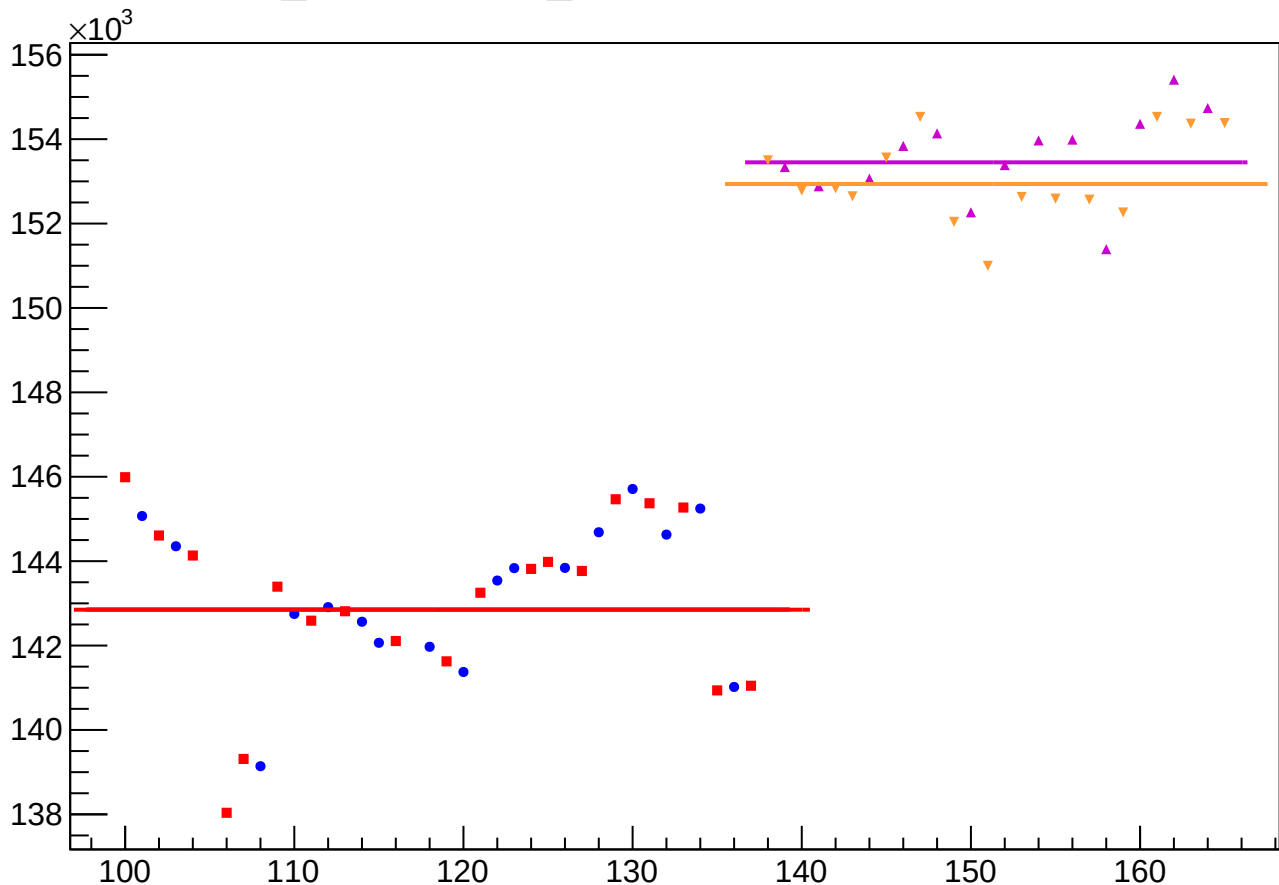
Right: 148.612+/-0.030 χ^2/NDF : 2257655.3/35

In: 171.911+/-0.031 χ^2/NDF :1768728.1/29

Out: 169.297+/-0.029 χ^2/NDF :2056754.1/33

All: 170.547+/-0.021 χ^2/NDF : 3829243.8/63

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065 χ^2 /NDF: 740367386.5/16

Left Out: 152936.526 $\pm$ 0.060 χ^2 /NDF: 252042294.8/14

Right Out: 142849.362 $\pm$ 0.060 χ^2 /NDF: 850066807.5/18

Left In: 153450.933 $\pm$ 0.062 χ^2 /NDF: 256485026.9/12

Left: 153183.886 $\pm$ 0.043 χ^2 /NDF: 544376737.3/27

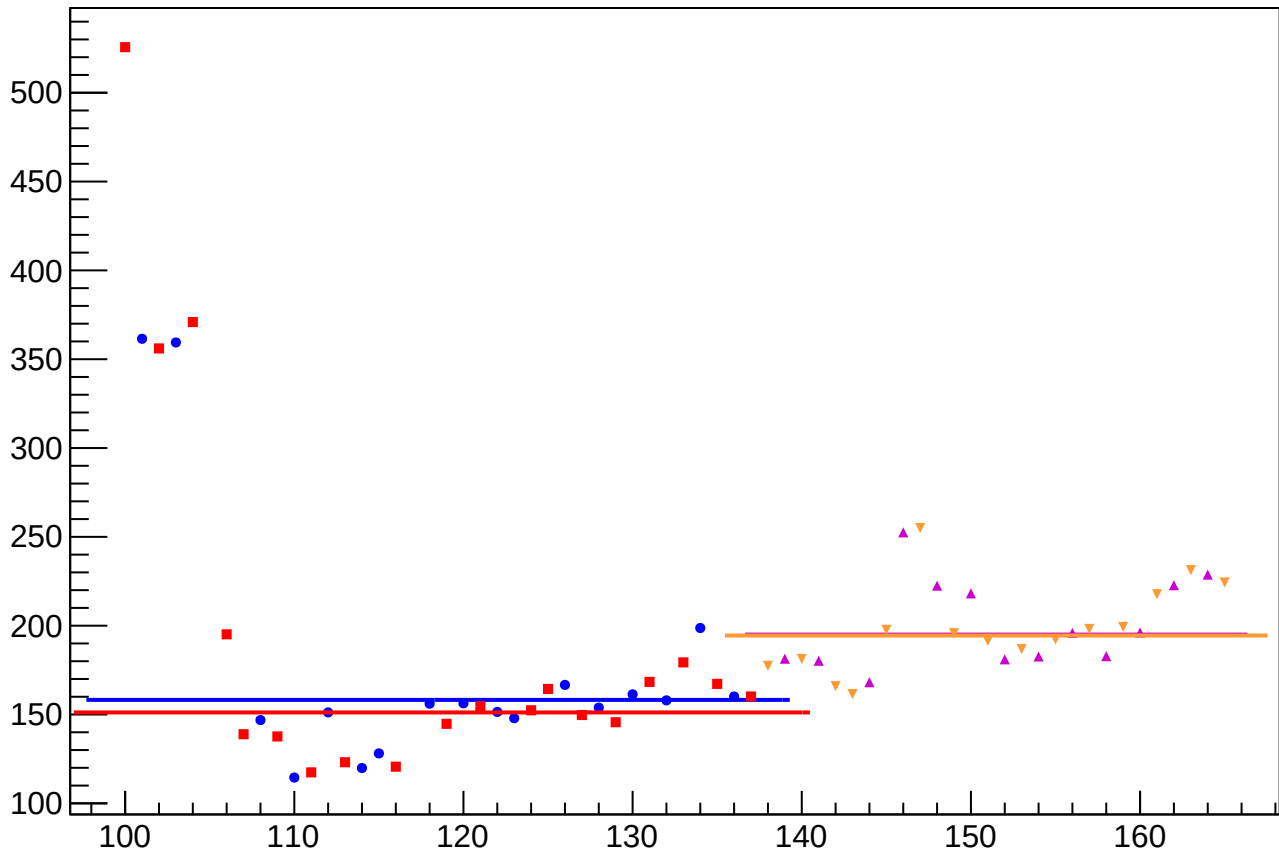
Right: 142851.648 $\pm$ 0.044 χ^2 /NDF: 1590437268.8/30

In: 148383.597 $\pm$ 0.045 χ^2 /NDF: 15010037727.7/27

Out: 147961.827 $\pm$ 0.042 χ^2 /NDF: 15239953908.9/30

All: 148161.578 $\pm$ 0.031 χ^2 /NDF: 302968243.0/57

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233 $\pm$ 0.046 χ^2 /NDF: 883513.4/16

Left Out: 194.466 $\pm$ 0.042 χ^2 /NDF: 266915.0/14

Right Out: 151.174 $\pm$ 0.043 χ^2 /NDF: 1003301.6/18

Left In: 194.987 $\pm$ 0.044 χ^2 /NDF: 258297.3/12

Left: 194.717 $\pm$ 0.030 χ^2 /NDF: 525286.0/27

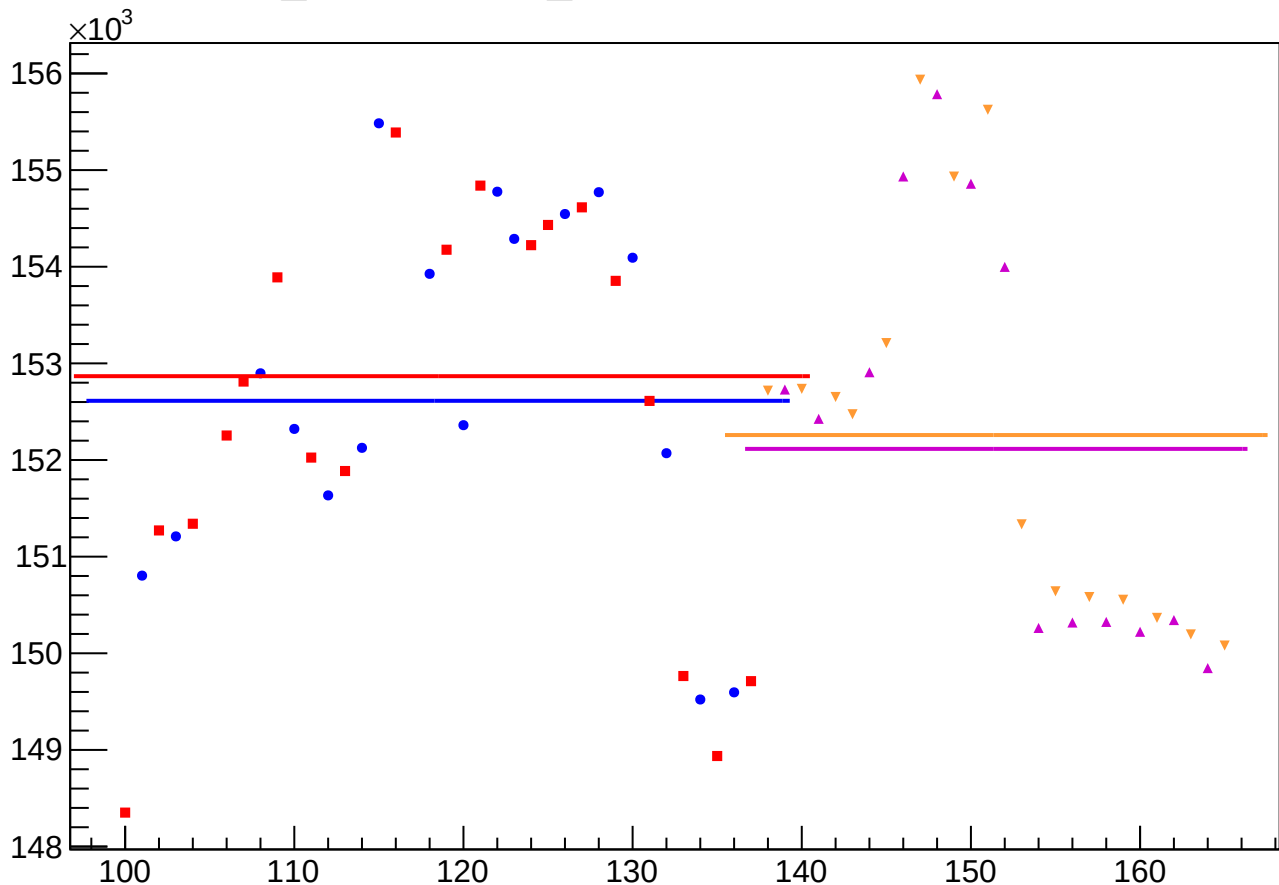
Right: 154.463 $\pm$ 0.031 χ^2 /NDF: 1899543.0/35

In: 177.411 $\pm$ 0.032 χ^2 /NDF: 1478987.0/29

Out: 173.116 $\pm$ 0.030 χ^2 /NDF: 1791033.7/33

All: 175.150 $\pm$ 0.022 χ^2 /NDF: 3279736.7/63

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16

Left Out: 152258.325 $\pm$ 0.060 χ^2 /NDF: 908503255.1/14

Right Out: 152867.453 $\pm$ 0.066 χ^2 /NDF: 719075986.4/18

Left In: 152115.136 $\pm$ 0.062 χ^2 /NDF: 945906551.9/12

Left: 152189.563 $\pm$ 0.043 χ^2 /NDF: 1857180767.6/20

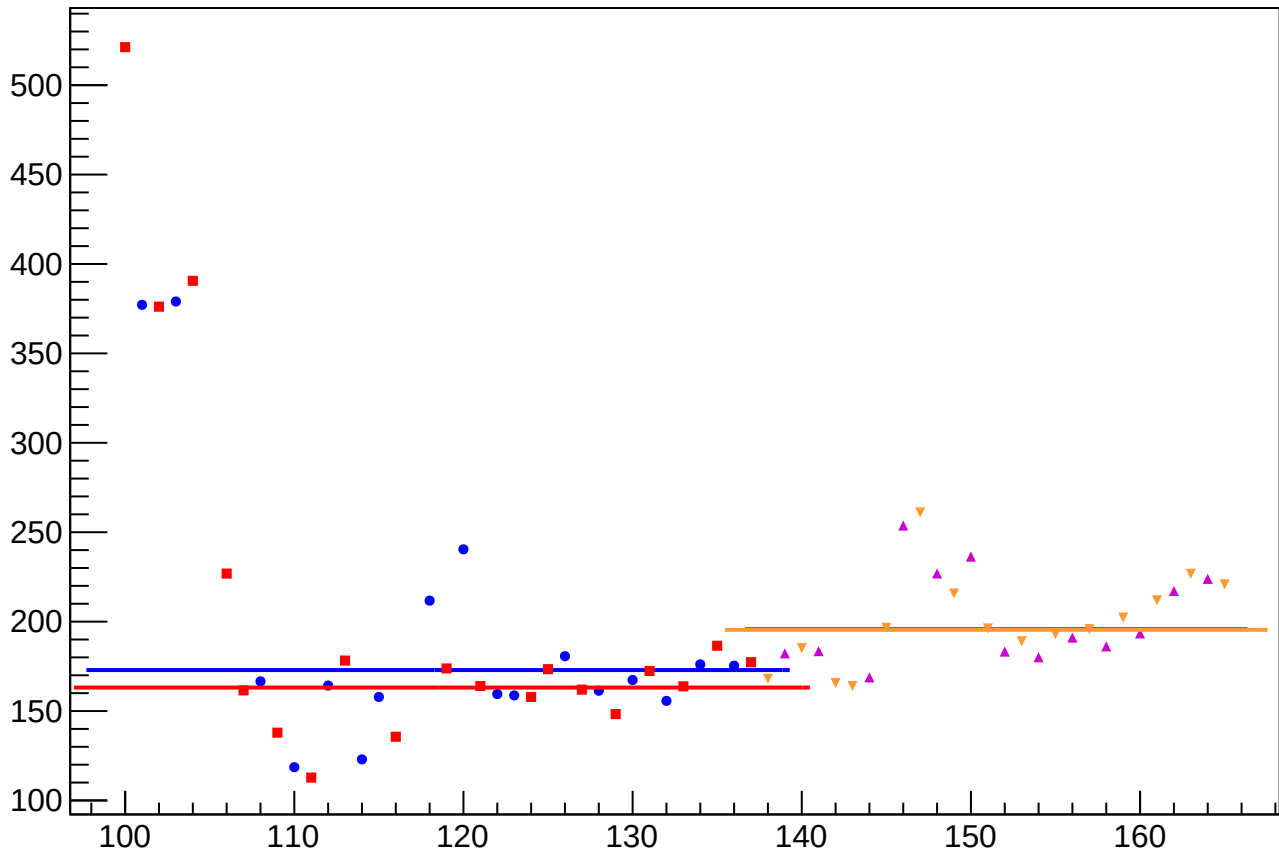
Right: 152750.957 $\pm$ 0.049 χ^2 /NDF: 1347263895.4/16

In: 152326.446 $\pm$ 0.047 χ^2 /NDF: 1594654329.9/20

Out: 152530.992 $\pm$ 0.044 χ^2 /NDF: 1674321865.7/30

All: 152434.832 $\pm$ 0.032 χ^2 /NDF: 327899760.0/66

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 195.426+/-0.042 χ^2/NDF : 286583.8/14

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 195.836+/-0.044 χ^2/NDF : 278507.7/12

Left: 195.623+/-0.030 χ^2/NDF : 565137.1/27

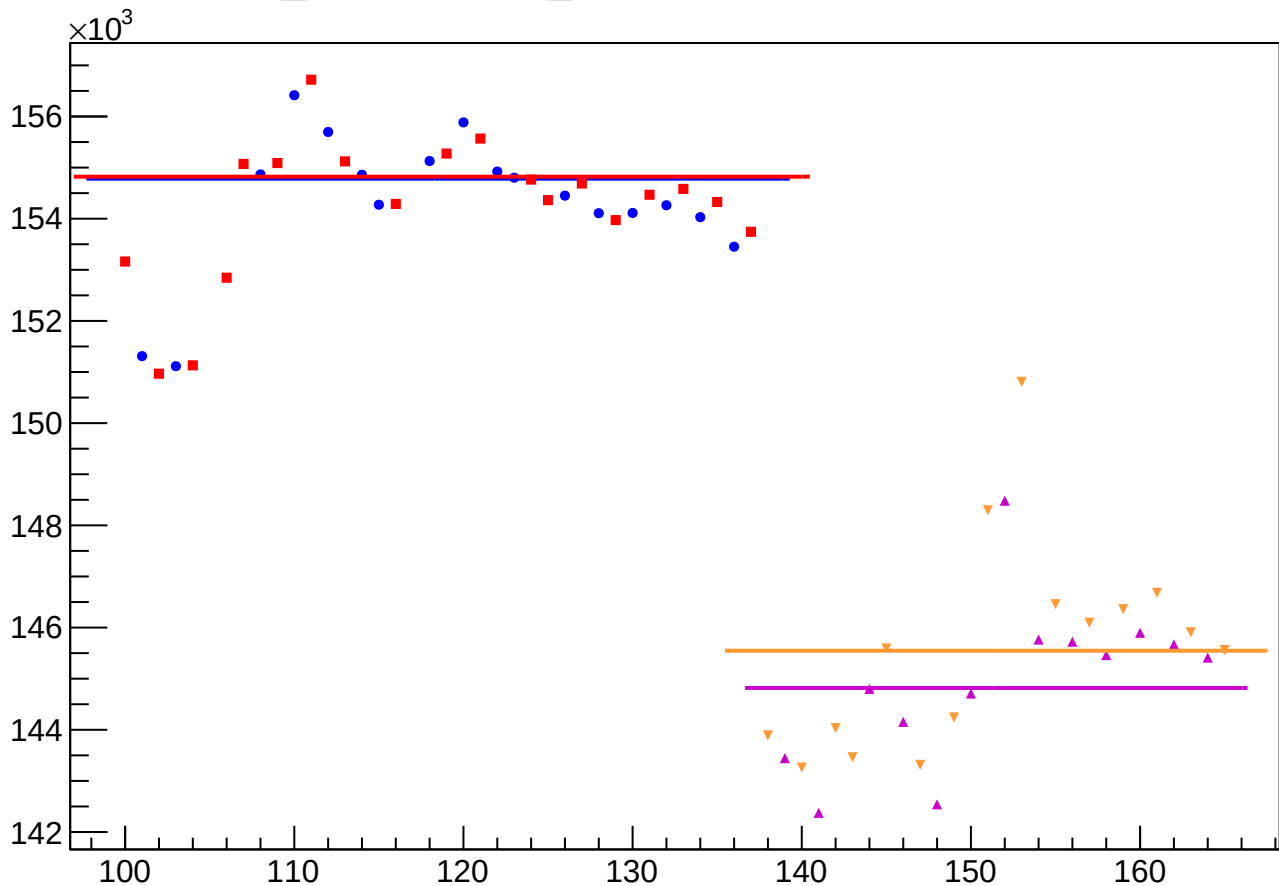
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 186.102+/-0.033 χ^2/NDF : 1336462.4/29

Out: 180.973+/-0.031 χ^2/NDF : 1582996.4/33

All: 183.384+/-0.023 χ^2/NDF : 2932063.5/63

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944+/-0.065

χ^2/NDF : 265581398.0/16

Left Out: 145547.161+/-0.055

χ^2/NDF : 1481720052.6/14

Right Out: 154822.113+/-0.061

χ^2/NDF : 293850525.9/18

Left In: 144818.601+/-0.058

χ^2/NDF : 812165158.7/12

Left: 145199.530+/-0.040

χ^2/NDF : 2376790683.6/2

Right: 154804.381+/-0.045

χ^2/NDF : 559614489.4/3

In: 149196.185+/-0.043

χ^2/NDF : 14109417148.9/2

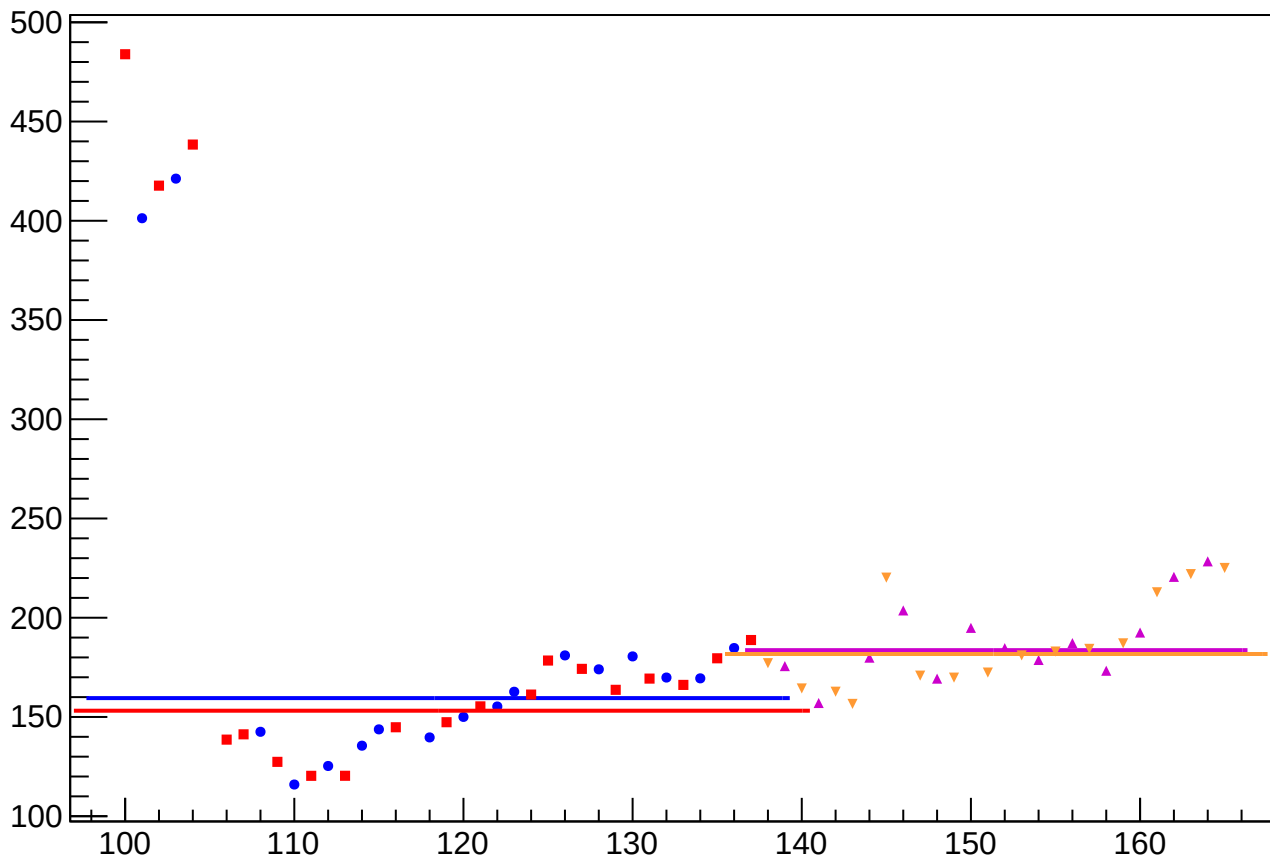
Out: 149737.233+/-0.041

χ^2/NDF : 14496882974.3/2

All: 149482.110+/-0.030

χ^2/NDF : 286887168.7/1

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2 /NDF: 1131844.5/16

Left Out: 181.725 $\pm$ 0.039 χ^2 /NDF:255917.7/14

Right Out: 153.153 $\pm$ 0.043 χ^2 /NDF: 1173739.7/18

Left In: 183.667 $\pm$ 0.041 χ^2 /NDF:182059.3/12

Left: 182.652 $\pm$ 0.028 χ^2 /NDF: 439155.4/27

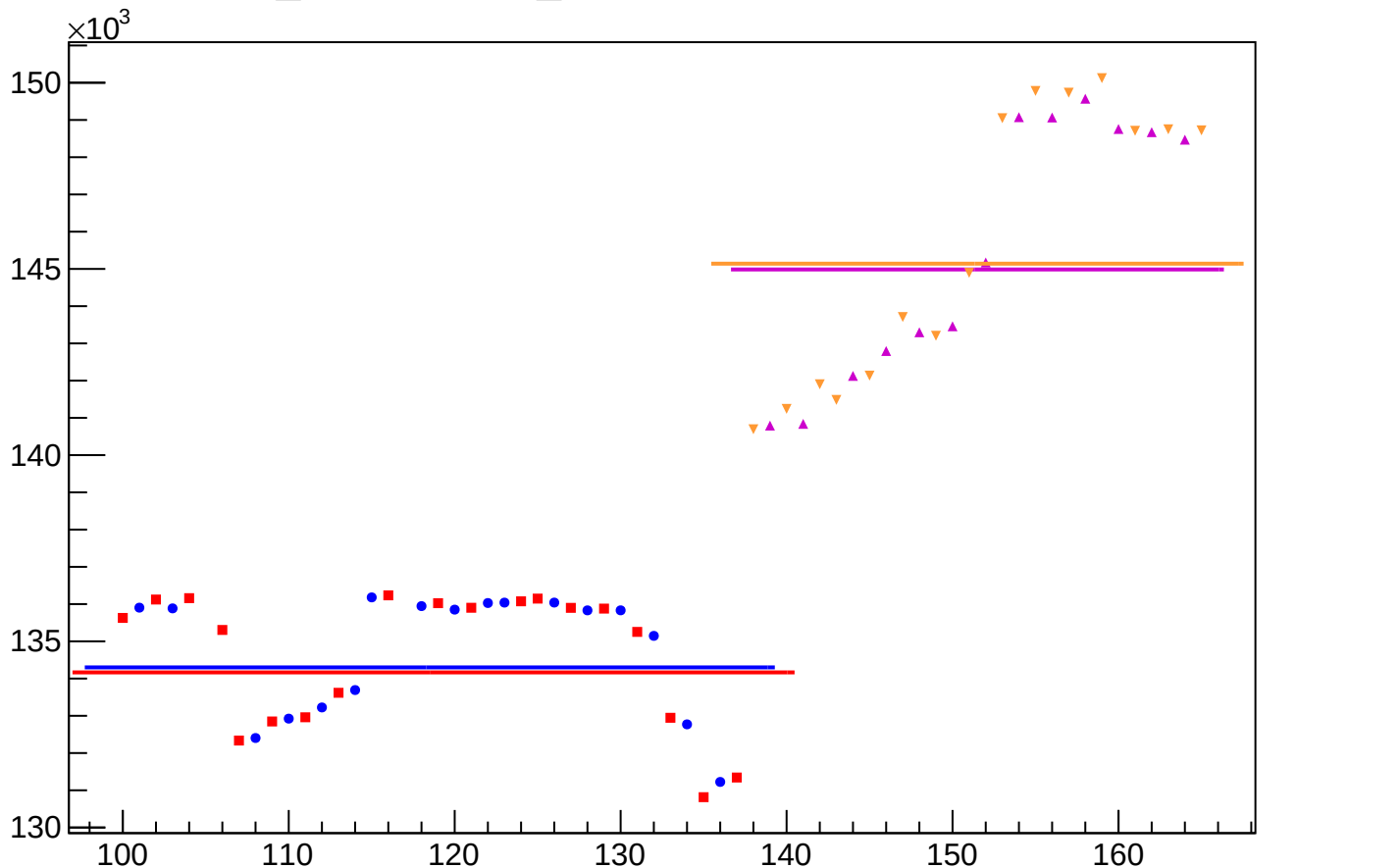
Right: 156.104 $\pm$ 0.032 χ^2 /NDF: 2315690.5/35

In: 173.053 $\pm$ 0.031 χ^2 /NDF:1467141.5/29

Out: 168.817 $\pm$ 0.029 χ^2 /NDF:1671094.6/33

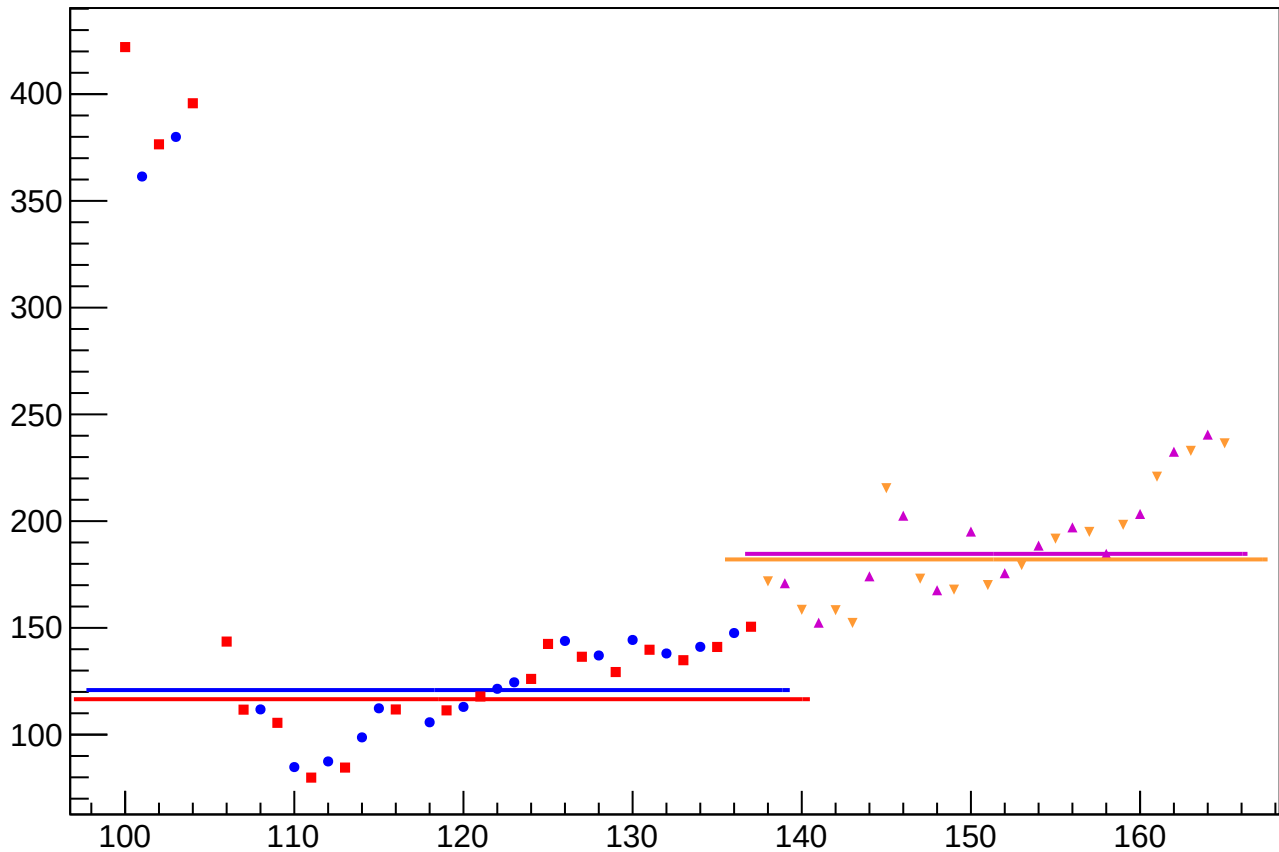
All: 170.814 $\pm$ 0.021 χ^2 /NDF: 3148336.1/63

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025+/-0.050	χ^2/NDF : 1149581803.2/16	Left: 145067.136+/-0.040	χ^2/NDF : 7376303190.0/2
Left Out: 145141.142+/-0.056	χ^2/NDF : 4086040074.4/14	Right: 134228.768+/-0.035	χ^2/NDF : 2364832007.2/14
Right Out: 134165.615+/-0.047	χ^2/NDF : 1211471052.4/18	In: 138858.432+/-0.038	χ^2/NDF : 23655494958.3/2
Left In: 144985.423+/-0.058	χ^2/NDF : 3286527762.4/12	Out: 138789.707+/-0.036	χ^2/NDF : 27892816983.7/12
		All: 138822.155+/-0.026	χ^2/NDF : 515500275.0/12

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 182.062 $\pm$ 0.039 χ^2 /NDF: 370824.5/14

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 184.672 $\pm$ 0.041 χ^2 /NDF: 274293.0/12

Left: 183.302 $\pm$ 0.028 χ^2 /NDF: 647216.8/27

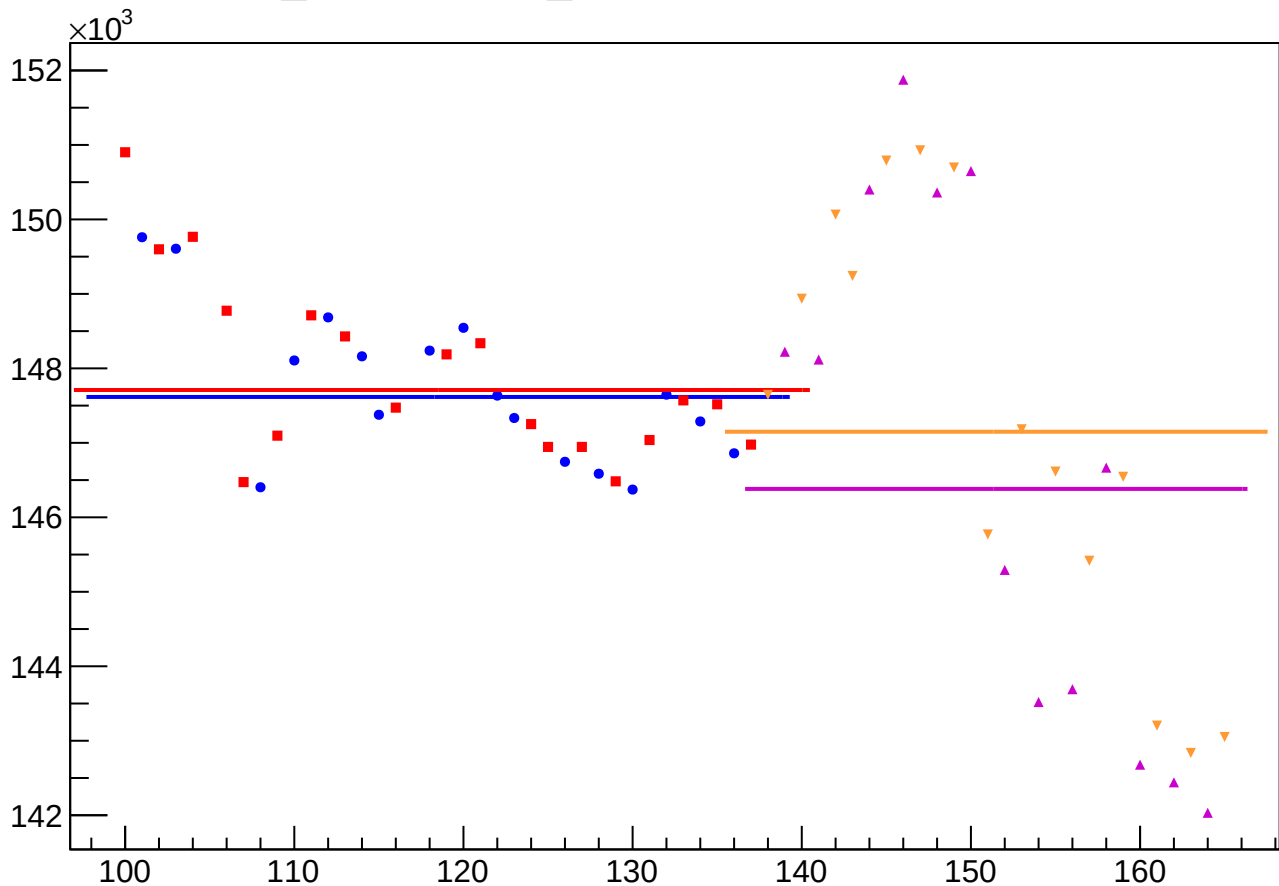
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 148.089 $\pm$ 0.027 χ^2 /NDF: 3108348.7/29

Out: 144.177 $\pm$ 0.025 χ^2 /NDF: 3520007.8/33

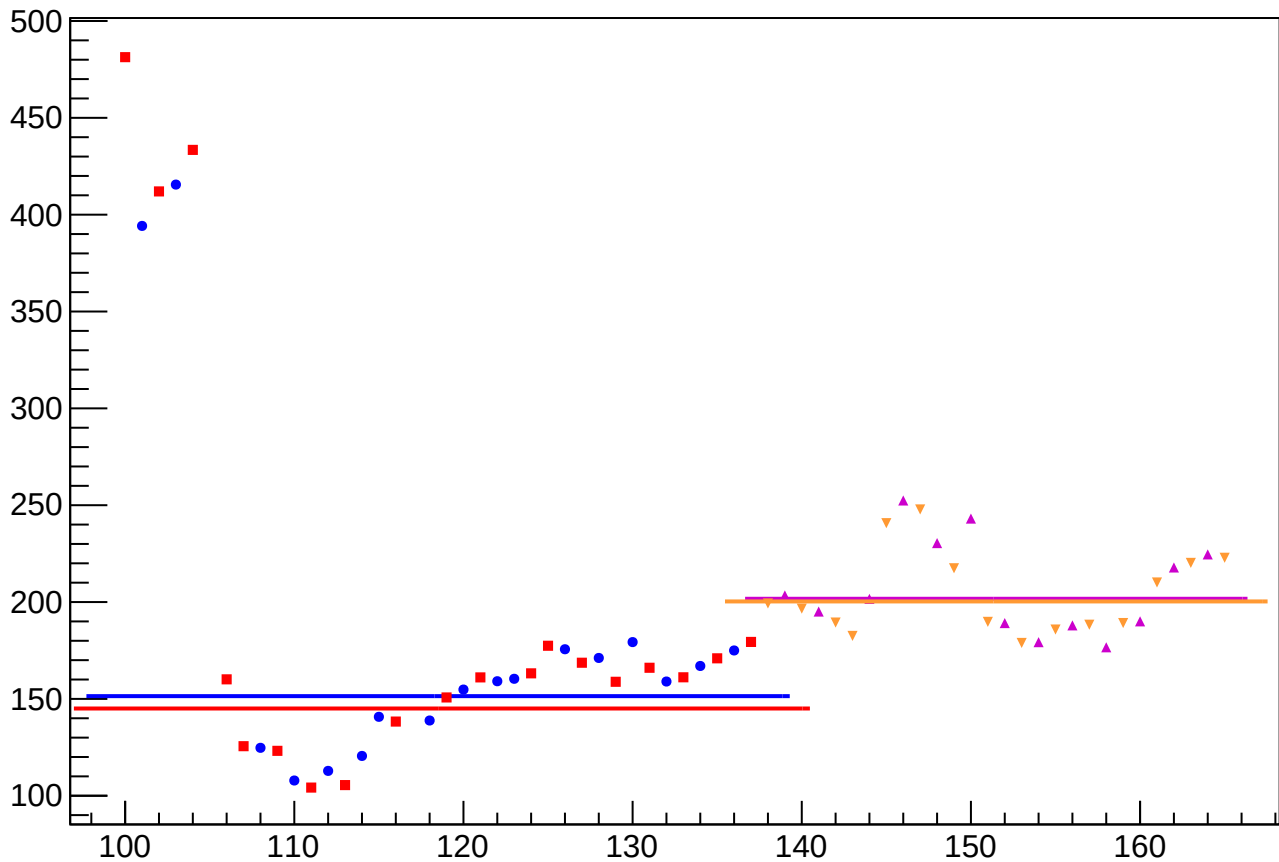
All: 146.024 $\pm$ 0.019 χ^2 /NDF: 6639479.6/63

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062	χ^2 /NDF: 199263428.7/16	Left: 146782.245 $\pm$ 0.044	χ^2 /NDF: 4270062637.9/2
Left Out: 147149.247 $\pm$ 0.061	χ^2 /NDF: 1697227401.6/14	Right: 147666.153 $\pm$ 0.043	χ^2 /NDF: 404368550.3/3
Right Out: 147709.723 $\pm$ 0.058	χ^2 /NDF: 203906685.9/18	In: 147010.462 $\pm$ 0.045	χ^2 /NDF: 2887750213.7/29
Left In: 146381.467 $\pm$ 0.064	χ^2 /NDF: 2496940262.5/12	Out: 147441.727 $\pm$ 0.042	χ^2 /NDF: 1945287204.3/3
		All: 147238.335 $\pm$ 0.031	χ^2 /NDF: 488244743

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 200.320+/-0.043 χ^2/NDF : 201831.4/14

Right Out: 145.039+/-0.041 χ^2/NDF : 1375972.0/18

Left In: 201.692+/-0.045 χ^2/NDF : 240839.6/12

Left: 200.976+/-0.031 χ^2/NDF : 443155.9/27

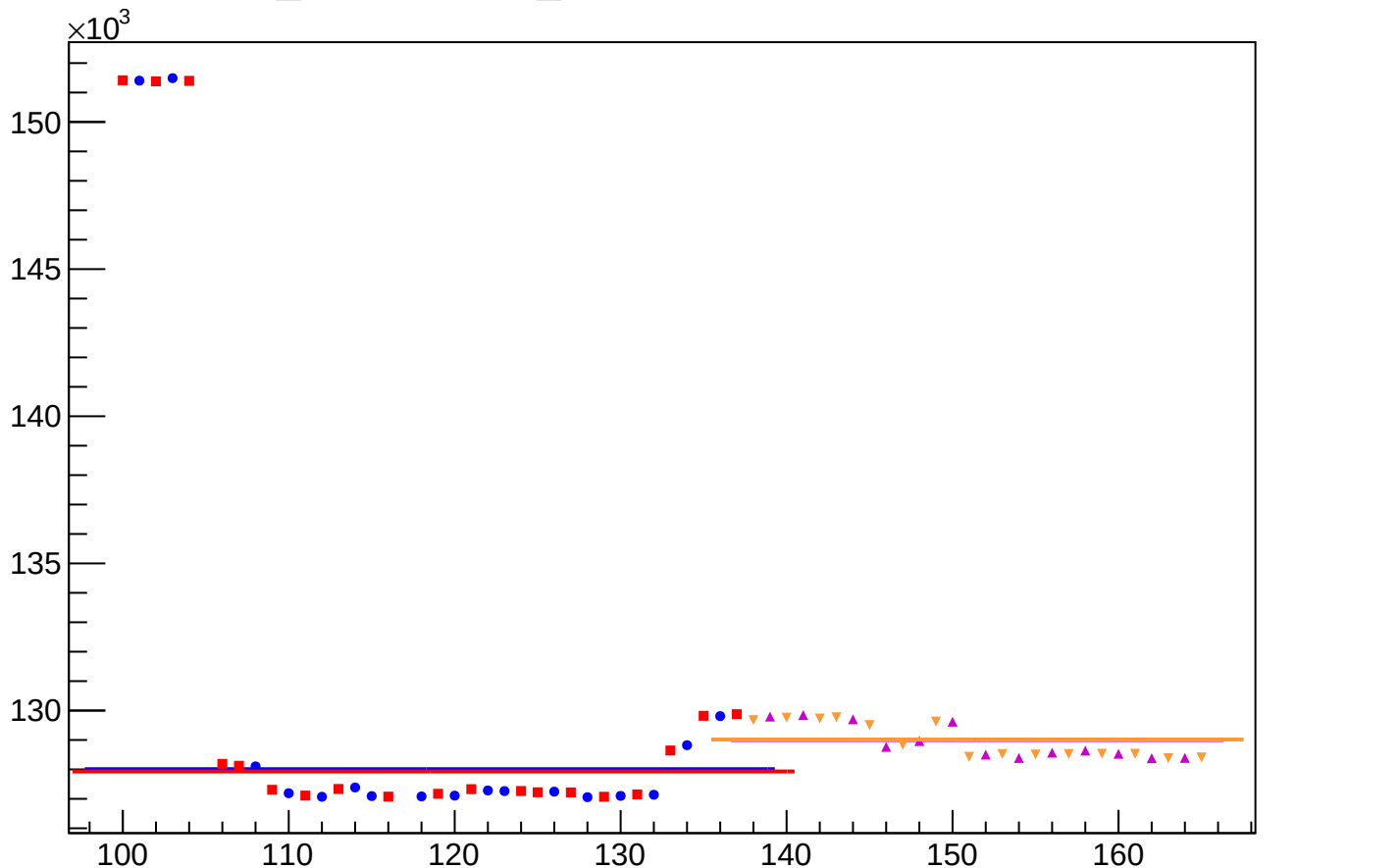
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 176.083+/-0.032 χ^2/NDF : 2133681.7/29

Out: 171.472+/-0.030 χ^2/NDF : 2436848.6/33

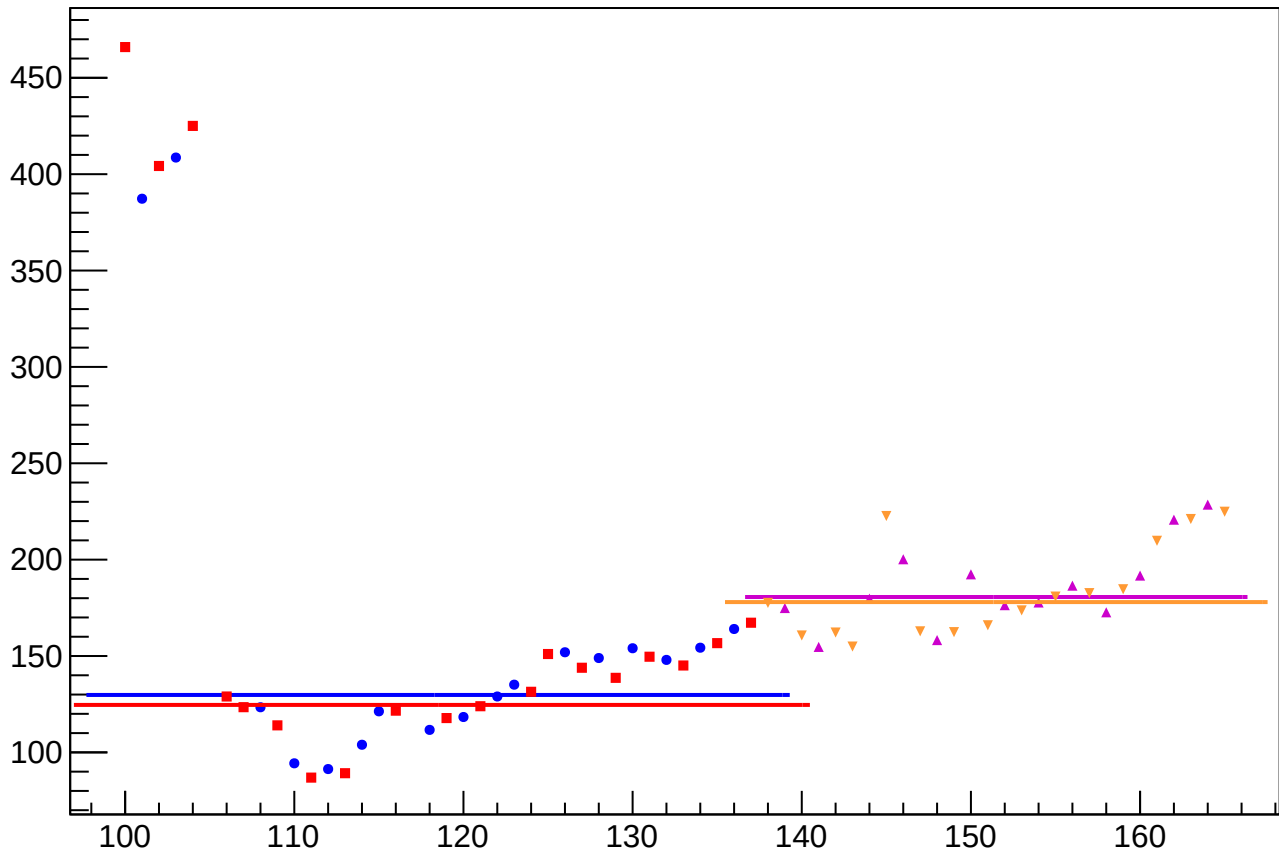
All: 173.647+/-0.022 χ^2/NDF : 4581828.8/63

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364+/-0.054	χ^2/NDF : 4319785674.5/16	Left: 129006.946+/-0.039	χ^2/NDF : 215177785.8/27
Left Out: 129014.865+/-0.054	χ^2/NDF : 114332311.7/14	Right: 127965.988+/-0.037	χ^2/NDF : 8089052681.4/29
Right Out: 127930.136+/-0.050	χ^2/NDF : 3768176193.0/18	In: 128477.488+/-0.039	χ^2/NDF : 4579598227.6/29
Left In: 128998.178+/-0.057	χ^2/NDF : 100800378.9/12	Out: 128433.641+/-0.037	χ^2/NDF : 4097681136.9/30
		All: 128454.208+/-0.027	χ^2/NDF : 867794244.0/100

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 177.982 $\pm$ 0.038 χ^2 /NDF:300911.8/14

Right Out: 124.625 $\pm$ 0.036 χ^2 /NDF: 1531827.4/18

Left In: 180.616 $\pm$ 0.040 χ^2 /NDF:214477.5/12

Left: 179.232 $\pm$ 0.028 χ^2 /NDF: 517635.6/27

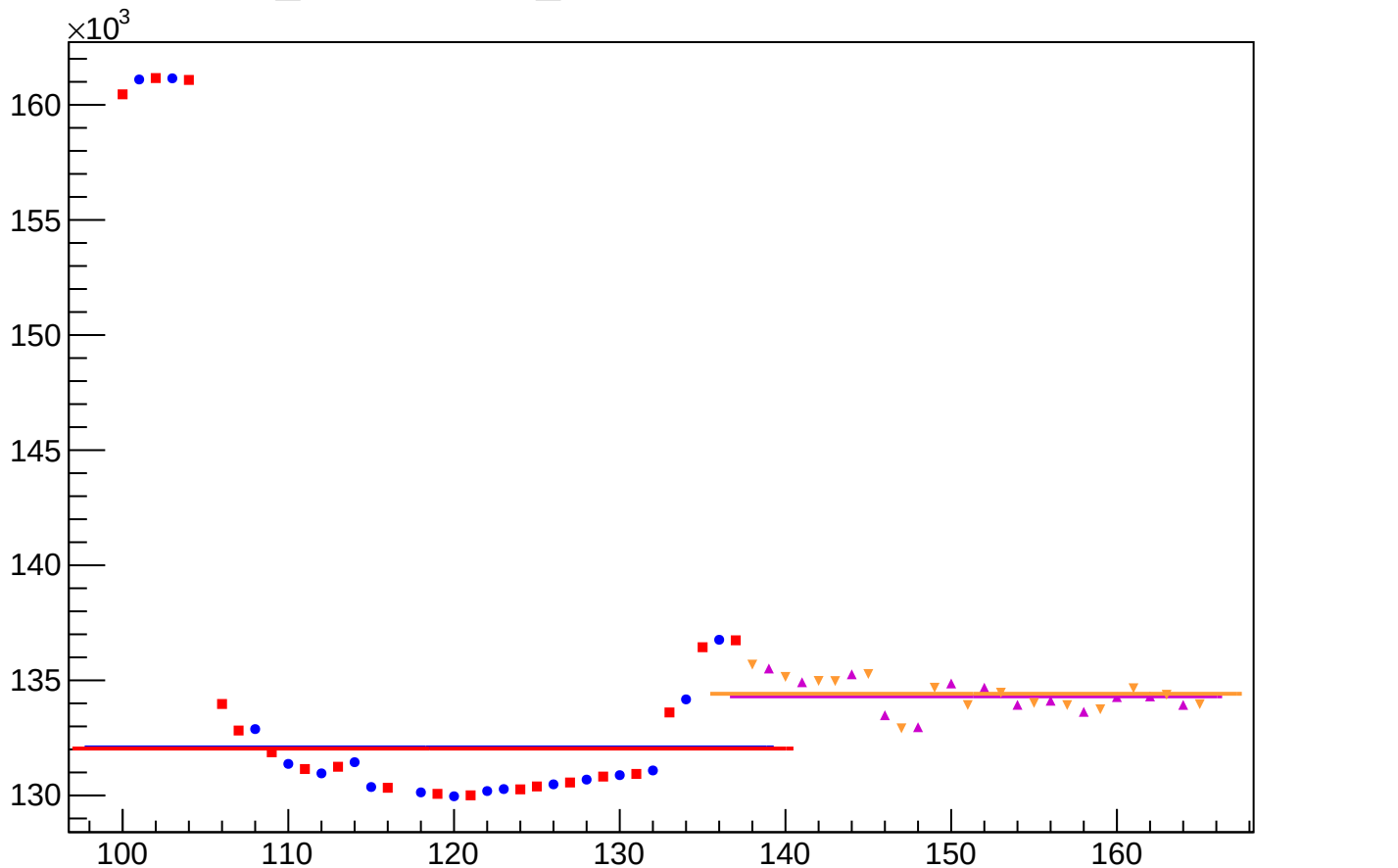
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 153.909 $\pm$ 0.028 χ^2 /NDF:2536408.3/29

Out: 149.392 $\pm$ 0.026 χ^2 /NDF:2874017.8/33

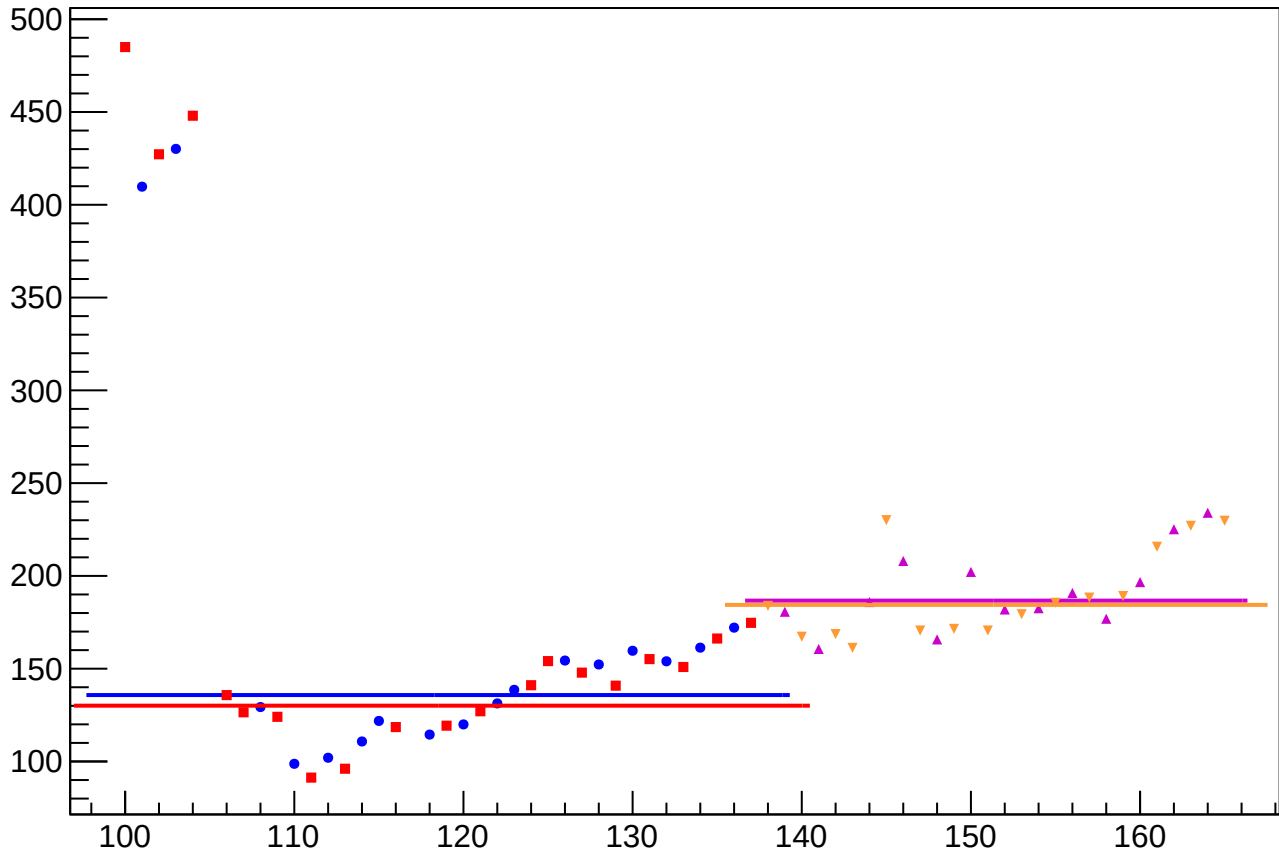
All: 151.511 $\pm$ 0.019 χ^2 /NDF: 5424500.9/63

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057	χ^2 /NDF: 6733230928.7/16	Left: 134364.561 $\pm$ 0.041	χ^2 /NDF: 321721265.8/27
Left Out: 134416.801 $\pm$ 0.056	χ^2 /NDF: 162829776.4/14	Right: 132060.364 $\pm$ 0.038	χ^2 /NDF: 12615754245.0/16
Right Out: 132037.539 $\pm$ 0.053	χ^2 /NDF: 5882115872.9/18	In: 133151.940 $\pm$ 0.041	χ^2 /NDF: 7630429678.8/29
Left In: 134306.959 $\pm$ 0.059	χ^2 /NDF: 157065309.4/12	Out: 133150.001 $\pm$ 0.038	χ^2 /NDF: 7004168327.8/30
		All: 133150.911 $\pm$ 0.028	χ^2 /NDF: 146345992.0/100

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2/NDF : 1441904.9/16

Left Out: 184.379 $\pm$ 0.040 χ^2/NDF : 274363.0/14

Right Out: 130.070 $\pm$ 0.037 χ^2/NDF : 1503997.6/18

Left In: 186.685 $\pm$ 0.042 χ^2/NDF : 200886.9/12

Left: 185.476 $\pm$ 0.029 χ^2/NDF : 476860.1/27

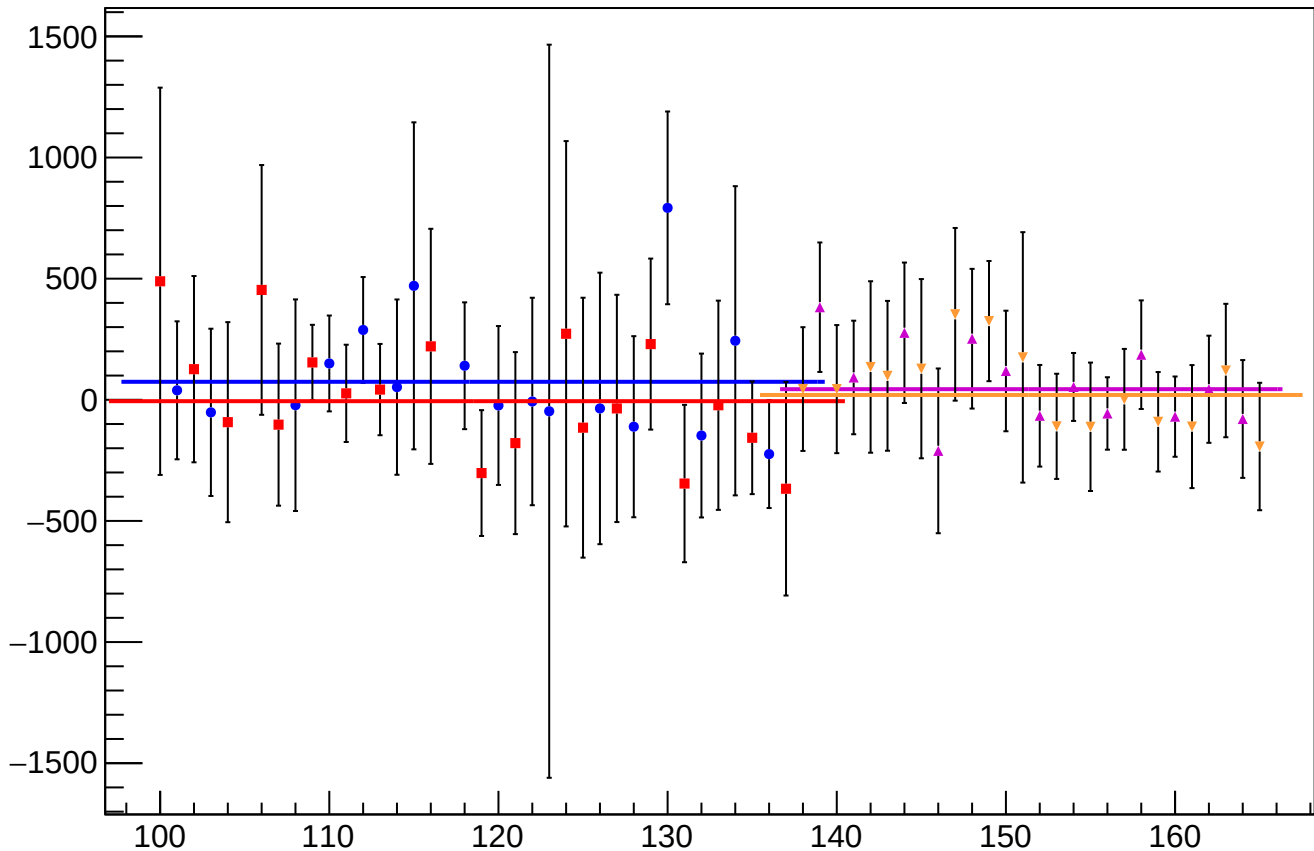
Right: 132.723 $\pm$ 0.027 χ^2/NDF : 2956918.0/35

In: 160.211 $\pm$ 0.029 χ^2/NDF : 2420499.7/29

Out: 155.463 $\pm$ 0.027 χ^2/NDF : 2777933.3/33

All: 157.690 $\pm$ 0.020 χ^2/NDF : 5212831.3/63

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 $\pm$ 79.018 χ^2 /NDF: 7.7/16

Left Out: 19.866 $\pm$ 69.227 χ^2 /NDF:4.7/14

Right Out: -5.739 $\pm$ 70.069 χ^2 /NDF: 7.1/18

Left In: 43.838 $\pm$ 58.423 χ^2 /NDF:5.3/12

Left: 33.867 $\pm$ 44.648 χ^2 /NDF: 10.1/27

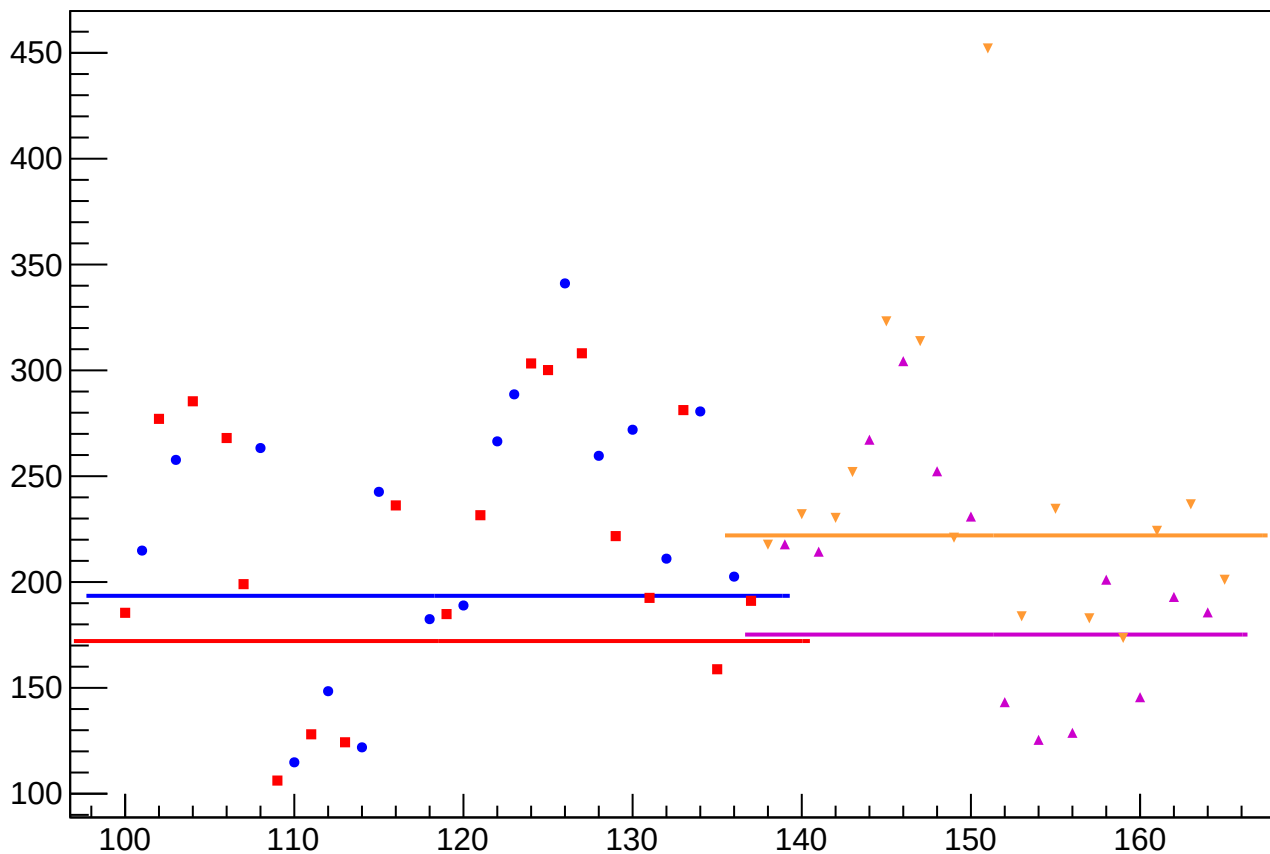
Right: 29.490 $\pm$ 52.426 χ^2 /NDF: 15.4/35

In: 54.603 $\pm$ 46.977 χ^2 /NDF:13.1/29

Out: 7.218 $\pm$ 49.246 χ^2 /NDF:11.9/33

All: 32.027 $\pm$ 33.992 χ^2 /NDF: 25.5/63

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 ± 0.056 χ^2/NDF : 1017195.7/16

Left Out: 222.028 ± 0.049 χ^2/NDF : 968906.3/14

Right Out: 172.122 ± 0.050 χ^2/NDF : 1579840.2/18

Left In: 175.183 ± 0.041 χ^2/NDF : 1438615.6/12

Left: 194.669 ± 0.032 χ^2/NDF : 2942378.1/27

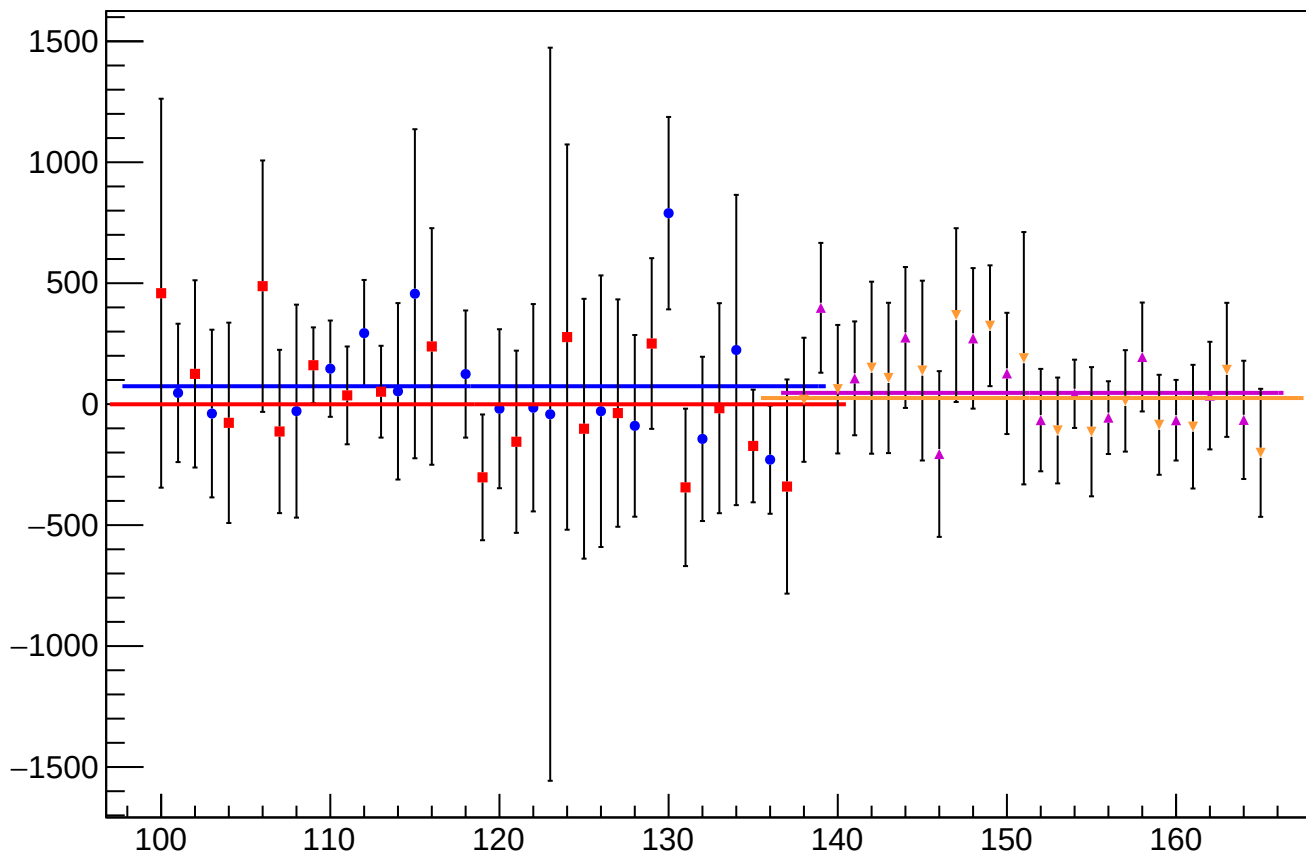
Right: 181.527 ± 0.037 χ^2/NDF : 2678891.2/35

In: 181.653 ± 0.033 χ^2/NDF : 2525201.5/29

Out: 197.377 ± 0.035 χ^2/NDF : 3062162.2/33

All: 189.144 ± 0.024 χ^2/NDF : 5694113.5/63

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 25.308 $\pm$ 69.671 χ^2 /NDF:4.8/14

Right Out: -0.503 $\pm$ 70.437 χ^2 /NDF: 7.3/18

Left In: 46.645 $\pm$ 58.776 χ^2 /NDF:5.5/12

Left: 37.773 $\pm$ 44.925 χ^2 /NDF: 10.4/27

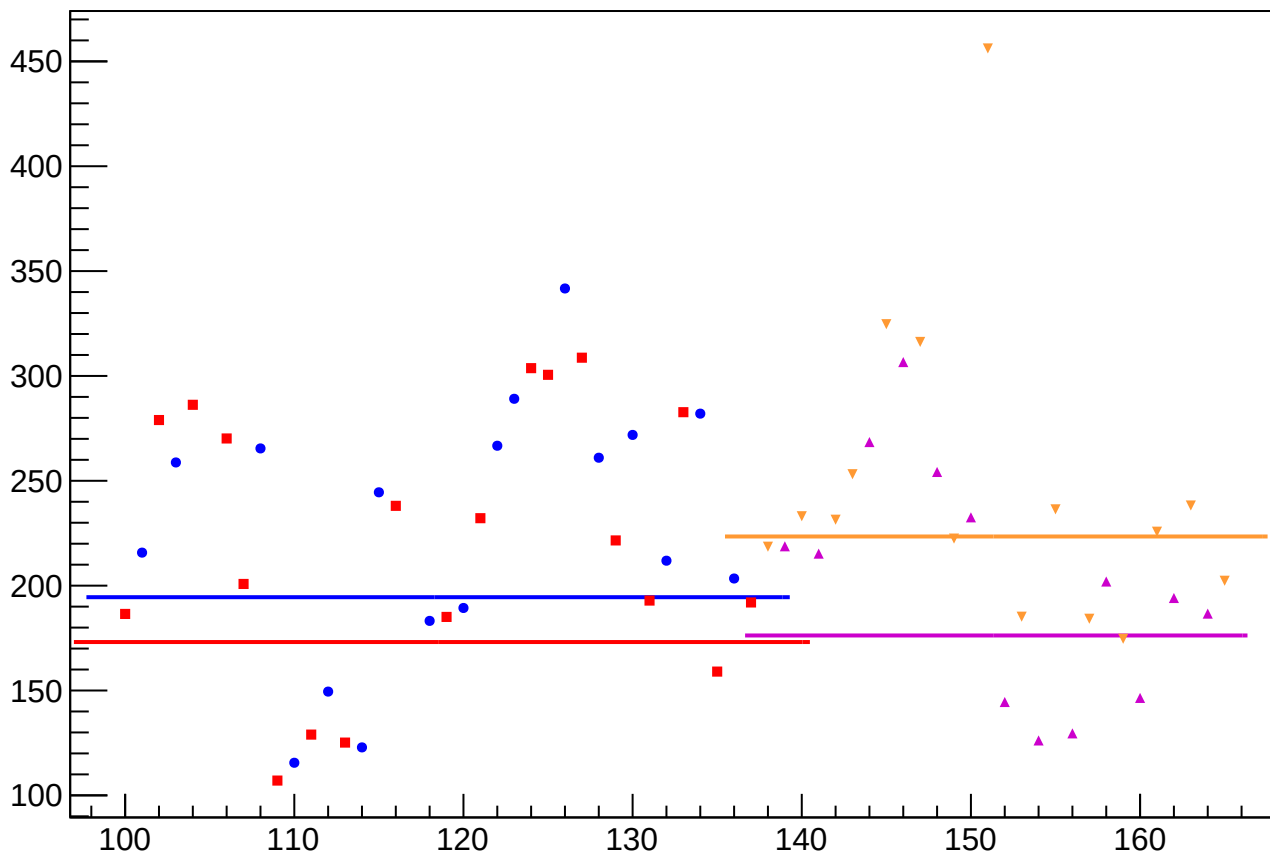
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 56.362 $\pm$ 47.242 χ^2 /NDF:13.1/29

Out: 12.544 $\pm$ 49.533 χ^2 /NDF:12.2/33

All: 35.490 $\pm$ 34.186 χ^2 /NDF: 25.7/63

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 $\pm$ 0.056 χ^2/NDF : 1008514.7/16

Left Out: 223.444 $\pm$ 0.049 χ^2/NDF :968466.8/14

Right Out: 173.111 $\pm$ 0.050 χ^2/NDF : 1567374.3/18

Left In: 176.242 $\pm$ 0.042 χ^2/NDF :1436537.2/12

Left: 195.868 $\pm$ 0.032 χ^2/NDF : 2941316.6/27

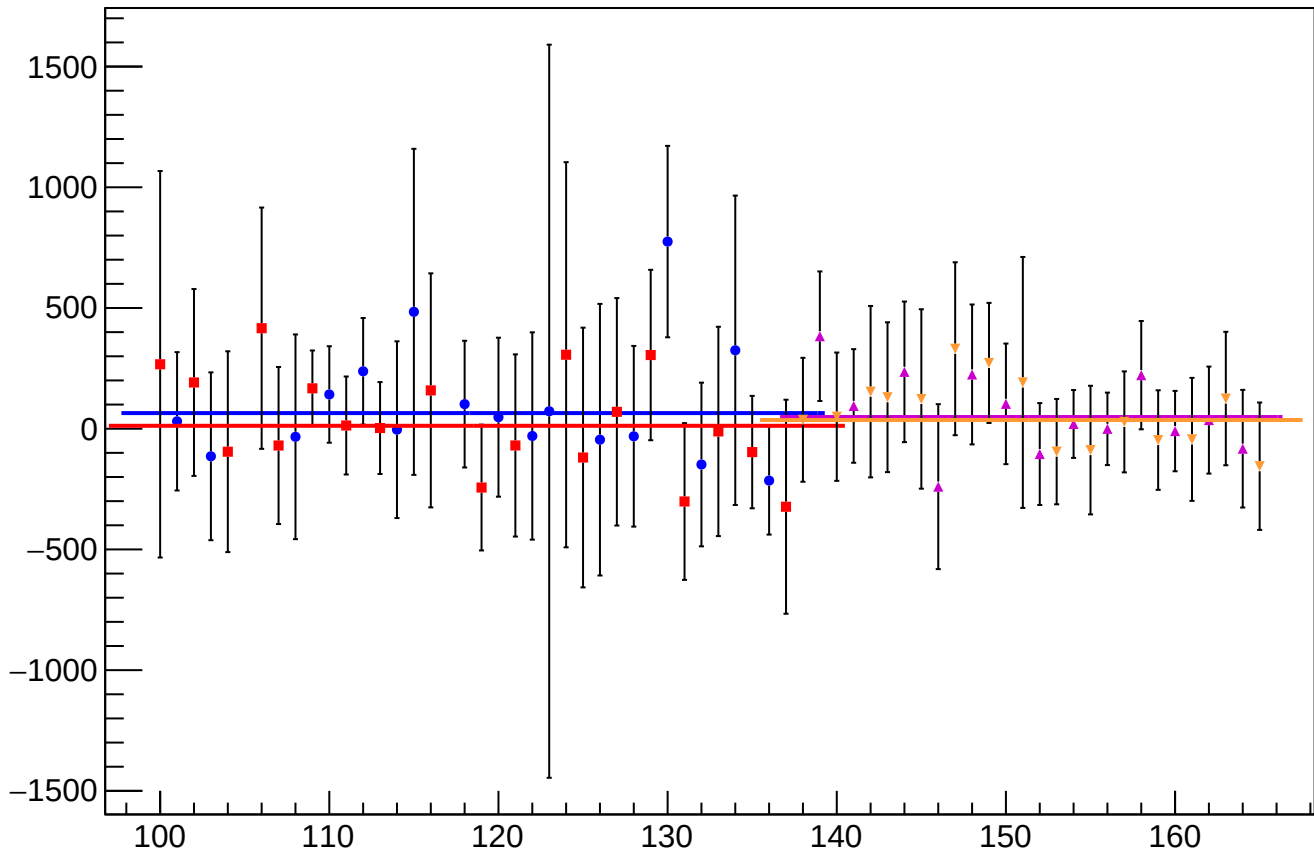
Right: 182.529 $\pm$ 0.037 χ^2/NDF : 2657073.5/35

In: 182.704 $\pm$ 0.033 χ^2/NDF :2513337.8/29

Out: 198.553 $\pm$ 0.035 χ^2/NDF :3052049.4/33

All: 190.253 $\pm$ 0.024 χ^2/NDF : 5672613.4/63

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 36.000+/-69.516 χ^2/NDF : 3.4/14

Right Out: 12.094+/-70.361 χ^2/NDF : 5.8/18

Left In: 48.416+/-58.630 χ^2/NDF : 4.8/12

Left: 43.255+/-44.818 χ^2/NDF : 8.3/27

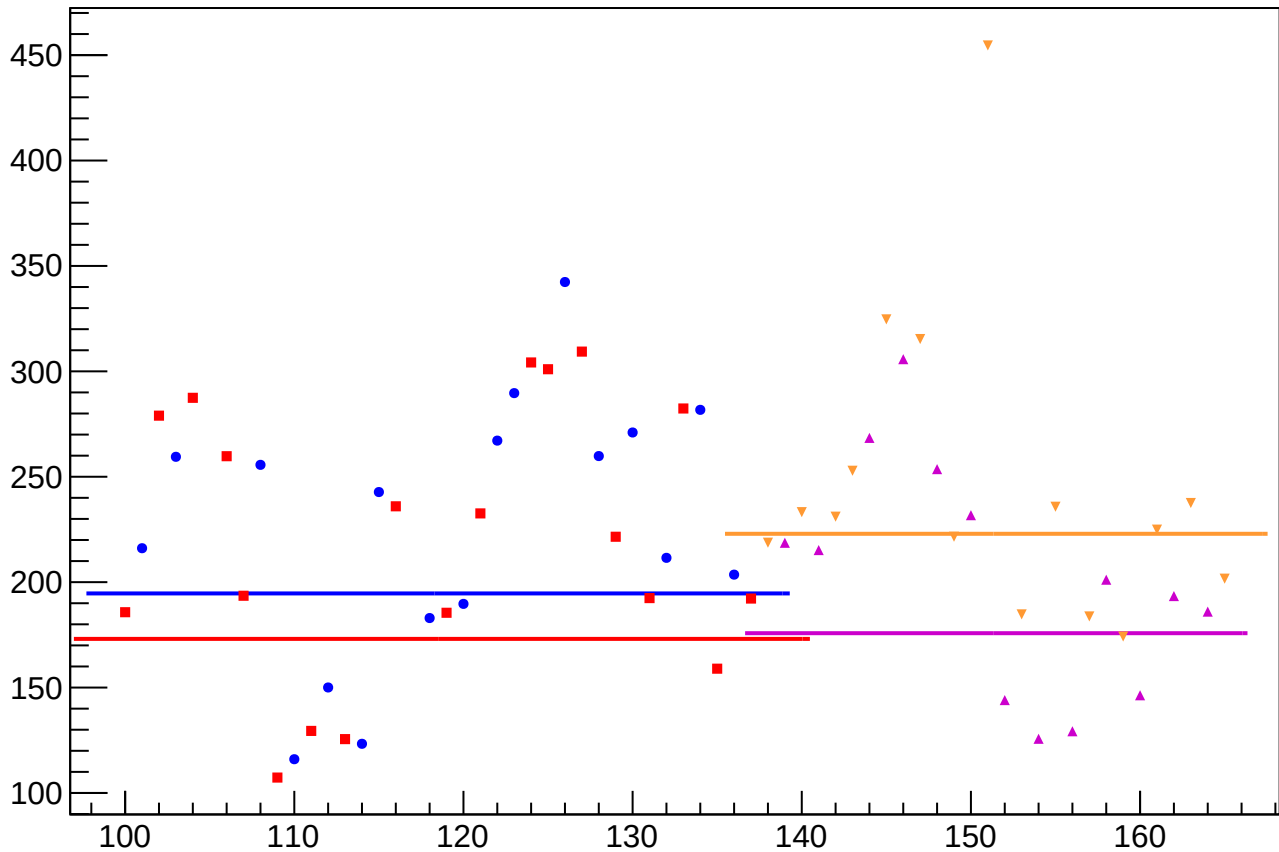
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 54.173+/-47.165 χ^2/NDF : 11.9/29

Out: 24.191+/-49.451 χ^2/NDF : 9.3/33

All: 39.892+/-34.130 χ^2/NDF : 21.3/63

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 222.940 $\pm$ 0.049 χ^2 /NDF: 970205.0/14

Right Out: 173.089 $\pm$ 0.050 χ^2 /NDF: 1544540.9/18

Left In: 175.790 $\pm$ 0.041 χ^2 /NDF: 1439733.8/12

Left: 195.388 $\pm$ 0.032 χ^2 /NDF: 2947569.1/27

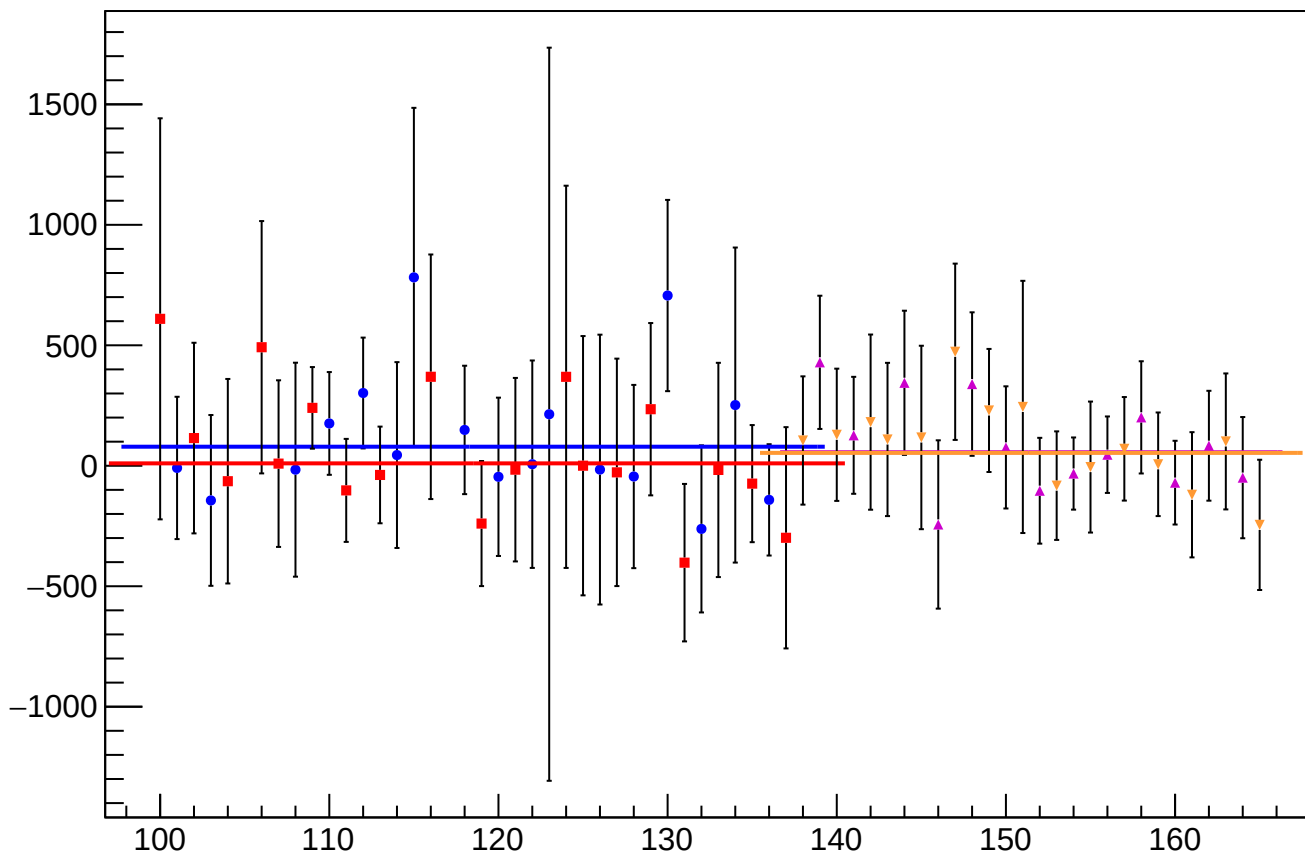
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 182.446 $\pm$ 0.033 χ^2 /NDF: 2499571.8/29

Out: 198.315 $\pm$ 0.035 χ^2 /NDF: 3022790.0/33

All: 190.005 $\pm$ 0.024 χ^2 /NDF: 5630218.1/63

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128+/-81.874 χ^2/NDF : 7.5/16

Left Out: 53.526+/-71.466 χ^2/NDF : 4.4/14

Right Out: 9.982+/-73.310 χ^2/NDF : 7.9/18

Left In: 56.211+/-61.094 χ^2/NDF : 6.5/12

Left: 55.077+/-46.439 χ^2/NDF : 10.8/27

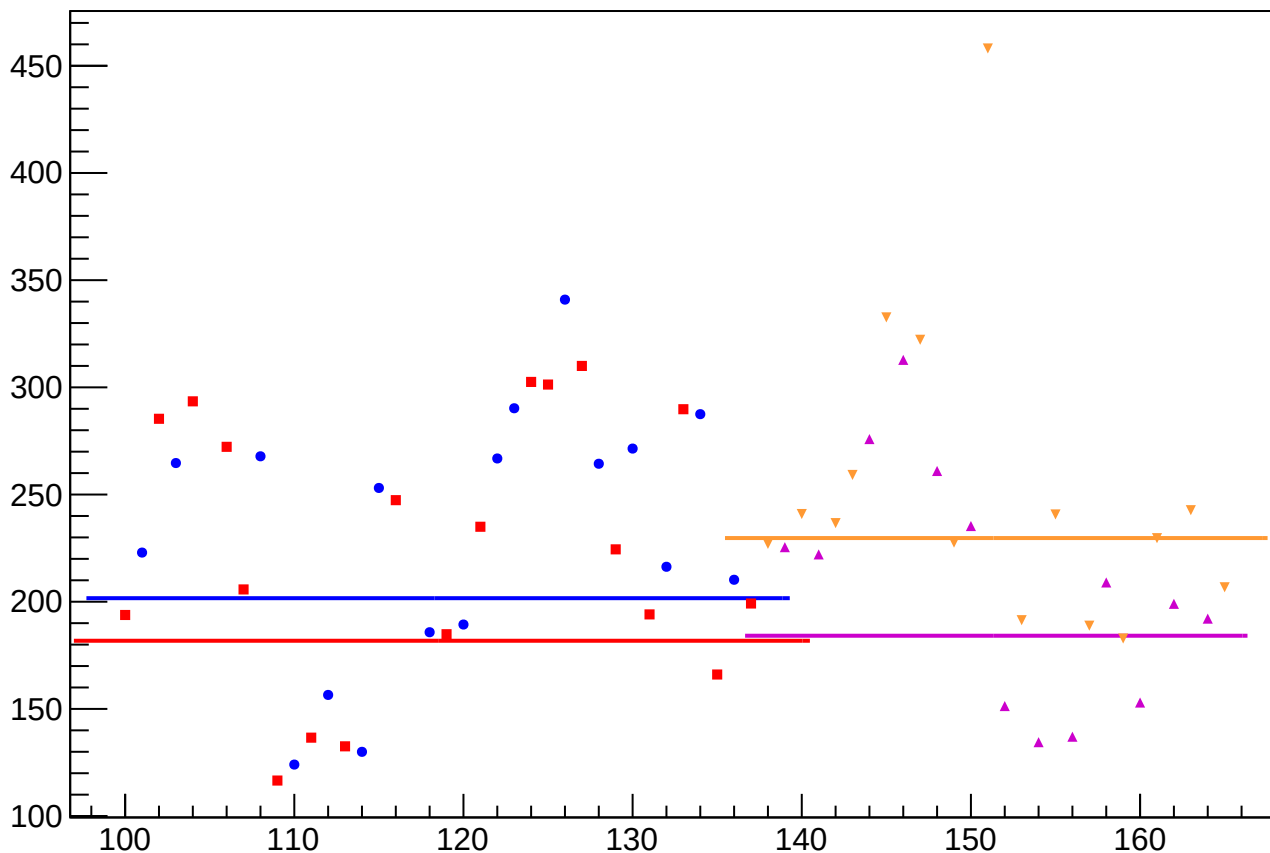
Right: 40.751+/-54.616 χ^2/NDF : 15.8/35

In: 64.407+/-48.965 χ^2/NDF : 14.0/29

Out: 32.308+/-51.174 χ^2/NDF : 12.4/33

All: 49.066+/-35.378 χ^2/NDF : 26.7/63

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654 $\pm$ 0.058 χ^2 /NDF: 883179.7/16

Left Out: 229.703 $\pm$ 0.051 χ^2 /NDF: 923639.6/14

Right Out: 181.797 $\pm$ 0.052 χ^2 /NDF: 1377449.9/18

Left In: 184.141 $\pm$ 0.043 χ^2 /NDF: 1306145.4/12

Left: 203.379 $\pm$ 0.033 χ^2 /NDF: 2699431.6/27

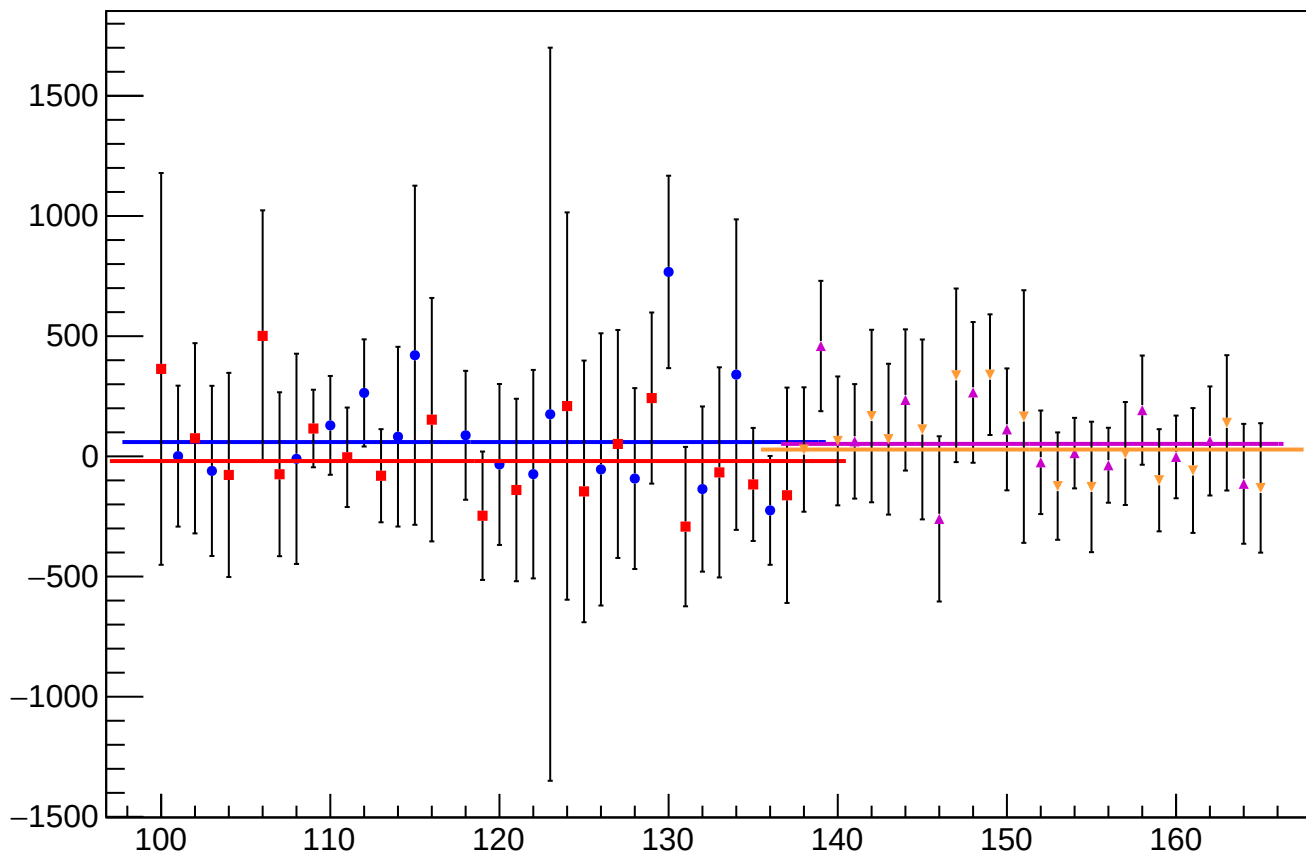
Right: 190.633 $\pm$ 0.039 χ^2 /NDF: 2325921.8/35

In: 190.405 $\pm$ 0.035 χ^2 /NDF: 2248102.6/29

Out: 206.360 $\pm$ 0.036 χ^2 /NDF: 2738974.8/33

All: 198.031 $\pm$ 0.025 χ^2 /NDF: 5088570.5/63

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 28.290 $\pm$ 70.736 χ^2 /NDF:4.4/14

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 51.892 $\pm$ 60.159 χ^2 /NDF:5.5/12

Left: 41.986 $\pm$ 45.827 χ^2 /NDF: 9.9/27

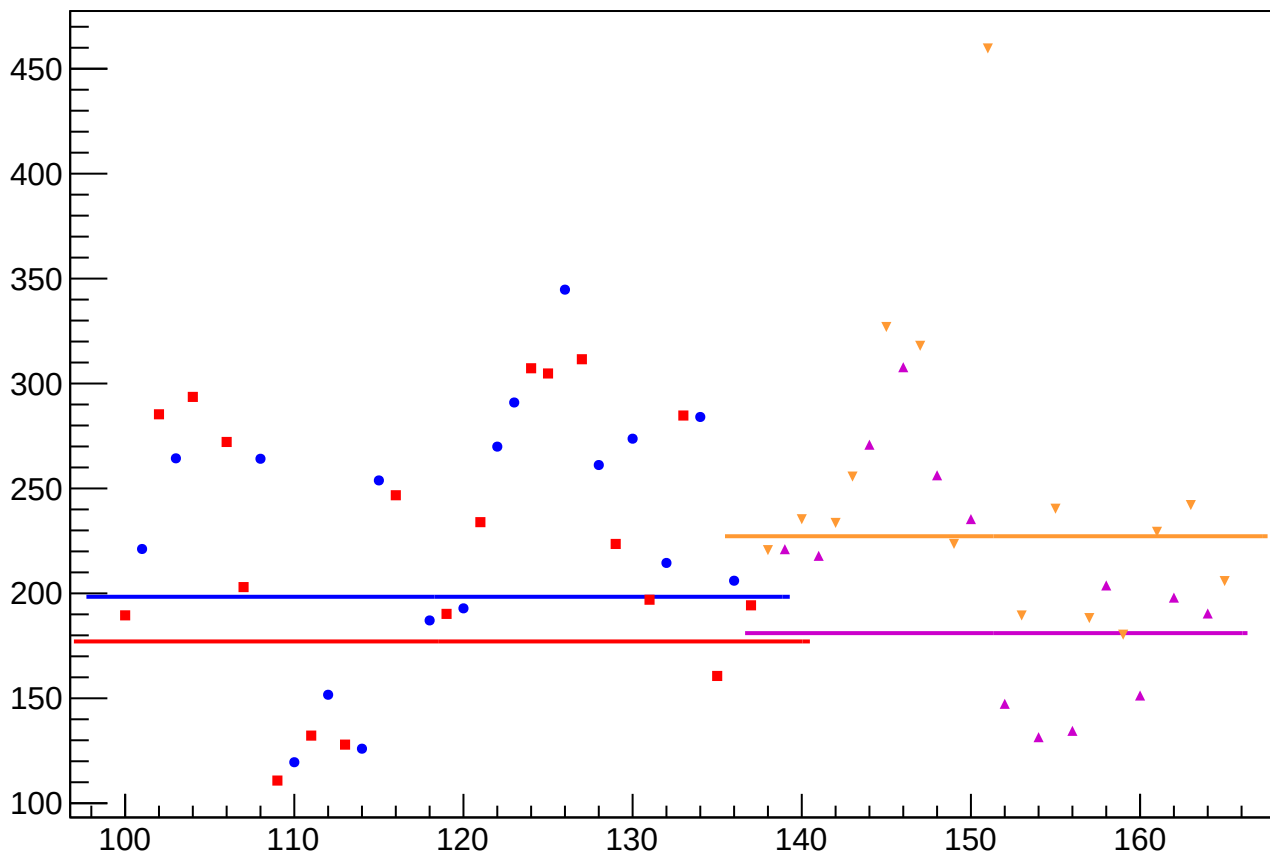
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 54.604 $\pm$ 48.255 χ^2 /NDF:12.5/29

Out: 4.753 $\pm$ 50.413 χ^2 /NDF:9.3/33

All: 30.768 $\pm$ 34.859 χ^2 /NDF: 22.3/63

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 227.228+/-0.050 χ^2/NDF : 923995.2/14

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 181.059+/-0.043 χ^2/NDF : 1323030.8/12

Left: 200.437+/-0.032 χ^2/NDF : 2741427.3/27

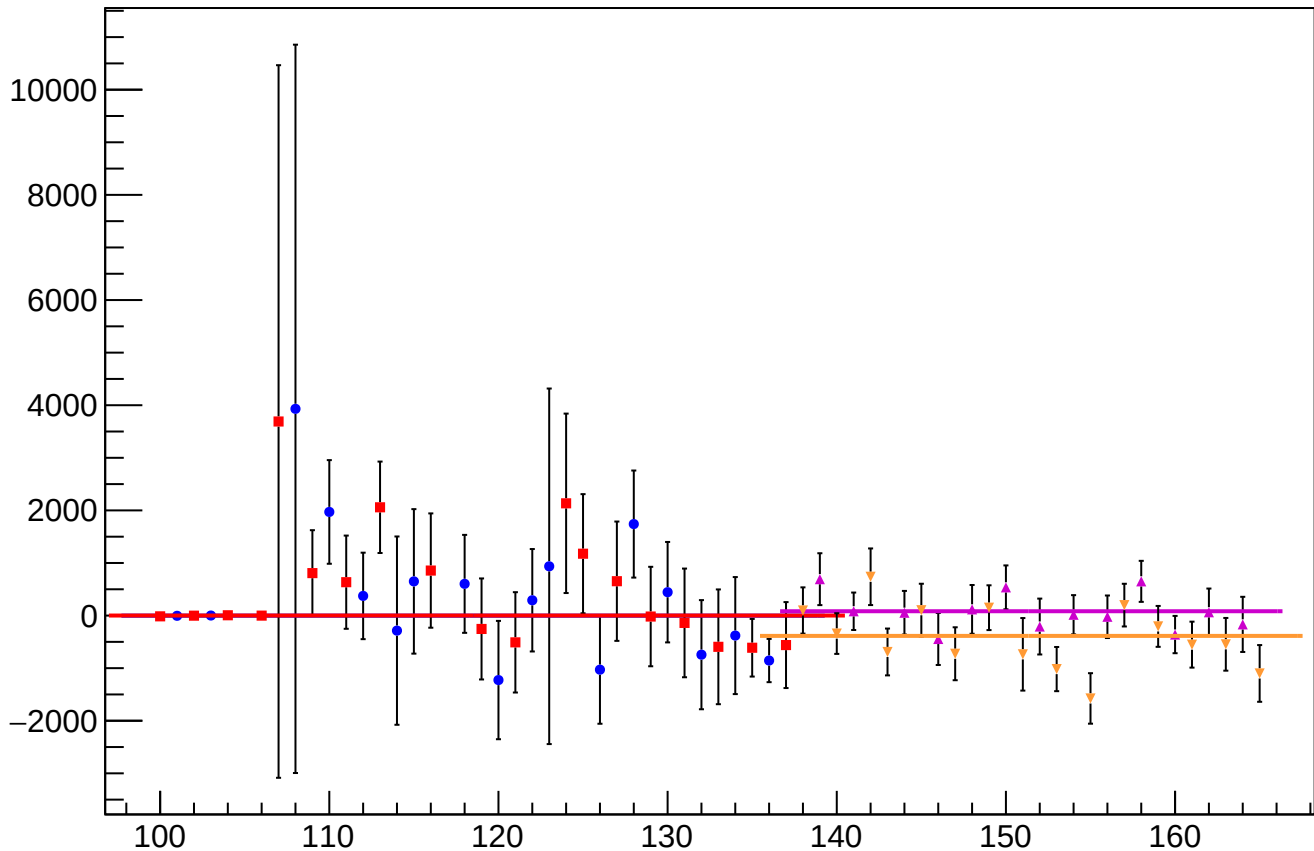
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 187.235+/-0.034 χ^2/NDF : 2345810.3/29

Out: 202.559+/-0.036 χ^2/NDF : 2943083.1/33

All: 194.562+/-0.025 χ^2/NDF : 5385329.6/63

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -386.515 ± 118.498 χ^2/NDF : 22.0/14

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 82.443 ± 117.673 χ^2/NDF : 8.2/12

Left: -150.398 ± 83.498 χ^2/NDF : 38.0/27

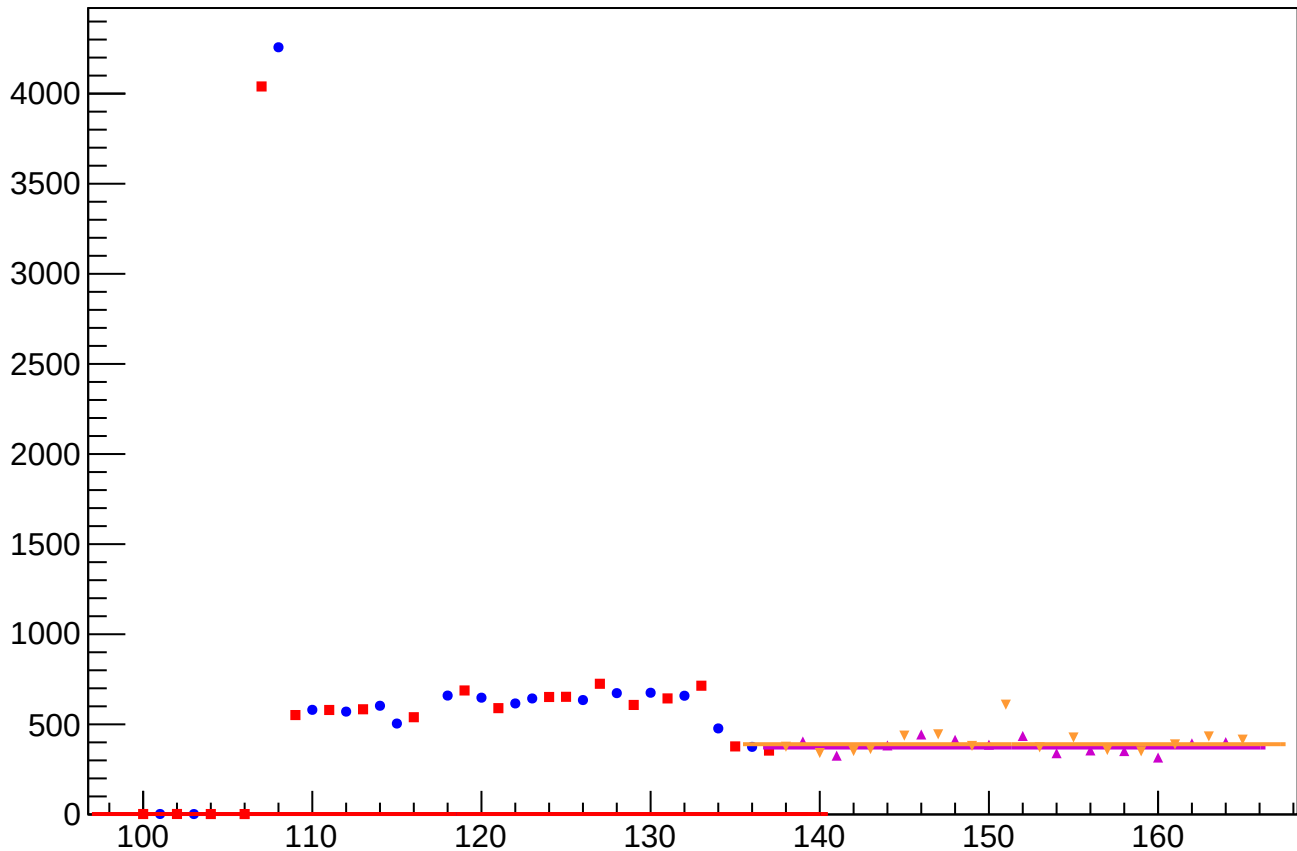
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.499 ± 2.251 χ^2/NDF : 25.6/29

Out: 0.604 ± 2.111 χ^2/NDF : 52.0/33

All: -0.380 ± 1.540 χ^2/NDF : 78.1/63

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 389.834+/-0.084 χ^2/NDF : 364669.2/14

Right Out: 2.437+/-0.001 χ^2/NDF : 11147393.9/18

Left In: 371.335+/-0.083 χ^2/NDF : 218264.0/12

Left: 380.520+/-0.059 χ^2/NDF : 607474.8/27

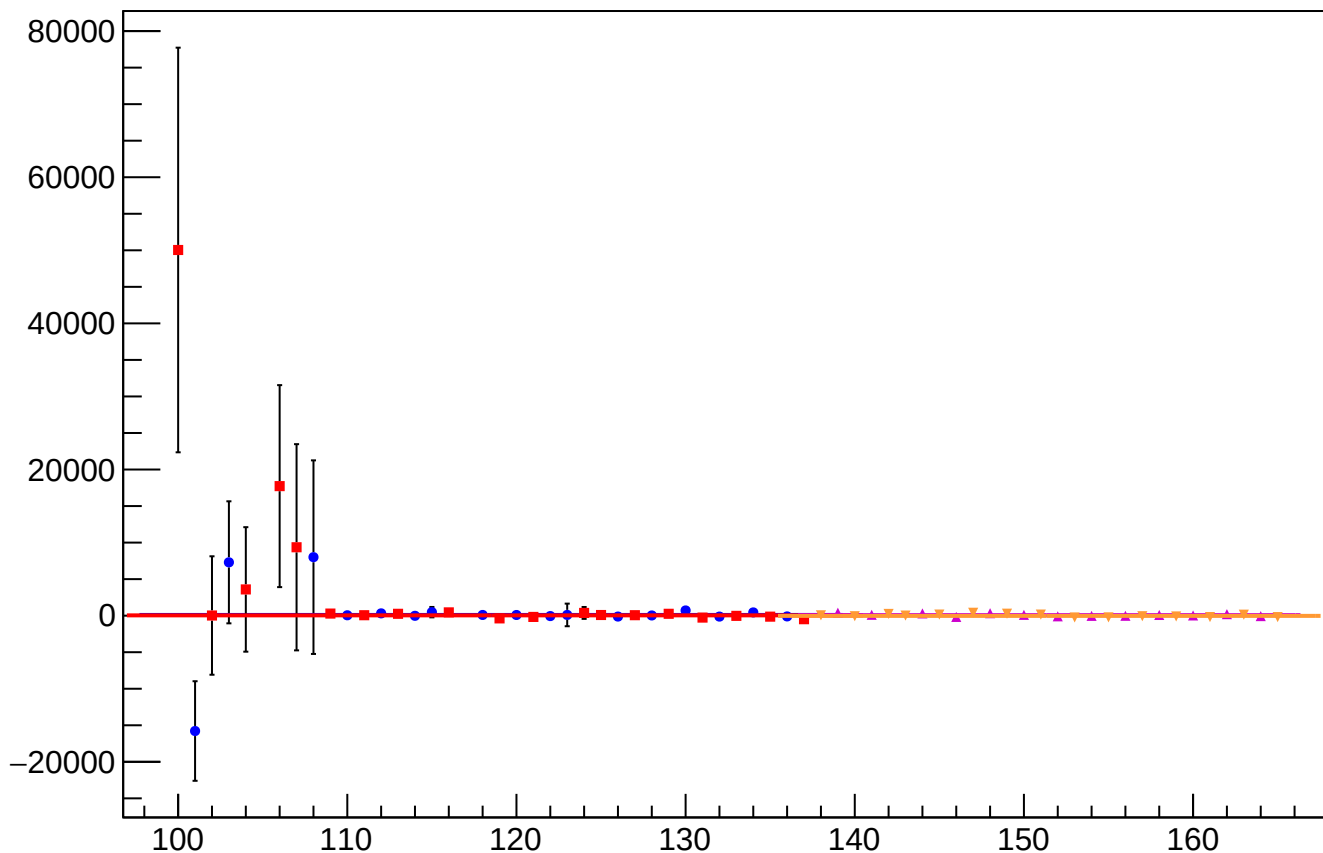
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.592+/-0.002 χ^2/NDF : 30712285.2/29

Out: 2.560+/-0.001 χ^2/NDF : 32880919.2/33

All: 2.575+/-0.001 χ^2/NDF : 63593419.2/63

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643 $\pm$ 90.860 χ^2 /NDF: 11.9/16

Left Out: -27.889 $\pm$ 74.023 χ^2 /NDF:5.9/14

Right Out: 42.302 $\pm$ 84.496 χ^2 /NDF: 13.9/18

Left In: 72.655 $\pm$ 64.143 χ^2 /NDF:5.1/12

Left: 29.536 $\pm$ 48.475 χ^2 /NDF: 12.1/27

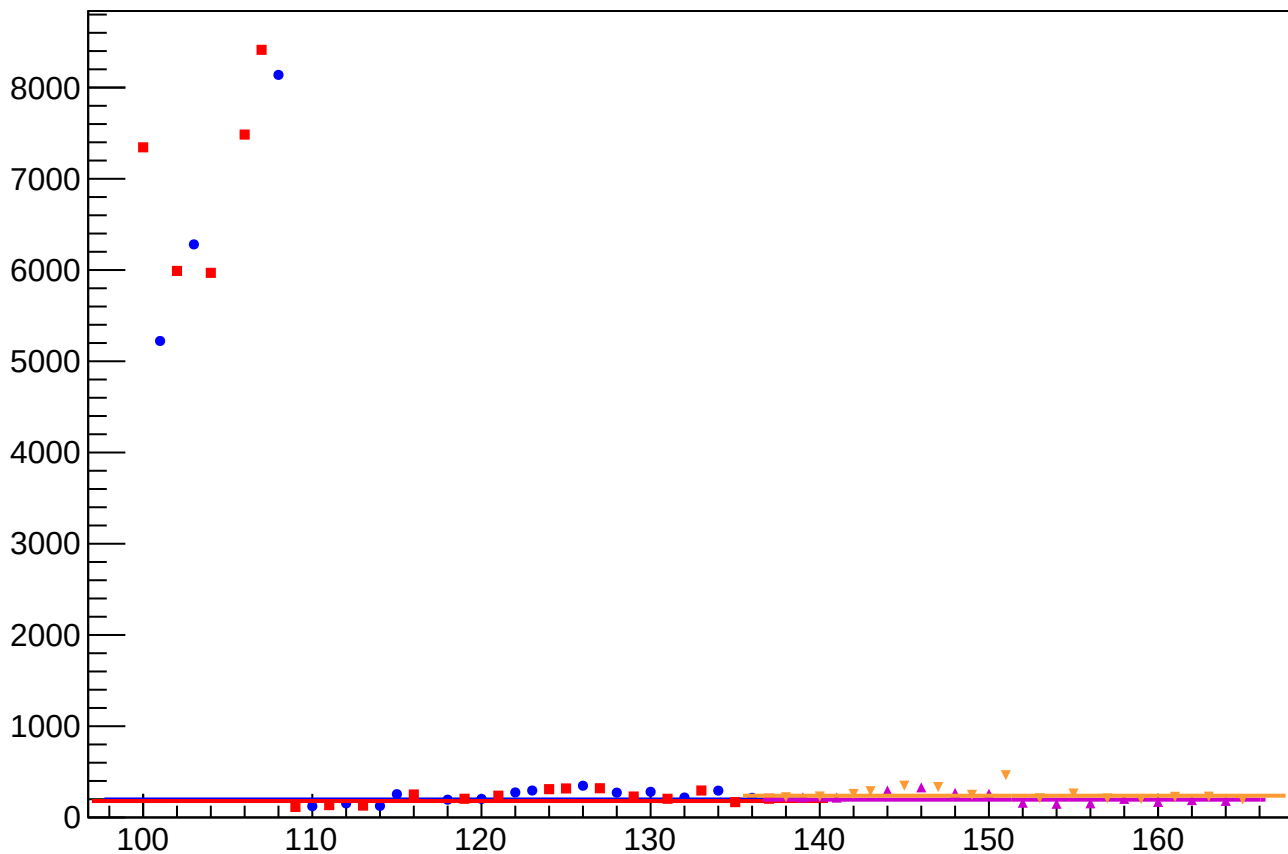
Right: 68.431 $\pm$ 61.875 χ^2 /NDF: 26.0/35

In: 81.299 $\pm$ 52.401 χ^2 /NDF:17.0/29

Out: 2.590 $\pm$ 55.679 χ^2 /NDF:20.2/33

All: 44.329 $\pm$ 38.159 χ^2 /NDF: 38.3/63

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 238.468+/-0.052 χ^2/NDF : 884586.4/14

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 194.858+/-0.045 χ^2/NDF : 1057933.1/12

Left: 213.560+/-0.034 χ^2/NDF : 2338980.5/27

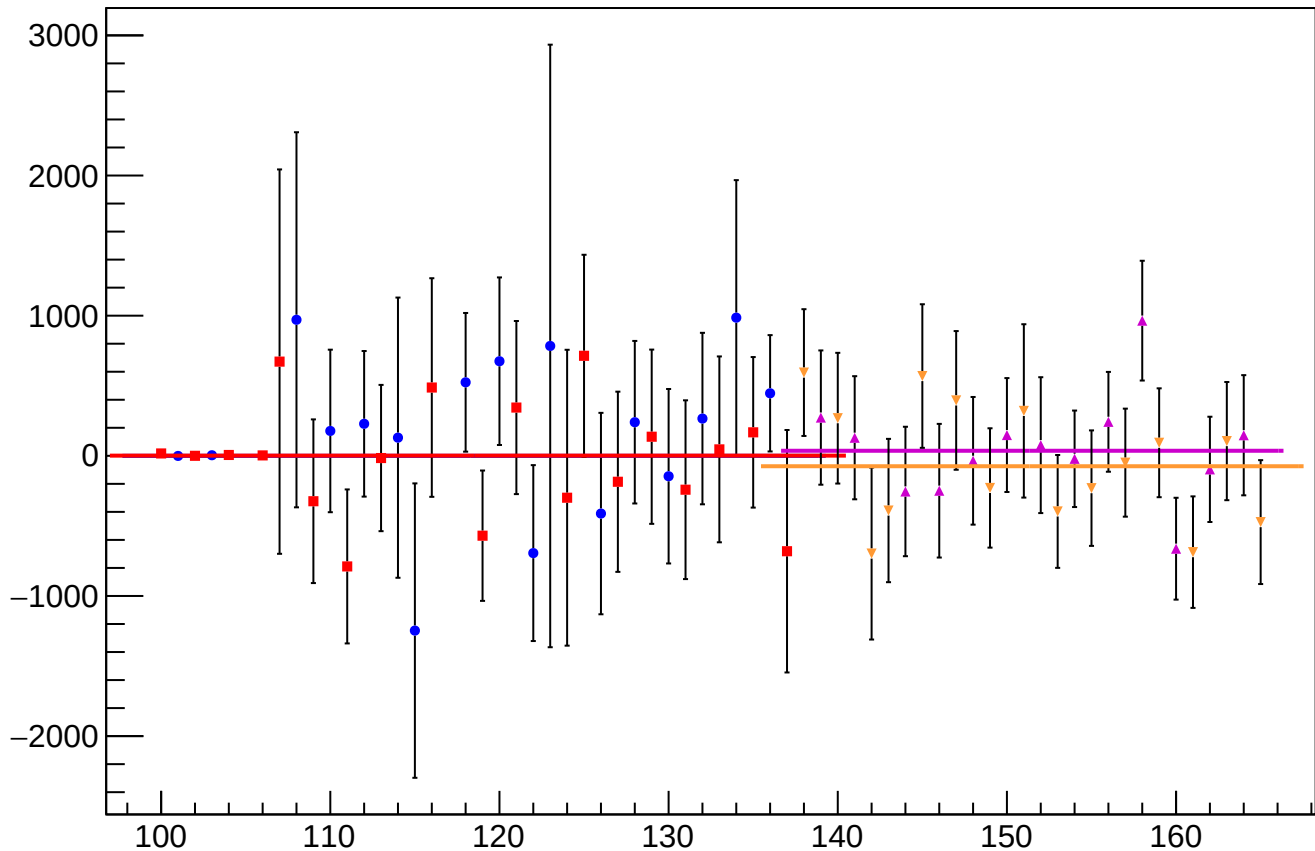
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 195.599+/-0.037 χ^2/NDF : 4752349.0/29

Out: 213.058+/-0.039 χ^2/NDF : 5748497.3/33

All: 203.799+/-0.027 χ^2/NDF : 10605123.0/63

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -74.338 ± 115.879 χ^2/NDF : 11.5/14

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 36.097 ± 114.963 χ^2/NDF : 10.1/12

Left: -18.682 ± 81.613 χ^2/NDF : 22.1/27

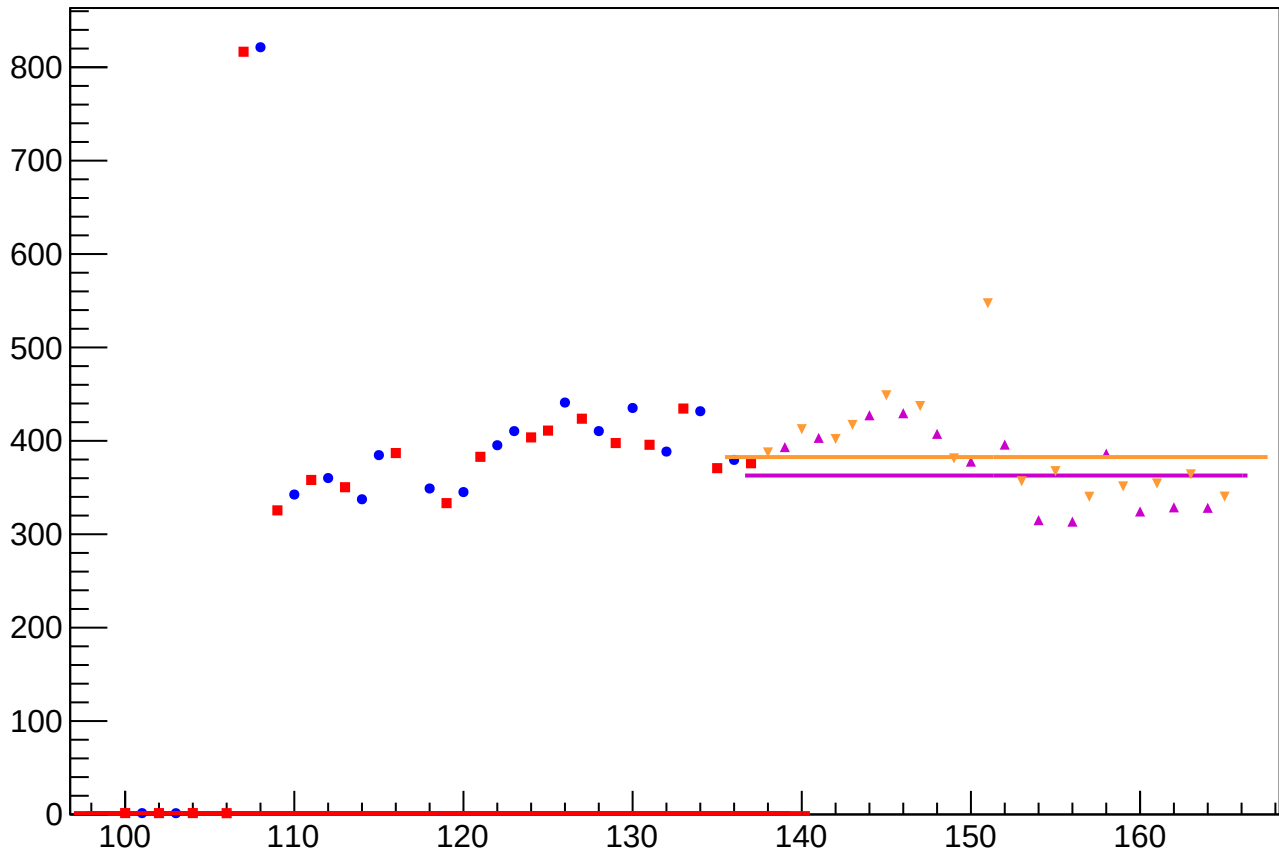
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.130 ± 1.736 χ^2/NDF : 20.0/29

Out: 1.309 ± 1.622 χ^2/NDF : 21.5/33

All: 0.638 ± 1.185 χ^2/NDF : 41.9/63

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 382.625+/-0.082 χ^2/NDF :299654.3/14

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 362.862+/-0.081 χ^2/NDF :269175.1/12

Left: 372.665+/-0.058 χ^2/NDF : 598147.0/27

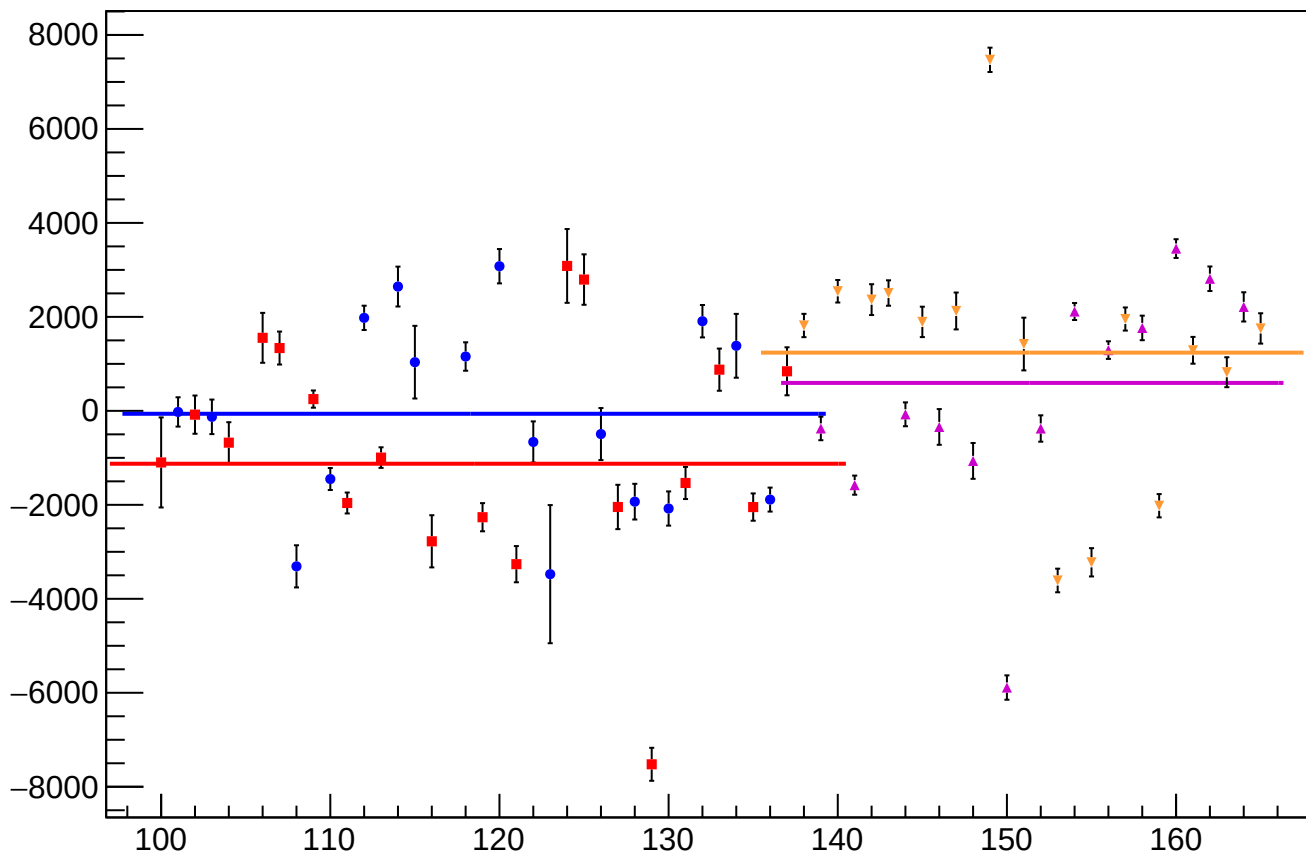
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.535+/-0.001 χ^2/NDF :30988321.5/29

Out: 1.526+/-0.001 χ^2/NDF :32816622.5/33

All: 1.530+/-0.001 χ^2/NDF : 63804976.0/63

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 $\chi^2/\text{NDF}: 433.9/16$

Left Out: 1239.278 ± 74.099 $\chi^2/\text{NDF}: 1435.0/14$

Right Out: -1125.437 ± 78.370 $\chi^2/\text{NDF}: 671.2/18$

Left In: 594.693 ± 67.303 $\chi^2/\text{NDF}: 1206.7/12$

Left: 886.077 ± 49.820 $\chi^2/\text{NDF}: 2683.2/27$

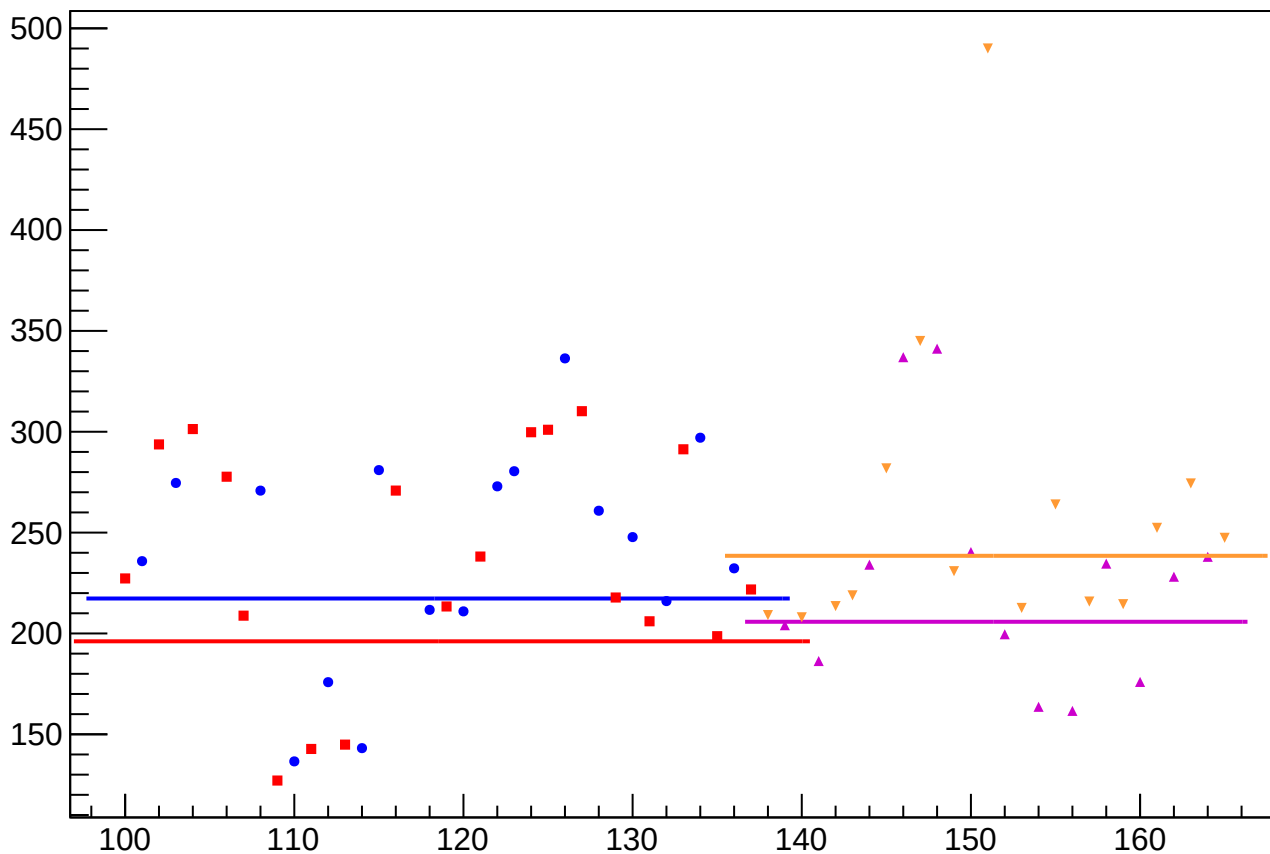
Right: -651.694 ± 58.355 $\chi^2/\text{NDF}: 1187.1/35$

In: 350.261 ± 53.330 $\chi^2/\text{NDF}: 1676.1/29$

Out: 123.096 ± 53.843 $\chi^2/\text{NDF}: 2586.9/33$

All: 237.764 ± 37.890 $\chi^2/\text{NDF}: 4272.0/63$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 238.499 $\pm$ 0.052 χ^2 /NDF: 772192.0/14

Right Out: 196.105 $\pm$ 0.055 χ^2 /NDF: 1190733.6/18

Left In: 205.791 $\pm$ 0.048 χ^2 /NDF: 894893.6/12

Left: 220.577 $\pm$ 0.035 χ^2 /NDF: 1880617.1/27

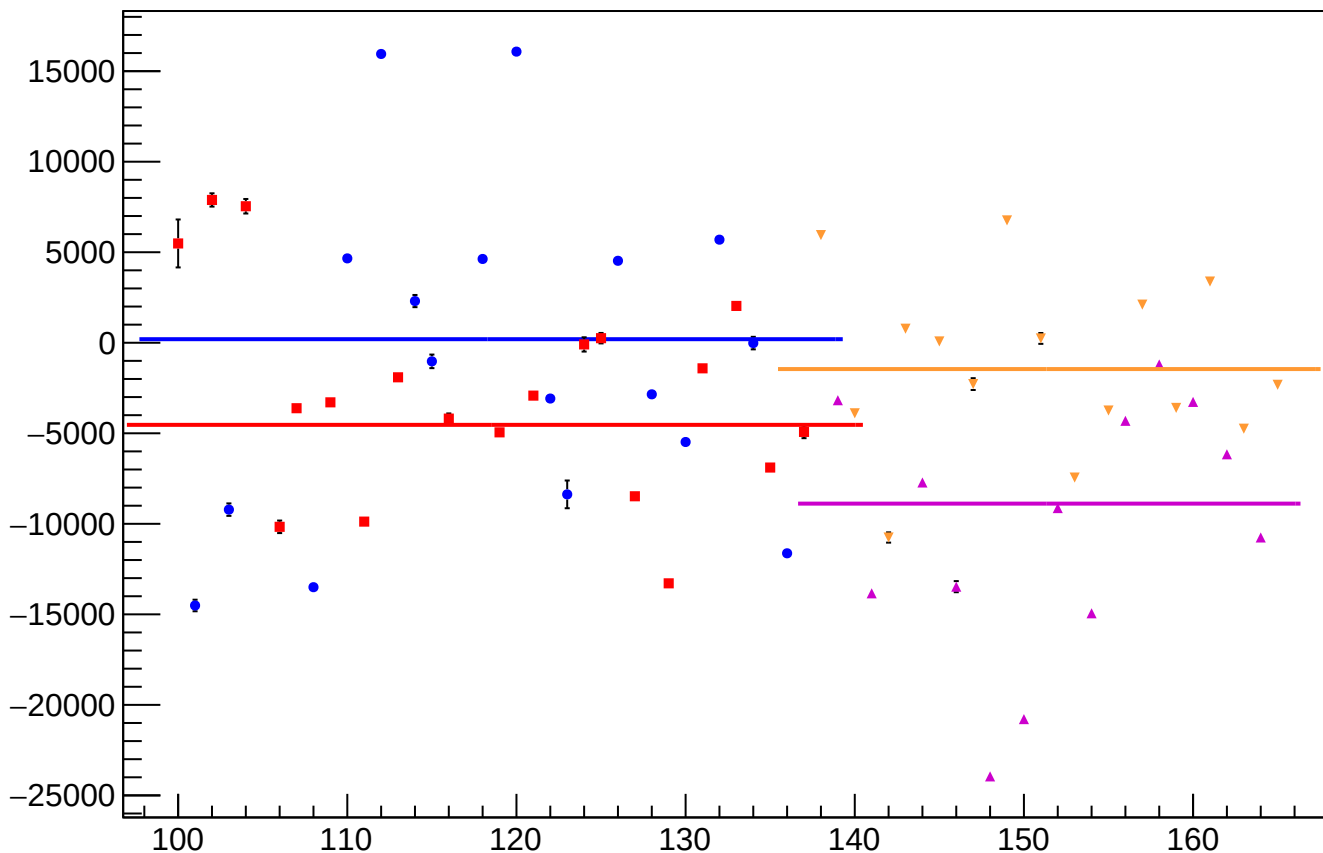
Right: 205.562 $\pm$ 0.041 χ^2 /NDF: 1908816.5/35

In: 210.085 $\pm$ 0.038 χ^2 /NDF: 1569492.7/29

Out: 218.489 $\pm$ 0.038 χ^2 /NDF: 2271931.9/33

All: 214.247 $\pm$ 0.027 χ^2 /NDF: 3866019.0/63

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 $\pm$ 54.799 χ^2/NDF : 30658.3/16

Left Out: -1452.743 $\pm$ 52.087 χ^2/NDF : 7587.7/14

Right Out: -4534.200 $\pm$ 52.462 χ^2/NDF : 7477.2/18

Left In: -8884.817 $\pm$ 54.906 χ^2/NDF : 14070.4/12

Left: -4973.074 $\pm$ 37.788 χ^2/NDF : 31301.6/27

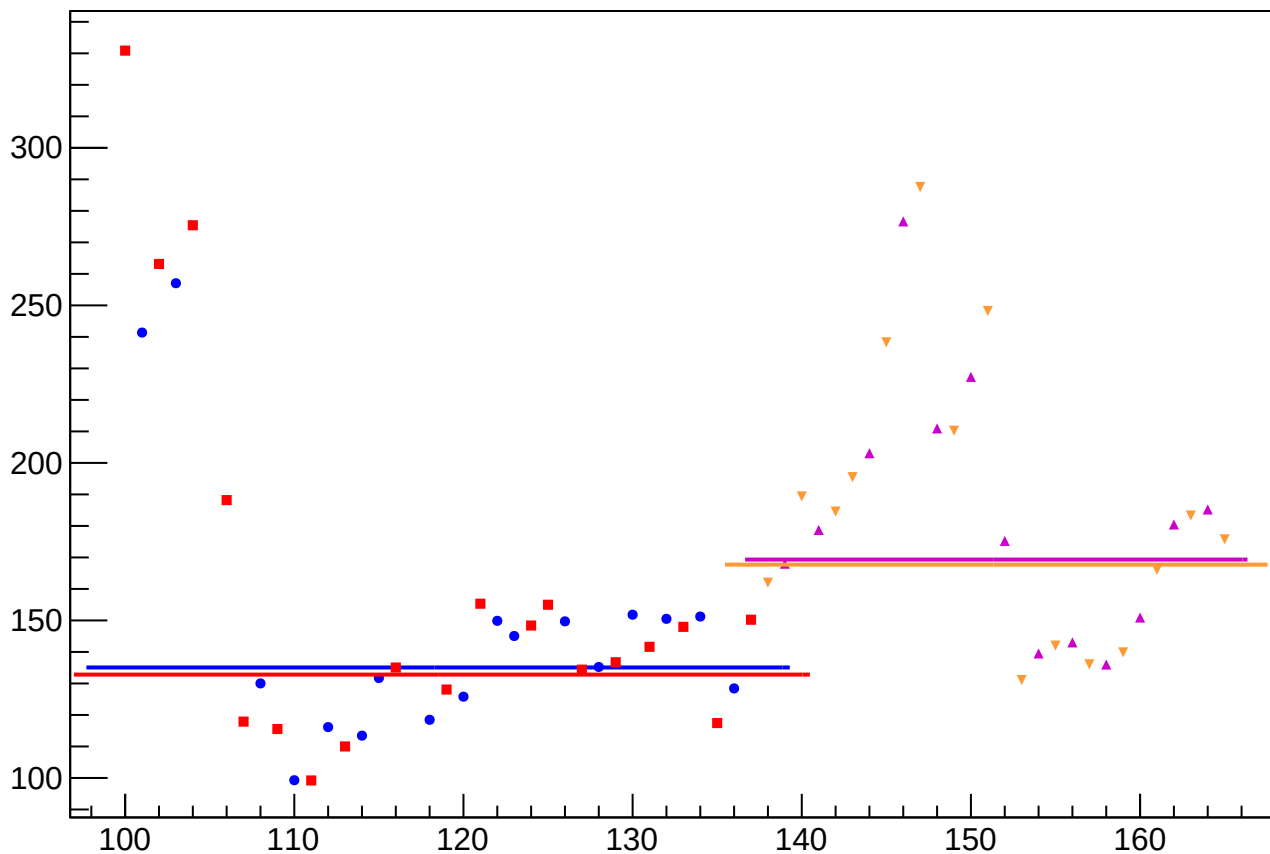
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4334.974 $\pm$ 38.786 χ^2/NDF : 58435.1/29

Out: -2982.430 $\pm$ 36.963 χ^2/NDF : 16802.3/33

All: -3626.158 $\pm$ 26.758 χ^2/NDF : 75874.7/63

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 167.717+/-0.037 χ^2/NDF :1003334.6/14

Right Out: 132.816+/-0.037 χ^2/NDF : 831191.5/18

Left In: 169.328+/-0.039 χ^2/NDF :729200.0/12

Left: 168.480+/-0.027 χ^2/NDF : 1733441.2/27

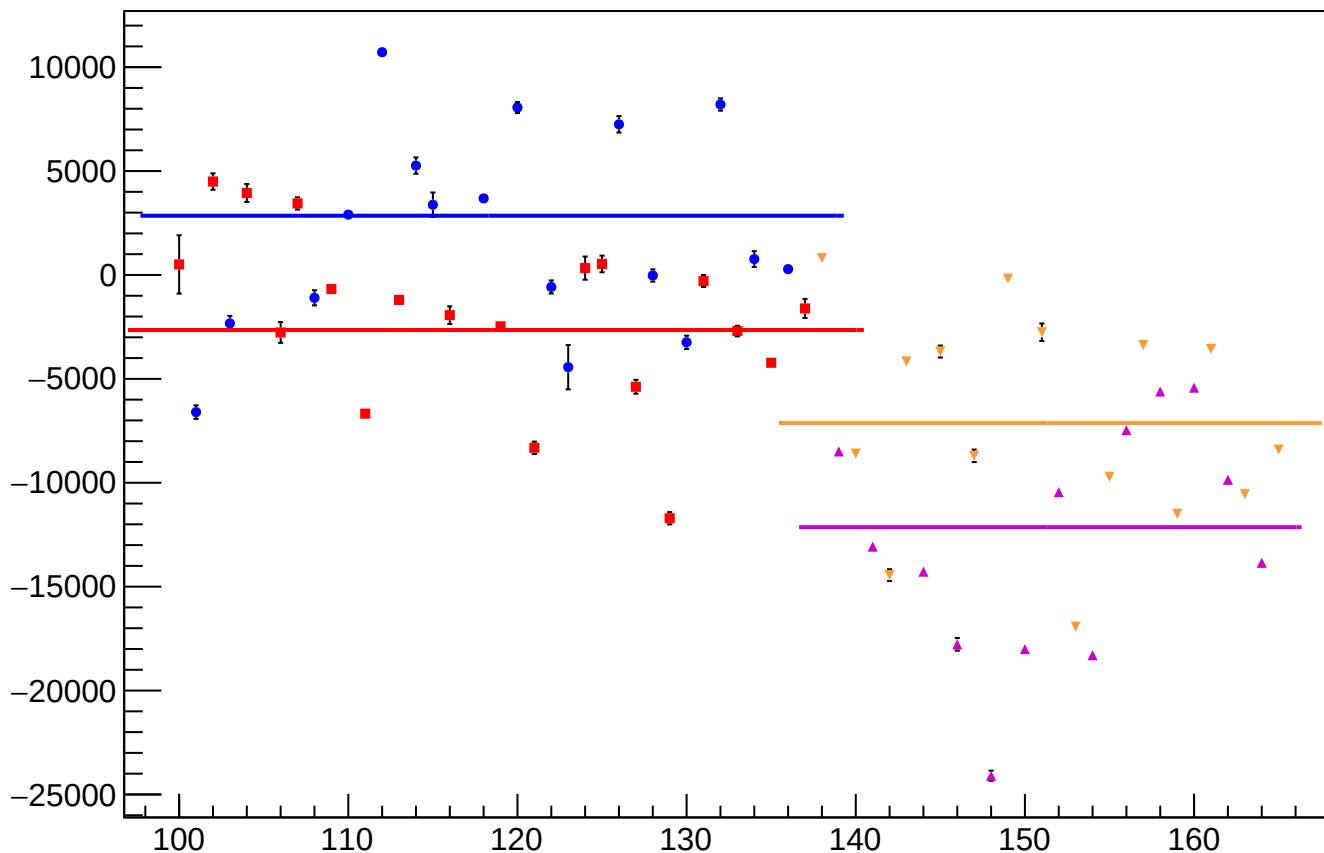
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 152.166+/-0.027 χ^2/NDF :1777927.8/29

Out: 150.392+/-0.026 χ^2/NDF :2280268.8/33

All: 151.236+/-0.019 χ^2/NDF : 4060391.0/63

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 $\pm$ 70.753 χ^2/NDF : 4178.1/16

Left Out: -7126.828 $\pm$ 59.567 χ^2/NDF :7685.3/14

Right Out: -2649.142 $\pm$ 65.731 χ^2/NDF : 3175.7/18

Left In: -12137.628 $\pm$ 55.000 χ^2/NDF :9418.8/12

Left: -9831.661 $\pm$ 40.409 χ^2/NDF : 20923.8/27

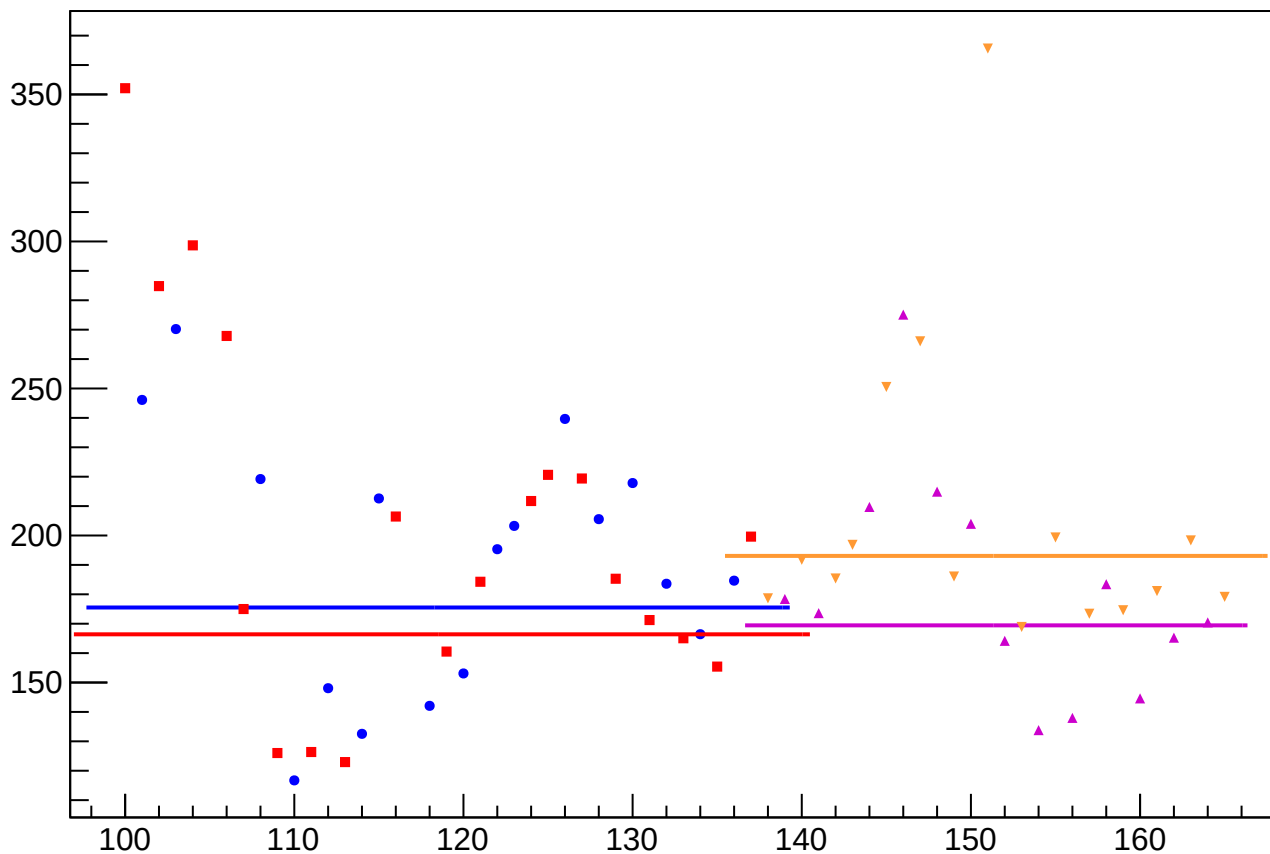
Right: -100.998 $\pm$ 48.156 χ^2/NDF : 10597.9/35

In: -6491.787 $\pm$ 43.423 χ^2/NDF :41572.4/29

Out: -5107.720 $\pm$ 44.139 χ^2/NDF :13409.0/33

All: -5811.063 $\pm$ 30.955 χ^2/NDF : 55481.1/63

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 193.061+/-0.042 χ^2/NDF : 627889.0/14

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 169.441+/-0.039 χ^2/NDF : 675401.2/12

Left: 180.310+/-0.029 χ^2/NDF : 1473041.3/27

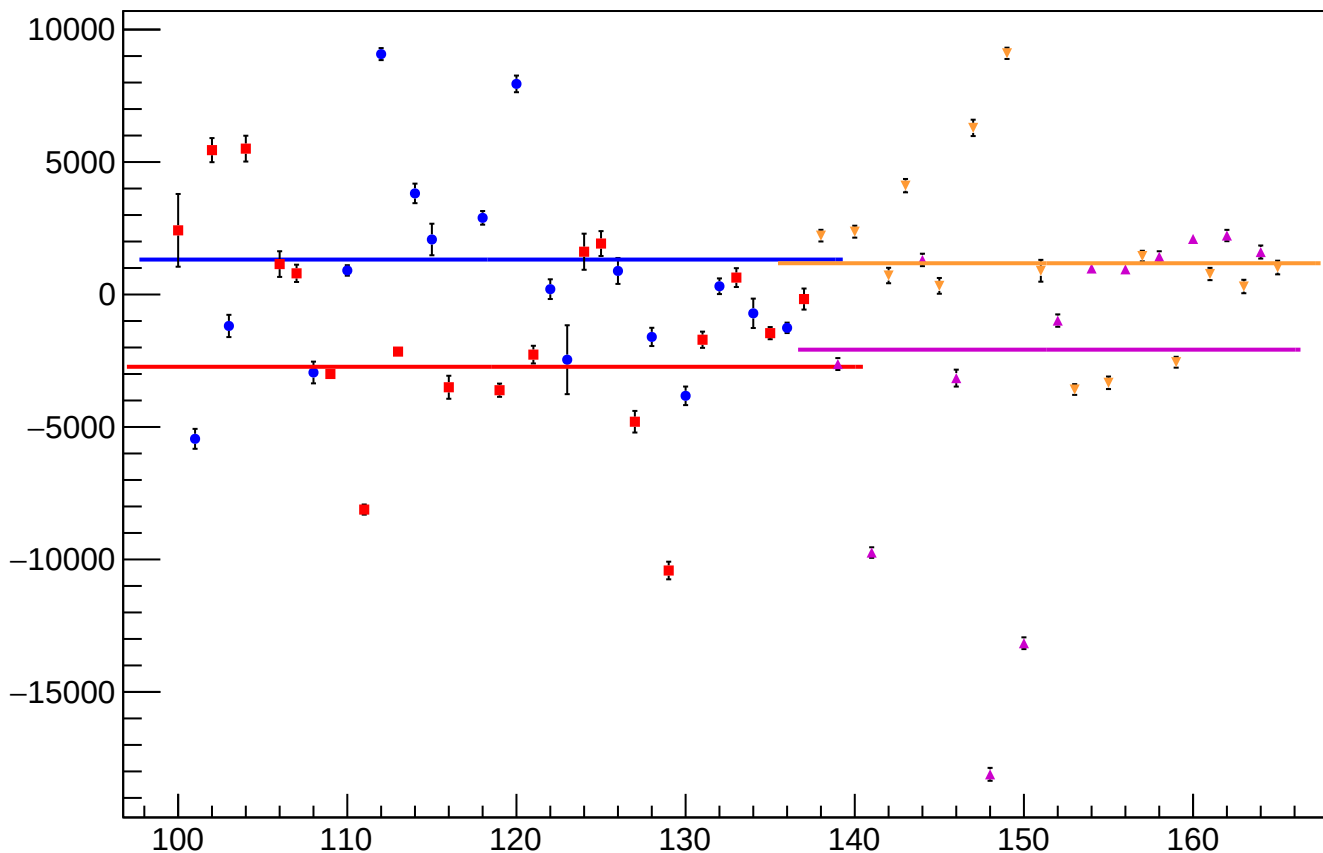
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 171.728+/-0.031 χ^2/NDF : 1374230.4/29

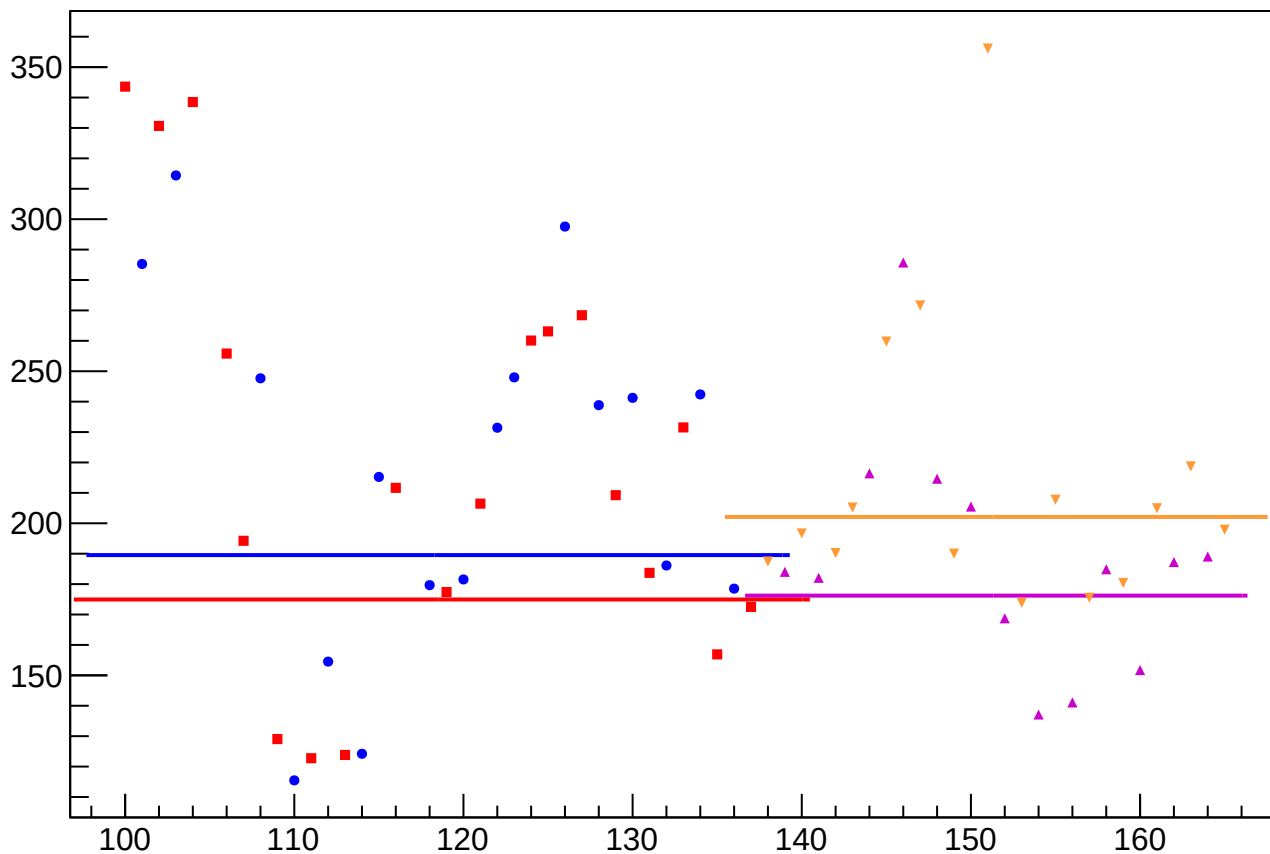
Out: 181.035+/-0.031 χ^2/NDF : 1738180.5/33

All: 176.306+/-0.022 χ^2/NDF : 3157599.3/63

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.087 $\pm$ 0.044 χ^2 /NDF: 582893.7/14

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 176.214 $\pm$ 0.040 χ^2 /NDF: 665805.7/12

Left: 188.052 $\pm$ 0.030 χ^2 /NDF: 1435780.4/27

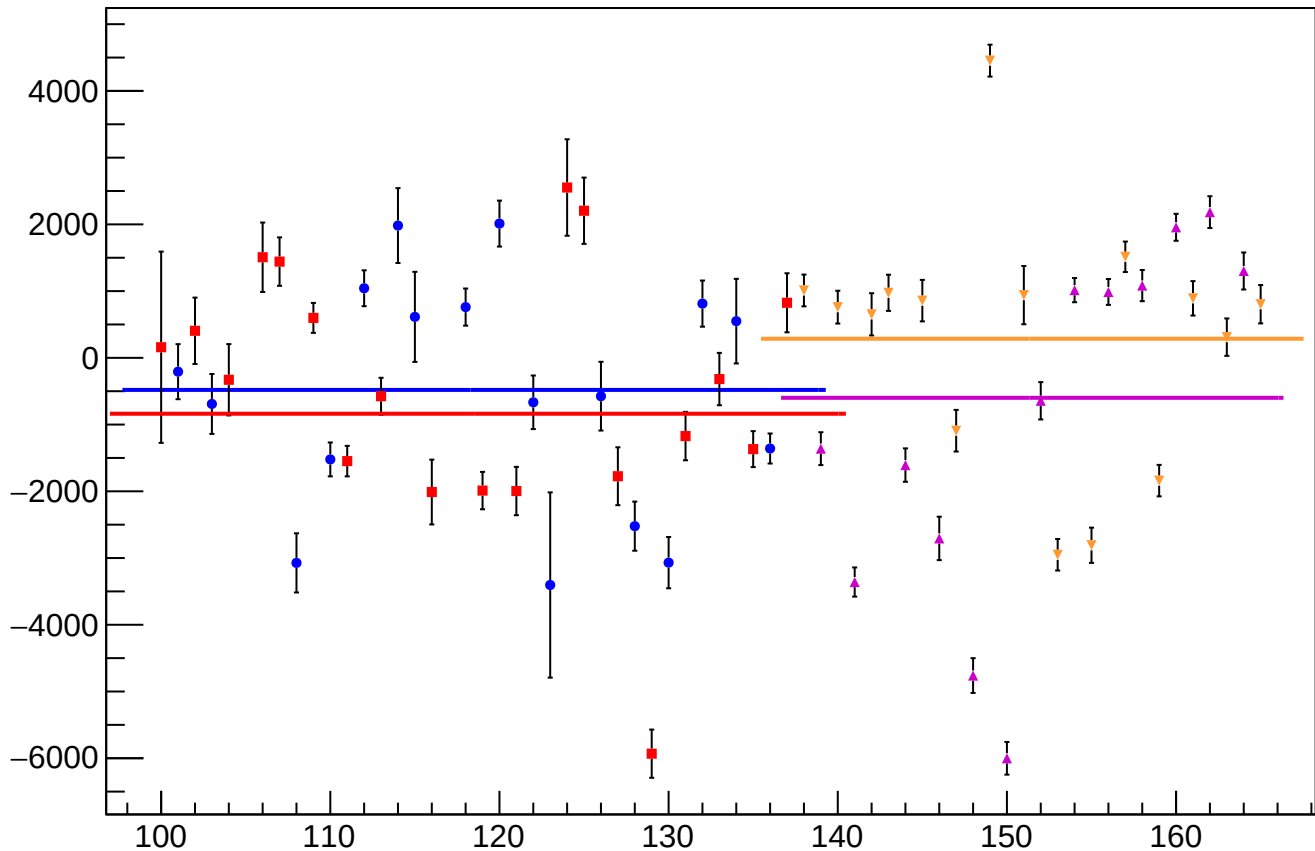
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 180.945 $\pm$ 0.032 χ^2 /NDF: 1685074.5/29

Out: 190.094 $\pm$ 0.033 χ^2 /NDF: 2047707.9/33

All: 185.461 $\pm$ 0.023 χ^2 /NDF: 3771905.0/63

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 286.389±/68.935 χ^2/NDF : 793.8/14

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -598.803±/64.899 χ^2/NDF : 1510.1/12

Left: -182.881±/47.253 χ^2/NDF : 2391.3/27

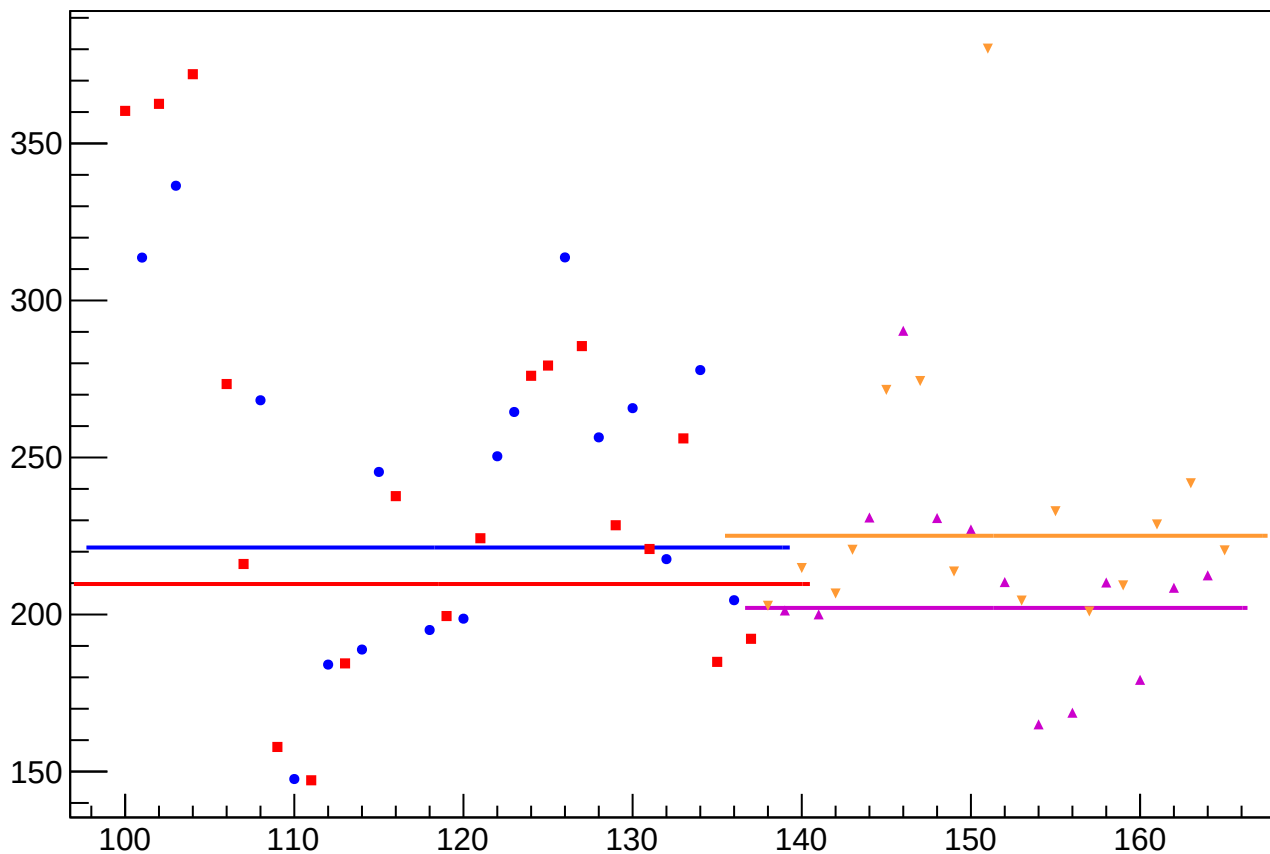
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -557.545±/52.364 χ^2/NDF : 1802.0/29

Out: -177.359±/52.831 χ^2/NDF : 1338.8/33

All: -369.140±/37.191 χ^2/NDF : 3166.9/63

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 225.080 $\pm$ 0.049 χ^2 /NDF: 436424.1/14

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 202.105 $\pm$ 0.046 χ^2 /NDF: 395549.0/12

Left: 212.900 $\pm$ 0.033 χ^2 /NDF: 949749.9/27

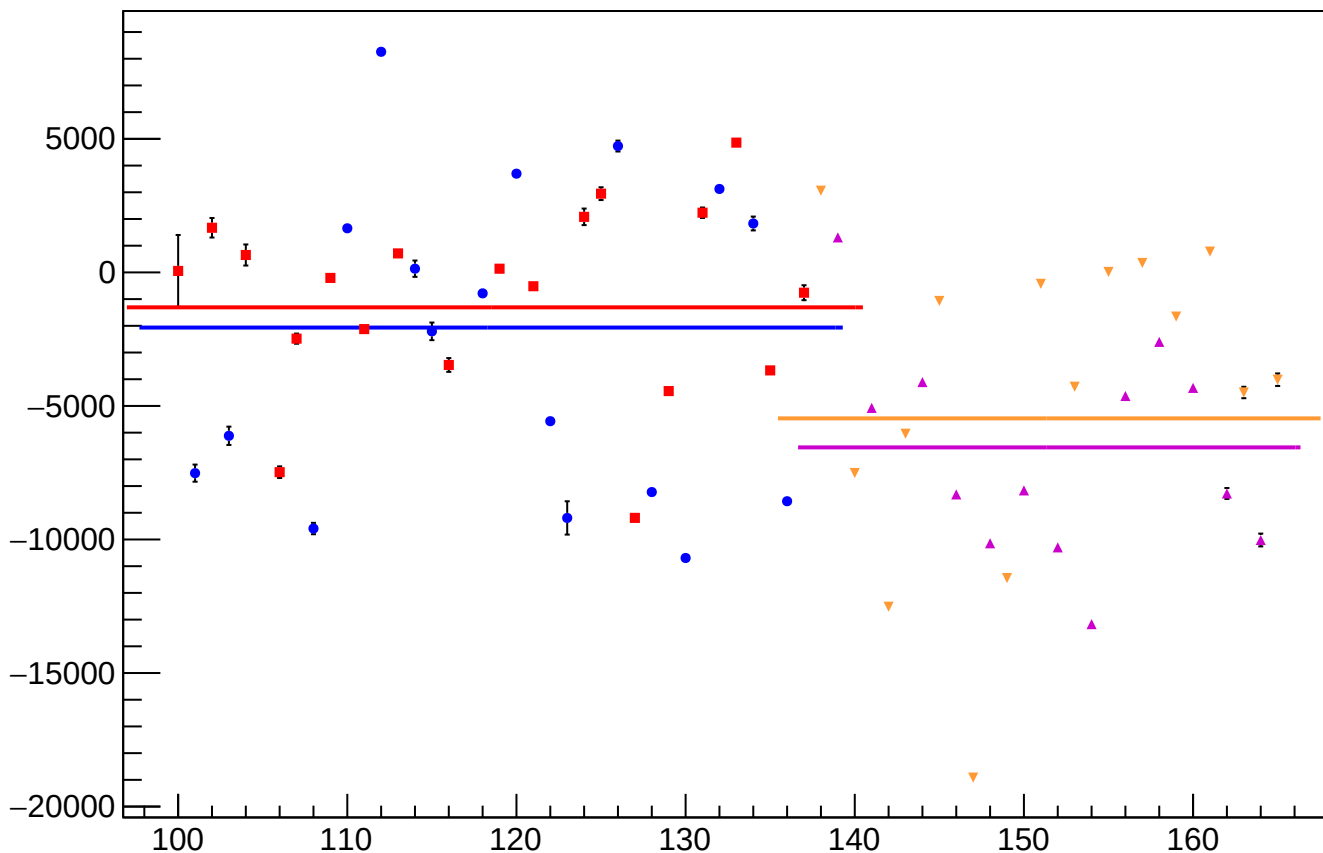
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 208.818 $\pm$ 0.037 χ^2 /NDF: 1102565.1/29

Out: 218.740 $\pm$ 0.037 χ^2 /NDF: 1361334.5/33

All: 213.735 $\pm$ 0.026 χ^2 /NDF: 2499485.1/63

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -5465.639+/-37.971 χ^2/NDF : 28201.0/14

Right Out: -1308.512+/-45.001 χ^2/NDF : 5894.4/18

Left In: -6551.895+/-39.417 χ^2/NDF : 8962.2/12

Left: -5988.468+/-27.347 χ^2/NDF : 37557.1/27

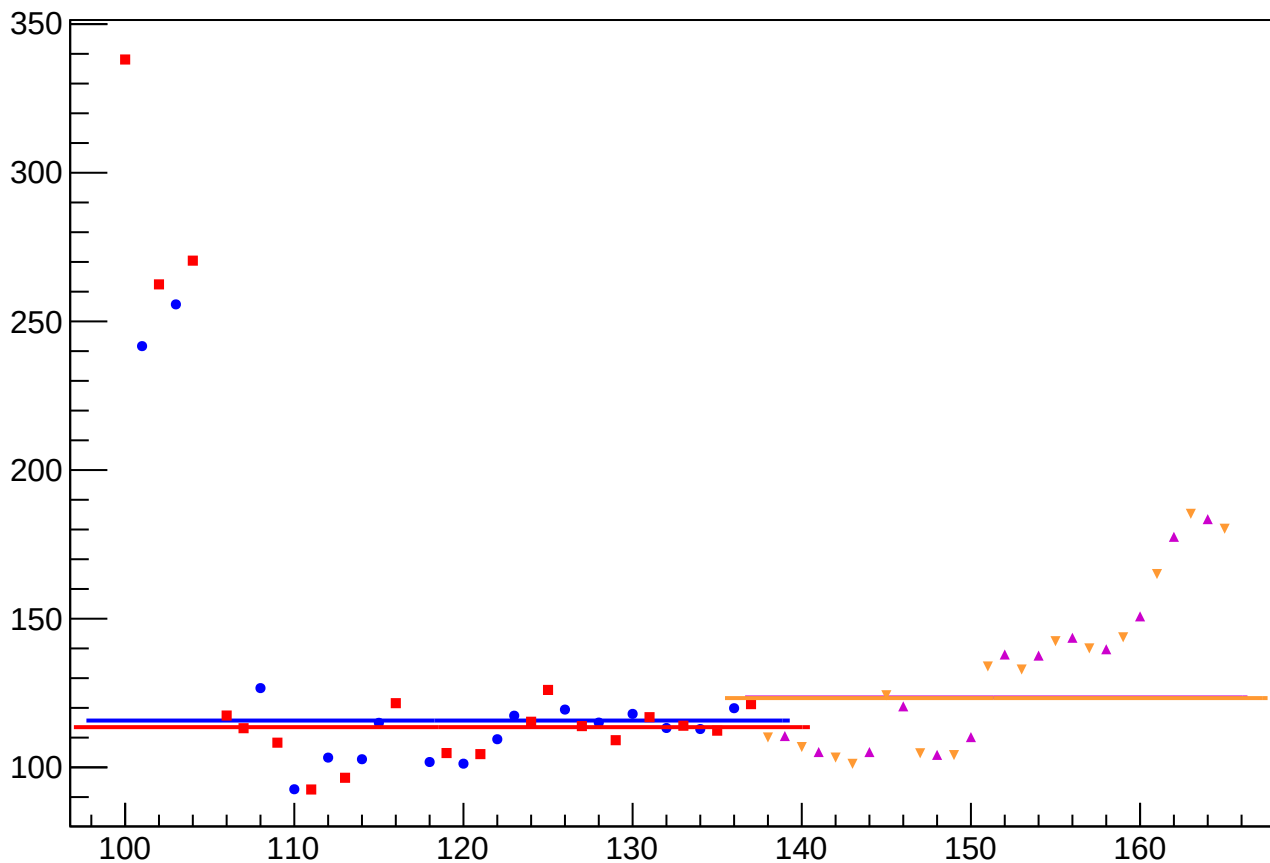
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4714.040+/-30.287 χ^2/NDF : 30802.7/29

Out: -3736.802+/-29.020 χ^2/NDF : 39080.2/33

All: -4204.561+/-20.954 χ^2/NDF : 70425.6/63

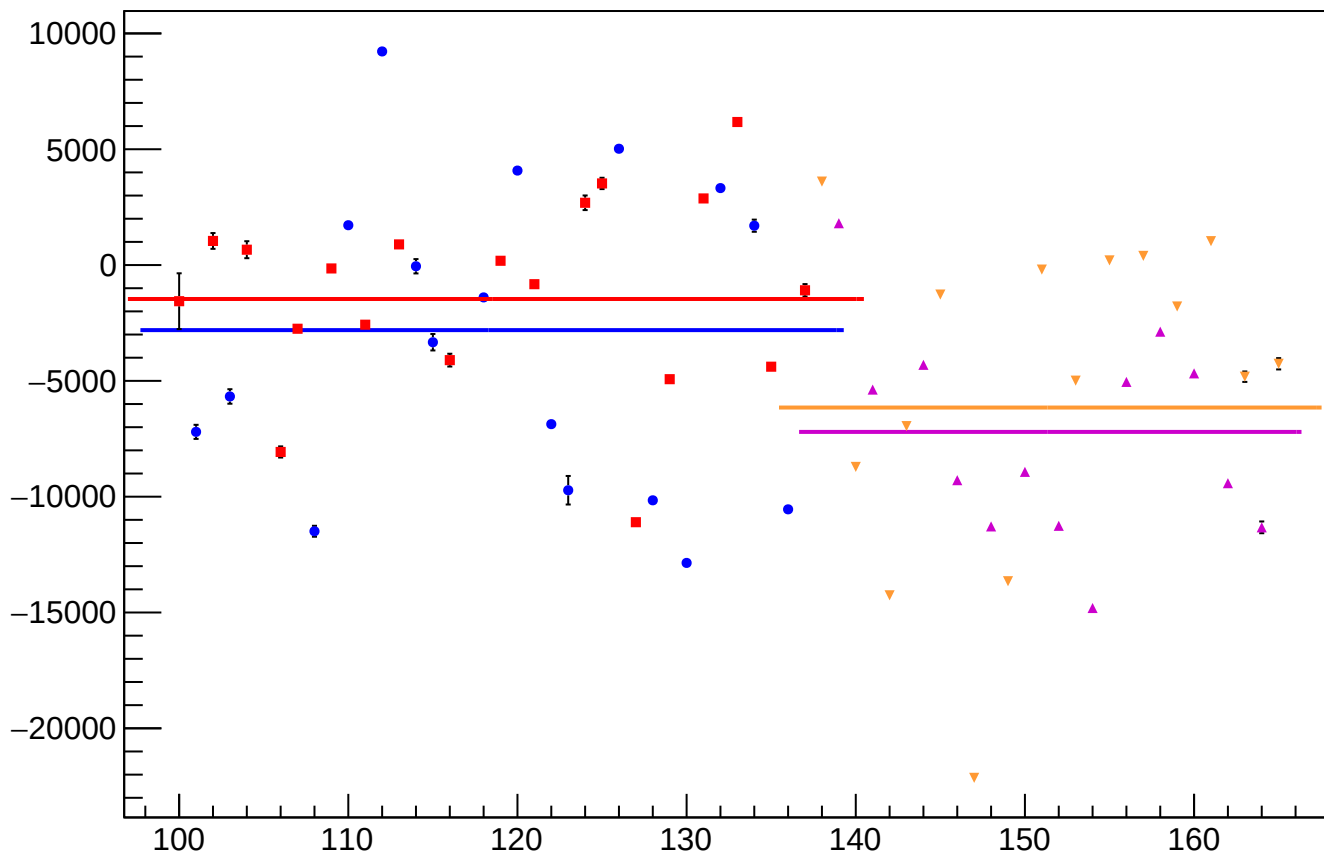
asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 ± 0.033 $\chi^2/\text{NDF}: 744017.7/16$
 Left Out: 123.295 ± 0.027 $\chi^2/\text{NDF}: 738157.9/14$
 Right Out: 113.519 ± 0.032 $\chi^2/\text{NDF}: 796640.6/18$
 Left In: 123.514 ± 0.028 $\chi^2/\text{NDF}: 604912.3/12$

Left: 123.400 ± 0.019 $\chi^2/\text{NDF}: 1343102.1/27$
 Right: 114.574 ± 0.023 $\chi^2/\text{NDF}: 1542972.7/35$
 In: 120.330 ± 0.021 $\chi^2/\text{NDF}: 1380787.8/29$
 Out: 119.229 ± 0.021 $\chi^2/\text{NDF}: 1589930.7/33$
 All: 119.756 ± 0.015 $\chi^2/\text{NDF}: 2972094.3/63$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -6151.261+/-40.306 χ^2/NDF : 34064.2/14

Right Out: -1465.074+/-46.394 χ^2/NDF : 8004.7/18

Left In: -7203.307+/-41.858 χ^2/NDF : 10584.9/12

Left: -6657.415+/-29.034 χ^2/NDF : 44976.9/27

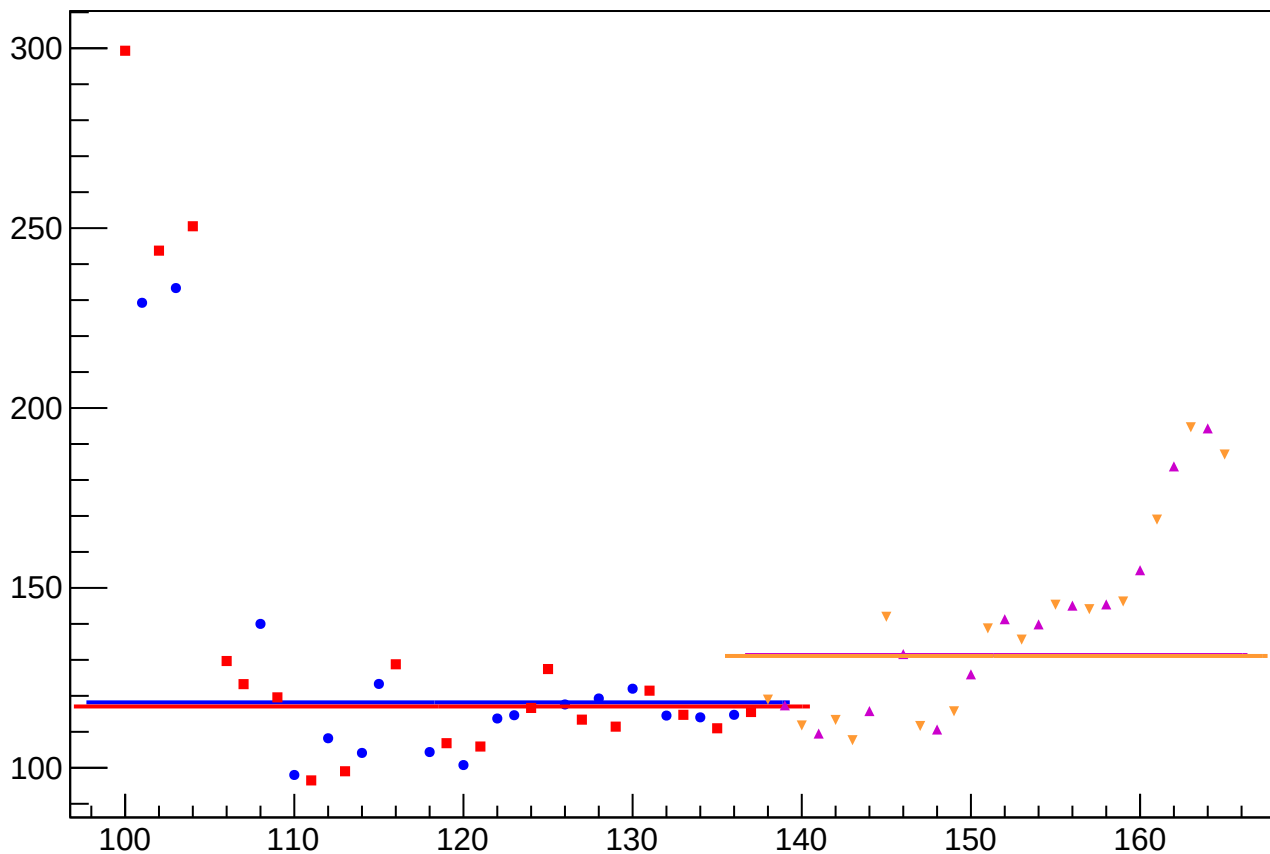
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5317.873+/-31.628 χ^2/NDF : 36576.6/29

Out: -4135.631+/-30.427 χ^2/NDF : 47883.1/33

All: -4703.881+/-21.928 χ^2/NDF : 85185.3/63

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 131.086+/-0.029 χ^2/NDF : 618440.9/14

Right Out: 117.046+/-0.033 χ^2/NDF : 690635.5/18

Left In: 131.356+/-0.030 χ^2/NDF : 498670.7/12

Left: 131.216+/-0.021 χ^2/NDF : 1117154.7/27

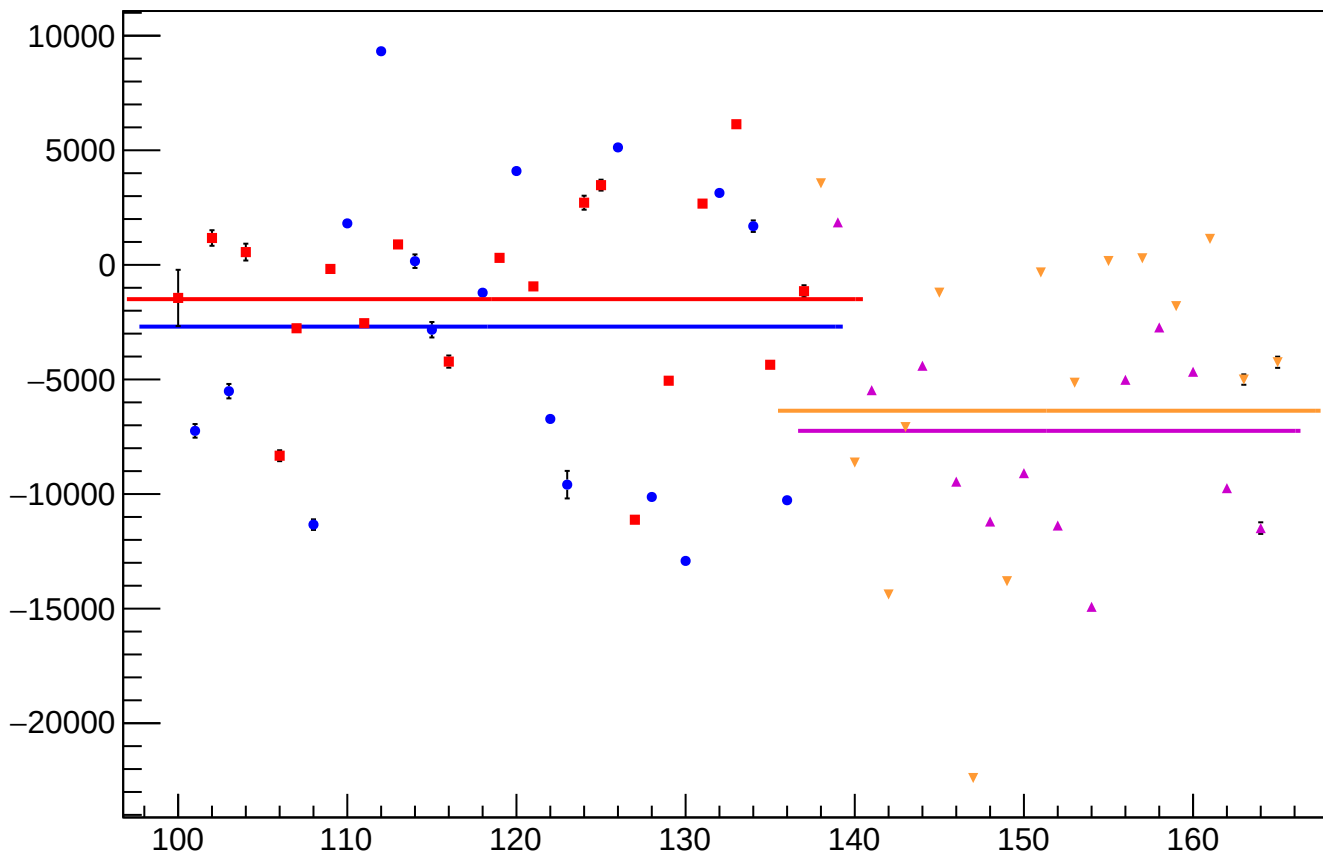
Right: 117.594+/-0.024 χ^2/NDF : 1327469.8/35

In: 125.706+/-0.022 χ^2/NDF : 1219841.4/29

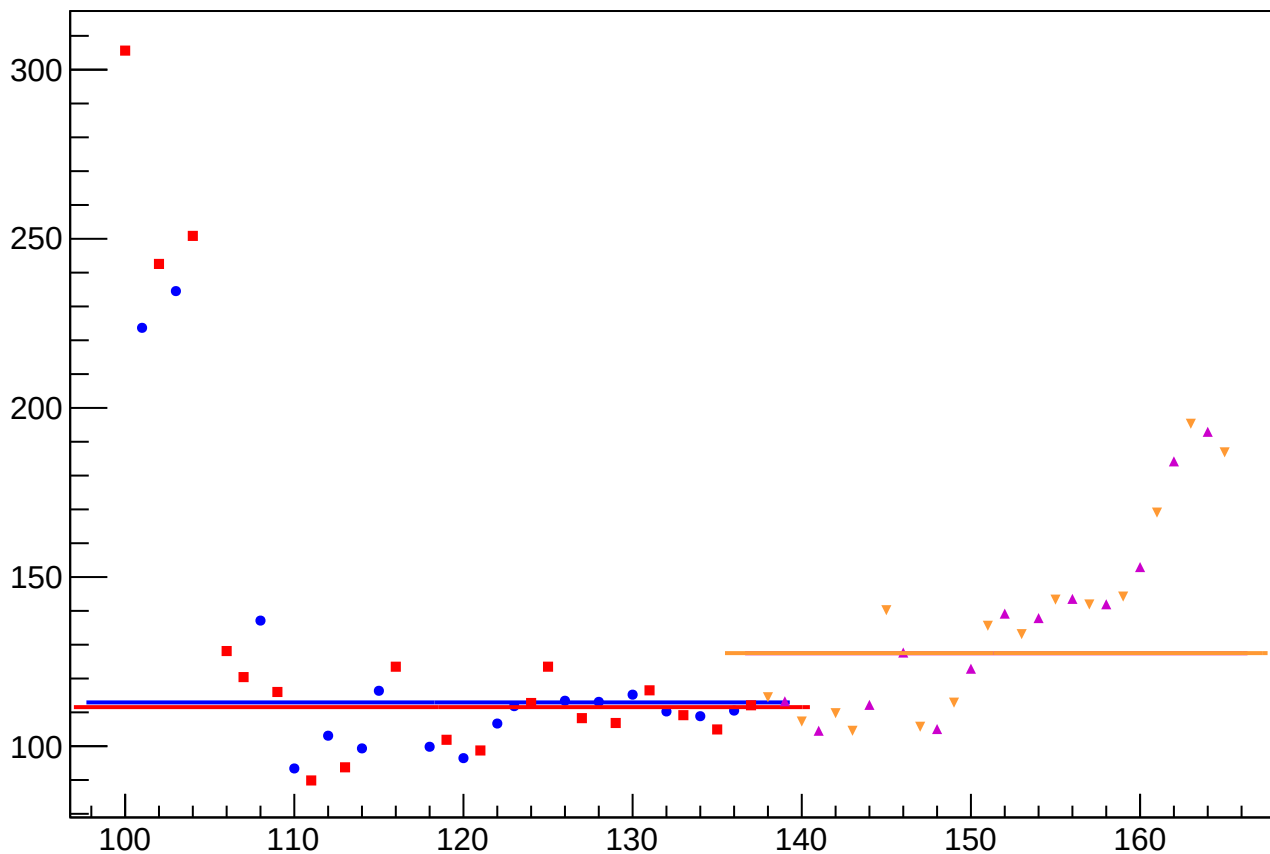
Out: 125.047+/-0.022 χ^2/NDF : 1413460.2/33

All: 125.364+/-0.016 χ^2/NDF : 2633752.6/63

asym_bpm2i02WS_mean vs Slug, Sign Corrected



asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 $\pm$ 0.033 χ^2 /NDF: 680283.1/16

Left Out: 127.511 $\pm$ 0.028 χ^2 /NDF: 715516.1/14

Right Out: 111.544 $\pm$ 0.031 χ^2 /NDF: 765502.6/18

Left In: 127.472 $\pm$ 0.029 χ^2 /NDF: 583174.4/12

Left: 127.492 $\pm$ 0.020 χ^2 /NDF: 1298691.4/27

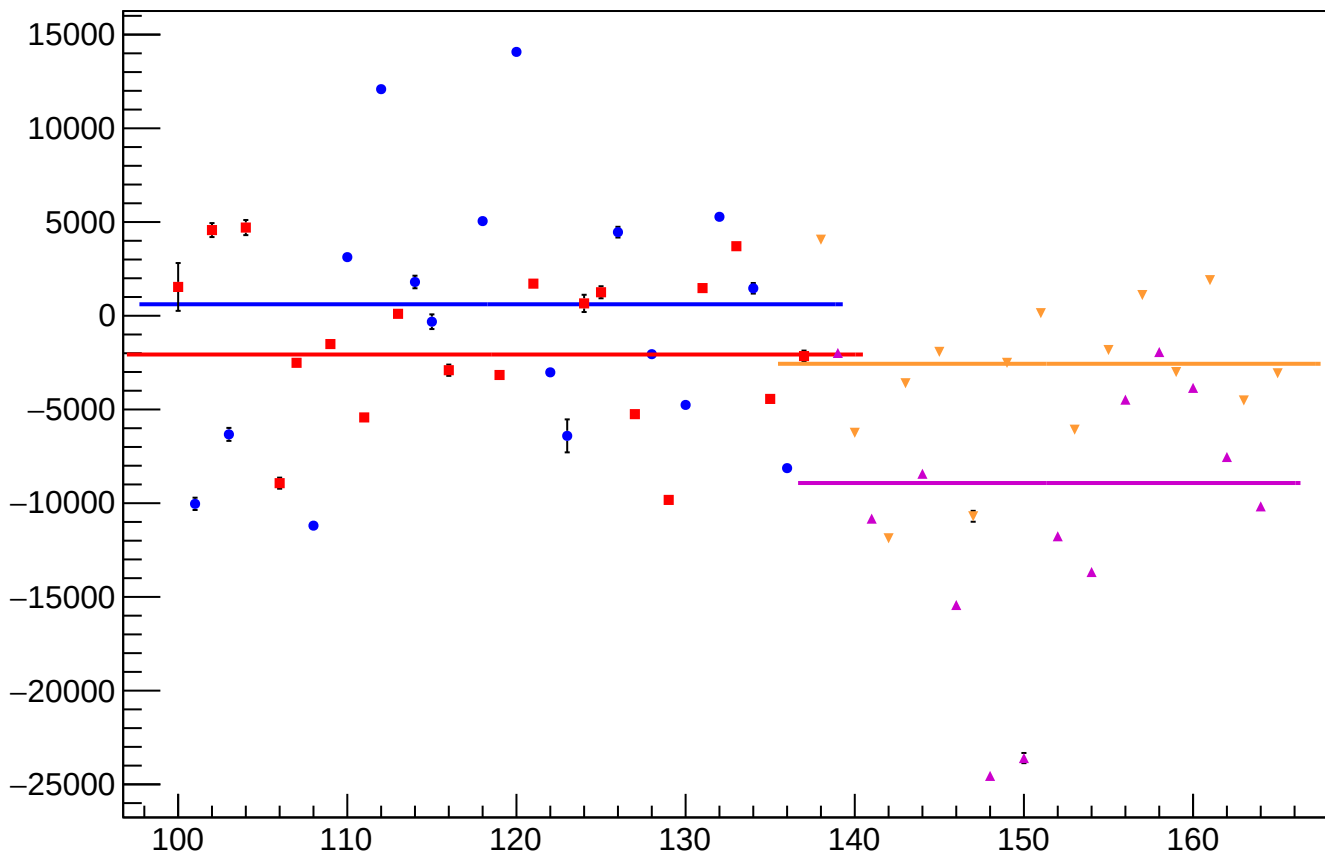
Right: 112.213 $\pm$ 0.023 χ^2 /NDF: 1446732.2/35

In: 121.136 $\pm$ 0.022 χ^2 /NDF: 1374336.9/29

Out: 120.498 $\pm$ 0.021 χ^2 /NDF: 1625776.3/33

All: 120.804 $\pm$ 0.015 χ^2 /NDF: 3000564.3/63

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -2562.476 ± 47.505 $\chi^2/\text{NDF}: 6741.5/14$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -8923.326 ± 50.862 $\chi^2/\text{NDF}: 13933.2/12$

Left: -5526.097 ± 34.718 $\chi^2/\text{NDF}: 29027.9/27$

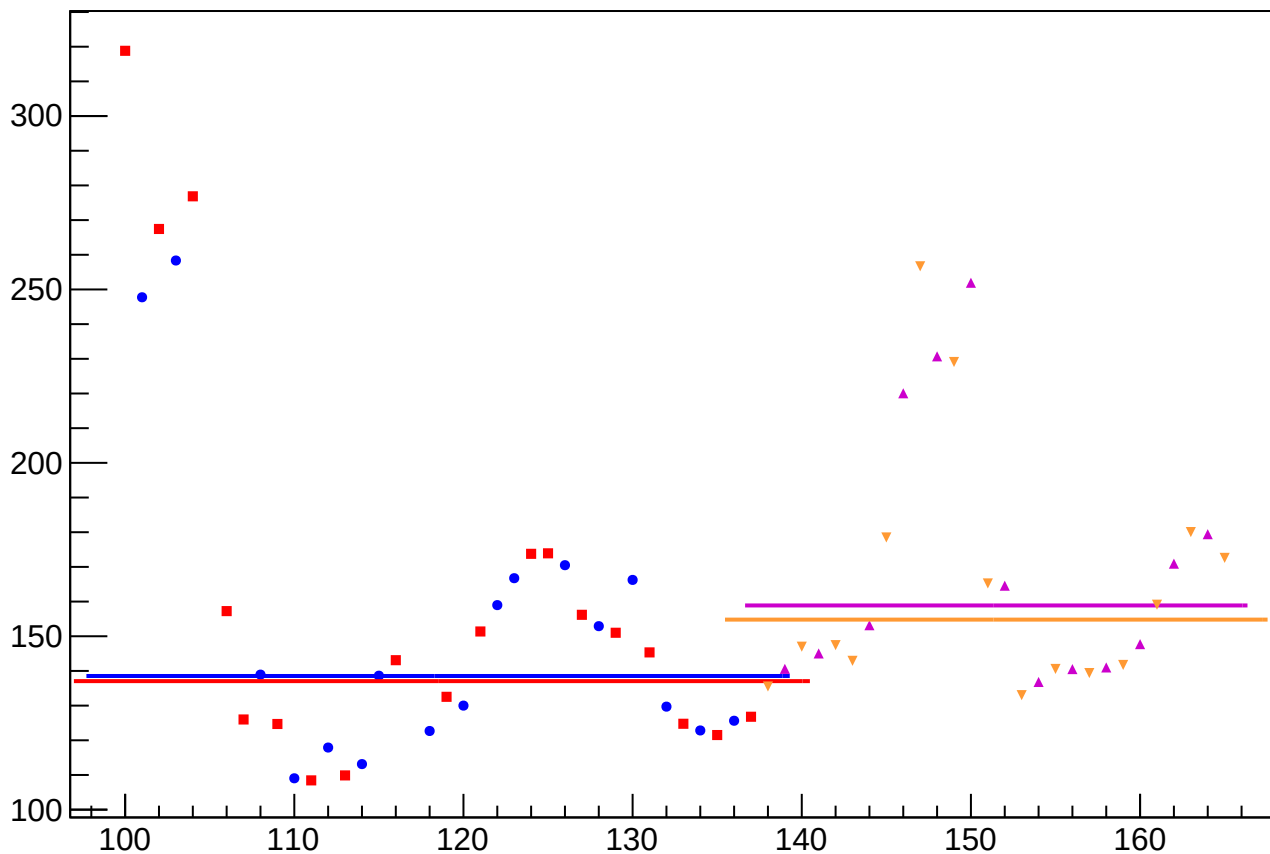
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4617.977 ± 37.669 $\chi^2/\text{NDF}: 48046.8/29$

Out: -2346.176 ± 35.648 $\chi^2/\text{NDF}: 11431.7/33$

All: -3419.483 ± 25.892 $\chi^2/\text{NDF}: 61397.2/63$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 154.800 $\pm$ 0.034 χ^2 /NDF: 624681.0/14

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 158.882 $\pm$ 0.036 χ^2 /NDF: 679978.4/12

Left: 156.702 $\pm$ 0.025 χ^2 /NDF: 1311541.4/27

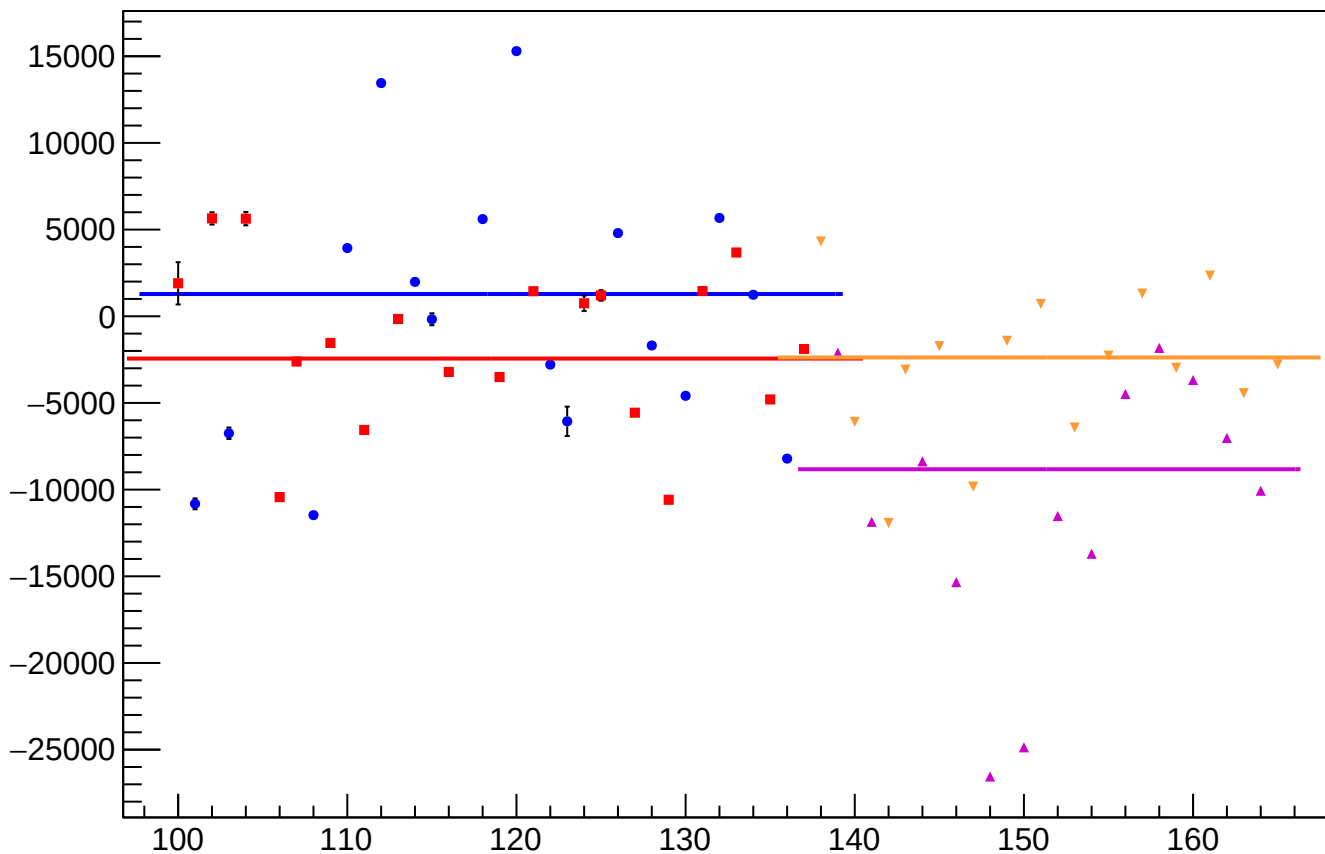
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 149.699 $\pm$ 0.027 χ^2 /NDF: 1493331.9/29

Out: 147.049 $\pm$ 0.025 χ^2 /NDF: 1502011.1/33

All: 148.301 $\pm$ 0.018 χ^2 /NDF: 3000562.5/63

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978 $\pm$ 46.572 χ^2/NDF : 30540.8/16

Left Out: -2377.868 $\pm$ 42.252 χ^2/NDF : 9049.2/14

Right Out: -2440.256 $\pm$ 44.286 χ^2/NDF : 7677.5/18

Left In: -8823.860 $\pm$ 45.324 χ^2/NDF : 18670.6/12

Left: -5375.077 $\pm$ 30.906 χ^2/NDF : 38541.8/27

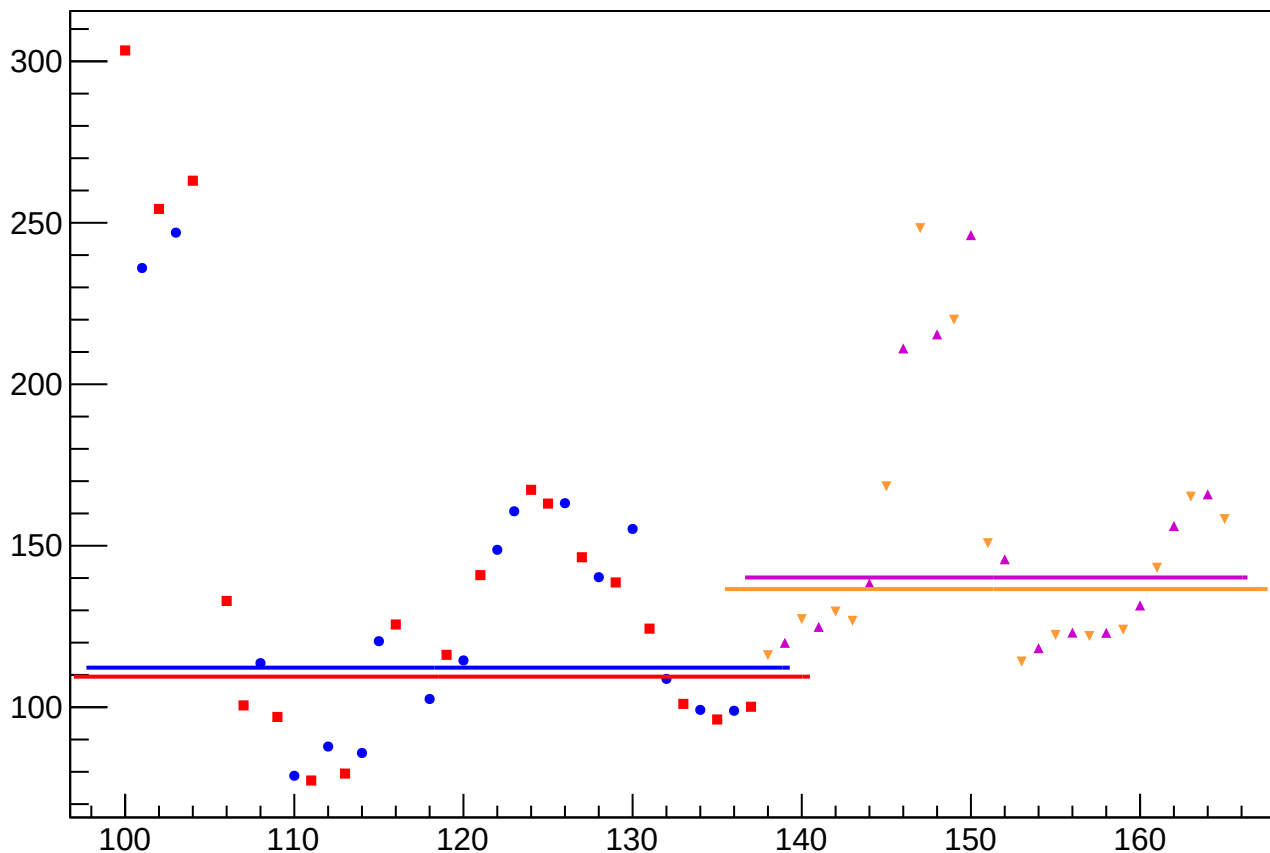
Right: -672.266 $\pm$ 32.093 χ^2/NDF : 41574.7/35

In: -3907.734 $\pm$ 32.481 χ^2/NDF : 73398.8/29

Out: -2407.597 $\pm$ 30.571 χ^2/NDF : 16727.8/33

All: -3112.252 $\pm$ 22.261 χ^2/NDF : 91257.7/63

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 136.588+/-0.030 χ^2/NDF : 864492.4/14

Right Out: 109.460+/-0.031 χ^2/NDF : 1269633.4/18

Left In: 140.172+/-0.032 χ^2/NDF : 920934.5/12

Left: 138.254+/-0.022 χ^2/NDF : 1792120.5/27

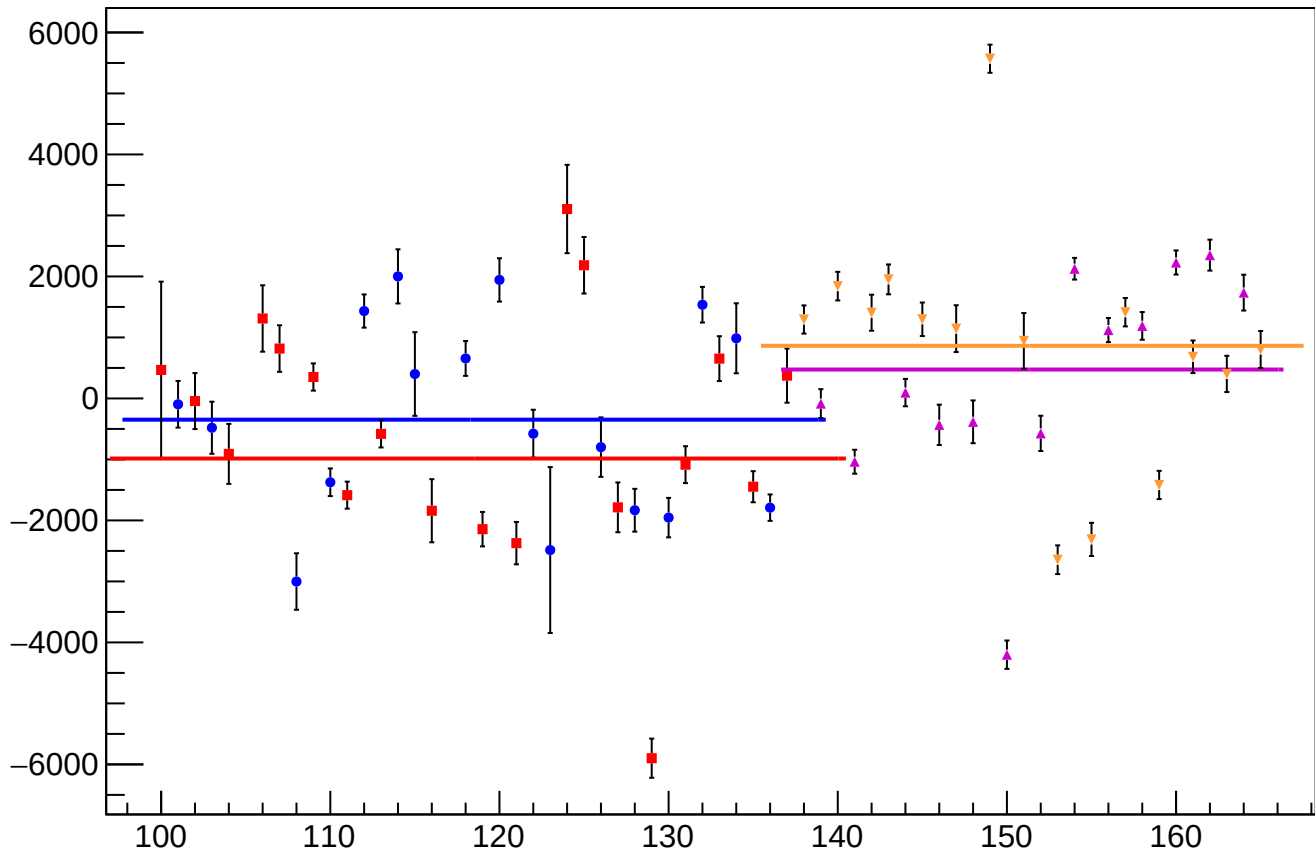
Right: 110.785+/-0.023 χ^2/NDF : 2398941.6/35

In: 126.591+/-0.023 χ^2/NDF : 2415678.0/29

Out: 123.661+/-0.022 χ^2/NDF : 2526971.6/33

All: 125.037+/-0.016 χ^2/NDF : 4951277.9/63

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Left: 656.861 ± 46.932 χ^2/NDF : 1702.1/27

Right: -690.850 ± 56.978 χ^2/NDF : 824.9/35

In: 168.366 ± 51.113 χ^2/NDF : 1134.4/29

Out: 55.304 ± 51.350 χ^2/NDF : 1723.5/33

All: 112.097 ± 36.226 χ^2/NDF : 2860.3/63

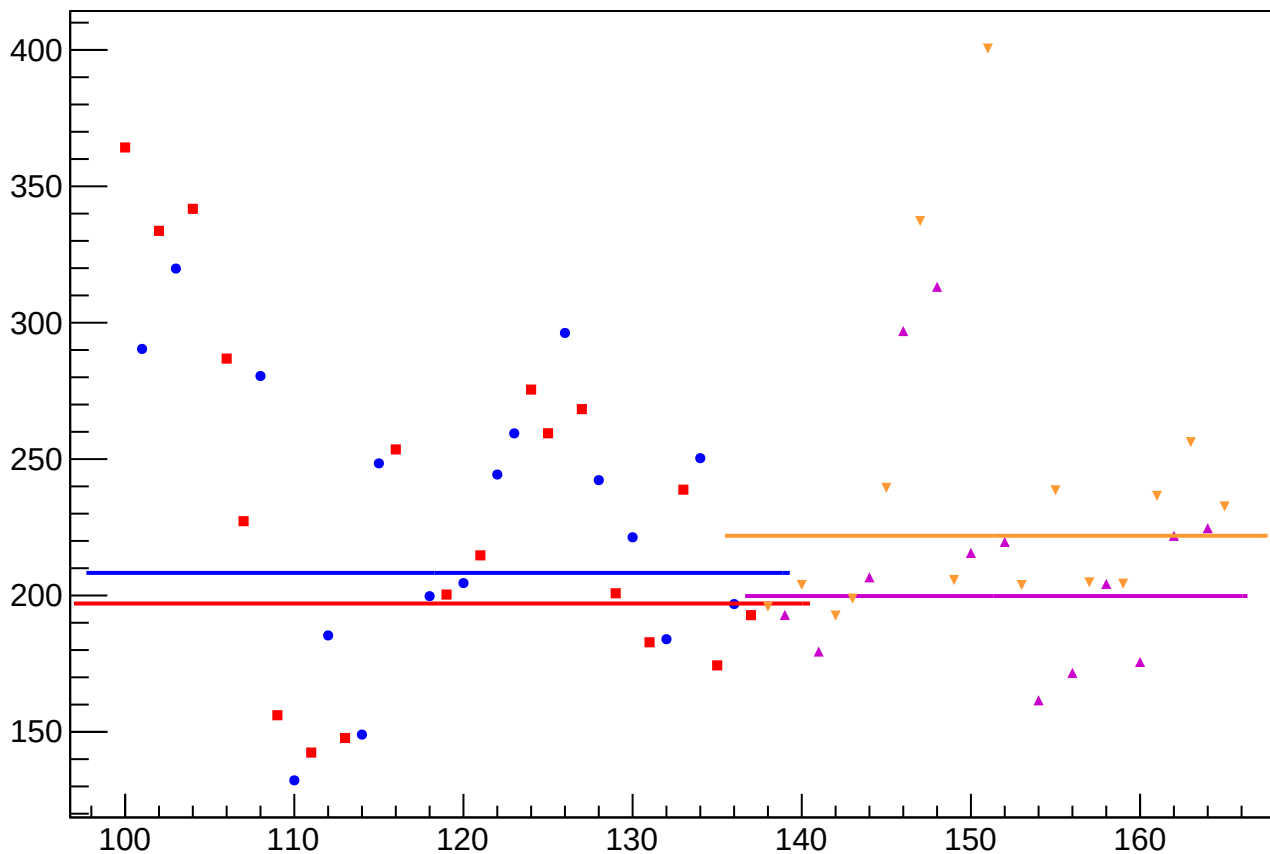
Right In: -348.055 ± 83.826 χ^2/NDF : 317.3/16

Left Out: 862.786 ± 68.432 χ^2/NDF : 928.3/14

Right Out: -985.242 ± 77.683 χ^2/NDF : 476.6/18

Left In: 473.994 ± 64.487 χ^2/NDF : 756.7/12

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288 $\pm$ 0.059 χ^2/NDF : 698491.0/16

Left Out: 221.900 $\pm$ 0.048 χ^2/NDF : 655350.1/14

Right Out: 197.051 $\pm$ 0.055 χ^2/NDF : 926786.6/18

Left In: 199.799 $\pm$ 0.046 χ^2/NDF : 617978.9/12

Left: 210.194 $\pm$ 0.033 χ^2/NDF : 1383822.9/27

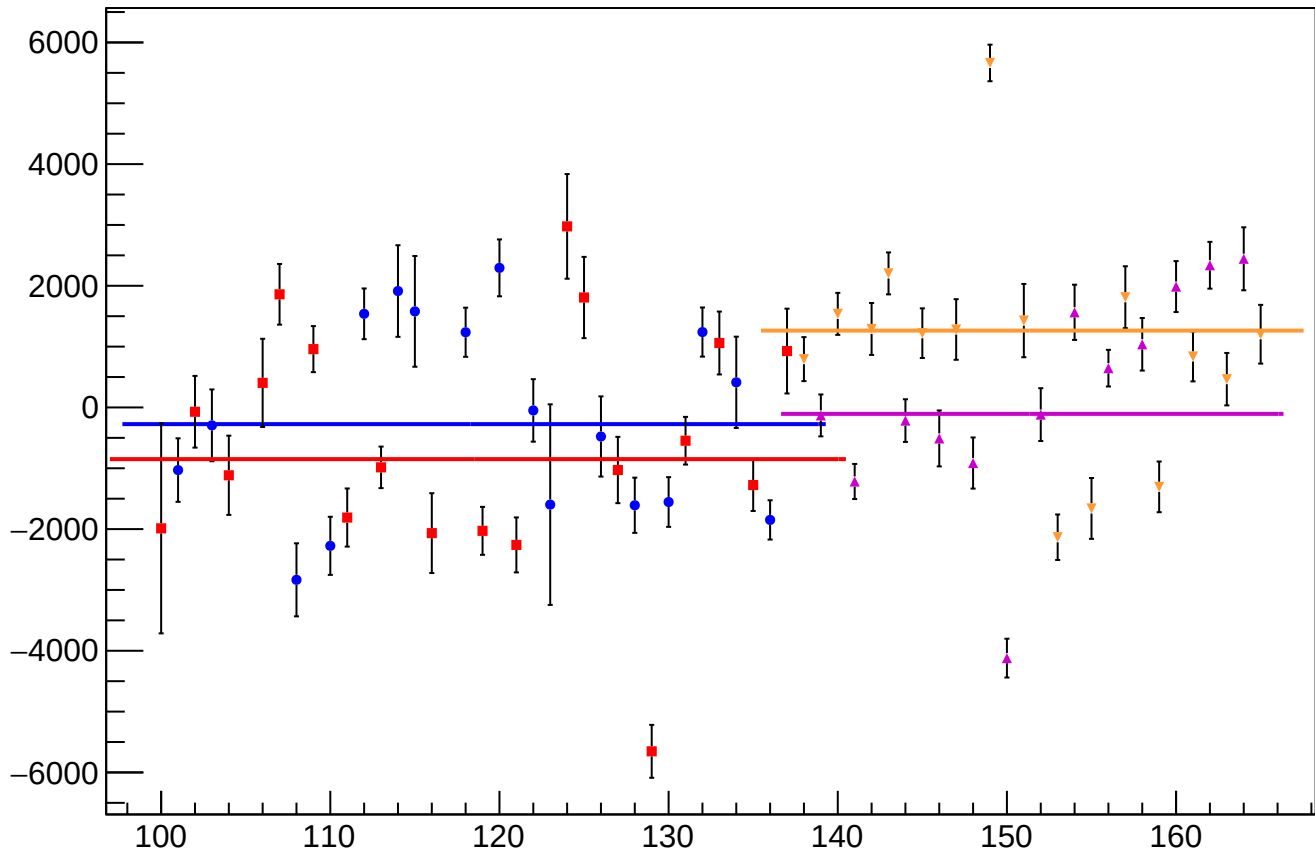
Right: 202.243 $\pm$ 0.040 χ^2/NDF : 1644610.3/35

In: 202.955 $\pm$ 0.036 χ^2/NDF : 1329354.7/29

Out: 211.042 $\pm$ 0.036 χ^2/NDF : 1697361.4/33

All: 206.980 $\pm$ 0.026 χ^2/NDF : 3051638.5/63

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 $\pm$ 121.326 χ^2 /NDF: 171.6/16

Left Out: 1263.554 $\pm$ 105.288 χ^2 /NDF:384.7/14

Right Out: -849.413 $\pm$ 115.349 χ^2 /NDF: 263.3/18

Left In: -105.696 $\pm$ 104.524 χ^2 /NDF:294.1/12

Left: 573.945 $\pm$ 74.178 χ^2 /NDF: 763.9/27

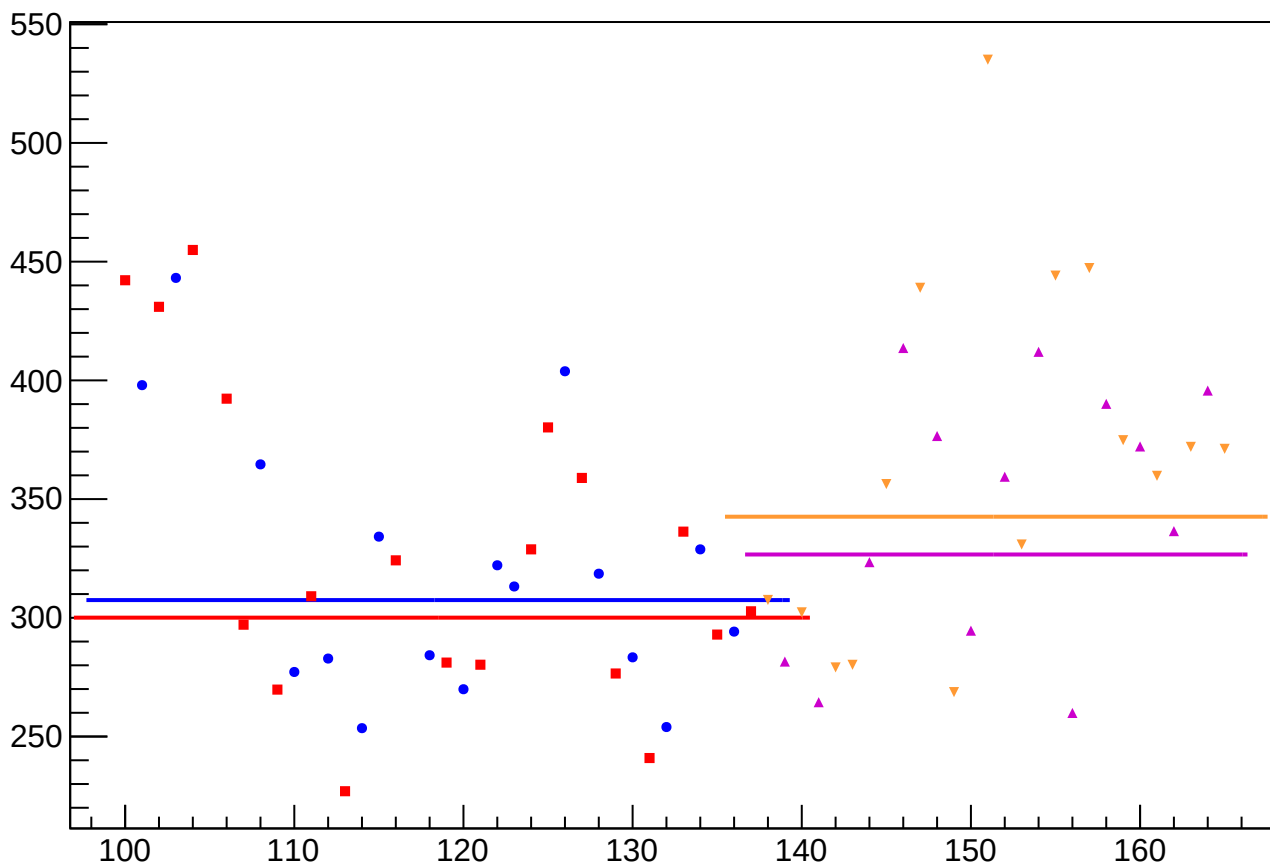
Right: -576.352 $\pm$ 83.597 χ^2 /NDF: 446.6/35

In: -177.507 $\pm$ 79.189 χ^2 /NDF:466.8/29

Out: 303.219 $\pm$ 77.764 χ^2 /NDF:831.0/33

All: 67.222 $\pm$ 55.485 χ^2 /NDF: 1316.5/63

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2 /NDF: 323096.7/16

Left Out: 342.584 $\pm$ 0.074 χ^2 /NDF: 758858.5/14

Right Out: 300.069 $\pm$ 0.082 χ^2 /NDF: 490398.9/18

Left In: 326.669 $\pm$ 0.074 χ^2 /NDF: 531457.6/12

Left: 334.569 $\pm$ 0.052 χ^2 /NDF: 1313328.6/27

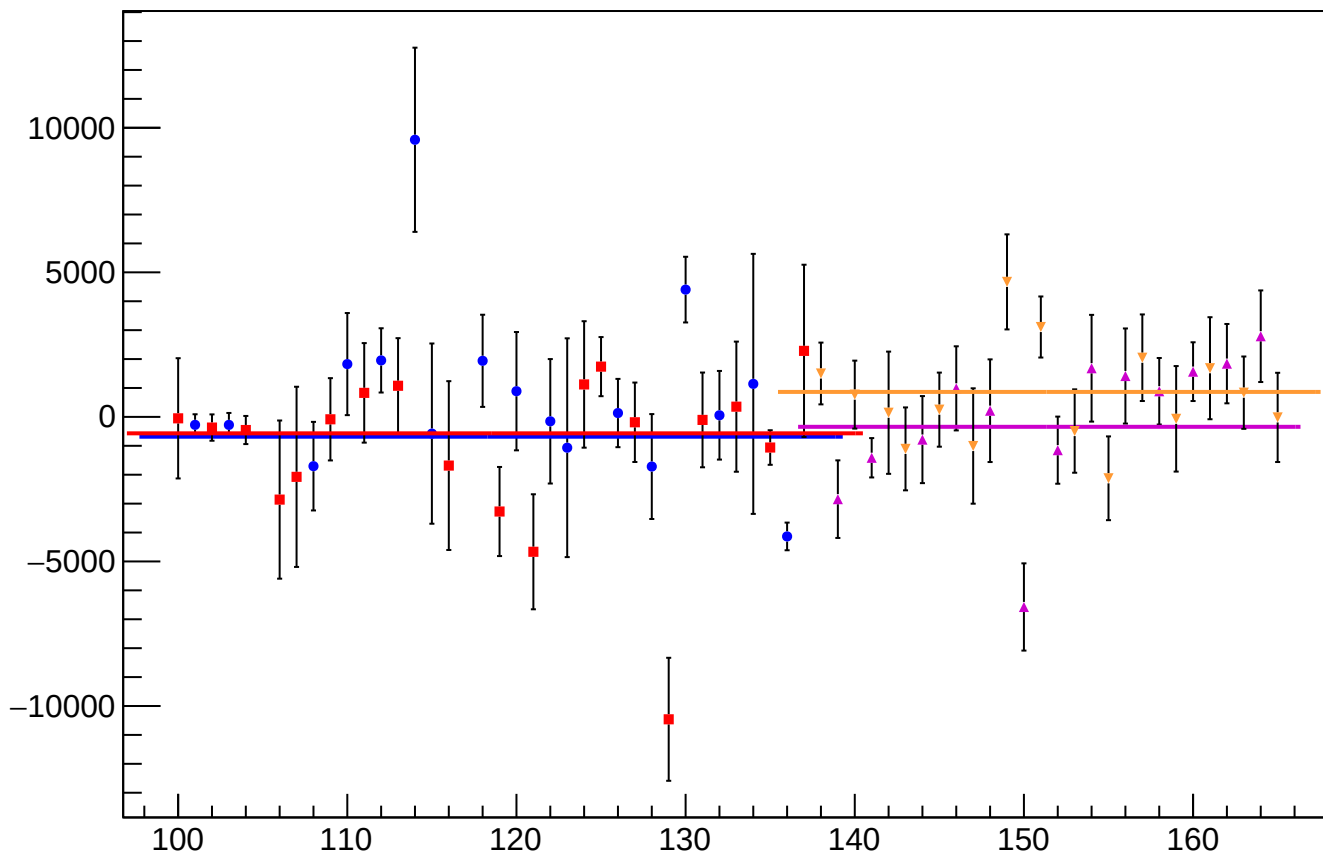
Right: 303.582 $\pm$ 0.059 χ^2 /NDF: 817401.9/35

In: 318.489 $\pm$ 0.056 χ^2 /NDF: 883307.9/29

Out: 323.261 $\pm$ 0.055 χ^2 /NDF: 1397464.6/33

All: 320.919 $\pm$ 0.039 χ^2 /NDF: 2284469.6/63

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 ± 210.341 χ^2/NDF : 97.4/16

Left Out: 863.829 ± 364.651 χ^2/NDF : 19.9/14

Right Out: -568.651 ± 243.251 χ^2/NDF : 39.7/18

Left In: -343.017 ± 344.144 χ^2/NDF : 38.0/12

Left: 225.520 ± 250.282 χ^2/NDF : 63.7/27

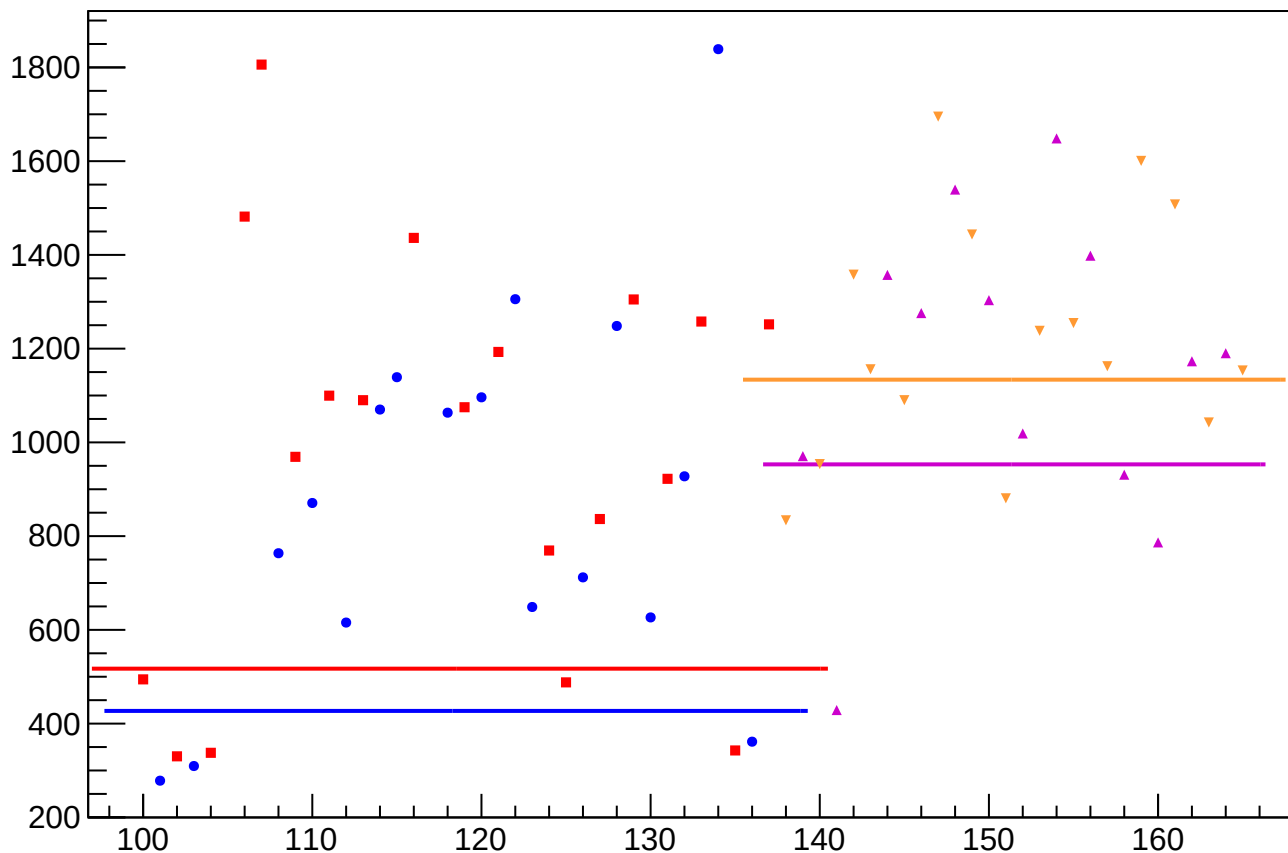
Right: -635.255 ± 159.106 χ^2/NDF : 137.2/35

In: -592.032 ± 179.473 χ^2/NDF : 136.1/29

Out: -127.509 ± 202.359 χ^2/NDF : 70.3/33

All: -387.513 ± 134.272 χ^2/NDF : 209.3/63

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079 +/- 0.149 χ^2/NDF : 2865678.7/16

Left Out: 1133.831 +/- 0.258 χ^2/NDF : 830836.9/14

Right Out: 517.234 +/- 0.172 χ^2/NDF : 3605111.9/18

Left In: 953.092 +/- 0.243 χ^2/NDF : 2342742.2/12

Left: 1038.237 +/- 0.177 χ^2/NDF : 3433449.4/27

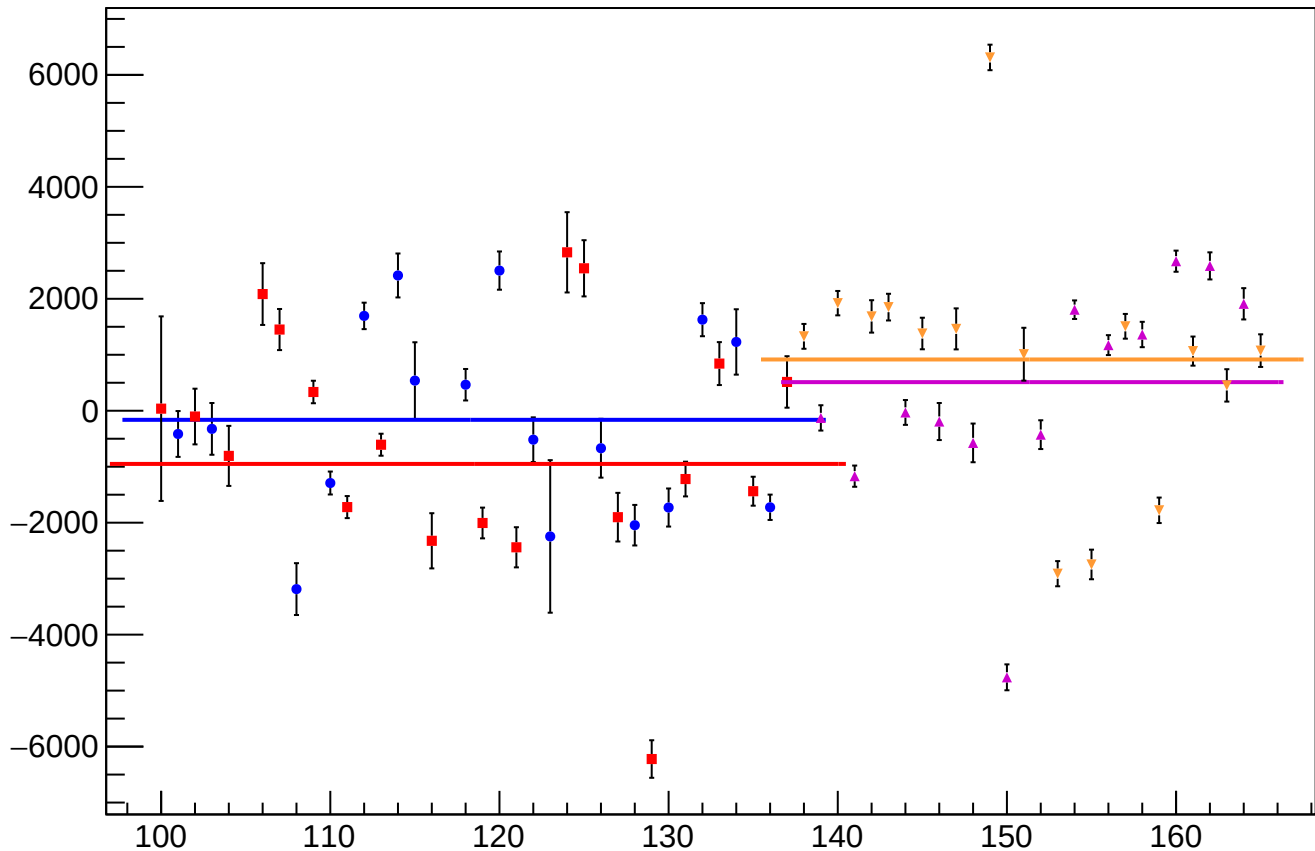
Right: 465.650 +/- 0.113 χ^2/NDF : 6627982.5/35

In: 570.138 +/- 0.127 χ^2/NDF : 8610093.0/29

Out: 707.119 +/- 0.143 χ^2/NDF : 8393357.4/33

All: 630.447 +/- 0.095 χ^2/NDF : 17516411.1/63

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333 ± 82.350 χ^2/NDF : 387.6/16

Left Out: 915.821 ± 66.368 χ^2/NDF : 1244.2/14

Right Out: -950.093 ± 75.133 χ^2/NDF : 539.8/18

Left In: 510.999 ± 61.507 χ^2/NDF : 958.0/12

Left: 698.041 ± 45.113 χ^2/NDF : 2222.2/27

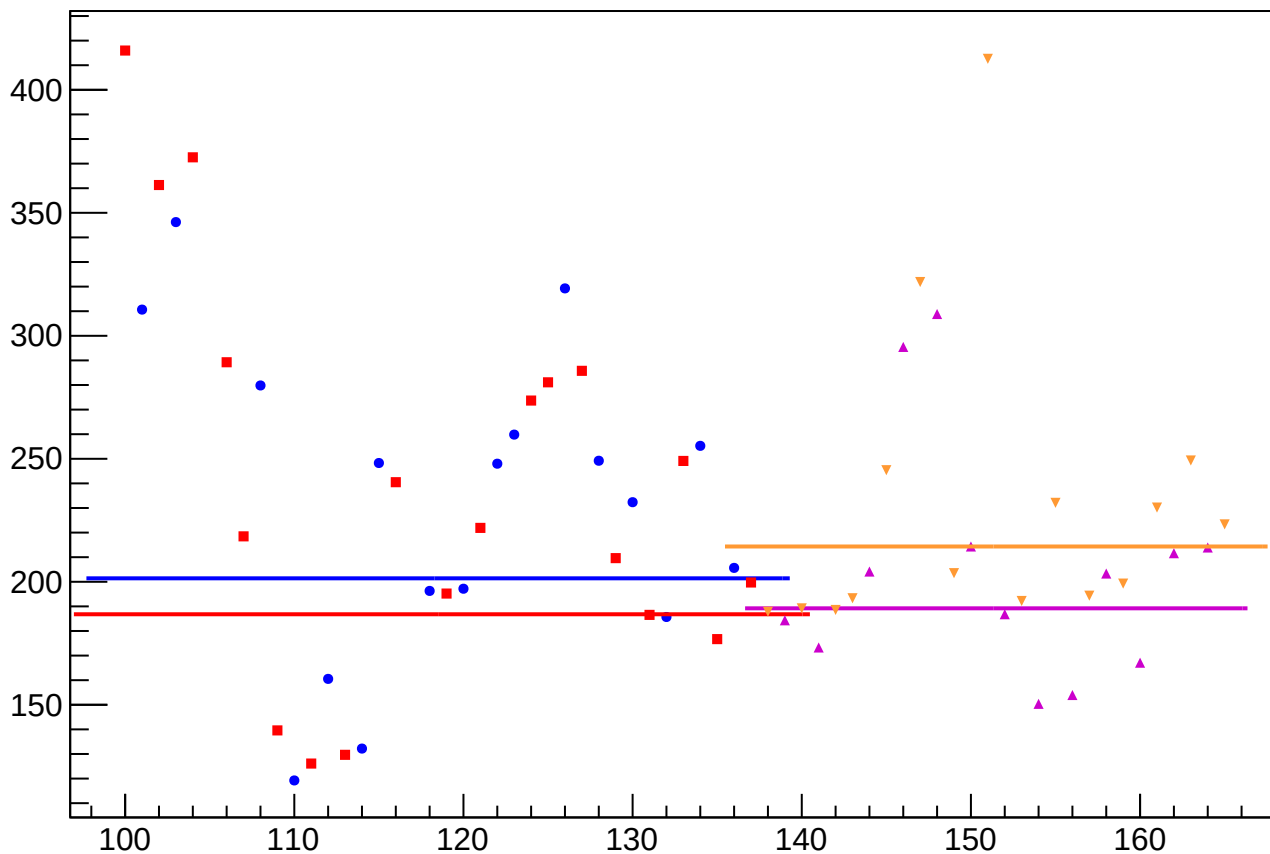
Right: -592.238 ± 55.504 χ^2/NDF : 977.3/35

In: 269.887 ± 49.279 χ^2/NDF : 1388.5/29

Out: 97.999 ± 49.741 χ^2/NDF : 2130.4/33

All: 184.746 ± 35.008 χ^2/NDF : 3524.9/63

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 ± 0.058 $\chi^2/\text{NDF}: 1056022.1/16$

Left Out: 214.348 ± 0.047 $\chi^2/\text{NDF}: 732731.8/14$

Right Out: 186.797 ± 0.053 $\chi^2/\text{NDF}: 1393162.0/18$

Left In: 189.213 ± 0.043 $\chi^2/\text{NDF}: 749936.1/12$

Left: 200.826 ± 0.032 $\chi^2/\text{NDF}: 1636989.8/27$

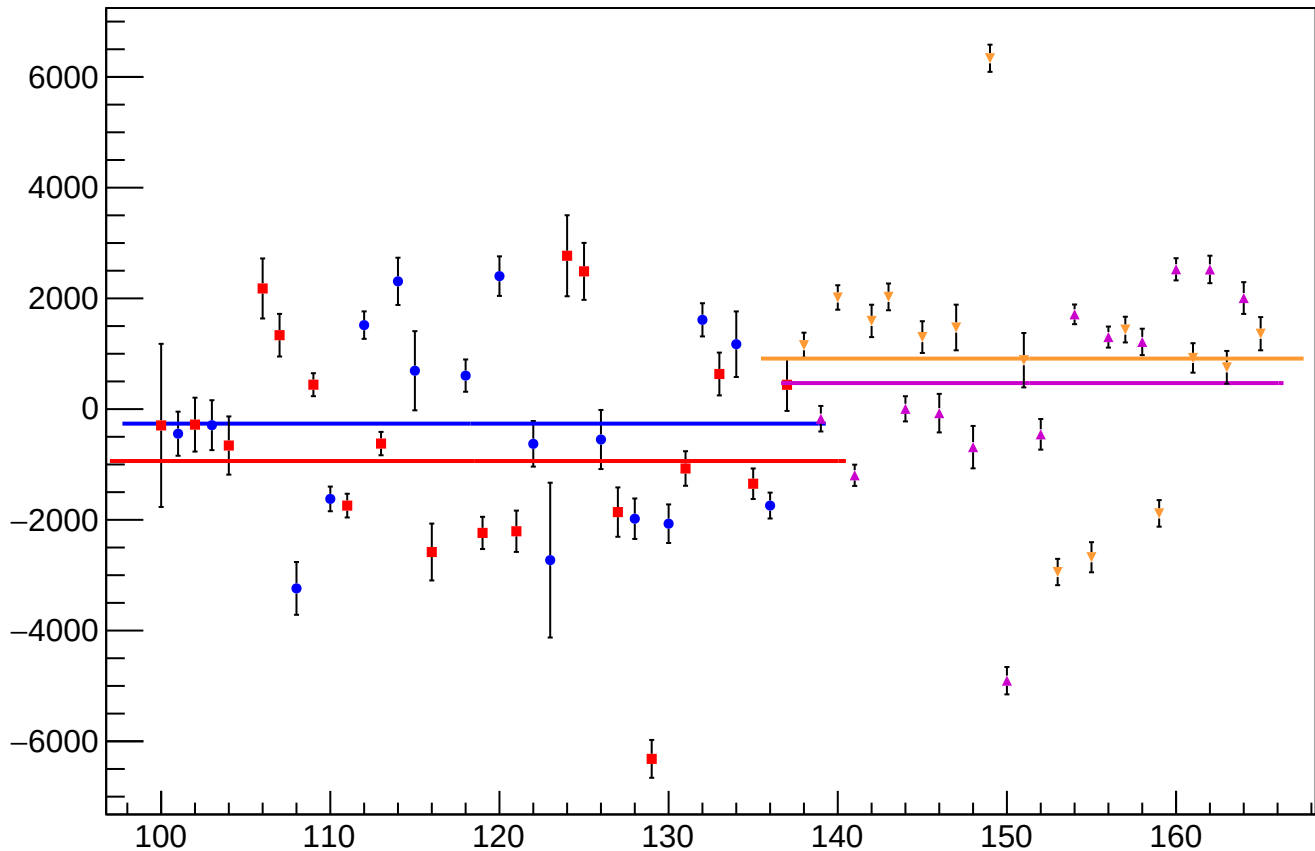
Right: 193.435 ± 0.039 $\chi^2/\text{NDF}: 2483546.7/35$

In: 193.580 ± 0.035 $\chi^2/\text{NDF}: 1834118.5/29$

Out: 202.273 ± 0.035 $\chi^2/\text{NDF}: 2276950.0/33$

All: 197.886 ± 0.025 $\chi^2/\text{NDF}: 4141893.2/63$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324 ± 85.433 $\chi^2/\text{NDF}: 368.7/16$

Left Out: 912.998 ± 68.800 $\chi^2/\text{NDF}: 1124.3/14$

Right Out: -937.678 ± 78.434 $\chi^2/\text{NDF}: 521.9/18$

Left In: 470.367 ± 64.563 $\chi^2/\text{NDF}: 862.0/12$

Left: 677.632 ± 47.079 $\chi^2/\text{NDF}: 2008.3/27$

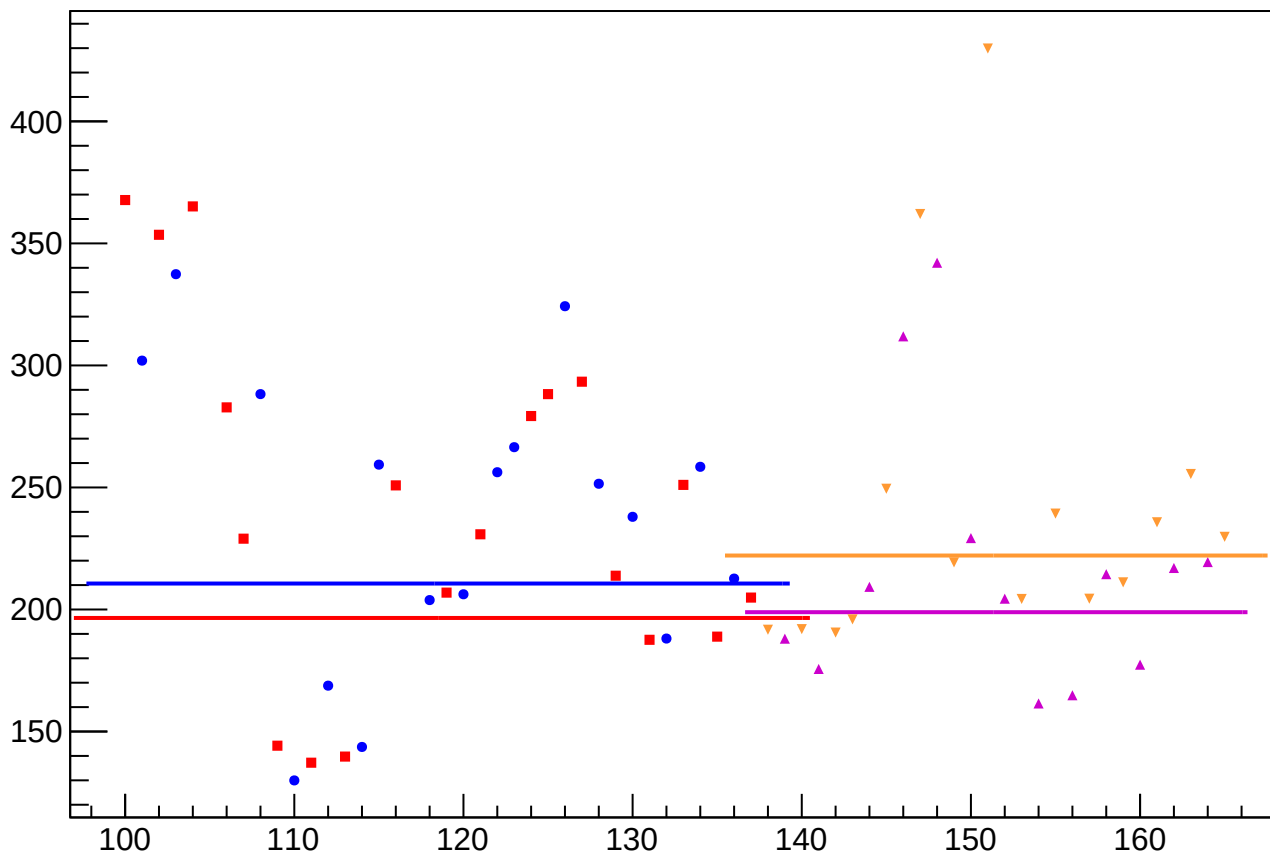
Right: -628.795 ± 57.777 $\chi^2/\text{NDF}: 924.5/35$

In: 204.034 ± 51.509 $\chi^2/\text{NDF}: 1277.5/29$

Out: 108.240 ± 51.722 $\chi^2/\text{NDF}: 1960.9/33$

All: 156.334 ± 36.497 $\chi^2/\text{NDF}: 3240.1/63$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 222.112+/-0.049 χ^2/NDF : 793495.0/14

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 198.895+/-0.046 χ^2/NDF : 764190.5/12

Left: 209.767+/-0.033 χ^2/NDF : 1678785.5/27

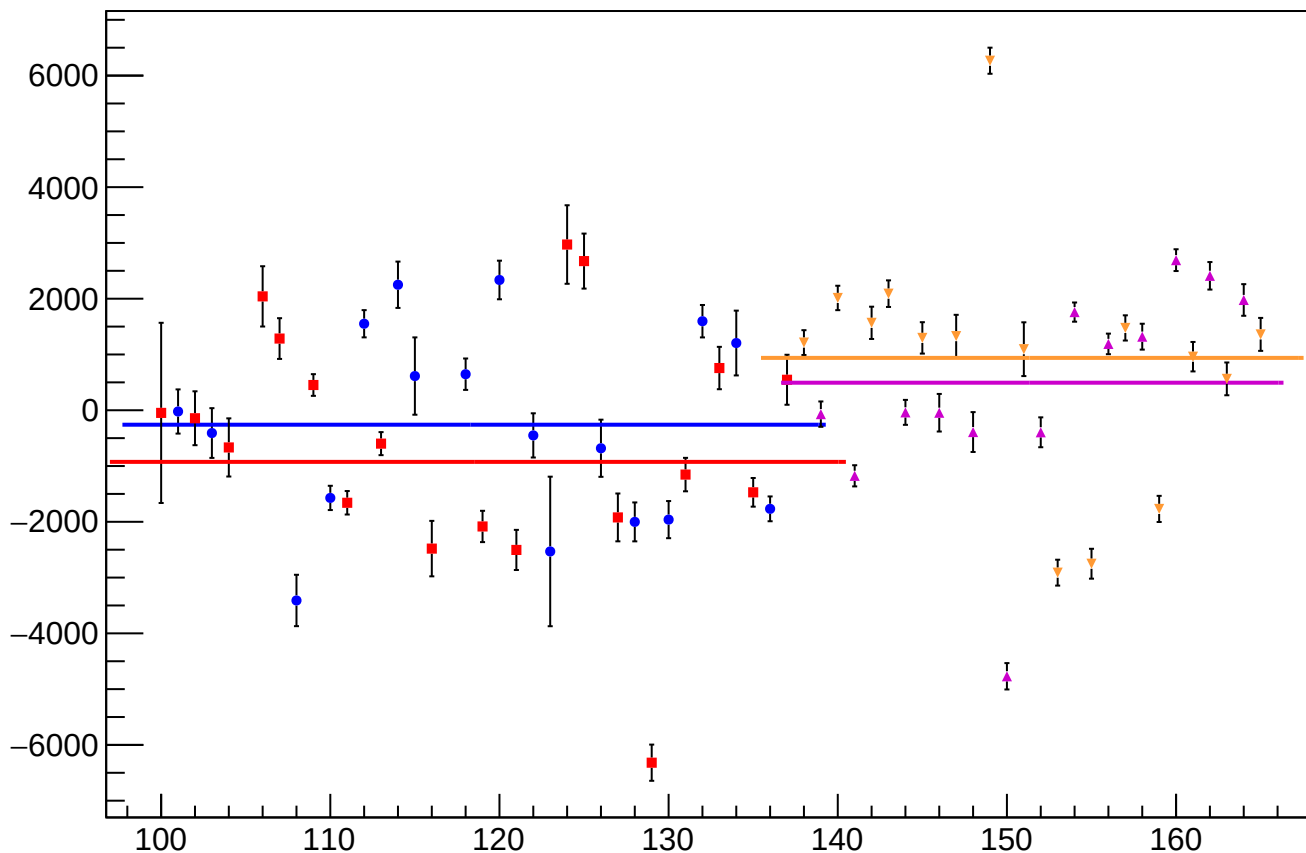
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 203.163+/-0.036 χ^2/NDF : 1664007.3/29

Out: 210.987+/-0.037 χ^2/NDF : 2118843.2/33

All: 207.059+/-0.026 χ^2/NDF : 3805827.1/63

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139+/-82.802 χ^2/NDF : 391.2/16

Left Out: 938.837+/-67.374 χ^2/NDF :1182.9/14

Right Out: -925.534+/-75.503 χ^2/NDF : 581.9/18

Left In: 493.819+/-62.949 χ^2/NDF :899.9/12

Left: 701.236+/-45.996 χ^2/NDF : 2106.1/27

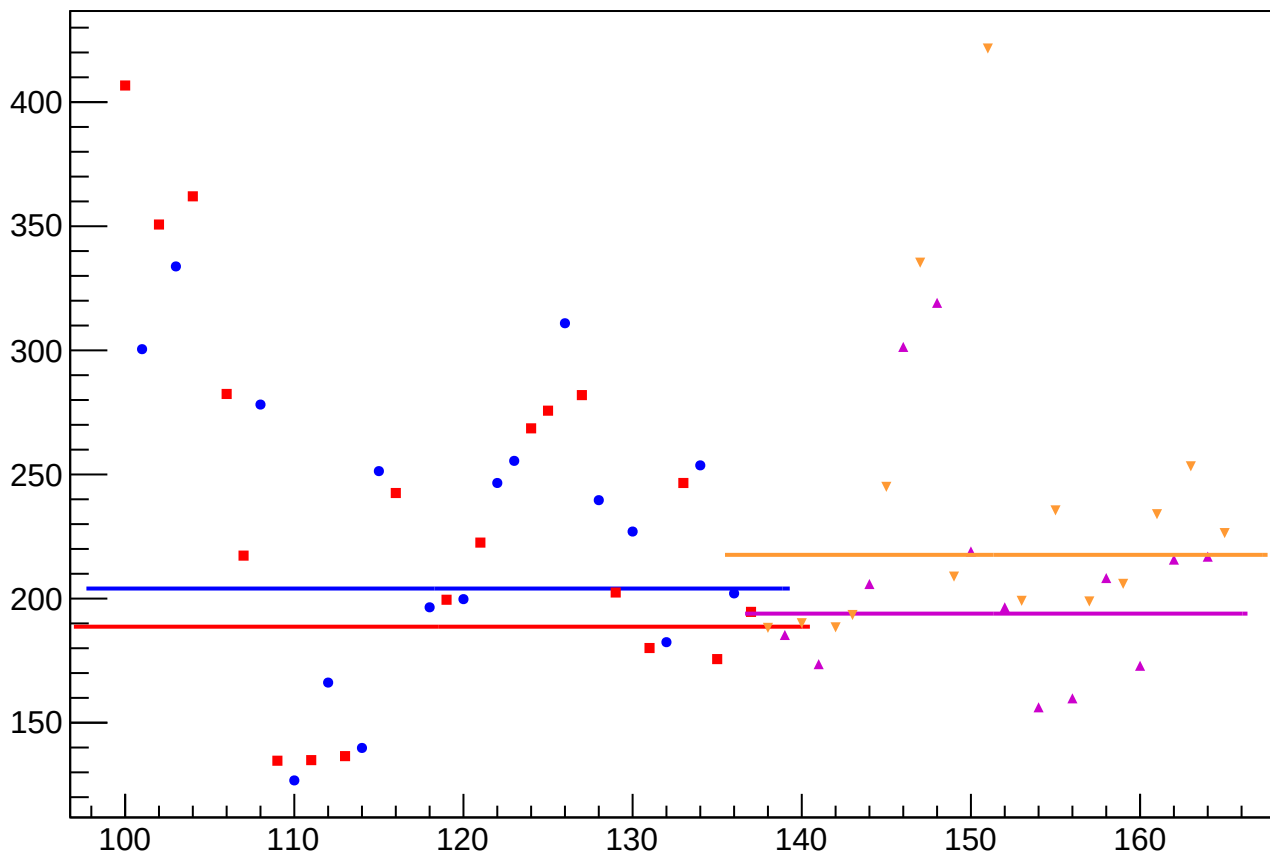
Right: -622.995+/-55.791 χ^2/NDF : 1008.5/35

In: 218.035+/-50.112 χ^2/NDF :1343.5/29

Out: 112.394+/-50.270 χ^2/NDF :2104.2/33

All: 165.381+/-35.490 χ^2/NDF : 3449.9/63

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 217.622+/-0.048 χ^2/NDF : 757009.2/14

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 193.944+/-0.045 χ^2/NDF : 727069.3/12

Left: 204.980+/-0.033 χ^2/NDF : 1615973.3/27

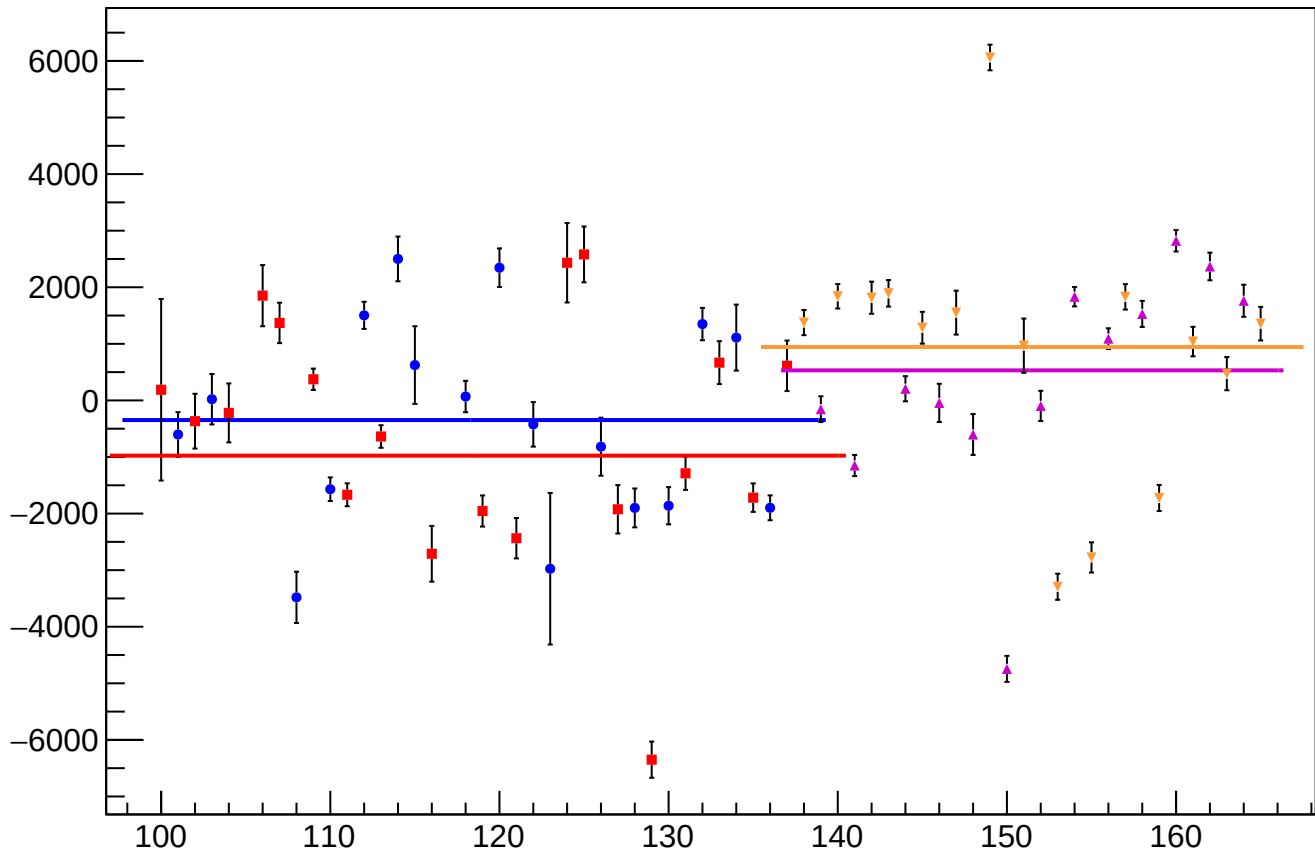
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 197.646+/-0.035 χ^2/NDF : 1614377.9/29

Out: 204.793+/-0.036 χ^2/NDF : 2171715.5/33

All: 201.208+/-0.025 χ^2/NDF : 3806370.6/63

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240±/81.318 χ^2/NDF : 399.1/16

Left Out: 944.217±/66.778 χ^2/NDF :1247.3/14

Right Out: -976.286±/73.889 χ^2/NDF : 585.7/18

Left In: 531.091±/62.328 χ^2/NDF :943.6/12

Left: 723.430±/45.565 χ^2/NDF : 2211.3/27

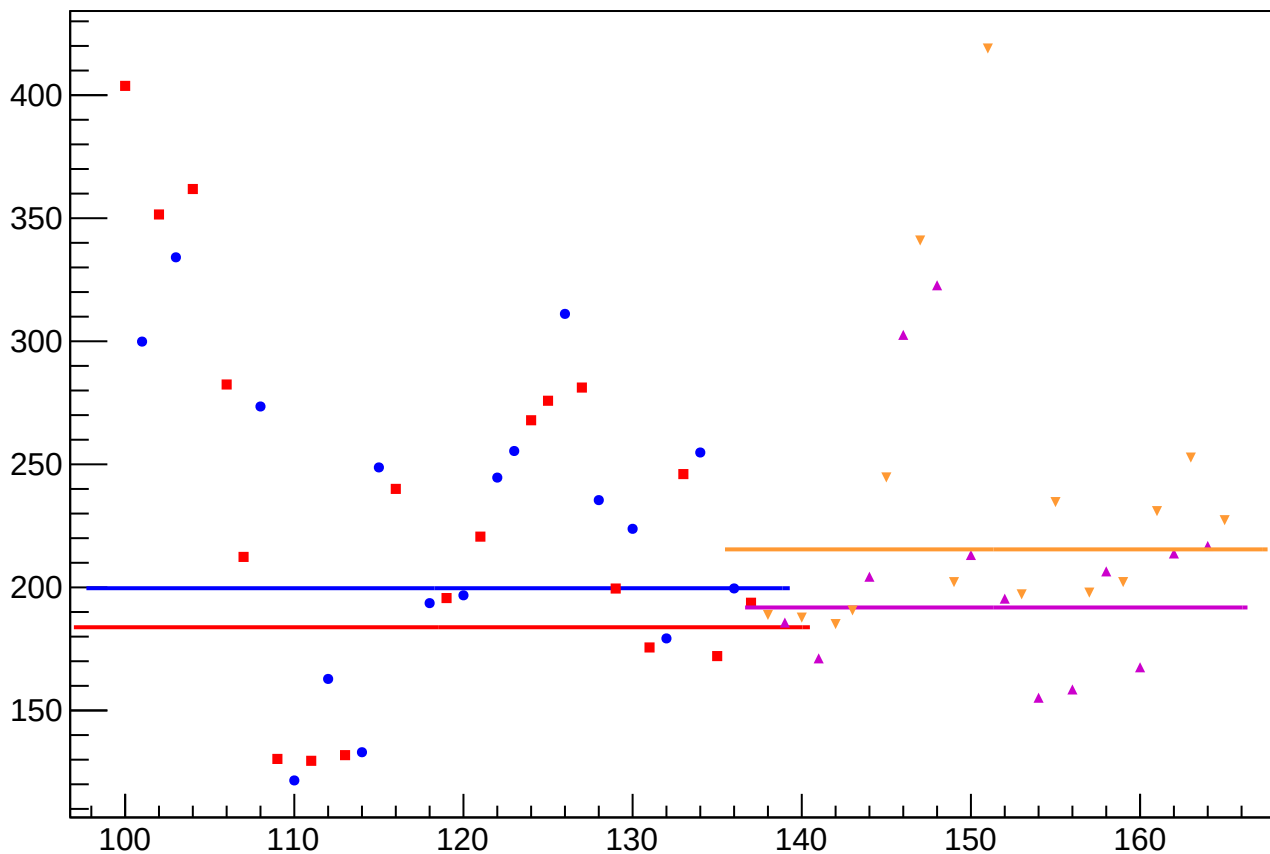
Right: -691.802±/54.685 χ^2/NDF : 1017.5/35

In: 206.047±/49.468 χ^2/NDF :1416.2/29

Out: 80.799±/49.543 χ^2/NDF :2204.8/33

All: 143.517±/35.006 χ^2/NDF : 3624.2/63

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 ± 0.058 $\chi^2/\text{NDF}: 943155.1/16$

Left Out: 215.446 ± 0.047 $\chi^2/\text{NDF}: 789028.6/14$

Right Out: 183.808 ± 0.052 $\chi^2/\text{NDF}: 1349625.1/18$

Left In: 191.843 ± 0.044 $\chi^2/\text{NDF}: 757570.5/12$

Left: 202.832 ± 0.032 $\chi^2/\text{NDF}: 1680127.5/27$

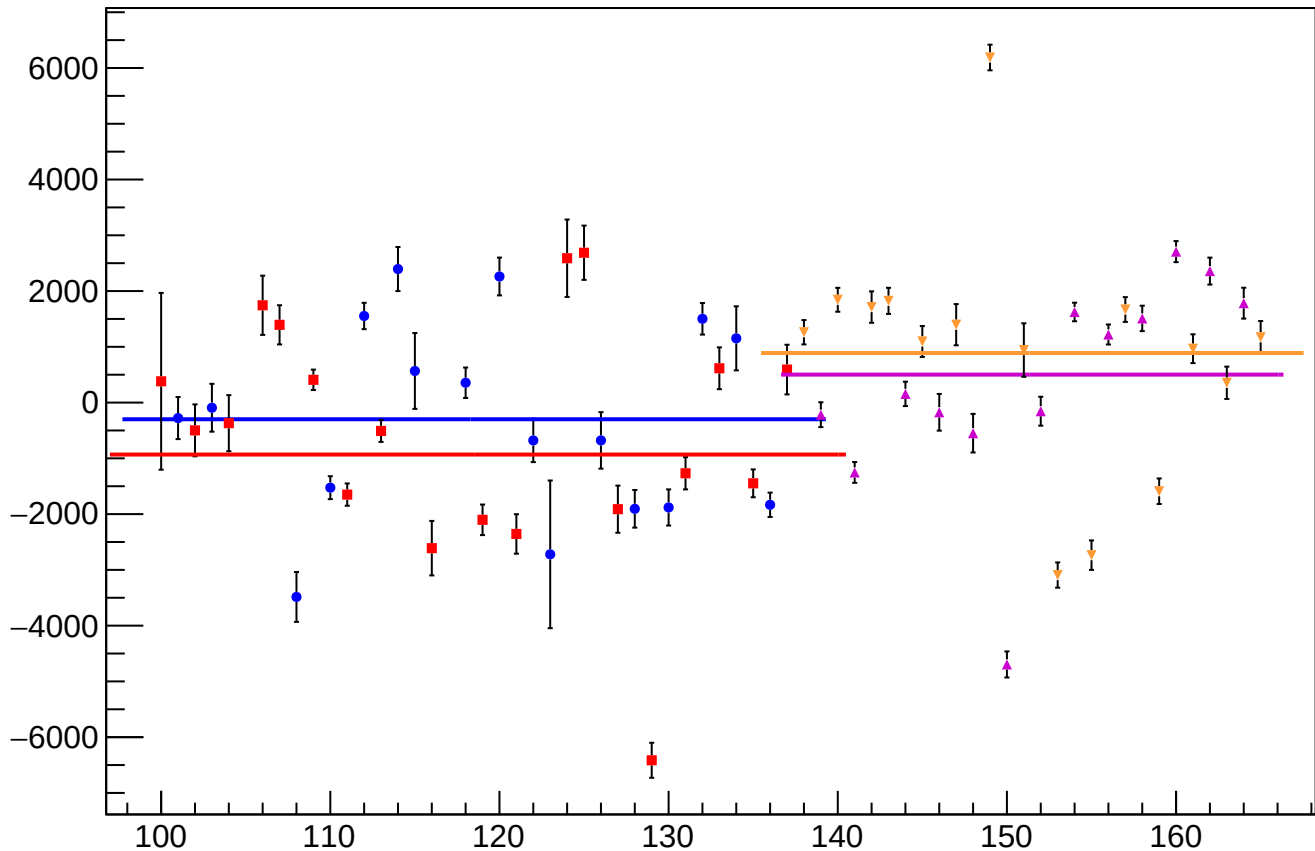
Right: 190.981 ± 0.039 $\chi^2/\text{NDF}: 2334457.4/35$

In: 194.740 ± 0.035 $\chi^2/\text{NDF}: 1712393.4/29$

Out: 201.222 ± 0.035 $\chi^2/\text{NDF}: 2340481.7/33$

All: 197.976 ± 0.025 $\chi^2/\text{NDF}: 4070023.7/63$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 $\chi^2/\text{NDF}: 406.6/16$

Left Out: 889.119 ± 66.075 $\chi^2/\text{NDF}: 1211.8/14$

Right Out: -931.843 ± 72.751 $\chi^2/\text{NDF}: 614.8/18$

Left In: 501.521 ± 61.406 $\chi^2/\text{NDF}: 914.1/12$

Left: 681.142 ± 44.981 $\chi^2/\text{NDF}: 2144.3/27$

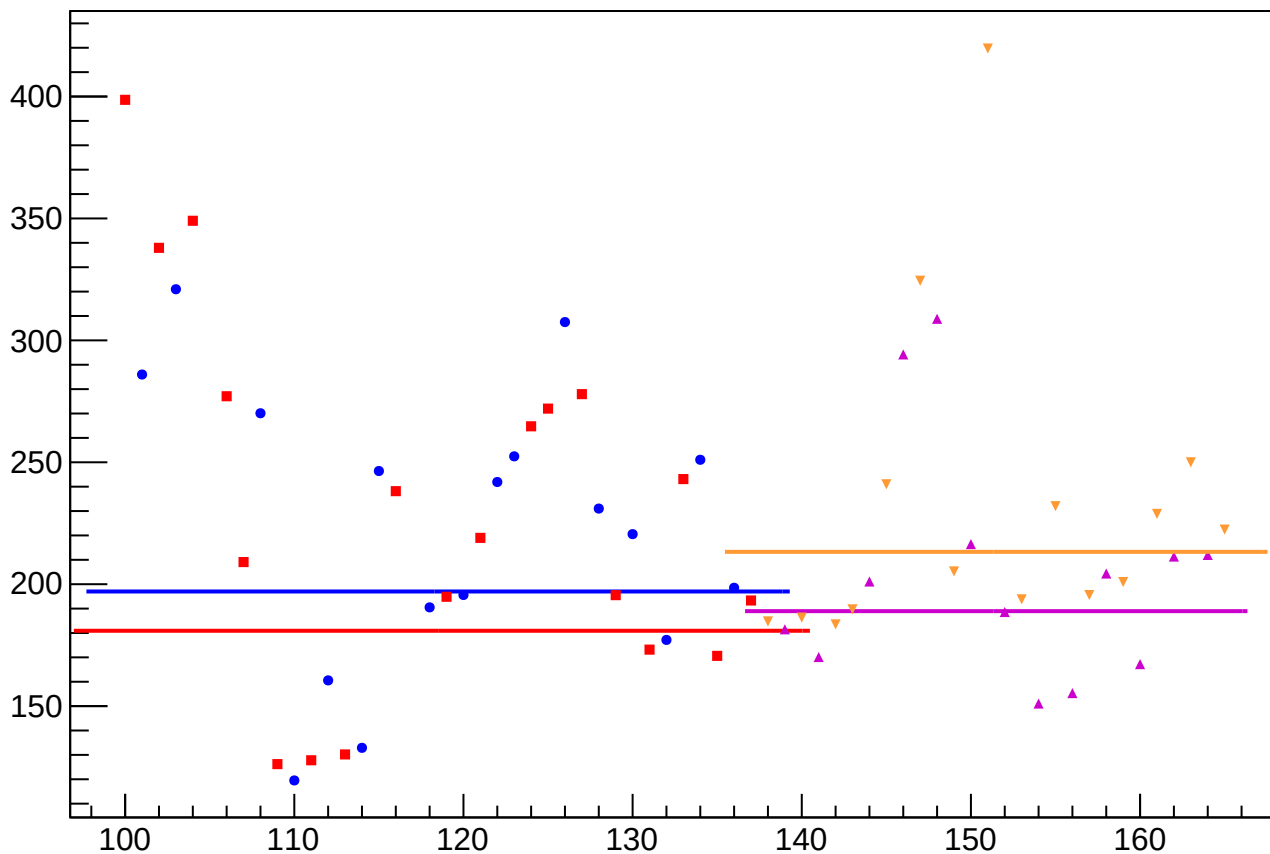
Right: -646.004 ± 53.873 $\chi^2/\text{NDF}: 1055.6/35$

In: 205.503 ± 48.747 $\chi^2/\text{NDF}: 1383.5/29$

Out: 65.997 ± 48.913 $\chi^2/\text{NDF}: 2169.9/33$

All: 135.986 ± 34.528 $\chi^2/\text{NDF}: 3557.5/63$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 213.274+/-0.047 χ^2/NDF : 766348.5/14

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 188.948+/-0.043 χ^2/NDF : 741732.8/12

Left: 200.221+/-0.032 χ^2/NDF : 1653531.0/27

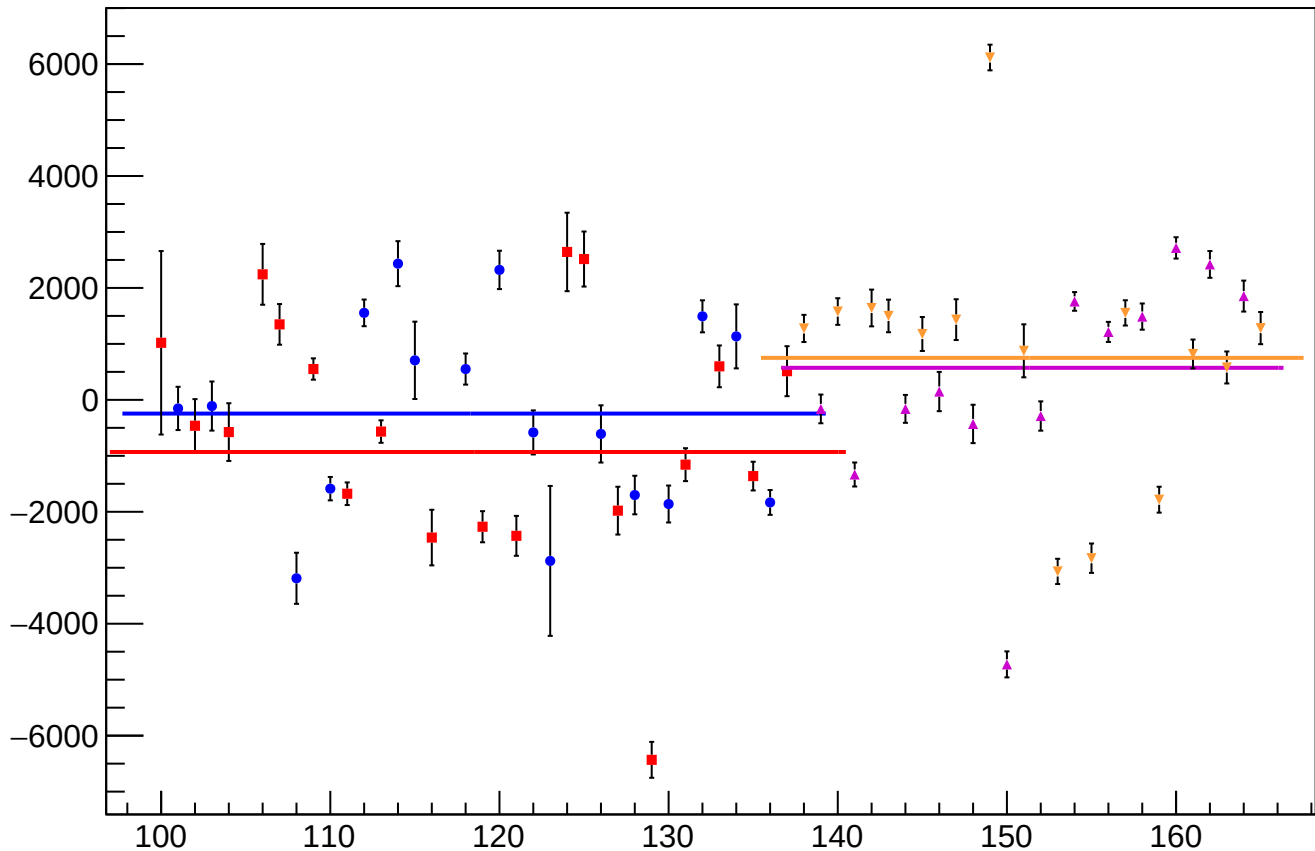
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 191.931+/-0.034 χ^2/NDF : 1666415.5/29

Out: 198.643+/-0.035 χ^2/NDF : 2328972.5/33

All: 195.275+/-0.024 χ^2/NDF : 4014282.7/63

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 750.547 ± 69.102 χ^2/NDF : 1191.6/14

Right Out: -931.272 ± 74.206 χ^2/NDF : 609.7/18

Left In: 572.741 ± 63.765 χ^2/NDF : 922.5/12

Left: 654.512 ± 46.862 χ^2/NDF : 2117.7/27

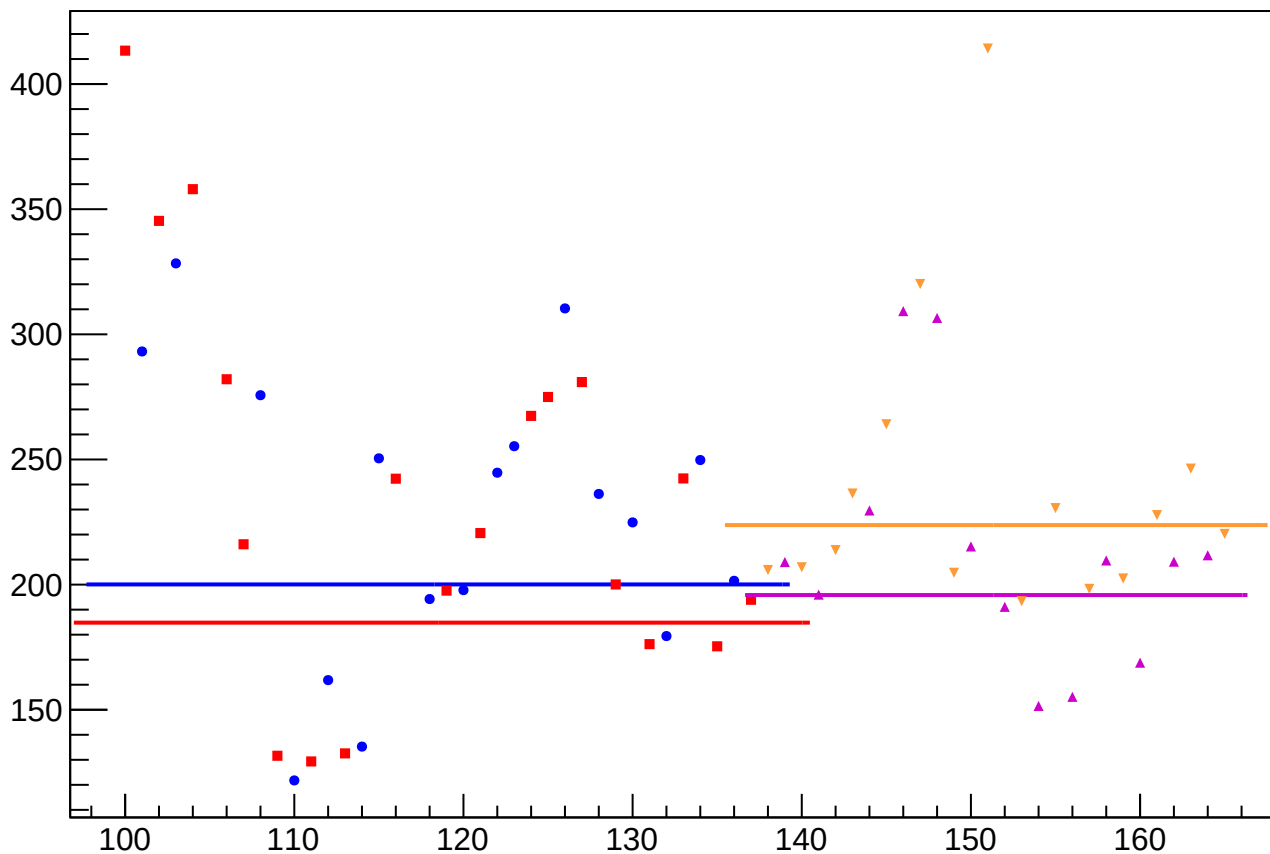
Right: -619.742 ± 54.837 χ^2/NDF : 1040.0/35

In: 261.774 ± 50.196 χ^2/NDF : 1376.5/29

Out: -30.548 ± 50.571 χ^2/NDF : 2076.5/33

All: 116.701 ± 35.626 χ^2/NDF : 3469.8/63

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 223.789+/-0.049 χ^2/NDF : 631888.8/14

Right Out: 184.807+/-0.052 χ^2/NDF : 1318267.6/18

Left In: 195.834+/-0.045 χ^2/NDF : 777571.6/12

Left: 208.691+/-0.033 χ^2/NDF : 1586248.5/27

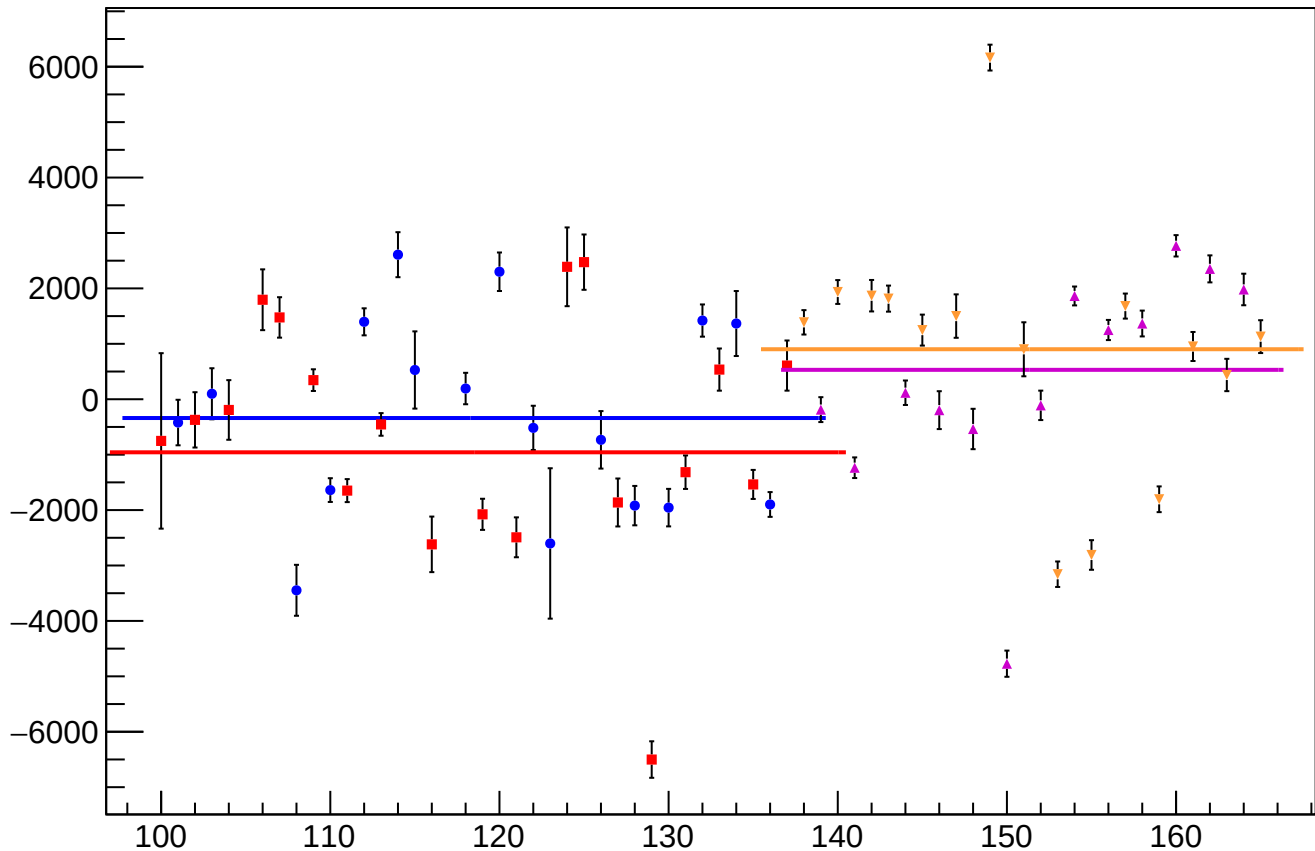
Right: 191.739+/-0.039 χ^2/NDF : 2275022.2/35

In: 197.448+/-0.035 χ^2/NDF : 1699250.4/29

Out: 205.685+/-0.036 χ^2/NDF : 2245753.1/33

All: 201.536+/-0.025 χ^2/NDF : 3971728.1/63

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966±/83.123 χ^2/NDF : 389.5/16

Left Out: 902.241±/66.905 χ^2/NDF :1222.9/14

Right Out: -957.615±/75.749 χ^2/NDF : 570.3/18

Left In: 530.461±/62.435 χ^2/NDF :932.0/12

Left: 703.517±/45.647 χ^2/NDF : 2171.4/27

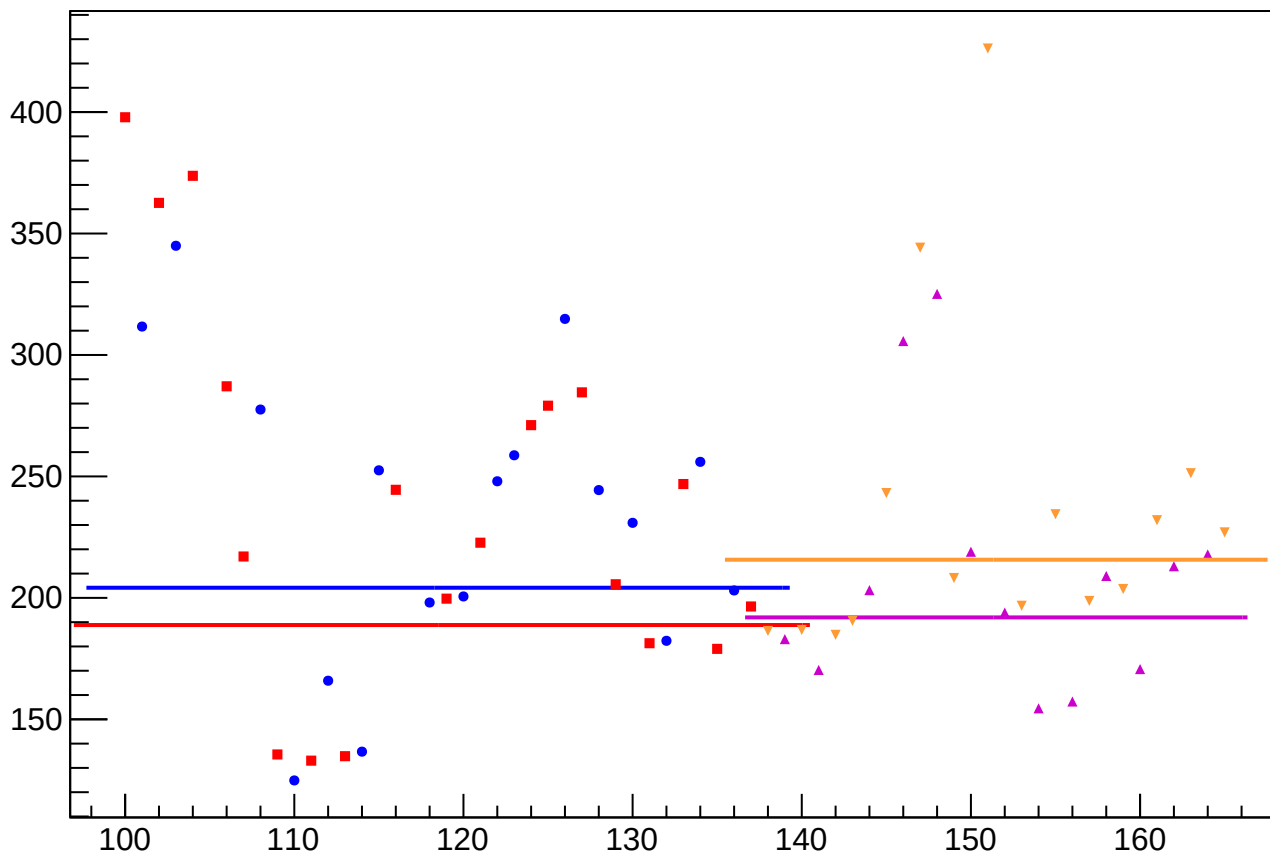
Right: -676.943±/55.988 χ^2/NDF : 990.0/35

In: 216.869±/49.921 χ^2/NDF :1391.4/29

Out: 87.166±/50.146 χ^2/NDF :2131.9/33

All: 152.308±/35.379 χ^2/NDF : 3526.6/63

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175 $\pm$ 0.059 χ^2 /NDF: 947438.5/16

Left Out: 215.705 $\pm$ 0.047 χ^2 /NDF: 808137.4/14

Right Out: 188.821 $\pm$ 0.054 χ^2 /NDF: 1314891.2/18

Left In: 191.958 $\pm$ 0.044 χ^2 /NDF: 786378.0/12

Left: 203.012 $\pm$ 0.032 χ^2 /NDF: 1729191.6/27

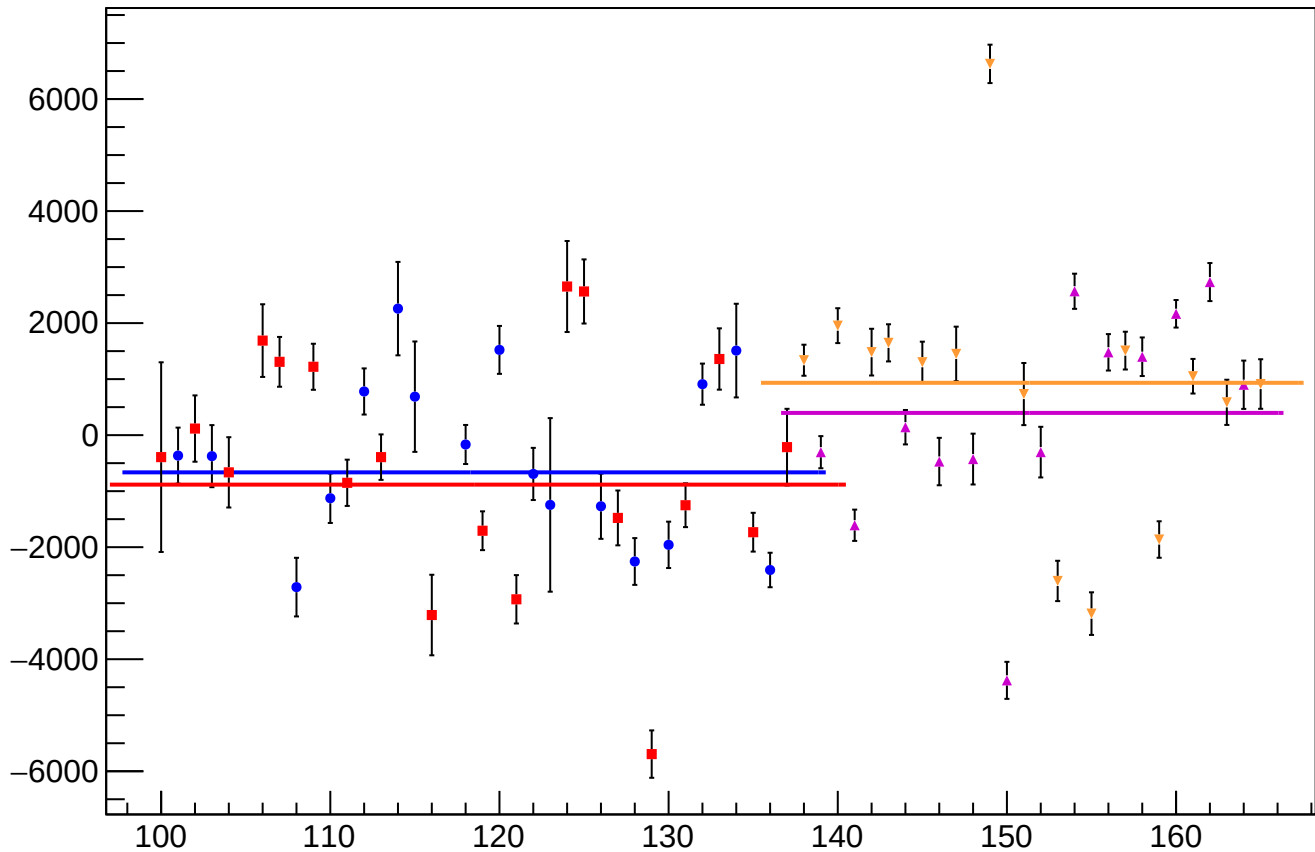
Right: 195.787 $\pm$ 0.040 χ^2 /NDF: 2299610.3/35

In: 196.365 $\pm$ 0.035 χ^2 /NDF: 1761436.9/29

Out: 203.923 $\pm$ 0.035 χ^2 /NDF: 2264549.3/33

All: 200.127 $\pm$ 0.025 χ^2 /NDF: 4048808.5/63

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383+/-113.949 χ^2/NDF : 154.3/16

Left Out: 934.329+/-92.774 χ^2/NDF : 588.6/14

Right Out: -883.255+/-110.875 χ^2/NDF : 320.1/18

Left In: 397.030+/-91.782 χ^2/NDF : 444.8/12

Left: 662.789+/-65.248 χ^2/NDF : 1050.3/27

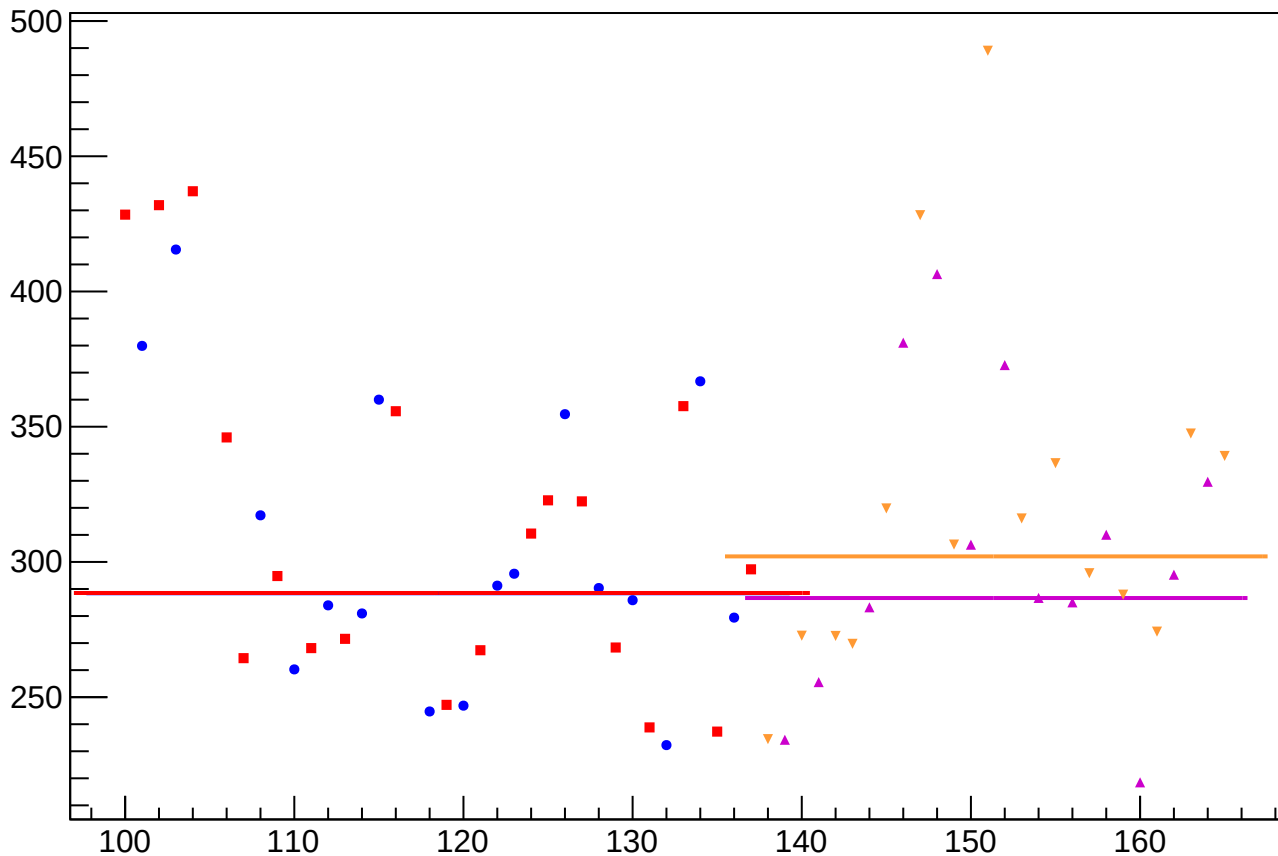
Right: -776.811+/-79.465 χ^2/NDF : 476.3/35

In: -20.625+/-71.479 χ^2/NDF : 651.8/29

Out: 185.816+/-71.152 χ^2/NDF : 1066.7/33

All: 83.068+/-50.427 χ^2/NDF : 1722.6/63

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428+/-0.081 χ^2/NDF : 339820.0/16

Left Out: 302.052+/-0.066 χ^2/NDF : 612198.0/14

Right Out: 288.522+/-0.078 χ^2/NDF : 455410.1/18

Left In: 286.659+/-0.065 χ^2/NDF : 594574.5/12

Left: 294.273+/-0.046 χ^2/NDF : 1234598.4/27

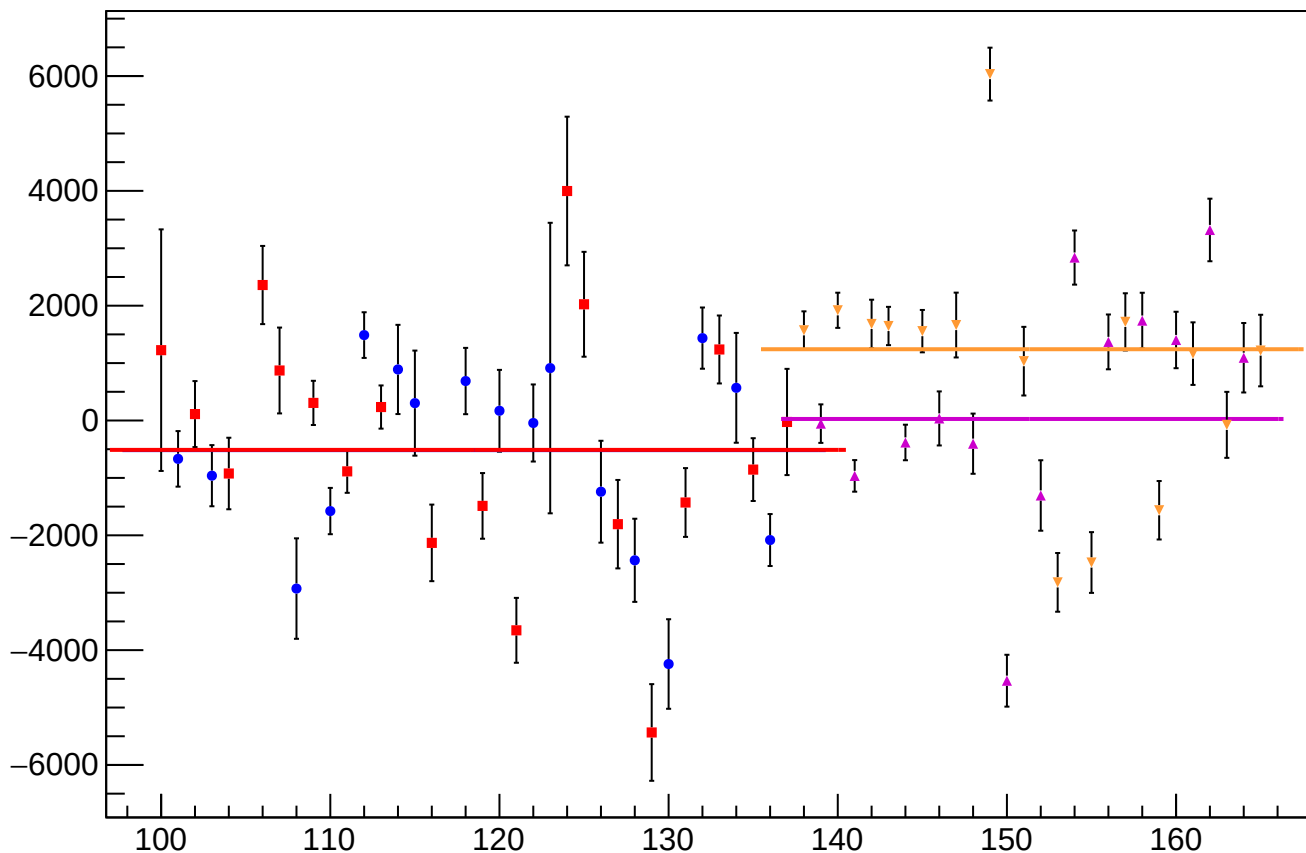
Right: 288.476+/-0.056 χ^2/NDF : 795230.9/35

In: 287.355+/-0.051 χ^2/NDF : 934687.0/29

Out: 296.480+/-0.050 χ^2/NDF : 1085125.8/33

All: 291.938+/-0.036 χ^2/NDF : 2036185.0/63

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 $\pm$ 147.326 χ^2/NDF : 108.0/16

Left Out: 1241.534 $\pm$ 114.206 χ^2/NDF : 267.0/14

Right Out: -511.851 $\pm$ 135.798 χ^2/NDF : 141.3/18

Left In: 26.796 $\pm$ 118.187 χ^2/NDF : 225.4/12

Left: 654.968 $\pm$ 82.127 χ^2/NDF : 547.0/27

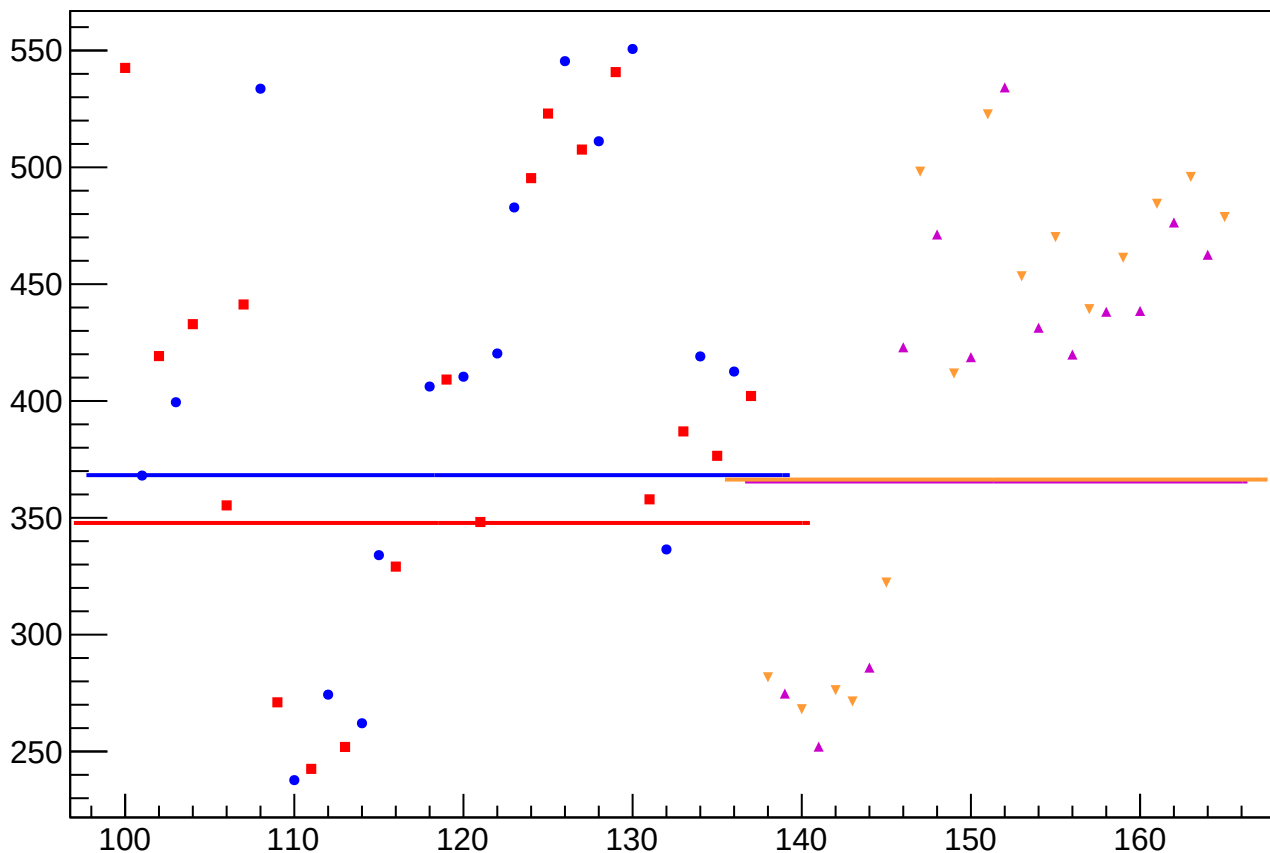
Right: -513.708 $\pm$ 99.851 χ^2/NDF : 249.3/35

In: -185.700 $\pm$ 92.189 χ^2/NDF : 341.7/29

Out: 515.155 $\pm$ 87.405 χ^2/NDF : 505.9/33

All: 183.383 $\pm$ 63.429 χ^2/NDF : 878.0/63

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 366.370+/-0.081 χ^2/NDF : 1391670.6/14

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 365.550+/-0.084 χ^2/NDF : 1196593.8/12

Left: 365.974+/-0.058 χ^2/NDF : 2588314.2/27

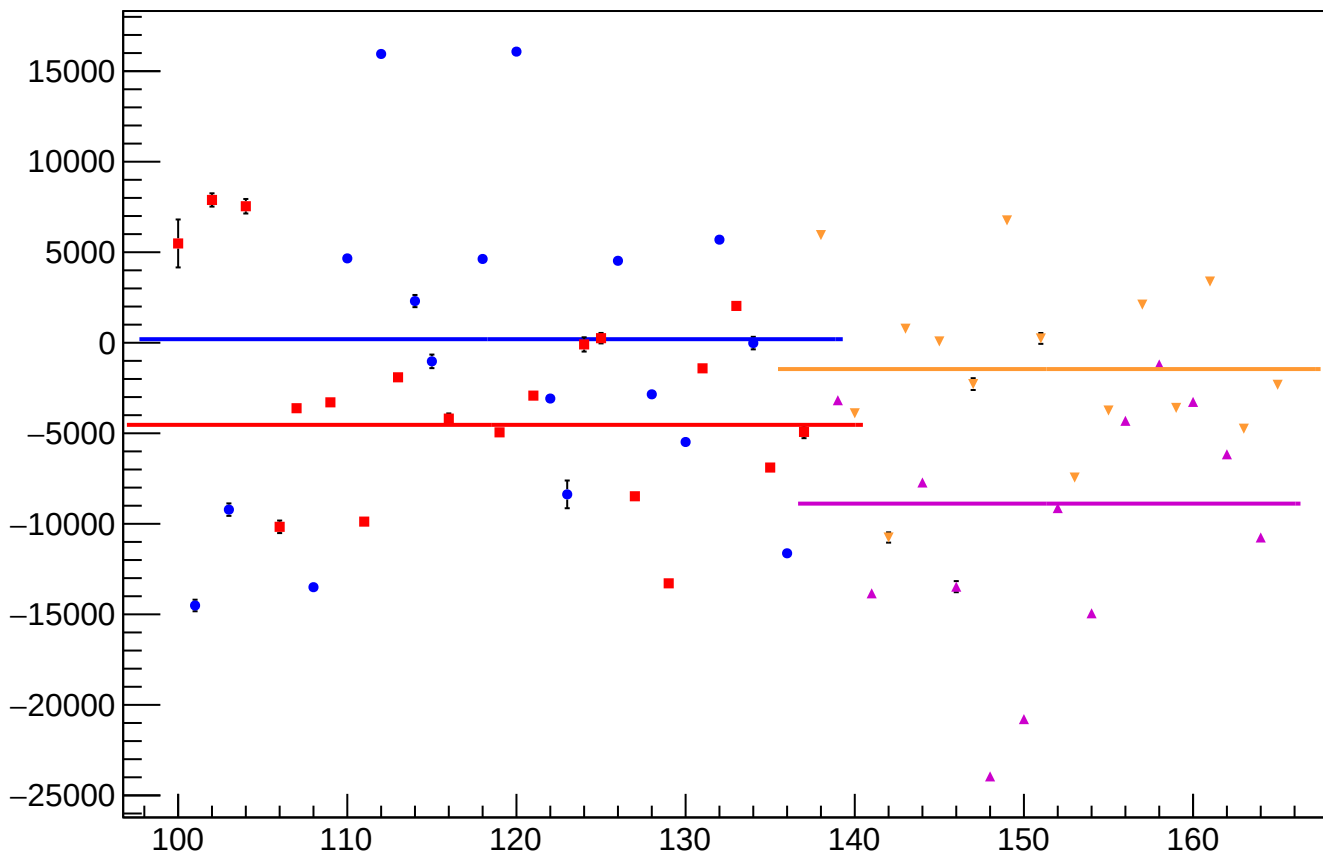
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 366.613+/-0.065 χ^2/NDF : 1967123.4/29

Out: 358.678+/-0.062 χ^2/NDF : 2235433.9/33

All: 362.434+/-0.045 χ^2/NDF : 4210360.2/63

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 $\pm$ 54.799 χ^2/NDF : 30658.3/16

Left Out: -1452.743 $\pm$ 52.087 χ^2/NDF : 7587.7/14

Right Out: -4534.200 $\pm$ 52.462 χ^2/NDF : 7477.2/18

Left In: -8884.817 $\pm$ 54.906 χ^2/NDF : 14070.4/12

Left: -4973.074 $\pm$ 37.788 χ^2/NDF : 31301.6/27

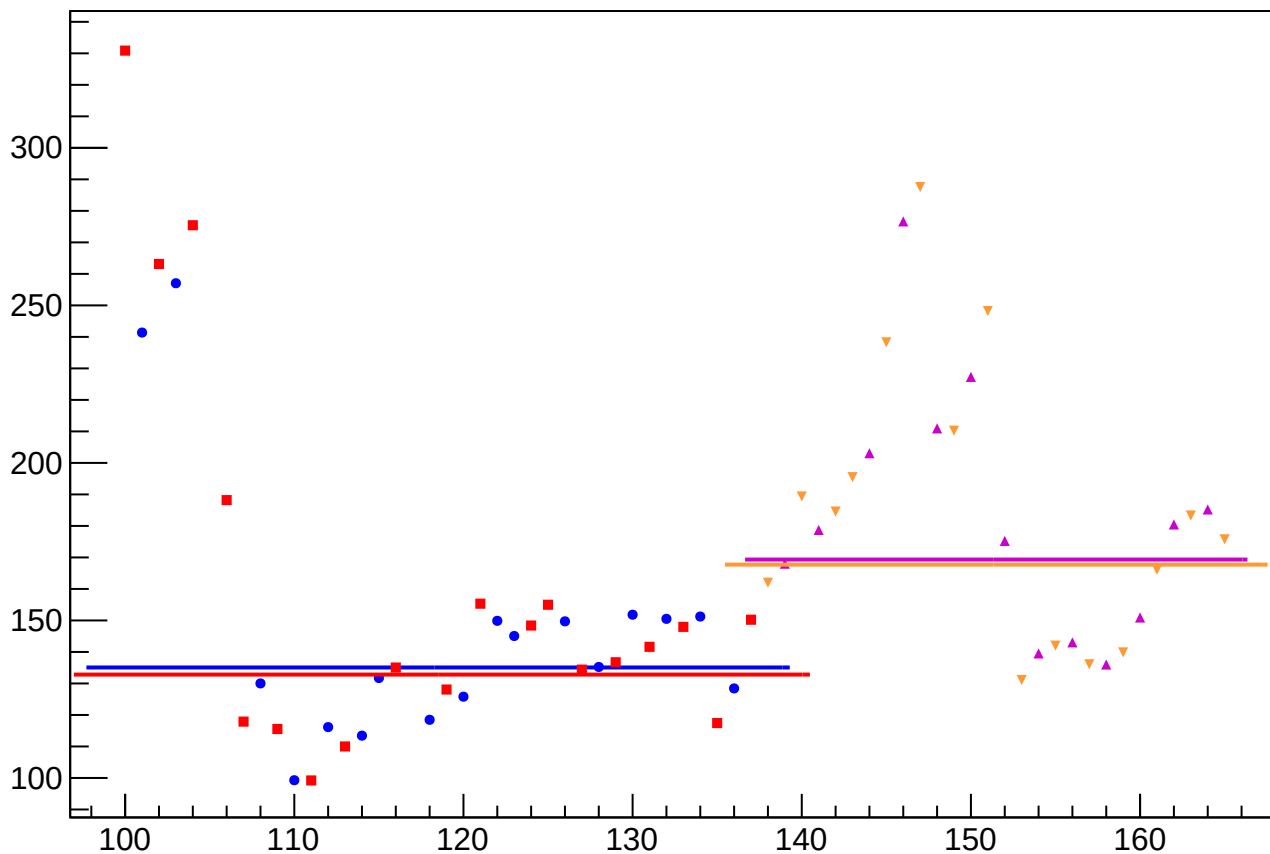
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4334.974 $\pm$ 38.786 χ^2/NDF : 58435.1/29

Out: -2982.430 $\pm$ 36.963 χ^2/NDF : 16802.3/33

All: -3626.158 $\pm$ 26.758 χ^2/NDF : 75874.7/63

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 167.717+/-0.037 χ^2/NDF :1003334.6/14

Right Out: 132.816+/-0.037 χ^2/NDF : 831191.5/18

Left In: 169.328+/-0.039 χ^2/NDF :729200.0/12

Left: 168.480+/-0.027 χ^2/NDF : 1733441.2/27

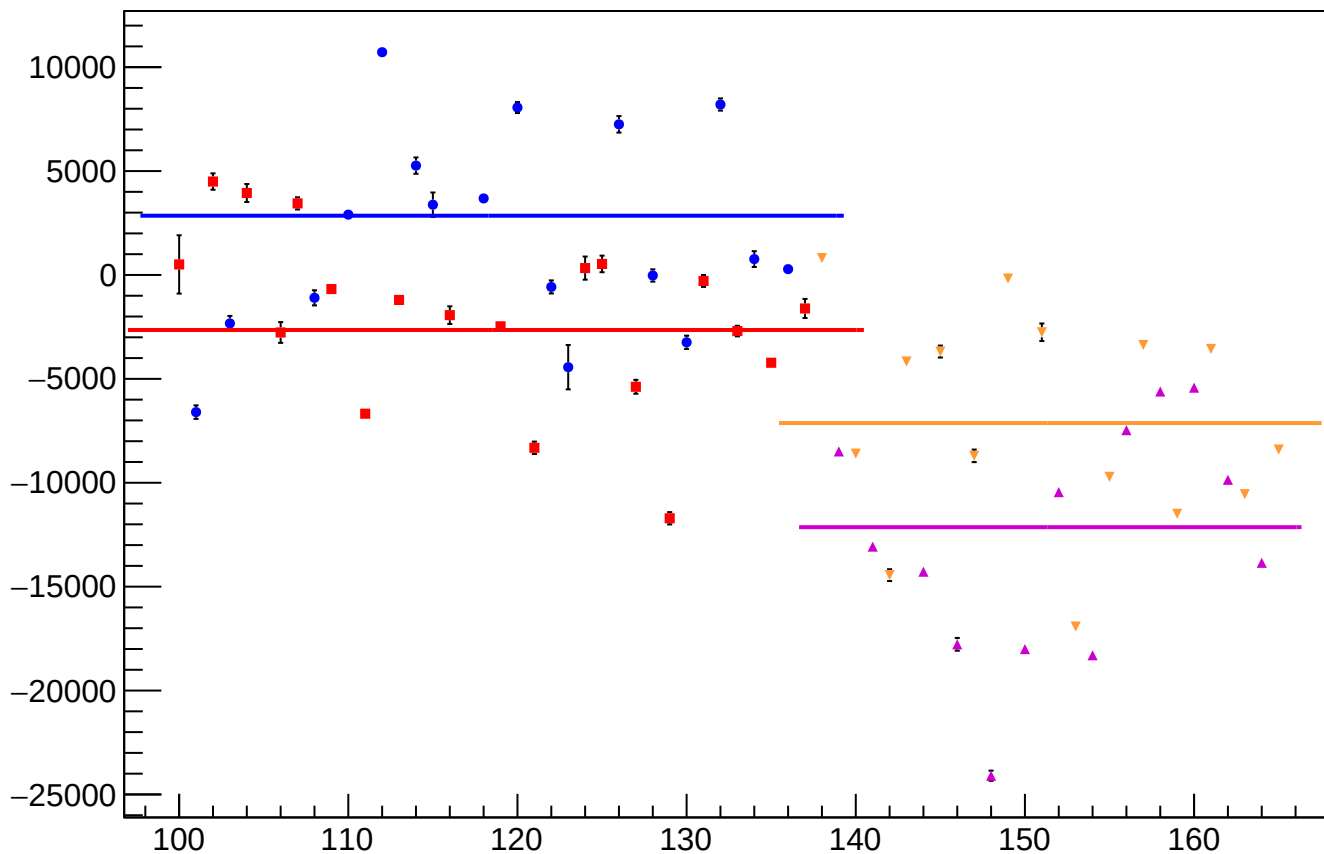
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 152.166+/-0.027 χ^2/NDF :1777927.8/29

Out: 150.392+/-0.026 χ^2/NDF :2280268.8/33

All: 151.236+/-0.019 χ^2/NDF : 4060391.0/63

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 +/- 70.753 χ^2/NDF : 4178.1/16

Left Out: -7126.828 +/- 59.567 χ^2/NDF : 7685.3/14

Right Out: -2649.142 +/- 65.731 χ^2/NDF : 3175.7/18

Left In: -12137.628 +/- 55.000 χ^2/NDF : 9418.8/12

Left: -9831.661 +/- 40.409 χ^2/NDF : 20923.8/27

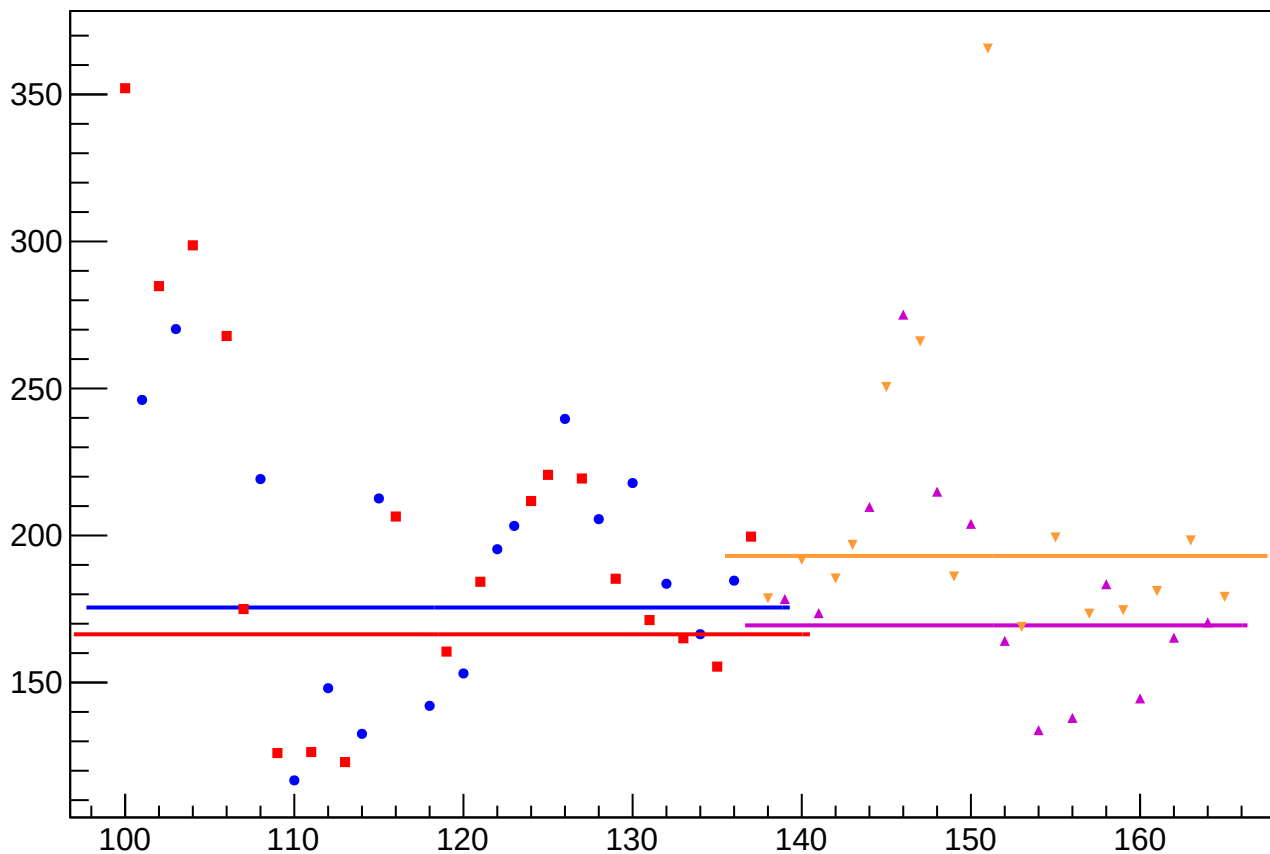
Right: -100.998 +/- 48.156 χ^2/NDF : 10597.9/35

In: -6491.787 +/- 43.423 χ^2/NDF : 41572.4/29

Out: -5107.720 +/- 44.139 χ^2/NDF : 13409.0/33

All: -5811.063 +/- 30.955 χ^2/NDF : 55481.1/63

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 193.061+/-0.042 χ^2/NDF : 627889.0/14

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 169.441+/-0.039 χ^2/NDF : 675401.2/12

Left: 180.310+/-0.029 χ^2/NDF : 1473041.3/27

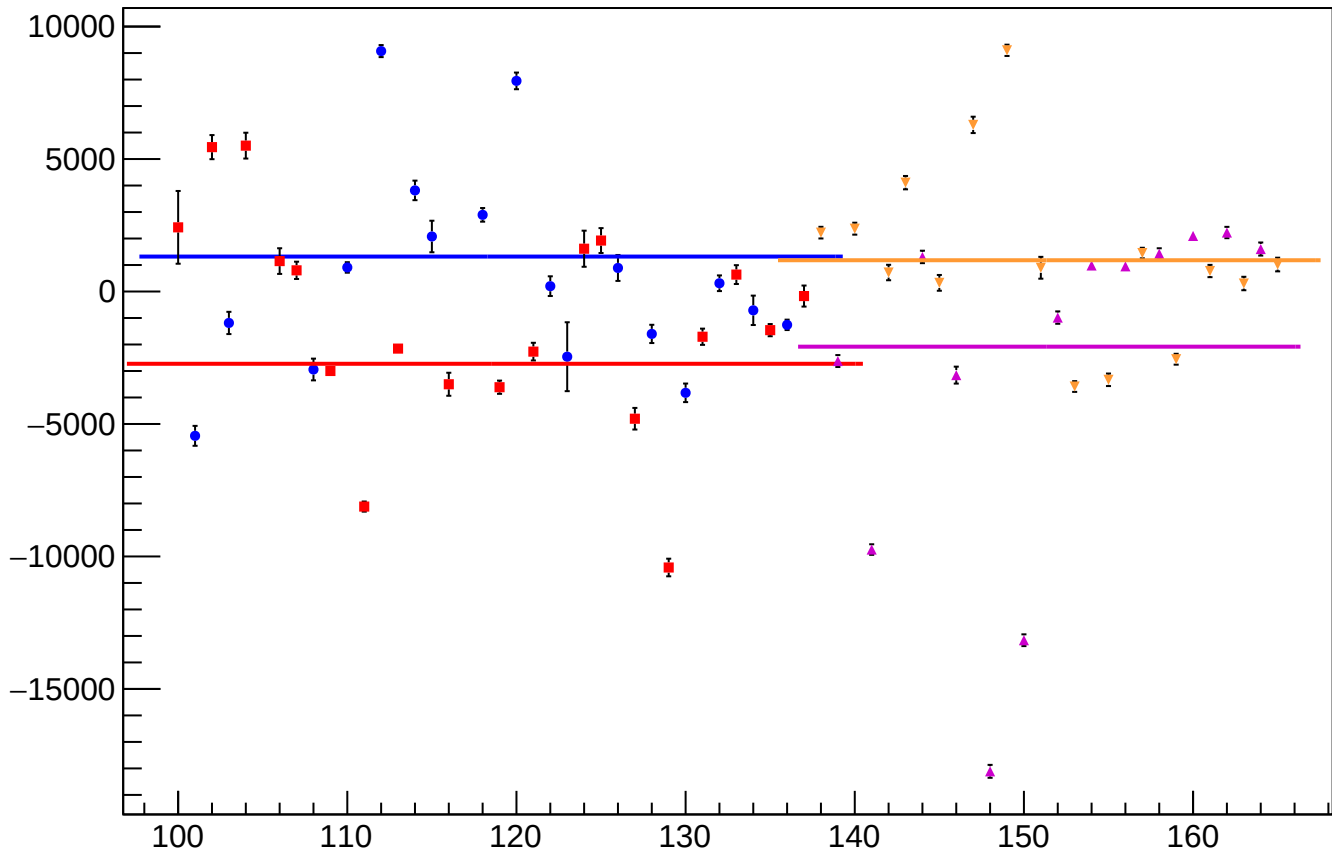
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 171.728+/-0.031 χ^2/NDF : 1374230.4/29

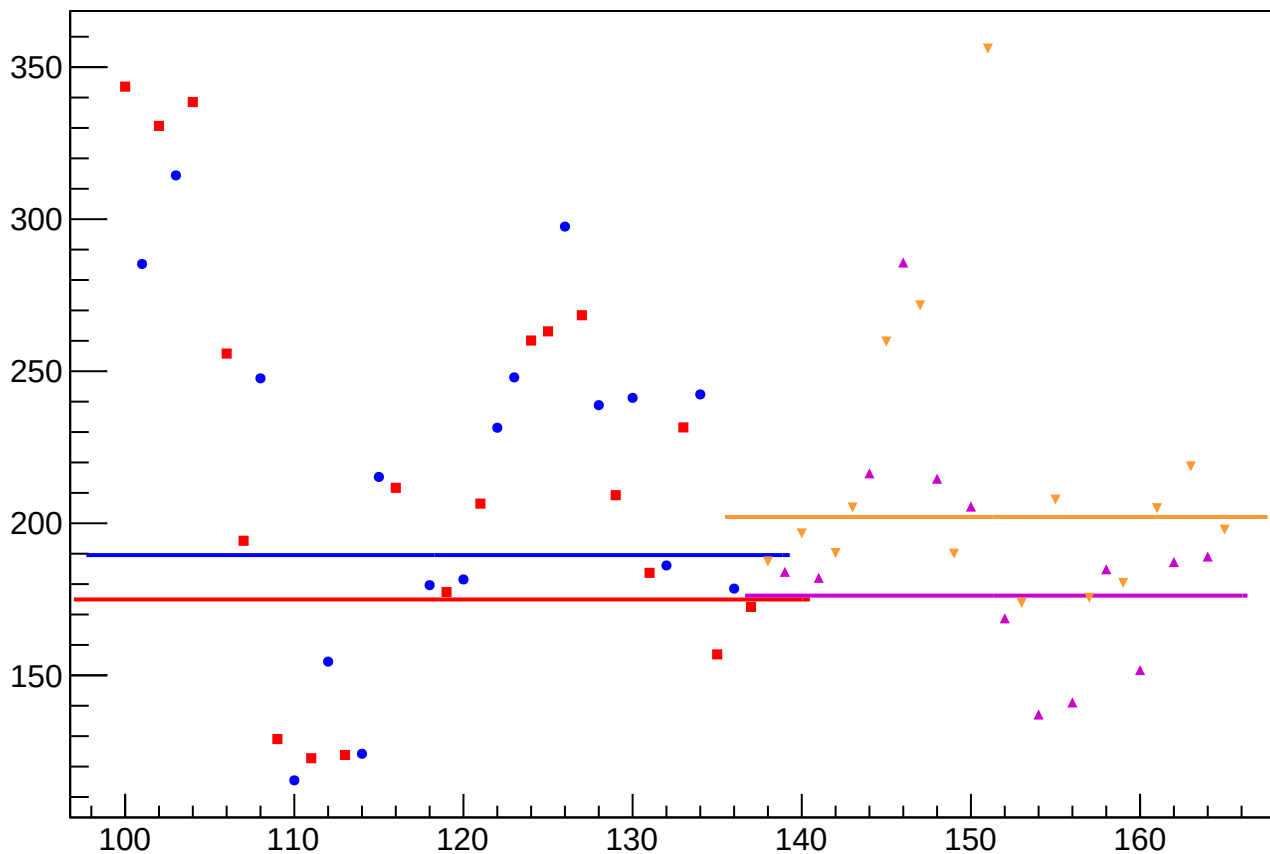
Out: 181.035+/-0.031 χ^2/NDF : 1738180.5/33

All: 176.306+/-0.022 χ^2/NDF : 3157599.3/63

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.087 $\pm$ 0.044 χ^2 /NDF: 582893.7/14

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 176.214 $\pm$ 0.040 χ^2 /NDF: 665805.7/12

Left: 188.052 $\pm$ 0.030 χ^2 /NDF: 1435780.4/27

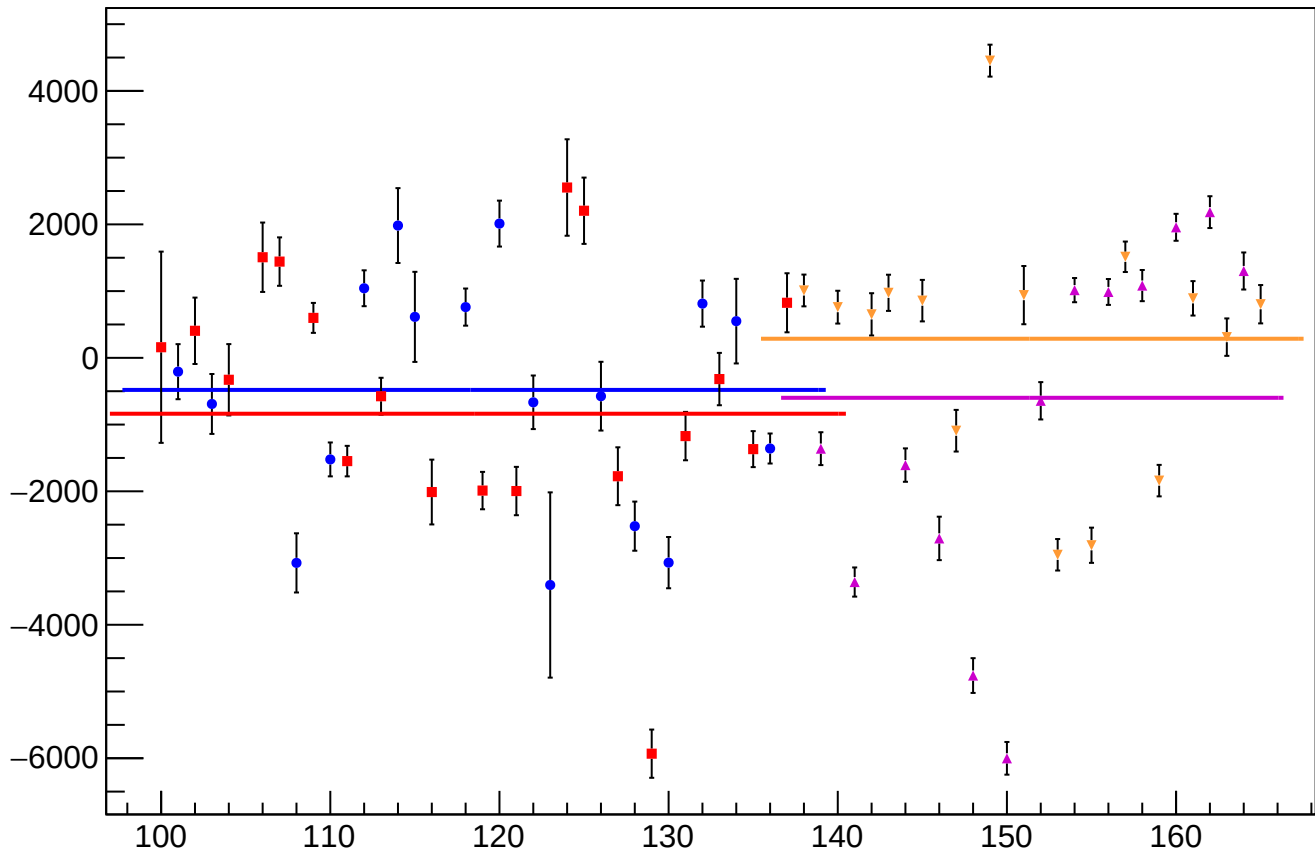
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 180.945 $\pm$ 0.032 χ^2 /NDF: 1685074.5/29

Out: 190.094 $\pm$ 0.033 χ^2 /NDF: 2047707.9/33

All: 185.461 $\pm$ 0.023 χ^2 /NDF: 3771905.0/63

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 286.389±/68.935 χ^2/NDF : 793.8/14

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -598.803±/64.899 χ^2/NDF : 1510.1/12

Left: -182.881±/47.253 χ^2/NDF : 2391.3/27

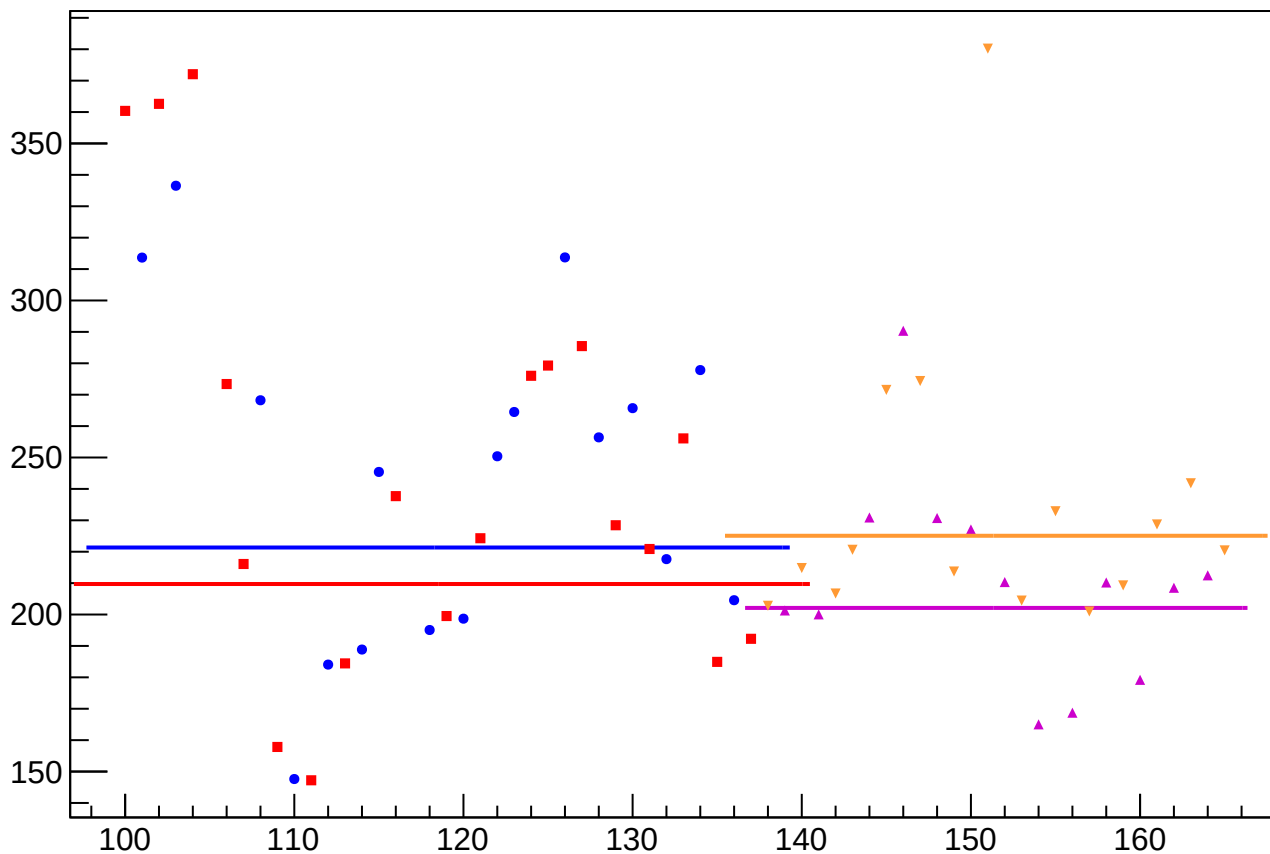
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -557.545±/52.364 χ^2/NDF : 1802.0/29

Out: -177.359±/52.831 χ^2/NDF : 1338.8/33

All: -369.140±/37.191 χ^2/NDF : 3166.9/63

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 225.080 $\pm$ 0.049 χ^2 /NDF: 436424.1/14

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 202.105 $\pm$ 0.046 χ^2 /NDF: 395549.0/12

Left: 212.900 $\pm$ 0.033 χ^2 /NDF: 949749.9/27

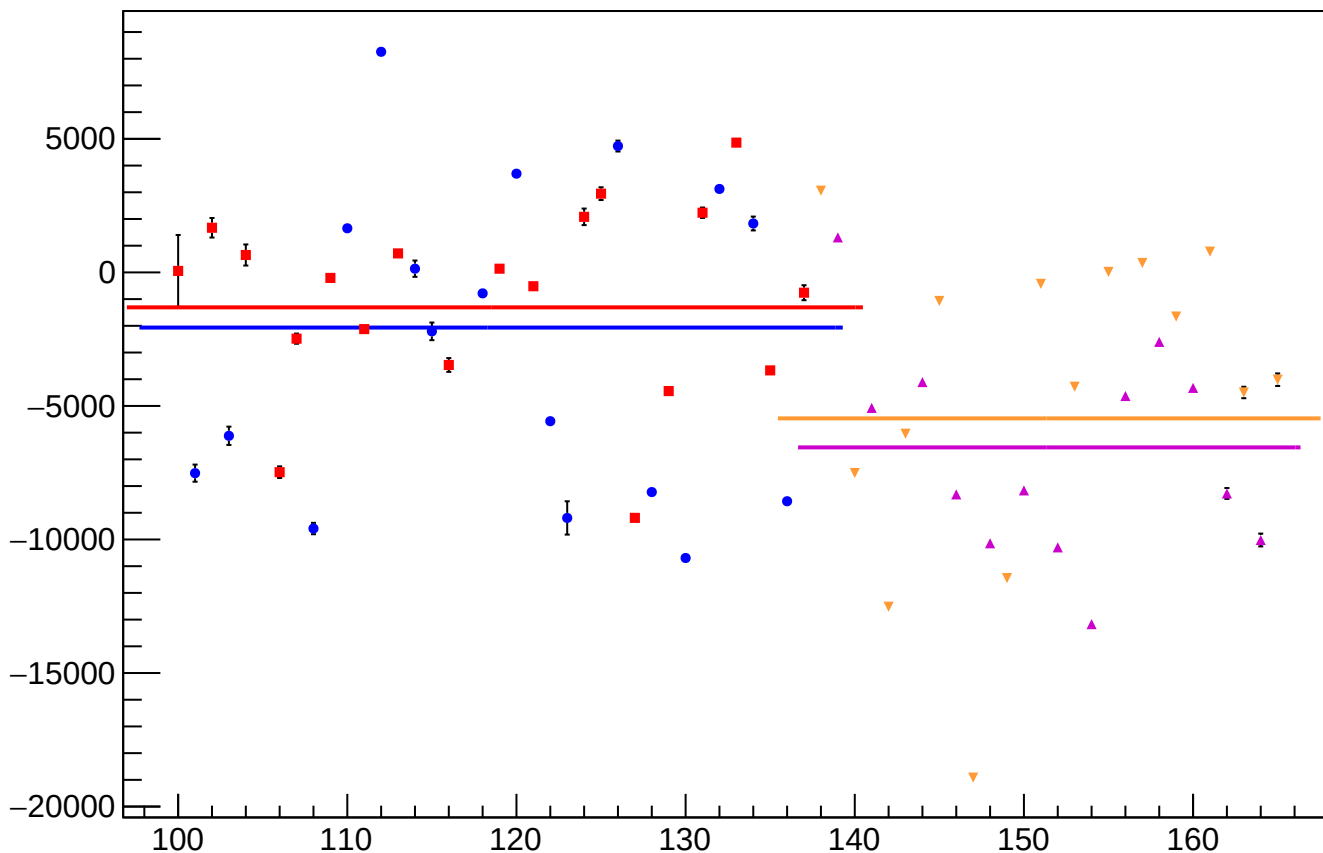
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 208.818 $\pm$ 0.037 χ^2 /NDF: 1102565.1/29

Out: 218.740 $\pm$ 0.037 χ^2 /NDF: 1361334.5/33

All: 213.735 $\pm$ 0.026 χ^2 /NDF: 2499485.1/63

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -5465.639 ± 37.971 $\chi^2/\text{NDF}: 28201.0/14$

Right Out: -1308.512 ± 45.001 $\chi^2/\text{NDF}: 5894.4/18$

Left In: -6551.895 ± 39.417 $\chi^2/\text{NDF}: 8962.2/12$

Left: -5988.468 ± 27.347 $\chi^2/\text{NDF}: 37557.1/27$

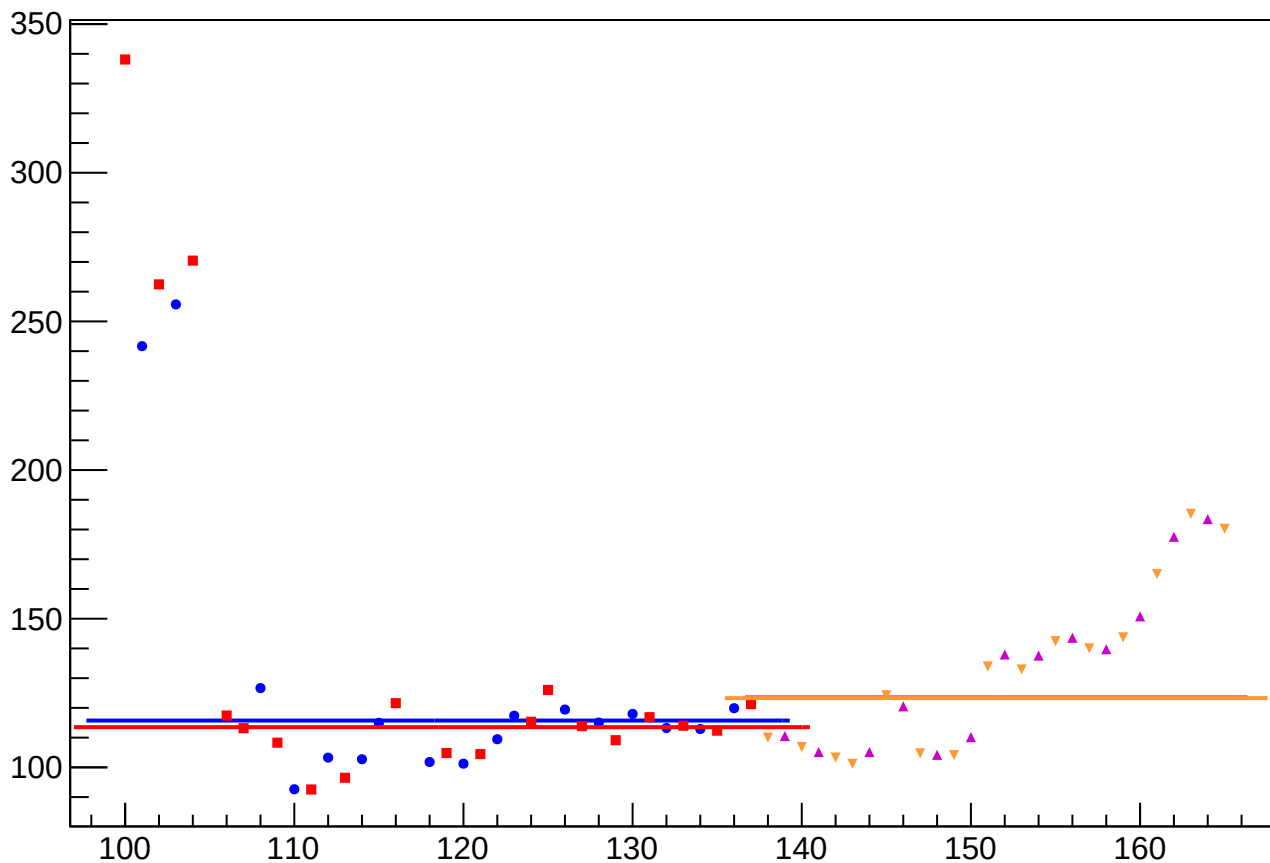
Right: -1667.825 ± 32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4714.040 ± 30.287 $\chi^2/\text{NDF}: 30802.7/29$

Out: -3736.802 ± 29.020 $\chi^2/\text{NDF}: 39080.2/33$

All: -4204.561 ± 20.954 $\chi^2/\text{NDF}: 70425.6/63$

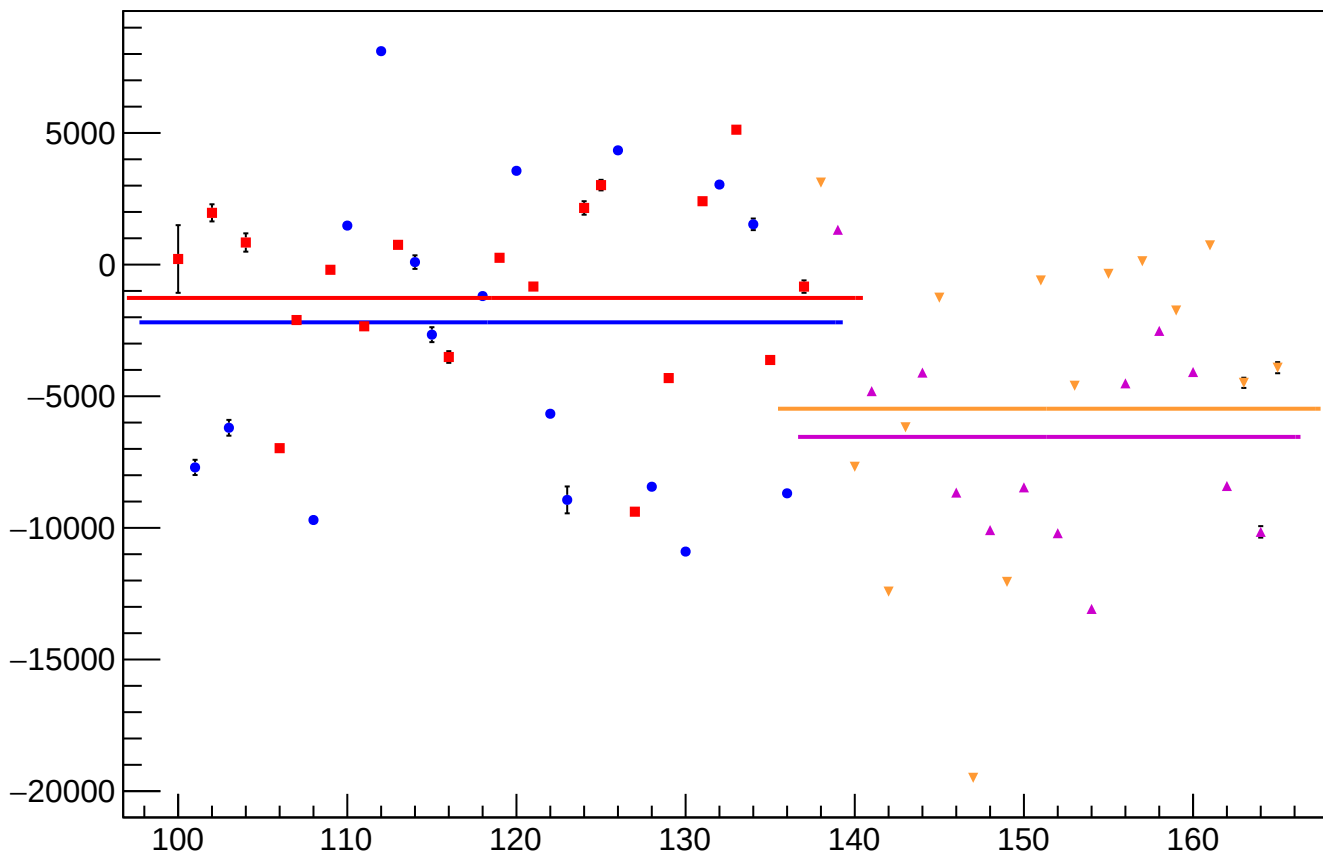
asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 ± 0.033 $\chi^2/\text{NDF}: 744017.7/16$
 Left Out: 123.295 ± 0.027 $\chi^2/\text{NDF}: 738157.9/14$
 Right Out: 113.519 ± 0.032 $\chi^2/\text{NDF}: 796640.6/18$
 Left In: 123.514 ± 0.028 $\chi^2/\text{NDF}: 604912.3/12$

Left: 123.400 ± 0.019 $\chi^2/\text{NDF}: 1343102.1/27$
 Right: 114.574 ± 0.023 $\chi^2/\text{NDF}: 1542972.7/35$
 In: 120.330 ± 0.021 $\chi^2/\text{NDF}: 1380787.8/29$
 Out: 119.229 ± 0.021 $\chi^2/\text{NDF}: 1589930.7/33$
 All: 119.756 ± 0.015 $\chi^2/\text{NDF}: 2972094.3/63$

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 ± 39.944 $\chi^2/\text{NDF}: 22813.5/16$

Left Out: -5473.846 ± 34.349 $\chi^2/\text{NDF}: 34284.7/14$

Right Out: -1266.189 ± 38.048 $\chi^2/\text{NDF}: 8550.5/18$

Left In: -6544.073 ± 36.103 $\chi^2/\text{NDF}: 11202.0/12$

Left: -5982.326 ± 24.885 $\chi^2/\text{NDF}: 45947.9/27$

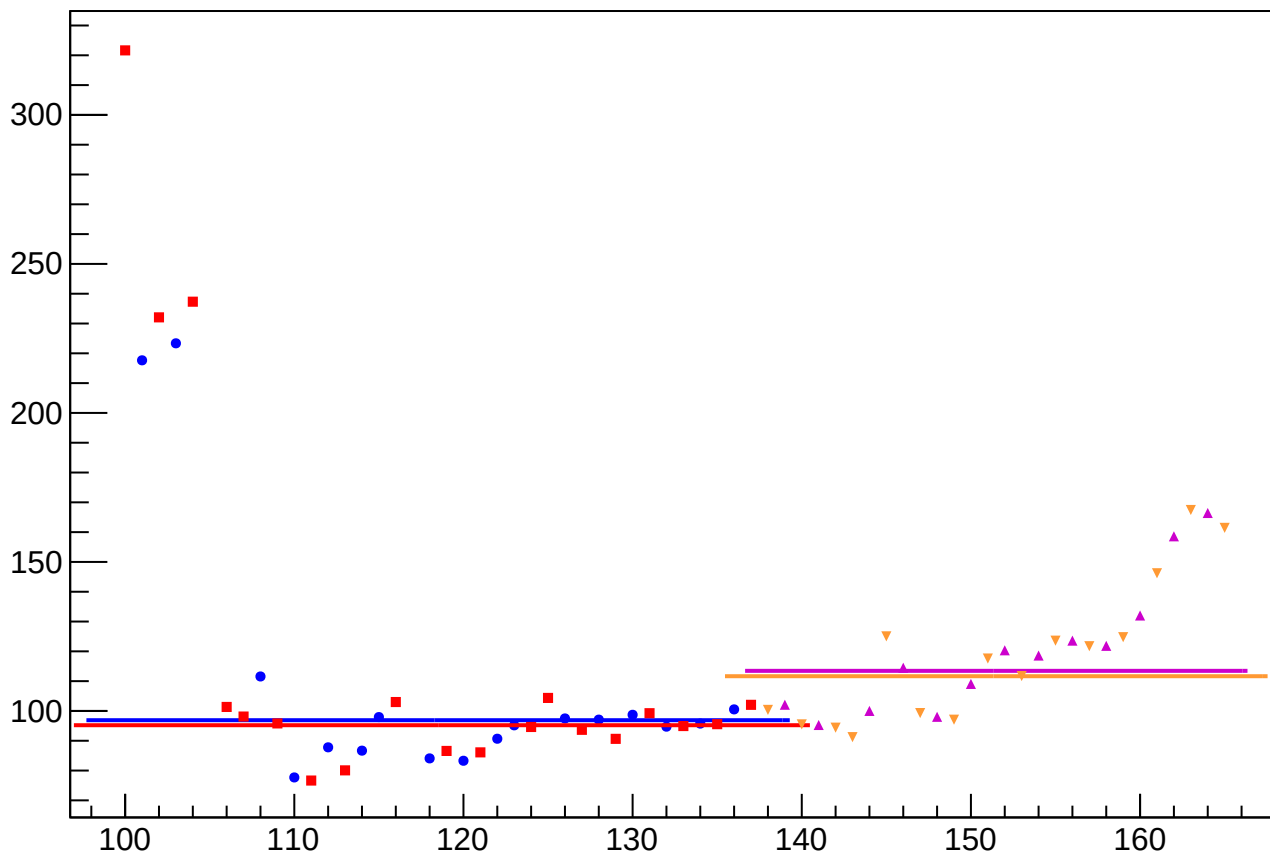
Right: -1706.759 ± 27.550 $\chi^2/\text{NDF}: 31645.9/35$

In: -4587.421 ± 26.784 $\chi^2/\text{NDF}: 40548.1/29$

Out: -3584.454 ± 25.496 $\chi^2/\text{NDF}: 49573.3/33$

All: -4061.244 ± 18.467 $\chi^2/\text{NDF}: 90857.0/63$

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16

Left Out: 111.655+/-0.024 χ^2/NDF : 641531.6/14

Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18

Left In: 113.459+/-0.026 χ^2/NDF : 447435.3/12

Left: 112.512+/-0.018 χ^2/NDF : 1091587.4/27

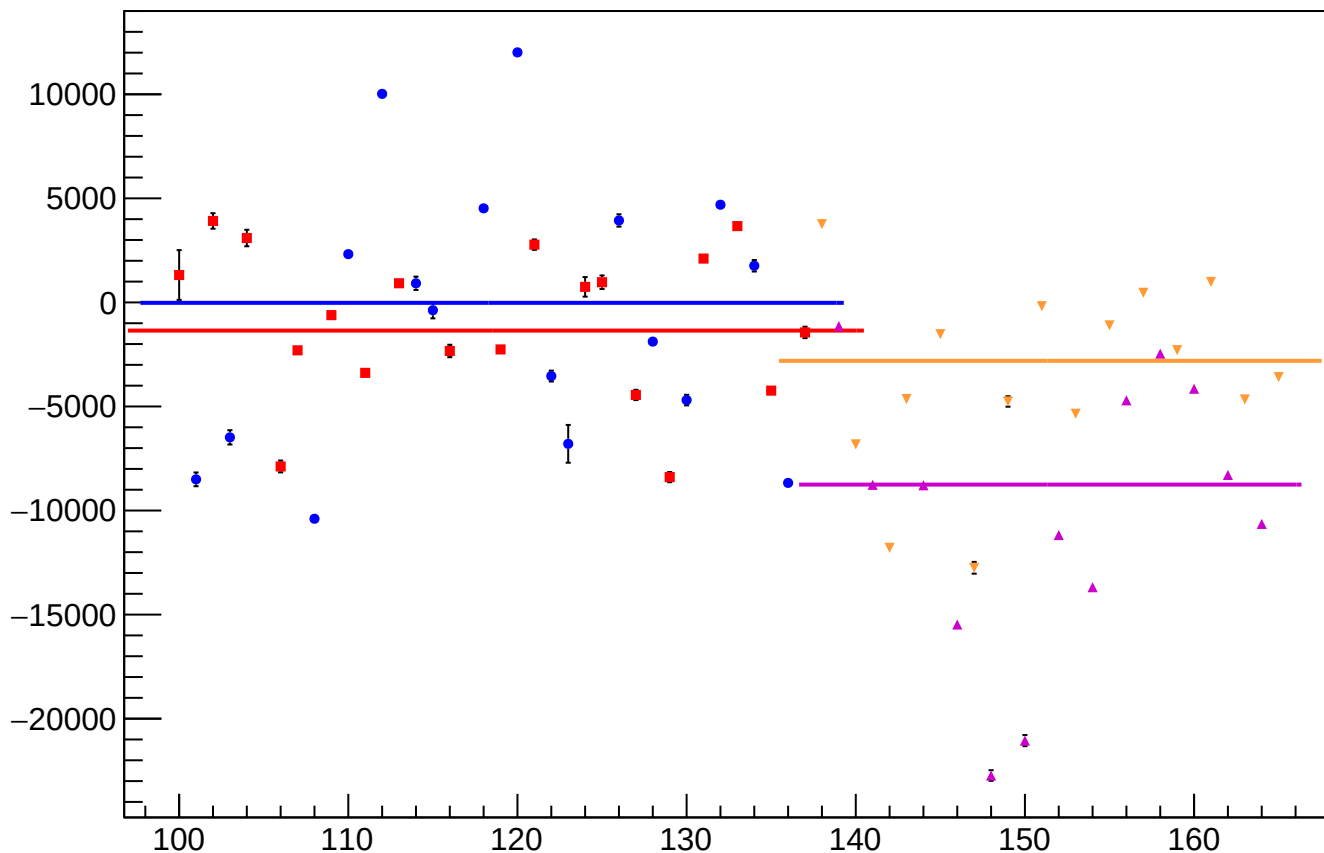
Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35

In: 106.011+/-0.019 χ^2/NDF : 1453966.3/29

Out: 104.272+/-0.018 χ^2/NDF : 1707100.2/33

All: 105.099+/-0.013 χ^2/NDF : 3165487.8/63

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 $\pm$ 54.643 χ^2/NDF : 16361.0/16

Left Out: -2805.496 $\pm$ 48.190 χ^2/NDF : 6718.0/14

Right Out: -1353.461 $\pm$ 52.367 χ^2/NDF : 3837.2/18

Left In: -8753.420 $\pm$ 51.649 χ^2/NDF : 12018.8/12

Left: -5573.606 $\pm$ 35.235 χ^2/NDF : 25826.8/27

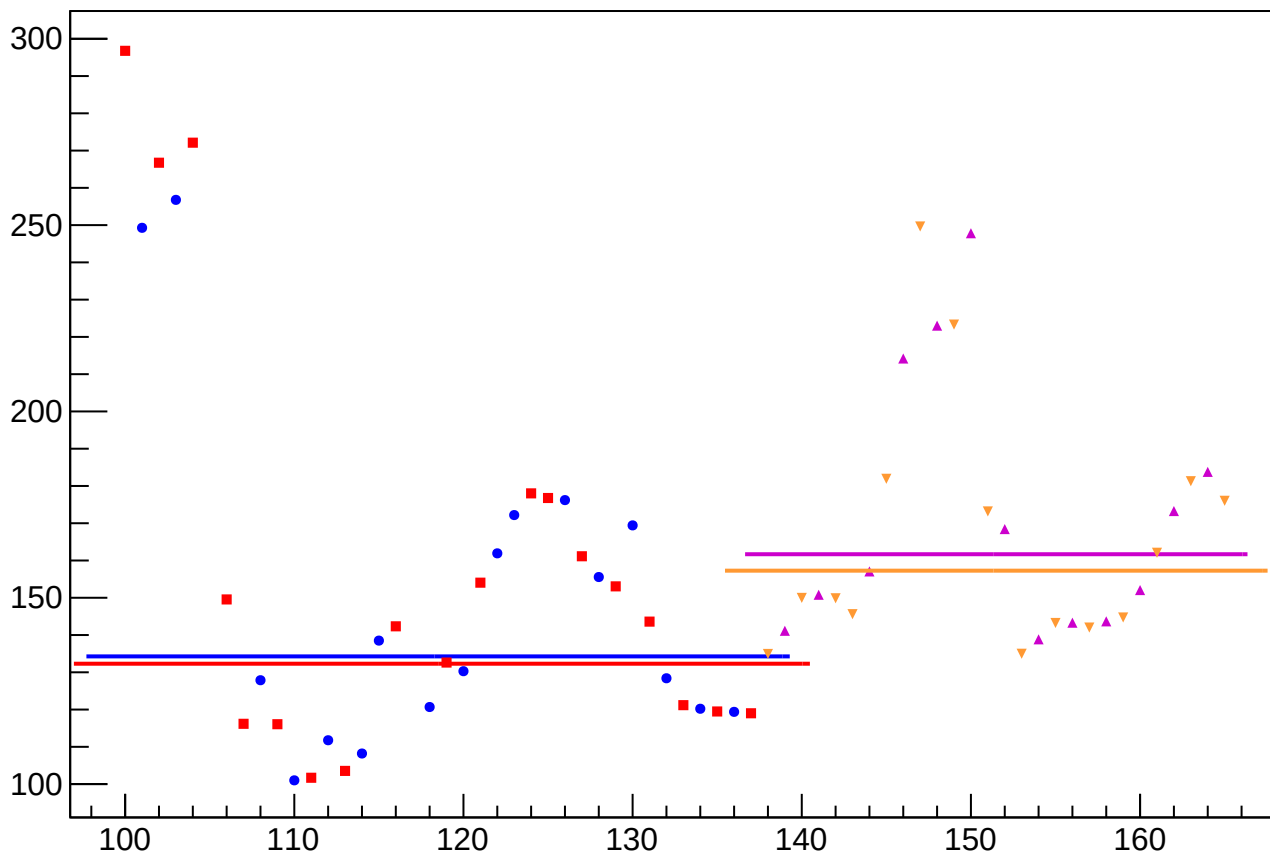
Right: -715.084 $\pm$ 37.808 χ^2/NDF : 20508.6/35

In: -4632.547 $\pm$ 37.535 χ^2/NDF : 41871.0/29

Out: -2139.693 $\pm$ 35.460 χ^2/NDF : 10971.5/33

All: -3315.305 $\pm$ 25.777 χ^2/NDF : 55173.2/63

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 157.272 $\pm$ 0.034 χ^2 /NDF: 576540.6/14

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 161.683 $\pm$ 0.037 χ^2 /NDF: 588336.5/12

Left: 159.325 $\pm$ 0.025 χ^2 /NDF: 1172677.8/27

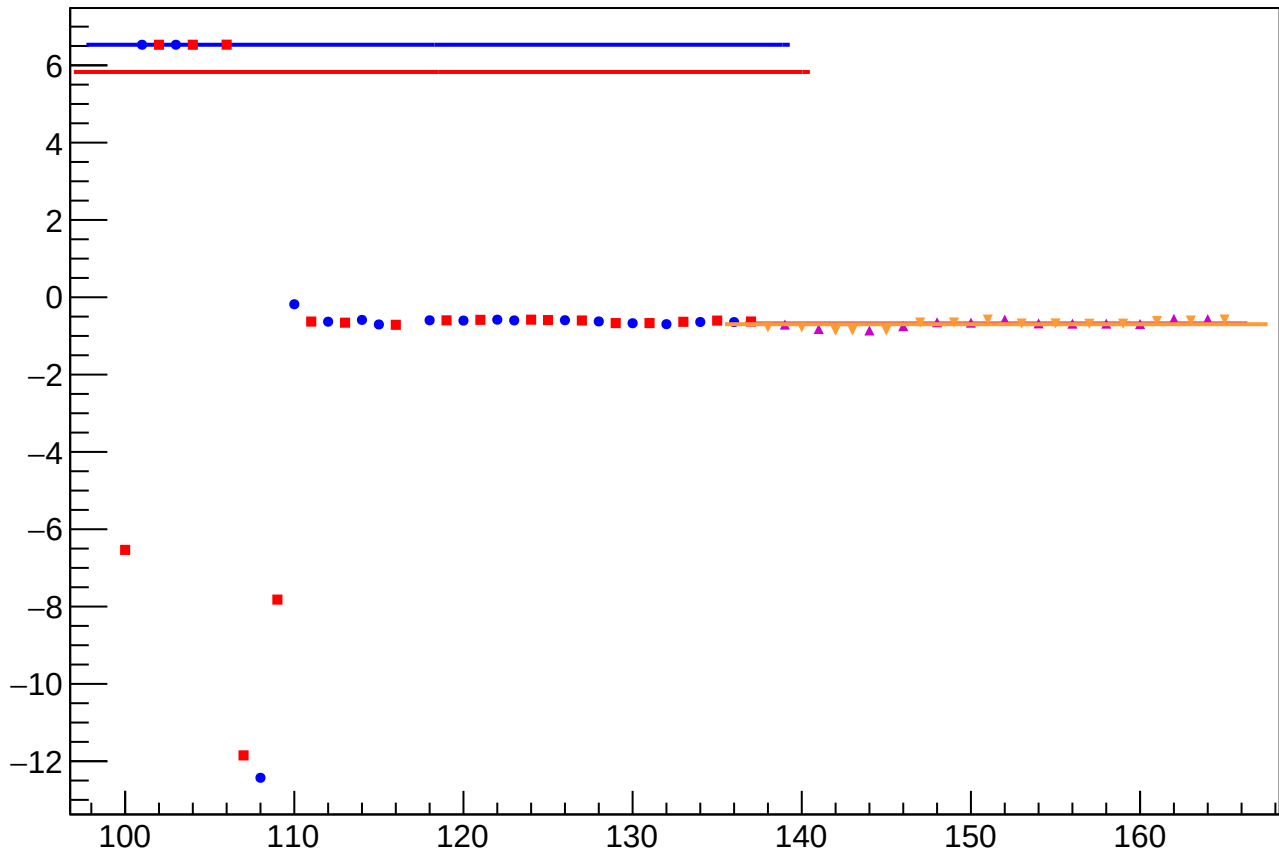
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 148.747 $\pm$ 0.027 χ^2 /NDF: 1642881.1/29

Out: 145.822 $\pm$ 0.025 χ^2 /NDF: 1692651.2/33

All: 147.202 $\pm$ 0.018 χ^2 /NDF: 3341948.9/63

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.697+/-0.000 χ^2/NDF : 104830553.5/14

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.678+/-0.000 χ^2/NDF : 84903387.2/12

Left: -0.688+/-0.000 χ^2/NDF : 191381718.7/27

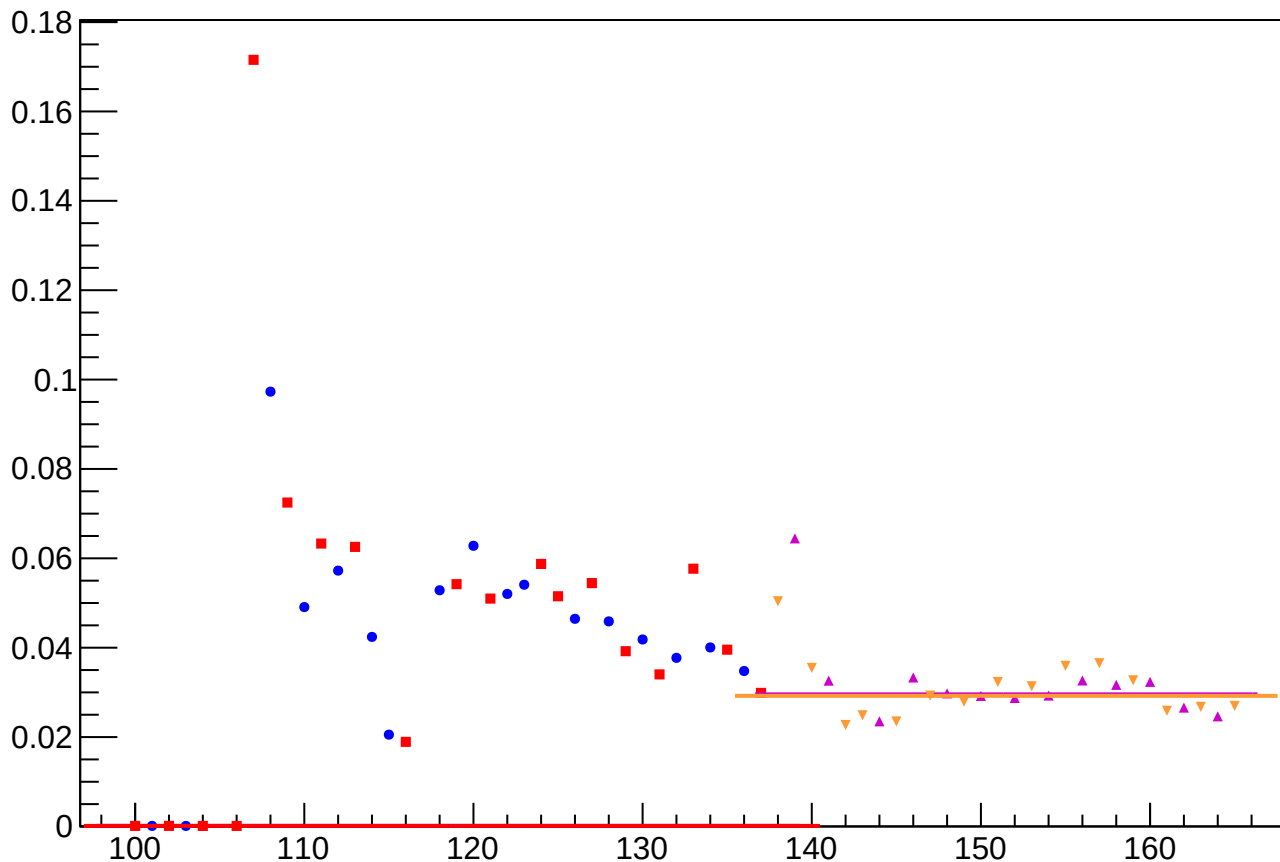
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/30

In: 6.531+/-0.000 χ^2/NDF : 615899818162.2/29

Out: 5.827+/-0.000 χ^2/NDF : 756385581729773.0/31

All: 6.154+/-0.000 χ^2/NDF : 77700000934488.0/69

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 9028405.7/16

Left Out: 0.029 $\pm$ 0.000 χ^2 /NDF:569569.1/14

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 9373556.8/18

Left In: 0.030 $\pm$ 0.000 χ^2 /NDF:578970.3/12

Left: 0.029 $\pm$ 0.000 χ^2 /NDF: 1149617.1/27

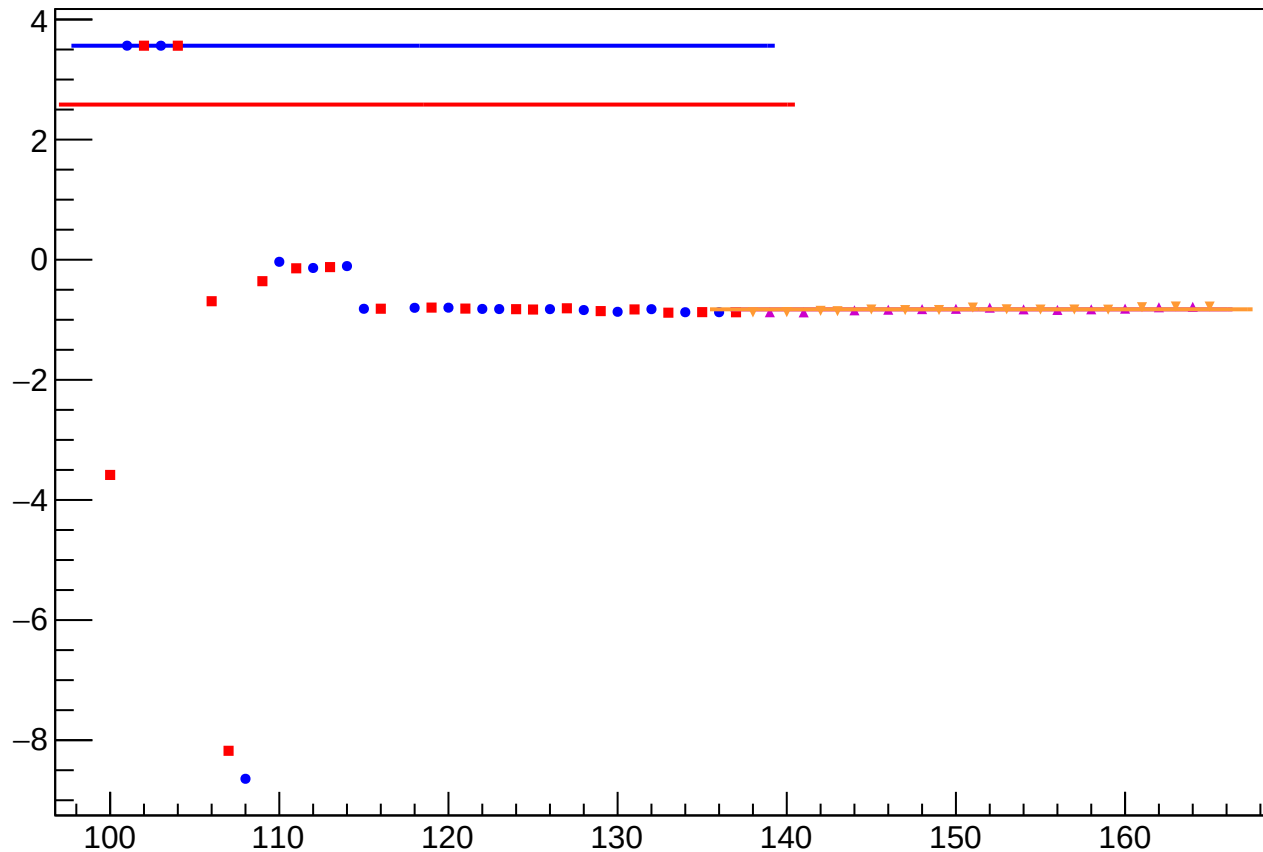
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 18402211.3/35

In: 0.000 $\pm$ 0.000 χ^2 /NDF:25867122.6/29

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:27325948.8/33

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 53193387.6/63

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563 $\pm$ 0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.826 $\pm$ 0.000 χ^2/NDF : 122713701.2/14

Right Out: 2.583 $\pm$ 0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.827 $\pm$ 0.000 χ^2/NDF : 90317119.8/12

Left: -0.826 $\pm$ 0.000 χ^2/NDF : 213084856.7/27

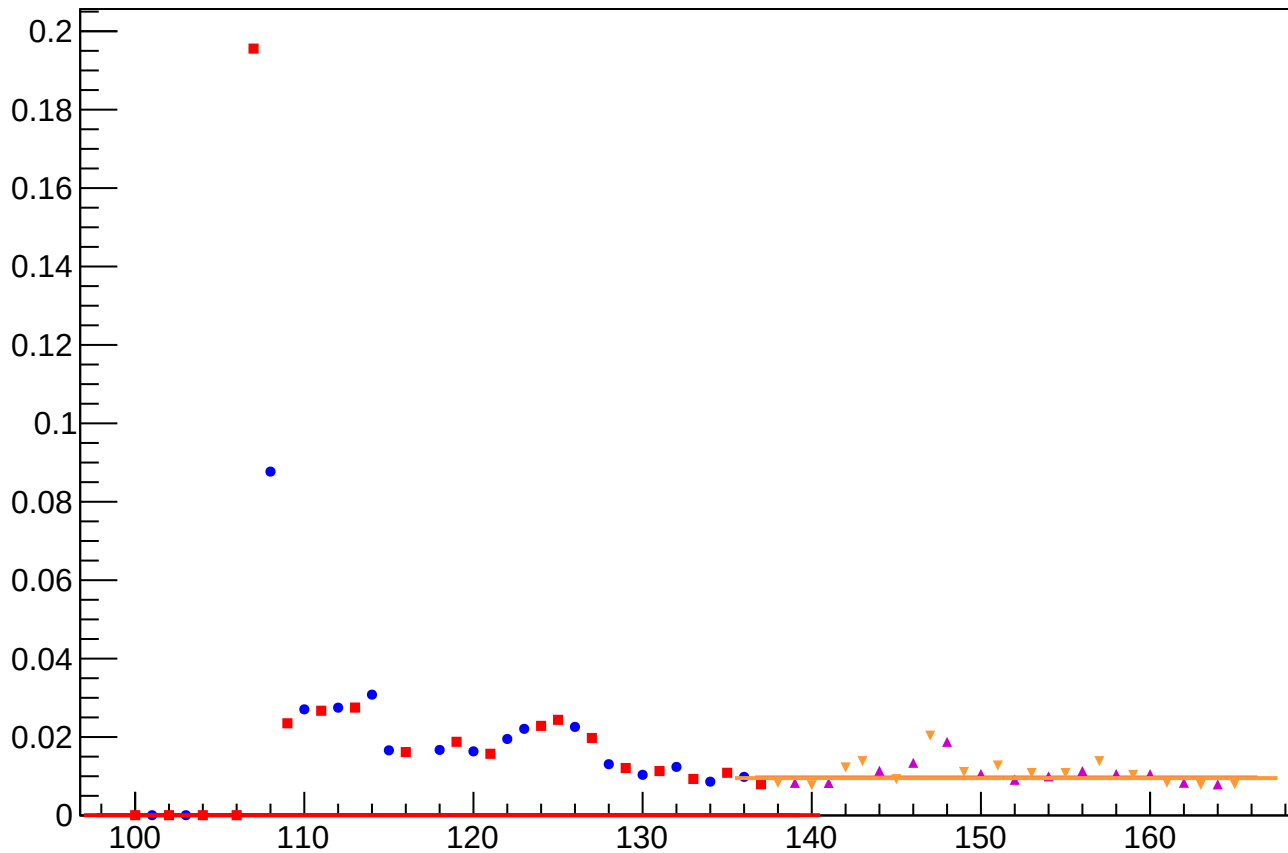
Right: 3.040 $\pm$ 0.000 χ^2/NDF : 1382263247622324.7

In: 3.562 $\pm$ 0.000 χ^2/NDF : 2147783829620.9/29

Out: 2.582 $\pm$ 0.000 χ^2/NDF : 1254602411287433.2

All: 3.039 $\pm$ 0.000 χ^2/NDF : 13849628304838.7

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.010+/-0.000 χ^2/NDF :1015113.9/14

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.010+/-0.000 χ^2/NDF :672153.9/12

Left: 0.010+/-0.000 χ^2/NDF : 1688363.8/27

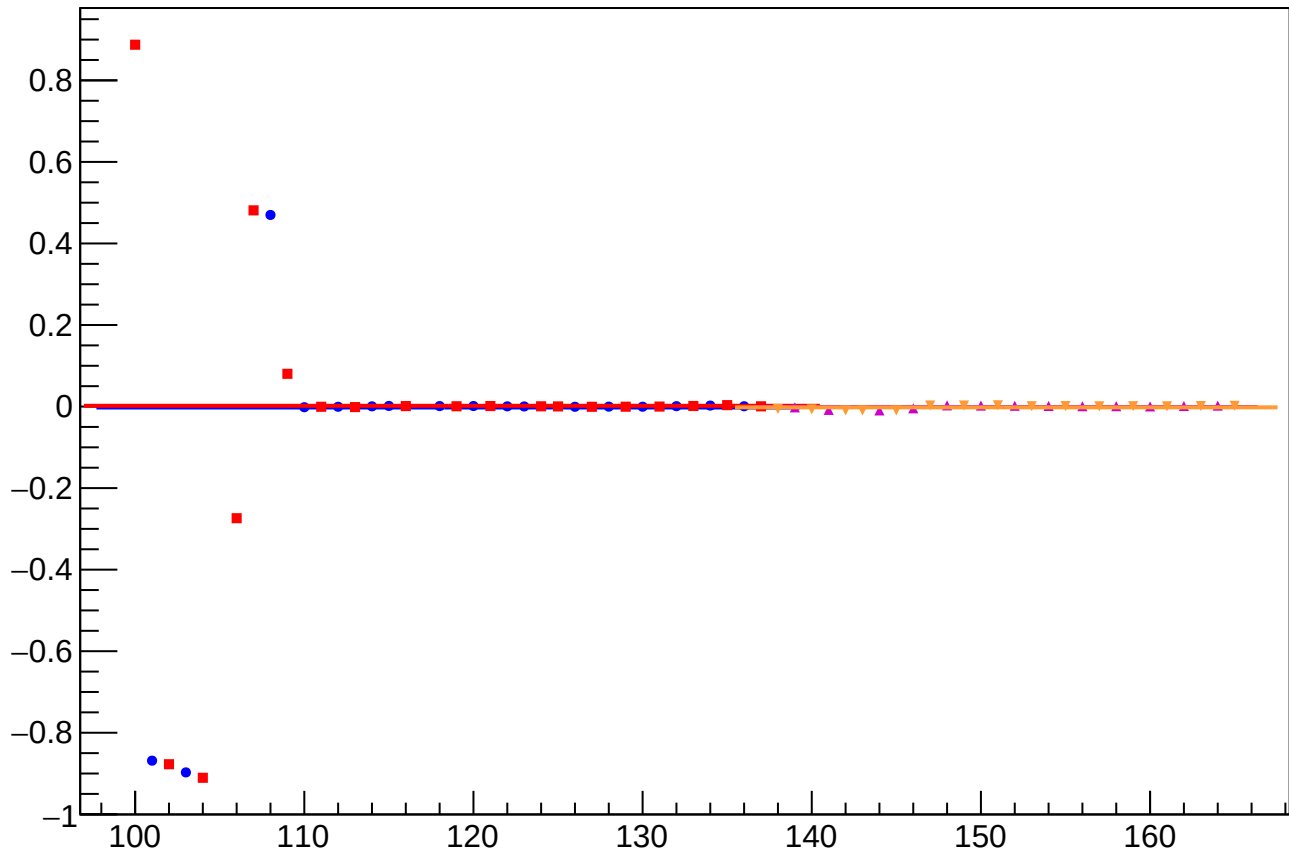
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :26295197.0/29

Out: 0.000+/-0.000 χ^2/NDF :27782113.9/33

All: 0.000+/-0.000 χ^2/NDF : 54077698.2/63

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.002+/-0.000 χ^2/NDF : 88972275.8/14

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: -0.001+/-0.000 χ^2/NDF : 63463415.9/12

Left: -0.002+/-0.000 χ^2/NDF : 153758754.1/27

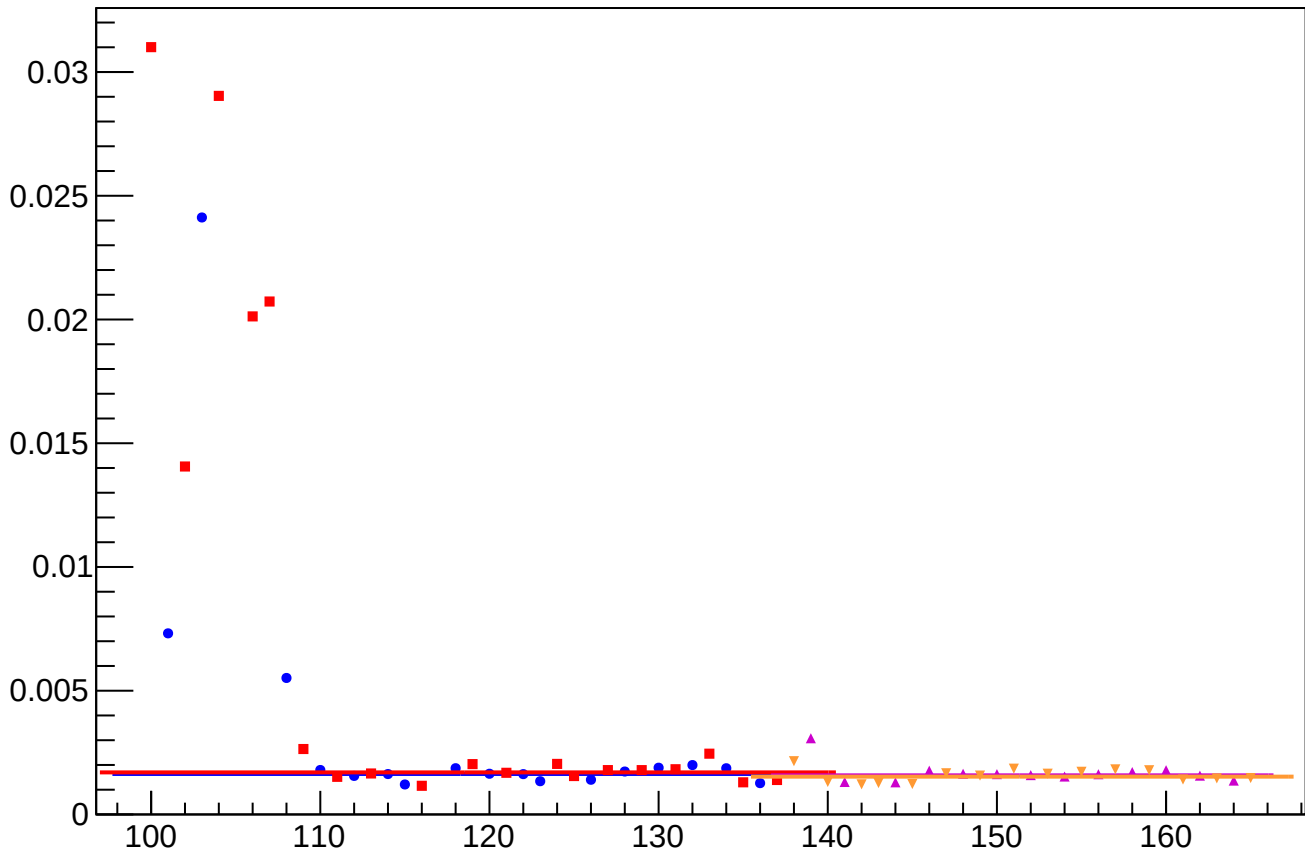
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9860547032.2/29

Out: -0.001+/-0.000 χ^2/NDF : 3145951265.3/33

All: -0.001+/-0.000 χ^2/NDF : 13007589846.9/70

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1919127.9/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 419378.7/14

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3025332.9/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF: 497268.1/12

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 926221.0/27

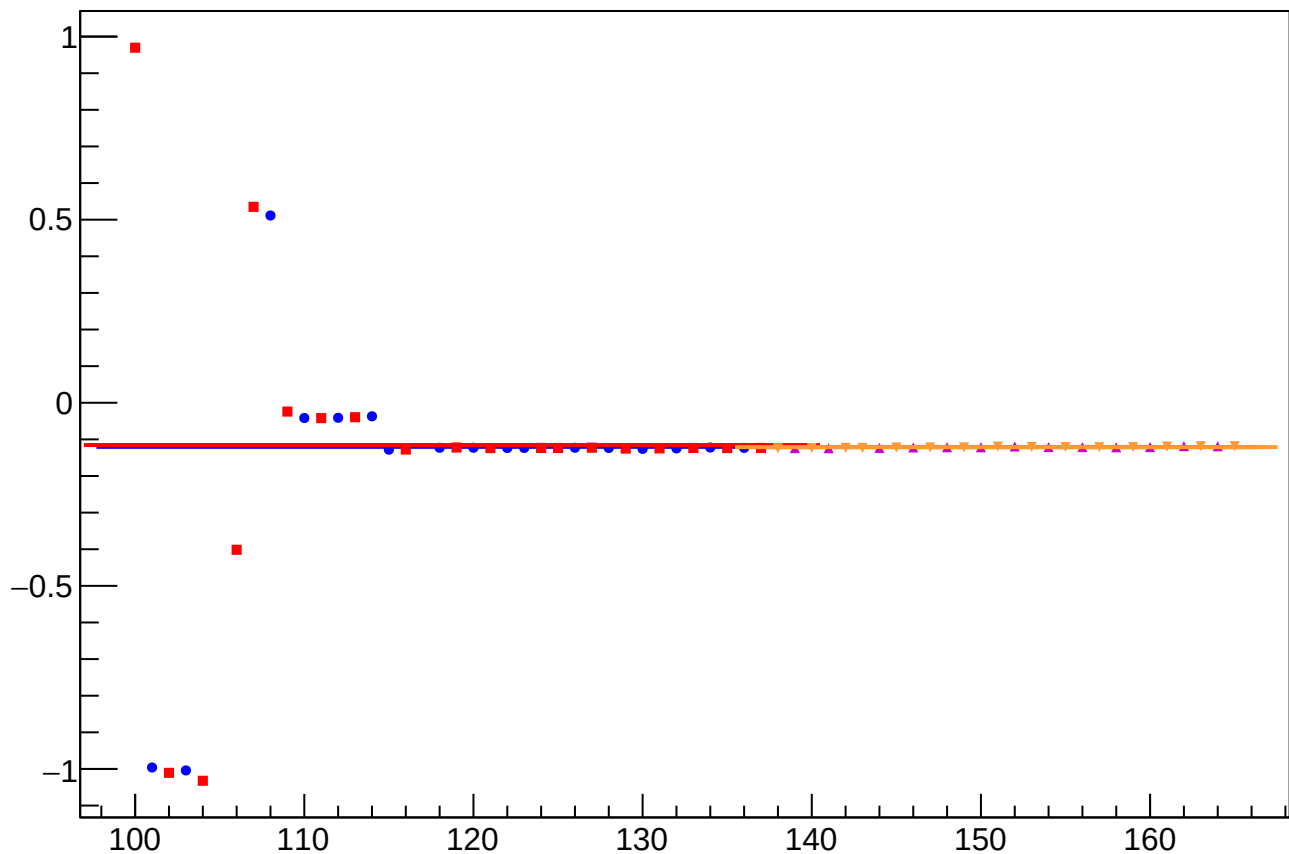
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2423437.6/29

Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3509297.4/33

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 5935006.0/63

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932311162.8/16

Left Out: -0.121+/-0.000 χ^2/NDF : 24779517.6/14

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 23691611.8/12

Left: -0.121+/-0.000 χ^2/NDF : 48484197.6/27

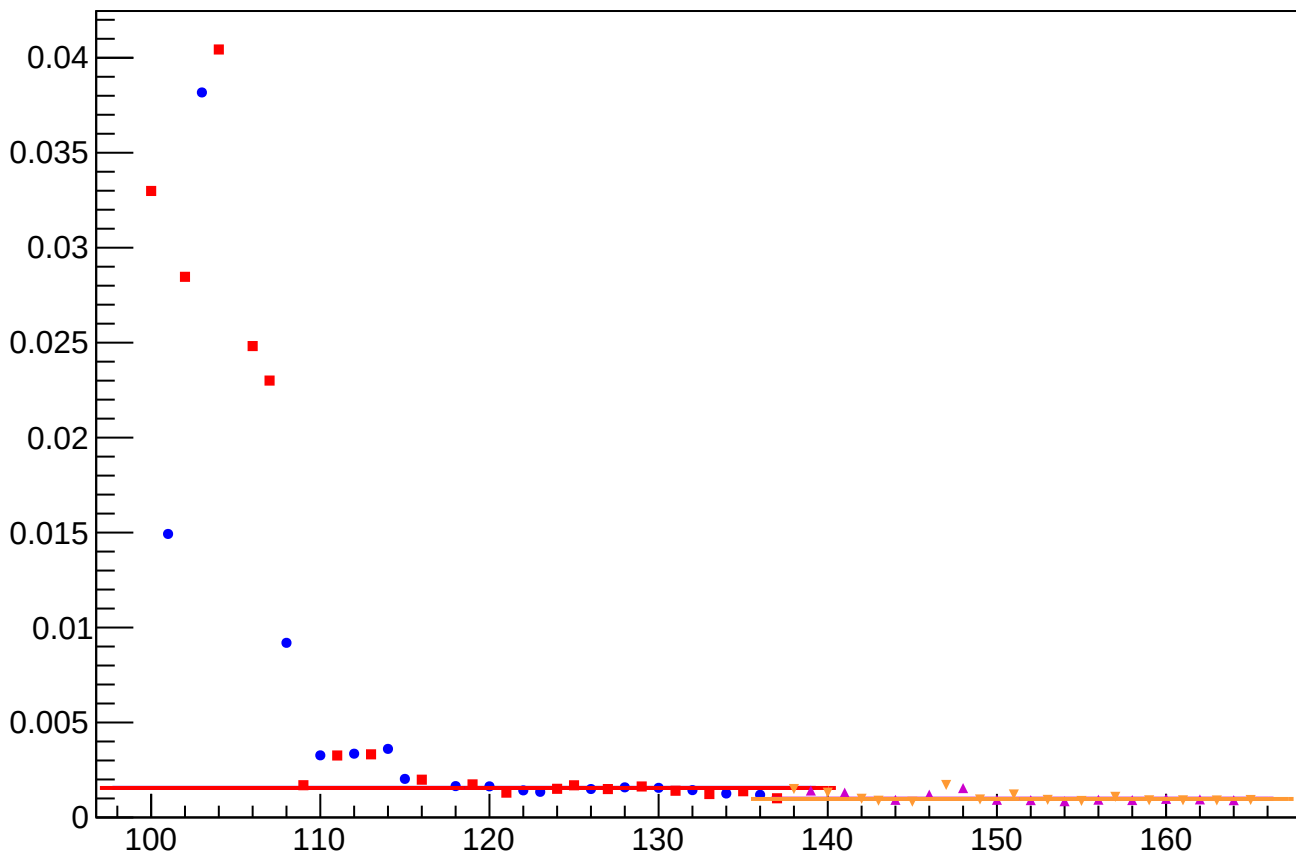
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3956787620.5/29

Out: -0.120+/-0.000 χ^2/NDF : 2533783838.5/33

All: -0.121+/-0.000 χ^2/NDF : 6493415194.5/6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2903607.4/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF: 716060.2/14

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3538622.3/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF: 529768.9/12

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1248095.4/27

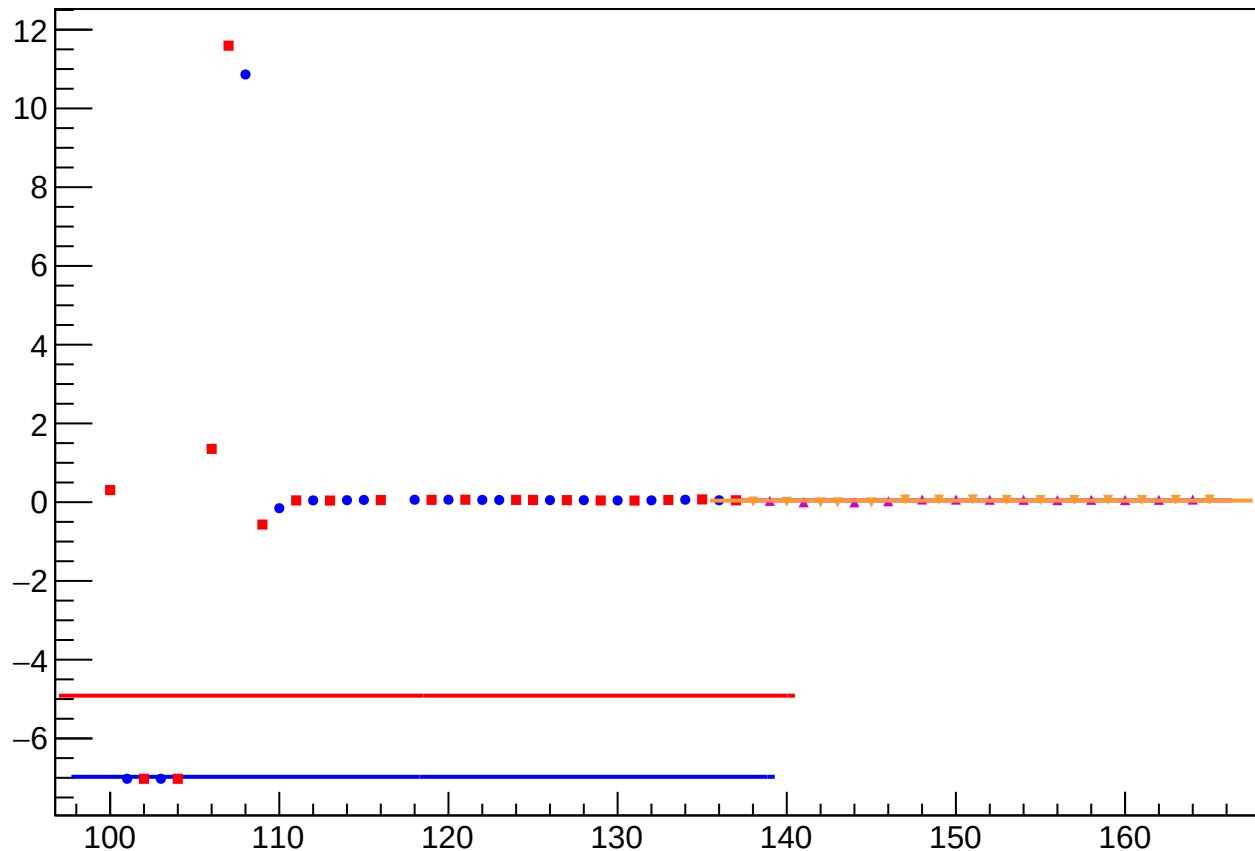
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 6442279.4/35

In: 0.001 $\pm$ 0.000 χ^2 /NDF: 4462763.2/29

Out: 0.001 $\pm$ 0.000 χ^2 /NDF: 5332191.5/33

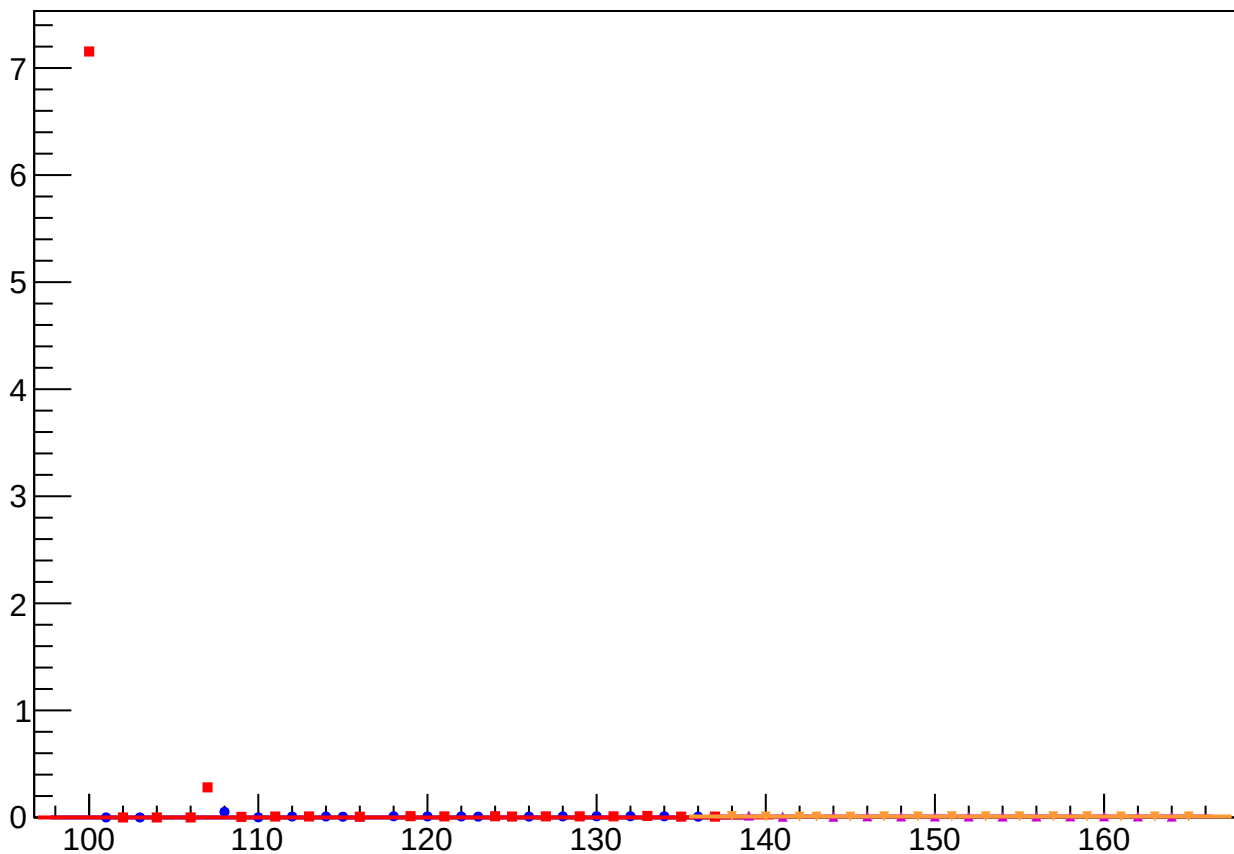
All: 0.001 $\pm$ 0.000 χ^2 /NDF: 9800375.9/63

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$ Left: 0.042 ± 0.000 $\chi^2/\text{NDF}: 162820004.9/27$
 Left Out: 0.040 ± 0.000 $\chi^2/\text{NDF}: 91160179.7/14$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$ In: -6.949 ± 0.000 $\chi^2/\text{NDF}: 13442310460045.9/29$
 Left In: 0.044 ± 0.000 $\chi^2/\text{NDF}: 70637390.1/12$ Out: -4.895 ± 0.000 $\chi^2/\text{NDF}: 367984500003690.6/18$
 All: -5.877 ± 0.000 $\chi^2/\text{NDF}: 4374479335222.0/170$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 411797.2/14

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF : 492721.7/12

Left: 0.009+/-0.000 χ^2/NDF : 912820.4/27

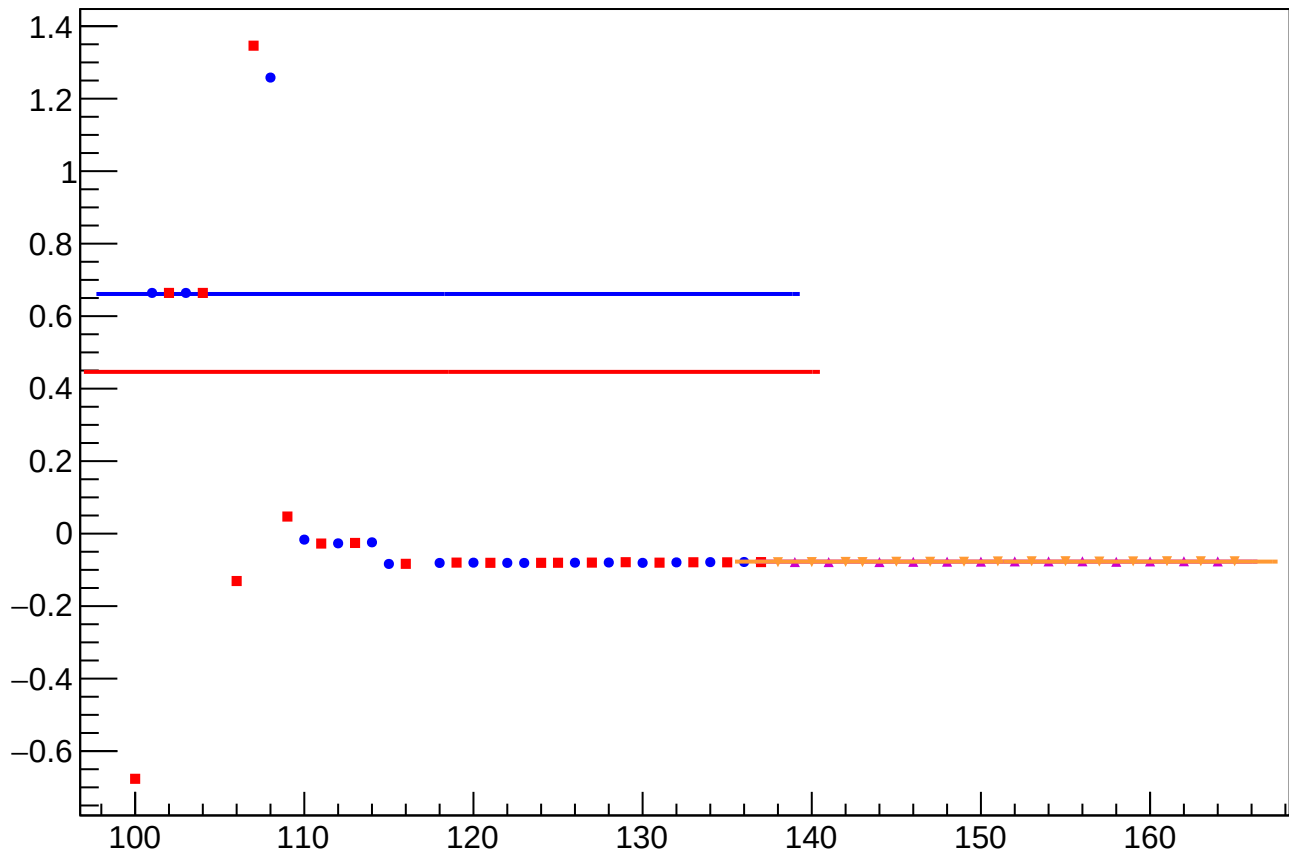
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 24600035.4/29

Out: 0.000+/-0.000 χ^2/NDF : 25934386.7/33

All: 0.000+/-0.000 χ^2/NDF : 50534722.2/63

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5678332616622.1/16

Left: -0.077+/-0.000

χ^2/NDF : 46676505.2/27

Left Out: -0.077+/-0.000

χ^2/NDF : 27342206.4/14

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9/

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.653+/-0.000

χ^2/NDF : 21664822033100.8/29

Out: 0.440+/-0.000

χ^2/NDF : 414086065048474.9/3

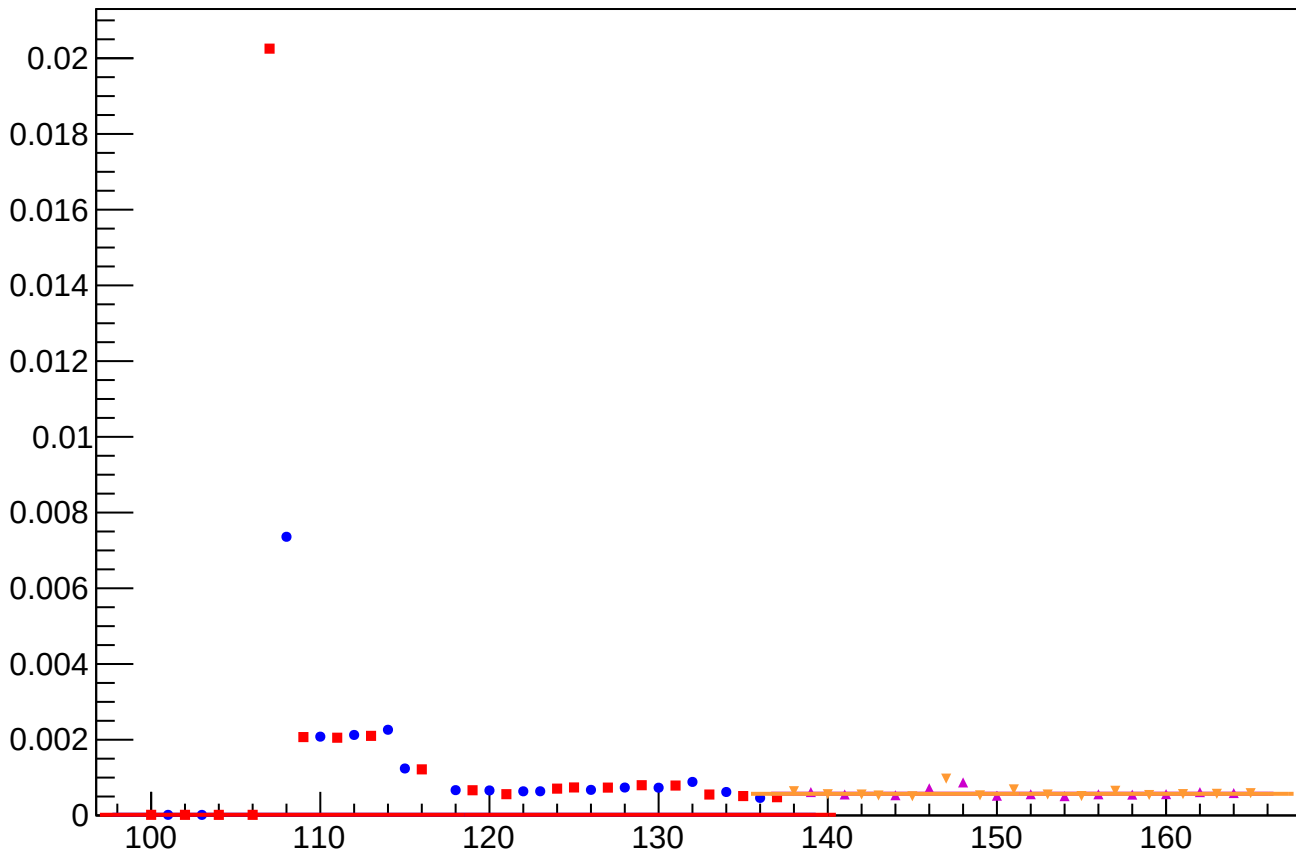
Left In: -0.077+/-0.000

χ^2/NDF : 19330788.5/12

All: 0.542+/-0.000

χ^2/NDF : 49789186589543

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9997012.7/16

Left Out: 0.001+/-0.000 $\chi^2/\text{NDF}: 407945.6/14$

Right Out: 0.000+/-0.000 χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000 χ^2/NDF :312489.5/12

Left: 0.001 ± 0.000 $\chi^2/\text{NDF}: 720656.9/27$

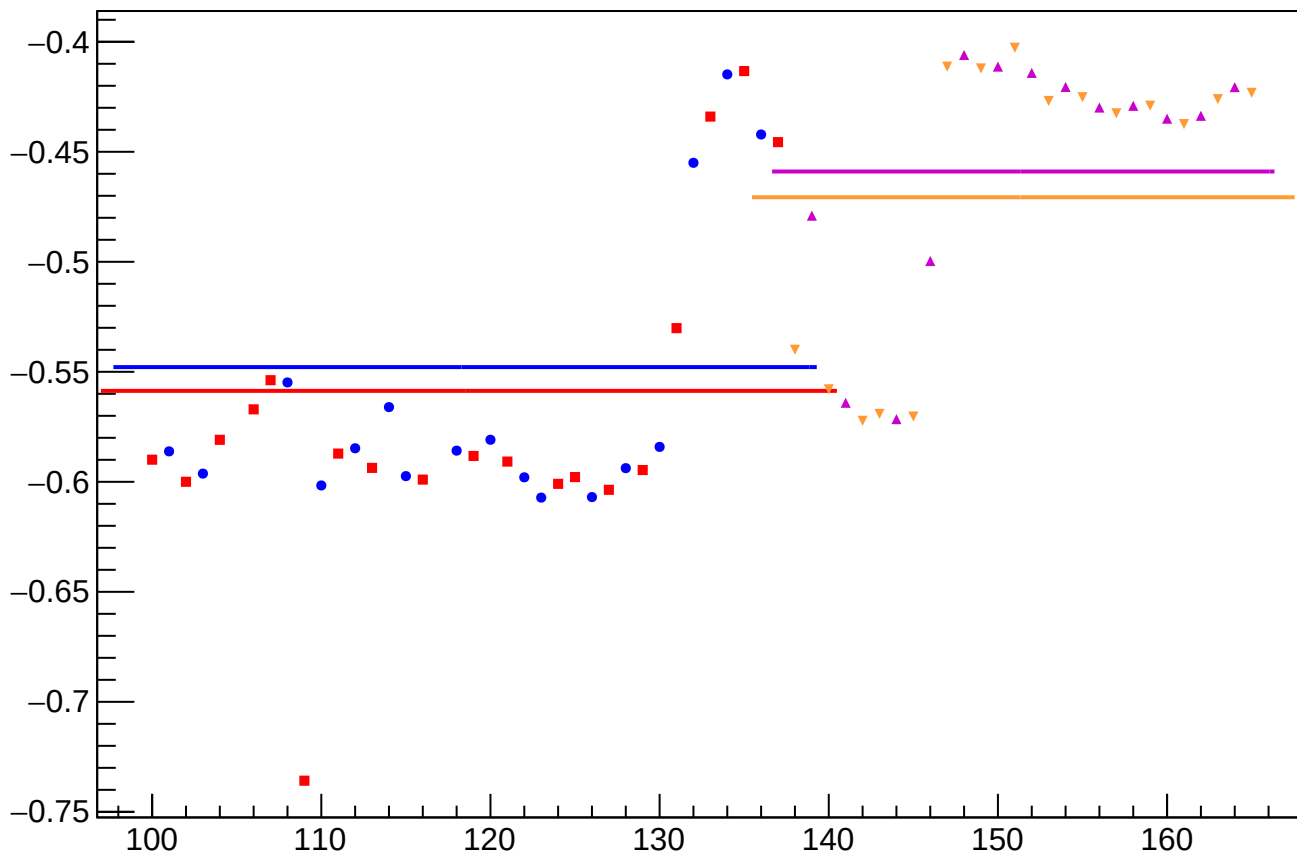
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF :28429172.4/29

Out: 0.000+/-0.000 χ^2/NDF :29250230.5/33

All: 0.000+/-0.000 χ^2/NDF : 57679520.7/63

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548 $\pm$ 0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.471 $\pm$ 0.000 χ^2/NDF : 99399788.4/14

Right Out: -0.559 $\pm$ 0.000 χ^2/NDF : 65682293.5/18

Left In: -0.459 $\pm$ 0.000 χ^2/NDF : 71243884.5/12

Left: -0.465 $\pm$ 0.000 χ^2/NDF : 172057416.9/27

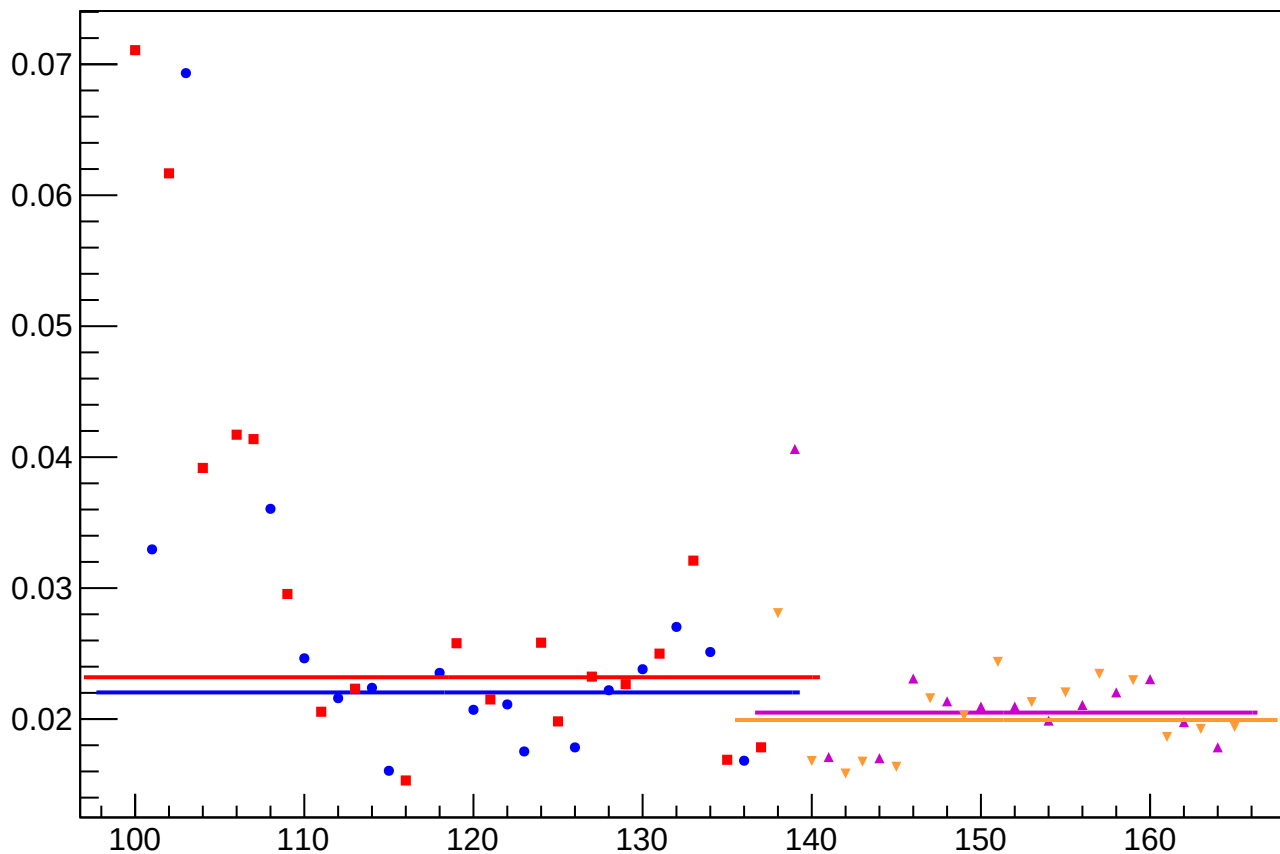
Right: -0.553 $\pm$ 0.000 χ^2/NDF : 114857155.8/35

In: -0.490 $\pm$ 0.000 χ^2/NDF : 173817568.0/29

Out: -0.498 $\pm$ 0.000 χ^2/NDF : 217937224.6/33

All: -0.494 $\pm$ 0.000 χ^2/NDF : 392734944.1/63

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020+/-0.000 χ^2/NDF : 392774.2/14

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 498714.9/12

Left: 0.020+/-0.000 χ^2/NDF : 898060.7/27

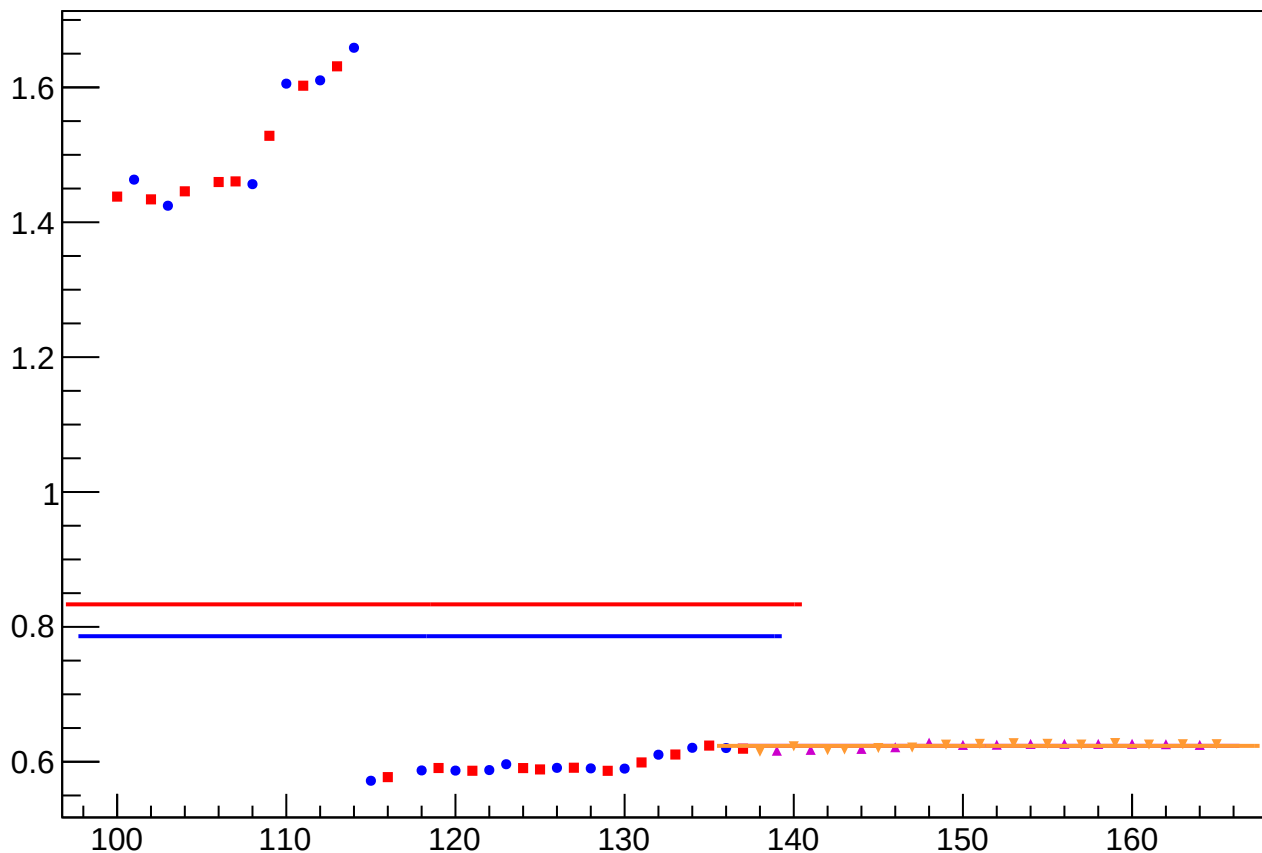
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1490066.0/29

Out: 0.021+/-0.000 χ^2/NDF : 1695205.4/33

All: 0.021+/-0.000 χ^2/NDF : 3185505.3/63

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786 $\pm$ 0.000 χ^2/NDF : 3590113316.1/16

Left Out: 0.624 $\pm$ 0.000 χ^2/NDF : 1044181.9/14

Right Out: 0.833 $\pm$ 0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.624 $\pm$ 0.000 χ^2/NDF : 878745.5/12

Left: 0.624 $\pm$ 0.000 χ^2/NDF : 1922999.0/27

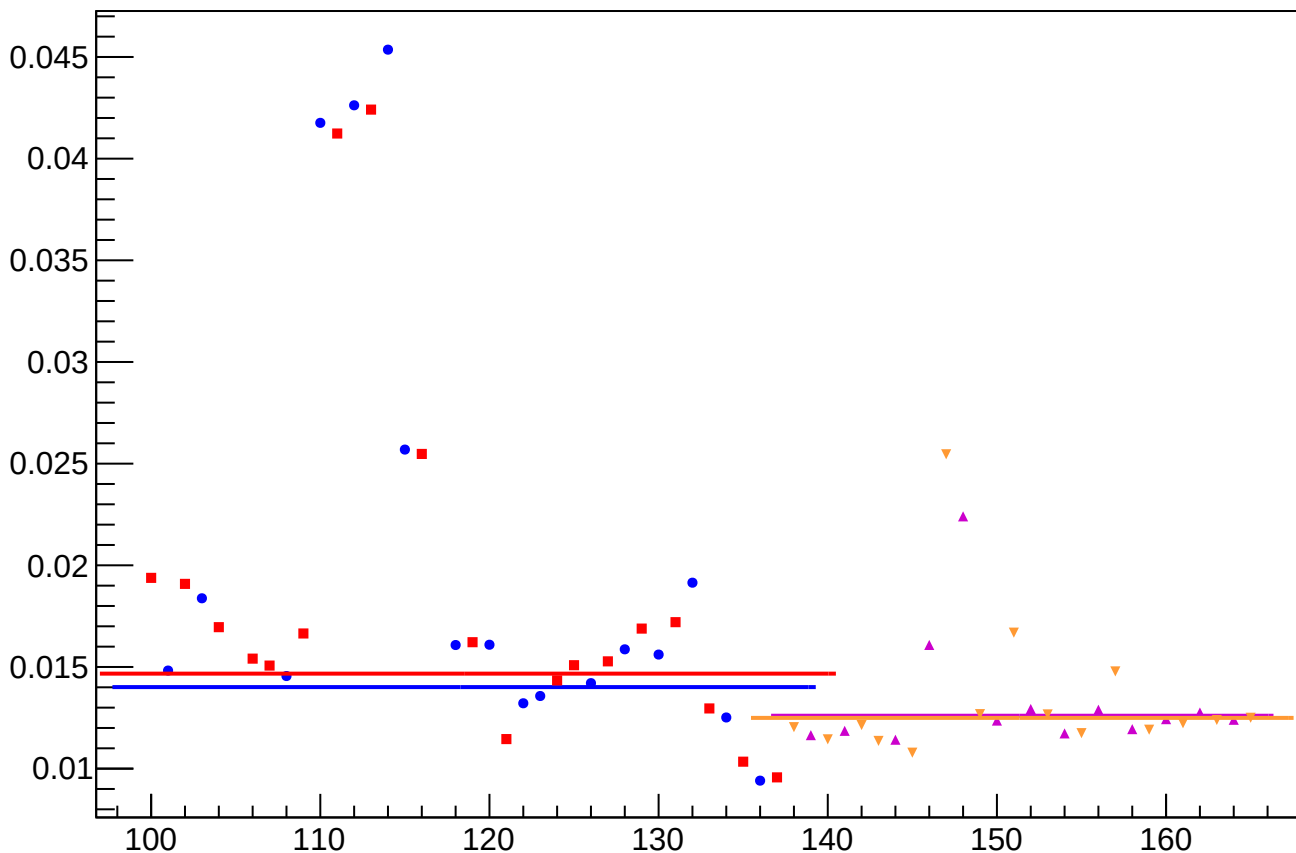
Right: 0.809 $\pm$ 0.000 χ^2/NDF : 7778629767.1/35

In: 0.675 $\pm$ 0.000 χ^2/NDF : 4111649955.5/29

Out: 0.685 $\pm$ 0.000 χ^2/NDF : 5025581324.9/33

All: 0.681 $\pm$ 0.000 χ^2/NDF : 9141779052.8/63

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.012+/-0.000 χ^2/NDF :588417.7/14

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.013+/-0.000 χ^2/NDF :409559.6/12

Left: 0.013+/-0.000 χ^2/NDF : 998698.9/27

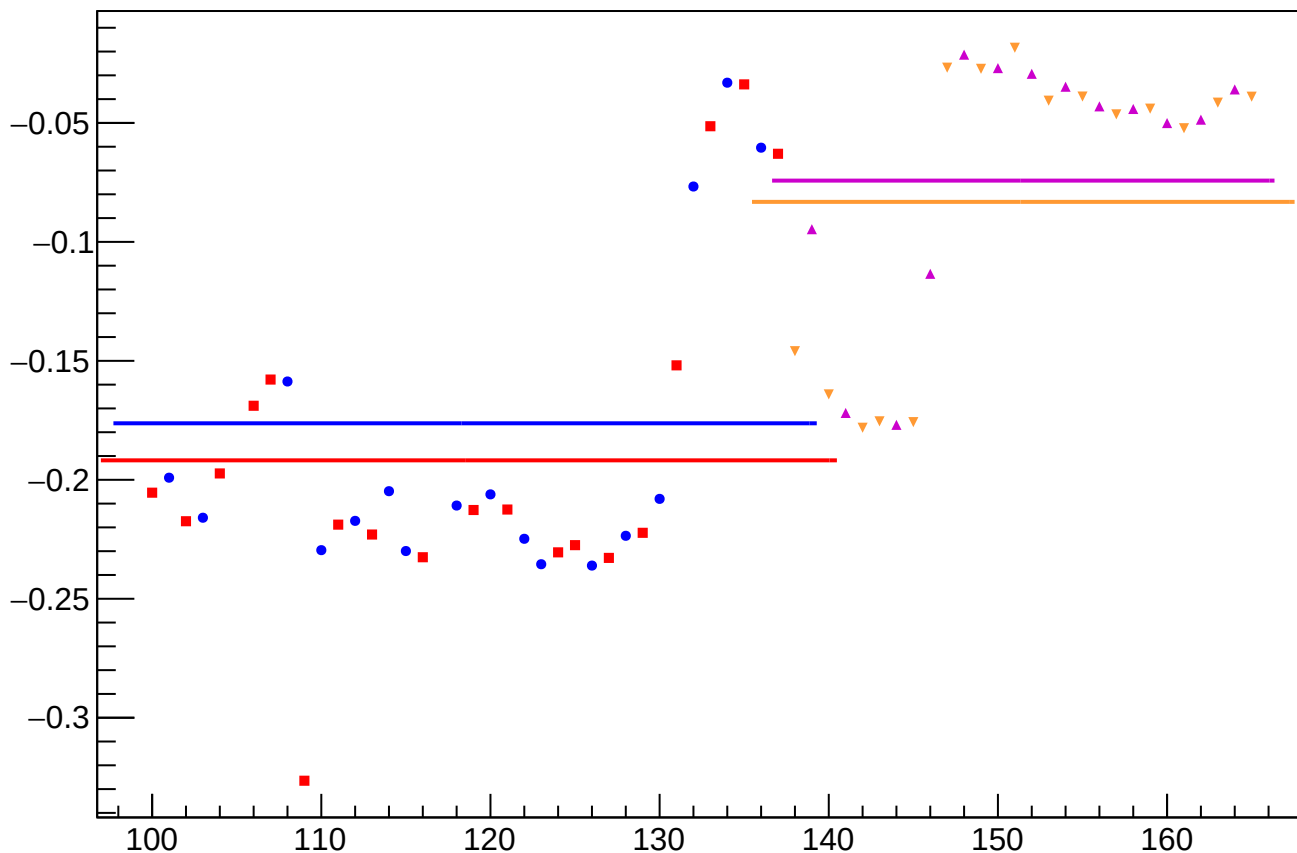
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1892604.7/29

Out: 0.013+/-0.000 χ^2/NDF :2038540.4/33

All: 0.013+/-0.000 χ^2/NDF : 3931826.0/63

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.083+/-0.000 χ^2/NDF : 95147728.5/14

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.074+/-0.000 χ^2/NDF : 71779314.2/12

Left: -0.079+/-0.000 χ^2/NDF : 167811494.4/27

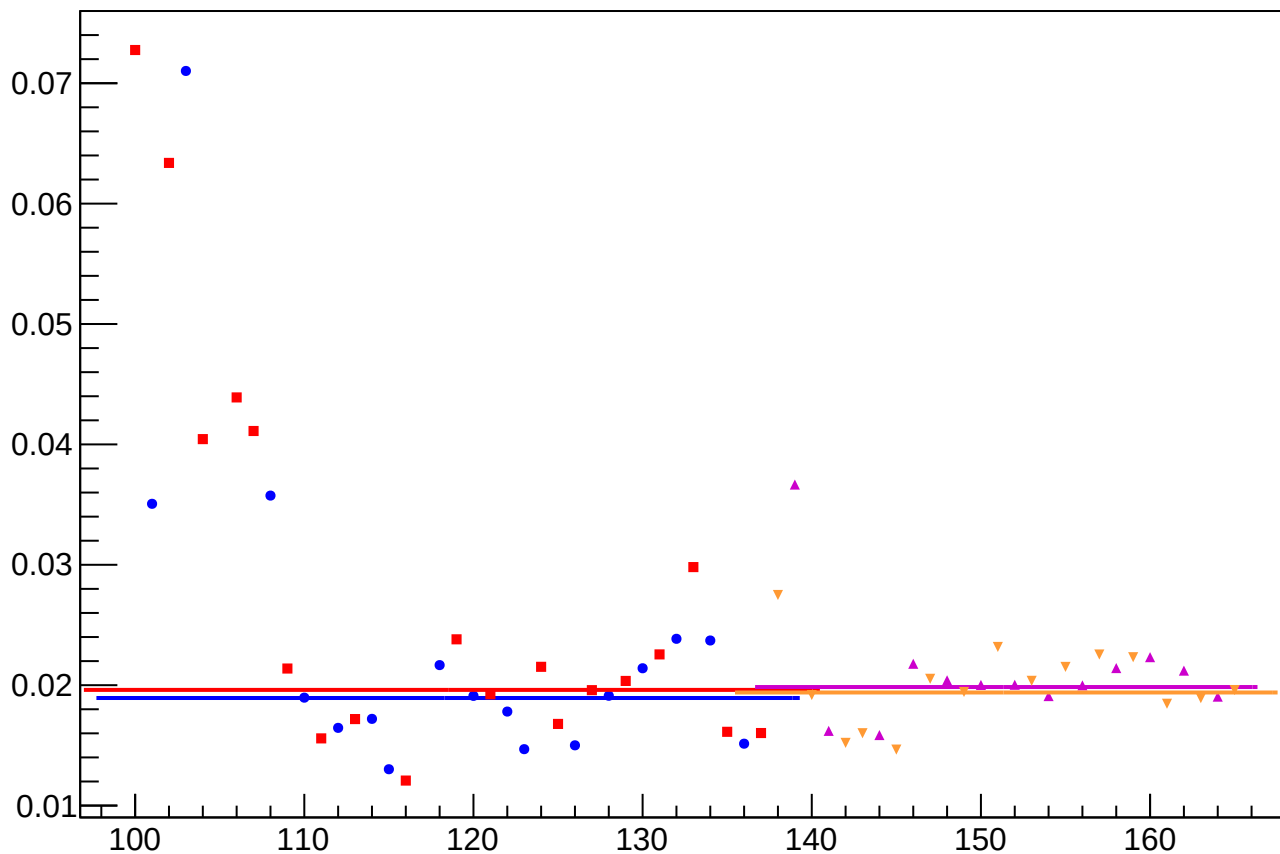
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.115+/-0.000 χ^2/NDF : 229212632.5/29

Out: -0.123+/-0.000 χ^2/NDF : 280124089.0/33

All: -0.119+/-0.000 χ^2/NDF : 510458763.9/63

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1205858.0/16

Left Out: 0.019+/-0.000 χ^2/NDF : 416915.0/14

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.020+/-0.000 χ^2/NDF : 469163.9/12

Left: 0.020+/-0.000 χ^2/NDF : 890635.3/27

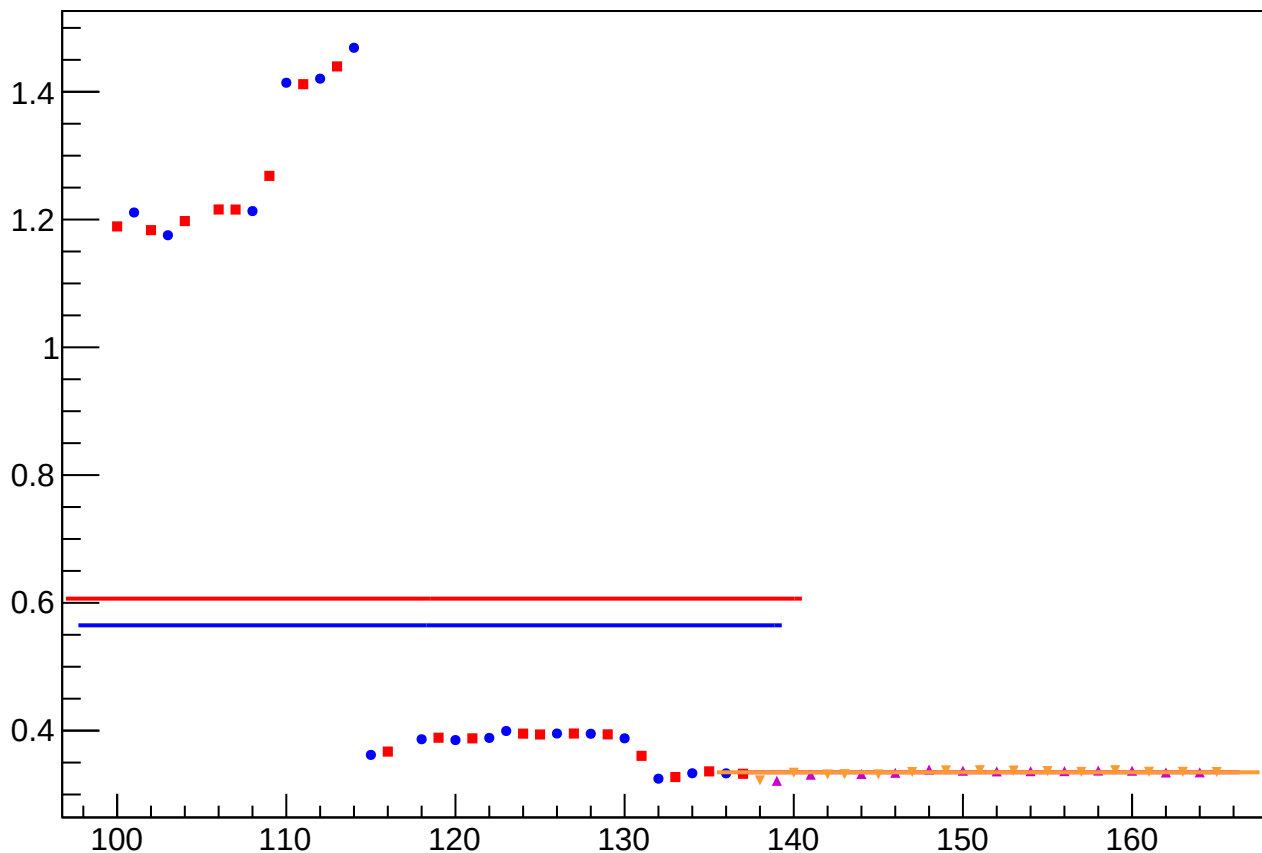
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1688972.5/29

Out: 0.019+/-0.000 χ^2/NDF : 1875373.2/33

All: 0.019+/-0.000 χ^2/NDF : 3564349.6/63

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565+/-0.000 χ^2/NDF : 5030969499.3/16

Left Out: 0.335+/-0.000 χ^2/NDF : 1069510.4/14

Right Out: 0.607+/-0.000 χ^2/NDF : 5513752213.8/18

Left In: 0.335+/-0.000 χ^2/NDF : 1153944.2/12

Left: 0.335+/-0.000 χ^2/NDF : 2223522.7/27

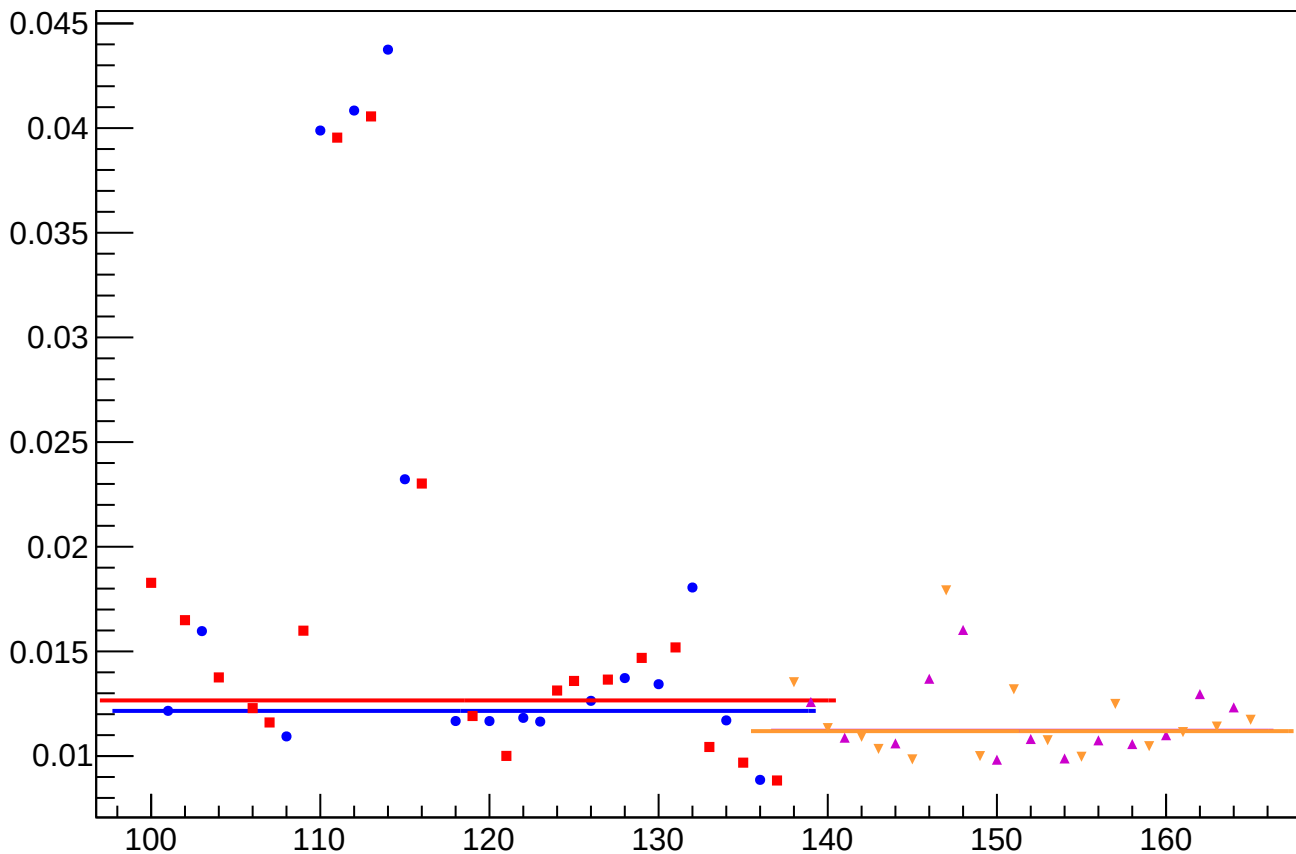
Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

In: 0.411+/-0.000 χ^2/NDF : 6390724838.3/29

Out: 0.418+/-0.000 χ^2/NDF : 7400802321.6/33

All: 0.414+/-0.000 χ^2/NDF : 13794621459.0/6

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 1309888.8/16

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 398117.4/14

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 1270689.5/18

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 321253.3/12

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 719393.4/27

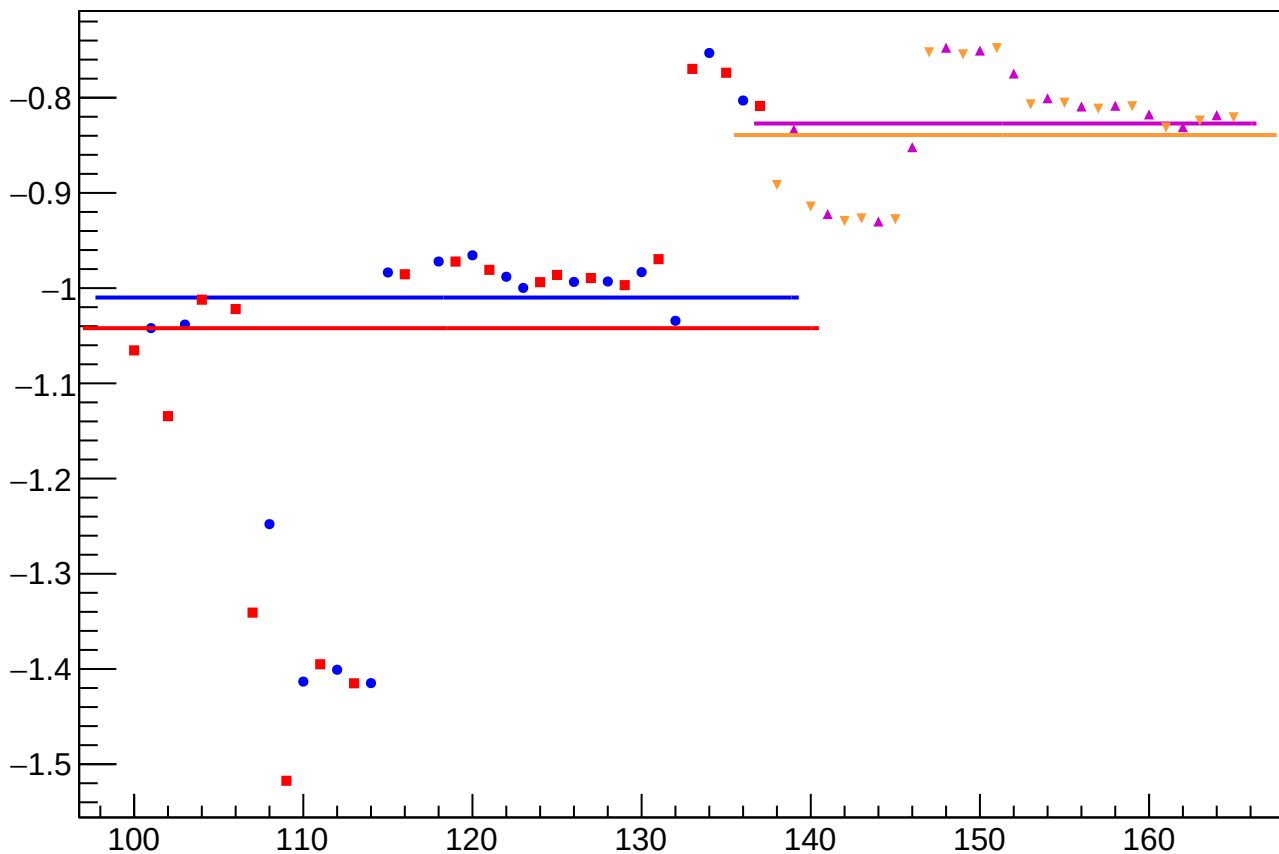
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 2589989.8/35

In: 0.012 $\pm$ 0.000 χ^2/NDF : 1677438.1/29

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 1778637.9/33

All: 0.012 $\pm$ 0.000 χ^2/NDF : 3457742.0/63

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 $\pm$ 0.000 χ^2 /NDF: 387650332.0/16

Left Out: -0.839 $\pm$ 0.000 χ^2 /NDF: 92687223.0/14

Right Out: -1.042 $\pm$ 0.000 χ^2 /NDF: 530106141.8/18

Left In: -0.827 $\pm$ 0.000 χ^2 /NDF: 70149614.1/12

Left: -0.834 $\pm$ 0.000 χ^2 /NDF: 164423123.6/27

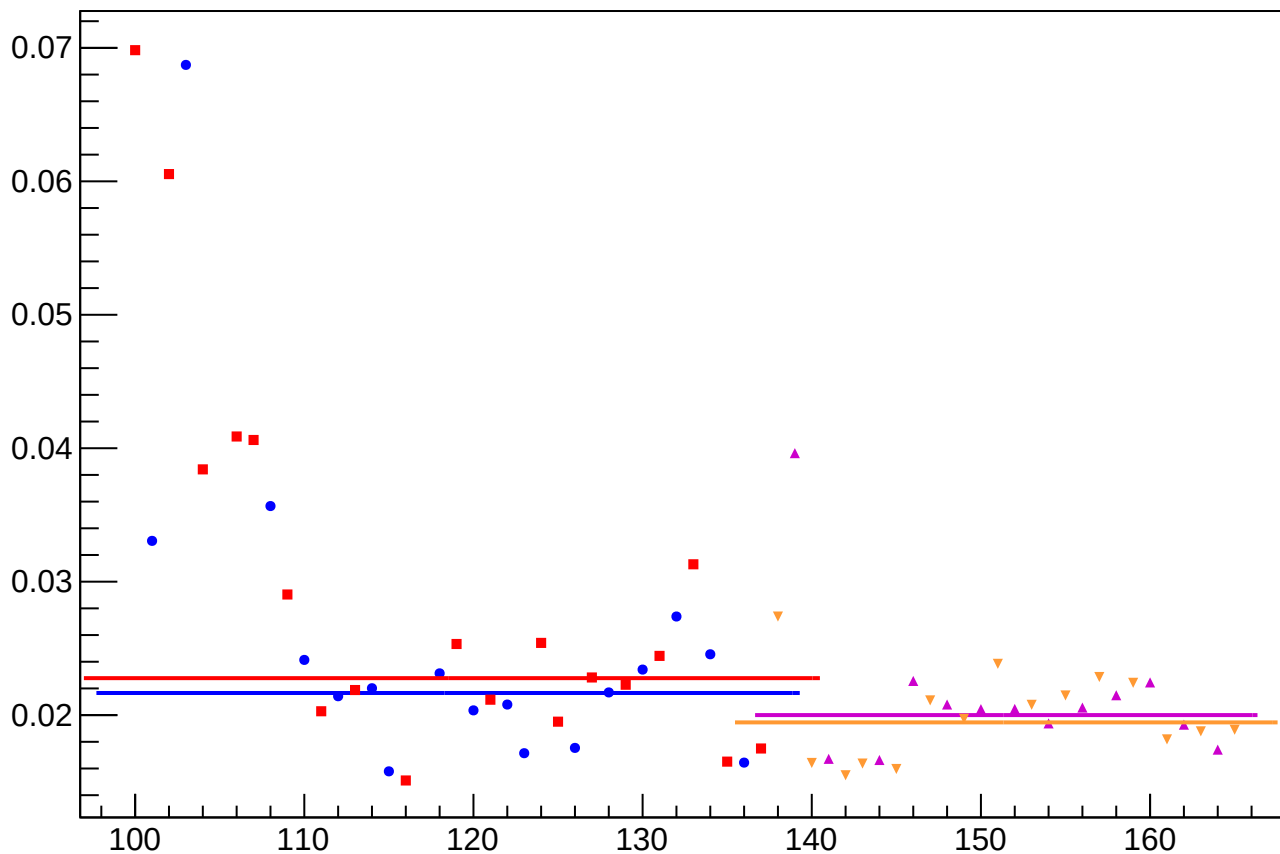
Right: -1.026 $\pm$ 0.000 χ^2 /NDF: 923225272.3/35

In: -0.890 $\pm$ 0.000 χ^2 /NDF: 694948861.7/29

Out: -0.902 $\pm$ 0.000 χ^2 /NDF: 914919720.1/33

All: -0.896 $\pm$ 0.000 χ^2 /NDF: 1611936899.2/6

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 390948.3/14

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.020+/-0.000 χ^2/NDF : 495660.4/12

Left: 0.020+/-0.000 χ^2/NDF : 893118.3/27

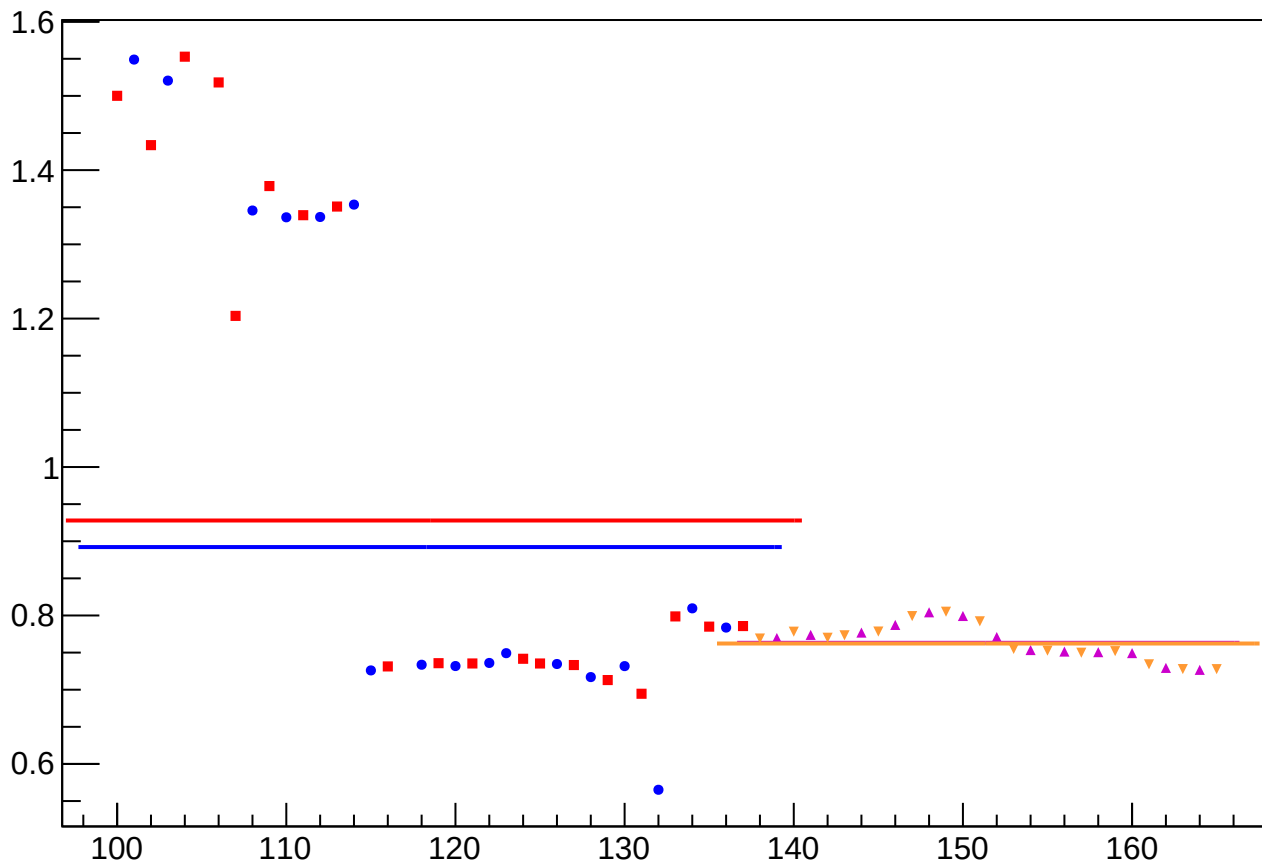
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.021+/-0.000 χ^2/NDF : 1518073.5/29

Out: 0.020+/-0.000 χ^2/NDF : 1699647.9/33

All: 0.021+/-0.000 χ^2/NDF : 3218038.6/63

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.762 $\pm$ 0.000 χ^2/NDF :33032602.4/14

Right Out: 0.928 $\pm$ 0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.763 $\pm$ 0.000 χ^2/NDF :27097787.7/12

Left: 0.763 $\pm$ 0.000 χ^2/NDF : 60158608.5/27

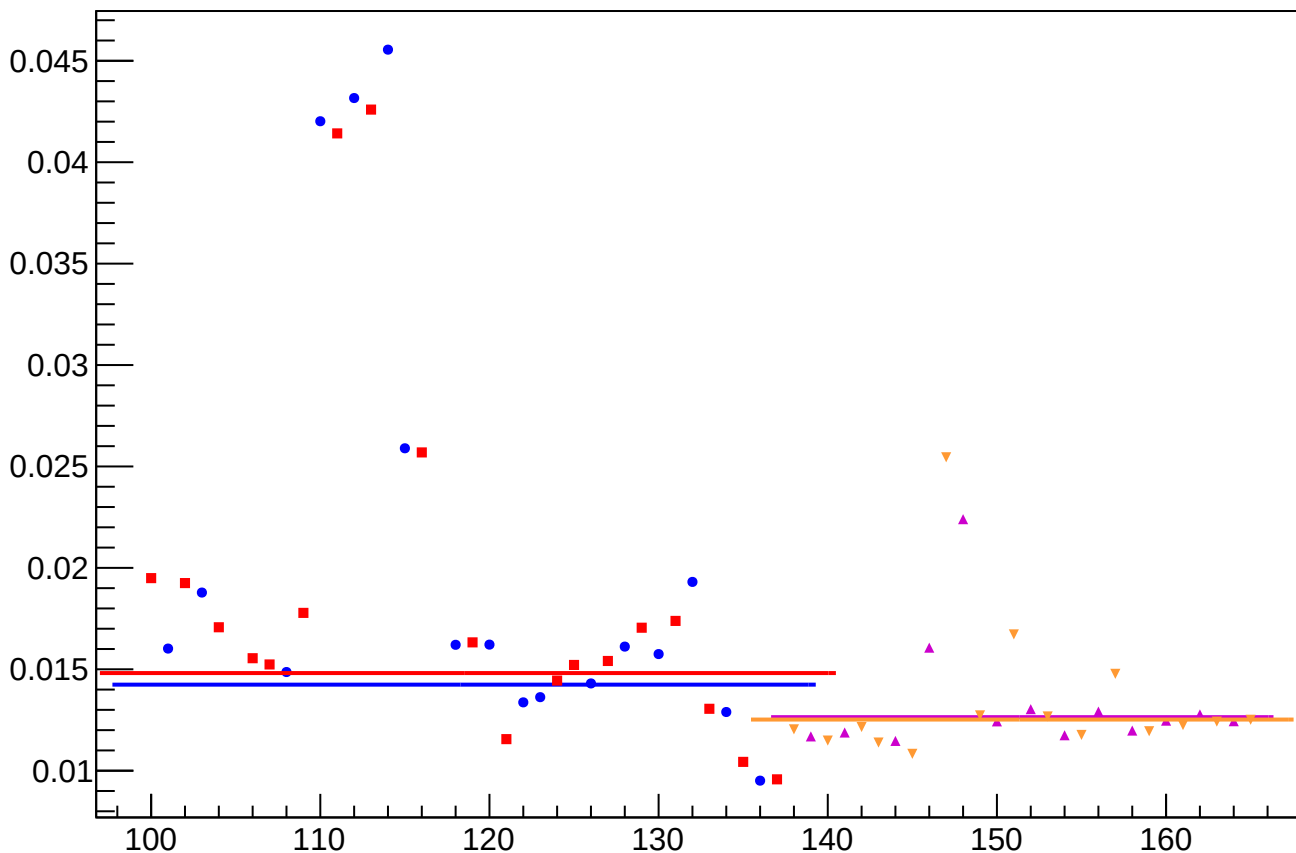
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.803 $\pm$ 0.000 χ^2/NDF :2759527338.8/29

Out: 0.810 $\pm$ 0.000 χ^2/NDF :3002321414.9/33

All: 0.807 $\pm$ 0.000 χ^2/NDF : 5764069803.2/63

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.013 $\pm$ 0.000 χ^2/NDF : 583859.7/14

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 1274172.7/18

Left In: 0.013 $\pm$ 0.000 χ^2/NDF : 405331.6/12

Left: 0.013 $\pm$ 0.000 χ^2/NDF : 990089.2/27

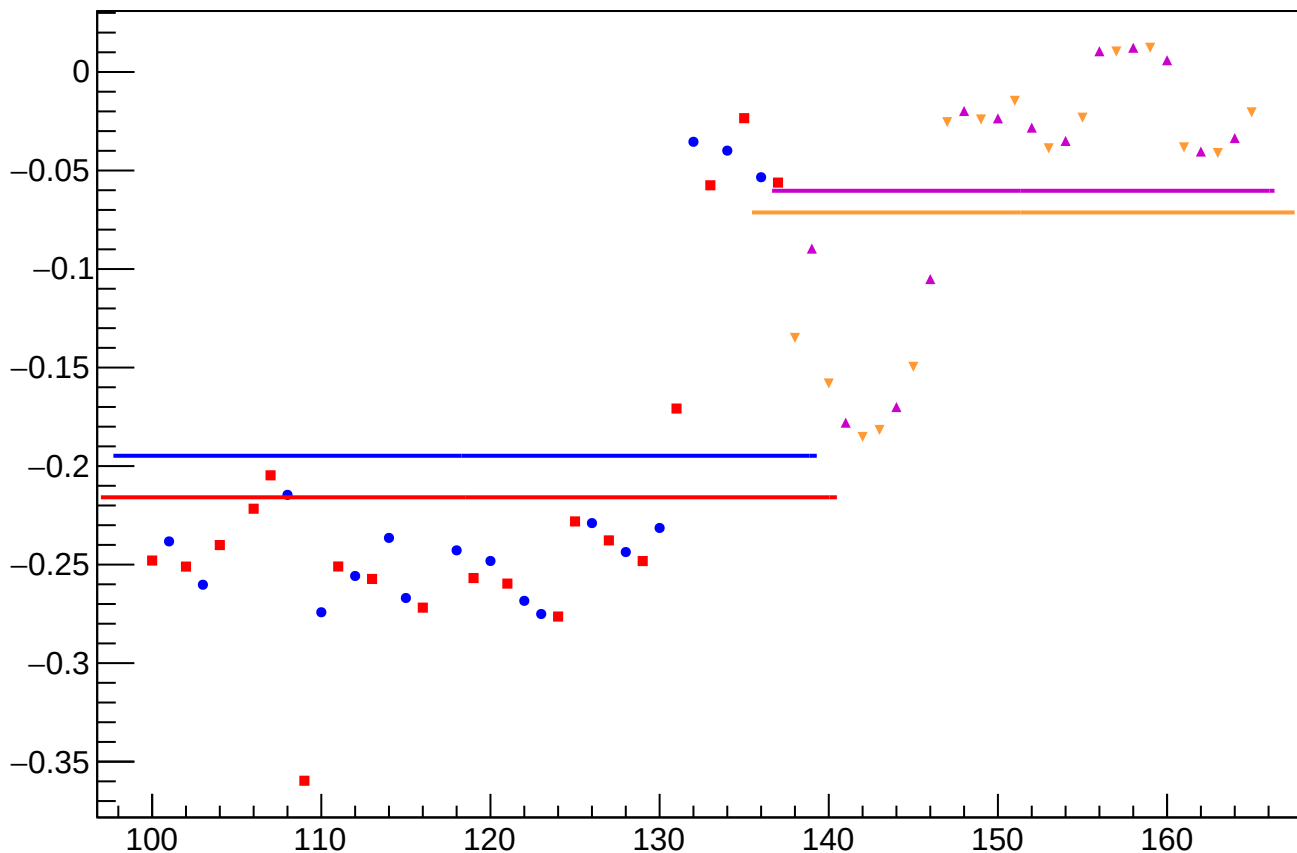
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 2698841.0/35

In: 0.013 $\pm$ 0.000 χ^2/NDF : 1919378.4/29

Out: 0.013 $\pm$ 0.000 χ^2/NDF : 2061466.8/33

All: 0.013 $\pm$ 0.000 χ^2/NDF : 3981051.5/63

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.071+/-0.000 χ^2/NDF : 112776916.2/14

Right Out: -0.216+/-0.000 χ^2/NDF : 111983904.6/18

Left In: -0.060+/-0.000 χ^2/NDF : 95253302.7/12

Left: -0.066+/-0.000 χ^2/NDF : 209366412.8/27

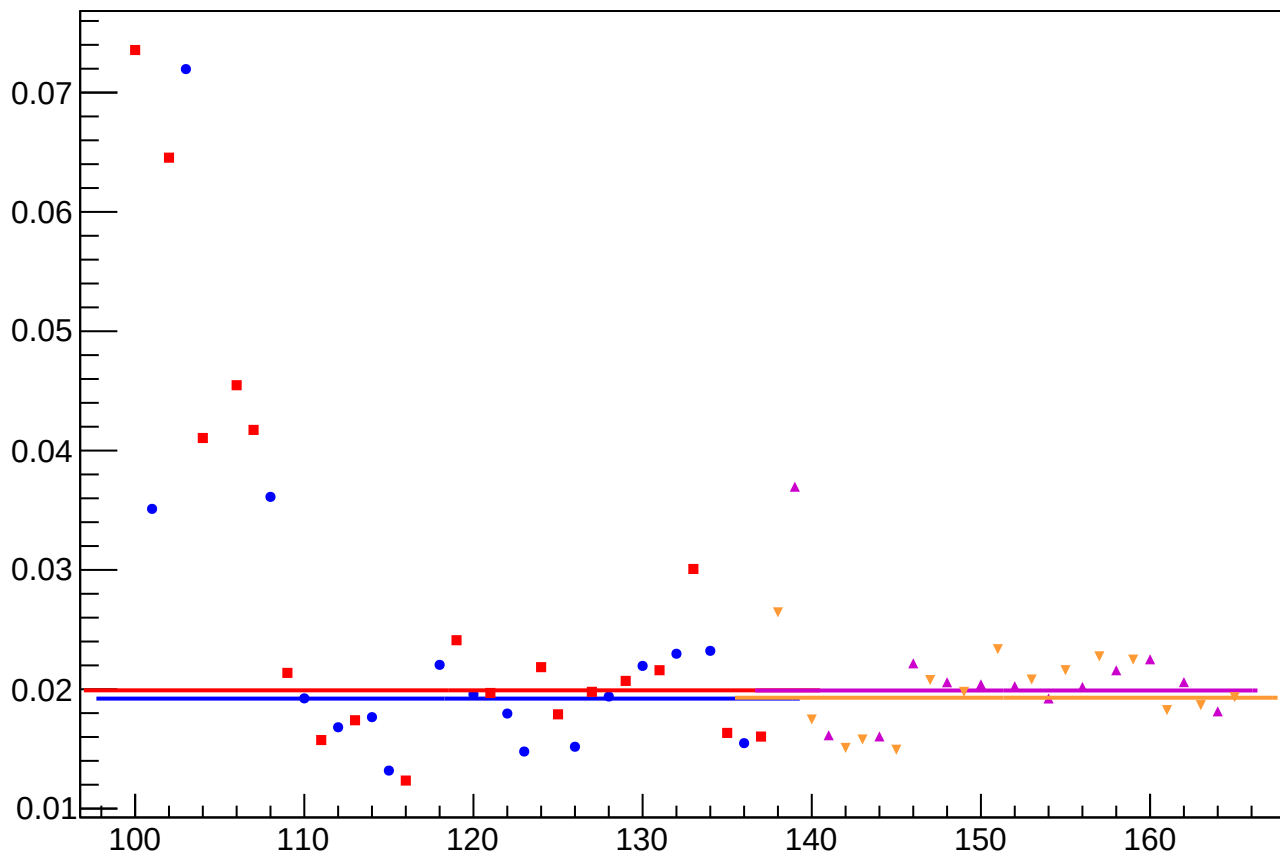
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.113+/-0.000 χ^2/NDF : 352572135.1/29

Out: -0.123+/-0.000 χ^2/NDF : 400507849.4/33

All: -0.118+/-0.000 χ^2/NDF : 754687684.2/63

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 1177085.4/16

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:419411.8/14

Right Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 1446950.0/18

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:480105.0/12

Left: 0.020 $\pm$ 0.000 χ^2 /NDF: 907661.2/27

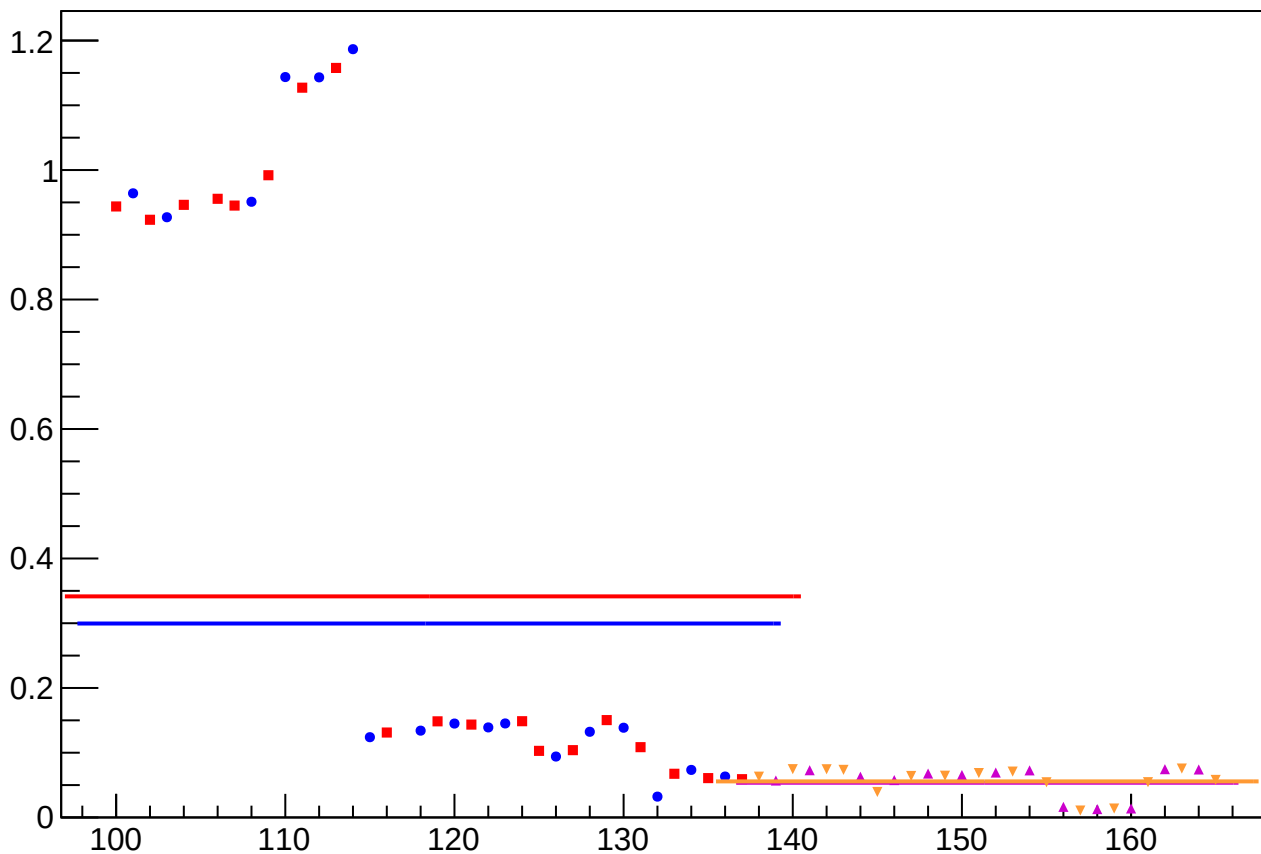
Right: 0.020 $\pm$ 0.000 χ^2 /NDF: 2630434.7/35

In: 0.020 $\pm$ 0.000 χ^2 /NDF:1664785.1/29

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:1872833.8/33

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 3538106.1/63

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.056+/-0.000 χ^2/NDF : 37076884.9/14

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.054+/-0.000 χ^2/NDF : 47230177.7/12

Left: 0.055+/-0.000 χ^2/NDF : 84494719.9/27

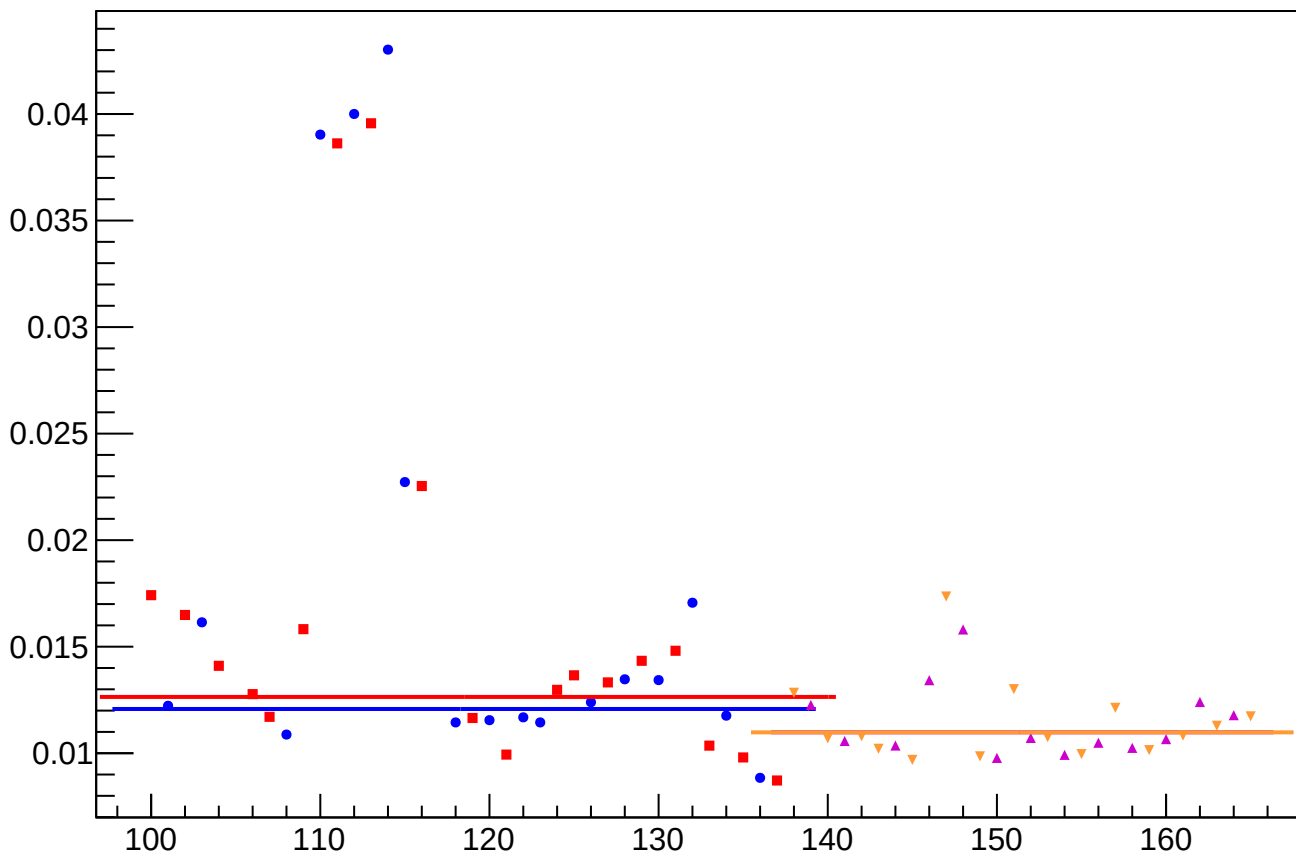
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.133+/-0.000 χ^2/NDF : 6802384771.7/29

Out: 0.141+/-0.000 χ^2/NDF : 7601699879.1/33

All: 0.137+/-0.000 χ^2/NDF : 14407563335.3/66

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1282097.7/16

Left Out: 0.011+/-0.000 χ^2/NDF : 369486.6/14

Right Out: 0.013+/-0.000 χ^2/NDF : 1237706.0/18

Left In: 0.011+/-0.000 χ^2/NDF : 298799.7/12

Left: 0.011+/-0.000 χ^2/NDF : 668287.3/27

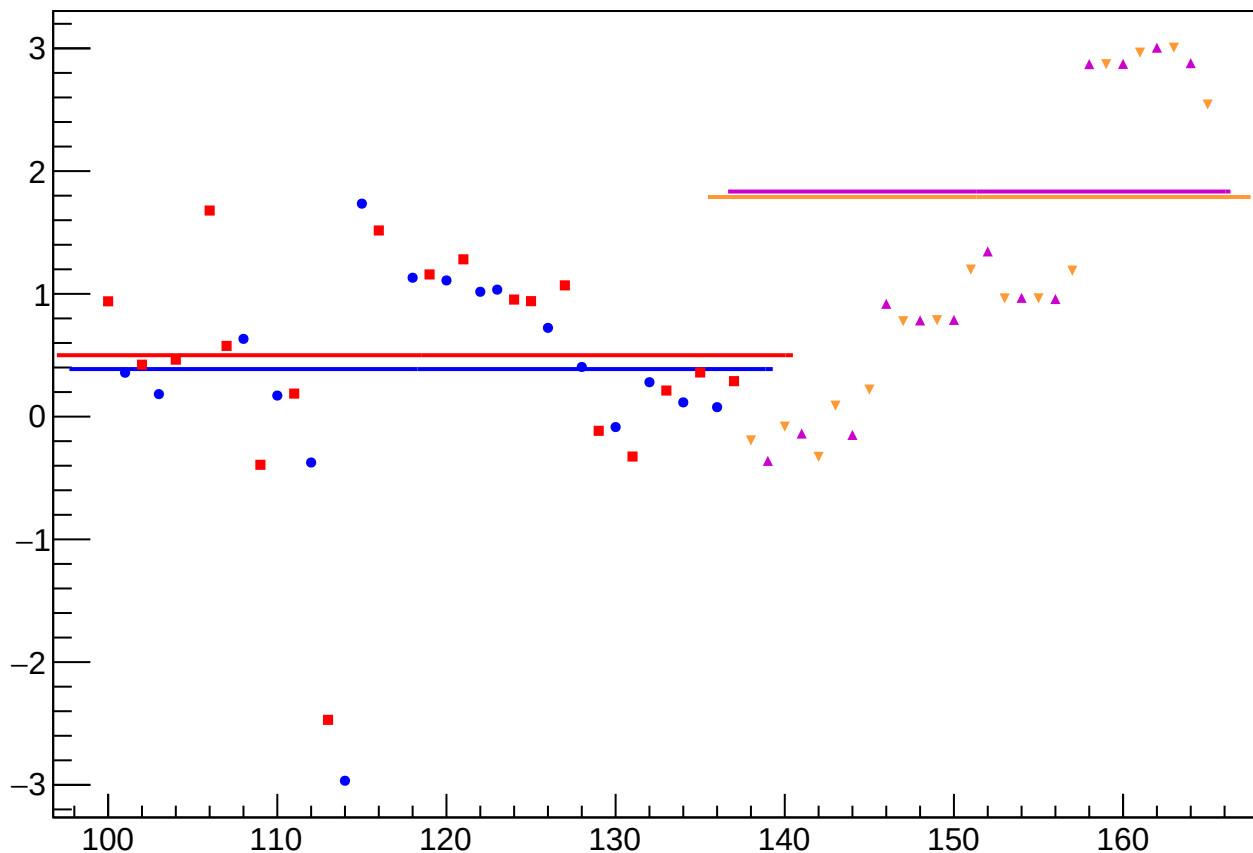
Right: 0.012+/-0.000 χ^2/NDF : 2531931.6/35

In: 0.011+/-0.000 χ^2/NDF : 1643715.5/29

Out: 0.011+/-0.000 χ^2/NDF : 1750306.9/33

All: 0.011+/-0.000 χ^2/NDF : 3396333.7/63

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 ± 0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.789 ± 0.000 χ^2/NDF : 25012286539.8/14

Right Out: 0.500 ± 0.000 χ^2/NDF : 983360928.1/18

Left In: 1.834 ± 0.000 χ^2/NDF : 26386383058.4/12

Left: 1.812 ± 0.000 χ^2/NDF : 51424919241.9/27

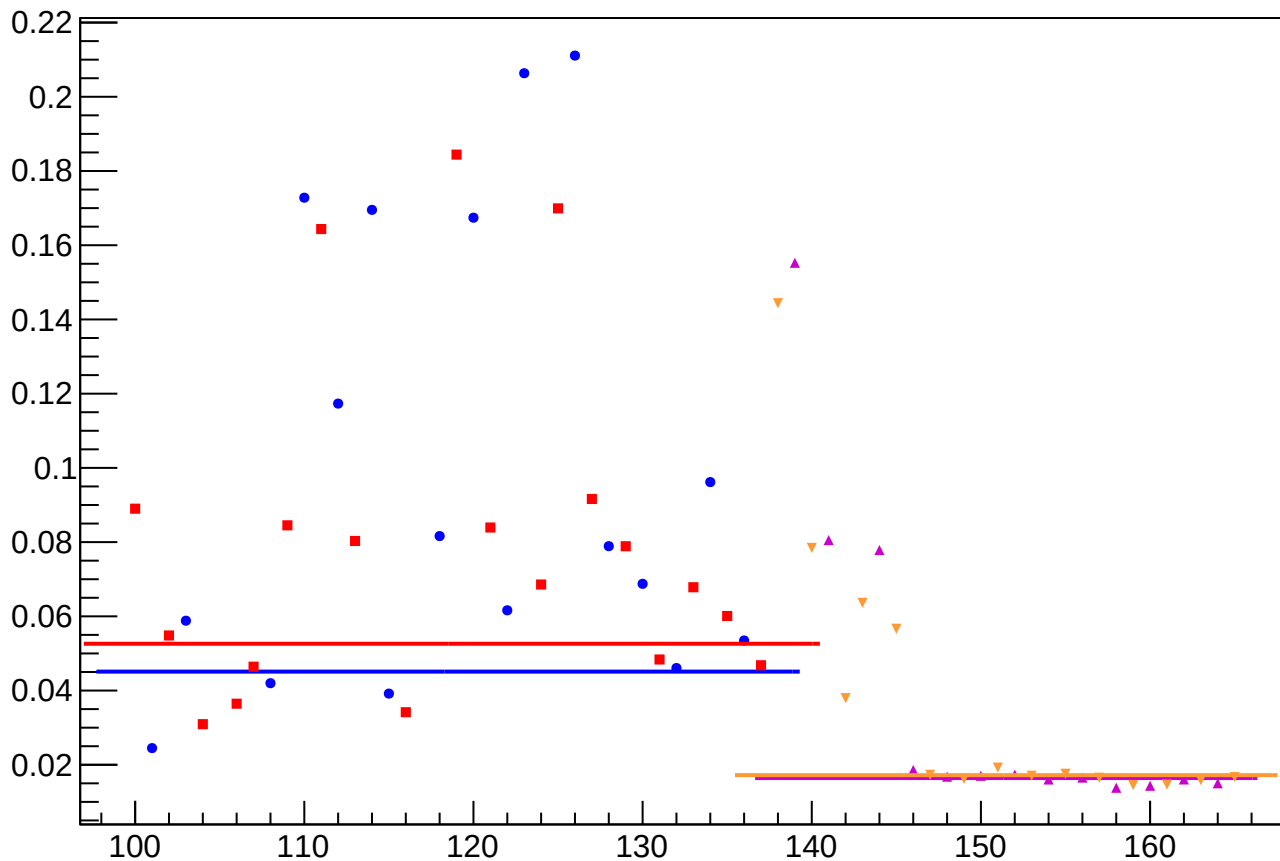
Right: 0.439 ± 0.000 χ^2/NDF : 1241544973.3/35

In: 1.745 ± 0.000 χ^2/NDF : 30069105682.4/29

Out: 1.718 ± 0.000 χ^2/NDF : 28338783639.3/33

All: 1.732 ± 0.000 χ^2/NDF : 58418091786.8/66

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2729550.5/14

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.016+/-0.000 χ^2/NDF : 2335066.7/12

Left: 0.017+/-0.000 χ^2/NDF : 5080655.7/27

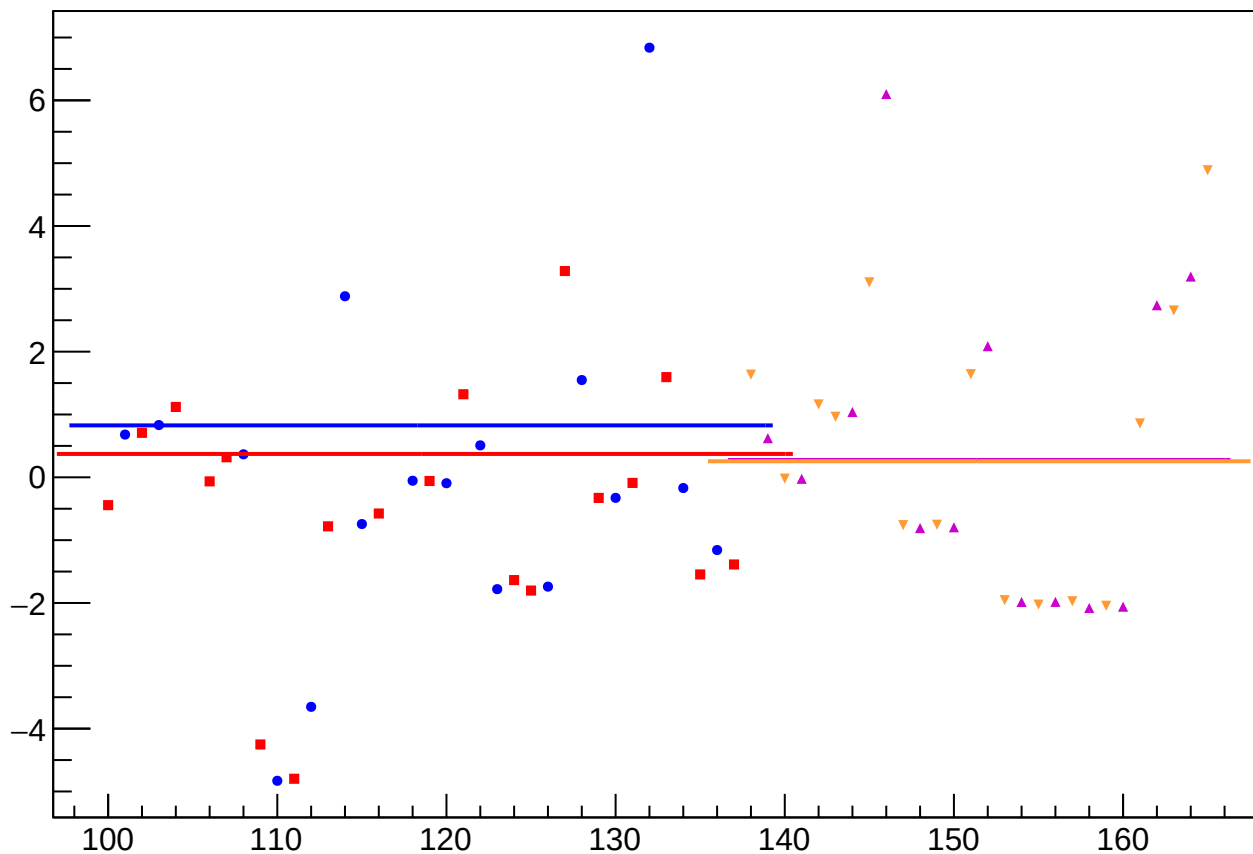
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.018+/-0.000 χ^2/NDF : 7882117.1/29

Out: 0.019+/-0.000 χ^2/NDF : 8457652.2/33

All: 0.019+/-0.000 χ^2/NDF : 16366100.4/63

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.266+/-0.000

χ^2/NDF : 530947257768.0/27

Left Out: 0.256+/-0.000

χ^2/NDF : 230616525850.3/14

Right: 0.613+/-0.000

χ^2/NDF : 16291516809.6/35

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

In: 0.324+/-0.000

χ^2/NDF : 312347901148.0/29

Left In: 0.276+/-0.000

χ^2/NDF : 300322300398.6/12

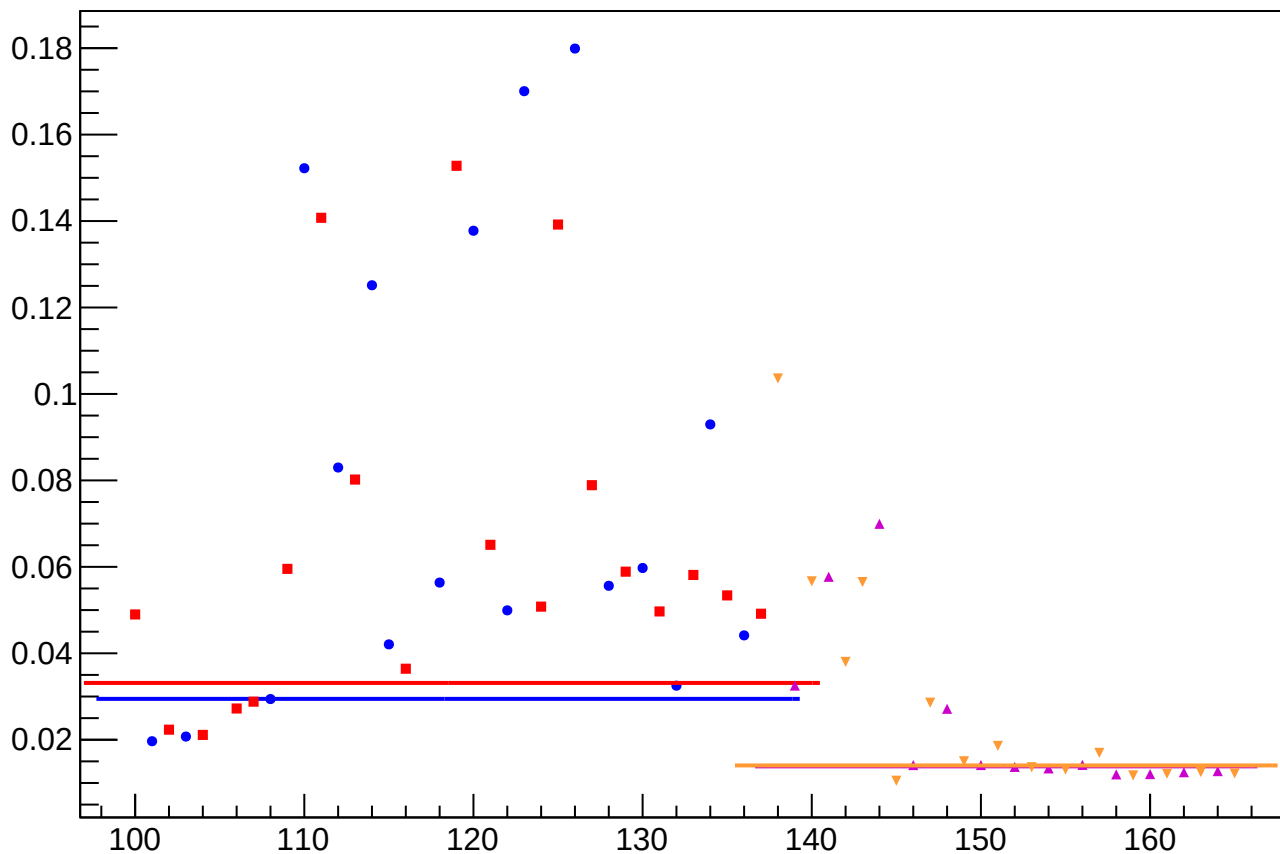
Out: 0.265+/-0.000

χ^2/NDF : 235633278027.9/33

All: 0.295+/-0.000

χ^2/NDF : 548059141722.5

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.014+/-0.000 χ^2/NDF :2813238.3/14

Right Out: 0.033+/-0.000 χ^2/NDF : 3096820.9/18

Left In: 0.014+/-0.000 χ^2/NDF :1844037.6/12

Left: 0.014+/-0.000 χ^2/NDF : 4659117.7/27

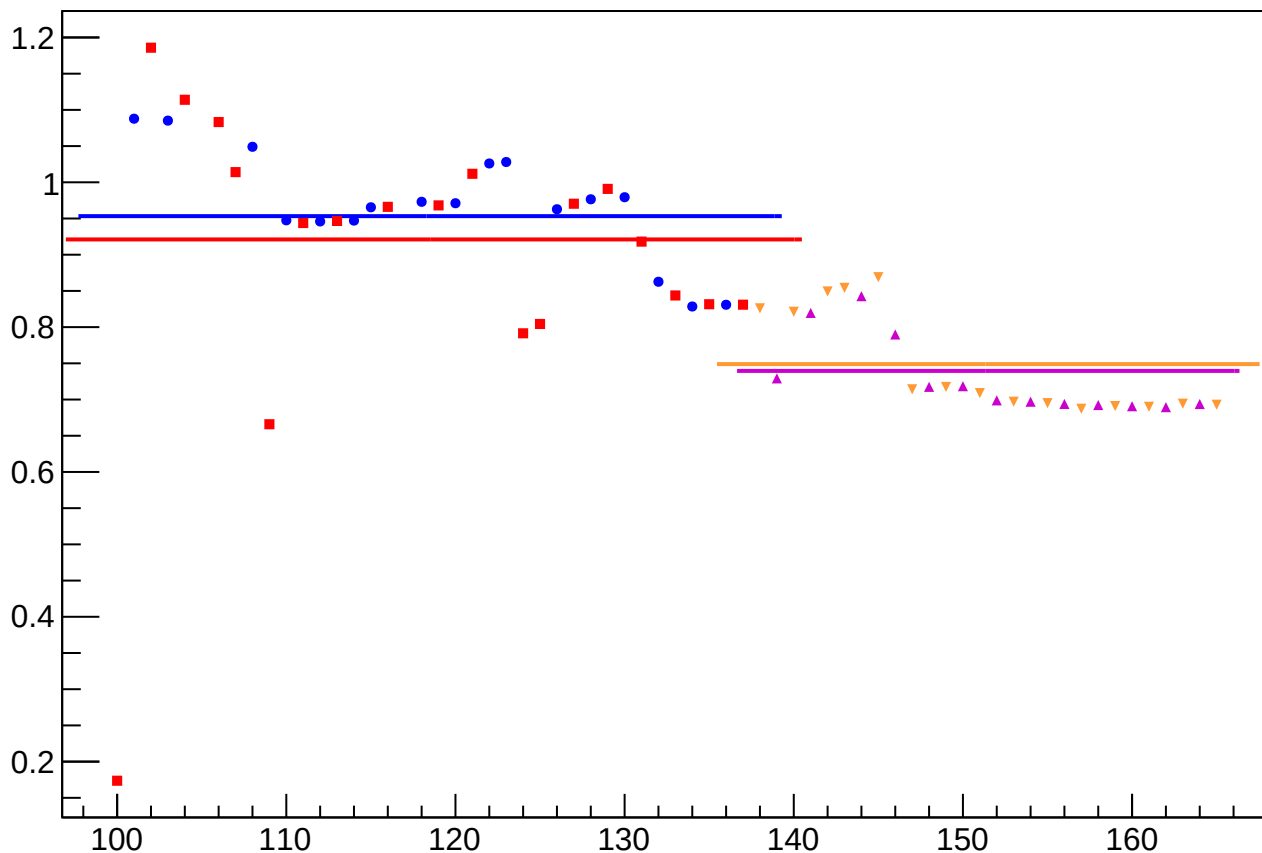
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.015+/-0.000 χ^2/NDF :6649508.6/29

Out: 0.016+/-0.000 χ^2/NDF :8258357.0/33

All: 0.015+/-0.000 χ^2/NDF : 14913678.0/63

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.749+/-0.000 χ^2/NDF : 258053362.7/14

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.740+/-0.000 χ^2/NDF : 154824898.7/12

Left: 0.745+/-0.000 χ^2/NDF : 415136235.3/27

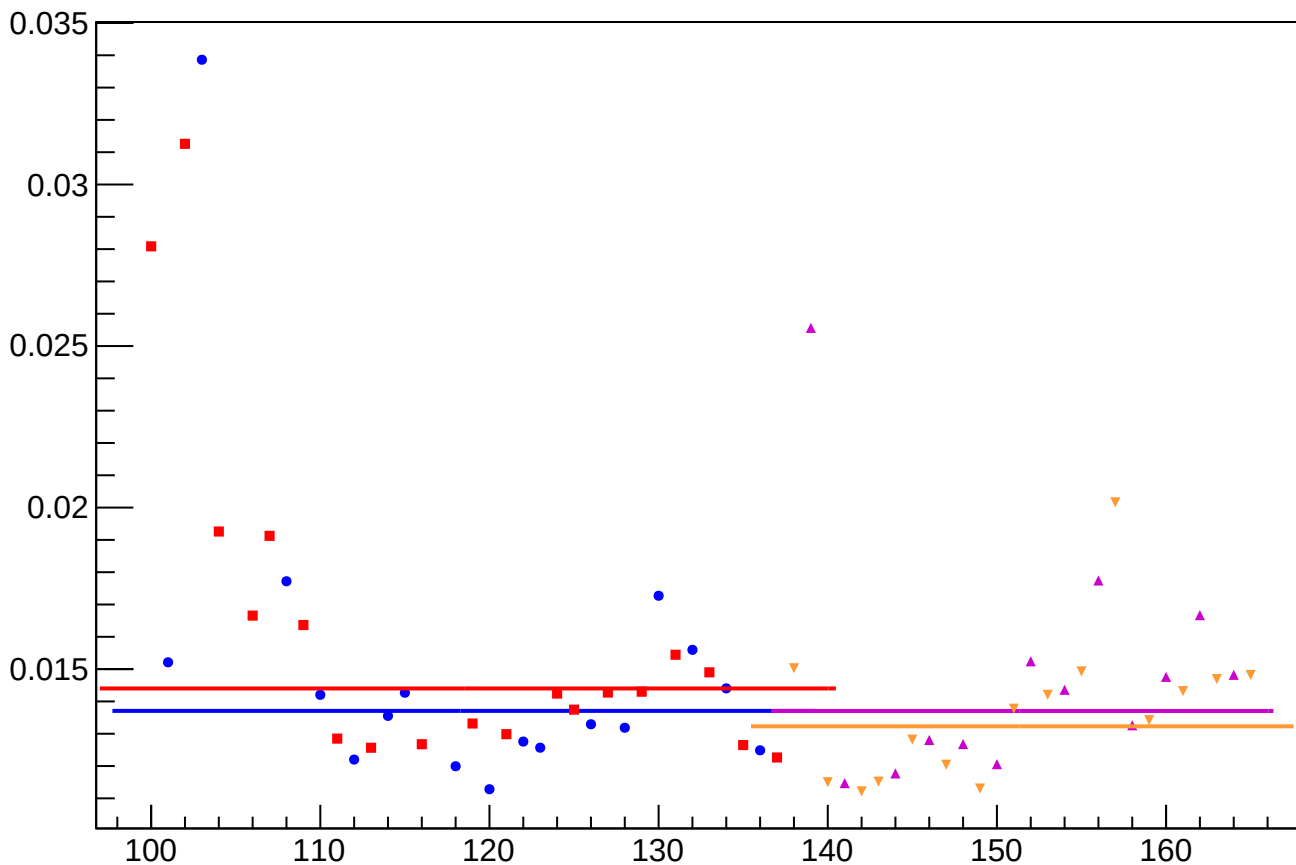
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.823+/-0.000 χ^2/NDF : 1190609526.9/29

Out: 0.809+/-0.000 χ^2/NDF : 1197982443.1/33

All: 0.816+/-0.000 χ^2/NDF : 2396652472.5/63

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013+/-0.000 χ^2/NDF : 354349.2/14

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF : 572692.4/12

Left: 0.013+/-0.000 χ^2/NDF : 938542.0/27

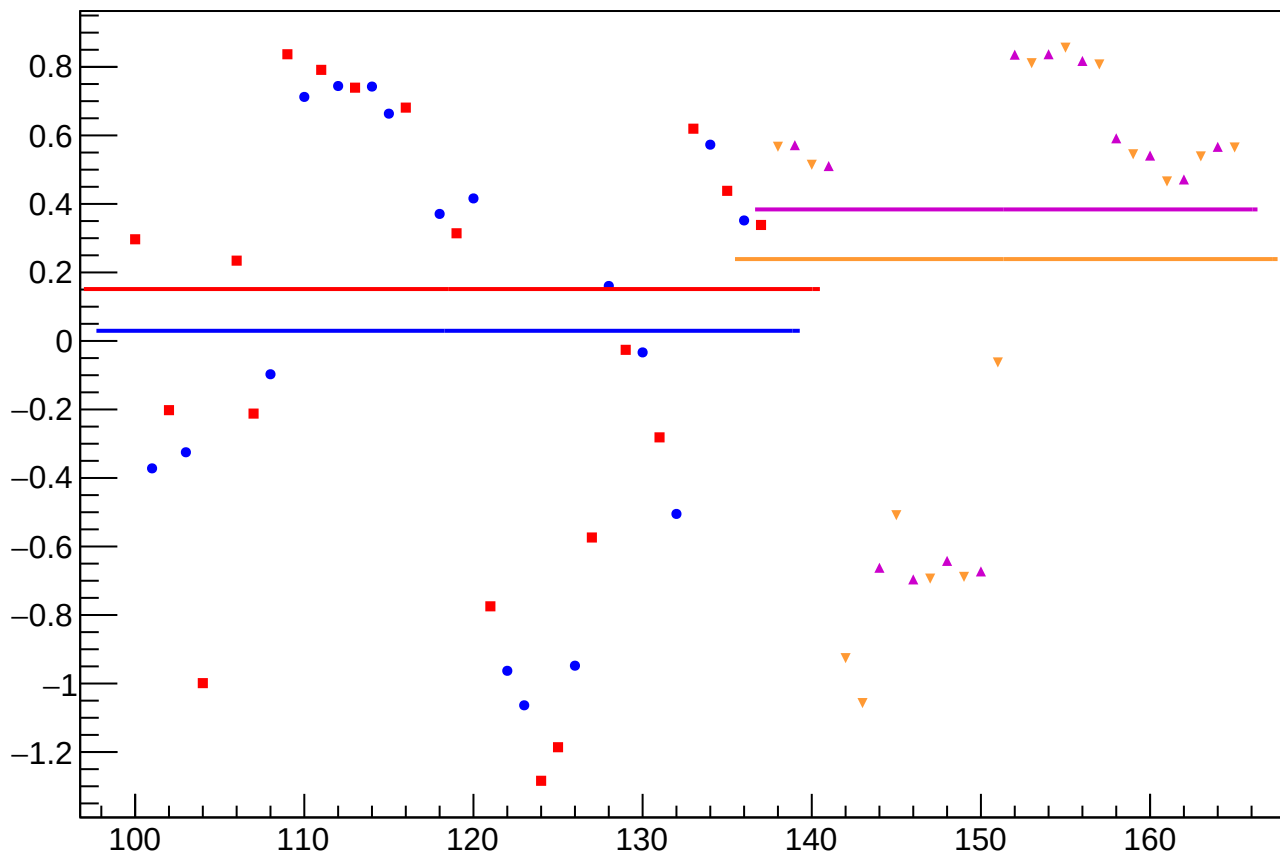
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1119010.4/29

Out: 0.014+/-0.000 χ^2/NDF : 908535.3/33

All: 0.014+/-0.000 χ^2/NDF : 2027897.1/63

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 6294824795.0/16

Left: 0.309+/-0.000

χ^2/NDF : 41130702352.9/27

Left Out: 0.239+/-0.000

χ^2/NDF : 24266911057.7/14

Right: 0.096+/-0.000

χ^2/NDF : 19149304558.7/35

Right Out: 0.152+/-0.000

χ^2/NDF : 12661812059.7/18

In: 0.289+/-0.000

χ^2/NDF : 24635439019.9/29

Out: 0.213+/-0.000

χ^2/NDF : 37083601312.6/33

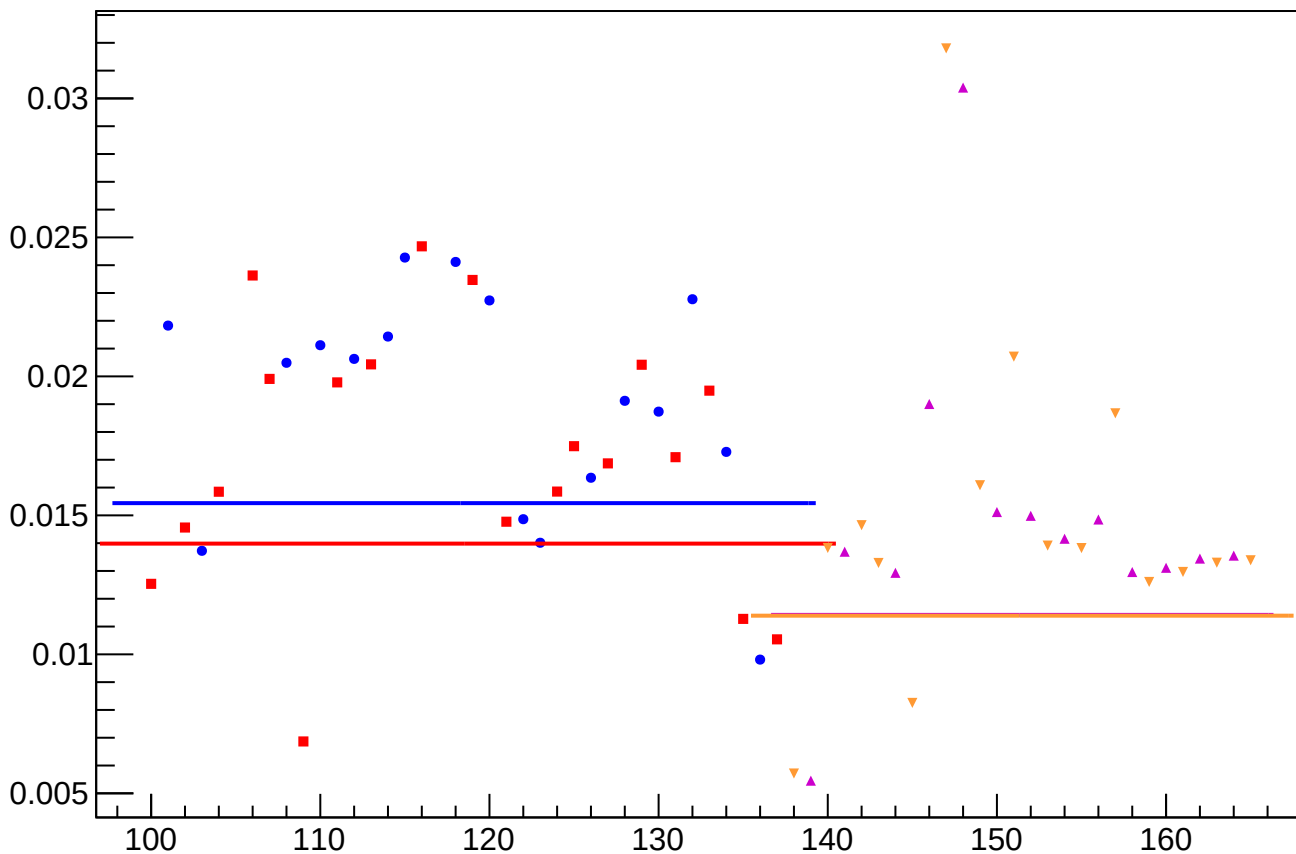
Left In: 0.384+/-0.000

χ^2/NDF : 16164192829.6/12

All: 0.249+/-0.000

χ^2/NDF : 61981346143.0/6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.011+/-0.000 χ^2/NDF : 2900951.2/14

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.011+/-0.000 χ^2/NDF : 2836215.5/12

Left: 0.011+/-0.000 χ^2/NDF : 5737220.2/27

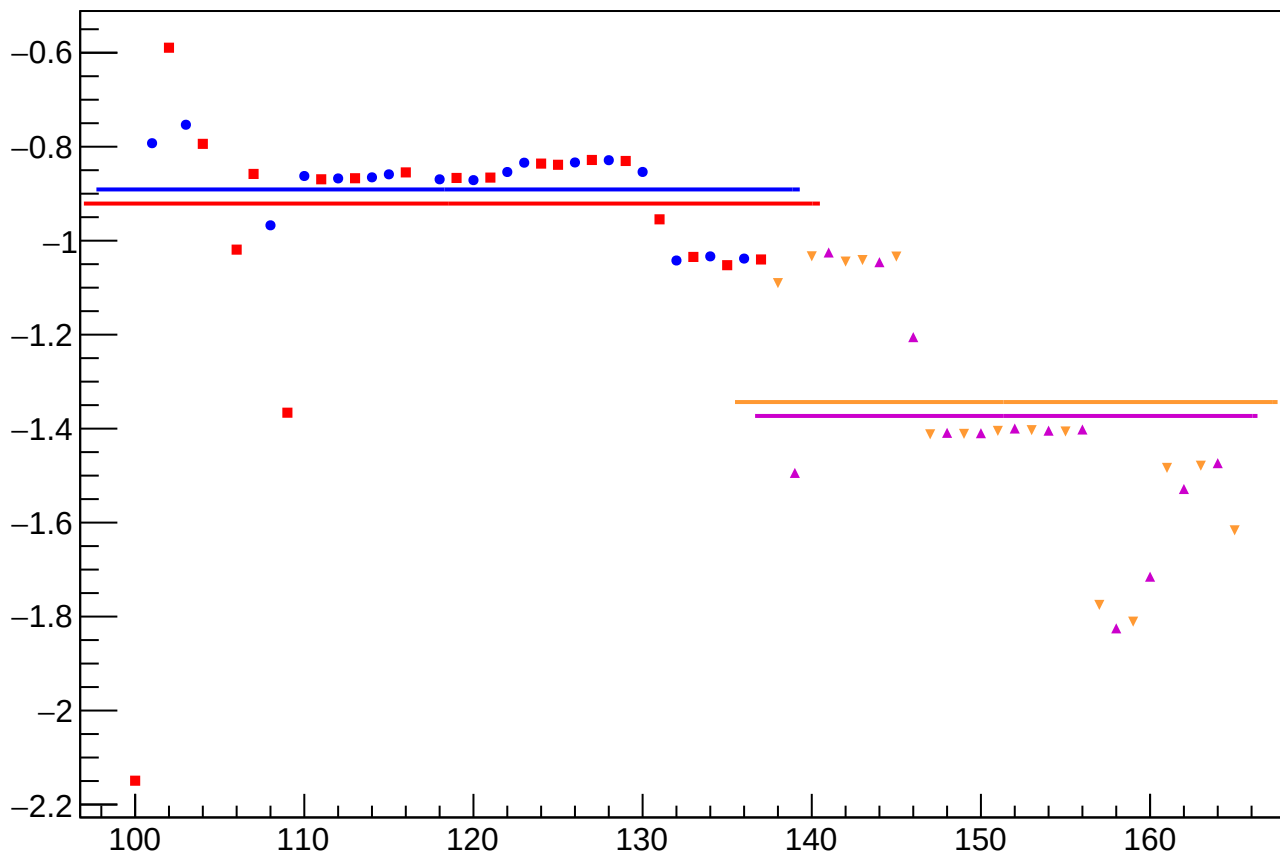
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4558632.6/29

Out: 0.012+/-0.000 χ^2/NDF : 4733715.8/33

All: 0.012+/-0.000 χ^2/NDF : 9303670.8/63

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 39578323.2/16$

Left Out: -1.343 ± 0.000 $\chi^2/\text{NDF}: 489115225.1/14$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 131183059.9/18$

Left In: -1.373 ± 0.000 $\chi^2/\text{NDF}: 414780217.2/12$

Left: -1.357 ± 0.000 $\chi^2/\text{NDF}: 907289893.1/27$

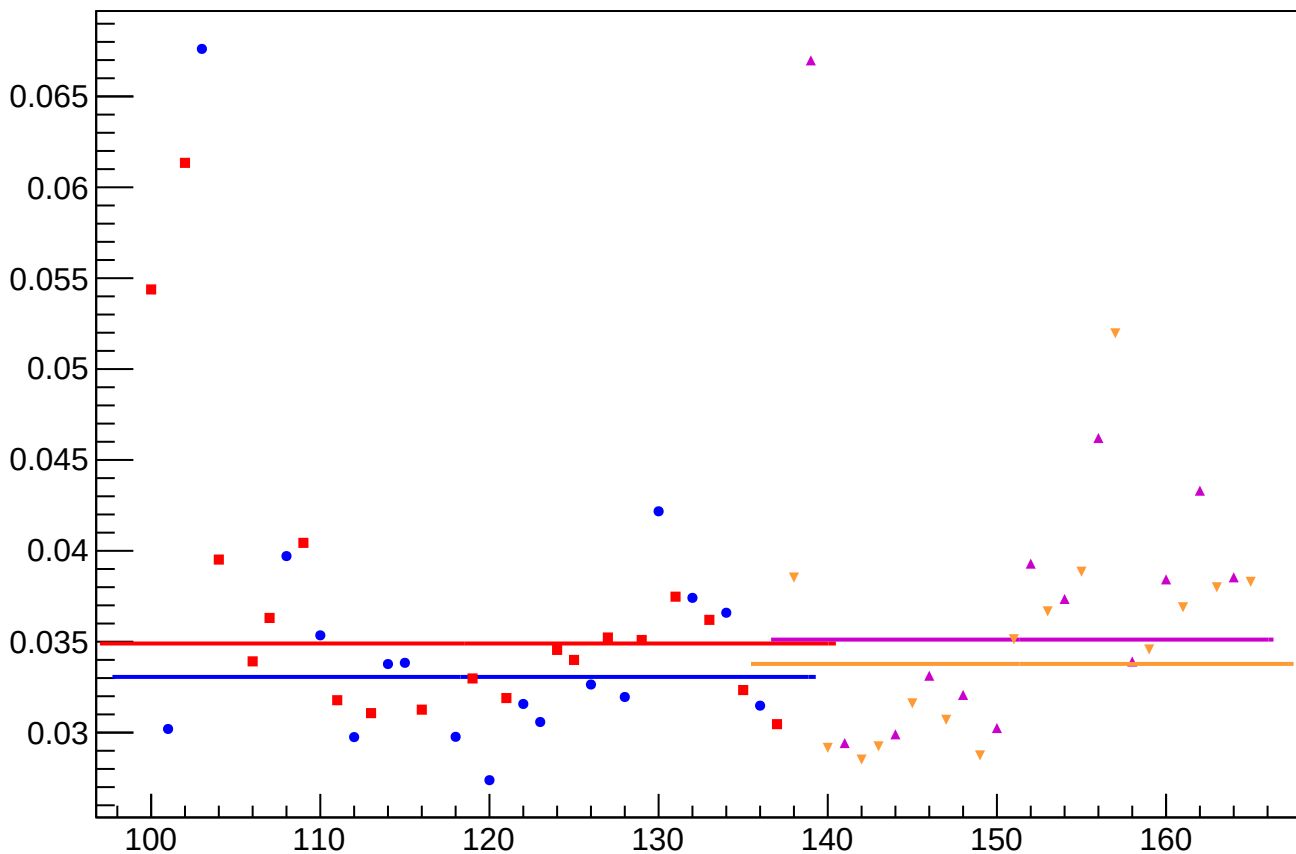
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173111604.1/35$

In: -1.168 ± 0.000 $\chi^2/\text{NDF}: 1172338004.1/29$

Out: -1.183 ± 0.000 $\chi^2/\text{NDF}: 1180597240.6/33$

All: -1.176 ± 0.000 $\chi^2/\text{NDF}: 2354441279.8/6$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2/NDF : 409286.7/16

Left Out: 0.034 $\pm$ 0.000 χ^2/NDF : 387578.2/14

Right Out: 0.035 $\pm$ 0.000 χ^2/NDF : 274270.8/18

Left In: 0.035 $\pm$ 0.000 χ^2/NDF : 626614.2/12

Left: 0.034 $\pm$ 0.000 χ^2/NDF : 1028051.1/27

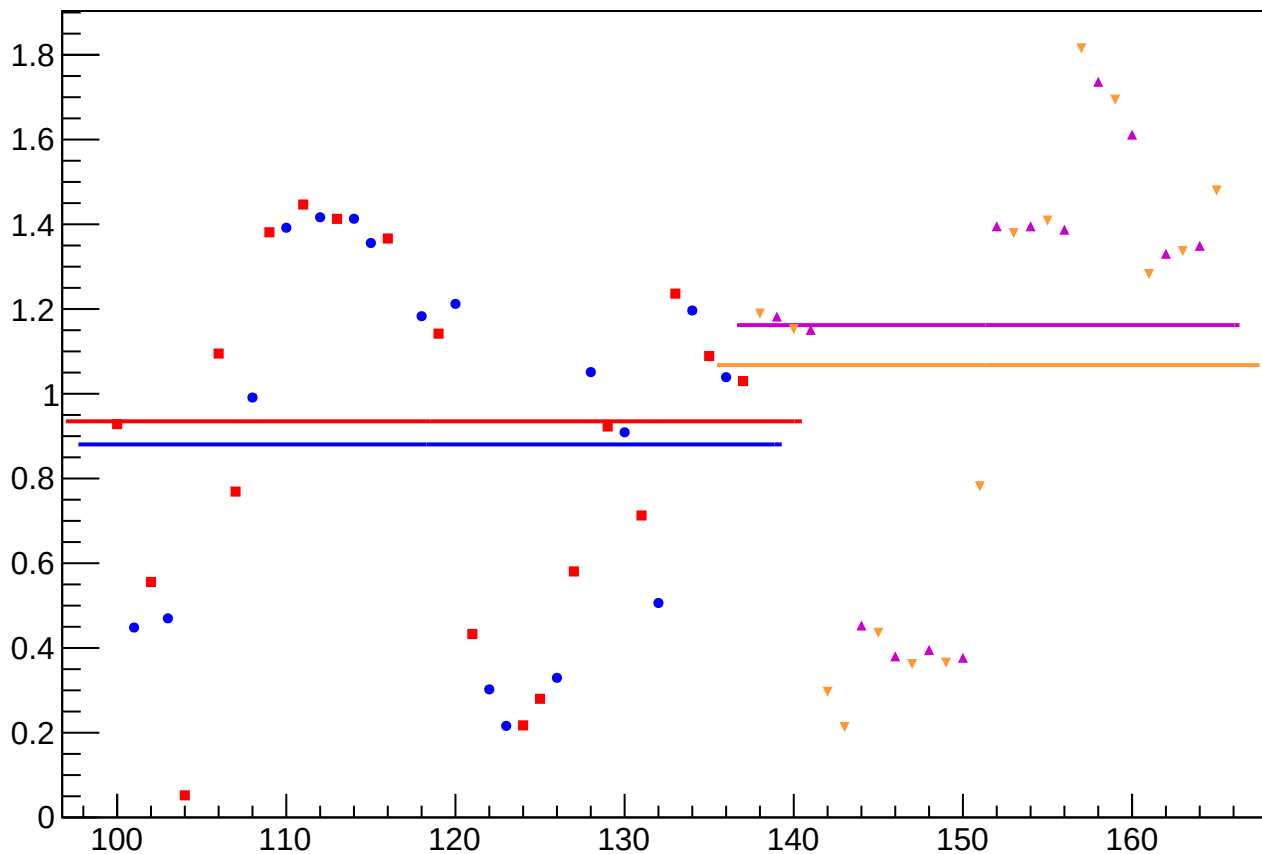
Right: 0.034 $\pm$ 0.000 χ^2/NDF : 701180.7/35

In: 0.034 $\pm$ 0.000 χ^2/NDF : 1061949.1/29

Out: 0.034 $\pm$ 0.000 χ^2/NDF : 669779.2/33

All: 0.034 $\pm$ 0.000 χ^2/NDF : 1731748.8/63

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880+/-0.000

χ^2/NDF : 6400108121.4/16

Left: 1.113+/-0.000

χ^2/NDF : 53237752153.7/27

Left Out: 1.068+/-0.000

χ^2/NDF : 30686810479.3/14

Right: 0.909+/-0.000

χ^2/NDF : 16315238009.2/35

Right Out: 0.935+/-0.000

χ^2/NDF : 9833525935.6/18

In: 1.077+/-0.000

χ^2/NDF : 31309539780.0/29

Out: 1.028+/-0.000

χ^2/NDF : 41221834485.7/33

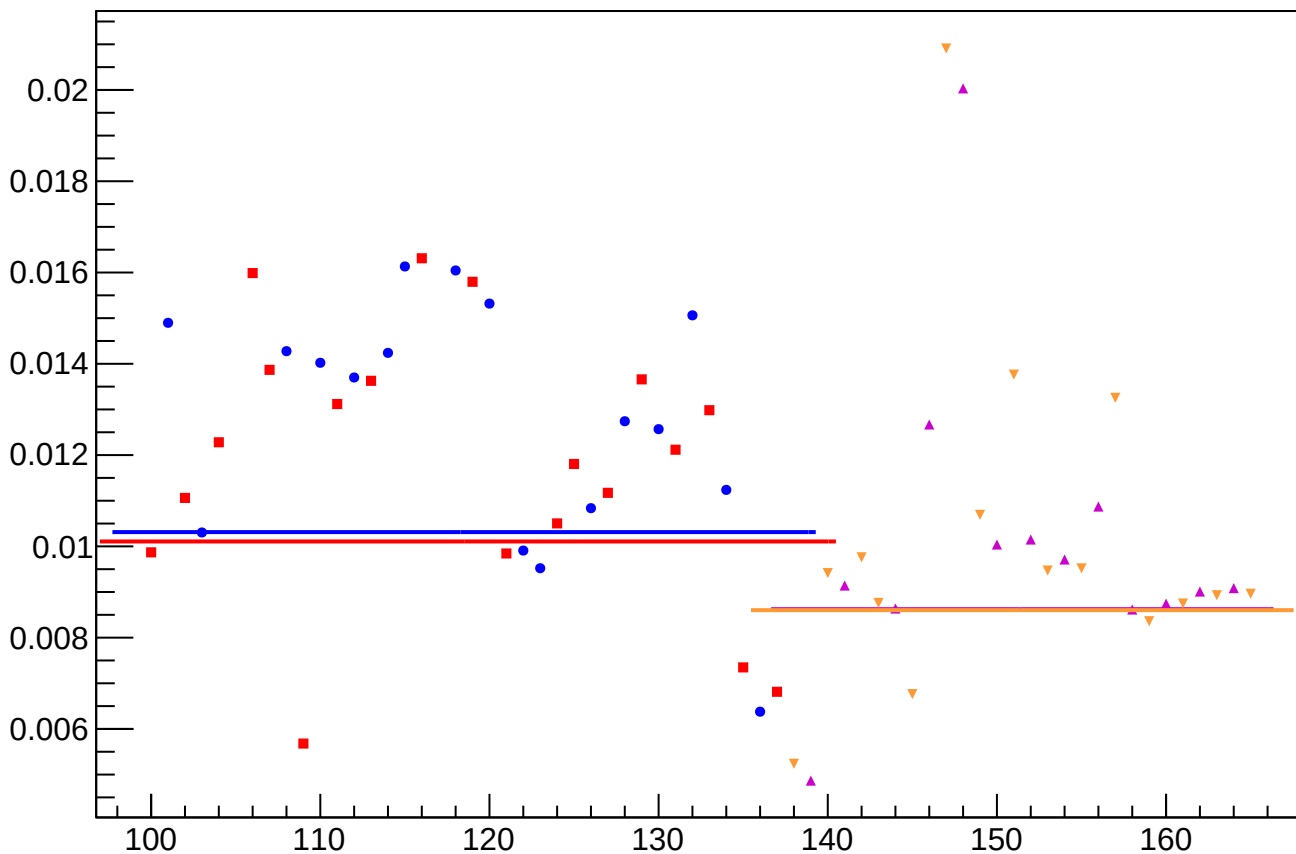
Left In: 1.162+/-0.000

χ^2/NDF : 21986640716.7/12

All: 1.051+/-0.000

χ^2/NDF : 72756056395.4/6

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 1657610.0/14

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 1560378.8/12

Left: 0.009+/-0.000 χ^2/NDF : 3218048.3/27

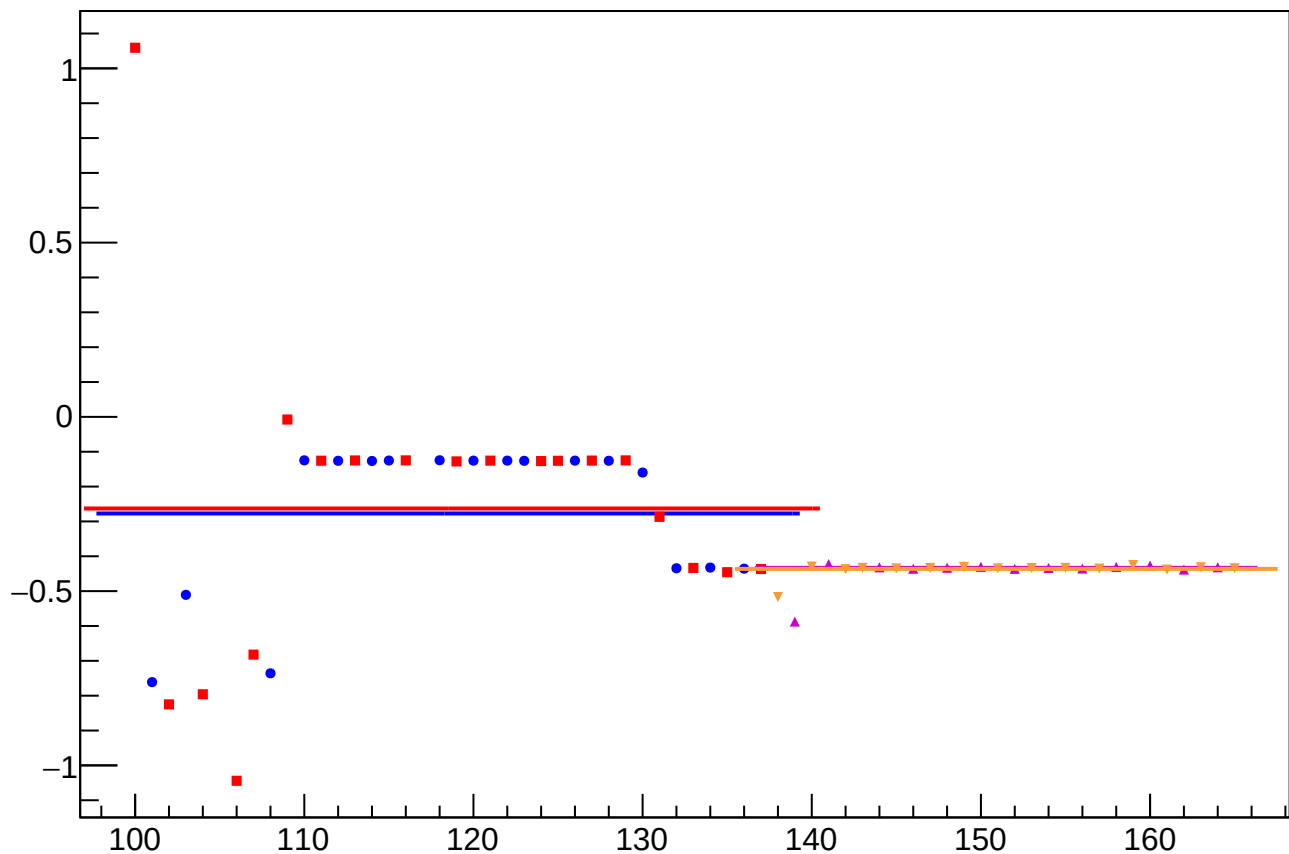
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF : 3001640.2/29

Out: 0.009+/-0.000 χ^2/NDF : 3016547.7/33

All: 0.009+/-0.000 χ^2/NDF : 6019192.3/63

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277 ± 0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.436 ± 0.000 χ^2/NDF : 25615265.4/14

Right Out: -0.263 ± 0.000 χ^2/NDF : 1008398102.0/18

Left In: -0.433 ± 0.000 χ^2/NDF : 23368654.2/12

Left: -0.435 ± 0.000 χ^2/NDF : 49365553.1/27

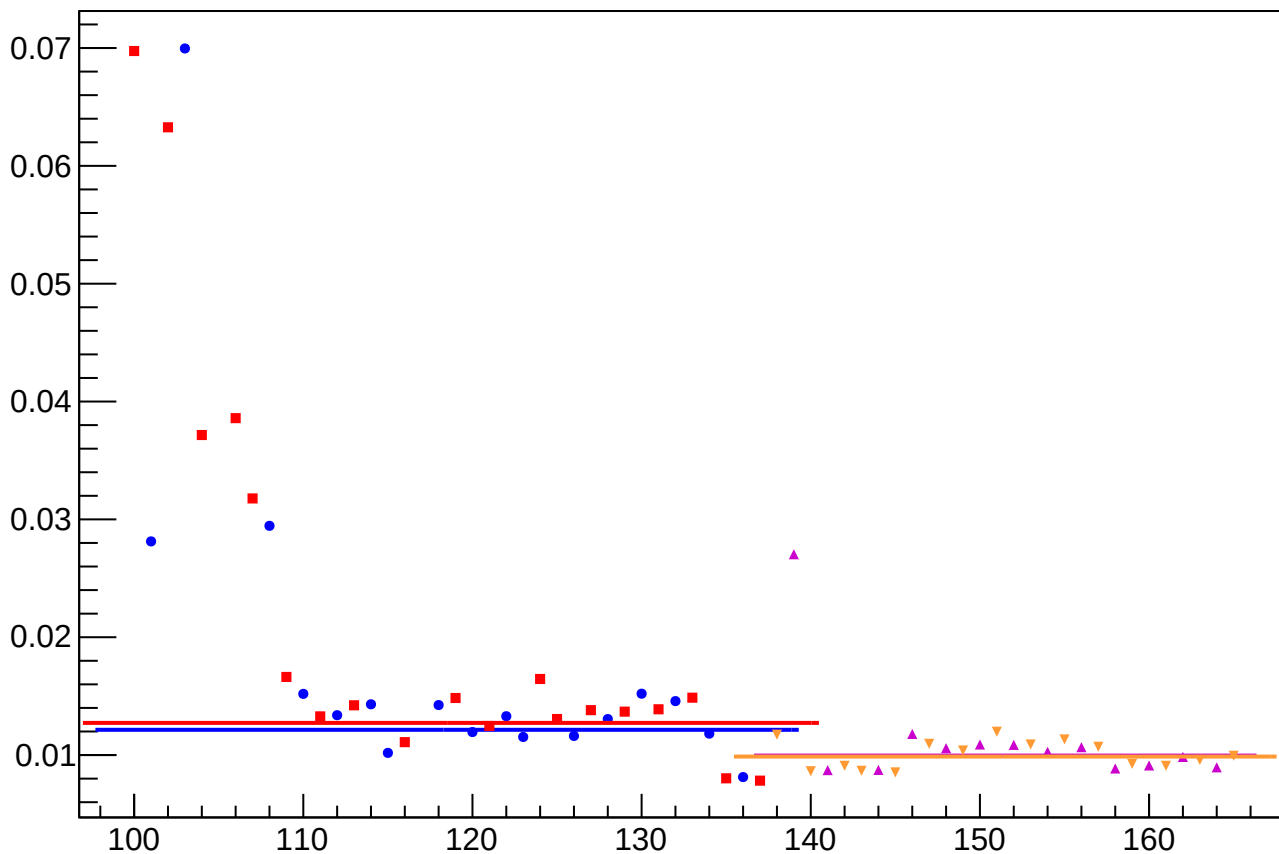
Right: -0.270 ± 0.000 χ^2/NDF : 1952121842.2/35

In: -0.391 ± 0.000 χ^2/NDF : 1530465308.2/29

Out: -0.394 ± 0.000 χ^2/NDF : 1715150161.6/33

All: -0.393 ± 0.000 χ^2/NDF : 3246400528.7/6

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1727494.7/16

Left Out: 0.010+/-0.000 χ^2/NDF : 224092.3/14

Right Out: 0.013+/-0.000 χ^2/NDF : 1969165.0/18

Left In: 0.010+/-0.000 χ^2/NDF : 693885.3/12

Left: 0.010+/-0.000 χ^2/NDF : 918593.4/27

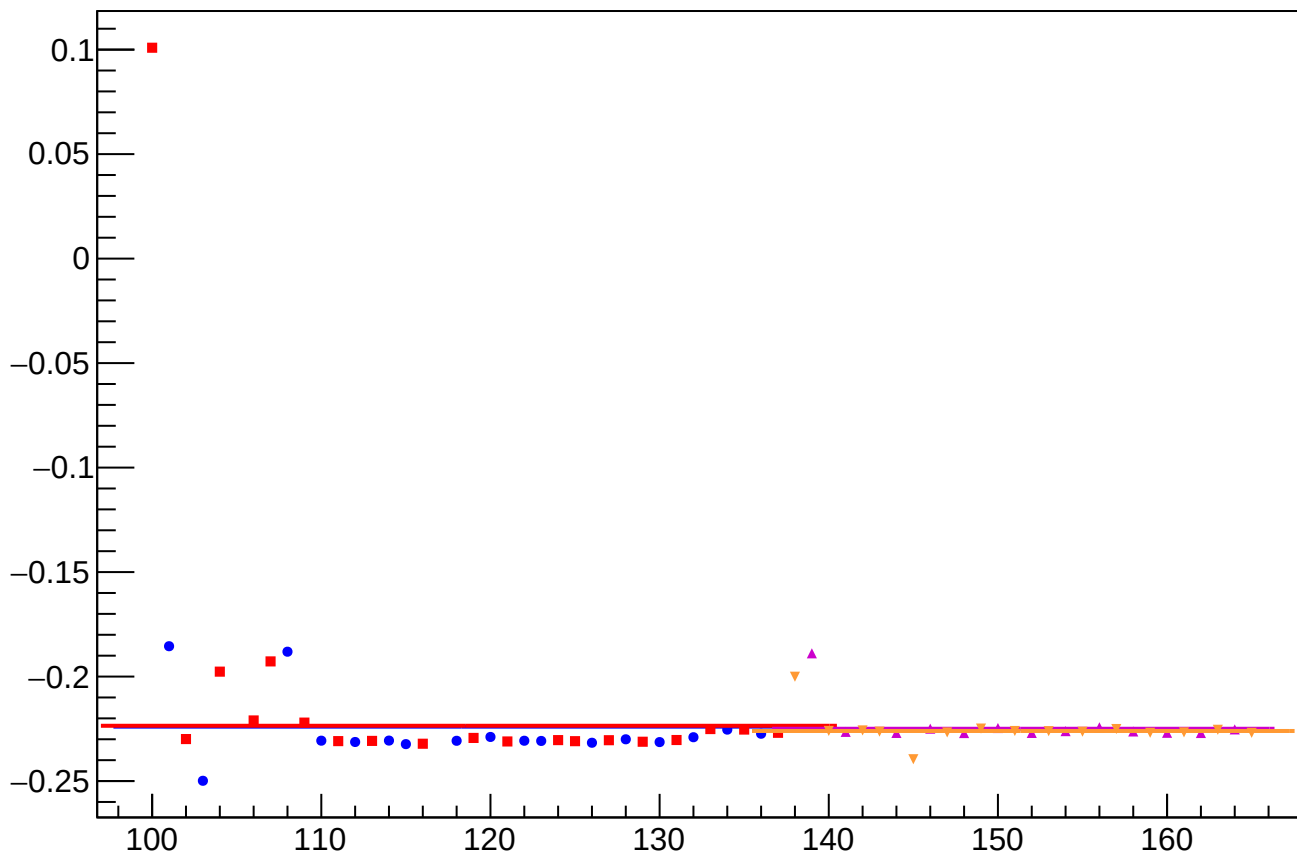
Right: 0.012+/-0.000 χ^2/NDF : 3707277.9/35

In: 0.011+/-0.000 χ^2/NDF : 2643923.4/29

Out: 0.011+/-0.000 χ^2/NDF : 2563373.4/33

All: 0.011+/-0.000 χ^2/NDF : 5207310.5/63

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224 ± 0.000 χ^2/NDF : 74704721.6/16

Left Out: -0.226 ± 0.000 χ^2/NDF : 20599714.8/14

Right Out: -0.224 ± 0.000 χ^2/NDF : 168125914.6/18

Left In: -0.225 ± 0.000 χ^2/NDF : 14246479.7/12

Left: -0.226 ± 0.000 χ^2/NDF : 35053684.8/27

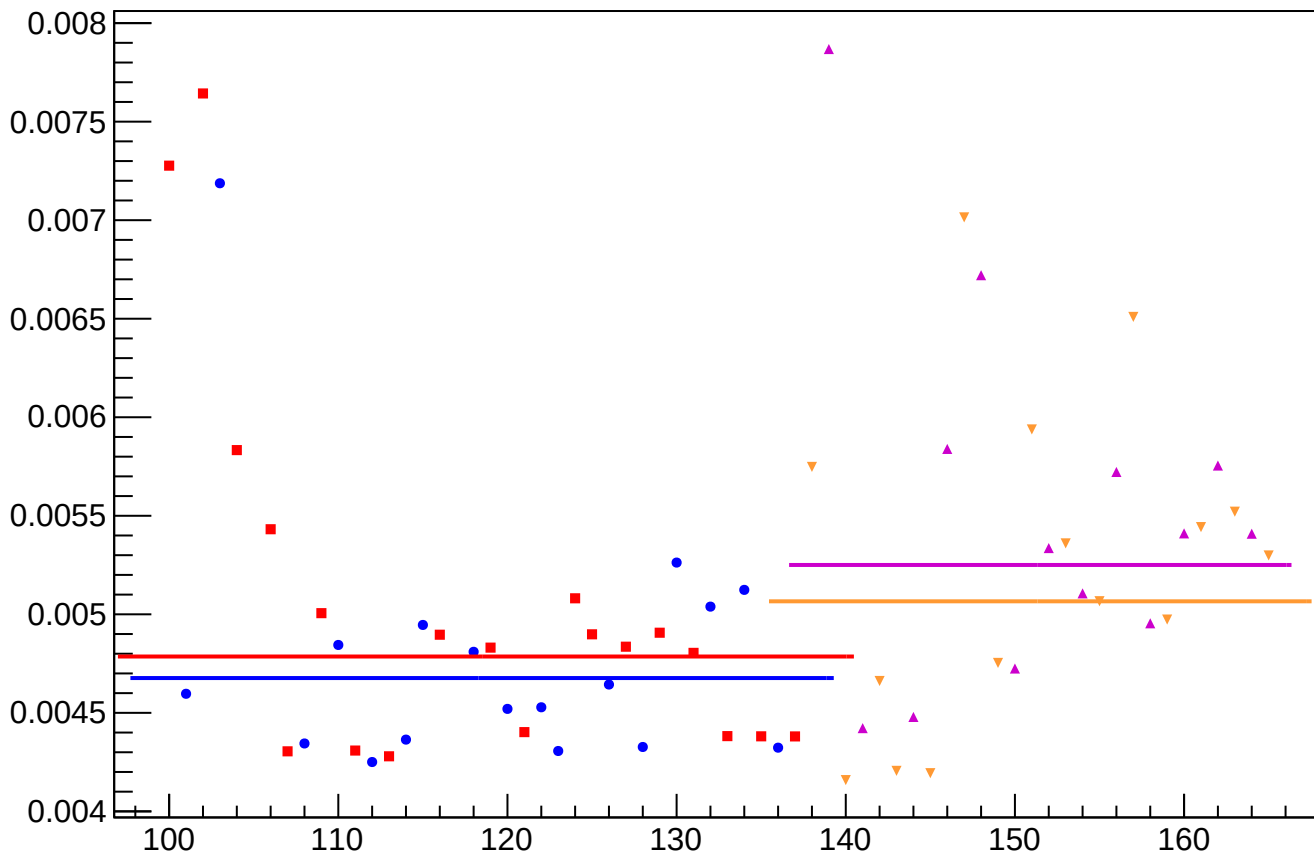
Right: -0.224 ± 0.000 χ^2/NDF : 242852935.9/35

In: -0.225 ± 0.000 χ^2/NDF : 89114826.4/29

Out: -0.225 ± 0.000 χ^2/NDF : 189742153.9/33

All: -0.225 ± 0.000 χ^2/NDF : 278933754.9/63

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 181335.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 447511.3/14

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 382393.9/12

Left: 0.005+/-0.000 χ^2/NDF : 842508.6/27

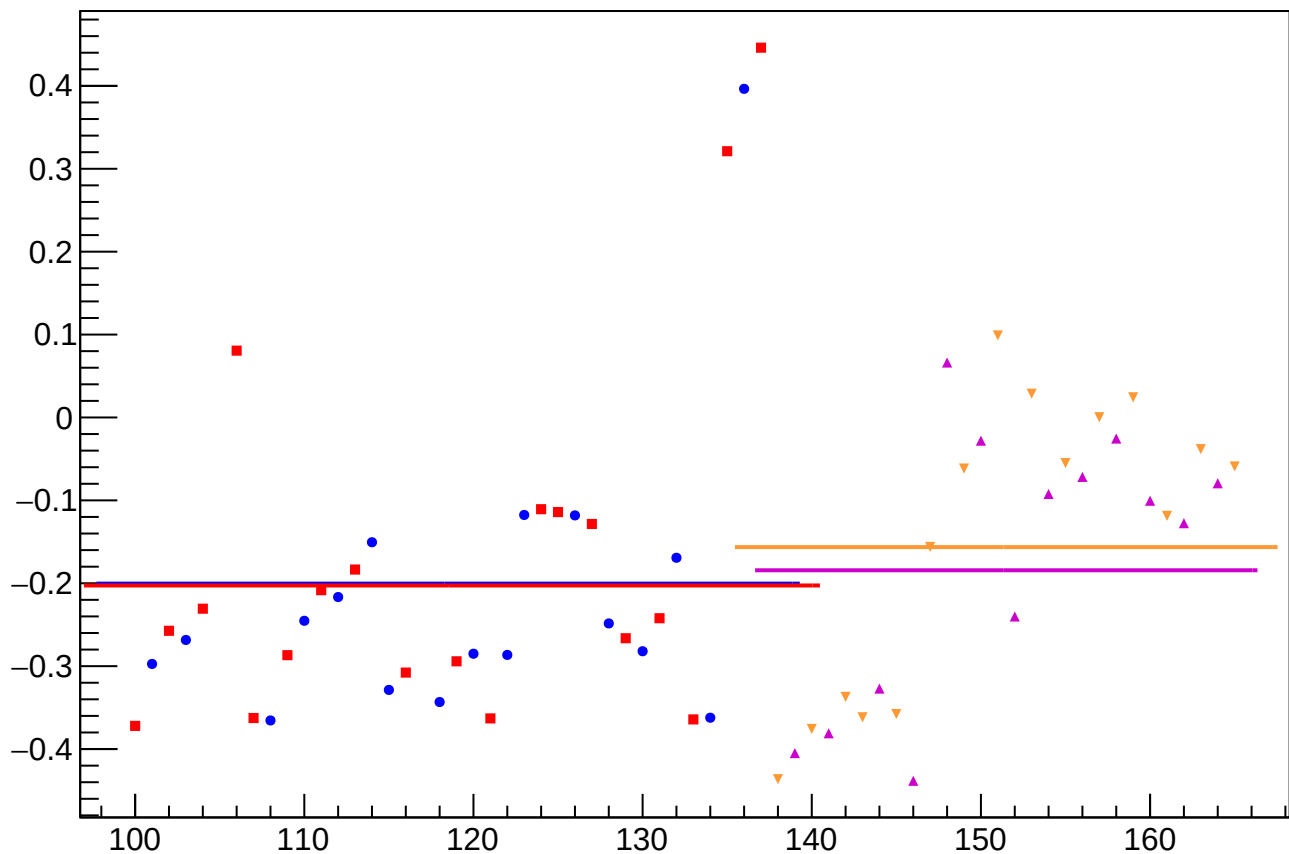
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 665057.5/29

Out: 0.005+/-0.000 χ^2/NDF : 721424.7/33

All: 0.005+/-0.000 χ^2/NDF : 1387853.1/63

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200+/-0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.156+/-0.000 χ^2/NDF : 11008403141.9/14

Right Out: -0.203+/-0.000 χ^2/NDF : 5028268807.1/18

Left In: -0.184+/-0.000 χ^2/NDF : 7643269470.3/12

Left: -0.170+/-0.000 χ^2/NDF : 18783137299.9/27

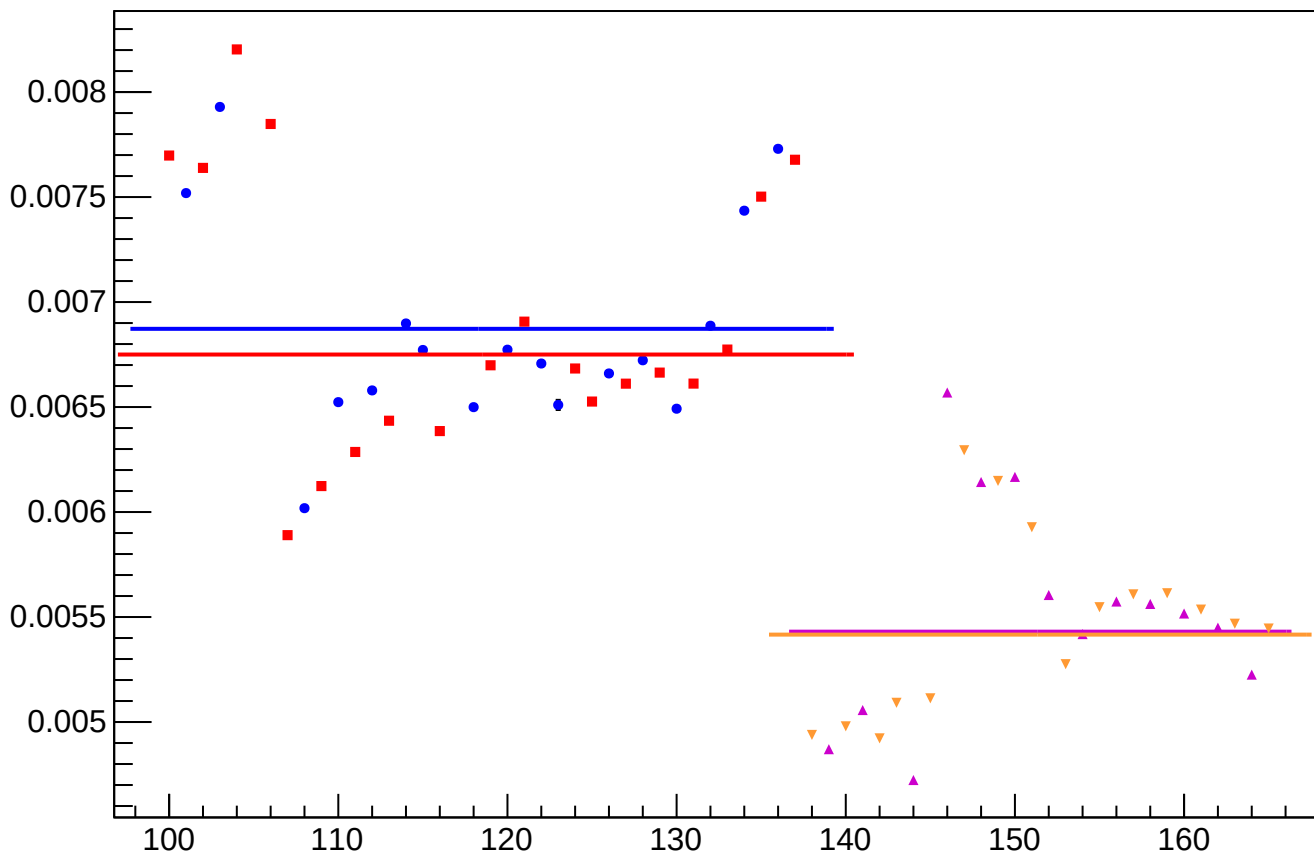
Right: -0.202+/-0.000 χ^2/NDF : 11002181720.9/35

In: -0.189+/-0.000 χ^2/NDF : 13641980658.7/29

Out: -0.170+/-0.000 χ^2/NDF : 16262865525.5/33

All: -0.179+/-0.000 χ^2/NDF : 29990940869.0/...

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78611.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :105569.2/14

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF :145752.4/12

Left: 0.005+/-0.000 χ^2/NDF : 251387.8/27

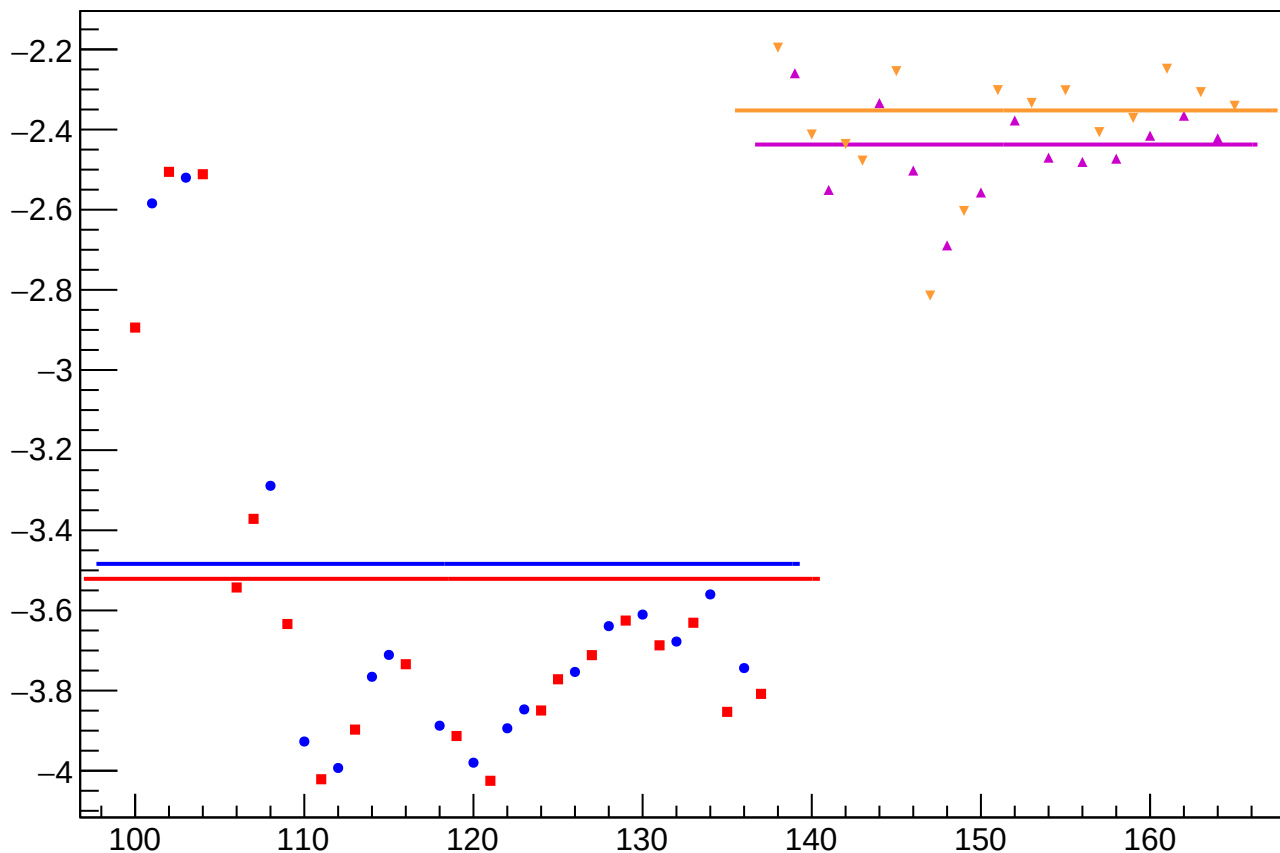
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :628062.5/29

Out: 0.006+/-0.000 χ^2/NDF :586342.0/33

All: 0.006+/-0.000 χ^2/NDF : 1215527.6/63

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484 ± 0.000 $\chi^2/\text{NDF}: 27174302276.9/16$

Left Out: -2.352 ± 0.000 $\chi^2/\text{NDF}: 1653992234.3/14$

Right Out: -3.521 ± 0.000 $\chi^2/\text{NDF}: 26472007419.8/18$

Left In: -2.437 ± 0.000 $\chi^2/\text{NDF}: 934528236.0/12$

Left: -2.393 ± 0.000 $\chi^2/\text{NDF}: 3043827626.4/27$

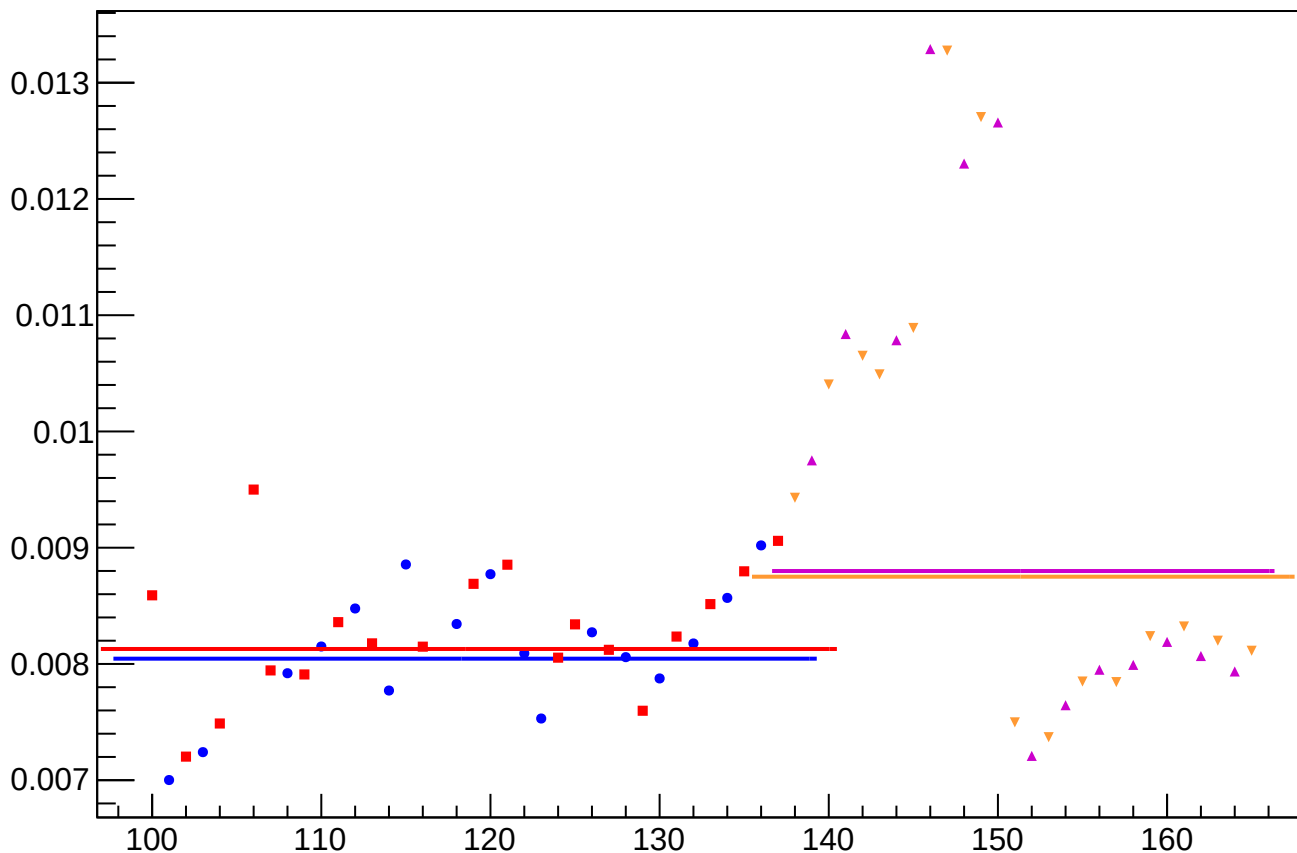
Right: -3.503 ± 0.000 $\chi^2/\text{NDF}: 53717081893.8/35$

In: -2.914 ± 0.000 $\chi^2/\text{NDF}: 88106311178.4/29$

Out: -2.864 ± 0.000 $\chi^2/\text{NDF}: 106841059872.1/33$

All: -2.888 ± 0.000 $\chi^2/\text{NDF}: 195223420647.2$

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 589280.7/14

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 698669.7/12

Left: 0.009+/-0.000 χ^2/NDF : 1288250.2/27

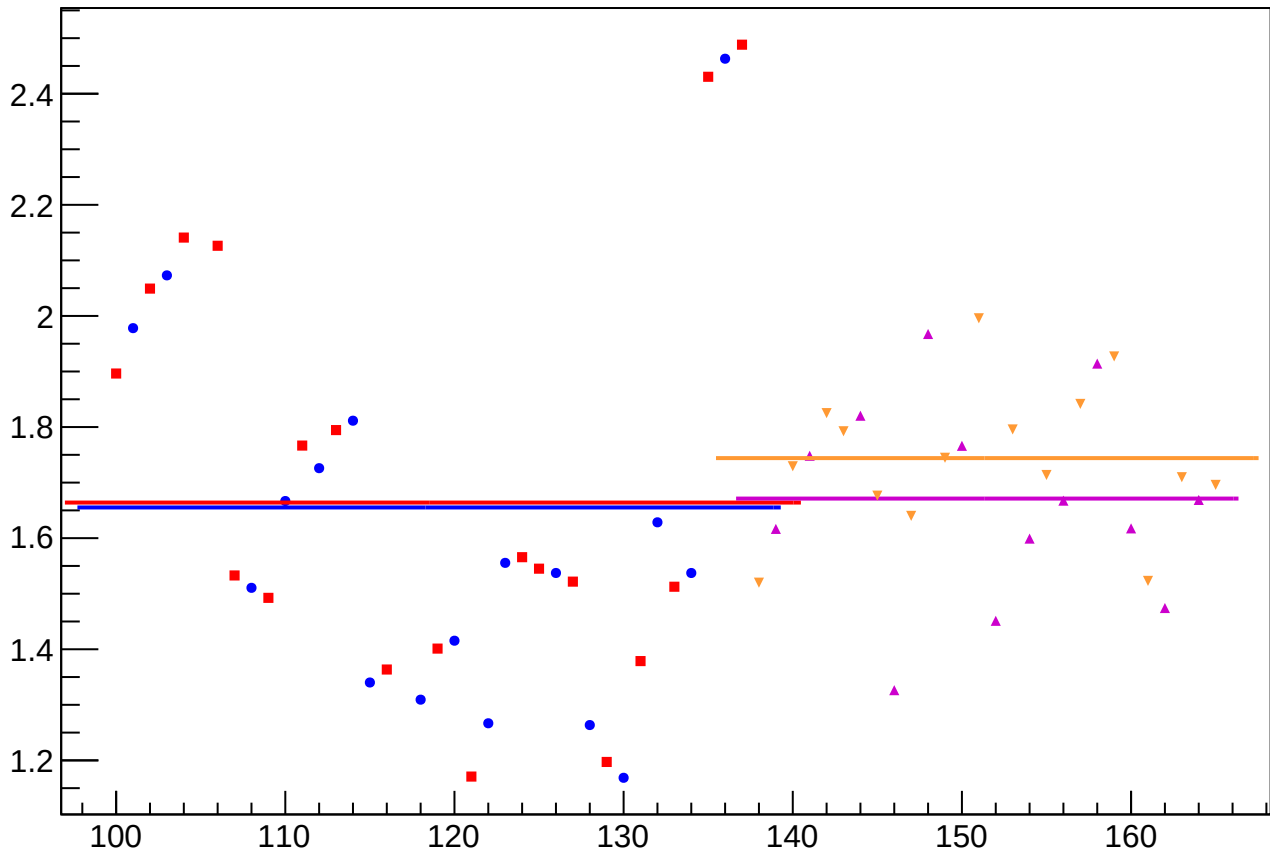
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 832967.8/29

Out: 0.008+/-0.000 χ^2/NDF : 691316.0/33

All: 0.008+/-0.000 χ^2/NDF : 1524393.0/63

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655 $\pm$ 0.000 χ^2 /NDF: 6476474909.3/16

Left Out: 1.744 $\pm$ 0.000 χ^2 /NDF:1516556018.0/14

Right Out: 1.664 $\pm$ 0.000 χ^2 /NDF: 5944262279.7/18

Left In: 1.671 $\pm$ 0.000 χ^2 /NDF:2242077618.8/12

Left: 1.709 $\pm$ 0.000 χ^2 /NDF: 3986629345.9/27

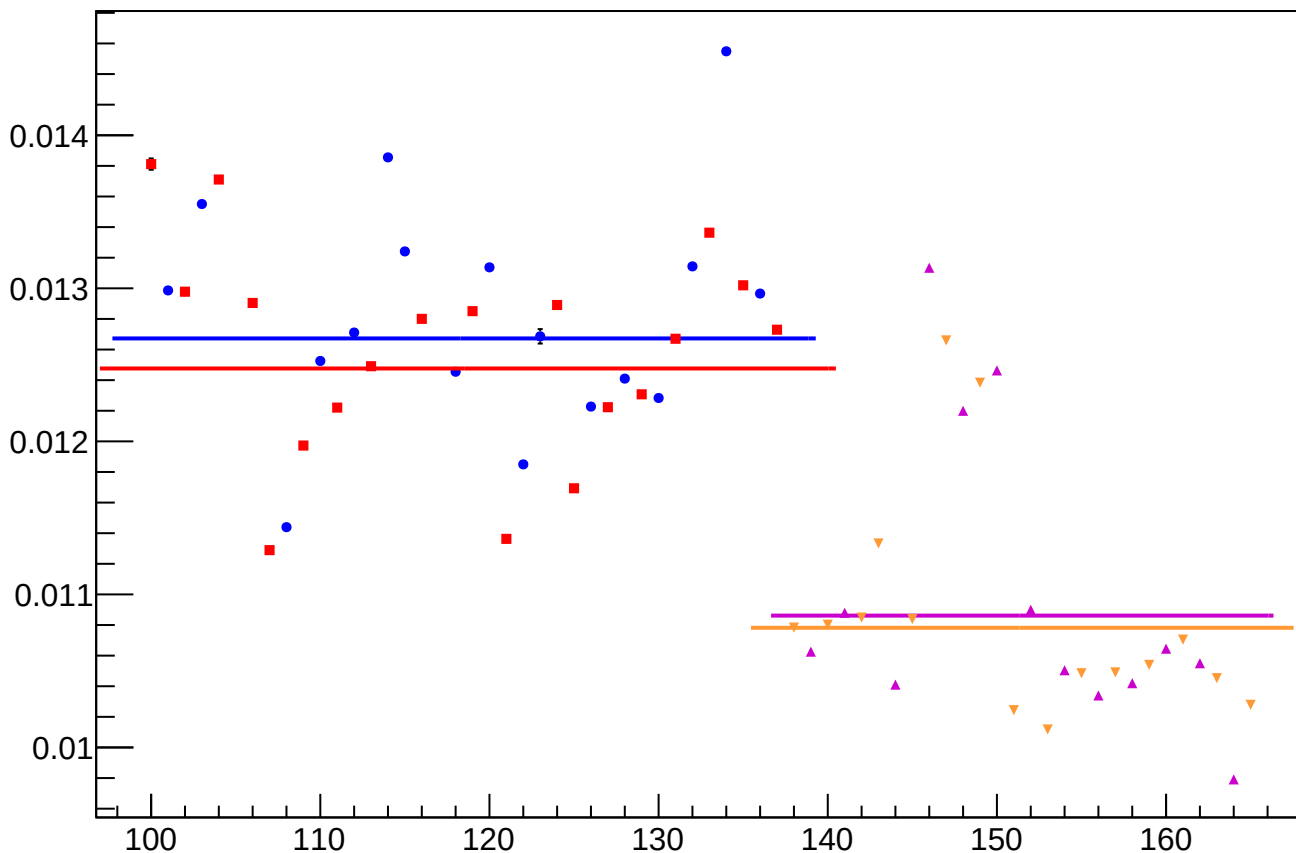
Right: 1.660 $\pm$ 0.000 χ^2 /NDF: 12422392259.9/35

In: 1.666 $\pm$ 0.000 χ^2 /NDF:8725534577.9/29

Out: 1.718 $\pm$ 0.000 χ^2 /NDF:7650914623.1/33

All: 1.693 $\pm$ 0.000 χ^2 /NDF: 16549095806.3/66

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 77465.1/14

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 113149.4/12

Left: 0.011+/-0.000 χ^2/NDF : 191159.6/27

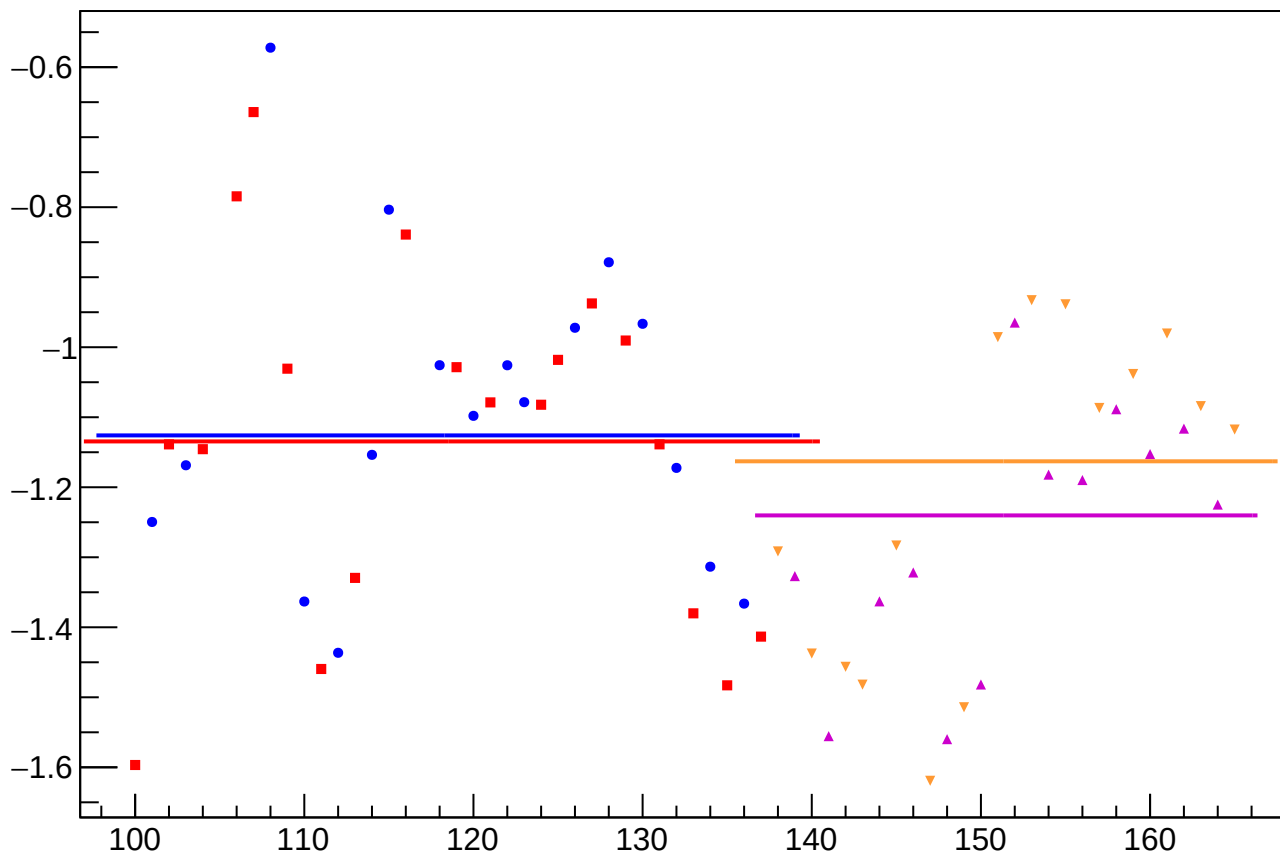
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF : 323786.5/29

Out: 0.011+/-0.000 χ^2/NDF : 287101.2/33

All: 0.011+/-0.000 χ^2/NDF : 612886.2/63

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000

χ^2/NDF : 3574776639.2/16

Left: -1.199+/-0.000

χ^2/NDF : 11700258321.0/27

Left Out: -1.163+/-0.000

χ^2/NDF : 7045852664.0/14

Right: -1.130+/-0.000

χ^2/NDF : 7255318739.1/35

Right Out: -1.135+/-0.000

χ^2/NDF : 3677461023.4/18

In: -1.198+/-0.000

χ^2/NDF : 8464807840.1/29

Out: -1.153+/-0.000

χ^2/NDF : 10767585548.7/33

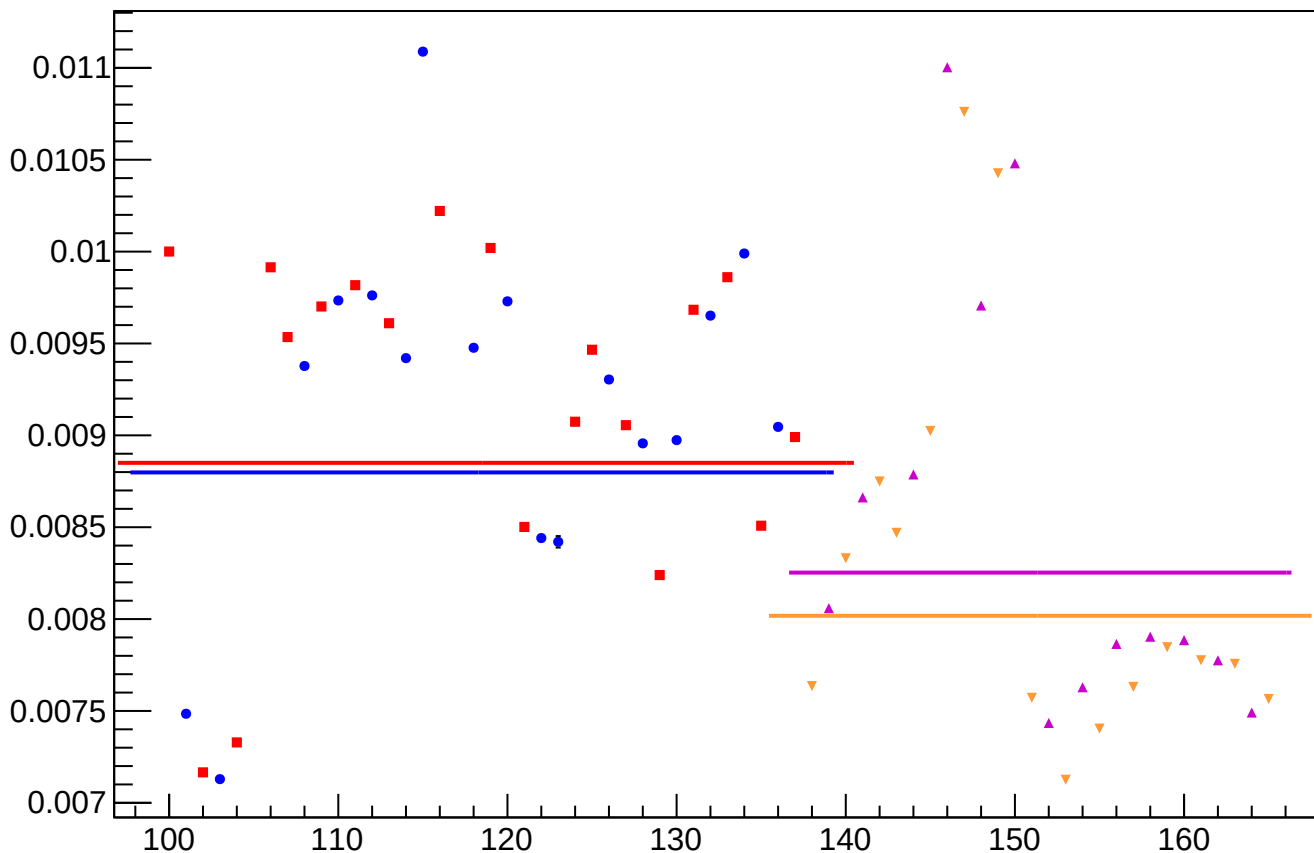
Left In: -1.240+/-0.000

χ^2/NDF : 4215098436.0/12

All: -1.174+/-0.000

χ^2/NDF : 19462323435.7/71

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008+/-0.000 χ^2/NDF : 233966.7/14

Right Out: 0.009+/-0.000 χ^2/NDF : 173958.0/18

Left In: 0.008+/-0.000 χ^2/NDF : 241312.3/12

Left: 0.008+/-0.000 χ^2/NDF : 483399.9/27

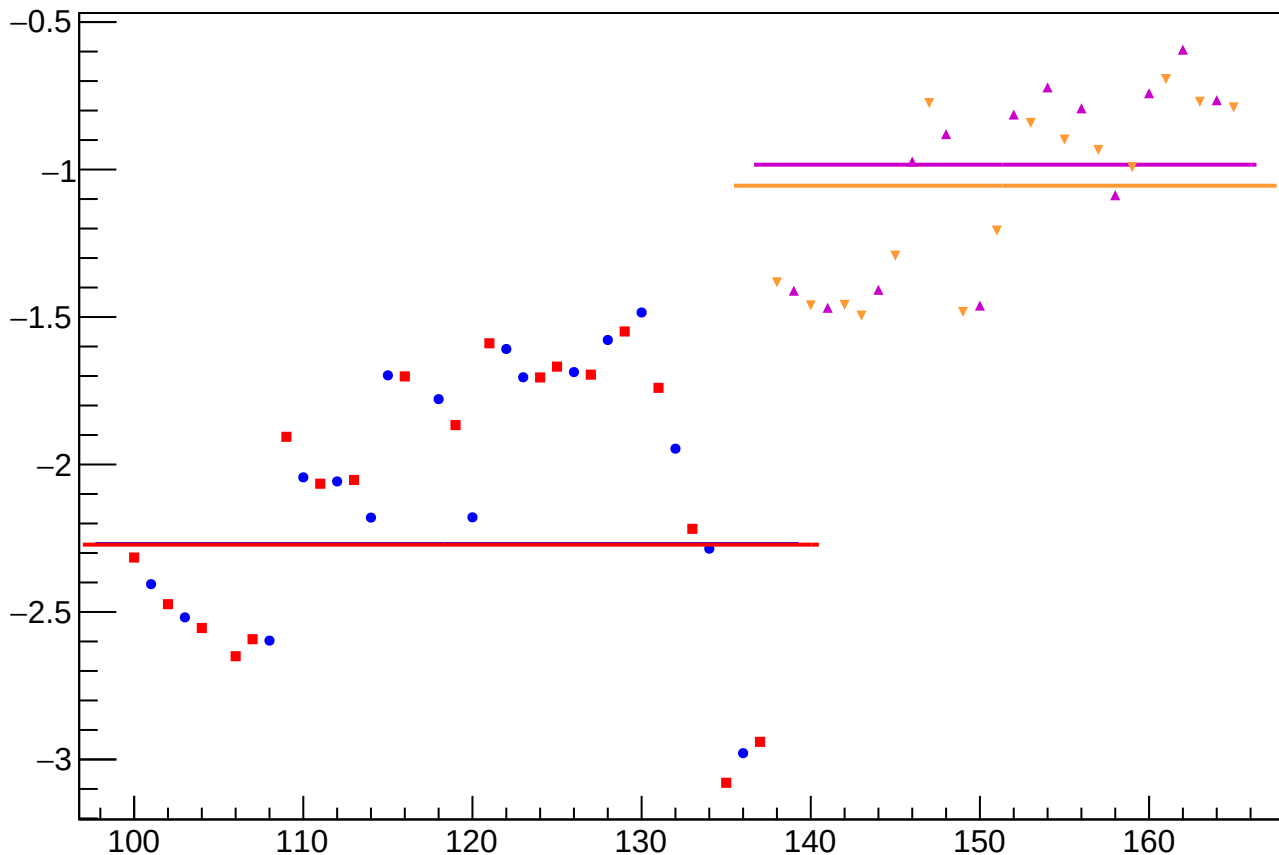
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF : 423633.4/29

Out: 0.008+/-0.000 χ^2/NDF : 483970.6/33

All: 0.008+/-0.000 χ^2/NDF : 912552.5/63

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.055+/-0.000 χ^2/NDF : 17341774983.6/14

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.984+/-0.000 χ^2/NDF : 17692293361.4/12

Left: -1.020+/-0.000 χ^2/NDF : 35566210458.3/27

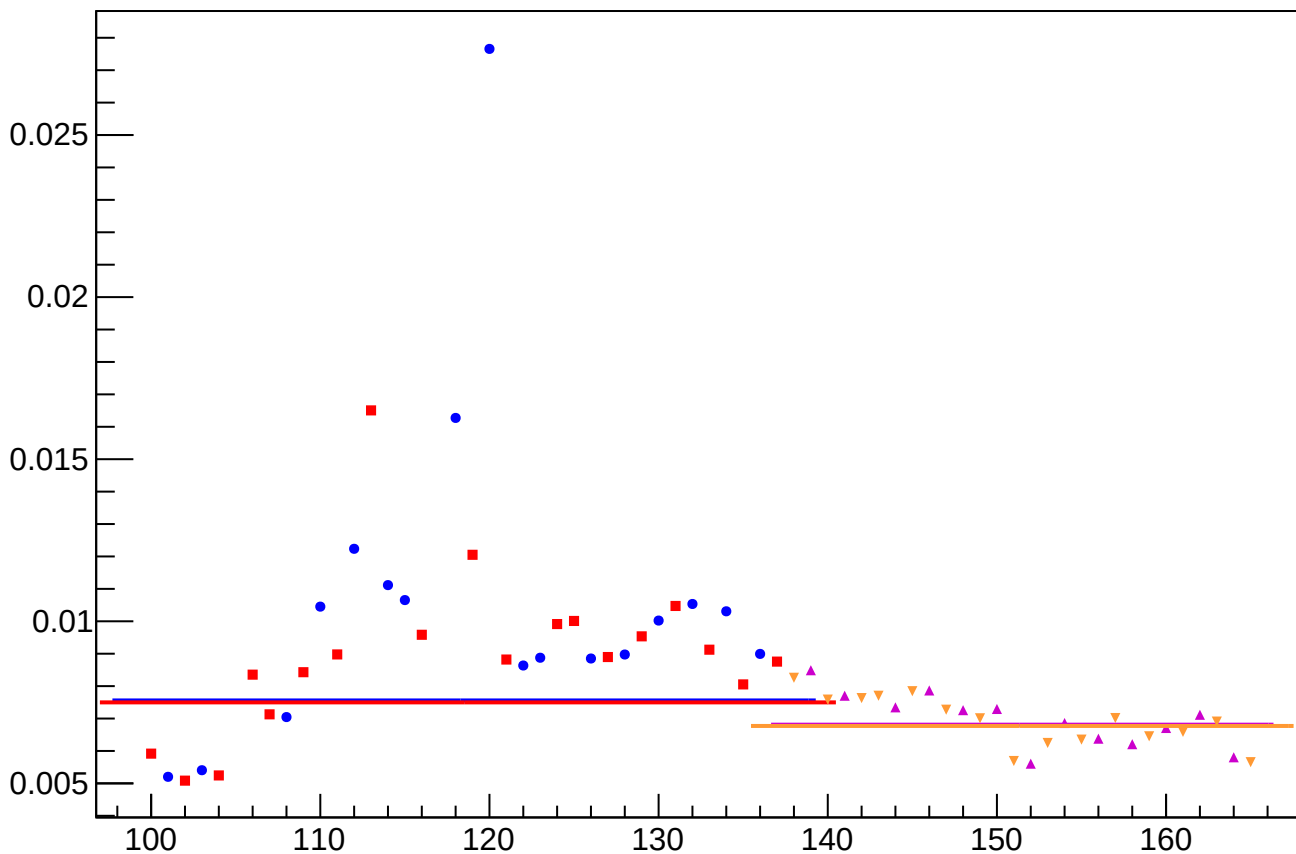
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.373+/-0.000 χ^2/NDF : 136672583599.0/29

Out: -1.437+/-0.000 χ^2/NDF : 137450607783.1/33

All: -1.407+/-0.000 χ^2/NDF : 274745933246.9

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :236993.4/14

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.007+/-0.000 χ^2/NDF :246110.9/12

Left: 0.007+/-0.000 χ^2/NDF : 483423.9/27

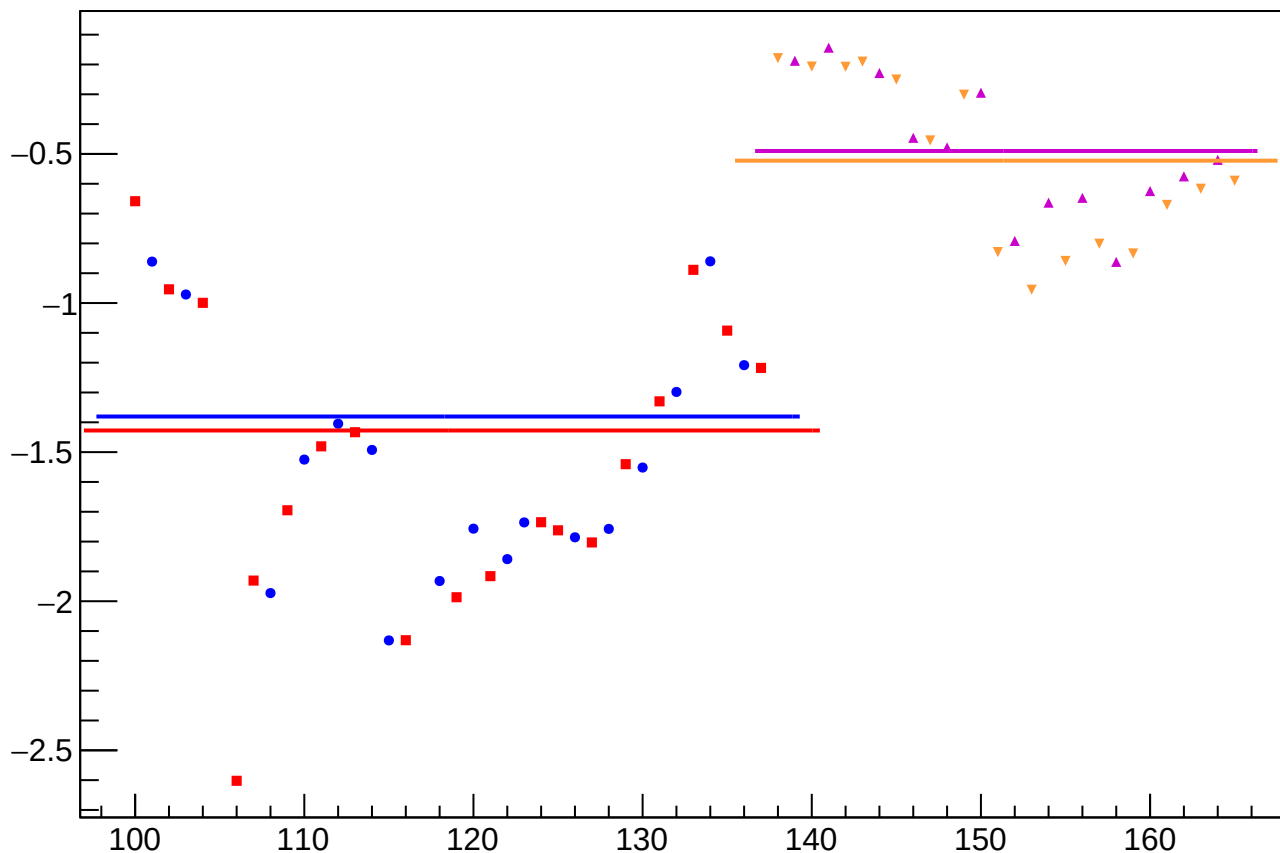
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF :1535781.2/29

Out: 0.007+/-0.000 χ^2/NDF :1243180.8/33

All: 0.007+/-0.000 χ^2/NDF : 2779377.8/63

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.507+/-0.000

χ^2/NDF : 72819754236.5/27

Left Out: -0.523+/-0.000

χ^2/NDF : 44474646594.0/14

Right: -1.406+/-0.000

χ^2/NDF : 49770978716.8/35

Right Out: -1.427+/-0.000

χ^2/NDF : 29616178528.0/18

In: -0.664+/-0.000

χ^2/NDF : 130894743466.4/29

Out: -0.710+/-0.000

χ^2/NDF : 172686286947.9/33

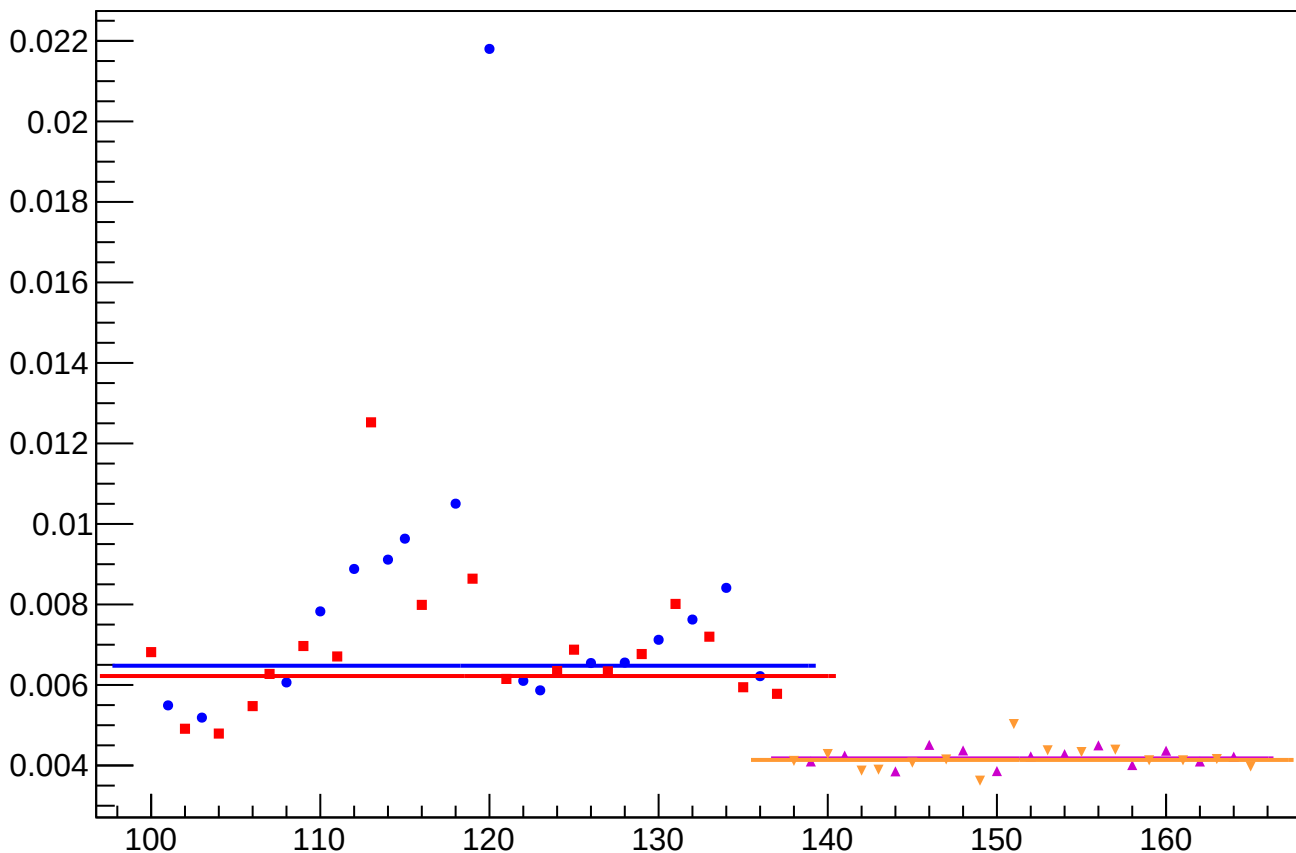
Left In: -0.490+/-0.000

χ^2/NDF : 28051128216.4/12

All: -0.688+/-0.000

χ^2/NDF : 304324289606.1

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004+/-0.000 χ^2/NDF : 89301.2/14

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF : 46757.0/12

Left: 0.004+/-0.000 χ^2/NDF : 136853.3/27

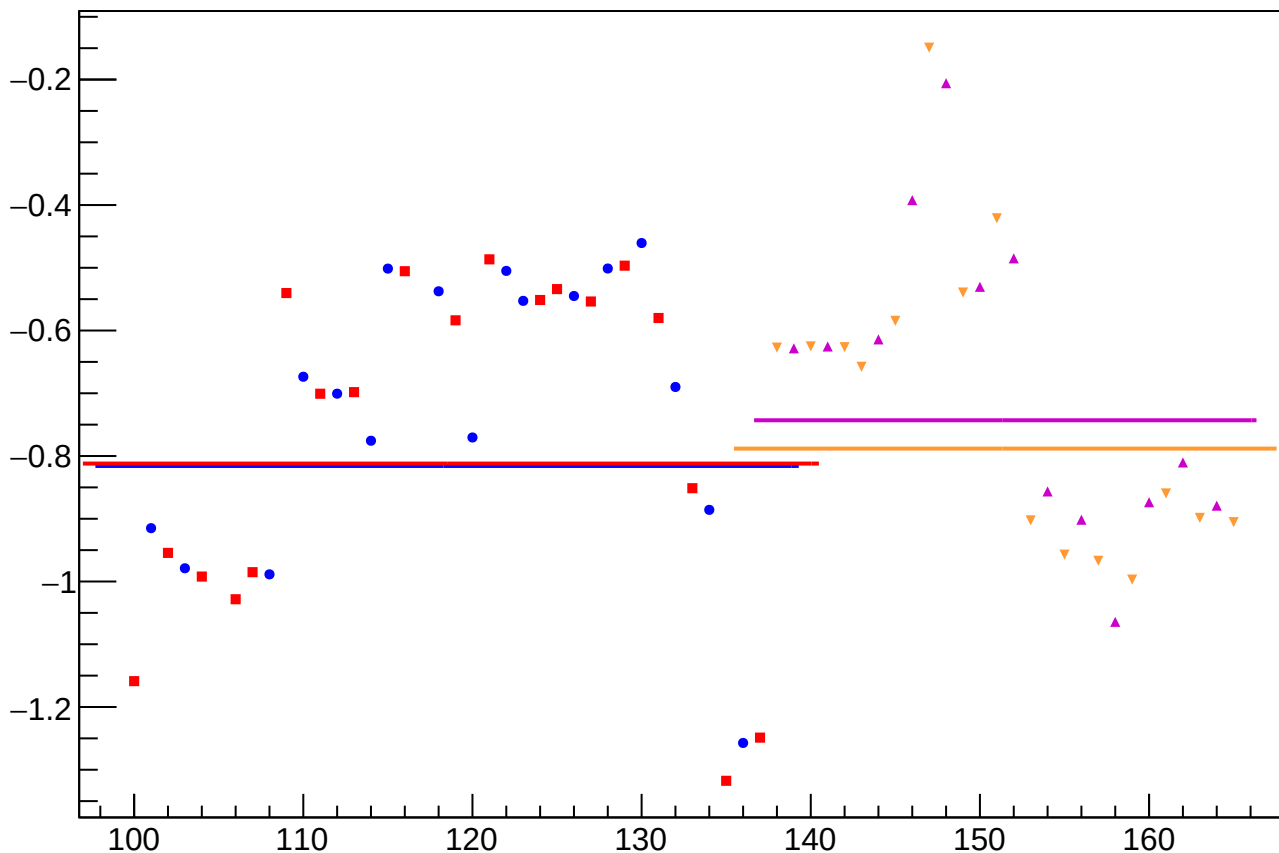
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.005+/-0.000 χ^2/NDF : 1726776.4/29

Out: 0.005+/-0.000 χ^2/NDF : 1558968.1/33

All: 0.005+/-0.000 χ^2/NDF : 3287873.8/63

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 $\pm$ 0.000 χ^2 /NDF: 14172884795.2/16

Left Out: -0.788 $\pm$ 0.000 χ^2 /NDF: 26133290896.1/14

Right Out: -0.812 $\pm$ 0.000 χ^2 /NDF: 16815852448.9/18

Left In: -0.743 $\pm$ 0.000 χ^2 /NDF: 25937863647.5/12

Left: -0.766 $\pm$ 0.000 χ^2 /NDF: 52634618940.6/27

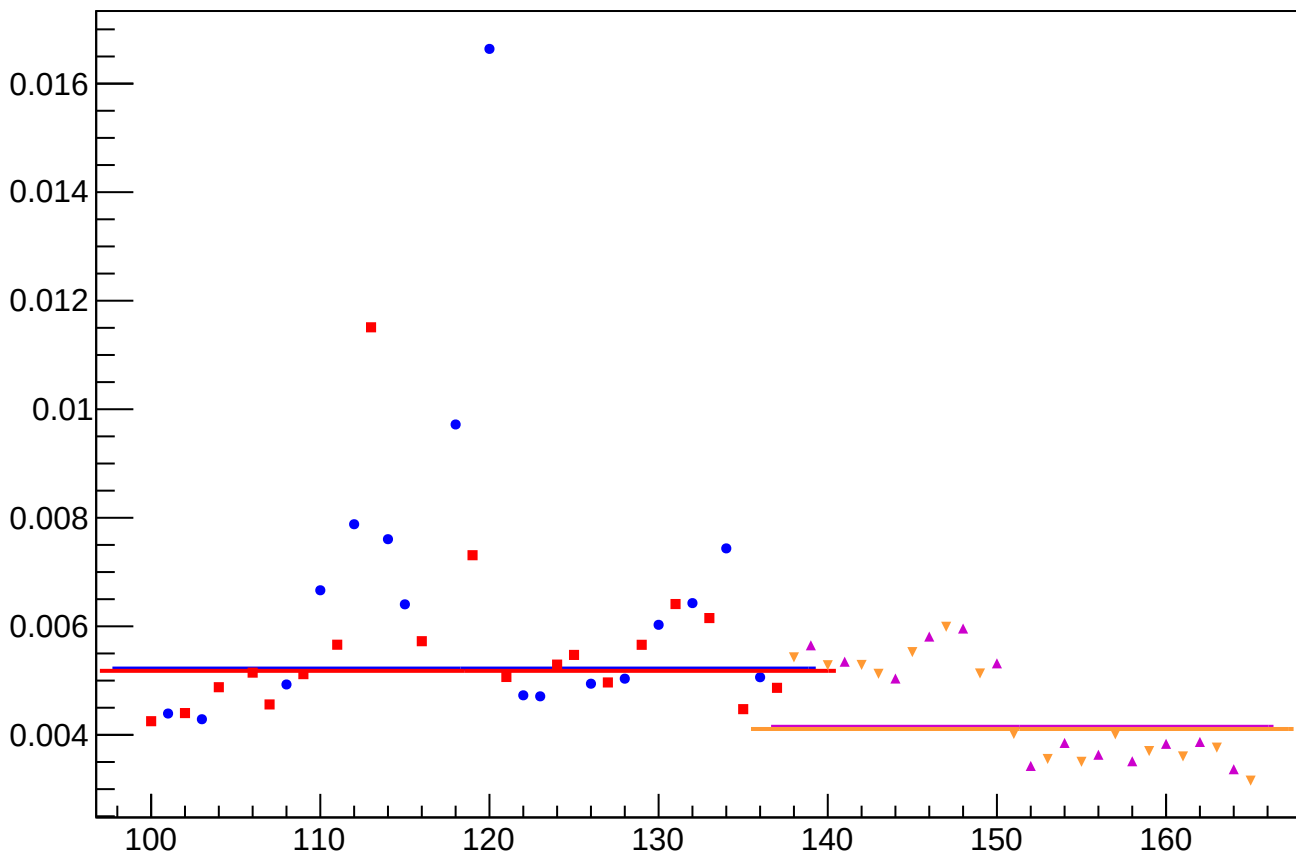
Right: -0.814 $\pm$ 0.000 χ^2 /NDF: 30990213454.0/35

In: -0.763 $\pm$ 0.000 χ^2 /NDF: 40869426175.9/29

Out: -0.795 $\pm$ 0.000 χ^2 /NDF: 43040169975.7/33

All: -0.779 $\pm$ 0.000 χ^2 /NDF: 84303687711.1/100

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF : 768983.7/14

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF : 785042.4/12

Left: 0.004+/-0.000 χ^2/NDF : 1554925.5/27

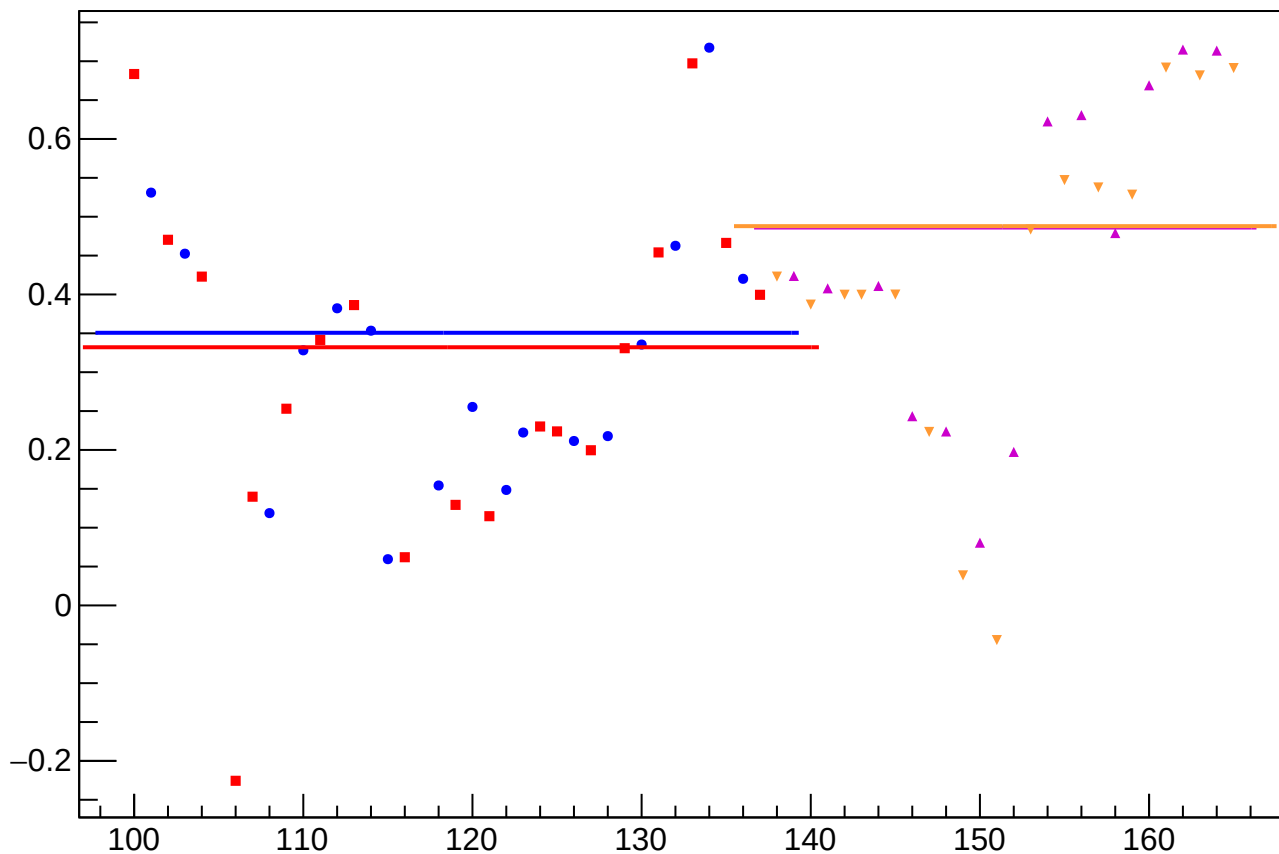
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF : 1779154.7/29

Out: 0.004+/-0.000 χ^2/NDF : 1499683.3/33

All: 0.004+/-0.000 χ^2/NDF : 3279592.8/63

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.488+/-0.000 χ^2/NDF :33821105443.9/14

Right Out: 0.332+/-0.000 χ^2/NDF : 11796213425.9/18

Left In: 0.486+/-0.000 χ^2/NDF :30516364840.3/12

Left: 0.487+/-0.000 χ^2/NDF : 64338780155.9/27

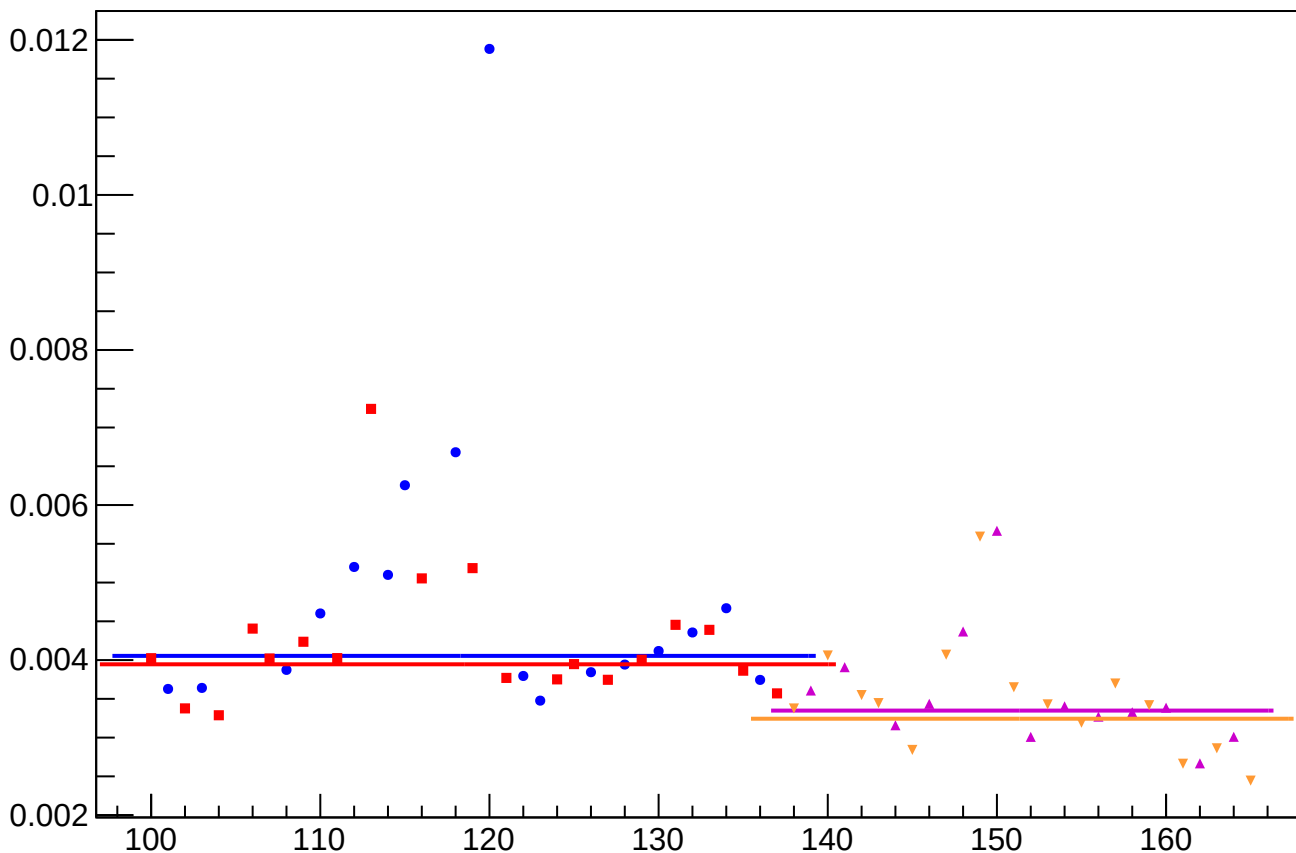
Right: 0.341+/-0.000 χ^2/NDF : 19270918435.8/35

In: 0.445+/-0.000 χ^2/NDF :42342328585.6/29

Out: 0.440+/-0.000 χ^2/NDF :52226176960.3/33

All: 0.442+/-0.000 χ^2/NDF : 94582215165.6/66

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.003+/-0.000 χ^2/NDF : 641580.5/14

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 497488.2/12

Left: 0.003+/-0.000 χ^2/NDF : 1148261.5/27

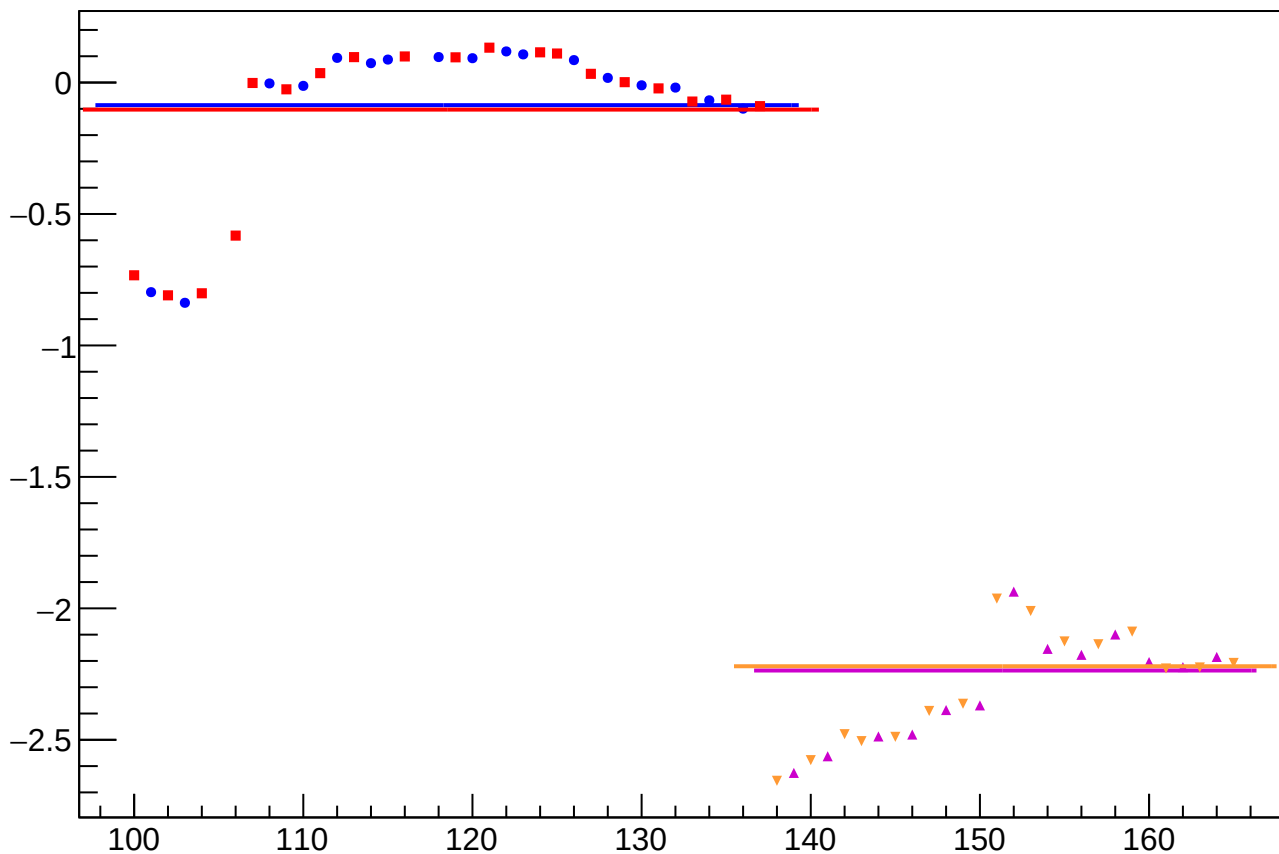
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.004+/-0.000 χ^2/NDF : 1192697.1/29

Out: 0.003+/-0.000 χ^2/NDF : 1170974.2/33

All: 0.004+/-0.000 χ^2/NDF : 2376838.6/63

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.220+/-0.000 χ^2/NDF : 3414715565.0/14

Right Out: -0.103+/-0.000 χ^2/NDF : 5553039516.7/18

Left In: -2.236+/-0.000 χ^2/NDF : 2682559736.3/12

Left: -2.228+/-0.000 χ^2/NDF : 6108126211.7/27

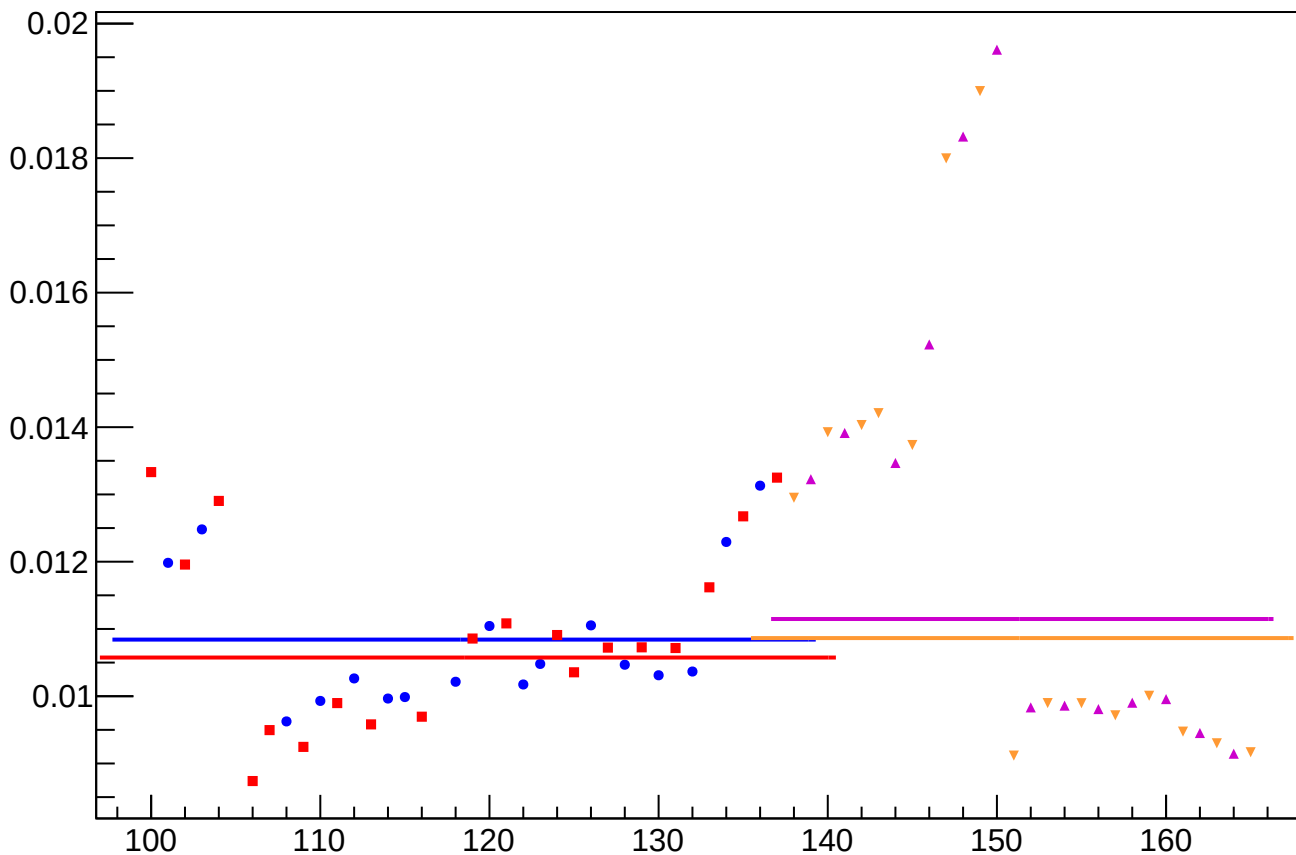
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.333+/-0.000 χ^2/NDF : 159142827461.9/29

Out: -1.344+/-0.000 χ^2/NDF : 173706408115.3/33

All: -1.339+/-0.000 χ^2/NDF : 332856707072.5

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :1071702.9/14

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.011+/-0.000 χ^2/NDF :1074101.1/12

Left: 0.011+/-0.000 χ^2/NDF : 2152481.9/27

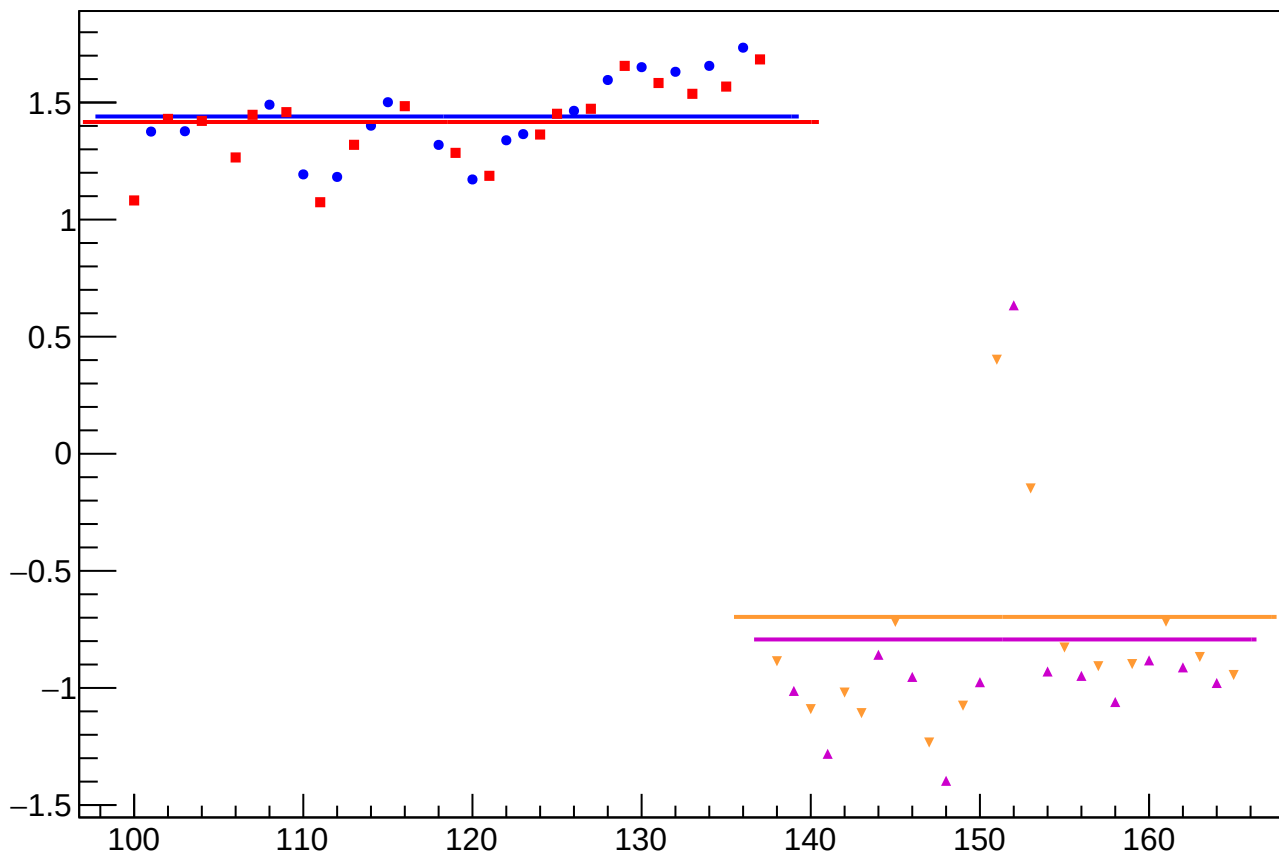
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1204499.7/29

Out: 0.011+/-0.000 χ^2/NDF :1256815.8/33

All: 0.011+/-0.000 χ^2/NDF : 2472070.8/63

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440+/-0.000 χ^2/NDF : 3449252780.8/16

Left Out: -0.697+/-0.000 χ^2/NDF : 30350886894.7/14

Right Out: 1.417+/-0.000 χ^2/NDF : 2674064512.3/18

Left In: -0.793+/-0.000 χ^2/NDF : 39490627335.3/12

Left: -0.743+/-0.000 χ^2/NDF : 70494041162.4/27

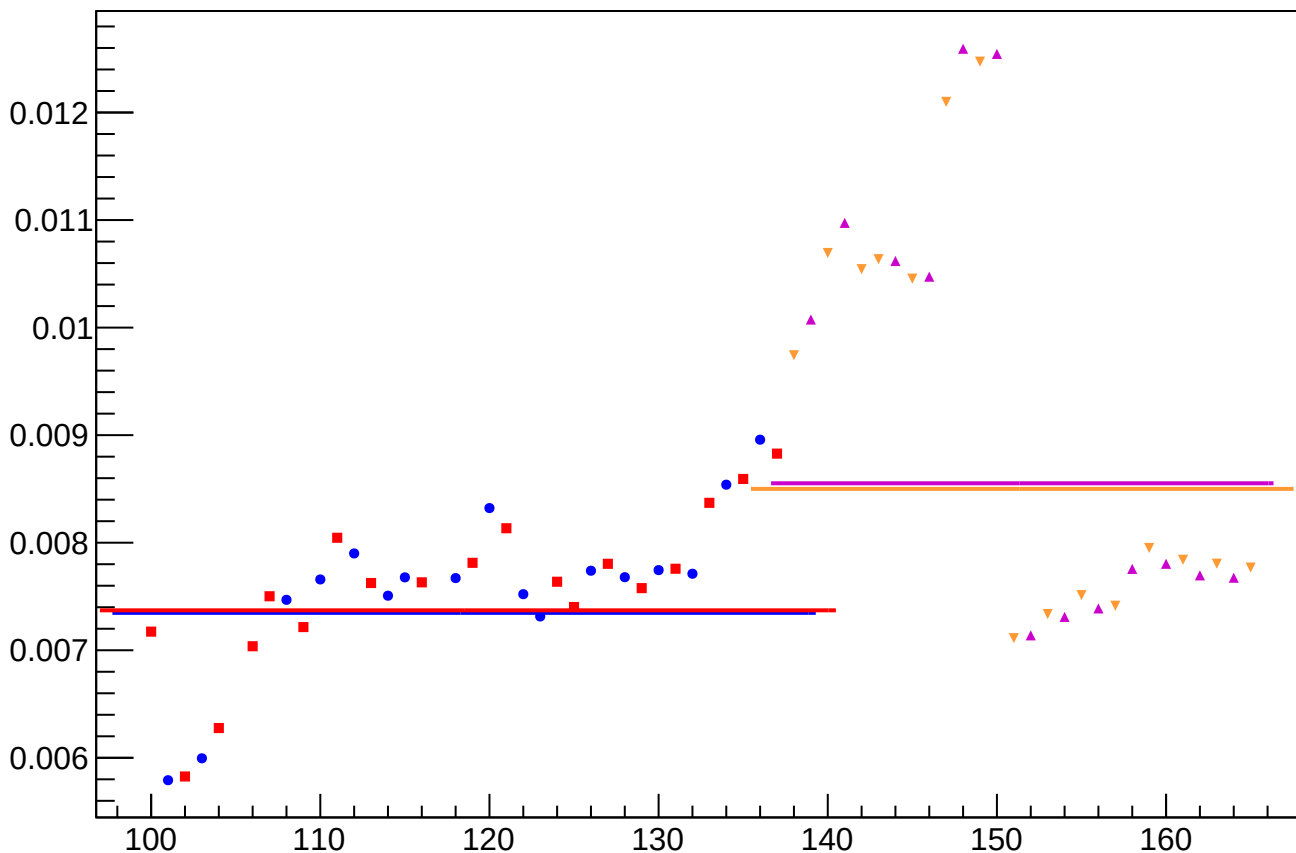
Right: 1.428+/-0.000 χ^2/NDF : 6158088082.8/35

In: 0.268+/-0.000 χ^2/NDF : 362329487926.5/29

Out: 0.290+/-0.000 χ^2/NDF : 340506363016.7/33

All: 0.280+/-0.000 χ^2/NDF : 702898609723.0

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 731051.3/14

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.009+/-0.000 χ^2/NDF : 789945.1/12

Left: 0.009+/-0.000 χ^2/NDF : 1521378.6/27

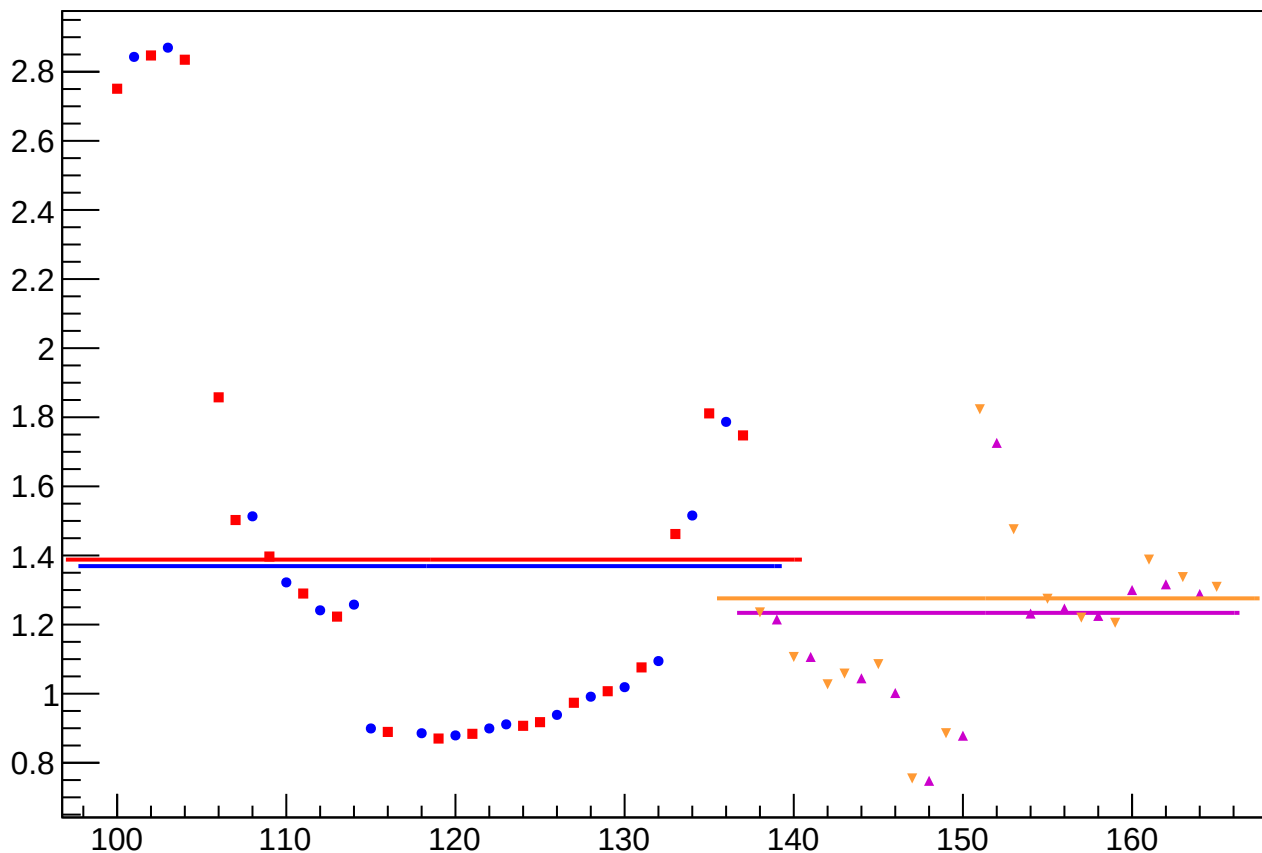
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1204012.4/29

Out: 0.008+/-0.000 χ^2/NDF : 1079317.3/33

All: 0.008+/-0.000 χ^2/NDF : 2283342.0/63

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.276+/-0.000 χ^2/NDF : 9020135426.5/14

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.234+/-0.000 χ^2/NDF : 7036107028.5/12

Left: 1.256+/-0.000 χ^2/NDF : 16188595071.0/27

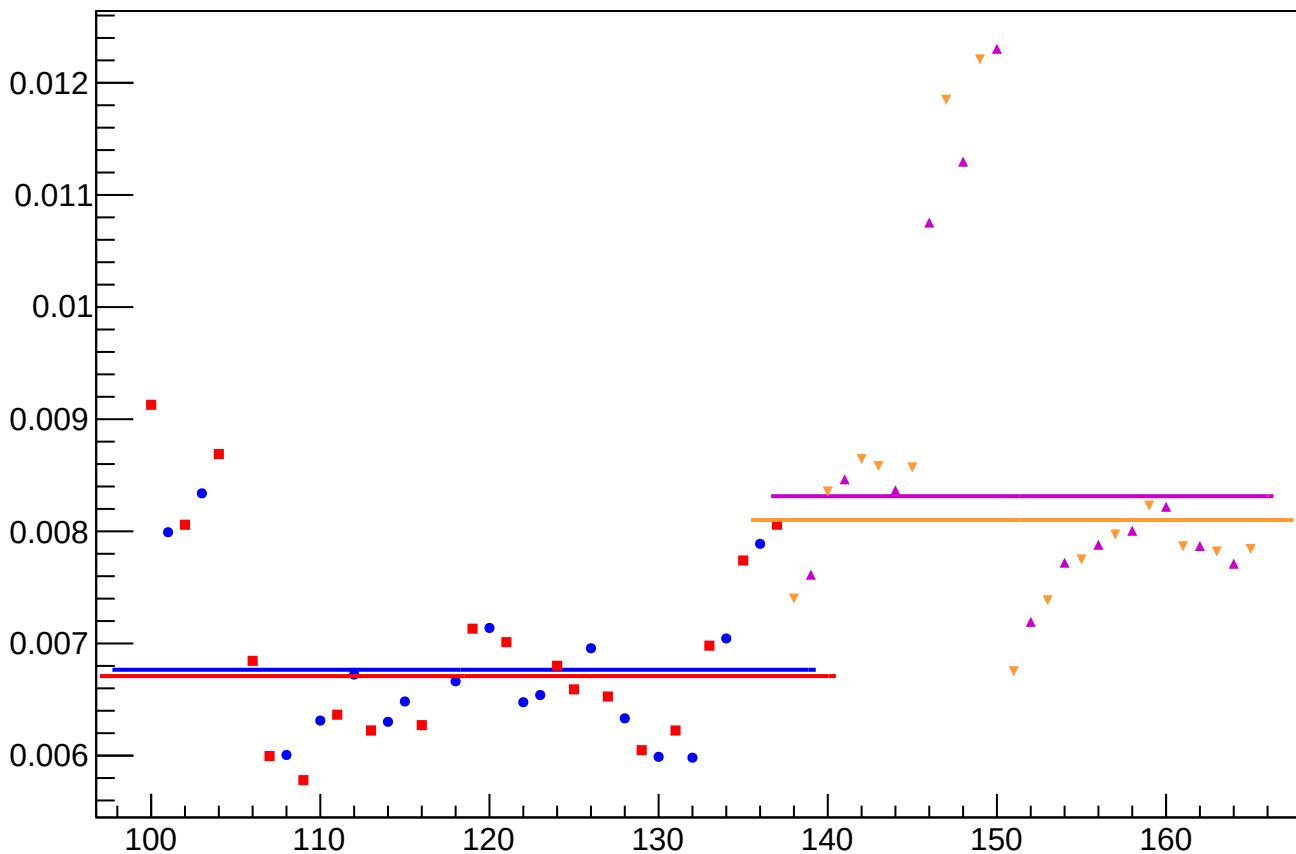
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.302+/-0.000 χ^2/NDF : 62550240559.8/29

Out: 1.331+/-0.000 χ^2/NDF : 59911569228.5/33

All: 1.317+/-0.000 χ^2/NDF : 122587685879.5

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 411126.7/14

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 427889.4/12

Left: 0.008+/-0.000 χ^2/NDF : 845790.6/27

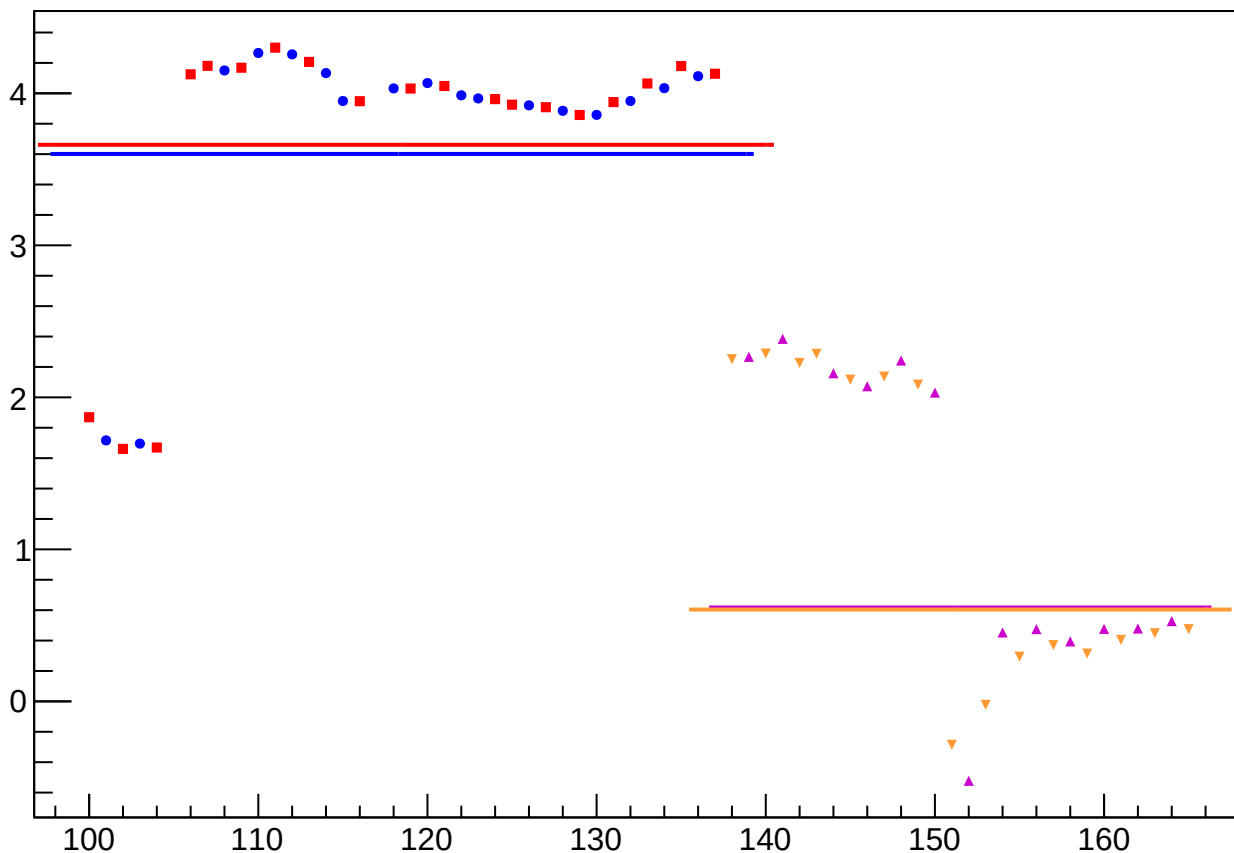
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 930167.3/29

Out: 0.007+/-0.000 χ^2/NDF : 904333.9/33

All: 0.007+/-0.000 χ^2/NDF : 1838609.2/63

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.604+/-0.000 χ^2/NDF : 256354750941.5/14

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.618+/-0.000 χ^2/NDF : 252115657072.3/12

Left: 0.611+/-0.000 χ^2/NDF : 508507736372.6/27

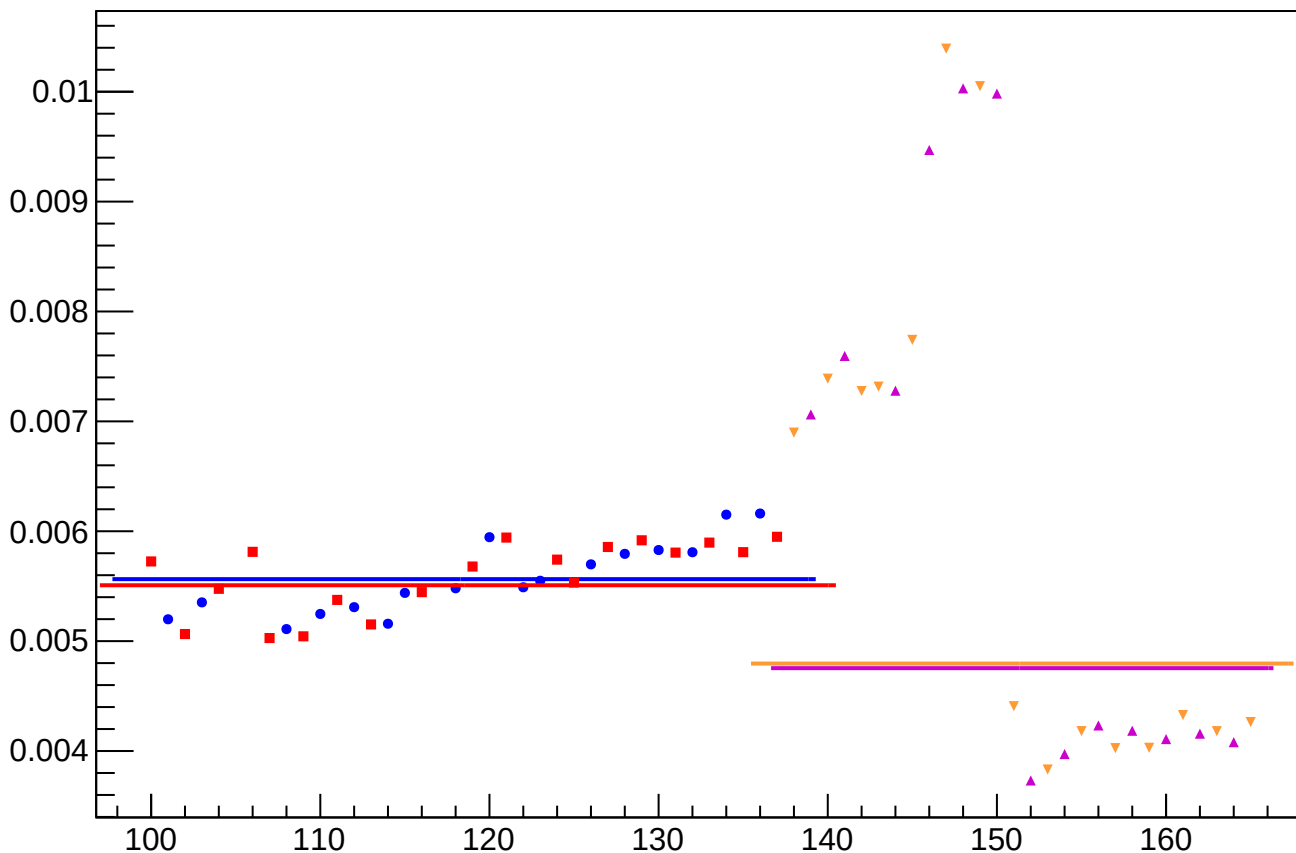
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.681+/-0.000 χ^2/NDF : 1675186333187.7/29

Out: 1.690+/-0.000 χ^2/NDF : 1830586845774.8/33

All: 1.685+/-0.000 χ^2/NDF : 3505801405644.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 47588.2/16

Left Out: 0.005+/-0.000 χ^2/NDF :1896328.5/14

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF :2092628.9/12

Left: 0.005+/-0.000 χ^2/NDF : 3989664.9/27

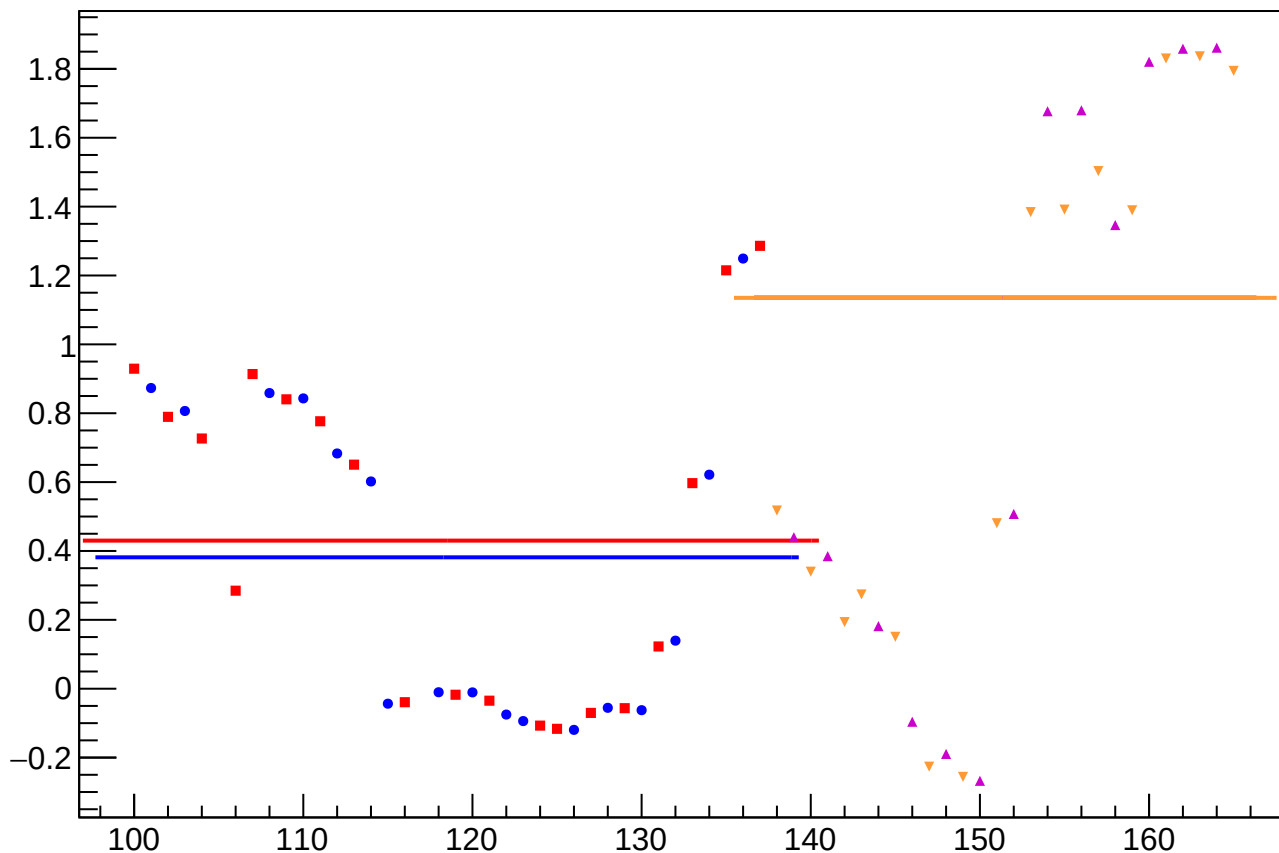
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2322632.1/29

Out: 0.005+/-0.000 χ^2/NDF :2099068.0/33

All: 0.005+/-0.000 χ^2/NDF : 4421726.1/63

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 1.135 $\pm$ 0.000 χ^2 /NDF: 34775663070.6/14

Right Out: 0.430 $\pm$ 0.000 χ^2 /NDF: 6676199135.9/18

Left In: 1.136 $\pm$ 0.000 χ^2 /NDF: 39699304489.2/12

Left: 1.135 $\pm$ 0.000 χ^2 /NDF: 74474990548.9/27

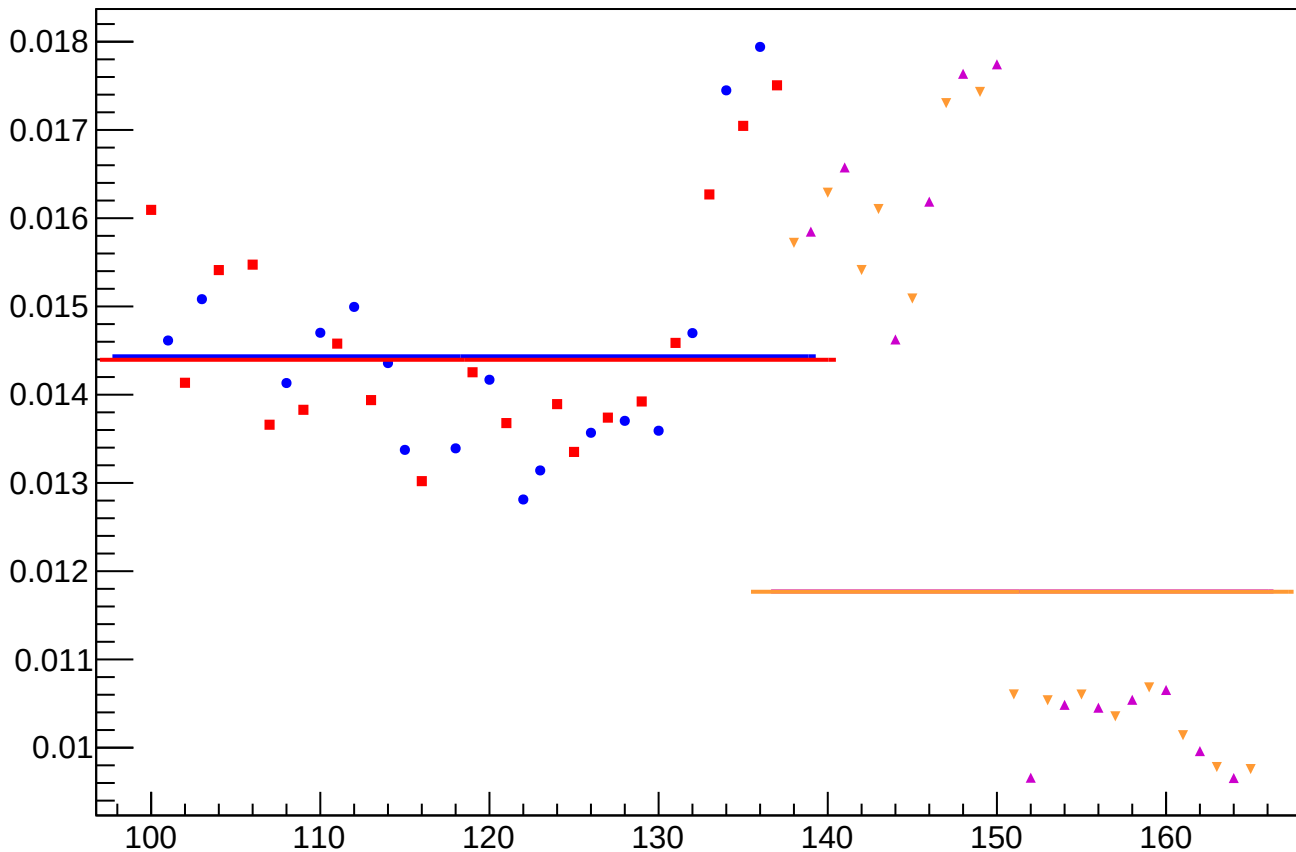
Right: 0.406 $\pm$ 0.000 χ^2 /NDF: 13839390791.2/35

In: 0.900 $\pm$ 0.000 χ^2 /NDF: 59245065829.2/29

Out: 0.918 $\pm$ 0.000 χ^2 /NDF: 52973444098.5/33

All: 0.909 $\pm$ 0.000 χ^2 /NDF: 112236015255.9

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.012+/-0.000 χ^2/NDF : 1007747.0/14

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 1055638.2/12

Left: 0.012+/-0.000 χ^2/NDF : 2063386.1/27

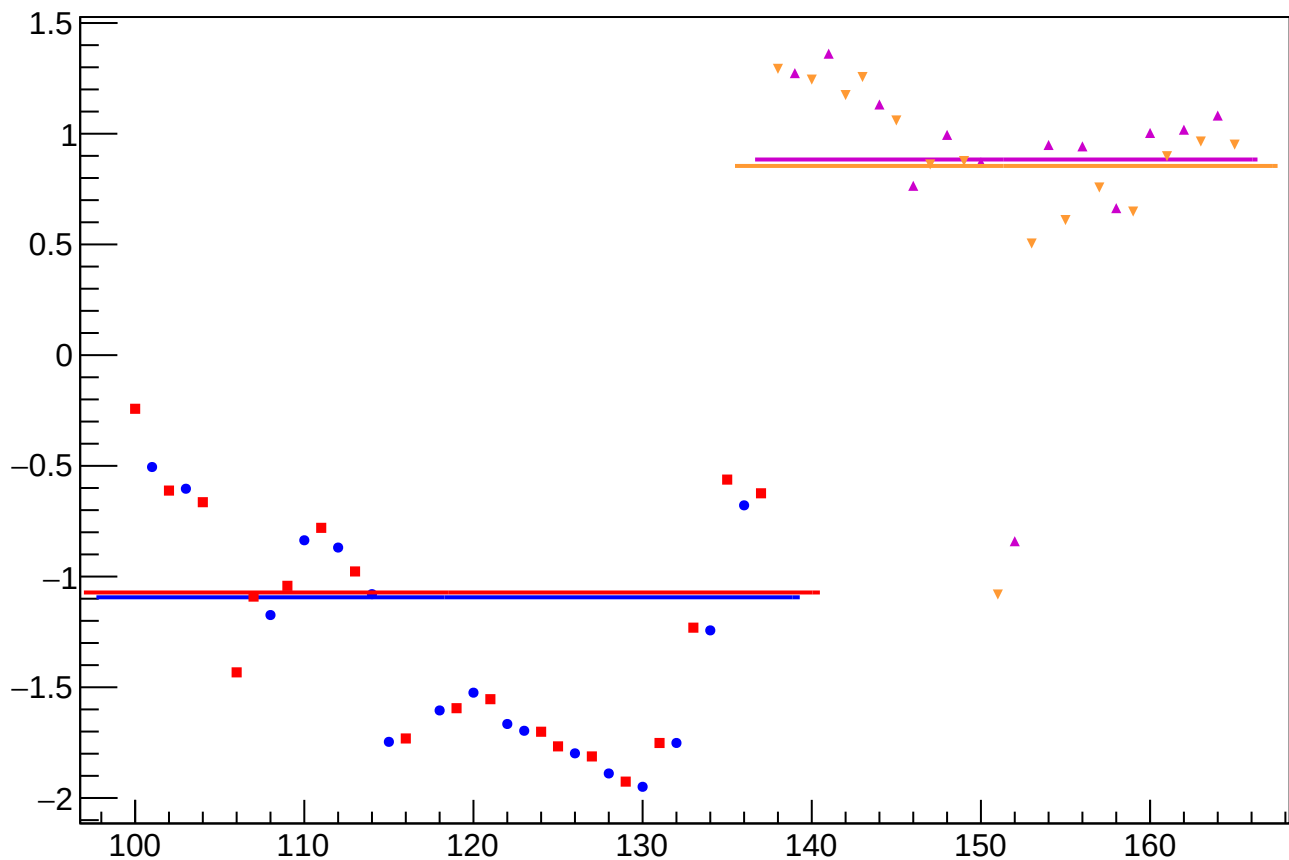
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.013+/-0.000 χ^2/NDF : 1475803.2/29

Out: 0.013+/-0.000 χ^2/NDF : 1402646.7/33

All: 0.013+/-0.000 χ^2/NDF : 2878533.6/63

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.854+/-0.000 χ^2/NDF : 124470197184.3/14

Right Out: -1.072+/-0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.884+/-0.000 χ^2/NDF : 145610756824.5/12

Left: 0.869+/-0.000 χ^2/NDF : 270373399725.8/27

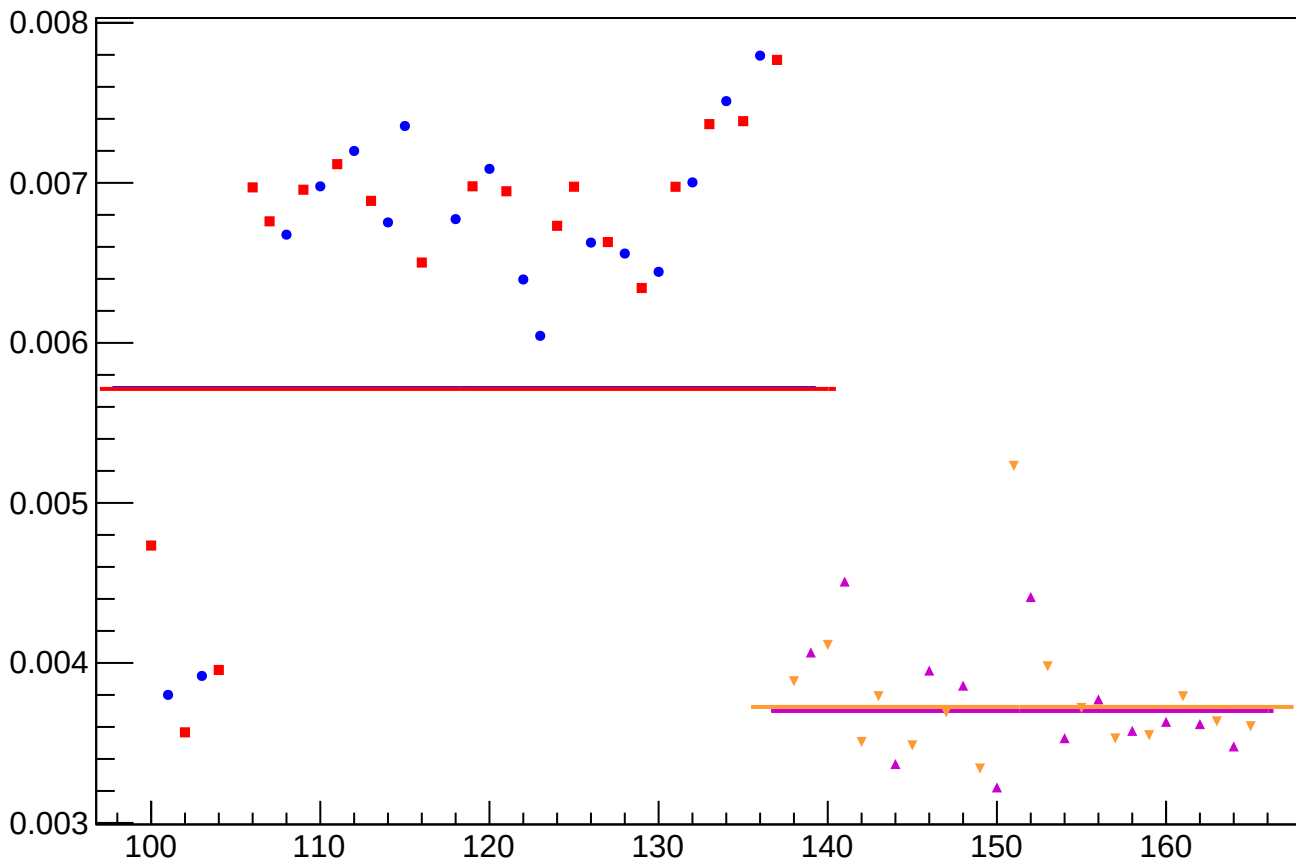
Right: -1.083+/-0.000 χ^2/NDF : 102900070258.1/35

In: 0.463+/-0.000 χ^2/NDF : 760766031624.5/29

Out: 0.451+/-0.000 χ^2/NDF : 725418205169.1/33

All: 0.457+/-0.000 χ^2/NDF : 1486249633301.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 837775.0/16

Left Out: 0.004+/-0.000 χ^2/NDF :160835.1/14

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :168858.5/12

Left: 0.004+/-0.000 χ^2/NDF : 330132.3/27

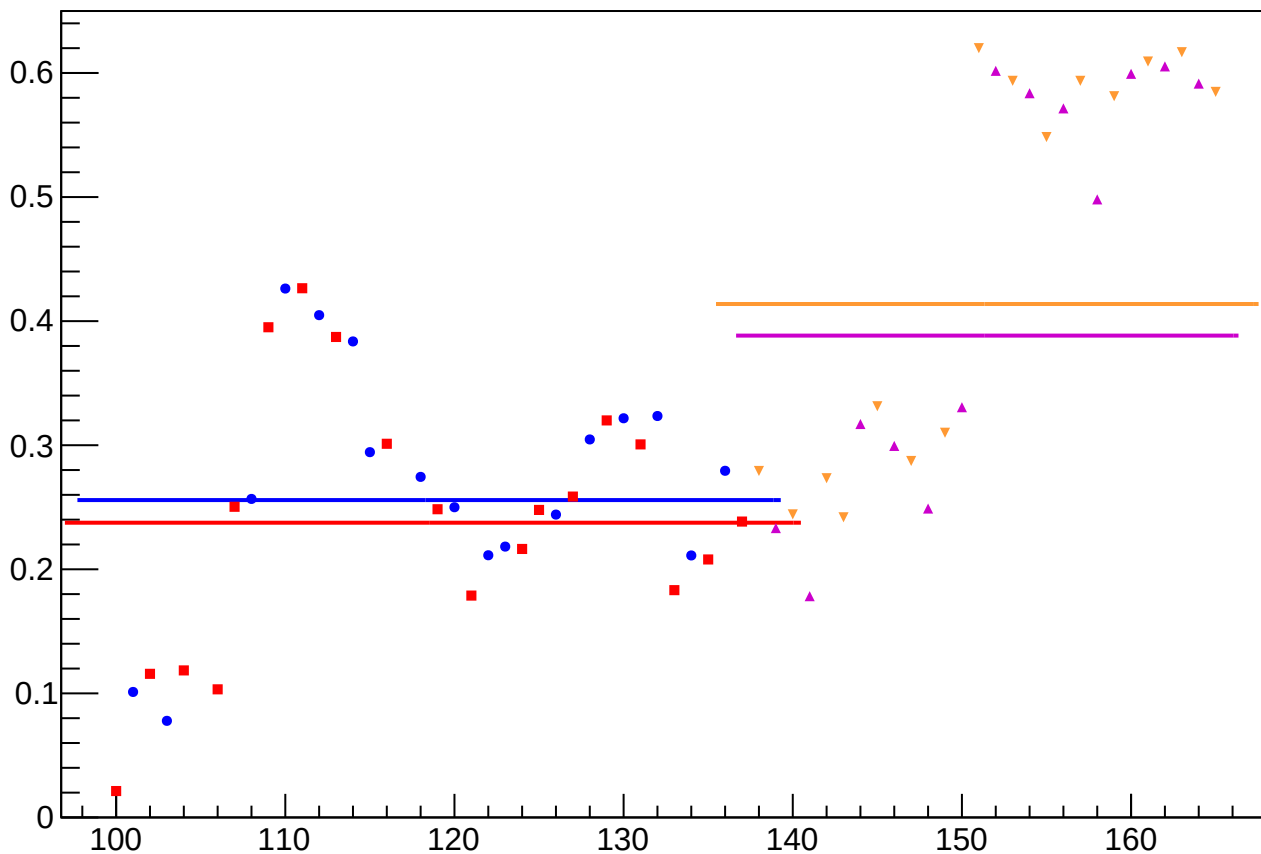
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2171212.5/29

Out: 0.004+/-0.000 χ^2/NDF :2264220.1/33

All: 0.004+/-0.000 χ^2/NDF : 4435570.0/63

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.414+/-0.000 χ^2/NDF : 75249535084.2/14

Right Out: 0.238+/-0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.388+/-0.000 χ^2/NDF : 66766521798.4/12

Left: 0.402+/-0.000 χ^2/NDF : 142935188098.8/27

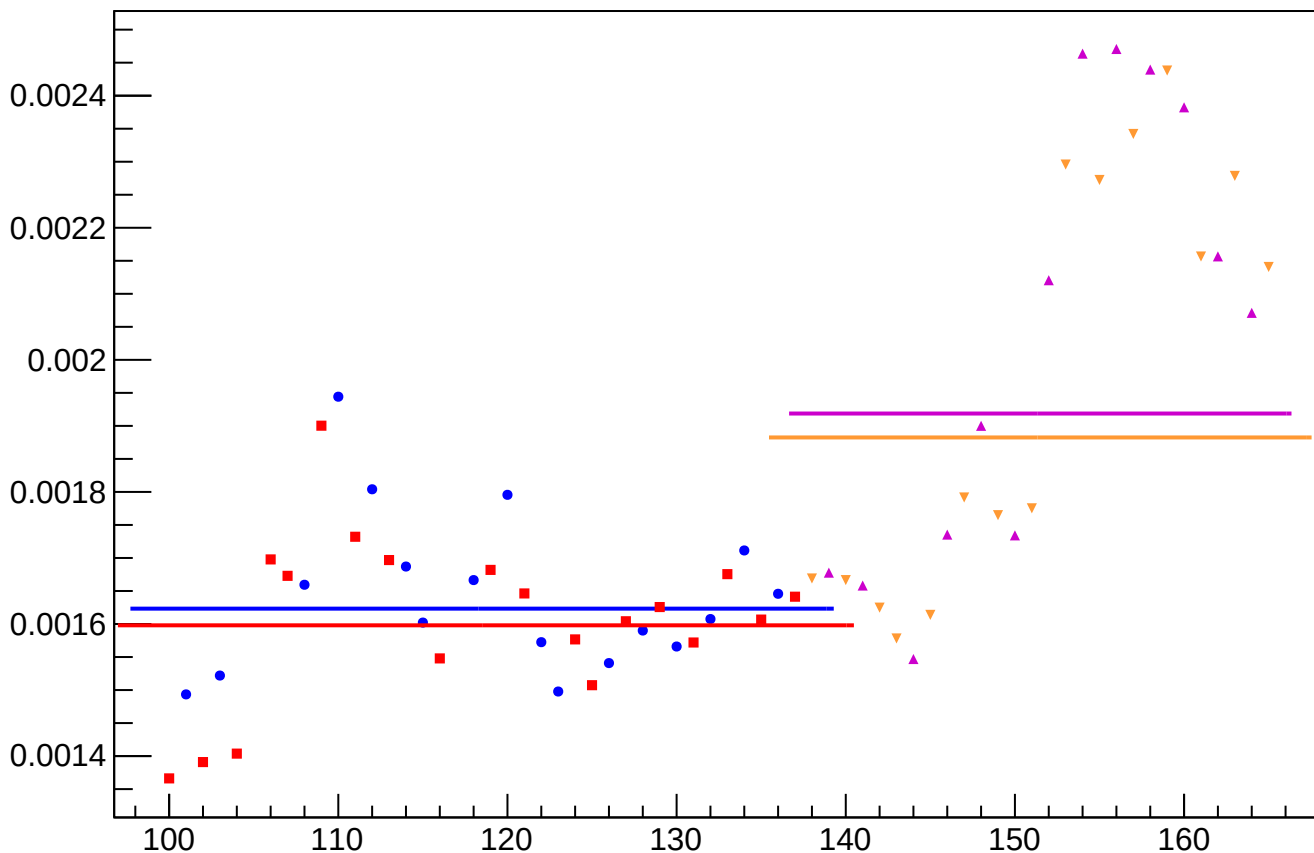
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.325+/-0.000 χ^2/NDF : 110543233173.6/29

Out: 0.330+/-0.000 χ^2/NDF : 145844668225.9/33

All: 0.328+/-0.000 χ^2/NDF : 256466776877.0

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52468.7/16

Left Out: 0.002+/-0.000 χ^2/NDF : 508121.9/14

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF : 535060.3/12

Left: 0.002+/-0.000 χ^2/NDF : 1046901.8/27

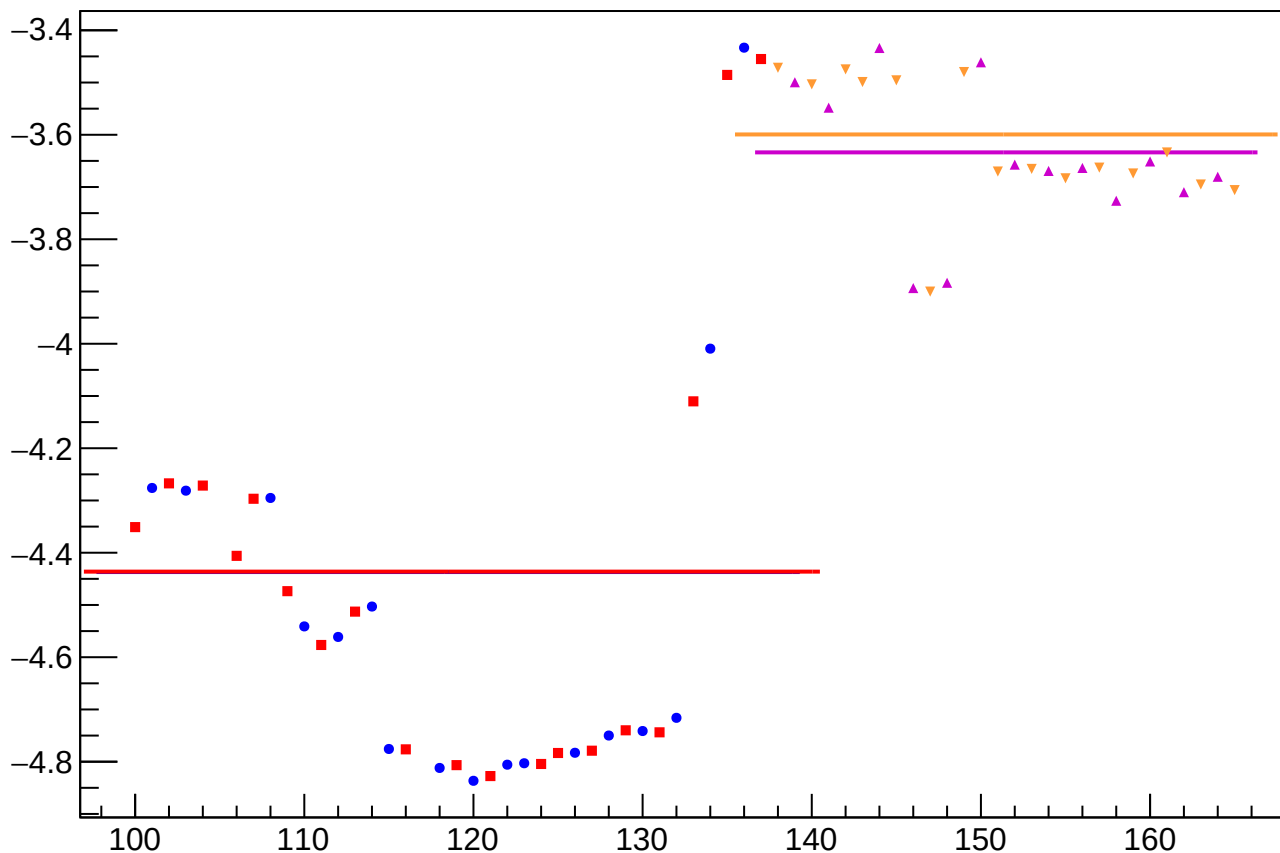
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 810197.6/29

Out: 0.002+/-0.000 χ^2/NDF : 830825.4/33

All: 0.002+/-0.000 χ^2/NDF : 1645768.1/63

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2 /NDF: 392812415429.0/16

Left Out: -3.599 $\pm$ 0.000 χ^2 /NDF: 32363984154.4/14

Right Out: -4.436 $\pm$ 0.000 χ^2 /NDF: 325183860699.4/18

Left In: -3.634 $\pm$ 0.000 χ^2 /NDF: 42698701904.6/12

Left: -3.616 $\pm$ 0.000 χ^2 /NDF: 76383565214.3/27

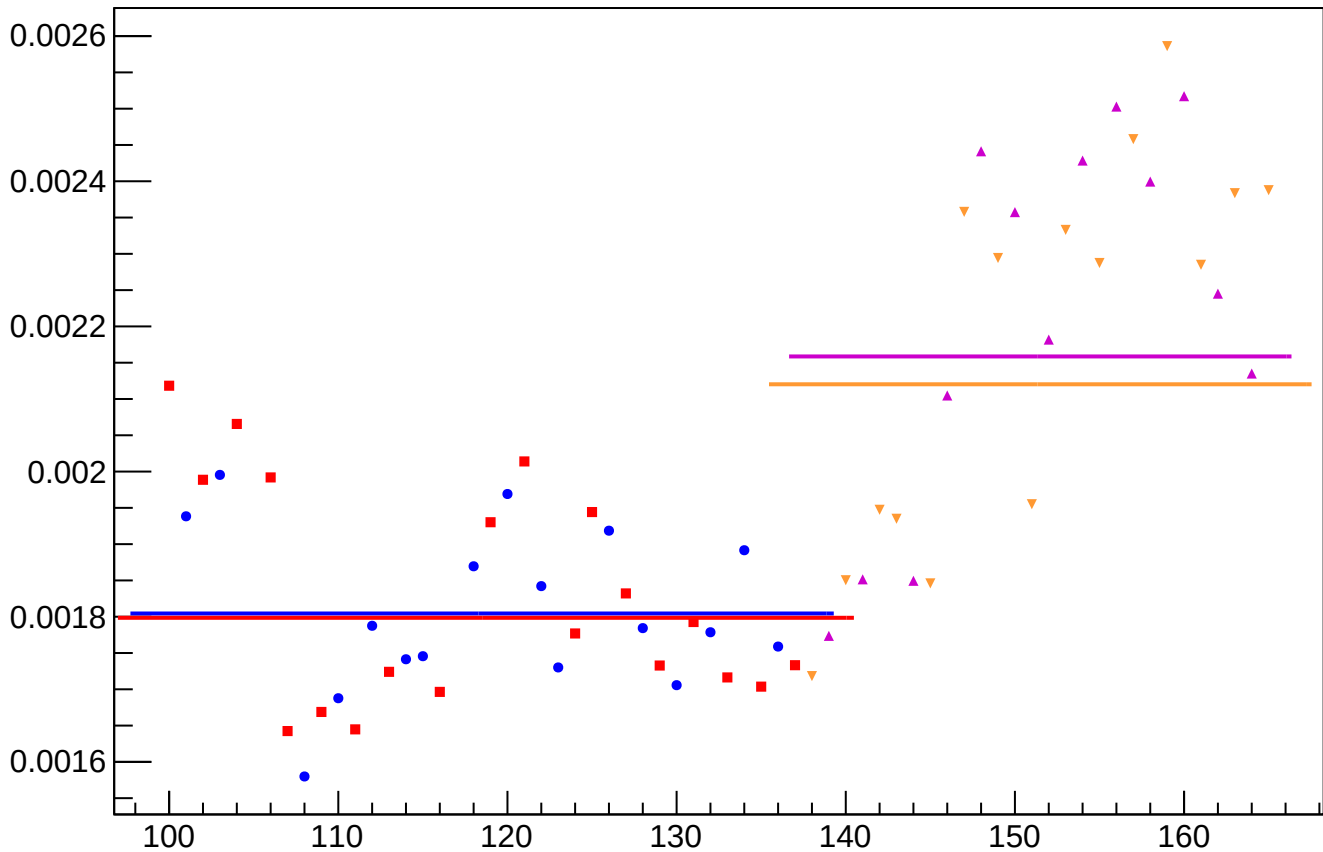
Right: -4.437 $\pm$ 0.000 χ^2 /NDF: 717996921060.6/35

In: -4.022 $\pm$ 0.000 χ^2 /NDF: 1101104256906.9/29

Out: -3.995 $\pm$ 0.000 χ^2 /NDF: 1141018582370.2/33

All: -4.008 $\pm$ 0.000 χ^2 /NDF: 2243686276915

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 49103.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :338036.6/14

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF :289590.1/12

Left: 0.002+/-0.000 χ^2/NDF : 630926.1/27

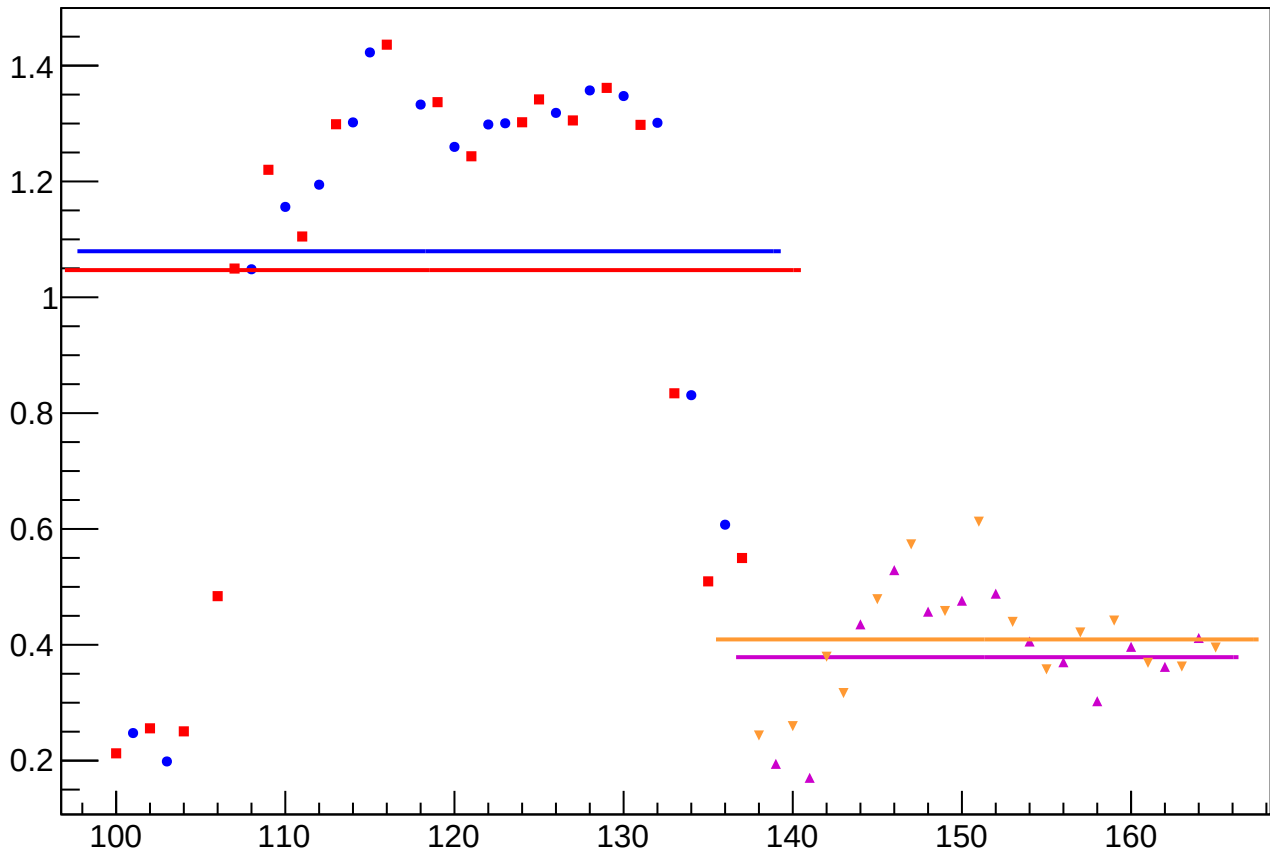
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :597491.7/29

Out: 0.002+/-0.000 χ^2/NDF :650692.2/33

All: 0.002+/-0.000 χ^2/NDF : 1249779.2/63

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.409 $\pm$ 0.000 χ^2 /NDF: 1216545243.6/14

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.379 $\pm$ 0.000 χ^2 /NDF: 1044694690.3/12

Left: 0.395 $\pm$ 0.000 χ^2 /NDF: 2314576131.6/27

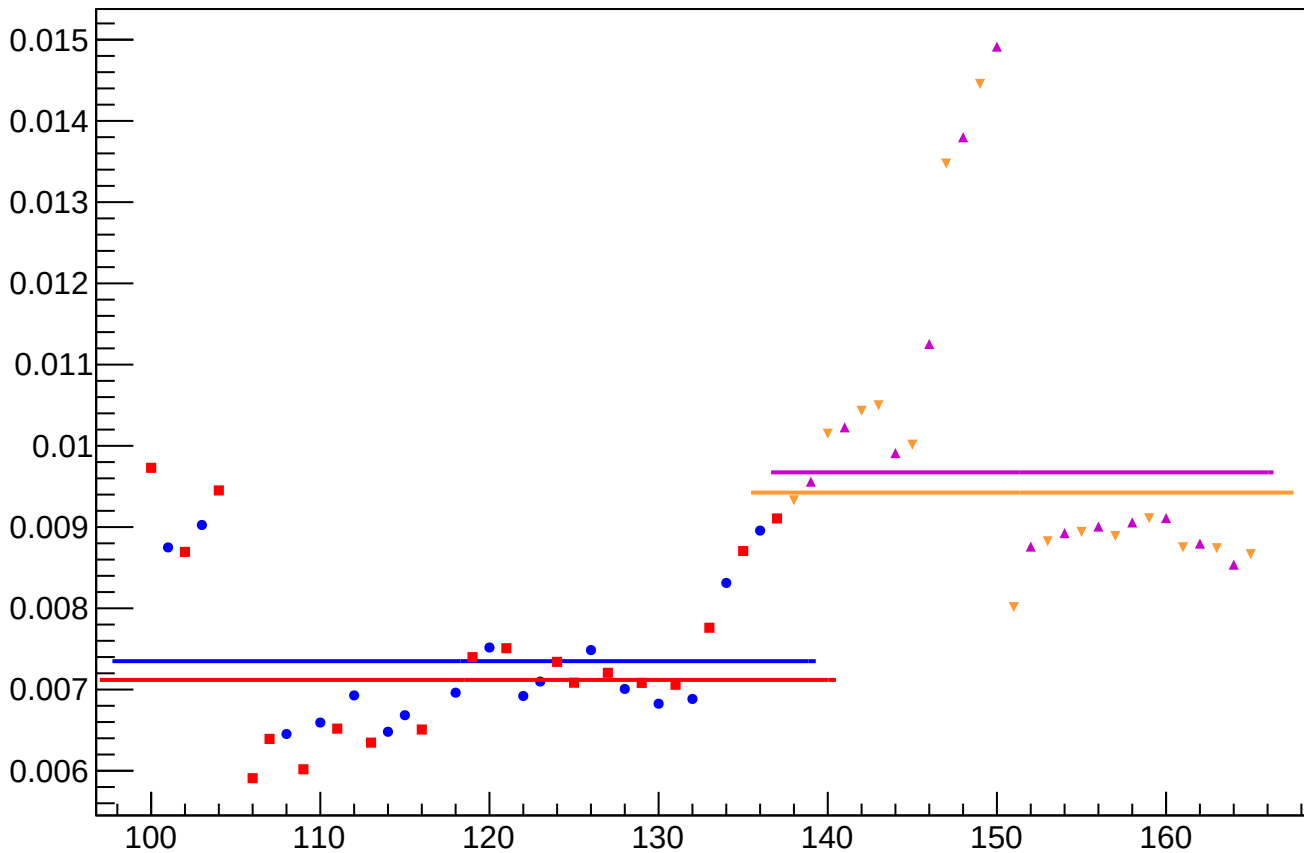
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.753 $\pm$ 0.000 χ^2 /NDF: 46587057746.6/29

Out: 0.748 $\pm$ 0.000 χ^2 /NDF: 47143599352.0/33

All: 0.750 $\pm$ 0.000 χ^2 /NDF: 93733490643.6/66

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.009+/-0.000 χ^2/NDF : 465425.7/14

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.010+/-0.000 χ^2/NDF : 481349.8/12

Left: 0.010+/-0.000 χ^2/NDF : 953831.5/27

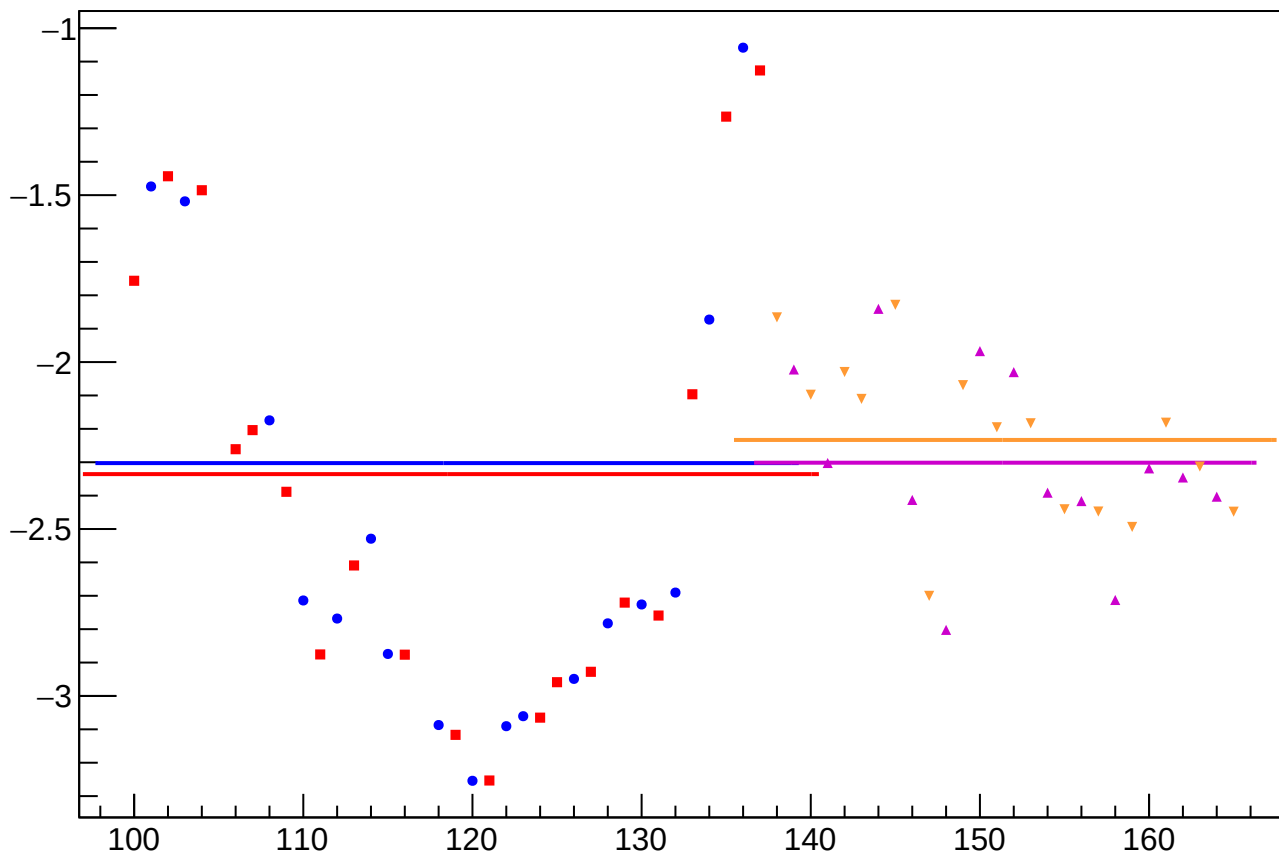
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.008+/-0.000 χ^2/NDF : 1278290.3/29

Out: 0.008+/-0.000 χ^2/NDF : 1410905.6/33

All: 0.008+/-0.000 χ^2/NDF : 2702407.4/63

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.233+/-0.000 χ^2/NDF : 7359959696.8/14

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.301+/-0.000 χ^2/NDF : 8508427985.3/12

Left: -2.265+/-0.000 χ^2/NDF : 16191500633.9/27

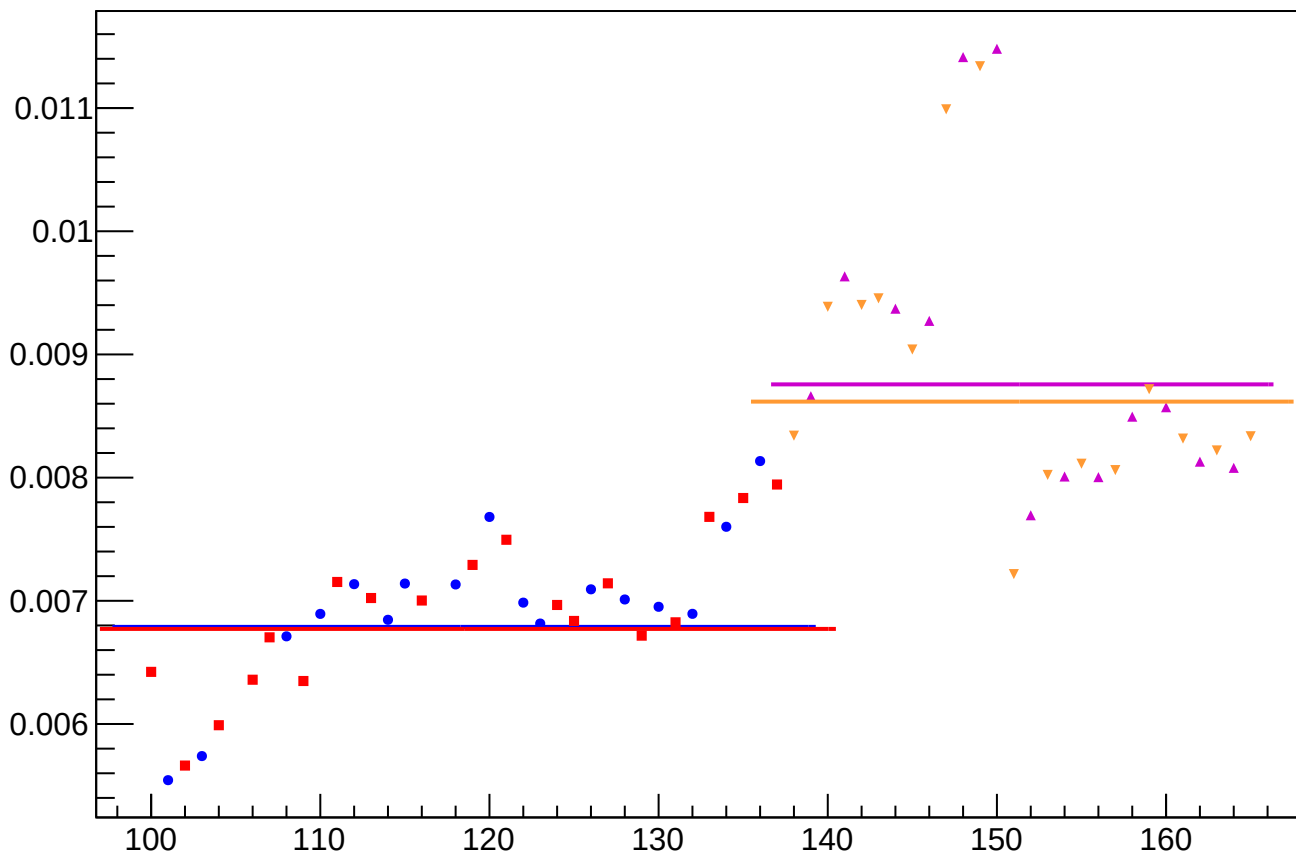
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.302+/-0.000 χ^2/NDF : 82264437858.1/29

Out: -2.286+/-0.000 χ^2/NDF : 72646396975.5/33

All: -2.293+/-0.000 χ^2/NDF : 154949649336.2

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 286185.6/14

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 290217.8/12

Left: 0.009+/-0.000 χ^2/NDF : 579125.6/27

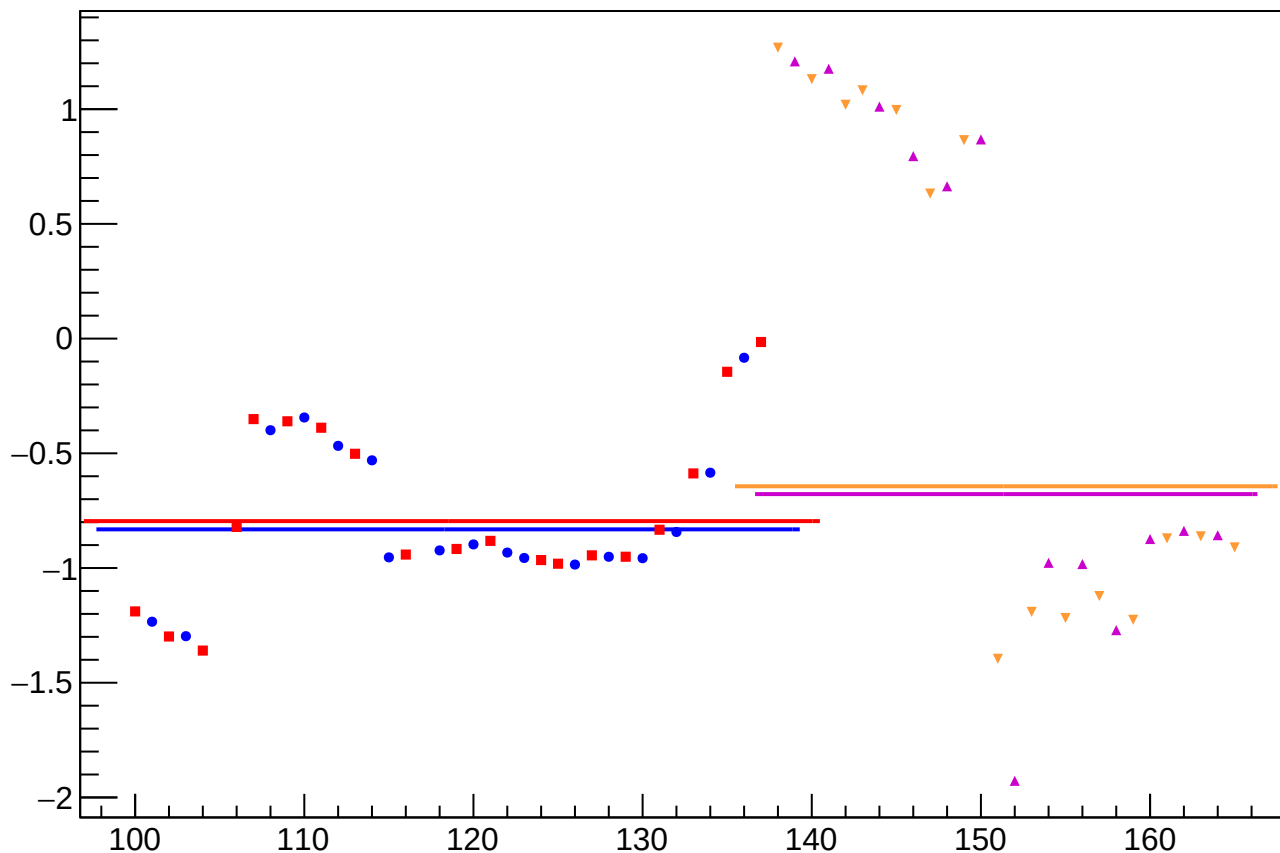
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF : 989461.8/29

Out: 0.008+/-0.000 χ^2/NDF : 921327.3/33

All: 0.008+/-0.000 χ^2/NDF : 1911712.9/63

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.660+/-0.000

χ^2/NDF : 229085445068.7/27

Left Out: -0.644+/-0.000

χ^2/NDF : 110985802196.3/14

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

In: -0.724+/-0.000

χ^2/NDF : 125646355888.7/29

Out: -0.688+/-0.000

χ^2/NDF : 119777259432.2/33

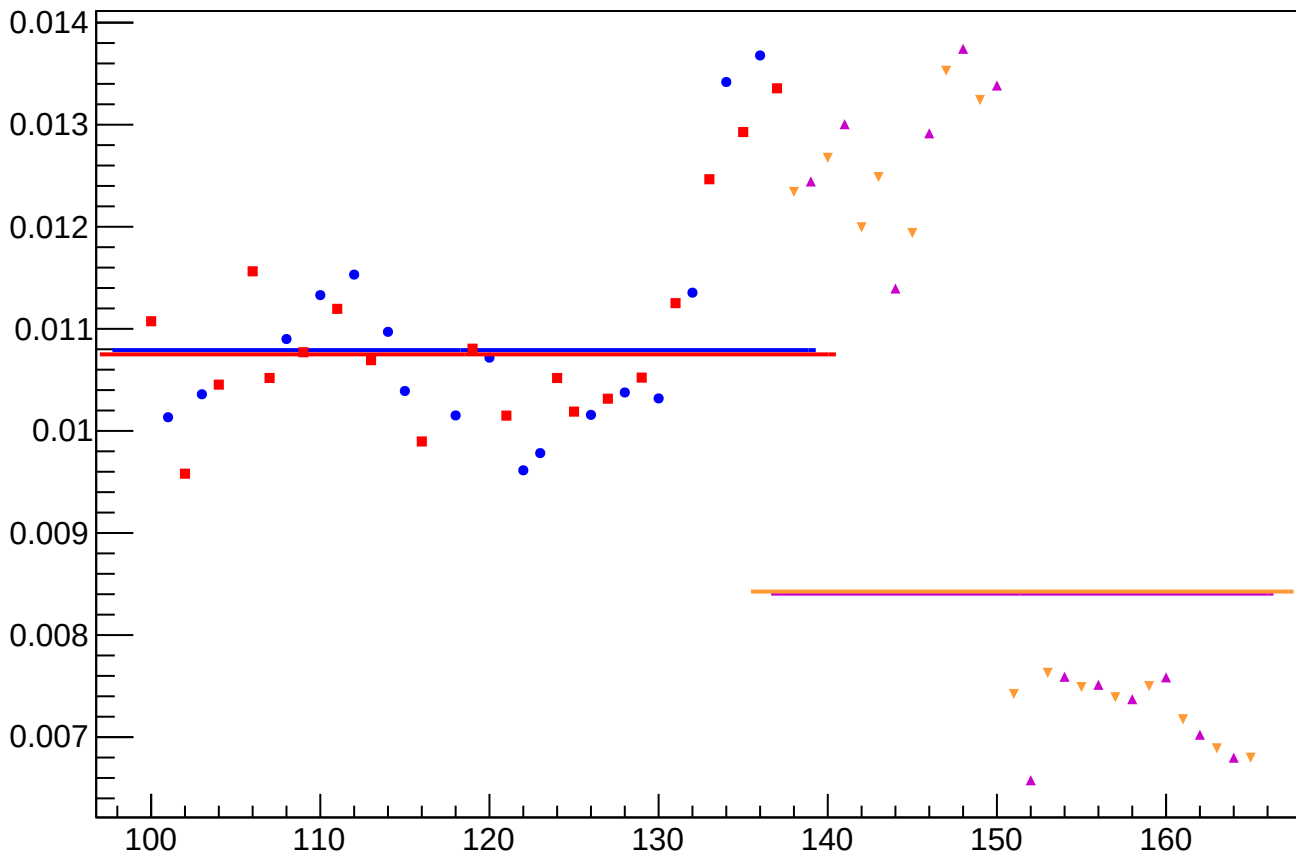
Left In: -0.678+/-0.000

χ^2/NDF : 118019779844.7/12

All: -0.705+/-0.000

χ^2/NDF : 245545061170.0

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :1396672.1/14

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF :1462982.8/12

Left: 0.008+/-0.000 χ^2/NDF : 2859713.9/27

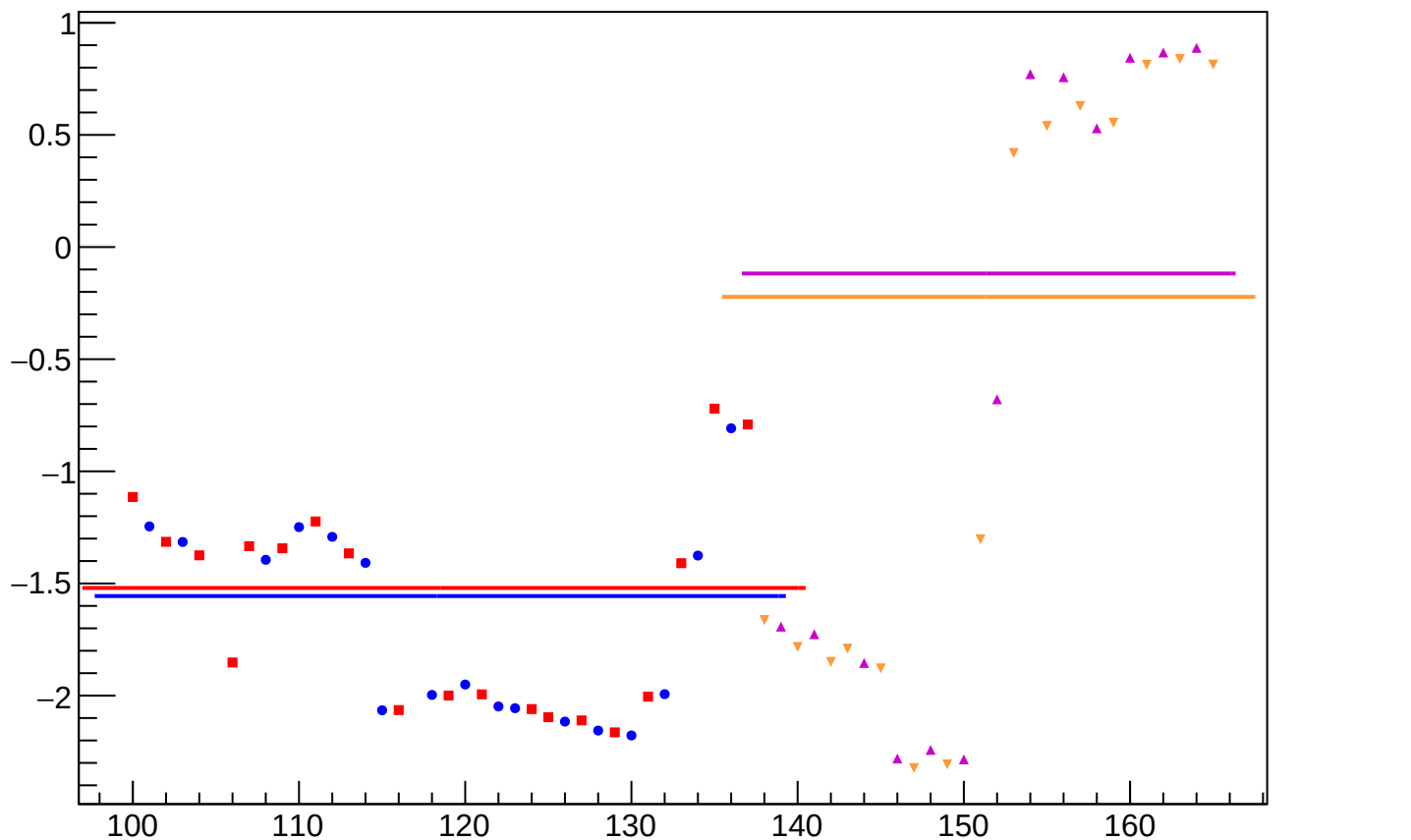
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2039238.3/29

Out: 0.009+/-0.000 χ^2/NDF :1941311.8/33

All: 0.009+/-0.000 χ^2/NDF : 3980559.9/63

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: -0.222+/-0.000 χ^2/NDF : 1891826708825.5/14

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: -0.118+/-0.000 χ^2/NDF : 1788307578107.4/12

Left: -0.172+/-0.000 χ^2/NDF : 3686789190069.5/27

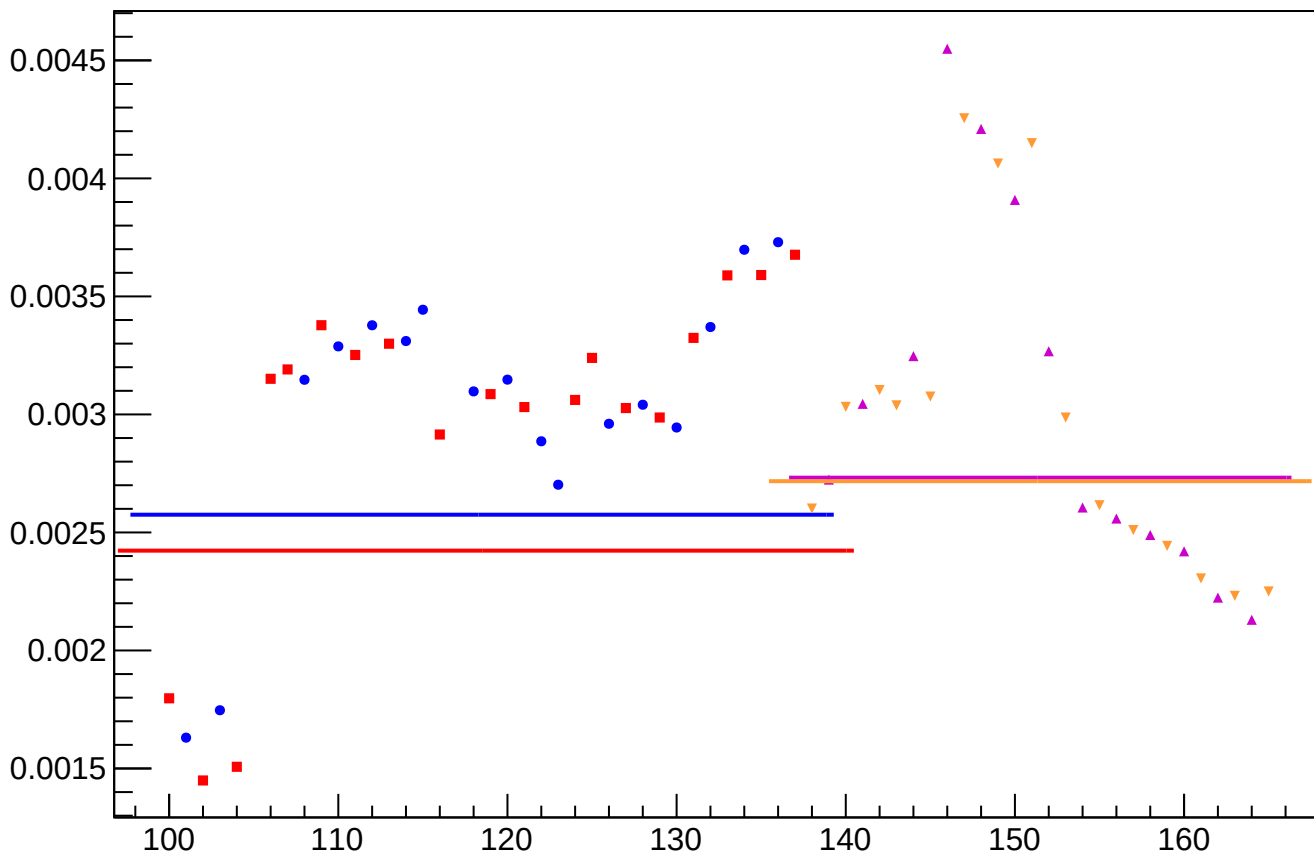
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.723+/-0.000 χ^2/NDF : 2965937183217.1/29

Out: -0.778+/-0.000 χ^2/NDF : 2960042008472.2/33

All: -0.752+/-0.000 χ^2/NDF : 5929258264334

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013833.9/16

Left Out: 0.003+/-0.000 χ^2/NDF : 693797.3/14

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 756123.3/12

Left: 0.003+/-0.000 χ^2/NDF : 1450193.3/27

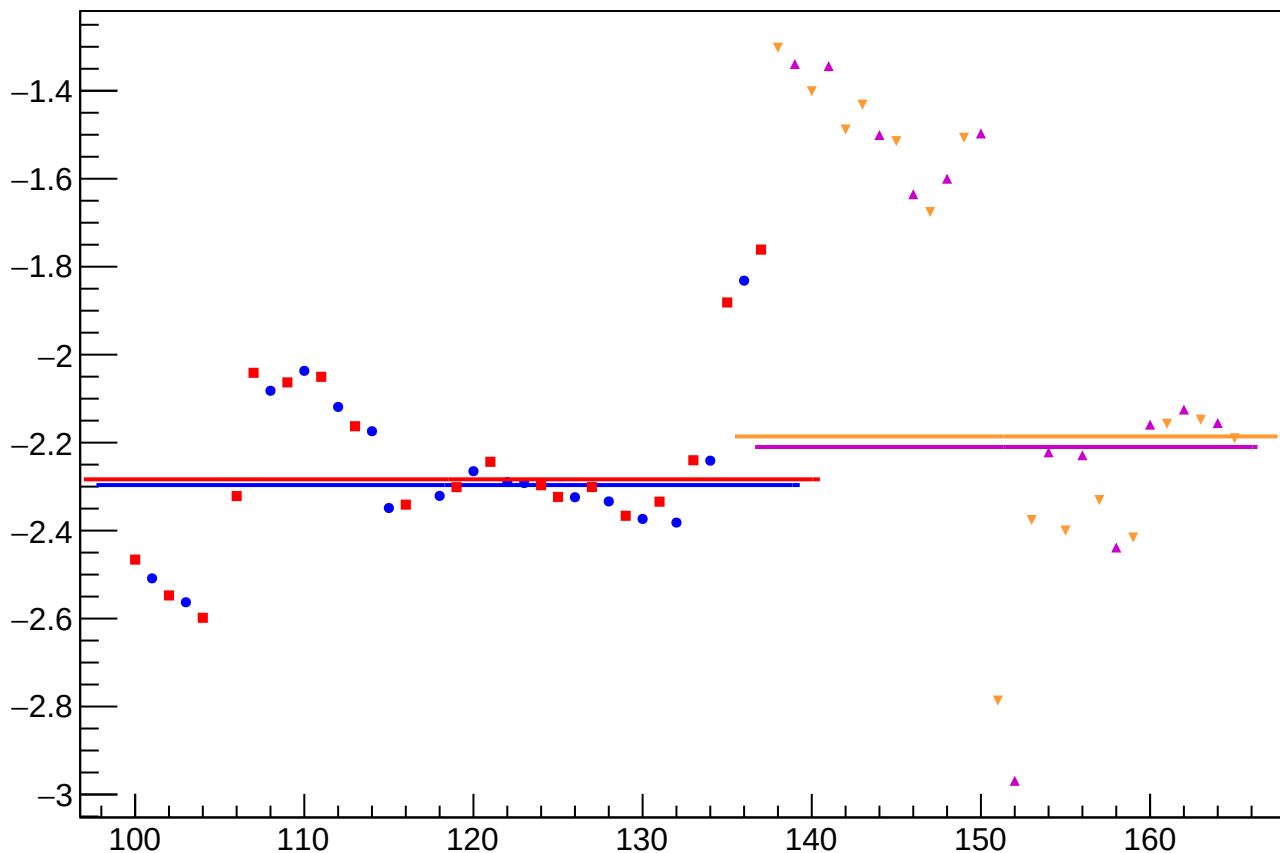
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF : 1794290.0/29

Out: 0.003+/-0.000 χ^2/NDF : 2279487.6/33

All: 0.003+/-0.000 χ^2/NDF : 4085797.4/63

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000

χ^2/NDF : 5782980938.4/16

Left: -2.198+/-0.000

χ^2/NDF : 117358092020.3/27

Left Out: -2.186+/-0.000

χ^2/NDF : 51016642322.4/14

Right: -2.290+/-0.000

χ^2/NDF : 12344935761.7/35

Right Out: -2.283+/-0.000

χ^2/NDF : 6548716896.9/18

In: -2.237+/-0.000

χ^2/NDF : 72809406757.5/29

Out: -2.216+/-0.000

χ^2/NDF : 58623552313.5/33

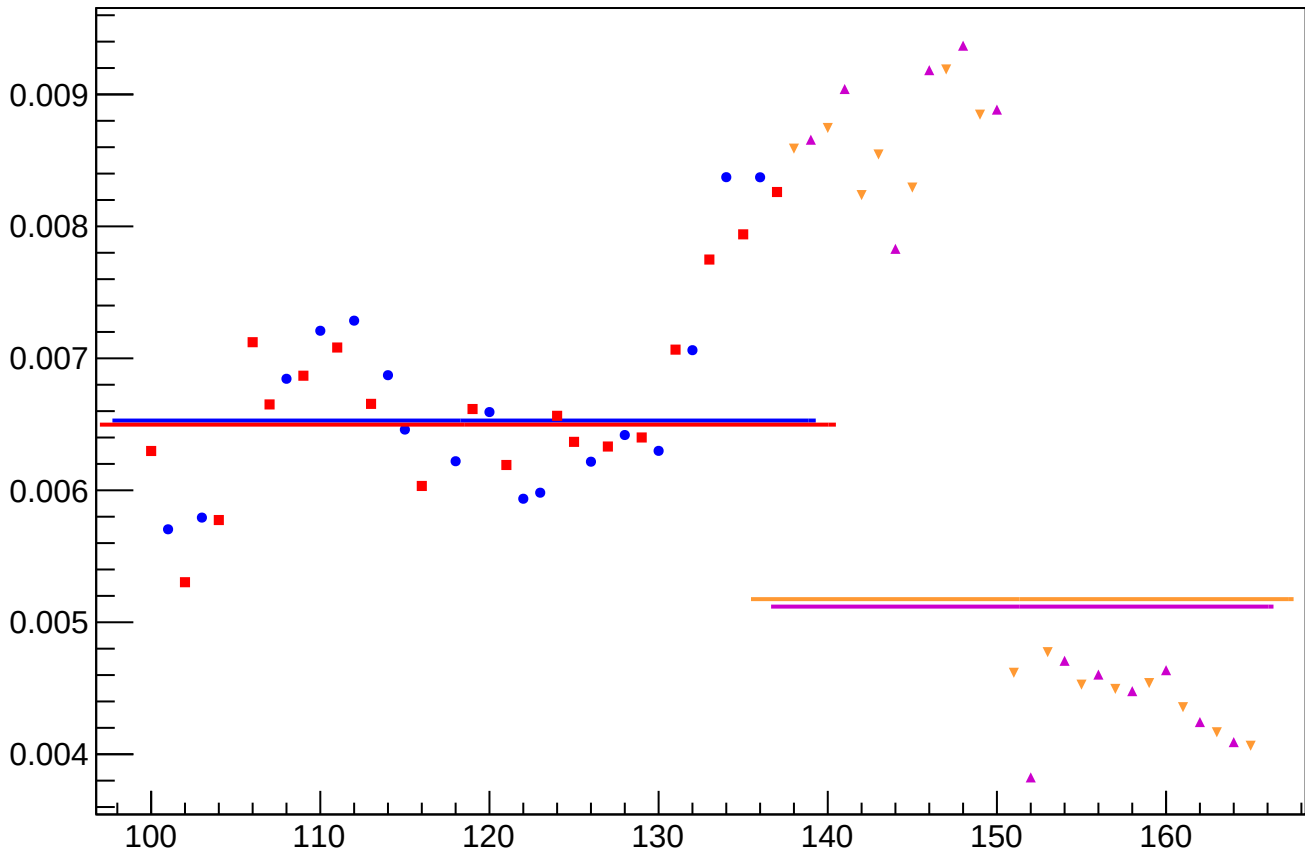
Left In: -2.210+/-0.000

χ^2/NDF : 66240668365.7/12

All: -2.226+/-0.000

χ^2/NDF : 131541940553.5

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.005+/-0.000 χ^2/NDF : 1902729.7/14

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 2021843.6/12

Left: 0.005+/-0.000 χ^2/NDF : 3925697.2/27

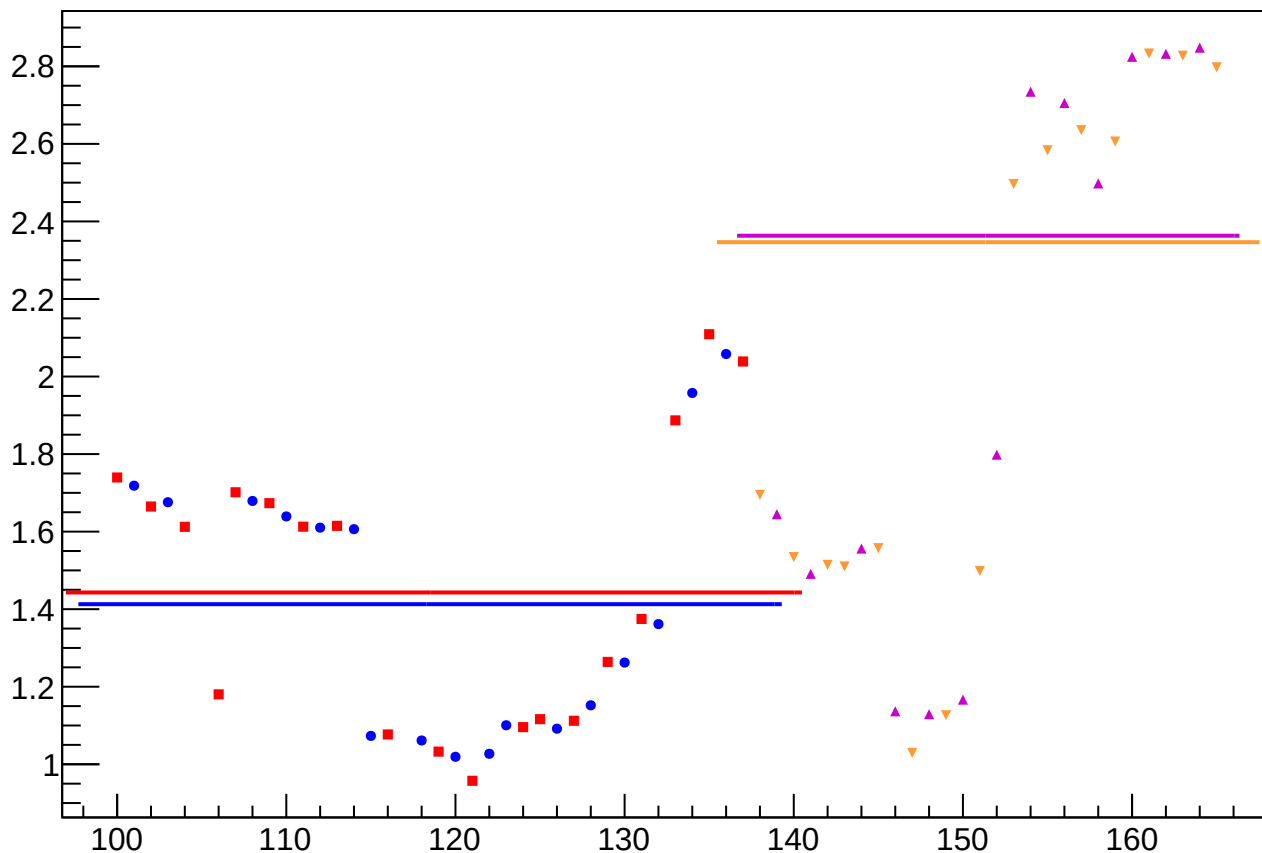
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.006+/-0.000 χ^2/NDF : 2615345.5/29

Out: 0.006+/-0.000 χ^2/NDF : 2456296.8/33

All: 0.006+/-0.000 χ^2/NDF : 5072029.7/63

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.347+/-0.000 χ^2/NDF : 208819655350.8/14

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.363+/-0.000 χ^2/NDF : 206617640417.5/12

Left: 2.354+/-0.000 χ^2/NDF : 415528390593.5/27

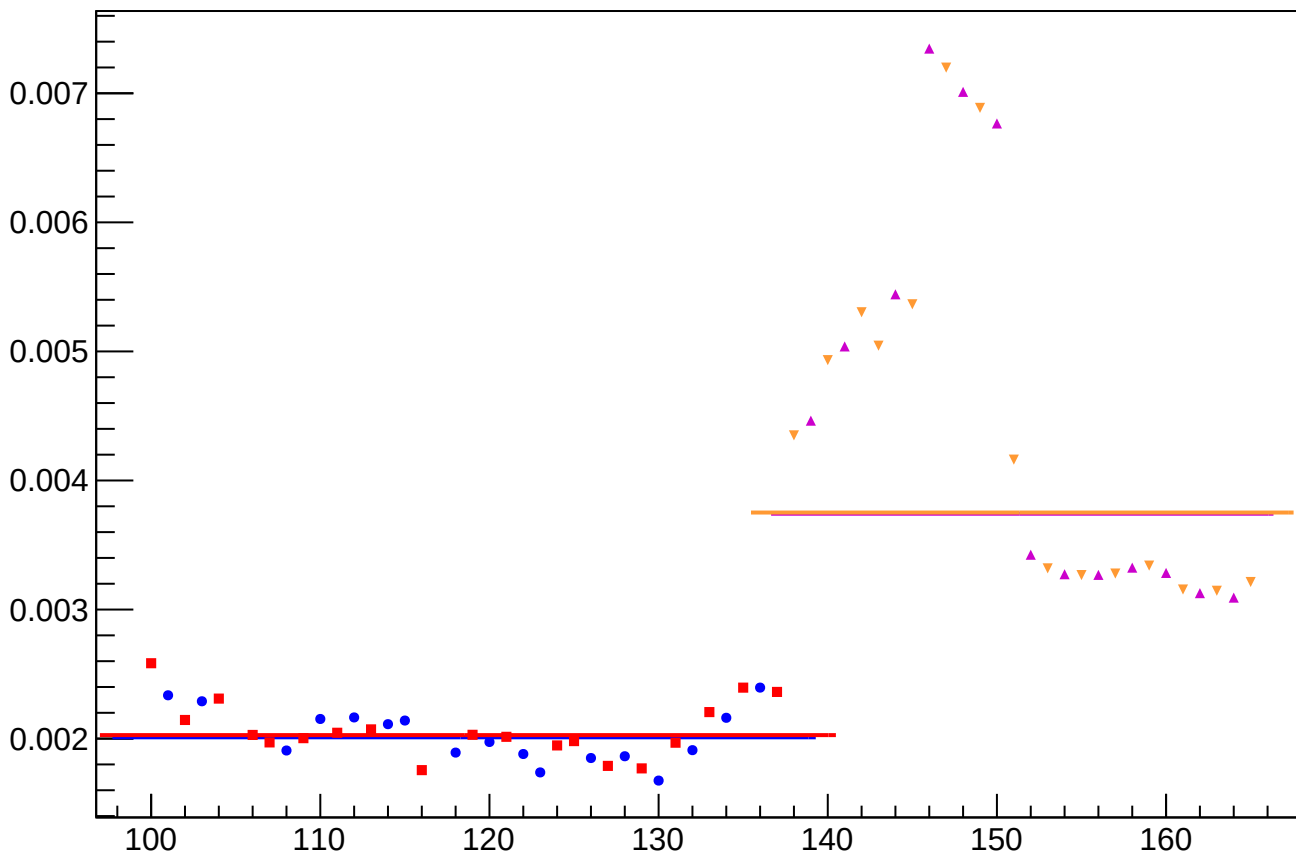
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.690+/-0.000 χ^2/NDF : 782006335486.2/29

Out: 1.717+/-0.000 χ^2/NDF : 772517141616.8/33

All: 1.704+/-0.000 χ^2/NDF : 1555297512677.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 152530.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :1196864.1/14

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1384434.3/12

Left: 0.004+/-0.000 χ^2/NDF : 2581354.5/27

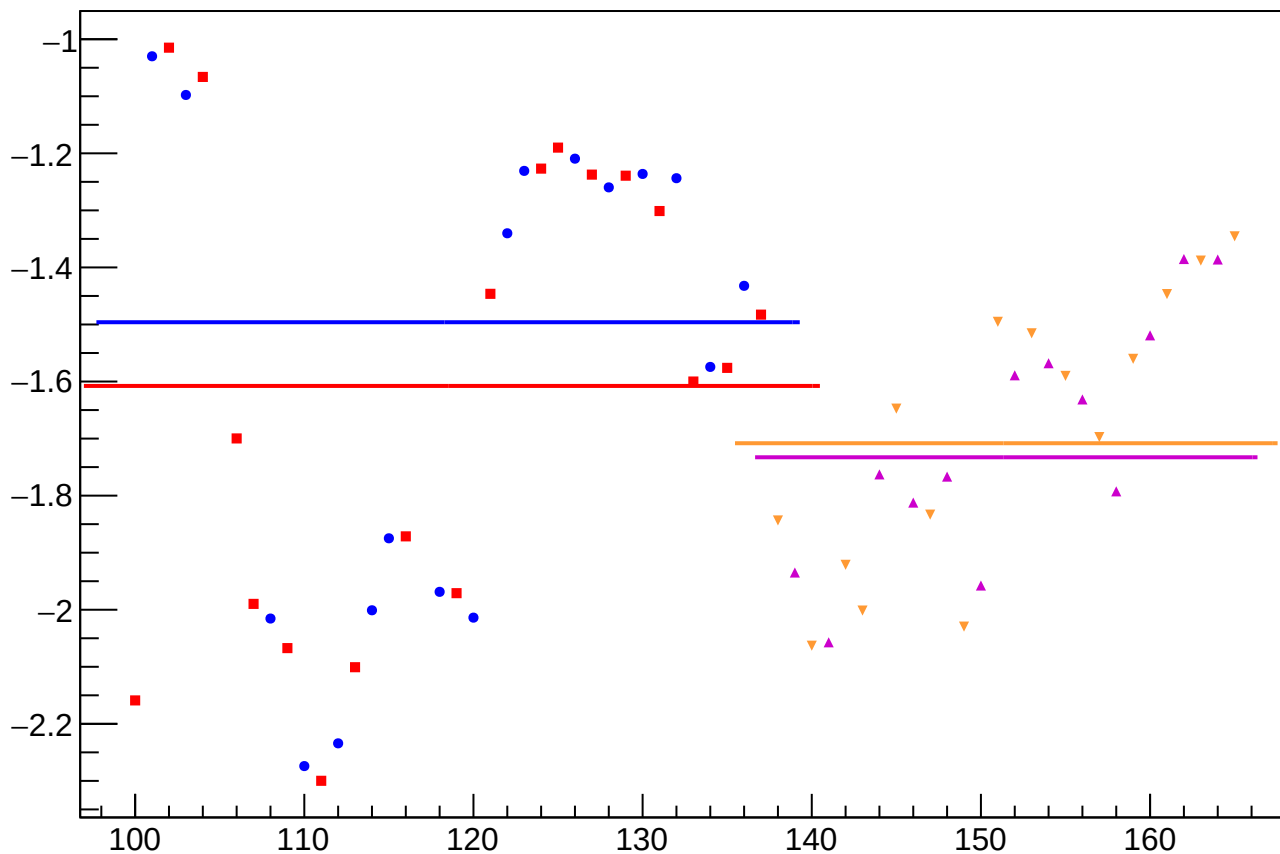
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4214112.1/29

Out: 0.003+/-0.000 χ^2/NDF :4146197.0/33

All: 0.003+/-0.000 χ^2/NDF : 8362811.7/63

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.708+/-0.000 χ^2/NDF : 15083860733.7/14

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.733+/-0.000 χ^2/NDF : 10243421274.3/12

Left: -1.720+/-0.000 χ^2/NDF : 25405613834.3/27

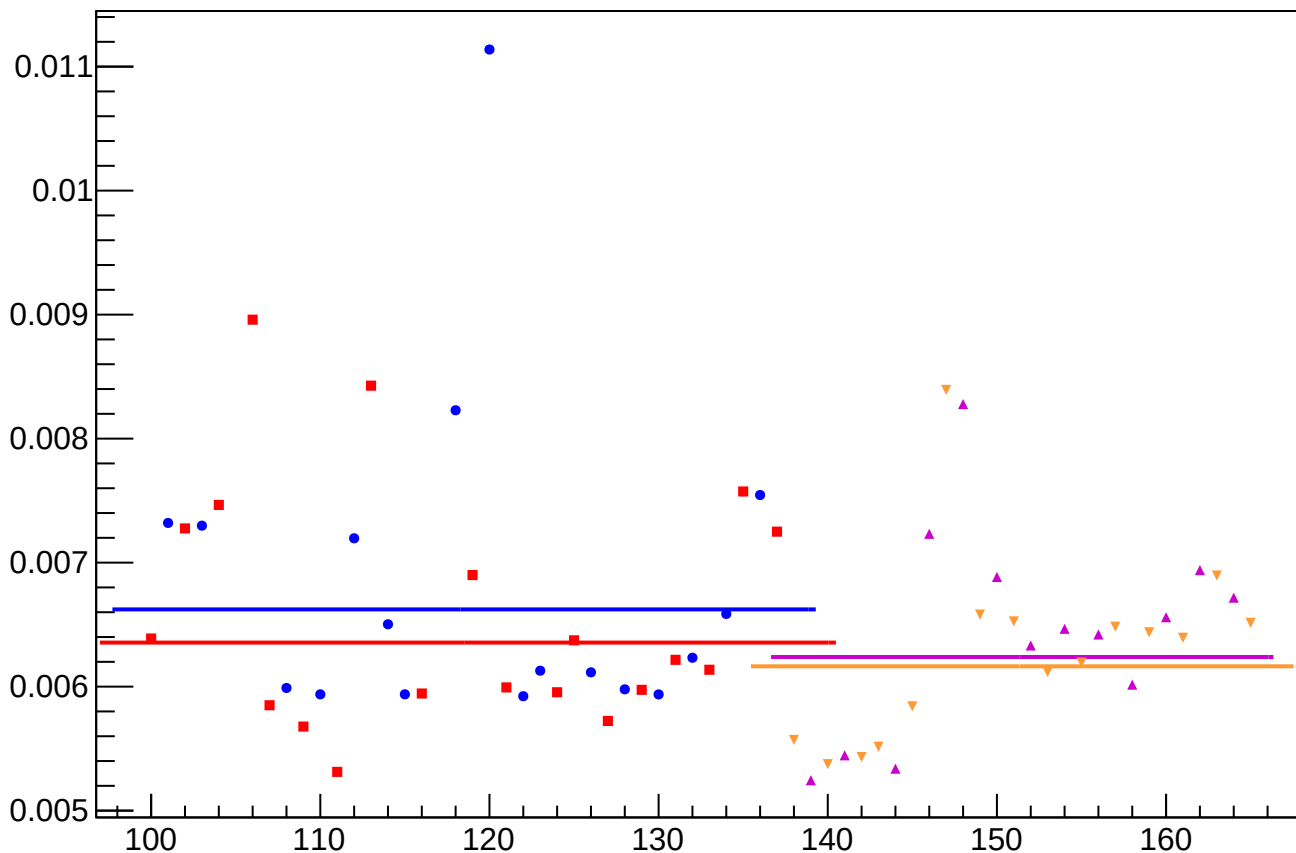
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.647+/-0.000 χ^2/NDF : 37735491385.3/29

Out: -1.671+/-0.000 χ^2/NDF : 43951427329.4/33

All: -1.660+/-0.000 χ^2/NDF : 81799432487.6/100

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :223381.2/14

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :286808.4/12

Left: 0.006+/-0.000 χ^2/NDF : 511649.7/27

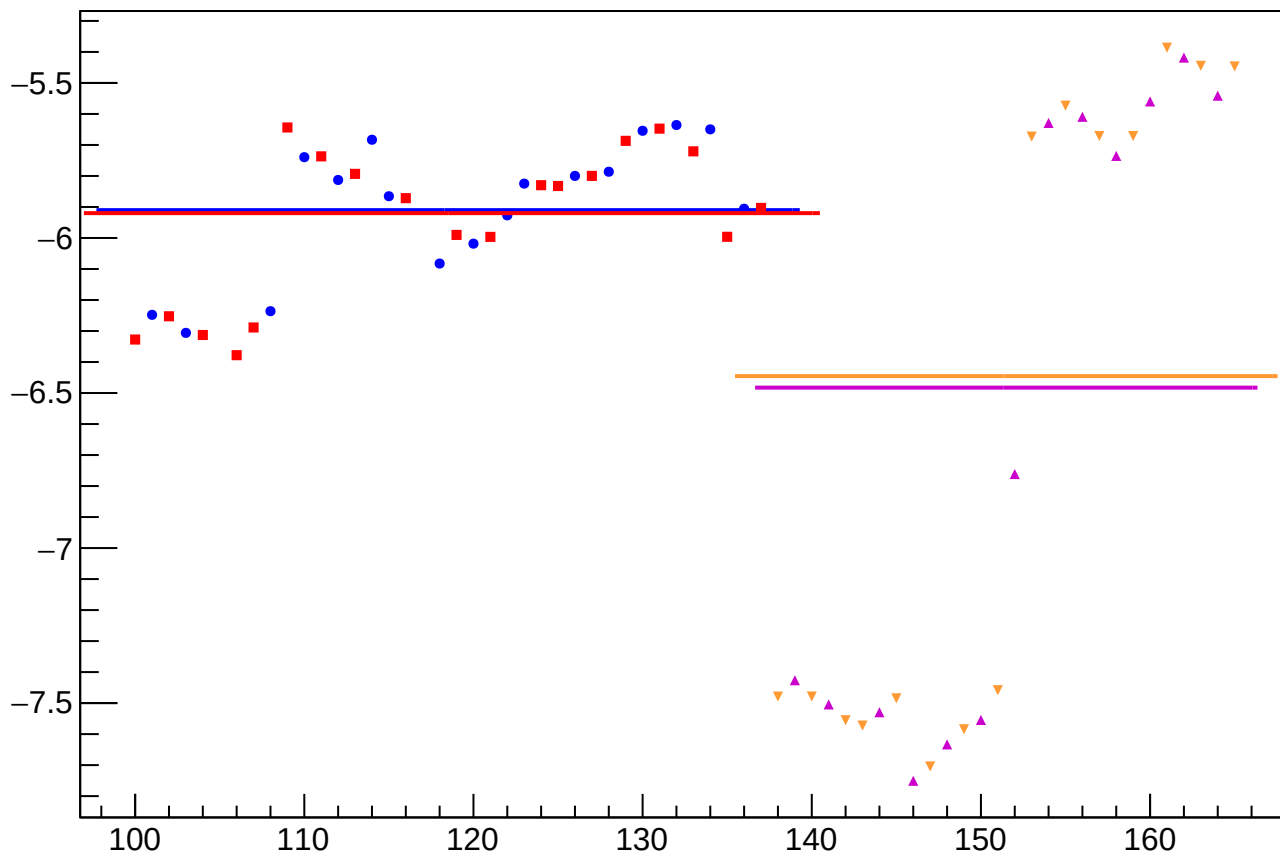
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :545548.6/29

Out: 0.006+/-0.000 χ^2/NDF :458733.0/33

All: 0.006+/-0.000 χ^2/NDF : 1012570.1/63

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.445+/-0.000 χ^2/NDF : 148095171505.1/14

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.483+/-0.000 χ^2/NDF : 117868837233.9/12

Left: -6.463+/-0.000 χ^2/NDF : 266062245444.7/27

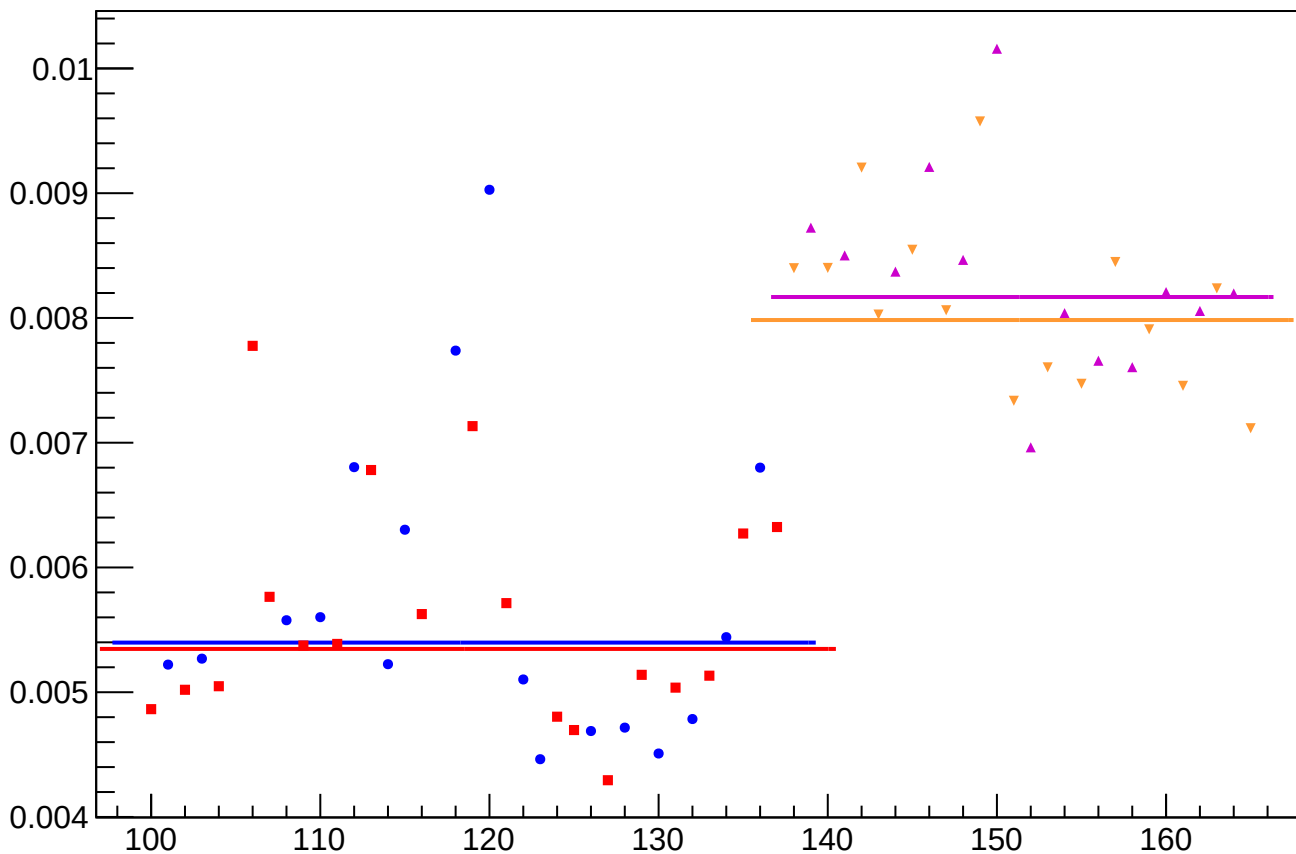
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.140+/-0.000 χ^2/NDF : 155667414301.4/29

Out: -6.132+/-0.000 χ^2/NDF : 185679605236.4/33

All: -6.136+/-0.000 χ^2/NDF : 341358376632.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :112149.6/14

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :141243.1/12

Left: 0.008+/-0.000 χ^2/NDF : 258252.6/27

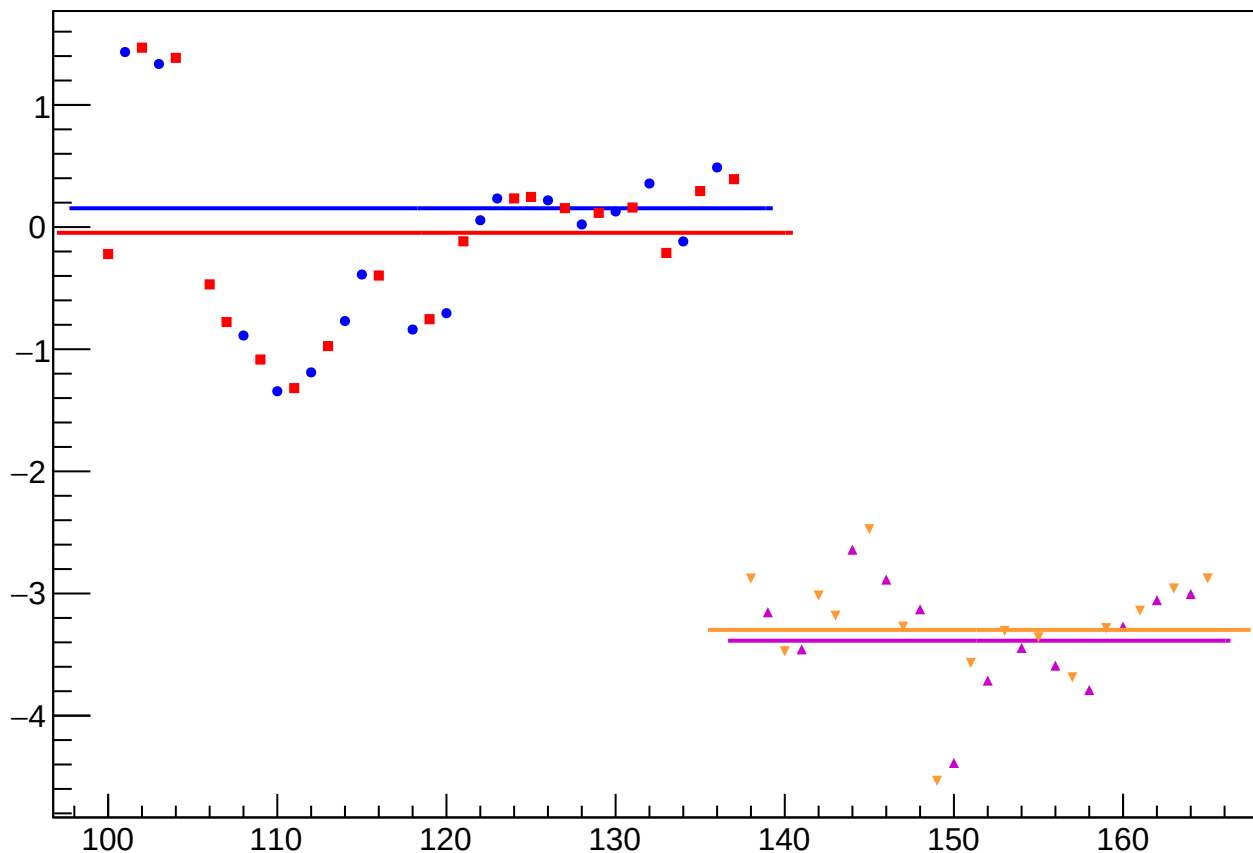
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1760686.1/29

Out: 0.006+/-0.000 χ^2/NDF :1609343.3/33

All: 0.006+/-0.000 χ^2/NDF : 3373508.1/63

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.298+/-0.000 χ^2/NDF : 7928781198.0/14

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.386+/-0.000 χ^2/NDF : 6848919002.6/12

Left: -3.340+/-0.000 χ^2/NDF : 14929179826.7/27

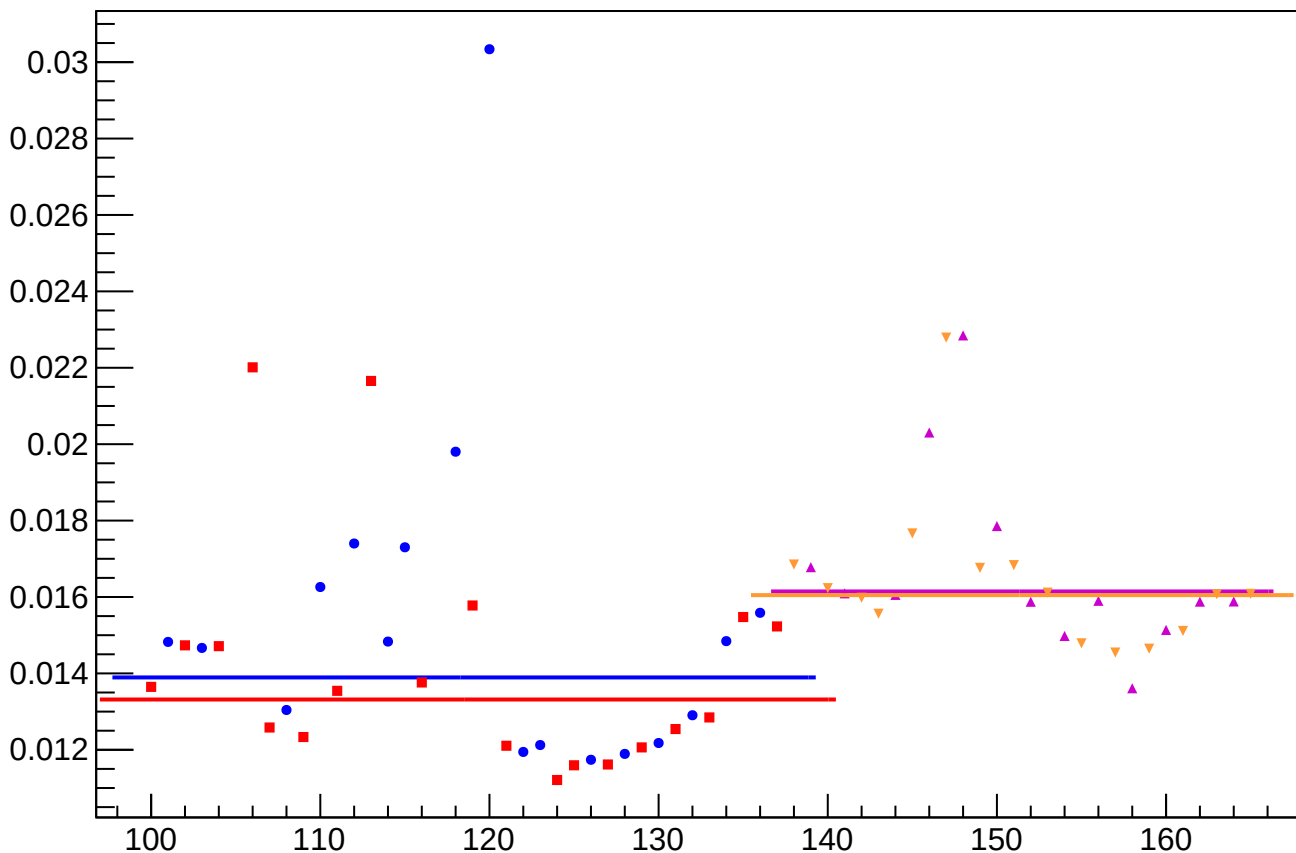
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -1.785+/-0.000 χ^2/NDF : 234392467355.0/29

Out: -1.765+/-0.000 χ^2/NDF : 232637724514.9/33

All: -1.774+/-0.000 χ^2/NDF : 467044142076.8

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :194154.2/14

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :274823.4/12

Left: 0.016+/-0.000 χ^2/NDF : 469337.4/27

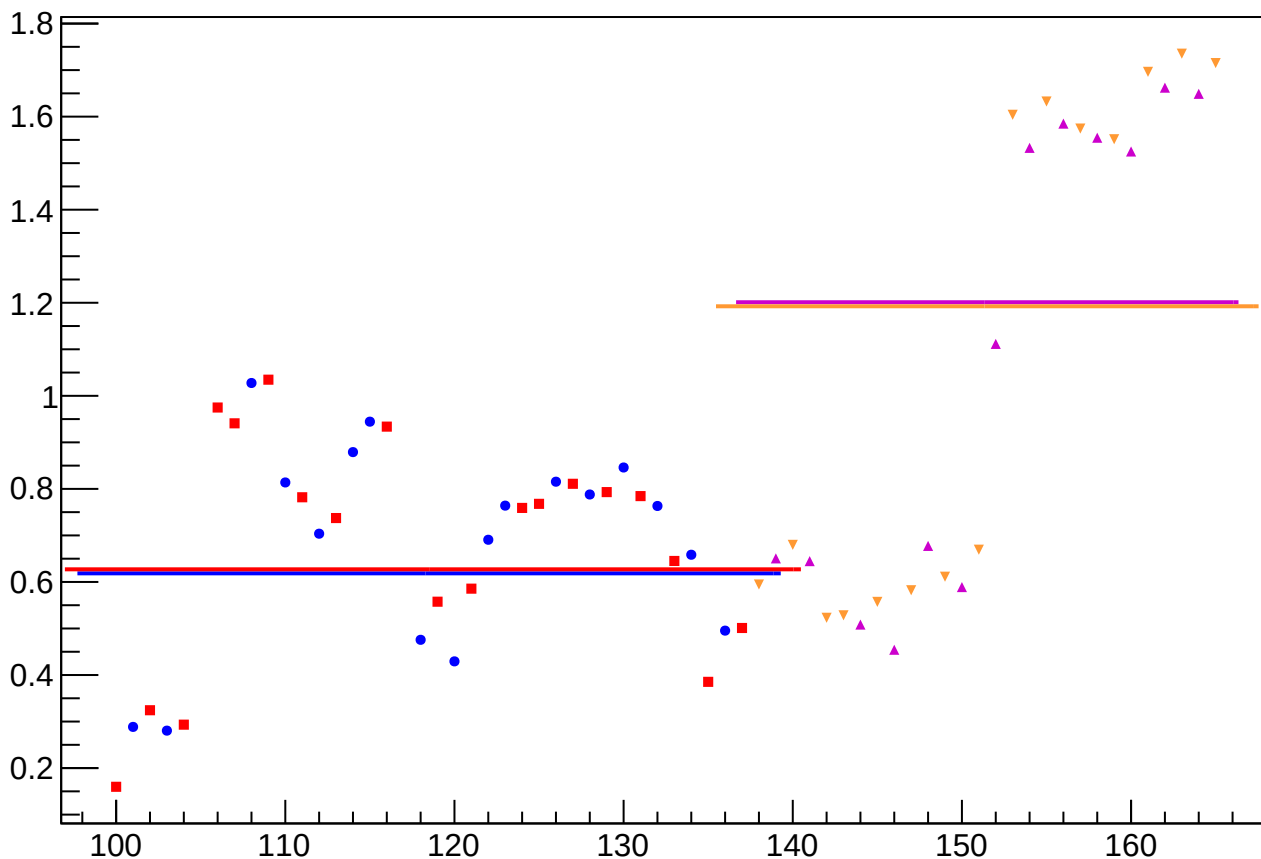
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :845575.6/29

Out: 0.015+/-0.000 χ^2/NDF :772875.6/33

All: 0.015+/-0.000 χ^2/NDF : 1628133.1/63

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.192+/-0.000 χ^2/NDF : 58546448304.2/14

Right Out: 0.627+/-0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.201+/-0.000 χ^2/NDF : 48205428555.3/12

Left: 1.197+/-0.000 χ^2/NDF : 106760341831.2/27

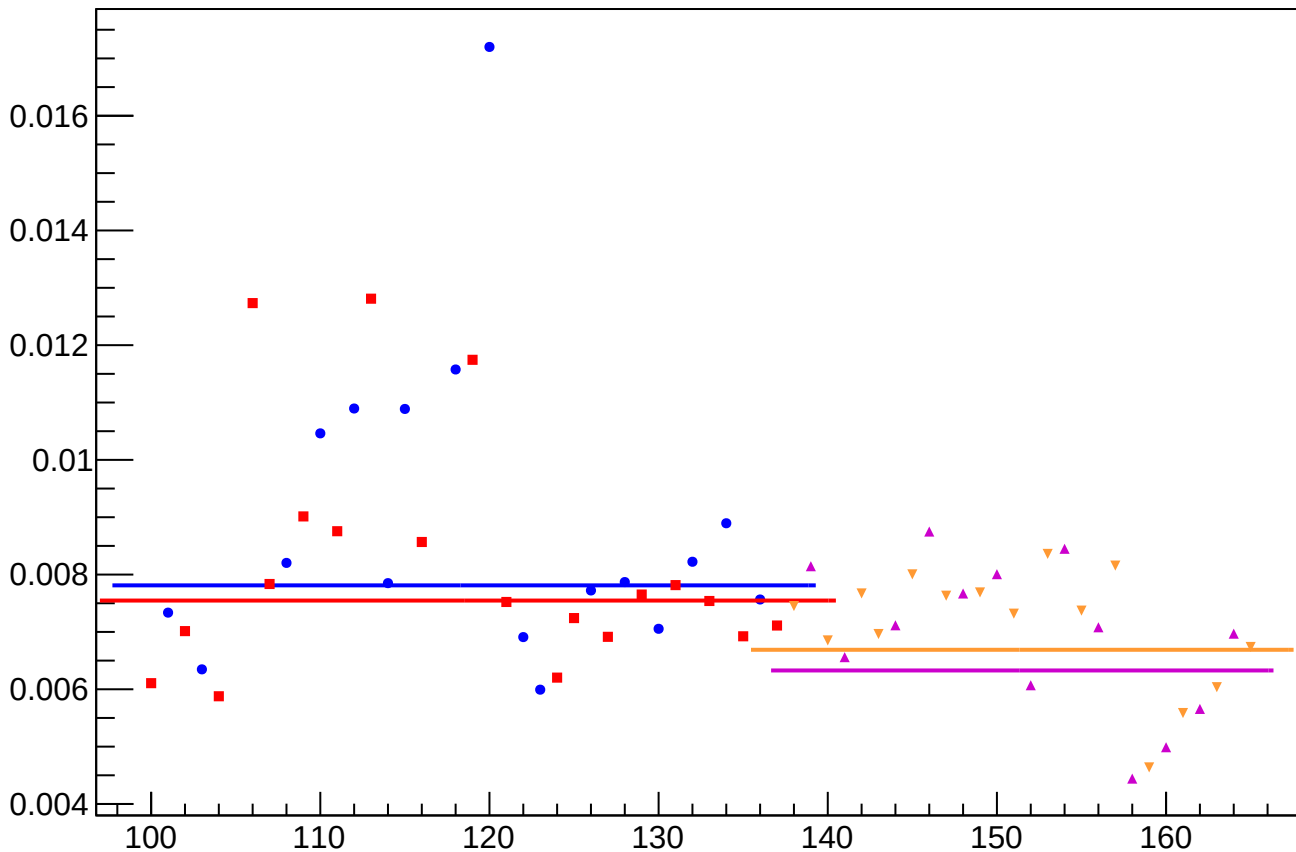
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.030+/-0.000 χ^2/NDF : 76468741574.9/29

Out: 1.005+/-0.000 χ^2/NDF : 88110743513.5/33

All: 1.017+/-0.000 χ^2/NDF : 164678897043.5

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.007+/-0.000 χ^2/NDF : 615378.9/14

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF : 846553.9/12

Left: 0.007+/-0.000 χ^2/NDF : 1491048.5/27

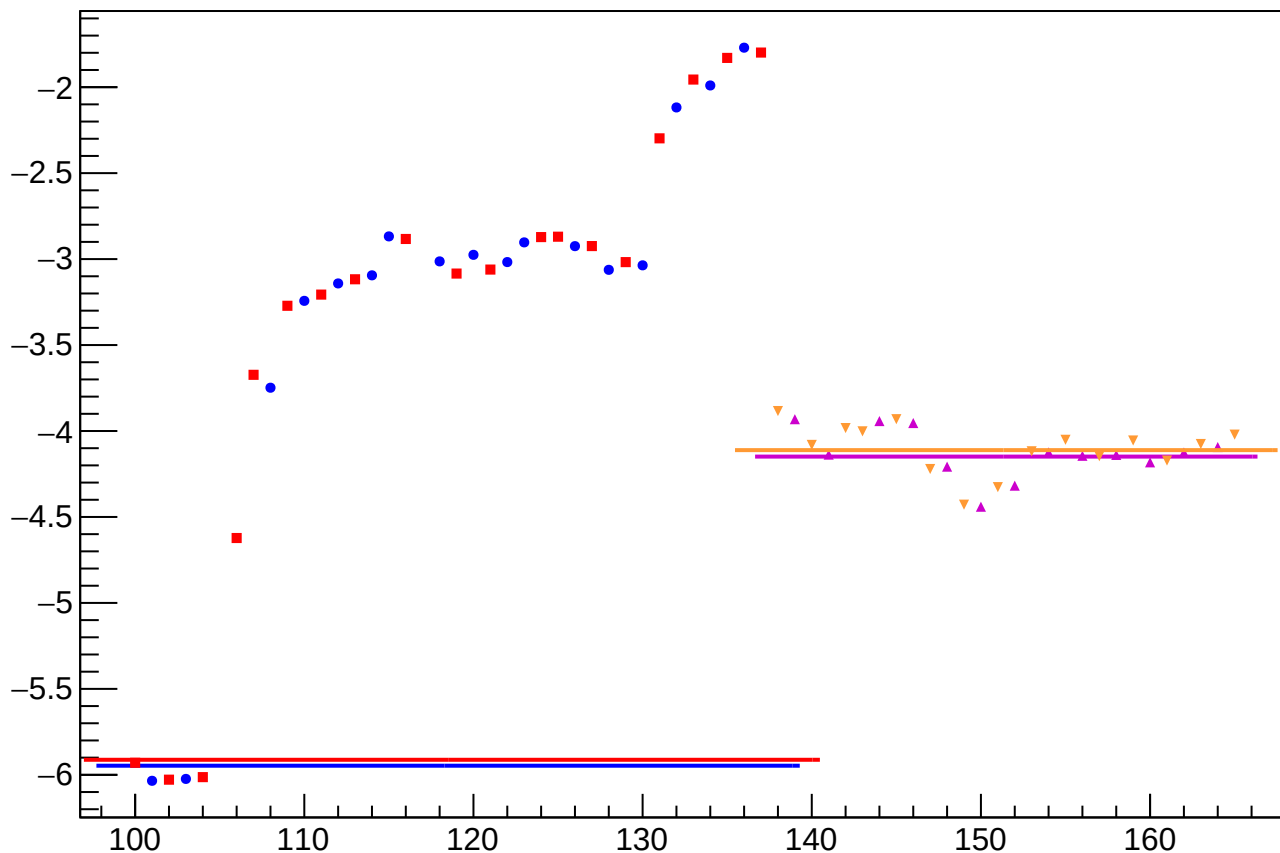
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.007+/-0.000 χ^2/NDF : 1609762.6/29

Out: 0.007+/-0.000 χ^2/NDF : 1164334.8/33

All: 0.007+/-0.000 χ^2/NDF : 2788297.3/63

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000

χ^2/NDF : 13165963559.5/16

Left: -4.134+/-0.000

χ^2/NDF : 52551471.7/27

Left Out: -4.111+/-0.000

χ^2/NDF : 30287925.4/14

Right: -5.932+/-0.000

χ^2/NDF : 27811040884.1/35

Right Out: -5.912+/-0.000

χ^2/NDF : 14619971495.0/18

In: -5.882+/-0.000

χ^2/NDF : 18709759577.8/29

Out: -5.859+/-0.000

χ^2/NDF : 18356668571.2/33

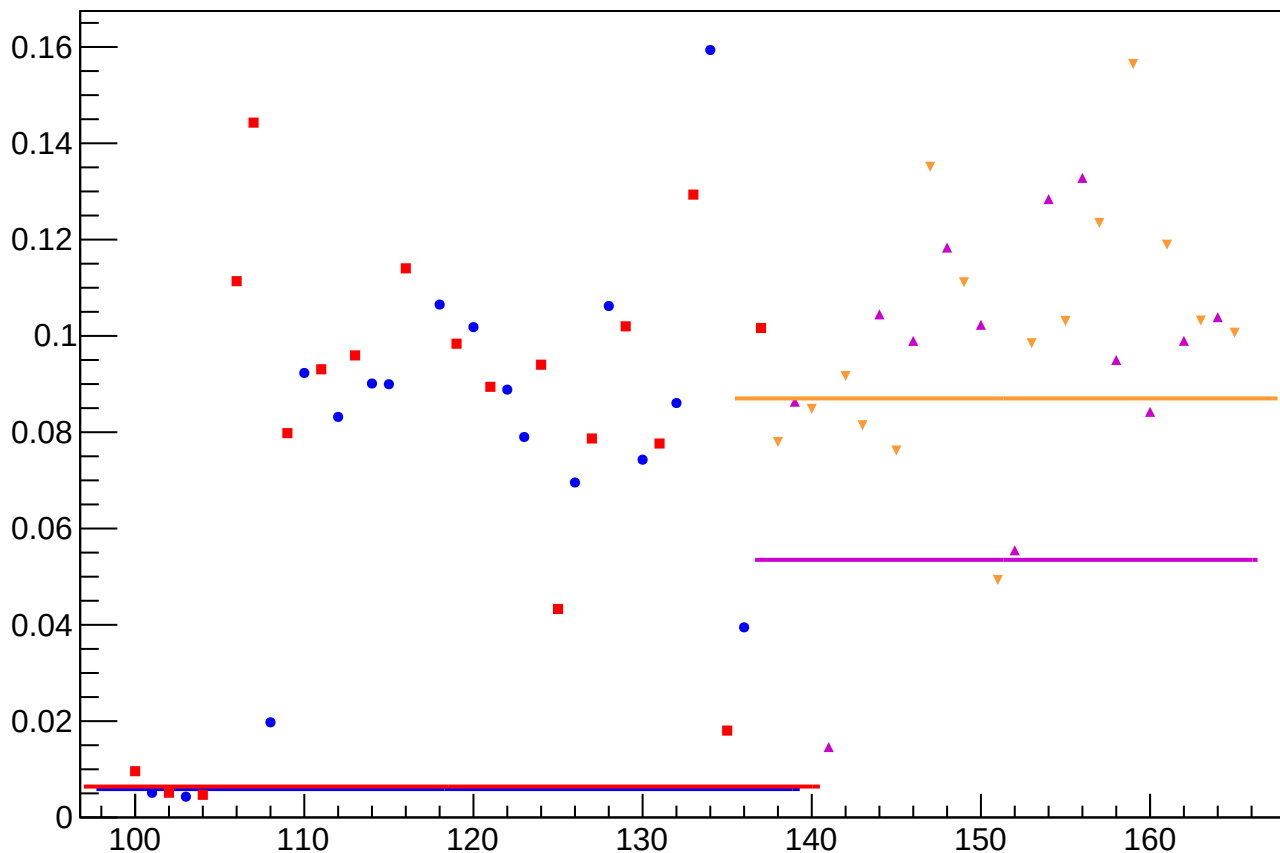
Left In: -4.149+/-0.000

χ^2/NDF : 21264086.8/12

All: -5.872+/-0.000

χ^2/NDF : 37078561532.5/

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.087+/-0.000 χ^2/NDF :1549212.0/14

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.053+/-0.000 χ^2/NDF :6142888.2/12

Left: 0.067+/-0.000 χ^2/NDF : 9282206.9/27

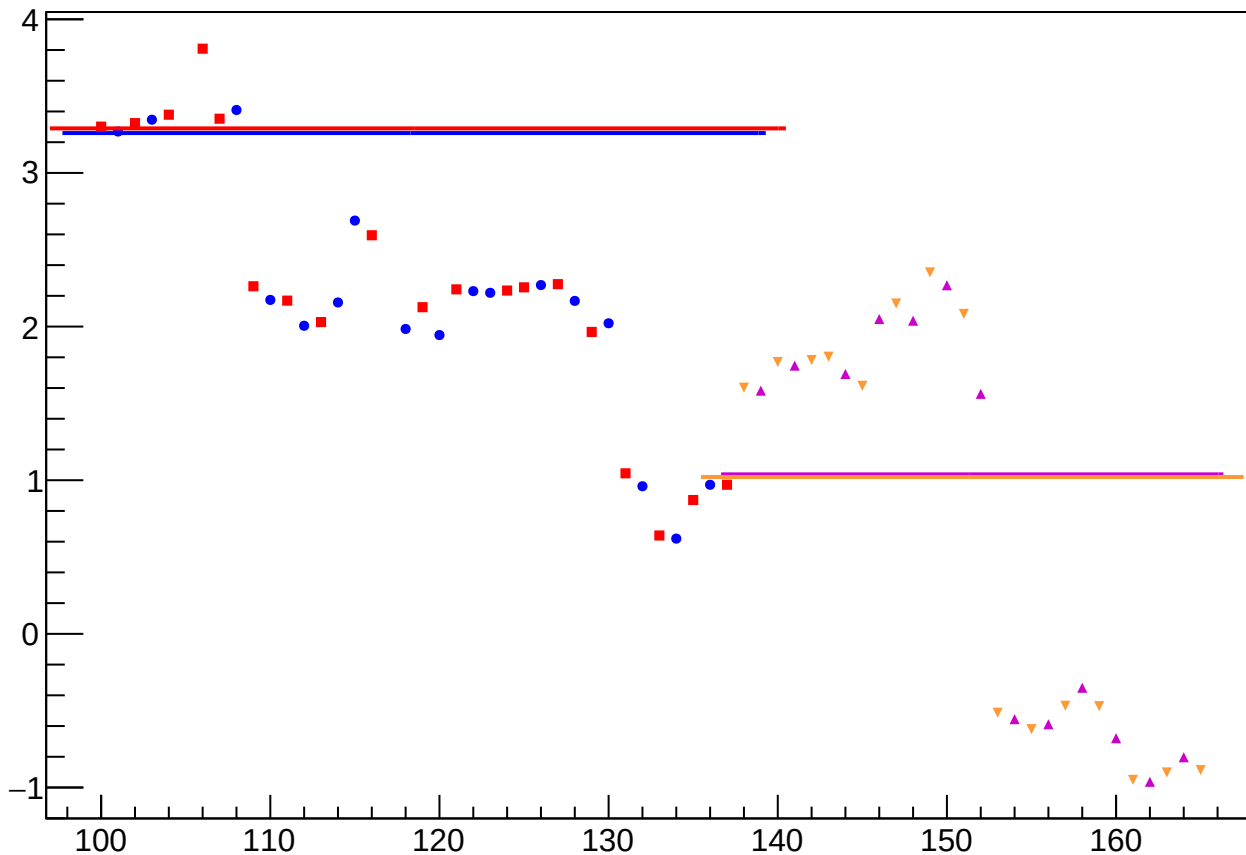
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF :21820030.8/29

Out: 0.009+/-0.000 χ^2/NDF :24892573.3/33

All: 0.008+/-0.000 χ^2/NDF : 46777860.1/63

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 1.021+/-0.000 χ^2/NDF :1679856943.4/14

Right Out: 3.290+/-0.000 χ^2/NDF : 3262231575.5/18

Left In: 1.038+/-0.000 χ^2/NDF :1498273168.1/12

Left: 1.030+/-0.000 χ^2/NDF : 3178300035.7/27

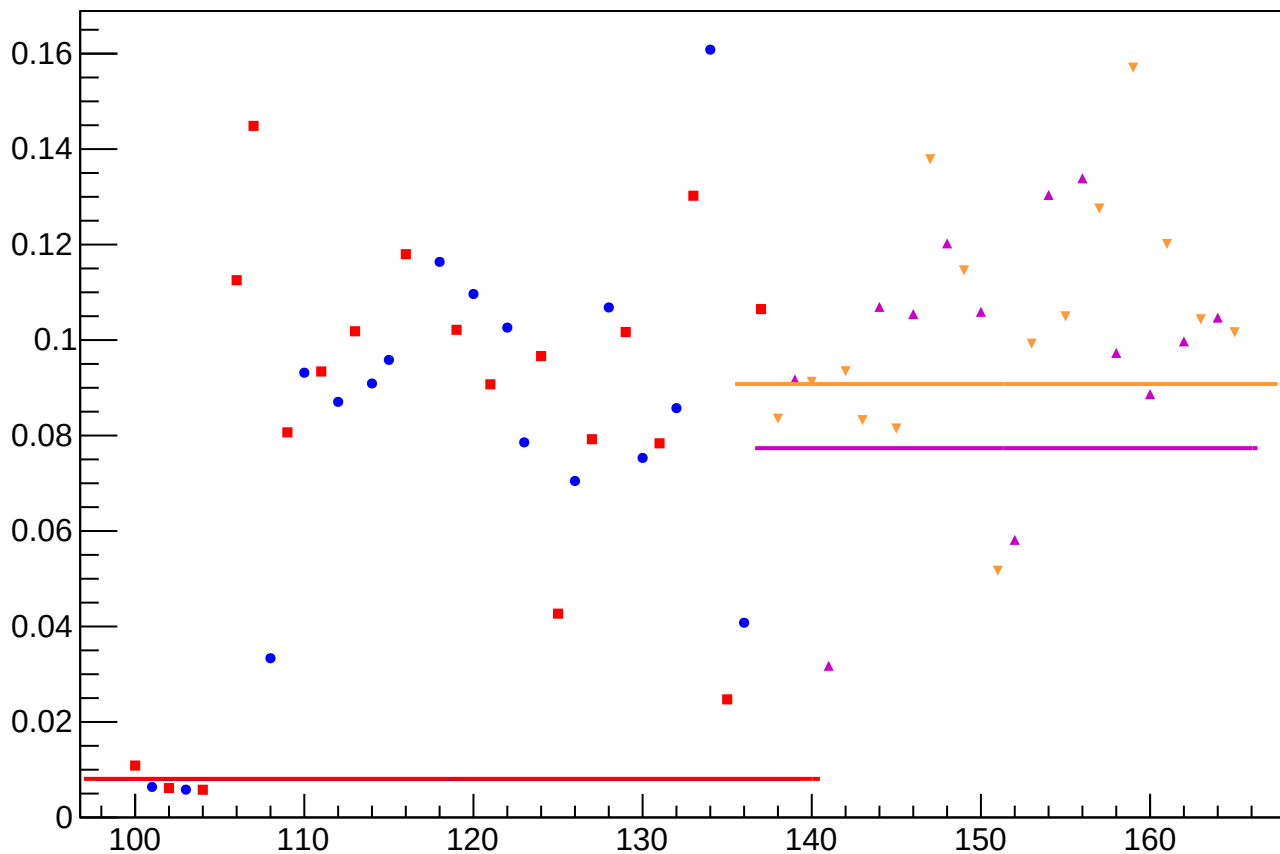
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.173+/-0.000 χ^2/NDF :9940636341.9/29

Out: 3.200+/-0.000 χ^2/NDF :10341407741.5/33

All: 3.186+/-0.000 χ^2/NDF : 20292524455.7/66

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.091+/-0.000 χ^2/NDF :1405395.0/14

Right Out: 0.008+/-0.000 χ^2/NDF : 8309426.5/18

Left In: 0.077+/-0.000 χ^2/NDF :2692633.6/12

Left: 0.084+/-0.000 χ^2/NDF : 4301296.5/27

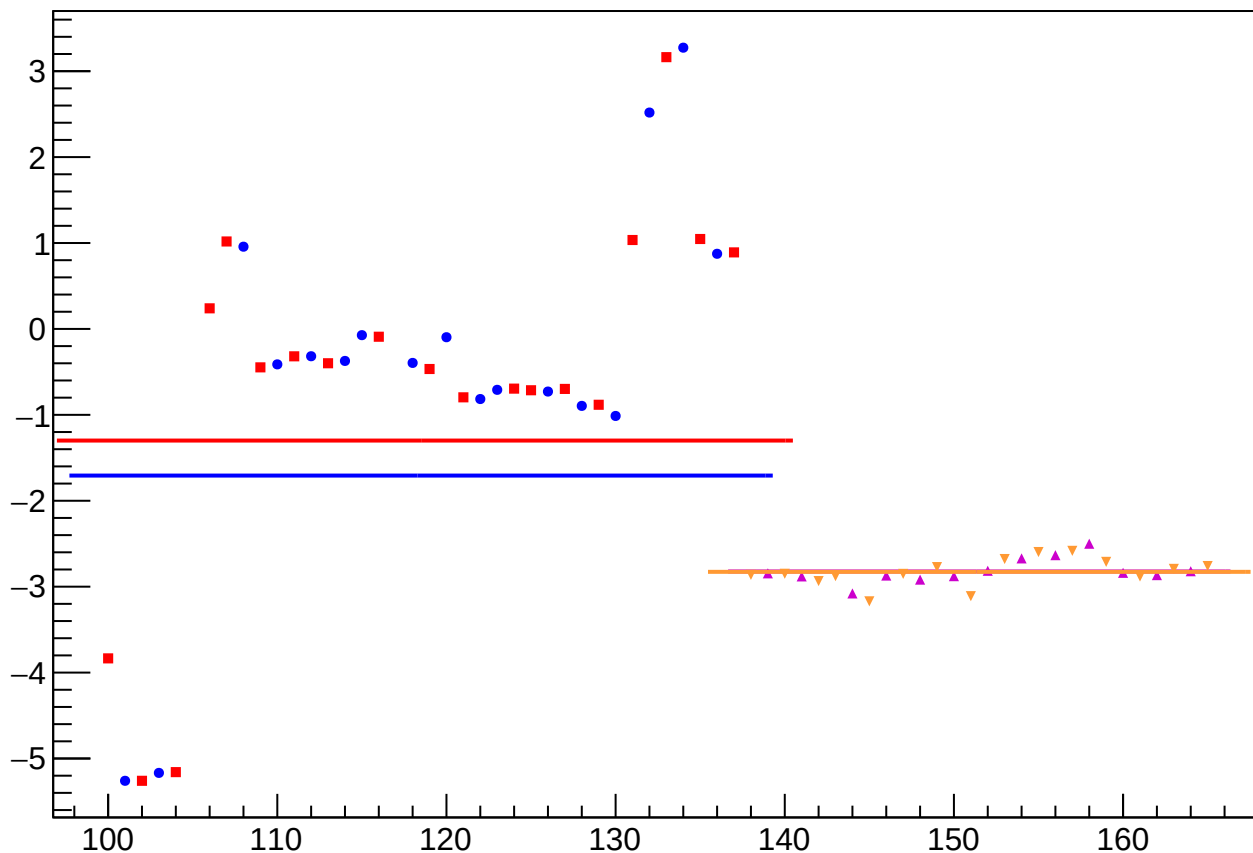
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.011+/-0.000 χ^2/NDF :21187361.5/29

Out: 0.011+/-0.000 χ^2/NDF :24060669.1/33

All: 0.011+/-0.000 χ^2/NDF : 45259206.4/63

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000

χ^2/NDF : 166125579390.4/16

Left: -2.825+/-0.000

χ^2/NDF : 7632987267.9/27

Left Out: -2.827+/-0.000

χ^2/NDF : 4408175850.1/14

Right: -1.489+/-0.000

χ^2/NDF : 346196986988.8/35

Right Out: -1.299+/-0.000

χ^2/NDF : 178036726841.2/18

In: -2.682+/-0.000

χ^2/NDF : 194273331751.5/29

Out: -2.626+/-0.000

χ^2/NDF : 235810514258.6/33

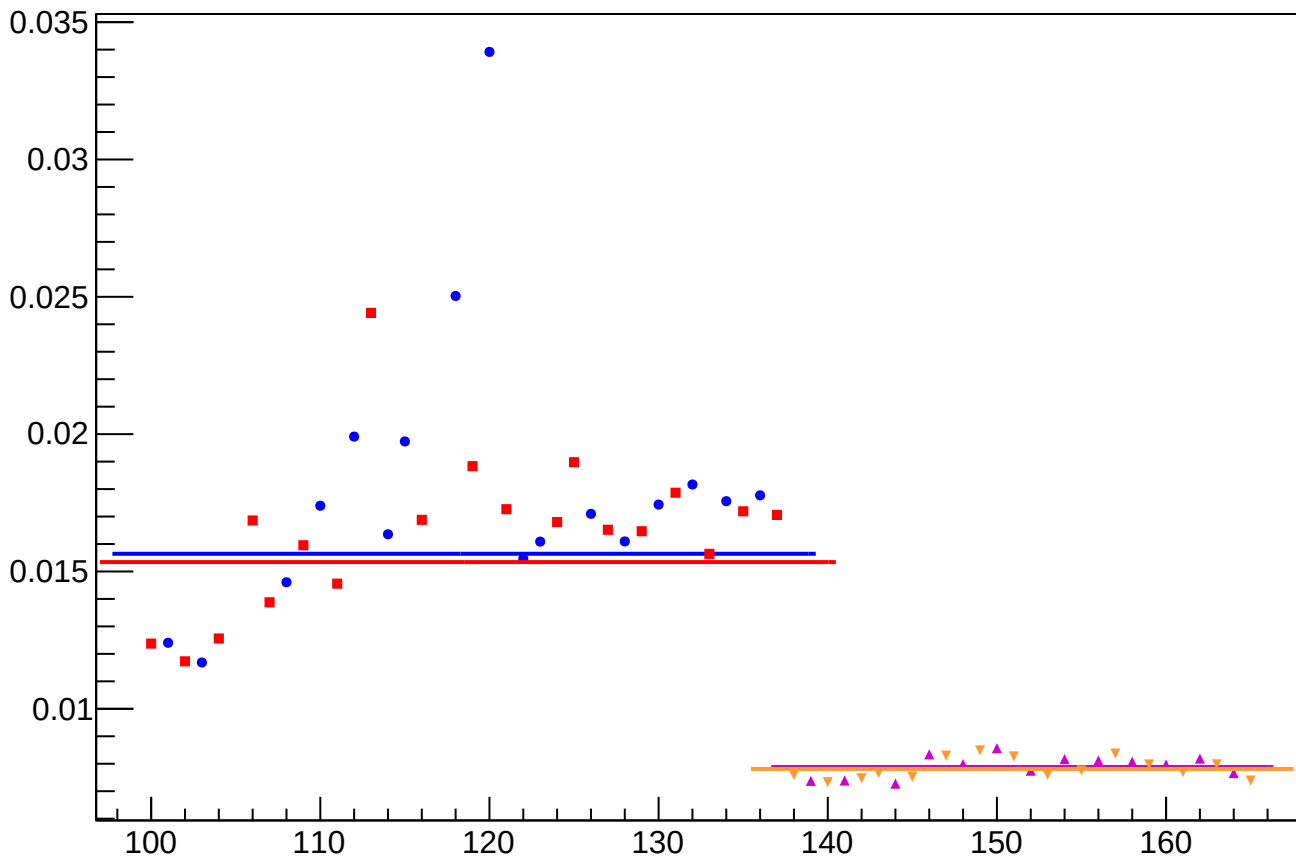
Left In: -2.823+/-0.000

χ^2/NDF : 3223283350.7/12

All: -2.652+/-0.000

χ^2/NDF : 430384911425.5

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF : 44495.9/14

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 48359.5/12

Left: 0.008+/-0.000 χ^2/NDF : 93676.4/27

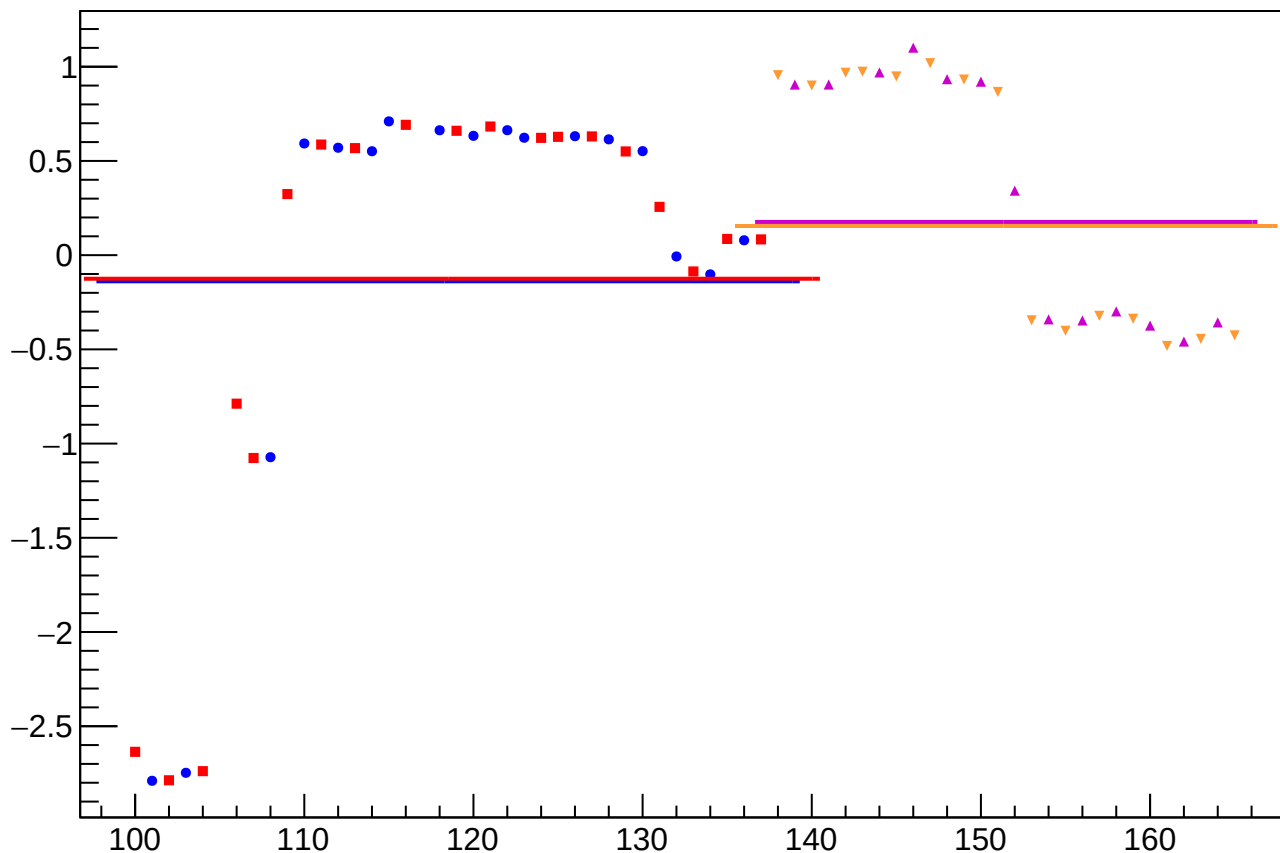
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3038344.5/29

Out: 0.009+/-0.000 χ^2/NDF : 2991047.0/33

All: 0.009+/-0.000 χ^2/NDF : 6030023.0/63

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000 χ^2/NDF : 715049983856.2/16

Left Out: 0.155+/-0.000 χ^2/NDF : 113330389394.0/14

Right Out: -0.125+/-0.000 χ^2/NDF : 761496762534.7/18

Left In: 0.176+/-0.000 χ^2/NDF : 90868729075.9/12

Left: 0.165+/-0.000 χ^2/NDF : 204257366813.3/27

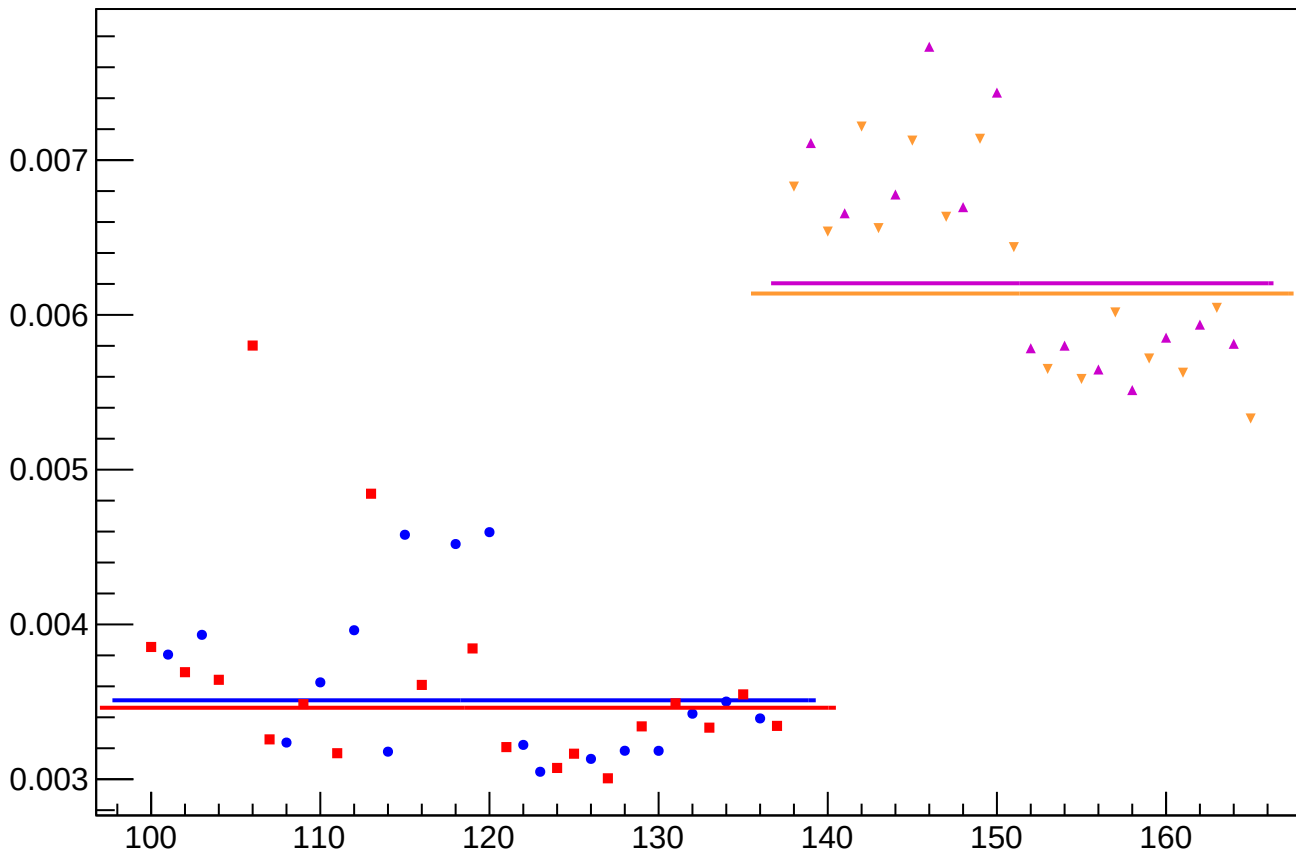
Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

In: -0.038+/-0.000 χ^2/NDF : 822176934807.0/29

Out: -0.036+/-0.000 χ^2/NDF : 888773002537.6/33

All: -0.037+/-0.000 χ^2/NDF : 1710951202278

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171337.9/16

Left Out: 0.006+/-0.000 χ^2/NDF :175428.0/14

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF :204275.4/12

Left: 0.006+/-0.000 χ^2/NDF : 380801.2/27

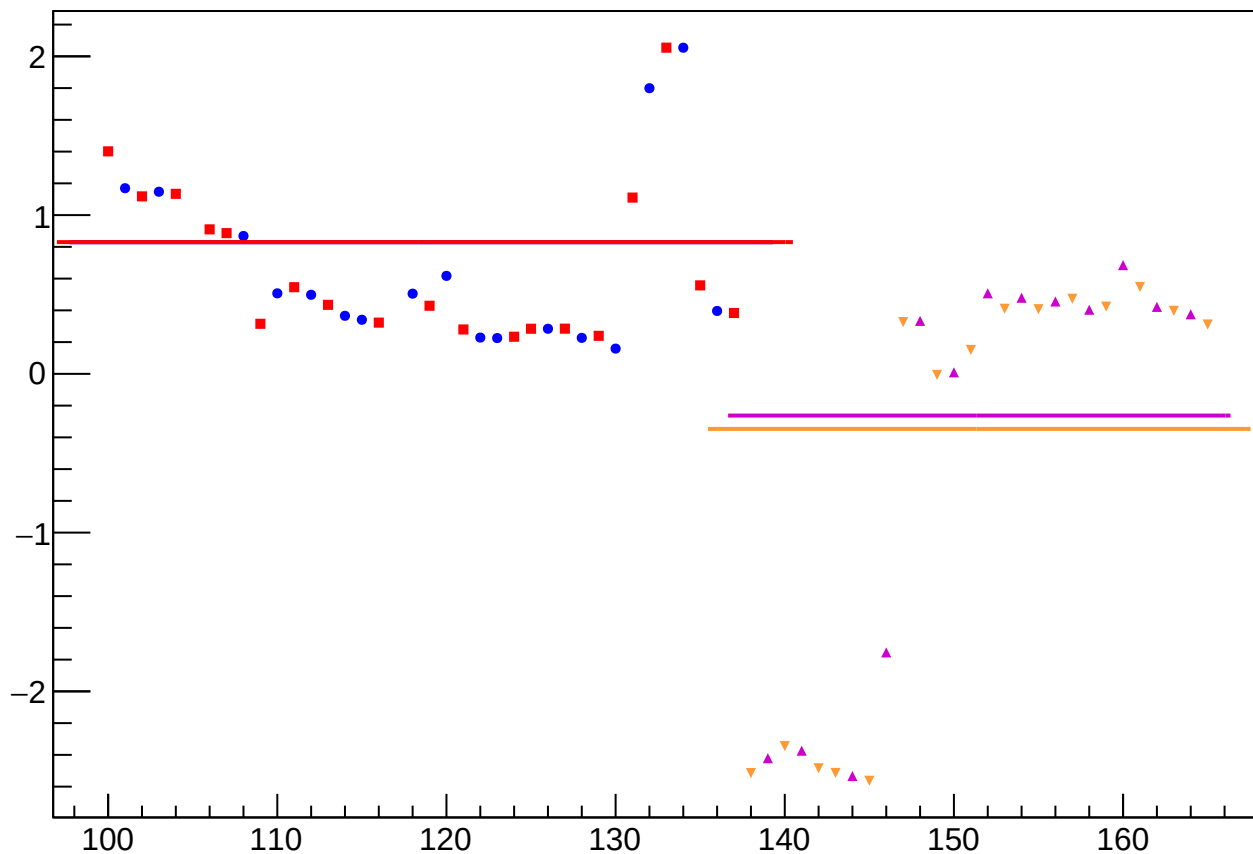
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.004+/-0.000 χ^2/NDF :2754385.6/29

Out: 0.004+/-0.000 χ^2/NDF :2942443.8/33

All: 0.004+/-0.000 χ^2/NDF : 5699597.4/63

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.347+/-0.000 χ^2/NDF : 443714986873.4/14

Right Out: 0.830+/-0.000 χ^2/NDF : 33335665437.8/18

Left In: -0.263+/-0.000 χ^2/NDF : 380065159020.7/12

Left: -0.306+/-0.000 χ^2/NDF : 824782346636.1/27

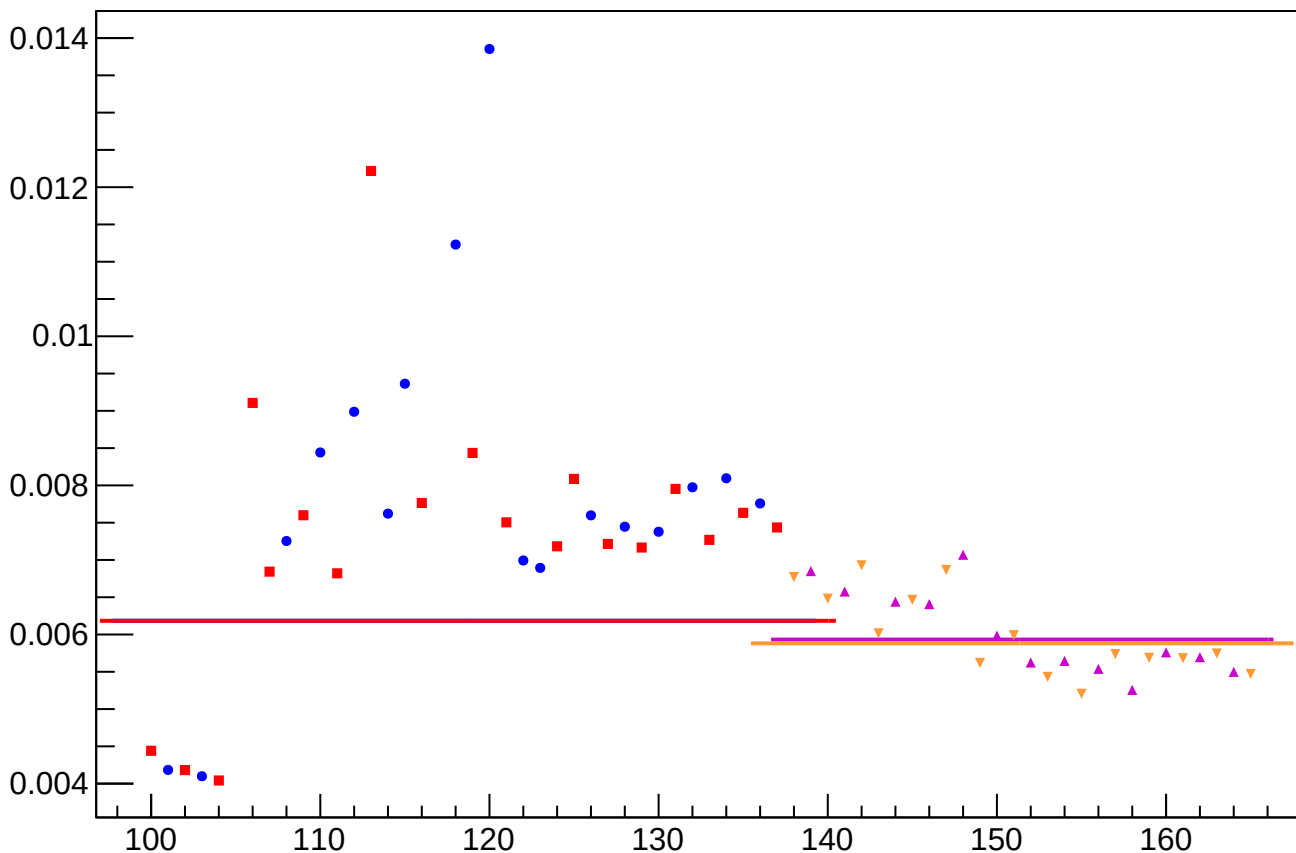
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.107+/-0.000 χ^2/NDF : 521369331936.5/29

Out: 0.053+/-0.000 χ^2/NDF : 615940060564.8/33

All: 0.079+/-0.000 χ^2/NDF : 1137928767519.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1228962.4/16

Left Out: 0.006+/-0.000 χ^2/NDF : 145768.5/14

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF : 147690.0/12

Left: 0.006+/-0.000 χ^2/NDF : 294166.8/27

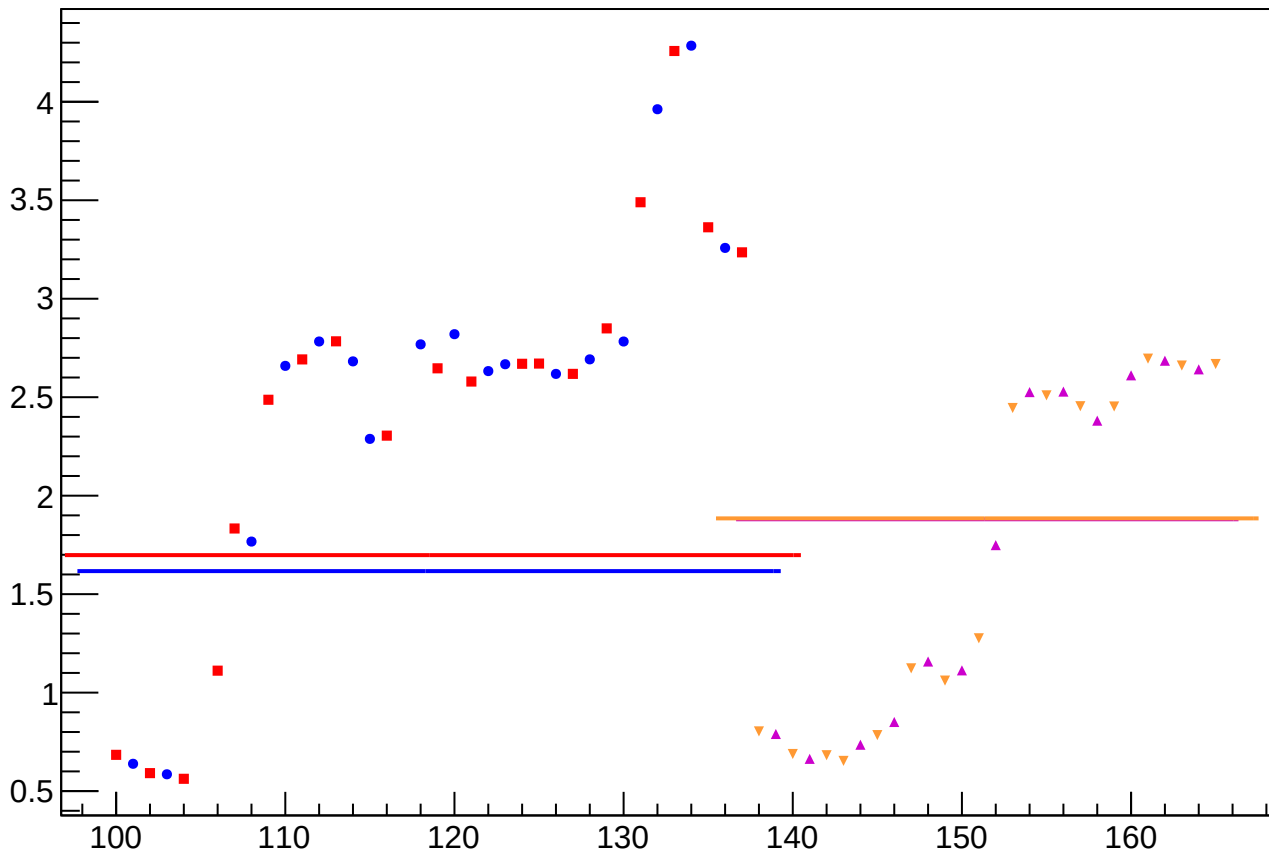
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF : 1388434.0/29

Out: 0.006+/-0.000 χ^2/NDF : 1190896.8/33

All: 0.006+/-0.000 χ^2/NDF : 2579799.5/63

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.885+/-0.000 χ^2/NDF : 226694873587.0/14

Right Out: 1.698+/-0.000 χ^2/NDF : 227408345801.7/18

Left In: 1.880+/-0.000 χ^2/NDF : 187576198129.1/12

Left: 1.883+/-0.000 χ^2/NDF : 414274266011.7/27

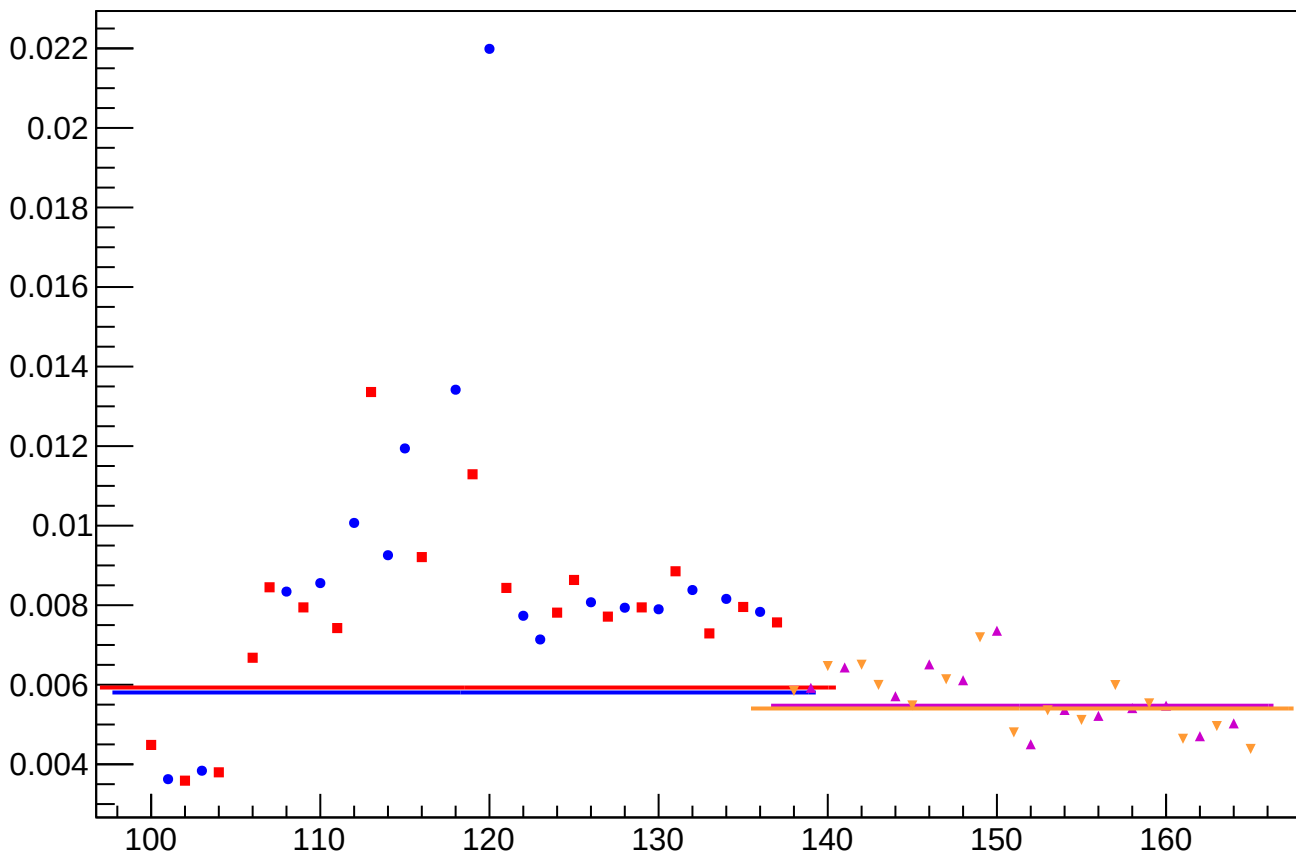
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 1.796+/-0.000 χ^2/NDF : 397192684269.9/29

Out: 1.826+/-0.000 χ^2/NDF : 457724701017.5/33

All: 1.811+/-0.000 χ^2/NDF : 855126188080.4

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 327364.9/14

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF : 306798.1/12

Left: 0.005+/-0.000 χ^2/NDF : 635709.3/27

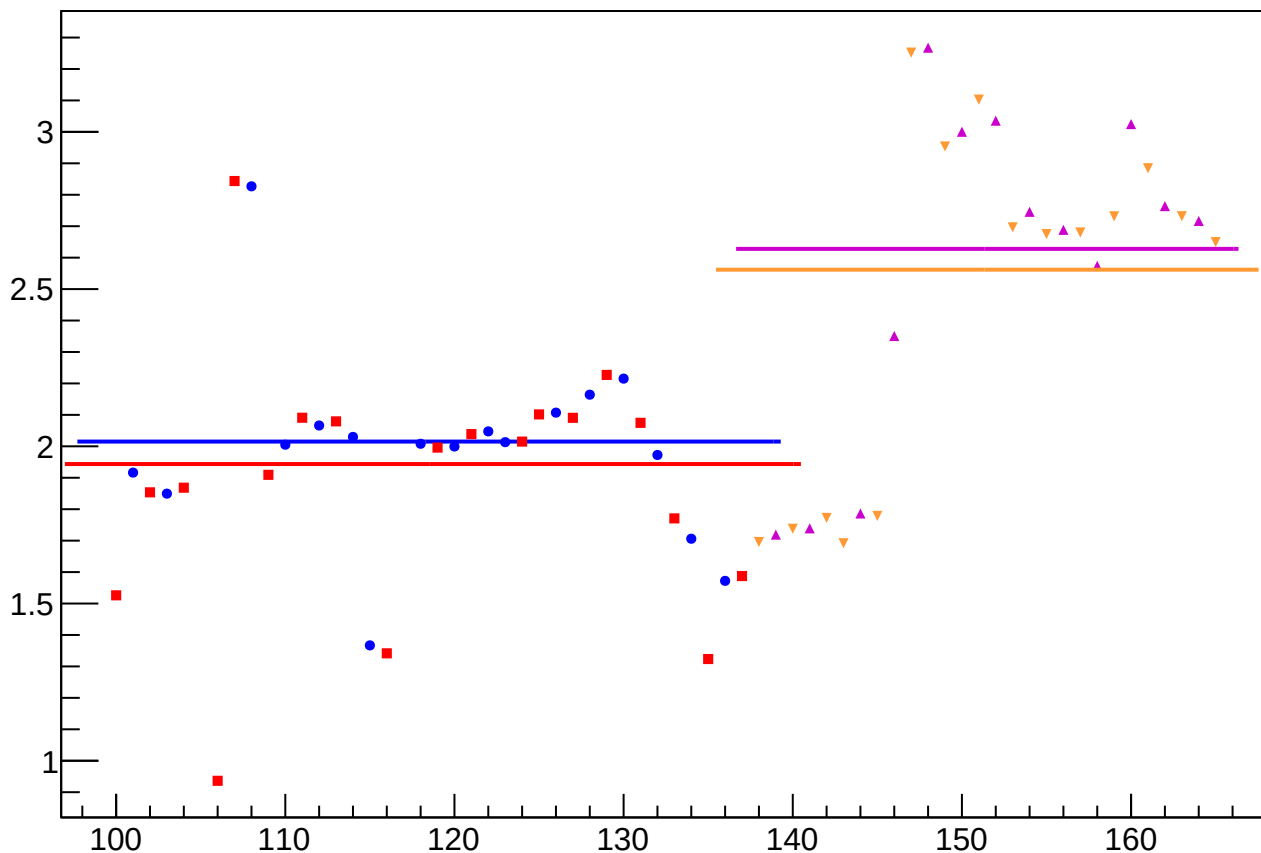
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.006+/-0.000 χ^2/NDF : 2246239.7/29

Out: 0.006+/-0.000 χ^2/NDF : 2070776.5/33

All: 0.006+/-0.000 χ^2/NDF : 4317061.6/63

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.562+/-0.000 χ^2/NDF : 48105251758.5/14

Right Out: 1.944+/-0.000 χ^2/NDF : 21427099579.0/18

Left In: 2.628+/-0.000 χ^2/NDF : 40577910365.1/12

Left: 2.594+/-0.000 χ^2/NDF : 89080631452.4/27

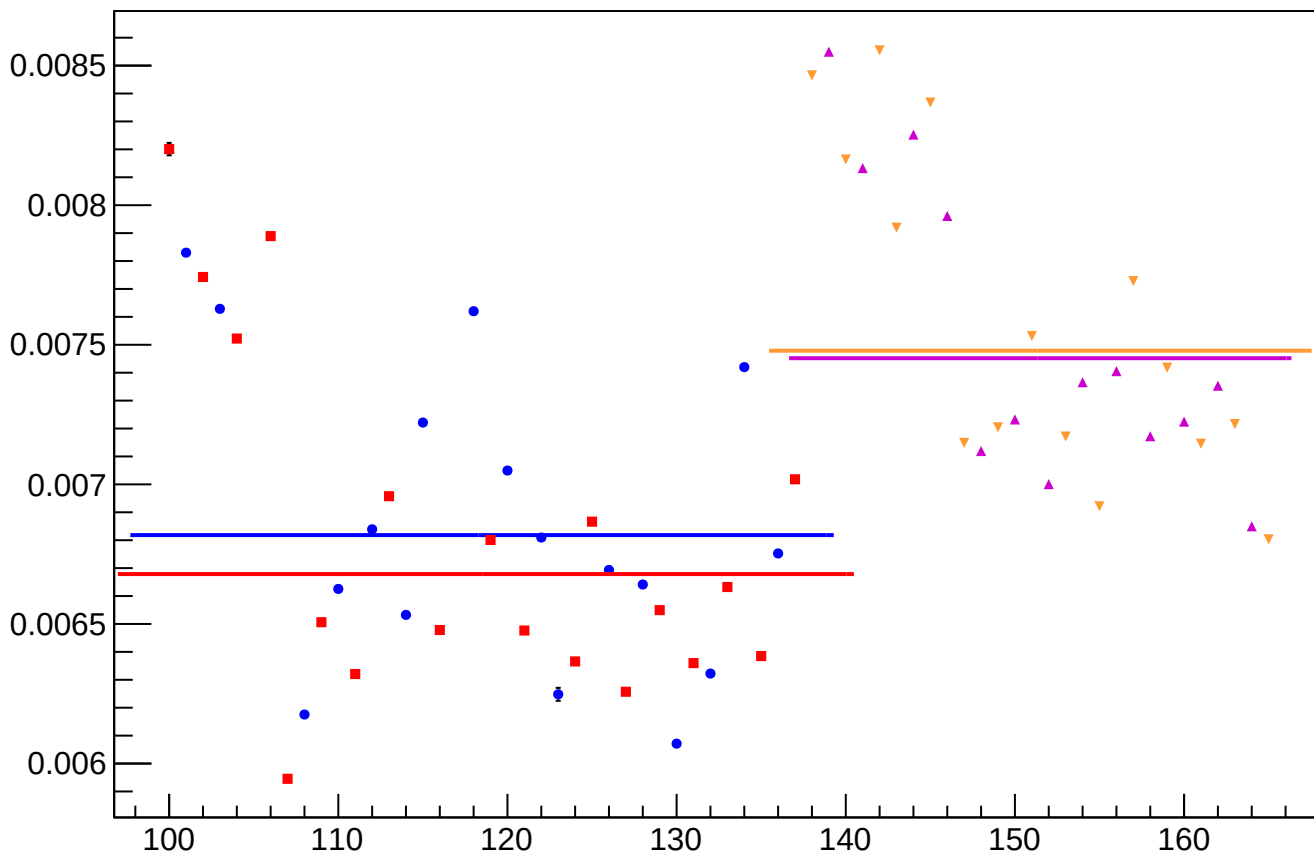
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.360+/-0.000 χ^2/NDF : 81758503496.4/29

Out: 2.284+/-0.000 χ^2/NDF : 101570704431.0/33

All: 2.321+/-0.000 χ^2/NDF : 184274247200.0

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 75813.9/16

Left Out: 0.007+/-0.000 χ^2/NDF : 98058.3/14

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF : 79333.3/12

Left: 0.007+/-0.000 χ^2/NDF : 177523.0/27

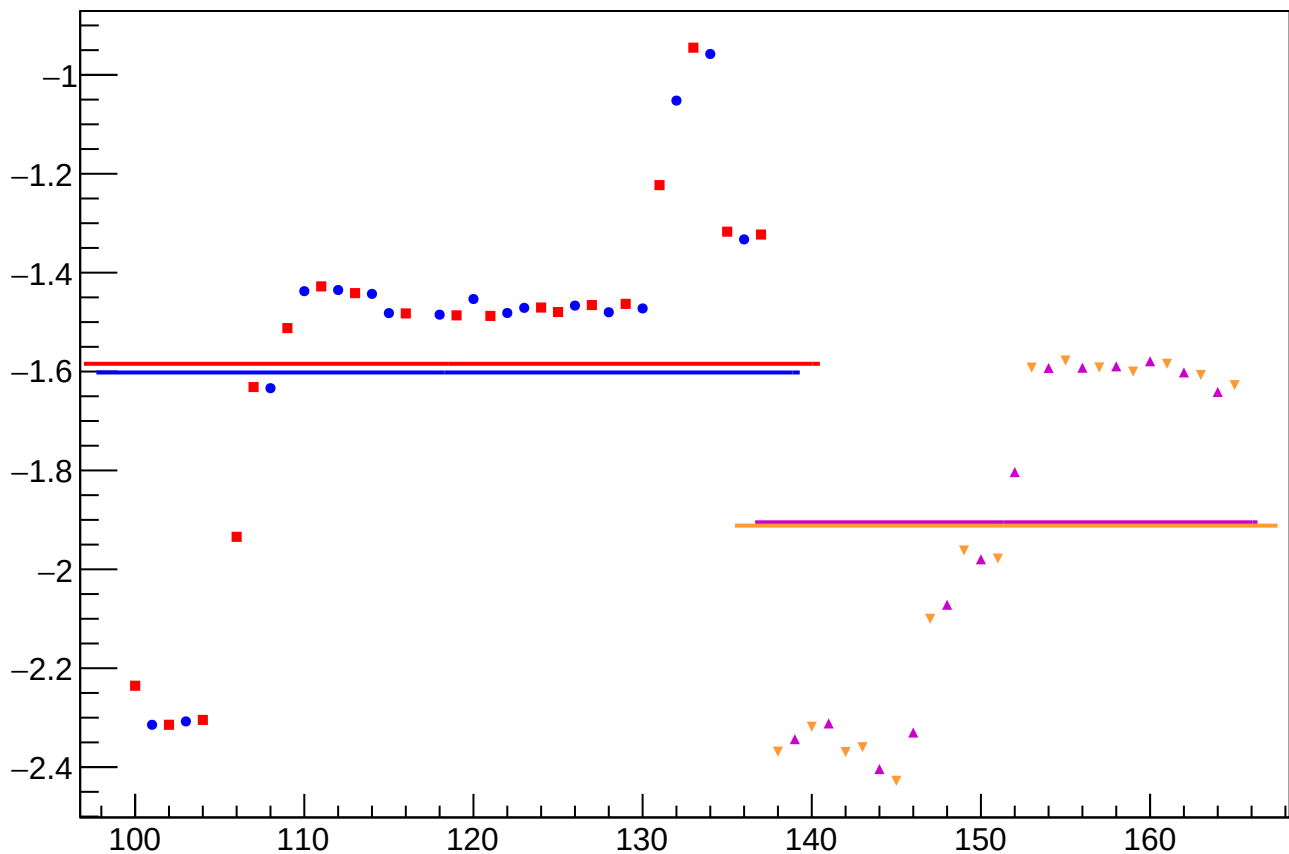
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF : 217055.4/29

Out: 0.007+/-0.000 χ^2/NDF : 281147.7/33

All: 0.007+/-0.000 χ^2/NDF : 499214.3/63

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.912+/-0.000 χ^2/NDF : 145040276293.6/14

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.905+/-0.000 χ^2/NDF : 126619988888.4/12

Left: -1.908+/-0.000 χ^2/NDF : 271687411908.1/27

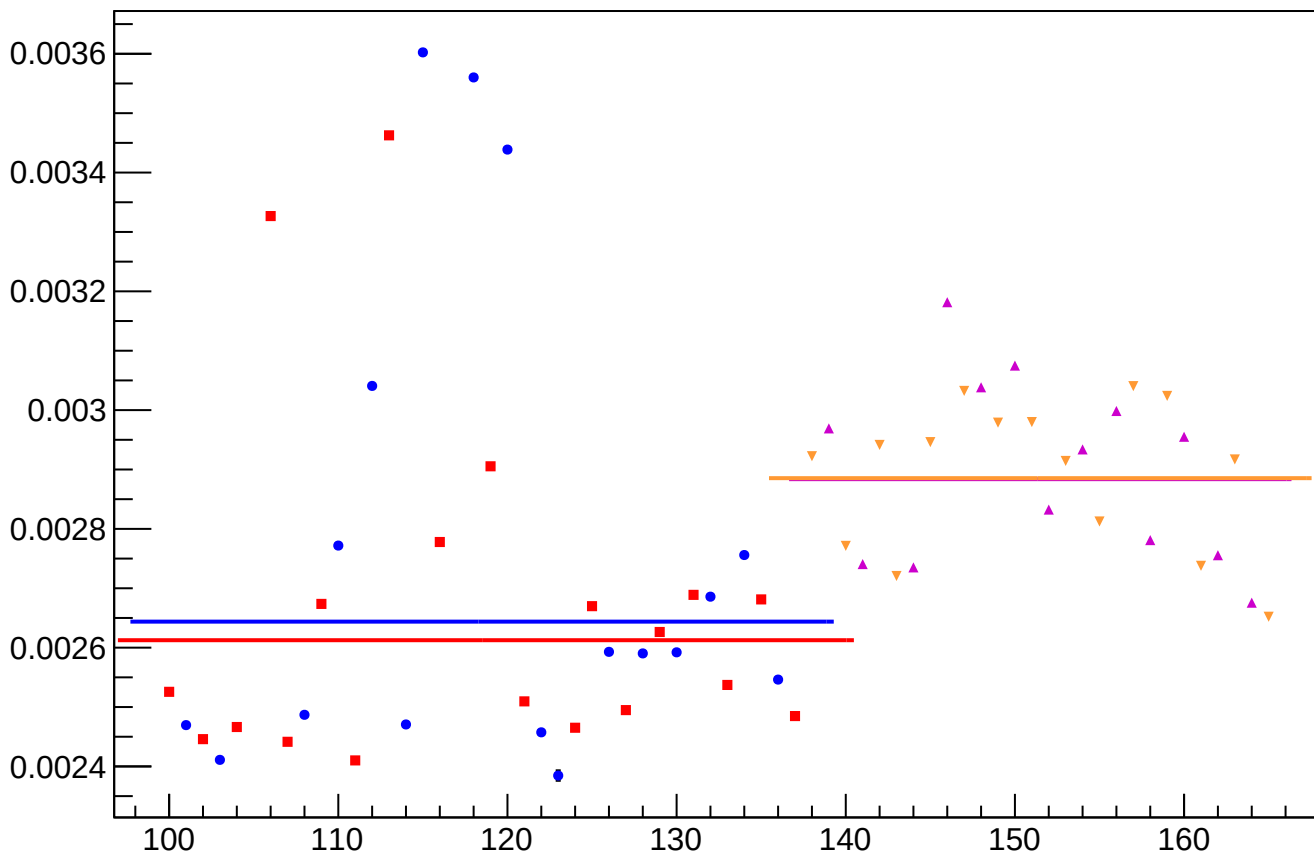
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.773+/-0.000 χ^2/NDF : 313510916819.7/29

Out: -1.768+/-0.000 χ^2/NDF : 347350760179.0/33

All: -1.770+/-0.000 χ^2/NDF : 660895763921.5

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :36241.4/14

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :49172.2/12

Left: 0.003+/-0.000 χ^2/NDF : 85417.0/27

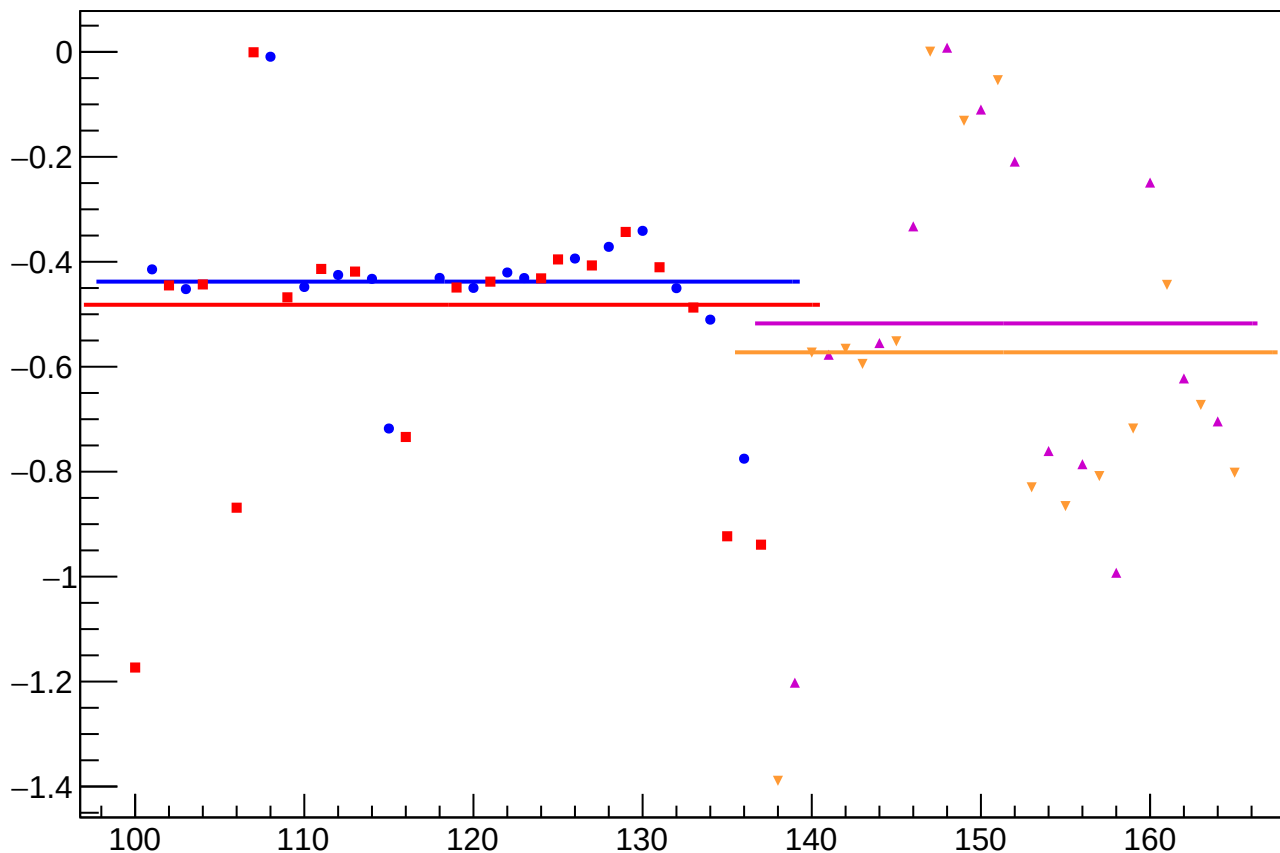
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :259094.0/29

Out: 0.003+/-0.000 χ^2/NDF :223172.7/33

All: 0.003+/-0.000 χ^2/NDF : 482694.8/63

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.573+/-0.000 χ^2/NDF : 7814527573.9/14

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.517+/-0.000 χ^2/NDF : 7090751535.7/12

Left: -0.546+/-0.000 χ^2/NDF : 15002442821.5/27

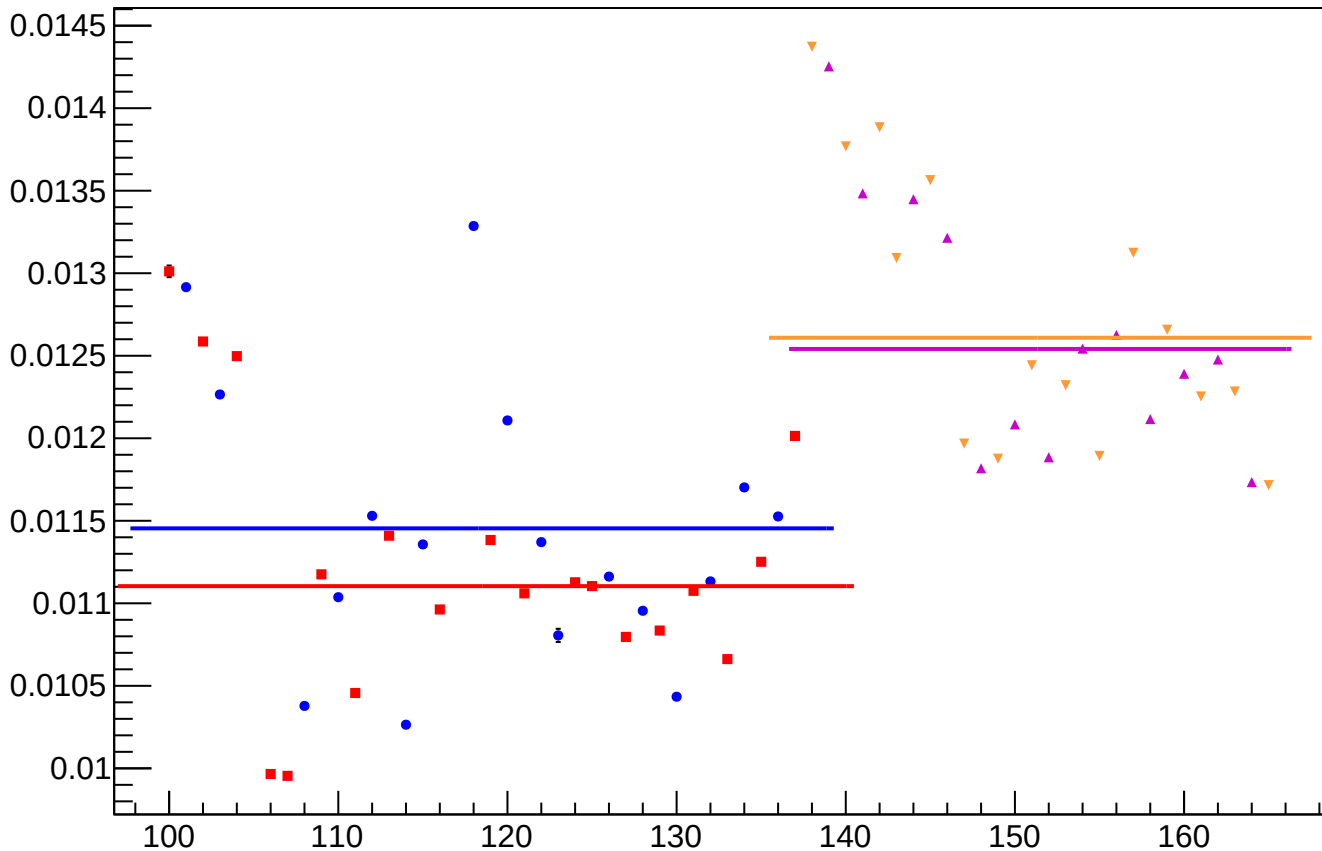
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.482+/-0.000 χ^2/NDF : 8727755796.6/29

Out: -0.531+/-0.000 χ^2/NDF : 10758620586.3/33

All: -0.508+/-0.000 χ^2/NDF : 19624272099.6/76

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.013+/-0.000 χ^2/NDF : 74219.7/14

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.013+/-0.000 χ^2/NDF : 58586.0/12

Left: 0.013+/-0.000 χ^2/NDF : 133100.3/27

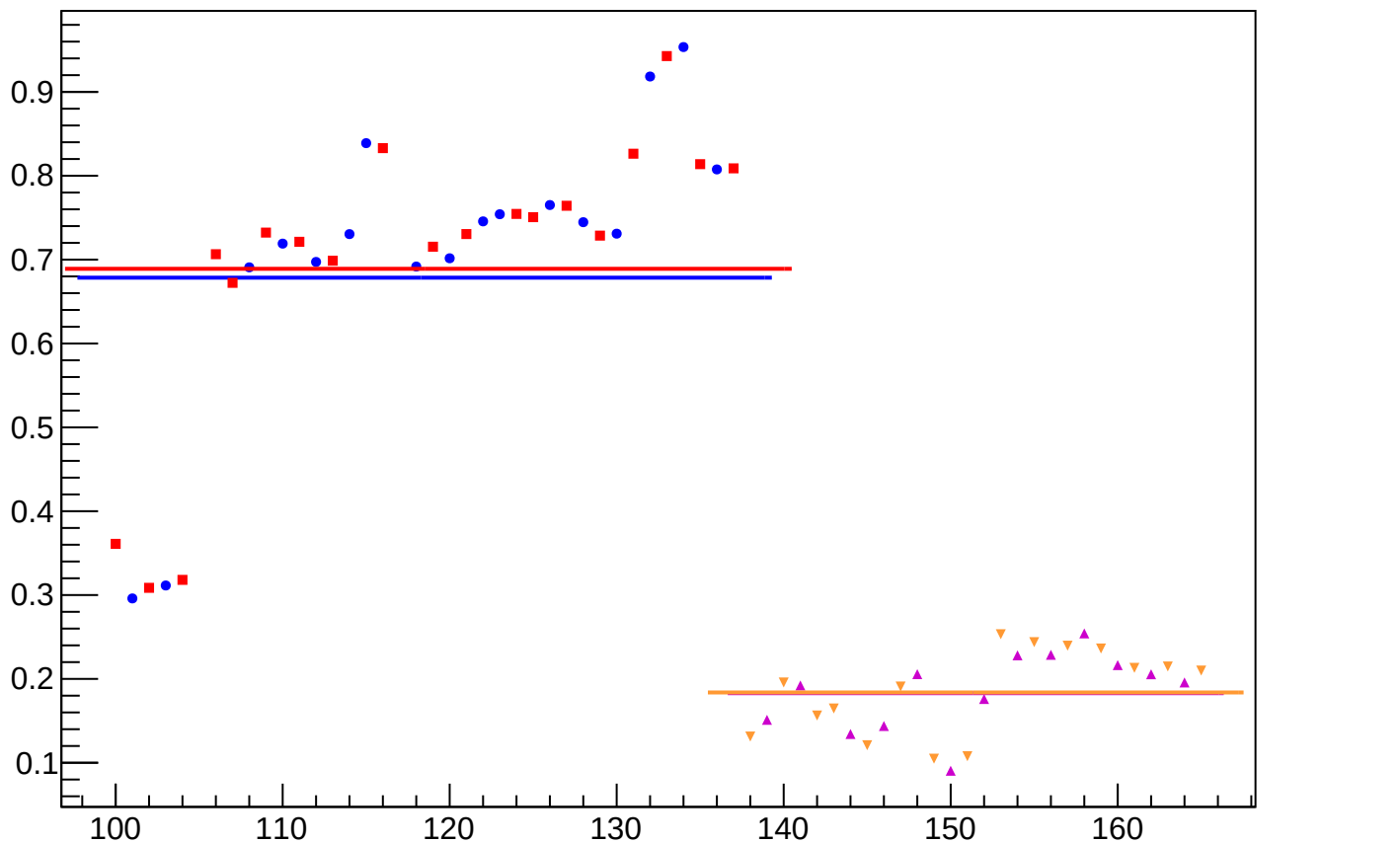
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 188299.5/29

Out: 0.012+/-0.000 χ^2/NDF : 267903.2/33

All: 0.012+/-0.000 χ^2/NDF : 458614.6/63

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.184+/-0.000 χ^2/NDF : 5403747789.6/14

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.183+/-0.000 χ^2/NDF : 4116467588.0/12

Left: 0.183+/-0.000 χ^2/NDF : 9520991747.6/27

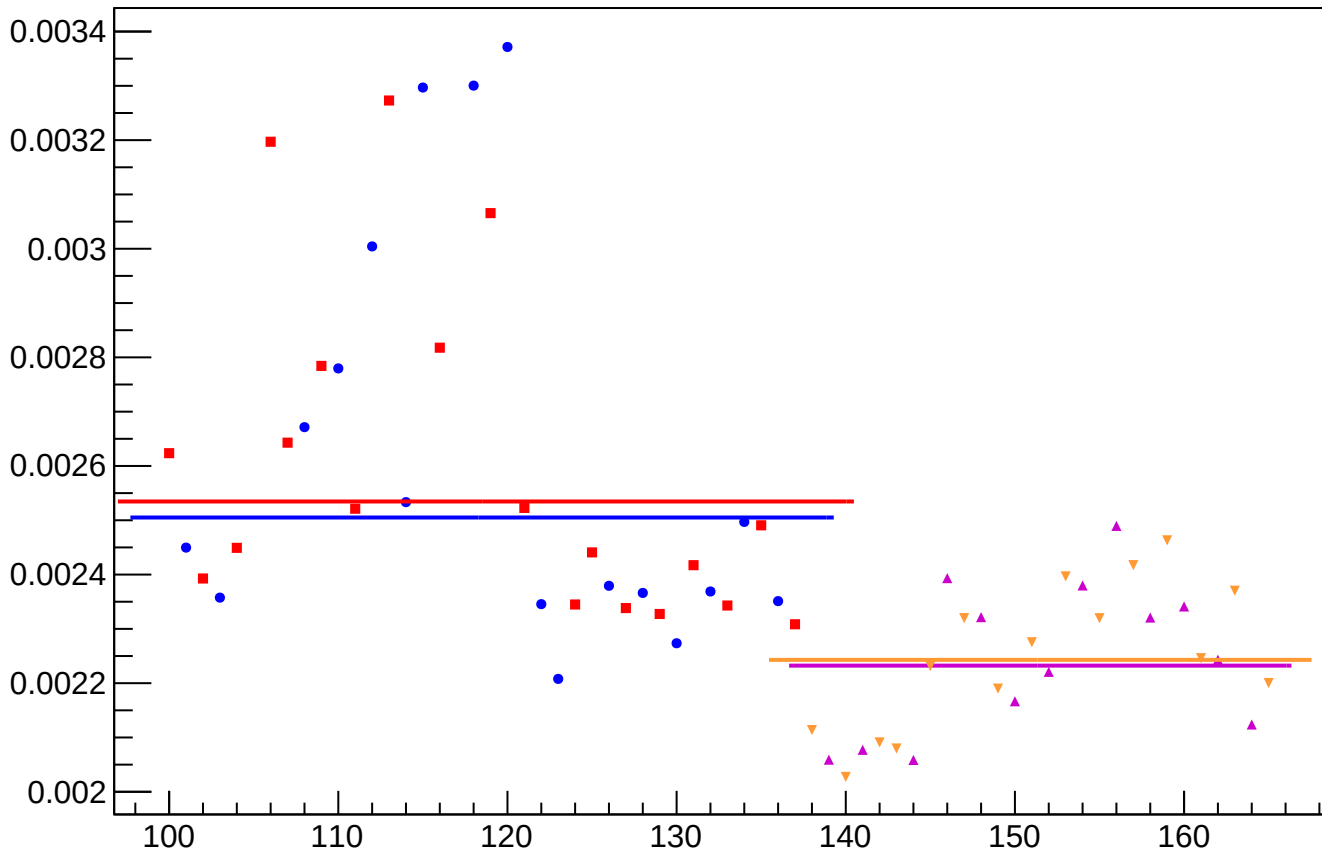
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.348+/-0.000 χ^2/NDF : 209049534577.9/29

Out: 0.348+/-0.000 χ^2/NDF : 220652334691.9/33

All: 0.348+/-0.000 χ^2/NDF : 429701880353.1

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 175524.0/16

Left Out: 0.002+/-0.000 χ^2/NDF : 72906.0/14

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF : 74099.4/12

Left: 0.002+/-0.000 χ^2/NDF : 147240.9/27

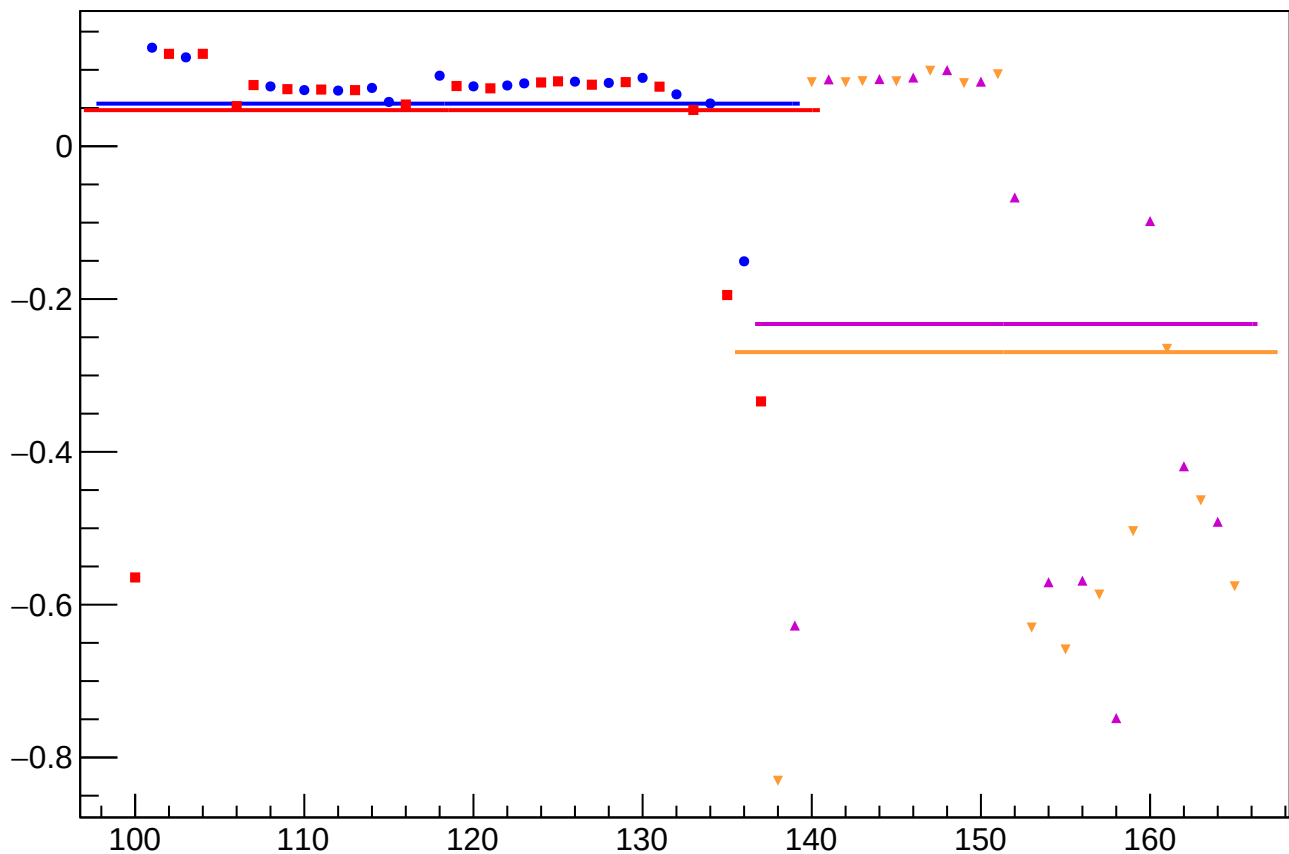
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF : 350474.8/29

Out: 0.002+/-0.000 χ^2/NDF : 324425.4/33

All: 0.002+/-0.000 χ^2/NDF : 675564.3/63

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 423003688.1/16

Left: -0.252+/-0.000

χ^2/NDF : 16907984203.2/27

Left Out: -0.269+/-0.000

χ^2/NDF : 9187071025.0/14

Right: 0.051+/-0.000

χ^2/NDF : 1245197626.4/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819588537.2/18

In: -0.097+/-0.000

χ^2/NDF : 11061528792.1/29

Out: -0.114+/-0.000

χ^2/NDF : 13968552757.6/33

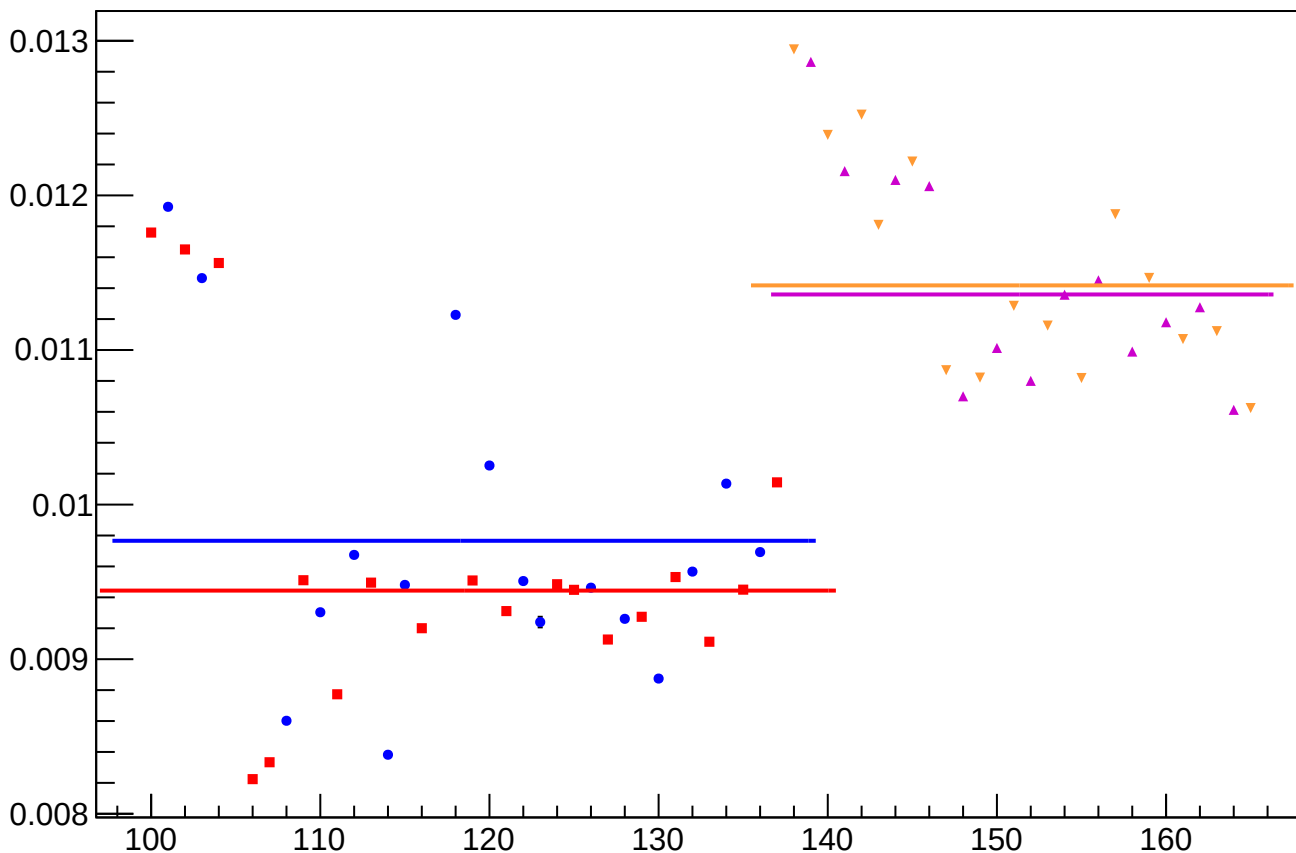
Left In: -0.233+/-0.000

χ^2/NDF : 7668025210.4/12

All: -0.106+/-0.000

χ^2/NDF : 25053156519.2/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116638.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 66915.0/14

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 55620.5/12

Left: 0.011+/-0.000 χ^2/NDF : 122804.9/27

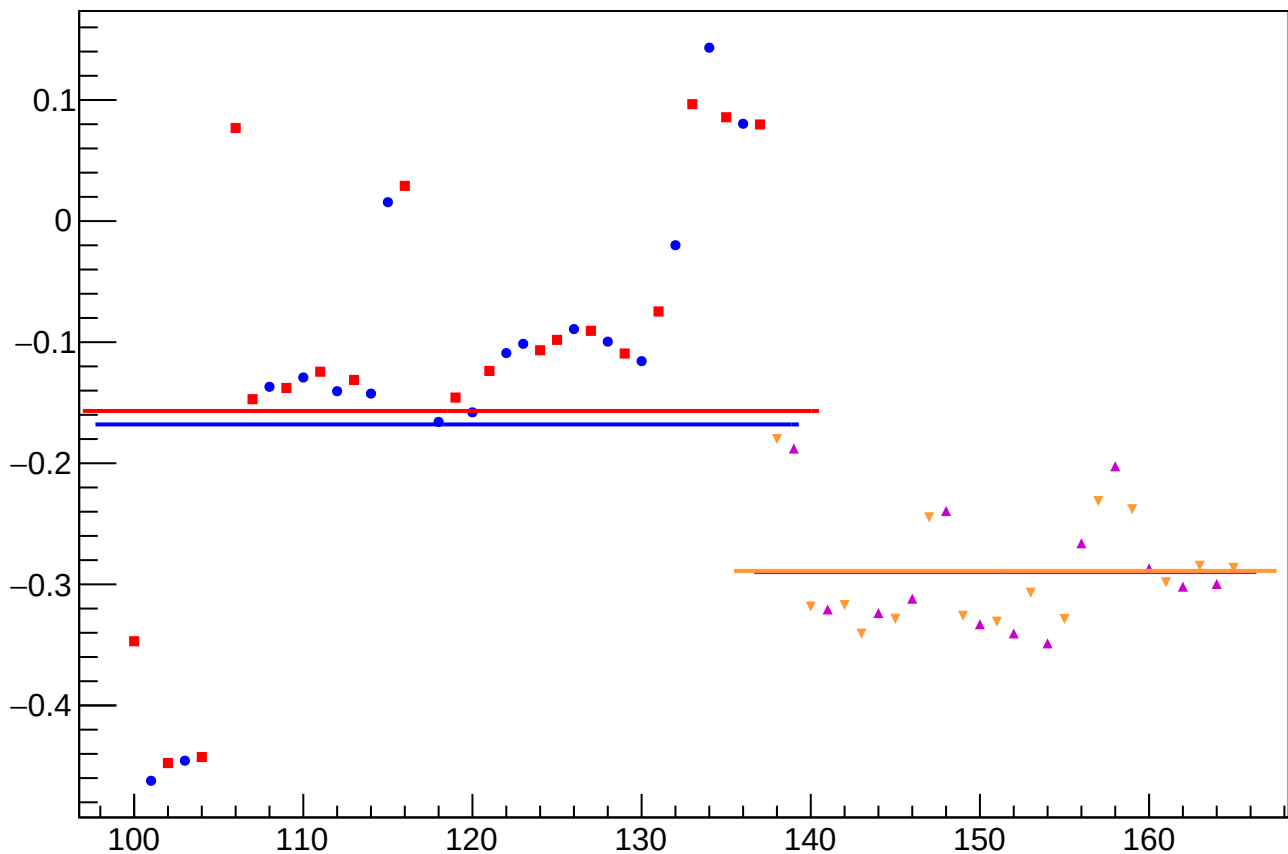
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF : 353570.2/29

Out: 0.010+/-0.000 χ^2/NDF : 485525.7/33

All: 0.011+/-0.000 χ^2/NDF : 842832.8/63

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000

χ^2/NDF : 12331812610.6/16

Left: -0.289+/-0.000

χ^2/NDF : 5731604968.1/27

Left Out: -0.289+/-0.000

χ^2/NDF : 2669311667.0/14

Right: -0.162+/-0.000

χ^2/NDF : 23377980189.6/35

Right Out: -0.157+/-0.000

χ^2/NDF : 11026962470.3/18

In: -0.265+/-0.000

χ^2/NDF : 19086094962.5/29

Out: -0.264+/-0.000

χ^2/NDF : 18029409627.2/33

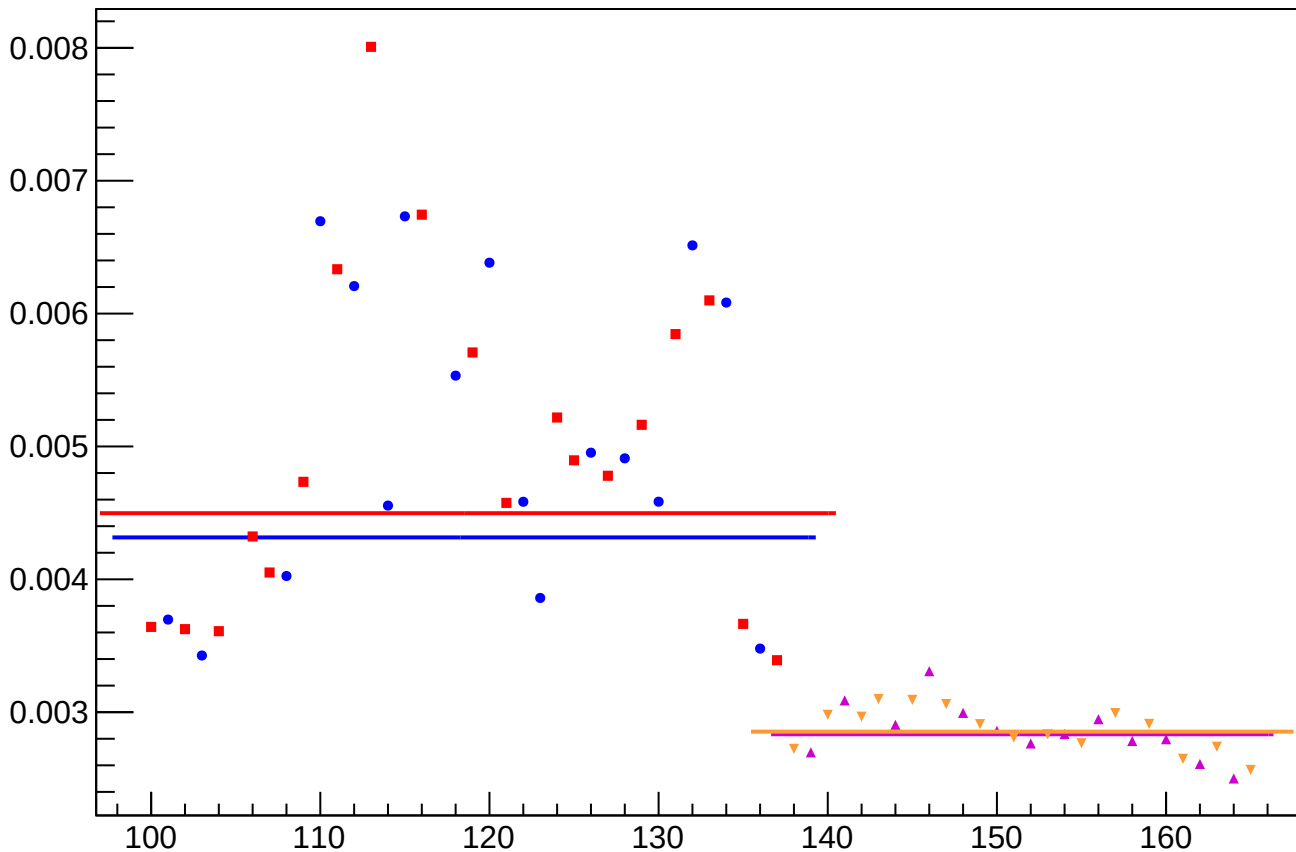
Left In: -0.290+/-0.000

χ^2/NDF : 3061657148.7/12

All: -0.264+/-0.000

χ^2/NDF : 37117349048.0/35

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF : 62597.0/14

Right Out: 0.004+/-0.000 χ^2/NDF : 649708.4/18

Left In: 0.003+/-0.000 χ^2/NDF : 84198.0/12

Left: 0.003+/-0.000 χ^2/NDF : 147291.6/27

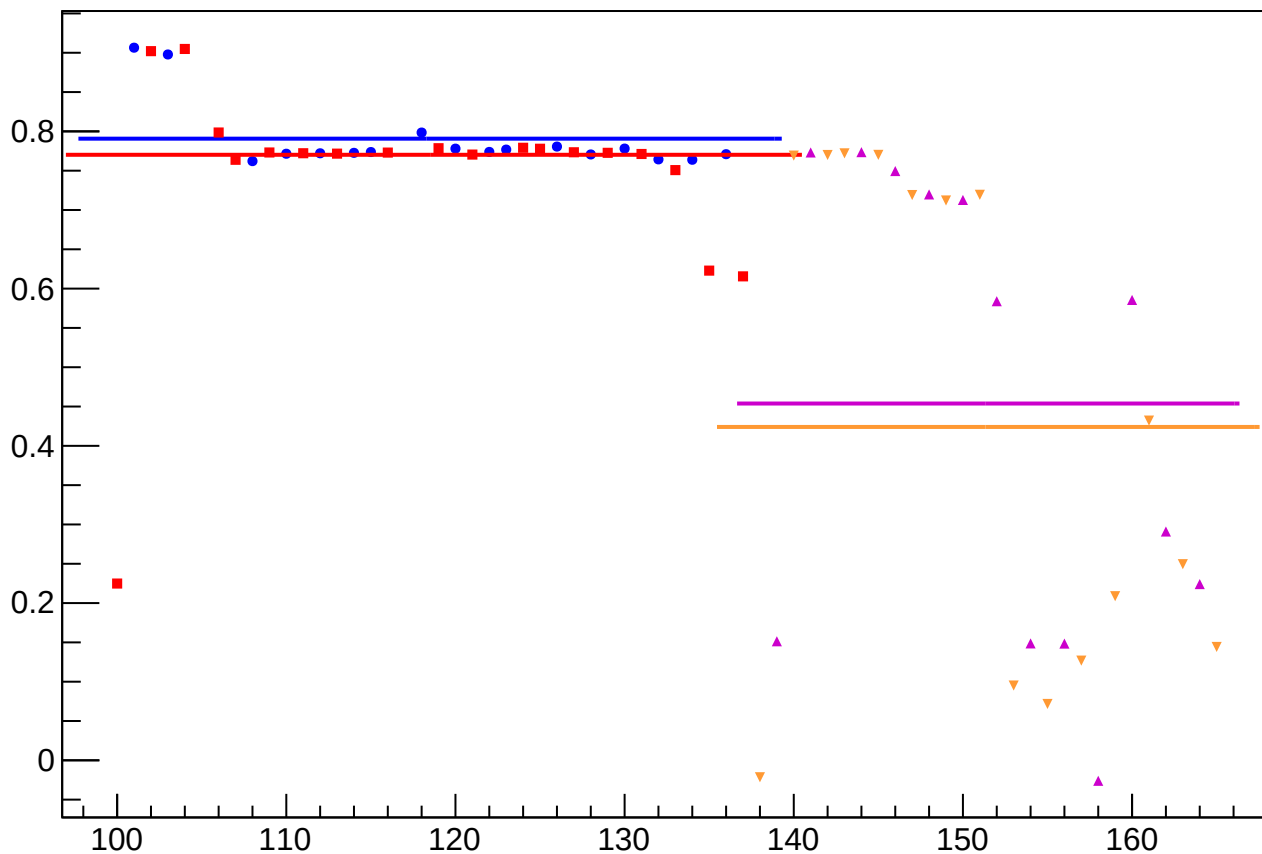
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF : 1794337.9/29

Out: 0.003+/-0.000 χ^2/NDF : 2055293.0/33

All: 0.003+/-0.000 χ^2/NDF : 3851425.5/63

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.424+/-0.000 χ^2/NDF : 7648661123.9/14

Right Out: 0.770+/-0.000 χ^2/NDF : 375442189.7/18

Left In: 0.454+/-0.000 χ^2/NDF : 6498993842.6/12

Left: 0.438+/-0.000 χ^2/NDF : 14184284154.4/27

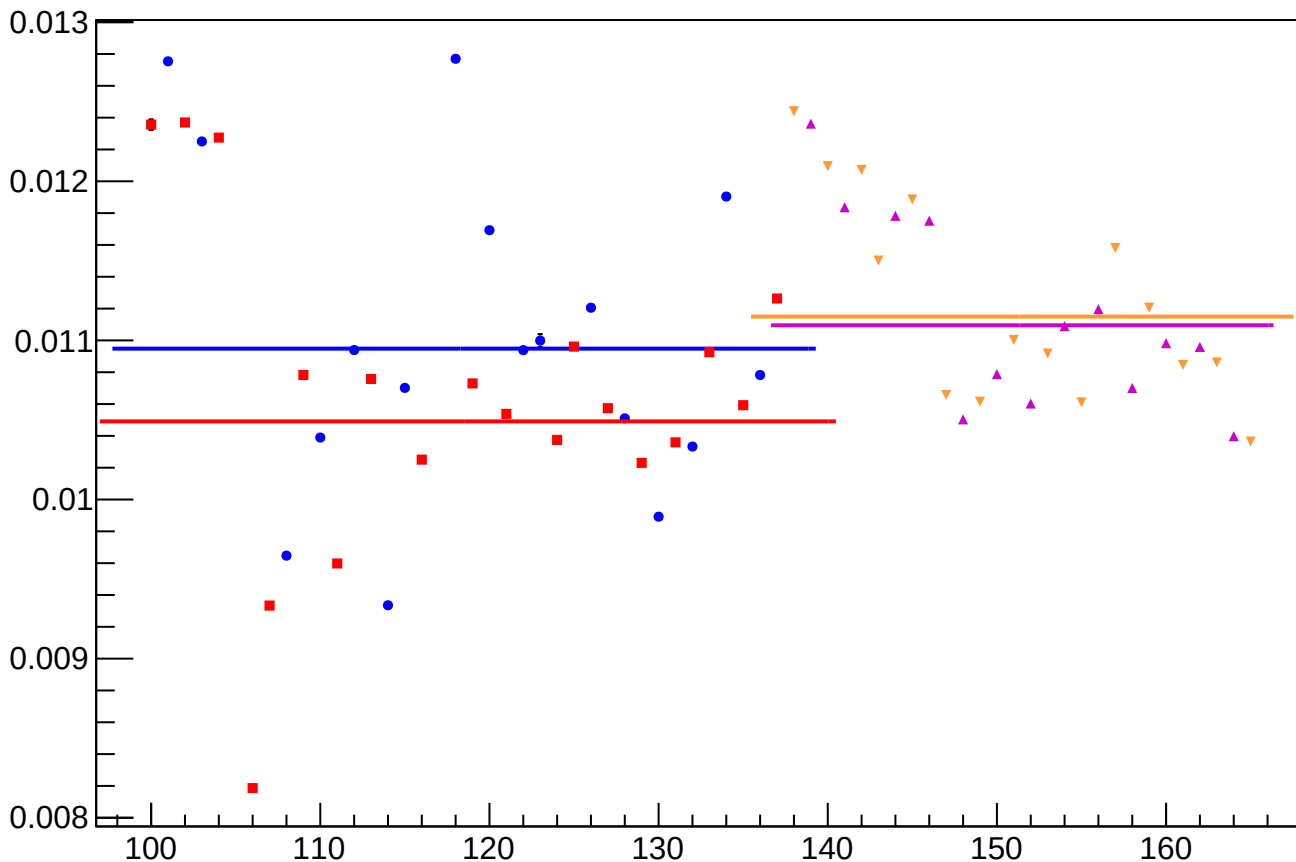
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.589+/-0.000 χ^2/NDF : 10254979859.1/29

Out: 0.571+/-0.000 χ^2/NDF : 12352272160.9/33

All: 0.580+/-0.000 χ^2/NDF : 22631135634.7/66

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98551.4/16

Left Out: 0.011+/-0.000 χ^2/NDF : 58075.9/14

Right Out: 0.010+/-0.000 χ^2/NDF : 119420.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 47968.8/12

Left: 0.011+/-0.000 χ^2/NDF : 106289.7/27

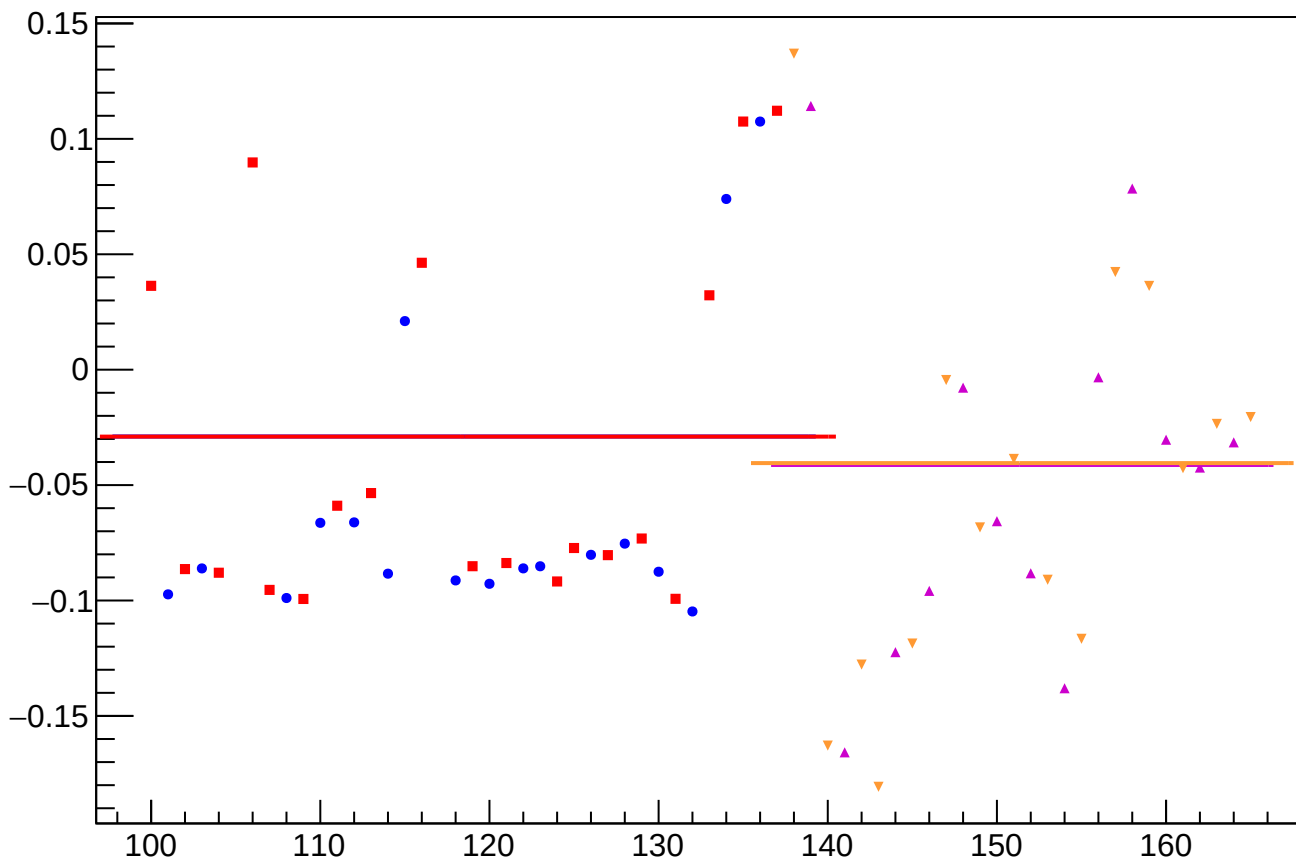
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 147903.9/29

Out: 0.011+/-0.000 χ^2/NDF : 208832.3/33

All: 0.011+/-0.000 χ^2/NDF : 360597.1/63

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.041+/-0.000

χ^2/NDF : 12502446260.5/27

Left Out: -0.040+/-0.000

χ^2/NDF : 6669920398.0/14

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.038+/-0.000

χ^2/NDF : 8313789587.2/29

Out: -0.038+/-0.000

χ^2/NDF : 8813491421.0/33

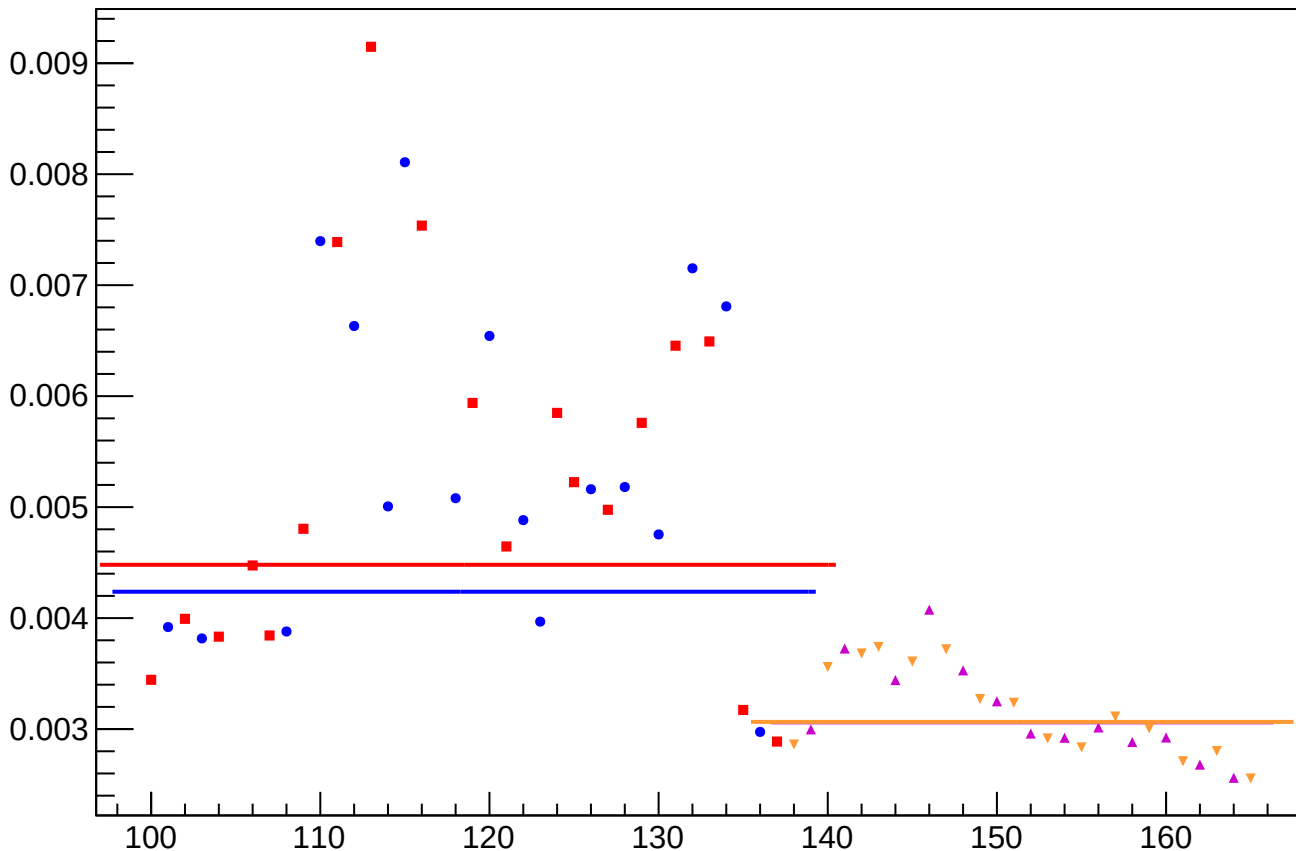
Left In: -0.041+/-0.000

χ^2/NDF : 5832184242.8/12

All: -0.038+/-0.000

χ^2/NDF : 17127379236.8/100

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003+/-0.000 χ^2/NDF : 277747.8/14

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 271385.7/12

Left: 0.003+/-0.000 χ^2/NDF : 549150.4/27

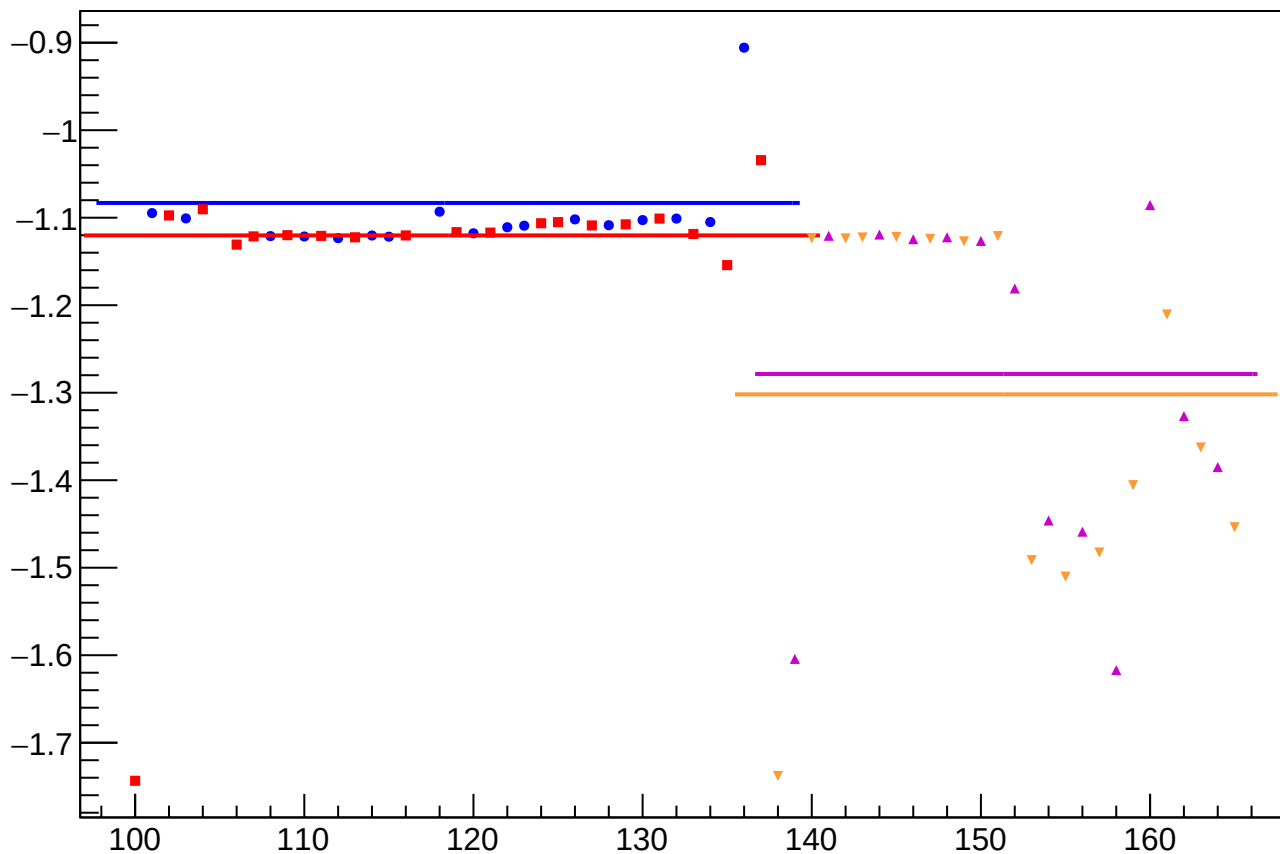
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1801972.1/29

Out: 0.003+/-0.000 χ^2/NDF : 2182185.6/33

All: 0.003+/-0.000 χ^2/NDF : 3985472.0/63

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.302+/-0.000 χ^2/NDF : 3751779588.8/14

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.279+/-0.000 χ^2/NDF : 3432530802.1/12

Left: -1.291+/-0.000 χ^2/NDF : 7211931030.9/27

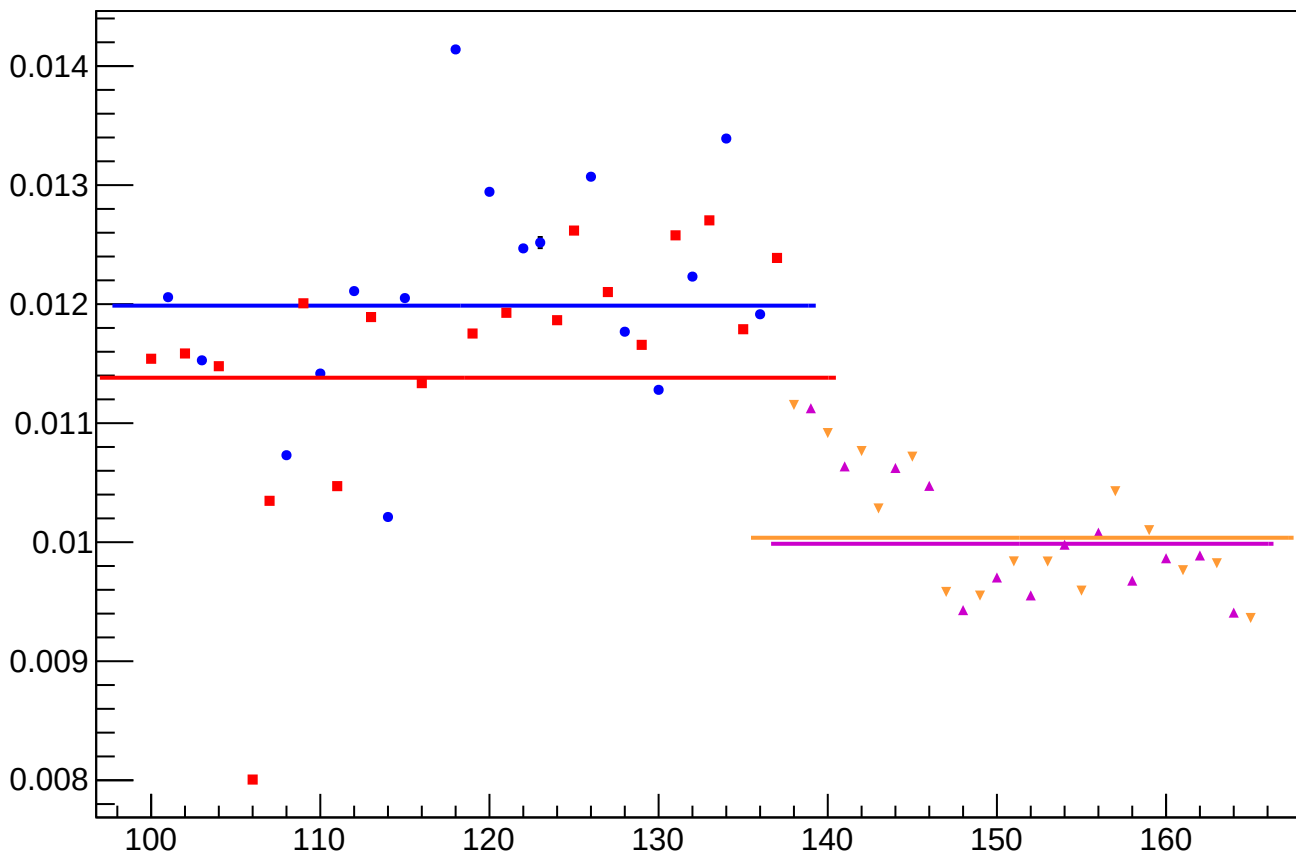
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.218+/-0.000 χ^2/NDF : 4814944493.2/29

Out: -1.241+/-0.000 χ^2/NDF : 5134424710.4/33

All: -1.230+/-0.000 χ^2/NDF : 9990894712.1/6

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 60402.0/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:55763.3/14

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:45808.2/12

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 101835.1/27

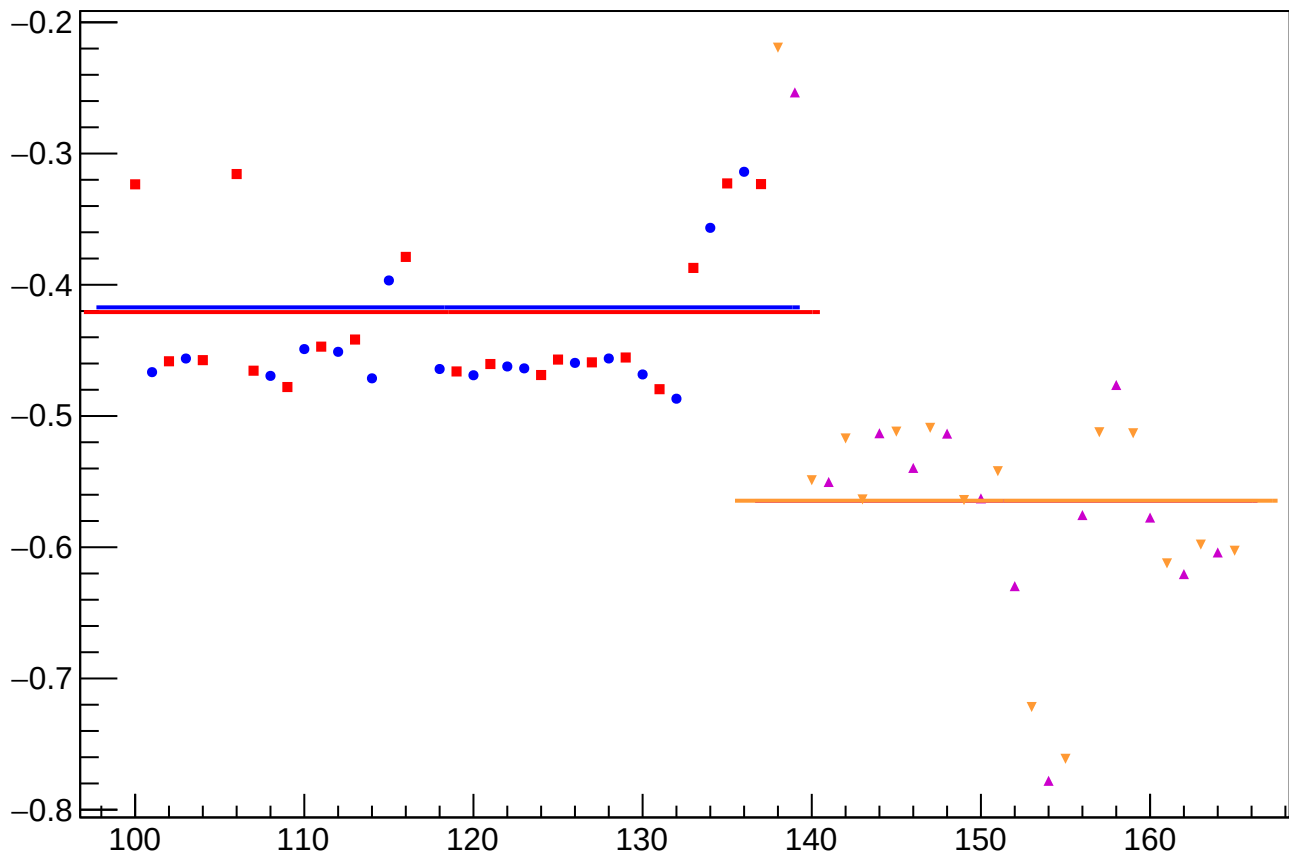
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:353294.7/29

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:337625.0/33

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 693208.0/63

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417 ± 0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.565 ± 0.000 χ^2/NDF : 13076349997.9/14

Right Out: -0.421 ± 0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.565 ± 0.000 χ^2/NDF : 10405294123.6/12

Left: -0.565 ± 0.000 χ^2/NDF : 23481663230.6/27

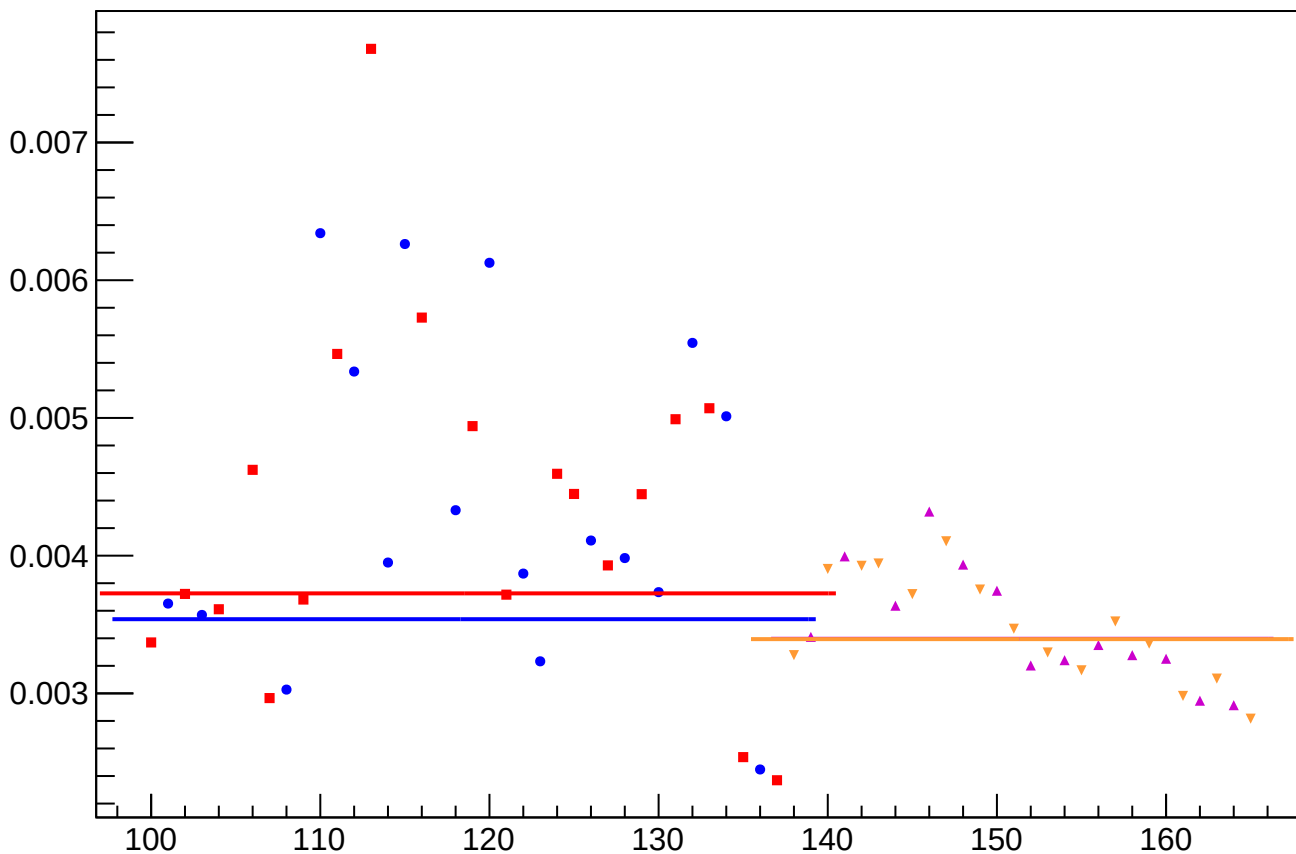
Right: -0.419 ± 0.000 χ^2/NDF : 3688293301.3/35

In: -0.514 ± 0.000 χ^2/NDF : 18627344676.8/29

Out: -0.518 ± 0.000 χ^2/NDF : 20622782972.5/33

All: -0.516 ± 0.000 χ^2/NDF : 39262778940.7/71

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 836154.0/16

Left Out: 0.003+/-0.000 χ^2/NDF :230719.4/14

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF :223628.1/12

Left: 0.003+/-0.000 χ^2/NDF : 454352.8/27

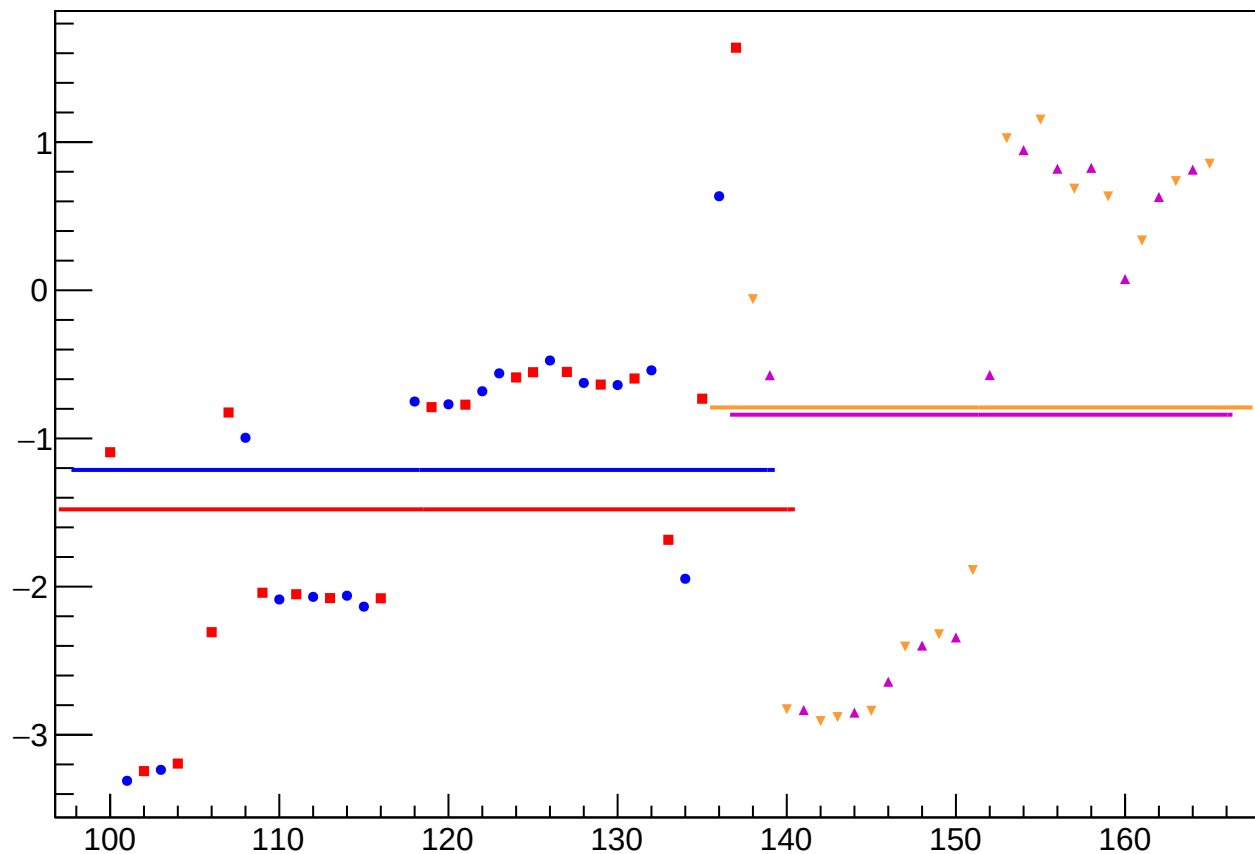
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF :1071272.5/29

Out: 0.004+/-0.000 χ^2/NDF :1192209.1/33

All: 0.003+/-0.000 χ^2/NDF : 2267440.3/63

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212+/-0.000 χ^2/NDF : 1992853443.9/16

Left Out: -0.791+/-0.000 χ^2/NDF : 5108483277.7/14

Right Out: -1.478+/-0.000 χ^2/NDF : 1578264383.8/18

Left In: -0.840+/-0.000 χ^2/NDF : 4200057566.3/12

Left: -0.814+/-0.000 χ^2/NDF : 9310737664.6/27

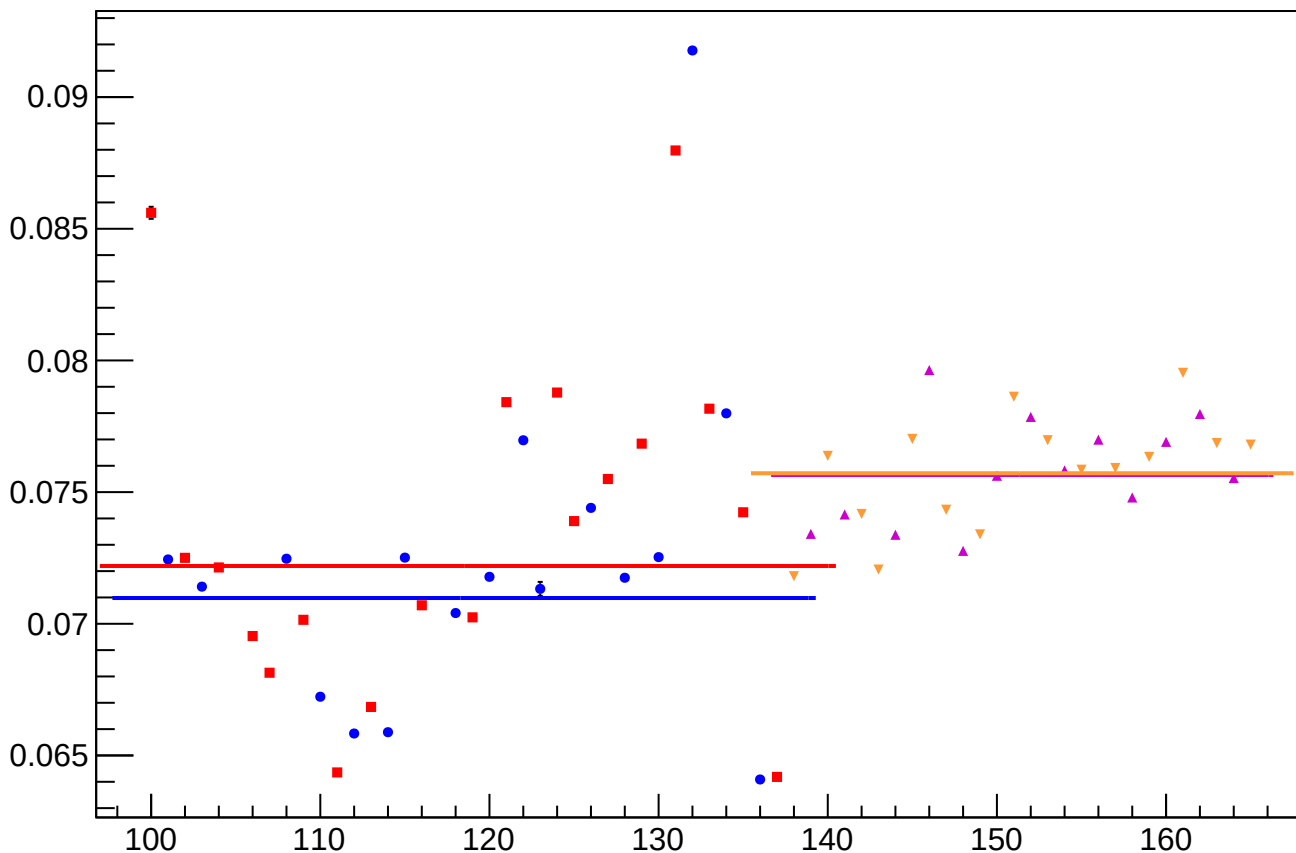
Right: -1.347+/-0.000 χ^2/NDF : 3617796481.7/35

In: -0.998+/-0.000 χ^2/NDF : 6297062623.2/29

Out: -1.074+/-0.000 χ^2/NDF : 7057762833.5/33

All: -1.037+/-0.000 χ^2/NDF : 13363935120.0/...

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.076+/-0.000 χ^2/NDF : 17514.3/14

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.076+/-0.000 χ^2/NDF : 13449.1/12

Left: 0.076+/-0.000 χ^2/NDF : 30971.6/27

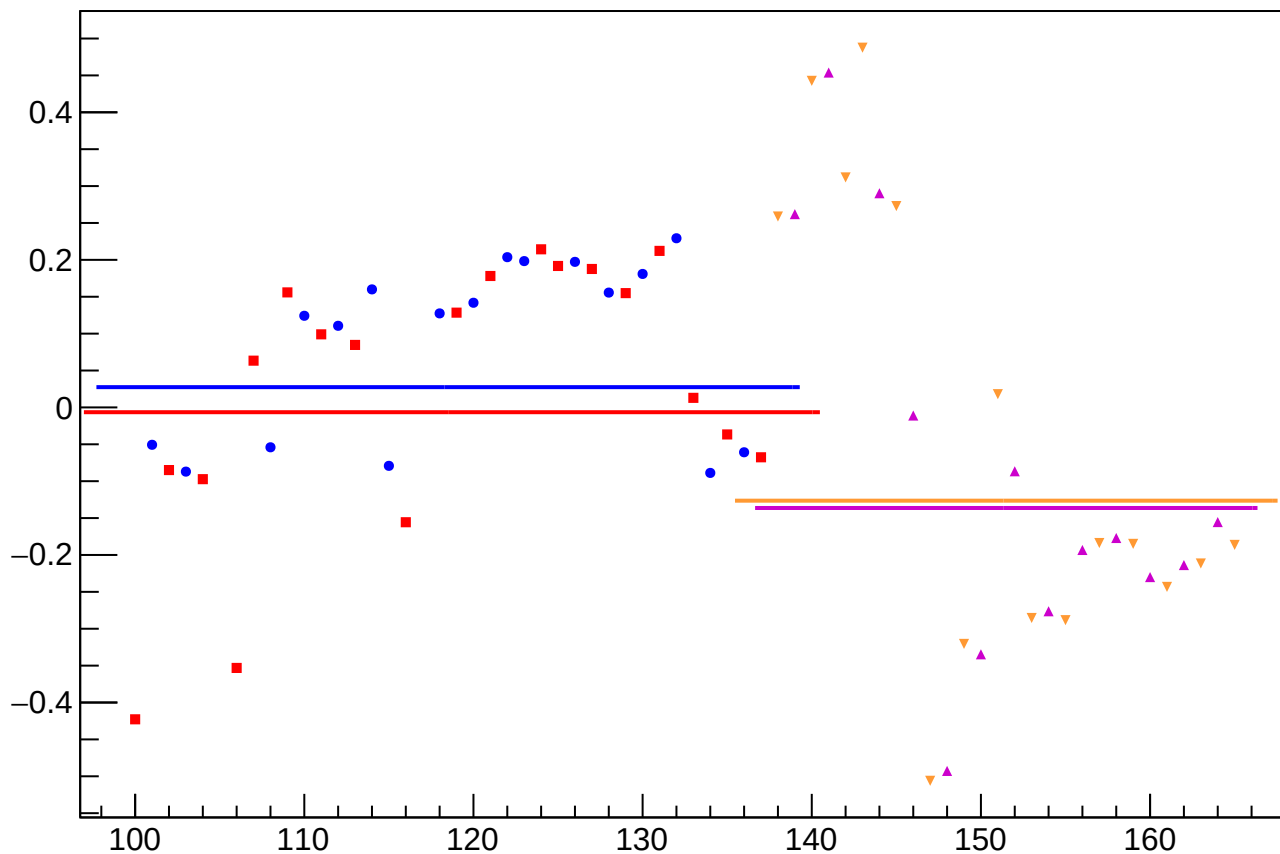
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 123752.6/29

Out: 0.074+/-0.000 χ^2/NDF : 110198.7/33

All: 0.074+/-0.000 χ^2/NDF : 235091.3/63

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027 ± 0.000 $\chi^2/\text{NDF}: 562337631.4/16$

Left Out: -0.126 ± 0.000 $\chi^2/\text{NDF}: 13748796297.1/14$

Right Out: -0.007 ± 0.000 $\chi^2/\text{NDF}: 1199278894.0/18$

Left In: -0.136 ± 0.000 $\chi^2/\text{NDF}: 10204014022.9/12$

Left: -0.131 ± 0.000 $\chi^2/\text{NDF}: 23963992336.7/27$

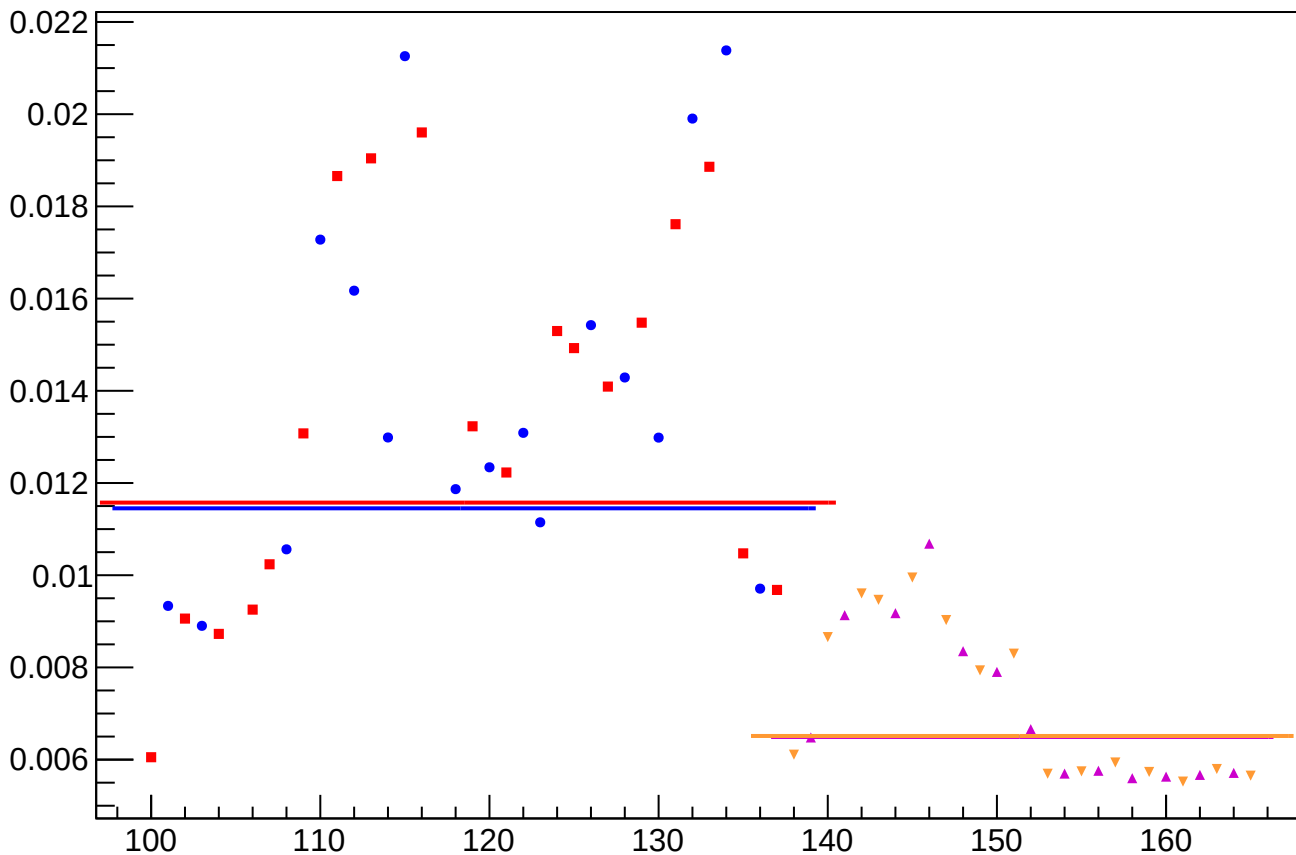
Right: 0.010 ± 0.000 $\chi^2/\text{NDF}: 1787030042.0/35$

In: -0.109 ± 0.000 $\chi^2/\text{NDF}: 11747387313.3/29$

Out: -0.107 ± 0.000 $\chi^2/\text{NDF}: 15483858010.3/33$

All: -0.108 ± 0.000 $\chi^2/\text{NDF}: 27231680716.7/70$

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.007+/-0.000 χ^2/NDF : 872919.5/14

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 777967.6/12

Left: 0.007+/-0.000 χ^2/NDF : 1651000.7/27

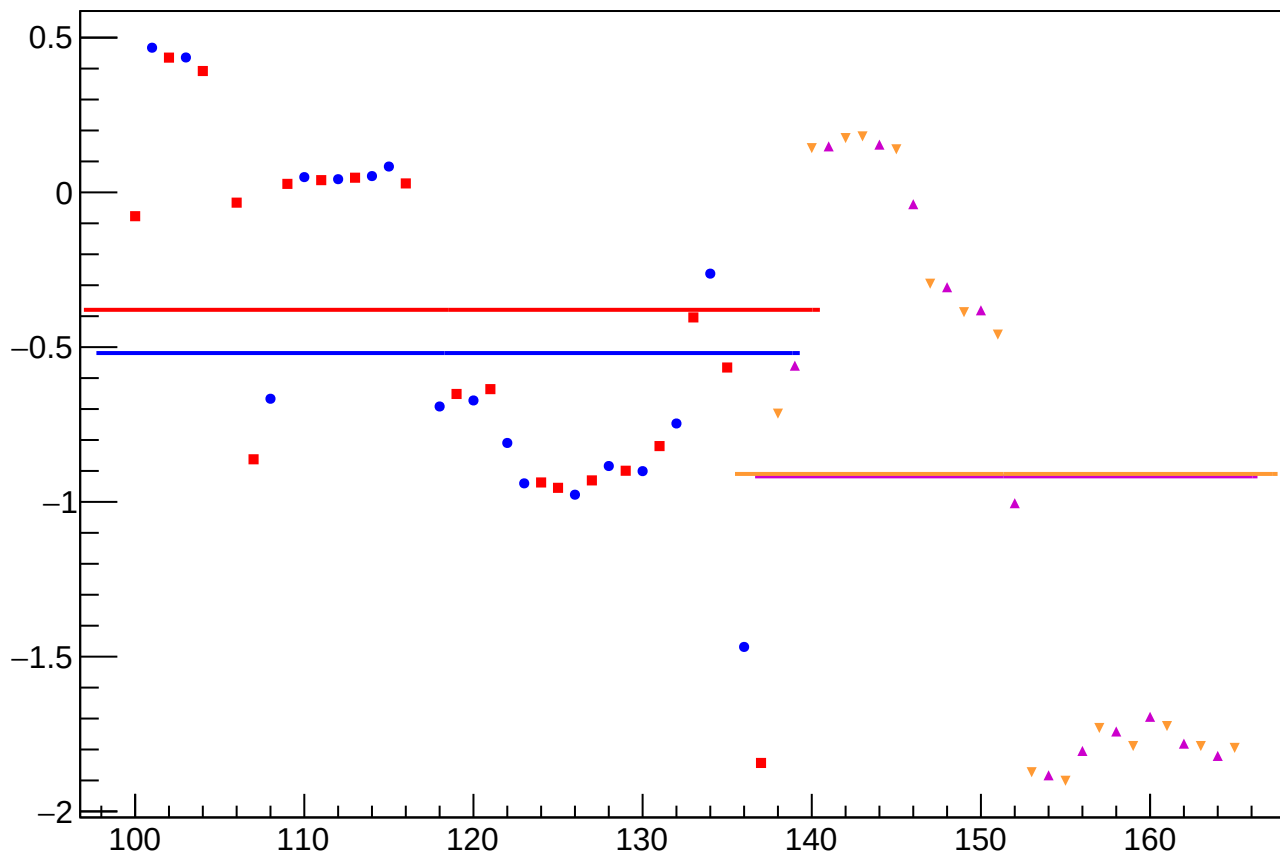
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF : 3256918.8/29

Out: 0.007+/-0.000 χ^2/NDF : 3779574.5/33

All: 0.007+/-0.000 χ^2/NDF : 7036496.1/63

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519+/-0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.910+/-0.000 χ^2/NDF : 1010802790.7/14

Right Out: -0.379+/-0.000 χ^2/NDF : 268621179.0/18

Left In: -0.918+/-0.000 χ^2/NDF : 855517538.9/12

Left: -0.913+/-0.000 χ^2/NDF : 1866362273.3/27

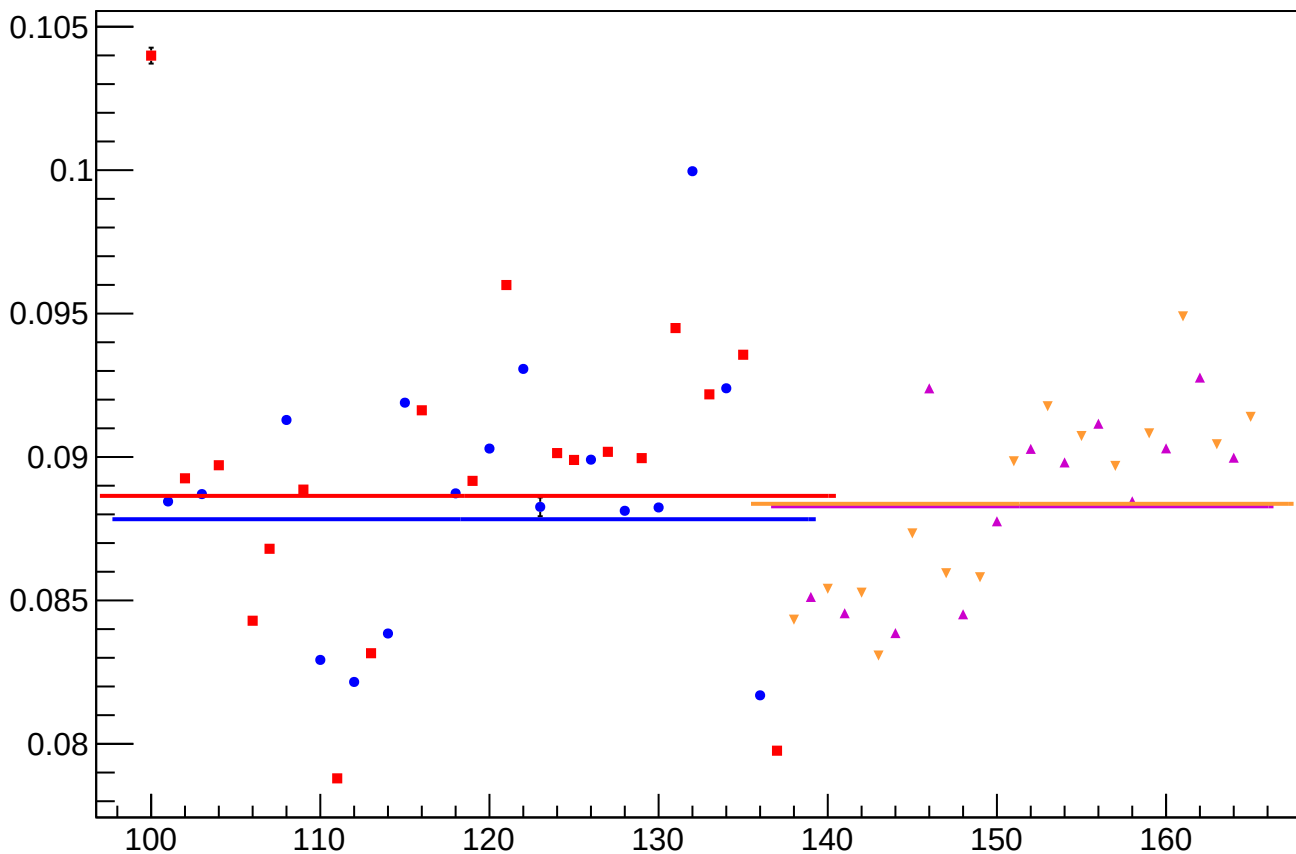
Right: -0.448+/-0.000 χ^2/NDF : 616632603.2/35

In: -0.759+/-0.000 χ^2/NDF : 1277695009.4/29

Out: -0.703+/-0.000 χ^2/NDF : 1434296069.0/33

All: -0.730+/-0.000 χ^2/NDF : 2715497159.5/6

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 34954.4/16

Left Out: 0.088 $\pm$ 0.000 χ^2 /NDF:29361.9/14

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 39722.9/18

Left In: 0.088 $\pm$ 0.000 χ^2 /NDF:23833.9/12

Left: 0.088 $\pm$ 0.000 χ^2 /NDF: 53206.1/27

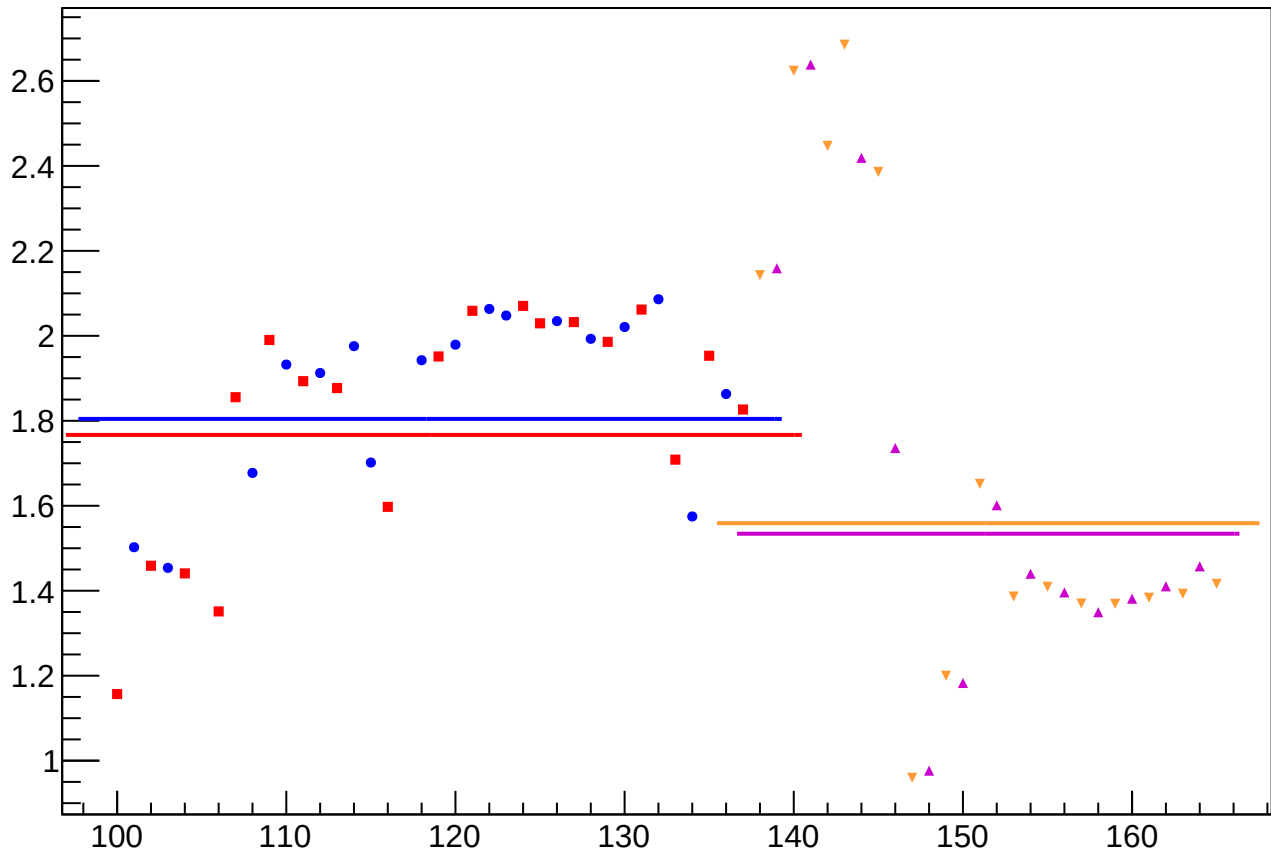
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 75262.5/35

In: 0.088 $\pm$ 0.000 χ^2 /NDF:58999.2/29

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:69169.0/33

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 128482.3/63

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.559 $\pm$ 0.000 χ^2 /NDF: 23234801495.7/14

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1709259284.5/18

Left In: 1.534 $\pm$ 0.000 χ^2 /NDF: 17869355457.0/12

Left: 1.547 $\pm$ 0.000 χ^2 /NDF: 41143409521.8/27

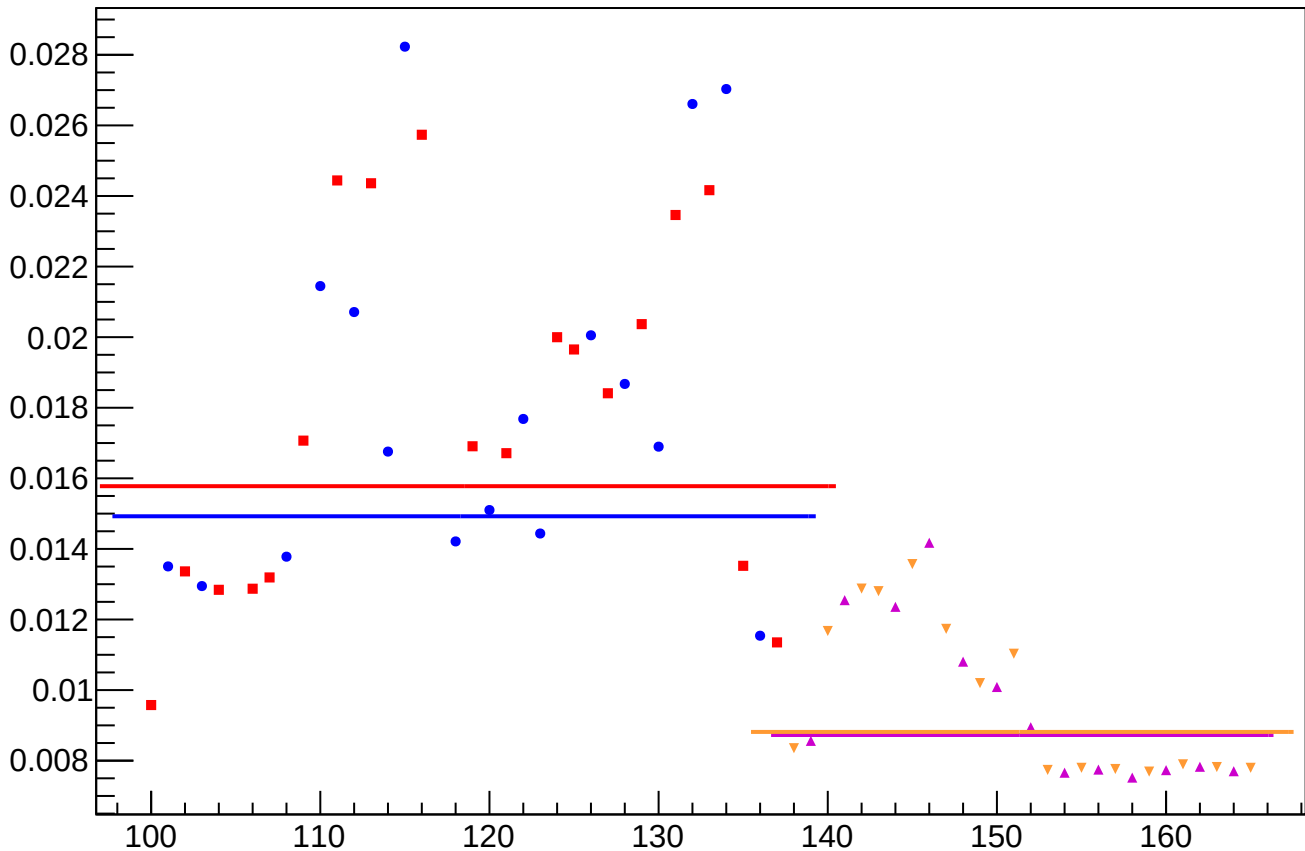
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.581 $\pm$ 0.000 χ^2 /NDF: 20586813485.6/29

Out: 1.592 $\pm$ 0.000 χ^2 /NDF: 25826133169.7/33

All: 1.586 $\pm$ 0.000 χ^2 /NDF: 46421735096.9/66

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.009+/-0.000 χ^2/NDF :804202.4/14

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF :723910.4/12

Left: 0.009+/-0.000 χ^2/NDF : 1529075.7/27

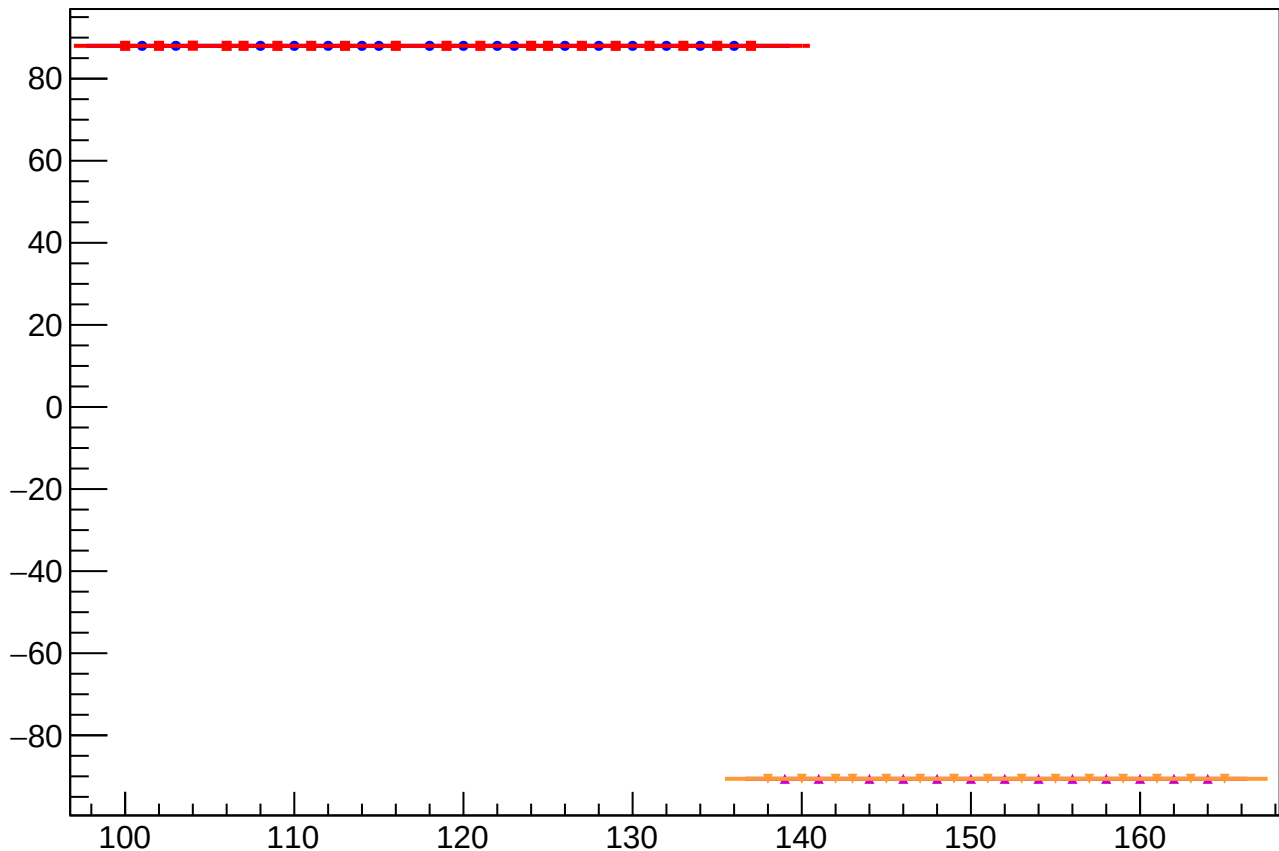
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF :3008793.0/29

Out: 0.010+/-0.000 χ^2/NDF :3572214.7/33

All: 0.010+/-0.000 χ^2/NDF : 6582785.1/63

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1852068.7/16

Left Out: -90.599+/-0.000 χ^2/NDF : 5306597.9/14

Right Out: 88.004+/-0.000 χ^2/NDF : 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 2934916.0/12

Left: -90.599+/-0.000 χ^2/NDF : 8898653.9/27

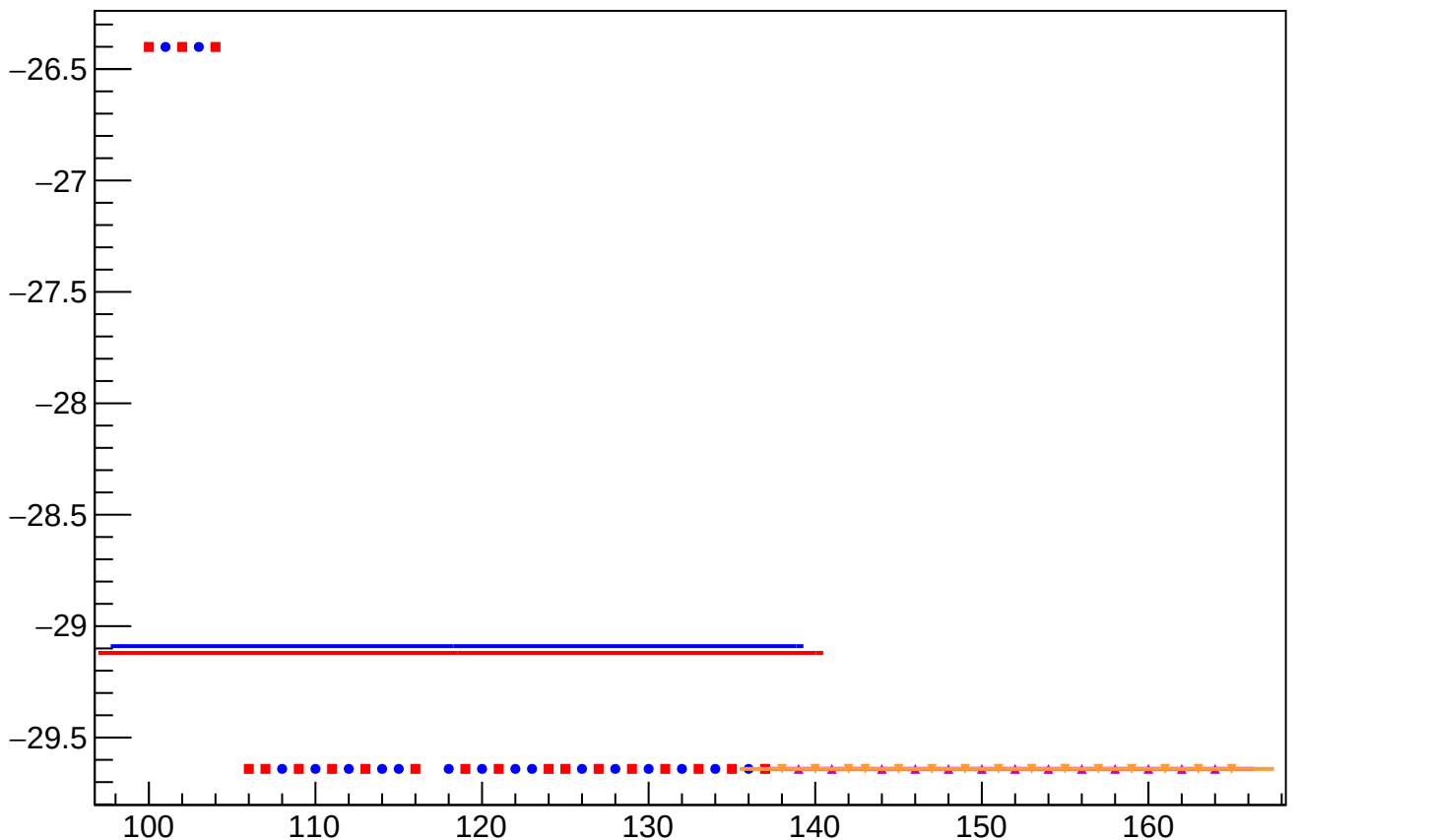
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -19.973+/-0.000 χ^2/NDF : 13383220785549838

Out: -21.641+/-0.000 χ^2/NDF : 1413885646924986

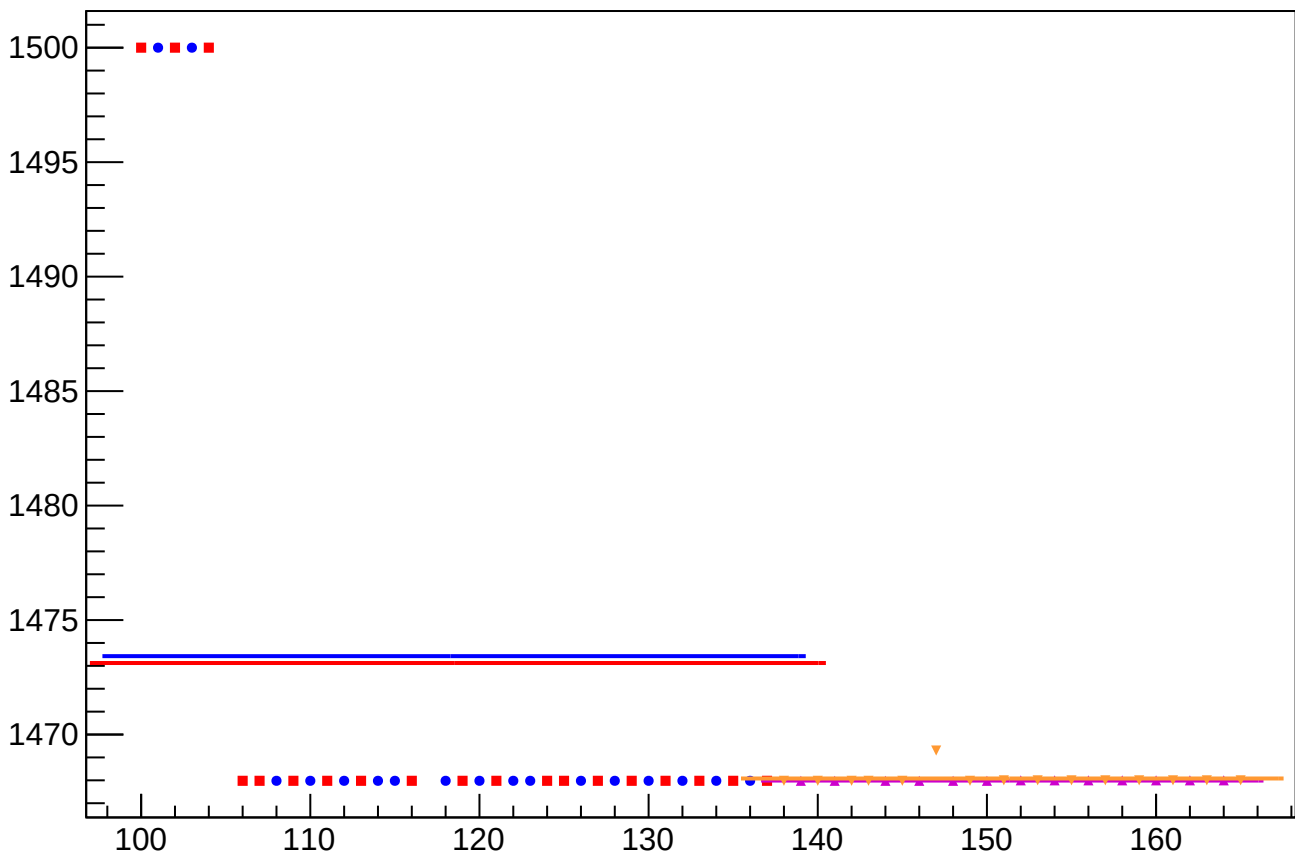
All: -20.834+/-0.000 χ^2/NDF : 275245960302

epics_HWienAngles_mean vs Slug, Sign Corrected



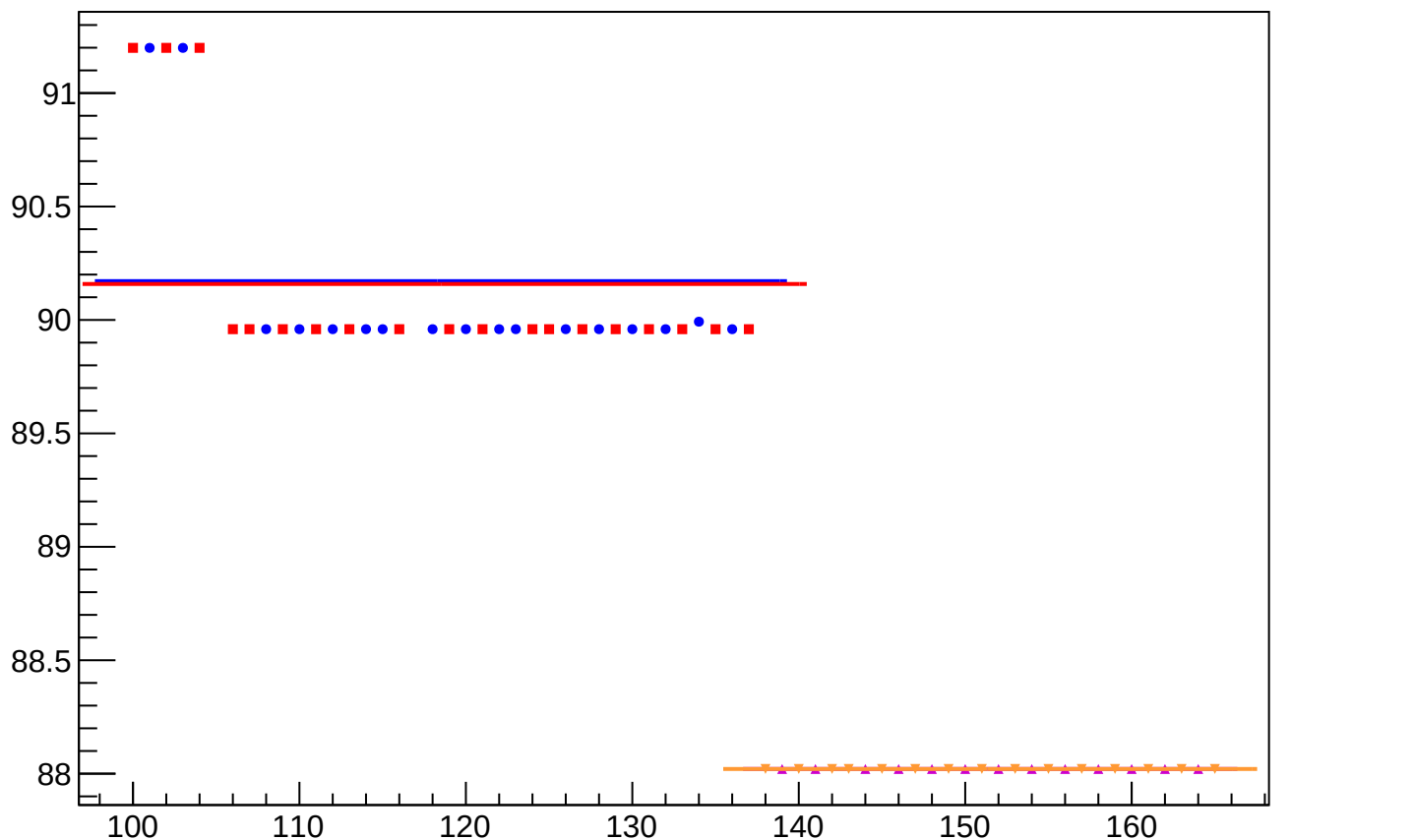
Right In: -29.090+/-0.000 χ^2/NDF : 1028099246109521929793835198578688.0/16
 Left Out: -29.641+/-0.000 χ^2/NDF : 218091.6/14
 Right Out: -29.120+/-0.000 χ^2/NDF : 1022076578393359839206130891882496.0/18
 Left In: -29.641+/-0.000 χ^2/NDF : 88301.9/12
 In: -29.423+/-0.000 χ^2/NDF : 11554298584615279
 Out: -29.440+/-0.000 χ^2/NDF : 1142183789518696
 All: -29.432+/-0.000 χ^2/NDF : 229787106604

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000	χ^2/NDF : 100421295828245505125784497044848640.0/16	Left: 1468.037+/-0.000	χ^2/NDF : 12954263501258
Left Out: 1468.080+/-0.000	χ^2/NDF : 124941602692703515672762310983680.0/14	Right: 1473.271+/-0.000	χ^2/NDF : 20028613298037
Right Out: 1473.124+/-0.000	χ^2/NDF : 99833021788859785886082809393577984.0/18	In: 1470.139+/-0.000	χ^2/NDF : 1128104493635236
Left In: 1467.990+/-0.000	χ^2/NDF : 105771913263444913089585086464.0/12	Out: 1470.028+/-0.000	χ^2/NDF : 111234209563856
		All: 1470.081+/-0.000	χ^2/NDF : 22405583827

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 4477599.7/14

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 3025792.8/12

Left: 88.021+/-0.000 χ^2/NDF : 8435586.3/27

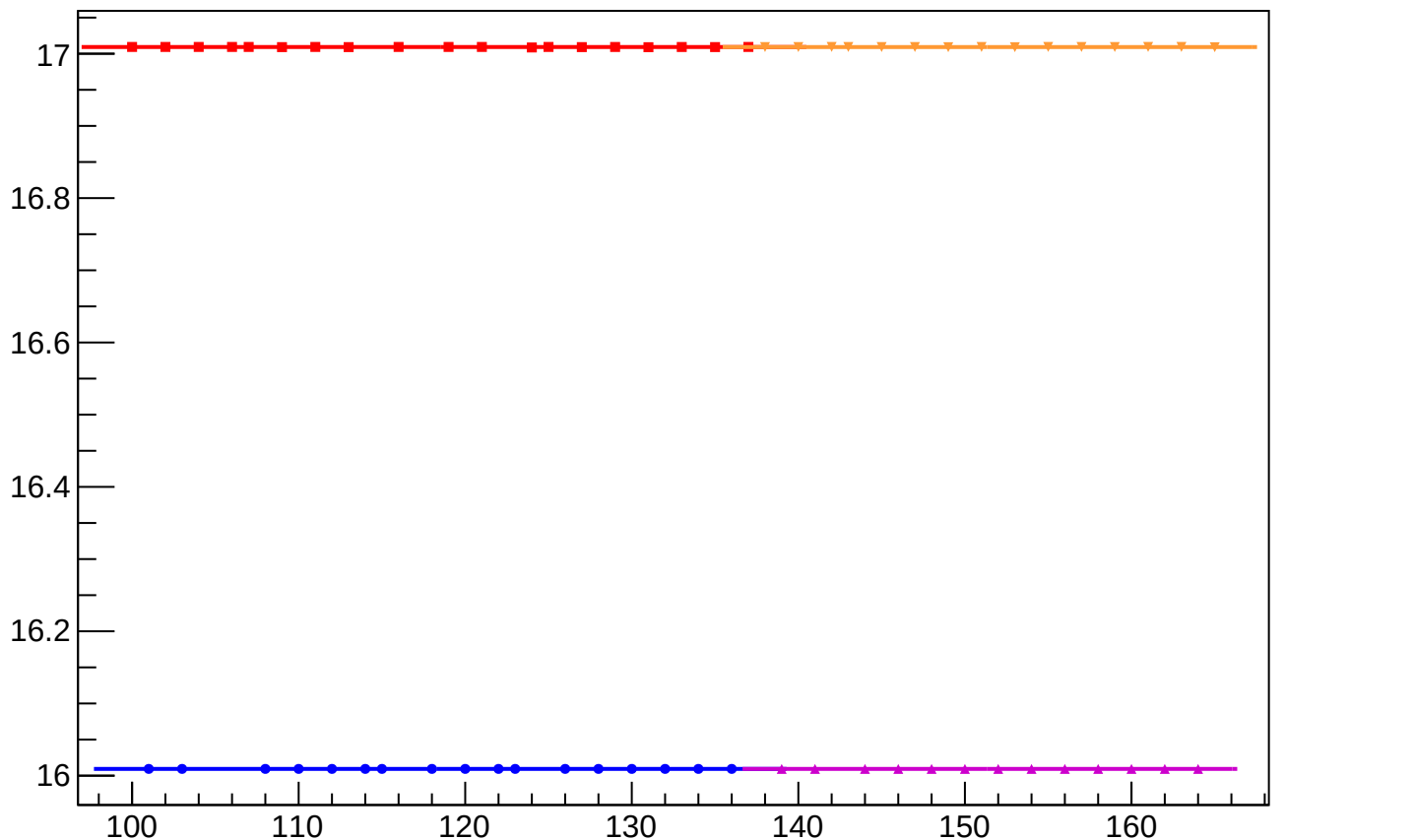
Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

In: 88.871+/-0.000 χ^2/NDF : 209052433567956558

Out: 88.846+/-0.000 χ^2/NDF : 21754231763344700

All: 88.858+/-0.000 χ^2/NDF : 4266511796970

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 44327.7/16

Left Out: 17.009+/-0.000 χ^2/NDF : 17725488698456462548008960.0/14

Right Out: 17.009+/-0.000 χ^2/NDF : 12516014336037541461884928.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 48808.4/12

Left: 16.524+/-0.000 χ^2/NDF : 50690807972103779

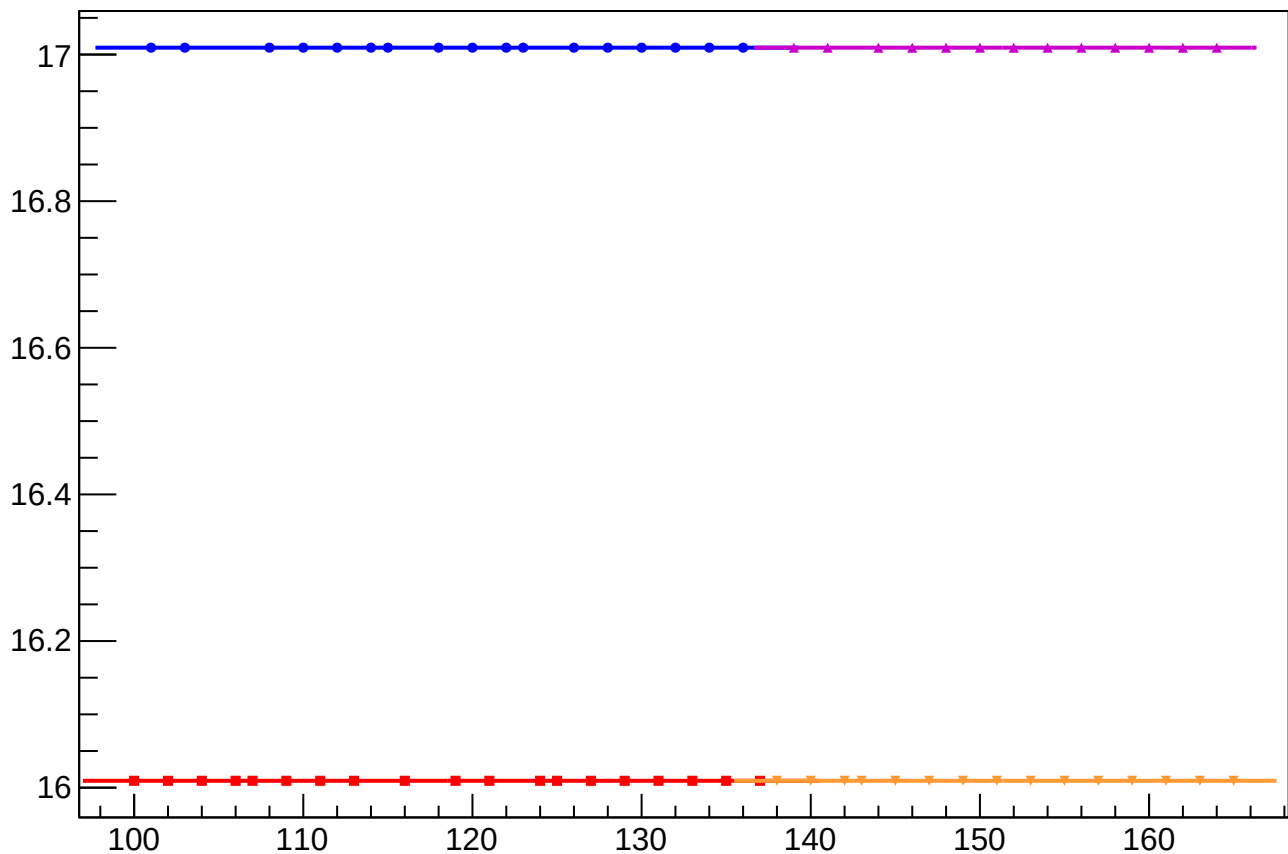
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 188481.0/29

Out: 17.009+/-0.000 χ^2/NDF : 31491449142589301

All: 16.517+/-0.000 χ^2/NDF : 8360888147472

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 132629.6/16

Left Out: 16.009+/-0.000 χ^2/NDF : 53857.1/14

Right Out: 16.009+/-0.000 χ^2/NDF : 39518.8/18

Left In: 17.009+/-0.000 χ^2/NDF : 35404.1/12

Left: 16.487+/-0.000 χ^2/NDF : 54412654745526679

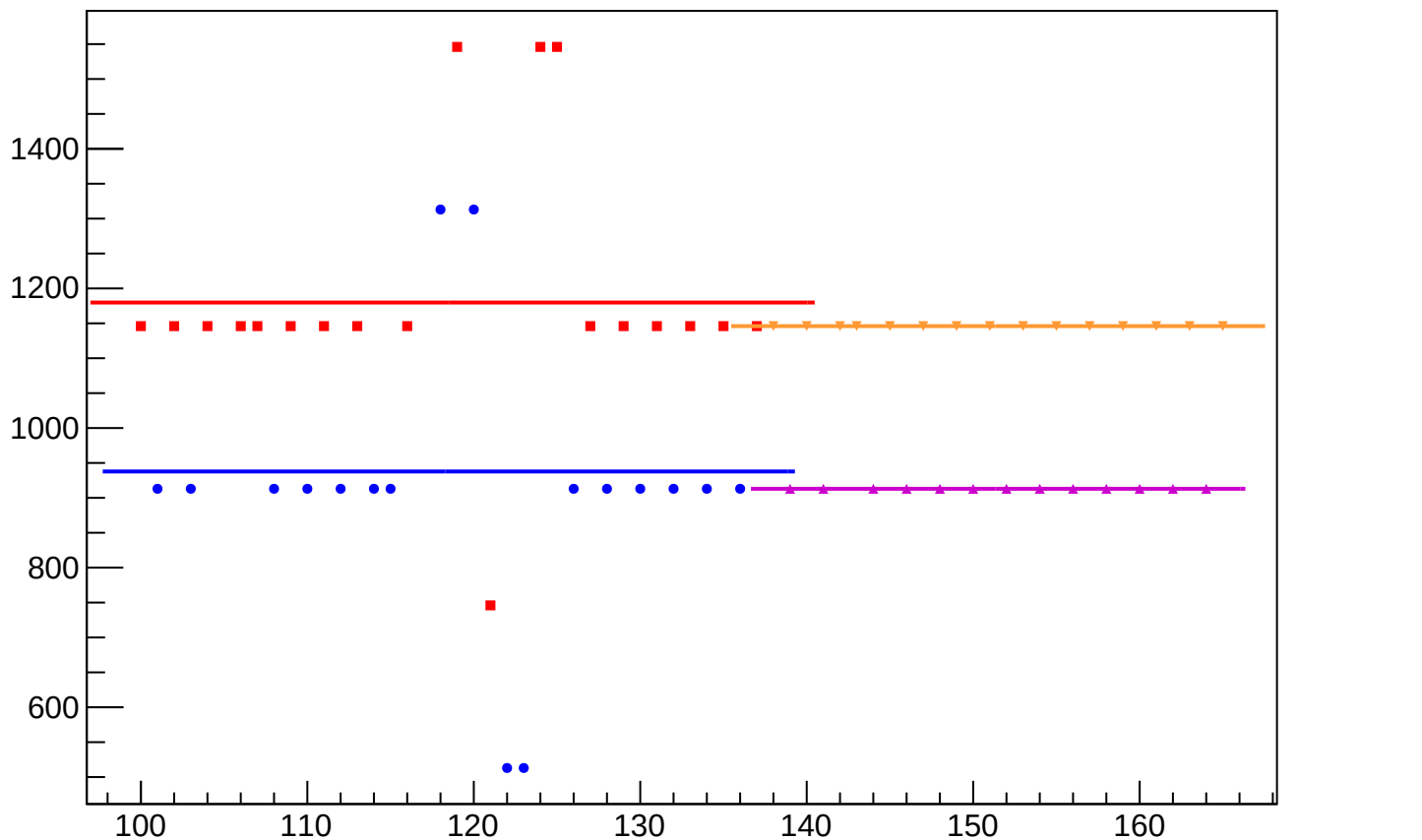
Right: 16.490+/-0.000 χ^2/NDF : 3437400145243126

In: 17.009+/-0.000 χ^2/NDF : 319028.0/29

Out: 16.009+/-0.000 χ^2/NDF : 210569.1/33

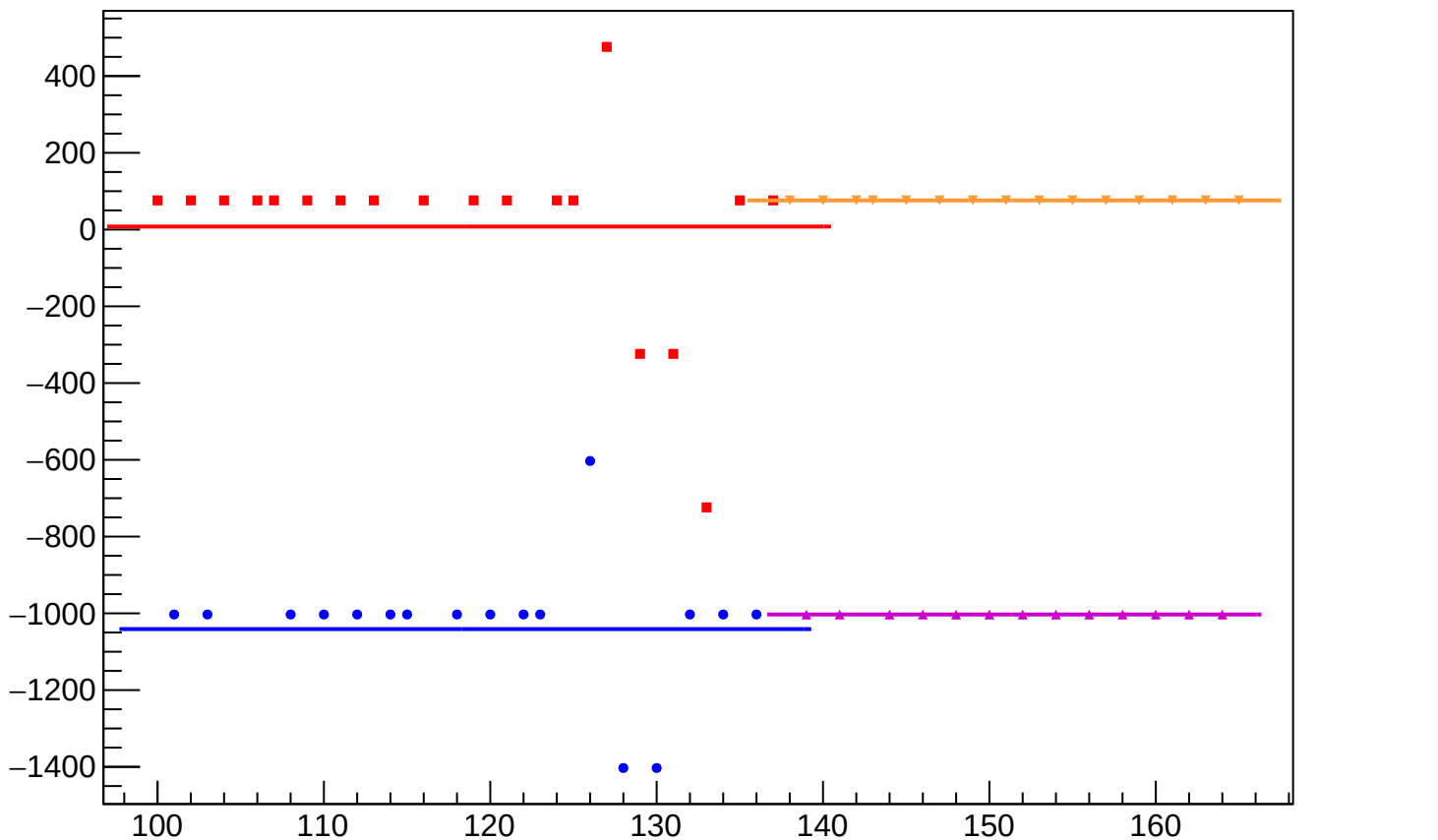
All: 16.488+/-0.000 χ^2/NDF : 8878766160764

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 3929071625948071457223344128.0/14
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 17044628221902655750083182592.0/12
 All: 1044.675+/-0.000 χ^2/NDF : 93571359004

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030+/-0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 9503546090928079927311859712.0/14
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 1387058346642824405245231104.0/12
 All: -467.230+/-0.000 χ^2/NDF : 11013204114