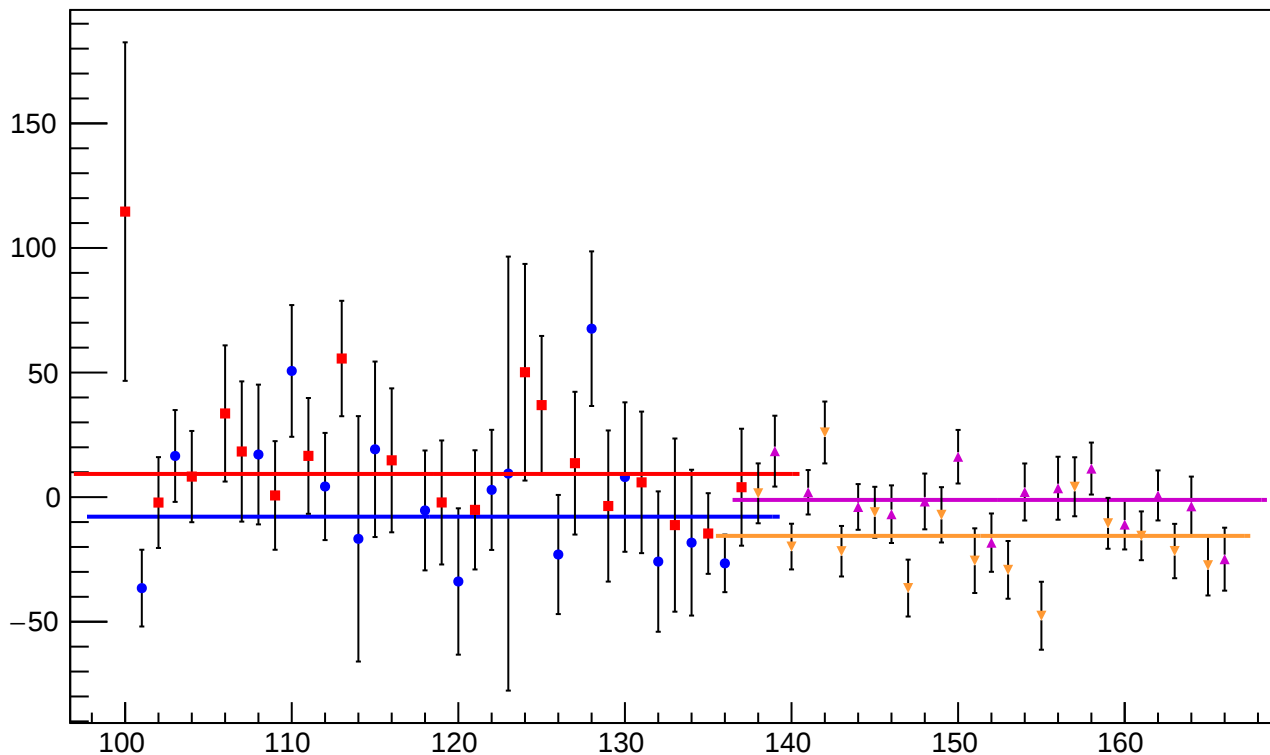


diff_bpm4aX_mean vs Slug, Sign Corrected



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: -1.114 ± 2.922

$\chi^2/\text{NDF}: 13.4/13$

Left: -8.464 ± 2.047

$\chi^2/\text{NDF}: 56.1/28$

Right: 0.629 ± 3.990

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

In: -2.550 ± 2.591

$\chi^2/\text{NDF}: 37.1/30$

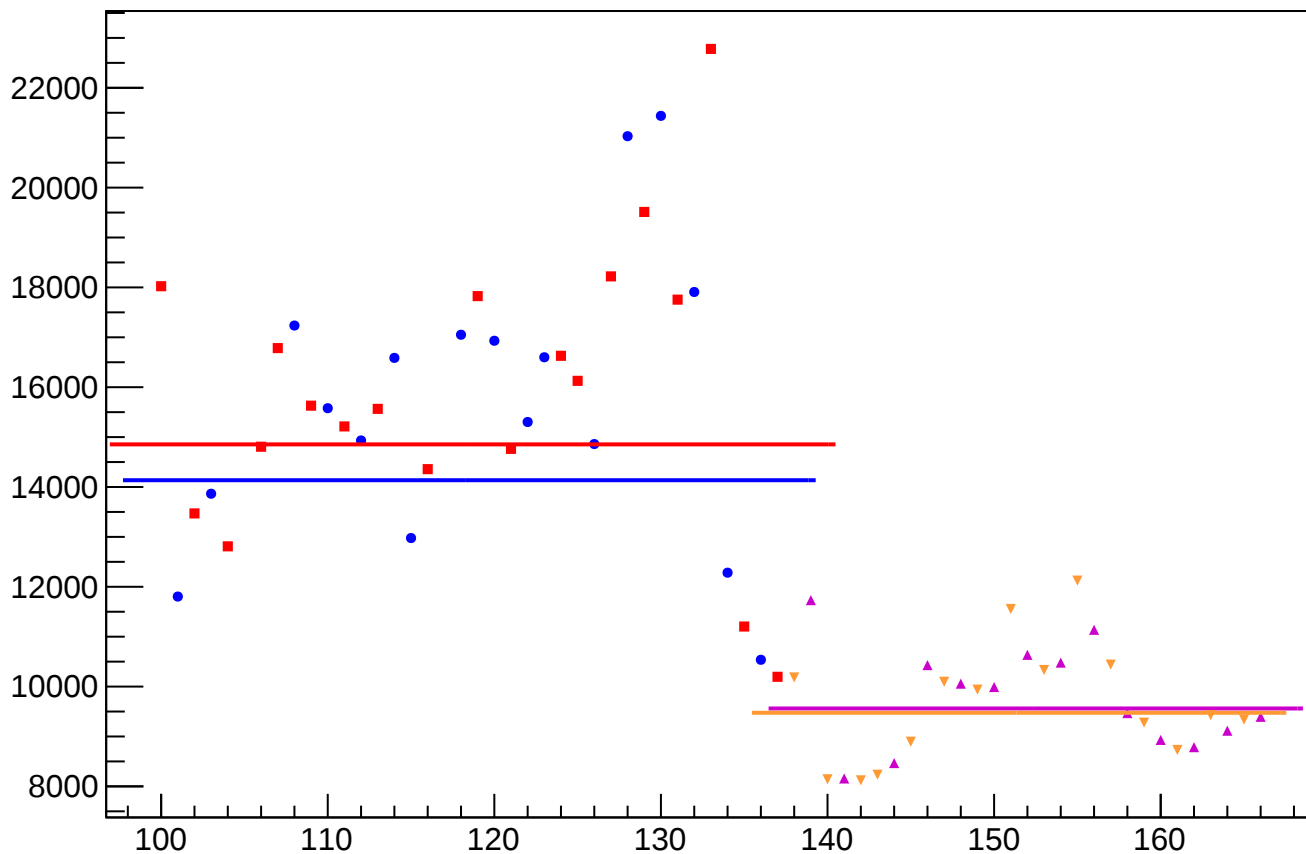
Out: -10.492 ± 2.560

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

All: -6.569 ± 1.821

$\chi^2/\text{NDF}: 100.7/64$

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: 9561.154+/-2.066 χ^2/NDF : 227042.2/13

Left: 9517.395+/-1.448 χ^2/NDF : 510367.1/28

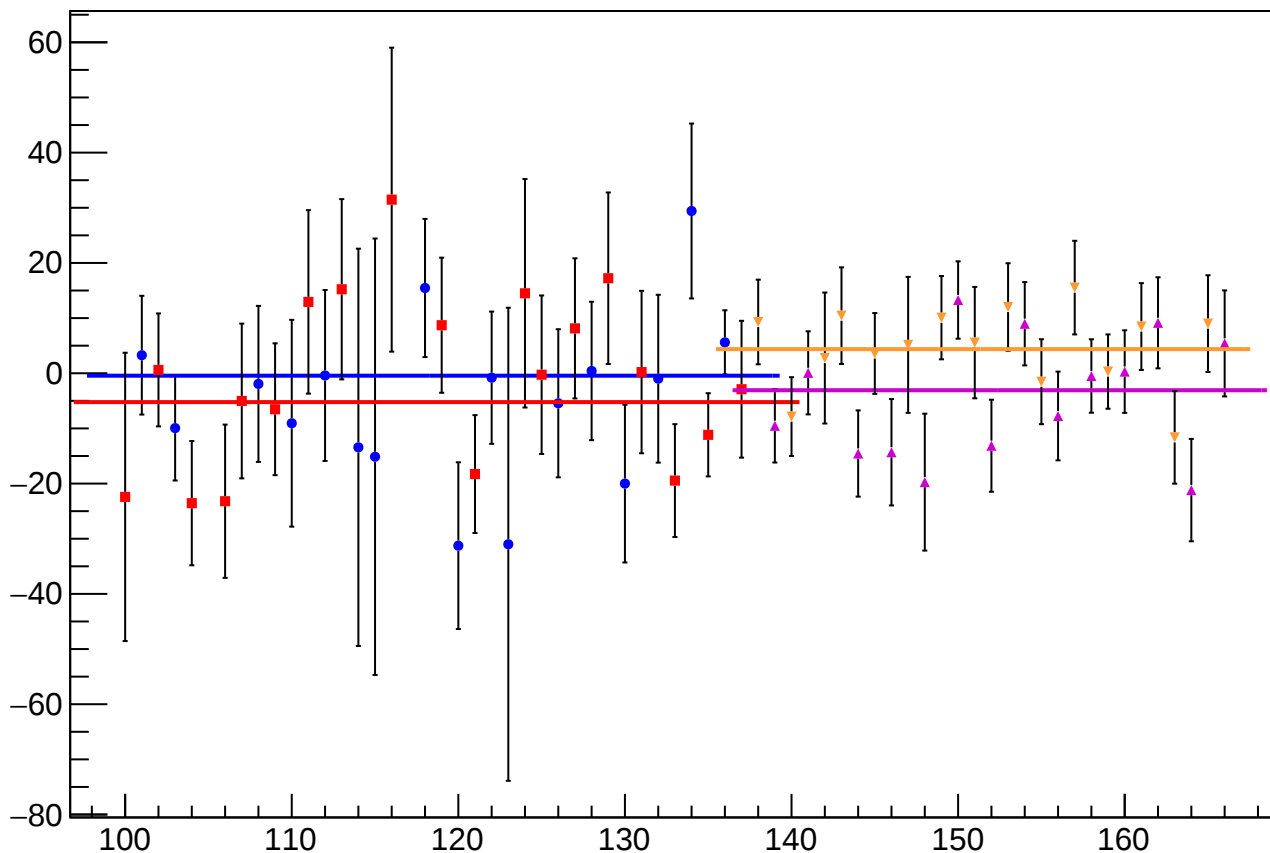
Right: 14490.533+/-2.821 χ^2/NDF : 1085397.6/35

In: 10537.850+/-1.832 χ^2/NDF : 1870813.2/30

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

All: 10553.772+/-1.288 χ^2/NDF : 4055532.8/66

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: -3.075 ± 2.137 χ^2/NDF : 23.3/13

Left: 0.669 ± 1.507 χ^2/NDF : 41.7/28

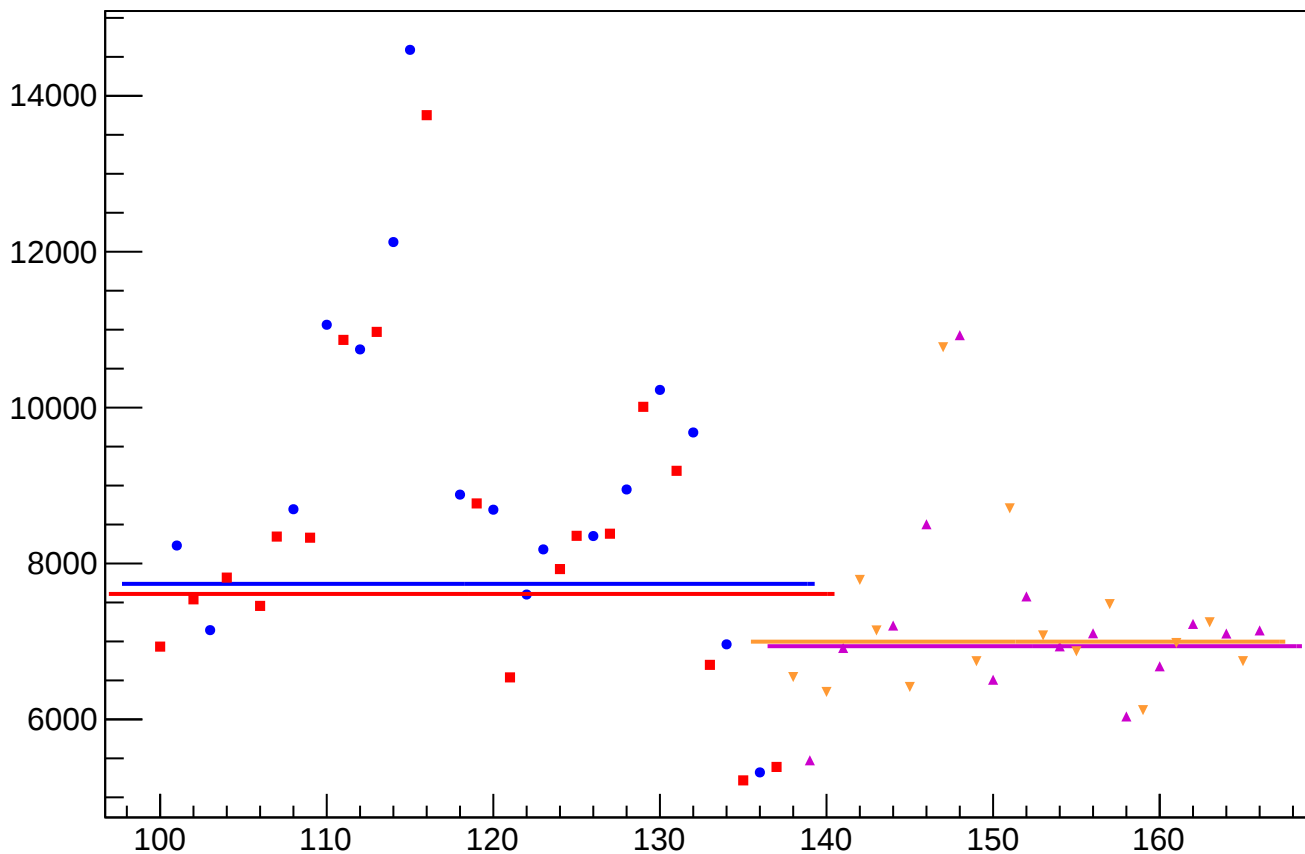
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -2.216 ± 1.754 χ^2/NDF : 38.4/30

Out: 1.071 ± 1.722 χ^2/NDF : 38.6/33

All: -0.542 ± 1.229 χ^2/NDF : 78.8/64

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.886 ± 2.172 χ^2/NDF : 740836.7/16

Left Out: 6997.408 ± 1.503 χ^2/NDF : 337460.9/14

Right Out: 7609.531 ± 2.076 χ^2/NDF : 679180.7/18

Left In: 6939.015 ± 1.511 χ^2/NDF : 421320.3/13

Left: 6968.369 ± 1.066 χ^2/NDF : 759531.9/28

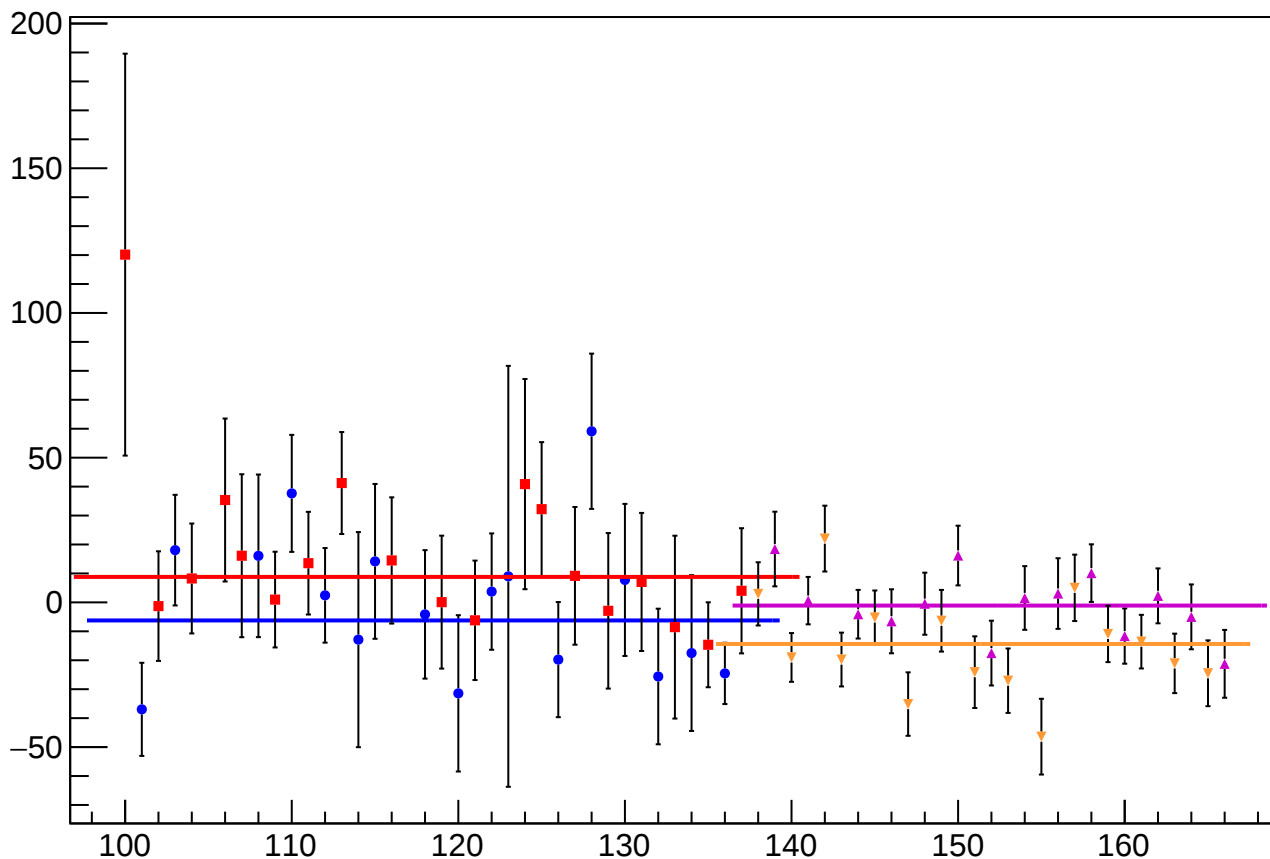
Right: 7671.298 ± 1.501 χ^2/NDF : 1421871.4/35

In: 7199.968 ± 1.240 χ^2/NDF : 1253568.7/30

Out: 7207.912 ± 1.217 χ^2/NDF : 1073687.4/33

All: 7204.014 ± 0.869 χ^2/NDF : 2327277.0/64

diff_bpm4eX_mean vs Slug, Sign Corrected



Left: -7.888 $\pm$ 1.926 χ^2/NDF : 56.0/28

Right: 1.306 $\pm$ 3.541 χ^2/NDF : 40.9/35

In: -2.295 $\pm$ 2.415 χ^2/NDF : 37.5/30

Out: -9.158 $\pm$ 2.371 χ^2/NDF : 60.4/33

All: -5.789 $\pm$ 1.692 χ^2/NDF : 102.1/64

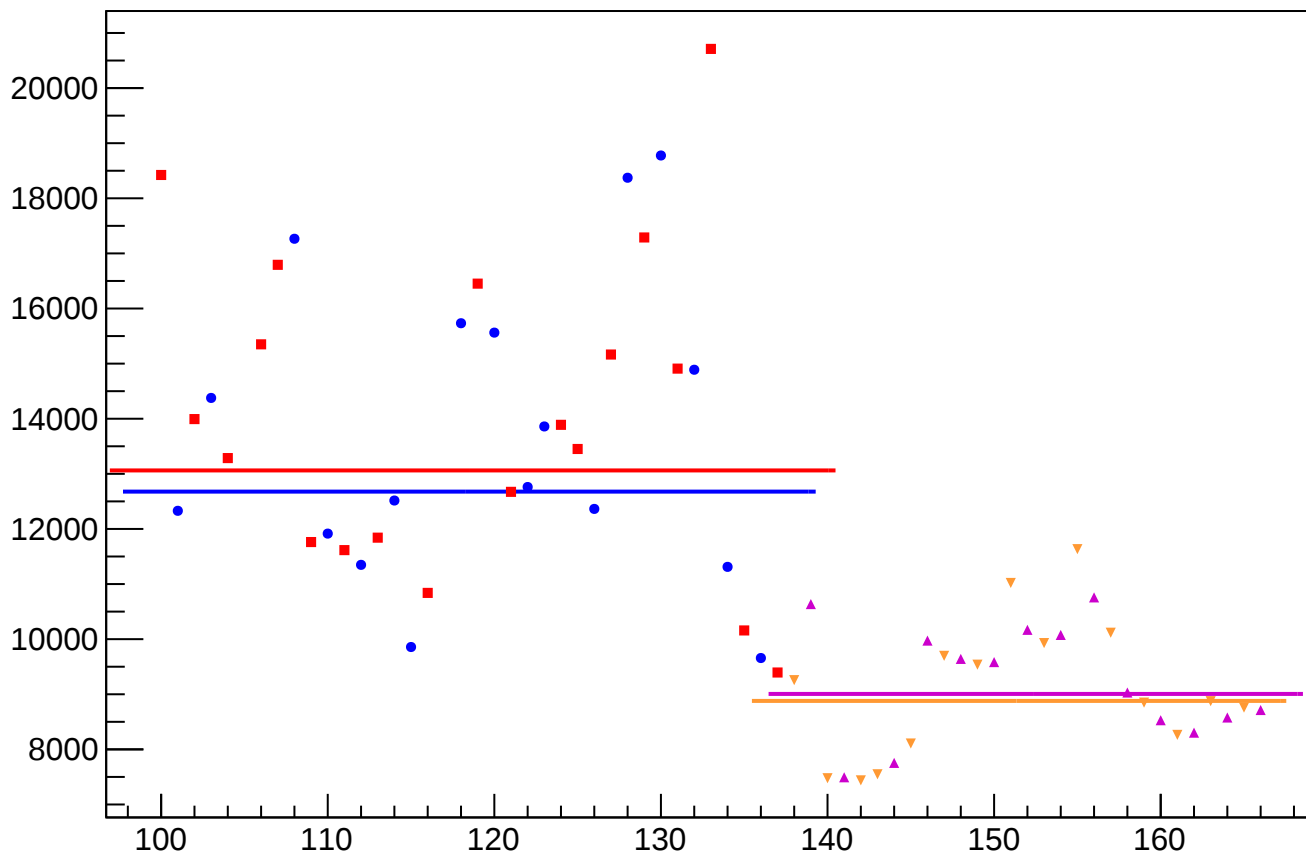
Right In: -6.244 $\pm$ 5.017 χ^2/NDF : 23.2/16

Left Out: -14.372 $\pm$ 2.694 χ^2/NDF : 30.6/14

Right Out: 8.802 $\pm$ 4.999 χ^2/NDF : 13.1/18

Left In: -1.104 $\pm$ 2.755 χ^2/NDF : 13.5/13

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: 9006.247 $\pm$ 1.948 χ^2/NDF : 274970.3/13

Left: 8941.366 $\pm$ 1.362 χ^2/NDF : 639138.2/28

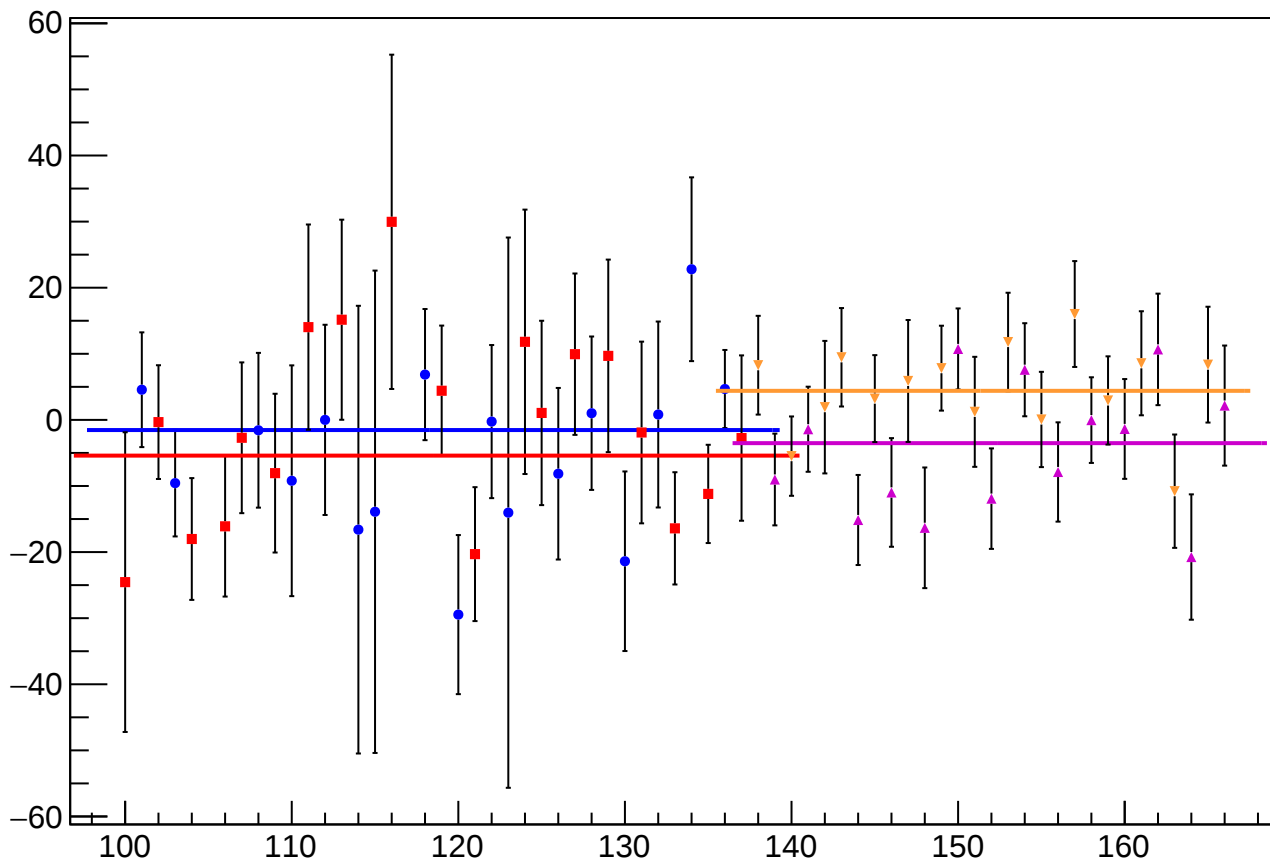
Right: 12870.370 $\pm$ 2.504 χ^2/NDF : 1056923.6/35

In: 9856.895 $\pm$ 1.708 χ^2/NDF : 1651277.2/30

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

All: 9838.309 $\pm$ 1.196 χ^2/NDF : 3595829.8/64

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: -3.518 ± 1.985 χ^2/NDF : 22.8/13

Left: 0.527 ± 1.388 χ^2/NDF : 42.0/28

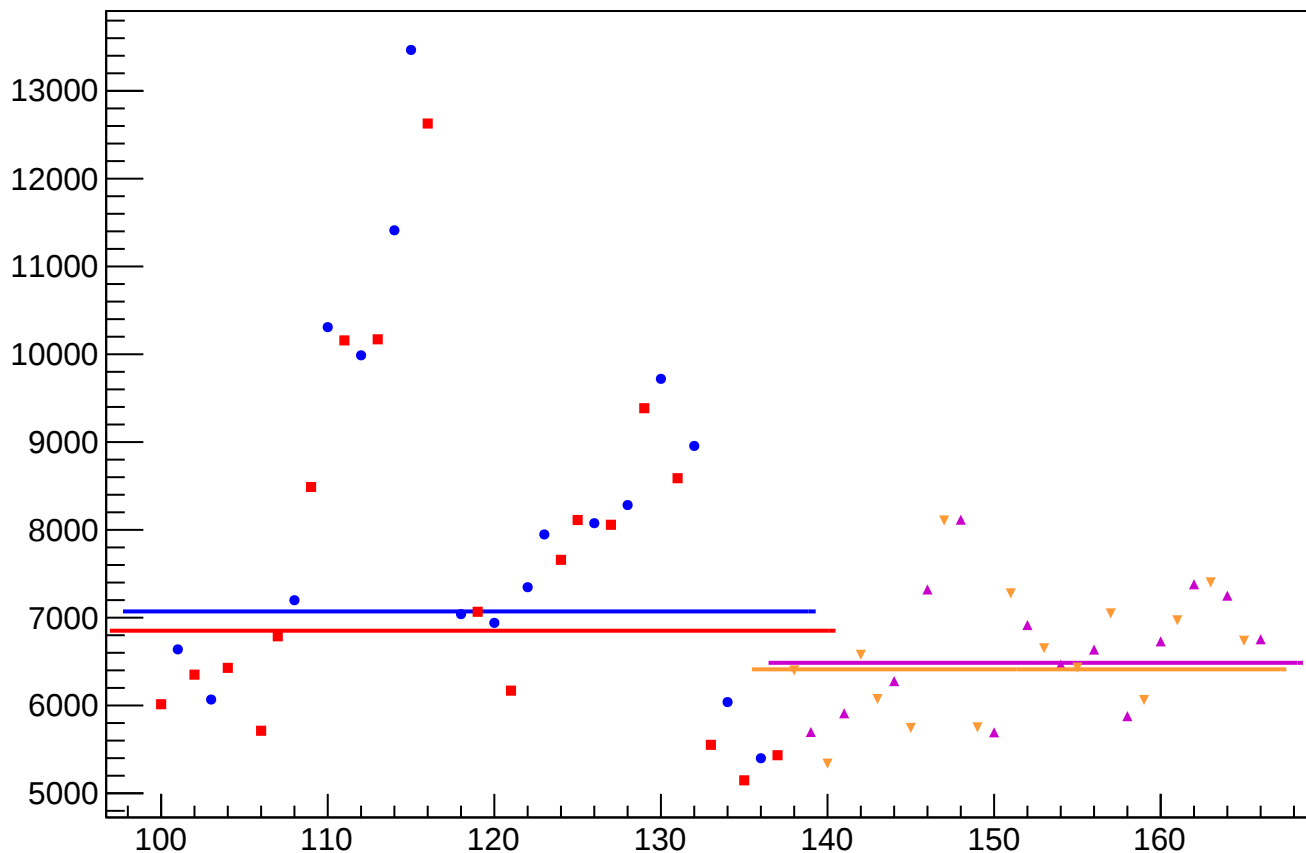
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -2.853 ± 1.618 χ^2/NDF : 38.0/30

Out: 0.955 ± 1.564 χ^2/NDF : 38.6/33

All: -0.885 ± 1.124 χ^2/NDF : 79.5/64

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7071.043+/-1.973 χ^2/NDF : 600748.1/16

Left Out: 6411.589+/-1.373 χ^2/NDF : 259411.1/14

Right Out: 6851.604+/-1.866 χ^2/NDF : 684398.7/18

Left In: 6485.931+/-1.404 χ^2/NDF : 225568.1/13

Left: 6447.935+/-0.982 χ^2/NDF : 486412.5/28

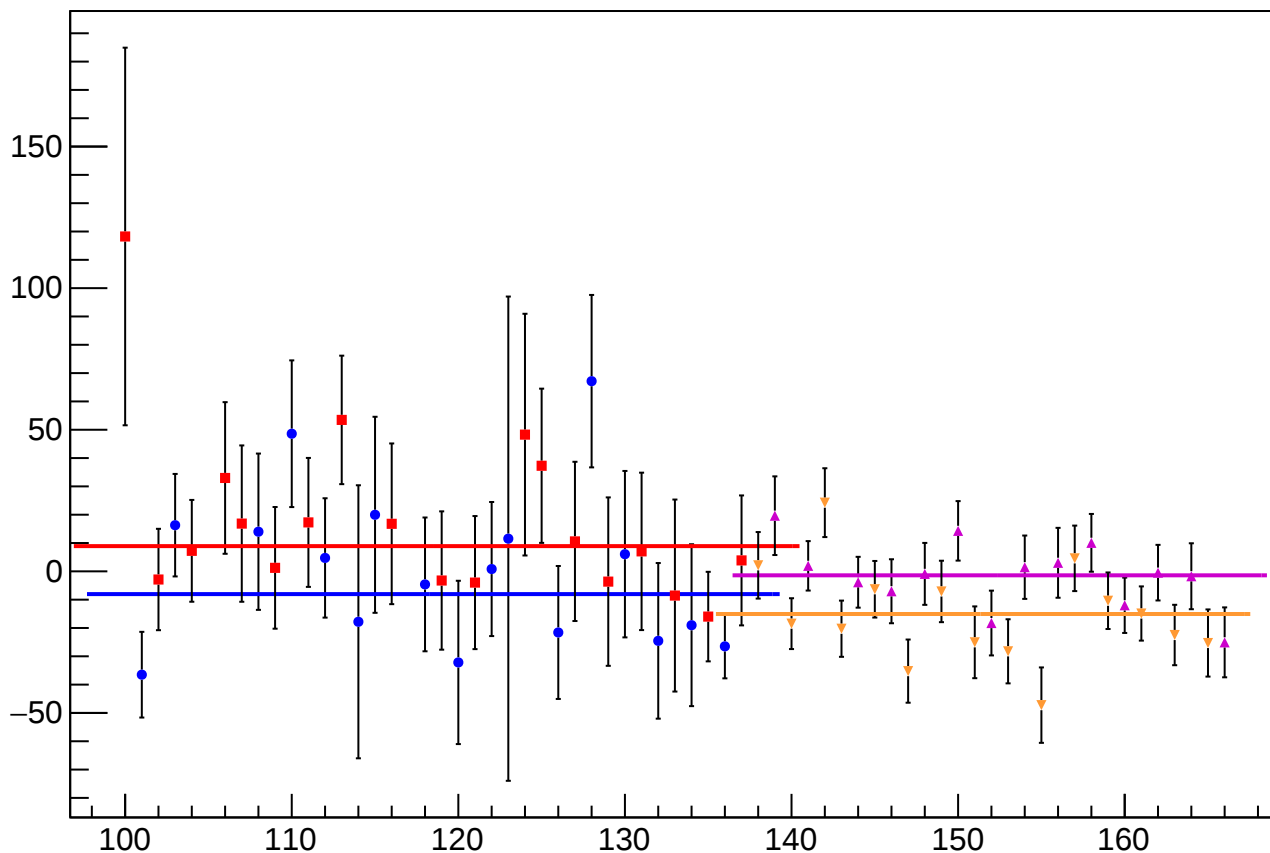
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

In: 6682.580+/-1.144 χ^2/NDF : 884700.1/30

Out: 6566.087+/-1.106 χ^2/NDF : 979871.3/33

All: 6622.374+/-0.795 χ^2/NDF : 1869931.8/64

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.036 ± 5.497 χ^2/NDF : 22.6/16

Left Out: -15.063 ± 2.805 χ^2/NDF : 29.8/14

Right Out: 8.907 ± 5.566 χ^2/NDF : 13.7/18

Left In: -1.405 ± 2.856 χ^2/NDF : 13.5/13

Left: -8.359 ± 2.001 χ^2/NDF : 54.9/28

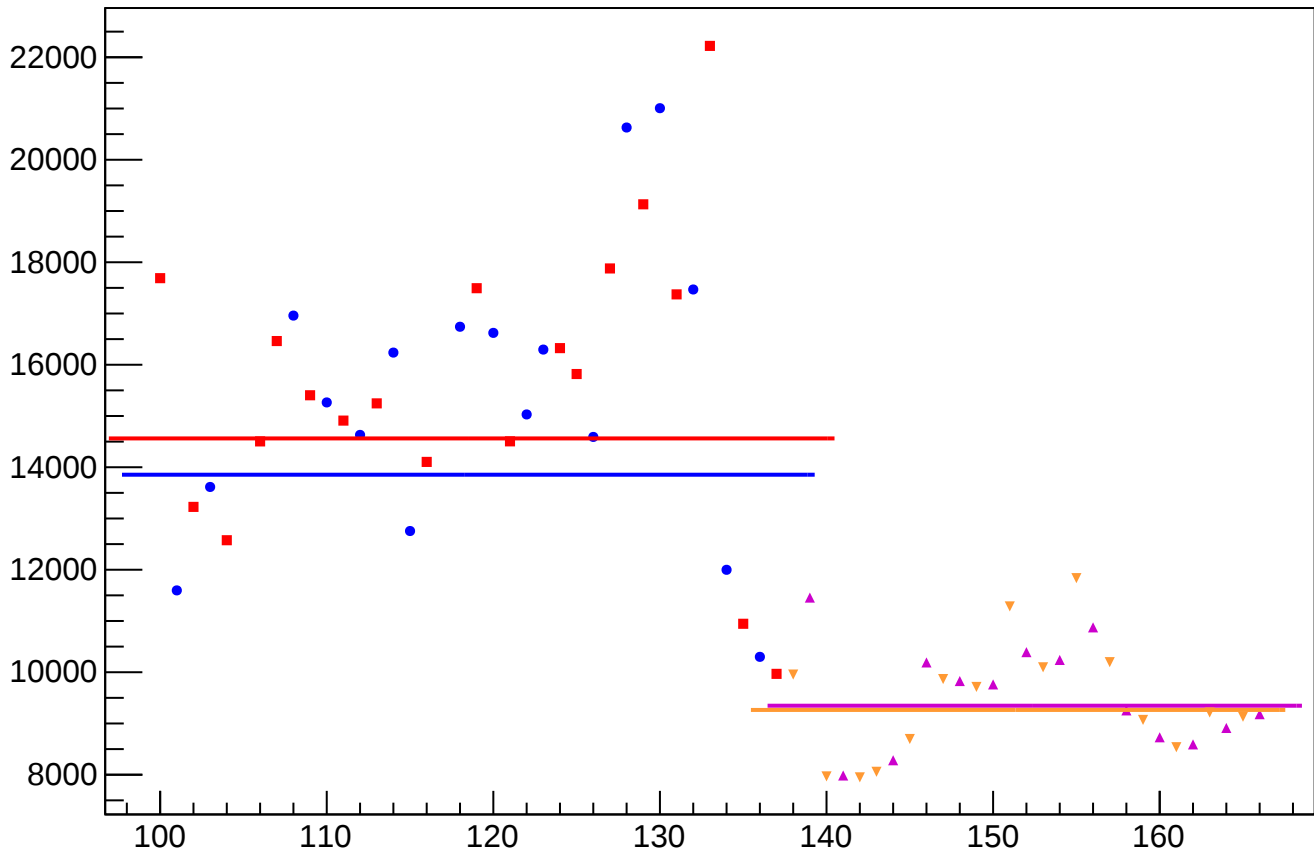
Right: 0.330 ± 3.911 χ^2/NDF : 41.0/35

In: -2.814 ± 2.535 χ^2/NDF : 37.2/30

Out: -10.210 ± 2.505 χ^2/NDF : 58.2/33

All: -6.556 ± 1.782 χ^2/NDF : 99.8/64

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: 9346.668+/-2.020 χ^2/NDF : 224338.6/13

Left: 9304.624+/-1.415 χ^2/NDF : 504400.8/28

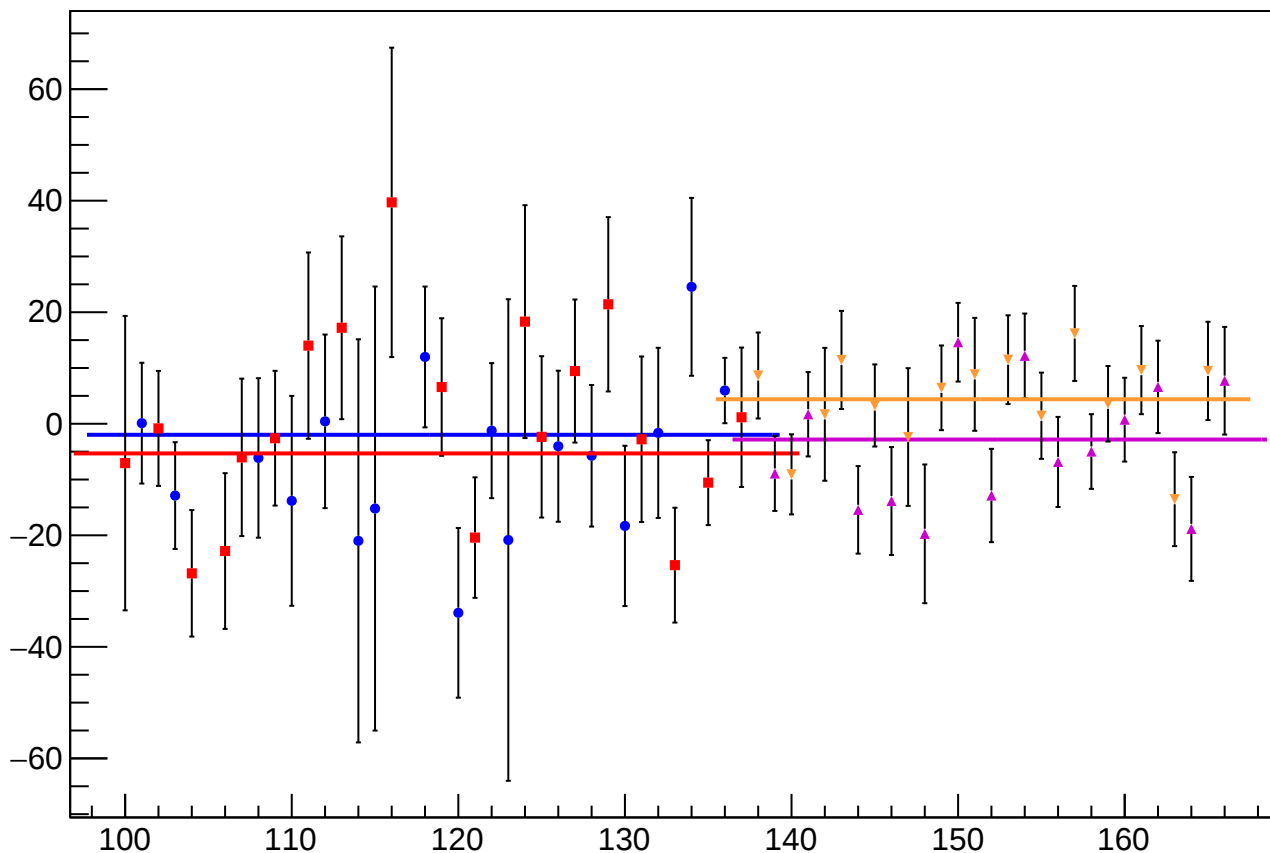
Right: 14203.845+/-2.766 χ^2/NDF : 1091628.8/35

In: 10304.800+/-1.792 χ^2/NDF : 1884087.7/30

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

All: 10320.999+/-1.260 χ^2/NDF : 4082928.6/66

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.978 ± 3.094 χ^2/NDF : 14.0/16

Left Out: 4.396 ± 2.135 χ^2/NDF : 13.3/14

Right Out: -5.318 ± 2.959 χ^2/NDF : 24.3/18

Left In: -2.828 ± 2.147 χ^2/NDF : 24.4/13

Left: 0.804 ± 1.514 χ^2/NDF : 43.4/28

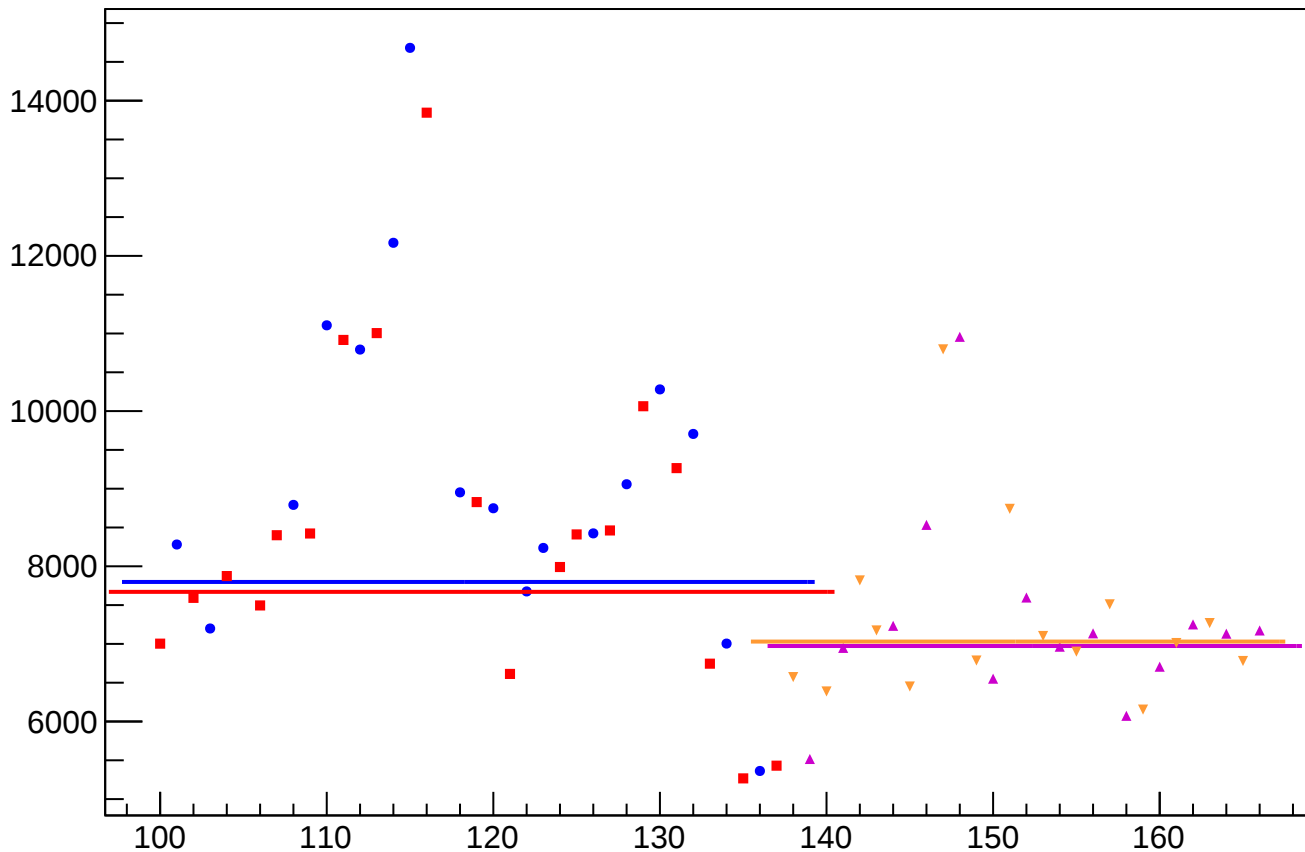
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -2.552 ± 1.764 χ^2/NDF : 38.5/30

Out: 1.070 ± 1.731 χ^2/NDF : 44.7/33

All: -0.707 ± 1.236 χ^2/NDF : 85.3/64

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: 6972.756+/-1.518 χ^2/NDF : 415047.6/13

Left: 7001.542+/-1.070 χ^2/NDF : 749458.9/28

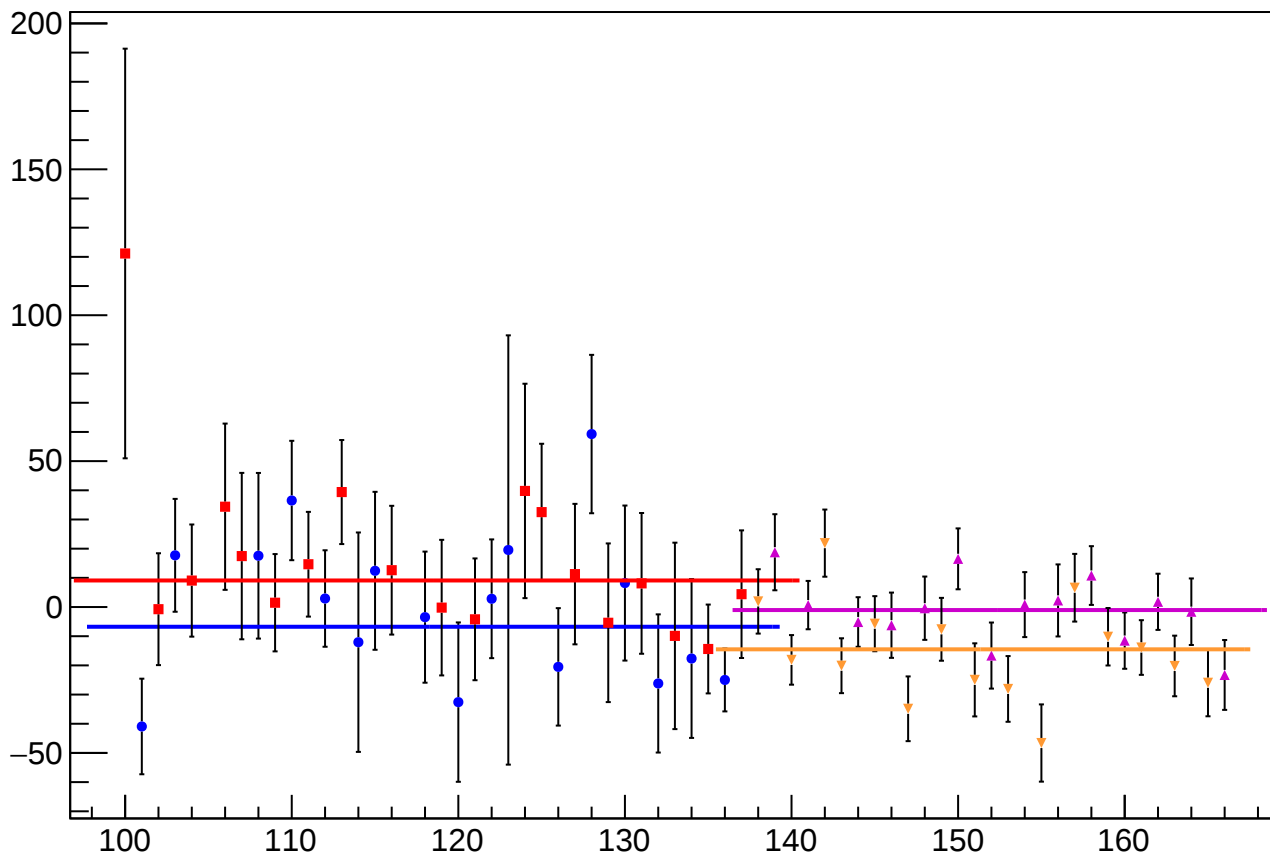
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7241.055+/-1.247 χ^2/NDF : 1247436.1/30

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

All: 7245.286+/-0.874 χ^2/NDF : 2315500.8/64

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.760 ± 5.085 $\chi^2/\text{NDF}: 23.7/16$

Left Out: -14.495 ± 2.723 $\chi^2/\text{NDF}: 30.2/14$

Right Out: 9.102 ± 5.070 $\chi^2/\text{NDF}: 12.2/18$

Left In: -1.036 ± 2.790 $\chi^2/\text{NDF}: 13.7/13$

Left: -7.928 ± 1.949 $\chi^2/\text{NDF}: 55.9/28$

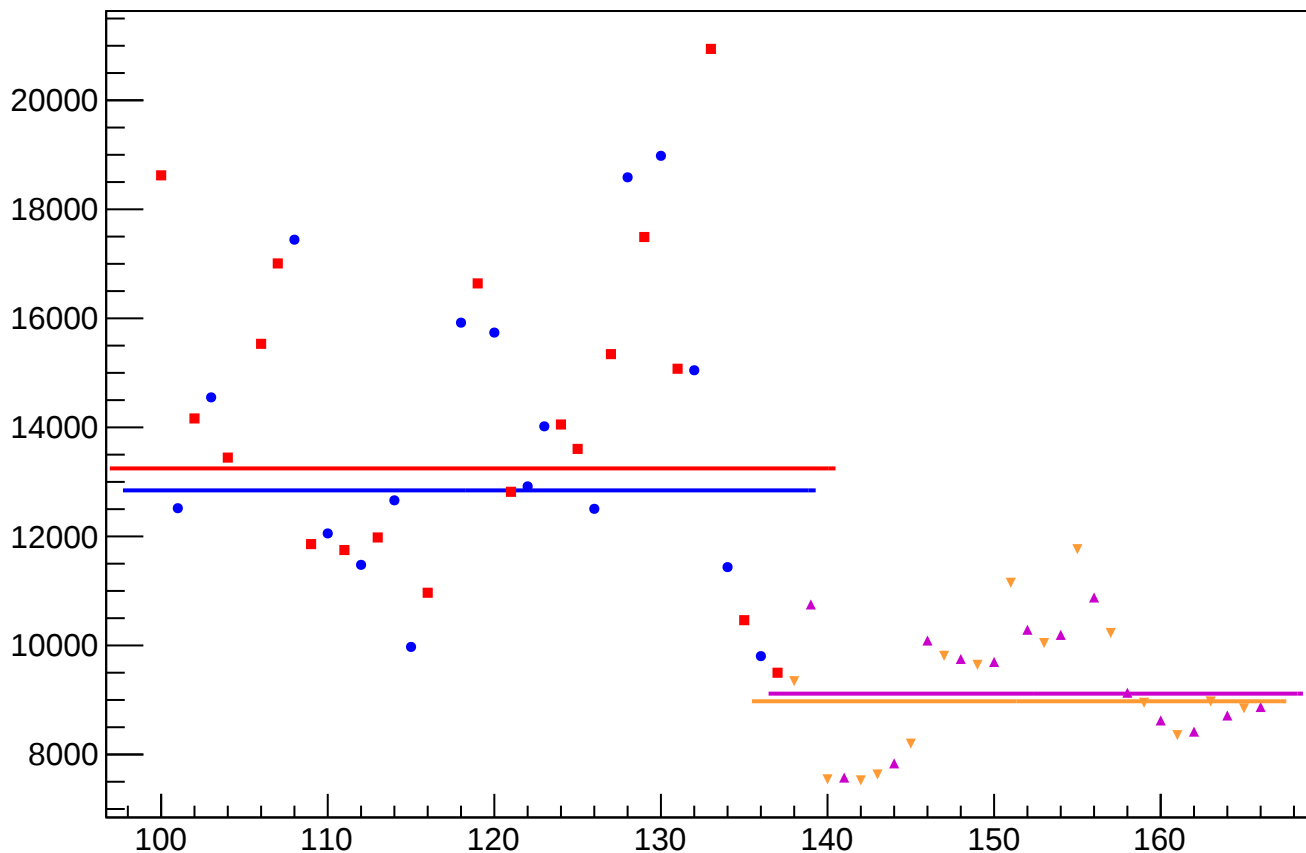
Right: 1.193 ± 3.590 $\chi^2/\text{NDF}: 40.8/35$

In: -2.360 ± 2.446 $\chi^2/\text{NDF}: 38.4/30$

Out: -9.213 ± 2.399 $\chi^2/\text{NDF}: 59.3/33$

All: -5.853 ± 1.713 $\chi^2/\text{NDF}: 101.7/64$

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: 9116.109 +/- 1.973 χ^2/NDF : 274206.0/13

Left: 9044.481 +/- 1.378 χ^2/NDF : 640367.1/28

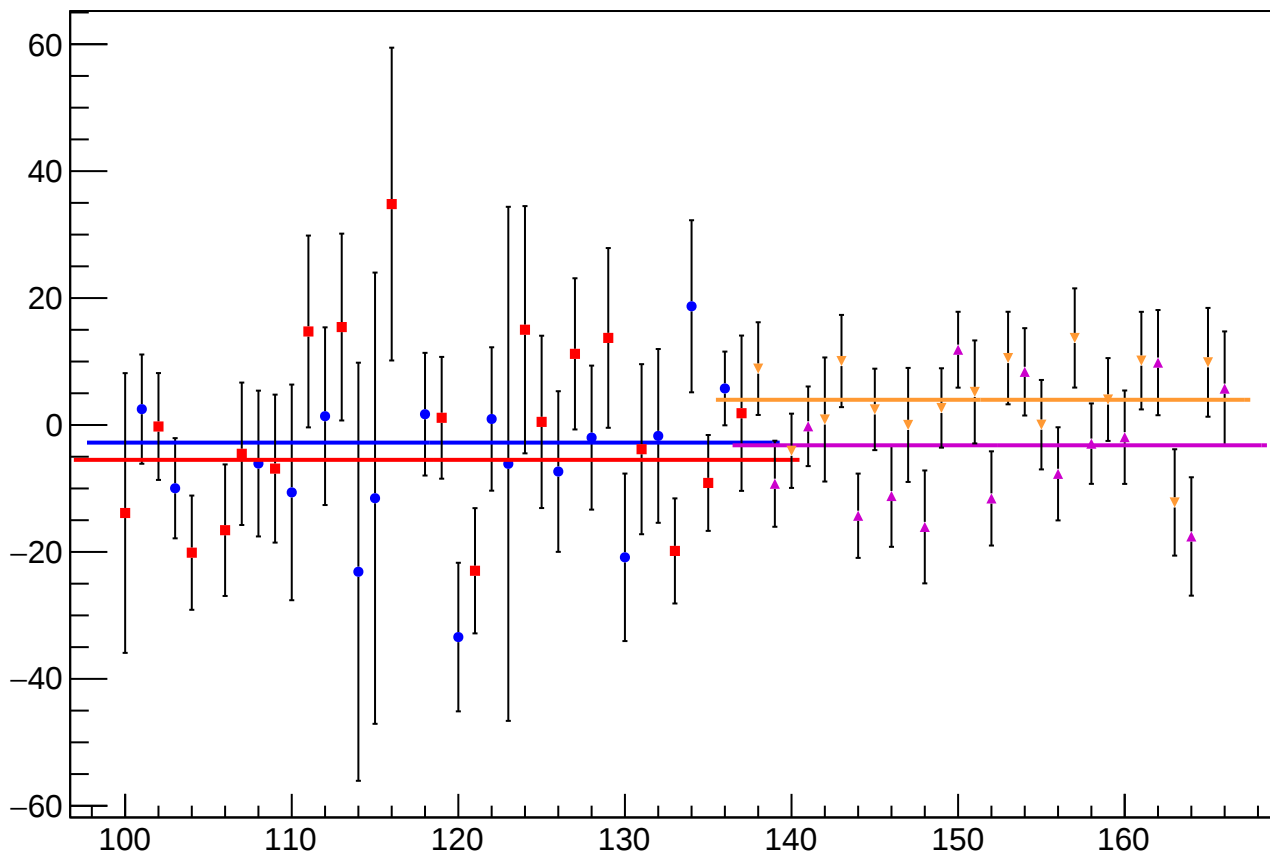
Right: 13046.351 +/- 2.539 χ^2/NDF : 1039049.9/35

In: 9978.717 +/- 1.729 χ^2/NDF : 1647927.1/30

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

All: 9955.089 +/- 1.211 χ^2/NDF : 3598735.8/64

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774 $\pm$ 2.732 χ^2/NDF : 15.9/16

Left Out: 3.973 $\pm$ 1.895 χ^2/NDF : 11.0/14

Right Out: -5.491 $\pm$ 2.587 χ^2/NDF : 23.2/18

Left In: -3.197 $\pm$ 1.940 χ^2/NDF : 23.6/13

Left: 0.472 $\pm$ 1.356 χ^2/NDF : 41.6/28

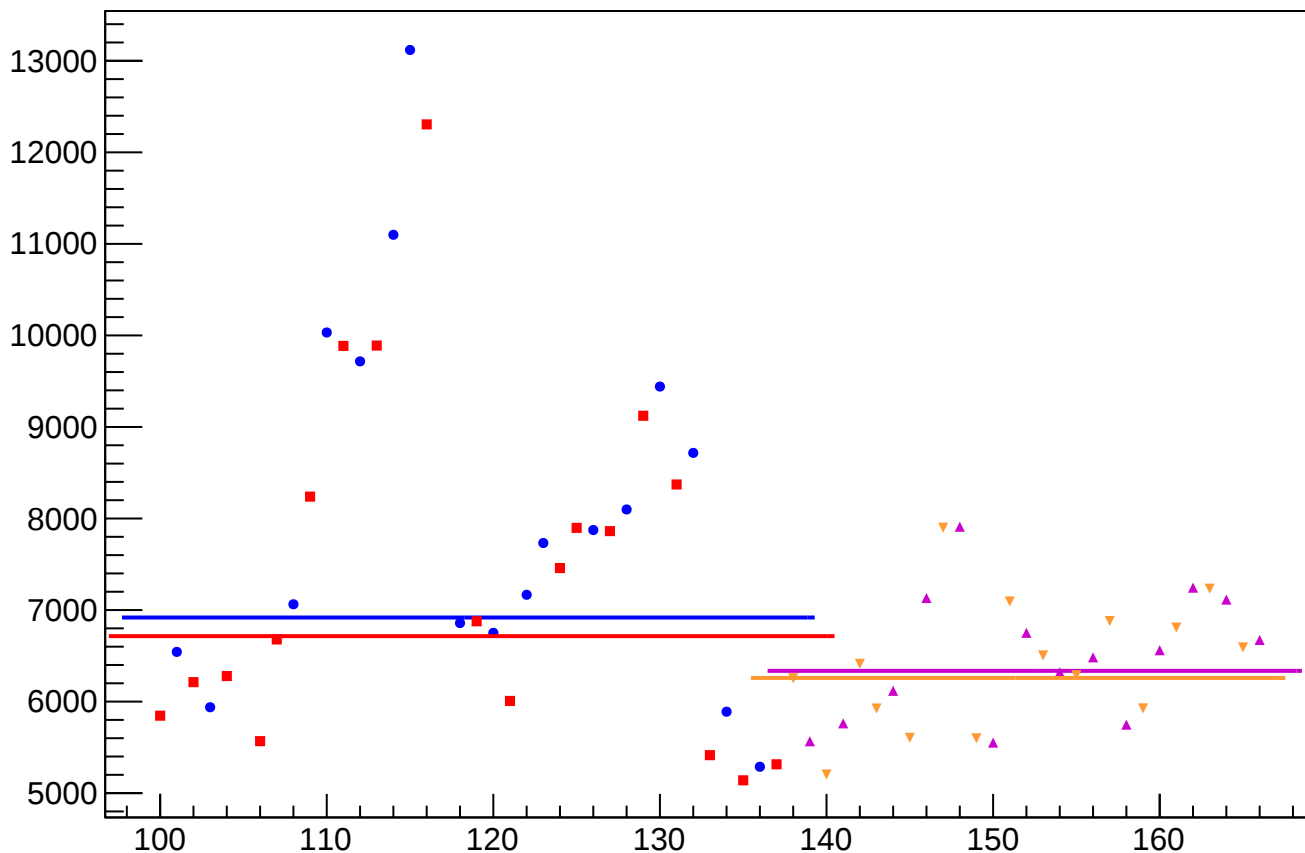
Right: -4.206 $\pm$ 1.879 χ^2/NDF : 39.6/35

In: -3.055 $\pm$ 1.582 χ^2/NDF : 39.5/30

Out: 0.668 $\pm$ 1.529 χ^2/NDF : 42.9/33

All: -1.130 $\pm$ 1.099 χ^2/NDF : 85.2/64

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6918.477 $\pm$ 1.932 χ^2/NDF : 587039.3/16

Left Out: 6258.416 $\pm$ 1.340 χ^2/NDF : 261151.7/14

Right Out: 6715.022 $\pm$ 1.830 χ^2/NDF : 656010.3/18

Left In: 6335.674 $\pm$ 1.372 χ^2/NDF : 228368.5/13

Left: 6296.140 $\pm$ 0.959 χ^2/NDF : 491142.8/28

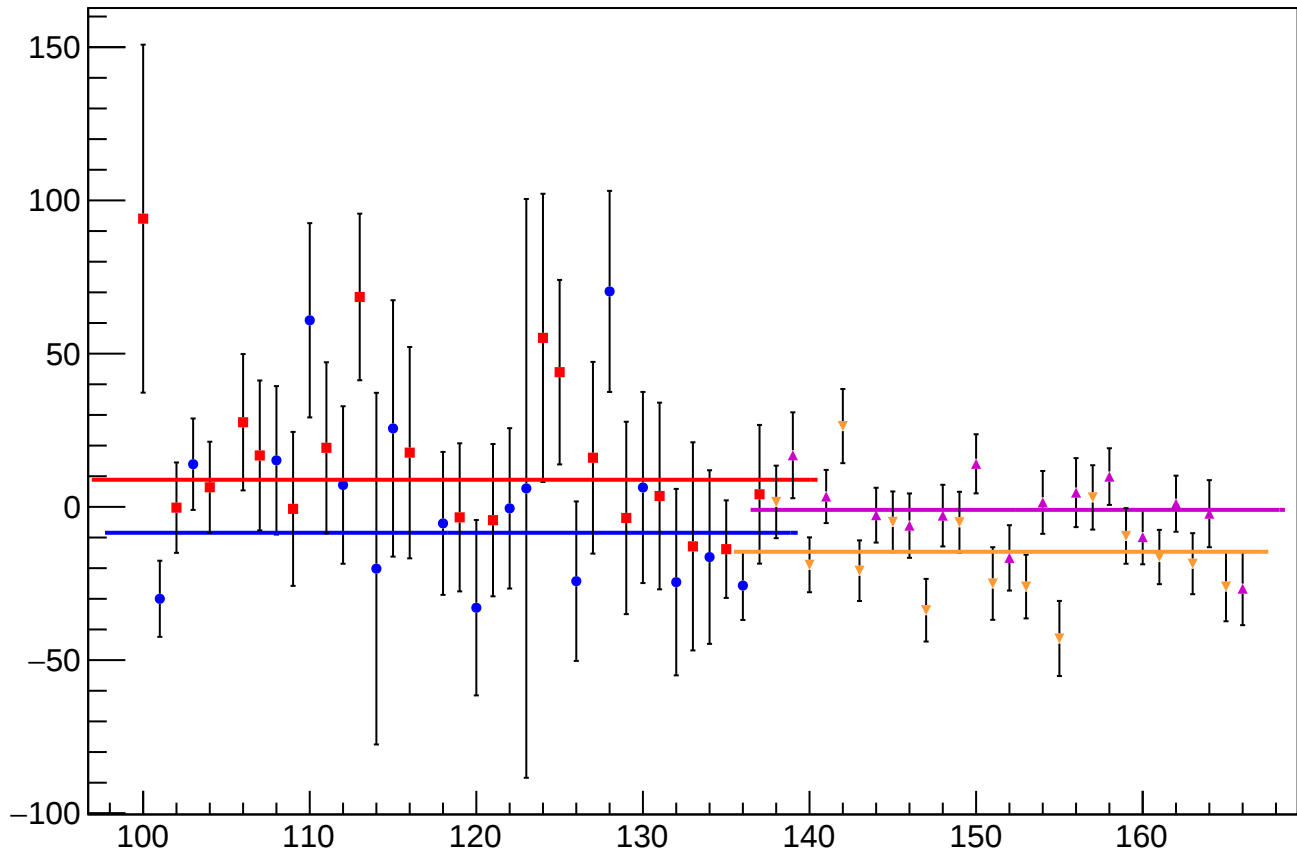
Right: 6811.237 $\pm$ 1.328 χ^2/NDF : 1248897.6/35

In: 6531.113 $\pm$ 1.119 χ^2/NDF : 875916.6/30

Out: 6417.871 $\pm$ 1.081 χ^2/NDF : 957695.0/33

All: 6472.570 $\pm$ 0.777 χ^2/NDF : 1838910.3/64

diff_bpm1X_mean vs Slug, Sign Corrected



Left: -7.878 $\pm$ 1.890 χ^2/NDF : 58.3/28

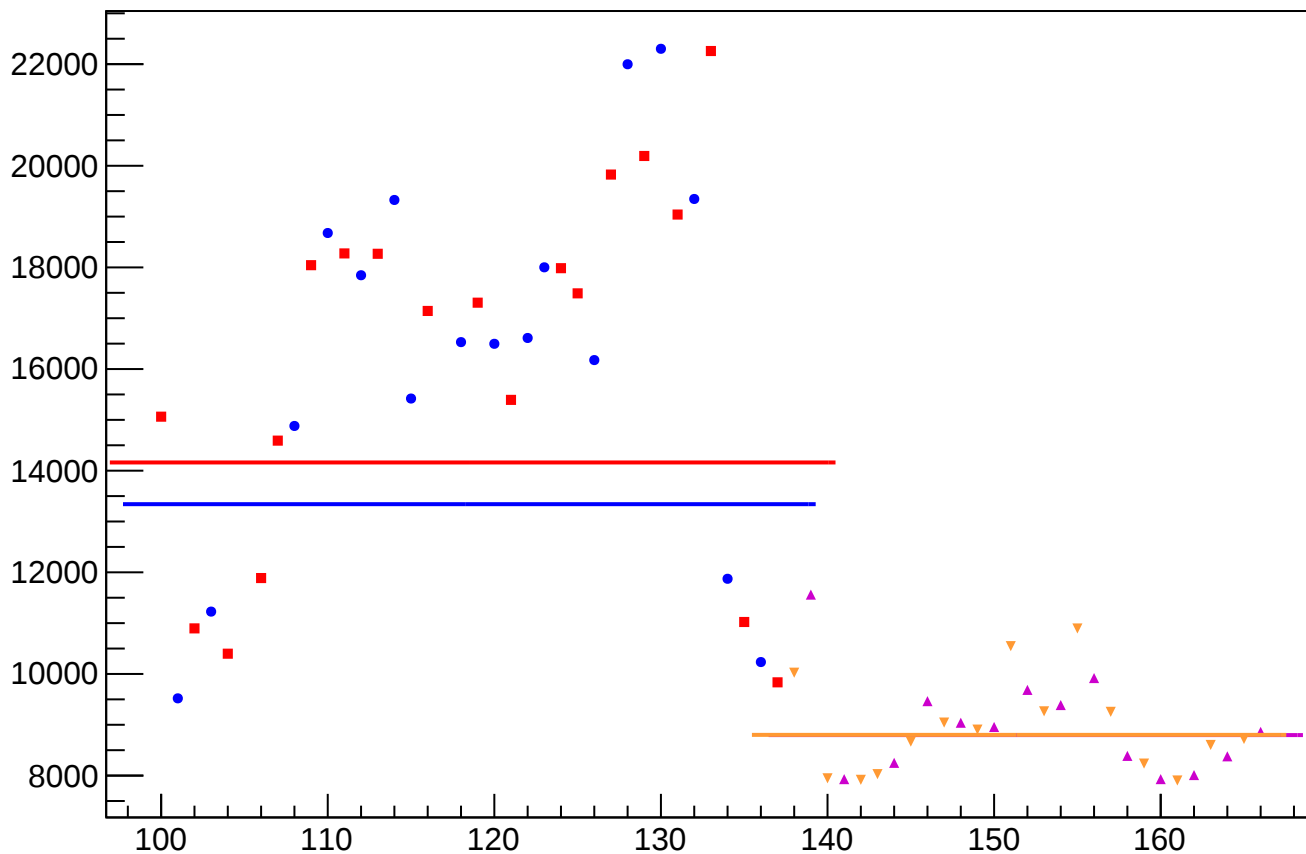
Right: 0.019 $\pm$ 3.854 χ^2/NDF : 41.3/35

In: -2.459 $\pm$ 2.405 χ^2/NDF : 37.7/30

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

All: -6.346 $\pm$ 1.697 χ^2/NDF : 102.9/64

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13340.948 $\pm$ 3.813 χ^2/NDF : 1044569.8/16

Left Out: 8801.290 $\pm$ 1.880 χ^2/NDF :202857.0/14

Right Out: 14161.826 $\pm$ 3.895 χ^2/NDF : 931787.3/18

Left In: 8797.085 $\pm$ 1.900 χ^2/NDF :196176.7/13

Left: 8799.209 $\pm$ 1.337 χ^2/NDF : 399036.2/28

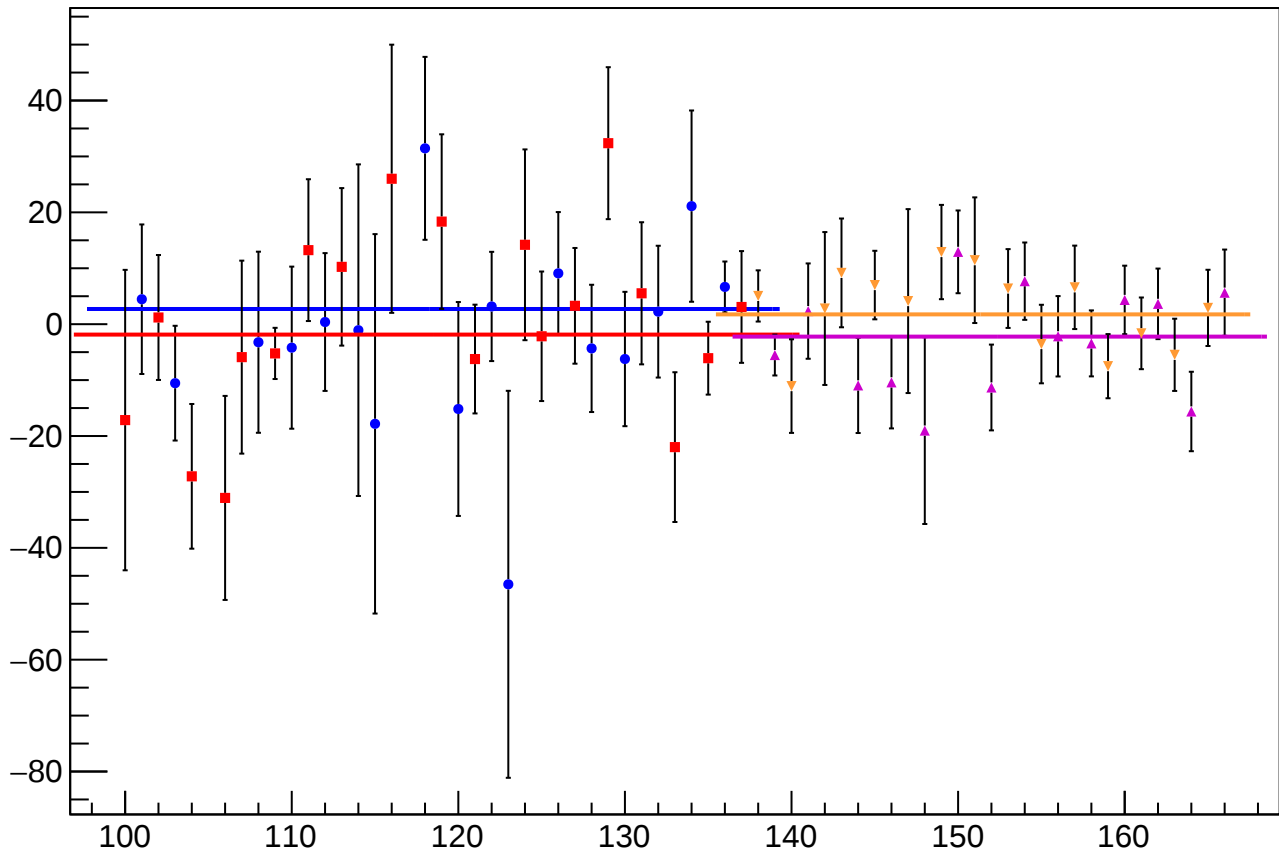
Right: 13742.695 $\pm$ 2.725 χ^2/NDF : 1999035.6/35

In: 9700.712 $\pm$ 1.701 χ^2/NDF :2378206.9/30

Out: 9814.591 $\pm$ 1.693 χ^2/NDF :2670695.9/33

All: 9757.890 $\pm$ 1.200 χ^2/NDF : 5051154.4/64

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 ± 2.752 χ^2/NDF : 11.6/16

Left Out: 1.754 ± 1.861 χ^2/NDF : 12.3/14

Right Out: -1.861 ± 2.439 χ^2/NDF : 23.5/18

Left In: -2.224 ± 1.786 χ^2/NDF : 18.4/13

Left: -0.316 ± 1.289 χ^2/NDF : 33.1/28

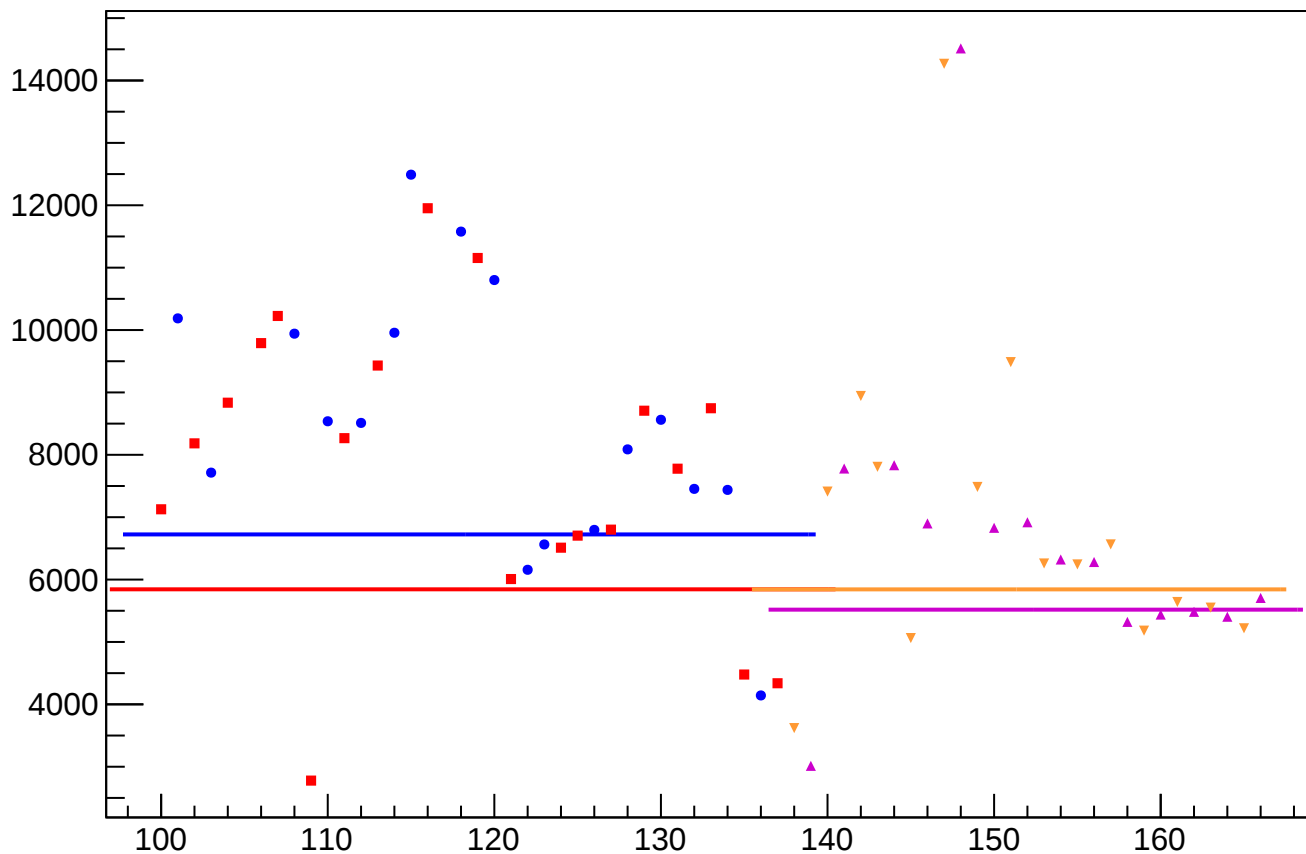
Right: 0.153 ± 1.825 χ^2/NDF : 36.7/35

In: -0.759 ± 1.498 χ^2/NDF : 32.4/30

Out: 0.424 ± 1.479 χ^2/NDF : 37.2/33

All: -0.160 ± 1.053 χ^2/NDF : 69.9/64

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: 5517.824+/-1.263 χ^2/NDF : 2046662.4/13

Left: 5673.720+/-0.911 χ^2/NDF : 3729303.9/28

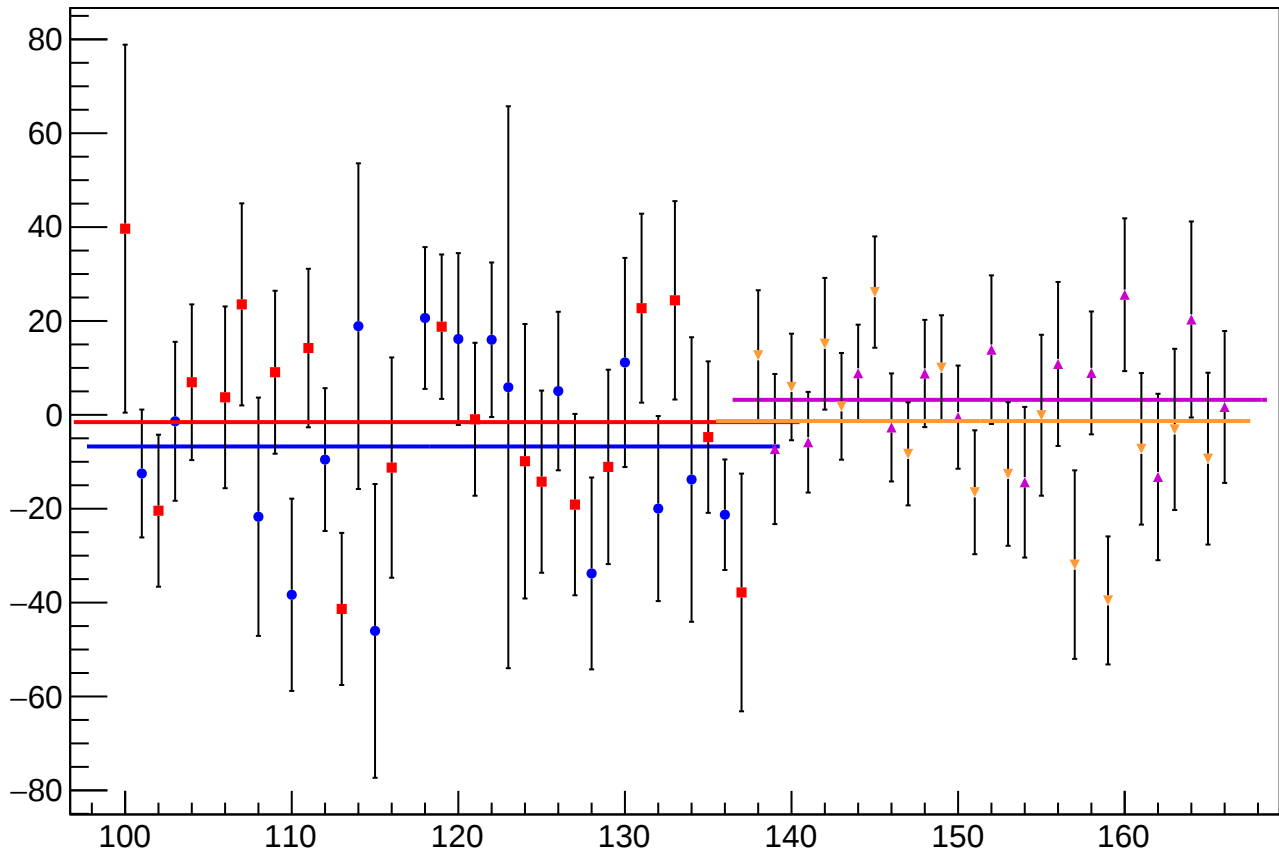
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5875.362+/-1.060 χ^2/NDF : 3708964.8/30

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

All: 5859.091+/-0.744 χ^2/NDF : 7637539.1/64

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: 3.200 ± 3.640 $\chi^2/\text{NDF}: 7.5/13$

Left: 0.867 ± 2.531 $\chi^2/\text{NDF}: 30.4/28$

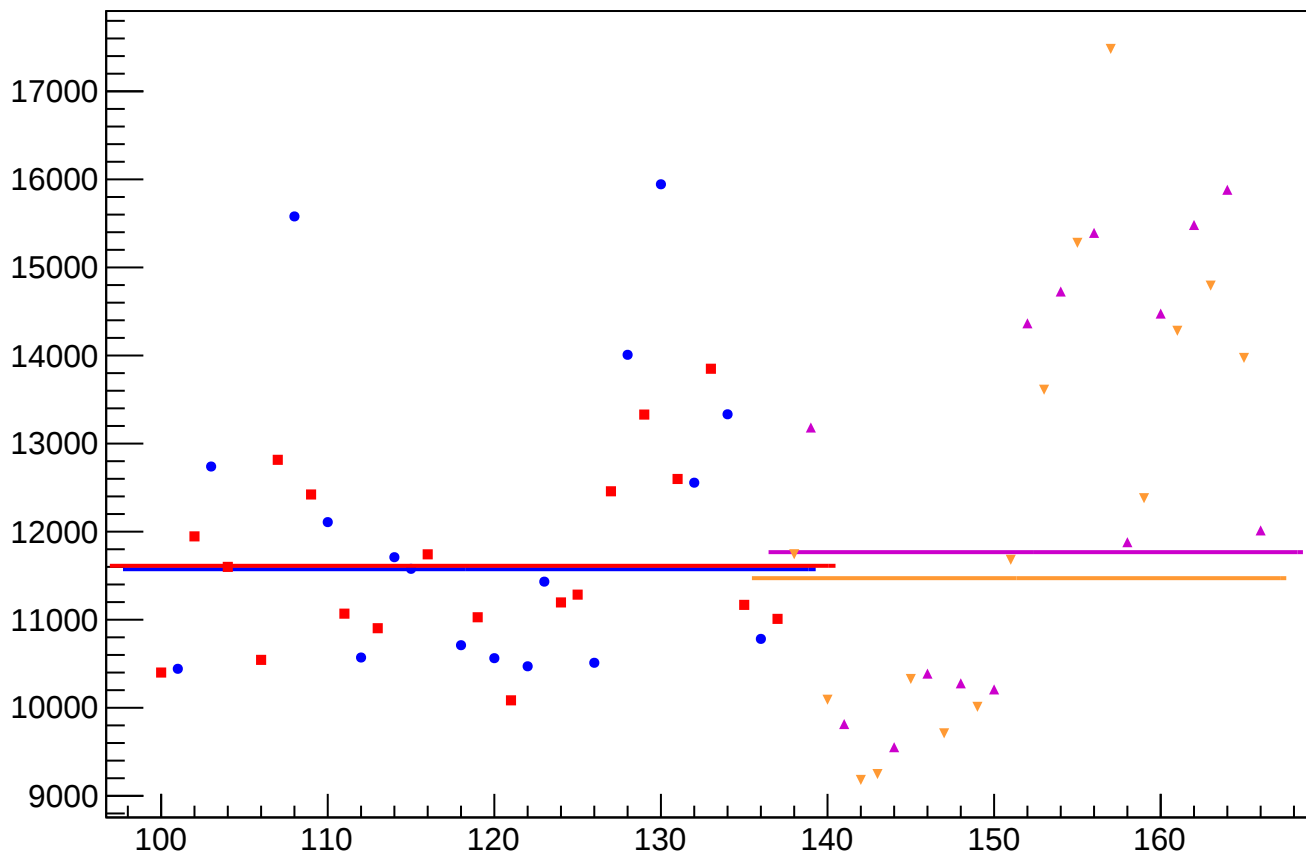
Right: -4.061 ± 3.140 $\chi^2/\text{NDF}: 37.5/35$

In: -0.716 ± 2.833 $\chi^2/\text{NDF}: 27.3/30$

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

All: -1.073 ± 1.970 $\chi^2/\text{NDF}: 69.4/64$

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: 11767.198+/-2.574 χ^2/NDF : 706002.7/13

Left: 11614.596+/-1.789 χ^2/NDF : 1476240.2/28

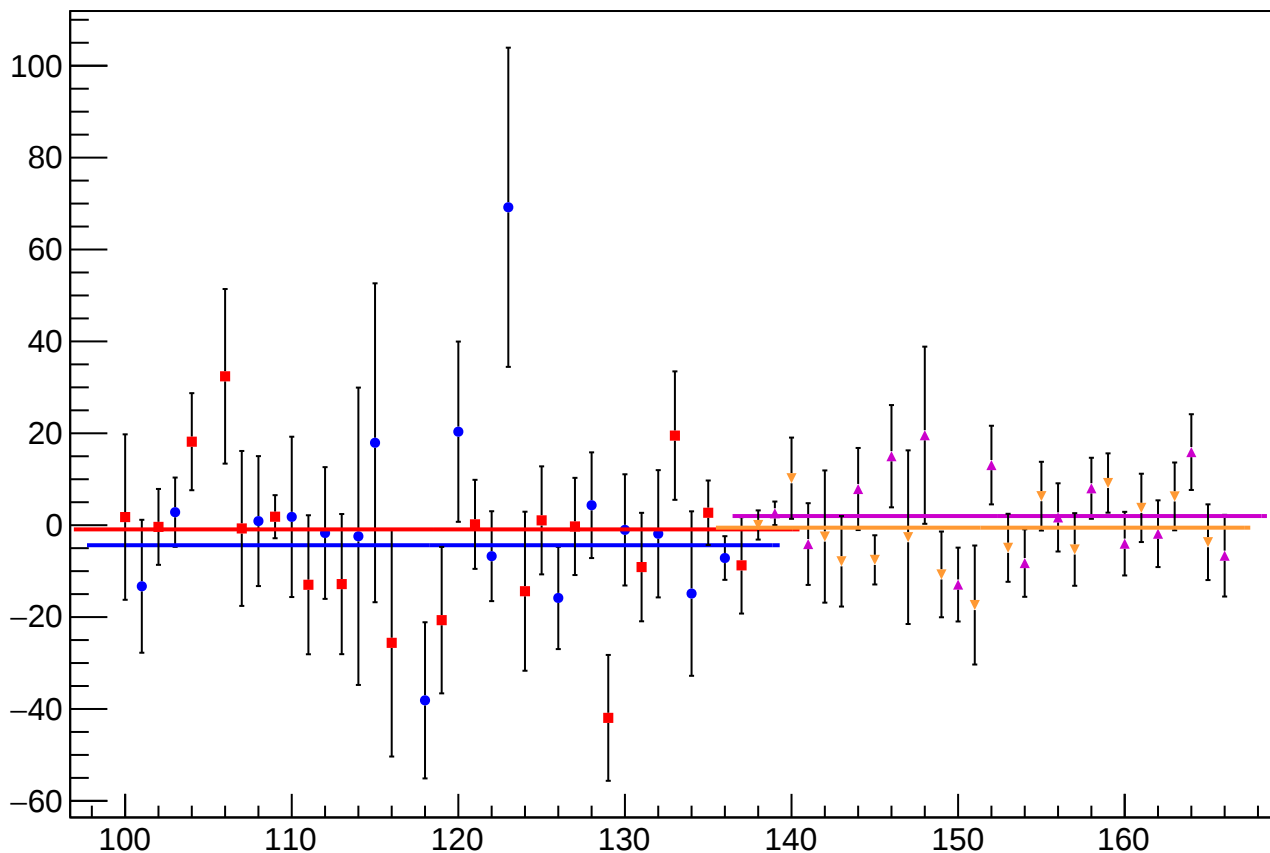
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11690.856+/-2.003 χ^2/NDF : 946970.0/30

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

All: 11606.277+/-1.393 χ^2/NDF : 1809413.9/6

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: 1.991 ± 1.705 χ^2/NDF : 15.9/13

Left: 0.792 ± 1.237 χ^2/NDF : 28.8/28

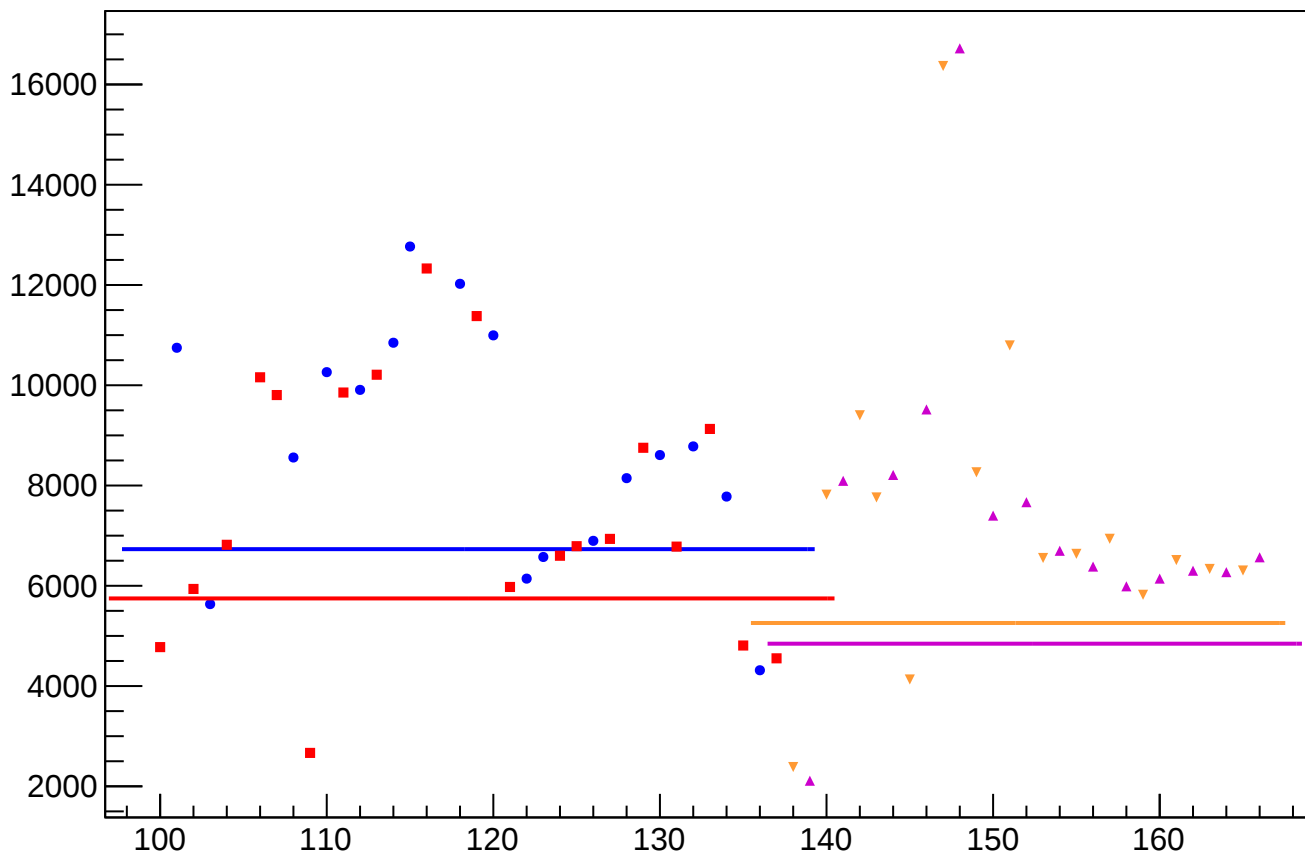
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: 0.251 ± 1.453 χ^2/NDF : 34.2/30

Out: -0.673 ± 1.444 χ^2/NDF : 35.4/33

All: -0.214 ± 1.024 χ^2/NDF : 69.8/64

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 $\pm$ 1.963 χ^2 /NDF: 1445240.4/16

Left Out: 5257.950 $\pm$ 1.271 χ^2 /NDF:3817832.6/14

Right Out: 5747.643 $\pm$ 1.716 χ^2 /NDF: 2162236.7/18

Left In: 4844.968 $\pm$ 1.206 χ^2 /NDF:4918029.6/13

Left: 5040.529 $\pm$ 0.875 χ^2 /NDF: 8791435.9/28

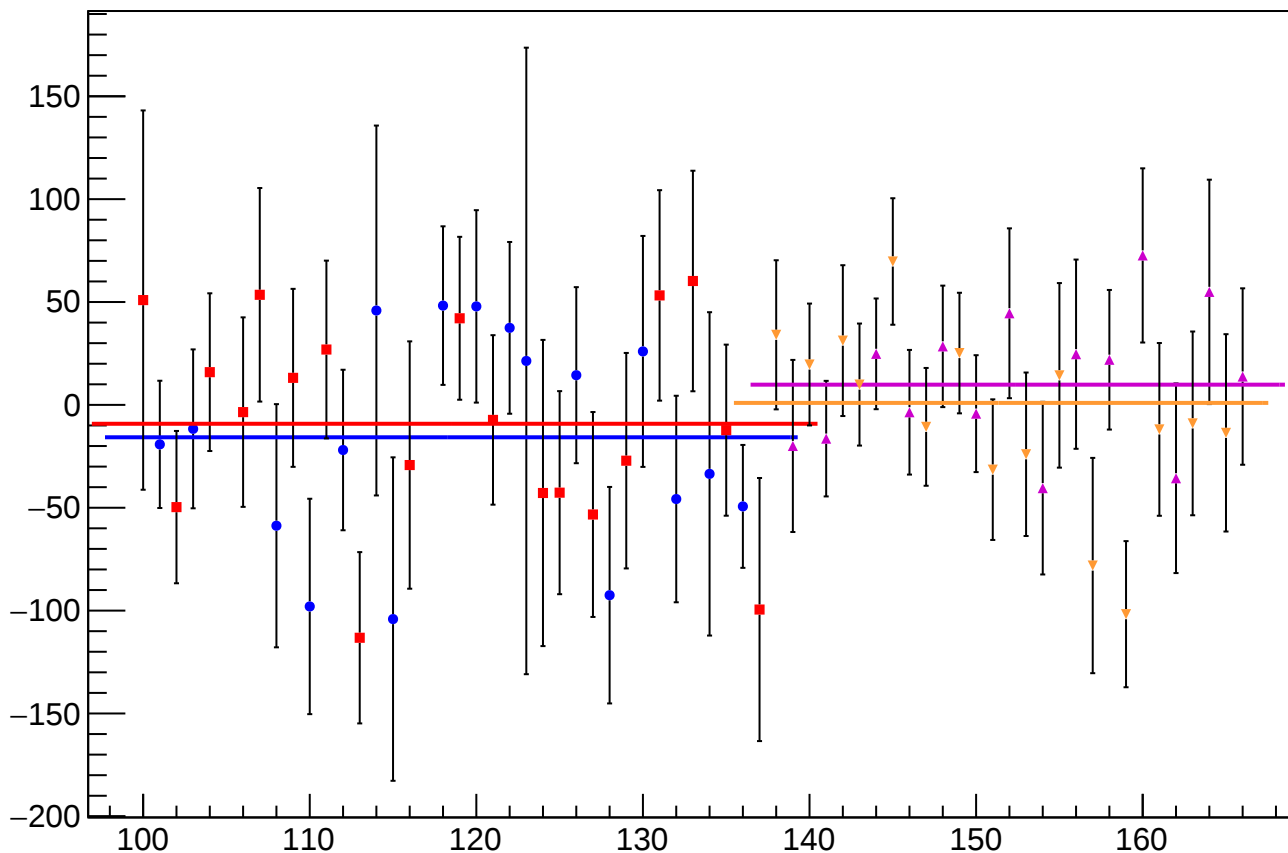
Right: 6173.310 $\pm$ 1.292 χ^2 /NDF: 3749669.1/35

In: 5361.350 $\pm$ 1.027 χ^2 /NDF:7033331.9/30

Out: 5431.510 $\pm$ 1.021 χ^2 /NDF:6032672.5/33

All: 5396.635 $\pm$ 0.724 χ^2 /NDF: 13068350.1/66

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: 9.825 ± 9.492 $\chi^2/\text{NDF}: 8.8/13$

Left: 5.246 ± 6.598 $\chi^2/\text{NDF}: 29.3/28$

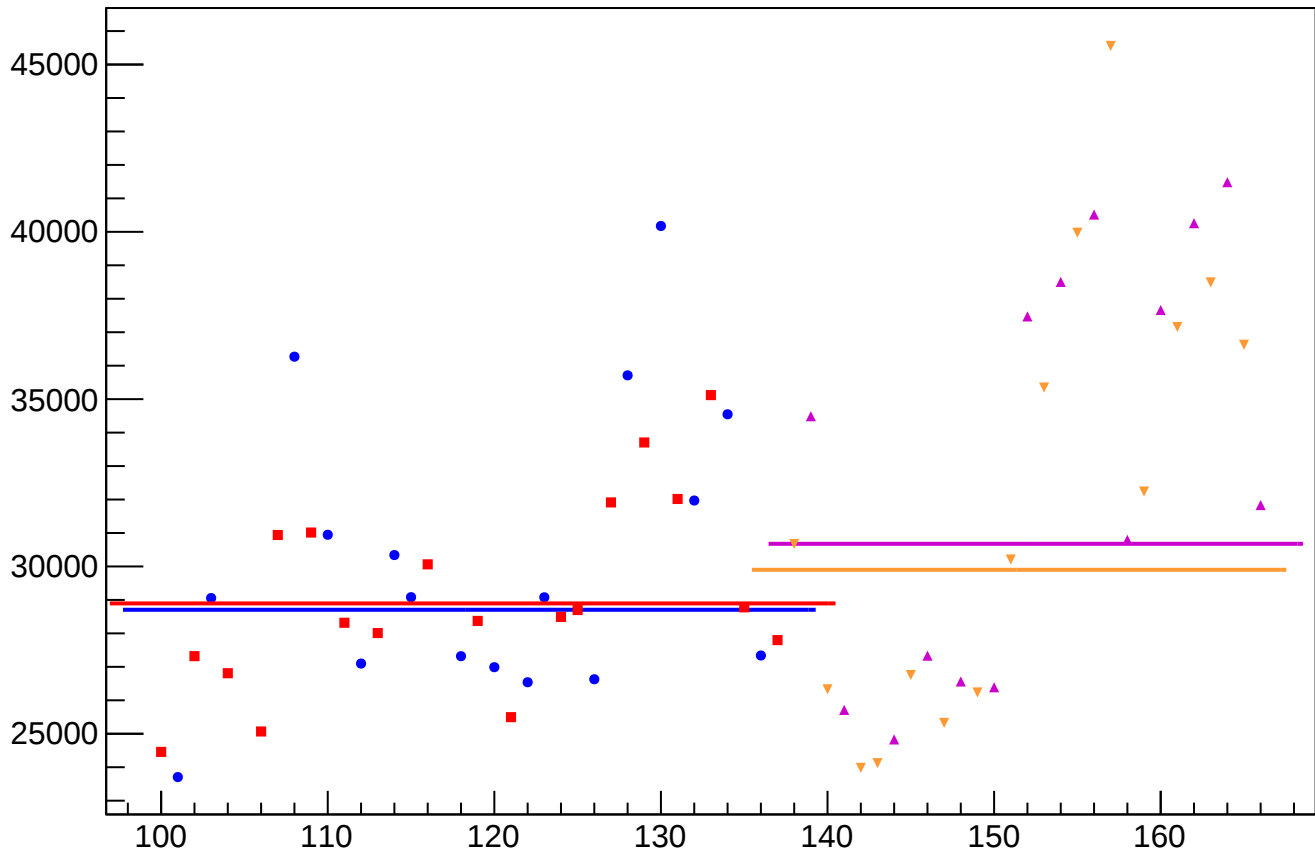
Right: -12.370 ± 7.810 $\chi^2/\text{NDF}: 35.4/35$

In: -0.857 ± 7.243 $\chi^2/\text{NDF}: 27.7/30$

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

All: -2.091 ± 5.040 $\chi^2/\text{NDF}: 67.7/64$

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: 30677.048+/-6.712 χ^2/NDF : 718436.4/13

Left: 30275.674+/-4.665 χ^2/NDF : 1486026.3/28

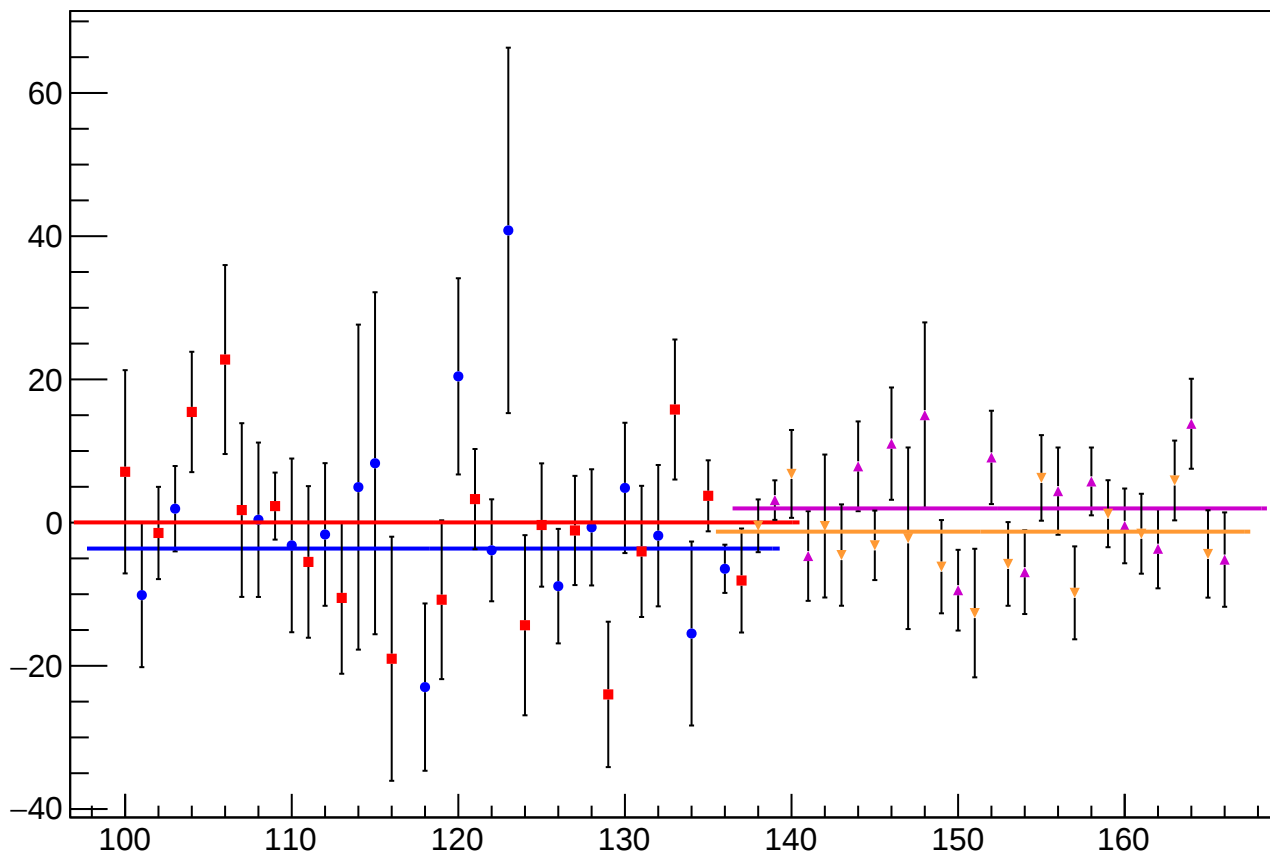
Right: 28803.288+/-5.522 χ^2/NDF : 362500.7/35

In: 29853.625+/-5.122 χ^2/NDF : 1005467.6/30

Out: 29483.064+/-4.962 χ^2/NDF : 881840.6/33

All: 29662.486+/-3.564 χ^2/NDF : 1890008.4/66

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.625 ± 2.006 χ^2/NDF : 13.7/16

Left Out: -1.262 ± 1.520 χ^2/NDF : 10.4/14

Right Out: 0.027 ± 1.890 χ^2/NDF : 22.1/18

Left In: 1.981 ± 1.447 χ^2/NDF : 18.9/13

Left: 0.439 ± 1.048 χ^2/NDF : 31.7/28

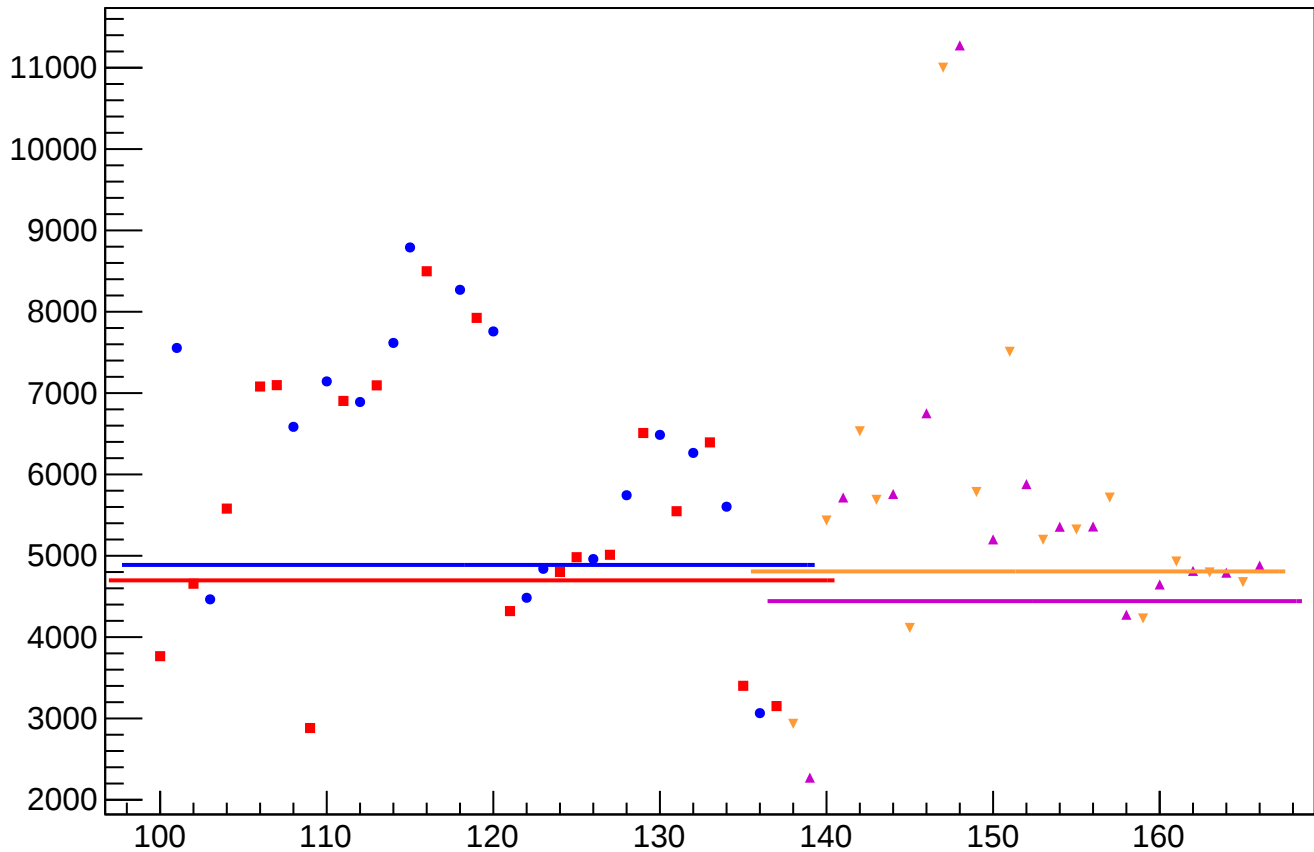
Right: -1.690 ± 1.376 χ^2/NDF : 37.6/35

In: 0.063 ± 1.173 χ^2/NDF : 37.8/30

Out: -0.756 ± 1.184 χ^2/NDF : 32.8/33

All: -0.343 ± 0.834 χ^2/NDF : 70.8/64

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.515 ± 1.418 $\chi^2/\text{NDF}: 1409296.8/16$

Left Out: 4807.517 ± 1.075 $\chi^2/\text{NDF}: 1467668.5/14$

Right Out: 4697.726 ± 1.336 $\chi^2/\text{NDF}: 1313121.0/18$

Left In: 4442.535 ± 1.023 $\chi^2/\text{NDF}: 2393548.3/13$

Left: 4616.011 ± 0.741 $\chi^2/\text{NDF}: 3921722.6/28$

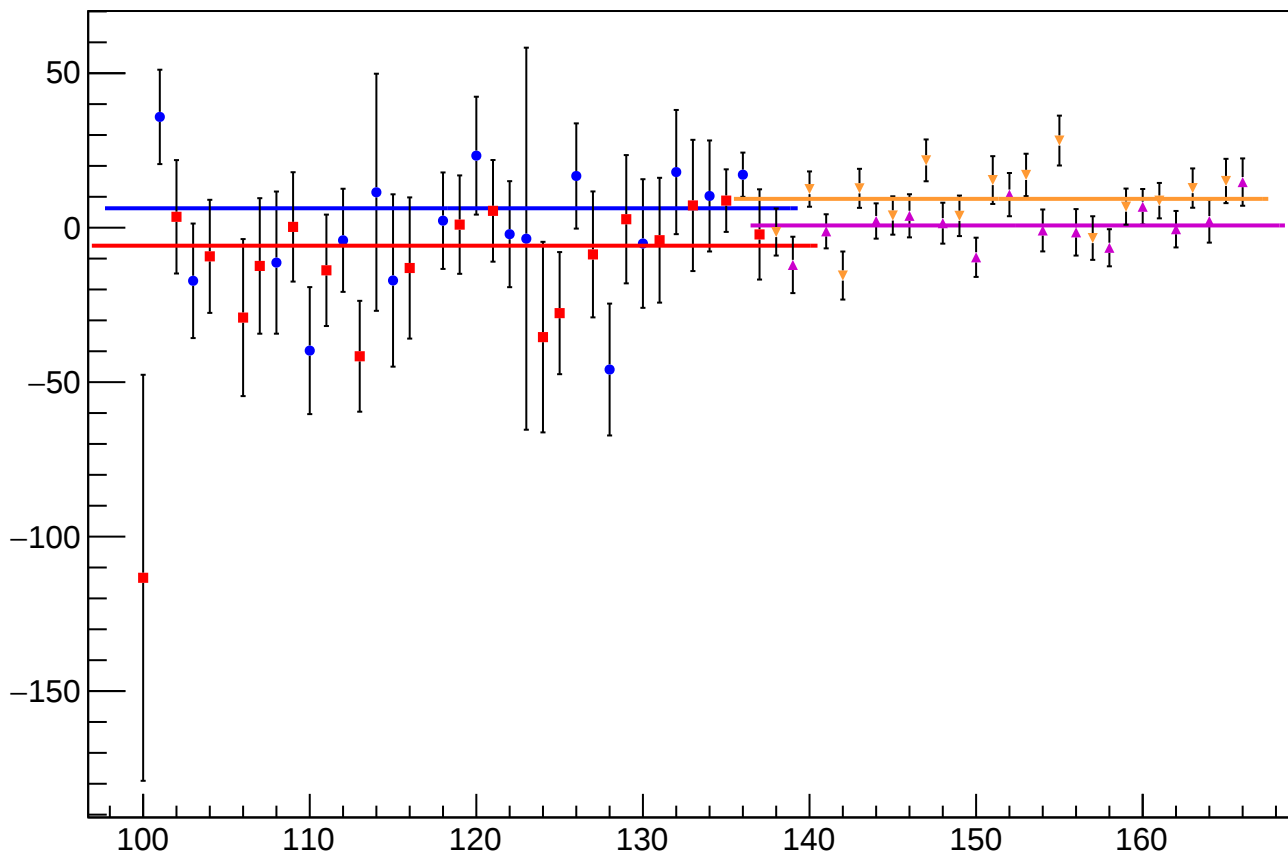
Right: 4786.972 ± 0.973 $\chi^2/\text{NDF}: 2731901.7/35$

In: 4594.783 ± 0.830 $\chi^2/\text{NDF}: 3867585.7/30$

Out: 4764.394 ± 0.838 $\chi^2/\text{NDF}: 2784887.9/33$

All: 4678.791 ± 0.589 $\chi^2/\text{NDF}: 6673172.0/64$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 ± 4.064 $\chi^2/\text{NDF}: 22.5/16$

Left Out: 9.331 ± 1.721 $\chi^2/\text{NDF}: 29.4/14$

Right Out: -5.828 ± 4.219 $\chi^2/\text{NDF}: 13.8/18$

Left In: 0.724 ± 1.746 $\chi^2/\text{NDF}: 13.2/13$

Left: 5.090 ± 1.226 $\chi^2/\text{NDF}: 54.8/28$

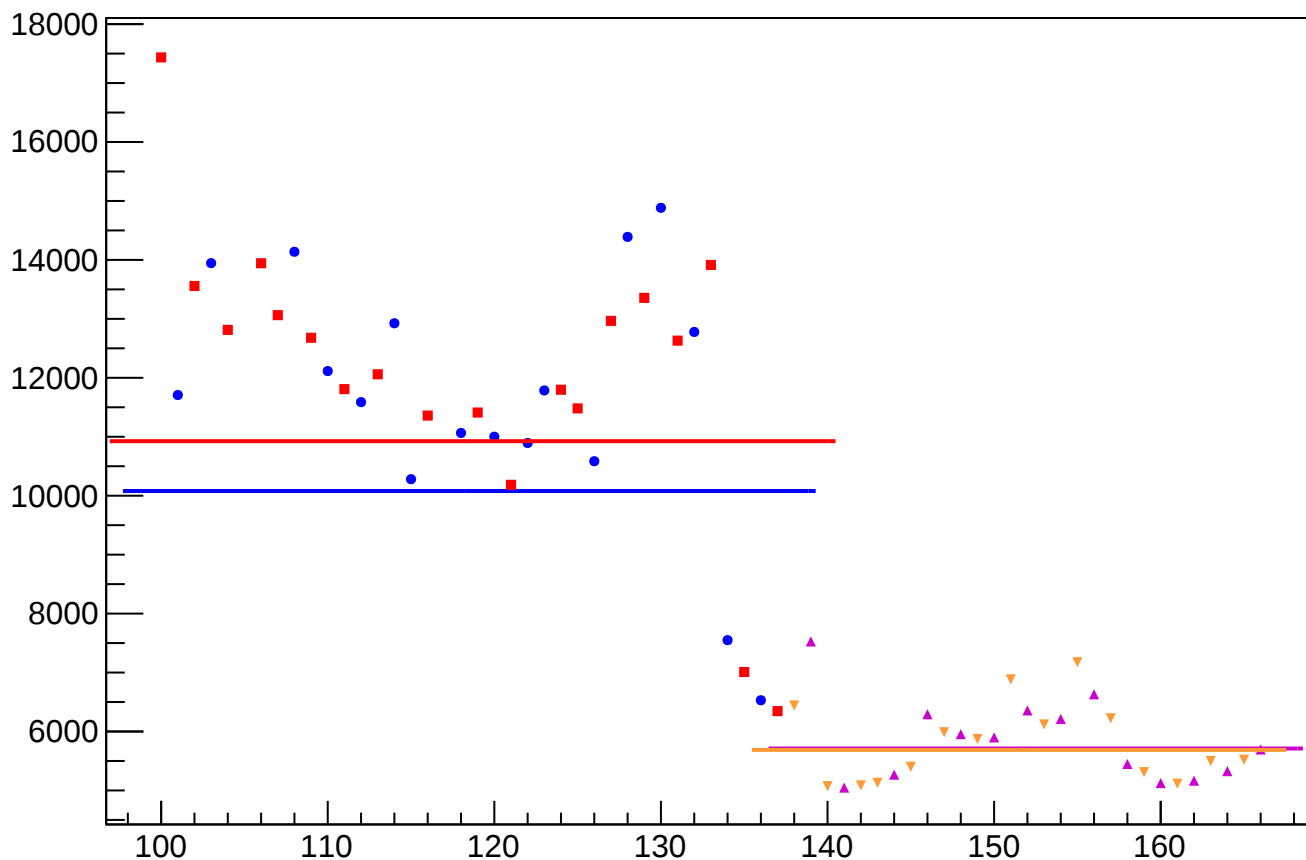
Right: 0.454 ± 2.927 $\chi^2/\text{NDF}: 40.6/35$

In: 1.590 ± 1.604 $\chi^2/\text{NDF}: 37.3/30$

Out: 7.169 ± 1.593 $\chi^2/\text{NDF}: 54.2/33$

All: 4.399 ± 1.131 $\chi^2/\text{NDF}: 97.6/64$

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: 5711.555 $\pm$ 1.235 χ^2 /NDF: 244113.9/13

Left: 5699.479 $\pm$ 0.867 χ^2 /NDF: 490837.5/28

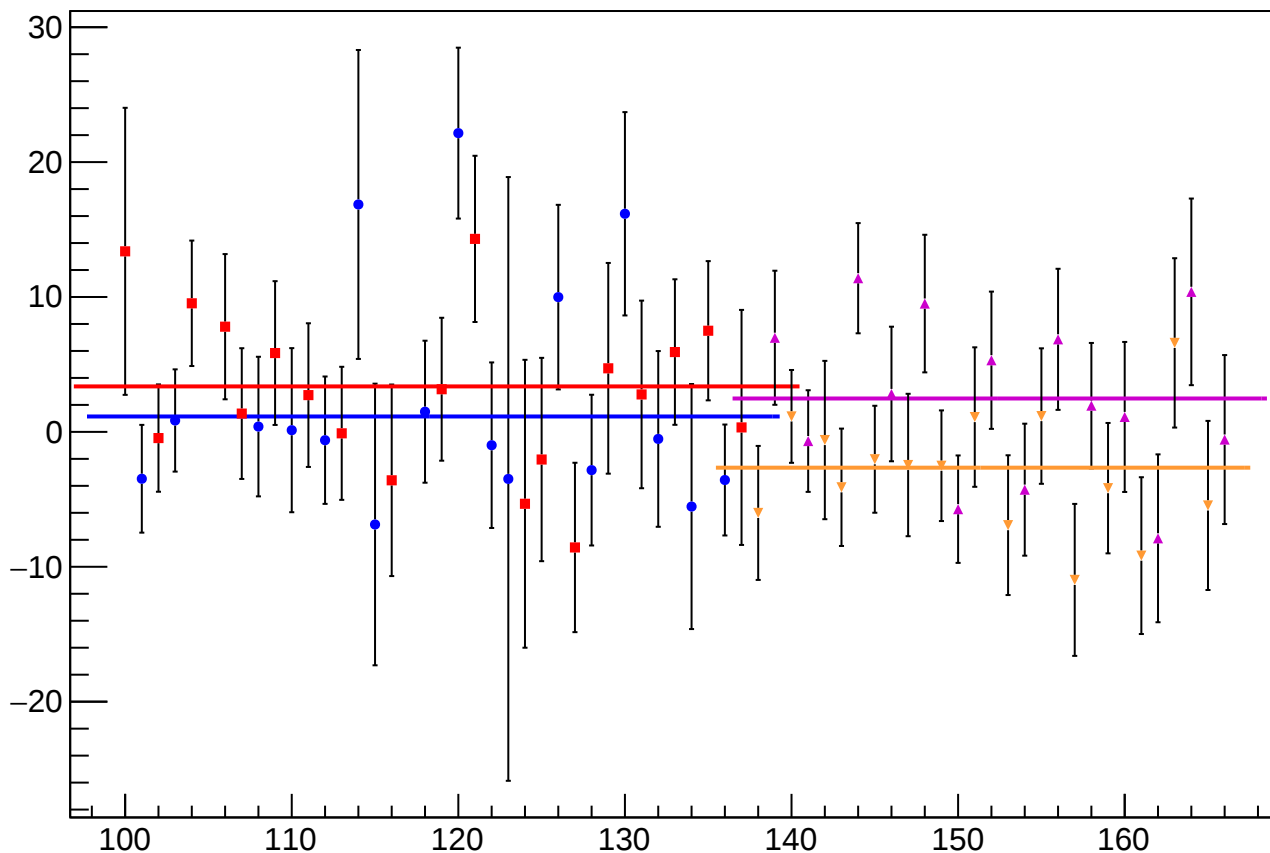
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

In: 6392.334 $\pm$ 1.135 χ^2 /NDF: 3188888.9/30

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

All: 6413.669 $\pm$ 0.799 χ^2 /NDF: 6846302.4/64

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.142 ± 1.395 $\chi^2/\text{NDF}: 23.2/16$

Left Out: -2.654 ± 1.255 $\chi^2/\text{NDF}: 9.6/14$

Right Out: 3.371 ± 1.333 $\chi^2/\text{NDF}: 15.1/18$

Left In: 2.475 ± 1.313 $\chi^2/\text{NDF}: 19.8/13$

Left: -0.204 ± 0.907 $\chi^2/\text{NDF}: 37.4/28$

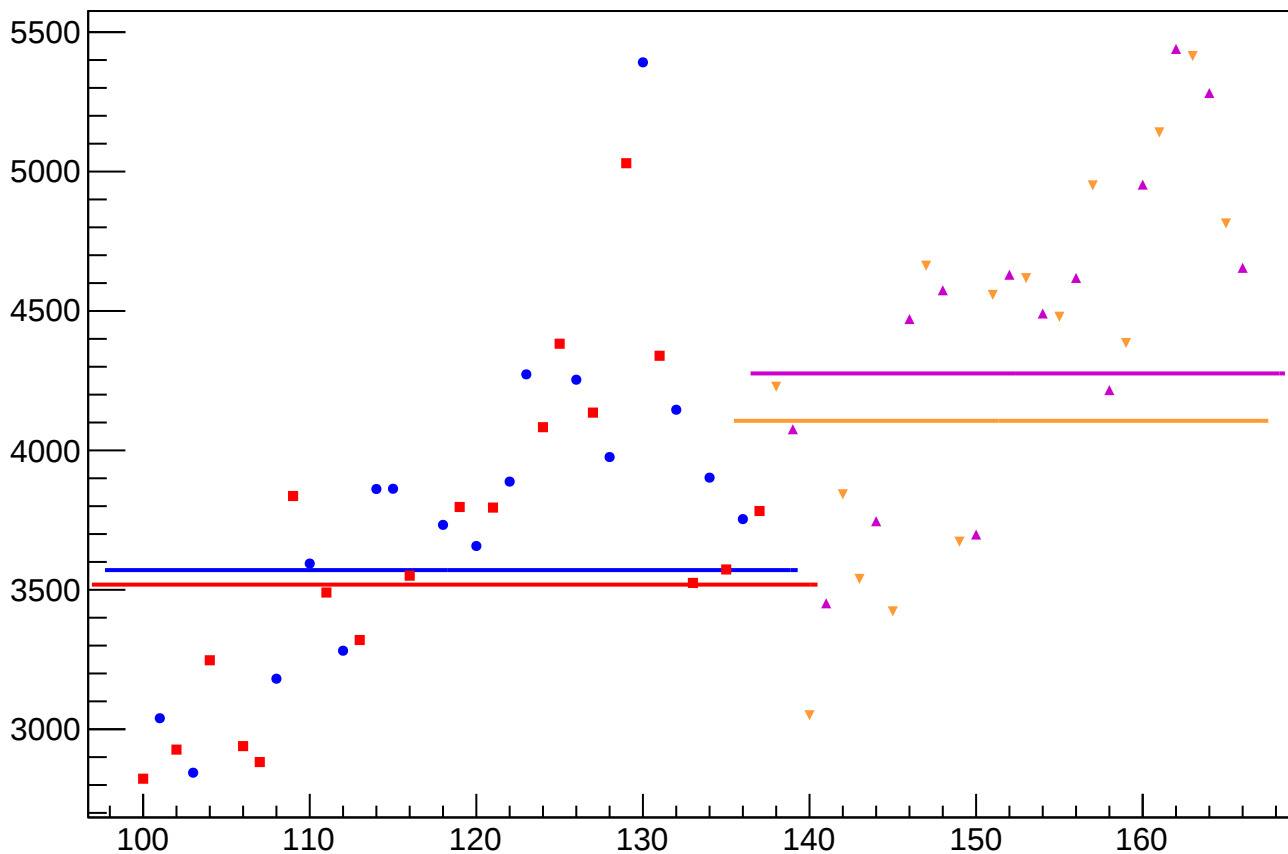
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.849 ± 0.956 $\chi^2/\text{NDF}: 43.5/30$

Out: 0.177 ± 0.914 $\chi^2/\text{NDF}: 35.5/33$

All: 0.975 ± 0.661 $\chi^2/\text{NDF}: 80.6/64$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.707 $\pm$ 0.987 χ^2 /NDF: 309568.0/16

Left Out: 4106.167 $\pm$ 0.887 χ^2 /NDF: 604661.4/14

Right Out: 3518.621 $\pm$ 0.943 χ^2 /NDF: 293227.8/18

Left In: 4275.984 $\pm$ 0.928 χ^2 /NDF: 356328.9/13

Left: 4187.268 $\pm$ 0.641 χ^2 /NDF: 978476.8/28

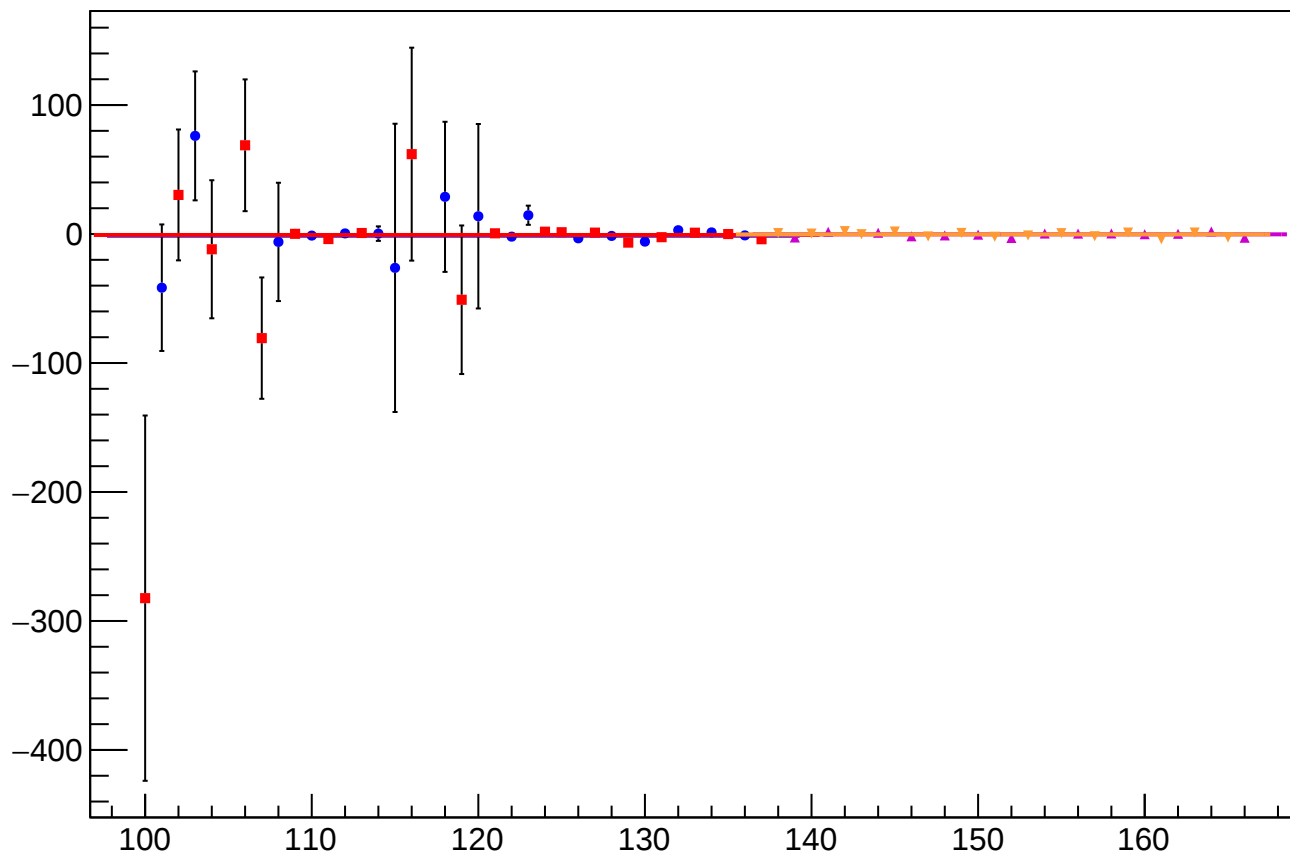
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

In: 3944.822 $\pm$ 0.676 χ^2 /NDF: 936990.9/30

Out: 3830.103 $\pm$ 0.646 χ^2 /NDF: 1103832.8/33

All: 3884.874 $\pm$ 0.467 χ^2 /NDF: 2055871.9/64

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: -0.236 ± 0.320 χ^2/NDF : 21.9/13

Left: -0.257 ± 0.225 χ^2/NDF : 51.7/28

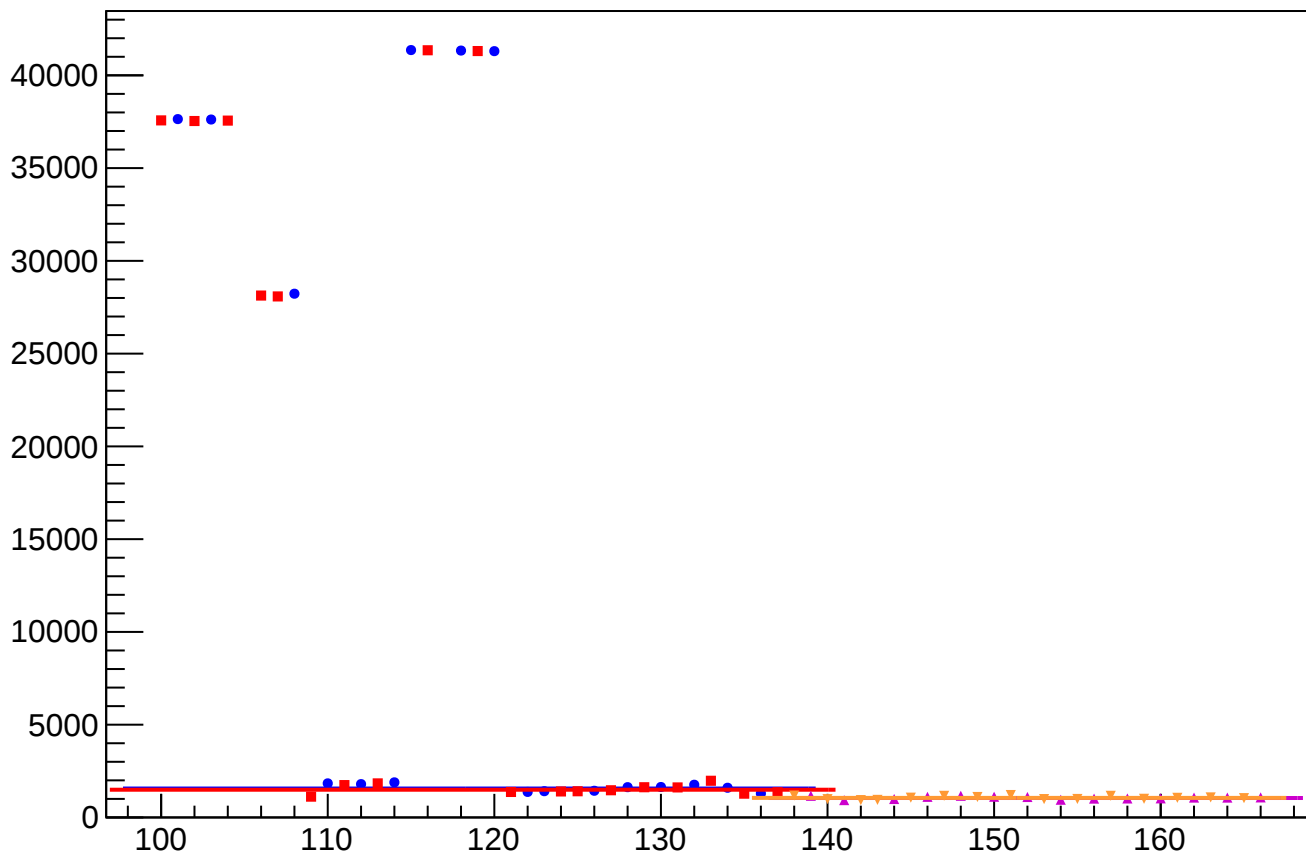
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.394 ± 0.294 χ^2/NDF : 39.8/30

Out: -0.353 ± 0.290 χ^2/NDF : 52.2/33

All: -0.373 ± 0.206 χ^2/NDF : 92.0/64

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1558.988 ± 0.529 $\chi^2/\text{NDF}: 4753669.7/16$

Left Out: 1054.294 ± 0.225 $\chi^2/\text{NDF}: 129619.9/14$

Right Out: 1494.619 ± 0.502 $\chi^2/\text{NDF}: 4892920.0/18$

Left In: 1048.273 ± 0.226 $\chi^2/\text{NDF}: 98493.8/13$

Left: 1051.301 ± 0.159 $\chi^2/\text{NDF}: 228470.7/28$

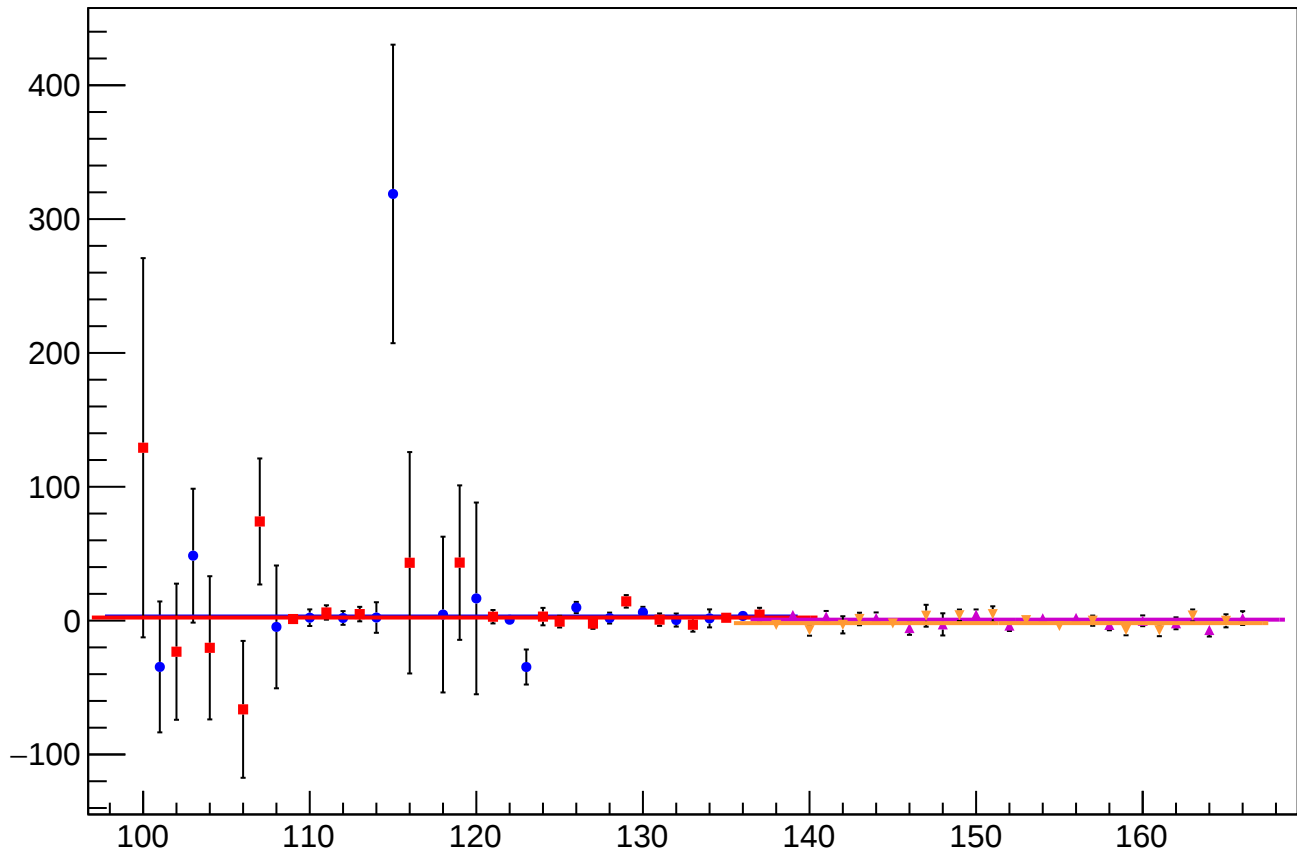
Right: 1525.146 ± 0.364 $\chi^2/\text{NDF}: 9654379.4/35$

In: 1127.120 ± 0.208 $\chi^2/\text{NDF}: 5640879.4/30$

Out: 1127.695 ± 0.205 $\chi^2/\text{NDF}: 5663018.3/33$

All: 1127.411 ± 0.146 $\chi^2/\text{NDF}: 11303901.6/66$

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.075 $\pm$ 1.323 χ^2 /NDF: 21.9/16

Left Out: -1.874 $\pm$ 1.038 χ^2 /NDF:11.9/14

Right Out: 2.306 $\pm$ 1.235 χ^2 /NDF: 16.9/18

Left In: 0.716 $\pm$ 1.064 χ^2 /NDF:10.6/13

Left: -0.611 $\pm$ 0.743 χ^2 /NDF: 25.6/28

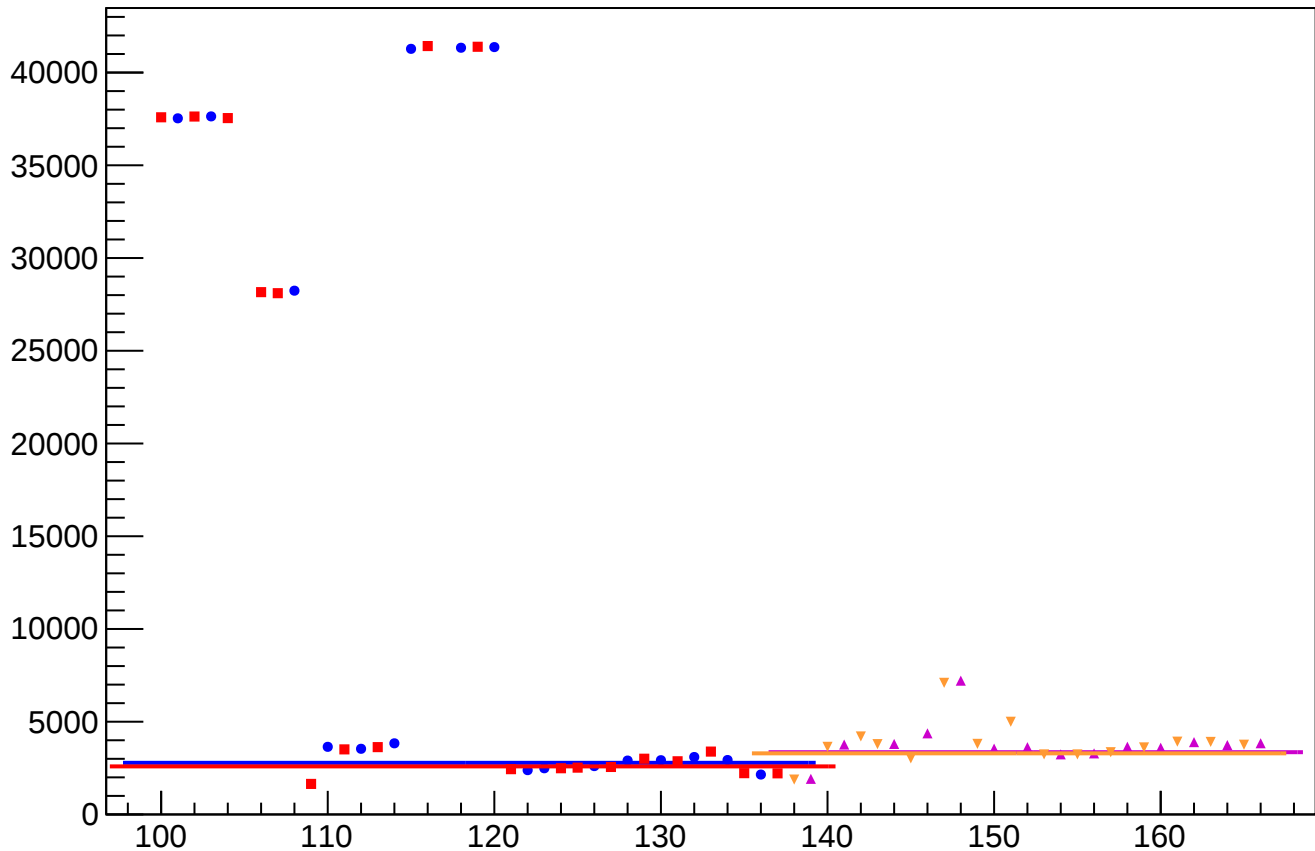
Right: 2.664 $\pm$ 0.903 χ^2 /NDF: 39.0/35

In: 1.642 $\pm$ 0.829 χ^2 /NDF:34.4/30

Out: -0.142 $\pm$ 0.795 χ^2 /NDF:35.6/33

All: 0.712 $\pm$ 0.574 χ^2 /NDF: 72.4/64

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: 3357.094+/-0.753 χ^2/NDF : 1388374.5/13

Left: 3325.021+/-0.526 χ^2/NDF : 3002524.1/28

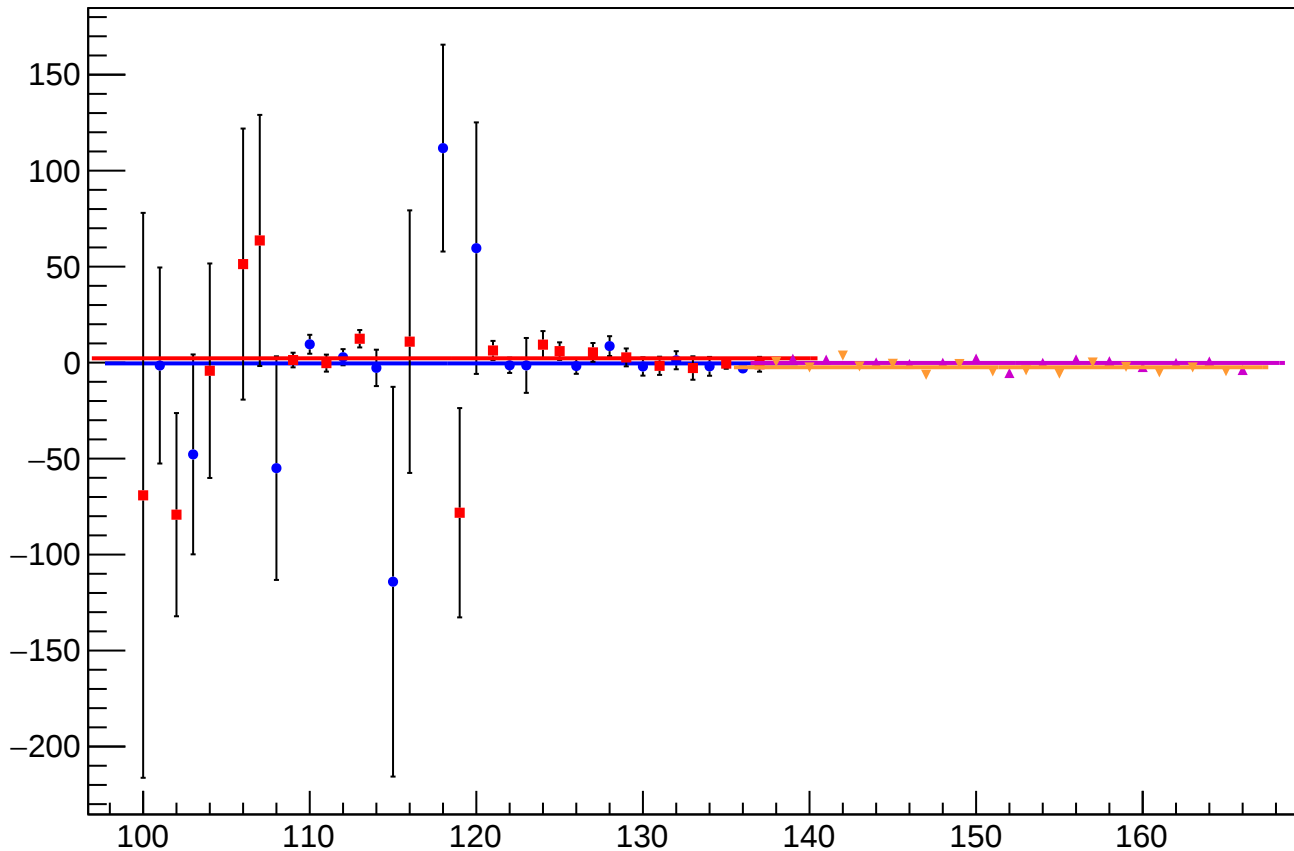
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3131.968+/-0.586 χ^2/NDF : 6193598.6/30

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

All: 3064.765+/-0.406 χ^2/NDF : 13056285.9/66

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: -0.169 ± 0.506 χ^2/NDF : 16.0/13

Left: -1.309 ± 0.355 χ^2/NDF : 50.1/28

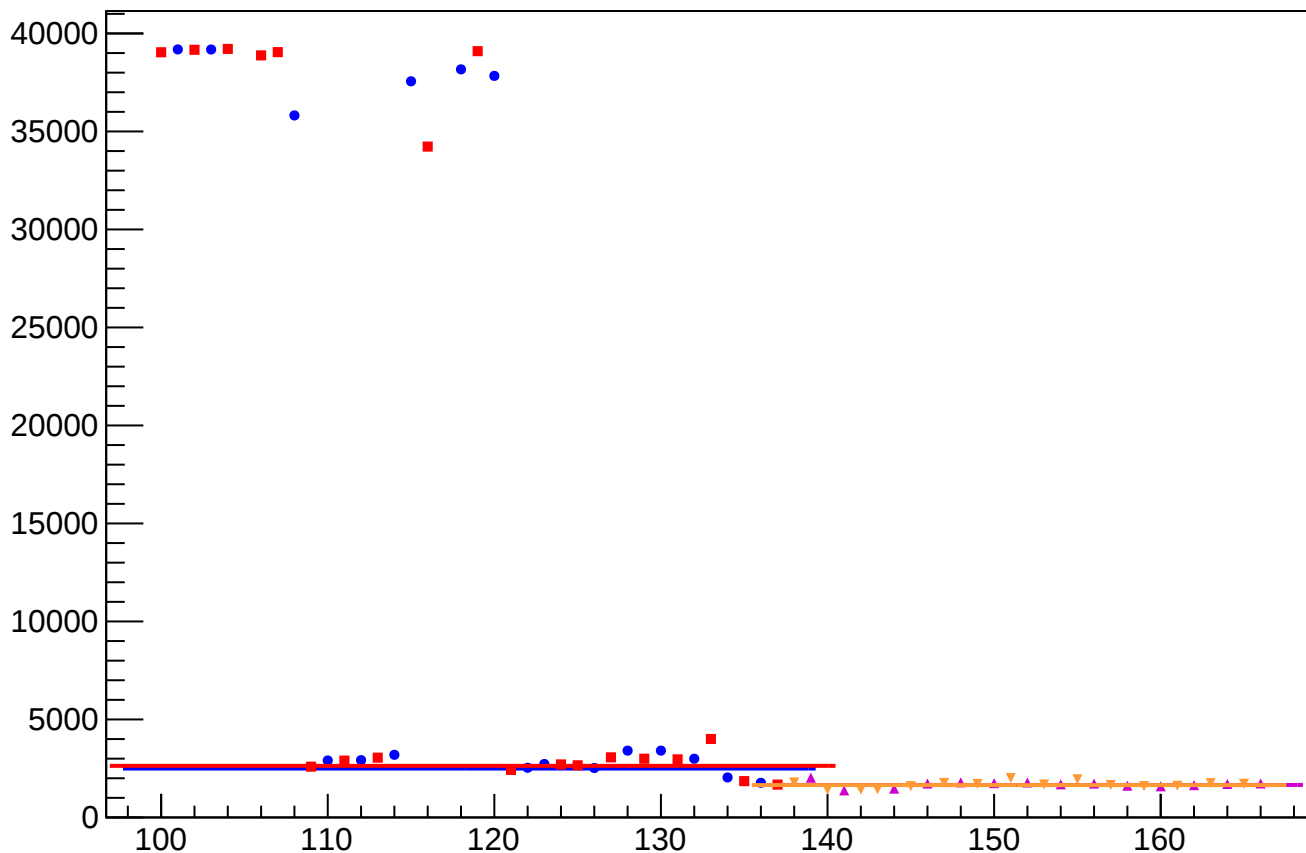
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.204 ± 0.467 χ^2/NDF : 34.3/30

Out: -1.772 ± 0.463 χ^2/NDF : 53.6/33

All: -0.995 ± 0.329 χ^2/NDF : 93.6/64

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2495.603+/-0.861 χ^2/NDF : 4882334.6/16

Left Out: 1651.143+/-0.353 χ^2/NDF : 210909.4/14

Right Out: 2633.244+/-0.881 χ^2/NDF : 4860512.6/18

Left In: 1657.293+/-0.358 χ^2/NDF : 176547.5/13

Left: 1654.173+/-0.251 χ^2/NDF : 387606.8/28

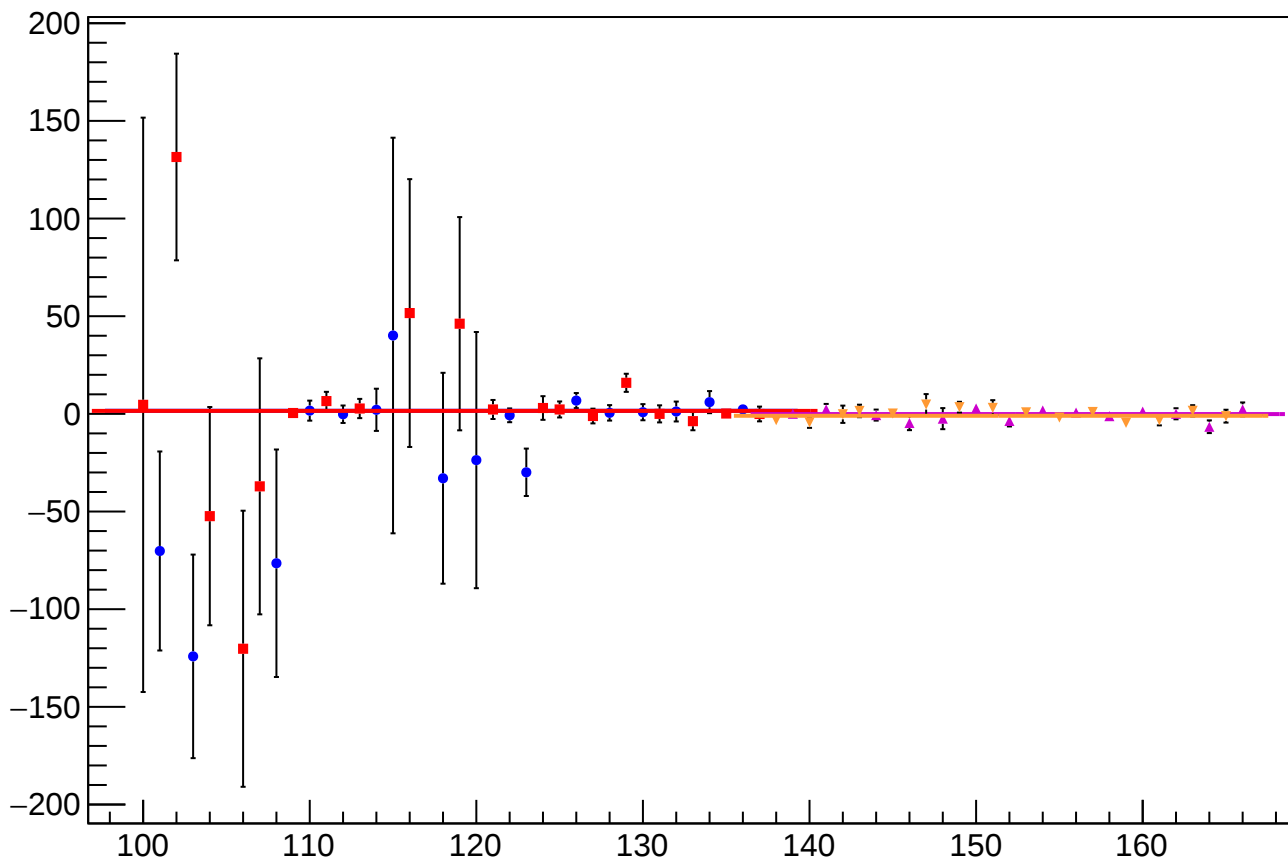
Right: 2562.854+/-0.616 χ^2/NDF : 9755329.9/35

In: 1780.751+/-0.330 χ^2/NDF : 5867004.1/30

Out: 1786.774+/-0.327 χ^2/NDF : 6142489.4/33

All: 1783.791+/-0.233 χ^2/NDF : 12009661.1/6

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: -0.114 ± 0.673 $\chi^2/\text{NDF}: 11.1/13$

Left: -0.541 ± 0.478 $\chi^2/\text{NDF}: 26.4/28$

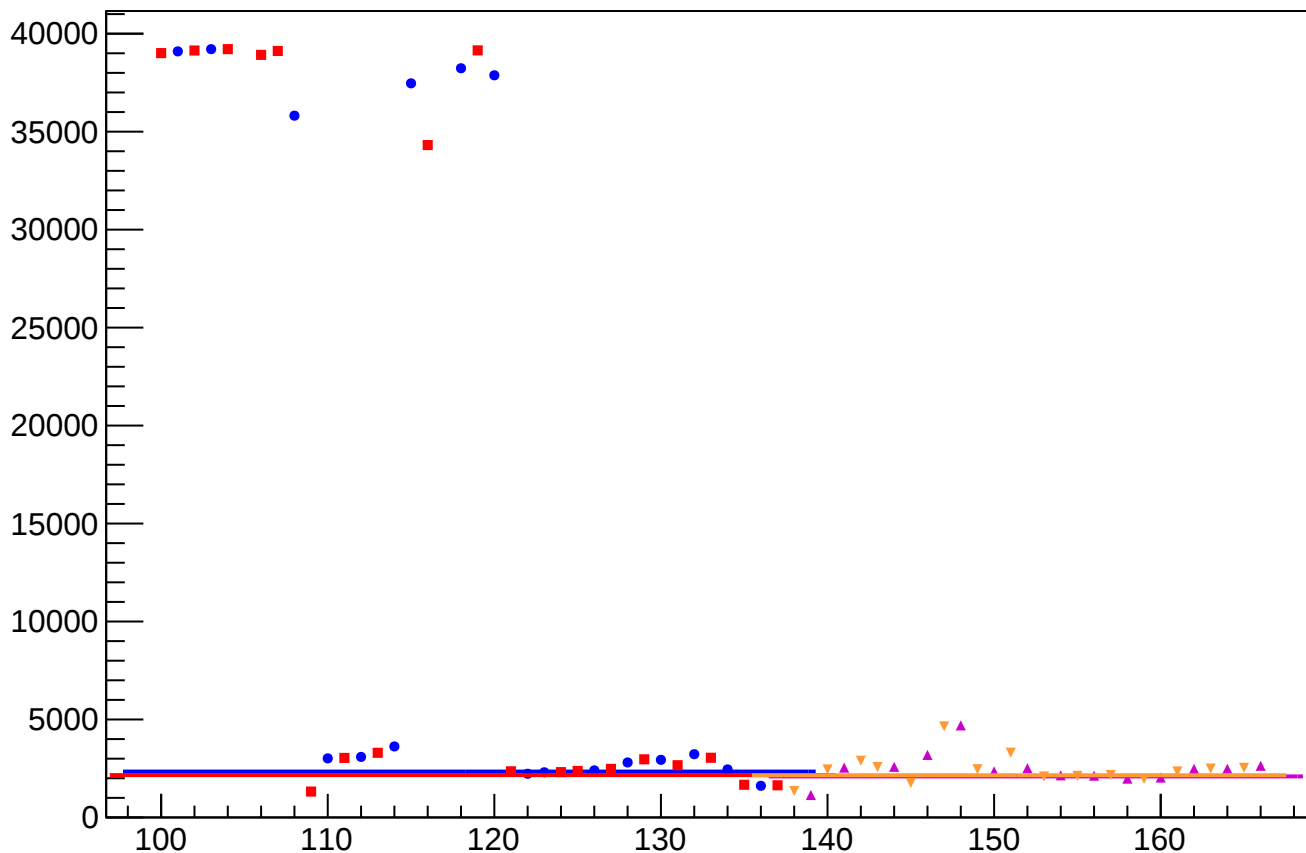
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.321 ± 0.580 $\chi^2/\text{NDF}: 33.0/30$

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

All: 0.032 ± 0.407 $\chi^2/\text{NDF}: 77.0/64$

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: 2094.445+/-0.476 χ^2/NDF :1876422.0/13

Left: 2124.110+/-0.338 χ^2/NDF : 3224914.1/28

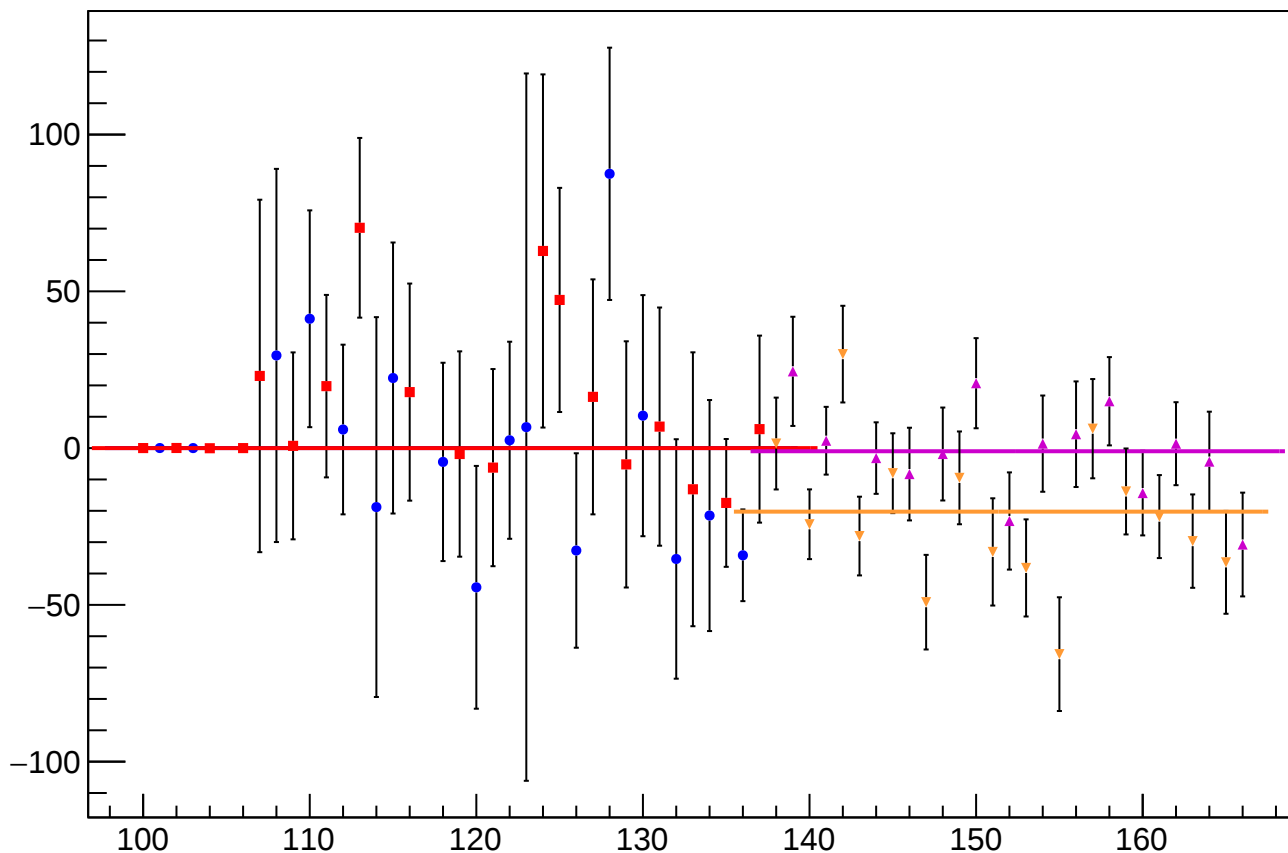
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2157.897+/-0.410 χ^2/NDF :6952488.3/30

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

All: 2157.136+/-0.288 χ^2/NDF : 13592225.9/66

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 16.2/16

Left Out: -20.262 $\pm$ 3.719 χ^2/NDF : 31.0/14

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 15.9/18

Left In: -1.001 $\pm$ 3.799 χ^2/NDF : 12.6/13

Left: -10.836 $\pm$ 2.658 χ^2/NDF : 56.7/28

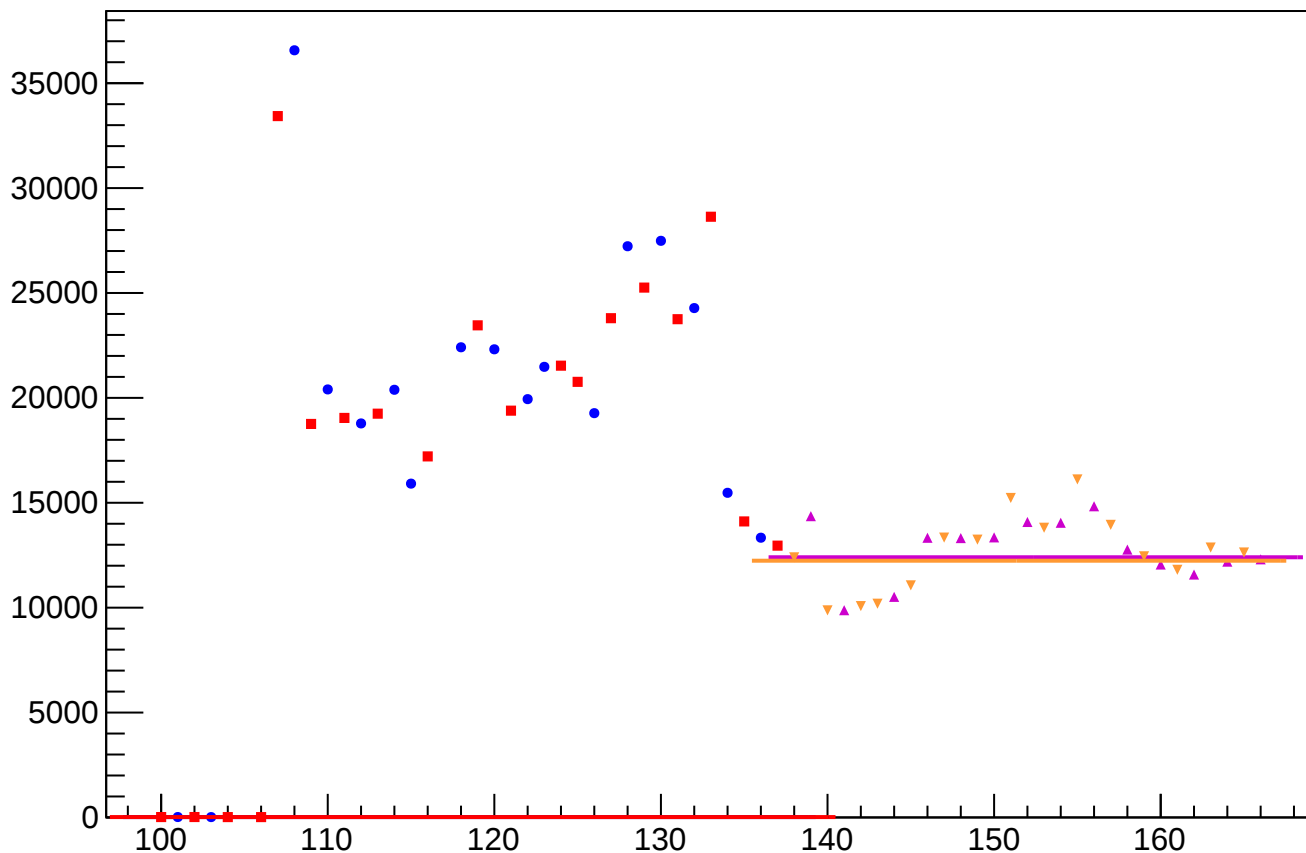
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 32.5/35

In: 0.013 $\pm$ 0.017 χ^2/NDF : 28.8/30

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 76.6/33

All: 0.004 $\pm$ 0.012 χ^2/NDF : 105.9/64

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: 12402.238 $\pm$ 2.686 χ^2 /NDF: 312351.1/13

Left: 12318.532 $\pm$ 1.879 χ^2 /NDF: 738307.6/28

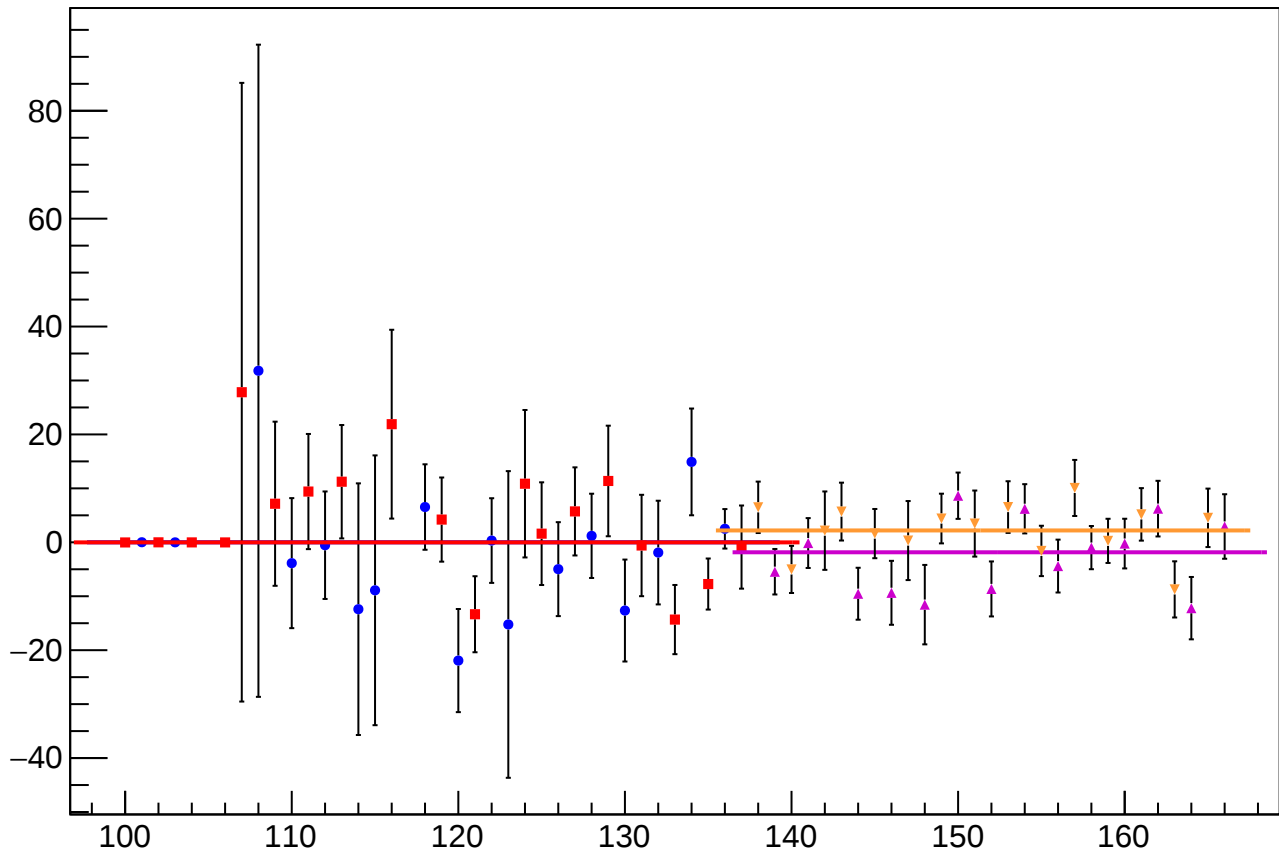
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.899 $\pm$ 0.012 χ^2 /NDF: 32546998.8/30

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

All: 18.706 $\pm$ 0.008 χ^2 /NDF: 65673316.5/64

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 13.0/16$

Left Out: 2.198 ± 1.302 $\chi^2/\text{NDF}: 13.3/14$

Right Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 18.6/18$

Left In: -1.851 ± 1.313 $\chi^2/\text{NDF}: 24.4/13$

Left: 0.190 ± 0.924 $\chi^2/\text{NDF}: 42.5/28$

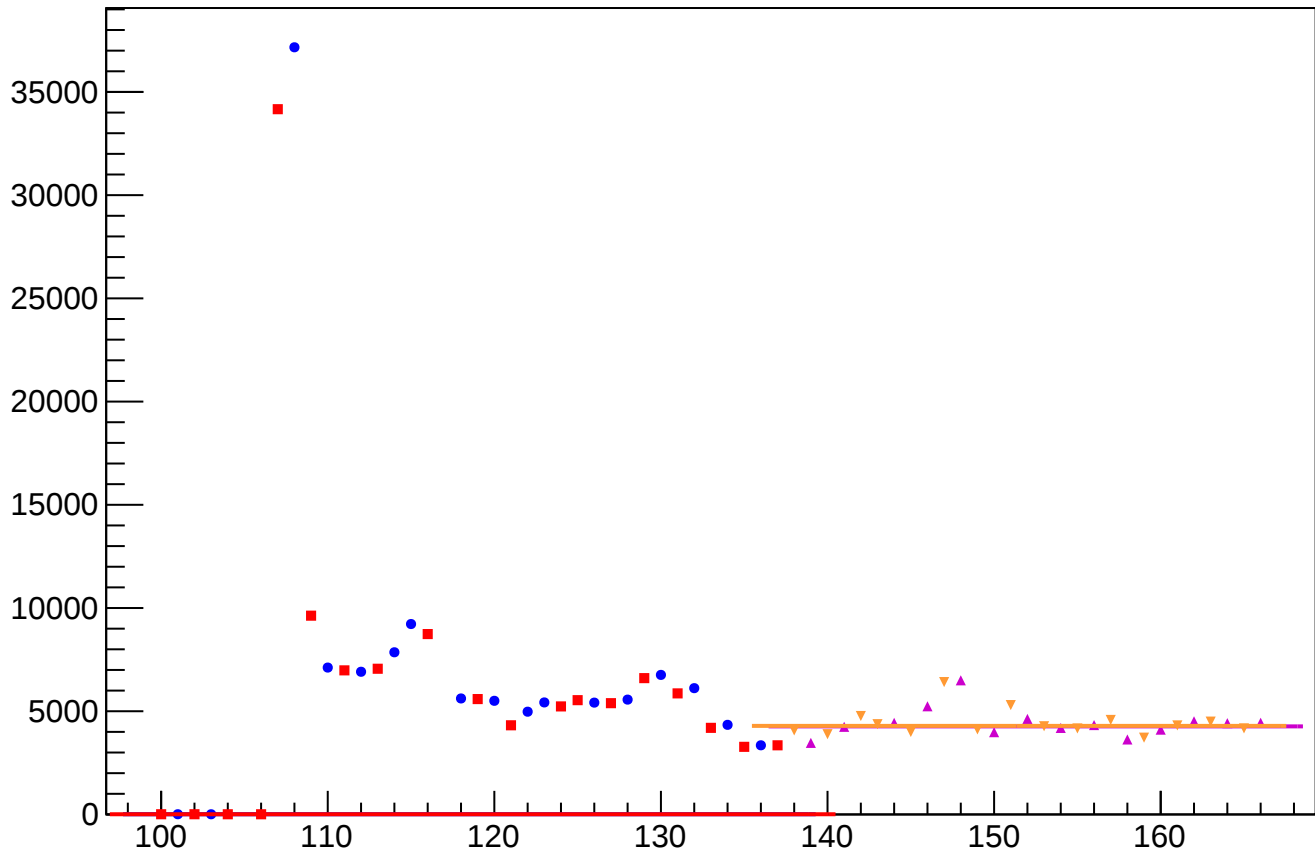
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 39.4/30$

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 34.7/33$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 75.5/64$

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: 4266.496 $\pm$ 0.928 χ^2 /NDF:391683.1/13

Left: 4278.594 $\pm$ 0.654 χ^2 /NDF: 705994.1/28

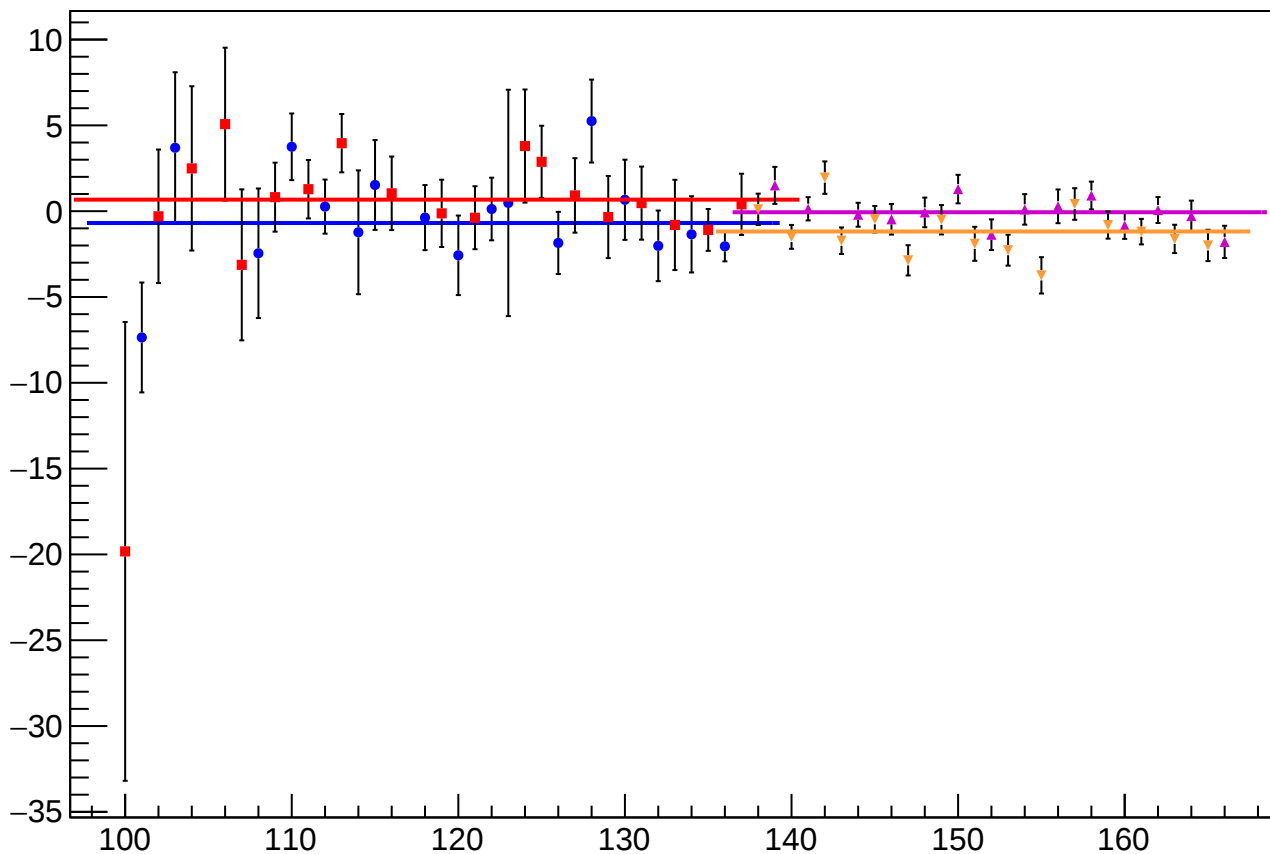
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22274609.0/35

In: 10.148 $\pm$ 0.007 χ^2 /NDF:32539030.6/30

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

All: 10.093 $\pm$ 0.004 χ^2 /NDF: 65626171.6/64

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: -0.061 ± 0.223 χ^2/NDF : 13.3/13

Left: -0.632 ± 0.157 χ^2/NDF : 57.2/28

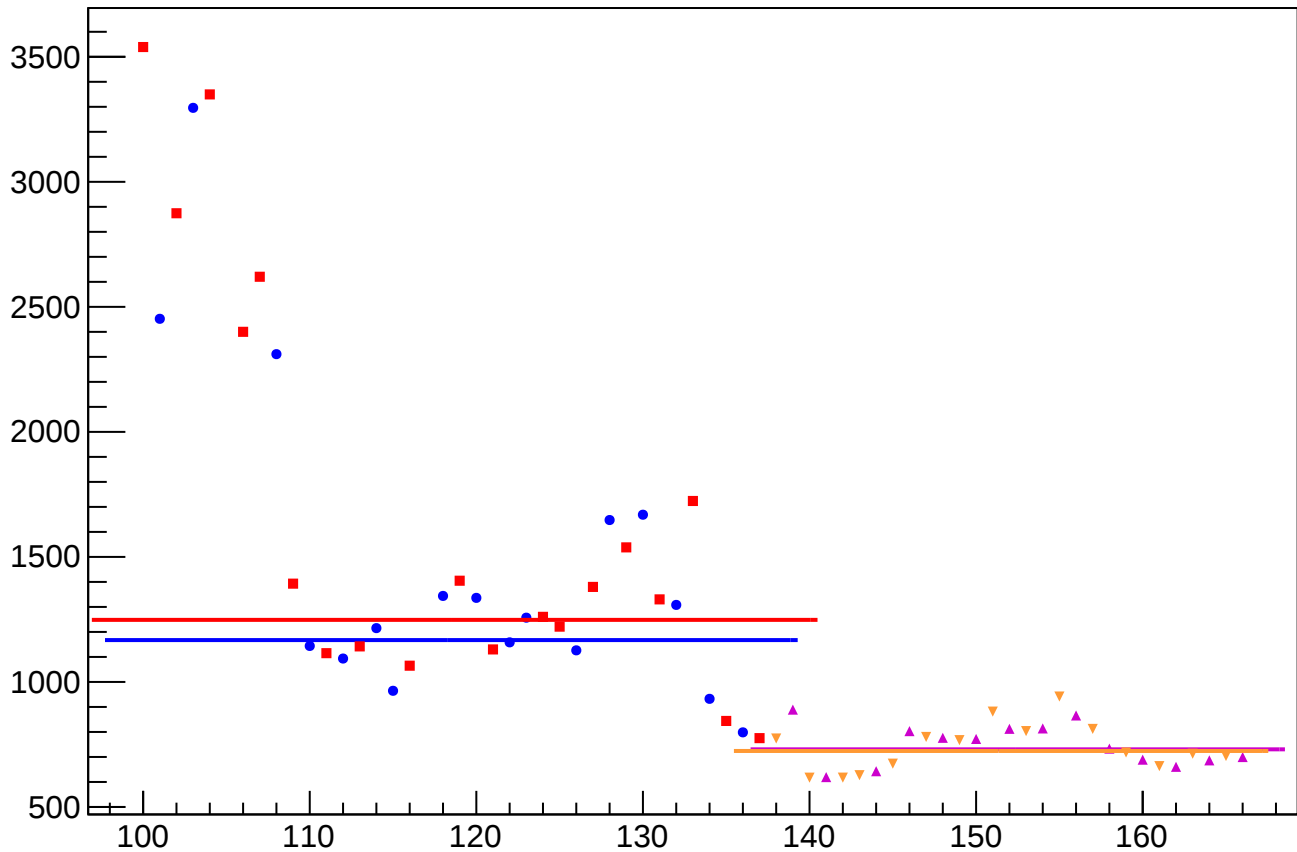
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: -0.172 ± 0.203 χ^2/NDF : 37.2/30

Out: -0.884 ± 0.201 χ^2/NDF : 55.8/33

All: -0.531 ± 0.143 χ^2/NDF : 99.3/64

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: 730.486 $\pm$ 0.158 χ^2/NDF : 255180.9/13

Left: 727.169 $\pm$ 0.111 χ^2/NDF : 571531.4/28

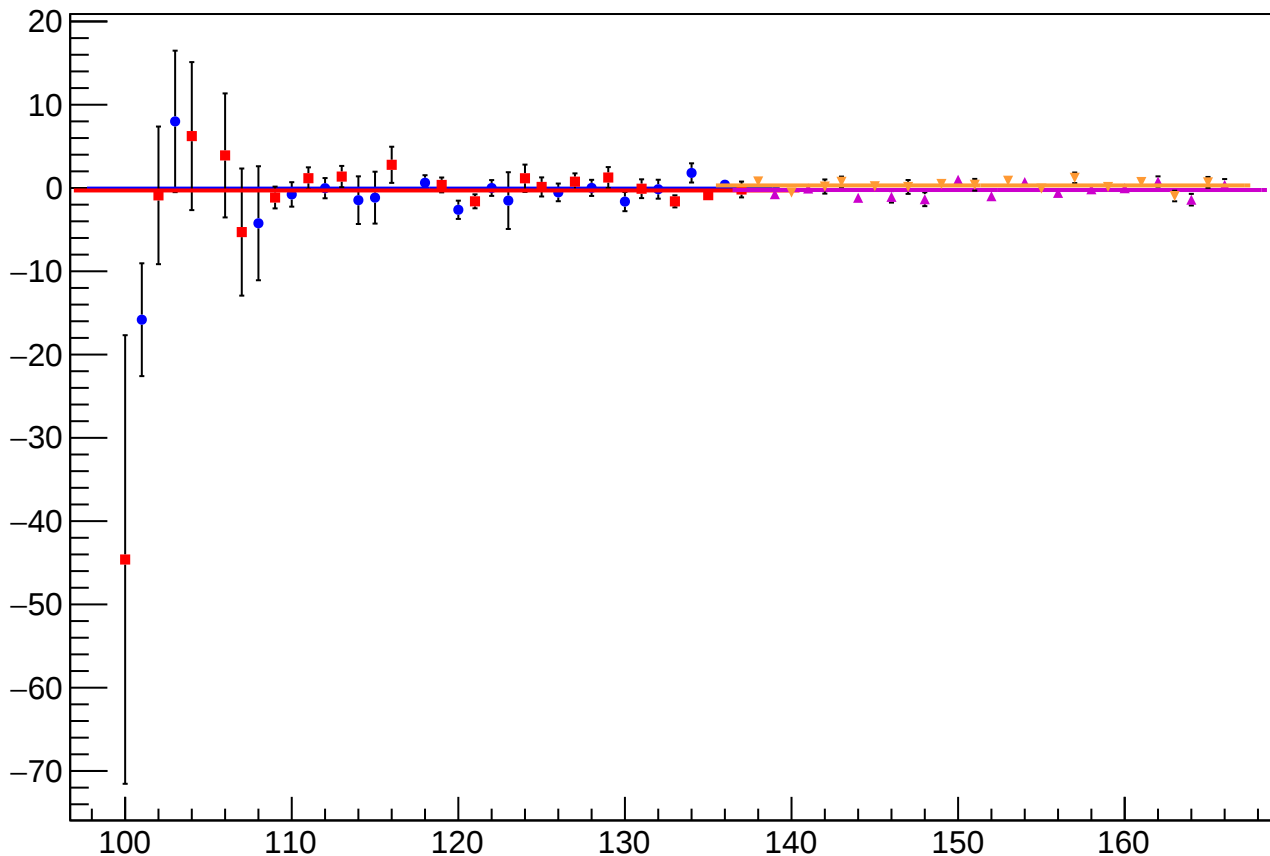
Right: 1206.306 $\pm$ 0.246 χ^2/NDF : 3259405.5/35

In: 807.664 $\pm$ 0.143 χ^2/NDF : 3185016.3/30

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

All: 808.038 $\pm$ 0.101 χ^2/NDF : 6994294.5/64

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: -0.241 ± 0.158 χ^2/NDF : 24.0/13

Left: 0.038 ± 0.111 χ^2/NDF : 42.7/28

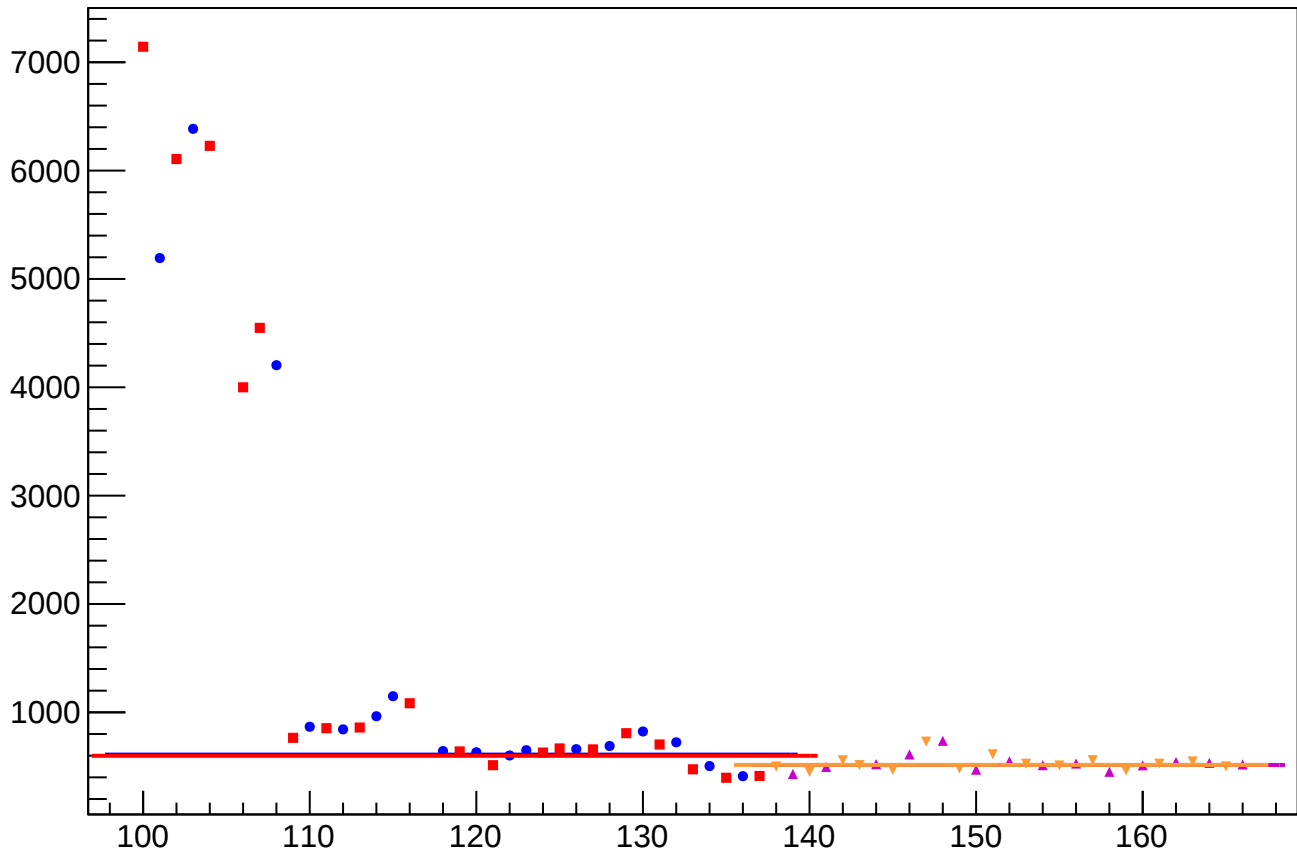
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.197 ± 0.136 χ^2/NDF : 43.5/30

Out: 0.153 ± 0.134 χ^2/NDF : 36.7/33

All: -0.020 ± 0.096 χ^2/NDF : 83.6/64

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: 514.126 $\pm$ 0.112 χ^2 /NDF: 295604.7/13

Left: 514.503 $\pm$ 0.078 χ^2 /NDF: 564577.5/28

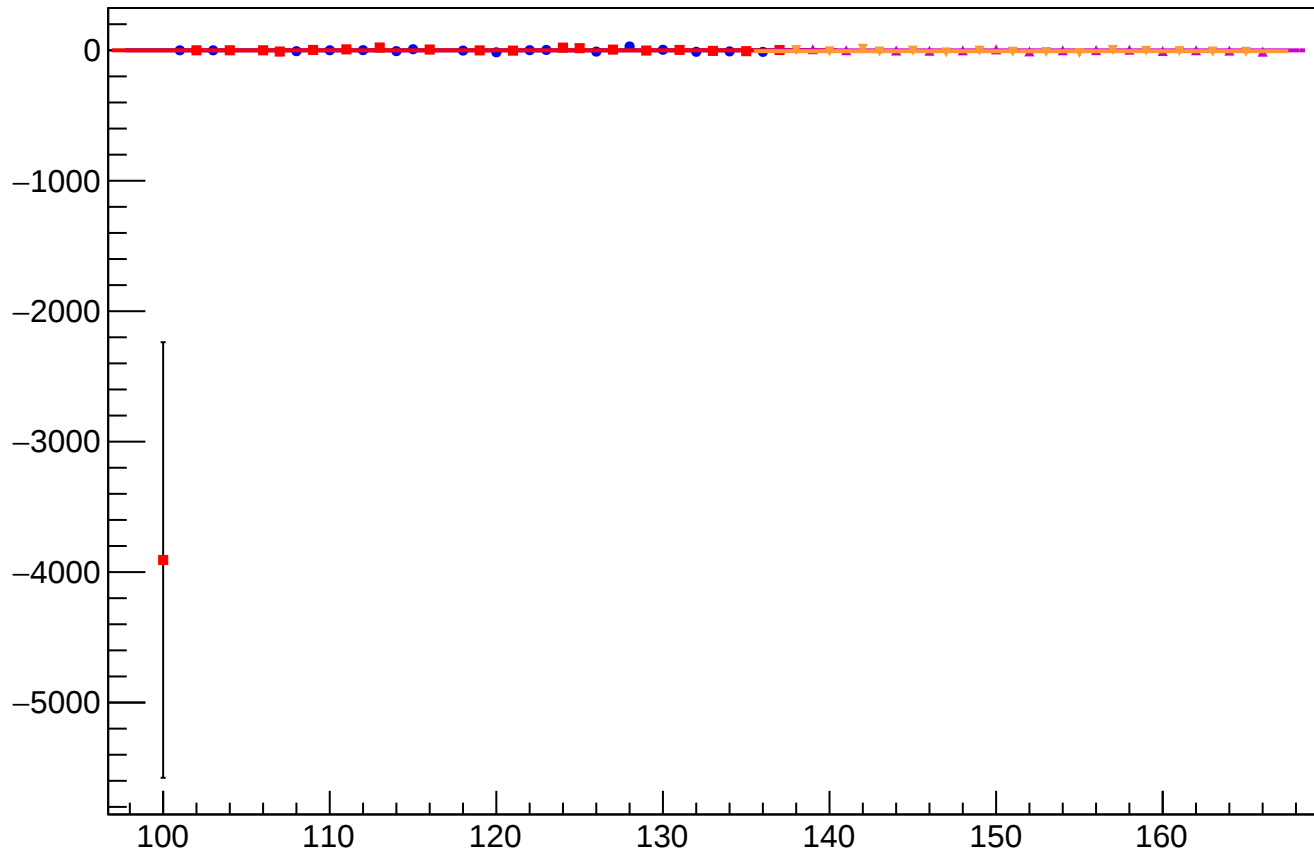
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 538.658 $\pm$ 0.096 χ^2 /NDF: 3620200.6/30

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

All: 537.646 $\pm$ 0.068 χ^2 /NDF: 7592431.5/64

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: -0.380 ± 1.305 χ^2/NDF : 13.0/13

Left: -3.672 ± 0.913 χ^2/NDF : 56.6/28

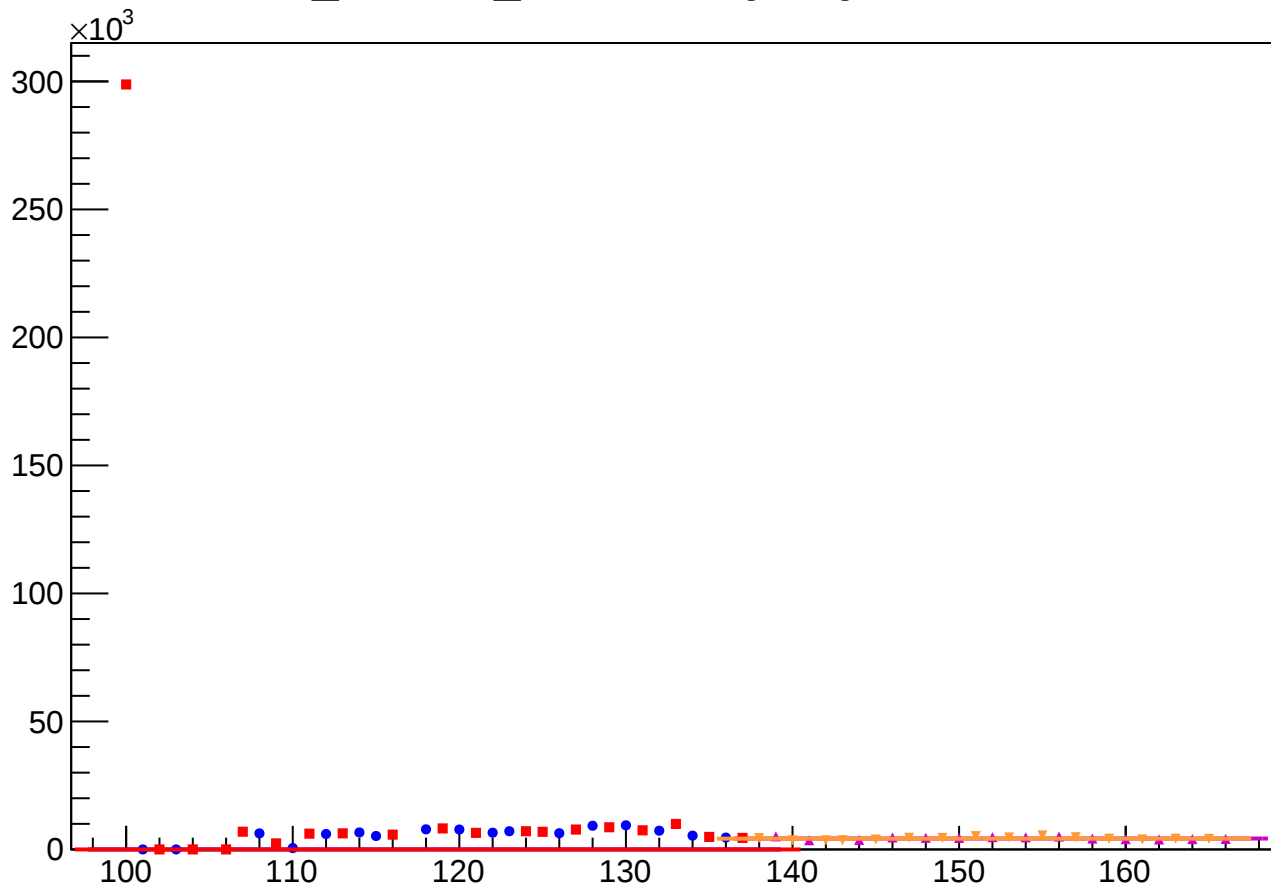
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.022 ± 0.021 χ^2/NDF : 28.7/30

Out: 0.025 ± 0.020 χ^2/NDF : 77.8/33

All: 0.003 ± 0.014 χ^2/NDF : 109.2/64

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341 $\pm$ 0.015 χ^2/NDF : 10501445.0/16

Left Out: 4217.102 $\pm$ 0.904 χ^2/NDF : 333816.5/14

Right Out: 17.269 $\pm$ 0.014 χ^2/NDF : 10820611.7/18

Left In: 4267.195 $\pm$ 0.923 χ^2/NDF : 258626.9/13

Left: 4241.633 $\pm$ 0.646 χ^2/NDF : 593947.1/28

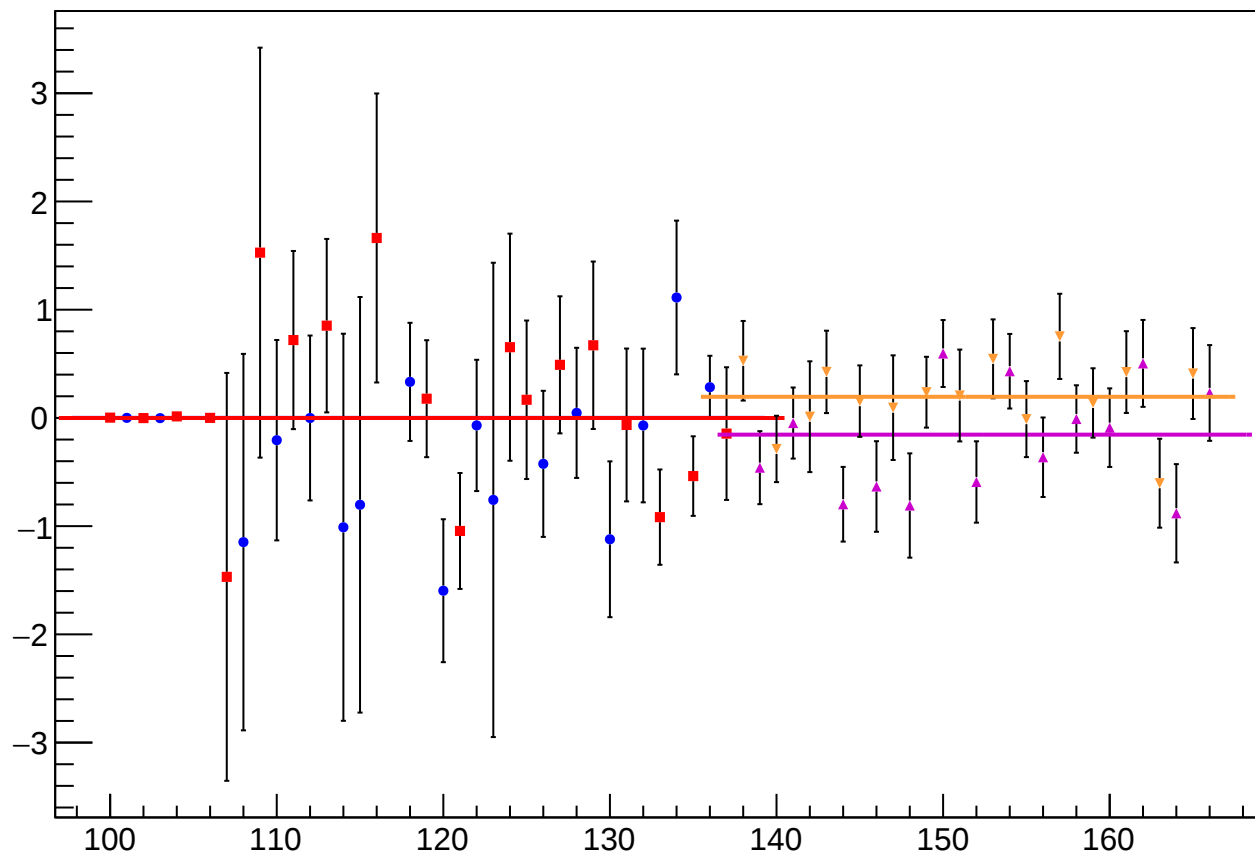
Right: 17.303 $\pm$ 0.010 χ^2/NDF : 21322069.2/35

In: 18.419 $\pm$ 0.015 χ^2/NDF : 31964502.8/30

Out: 18.273 $\pm$ 0.014 χ^2/NDF : 32733547.5/33

All: 18.343 $\pm$ 0.010 χ^2/NDF : 64698102.0/64

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: -0.155 ± 0.098 $\chi^2/\text{NDF}: 24.3/13$

Left: 0.023 ± 0.069 $\chi^2/\text{NDF}: 42.3/28$

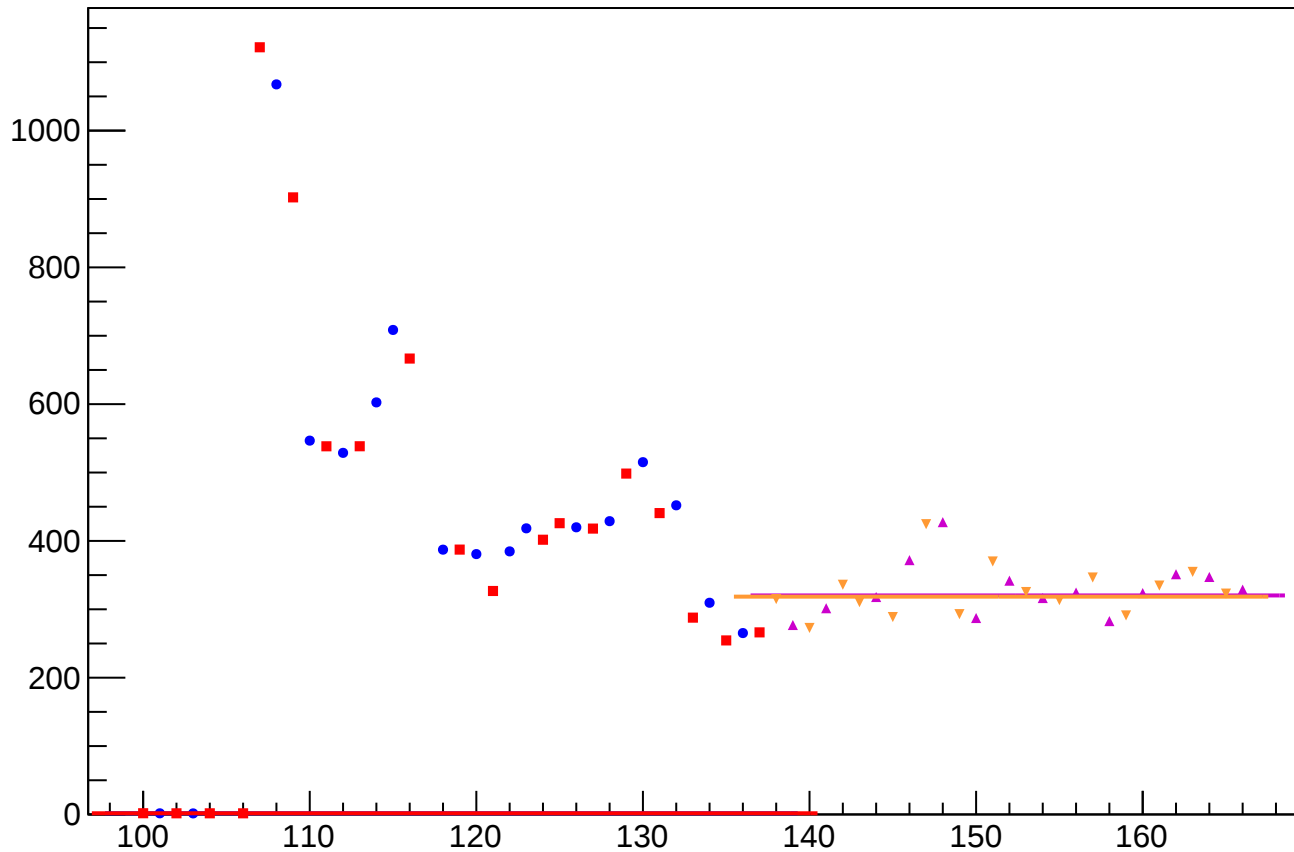
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 31.8/35$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 40.5/30$

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

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 74.2/64$

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 11053026.2/16

Left Out: 318.513 $\pm$ 0.068 χ^2 /NDF: 247282.6/14

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 10743910.0/18

Left In: 320.260 $\pm$ 0.069 χ^2 /NDF: 247621.7/13

Left: 319.372 $\pm$ 0.049 χ^2 /NDF: 495226.8/28

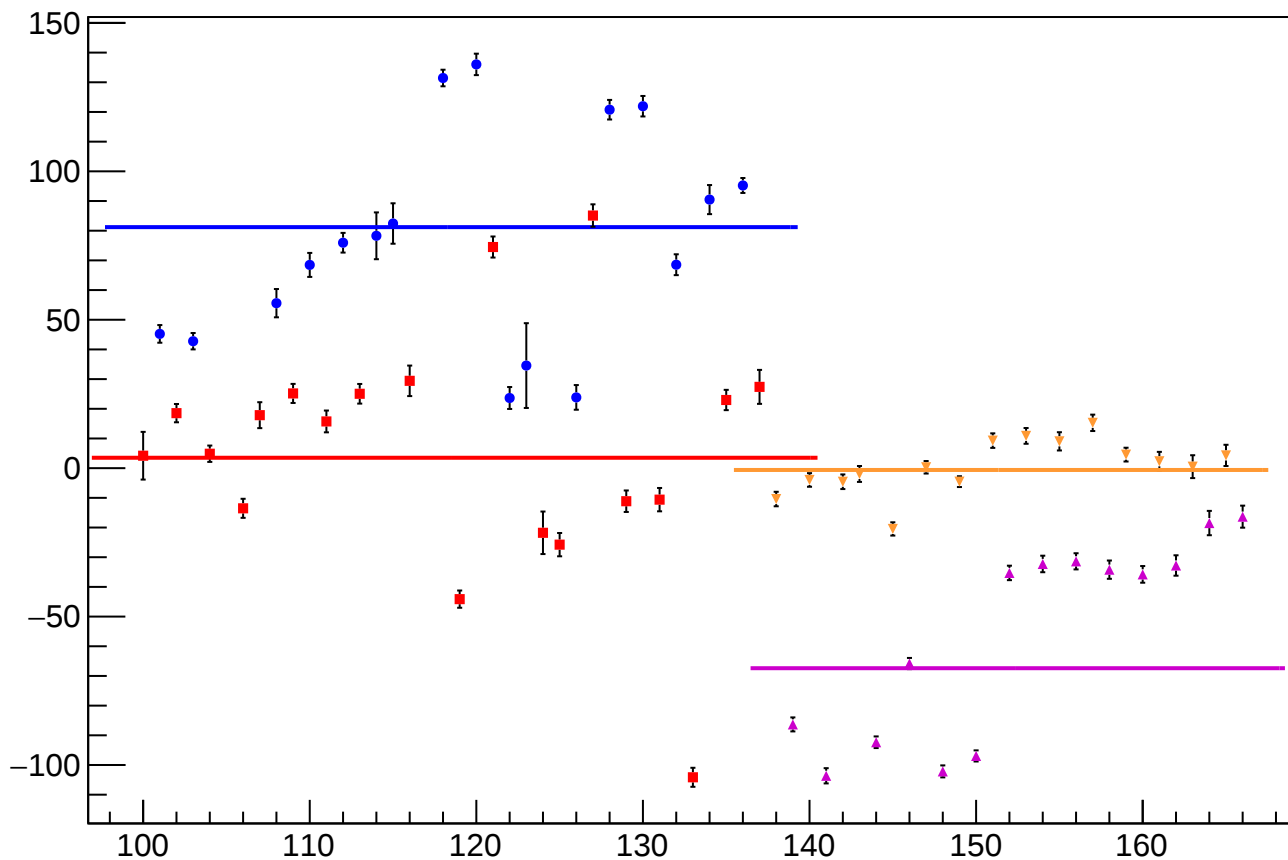
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21797153.2/35

In: 1.835 $\pm$ 0.001 χ^2 /NDF: 32375234.3/30

Out: 1.856 $\pm$ 0.001 χ^2 /NDF: 32559839.4/33

All: 1.846 $\pm$ 0.001 χ^2 /NDF: 64935191.7/64

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: -67.394+/-0.662 χ^2/NDF : 2153.1/13

Left: -33.401+/-0.464 χ^2/NDF : 7526.1/28

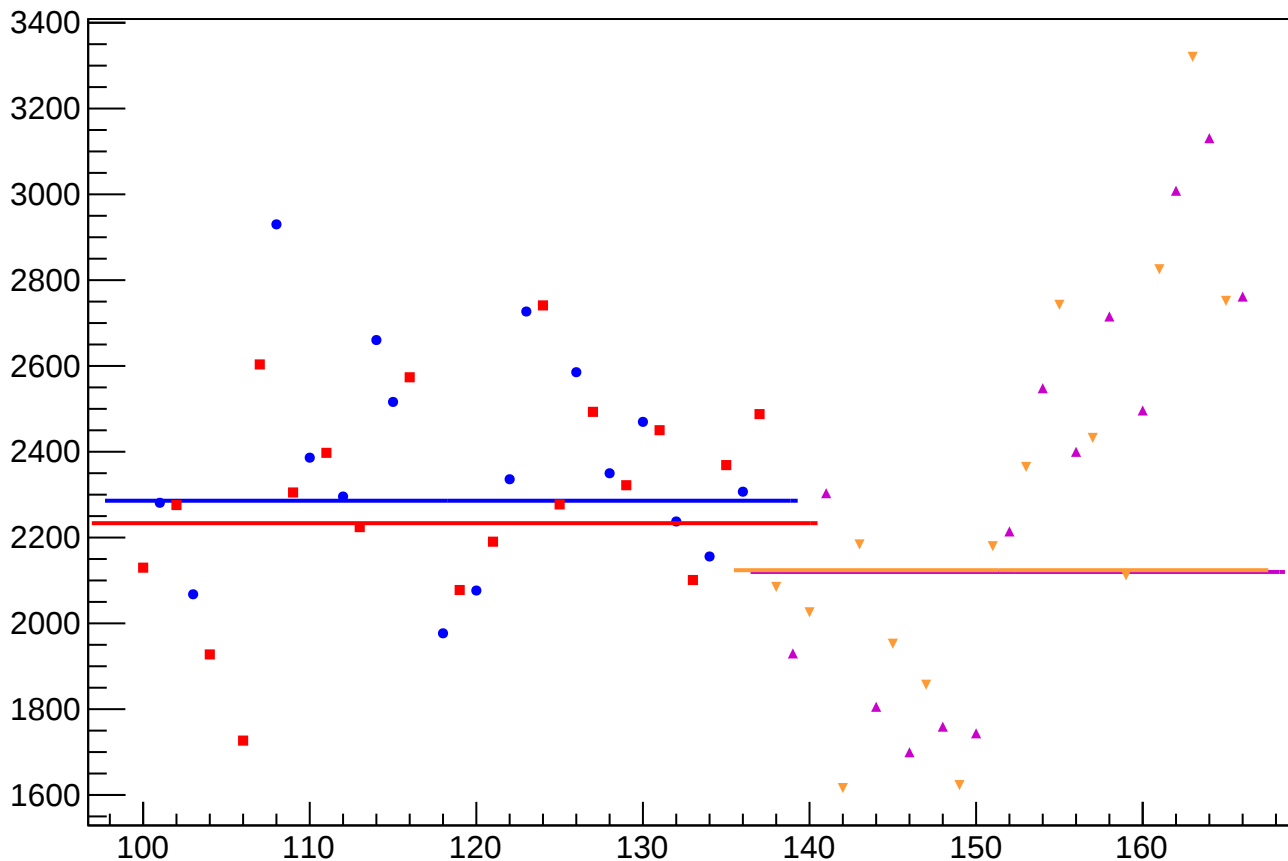
Right: 40.415+/-0.610 χ^2/NDF : 8348.3/35

In: -14.147+/-0.530 χ^2/NDF : 21924.4/30

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

All: -6.386+/-0.369 χ^2/NDF : 25145.2/64

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.855+/-0.626 χ^2/NDF : 109336.5/16

Left Out: 2123.957+/-0.460 χ^2/NDF : 761897.4/14

Right Out: 2233.547+/-0.596 χ^2/NDF : 146848.5/18

Left In: 2119.830+/-0.468 χ^2/NDF : 815316.3/13

Left: 2121.931+/-0.328 χ^2/NDF : 1577253.3/28

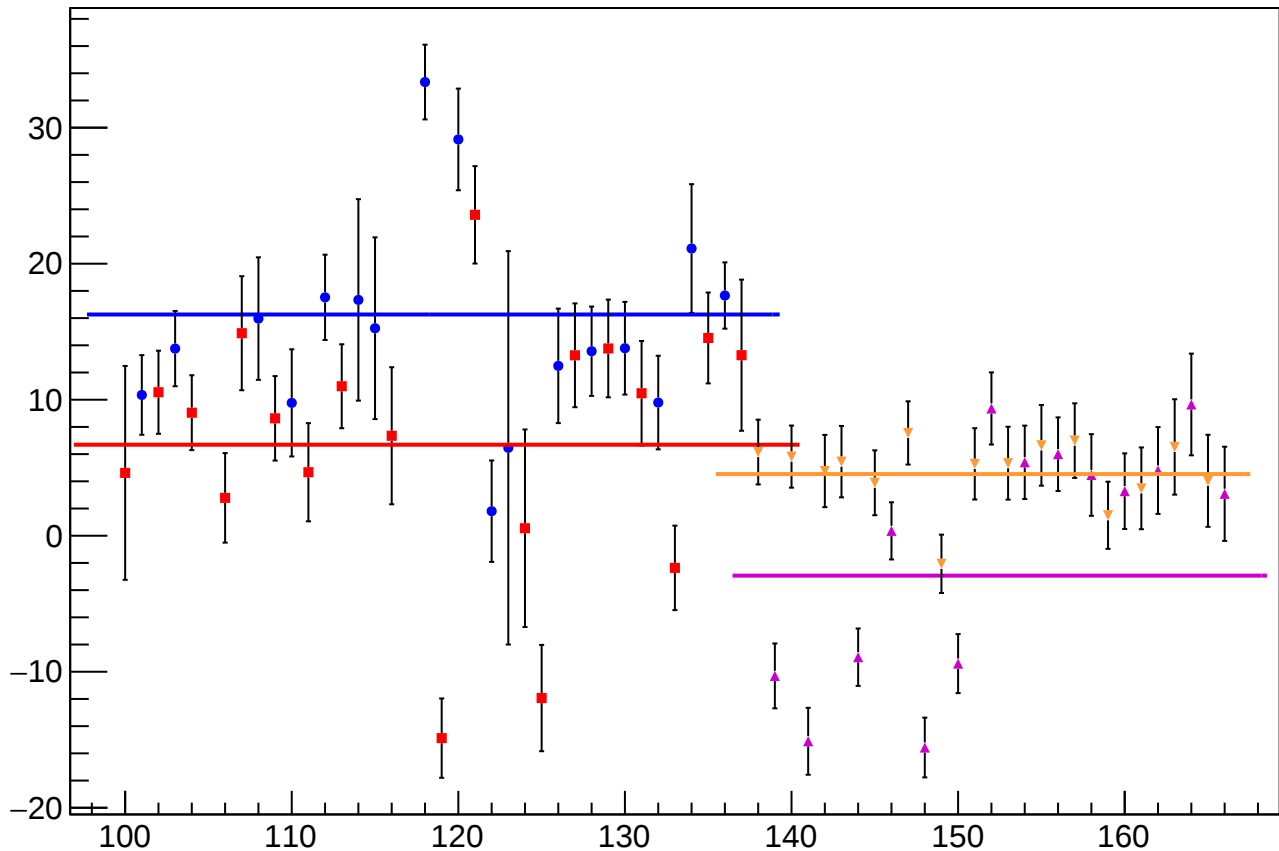
Right: 2258.395+/-0.432 χ^2/NDF : 259847.1/35

In: 2179.322+/-0.375 χ^2/NDF : 969747.4/30

Out: 2164.854+/-0.364 χ^2/NDF : 929956.7/33

All: 2171.873+/-0.261 χ^2/NDF : 1900470.9/64

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 ± 0.872 $\chi^2/\text{NDF}: 80.8/16$

Left Out: 4.533 ± 0.673 $\chi^2/\text{NDF}: 15.6/14$

Right Out: 6.690 ± 0.831 $\chi^2/\text{NDF}: 134.0/18$

Left In: -2.933 ± 0.687 $\chi^2/\text{NDF}: 159.8/13$

Left: 0.875 ± 0.481 $\chi^2/\text{NDF}: 235.7/28$

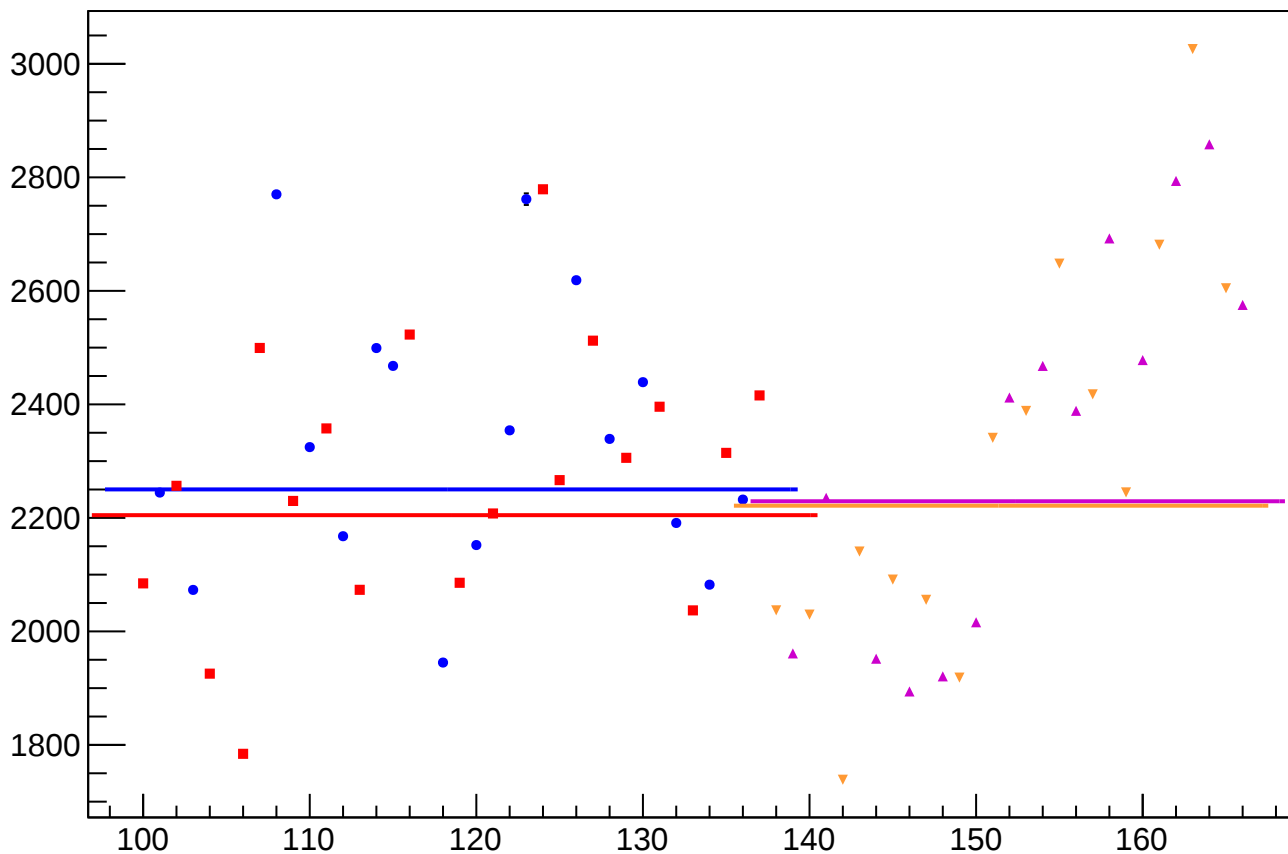
Right: 11.249 ± 0.601 $\chi^2/\text{NDF}: 278.0/35$

In: 4.419 ± 0.539 $\chi^2/\text{NDF}: 540.0/30$

Out: 5.388 ± 0.523 $\chi^2/\text{NDF}: 153.6/33$

All: 4.918 ± 0.375 $\chi^2/\text{NDF}: 695.3/64$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2250.175+/-0.616 χ^2/NDF : 97578.1/16

Left Out: 2221.480+/-0.476 χ^2/NDF : 391650.1/14

Right Out: 2204.789+/-0.587 χ^2/NDF : 126227.4/18

Left In: 2229.293+/-0.485 χ^2/NDF : 404304.1/13

Left: 2225.309+/-0.340 χ^2/NDF : 796086.3/28

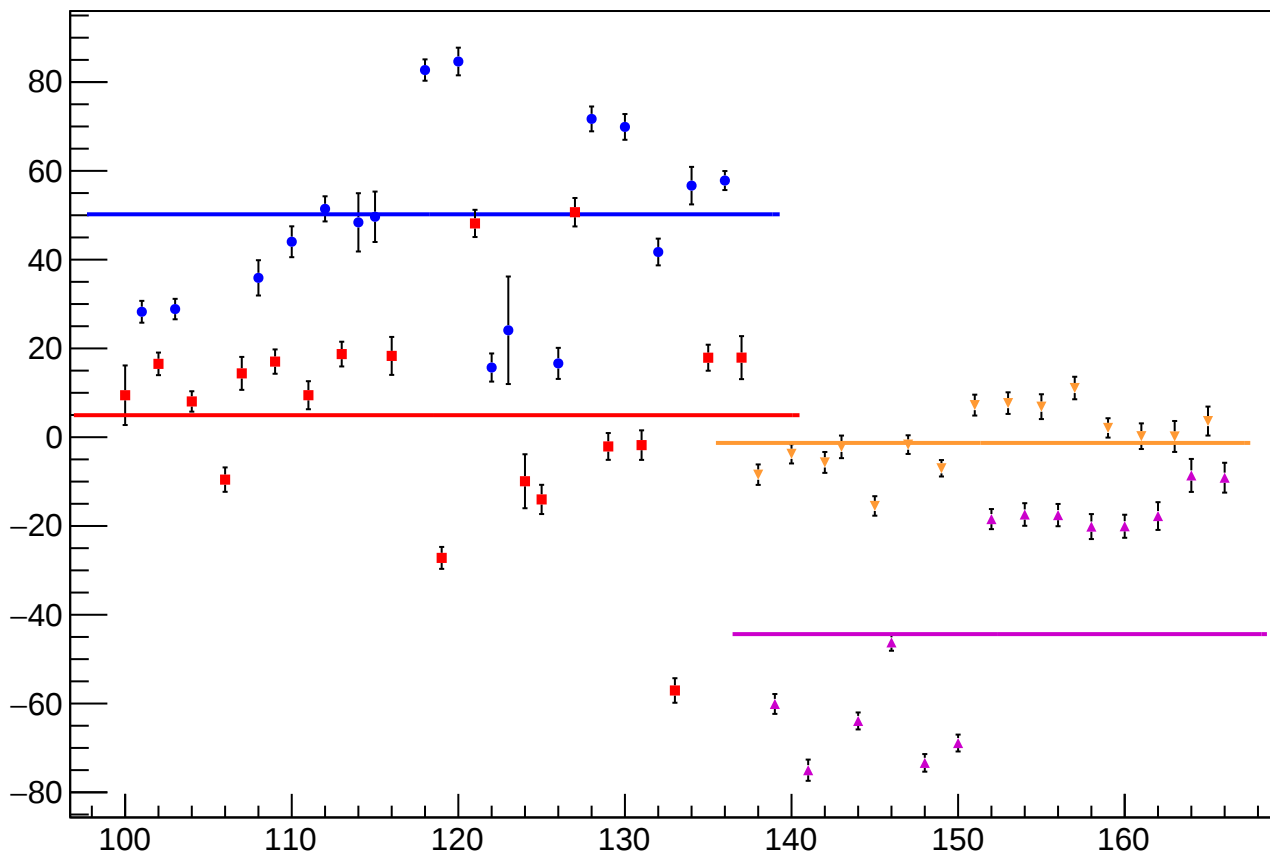
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

In: 2237.290+/-0.381 χ^2/NDF : 502590.7/30

Out: 2214.867+/-0.370 χ^2/NDF : 518365.0/33

All: 2225.732+/-0.265 χ^2/NDF : 1022737.7/64

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.215 ± 0.751 χ^2/NDF : 830.3/16

Left Out: -1.289 ± 0.620 χ^2/NDF : 130.0/14

Right Out: 4.958 ± 0.713 χ^2/NDF : 1262.6/18

Left In: -44.360 ± 0.631 χ^2/NDF : 1494.1/13

Left: -22.437 ± 0.442 χ^2/NDF : 3992.3/28

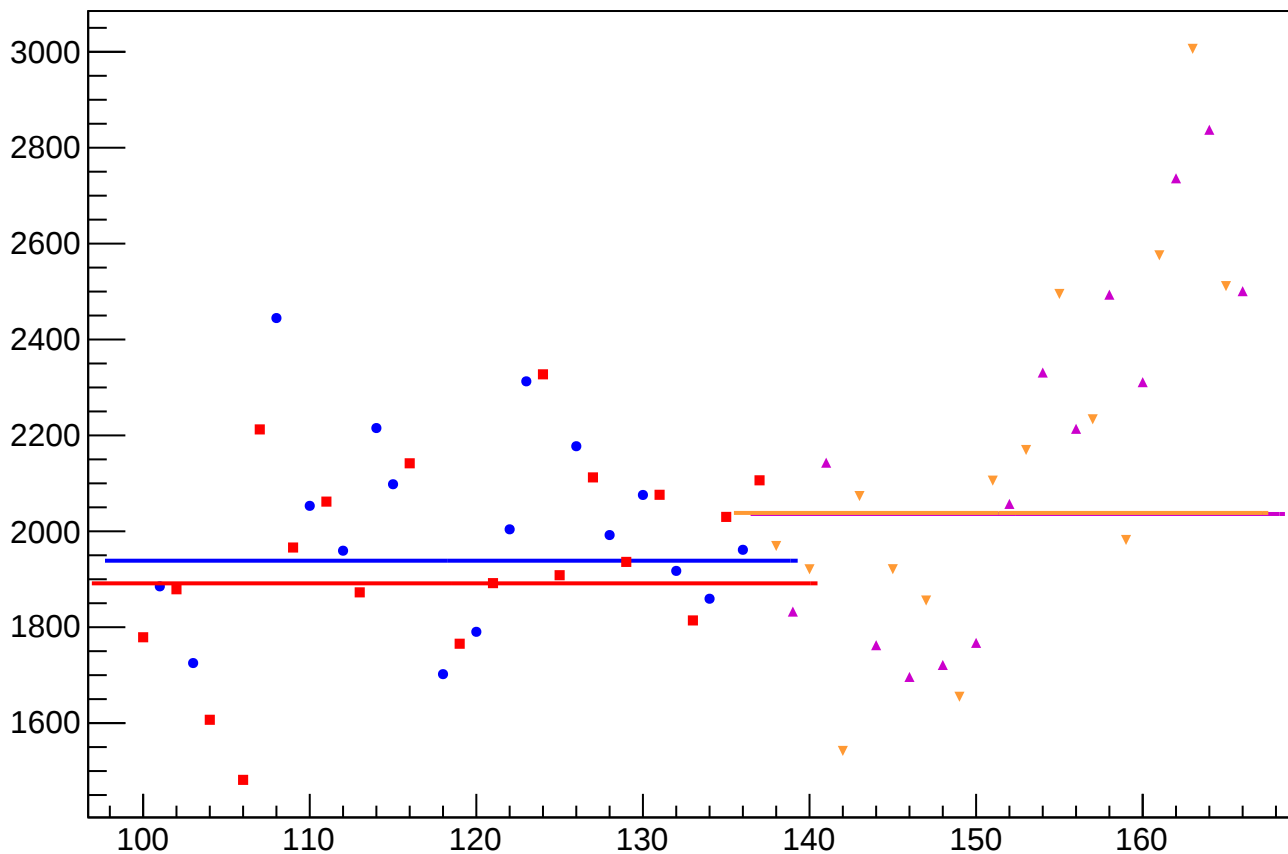
Right: 26.432 ± 0.517 χ^2/NDF : 4002.4/35

In: -5.178 ± 0.483 χ^2/NDF : 11618.4/30

Out: 1.400 ± 0.468 χ^2/NDF : 1436.3/33

All: -1.784 ± 0.336 χ^2/NDF : 13150.2/64

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: 2036.130 $\pm$ 0.447 χ^2 /NDF: 561003.2/13

Left: 2037.253 $\pm$ 0.313 χ^2 /NDF: 1103859.3/28

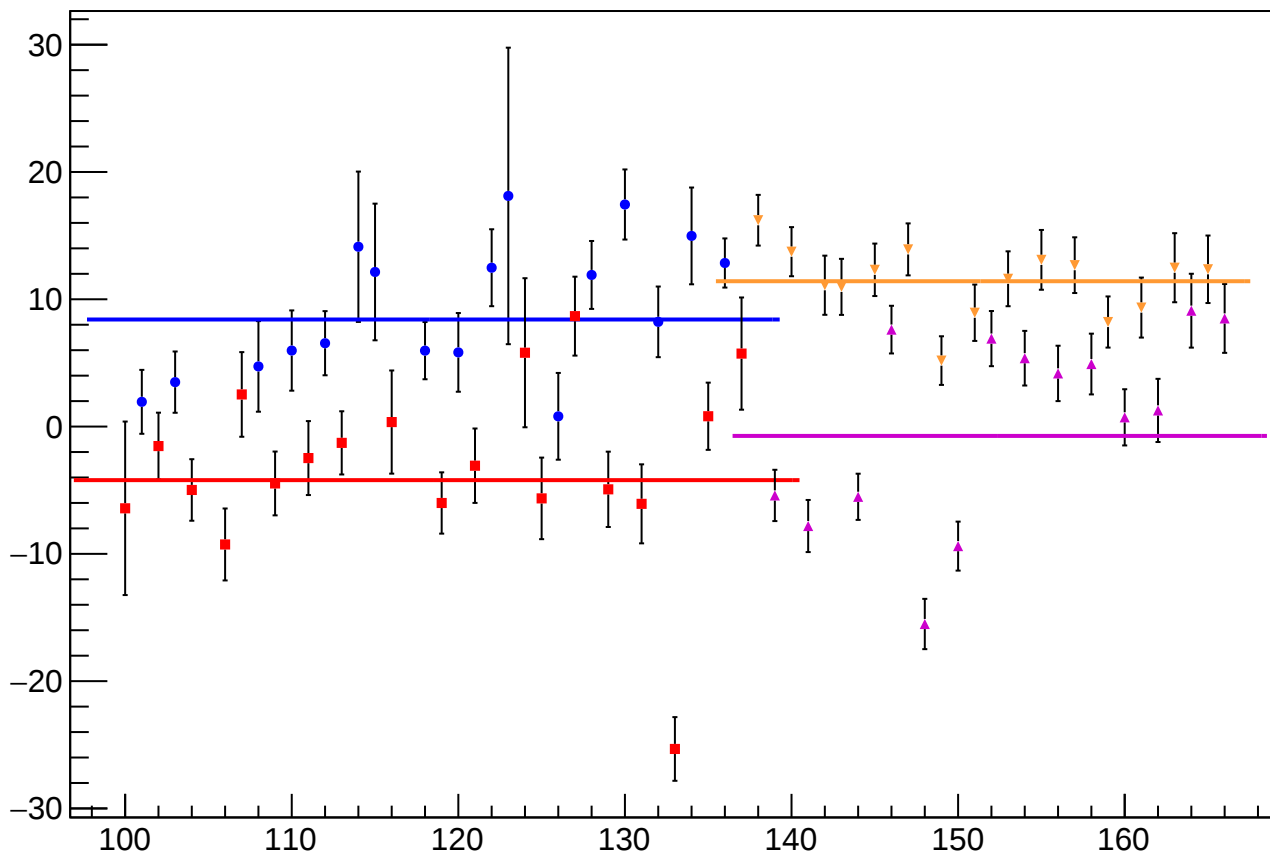
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

In: 1995.760 $\pm$ 0.342 χ^2 /NDF: 680878.1/30

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

All: 1985.109 $\pm$ 0.238 χ^2 /NDF: 1420507.0/64

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.411 ± 0.711 χ^2/NDF : 44.6/16

Left Out: 11.418 ± 0.561 χ^2/NDF : 25.3/14

Right Out: -4.208 ± 0.682 χ^2/NDF : 113.1/18

Left In: -0.734 ± 0.573 χ^2/NDF : 175.8/13

Left: 5.475 ± 0.401 χ^2/NDF : 430.6/28

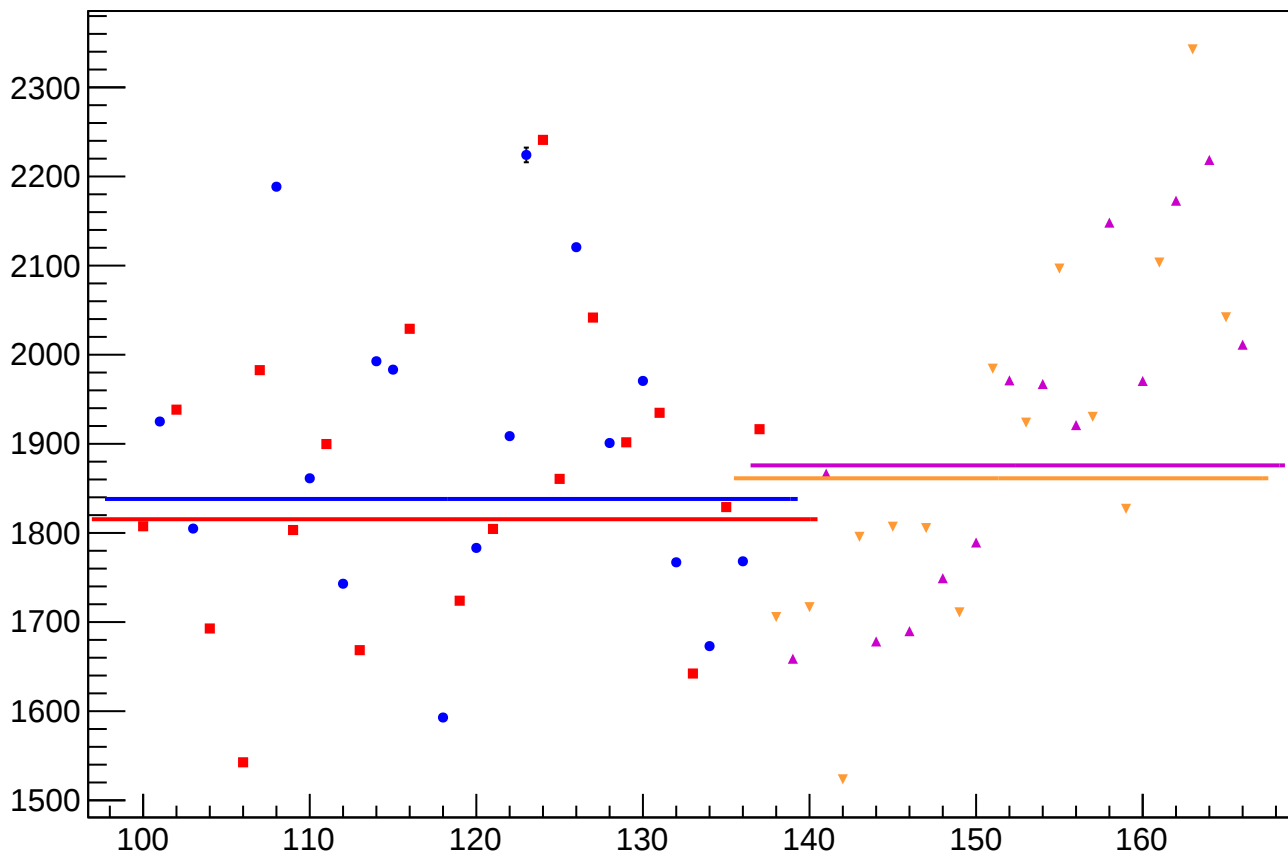
Right: 1.840 ± 0.492 χ^2/NDF : 321.6/35

In: 2.869 ± 0.446 χ^2/NDF : 320.6/30

Out: 5.115 ± 0.433 χ^2/NDF : 451.3/33

All: 4.025 ± 0.311 χ^2/NDF : 784.9/64

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: 1875.811 $\pm$ 0.406 χ^2 /NDF: 178626.2/13

Left: 1868.424 $\pm$ 0.284 χ^2 /NDF: 385879.3/28

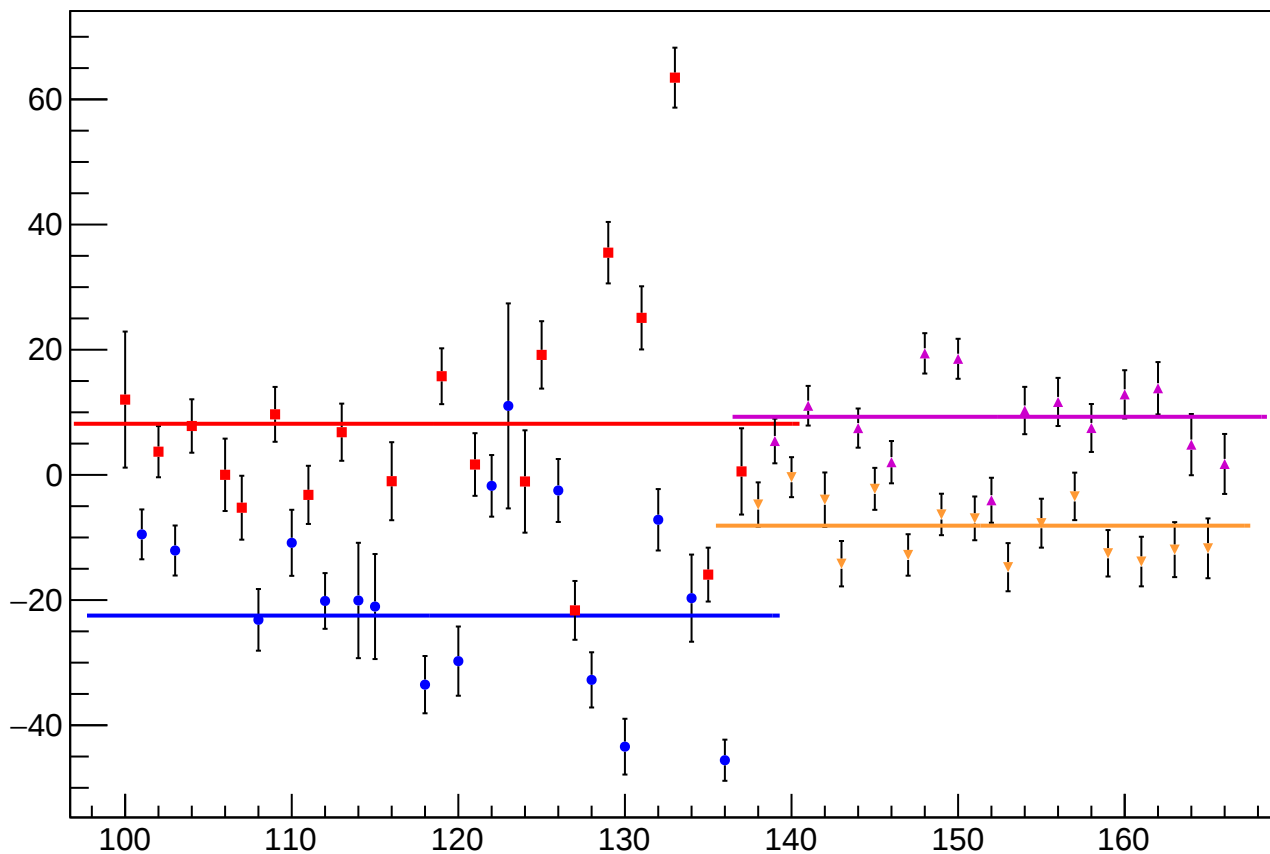
Right: 1826.303 $\pm$ 0.348 χ^2 /NDF: 171362.3/35

In: 1860.970 $\pm$ 0.316 χ^2 /NDF: 264904.5/30

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

All: 1851.625 $\pm$ 0.220 χ^2 /NDF: 566039.5/64

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.477 $\pm$ 1.195 χ^2 /NDF: 154.7/16

Left Out: -8.111 $\pm$ 0.956 χ^2 /NDF: 25.3/14

Right Out: 8.169 $\pm$ 1.157 χ^2 /NDF: 276.9/18

Left In: 9.284 $\pm$ 0.974 χ^2 /NDF: 44.5/13

Left: 0.428 $\pm$ 0.682 χ^2 /NDF: 232.4/28

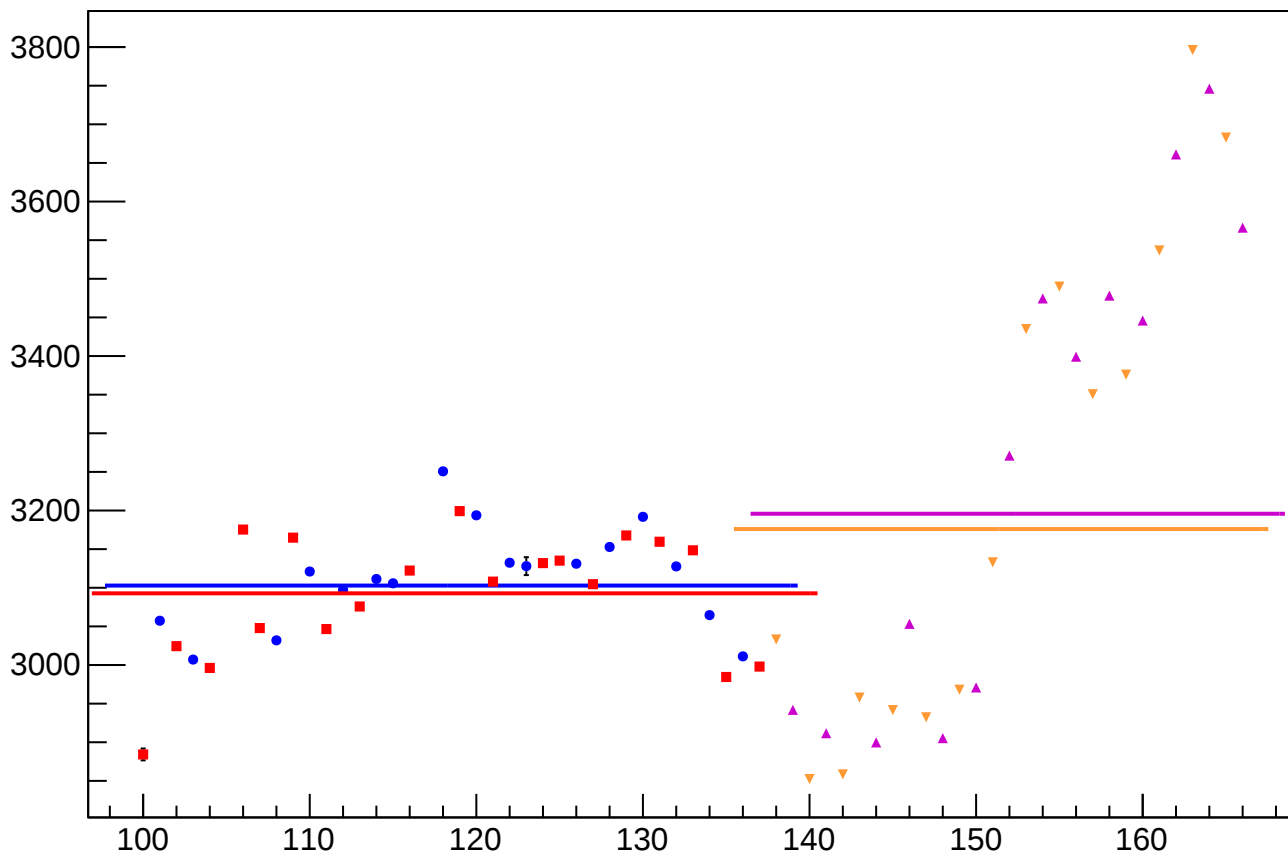
Right: -6.656 $\pm$ 0.831 χ^2 /NDF: 771.3/35

In: -3.391 $\pm$ 0.755 χ^2 /NDF: 623.9/30

Out: -1.502 $\pm$ 0.737 χ^2 /NDF: 420.0/33

All: -2.424 $\pm$ 0.527 χ^2 /NDF: 1047.1/64

diff_bpm0l01X_rms vs Slug, Sign Corrected

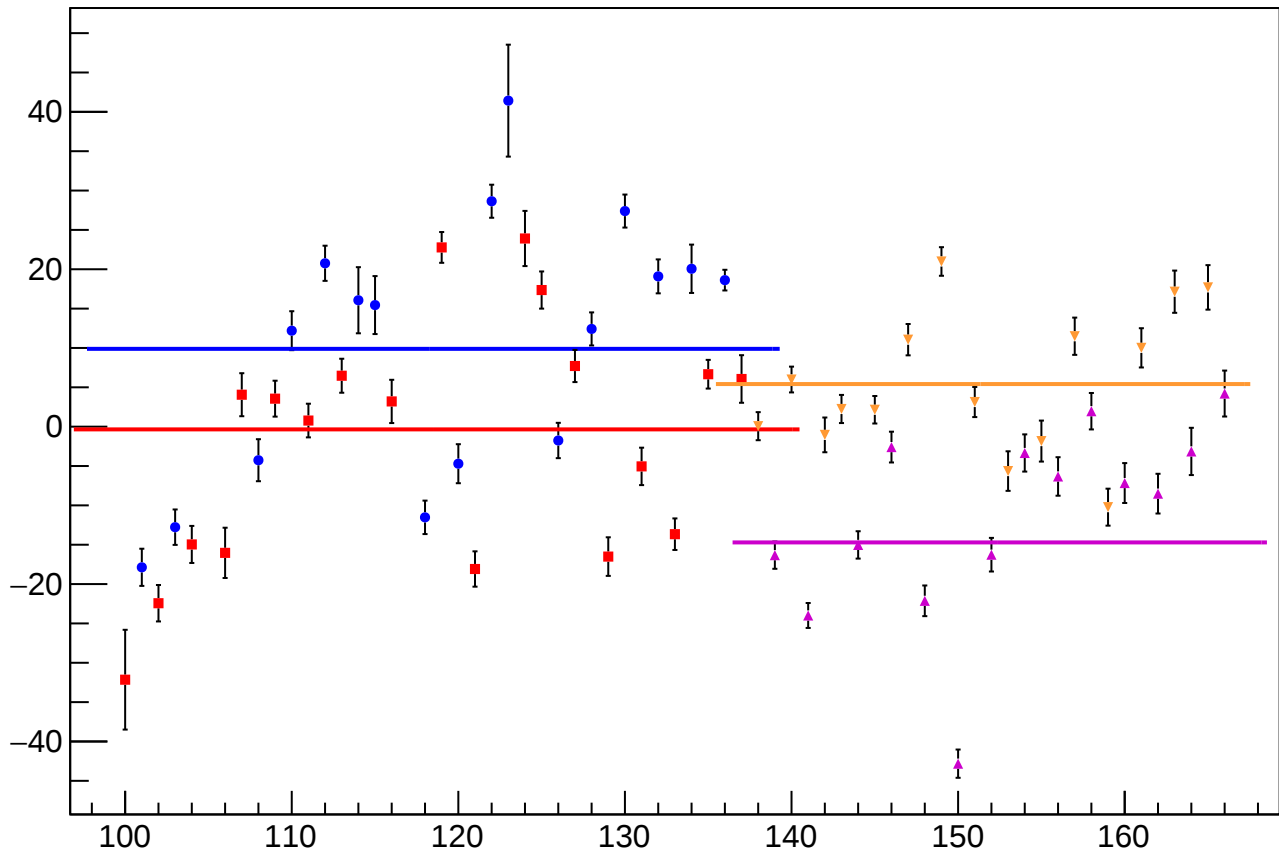


Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16
 Left Out: 3176.024 $\pm$ 0.676 χ^2 /NDF:181368.6/14
 Right Out: 3092.795 $\pm$ 0.818 χ^2 /NDF: 7763.4/18
 Left In: 3195.823 $\pm$ 0.688 χ^2 /NDF:172485.7/13

Left: 3185.743 $\pm$ 0.482 χ^2 /NDF: 354275.4/28
 Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35
 In: 3158.720 $\pm$ 0.534 χ^2 /NDF:187109.7/30
 Out: 3142.238 $\pm$ 0.521 χ^2 /NDF:195285.2/33

All: 3150.281 $\pm$ 0.373 χ^2 /NDF: 382883.3/64

diff_bpm0l01Y_mean vs Slug, Sign Corrected

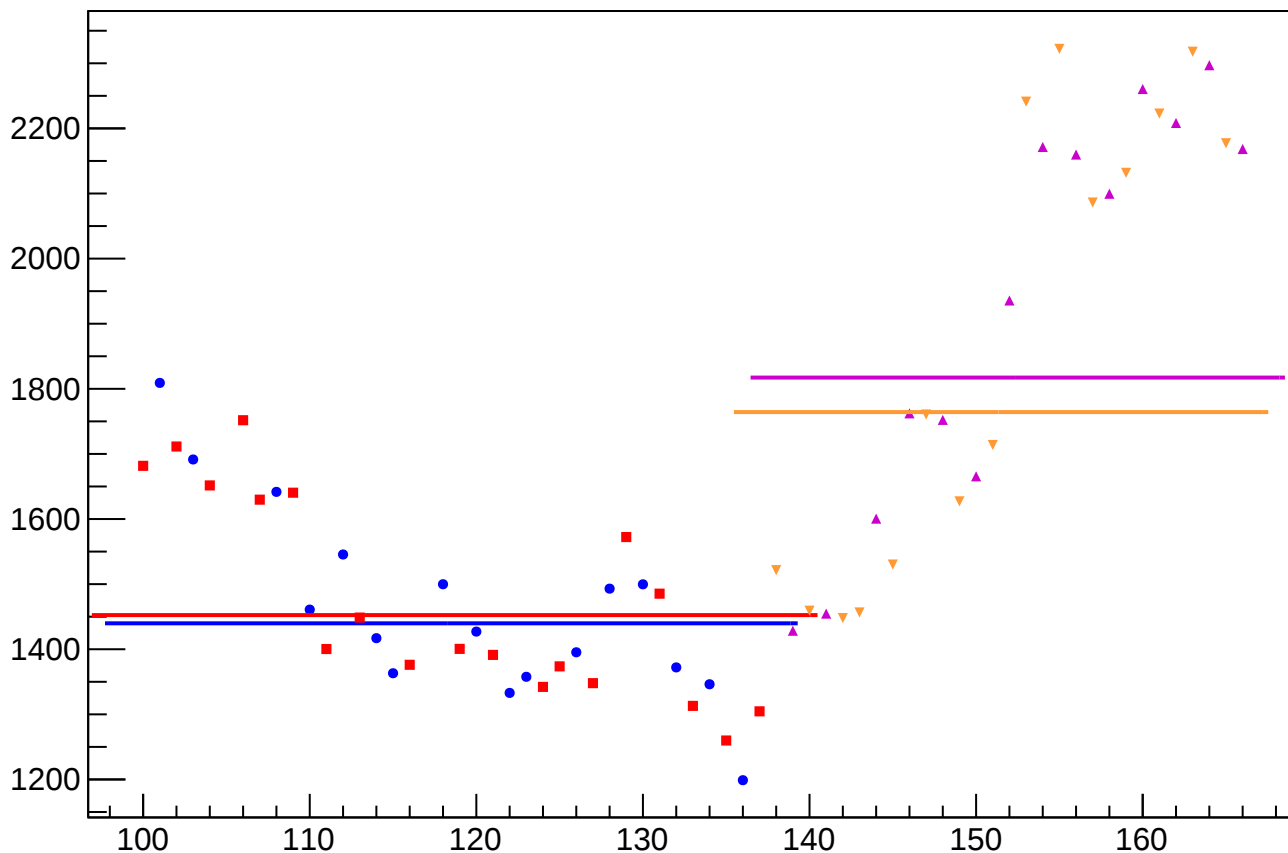


Right In: 9.887 $\pm$ 0.559 χ^2/NDF : 703.6/16
 Left Out: 5.414 $\pm$ 0.538 χ^2/NDF : 226.7/14
 Right Out: -0.346 $\pm$ 0.547 χ^2/NDF : 628.9/18
 Left In: -14.708 $\pm$ 0.560 χ^2/NDF : 492.2/13

Left: -4.251 $\pm$ 0.388 χ^2/NDF : 1390.2/28
 Right: 4.654 $\pm$ 0.391 χ^2/NDF : 1503.6/35
 In: -2.402 $\pm$ 0.396 χ^2/NDF : 2161.4/30
 Out: 2.580 $\pm$ 0.384 χ^2/NDF : 911.9/33

All: 0.167 $\pm$ 0.275 χ^2/NDF : 3155.0/64

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: 1817.274 $\pm$ 0.396 χ^2 /NDF: 563808.8/13

Left: 1789.726 $\pm$ 0.274 χ^2 /NDF: 1273767.3/28

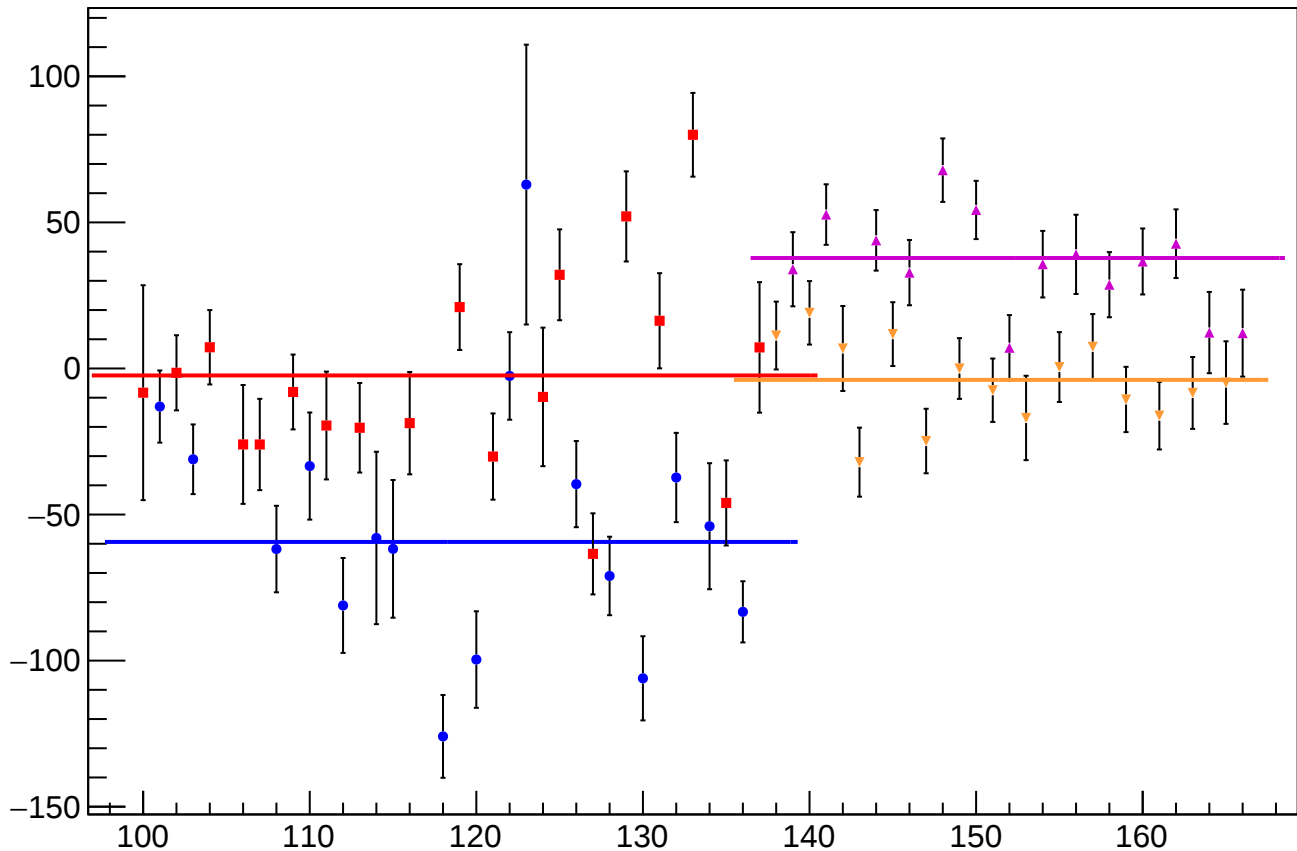
Right: 1446.283 $\pm$ 0.277 χ^2 /NDF: 311864.1/35

In: 1628.417 $\pm$ 0.280 χ^2 /NDF: 1191447.8/30

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

All: 1619.351 $\pm$ 0.195 χ^2 /NDF: 2362892.4/64

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: 37.816 ± 3.081 χ^2/NDF : 27.9/13

Left: 16.609 ± 2.160 χ^2/NDF : 142.9/28

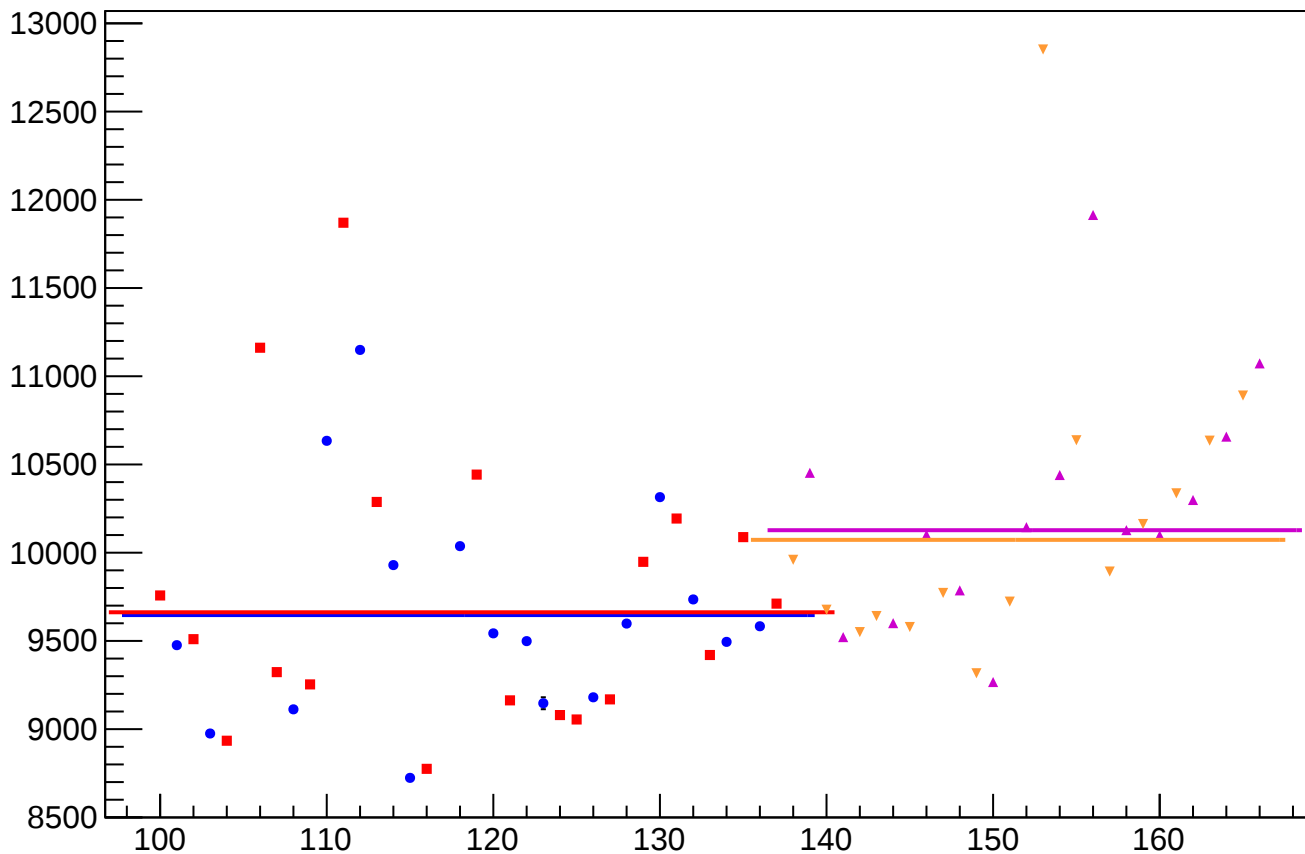
Right: -30.113 ± 2.601 χ^2/NDF : 306.8/35

In: -1.618 ± 2.375 χ^2/NDF : 524.5/30

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

All: -2.464 ± 1.662 χ^2/NDF : 640.7/64

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: 10127.495+/-2.179 χ^2/NDF : 77864.8/13

Left: 10099.675+/-1.528 χ^2/NDF : 195536.6/28

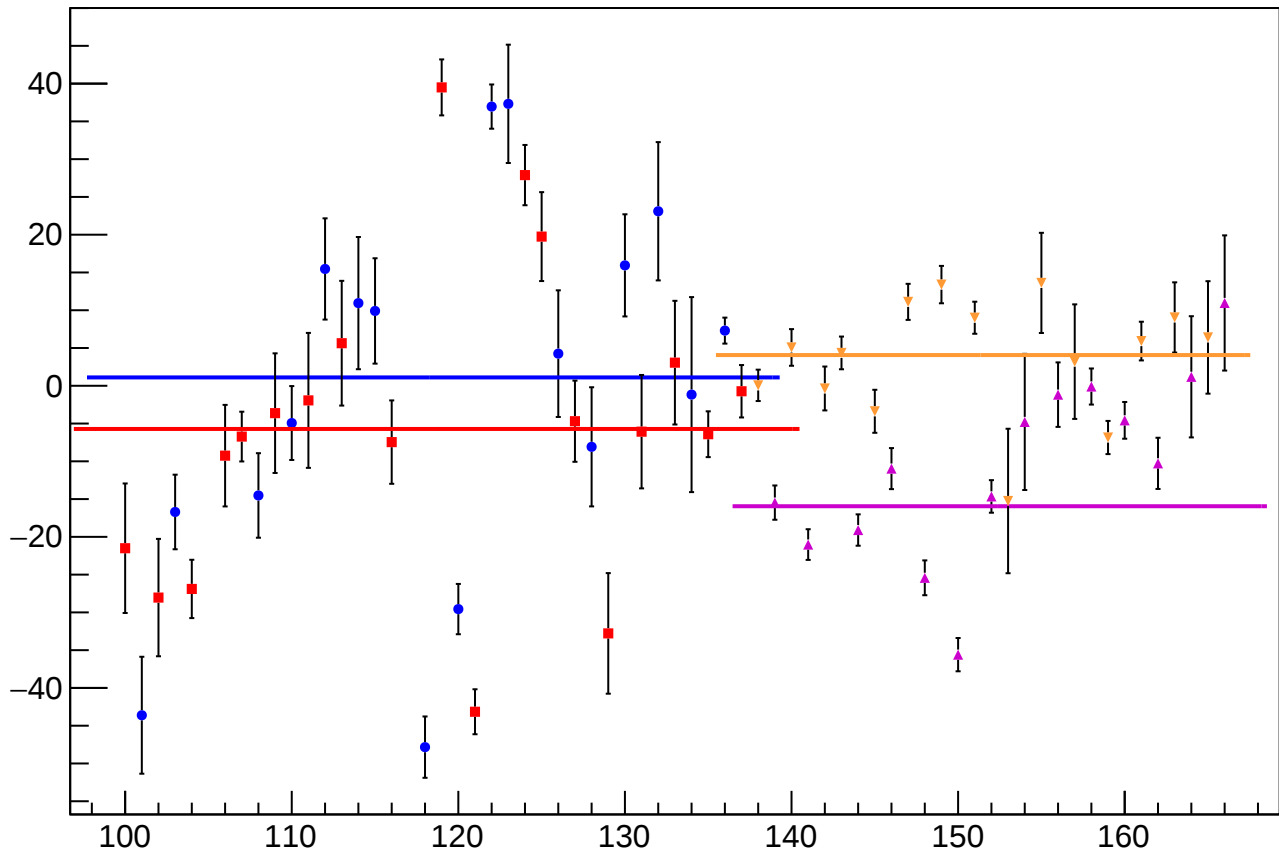
Right: 9654.635+/-1.839 χ^2/NDF : 121662.9/35

In: 9932.330+/-1.679 χ^2/NDF : 141703.1/30

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

All: 9917.998+/-1.175 χ^2/NDF : 351851.8/64

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 ± 1.066 $\chi^2/\text{NDF}: 489.7/16$

Left Out: 4.066 ± 0.727 $\chi^2/\text{NDF}: 74.1/14$

Right Out: -5.716 ± 1.091 $\chi^2/\text{NDF}: 456.0/18$

Left In: -15.947 ± 0.718 $\chi^2/\text{NDF}: 204.5/13$

Left: -6.063 ± 0.511 $\chi^2/\text{NDF}: 662.3/28$

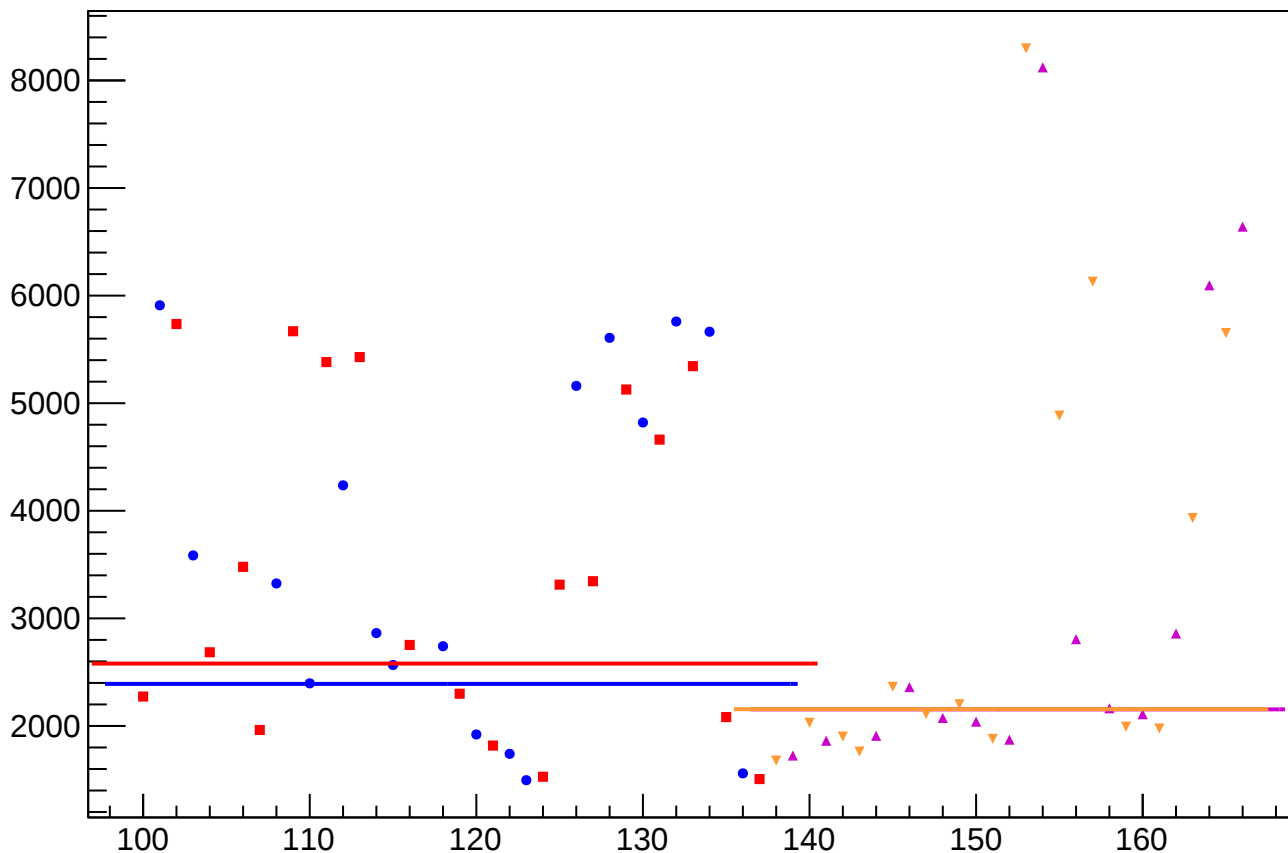
Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$

In: -10.629 ± 0.596 $\chi^2/\text{NDF}: 870.1/30$

Out: 1.060 ± 0.605 $\chi^2/\text{NDF}: 585.7/33$

All: -4.875 ± 0.424 $\chi^2/\text{NDF}: 1645.4/64$

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: 2154.356 $\pm$ 0.508 χ^2 /NDF: 2190339.8/13

Left: 2155.174 $\pm$ 0.361 χ^2 /NDF: 4896420.4/28

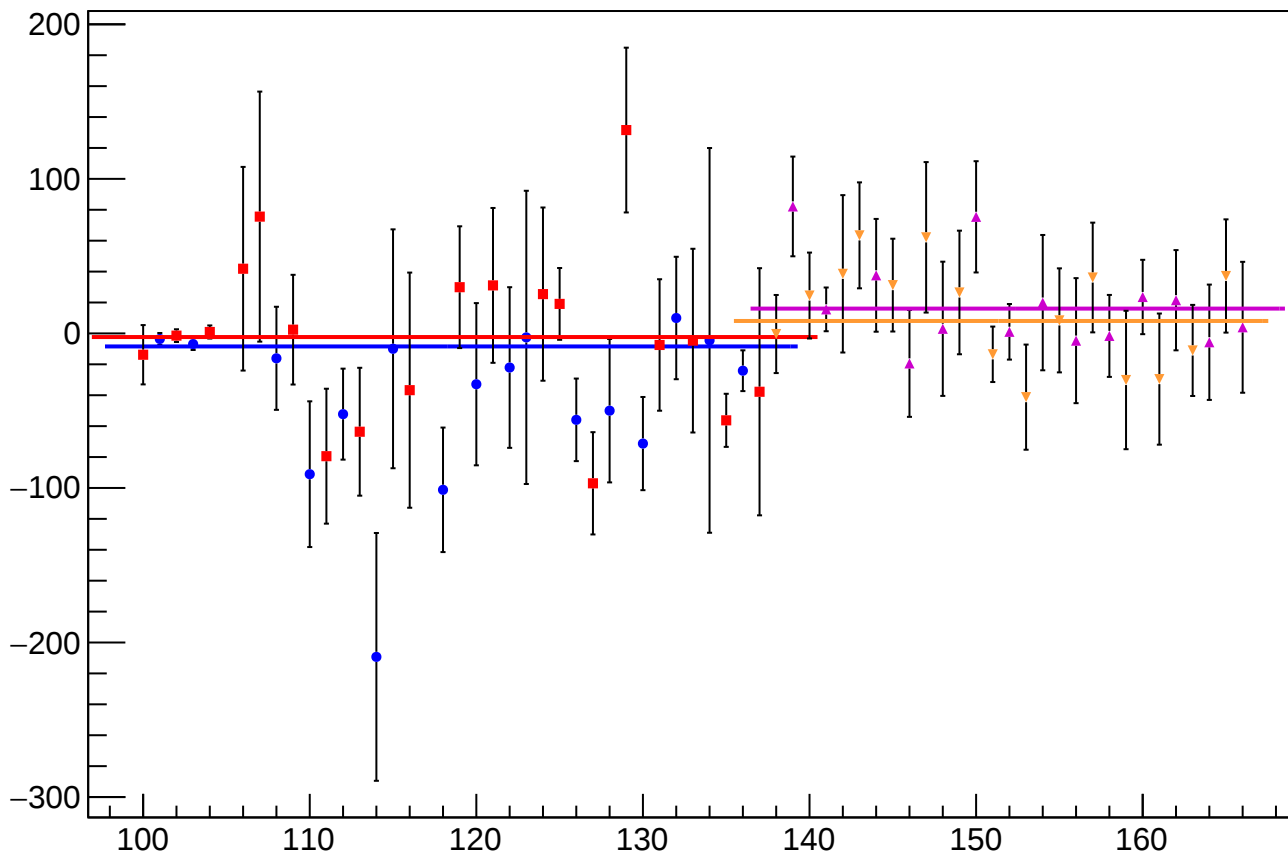
Right: 2483.443 $\pm$ 0.539 χ^2 /NDF: 4996468.7/35

In: 2228.201 $\pm$ 0.421 χ^2 /NDF: 4858747.6/30

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

All: 2256.809 $\pm$ 0.300 χ^2 /NDF: 10148696.5/66

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: 16.052 $\pm$ 7.363 χ^2/NDF :10.4/13

Left: 12.482 $\pm$ 5.480 χ^2/NDF : 23.1/28

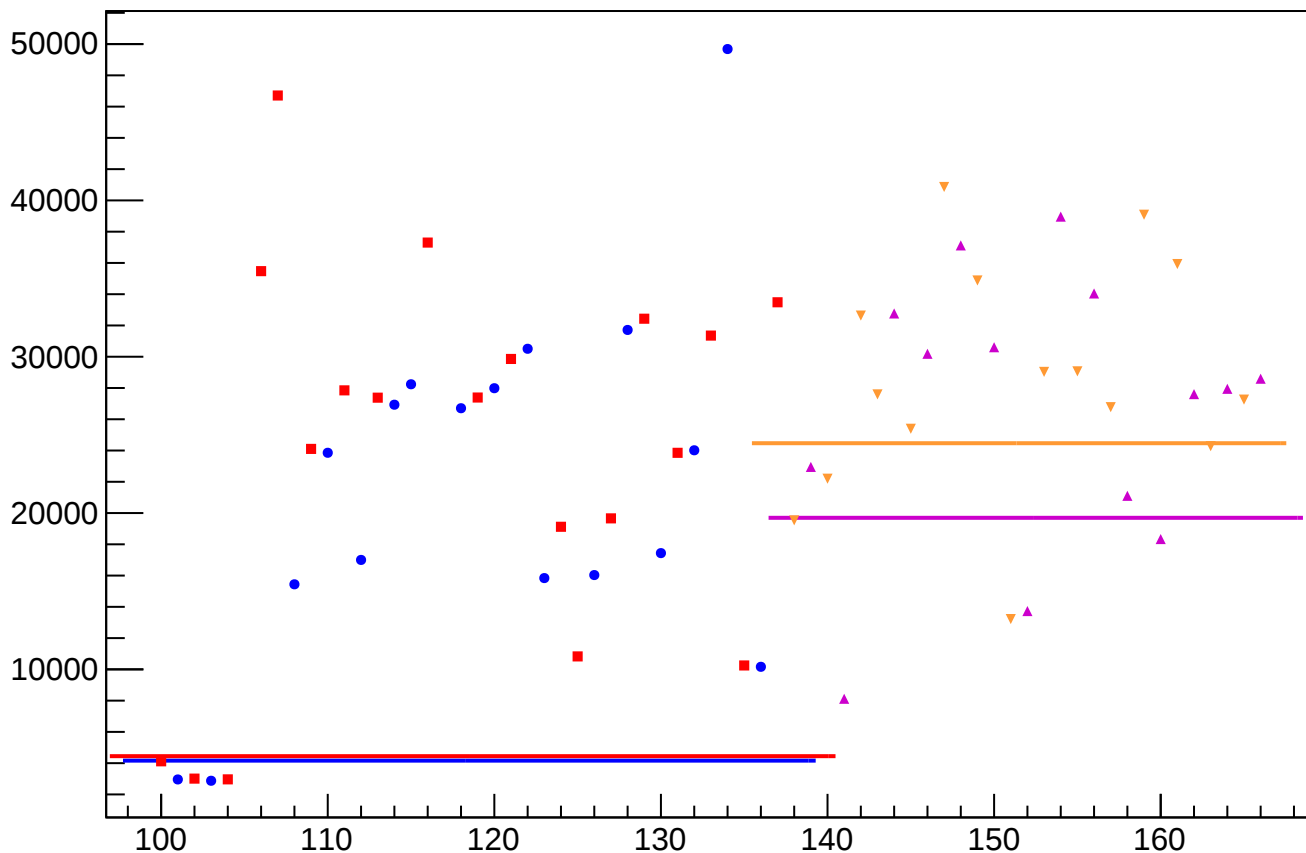
Right: -5.615 $\pm$ 1.896 χ^2/NDF : 66.1/35

In: -5.739 $\pm$ 2.441 χ^2/NDF :49.1/30

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

All: -3.680 $\pm$ 1.792 χ^2/NDF : 99.0/64

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: 19695.604+/-5.206 χ^2/NDF : 3482632.1/13

Left: 21823.870+/-3.875 χ^2/NDF : 5617932.6/28

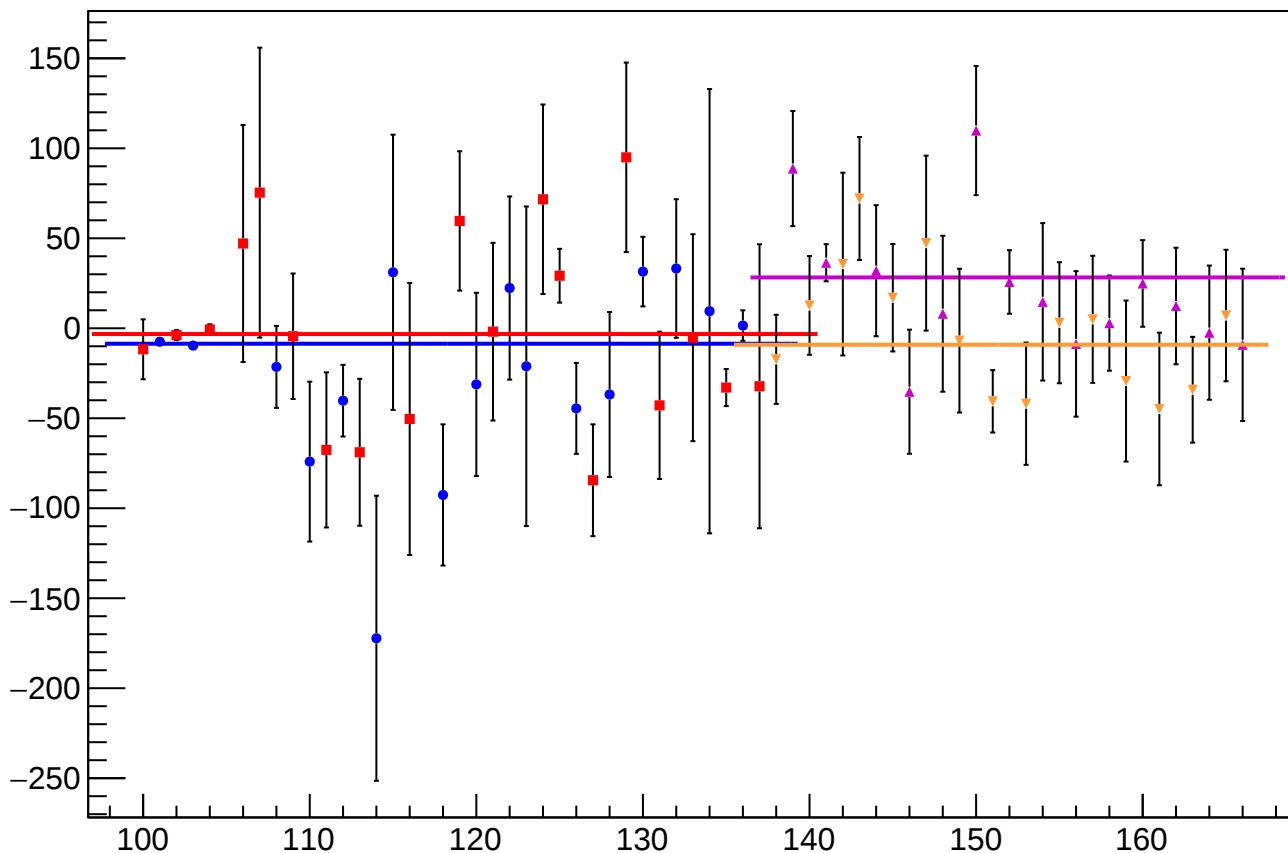
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

In: 5869.851+/-1.726 χ^2/NDF : 17396393.7/30

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

All: 6168.516+/-1.267 χ^2/NDF : 37323051.0/66

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: 28.253 $\pm$ 6.591 χ^2/NDF : 16.6/13

Left: 13.368 $\pm$ 5.114 χ^2/NDF : 45.1/28

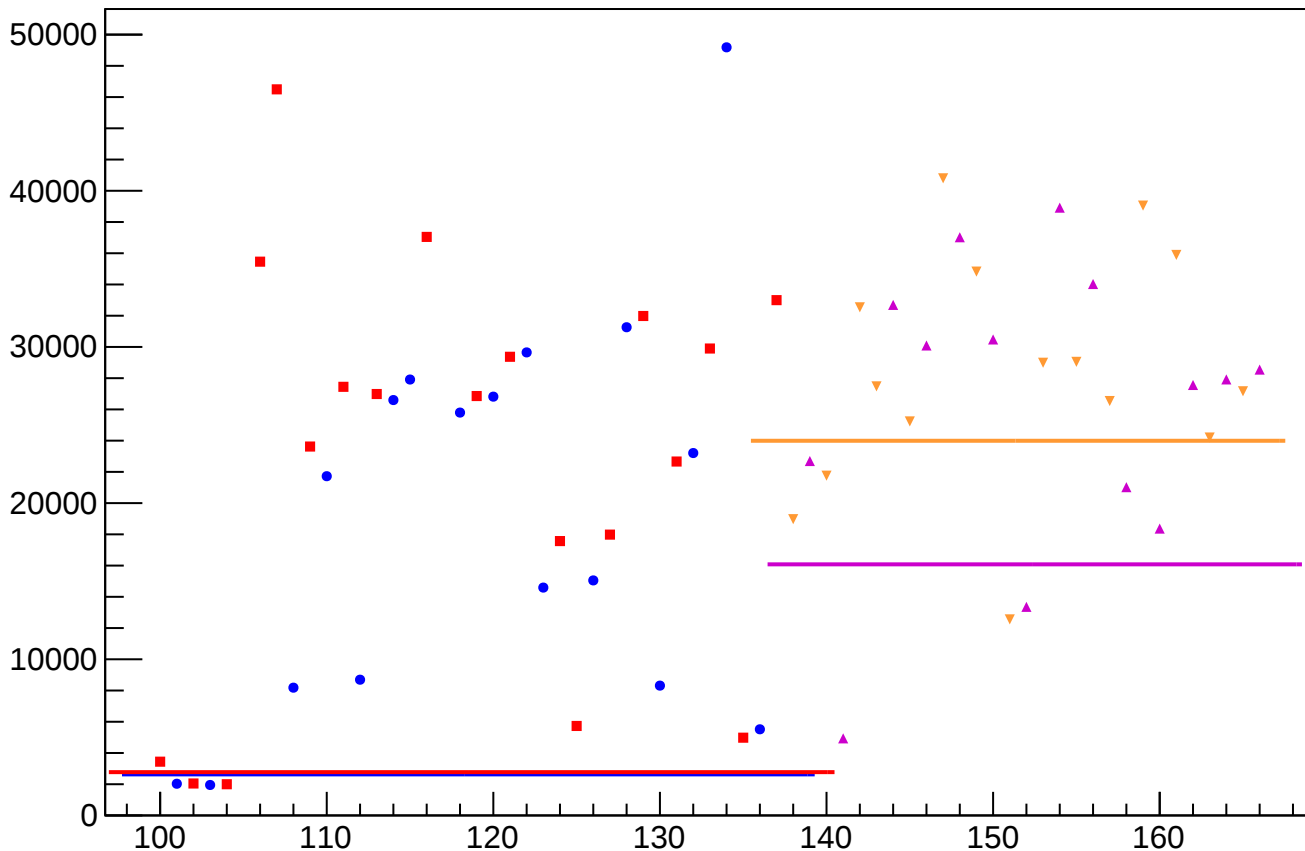
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -6.088 $\pm$ 1.716 χ^2/NDF : 70.1/30

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

All: -4.910 $\pm$ 1.265 χ^2/NDF : 124.2/64

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: 16079.240 ± 4.661 $\chi^2/\text{NDF}: 5659730.2/13$

Left: 19229.011 ± 3.616 $\chi^2/\text{NDF}: 8737988.3/28$

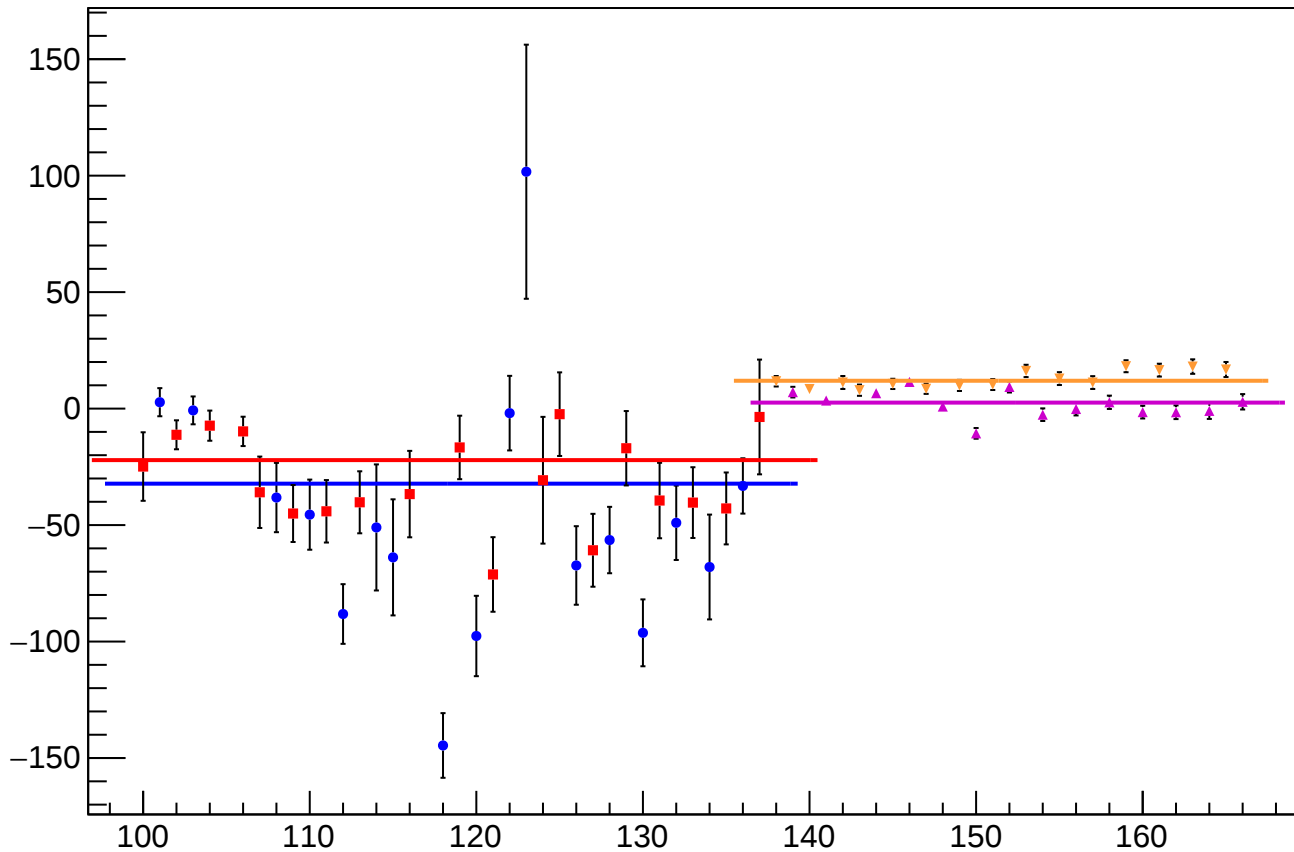
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3542.557 ± 1.214 $\chi^2/\text{NDF}: 19010592.1/30$

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

All: 3707.445 ± 0.894 $\chi^2/\text{NDF}: 41793683.7/66$

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: 2.573 ± 0.664 χ^2/NDF : 77.1/13

Left: 7.372 ± 0.464 χ^2/NDF : 206.3/28

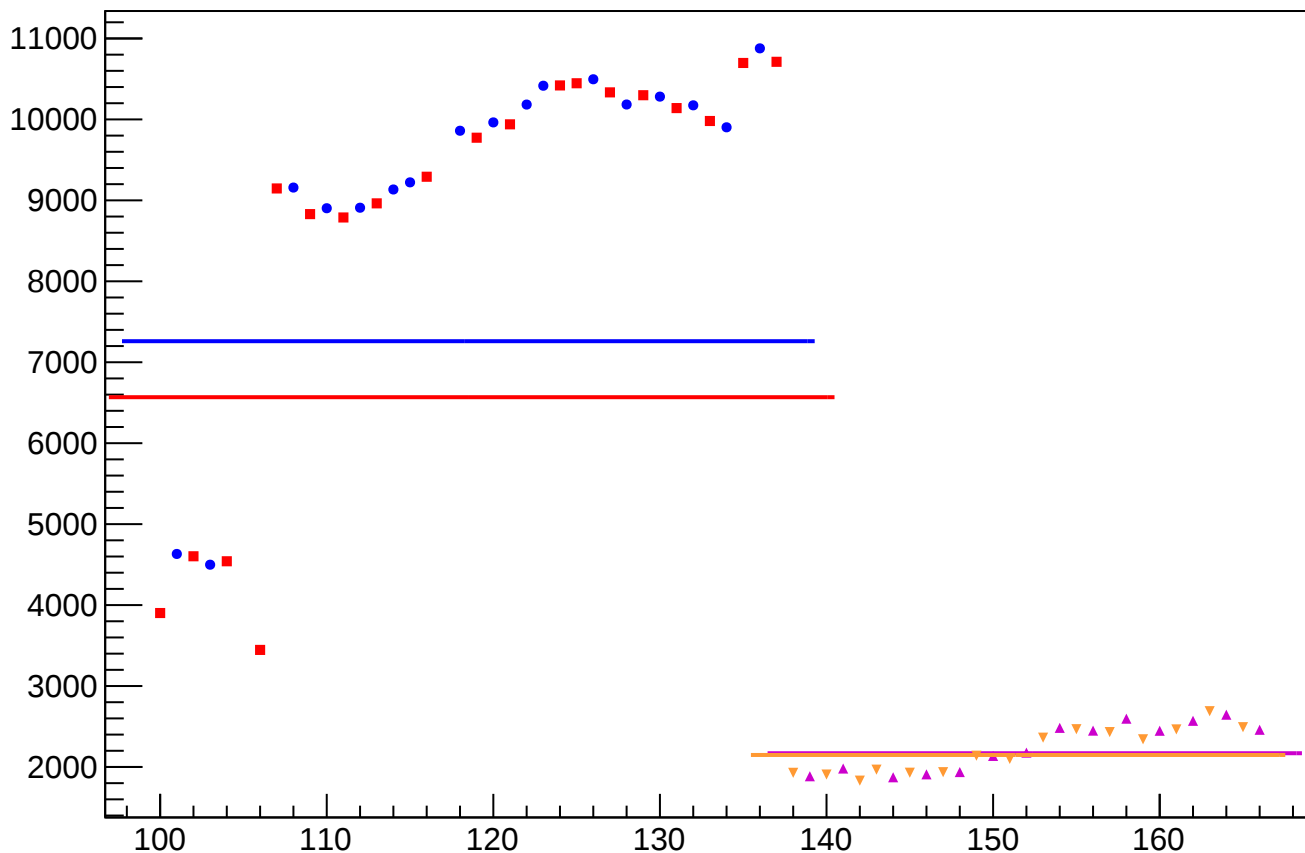
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 0.928 ± 0.648 χ^2/NDF : 410.6/30

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

All: 5.618 ± 0.452 χ^2/NDF : 736.9/64

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7260.081+/-2.108 χ^2/NDF : 1636373.2/16

Left Out: 2148.299+/-0.459 χ^2/NDF : 302607.5/14

Right Out: 6568.180+/-1.887 χ^2/NDF : 2196546.0/18

Left In: 2169.737+/-0.470 χ^2/NDF : 346510.8/13

Left: 2158.767+/-0.328 χ^2/NDF : 650184.7/28

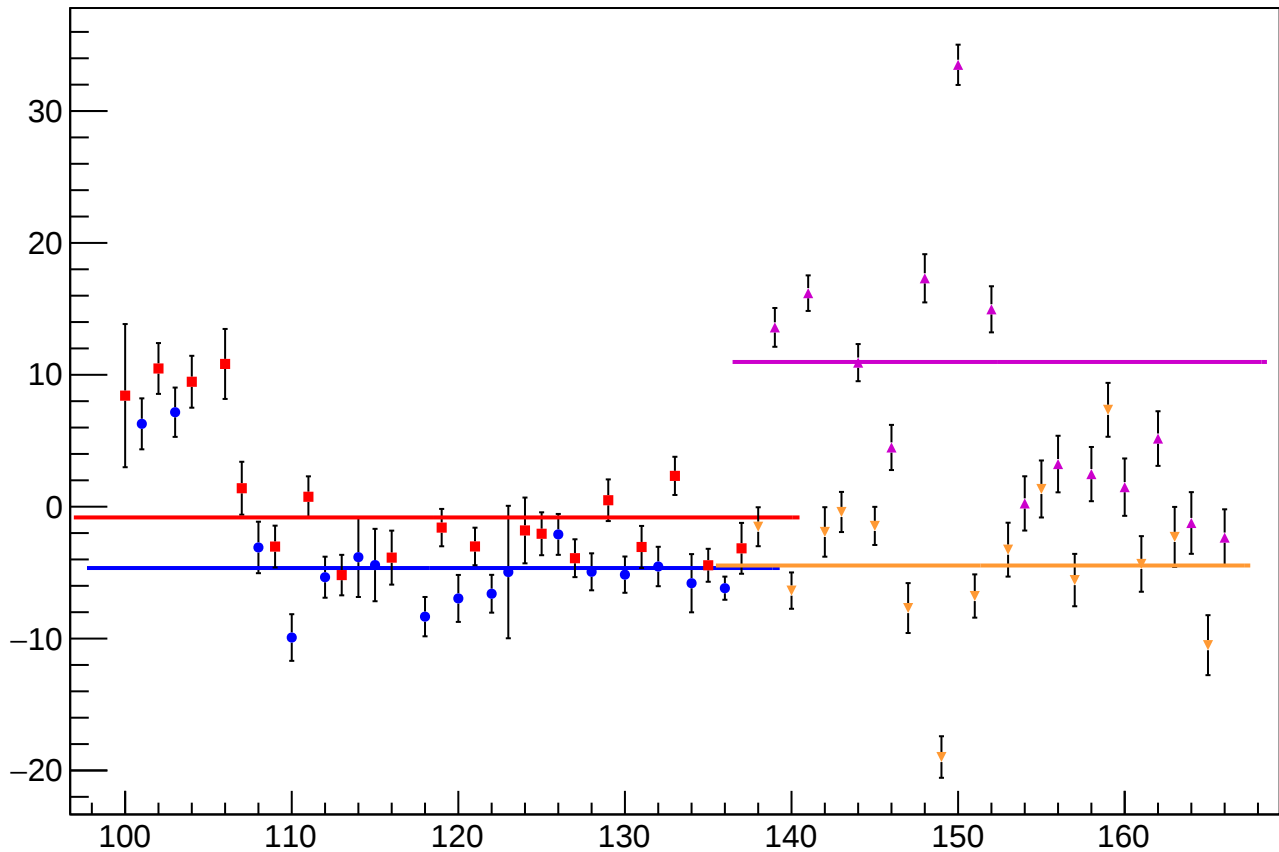
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

In: 2410.373+/-0.458 χ^2/NDF : 7537482.6/30

Out: 2394.790+/-0.446 χ^2/NDF : 7676806.4/33

All: 2402.364+/-0.320 χ^2/NDF : 15214883.1/6

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: 10.974 ± 0.474 $\chi^2/\text{NDF}: 417.4/13$

Left: 2.970 ± 0.329 $\chi^2/\text{NDF}: 1125.0/28$

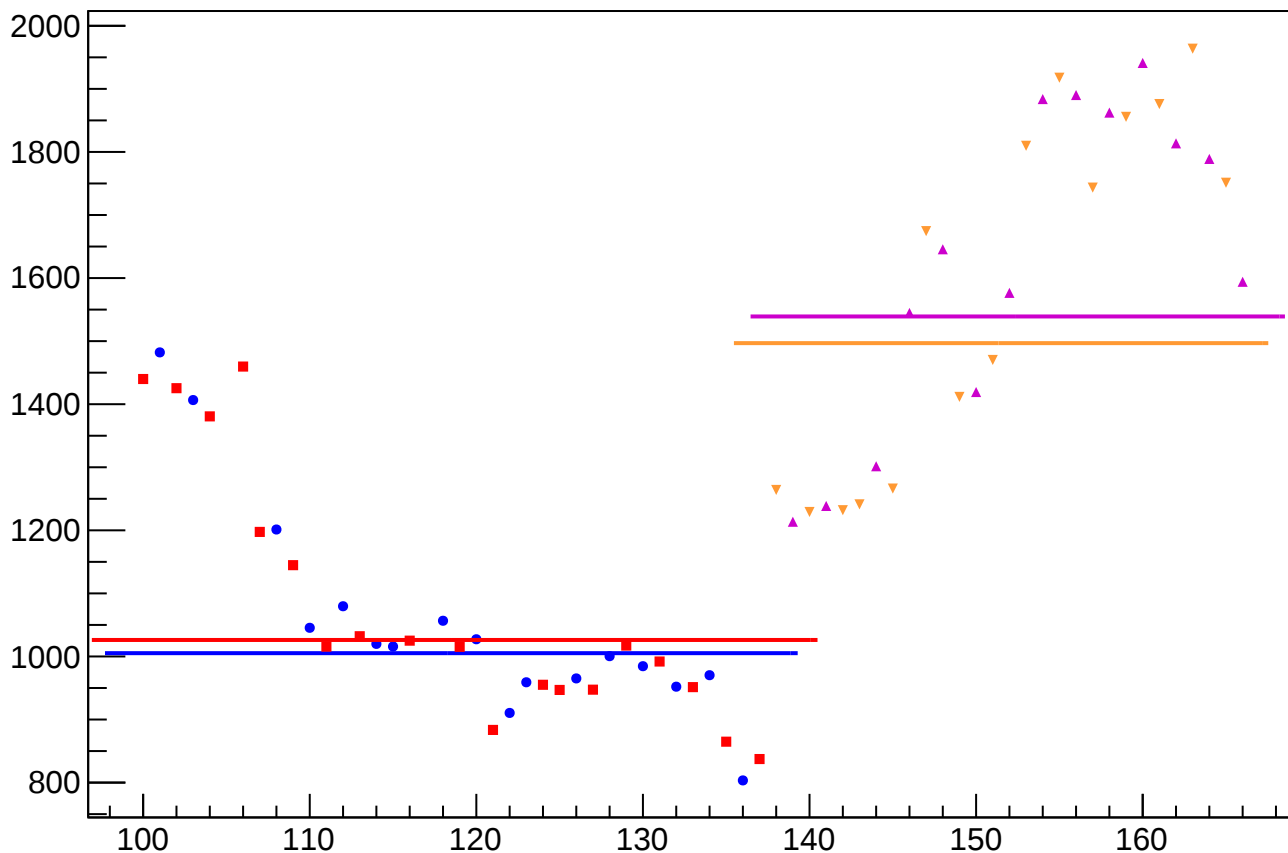
Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$

In: 1.705 ± 0.302 $\chi^2/\text{NDF}: 1159.1/30$

Out: -2.344 ± 0.296 $\chi^2/\text{NDF}: 318.8/33$

All: -0.363 ± 0.212 $\chi^2/\text{NDF}: 1569.5/64$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1005.227 ± 0.278 $\chi^2/\text{NDF}: 361954.2/16$

Left Out: 1496.827 ± 0.323 $\chi^2/\text{NDF}: 685526.7/14$

Right Out: 1026.158 ± 0.275 $\chi^2/\text{NDF}: 333119.0/18$

Left In: 1539.123 ± 0.335 $\chi^2/\text{NDF}: 560921.0/13$

Left: 1517.189 ± 0.233 $\chi^2/\text{NDF}: 1254699.8/28$

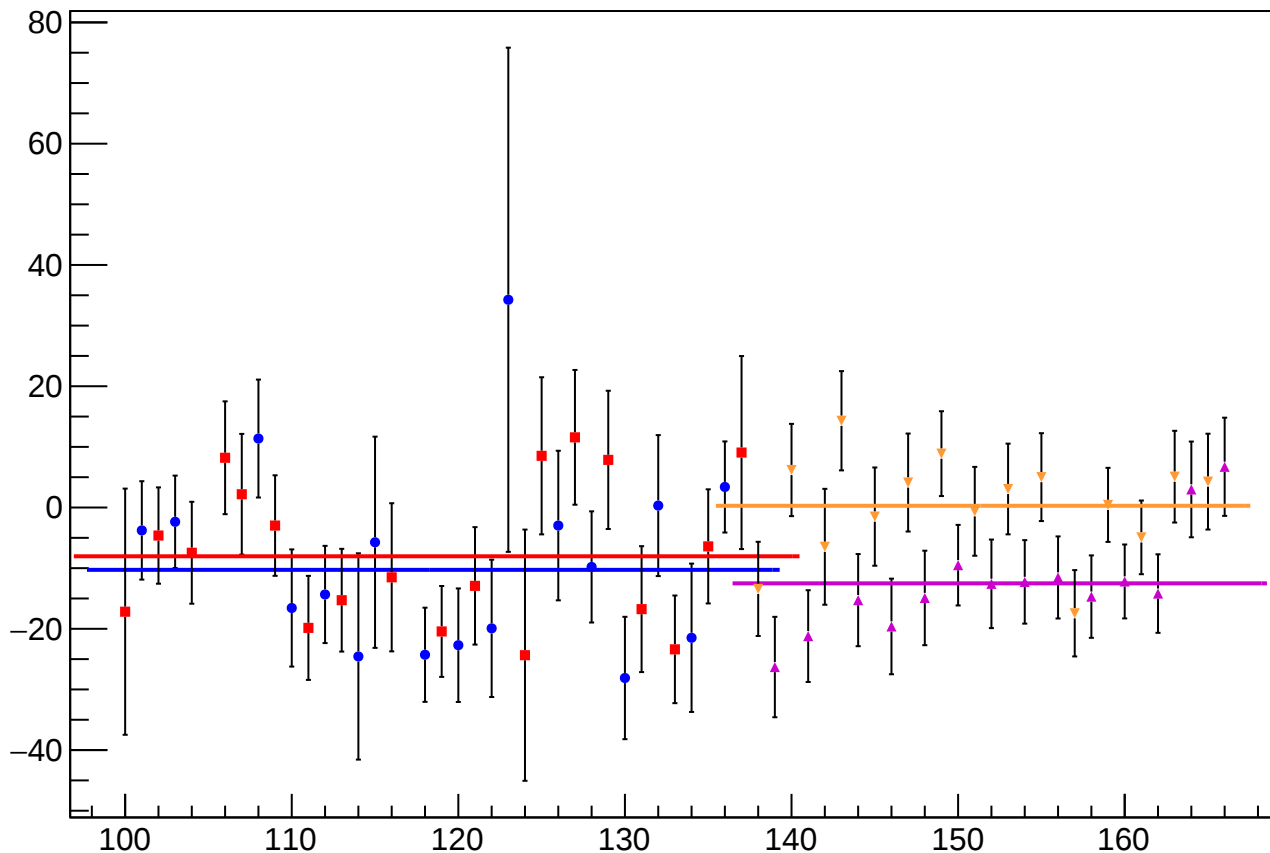
Right: 1015.803 ± 0.195 $\chi^2/\text{NDF}: 697945.4/35$

In: 1222.389 ± 0.214 $\chi^2/\text{NDF}: 2427094.9/30$

Out: 1223.678 ± 0.209 $\chi^2/\text{NDF}: 2250541.8/33$

All: 1223.047 ± 0.150 $\chi^2/\text{NDF}: 4677655.3/64$

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.277 $\pm$ 2.408 χ^2/NDF : 23.5/16

Left Out: 0.288 $\pm$ 1.912 χ^2/NDF :17.1/14

Right Out: -8.041 $\pm$ 2.278 χ^2/NDF : 22.8/18

Left In: -12.504 $\pm$ 1.924 χ^2/NDF :15.0/13

Left: -6.067 $\pm$ 1.356 χ^2/NDF : 54.4/28

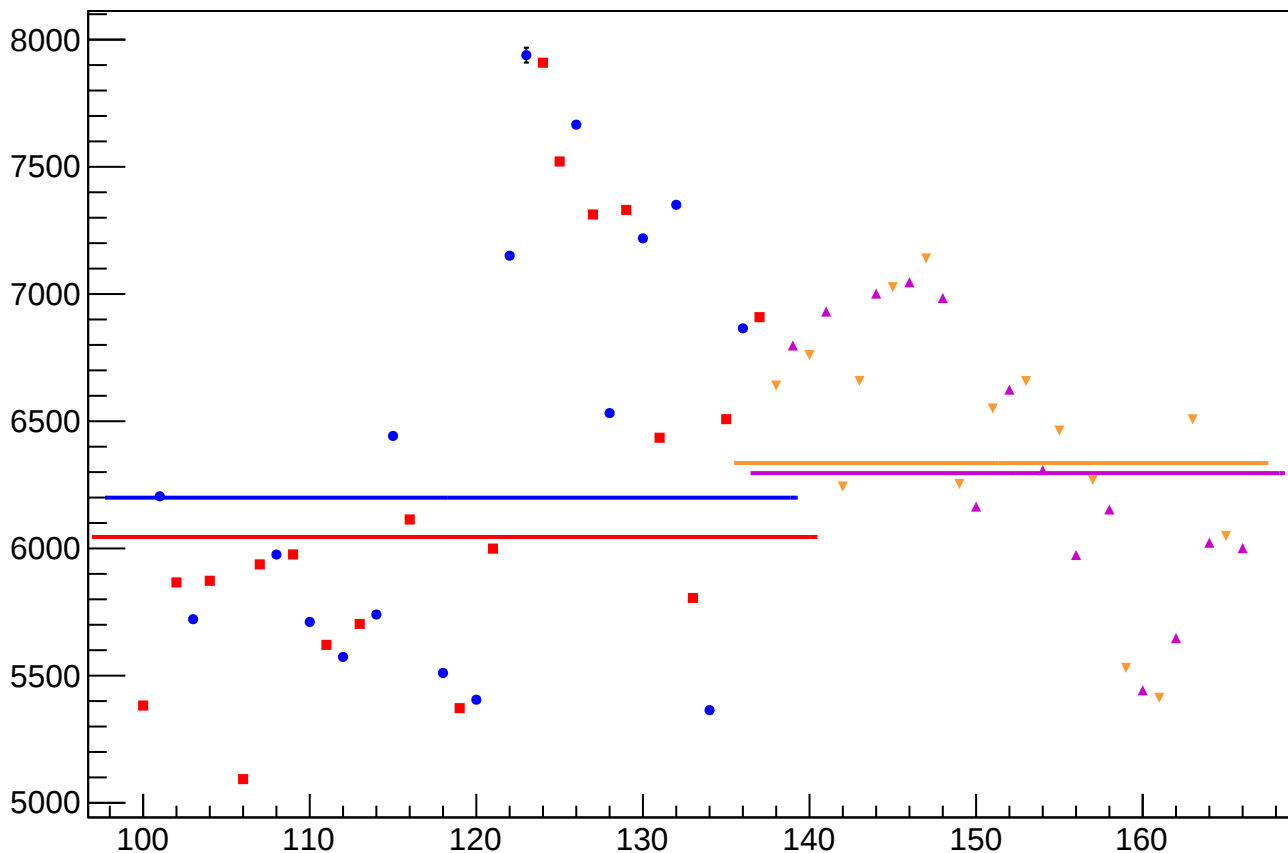
Right: -9.097 $\pm$ 1.655 χ^2/NDF : 46.7/35

In: -11.636 $\pm$ 1.503 χ^2/NDF :39.0/30

Out: -3.154 $\pm$ 1.465 χ^2/NDF :47.7/33

All: -7.285 $\pm$ 1.049 χ^2/NDF : 103.1/64

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: 6296.150 $\pm$ 1.361 χ^2/NDF : 146995.2/13

Left: 6316.118 $\pm$ 0.959 χ^2/NDF : 285517.9/28

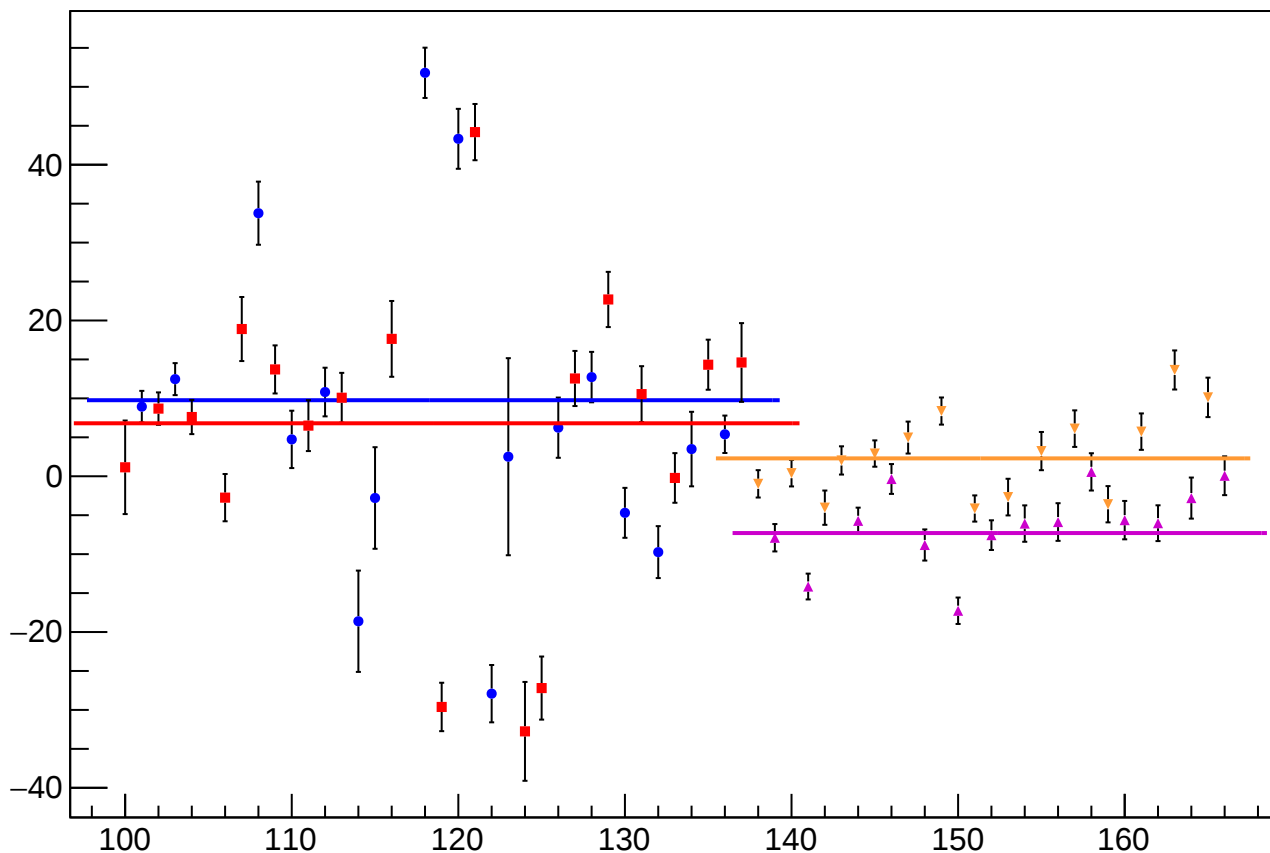
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

In: 6258.522 $\pm$ 1.063 χ^2/NDF : 320717.2/30

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

All: 6236.559 $\pm$ 0.742 χ^2/NDF : 637064.3/64

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 ± 0.797 $\chi^2/\text{NDF}: 473.8/16$

Left Out: 2.295 ± 0.523 $\chi^2/\text{NDF}: 87.5/14$

Right Out: 6.801 ± 0.765 $\chi^2/\text{NDF}: 421.8/18$

Left In: -7.291 ± 0.545 $\chi^2/\text{NDF}: 90.2/13$

Left: -2.300 ± 0.377 $\chi^2/\text{NDF}: 338.9/28$

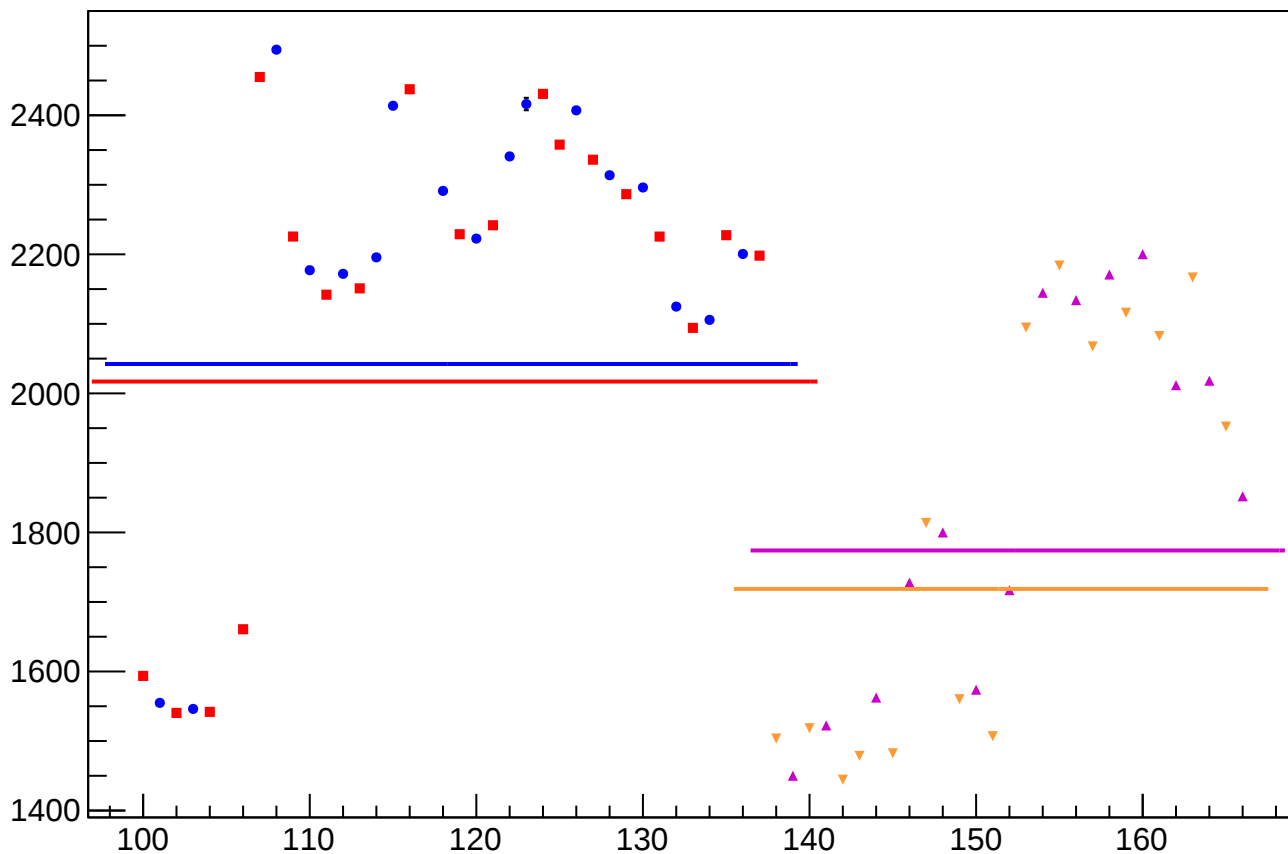
Right: 8.222 ± 0.552 $\chi^2/\text{NDF}: 902.8/35$

In: -1.859 ± 0.450 $\chi^2/\text{NDF}: 876.2/30$

Out: 3.730 ± 0.432 $\chi^2/\text{NDF}: 533.0/33$

All: 1.050 ± 0.311 $\chi^2/\text{NDF}: 1489.6/64$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2042.269+/-0.563 χ^2/NDF : 356820.1/16

Left Out: 1718.759+/-0.370 χ^2/NDF : 569873.9/14

Right Out: 2017.026+/-0.541 χ^2/NDF : 375630.3/18

Left In: 1774.067+/-0.385 χ^2/NDF : 426528.4/13

Left: 1745.275+/-0.267 χ^2/NDF : 1007136.3/28

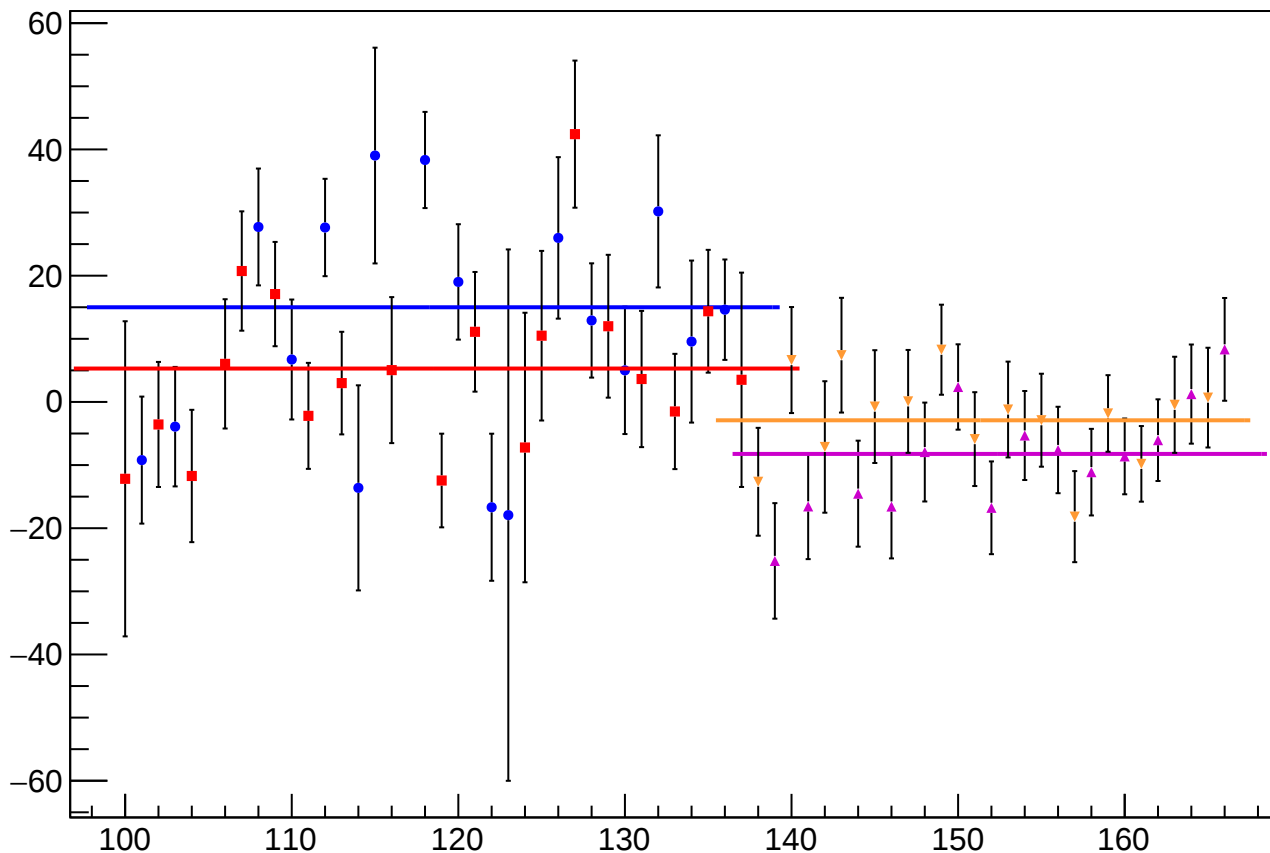
Right: 2029.129+/-0.390 χ^2/NDF : 733495.1/35

In: 1859.482+/-0.318 χ^2/NDF : 937762.7/30

Out: 1813.736+/-0.305 χ^2/NDF : 1152851.1/33

All: 1835.668+/-0.220 χ^2/NDF : 2101388.3/64

diff_bpm0l06X_mean vs Slug, Sign Corrected



Left: -5.569 $\pm$ 1.393 χ^2/NDF : 32.6/28

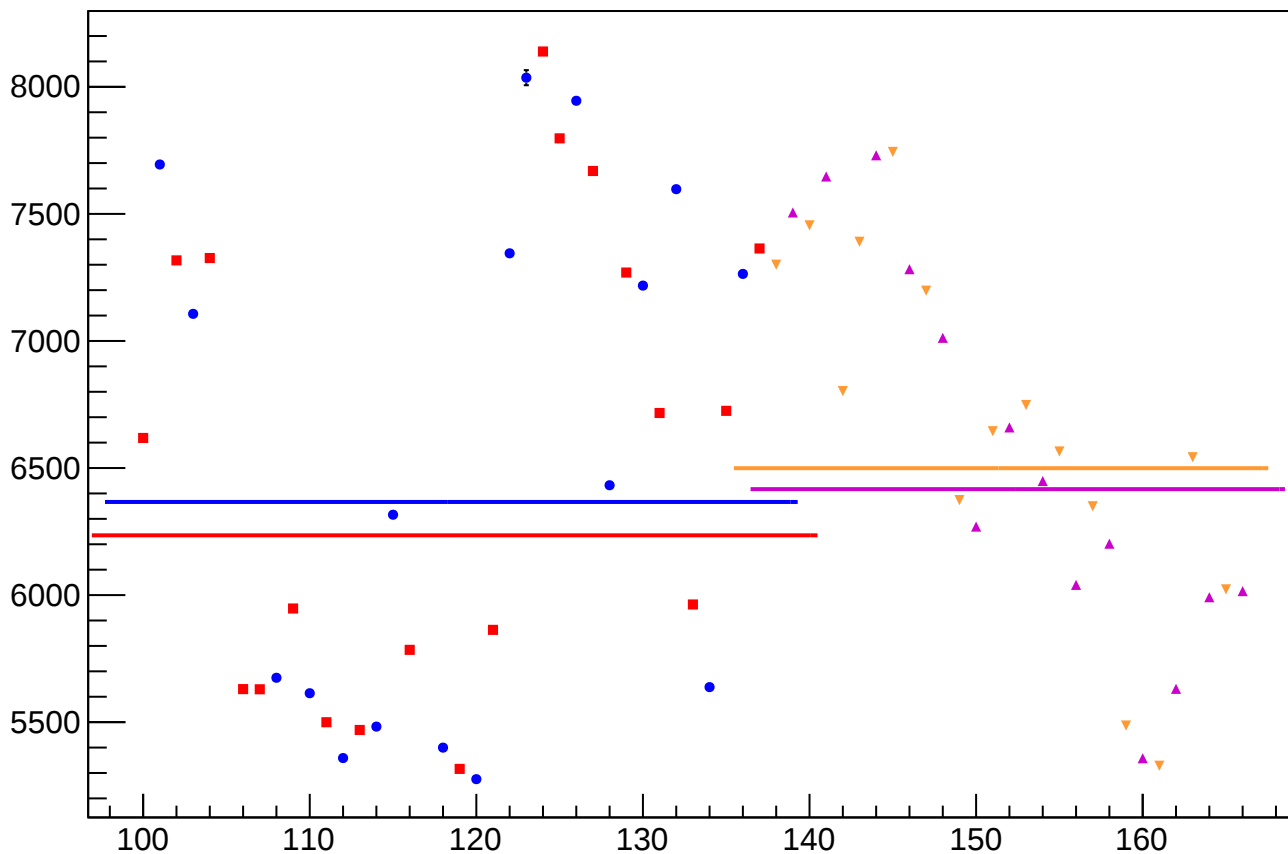
Right: 9.888 $\pm$ 1.710 χ^2/NDF : 77.4/35

In: 0.730 $\pm$ 1.544 χ^2/NDF : 110.9/30

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

All: 0.593 $\pm$ 1.080 χ^2/NDF : 159.1/64

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491 ± 1.757 $\chi^2/\text{NDF}: 286494.5/16$

Left Out: 6499.388 ± 1.392 $\chi^2/\text{NDF}: 262017.5/14$

Right Out: 6235.179 ± 1.667 $\chi^2/\text{NDF}: 243204.0/18$

Left In: 6416.942 ± 1.393 $\chi^2/\text{NDF}: 268101.6/13$

Left: 6458.187 ± 0.985 $\chi^2/\text{NDF}: 531871.5/28$

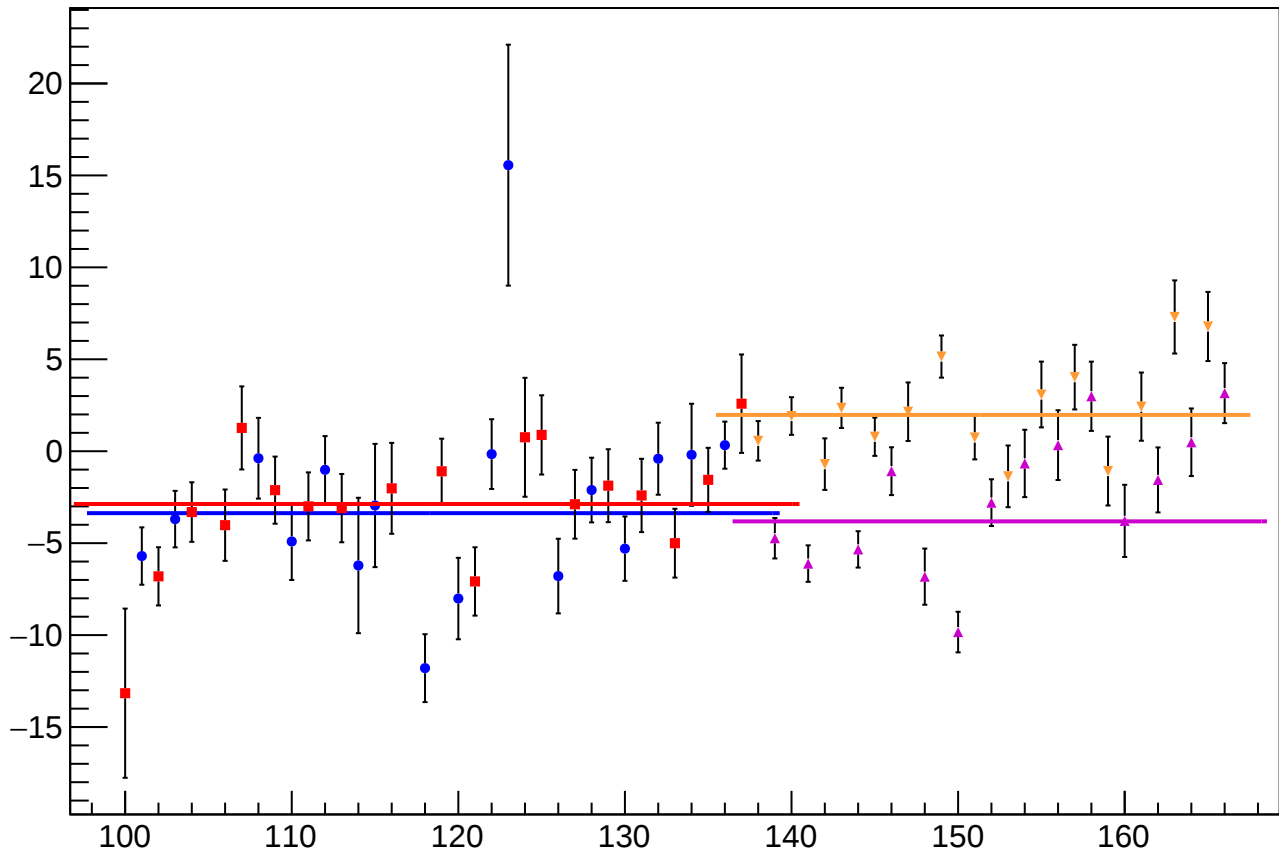
Right: 6297.369 ± 1.209 $\chi^2/\text{NDF}: 532637.5/35$

In: 6397.474 ± 1.092 $\chi^2/\text{NDF}: 555102.3/30$

Out: 6390.815 ± 1.069 $\chi^2/\text{NDF}: 520020.2/33$

All: 6394.074 ± 0.764 $\chi^2/\text{NDF}: 1075141.5/64$

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: -3.815 ± 0.367 χ^2/NDF : 93.2/13

Left: -0.803 ± 0.254 χ^2/NDF : 260.4/28

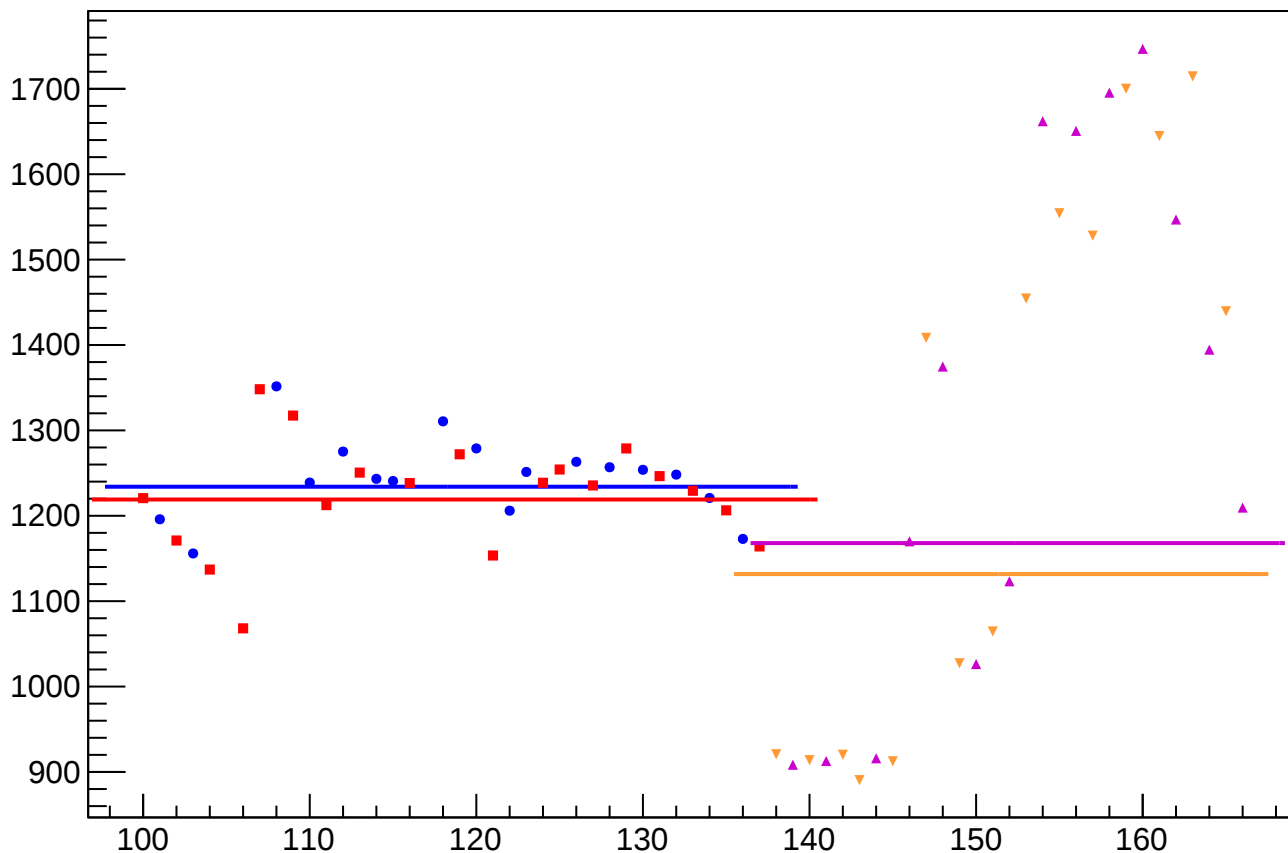
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -3.648 ± 0.290 χ^2/NDF : 153.7/30

Out: 0.165 ± 0.279 χ^2/NDF : 140.3/33

All: -1.664 ± 0.201 χ^2/NDF : 383.6/64

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1234.032 $\pm$ 0.336 χ^2/NDF : 23565.3/16

Left Out: 1131.722 $\pm$ 0.249 χ^2/NDF :1332871.0/14

Right Out: 1219.041 $\pm$ 0.323 χ^2/NDF : 40370.4/18

Left In: 1168.005 $\pm$ 0.259 χ^2/NDF :1174616.6/13

Left: 1149.130 $\pm$ 0.180 χ^2/NDF : 2517663.1/28

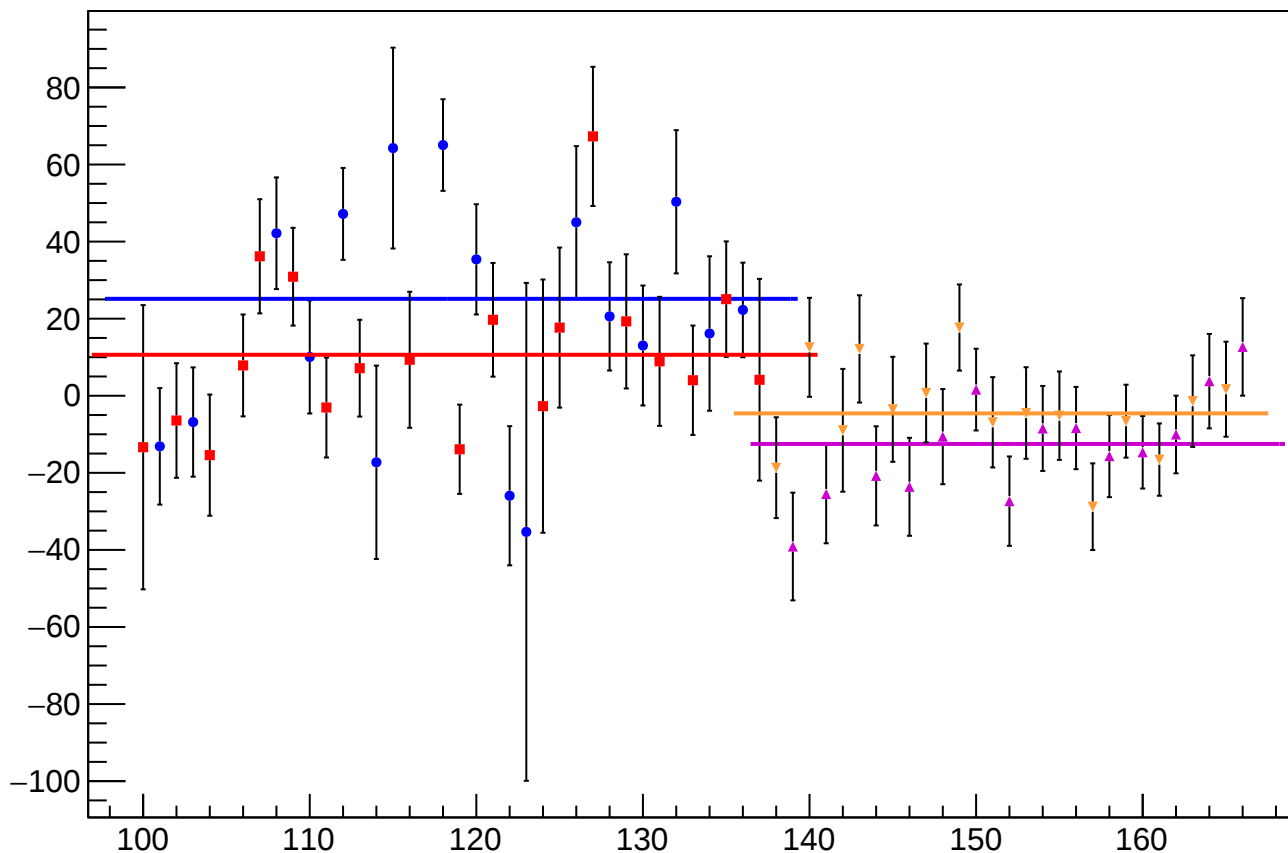
Right: 1226.229 $\pm$ 0.233 χ^2/NDF : 64970.2/35

In: 1192.642 $\pm$ 0.205 χ^2/NDF :1222353.0/30

Out: 1164.329 $\pm$ 0.197 χ^2/NDF :1419111.7/33

All: 1177.910 $\pm$ 0.142 χ^2/NDF : 2651352.0/64

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: -12.505 ± 3.068 $\chi^2/\text{NDF}: 15.5/13$

Left: -8.534 ± 2.168 $\chi^2/\text{NDF}: 34.1/28$

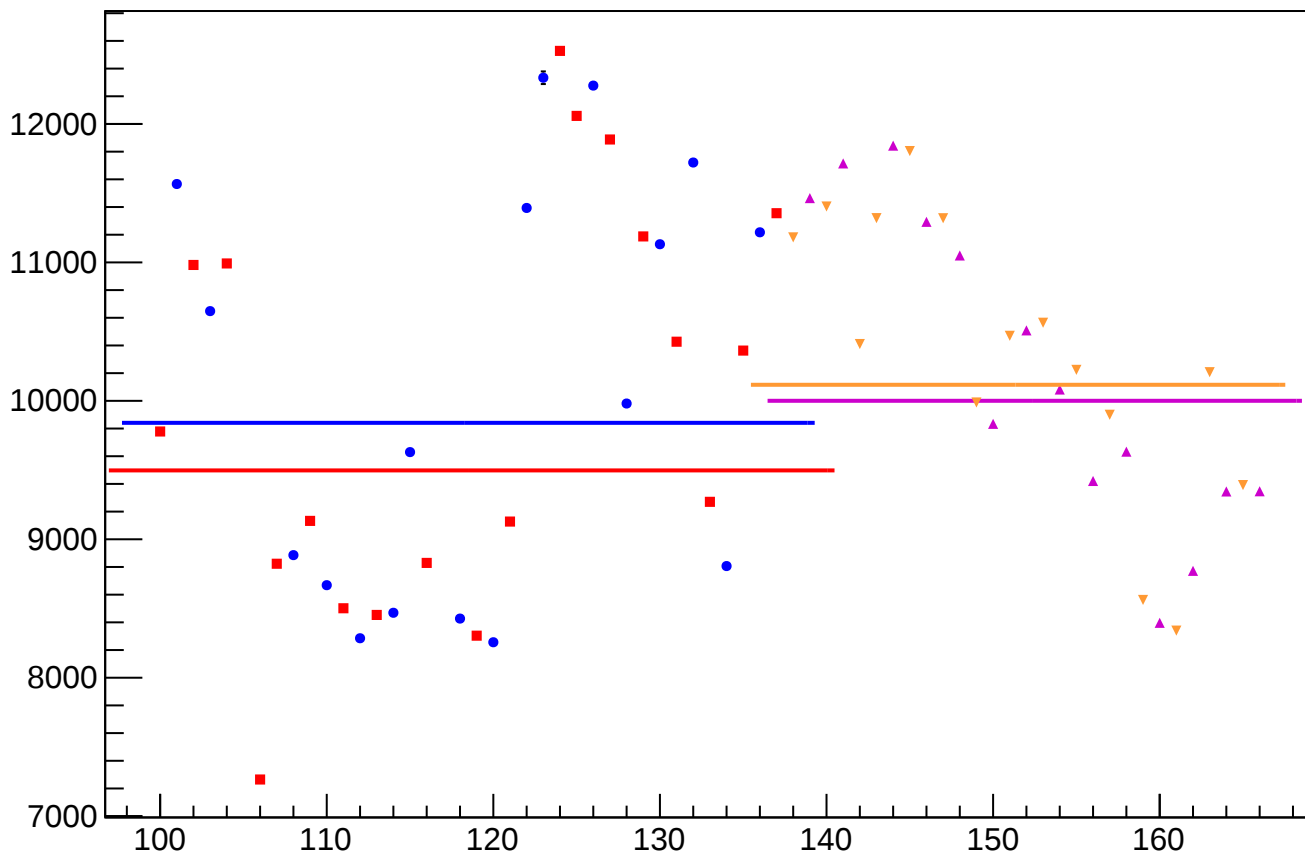
Right: 17.418 ± 2.623 $\chi^2/\text{NDF}: 82.3/35$

In: 2.179 ± 2.396 $\chi^2/\text{NDF}: 121.2/30$

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

All: 1.995 ± 1.671 $\chi^2/\text{NDF}: 174.5/64$

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: 10000.352 ± 2.169 $\chi^2/\text{NDF}: 245692.8/13$

Left: 10058.289 ± 1.533 $\chi^2/\text{NDF}: 483015.4/28$

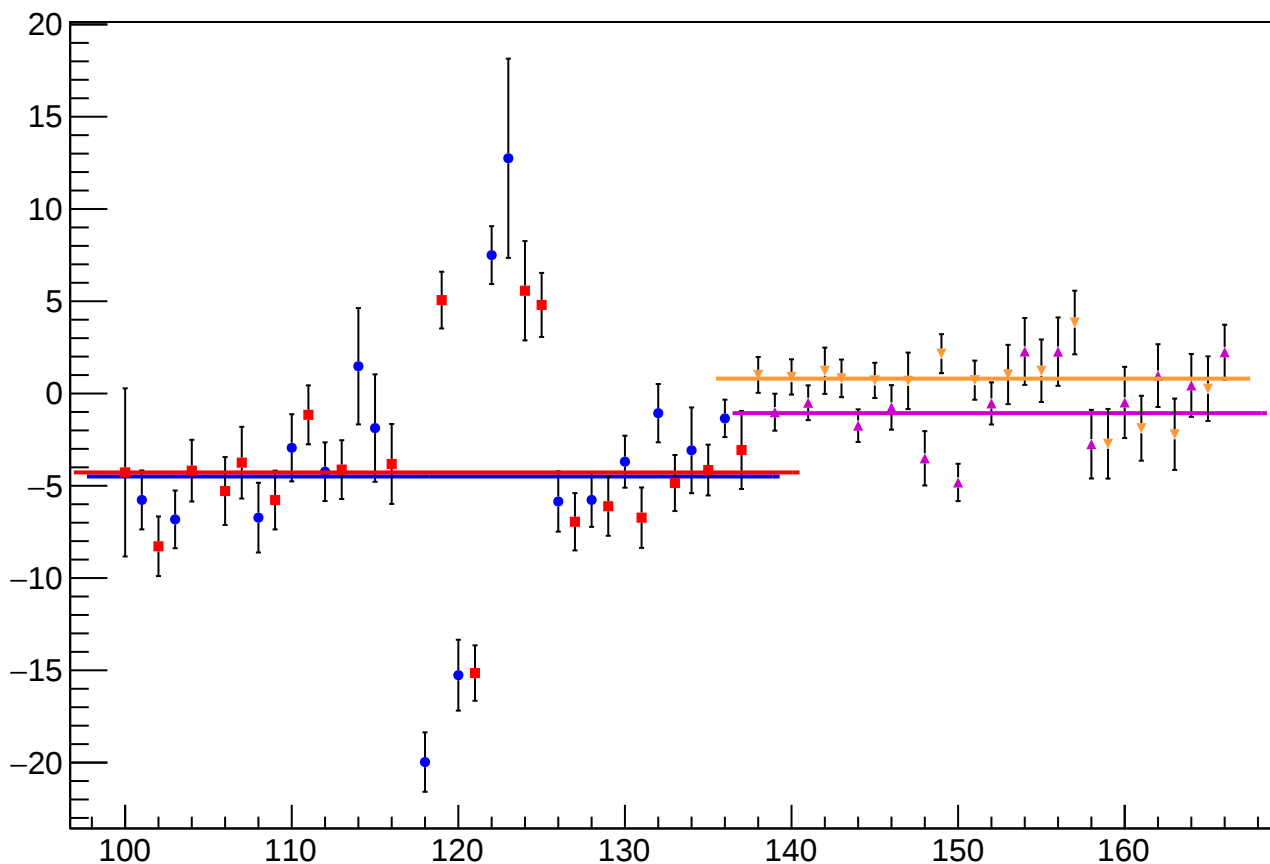
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

In: 9938.278 ± 1.694 $\chi^2/\text{NDF}: 507854.5/30$

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

All: 9895.930 ± 1.182 $\chi^2/\text{NDF}: 1055978.2/64$

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: -1.063 ± 0.341 χ^2/NDF : 32.5/13

Left: -0.090 ± 0.236 χ^2/NDF : 61.5/28

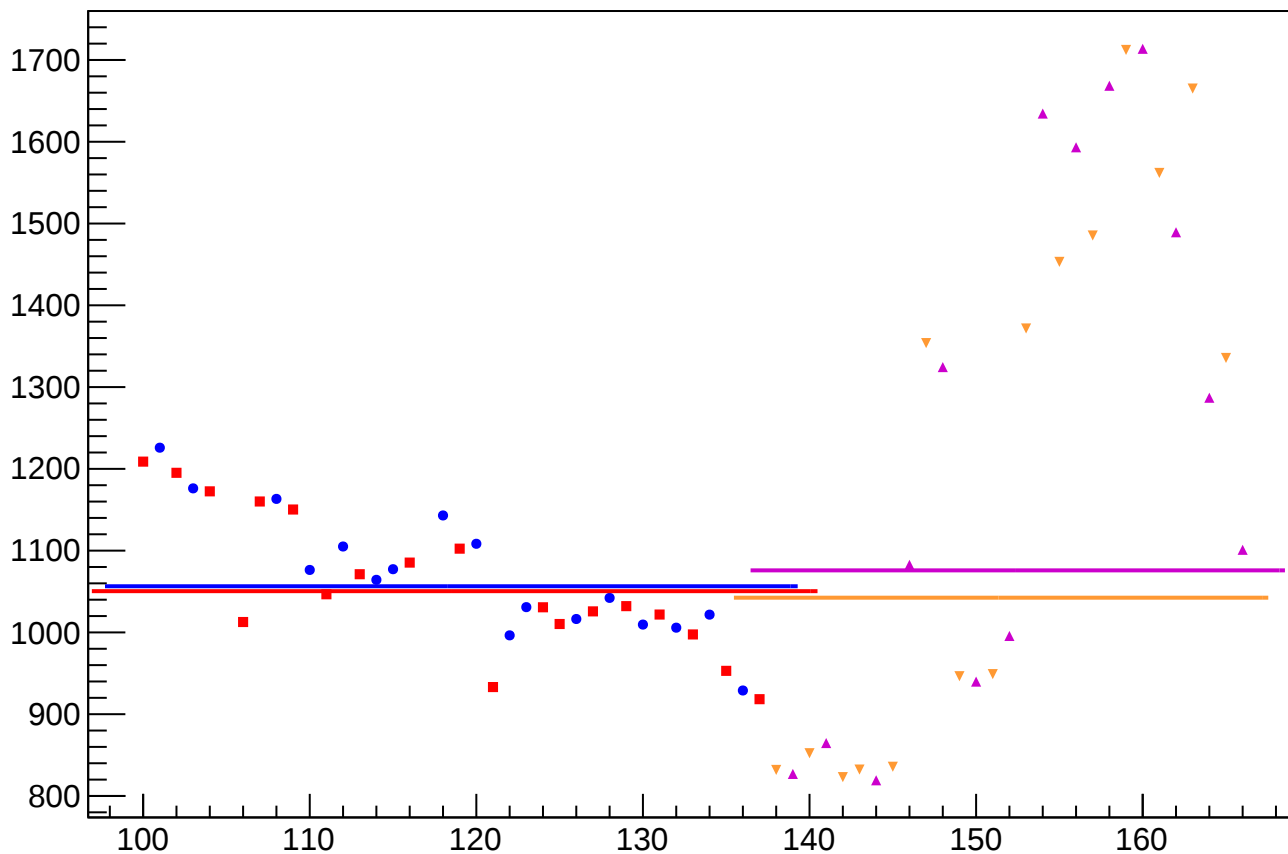
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -2.475 ± 0.262 χ^2/NDF : 292.5/30

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

All: -1.849 ± 0.181 χ^2/NDF : 563.7/64

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: 1075.873 $\pm$ 0.241 χ^2 /NDF:1412246.9/13

Left: 1058.473 $\pm$ 0.167 χ^2 /NDF: 2974114.8/28

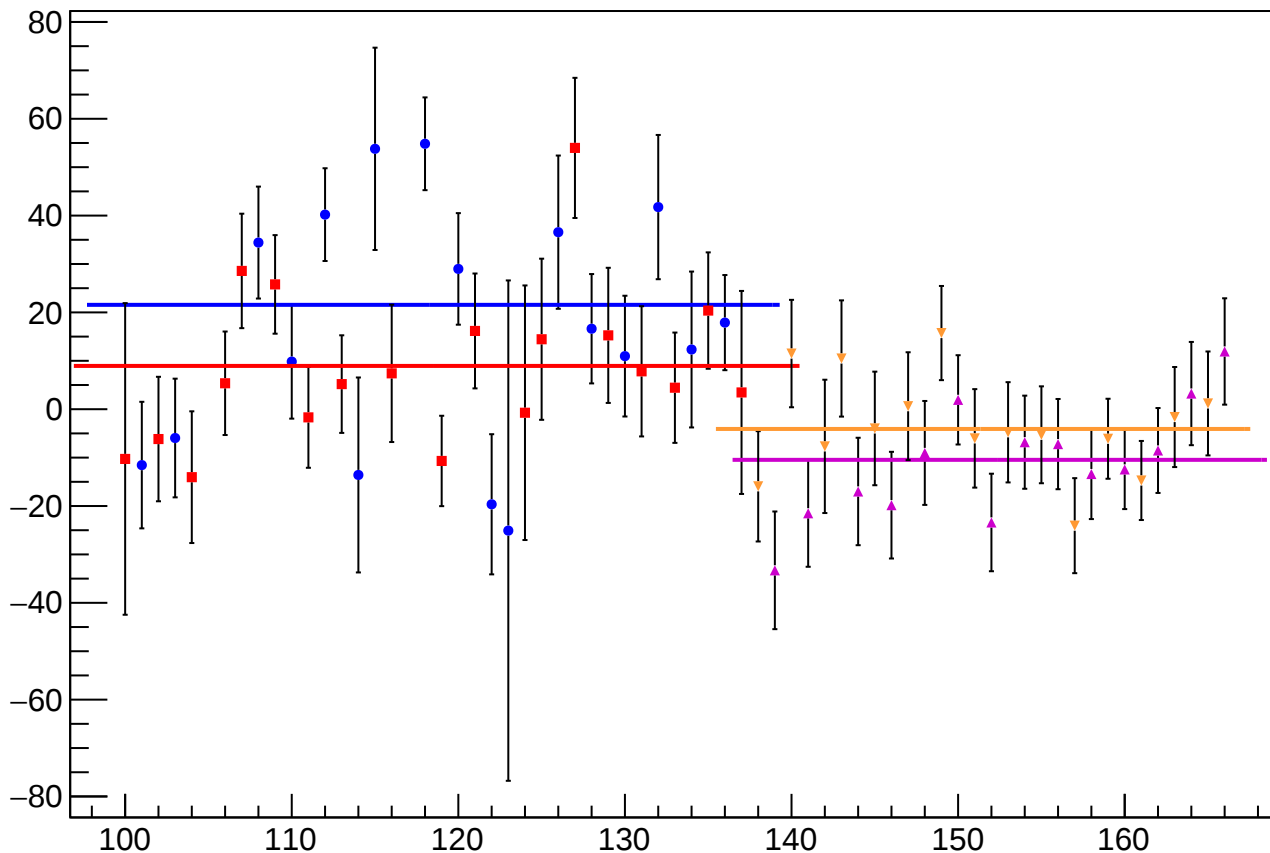
Right: 1053.333 $\pm$ 0.200 χ^2 /NDF: 173392.8/35

In: 1067.879 $\pm$ 0.185 χ^2 /NDF:1505689.9/30

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

All: 1056.367 $\pm$ 0.128 χ^2 /NDF: 3147895.8/64

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: -10.460+/-2.669 χ^2/NDF : 15.3/13

Left: -7.263+/-1.885 χ^2/NDF : 33.4/28

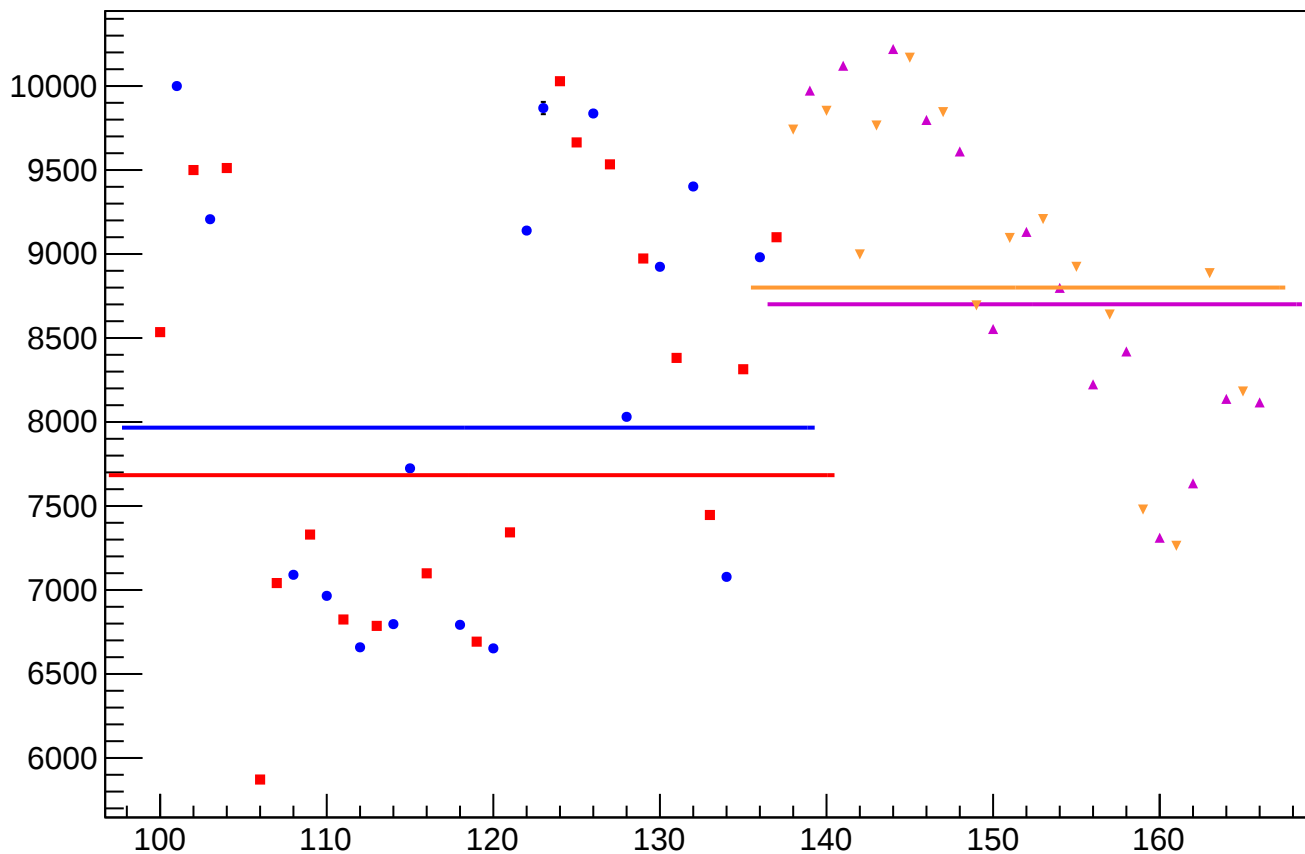
Right: 14.837+/-2.126 χ^2/NDF : 84.6/35

In: 3.117+/-2.025 χ^2/NDF : 124.8/30

Out: 1.854+/-1.965 χ^2/NDF : 53.5/33

All: 2.467+/-1.410 χ^2/NDF : 178.5/64

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.405 $\pm$ 2.199 χ^2 /NDF: 296611.1/16

Left Out: 8800.339 $\pm$ 1.884 χ^2 /NDF: 224313.0/14

Right Out: 7683.479 $\pm$ 2.059 χ^2 /NDF: 315033.7/18

Left In: 8700.766 $\pm$ 1.887 χ^2 /NDF: 236346.1/13

Left: 8750.642 $\pm$ 1.333 χ^2 /NDF: 462053.9/28

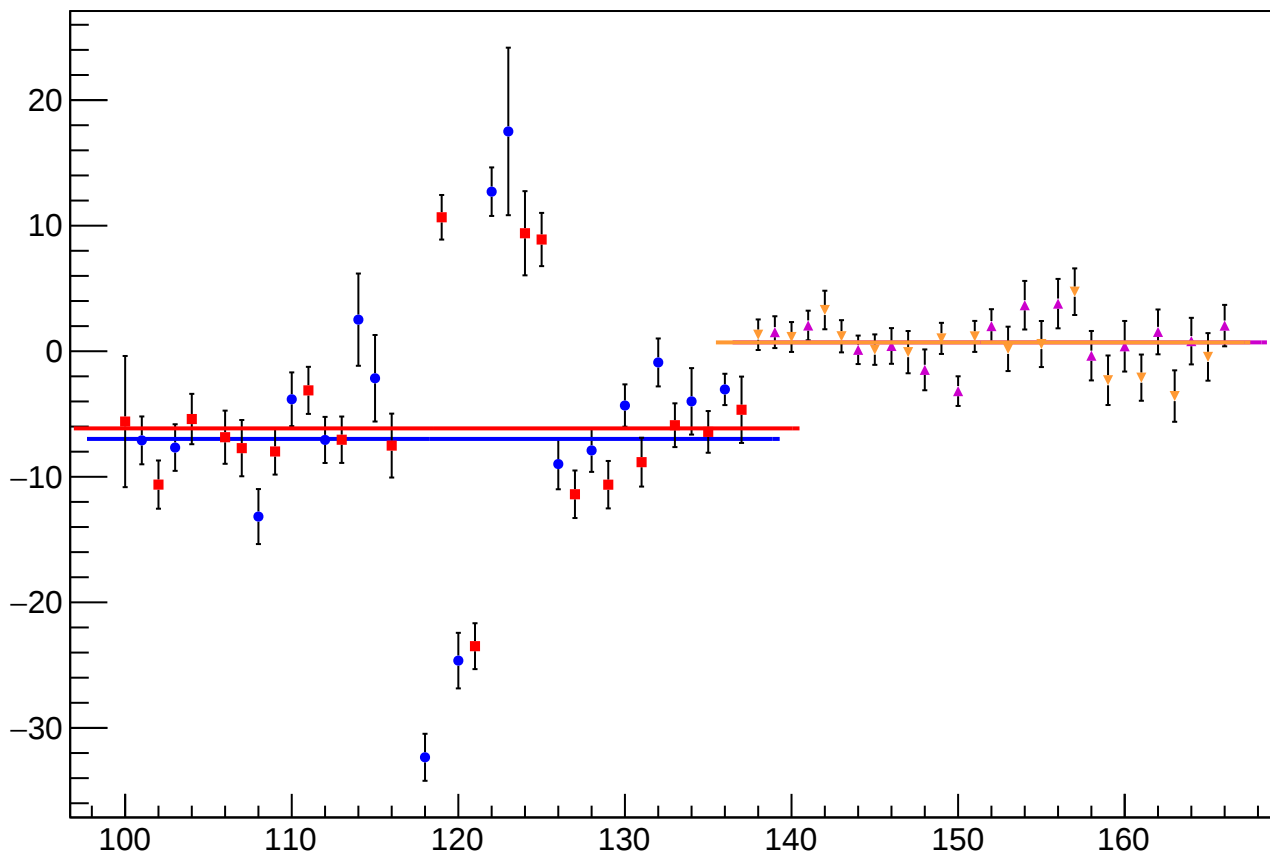
Right: 7815.627 $\pm$ 1.503 χ^2 /NDF: 620463.8/35

In: 8389.401 $\pm$ 1.432 χ^2 /NDF: 597175.2/30

Out: 8291.514 $\pm$ 1.390 χ^2 /NDF: 699528.8/33

All: 8338.989 $\pm$ 0.997 χ^2 /NDF: 1299110.1/64

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: 0.705 ± 0.400 χ^2/NDF : 21.6/13

Left: 0.704 ± 0.277 χ^2/NDF : 39.8/28

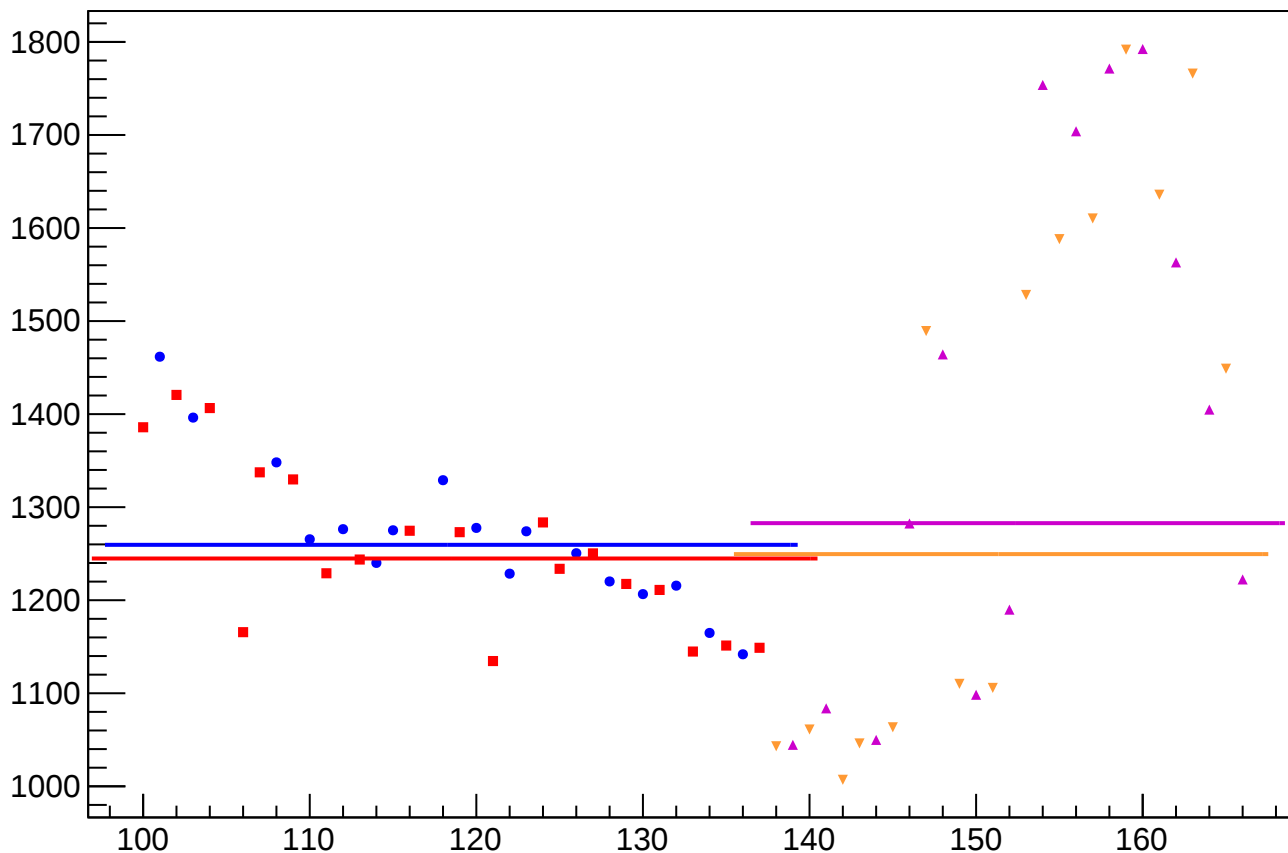
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -2.395 ± 0.309 χ^2/NDF : 579.3/30

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

All: -2.229 ± 0.214 χ^2/NDF : 1003.6/64

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: 1282.824 $\pm$ 0.283 χ^2 /NDF: 817053.1/13

Left: 1265.589 $\pm$ 0.196 χ^2 /NDF: 1754020.8/28

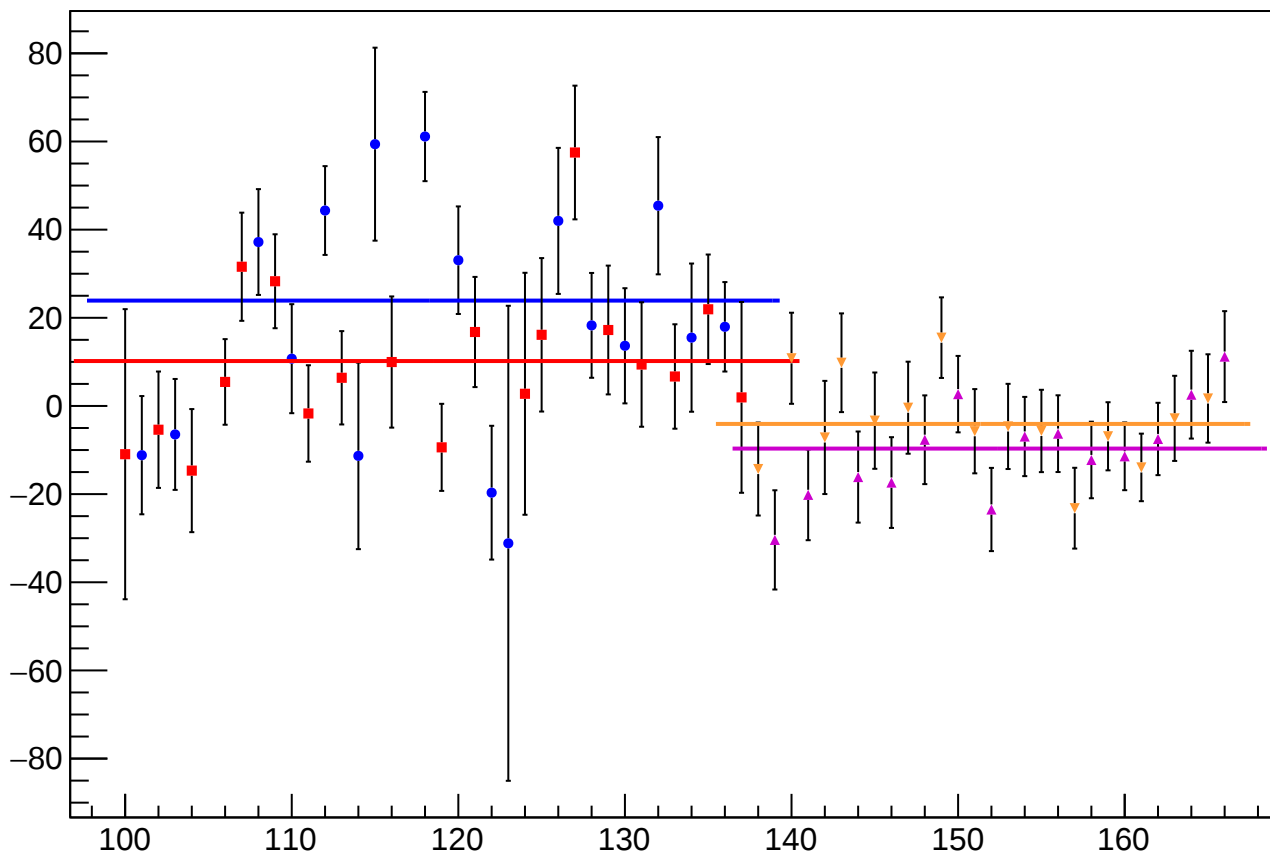
Right: 1251.883 $\pm$ 0.238 χ^2 /NDF: 132621.3/35

In: 1273.431 $\pm$ 0.218 χ^2 /NDF: 884637.1/30

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

All: 1260.045 $\pm$ 0.151 χ^2 /NDF: 1888616.2/64

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.904 ± 3.251 $\chi^2/\text{NDF}: 52.4/16$

Left Out: -4.078 ± 2.489 $\chi^2/\text{NDF}: 15.9/14$

Right Out: 10.190 ± 3.006 $\chi^2/\text{NDF}: 27.9/18$

Left In: -9.671 ± 2.495 $\chi^2/\text{NDF}: 15.6/13$

Left: -6.868 ± 1.762 $\chi^2/\text{NDF}: 34.0/28$

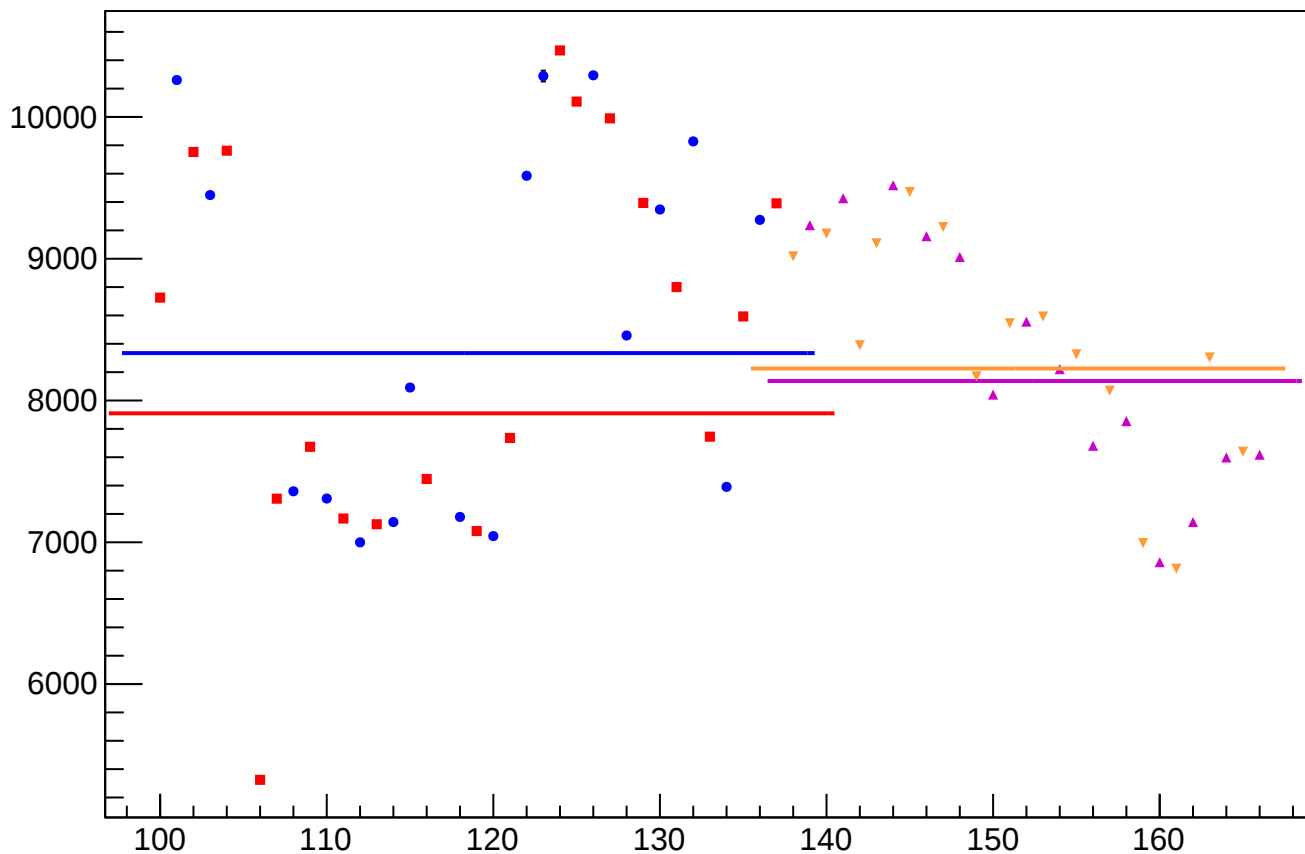
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: 2.778 ± 1.979 $\chi^2/\text{NDF}: 135.2/30$

Out: 1.727 ± 1.917 $\chi^2/\text{NDF}: 57.2/33$

All: 2.236 ± 1.377 $\chi^2/\text{NDF}: 192.5/64$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.507 $\pm$ 2.299 χ^2/NDF : 272302.6/16

Left Out: 8225.733 $\pm$ 1.760 χ^2/NDF :216916.4/14

Right Out: 7909.620 $\pm$ 2.125 χ^2/NDF : 390819.3/18

Left In: 8137.658 $\pm$ 1.764 χ^2/NDF :228521.9/13

Left: 8181.800 $\pm$ 1.246 χ^2/NDF : 446687.2/28

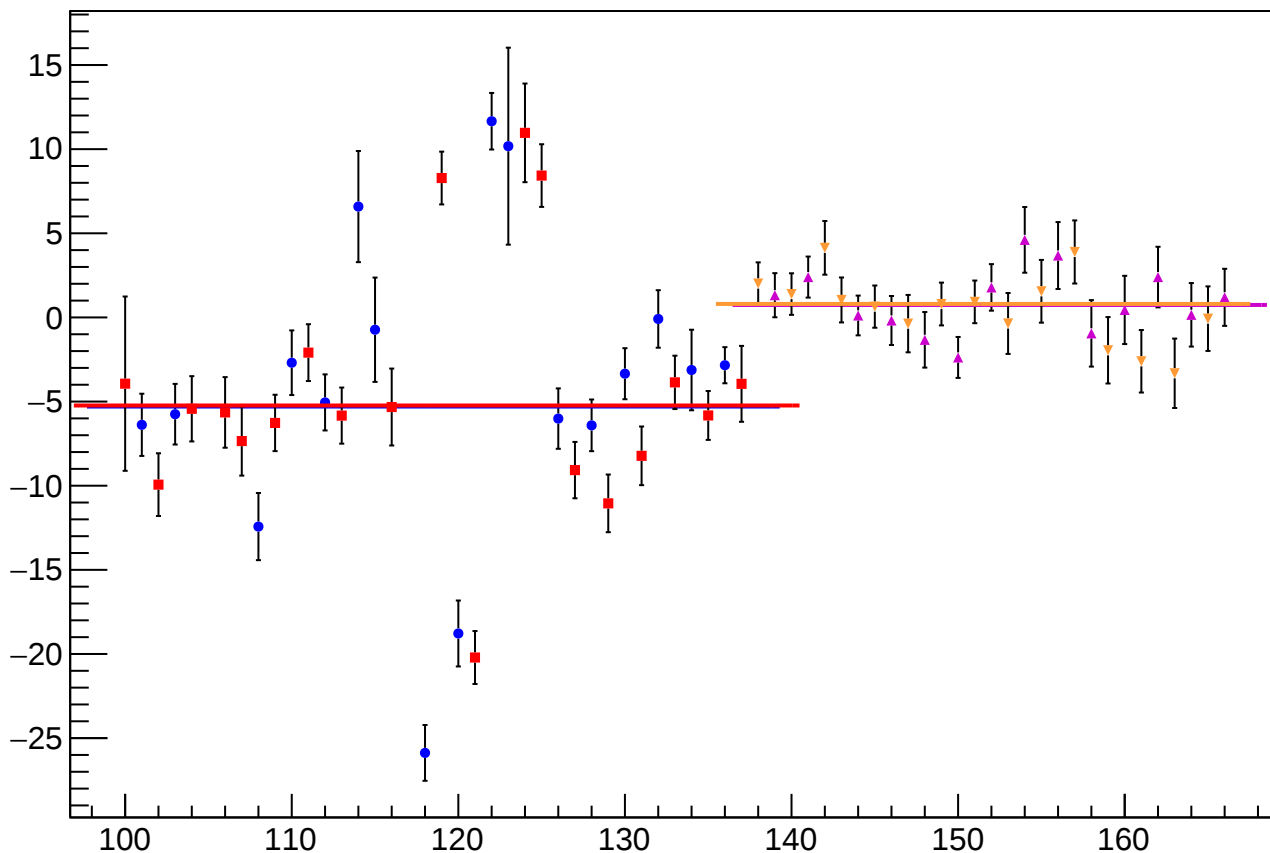
Right: 8105.450 $\pm$ 1.560 χ^2/NDF : 681543.4/35

In: 8210.643 $\pm$ 1.400 χ^2/NDF :505439.7/30

Out: 8097.120 $\pm$ 1.356 χ^2/NDF :620858.2/33

All: 8152.070 $\pm$ 0.974 χ^2/NDF : 1129692.5/64

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: 0.742 ± 0.410 χ^2/NDF : 19.3/13

Left: 0.773 ± 0.284 χ^2/NDF : 38.2/28

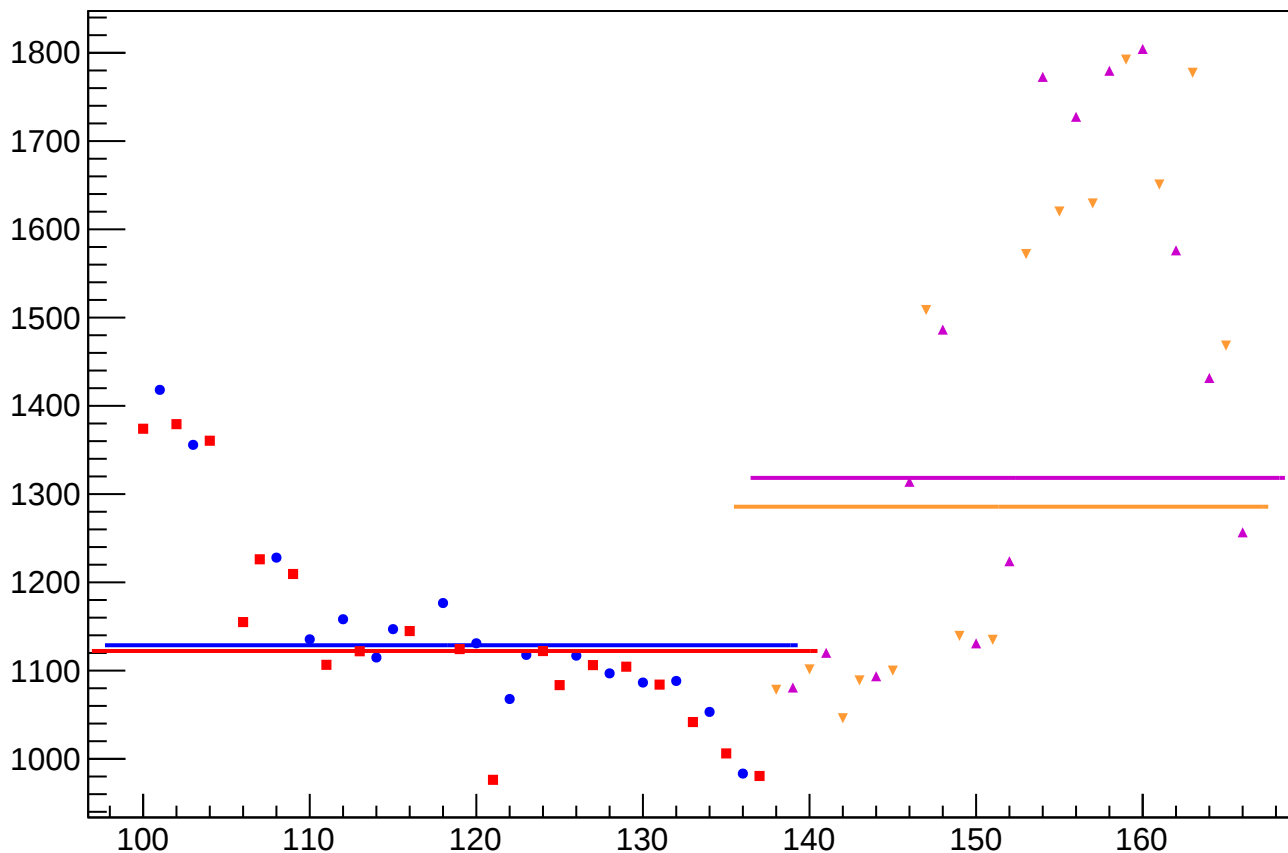
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -2.082 ± 0.299 χ^2/NDF : 479.1/30

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

All: -2.051 ± 0.208 χ^2/NDF : 888.8/64

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.740 +/- 0.309 χ^2/NDF : 133096.9/16

Left Out: 1285.712 +/- 0.280 χ^2/NDF : 843003.0/14

Right Out: 1122.238 +/- 0.298 χ^2/NDF : 129601.6/18

Left In: 1318.367 +/- 0.290 χ^2/NDF : 736400.6/13

Left: 1301.466 +/- 0.201 χ^2/NDF : 1585982.9/28

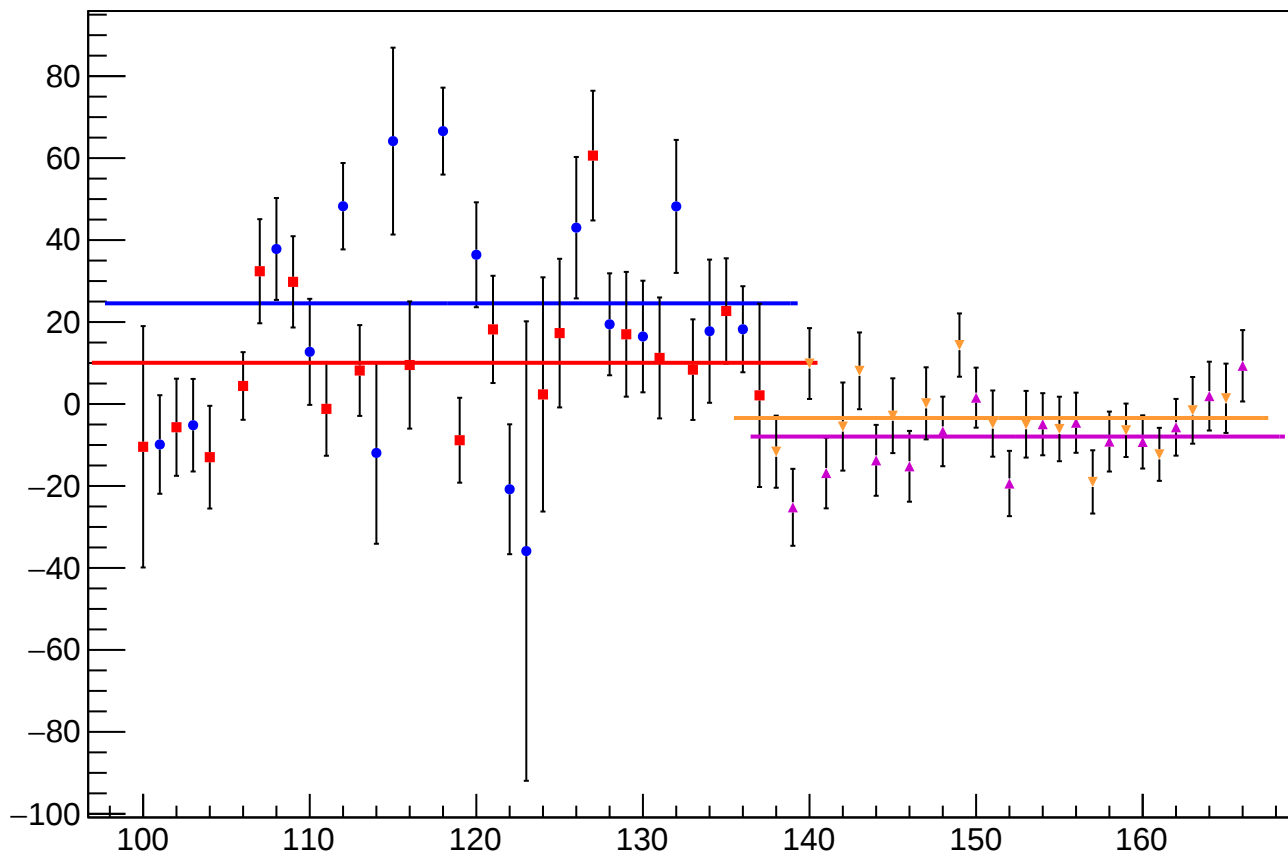
Right: 1125.374 +/- 0.215 χ^2/NDF : 262927.9/35

In: 1229.651 +/- 0.211 χ^2/NDF : 1070047.3/30

Out: 1209.211 +/- 0.204 χ^2/NDF : 1132543.4/33

All: 1219.071 +/- 0.147 χ^2/NDF : 2207435.3/64

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.569 ± 3.318 $\chi^2/\text{NDF}: 58.1/16$

Left Out: -3.412 ± 2.094 $\chi^2/\text{NDF}: 17.0/14$

Right Out: 10.057 ± 3.008 $\chi^2/\text{NDF}: 28.8/18$

Left In: -7.944 ± 2.101 $\chi^2/\text{NDF}: 15.2/13$

Left: -5.671 ± 1.483 $\chi^2/\text{NDF}: 34.6/28$

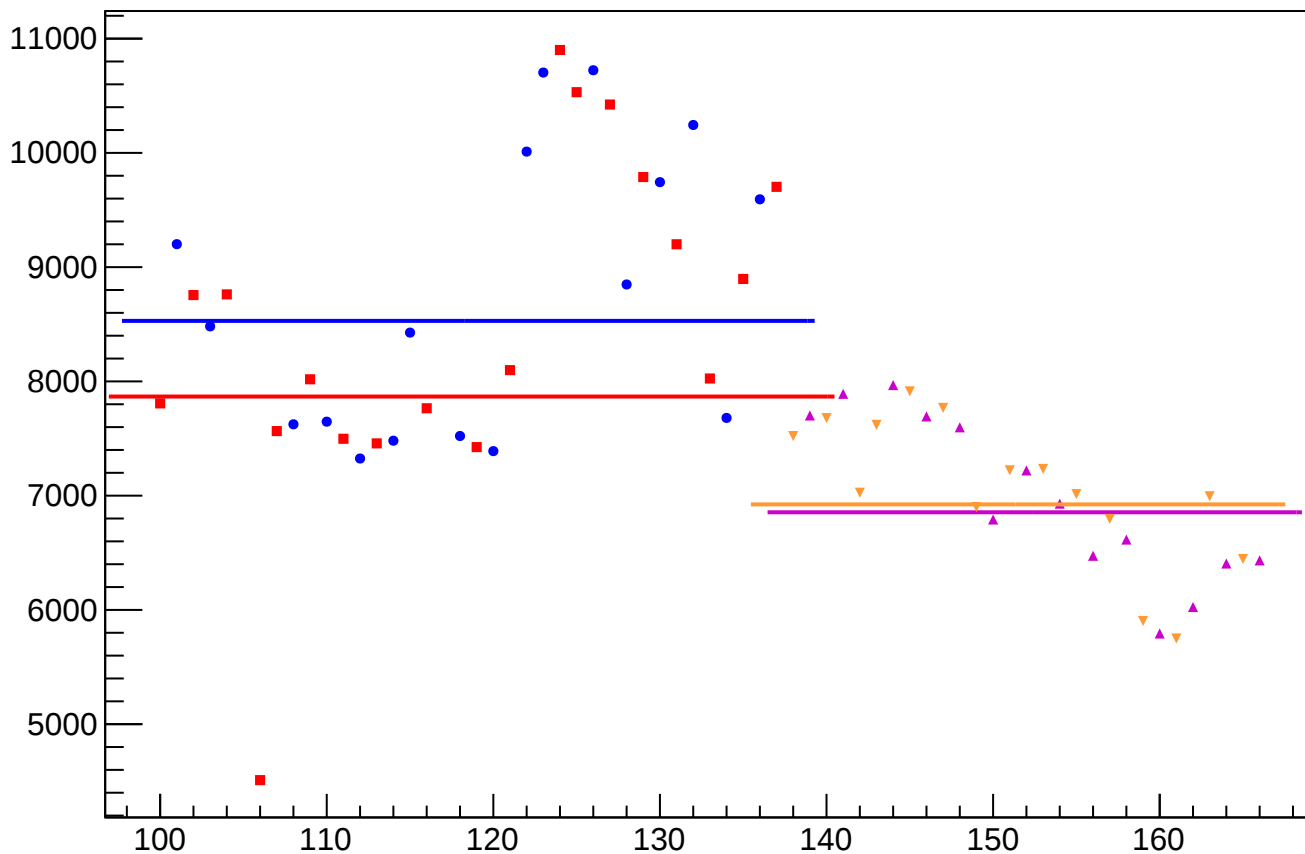
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

In: 1.360 ± 1.775 $\chi^2/\text{NDF}: 141.9/30$

Out: 0.987 ± 1.719 $\chi^2/\text{NDF}: 59.3/33$

All: 1.167 ± 1.235 $\chi^2/\text{NDF}: 201.2/64$

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: 6854.536 $\pm$ 1.486 χ^2 /NDF: 217215.8/13

Left: 6889.107 $\pm$ 1.049 χ^2 /NDF: 423794.0/28

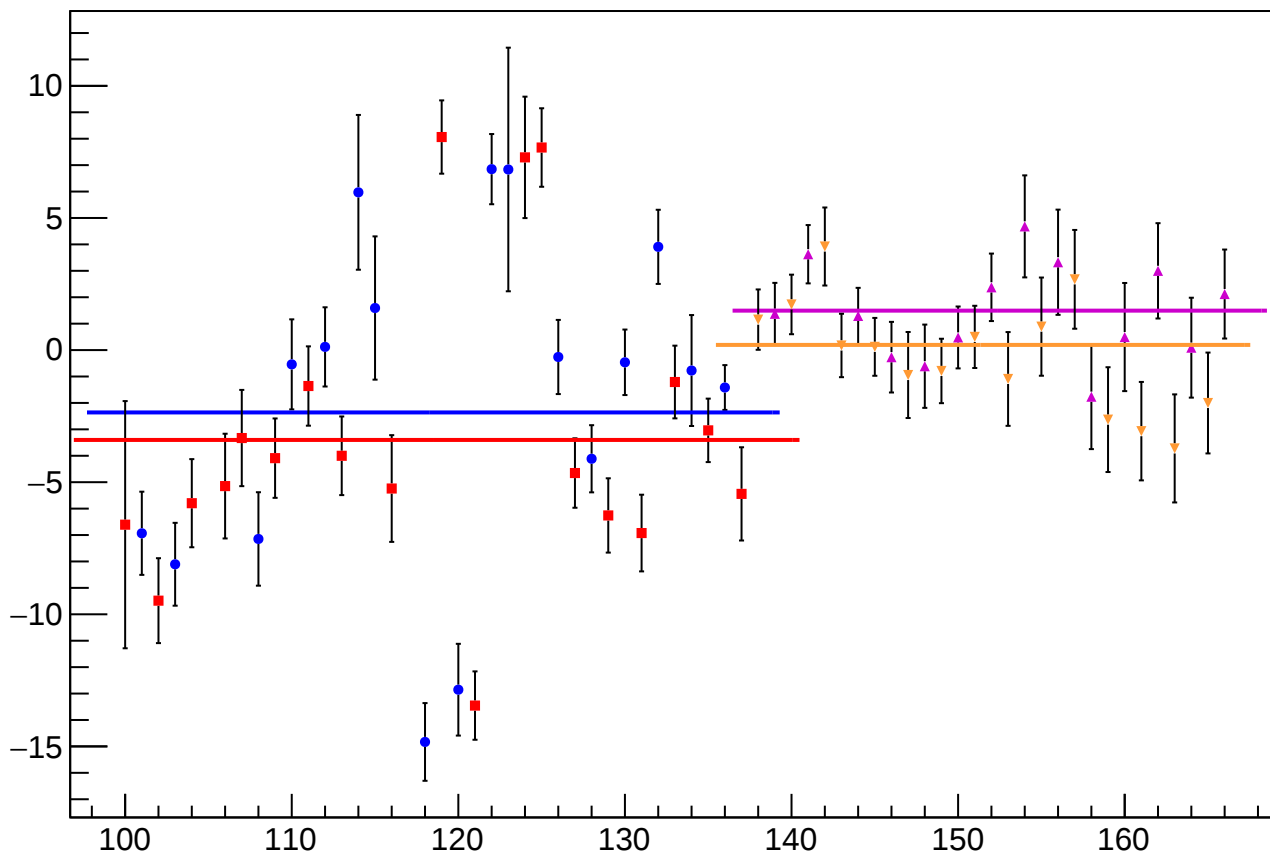
Right: 8166.253 $\pm$ 1.576 χ^2 /NDF: 807907.7/35

In: 7333.926 $\pm$ 1.255 χ^2 /NDF: 789435.5/30

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

All: 7281.211 $\pm$ 0.873 χ^2 /NDF: 1686908.6/64

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.360 ± 0.366 χ^2/NDF : 232.0/16

Left Out: 0.196 ± 0.371 χ^2/NDF : 22.7/14

Right Out: -3.401 ± 0.358 χ^2/NDF : 241.4/18

Left In: 1.493 ± 0.386 χ^2/NDF : 16.4/13

Left: 0.818 ± 0.268 χ^2/NDF : 44.9/28

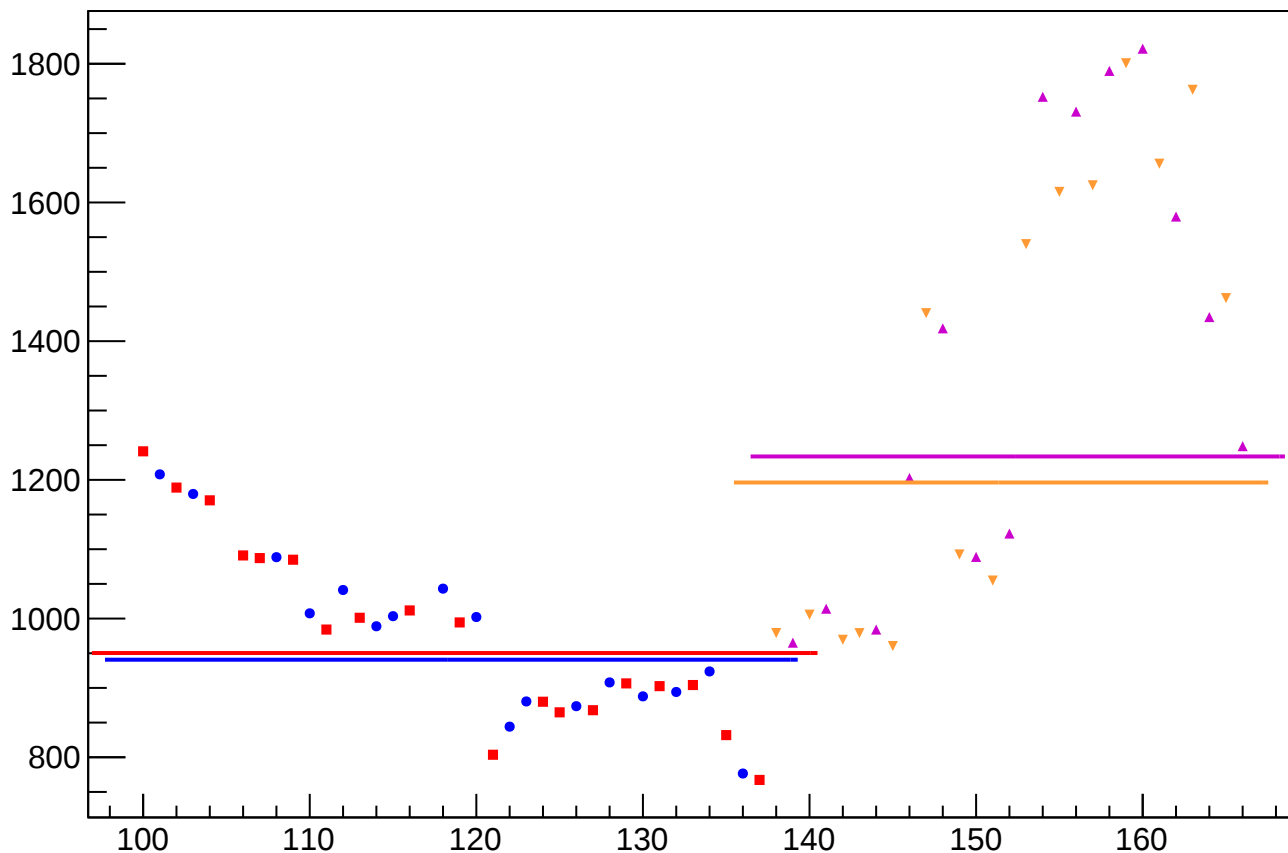
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.541 ± 0.266 χ^2/NDF : 300.9/30

Out: -1.666 ± 0.258 χ^2/NDF : 312.7/33

All: -1.120 ± 0.185 χ^2/NDF : 622.8/64

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: 1233.747 $\pm$ 0.273 χ^2 /NDF:1056757.4/13

Left: 1214.219 $\pm$ 0.189 χ^2 /NDF: 2271475.1/28

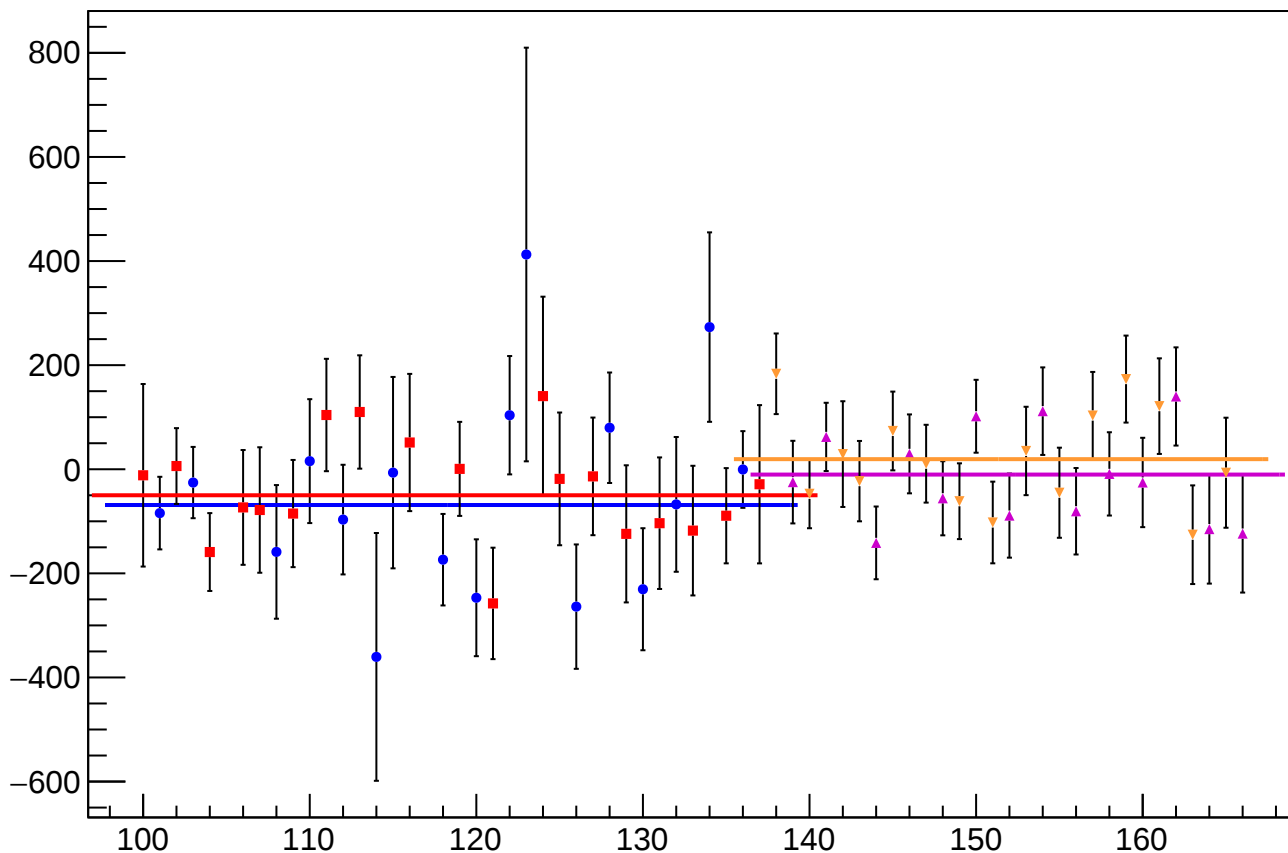
Right: 945.597 $\pm$ 0.181 χ^2 /NDF: 463155.1/35

In: 1079.064 $\pm$ 0.188 χ^2 /NDF:1905512.4/30

Out: 1068.918 $\pm$ 0.182 χ^2 /NDF:1880190.0/33

All: 1073.839 $\pm$ 0.131 χ^2 /NDF: 3787205.7/64

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: -10.211 $\pm$ 21.396 χ^2/NDF : 16.4/13

Left: 4.791 $\pm$ 15.032 χ^2/NDF : 35.9/28

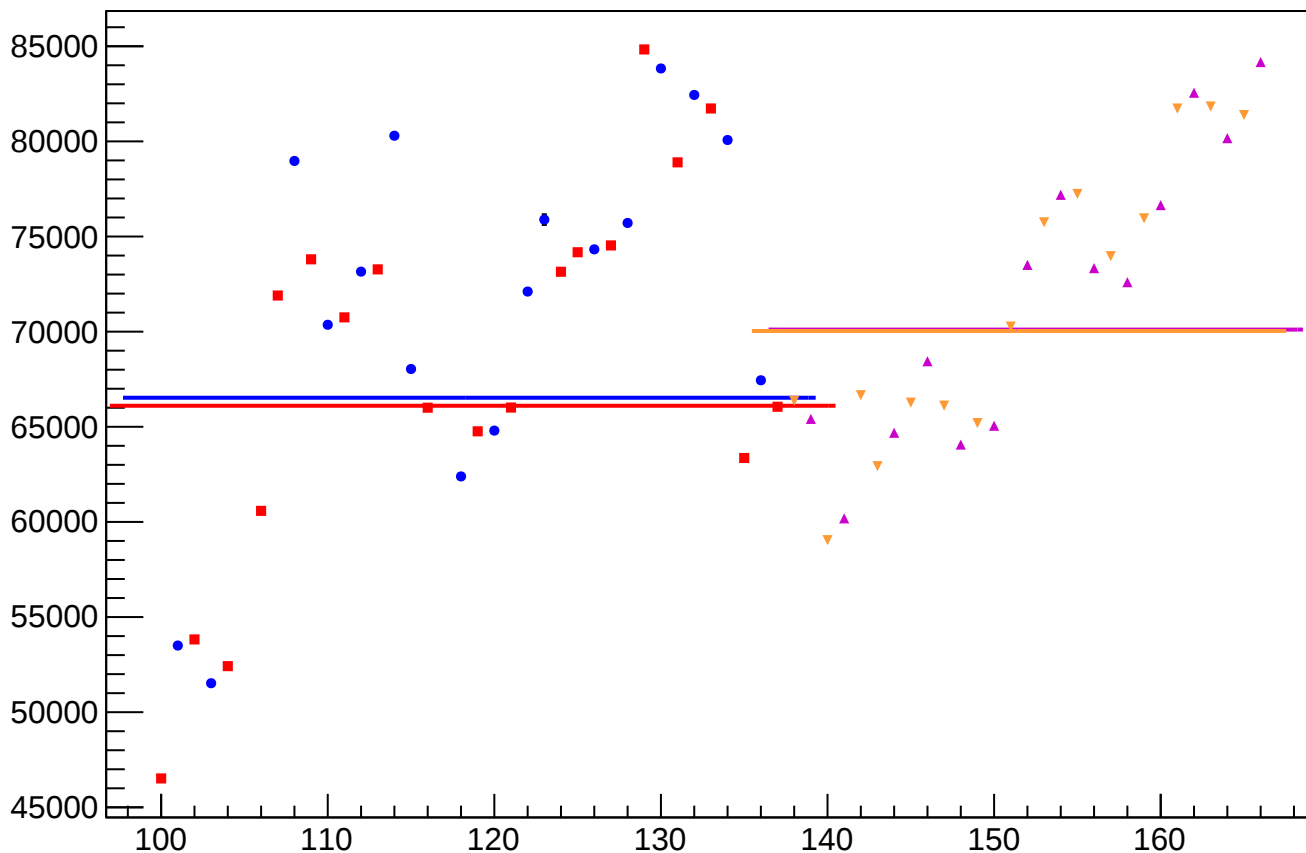
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -33.881 $\pm$ 16.507 χ^2/NDF : 41.1/30

Out: -9.456 $\pm$ 16.140 χ^2/NDF : 37.1/33

All: -21.394 $\pm$ 11.540 χ^2/NDF : 79.3/64

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251+/-18.347

χ^2/NDF : 320887.2/16

Left: 70071.793+/-10.629 χ^2/NDF : 430980.2/28

Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

Left Out: 70035.588+/-14.936

χ^2/NDF : 221910.7/14

In: 68659.190+/-11.672 χ^2/NDF : 552630.7/30

Right Out: 66105.849+/-17.692 χ^2/NDF : 298485.4/18

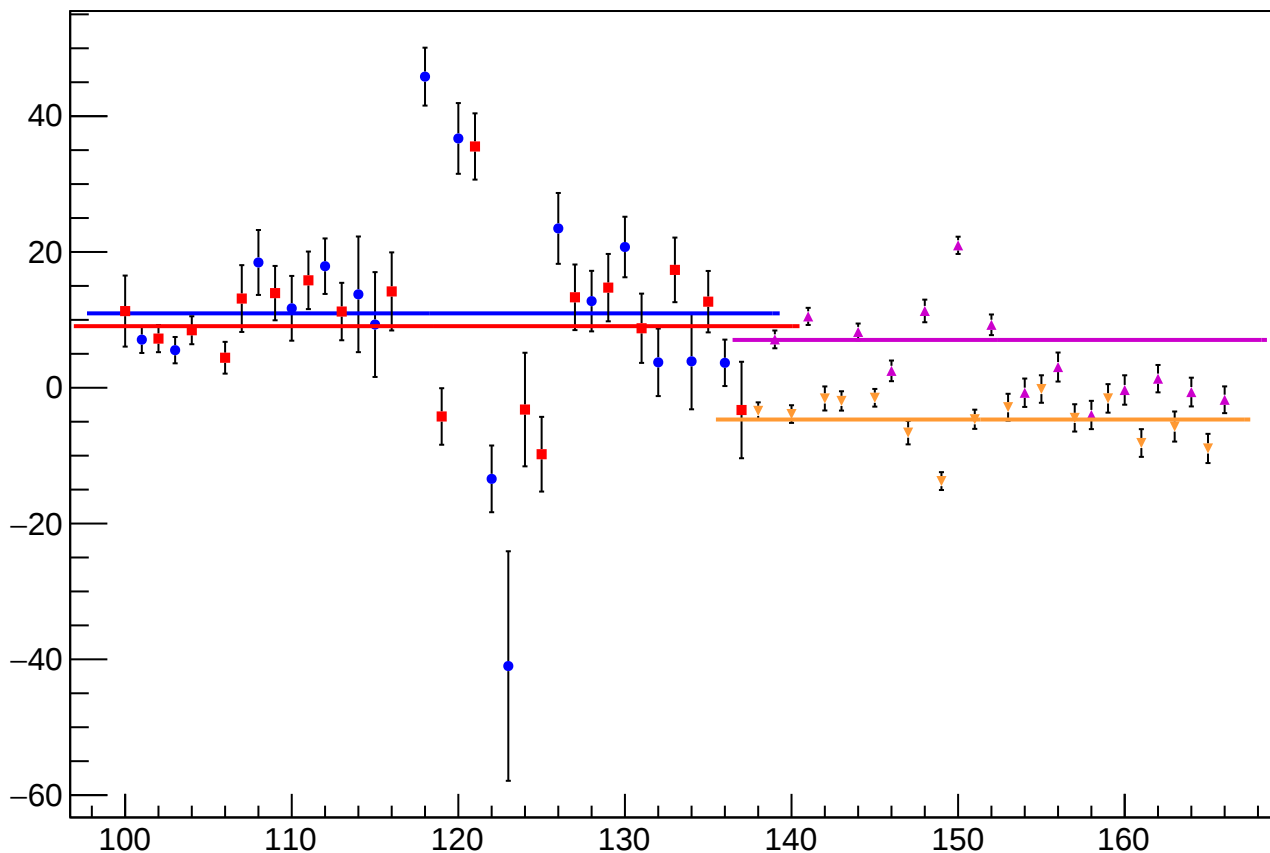
Out: 68400.270+/-11.413 χ^2/NDF : 549203.6/33

Left In: 70108.942+/-15.129

χ^2/NDF : 209057.6/13

All: 68526.817+/-8.160 χ^2/NDF : 1102085.9/6

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 $\pm$ 0.943 χ^2 /NDF: 160.9/16

Left Out: -4.678 $\pm$ 0.420 χ^2 /NDF: 78.0/14

Right Out: 9.072 $\pm$ 0.866 χ^2 /NDF: 73.1/18

Left In: 7.045 $\pm$ 0.433 χ^2 /NDF: 244.6/13

Left: 1.001 $\pm$ 0.302 χ^2 /NDF: 700.1/28

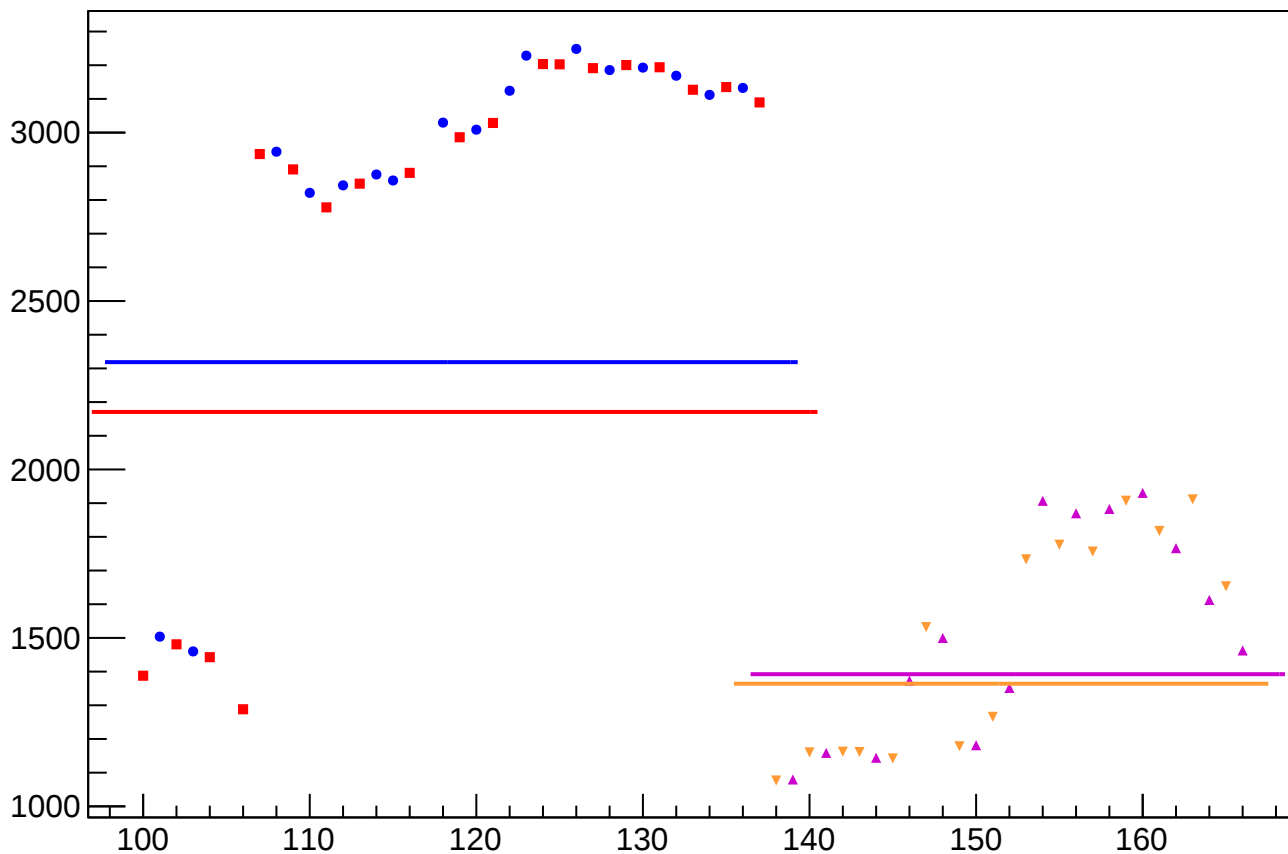
Right: 9.935 $\pm$ 0.638 χ^2 /NDF: 236.2/35

In: 7.727 $\pm$ 0.394 χ^2 /NDF: 419.7/30

Out: -2.062 $\pm$ 0.378 χ^2 /NDF: 355.0/33

All: 2.632 $\pm$ 0.273 χ^2 /NDF: 1096.6/64

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: 1392.307 $\pm$ 0.306 χ^2/NDF : 876545.5/13

Left: 1377.739 $\pm$ 0.213 χ^2/NDF : 1847004.4/28

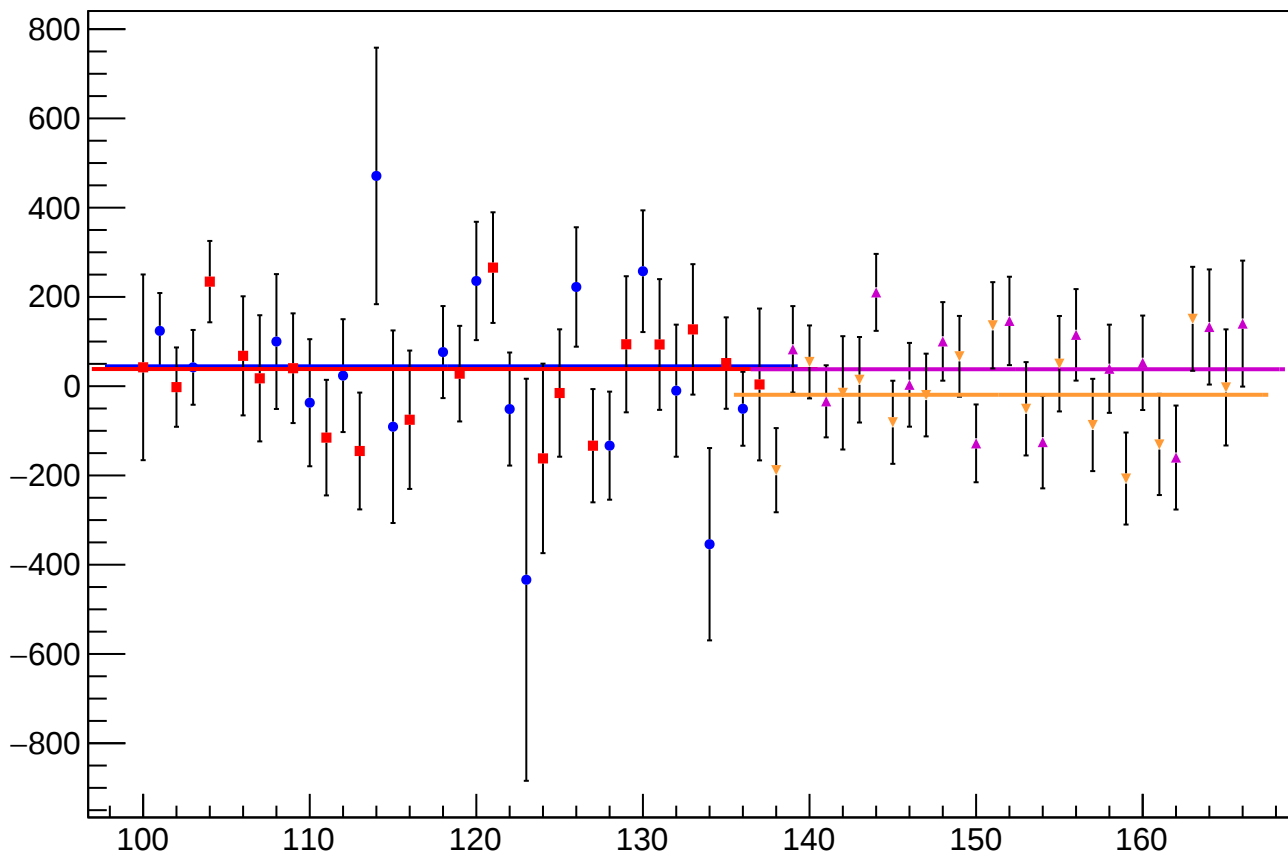
Right: 2238.439 $\pm$ 0.451 χ^2/NDF : 3188639.4/35

In: 1553.700 $\pm$ 0.278 χ^2/NDF : 3877846.2/30

Out: 1517.529 $\pm$ 0.267 χ^2/NDF : 4124079.2/33

All: 1534.873 $\pm$ 0.193 χ^2/NDF : 8010712.7/64

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484+/-30.432 χ^2/NDF : 19.1/16

Left Out: -19.238+/-26.073 χ^2/NDF : 15.5/14

Right Out: 38.425+/-29.435 χ^2/NDF : 15.7/18

Left In: 37.964+/-26.402 χ^2/NDF : 17.5/13

Left: 9.005+/-18.552 χ^2/NDF : 35.3/28

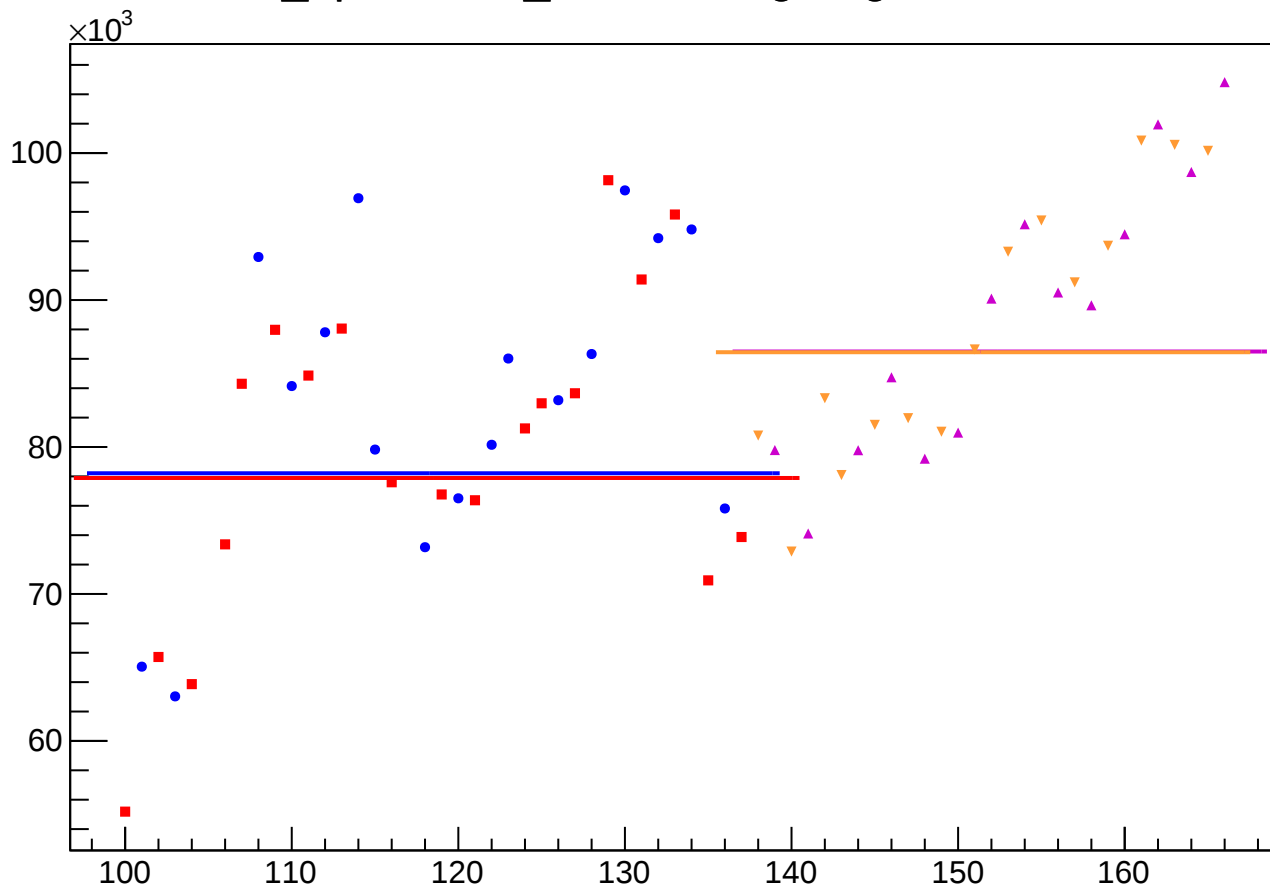
Right: 41.353+/-21.157 χ^2/NDF : 34.9/35

In: 40.764+/-19.943 χ^2/NDF : 36.6/30

Out: 6.114+/-19.517 χ^2/NDF : 33.4/33

All: 23.066+/-13.949 χ^2/NDF : 71.5/64

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: 86496.582 $\pm$ 18.669 χ^2/NDF : 211096.8/13

Left: 86472.778 $\pm$ 13.118 χ^2/NDF : 427840.2/28

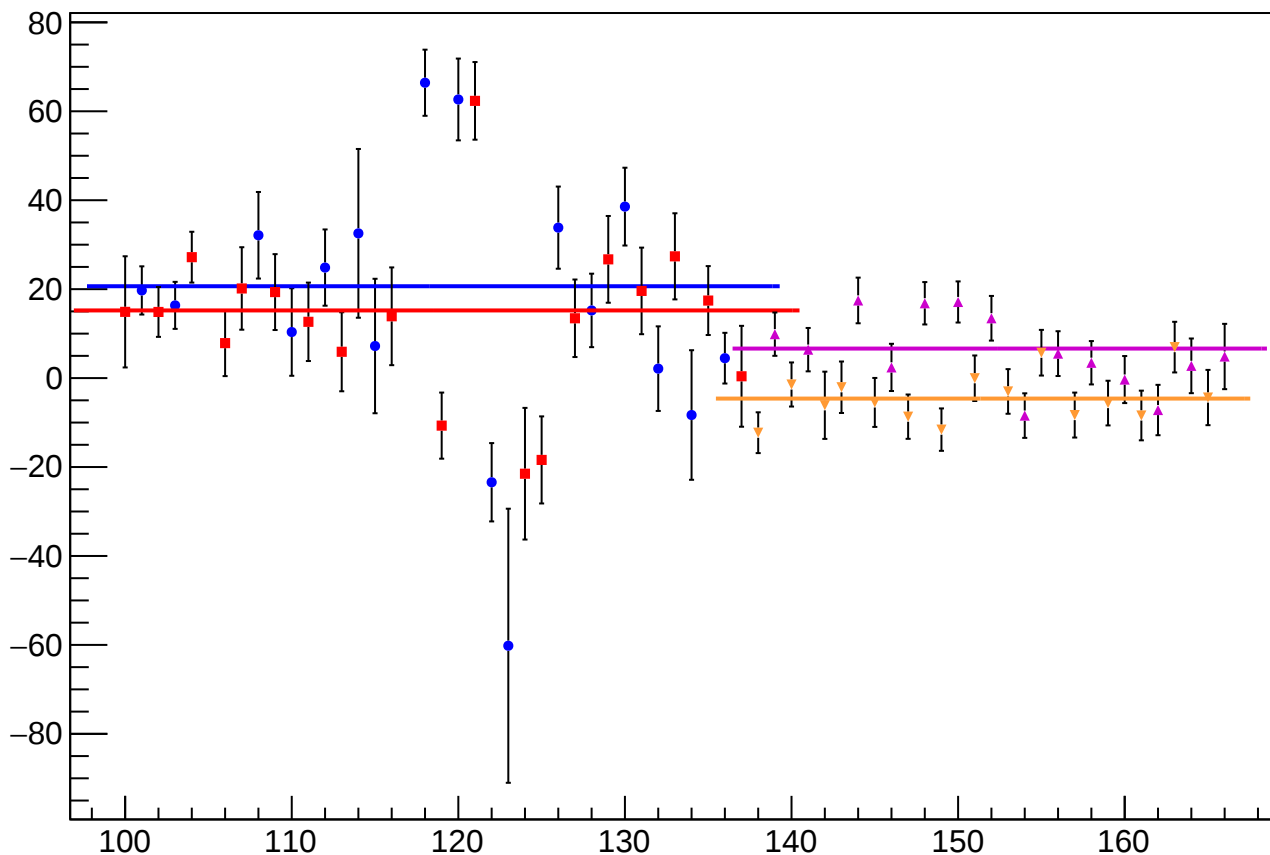
Right: 78047.137 $\pm$ 14.960 χ^2/NDF : 498141.9/35

In: 82939.245 $\pm$ 14.102 χ^2/NDF : 546702.1/30

Out: 82687.132 $\pm$ 13.801 χ^2/NDF : 558434.6/33

All: 82810.472 $\pm$ 9.863 χ^2/NDF : 1105299.9/66

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 ± 2.036 $\chi^2/\text{NDF}: 117.7/16$

Left Out: -4.606 ± 1.366 $\chi^2/\text{NDF}: 16.4/14$

Right Out: 15.216 ± 1.955 $\chi^2/\text{NDF}: 71.3/18$

Left In: 6.640 ± 1.385 $\chi^2/\text{NDF}: 34.8/13$

Left: 0.938 ± 0.973 $\chi^2/\text{NDF}: 84.6/28$

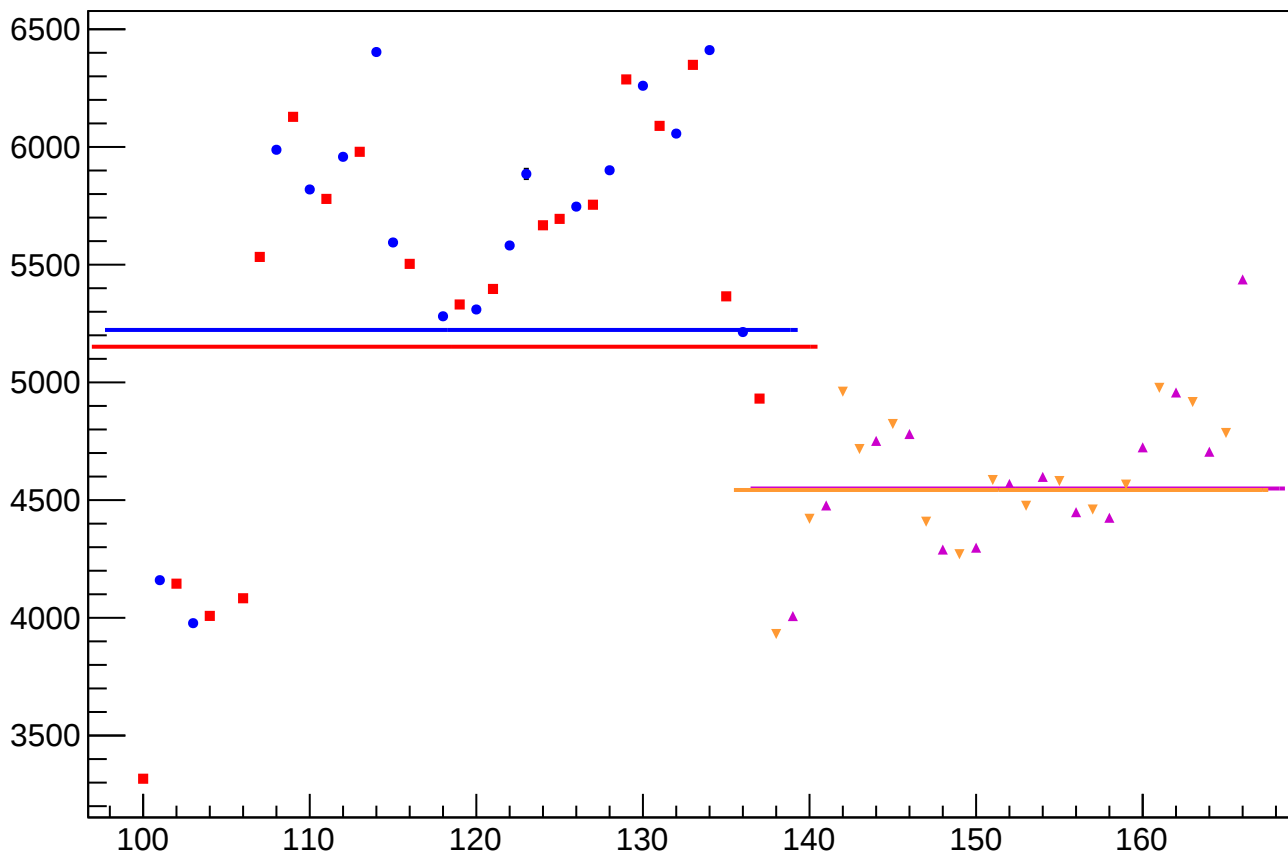
Right: 17.826 ± 1.410 $\chi^2/\text{NDF}: 192.8/35$

In: 11.075 ± 1.145 $\chi^2/\text{NDF}: 184.9/30$

Out: 1.896 ± 1.120 $\chi^2/\text{NDF}: 156.8/33$

All: 6.382 ± 0.801 $\chi^2/\text{NDF}: 374.5/64$

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: 4549.283 $\pm$ 0.979 χ^2 /NDF:89342.8/13

Left: 4546.103 $\pm$ 0.688 χ^2 /NDF: 172124.7/28

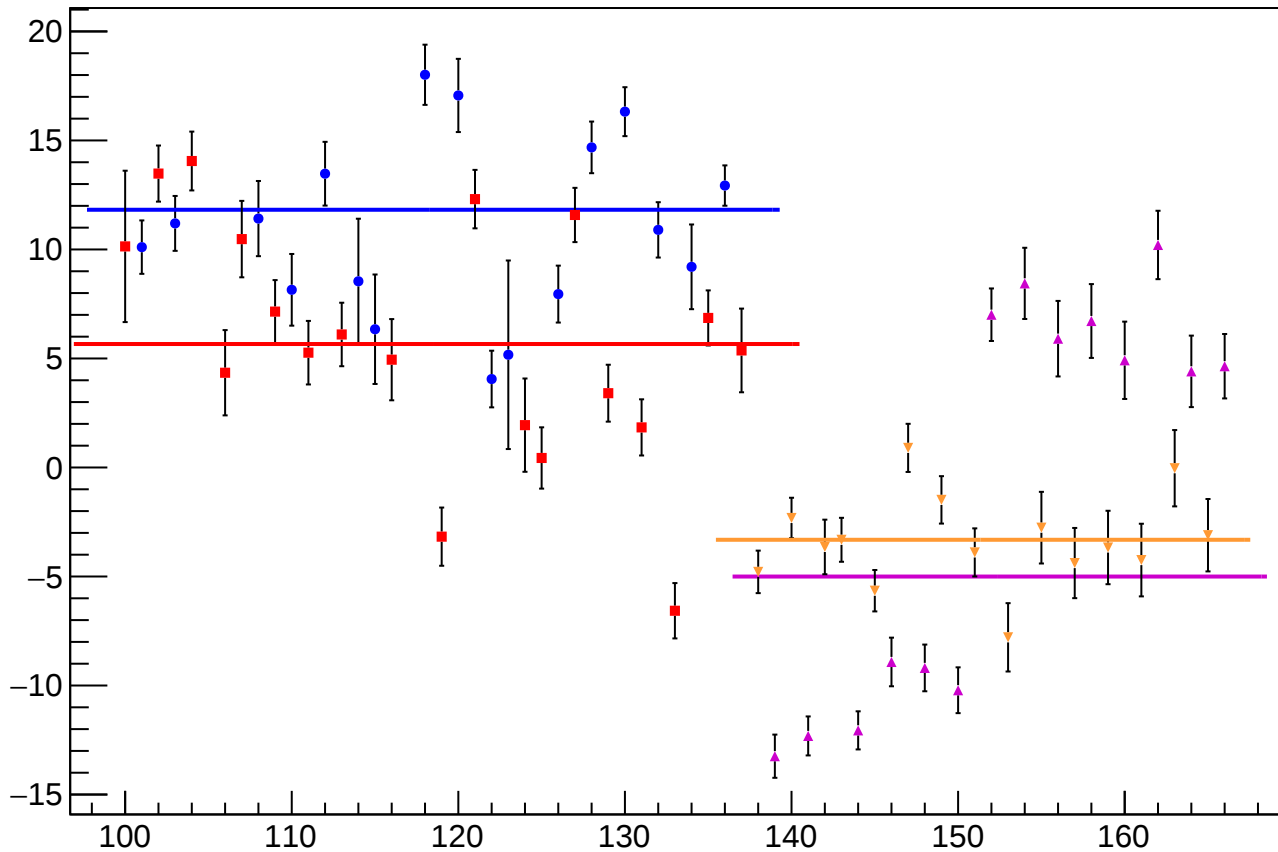
Right: 5185.701 $\pm$ 0.997 χ^2 /NDF: 701457.6/35

In: 4762.381 $\pm$ 0.810 χ^2 /NDF:551456.0/30

Out: 4742.634 $\pm$ 0.792 χ^2 /NDF:600689.9/33

All: 4752.284 $\pm$ 0.566 χ^2 /NDF: 1152450.0/64

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: -5.002 ± 0.325 $\chi^2/\text{NDF}: 709.1/13$

Left: -4.136 ± 0.227 $\chi^2/\text{NDF}: 762.7/28$

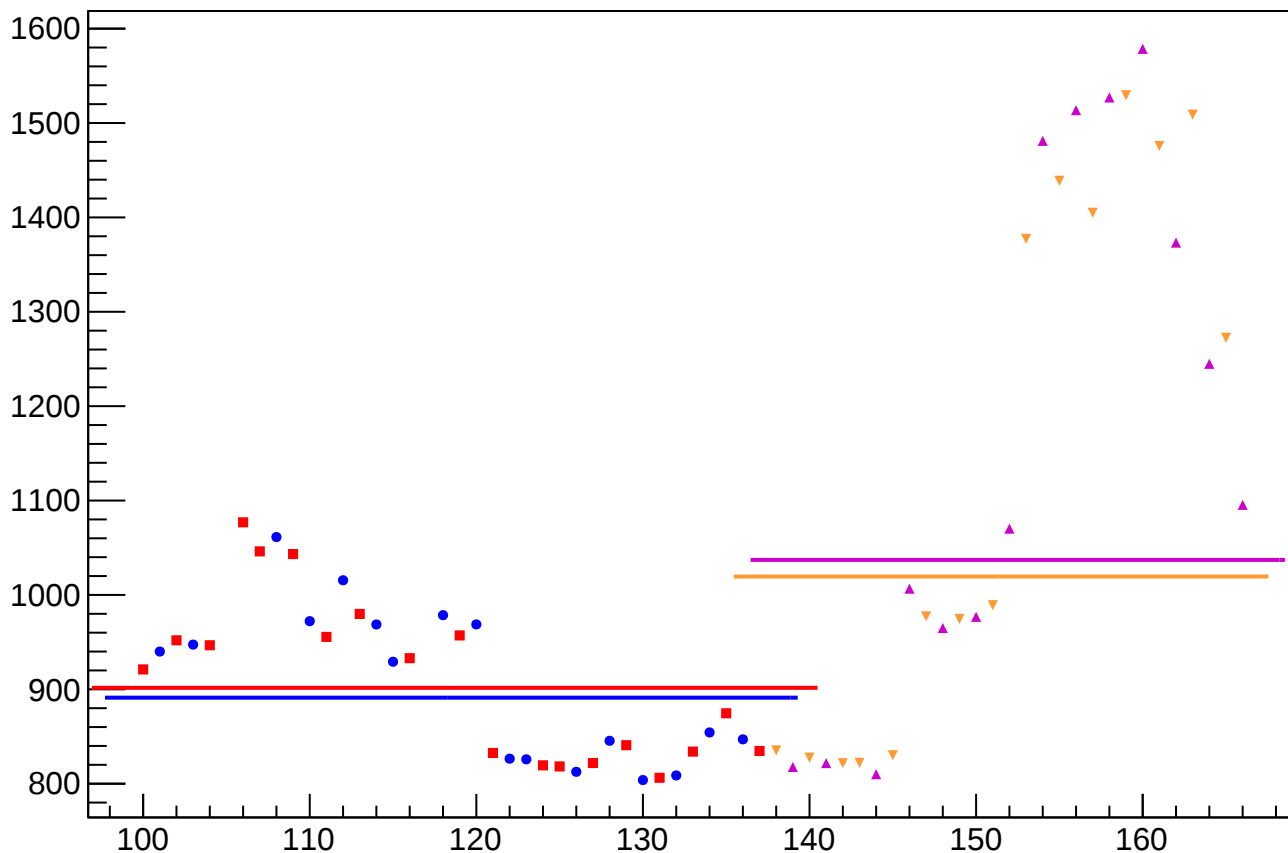
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.923 ± 0.236 $\chi^2/\text{NDF}: 2087.4/30$

Out: 0.869 ± 0.231 $\chi^2/\text{NDF}: 715.7/33$

All: 1.872 ± 0.165 $\chi^2/\text{NDF}: 2841.7/64$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149+/-0.244 χ^2/NDF : 101659.1/16

Left Out: 1019.509+/-0.224 χ^2/NDF :1256269.5/14

Right Out: 901.588+/-0.239 χ^2/NDF : 114590.8/18

Left In: 1037.108+/-0.230 χ^2/NDF :1147944.8/13

Left: 1028.064+/-0.160 χ^2/NDF : 2407225.4/28

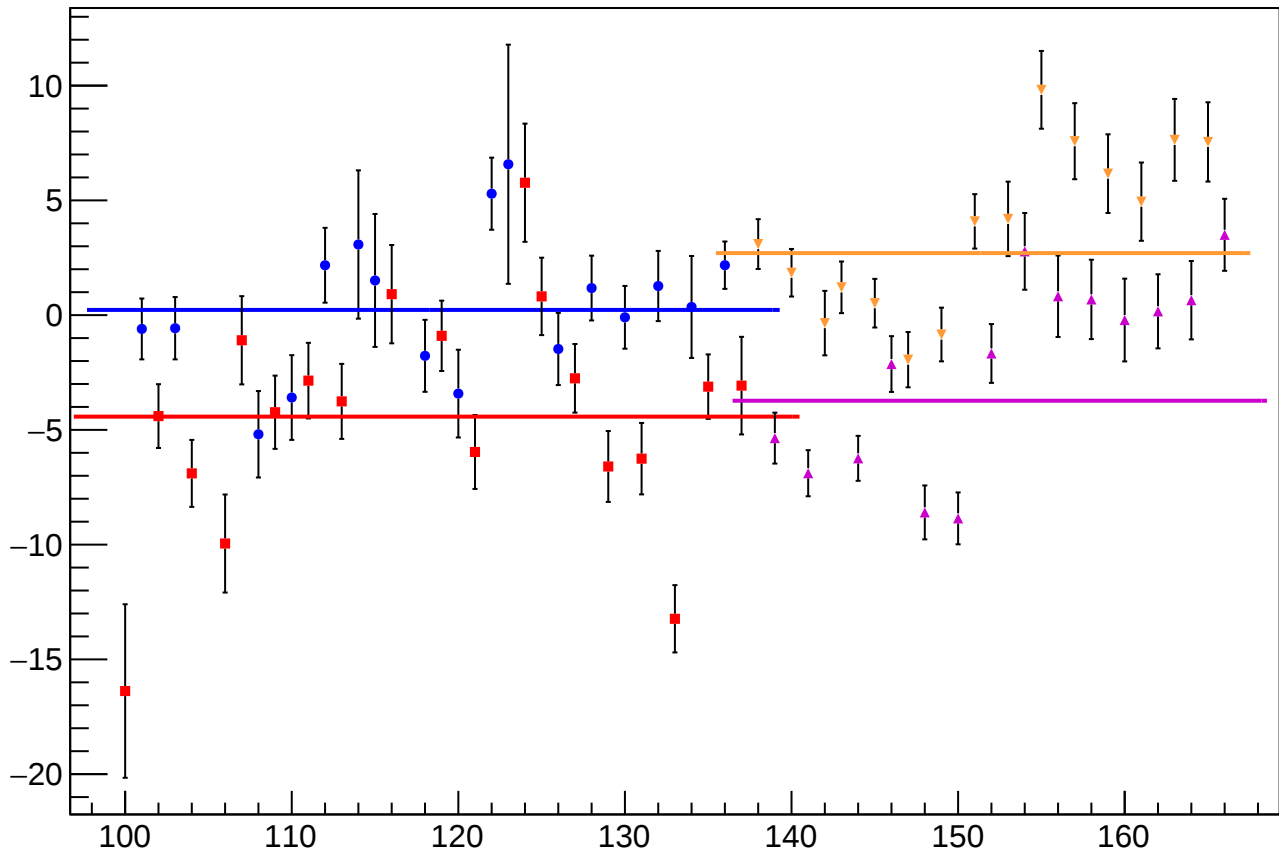
Right: 896.461+/-0.171 χ^2/NDF : 217184.3/35

In: 968.348+/-0.167 χ^2/NDF :1439492.1/30

Out: 964.548+/-0.163 χ^2/NDF :1500476.2/33

All: 966.404+/-0.117 χ^2/NDF : 2940232.5/64

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 $\pm$ 0.395 χ^2/NDF : 38.5/16

Left Out: 2.703 $\pm$ 0.342 χ^2/NDF :85.4/14

Right Out: -4.423 $\pm$ 0.387 χ^2/NDF : 103.3/18

Left In: -3.730 $\pm$ 0.352 χ^2/NDF :126.3/13

Left: -0.429 $\pm$ 0.245 χ^2/NDF : 383.5/28

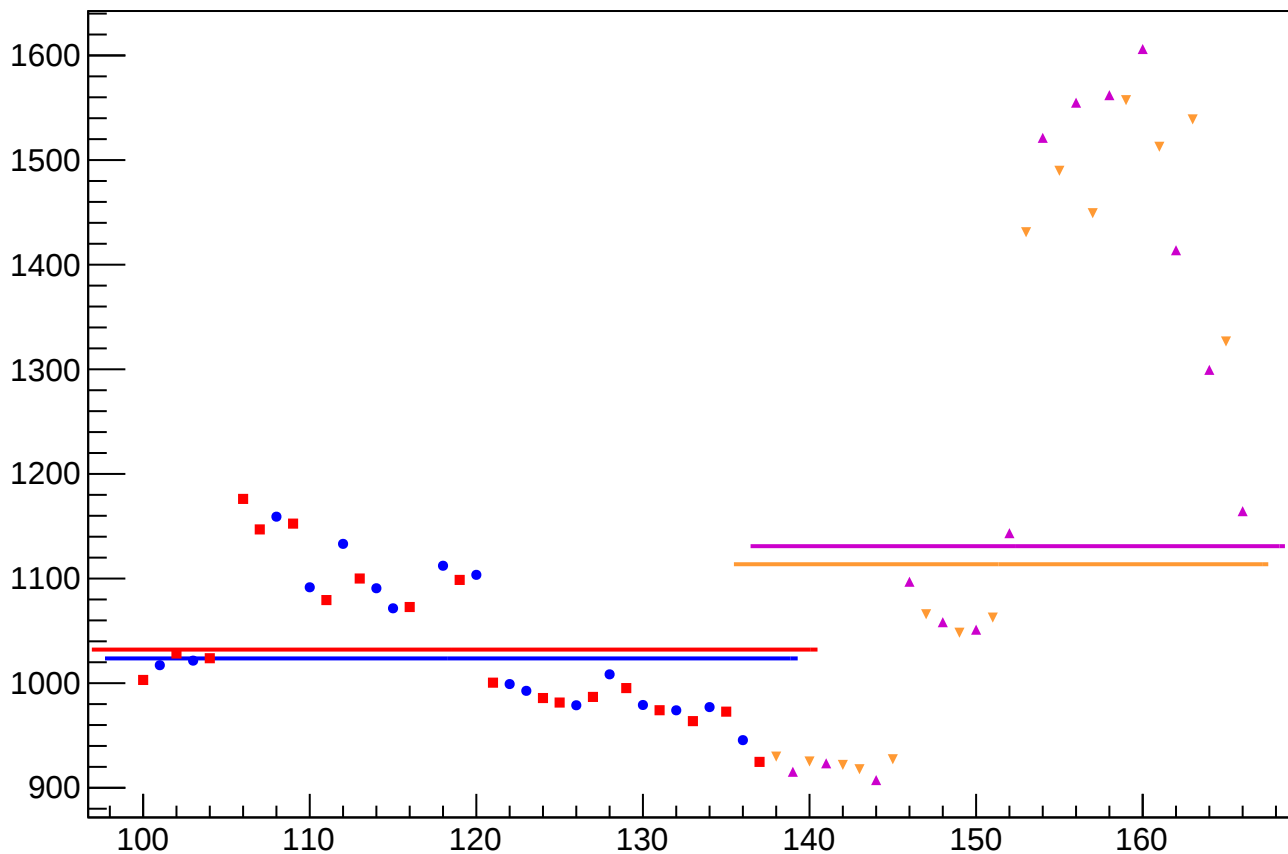
Right: -2.147 $\pm$ 0.276 χ^2/NDF : 212.6/35

In: -1.981 $\pm$ 0.263 χ^2/NDF :220.9/30

Out: -0.429 $\pm$ 0.256 χ^2/NDF :379.0/33

All: -1.187 $\pm$ 0.183 χ^2/NDF : 617.7/64

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655+/-0.279 χ^2/NDF : 52373.8/16

Left Out: 1113.685+/-0.242 χ^2/NDF : 940945.6/14

Right Out: 1032.107+/-0.273 χ^2/NDF : 59391.6/18

Left In: 1130.951+/-0.249 χ^2/NDF : 852541.8/13

Left: 1122.091+/-0.173 χ^2/NDF : 1795962.0/28

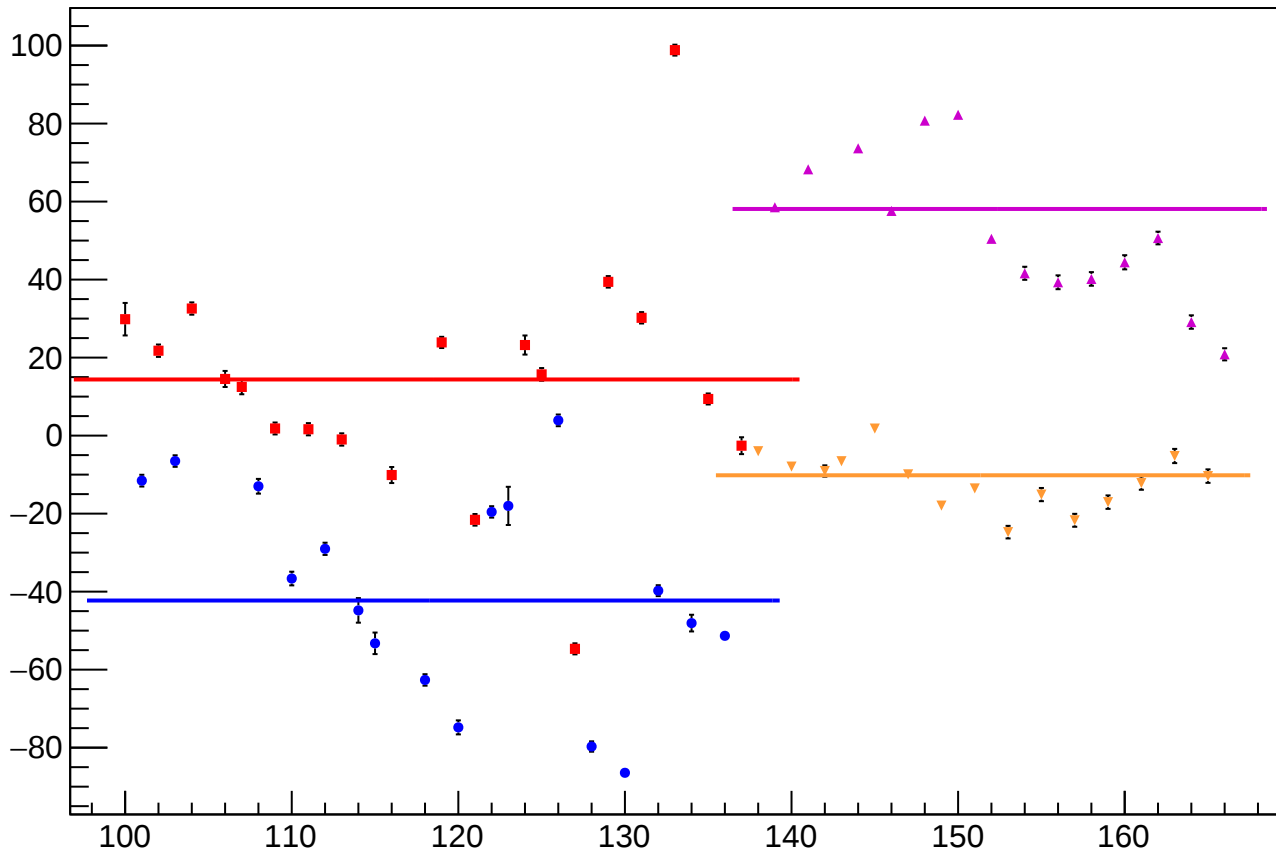
Right: 1027.970+/-0.195 χ^2/NDF : 112233.0/35

In: 1083.516+/-0.186 χ^2/NDF : 987253.4/30

Out: 1077.825+/-0.181 χ^2/NDF : 1050215.0/33

All: 1080.603+/-0.130 χ^2/NDF : 2037949.3/64

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 $\chi^2/\text{NDF}: 5126.8/16$

Left Out: -10.170 ± 0.350 $\chi^2/\text{NDF}: 375.1/14$

Right Out: 14.393 ± 0.378 $\chi^2/\text{NDF}: 7669.8/18$

Left In: 58.107 ± 0.361 $\chi^2/\text{NDF}: 2316.7/13$

Left: 22.929 ± 0.251 $\chi^2/\text{NDF}: 21128.0/28$

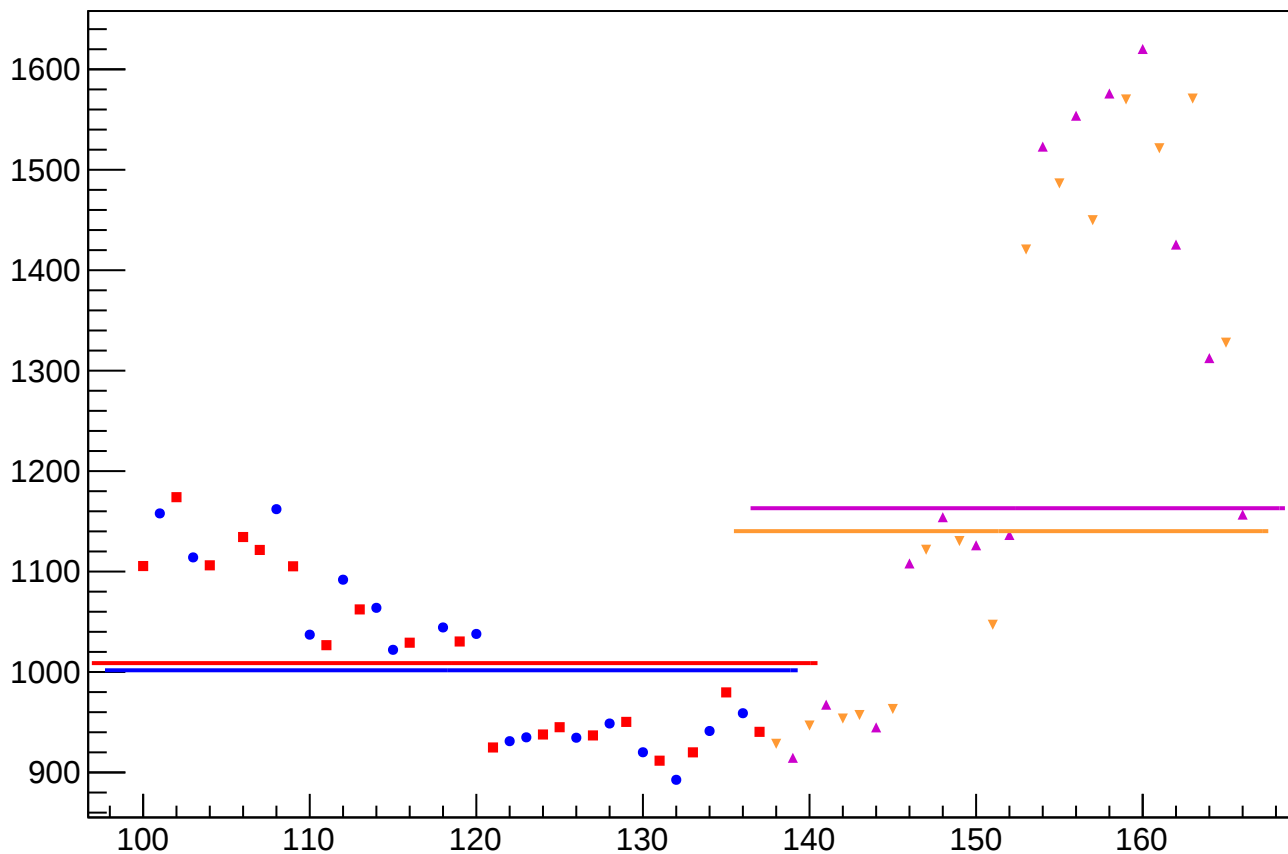
Right: -13.301 ± 0.271 $\chi^2/\text{NDF}: 23754.3/35$

In: 11.423 ± 0.264 $\chi^2/\text{NDF}: 43415.0/30$

Out: 1.157 ± 0.257 $\chi^2/\text{NDF}: 10314.6/33$

All: 6.153 ± 0.184 $\chi^2/\text{NDF}: 54506.0/64$

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: 1163.066 $\pm$ 0.255 χ^2 /NDF: 762152.2/13

Left: 1151.302 $\pm$ 0.178 χ^2 /NDF: 1627245.8/28

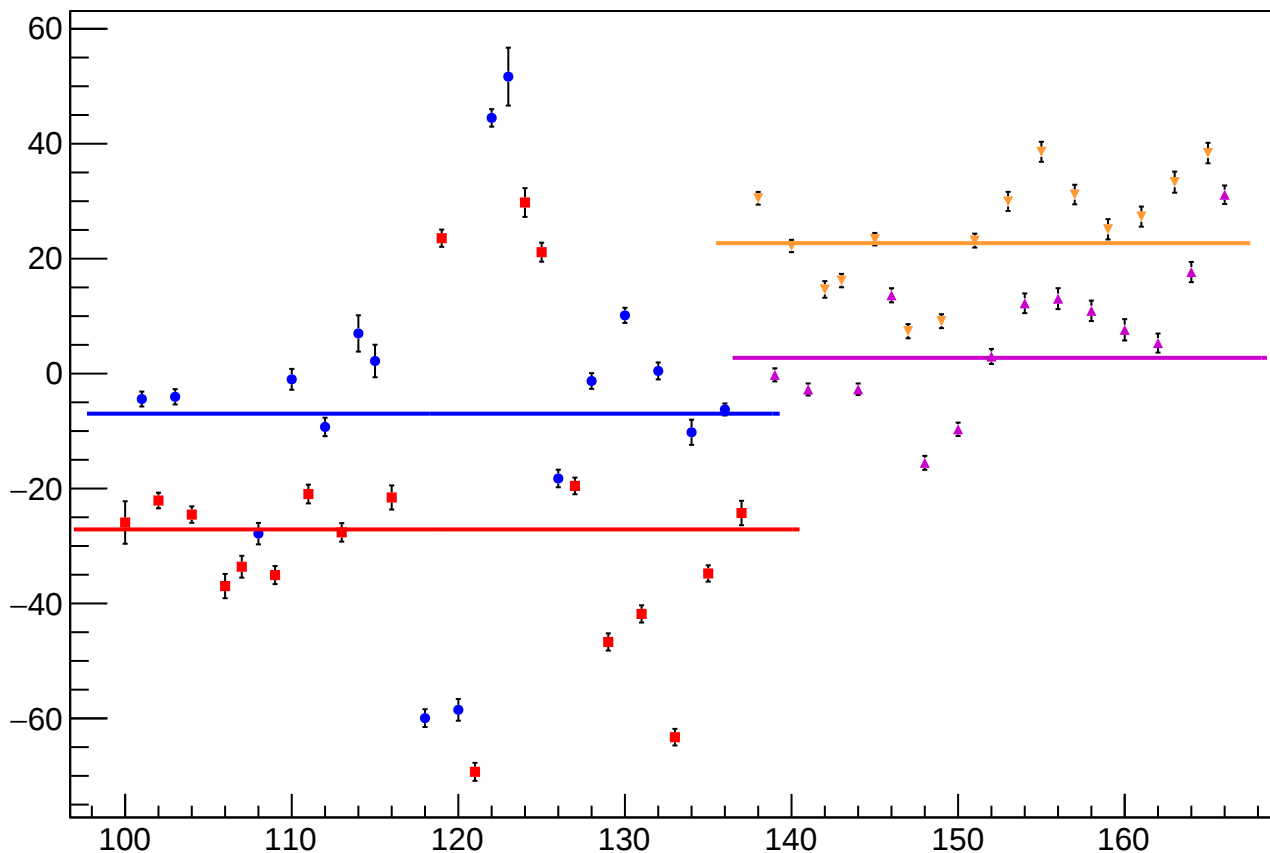
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1088.026 $\pm$ 0.187 χ^2 /NDF: 1043514.4/30

Out: 1079.645 $\pm$ 0.182 χ^2 /NDF: 1086201.7/33

All: 1083.723 $\pm$ 0.130 χ^2 /NDF: 2130751.0/64

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: 2.740 ± 0.362 χ^2/NDF : 954.7/13

Left: 12.992 ± 0.253 χ^2/NDF : 3155.0/28

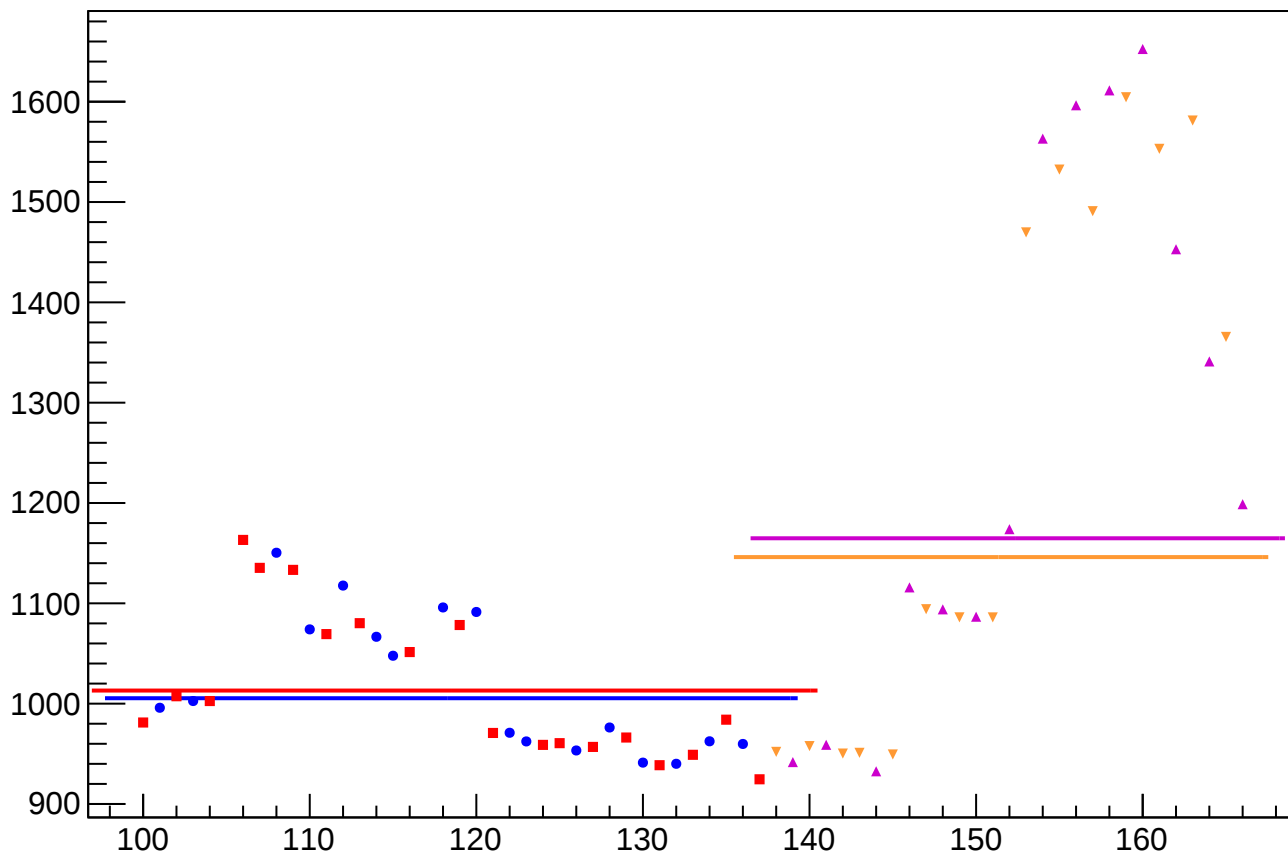
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: -1.782 ± 0.265 χ^2/NDF : 4926.7/30

Out: -0.356 ± 0.258 χ^2/NDF : 14174.6/33

All: -1.051 ± 0.185 χ^2/NDF : 19116.1/64

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: 1164.838 $\pm$ 0.256 χ^2 /NDF: 844342.9/13

Left: 1155.208 $\pm$ 0.179 χ^2 /NDF: 1783192.1/28

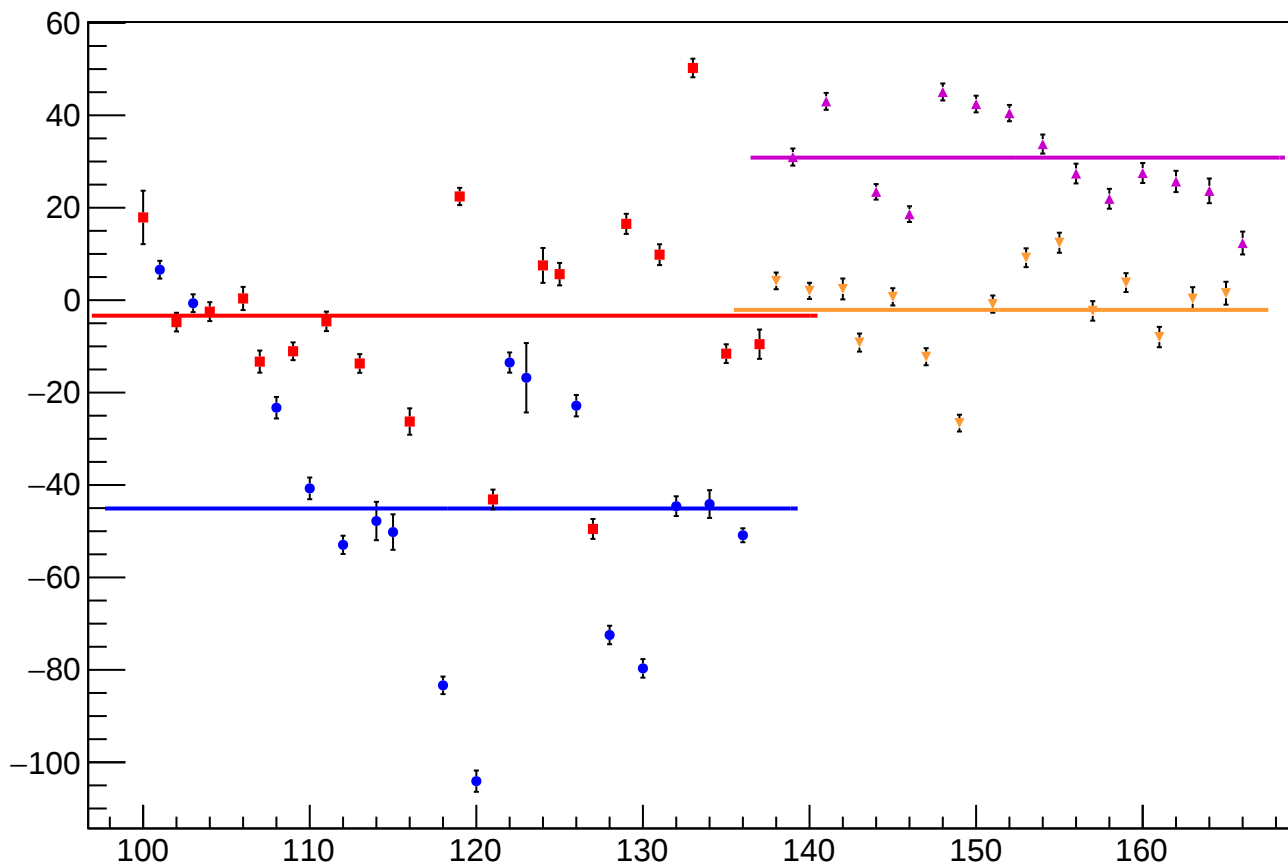
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

In: 1090.631 $\pm$ 0.187 χ^2 /NDF: 1079472.6/30

Out: 1084.513 $\pm$ 0.183 χ^2 /NDF: 1131278.5/33

All: 1087.497 $\pm$ 0.131 χ^2 /NDF: 2211298.6/64

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: 30.846 ± 0.527 χ^2/NDF : 338.7/13

Left: 14.106 ± 0.370 χ^2/NDF : 2665.3/28

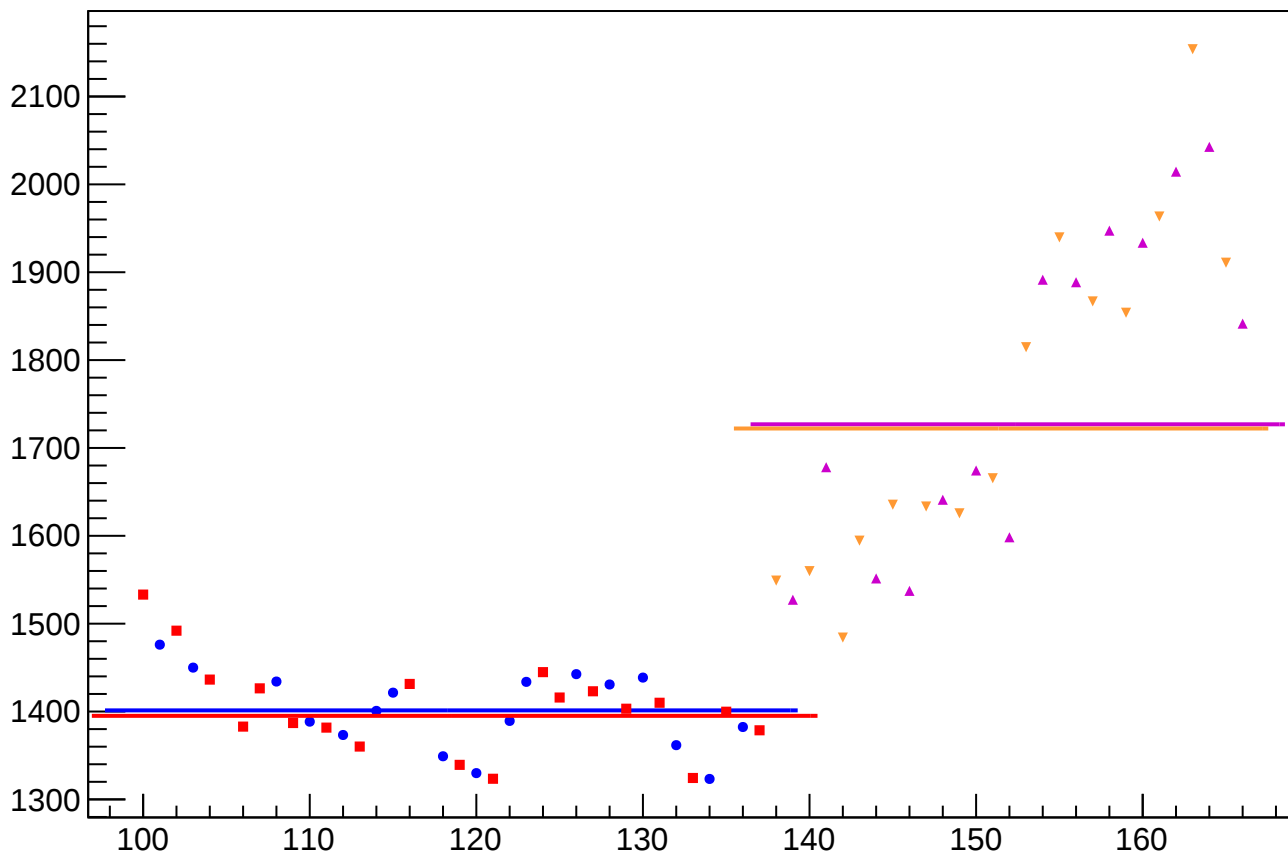
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -6.247 ± 0.377 χ^2/NDF : 13699.8/30

Out: -2.728 ± 0.368 χ^2/NDF : 2352.6/33

All: -4.444 ± 0.263 χ^2/NDF : 16097.0/64

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 $\pm$ 0.382 χ^2/NDF : 12852.1/16

Left Out: 1722.134 $\pm$ 0.367 χ^2/NDF : 220273.7/14

Right Out: 1395.105 $\pm$ 0.369 χ^2/NDF : 15520.0/18

Left In: 1726.908 $\pm$ 0.373 χ^2/NDF : 215092.4/13

Left: 1724.483 $\pm$ 0.262 χ^2/NDF : 435449.4/28

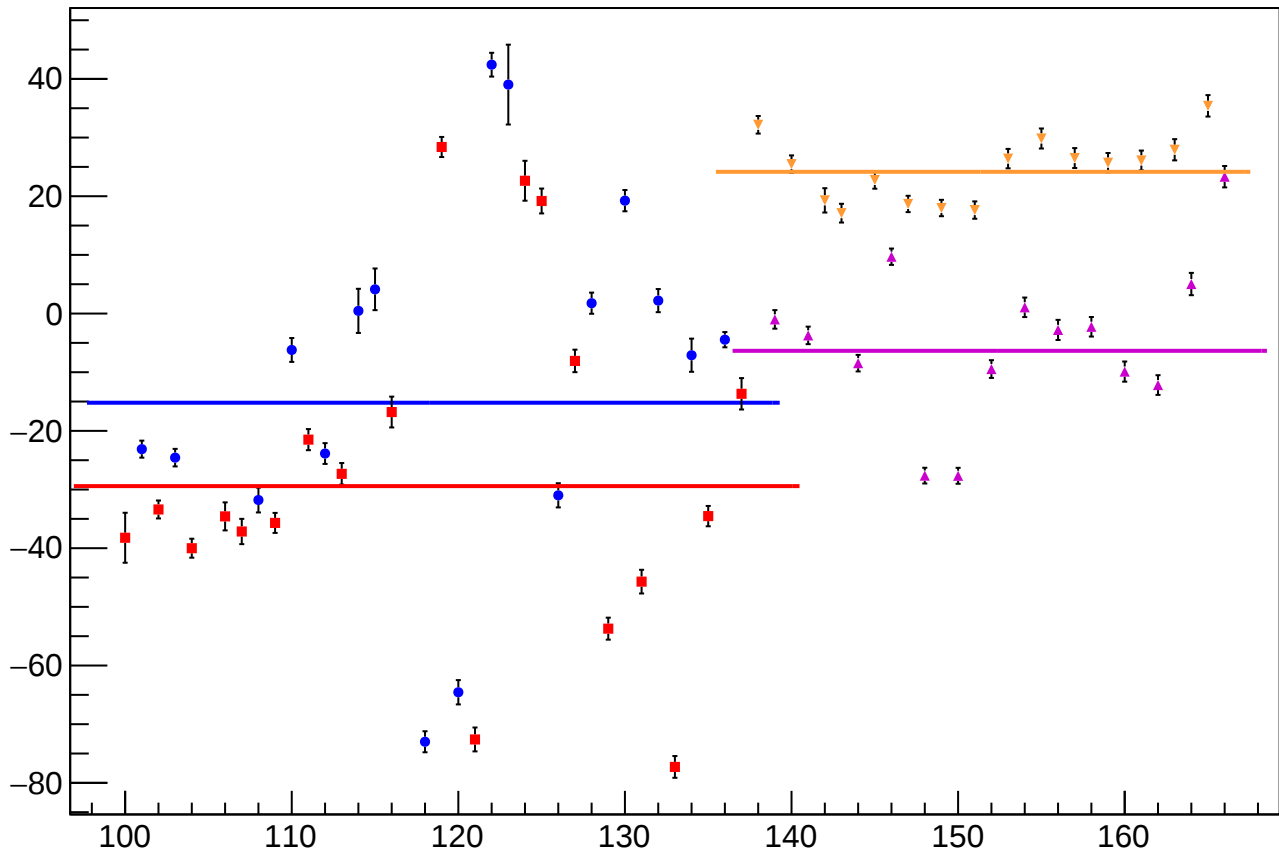
Right: 1398.102 $\pm$ 0.265 χ^2/NDF : 28508.5/35

In: 1567.841 $\pm$ 0.267 χ^2/NDF : 600268.7/30

Out: 1559.490 $\pm$ 0.260 χ^2/NDF : 630656.2/33

All: 1563.562 $\pm$ 0.186 χ^2/NDF : 1231427.1/64

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: -6.353 ± 0.418 $\chi^2/\text{NDF}: 997.6/13$

Left: 9.041 ± 0.294 $\chi^2/\text{NDF}: 3859.4/28$

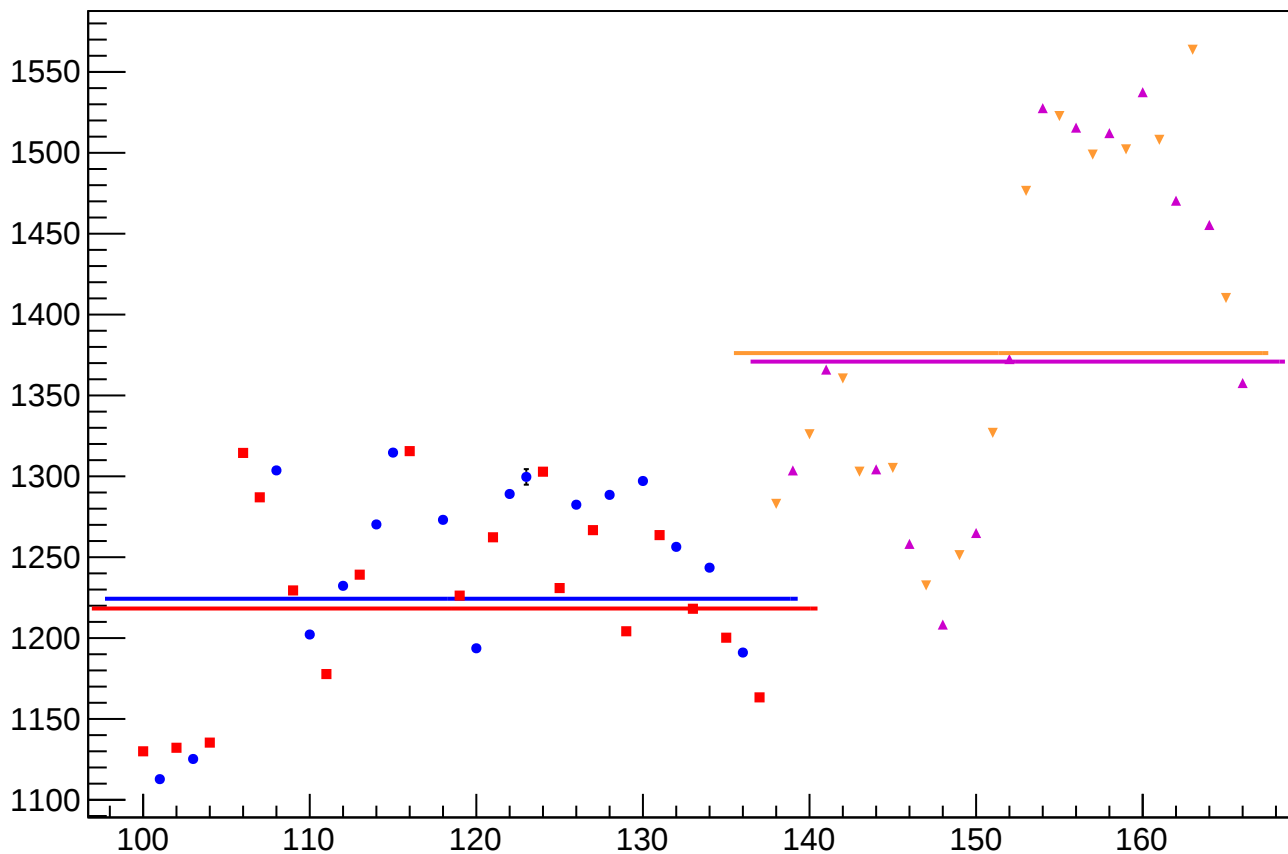
Right: -22.553 ± 0.328 $\chi^2/\text{NDF}: 7376.3/35$

In: -10.237 ± 0.313 $\chi^2/\text{NDF}: 4557.2/30$

Out: -0.032 ± 0.307 $\chi^2/\text{NDF}: 11279.3/33$

All: -5.032 ± 0.219 $\chi^2/\text{NDF}: 16379.4/64$

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: 1370.921+/-0.295 χ^2/NDF :138882.6/13

Left: 1373.581+/-0.208 χ^2/NDF : 275983.6/28

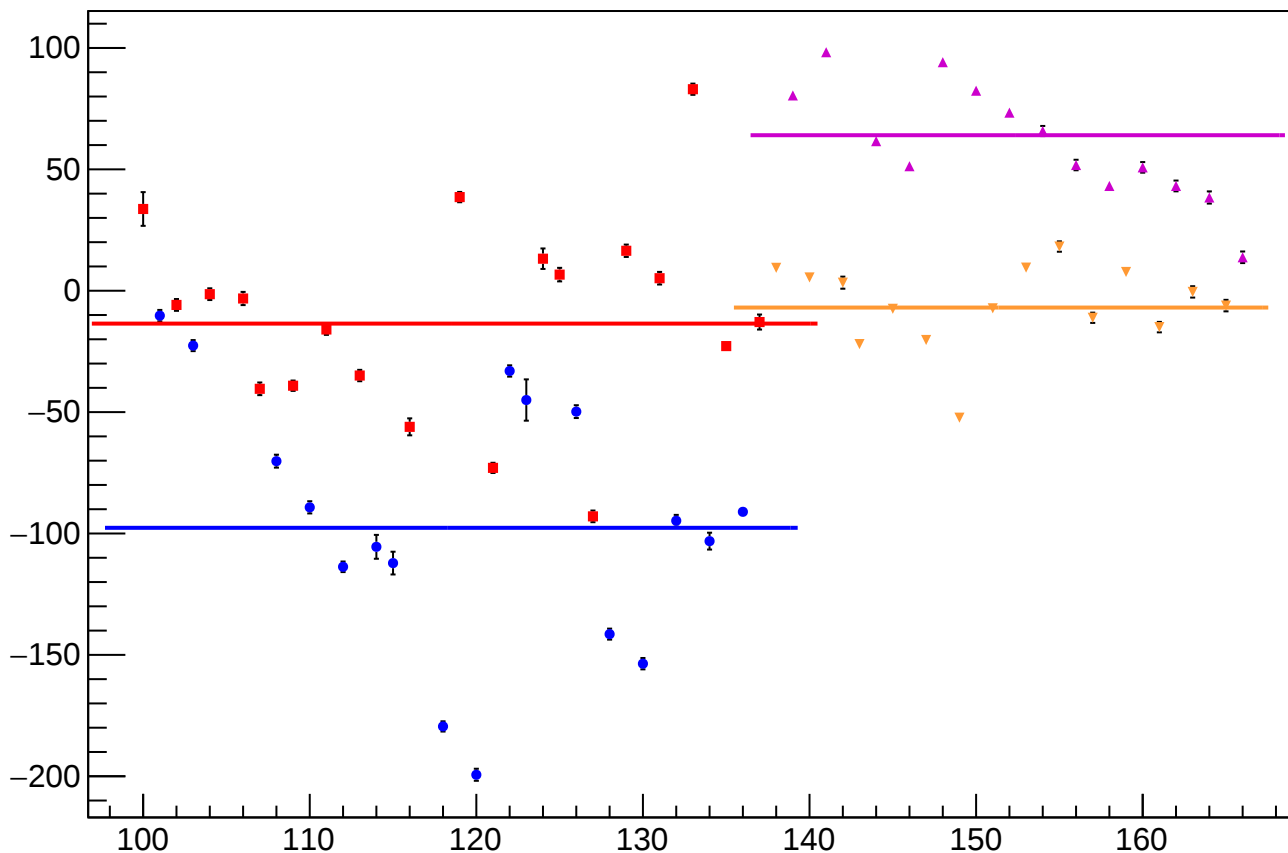
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1306.560+/-0.221 χ^2/NDF :285843.2/30

Out: 1304.882+/-0.217 χ^2/NDF :295950.3/33

All: 1305.704+/-0.155 χ^2/NDF : 581822.8/64

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: 64.064 ± 0.529 χ^2/NDF : 1685.6/13

Left: 27.914 ± 0.370 χ^2/NDF : 12012.7/28

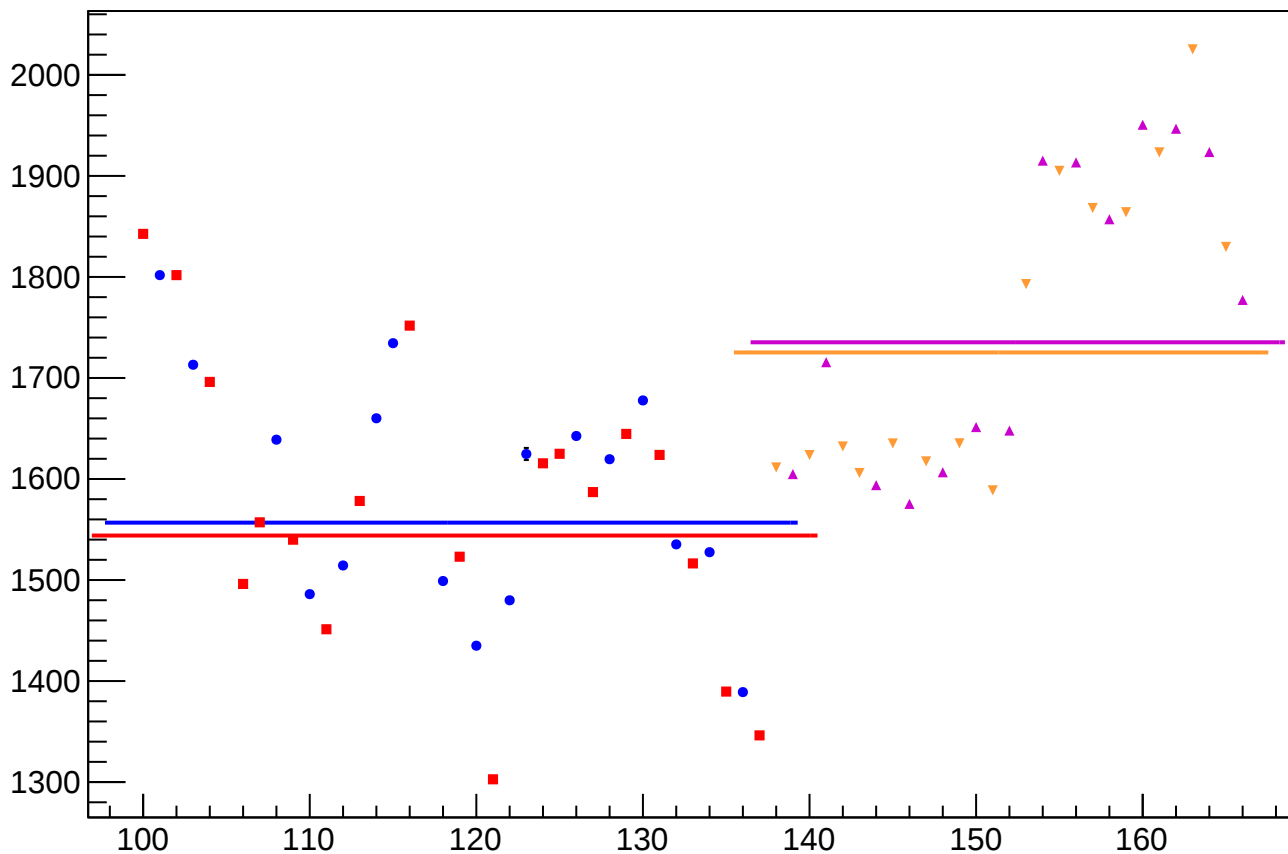
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: -6.468 ± 0.397 χ^2/NDF : 50407.2/30

Out: -9.872 ± 0.387 χ^2/NDF : 6351.4/33

All: -8.215 ± 0.277 χ^2/NDF : 56796.3/64

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: 1735.319 $\pm$ 0.374 χ^2 /NDF:143834.4/13

Left: 1730.203 $\pm$ 0.262 χ^2 /NDF: 284467.2/28

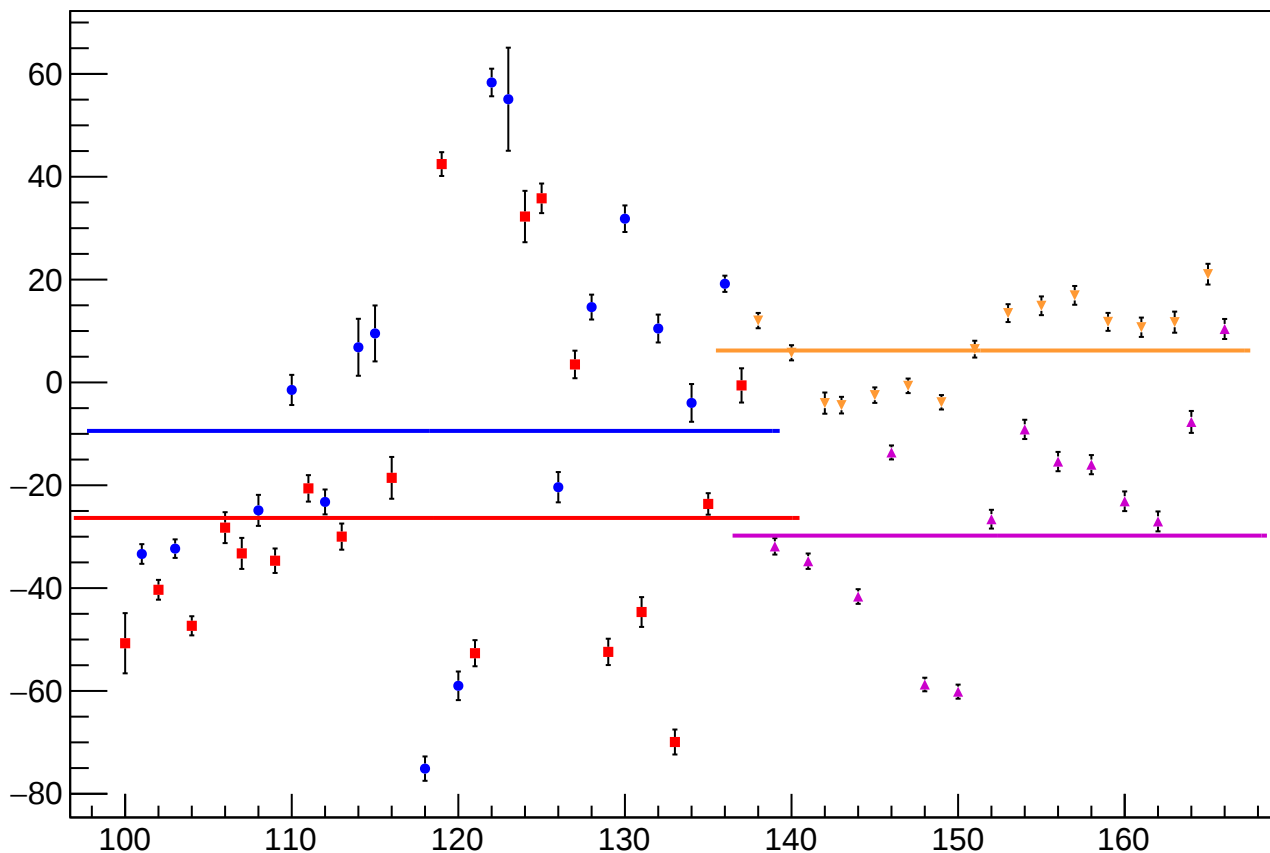
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1657.461 $\pm$ 0.281 χ^2 /NDF:324779.9/30

Out: 1644.553 $\pm$ 0.273 χ^2 /NDF:349311.6/33

All: 1650.835 $\pm$ 0.196 χ^2 /NDF: 675176.2/64

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: -29.791+/-0.441 χ^2/NDF : 1979.0/13

Left: -11.411+/-0.308 χ^2/NDF : 5732.3/28

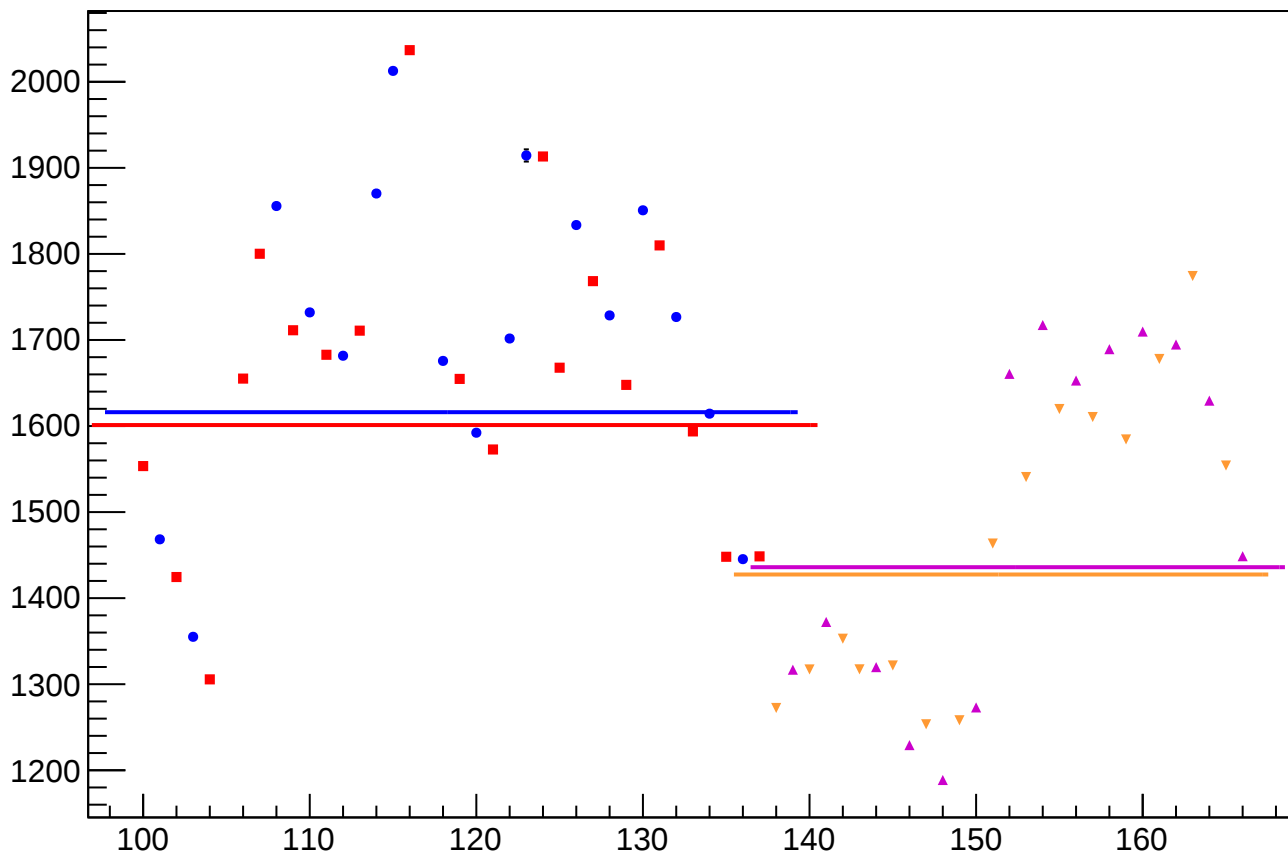
Right: -18.216+/-0.434 χ^2/NDF : 5775.3/35

In: -23.053+/-0.360 χ^2/NDF : 5610.2/30

Out: -4.818+/-0.351 χ^2/NDF : 4745.6/33

All: -13.690+/-0.251 χ^2/NDF : 11670.8/64

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094+/-0.443 χ^2/NDF : 149596.3/16

Left Out: 1427.482+/-0.305 χ^2/NDF : 282487.4/14

Right Out: 1601.134+/-0.426 χ^2/NDF : 153651.5/18

Left In: 1435.970+/-0.311 χ^2/NDF : 404741.9/13

Left: 1431.637+/-0.218 χ^2/NDF : 687608.4/28

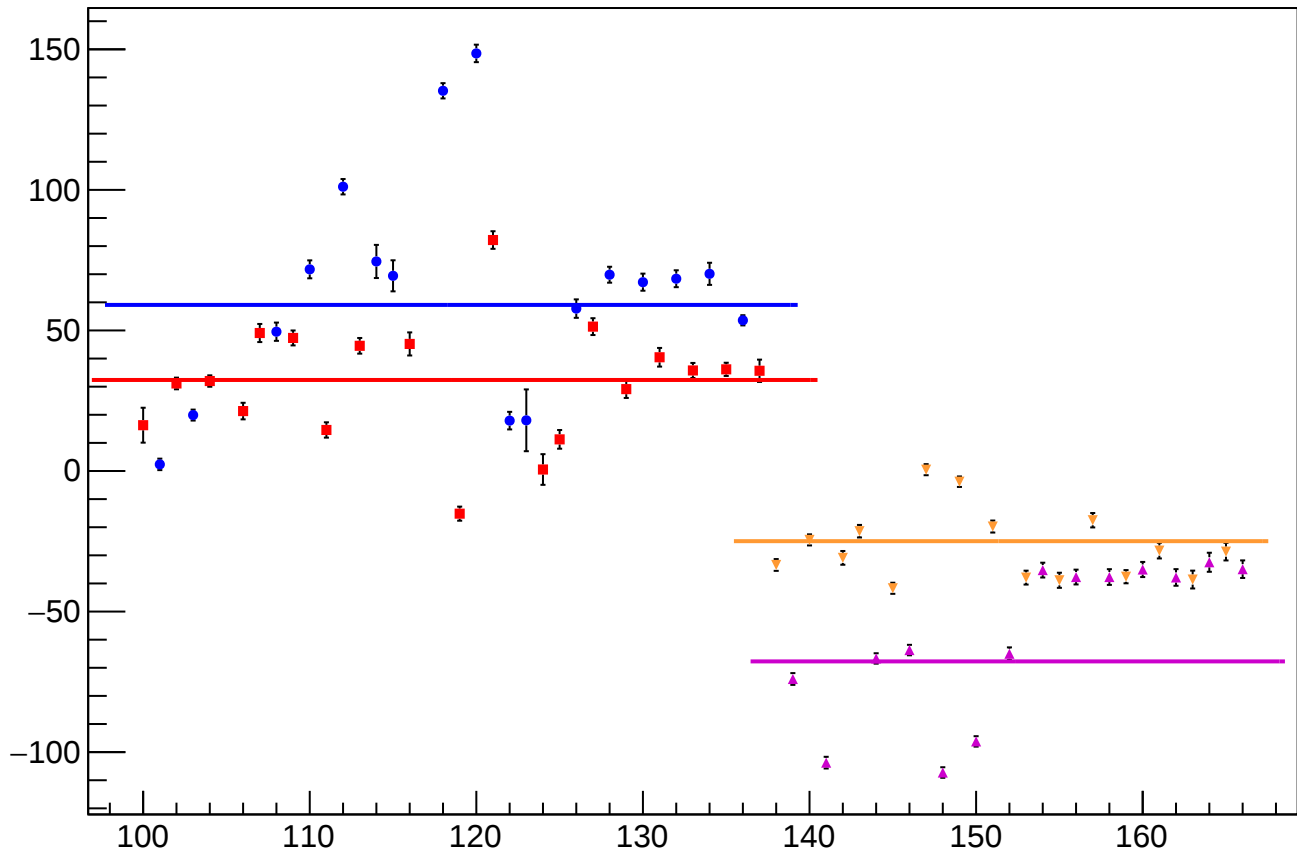
Right: 1608.326+/-0.307 χ^2/NDF : 303840.0/35

In: 1495.567+/-0.255 χ^2/NDF : 664976.5/30

Out: 1486.284+/-0.248 χ^2/NDF : 545915.2/33

All: 1490.800+/-0.178 χ^2/NDF : 1211573.2/64

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -24.958 ± 0.594 χ^2/NDF : 510.4/14

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -67.728 ± 0.612 χ^2/NDF : 1858.3/13

Left: -45.688 ± 0.426 χ^2/NDF : 4883.6/28

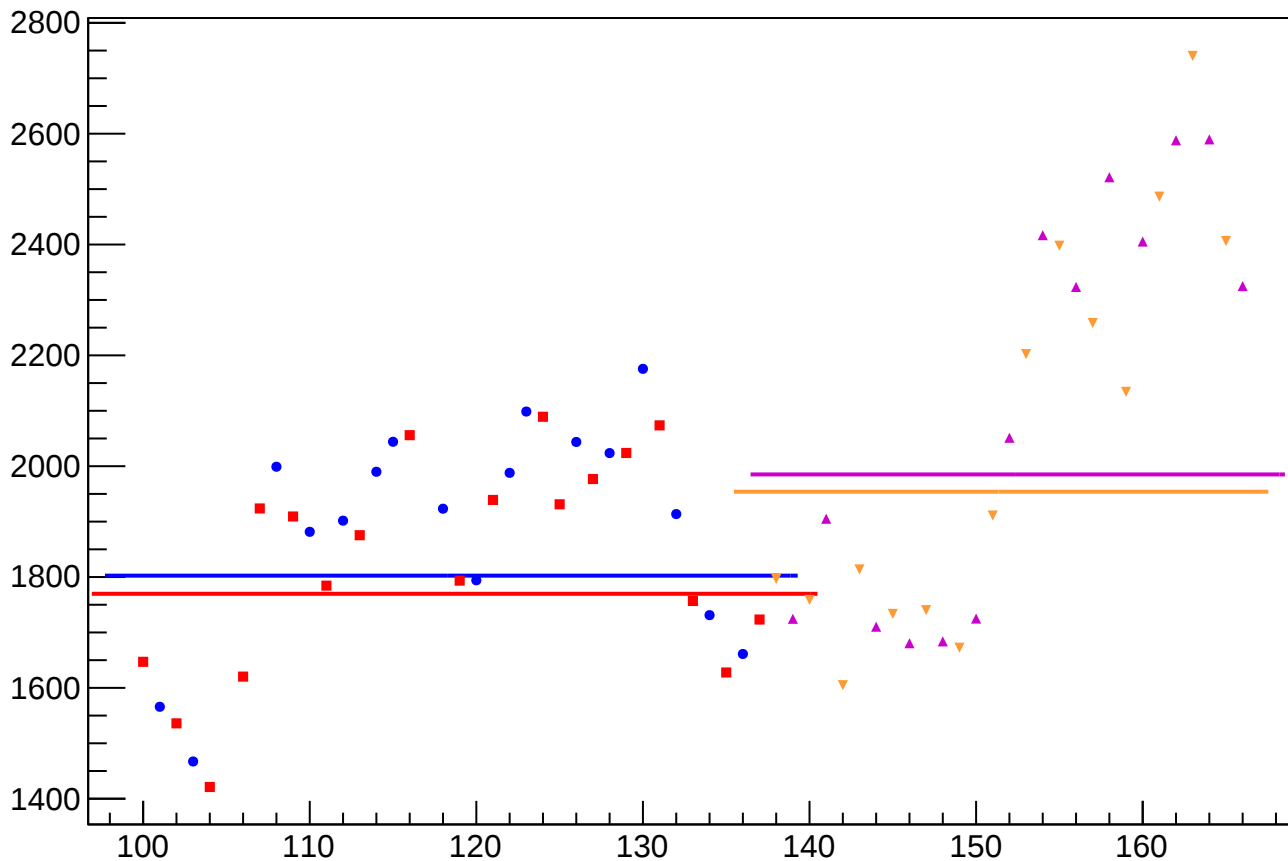
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -12.719 ± 0.461 χ^2/NDF : 23762.3/30

Out: 0.414 ± 0.443 χ^2/NDF : 5528.5/33

All: -5.901 ± 0.319 χ^2/NDF : 29712.7/64

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524 $\pm$ 0.495 χ^2 /NDF: 184069.0/16

Left Out: 1953.973 $\pm$ 0.420 χ^2 /NDF: 526437.5/14

Right Out: 1769.772 $\pm$ 0.471 χ^2 /NDF: 177893.4/18

Left In: 1985.154 $\pm$ 0.433 χ^2 /NDF: 603841.1/13

Left: 1969.086 $\pm$ 0.301 χ^2 /NDF: 1132951.9/28

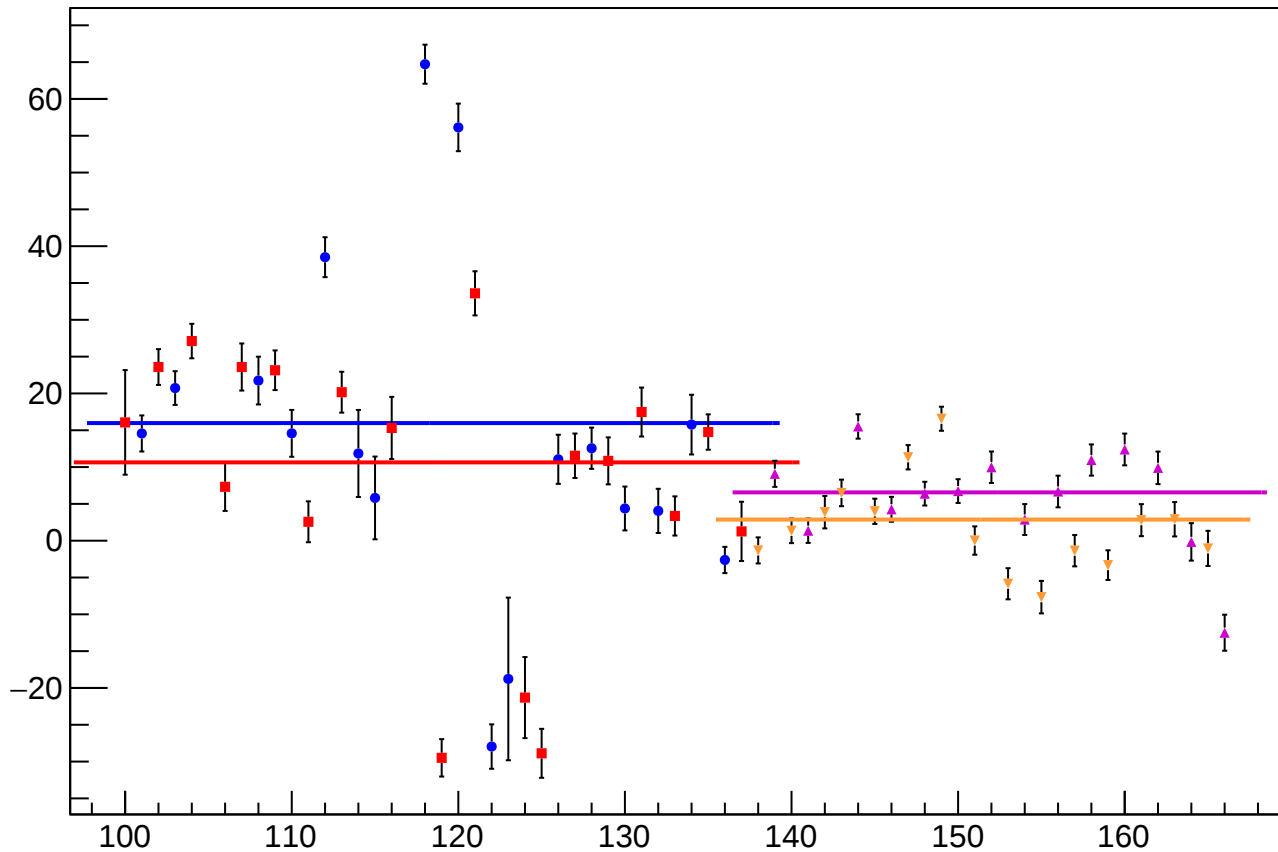
Right: 1785.358 $\pm$ 0.341 χ^2 /NDF: 364260.7/35

In: 1905.931 $\pm$ 0.326 χ^2 /NDF: 865111.4/30

Out: 1872.467 $\pm$ 0.313 χ^2 /NDF: 789501.6/33

All: 1888.557 $\pm$ 0.226 χ^2 /NDF: 1660091.7/64

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 $\chi^2/\text{NDF}: 938.4/16$

Left Out: 2.870 ± 0.500 $\chi^2/\text{NDF}: 165.5/14$

Right Out: 10.638 ± 0.693 $\chi^2/\text{NDF}: 642.1/18$

Left In: 6.562 ± 0.514 $\chi^2/\text{NDF}: 130.2/13$

Left: 4.665 ± 0.358 $\chi^2/\text{NDF}: 322.2/28$

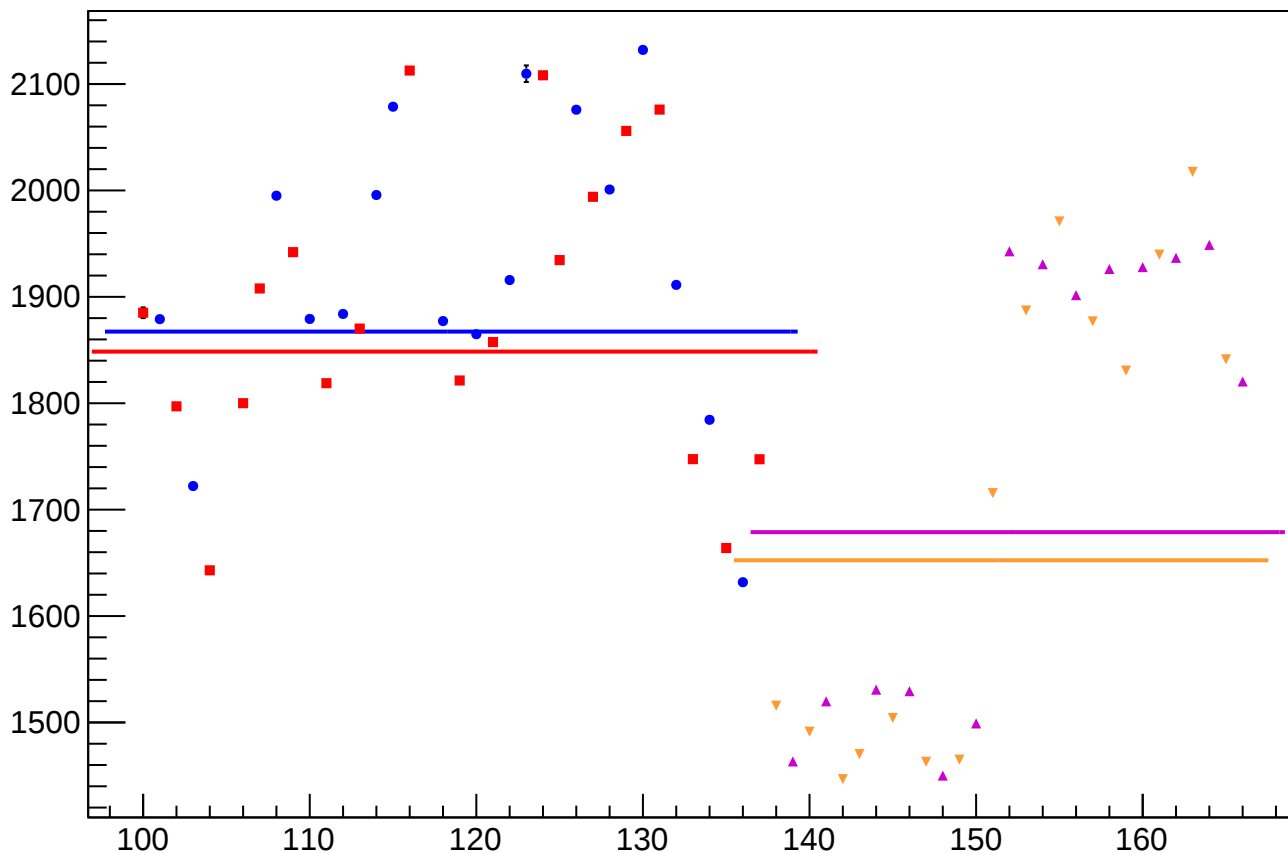
Right: 13.200 ± 0.500 $\chi^2/\text{NDF}: 1608.9/35$

In: 9.728 ± 0.418 $\chi^2/\text{NDF}: 1181.5/30$

Out: 5.524 ± 0.405 $\chi^2/\text{NDF}: 890.2/33$

All: 7.559 ± 0.291 $\chi^2/\text{NDF}: 2123.8/64$

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: 1678.849 $\pm$ 0.363 χ^2/NDF : 335622.6/13

Left: 1665.260 $\pm$ 0.253 χ^2/NDF : 676933.8/28

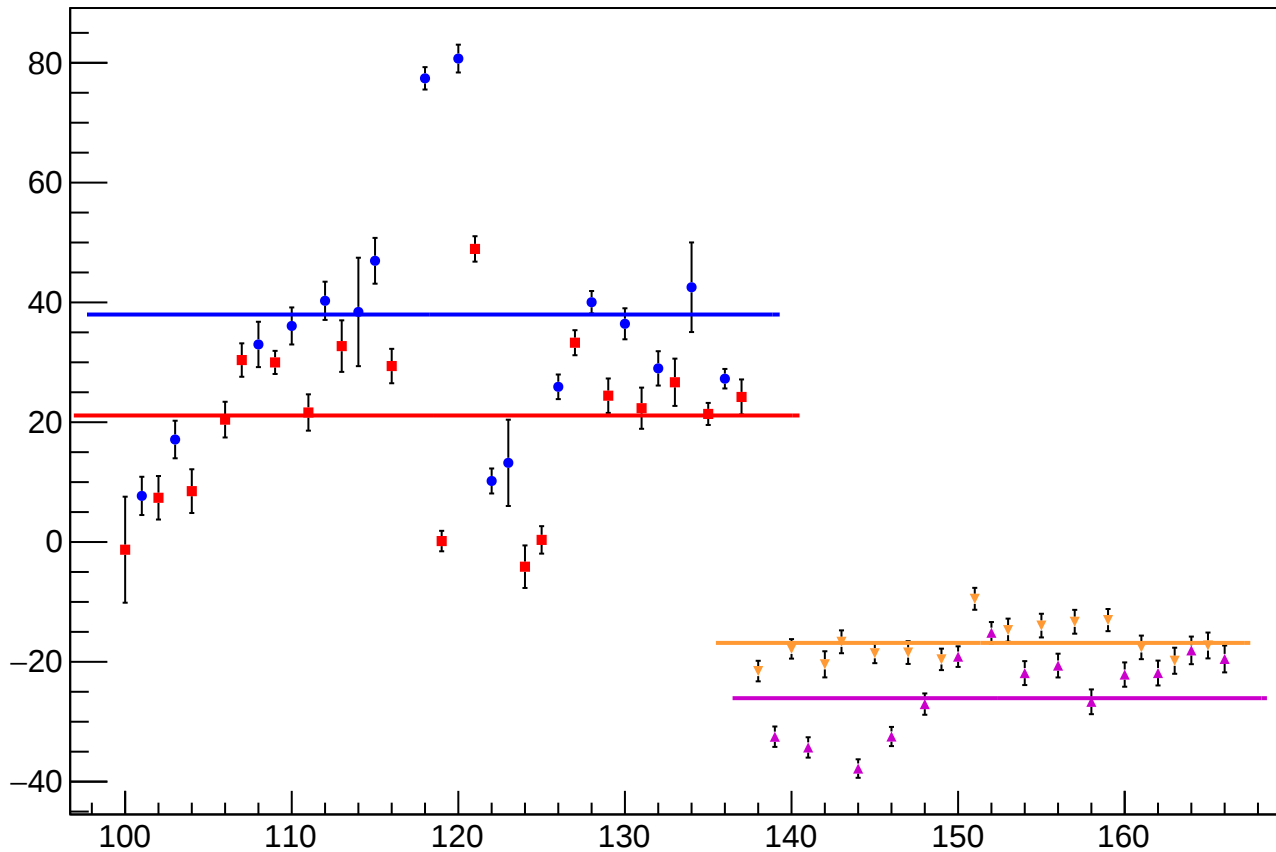
Right: 1857.561 $\pm$ 0.354 χ^2/NDF : 154160.4/35

In: 1742.242 $\pm$ 0.296 χ^2/NDF : 507115.5/30

Out: 1719.425 $\pm$ 0.287 χ^2/NDF : 516458.1/33

All: 1730.468 $\pm$ 0.206 χ^2/NDF : 1026641.5/64

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 χ^2/NDF : 1204.3/16

Left Out: -16.840 ± 0.487 χ^2/NDF : 43.8/14

Right Out: 21.124 ± 0.608 χ^2/NDF : 573.6/18

Left In: -26.068 ± 0.496 χ^2/NDF : 206.1/13

Left: -21.376 ± 0.348 χ^2/NDF : 426.1/28

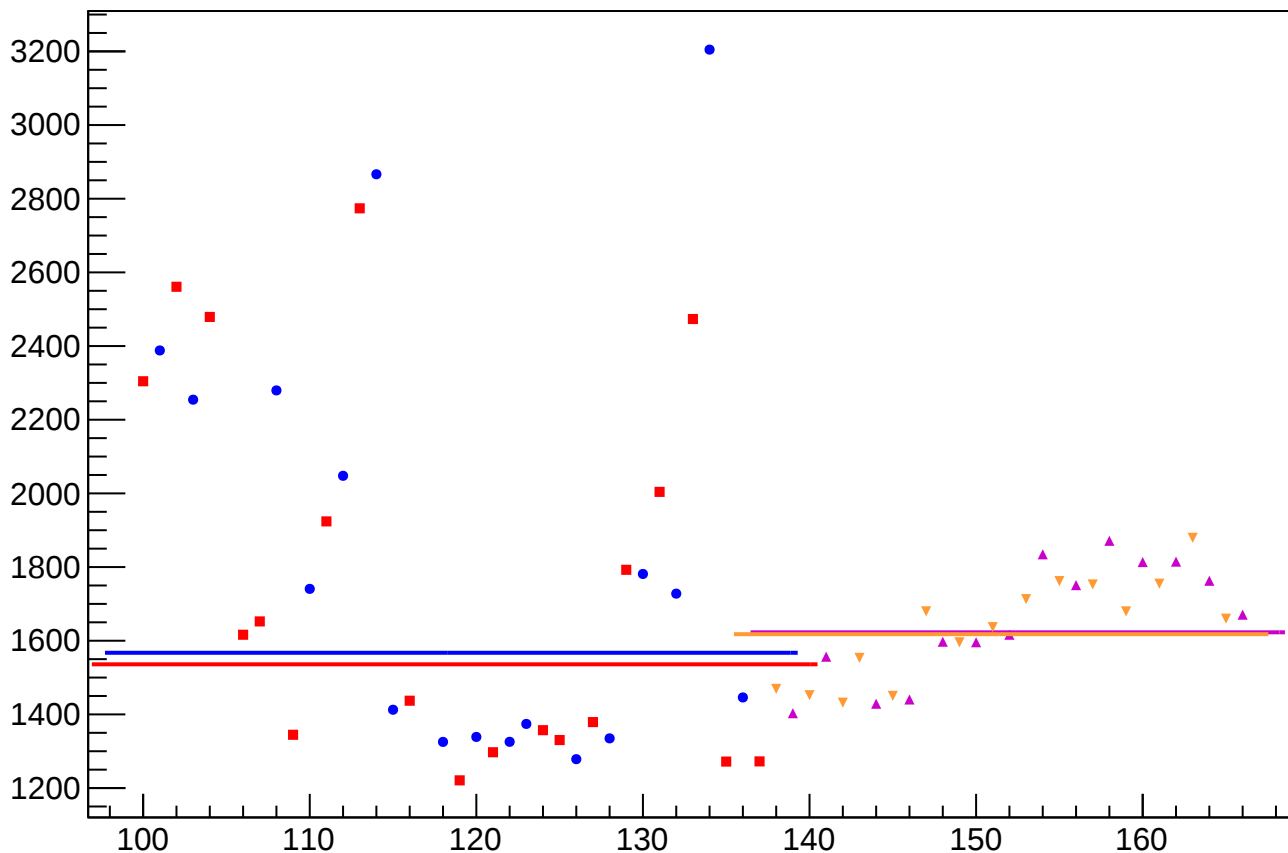
Right: 29.159 ± 0.440 χ^2/NDF : 2143.8/35

In: -1.930 ± 0.391 χ^2/NDF : 7702.4/30

Out: -2.001 ± 0.380 χ^2/NDF : 2989.7/33

All: -1.966 ± 0.273 χ^2/NDF : 10692.1/64

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: 1622.860 $\pm$ 0.351 χ^2 /NDF:197501.3/13

Left: 1620.265 $\pm$ 0.246 χ^2 /NDF: 339550.6/28

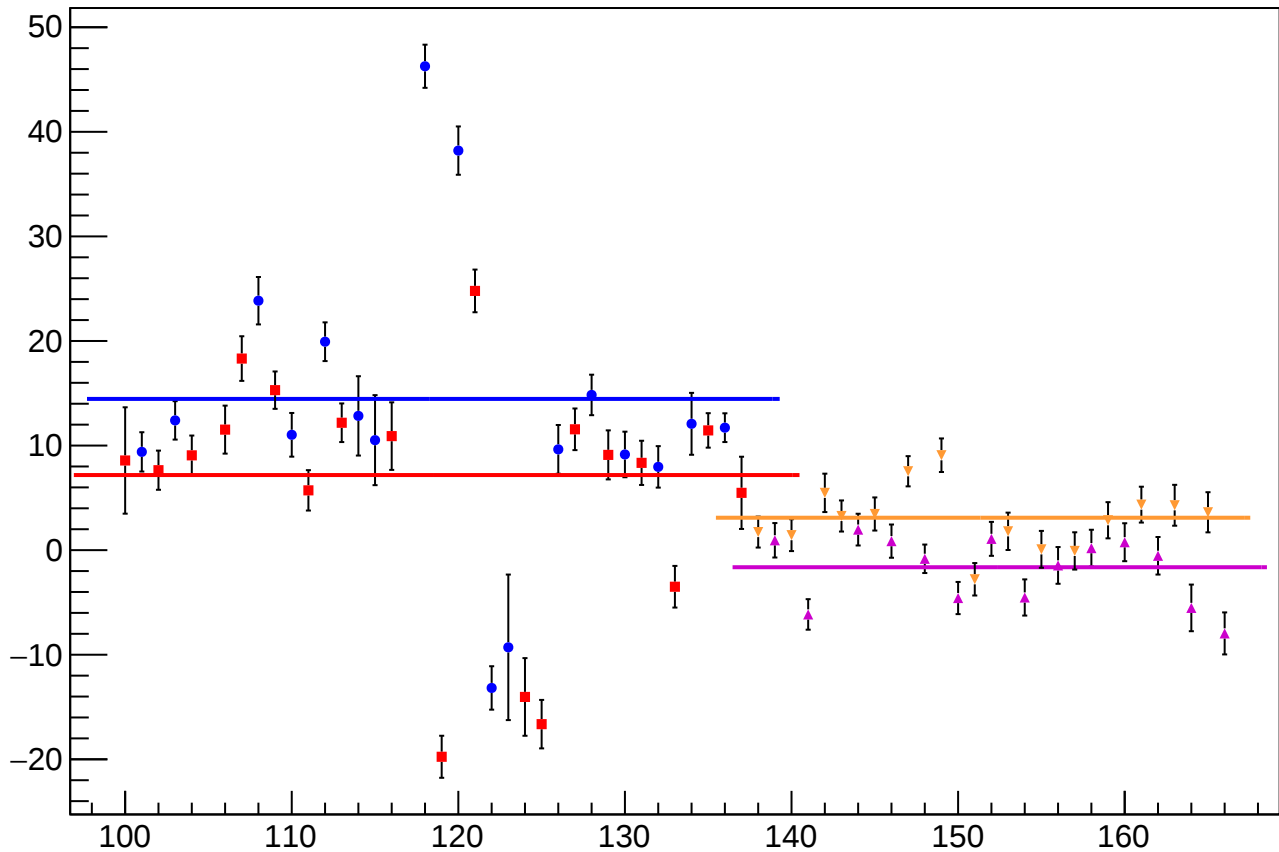
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1601.931 $\pm$ 0.277 χ^2 /NDF:880412.3/30

Out: 1585.787 $\pm$ 0.269 χ^2 /NDF:1046060.3/33

All: 1593.630 $\pm$ 0.193 χ^2 /NDF: 1928223.2/64

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: -1.633 $\pm$ 0.445 χ^2 /NDF: 45.9/13

Left: 0.827 $\pm$ 0.308 χ^2 /NDF: 153.9/28

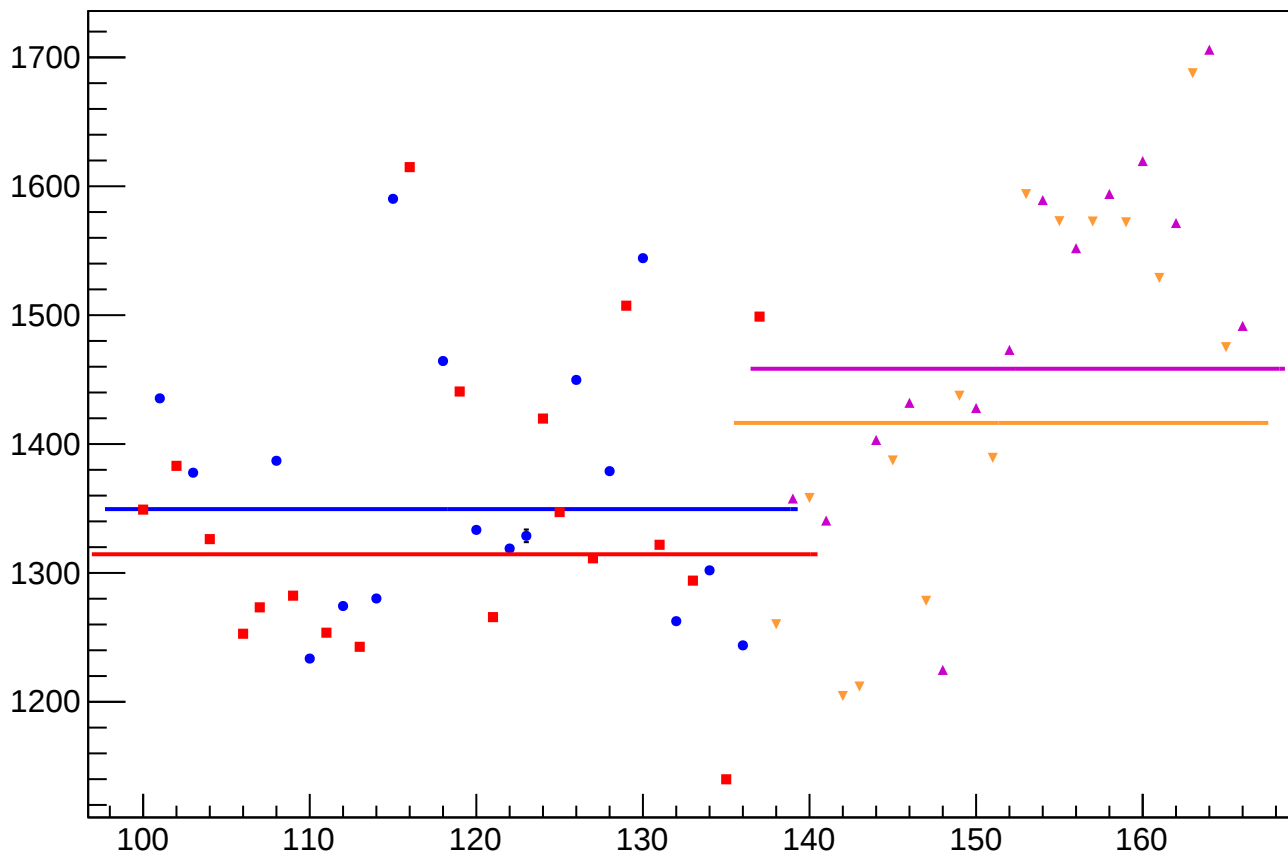
Right: 10.615 $\pm$ 0.359 χ^2 /NDF: 1193.9/35

In: 5.118 $\pm$ 0.339 χ^2 /NDF: 1191.1/30

Out: 4.846 $\pm$ 0.323 χ^2 /NDF: 583.8/33

All: 4.976 $\pm$ 0.234 χ^2 /NDF: 1775.2/64

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: 1458.419 $\pm$ 0.315 χ^2 /NDF:161509.1/13

Left: 1436.570 $\pm$ 0.218 χ^2 /NDF: 396377.9/28

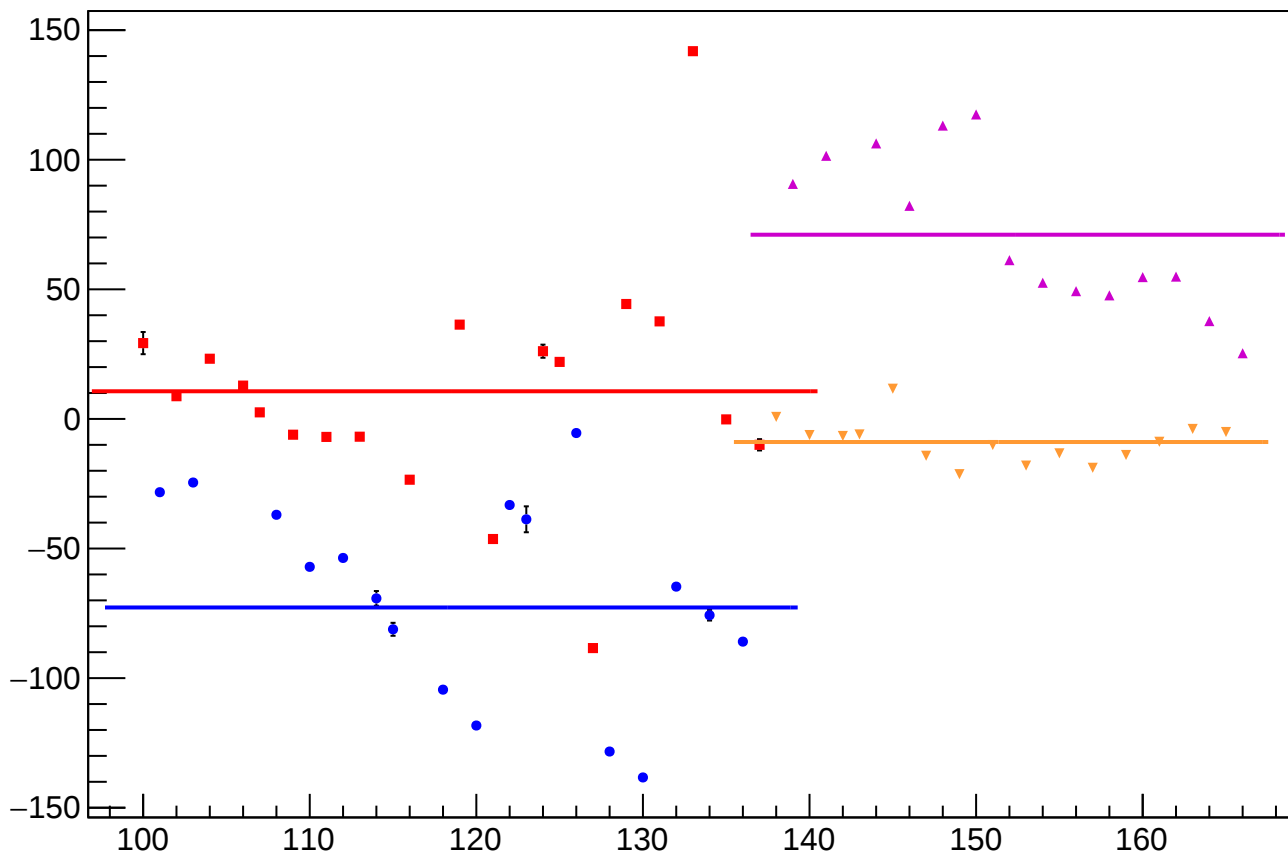
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1412.734 $\pm$ 0.240 χ^2 /NDF:276469.4/30

Out: 1372.800 $\pm$ 0.229 χ^2 /NDF:355172.1/33

All: 1391.831 $\pm$ 0.165 χ^2 /NDF: 646179.5/64

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: 71.070+/-0.288 χ^2/NDF : 9649.5/13

Left: 30.317+/-0.202 χ^2/NDF : 49838.2/28

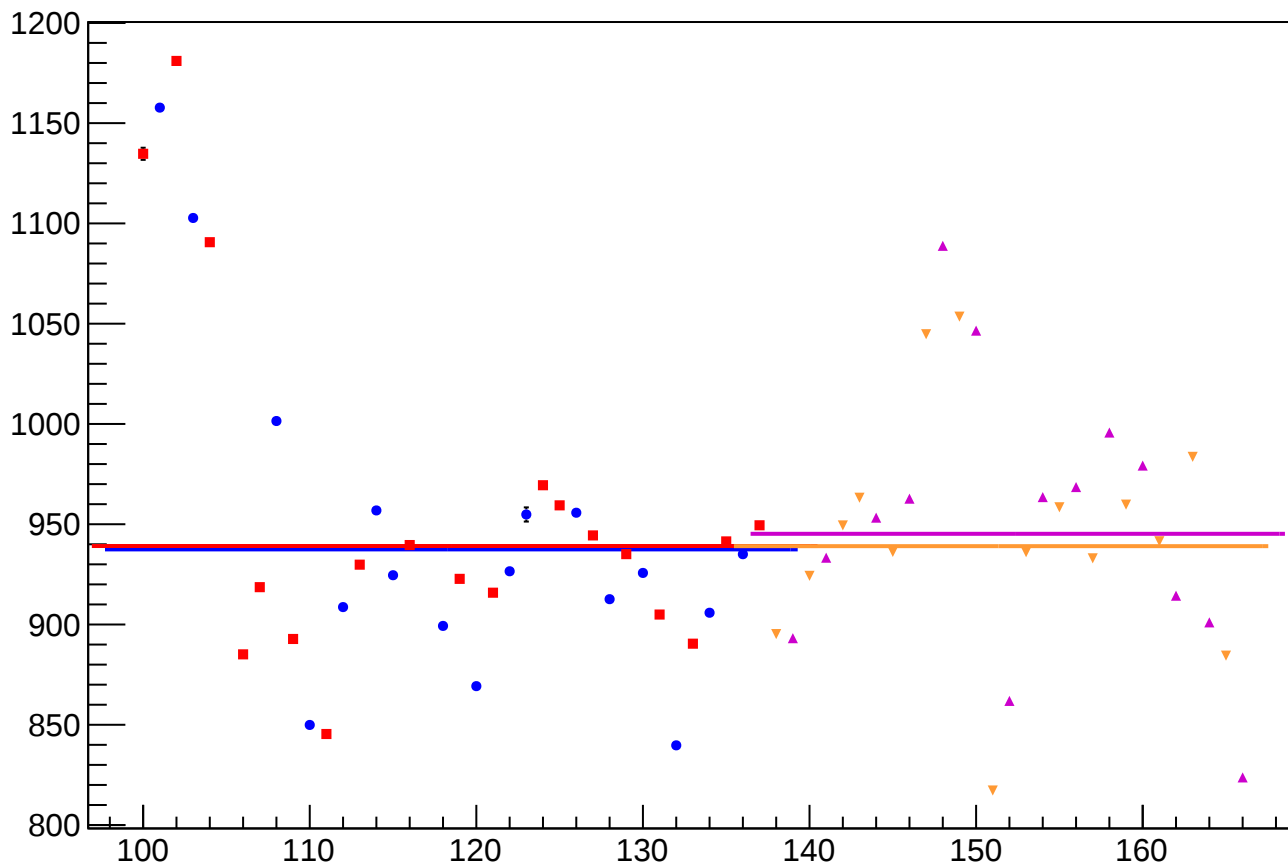
Right: -29.865+/-0.253 χ^2/NDF : 57099.2/35

In: 15.444+/-0.225 χ^2/NDF : 117926.9/30

Out: -1.249+/-0.220 χ^2/NDF : 20889.0/33

All: 6.909+/-0.158 χ^2/NDF : 141621.3/64

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 939.067 ± 0.200 χ^2/NDF : 84668.7/14

Right Out: 939.140 ± 0.249 χ^2/NDF : 90253.2/18

Left In: 945.226 ± 0.203 χ^2/NDF : 101589.7/13

Left: 942.088 ± 0.143 χ^2/NDF : 186725.2/28

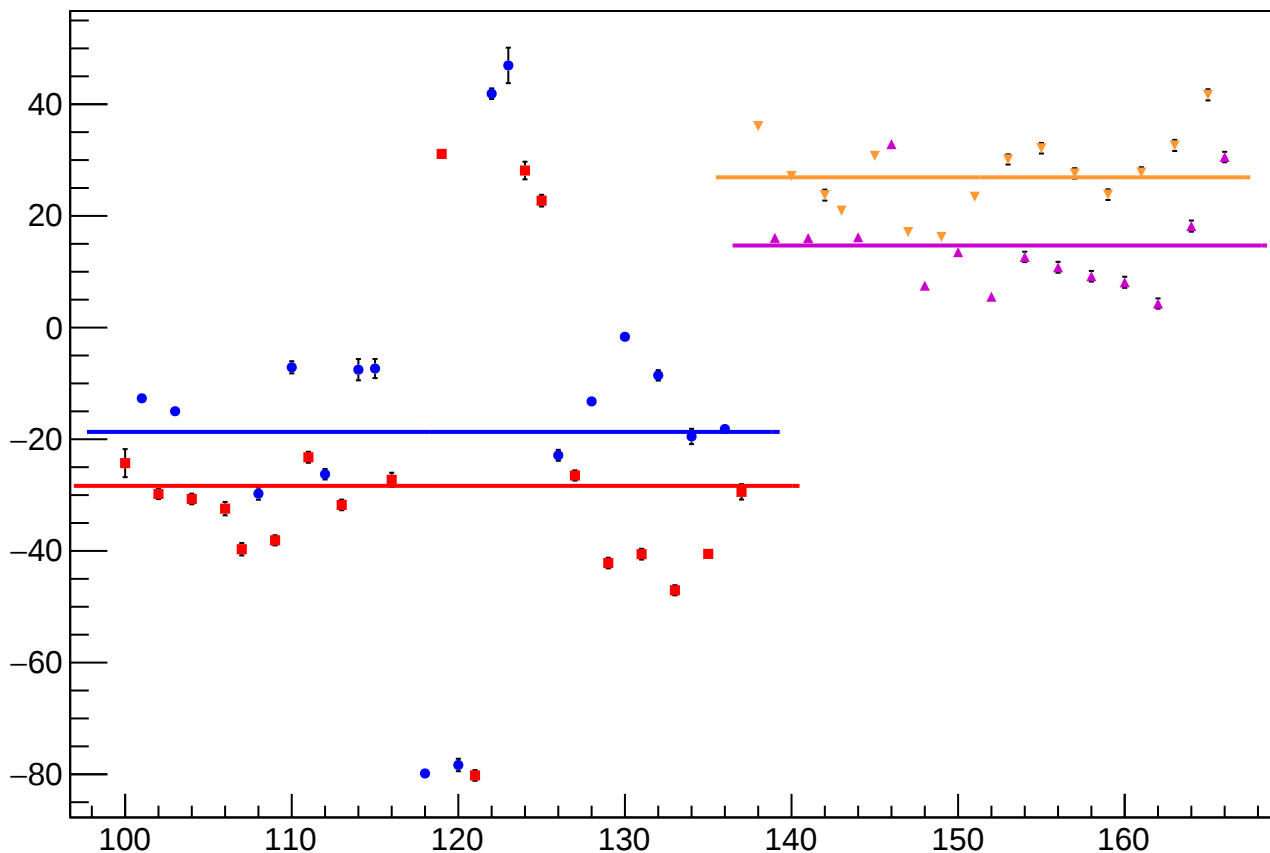
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 942.220 ± 0.159 χ^2/NDF : 200461.6/30

Out: 939.096 ± 0.156 χ^2/NDF : 174922.0/33

All: 940.622 ± 0.111 χ^2/NDF : 375580.1/64

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 χ^2/NDF : 13006.2/16

Left Out: 26.912 ± 0.217 χ^2/NDF : 924.5/14

Right Out: -28.347 ± 0.235 χ^2/NDF : 12508.1/18

Left In: 14.702 ± 0.223 χ^2/NDF : 1335.7/13

Left: 20.963 ± 0.156 χ^2/NDF : 3797.4/28

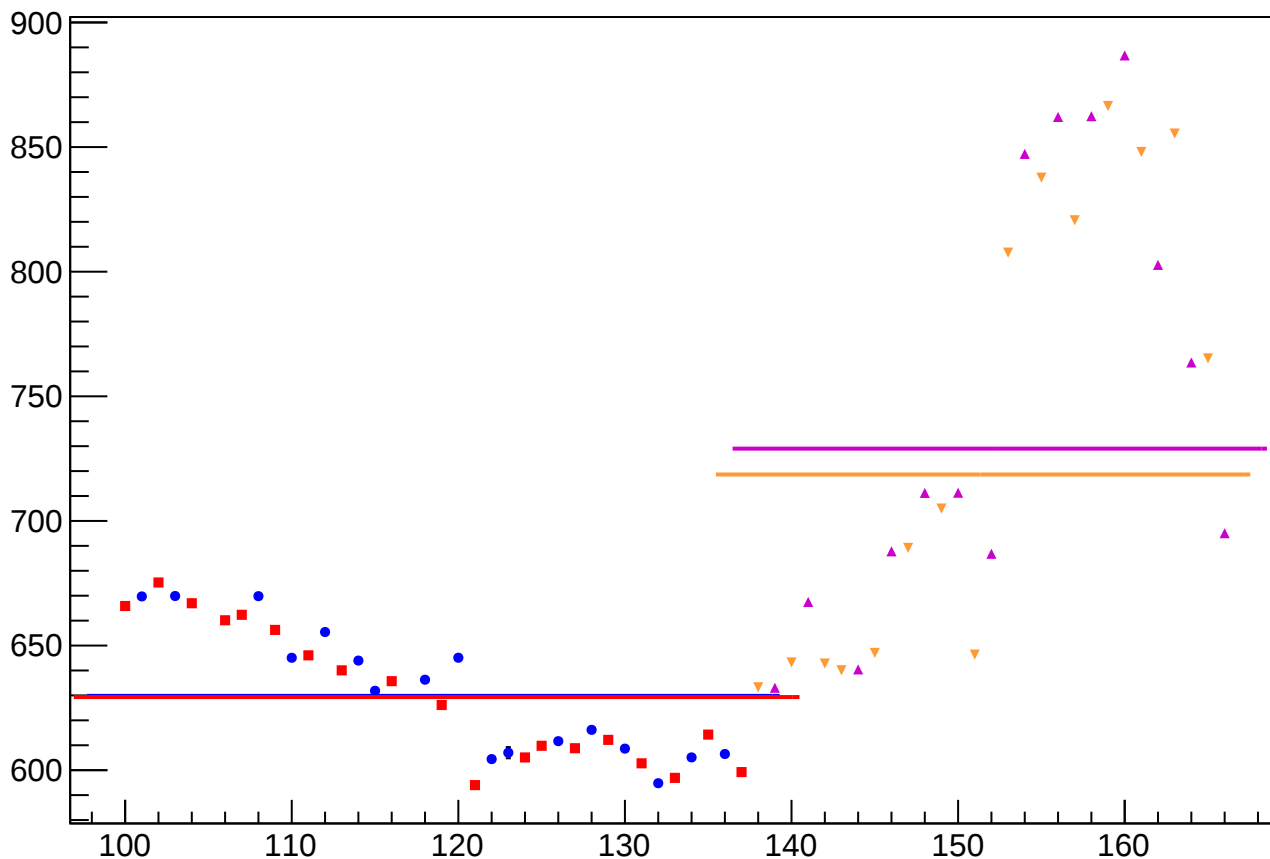
Right: -23.660 ± 0.169 χ^2/NDF : 26331.1/35

In: -0.585 ± 0.164 χ^2/NDF : 24603.0/30

Out: 1.484 ± 0.160 χ^2/NDF : 43165.5/33

All: 0.478 ± 0.114 χ^2/NDF : 67850.0/64

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815 $\pm$ 0.172 χ^2 /NDF: 23298.3/16

Left Out: 718.634 $\pm$ 0.154 χ^2 /NDF: 325348.0/14

Right Out: 629.340 $\pm$ 0.166 χ^2 /NDF: 25538.5/18

Left In: 729.010 $\pm$ 0.158 χ^2 /NDF: 269742.8/13

Left: 723.689 $\pm$ 0.110 χ^2 /NDF: 597310.9/28

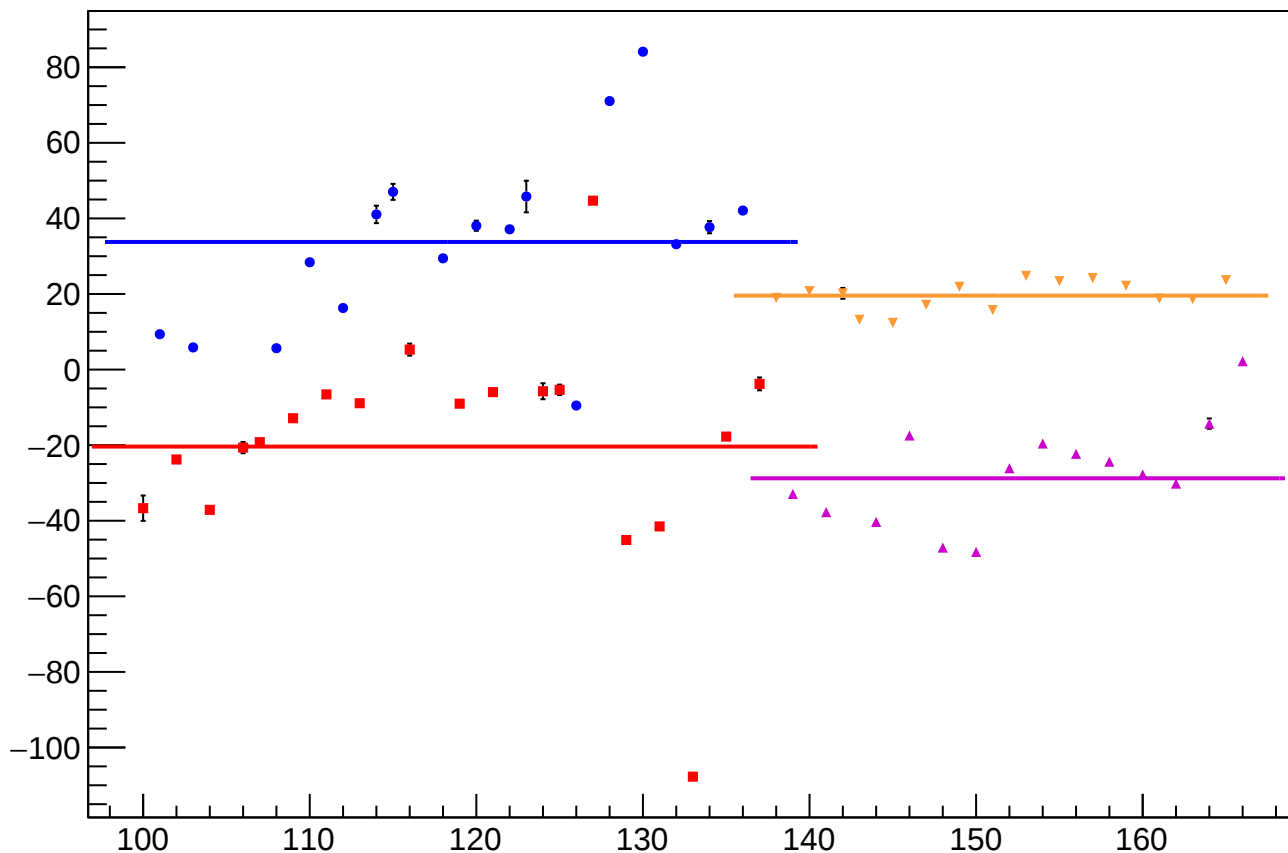
Right: 629.570 $\pm$ 0.119 χ^2 /NDF: 48840.7/35

In: 683.591 $\pm$ 0.116 χ^2 /NDF: 474222.6/30

Out: 677.544 $\pm$ 0.113 χ^2 /NDF: 506163.5/33

All: 680.483 $\pm$ 0.081 χ^2 /NDF: 981779.9/64

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: -28.770+/-0.314 χ^2/NDF :1621.7/13

Left: -4.248+/-0.220 χ^2/NDF : 13785.2/28

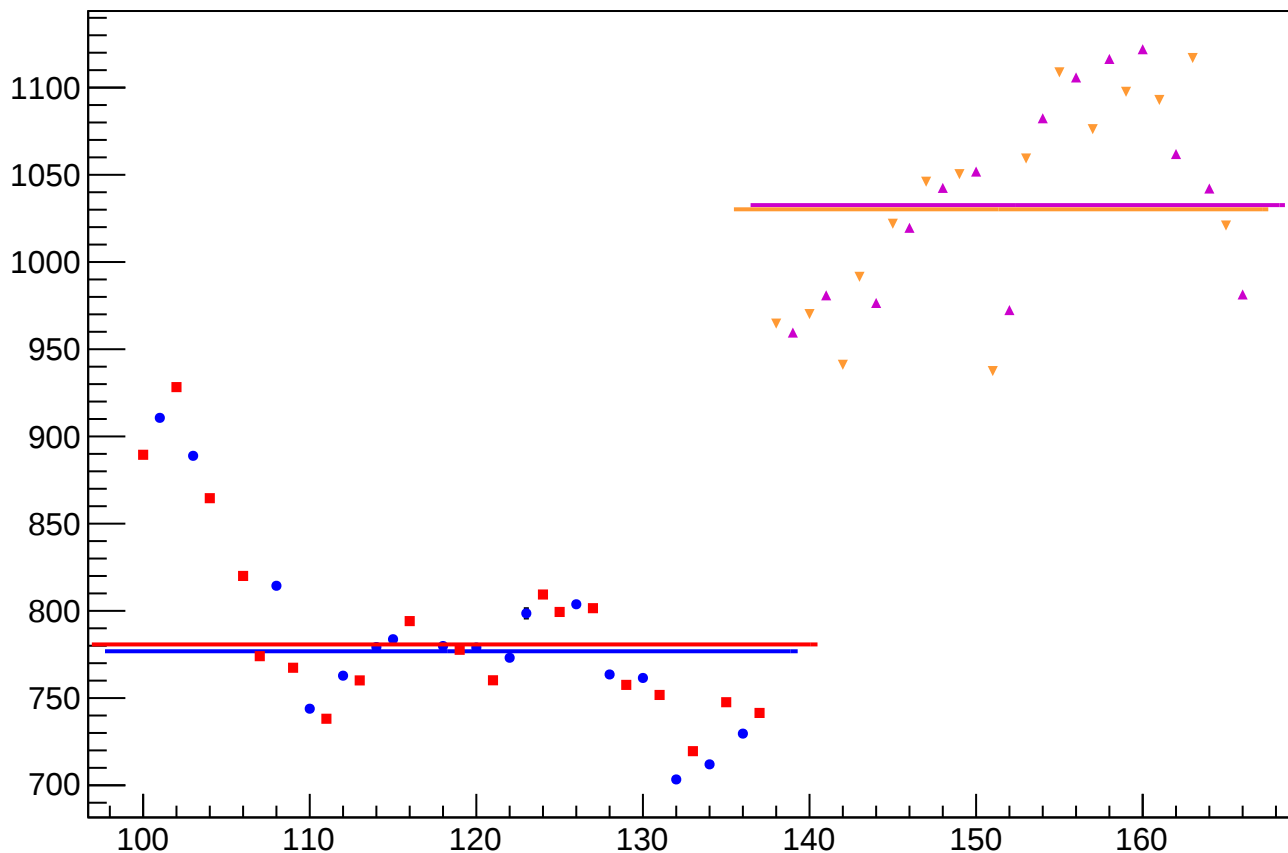
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 3.946+/-0.217 χ^2/NDF :28851.3/30

Out: -1.531+/-0.213 χ^2/NDF :20231.5/33

All: 1.153+/-0.152 χ^2/NDF : 49408.0/64

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1030.218 $\pm$ 0.219 χ^2 /NDF: 71968.0/14

Right Out: 780.755 $\pm$ 0.207 χ^2 /NDF: 57428.9/18

Left In: 1032.624 $\pm$ 0.222 χ^2 /NDF: 59614.8/13

Left: 1031.404 $\pm$ 0.156 χ^2 /NDF: 131642.3/28

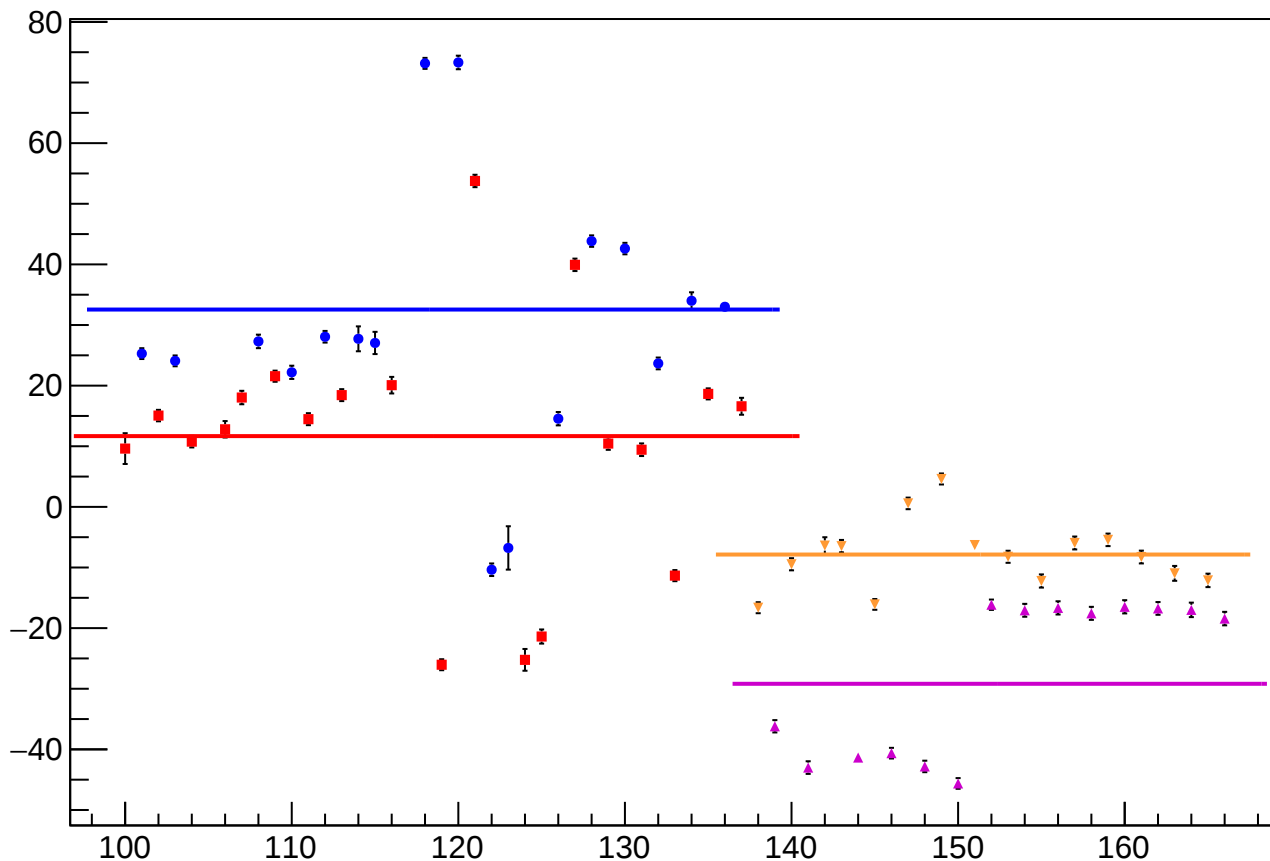
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 898.823 $\pm$ 0.153 χ^2 /NDF: 820968.9/30

Out: 898.443 $\pm$ 0.150 χ^2 /NDF: 815600.1/33

All: 898.629 $\pm$ 0.107 χ^2 /NDF: 1636572.1/64

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: -29.184+/-0.265 χ^2/NDF : 2245.7/13

Left: -18.330+/-0.186 χ^2/NDF : 6040.9/28

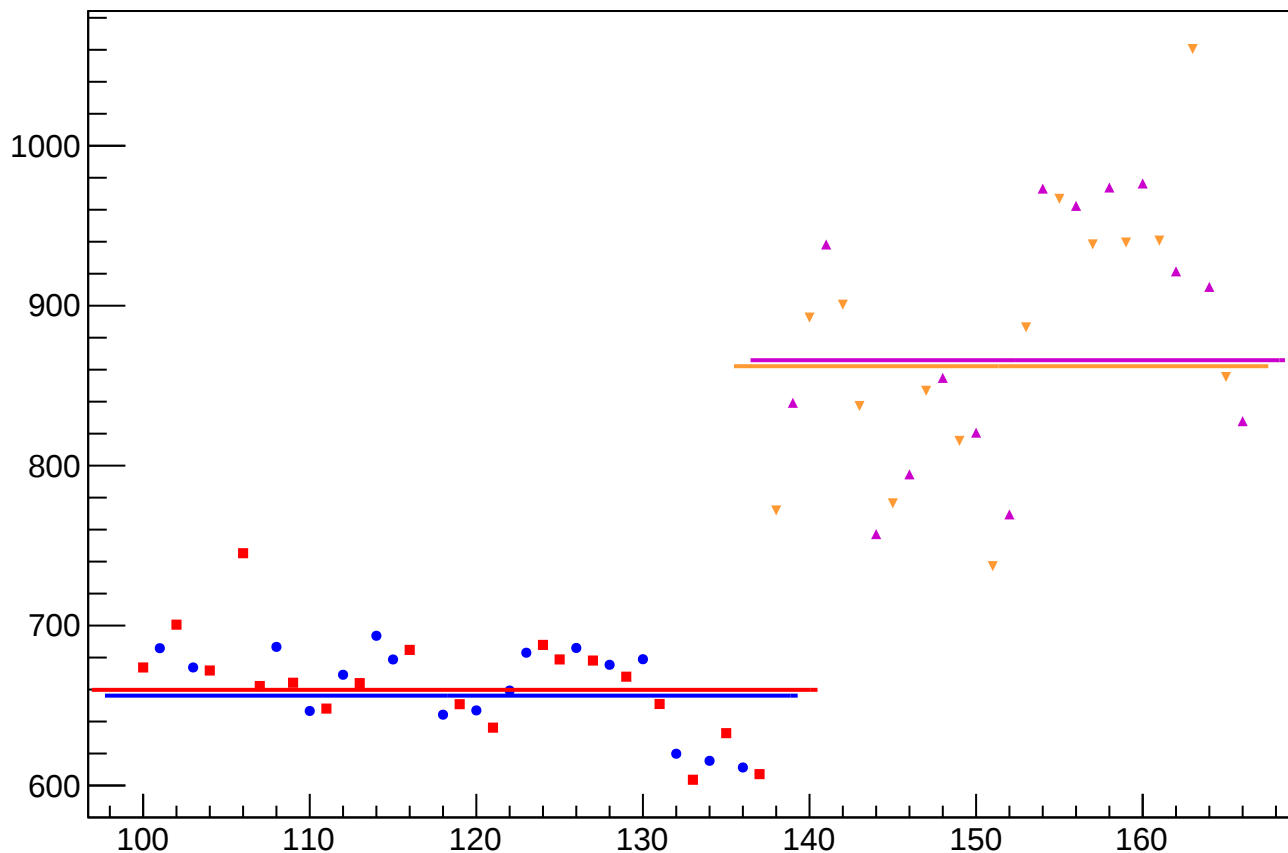
Right: 21.868+/-0.177 χ^2/NDF : 15919.4/35

In: 3.131+/-0.183 χ^2/NDF : 36726.4/30

Out: 2.417+/-0.179 χ^2/NDF : 9821.3/33

All: 2.766+/-0.128 χ^2/NDF : 46555.5/64

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: 865.919 $\pm$ 0.187 χ^2/NDF :177308.2/13

Left: 864.005 $\pm$ 0.131 χ^2/NDF : 376878.3/28

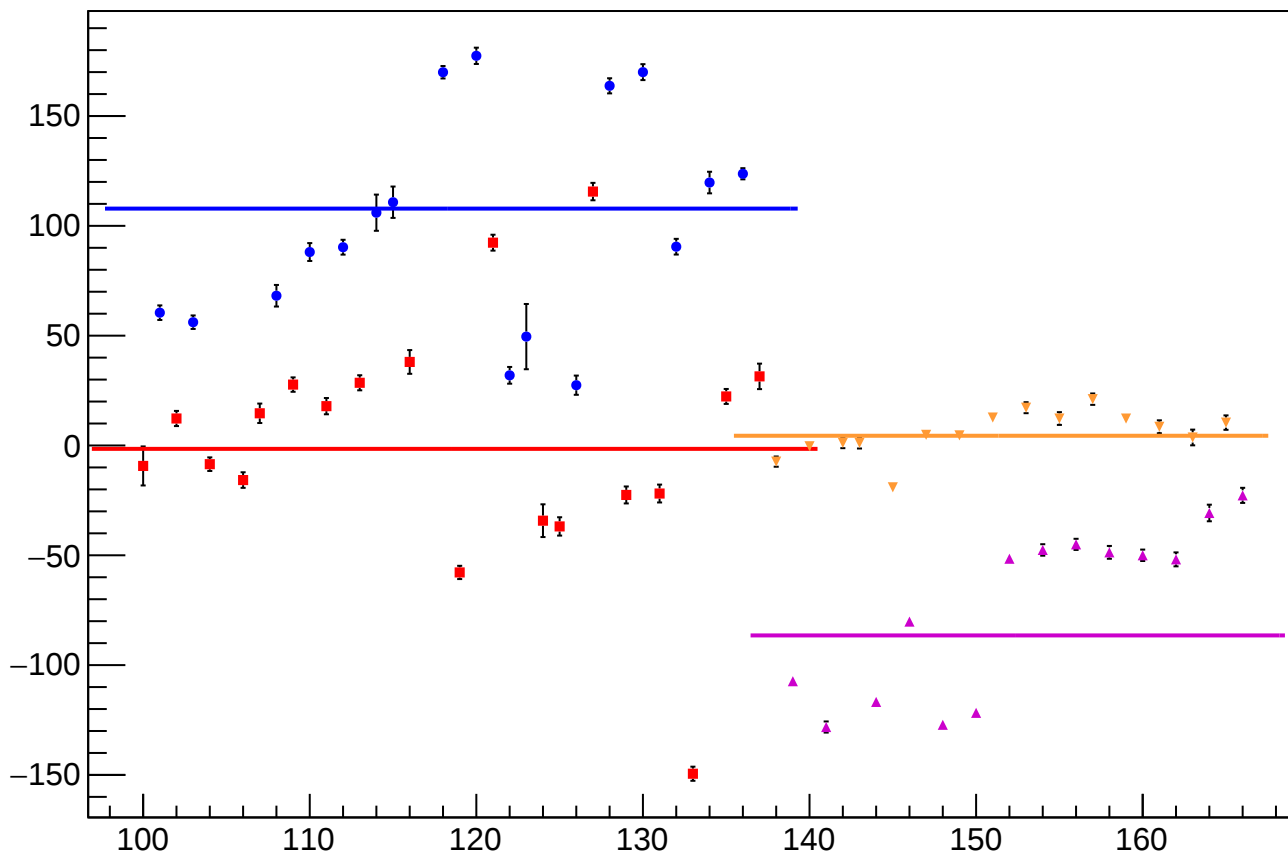
Right: 658.039 $\pm$ 0.125 χ^2/NDF : 52106.5/35

In: 756.135 $\pm$ 0.129 χ^2/NDF :856632.3/30

Out: 755.695 $\pm$ 0.127 χ^2/NDF :863753.9/33

All: 755.911 $\pm$ 0.091 χ^2/NDF : 1720392.1/64

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: -86.484 ± 0.616 $\chi^2/\text{NDF}: 3313.7/13$

Left: -40.195 ± 0.431 $\chi^2/\text{NDF}: 14688.6/28$

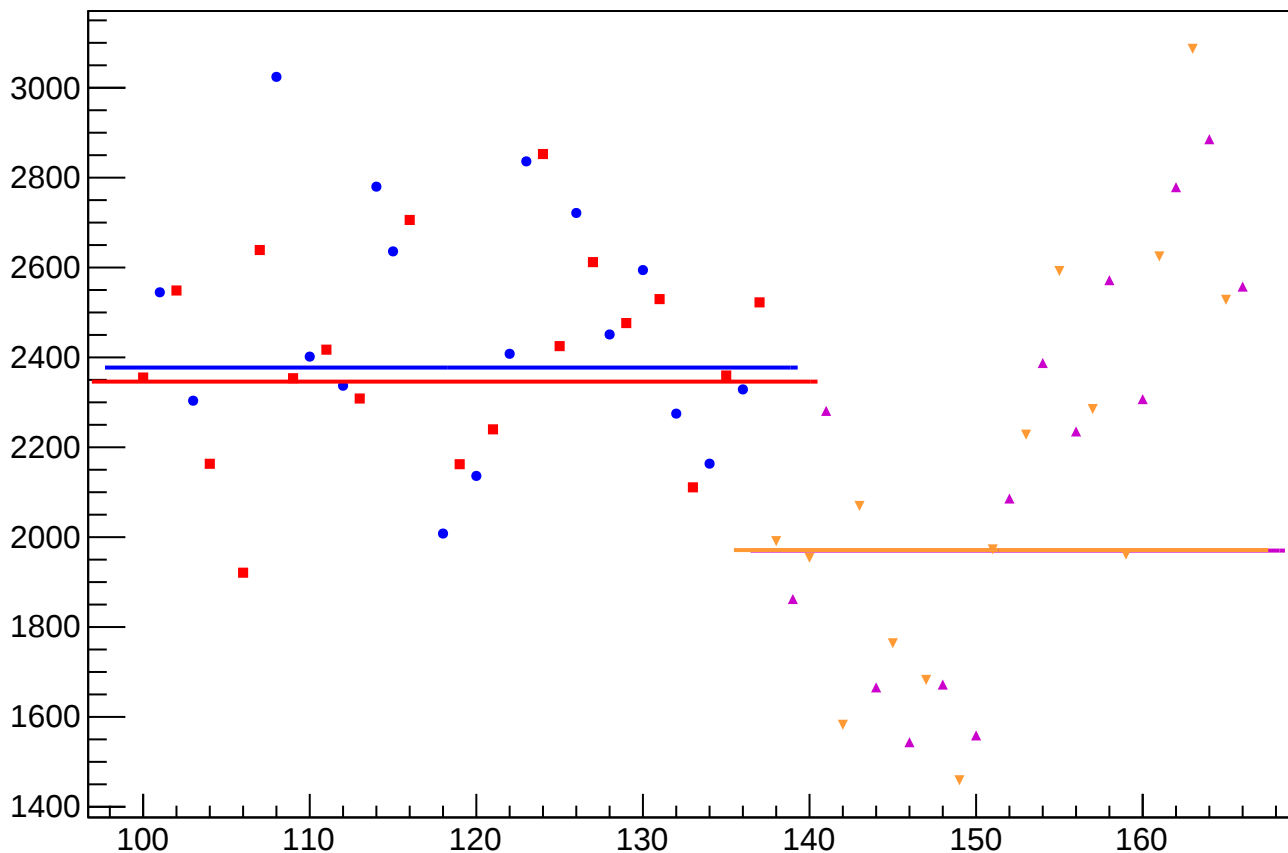
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -26.505 ± 0.512 $\chi^2/\text{NDF}: 36868.6/30$

Out: 2.522 ± 0.499 $\chi^2/\text{NDF}: 4829.8/33$

All: -11.616 ± 0.357 $\chi^2/\text{NDF}: 43347.3/64$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 1971.291+/-0.427 χ^2/NDF : 810418.0/14

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 1970.108+/-0.435 χ^2/NDF : 886785.0/13

Left: 1970.710+/-0.305 χ^2/NDF : 1697206.8/28

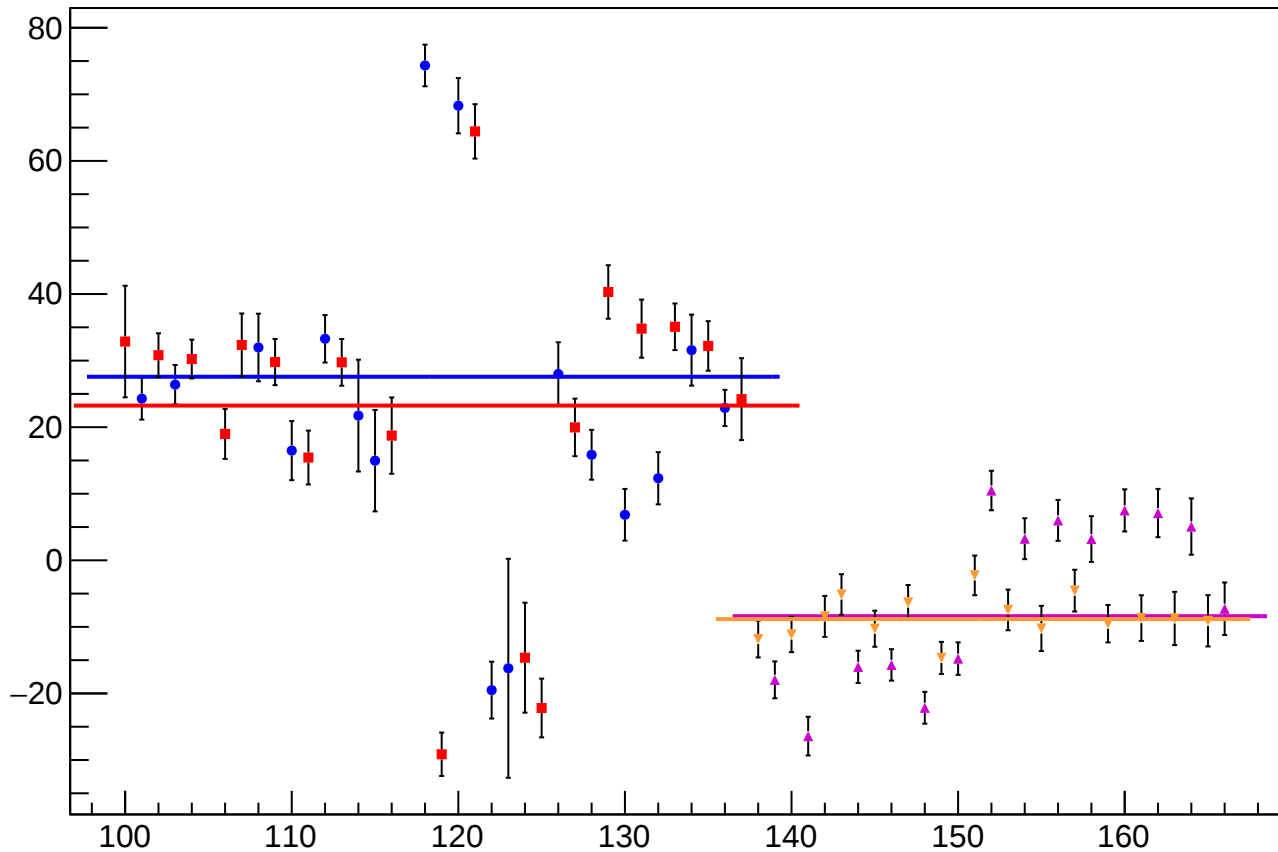
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2095.820+/-0.362 χ^2/NDF : 1276563.8/30

Out: 2090.854+/-0.353 χ^2/NDF : 1163937.6/33

All: 2093.273+/-0.253 χ^2/NDF : 2440597.9/64

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: -8.393 ± 0.779 $\chi^2/\text{NDF}: 251.6/13$

Left: -8.615 ± 0.548 $\chi^2/\text{NDF}: 269.4/28$

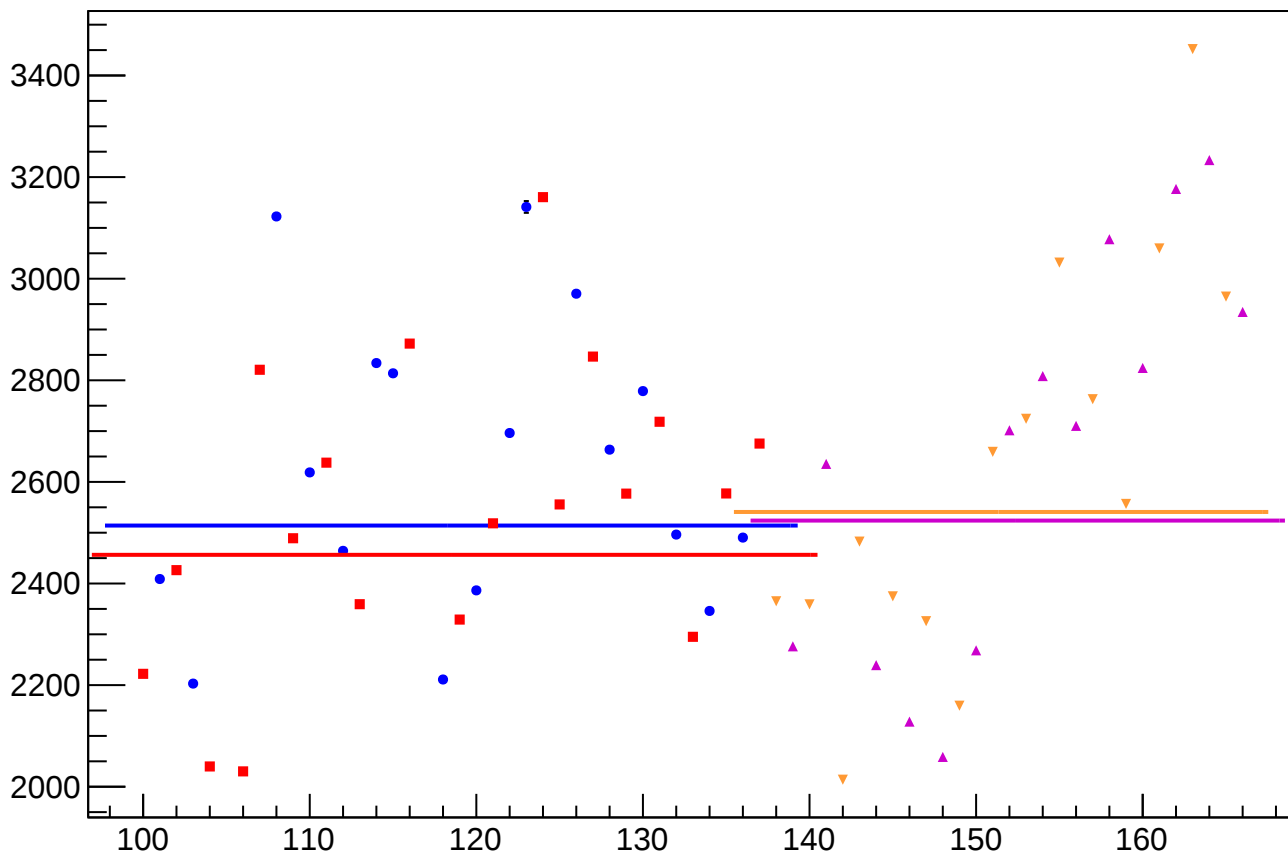
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 5.629 ± 0.609 $\chi^2/\text{NDF}: 1602.0/30$

Out: 4.258 ± 0.592 $\chi^2/\text{NDF}: 1284.1/33$

All: 4.925 ± 0.424 $\chi^2/\text{NDF}: 2888.8/64$

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: 2523.883+/-0.551 χ^2/NDF : 444544.1/13

Left: 2532.462+/-0.387 χ^2/NDF : 828646.7/28

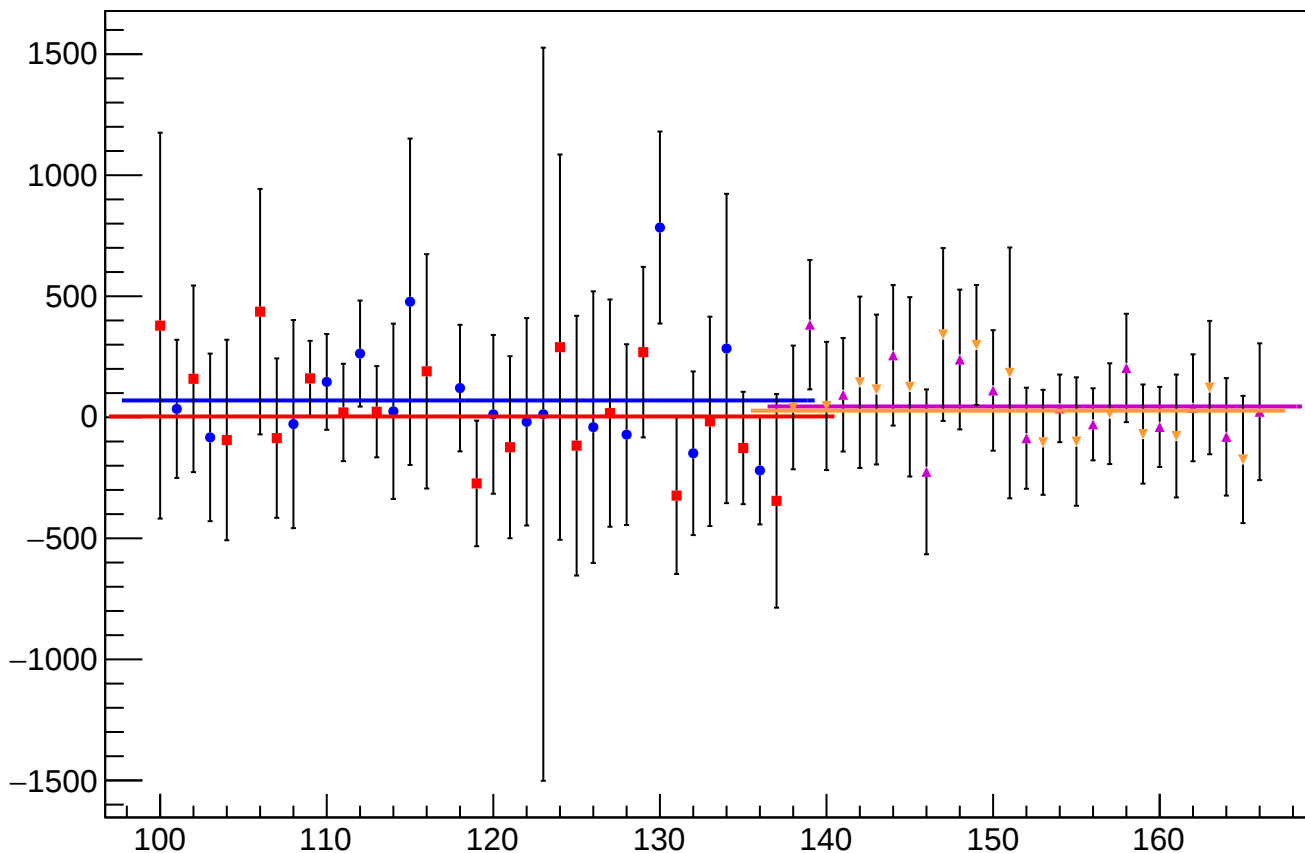
Right: 2483.827+/-0.475 χ^2/NDF : 274364.7/35

In: 2520.065+/-0.430 χ^2/NDF : 565628.5/30

Out: 2506.402+/-0.419 χ^2/NDF : 543163.6/33

All: 2513.047+/-0.300 χ^2/NDF : 1109309.9/64

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: 44.751 $\pm$ 57.105 χ^2 /NDF:5.0/13

Left: 37.796 $\pm$ 44.051 χ^2 /NDF: 9.1/28

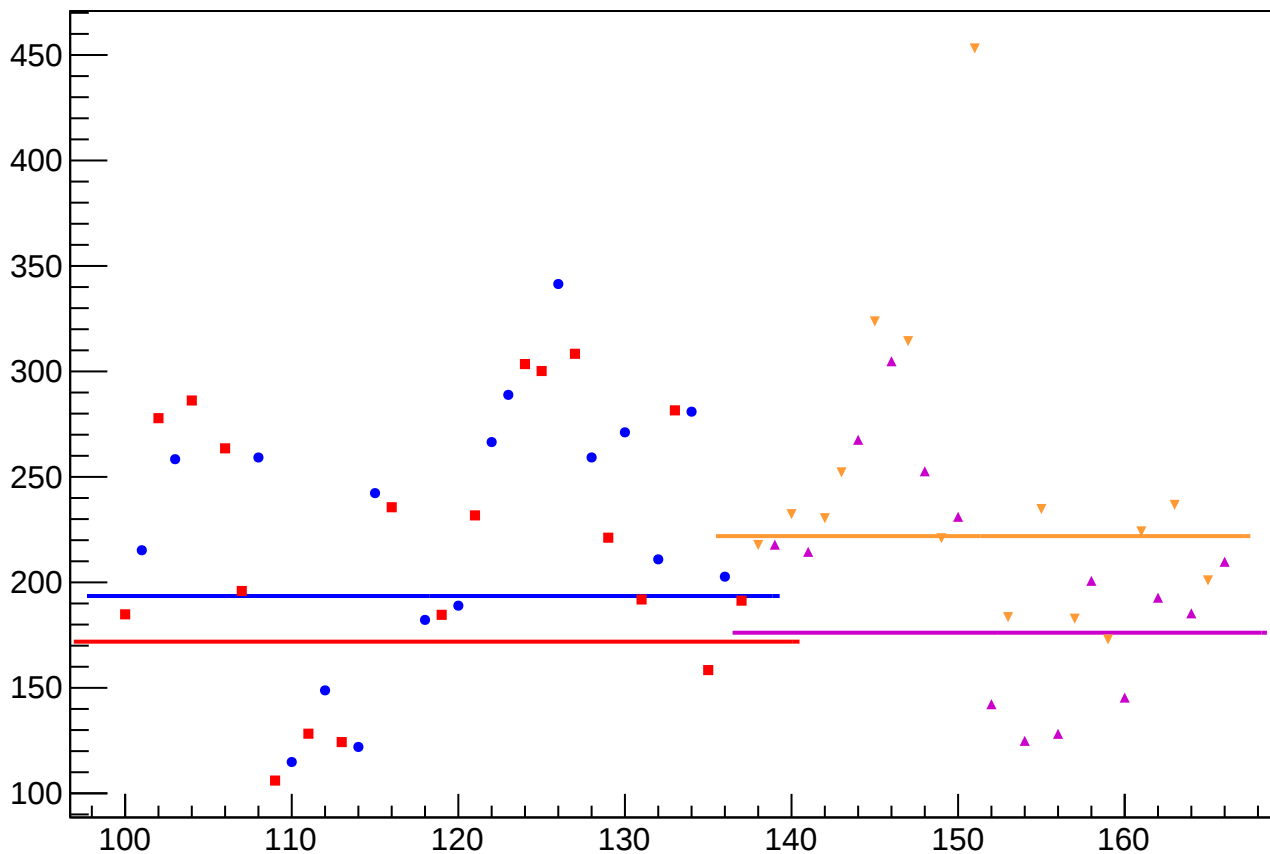
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 53.271 $\pm$ 46.285 χ^2 /NDF:12.4/30

Out: 15.700 $\pm$ 49.214 χ^2 /NDF:10.5/33

All: 35.637 $\pm$ 33.716 χ^2 /NDF: 23.2/64

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: 176.140+/-0.040 χ^2/NDF : 1489554.1/13

Left: 194.682+/-0.031 χ^2/NDF : 2988555.9/28

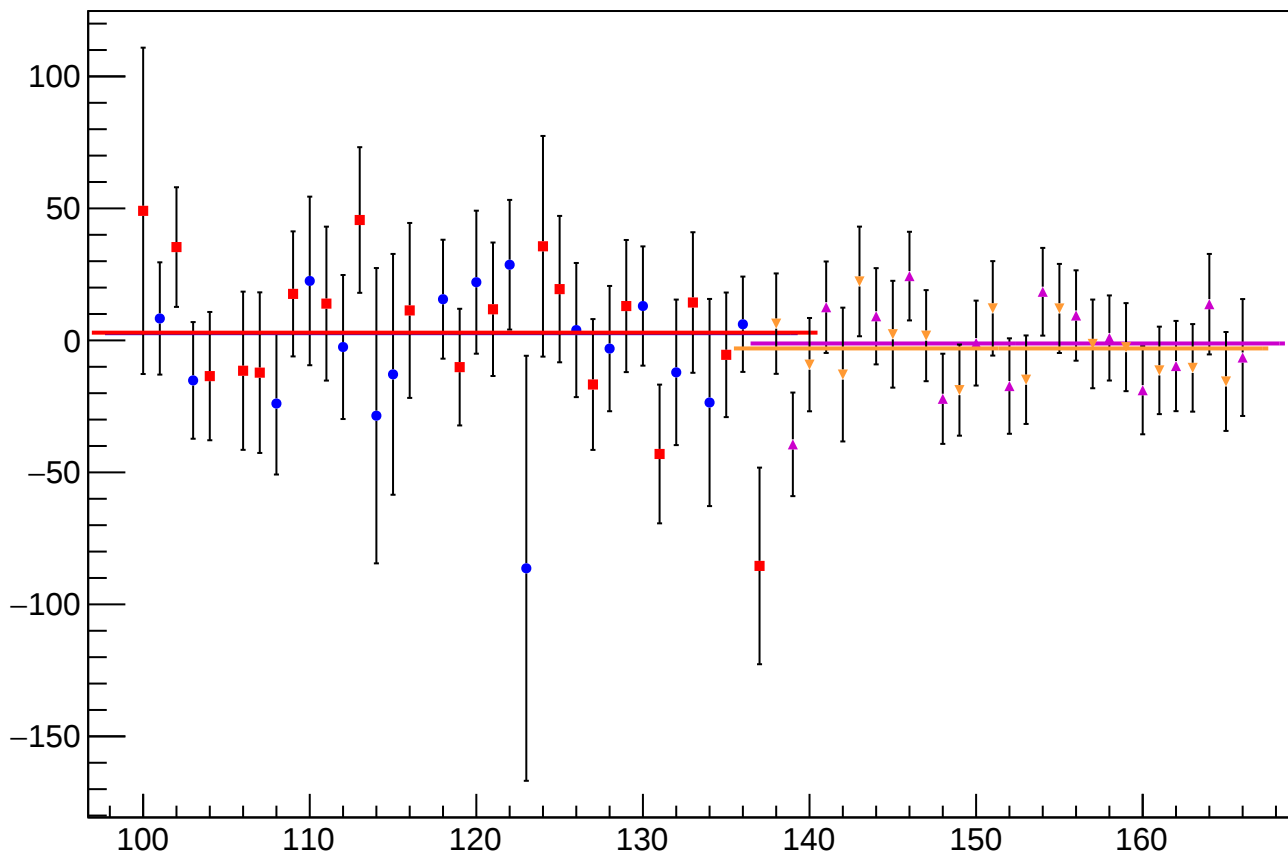
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 182.107+/-0.033 χ^2/NDF : 2563634.2/30

Out: 197.187+/-0.035 χ^2/NDF : 3071794.4/33

All: 189.185+/-0.024 χ^2/NDF : 5735082.0/64

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733+/-6.424 χ^2/NDF : 6.8/16

Left Out: -3.050+/-4.639 χ^2/NDF : 5.9/14

Right Out: 2.928+/-6.279 χ^2/NDF : 17.8/18

Left In: -1.167+/-4.686 χ^2/NDF : 13.2/13

Left: -2.118+/-3.297 χ^2/NDF : 19.2/28

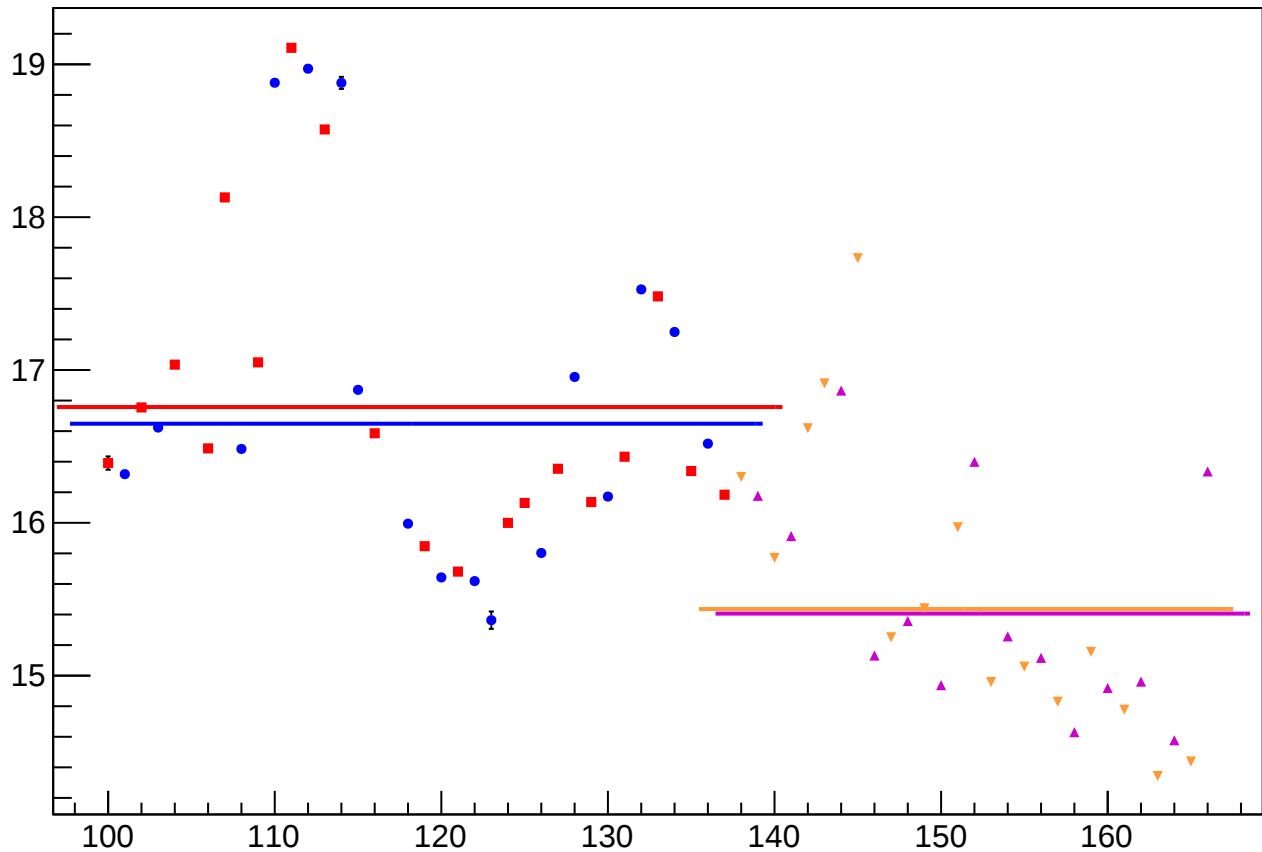
Right: 2.833+/-4.490 χ^2/NDF : 24.5/35

In: 0.188+/-3.786 χ^2/NDF : 20.2/30

Out: -0.939+/-3.731 χ^2/NDF : 24.3/33

All: -0.384+/-2.658 χ^2/NDF : 44.5/64

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: 15.406 $\pm$ 0.003 χ^2 /NDF: 41646.2/13

Left: 15.421 $\pm$ 0.002 χ^2 /NDF: 112059.4/28

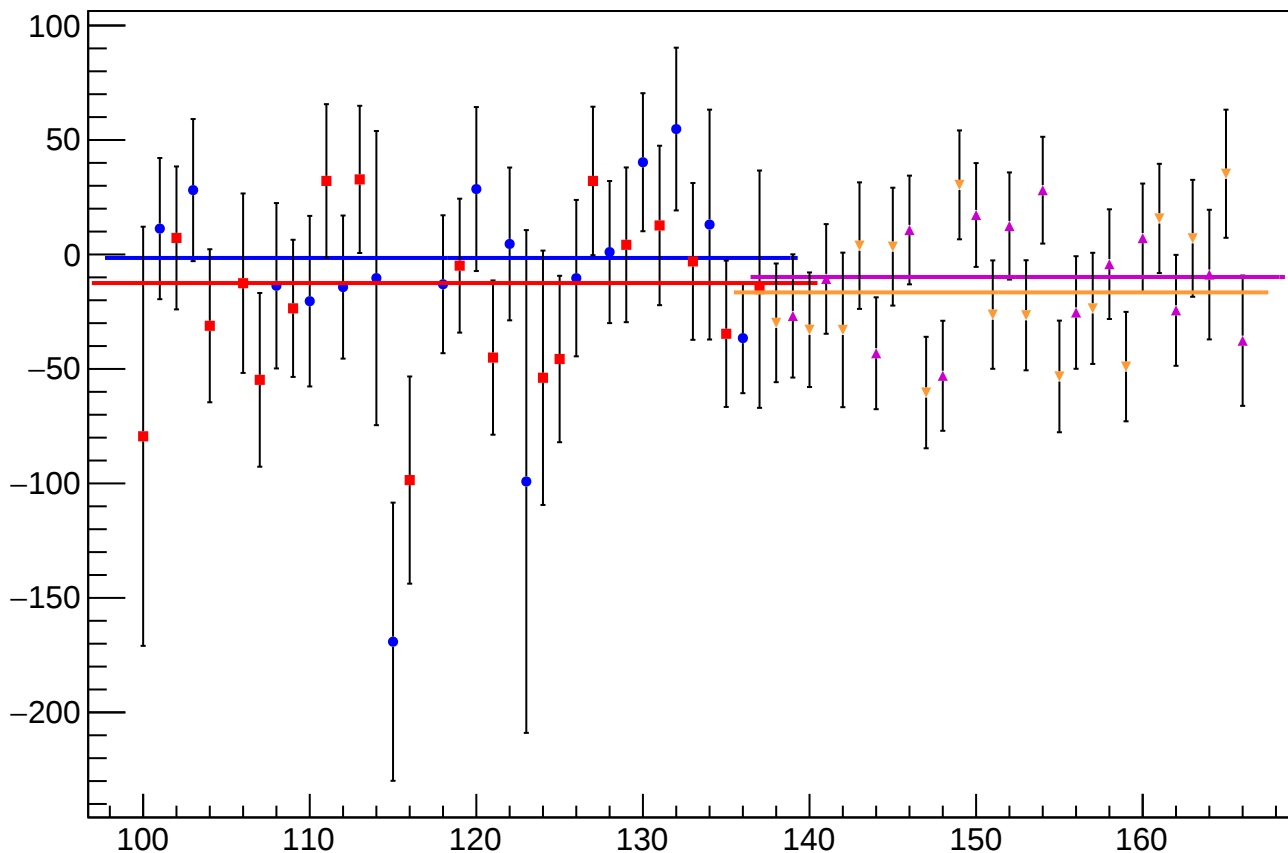
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.838 $\pm$ 0.003 χ^2 /NDF: 133043.5/30

Out: 15.903 $\pm$ 0.003 χ^2 /NDF: 167643.0/33

All: 15.871 $\pm$ 0.002 χ^2 /NDF: 300988.1/64

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: -9.836 ± 6.557 χ^2/NDF : 13.5/13

Left: -13.213 ± 4.627 χ^2/NDF : 33.9/28

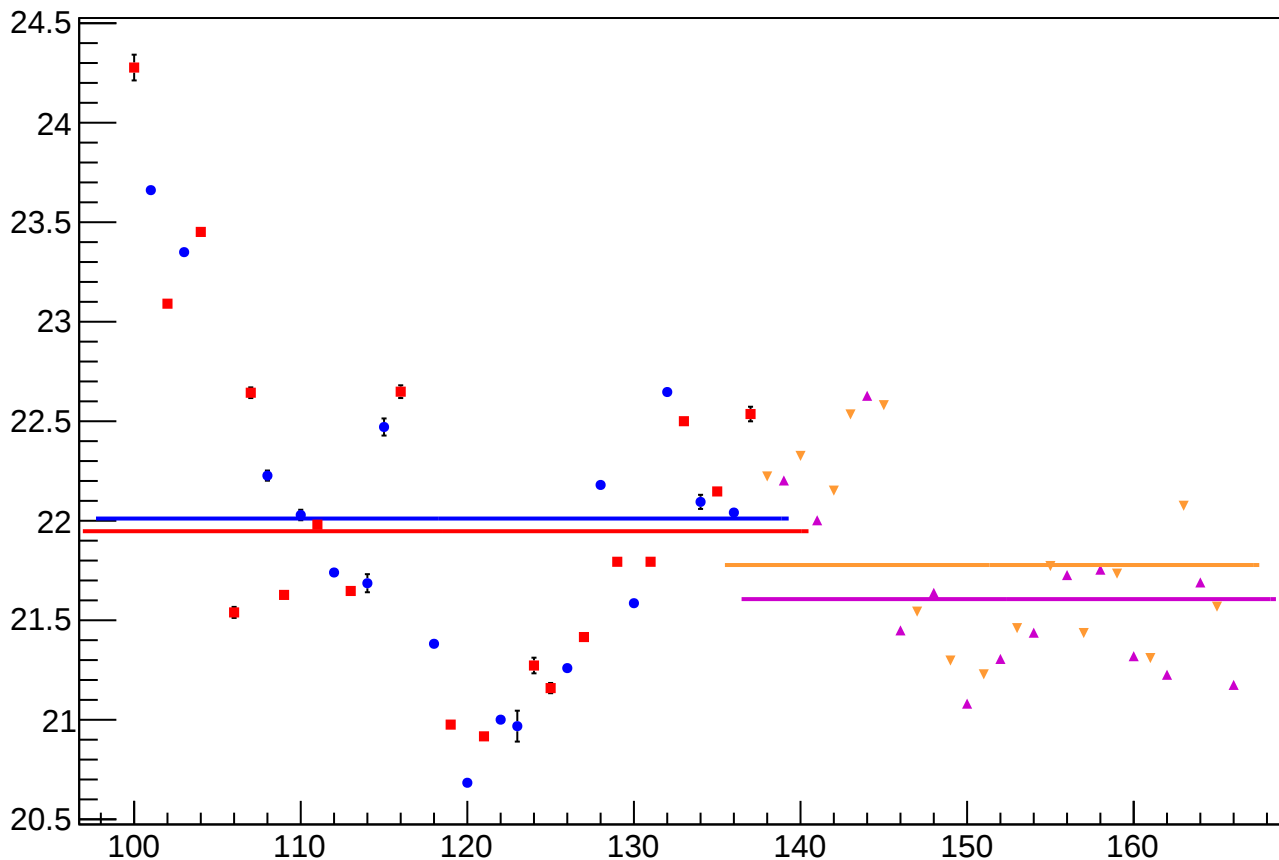
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -6.728 ± 5.188 χ^2/NDF : 31.7/30

Out: -14.978 ± 5.111 χ^2/NDF : 35.6/33

All: -10.915 ± 3.641 χ^2/NDF : 68.6/64

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: 21.606 $\pm$ 0.005 χ^2 /NDF: 8006.8/13

Left: 21.692 $\pm$ 0.003 χ^2 /NDF: 17911.8/28

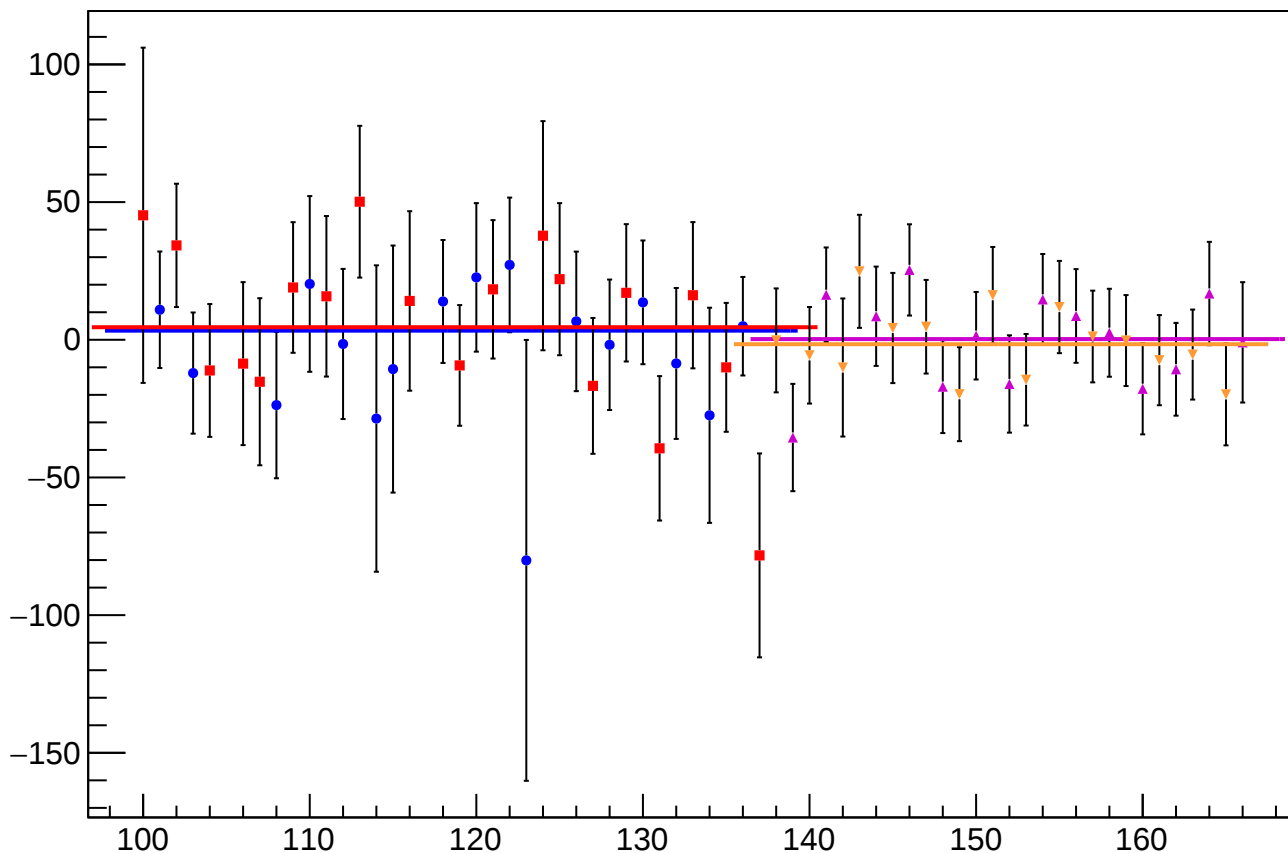
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.758 $\pm$ 0.004 χ^2 /NDF: 28404.6/30

Out: 21.843 $\pm$ 0.004 χ^2 /NDF: 26336.3/33

All: 21.801 $\pm$ 0.003 χ^2 /NDF: 55018.3/64

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: 0.256+/-4.633 χ^2/NDF : 12.1/13

Left: -0.686+/-3.260 χ^2/NDF : 18.8/28

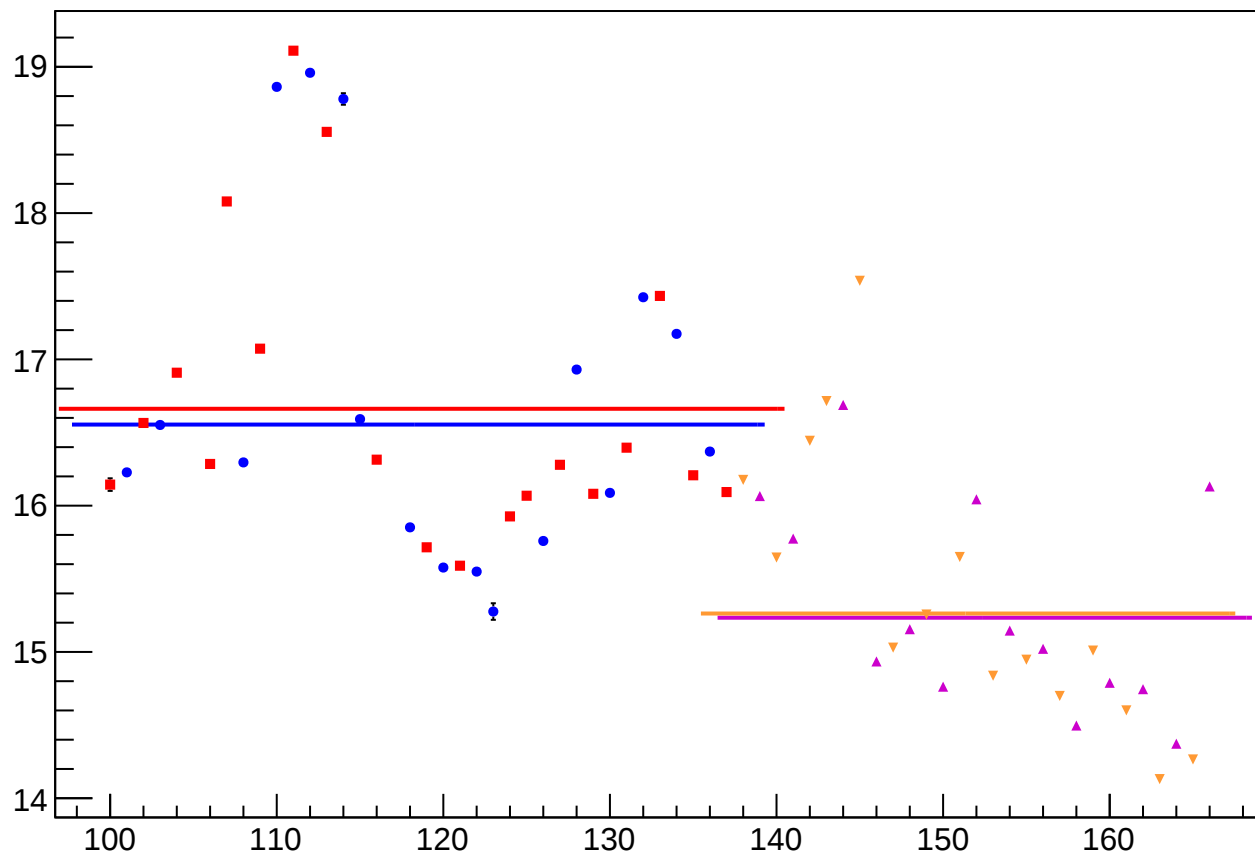
Right: 3.953+/-4.465 χ^2/NDF : 24.0/35

In: 1.311+/-3.751 χ^2/NDF : 18.5/30

Out: 0.554+/-3.697 χ^2/NDF : 25.0/33

All: 0.927+/-2.633 χ^2/NDF : 43.5/64

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: 15.234 $\pm$ 0.003 χ^2 /NDF: 40622.2/13

Left: 15.248 $\pm$ 0.002 χ^2 /NDF: 111397.4/28

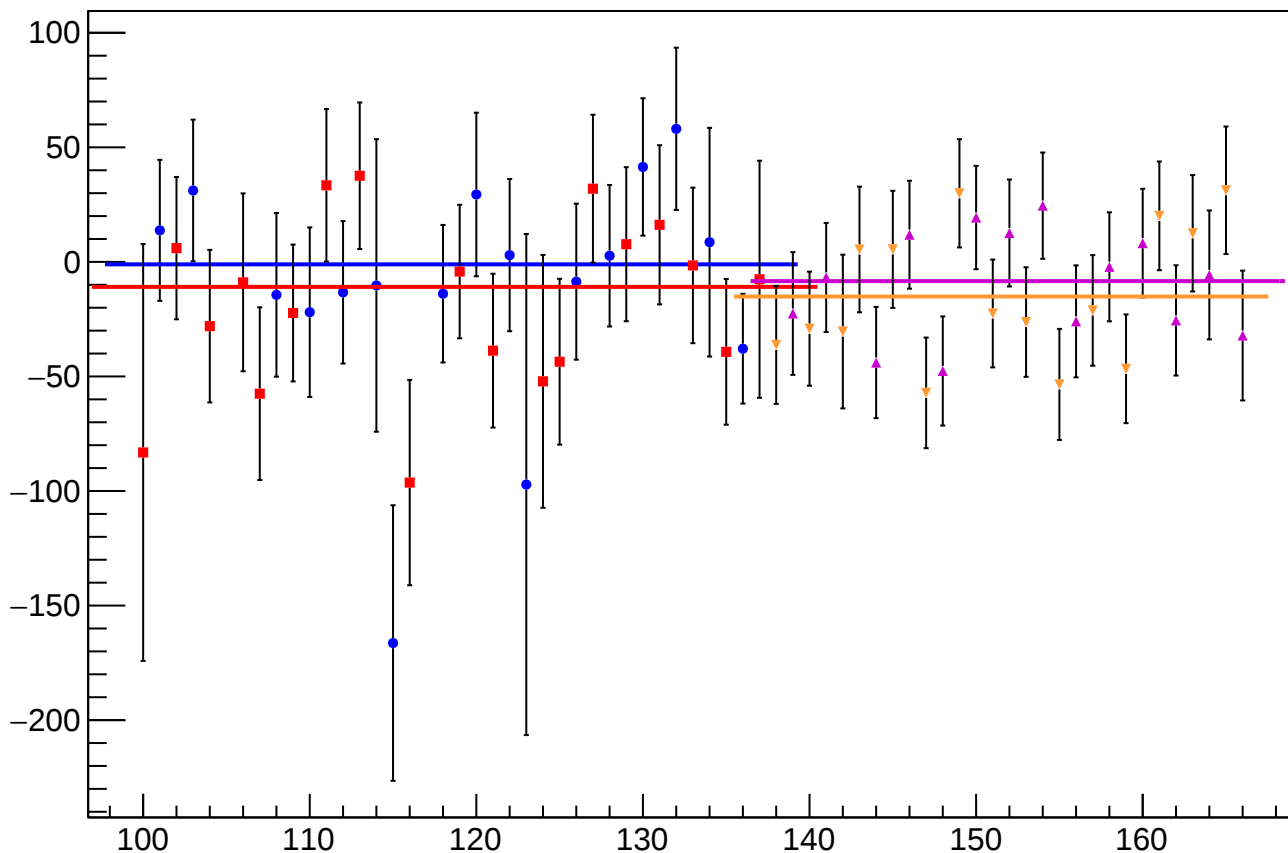
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.689 $\pm$ 0.003 χ^2 /NDF: 141087.1/30

Out: 15.753 $\pm$ 0.003 χ^2 /NDF: 179072.5/33

All: 15.722 $\pm$ 0.002 χ^2 /NDF: 320456.8/64

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: -8.397 ± 6.519 χ^2/NDF : 12.5/13

Left: -11.774 ± 4.599 χ^2/NDF : 32.9/28

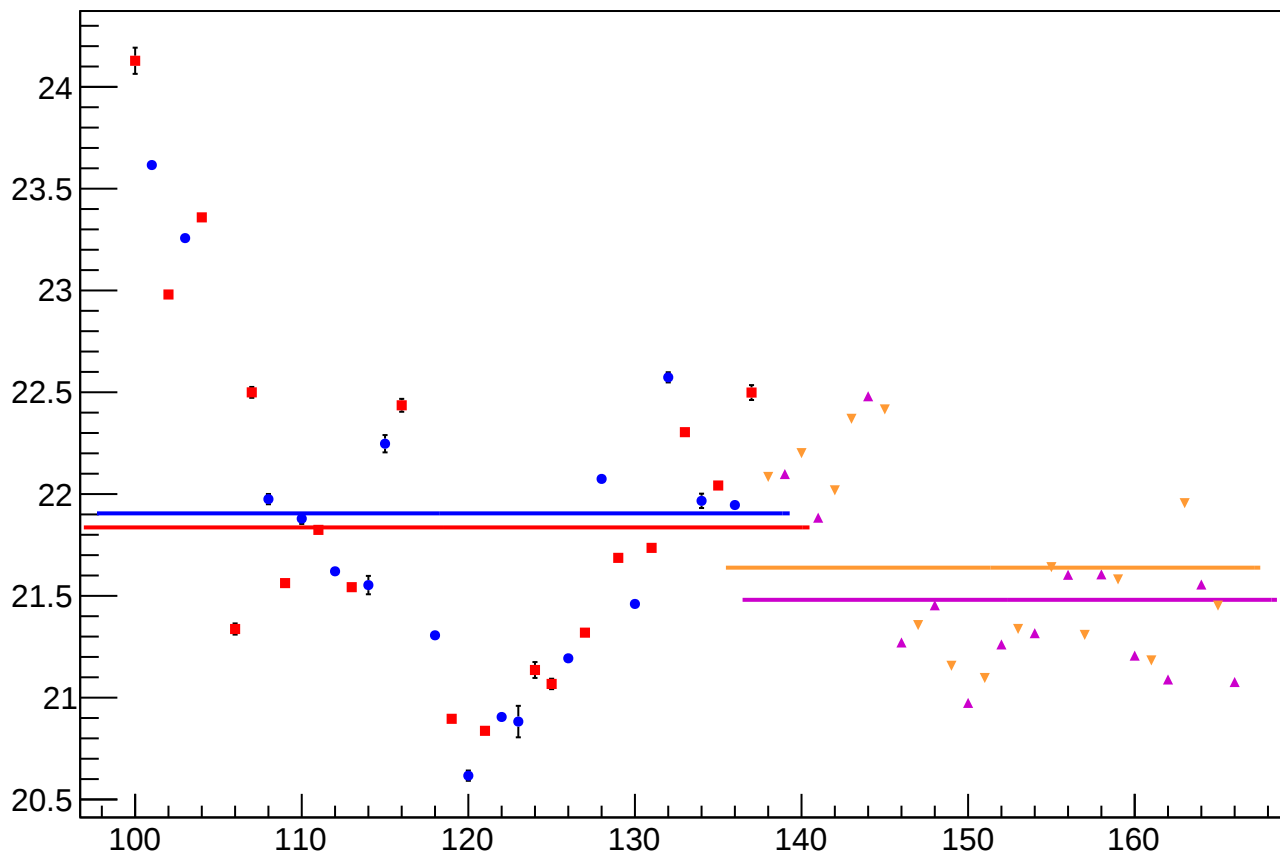
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -5.660 ± 5.160 χ^2/NDF : 31.4/30

Out: -13.487 ± 5.081 χ^2/NDF : 36.3/33

All: -9.634 ± 3.620 χ^2/NDF : 68.9/64

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.905 $\pm$ 0.006 χ^2 /NDF: 17794.2/16

Left Out: 21.639 $\pm$ 0.005 χ^2 /NDF: 9157.6/14

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.481 $\pm$ 0.005 χ^2 /NDF: 7797.3/13

Left: 21.560 $\pm$ 0.003 χ^2 /NDF: 17544.9/28

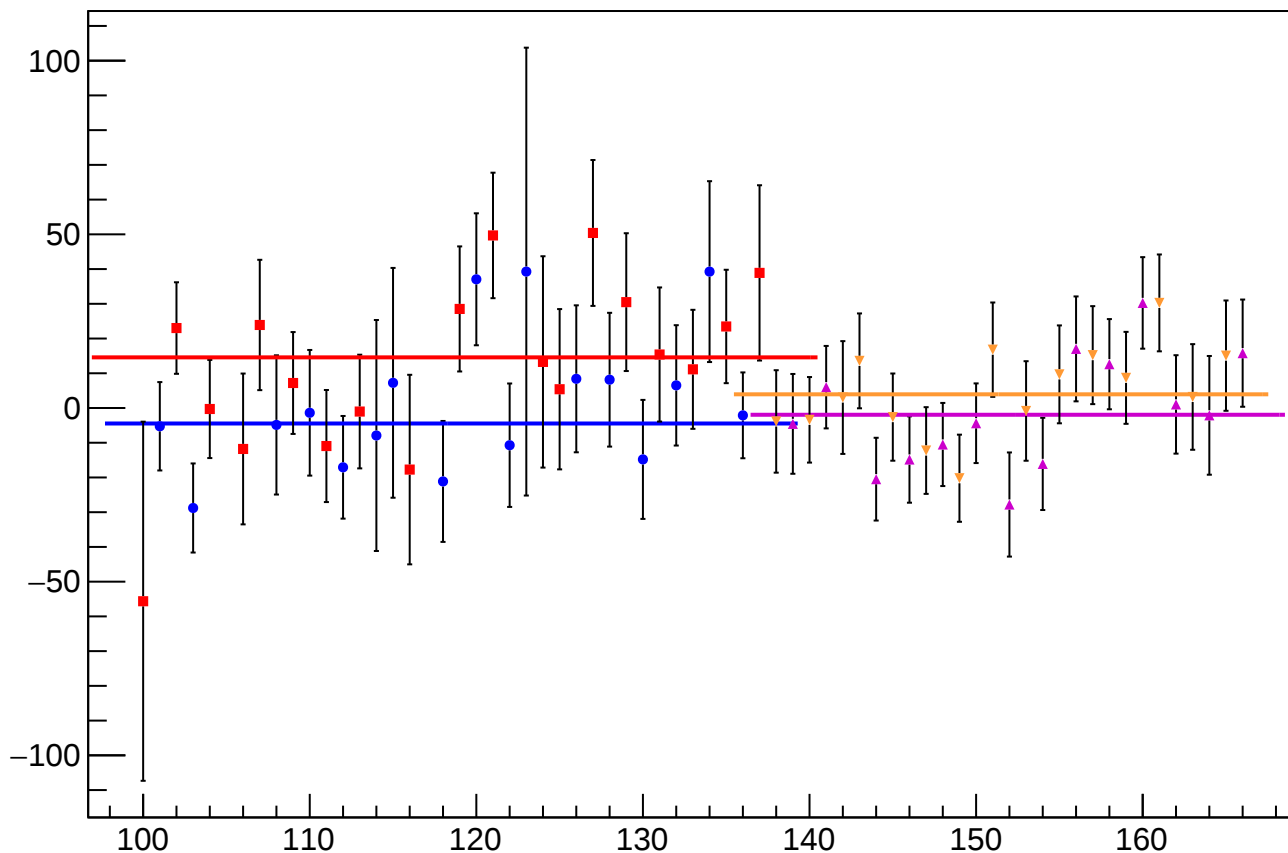
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.639 $\pm$ 0.004 χ^2 /NDF: 28760.5/30

Out: 21.715 $\pm$ 0.004 χ^2 /NDF: 26127.0/33

All: 21.678 $\pm$ 0.003 χ^2 /NDF: 55107.1/64

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: 3.941 ± 3.559 χ^2/NDF : 12.8/14

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -1.948 ± 3.561 χ^2/NDF : 18.8/13

Left: 0.999 ± 2.517 χ^2/NDF : 33.0/28

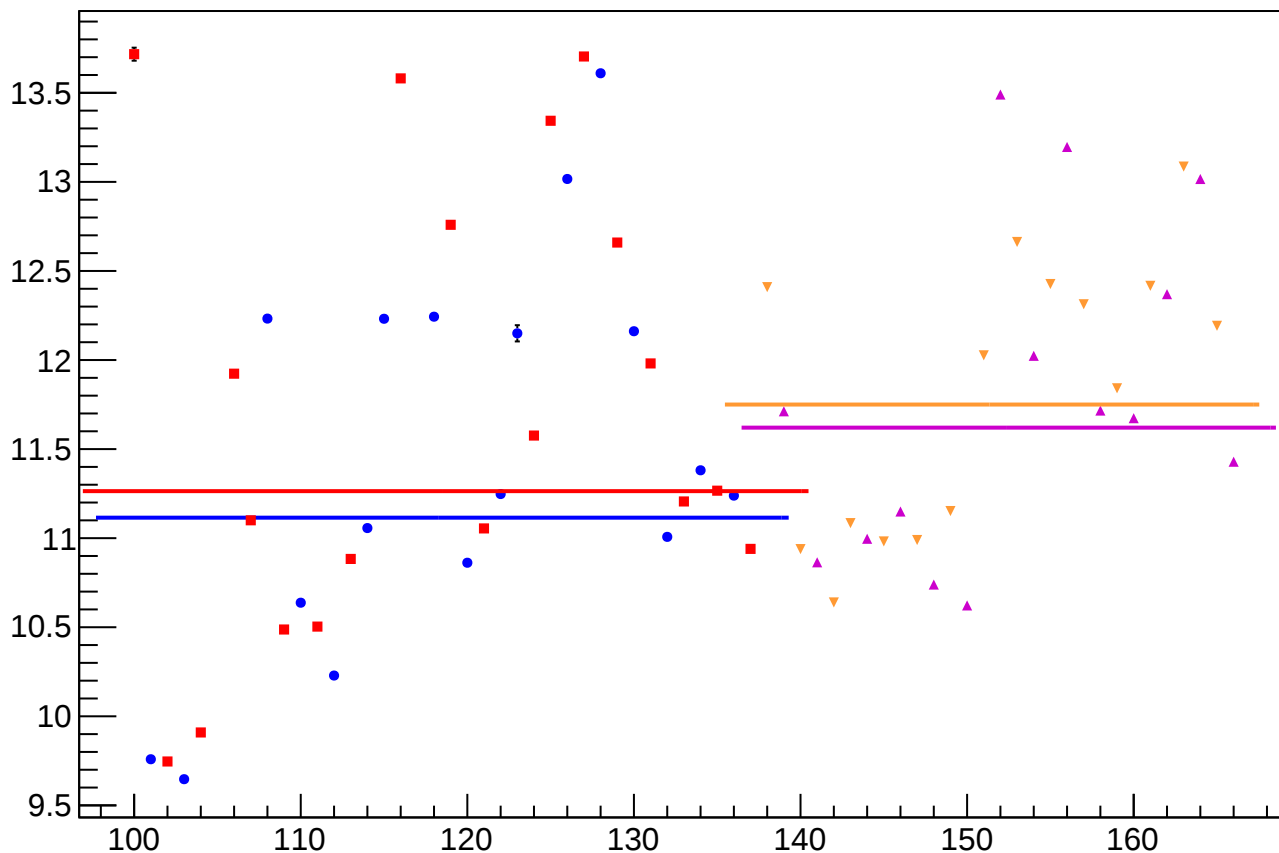
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -2.962 ± 2.750 χ^2/NDF : 34.2/30

Out: 8.309 ± 2.732 χ^2/NDF : 36.0/33

All: 2.710 ± 1.938 χ^2/NDF : 78.6/64

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115 $\pm$ 0.003 χ^2 /NDF: 133059.3/16

Left Out: 11.750 $\pm$ 0.003 χ^2 /NDF:84640.4/14

Right Out: 11.264 $\pm$ 0.003 χ^2 /NDF: 147483.5/18

Left In: 11.620 $\pm$ 0.003 χ^2 /NDF:116639.6/13

Left: 11.685 $\pm$ 0.002 χ^2 /NDF: 202606.8/28

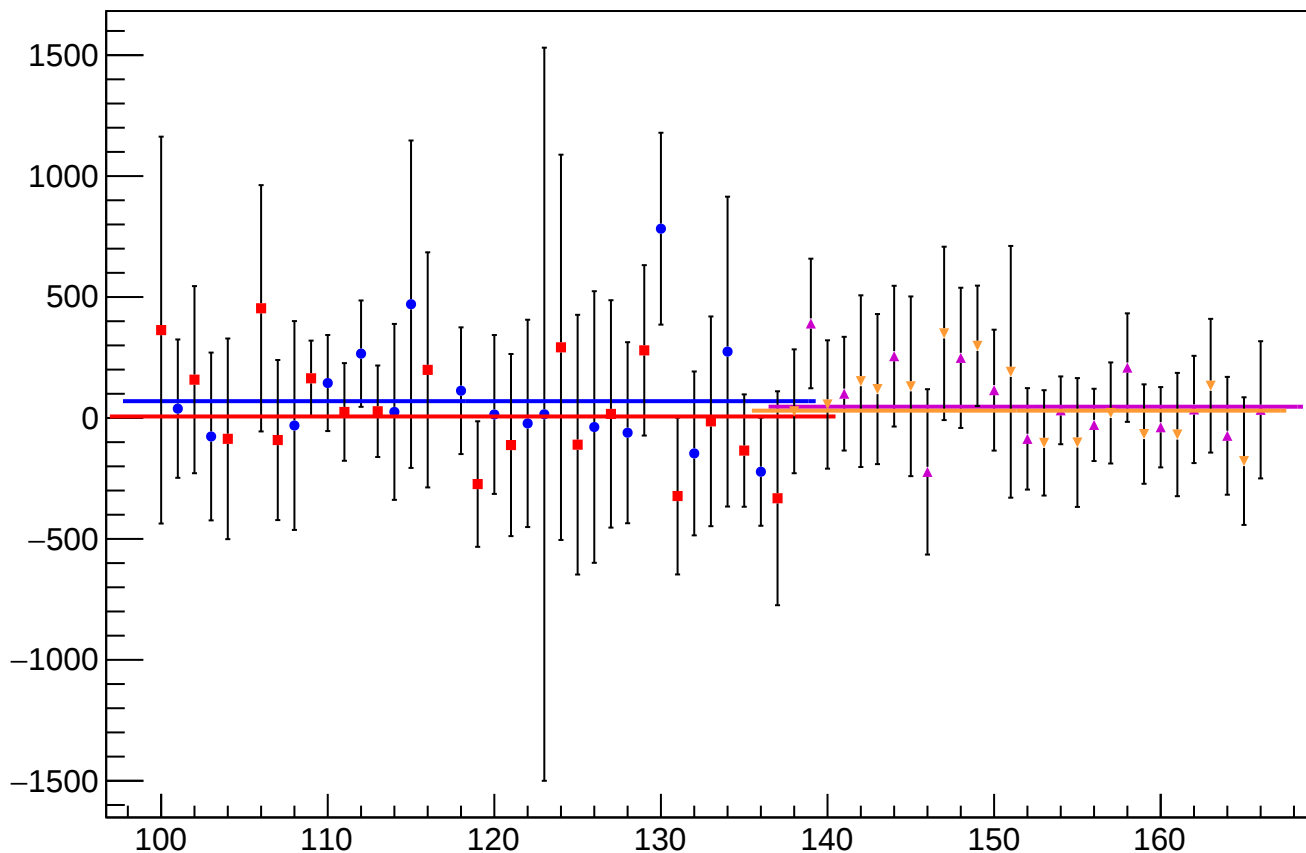
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.416 $\pm$ 0.002 χ^2 /NDF:265955.3/30

Out: 11.551 $\pm$ 0.002 χ^2 /NDF:247446.9/33

All: 11.484 $\pm$ 0.001 χ^2 /NDF: 515795.0/64

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: 46.563 $\pm$ 57.301 χ^2 /NDF:5.1/13

Left: 39.981 $\pm$ 44.202 χ^2 /NDF: 9.2/28

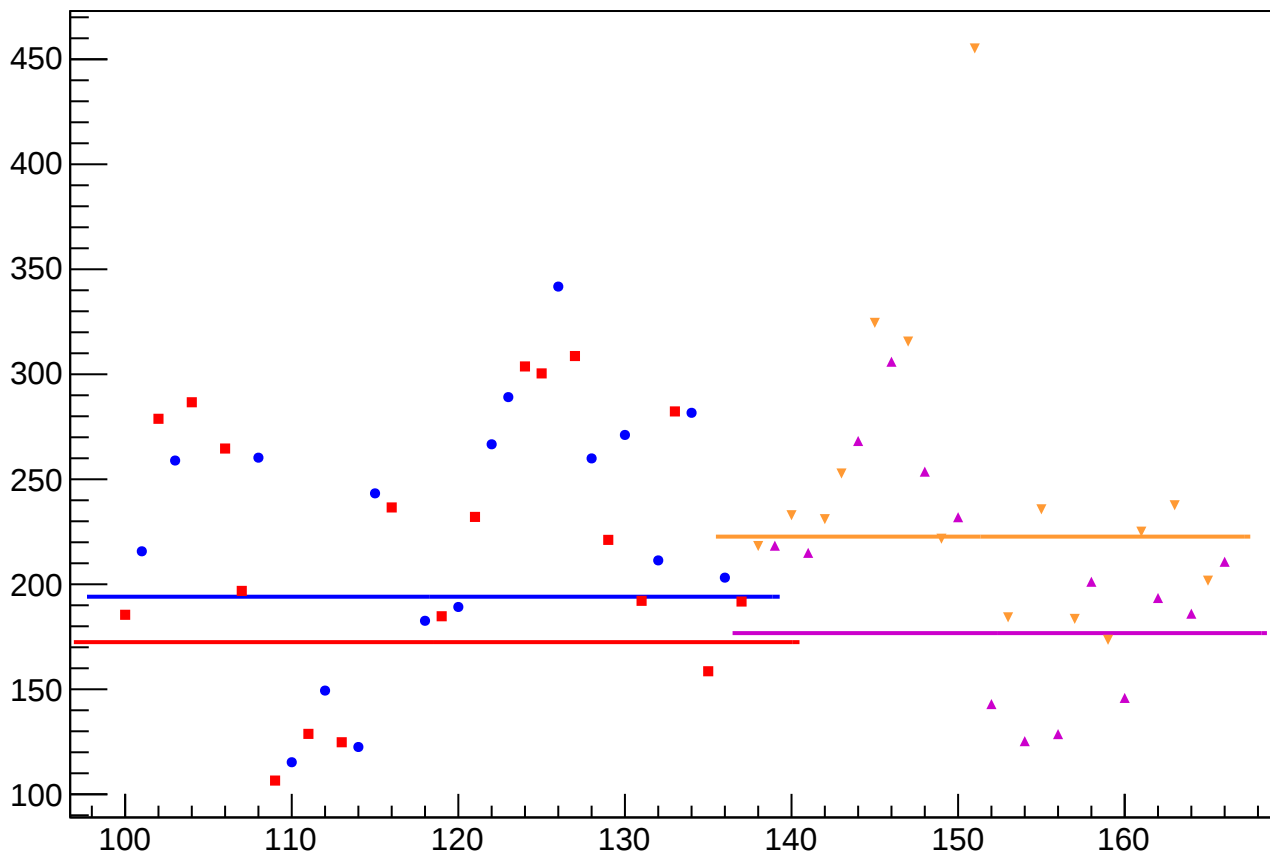
Right: 34.014 $\pm$ 52.536 χ^2 /NDF: 14.1/35

In: 54.430 $\pm$ 46.431 χ^2 /NDF:12.4/30

Out: 18.376 $\pm$ 49.370 χ^2 /NDF:10.6/33

All: 37.508 $\pm$ 33.823 χ^2 /NDF: 23.3/64

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 222.697 $\pm$ 0.049 χ^2 /NDF: 977476.8/14

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 176.749 $\pm$ 0.041 χ^2 /NDF: 1487672.6/13

Left: 195.355 $\pm$ 0.031 χ^2 /NDF: 2985910.4/28

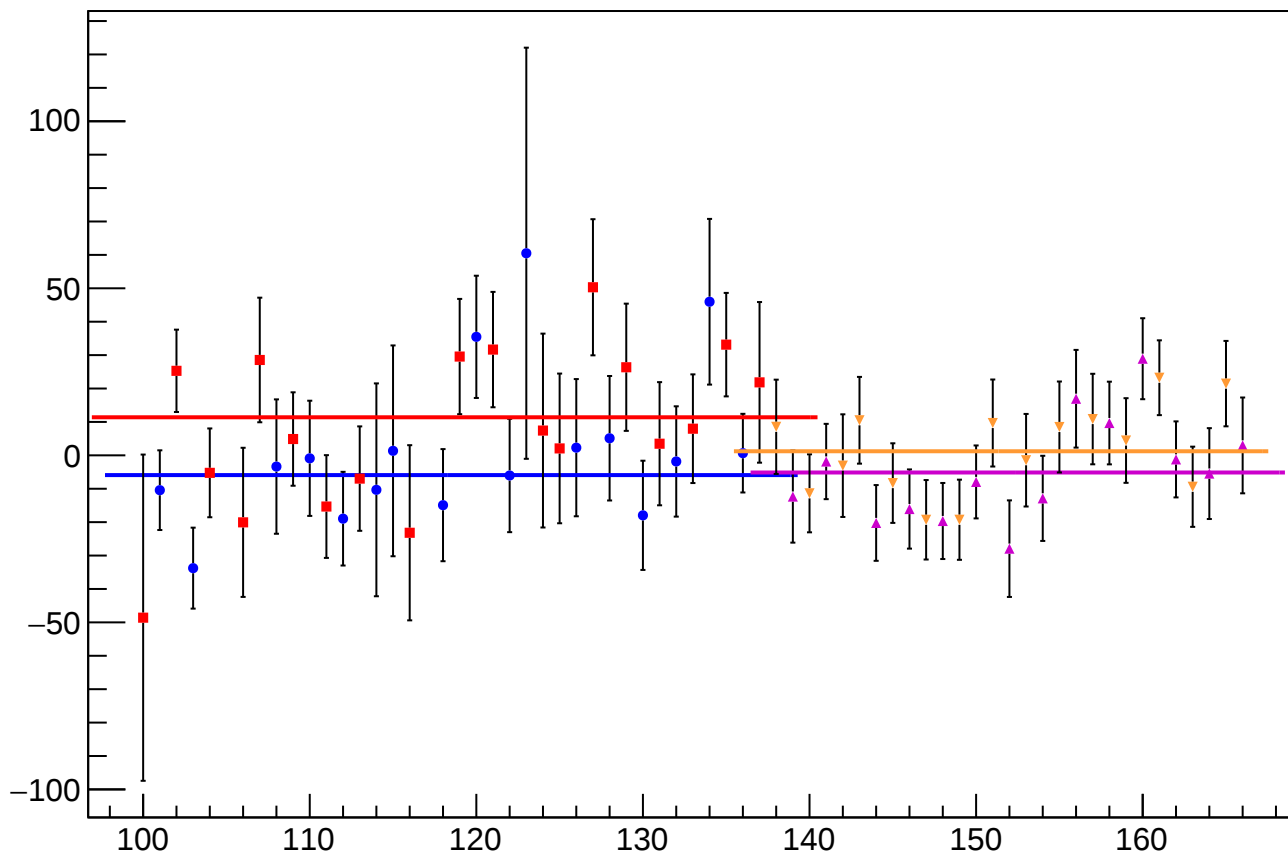
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 182.701 $\pm$ 0.033 χ^2 /NDF: 2555913.3/30

Out: 197.834 $\pm$ 0.035 χ^2 /NDF: 3064775.8/33

All: 189.803 $\pm$ 0.024 χ^2 /NDF: 5720399.4/64

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: -5.137 ± 3.313 χ^2/NDF : 19.6/13

Left: -1.928 ± 2.332 χ^2/NDF : 38.5/28

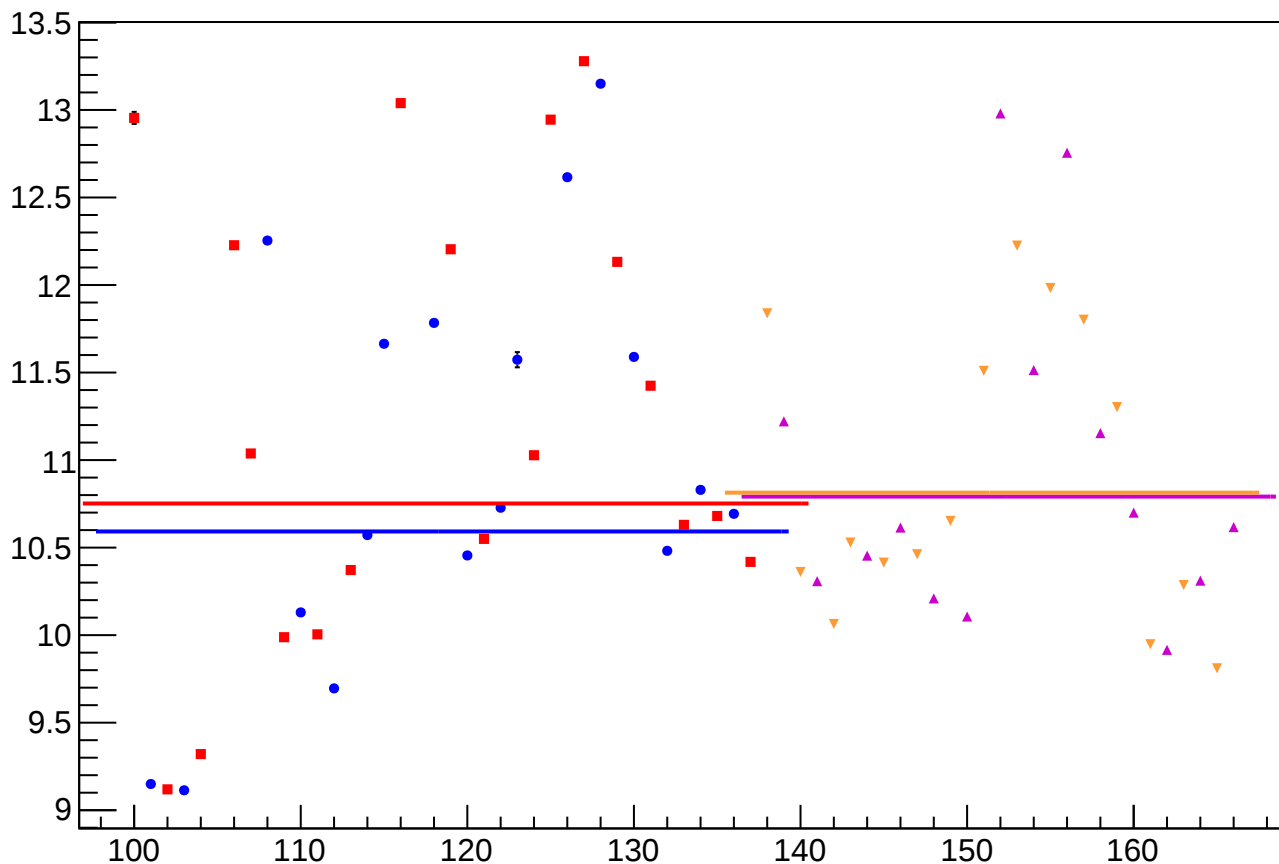
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.440 ± 2.585 χ^2/NDF : 38.4/30

Out: 5.219 ± 2.557 χ^2/NDF : 43.7/33

All: -0.052 ± 1.818 χ^2/NDF : 90.7/64

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: 10.791 $\pm$ 0.002 χ^2 /NDF:125756.9/13

Left: 10.803 $\pm$ 0.002 χ^2 /NDF: 232433.1/28

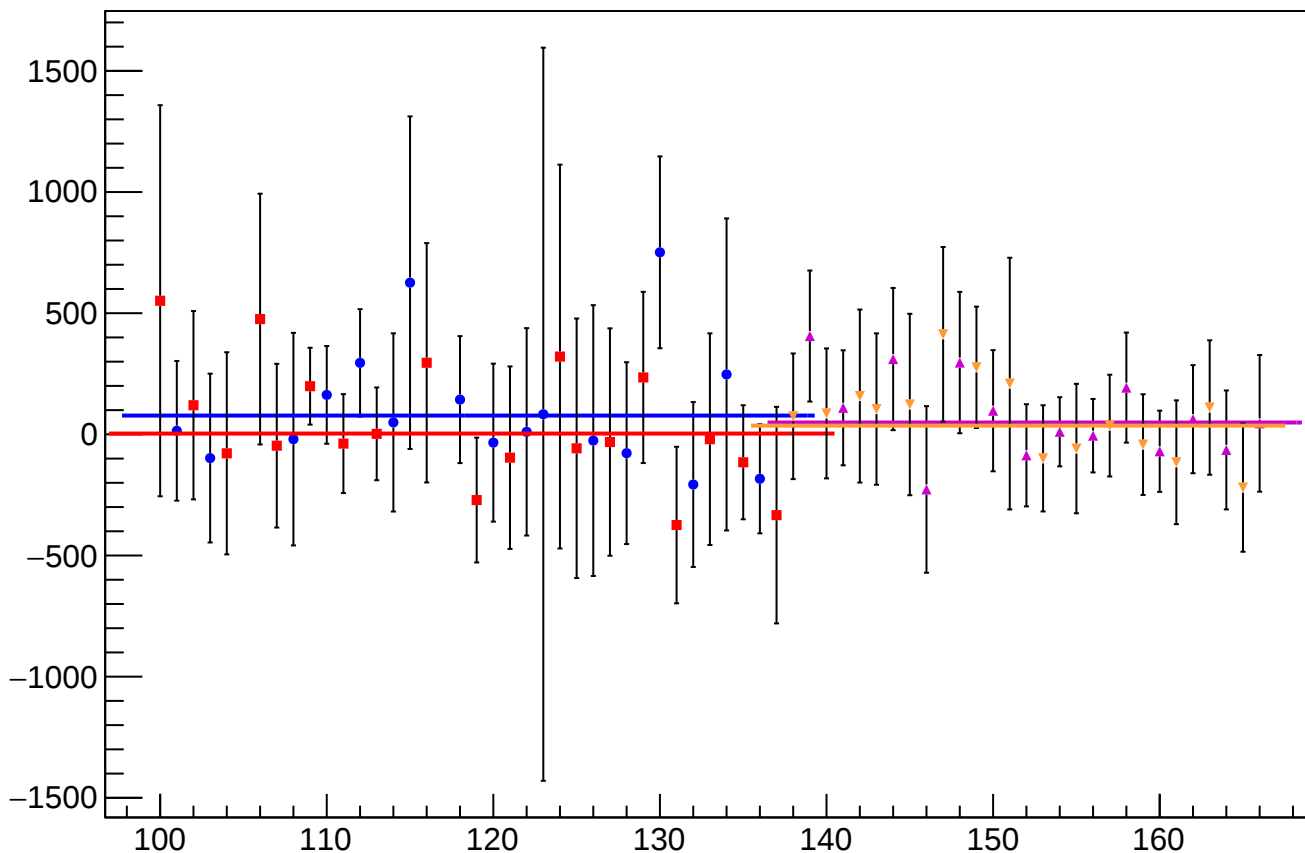
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.713 $\pm$ 0.002 χ^2 /NDF:288981.7/30

Out: 10.790 $\pm$ 0.002 χ^2 /NDF:283805.2/33

All: 10.752 $\pm$ 0.001 χ^2 /NDF: 573664.7/64

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: 48.852 $\pm$ 57.873 χ^2 /NDF:5.7/13

Left: 43.635 $\pm$ 44.580 χ^2 /NDF: 10.2/28

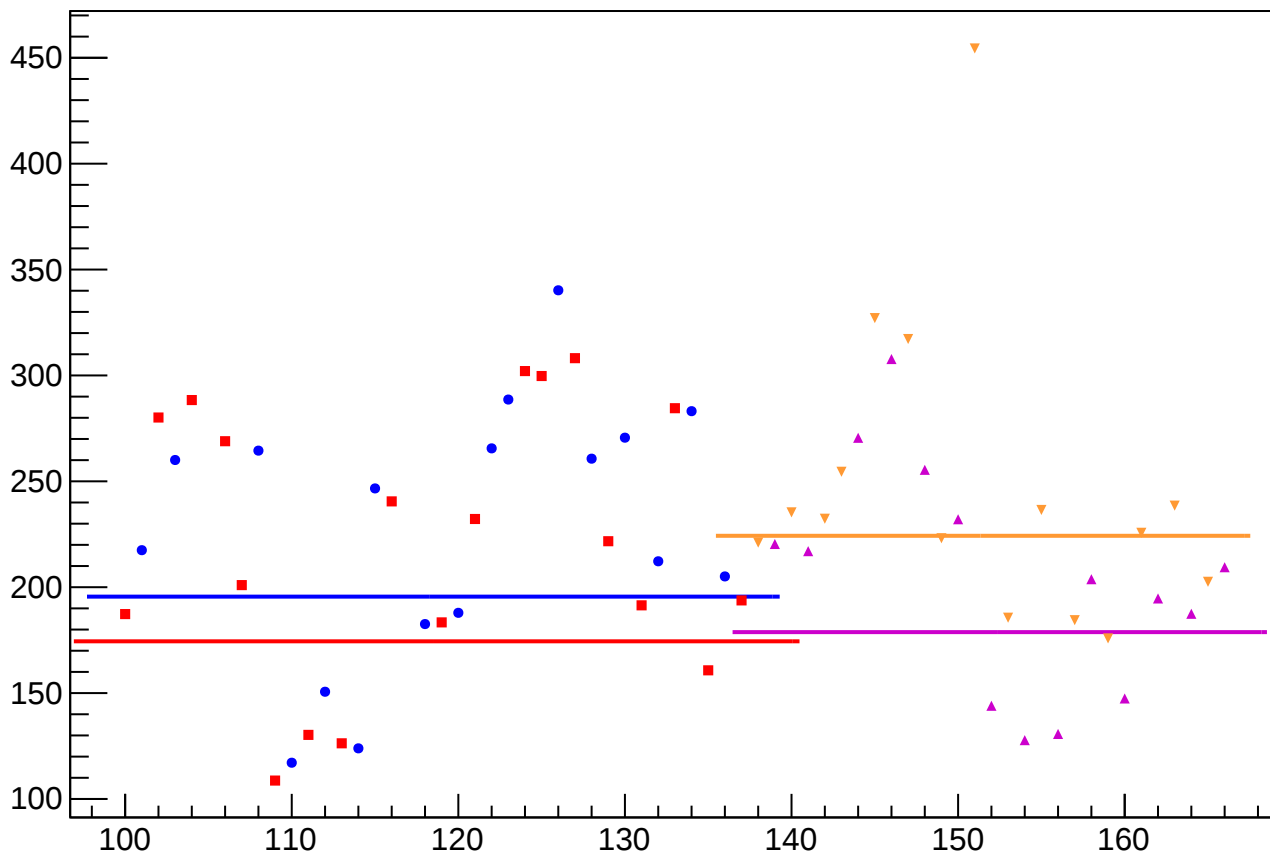
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 58.765 $\pm$ 46.840 χ^2 /NDF:13.4/30

Out: 19.883 $\pm$ 49.765 χ^2 /NDF:11.9/33

All: 40.500 $\pm$ 34.108 χ^2 /NDF: 25.6/64

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: 178.788+/-0.041 χ^2/NDF : 1446620.0/13

Left: 197.286+/-0.032 χ^2/NDF : 2915176.9/28

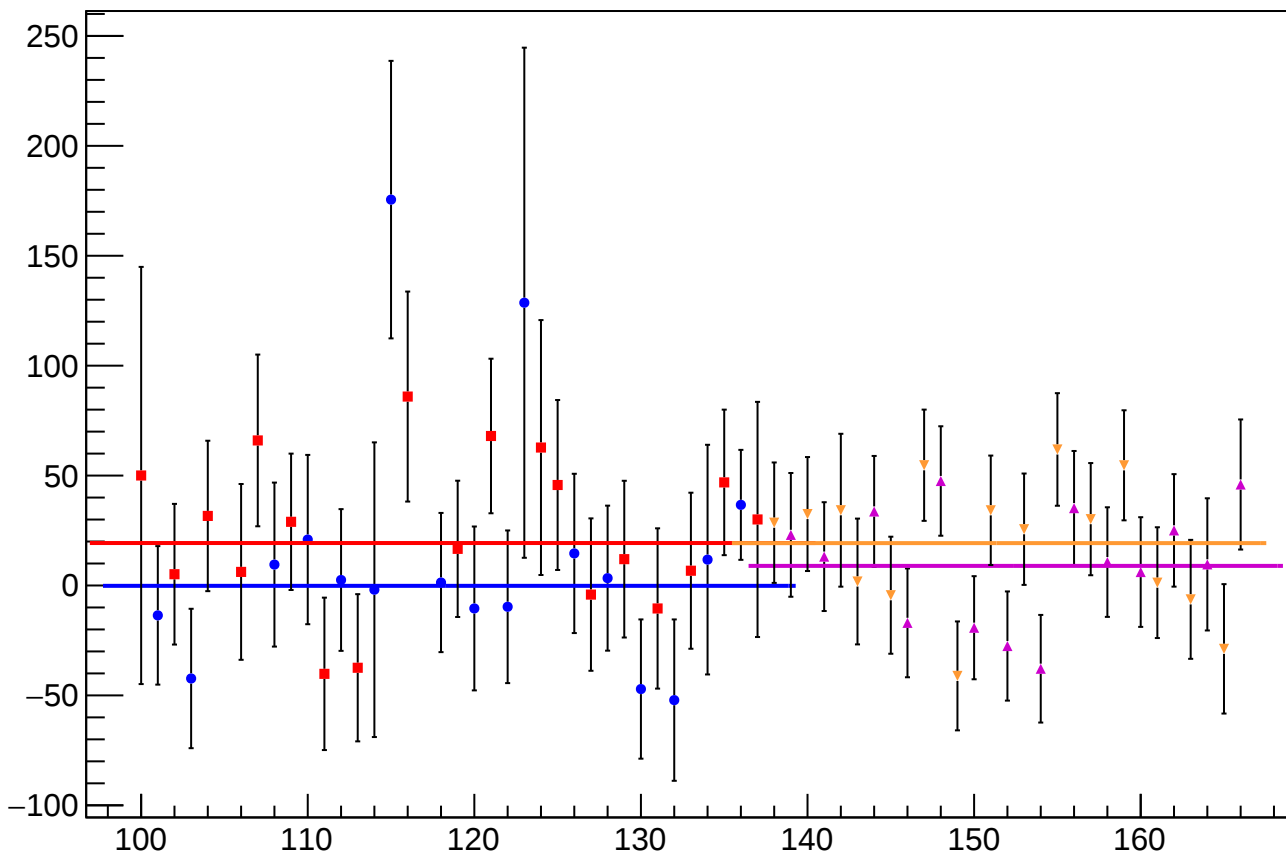
Right: 183.758+/-0.037 χ^2/NDF : 2586820.6/35

In: 184.571+/-0.033 χ^2/NDF : 2484436.8/30

Out: 199.698+/-0.035 χ^2/NDF : 2995929.3/33

All: 191.677+/-0.024 χ^2/NDF : 5578356.8/64

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: 8.917 ± 6.854 $\chi^2/\text{NDF}: 15.0/13$

Left: 14.110 ± 4.841 $\chi^2/\text{NDF}: 35.2/28$

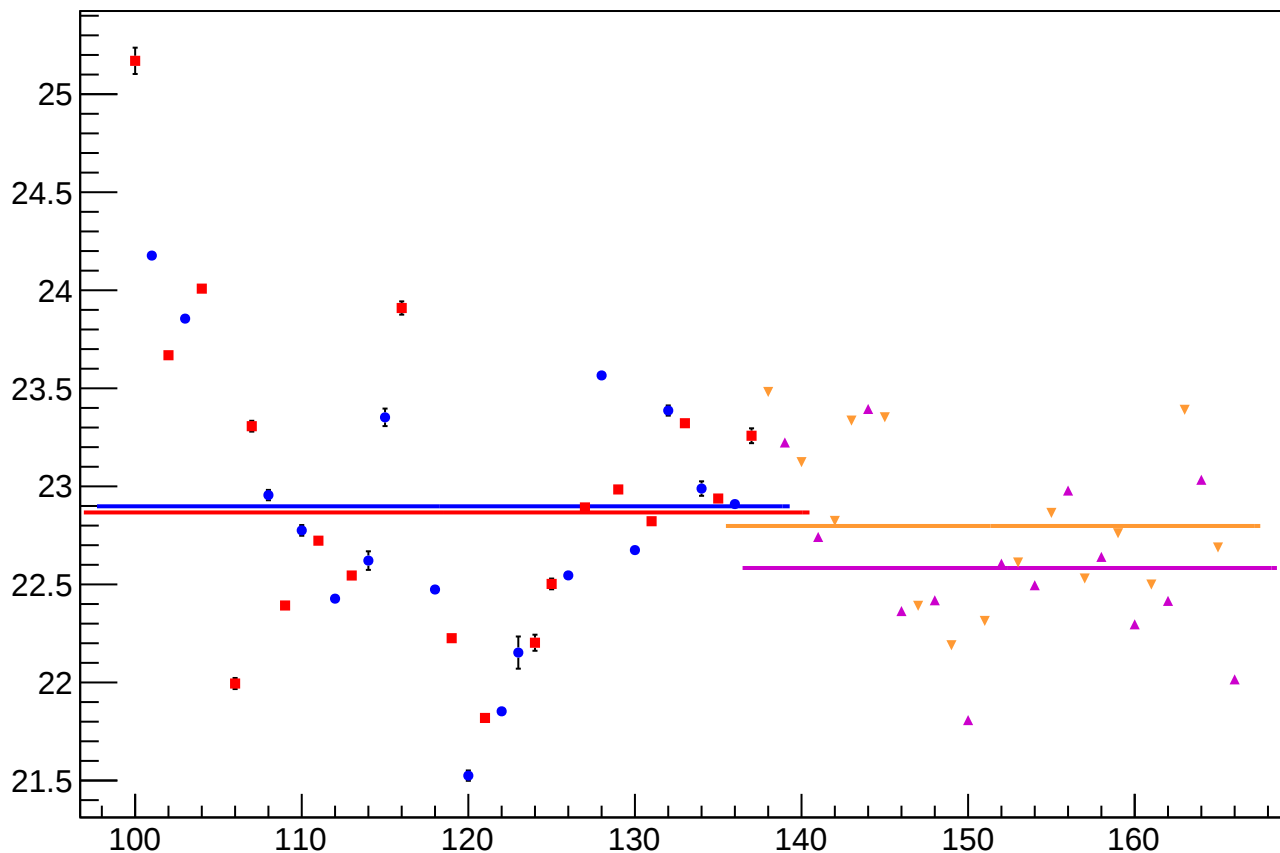
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 5.503 ± 5.414 $\chi^2/\text{NDF}: 33.7/30$

Out: 19.292 ± 5.340 $\chi^2/\text{NDF}: 33.9/33$

All: 12.491 ± 3.802 $\chi^2/\text{NDF}: 70.9/64$

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: 22.584 $\pm$ 0.005 χ^2 /NDF: 7644.8/13

Left: 22.691 $\pm$ 0.003 χ^2 /NDF: 15852.0/28

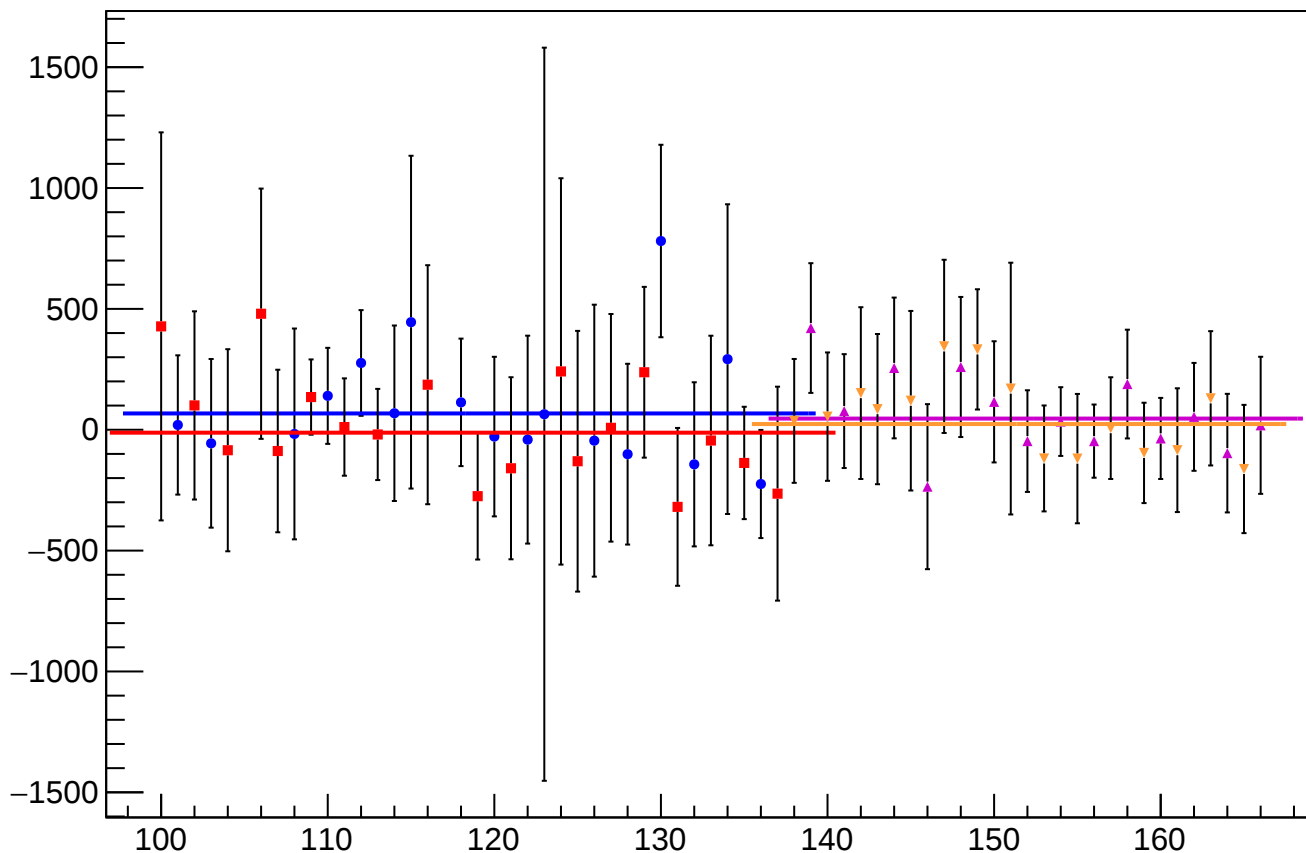
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.702 $\pm$ 0.004 χ^2 /NDF: 21373.1/30

Out: 22.825 $\pm$ 0.004 χ^2 /NDF: 18355.2/33

All: 22.764 $\pm$ 0.003 χ^2 /NDF: 40249.8/64

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: 46.177 $\pm$ 57.710 χ^2 /NDF:5.4/13

Left: 36.985 $\pm$ 44.462 χ^2 /NDF: 10.0/28

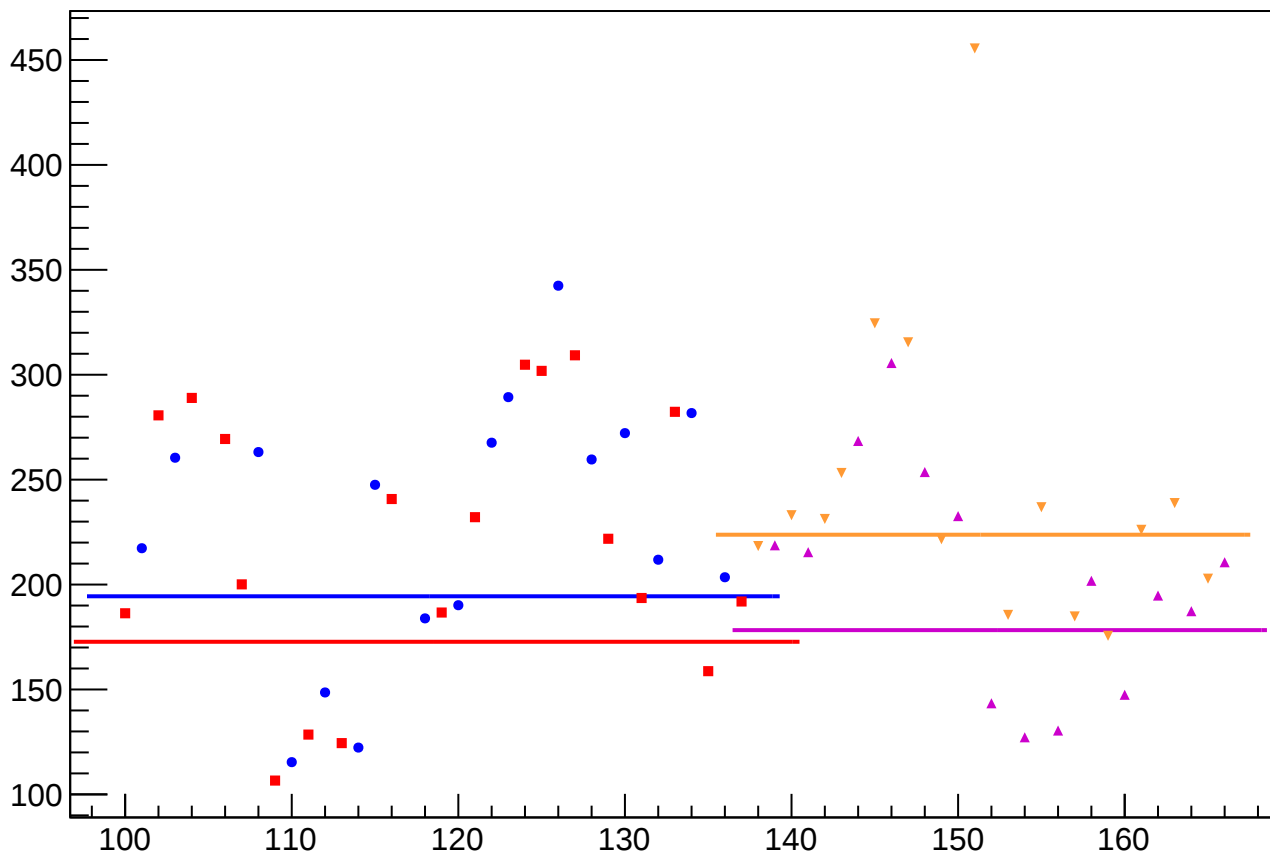
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 53.530 $\pm$ 46.683 χ^2 /NDF:12.8/30

Out: 5.877 $\pm$ 49.531 χ^2 /NDF:10.4/33

All: 31.113 $\pm$ 33.972 χ^2 /NDF: 23.7/64

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411+/-0.056 χ^2/NDF : 1019913.2/16

Left Out: 223.757+/-0.049 χ^2/NDF : 956880.2/14

Right Out: 172.730+/-0.050 χ^2/NDF : 1596758.0/18

Left In: 178.284+/-0.041 χ^2/NDF : 1436018.6/13

Left: 196.765+/-0.031 χ^2/NDF : 2897582.1/28

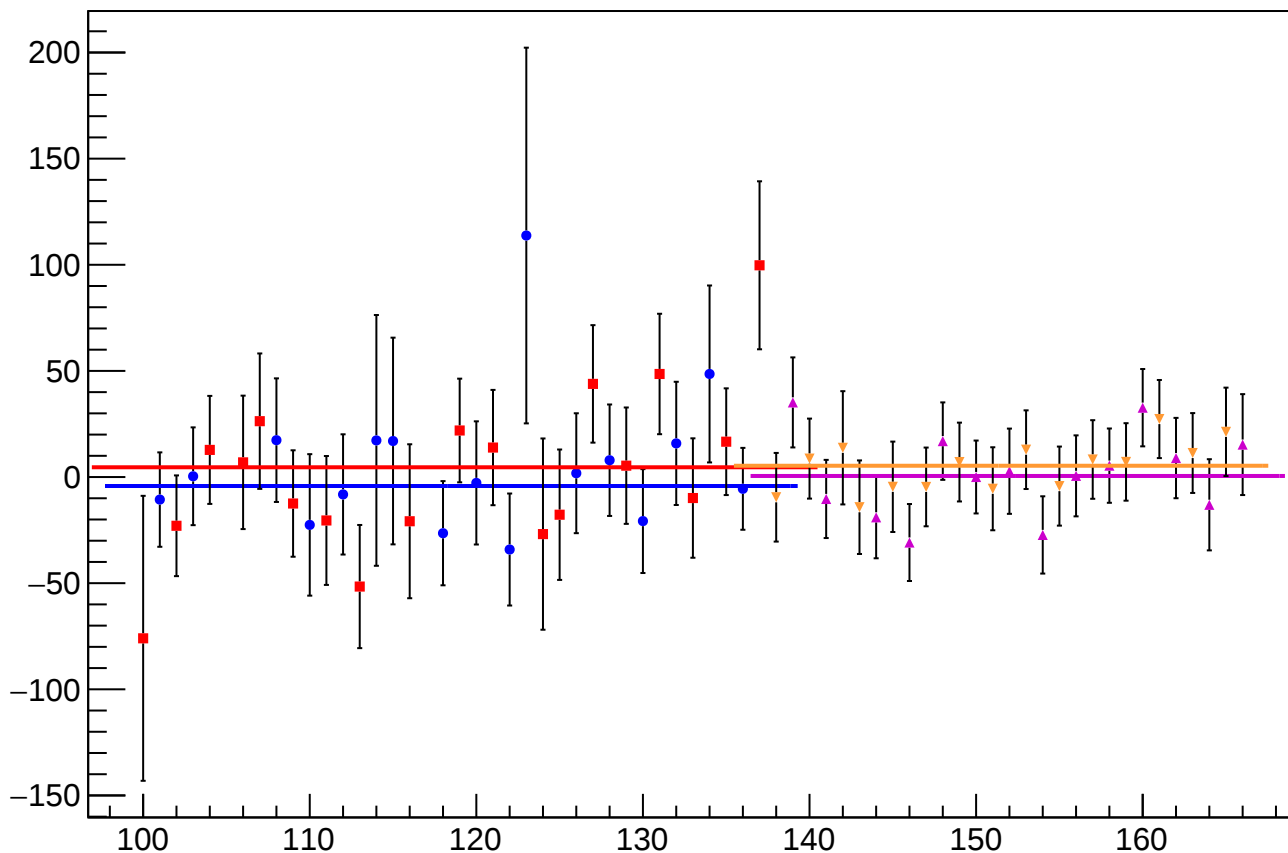
Right: 182.265+/-0.037 χ^2/NDF : 2700196.8/35

In: 183.858+/-0.033 χ^2/NDF : 2509914.6/30

Out: 198.467+/-0.035 χ^2/NDF : 3084256.8/33

All: 190.730+/-0.024 χ^2/NDF : 5686308.8/64

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 $\chi^2/\text{NDF}: 8.0/16$

Left Out: 5.323 ± 5.064 $\chi^2/\text{NDF}: 4.8/14$

Right Out: 4.599 ± 6.725 $\chi^2/\text{NDF}: 21.1/18$

Left In: 0.506 ± 5.093 $\chi^2/\text{NDF}: 14.4/13$

Left: 2.928 ± 3.591 $\chi^2/\text{NDF}: 19.6/28$

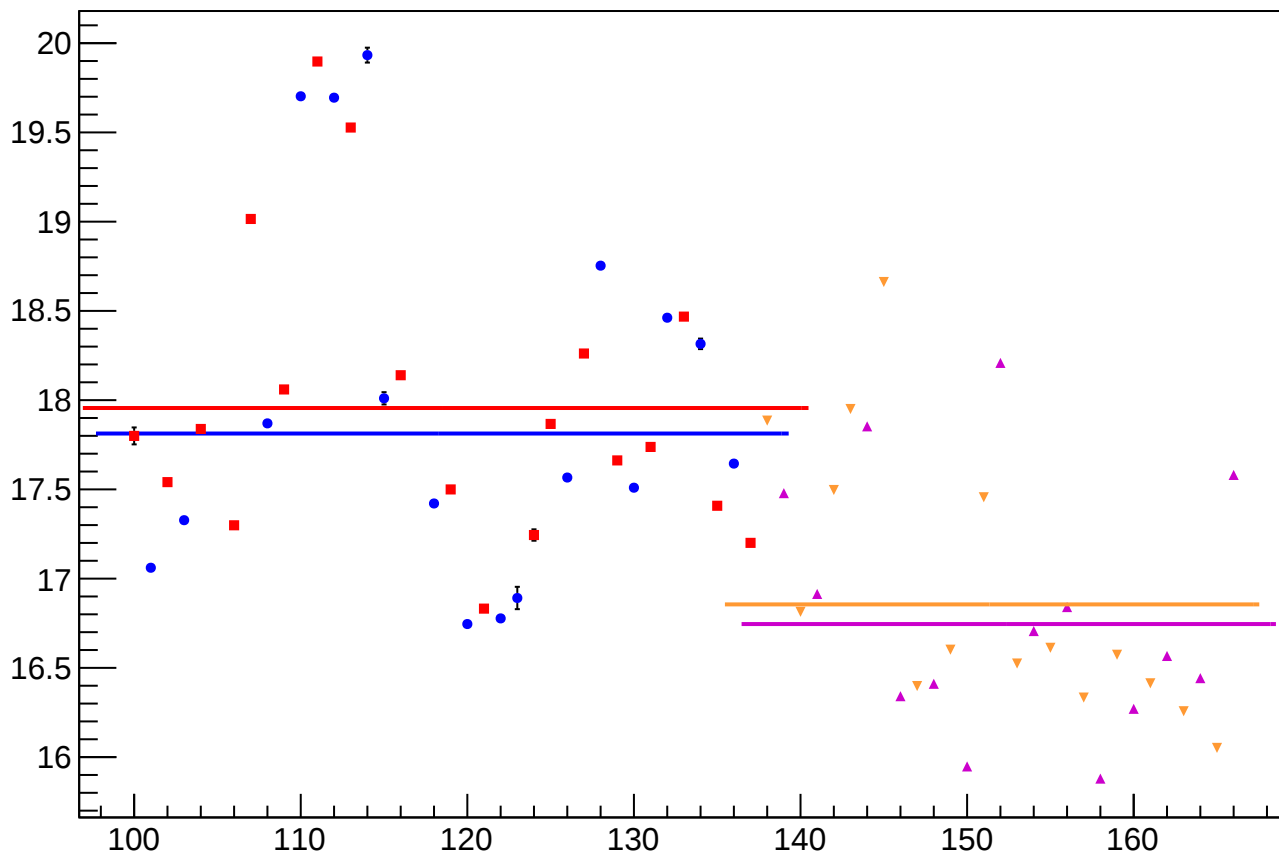
Right: 0.283 ± 4.806 $\chi^2/\text{NDF}: 29.9/35$

In: -1.171 ± 4.092 $\chi^2/\text{NDF}: 22.7/30$

Out: 5.061 ± 4.045 $\chi^2/\text{NDF}: 25.9/33$

All: 1.981 ± 2.877 $\chi^2/\text{NDF}: 49.8/64$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 ± 0.005 $\chi^2/\text{NDF}: 32034.8/16$

Left Out: 16.856 ± 0.004 $\chi^2/\text{NDF}: 38037.0/14$

Right Out: 17.956 ± 0.005 $\chi^2/\text{NDF}: 25445.3/18$

Left In: 16.746 ± 0.004 $\chi^2/\text{NDF}: 35114.6/13$

Left: 16.801 ± 0.003 $\chi^2/\text{NDF}: 73621.9/28$

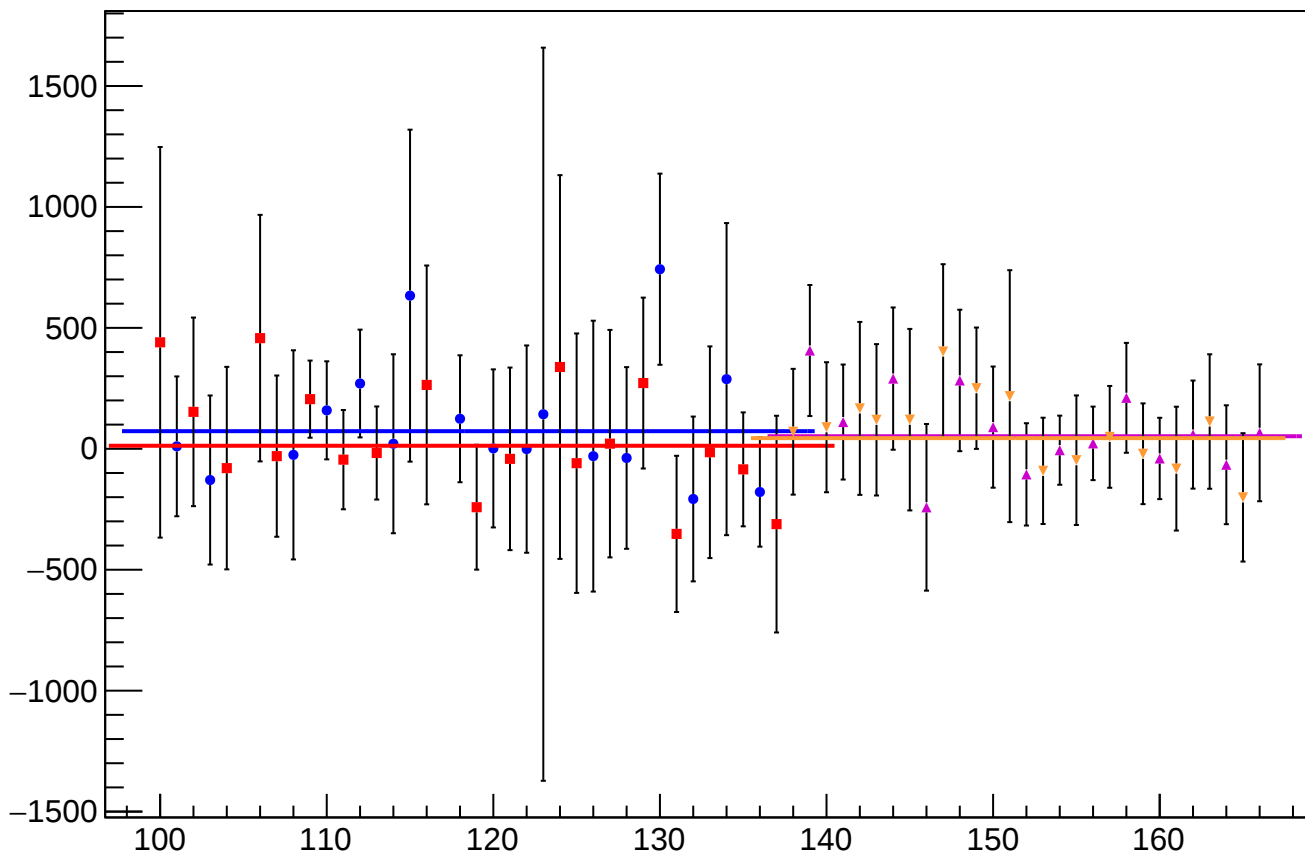
Right: 17.886 ± 0.003 $\chi^2/\text{NDF}: 57922.3/35$

In: 17.124 ± 0.003 $\chi^2/\text{NDF}: 98302.0/30$

Out: 17.254 ± 0.003 $\chi^2/\text{NDF}: 97650.8/33$

All: 17.190 ± 0.002 $\chi^2/\text{NDF}: 196969.4/64$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 44.093+/-70.068 χ^2/NDF : 3.8/14

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 51.965+/-57.993 χ^2/NDF : 5.6/13

Left: 48.765+/-44.676 χ^2/NDF : 9.4/28

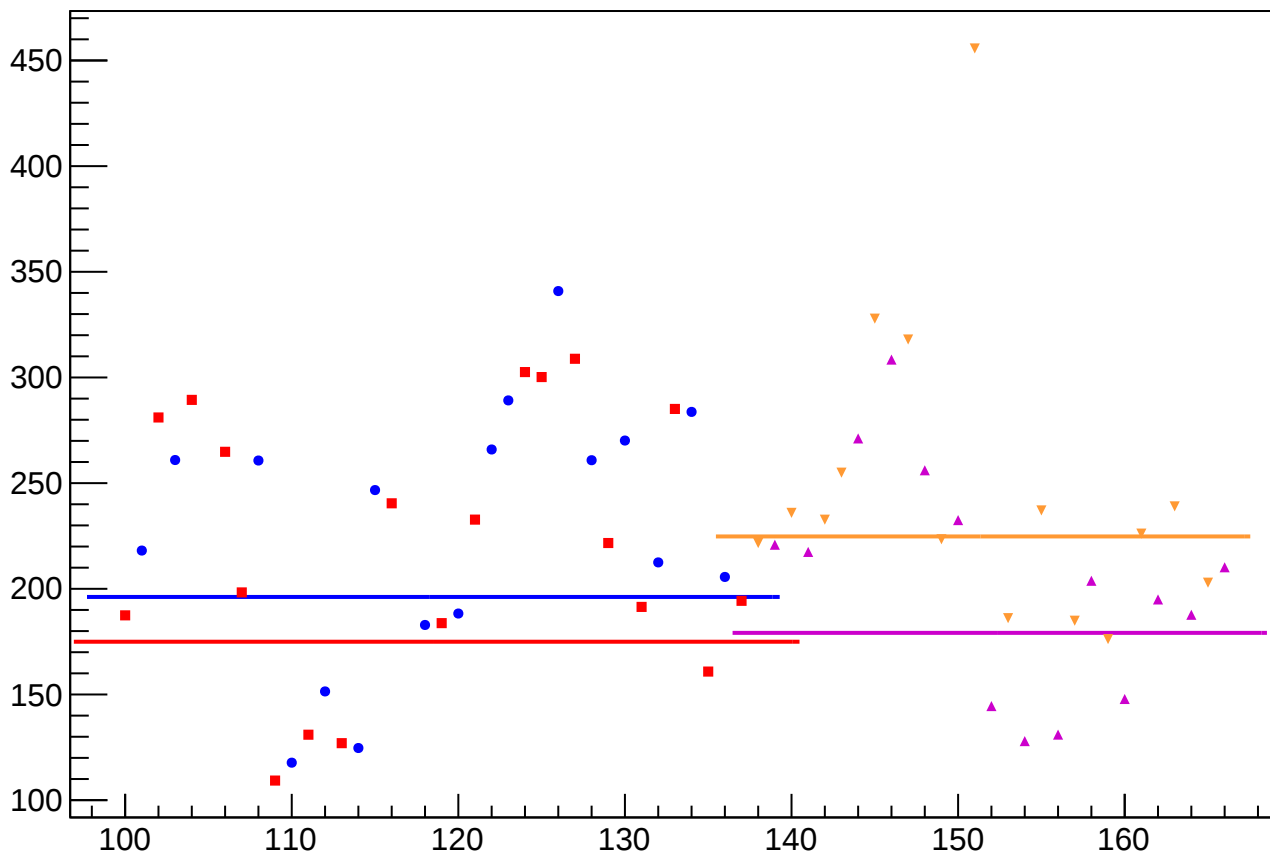
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 59.179+/-46.943 χ^2/NDF : 12.8/30

Out: 28.540+/-49.876 χ^2/NDF : 10.6/33

All: 44.787+/-34.184 χ^2/NDF : 23.7/64

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: 179.158+/-0.041 χ^2/NDF : 1446279.6/13

Left: 197.704+/-0.032 χ^2/NDF : 2915592.8/28

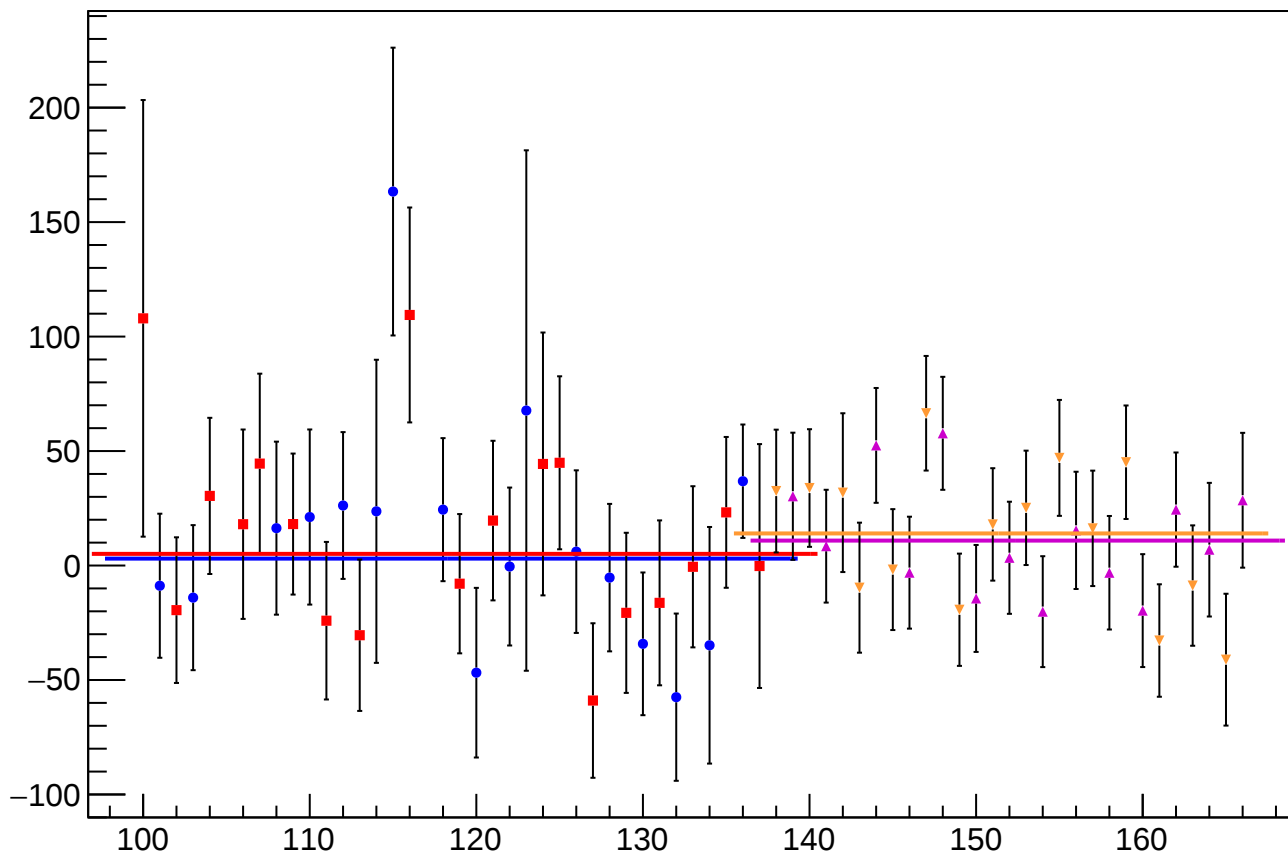
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 185.016+/-0.033 χ^2/NDF : 2470484.1/30

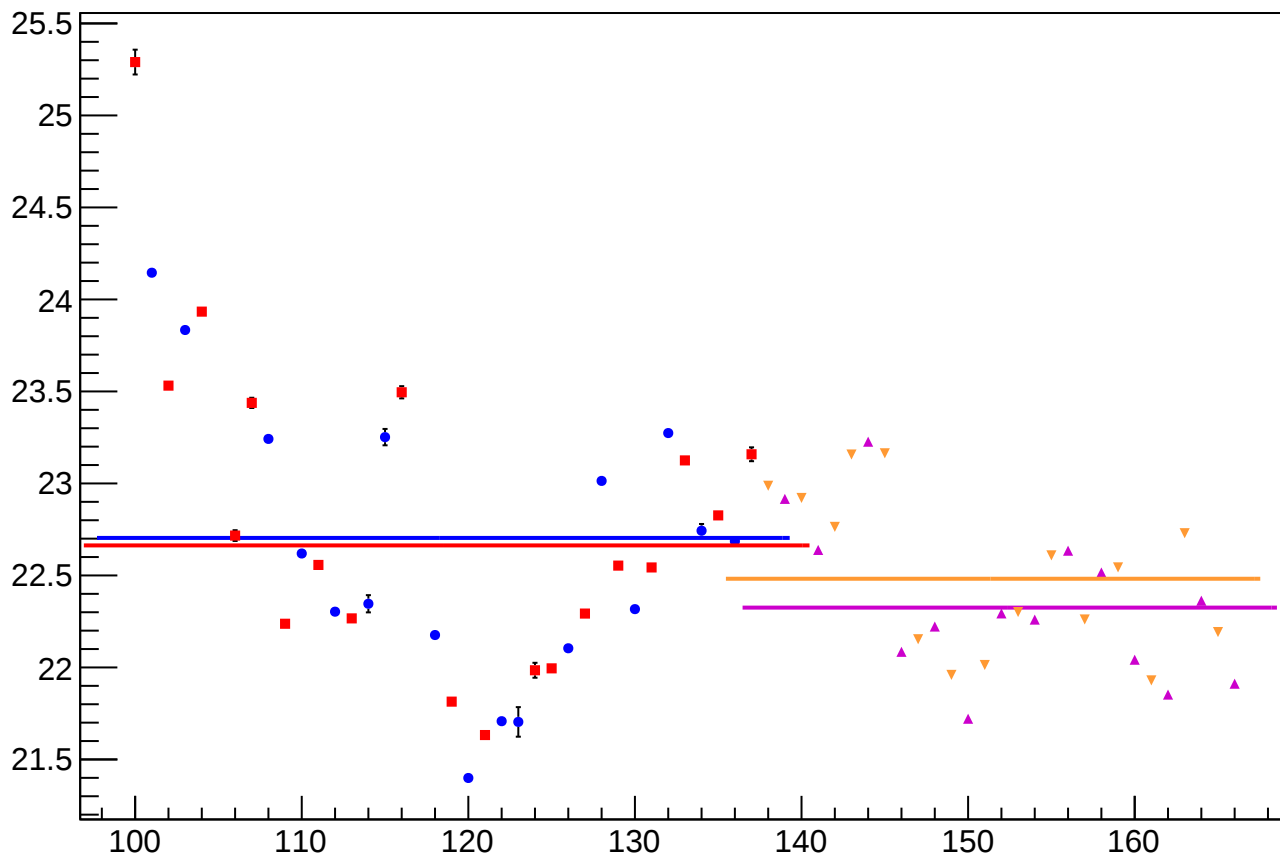
Out: 200.205+/-0.035 χ^2/NDF : 2975760.8/33

All: 192.151+/-0.024 χ^2/NDF : 5544600.2/64

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



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: 22.325 $\pm$ 0.005 χ^2 /NDF: 7186.8/13

Left: 22.404 $\pm$ 0.003 χ^2 /NDF: 15311.3/28

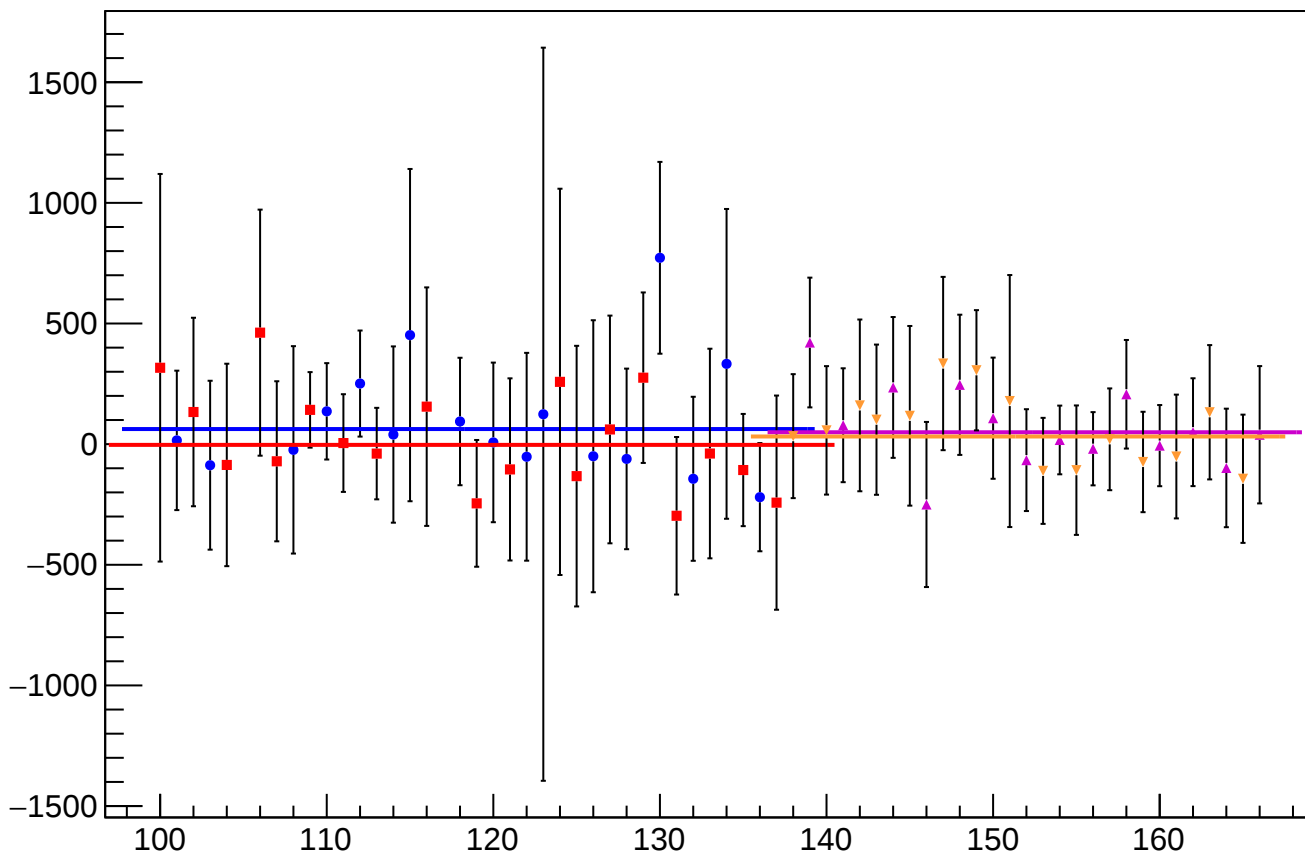
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.467 $\pm$ 0.004 χ^2 /NDF: 23634.9/30

Out: 22.552 $\pm$ 0.004 χ^2 /NDF: 21088.6/33

All: 22.510 $\pm$ 0.003 χ^2 /NDF: 44979.7/64

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: 49.222+/-57.829 χ^2/NDF : 5.1/13

Left: 42.109+/-44.557 χ^2/NDF : 9.0/28

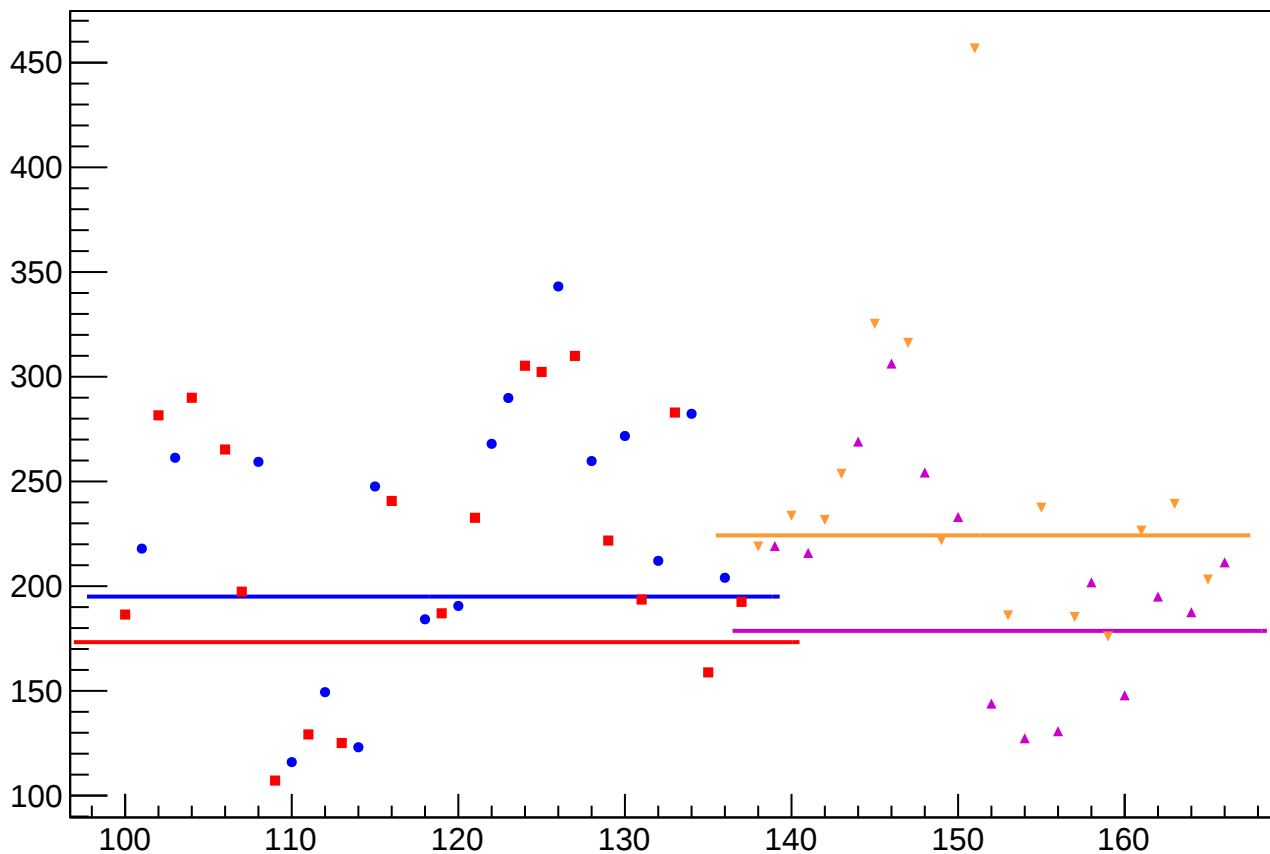
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 53.834+/-46.787 χ^2/NDF : 12.2/30

Out: 14.493+/-49.643 χ^2/NDF : 9.2/33

All: 35.328+/-34.048 χ^2/NDF : 21.7/64

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022+/-0.056 χ^2/NDF : 1004284.9/16

Left Out: 224.255+/-0.049 χ^2/NDF : 956948.9/14

Right Out: 173.262+/-0.050 χ^2/NDF : 1578202.7/18

Left In: 178.651+/-0.041 χ^2/NDF : 1435769.5/13

Left: 197.182+/-0.032 χ^2/NDF : 2898122.2/28

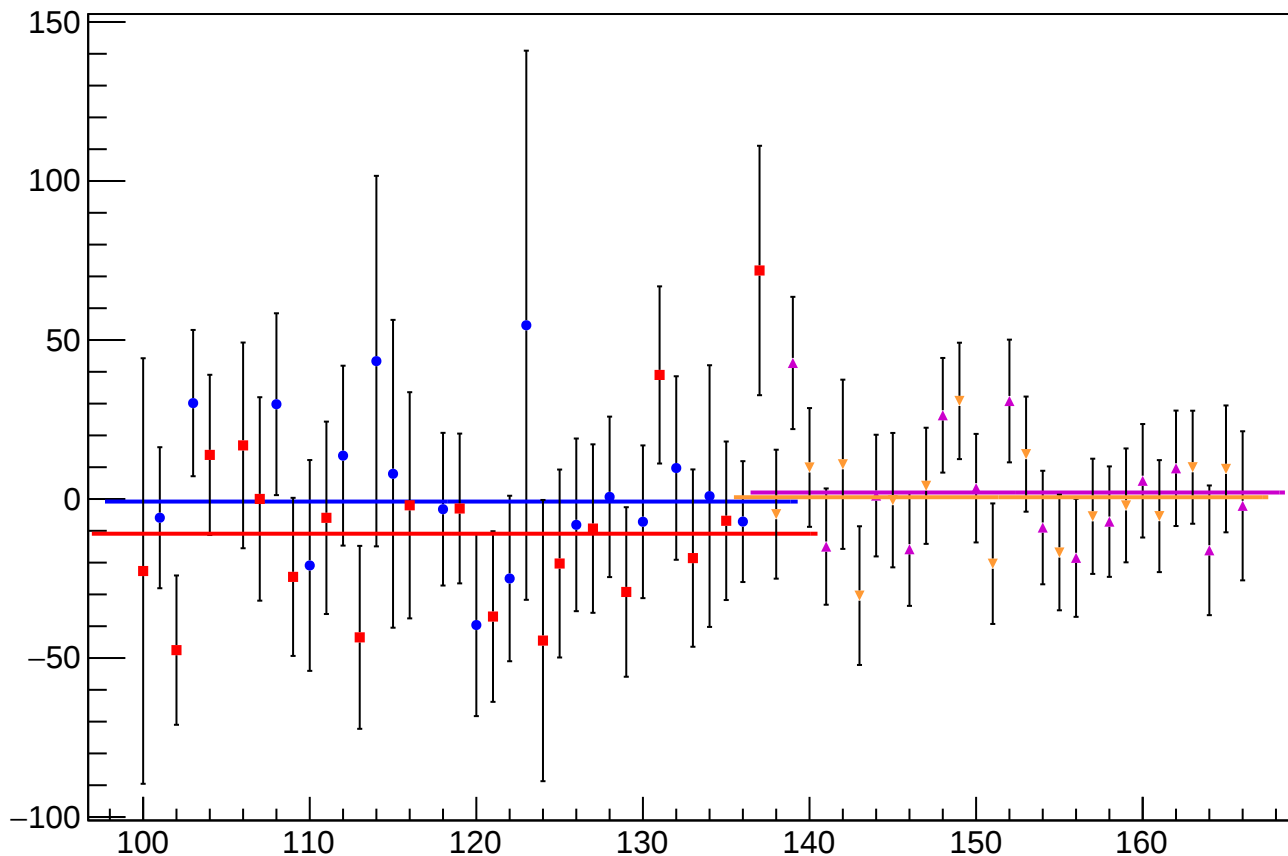
Right: 182.829+/-0.037 χ^2/NDF : 2666222.6/35

In: 184.306+/-0.033 χ^2/NDF : 2495421.0/30

Out: 198.983+/-0.035 χ^2/NDF : 3062681.0/33

All: 191.210+/-0.024 χ^2/NDF : 5650686.3/64

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: 2.046 ± 4.991 χ^2/NDF : 12.7/13

Left: 1.295 ± 3.511 χ^2/NDF : 21.4/28

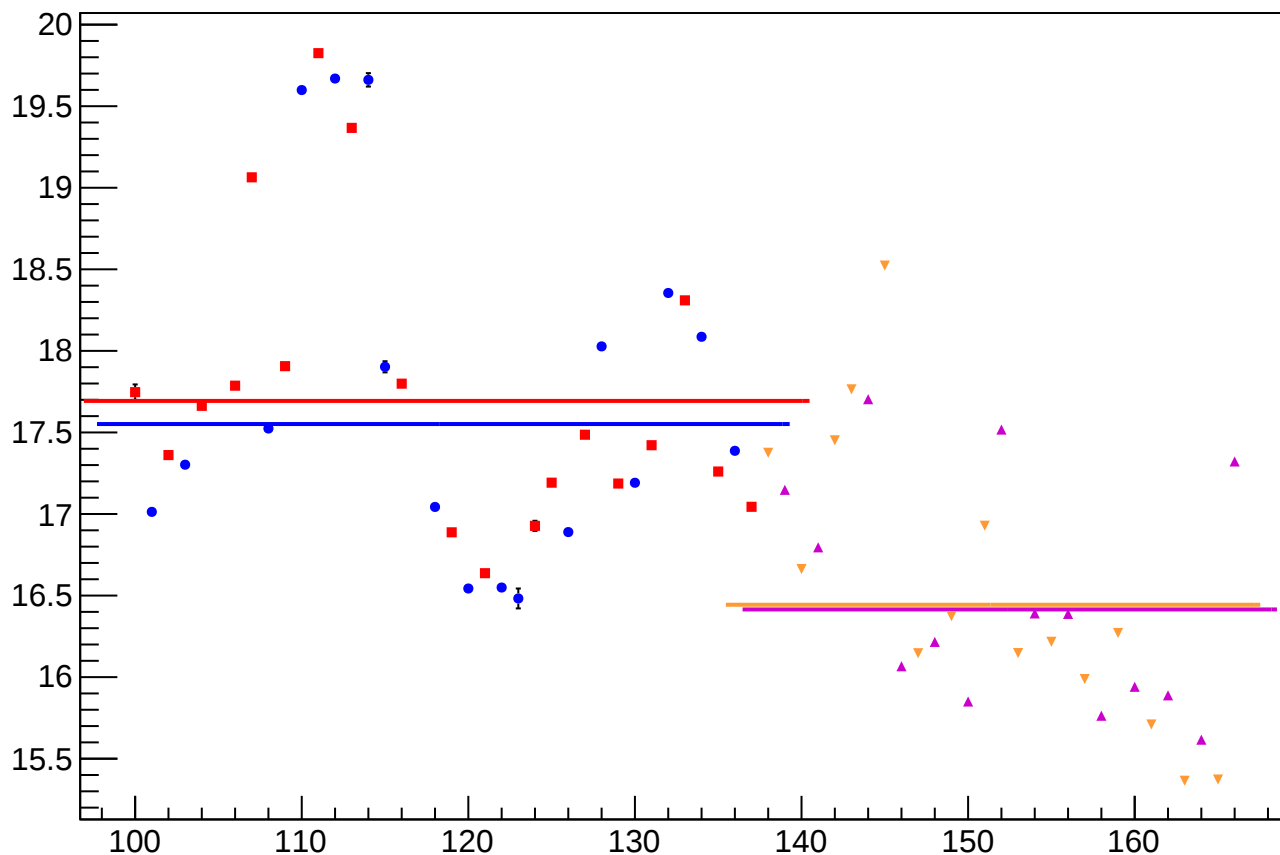
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 1.043 ± 4.017 χ^2/NDF : 20.6/30

Out: -3.538 ± 3.961 χ^2/NDF : 26.5/33

All: -1.280 ± 2.820 χ^2/NDF : 47.8/64

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: 16.415 $\pm$ 0.004 χ^2 /NDF:34139.5/13

Left: 16.430 $\pm$ 0.002 χ^2 /NDF: 89015.6/28

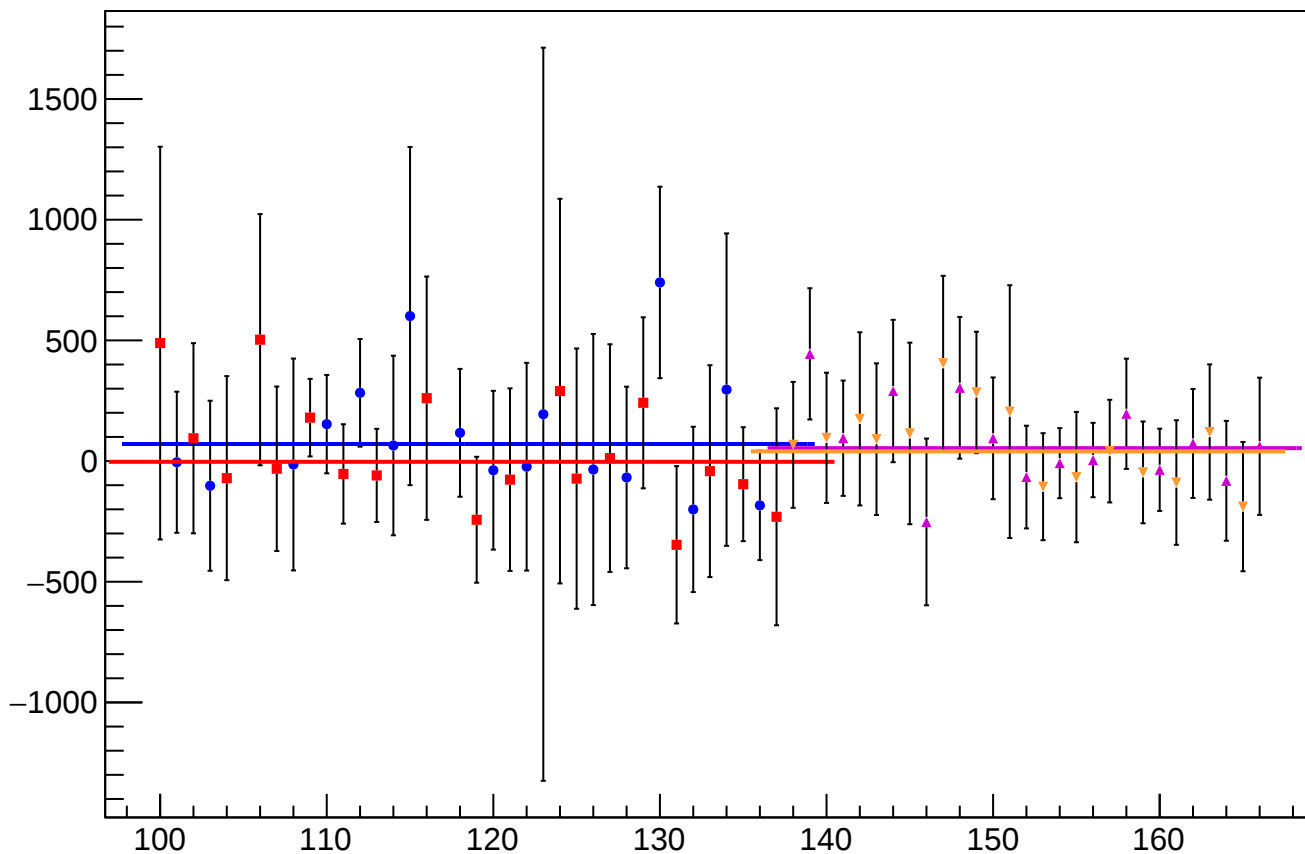
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.815 $\pm$ 0.003 χ^2 /NDF:104689.0/30

Out: 16.890 $\pm$ 0.003 χ^2 /NDF:131298.9/33

All: 16.853 $\pm$ 0.002 χ^2 /NDF: 236342.1/64

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634 $\pm$ 80.409 χ^2 /NDF: 7.2/16

Left Out: 40.202 $\pm$ 70.561 χ^2 /NDF:4.1/14

Right Out: -3.063 $\pm$ 71.508 χ^2 /NDF: 6.2/18

Left In: 53.389 $\pm$ 58.551 χ^2 /NDF:5.8/13

Left: 48.011 $\pm$ 45.059 χ^2 /NDF: 10.0/28

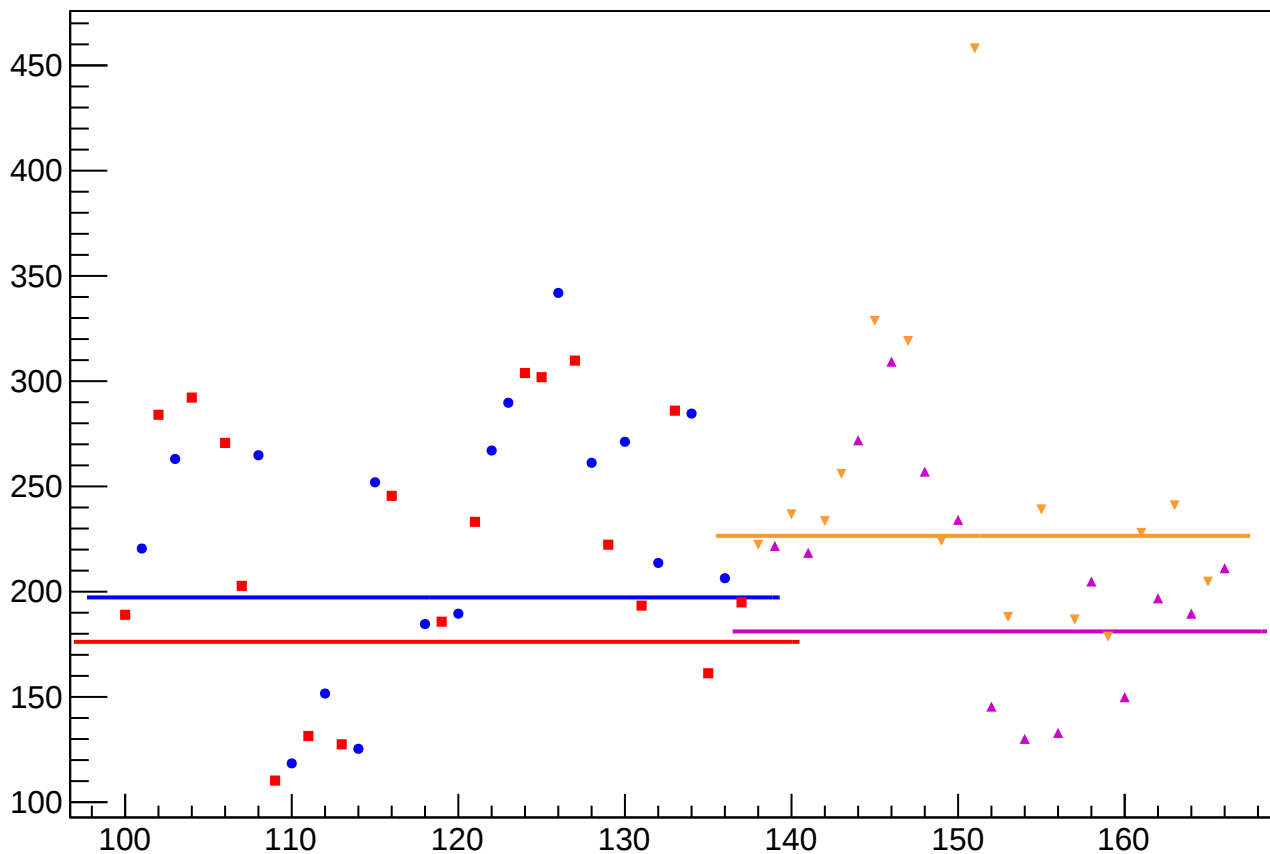
Right: 29.482 $\pm$ 53.435 χ^2 /NDF: 13.8/35

In: 59.364 $\pm$ 47.332 χ^2 /NDF:13.1/30

Out: 18.857 $\pm$ 50.226 χ^2 /NDF:10.5/33

All: 40.311 $\pm$ 34.446 χ^2 /NDF: 23.9/64

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: 181.113+/-0.041 χ^2/NDF : 1402166.1/13

Left: 199.622+/-0.032 χ^2/NDF : 2839675.2/28

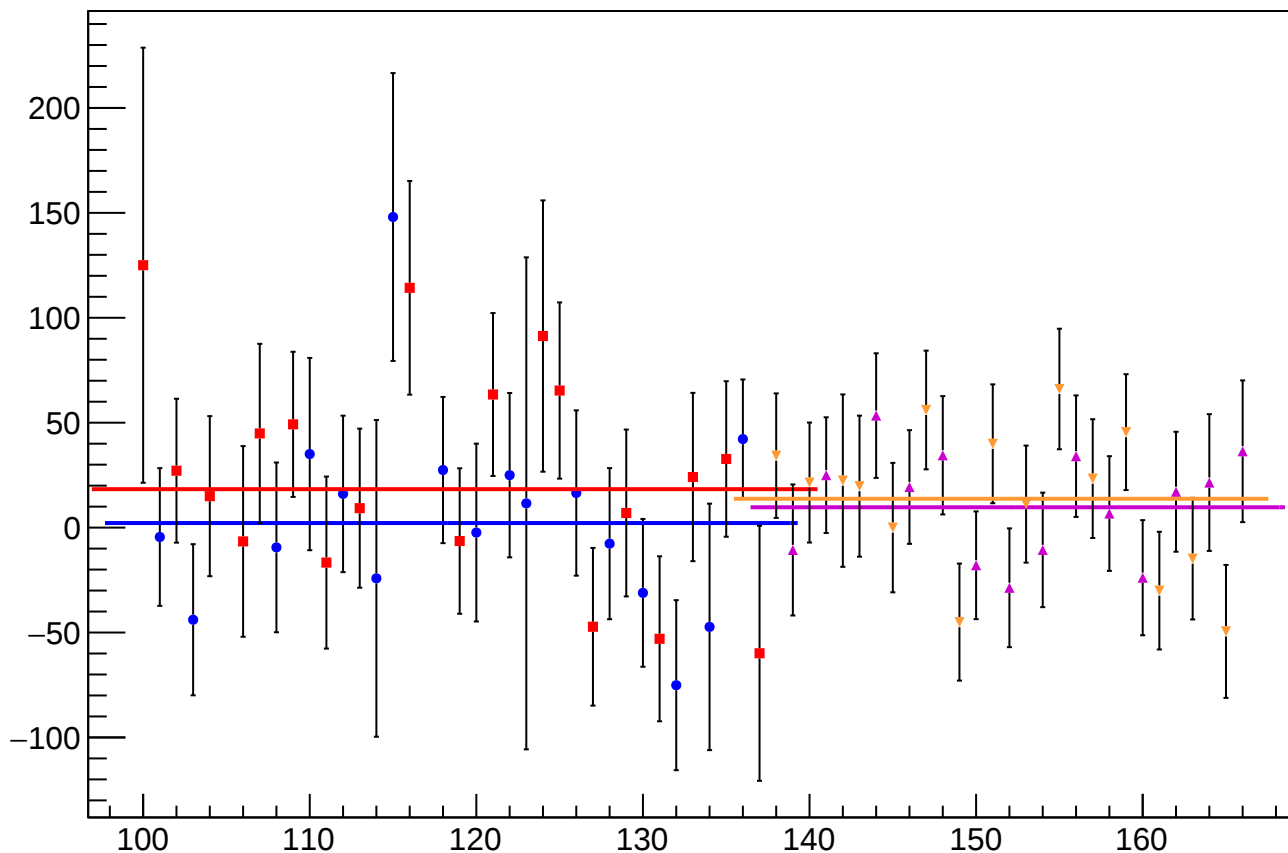
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 186.712+/-0.033 χ^2/NDF : 2424493.6/30

Out: 201.677+/-0.036 χ^2/NDF : 2968940.0/33

All: 193.751+/-0.024 χ^2/NDF : 5487468.3/64

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: 9.696 ± 7.645 $\chi^2/\text{NDF}: 10.4/13$

Left: 11.722 ± 5.400 $\chi^2/\text{NDF}: 31.0/28$

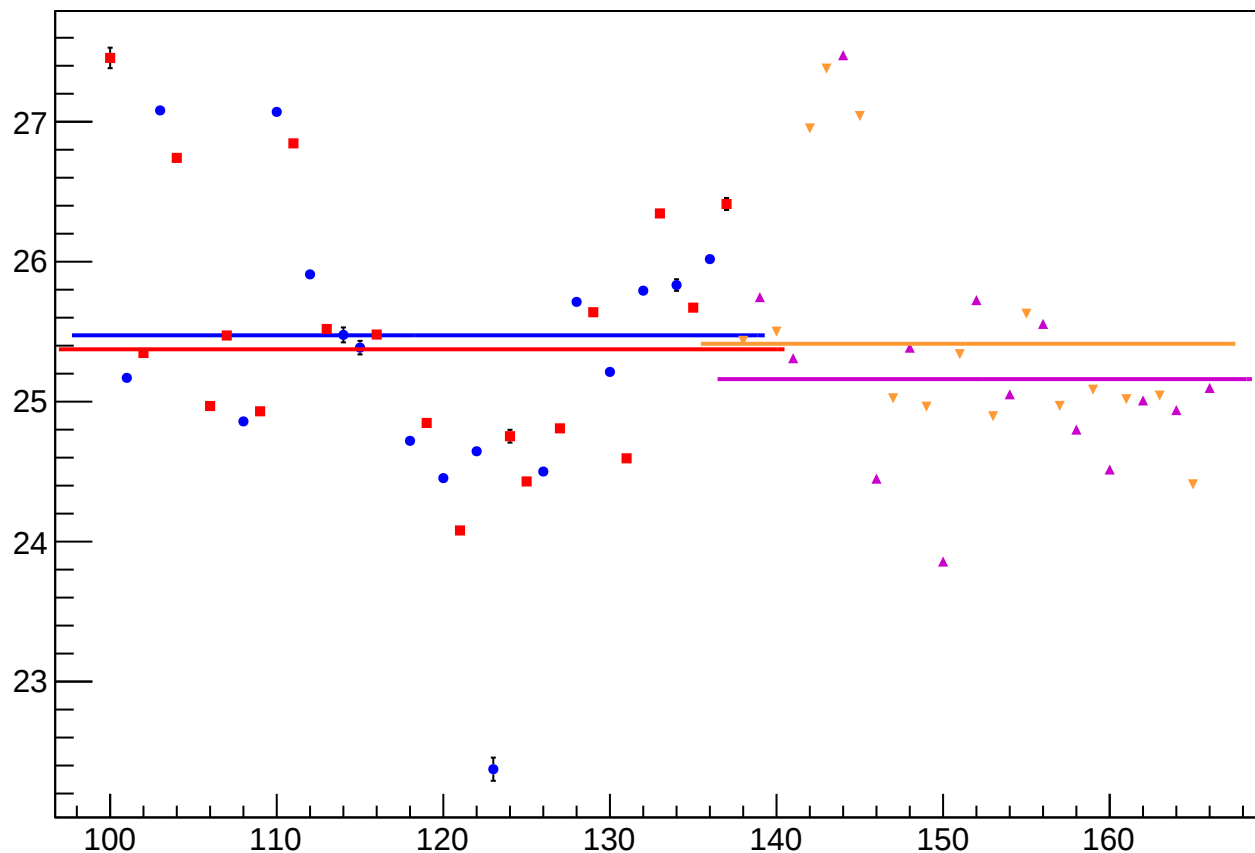
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: 6.860 ± 6.034 $\chi^2/\text{NDF}: 26.1/30$

Out: 15.536 ± 5.947 $\chi^2/\text{NDF}: 40.2/33$

All: 11.261 ± 4.236 $\chi^2/\text{NDF}: 67.4/64$

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: 25.161 $\pm$ 0.005 χ^2 /NDF:22382.7/13

Left: 25.287 $\pm$ 0.004 χ^2 /NDF: 43937.4/28

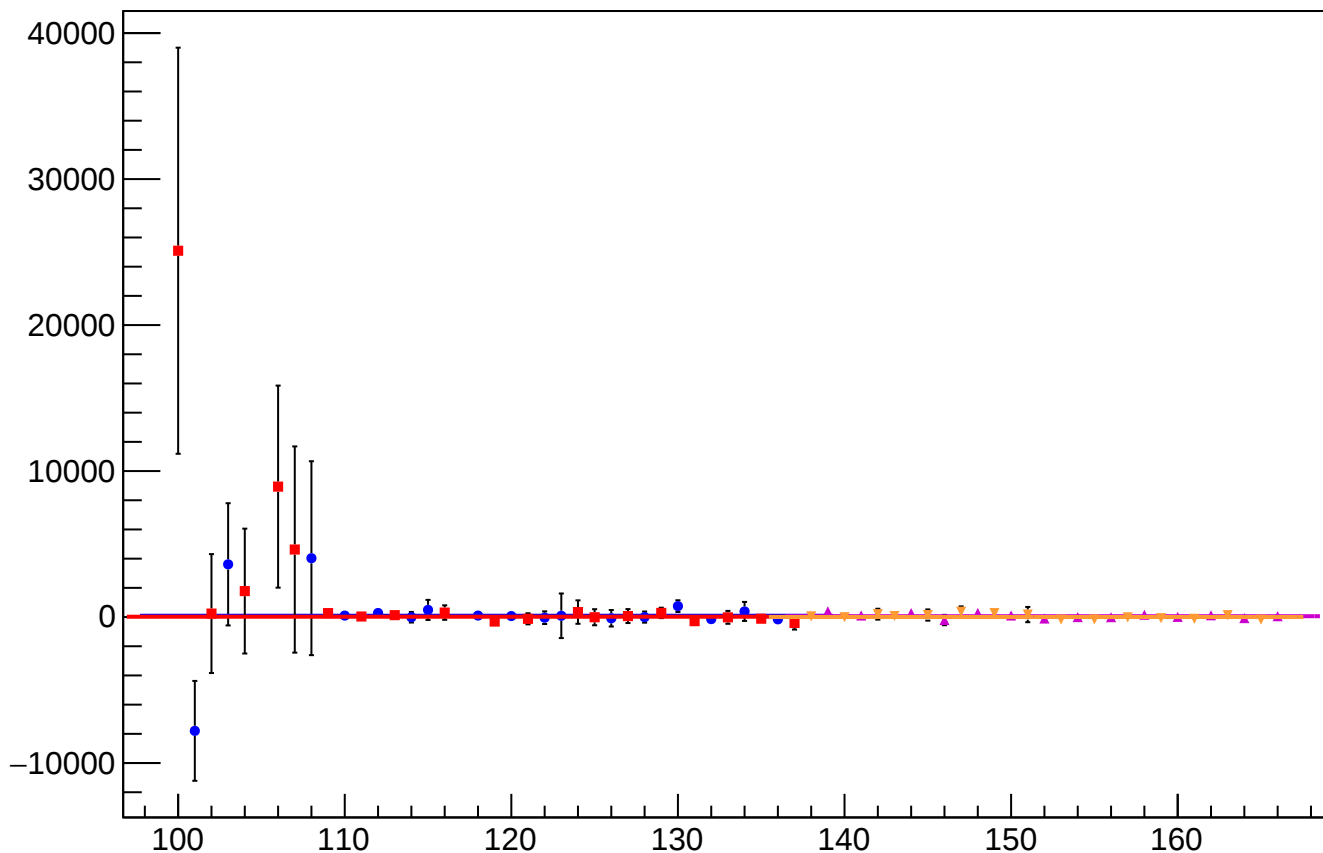
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.279 $\pm$ 0.004 χ^2 /NDF:37708.2/30

Out: 25.398 $\pm$ 0.004 χ^2 /NDF:34063.3/33

All: 25.339 $\pm$ 0.003 χ^2 /NDF: 72166.2/64

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.619 $\pm$ 87.630 χ^2 /NDF: 12.3/16

Left Out: 3.234 $\pm$ 71.288 χ^2 /NDF:4.6/14

Right Out: 22.614 $\pm$ 80.902 χ^2 /NDF: 11.9/18

Left In: 58.427 $\pm$ 59.263 χ^2 /NDF:4.8/13

Left: 35.872 $\pm$ 45.572 χ^2 /NDF: 9.8/28

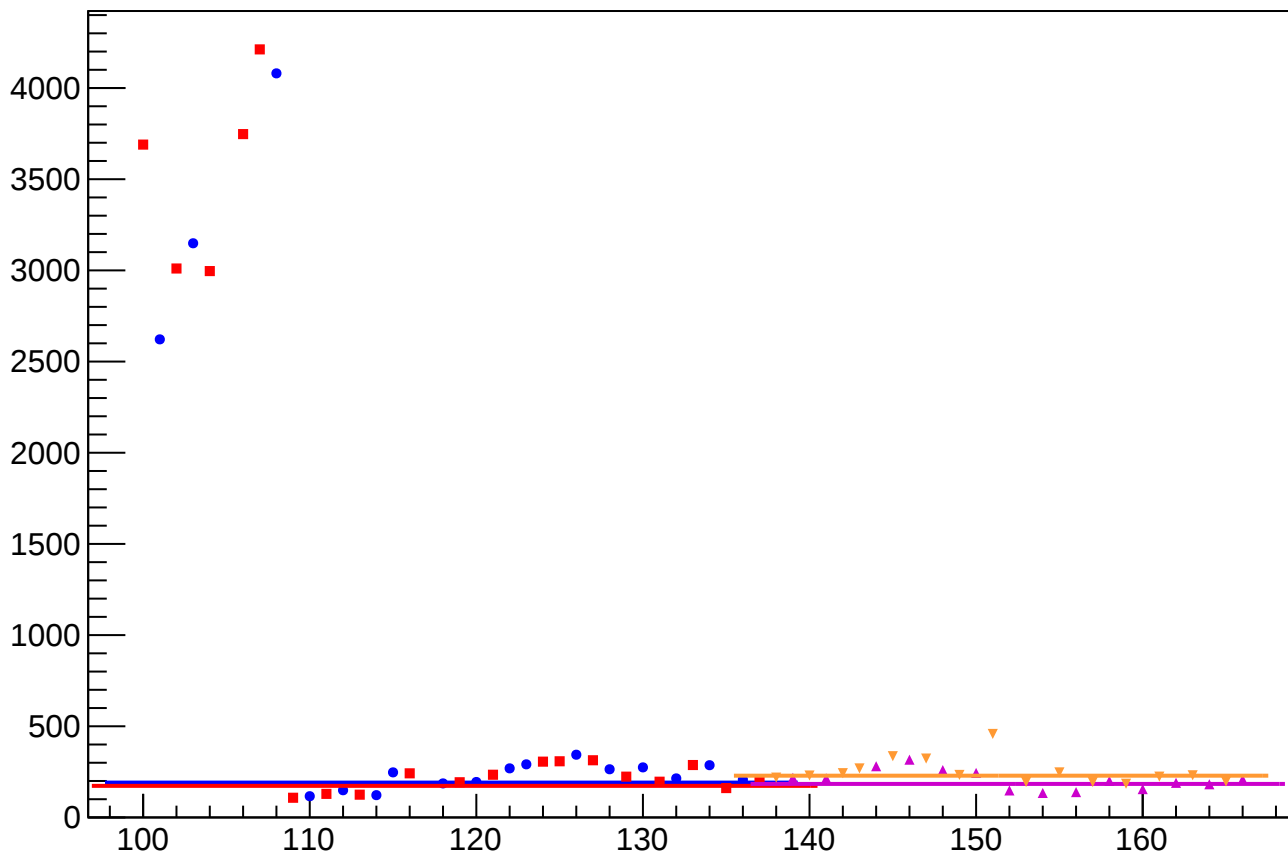
Right: 53.445 $\pm$ 59.443 χ^2 /NDF: 24.5/35

In: 68.216 $\pm$ 49.091 χ^2 /NDF:17.2/30

Out: 11.705 $\pm$ 53.486 χ^2 /NDF:16.5/33

All: 42.377 $\pm$ 36.167 χ^2 /NDF: 34.3/64

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: 183.888+/-0.042 χ^2/NDF : 1296104.2/13

Left: 202.360+/-0.032 χ^2/NDF : 2698764.3/28

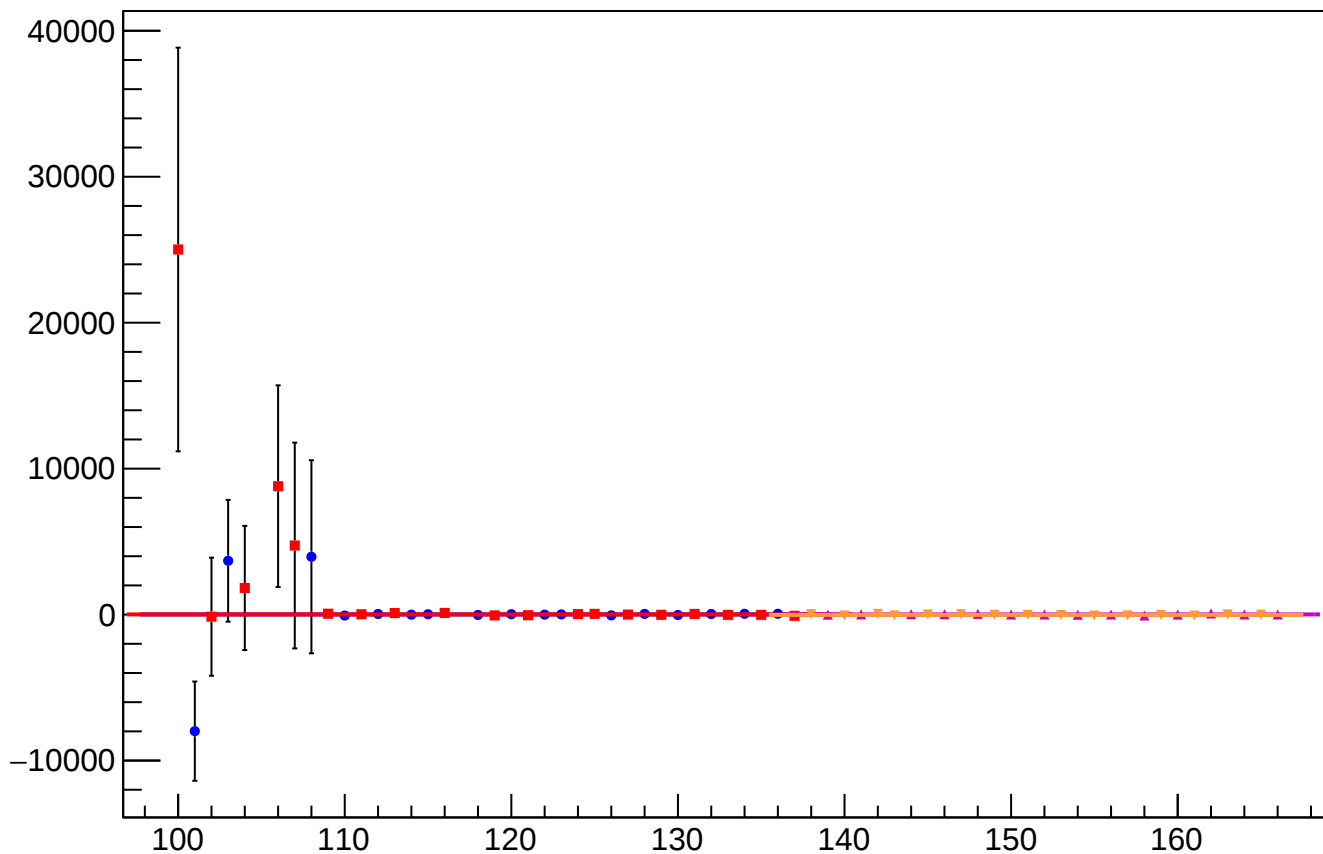
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 186.180+/-0.035 χ^2/NDF : 4877379.2/30

Out: 204.691+/-0.038 χ^2/NDF : 5670355.4/33

All: 194.644+/-0.026 χ^2/NDF : 10677759.2/64

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: 13.089+/-8.838 χ^2/NDF :13.8/13

Left: -3.614+/-6.237 χ^2/NDF : 36.5/28

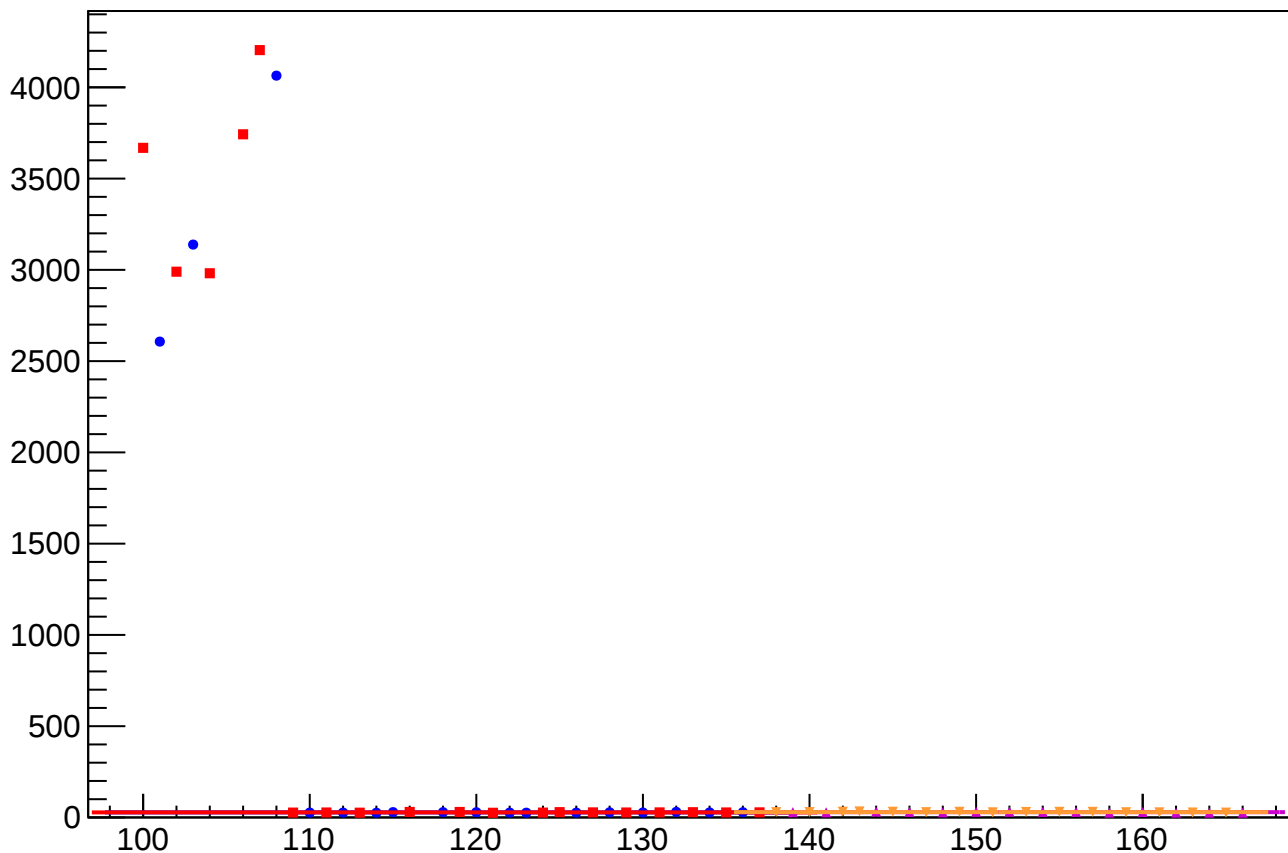
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 12.162+/-7.155 χ^2/NDF :32.1/30

Out: -8.876+/-7.145 χ^2/NDF :44.8/33

All: 1.628+/-5.056 χ^2/NDF : 81.3/64

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: 29.002+/-0.006 χ^2/NDF : 106025.4/13

Left: 29.139+/-0.004 χ^2/NDF : 179249.1/28

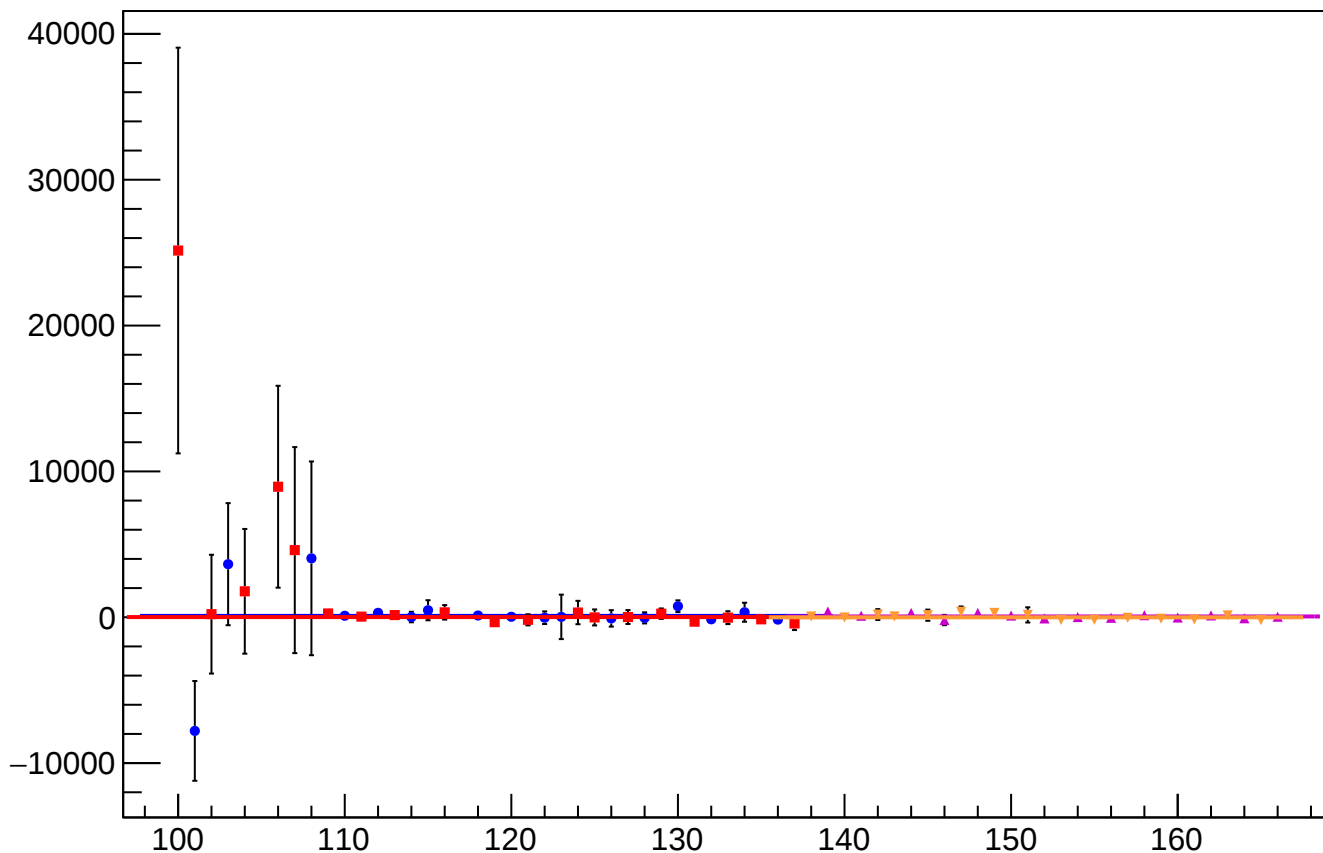
Right: 27.765+/-0.006 χ^2/NDF : 6503824.5/35

In: 28.601+/-0.005 χ^2/NDF : 3144904.9/30

Out: 28.735+/-0.005 χ^2/NDF : 3571094.1/33

All: 28.668+/-0.004 χ^2/NDF : 6716353.2/64

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840+/-87.359 χ^2/NDF : 12.6/16

Left Out: -5.189+/-71.134 χ^2/NDF : 5.3/14

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 55.594+/-59.145 χ^2/NDF : 5.0/13

Left: 30.749+/-45.478 χ^2/NDF : 10.7/28

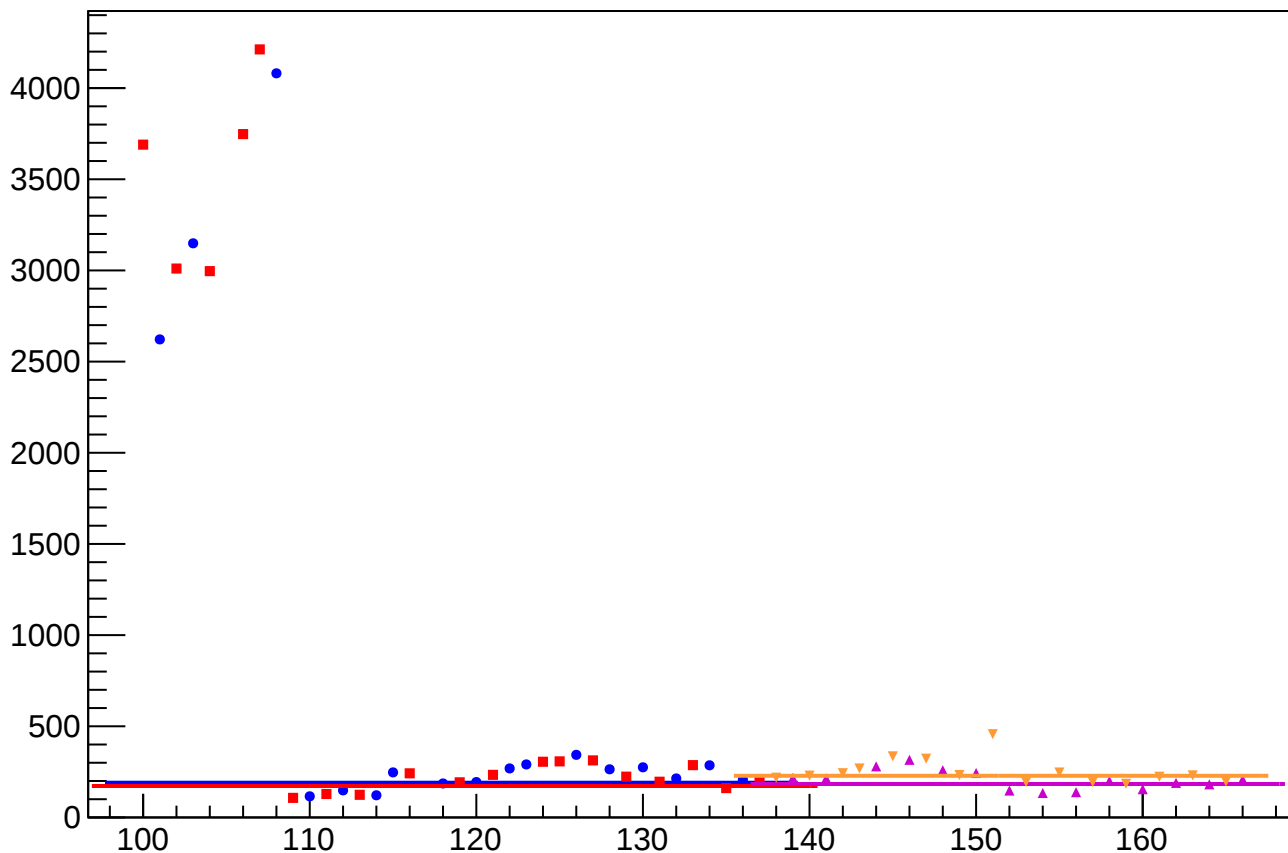
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 67.301+/-48.976 χ^2/NDF : 17.7/30

Out: 2.671+/-53.345 χ^2/NDF : 18.0/33

All: 37.741+/-36.077 χ^2/NDF : 36.5/64

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: 183.527+/-0.042 χ^2/NDF : 1295974.8/13

Left: 201.949+/-0.032 χ^2/NDF : 2697639.6/28

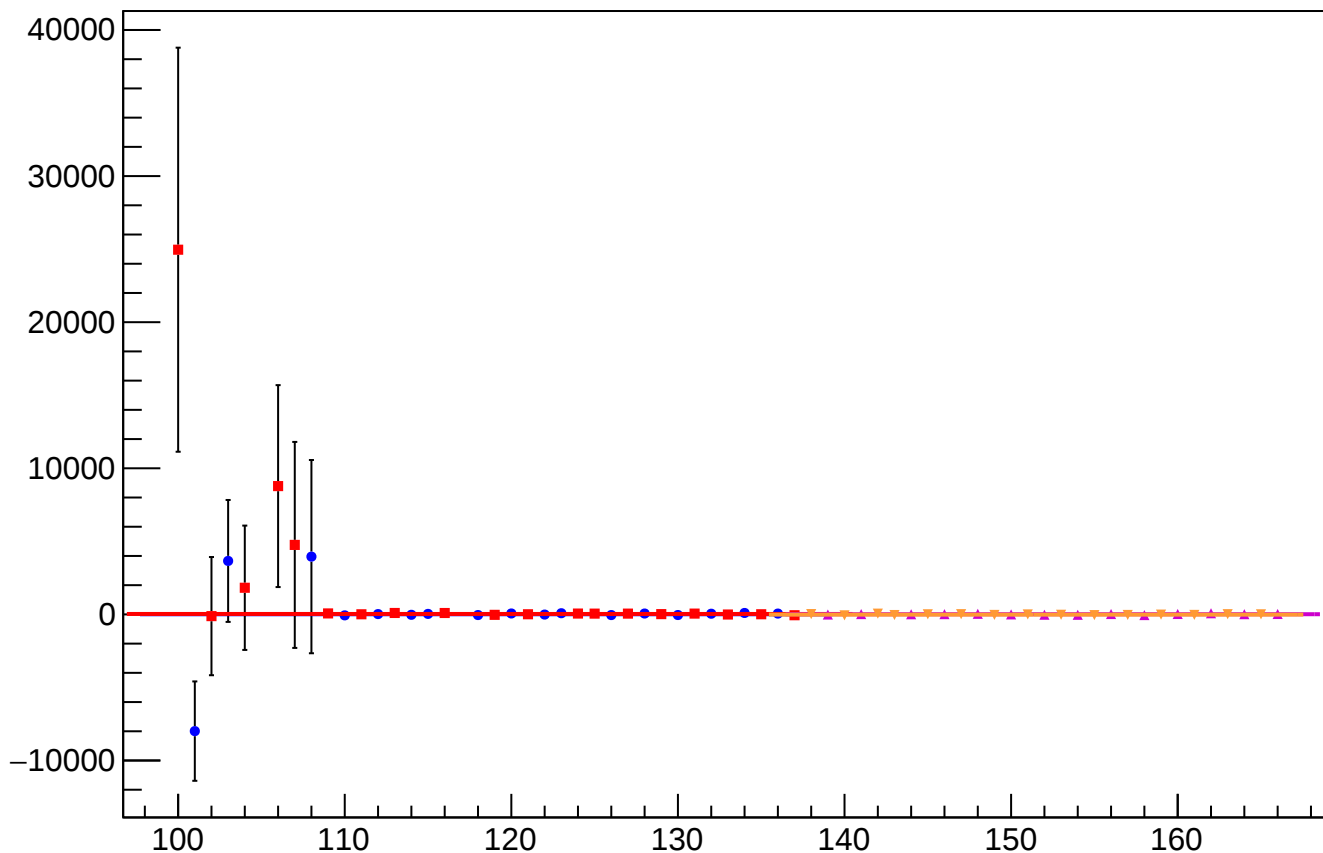
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 185.714+/-0.035 χ^2/NDF : 4888249.9/30

Out: 204.092+/-0.038 χ^2/NDF : 5687678.2/33

All: 194.120+/-0.026 χ^2/NDF : 10704739.1/64

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: 12.380 $\pm$ 8.896 χ^2 /NDF:12.9/13

Left: -1.171 $\pm$ 6.285 χ^2 /NDF: 27.8/28

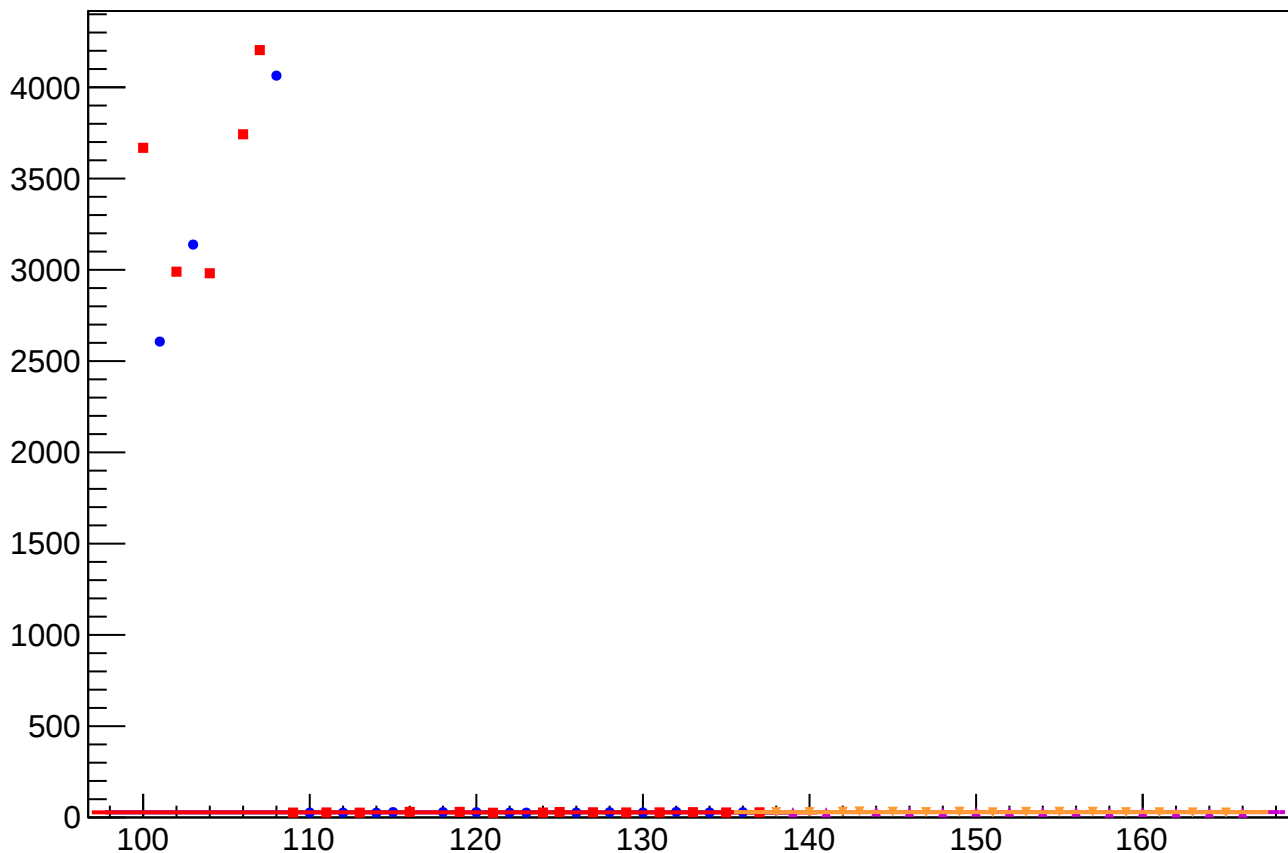
Right: 19.569 $\pm$ 8.698 χ^2 /NDF: 41.1/35

In: 11.423 $\pm$ 7.203 χ^2 /NDF:36.1/30

Out: 0.460 $\pm$ 7.205 χ^2 /NDF:35.3/33

All: 5.943 $\pm$ 5.094 χ^2 /NDF: 72.6/64

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: 29.198+/-0.006 χ^2/NDF : 105815.3/13

Left: 29.361+/-0.004 χ^2/NDF : 179548.4/28

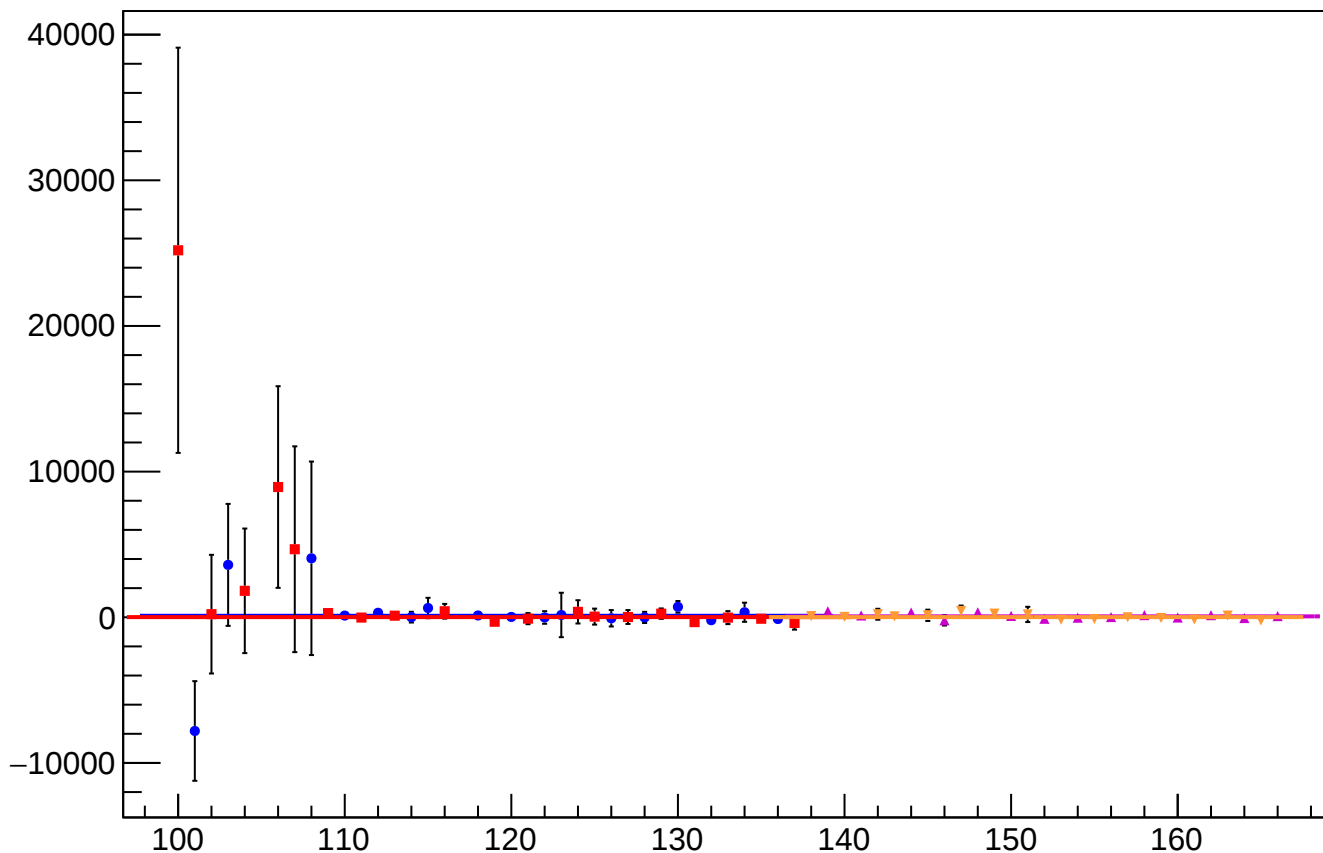
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.793+/-0.005 χ^2/NDF : 3144828.6/30

Out: 28.975+/-0.005 χ^2/NDF : 3574355.2/33

All: 28.884+/-0.004 χ^2/NDF : 6719819.7/64

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: 63.171 $\pm$ 59.977 χ^2 /NDF: 5.7/13

Left: 41.735 $\pm$ 46.070 χ^2 /NDF: 11.0/28

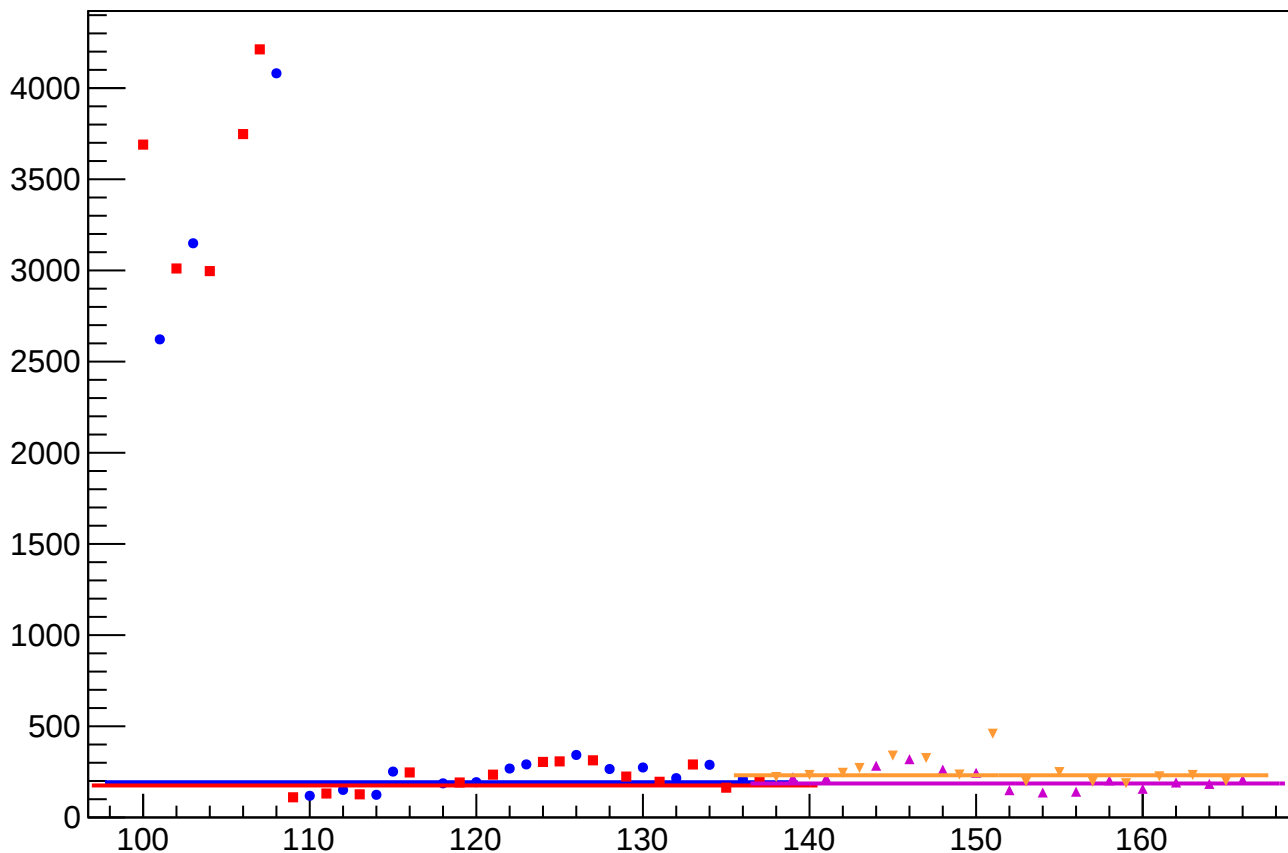
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 75.341 $\pm$ 49.630 χ^2 /NDF: 18.2/30

Out: 11.035 $\pm$ 54.005 χ^2 /NDF: 17.3/33

All: 45.898 $\pm$ 36.543 χ^2 /NDF: 36.3/64

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: 186.314+/-0.042 χ^2/NDF : 1267419.4/13

Left: 204.771+/-0.033 χ^2/NDF : 2647825.6/28

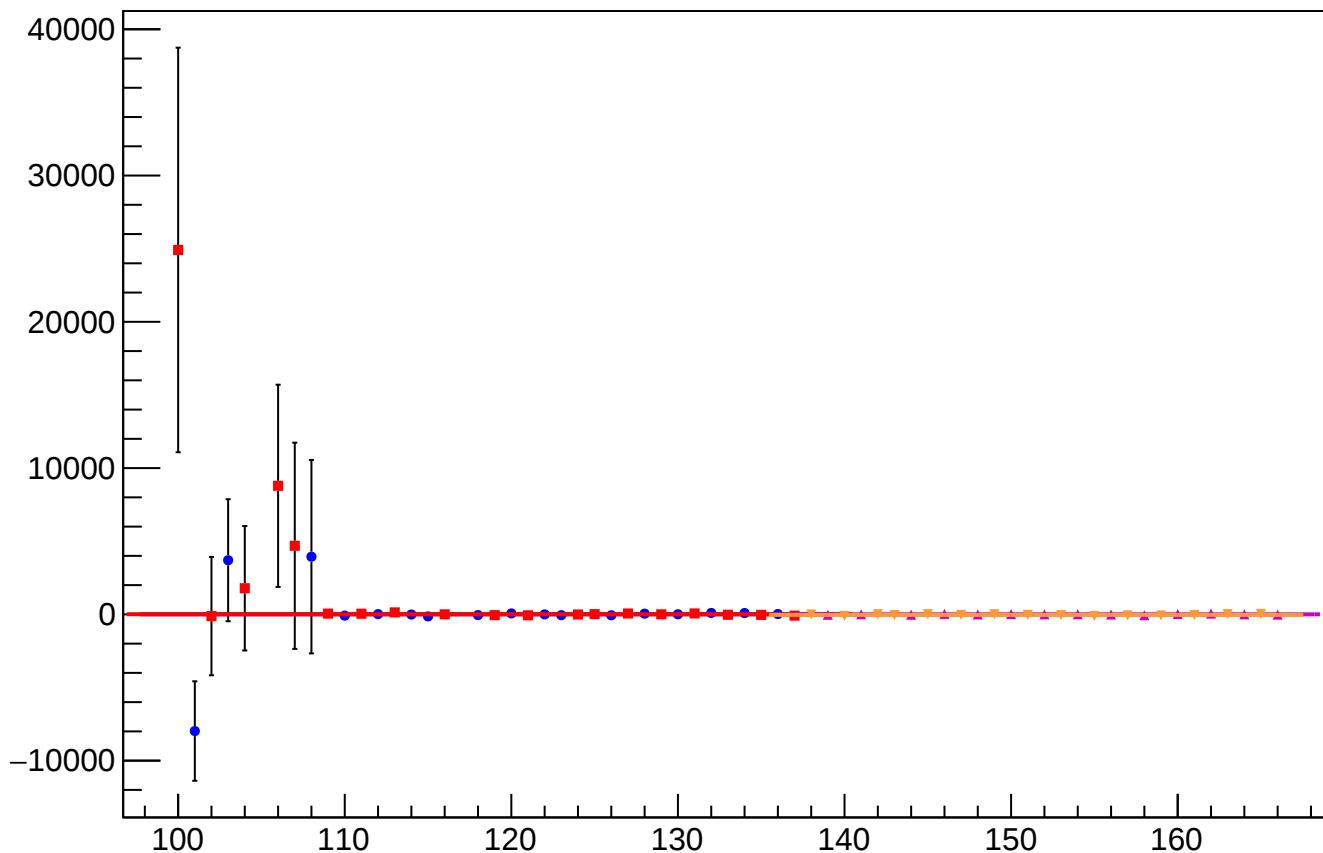
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 188.482+/-0.035 χ^2/NDF : 4811829.7/30

Out: 206.948+/-0.038 χ^2/NDF : 5609957.2/33

All: 196.937+/-0.026 χ^2/NDF : 10548558.6/64

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651+/-14.935 χ^2/NDF : 20.4/16

Left Out: -35.698+/-10.482 χ^2/NDF : 17.1/14

Right Out: 12.487+/-14.947 χ^2/NDF : 21.7/18

Left In: 2.320+/-10.551 χ^2/NDF : 7.3/13

Left: -16.814+/-7.436 χ^2/NDF : 30.9/28

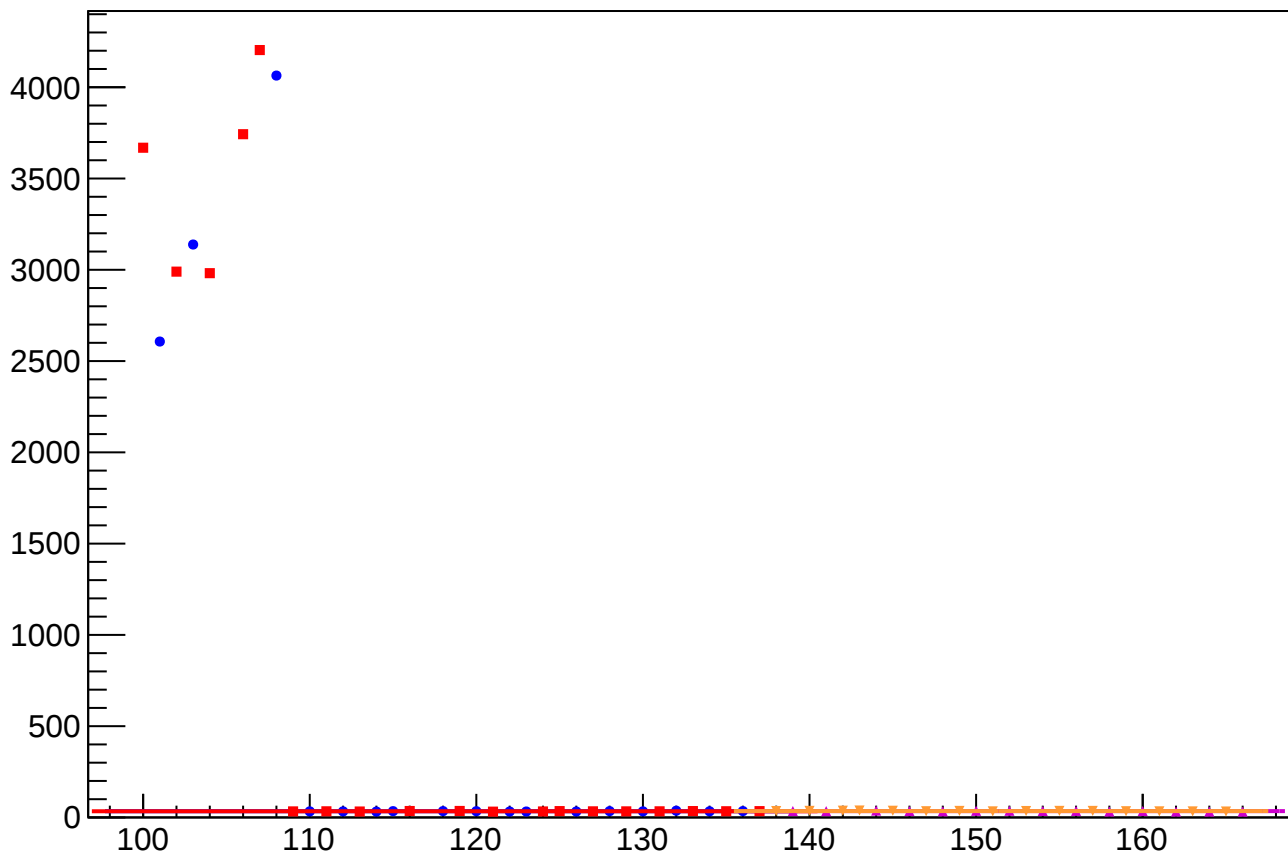
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: 3.096+/-8.618 χ^2/NDF : 27.7/30

Out: -19.813+/-8.582 χ^2/NDF : 45.7/33

All: -8.406+/-6.081 χ^2/NDF : 77.0/64

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: 34.697 $\pm$ 0.007 χ^2 /NDF:51407.4/13

Left: 34.802 $\pm$ 0.005 χ^2 /NDF: 91020.1/28

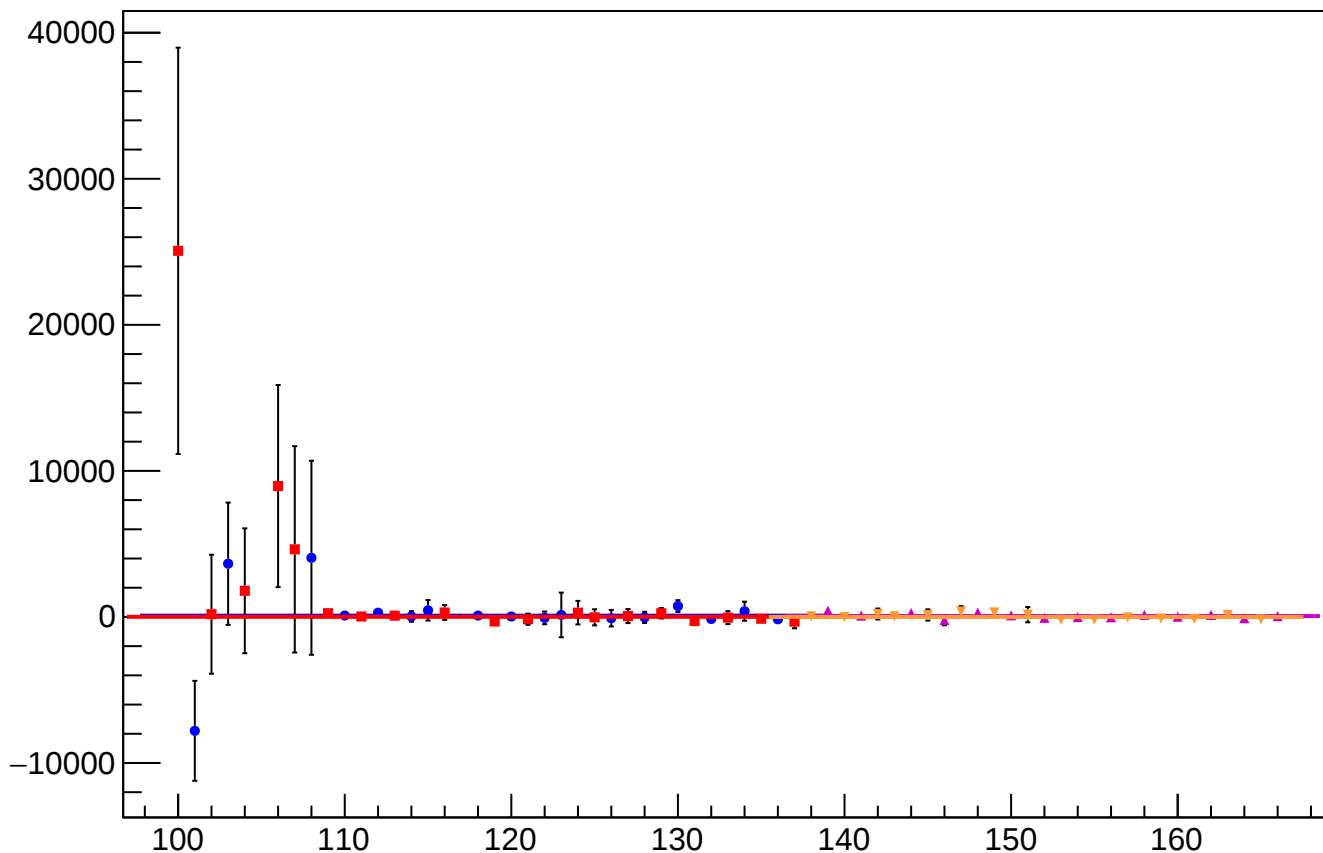
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.510 $\pm$ 0.006 χ^2 /NDF:3059526.8/30

Out: 34.578 $\pm$ 0.006 χ^2 /NDF:3497022.6/33

All: 34.544 $\pm$ 0.004 χ^2 /NDF: 6556611.2/64

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: 60.152+/-59.820 χ^2/NDF : 5.2/13

Left: 35.438+/-45.954 χ^2/NDF : 10.7/28

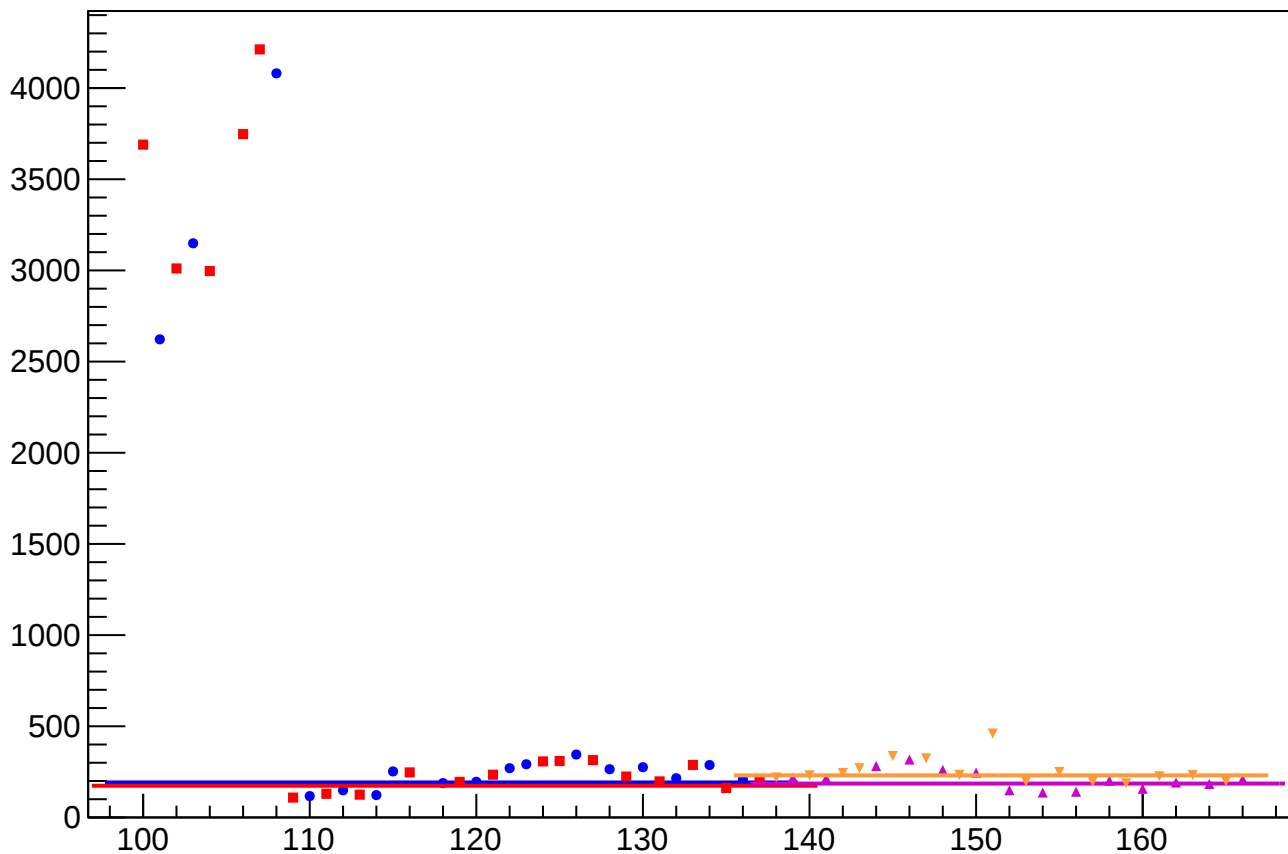
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 68.341+/-49.463 χ^2/NDF : 17.7/30

Out: 3.117+/-53.783 χ^2/NDF : 16.2/33

All: 38.453+/-36.407 χ^2/NDF : 34.6/64

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: 185.839+/-0.042 χ^2/NDF : 1254797.2/13

Left: 204.269+/-0.032 χ^2/NDF : 2628013.3/28

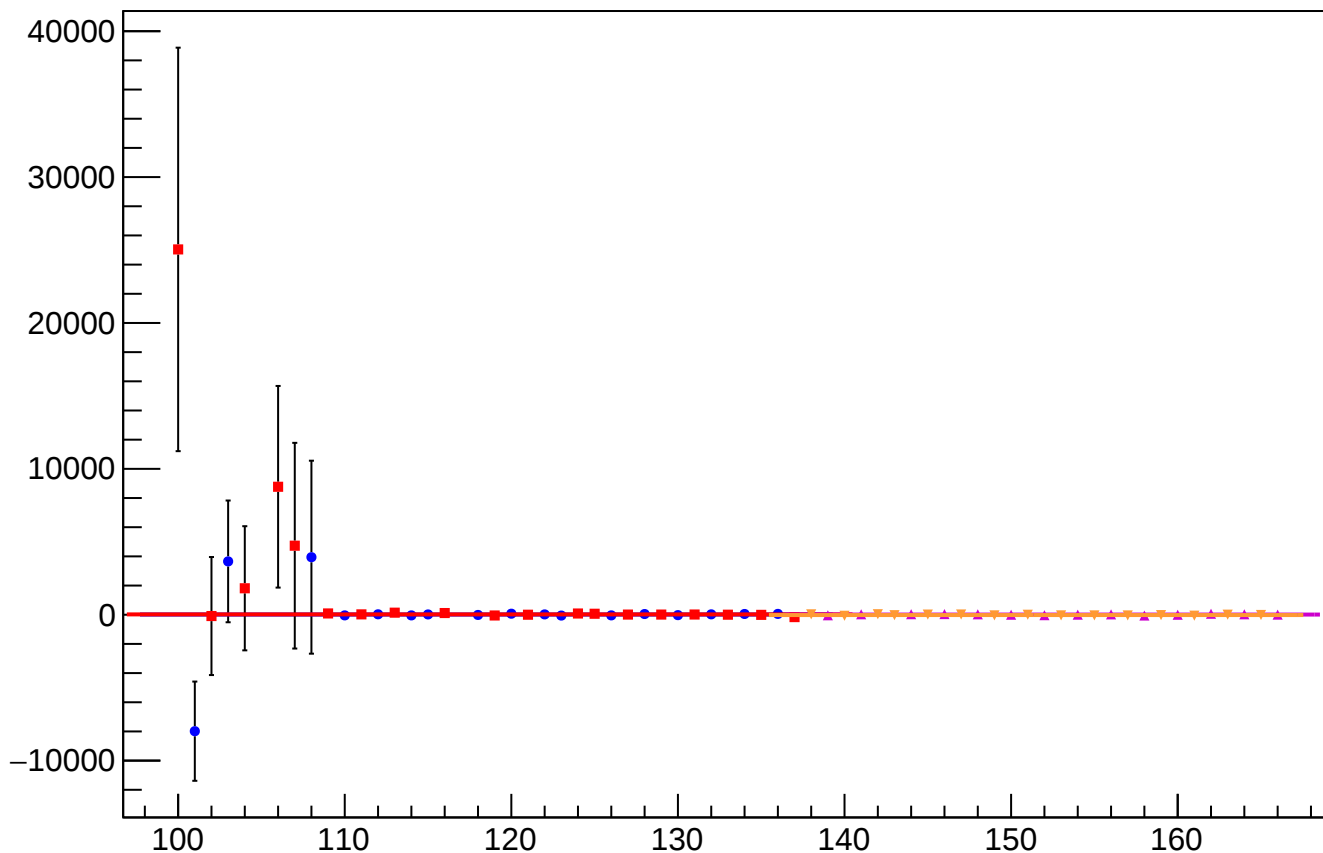
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 187.750+/-0.035 χ^2/NDF : 4834309.2/30

Out: 205.859+/-0.038 χ^2/NDF : 5672203.0/33

All: 196.048+/-0.026 χ^2/NDF : 10629349.9/64

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: 11.527+/-9.568 χ^2/NDF : 12.7/13

Left: -5.517+/-6.739 χ^2/NDF : 30.0/28

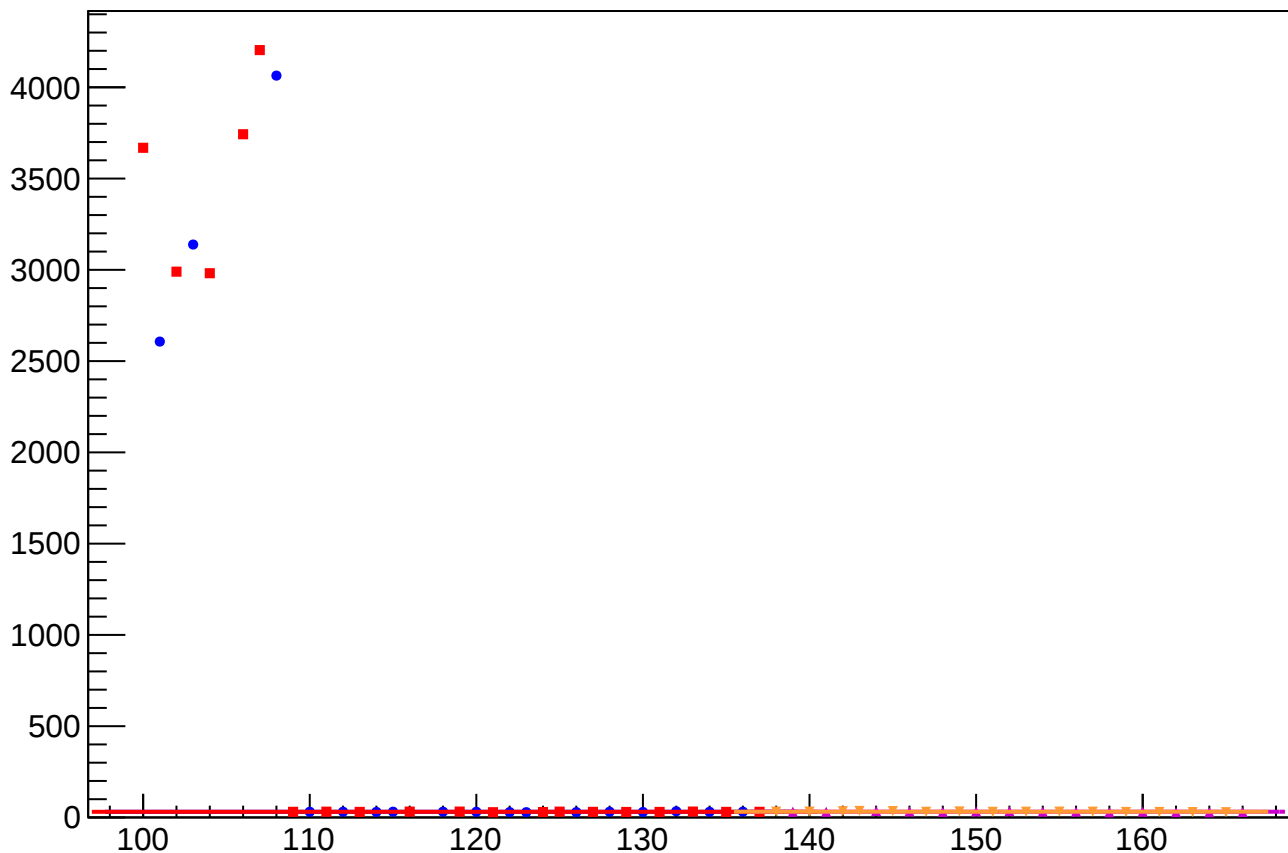
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 12.384+/-7.829 χ^2/NDF : 27.9/30

Out: -7.416+/-7.795 χ^2/NDF : 46.0/33

All: 2.441+/-5.524 χ^2/NDF : 77.2/64

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: 31.415 $\pm$ 0.007 χ^2 /NDF: 79644.6/13

Left: 31.496 $\pm$ 0.005 χ^2 /NDF: 150131.3/28

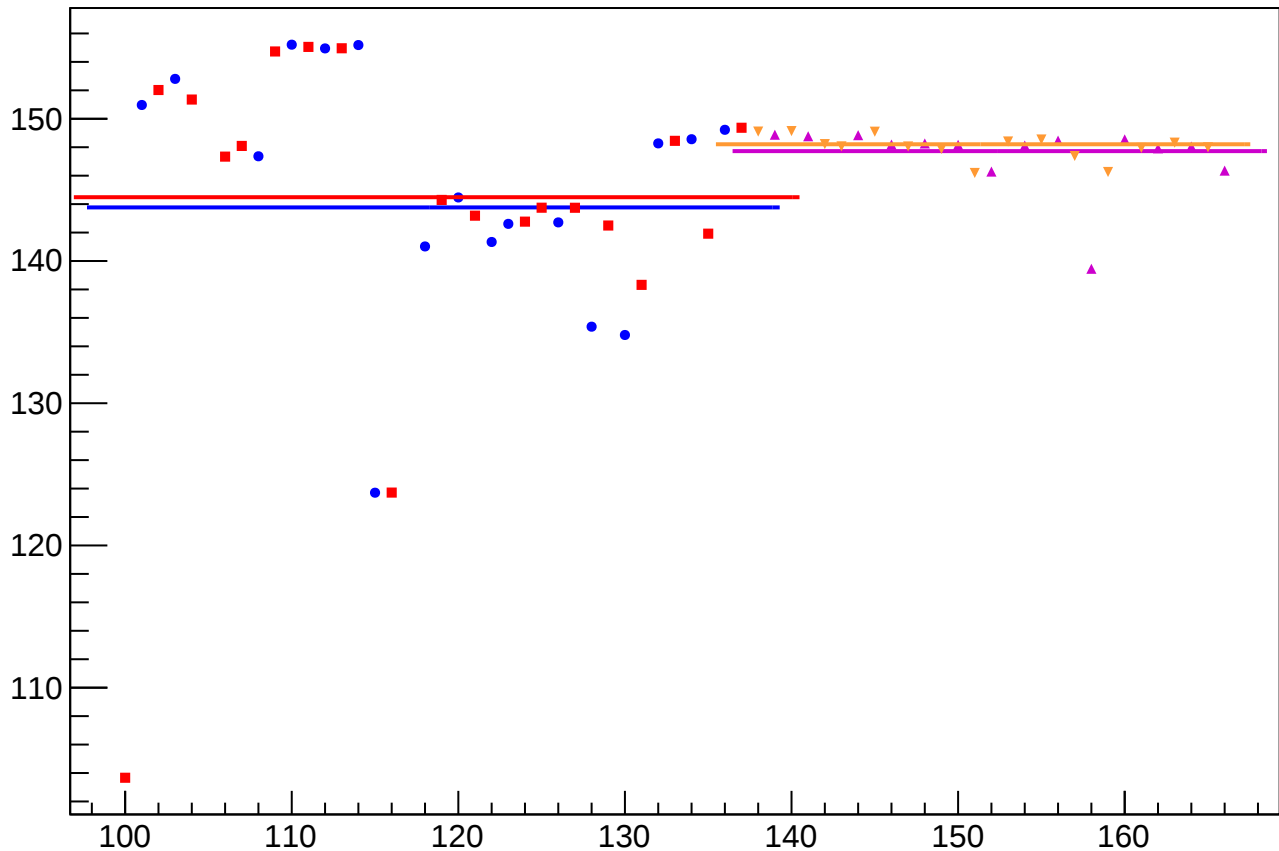
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.320 $\pm$ 0.006 χ^2 /NDF: 3094669.6/30

Out: 31.376 $\pm$ 0.006 χ^2 /NDF: 3531858.7/33

All: 31.348 $\pm$ 0.004 χ^2 /NDF: 6626580.5/64

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768+/-0.000 χ^2/NDF : 3532173868.5/16

Left Out: 148.208+/-0.000 χ^2/NDF : 50728601.2/14

Right Out: 144.486+/-0.000 χ^2/NDF : 4183608291.3/18

Left In: 147.726+/-0.000 χ^2/NDF : 324015859.4/13

Left: 147.974+/-0.000 χ^2/NDF : 382415321.8/28

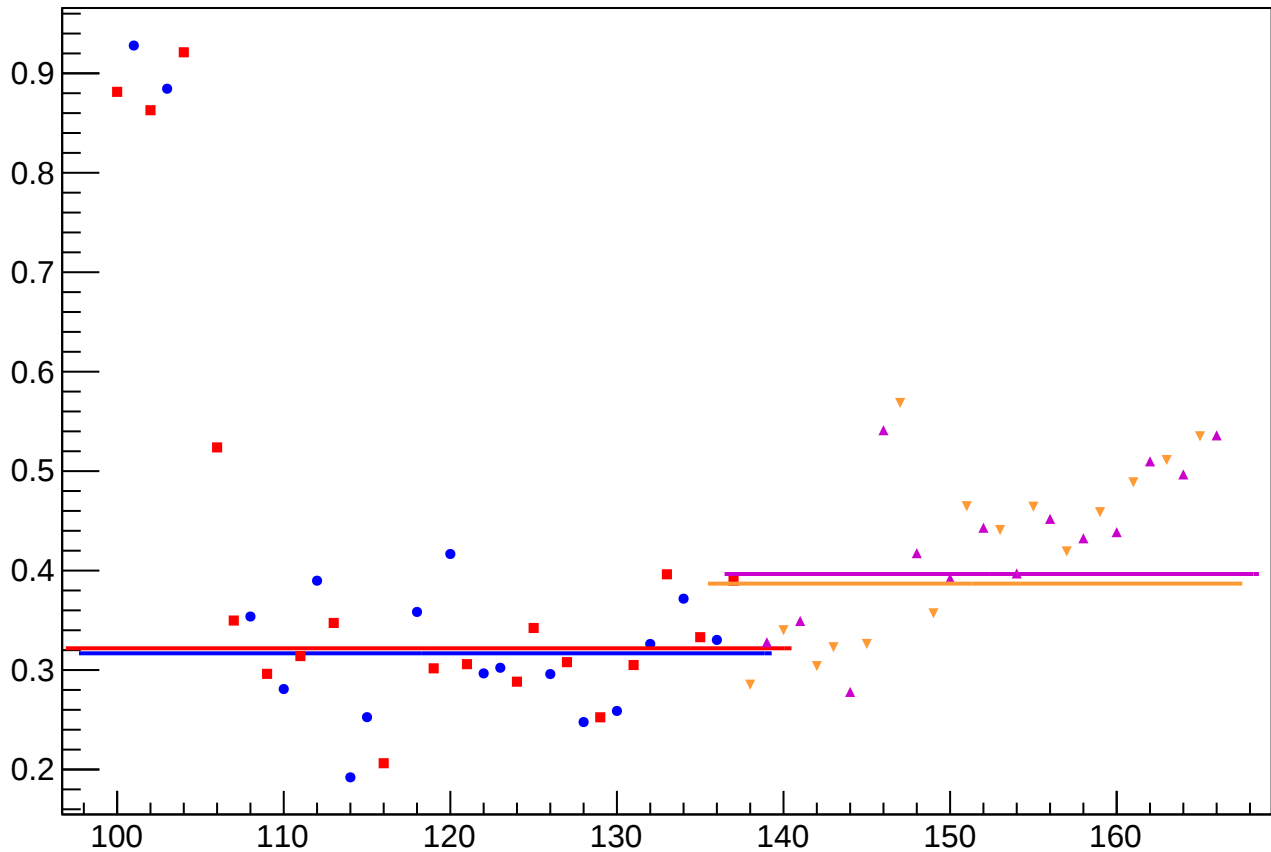
Right: 144.130+/-0.000 χ^2/NDF : 7730221597.0/35

In: 145.886+/-0.000 χ^2/NDF : 4322696382.6/30

Out: 146.519+/-0.000 χ^2/NDF : 4662573647.8/33

All: 146.209+/-0.000 χ^2/NDF : 9009722892.7

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.387 $\pm$ 0.000 χ^2 /NDF: 929868.3/14

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.397 $\pm$ 0.000 χ^2 /NDF: 765715.4/13

Left: 0.392 $\pm$ 0.000 χ^2 /NDF: 1701766.2/28

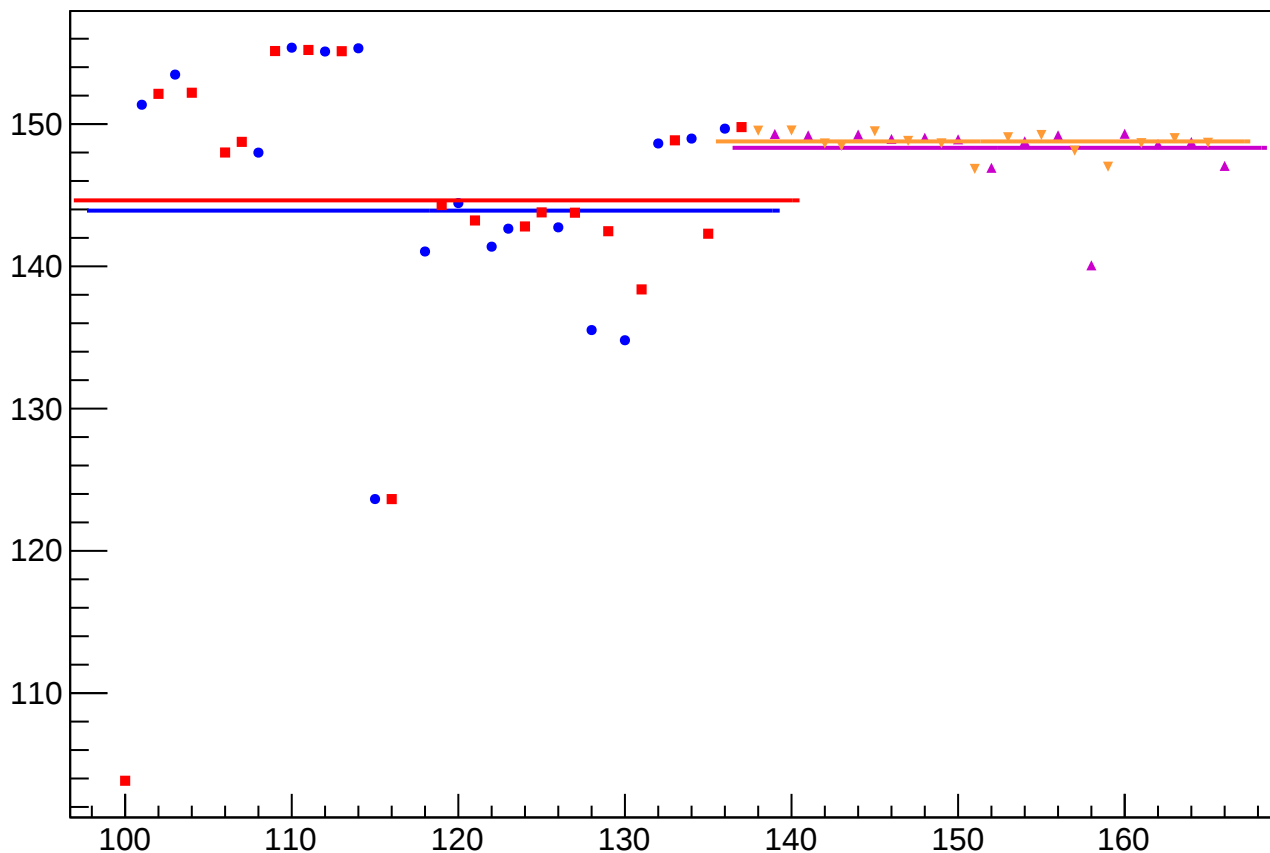
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.359 $\pm$ 0.000 χ^2 /NDF: 2423155.1/30

Out: 0.357 $\pm$ 0.000 χ^2 /NDF: 2408978.3/33

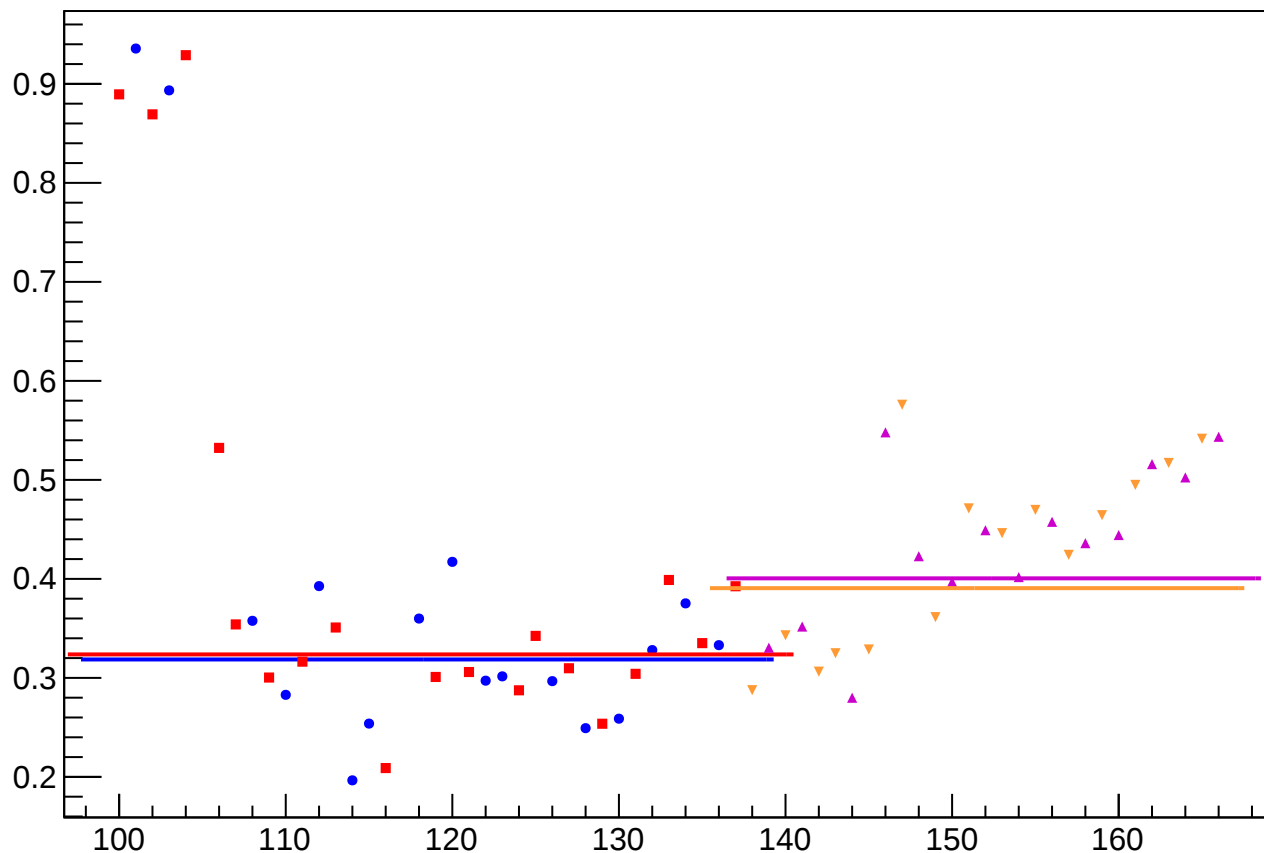
All: 0.358 $\pm$ 0.000 χ^2 /NDF: 4832677.5/64

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917+/-0.000	χ^2/NDF : 3584662767.5/16	Left: 148.563+/-0.000	χ^2/NDF : 359411394.8/28
Left Out: 148.781+/-0.000	χ^2/NDF : 39868312.4/14	Right: 144.280+/-0.000	χ^2/NDF : 7809567994.8/35
Right Out: 144.637+/-0.000	χ^2/NDF : 4210524953.9/18	In: 146.268+/-0.000	χ^2/NDF : 4468911180.6/30
Left In: 148.331+/-0.000	χ^2/NDF : 312983815.8/13	Out: 146.892+/-0.000	χ^2/NDF : 4773068073.8/33
		All: 146.586+/-0.000	χ^2/NDF : 9265332539.4

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.391 $\pm$ 0.000 χ^2/NDF : 947211.0/14

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1220898.3/18

Left In: 0.401 $\pm$ 0.000 χ^2/NDF : 782101.5/13

Left: 0.395 $\pm$ 0.000 χ^2/NDF : 1735656.0/28

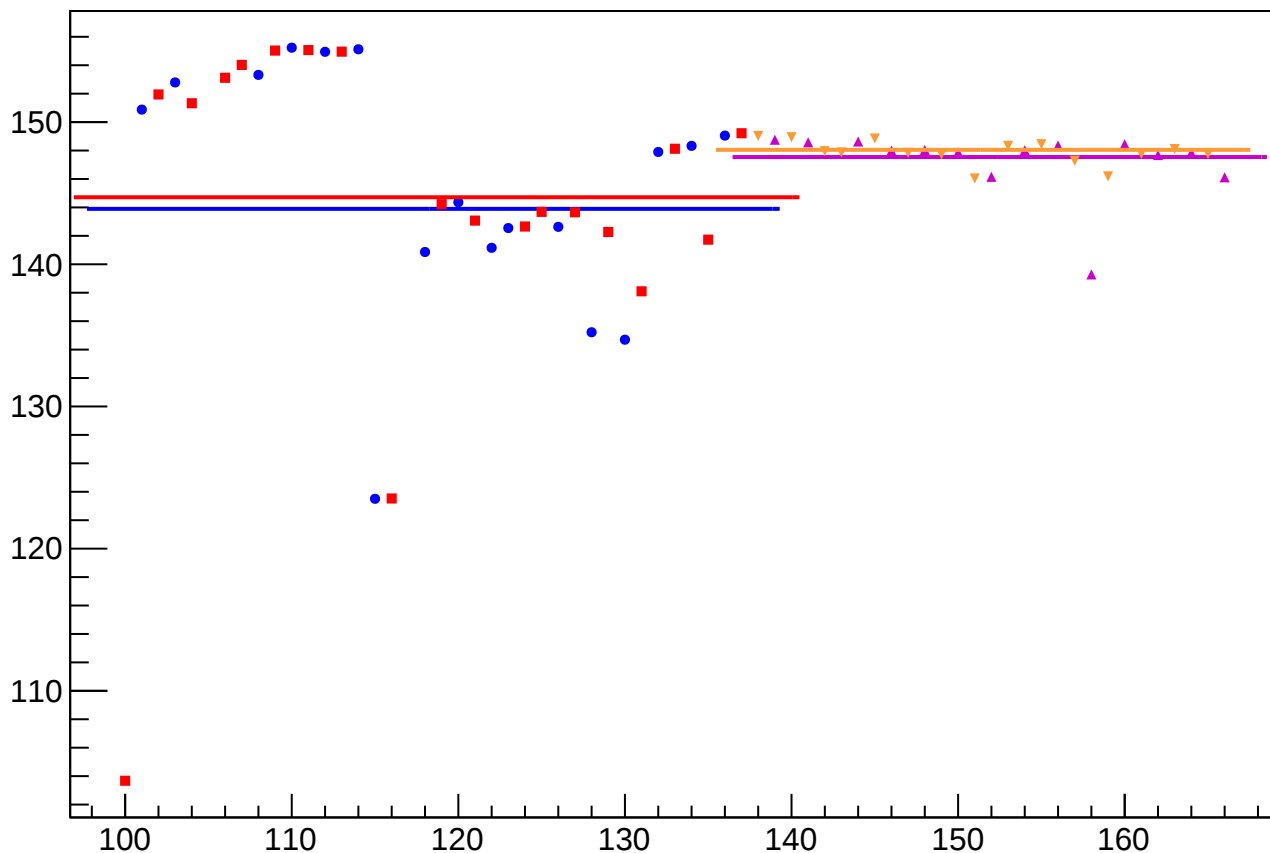
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2503090.8/35

In: 0.362 $\pm$ 0.000 χ^2/NDF : 2456536.0/30

Out: 0.360 $\pm$ 0.000 χ^2/NDF : 2440772.3/33

All: 0.361 $\pm$ 0.000 χ^2/NDF : 4897854.5/64

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: 147.543 $\pm$ 0.000 χ^2 /NDF: 322863084.8/13

Left: 147.803 $\pm$ 0.000 χ^2 /NDF: 380324684.0/28

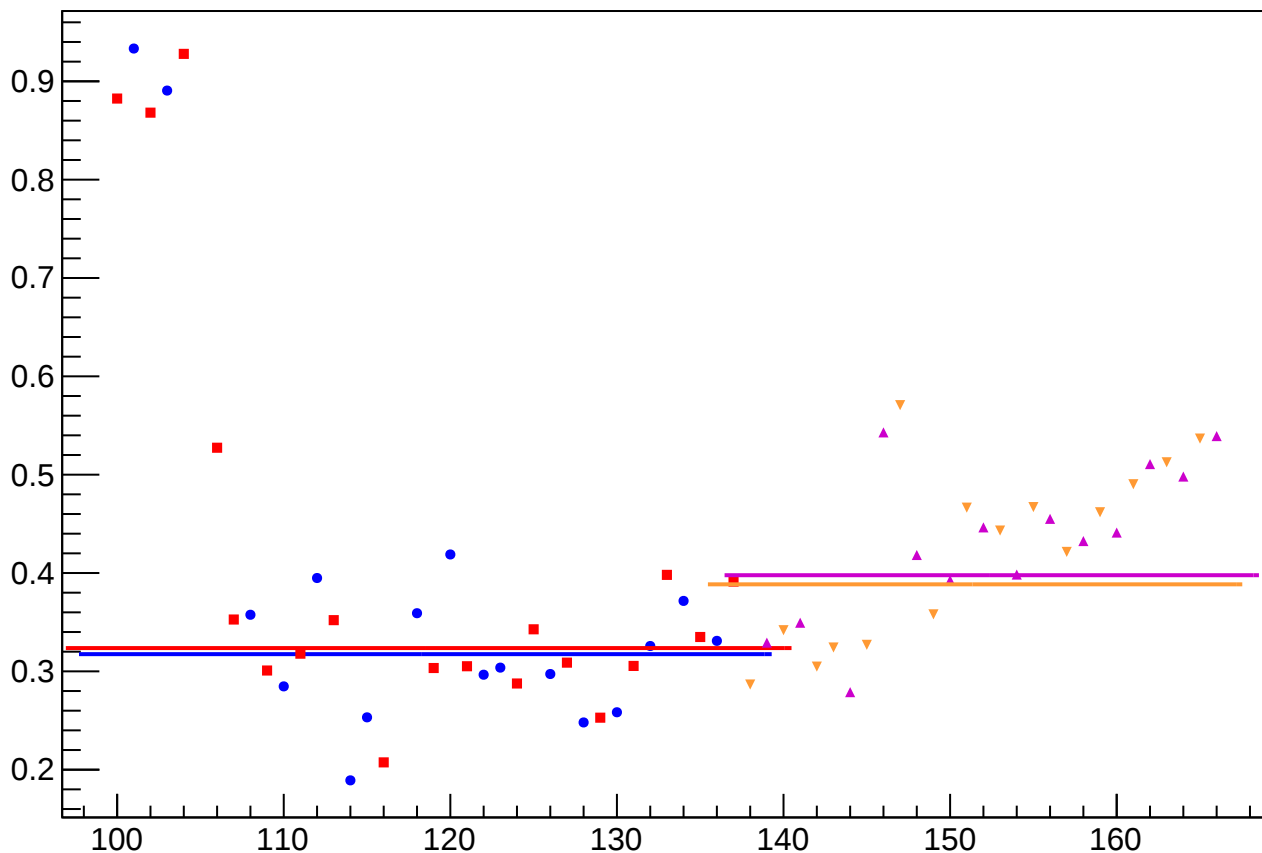
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 145.848 $\pm$ 0.000 χ^2 /NDF: 4465844990.7/30

Out: 146.538 $\pm$ 0.000 χ^2 /NDF: 4863411893.2/33

All: 146.199 $\pm$ 0.000 χ^2 /NDF: 9358035448.5

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1293179.2/16

Left Out: 0.388 $\pm$ 0.000 χ^2 /NDF: 931201.7/14

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1221676.7/18

Left In: 0.398 $\pm$ 0.000 χ^2 /NDF: 770263.0/13

Left: 0.393 $\pm$ 0.000 χ^2 /NDF: 1707111.2/28

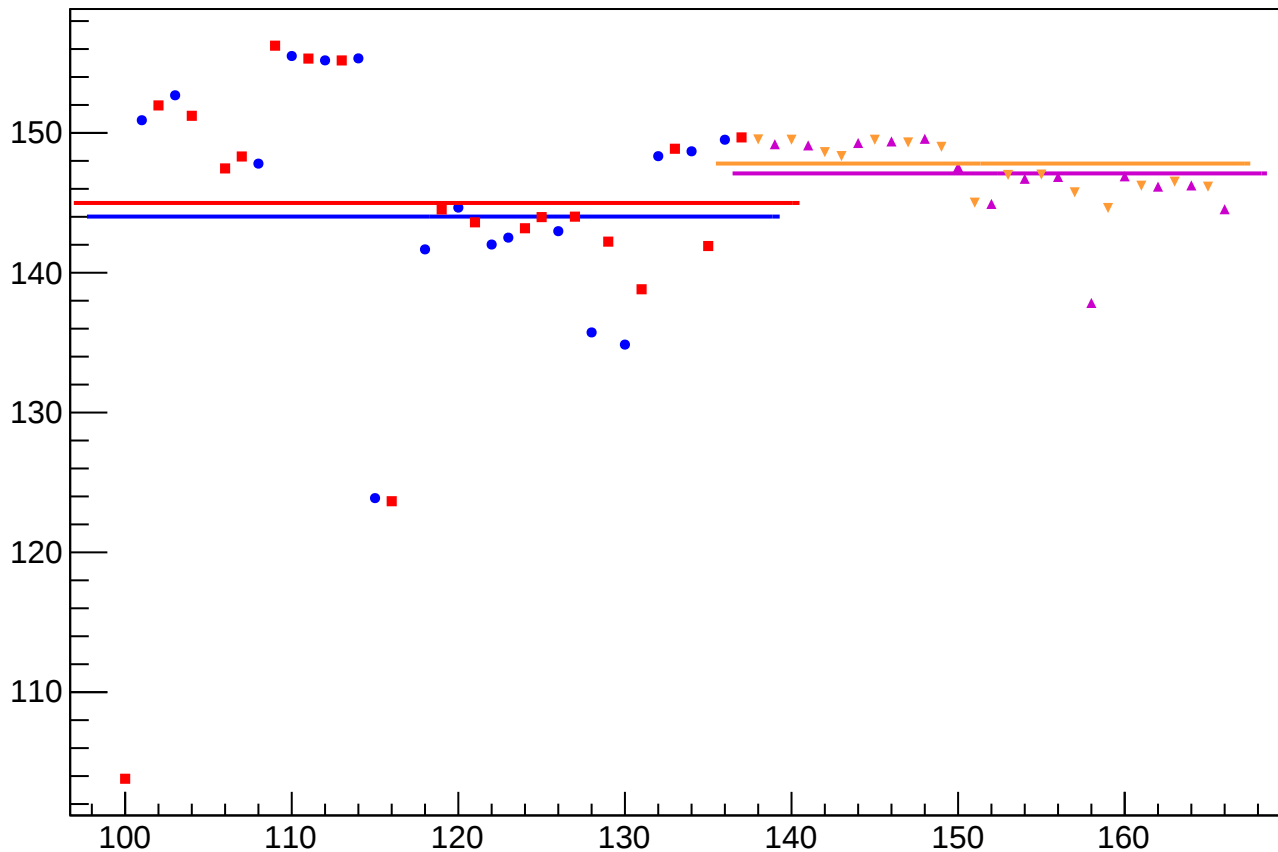
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2516974.9/35

In: 0.360 $\pm$ 0.000 χ^2 /NDF: 2444980.0/30

Out: 0.359 $\pm$ 0.000 χ^2 /NDF: 2410070.0/33

All: 0.360 $\pm$ 0.000 χ^2 /NDF: 4855264.6/64

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.810 $\pm$ 0.000 χ^2 /NDF: 176595625.1/14

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 147.104 $\pm$ 0.000 χ^2 /NDF: 497635333.3/13

Left: 147.467 $\pm$ 0.000 χ^2 /NDF: 689363437.6/28

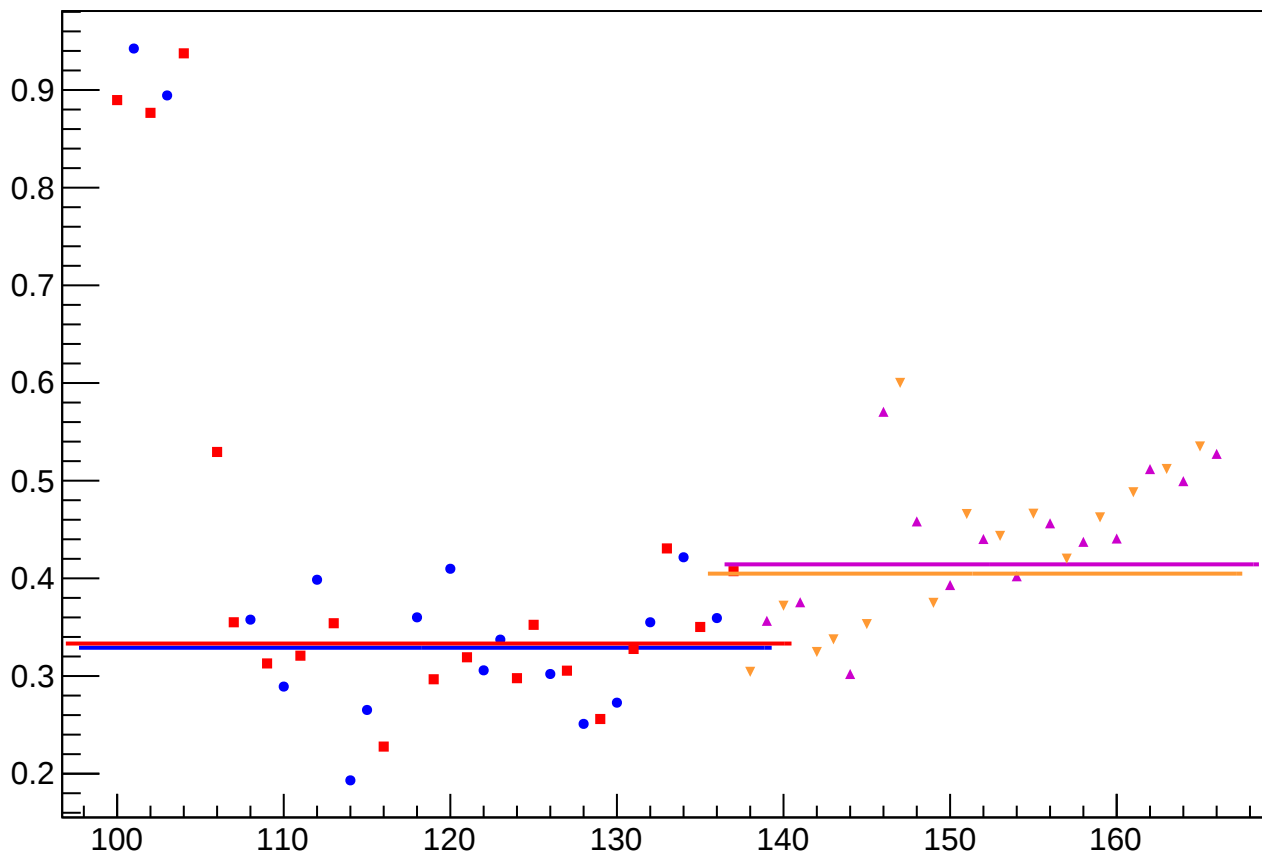
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.669 $\pm$ 0.000 χ^2 /NDF: 3998043832.5/30

Out: 146.520 $\pm$ 0.000 χ^2 /NDF: 4257446696.4/33

All: 146.103 $\pm$ 0.000 χ^2 /NDF: 8296353794.3

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.405+/-0.000 χ^2/NDF : 728311.9/14

Right Out: 0.333+/-0.000 χ^2/NDF : 1182496.7/18

Left In: 0.414+/-0.000 χ^2/NDF : 582512.4/13

Left: 0.409+/-0.000 χ^2/NDF : 1316314.7/28

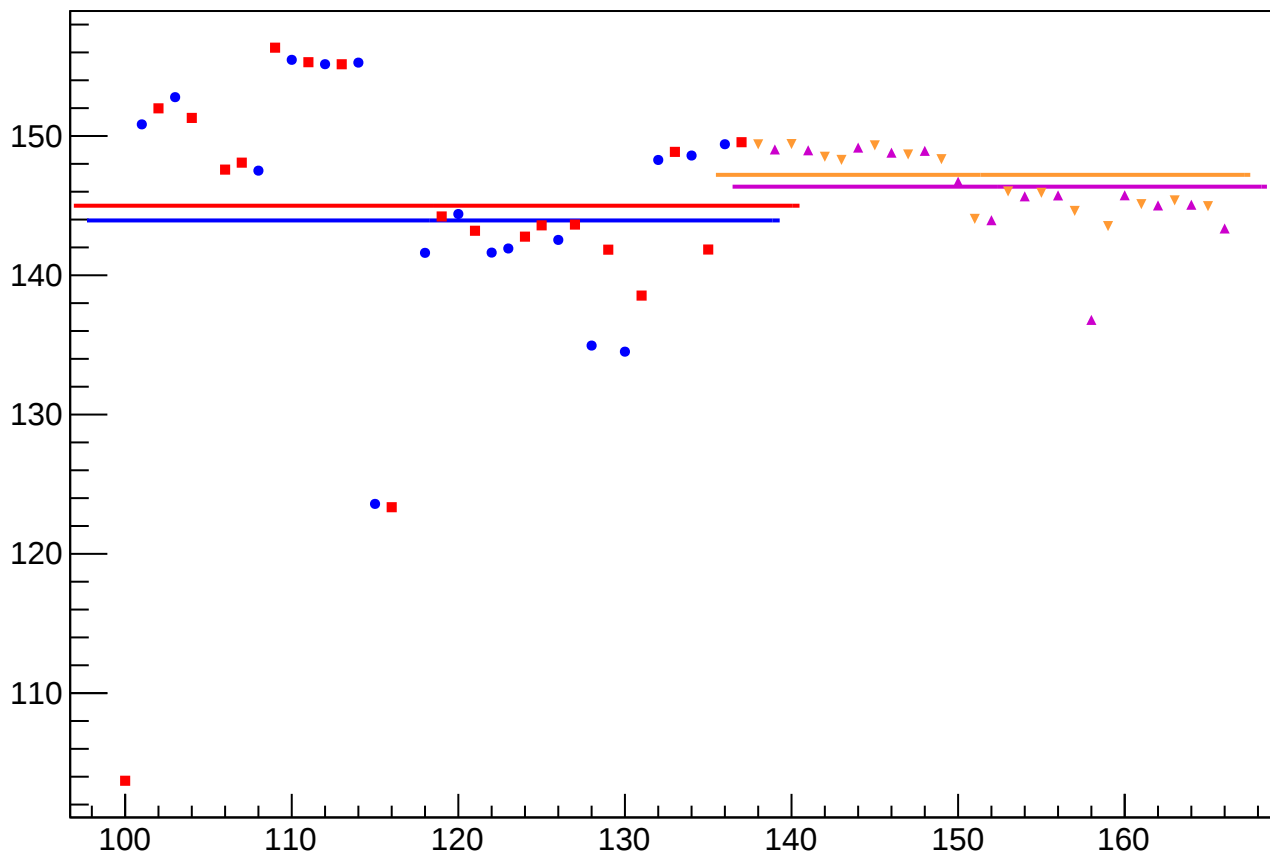
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.375+/-0.000 χ^2/NDF : 2259417.9/30

Out: 0.372+/-0.000 χ^2/NDF : 2203823.8/33

All: 0.373+/-0.000 χ^2/NDF : 4463969.7/64

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: 146.362 $\pm$ 0.000 χ^2 /NDF: 611508388.9/13

Left: 146.799 $\pm$ 0.000 χ^2 /NDF: 903399535.7/28

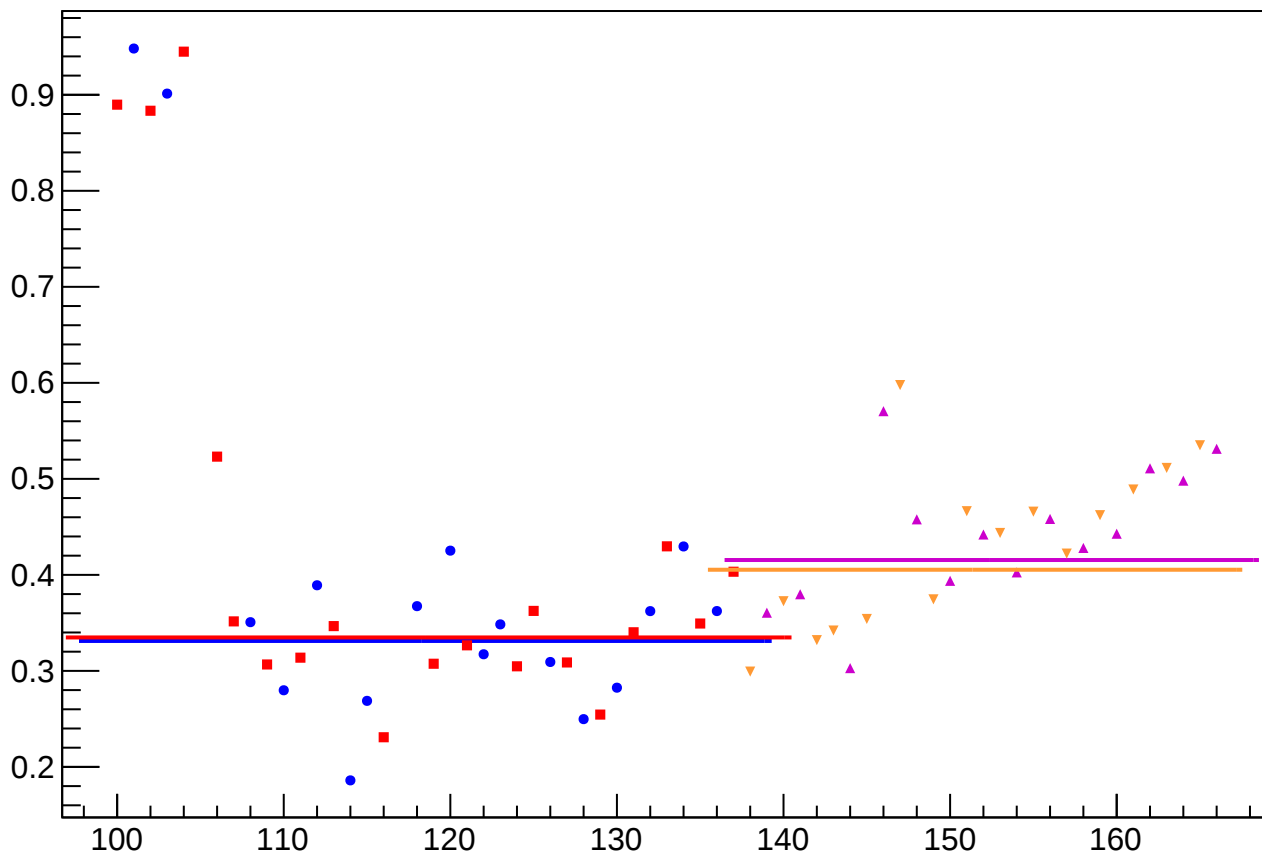
Right: 144.474 $\pm$ 0.000 χ^2 /NDF: 7341982360.6/35

In: 145.241 $\pm$ 0.000 χ^2 /NDF: 4150404238.5/30

Out: 146.201 $\pm$ 0.000 χ^2 /NDF: 4343539706.5/33

All: 145.732 $\pm$ 0.000 χ^2 /NDF: 8545508061.1

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: 0.415+/-0.000 χ^2/NDF : 566817.3/13

Left: 0.410+/-0.000 χ^2/NDF : 1299365.0/28

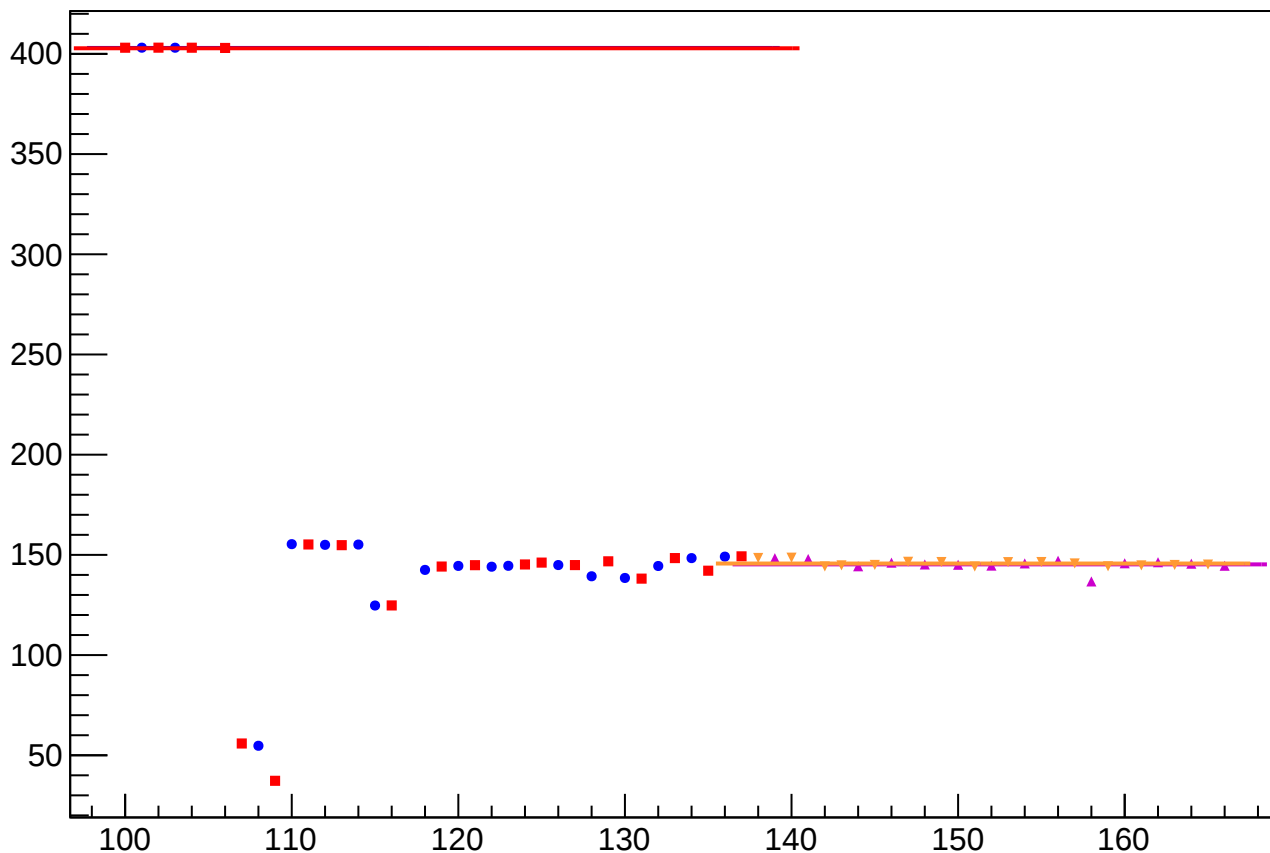
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.377+/-0.000 χ^2/NDF : 2248574.3/30

Out: 0.373+/-0.000 χ^2/NDF : 2180818.5/33

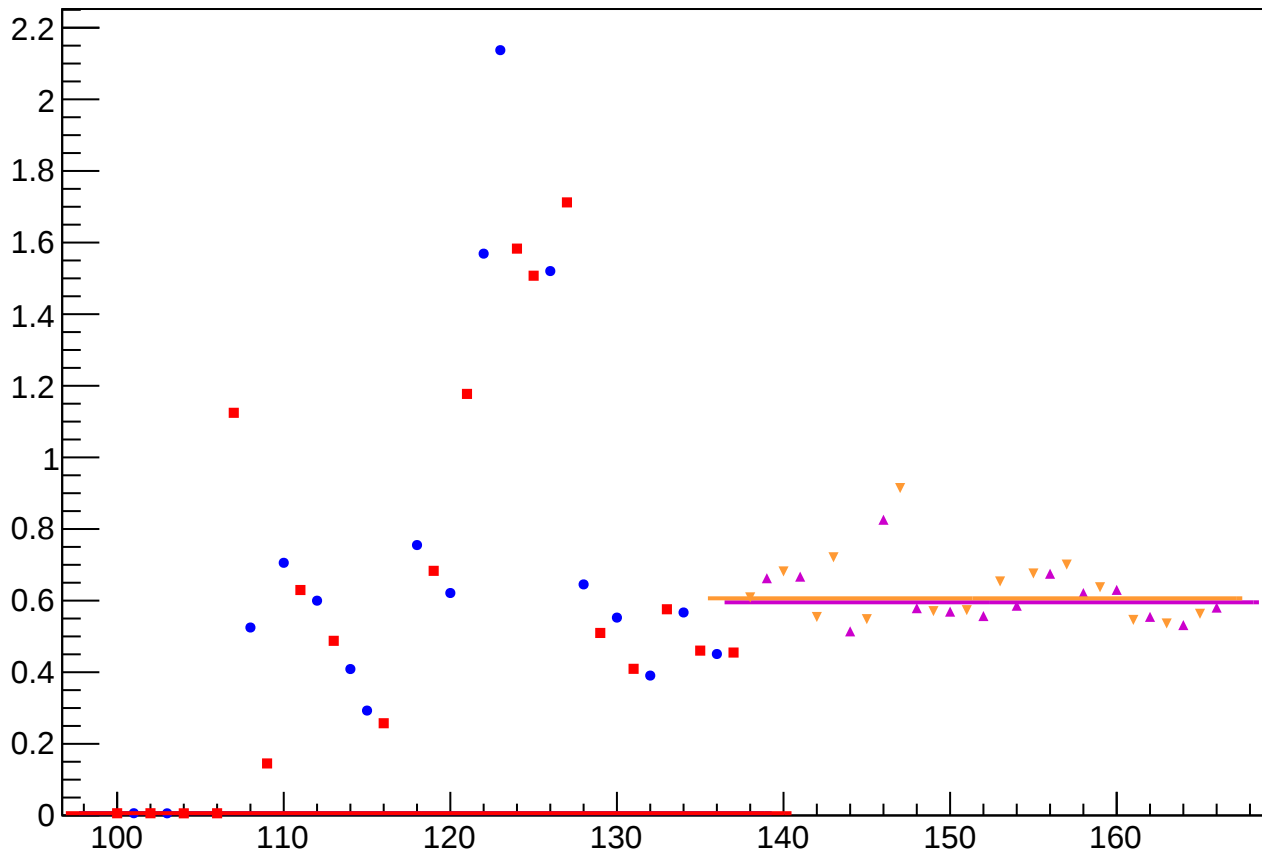
All: 0.375+/-0.000 χ^2/NDF : 4430599.3/64

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1096710296821.6/16	Left: 145.468+/-0.000	χ^2/NDF : 172337570.8/28
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: 402.778+/-0.000	χ^2/NDF : 2535074966248.9/30
Left In: 145.259+/-0.000	χ^2/NDF : 129891734.7/13	Out: 402.645+/-0.000	χ^2/NDF : 4499855471657.2/30
		All: 402.707+/-0.000	χ^2/NDF : 703522541620.8/16

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: 0.595+/-0.000 χ^2/NDF : 188258.5/13

Left: 0.601+/-0.000 χ^2/NDF : 446122.9/28

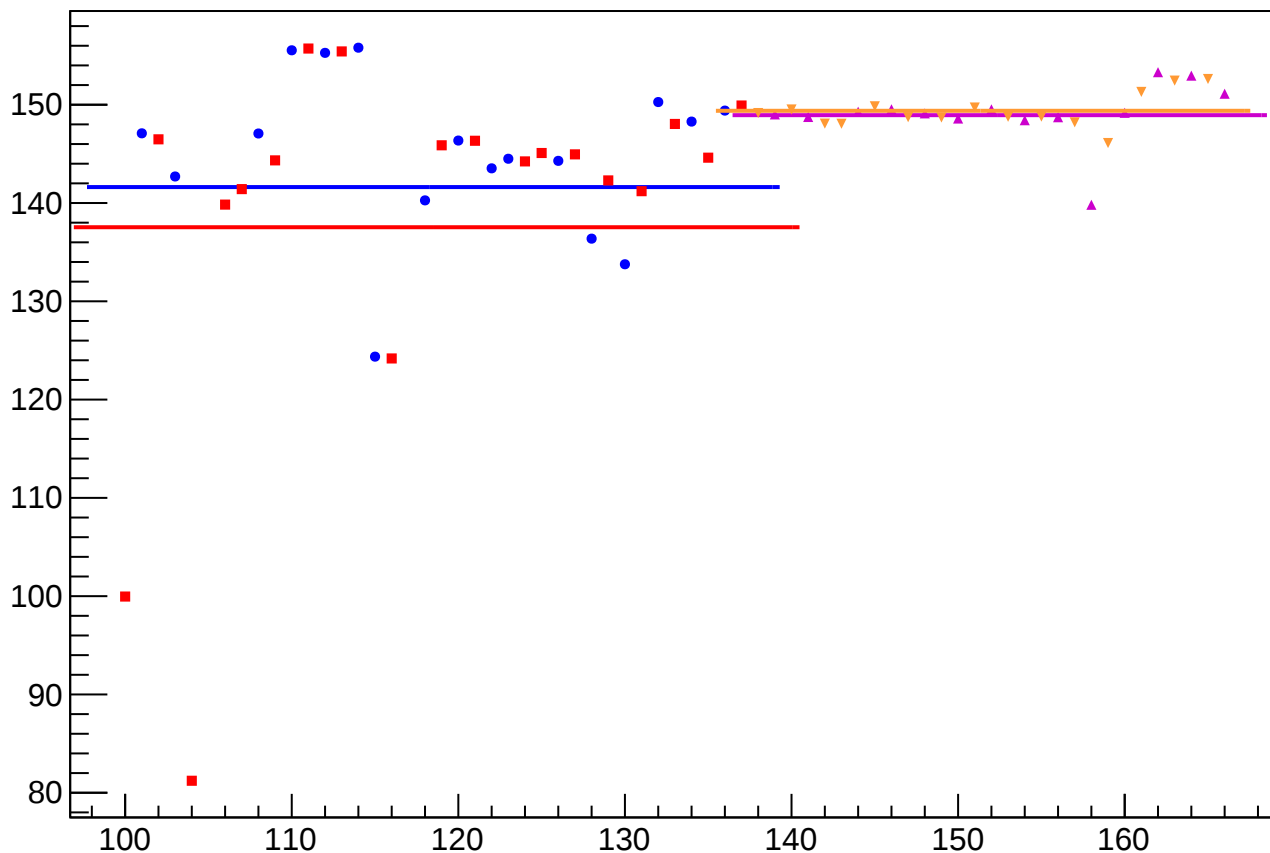
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 24374062.0/30

Out: 0.007+/-0.000 χ^2/NDF : 24675980.1/33

All: 0.007+/-0.000 χ^2/NDF : 49050167.0/64

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.383 $\pm$ 0.000 χ^2 /NDF: 102598823.6/14

Right Out: 137.536 $\pm$ 0.000 χ^2 /NDF: 1315768553.6/18

Left In: 148.938 $\pm$ 0.000 χ^2 /NDF: 363057951.2/13

Left: 149.164 $\pm$ 0.000 χ^2 /NDF: 469163605.1/28

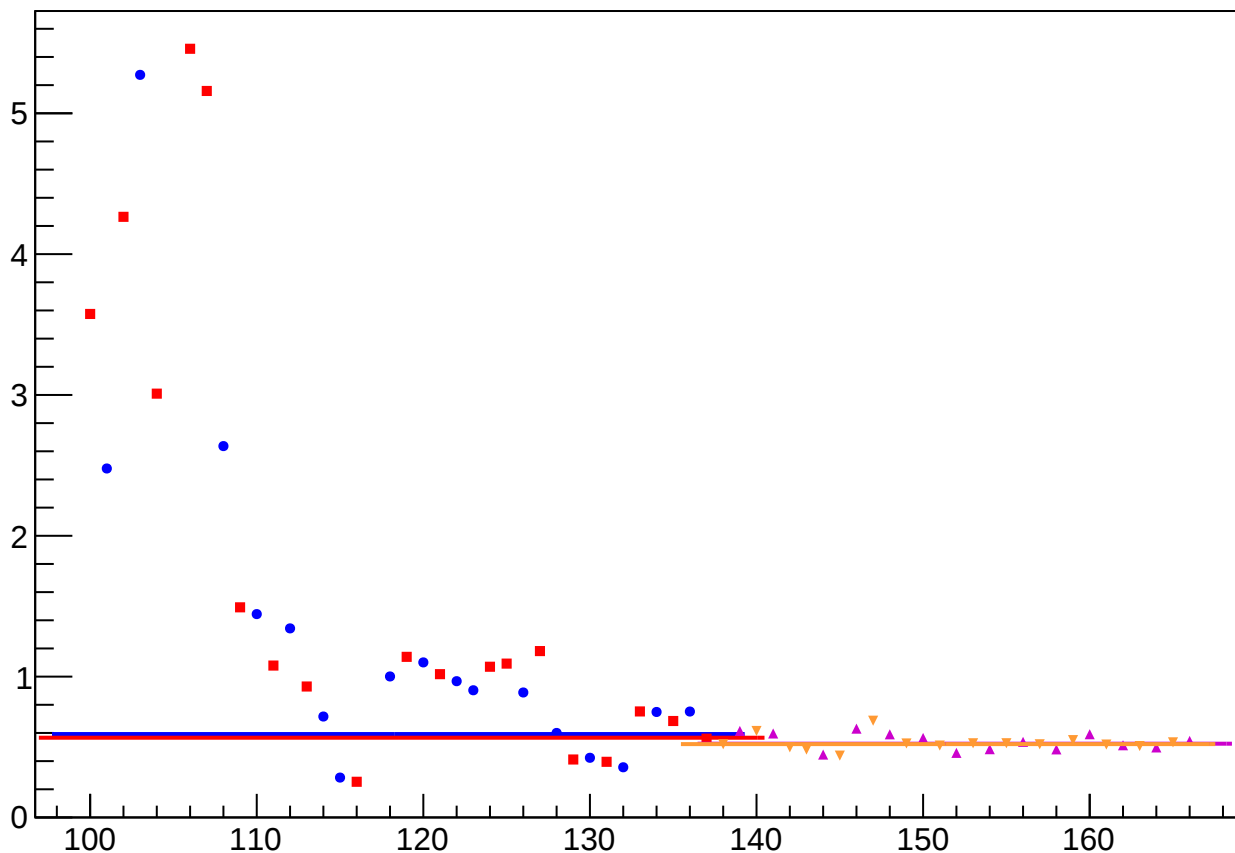
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.295 $\pm$ 0.000 χ^2 /NDF: 1765081390.2/30

Out: 146.679 $\pm$ 0.000 χ^2 /NDF: 2568744327.6/33

All: 146.982 $\pm$ 0.000 χ^2 /NDF: 4342500705.7

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:1699961.0/14

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4682140.9/18

Left In: 0.524 $\pm$ 0.000 χ^2 /NDF:226716.6/13

Left: 0.522 $\pm$ 0.000 χ^2 /NDF: 396970.0/28

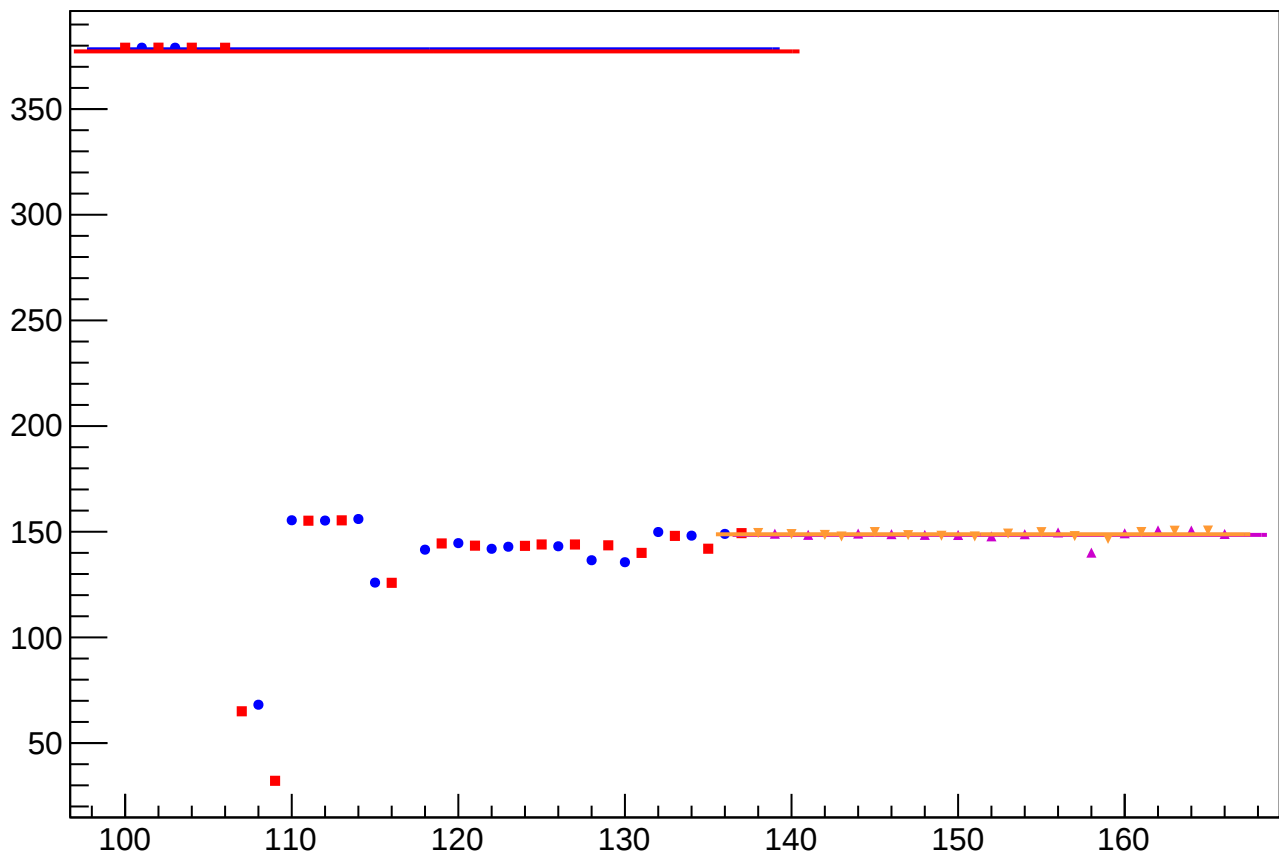
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.539 $\pm$ 0.000 χ^2 /NDF:3822064.8/30

Out: 0.531 $\pm$ 0.000 χ^2 /NDF:4885812.7/33

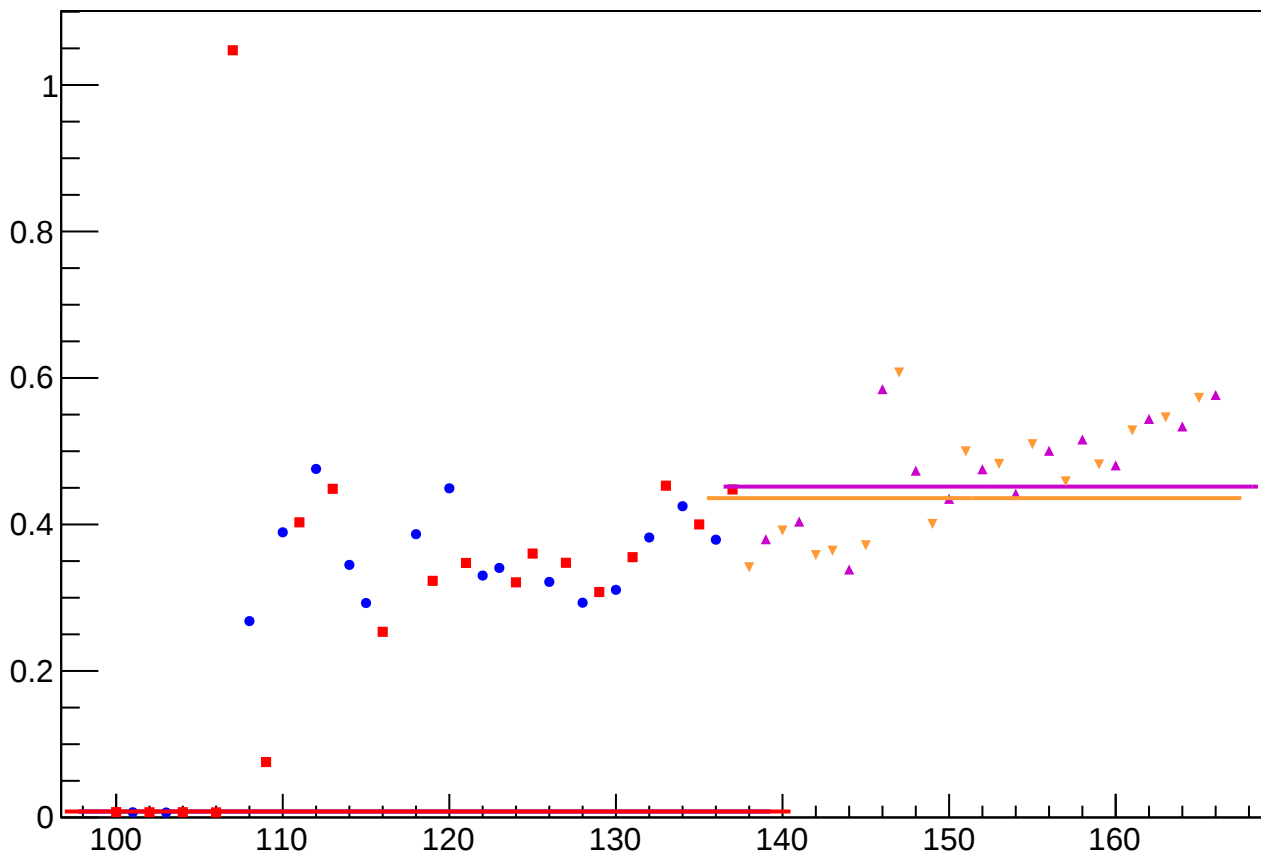
All: 0.535 $\pm$ 0.000 χ^2 /NDF: 8710751.9/64

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281 +/- 0.000 χ^2/NDF : 2512261599188.1/16
 Left Out: 148.792 +/- 0.000 χ^2/NDF : 57420674.0/14
 Right Out: 377.289 +/- 0.000 χ^2/NDF : 8279468194444.1/18
 Left In: 148.509 +/- 0.000 χ^2/NDF : 232870585.1/13
 All: 376.913 +/- 0.000 χ^2/NDF : 162827299769.0/30

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: 0.452 $\pm$ 0.000 χ^2 /NDF:516566.6/13

Left: 0.444 $\pm$ 0.000 χ^2 /NDF: 1183719.4/28

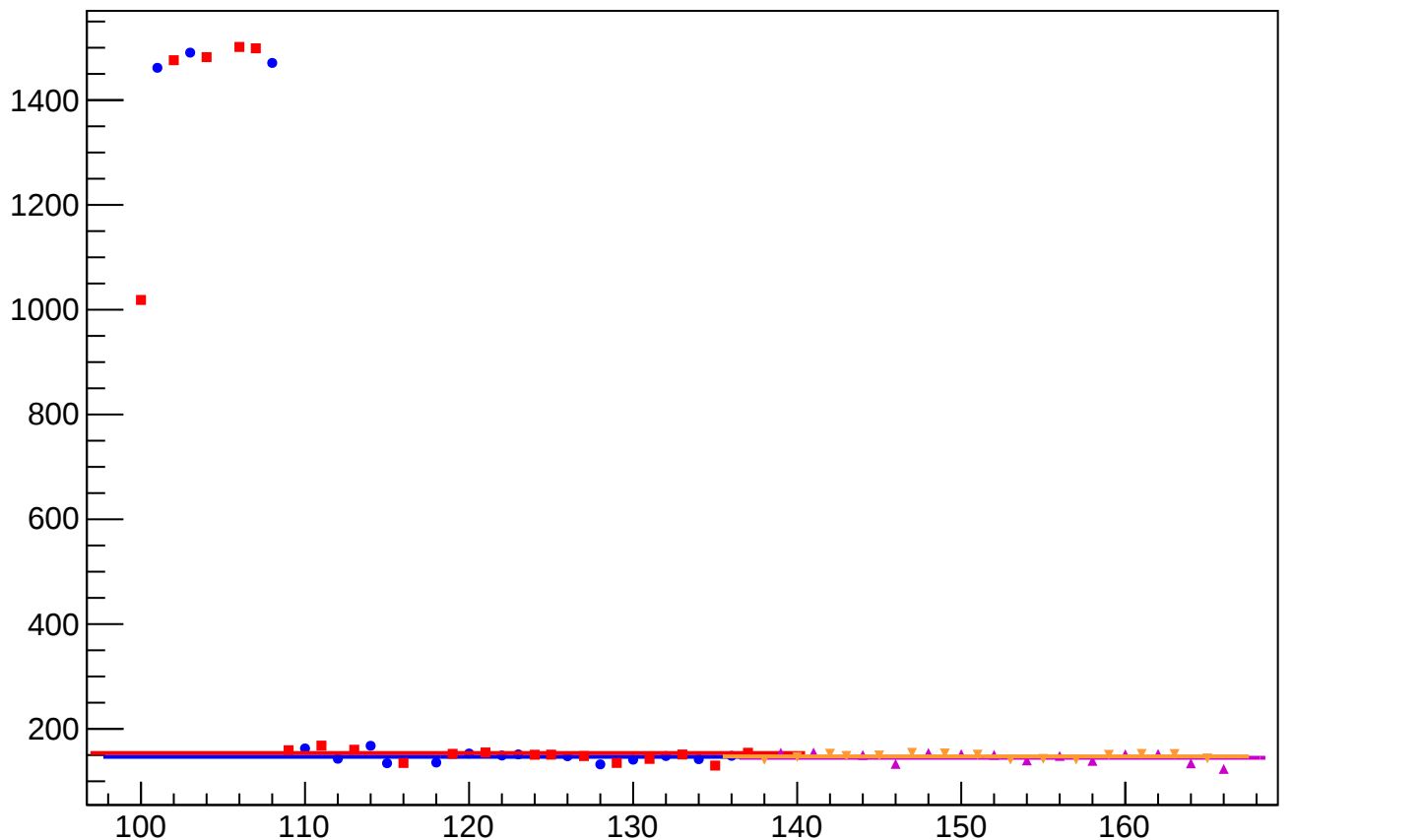
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:30103696.4/30

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:30108802.6/33

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 60212687.0/64

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: 144.863+/-0.000 χ^2/NDF : 1080750411.8/13

Left: 146.181+/-0.000 χ^2/NDF : 1373298213.5/28

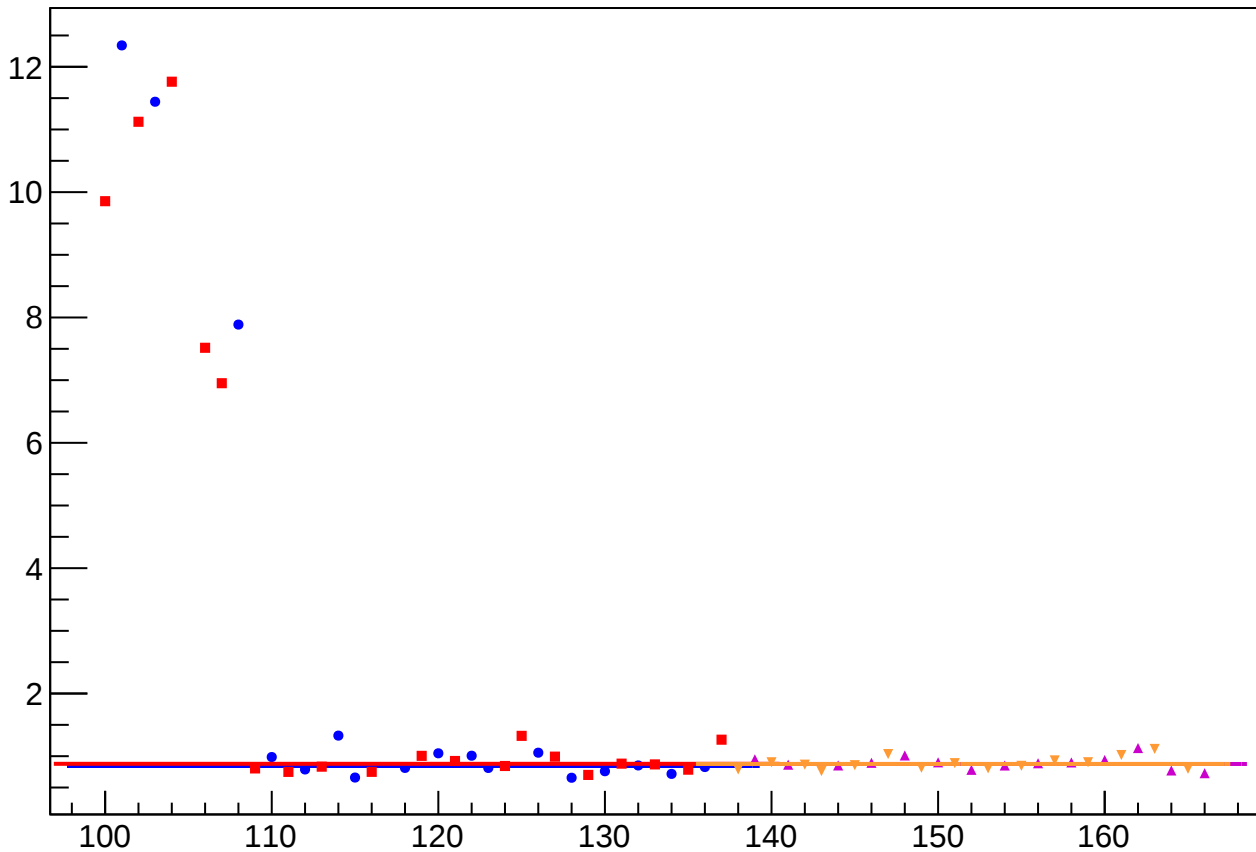
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 145.457+/-0.000 χ^2/NDF : 25444225393.0/30

Out: 149.524+/-0.000 χ^2/NDF : 34138463887.5/33

All: 147.486+/-0.000 χ^2/NDF : 59721048131.0/67

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: 0.876+/-0.000 χ^2/NDF :188580.1/13

Left: 0.876+/-0.000 χ^2/NDF : 374506.1/28

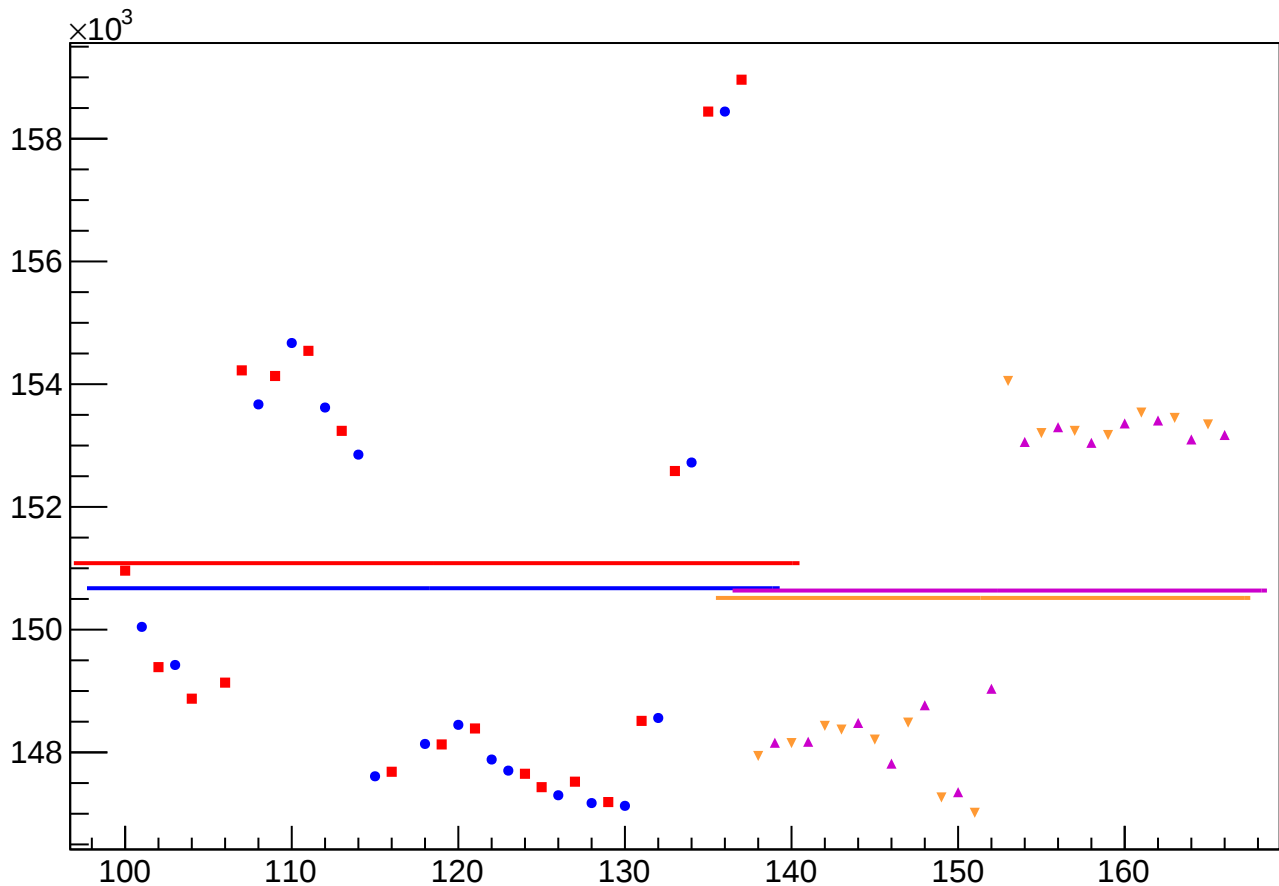
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.865+/-0.000 χ^2/NDF :2866550.3/30

Out: 0.877+/-0.000 χ^2/NDF :2998469.2/33

All: 0.871+/-0.000 χ^2/NDF : 5867116.1/64

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063

χ^2 /NDF: 3309974859.4/16

Left: 150574.806 $\pm$ 0.041

χ^2 /NDF: 4079041413.4/2

Right: 150890.022 $\pm$ 0.043

χ^2 /NDF: 6632946370.1/4

Left Out: 150516.834 $\pm$ 0.057

χ^2 /NDF: 2346543610.6/14

Right Out: 151083.268 $\pm$ 0.060

χ^2 /NDF: 3300830370.5/18

In: 150654.979 $\pm$ 0.043

χ^2 /NDF: 5040539369.5/30

Out: 150788.420 $\pm$ 0.041

χ^2 /NDF: 5694246507.1/3

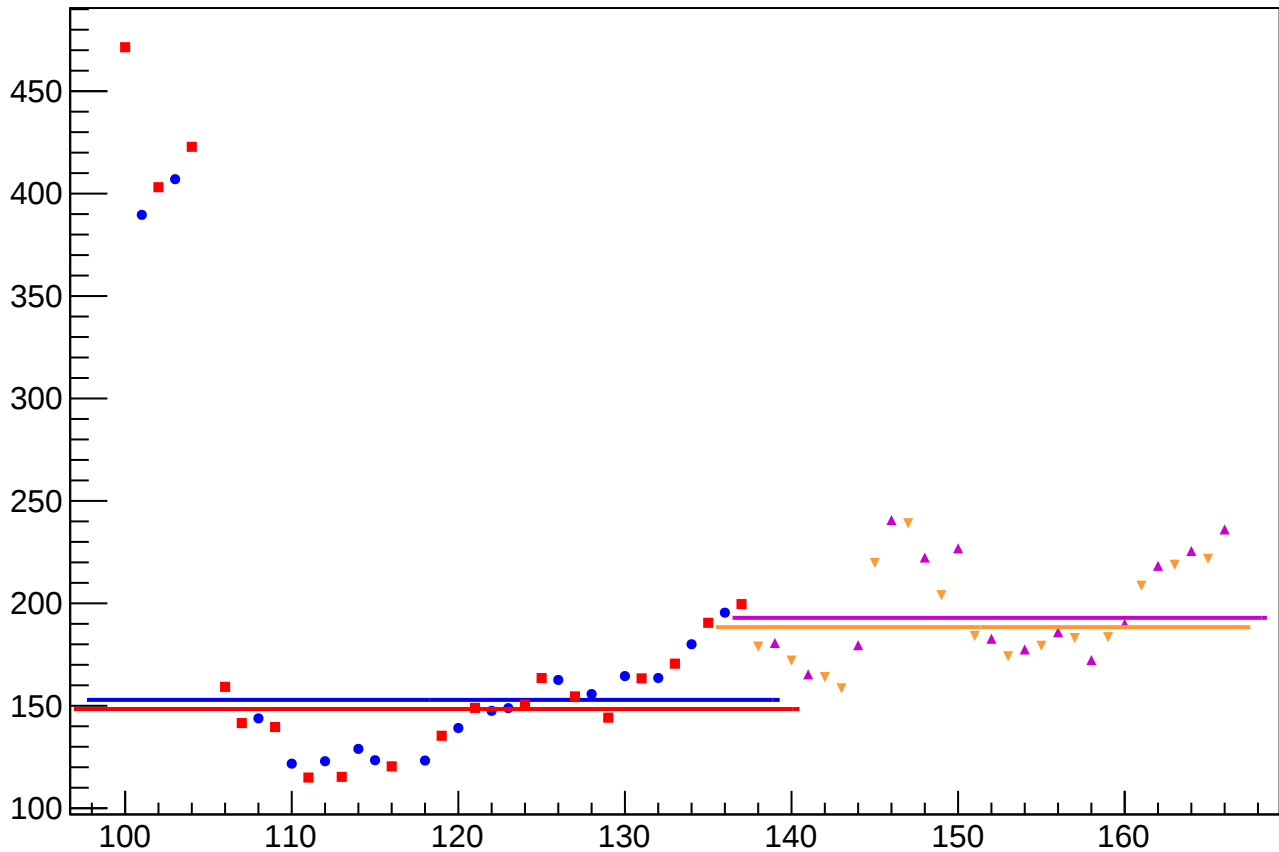
Left In: 150637.134 $\pm$ 0.059

χ^2 /NDF: 1730372894.6/13

All: 150724.657 $\pm$ 0.030

χ^2 /NDF: 107397663

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: 192.939 $\pm$ 0.042 χ^2 /NDF:315639.9/13

Left: 190.573 $\pm$ 0.029 χ^2 /NDF: 602802.0/28

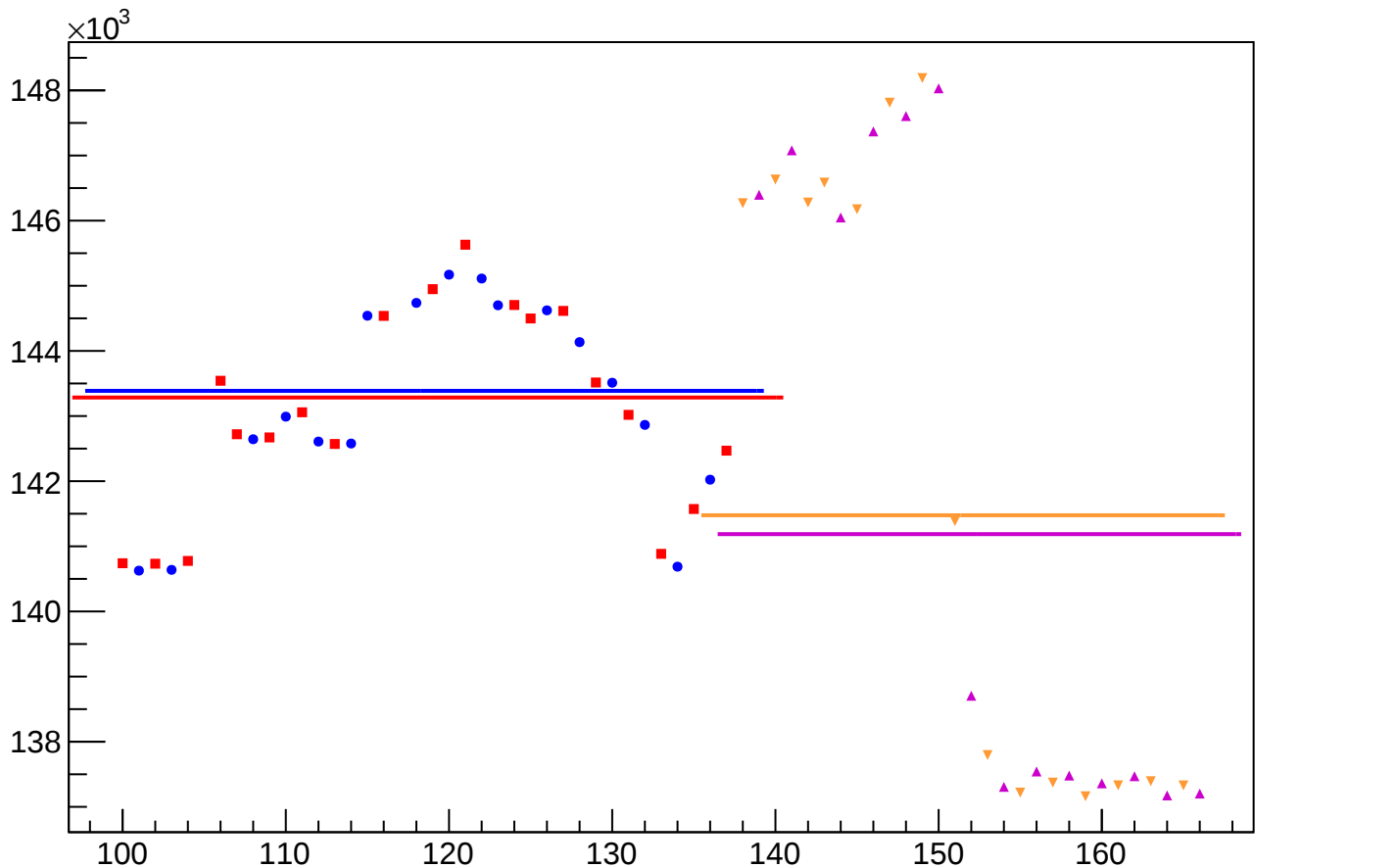
Right: 150.532 $\pm$ 0.031 χ^2 /NDF: 2350963.4/35

In: 174.075 $\pm$ 0.031 χ^2 /NDF:1898002.9/30

Out: 169.216 $\pm$ 0.029 χ^2 /NDF:1939051.4/33

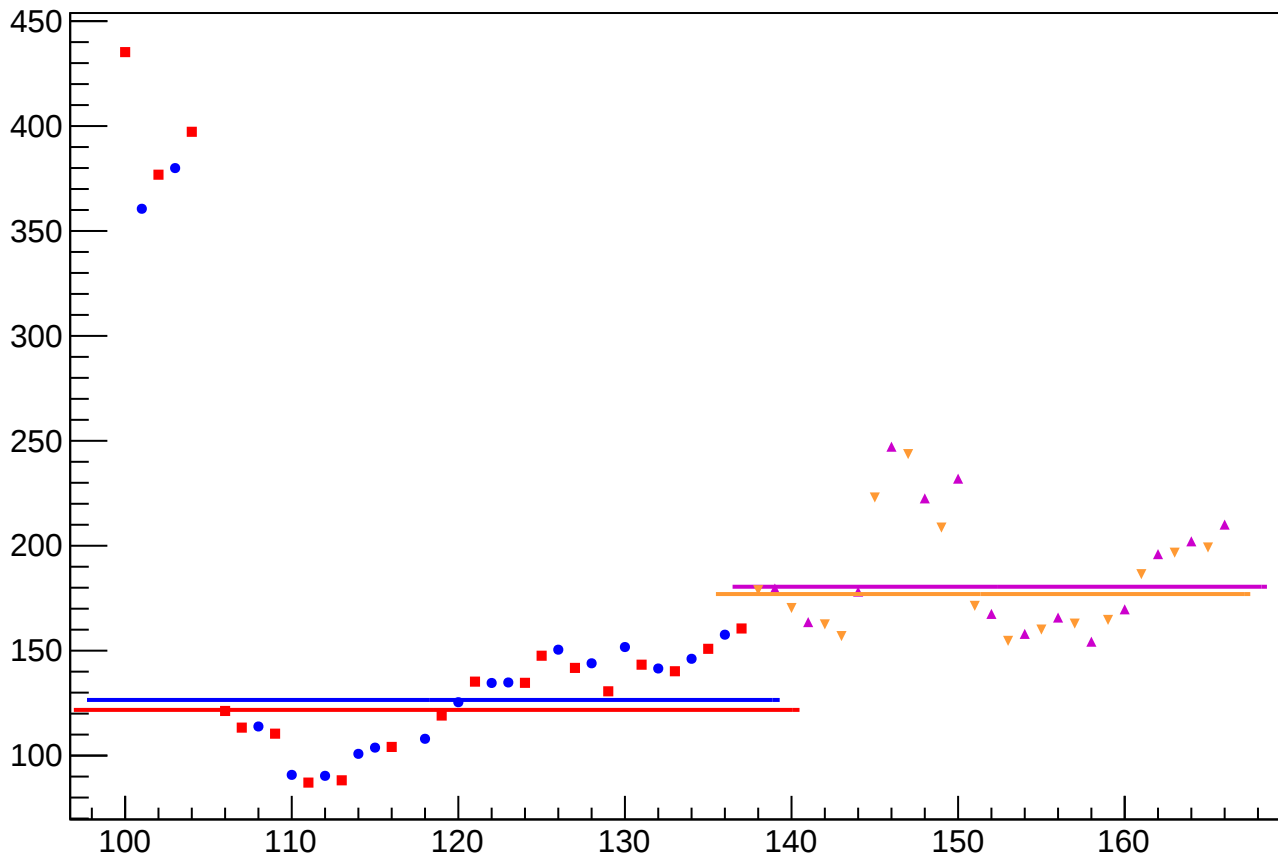
All: 171.538 $\pm$ 0.021 χ^2 /NDF: 3850262.7/64

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 141336.532 $\pm$ 0.039	χ^2 /NDF: 13772796681.3
Left Out: 141476.519 $\pm$ 0.054	χ^2 /NDF: 6961030773.6/14	Right: 143332.291 $\pm$ 0.036	χ^2 /NDF: 1131952524.8
Right Out: 143284.757 $\pm$ 0.049	χ^2 /NDF: 608634820.1/18	In: 142348.573 $\pm$ 0.038	χ^2 /NDF: 8141065881.4/30
Left In: 141187.102 $\pm$ 0.056	χ^2 /NDF: 6797854966.8/13	Out: 142465.820 $\pm$ 0.036	χ^2 /NDF: 8183894987.9/30
		All: 142410.322 $\pm$ 0.026	χ^2 /NDF: 163298941.3

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514+/-0.037 χ^2/NDF : 1441685.0/16

Left Out: 176.978+/-0.038 χ^2/NDF : 353655.2/14

Right Out: 121.772+/-0.035 χ^2/NDF : 1463829.4/18

Left In: 180.463+/-0.039 χ^2/NDF : 426455.0/13

Left: 178.664+/-0.027 χ^2/NDF : 784144.9/28

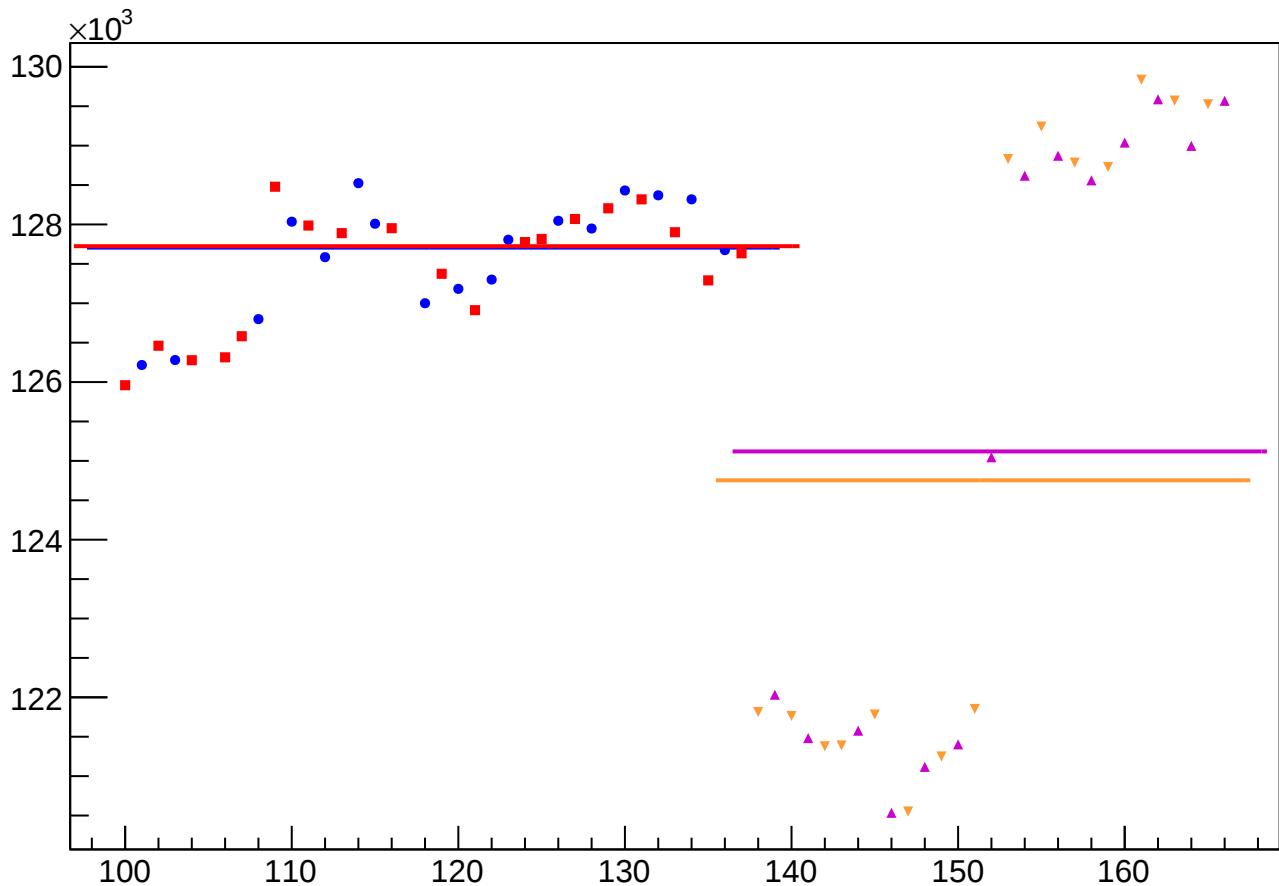
Right: 123.975+/-0.025 χ^2/NDF : 2914178.1/35

In: 151.981+/-0.027 χ^2/NDF : 2856660.5/30

Out: 146.775+/-0.026 χ^2/NDF : 2962532.7/33

All: 149.239+/-0.019 χ^2/NDF : 5838650.8/64

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: 125119.991 $\pm$ 0.052 χ^2 /NDF: 4763854571.3/13

Left: 124938.538 $\pm$ 0.037 χ^2 /NDF: 9955834725.4/2

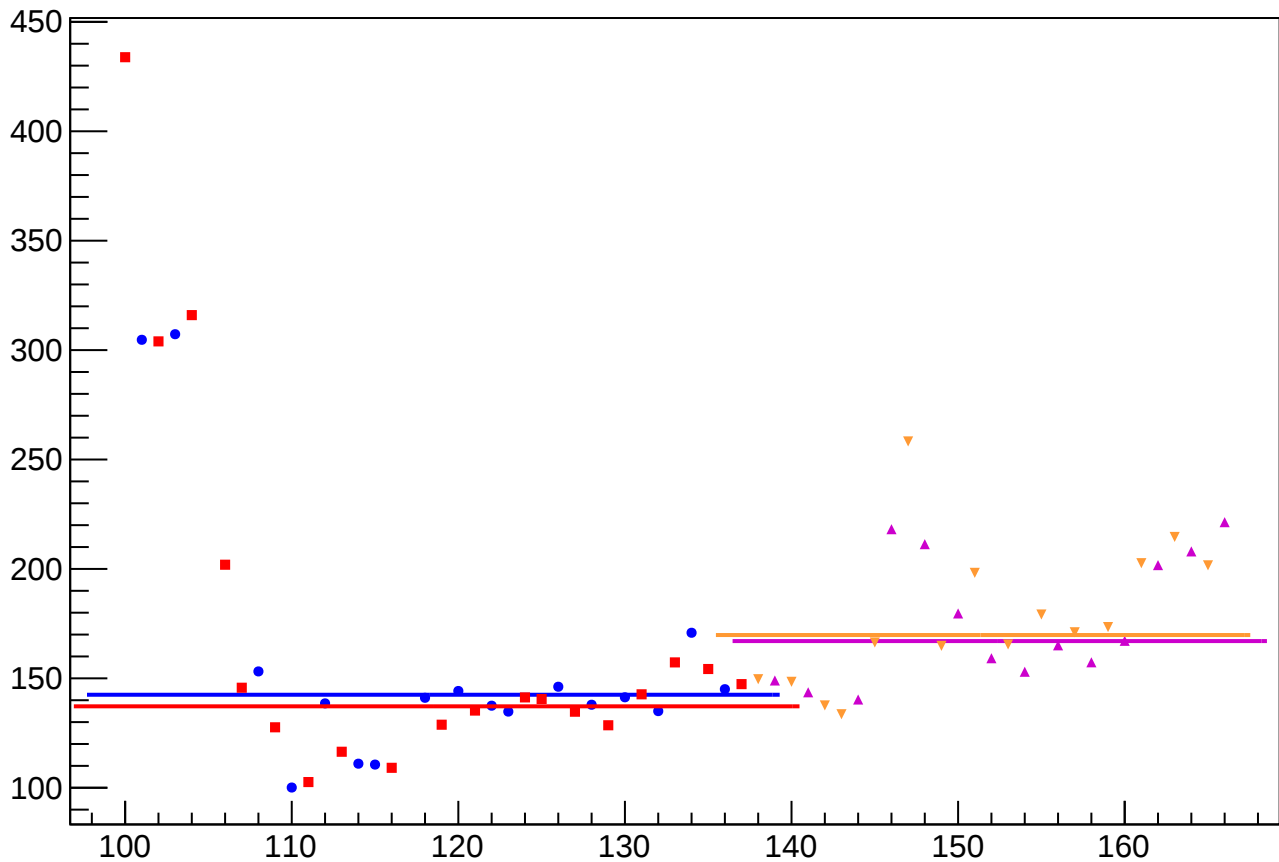
Right: 127715.791 $\pm$ 0.040 χ^2 /NDF: 210526259.6/3

In: 126269.528 $\pm$ 0.039 χ^2 /NDF: 5963953025.0/30

Out: 126180.451 $\pm$ 0.038 χ^2 /NDF: 6822399445.7/3

All: 126223.920 $\pm$ 0.027 χ^2 /NDF: 12789063

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: 167.028 $\pm$ 0.037 χ^2 /NDF:465706.6/13

Left: 168.398 $\pm$ 0.026 χ^2 /NDF: 1019769.9/28

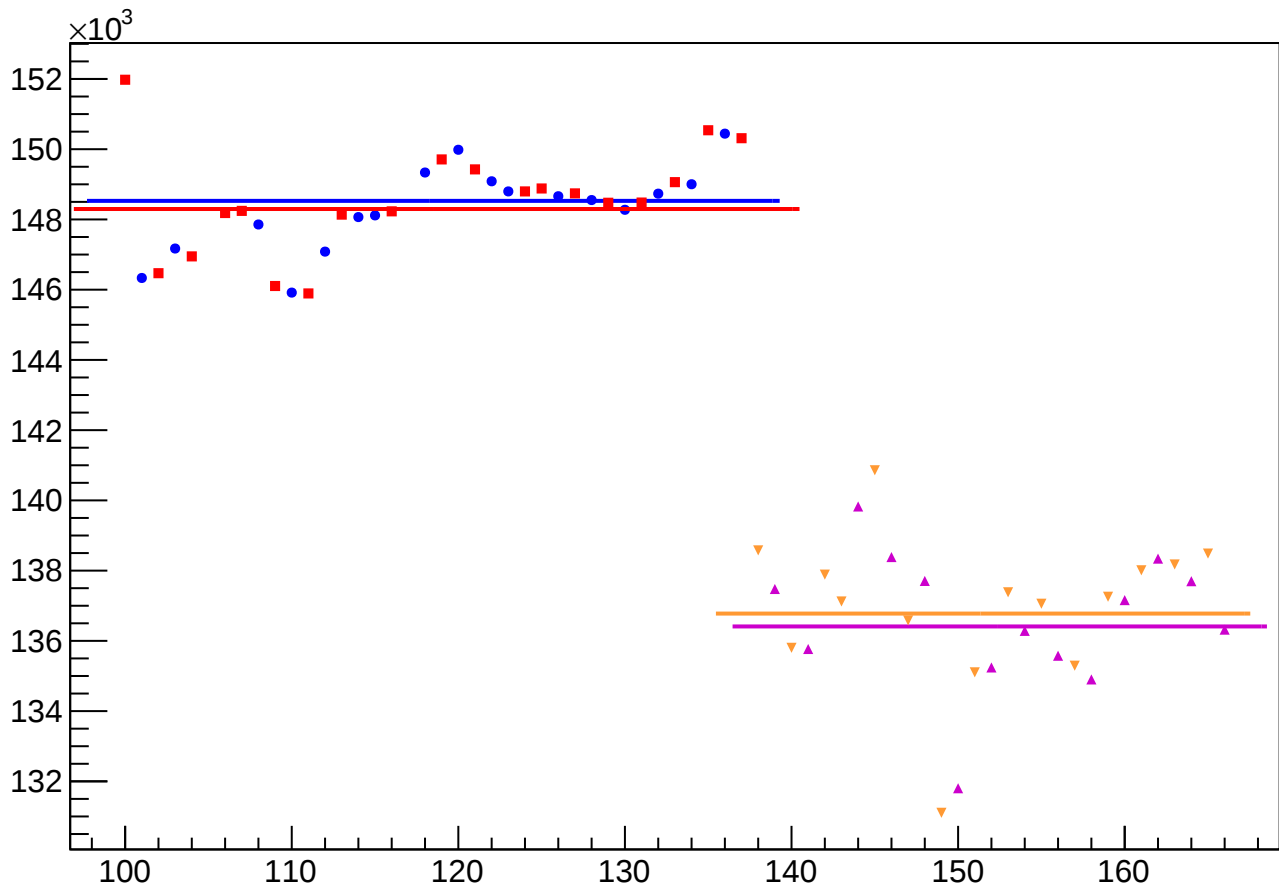
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 156.126 $\pm$ 0.027 χ^2 /NDF:1500235.1/30

Out: 154.144 $\pm$ 0.027 χ^2 /NDF:1879685.9/33

All: 155.111 $\pm$ 0.019 χ^2 /NDF: 3382606.0/64

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: 136410.590 $\pm$ 0.077 χ^2 /NDF: 637340787.8/13

Left: 136593.517 $\pm$ 0.054 χ^2 /NDF: 1478413877.8/2

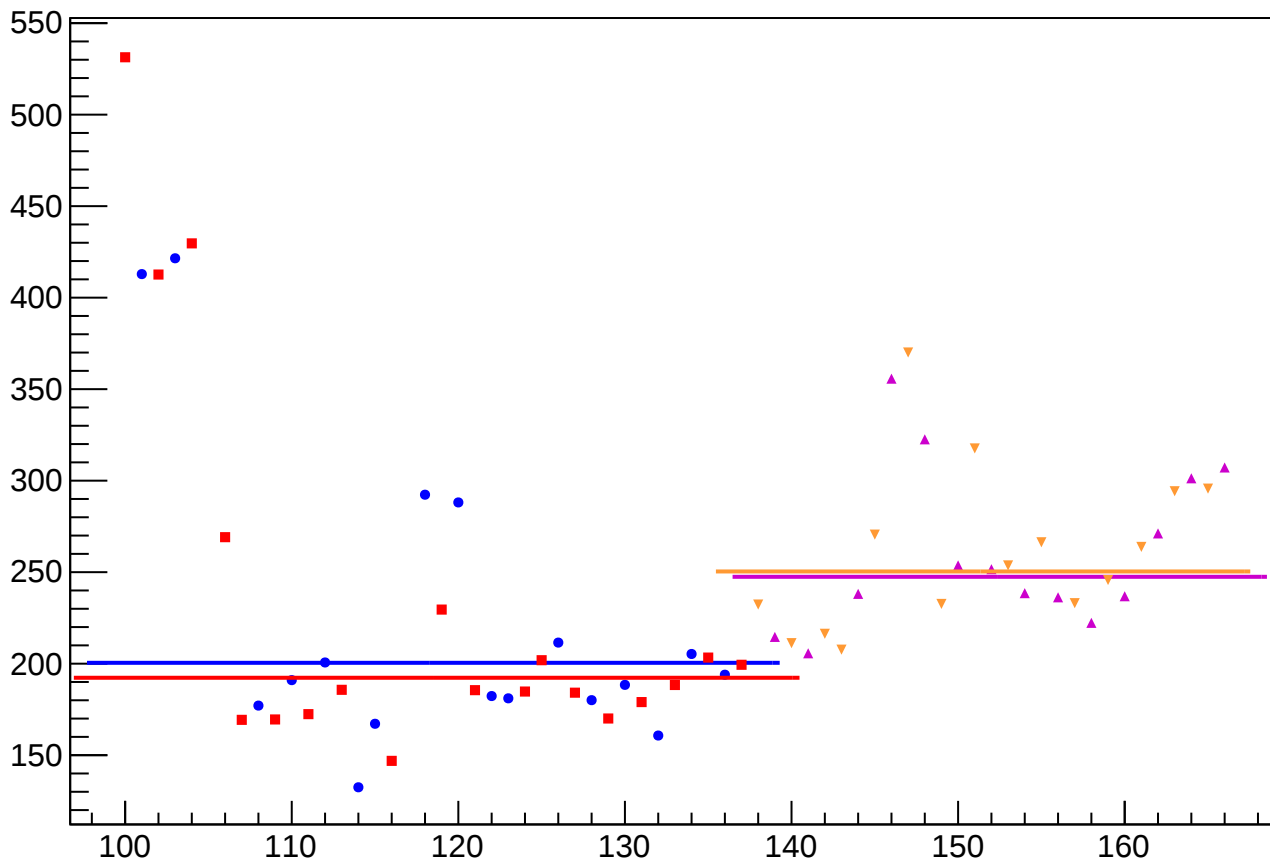
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 142054.344 $\pm$ 0.056 χ^2 /NDF: 12495835542.9/3

Out: 142563.636 $\pm$ 0.054 χ^2 /NDF: 12435465163.1

All: 142317.555 $\pm$ 0.039 χ^2 /NDF: 24974034

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 250.389+/-0.054 χ^2/NDF : 464078.7/14

Right Out: 192.304+/-0.054 χ^2/NDF : 844504.1/18

Left In: 247.470+/-0.054 χ^2/NDF : 452534.3/13

Left: 248.927+/-0.038 χ^2/NDF : 918061.6/28

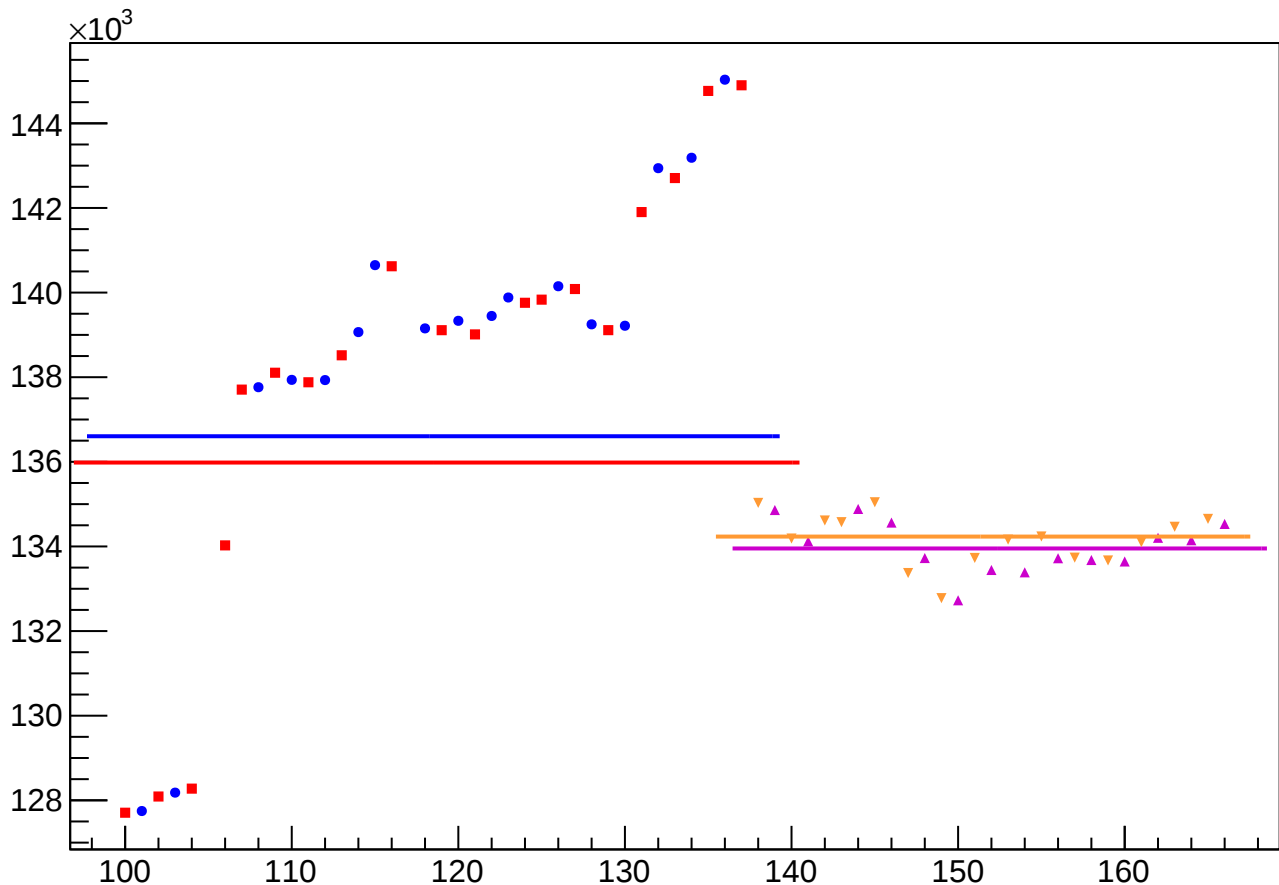
Right: 196.097+/-0.040 χ^2/NDF : 1791663.0/35

In: 225.582+/-0.040 χ^2/NDF : 1739491.3/30

Out: 221.213+/-0.038 χ^2/NDF : 1883771.5/33

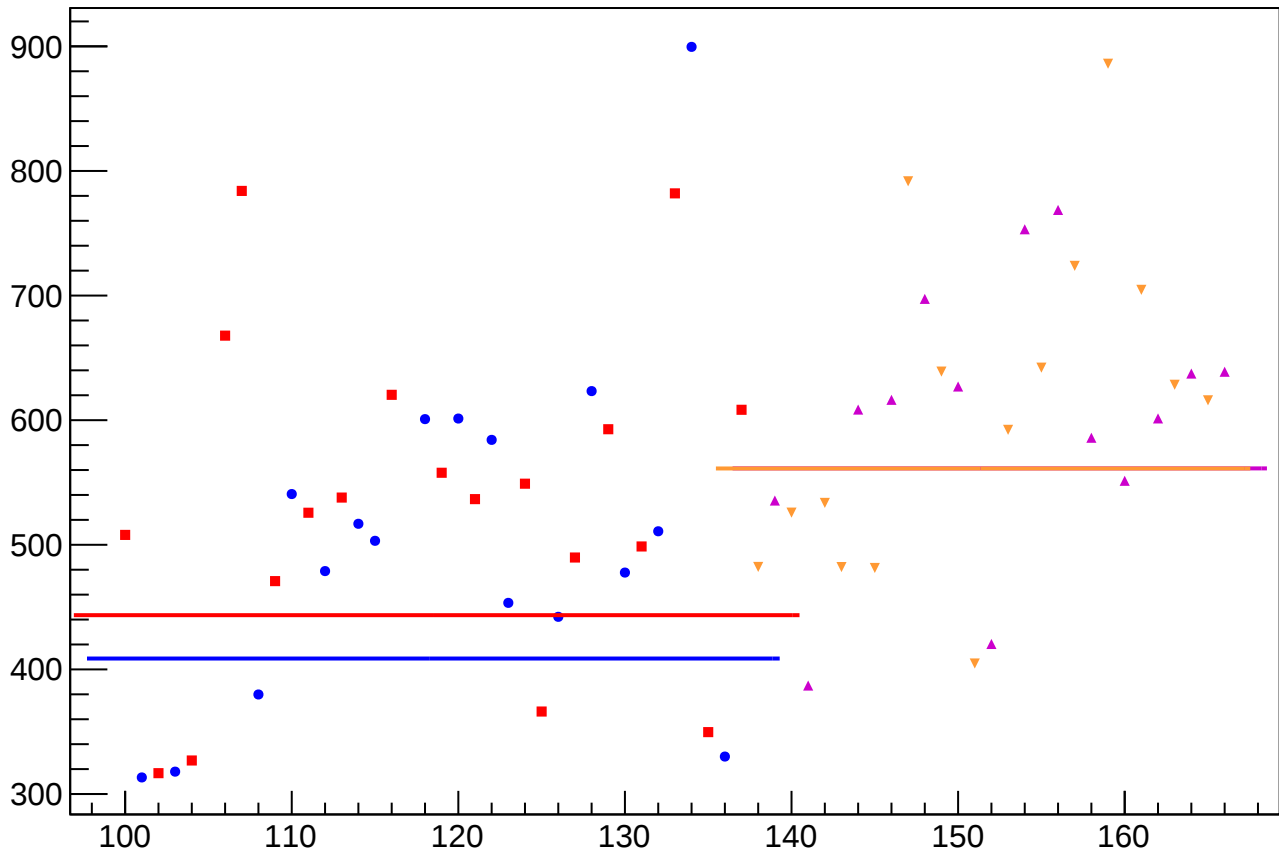
All: 223.324+/-0.028 χ^2/NDF : 3629553.1/64

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2/NDF : 1494354557.3/16	Left: 134097.183 $\pm$ 0.130	χ^2/NDF : 22076326.1/28
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: 135391.672 $\pm$ 0.126	χ^2/NDF : 1613440977.6/30
Left In: 133952.217 $\pm$ 0.187	χ^2/NDF : 9622603.0/13	Out: 135099.851 $\pm$ 0.129	χ^2/NDF : 1140005843.3/30
		All: 135248.364 $\pm$ 0.090	χ^2/NDF : 275606868.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729+/-0.121 χ^2/NDF : 823262.8/16

Left Out: 561.247+/-0.128 χ^2/NDF : 828119.1/14

Right Out: 443.521+/-0.129 χ^2/NDF : 917492.4/18

Left In: 561.308+/-0.132 χ^2/NDF : 737494.8/13

Left: 561.276+/-0.092 χ^2/NDF : 1565614.1/28

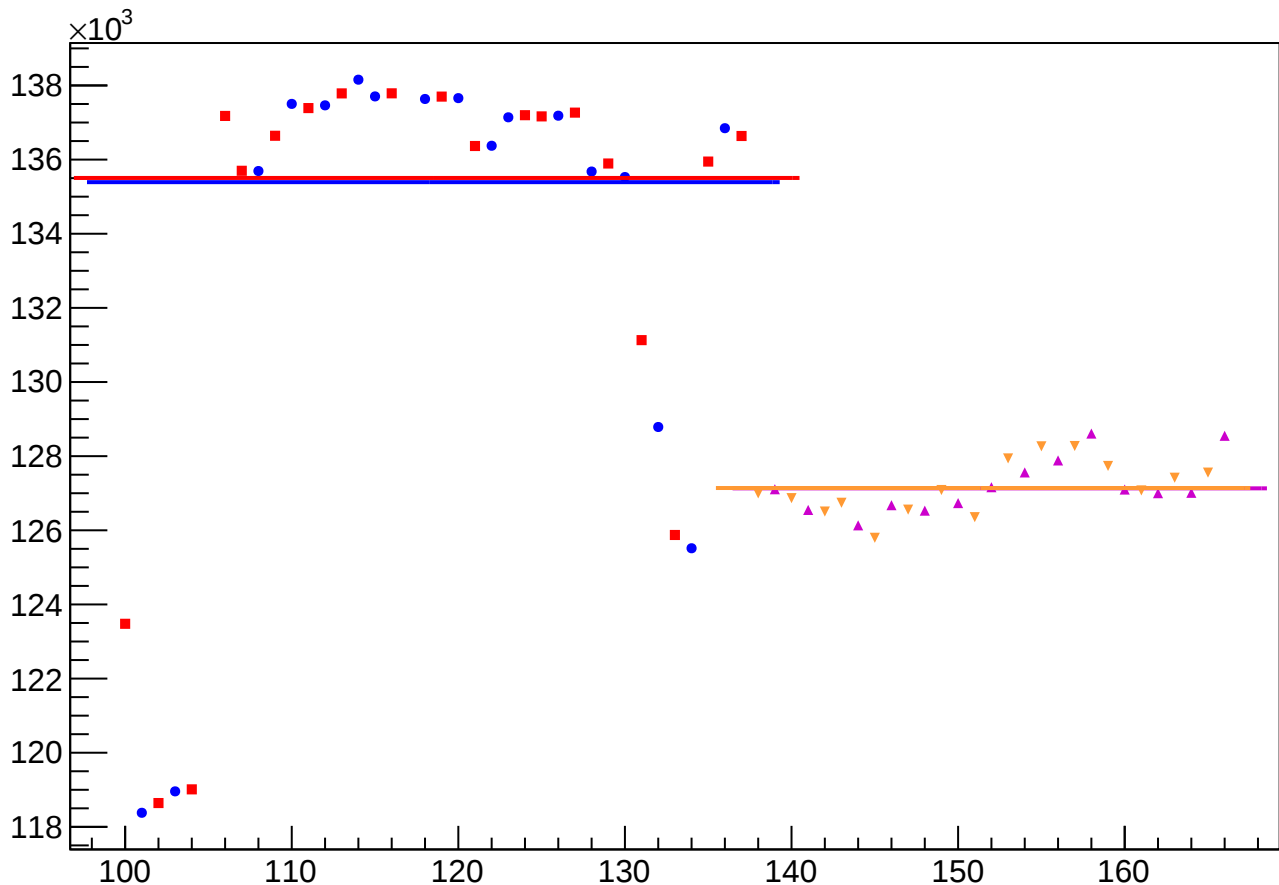
Right: 425.022+/-0.088 χ^2/NDF : 1779326.9/35

In: 478.504+/-0.089 χ^2/NDF : 2285199.8/30

Out: 502.937+/-0.091 χ^2/NDF : 2164796.1/33

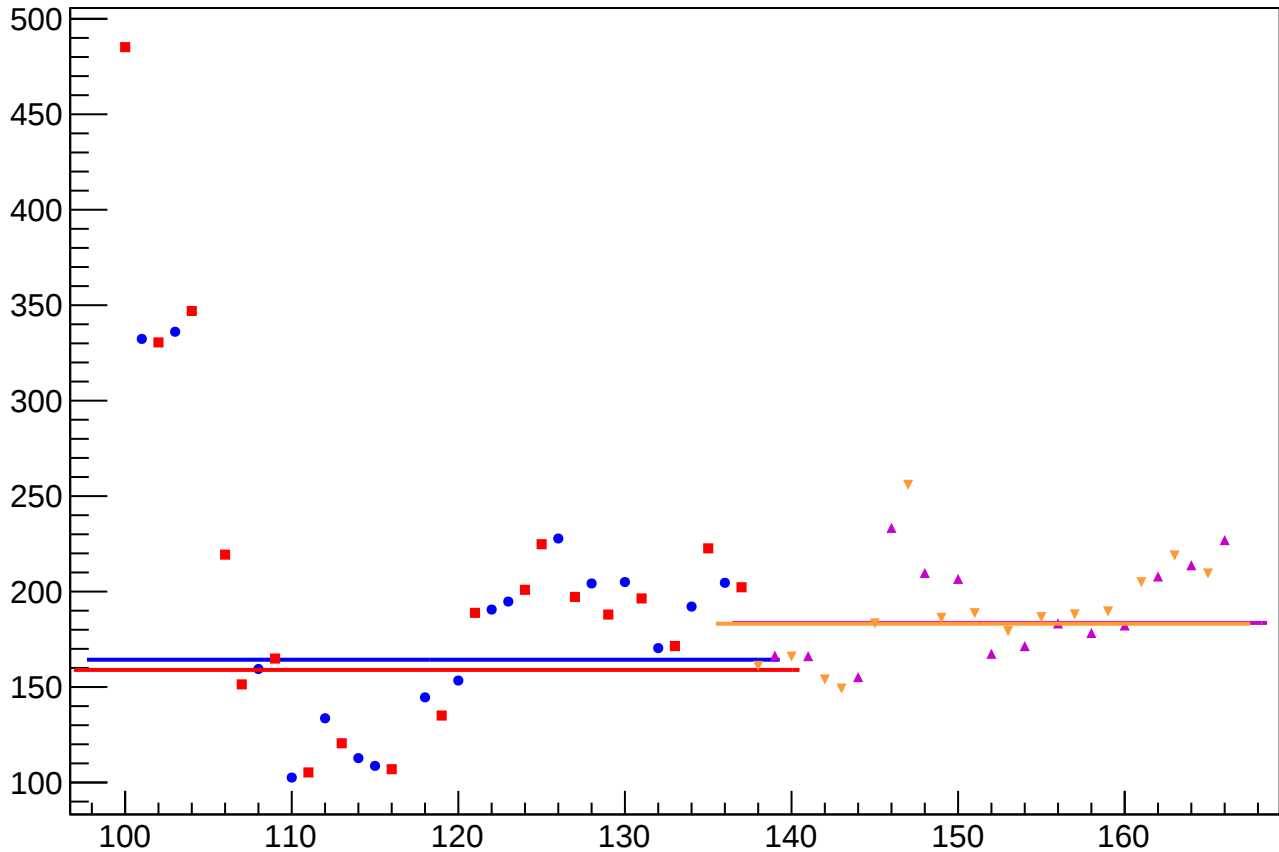
All: 490.503+/-0.064 χ^2/NDF : 4486755.2/64

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127136.300 $\pm$ 0.040	χ^2 /NDF: 308472648.7/28
Left Out: 127140.632 $\pm$ 0.056	χ^2 /NDF: 154598717.4/14	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/3
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130502.967 $\pm$ 0.044	χ^2 /NDF: 13398569433.7/3
Left In: 127131.863 $\pm$ 0.057	χ^2 /NDF: 153861823.4/13	Out: 130743.445 $\pm$ 0.042	χ^2 /NDF: 14490474390.1/3
		All: 130626.987 $\pm$ 0.030	χ^2 /NDF: 279047248.7/18

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311 $\pm$ 0.048 χ^2 /NDF: 1230487.8/16

Left Out: 183.173 $\pm$ 0.040 χ^2 /NDF:347130.3/14

Right Out: 158.977 $\pm$ 0.046 χ^2 /NDF: 1384059.2/18

Left In: 183.582 $\pm$ 0.040 χ^2 /NDF:314633.8/13

Left: 183.375 $\pm$ 0.028 χ^2 /NDF: 661816.6/28

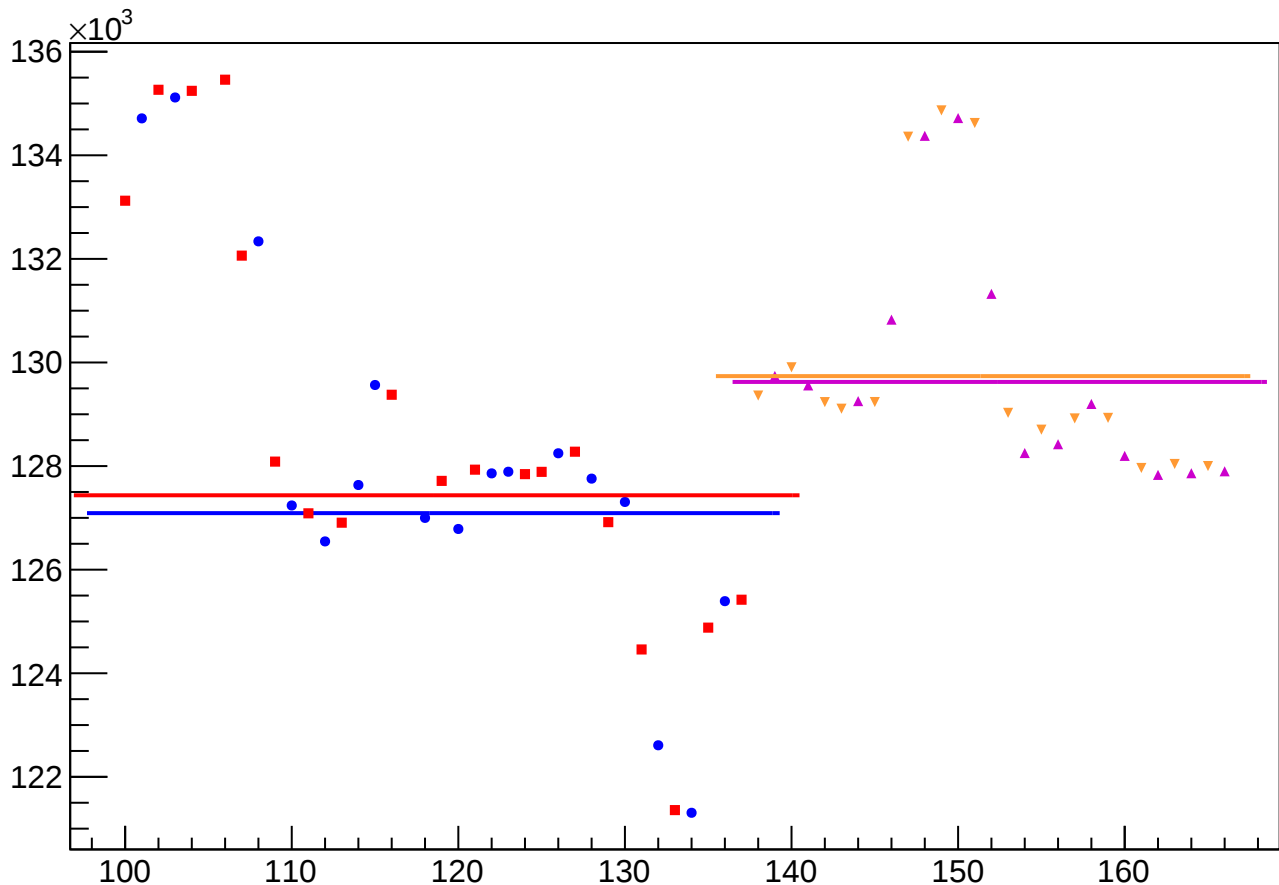
Right: 161.489 $\pm$ 0.033 χ^2 /NDF: 2621008.2/35

In: 175.716 $\pm$ 0.031 χ^2 /NDF:1639449.9/30

Out: 172.751 $\pm$ 0.030 χ^2 /NDF:1891945.0/33

All: 174.187 $\pm$ 0.021 χ^2 /NDF: 3536163.8/64

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500 $\pm$ 0.066

χ^2/NDF : 1717208780.6/16

Left: 129681.092 $\pm$ 0.040

χ^2/NDF : 2354871002.0/2

Right: 127276.609 $\pm$ 0.045

χ^2/NDF : 3810794624.3/3

Left Out: 129736.701 $\pm$ 0.057

χ^2/NDF : 1283187468.5/14

In: 128547.526 $\pm$ 0.043

χ^2/NDF : 3625873486.9/30

Right Out: 127436.101 $\pm$ 0.062

χ^2/NDF : 2079075713.9/18

Out: 128684.203 $\pm$ 0.042

χ^2/NDF : 4120332429.3/3

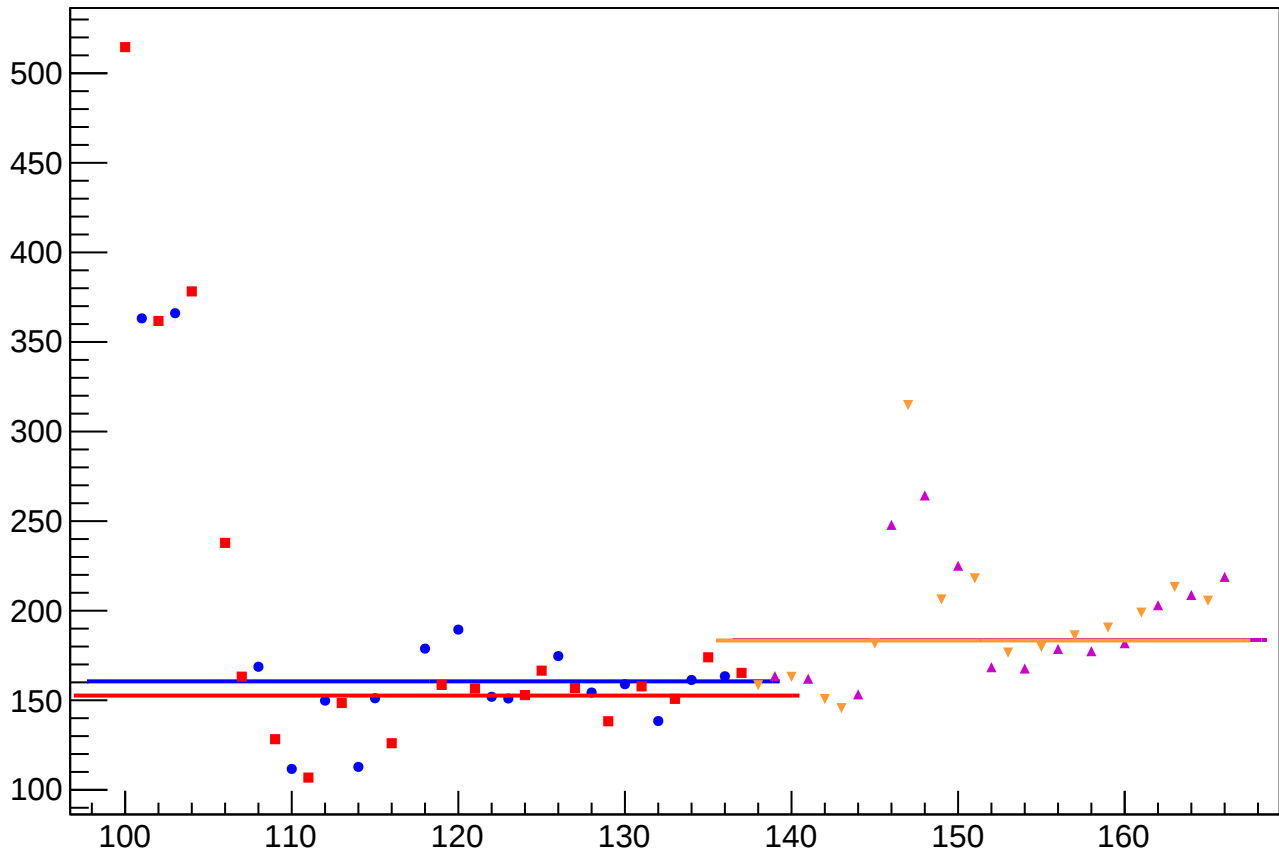
Left In: 129624.482 $\pm$ 0.057

χ^2/NDF : 1069729839.5/13

All: 128618.450 $\pm$ 0.030

χ^2/NDF : 775139212.0/100

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: 183.662 $\pm$ 0.040 χ^2 /NDF: 514687.1/13

Left: 183.522 $\pm$ 0.028 χ^2 /NDF: 1084838.7/28

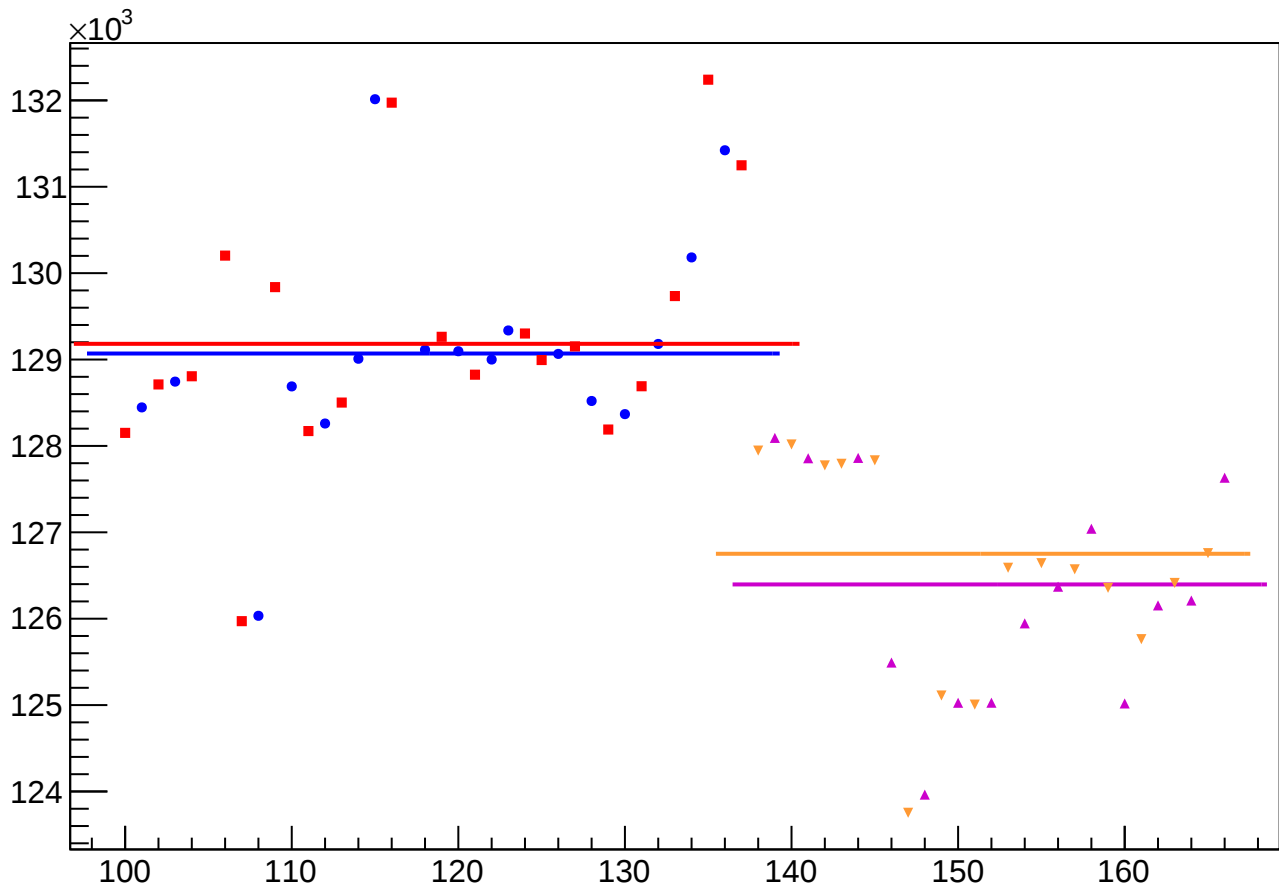
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 173.841 $\pm$ 0.031 χ^2 /NDF: 1596957.6/30

Out: 169.314 $\pm$ 0.029 χ^2 /NDF: 1927591.9/33

All: 171.492 $\pm$ 0.021 χ^2 /NDF: 3535931.2/64

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668+/-0.060

χ^2/NDF : 476692316.5/16

Left Out: 126751.530+/-0.054

χ^2/NDF : 434242908.5/14

Right Out: 129181.887+/-0.056

χ^2/NDF : 625597399.6/18

Left In: 126396.644+/-0.055

χ^2/NDF : 525584296.6/13

Left: 126576.419+/-0.039

χ^2/NDF : 980881064.7/28

Right: 129129.710+/-0.041

χ^2/NDF : 1104150743.5/30

In: 127614.568+/-0.041

χ^2/NDF : 2076599761.1/30

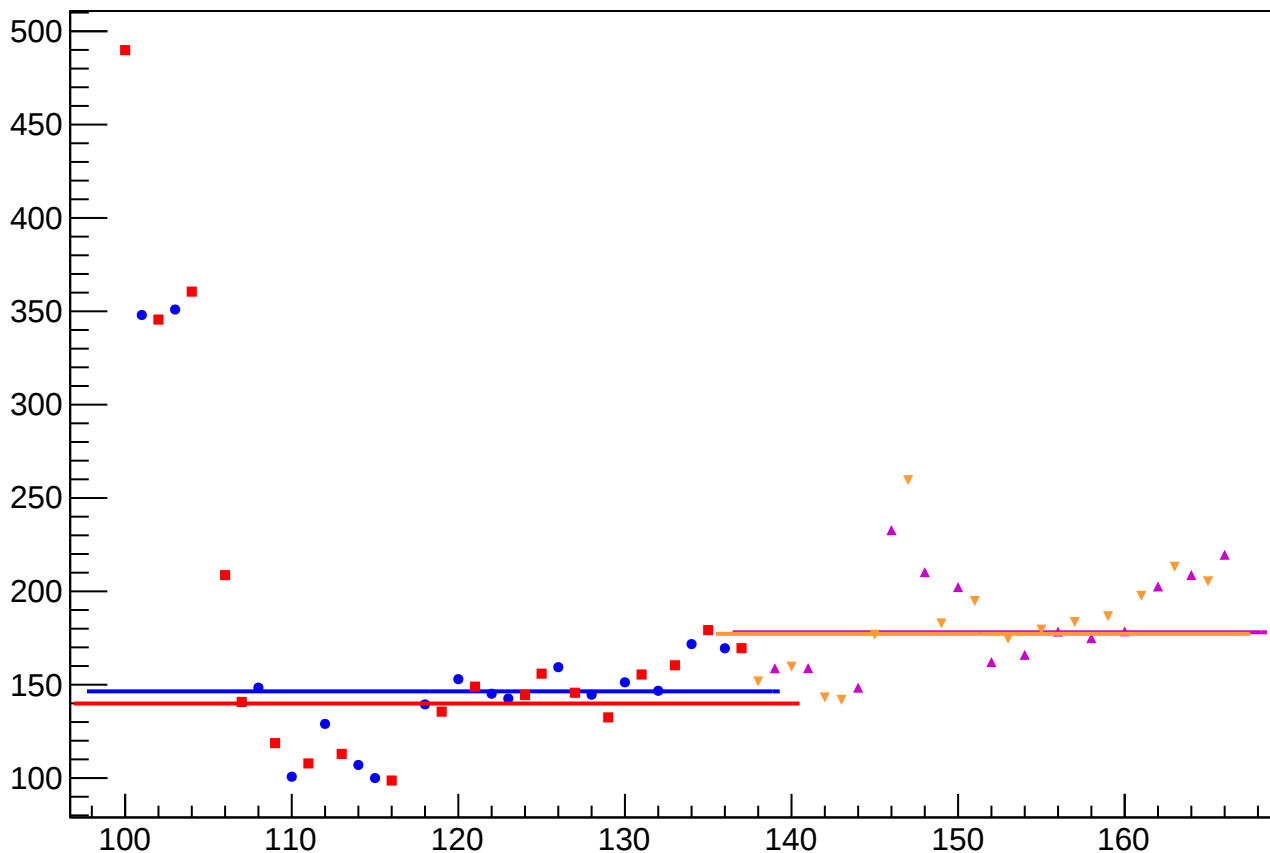
Out: 127927.936+/-0.039

χ^2/NDF : 2028469520.3/30

All: 127777.508+/-0.028

χ^2/NDF : 413602235.0/62

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: 178.076 $\pm$ 0.039 χ^2 /NDF:370764.8/13

Left: 177.656 $\pm$ 0.027 χ^2 /NDF: 815184.8/28

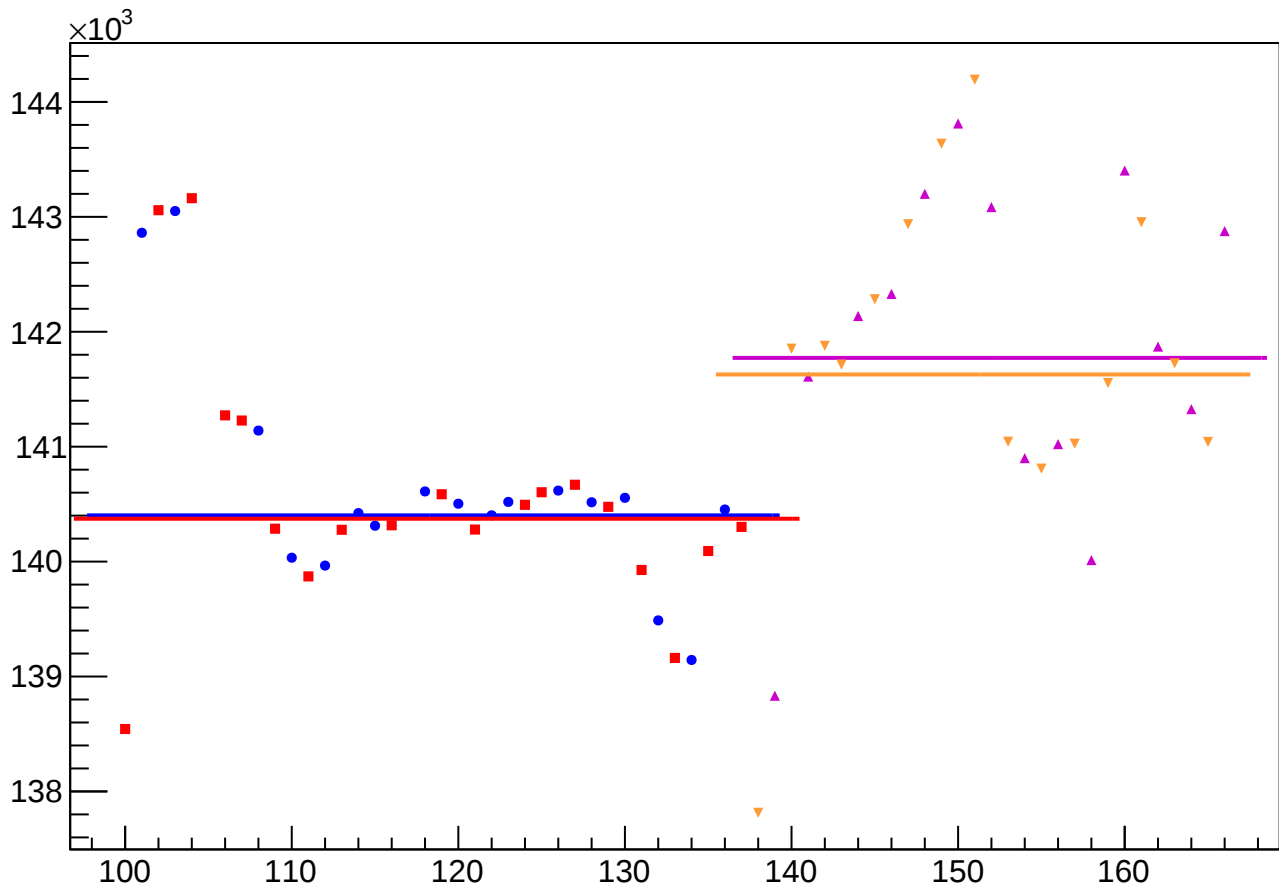
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 163.660 $\pm$ 0.029 χ^2 /NDF:1736580.6/30

Out: 159.183 $\pm$ 0.028 χ^2 /NDF:2104488.6/33

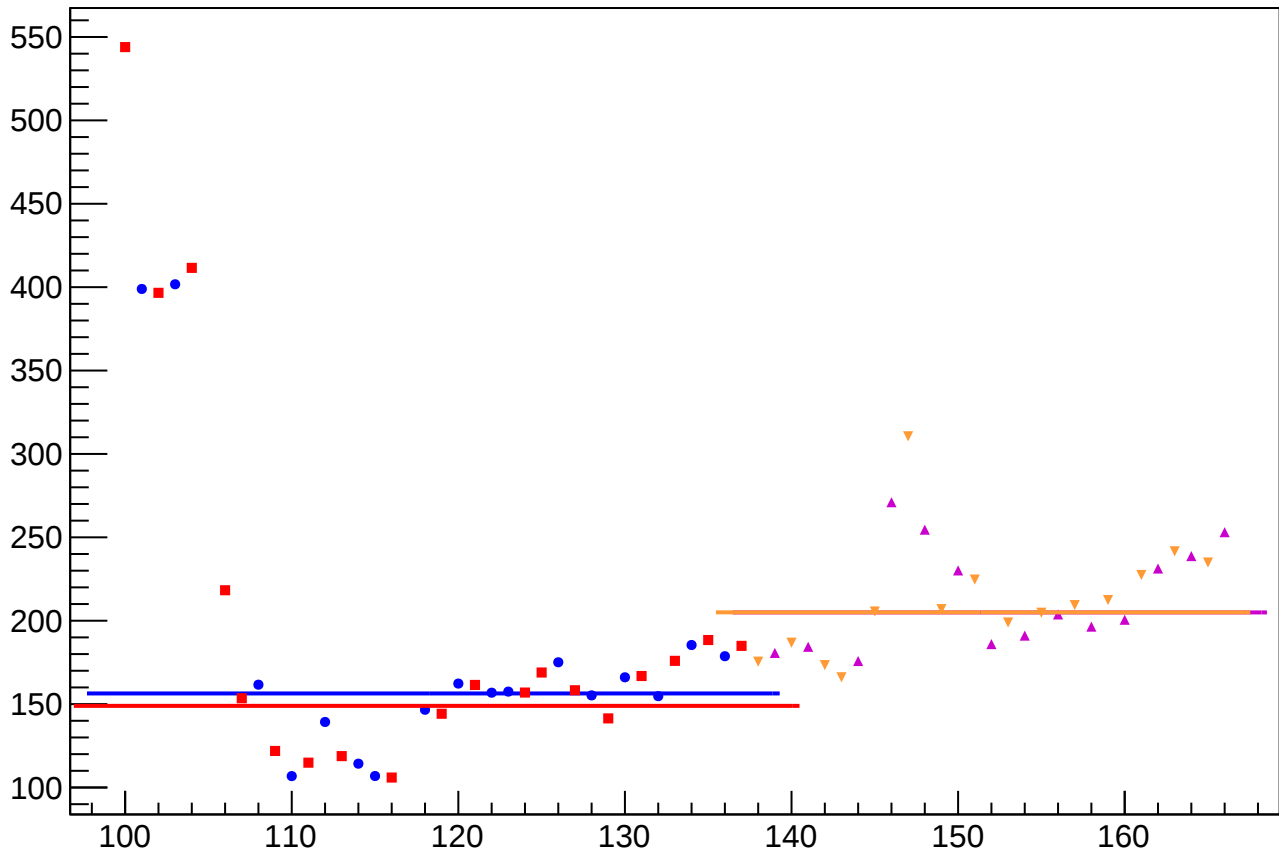
All: 161.332 $\pm$ 0.020 χ^2 /NDF: 3853708.8/64

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064	χ^2 /NDF: 88071774.7/16	Left: 141700.084 $\pm$ 0.045	χ^2 /NDF: 1065337634.6/2
Left Out: 141628.574 $\pm$ 0.063	χ^2 /NDF: 587607930.5/14	Right: 140386.544 $\pm$ 0.044	χ^2 /NDF: 188034057.1/3
Right Out: 140373.163 $\pm$ 0.060	χ^2 /NDF: 99854533.3/18	In: 141097.056 $\pm$ 0.045	χ^2 /NDF: 793293073.4/30
Left In: 141772.770 $\pm$ 0.063	χ^2 /NDF: 475126018.6/13	Out: 140969.398 $\pm$ 0.043	χ^2 /NDF: 896421942.2/33
		All: 141030.619 $\pm$ 0.031	χ^2 /NDF: 169387019

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: 204.972 $\pm$ 0.045 χ^2 /NDF: 375322.3/13

Left: 205.002 $\pm$ 0.032 χ^2 /NDF: 791227.7/28

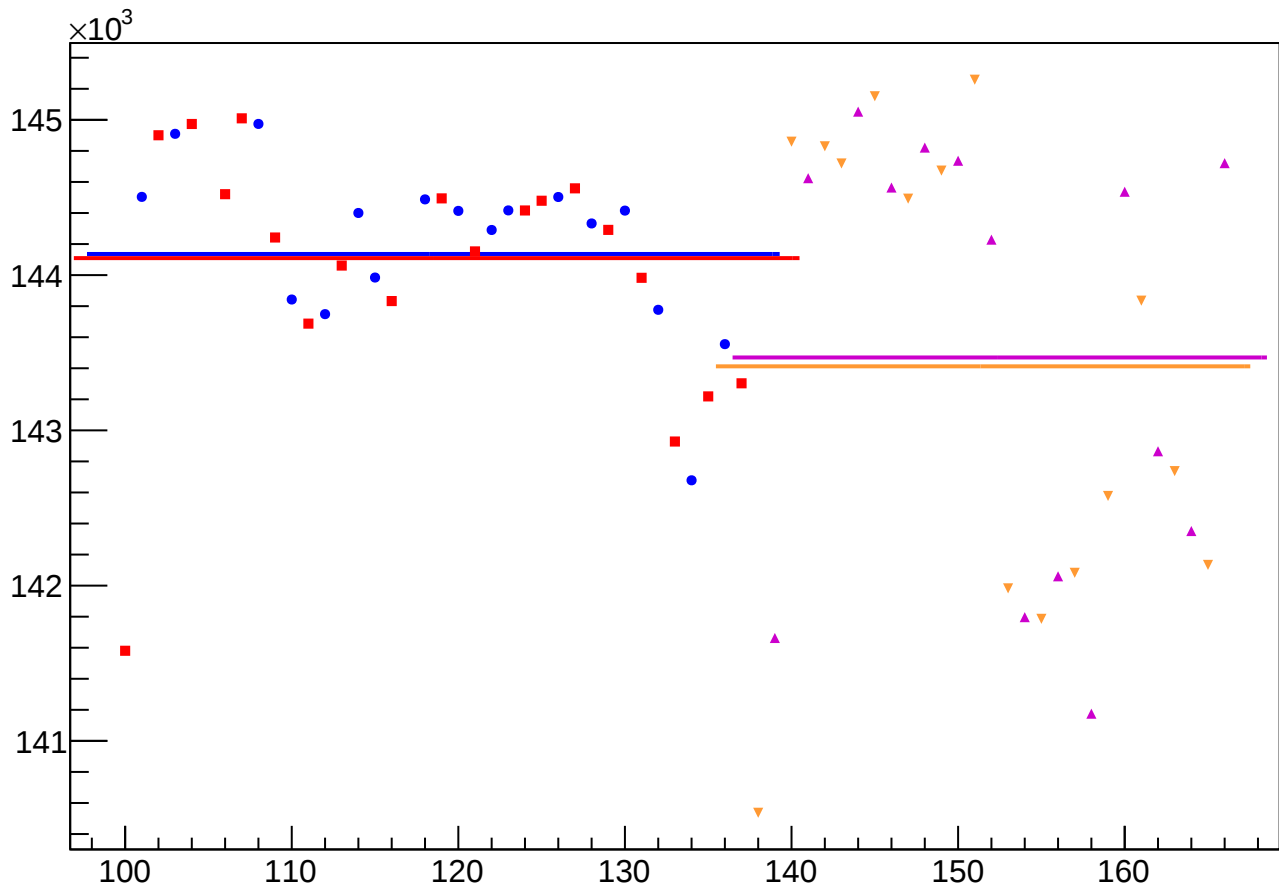
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 181.025 $\pm$ 0.032 χ^2 /NDF: 2108095.7/30

Out: 175.584 $\pm$ 0.031 χ^2 /NDF: 2557533.2/33

All: 178.194 $\pm$ 0.022 χ^2 /NDF: 4680727.9/64

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left Out: 143412.409 $\pm$ 0.062

χ^2 /NDF: 610294724.6/14

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

Left In: 143469.517 $\pm$ 0.063

χ^2 /NDF: 512416008.7/13

Left: 143440.589 $\pm$ 0.044

χ^2 /NDF: 1123124330.7/2

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

In: 143784.530 $\pm$ 0.046

χ^2 /NDF: 612056436.3/30

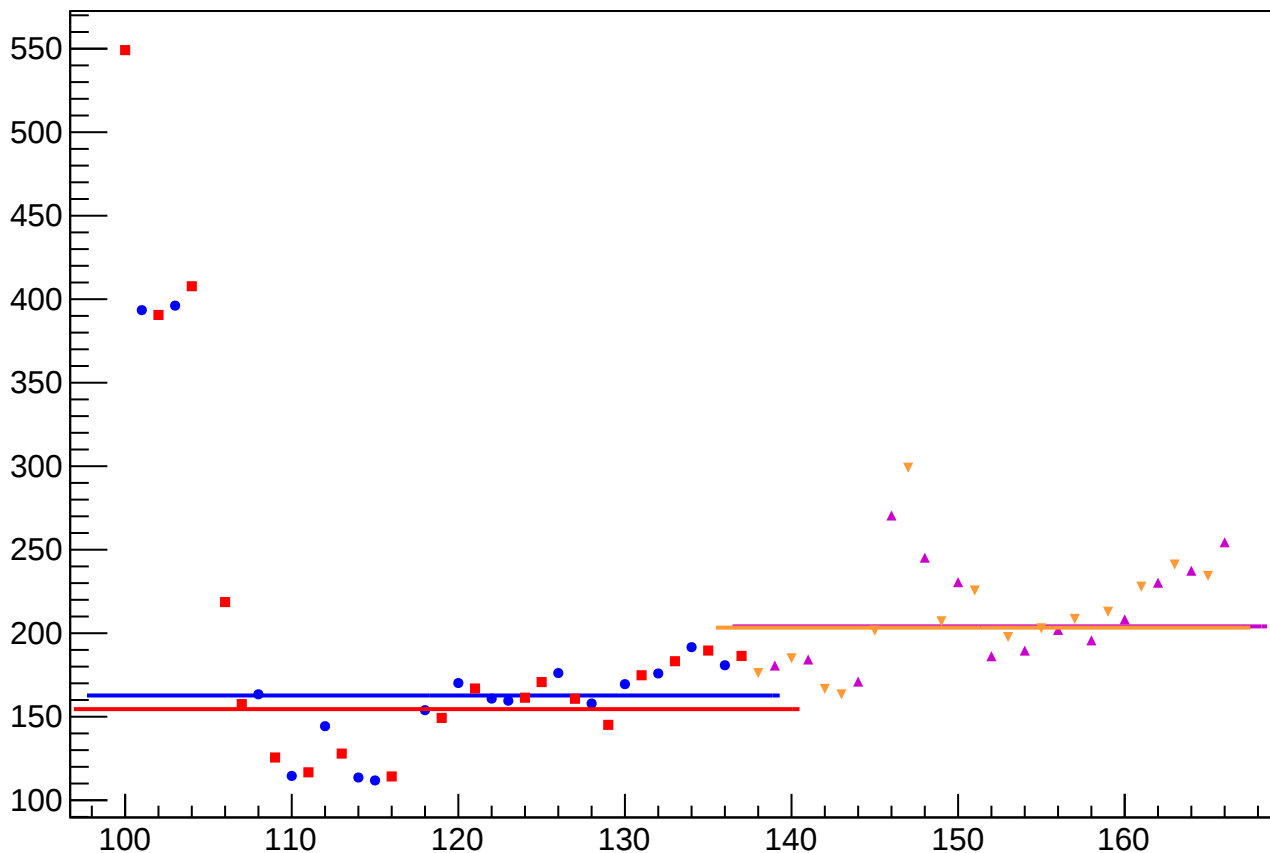
Out: 143763.768 $\pm$ 0.044

χ^2 /NDF: 738495471.8/33

All: 143773.693 $\pm$ 0.032

χ^2 /NDF: 135065869.1/100

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: 204.086 $\pm$ 0.045 χ^2 /NDF:378319.8/13

Left: 203.713 $\pm$ 0.031 χ^2 /NDF: 799727.6/28

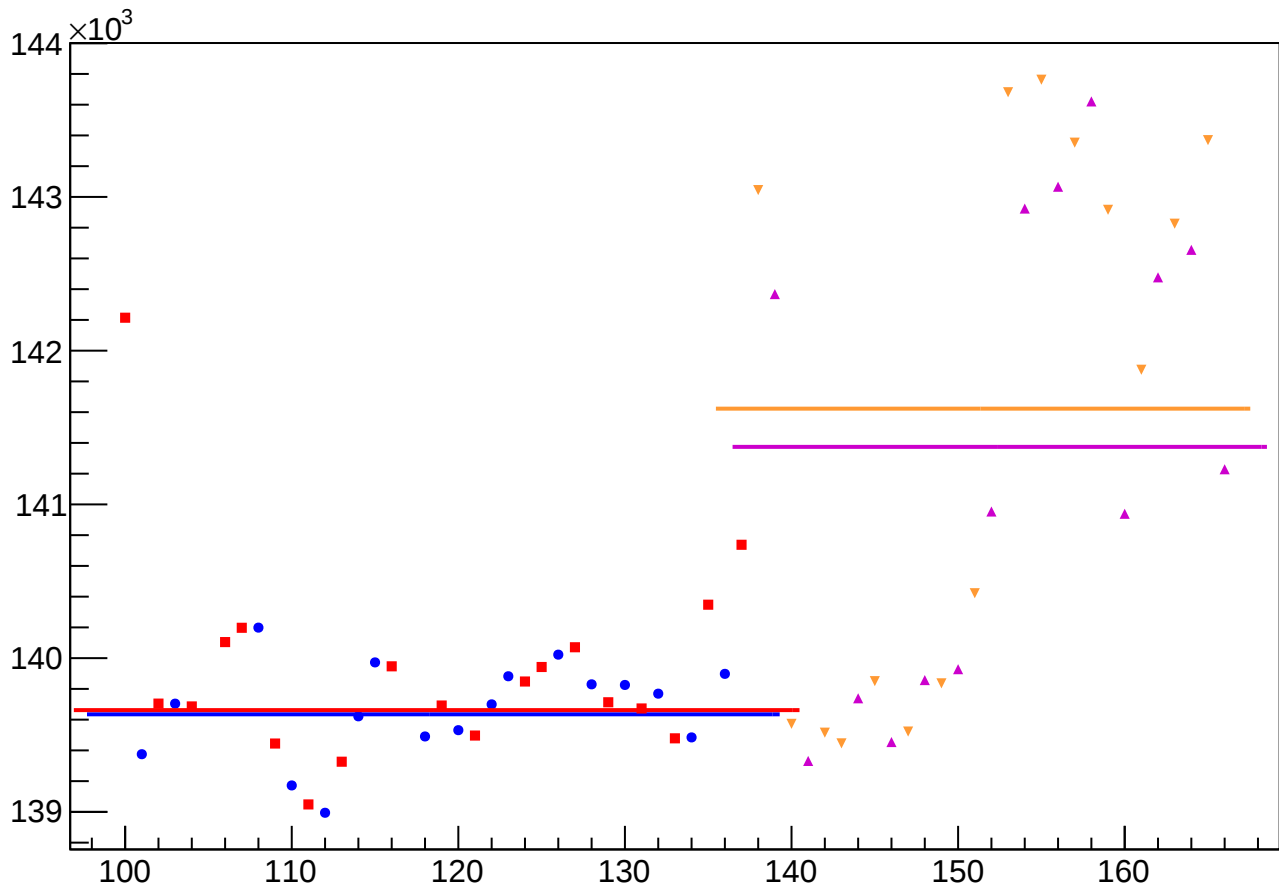
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 184.535 $\pm$ 0.032 χ^2 /NDF:1849804.0/30

Out: 178.749 $\pm$ 0.031 χ^2 /NDF:2255918.3/33

All: 181.515 $\pm$ 0.022 χ^2 /NDF: 4122313.0/64

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: 141374.285+/-0.066

χ^2/NDF : 509422241.8/13

Left: 141498.592+/-0.046

χ^2/NDF : 1216715607.1/2

Right: 139649.322+/-0.046

χ^2/NDF : 63304699.0/35

In: 140534.189+/-0.047

χ^2/NDF : 874900026.0/30

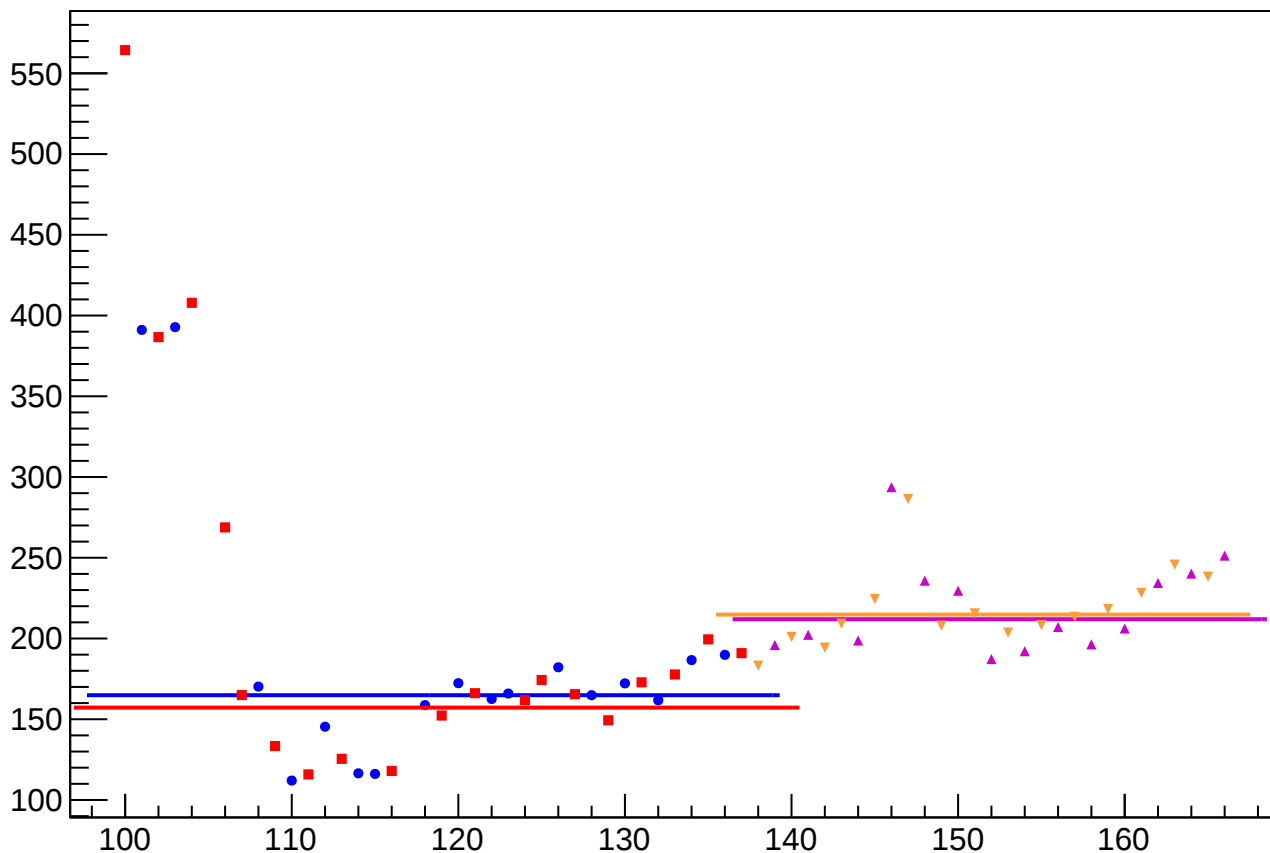
Out: 140605.009+/-0.045

χ^2/NDF : 1203835228.7/3

All: 140570.888+/-0.033

χ^2/NDF : 207990680

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884+/-0.048 χ^2/NDF : 1066270.8/16

Left Out: 214.823+/-0.046 χ^2/NDF :208127.1/14

Right Out: 157.207+/-0.045 χ^2/NDF : 1245030.9/18

Left In: 211.957+/-0.046 χ^2/NDF :281122.0/13

Left: 213.390+/-0.033 χ^2/NDF : 491163.2/28

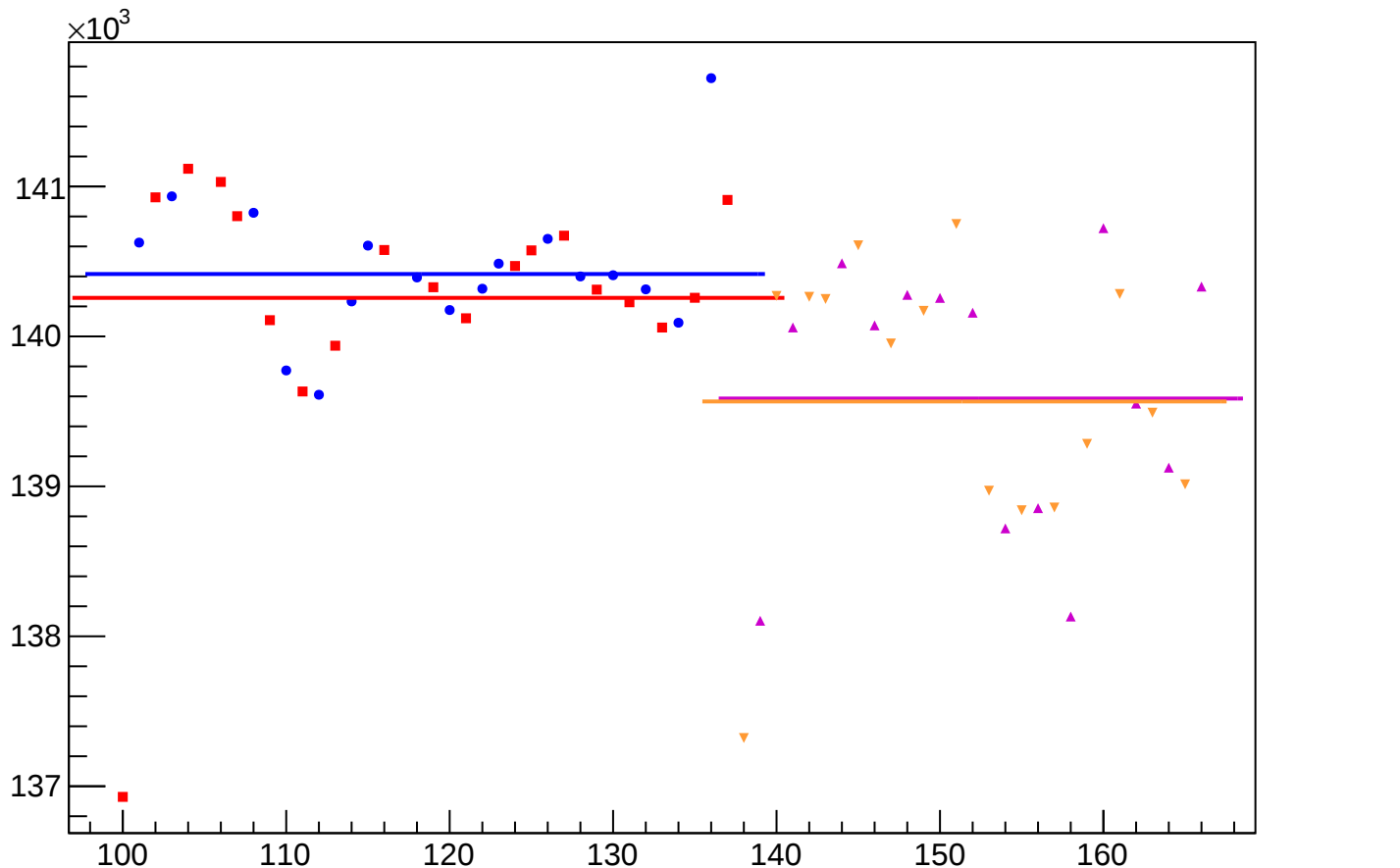
Right: 160.768+/-0.033 χ^2/NDF : 2325060.5/35

In: 189.224+/-0.033 χ^2/NDF :1846241.6/30

Out: 184.916+/-0.032 χ^2/NDF :2256689.0/33

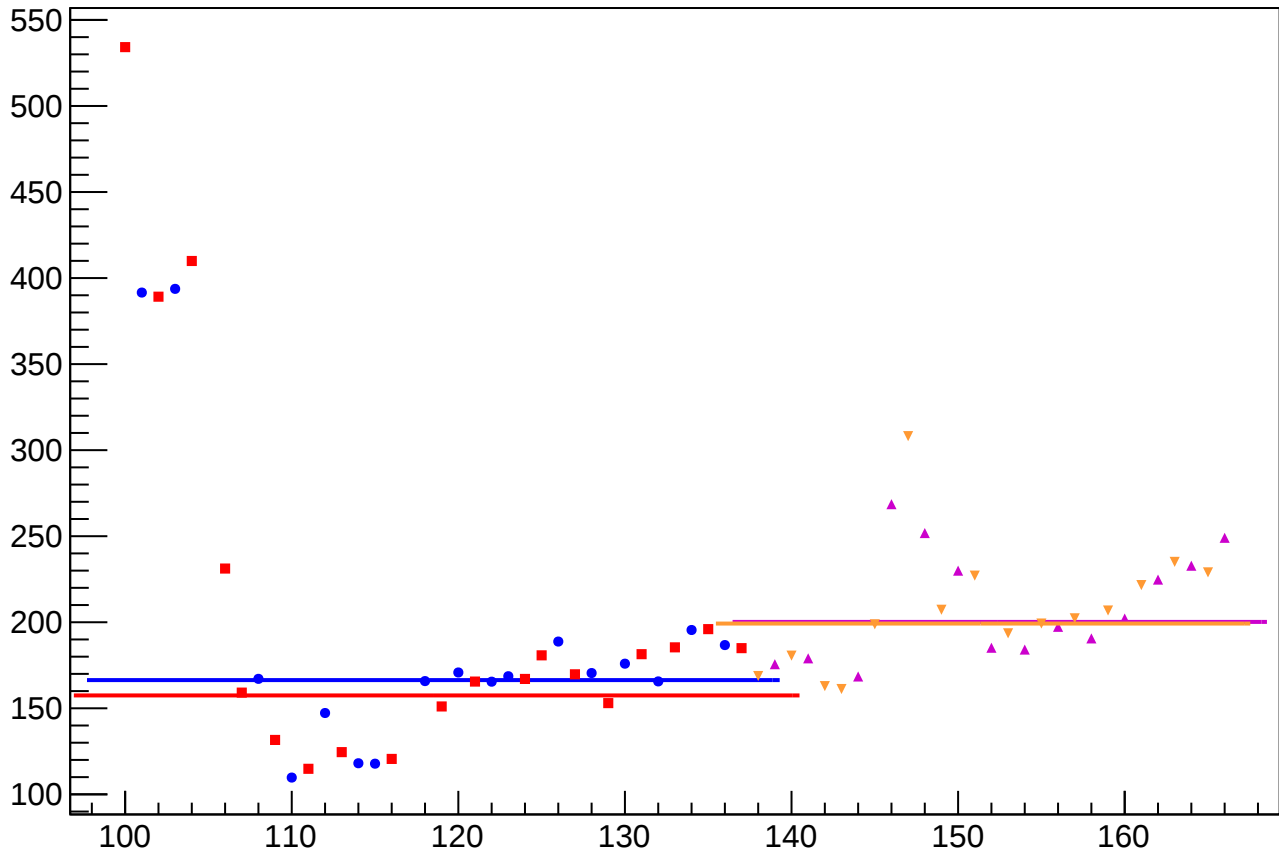
All: 186.992+/-0.023 χ^2/NDF : 4111602.8/64

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068	χ^2/NDF : 69975821.3/16	Left: 139575.735 $\pm$ 0.044	χ^2/NDF : 455555449.3/28
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: 139960.143 $\pm$ 0.046	χ^2/NDF : 360613934.5/30
Left In: 139585.600 $\pm$ 0.062	χ^2/NDF : 209695993.7/13	Out: 139900.326 $\pm$ 0.044	χ^2/NDF : 345672550.3/33
		All: 139928.894 $\pm$ 0.032	χ^2/NDF : 707172518

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2 /NDF: 1080964.8/16

Left Out: 199.237 $\pm$ 0.043 χ^2 /NDF: 469725.5/14

Right Out: 157.475 $\pm$ 0.045 χ^2 /NDF: 1229886.8/18

Left In: 200.197 $\pm$ 0.044 χ^2 /NDF: 415770.1/13

Left: 199.710 $\pm$ 0.031 χ^2 /NDF: 885738.9/28

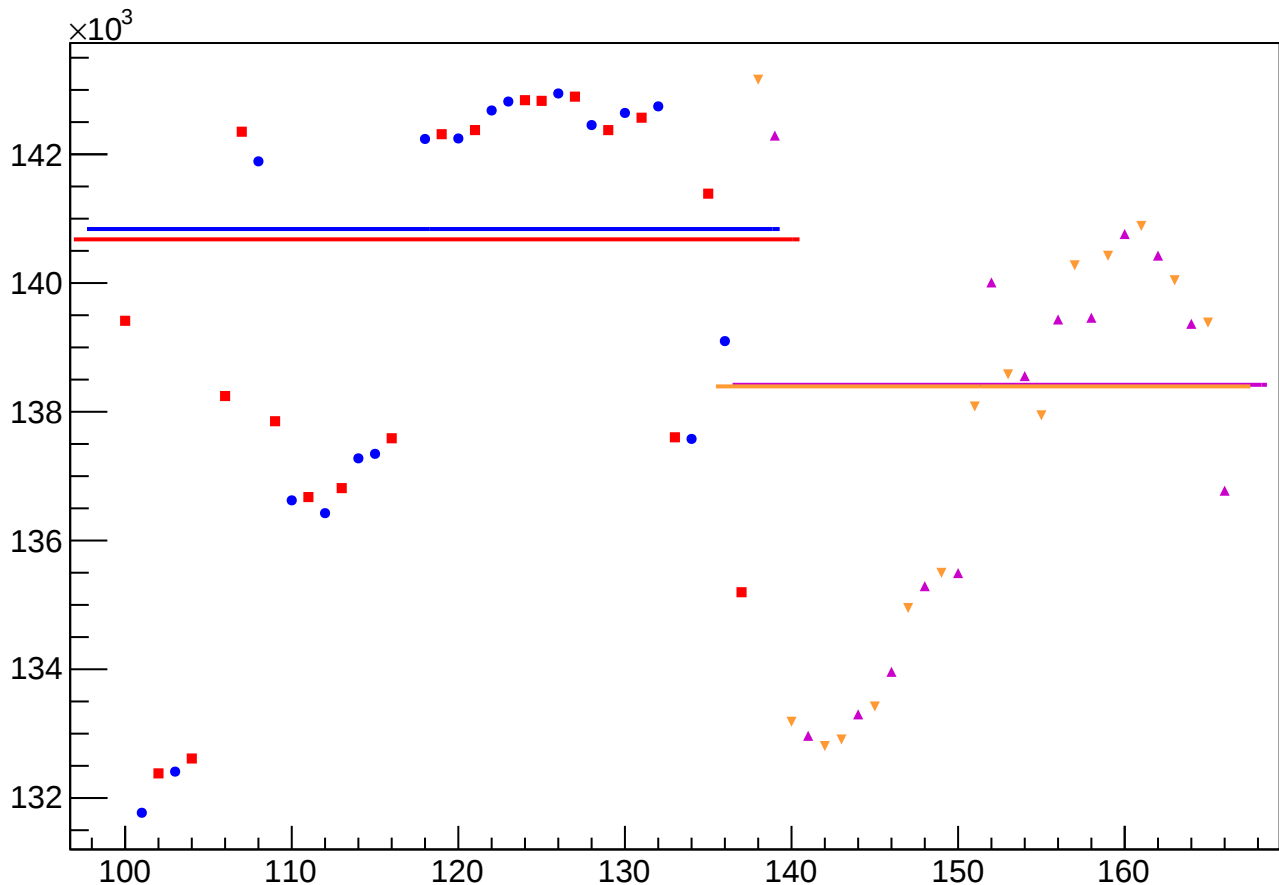
Right: 161.576 $\pm$ 0.033 χ^2 /NDF: 2329186.5/35

In: 184.949 $\pm$ 0.032 χ^2 /NDF: 1765044.4/30

Out: 179.036 $\pm$ 0.031 χ^2 /NDF: 2151270.5/33

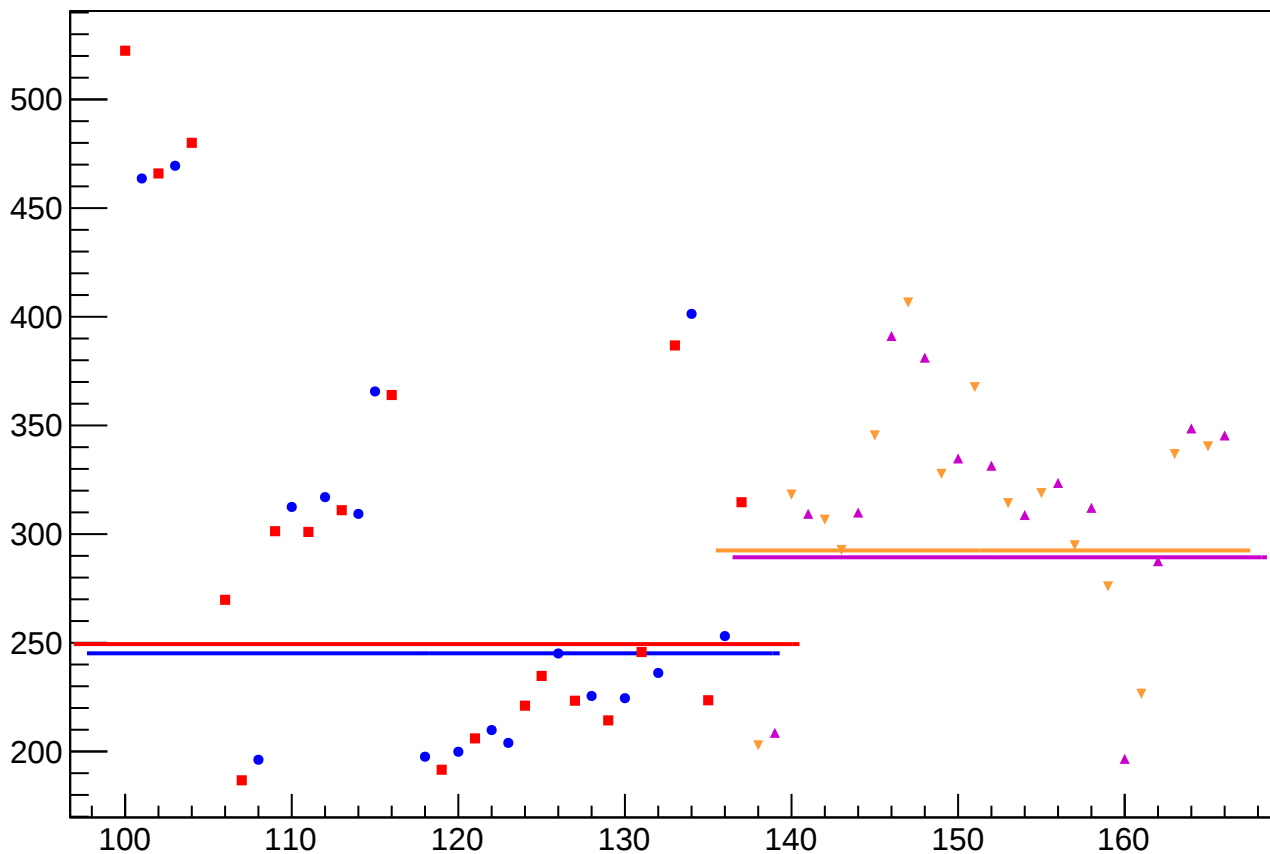
All: 181.860 $\pm$ 0.022 χ^2 /NDF: 3933632.2/64

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2 /NDF: 822682996.3/16	Left: 138406.877 $\pm$ 0.064	χ^2 /NDF: 2508372847.1/2
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: 139518.703 $\pm$ 0.067	χ^2 /NDF: 2255472137.5/30
Left In: 138419.352 $\pm$ 0.091	χ^2 /NDF: 1113348884.2/13	Out: 139438.122 $\pm$ 0.067	χ^2 /NDF: 2524155214.9/3
		All: 139478.159 $\pm$ 0.048	χ^2 /NDF: 478034630

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: 289.335 $\pm$ 0.065 χ^2 /NDF: 902111.9/13

Left: 290.920 $\pm$ 0.046 χ^2 /NDF: 1634492.8/28

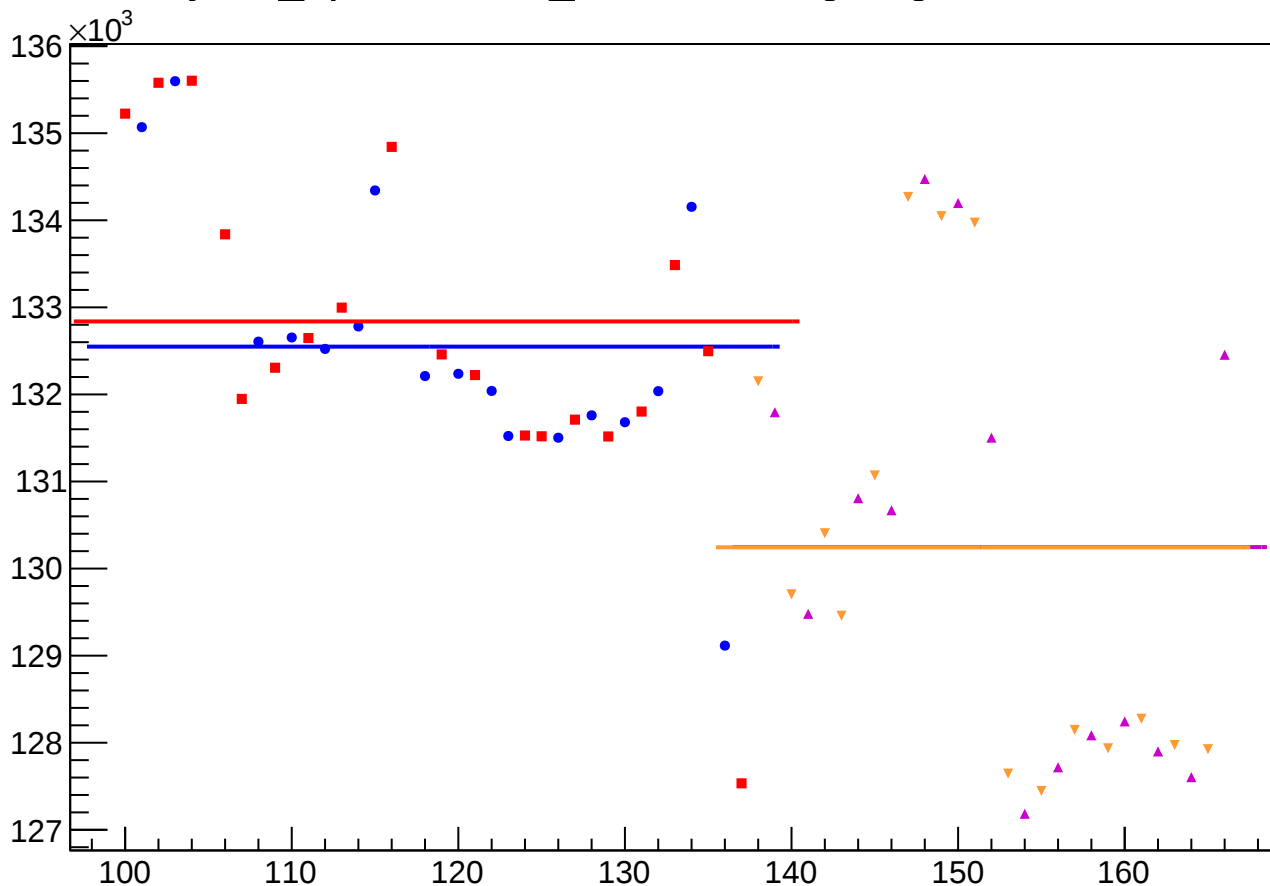
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 269.265 $\pm$ 0.048 χ^2 /NDF: 1984539.5/30

Out: 272.801 $\pm$ 0.047 χ^2 /NDF: 1946304.7/33

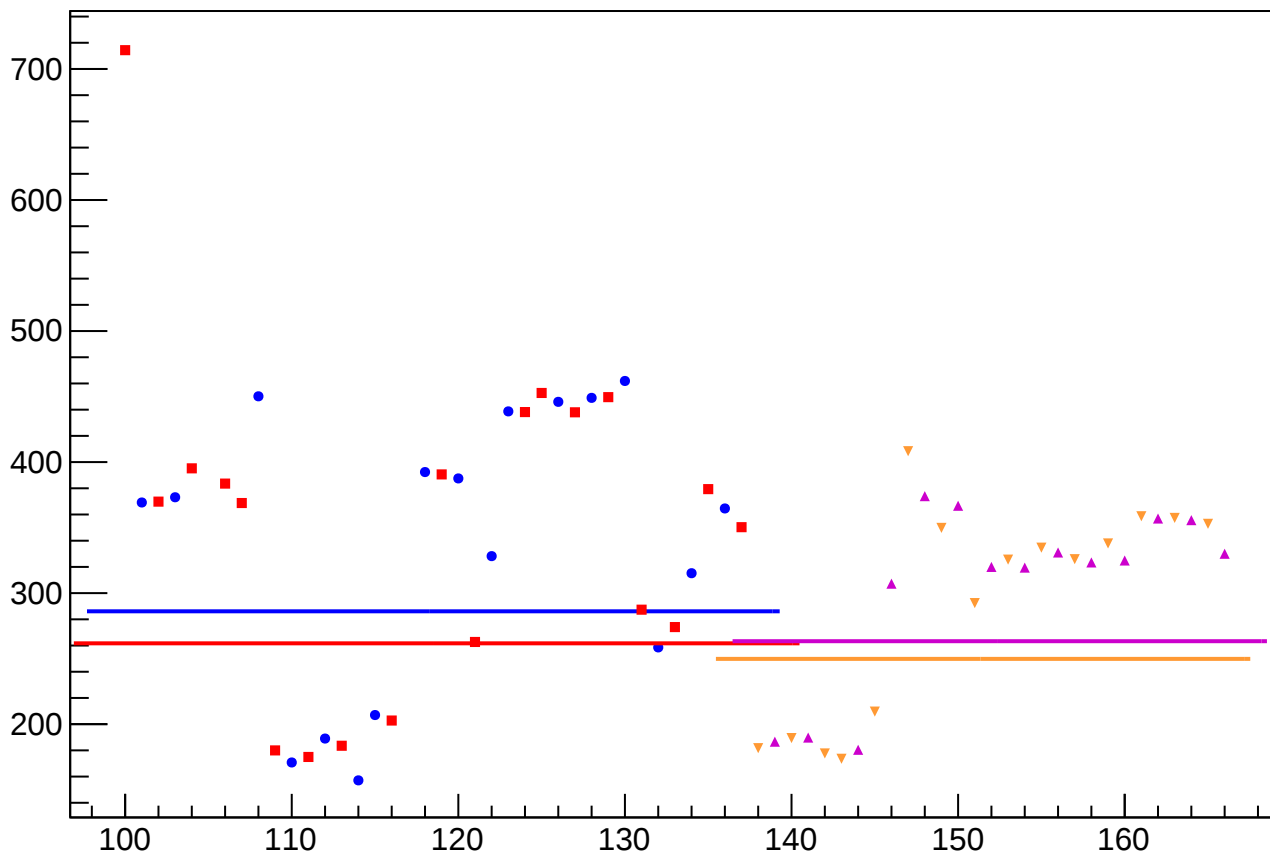
All: 271.044 $\pm$ 0.034 χ^2 /NDF: 3933612.0/64

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119	χ^2 /NDF: 161115079.9/16	Left: 130245.656 $\pm$ 0.058	χ^2 /NDF: 1212944404.8/2
Left Out: 130244.591 $\pm$ 0.080	χ^2 /NDF: 653285627.4/14	Right: 132709.226 $\pm$ 0.080	χ^2 /NDF: 313982981.1/3
Right Out: 132838.294 $\pm$ 0.107	χ^2 /NDF: 149611447.6/18	In: 131012.301 $\pm$ 0.069	χ^2 /NDF: 969012726.4/30
Left In: 130246.846 $\pm$ 0.084	χ^2 /NDF: 559658399.4/13	Out: 131169.050 $\pm$ 0.064	χ^2 /NDF: 1180346560.6/3
		All: 131096.445 $\pm$ 0.047	χ^2 /NDF: 215214297

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: 263.309+/-0.060 χ^2/NDF :1632987.9/13

Left: 256.191+/-0.041 χ^2/NDF : 3593772.1/28

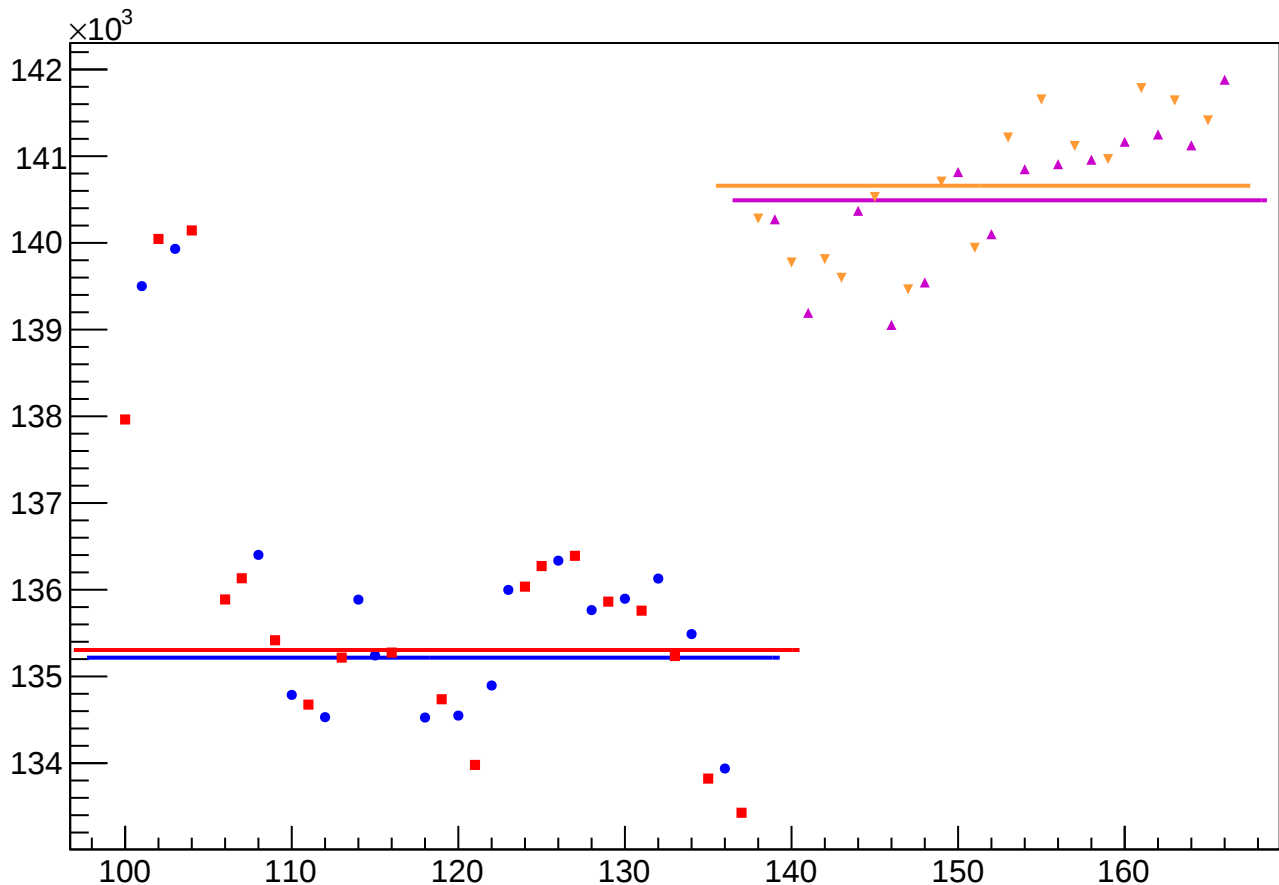
Right: 272.584+/-0.056 χ^2/NDF : 3194872.3/35

In: 270.894+/-0.049 χ^2/NDF :3207013.2/30

Out: 254.051+/-0.045 χ^2/NDF :3572708.3/33

All: 261.853+/-0.033 χ^2/NDF : 6844008.4/64

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: 140491.369 $\pm$ 0.060 χ^2 /NDF: 149738357.7/13

Left: 140578.744 $\pm$ 0.041 χ^2 /NDF: 330184131.2/28

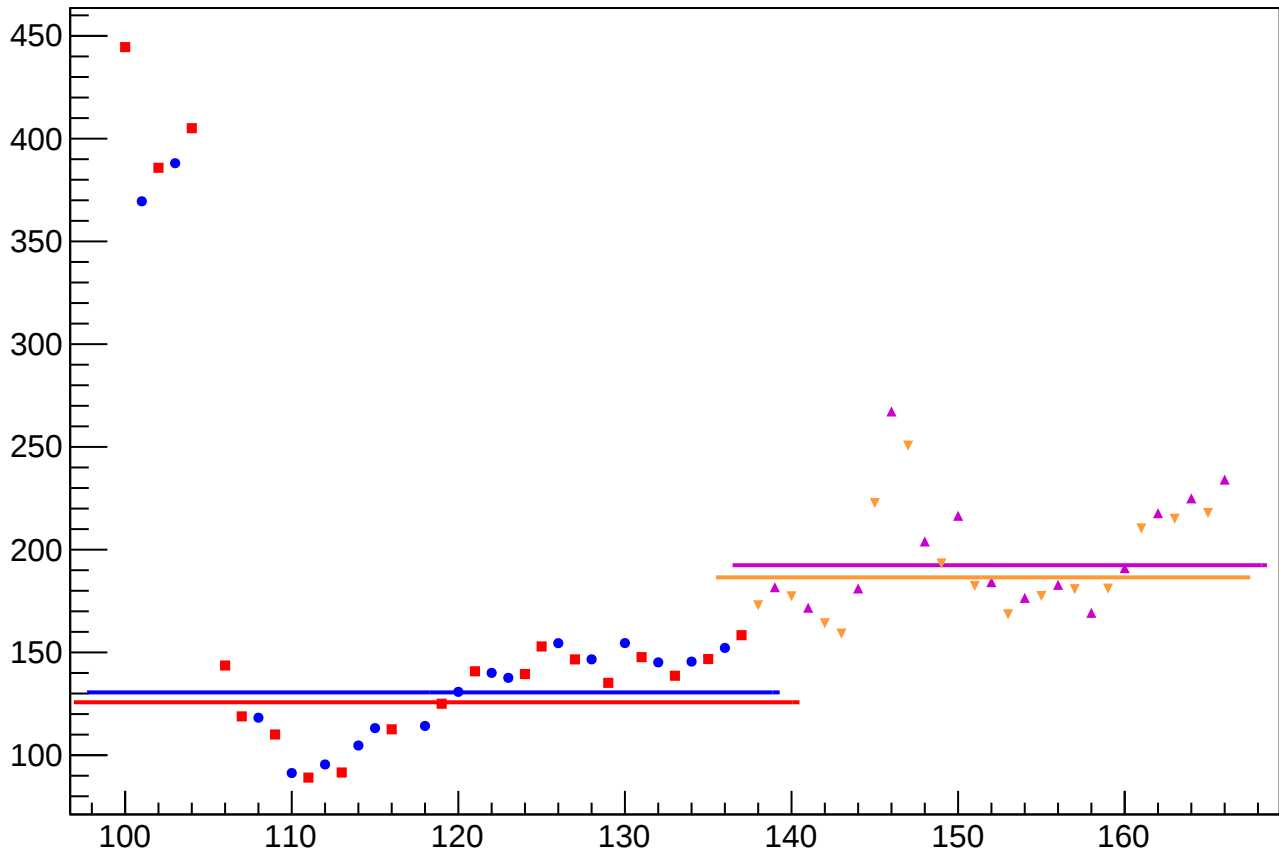
Right: 135263.557 $\pm$ 0.037 χ^2 /NDF: 730392205.8/3

In: 137614.263 $\pm$ 0.040 χ^2 /NDF: 4801631625.8/30

Out: 137687.343 $\pm$ 0.038 χ^2 /NDF: 5410504097.4/3

All: 137652.709 $\pm$ 0.028 χ^2 /NDF: 10213879

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: 192.427 $\pm$ 0.042 χ^2 /NDF: 308193.6/13

Left: 189.352 $\pm$ 0.029 χ^2 /NDF: 618635.3/28

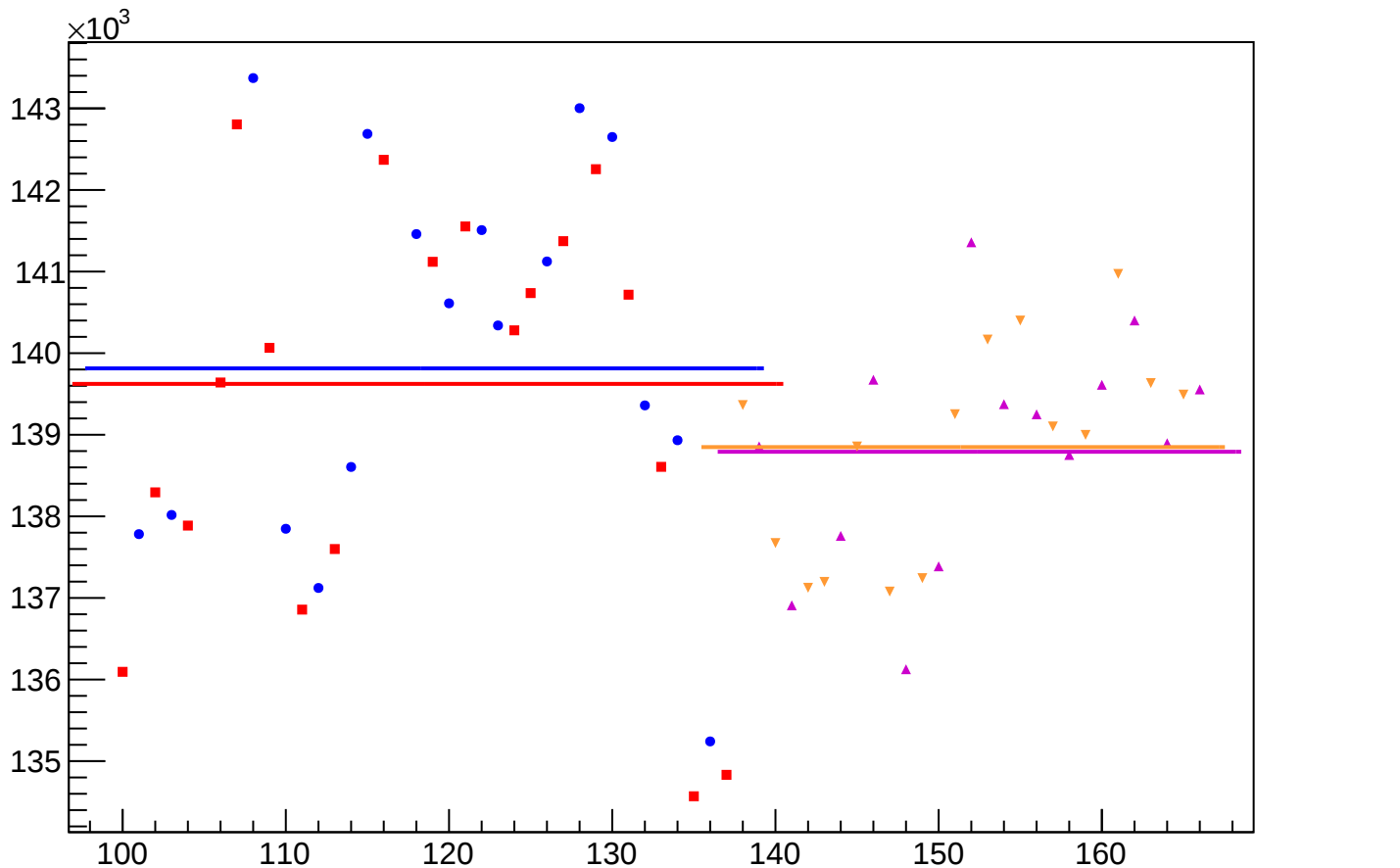
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 158.677 $\pm$ 0.028 χ^2 /NDF: 2859341.1/30

Out: 152.787 $\pm$ 0.027 χ^2 /NDF: 2996921.7/33

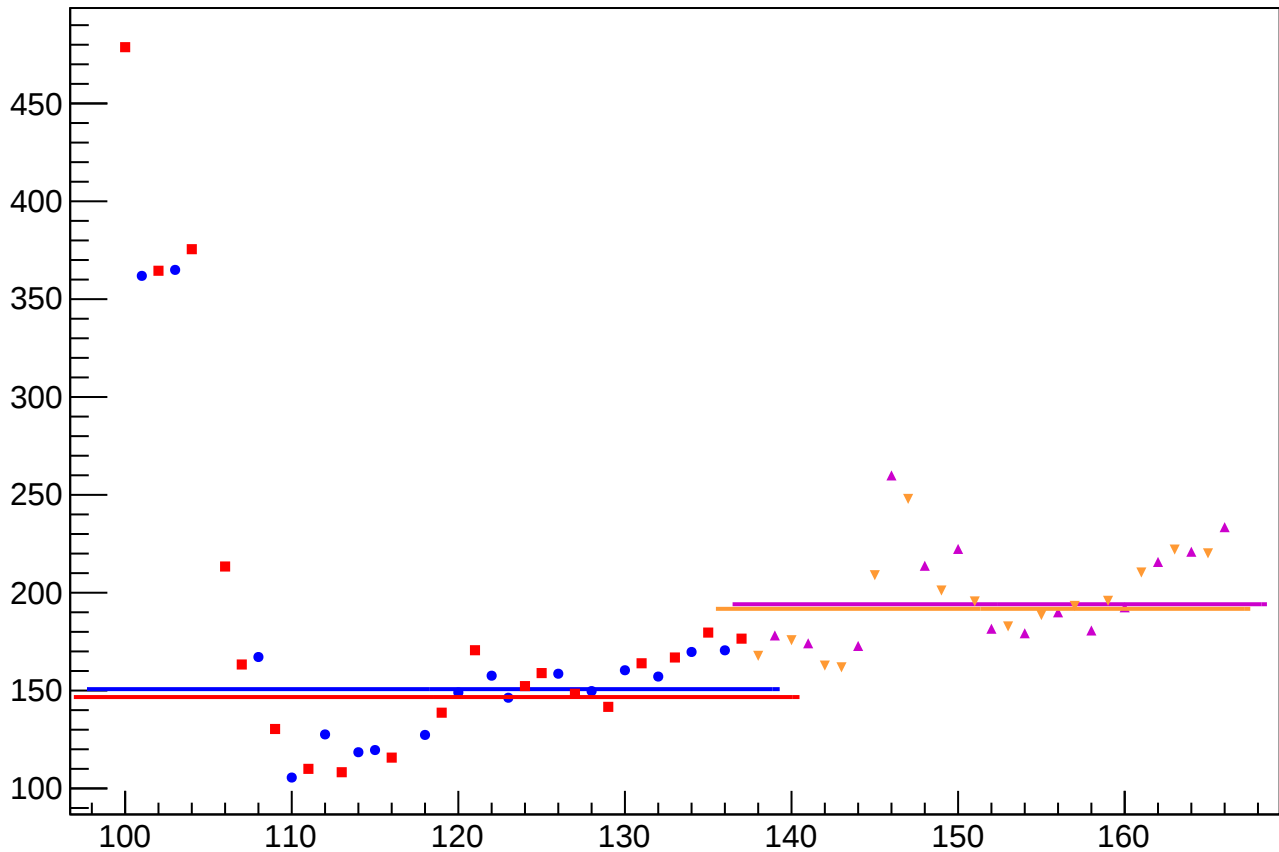
All: 155.578 $\pm$ 0.020 χ^2 /NDF: 5878917.2/64

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062	χ^2 /NDF: 1689865533.6/16	Left: 138820.903 $\pm$ 0.042	χ^2 /NDF: 958253589.1/28
Left Out: 138848.981 $\pm$ 0.059	χ^2 /NDF: 433867978.3/14	Right: 139713.961 $\pm$ 0.043	χ^2 /NDF: 3200544274.5/14
Right Out: 139623.387 $\pm$ 0.059	χ^2 /NDF: 1505731109.1/18	In: 139287.423 $\pm$ 0.043	χ^2 /NDF: 2354056490.1/30
Left In: 138791.601 $\pm$ 0.060	χ^2 /NDF: 523920220.6/13	Out: 139234.984 $\pm$ 0.042	χ^2 /NDF: 2025948903.1/30
		All: 139260.300 $\pm$ 0.030	χ^2 /NDF: 438076999.1/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 191.769 $\pm$ 0.042 χ^2 /NDF:268343.9/14

Right Out: 146.686 $\pm$ 0.042 χ^2 /NDF: 1203106.6/18

Left In: 194.113 $\pm$ 0.043 χ^2 /NDF:288501.2/13

Left: 192.916 $\pm$ 0.030 χ^2 /NDF: 558399.0/28

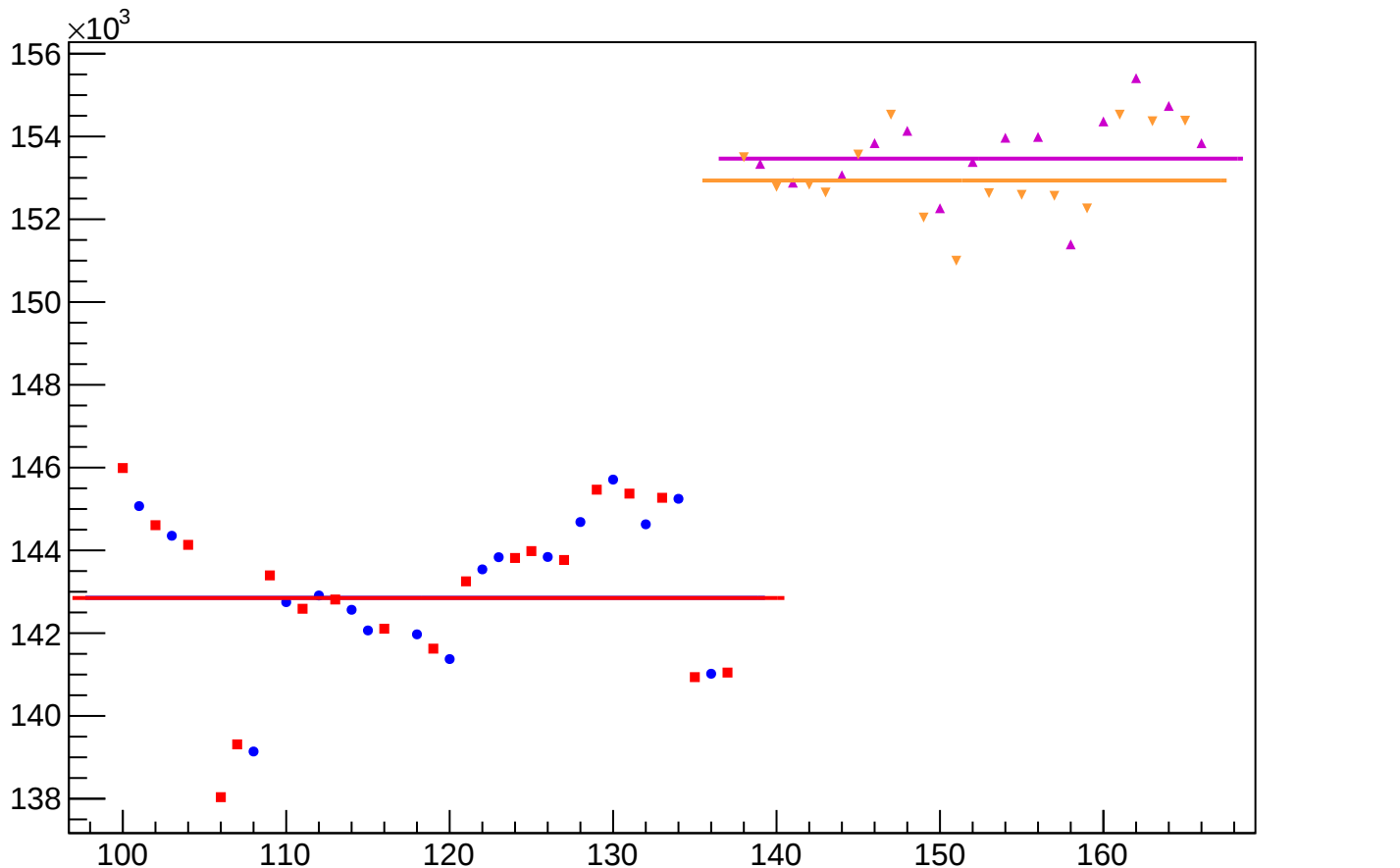
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 173.069 $\pm$ 0.030 χ^2 /NDF:1843960.7/30

Out: 169.297 $\pm$ 0.029 χ^2 /NDF:2056754.1/33

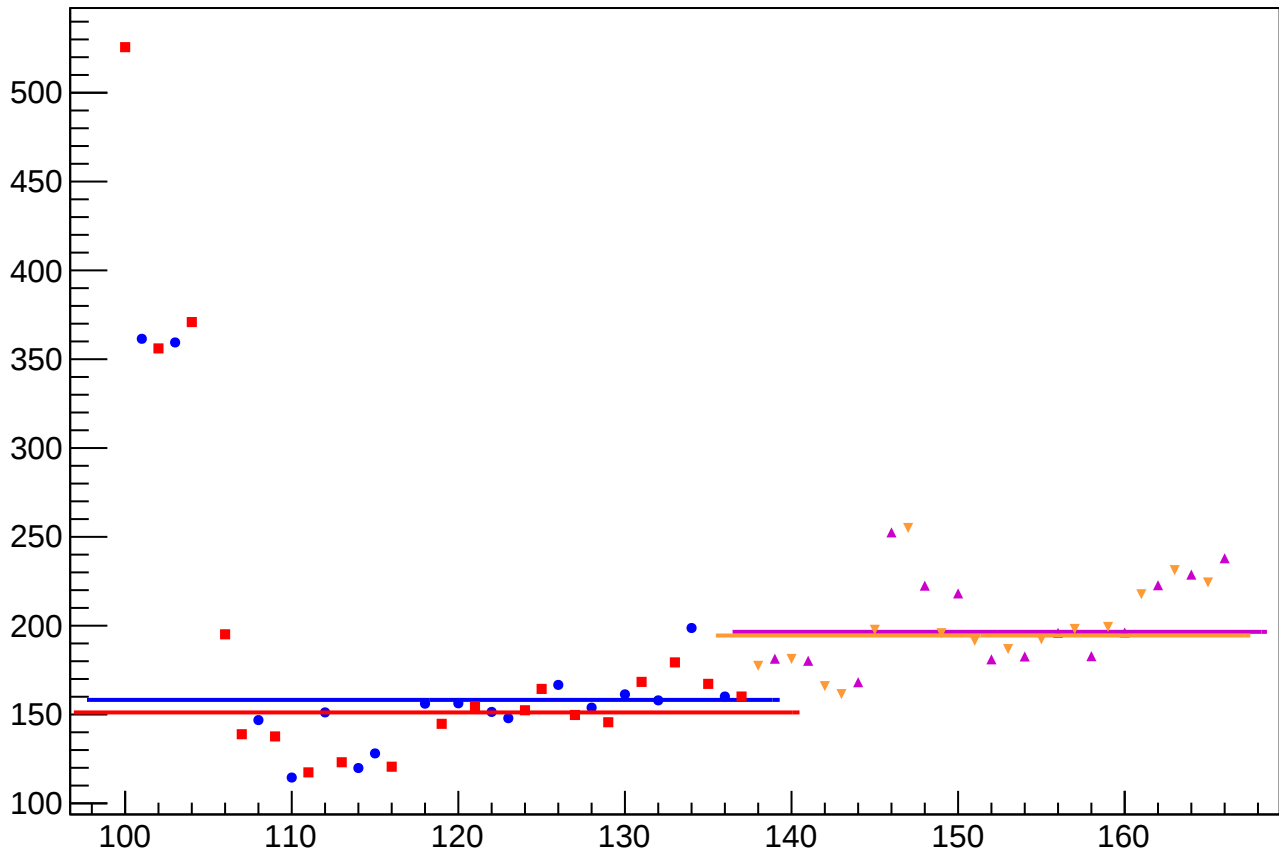
All: 171.118 $\pm$ 0.021 χ^2 /NDF: 3908625.4/64

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268+/-0.065	$\chi^2/\text{NDF}: 740367386.5/16$	Left: 153195.429+/-0.043	$\chi^2/\text{NDF}: 548473393.9/28$
Left Out: 152936.526+/-0.060	$\chi^2/\text{NDF}: 252042294.8/14$	Right: 142851.648+/-0.044	$\chi^2/\text{NDF}: 1590437268.8/30$
Right Out: 142849.362+/-0.060	$\chi^2/\text{NDF}: 850066807.5/18$	In: 148487.916+/-0.044	$\chi^2/\text{NDF}: 15294602278.2/30$
Left In: 153464.870+/-0.061	$\chi^2/\text{NDF}: 257892133.9/13$	Out: 147961.827+/-0.042	$\chi^2/\text{NDF}: 15239953908.9/30$
		All: 148213.518+/-0.031	$\chi^2/\text{NDF}: 306081619.9/30$

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 194.466+/-0.042 χ^2/NDF : 266915.0/14

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 196.535+/-0.043 χ^2/NDF : 293018.0/13

Left: 195.480+/-0.030 χ^2/NDF : 561115.7/28

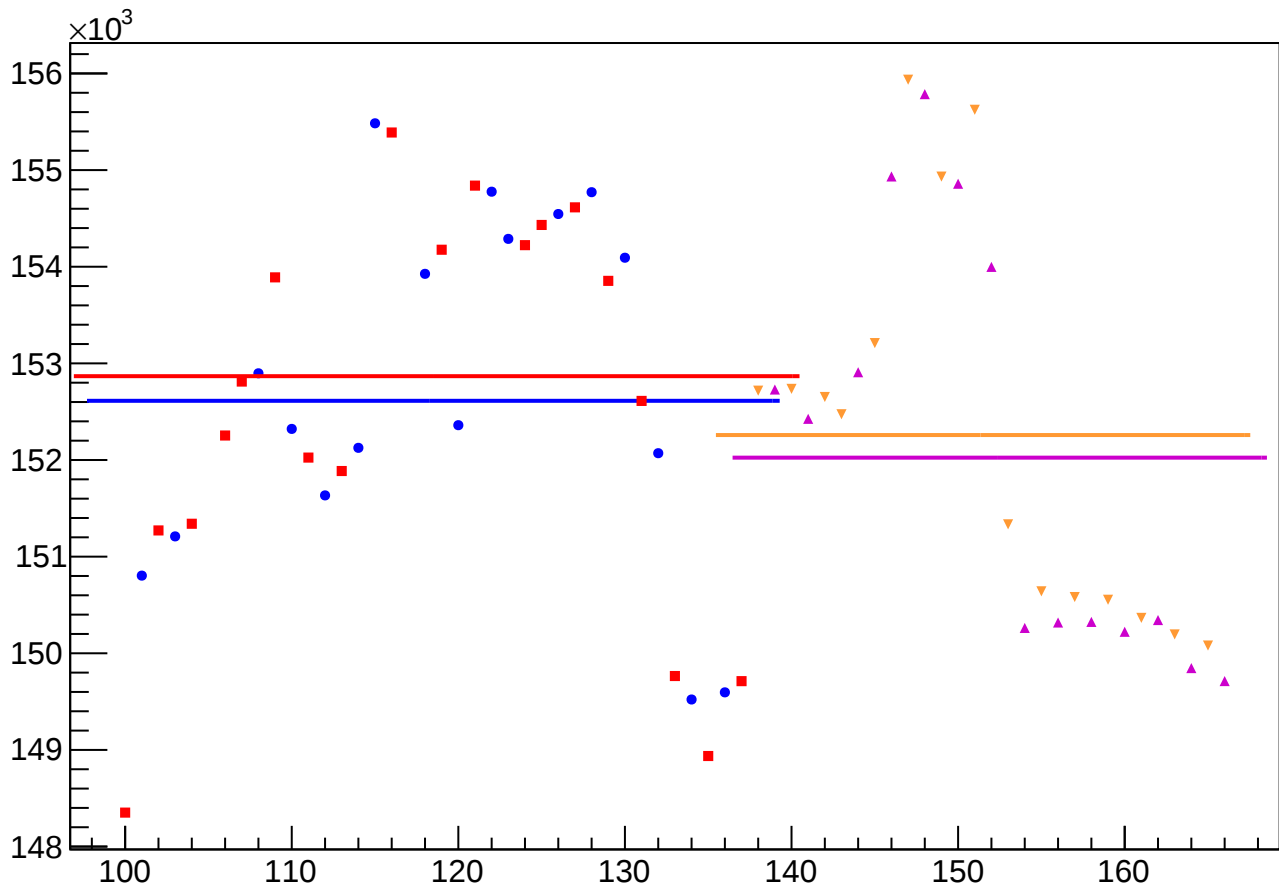
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 178.569+/-0.031 χ^2/NDF : 1549126.2/30

Out: 173.116+/-0.030 χ^2/NDF : 1791033.7/33

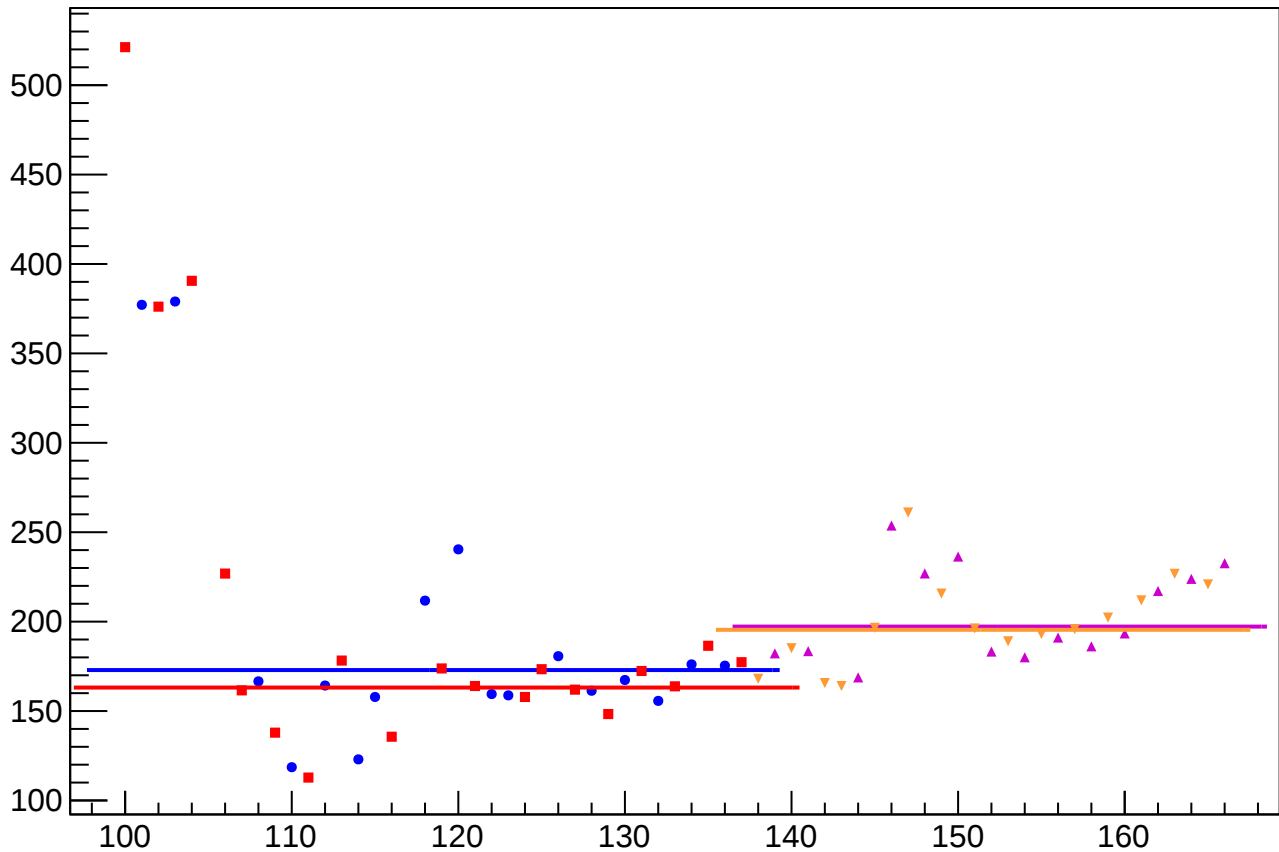
All: 175.725+/-0.022 χ^2/NDF : 3355980.1/64

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2 /NDF: 621416187.4/16	Left: 152143.742 $\pm$ 0.043	χ^2 /NDF: 1918635103.9/2
Left Out: 152258.325 $\pm$ 0.060	χ^2 /NDF: 908503255.1/14	Right: 152750.957 $\pm$ 0.049	χ^2 /NDF: 1347263895.4/
Right Out: 152867.453 $\pm$ 0.066	χ^2 /NDF: 719075986.4/18	In: 152268.741 $\pm$ 0.047	χ^2 /NDF: 1662838812.2/30
Left In: 152024.405 $\pm$ 0.061	χ^2 /NDF: 1002588594.5/13	Out: 152530.992 $\pm$ 0.044	χ^2 /NDF: 1674321865.7/3
		All: 152406.245 $\pm$ 0.032	χ^2 /NDF: 335382917

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921 ± 0.051 $\chi^2/\text{NDF}: 941954.0/16$

Left Out: 195.426 ± 0.042 $\chi^2/\text{NDF}: 286583.8/14$

Right Out: 163.138 ± 0.047 $\chi^2/\text{NDF}: 1033751.2/18$

Left In: 197.227 ± 0.043 $\chi^2/\text{NDF}: 305145.5/13$

Left: 196.308 ± 0.030 $\chi^2/\text{NDF}: 592624.2/28$

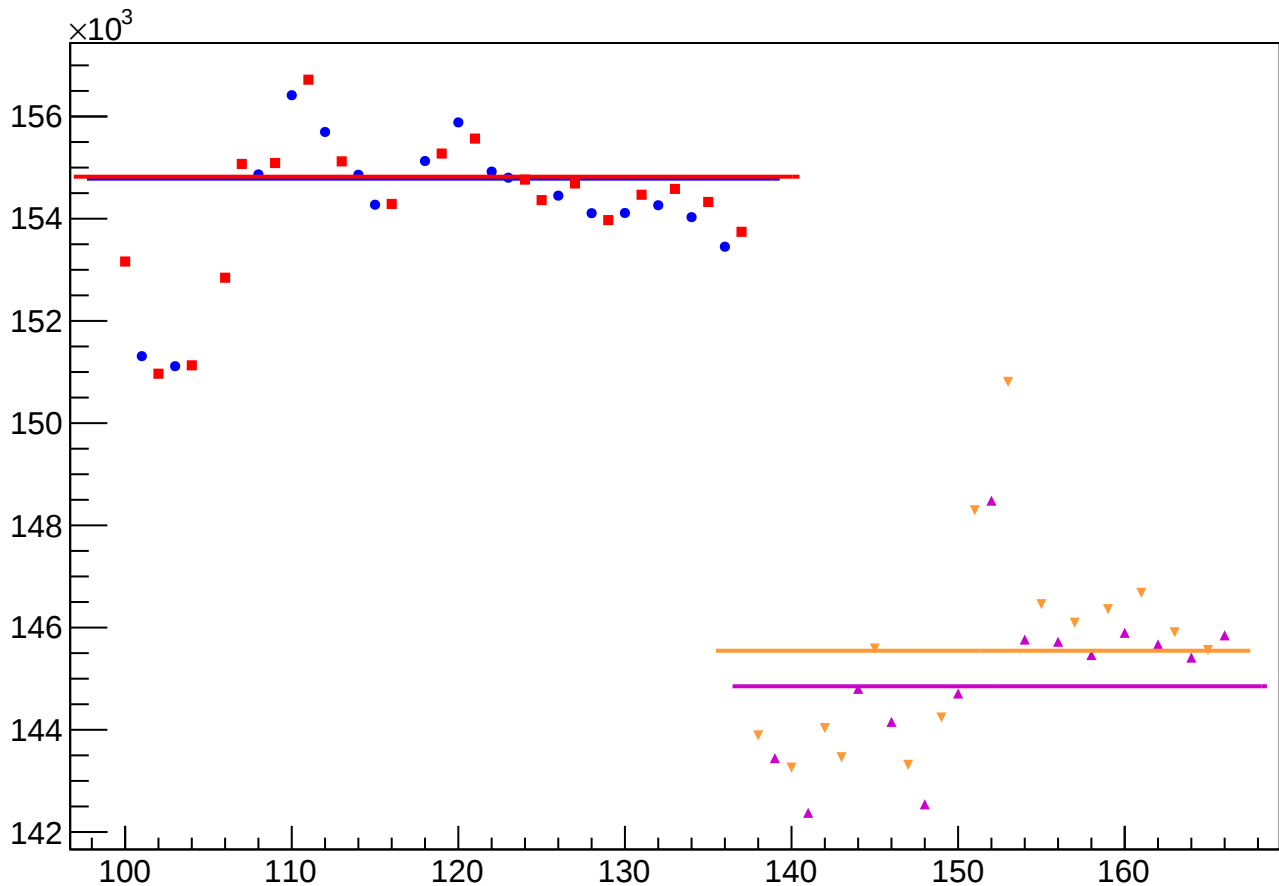
Right: 167.610 ± 0.034 $\chi^2/\text{NDF}: 1995658.5/35$

In: 187.130 ± 0.033 $\chi^2/\text{NDF}: 1379736.0/30$

Out: 180.973 ± 0.031 $\chi^2/\text{NDF}: 1582996.4/33$

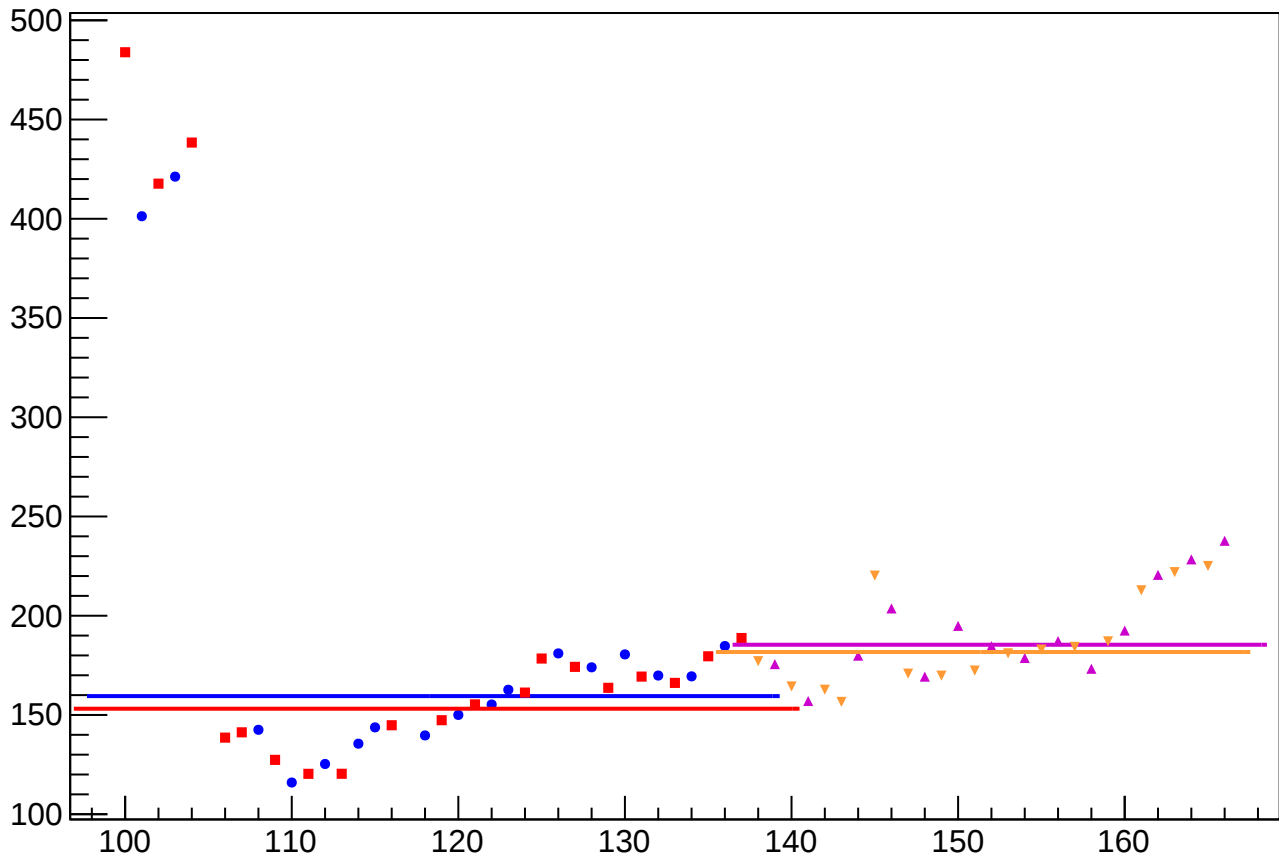
All: 183.902 ± 0.023 $\chi^2/\text{NDF}: 2981110.3/64$

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944+/-0.065	χ^2/NDF : 265581398.0/16	Left: 145209.506+/-0.040	χ^2/NDF : 2380841999.7/2
Left Out: 145547.161+/-0.055	χ^2/NDF : 1481720052.6/14	Right: 154804.381+/-0.045	χ^2/NDF : 559614489.4/3
Right Out: 154822.113+/-0.061	χ^2/NDF : 293850525.9/18	In: 149135.836+/-0.043	χ^2/NDF : 14217060514.3/3
Left In: 144851.238+/-0.057	χ^2/NDF : 822202968.3/13	Out: 149737.233+/-0.041	χ^2/NDF : 14496882974.3/3
		All: 149450.926+/-0.030	χ^2/NDF : 288167507

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: 185.382 $\pm$ 0.040 χ^2 /NDF:237498.5/13

Left: 183.499 $\pm$ 0.028 χ^2 /NDF: 497665.1/28

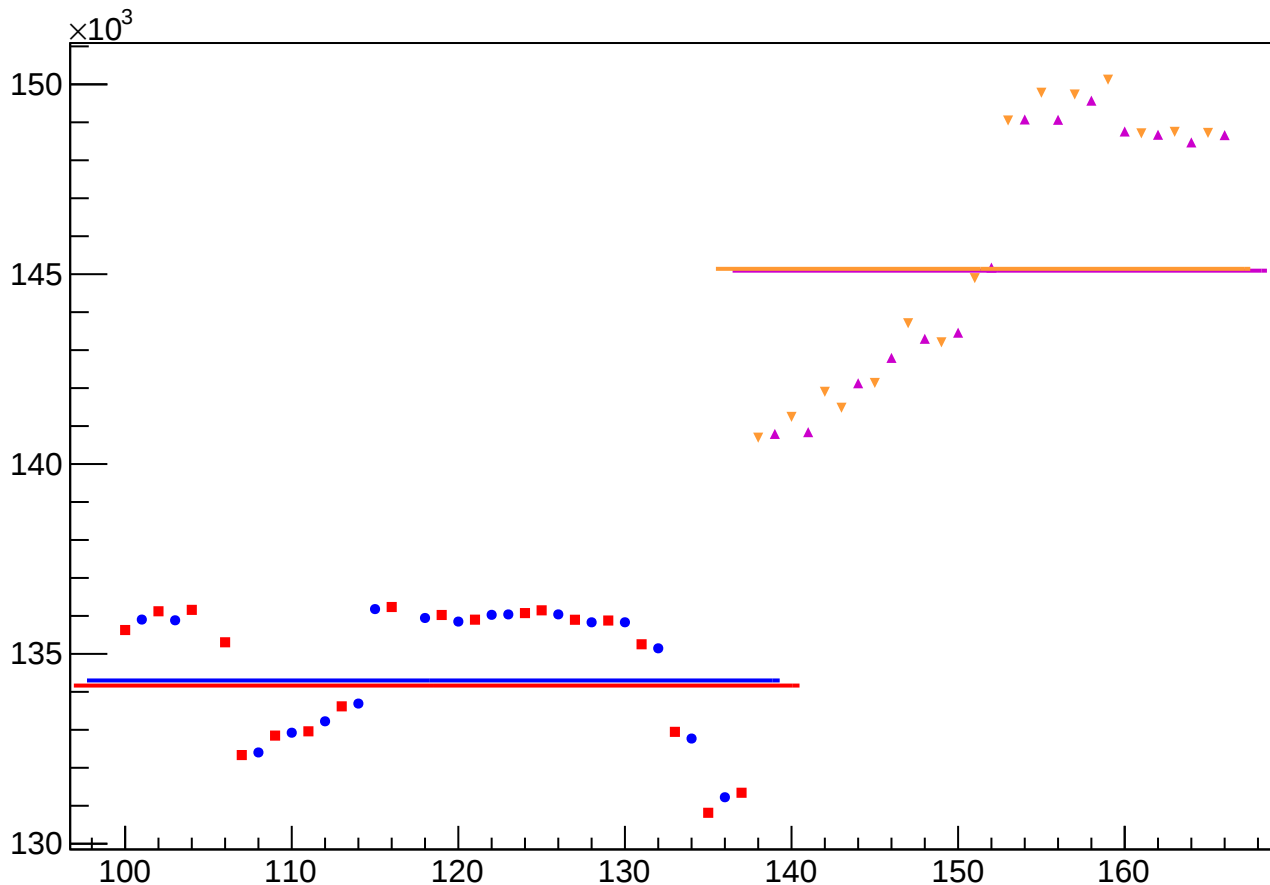
Right: 156.104 $\pm$ 0.032 χ^2 /NDF: 2315690.5/35

In: 174.219 $\pm$ 0.030 χ^2 /NDF:1547587.7/30

Out: 168.817 $\pm$ 0.029 χ^2 /NDF:1671094.6/33

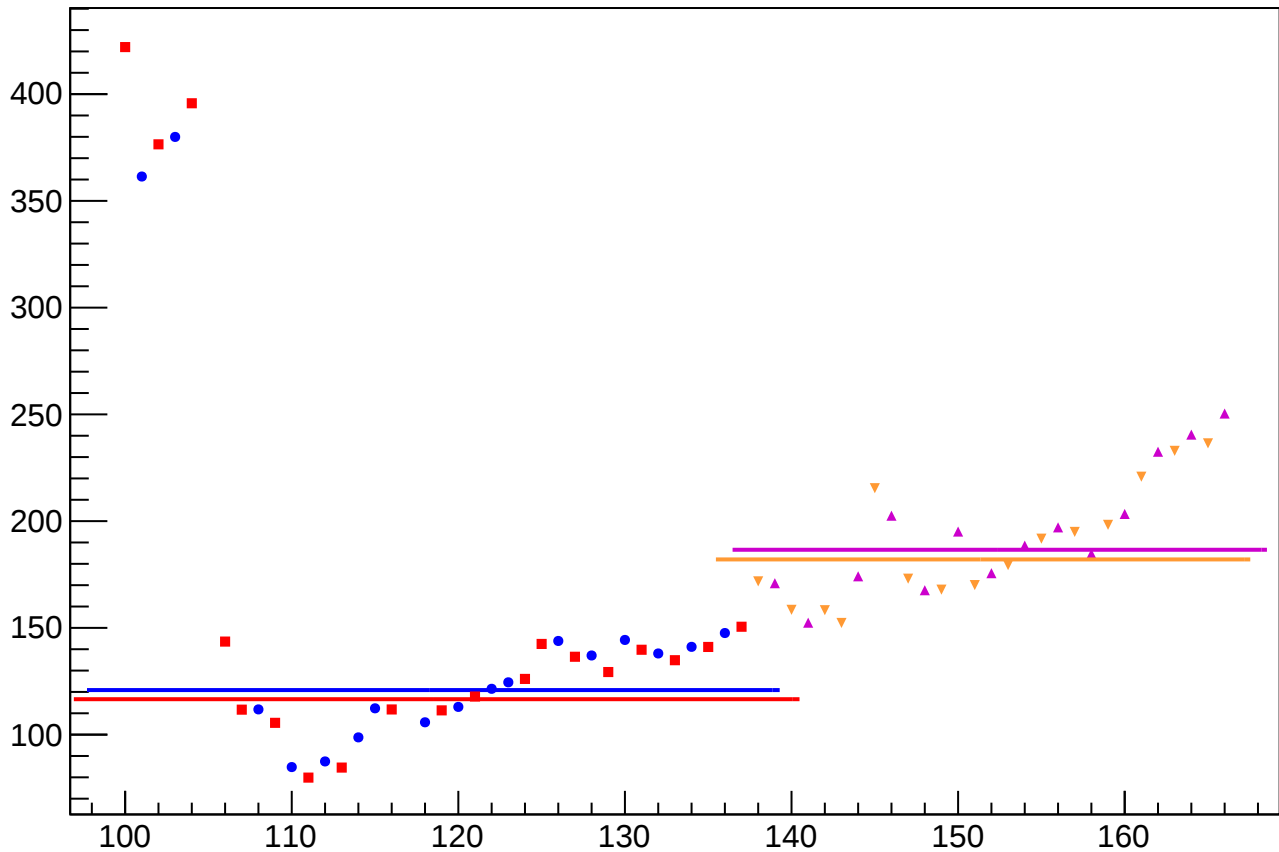
All: 171.389 $\pm$ 0.021 χ^2 /NDF: 3235270.8/64

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050	χ^2 /NDF: 1149581803.2/16	Left: 145117.761 $\pm$ 0.040	χ^2 /NDF: 7488750353.4/2
Left Out: 145141.142 $\pm$ 0.056	χ^2 /NDF: 4086040074.4/14	Right: 134228.768 $\pm$ 0.035	χ^2 /NDF: 2364832007.2/14
Right Out: 134165.615 $\pm$ 0.047	χ^2 /NDF: 1211471052.4/18	In: 138982.517 $\pm$ 0.038	χ^2 /NDF: 24492687424.3/3
Left In: 145092.699 $\pm$ 0.058	χ^2 /NDF: 3402343160.1/13	Out: 138789.707 $\pm$ 0.036	χ^2 /NDF: 27892816983.7/13
		All: 138881.353 $\pm$ 0.026	χ^2 /NDF: 52399098

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 ± 0.036 χ^2/NDF : 1463728.4/16

Left Out: 182.062 ± 0.039 χ^2/NDF : 370824.5/14

Right Out: 116.595 ± 0.034 χ^2/NDF : 1541338.5/18

Left In: 186.589 ± 0.041 χ^2/NDF : 348275.1/13

Left: 184.247 ± 0.028 χ^2/NDF : 725513.2/28

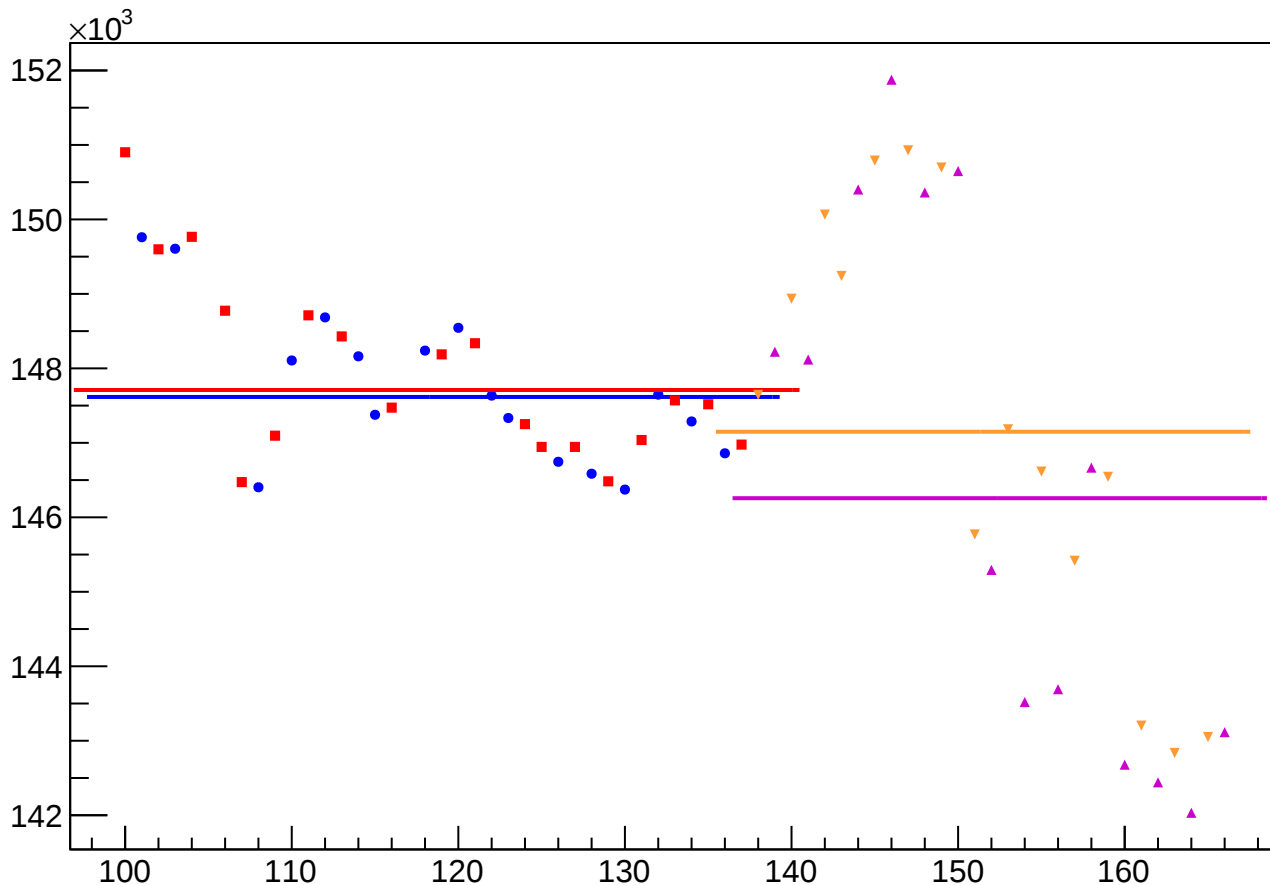
Right: 118.605 ± 0.024 χ^2/NDF : 3012723.0/35

In: 149.384 ± 0.027 χ^2/NDF : 3290658.2/30

Out: 144.177 ± 0.025 χ^2/NDF : 3520007.8/33

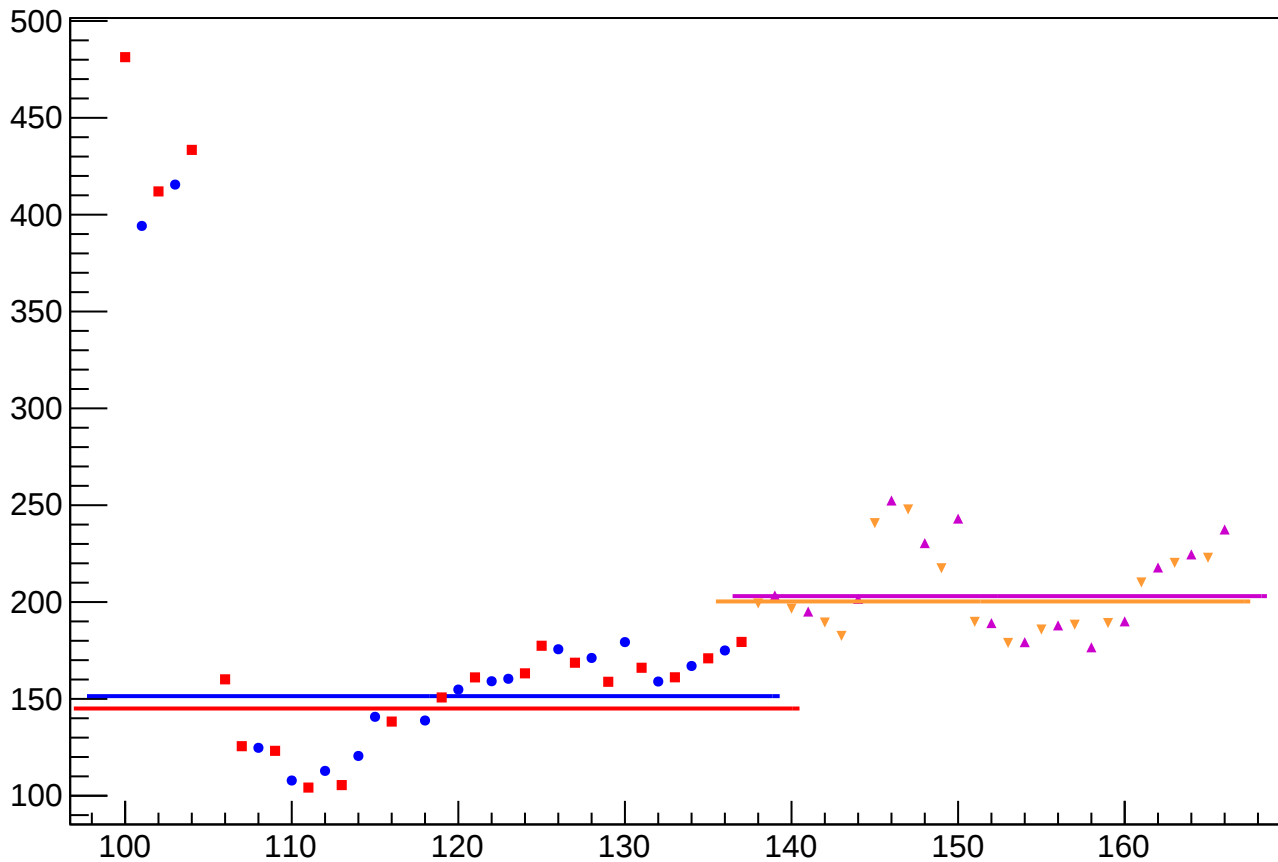
All: 146.652 ± 0.018 χ^2/NDF : 6830500.8/64

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062 χ^2/NDF : 199263428.7/16
 Left Out: 147149.247 $\pm$ 0.061 χ^2/NDF : 1697227401.6/14
 Right Out: 147709.723 $\pm$ 0.058 χ^2/NDF : 203906685.9/18
 Left In: 146256.953 $\pm$ 0.062 χ^2/NDF : 2597245111.5/13
 Left: 146714.067 $\pm$ 0.044 χ^2/NDF : 4399061296.5/12
 Right: 147666.153 $\pm$ 0.043 χ^2/NDF : 404368550.3/3
 In: 146936.174 $\pm$ 0.044 χ^2/NDF : 3033234428.1/30
 Out: 147441.727 $\pm$ 0.042 χ^2/NDF : 1945287204.3/3
 All: 147200.872 $\pm$ 0.030 χ^2/NDF : 504711126.0/1

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424 $\pm$ 0.044 χ^2 /NDF: 1257843.0/16

Left Out: 200.320 $\pm$ 0.043 χ^2 /NDF:201831.4/14

Right Out: 145.039 $\pm$ 0.041 χ^2 /NDF: 1375972.0/18

Left In: 203.056 $\pm$ 0.044 χ^2 /NDF:264913.2/13

Left: 201.654 $\pm$ 0.031 χ^2 /NDF: 468711.7/28

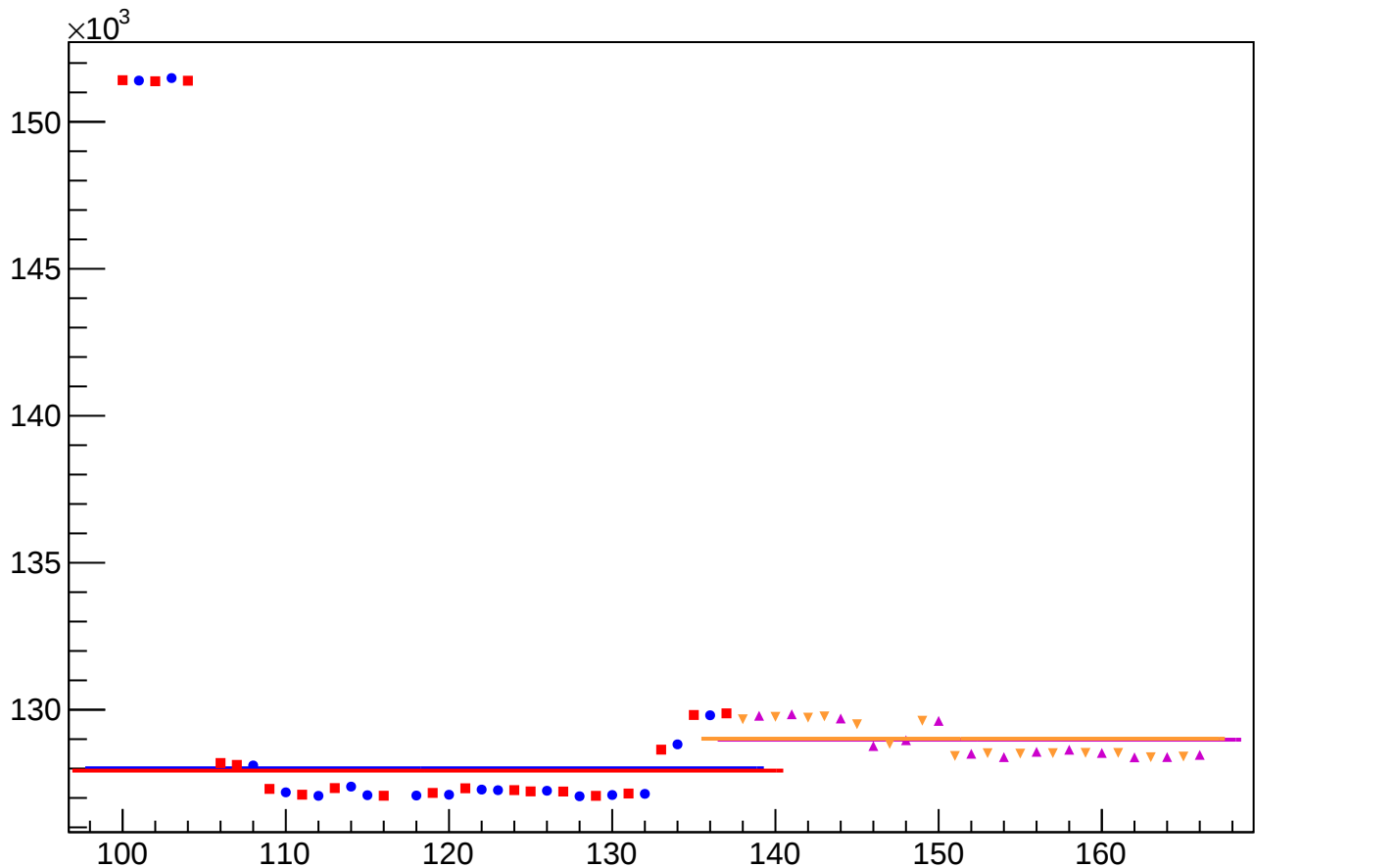
Right: 148.012 $\pm$ 0.030 χ^2 /NDF: 2644973.7/35

In: 177.254 $\pm$ 0.031 χ^2 /NDF:2205952.2/30

Out: 171.472 $\pm$ 0.030 χ^2 /NDF:2436848.6/33

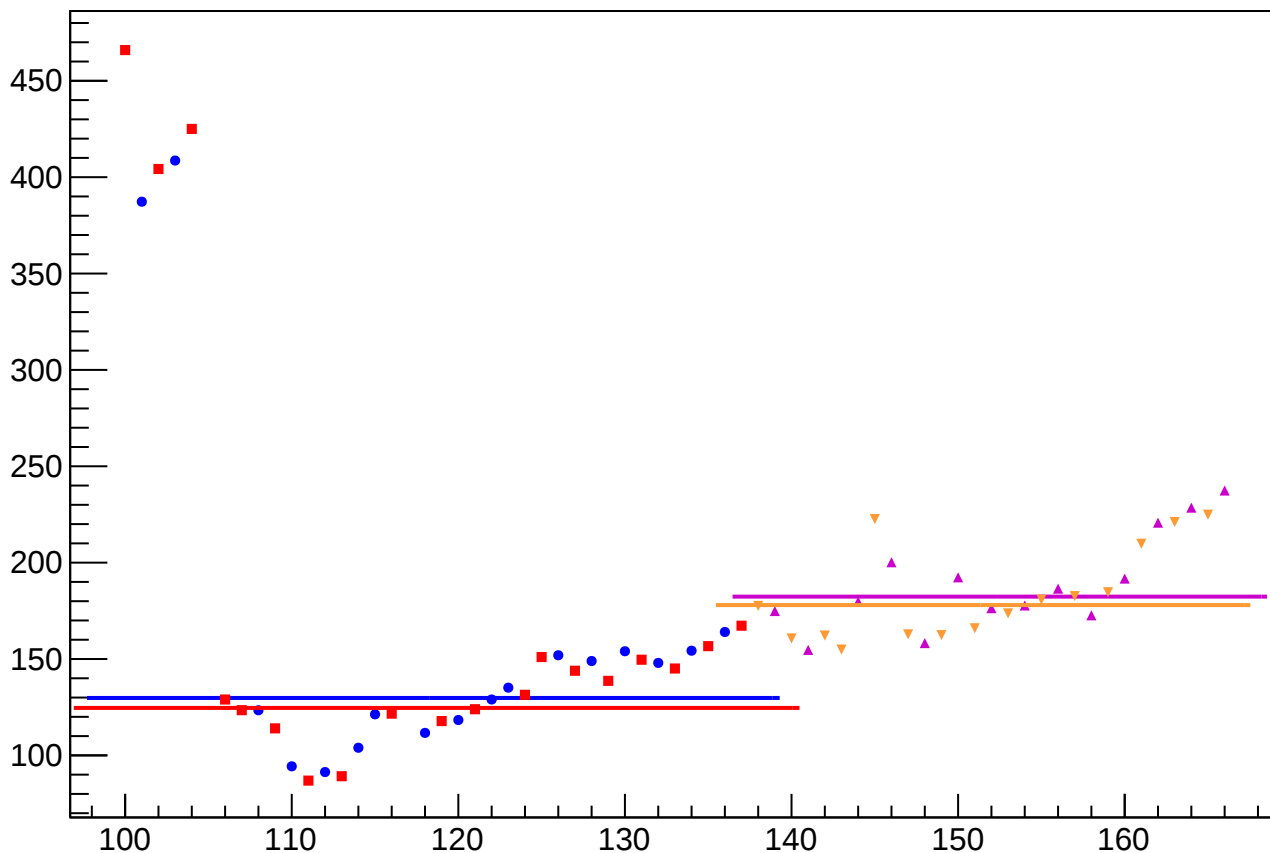
All: 174.227 $\pm$ 0.022 χ^2 /NDF: 4660745.7/64

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364+/-0.054	χ^2/NDF : 4319785674.5/16	Left: 128998.878+/-0.039	χ^2/NDF : 218020102.5/28
Left Out: 129014.865+/-0.054	χ^2/NDF : 114332311.7/14	Right: 127965.988+/-0.037	χ^2/NDF : 8089052681.4/4
Right Out: 127930.136+/-0.050	χ^2/NDF : 3768176193.0/18	In: 128477.296+/-0.039	χ^2/NDF : 4579599837.6/30
Left In: 128981.722+/-0.056	χ^2/NDF : 103506954.1/13	Out: 128433.641+/-0.037	χ^2/NDF : 4097681136.9/3
		All: 128454.281+/-0.027	χ^2/NDF : 867794349

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: 182.367 $\pm$ 0.040 χ^2 /NDF:275823.6/13

Left: 180.097 $\pm$ 0.028 χ^2 /NDF: 583067.2/28

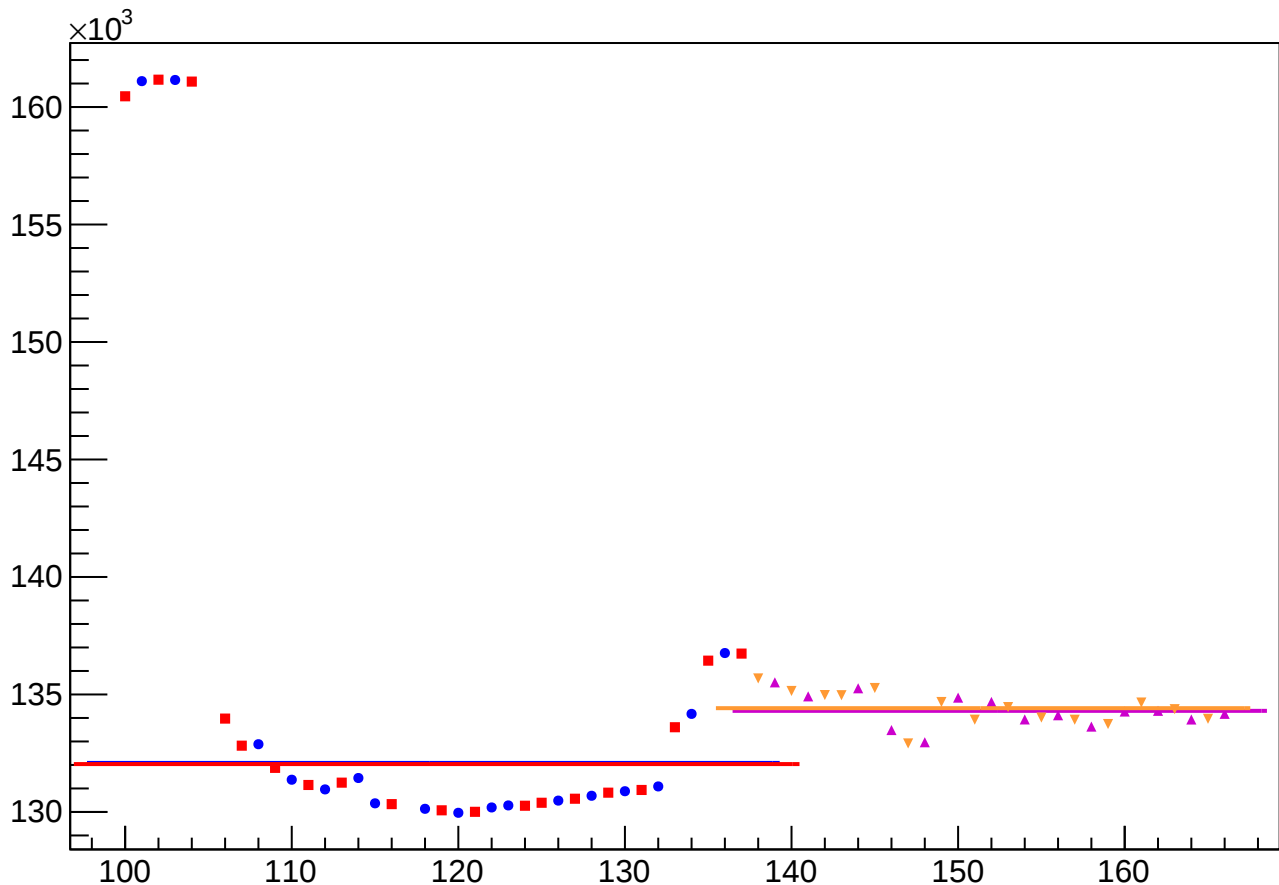
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 155.151 $\pm$ 0.028 χ^2 /NDF:2671182.2/30

Out: 149.392 $\pm$ 0.026 χ^2 /NDF:2874017.8/33

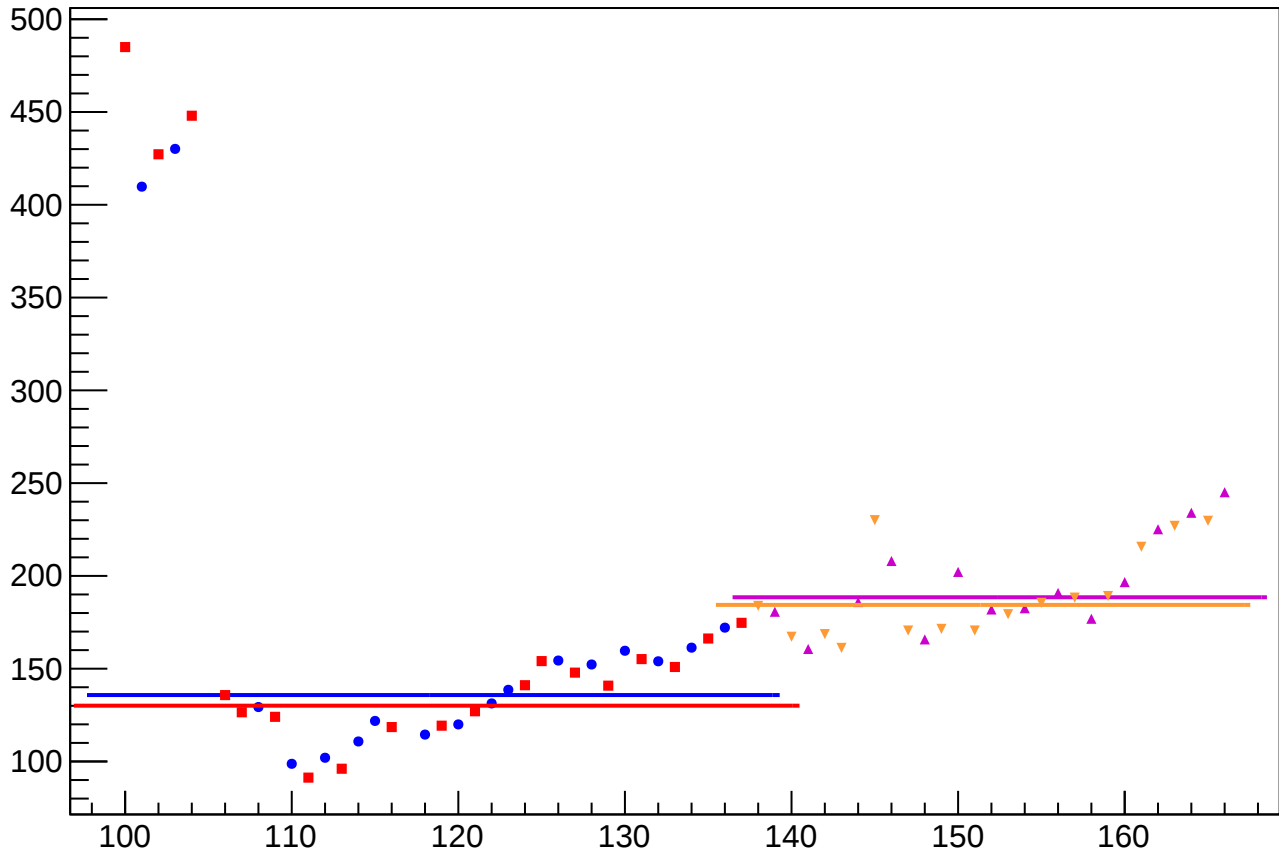
All: 152.115 $\pm$ 0.019 χ^2 /NDF: 5568262.3/64

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057	χ^2/NDF : 6733230928.7/16	Left: 134361.750 $\pm$ 0.040	χ^2/NDF : 322042379.9/28
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: 133167.371 $\pm$ 0.040	χ^2/NDF : 7639939875.5/30
Left In: 134302.923 $\pm$ 0.058	χ^2/NDF : 157217450.9/13	Out: 133150.001 $\pm$ 0.038	χ^2/NDF : 7004168327.8/30
		All: 133158.216 $\pm$ 0.028	χ^2/NDF : 146442053.0/16

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: 188.490 $\pm$ 0.041 χ^2/NDF :261745.5/13

Left: 186.366 $\pm$ 0.028 χ^2/NDF : 541308.8/28

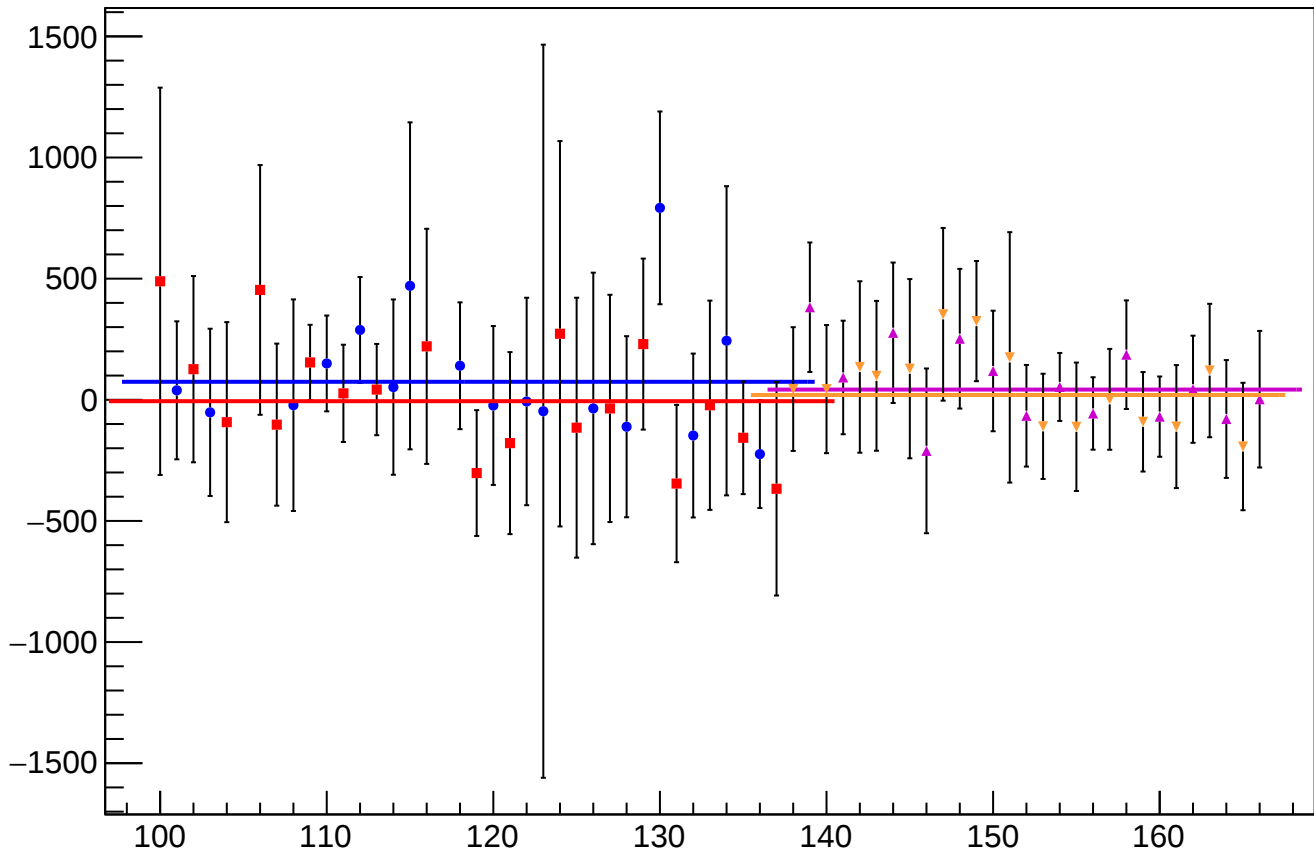
Right: 132.723 $\pm$ 0.027 χ^2/NDF : 2956918.0/35

In: 161.490 $\pm$ 0.029 χ^2/NDF :2551119.5/30

Out: 155.463 $\pm$ 0.027 χ^2/NDF :2777933.3/33

All: 158.313 $\pm$ 0.020 χ^2/NDF : 5352438.5/64

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: 42.132 $\pm$ 57.207 χ^2/NDF : 5.3/13

Left: 33.097 $\pm$ 44.098 χ^2/NDF : 10.1/28

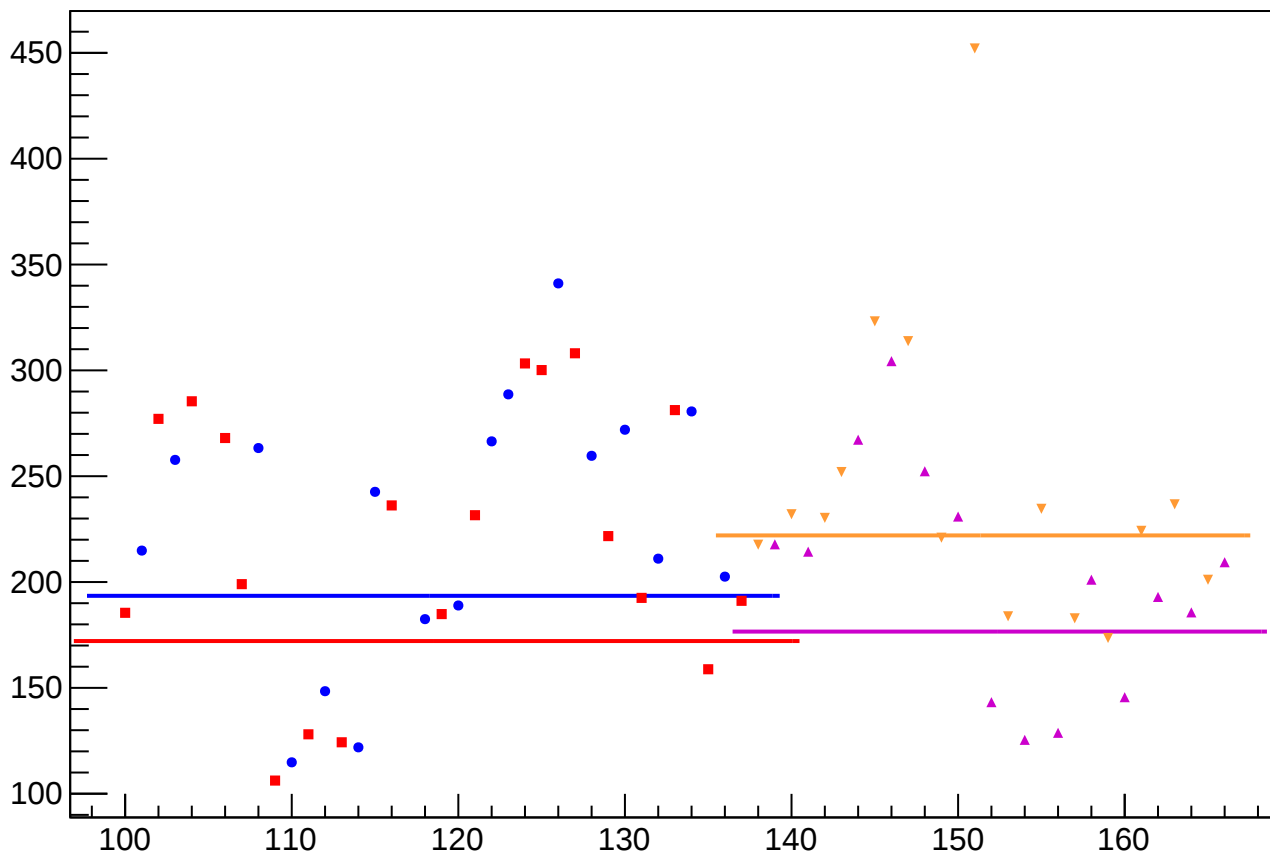
Right: 29.490 $\pm$ 52.426 χ^2/NDF : 15.4/35

In: 53.192 $\pm$ 46.338 χ^2/NDF : 13.1/30

Out: 7.218 $\pm$ 49.246 χ^2/NDF : 11.9/33

All: 31.603 $\pm$ 33.747 χ^2/NDF : 25.5/64

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: 176.592+/-0.040 χ^2/NDF : 1466814.0/13

Left: 195.029+/-0.031 χ^2/NDF : 2947678.5/28

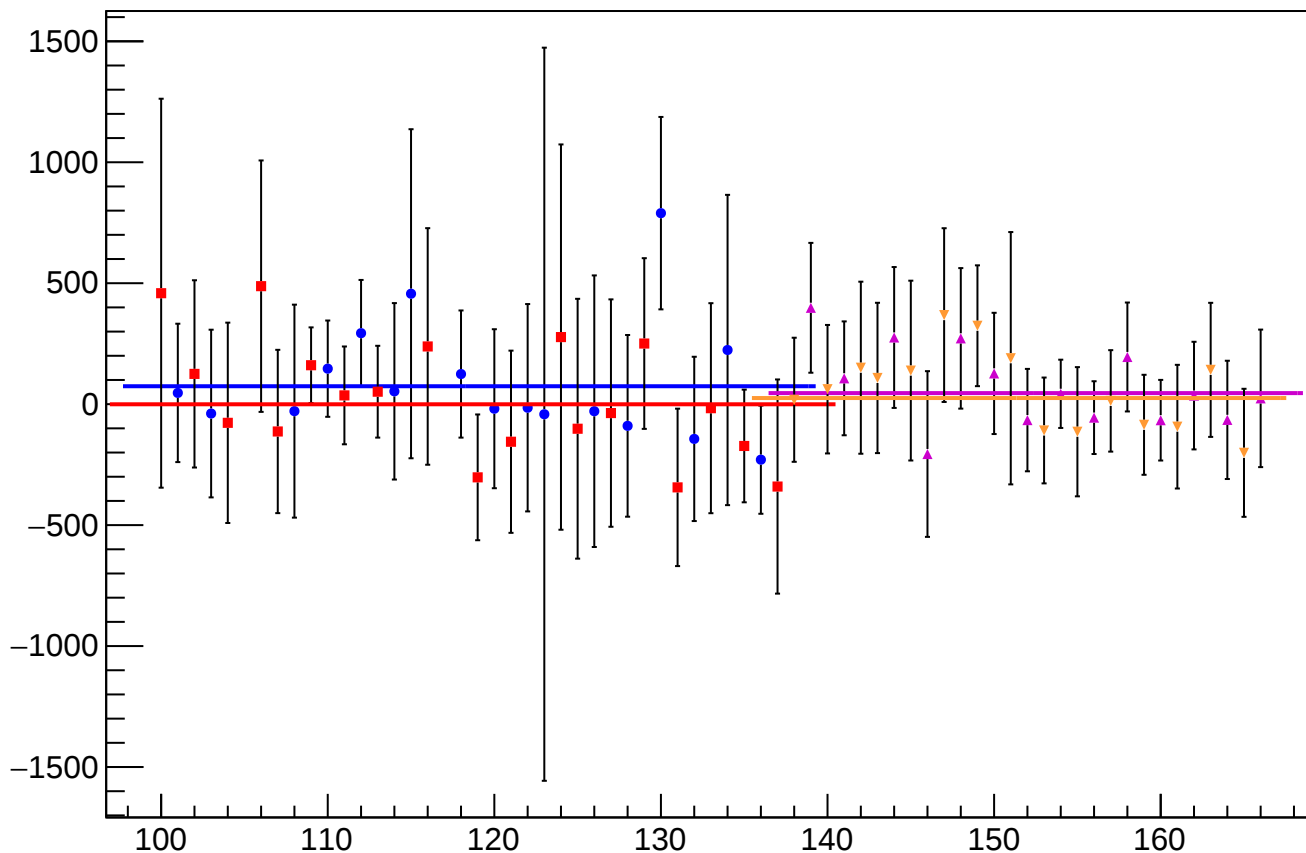
Right: 181.527+/-0.037 χ^2/NDF : 2678891.2/35

In: 182.402+/-0.033 χ^2/NDF : 2544007.9/30

Out: 197.377+/-0.035 χ^2/NDF : 3062162.2/33

All: 189.434+/-0.024 χ^2/NDF : 5704255.3/64

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 ± 79.404 χ^2/NDF : 7.6/16

Left Out: 25.308 ± 69.671 χ^2/NDF : 4.8/14

Right Out: -0.503 ± 70.437 χ^2/NDF : 7.3/18

Left In: 45.717 ± 57.559 χ^2/NDF : 5.5/13

Left: 37.438 ± 44.374 χ^2/NDF : 10.4/28

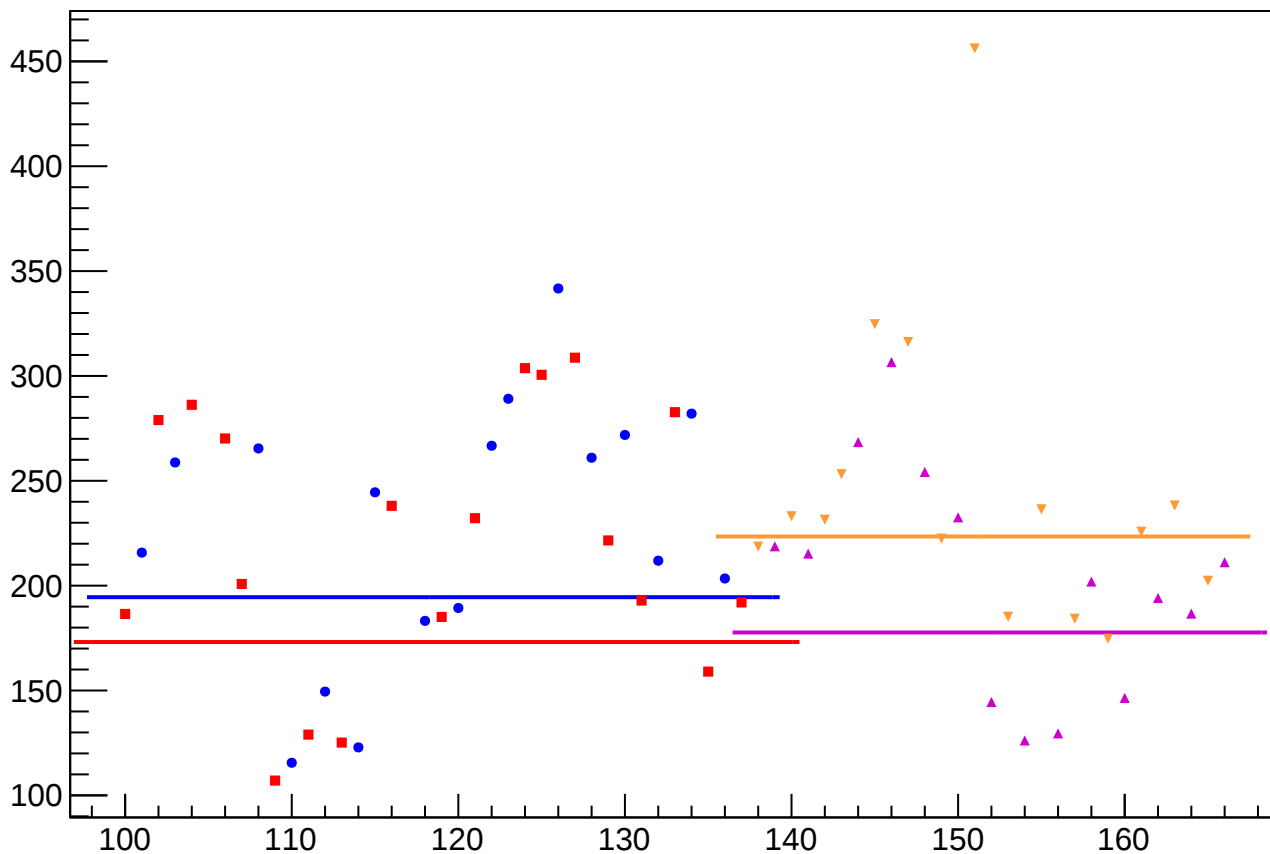
Right: 32.349 ± 52.693 χ^2/NDF : 15.4/35

In: 55.493 ± 46.603 χ^2/NDF : 13.1/30

Out: 12.544 ± 49.533 χ^2/NDF : 12.2/33

All: 35.326 ± 33.942 χ^2/NDF : 25.7/64

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496+/-0.056 χ^2/NDF : 1008514.7/16

Left Out: 223.444+/-0.049 χ^2/NDF : 968466.8/14

Right Out: 173.111+/-0.050 χ^2/NDF : 1567374.3/18

Left In: 177.674+/-0.041 χ^2/NDF : 1465508.0/13

Left: 196.241+/-0.031 χ^2/NDF : 2946977.0/28

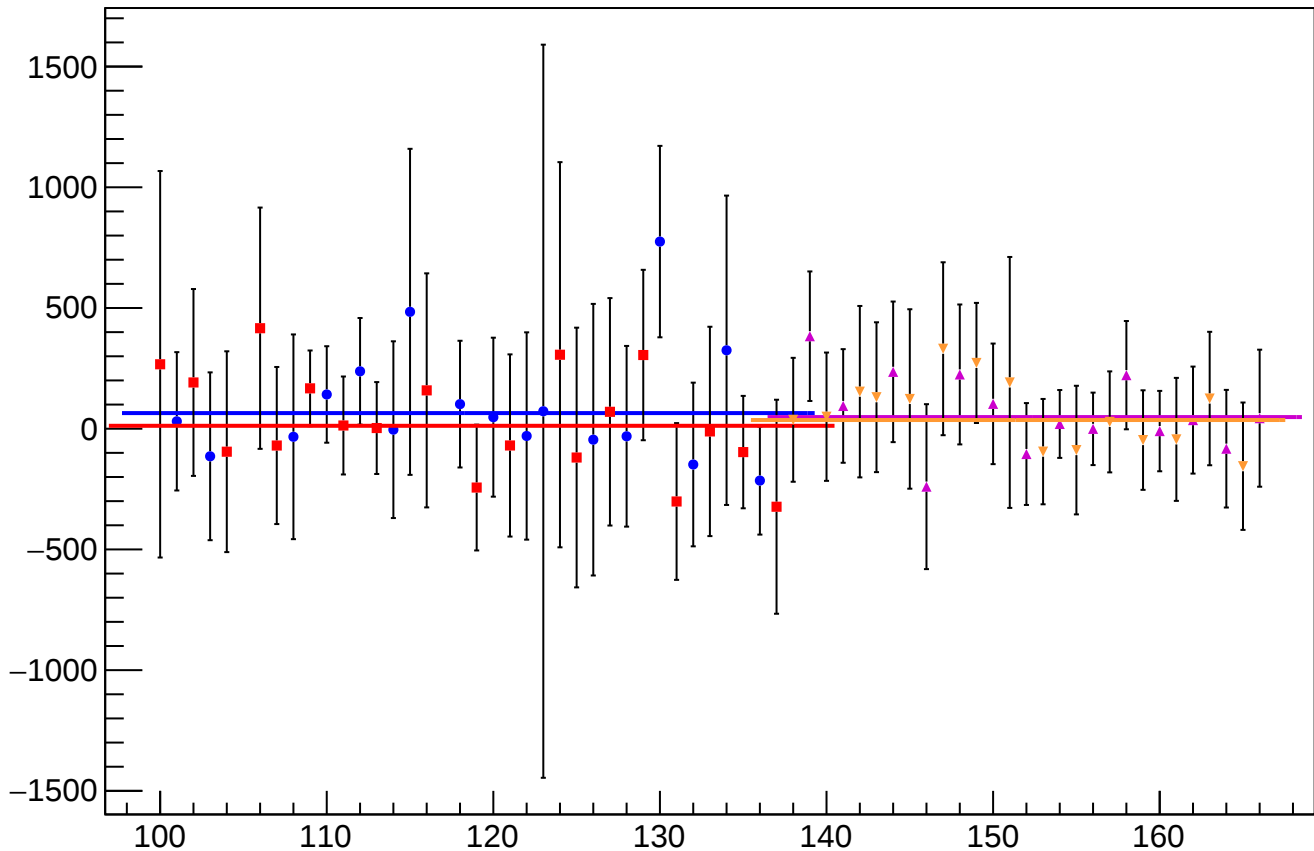
Right: 182.529+/-0.037 χ^2/NDF : 2657073.5/35

In: 183.469+/-0.033 χ^2/NDF : 2532866.6/30

Out: 198.553+/-0.035 χ^2/NDF : 3052049.4/33

All: 190.551+/-0.024 χ^2/NDF : 5683296.4/64

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: 48.217+/-57.418 χ^2/NDF : 4.8/13

Left: 43.262+/-44.270 χ^2/NDF : 8.3/28

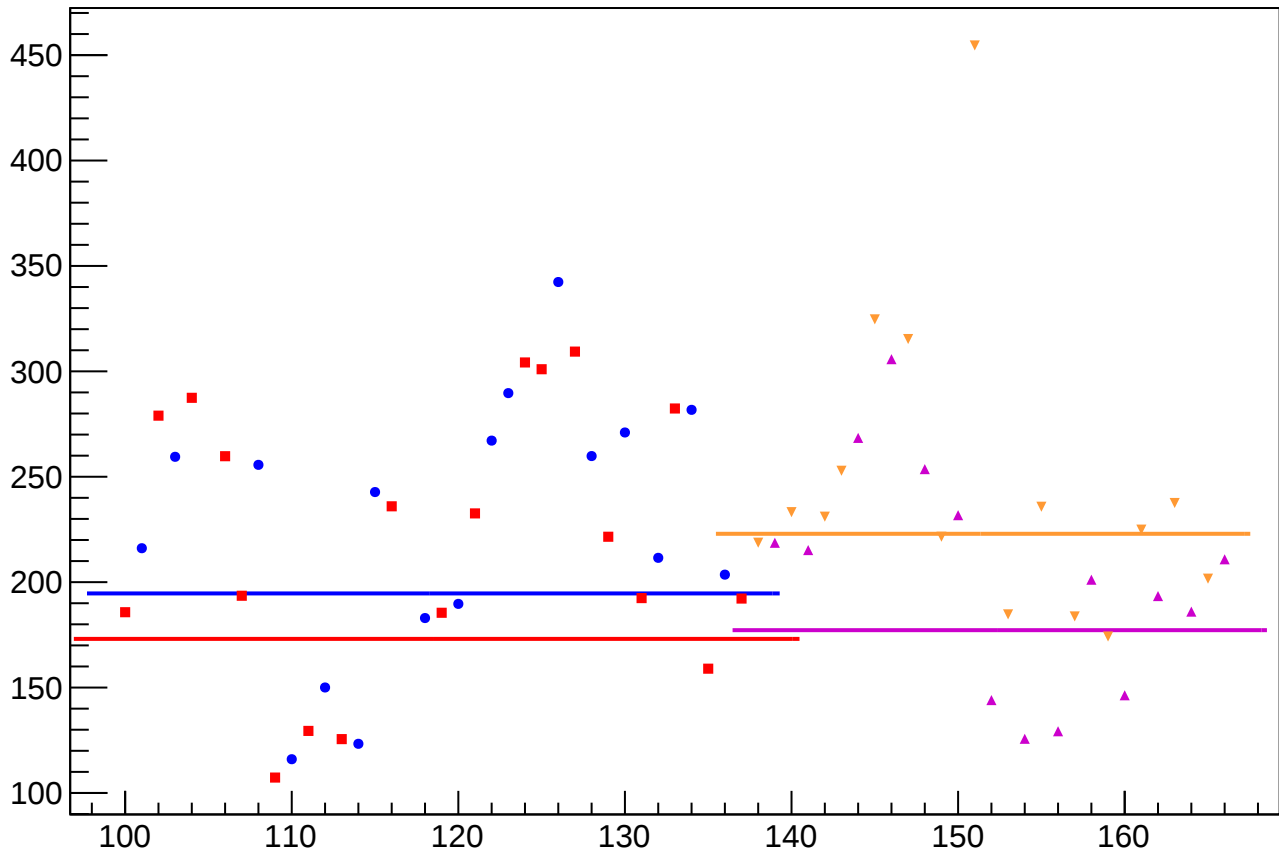
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 53.888+/-46.527 χ^2/NDF : 11.9/30

Out: 24.191+/-49.451 χ^2/NDF : 9.3/33

All: 39.944+/-33.886 χ^2/NDF : 21.3/64

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652+/-0.056 χ^2/NDF : 986798.9/16

Left Out: 222.940+/-0.049 χ^2/NDF : 970205.0/14

Right Out: 173.089+/-0.050 χ^2/NDF : 1544540.9/18

Left In: 177.225+/-0.041 χ^2/NDF : 1469000.3/13

Left: 195.764+/-0.031 χ^2/NDF : 2953358.1/28

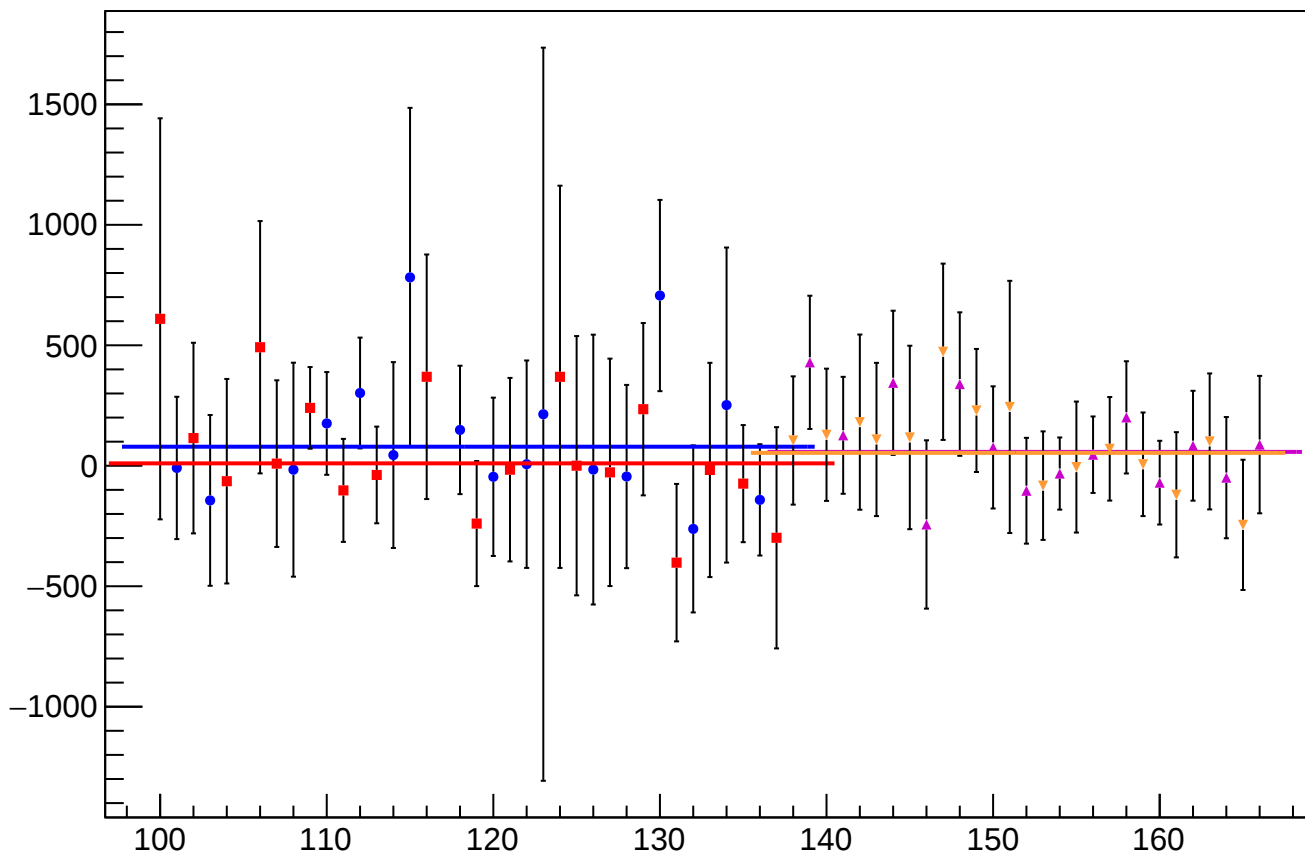
Right: 182.574+/-0.037 χ^2/NDF : 2613964.4/35

In: 183.209+/-0.033 χ^2/NDF : 2519061.9/30

Out: 198.315+/-0.035 χ^2/NDF : 3022790.0/33

All: 190.302+/-0.024 χ^2/NDF : 5640849.7/64

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 ± 81.874 $\chi^2/\text{NDF}: 7.5/16$

Left Out: 53.526 ± 71.466 $\chi^2/\text{NDF}: 4.4/14$

Right Out: 9.982 ± 73.310 $\chi^2/\text{NDF}: 7.9/18$

Left In: 57.600 ± 59.739 $\chi^2/\text{NDF}: 6.5/13$

Left: 55.924 ± 45.835 $\chi^2/\text{NDF}: 10.9/28$

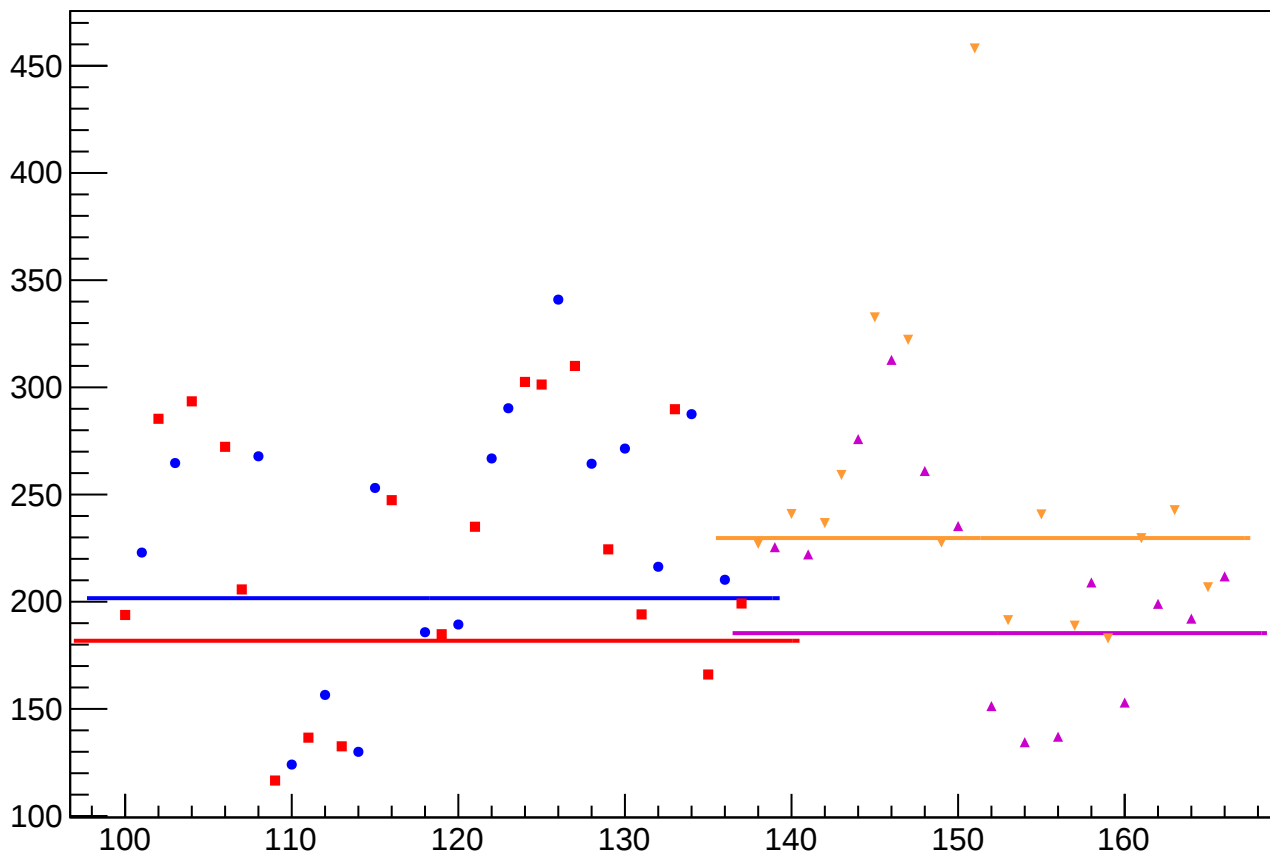
Right: 40.751 ± 54.616 $\chi^2/\text{NDF}: 15.8/35$

In: 65.080 ± 48.259 $\chi^2/\text{NDF}: 14.0/30$

Out: 32.308 ± 51.174 $\chi^2/\text{NDF}: 12.4/33$

All: 49.654 ± 35.109 $\chi^2/\text{NDF}: 26.7/64$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654+/-0.058 χ^2/NDF : 883179.7/16

Left Out: 229.703+/-0.051 χ^2/NDF : 923639.6/14

Right Out: 181.797+/-0.052 χ^2/NDF : 1377449.9/18

Left In: 185.356+/-0.042 χ^2/NDF : 1324177.5/13

Left: 203.597+/-0.032 χ^2/NDF : 2701145.1/28

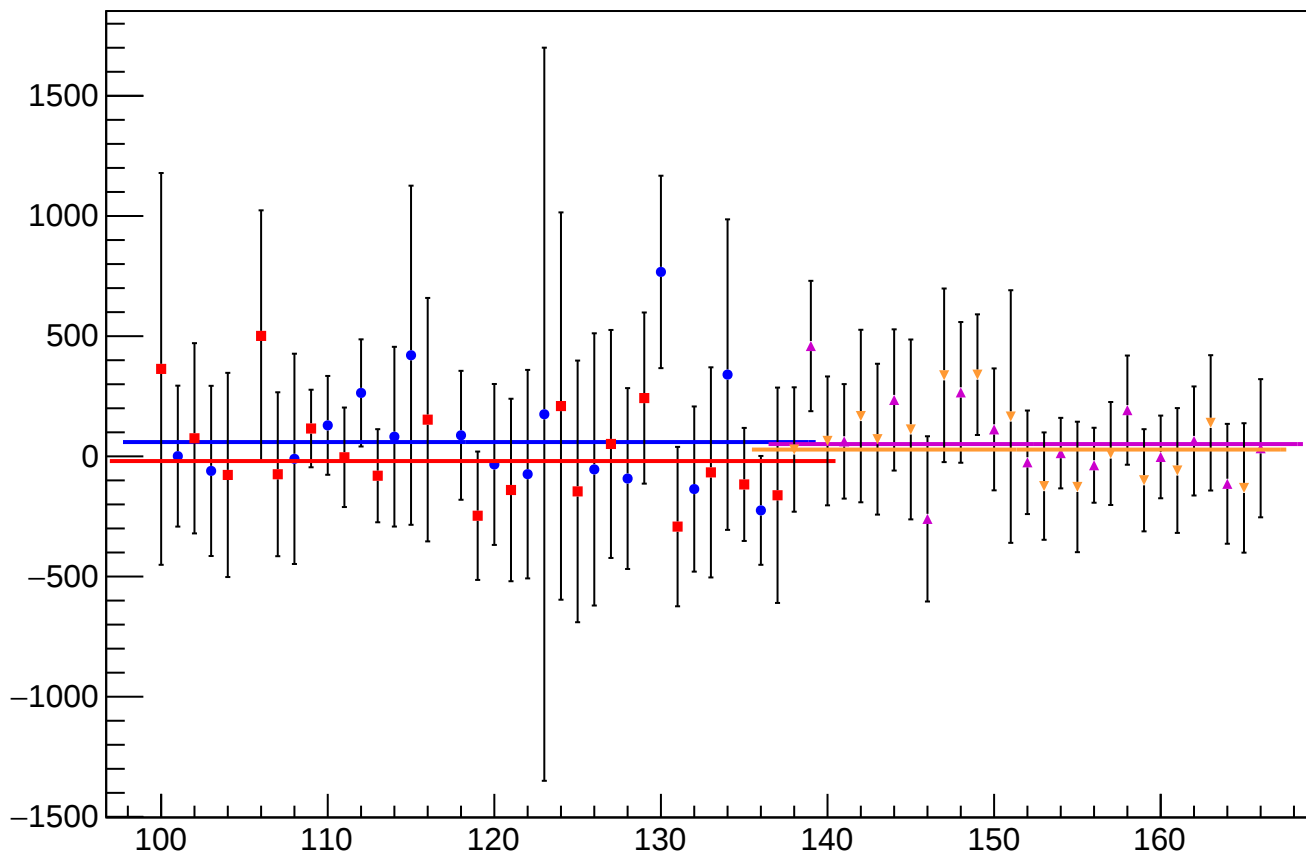
Right: 190.633+/-0.039 χ^2/NDF : 2325921.8/35

In: 191.019+/-0.034 χ^2/NDF : 2259072.8/30

Out: 206.360+/-0.036 χ^2/NDF : 2738974.8/33

All: 198.240+/-0.025 χ^2/NDF : 5093186.1/64

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496+/-80.808 χ^2/NDF : 7.0/16

Left Out: 28.290+/-70.736 χ^2/NDF : 4.4/14

Right Out: -19.541+/-71.866 χ^2/NDF : 4.7/18

Left In: 51.134+/-58.883 χ^2/NDF : 5.5/13

Left: 41.784+/-45.255 χ^2/NDF : 9.9/28

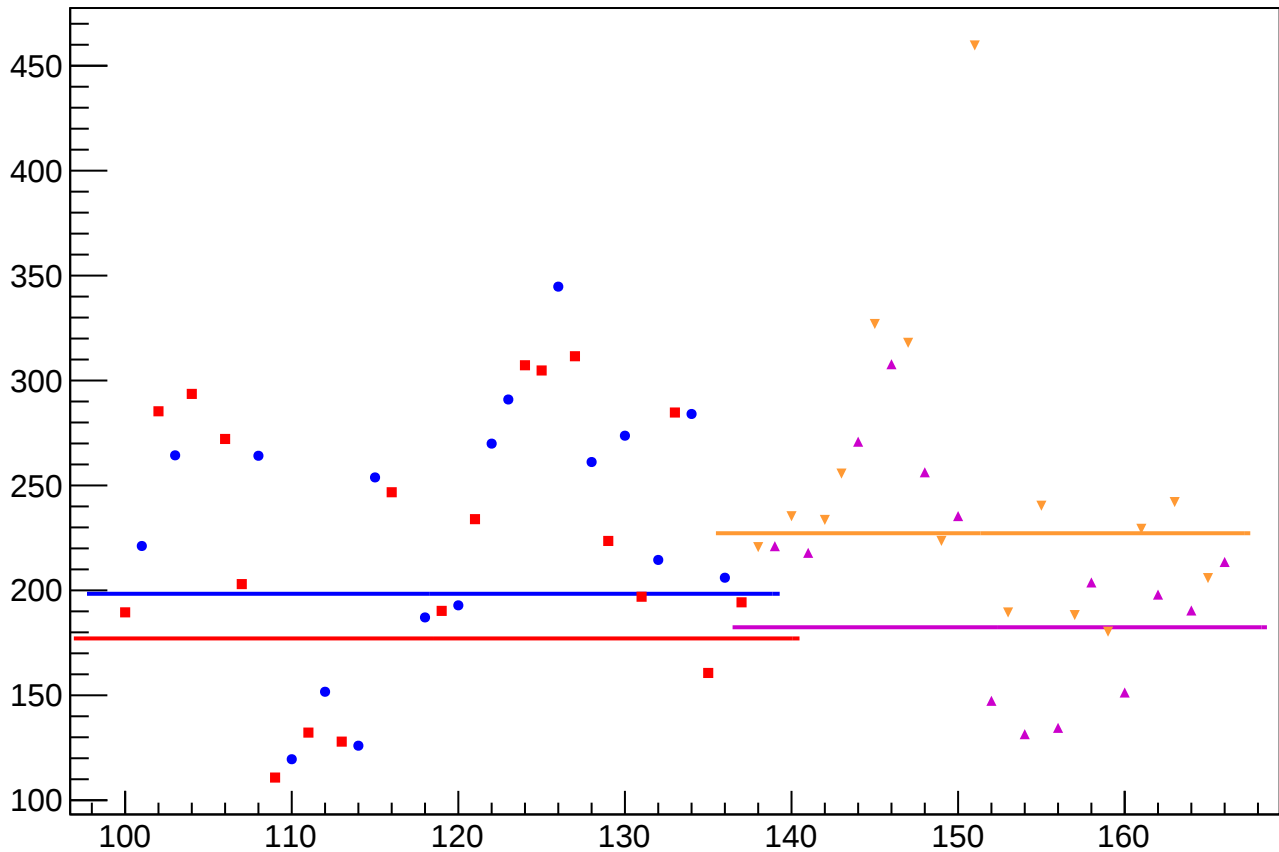
Right: 15.364+/-53.701 χ^2/NDF : 12.3/35

In: 54.034+/-47.589 χ^2/NDF : 12.5/30

Out: 4.753+/-50.413 χ^2/NDF : 9.3/33

All: 30.812+/-34.606 χ^2/NDF : 22.3/64

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378 $\pm$ 0.057 χ^2 /NDF: 963672.6/16

Left Out: 227.228 $\pm$ 0.050 χ^2 /NDF: 923995.2/14

Right Out: 177.096 $\pm$ 0.051 χ^2 /NDF: 1524763.6/18

Left In: 182.422 $\pm$ 0.042 χ^2 /NDF: 1347491.9/13

Left: 200.762 $\pm$ 0.032 χ^2 /NDF: 2745477.8/28

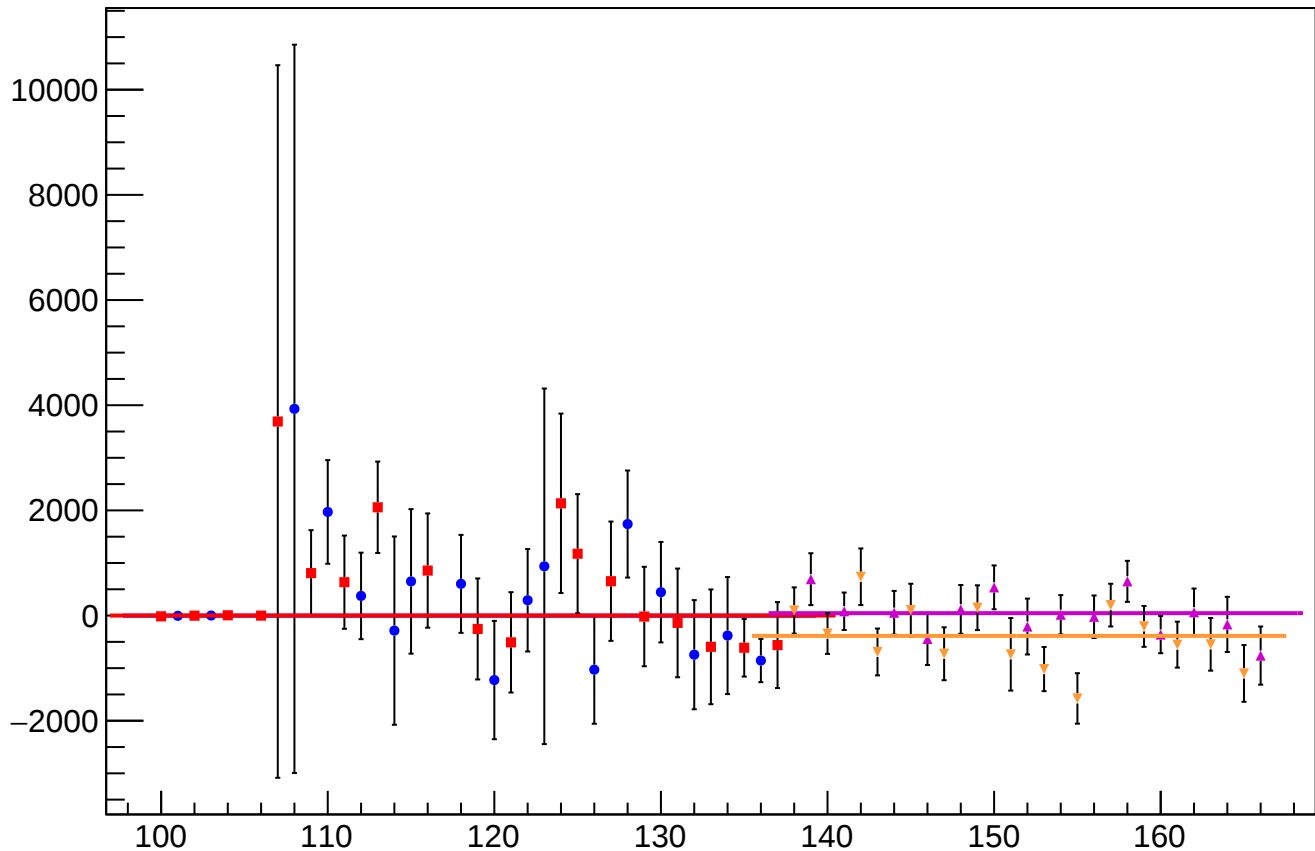
Right: 186.495 $\pm$ 0.038 χ^2 /NDF: 2565896.1/35

In: 187.956 $\pm$ 0.034 χ^2 /NDF: 2362096.6/30

Out: 202.559 $\pm$ 0.036 χ^2 /NDF: 2943083.1/33

All: 194.837 $\pm$ 0.024 χ^2 /NDF: 5393918.1/64

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: 45.890 ± 115.096 χ^2/NDF : 10.4/13

Left: -164.017 ± 82.562 χ^2/NDF : 39.2/28

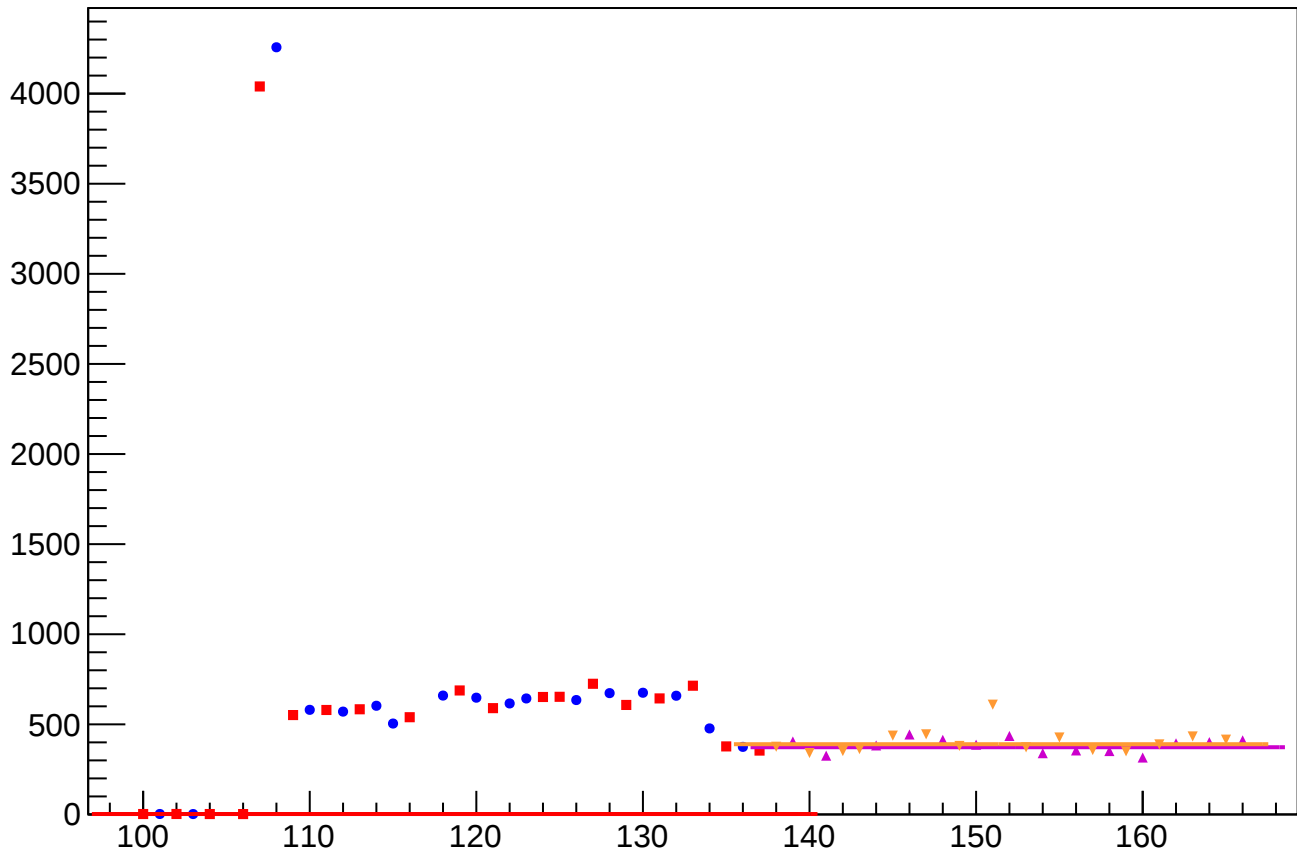
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.511 ± 2.251 χ^2/NDF : 27.5/30

Out: 0.604 ± 2.111 χ^2/NDF : 52.0/33

All: -0.386 ± 1.540 χ^2/NDF : 80.0/64

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: 373.065+/-0.081 χ^2/NDF : 228252.8/13

Left: 381.205+/-0.058 χ^2/NDF : 613529.1/28

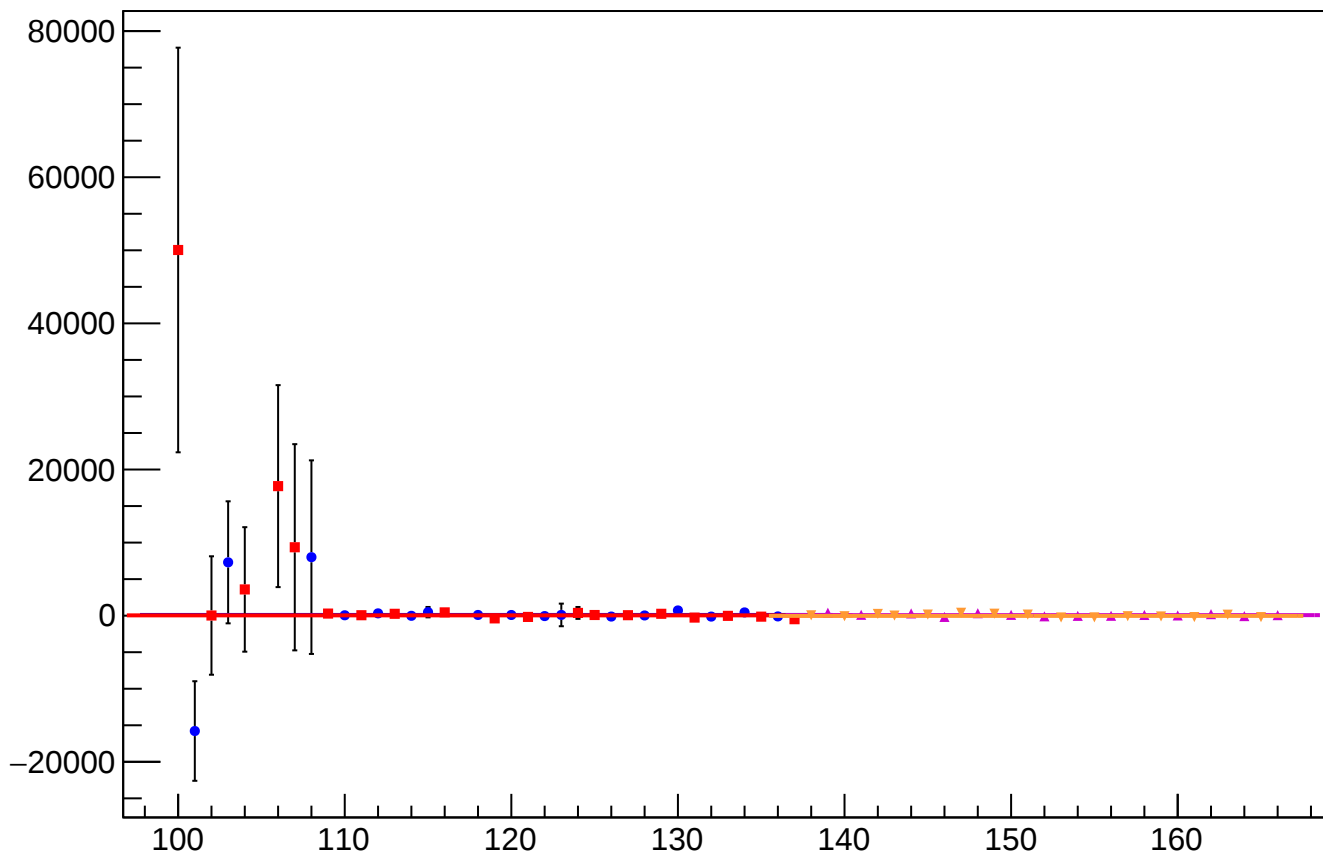
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.598+/-0.002 χ^2/NDF : 31804802.2/30

Out: 2.560+/-0.001 χ^2/NDF : 32880919.2/33

All: 2.578+/-0.001 χ^2/NDF : 64686036.8/64

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -27.889+/-74.023 χ^2/NDF : 5.9/14

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 72.601+/-62.545 χ^2/NDF : 5.1/13

Left: 30.742+/-47.775 χ^2/NDF : 12.2/28

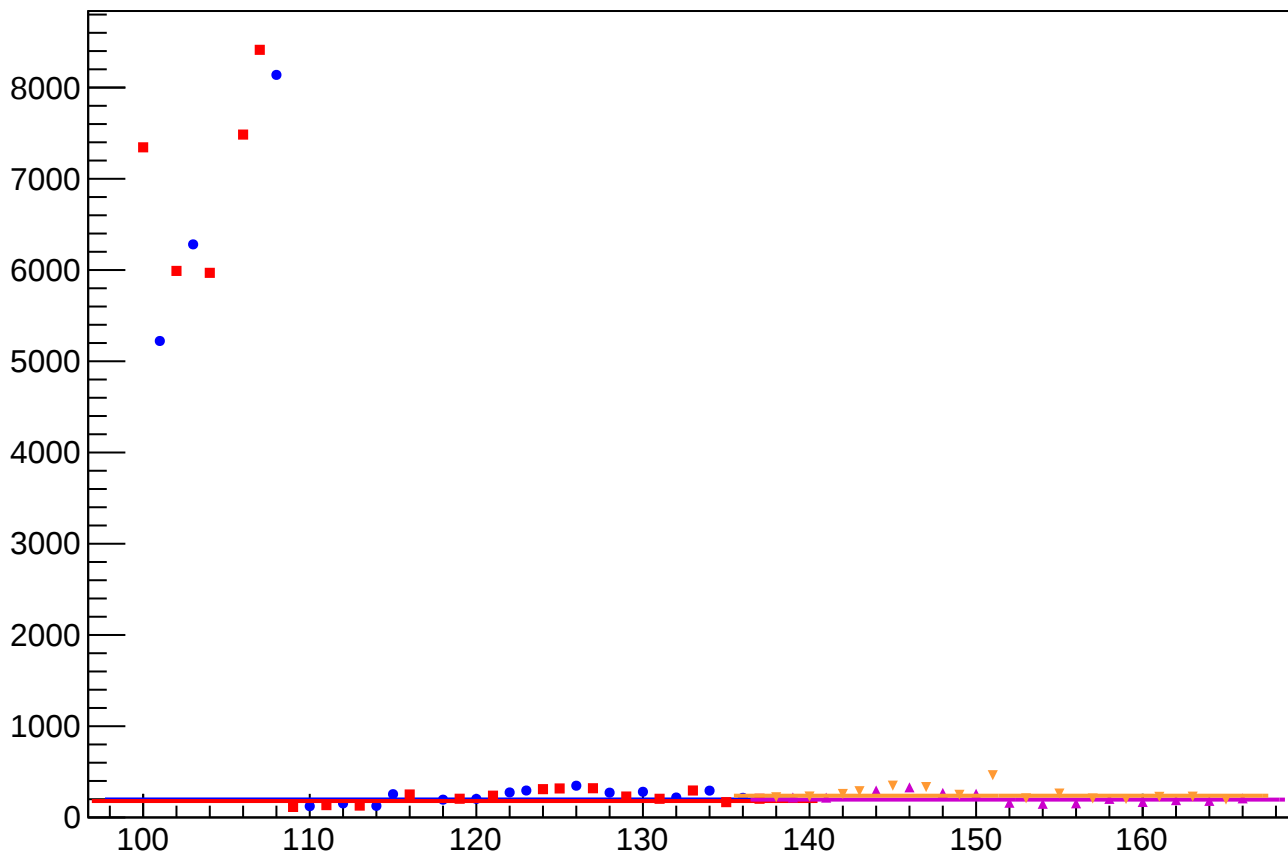
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 80.974+/-51.519 χ^2/NDF : 17.0/30

Out: 2.590+/-55.679 χ^2/NDF : 20.2/33

All: 44.819+/-37.815 χ^2/NDF : 38.4/64

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: 195.575+/-0.044 χ^2/NDF : 1063008.9/13

Left: 213.442+/-0.034 χ^2/NDF : 2339397.3/28

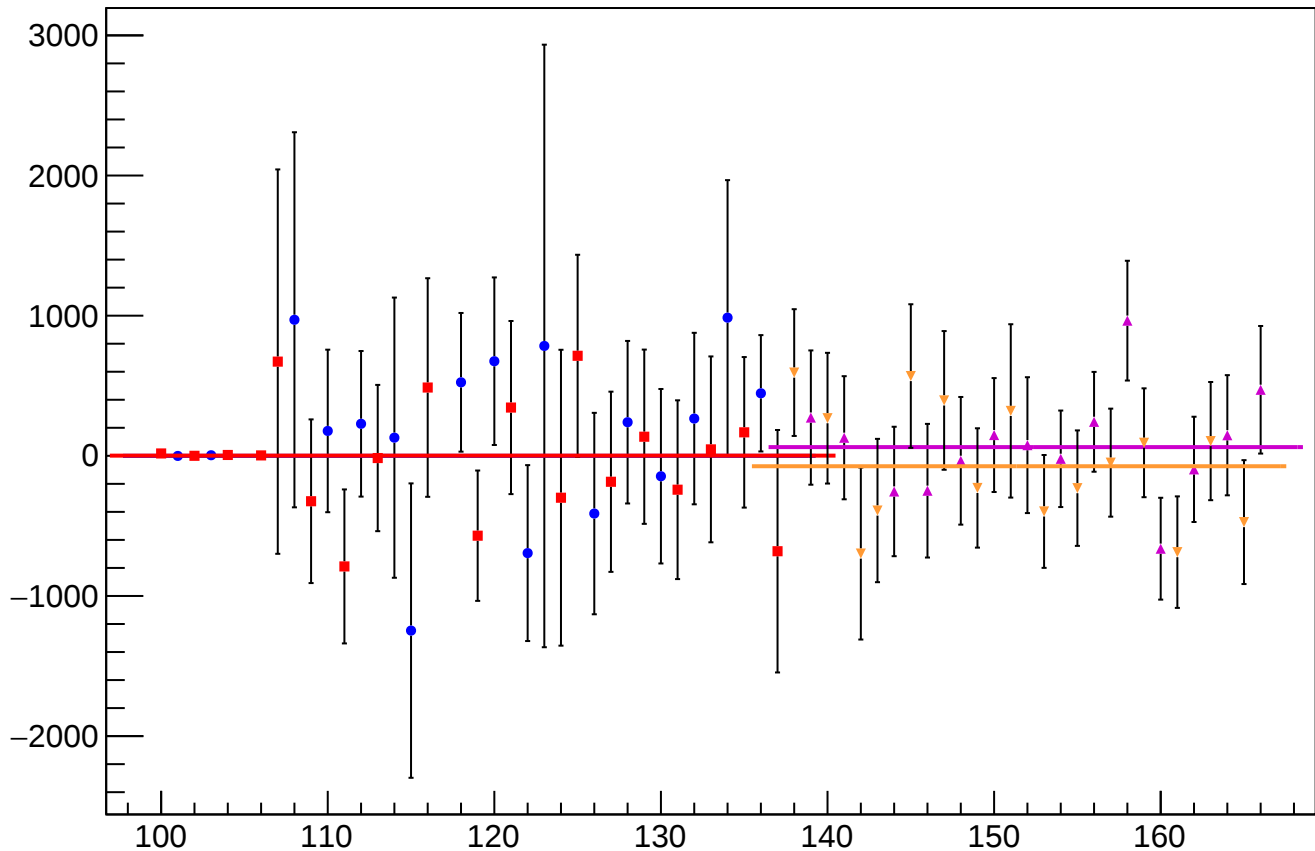
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.061+/-0.036 χ^2/NDF : 4756997.9/30

Out: 213.058+/-0.039 χ^2/NDF : 5748497.3/33

All: 203.901+/-0.027 χ^2/NDF : 10605905.6/64

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 $\pm$ 1.737 χ^2/NDF : 9.7/16

Left Out: -74.338 $\pm$ 115.879 χ^2/NDF :11.5/14

Right Out: 1.323 $\pm$ 1.623 χ^2/NDF : 9.6/18

Left In: 62.195 $\pm$ 111.462 χ^2/NDF :11.0/13

Left: -3.420 $\pm$ 80.332 χ^2/NDF : 23.2/28

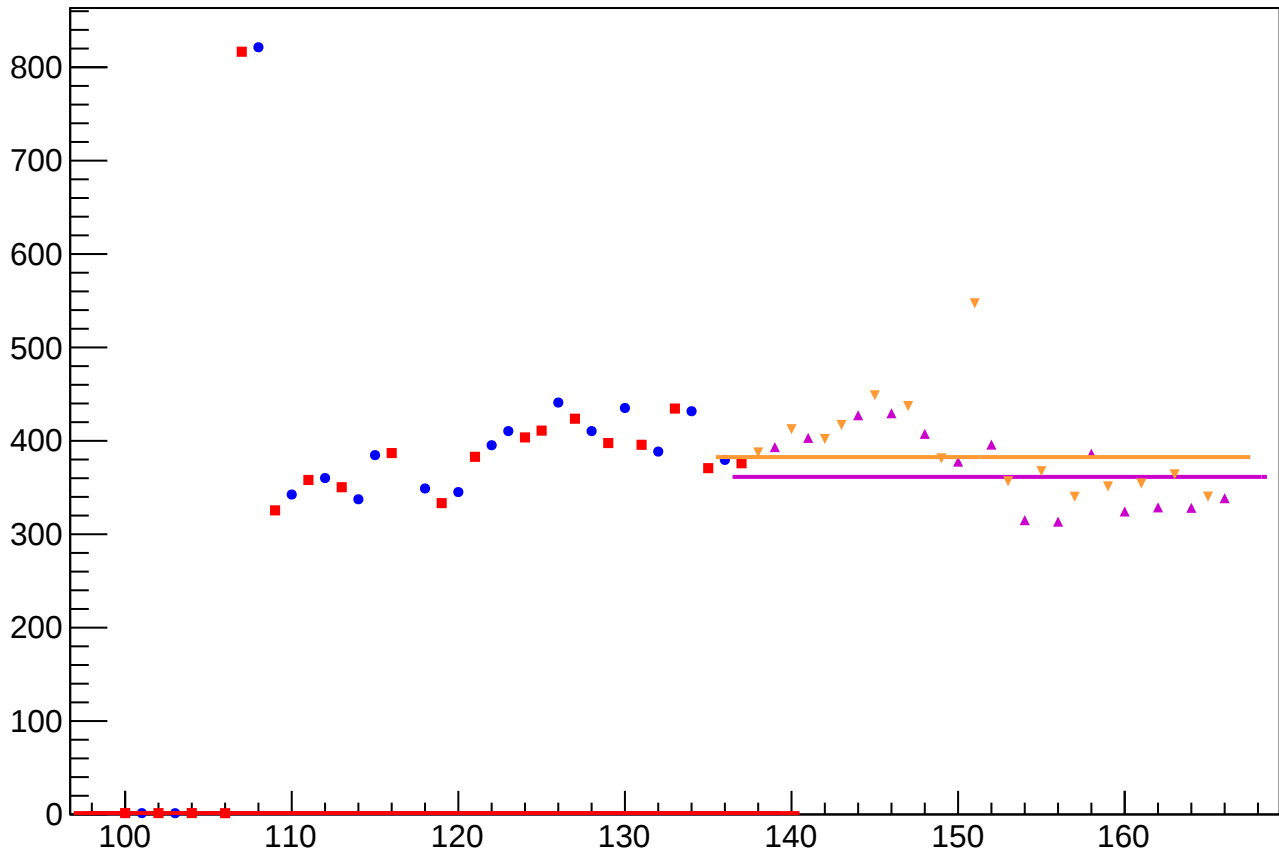
Right: 0.642 $\pm$ 1.186 χ^2/NDF : 19.7/35

In: -0.123 $\pm$ 1.736 χ^2/NDF :21.0/30

Out: 1.309 $\pm$ 1.622 χ^2/NDF :21.5/33

All: 0.641 $\pm$ 1.185 χ^2/NDF : 42.9/64

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453 $\pm$ 0.001 χ^2/NDF : 10957986.8/16

Left Out: 382.625 $\pm$ 0.082 χ^2/NDF :299654.3/14

Right Out: 1.451 $\pm$ 0.001 χ^2/NDF : 10880737.7/18

Left In: 361.407 $\pm$ 0.079 χ^2/NDF :274515.4/13

Left: 371.604 $\pm$ 0.057 χ^2/NDF : 608998.6/28

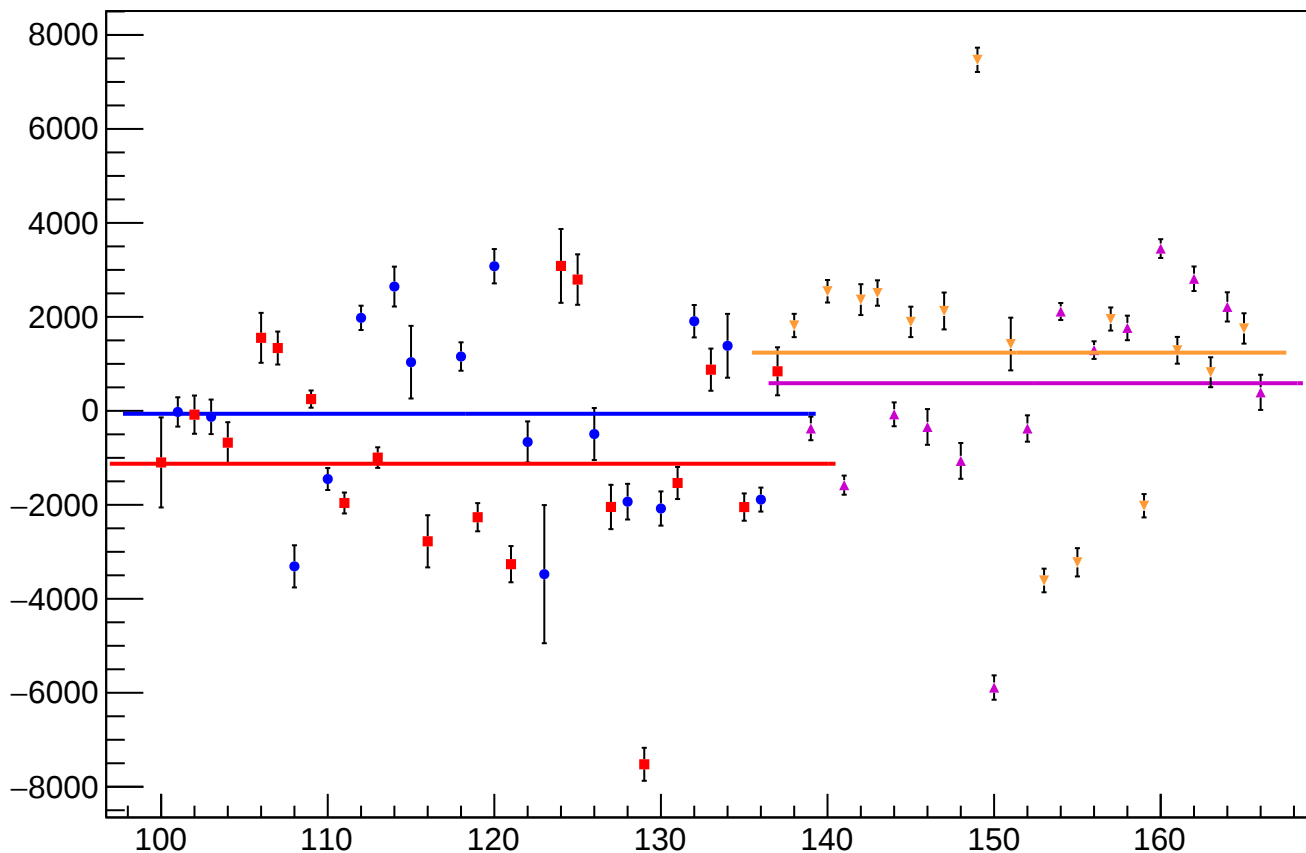
Right: 1.452 $\pm$ 0.001 χ^2/NDF : 21838725.6/35

In: 1.540 $\pm$ 0.001 χ^2/NDF :32085222.2/30

Out: 1.526 $\pm$ 0.001 χ^2/NDF :32816622.5/33

All: 1.532 $\pm$ 0.001 χ^2/NDF : 64901918.2/64

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 $\pm$ 87.424 χ^2/NDF : 433.9/16

Left Out: 1239.278 $\pm$ 74.099 χ^2/NDF :1435.0/14

Right Out: -1125.437 $\pm$ 78.370 χ^2/NDF : 671.2/18

Left In: 588.405 $\pm$ 66.240 χ^2/NDF :1207.0/13

Left: 877.505 $\pm$ 49.385 χ^2/NDF : 2684.9/28

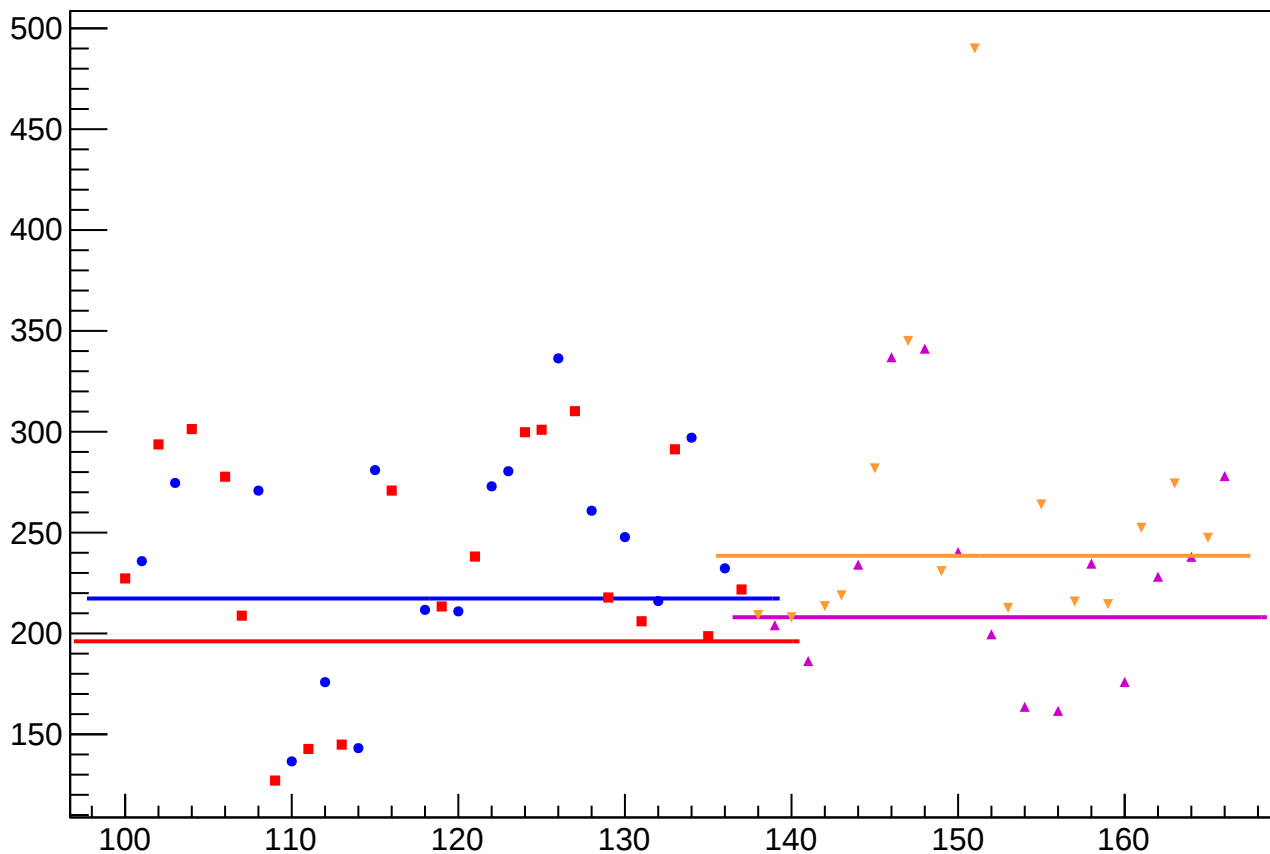
Right: -651.694 $\pm$ 58.355 χ^2/NDF : 1187.1/35

In: 351.134 $\pm$ 52.797 χ^2/NDF :1676.1/30

Out: 123.096 $\pm$ 53.843 χ^2/NDF :2586.9/33

All: 239.351 $\pm$ 37.697 χ^2/NDF : 4272.1/64

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 ± 0.062 $\chi^2/\text{NDF}: 652722.5/16$

Left Out: 238.499 ± 0.052 $\chi^2/\text{NDF}: 772192.0/14$

Right Out: 196.105 ± 0.055 $\chi^2/\text{NDF}: 1190733.6/18$

Left In: 208.056 ± 0.047 $\chi^2/\text{NDF}: 967127.1/13$

Left: 221.578 ± 0.035 $\chi^2/\text{NDF}: 1926965.7/28$

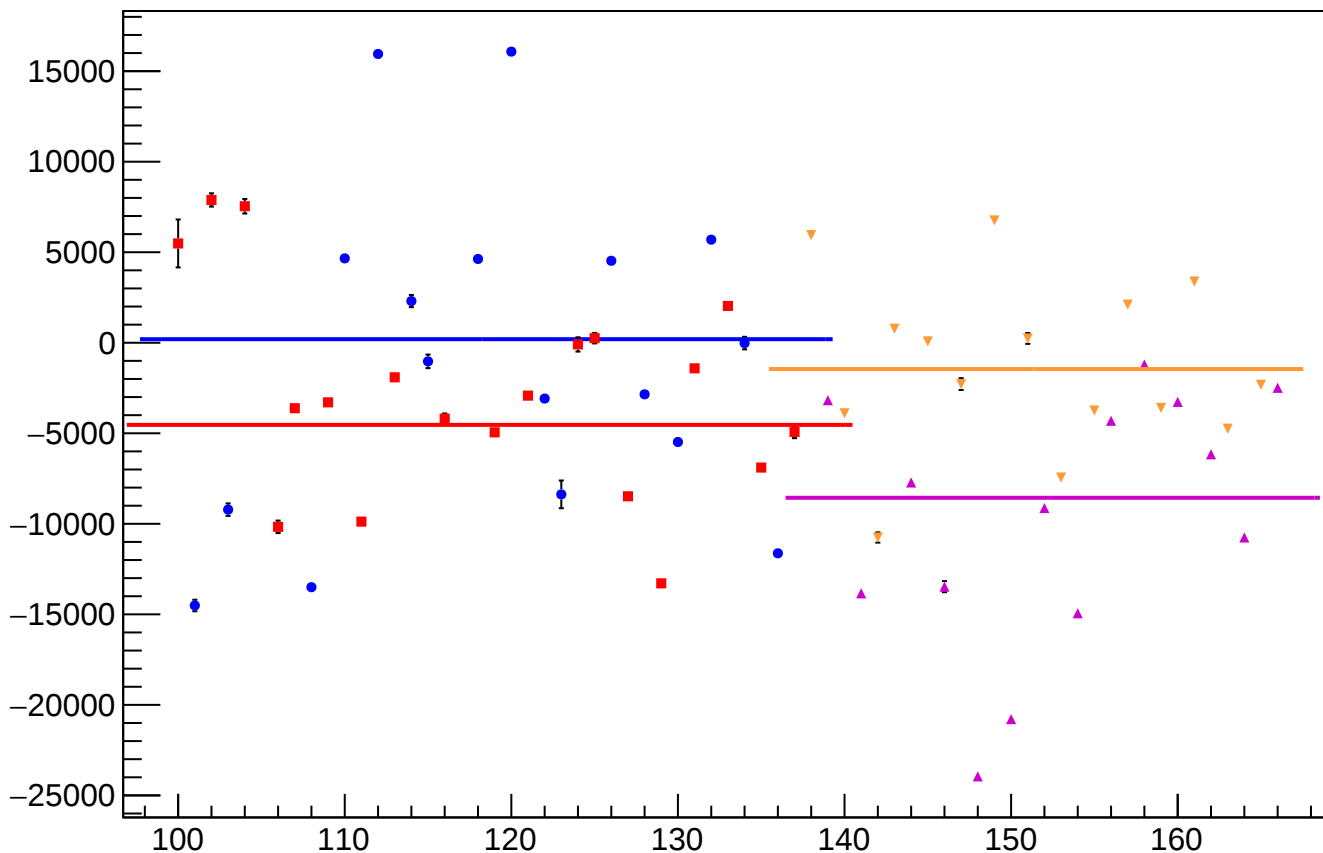
Right: 205.562 ± 0.041 $\chi^2/\text{NDF}: 1908816.5/35$

In: 211.438 ± 0.037 $\chi^2/\text{NDF}: 1634149.0/30$

Out: 218.489 ± 0.038 $\chi^2/\text{NDF}: 2271931.9/33$

All: 214.894 ± 0.027 $\chi^2/\text{NDF}: 3923565.3/64$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -1452.743+/-52.087 χ^2/NDF : 7587.7/14

Right Out: -4534.200+/-52.462 χ^2/NDF : 7477.2/18

Left In: -8561.623+/-53.501 χ^2/NDF : 14756.2/13

Left: -4911.970+/-37.321 χ^2/NDF : 31407.9/28

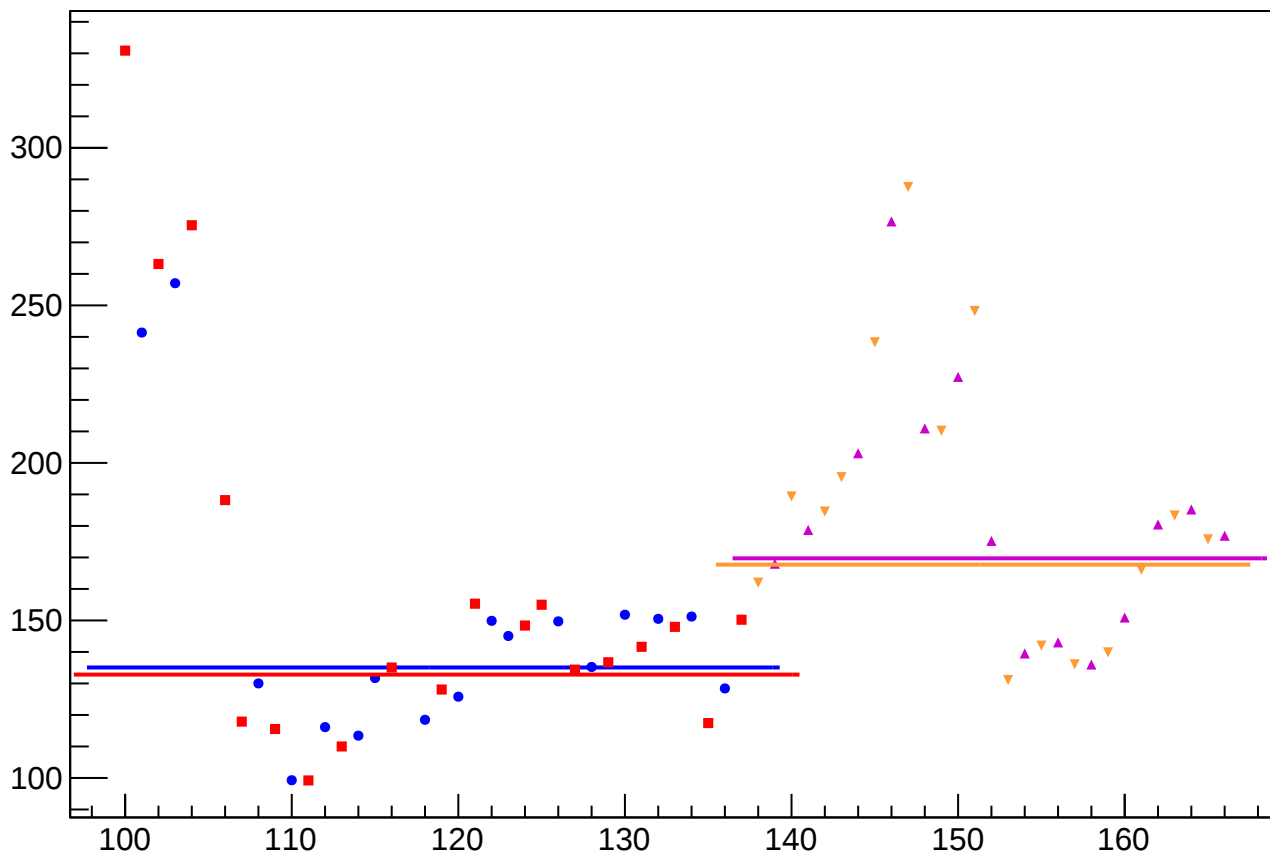
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4287.189+/-38.282 χ^2/NDF : 58493.8/30

Out: -2982.430+/-36.963 χ^2/NDF : 16802.3/33

All: -3611.949+/-26.591 χ^2/NDF : 75897.3/64

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: 169.710+/-0.038 χ^2/NDF :731116.7/13

Left: 168.687+/-0.026 χ^2/NDF : 1735876.6/28

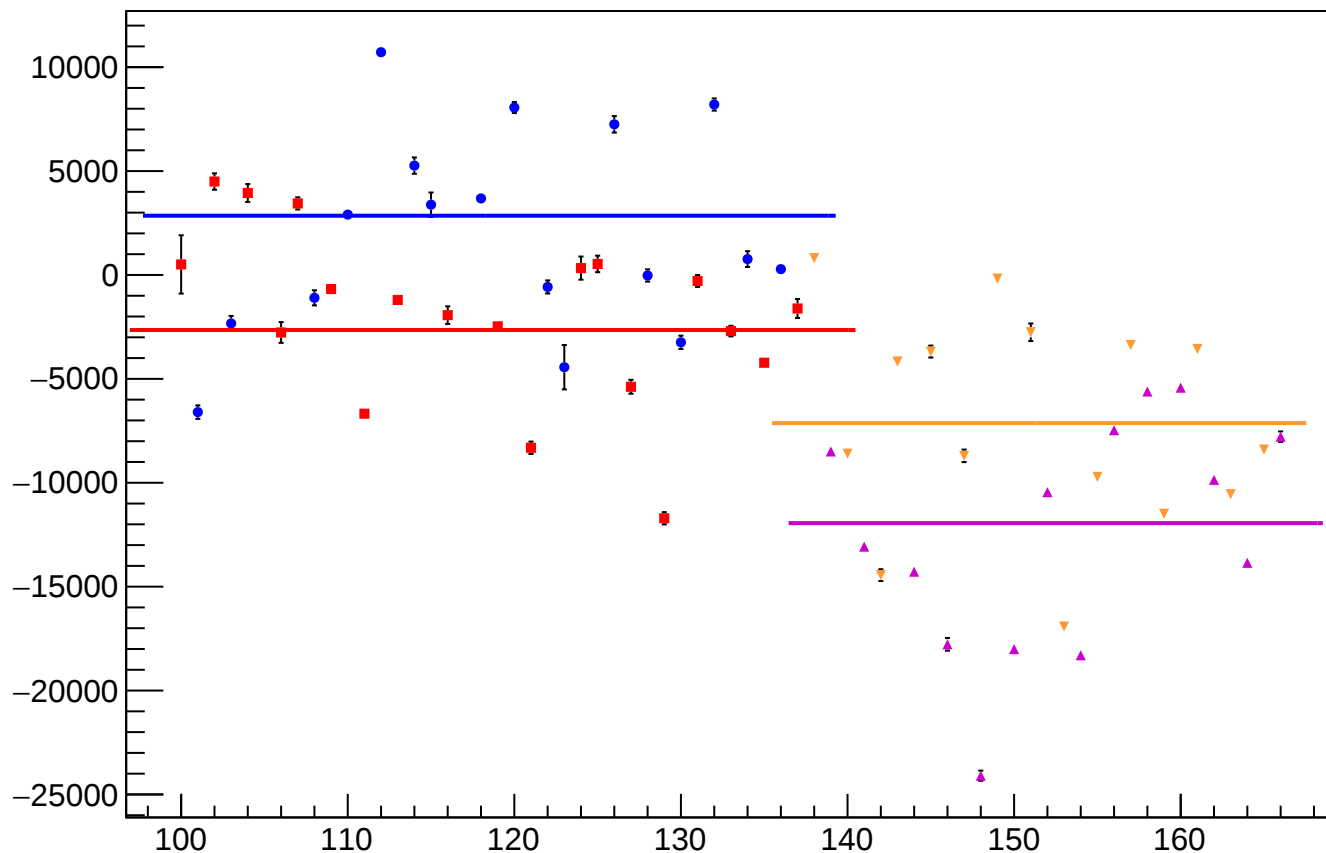
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 152.806+/-0.027 χ^2/NDF :1798947.3/30

Out: 150.392+/-0.026 χ^2/NDF :2280268.8/33

All: 151.556+/-0.019 χ^2/NDF : 4083332.5/64

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: -11942.145+/-53.752 χ^2/NDF : 9700.3/13

Left: -9780.961+/-39.906 χ^2/NDF : 20987.5/28

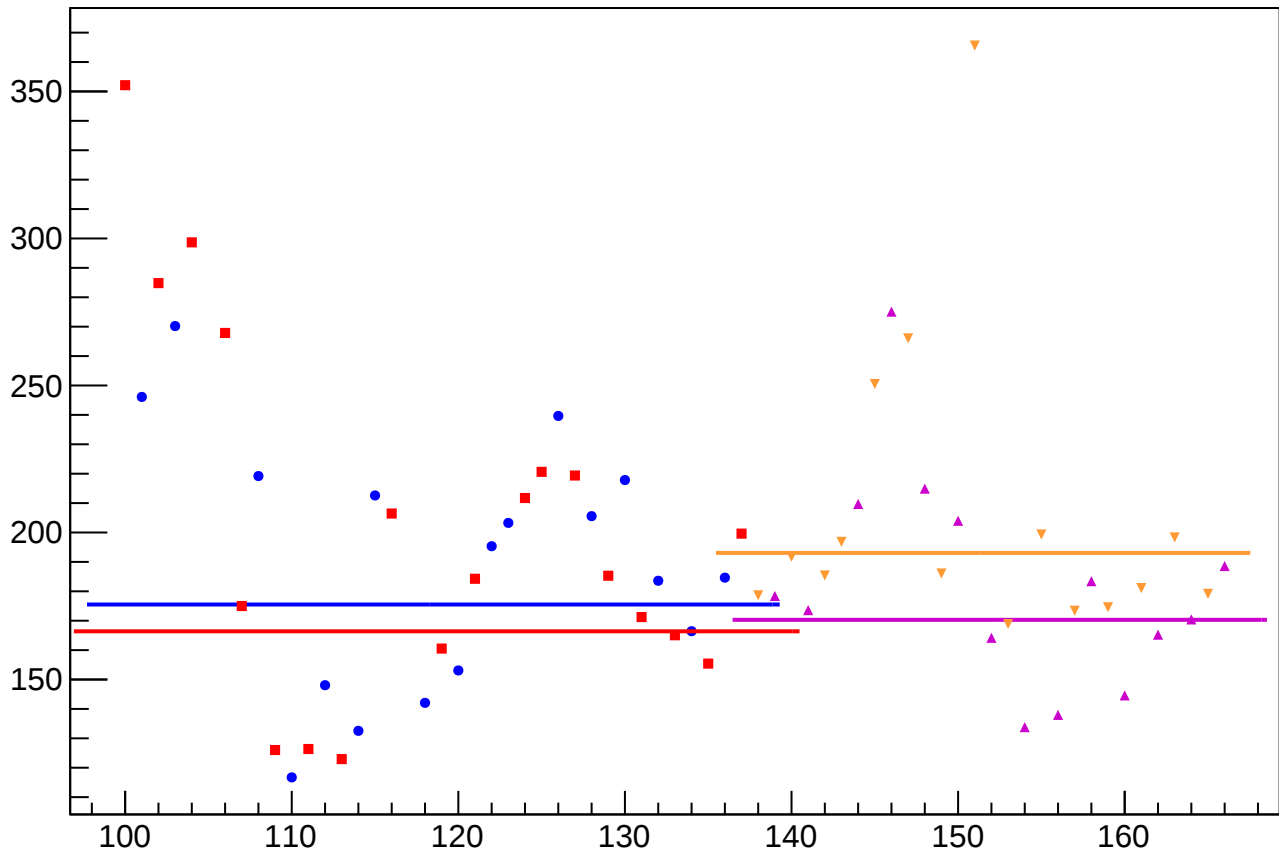
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6528.512+/-42.801 χ^2/NDF : 41597.6/30

Out: -5107.720+/-44.139 χ^2/NDF : 13409.0/33

All: -5839.974+/-30.727 χ^2/NDF : 55540.5/64

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: 170.300+/-0.038 χ^2/NDF : 686292.8/13

Left: 180.516+/-0.028 χ^2/NDF : 1475122.7/28

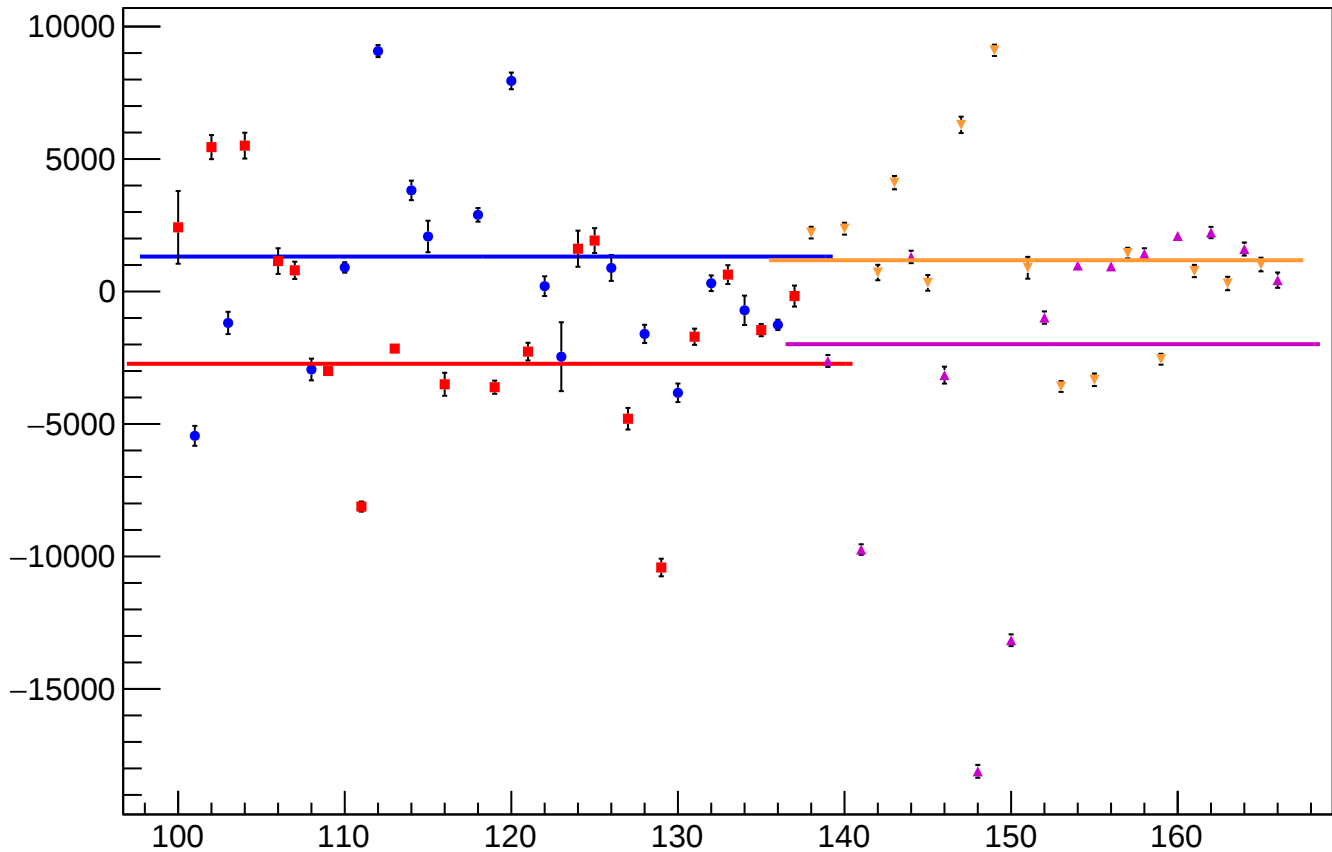
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 172.208+/-0.030 χ^2/NDF : 1382821.2/30

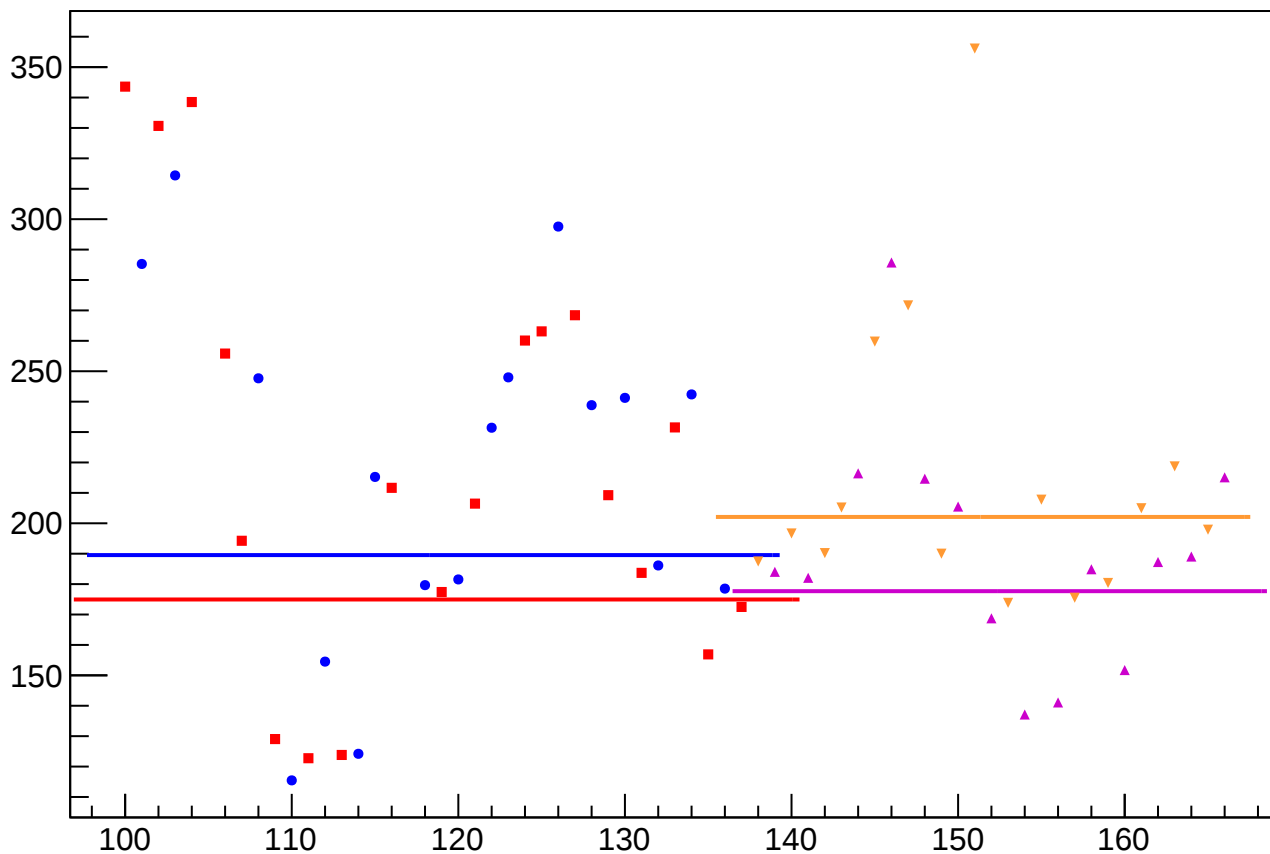
Out: 181.035+/-0.031 χ^2/NDF : 1738180.5/33

All: 176.486+/-0.022 χ^2/NDF : 3162225.4/64

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: 177.677 $\pm$ 0.040 χ^2 /NDF: 700581.7/13

Left: 188.614 $\pm$ 0.029 χ^2 /NDF: 1452907.7/28

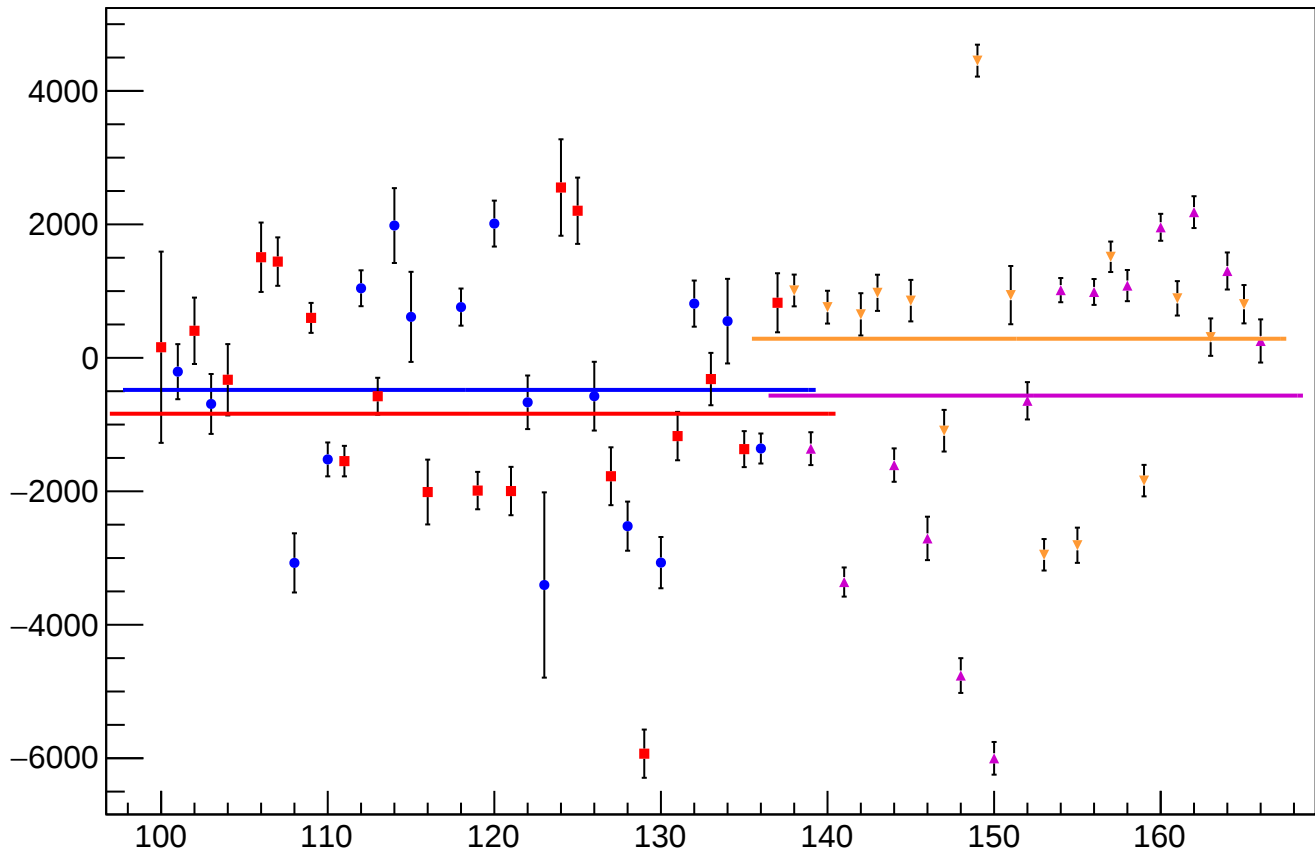
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 181.785 $\pm$ 0.032 χ^2 /NDF: 1712269.7/30

Out: 190.094 $\pm$ 0.033 χ^2 /NDF: 2047707.9/33

All: 185.835 $\pm$ 0.023 χ^2 /NDF: 3792639.0/64

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: -565.851±/63.631 χ^2/NDF :1516.8/13

Left: -173.777±/46.757 χ^2/NDF : 2393.1/28

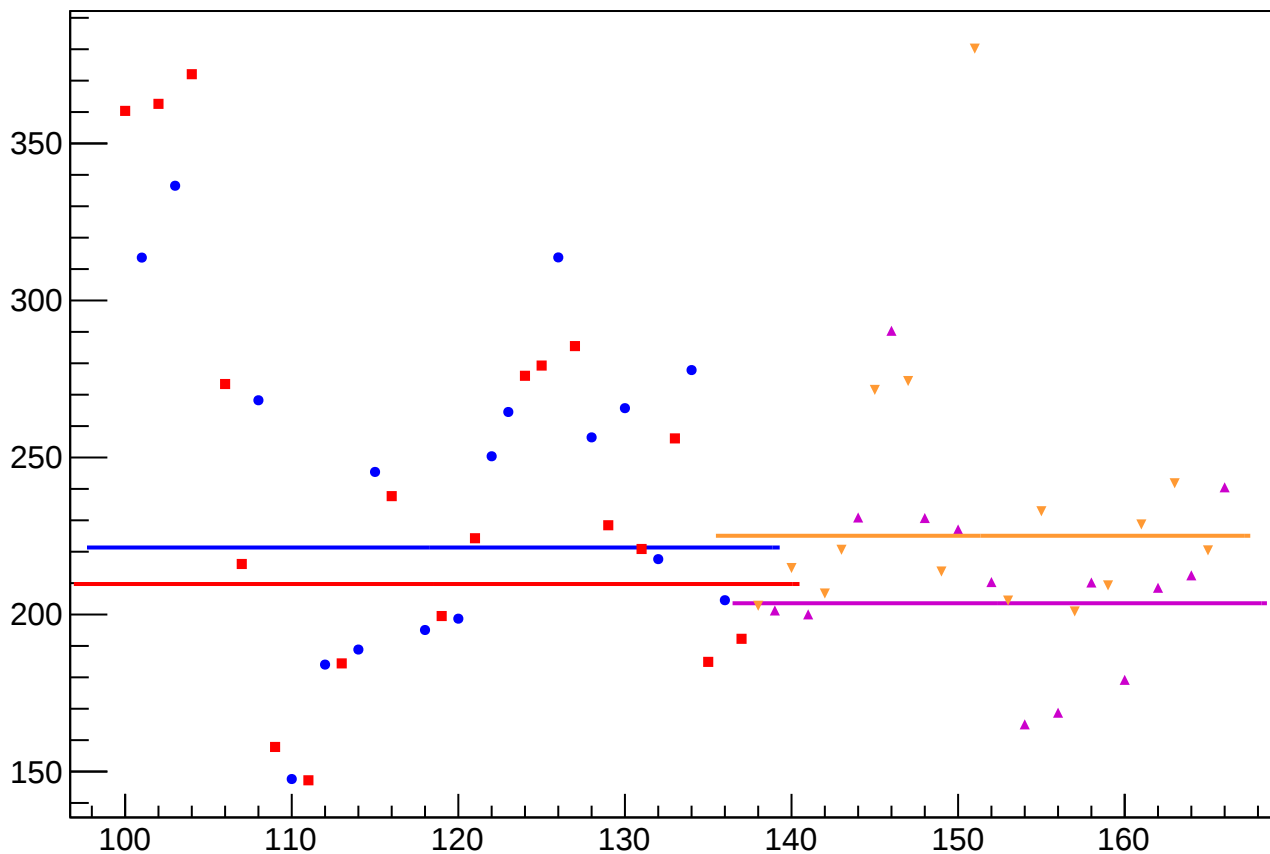
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -536.852±/51.691 χ^2/NDF :1808.1/30

Out: -177.359±/52.831 χ^2/NDF :1338.8/33

All: -361.026±/36.948 χ^2/NDF : 3170.5/64

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 ± 0.063 χ^2/NDF : 645688.1/16

Left Out: 225.080 ± 0.049 χ^2/NDF : 436424.1/14

Right Out: 209.717 ± 0.058 χ^2/NDF : 883917.7/18

Left In: 203.590 ± 0.045 χ^2/NDF : 422645.2/13

Left: 213.477 ± 0.033 χ^2/NDF : 964013.2/28

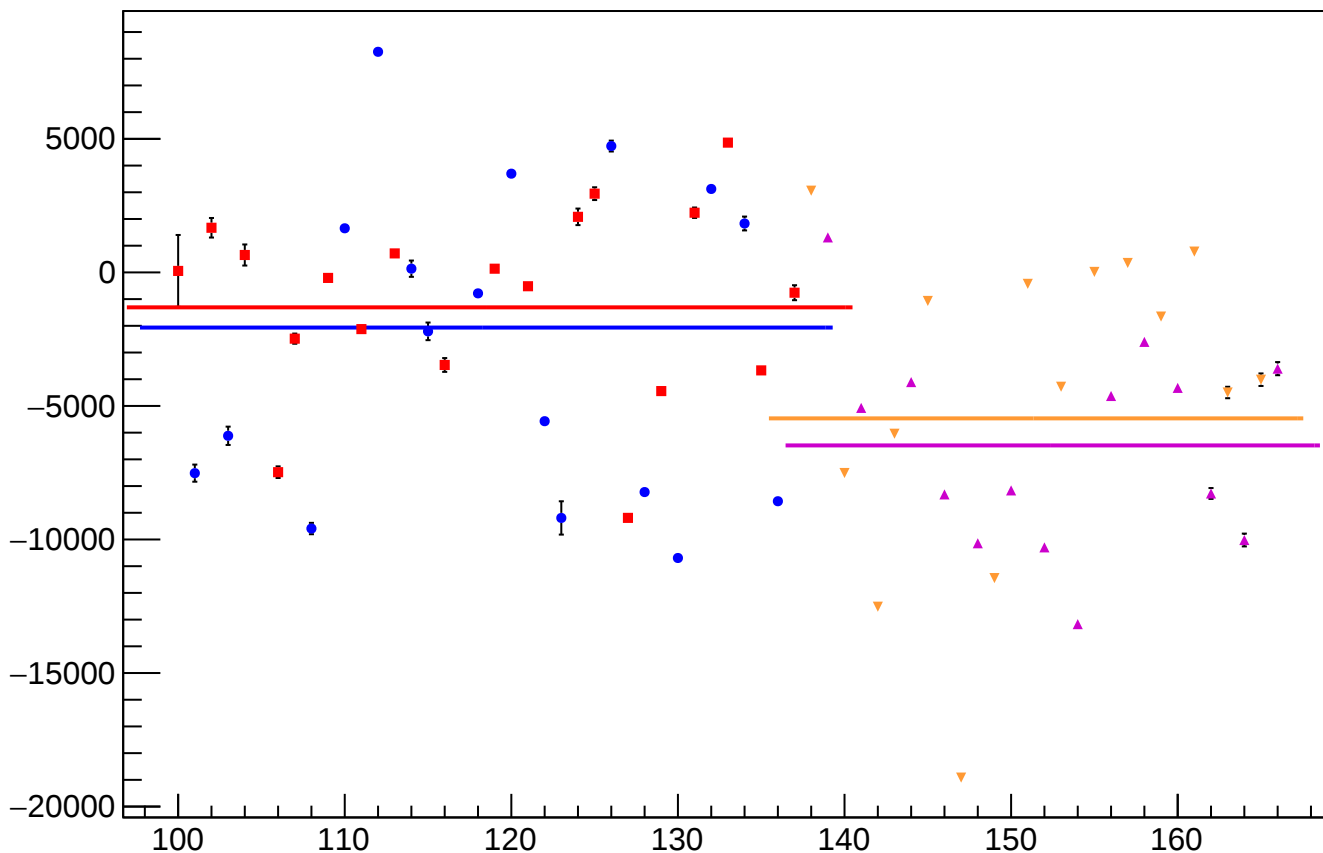
Right: 215.095 ± 0.043 χ^2/NDF : 1548093.3/35

In: 209.627 ± 0.037 χ^2/NDF : 1121268.5/30

Out: 218.740 ± 0.037 χ^2/NDF : 1361334.5/33

All: 214.084 ± 0.026 χ^2/NDF : 2513006.0/64

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: -6478.135+/-38.921 χ^2/NDF : 9102.2/13

Left: -5959.373+/-27.179 χ^2/NDF : 37649.9/28

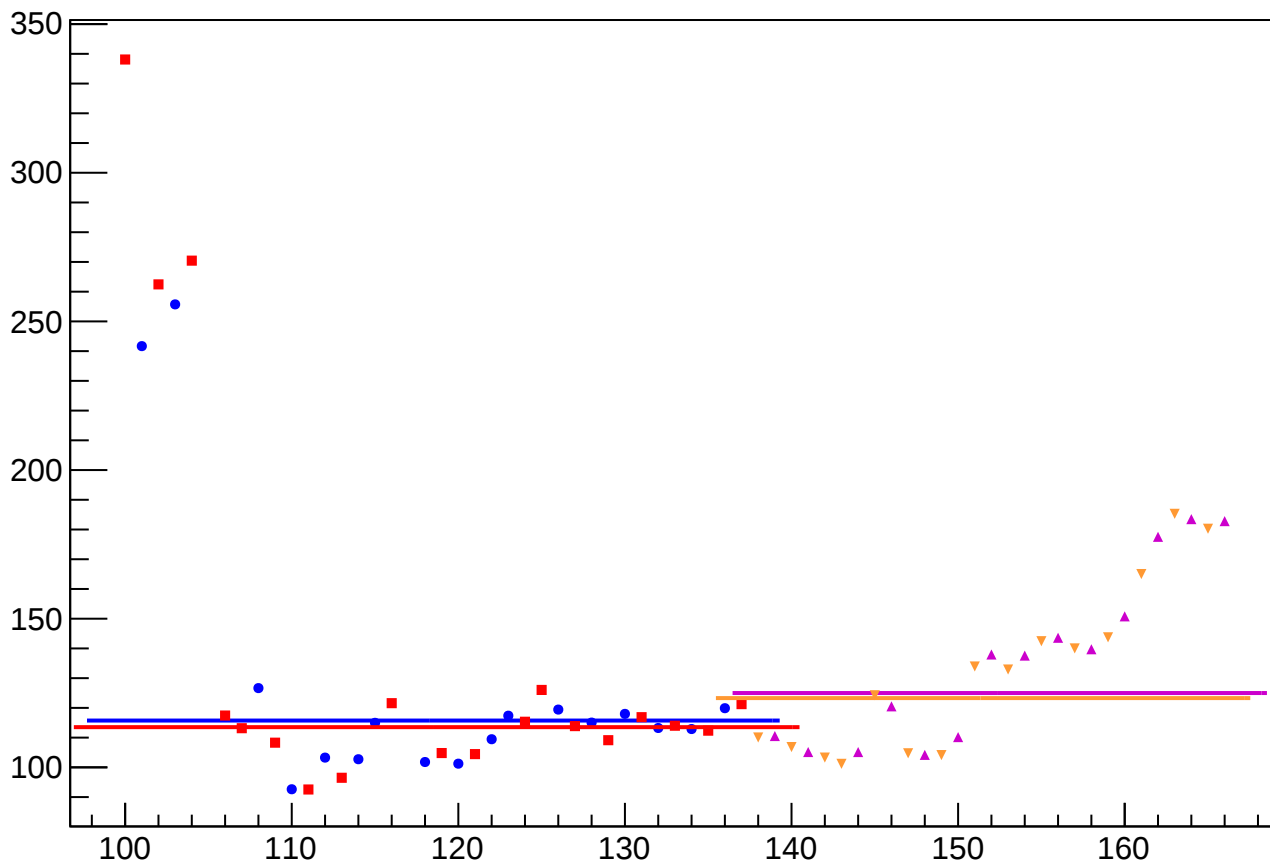
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4697.470+/-30.060 χ^2/NDF : 30822.8/30

Out: -3736.802+/-29.020 χ^2/NDF : 39080.2/33

All: -4200.236+/-20.878 χ^2/NDF : 70431.6/64

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 123.295+/-0.027 χ^2/NDF : 738157.9/14

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 124.997+/-0.028 χ^2/NDF : 718192.0/13

Left: 124.125+/-0.019 χ^2/NDF : 1458310.5/28

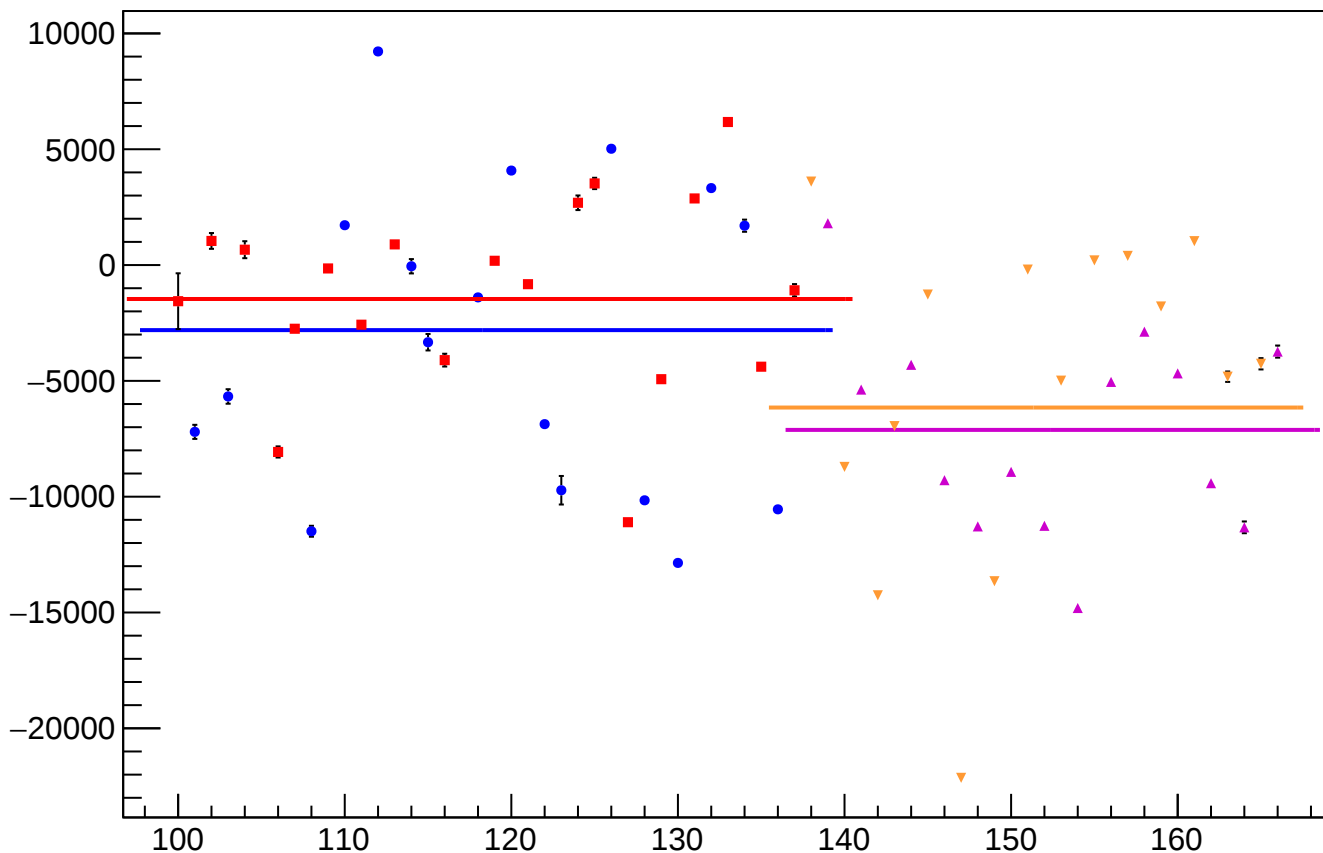
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 121.262+/-0.021 χ^2/NDF : 1507859.2/30

Out: 119.229+/-0.021 χ^2/NDF : 1589930.7/33

All: 120.210+/-0.015 χ^2/NDF : 3102523.8/64

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: -7116.578+/-41.332 χ^2/NDF : 10756.6/13

Left: -6621.795+/-28.856 χ^2/NDF : 45100.3/28

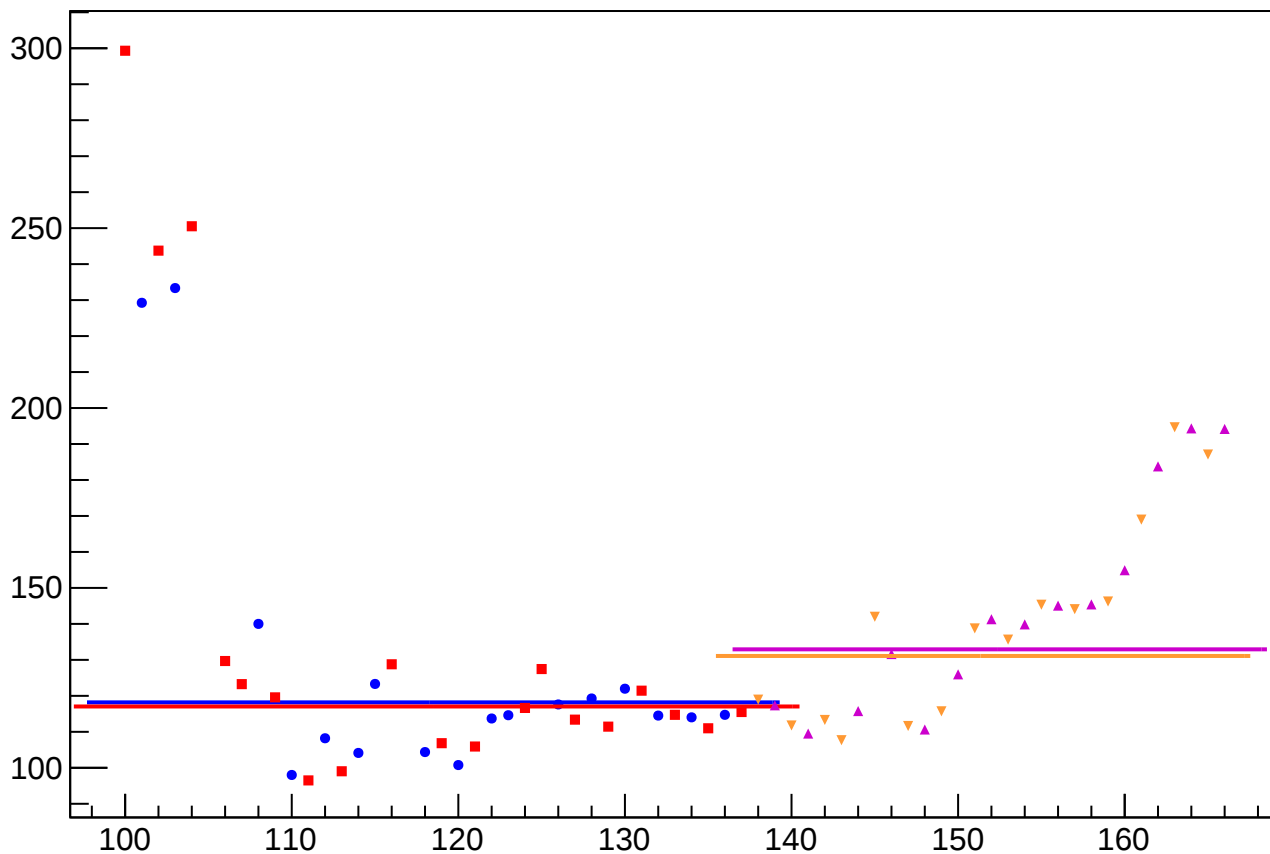
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5295.035+/-31.399 χ^2/NDF : 36612.7/30

Out: -4135.631+/-30.427 χ^2/NDF : 47883.1/33

All: -4697.113+/-21.851 χ^2/NDF : 85199.0/64

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2 /NDF: 636252.0/16

Left Out: 131.086 $\pm$ 0.029 χ^2 /NDF: 618440.9/14

Right Out: 117.046 $\pm$ 0.033 χ^2 /NDF: 690635.5/18

Left In: 132.927 $\pm$ 0.029 χ^2 /NDF: 611388.4/13

Left: 131.983 $\pm$ 0.020 χ^2 /NDF: 1231864.0/28

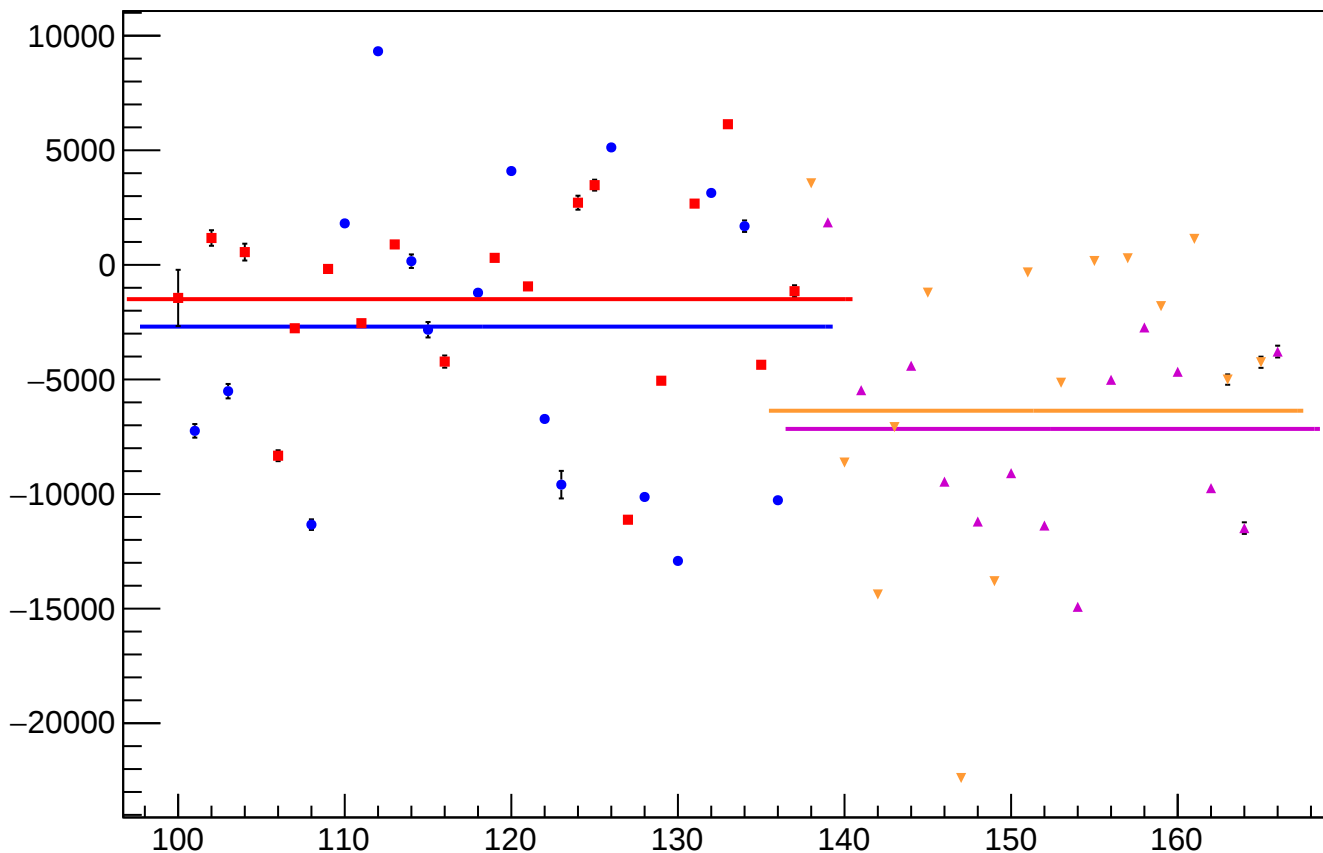
Right: 117.594 $\pm$ 0.024 χ^2 /NDF: 1327469.8/35

In: 126.694 $\pm$ 0.022 χ^2 /NDF: 1355193.1/30

Out: 125.047 $\pm$ 0.022 χ^2 /NDF: 1413460.2/33

All: 125.845 $\pm$ 0.015 χ^2 /NDF: 2771493.3/64

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -6364.445+/-39.334 χ^2/NDF : 37242.8/14

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -7157.614+/-40.253 χ^2/NDF : 11588.1/13

Left: -6751.869+/-28.133 χ^2/NDF : 49029.5/28

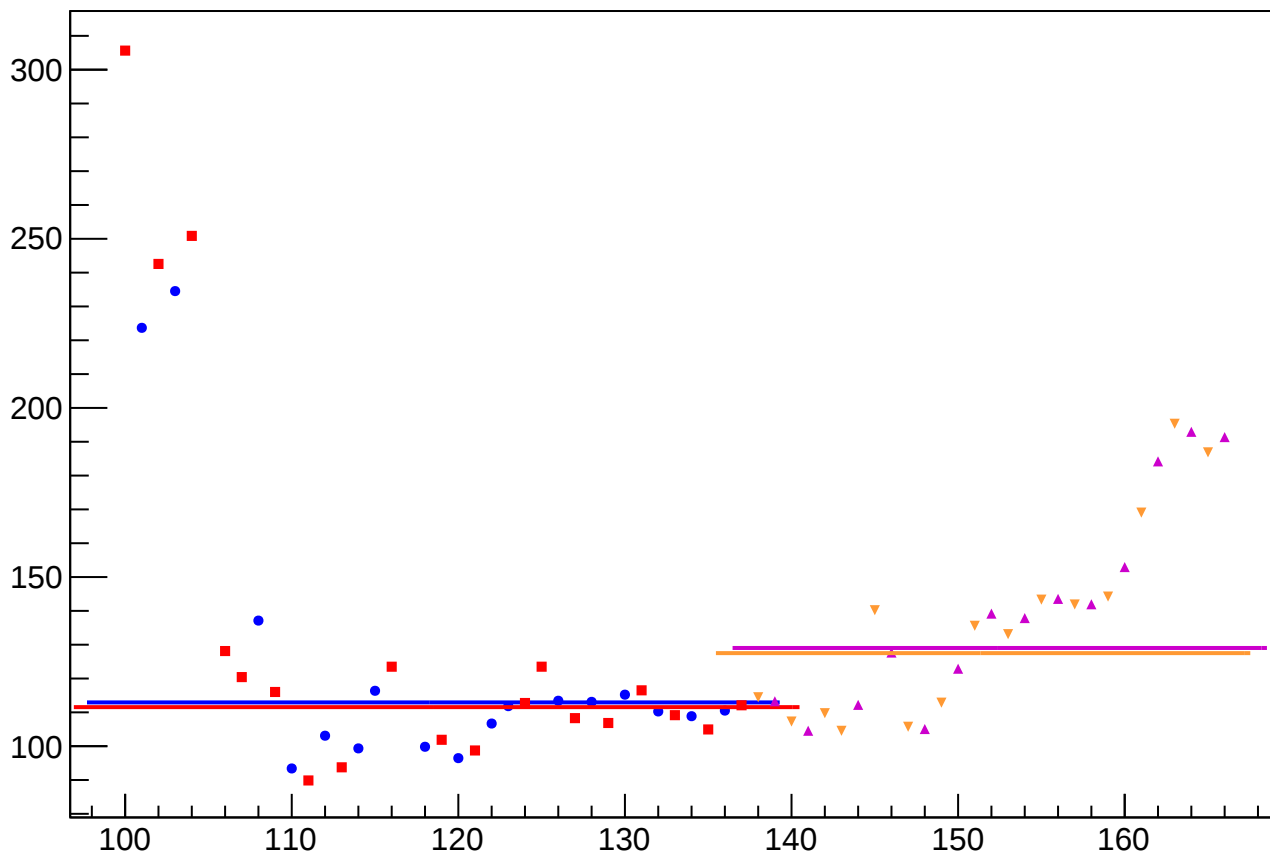
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -5238.454+/-30.391 χ^2/NDF : 39734.9/30

Out: -4225.988+/-29.455 χ^2/NDF : 52689.3/33

All: -4716.392+/-21.151 χ^2/NDF : 92996.4/64

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: 129.033 $\pm$ 0.028 χ^2 /NDF: 703267.4/13

Left: 128.254 $\pm$ 0.020 χ^2 /NDF: 1420245.7/28

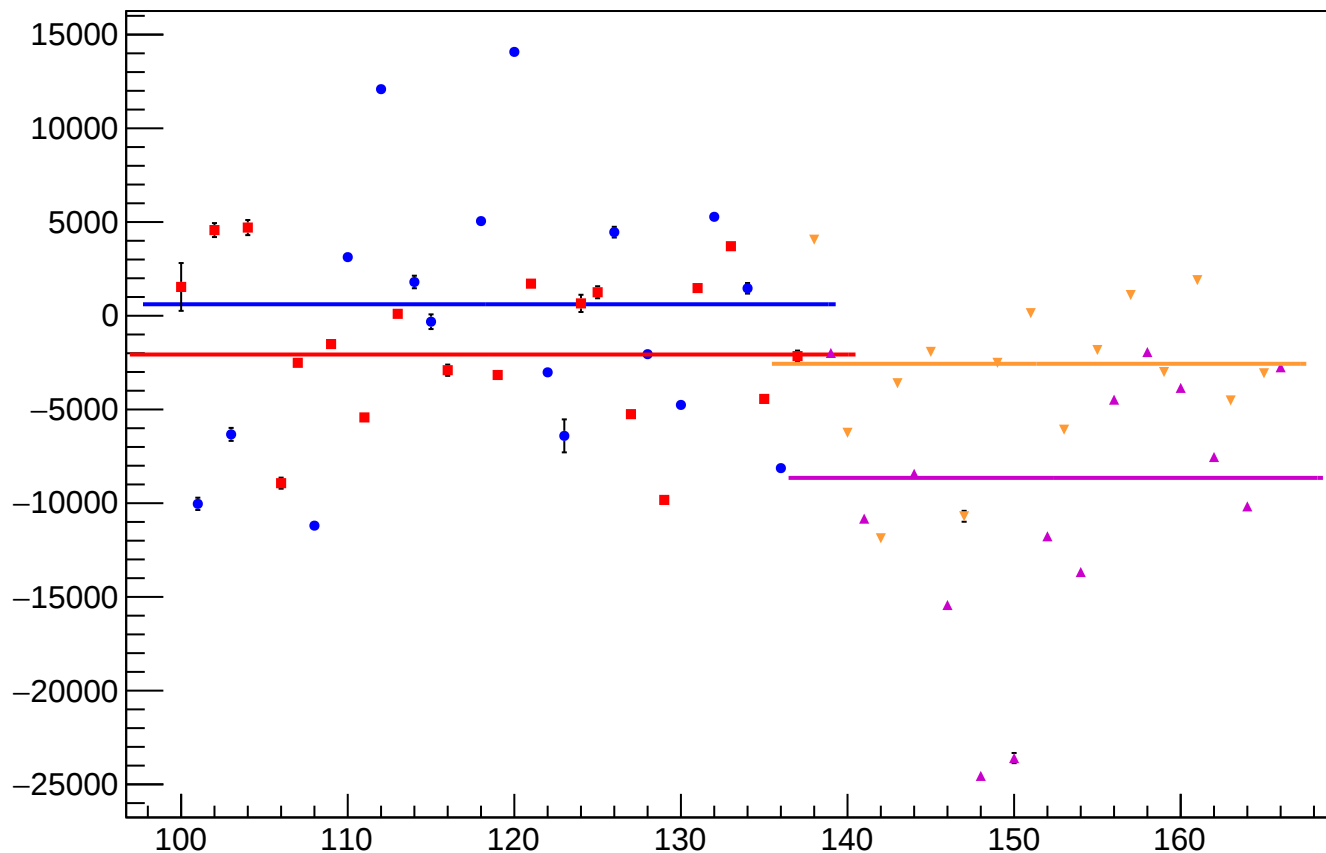
Right: 112.213 $\pm$ 0.023 χ^2 /NDF: 1446732.2/35

In: 122.113 $\pm$ 0.021 χ^2 /NDF: 1520987.5/30

Out: 120.498 $\pm$ 0.021 χ^2 /NDF: 1625776.3/33

All: 121.280 $\pm$ 0.015 χ^2 /NDF: 3149678.5/64

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: -8649.654 ± 49.722 $\chi^2/\text{NDF}: 14586.4/13$

Left: -5467.352 ± 34.348 $\chi^2/\text{NDF}: 29163.2/28$

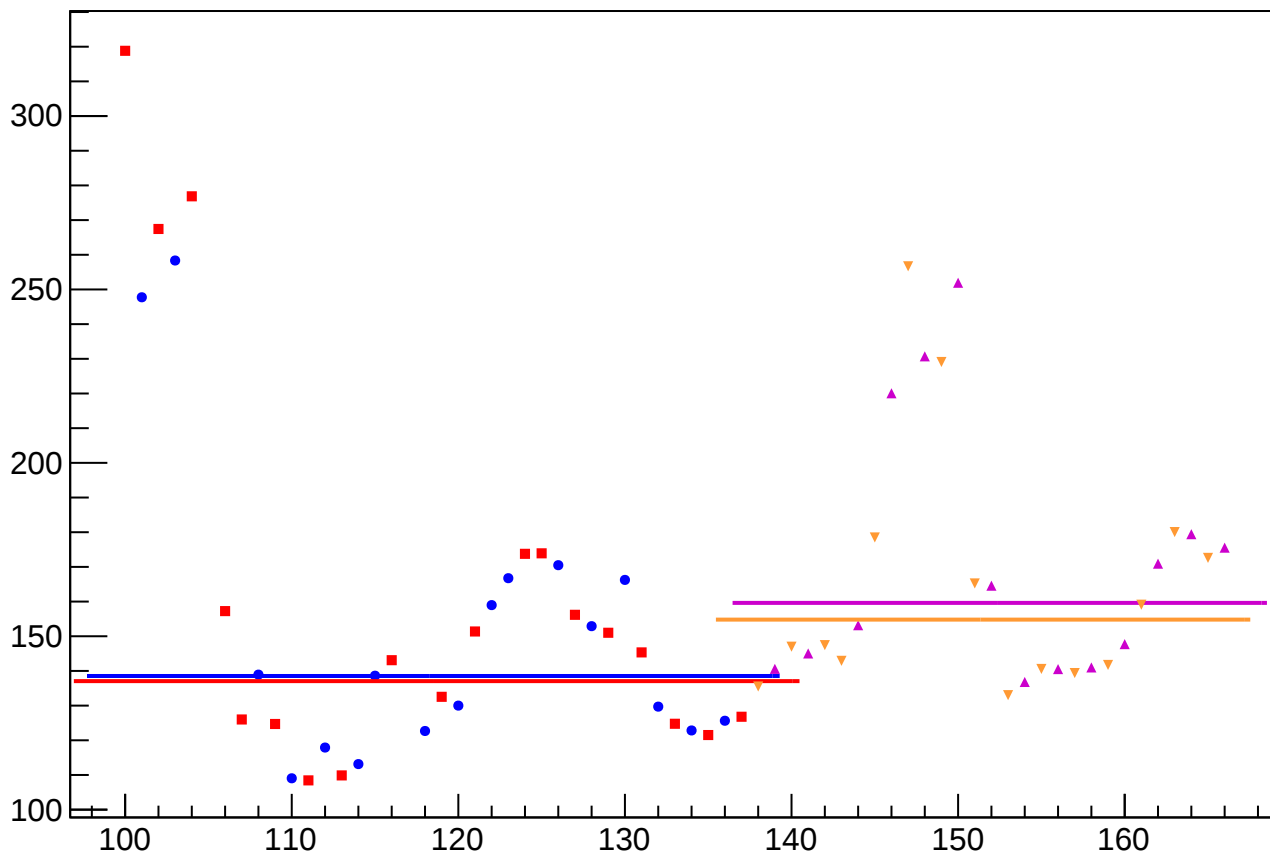
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4571.604 ± 37.199 $\chi^2/\text{NDF}: 48107.9/30$

Out: -2346.176 ± 35.648 $\chi^2/\text{NDF}: 11431.7/33$

All: -3411.516 ± 25.738 $\chi^2/\text{NDF}: 61405.2/64$

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: 159.621 $\pm$ 0.035 χ^2 /NDF: 689497.2/13

Left: 157.100 $\pm$ 0.024 χ^2 /NDF: 1324008.7/28

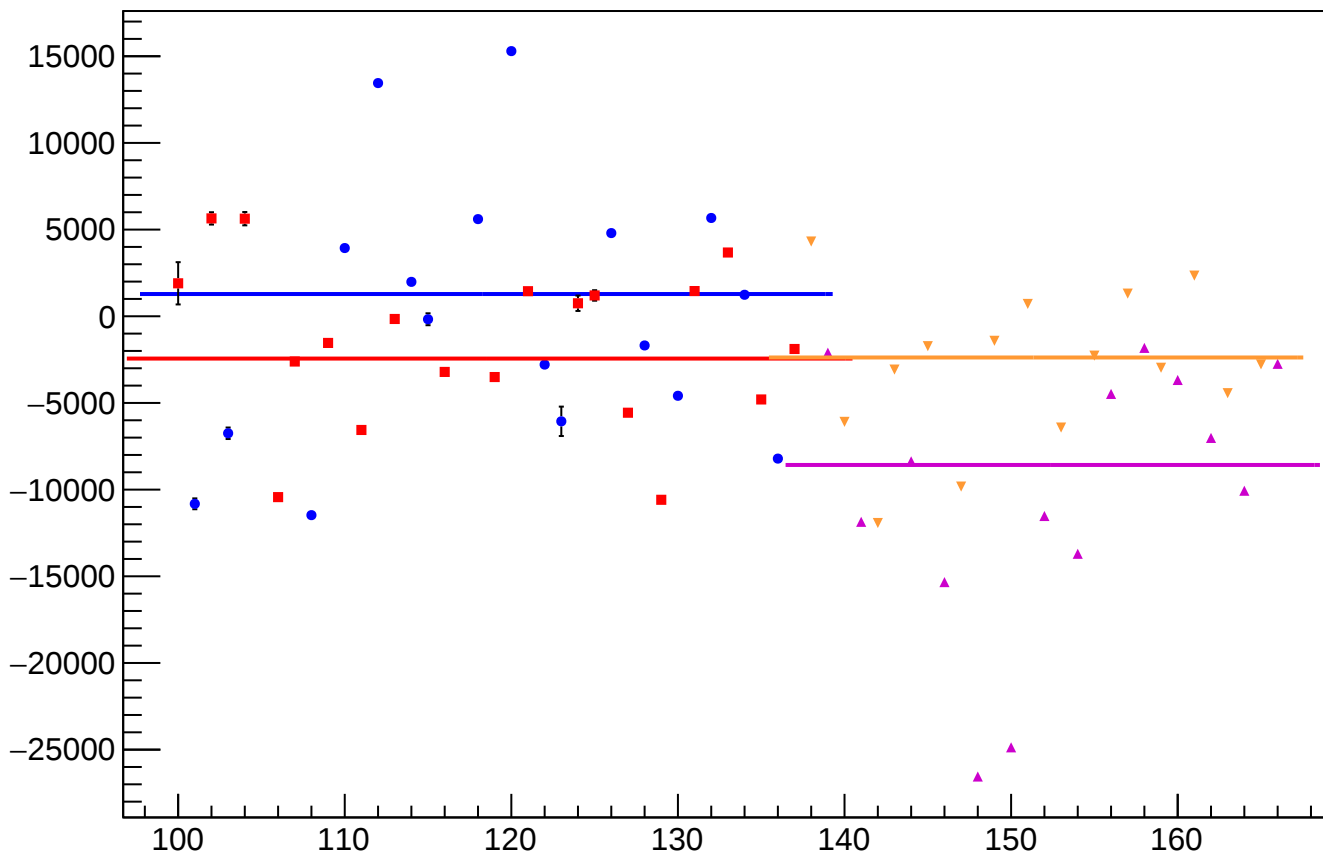
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 150.340 $\pm$ 0.026 χ^2 /NDF: 1516697.4/30

Out: 147.049 $\pm$ 0.025 χ^2 /NDF: 1502011.1/33

All: 148.625 $\pm$ 0.018 χ^2 /NDF: 3026867.2/64

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2377.868+/-42.252 χ^2/NDF : 9049.2/14

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -8577.582+/-44.396 χ^2/NDF : 19399.7/13

Left: -5324.408+/-30.607 χ^2/NDF : 38681.4/28

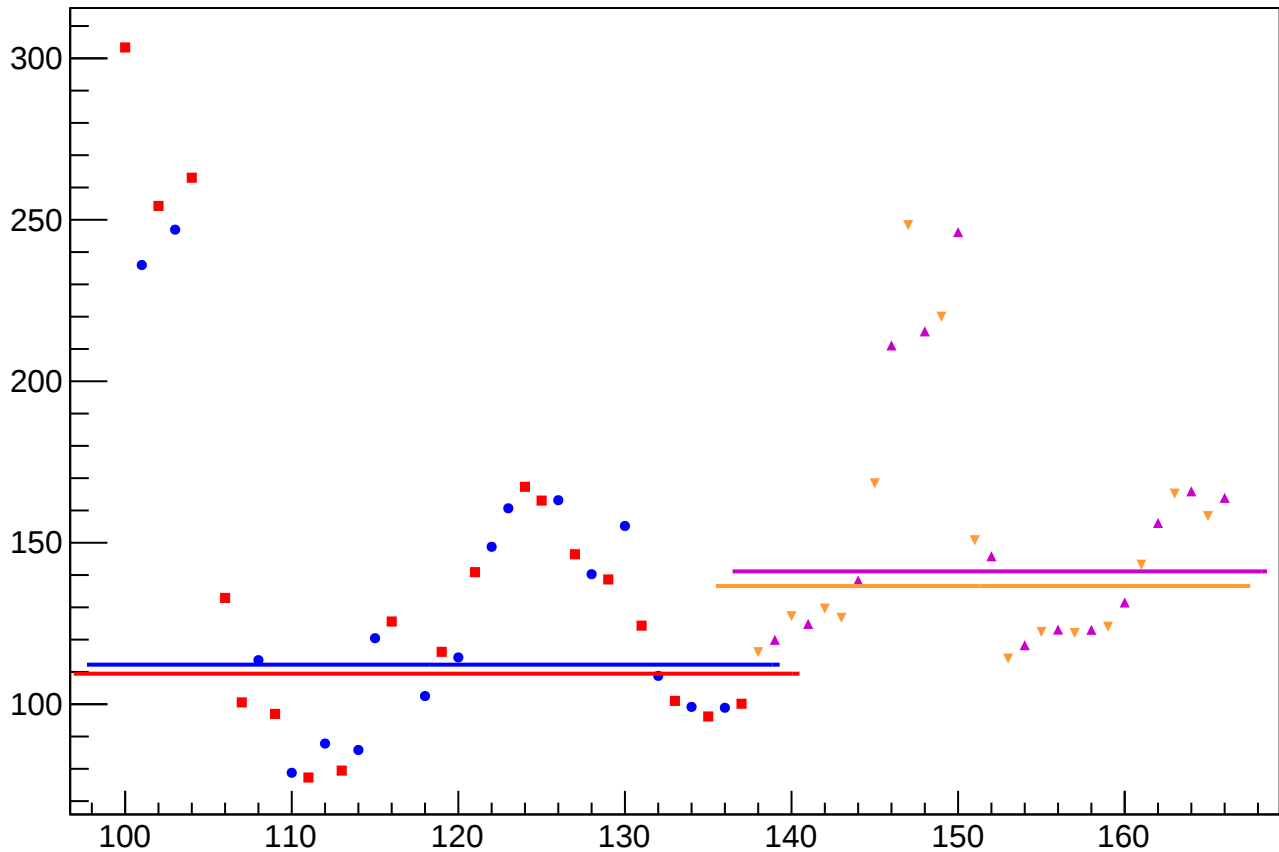
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3883.014+/-32.135 χ^2/NDF : 73426.1/30

Out: -2407.597+/-30.571 χ^2/NDF : 16727.8/33

All: -3108.526+/-22.149 χ^2/NDF : 91260.4/64

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: 141.133 ± 0.031 χ^2/NDF : 943135.4/13

Left: 138.748 ± 0.022 χ^2/NDF : 1818629.6/28

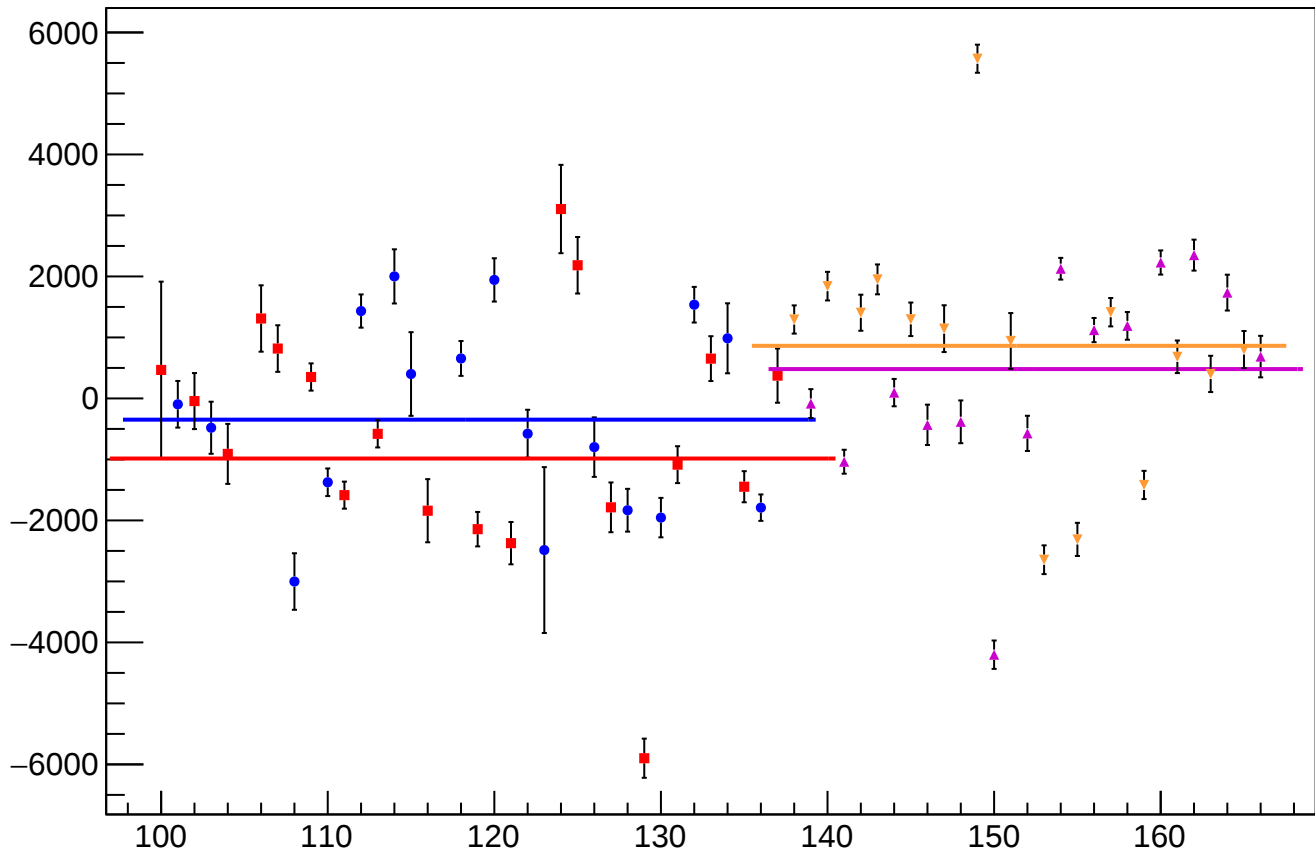
Right: 110.785 ± 0.023 χ^2/NDF : 2398941.6/35

In: 127.382 ± 0.023 χ^2/NDF : 2471668.6/30

Out: 123.661 ± 0.022 χ^2/NDF : 2526971.6/33

All: 125.429 ± 0.016 χ^2/NDF : 5012719.6/64

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Left: 657.402 ± 46.493 χ^2/NDF : 1702.1/28

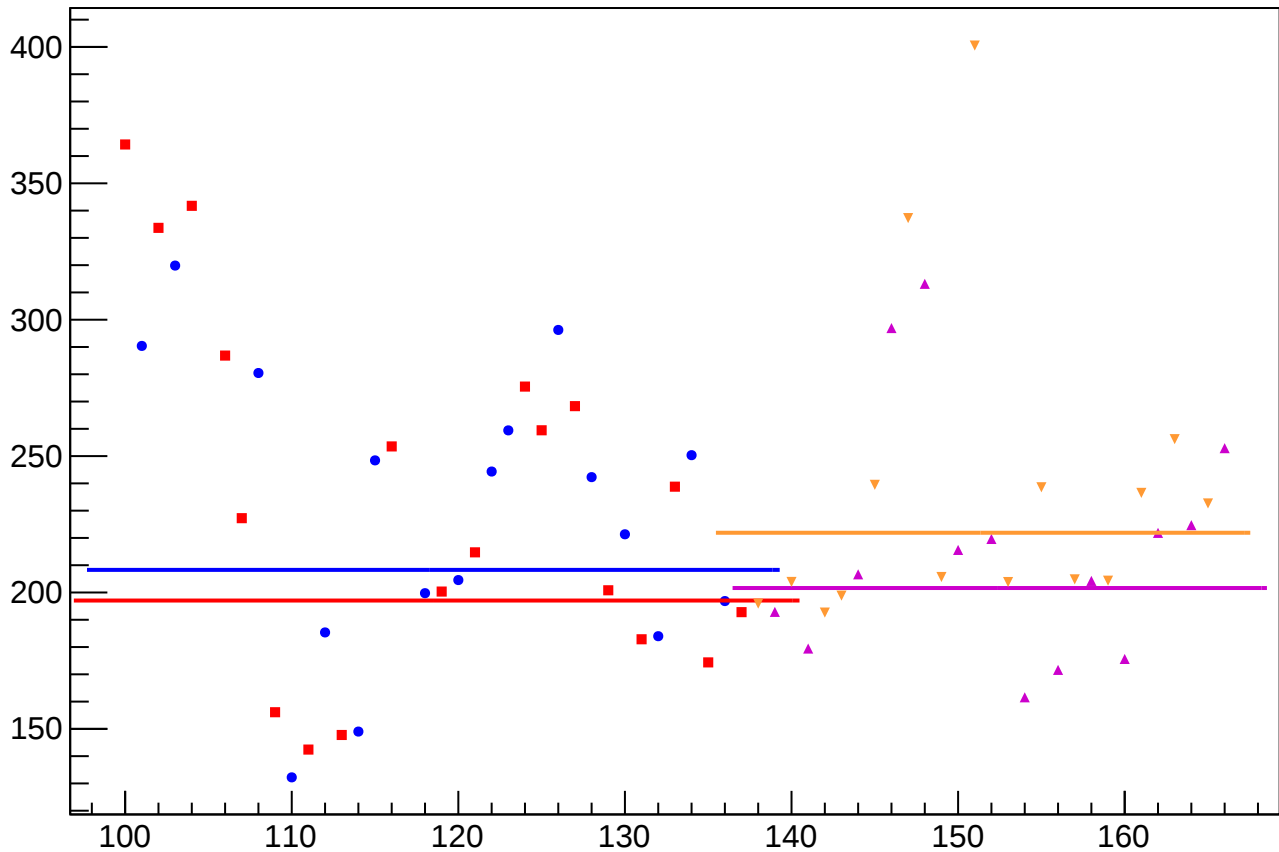
Right: -690.850 ± 56.978 χ^2/NDF : 824.9/35

In: 179.773 ± 50.546 χ^2/NDF : 1136.7/30

Out: 55.304 ± 51.350 χ^2/NDF : 1723.5/33

All: 118.520 ± 36.022 χ^2/NDF : 2863.1/64

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 221.900+/-0.048 χ^2/NDF : 655350.1/14

Right Out: 197.051+/-0.055 χ^2/NDF : 926786.6/18

Left In: 201.638+/-0.045 χ^2/NDF : 664964.6/13

Left: 210.991+/-0.033 χ^2/NDF : 1414719.3/28

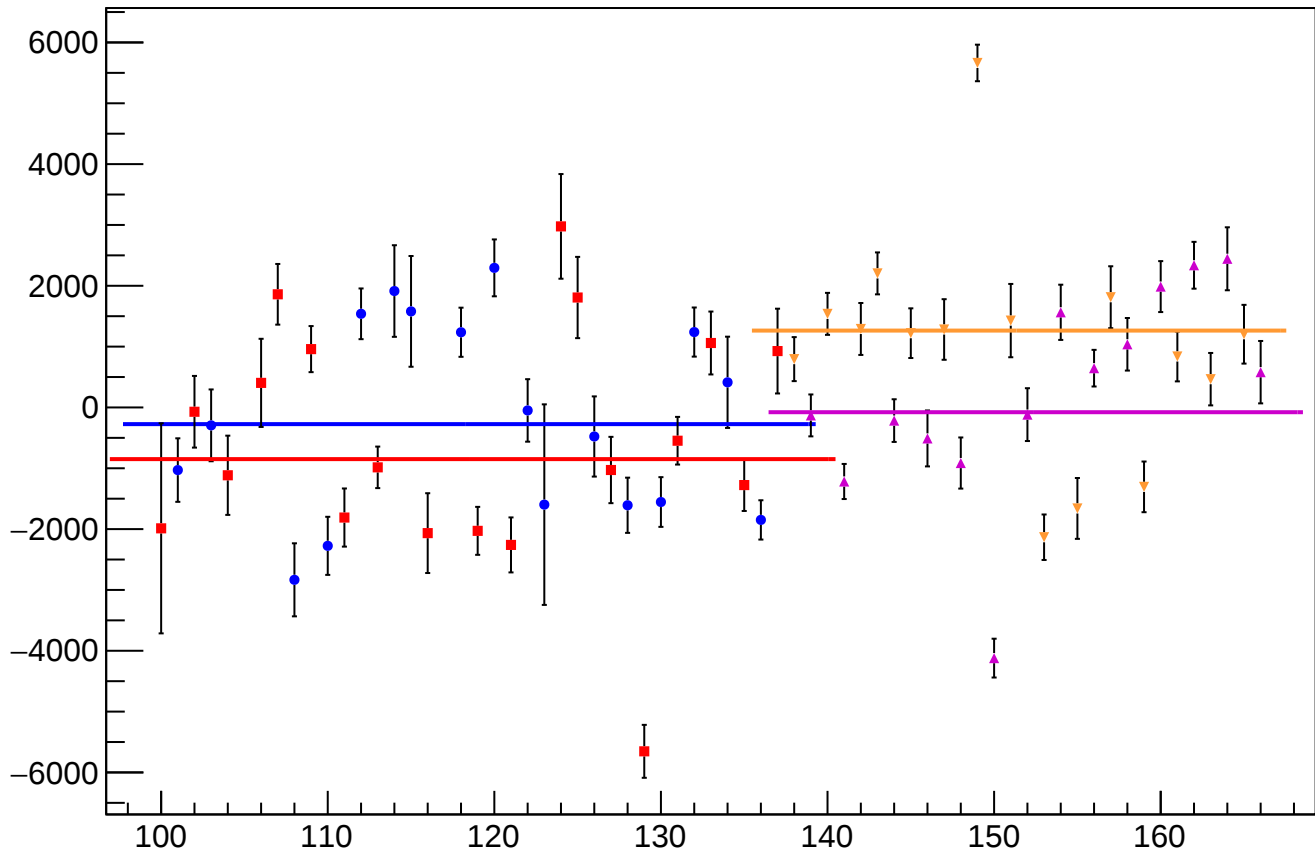
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 204.056+/-0.036 χ^2/NDF : 1371464.5/30

Out: 211.042+/-0.036 χ^2/NDF : 1697361.4/33

All: 207.494+/-0.025 χ^2/NDF : 3087630.6/64

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 $\chi^2/\text{NDF}: 171.6/16$

Left Out: 1263.554 ± 105.288 $\chi^2/\text{NDF}: 384.7/14$

Right Out: -849.413 ± 115.349 $\chi^2/\text{NDF}: 263.3/18$

Left In: -78.357 ± 102.419 $\chi^2/\text{NDF}: 295.8/13$

Left: 574.064 ± 73.414 $\chi^2/\text{NDF}: 763.9/28$

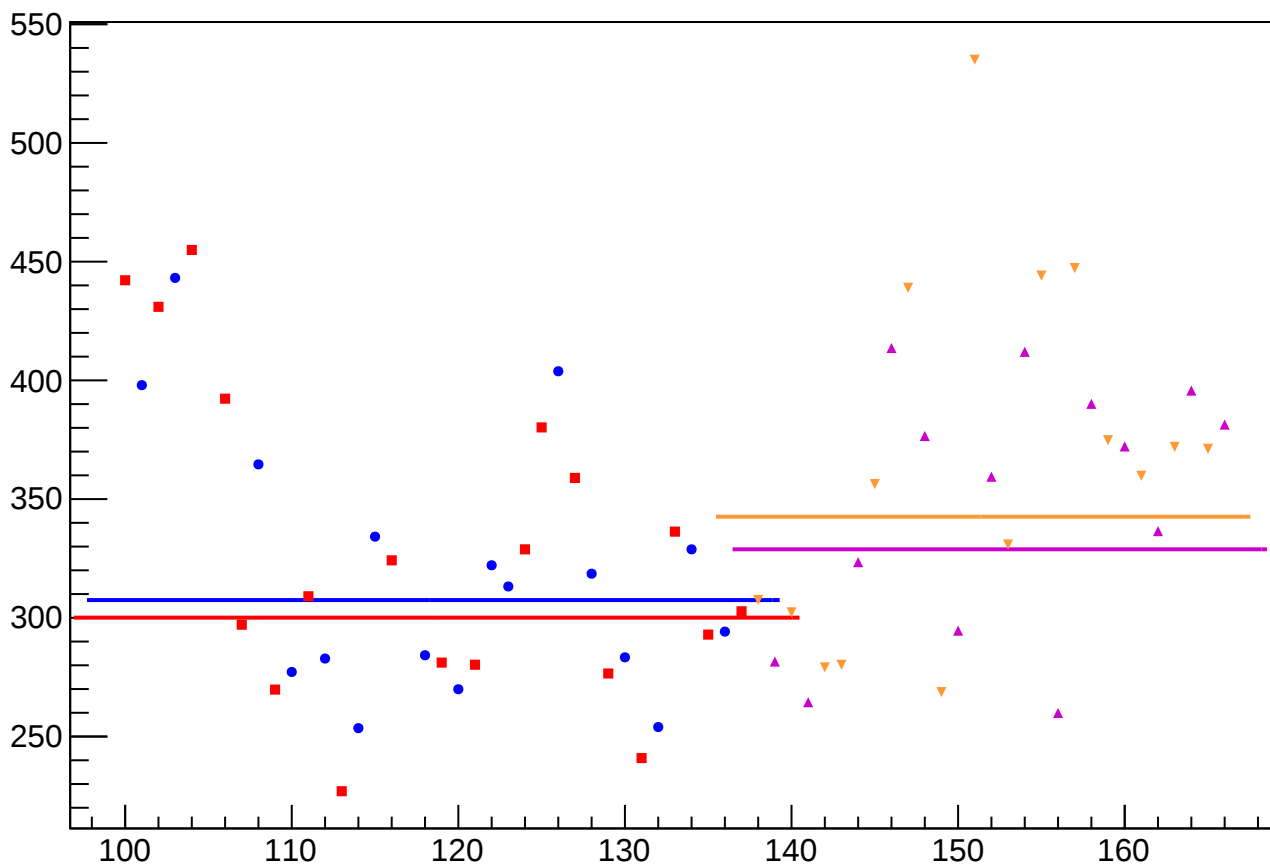
Right: -576.352 ± 83.597 $\chi^2/\text{NDF}: 446.6/35$

In: -159.872 ± 78.262 $\chi^2/\text{NDF}: 468.9/30$

Out: 303.219 ± 77.764 $\chi^2/\text{NDF}: 831.0/33$

All: 73.152 ± 55.163 $\chi^2/\text{NDF}: 1317.5/64$

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: 328.852 $\pm$ 0.072 χ^2 /NDF: 553313.5/13

Left: 335.528 $\pm$ 0.052 χ^2 /NDF: 1329652.4/28

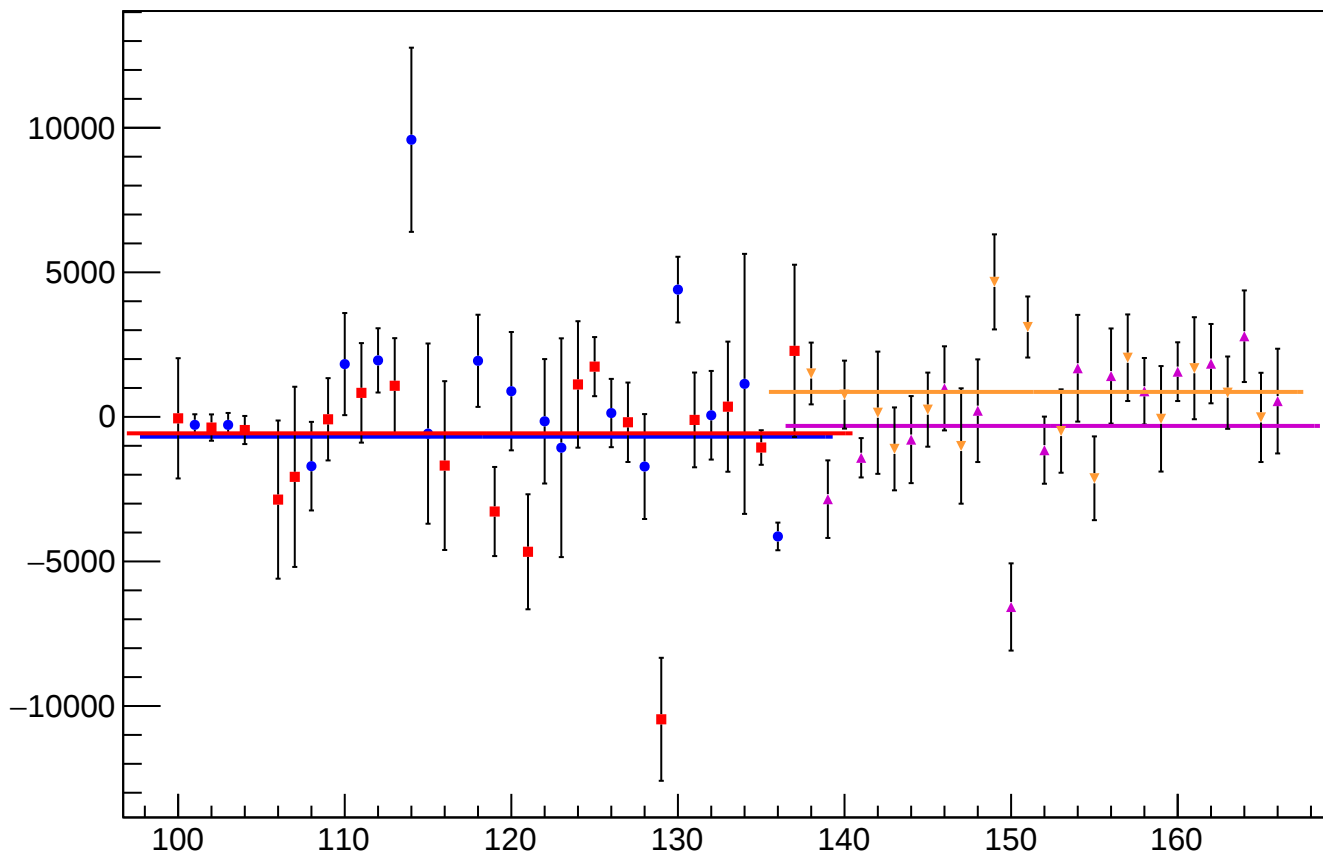
Right: 303.582 $\pm$ 0.059 χ^2 /NDF: 817401.9/35

In: 319.954 $\pm$ 0.055 χ^2 /NDF: 912686.8/30

Out: 323.261 $\pm$ 0.055 χ^2 /NDF: 1397464.6/33

All: 321.618 $\pm$ 0.039 χ^2 /NDF: 2311948.5/64

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: -312.009+/-338.095 χ^2/NDF :38.2/13

Left: 231.540+/-247.926 χ^2/NDF : 63.7/28

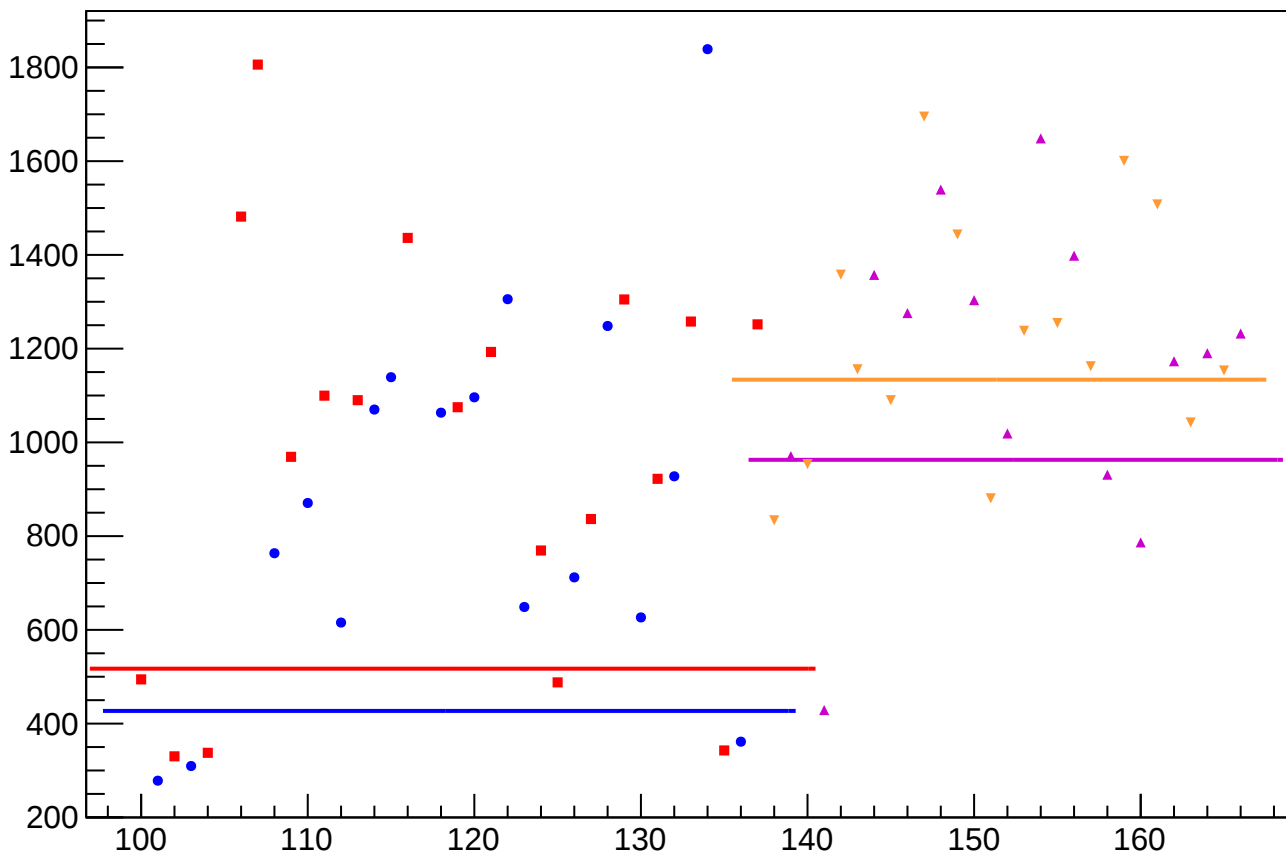
Right: -635.255+/-159.106 χ^2/NDF : 137.2/35

In: -580.958+/-178.598 χ^2/NDF :136.5/30

Out: -127.509+/-202.359 χ^2/NDF :70.3/33

All: -382.406+/-133.904 χ^2/NDF : 209.6/64

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079 $\pm$ 0.149 χ^2 /NDF: 2865678.7/16

Left Out: 1133.831 $\pm$ 0.258 χ^2 /NDF: 830836.9/14

Right Out: 517.234 $\pm$ 0.172 χ^2 /NDF: 3605111.9/18

Left In: 962.820 $\pm$ 0.239 χ^2 /NDF: 2388601.0/13

Left: 1041.872 $\pm$ 0.175 χ^2 /NDF: 3455969.3/28

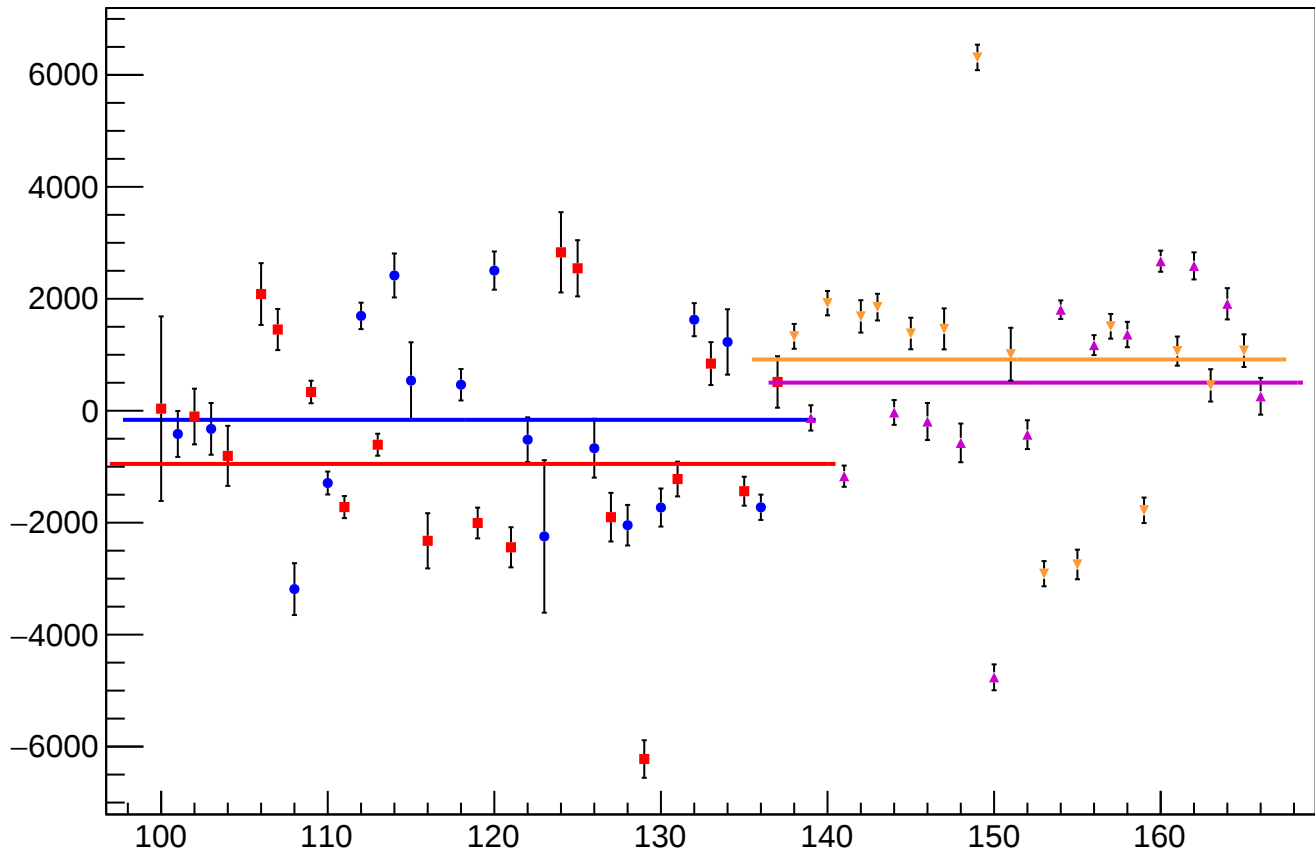
Right: 465.650 $\pm$ 0.113 χ^2 /NDF: 6627982.5/35

In: 576.576 $\pm$ 0.126 χ^2 /NDF: 8874794.0/30

Out: 707.119 $\pm$ 0.143 χ^2 /NDF: 8393357.4/33

All: 633.737 $\pm$ 0.095 χ^2 /NDF: 17736026.5/64

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: 502.475+/-60.460 χ^2/NDF :958.6/13

Left: 689.934+/-44.695 χ^2/NDF : 2224.0/28

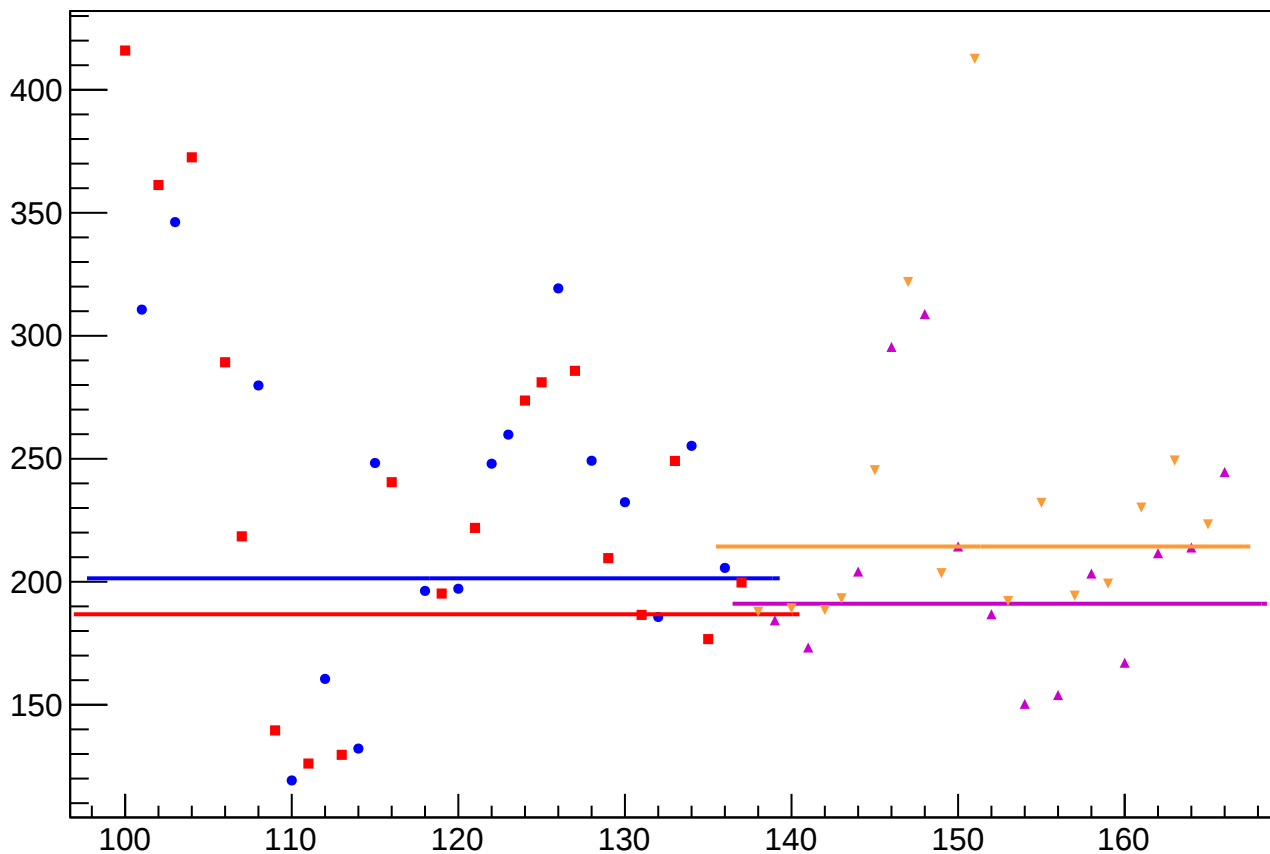
Right: -592.238+/-55.504 χ^2/NDF : 977.3/35

In: 269.634+/-48.736 χ^2/NDF :1388.5/30

Out: 97.999+/-49.741 χ^2/NDF :2130.4/33

All: 185.569+/-34.811 χ^2/NDF : 3525.0/64

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 $\pm$ 0.058 χ^2 /NDF: 1056022.1/16

Left Out: 214.348 $\pm$ 0.047 χ^2 /NDF: 732731.8/14

Right Out: 186.797 $\pm$ 0.053 χ^2 /NDF: 1393162.0/18

Left In: 191.083 $\pm$ 0.043 χ^2 /NDF: 804725.9/13

Left: 201.634 $\pm$ 0.032 χ^2 /NDF: 1671766.1/28

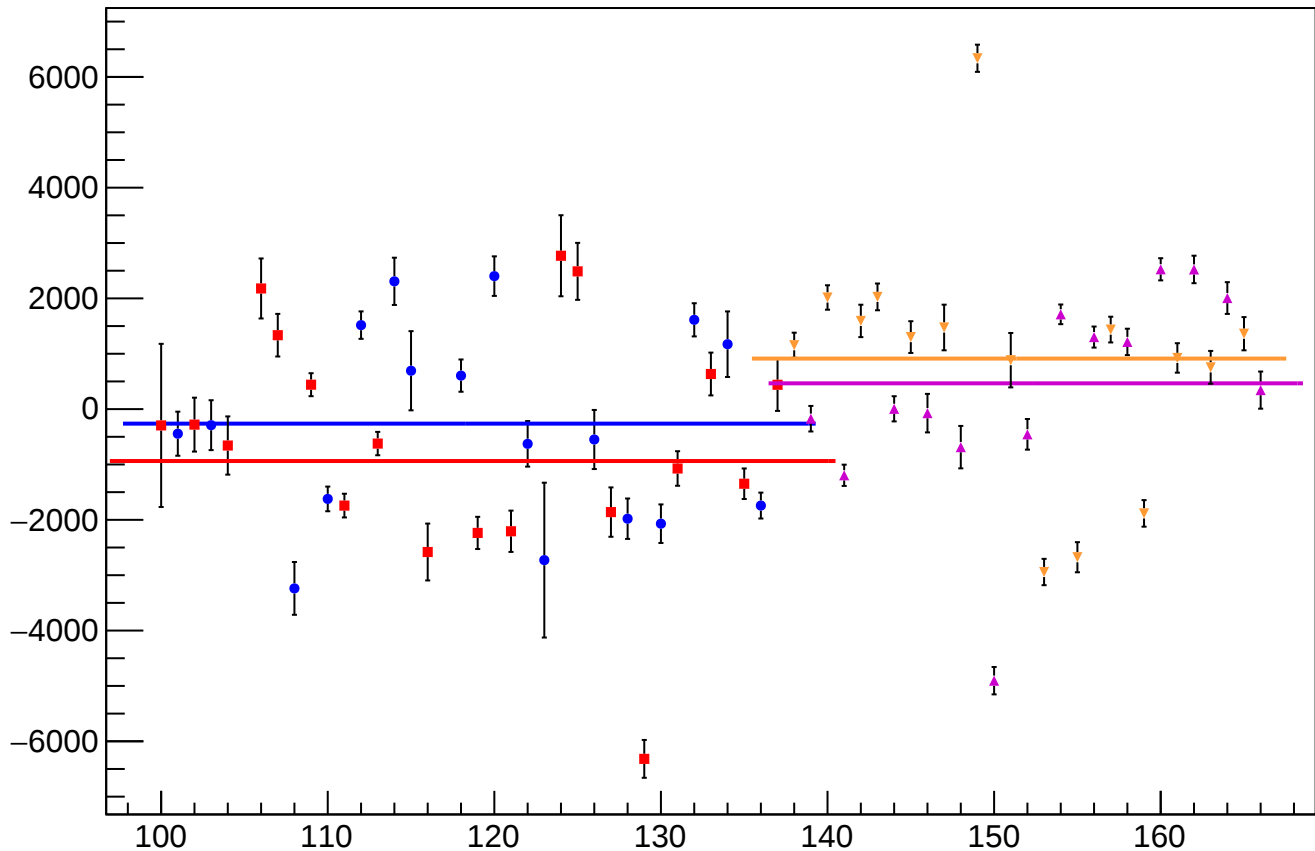
Right: 193.435 $\pm$ 0.039 χ^2 /NDF: 2483546.7/35

In: 194.700 $\pm$ 0.034 χ^2 /NDF: 1881182.2/30

Out: 202.273 $\pm$ 0.035 χ^2 /NDF: 2276950.0/33

All: 198.409 $\pm$ 0.025 χ^2 /NDF: 4181786.8/64

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324+/-85.433 χ^2/NDF : 368.7/16

Left Out: 912.998+/-68.800 χ^2/NDF :1124.3/14

Right Out: -937.678+/-78.434 χ^2/NDF : 521.9/18

Left In: 465.823+/-63.399 χ^2/NDF :862.1/13

Left: 671.171+/-46.622 χ^2/NDF : 2009.3/28

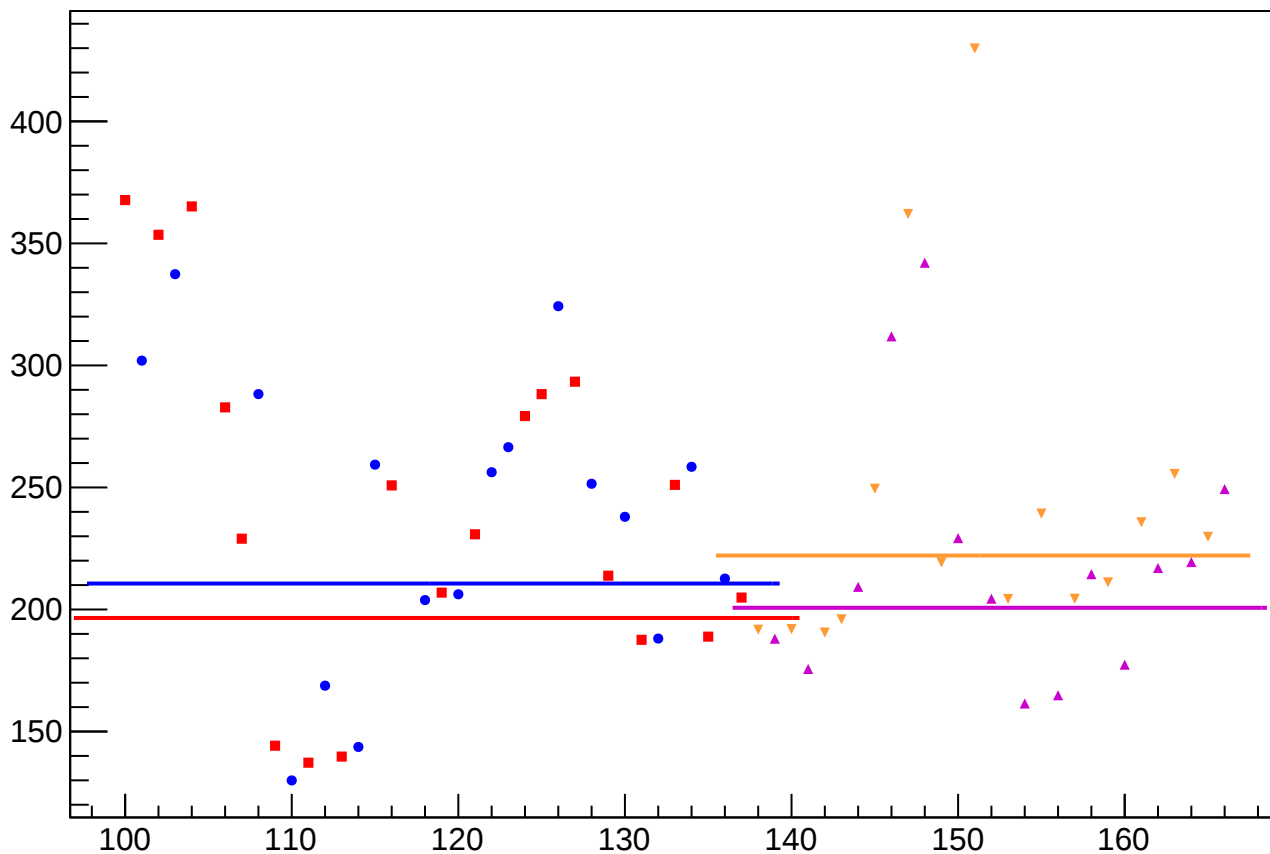
Right: -628.795+/-57.777 χ^2/NDF : 924.5/35

In: 207.239+/-50.912 χ^2/NDF :1277.7/30

Out: 108.240+/-51.722 χ^2/NDF :1960.9/33

All: 158.520+/-36.283 χ^2/NDF : 3240.4/64

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: 200.698+/-0.045 χ^2/NDF : 807826.5/13

Left: 210.531+/-0.033 χ^2/NDF : 1706100.2/28

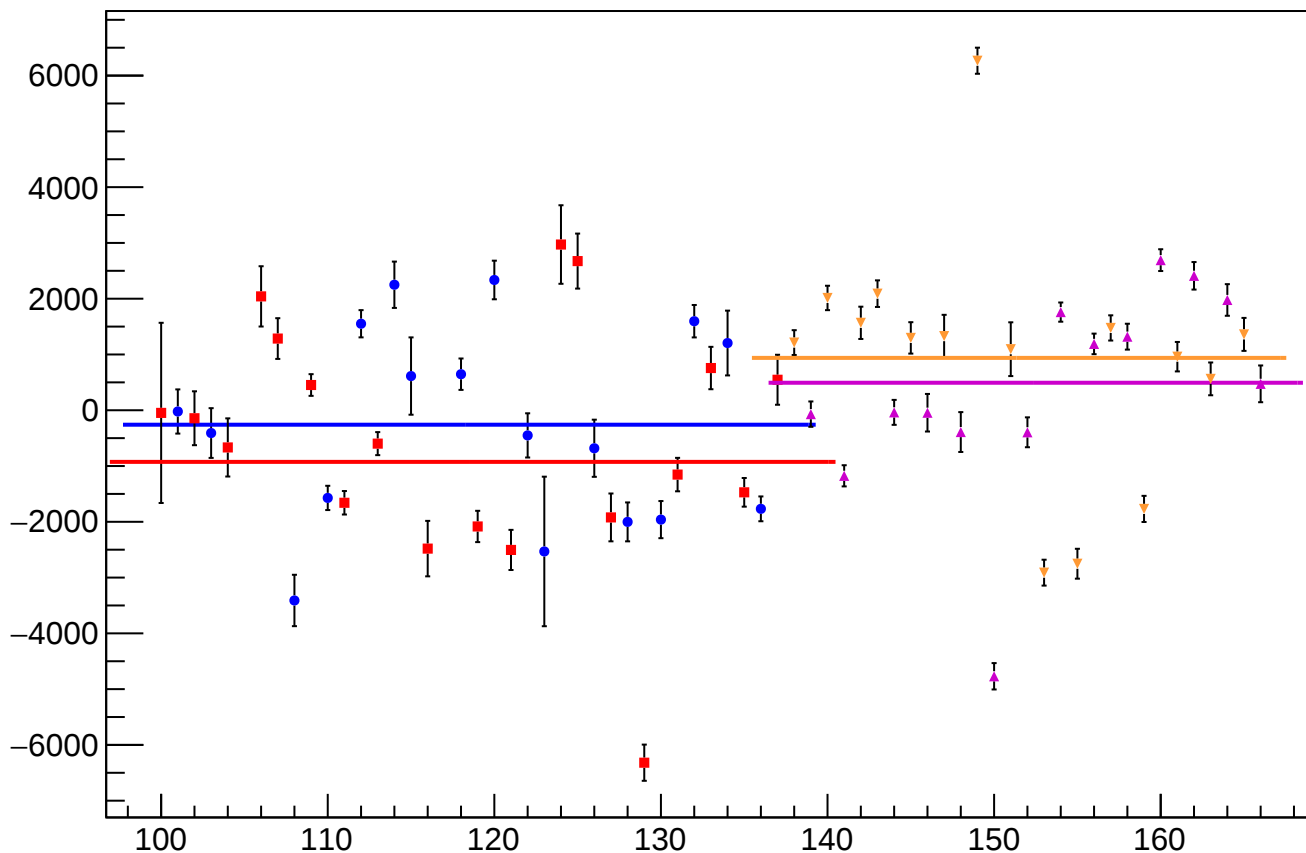
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 204.227+/-0.036 χ^2/NDF : 1701054.8/30

Out: 210.987+/-0.037 χ^2/NDF : 2118843.2/33

All: 207.554+/-0.026 χ^2/NDF : 3837249.0/64

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: 493.102±/61.830 χ^2/NDF :899.9/13

Left: 696.880±/45.554 χ^2/NDF : 2106.5/28

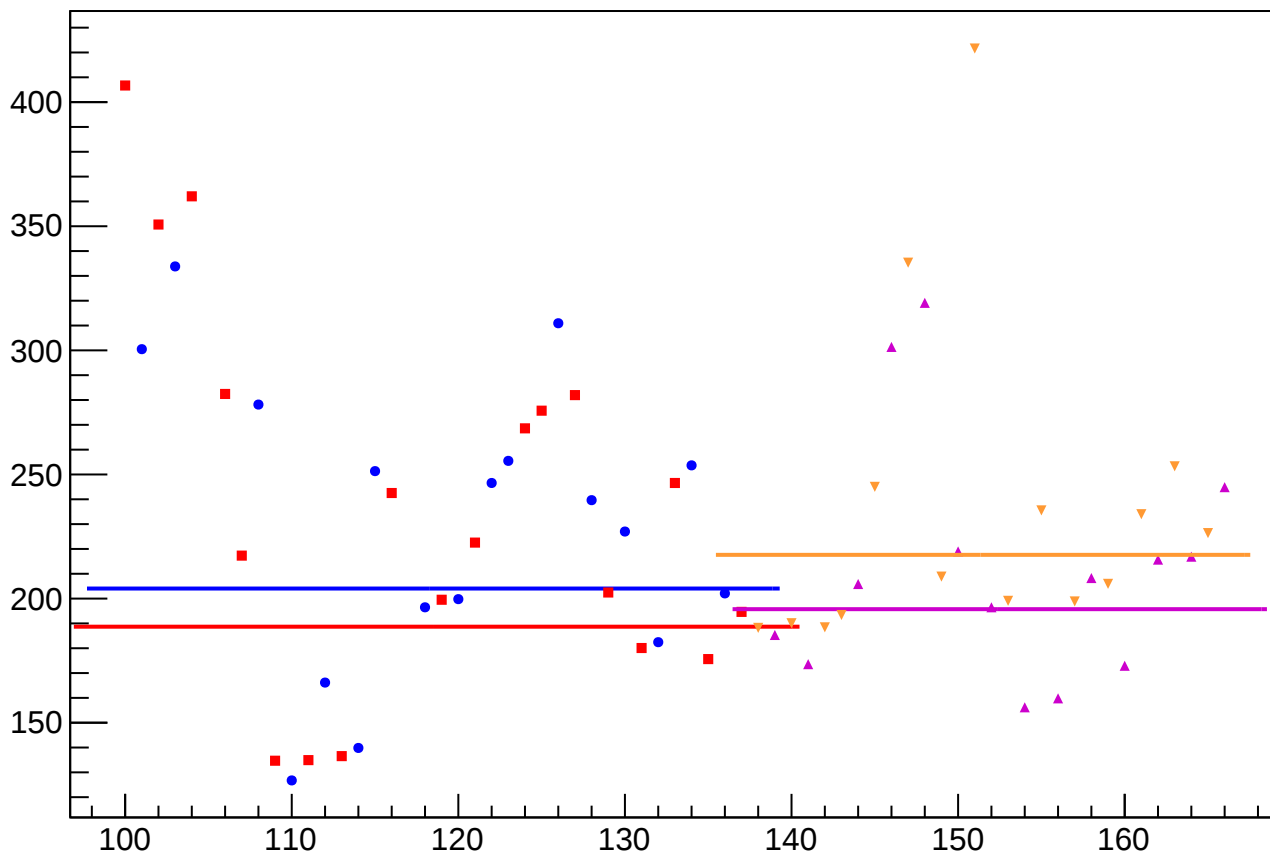
Right: -622.995±/55.791 χ^2/NDF : 1008.5/35

In: 223.812±/49.542 χ^2/NDF :1344.1/30

Out: 112.394±/50.270 χ^2/NDF :2104.2/33

All: 168.915±/35.286 χ^2/NDF : 3450.8/64

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: 195.738+/-0.044 χ^2/NDF : 773217.2/13

Left: 205.743+/-0.032 χ^2/NDF : 1644766.2/28

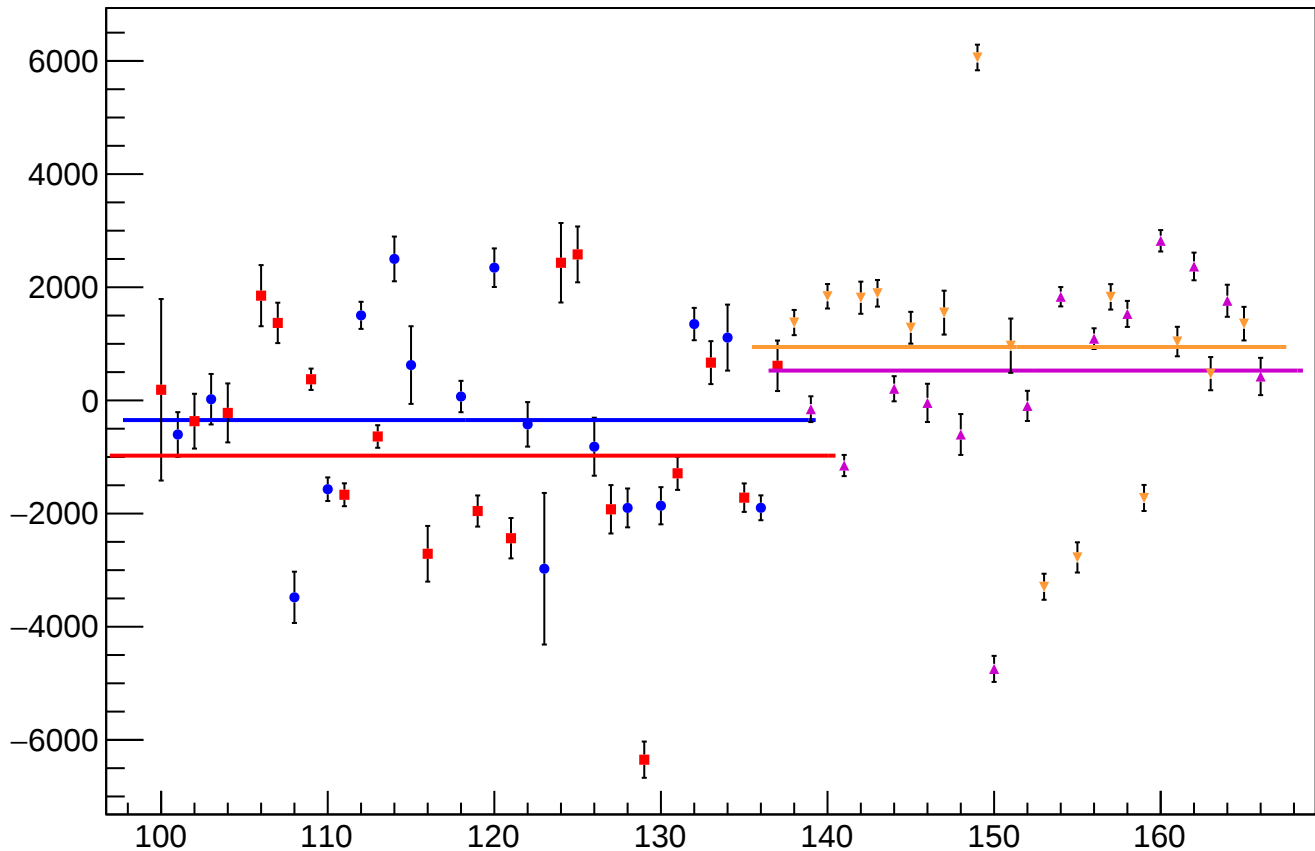
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 198.714+/-0.035 χ^2/NDF : 1654581.6/30

Out: 204.793+/-0.036 χ^2/NDF : 2171715.5/33

All: 201.709+/-0.025 χ^2/NDF : 3841131.9/64

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: 527.359+/-61.242 χ^2/NDF :943.7/13

Left: 717.795+/-45.135 χ^2/NDF : 2212.1/28

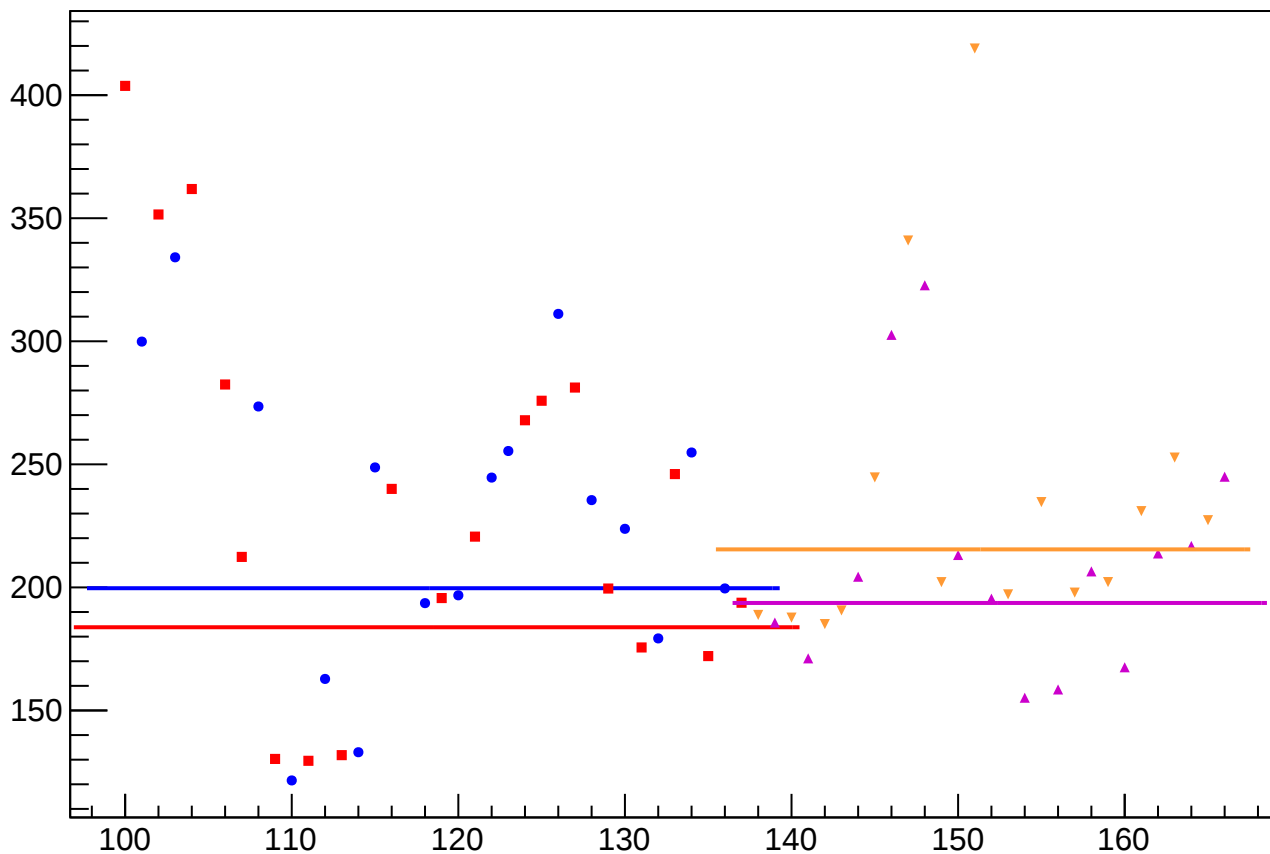
Right: -691.802+/-54.685 χ^2/NDF : 1017.5/35

In: 210.828+/-48.920 χ^2/NDF :1416.6/30

Out: 80.799+/-49.543 χ^2/NDF :2204.8/33

All: 146.636+/-34.810 χ^2/NDF : 3624.9/64

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2/NDF : 943155.1/16

Left Out: 215.446 $\pm$ 0.047 χ^2/NDF : 789028.6/14

Right Out: 183.808 $\pm$ 0.052 χ^2/NDF : 1349625.1/18

Left In: 193.678 $\pm$ 0.043 χ^2/NDF : 807768.3/13

Left: 203.623 $\pm$ 0.032 χ^2/NDF : 1712226.5/28

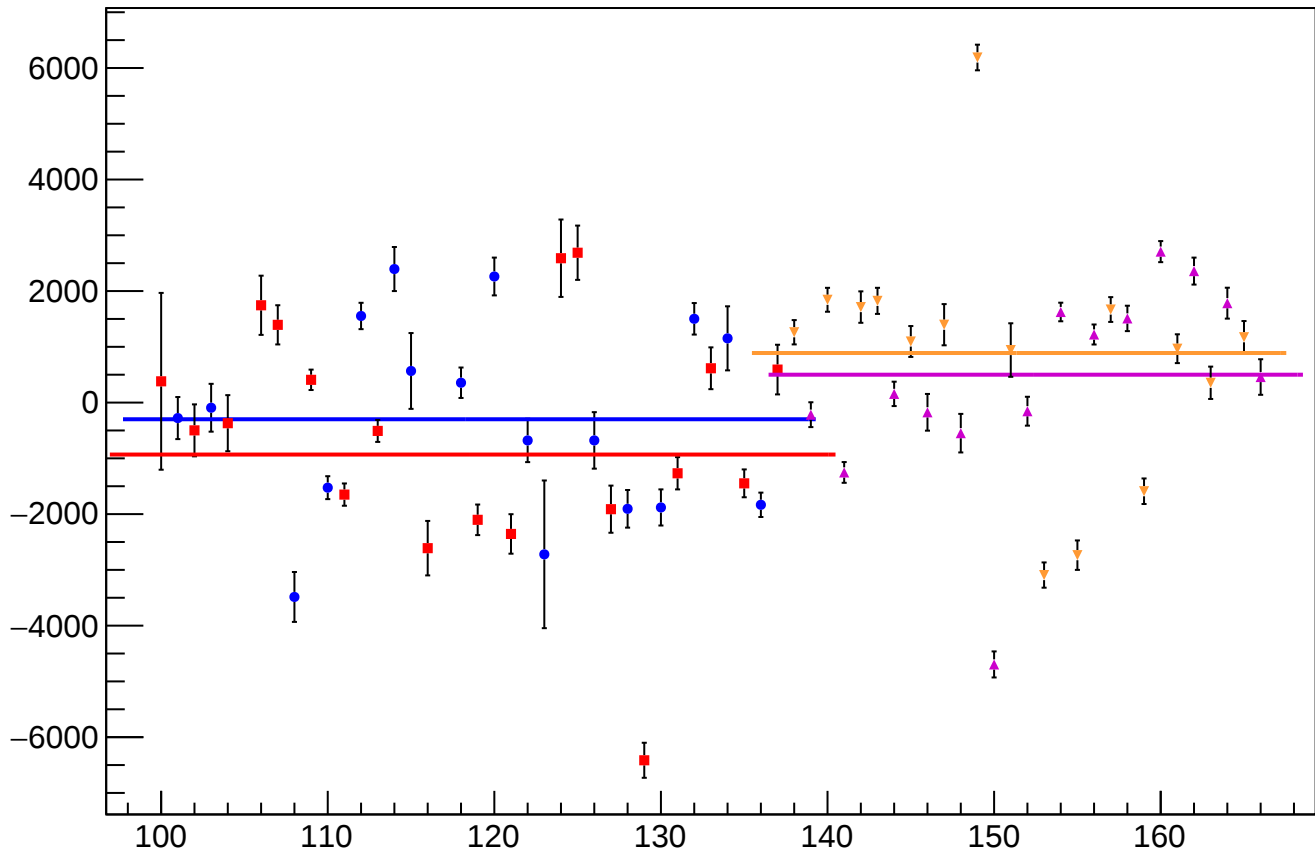
Right: 190.981 $\pm$ 0.039 χ^2/NDF : 2334457.4/35

In: 195.847 $\pm$ 0.035 χ^2/NDF : 1757849.6/30

Out: 201.222 $\pm$ 0.035 χ^2/NDF : 2340481.7/33

All: 198.500 $\pm$ 0.025 χ^2/NDF : 4110254.4/64

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Left: 676.796 ± 44.540 χ^2/NDF : 2144.8/28

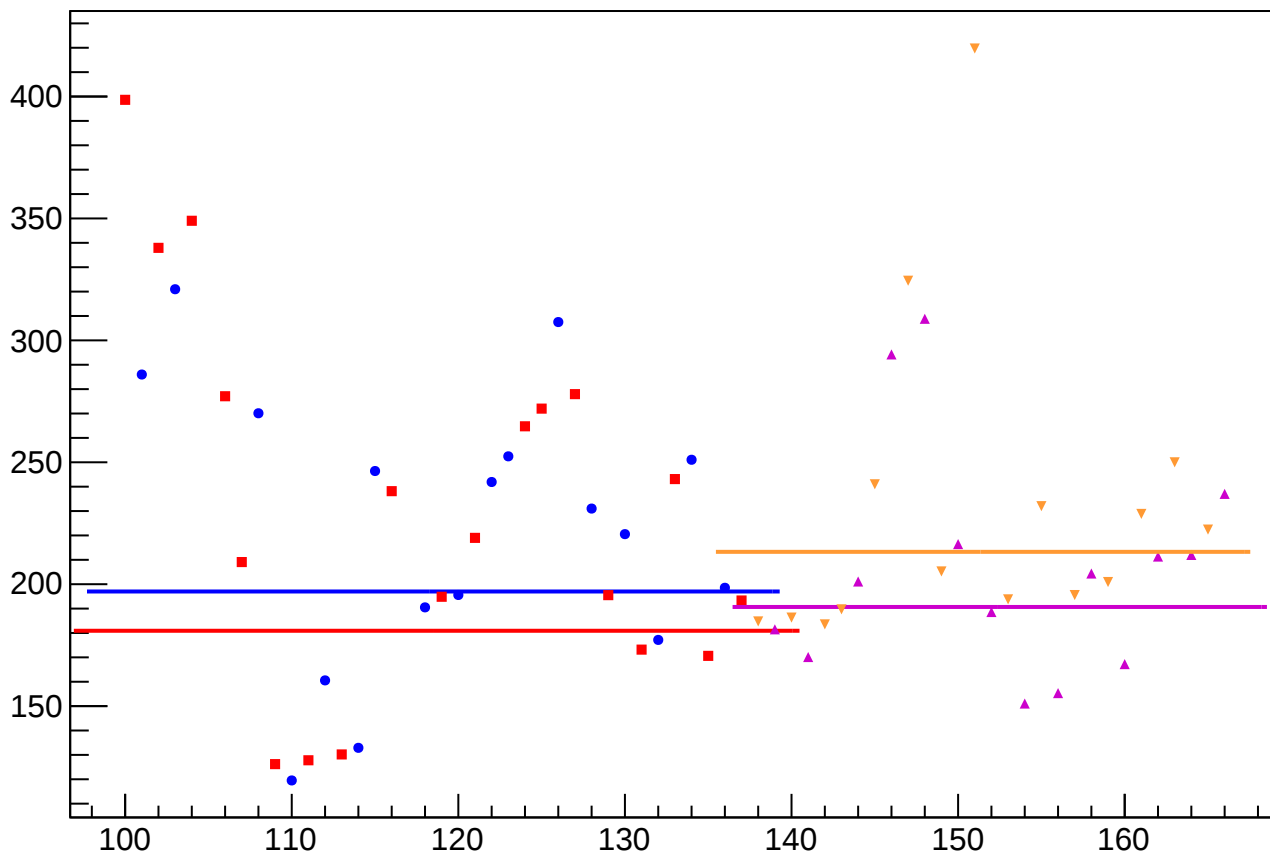
Right: -646.004 ± 53.873 χ^2/NDF : 1055.6/35

In: 211.276 ± 48.188 χ^2/NDF : 1384.1/30

Out: 65.997 ± 48.913 χ^2/NDF : 2169.9/33

All: 139.721 ± 34.327 χ^2/NDF : 3558.5/64

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: 190.668+/-0.043 χ^2/NDF : 785601.1/13

Left: 200.939+/-0.031 χ^2/NDF : 1679678.6/28

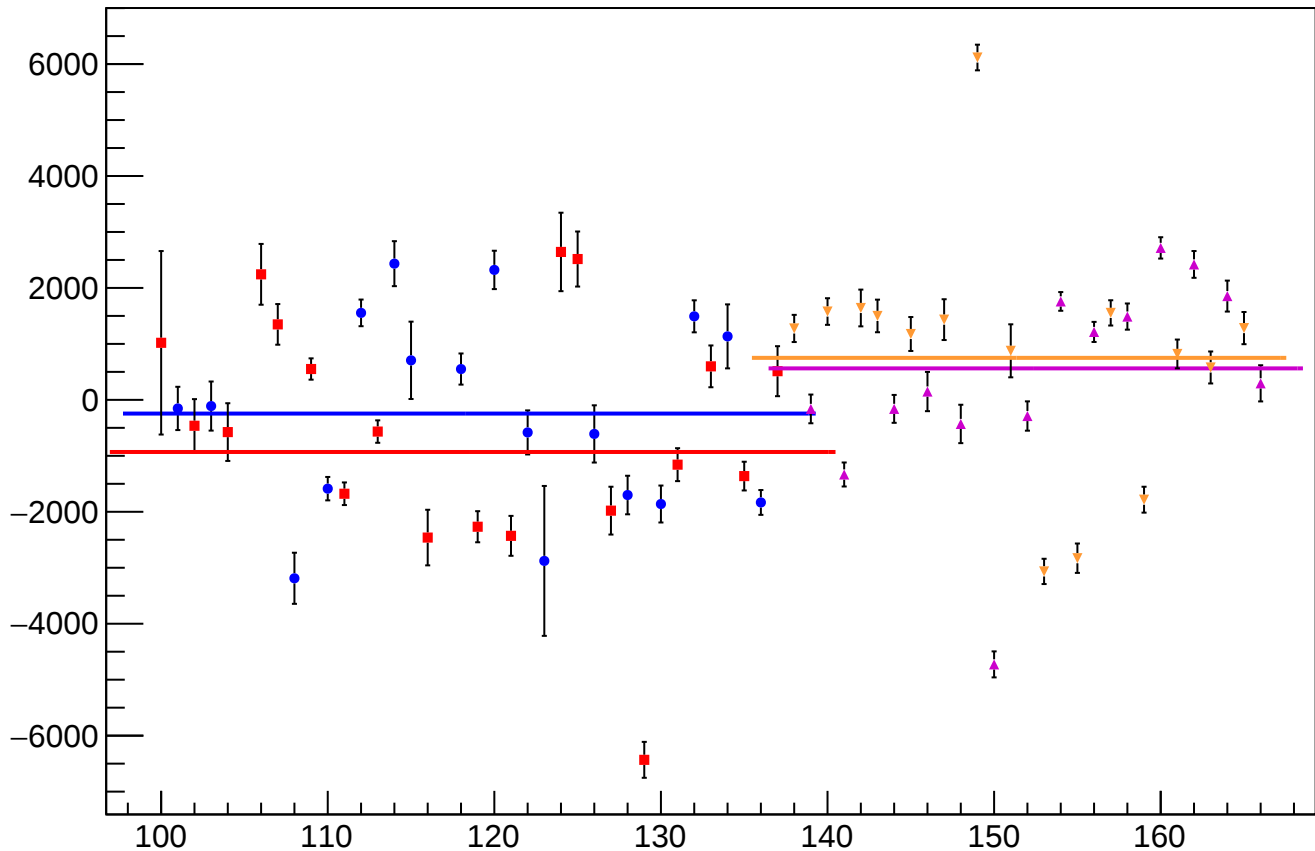
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 192.961+/-0.034 χ^2/NDF : 1705529.0/30

Out: 198.643+/-0.035 χ^2/NDF : 2328972.5/33

All: 195.759+/-0.024 χ^2/NDF : 4048197.4/64

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: 562.335+/-62.558 χ^2/NDF : 923.2/13

Left: 647.108+/-46.377 χ^2/NDF : 2119.0/28

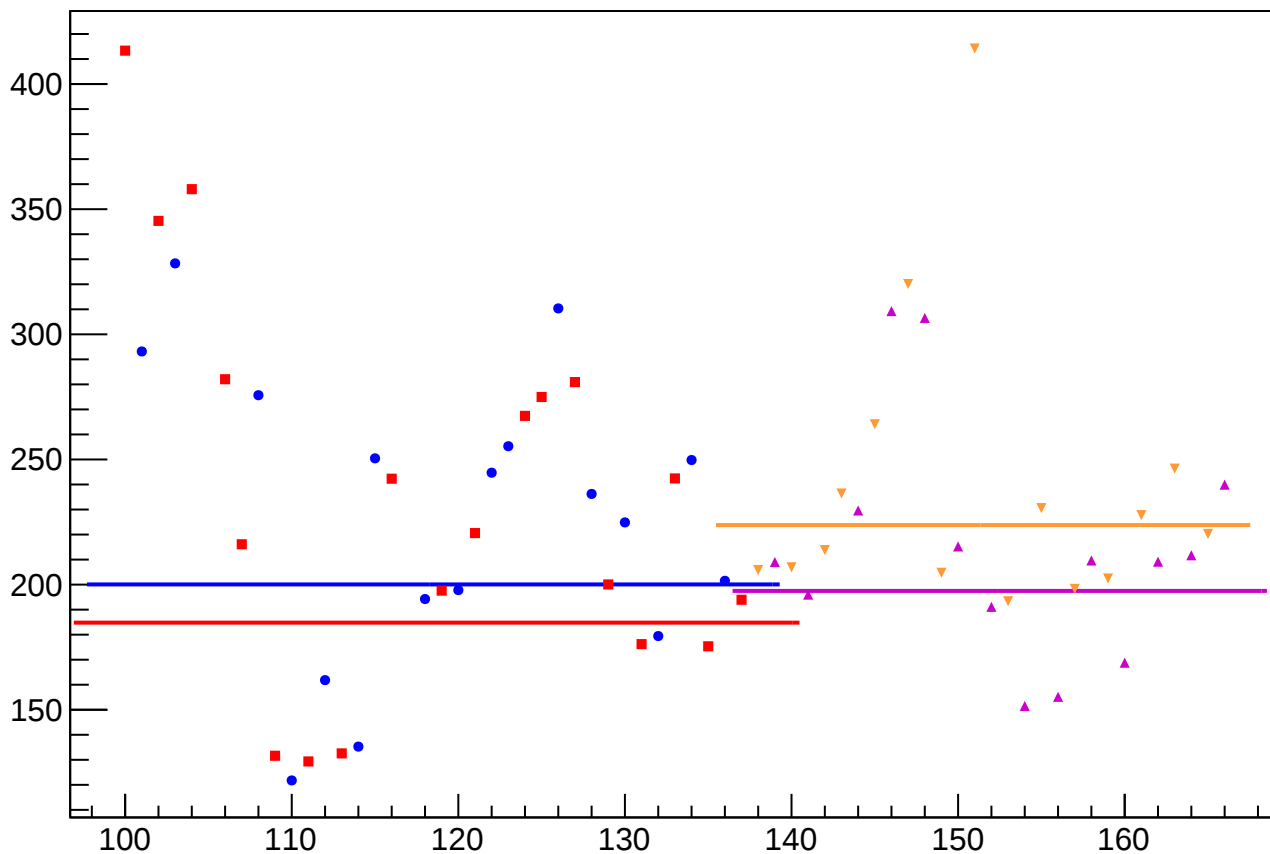
Right: -619.742+/-54.837 χ^2/NDF : 1040.0/35

In: 262.563+/-49.601 χ^2/NDF : 1376.5/30

Out: -30.548+/-50.571 χ^2/NDF : 2076.5/33

All: 118.846+/-35.411 χ^2/NDF : 3470.1/64

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 $\pm$ 0.058 χ^2 /NDF: 918309.2/16

Left Out: 223.789 $\pm$ 0.049 χ^2 /NDF: 631888.8/14

Right Out: 184.807 $\pm$ 0.052 χ^2 /NDF: 1318267.6/18

Left In: 197.488 $\pm$ 0.044 χ^2 /NDF: 813451.2/13

Left: 209.335 $\pm$ 0.033 χ^2 /NDF: 1604575.9/28

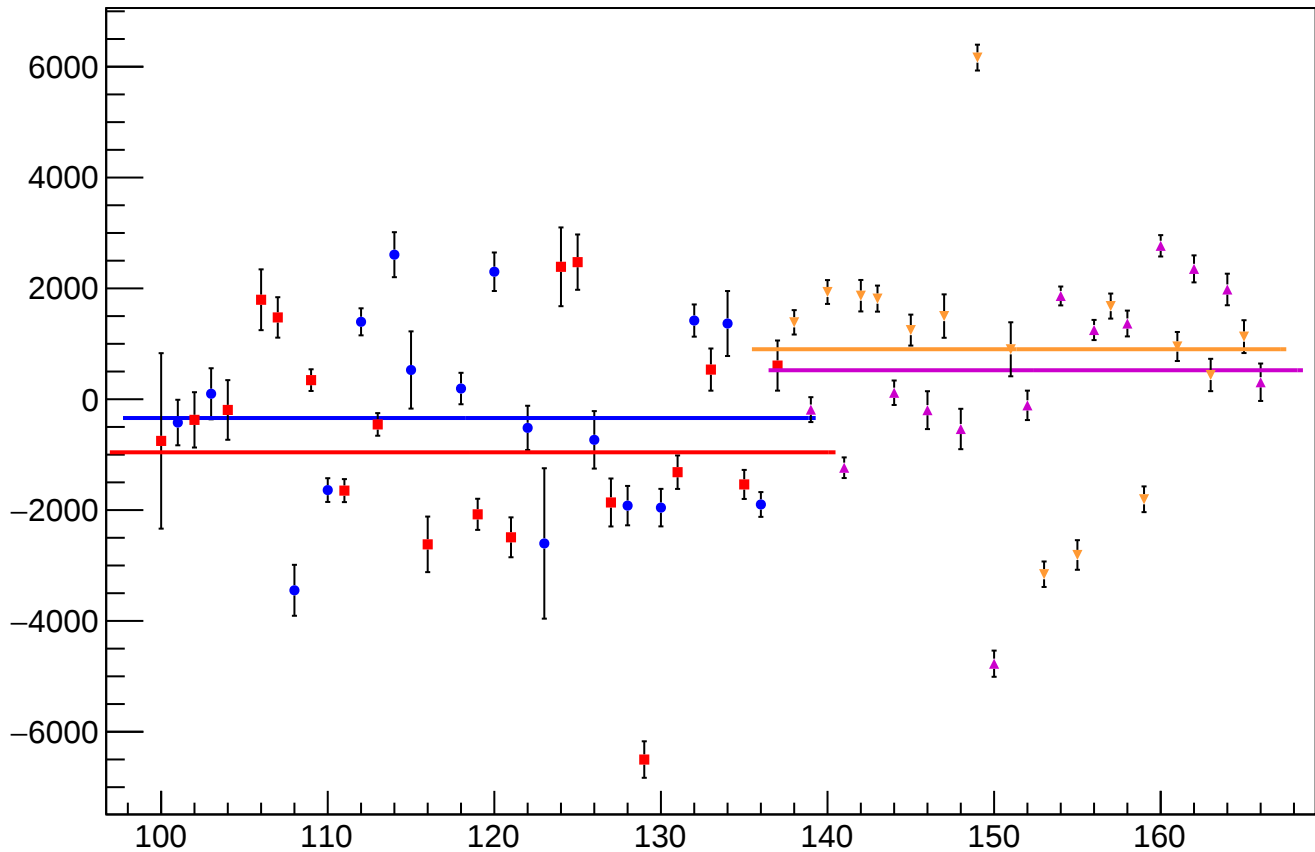
Right: 191.739 $\pm$ 0.039 χ^2 /NDF: 2275022.2/35

In: 198.450 $\pm$ 0.035 χ^2 /NDF: 1733033.8/30

Out: 205.685 $\pm$ 0.036 χ^2 /NDF: 2245753.1/33

All: 201.997 $\pm$ 0.025 χ^2 /NDF: 3999651.1/64

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Left: 696.394 ± 45.236 χ^2/NDF : 2172.8/28

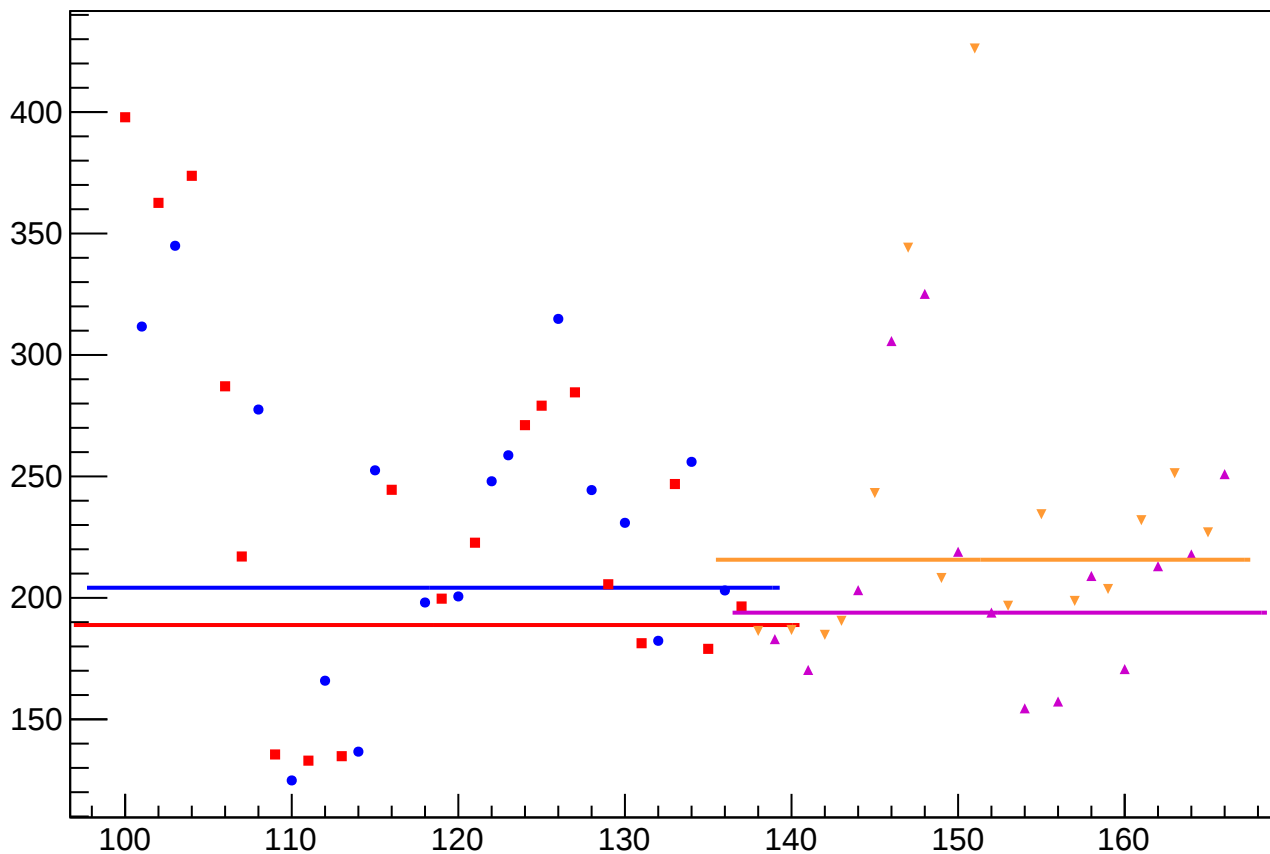
Right: -676.943 ± 55.988 χ^2/NDF : 990.0/35

In: 218.787 ± 49.385 χ^2/NDF : 1391.5/30

Out: 87.166 ± 50.146 χ^2/NDF : 2131.9/33

All: 153.983 ± 35.186 χ^2/NDF : 3526.8/64

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: 193.908 $\pm$ 0.043 χ^2/NDF : 845387.6/13

Left: 203.872 $\pm$ 0.032 χ^2/NDF : 1768766.5/28

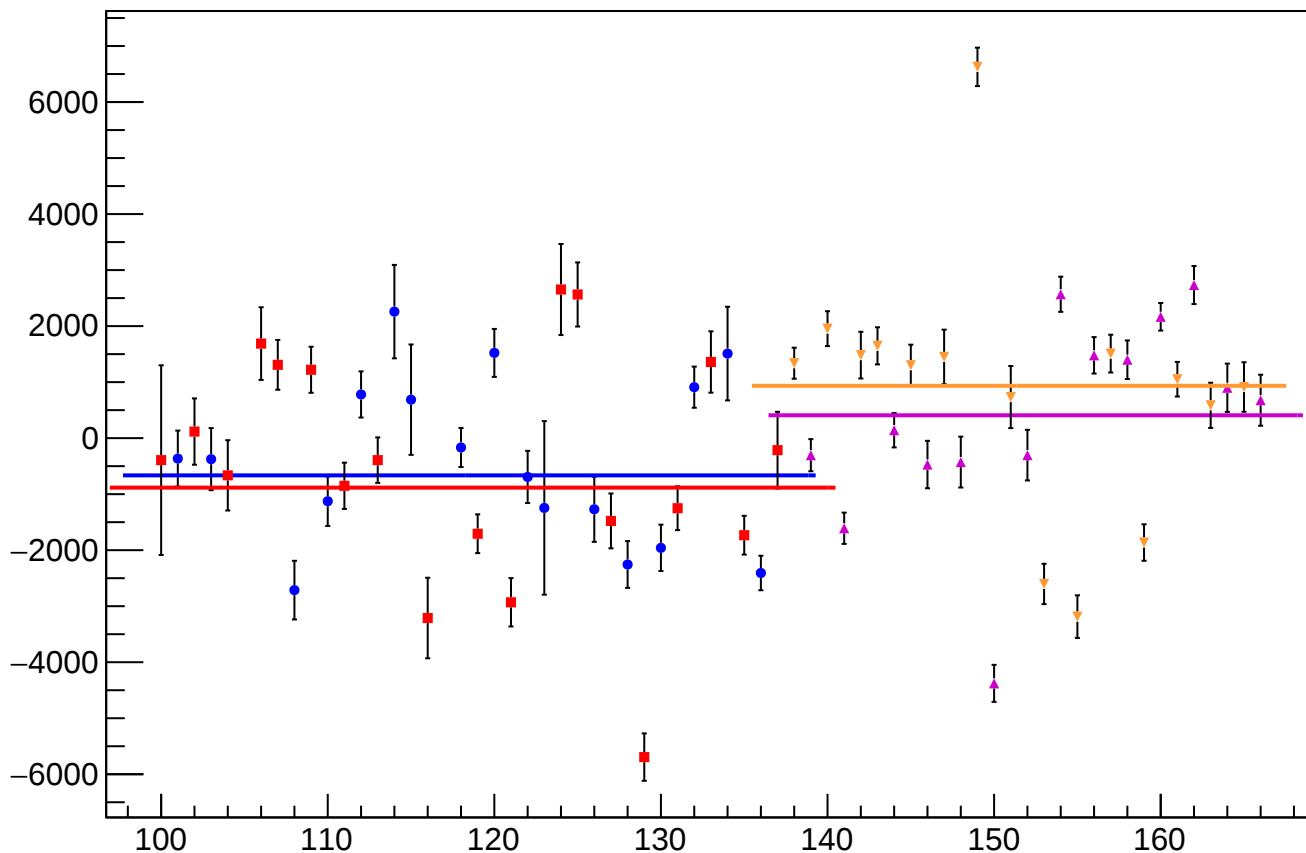
Right: 195.787 $\pm$ 0.040 χ^2/NDF : 2299610.3/35

In: 197.532 $\pm$ 0.035 χ^2/NDF : 1812569.1/30

Out: 203.923 $\pm$ 0.035 χ^2/NDF : 2264549.3/33

All: 200.679 $\pm$ 0.025 χ^2/NDF : 4093611.4/64

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: 407.953±/89.974 χ^2/NDF : 445.2/13

Left: 663.075±/64.588 χ^2/NDF : 1050.3/28

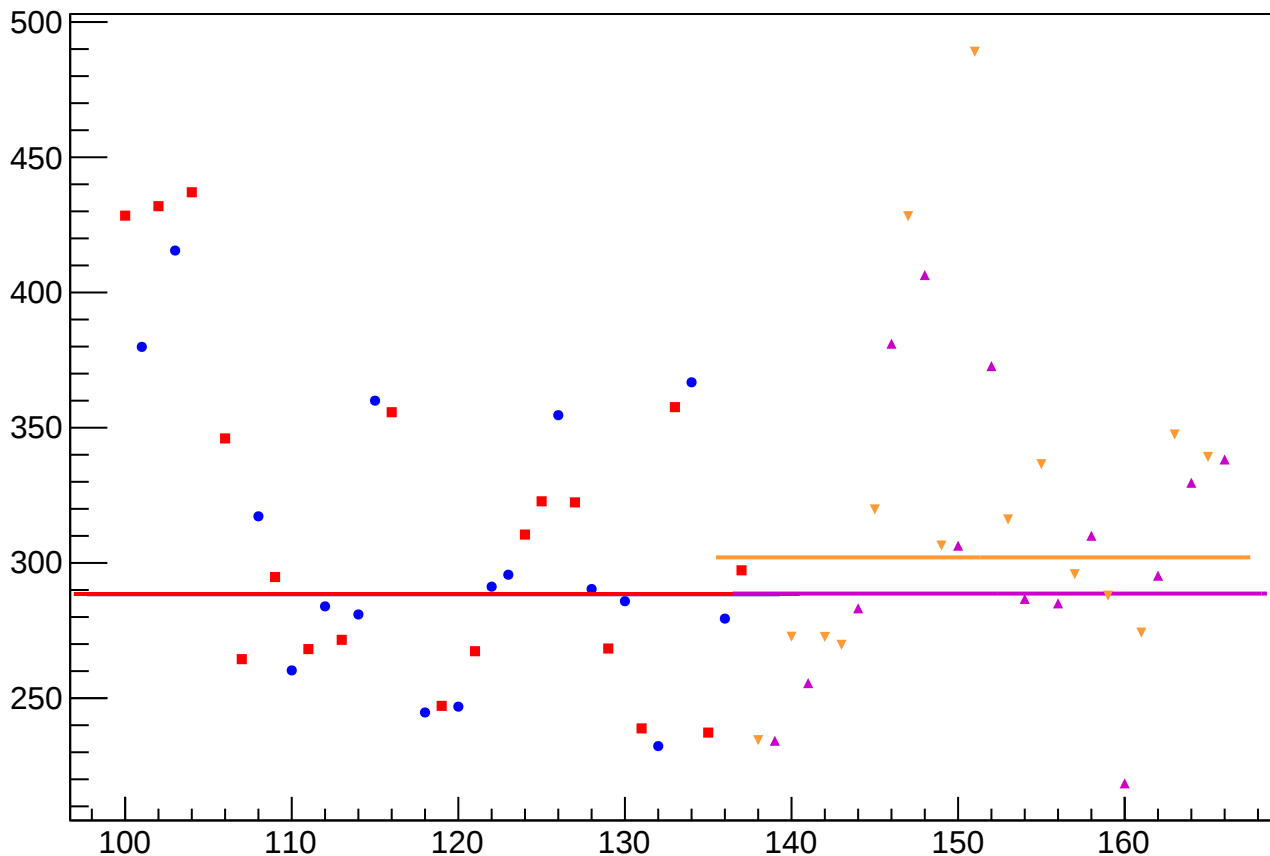
Right: -776.811±/79.465 χ^2/NDF : 476.3/35

In: -3.860±/70.614 χ^2/NDF : 654.1/30

Out: 185.816±/71.152 χ^2/NDF : 1066.7/33

All: 90.259±/50.121 χ^2/NDF : 1724.3/64

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: 288.672+/-0.064 χ^2/NDF : 619247.7/13

Left: 295.157+/-0.046 χ^2/NDF : 1252881.7/28

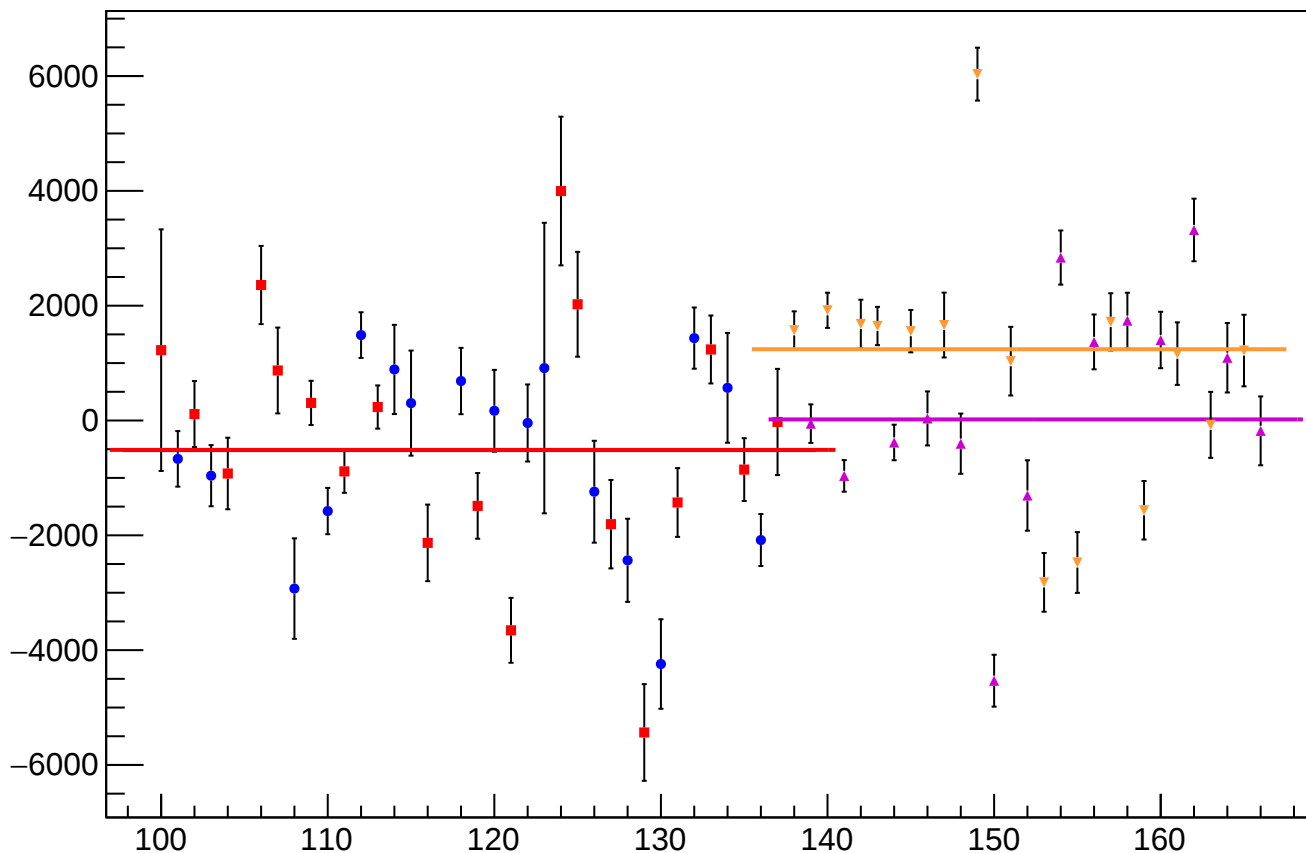
Right: 288.476+/-0.056 χ^2/NDF : 795230.9/35

In: 288.579+/-0.050 χ^2/NDF : 959073.4/30

Out: 296.480+/-0.050 χ^2/NDF : 1085125.8/33

All: 292.499+/-0.035 χ^2/NDF : 2056625.2/64

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894±147.326 χ^2/NDF : 108.0/16

Left Out: 1241.534±114.206 χ^2/NDF : 267.0/14

Right Out: -511.851±135.798 χ^2/NDF : 141.3/18

Left In: 19.061±115.959 χ^2/NDF : 225.5/13

Left: 639.606±81.369 χ^2/NDF : 548.9/28

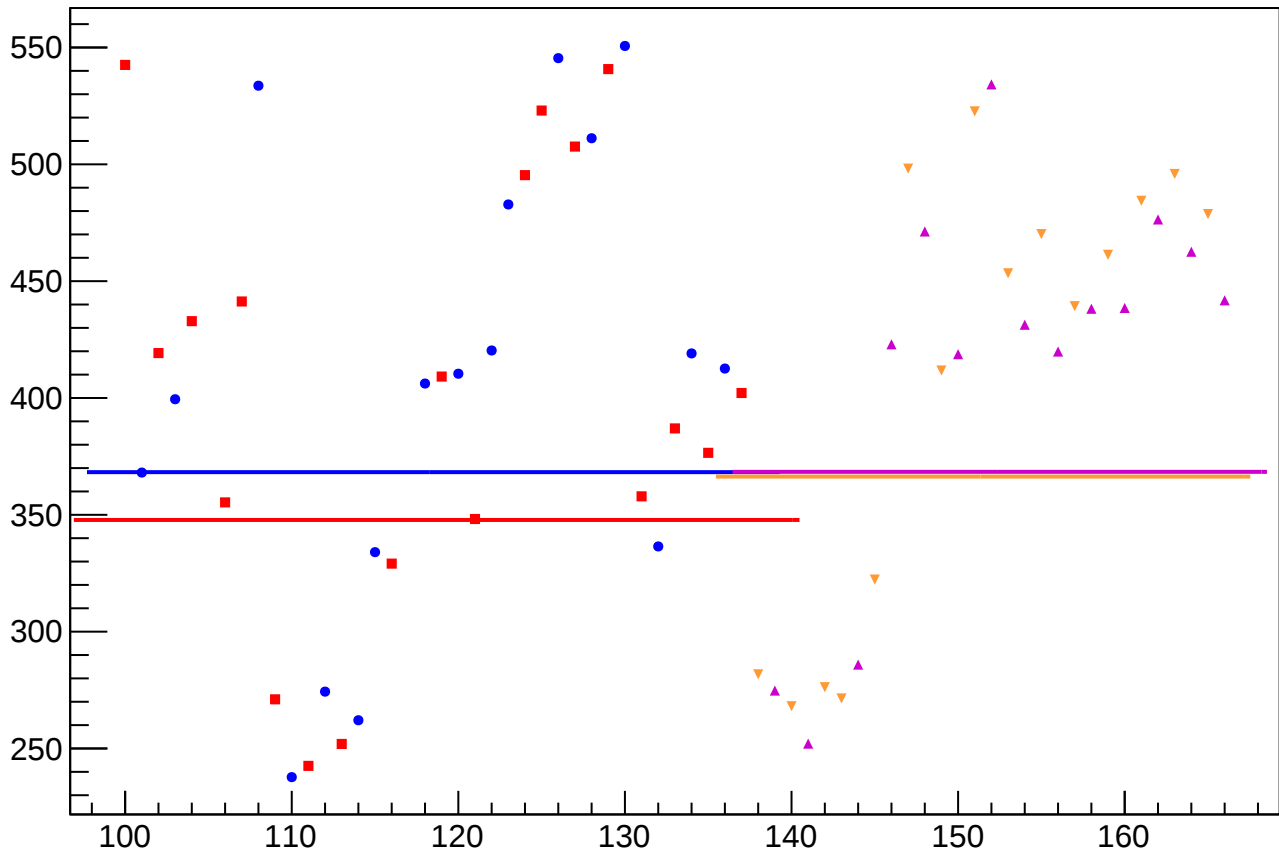
Right: -513.708±99.851 χ^2/NDF : 249.3/35

In: -185.575±91.120 χ^2/NDF : 341.7/30

Out: 515.155±87.405 χ^2/NDF : 505.9/33

All: 179.363±63.077 χ^2/NDF : 878.4/64

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: 368.398+/-0.082 χ^2/NDF :1227687.7/13

Left: 367.369+/-0.058 χ^2/NDF : 2619668.9/28

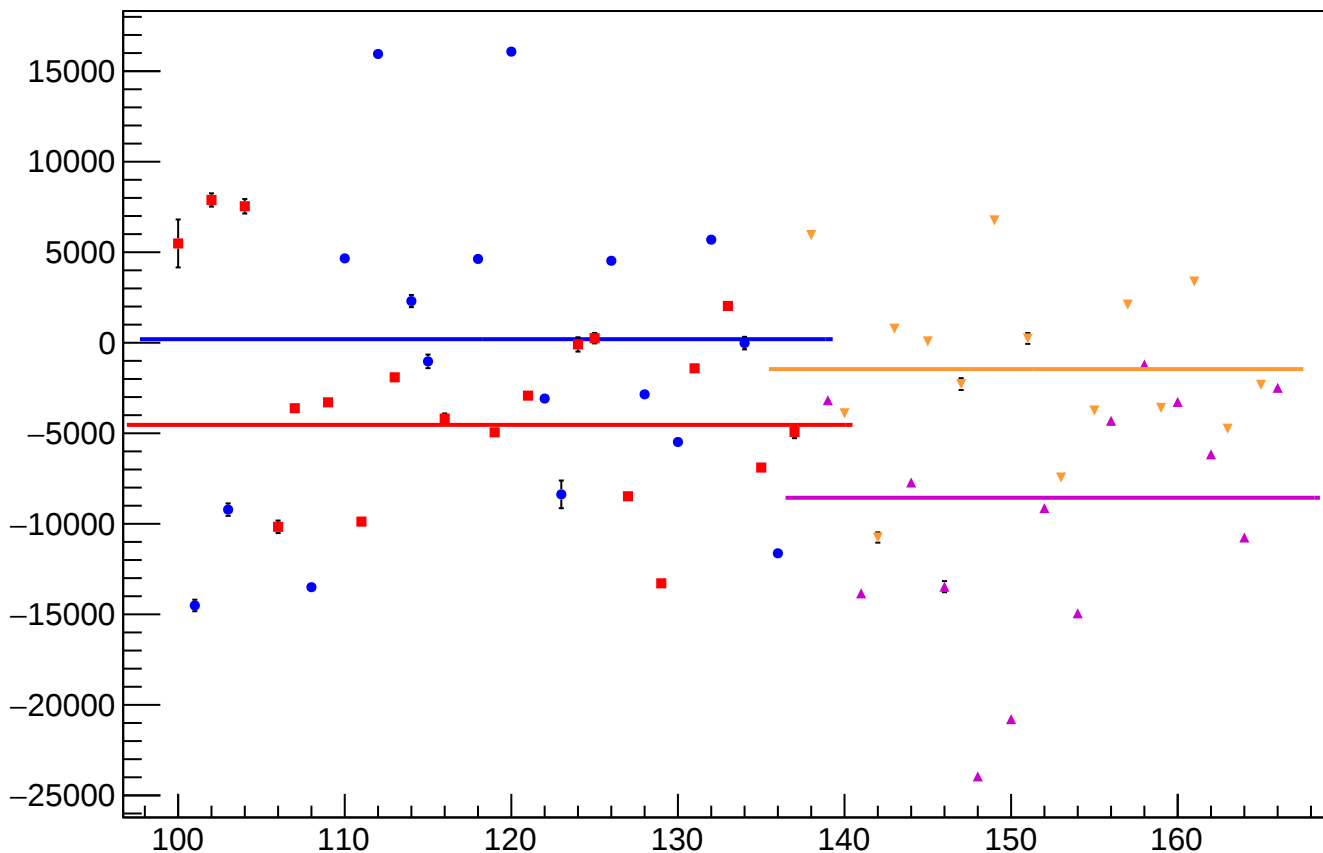
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 368.347+/-0.064 χ^2/NDF :1997805.3/30

Out: 358.678+/-0.062 χ^2/NDF :2235433.9/33

All: 363.311+/-0.045 χ^2/NDF : 4244967.7/64

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1452.743 ± 52.087 $\chi^2/\text{NDF}: 7587.7/14$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -8561.623 ± 53.501 $\chi^2/\text{NDF}: 14756.2/13$

Left: -4911.970 ± 37.321 $\chi^2/\text{NDF}: 31407.9/28$

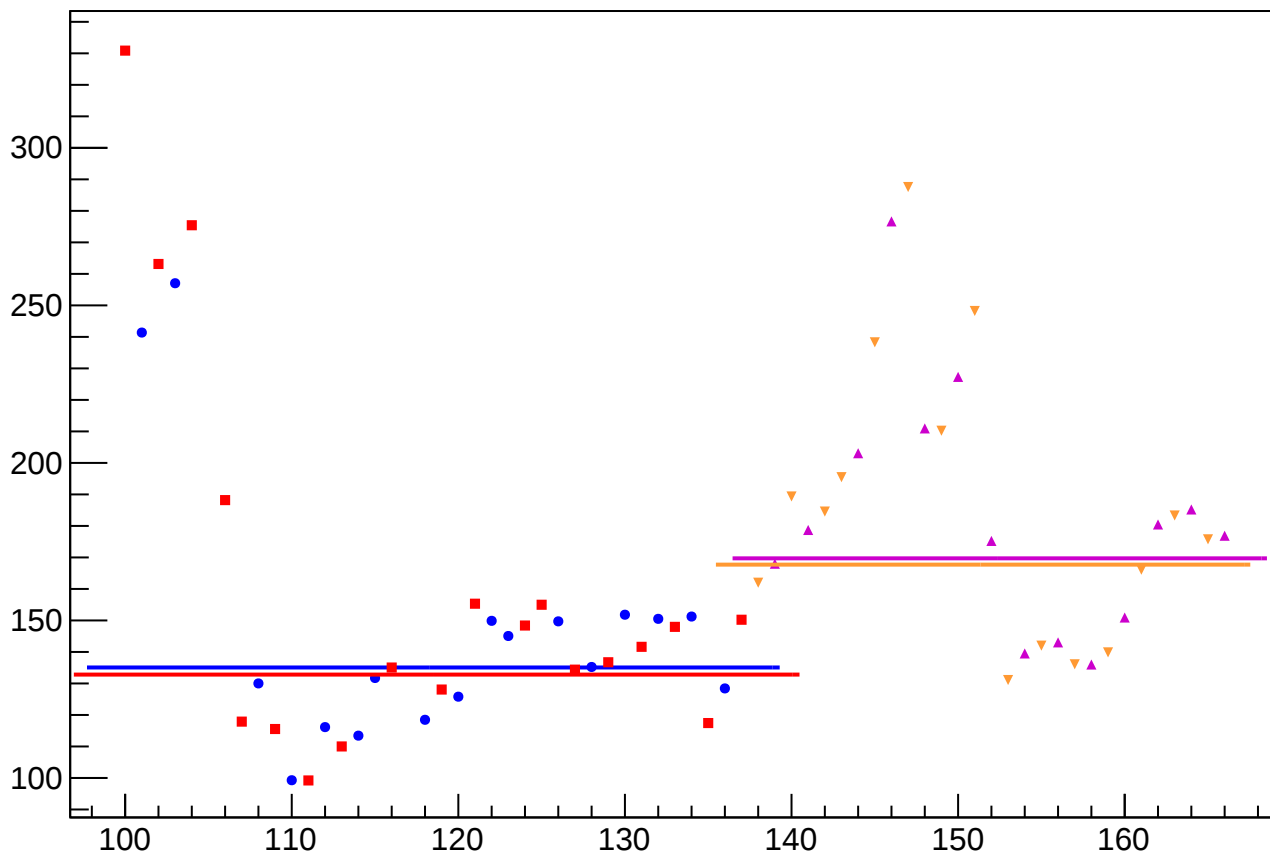
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4287.189 ± 38.282 $\chi^2/\text{NDF}: 58493.8/30$

Out: -2982.430 ± 36.963 $\chi^2/\text{NDF}: 16802.3/33$

All: -3611.949 ± 26.591 $\chi^2/\text{NDF}: 75897.3/64$

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: 169.710+/-0.038 χ^2/NDF :731116.7/13

Left: 168.687+/-0.026 χ^2/NDF : 1735876.6/28

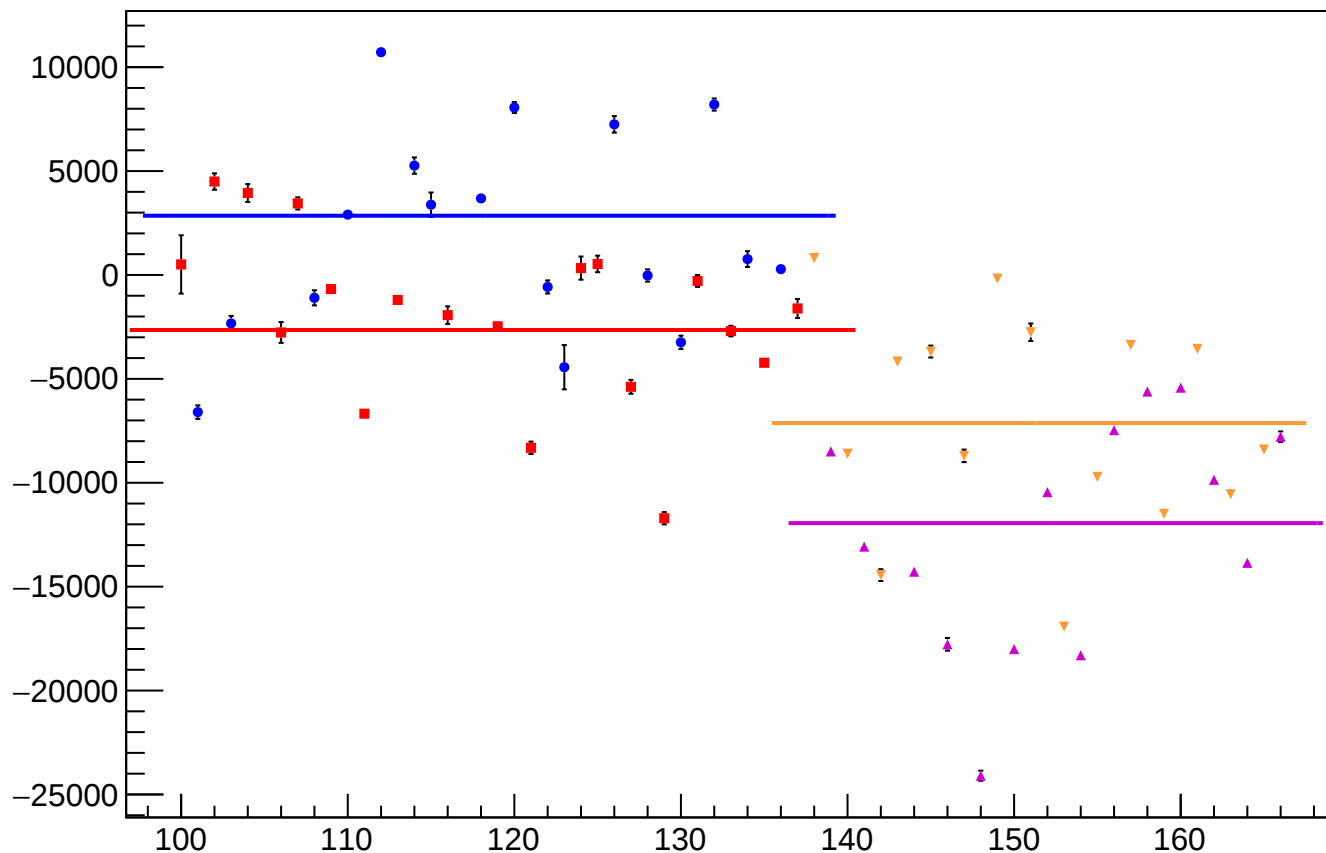
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 152.806+/-0.027 χ^2/NDF :1798947.3/30

Out: 150.392+/-0.026 χ^2/NDF :2280268.8/33

All: 151.556+/-0.019 χ^2/NDF : 4083332.5/64

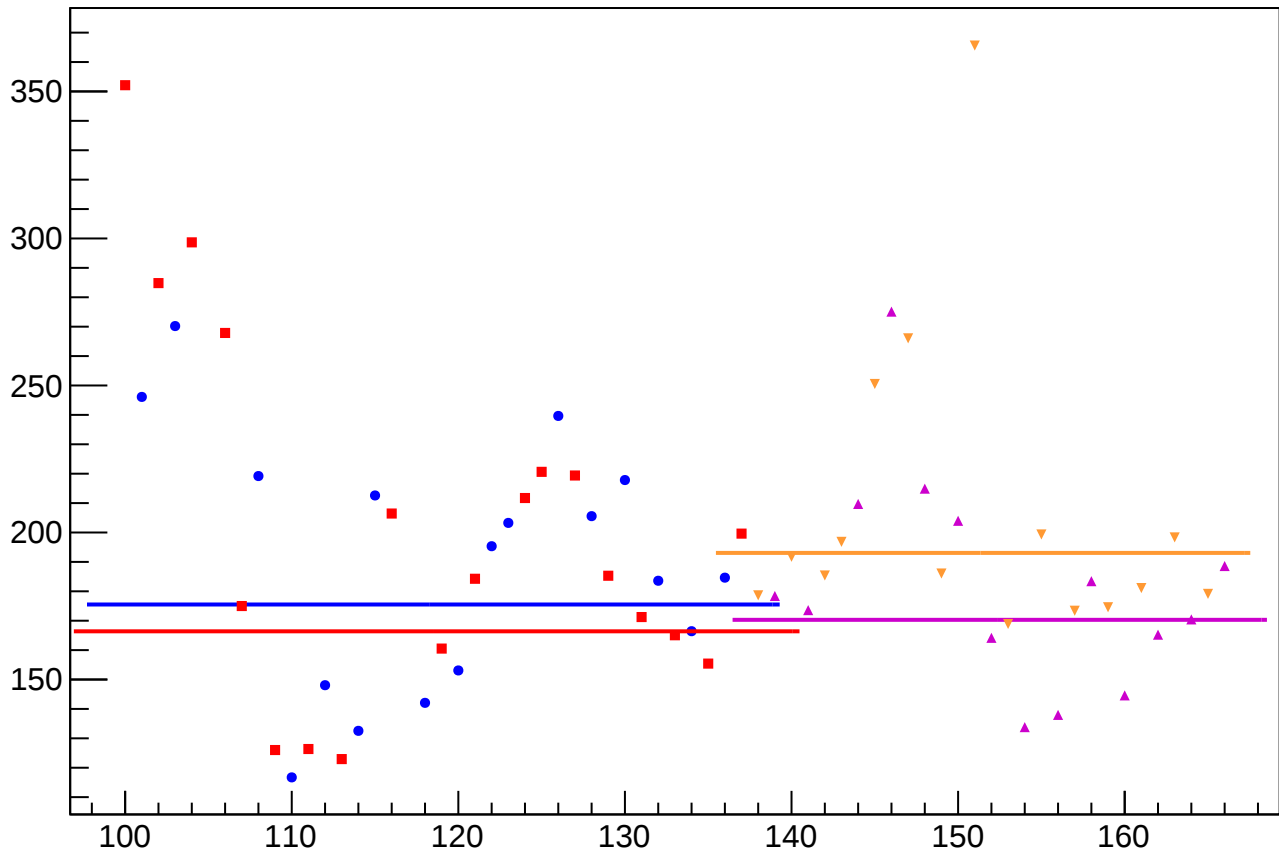
asym_bpm0i02aWS_mean vs Slug, Sign Corrected



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: -11942.145+/-53.752 χ^2/NDF : 9700.3/13

Left: -9780.961+/-39.906 χ^2/NDF : 20987.5/28
 Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35
 In: -6528.512+/-42.801 χ^2/NDF : 41597.6/30
 Out: -5107.720+/-44.139 χ^2/NDF : 13409.0/33
 All: -5839.974+/-30.727 χ^2/NDF : 55540.5/64

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: 170.300+/-0.038 χ^2/NDF : 686292.8/13

Left: 180.516+/-0.028 χ^2/NDF : 1475122.7/28

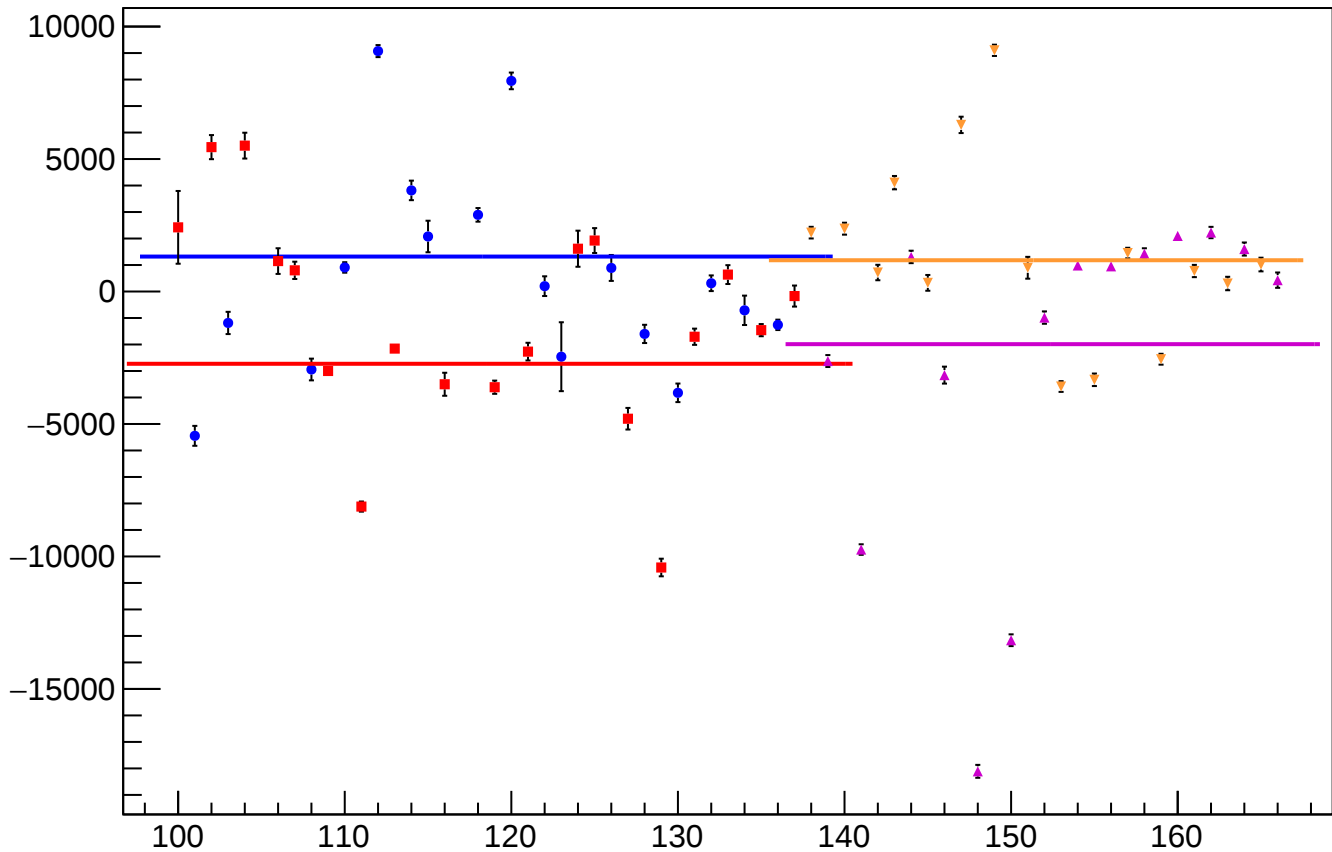
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 172.208+/-0.030 χ^2/NDF : 1382821.2/30

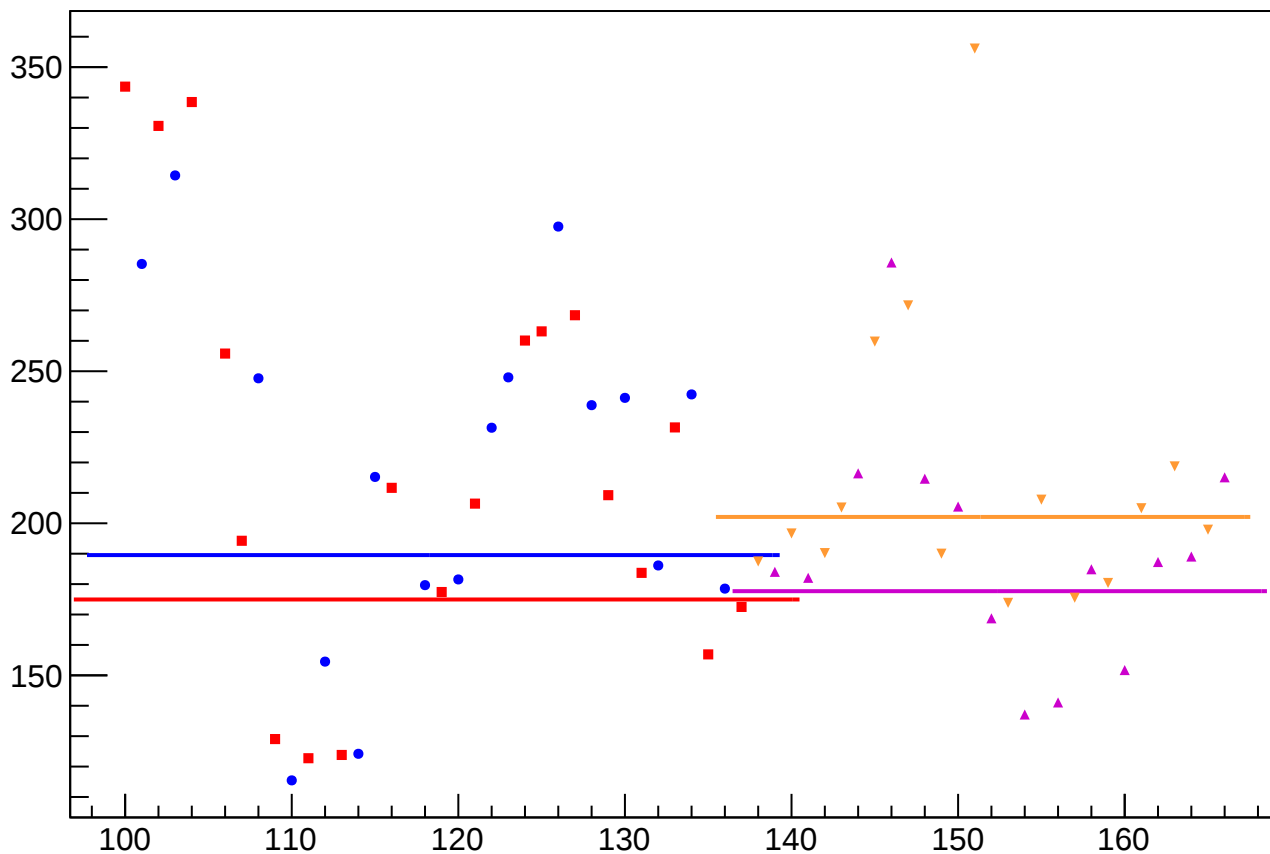
Out: 181.035+/-0.031 χ^2/NDF : 1738180.5/33

All: 176.486+/-0.022 χ^2/NDF : 3162225.4/64

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: 177.677 $\pm$ 0.040 χ^2 /NDF: 700581.7/13

Left: 188.614 $\pm$ 0.029 χ^2 /NDF: 1452907.7/28

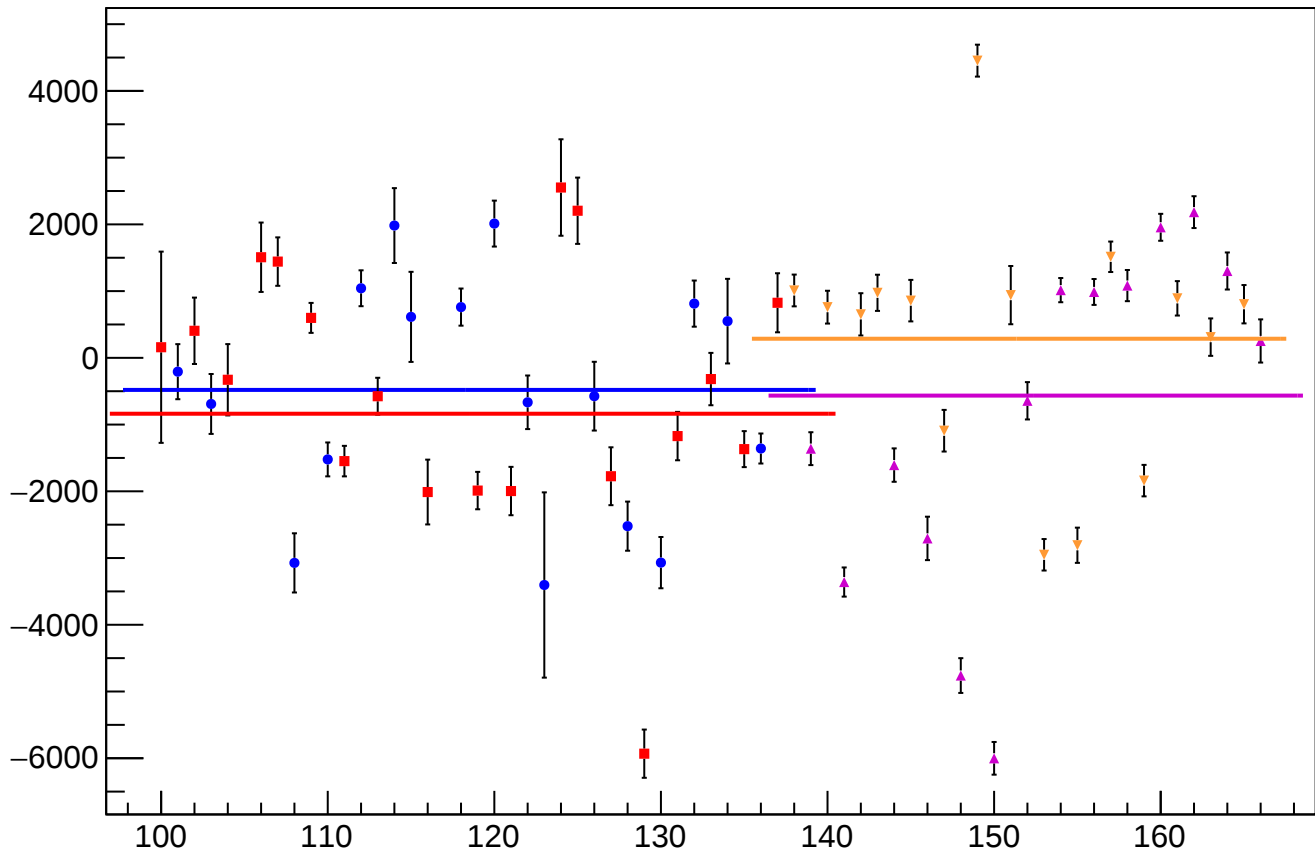
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 181.785 $\pm$ 0.032 χ^2 /NDF: 1712269.7/30

Out: 190.094 $\pm$ 0.033 χ^2 /NDF: 2047707.9/33

All: 185.835 $\pm$ 0.023 χ^2 /NDF: 3792639.0/64

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: -565.851±/63.631 χ^2/NDF :1516.8/13

Left: -173.777±/46.757 χ^2/NDF : 2393.1/28

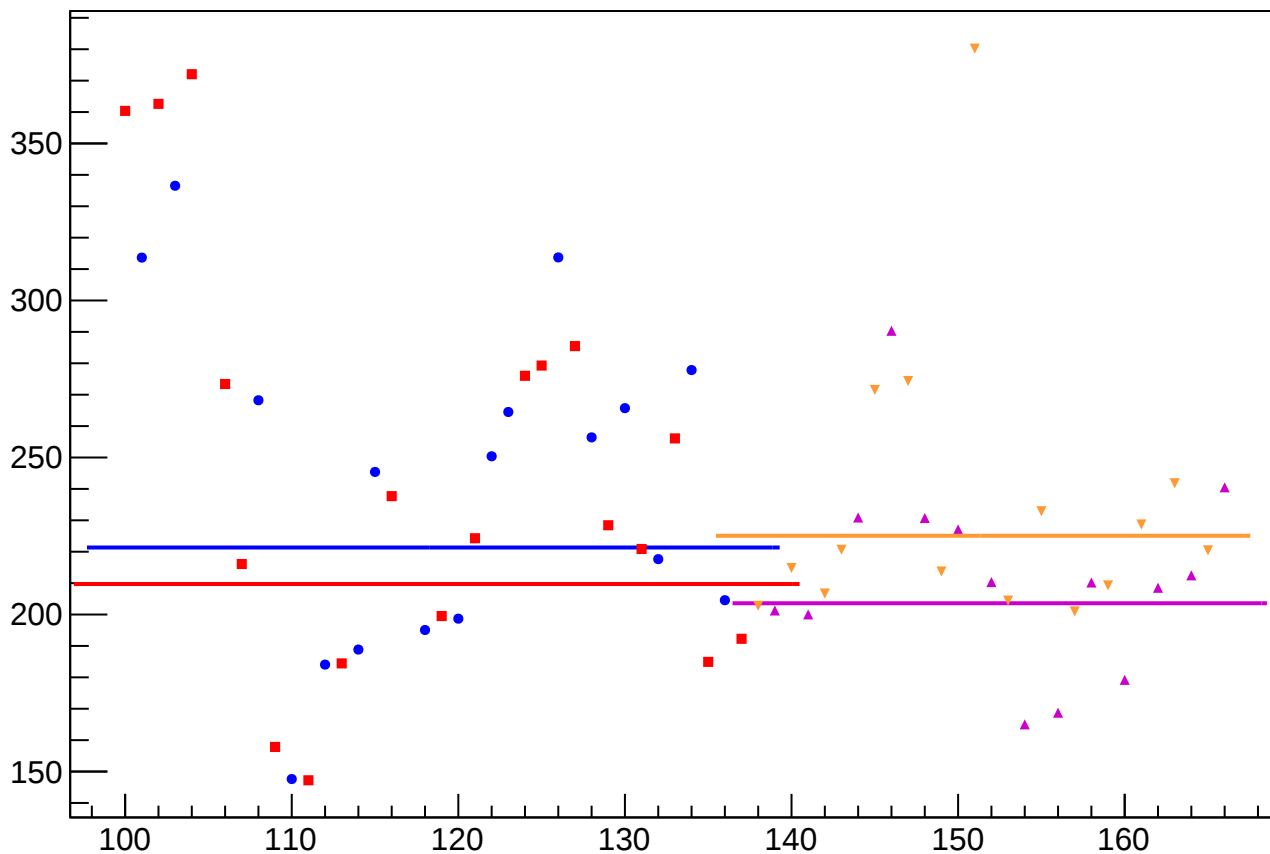
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -536.852±/51.691 χ^2/NDF :1808.1/30

Out: -177.359±/52.831 χ^2/NDF :1338.8/33

All: -361.026±/36.948 χ^2/NDF : 3170.5/64

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 ± 0.063 χ^2/NDF : 645688.1/16

Left Out: 225.080 ± 0.049 χ^2/NDF : 436424.1/14

Right Out: 209.717 ± 0.058 χ^2/NDF : 883917.7/18

Left In: 203.590 ± 0.045 χ^2/NDF : 422645.2/13

Left: 213.477 ± 0.033 χ^2/NDF : 964013.2/28

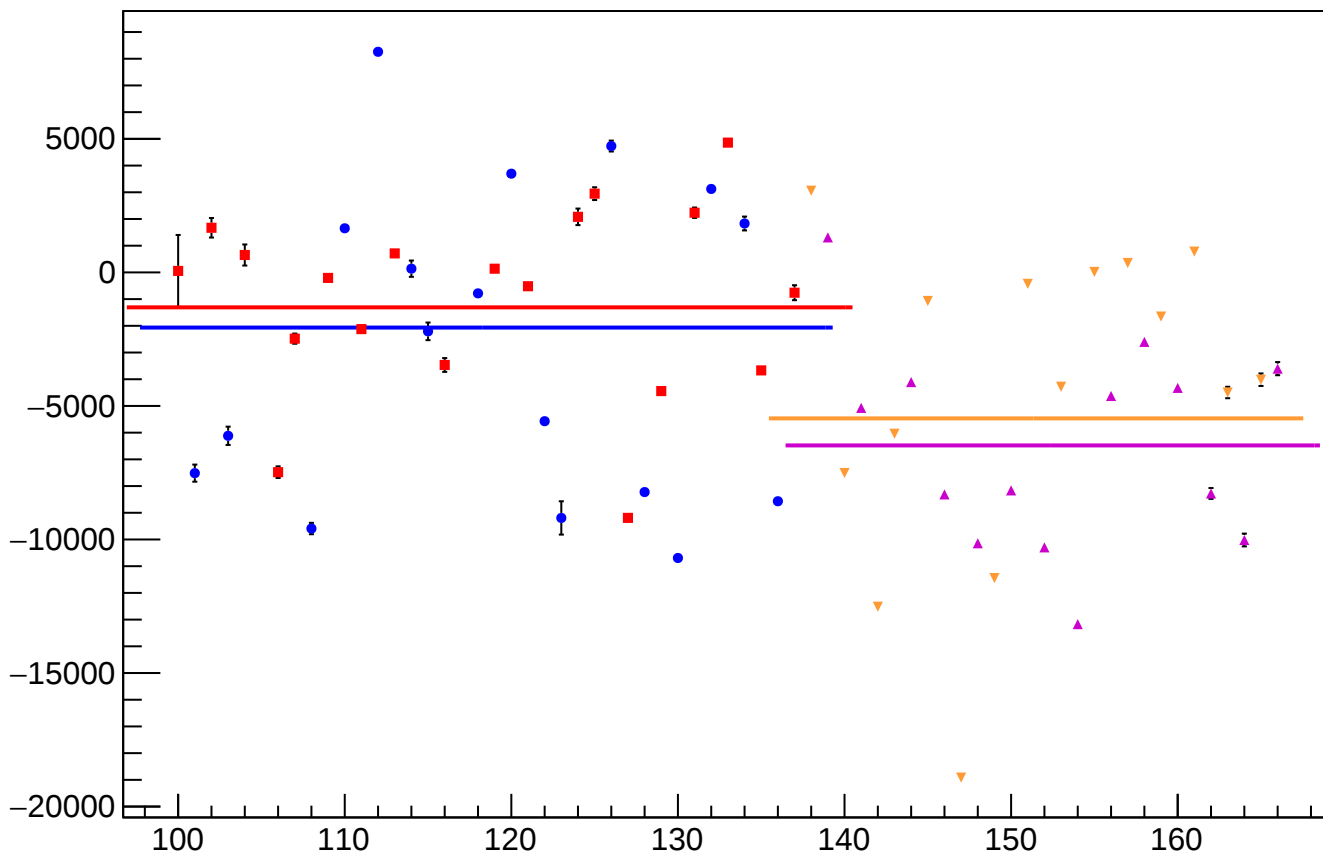
Right: 215.095 ± 0.043 χ^2/NDF : 1548093.3/35

In: 209.627 ± 0.037 χ^2/NDF : 1121268.5/30

Out: 218.740 ± 0.037 χ^2/NDF : 1361334.5/33

All: 214.084 ± 0.026 χ^2/NDF : 2513006.0/64

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: -6478.135+/-38.921 χ^2/NDF : 9102.2/13

Left: -5959.373+/-27.179 χ^2/NDF : 37649.9/28

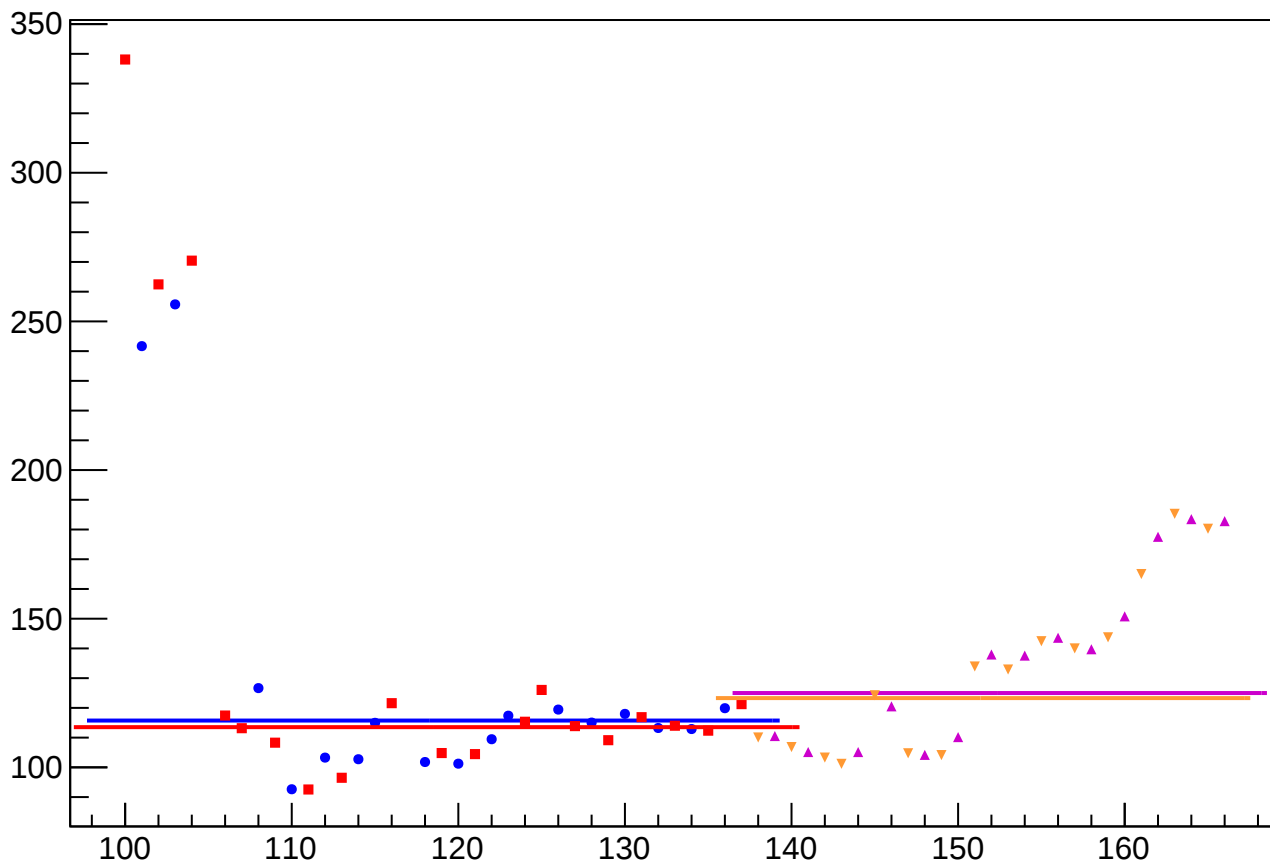
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4697.470+/-30.060 χ^2/NDF : 30822.8/30

Out: -3736.802+/-29.020 χ^2/NDF : 39080.2/33

All: -4200.236+/-20.878 χ^2/NDF : 70431.6/64

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: 124.997 ± 0.028 $\chi^2/\text{NDF}: 718192.0/13$

Left: 124.125 ± 0.019 $\chi^2/\text{NDF}: 1458310.5/28$

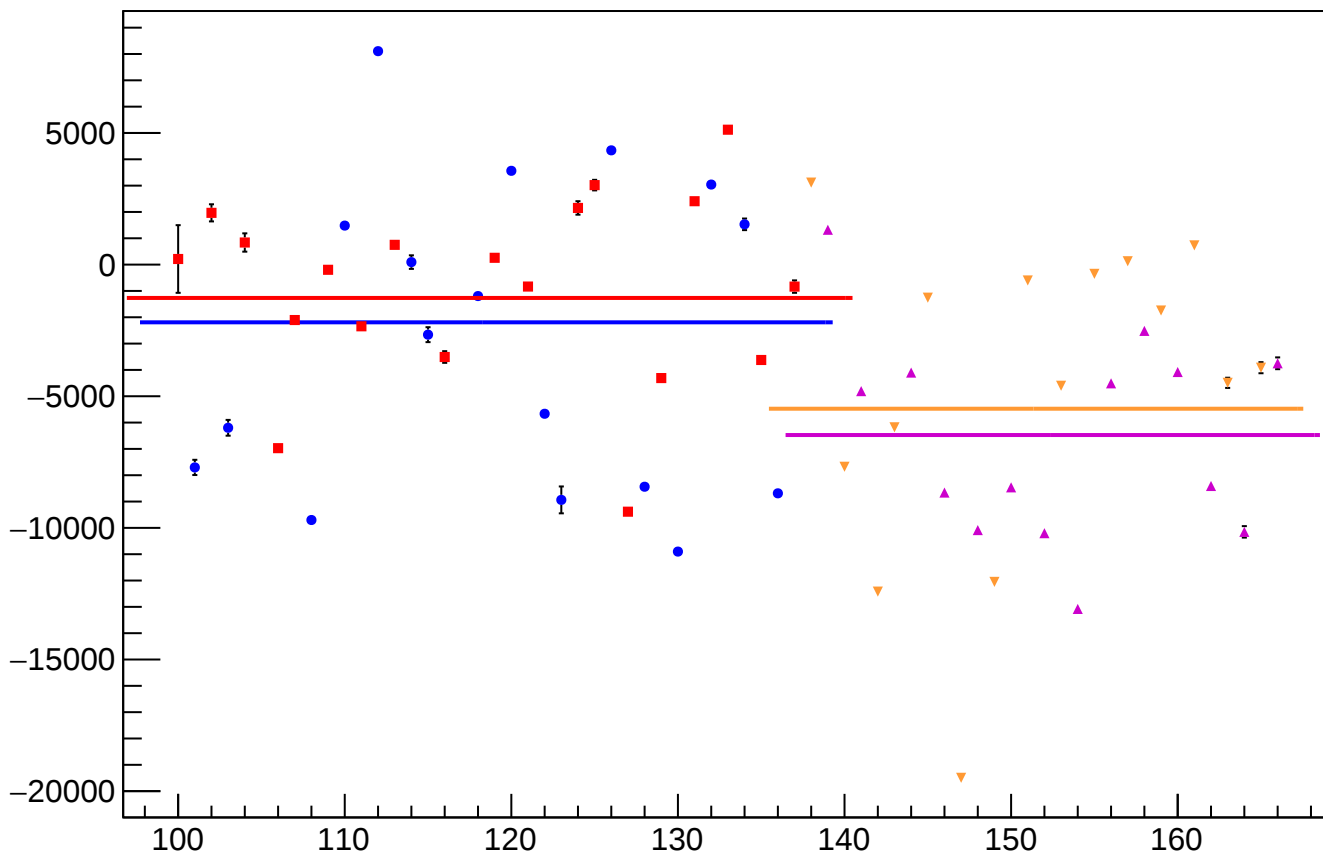
Right: 114.574 ± 0.023 $\chi^2/\text{NDF}: 1542972.7/35$

In: 121.262 ± 0.021 $\chi^2/\text{NDF}: 1507859.2/30$

Out: 119.229 ± 0.021 $\chi^2/\text{NDF}: 1589930.7/33$

All: 120.210 ± 0.015 $\chi^2/\text{NDF}: 3102523.8/64$

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: -6473.320 ± 35.644 $\chi^2/\text{NDF}: 11353.8/13$

Left: -5955.102 ± 24.733 $\chi^2/\text{NDF}: 46046.2/28$

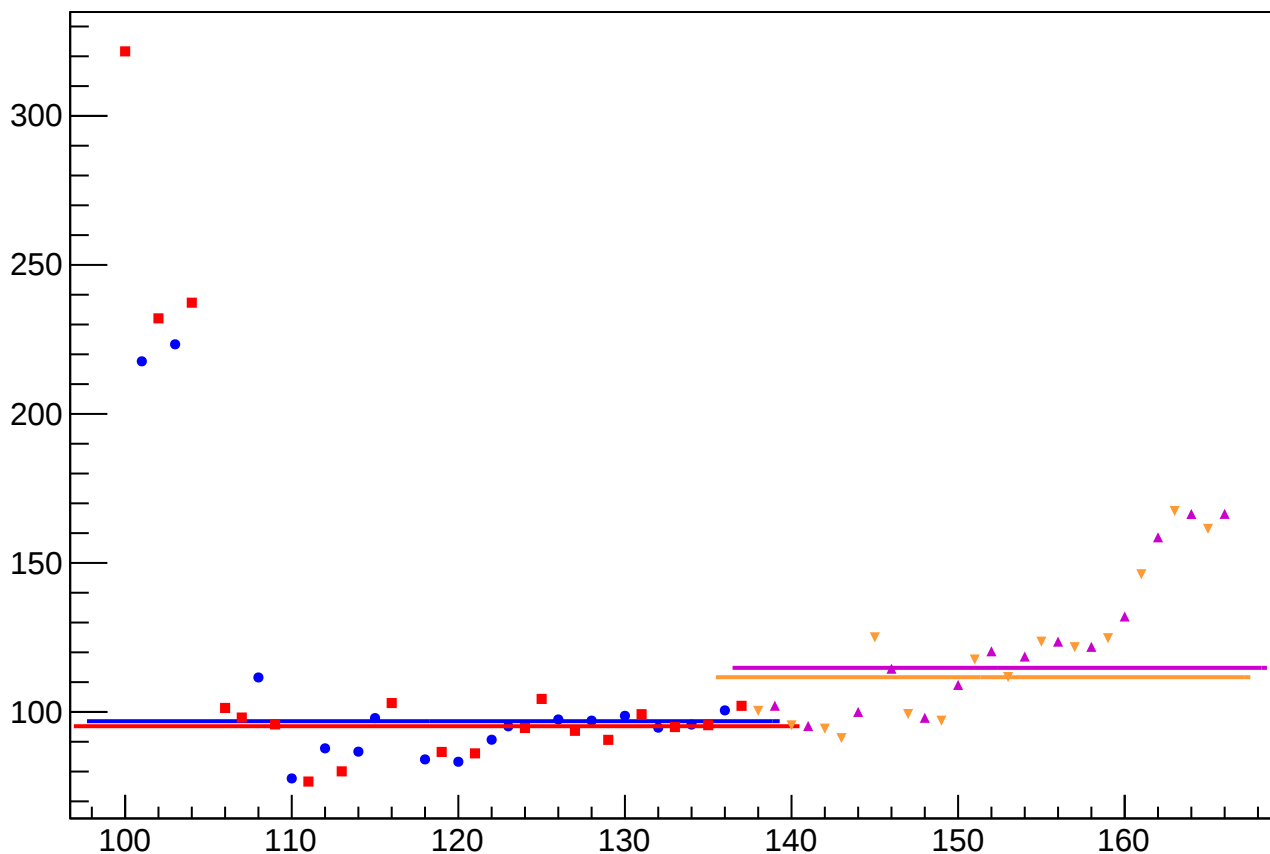
Right: -1706.759 ± 27.550 $\chi^2/\text{NDF}: 31645.9/35$

In: -4575.597 ± 26.595 $\chi^2/\text{NDF}: 40561.9/30$

Out: -3584.454 ± 25.496 $\chi^2/\text{NDF}: 49573.3/33$

All: -4059.132 ± 18.405 $\chi^2/\text{NDF}: 90859.0/64$

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: 114.800+/-0.025 χ^2/NDF : 556567.4/13

Left: 113.169+/-0.017 χ^2/NDF : 1206174.2/28

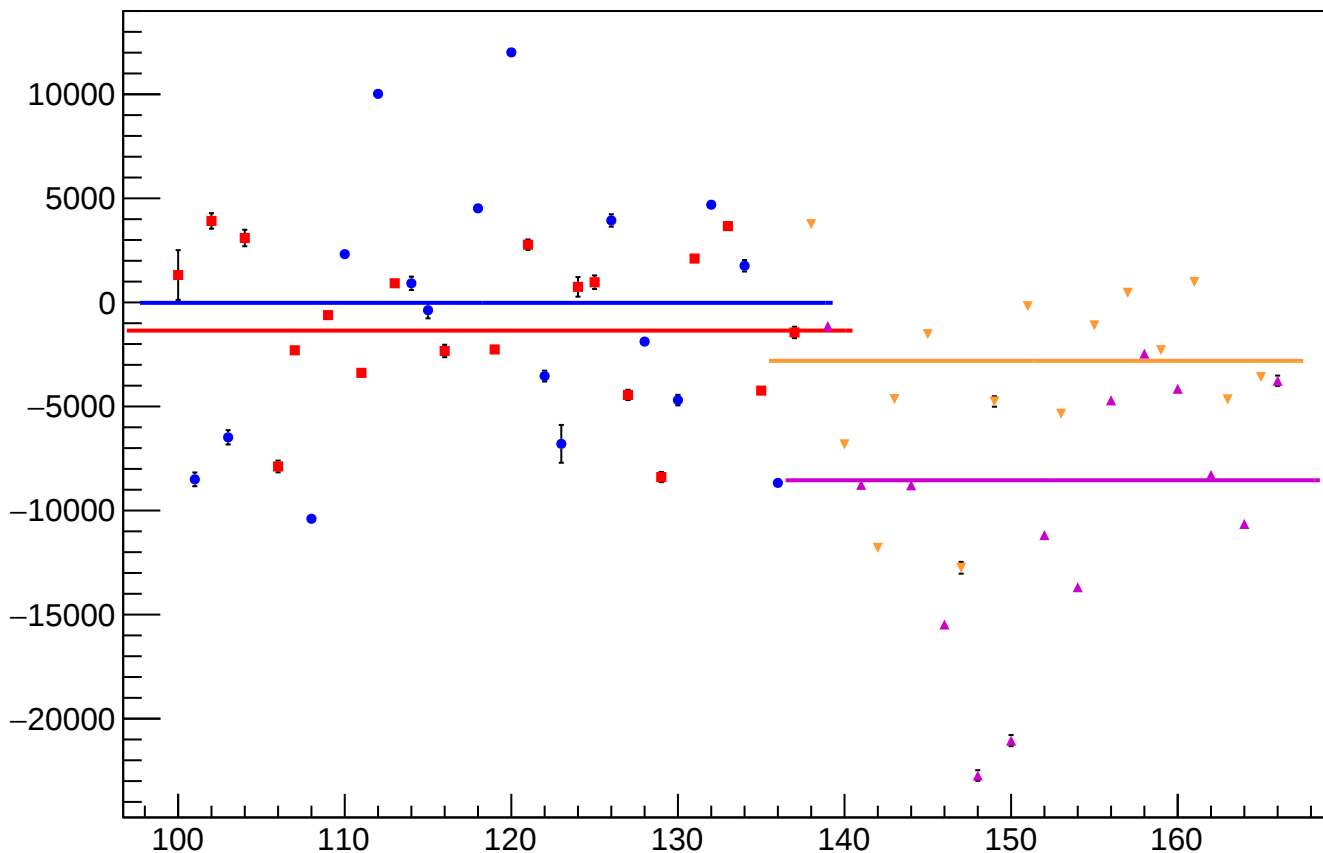
Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35

In: 106.862+/-0.019 χ^2/NDF : 1597549.2/30

Out: 104.272+/-0.018 χ^2/NDF : 1707100.2/33

All: 105.513+/-0.013 χ^2/NDF : 3314537.2/64

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -2805.496 ± 48.190 $\chi^2/\text{NDF}: 6718.0/14$

Right Out: -1353.461 ± 52.367 $\chi^2/\text{NDF}: 3837.2/18$

Left In: -8546.103 ± 50.564 $\chi^2/\text{NDF}: 12406.5/13$

Left: -5537.837 ± 34.884 $\chi^2/\text{NDF}: 25878.9/28$

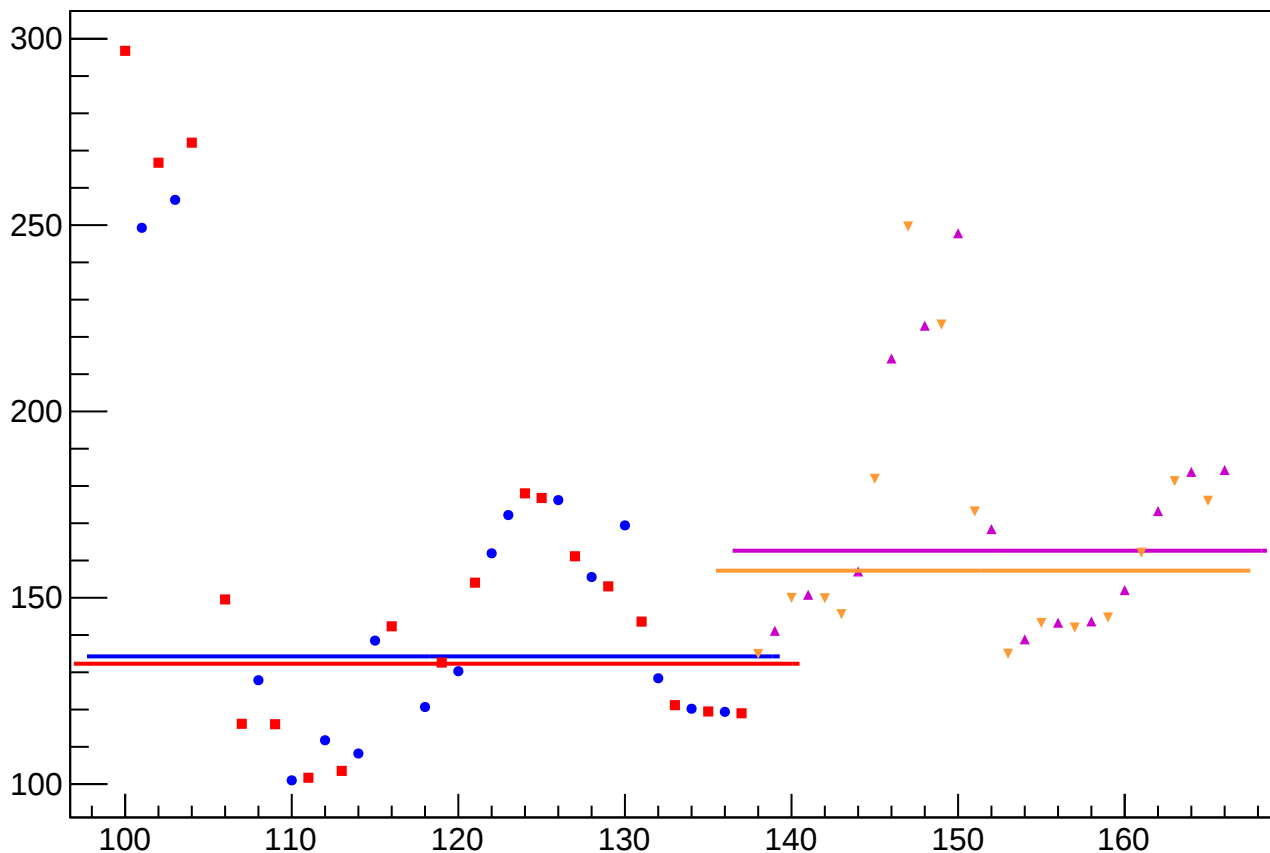
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4613.133 ± 37.113 $\chi^2/\text{NDF}: 41883.0/30$

Out: -2139.693 ± 35.460 $\chi^2/\text{NDF}: 10971.5/33$

All: -3320.116 ± 25.638 $\chi^2/\text{NDF}: 55176.5/64$

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: 162.623 $\pm$ 0.036 χ^2 /NDF: 604261.0/13

Left: 159.819 $\pm$ 0.025 χ^2 /NDF: 1192539.7/28

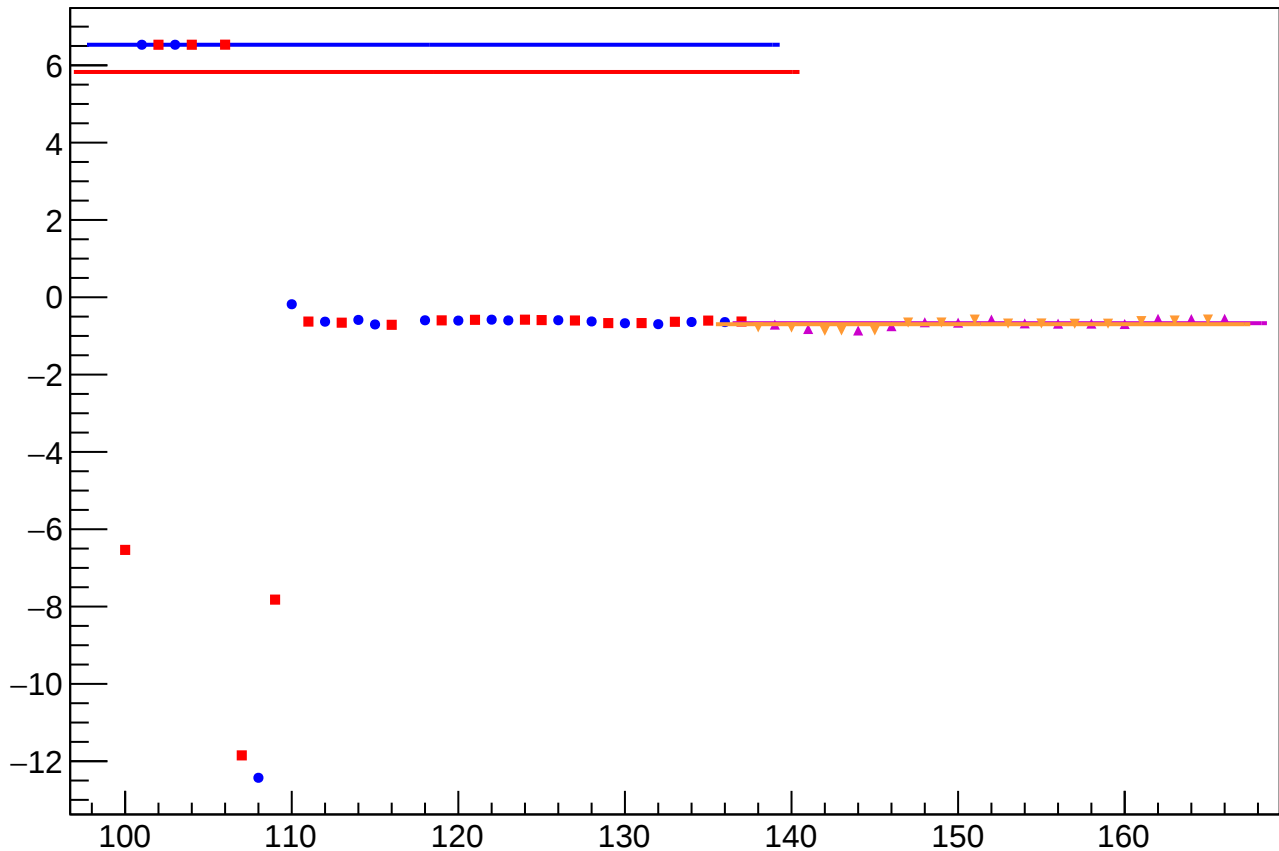
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 149.543 $\pm$ 0.026 χ^2 /NDF: 1683033.4/30

Out: 145.822 $\pm$ 0.025 χ^2 /NDF: 1692651.2/33

All: 147.598 $\pm$ 0.018 χ^2 /NDF: 3386192.4/64

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532 $\pm$ 0.000 χ^2 /NDF: 127906780672.7/16

Left Out: -0.697 $\pm$ 0.000 χ^2 /NDF: 104830553.5/14

Right Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 755948646460090.5/18

Left In: -0.670 $\pm$ 0.000 χ^2 /NDF: 94175895.7/13

Left: -0.684 $\pm$ 0.000 χ^2 /NDF: 202555008.3/28

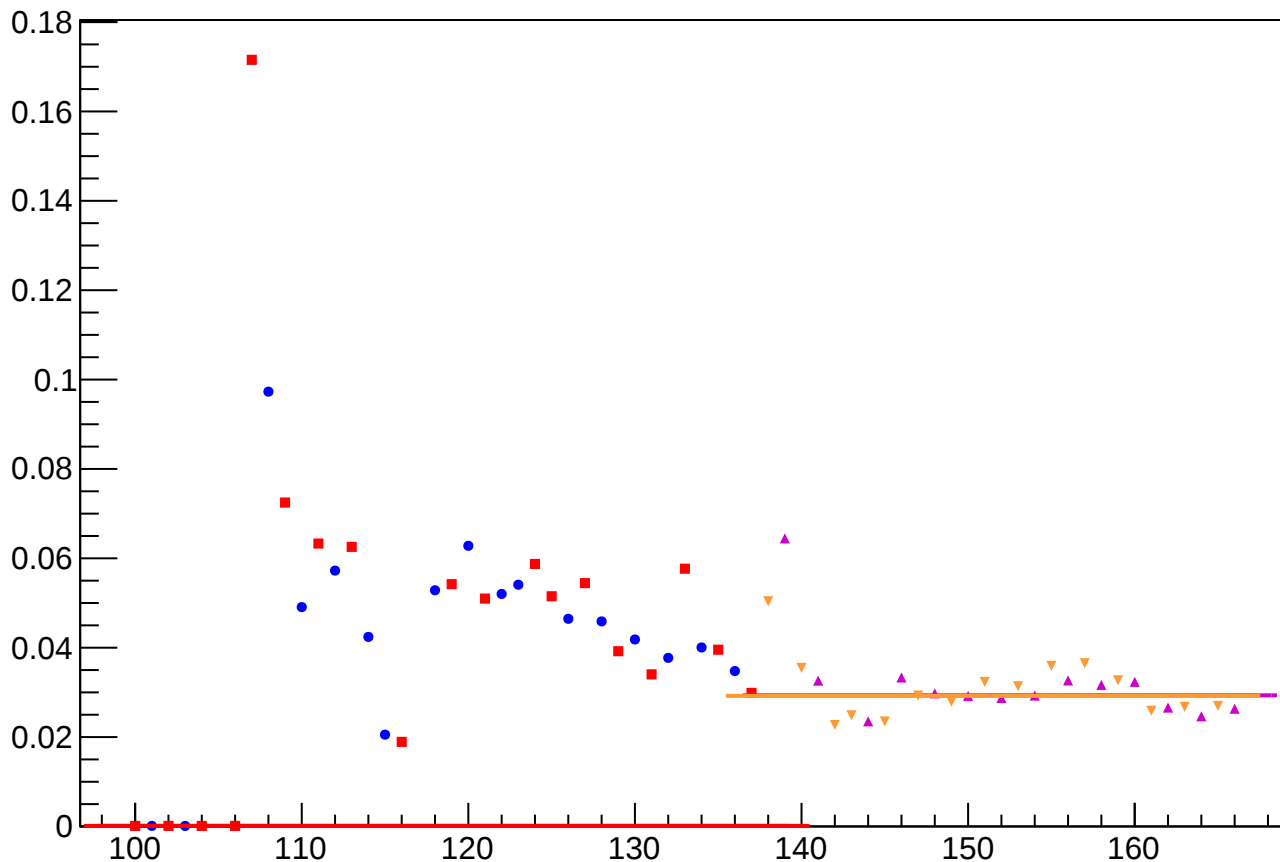
Right: 6.155 $\pm$ 0.000 χ^2 /NDF: 776079822212880.5/30

In: 6.531 $\pm$ 0.000 χ^2 /NDF: 649439659724.6/30

Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 756385581729773.0/30

All: 6.154 $\pm$ 0.000 χ^2 /NDF: 77703007791510.0/60

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: 0.029 $\pm$ 0.000 χ^2/NDF : 591817.6/13

Left: 0.029 $\pm$ 0.000 χ^2/NDF : 1161528.9/28

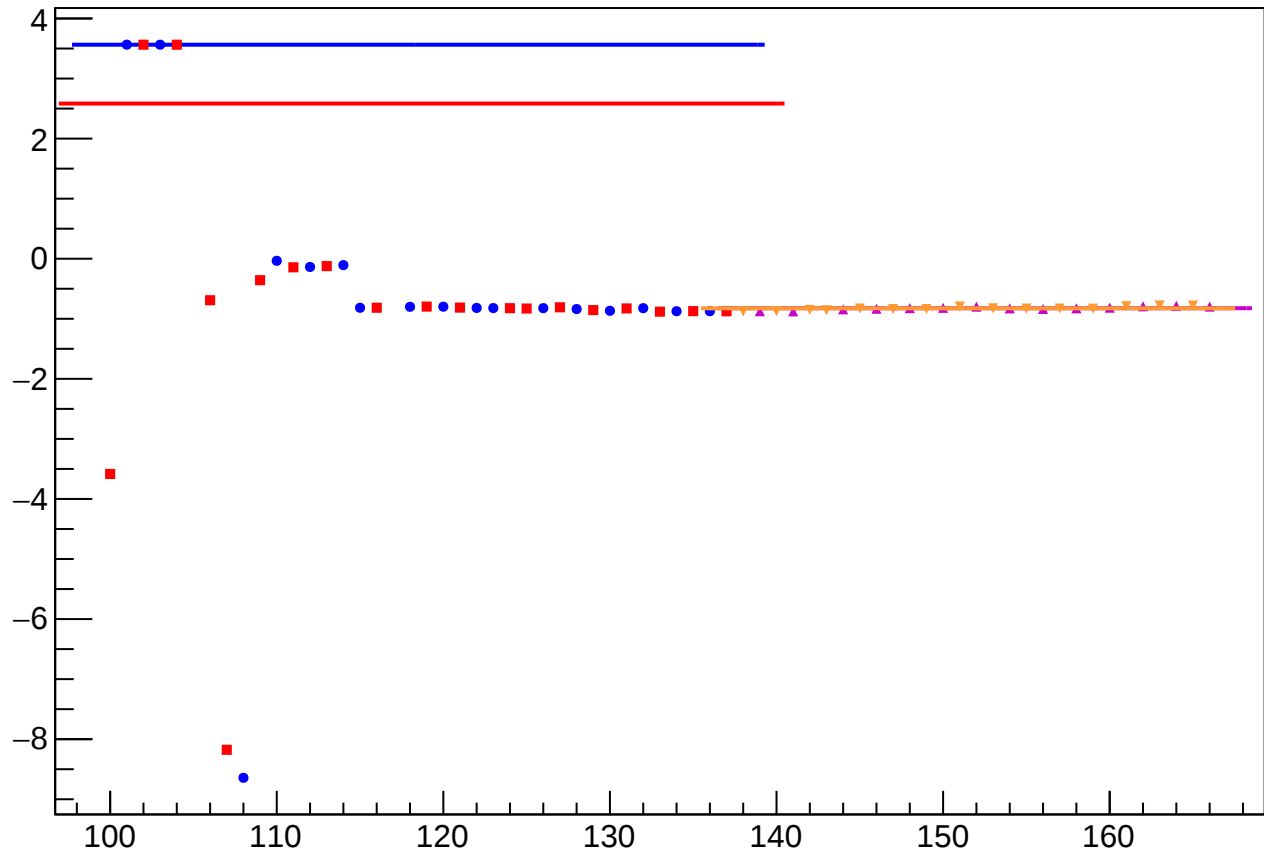
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 18402211.3/35

In: 0.000 $\pm$ 0.000 χ^2/NDF : 26785102.7/30

Out: 0.000 $\pm$ 0.000 χ^2/NDF : 27325948.8/33

All: 0.000 $\pm$ 0.000 χ^2/NDF : 54111446.3/64

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.826+/-0.000 χ^2/NDF : 122713701.2/14

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.824+/-0.000 χ^2/NDF : 97992451.2/13

Left: -0.825+/-0.000 χ^2/NDF : 220871325.4/28

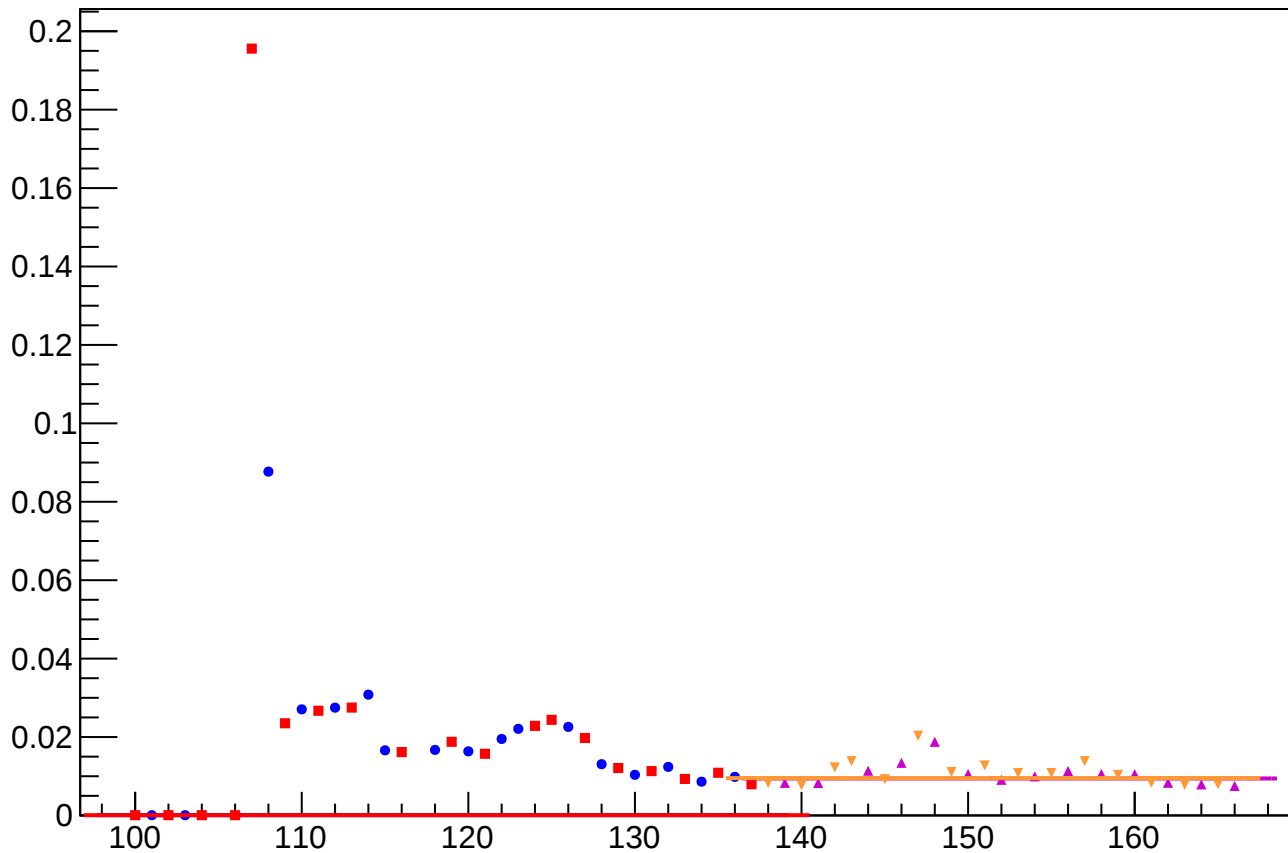
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.562+/-0.000 χ^2/NDF : 2326453467888.9/30

Out: 2.582+/-0.000 χ^2/NDF : 1254602411287433.2

All: 3.039+/-0.000 χ^2/NDF : 13851012139160

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: 0.009+/-0.000 χ^2/NDF :746884.4/13

Left: 0.009+/-0.000 χ^2/NDF : 1762878.0/28

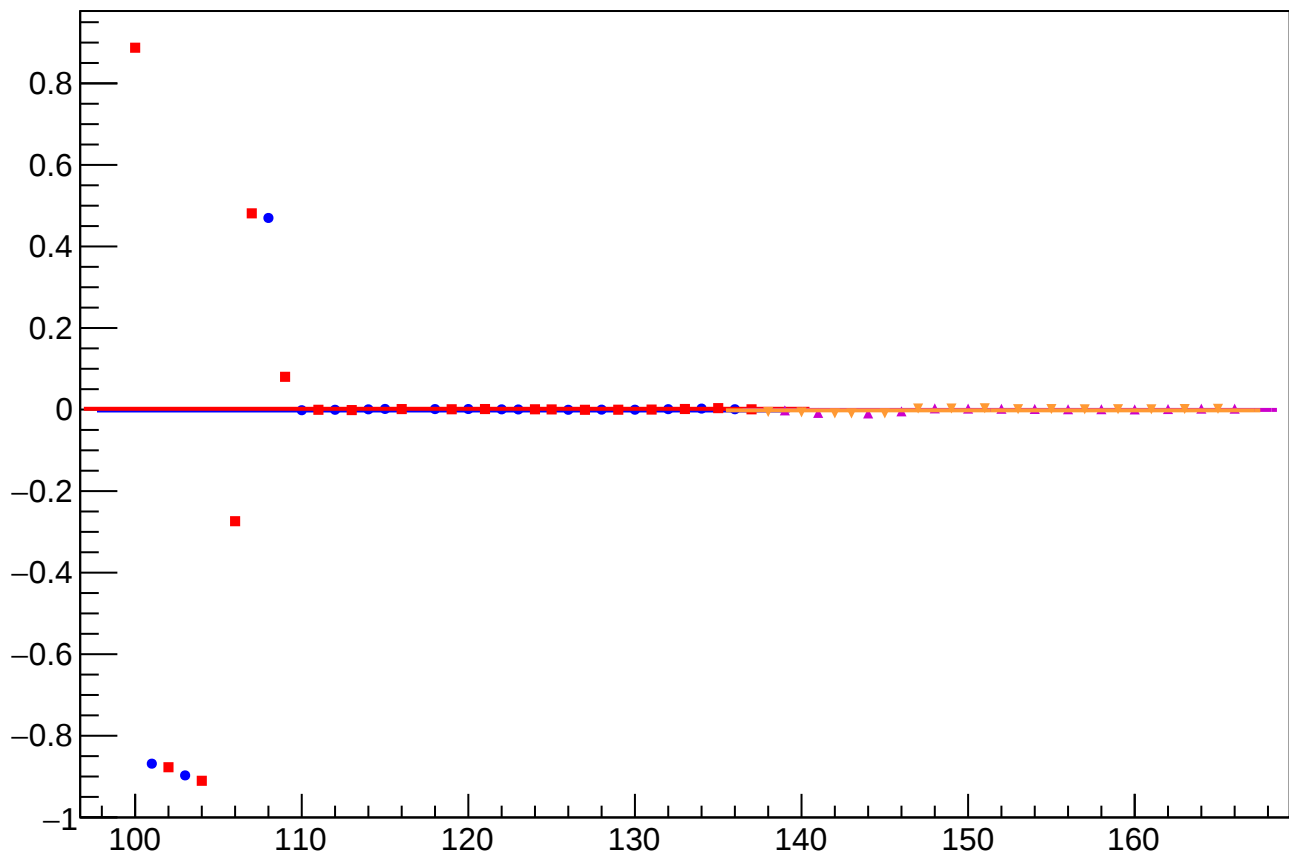
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :27343441.0/30

Out: 0.000+/-0.000 χ^2/NDF :27782113.9/33

All: 0.000+/-0.000 χ^2/NDF : 55126143.7/64

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 : 65486723.3/13

Left: -0.001+/-0.000 χ^2/NDF : 156476464.1/28

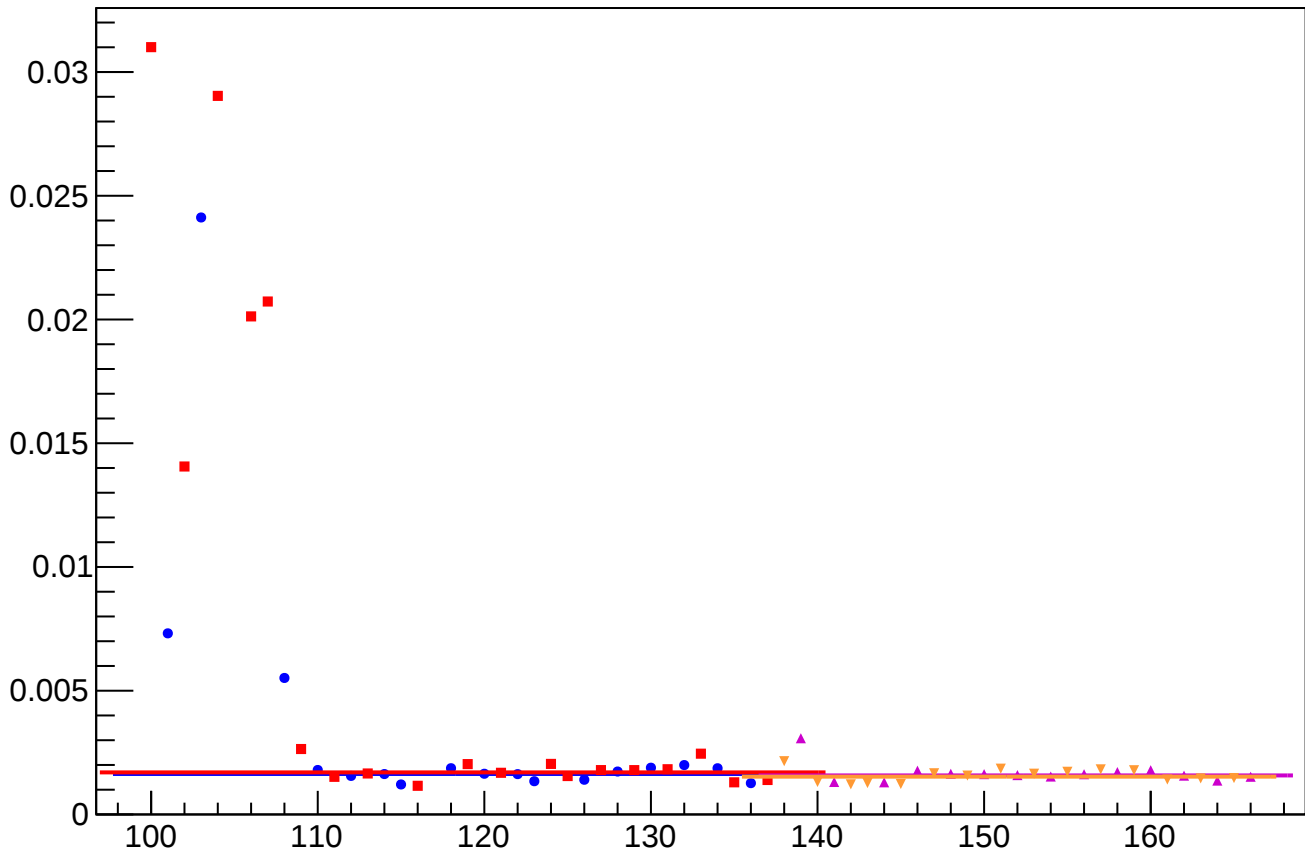
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9863165584.6/30

Out: -0.001+/-0.000 χ^2/NDF : 3145951265.3/33

All: -0.001+/-0.000 χ^2/NDF : 13009797499.9/76

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1919127.9/16

Left Out: 0.002+/-0.000 χ^2/NDF : 419378.7/14

Right Out: 0.002+/-0.000 χ^2/NDF : 3025332.9/18

Left In: 0.002+/-0.000 χ^2/NDF : 498466.4/13

Left: 0.002+/-0.000 χ^2/NDF : 926538.1/28

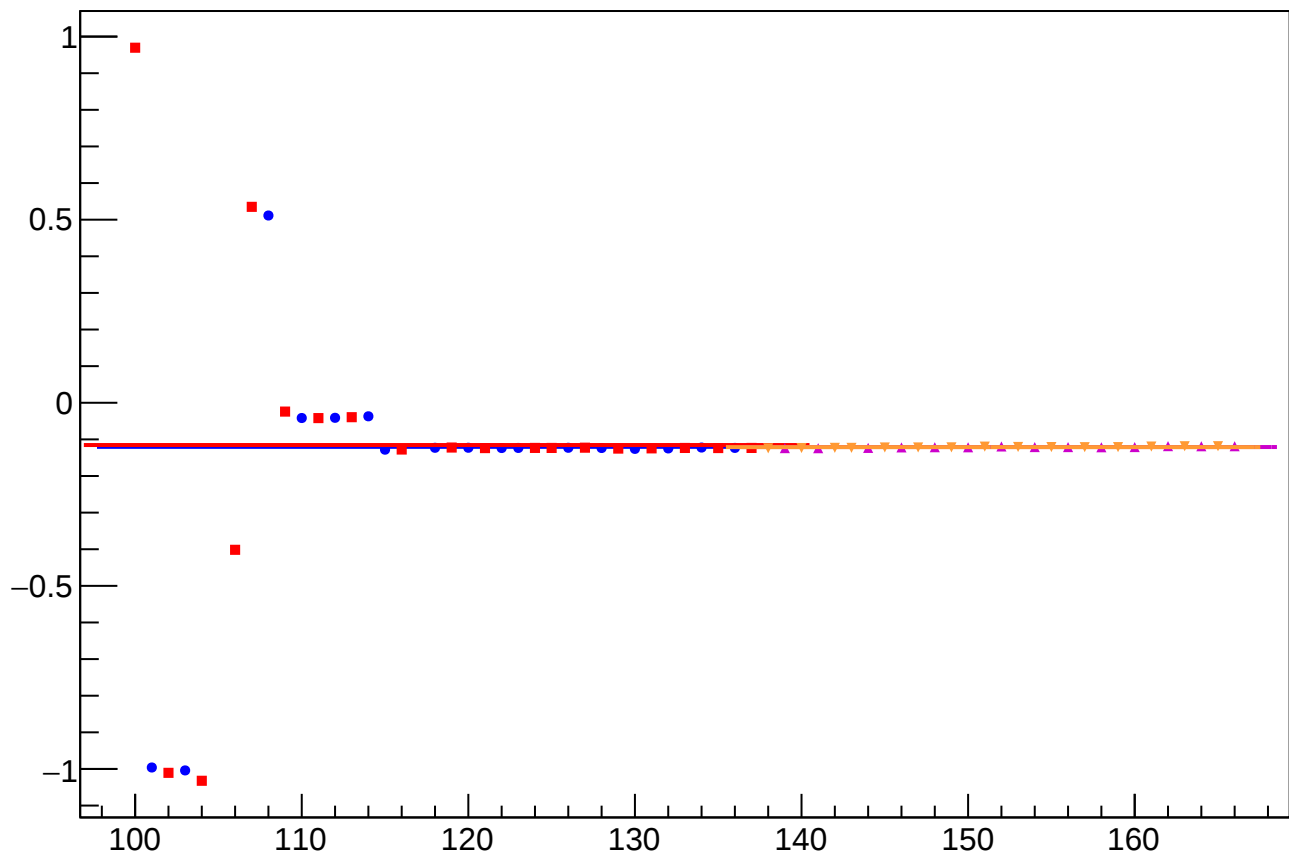
Right: 0.002+/-0.000 χ^2/NDF : 4950980.4/35

In: 0.002+/-0.000 χ^2/NDF : 2425627.4/30

Out: 0.002+/-0.000 χ^2/NDF : 3509297.4/33

All: 0.002+/-0.000 χ^2/NDF : 5936645.0/64

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 : 27558403.2/13

Left: -0.121+/-0.000 χ^2/NDF : 52593139.4/28

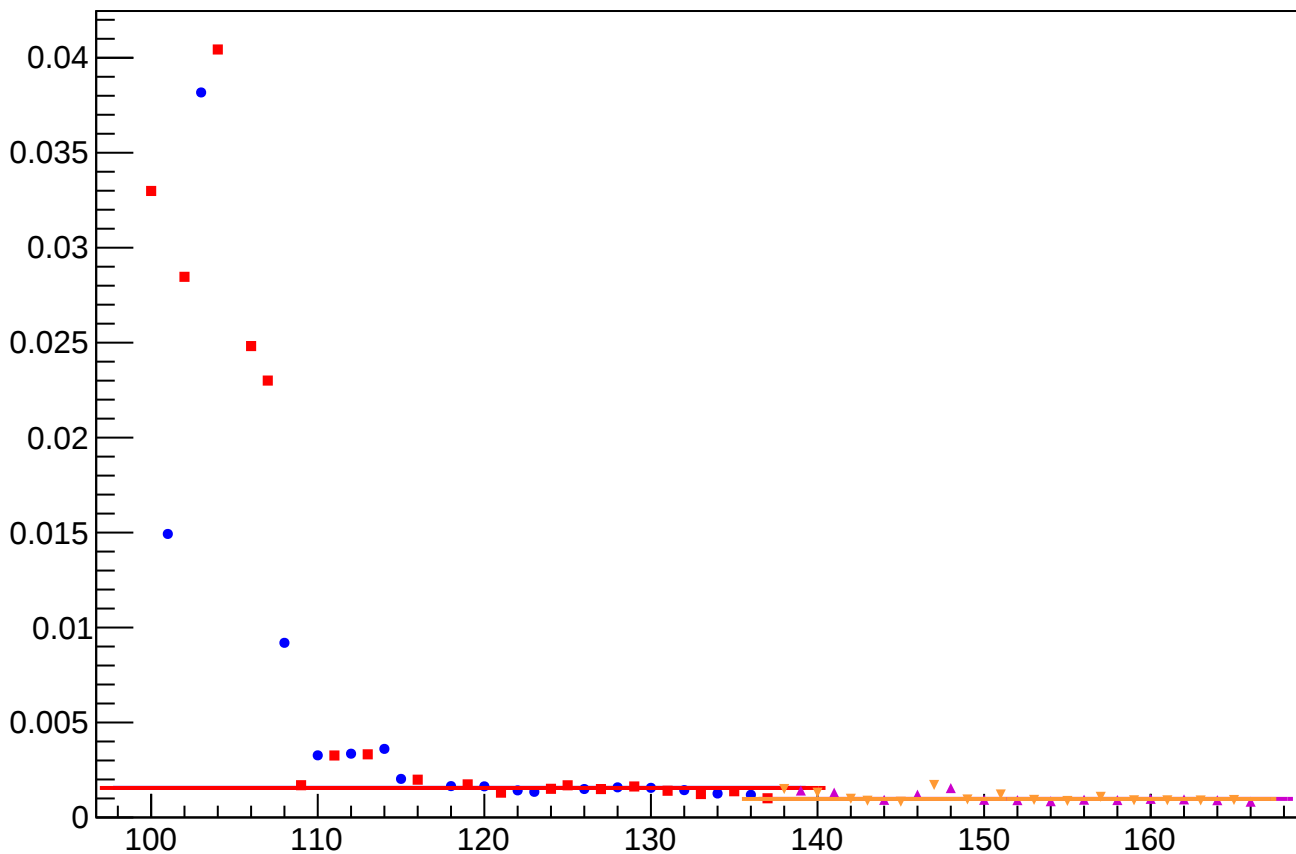
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3960328137.6/30

Out: -0.120+/-0.000 χ^2/NDF : 2533783838.5/33

All: -0.121+/-0.000 χ^2/NDF : 6495999271.7/6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2903607.4/16

Left Out: 0.001+/-0.000 χ^2/NDF :716060.2/14

Right Out: 0.002+/-0.000 χ^2/NDF : 3538622.3/18

Left In: 0.001+/-0.000 χ^2/NDF :565078.6/13

Left: 0.001 ± 0.000 χ^2/NDF : 1281268.4/28

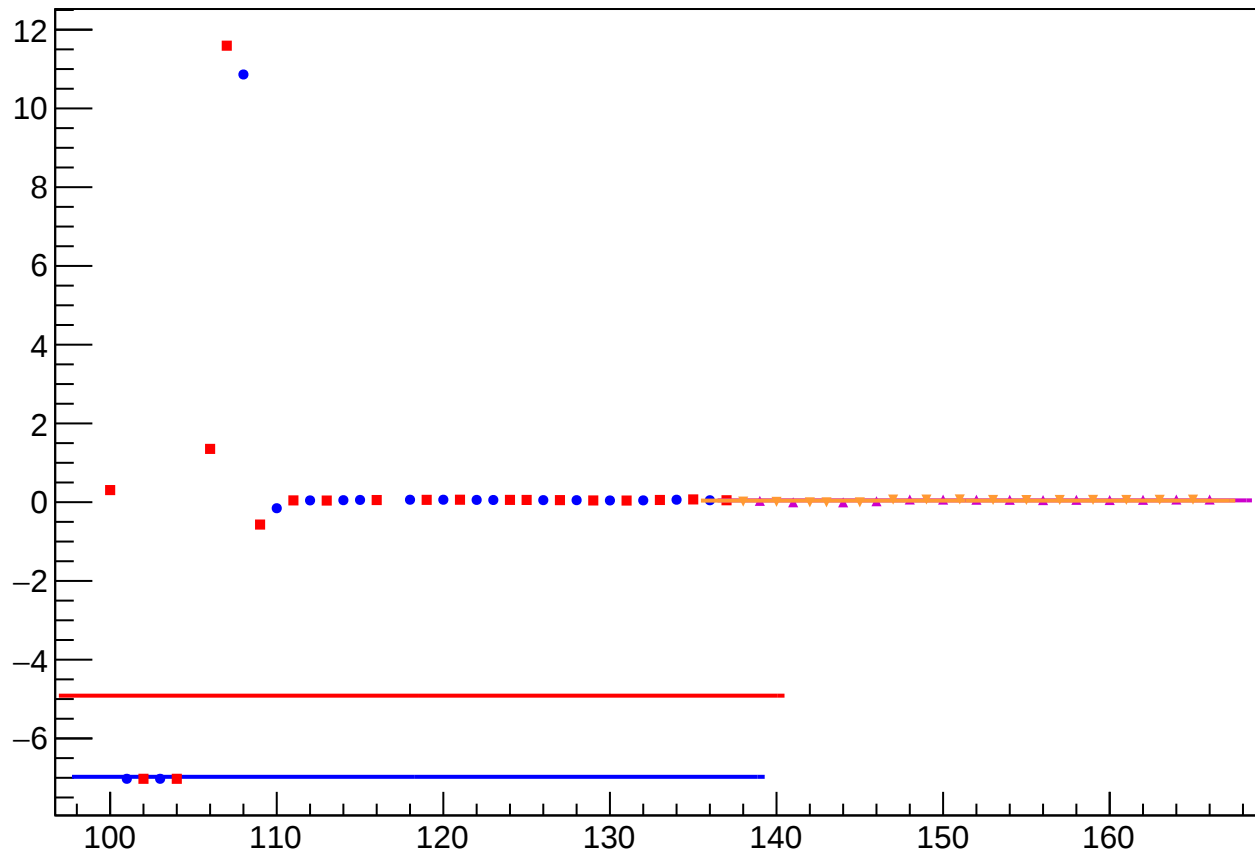
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

ln: 0.001+/-0.000 χ^2 /NDF:4552412.4/30

Out: 0.001+/-0.000 χ^2/NDF :5332191.5/33

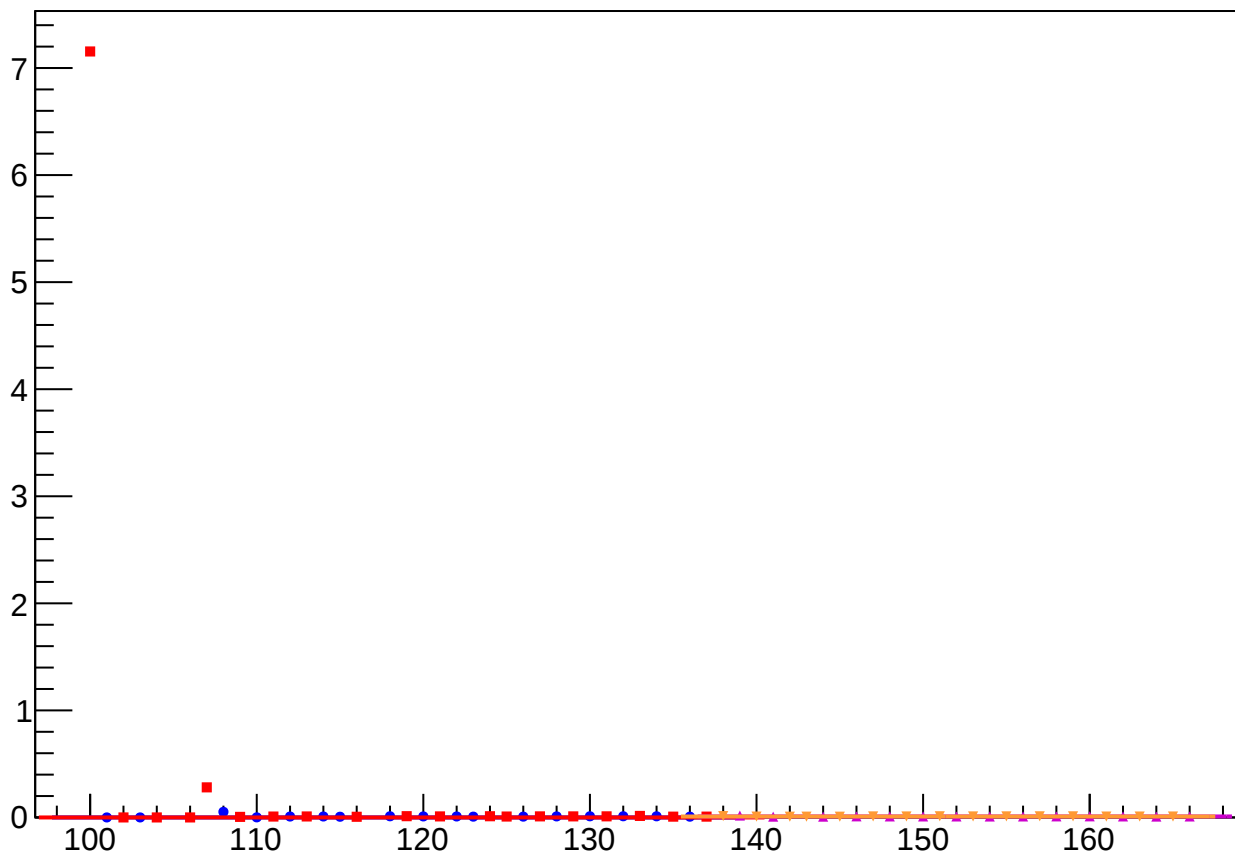
All: 0.001+/-0.000 χ^2/NDF : 9885034.2/64

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$
 Left Out: 0.040 ± 0.000 $\chi^2/\text{NDF}: 91160179.7/14$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$
 Left In: 0.046 ± 0.000 $\chi^2/\text{NDF}: 73297884.4/13$
 Left: 0.043 ± 0.000 $\chi^2/\text{NDF}: 166160300.9/28$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 In: -6.947 ± 0.000 $\chi^2/\text{NDF}: 13706096282415.4/30$
 Out: -4.895 ± 0.000 $\chi^2/\text{NDF}: 367984500003690.6/18$
 All: -5.877 ± 0.000 $\chi^2/\text{NDF}: 4376373172183$

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 : 492734.6/13

Left: 0.009+/-0.000 χ^2/NDF : 912962.8/28

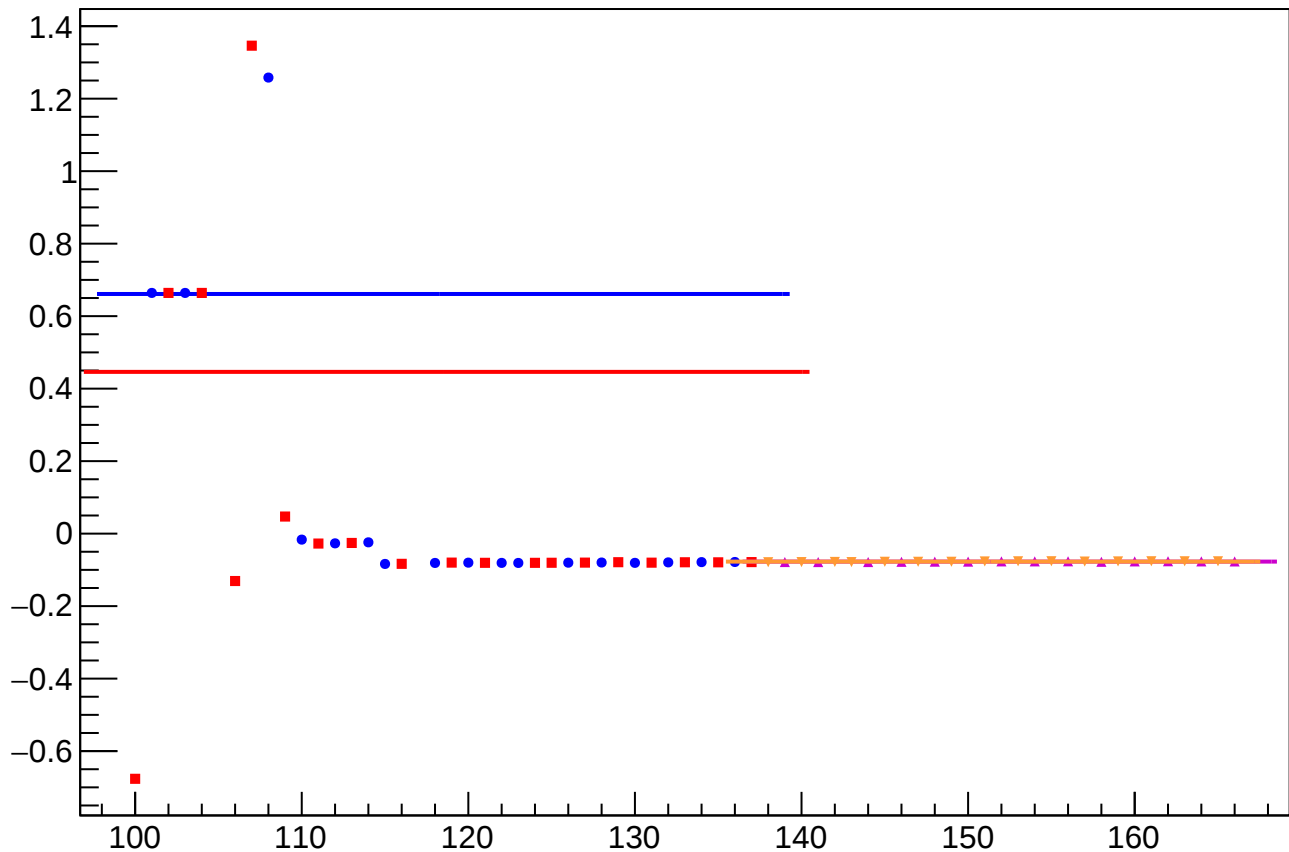
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 25479615.0/30

Out: 0.000+/-0.000 χ^2/NDF : 25934386.7/33

All: 0.000+/-0.000 χ^2/NDF : 51414739.1/64

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5678332616622.1/16

Left Out: -0.077+/-0.000

χ^2/NDF : 27342206.4/14

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

Left In: -0.077+/-0.000

χ^2/NDF : 19757519.2/13

Left: -0.077+/-0.000

χ^2/NDF : 47102366.1/28

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9/30

In: 0.652+/-0.000

χ^2/NDF : 22575443894929.2/30

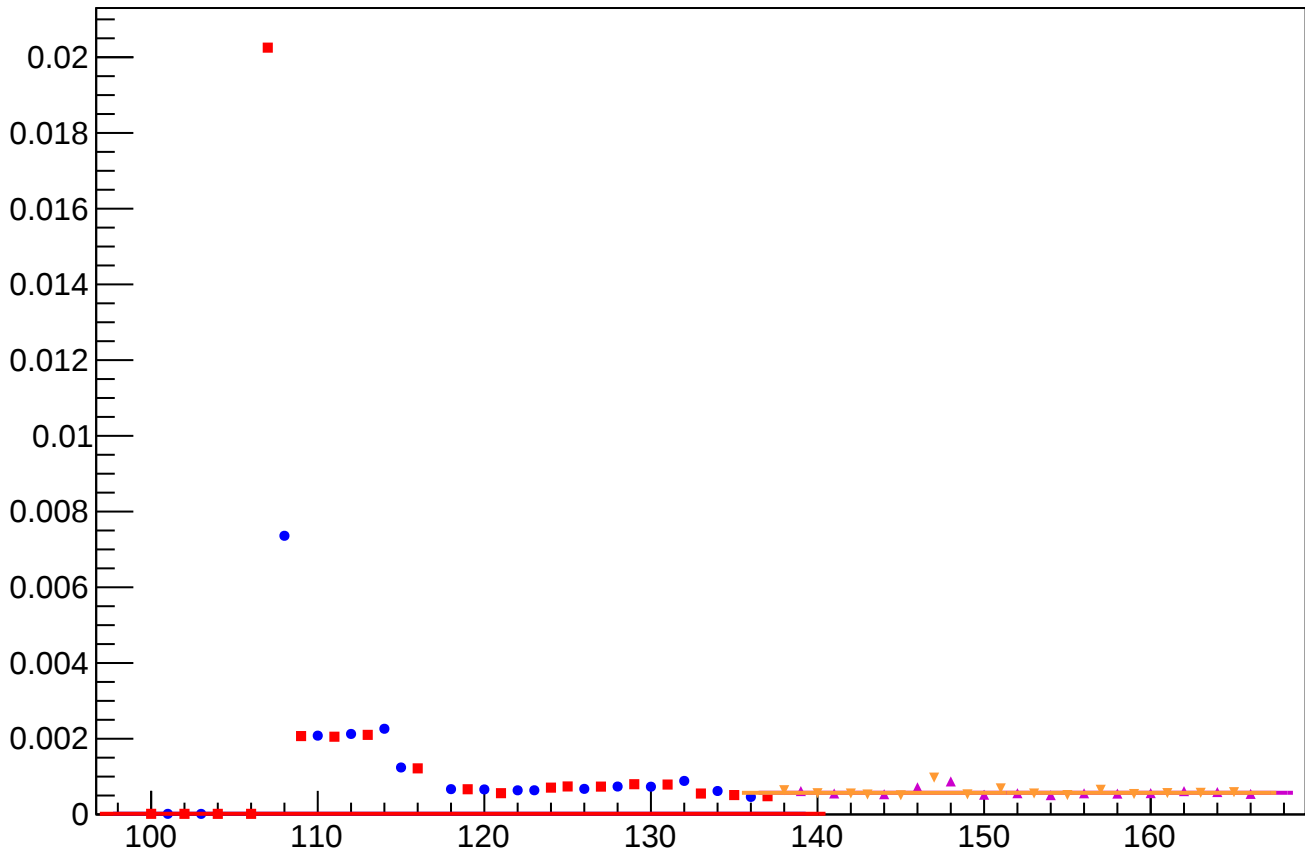
Out: 0.440+/-0.000

χ^2/NDF : 414086065048474.9/30

All: 0.542+/-0.000

χ^2/NDF : 49854673140787.1/62

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 χ^2/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 : 315533.4/13

Left: 0.001+/-0.000 χ^2/NDF : 723511.4/28

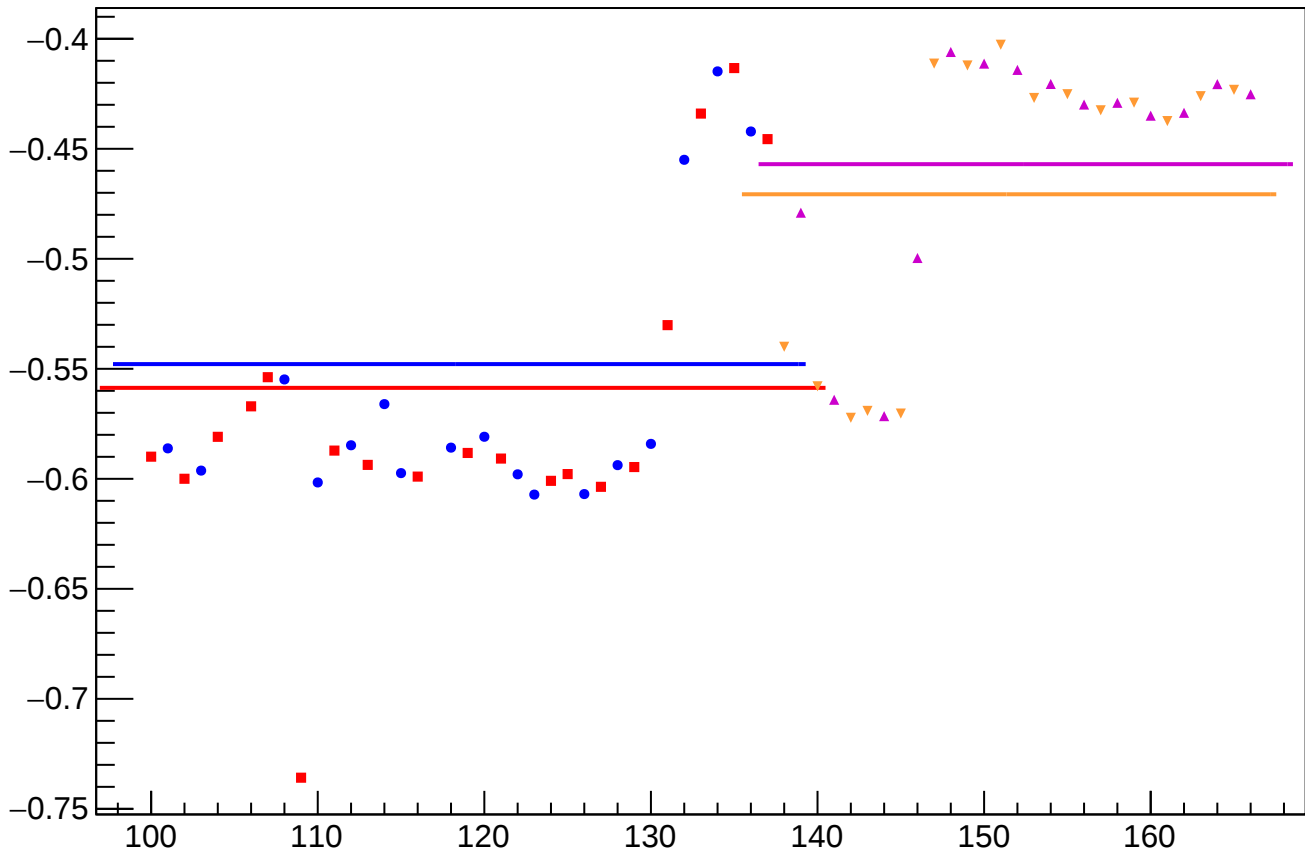
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 29350640.8/30

Out: 0.000+/-0.000 χ^2/NDF : 29250230.5/33

All: 0.000+/-0.000 χ^2/NDF : 58601685.7/64

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.471+/-0.000 χ^2/NDF : 99399788.4/14

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.457+/-0.000 χ^2/NDF : 72543613.5/13

Left: -0.464+/-0.000 χ^2/NDF : 173936228.5/28

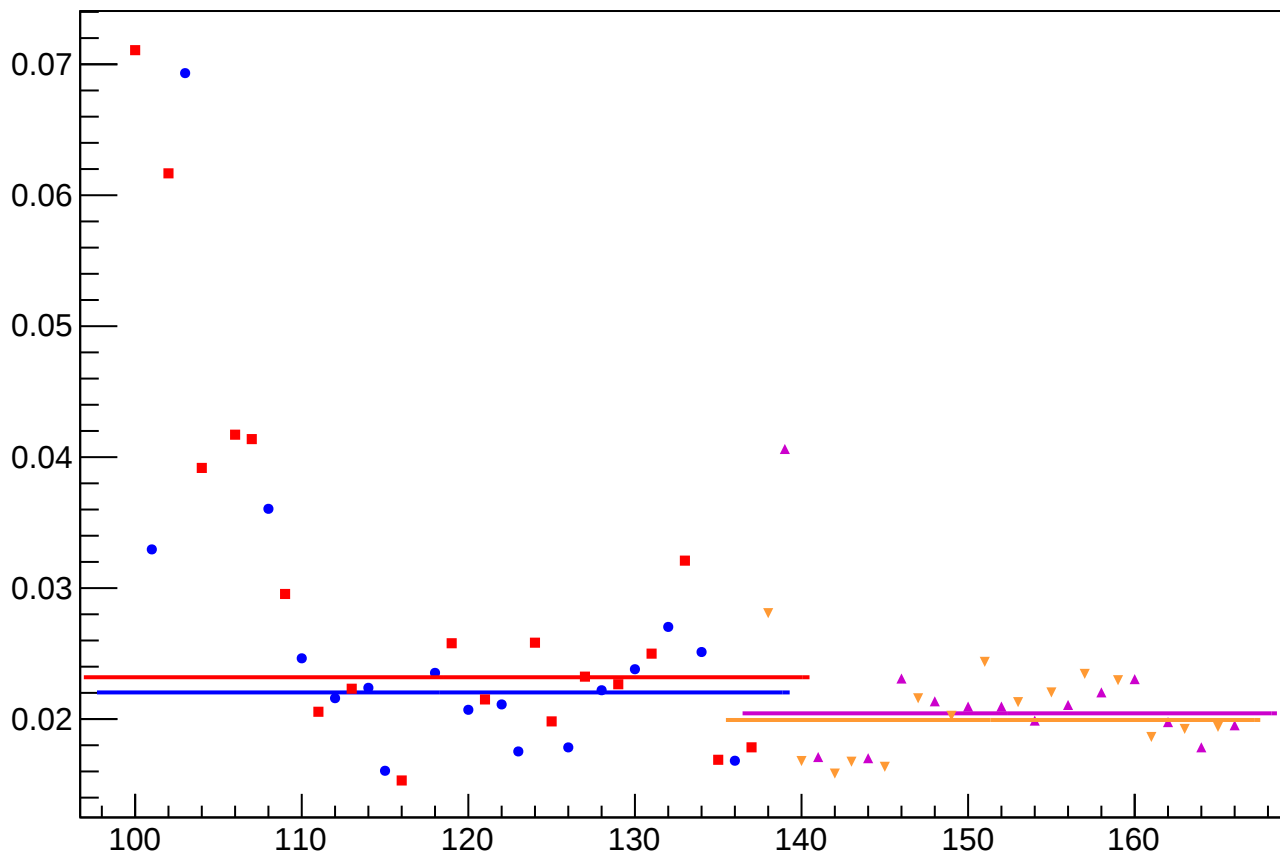
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.488+/-0.000 χ^2/NDF : 178725055.6/30

Out: -0.498+/-0.000 χ^2/NDF : 217937224.6/33

All: -0.493+/-0.000 χ^2/NDF : 398394991.8/64

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 : 500855.3/13

Left: 0.020+/-0.000 χ^2/NDF : 899117.4/28

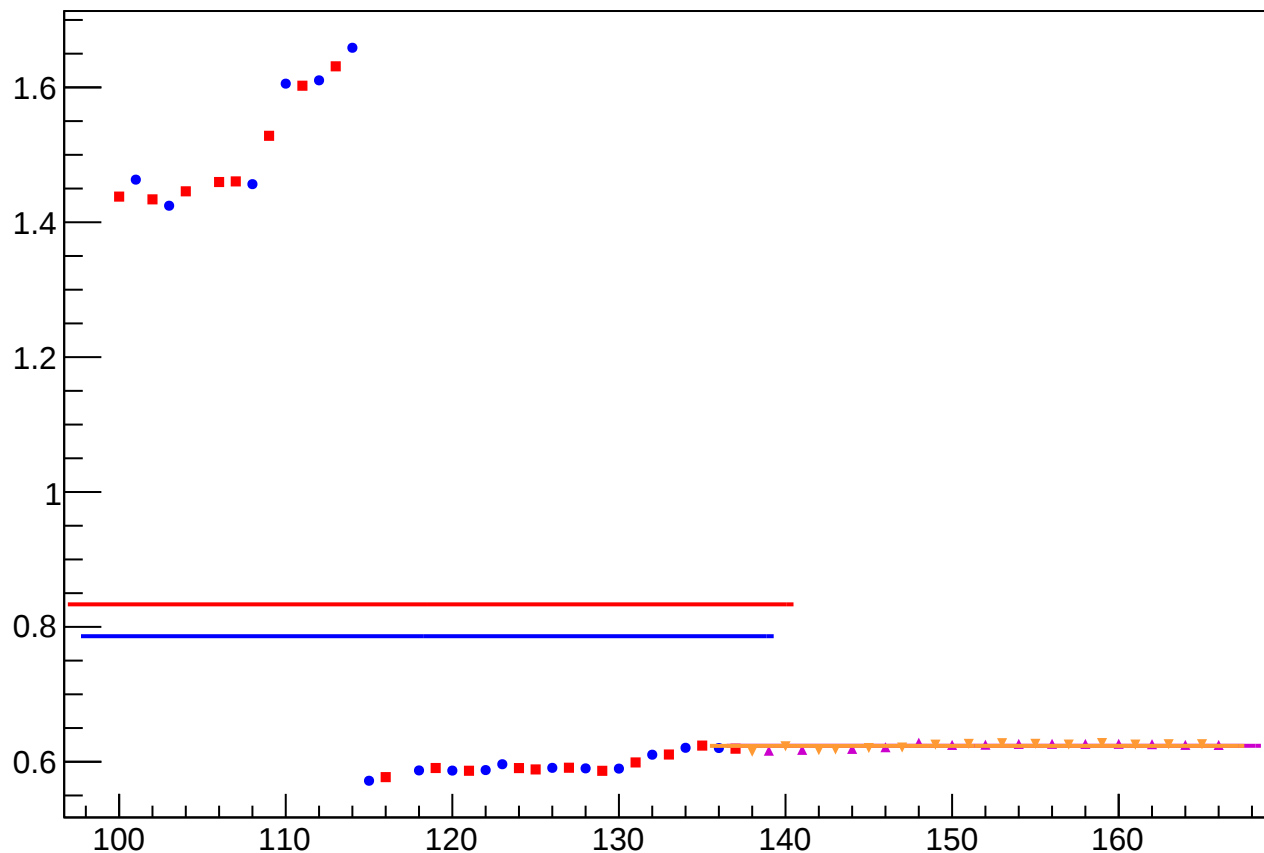
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1495364.3/30

Out: 0.021+/-0.000 χ^2/NDF : 1695205.4/33

All: 0.021+/-0.000 χ^2/NDF : 3190595.2/64

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:885641.0/13

Left: 0.624 $\pm$ 0.000 χ^2 /NDF: 1930379.7/28

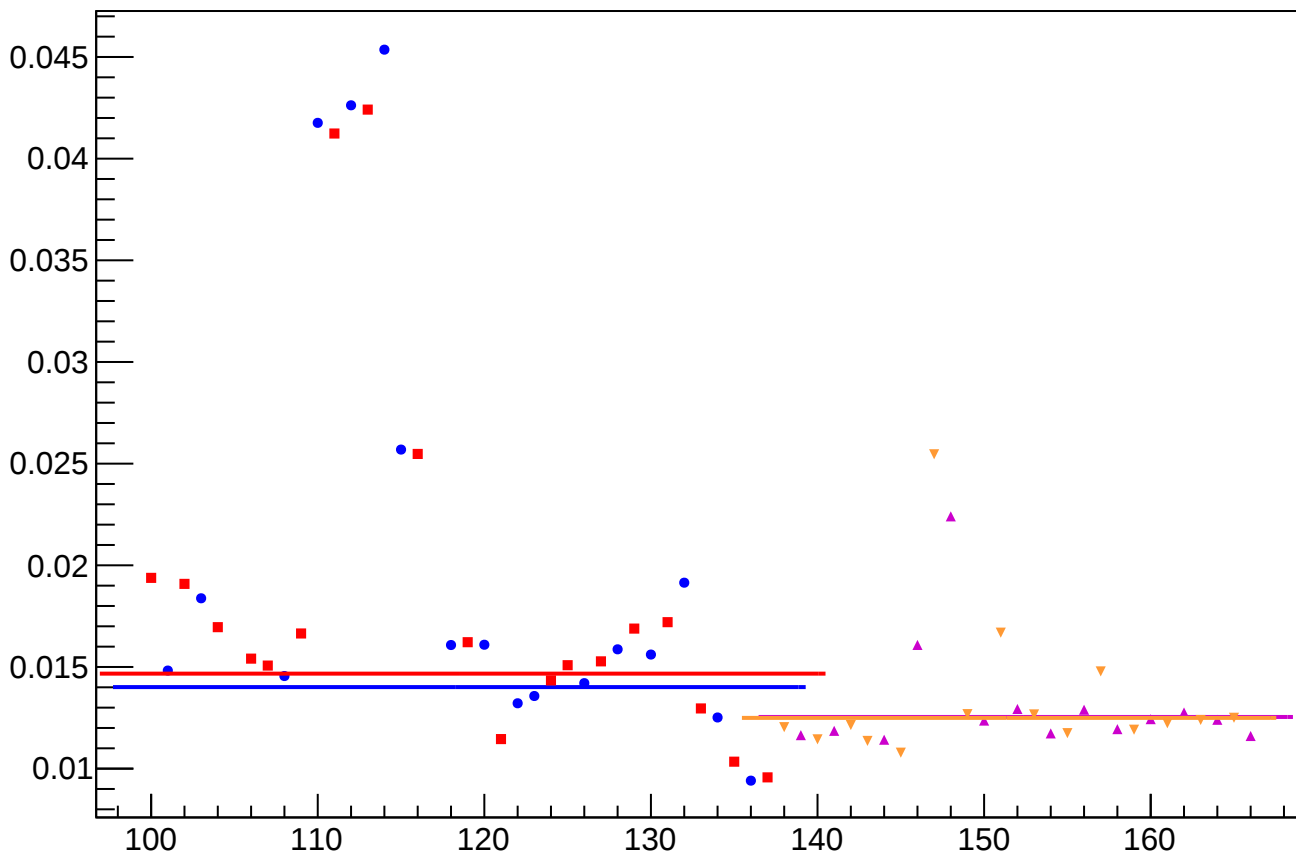
Right: 0.809 $\pm$ 0.000 χ^2 /NDF: 7778629767.1/35

In: 0.673 $\pm$ 0.000 χ^2 /NDF:4121417152.4/30

Out: 0.685 $\pm$ 0.000 χ^2 /NDF:5025581324.9/33

All: 0.679 $\pm$ 0.000 χ^2 /NDF: 9153863335.5/64

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 :417010.9/13

Left: 0.013+/-0.000 χ^2/NDF : 1005565.5/28

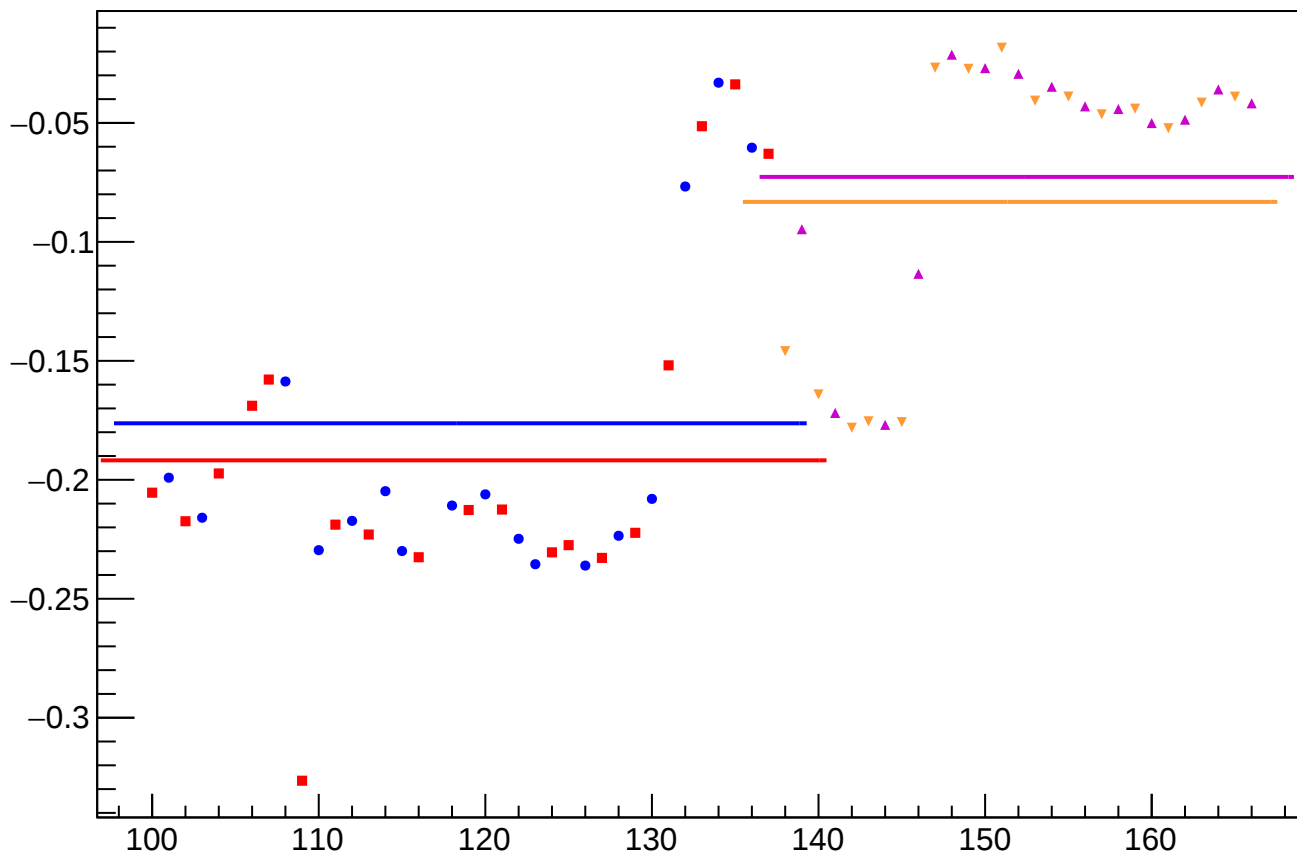
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1908605.5/30

Out: 0.013+/-0.000 χ^2/NDF :2038540.4/33

All: 0.013+/-0.000 χ^2/NDF : 3949185.9/64

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: -0.073+/-0.000 χ^2/NDF : 72837694.4/13

Left: -0.078+/-0.000 χ^2/NDF : 169235188.2/28

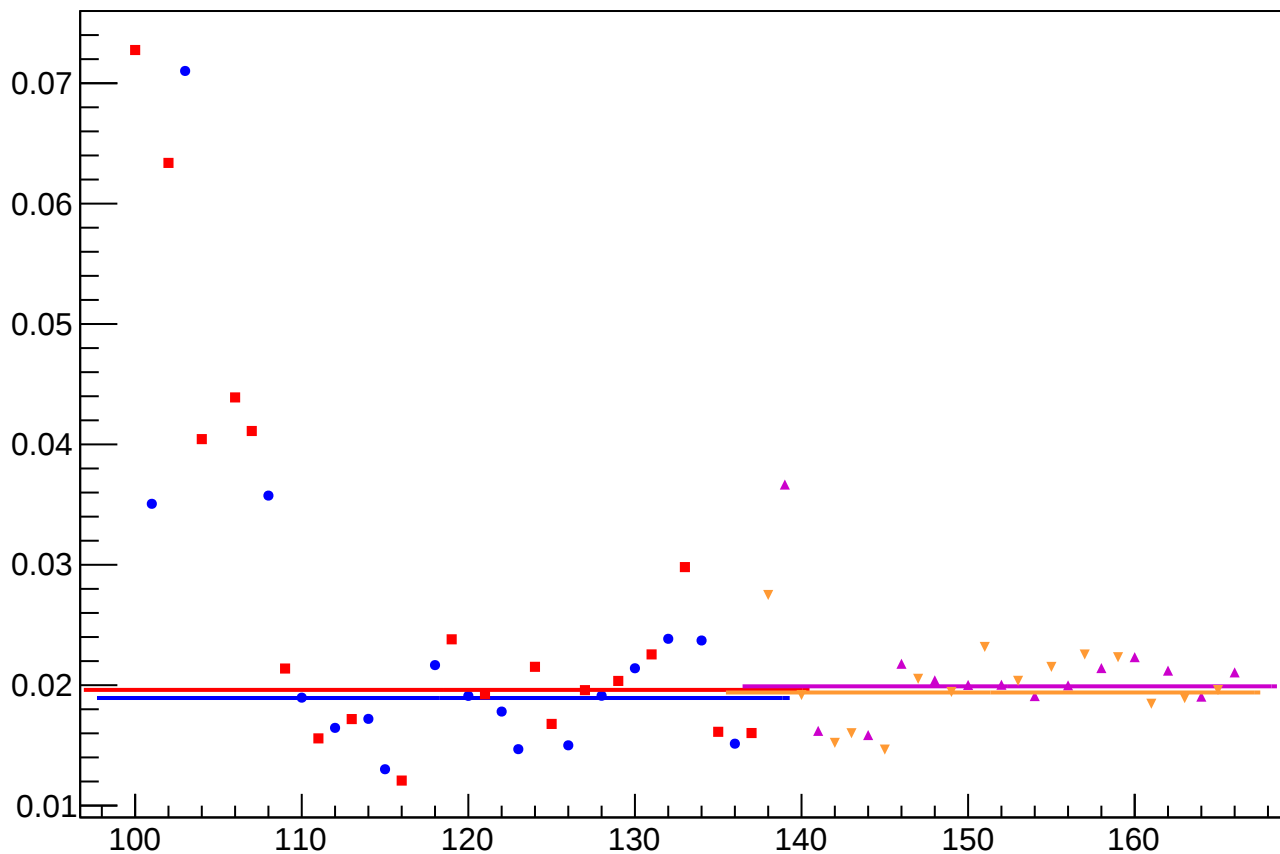
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.113+/-0.000 χ^2/NDF : 234696991.4/30

Out: -0.123+/-0.000 χ^2/NDF : 280124089.0/33

All: -0.118+/-0.000 χ^2/NDF : 516661301.9/64

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 : 472134.1/13

Left: 0.020+/-0.000 χ^2/NDF : 894998.1/28

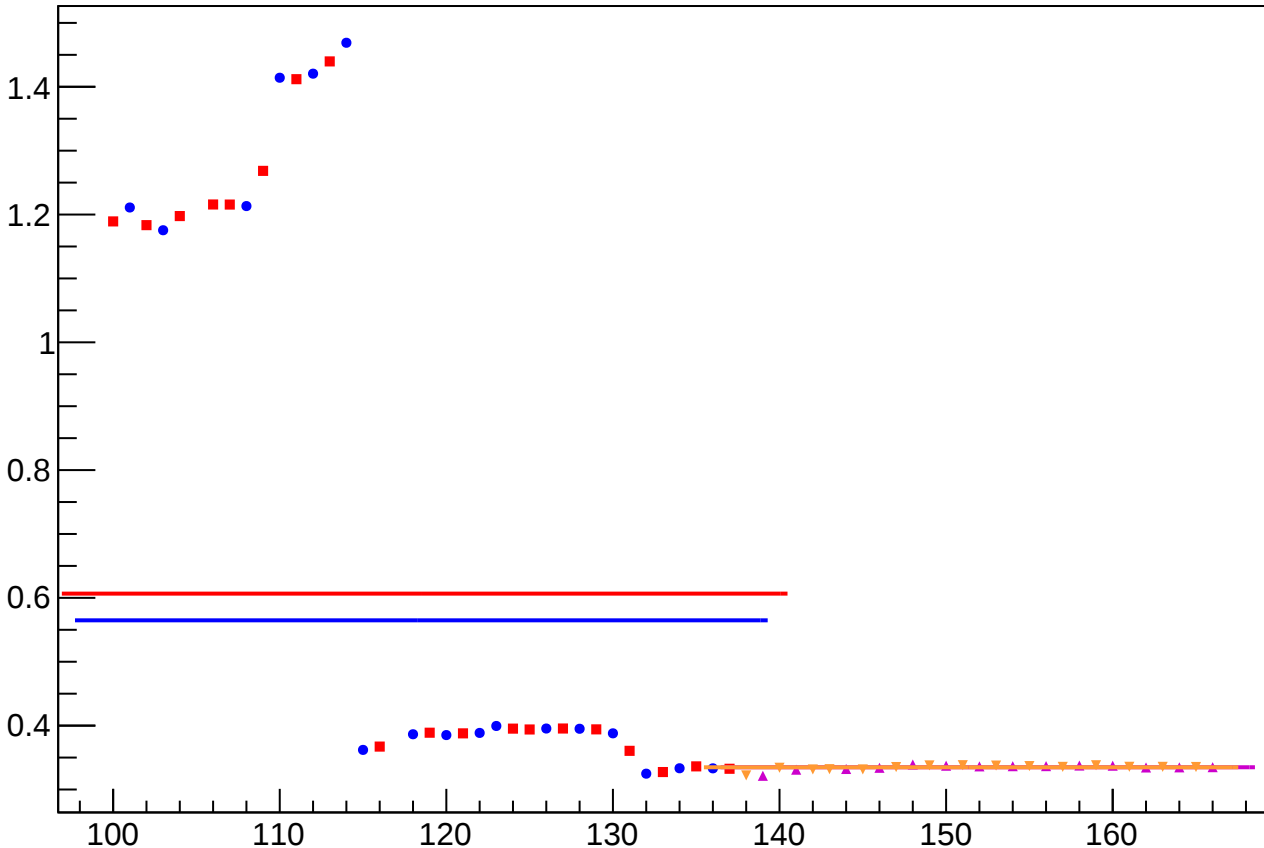
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.020+/-0.000 χ^2/NDF : 1694084.9/30

Out: 0.019+/-0.000 χ^2/NDF : 1875373.2/33

All: 0.020+/-0.000 χ^2/NDF : 3569575.0/64

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 :1154036.2/13

Left: 0.335 ± 0.000 χ^2/NDF : 2223645.1/28

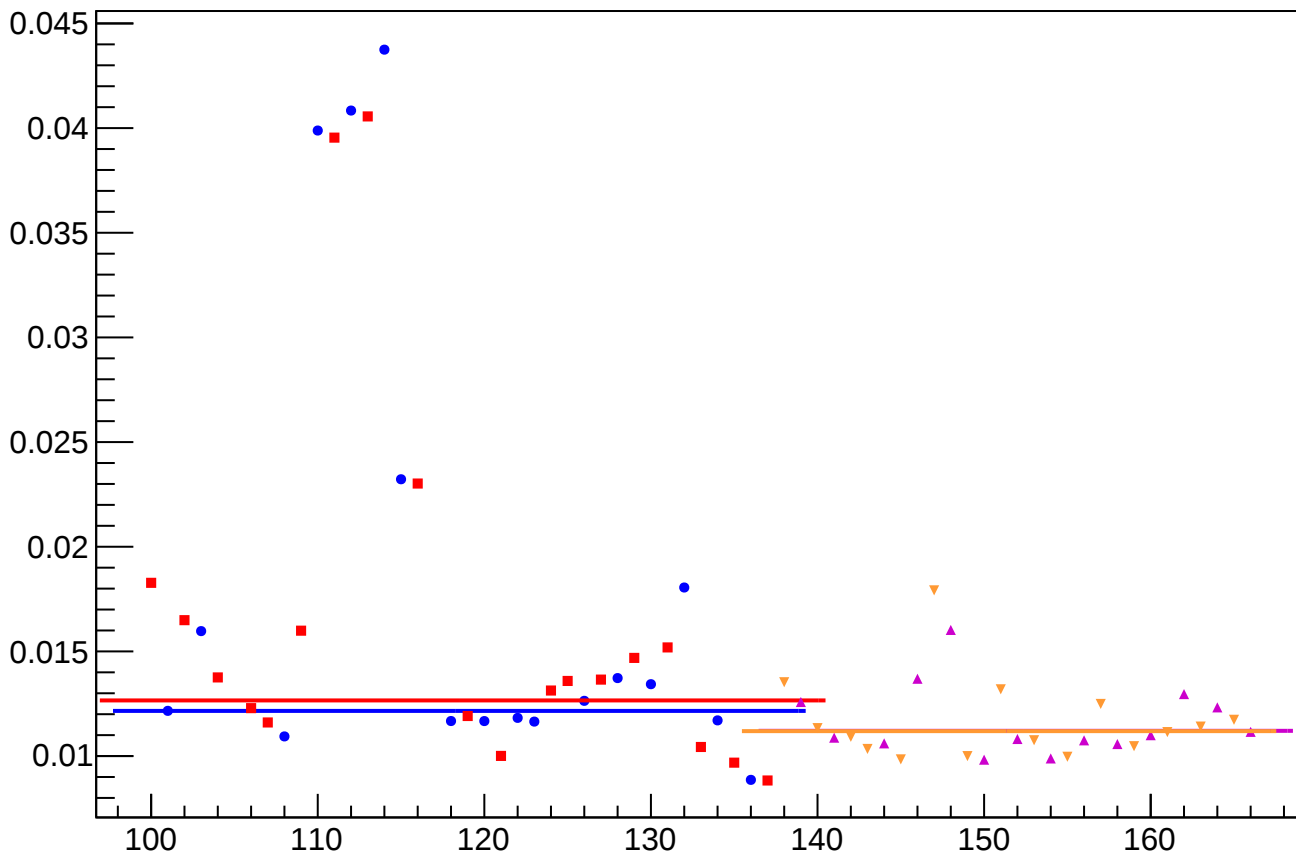
Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

In: 0.408+/-0.000 χ^2/NDF :6413293617.1/30

Out: 0.418+/-0.000 χ^2/NDF :7400802321.6/33

All: 0.413 ± 0.000 χ^2/NDF : 13819871463.8/6

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 : 321273.4/13

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 719407.6/28

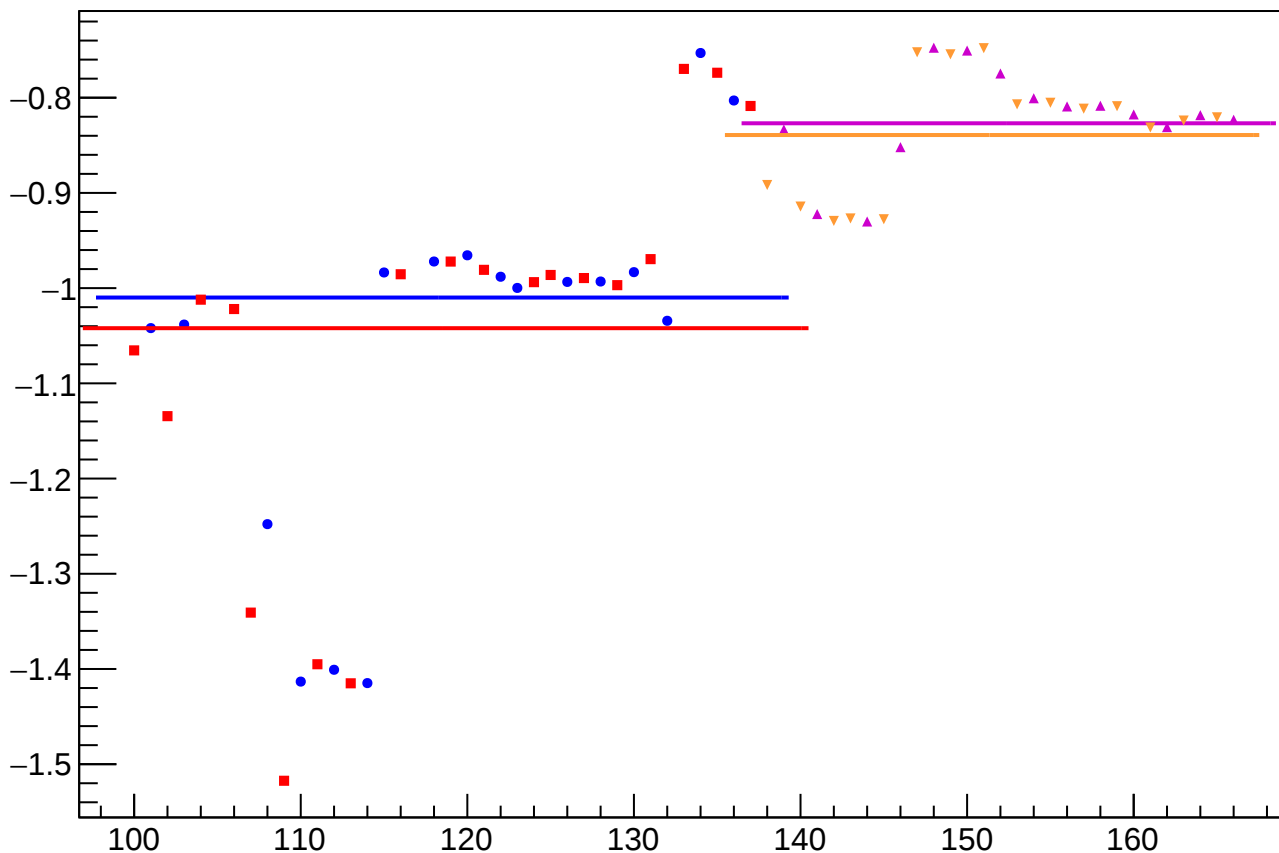
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 2589989.8/35

In: 0.012 $\pm$ 0.000 χ^2/NDF : 1678481.6/30

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 1778637.9/33

All: 0.012 $\pm$ 0.000 χ^2/NDF : 3459185.1/64

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 ± 0.000 $\chi^2/\text{NDF}: 387650332.0/16$

Left Out: -0.839 ± 0.000 $\chi^2/\text{NDF}: 92687223.0/14$

Right Out: -1.042 ± 0.000 $\chi^2/\text{NDF}: 530106141.8/18$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 70168542.1/13$

Left: -0.833 ± 0.000 $\chi^2/\text{NDF}: 164556265.3/28$

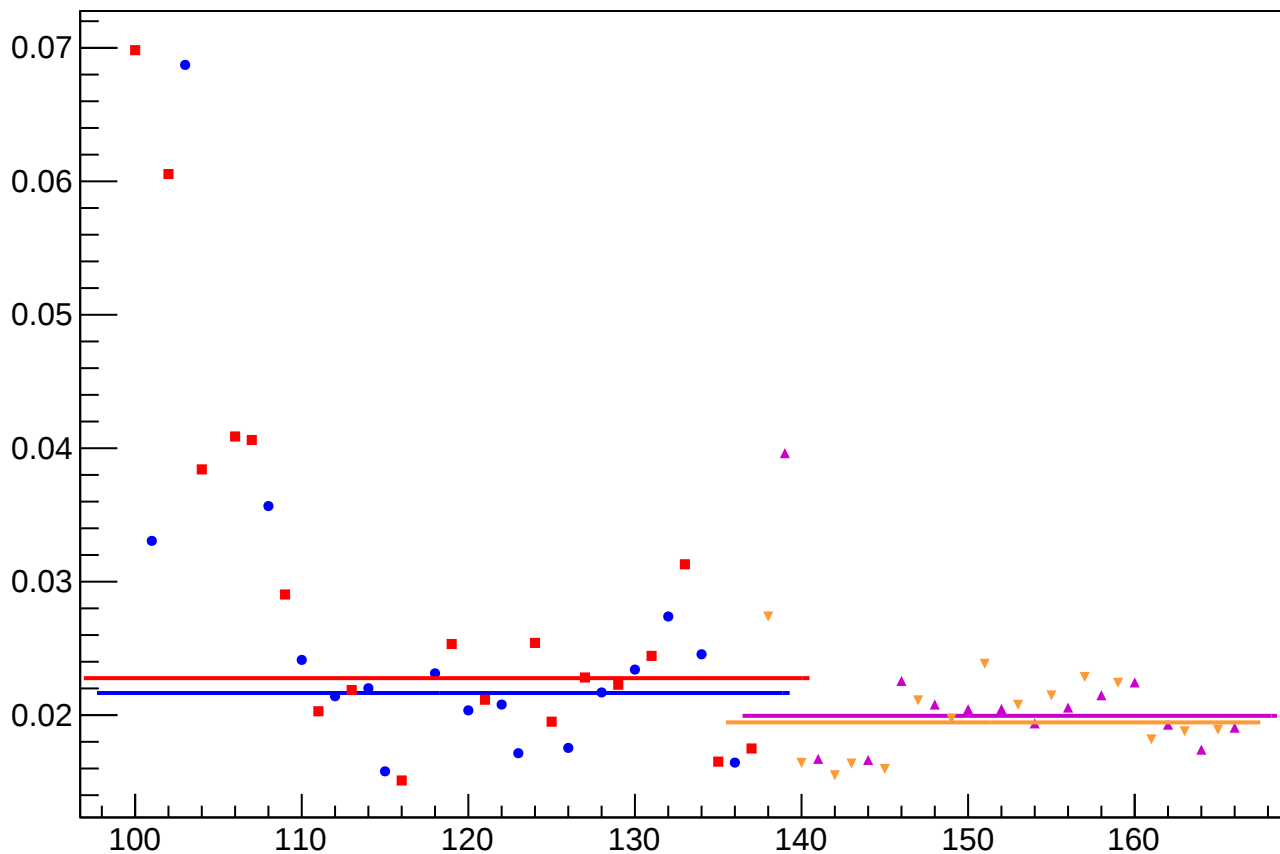
Right: -1.026 ± 0.000 $\chi^2/\text{NDF}: 923225272.3/35$

In: -0.888 ± 0.000 $\chi^2/\text{NDF}: 700493653.3/30$

Out: -0.902 ± 0.000 $\chi^2/\text{NDF}: 914919720.1/33$

All: -0.895 ± 0.000 $\chi^2/\text{NDF}: 1618617628.0/6$

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 : 497785.6/13

Left: 0.020+/-0.000 χ^2/NDF : 894168.6/28

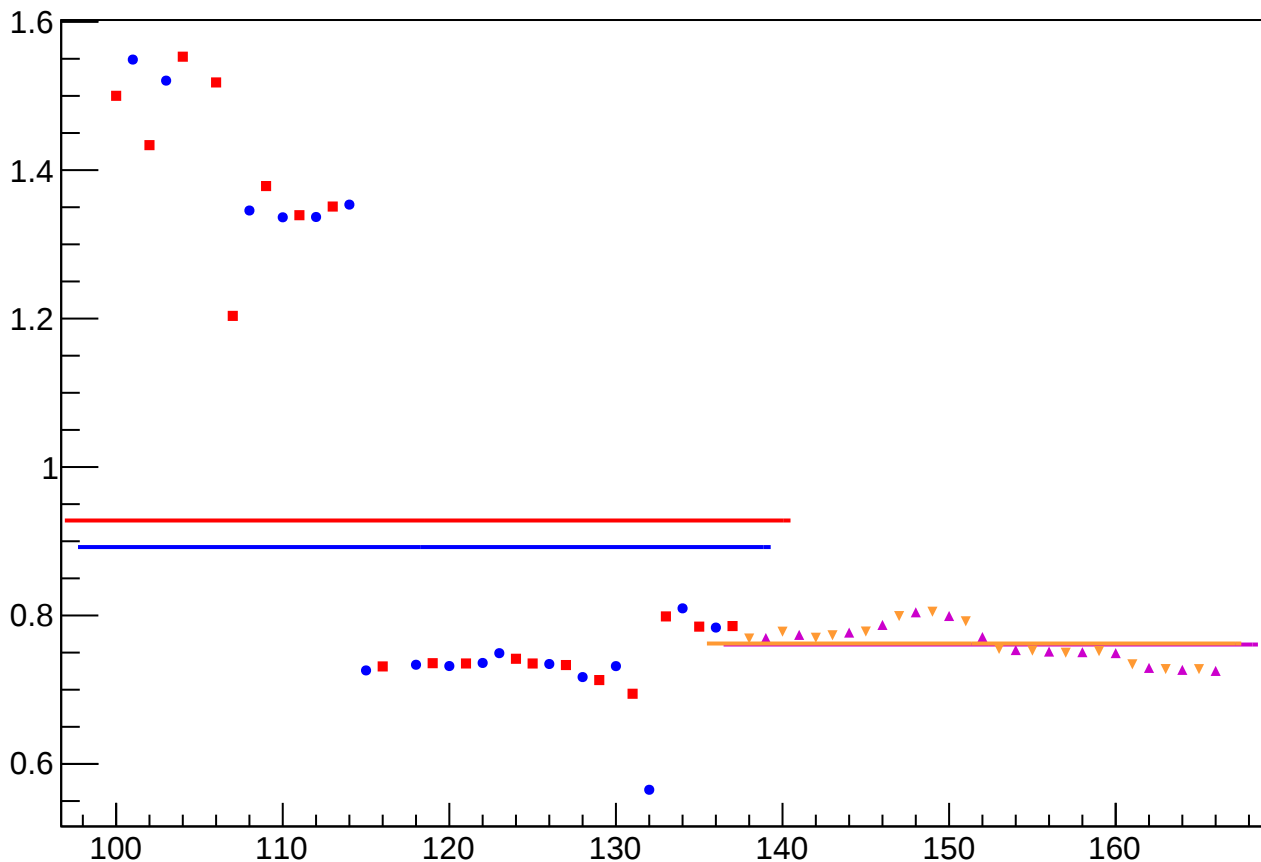
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.021+/-0.000 χ^2/NDF : 1523692.2/30

Out: 0.020+/-0.000 χ^2/NDF : 1699647.9/33

All: 0.020+/-0.000 χ^2/NDF : 3223392.8/64

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: 0.761 $\pm$ 0.000 χ^2/NDF :32448151.9/13

Left: 0.762 $\pm$ 0.000 χ^2/NDF : 65542153.1/28

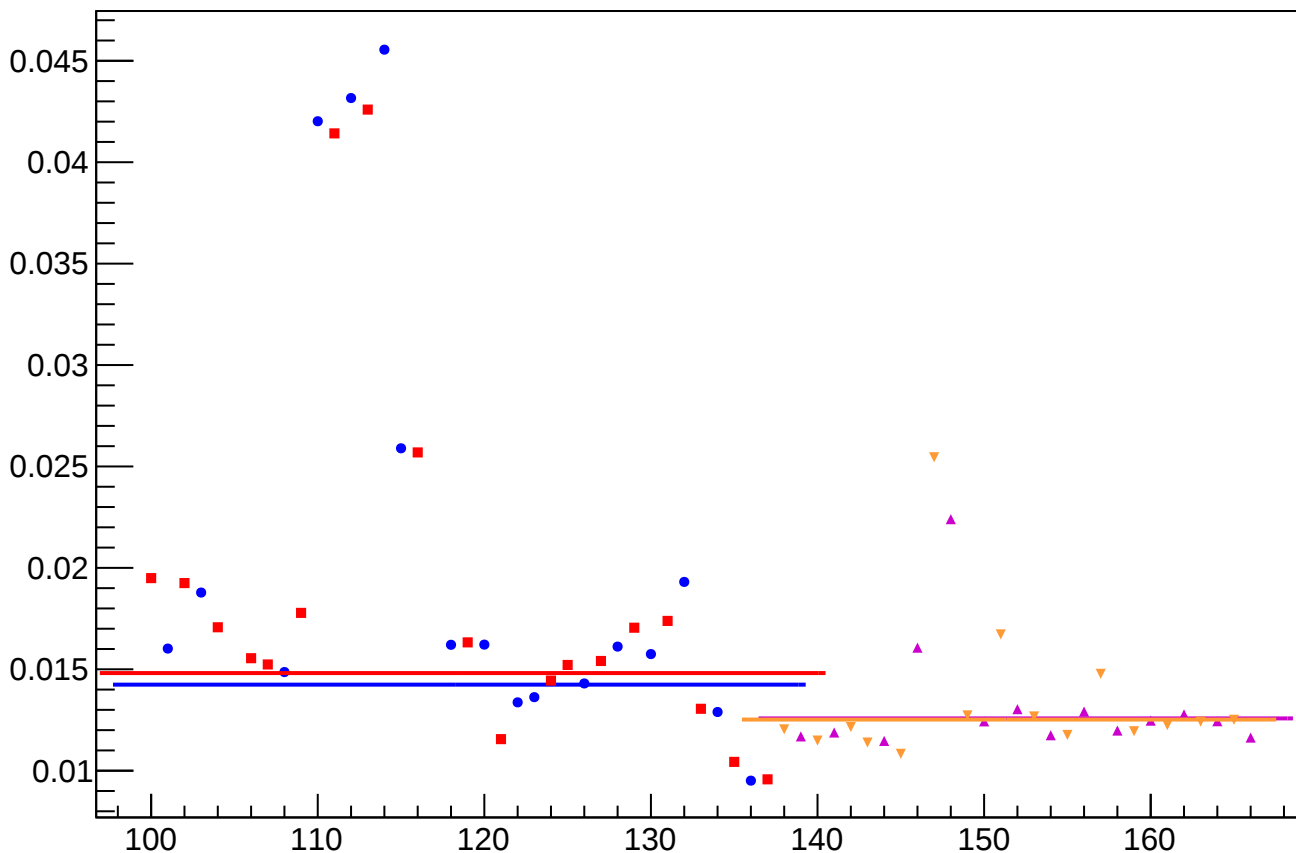
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.800 $\pm$ 0.000 χ^2/NDF :2782757763.4/30

Out: 0.810 $\pm$ 0.000 χ^2/NDF :3002321414.9/33

All: 0.805 $\pm$ 0.000 χ^2/NDF : 5790043916.9/64

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:412926.0/13

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 997001.3/28

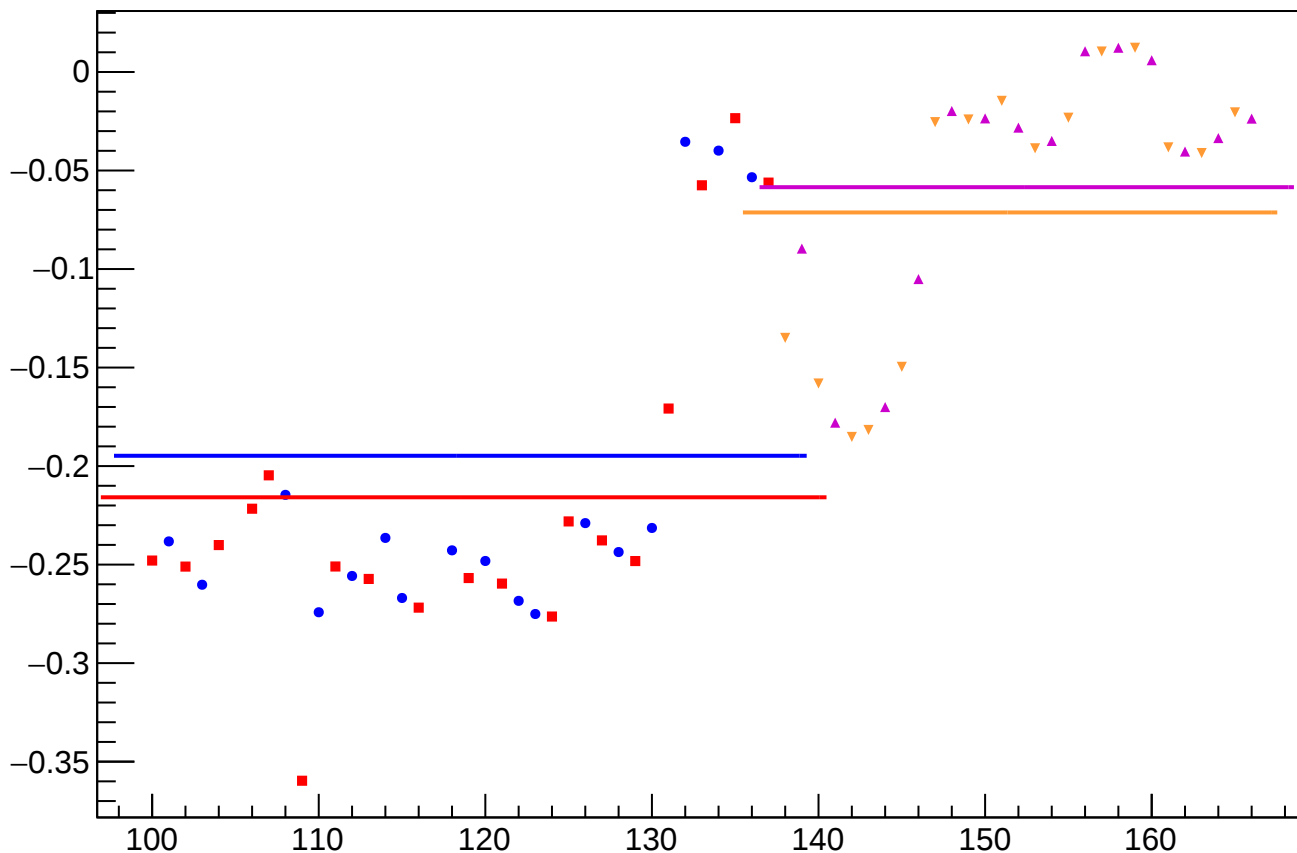
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 2698841.0/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF:1936705.7/30

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2061466.8/33

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 3999343.6/64

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: -0.058 ± 0.000 χ^2/NDF : 96643967.7/13

Left: -0.065 ± 0.000 χ^2/NDF : 211286399.1/28

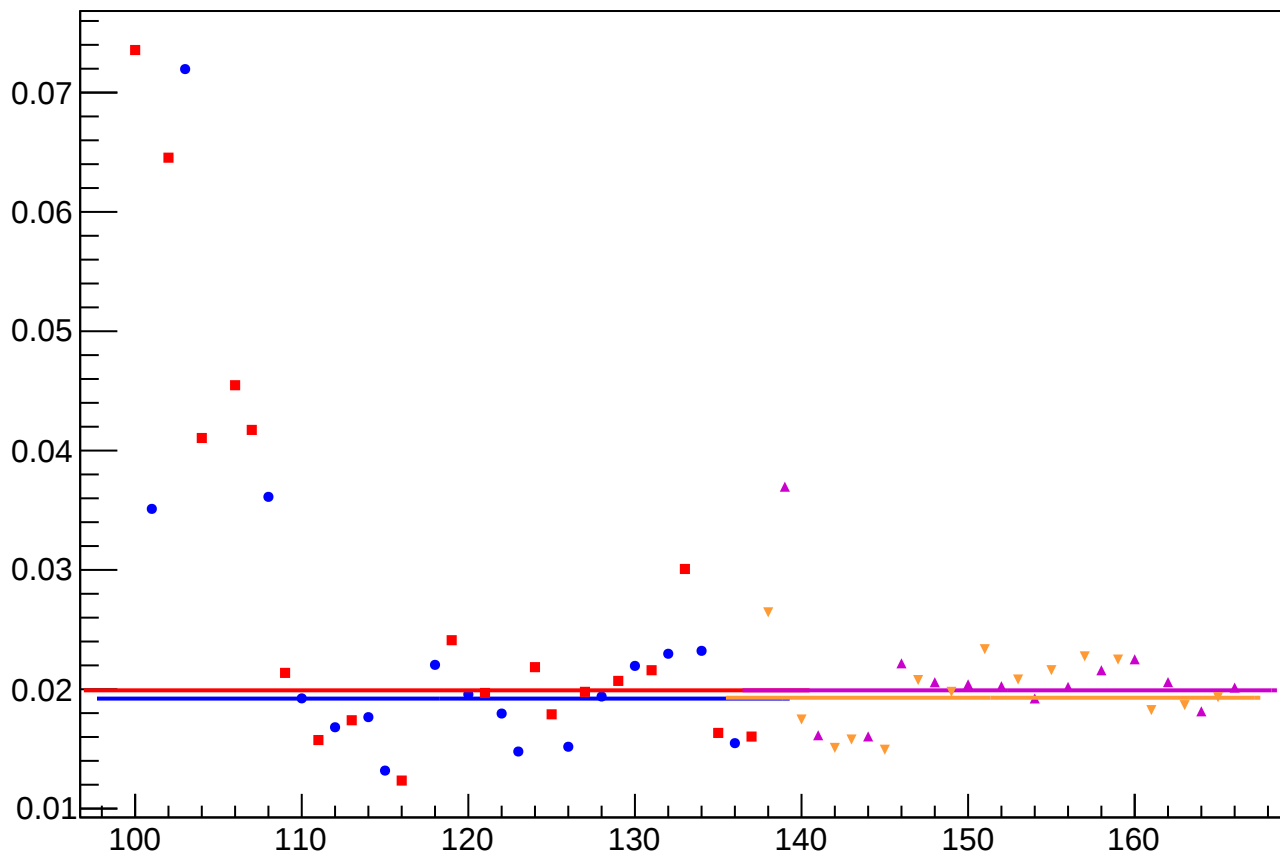
Right: -0.205 ± 0.000 χ^2/NDF : 223598203.8/35

In: -0.111 ± 0.000 χ^2/NDF : 361085672.1/30

Out: -0.123 ± 0.000 χ^2/NDF : 400507849.4/33

All: -0.117 ± 0.000 χ^2/NDF : 764310904.6/64

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:480230.1/13

Left: 0.020 $\pm$ 0.000 χ^2 /NDF: 908348.1/28

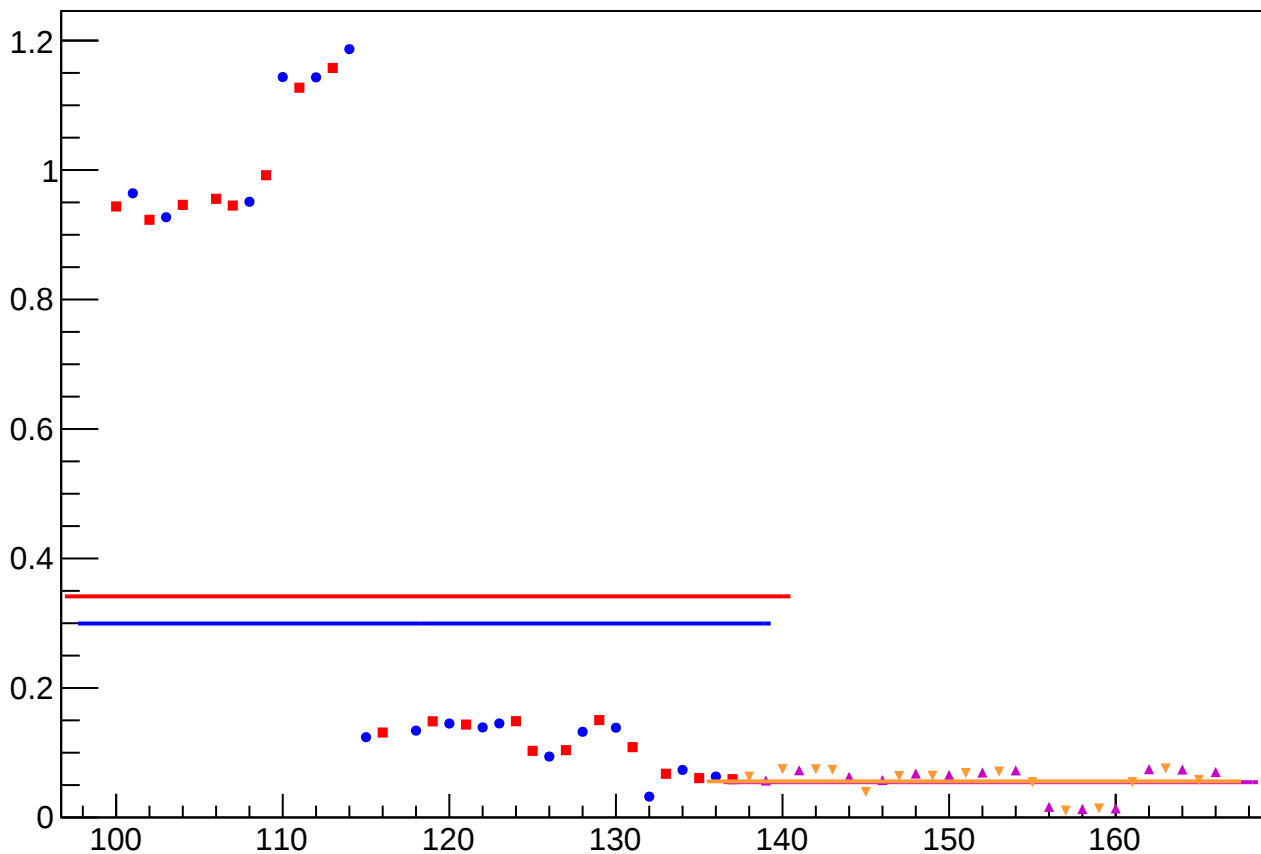
Right: 0.020 $\pm$ 0.000 χ^2 /NDF: 2630434.7/35

In: 0.020 $\pm$ 0.000 χ^2 /NDF:1665344.0/30

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:1872833.8/33

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 3538815.3/64

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 : 48409106.1/13

Left: 0.055+/-0.000 χ^2/NDF : 85552219.4/28

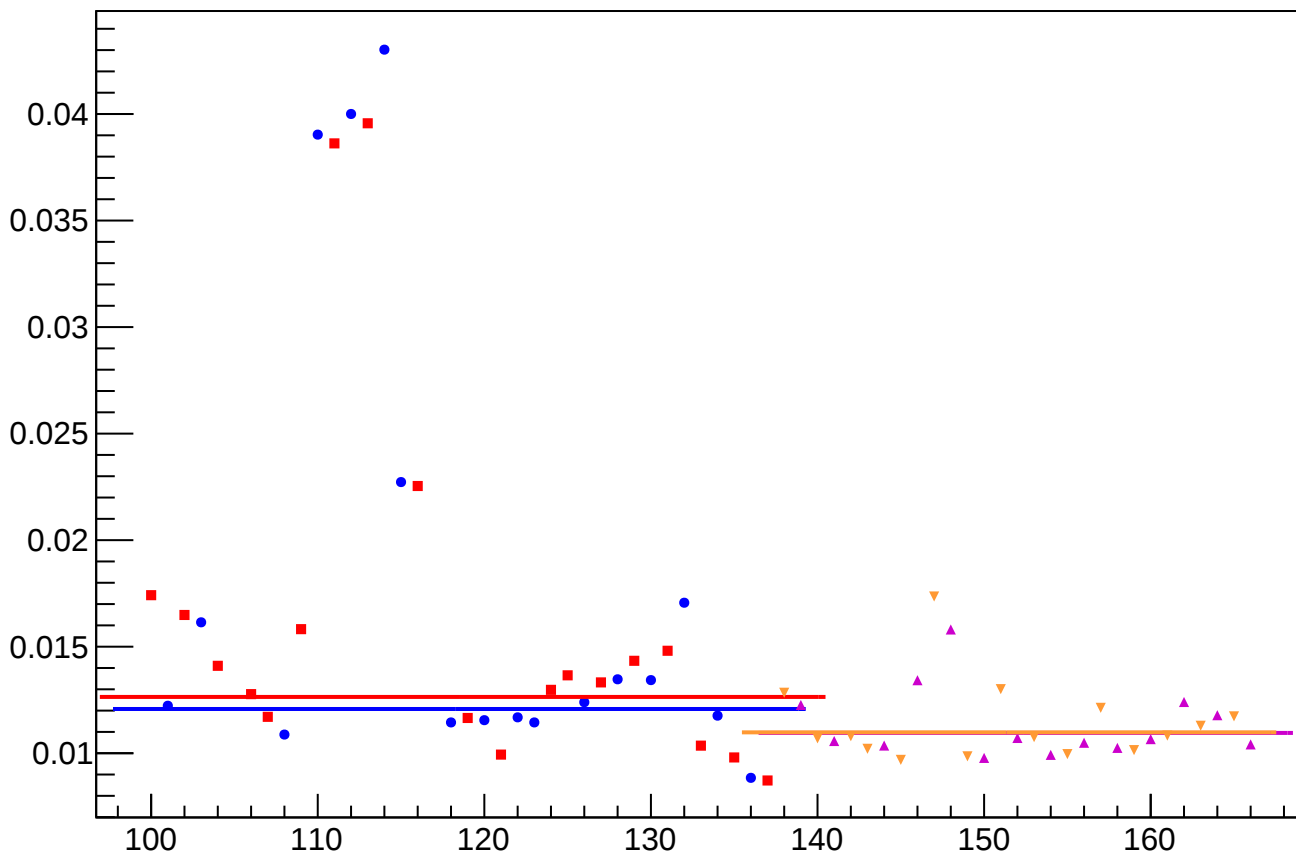
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.131+/-0.000 χ^2/NDF : 6819735909.7/30

Out: 0.141+/-0.000 χ^2/NDF : 7601699879.1/33

All: 0.136+/-0.000 χ^2/NDF : 14427454141.5/66

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 : 301572.7/13

Left: 0.011+/-0.000 χ^2/NDF : 671120.4/28

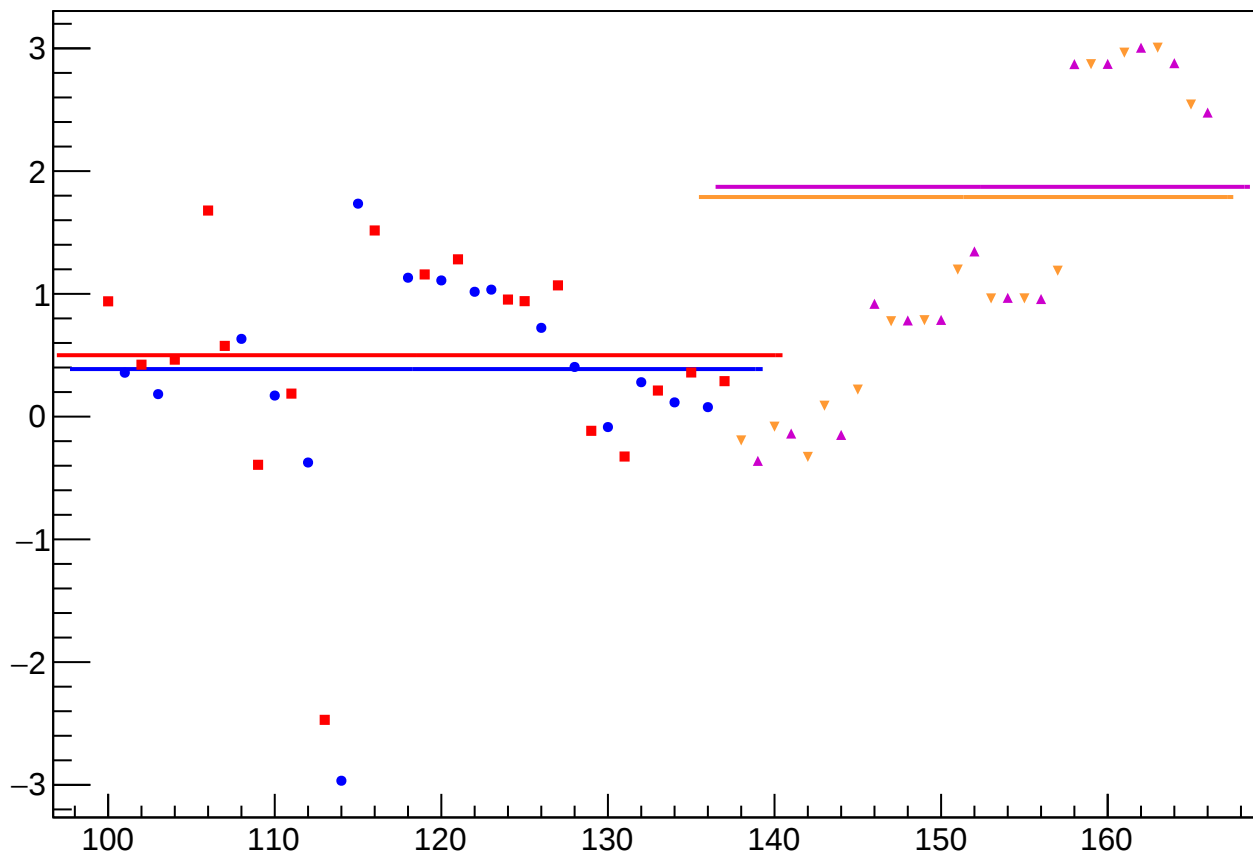
Right: 0.012+/-0.000 χ^2/NDF : 2531931.6/35

In: 0.011+/-0.000 χ^2/NDF : 1651142.7/30

Out: 0.011+/-0.000 χ^2/NDF : 1750306.9/33

All: 0.011+/-0.000 χ^2/NDF : 3405089.6/64

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.789 $\pm$ 0.000 χ^2/NDF :25012286539.8/14

Right Out: 0.500 $\pm$ 0.000 χ^2/NDF : 983360928.1/18

Left In: 1.872 $\pm$ 0.000 χ^2/NDF :27050923585.2/13

Left: 1.833 $\pm$ 0.000 χ^2/NDF : 52156672113.1/28

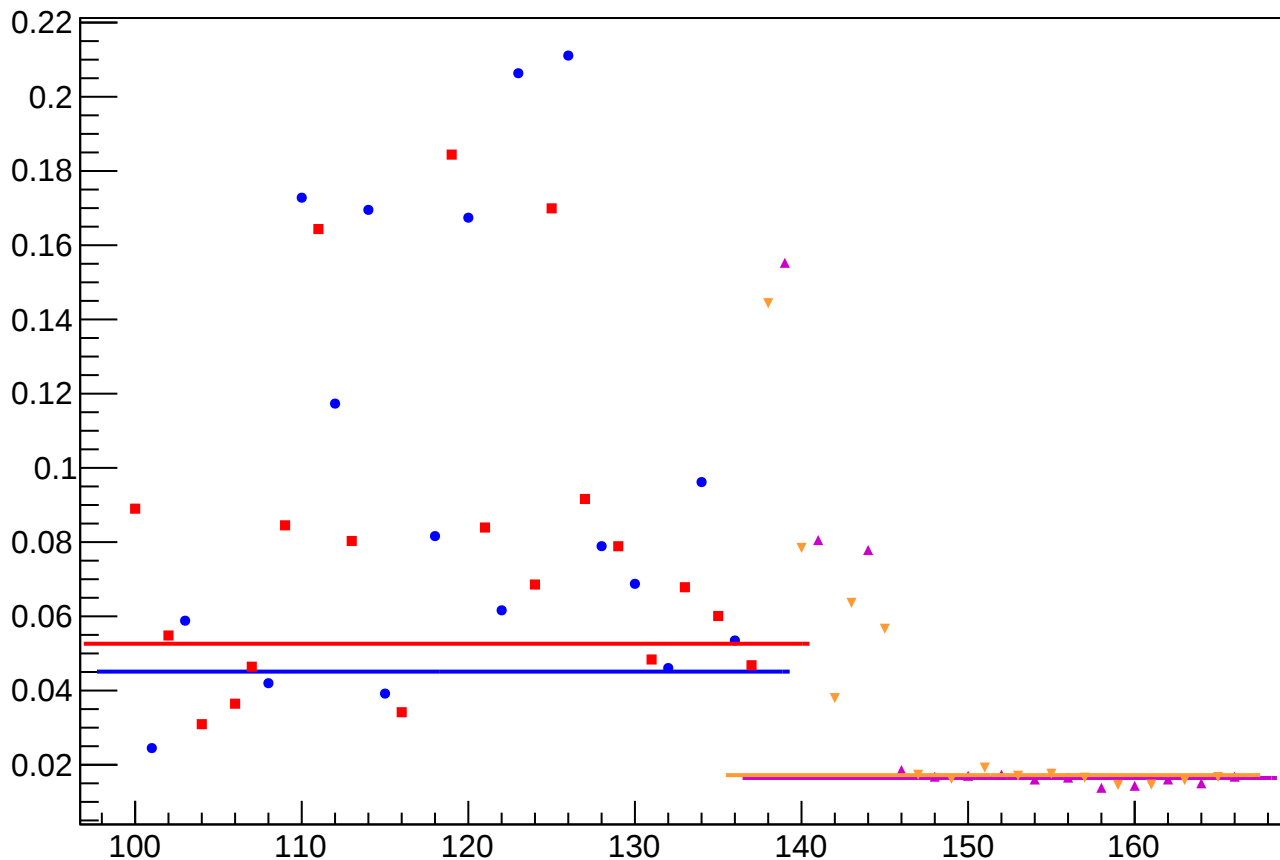
Right: 0.439 $\pm$ 0.000 χ^2/NDF : 1241544973.3/35

In: 1.786 $\pm$ 0.000 χ^2/NDF :30931547346.7/30

Out: 1.718 $\pm$ 0.000 χ^2/NDF :28338783639.3/33

All: 1.754 $\pm$ 0.000 χ^2/NDF : 59337030211.8/6

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 : 2335509.2/13

Left: 0.017+/-0.000 χ^2/NDF : 5080656.1/28

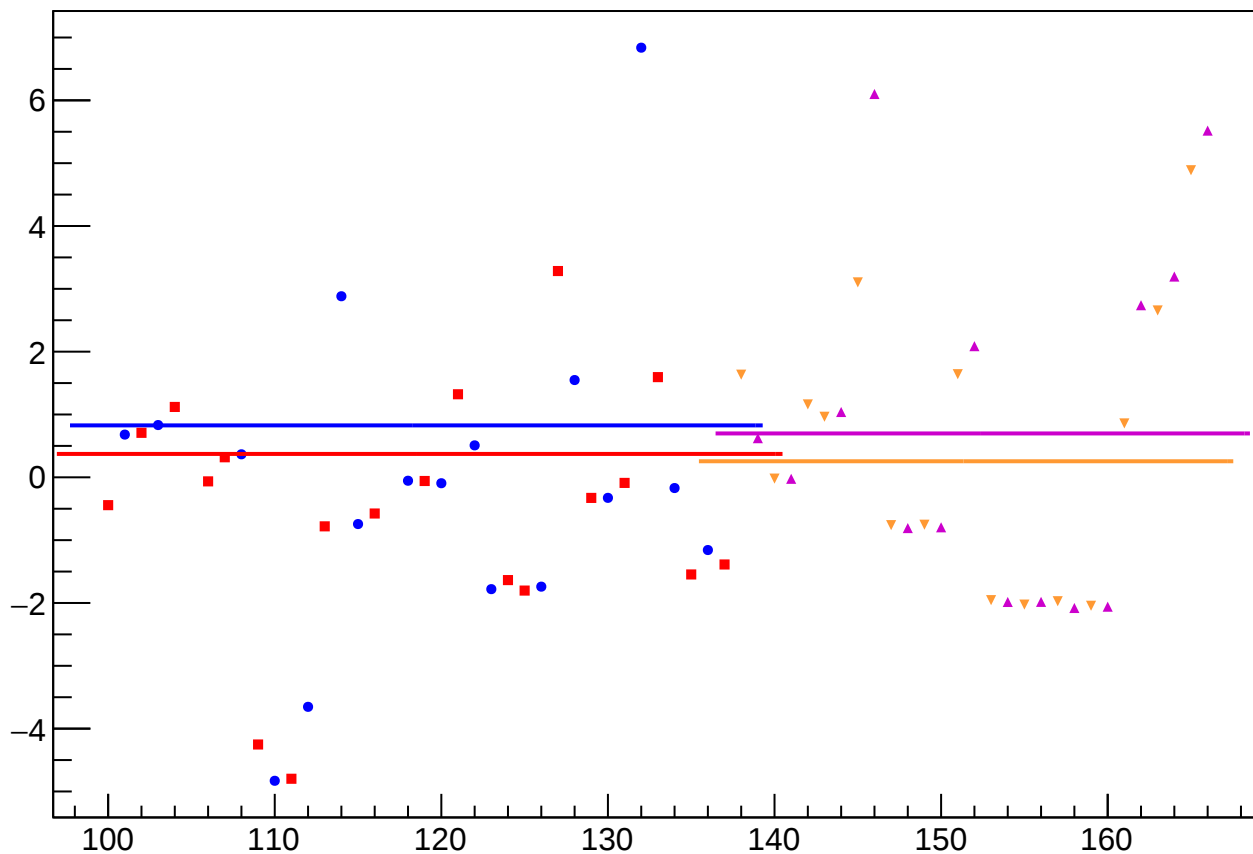
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.018+/-0.000 χ^2/NDF : 7888238.4/30

Out: 0.019+/-0.000 χ^2/NDF : 8457652.2/33

All: 0.019+/-0.000 χ^2/NDF : 16377456.1/64

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.488+/-0.000 χ^2/NDF : 626341443233.6/28

Right: 0.613+/-0.000 χ^2/NDF : 16291516809.6/35

Left Out: 0.256+/-0.000

χ^2/NDF : 230616525850.3/14

In: 0.709+/-0.000 χ^2/NDF : 402539233941.6/30

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

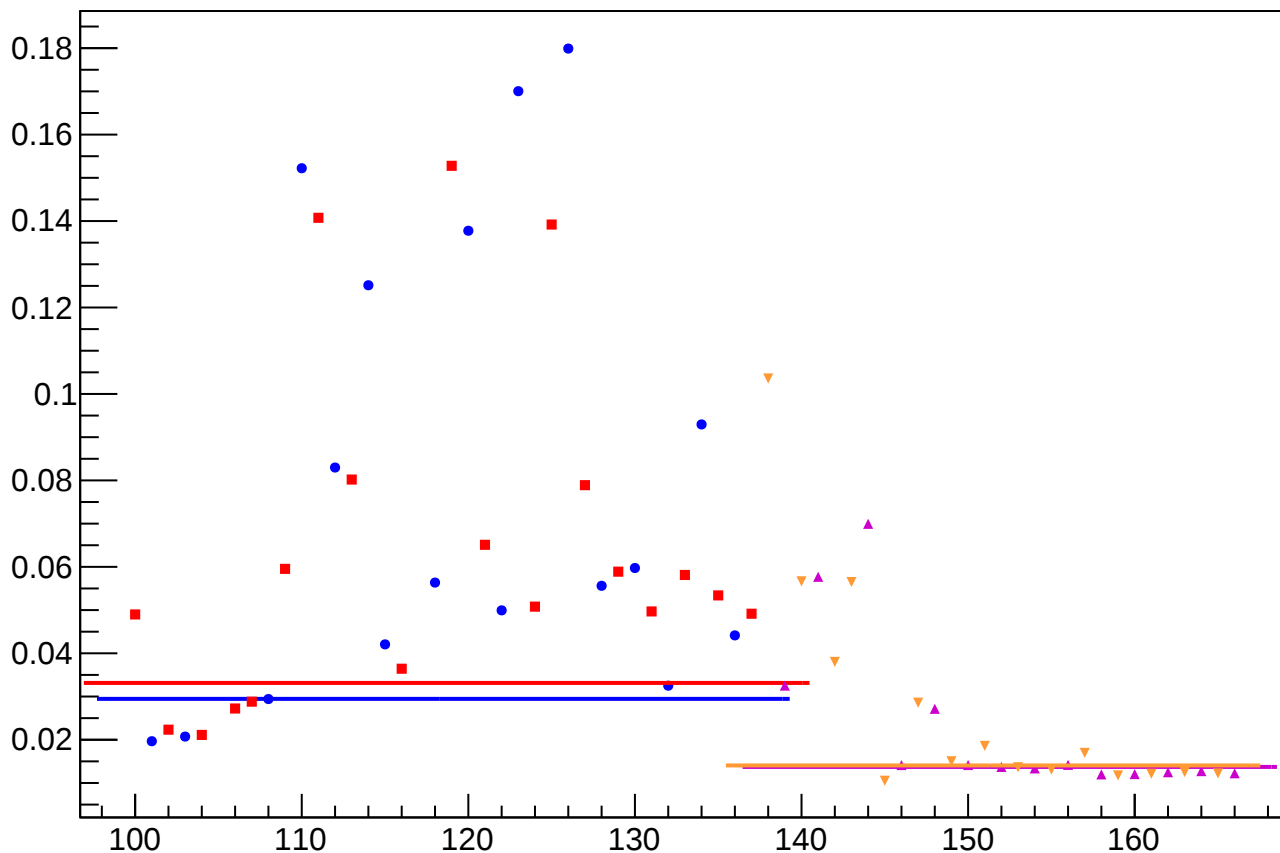
Out: 0.265+/-0.000 χ^2/NDF : 235633278027.9/33

Left In: 0.698+/-0.000

χ^2/NDF : 391543373847.3/13

All: 0.498+/-0.000 χ^2/NDF : 642740142719.5

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 :1860952.7/13

Left: 0.014+/-0.000 χ^2/NDF : 4679143.3/28

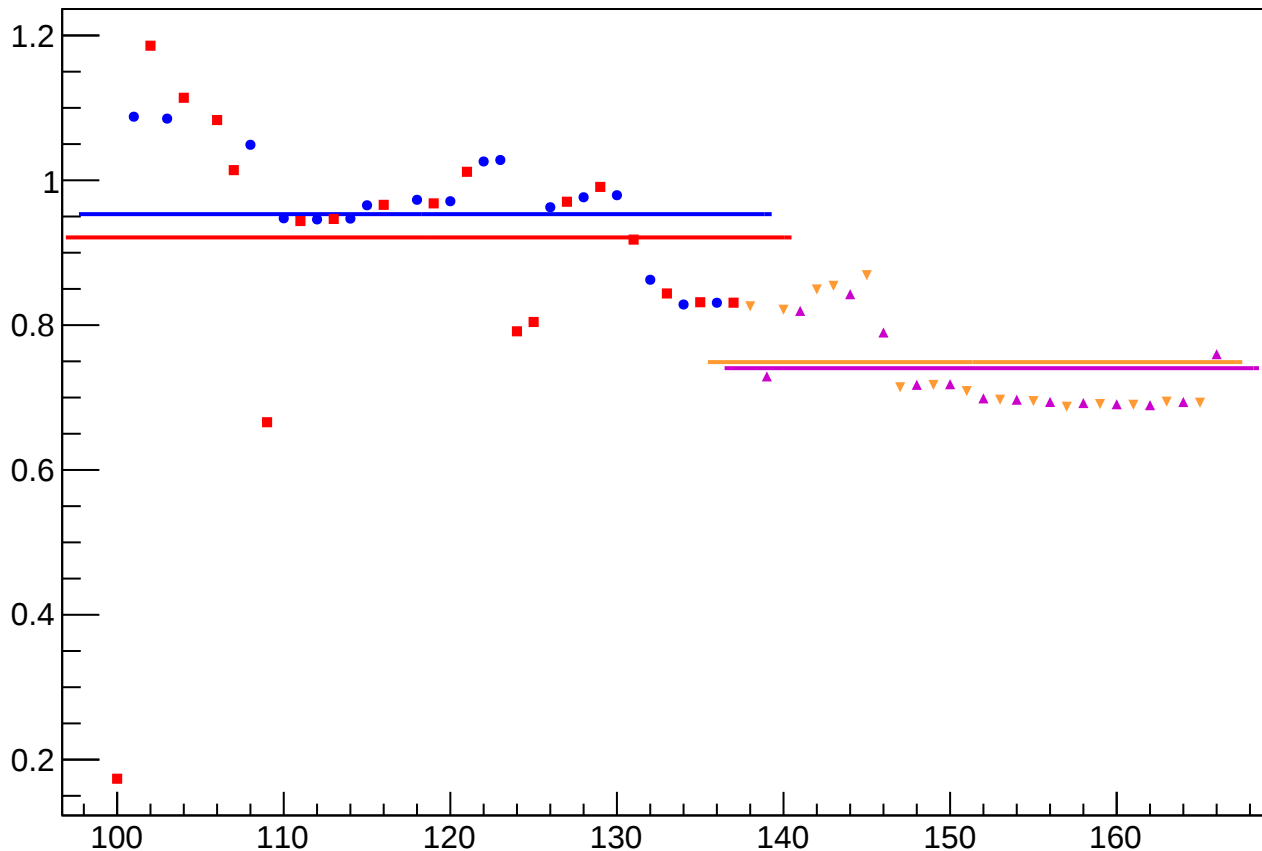
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.015+/-0.000 χ^2/NDF :6708015.4/30

Out: 0.016+/-0.000 χ^2/NDF :8258357.0/33

All: 0.015+/-0.000 χ^2/NDF : 14981963.4/64

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: 0.741+/-0.000 χ^2/NDF : 155814096.9/13

Left: 0.745+/-0.000 χ^2/NDF : 415714449.1/28

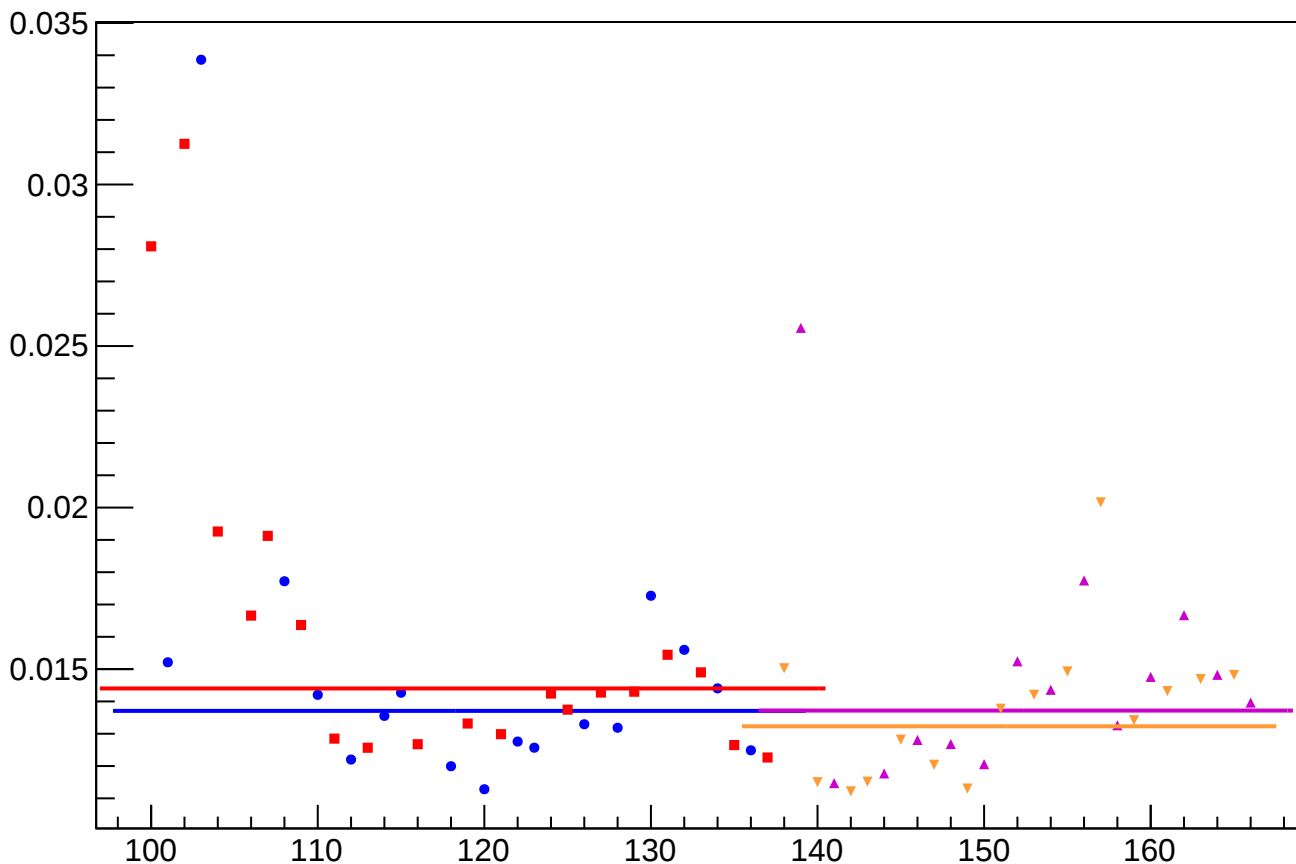
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.821+/-0.000 χ^2/NDF : 1200400024.6/30

Out: 0.809+/-0.000 χ^2/NDF : 1197982443.1/33

All: 0.815+/-0.000 χ^2/NDF : 2404455357.0/64

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 : 573018.9/13

Left: 0.013+/-0.000 χ^2/NDF : 939836.8/28

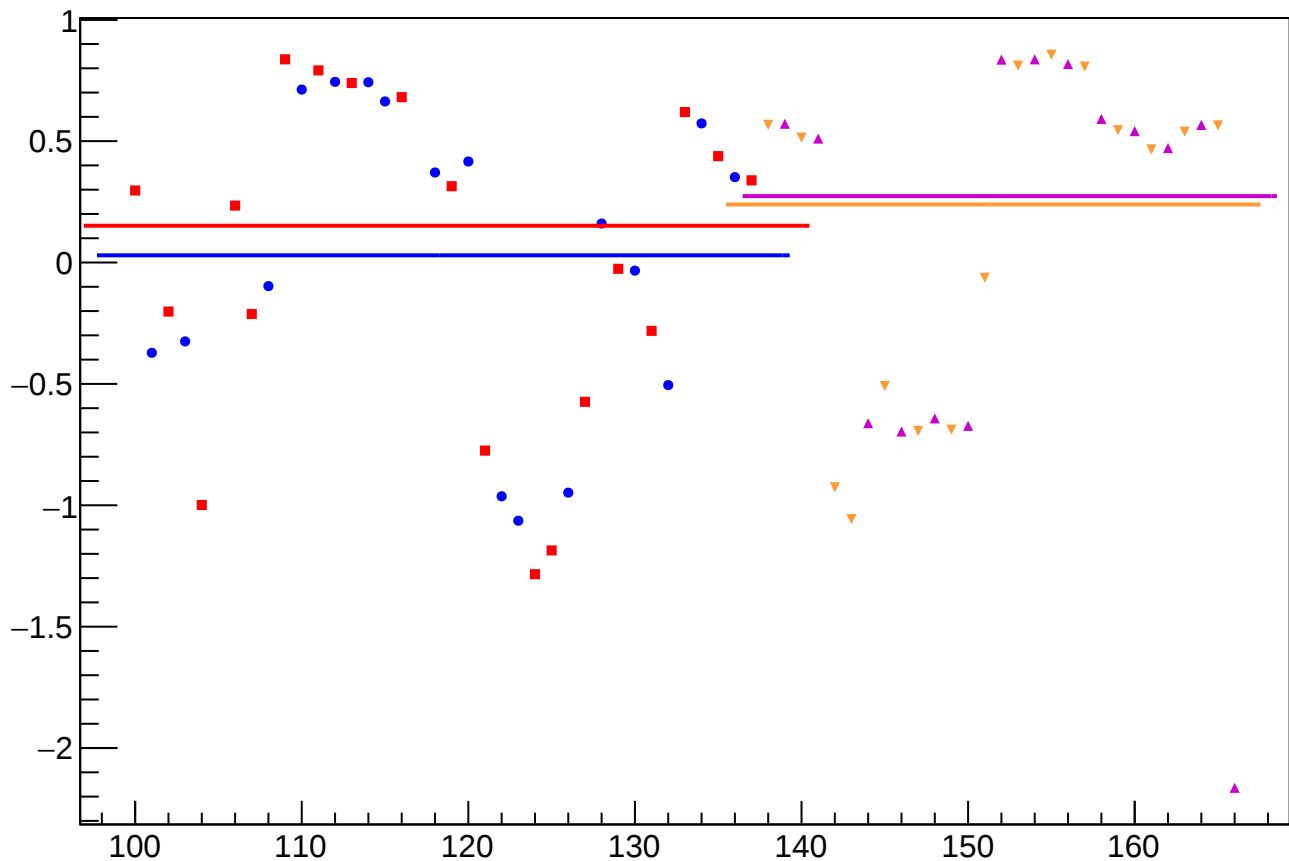
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1119340.1/30

Out: 0.014+/-0.000 χ^2/NDF : 908535.3/33

All: 0.014+/-0.000 χ^2/NDF : 2028325.1/64

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000

χ^2/NDF : 6294824795.0/16

Left: 0.256 $\pm$ 0.000

χ^2/NDF : 58598216292.4/28

Left Out: 0.239 $\pm$ 0.000

χ^2/NDF : 24266911057.7/14

Right: 0.096 $\pm$ 0.000

χ^2/NDF : 19149304558.7/35

Right Out: 0.152 $\pm$ 0.000

χ^2/NDF : 12661812059.7/18

In: 0.210 $\pm$ 0.000

χ^2/NDF : 41628750442.0/30

Out: 0.213 $\pm$ 0.000

χ^2/NDF : 37083601312.6/33

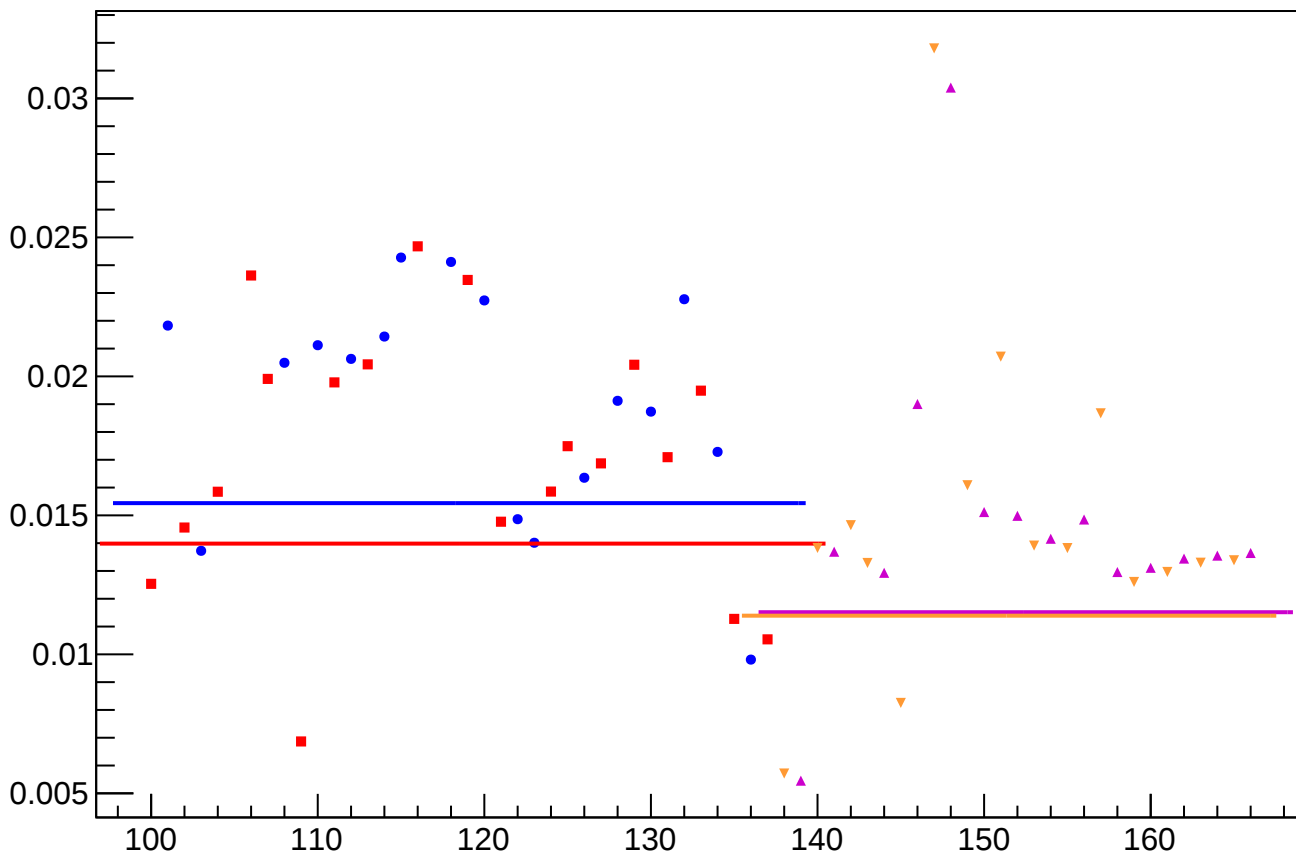
Left In: 0.273 $\pm$ 0.000

χ^2/NDF : 34290772031.3/13

All: 0.212 $\pm$ 0.000

χ^2/NDF : 78712882132.6/66

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 2900951.2/14

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012 $\pm$ 0.000 χ^2/NDF : 2863927.7/13

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 5765941.9/28

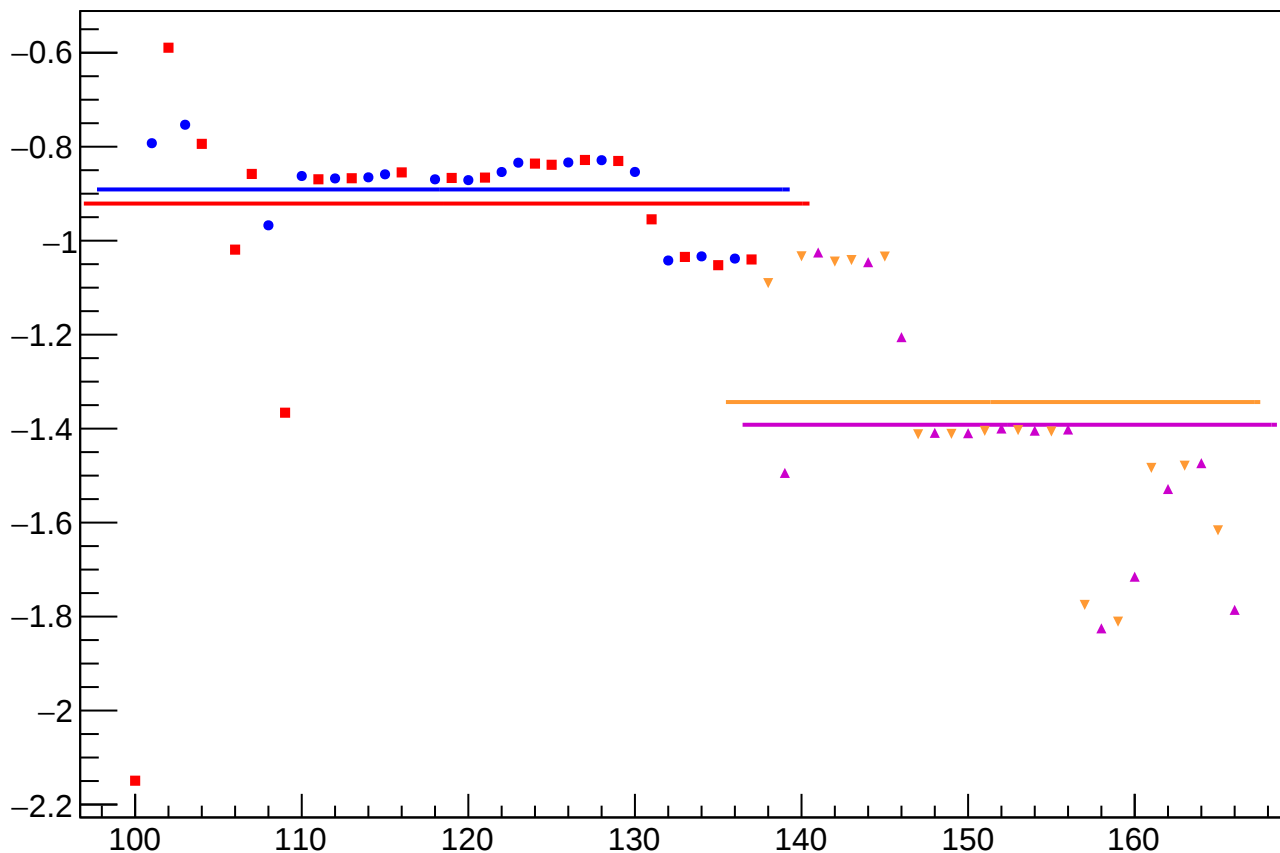
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 2777678.6/35

In: 0.013 $\pm$ 0.000 χ^2/NDF : 4566045.5/30

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 4733715.8/33

All: 0.012 $\pm$ 0.000 χ^2/NDF : 9313823.3/64

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: -1.392 ± 0.000 $\chi^2/\text{NDF}: 471028911.6/13$

Left: -1.367 ± 0.000 $\chi^2/\text{NDF}: 969422135.9/28$

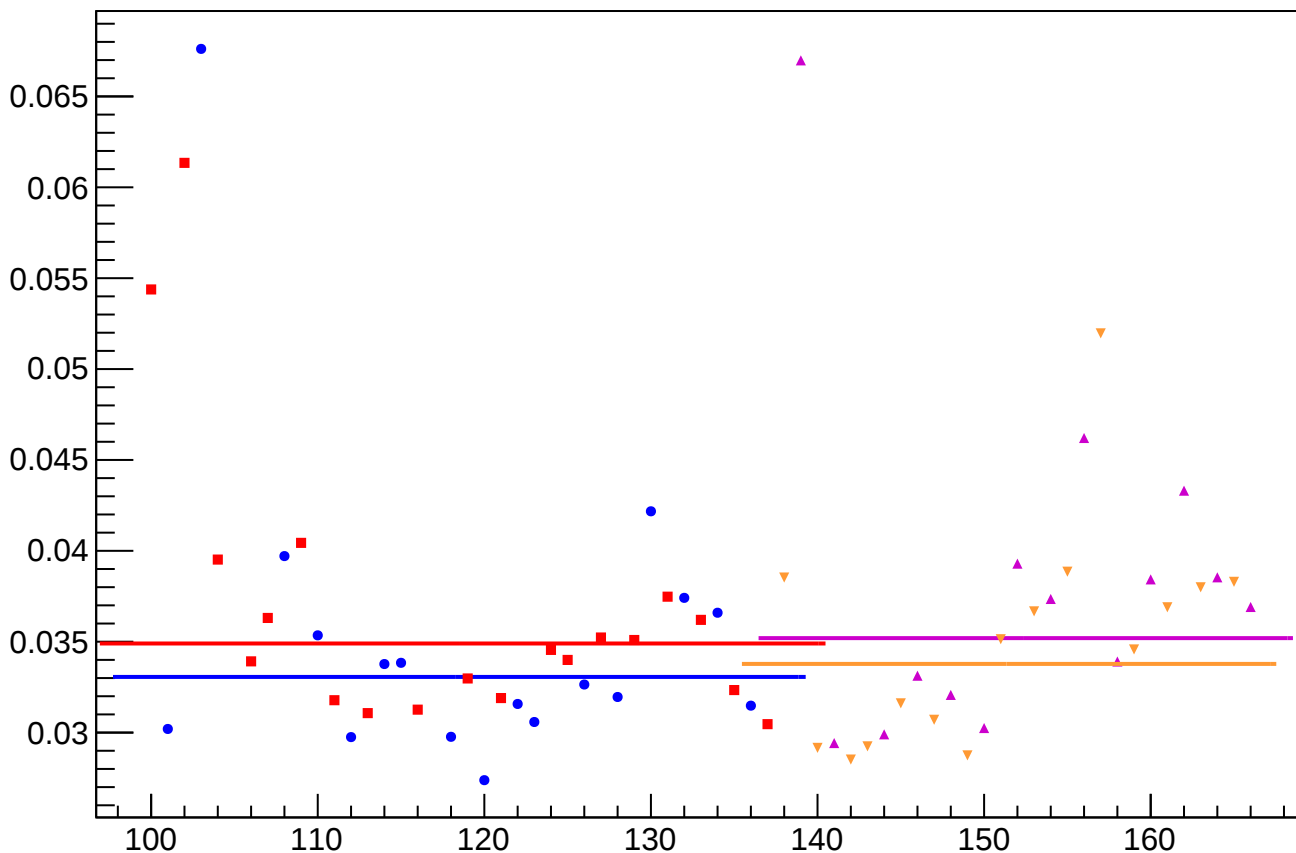
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173111604.1/35$

In: -1.185 ± 0.000 $\chi^2/\text{NDF}: 1300730015.5/30$

Out: -1.183 ± 0.000 $\chi^2/\text{NDF}: 1180597240.6/33$

All: -1.184 ± 0.000 $\chi^2/\text{NDF}: 2481336982.9/6$

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:628743.4/13

Left: 0.034 $\pm$ 0.000 χ^2 /NDF: 1032308.4/28

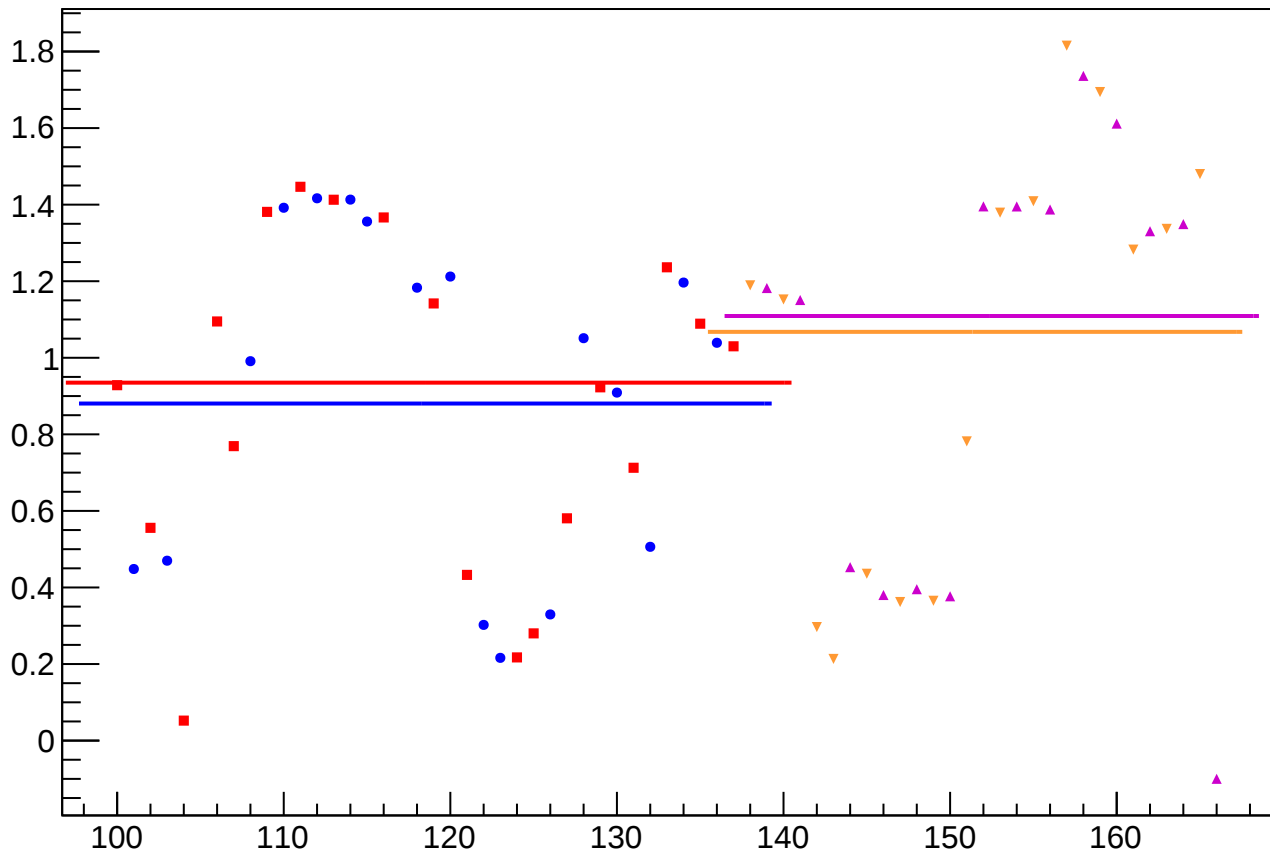
Right: 0.034 $\pm$ 0.000 χ^2 /NDF: 701180.7/35

In: 0.034 $\pm$ 0.000 χ^2 /NDF:1066741.7/30

Out: 0.034 $\pm$ 0.000 χ^2 /NDF:669779.2/33

All: 0.034 $\pm$ 0.000 χ^2 /NDF: 1736682.4/64

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000 χ^2 /NDF: 6400108121.4/16

Left Out: 1.068 $\pm$ 0.000 χ^2 /NDF: 30686810479.3/14

Right Out: 0.935 $\pm$ 0.000 χ^2 /NDF: 9833525935.6/18

Left In: 1.109 $\pm$ 0.000 χ^2 /NDF: 30161396477.5/13

Left: 1.088 $\pm$ 0.000 χ^2 /NDF: 60959351064.2/28

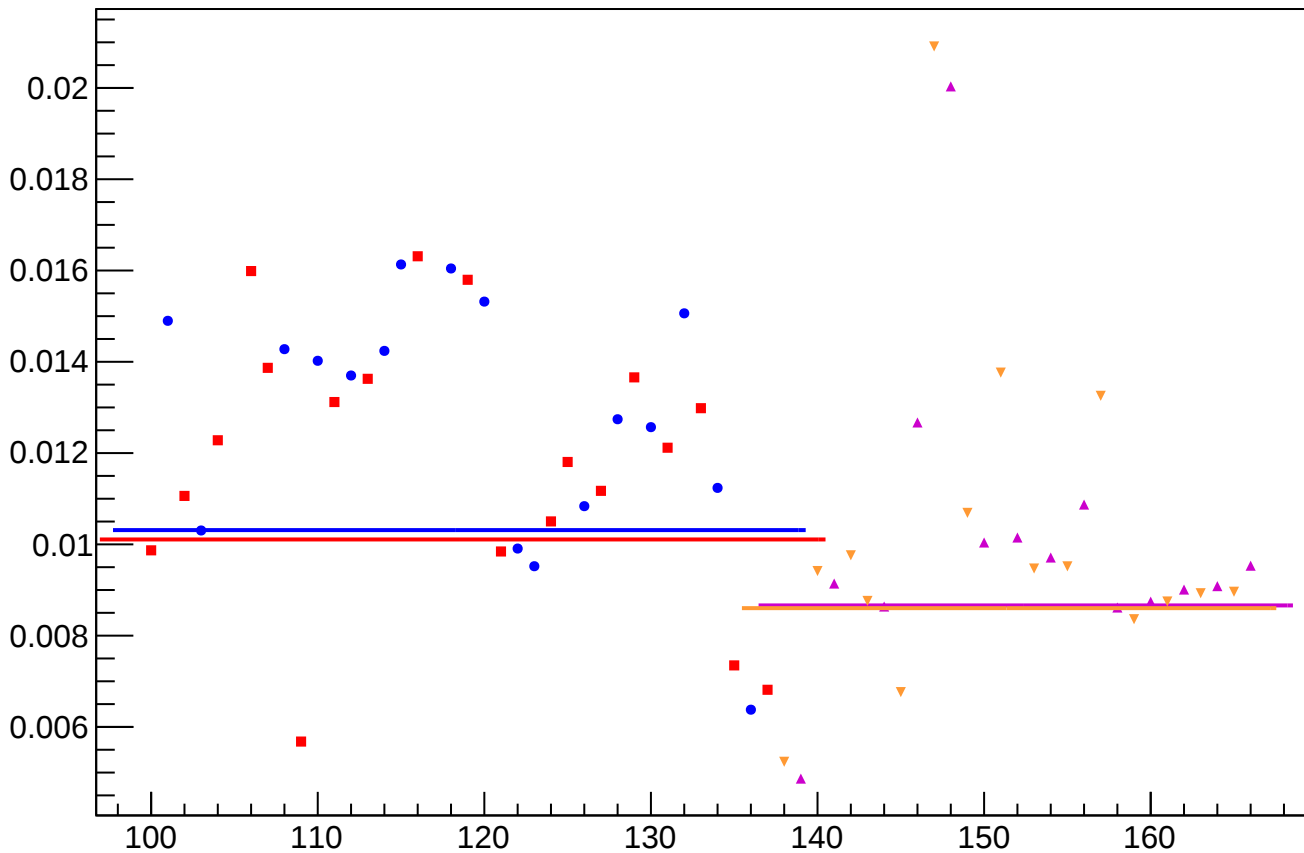
Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

In: 1.042 $\pm$ 0.000 χ^2 /NDF: 38513375798.9/30

Out: 1.028 $\pm$ 0.000 χ^2 /NDF: 41221834485.7/33

All: 1.035 $\pm$ 0.000 χ^2 /NDF: 79755390340.4/66

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 : 1568855.6/13

Left: 0.009+/-0.000 χ^2/NDF : 3226929.0/28

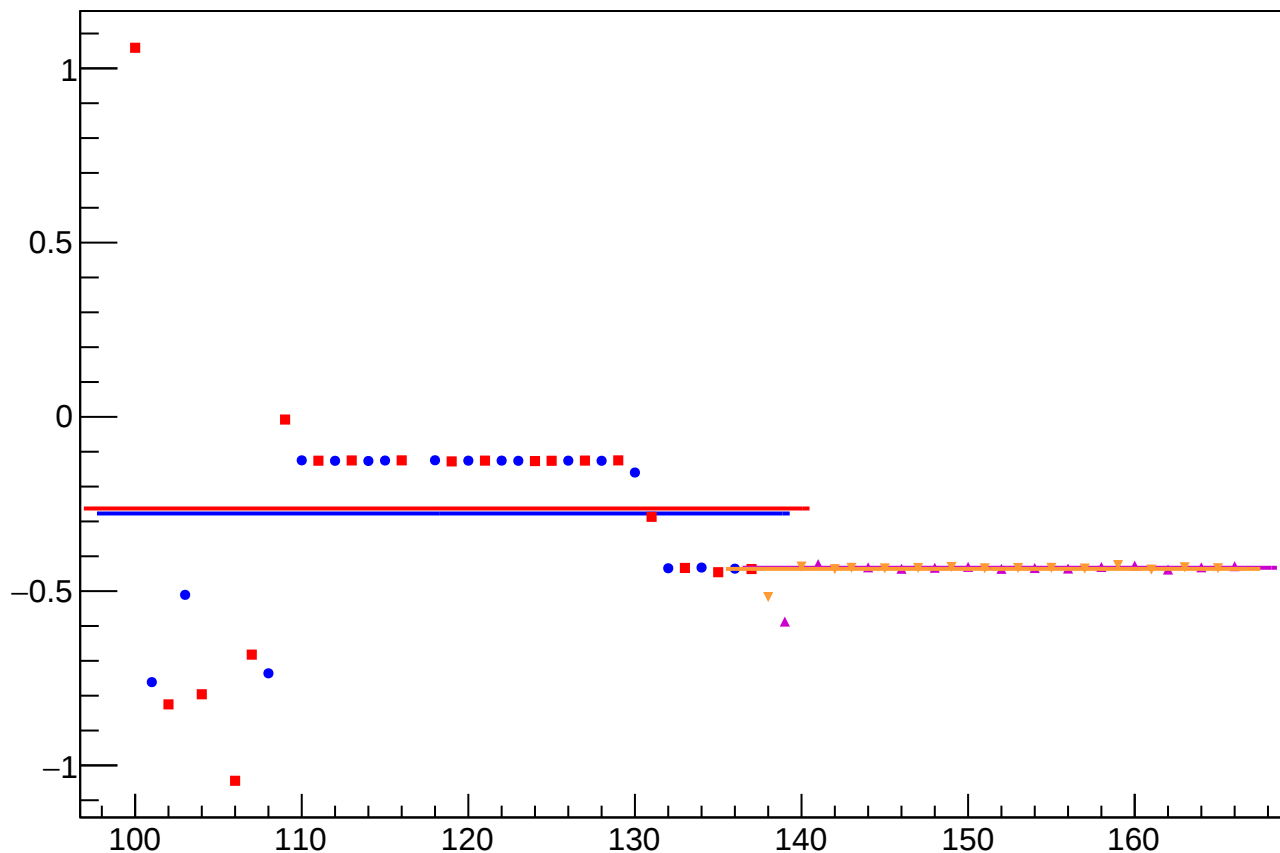
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF : 3003304.4/30

Out: 0.009+/-0.000 χ^2/NDF : 3016547.7/33

All: 0.009+/-0.000 χ^2/NDF : 6021224.1/64

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 : 23478504.7/13

Left: -0.435+/-0.000 χ^2/NDF : 49560591.2/28

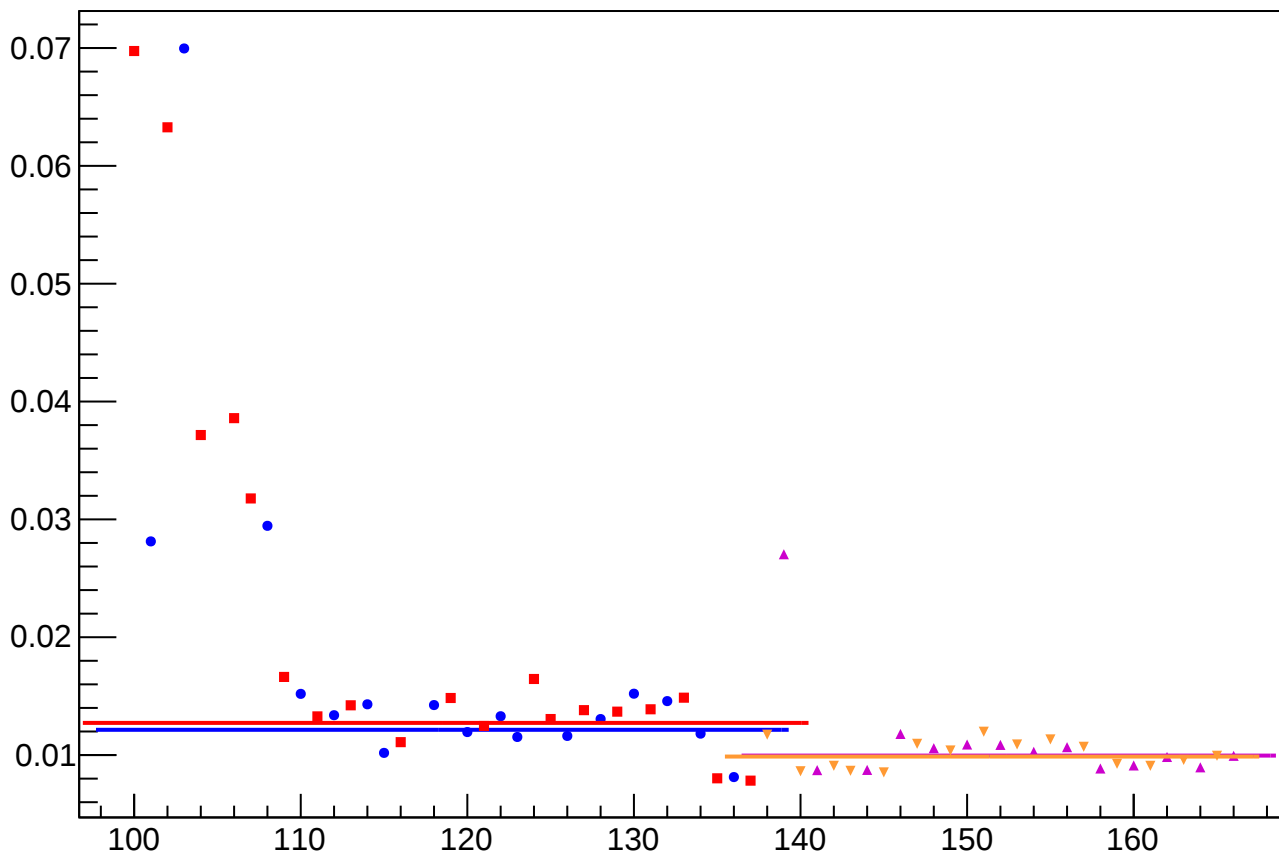
Right: -0.270+/-0.000 χ^2/NDF : 1952121842.2/35

In: -0.392+/-0.000 χ^2/NDF : 1537095952.6/30

Out: -0.394+/-0.000 χ^2/NDF : 1715150161.6/33

All: -0.393+/-0.000 χ^2/NDF : 3252519653.2/6

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1727494.7/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:224092.3/14

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1969165.0/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:693889.2/13

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 918598.4/28

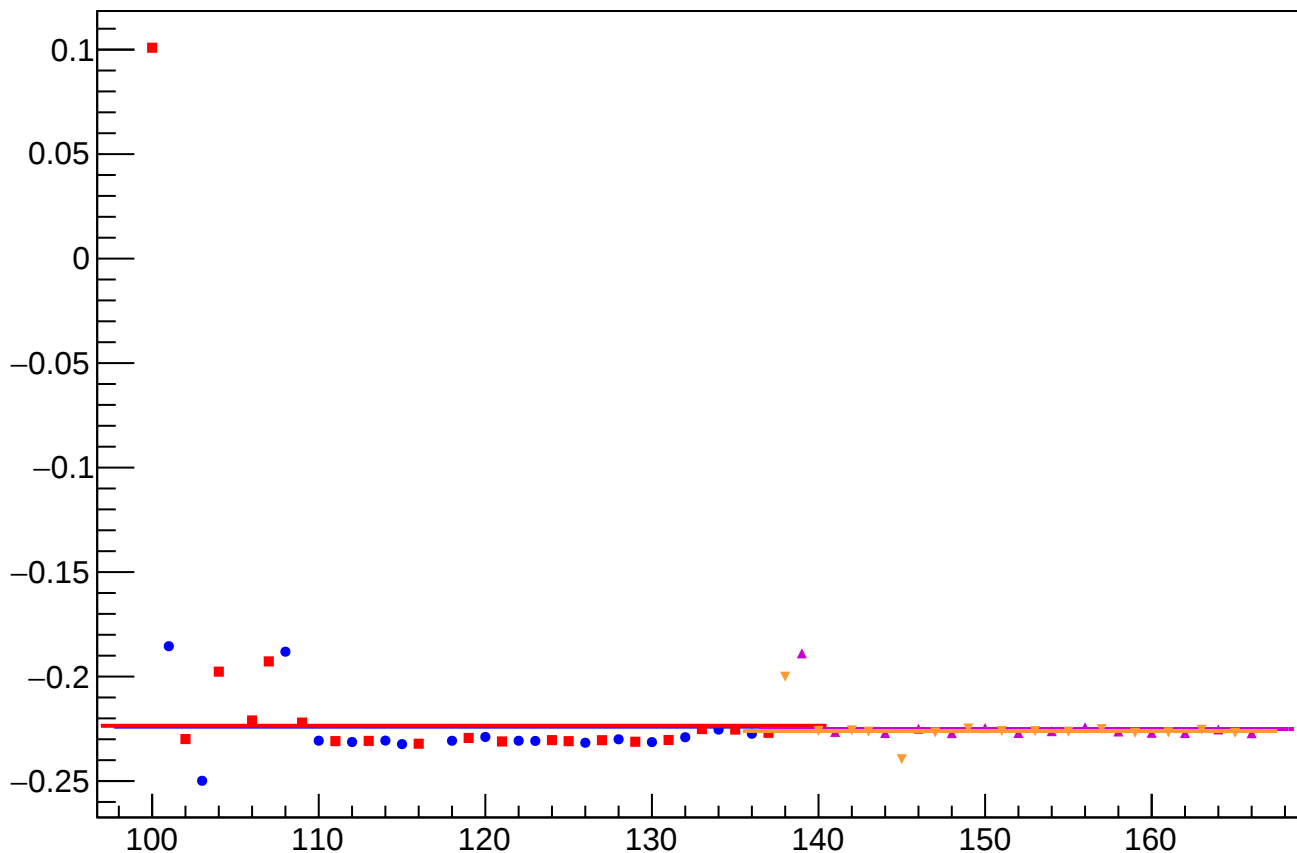
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2647479.5/30

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2563373.4/33

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5211005.8/64

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 : 14336533.3/13

Left: -0.226+/-0.000 χ^2/NDF : 35103766.7/28

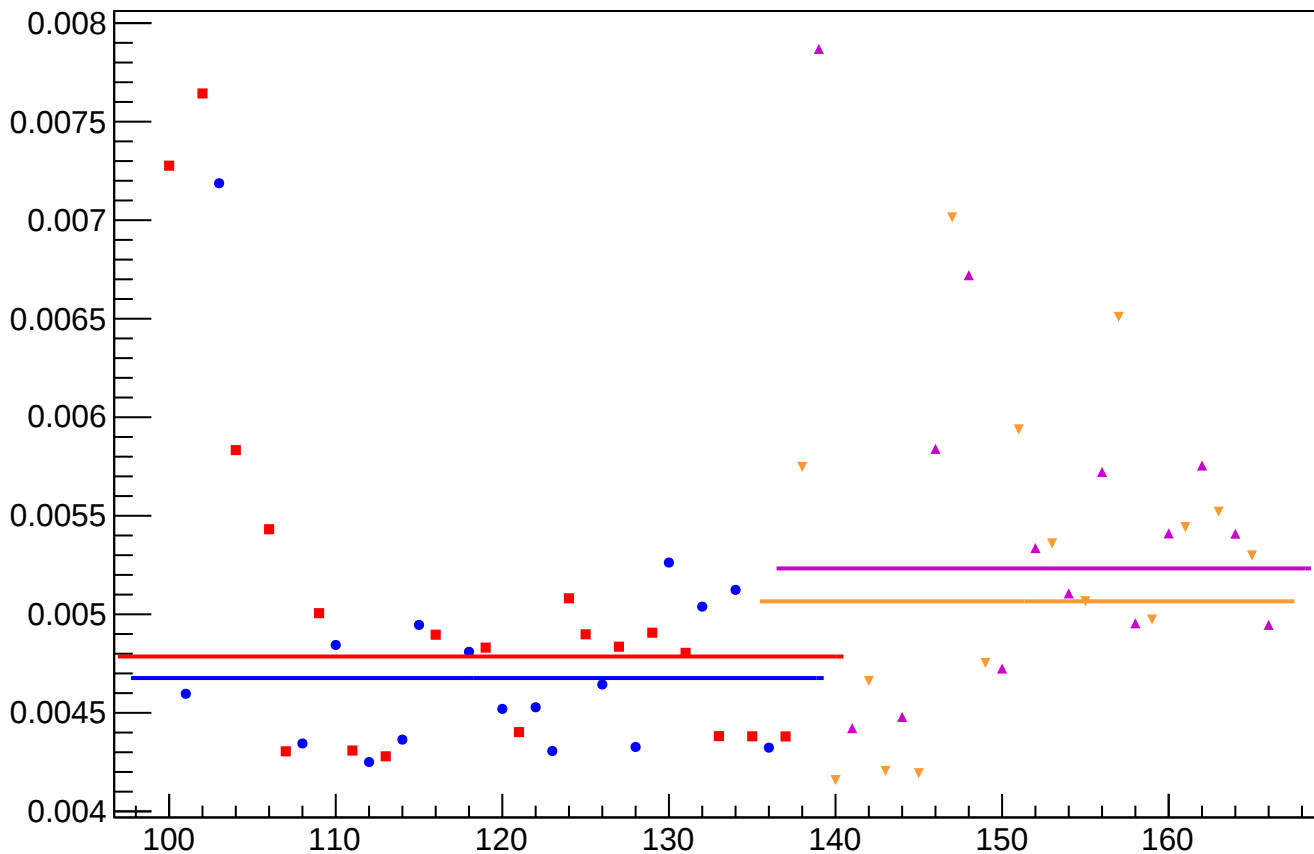
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89251267.4/30

Out: -0.225+/-0.000 χ^2/NDF : 189742153.9/33

All: -0.225+/-0.000 χ^2/NDF : 279046675.2/64

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 : 386087.7/13

Left: 0.005+/-0.000 χ^2/NDF : 844253.0/28

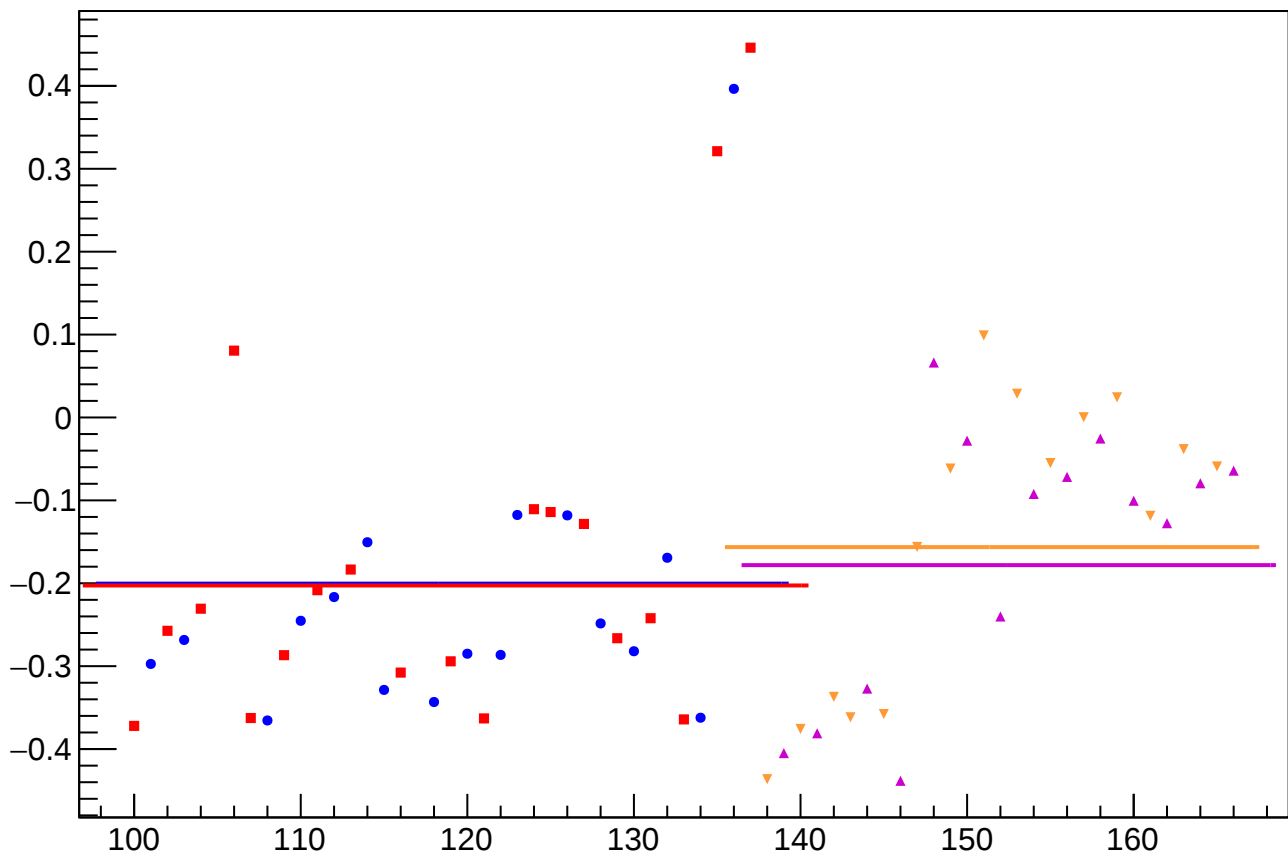
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 665159.6/30

Out: 0.005+/-0.000 χ^2/NDF : 721424.7/33

All: 0.005+/-0.000 χ^2/NDF : 1387881.3/64

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: -0.178+/-0.000 χ^2/NDF : 7883772801.6/13

Left: -0.167+/-0.000 χ^2/NDF : 18973909280.8/28

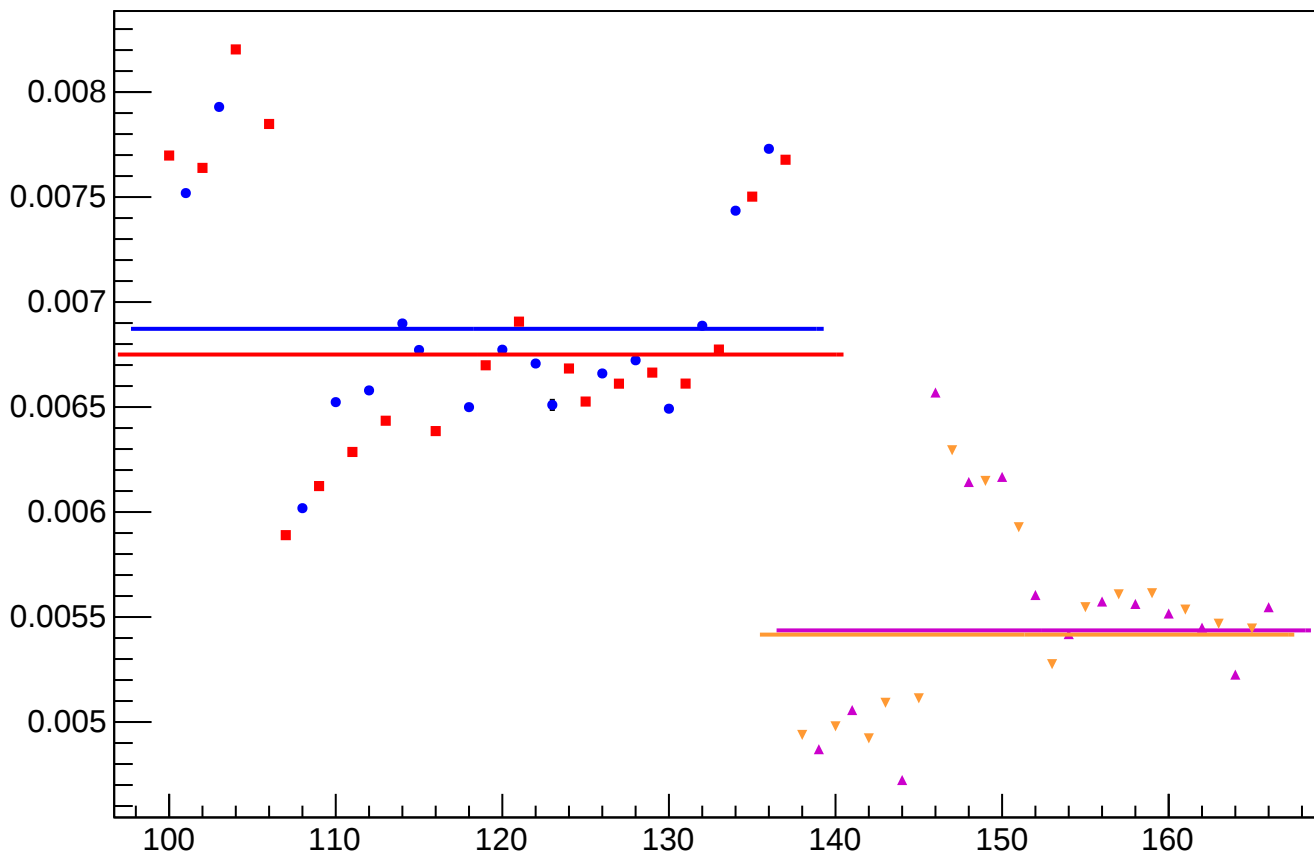
Right: -0.202+/-0.000 χ^2/NDF : 11002181720.9/35

In: -0.185+/-0.000 χ^2/NDF : 13906419336.4/30

Out: -0.170+/-0.000 χ^2/NDF : 16262865525.5/33

All: -0.177+/-0.000 χ^2/NDF : 30219655188.2/100

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 :146204.1/13

Left: 0.005+/-0.000 χ^2/NDF : 251912.3/28

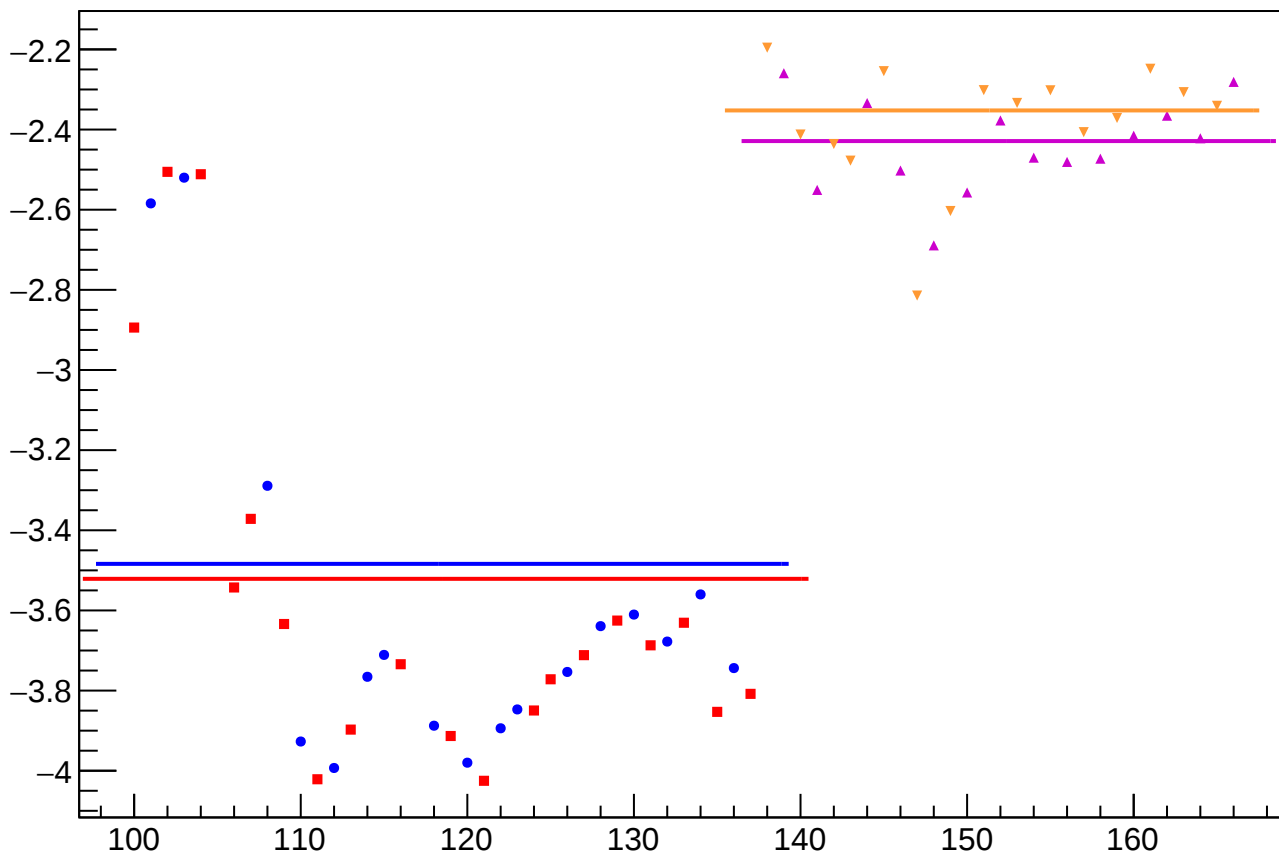
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :631488.2/30

Out: 0.006+/-0.000 χ^2/NDF :586342.0/33

All: 0.006+/-0.000 χ^2/NDF : 1218488.7/64

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484 $\pm$ 0.000 χ^2 /NDF: 27174302276.9/16

Left Out: -2.352 $\pm$ 0.000 χ^2 /NDF: 1653992234.3/14

Right Out: -3.521 $\pm$ 0.000 χ^2 /NDF: 26472007419.8/18

Left In: -2.429 $\pm$ 0.000 χ^2 /NDF: 1097305166.8/13

Left: -2.390 $\pm$ 0.000 χ^2 /NDF: 3129710504.7/28

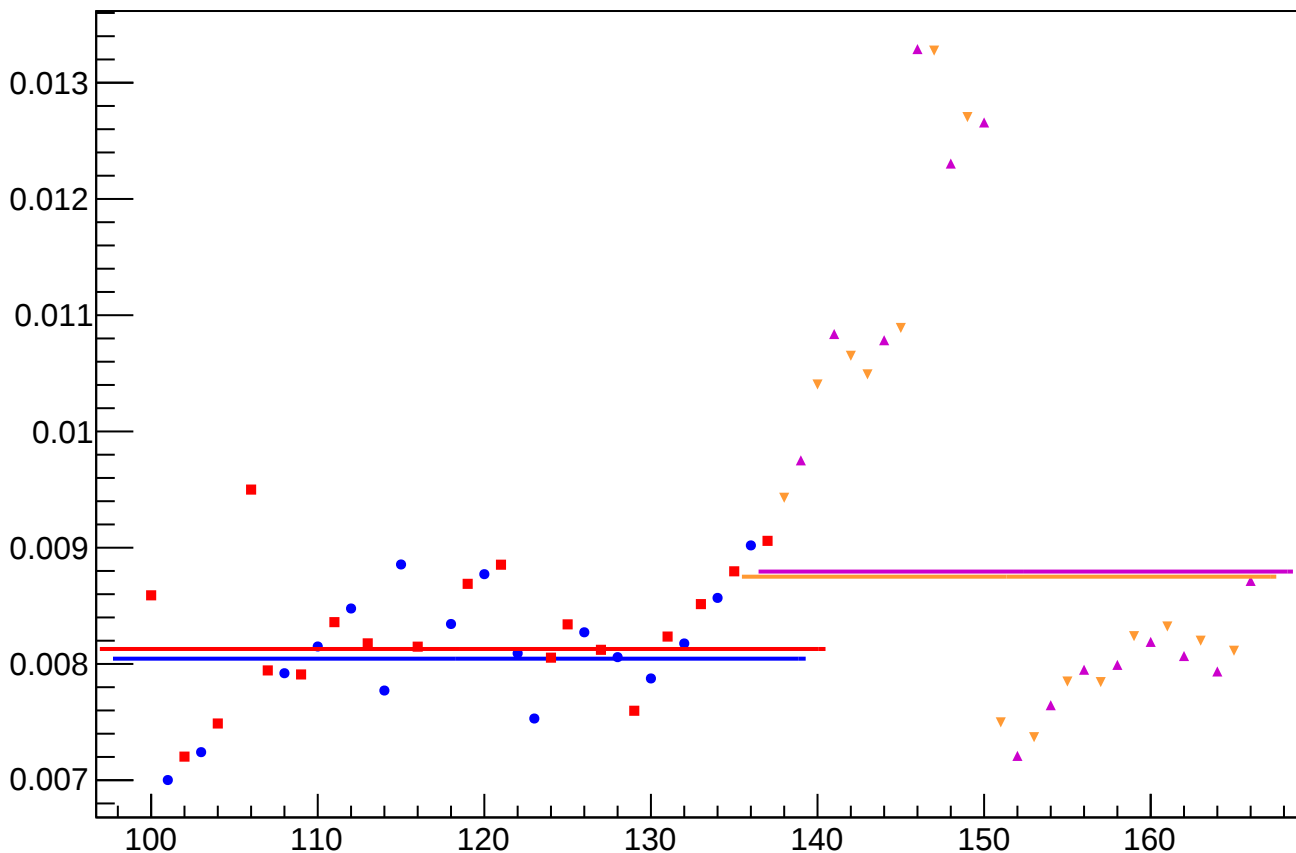
Right: -3.503 $\pm$ 0.000 χ^2 /NDF: 53717081893.8/35

In: -2.894 $\pm$ 0.000 χ^2 /NDF: 90839457792.1/30

Out: -2.864 $\pm$ 0.000 χ^2 /NDF: 106841059872.1/33

All: -2.879 $\pm$ 0.000 χ^2 /NDF: 197782574090.2

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 : 698766.1/13

Left: 0.009+/-0.000 χ^2/NDF : 1288298.8/28

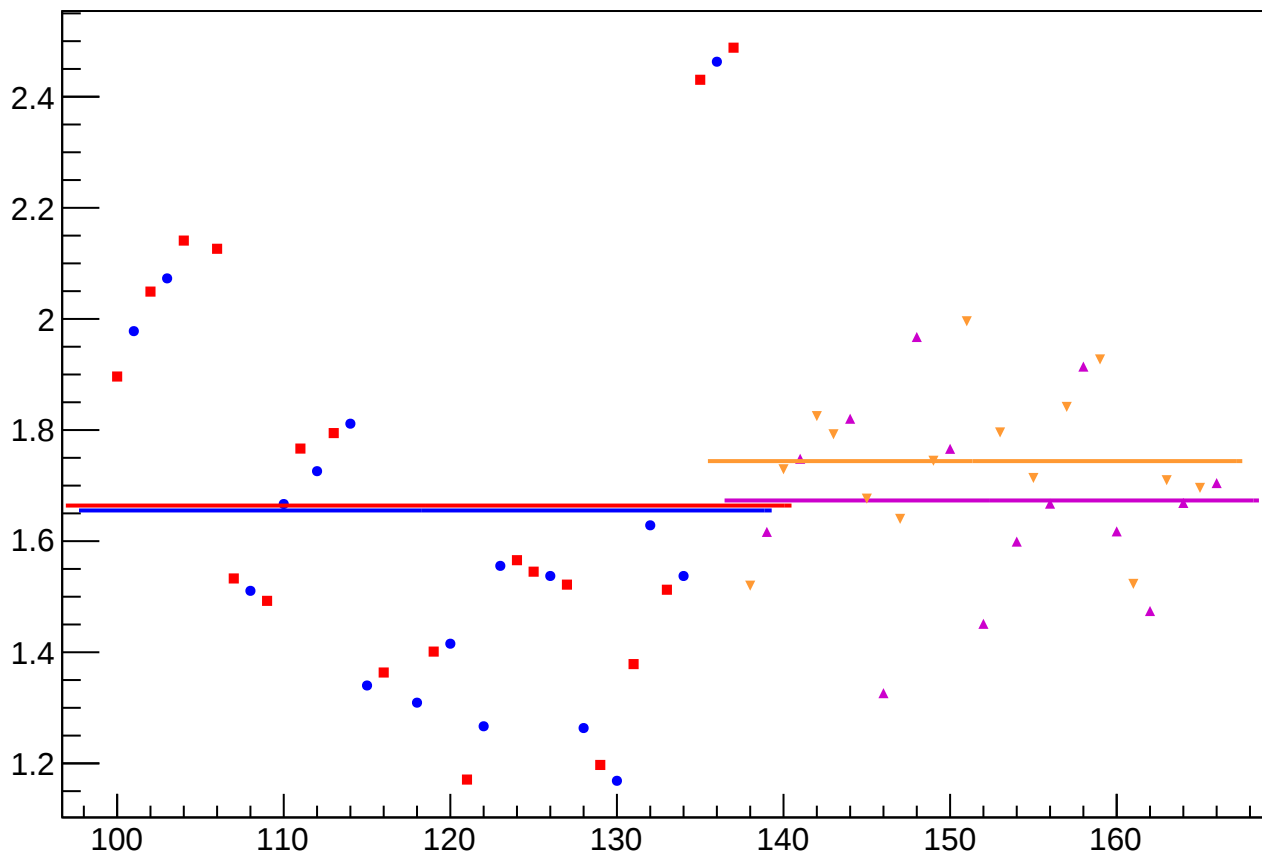
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 833877.7/30

Out: 0.008+/-0.000 χ^2/NDF : 691316.0/33

All: 0.008+/-0.000 χ^2/NDF : 1525238.6/64

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: 1.673 $\pm$ 0.000 χ^2 /NDF:2247533421.8/13

Left: 1.709 $\pm$ 0.000 χ^2 /NDF: 3986748888.9/28

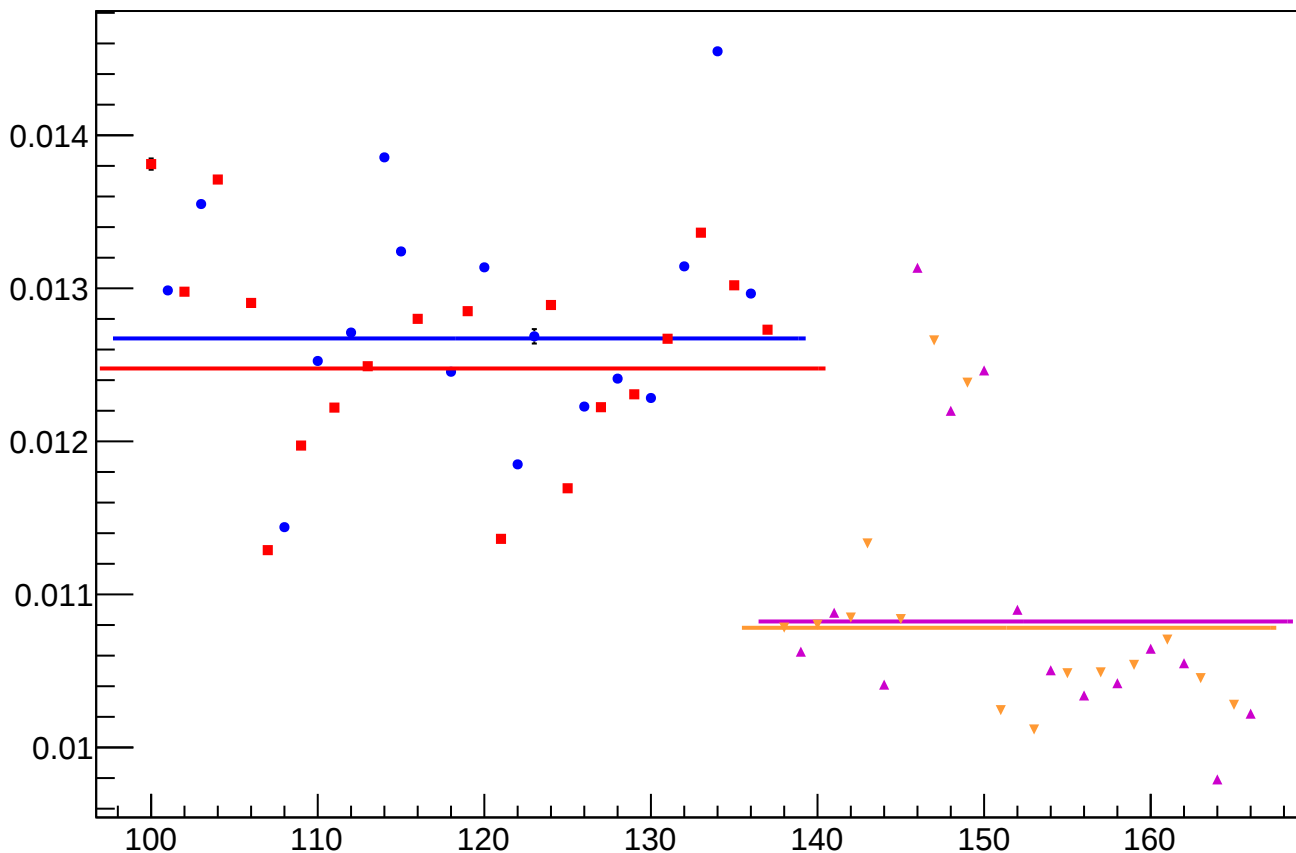
Right: 1.660 $\pm$ 0.000 χ^2 /NDF: 12422392259.9/35

In: 1.668 $\pm$ 0.000 χ^2 /NDF:8733021044.1/30

Out: 1.718 $\pm$ 0.000 χ^2 /NDF:7650914623.1/33

All: 1.693 $\pm$ 0.000 χ^2 /NDF: 16549777698.8/66

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 : 117182.6/13

Left: 0.011+/-0.000 χ^2/NDF : 194798.7/28

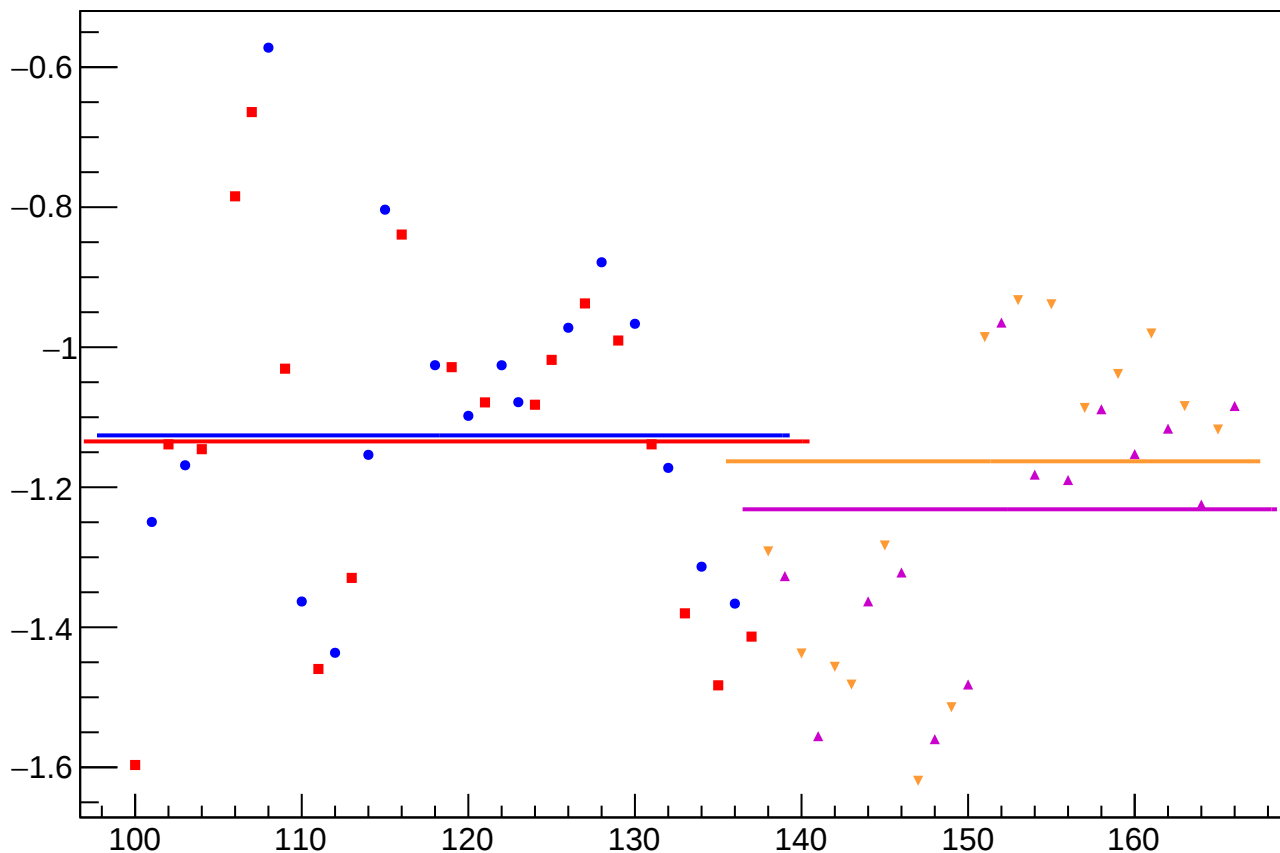
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF : 339273.3/30

Out: 0.011+/-0.000 χ^2/NDF : 287101.2/33

All: 0.011+/-0.000 χ^2/NDF : 627093.6/64

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000

χ^2/NDF : 3574776639.2/16

Left: -1.196+/-0.000

χ^2/NDF : 11806441240.1/28

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: -1.194+/-0.000

χ^2/NDF : 8567143669.9/30

Out: -1.153+/-0.000

χ^2/NDF : 10767585548.7/33

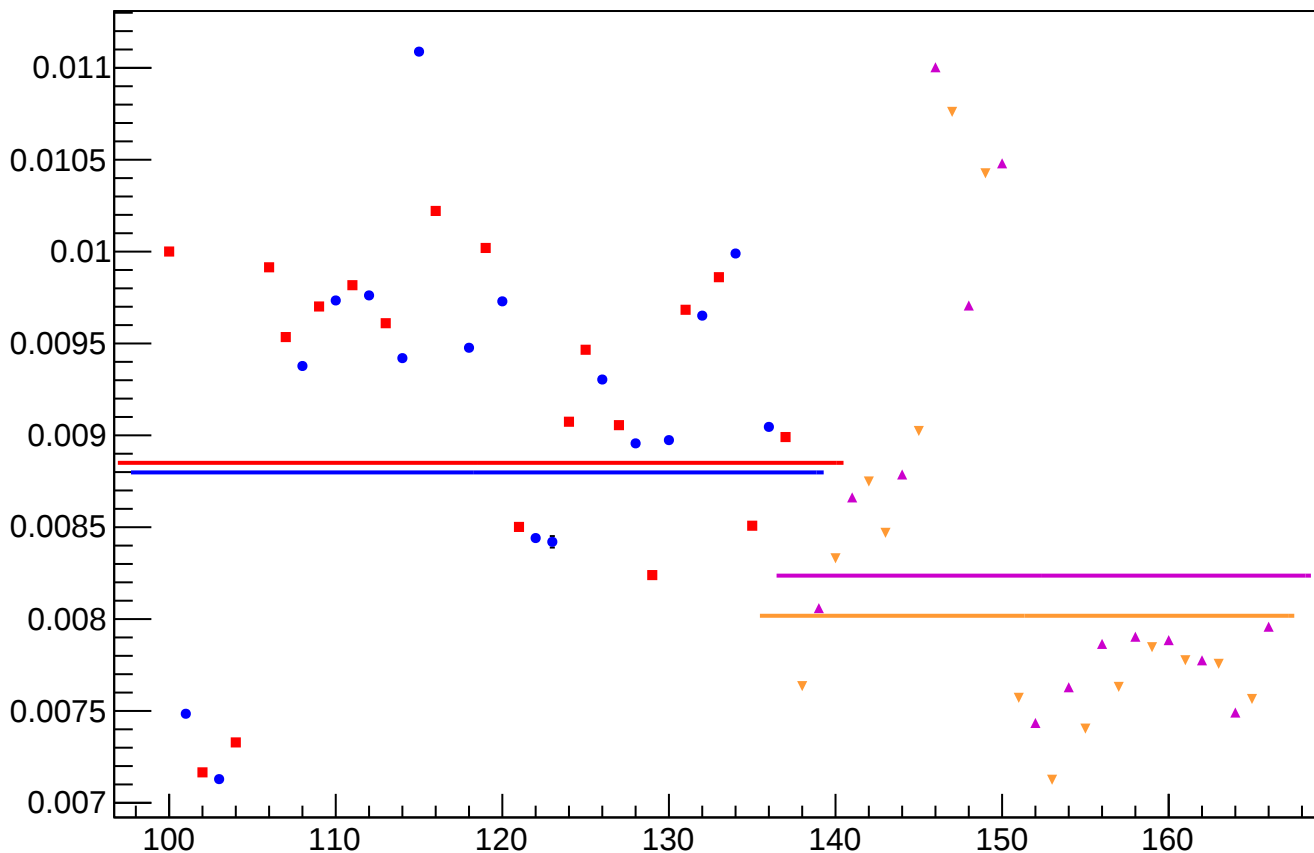
Left In: -1.231+/-0.000

χ^2/NDF : 4404389388.5/13

All: -1.173+/-0.000

χ^2/NDF : 19528262482.1/165

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 : 242655.6/13

Left: 0.008+/-0.000 χ^2/NDF : 483860.4/28

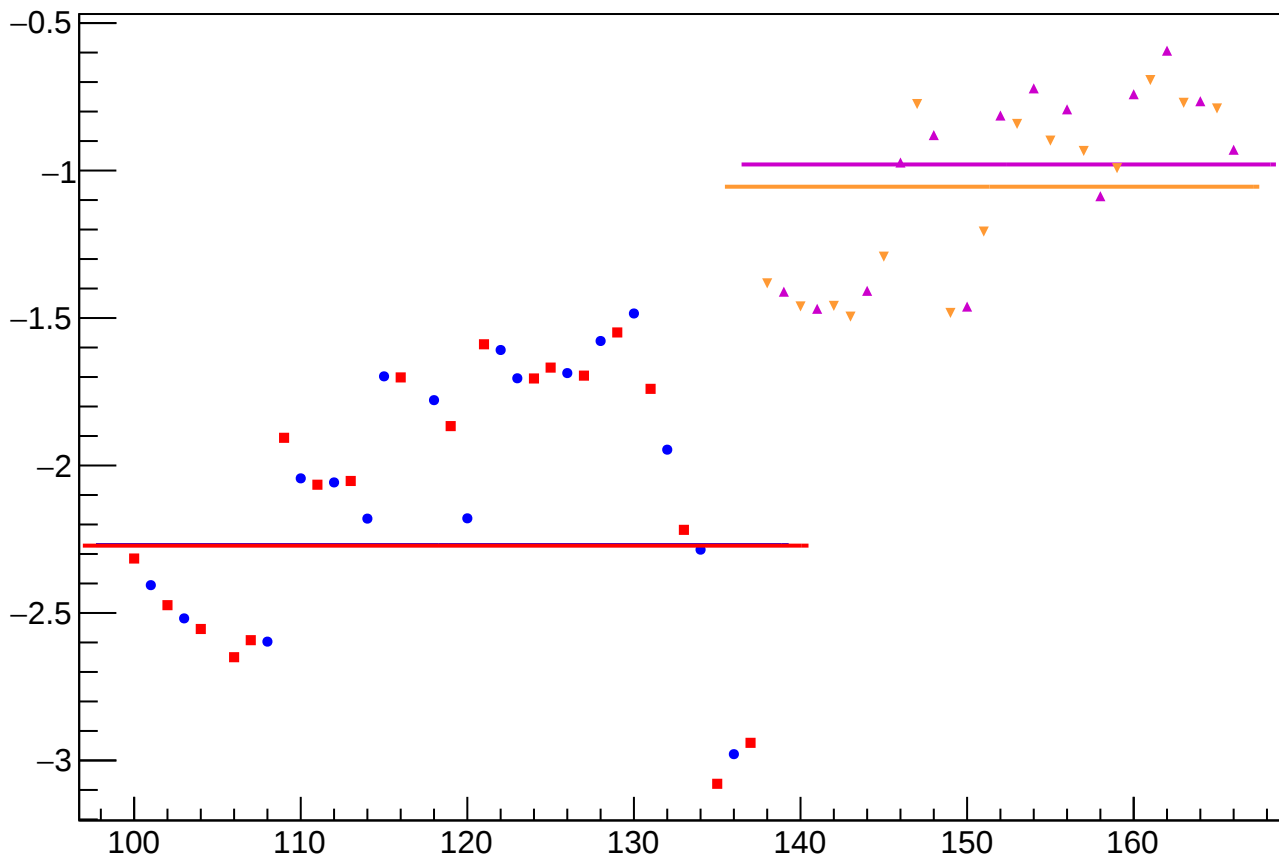
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF : 427551.8/30

Out: 0.008+/-0.000 χ^2/NDF : 483970.6/33

All: 0.008+/-0.000 χ^2/NDF : 915413.3/64

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000

χ^2/NDF : 17408567065.9/16

Left: -1.017+/-0.000

χ^2/NDF : 35701872718.2/28

Left Out: -1.055+/-0.000

χ^2/NDF : 17341774983.6/14

Right: -2.271+/-0.000

χ^2/NDF : 36418070927.0/35

Right Out: -2.272+/-0.000

χ^2/NDF : 19009331715.4/18

In: -1.349+/-0.000

χ^2/NDF : 139842640909.6/30

Out: -1.437+/-0.000

χ^2/NDF : 137450607783.1/33

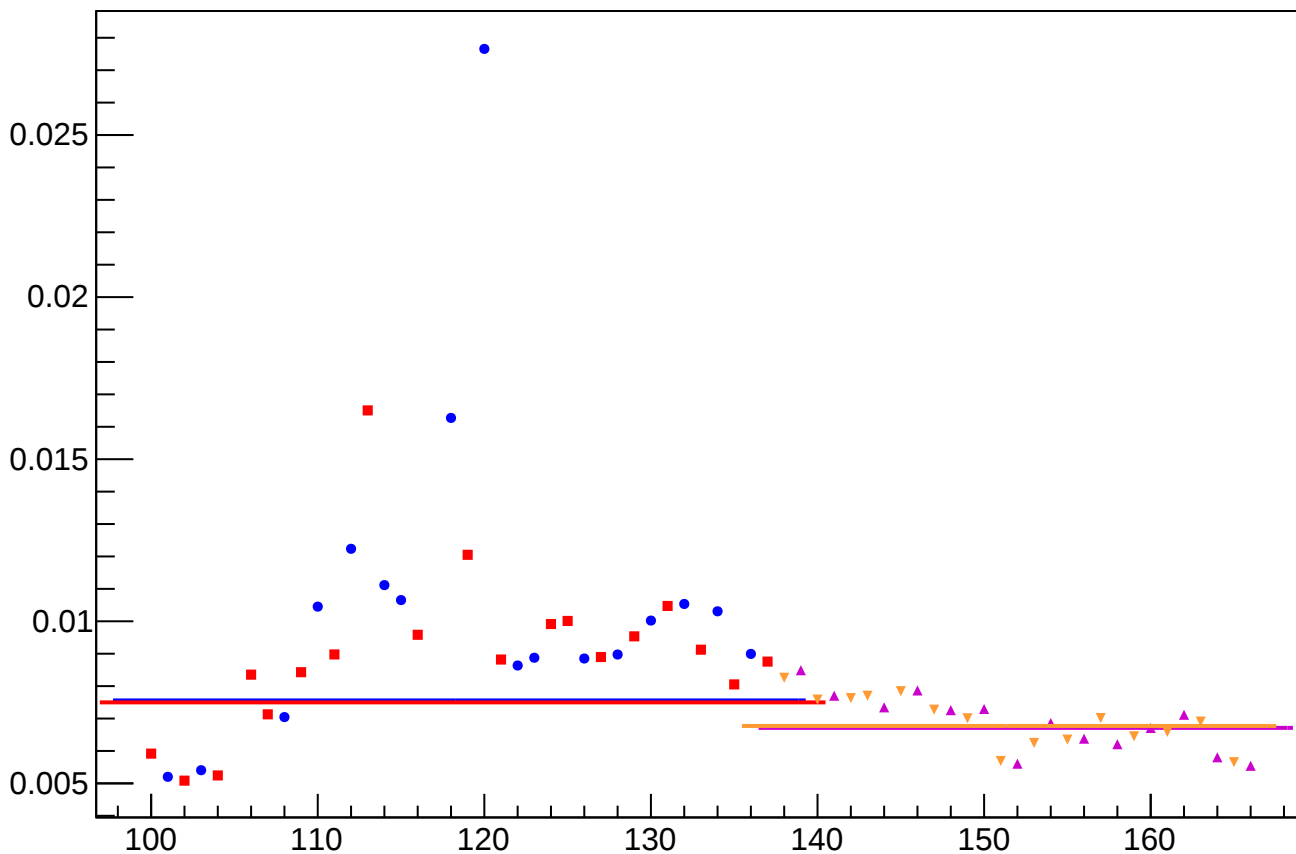
Left In: -0.979+/-0.000

χ^2/NDF : 17738407405.3/13

All: -1.394+/-0.000

χ^2/NDF : 278520394628.3

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 :296635.1/13

Left: 0.007+/-0.000 χ^2/NDF : 534396.2/28

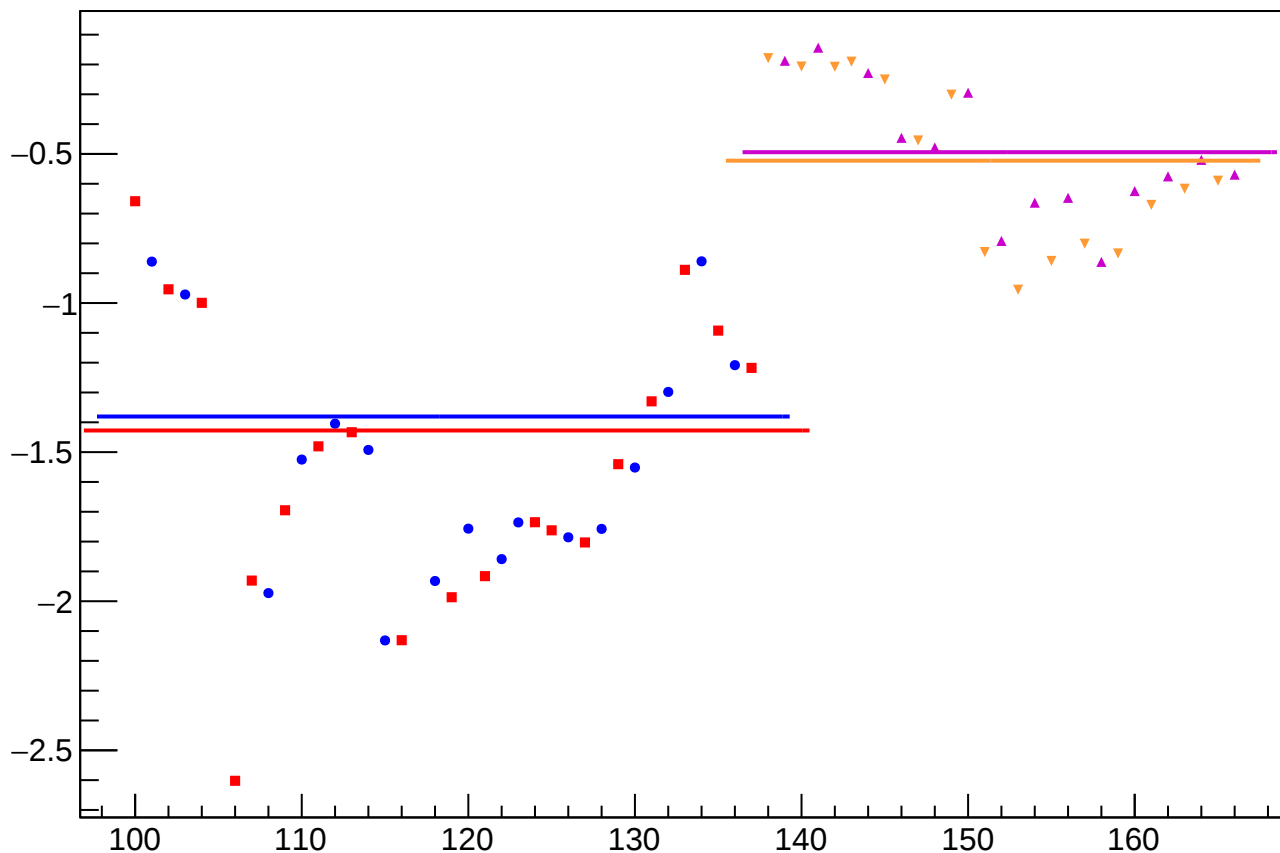
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF :1607662.5/30

Out: 0.007+/-0.000 χ^2/NDF :1243180.8/33

All: 0.007+/-0.000 χ^2/NDF : 2851495.2/64

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.509+/-0.000

χ^2/NDF : 72927788618.8/28

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: -0.660+/-0.000

χ^2/NDF : 131138730917.1/30

Out: -0.710+/-0.000

χ^2/NDF : 172686286947.9/33

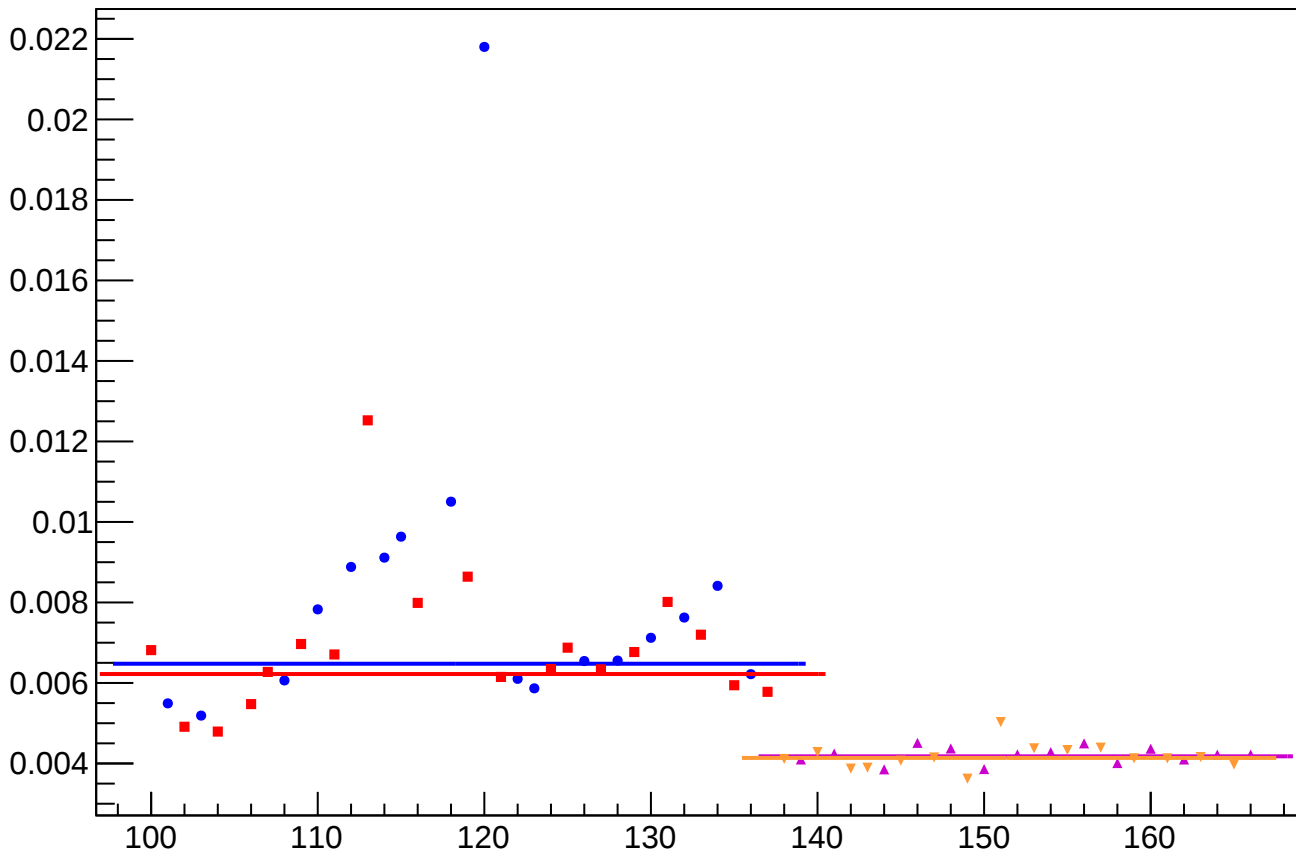
Left In: -0.494+/-0.000

χ^2/NDF : 28221066371.1/13

All: -0.686+/-0.000

χ^2/NDF : 304717649924.1

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 : 46870.6/13

Left: 0.004+/-0.000 χ^2/NDF : 137091.6/28

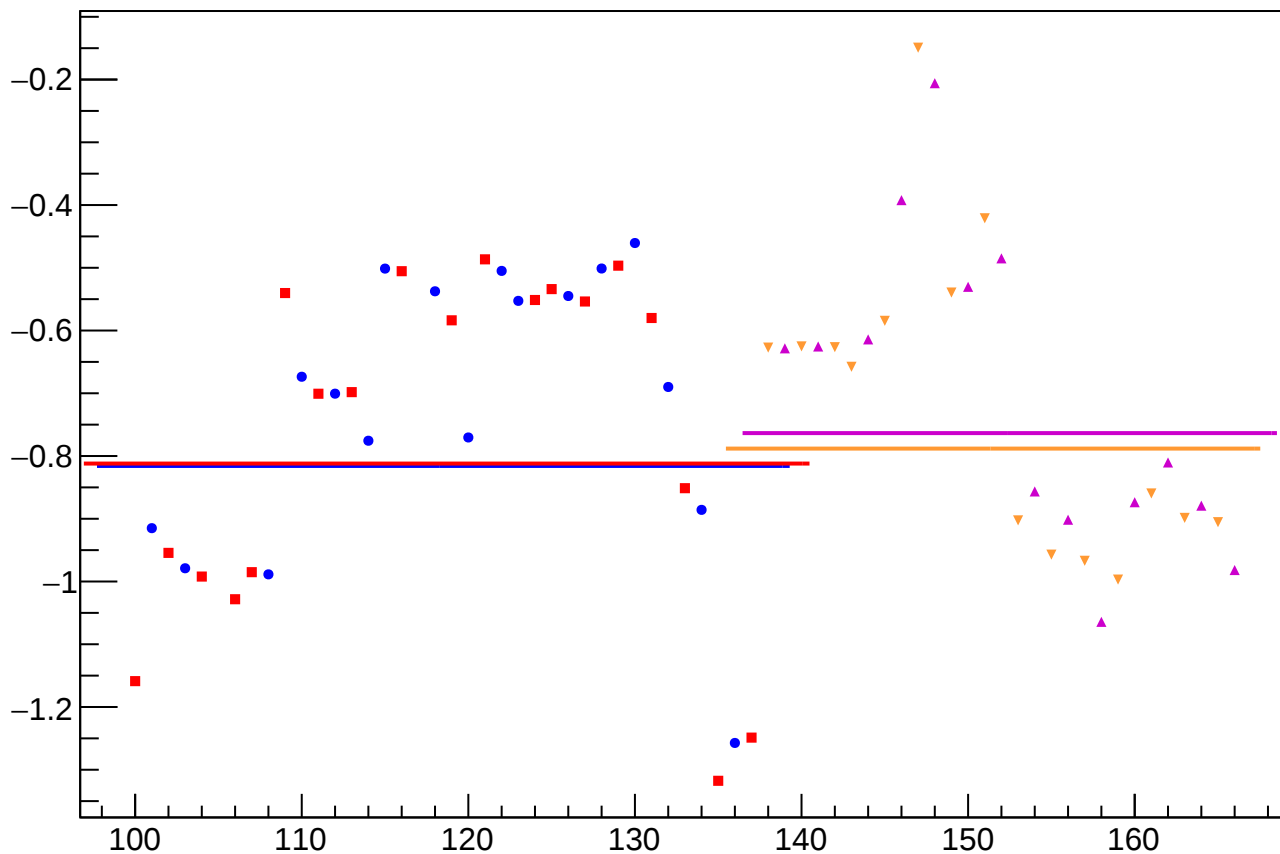
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.005+/-0.000 χ^2/NDF : 1735667.6/30

Out: 0.005+/-0.000 χ^2/NDF : 1558968.1/33

All: 0.005+/-0.000 χ^2/NDF : 3295702.9/64

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: -0.763 $\pm$ 0.000 χ^2 /NDF: 28537265021.3/13

Left: -0.776 $\pm$ 0.000 χ^2 /NDF: 54846783914.8/28

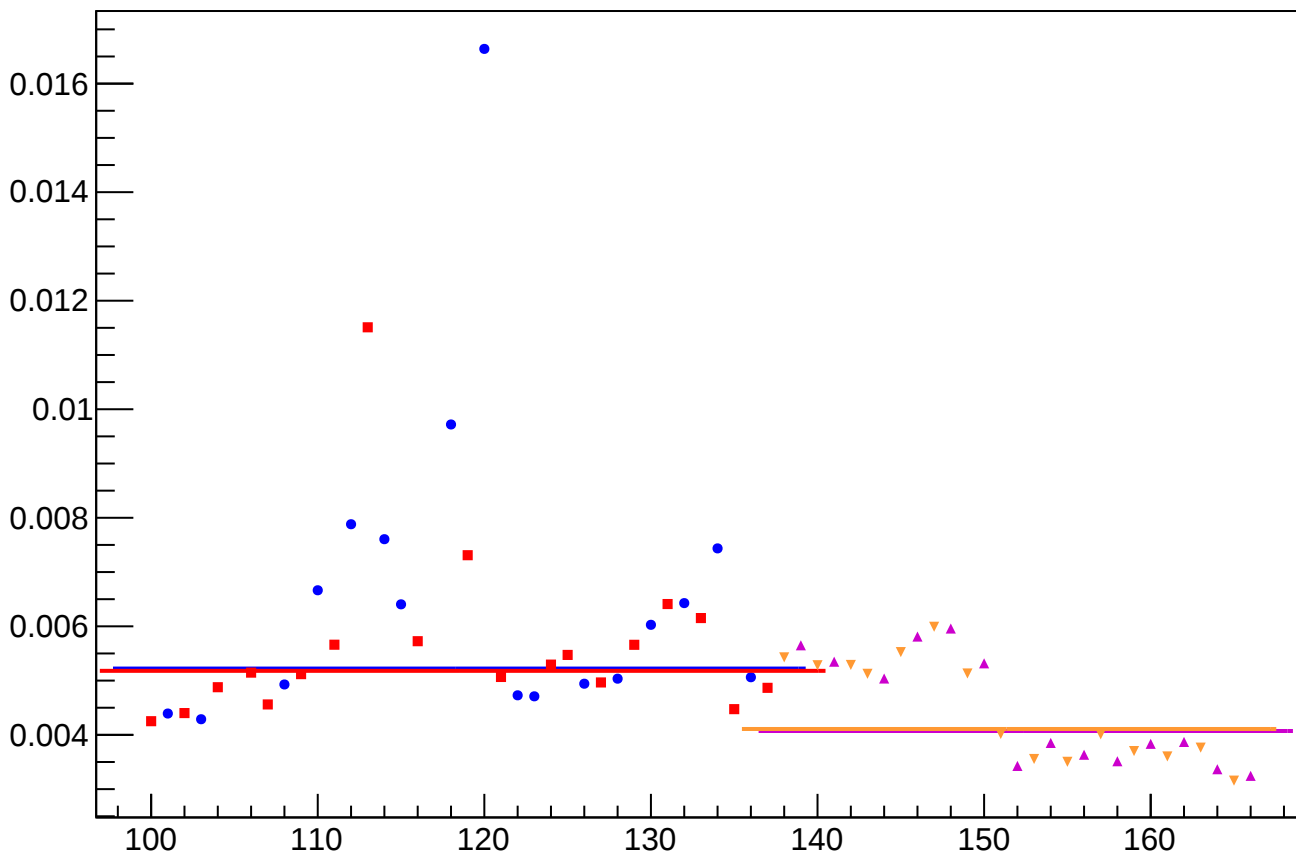
Right: -0.814 $\pm$ 0.000 χ^2 /NDF: 30990213454.0/35

In: -0.777 $\pm$ 0.000 χ^2 /NDF: 43111365844.8/30

Out: -0.795 $\pm$ 0.000 χ^2 /NDF: 43040169975.7/33

All: -0.786 $\pm$ 0.000 χ^2 /NDF: 86280933783.0/70

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 : 859573.4/13

Left: 0.004+/-0.000 χ^2/NDF : 1629356.3/28

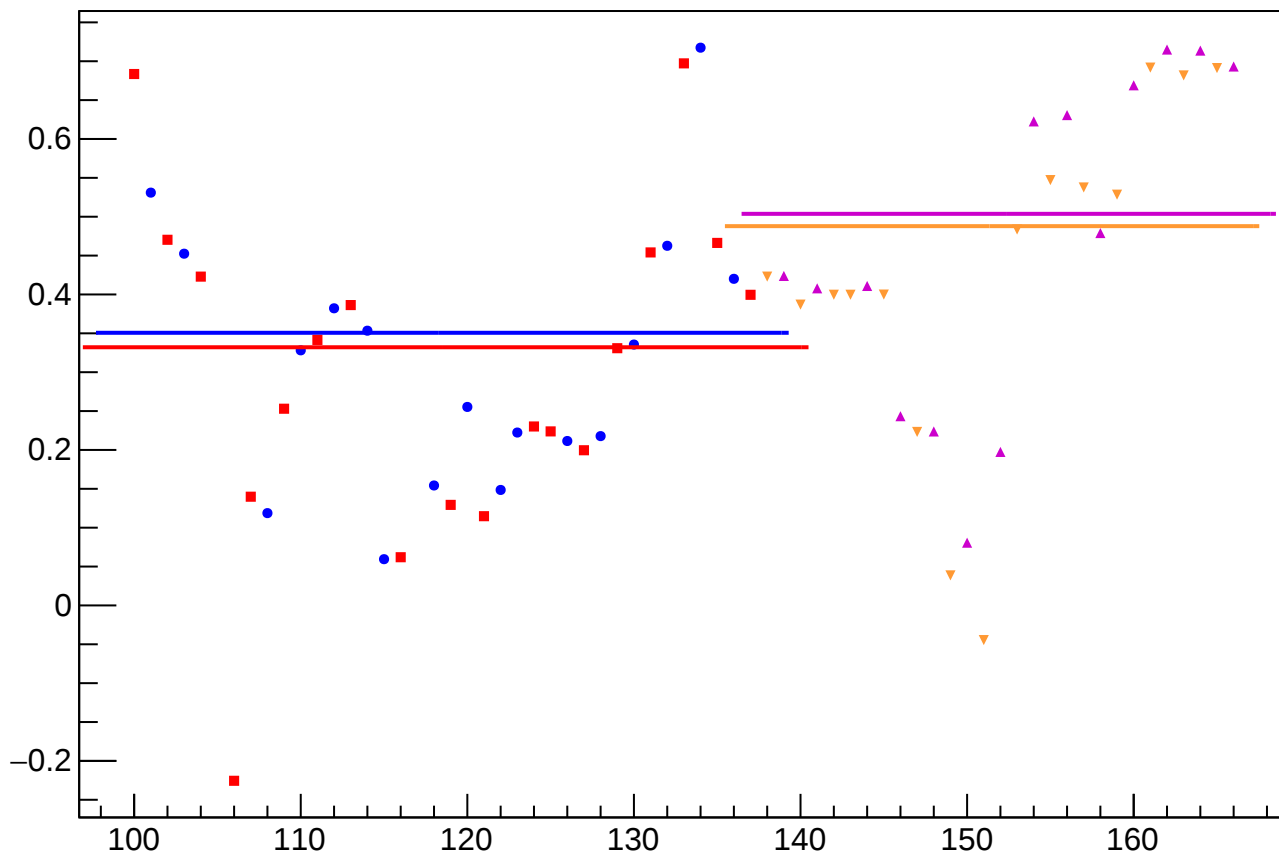
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF : 1911999.1/30

Out: 0.004+/-0.000 χ^2/NDF : 1499683.3/33

All: 0.004+/-0.000 χ^2/NDF : 3413276.8/64

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.496+/-0.000

χ^2/NDF : 67326707532.9/28

Left Out: 0.488+/-0.000

χ^2/NDF : 33821105443.9/14

Right: 0.341+/-0.000

χ^2/NDF : 19270918435.8/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11796213425.9/18

In: 0.460+/-0.000

χ^2/NDF : 46595981852.6/30

Out: 0.440+/-0.000

χ^2/NDF : 52226176960.3/33

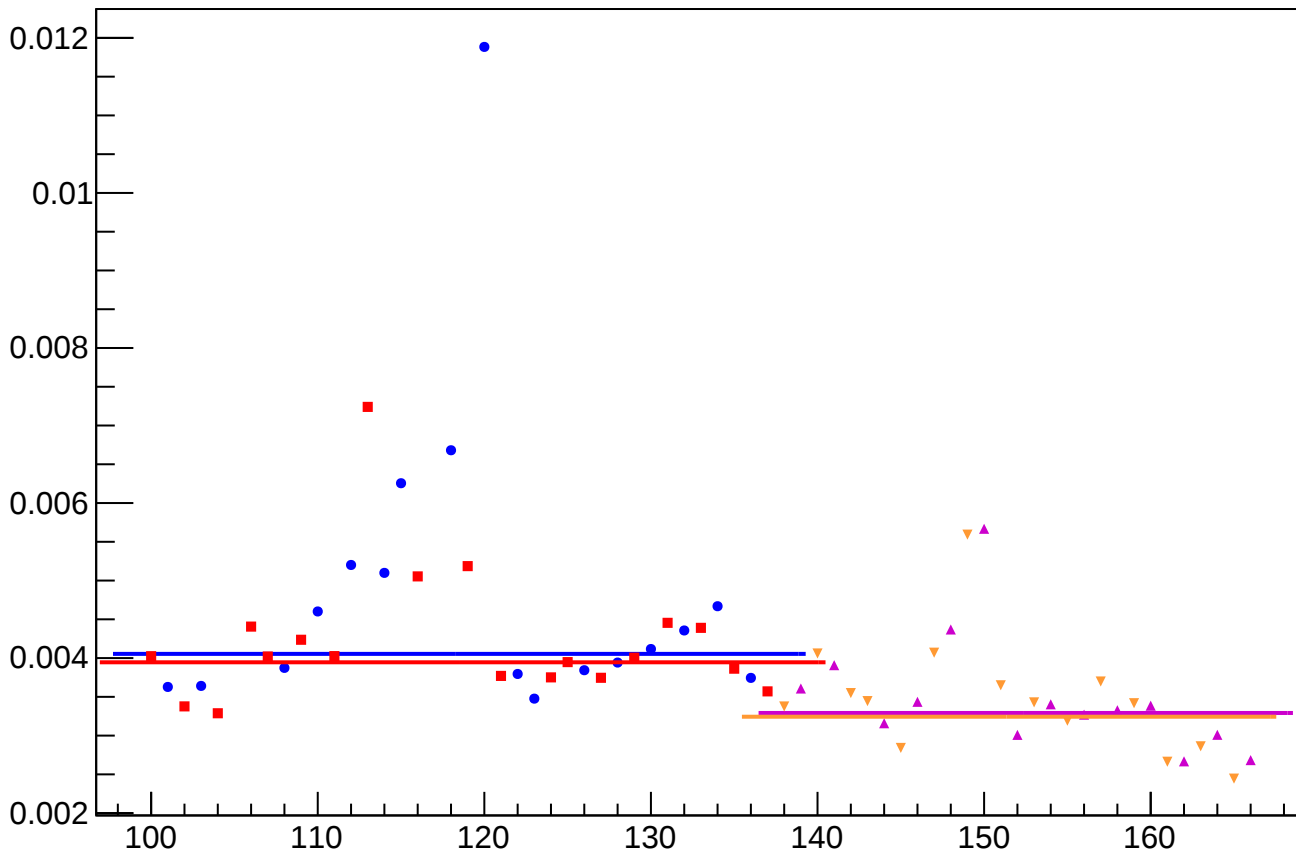
Left In: 0.504+/-0.000

χ^2/NDF : 33395834841.1/13

All: 0.450+/-0.000

χ^2/NDF : 99067049224.3/6

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 : 556792.0/13

Left: 0.003+/-0.000 χ^2/NDF : 1200420.0/28

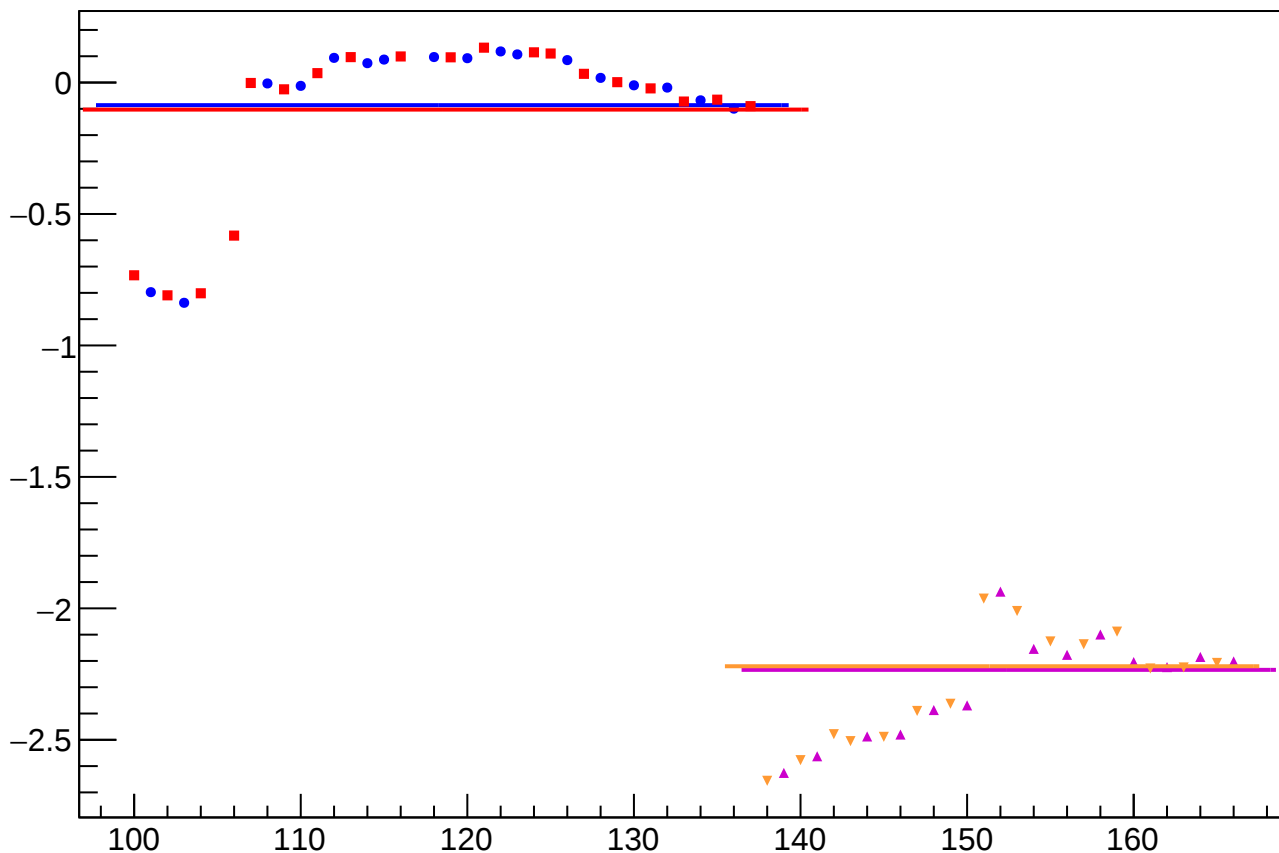
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.004+/-0.000 χ^2/NDF : 1299440.7/30

Out: 0.003+/-0.000 χ^2/NDF : 1170974.2/33

All: 0.003+/-0.000 χ^2/NDF : 2473675.3/64

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: -2.234+/-0.000 χ^2/NDF : 2689196510.5/13

Left: -2.227+/-0.000 χ^2/NDF : 6112018874.4/28

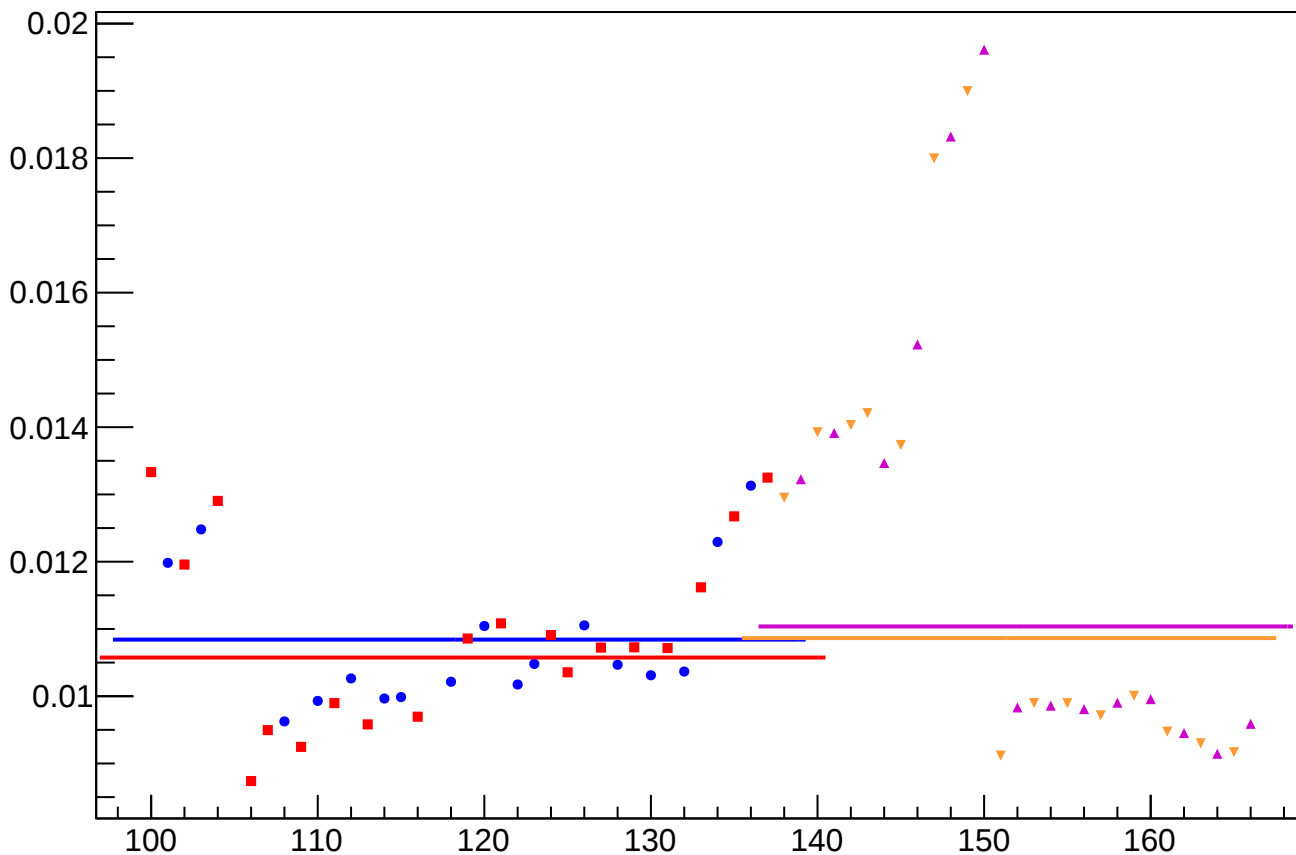
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.370+/-0.000 χ^2/NDF : 163455363755.4/30

Out: -1.344+/-0.000 χ^2/NDF : 173706408115.3/33

All: -1.357+/-0.000 χ^2/NDF : 337213685839.9

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 :1101040.7/13

Left: 0.011+/-0.000 χ^2/NDF : 2175319.5/28

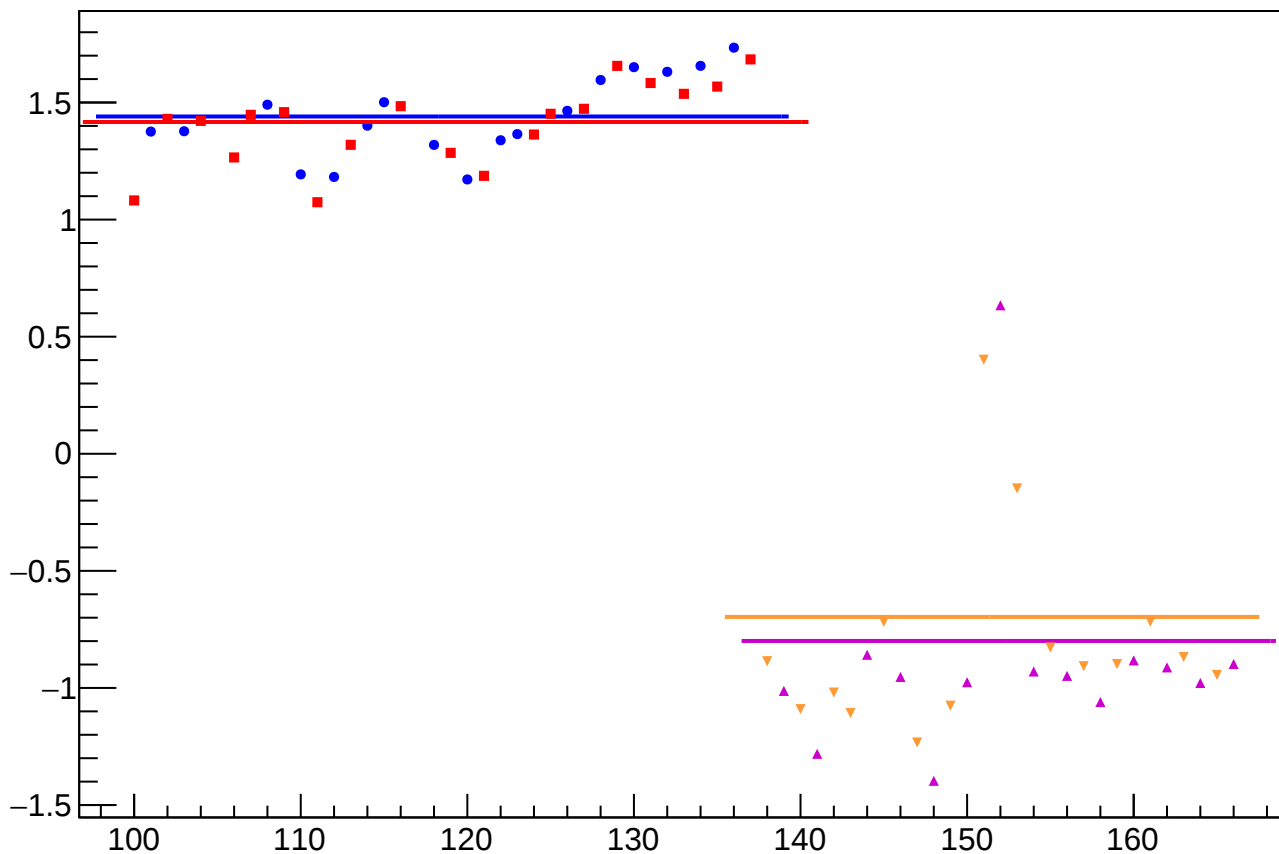
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1227876.1/30

Out: 0.011+/-0.000 χ^2/NDF :1256815.8/33

All: 0.011+/-0.000 χ^2/NDF : 2491364.3/64

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: -0.799+/-0.000 χ^2/NDF : 39580697096.6/13

Left: -0.747+/-0.000 χ^2/NDF : 70698005639.5/28

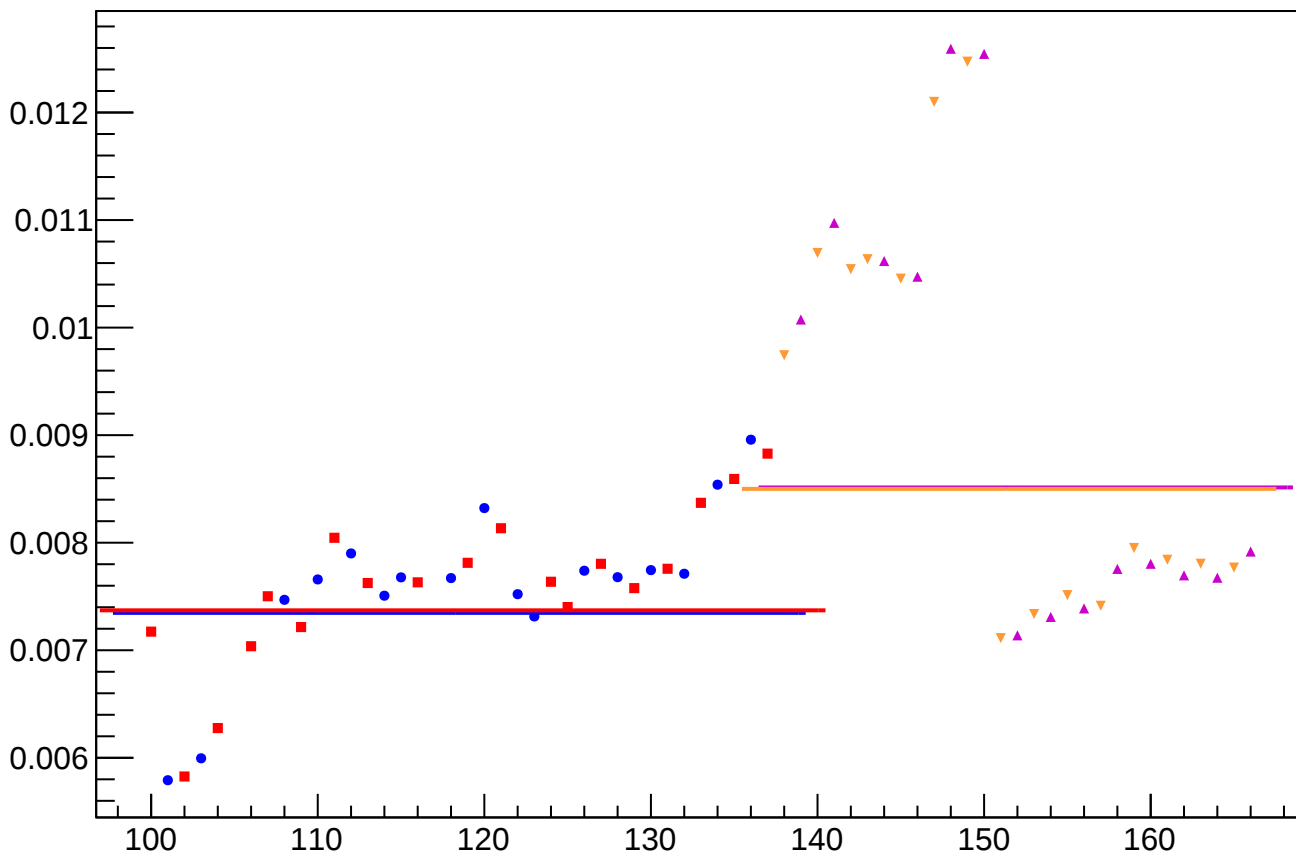
Right: 1.428+/-0.000 χ^2/NDF : 6158088082.8/35

In: 0.230+/-0.000 χ^2/NDF : 373844365676.8/30

Out: 0.290+/-0.000 χ^2/NDF : 340506363016.7/33

All: 0.261+/-0.000 χ^2/NDF : 714841170902.5

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 : 796571.5/13

Left: 0.009+/-0.000 χ^2/NDF : 1527648.7/28

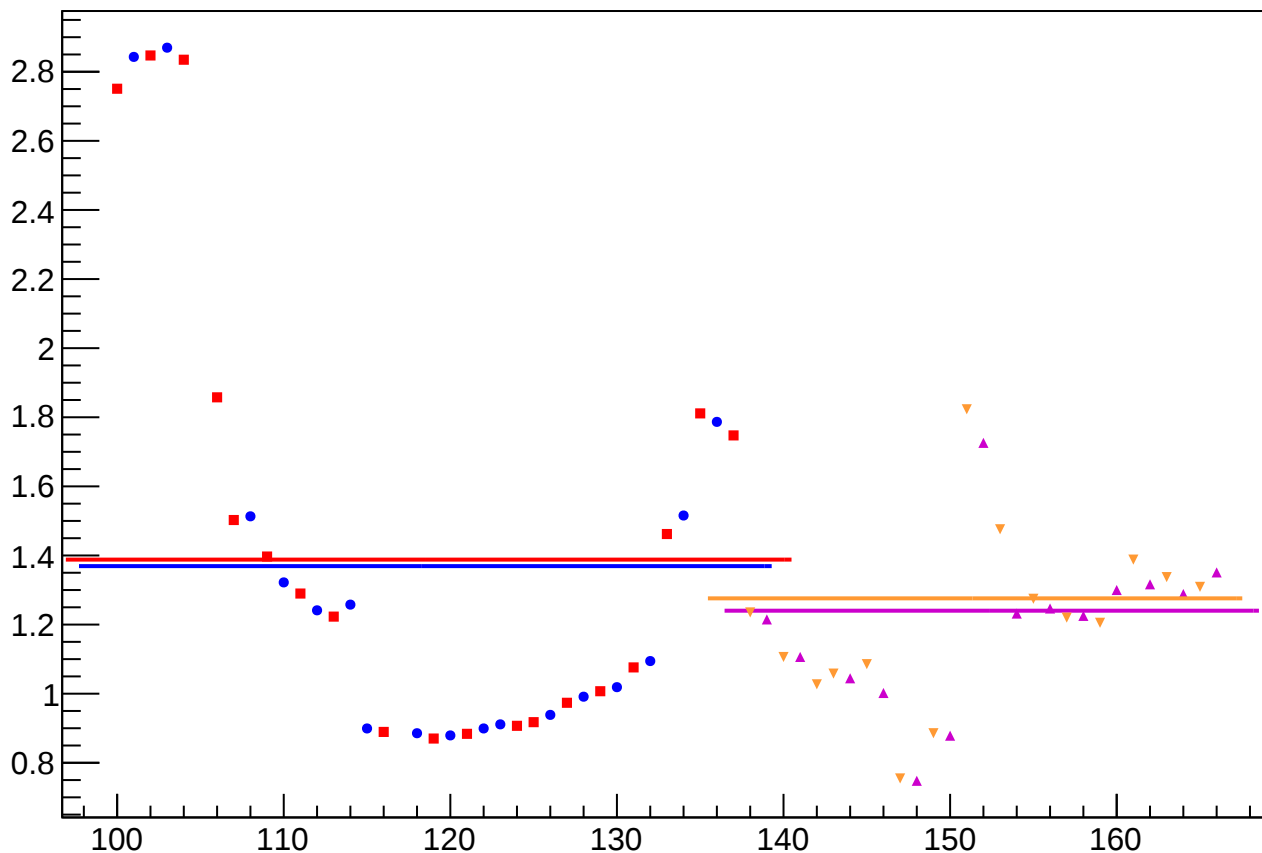
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1204077.9/30

Out: 0.008+/-0.000 χ^2/NDF : 1079317.3/33

All: 0.008+/-0.000 χ^2/NDF : 2283401.3/64

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: 1.240+/-0.000 χ^2/NDF : 7140181559.1/13

Left: 1.259+/-0.000 χ^2/NDF : 16258846027.3/28

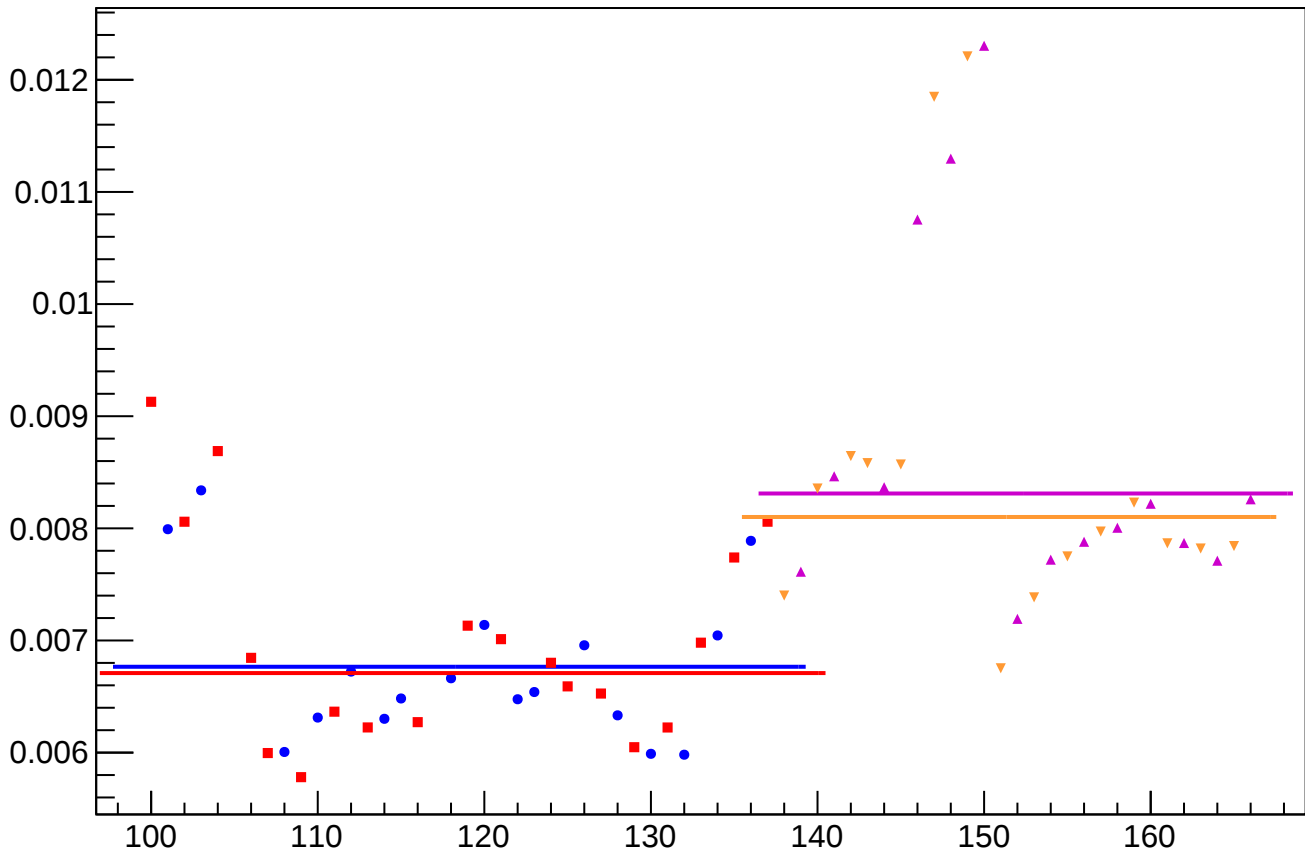
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.304+/-0.000 χ^2/NDF : 62568780351.9/30

Out: 1.331+/-0.000 χ^2/NDF : 59911569228.5/33

All: 1.318+/-0.000 χ^2/NDF : 122596597843.7

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 : 427934.7/13

Left: 0.008+/-0.000 χ^2/NDF : 845843.2/28

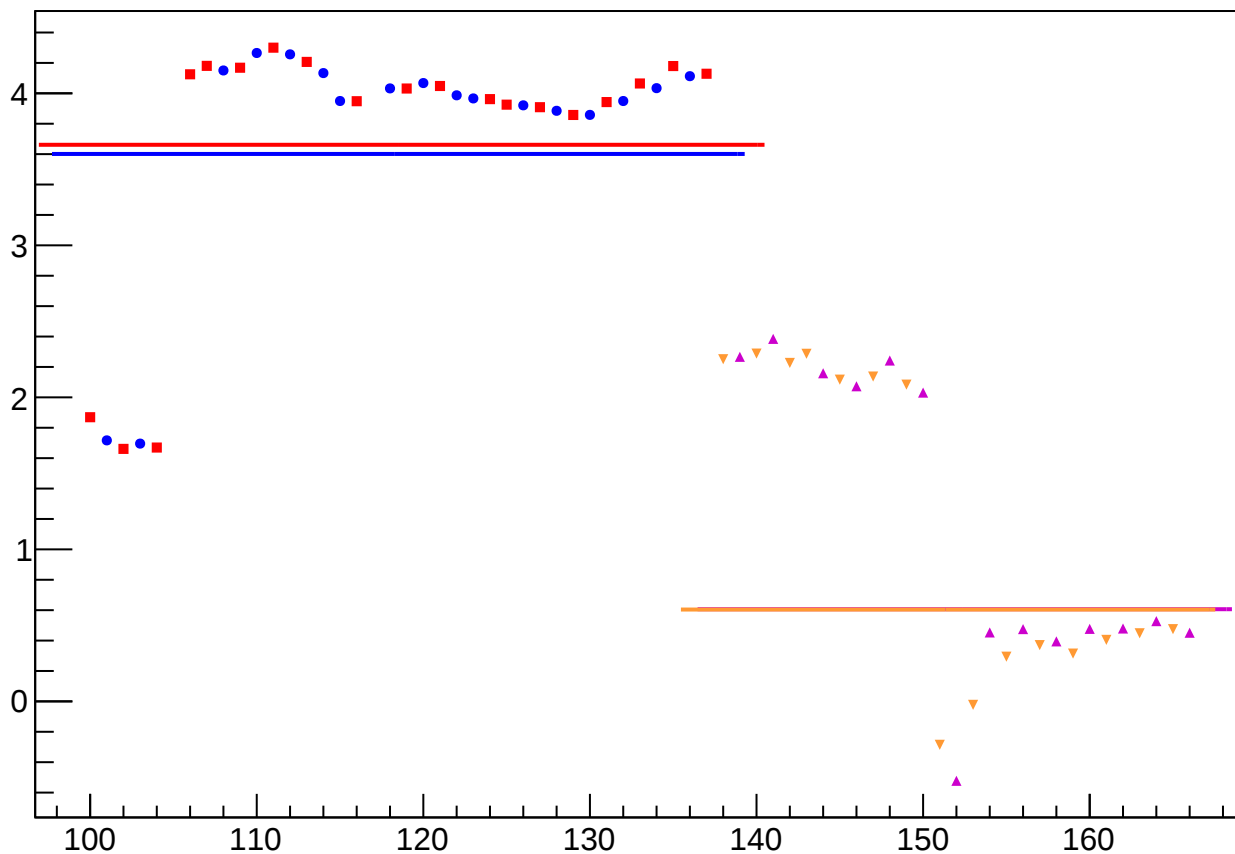
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 938424.7/30

Out: 0.007+/-0.000 χ^2/NDF : 904333.9/33

All: 0.007+/-0.000 χ^2/NDF : 1848459.5/64

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: 0.606+/-0.000 χ^2/NDF : 252855277077.2/13

Left: 0.605+/-0.000 χ^2/NDF : 509211042924.3/28

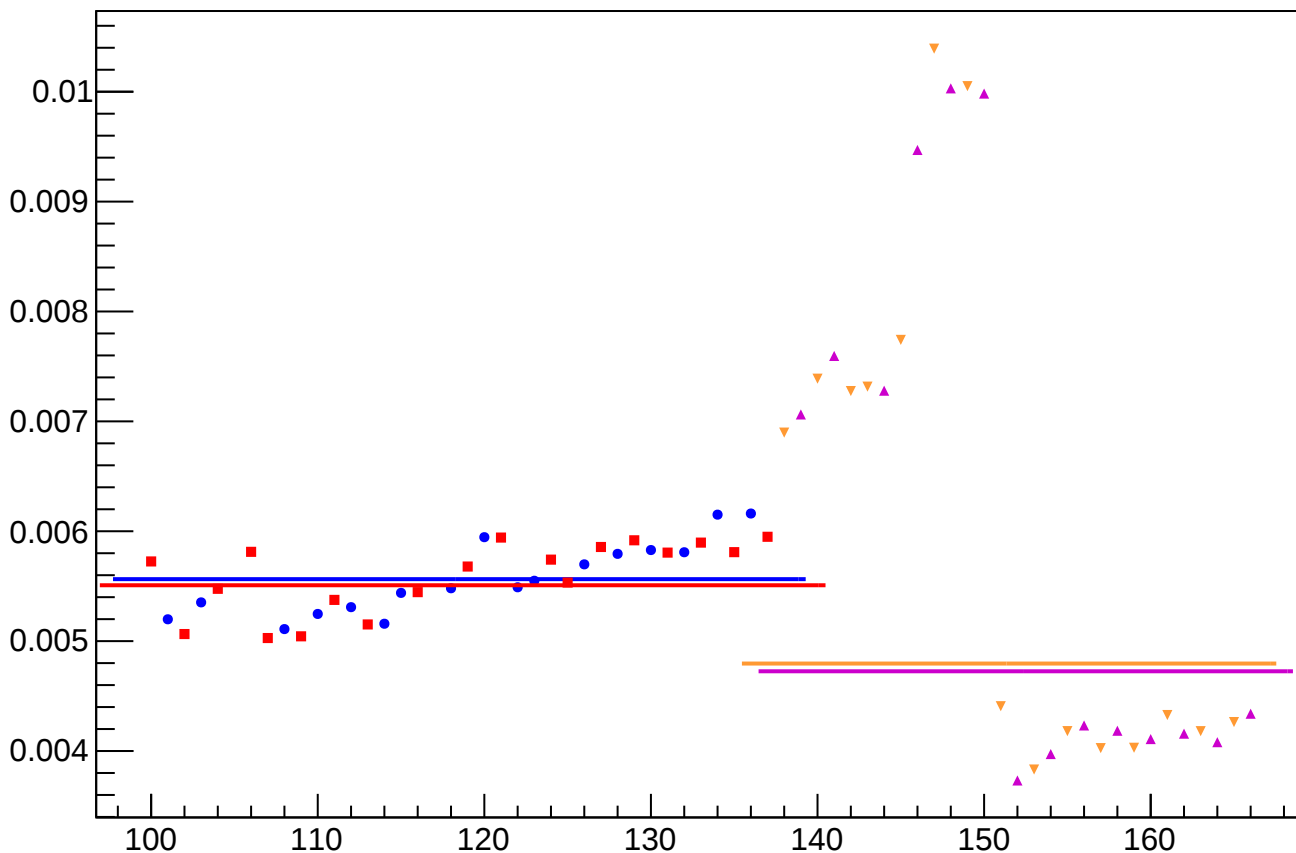
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.625+/-0.000 χ^2/NDF : 1716675518374.0/30

Out: 1.690+/-0.000 χ^2/NDF : 1830586845774.8/33

All: 1.658+/-0.000 χ^2/NDF : 3548623053989.

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 :2101843.9/13

Left: 0.005+/-0.000 χ^2/NDF : 4000241.2/28

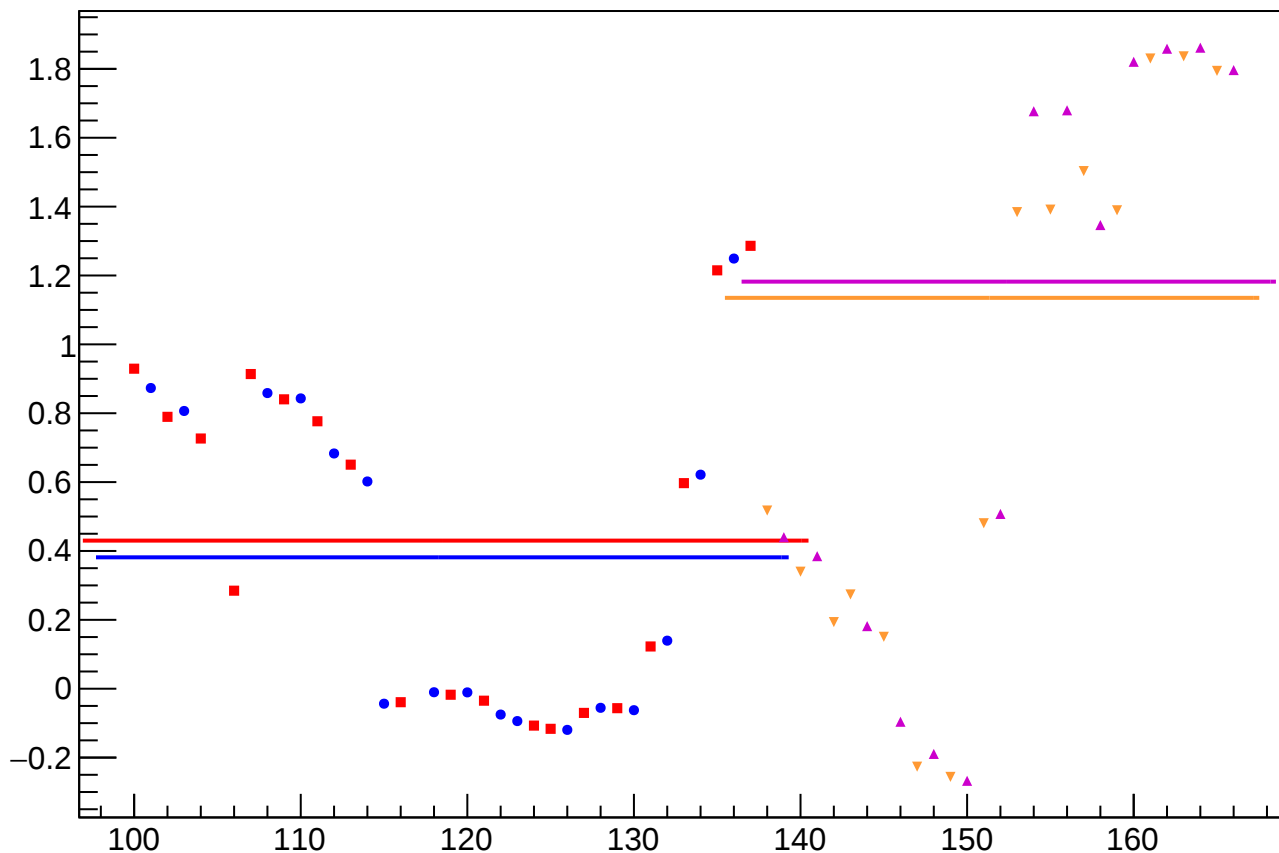
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2349800.7/30

Out: 0.005+/-0.000 χ^2/NDF :2099068.0/33

All: 0.005+/-0.000 χ^2/NDF : 4449808.2/64

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 ± 0.000 $\chi^2/\text{NDF}: 7124759123.1/16$

Left Out: 1.135 ± 0.000 $\chi^2/\text{NDF}: 34775663070.6/14$

Right Out: 0.430 ± 0.000 $\chi^2/\text{NDF}: 6676199135.9/18$

Left In: 1.182 ± 0.000 $\chi^2/\text{NDF}: 41829327658.4/13$

Left: 1.159 ± 0.000 $\chi^2/\text{NDF}: 76688142766.2/28$

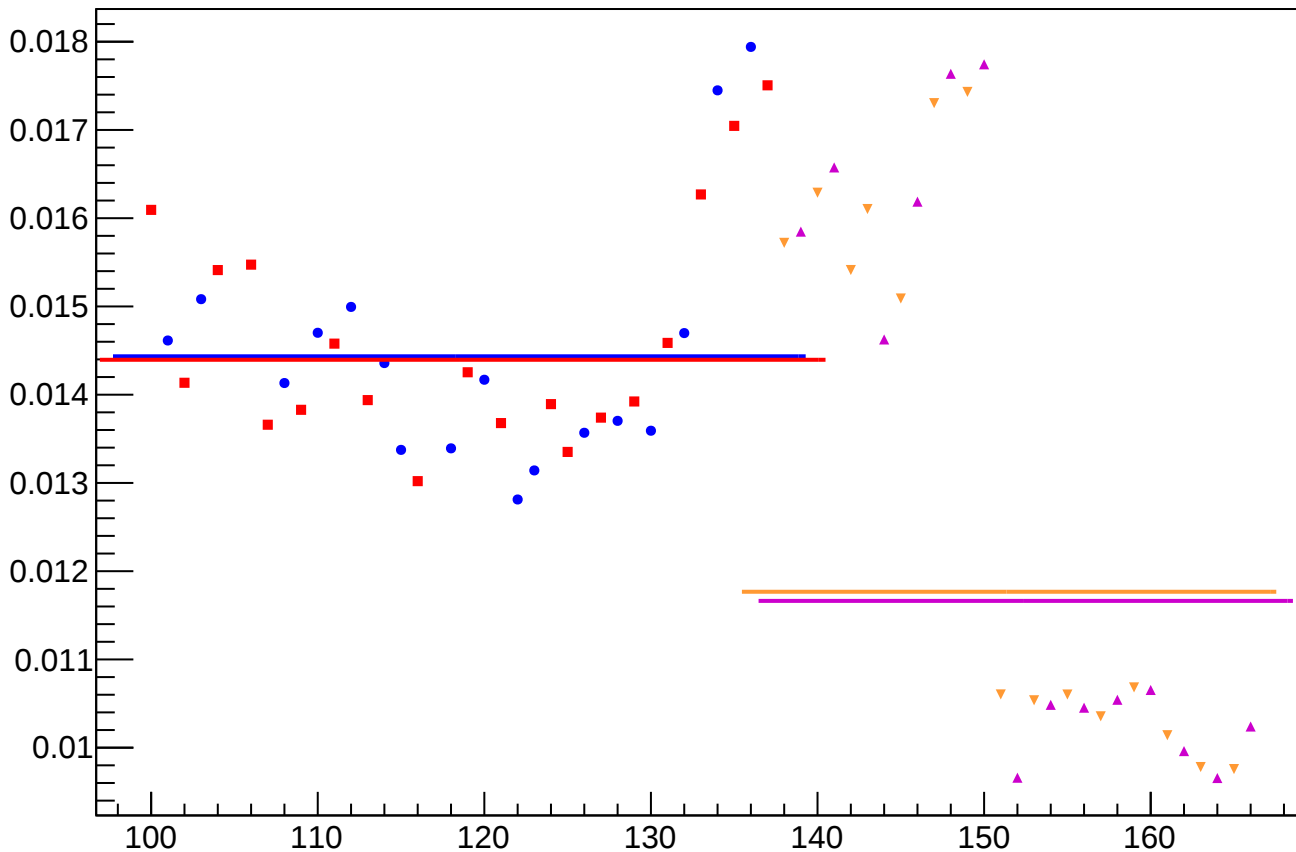
Right: 0.406 ± 0.000 $\chi^2/\text{NDF}: 13839390791.2/35$

In: 0.944 ± 0.000 $\chi^2/\text{NDF}: 63259426843.5/30$

Out: 0.918 ± 0.000 $\chi^2/\text{NDF}: 52973444098.5/33$

All: 0.931 ± 0.000 $\chi^2/\text{NDF}: 116268840747.3$

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 :1078502.1/13

Left: 0.012+/-0.000 χ^2/NDF : 2087054.6/28

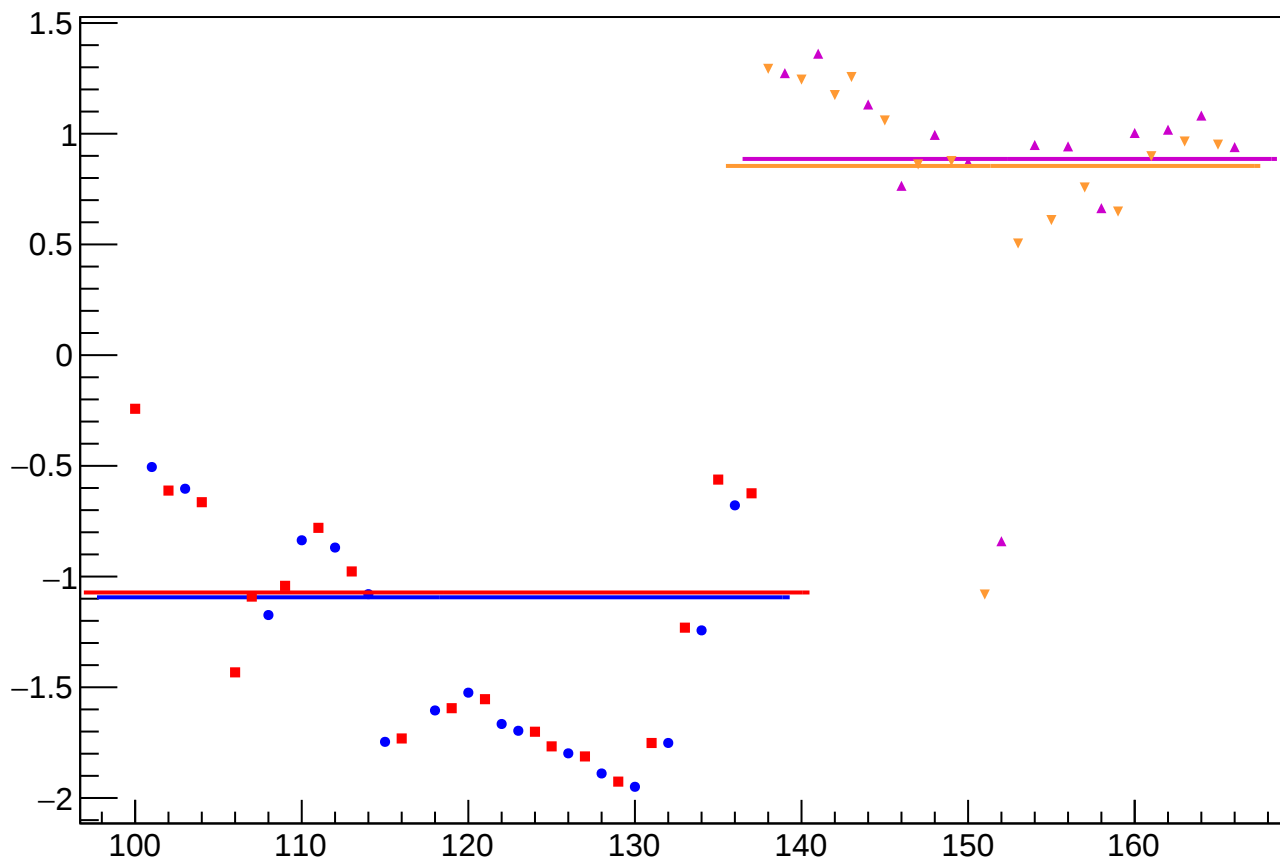
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1531629.7/30

Out: 0.013+/-0.000 χ^2/NDF :1402646.7/33

All: 0.013+/-0.000 χ^2/NDF : 2935111.6/64

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: 0.886+/-0.000 χ^2/NDF : 145707413233.9/13

Left: 0.870+/-0.000 χ^2/NDF : 270532203644.6/28

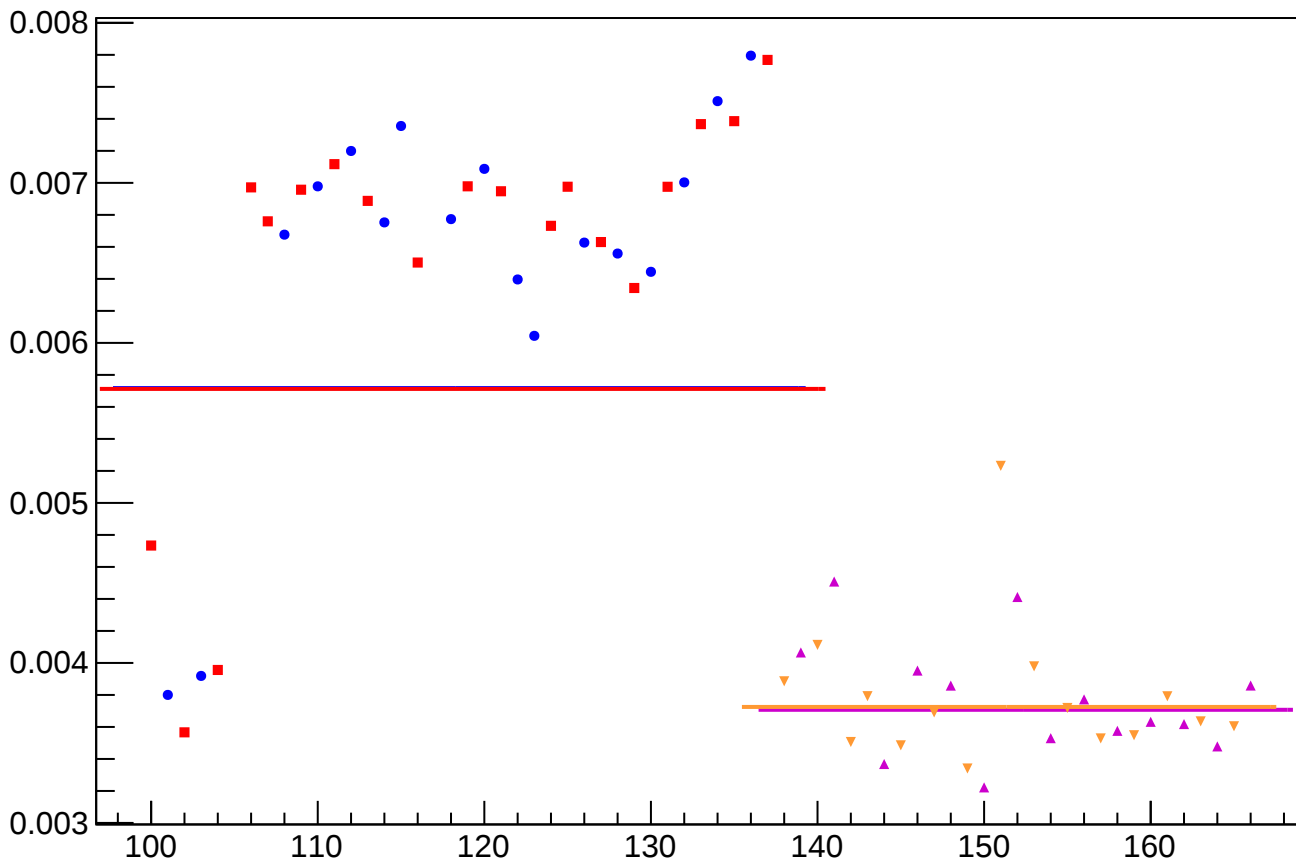
Right: -1.083+/-0.000 χ^2/NDF : 102900070258.1/35

In: 0.481+/-0.000 χ^2/NDF : 767809405536.6/30

Out: 0.451+/-0.000 χ^2/NDF : 725418205169.1/33

All: 0.466+/-0.000 χ^2/NDF : 1493616972786.

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 :170411.8/13

Left: 0.004+/-0.000 χ^2/NDF : 331474.3/28

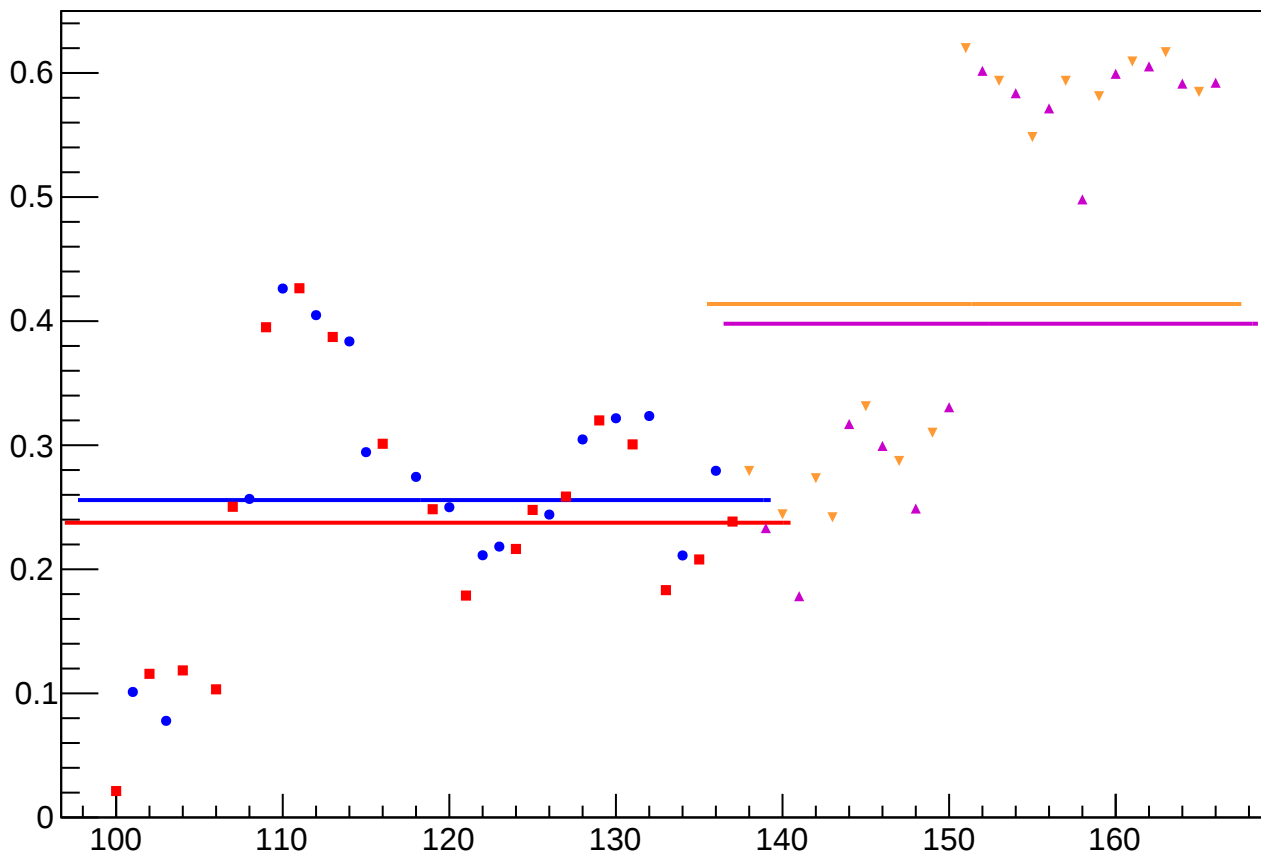
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2175735.4/30

Out: 0.004+/-0.000 χ^2/NDF :2264220.1/33

All: 0.004+/-0.000 χ^2/NDF : 4440400.9/64

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: 0.398+/-0.000 χ^2/NDF : 71964795371.6/13

Left: 0.406+/-0.000 χ^2/NDF : 147581744201.0/28

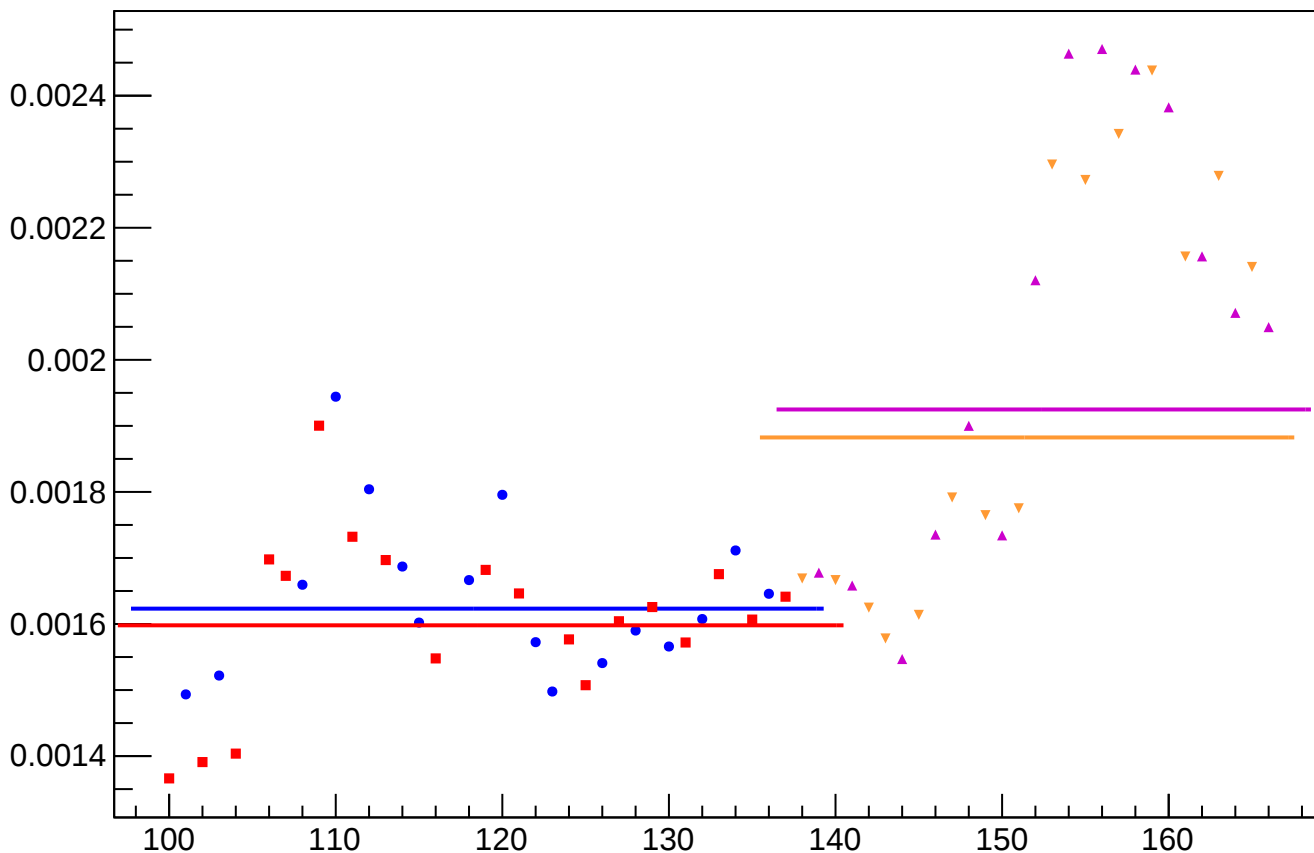
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.332+/-0.000 χ^2/NDF : 119685090866.8/30

Out: 0.330+/-0.000 χ^2/NDF : 145844668225.9/33

All: 0.331+/-0.000 χ^2/NDF : 265534347824.9

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 :539343.9/13

Left: 0.002+/-0.000 χ^2/NDF : 1052683.7/28

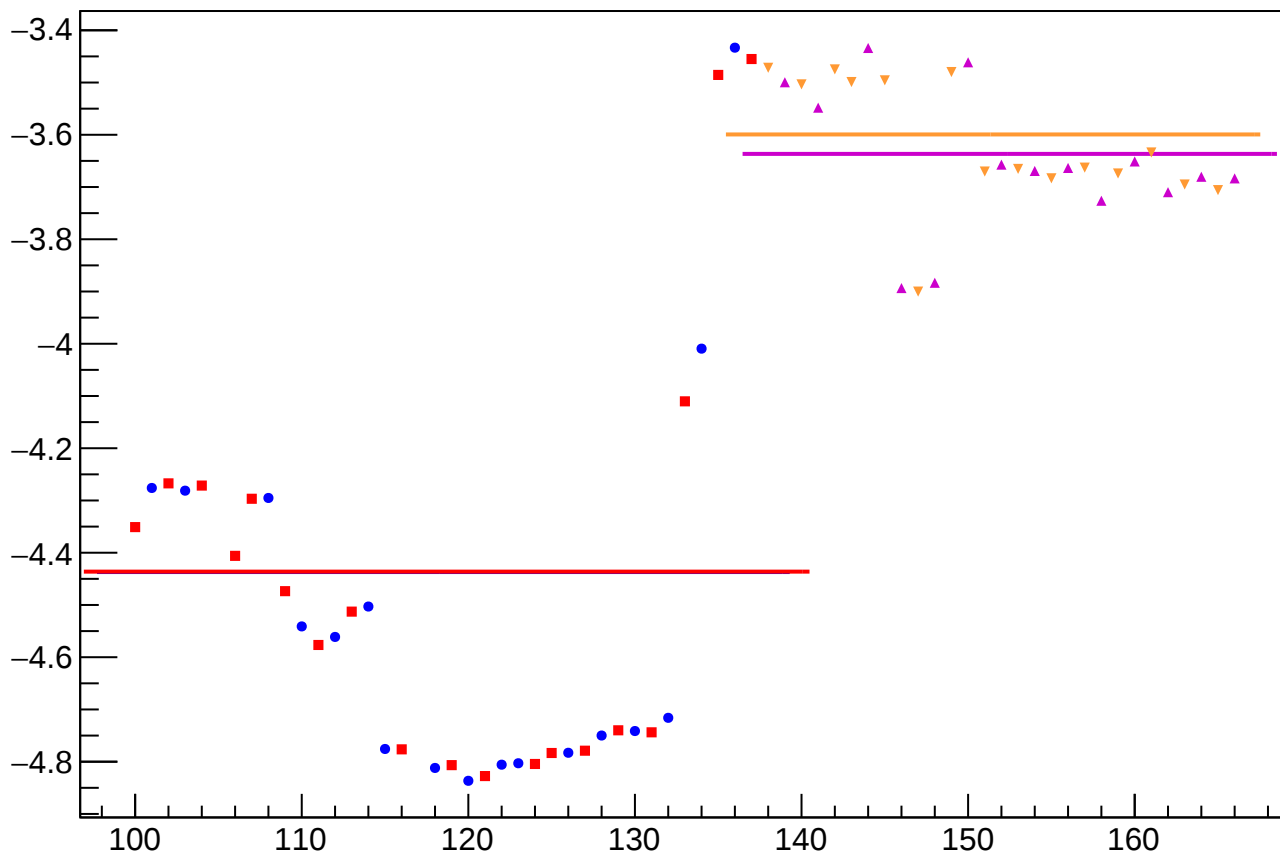
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF :829164.1/30

Out: 0.002+/-0.000 χ^2/NDF :830825.4/33

All: 0.002+/-0.000 χ^2/NDF : 1667267.2/64

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: -3.637 $\pm$ 0.000 χ^2/NDF : 43006985416.2/13

Left: -3.618 $\pm$ 0.000 χ^2/NDF : 76974035531.5/28

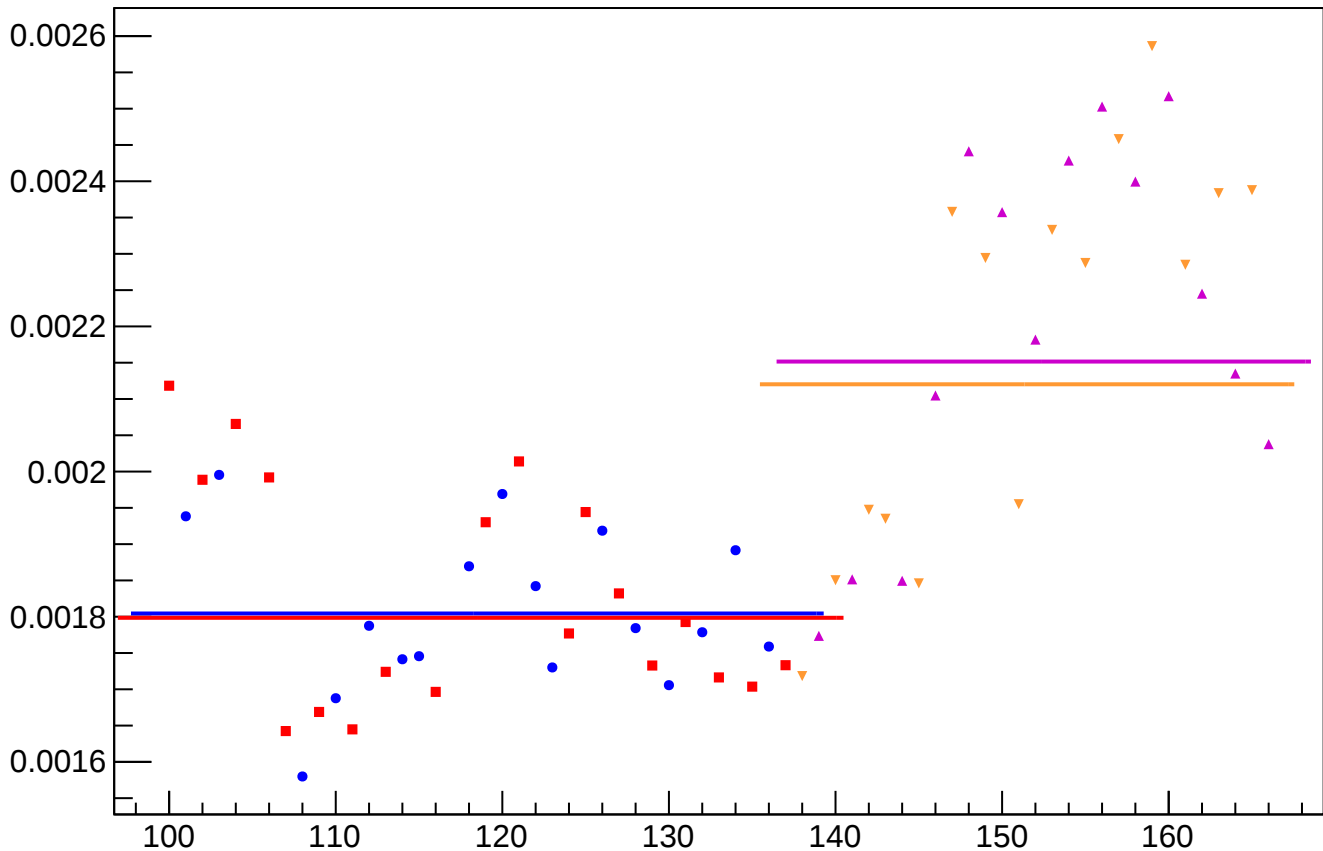
Right: -4.437 $\pm$ 0.000 χ^2/NDF : 717996921060.6/35

In: -4.012 $\pm$ 0.000 χ^2/NDF : 1115799484007.6/30

Out: -3.995 $\pm$ 0.000 χ^2/NDF : 1141018582370.2/33

All: -4.003 $\pm$ 0.000 χ^2/NDF : 2257410280475

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 :293223.8/13

Left: 0.002+/-0.000 χ^2/NDF : 633527.9/28

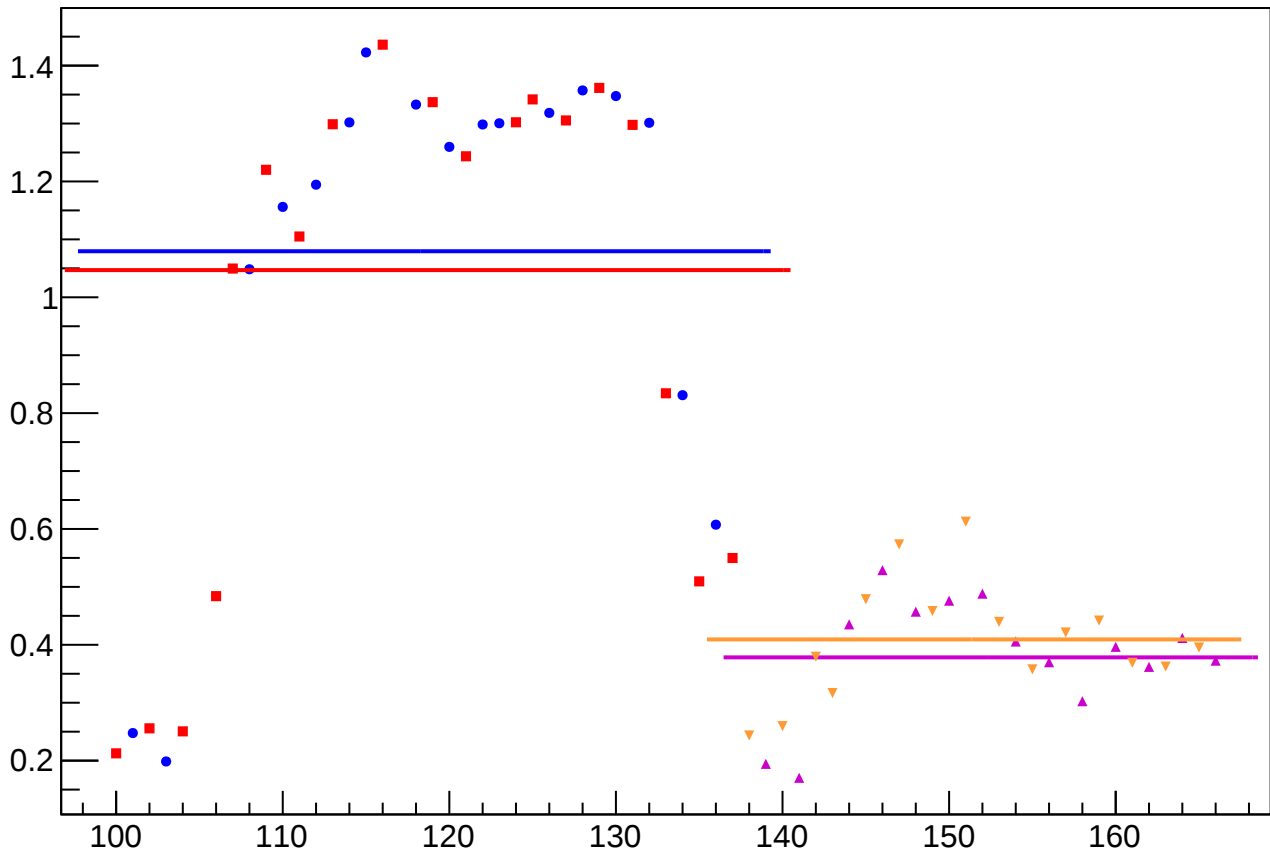
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :598144.4/30

Out: 0.002+/-0.000 χ^2/NDF :650692.2/33

All: 0.002+/-0.000 χ^2/NDF : 1250732.3/64

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: 0.378 $\pm$ 0.000 χ^2 /NDF: 1044926879.2/13

Left: 0.394 $\pm$ 0.000 χ^2 /NDF: 2317873988.1/28

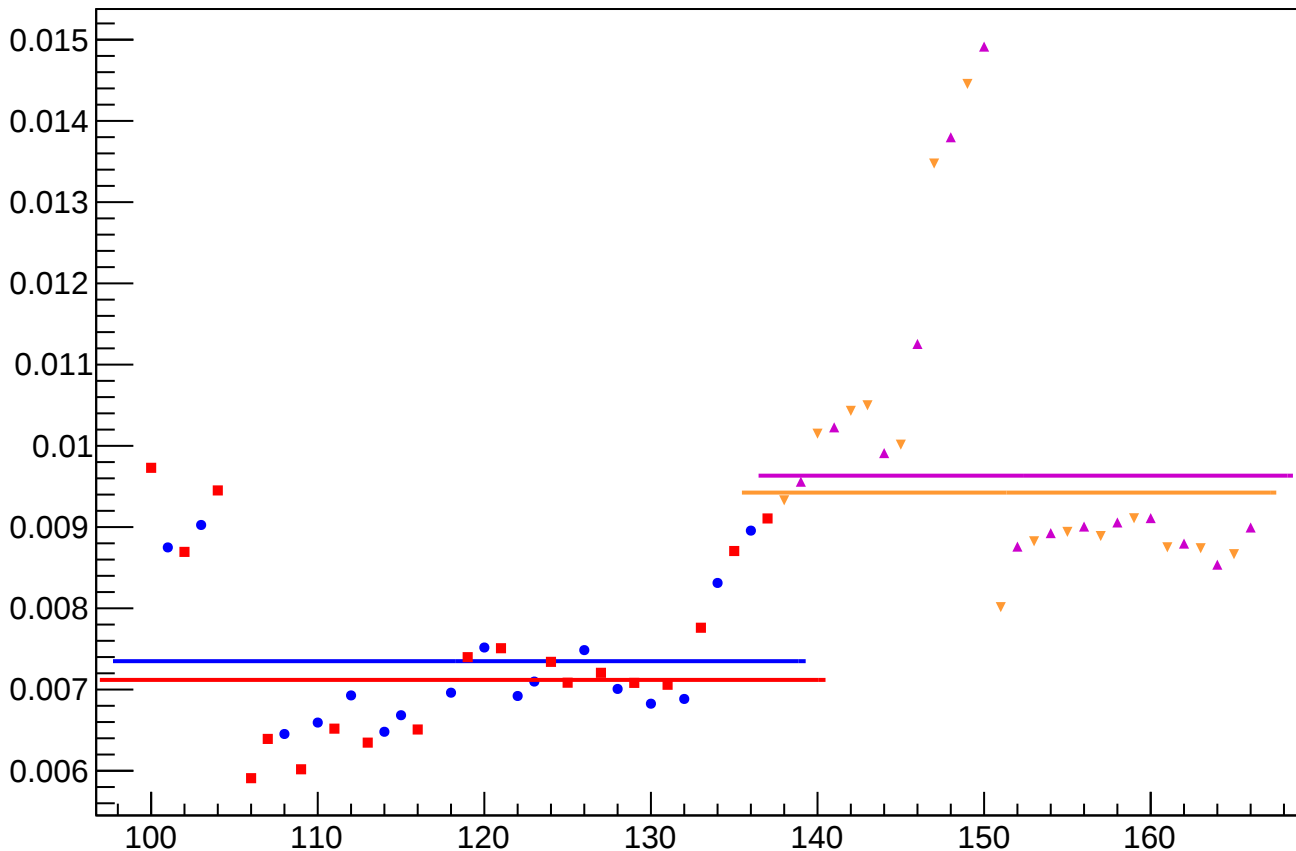
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.742 $\pm$ 0.000 χ^2 /NDF: 47543776654.1/30

Out: 0.748 $\pm$ 0.000 χ^2 /NDF: 47143599352.0/33

All: 0.745 $\pm$ 0.000 χ^2 /NDF: 94692056425.4/66

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 : 487253.9/13

Left: 0.010+/-0.000 χ^2/NDF : 957780.4/28

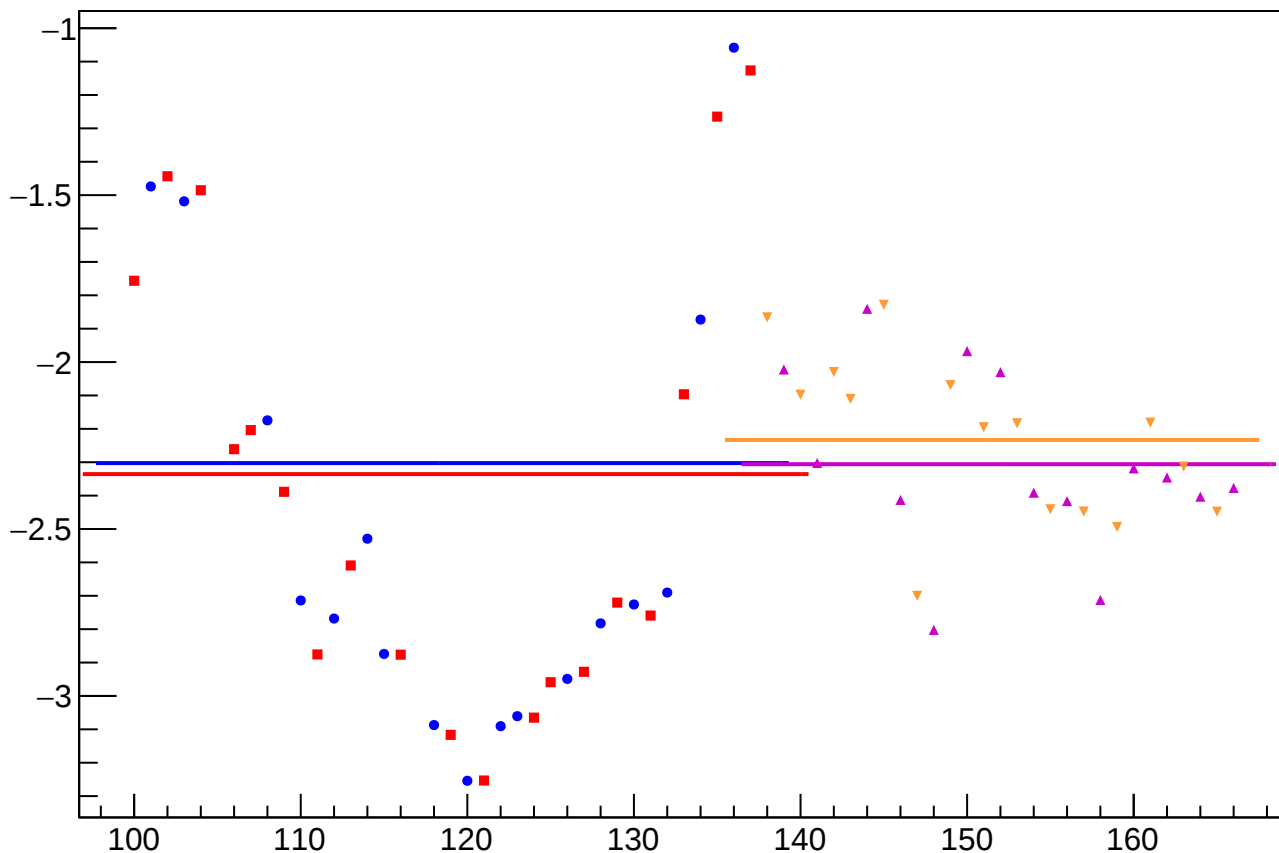
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.008+/-0.000 χ^2/NDF : 1282473.0/30

Out: 0.008+/-0.000 χ^2/NDF : 1410905.6/33

All: 0.008+/-0.000 χ^2/NDF : 2708730.5/64

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303 ± 0.000 $\chi^2/\text{NDF}: 73755914805.8/16$

Left Out: -2.233 ± 0.000 $\chi^2/\text{NDF}: 7359959696.8/14$

Right Out: -2.336 ± 0.000 $\chi^2/\text{NDF}: 64499162456.4/18$

Left In: -2.306 ± 0.000 $\chi^2/\text{NDF}: 8552638812.5/13$

Left: -2.269 ± 0.000 $\chi^2/\text{NDF}: 16290825261.7/28$

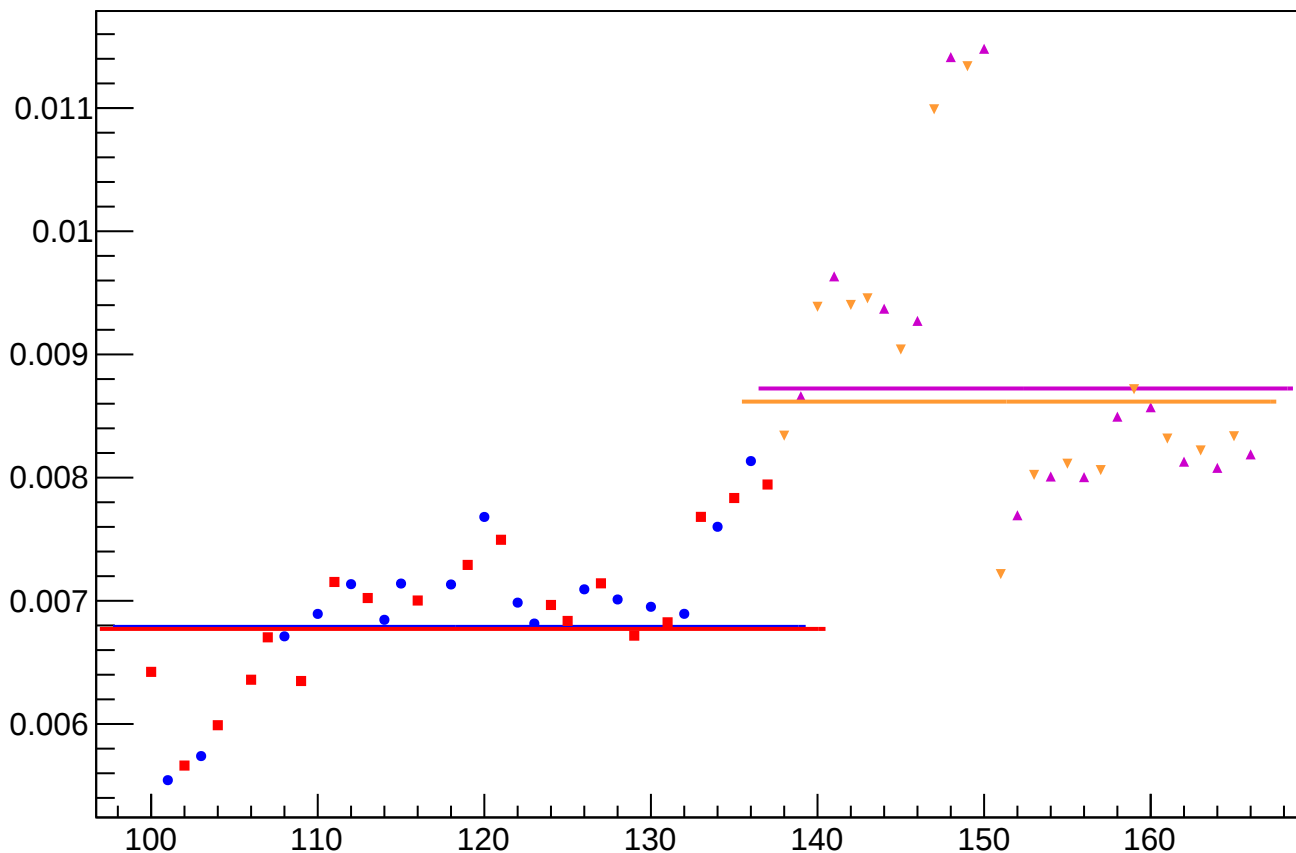
Right: -2.320 ± 0.000 $\chi^2/\text{NDF}: 138336112561.8/35$

In: -2.304 ± 0.000 $\chi^2/\text{NDF}: 82309309112.6/30$

Out: -2.286 ± 0.000 $\chi^2/\text{NDF}: 72646396975.5/33$

All: -2.295 ± 0.000 $\chi^2/\text{NDF}: 155006220899.0$

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 :295225.5/13

Left: 0.009+/-0.000 χ^2/NDF : 583039.8/28

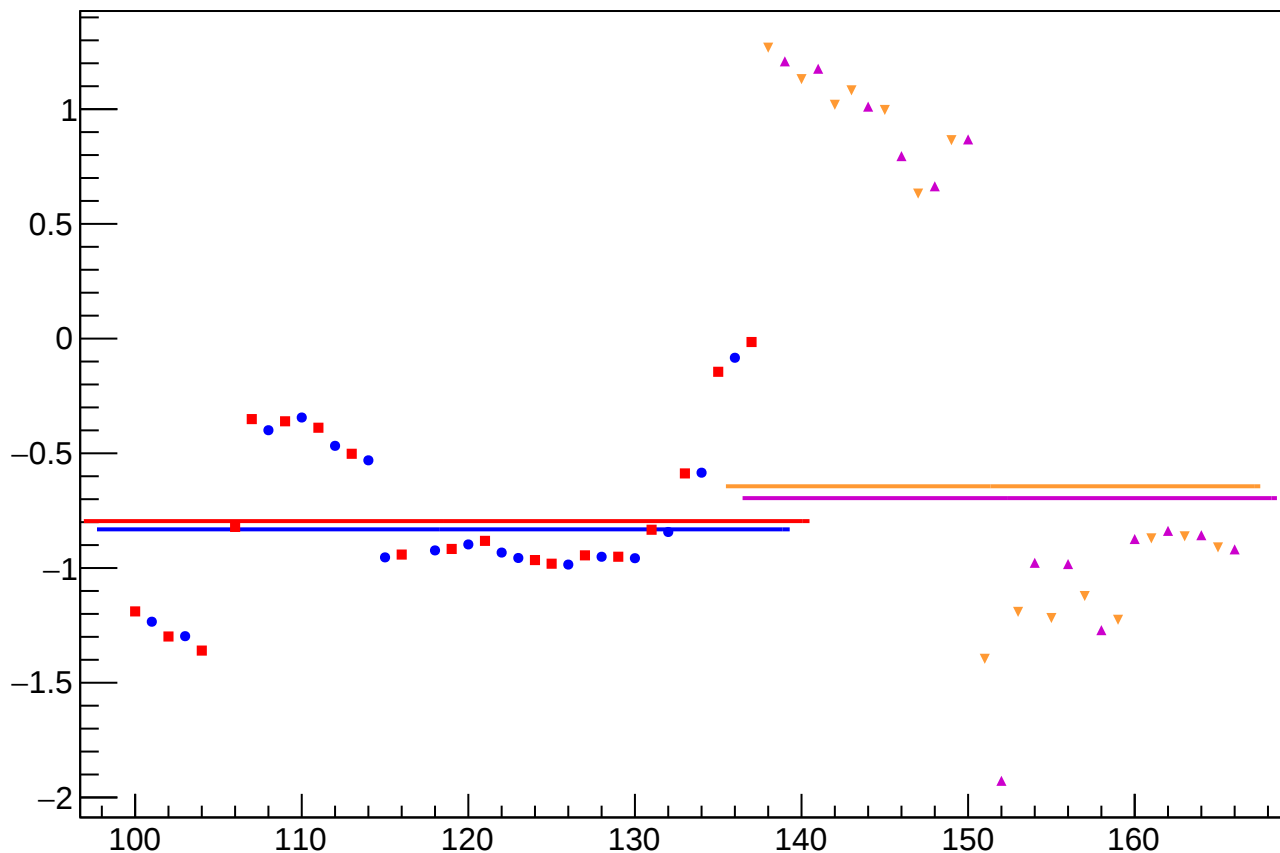
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF :992834.4/30

Out: 0.008+/-0.000 χ^2/NDF :921327.3/33

All: 0.008+/-0.000 χ^2/NDF : 1915591.9/64

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.670+/-0.000

χ^2/NDF : 229756498587.3/28

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: -0.734+/-0.000

χ^2/NDF : 126021673126.1/30

Out: -0.688+/-0.000

χ^2/NDF : 119777259432.2/33

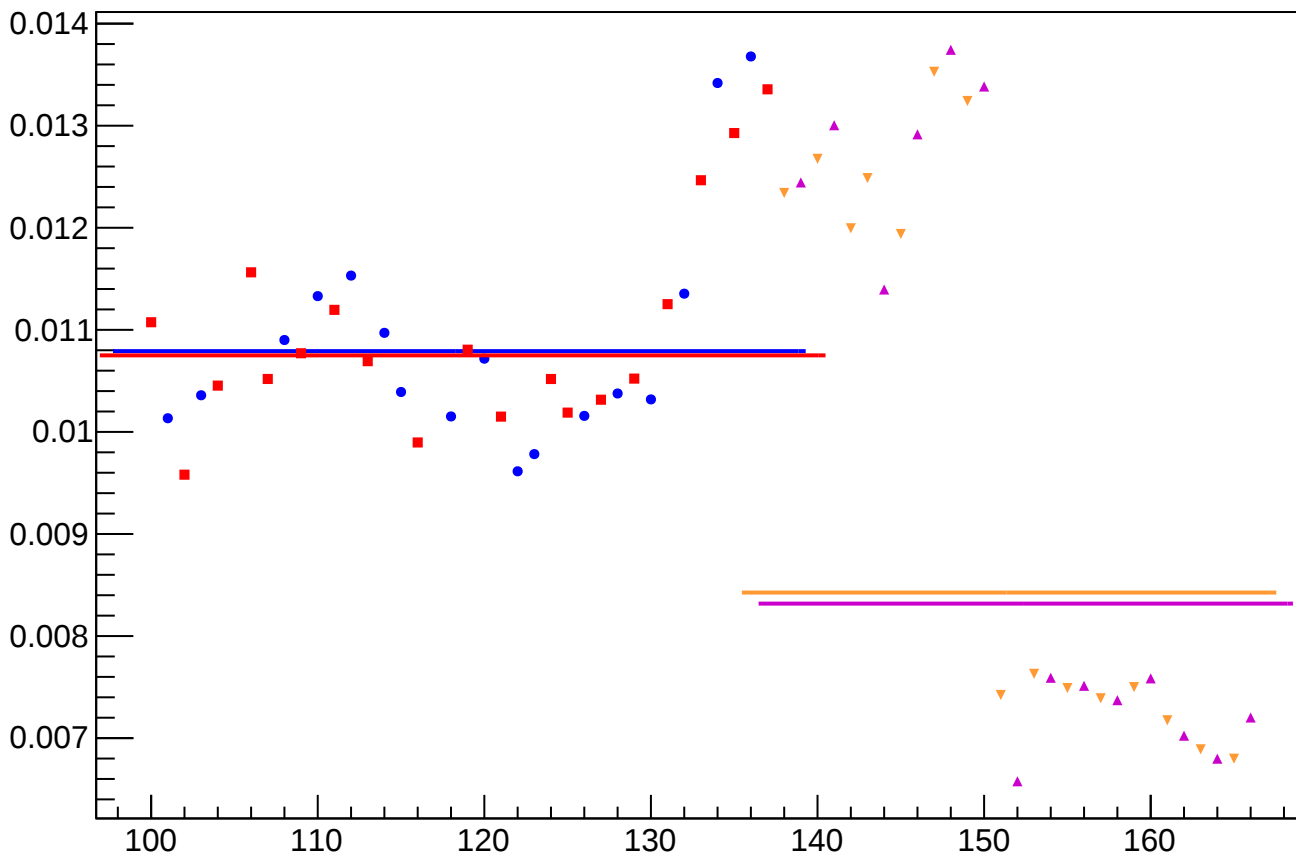
Left In: -0.695+/-0.000

χ^2/NDF : 118580154410.1/13

All: -0.711+/-0.000

χ^2/NDF : 246006344745.6

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 :1490954.3/13

Left: 0.008+/-0.000 χ^2/NDF : 2889306.6/28

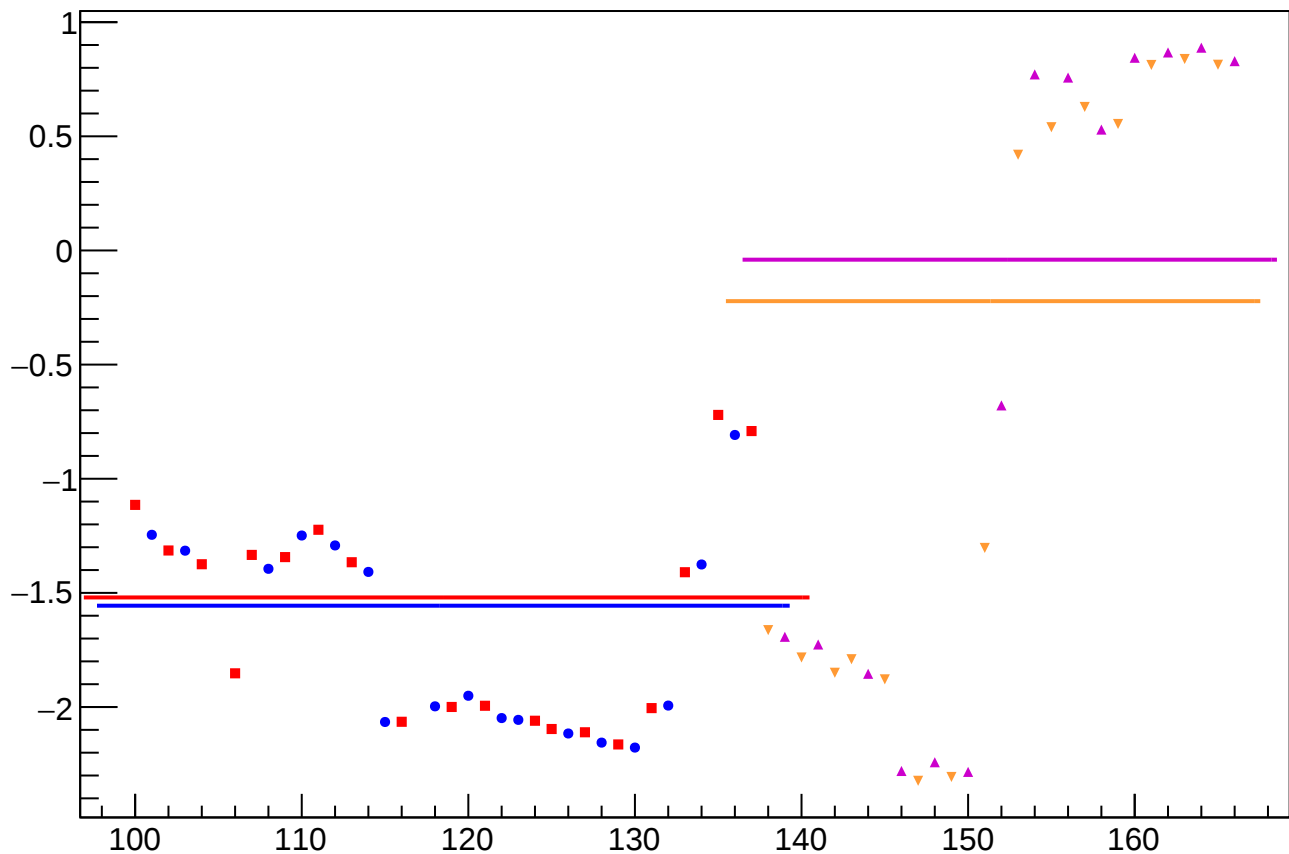
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2111731.4/30

Out: 0.009+/-0.000 χ^2/NDF :1941311.8/33

All: 0.009+/-0.000 χ^2/NDF : 4054783.1/64

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: -0.040+/-0.000 χ^2/NDF : 1874634787867.3/13

Left: -0.131+/-0.000 χ^2/NDF : 3787632748677.7/28

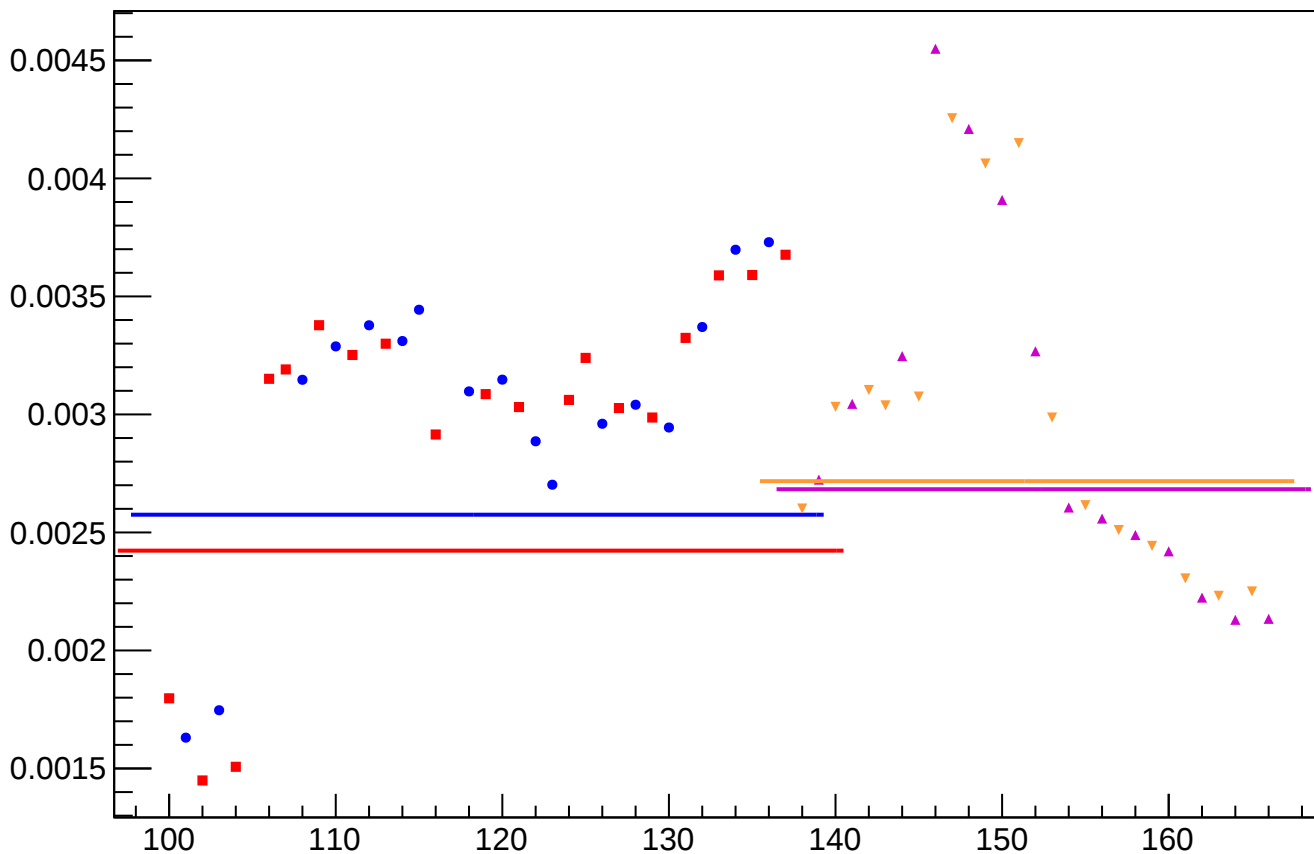
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.647+/-0.000 χ^2/NDF : 3206018283609.9/30

Out: -0.778+/-0.000 χ^2/NDF : 2960042008472.2/33

All: -0.714+/-0.000 χ^2/NDF : 6185055809099

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 : 824914.5/13

Left: 0.003+/-0.000 χ^2/NDF : 1520199.8/28

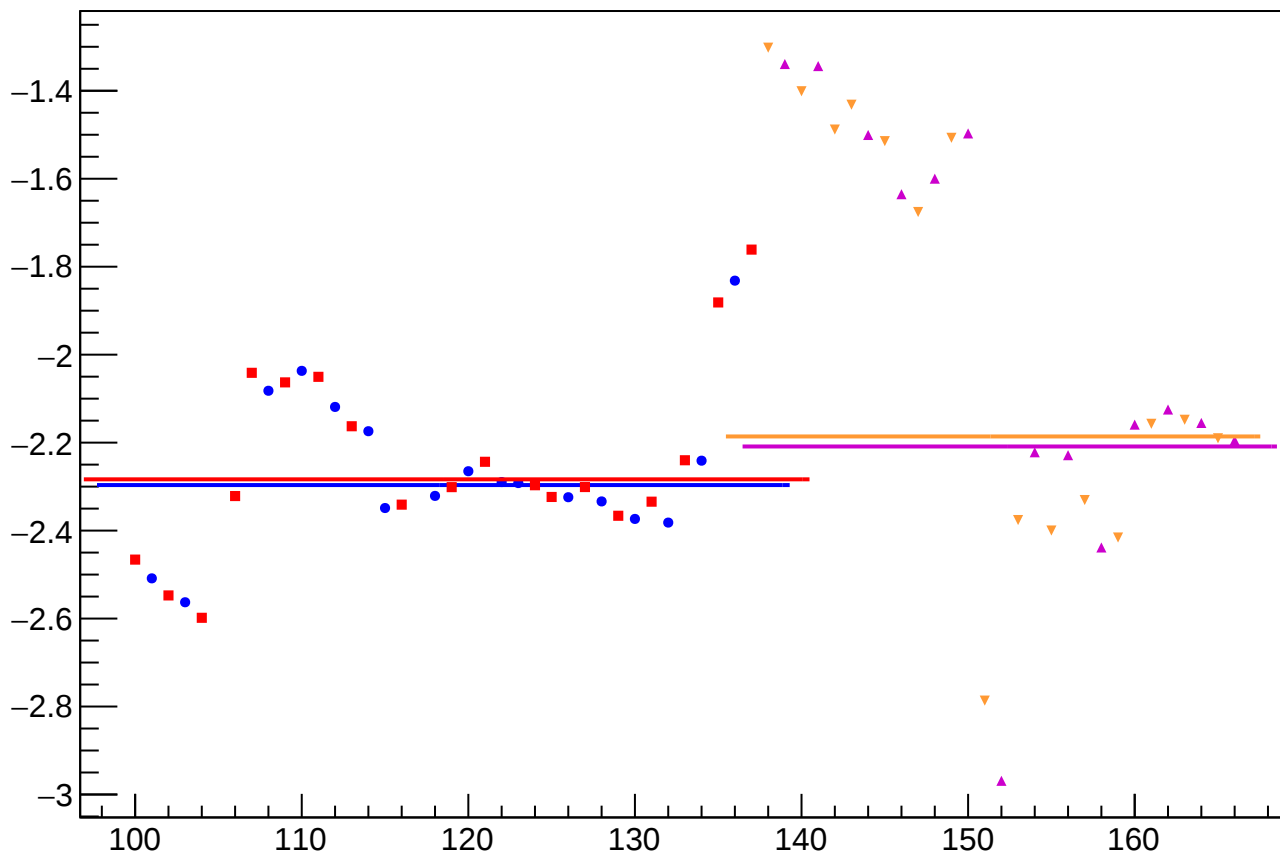
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF : 1850676.6/30

Out: 0.003+/-0.000 χ^2/NDF : 2279487.6/33

All: 0.003+/-0.000 χ^2/NDF : 4135406.4/64

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000

χ^2/NDF : 5782980938.4/16

Left: -2.197+/-0.000

χ^2/NDF : 117358277939.0/28

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: -2.234+/-0.000

χ^2/NDF : 72856580521.5/30

Out: -2.216+/-0.000

χ^2/NDF : 58623552313.5/33

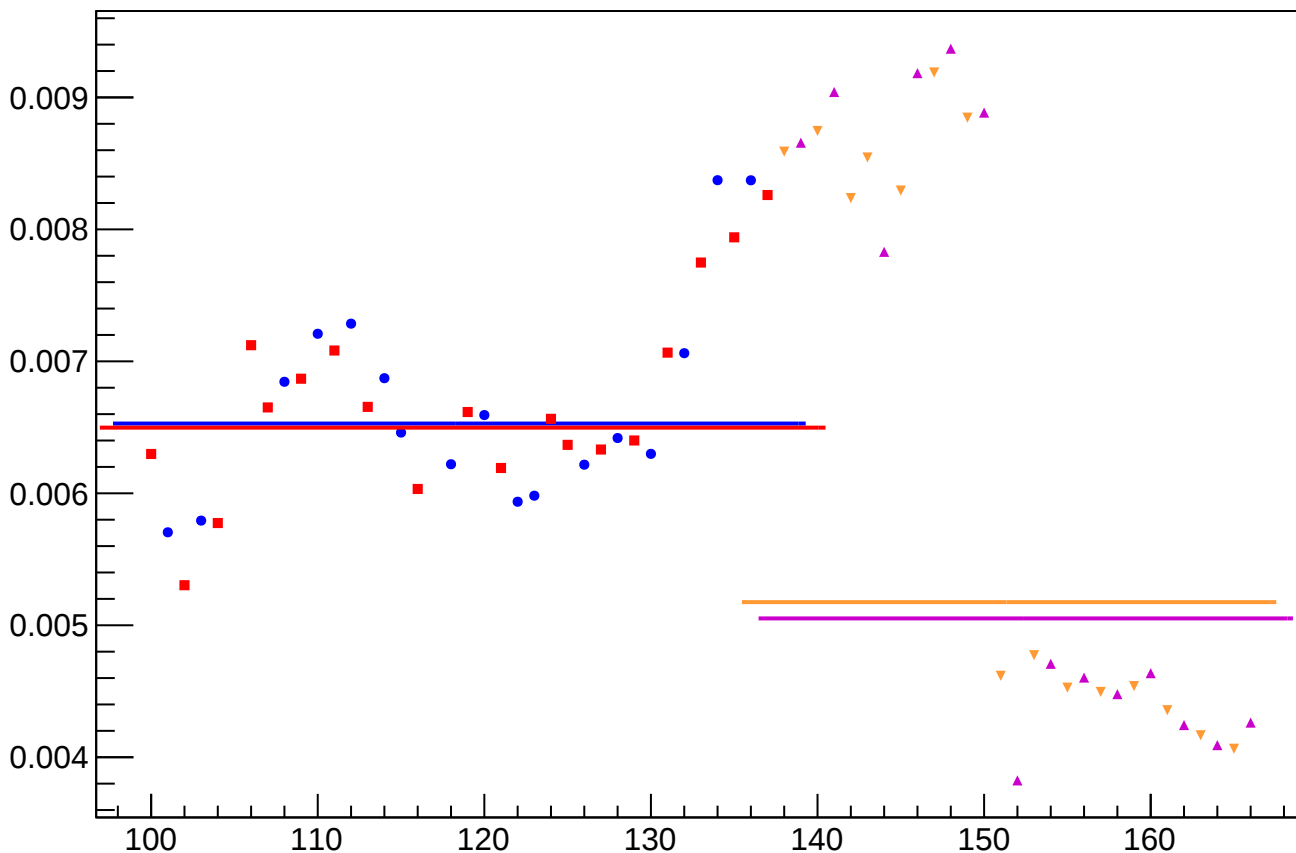
Left In: -2.209+/-0.000

χ^2/NDF : 66246605978.2/13

All: -2.225+/-0.000

χ^2/NDF : 131568776862.2/...

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 :2060736.7/13

Left: 0.005+/-0.000 χ^2/NDF : 3969033.3/28

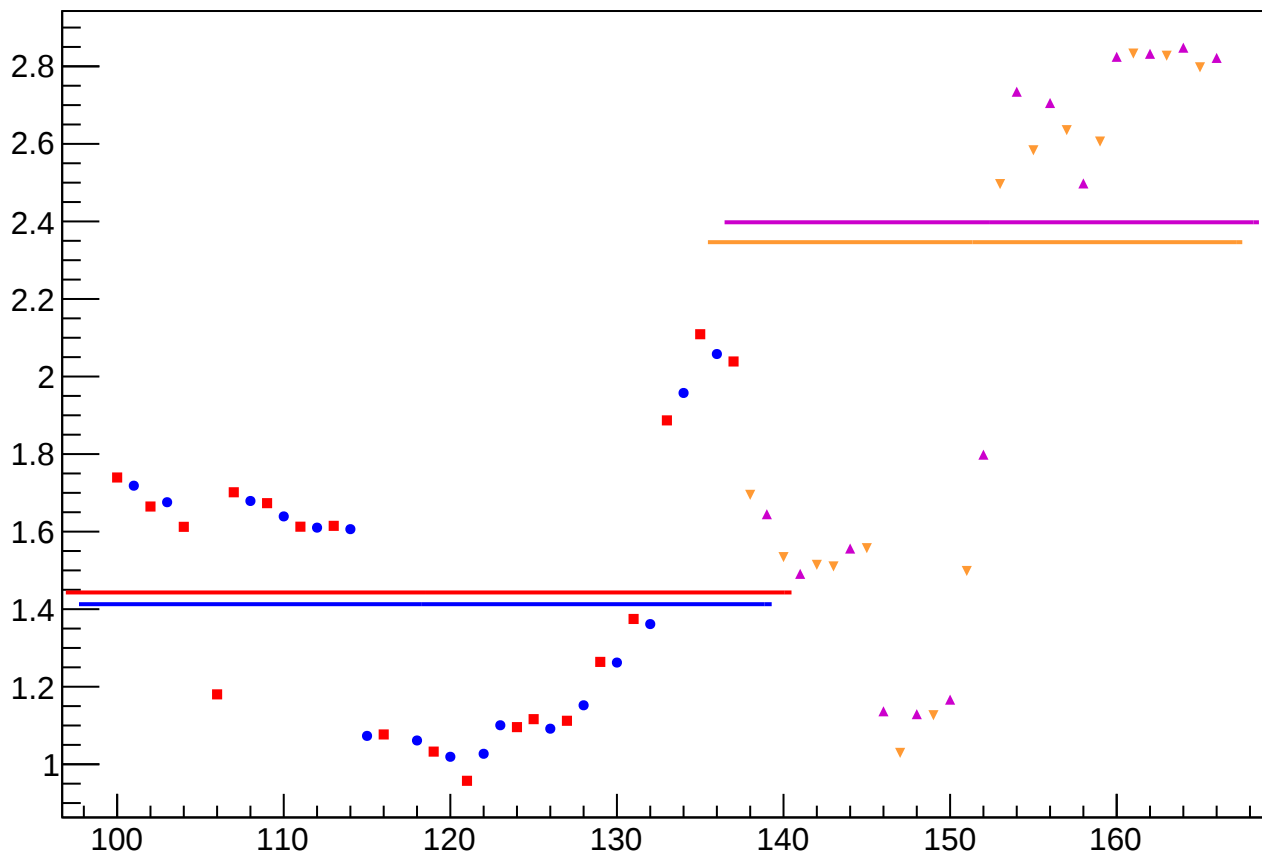
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF :2705968.2/30

Out: 0.006+/-0.000 χ^2/NDF :2456296.8/33

All: 0.006+/-0.000 χ^2/NDF : 5167381.4/64

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: 2.398+/-0.000 χ^2/NDF : 216631243739.9/13

Left: 2.372+/-0.000 χ^2/NDF : 426351067243.8/28

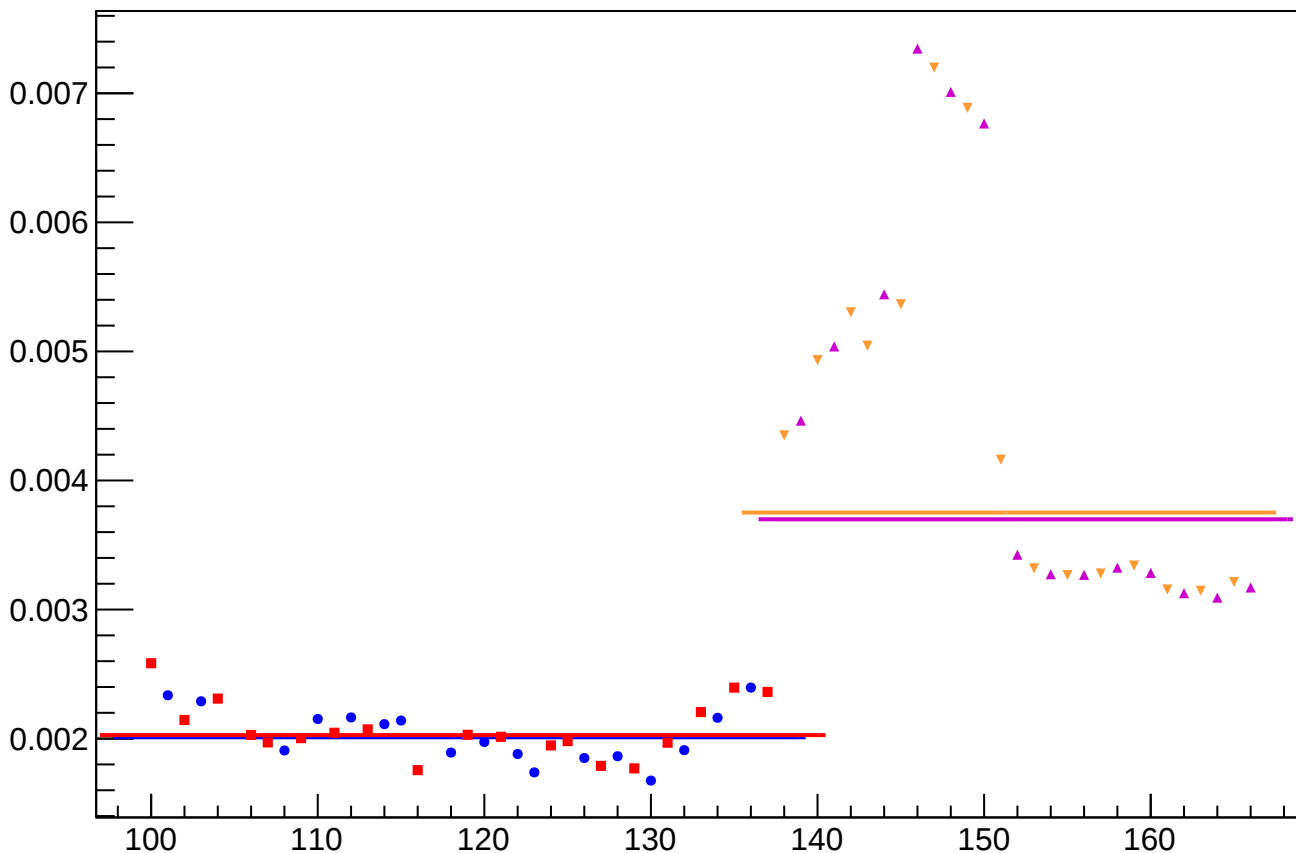
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.717+/-0.000 χ^2/NDF : 846388142338.5/30

Out: 1.717+/-0.000 χ^2/NDF : 772517141616.8/33

All: 1.717+/-0.000 χ^2/NDF : 1618905292718.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 152530.4/16

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1196864.1/14

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 103926.2/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1415523.2/13

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 2614266.6/28

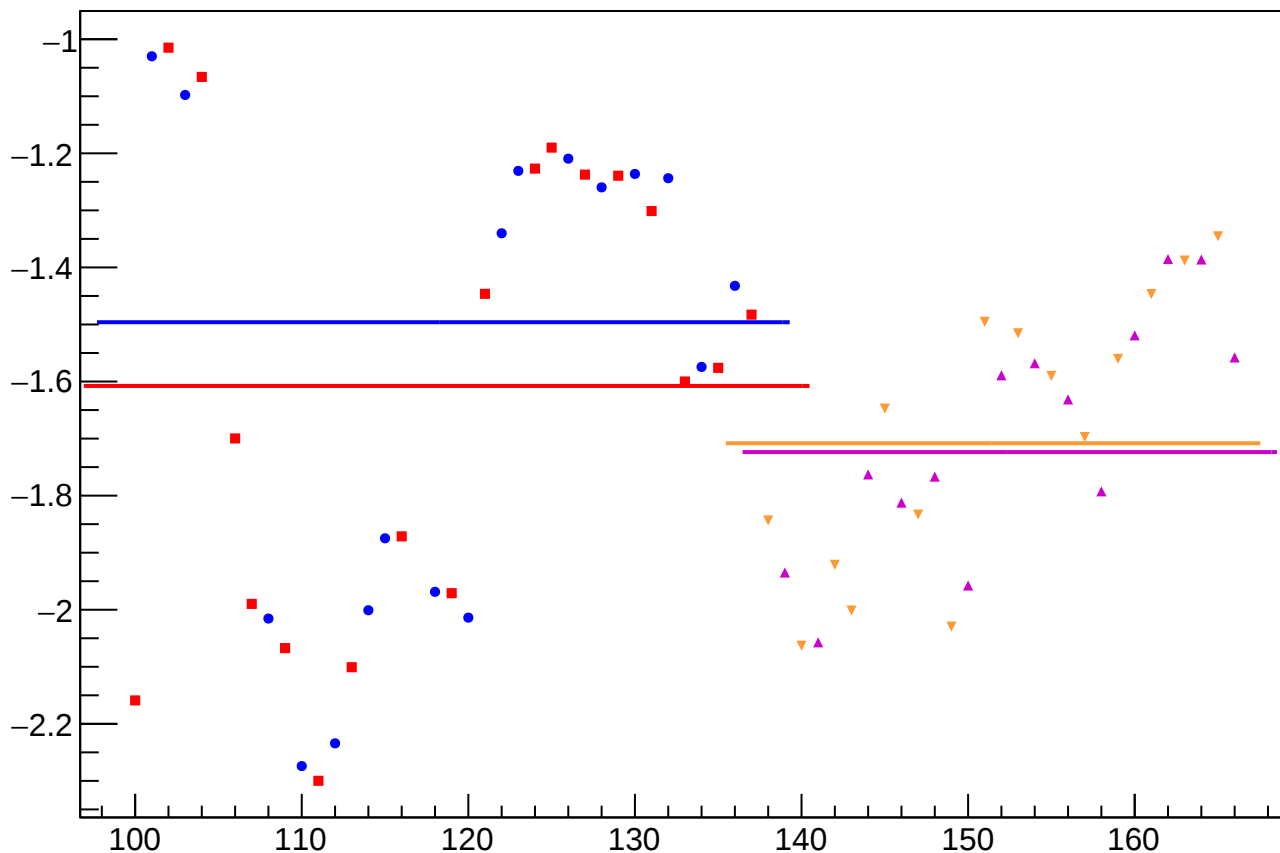
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 256903.9/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:4257262.2/30

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:4146197.0/33

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 8404214.9/64

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: -1.724+/-0.000 χ^2/NDF : 10634784927.7/13

Left: -1.716+/-0.000 χ^2/NDF : 25750549318.5/28

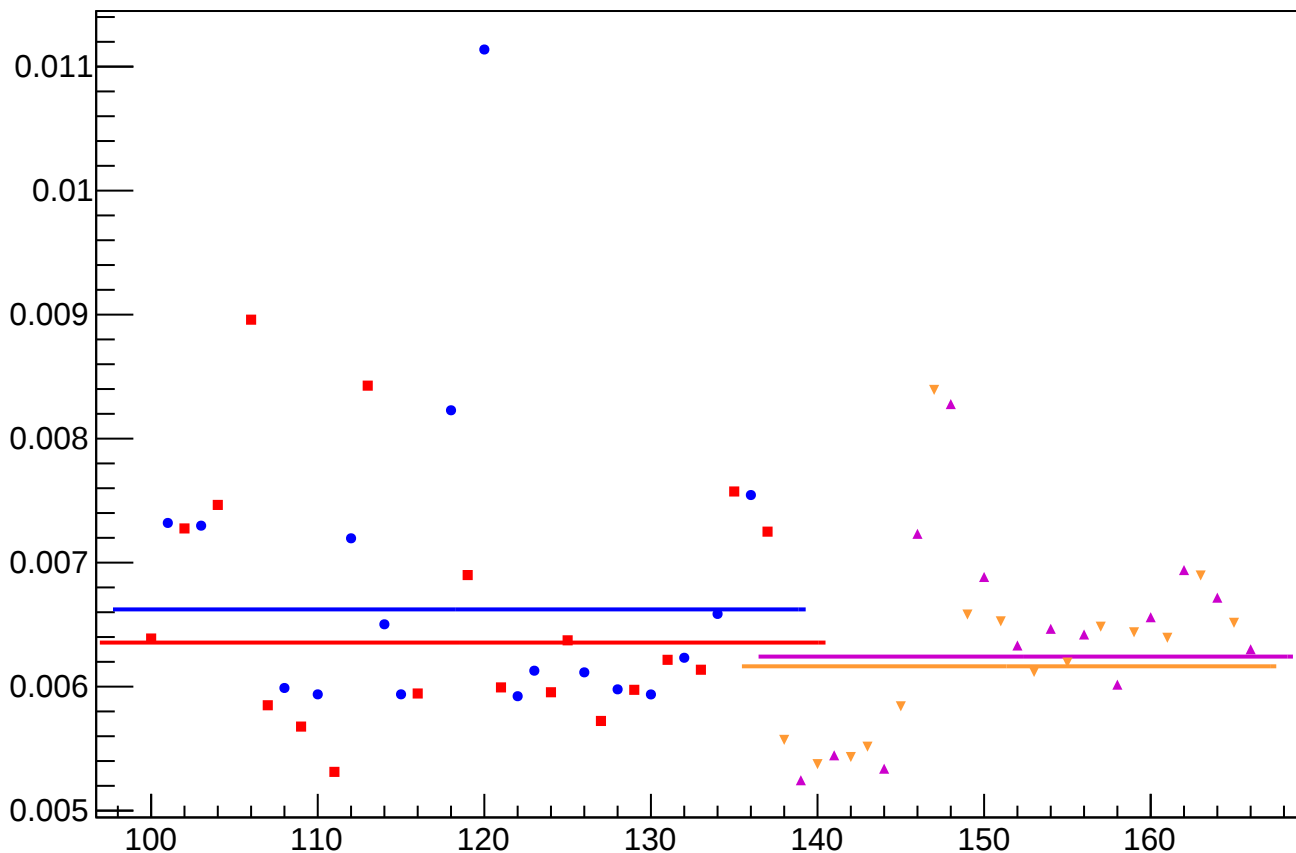
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.644+/-0.000 χ^2/NDF : 37839586174.3/30

Out: -1.671+/-0.000 χ^2/NDF : 43951427329.4/33

All: -1.658+/-0.000 χ^2/NDF : 81937122485.3/66

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 :286907.3/13

Left: 0.006+/-0.000 χ^2/NDF : 511922.2/28

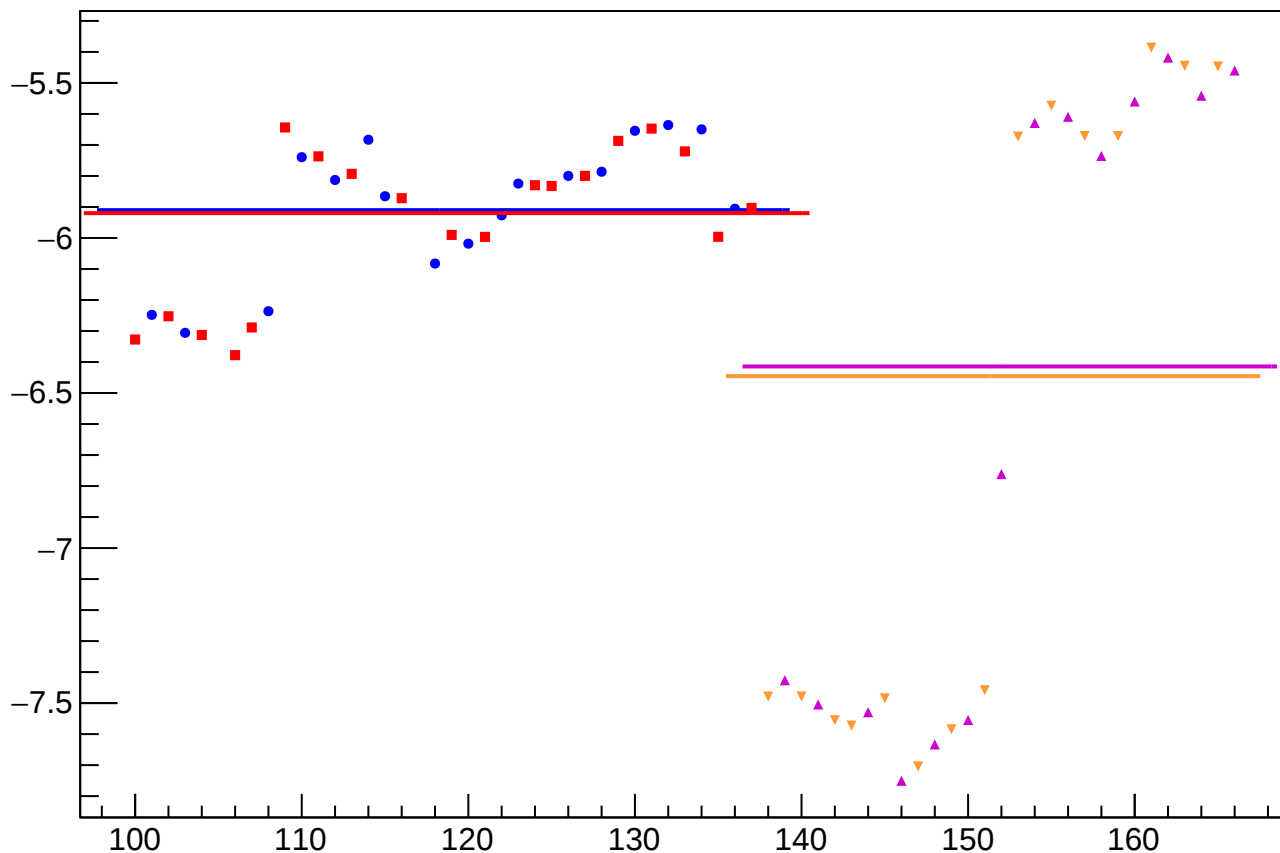
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :545701.3/30

Out: 0.006+/-0.000 χ^2/NDF :458733.0/33

All: 0.006+/-0.000 χ^2/NDF : 1012570.1/64

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: -6.414+/-0.000 χ^2/NDF : 127346489136.2/13

Left: -6.430+/-0.000 χ^2/NDF : 275513453724.5/28

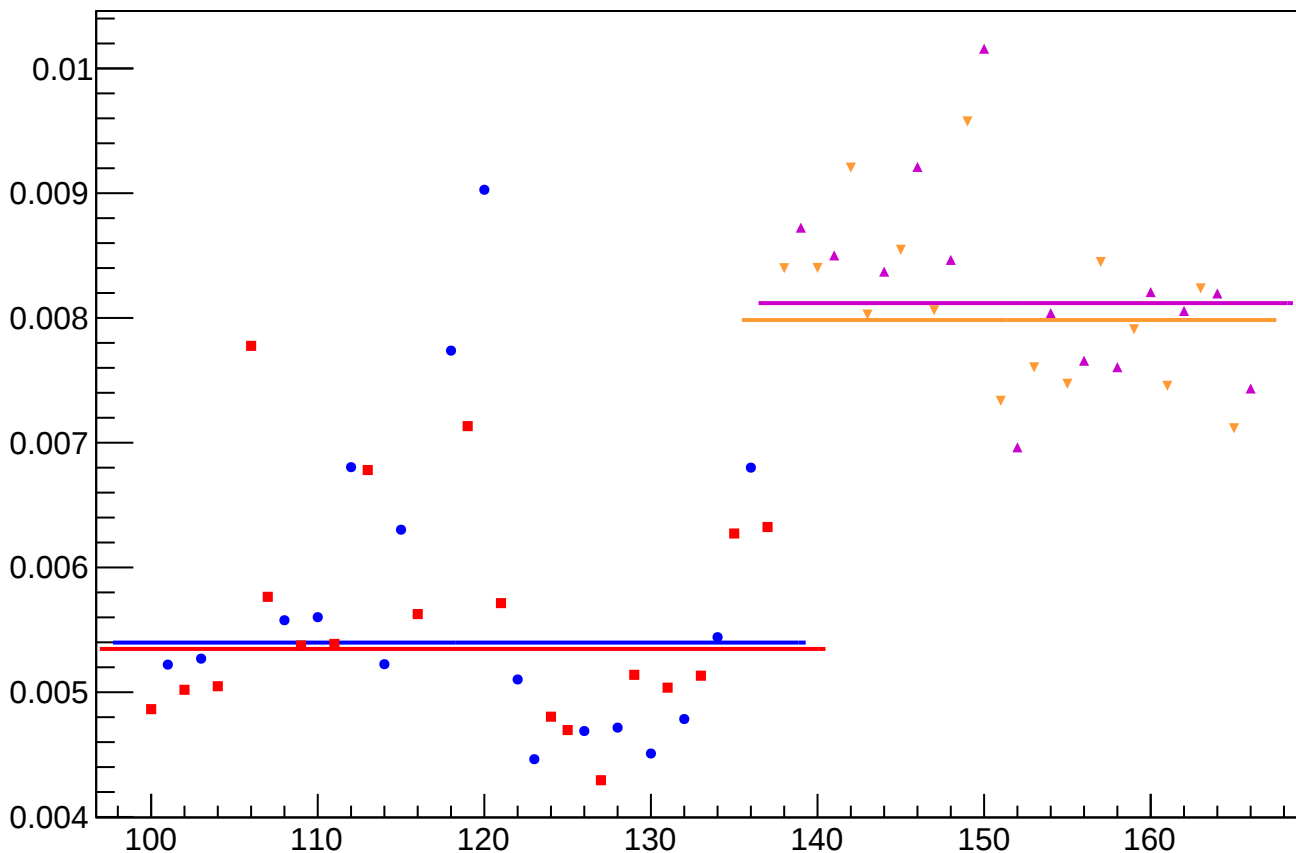
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.121+/-0.000 χ^2/NDF : 160029438012.9/30

Out: -6.132+/-0.000 χ^2/NDF : 185679605236.4/33

All: -6.126+/-0.000 χ^2/NDF : 345730657619.8

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 :150988.8/13

Left: 0.008+/-0.000 χ^2/NDF : 265857.5/28

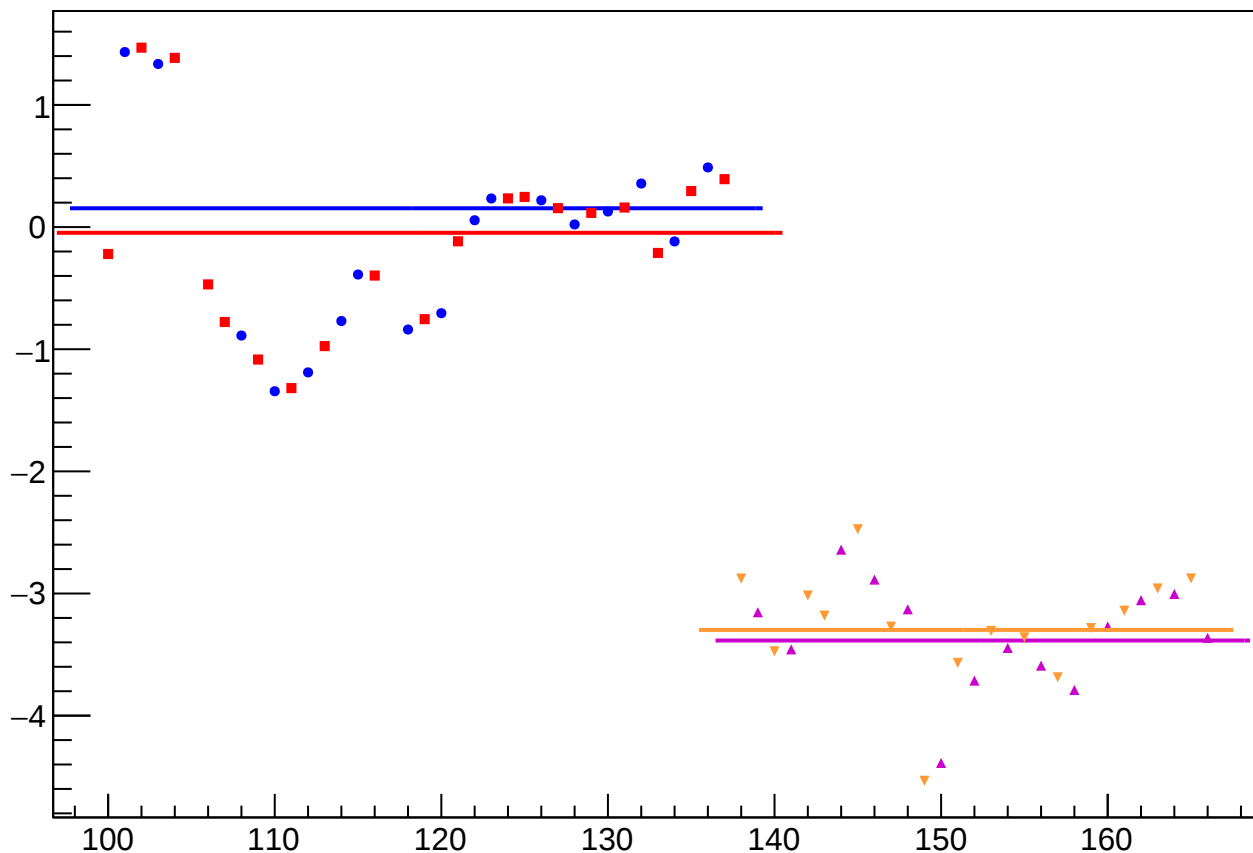
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1776880.3/30

Out: 0.006+/-0.000 χ^2/NDF :1609343.3/33

All: 0.006+/-0.000 χ^2/NDF : 3391836.0/64

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: -3.385+/-0.000 χ^2/NDF : 6850052239.2/13

Left: -3.341+/-0.000 χ^2/NDF : 14930382905.0/28

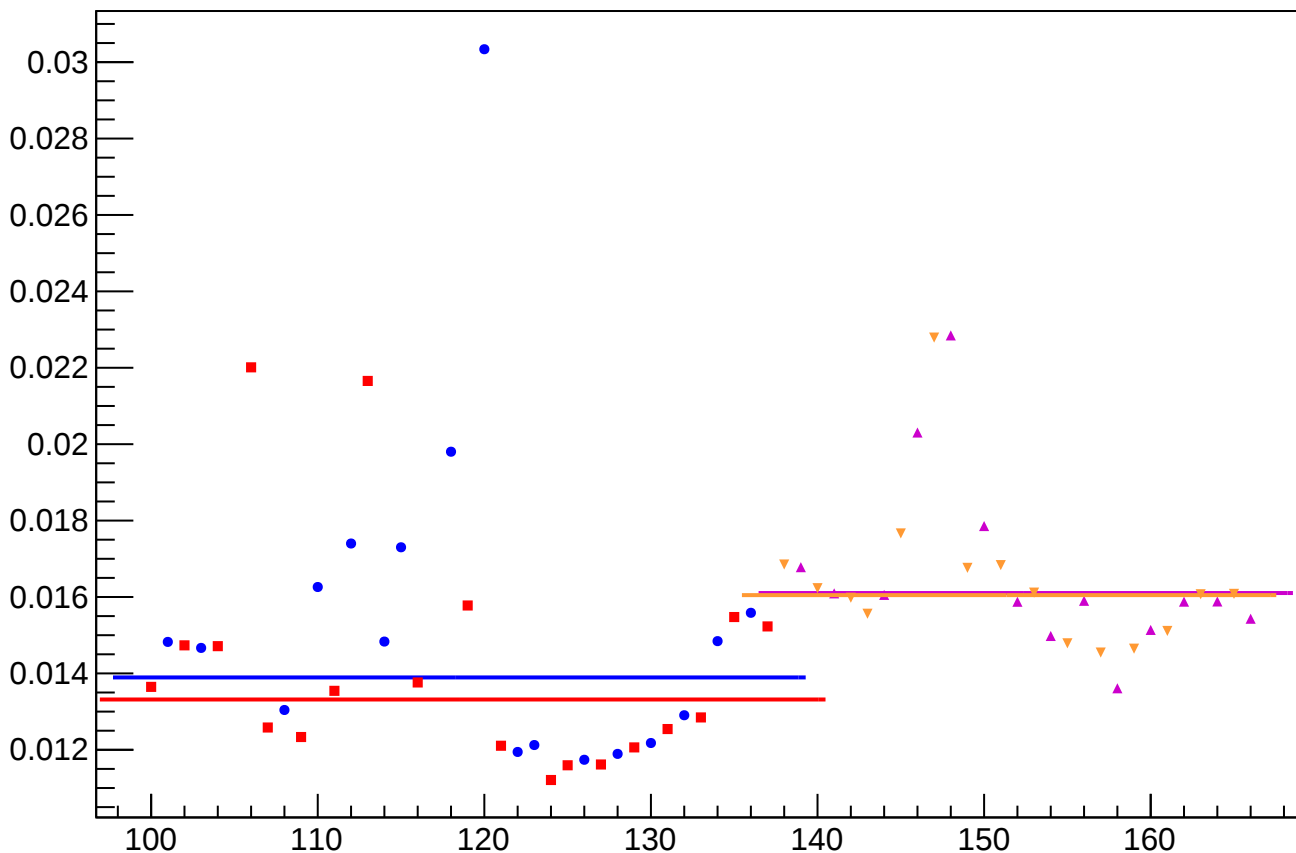
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -1.836+/-0.000 χ^2/NDF : 239901472946.8/30

Out: -1.765+/-0.000 χ^2/NDF : 232637724514.9/33

All: -1.799+/-0.000 χ^2/NDF : 472725108553.5

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 :277016.8/13

Left: 0.016+/-0.000 χ^2/NDF : 471291.4/28

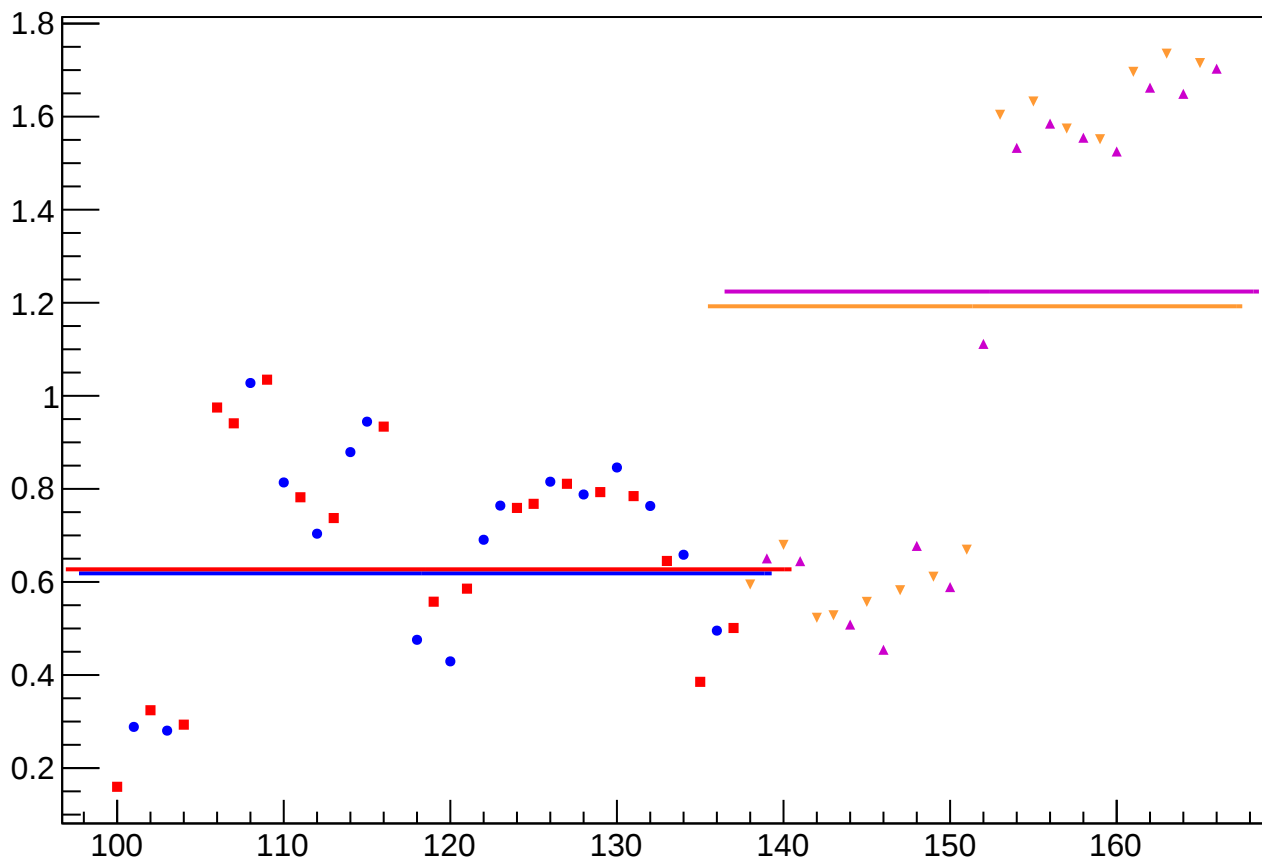
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :845985.2/30

Out: 0.015+/-0.000 χ^2/NDF :772875.6/33

All: 0.015+/-0.000 χ^2/NDF : 1629255.3/64

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: 1.224+/-0.000 χ^2/NDF : 50847046797.2/13

Left: 1.209+/-0.000 χ^2/NDF : 109508507006.9/28

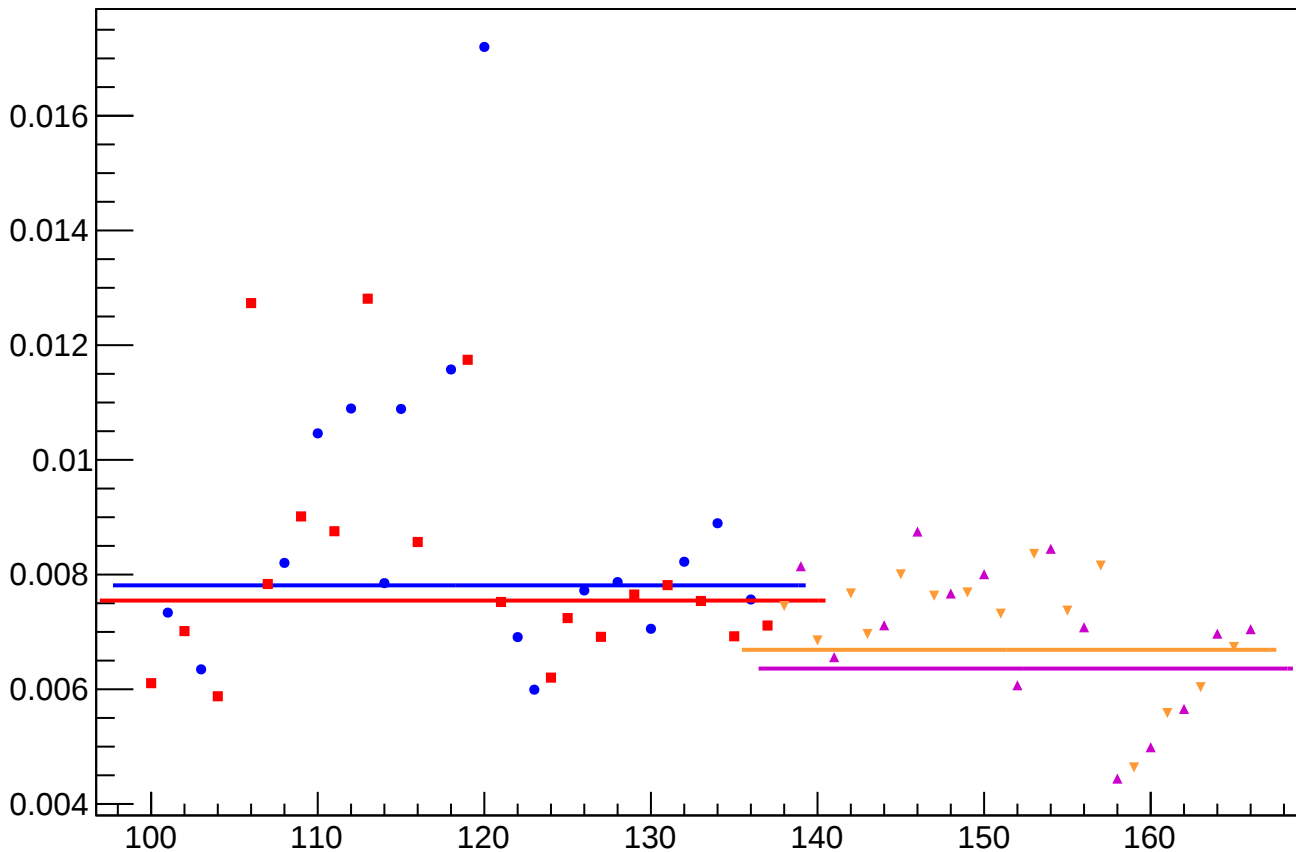
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.052+/-0.000 χ^2/NDF : 81285724445.9/30

Out: 1.005+/-0.000 χ^2/NDF : 88110743513.5/33

All: 1.029+/-0.000 χ^2/NDF : 169758926033.6

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 : 857420.7/13

Left: 0.007+/-0.000 χ^2/NDF : 1497384.3/28

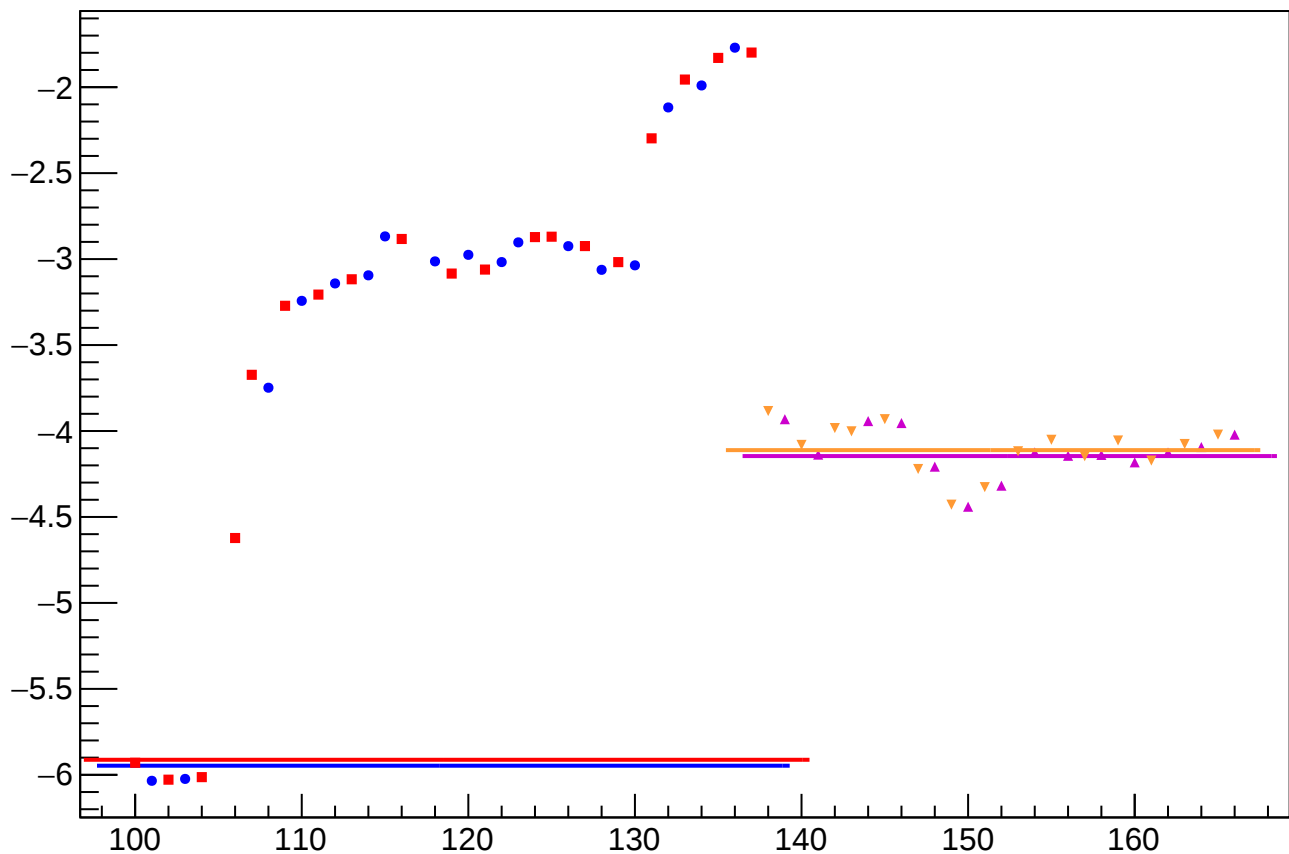
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.007+/-0.000 χ^2/NDF : 1611472.6/30

Out: 0.007+/-0.000 χ^2/NDF : 1164334.8/33

All: 0.007+/-0.000 χ^2/NDF : 2788987.5/64

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 $\chi^2/\text{NDF}: 13165963559.5/16$

Left Out: -4.111+/-0.000 $\chi^2/\text{NDF}: 30287925.4/14$

Right Out: -5.912+/-0.000 $\chi^2/\text{NDF}: 14619971495.0/18$

Left In: -4.146+/-0.000 $\chi^2/\text{NDF}: 21953334.5/13$

Left: -4.132+/-0.000 $\chi^2/\text{NDF}: 53093429.2/28$

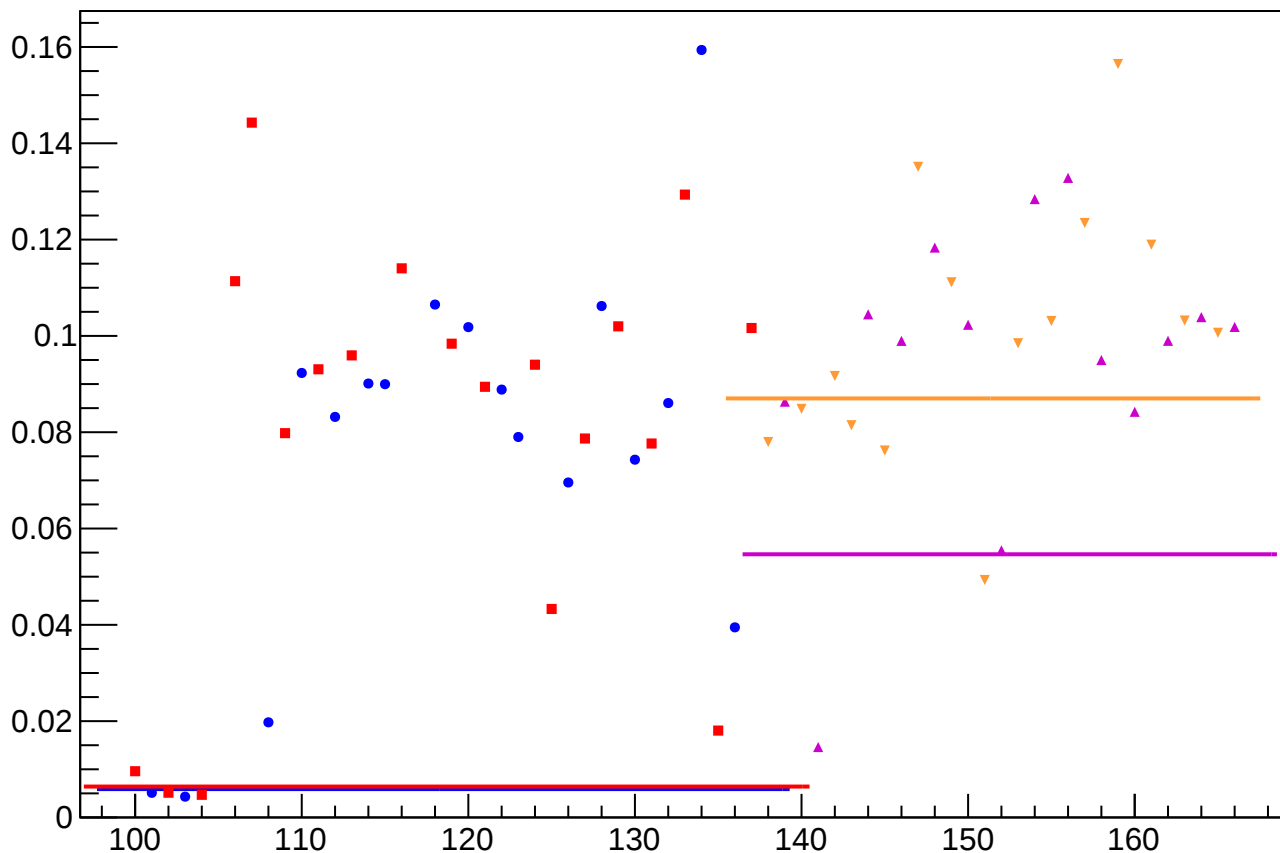
Right: -5.932+/-0.000 $\chi^2/\text{NDF}: 27811040884.1/35$

In: -5.880+/-0.000 $\chi^2/\text{NDF}: 18859534871.0/30$

Out: -5.859+/-0.000 $\chi^2/\text{NDF}: 18356668571.2/33$

All: -5.871+/-0.000 $\chi^2/\text{NDF}: 37226713535.0/61$

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: 0.055+/-0.000 χ^2/NDF :6340600.1/13

Left: 0.067+/-0.000 χ^2/NDF : 9386635.3/28

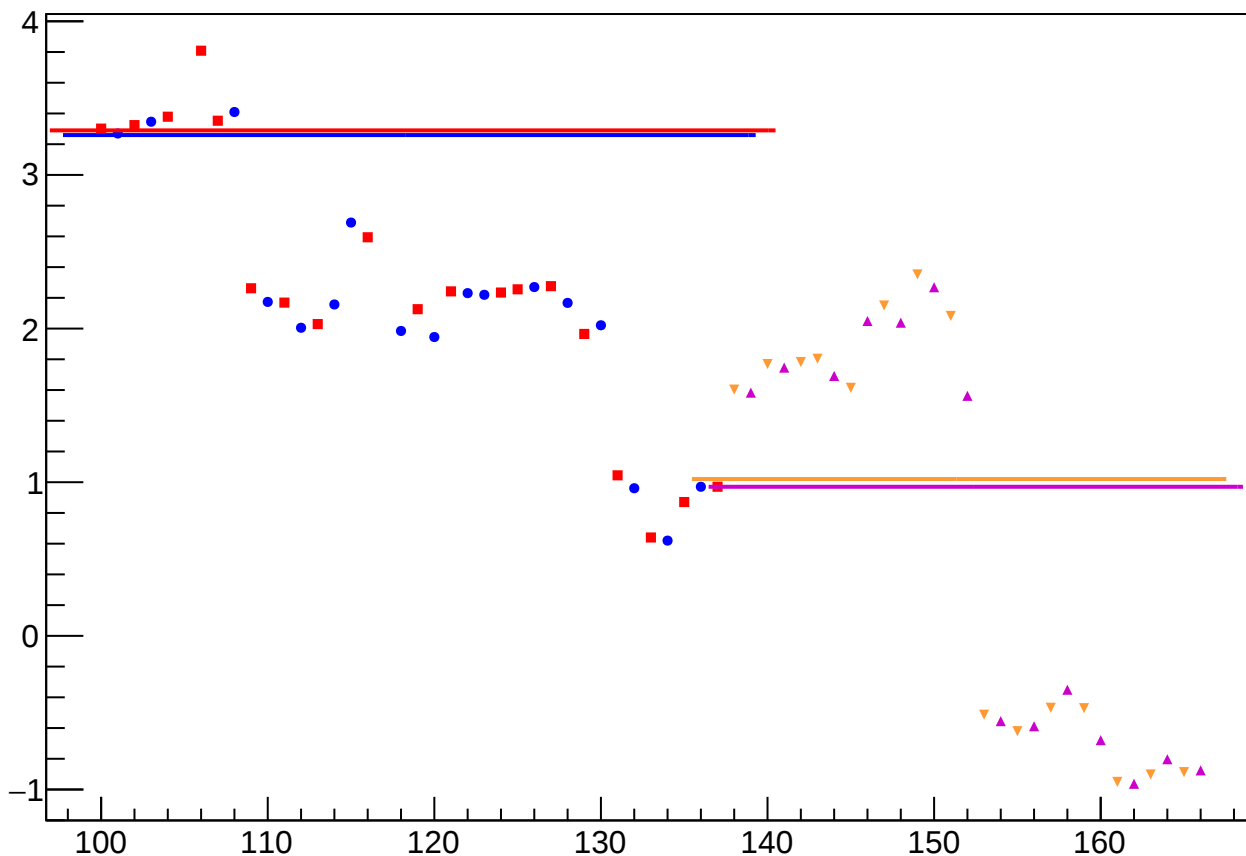
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF :22588528.6/30

Out: 0.009+/-0.000 χ^2/NDF :24892573.3/33

All: 0.008+/-0.000 χ^2/NDF : 47537823.9/64

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259 $\pm$ 0.000 χ^2/NDF : 2921931976.8/16

Left Out: 1.021 $\pm$ 0.000 χ^2/NDF :1679856943.4/14

Right Out: 3.290 $\pm$ 0.000 χ^2/NDF : 3262231575.5/18

Left In: 0.970 $\pm$ 0.000 χ^2/NDF :1649324574.3/13

Left: 0.994 $\pm$ 0.000 χ^2/NDF : 3330639906.2/28

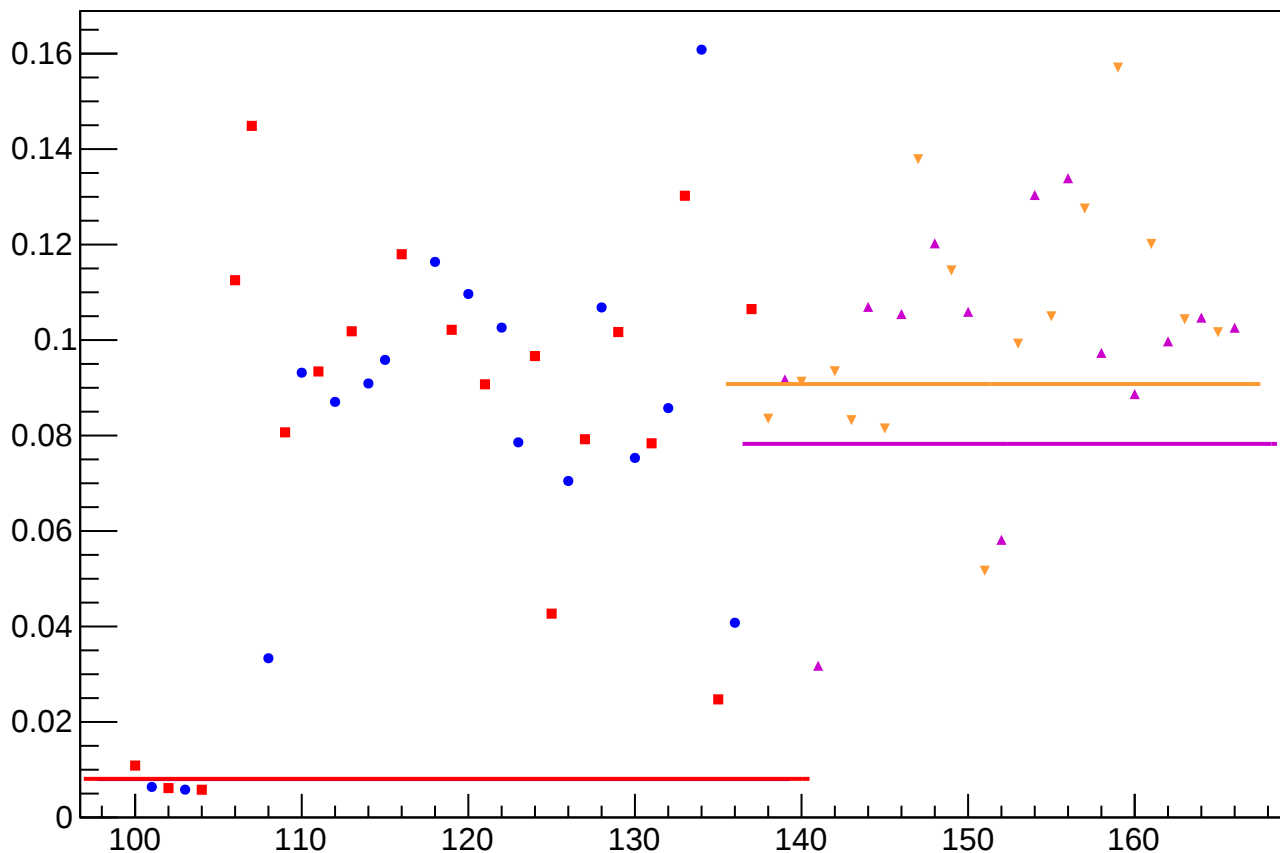
Right: 3.274 $\pm$ 0.000 χ^2/NDF : 6196998308.4/35

In: 3.167 $\pm$ 0.000 χ^2/NDF :10640550830.8/30

Out: 3.200 $\pm$ 0.000 χ^2/NDF :10341407741.5/33

All: 3.183 $\pm$ 0.000 χ^2/NDF : 20997407311.6/66

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: 0.078+/-0.000 χ^2/NDF :2745141.9/13

Left: 0.084+/-0.000 χ^2/NDF : 4330737.5/28

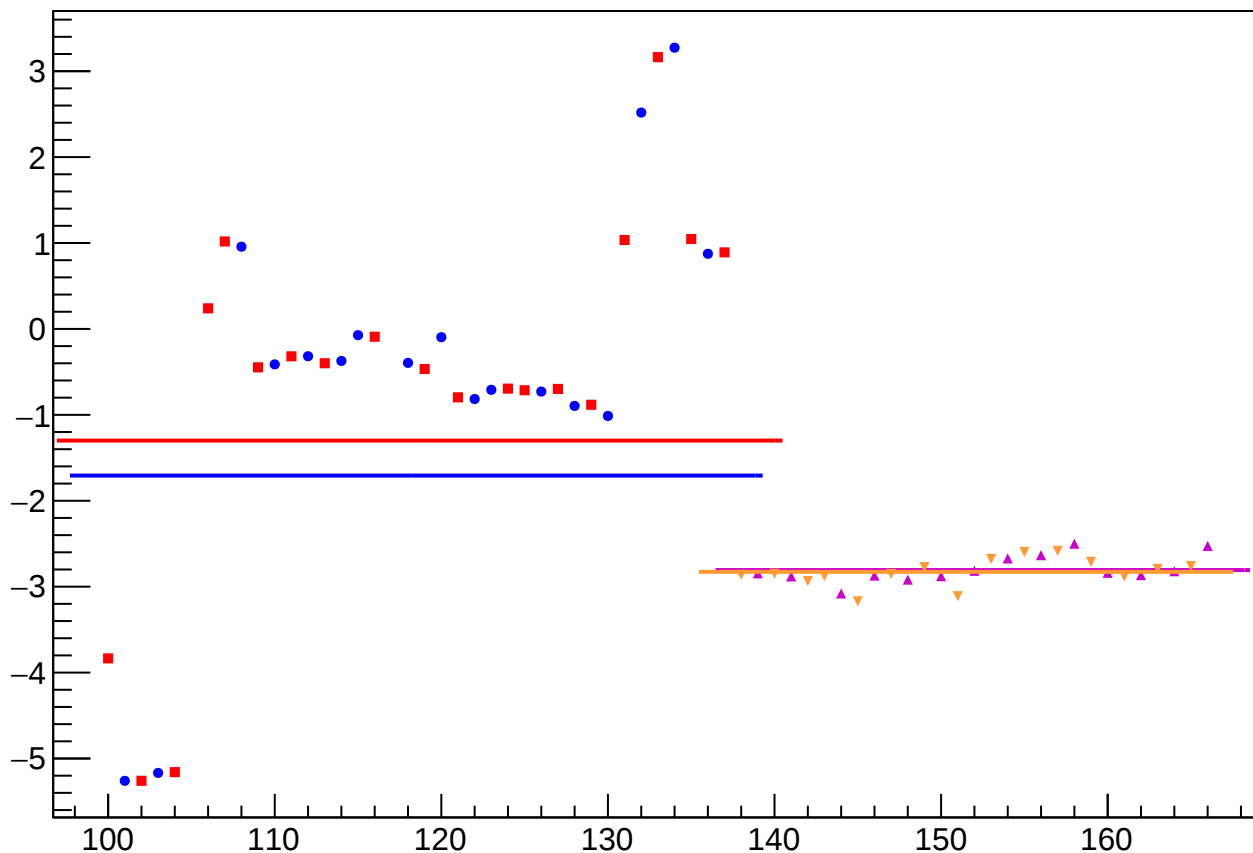
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.011+/-0.000 χ^2/NDF :21907916.4/30

Out: 0.011+/-0.000 χ^2/NDF :24060669.1/33

All: 0.011+/-0.000 χ^2/NDF : 45975565.6/64

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000

χ^2/NDF : 166125579390.4/16

Left: -2.817+/-0.000

χ^2/NDF : 8442839680.8/28

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: -2.674+/-0.000

χ^2/NDF : 194488628796.1/30

Out: -2.626+/-0.000

χ^2/NDF : 235810514258.6/33

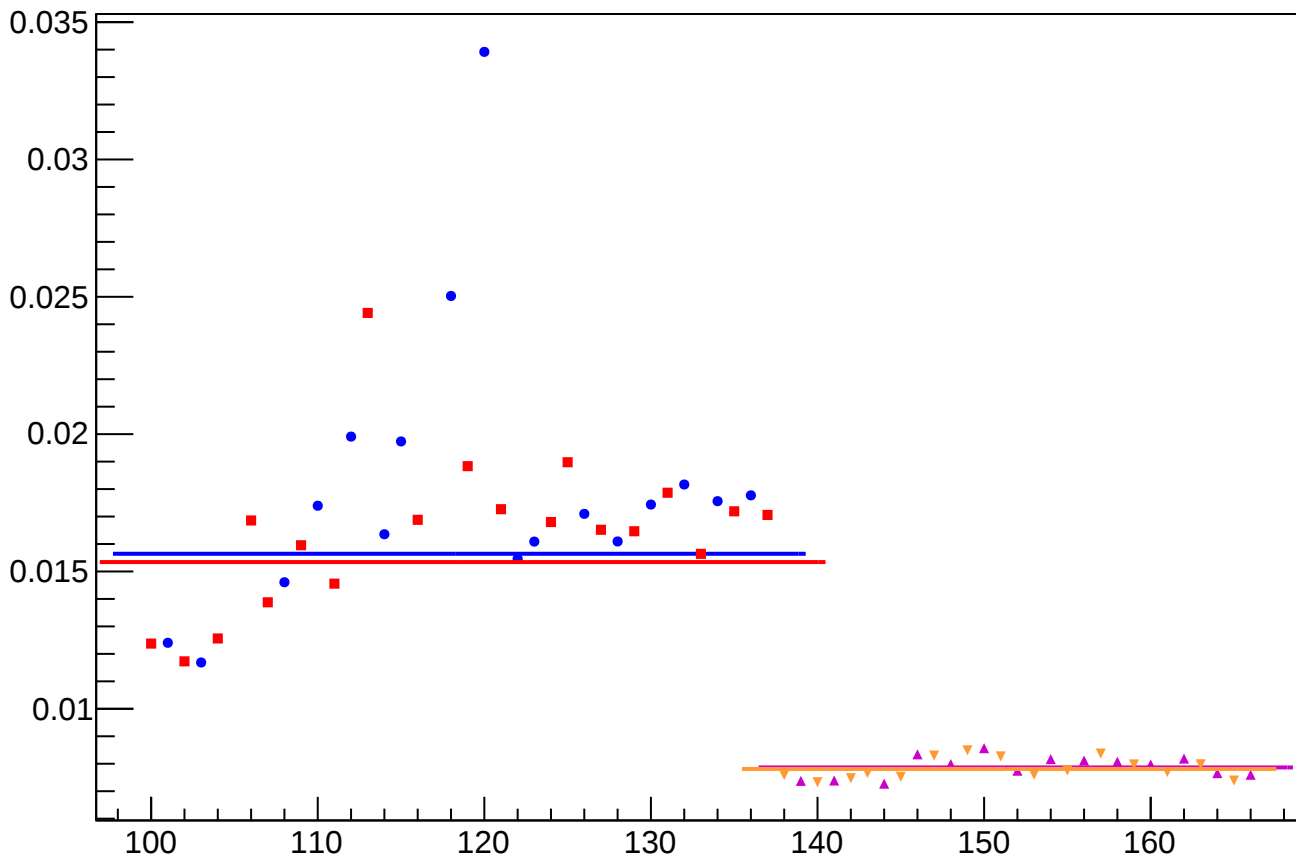
Left In: -2.807+/-0.000

χ^2/NDF : 3997940850.6/13

All: -2.649+/-0.000

χ^2/NDF : 430530227747.1

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 : 49752.9/13

Left: 0.008+/-0.000 χ^2/NDF : 94761.0/28

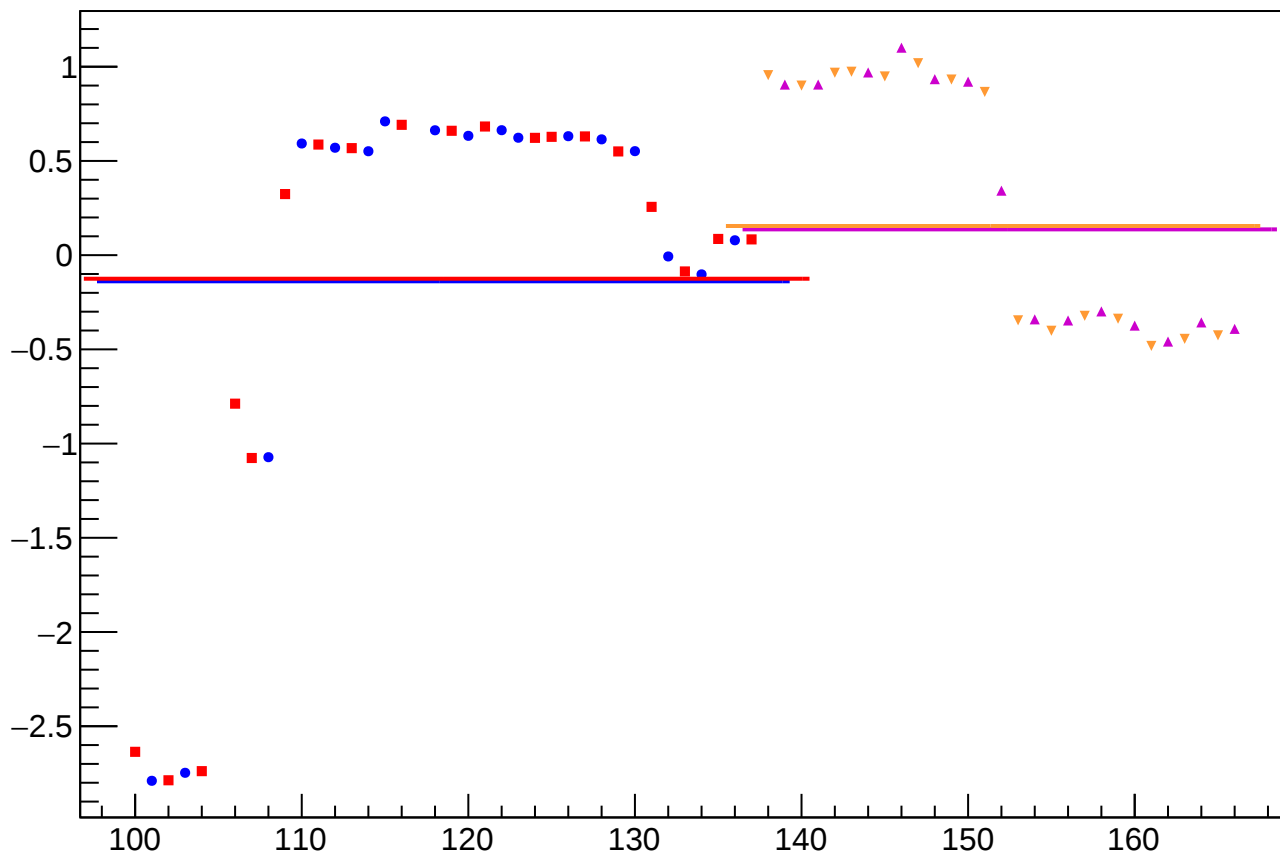
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3066525.3/30

Out: 0.009+/-0.000 χ^2/NDF : 2991047.0/33

All: 0.009+/-0.000 χ^2/NDF : 6057575.3/64

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: 0.137+/-0.000 χ^2/NDF : 96265104173.0/13

Left: 0.146+/-0.000 χ^2/NDF : 209637253850.1/28

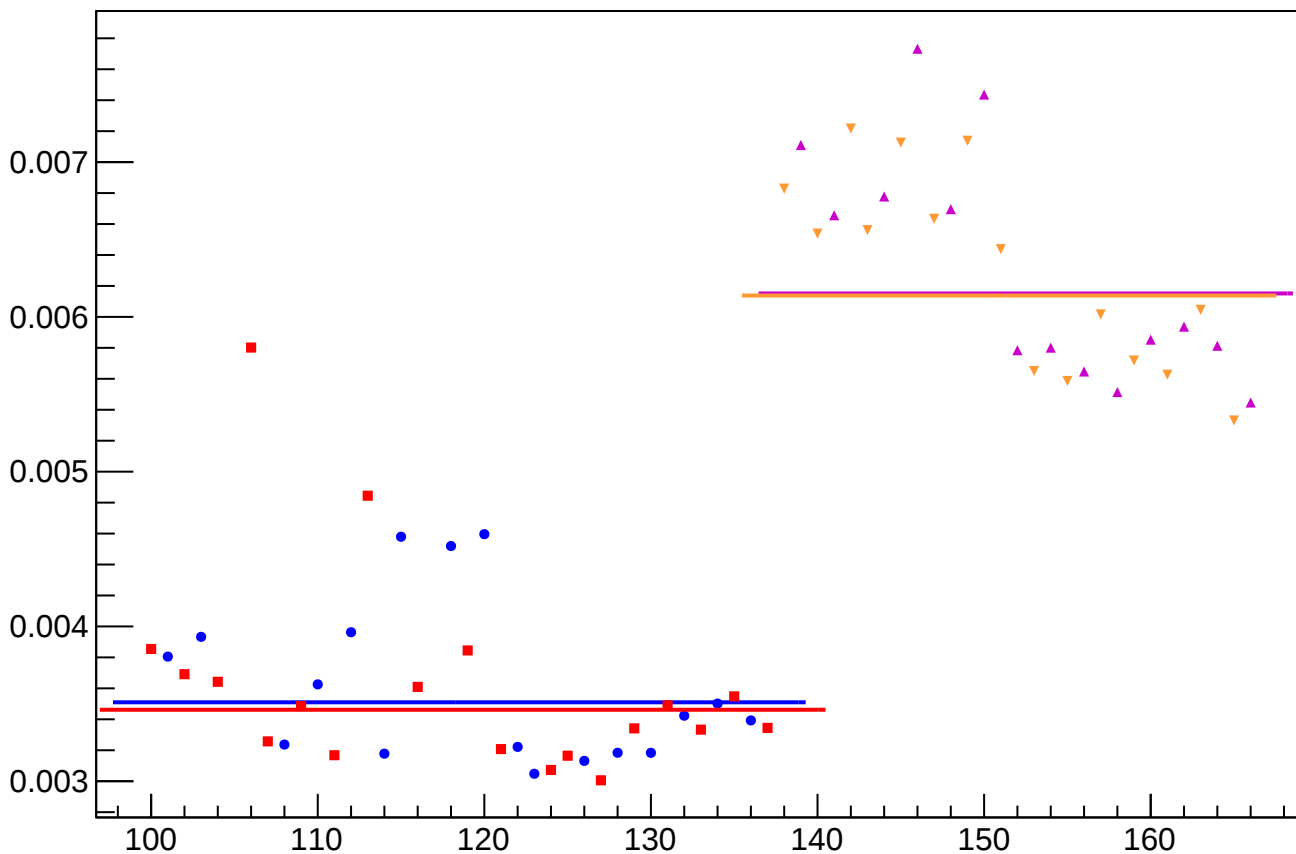
Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

In: -0.046+/-0.000 χ^2/NDF : 824370698562.4/30

Out: -0.036+/-0.000 χ^2/NDF : 888773002537.6/33

All: -0.041+/-0.000 χ^2/NDF : 1713183817654

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 :223507.8/13

Left: 0.006+/-0.000 χ^2/NDF : 398983.0/28

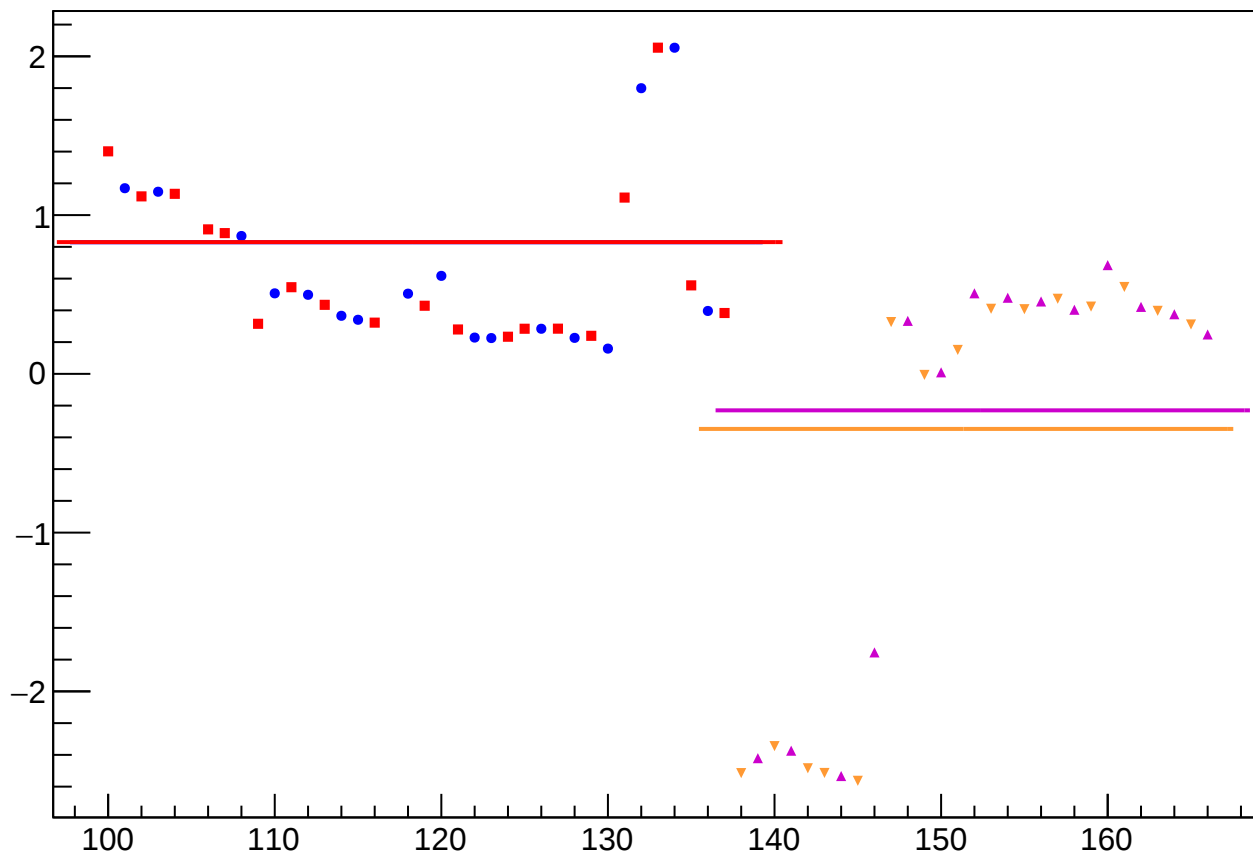
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.004+/-0.000 χ^2/NDF :2795088.9/30

Out: 0.004+/-0.000 χ^2/NDF :2942443.8/33

All: 0.004+/-0.000 χ^2/NDF : 5743209.3/64

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: -0.230+/-0.000 χ^2/NDF : 384628515600.0/13

Left: -0.289+/-0.000 χ^2/NDF : 830348270910.4/28

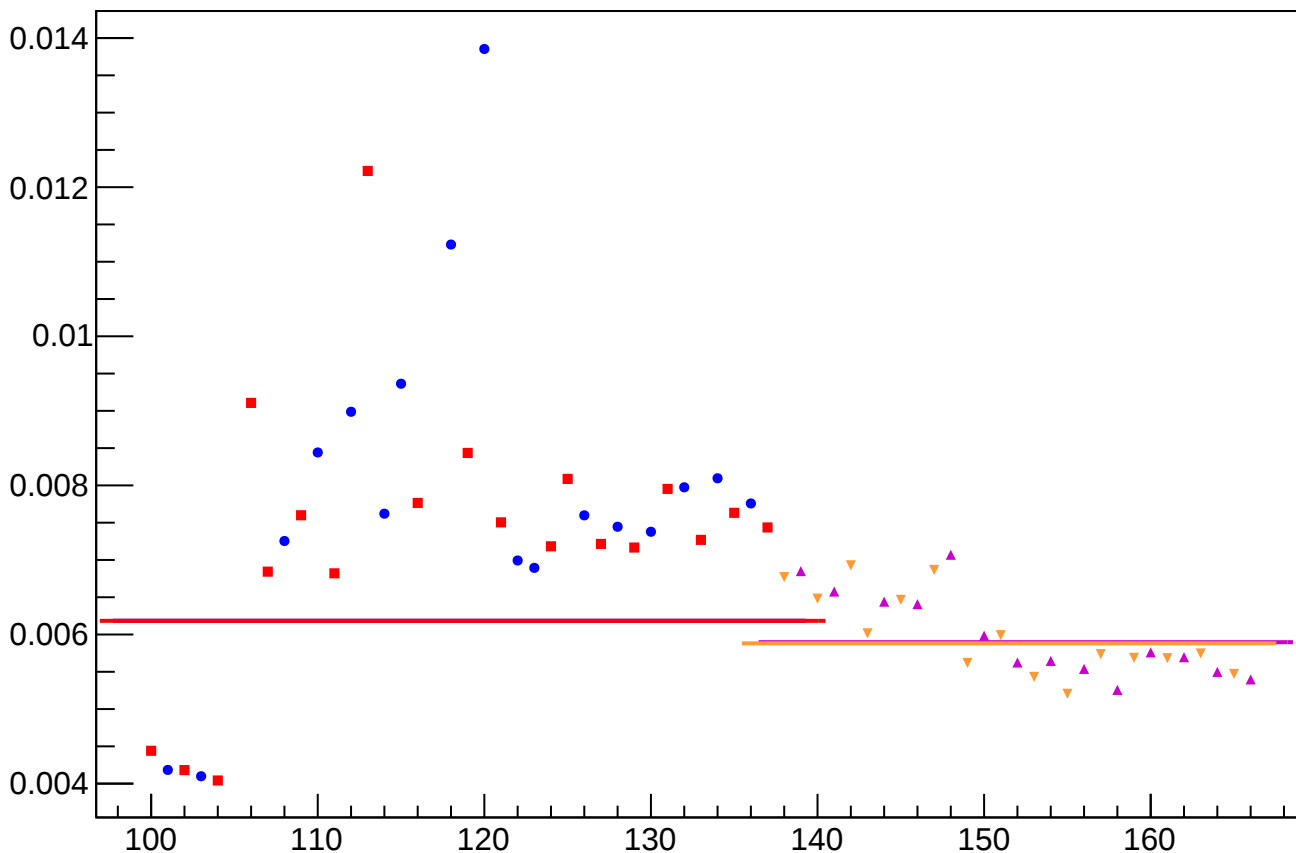
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.113+/-0.000 χ^2/NDF : 521727763588.3/30

Out: 0.053+/-0.000 χ^2/NDF : 615940060564.8/33

All: 0.082+/-0.000 χ^2/NDF : 1138455054407.0

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 : 157658.1/13

Left: 0.006+/-0.000 χ^2/NDF : 303498.6/28

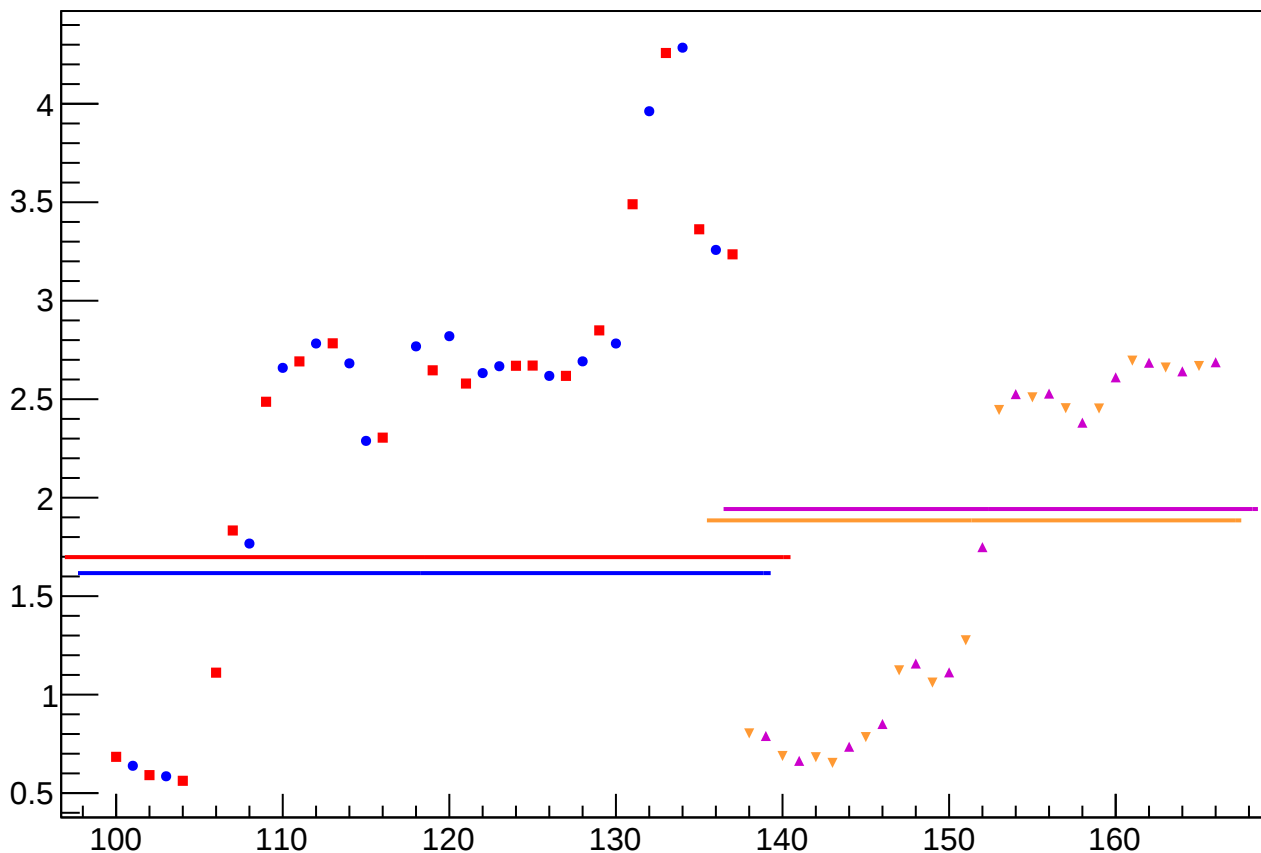
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF : 1402153.8/30

Out: 0.006+/-0.000 χ^2/NDF : 1190896.8/33

All: 0.006+/-0.000 χ^2/NDF : 2593067.1/64

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.885 $\pm$ 0.000 χ^2/NDF : 226694873587.0/14

Right Out: 1.698 $\pm$ 0.000 χ^2/NDF : 227408345801.7/18

Left In: 1.942 $\pm$ 0.000 χ^2/NDF : 202730597189.9/13

Left: 1.913 $\pm$ 0.000 χ^2/NDF : 429970083096.5/28

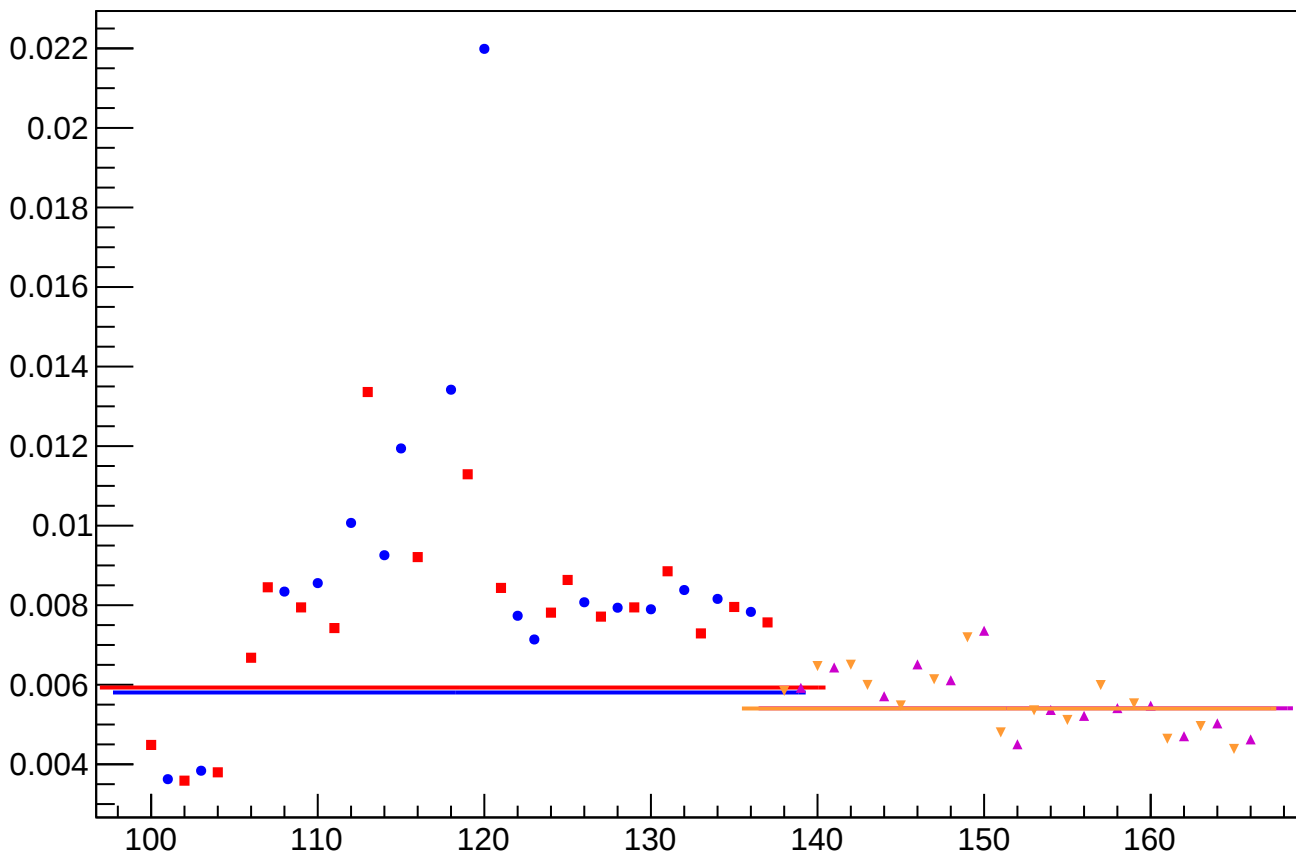
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 430781224378.3/35

In: 1.843 $\pm$ 0.000 χ^2/NDF : 416162415525.5/30

Out: 1.826 $\pm$ 0.000 χ^2/NDF : 457724701017.5/33

All: 1.834 $\pm$ 0.000 χ^2/NDF : 873961642762.0

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 : 340109.0/13

Left: 0.005+/-0.000 χ^2/NDF : 667482.0/28

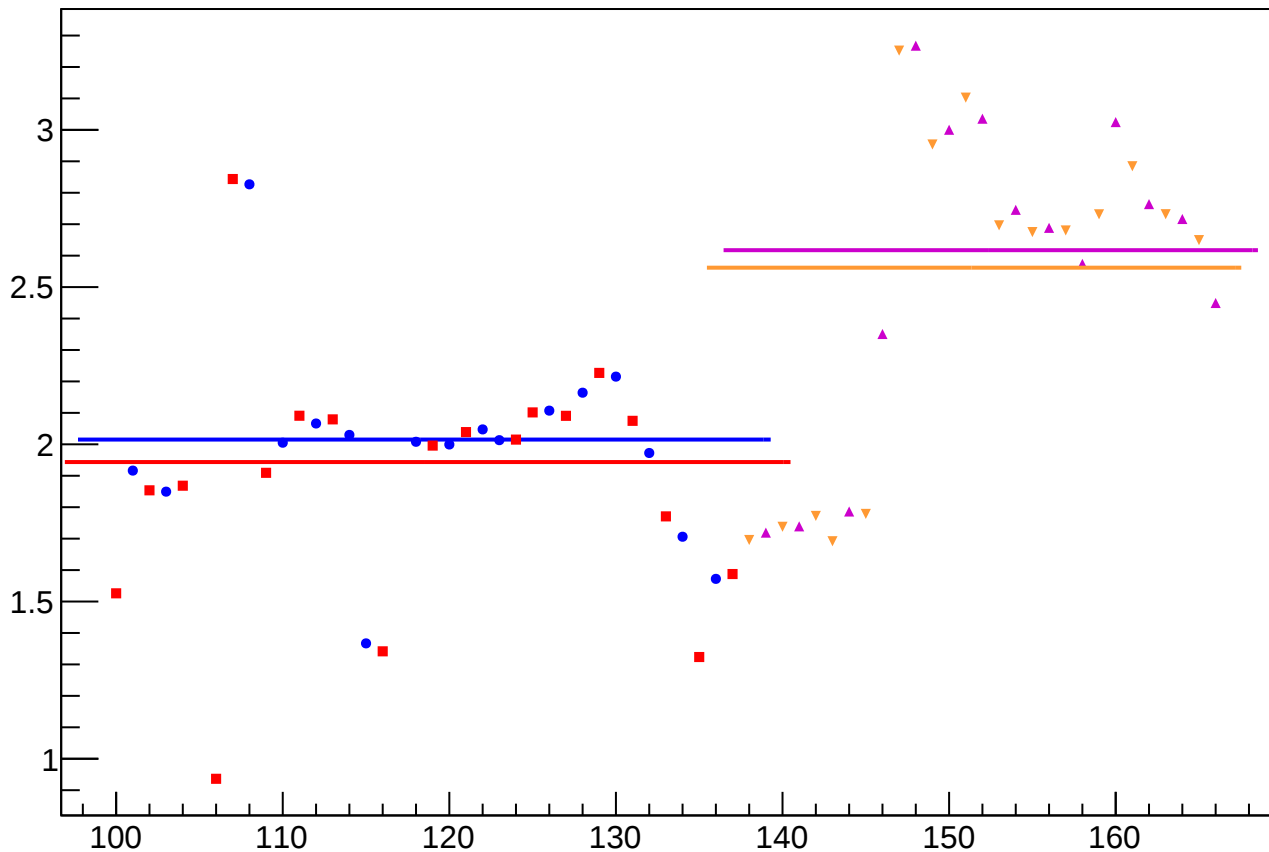
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.006+/-0.000 χ^2/NDF : 2289569.7/30

Out: 0.006+/-0.000 χ^2/NDF : 2070776.5/33

All: 0.006+/-0.000 χ^2/NDF : 4361150.7/64

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: 2.617+/-0.000 χ^2/NDF : 40909442307.9/13

Left: 2.590+/-0.000 χ^2/NDF : 89304633072.7/28

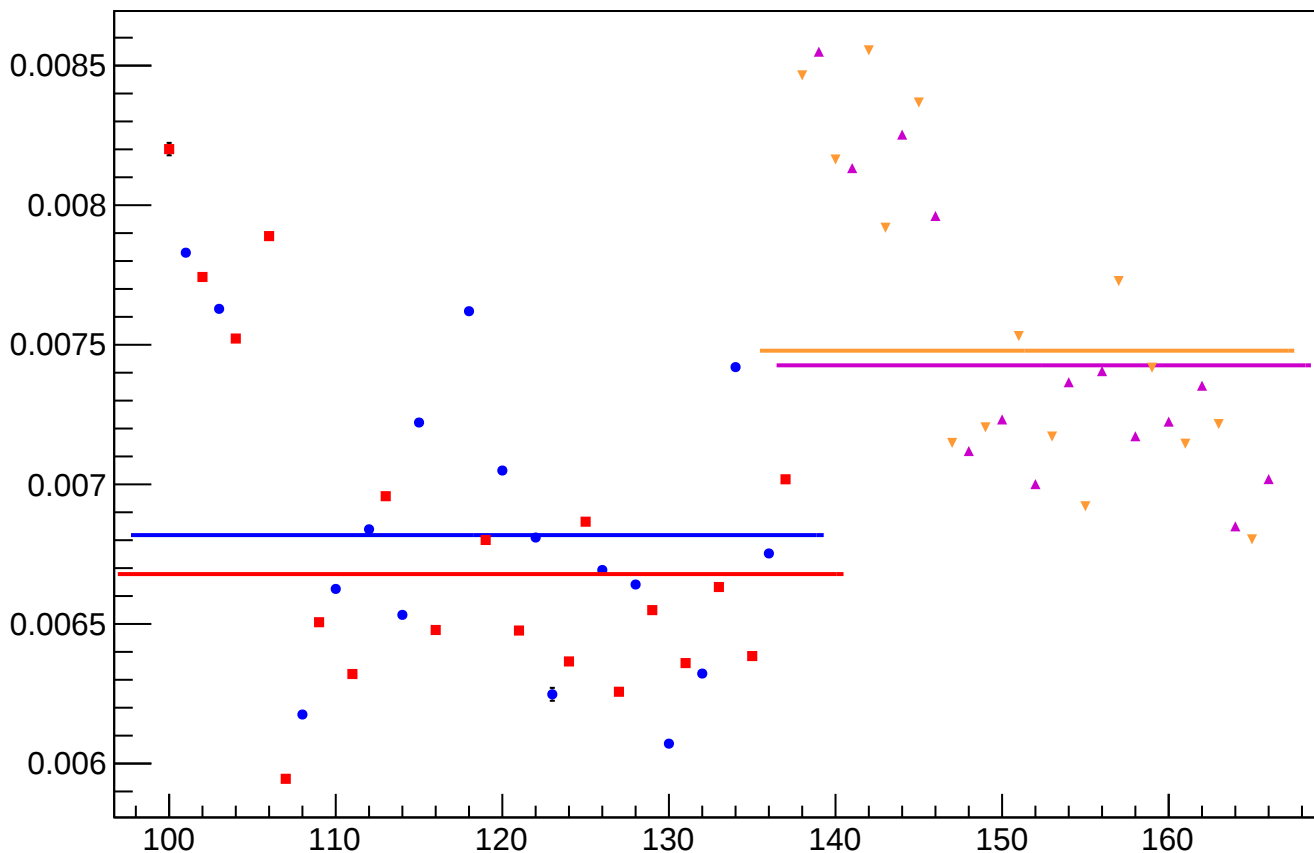
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.363+/-0.000 χ^2/NDF : 81843149736.4/30

Out: 2.284+/-0.000 χ^2/NDF : 101570704431.0/33

All: 2.323+/-0.000 χ^2/NDF : 184454092730.8

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 : 83236.5/13

Left: 0.007+/-0.000 χ^2/NDF : 181809.4/28

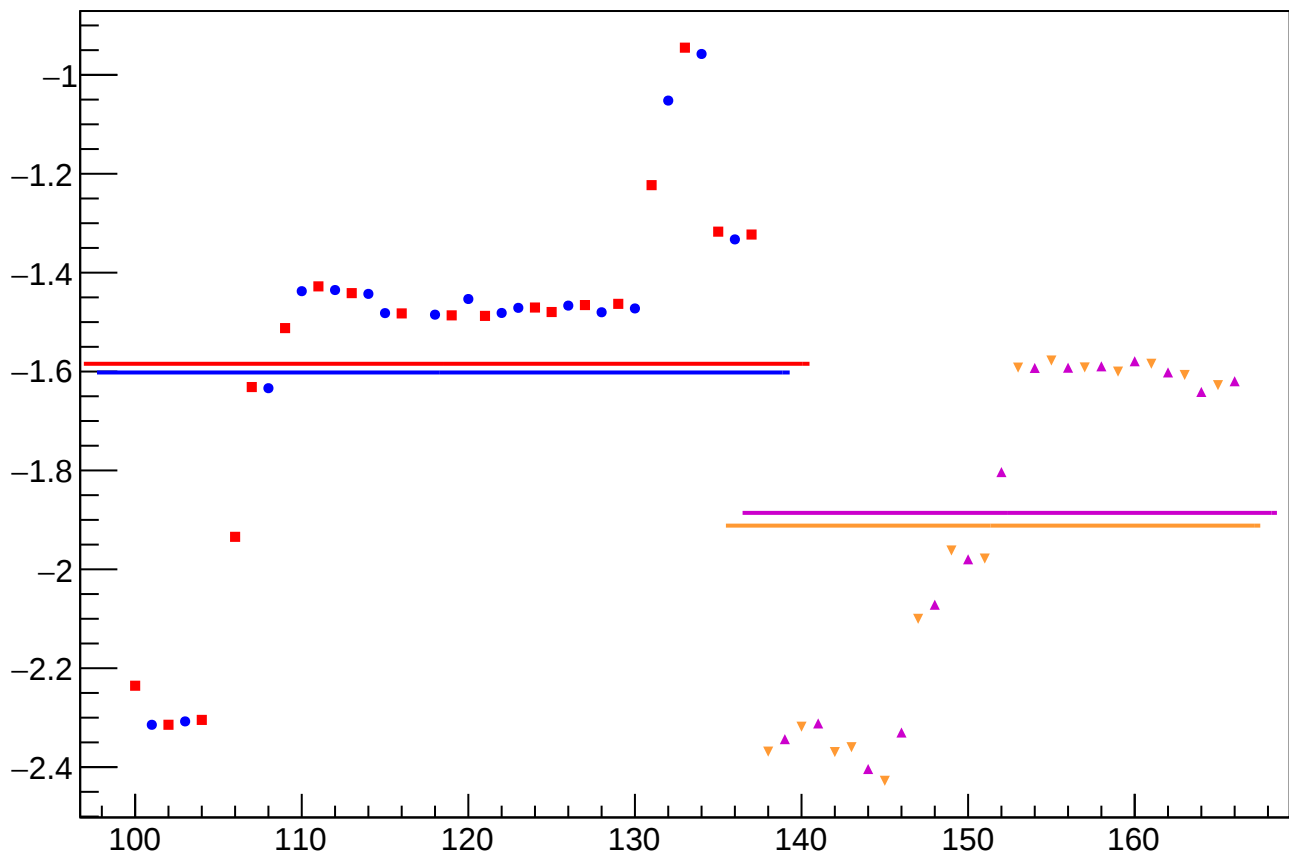
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF : 217578.3/30

Out: 0.007+/-0.000 χ^2/NDF : 281147.7/33

All: 0.007+/-0.000 χ^2/NDF : 499567.9/64

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: -1.886+/-0.000 χ^2/NDF : 132994006429.5/13

Left: -1.899+/-0.000 χ^2/NDF : 278449908067.5/28

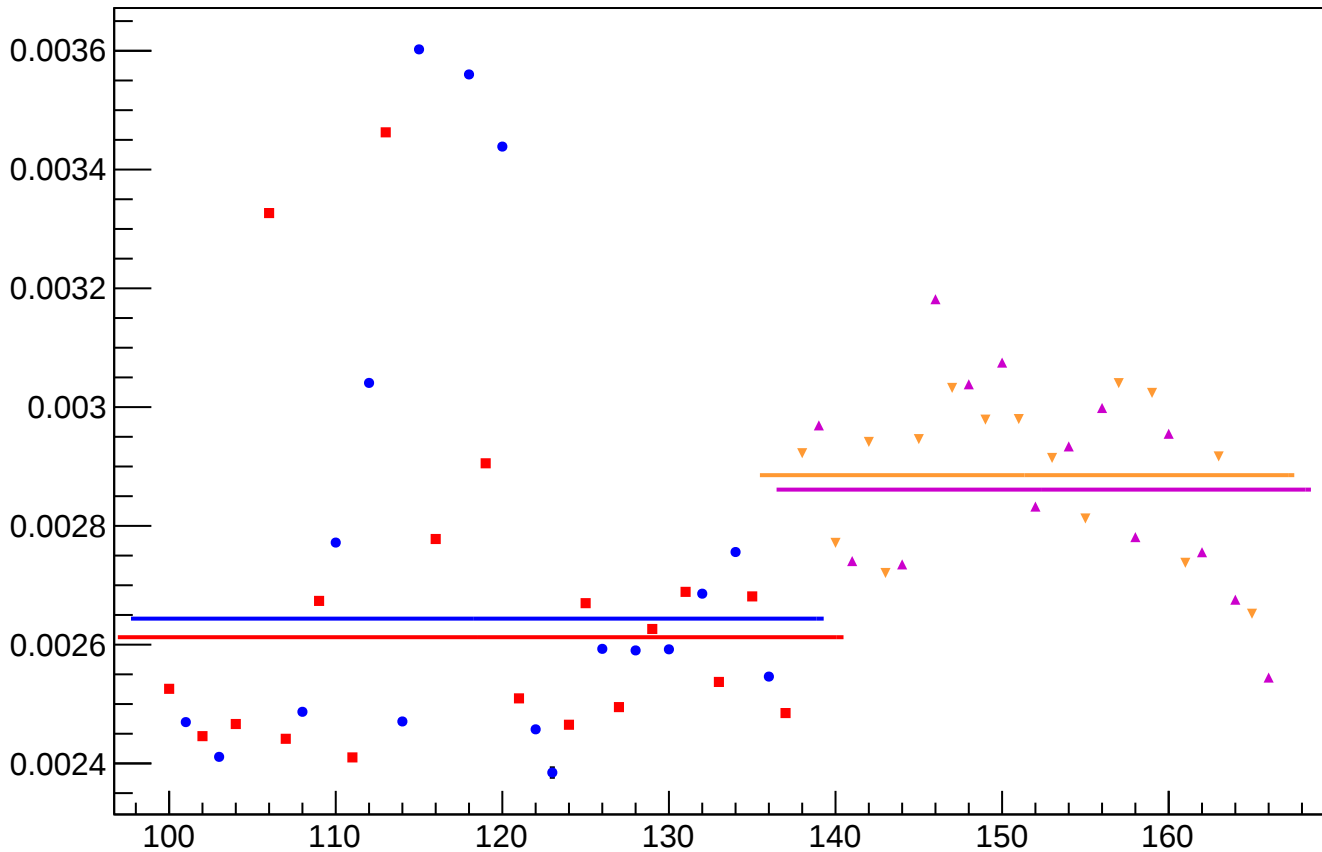
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.767+/-0.000 χ^2/NDF : 315417718437.7/30

Out: -1.768+/-0.000 χ^2/NDF : 347350760179.0/33

All: -1.768+/-0.000 χ^2/NDF : 662768614616.7

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 : 67183.8/13

Left: 0.003+/-0.000 χ^2/NDF : 104166.6/28

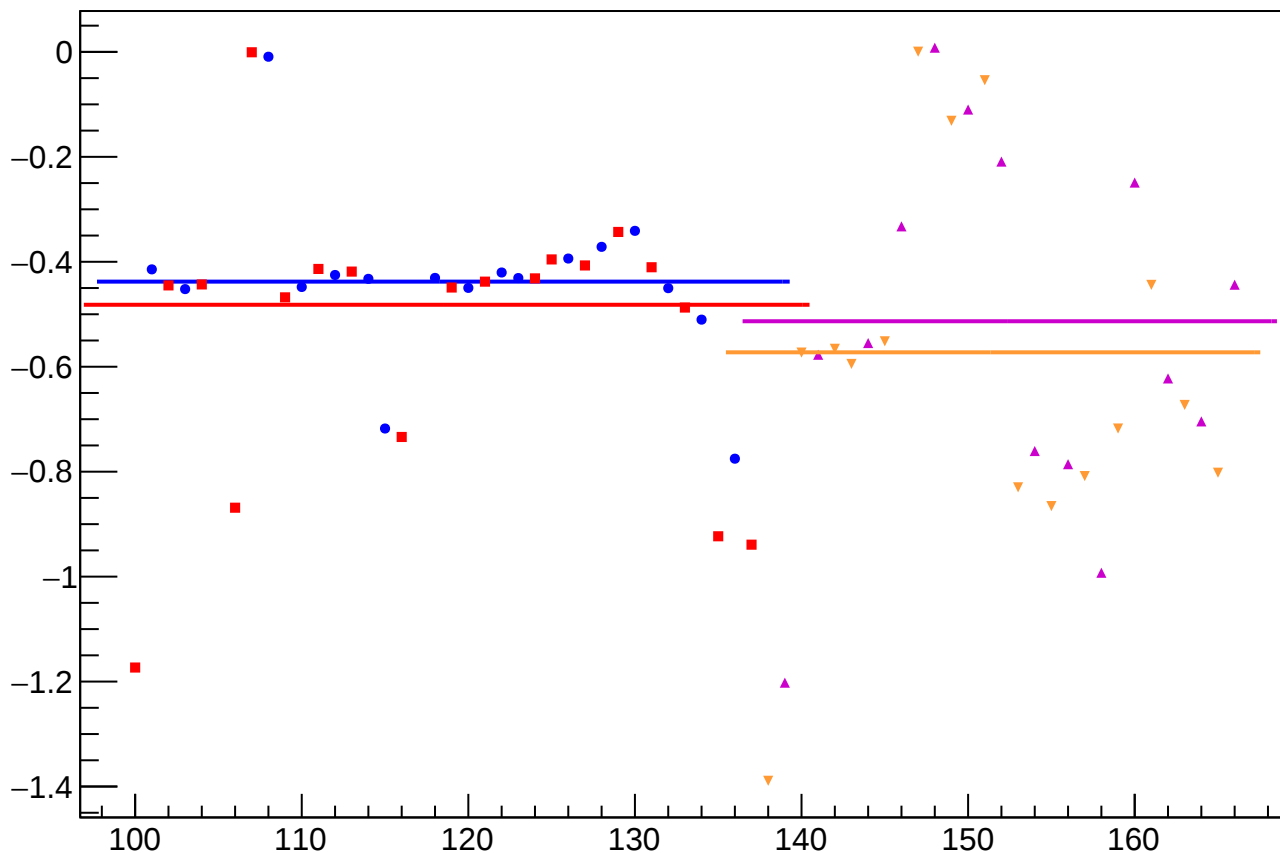
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF : 268000.0/30

Out: 0.003+/-0.000 χ^2/NDF : 223172.7/33

All: 0.003+/-0.000 χ^2/NDF : 491226.9/64

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 ± 0.000 $\chi^2/\text{NDF}: 1462454117.6/16$

Left Out: -0.573 ± 0.000 $\chi^2/\text{NDF}: 7814527573.9/14$

Right Out: -0.482 ± 0.000 $\chi^2/\text{NDF}: 2694625740.7/18$

Left In: -0.513 ± 0.000 $\chi^2/\text{NDF}: 7109778449.0/13$

Left: -0.543 ± 0.000 $\chi^2/\text{NDF}: 15039999012.7/28$

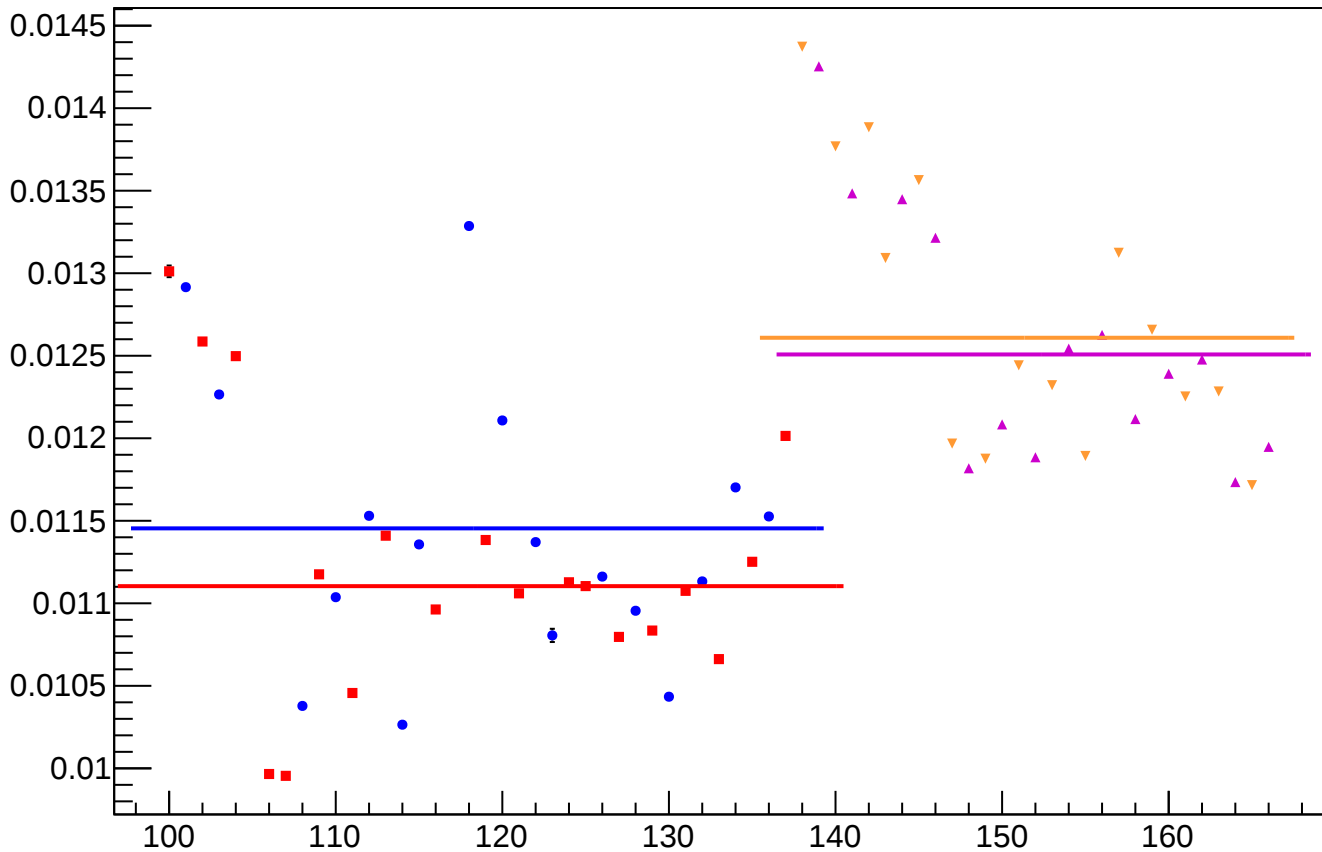
Right: -0.461 ± 0.000 $\chi^2/\text{NDF}: 4208237576.2/35$

In: -0.481 ± 0.000 $\chi^2/\text{NDF}: 8733081408.0/30$

Out: -0.531 ± 0.000 $\chi^2/\text{NDF}: 10758620586.3/33$

All: -0.507 ± 0.000 $\chi^2/\text{NDF}: 19639194624.8/76$

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 : 61046.4/13

Left: 0.013+/-0.000 χ^2/NDF : 135941.0/28

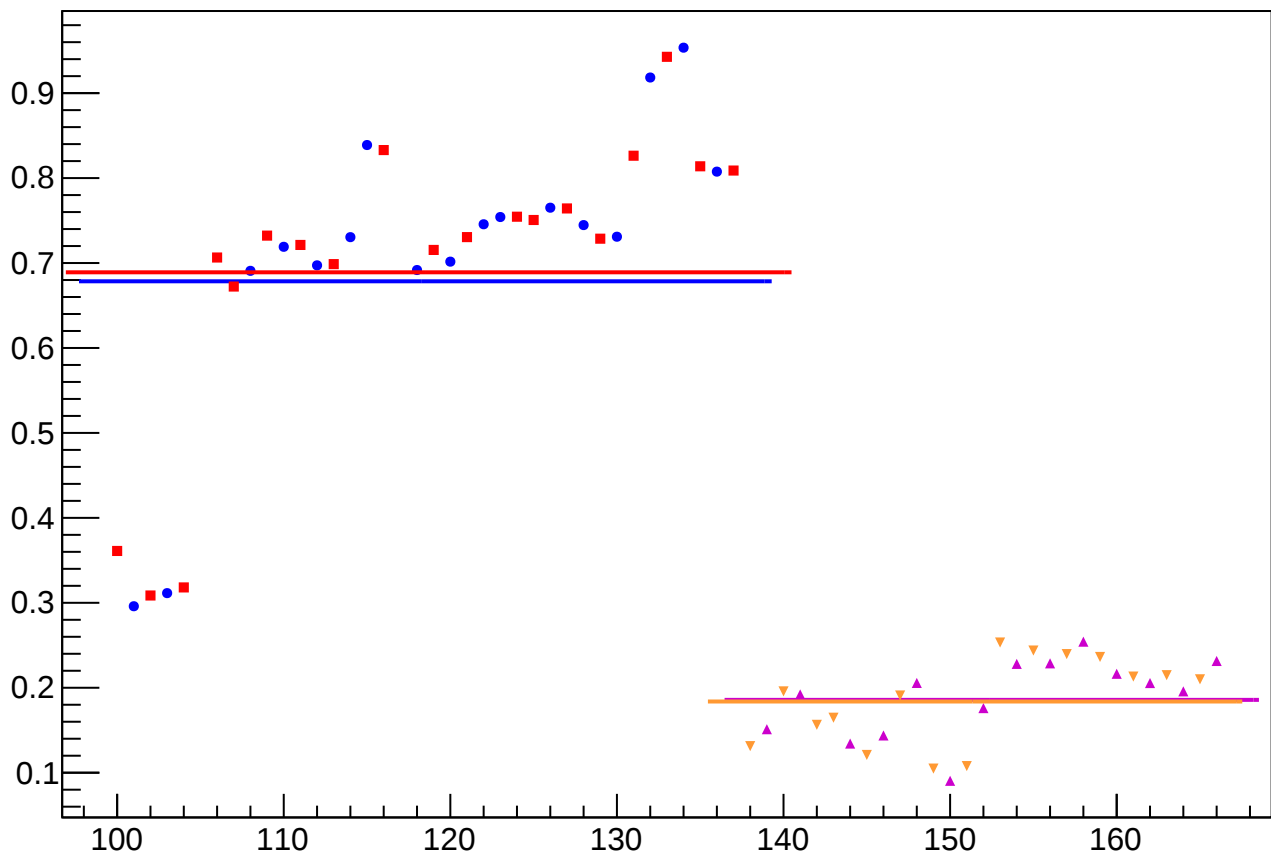
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 188390.1/30

Out: 0.012+/-0.000 χ^2/NDF : 267903.2/33

All: 0.012+/-0.000 χ^2/NDF : 458624.7/64

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2 /NDF: 38506442638.3/16

Left Out: 0.184 $\pm$ 0.000 χ^2 /NDF: 5403747789.6/14

Right Out: 0.689 $\pm$ 0.000 χ^2 /NDF: 35358596931.1/18

Left In: 0.186 $\pm$ 0.000 χ^2 /NDF: 4391707353.0/13

Left: 0.185 $\pm$ 0.000 χ^2 /NDF: 9799450064.6/28

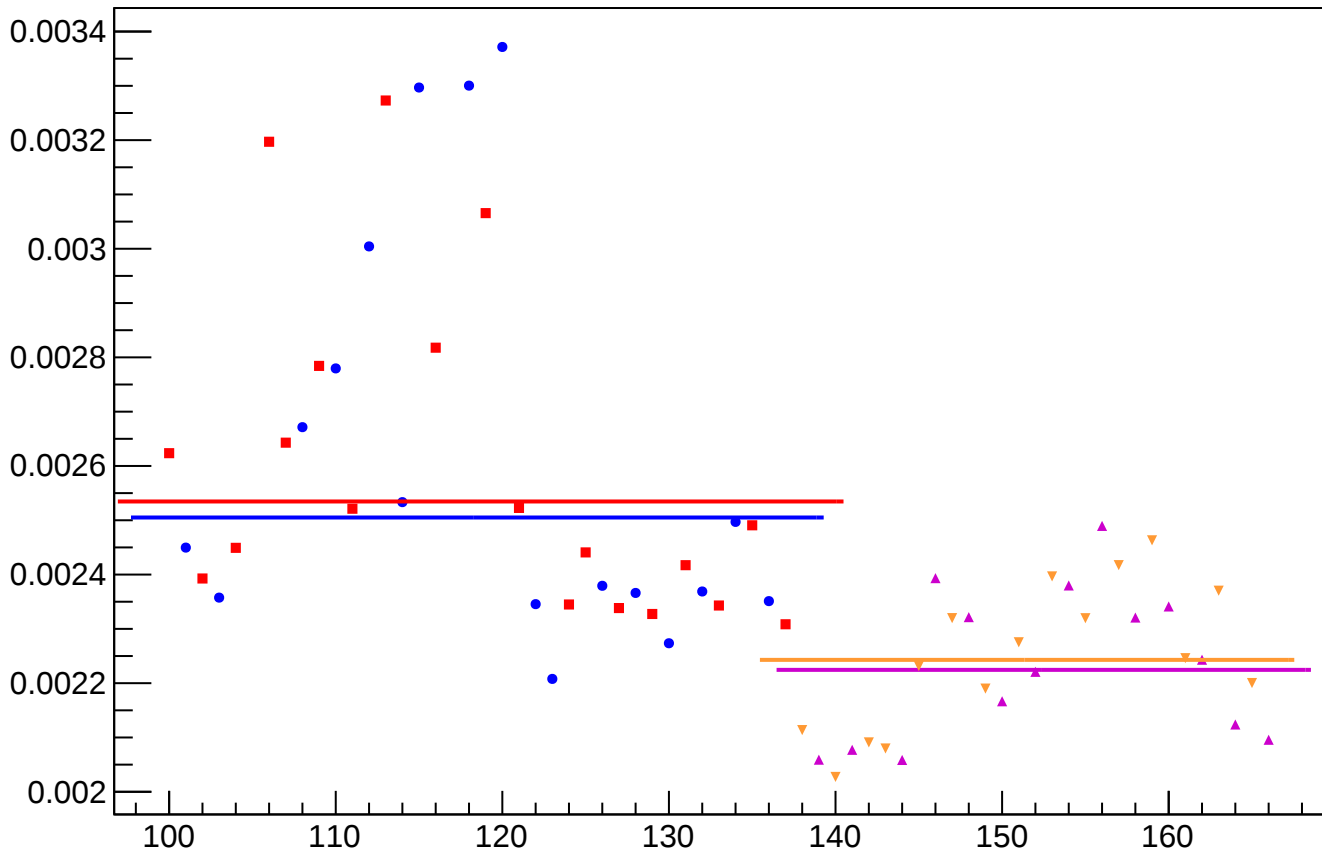
Right: 0.684 $\pm$ 0.000 χ^2 /NDF: 73922739006.0/35

In: 0.343 $\pm$ 0.000 χ^2 /NDF: 210654130848.4/30

Out: 0.348 $\pm$ 0.000 χ^2 /NDF: 220652334691.9/33

All: 0.345 $\pm$ 0.000 χ^2 /NDF: 431340389371.9

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 : 78449.4/13

Left: 0.002+/-0.000 χ^2/NDF : 152088.8/28

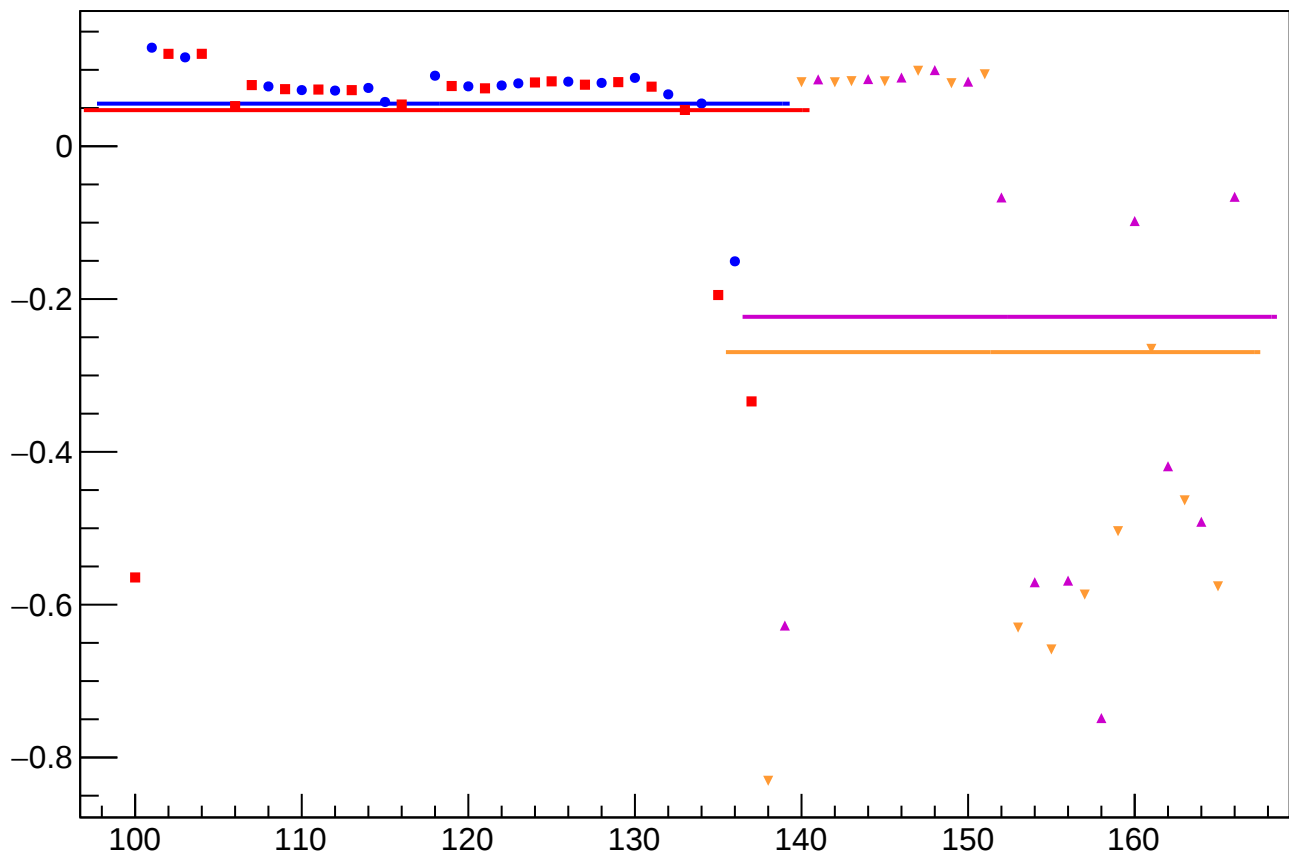
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF : 362754.3/30

Out: 0.002+/-0.000 χ^2/NDF : 324425.4/33

All: 0.002+/-0.000 χ^2/NDF : 688931.1/64

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000 χ^2 /NDF: 423003688.1/16

Left Out: -0.269 $\pm$ 0.000 χ^2 /NDF: 9187071025.0/14

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 819588537.2/18

Left In: -0.223 $\pm$ 0.000 χ^2 /NDF: 7787023266.1/13

Left: -0.246 $\pm$ 0.000 χ^2 /NDF: 17060052458.1/28

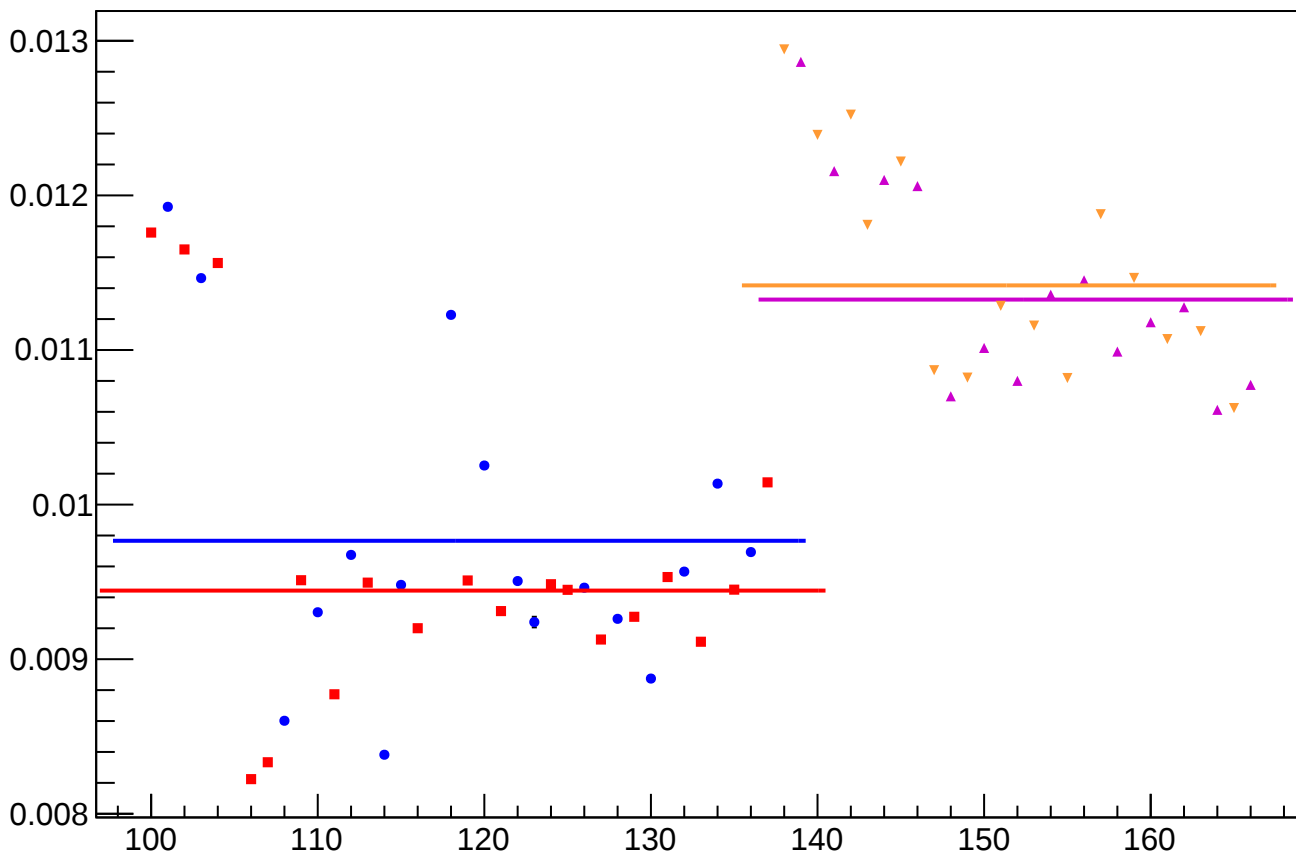
Right: 0.051 $\pm$ 0.000 χ^2 /NDF: 1245197626.4/35

In: -0.096 $\pm$ 0.000 χ^2 /NDF: 11065698513.0/30

Out: -0.114 $\pm$ 0.000 χ^2 /NDF: 13968552757.6/33

All: -0.105 $\pm$ 0.000 χ^2 /NDF: 25060305620.3/66

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 : 58556.6/13

Left: 0.011+/-0.000 χ^2/NDF : 126150.2/28

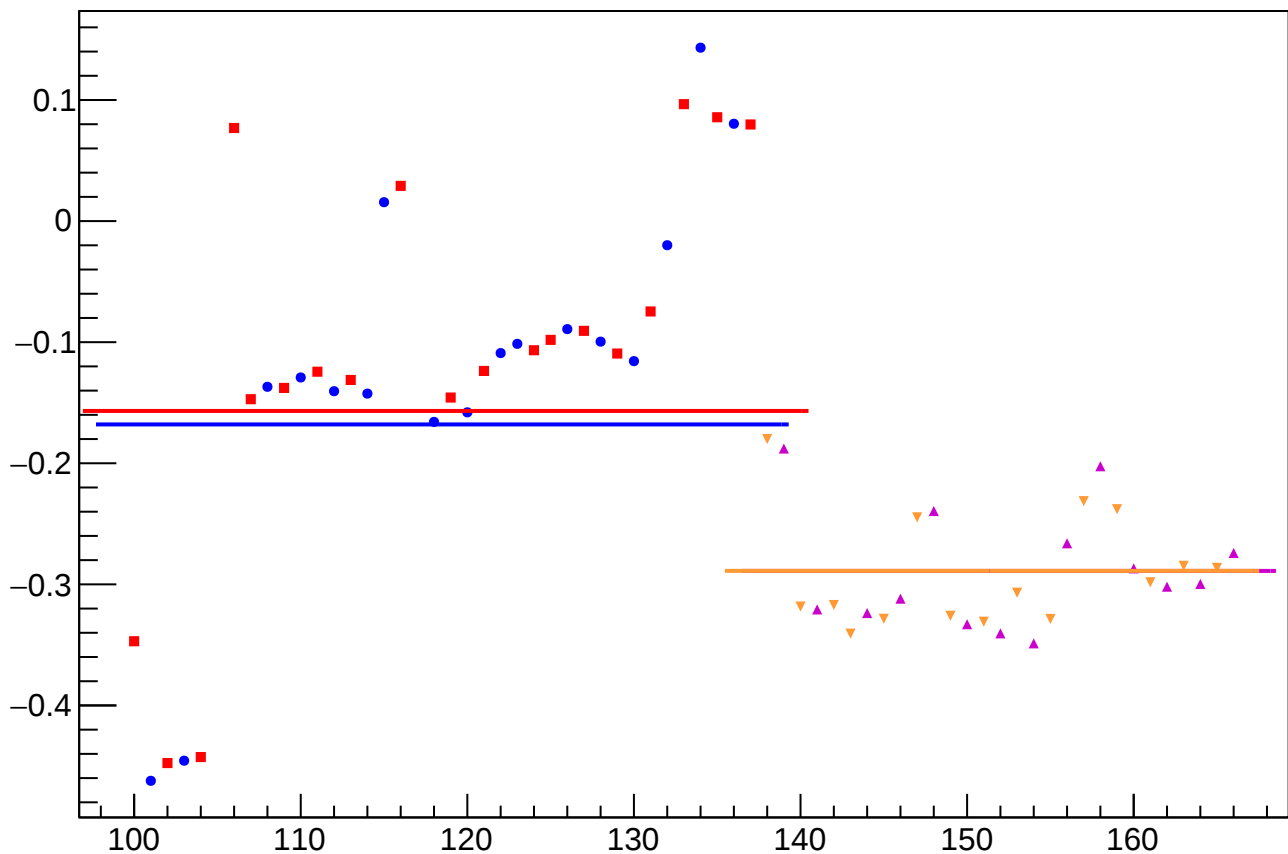
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF : 353810.7/30

Out: 0.010+/-0.000 χ^2/NDF : 485525.7/33

All: 0.011+/-0.000 χ^2/NDF : 843383.3/64

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.289+/-0.000 χ^2/NDF : 2669311667.0/14

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.289+/-0.000 χ^2/NDF : 3080307054.2/13

Left: -0.289+/-0.000 χ^2/NDF : 5749619692.5/28

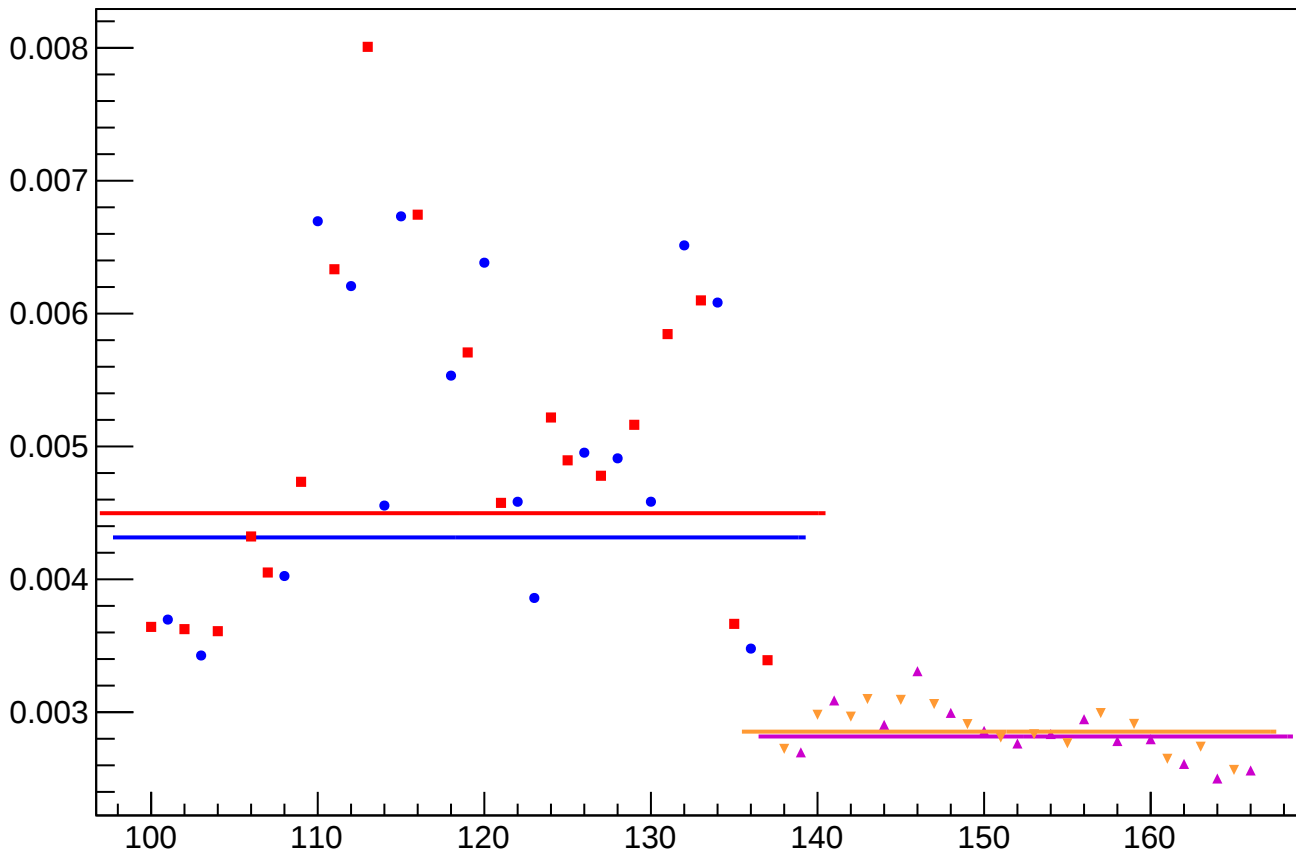
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.265+/-0.000 χ^2/NDF : 19092268090.2/30

Out: -0.264+/-0.000 χ^2/NDF : 18029409627.2/33

All: -0.264+/-0.000 χ^2/NDF : 37124830125.2/66

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 : 95272.2/13

Left: 0.003+/-0.000 χ^2/NDF : 159602.6/28

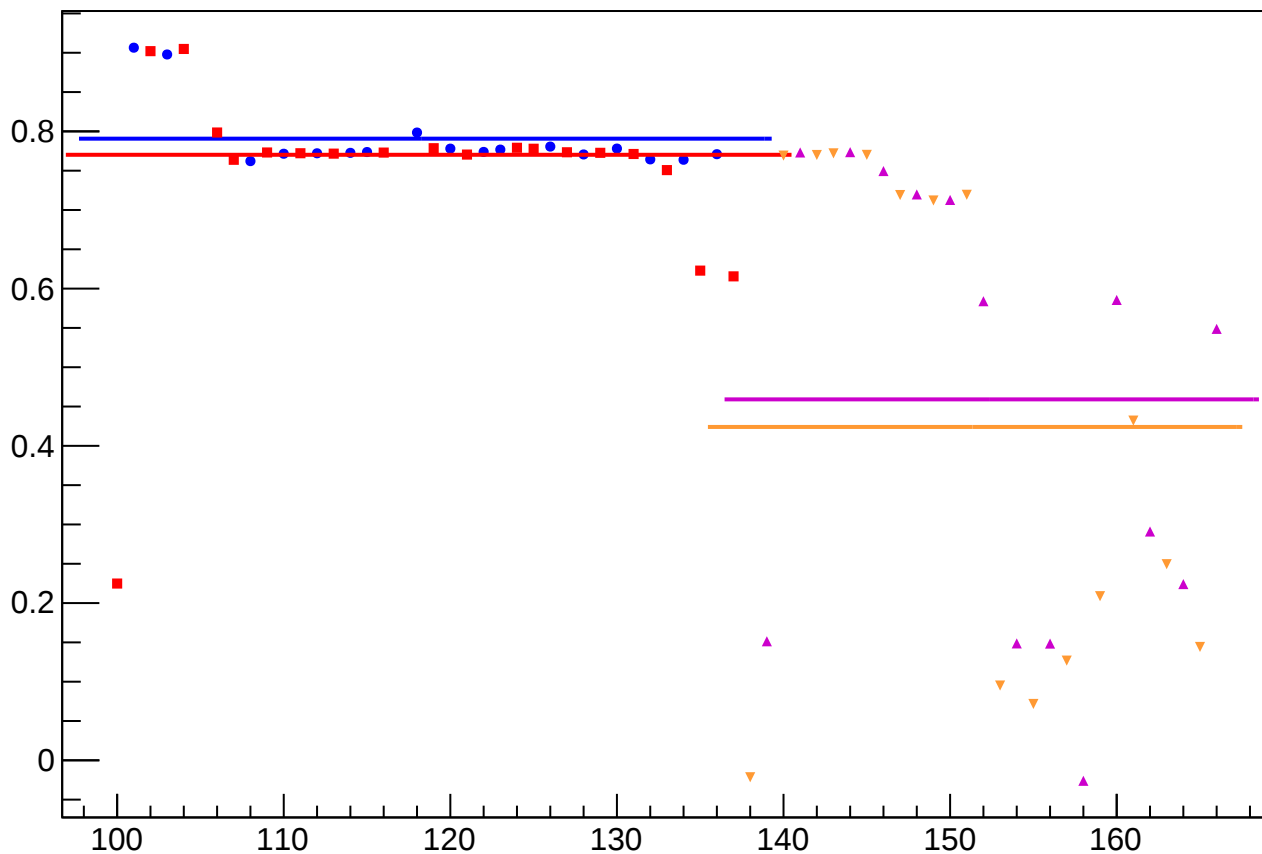
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF : 1844186.9/30

Out: 0.003+/-0.000 χ^2/NDF : 2055293.0/33

All: 0.003+/-0.000 χ^2/NDF : 3905696.3/64

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106705767.1/16

Left Out: 0.424 $\pm$ 0.000 χ^2 /NDF: 7648661123.9/14

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375442189.7/18

Left In: 0.459 $\pm$ 0.000 χ^2 /NDF: 6539058797.6/13

Left: 0.442 $\pm$ 0.000 χ^2 /NDF: 14239958893.2/28

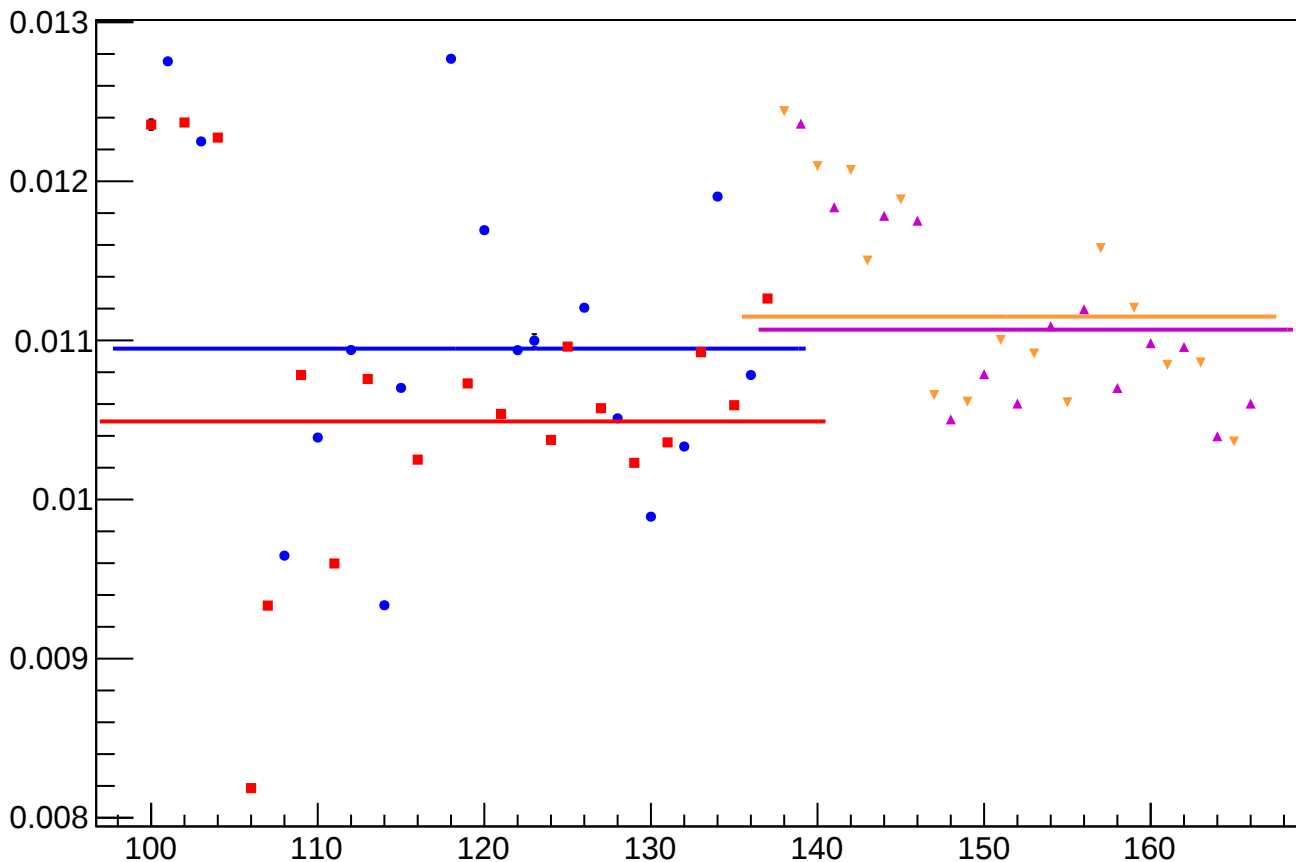
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494318002.1/35

In: 0.588 $\pm$ 0.000 χ^2 /NDF: 10262412087.3/30

Out: 0.571 $\pm$ 0.000 χ^2 /NDF: 12352272160.9/33

All: 0.579 $\pm$ 0.000 χ^2 /NDF: 22635513125.3/66

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 : 50119.2/13

Left: 0.011+/-0.000 χ^2/NDF : 108763.5/28

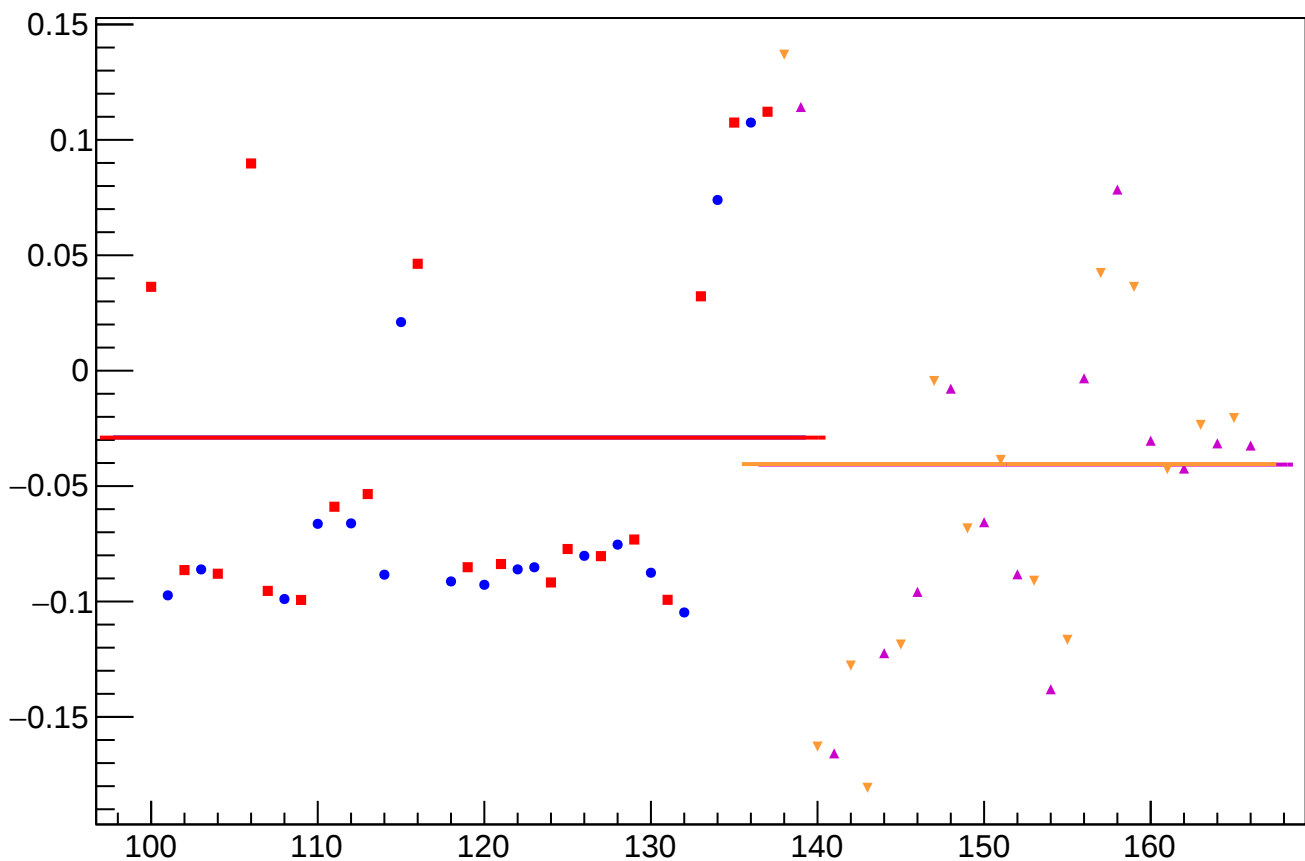
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 149607.8/30

Out: 0.011+/-0.000 χ^2/NDF : 208832.3/33

All: 0.011+/-0.000 χ^2/NDF : 361704.5/64

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 : 12507446833.9/28

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 : 8316266656.4/30

Out: -0.038+/-0.000

χ^2/NDF : 8813491421.0/33

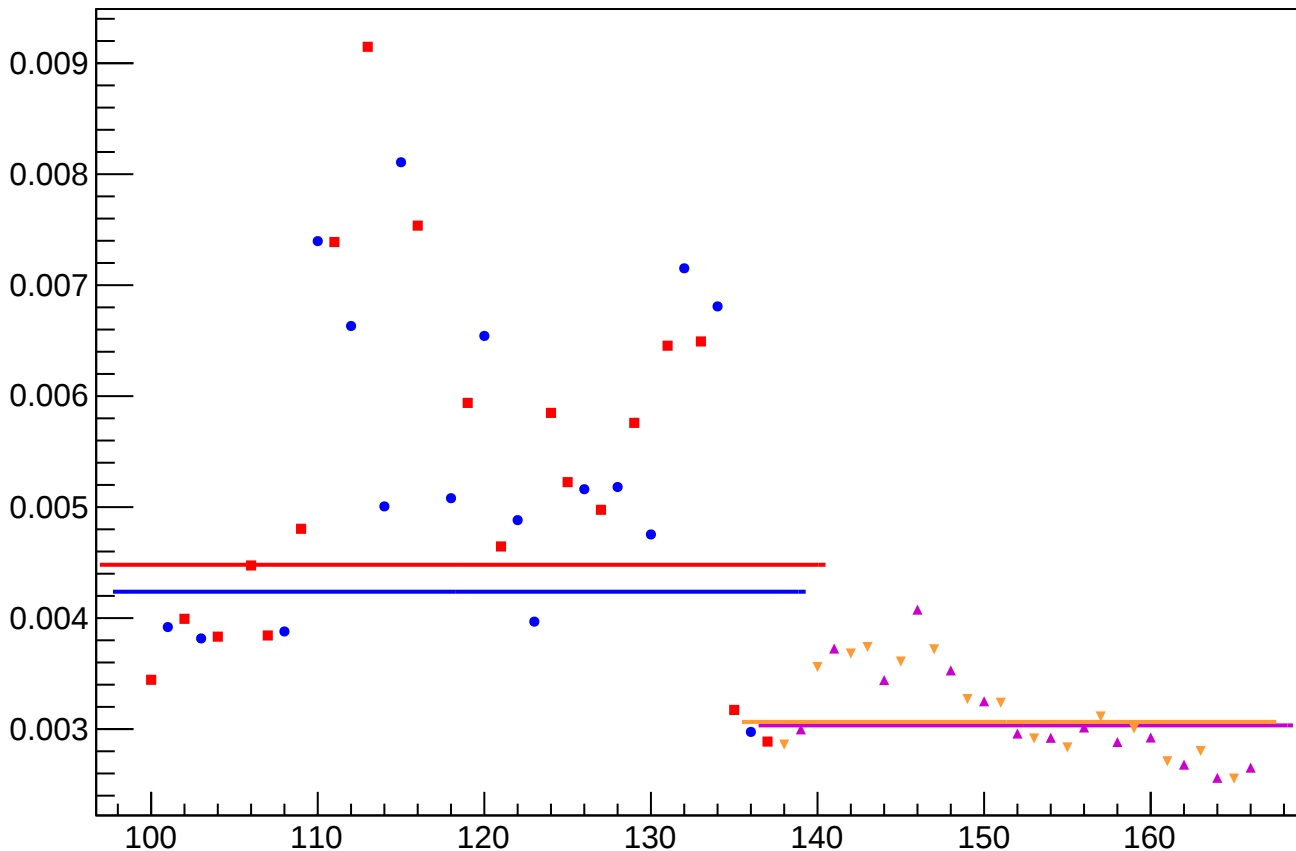
Left In: -0.041+/-0.000

χ^2/NDF : 5837501751.5/13

All: -0.038+/-0.000

χ^2/NDF : 17129761251.9/...

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 : 294066.6/13

Left: 0.003+/-0.000 χ^2/NDF : 572888.4/28

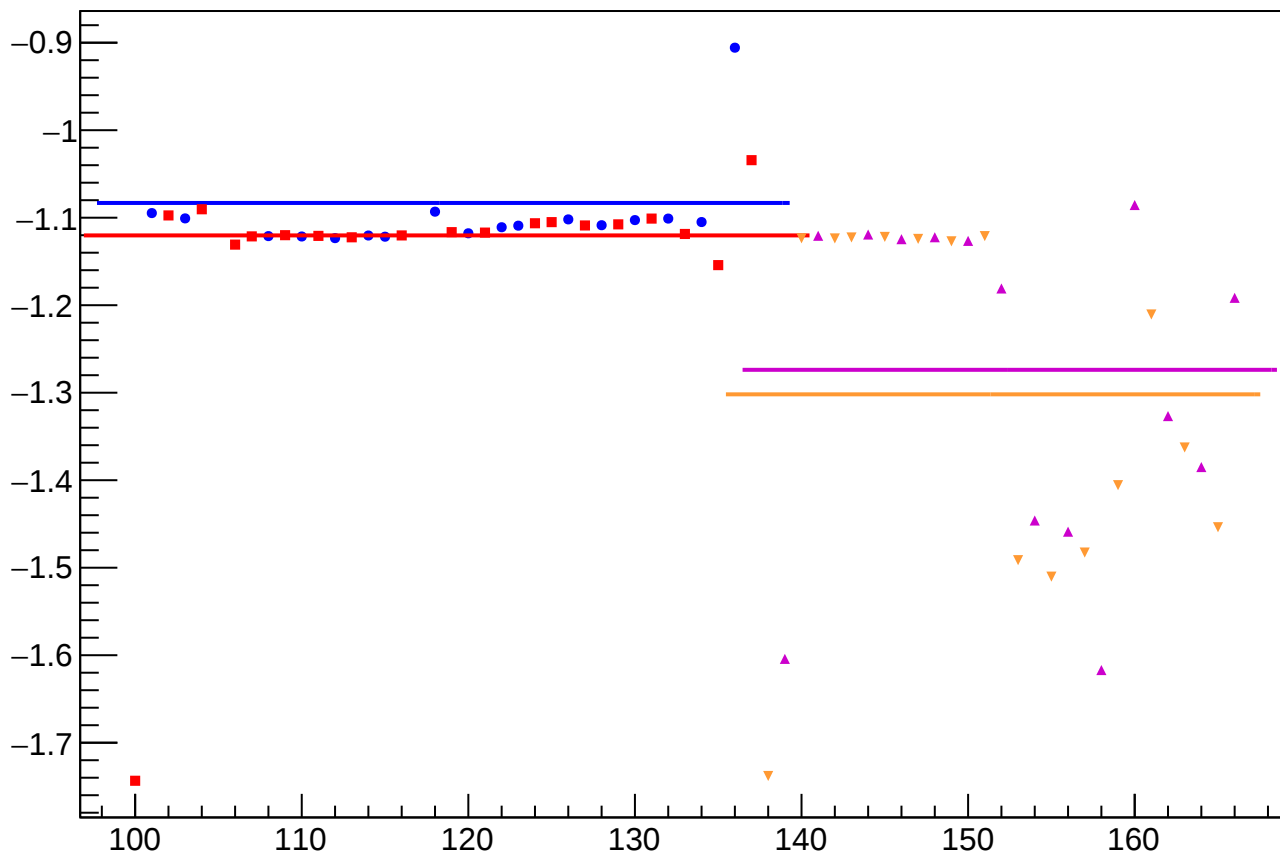
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1866002.4/30

Out: 0.003+/-0.000 χ^2/NDF : 2182185.6/33

All: 0.003+/-0.000 χ^2/NDF : 4054393.0/64

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: -1.274+/-0.000 χ^2/NDF : 3473896398.9/13

Left: -1.288+/-0.000 χ^2/NDF : 7267023776.9/28

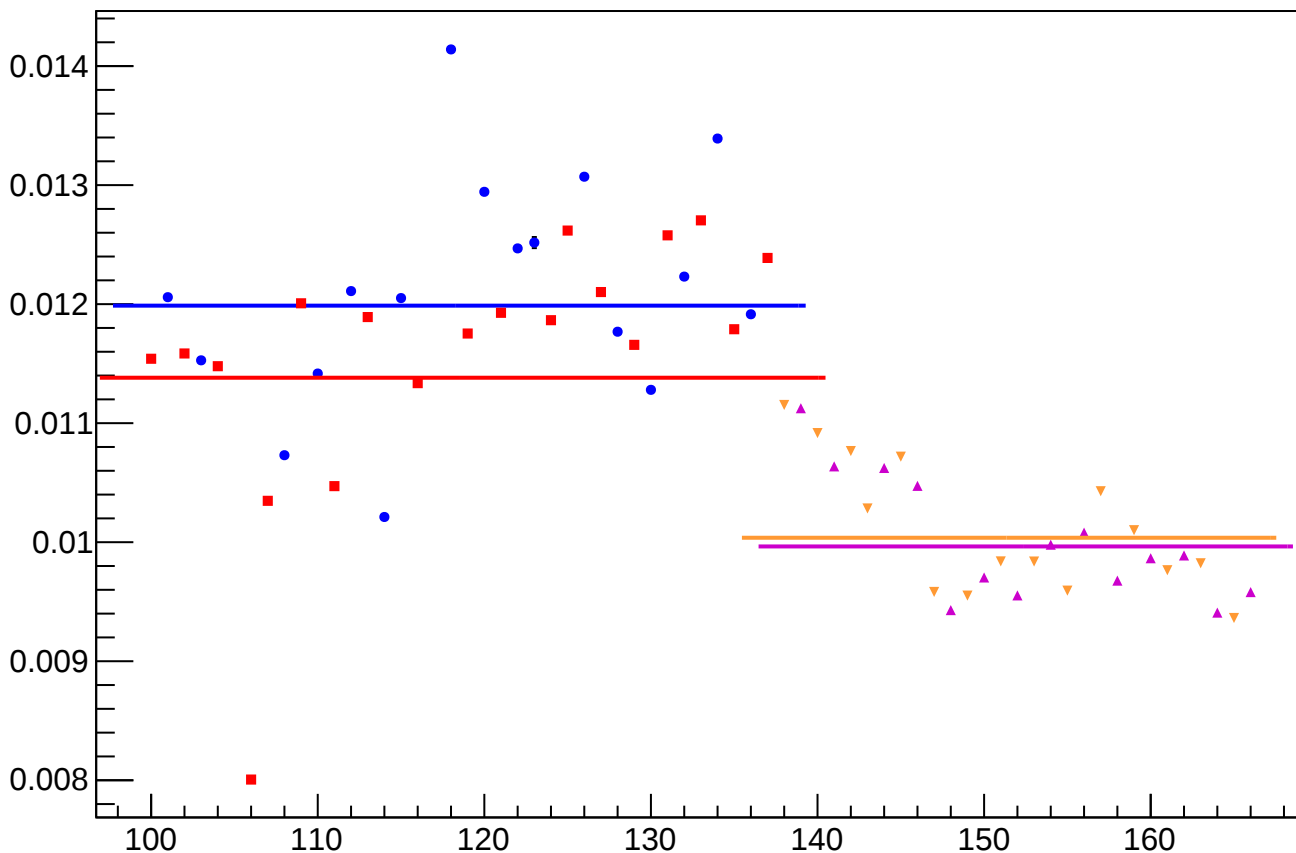
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.217+/-0.000 χ^2/NDF : 4818775490.0/30

Out: -1.241+/-0.000 χ^2/NDF : 5134424710.4/33

All: -1.229+/-0.000 χ^2/NDF : 9999318657.3/6

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 60402.0/16

Left Out: 0.010+/-0.000 χ^2/NDF :55763.3/14

Right Out: 0.011+/-0.000 χ^2/NDF : 154529.8/18

Left In: 0.010+/-0.000 χ^2/NDF :47605.3/13

Left: 0.010+/-0.000 χ^2/NDF : 103930.8/28

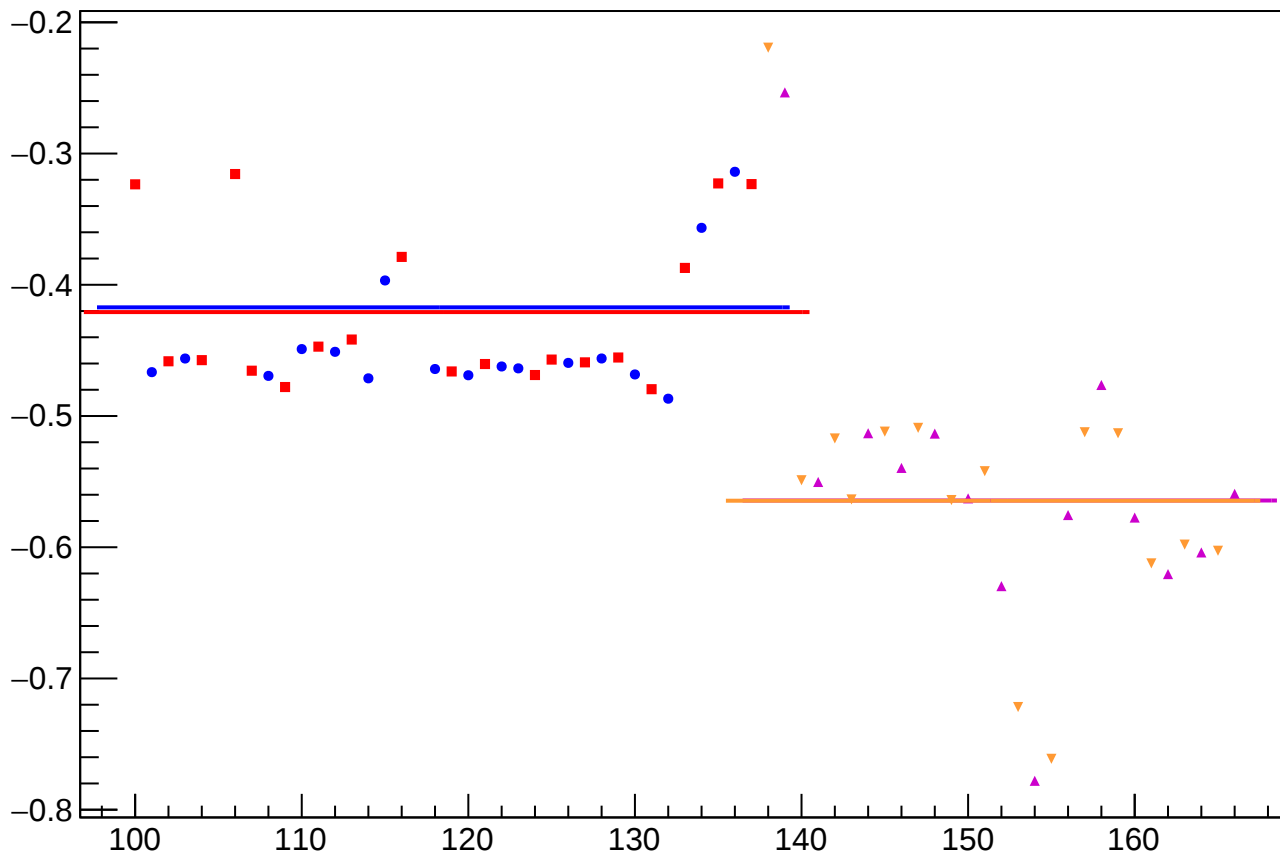
Right: 0.012+/-0.000 χ^2/NDF : 232714.9/35

In: 0.011+/-0.000 χ^2/NDF :365029.0/30

Out: 0.010+/-0.000 χ^2/NDF :337625.0/33

All: 0.011+/-0.000 χ^2/NDF : 703728.3/64

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: -0.564+/-0.000 χ^2/NDF : 10406950761.5/13

Left: -0.564+/-0.000 χ^2/NDF : 23483311738.0/28

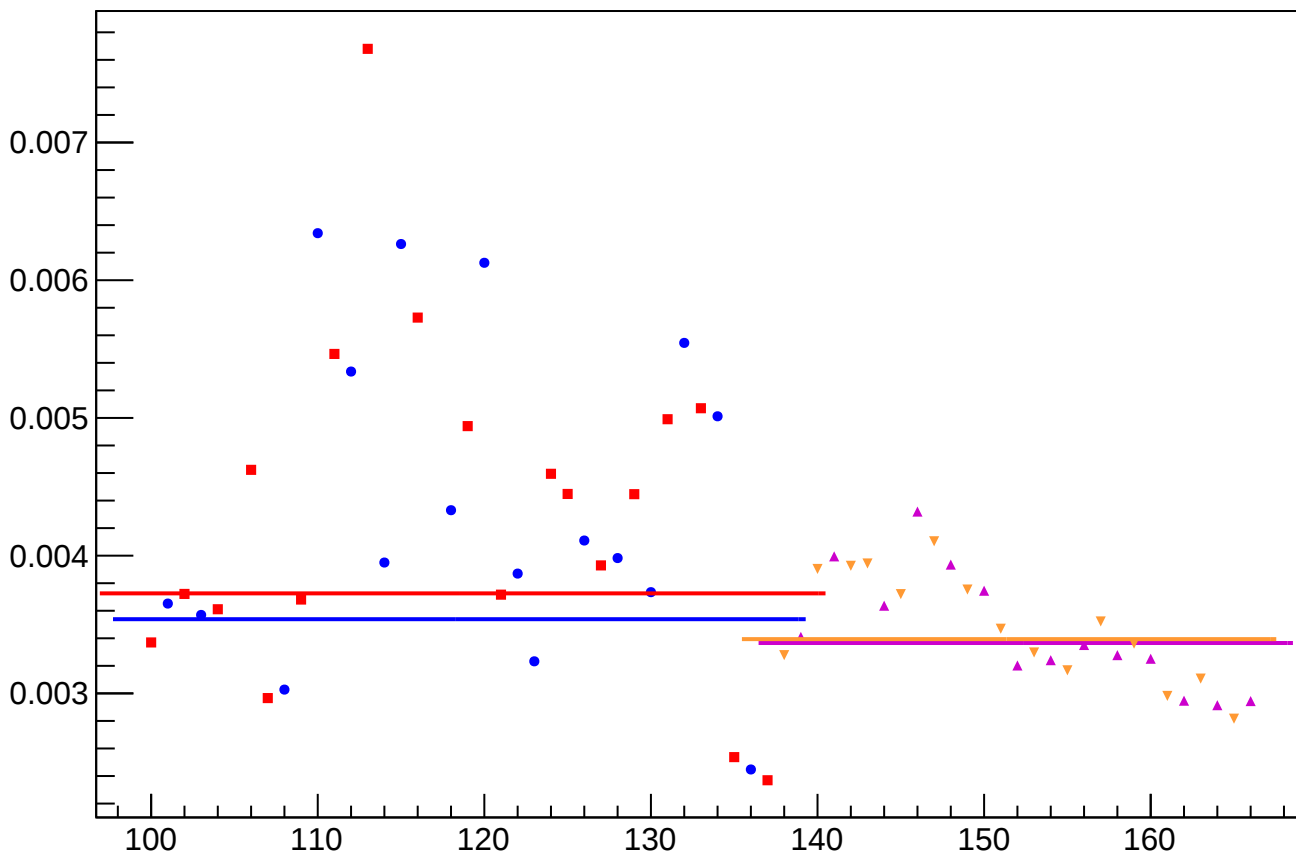
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.516+/-0.000 χ^2/NDF : 18745750902.6/30

Out: -0.518+/-0.000 χ^2/NDF : 20622782972.5/33

All: -0.517+/-0.000 χ^2/NDF : 39372241048.5/66

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 :246317.7/13

Left: 0.003+/-0.000 χ^2/NDF : 477734.0/28

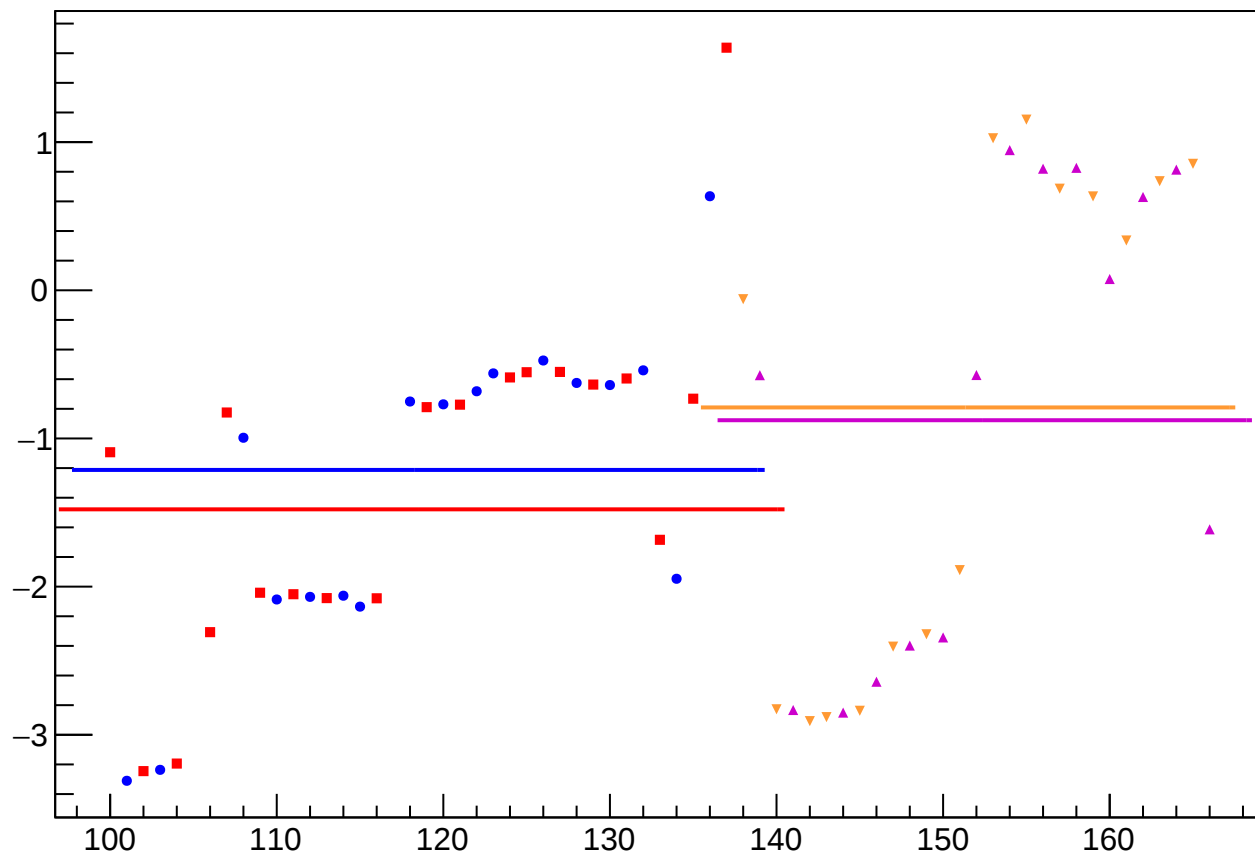
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF :1099846.1/30

Out: 0.004+/-0.000 χ^2/NDF :1192209.1/33

All: 0.003+/-0.000 χ^2/NDF : 2300092.5/64

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: -0.877+/-0.000 χ^2/NDF : 4250887926.5/13

Left: -0.833+/-0.000 χ^2/NDF : 9366358374.1/28

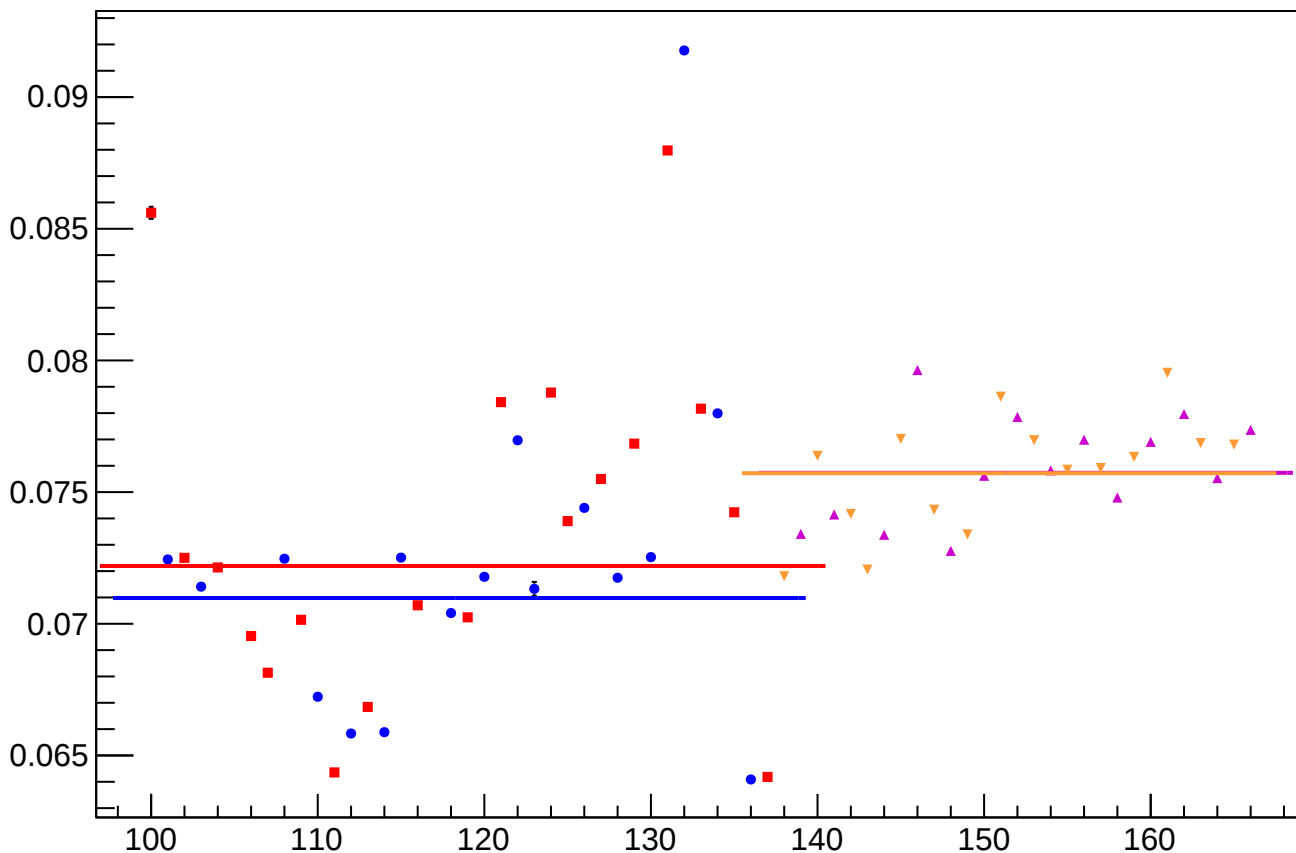
Right: -1.347+/-0.000 χ^2/NDF : 3617796481.7/35

In: -1.016+/-0.000 χ^2/NDF : 6329860152.4/30

Out: -1.074+/-0.000 χ^2/NDF : 7057762833.5/33

All: -1.045+/-0.000 χ^2/NDF : 13393123011.8/66

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 : 13948.0/13

Left: 0.076+/-0.000 χ^2/NDF : 31462.8/28

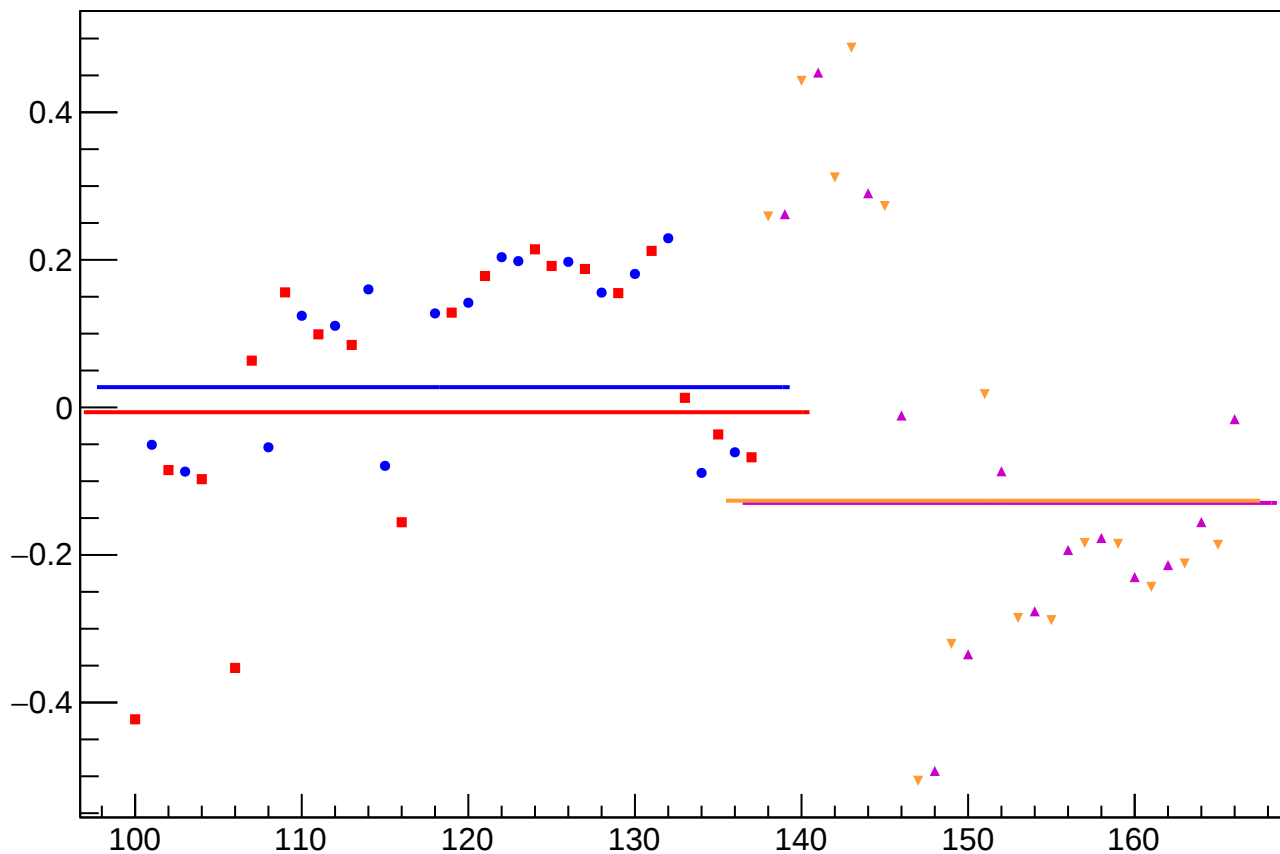
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 126128.4/30

Out: 0.074+/-0.000 χ^2/NDF : 110198.7/33

All: 0.074+/-0.000 χ^2/NDF : 237116.5/64

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562337631.4/16

Left: -0.128+/-0.000

χ^2/NDF : 24137059670.4/28

Left Out: -0.126+/-0.000

χ^2/NDF : 13748796297.1/14

Right: 0.010+/-0.000

χ^2/NDF : 1787030042.0/35

Right Out: -0.007+/-0.000

χ^2/NDF : 1199278894.0/18

In: -0.105+/-0.000

χ^2/NDF : 11858341394.6/30

Out: -0.107+/-0.000

χ^2/NDF : 15483858010.3/33

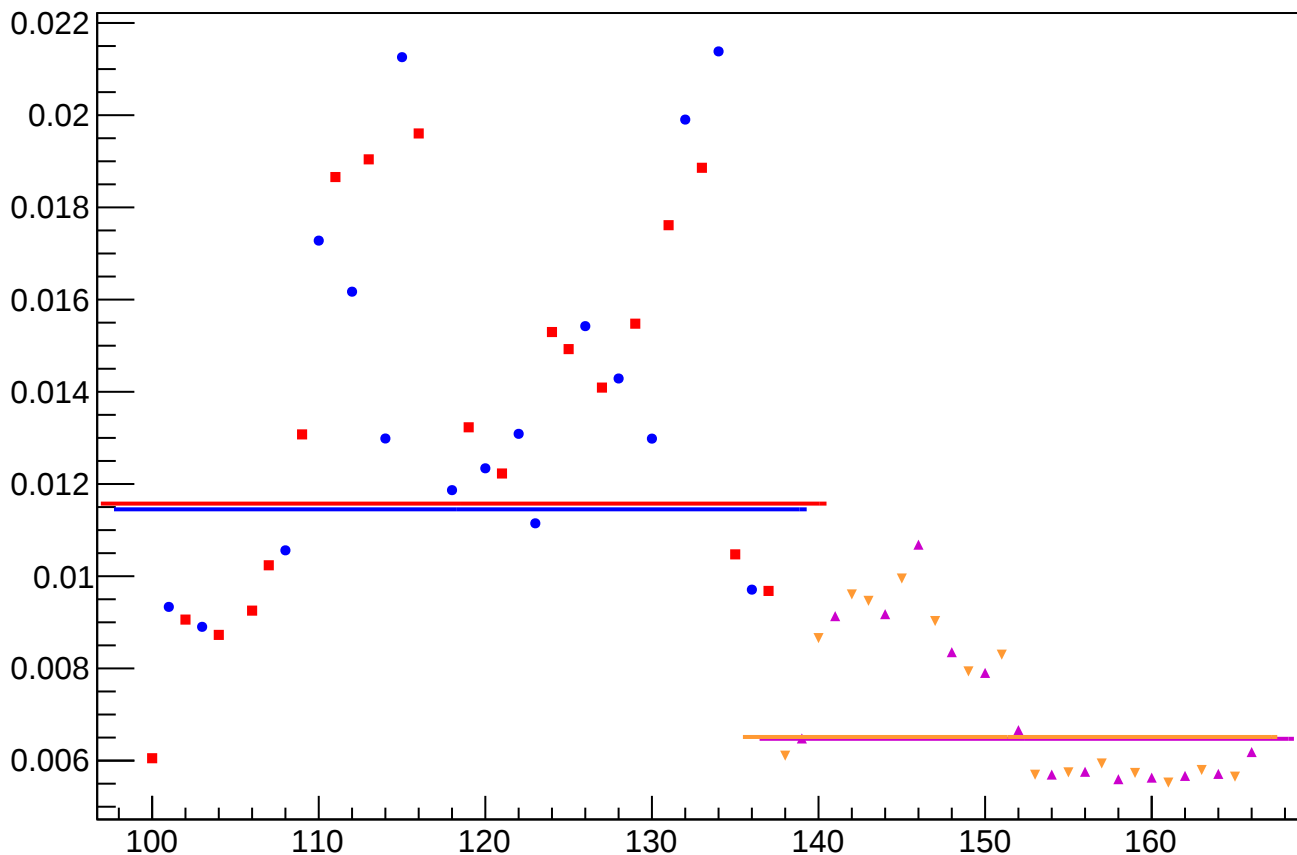
Left In: -0.129+/-0.000

χ^2/NDF : 10387194593.3/13

All: -0.106+/-0.000

χ^2/NDF : 27343220210.3/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 679628.0/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:872919.5/14

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 997161.1/18

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:780311.3/13

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 1653601.8/28

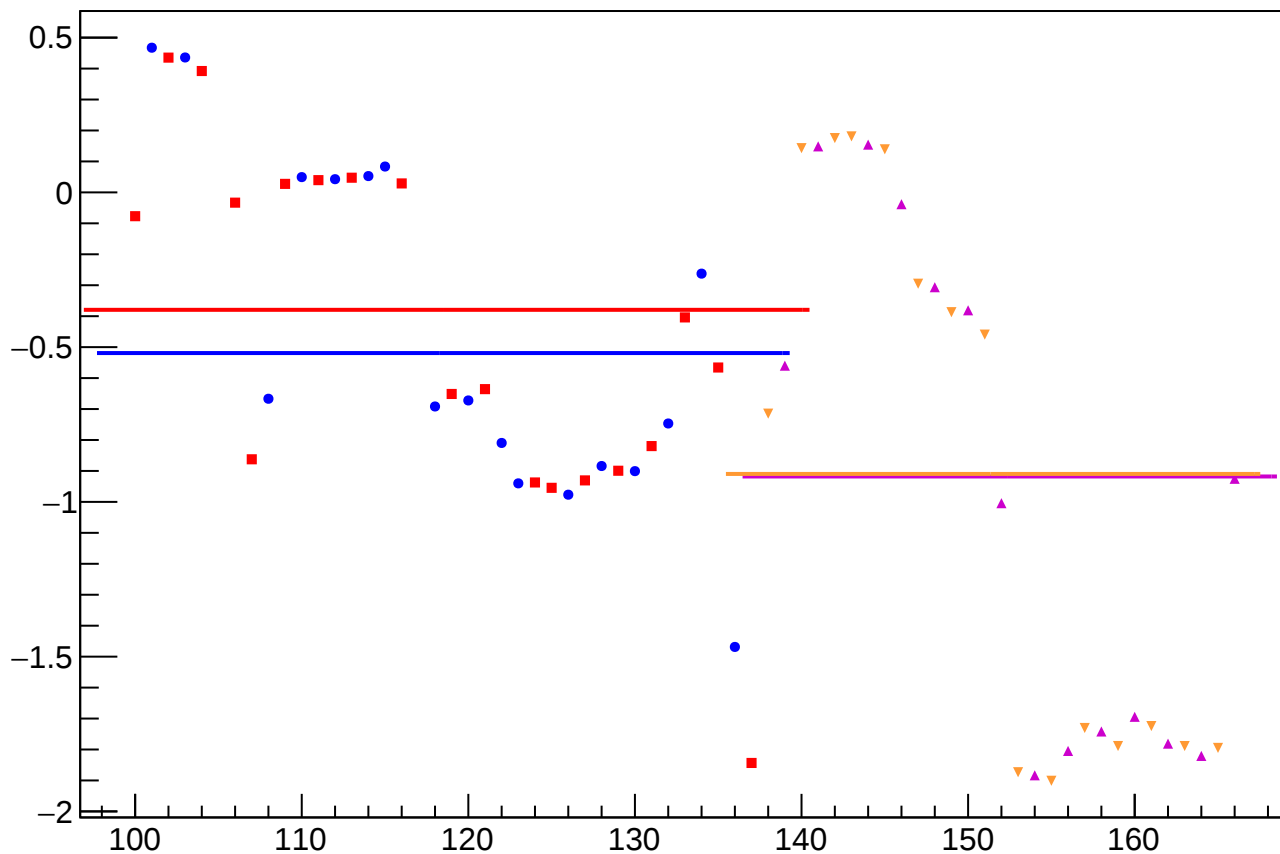
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 1677468.5/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:3289294.5/30

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:3779574.5/33

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 7069793.3/64

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 : 855521134.7/13

Left: -0.914 ± 0.000 χ^2/NDF : 1866370816.9/28

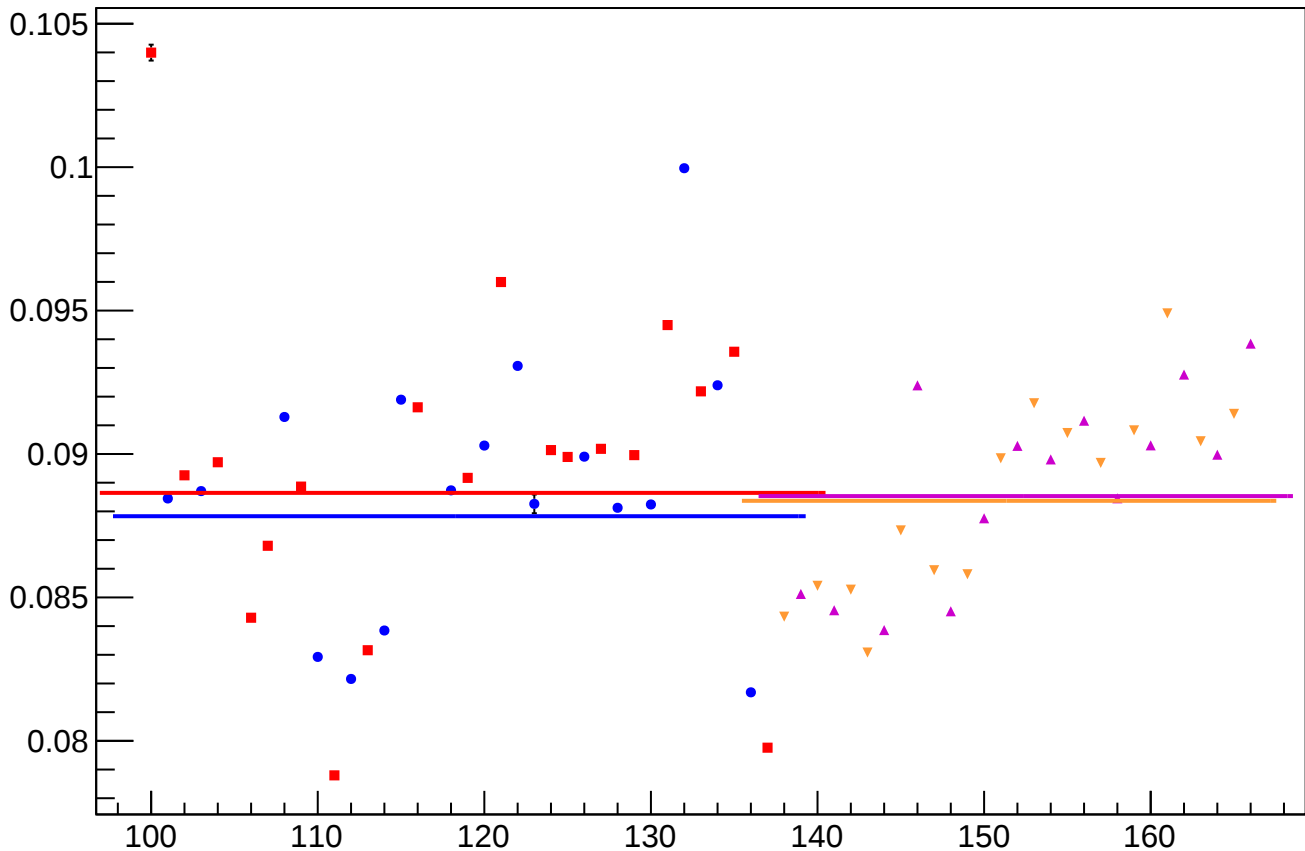
Right: -0.448 ± 0.000 χ^2/NDF : 616632603.2/35

In: -0.764 ± 0.000 χ^2/NDF : 1279365950.0/30

Out: -0.703 ± 0.000 χ^2/NDF : 1434296069.0/33

All: -0.733 ± 0.000 χ^2/NDF : 2717830175.9/6

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 34954.4/16

Left Out: 0.088+/-0.000 χ^2/NDF : 29361.9/14

Right Out: 0.089+/-0.000 χ^2/NDF : 39722.9/18

Left In: 0.089+/-0.000 χ^2/NDF : 27507.1/13

Left: 0.088+/-0.000 χ^2/NDF : 56906.6/28

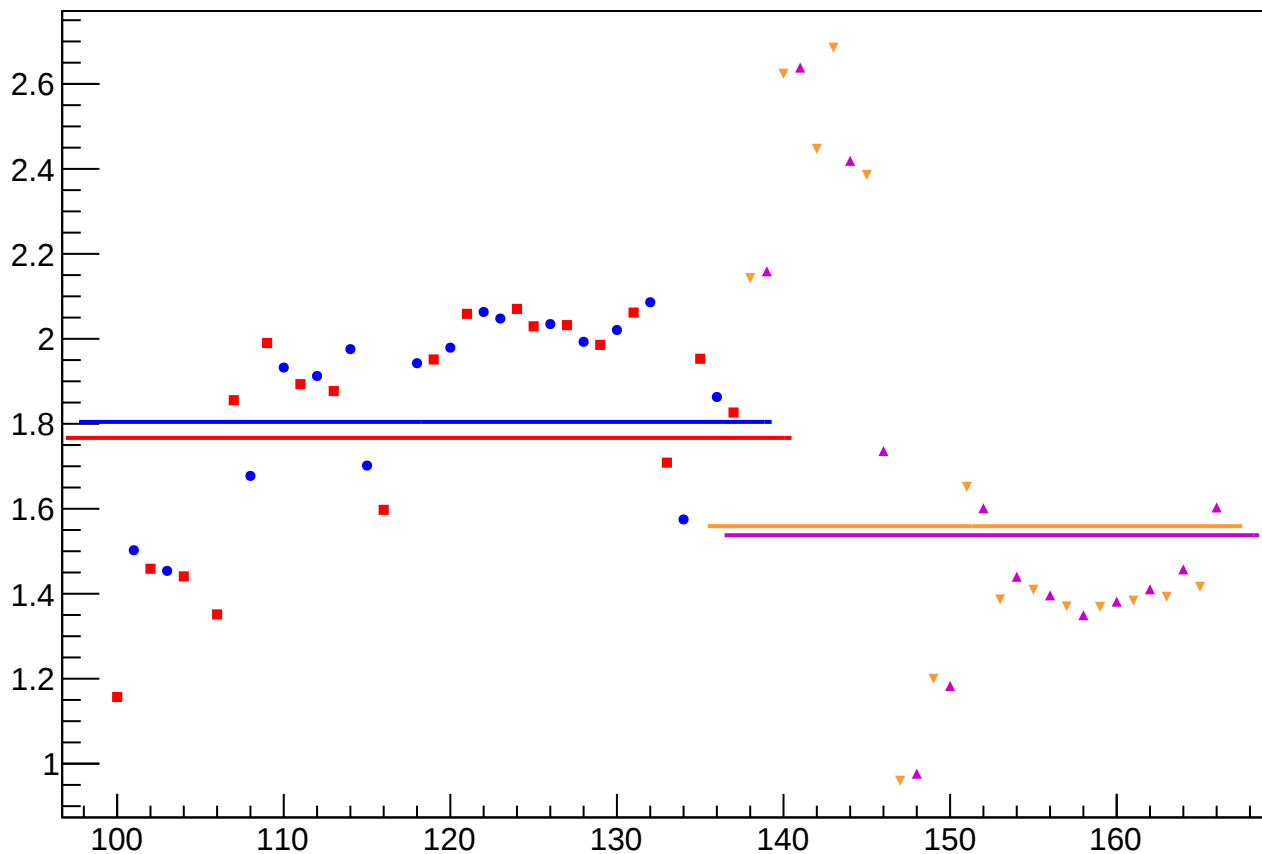
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF : 62984.2/30

Out: 0.088+/-0.000 χ^2/NDF : 69169.0/33

All: 0.088+/-0.000 χ^2/NDF : 132258.3/64

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804+/-0.000 χ^2/NDF : 1156747883.2/16

Left Out: 1.559+/-0.000 χ^2/NDF : 23234801495.7/14

Right Out: 1.767+/-0.000 χ^2/NDF : 1709259284.5/18

Left In: 1.538+/-0.000 χ^2/NDF : 17900105005.3/13

Left: 1.548+/-0.000 χ^2/NDF : 41164396353.3/28

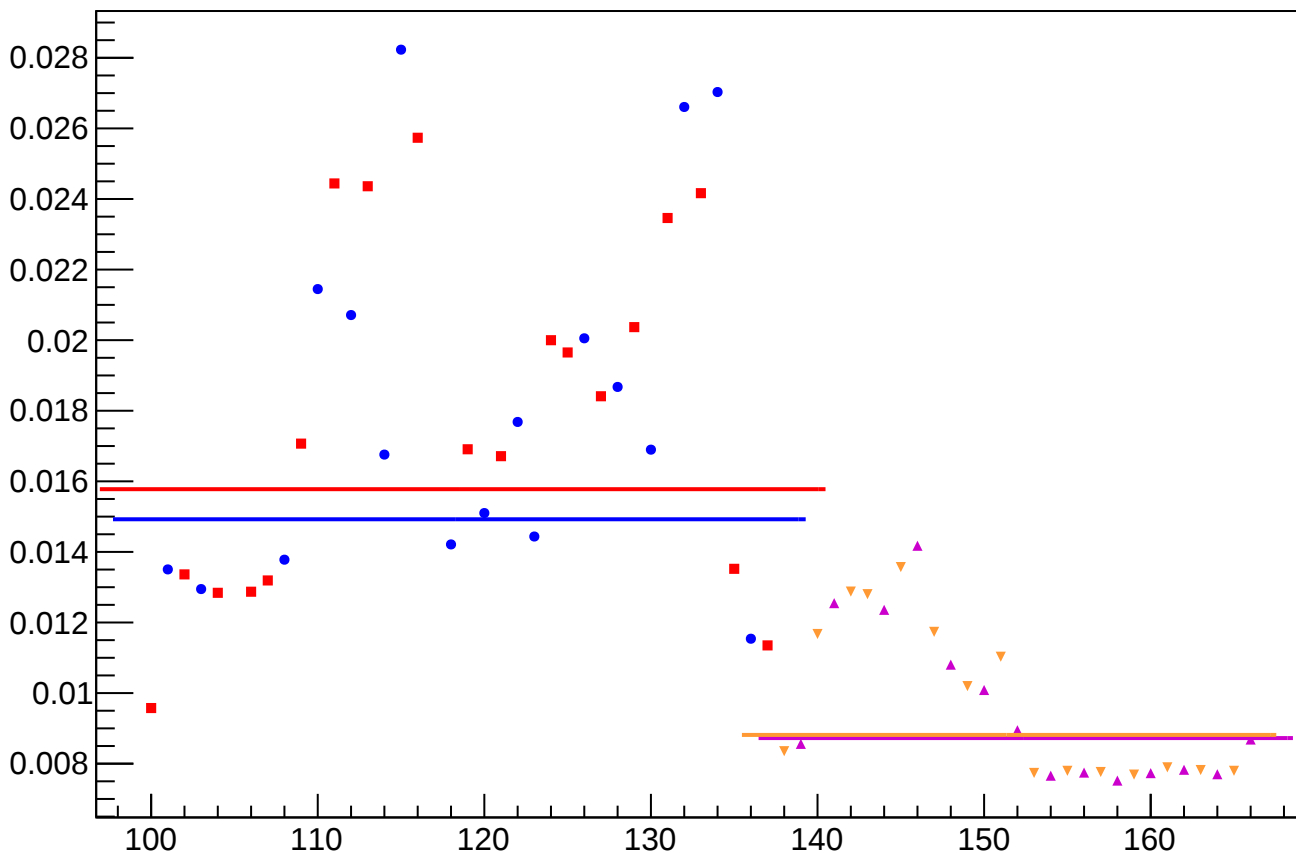
Right: 1.786+/-0.000 χ^2/NDF : 2883751688.5/35

In: 1.582+/-0.000 χ^2/NDF : 20590058285.7/30

Out: 1.592+/-0.000 χ^2/NDF : 25826133169.7/33

All: 1.587+/-0.000 χ^2/NDF : 46423626195.5/6

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 :723934.8/13

Left: 0.009+/-0.000 χ^2/NDF : 1529179.0/28

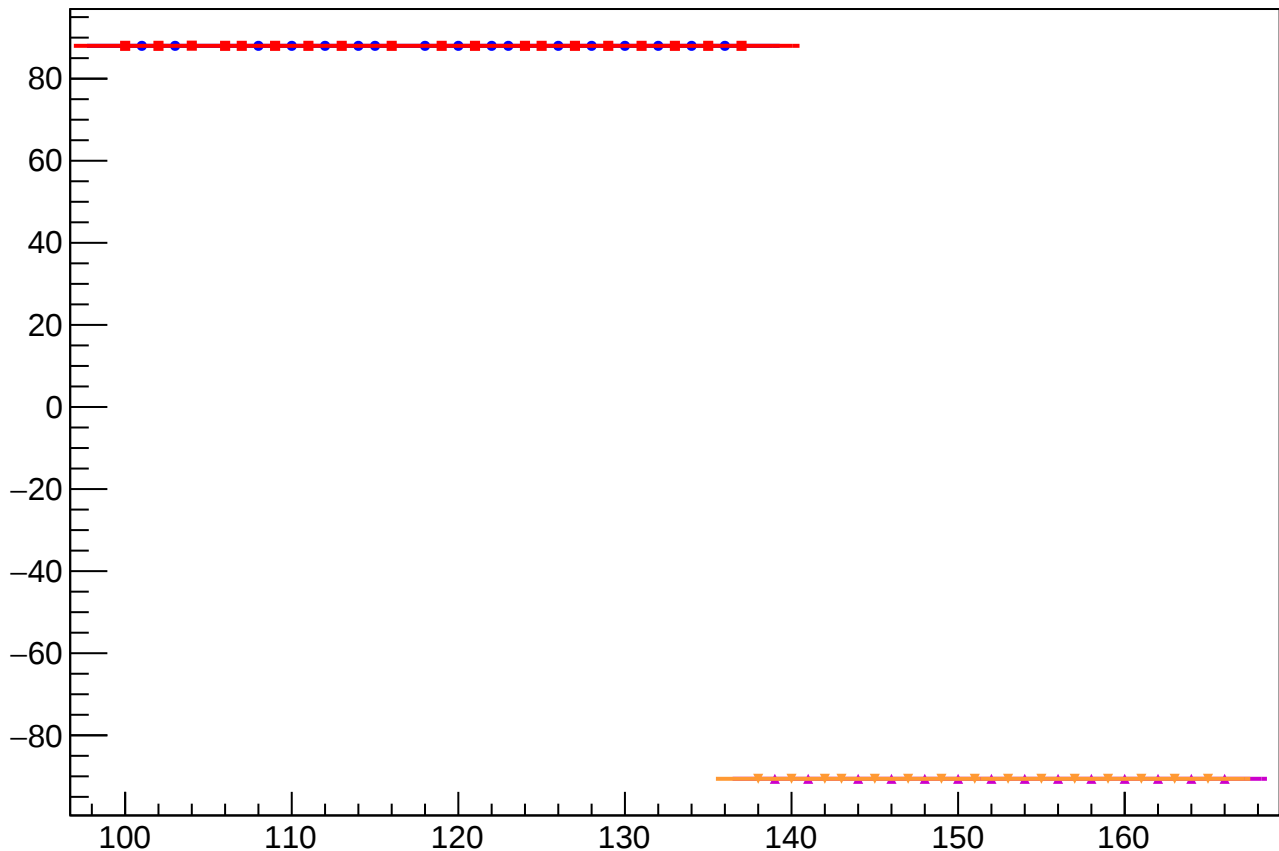
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF :3024970.3/30

Out: 0.010+/-0.000 χ^2/NDF :3572214.7/33

All: 0.010+/-0.000 χ^2/NDF : 6601003.0/64

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 : 5230665.3/13

Left: -90.599+/-0.000 χ^2/NDF : 10192537.3/28

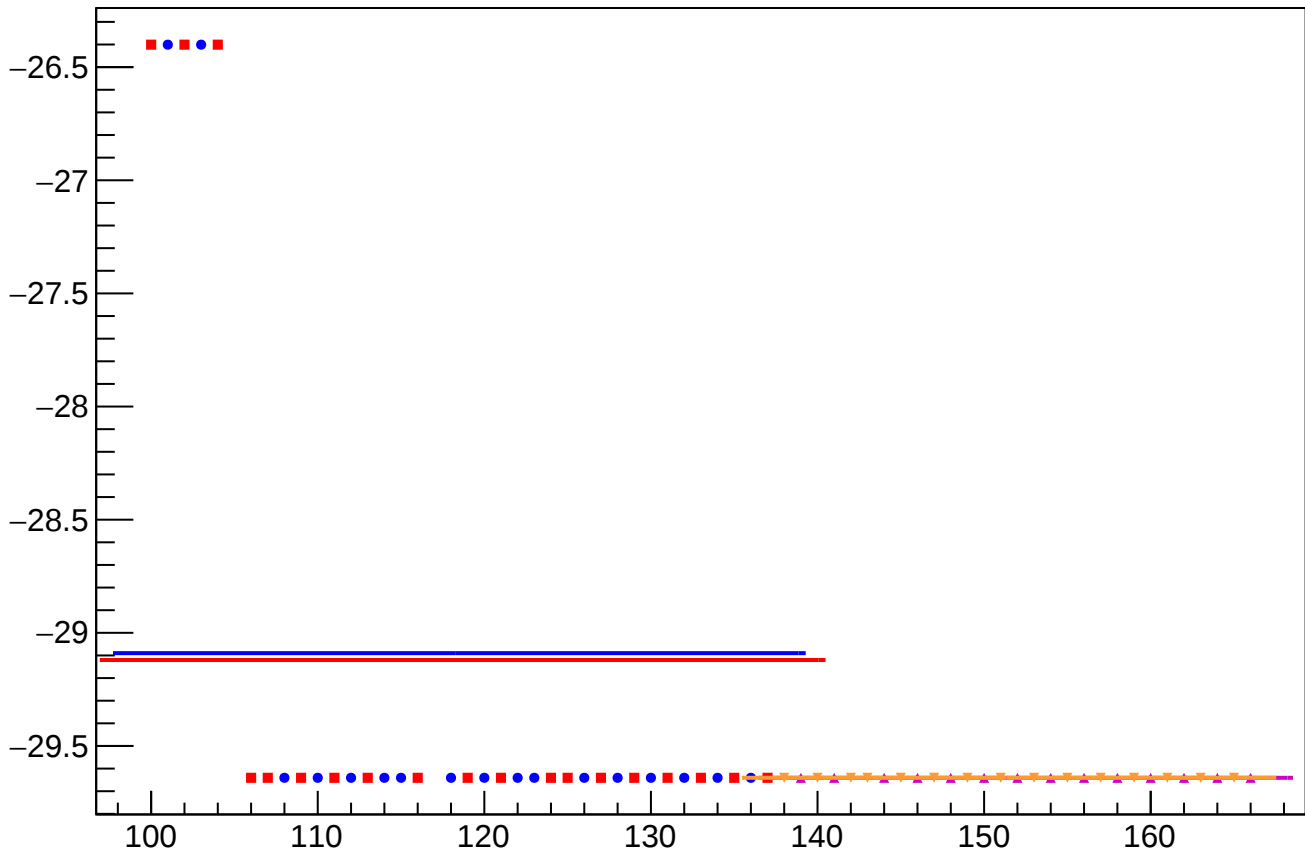
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -22.233+/-0.000 χ^2/NDF : 13663270361036940

Out: -21.641+/-0.000 χ^2/NDF : 1413885646924986

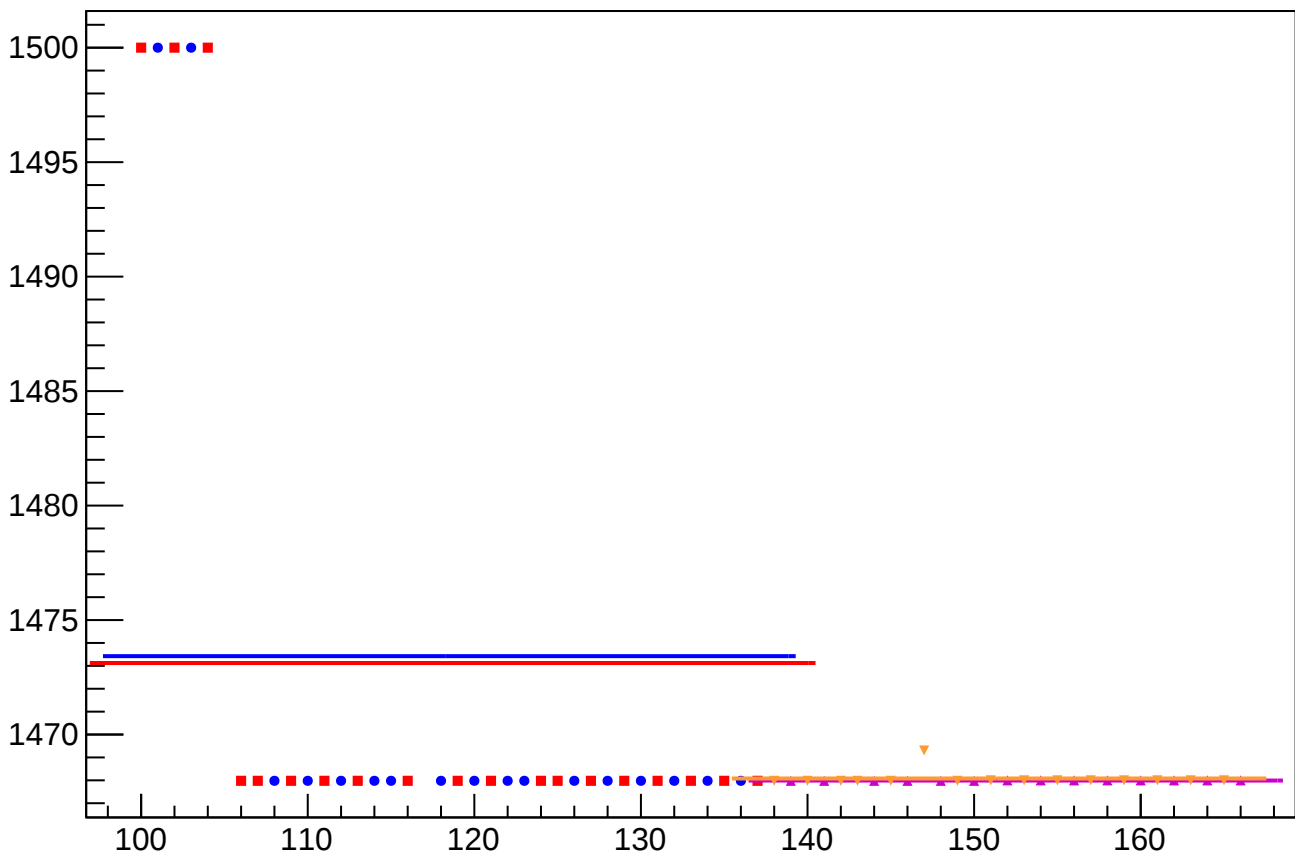
All: -21.933+/-0.000 χ^2/NDF : 278024488219

epics_HWienAngles_mean vs Slug, Sign Corrected



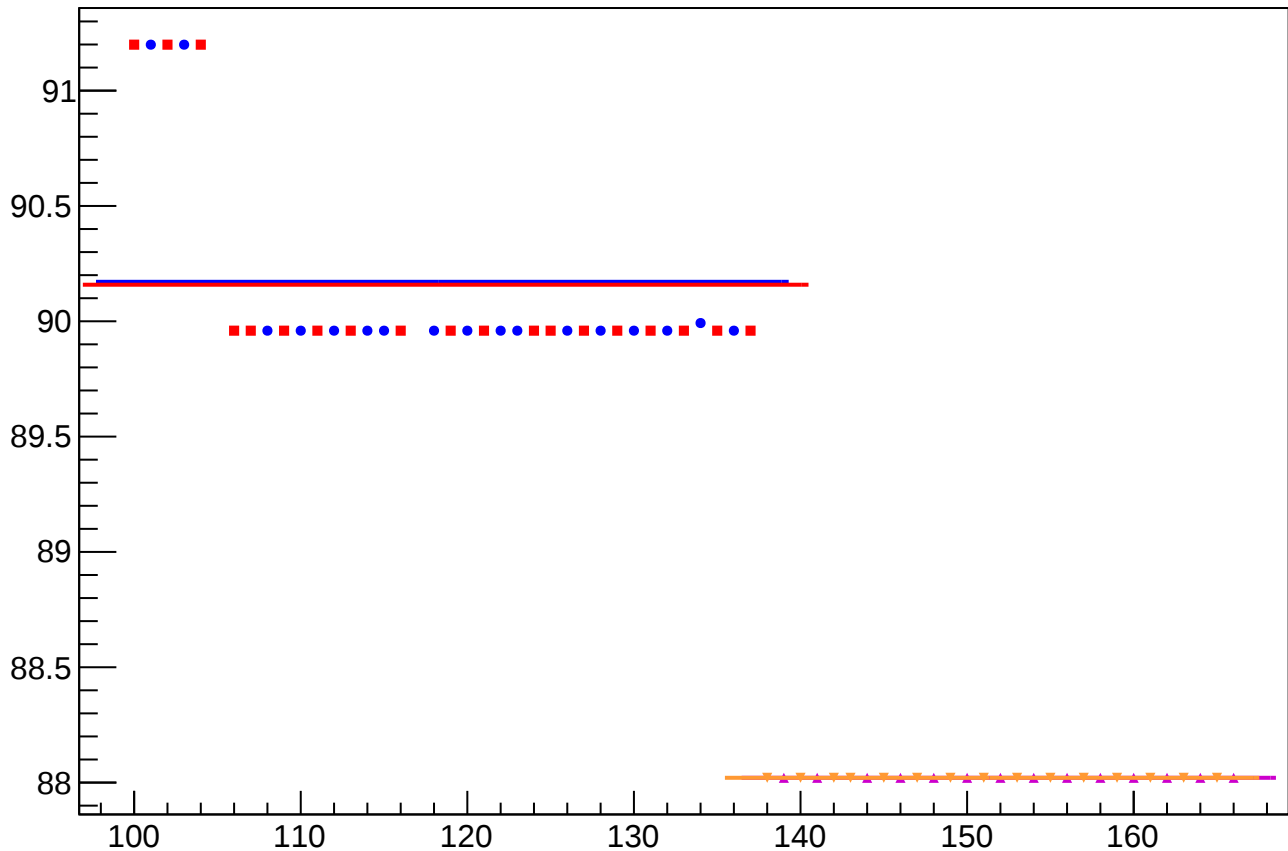
Right In: -29.090+/-0.000 χ^2/NDF : 1028099246109521929793835198578688.0/16
 Left Out: -29.641+/-0.000 χ^2/NDF : 218091.6/14
 Right Out: -29.120+/-0.000 χ^2/NDF : 1022076578393359839206130891882496.0/18
 Left In: -29.641+/-0.000 χ^2/NDF : 135154.0/13
 In: -29.430+/-0.000 χ^2/NDF : 11580943055708661
 Out: -29.440+/-0.000 χ^2/NDF : 1142183789518696
 All: -29.435+/-0.000 χ^2/NDF : 230036818941

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.080+/-0.000 χ^2/NDF : 124941602692703515672762310983680.0/14
 Right Out: 1473.124+/-0.000 χ^2/NDF : 99833021788859785886082809393577984.0/18
 Left In: 1467.990+/-0.000 χ^2/NDF : 110676675579648352636117188608.0/13
 All: 1470.049+/-0.000 χ^2/NDF : 22430330820.0/16

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 : 4964295.4/13

Left: 88.021+/-0.000 χ^2/NDF : 9852860.1/28

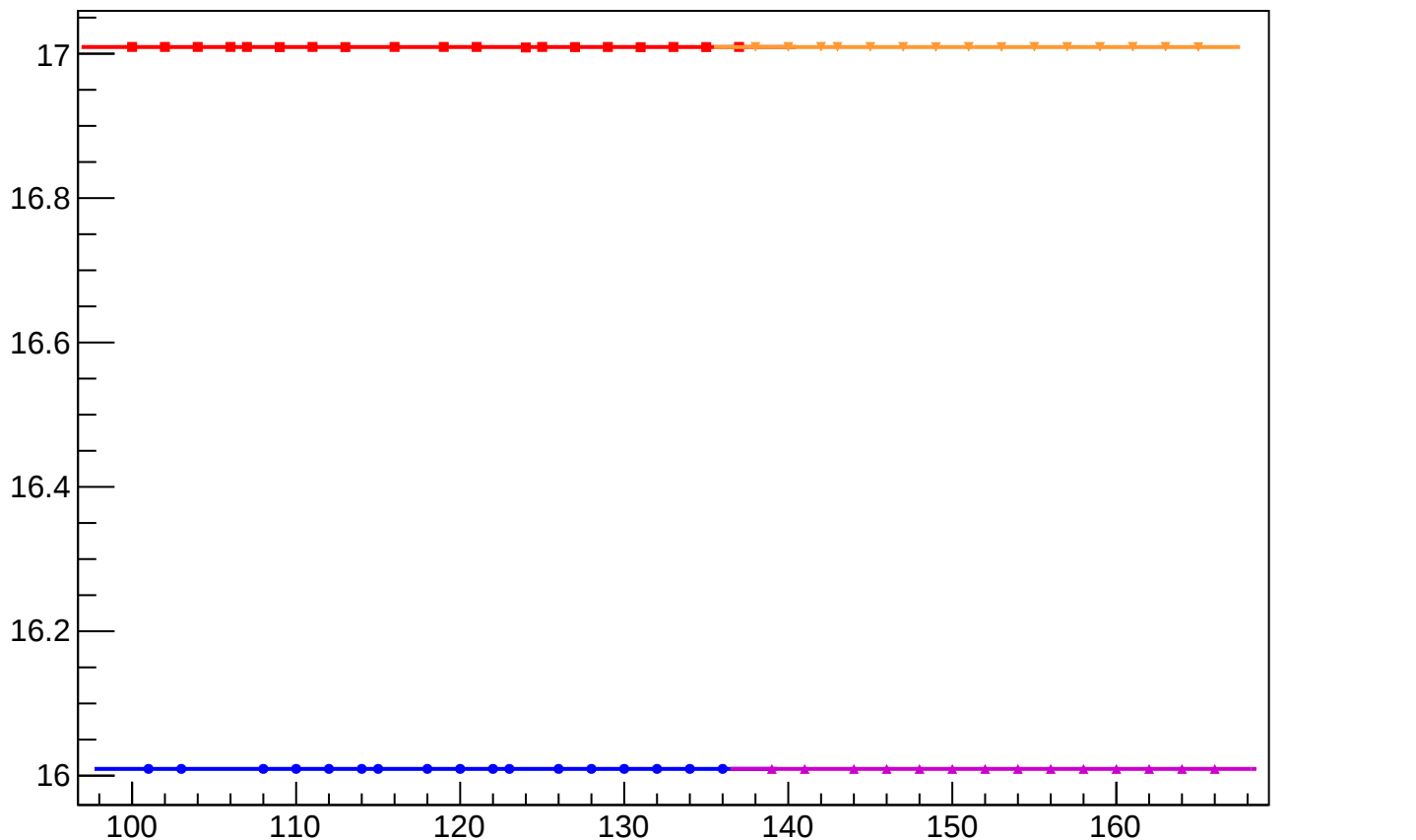
Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

In: 88.844+/-0.000 χ^2/NDF : 213112399968405451

Out: 88.846+/-0.000 χ^2/NDF : 21754231763344700

All: 88.845+/-0.000 χ^2/NDF : 4306551789115

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 : 72676.2/13

Left: 16.510+/-0.000 χ^2/NDF : 52184657167775872

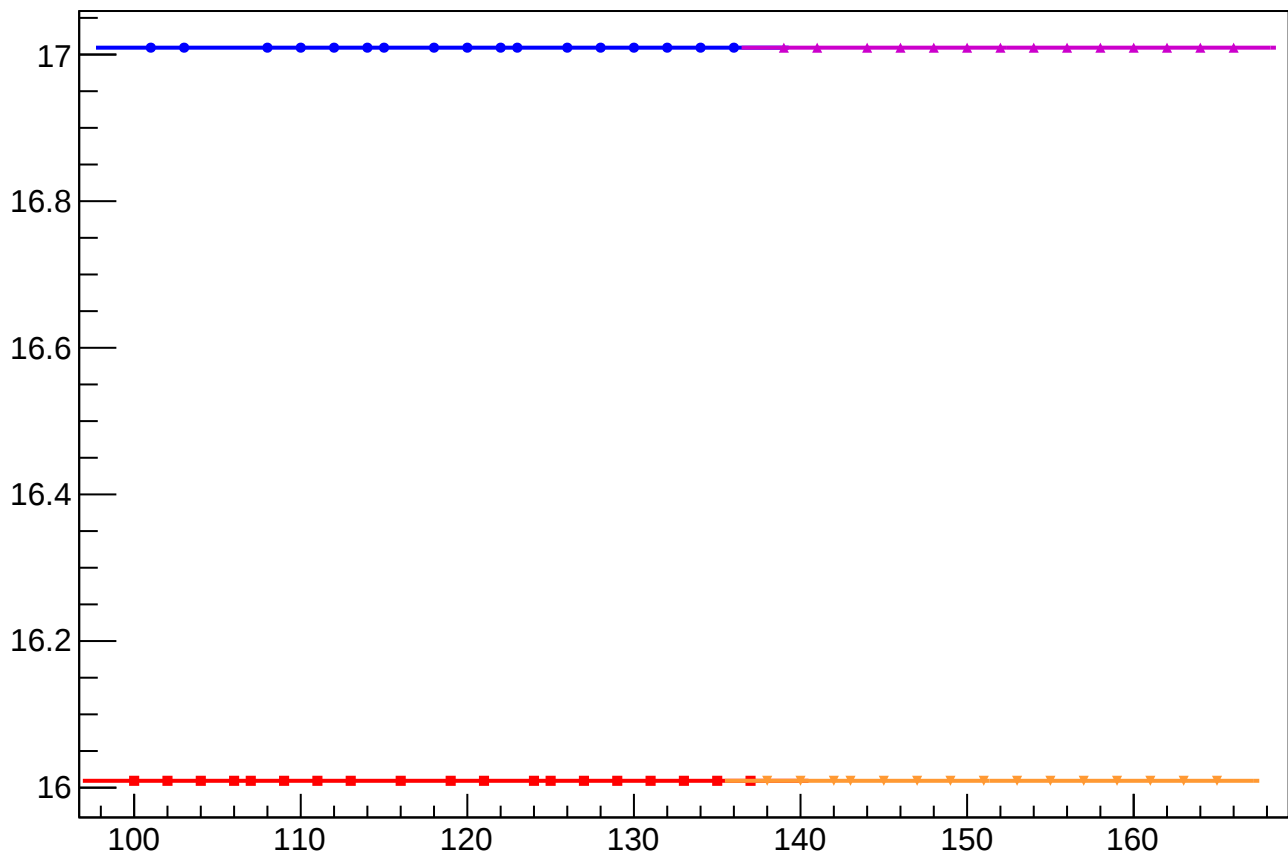
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 202276.6/30

Out: 17.009+/-0.000 χ^2/NDF : 31491449142589301

All: 16.508+/-0.000 χ^2/NDF : 8507845262962

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 : 37941.1/13

Left: 16.500+/-0.000 χ^2/NDF : 5595623046002387

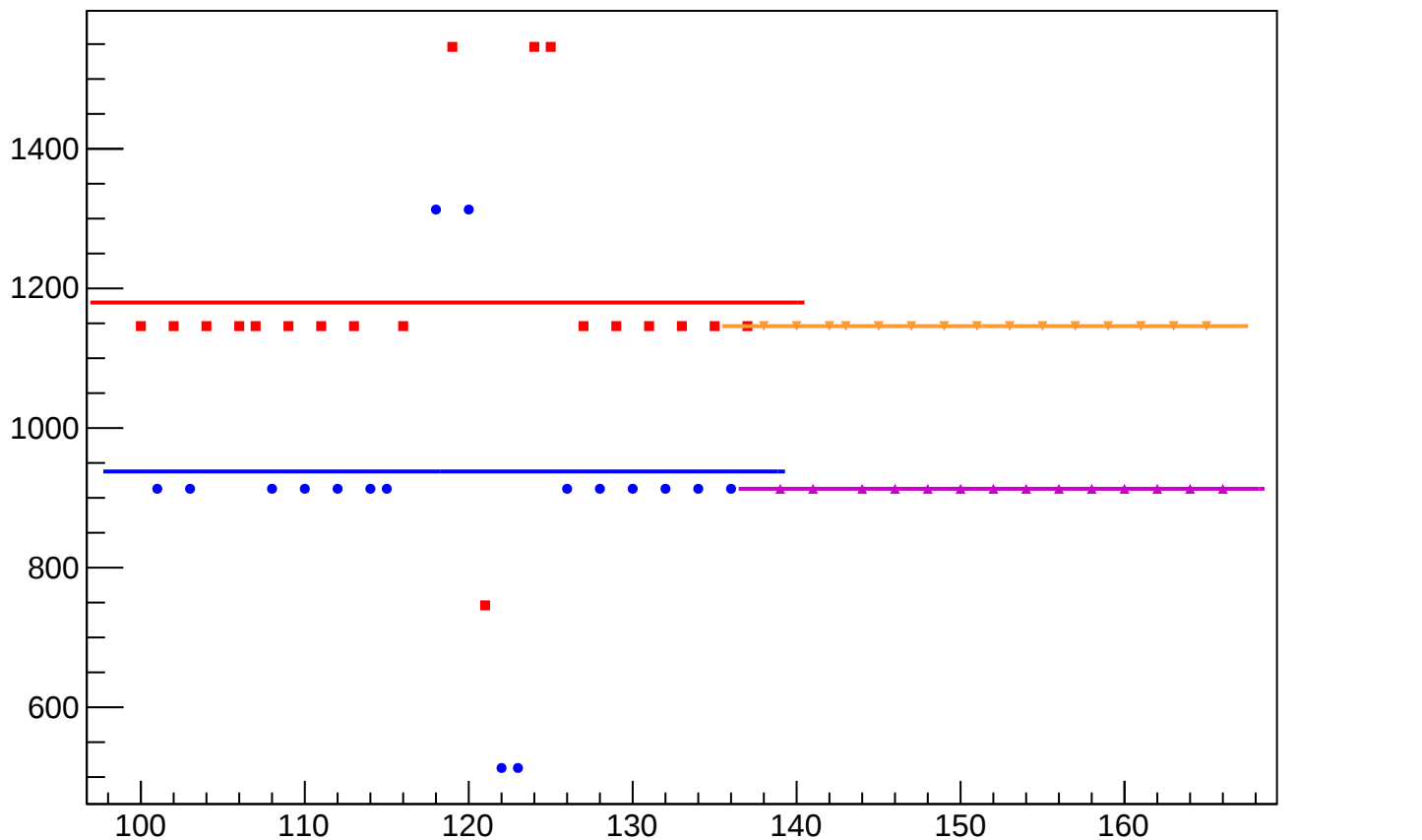
Right: 16.490+/-0.000 χ^2/NDF : 3437400145243126

In: 17.009+/-0.000 χ^2/NDF : 319760.0/30

Out: 16.009+/-0.000 χ^2/NDF : 210569.1/33

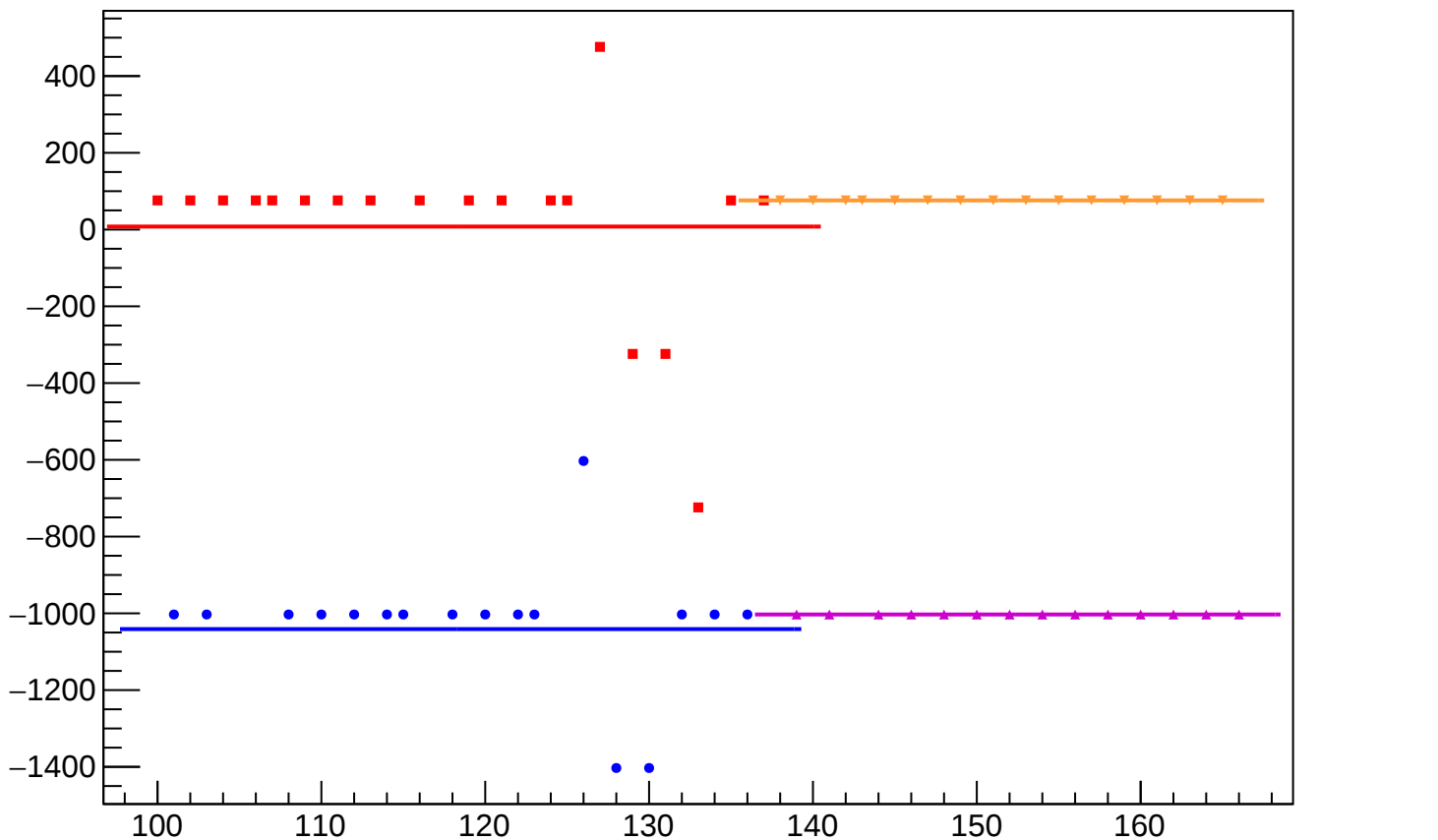
All: 16.496+/-0.000 χ^2/NDF : 9033891039822

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: 912.994+/-0.000 χ^2/NDF : 17953035482576296966491209728.0/13
 All: 1042.601+/-0.000 χ^2/NDF : 94561282153

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030 $\pm$ 0.000 χ^2 /NDF: 22675401109943882512554797113855180800.0/16
 Left Out: 76.011 $\pm$ 0.000 χ^2 /NDF: 9503546090928079927311859712.0/14
 Right Out: 7.865 $\pm$ 0.000 χ^2 /NDF: 43846919472163570410830042713366200320.0/18
 Left In: -1002.990 $\pm$ 0.000 χ^2 /NDF: 1823351229932920573165305856.0/13
 All: -475.667 $\pm$ 0.000 χ^2 /NDF: 11177066559