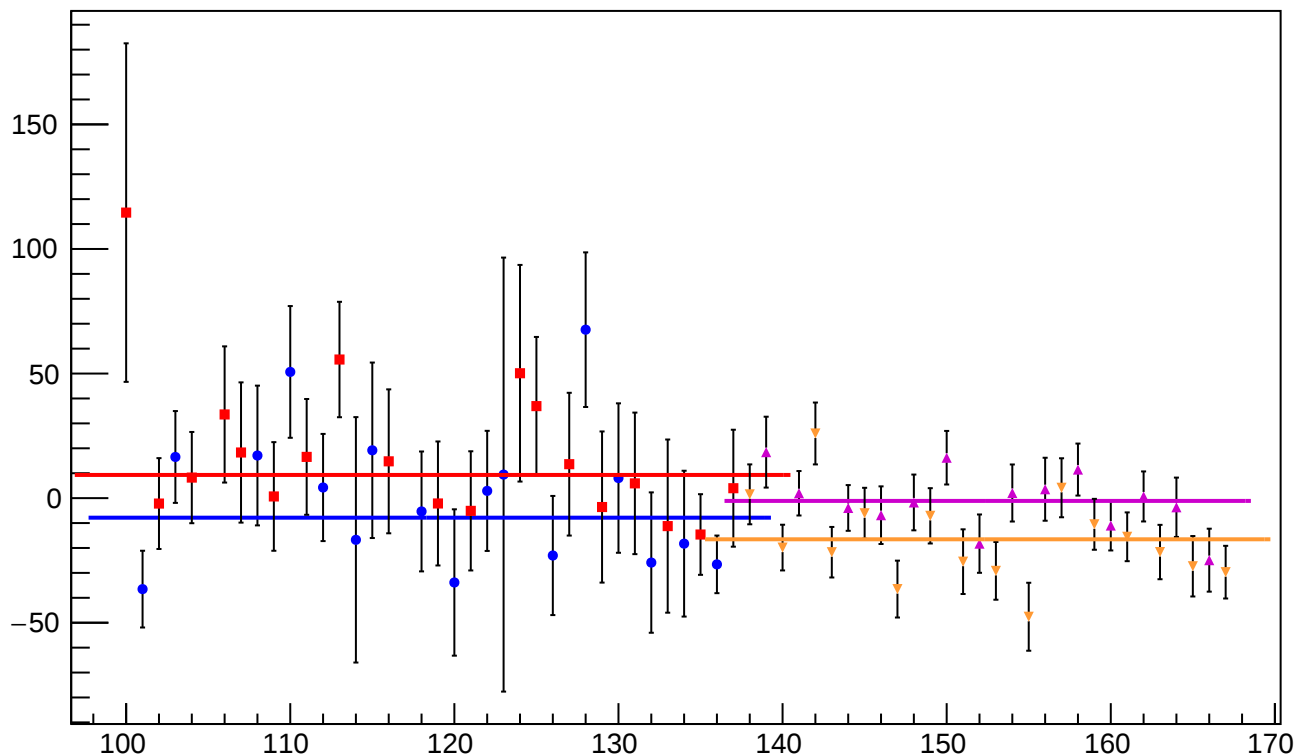


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

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

Left Out: -16.519 ± 2.769

$\chi^2/\text{NDF}: 32.0/15$

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: -9.231 ± 2.010

$\chi^2/\text{NDF}: 60.0/29$

Right: 0.629 ± 3.990

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

In: -2.550 ± 2.591

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

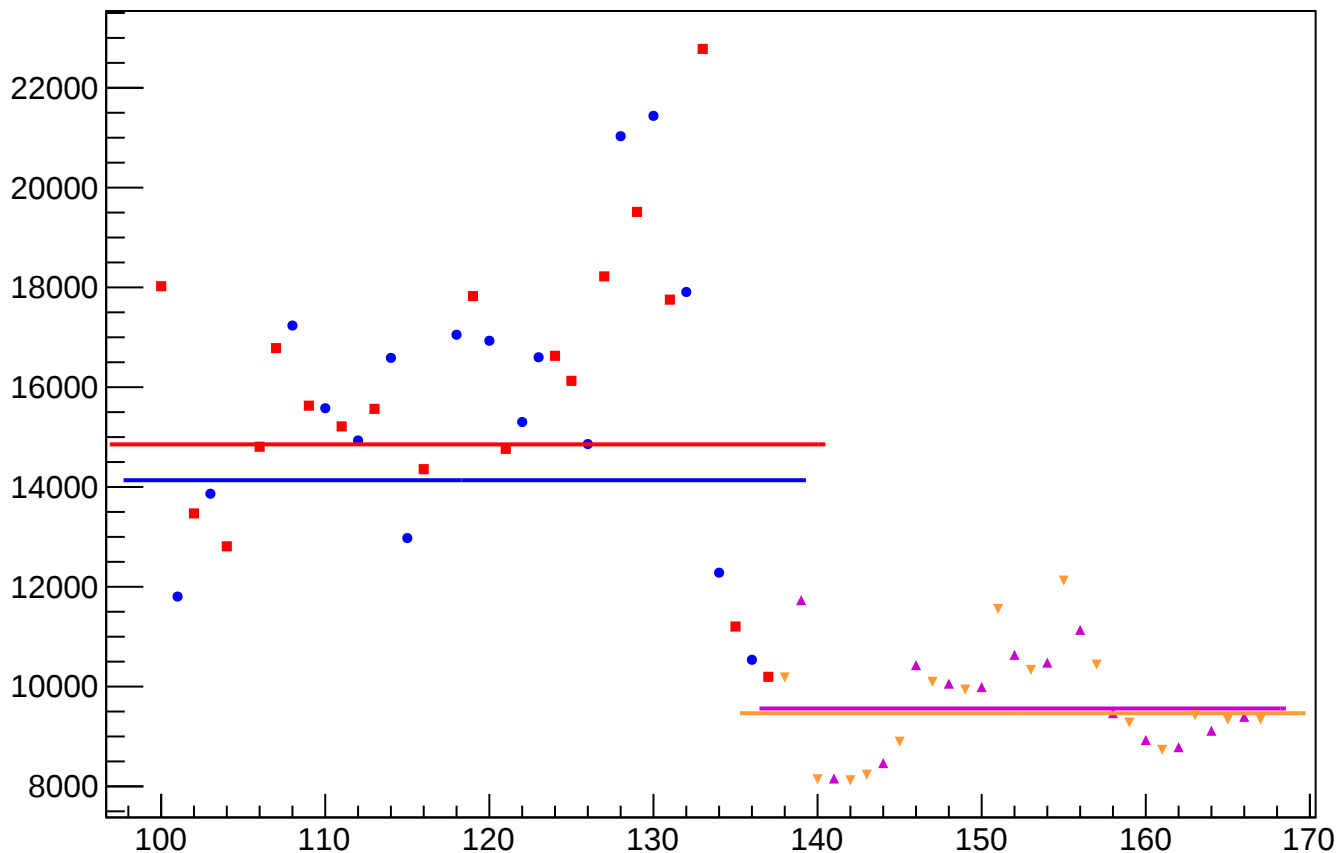
Out: -11.557 ± 2.489

$\chi^2/\text{NDF}: 62.0/34$

All: -7.236 ± 1.795

$\chi^2/\text{NDF}: 105.4/65$

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9465.973+/-1.958 χ^2/NDF : 282746.6/15

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: 9511.000+/-1.421 χ^2/NDF : 510907.0/29

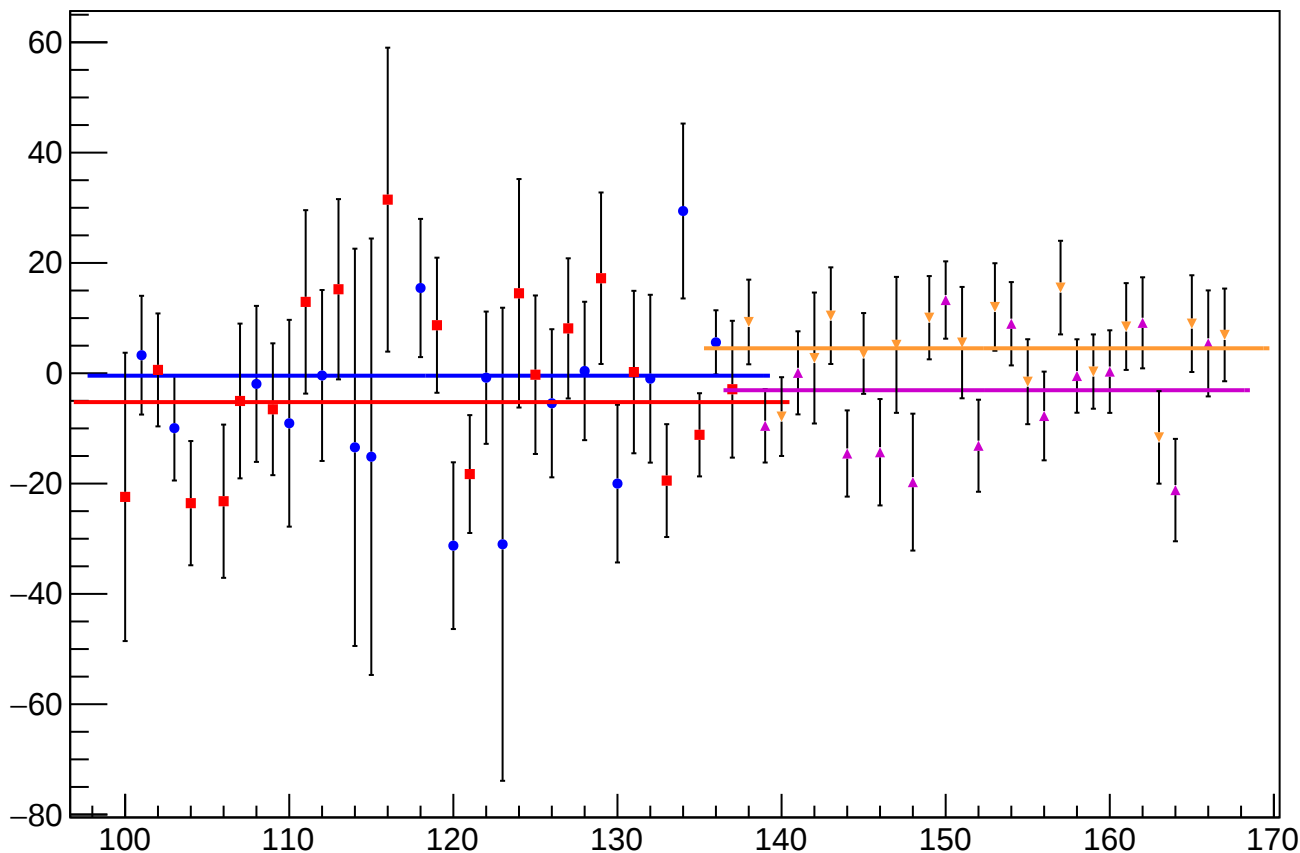
Right: 14490.533+/-2.821 χ^2/NDF : 1085397.6/35

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

Out: 10501.221+/-1.760 χ^2/NDF : 2210097.2/34

All: 10518.794+/-1.269 χ^2/NDF : 4081118.3/66

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 4.528 ± 2.061 χ^2/NDF : 12.3/15

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: 0.865 ± 1.483 χ^2/NDF : 42.2/29

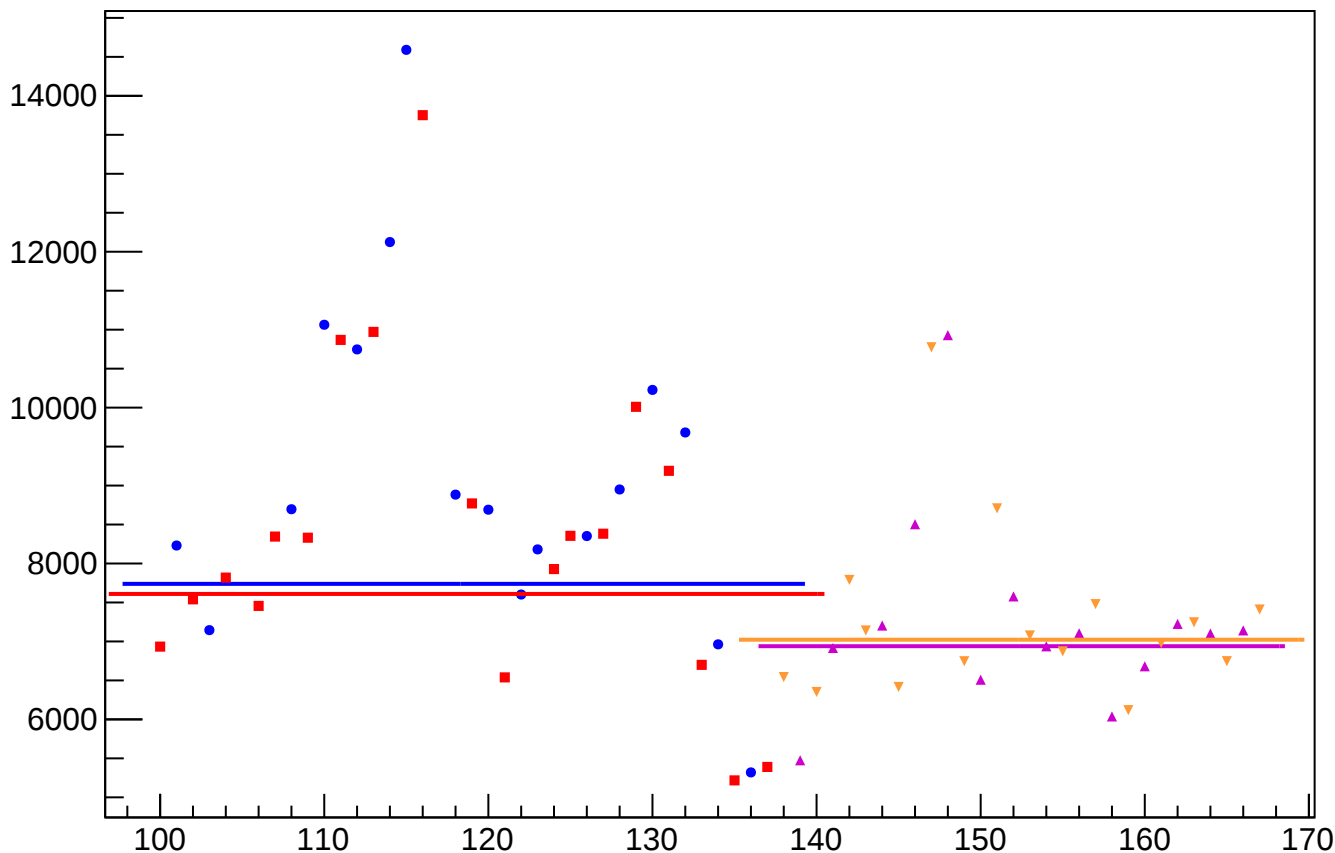
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -2.216 ± 1.754 χ^2/NDF : 38.4/30

Out: 1.308 ± 1.687 χ^2/NDF : 39.1/34

All: -0.385 ± 1.216 χ^2/NDF : 79.5/65

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7022.230 $\pm$ 1.457 χ^2 /NDF:341995.5/15

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

Left In: 6939.015 $\pm$ 1.511 χ^2 /NDF:421320.3/13

Left: 6982.138 $\pm$ 1.049 χ^2 /NDF: 764887.4/29

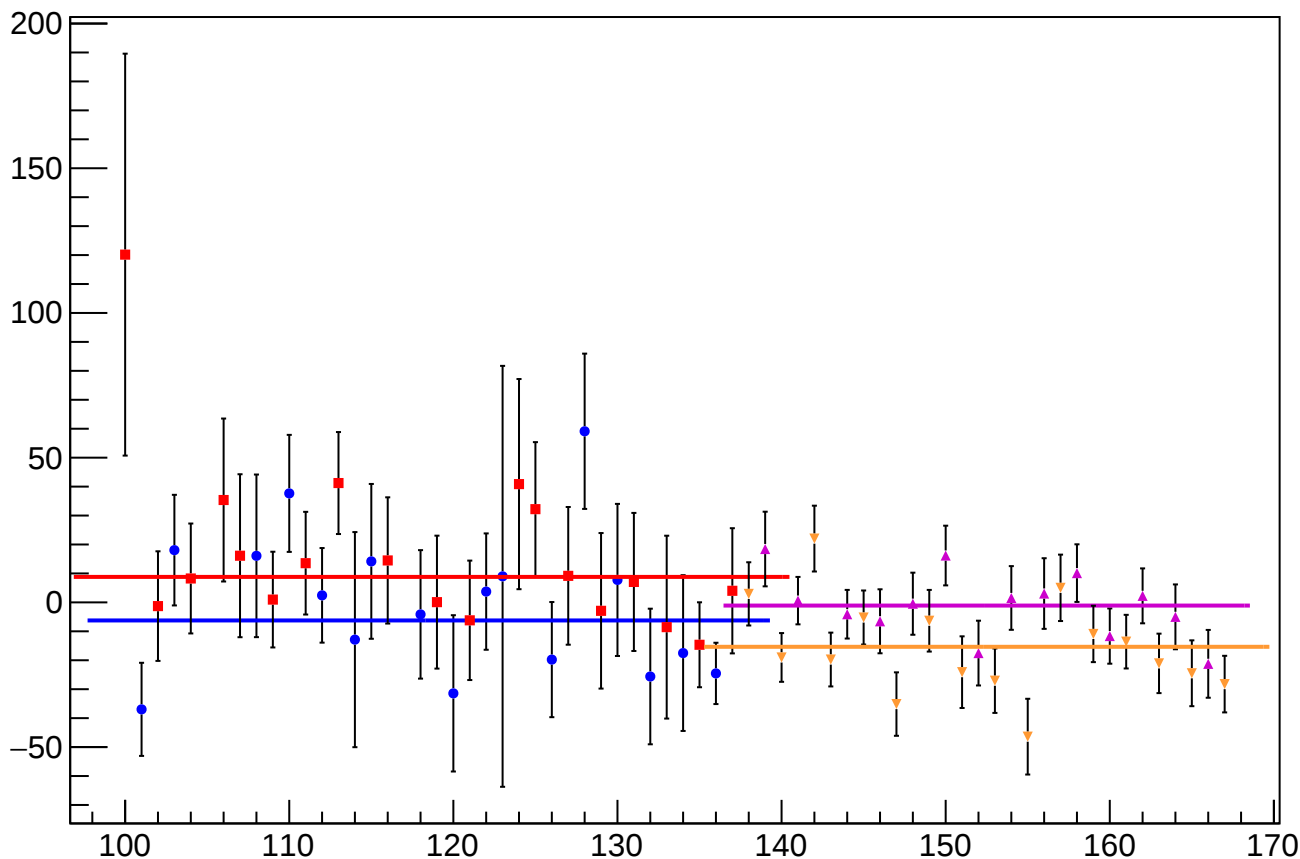
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

In: 7199.968 $\pm$ 1.240 χ^2 /NDF:1253568.7/30

Out: 7216.058 $\pm$ 1.193 χ^2 /NDF:1074798.6/34

All: 7208.329 $\pm$ 0.860 χ^2 /NDF: 2328454.7/65

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.244 ± 5.017 χ^2/NDF : 23.2/16

Left Out: -15.351 ± 2.597 χ^2/NDF : 32.5/15

Right Out: 8.802 ± 4.999 χ^2/NDF : 13.1/18

Left In: -1.104 ± 2.755 χ^2/NDF : 13.5/13

Left: -8.648 ± 1.890 χ^2/NDF : 60.2/29

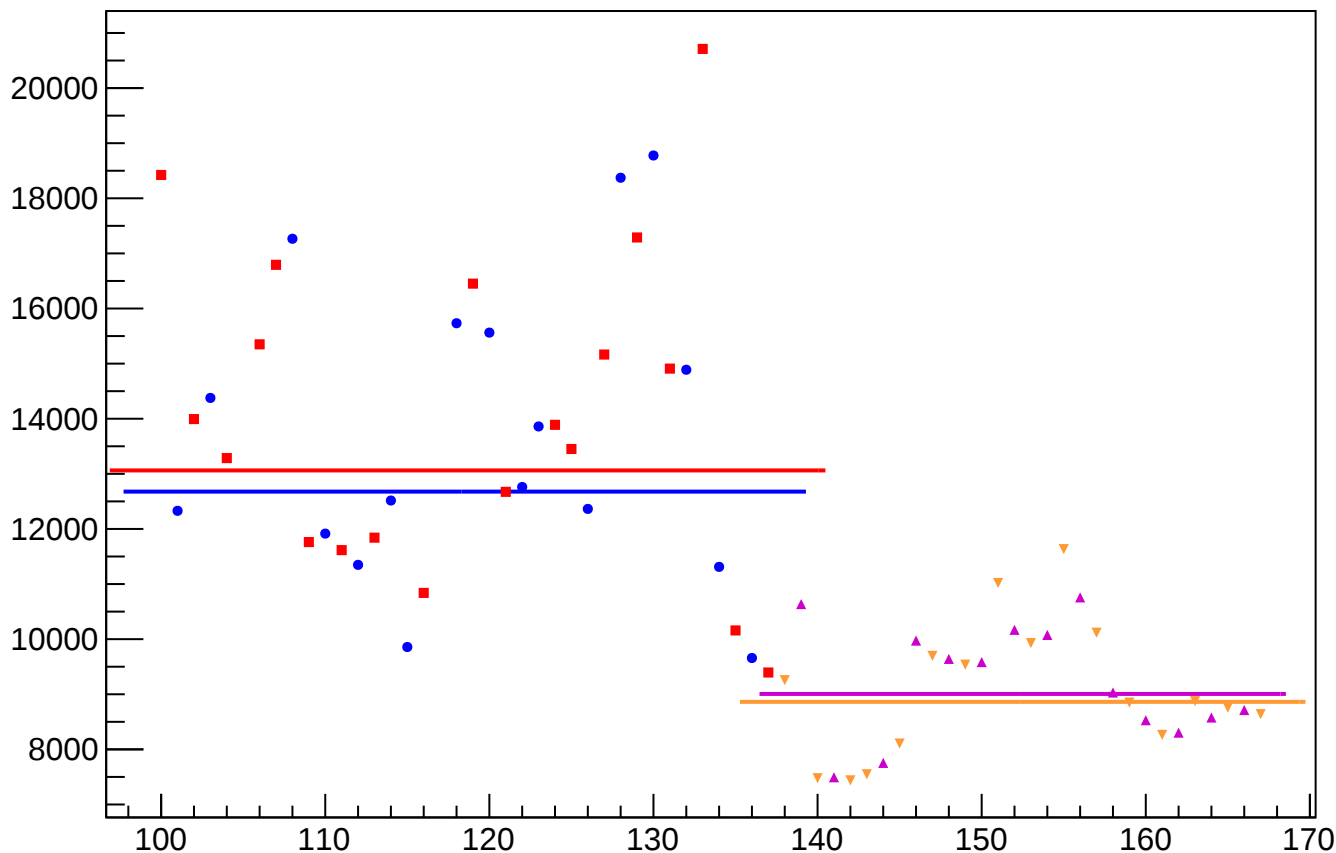
Right: 1.306 ± 3.541 χ^2/NDF : 40.9/35

In: -2.295 ± 2.415 χ^2/NDF : 37.5/30

Out: -10.218 ± 2.305 χ^2/NDF : 64.0/34

All: -6.442 ± 1.667 χ^2/NDF : 107.2/65

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12677.516+/-3.548 χ^2/NDF : 553605.5/16

Left Out: 8862.445+/-1.836 χ^2/NDF : 363117.0/15

Right Out: 13061.839+/-3.535 χ^2/NDF : 497429.6/18

Left In: 9006.247+/-1.948 χ^2/NDF : 274970.3/13

Left: 8930.093+/-1.336 χ^2/NDF : 640972.3/29

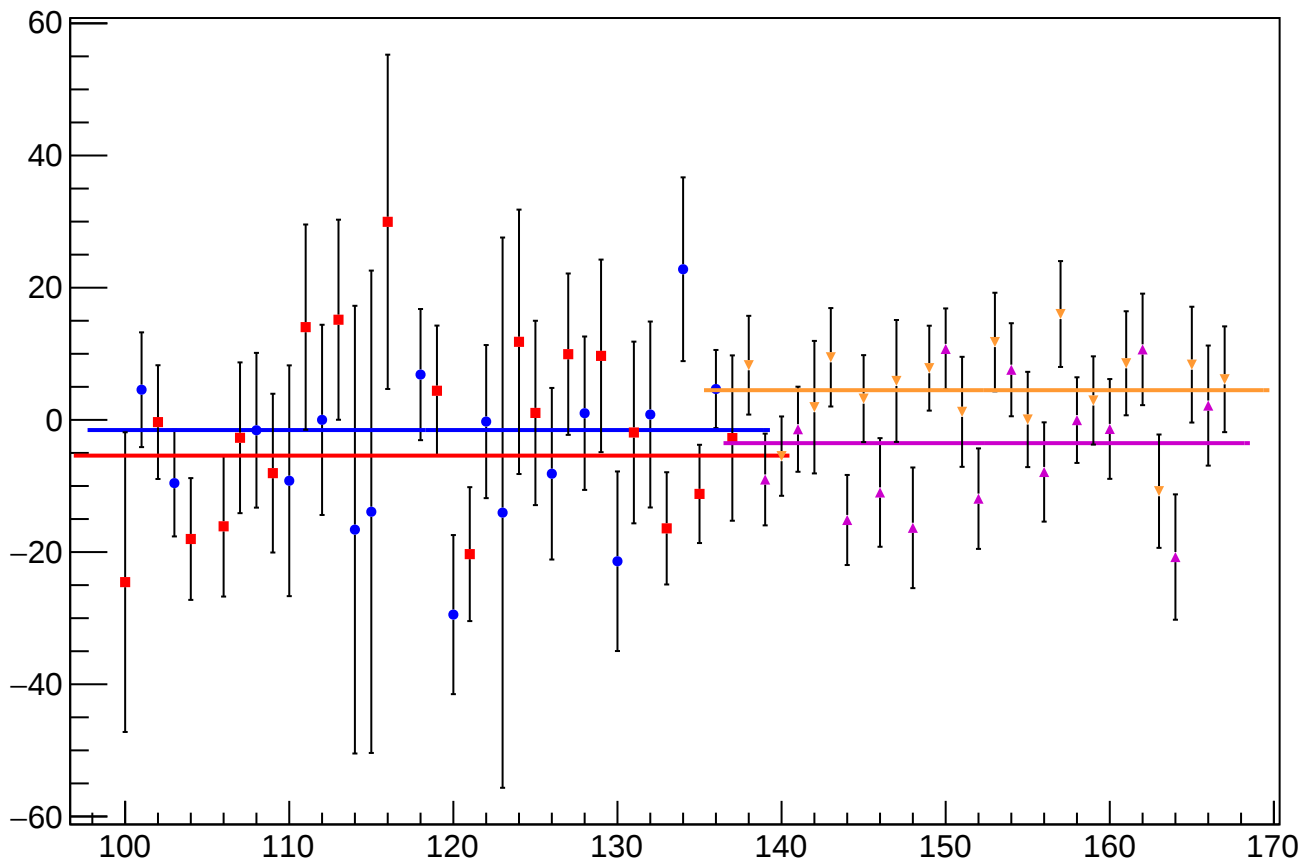
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

In: 9856.895+/-1.708 χ^2/NDF : 1651277.2/30

Out: 9754.796+/-1.630 χ^2/NDF : 1971868.0/34

All: 9803.454+/-1.179 χ^2/NDF : 3625016.1/65

diff_bpm4eY_mean vs Slug, Sign Corrected



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

Left Out: 4.494 ± 1.887 χ^2/NDF : 11.2/15

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: 0.691 ± 1.368 χ^2/NDF : 42.5/29

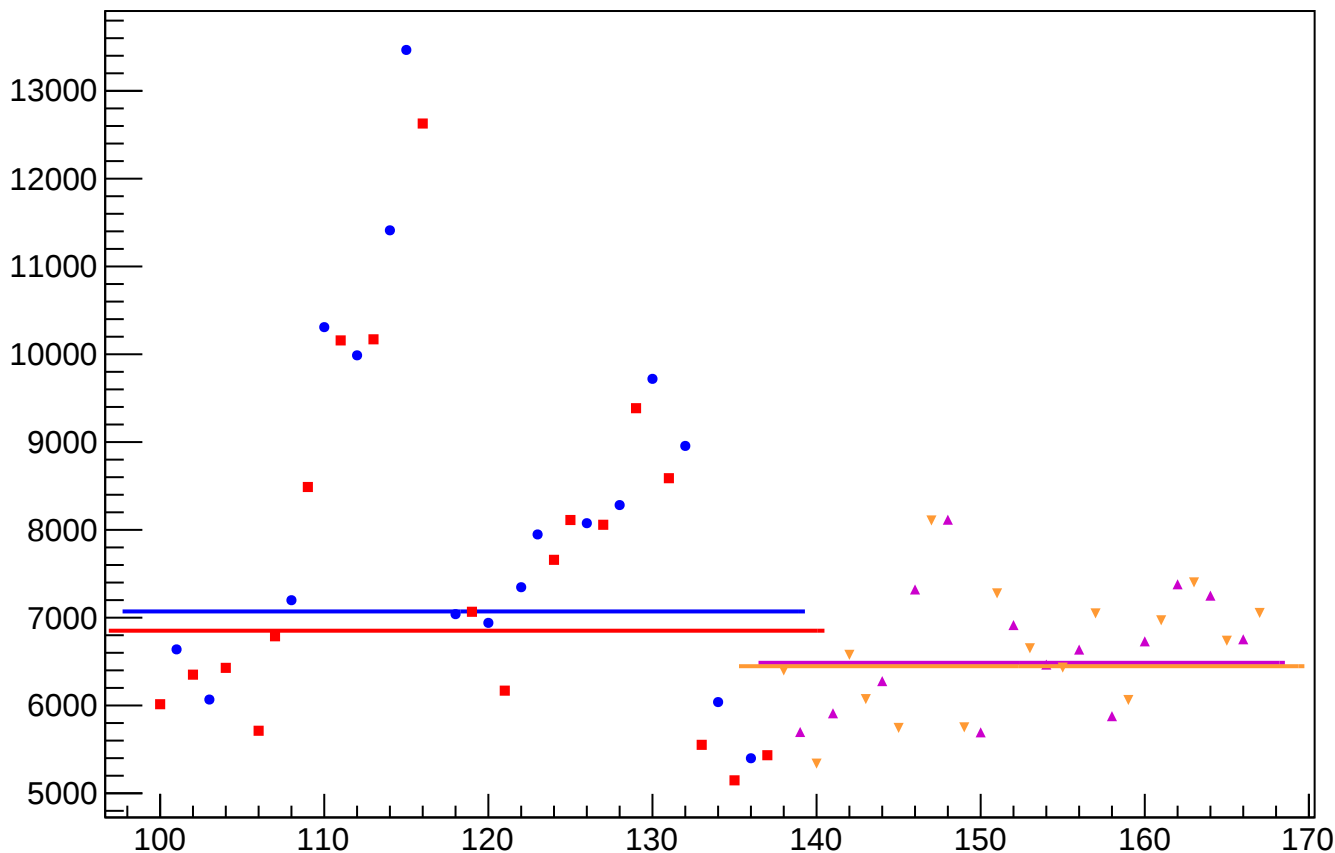
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -2.853 ± 1.618 χ^2/NDF : 38.0/30

Out: 1.146 ± 1.535 χ^2/NDF : 39.0/34

All: -0.749 ± 1.114 χ^2/NDF : 80.2/65

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6447.297 $\pm$ 1.334 χ^2 /NDF: 271575.4/15

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

Left In: 6485.931 $\pm$ 1.404 χ^2 /NDF: 225568.1/13

Left: 6465.633 $\pm$ 0.967 χ^2 /NDF: 497541.4/29

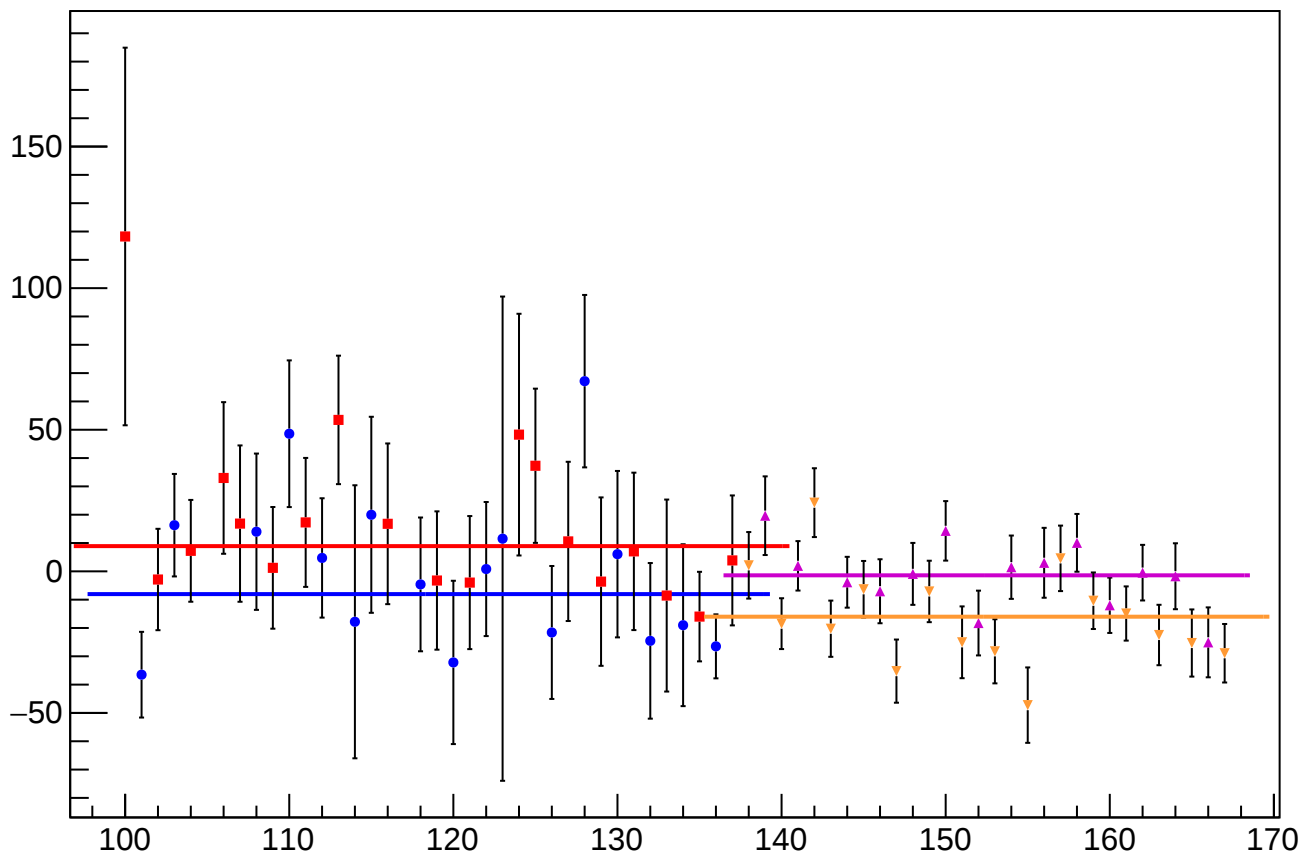
Right: 6955.236 $\pm$ 1.356 χ^2 /NDF: 1291674.4/35

In: 6682.580 $\pm$ 1.144 χ^2 /NDF: 884700.1/30

Out: 6584.034 $\pm$ 1.085 χ^2 /NDF: 987026.5/34

All: 6630.727 $\pm$ 0.787 χ^2 /NDF: 1875632.1/65

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.036 ± 5.497 $\chi^2/\text{NDF}: 22.6/16$

Left Out: -16.014 ± 2.707 $\chi^2/\text{NDF}: 31.4/15$

Right Out: 8.907 ± 5.566 $\chi^2/\text{NDF}: 13.7/18$

Left In: -1.405 ± 2.856 $\chi^2/\text{NDF}: 13.5/13$

Left: -9.102 ± 1.965 $\chi^2/\text{NDF}: 58.7/29$

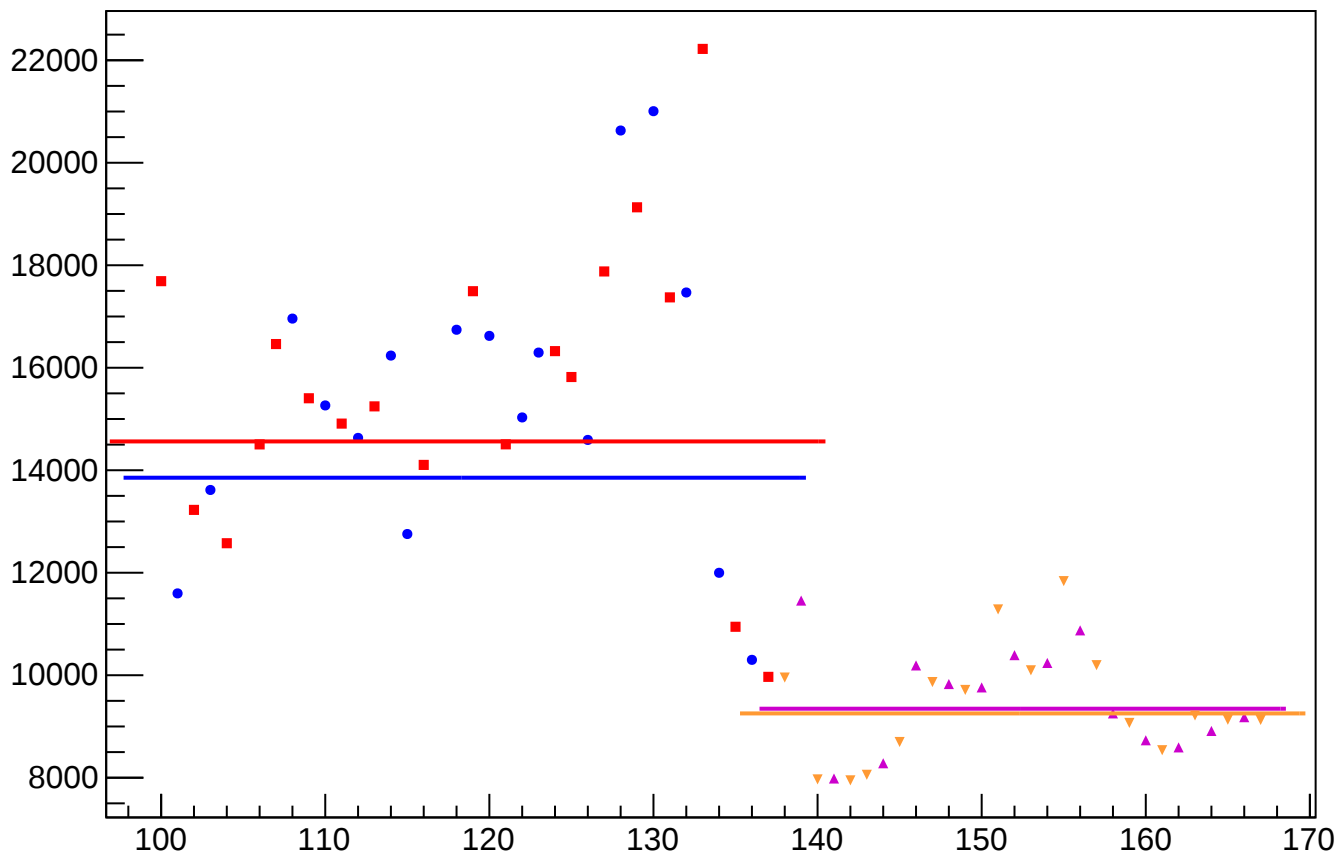
Right: 0.330 ± 3.911 $\chi^2/\text{NDF}: 41.0/35$

In: -2.814 ± 2.535 $\chi^2/\text{NDF}: 37.2/30$

Out: -11.249 ± 2.434 $\chi^2/\text{NDF}: 61.3/34$

All: -7.202 ± 1.756 $\chi^2/\text{NDF}: 104.3/65$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.187 $\pm$ 3.887 χ^2 /NDF: 600963.4/16

Left Out: 9254.676 $\pm$ 1.914 χ^2 /NDF: 279539.1/15

Right Out: 14562.308 $\pm$ 3.936 χ^2 /NDF: 474279.5/18

Left In: 9346.668 $\pm$ 2.020 χ^2 /NDF: 224338.6/13

Left: 9298.199 $\pm$ 1.389 χ^2 /NDF: 504970.8/29

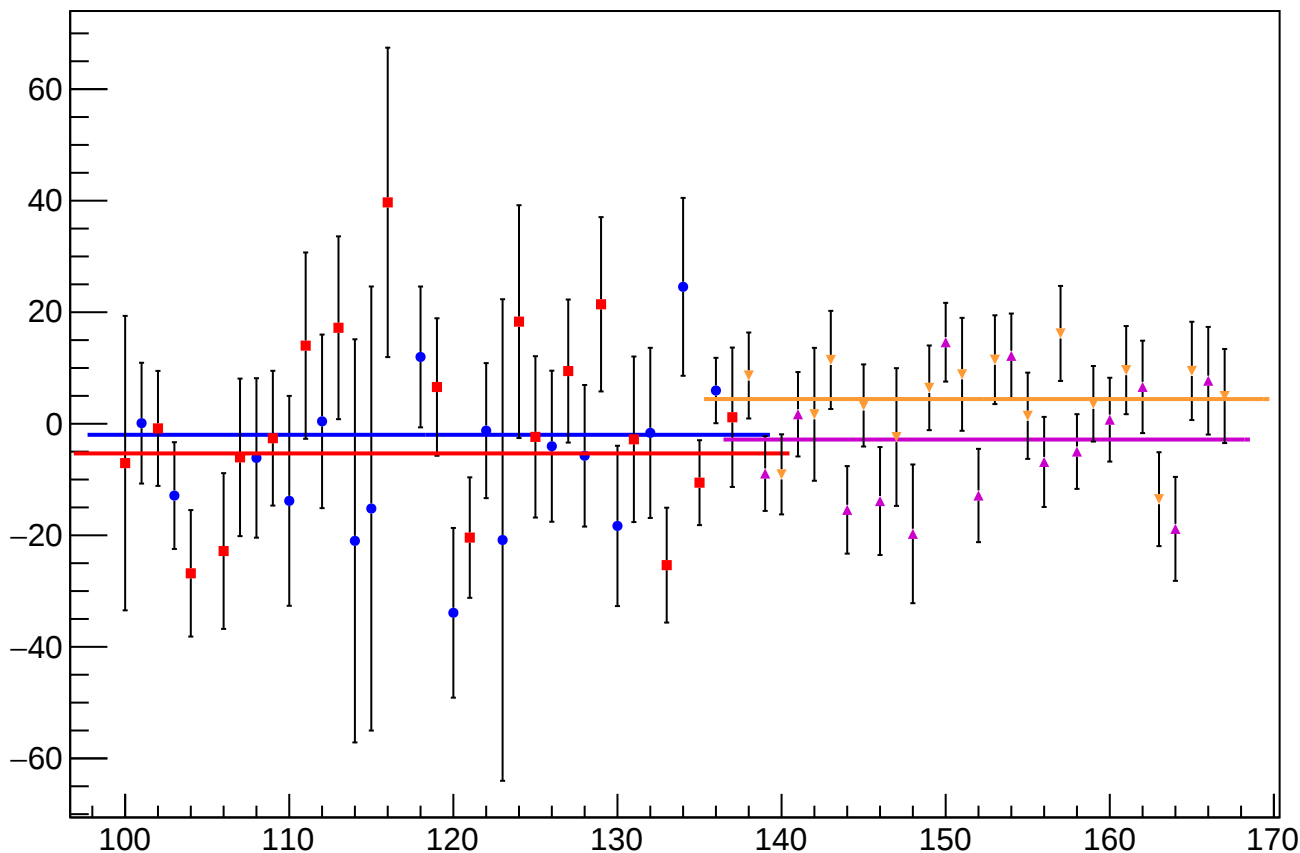
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 10304.800 $\pm$ 1.792 χ^2 /NDF: 1884087.7/30

Out: 10269.643 $\pm$ 1.721 χ^2 /NDF: 2224590.3/34

All: 10286.511 $\pm$ 1.241 χ^2 /NDF: 4108878.3/6

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.978 ± 3.094 $\chi^2/\text{NDF}: 14.0/16$

Left Out: 4.431 ± 2.070 $\chi^2/\text{NDF}: 13.3/15$

Right Out: -5.318 ± 2.959 $\chi^2/\text{NDF}: 24.3/18$

Left In: -2.828 ± 2.147 $\chi^2/\text{NDF}: 24.4/13$

Left: 0.934 ± 1.490 $\chi^2/\text{NDF}: 43.6/29$

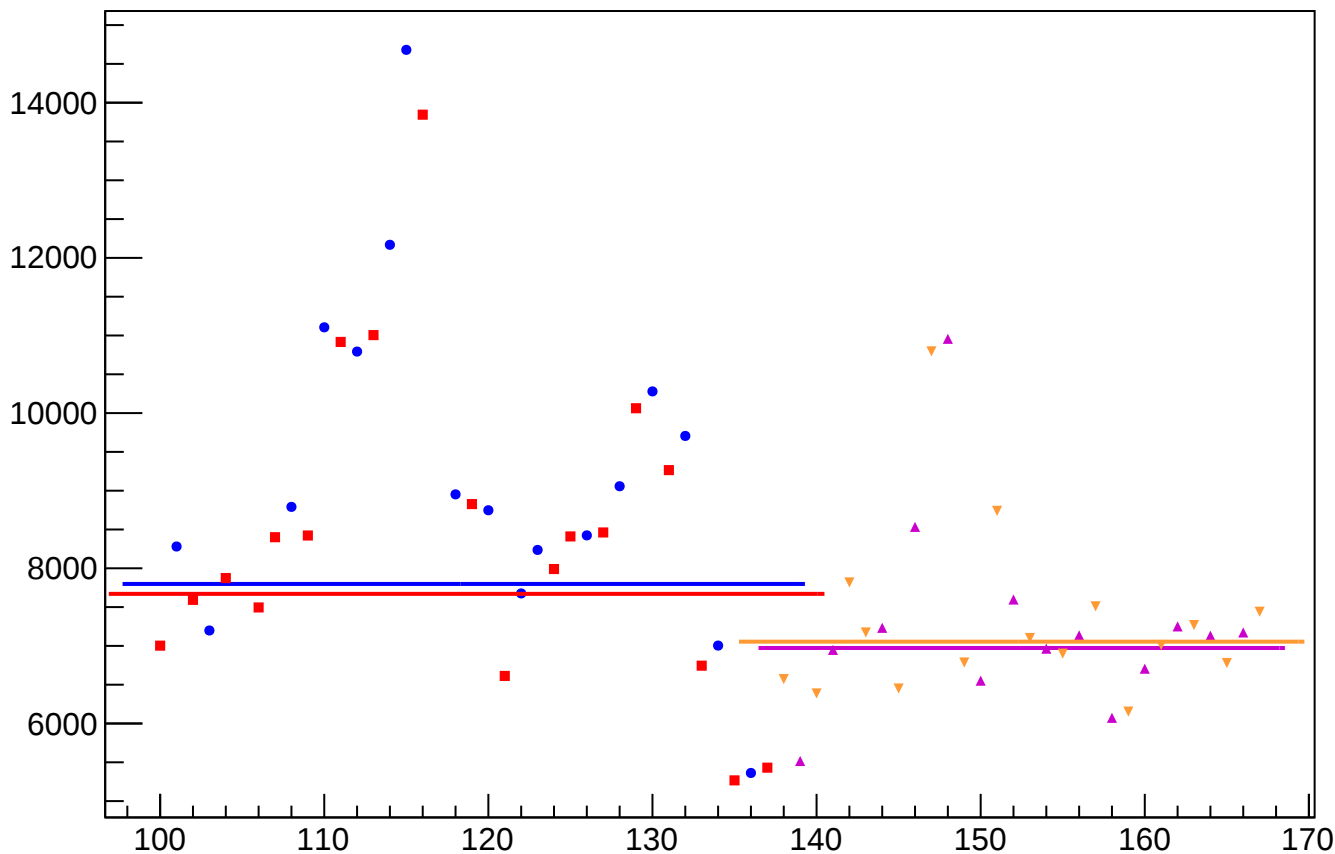
Right: -3.723 ± 2.138 $\chi^2/\text{NDF}: 39.0/35$

In: -2.552 ± 1.764 $\chi^2/\text{NDF}: 38.5/30$

Out: 1.228 ± 1.696 $\chi^2/\text{NDF}: 44.9/34$

All: -0.588 ± 1.222 $\chi^2/\text{NDF}: 85.8/65$

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7054.727 +/- 1.463 χ^2/NDF : 338149.5/15

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: 7015.242 +/- 1.054 χ^2/NDF : 754708.3/29

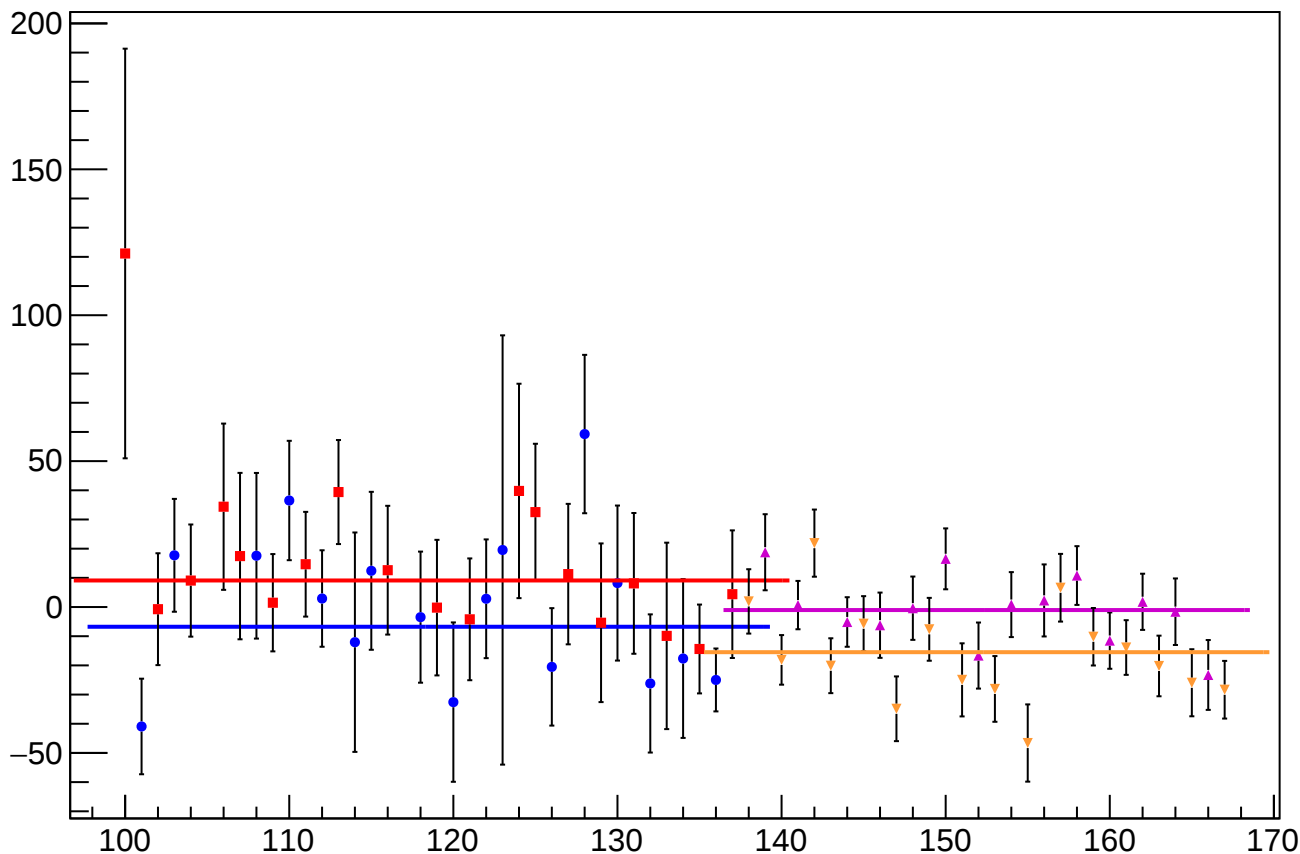
Right: 7731.569 +/- 1.512 χ^2/NDF : 1410753.9/35

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

Out: 7257.092 +/- 1.199 χ^2/NDF : 1069028.6/34

All: 7249.388 +/- 0.864 χ^2/NDF : 2316550.6/65

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

Left Out: -15.472 ± 2.625 χ^2/NDF : 32.1/15

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

Left In: -1.036 ± 2.790 χ^2/NDF : 13.7/13

Left: -8.692 ± 1.912 χ^2/NDF : 60.0/29

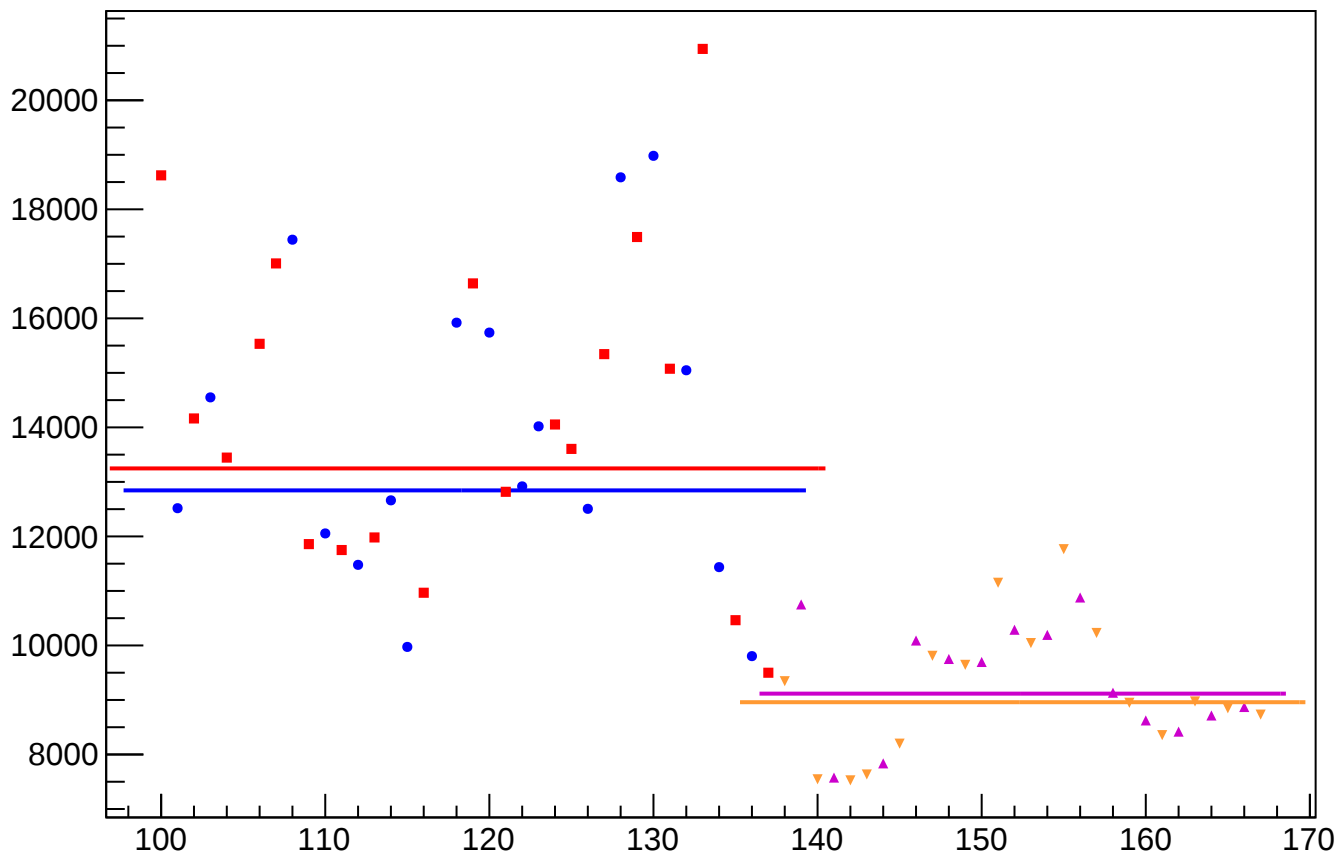
Right: 1.193 ± 3.590 χ^2/NDF : 40.8/35

In: -2.360 ± 2.446 χ^2/NDF : 38.4/30

Out: -10.277 ± 2.331 χ^2/NDF : 62.8/34

All: -6.508 ± 1.688 χ^2/NDF : 106.7/65

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8958.961+/-1.856 χ^2/NDF : 364726.4/15

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: 9032.767+/-1.352 χ^2/NDF : 642298.1/29

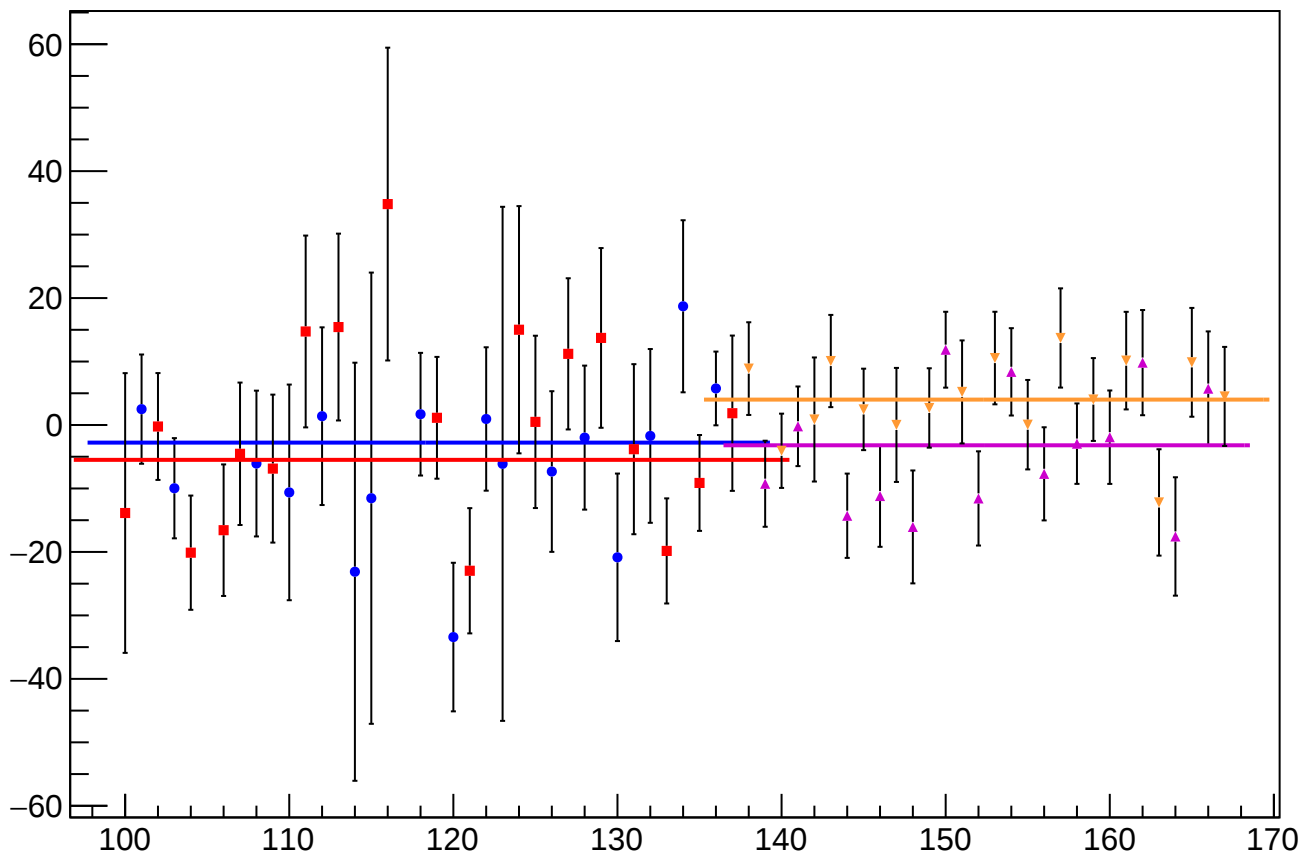
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

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

Out: 9865.520+/-1.649 χ^2/NDF : 1978332.6/34

All: 9919.408+/-1.193 χ^2/NDF : 3628504.3/65

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.774 ± 2.732 $\chi^2/\text{NDF}: 15.9/16$

Left Out: 4.003 ± 1.842 $\chi^2/\text{NDF}: 11.0/15$

Right Out: -5.491 ± 2.587 $\chi^2/\text{NDF}: 23.2/18$

Left In: -3.197 ± 1.940 $\chi^2/\text{NDF}: 23.6/13$

Left: 0.590 ± 1.336 $\chi^2/\text{NDF}: 41.8/29$

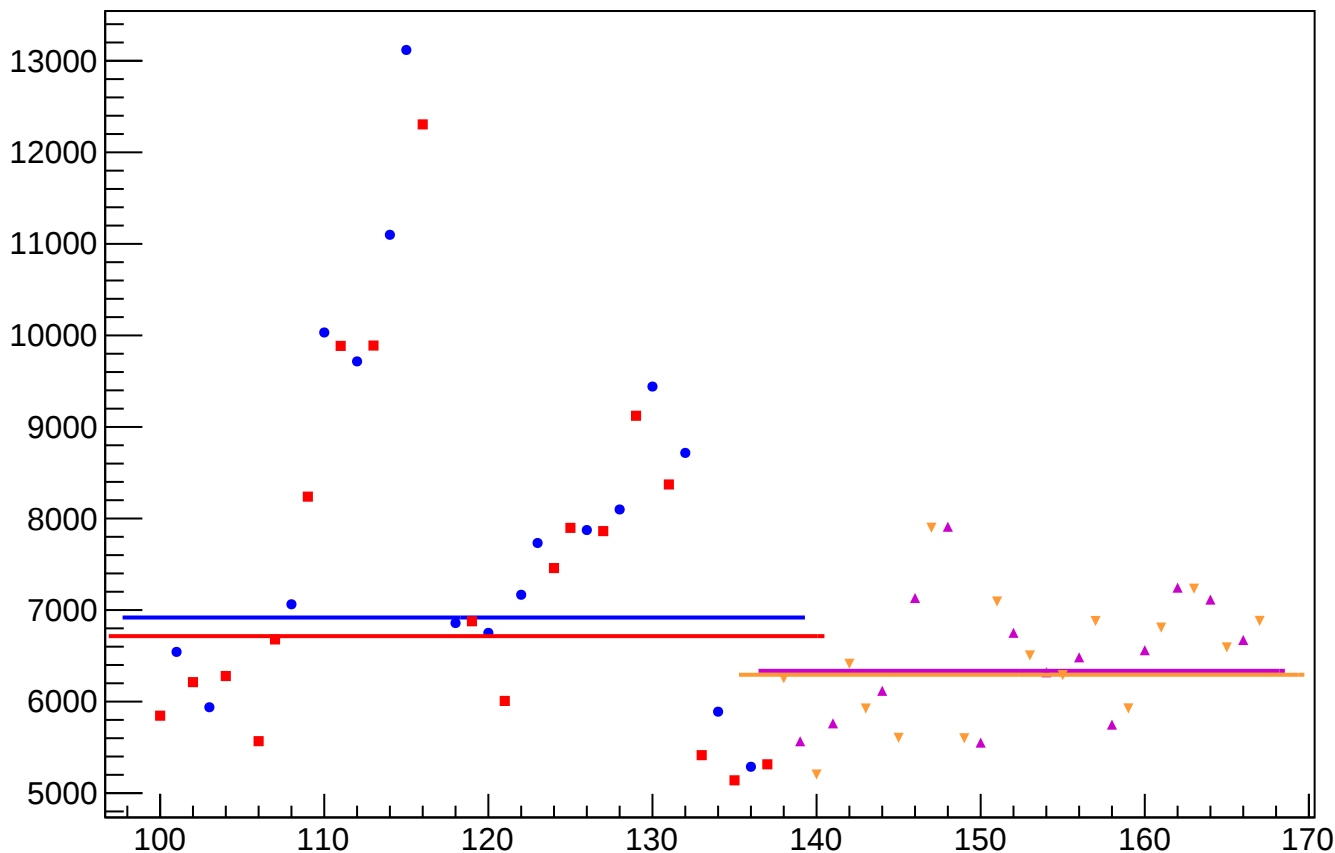
Right: -4.206 ± 1.879 $\chi^2/\text{NDF}: 39.6/35$

In: -3.055 ± 1.582 $\chi^2/\text{NDF}: 39.5/30$

Out: 0.810 ± 1.501 $\chi^2/\text{NDF}: 43.1/34$

All: -1.021 ± 1.089 $\chi^2/\text{NDF}: 85.7/65$

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6293.103 $\pm$ 1.302 χ^2/NDF : 273185.4/15

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: 6313.281 $\pm$ 0.945 χ^2/NDF : 502060.3/29

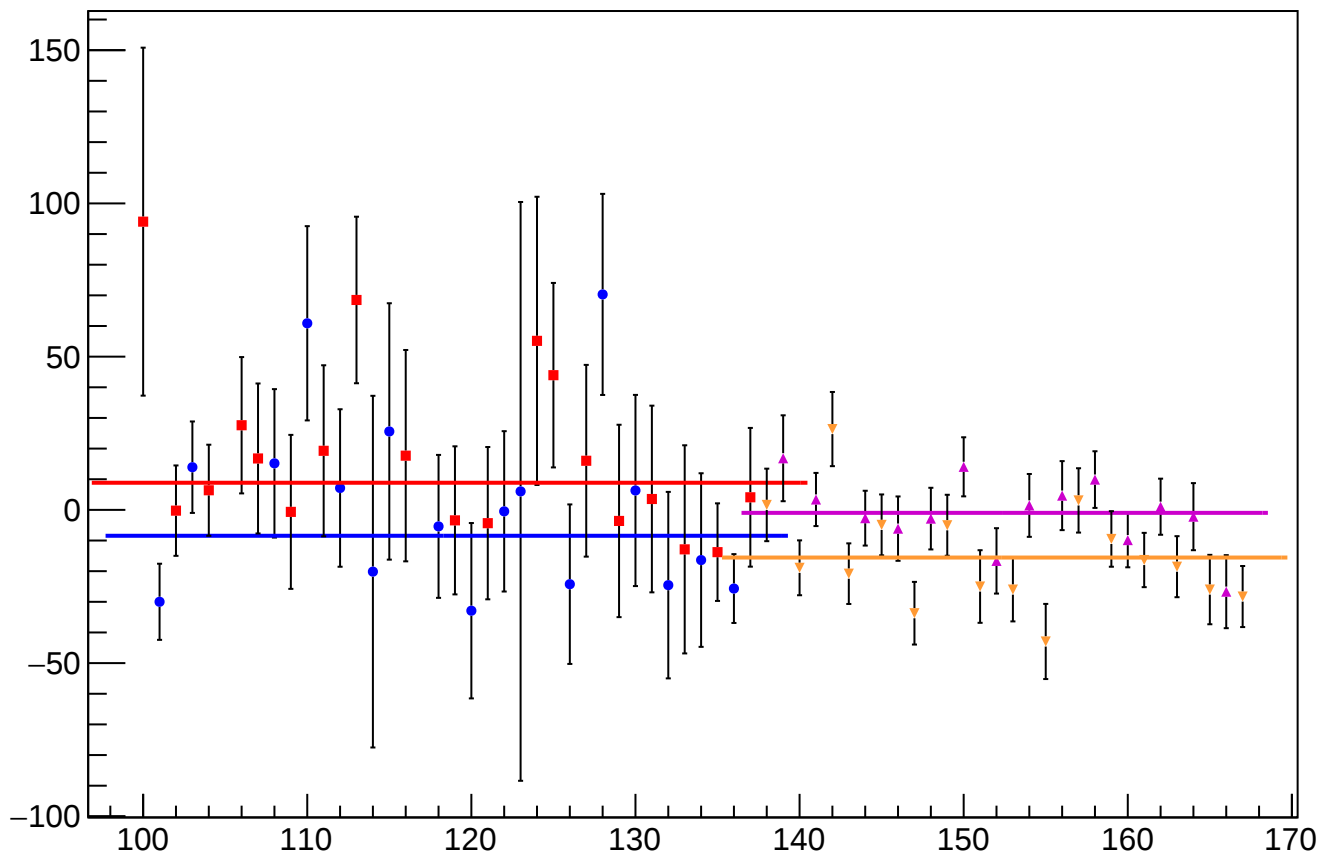
Right: 6811.237 $\pm$ 1.328 χ^2/NDF : 1248897.6/35

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

Out: 6435.002 $\pm$ 1.061 χ^2/NDF : 964490.3/34

All: 6480.523 $\pm$ 0.770 χ^2/NDF : 1844293.2/65

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -15.550 $\pm$ 2.569 χ^2/NDF : 32.8/15

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

Left In: -0.972 $\pm$ 2.687 χ^2/NDF : 14.2/13

Left: -8.587 $\pm$ 1.857 χ^2/NDF : 62.3/29

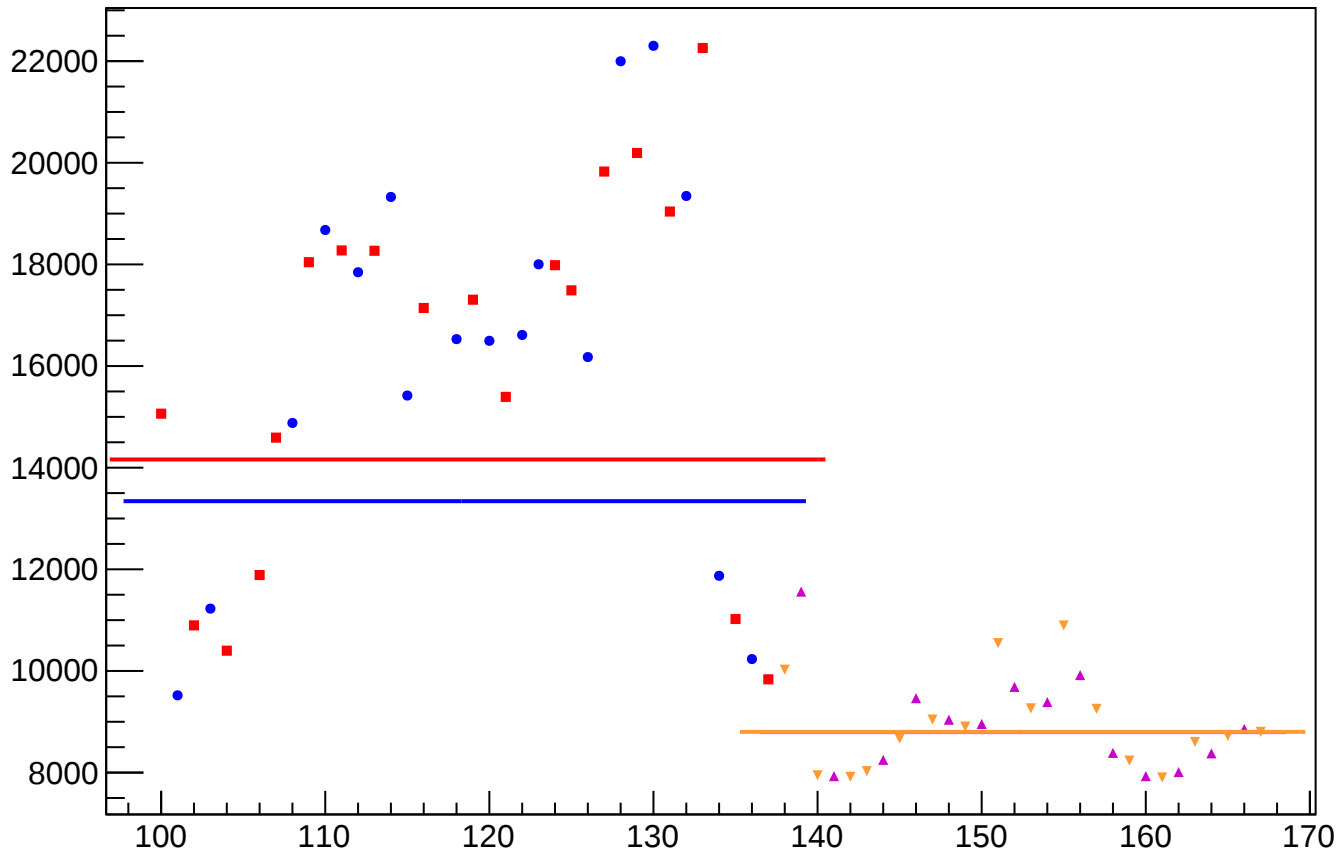
Right: 0.019 $\pm$ 3.854 χ^2/NDF : 41.3/35

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

Out: -11.189 $\pm$ 2.329 χ^2/NDF : 63.1/34

All: -6.965 $\pm$ 1.673 χ^2/NDF : 107.6/65

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8801.357+/-1.817 χ^2/NDF : 202857.0/15

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

Left In: 8797.085+/-1.900 χ^2/NDF : 196176.7/13

Left: 8799.316+/-1.313 χ^2/NDF : 399036.4/29

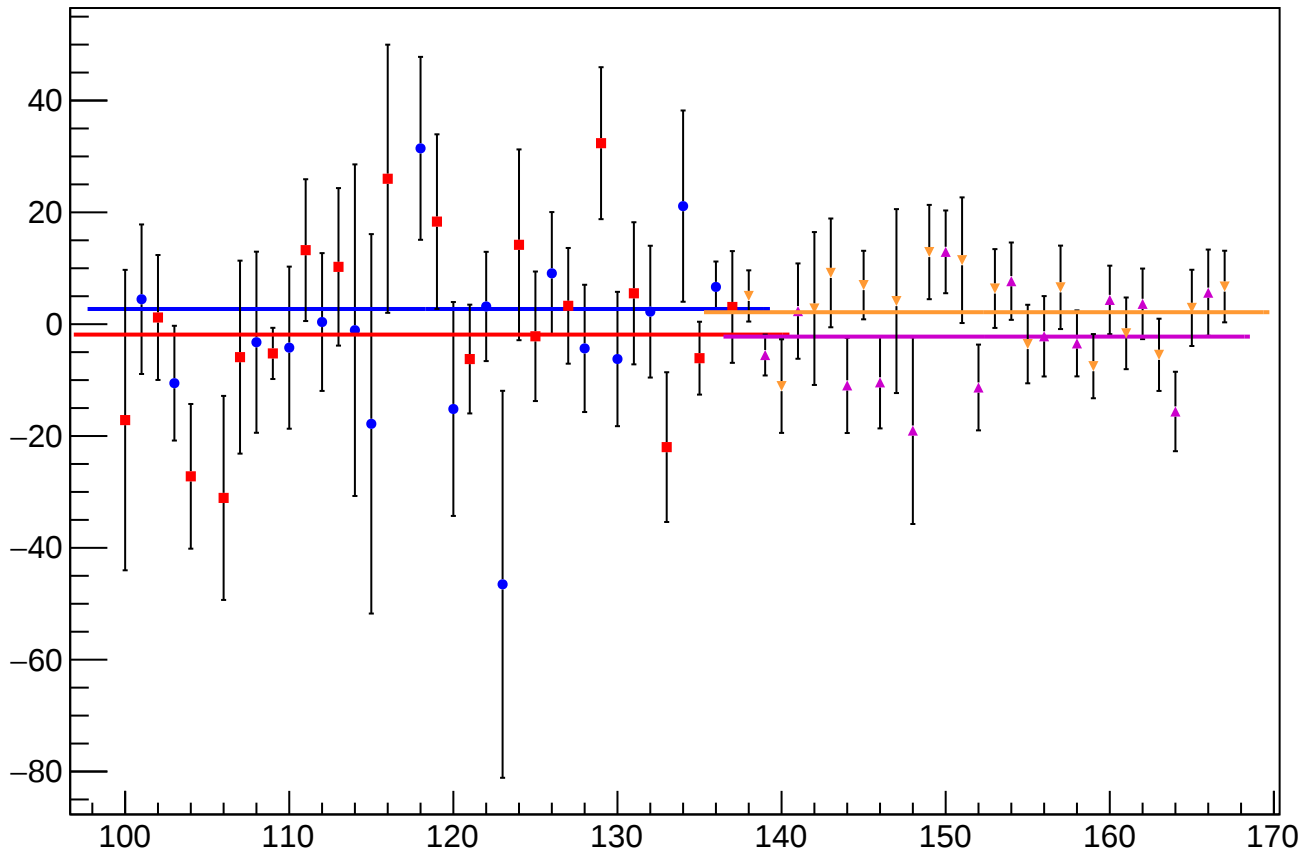
Right: 13742.695+/-2.725 χ^2/NDF : 1999035.6/35

In: 9700.712+/-1.701 χ^2/NDF : 2378206.9/30

Out: 9759.290+/-1.647 χ^2/NDF : 2690216.4/34

All: 9730.946+/-1.183 χ^2/NDF : 5069035.8/65

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 ± 2.752 $\chi^2/\text{NDF}: 11.6/16$

Left Out: 2.142 ± 1.787 $\chi^2/\text{NDF}: 12.8/15$

Right Out: -1.861 ± 2.439 $\chi^2/\text{NDF}: 23.5/18$

Left In: -2.224 ± 1.786 $\chi^2/\text{NDF}: 18.4/13$

Left: -0.041 ± 1.263 $\chi^2/\text{NDF}: 34.3/29$

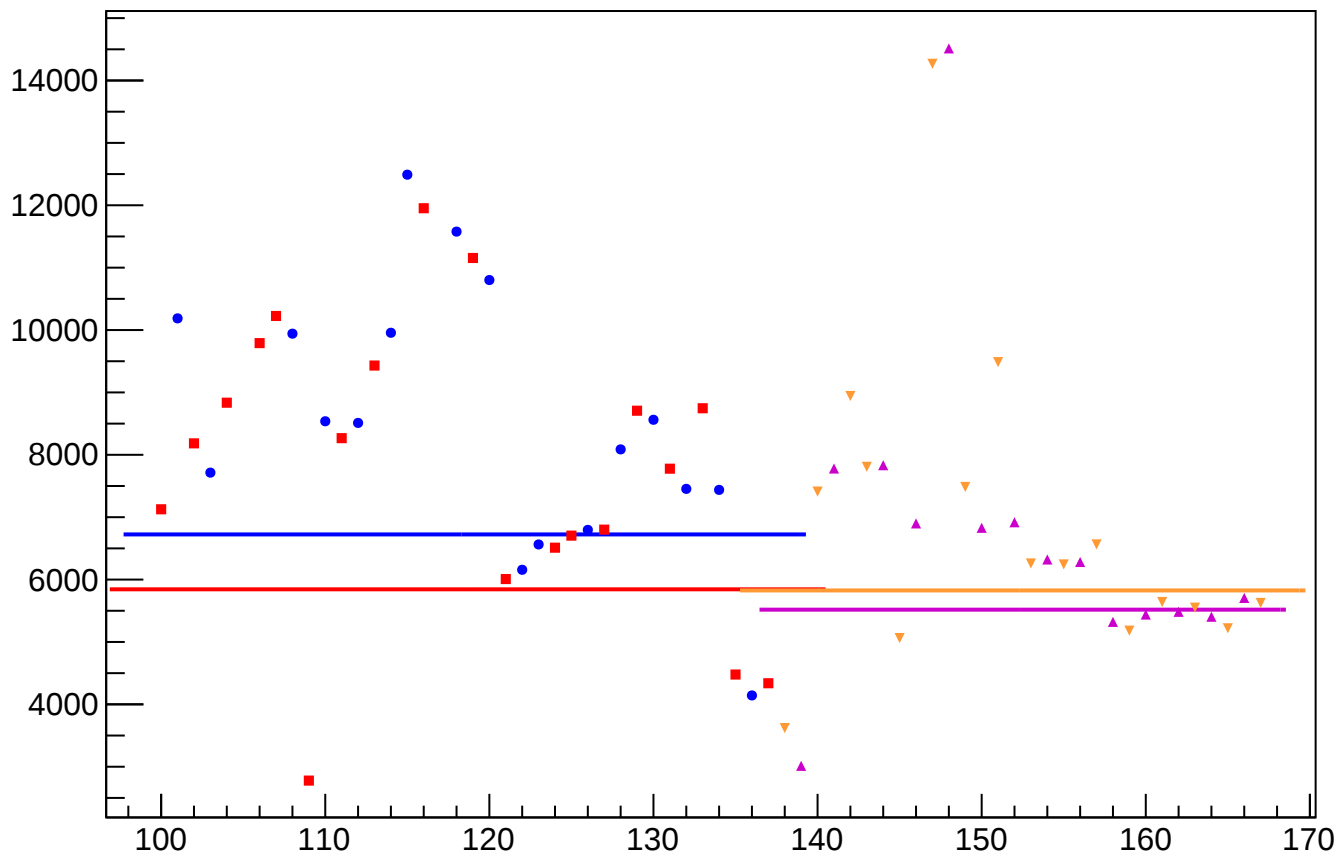
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: -0.759 ± 1.498 $\chi^2/\text{NDF}: 32.4/30$

Out: 0.744 ± 1.441 $\chi^2/\text{NDF}: 38.1/34$

All: 0.022 ± 1.039 $\chi^2/\text{NDF}: 71.0/65$

diff_bpm1Y_rms vs Slug, Sign Corrected



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

Left Out: 5825.979+/-1.264 χ^2/NDF : 1653003.1/15

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: 5671.857+/-0.893 χ^2/NDF : 3729411.2/29

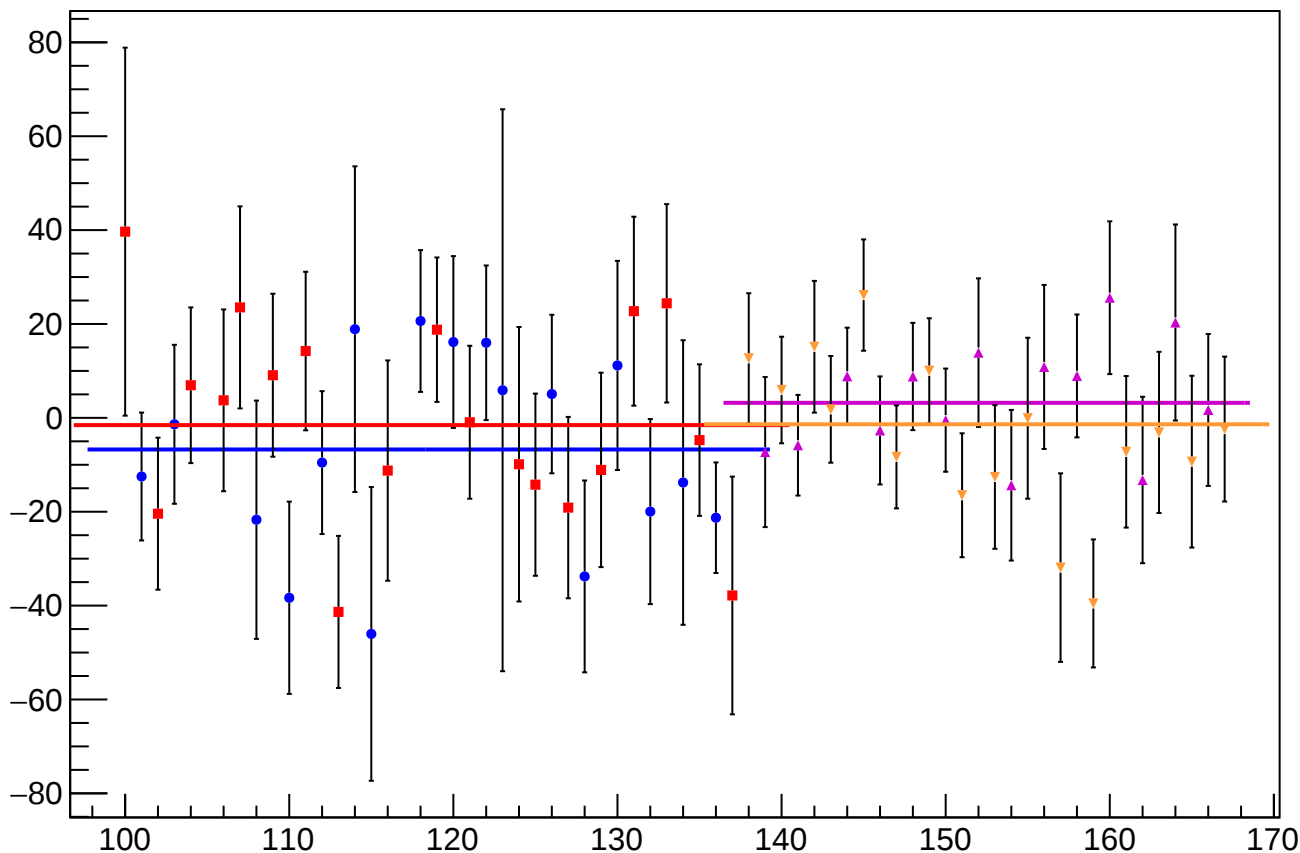
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

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

Out: 5832.214+/-1.019 χ^2/NDF : 3930296.6/34

All: 5852.952+/-0.735 χ^2/NDF : 7640122.7/65

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 $\pm$ 4.513 χ^2/NDF : 16.9/16

Left Out: -1.370 $\pm$ 3.433 χ^2/NDF : 22.1/15

Right Out: -1.549 $\pm$ 4.372 χ^2/NDF : 20.0/18

Left In: 3.200 $\pm$ 3.640 χ^2/NDF : 7.5/13

Left: 0.781 $\pm$ 2.497 χ^2/NDF : 30.4/29

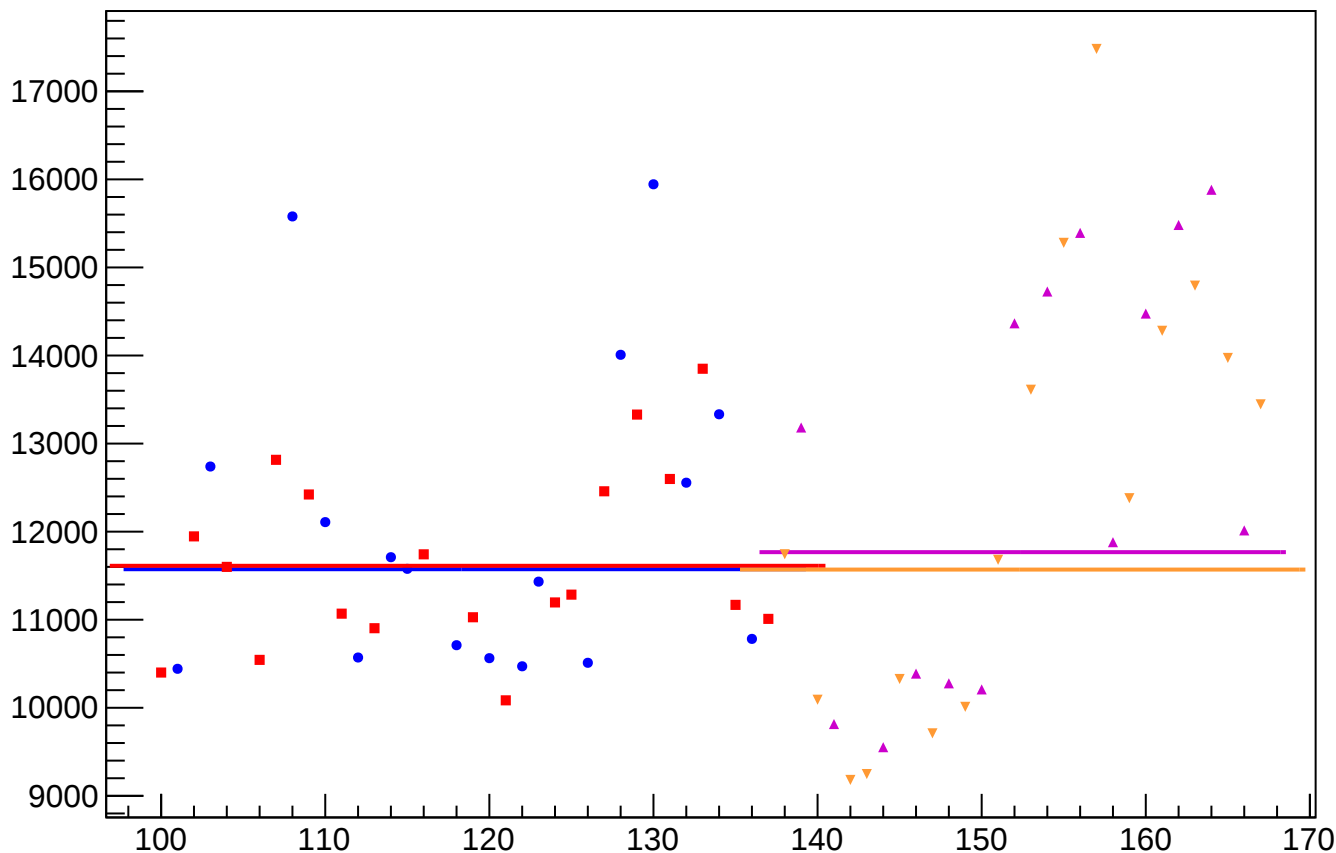
Right: -4.061 $\pm$ 3.140 χ^2/NDF : 37.5/35

In: -0.716 $\pm$ 2.833 χ^2/NDF : 27.3/30

Out: -1.439 $\pm$ 2.700 χ^2/NDF : 42.0/34

All: -1.095 $\pm$ 1.955 χ^2/NDF : 69.4/65

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 11569.380+/-2.427 χ^2/NDF : 794506.1/15

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: 11662.505+/-1.766 χ^2/NDF : 1503635.5/29

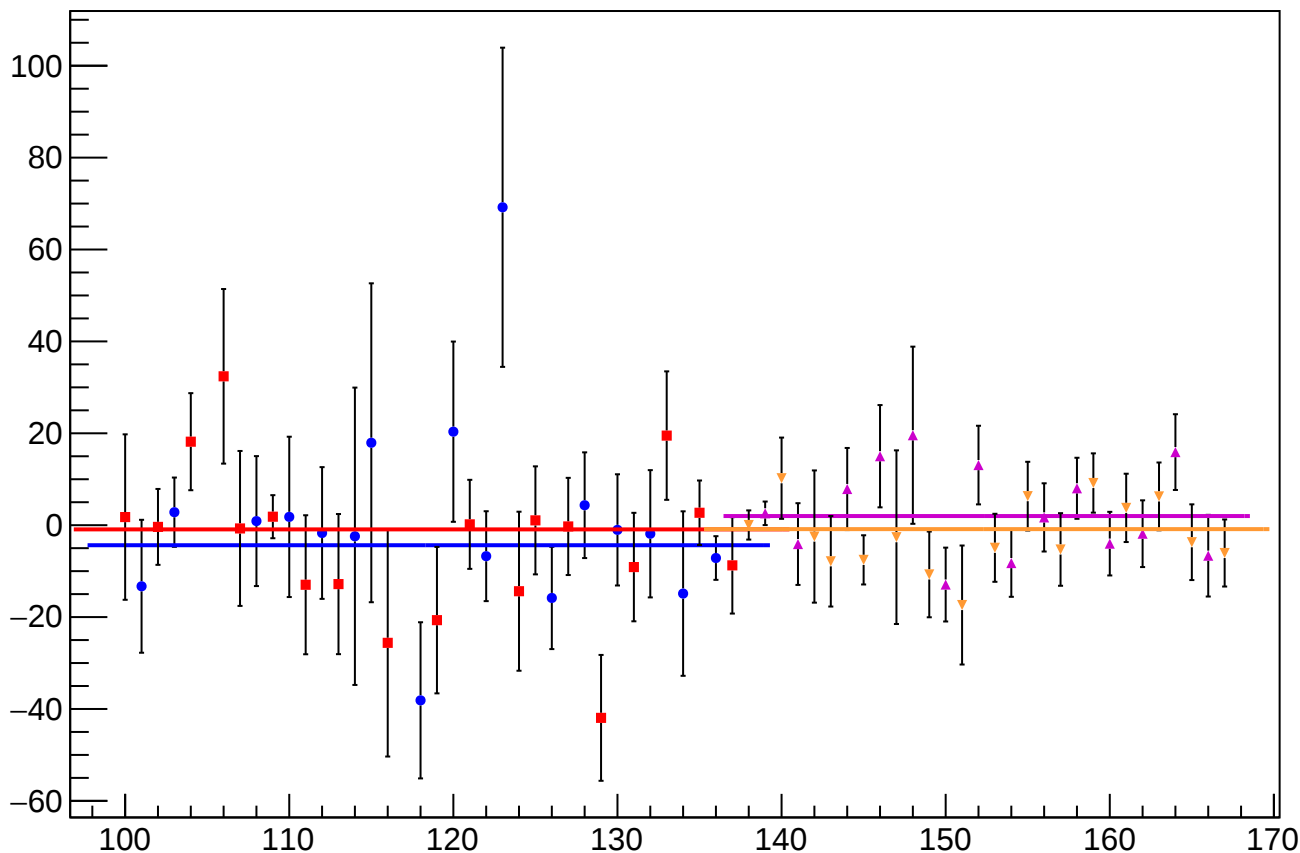
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

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

Out: 11585.716+/-1.909 χ^2/NDF : 888933.0/34

All: 11635.759+/-1.382 χ^2/NDF : 1837346.4/6

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: -0.856 ± 1.745 χ^2/NDF : 12.4/15

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: 0.601 ± 1.220 χ^2/NDF : 29.6/29

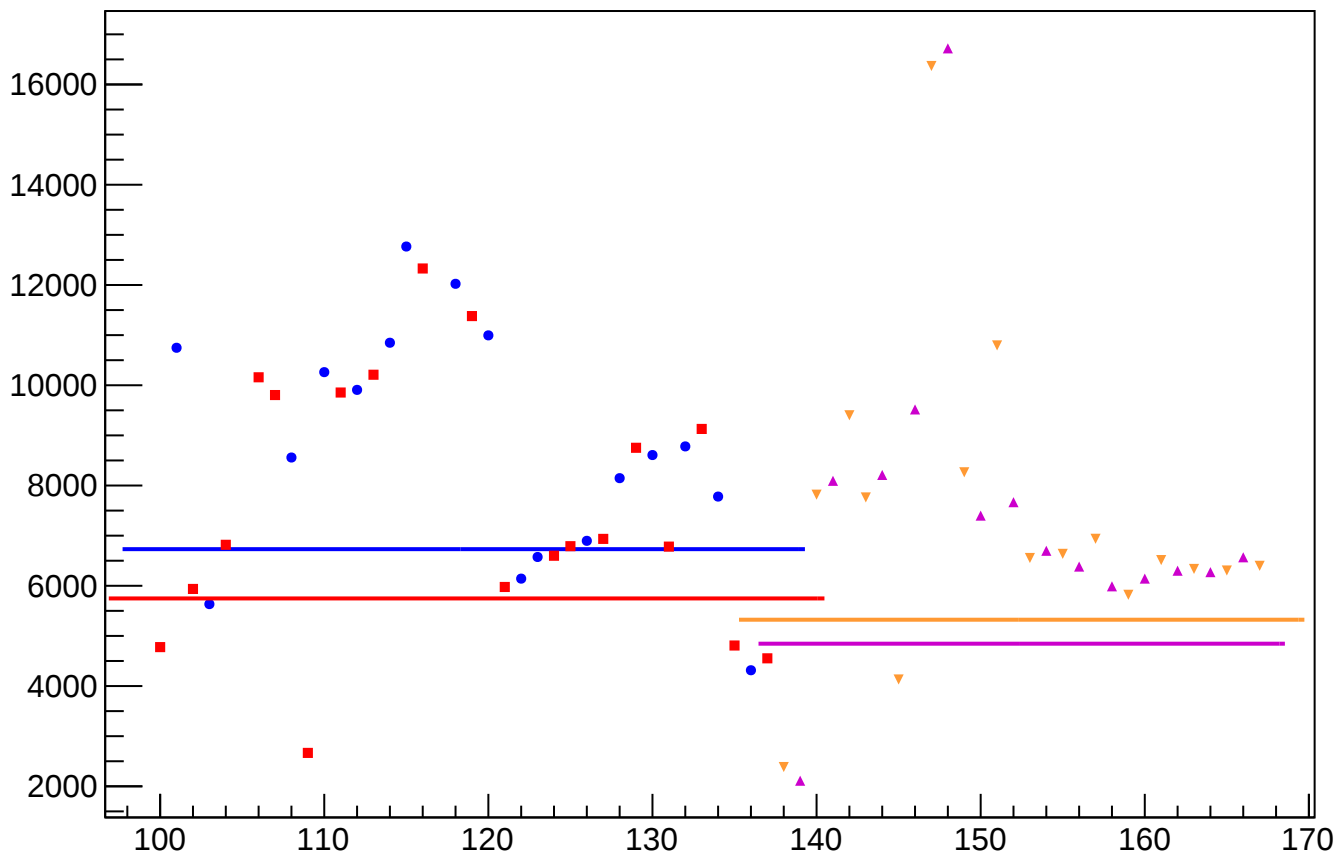
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: 0.251 ± 1.453 χ^2/NDF : 34.2/30

Out: -0.876 ± 1.417 χ^2/NDF : 35.9/34

All: -0.327 ± 1.014 χ^2/NDF : 70.4/65

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 +/- 1.963

χ^2/NDF : 1445240.4/16

Left: 5078.480 +/- 0.862

χ^2/NDF : 8858808.2/29

Left Out: 5323.238 +/- 1.234

χ^2/NDF : 3863929.2/15

Right: 6173.310 +/- 1.292

χ^2/NDF : 3749669.1/35

Right Out: 5747.643 +/- 1.716

χ^2/NDF : 2162236.7/18

In: 5361.350 +/- 1.027

χ^2/NDF : 7033331.9/30

Out: 5467.985 +/- 1.002

χ^2/NDF : 6066495.6/34

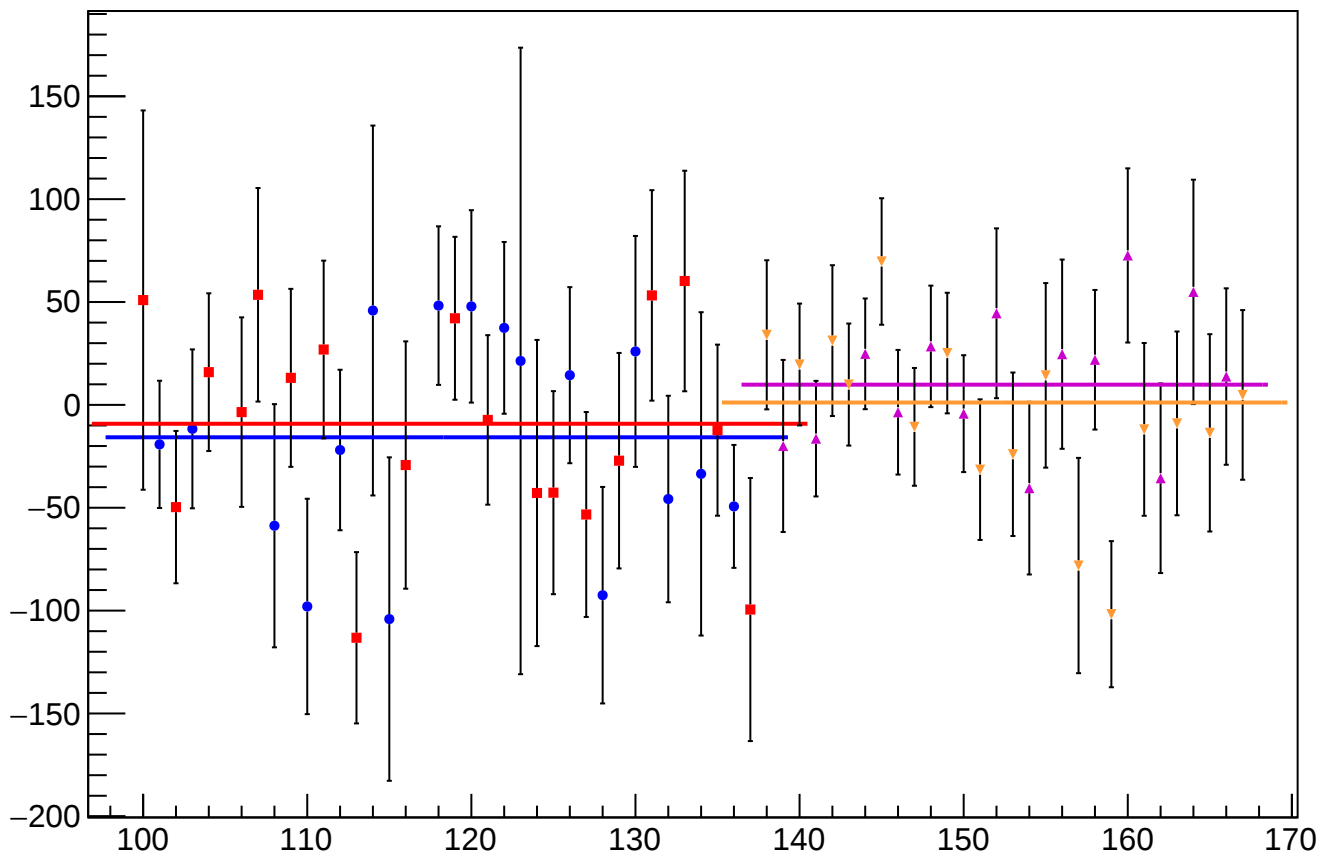
Left In: 4844.968 +/- 1.206

χ^2/NDF : 4918029.6/13

All: 5416.004 +/- 0.717

χ^2/NDF : 13105350.0/6

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -15.751 $\pm$ 11.207 χ^2/NDF : 15.9/16

Left Out: 1.147 $\pm$ 8.958 χ^2/NDF :20.1/15

Right Out: -9.179 $\pm$ 10.889 χ^2/NDF : 19.3/18

Left In: 9.825 $\pm$ 9.492 χ^2/NDF :8.8/13

Left: 5.236 $\pm$ 6.515 χ^2/NDF : 29.3/29

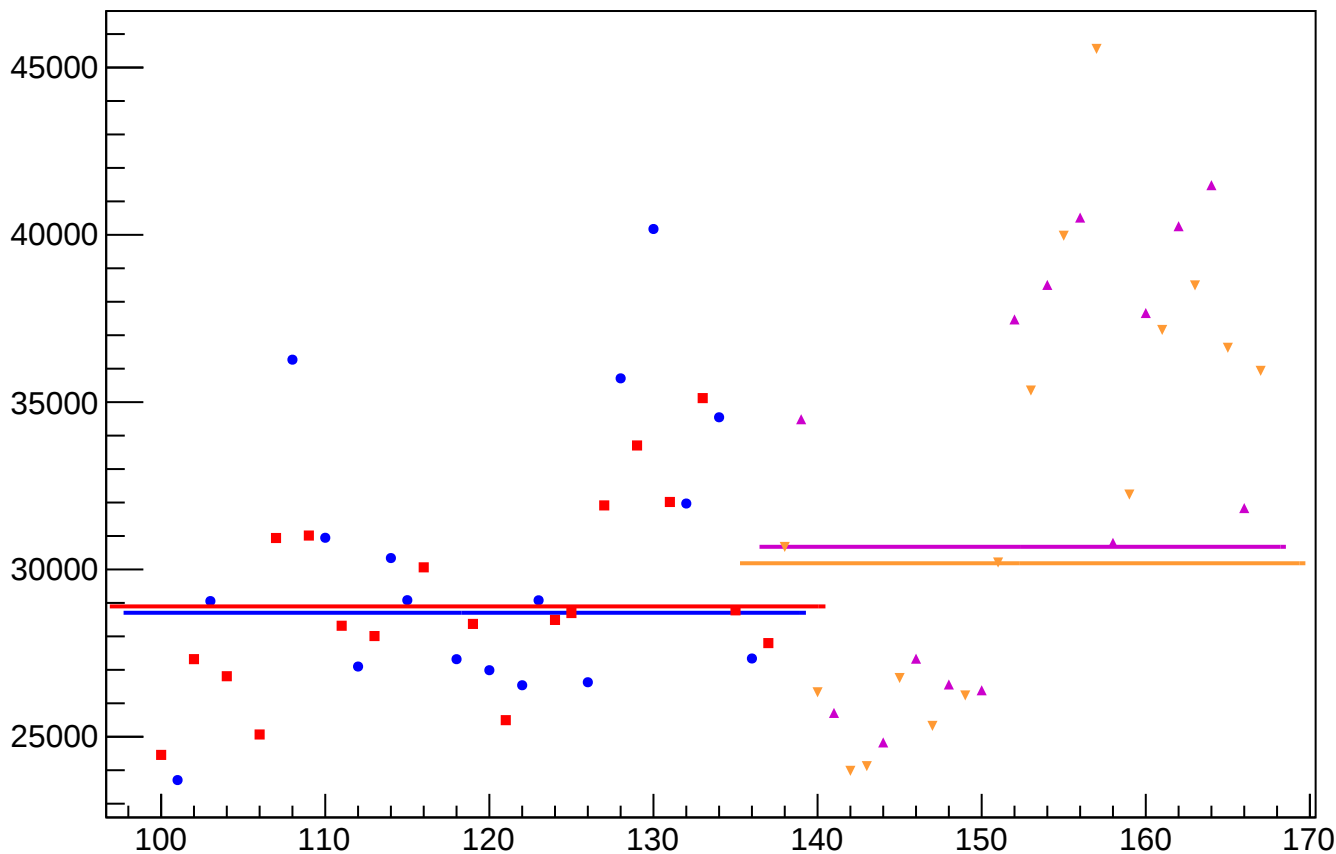
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

In: -0.857 $\pm$ 7.243 χ^2/NDF :27.7/30

Out: -3.021 $\pm$ 6.918 χ^2/NDF :39.9/34

All: -1.989 $\pm$ 5.003 χ^2/NDF : 67.7/65

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569+/-7.925 χ^2/NDF : 250992.5/16

Left Out: 30185.235+/-6.335 χ^2/NDF : 801483.3/15

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: 30416.941+/-4.607 χ^2/NDF : 1522759.6/29

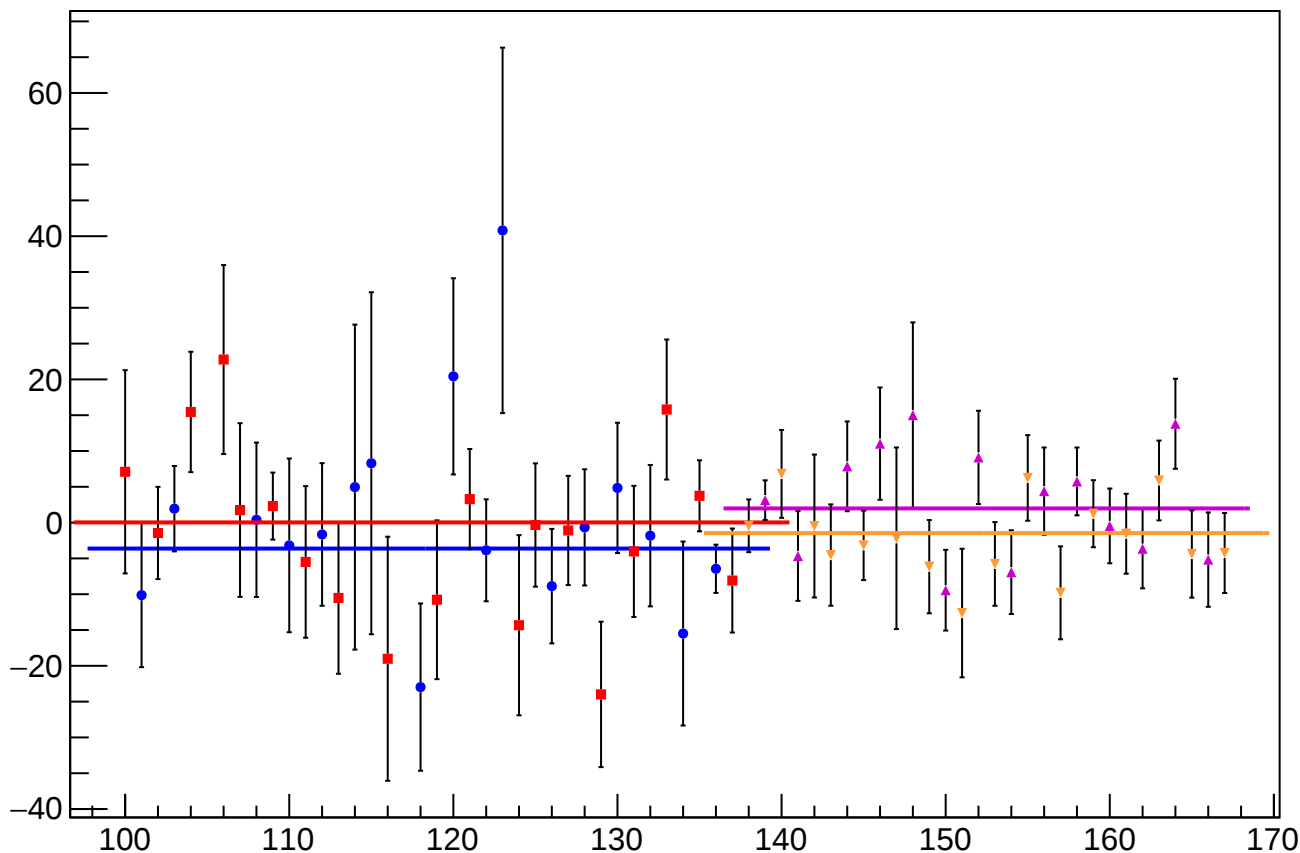
Right: 28803.288+/-5.522 χ^2/NDF : 362500.7/35

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

Out: 29664.669+/-4.892 χ^2/NDF : 929427.2/34

All: 29754.813+/-3.538 χ^2/NDF : 1935606.7/6

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -1.468 ± 1.467 χ^2/NDF : 10.7/15

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: 0.280 ± 1.030 χ^2/NDF : 32.4/29

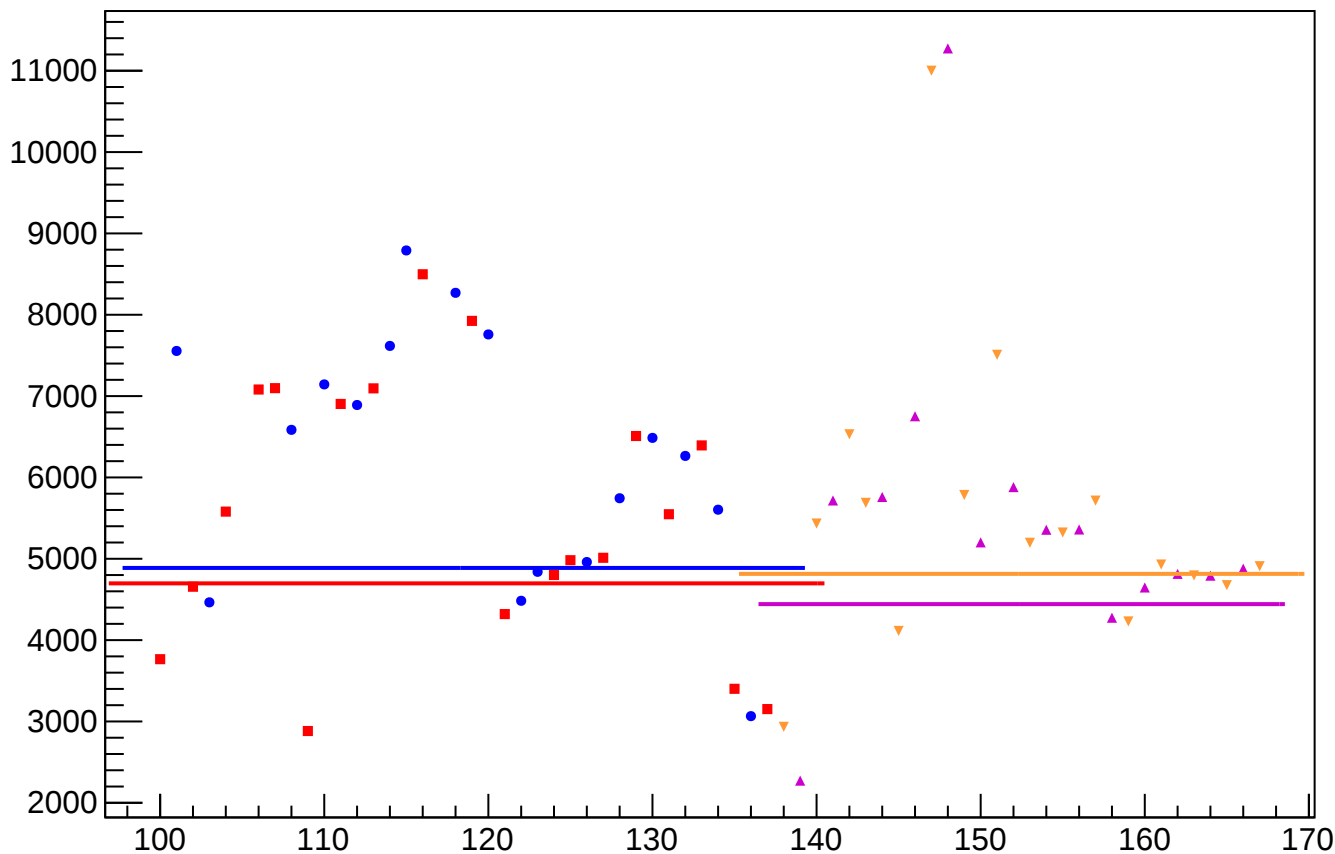
Right: -1.690 ± 1.376 χ^2/NDF : 37.6/35

In: 0.063 ± 1.173 χ^2/NDF : 37.8/30

Out: -0.906 ± 1.159 χ^2/NDF : 33.2/34

All: -0.428 ± 0.824 χ^2/NDF : 71.3/65

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.515 $\pm$ 1.418 χ^2 /NDF: 1409296.8/16

Left Out: 4814.487 $\pm$ 1.037 χ^2 /NDF: 1468278.0/15

Right Out: 4697.726 $\pm$ 1.336 χ^2 /NDF: 1313121.0/18

Left In: 4442.535 $\pm$ 1.023 χ^2 /NDF: 2393548.3/13

Left: 4625.963 $\pm$ 0.728 χ^2 /NDF: 3927025.0/29

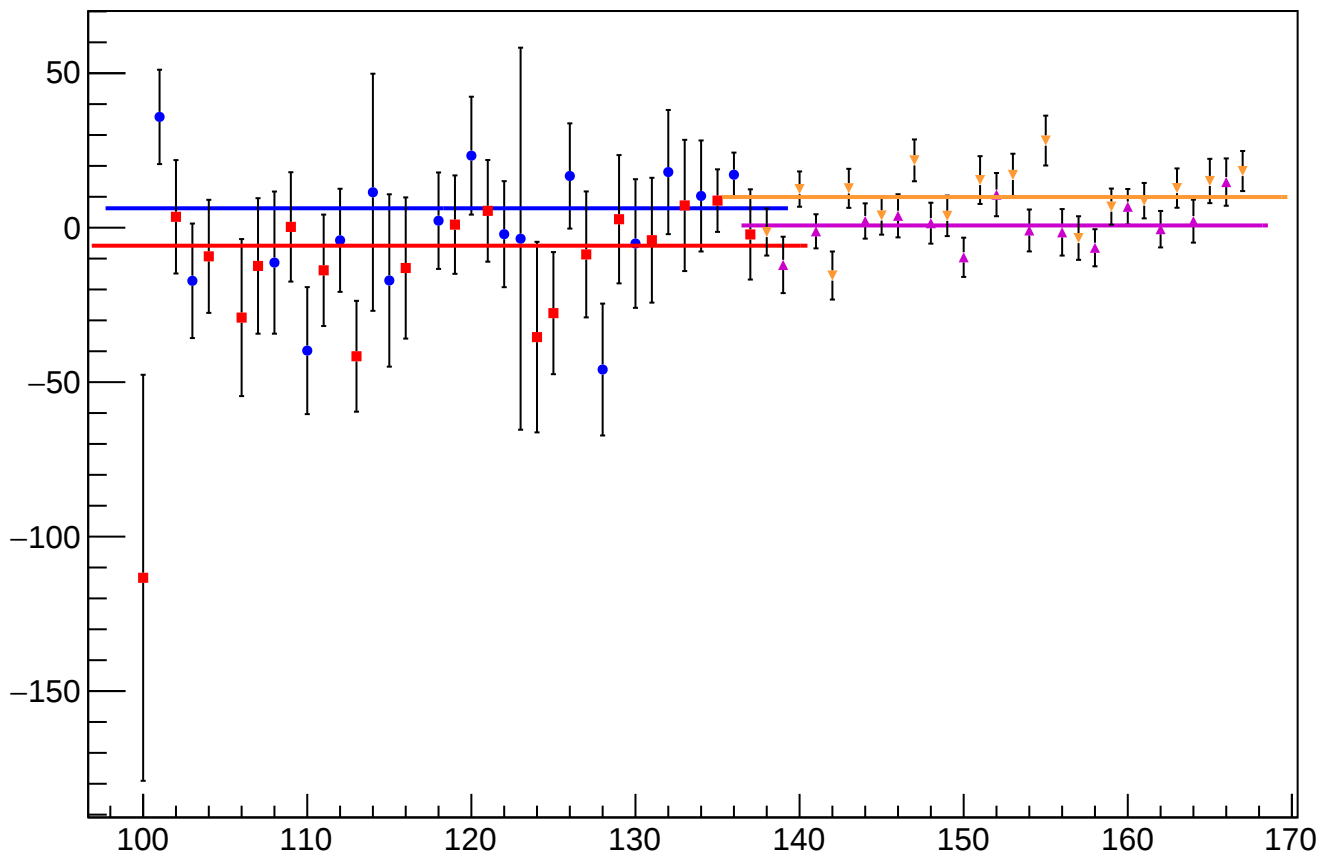
Right: 4786.972 $\pm$ 0.973 χ^2 /NDF: 2731901.7/35

In: 4594.783 $\pm$ 0.830 χ^2 /NDF: 3867585.7/30

Out: 4770.601 $\pm$ 0.819 χ^2 /NDF: 2786163.4/34

All: 4683.800 $\pm$ 0.583 χ^2 /NDF: 6676484.1/65

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 9.923 ± 1.663 $\chi^2/\text{NDF}: 31.2/15$

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: 5.547 ± 1.204 $\chi^2/\text{NDF}: 58.9/29$

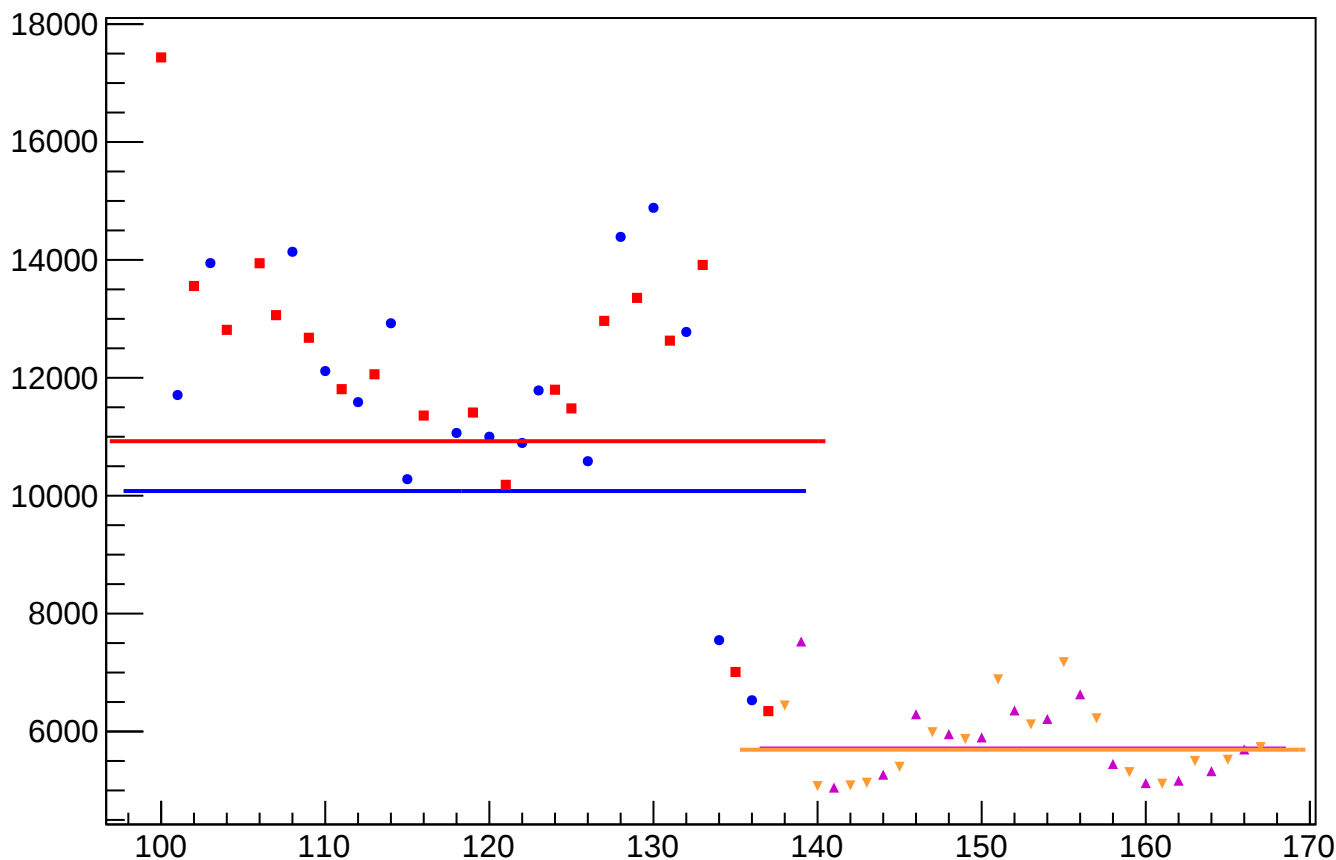
Right: 0.454 ± 2.927 $\chi^2/\text{NDF}: 40.6/35$

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

Out: 7.804 ± 1.547 $\chi^2/\text{NDF}: 57.0/34$

All: 4.809 ± 1.114 $\chi^2/\text{NDF}: 102.1/65$

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5690.782 $\pm$ 1.176 χ^2 /NDF:246629.5/15

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: 5700.664 $\pm$ 0.852 χ^2 /NDF: 490891.8/29

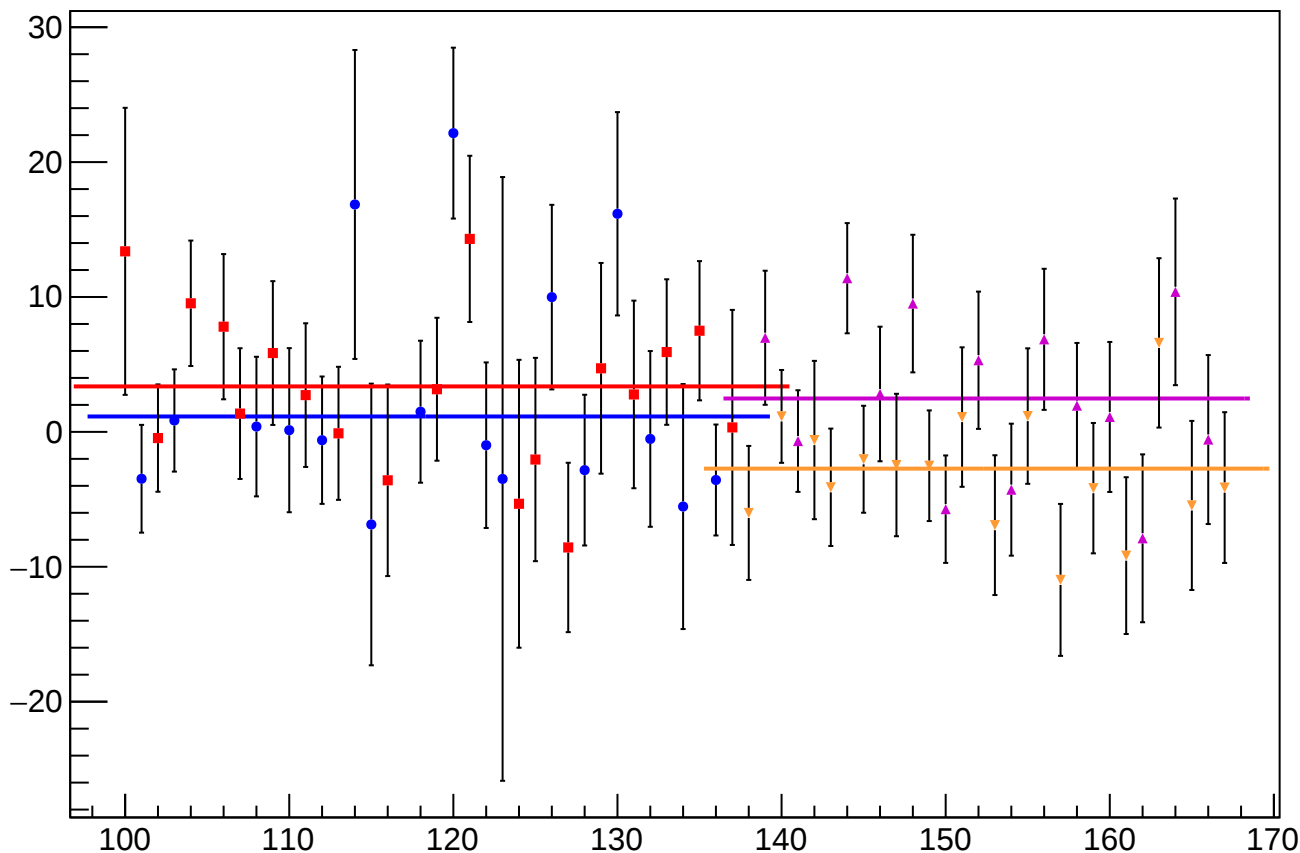
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

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

Out: 6394.865 $\pm$ 1.094 χ^2 /NDF:3678707.8/34

All: 6393.645 $\pm$ 0.788 χ^2 /NDF: 6867599.3/65

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.725 ± 1.225 $\chi^2/\text{NDF}: 9.7/15$

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: -0.305 ± 0.895 $\chi^2/\text{NDF}: 37.8/29$

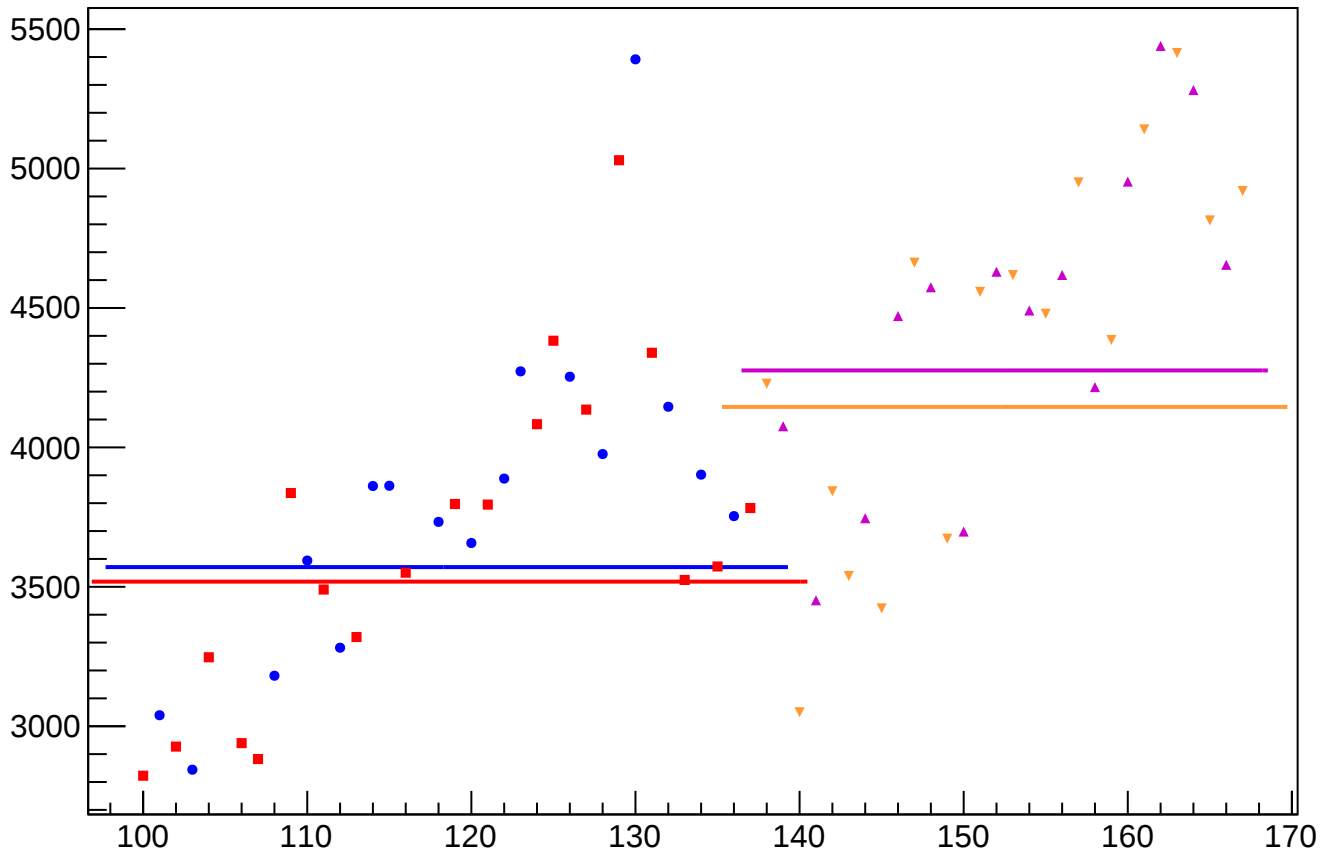
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

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

Out: 0.065 ± 0.902 $\chi^2/\text{NDF}: 36.1/34$

All: 0.905 ± 0.656 $\chi^2/\text{NDF}: 81.4/65$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4145.225 $\pm$ 0.866 χ^2 /NDF: 644990.7/15

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: 4206.069 $\pm$ 0.633 χ^2 /NDF: 1011930.8/29

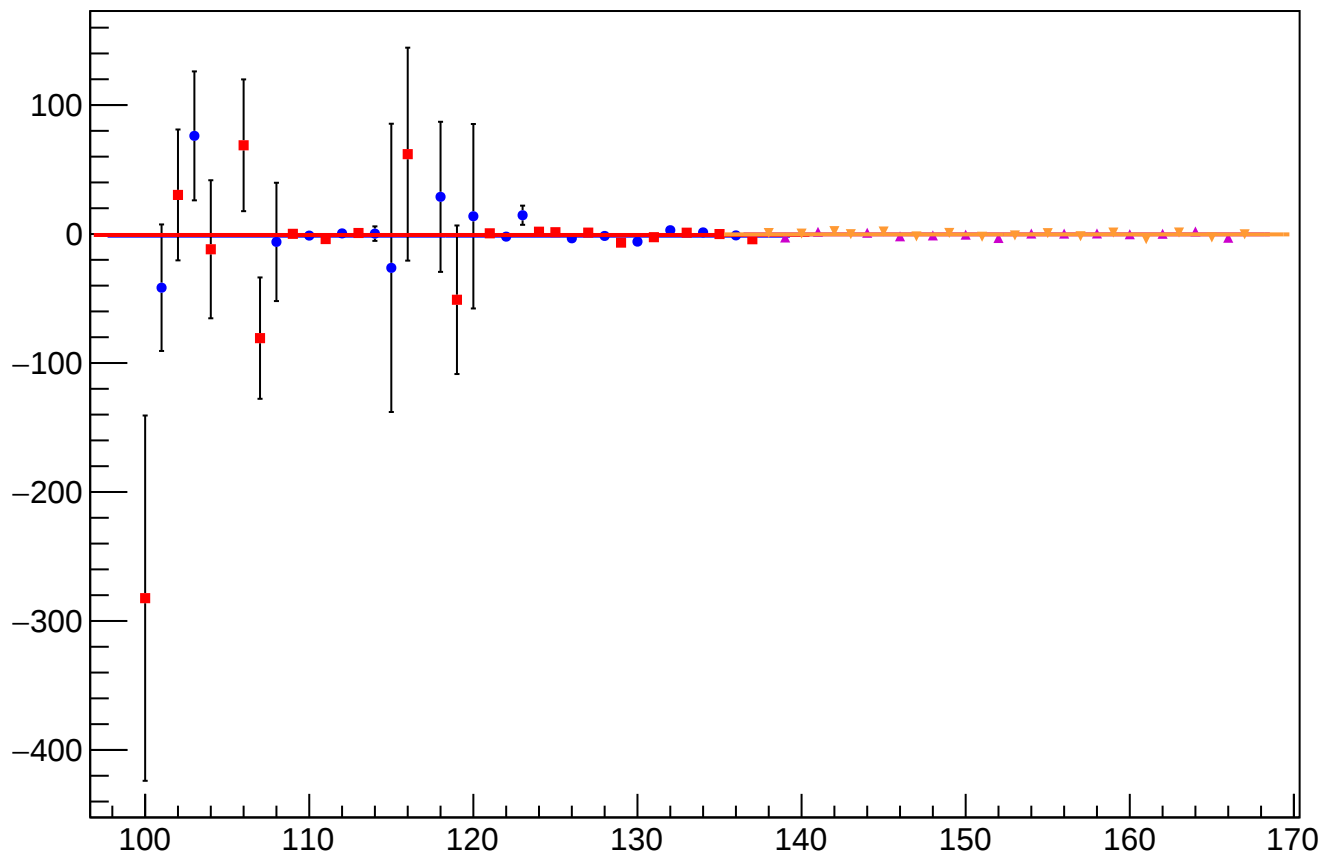
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

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

Out: 3858.479 $\pm$ 0.638 χ^2 /NDF: 1177860.3/34

All: 3899.134 $\pm$ 0.464 χ^2 /NDF: 2123483.3/65

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.273 ± 0.307 χ^2/NDF : 29.8/15

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: -0.255 ± 0.221 χ^2/NDF : 51.7/29

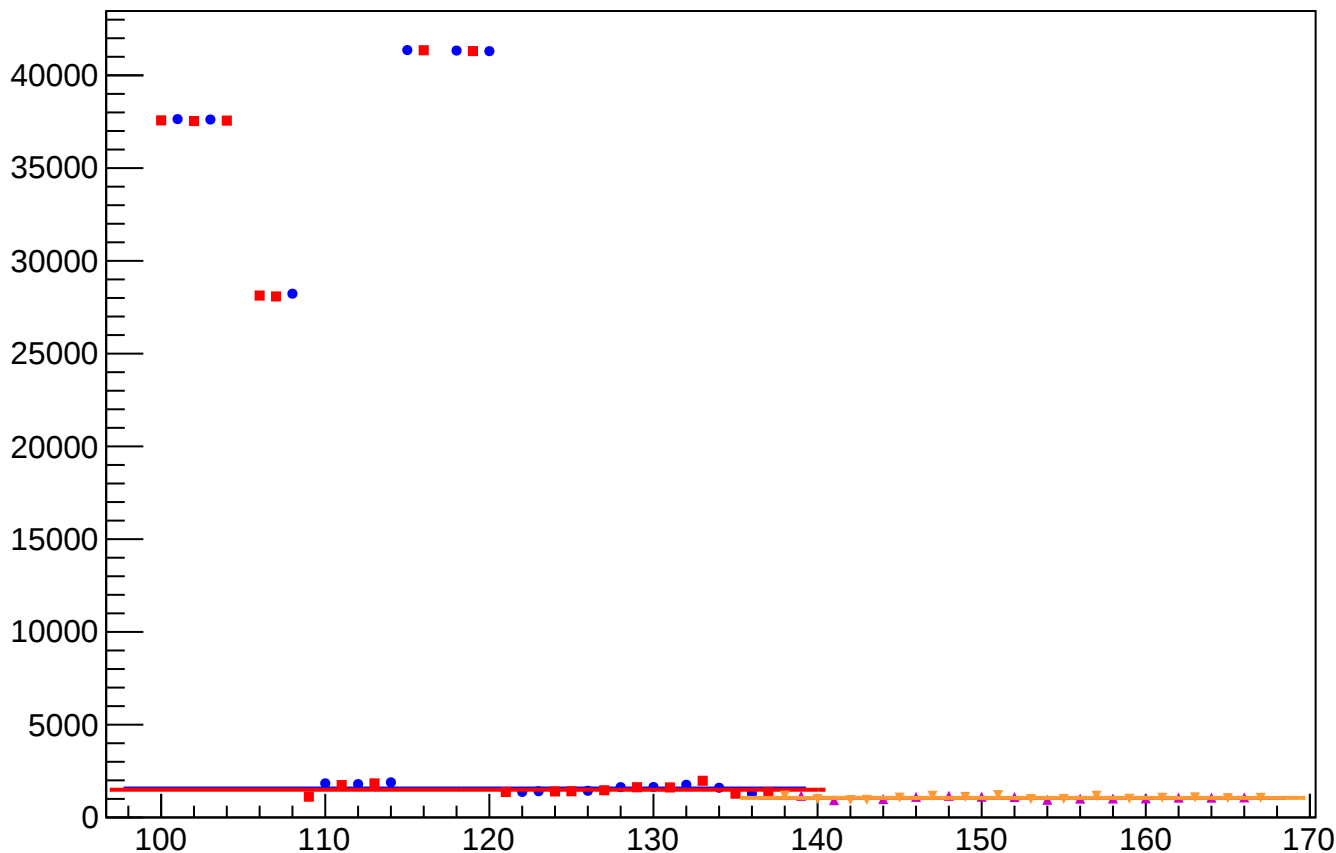
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.394 ± 0.294 χ^2/NDF : 39.8/30

Out: -0.346 ± 0.282 χ^2/NDF : 52.2/34

All: -0.369 ± 0.203 χ^2/NDF : 92.0/65

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1054.422 $\pm$ 0.217 χ^2/NDF : 129624.8/15

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

Left In: 1048.273 $\pm$ 0.226 χ^2/NDF : 98493.8/13

Left: 1051.470 $\pm$ 0.157 χ^2/NDF : 228503.6/29

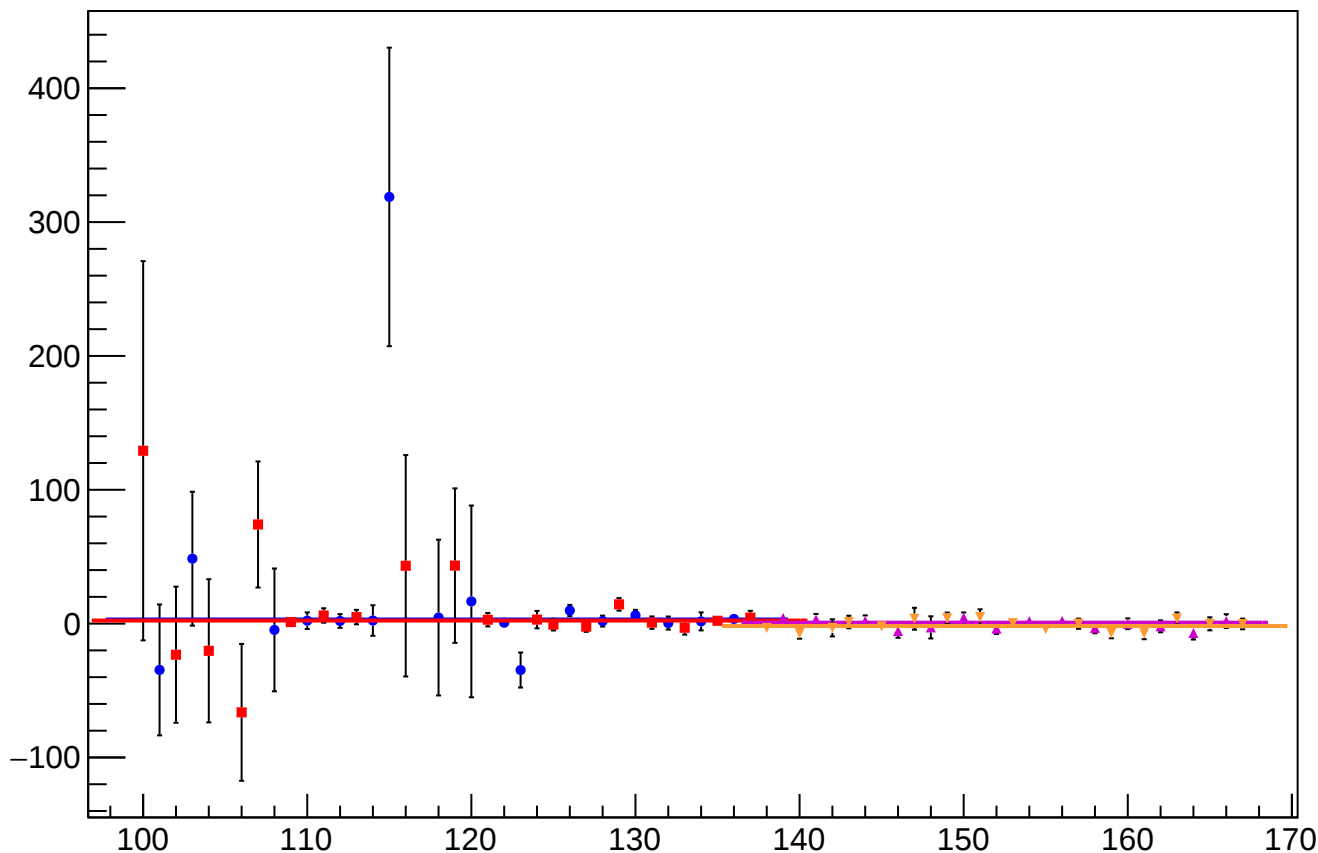
Right: 1525.146 $\pm$ 0.364 χ^2/NDF : 9654379.4/35

In: 1127.120 $\pm$ 0.208 χ^2/NDF : 5640879.4/30

Out: 1123.722 $\pm$ 0.199 χ^2/NDF : 5669770.1/34

All: 1125.350 $\pm$ 0.144 χ^2/NDF : 11310788.8/66

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -1.771 ± 1.005 $\chi^2/\text{NDF}: 12.1/15$

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

Left In: 0.716 ± 1.064 $\chi^2/\text{NDF}: 10.6/13$

Left: -0.599 ± 0.731 $\chi^2/\text{NDF}: 25.6/29$

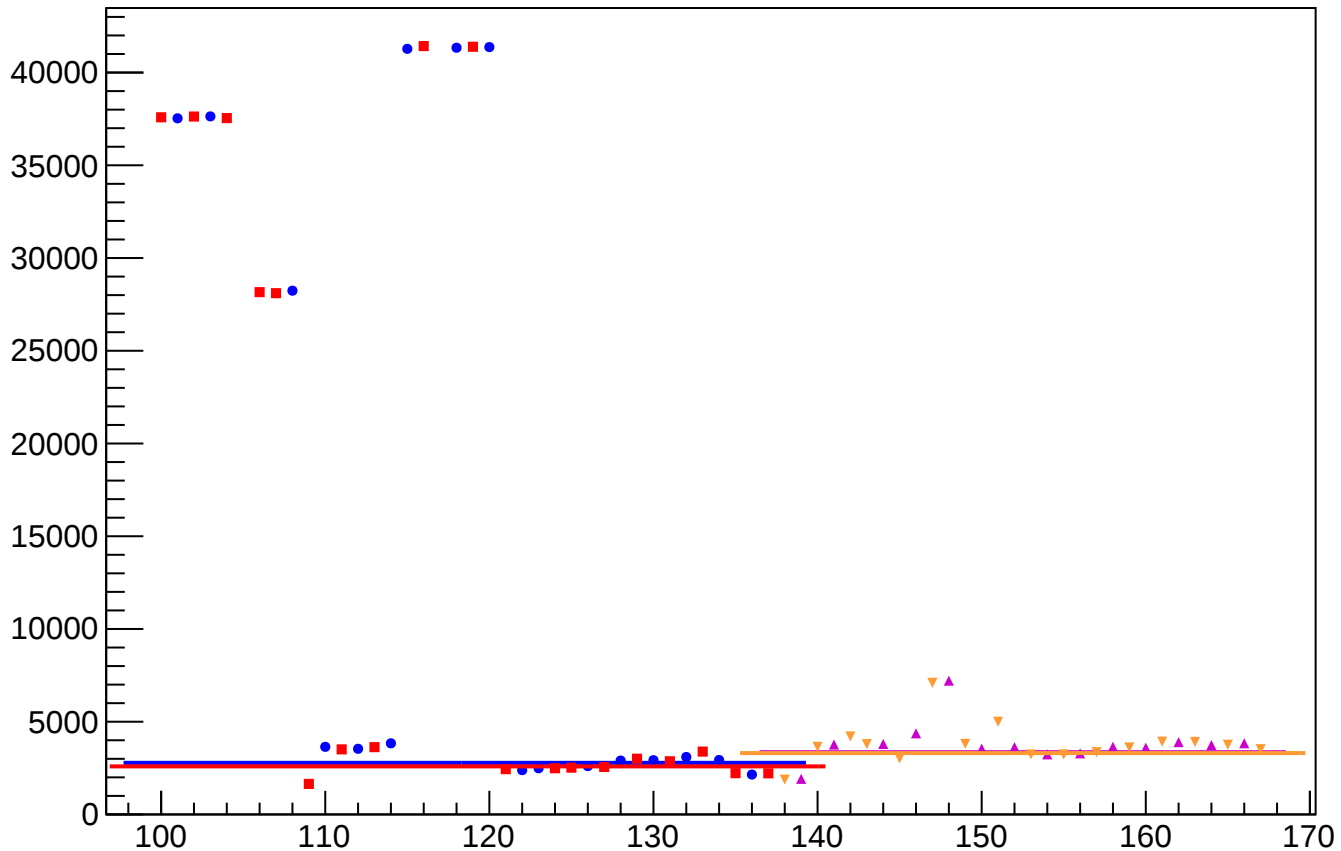
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.642 ± 0.829 $\chi^2/\text{NDF}: 34.4/30$

Out: -0.146 ± 0.779 $\chi^2/\text{NDF}: 35.6/34$

All: 0.693 ± 0.568 $\chi^2/\text{NDF}: 72.4/65$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3308.874+/-0.711 χ^2/NDF : 1616670.1/15

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: 3331.604+/-0.517 χ^2/NDF : 3007214.8/29

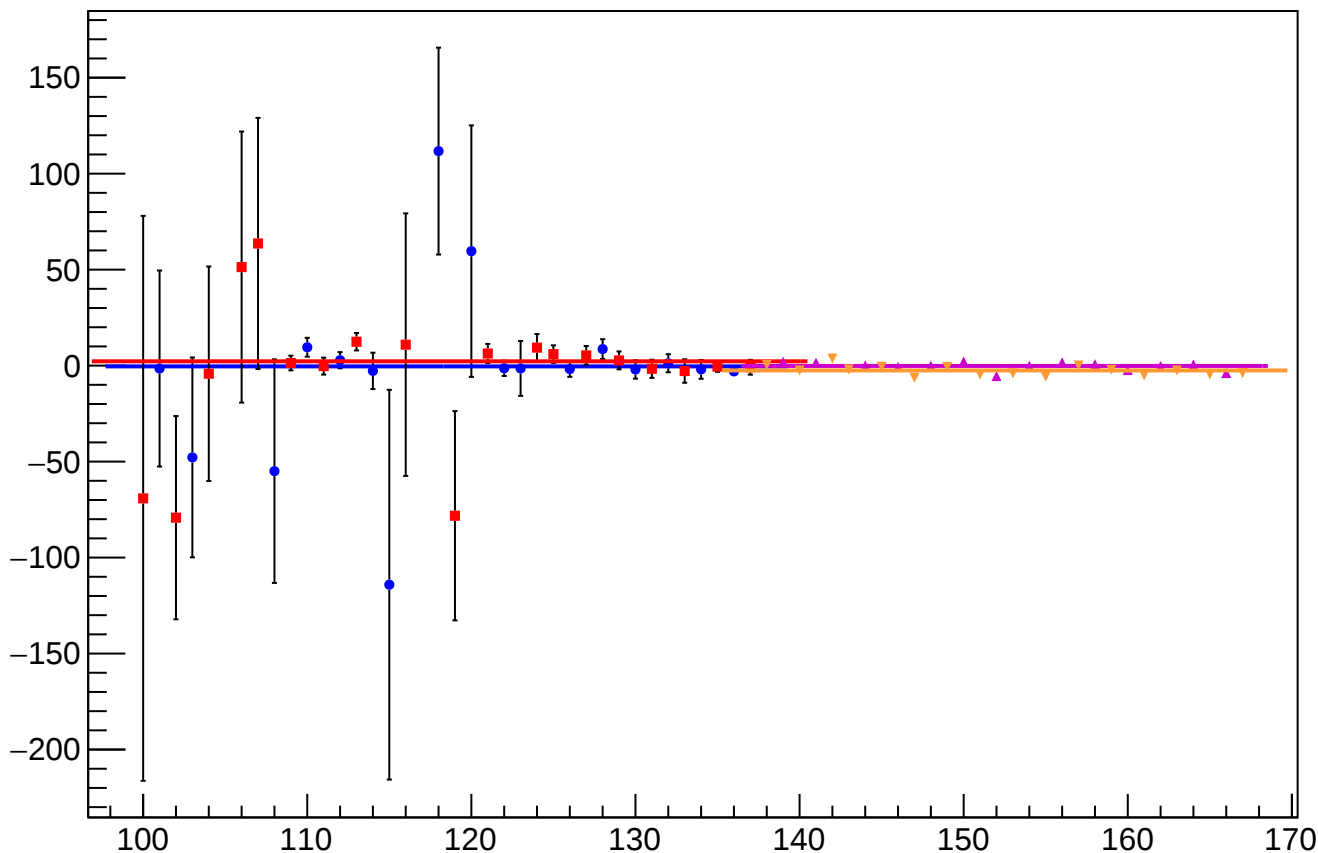
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

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

Out: 3022.799+/-0.551 χ^2/NDF : 6869927.6/34

All: 3073.999+/-0.402 χ^2/NDF : 13081928.5/6

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.403 $\pm$ 1.218 χ^2/NDF : 18.3/16

Left Out: -2.508 $\pm$ 0.483 χ^2/NDF : 24.6/15

Right Out: 2.245 $\pm$ 1.246 χ^2/NDF : 17.4/18

Left In: -0.169 $\pm$ 0.506 χ^2/NDF : 16.0/13

Left: -1.394 $\pm$ 0.349 χ^2/NDF : 51.8/29

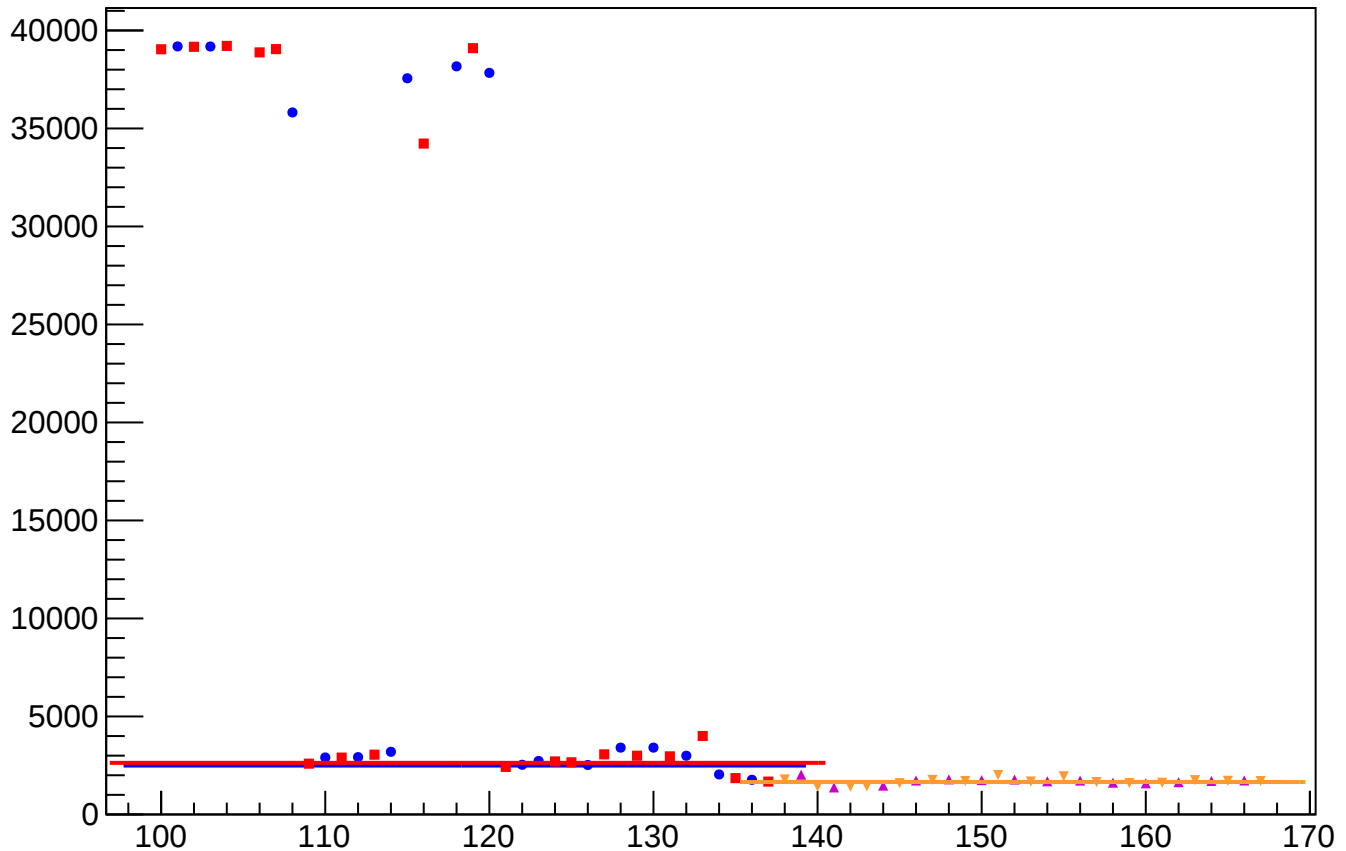
Right: 0.890 $\pm$ 0.871 χ^2/NDF : 38.0/35

In: -0.204 $\pm$ 0.467 χ^2/NDF : 34.3/30

Out: -1.888 $\pm$ 0.450 χ^2/NDF : 54.7/34

All: -1.077 $\pm$ 0.324 χ^2/NDF : 95.8/65

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1654.459 $\pm$ 0.341 χ^2 /NDF: 212320.8/15

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

Left In: 1657.293 $\pm$ 0.358 χ^2 /NDF: 176547.5/13

Left: 1655.810 $\pm$ 0.247 χ^2 /NDF: 388901.2/29

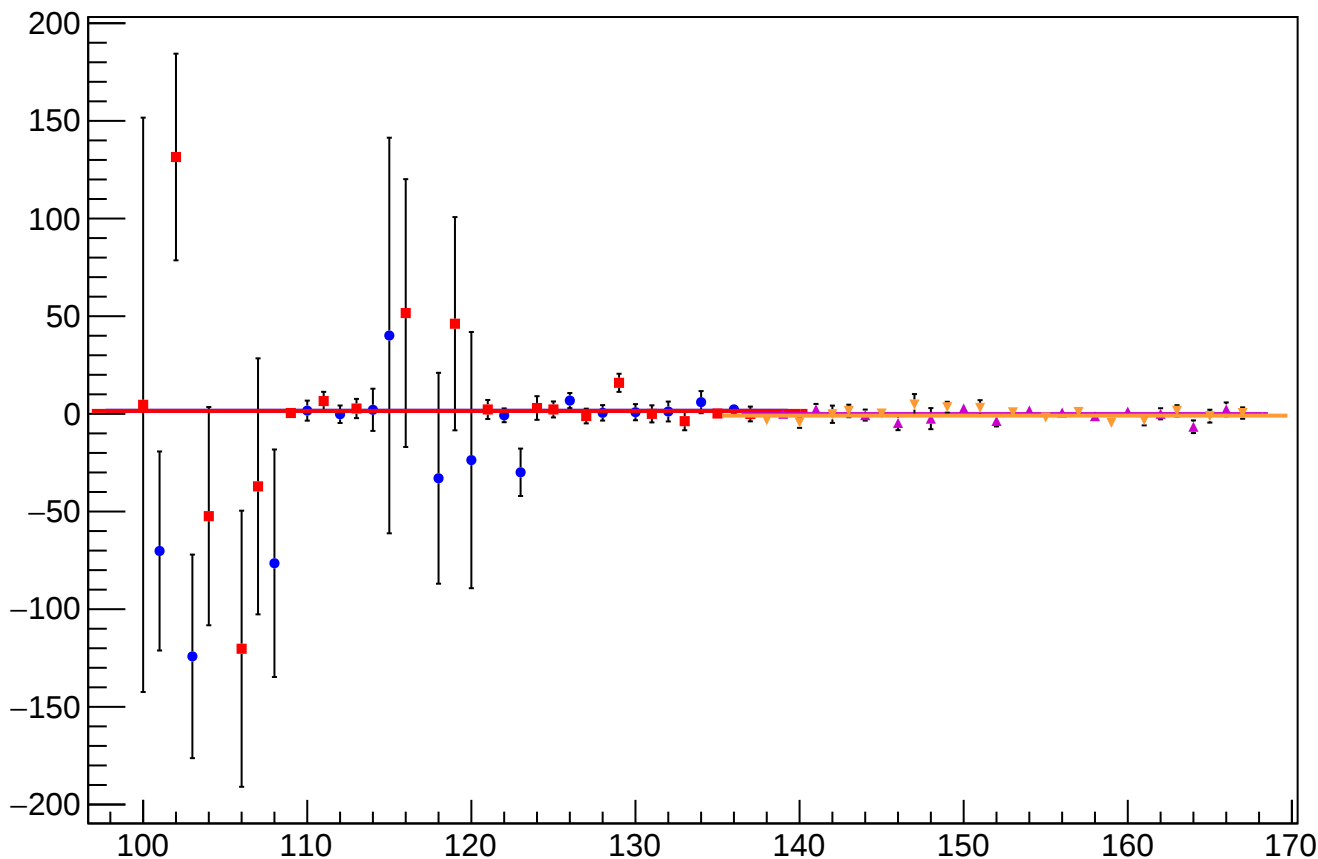
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1780.751 $\pm$ 0.330 χ^2 /NDF: 5867004.1/30

Out: 1782.267 $\pm$ 0.318 χ^2 /NDF: 6145966.6/34

All: 1781.538 $\pm$ 0.229 χ^2 /NDF: 12012981.6/68

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -0.905 ± 0.662 $\chi^2/\text{NDF}: 14.8/15$

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: -0.515 ± 0.472 $\chi^2/\text{NDF}: 26.5/29$

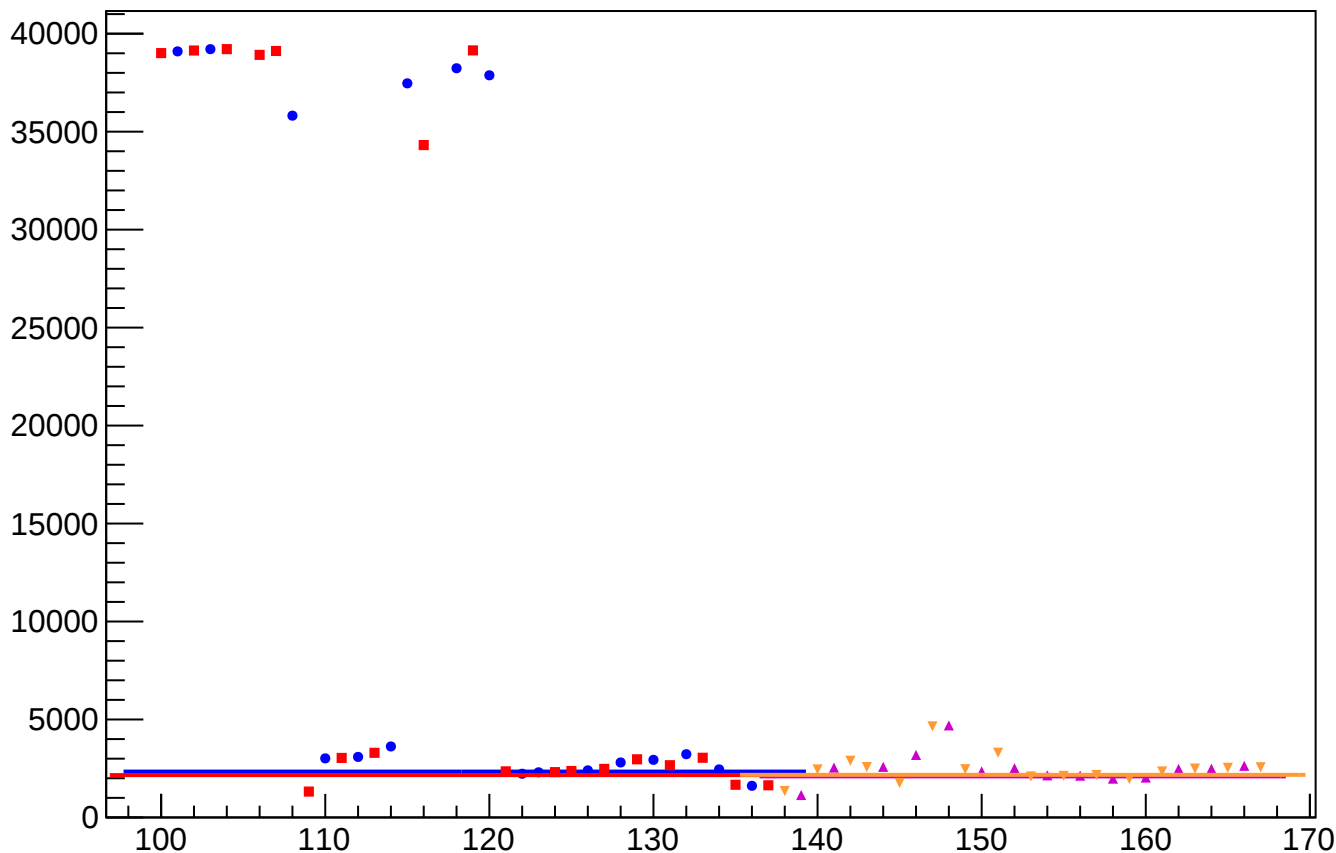
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

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

Out: -0.225 ± 0.562 $\chi^2/\text{NDF}: 43.6/34$

All: 0.039 ± 0.403 $\chi^2/\text{NDF}: 77.0/65$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2175.514+/-0.468 χ^2/NDF : 1377708.8/15

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: 2135.609+/-0.334 χ^2/NDF : 3268884.3/29

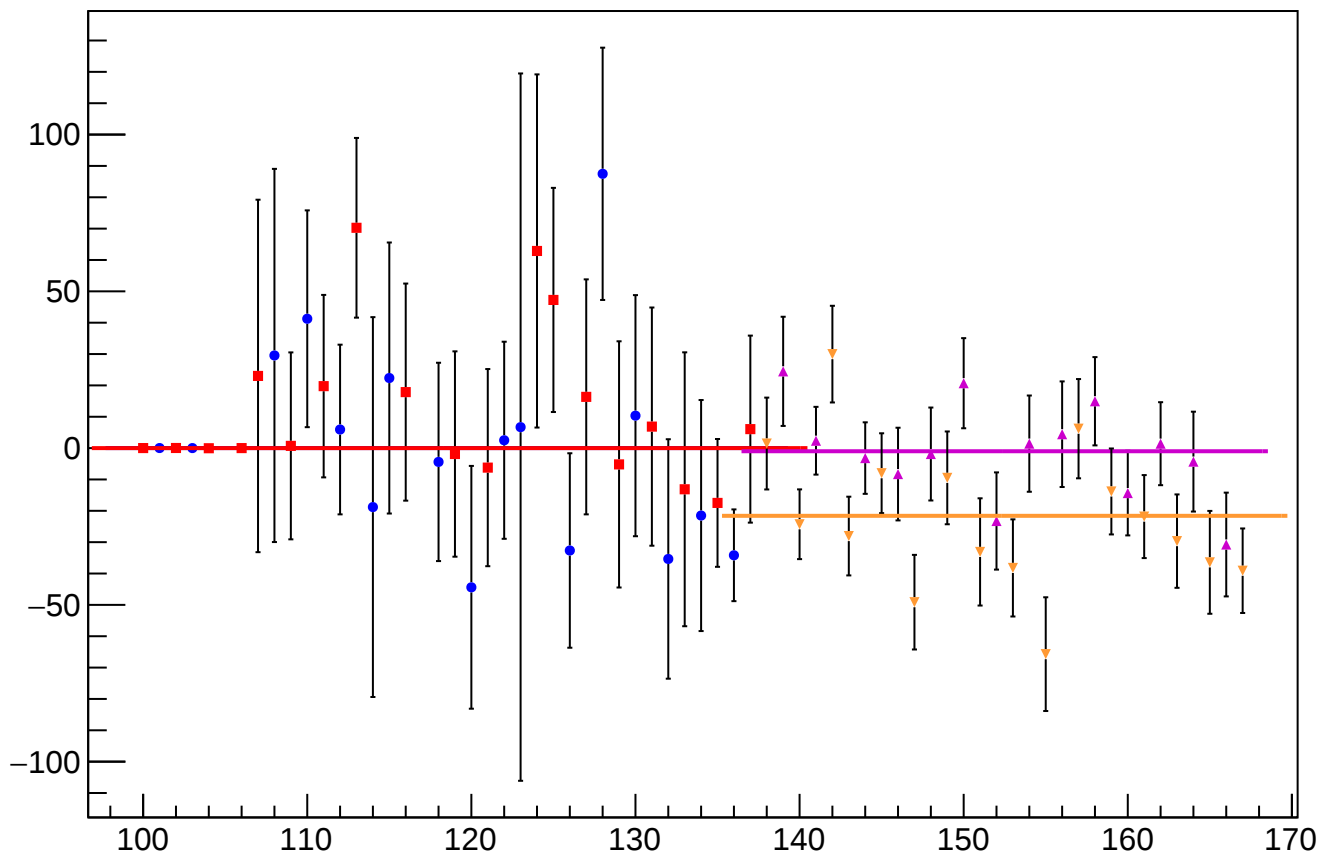
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

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

Out: 2171.496+/-0.397 χ^2/NDF : 6677021.8/34

All: 2164.908+/-0.285 χ^2/NDF : 13630077.6/66

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 χ^2/NDF : 16.2/16

Left Out: -21.596 ± 3.585 χ^2/NDF : 32.9/15

Right Out: -0.003 ± 0.016 χ^2/NDF : 15.9/18

Left In: -1.001 ± 3.799 χ^2/NDF : 12.6/13

Left: -11.894 ± 2.607 χ^2/NDF : 61.0/29

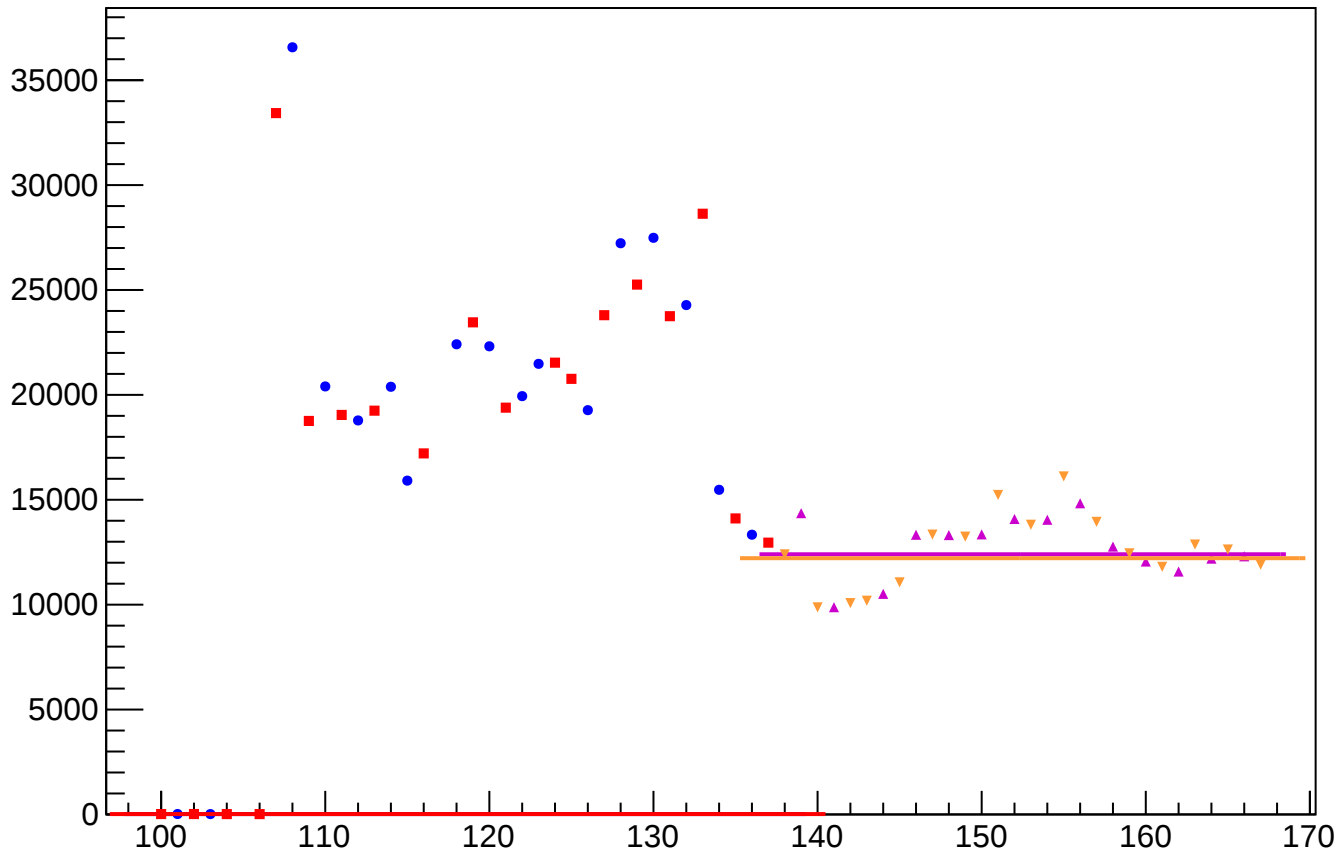
Right: 0.004 ± 0.012 χ^2/NDF : 32.5/35

In: 0.013 ± 0.017 χ^2/NDF : 28.8/30

Out: -0.004 ± 0.016 χ^2/NDF : 85.0/34

All: 0.004 ± 0.012 χ^2/NDF : 114.3/65

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 12214.767 $\pm$ 2.535 χ^2 /NDF: 425187.5/15

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: 12303.077 $\pm$ 1.844 χ^2 /NDF: 740114.7/29

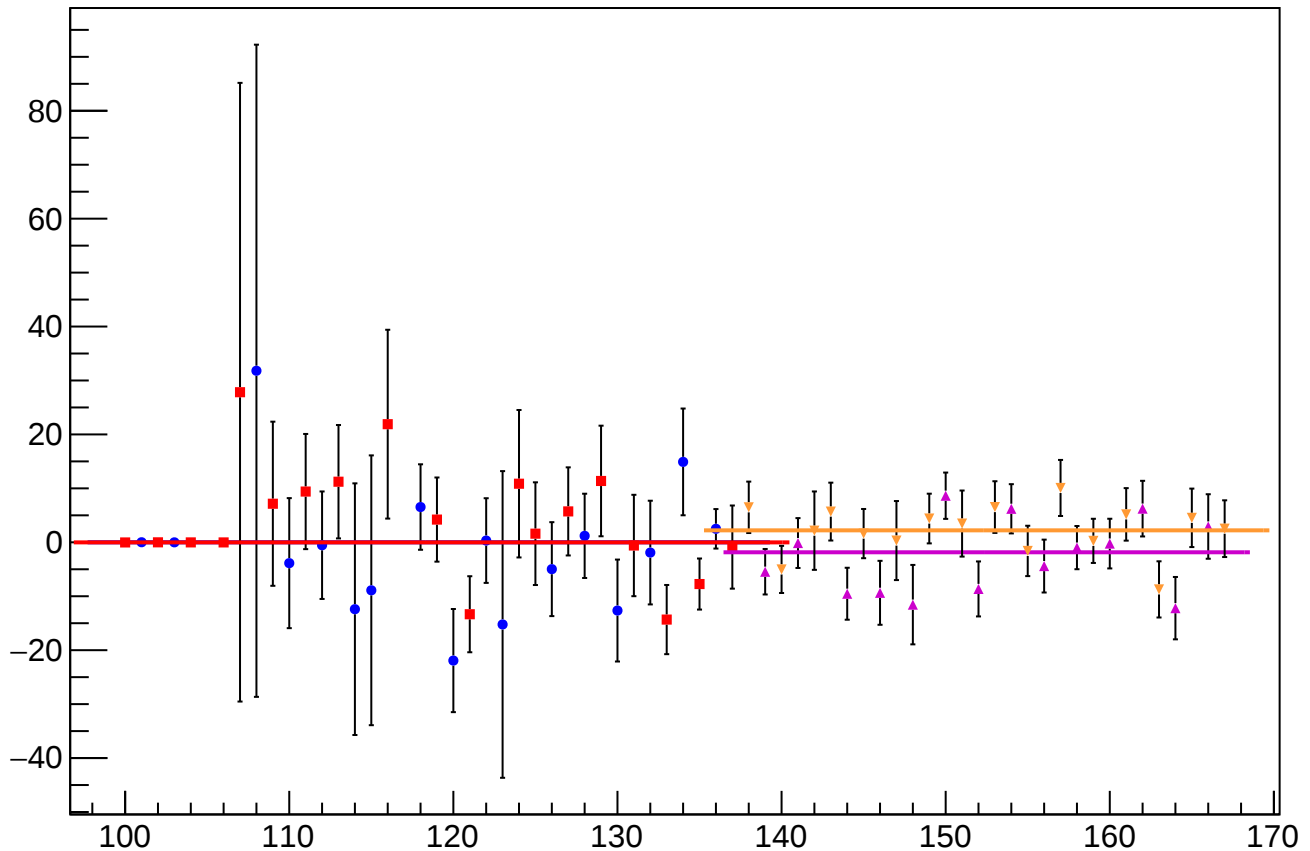
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

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

Out: 18.557 $\pm$ 0.011 χ^2 /NDF: 34681637.6/34

All: 18.715 $\pm$ 0.008 χ^2 /NDF: 67229057.4/65

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2/NDF : 13.0/16

Left Out: 2.217 $\pm$ 1.264 χ^2/NDF : 13.3/15

Right Out: -0.014 $\pm$ 0.009 χ^2/NDF : 18.6/18

Left In: -1.851 $\pm$ 1.313 χ^2/NDF : 24.4/13

Left: 0.260 $\pm$ 0.910 χ^2/NDF : 42.7/29

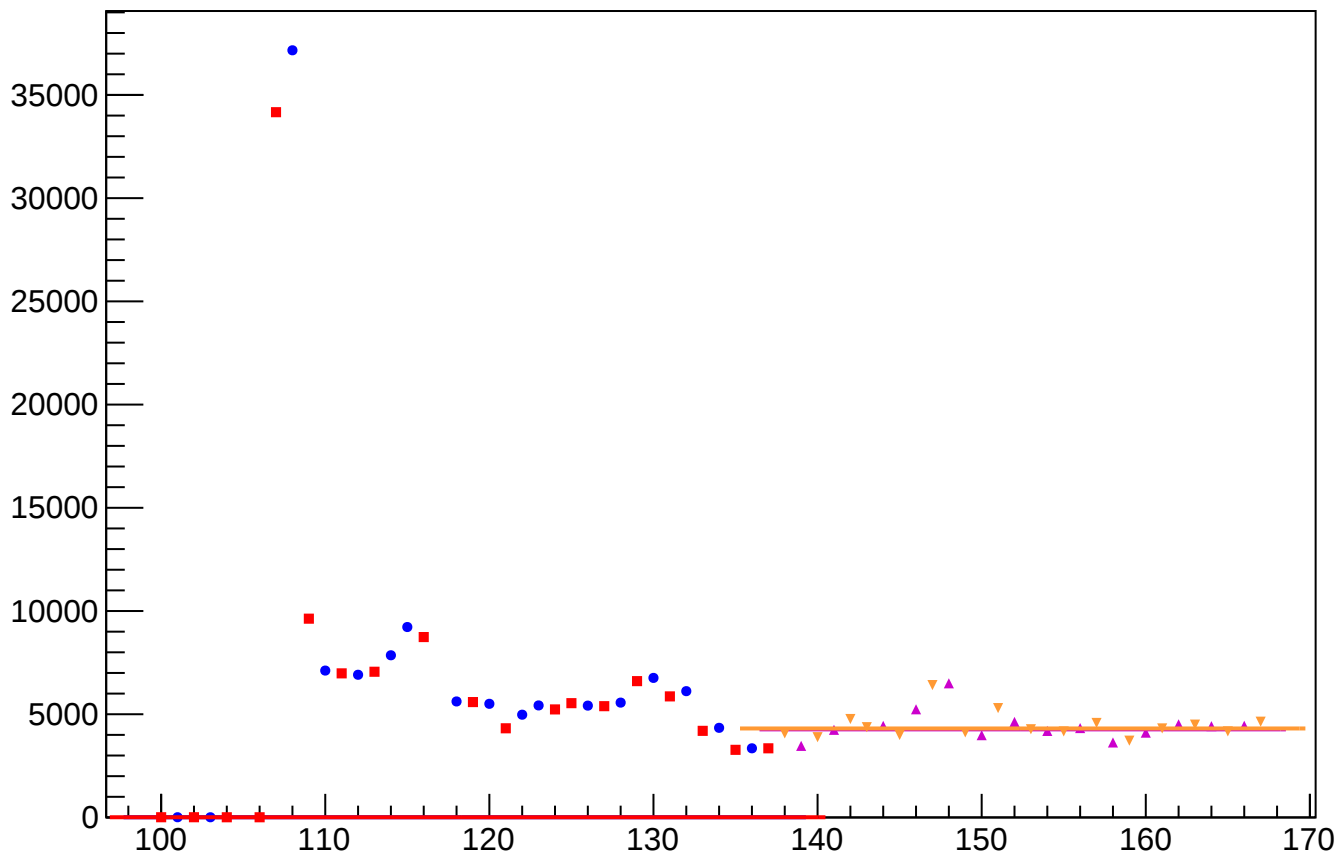
Right: -0.007 $\pm$ 0.006 χ^2/NDF : 33.0/35

In: 0.001 $\pm$ 0.009 χ^2/NDF : 39.4/30

Out: -0.014 $\pm$ 0.009 χ^2/NDF : 35.0/34

All: -0.007 $\pm$ 0.006 χ^2/NDF : 75.7/65

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4310.627 $\pm$ 0.894 χ^2 /NDF: 322241.9/15

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: 4289.393 $\pm$ 0.644 χ^2 /NDF: 715098.1/29

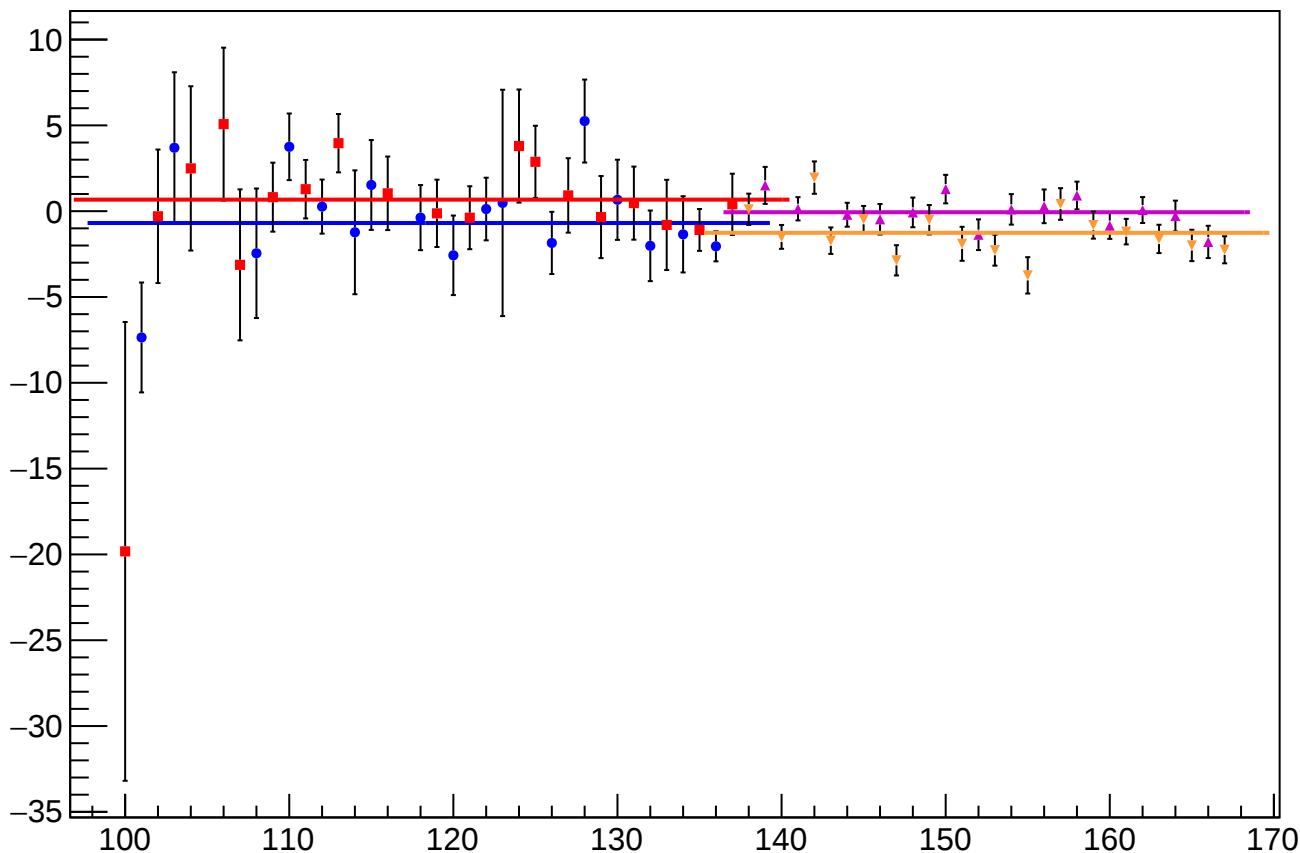
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22274609.0/35

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

Out: 10.056 $\pm$ 0.006 χ^2 /NDF: 34636833.2/34

All: 10.099 $\pm$ 0.004 χ^2 /NDF: 67175970.9/65

diff_cav4cX_mean vs Slug, Sign Corrected



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

Left Out: -1.260 ± 0.211 χ^2/NDF : 32.7/15

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: -0.694 ± 0.154 χ^2/NDF : 61.2/29

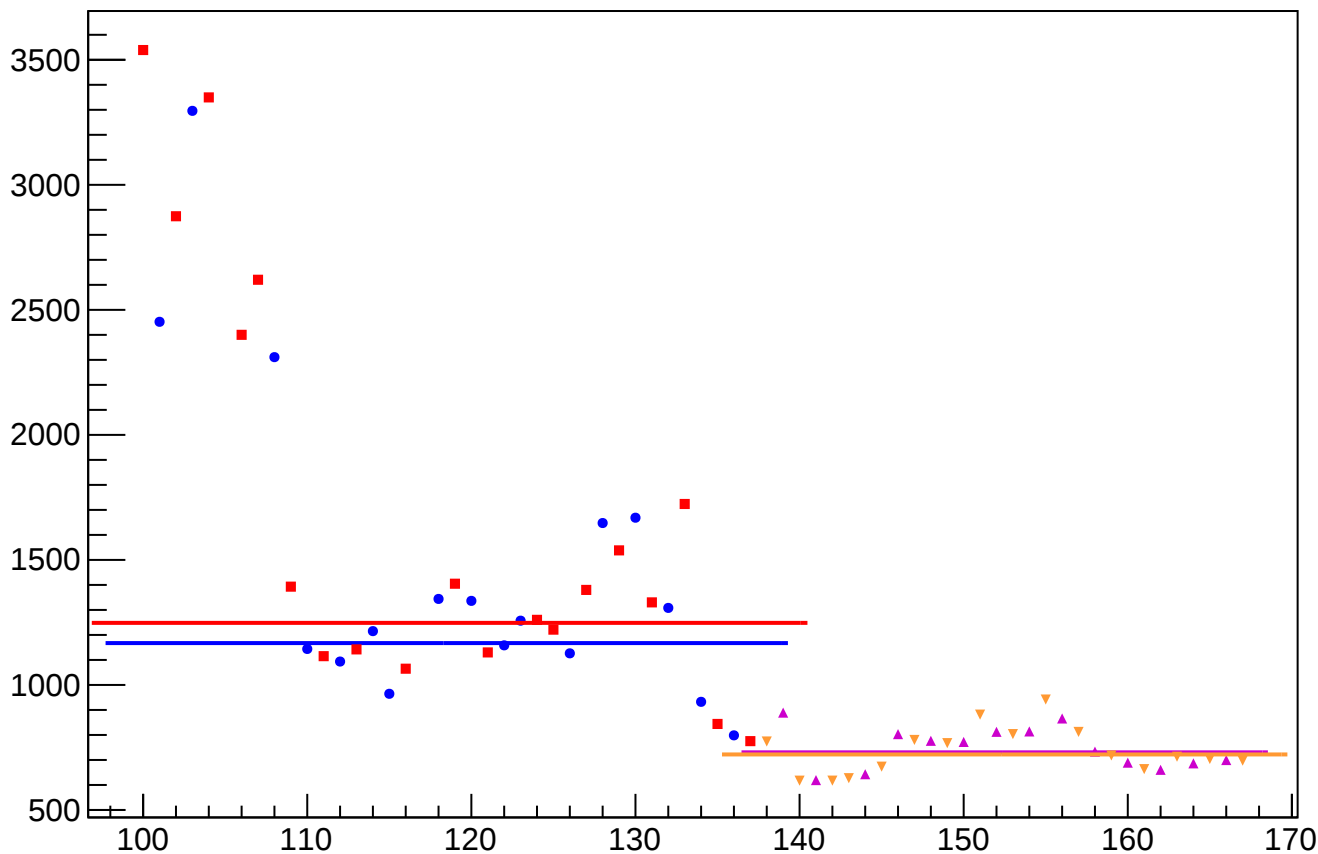
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: -0.172 ± 0.203 χ^2/NDF : 37.2/30

Out: -0.968 ± 0.195 χ^2/NDF : 58.7/34

All: -0.586 ± 0.140 χ^2/NDF : 103.9/65

diff_cav4cX_rms vs Slug, Sign Corrected



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

Left Out: 722.052 $\pm$ 0.149 χ^2/NDF : 317616.6/15

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: 726.036 $\pm$ 0.109 χ^2/NDF : 574301.7/29

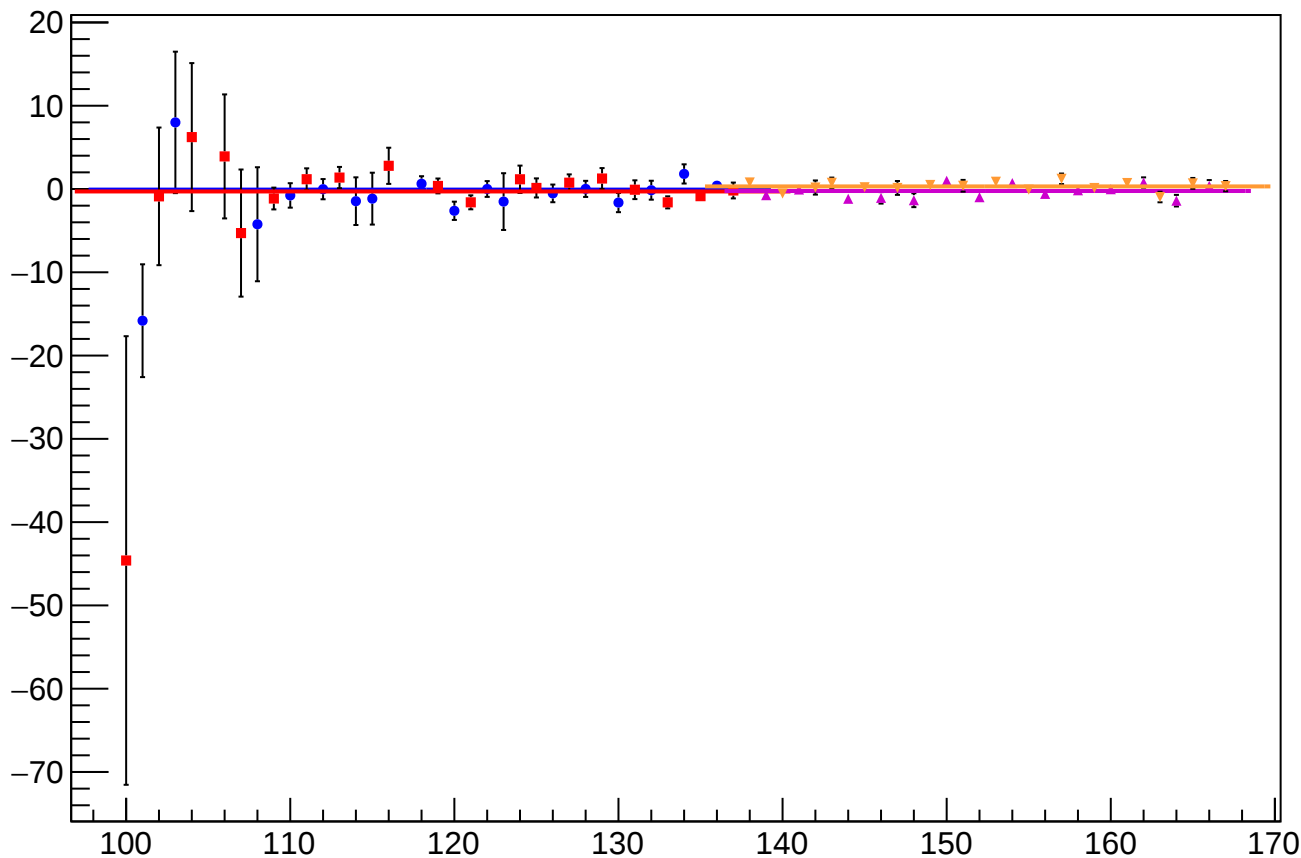
Right: 1206.306 $\pm$ 0.246 χ^2/NDF : 3259405.5/35

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

Out: 801.636 $\pm$ 0.138 χ^2/NDF : 3846547.0/34

All: 804.529 $\pm$ 0.099 χ^2/NDF : 7032483.3/65

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.312 ± 0.151 χ^2/NDF : 12.6/15

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: 0.047 ± 0.109 χ^2/NDF : 43.0/29

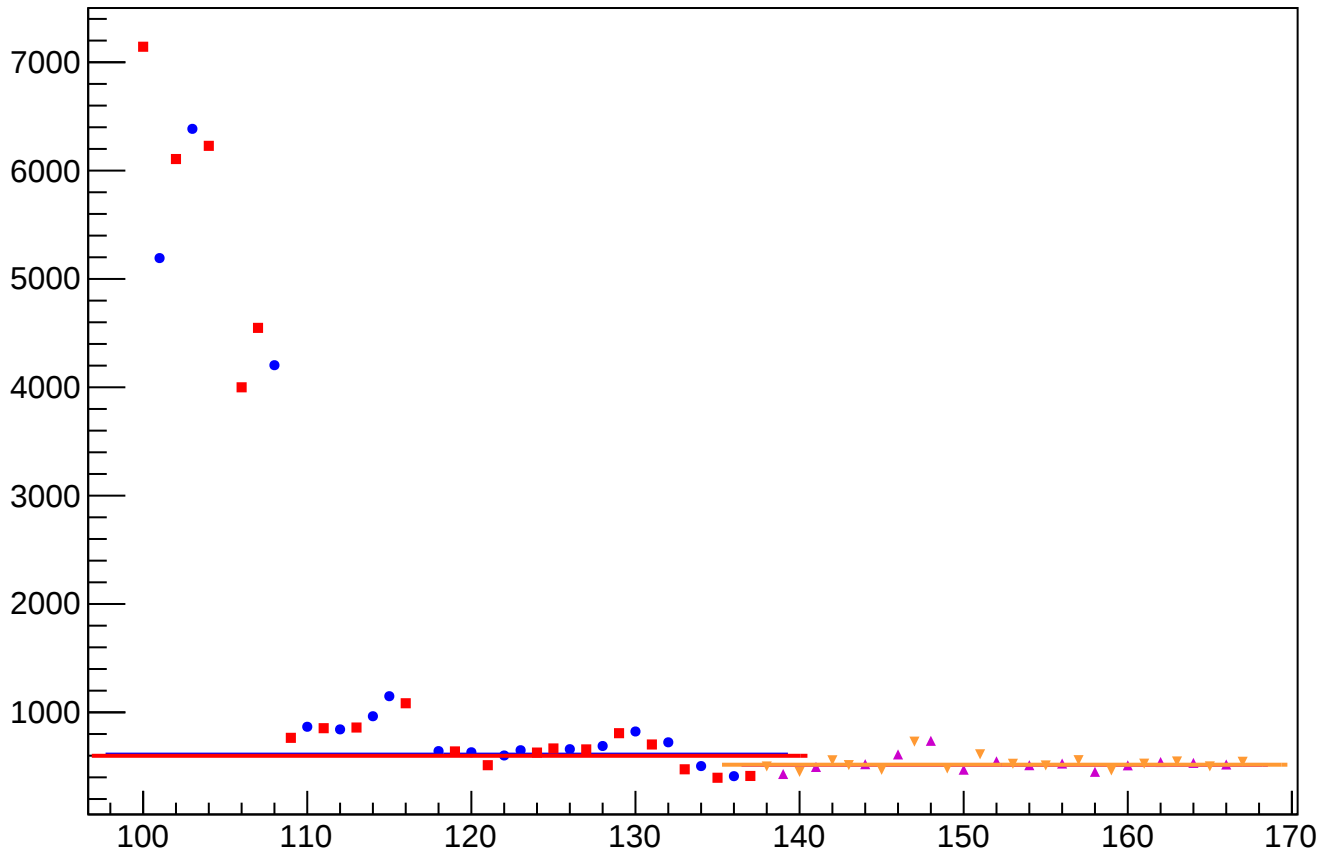
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.197 ± 0.136 χ^2/NDF : 43.5/30

Out: 0.162 ± 0.131 χ^2/NDF : 36.8/34

All: -0.011 ± 0.094 χ^2/NDF : 83.9/65

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.780+/-0.190 χ^2/NDF : 3135978.5/16

Left Out: 516.608+/-0.107 χ^2/NDF : 273073.8/15

Right Out: 599.018+/-0.187 χ^2/NDF : 3552387.3/18

Left In: 514.126+/-0.112 χ^2/NDF : 295604.7/13

Left: 515.420+/-0.077 χ^2/NDF : 568936.6/29

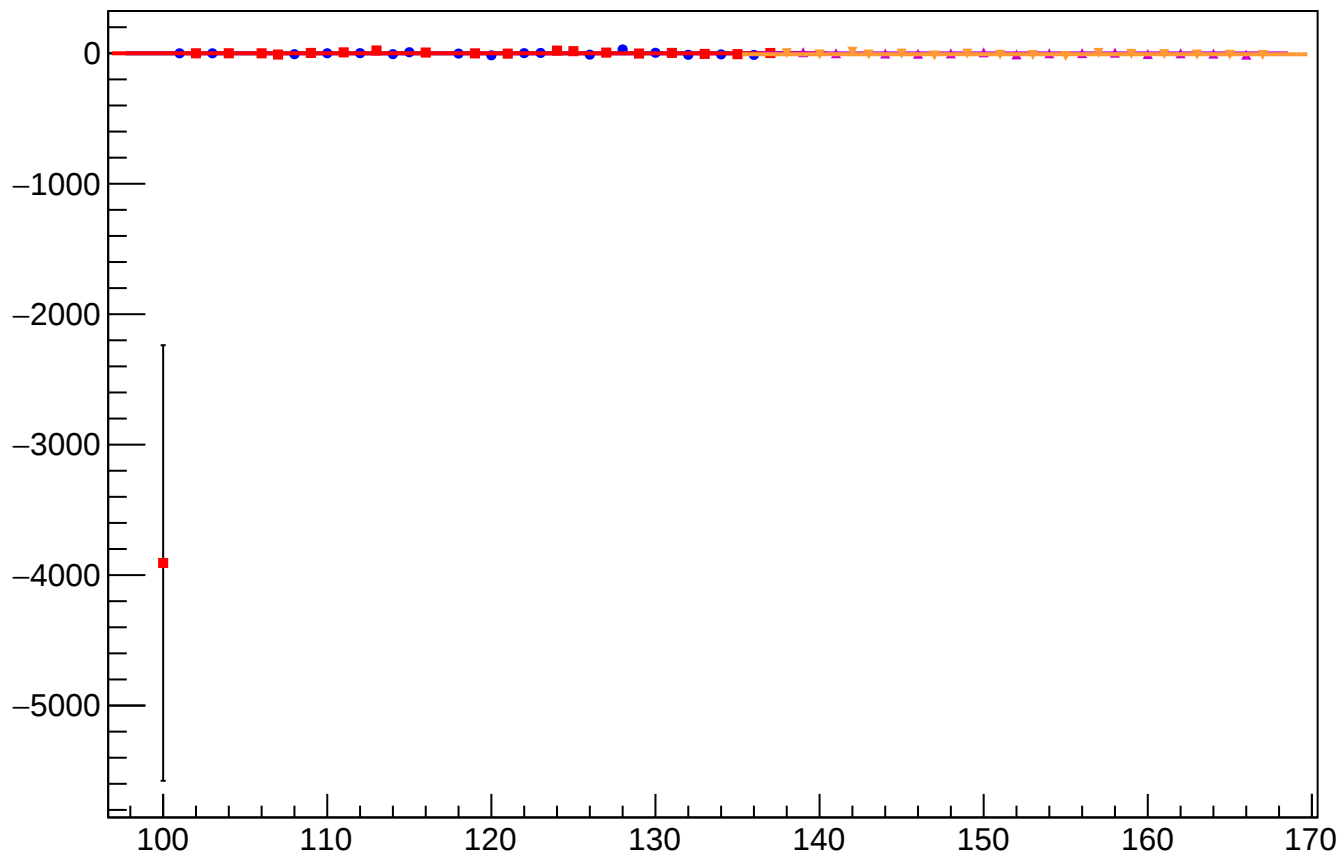
Right: 604.304+/-0.133 χ^2/NDF : 6689999.6/35

In: 538.658+/-0.096 χ^2/NDF : 3620200.6/30

Out: 536.981+/-0.093 χ^2/NDF : 3972266.0/34

All: 537.790+/-0.067 χ^2/NDF : 7592624.0/65

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -7.282+/-1.232 χ^2/NDF : 32.9/15

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: -4.029+/-0.896 χ^2/NDF : 60.7/29

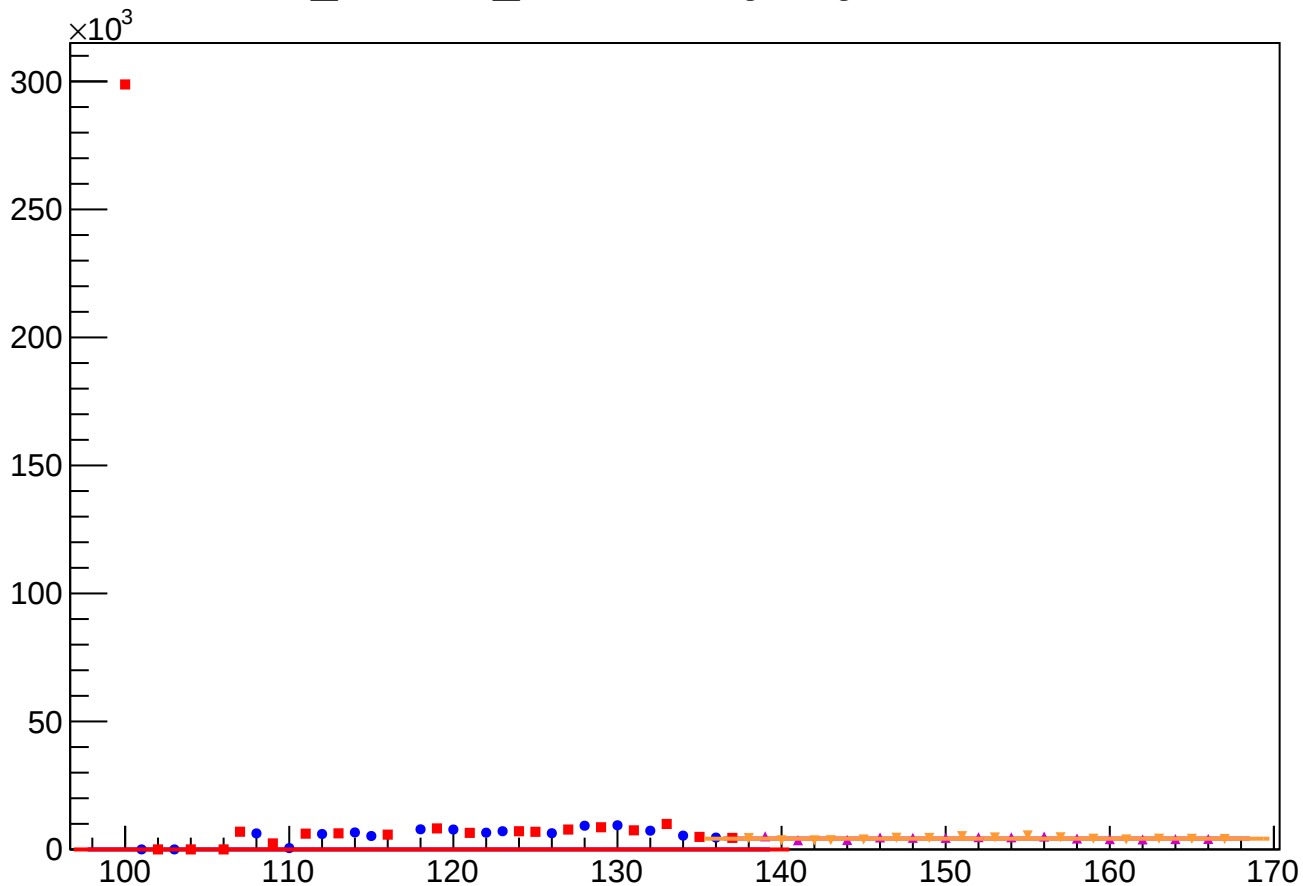
Right: 0.004+/-0.014 χ^2/NDF : 36.4/35

In: -0.022+/-0.021 χ^2/NDF : 28.7/30

Out: 0.025+/-0.020 χ^2/NDF : 85.9/34

All: 0.003+/-0.014 χ^2/NDF : 117.3/65

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4207.424 $\pm$ 0.871 χ^2 /NDF: 335427.4/15

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: 4235.593 $\pm$ 0.633 χ^2 /NDF: 596272.6/29

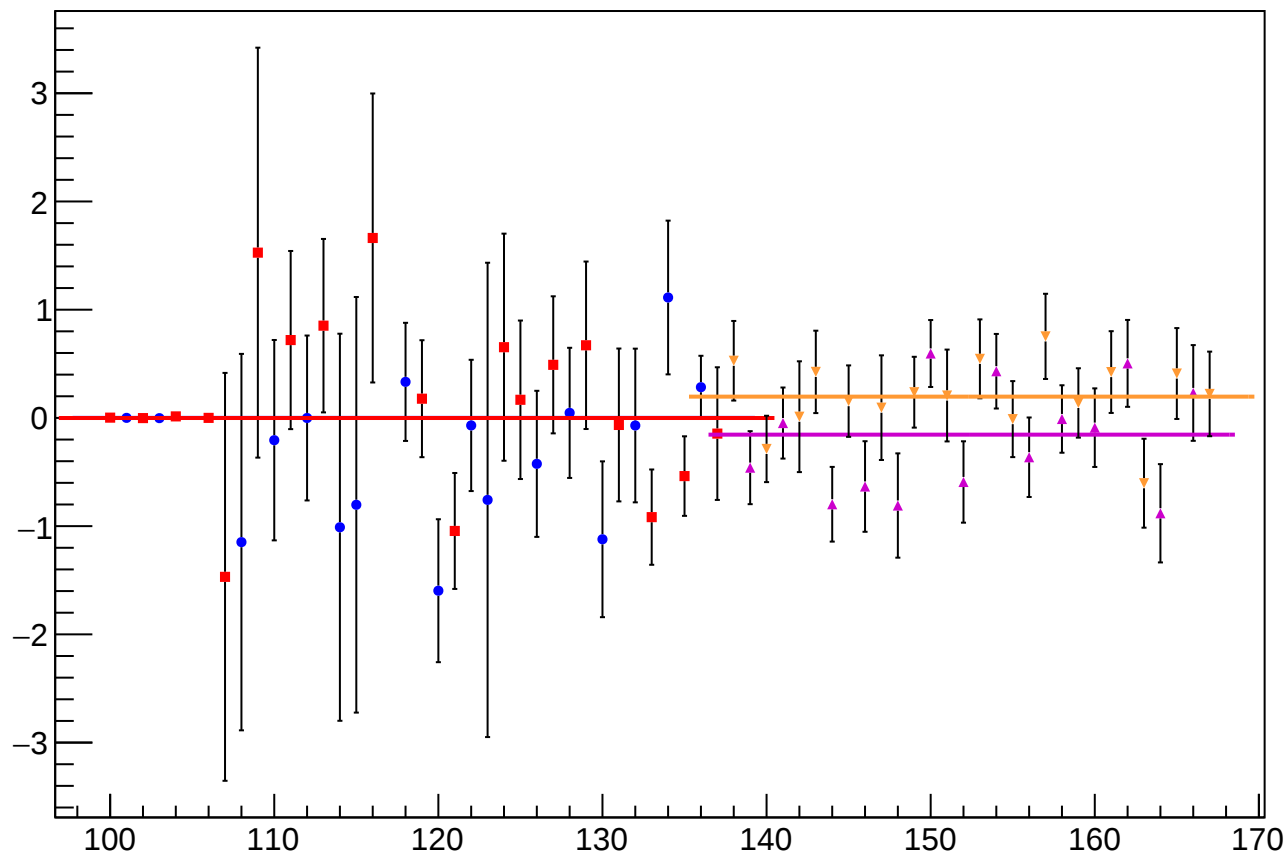
Right: 17.303 $\pm$ 0.010 χ^2 /NDF: 21322069.2/35

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

Out: 18.348 $\pm$ 0.014 χ^2 /NDF: 34280934.0/34

All: 18.382 $\pm$ 0.010 χ^2 /NDF: 66245449.3/65

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2/NDF : 13.8/16

Left Out: 0.197 $\pm$ 0.094 χ^2/NDF : 11.6/15

Right Out: -0.001 $\pm$ 0.002 χ^2/NDF : 17.9/18

Left In: -0.155 $\pm$ 0.098 χ^2/NDF : 24.3/13

Left: 0.029 $\pm$ 0.068 χ^2/NDF : 42.5/29

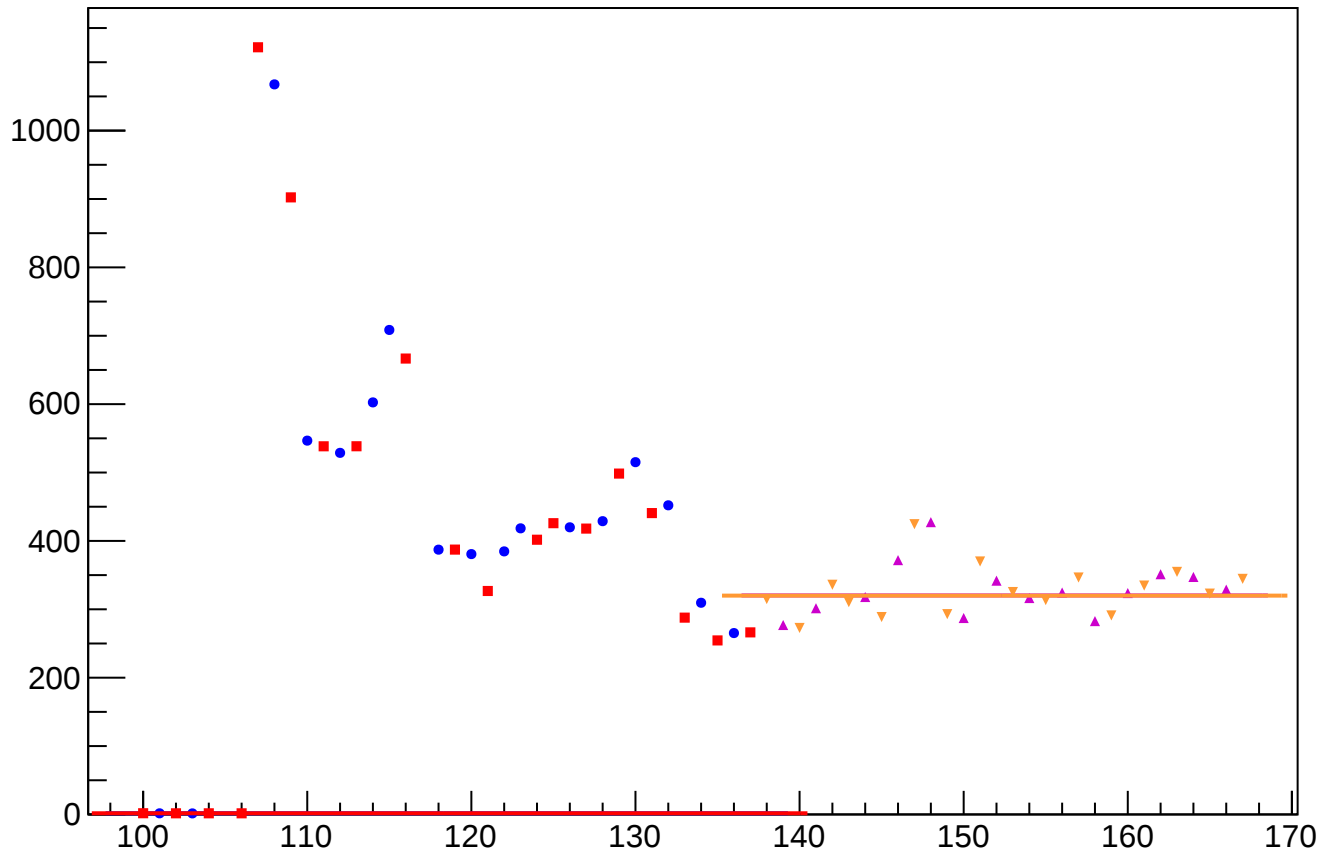
Right: -0.000 $\pm$ 0.001 χ^2/NDF : 31.8/35

In: 0.000 $\pm$ 0.002 χ^2/NDF : 40.5/30

Out: -0.001 $\pm$ 0.002 χ^2/NDF : 33.9/34

All: -0.000 $\pm$ 0.001 χ^2/NDF : 74.6/65

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 320.006 $\pm$ 0.066 χ^2 /NDF:255632.6/15

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: 320.128 $\pm$ 0.048 χ^2 /NDF: 503261.3/29

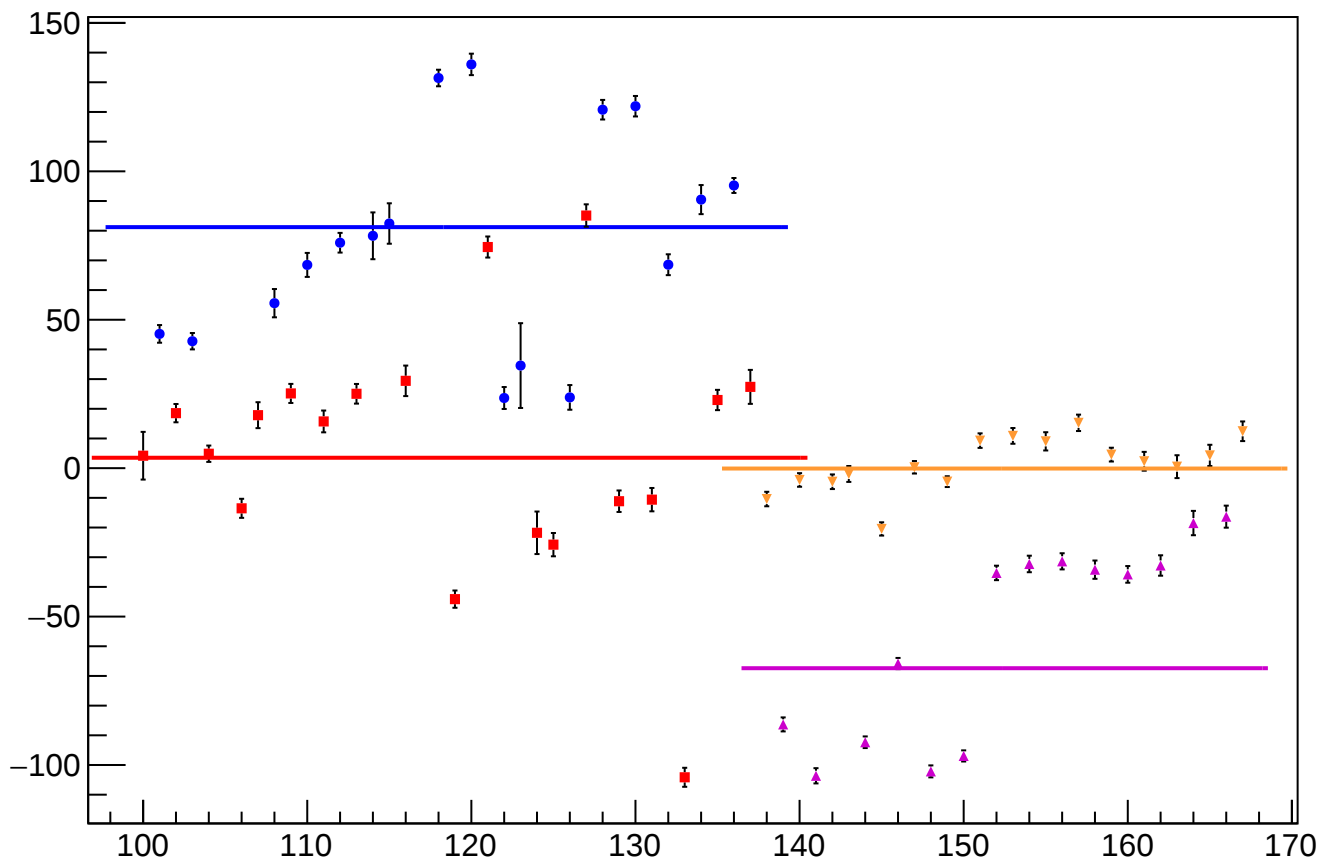
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21797153.2/35

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

Out: 1.865 $\pm$ 0.001 χ^2 /NDF:34097311.2/34

All: 1.850 $\pm$ 0.001 χ^2 /NDF: 66472773.9/65

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.201 ± 0.886 $\chi^2/\text{NDF}: 1709.8/16$

Left Out: -0.124 ± 0.638 $\chi^2/\text{NDF}: 205.5/15$

Right Out: 3.508 ± 0.843 $\chi^2/\text{NDF}: 2599.0/18$

Left In: -67.394 ± 0.662 $\chi^2/\text{NDF}: 2153.1/13$

Left: -32.519 ± 0.459 $\chi^2/\text{NDF}: 7714.0/29$

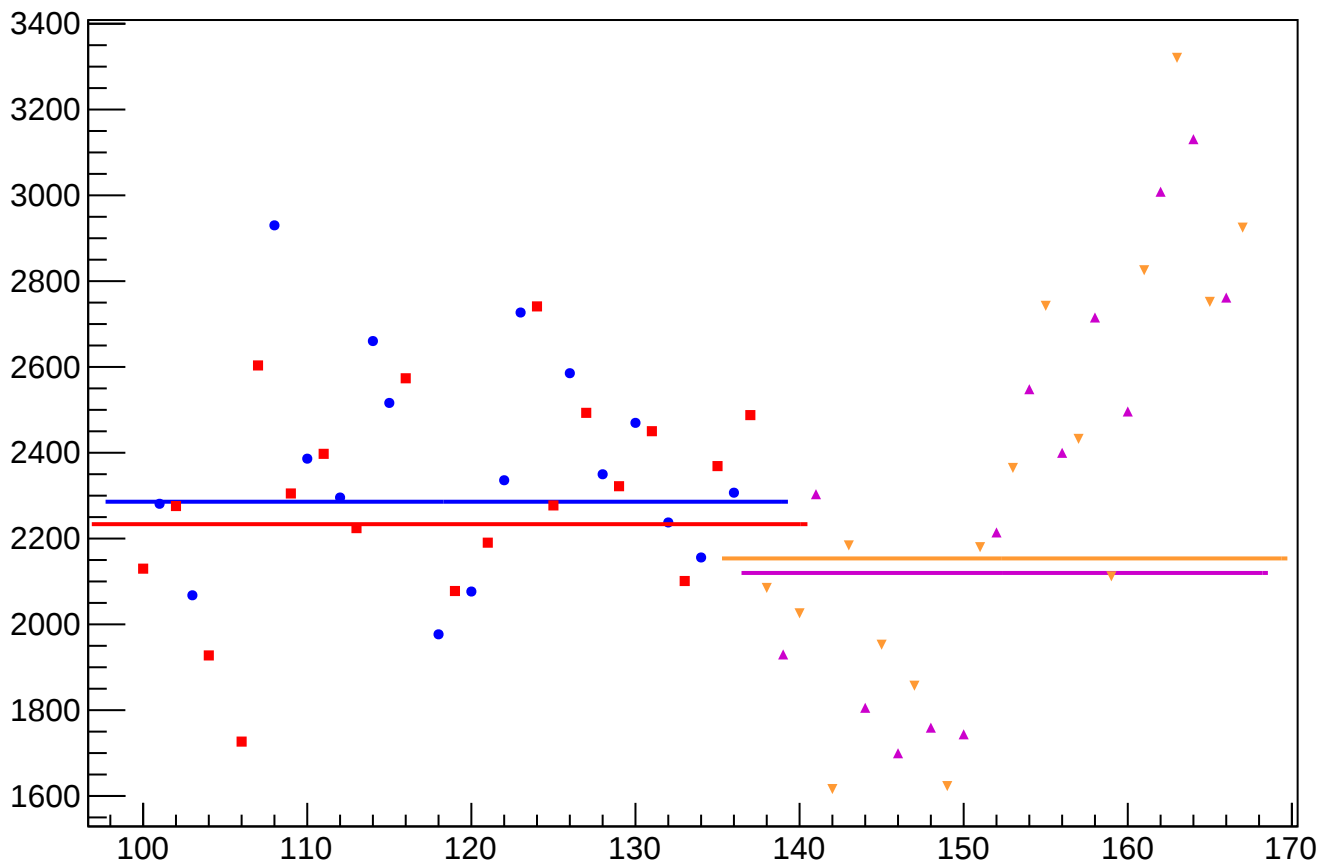
Right: 40.415 ± 0.610 $\chi^2/\text{NDF}: 8348.3/35$

In: -14.147 ± 0.530 $\chi^2/\text{NDF}: 21924.4/30$

Out: 1.200 ± 0.509 $\chi^2/\text{NDF}: 2816.3/34$

All: -6.155 ± 0.367 $\chi^2/\text{NDF}: 25177.1/65$

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2153.669 $\pm$ 0.451 χ^2 /NDF: 874497.8/15

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

Left In: 2119.830 $\pm$ 0.468 χ^2 /NDF: 815316.3/13

Left: 2137.373 $\pm$ 0.325 χ^2 /NDF: 1692524.5/29

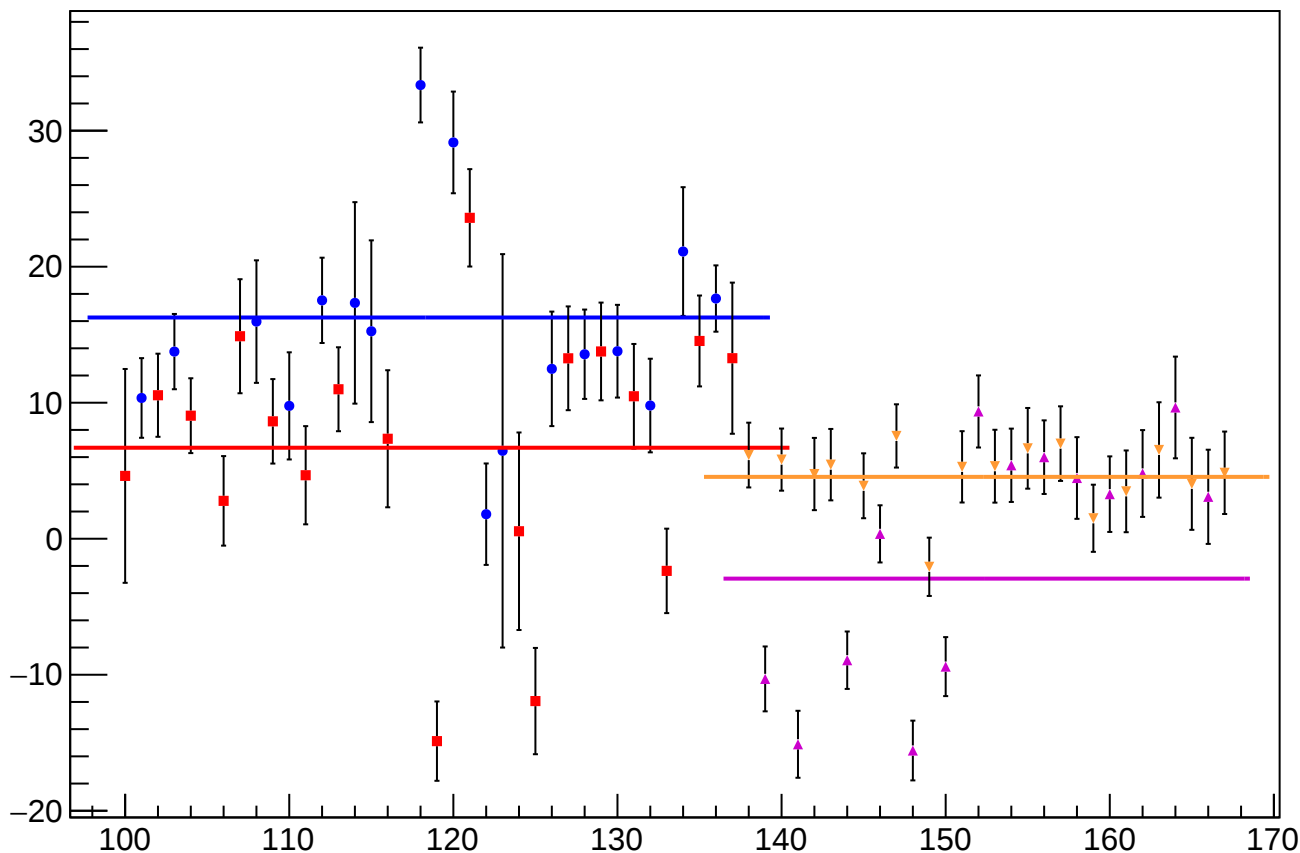
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2179.322 $\pm$ 0.375 χ^2 /NDF: 969747.4/30

Out: 2182.775 $\pm$ 0.360 χ^2 /NDF: 1032773.1/34

All: 2181.120 $\pm$ 0.260 χ^2 /NDF: 2002564.7/65

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

Left Out: 4.548 $\pm$ 0.657 χ^2/NDF :15.6/15

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

Left In: -2.933 $\pm$ 0.687 χ^2/NDF :159.8/13

Left: 0.972 $\pm$ 0.475 χ^2/NDF : 237.4/29

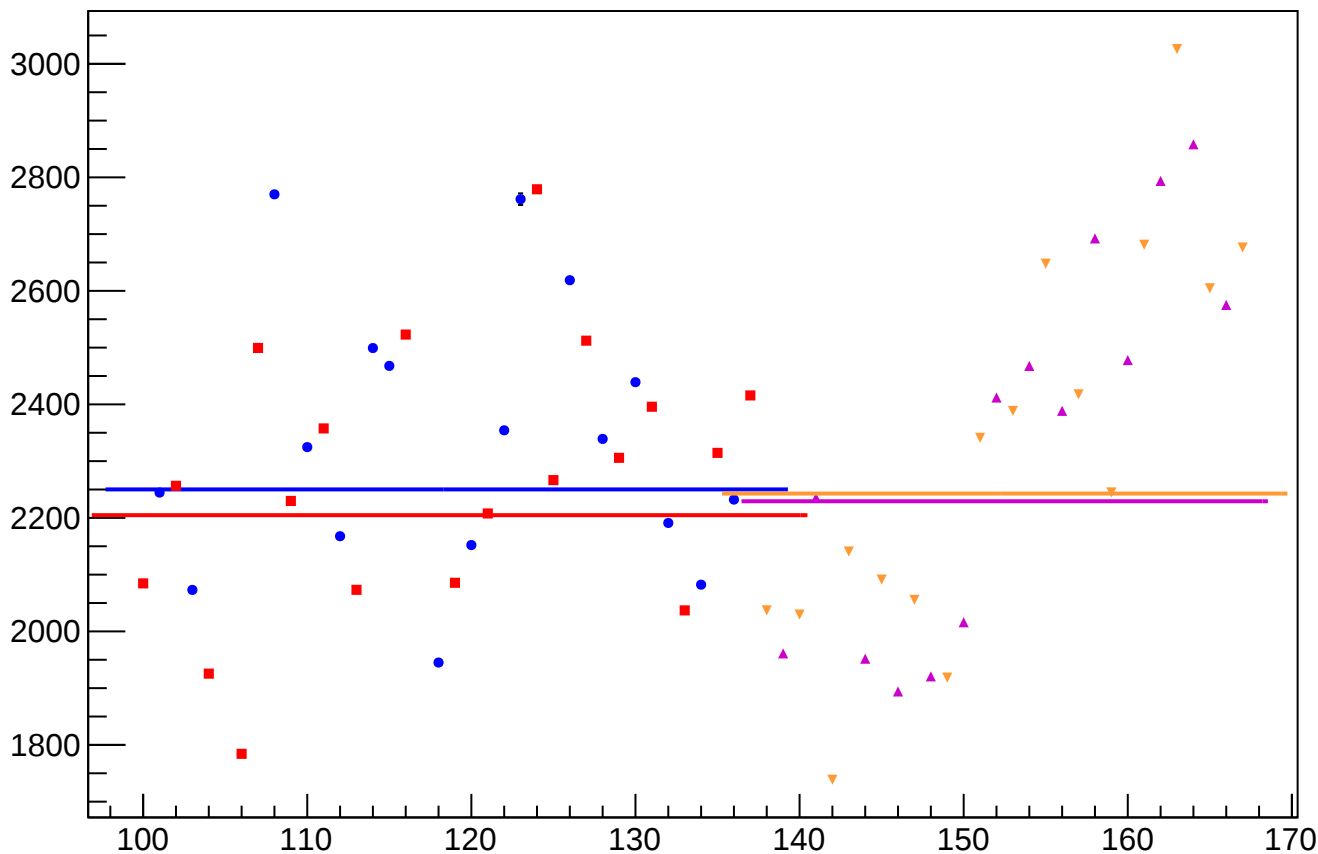
Right: 11.249 $\pm$ 0.601 χ^2/NDF : 278.0/35

In: 4.419 $\pm$ 0.539 χ^2/NDF :540.0/30

Out: 5.372 $\pm$ 0.515 χ^2/NDF :153.6/34

All: 4.917 $\pm$ 0.373 χ^2/NDF : 695.3/65

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

Left Out: 2242.854+/-0.465 χ^2/NDF : 434590.1/15

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: 2236.372+/-0.336 χ^2/NDF : 839301.4/29

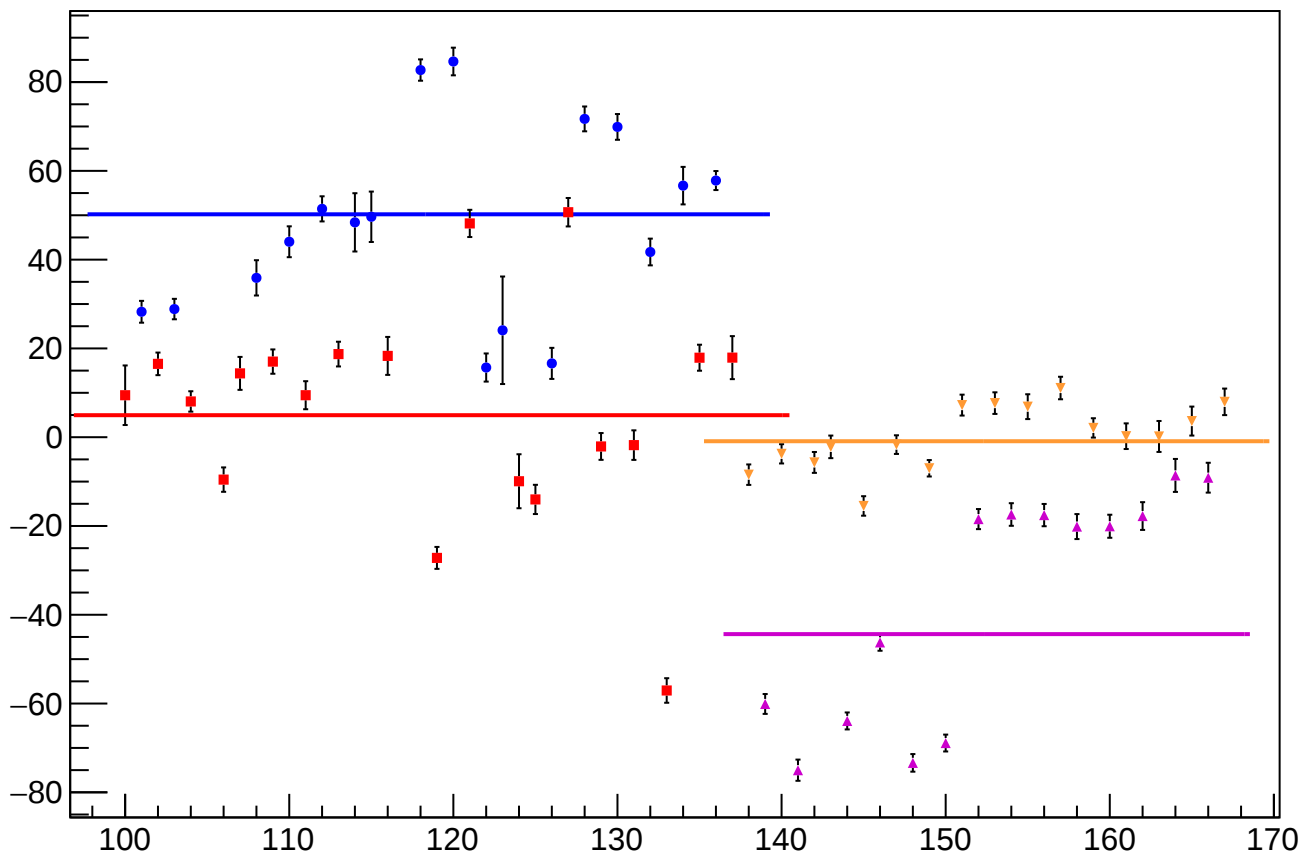
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

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

Out: 2228.208+/-0.364 χ^2/NDF : 563400.9/34

All: 2232.542+/-0.263 χ^2/NDF : 1066288.0/65

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: -0.907+/-0.607 χ^2/NDF :139.2/15

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: -21.785+/-0.438 χ^2/NDF : 4093.6/29

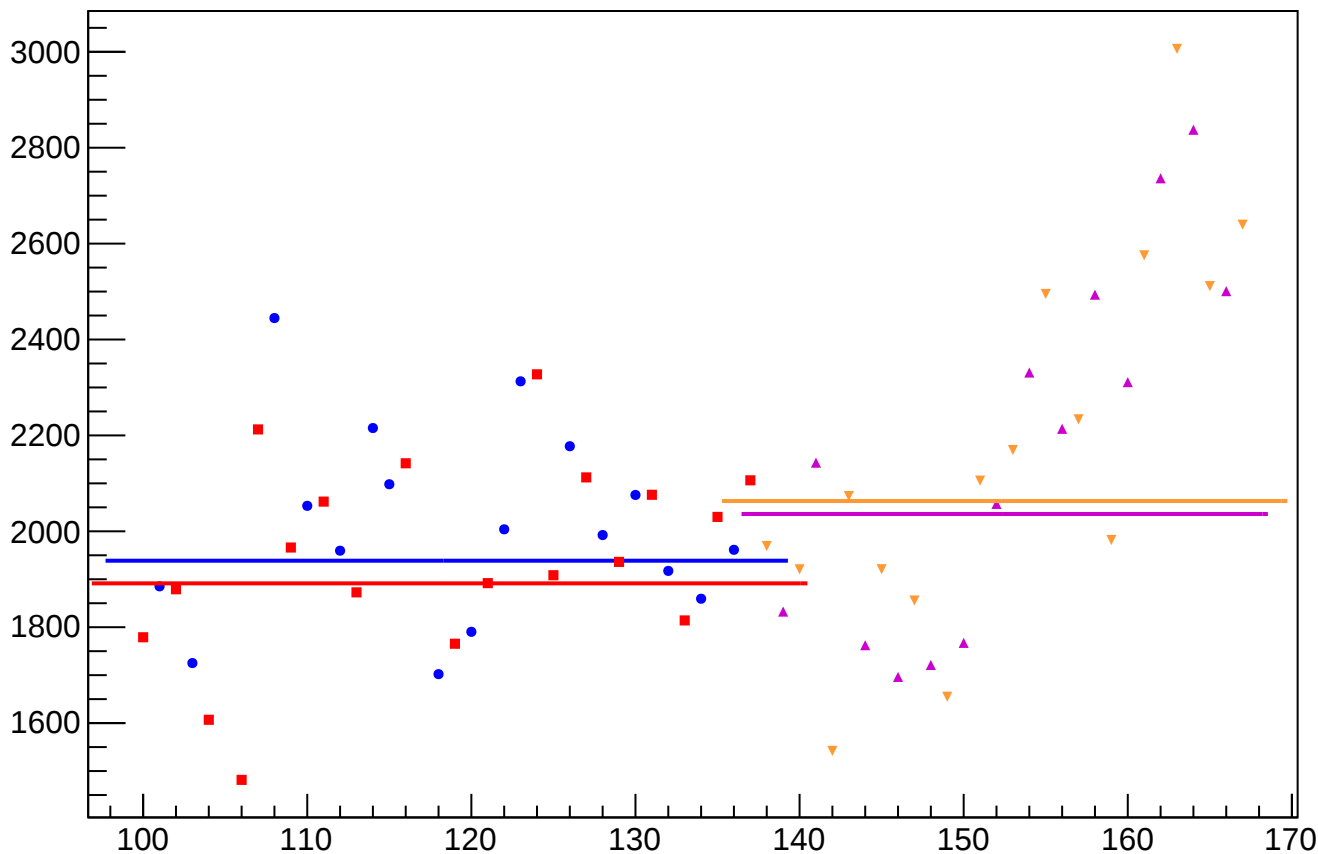
Right: 26.432+/-0.517 χ^2/NDF : 4002.4/35

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

Out: 1.557+/-0.462 χ^2/NDF :1441.0/34

All: -1.662+/-0.334 χ^2/NDF : 13160.7/65

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.688 ± 0.531 χ^2/NDF : 100143.1/16

Left Out: 2063.155 ± 0.429 χ^2/NDF : 620428.6/15

Right Out: 1891.466 ± 0.504 χ^2/NDF : 146622.8/18

Left In: 2036.130 ± 0.447 χ^2/NDF : 561003.2/13

Left: 2050.170 ± 0.309 χ^2/NDF : 1183335.0/29

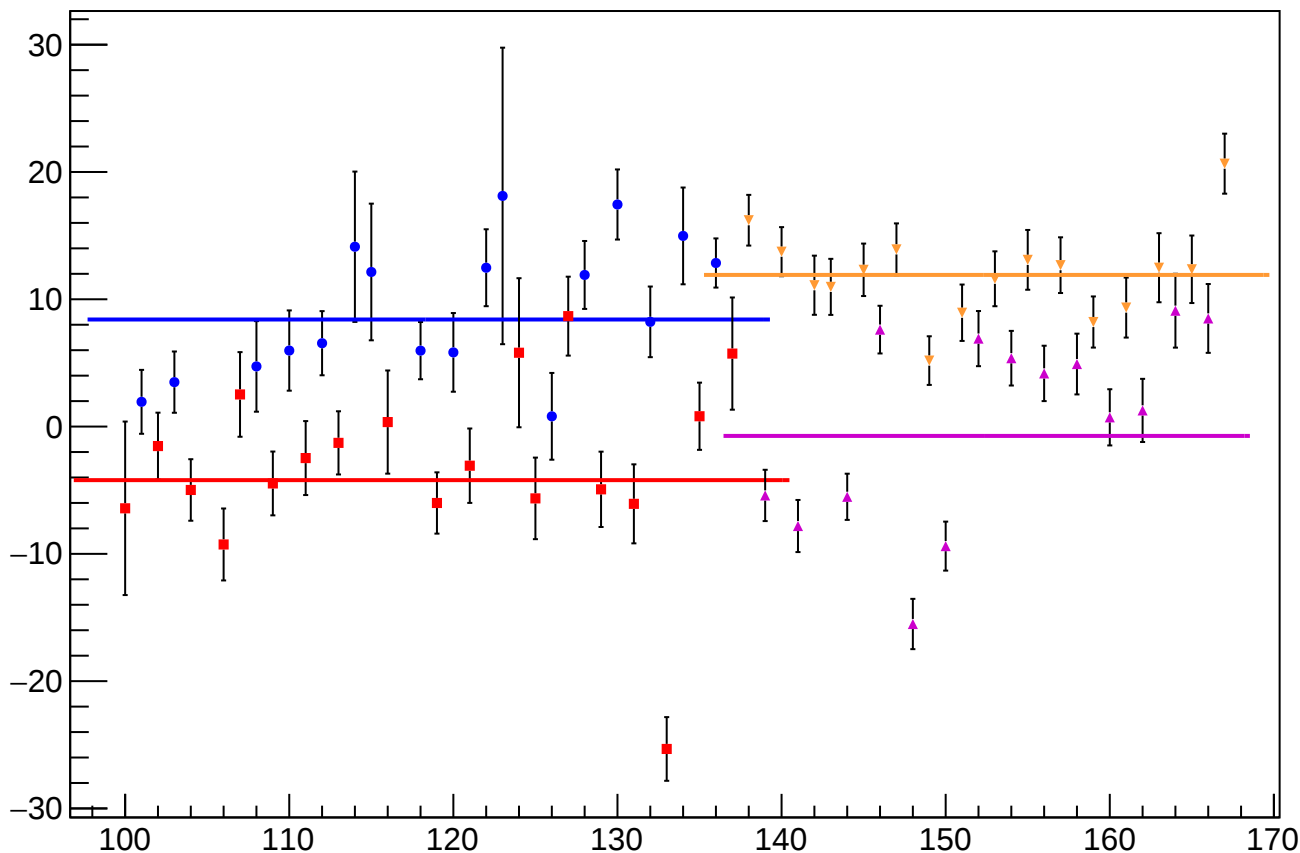
Right: 1913.873 ± 0.366 χ^2/NDF : 250923.8/35

In: 1995.760 ± 0.342 χ^2/NDF : 680878.1/30

Out: 1991.024 ± 0.327 χ^2/NDF : 834220.5/34

All: 1993.287 ± 0.236 χ^2/NDF : 1515198.8/65

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 11.914 ± 0.546 χ^2/NDF : 39.9/15

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: 5.902 ± 0.395 χ^2/NDF : 470.9/29

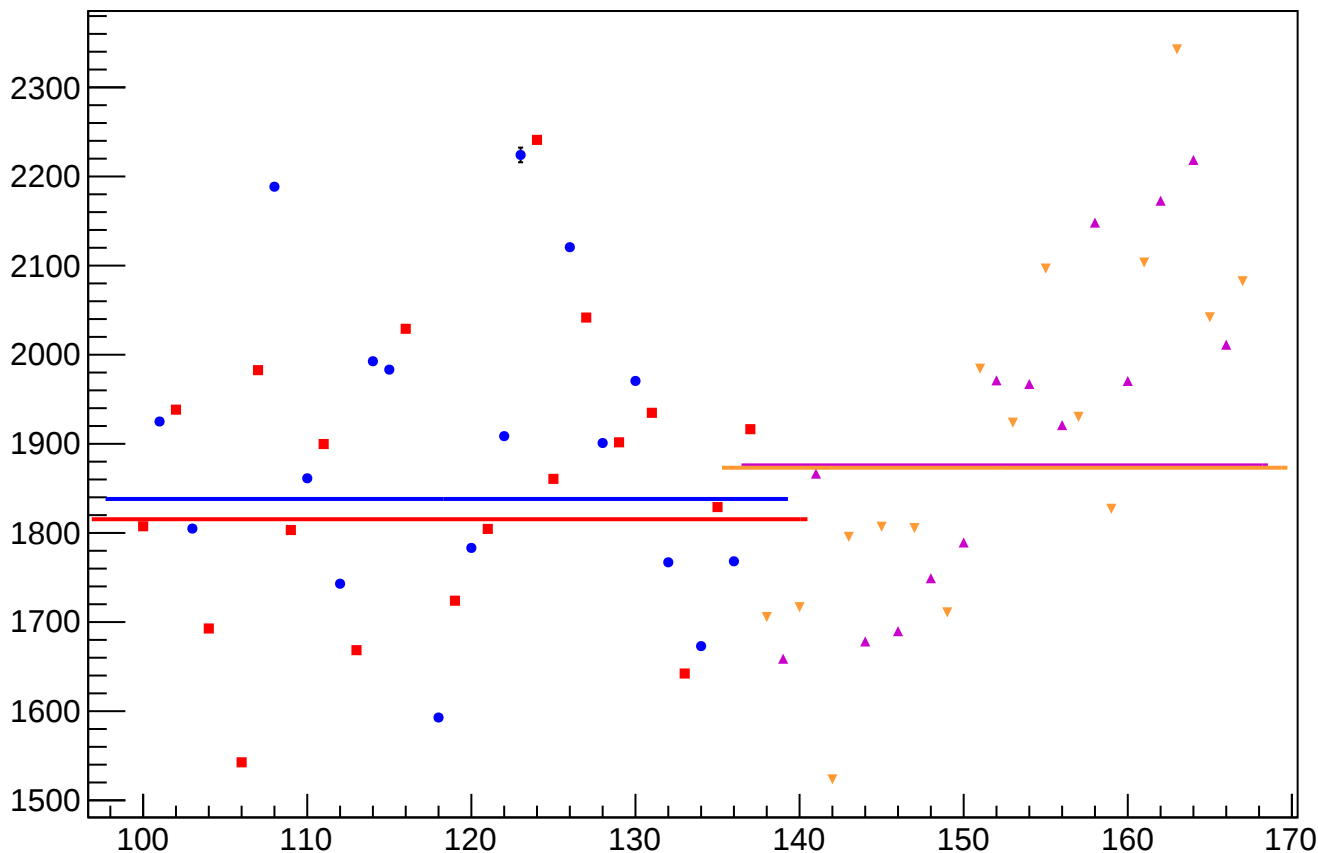
Right: 1.840 ± 0.492 χ^2/NDF : 321.6/35

In: 2.869 ± 0.446 χ^2/NDF : 320.6/30

Out: 5.623 ± 0.426 χ^2/NDF : 493.3/34

All: 4.310 ± 0.308 χ^2/NDF : 833.8/65

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1873.207 $\pm$ 0.386 χ^2/NDF : 223254.4/15

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: 1874.445 $\pm$ 0.280 χ^2/NDF : 401902.2/29

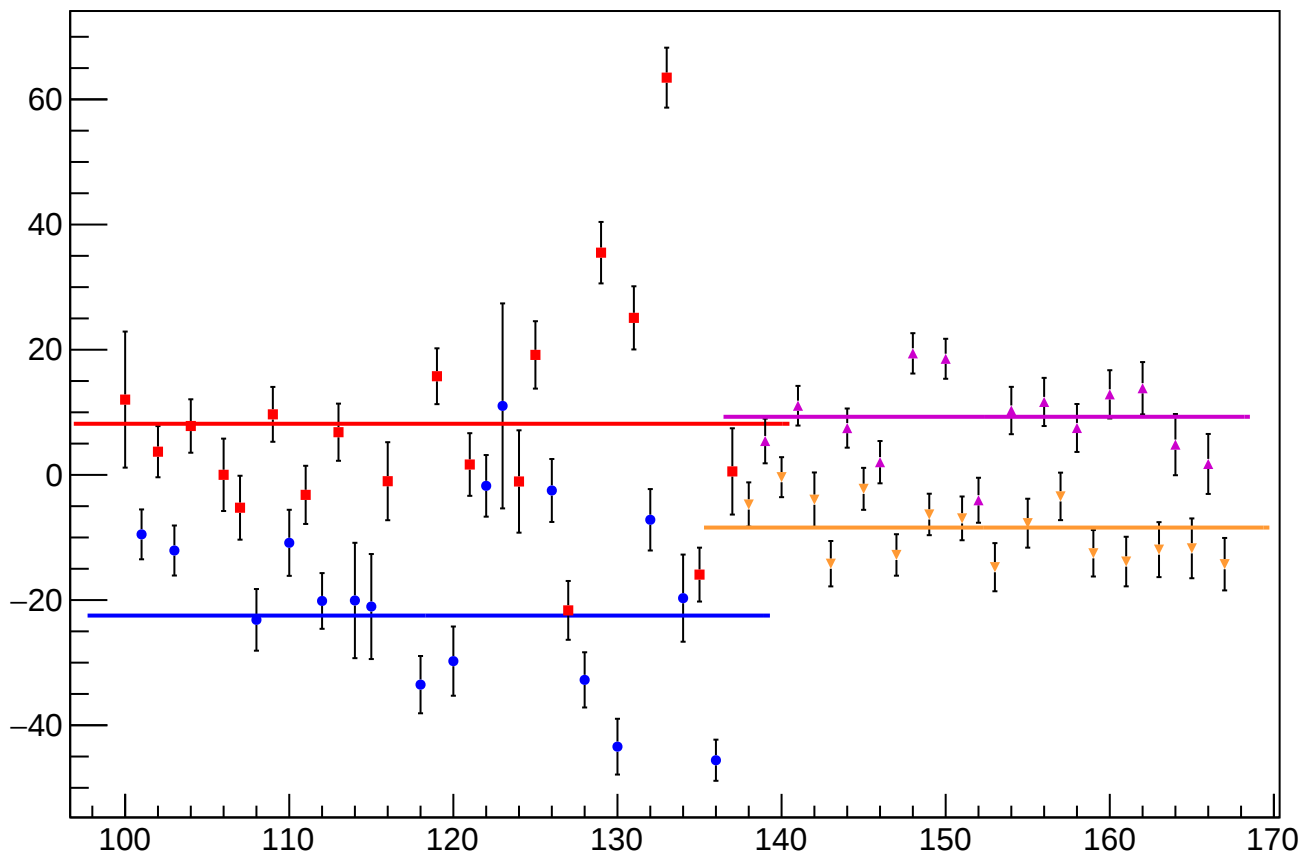
Right: 1826.303 $\pm$ 0.348 χ^2/NDF : 171362.3/35

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

Out: 1850.653 $\pm$ 0.301 χ^2/NDF : 319424.9/34

All: 1855.573 $\pm$ 0.218 χ^2/NDF : 584888.0/65

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

Left Out: -8.416 ± 0.932 χ^2/NDF : 27.4/15

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

Left In: 9.284 ± 0.974 χ^2/NDF : 44.5/13

Left: 0.049 ± 0.673 χ^2/NDF : 244.3/29

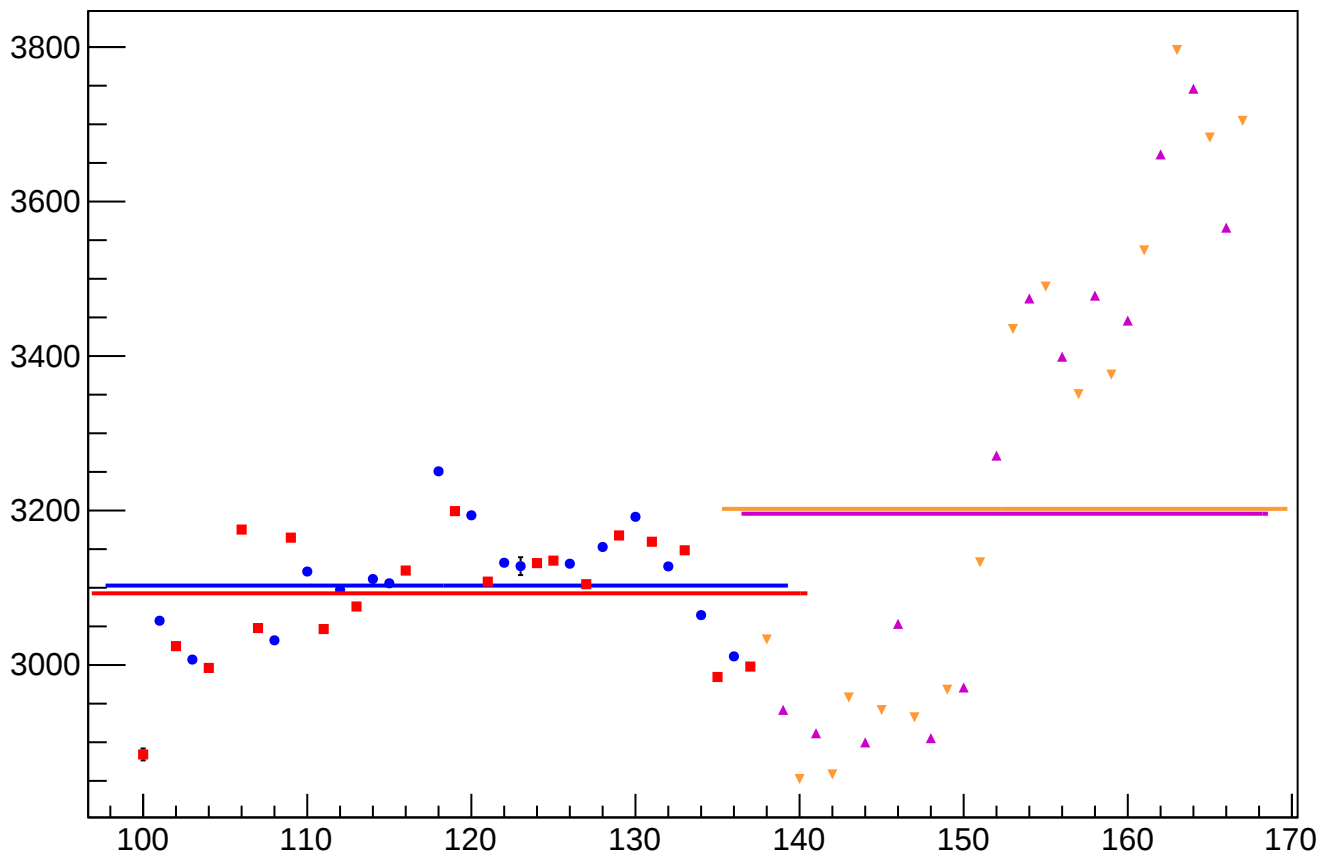
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.391 ± 0.755 χ^2/NDF : 623.9/30

Out: -1.885 ± 0.726 χ^2/NDF : 429.0/34

All: -2.608 ± 0.523 χ^2/NDF : 1055.0/65

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846+/-0.845 χ^2/NDF : 7344.9/16

Left Out: 3202.167+/-0.659 χ^2/NDF : 211599.7/15

Right Out: 3092.795+/-0.818 χ^2/NDF : 7763.4/18

Left In: 3195.823+/-0.688 χ^2/NDF : 172485.7/13

Left: 3199.133+/-0.476 χ^2/NDF : 384129.7/29

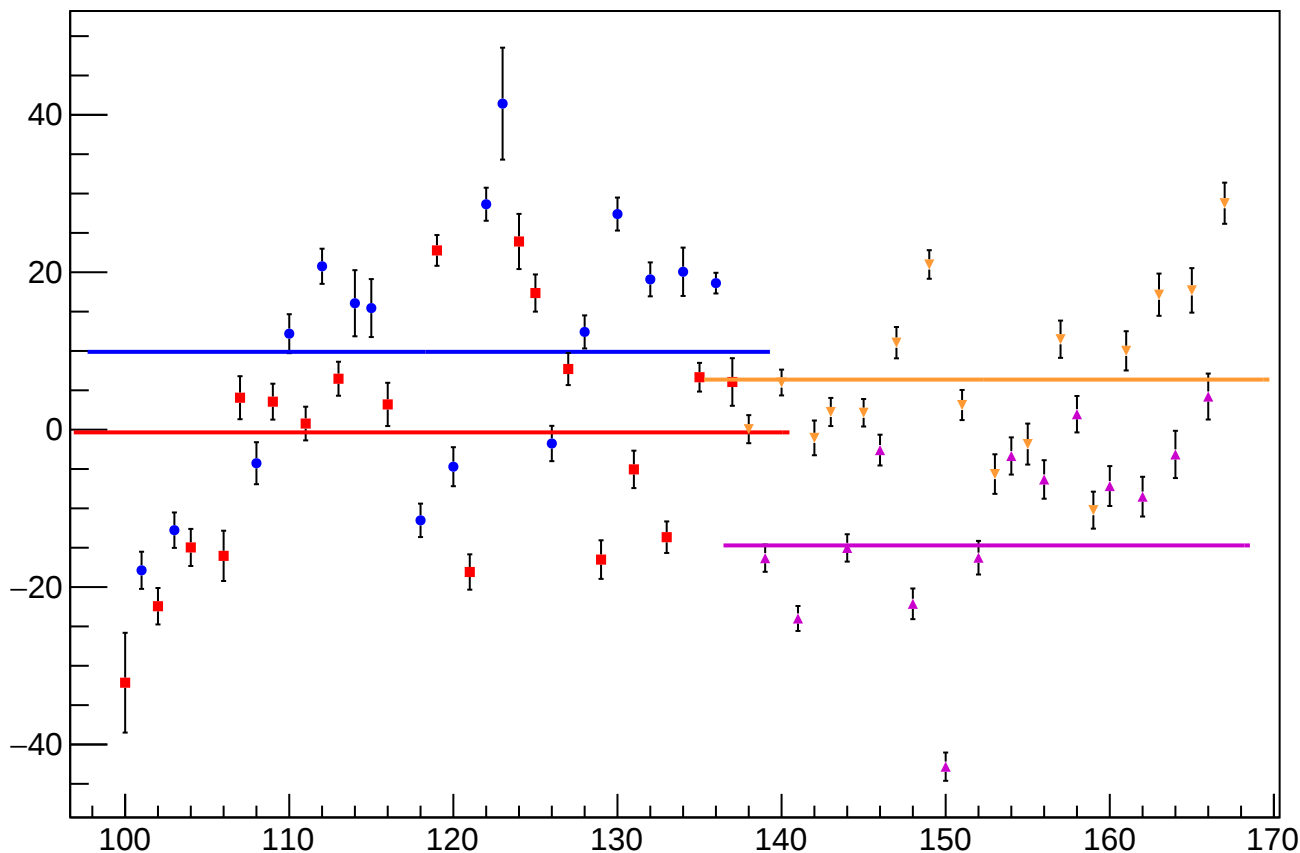
Right: 3097.657+/-0.588 χ^2/NDF : 15181.4/35

In: 3158.720+/-0.534 χ^2/NDF : 187109.7/30

Out: 3159.099+/-0.513 χ^2/NDF : 230206.7/34

All: 3158.917+/-0.370 χ^2/NDF : 417316.7/65

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

Left Out: 6.363 ± 0.527 $\chi^2/\text{NDF}: 303.2/15$

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

Left In: -14.708 ± 0.560 $\chi^2/\text{NDF}: 492.2/13$

Left: -3.540 ± 0.384 $\chi^2/\text{NDF}: 1546.2/29$

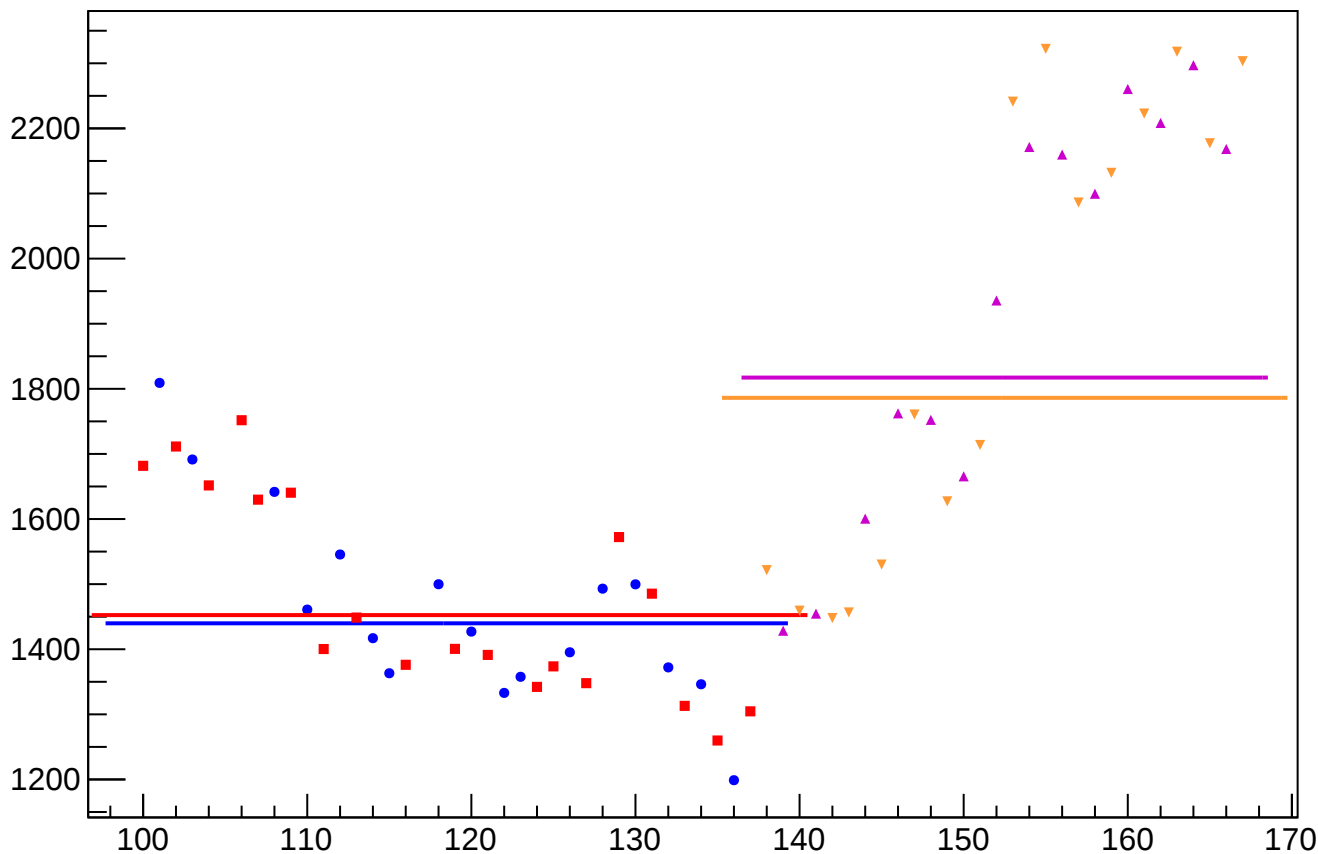
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

In: -2.402 ± 0.396 $\chi^2/\text{NDF}: 2161.4/30$

Out: 3.131 ± 0.380 $\chi^2/\text{NDF}: 1010.1/34$

All: 0.480 ± 0.274 $\chi^2/\text{NDF}: 3273.4/65$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1786.169 $\pm$ 0.373 χ^2/NDF : 782137.2/15

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: 1800.788 $\pm$ 0.271 χ^2/NDF : 1349217.9/29

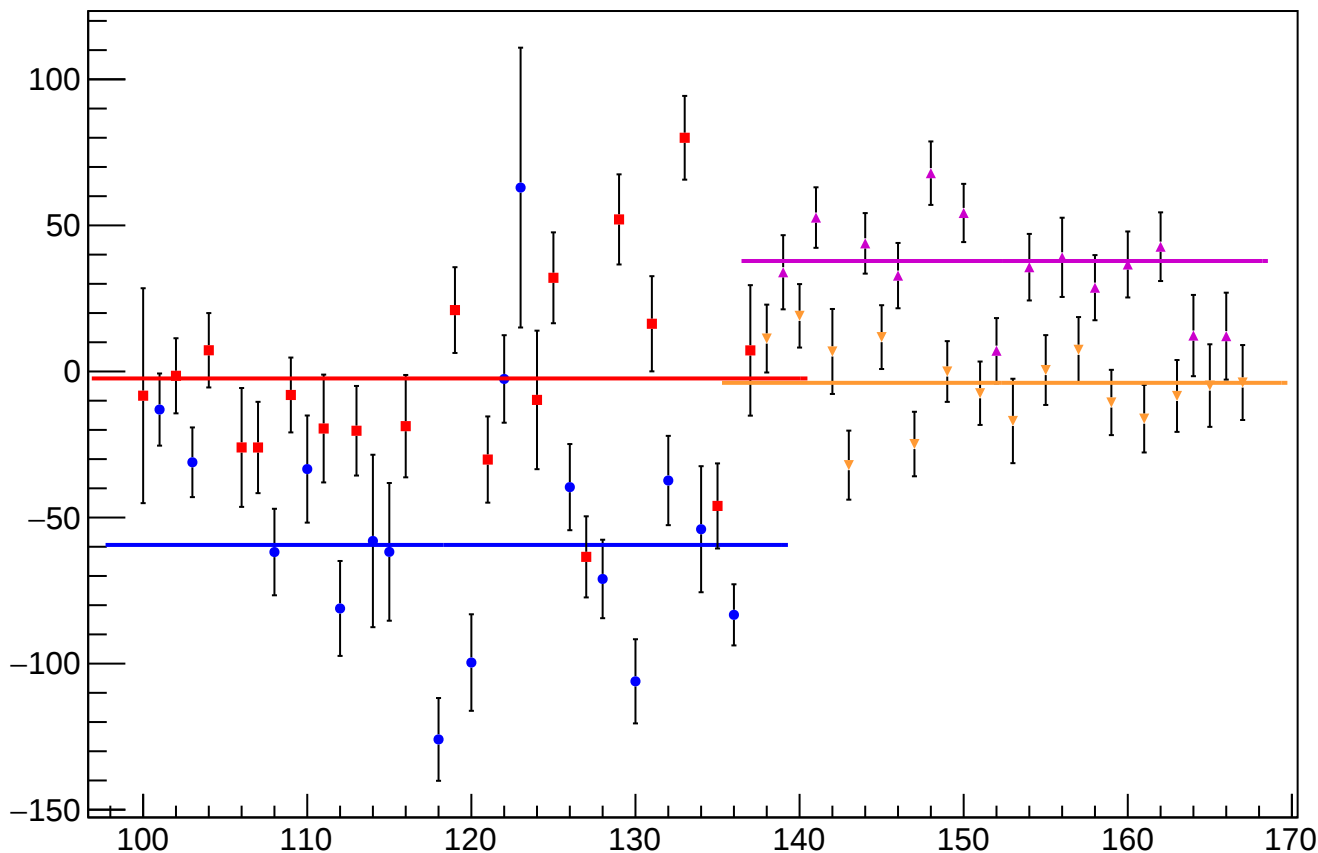
Right: 1446.283 $\pm$ 0.277 χ^2/NDF : 311864.1/35

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

Out: 1625.420 $\pm$ 0.268 χ^2/NDF : 1306657.8/34

All: 1626.856 $\pm$ 0.194 χ^2/NDF : 2498165.3/65

diff_bpm0l02X_mean vs Slug, Sign Corrected



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

Left Out: -3.889 ± 2.948 χ^2/NDF : 21.9/15

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: 16.047 ± 2.130 χ^2/NDF : 145.4/29

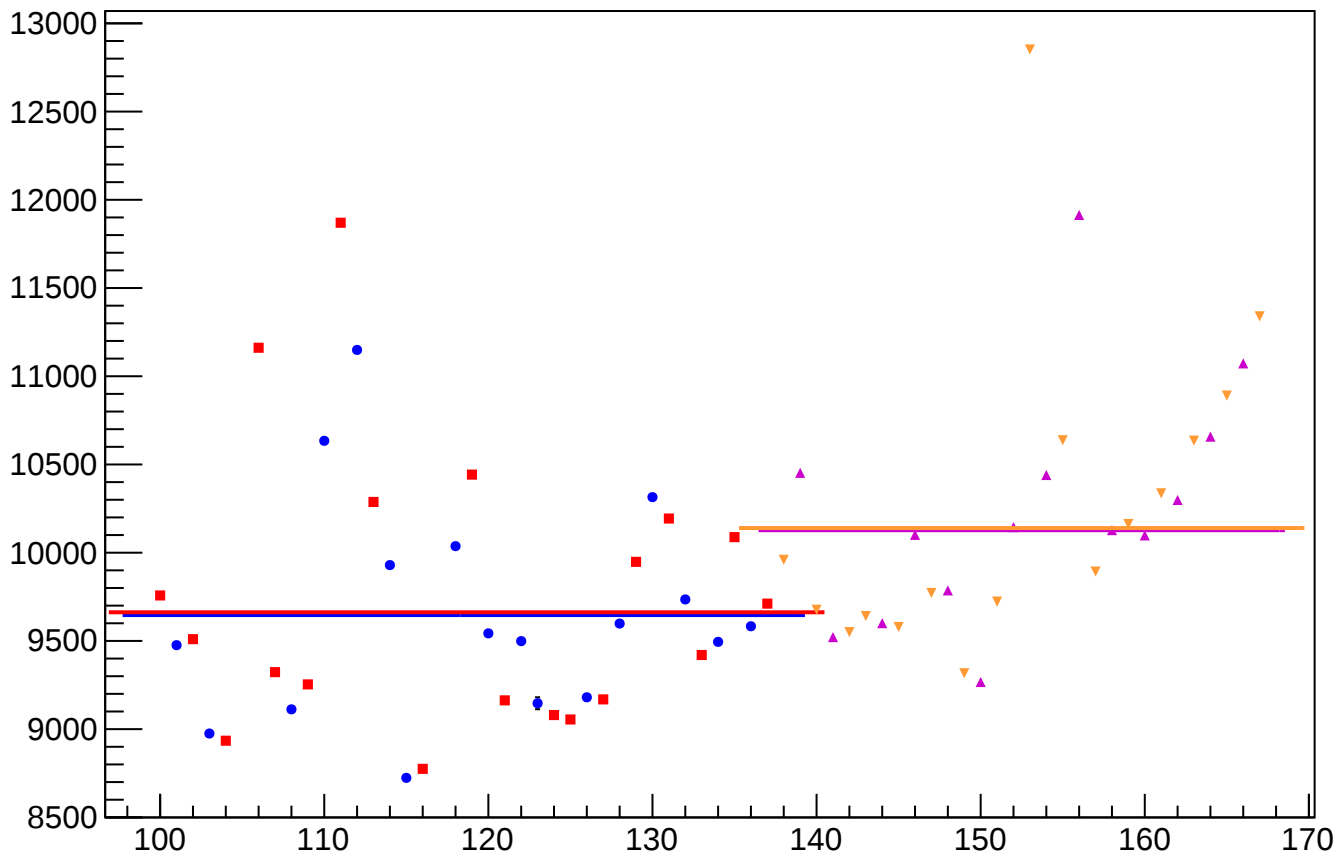
Right: -30.113 ± 2.601 χ^2/NDF : 306.8/35

In: -1.618 ± 2.375 χ^2/NDF : 524.5/30

Out: -3.292 ± 2.289 χ^2/NDF : 115.9/34

All: -2.486 ± 1.648 χ^2/NDF : 640.7/65

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480 ± 2.637 $\chi^2/\text{NDF}: 44060.3/16$

Left Out: 10139.719 ± 2.085 $\chi^2/\text{NDF}: 135830.4/15$

Right Out: 9662.363 ± 2.567 $\chi^2/\text{NDF}: 77584.0/18$

Left In: 10127.495 ± 2.179 $\chi^2/\text{NDF}: 77864.8/13$

Left: 10133.876 ± 1.506 $\chi^2/\text{NDF}: 213711.6/29$

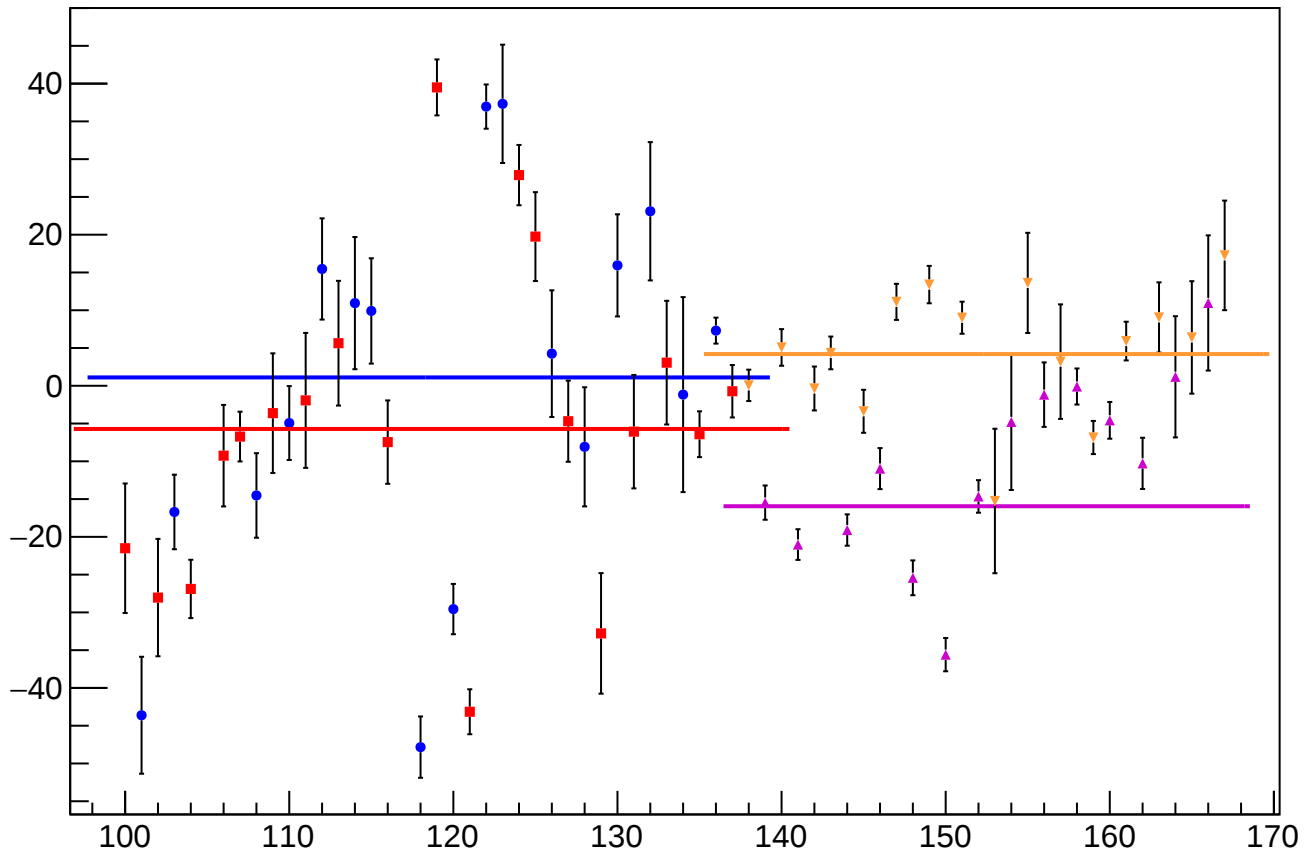
Right: 9654.635 ± 1.839 $\chi^2/\text{NDF}: 121662.9/35$

In: 9932.330 ± 1.679 $\chi^2/\text{NDF}: 141703.1/30$

Out: 9949.949 ± 1.618 $\chi^2/\text{NDF}: 234254.7/34$

All: 9941.467 ± 1.165 $\chi^2/\text{NDF}: 376014.9/65$

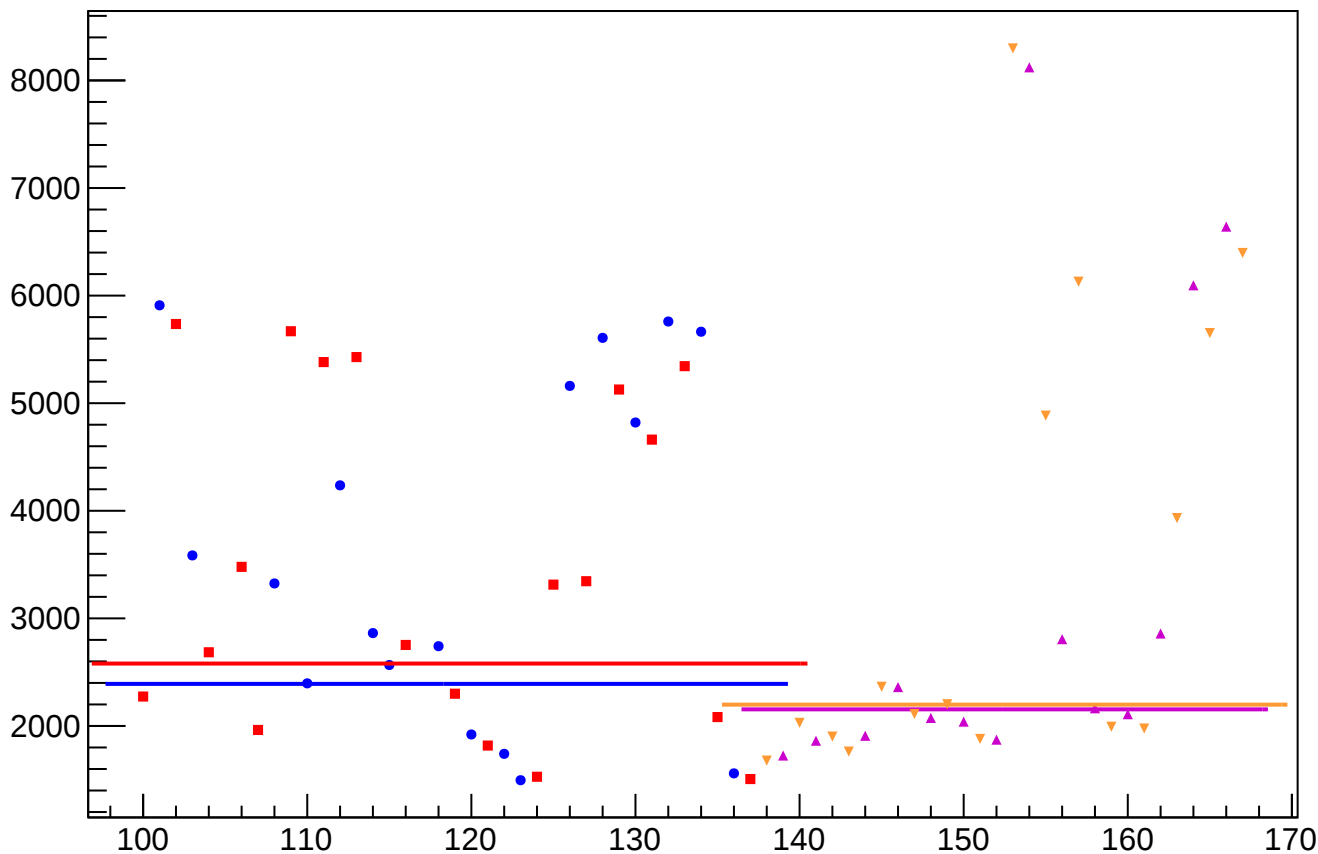
diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 ± 1.066 $\chi^2/\text{NDF}: 489.7/16$
 Left Out: 4.197 ± 0.723 $\chi^2/\text{NDF}: 77.3/15$
 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: -5.948 ± 0.509 $\chi^2/\text{NDF}: 672.6/29$
 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: 1.172 ± 0.603 $\chi^2/\text{NDF}: 590.7/34$
 All: -4.800 ± 0.424 $\chi^2/\text{NDF}: 1654.7/65$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2198.163 $\pm$ 0.511 χ^2/NDF : 3382846.0/15

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: 2176.100 $\pm$ 0.360 χ^2/NDF : 5576882.2/29

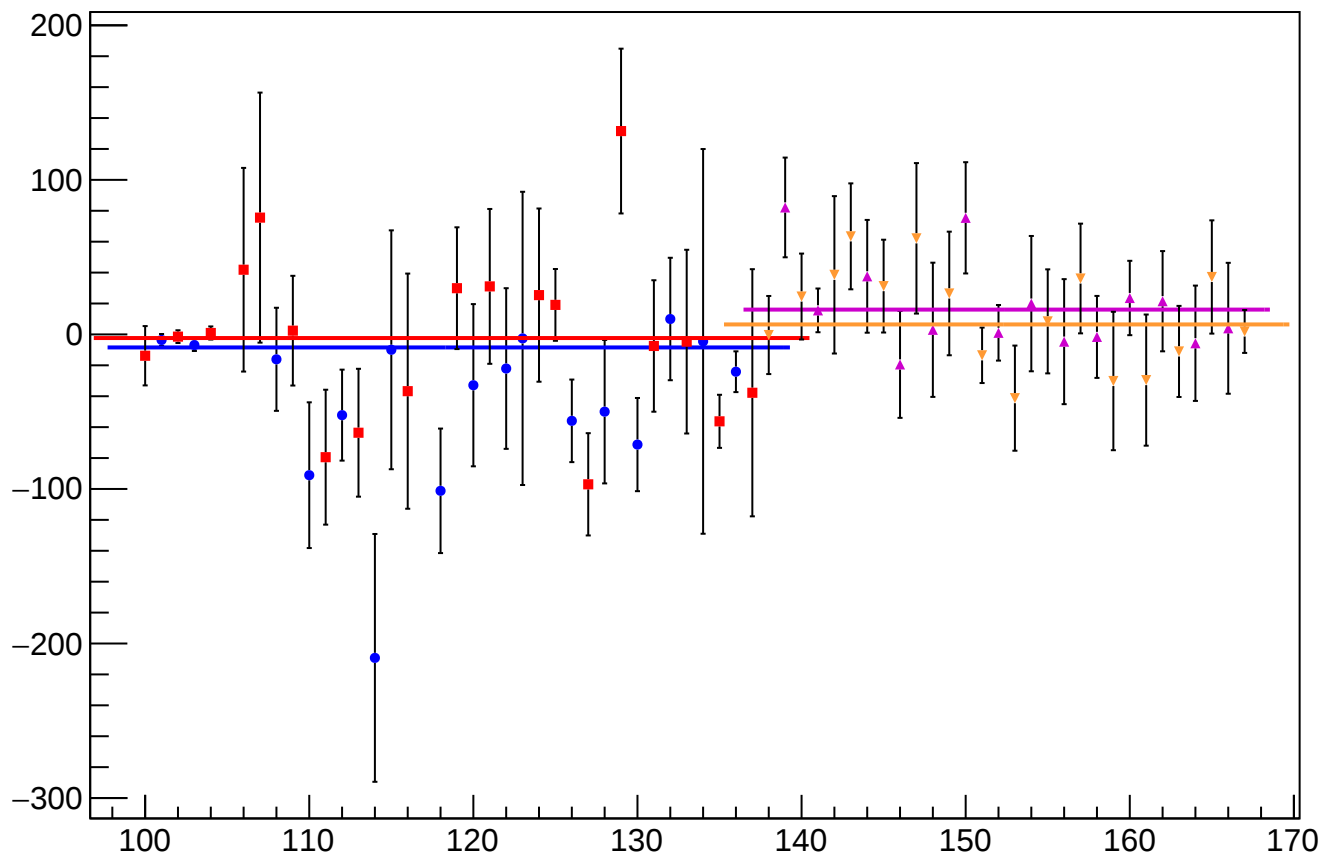
Right: 2483.443 $\pm$ 0.539 χ^2/NDF : 4996468.7/35

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

Out: 2314.709 $\pm$ 0.426 χ^2/NDF : 5918333.5/34

All: 2270.932 $\pm$ 0.300 χ^2/NDF : 10797926.9/6

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 6.457 $\pm$ 7.064 χ^2/NDF :12.4/15

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: 11.056 $\pm$ 5.097 χ^2/NDF : 23.6/29

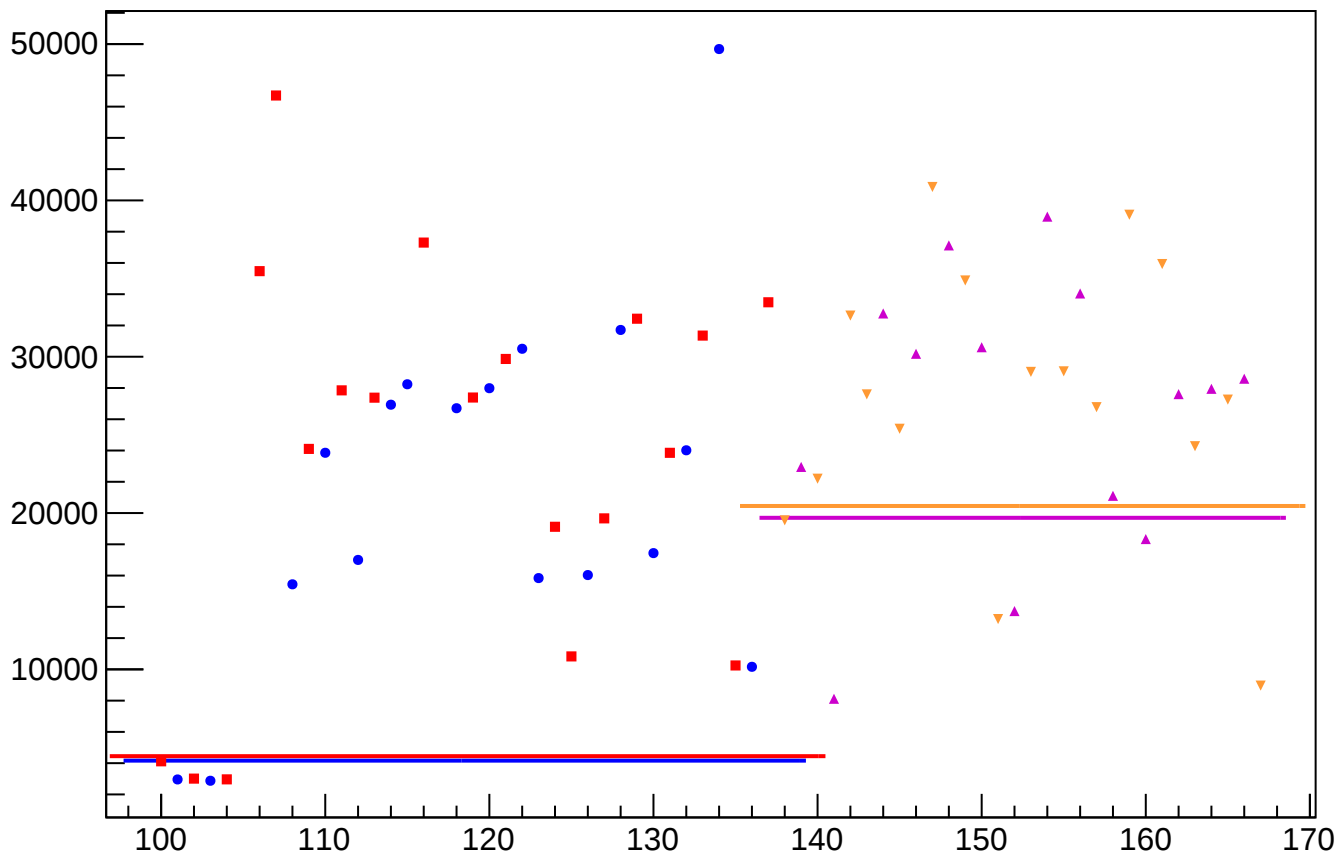
Right: -5.615 $\pm$ 1.896 χ^2/NDF : 66.1/35

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

Out: -1.162 $\pm$ 2.592 χ^2/NDF :48.4/34

All: -3.588 $\pm$ 1.777 χ^2/NDF : 99.1/65

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

Left Out: 20452.133+/-4.995 χ^2/NDF : 3610002.2/15

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: 20089.527+/-3.604 χ^2/NDF : 7103629.8/29

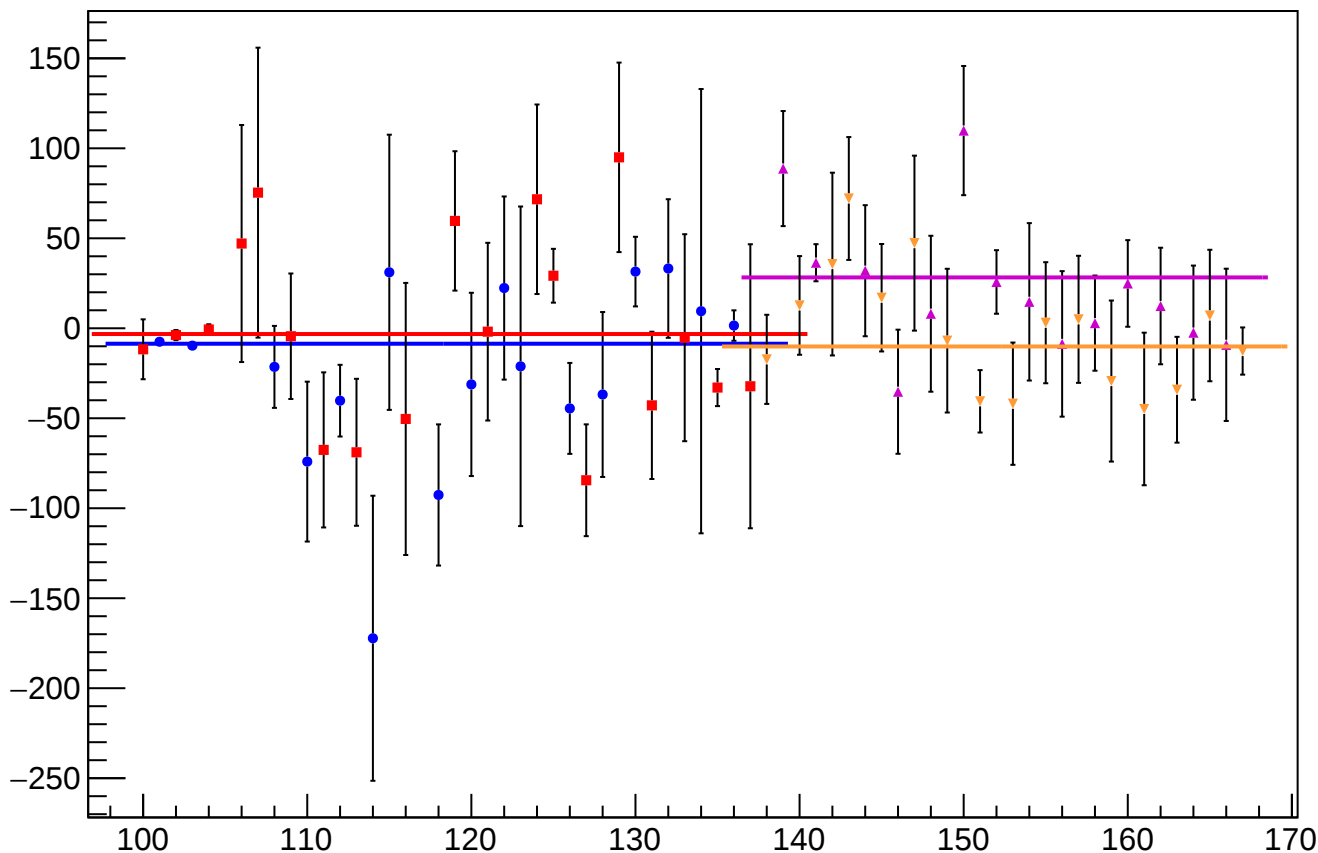
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

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

Out: 6602.752+/-1.833 χ^2/NDF : 19921553.3/34

All: 6214.291+/-1.257 χ^2/NDF : 37402675.1/6

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -10.113 $\pm$ 6.895 χ^2/NDF : 15.7/15

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: 9.932 $\pm$ 4.764 χ^2/NDF : 48.5/29

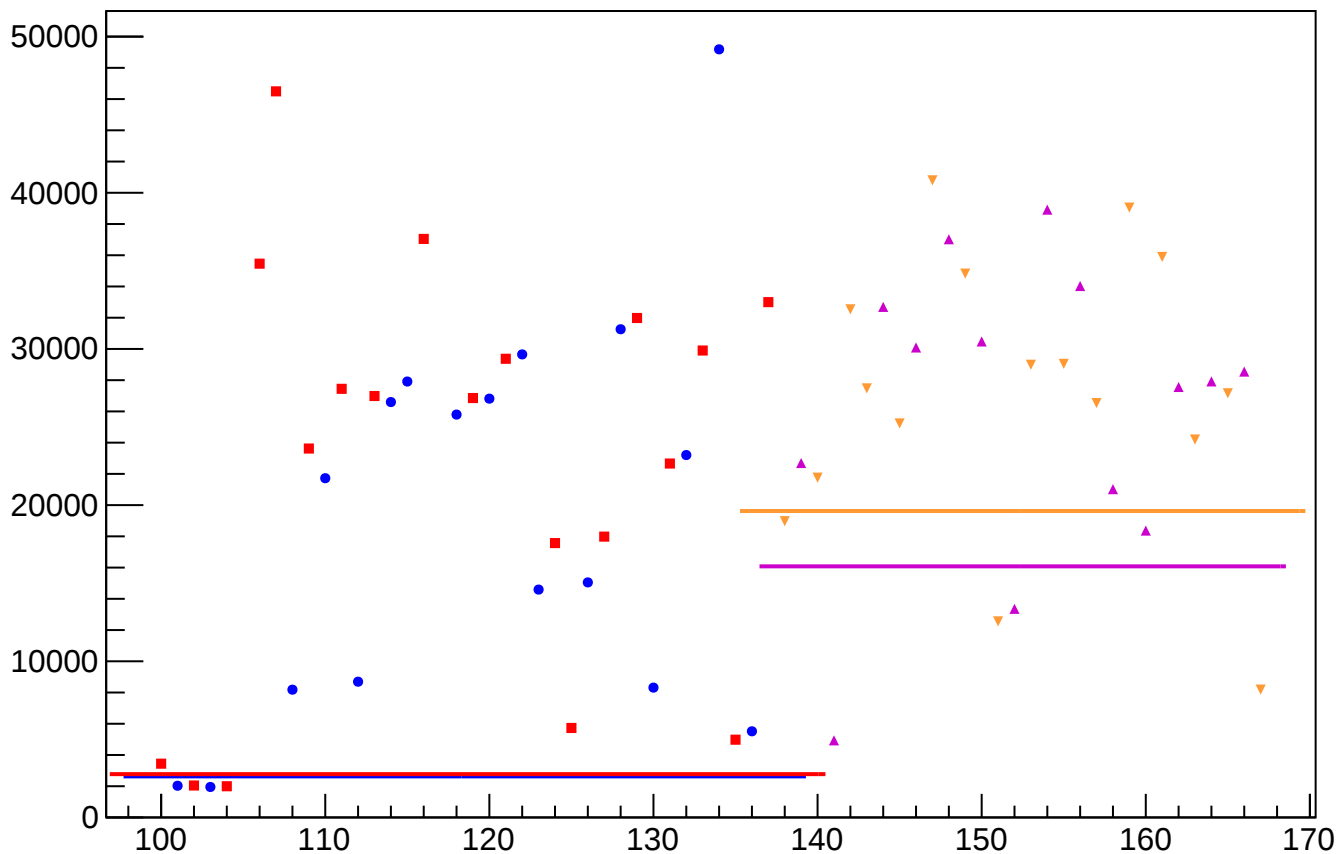
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

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

Out: -3.693 $\pm$ 1.852 χ^2/NDF : 53.5/34

All: -4.981 $\pm$ 1.259 χ^2/NDF : 124.5/65

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19622.247 ± 4.875 $\chi^2/\text{NDF}: 4033352.5/15$

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: 17771.092 ± 3.369 $\chi^2/\text{NDF}: 9969037.8/29$

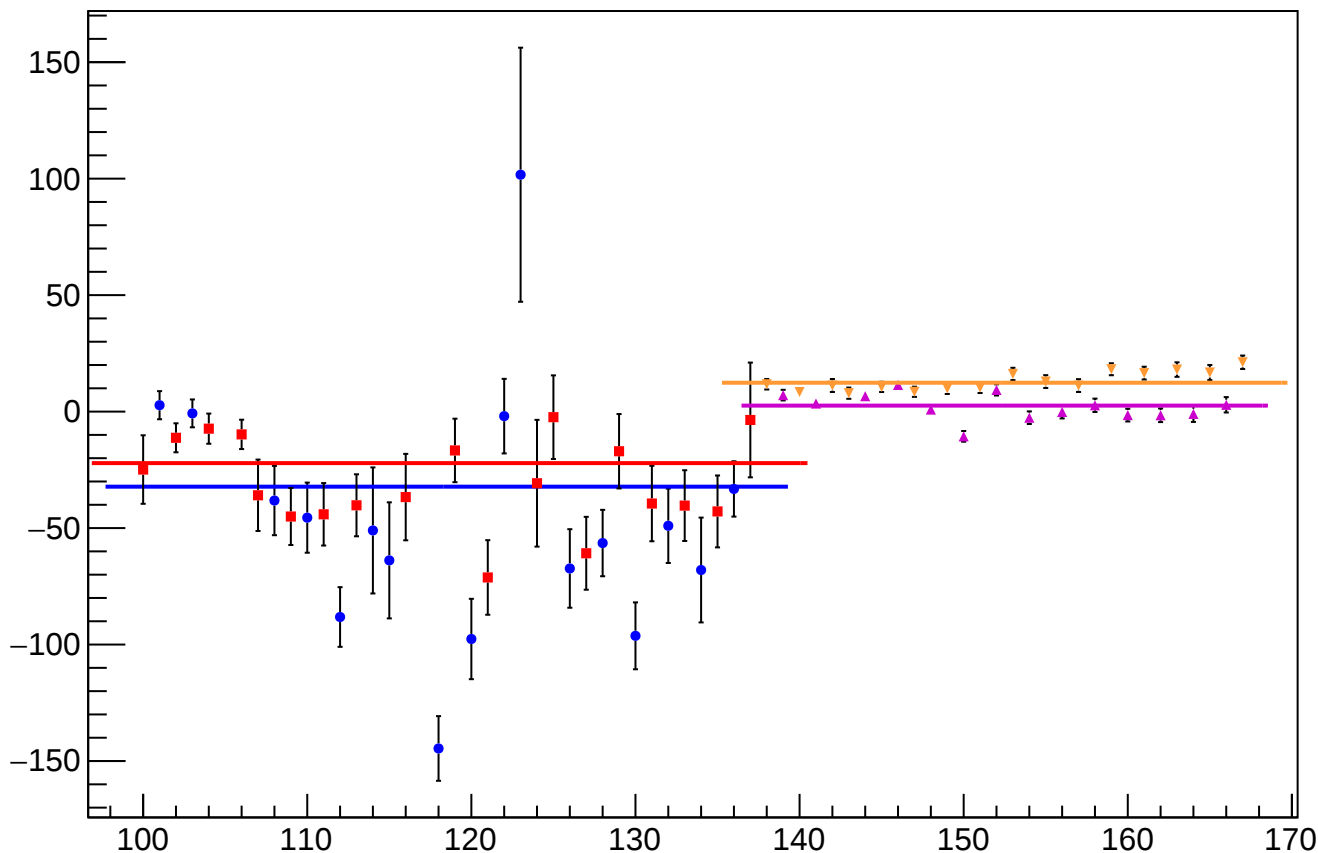
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

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

Out: 3988.695 ± 1.309 $\chi^2/\text{NDF}: 22952054.8/34$

All: 3748.745 ± 0.890 $\chi^2/\text{NDF}: 42025094.9/6$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 12.395 ± 0.633 χ^2/NDF : 36.8/15

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: 7.720 ± 0.458 χ^2/NDF : 228.5/29

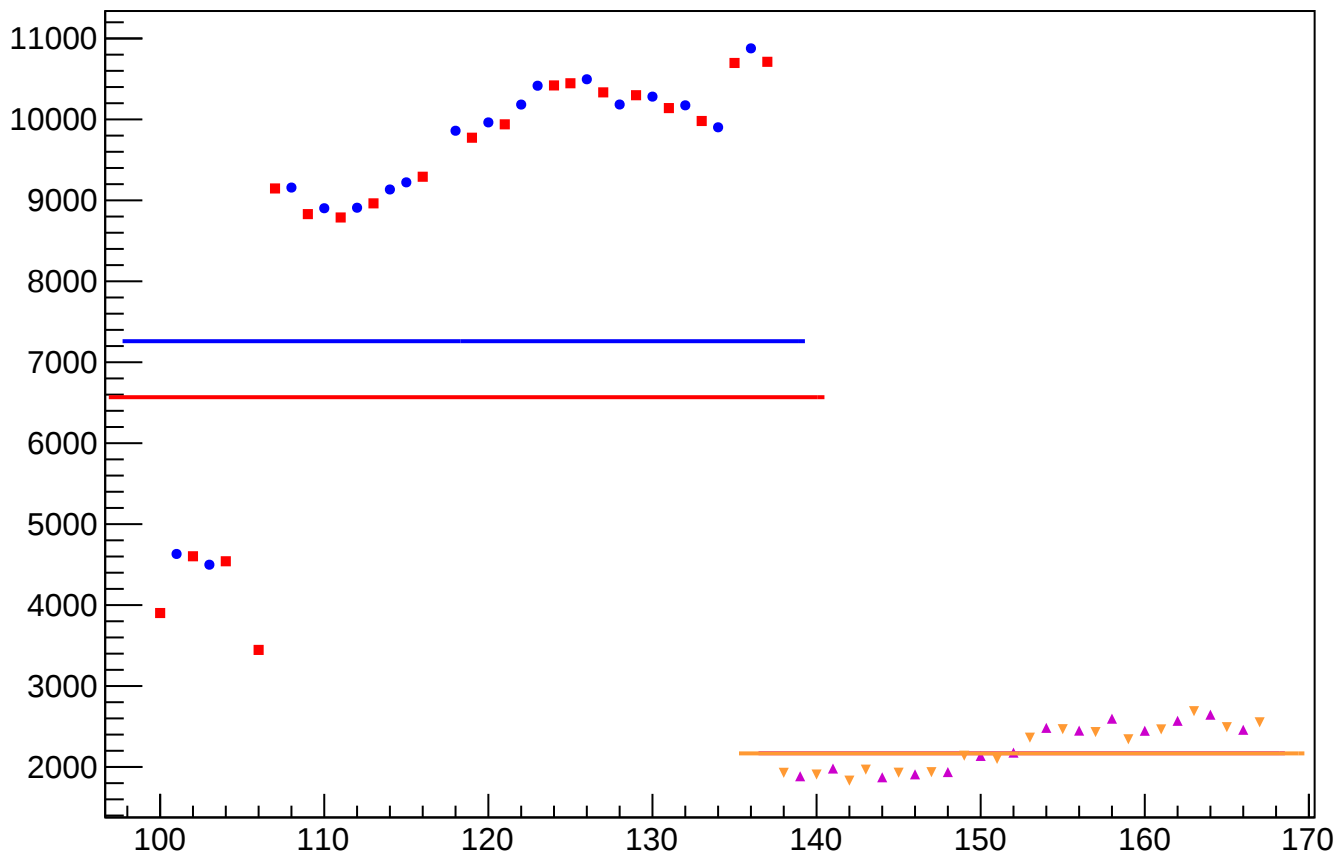
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 0.928 ± 0.648 χ^2/NDF : 410.6/30

Out: 10.559 ± 0.616 χ^2/NDF : 238.7/34

All: 5.990 ± 0.446 χ^2/NDF : 765.2/65

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2167.680+/-0.448 χ^2/NDF : 339753.7/15

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: 2168.659+/-0.324 χ^2/NDF : 686274.6/29

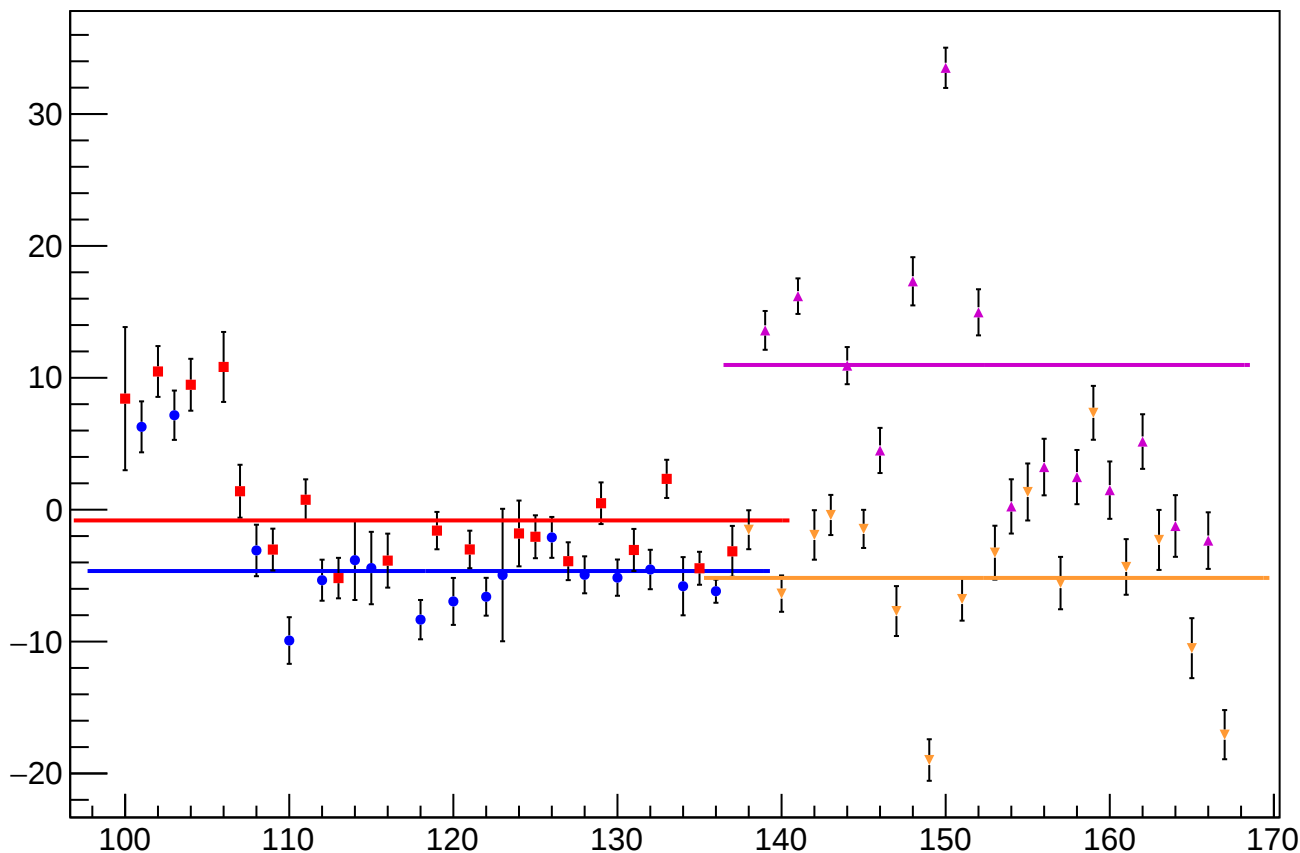
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

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

Out: 2401.924+/-0.435 χ^2/NDF : 7682436.7/34

All: 2405.932+/-0.316 χ^2/NDF : 15220097.9/66

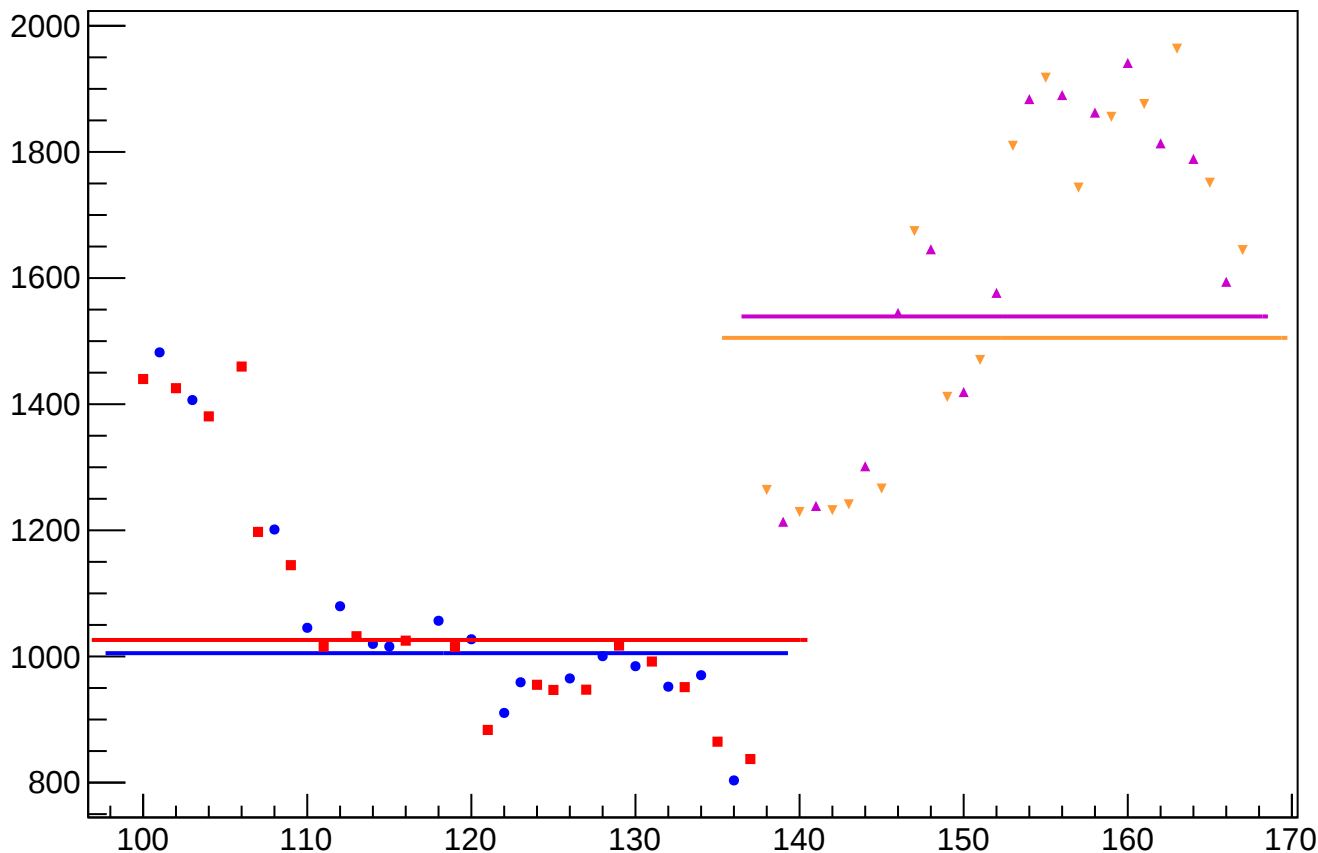
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -5.173 ± 0.444 $\chi^2/\text{NDF}: 201.3/15$
 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: 2.365 ± 0.324 $\chi^2/\text{NDF}: 1237.0/29$
 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: -2.706 ± 0.292 $\chi^2/\text{NDF}: 379.6/34$
 All: -0.576 ± 0.210 $\chi^2/\text{NDF}: 1648.7/65$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1505.190 ± 0.314 $\chi^2/\text{NDF}: 697346.5/15$

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: 1521.032 ± 0.229 $\chi^2/\text{NDF}: 1263728.0/29$

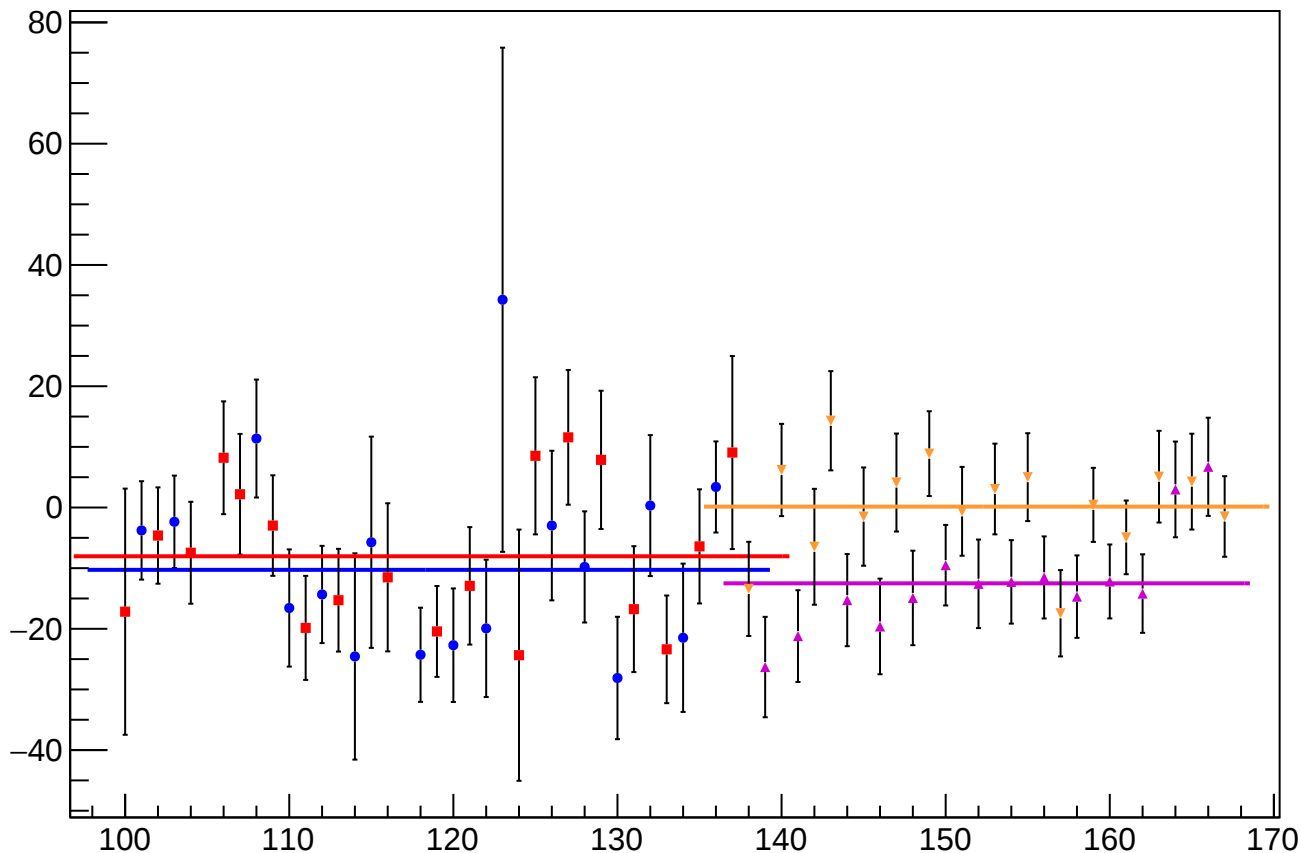
Right: 1015.803 ± 0.195 $\chi^2/\text{NDF}: 697945.4/35$

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

Out: 1234.026 ± 0.207 $\chi^2/\text{NDF}: 2349934.9/34$

All: 1228.405 ± 0.149 $\chi^2/\text{NDF}: 4778560.9/65$

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.277 ± 2.408 χ^2/NDF : 23.5/16

Left Out: 0.153 ± 1.838 χ^2/NDF : 17.2/15

Right Out: -8.041 ± 2.278 χ^2/NDF : 22.8/18

Left In: -12.504 ± 1.924 χ^2/NDF : 15.0/13

Left: -5.883 ± 1.329 χ^2/NDF : 54.8/29

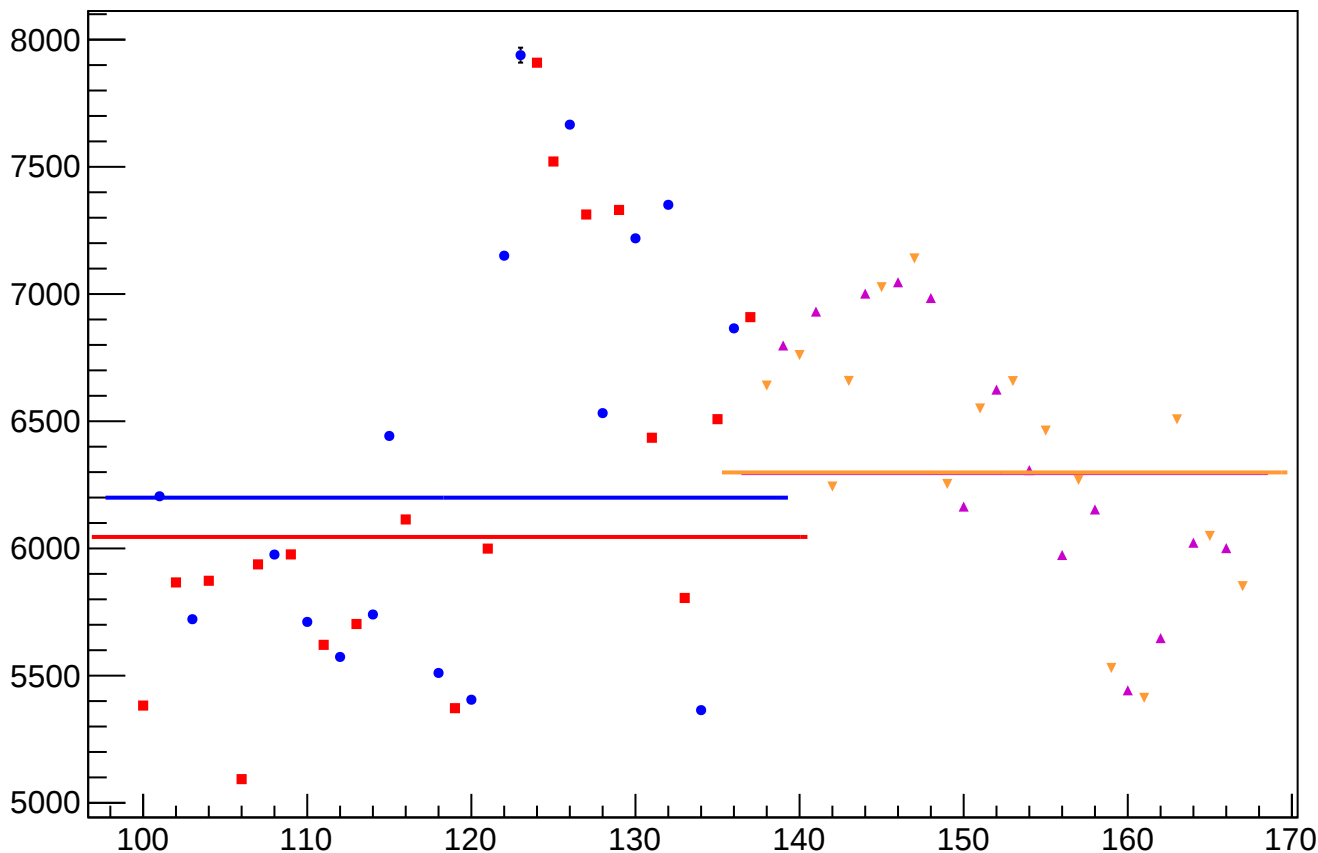
Right: -9.097 ± 1.655 χ^2/NDF : 46.7/35

In: -11.636 ± 1.503 χ^2/NDF : 39.0/30

Out: -3.076 ± 1.430 χ^2/NDF : 47.8/34

All: -7.143 ± 1.036 χ^2/NDF : 103.8/65

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6298.759 $\pm$ 1.299 χ^2/NDF : 147914.1/15

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: 6297.515 $\pm$ 0.940 χ^2/NDF : 294911.2/29

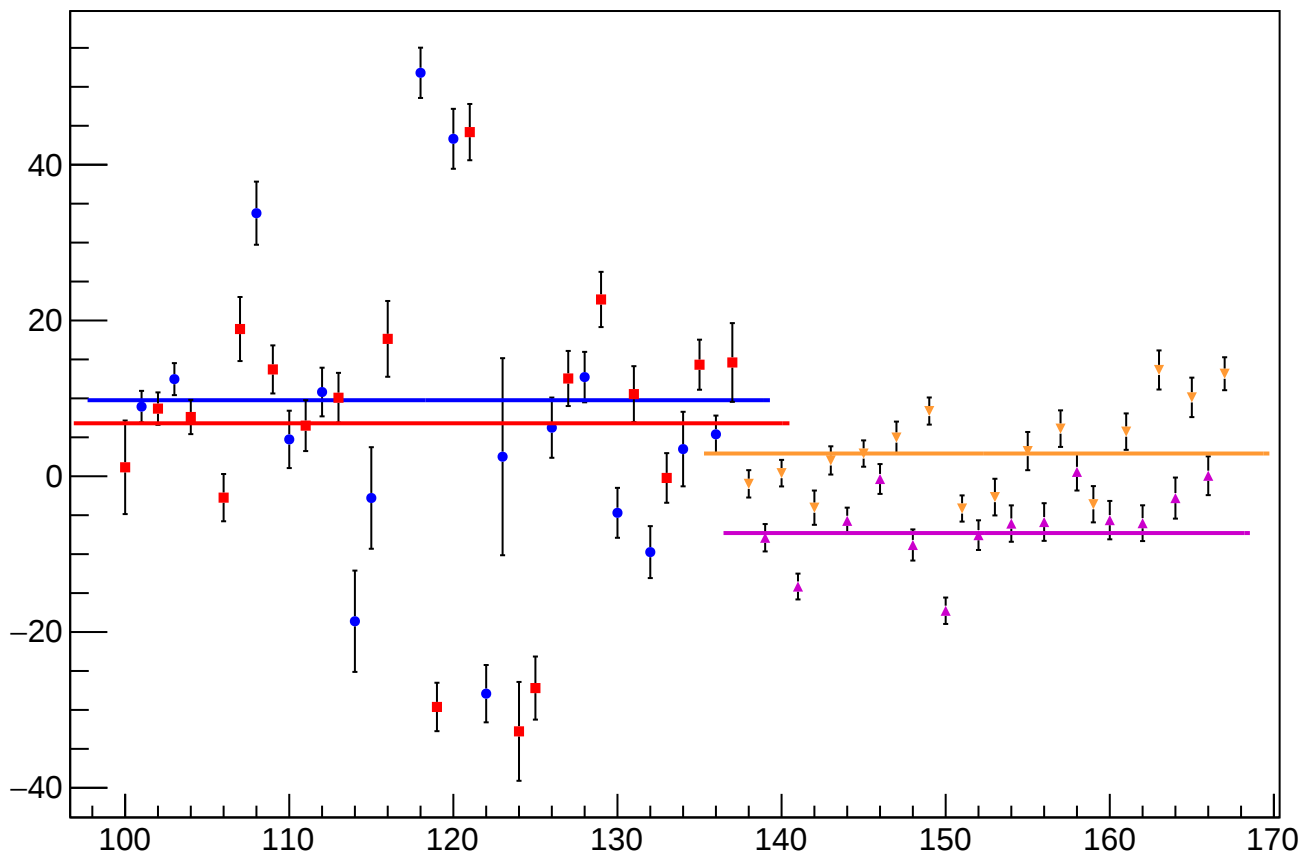
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

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

Out: 6198.816 $\pm$ 1.011 χ^2/NDF : 321248.0/34

All: 6227.186 $\pm$ 0.733 χ^2/NDF : 643621.0/65

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 $\pm$ 0.797 χ^2/NDF : 473.8/16

Left Out: 2.921 $\pm$ 0.507 χ^2/NDF :112.3/15

Right Out: 6.801 $\pm$ 0.765 χ^2/NDF : 421.8/18

Left In: -7.291 $\pm$ 0.545 χ^2/NDF :90.2/13

Left: -1.824 $\pm$ 0.371 χ^2/NDF : 390.7/29

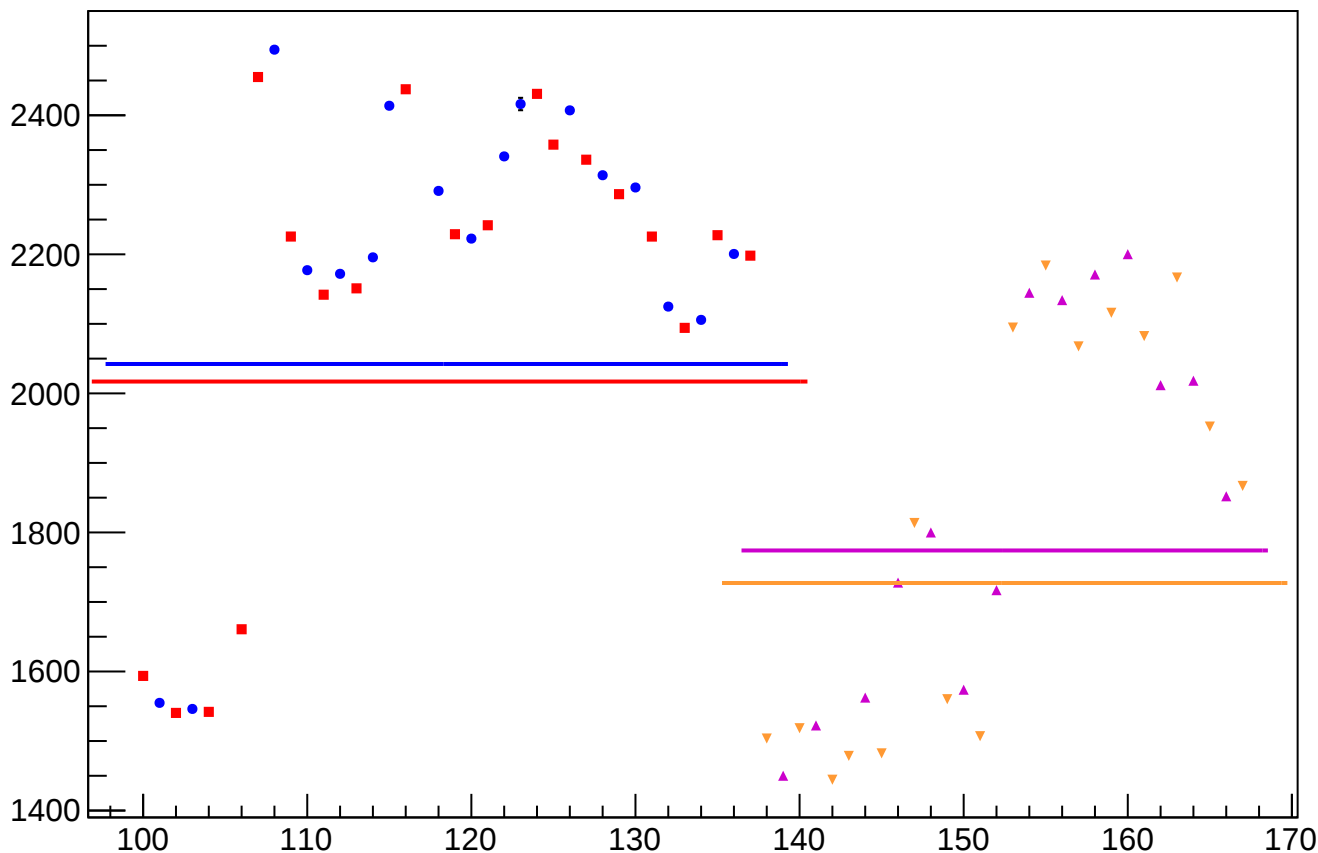
Right: 8.222 $\pm$ 0.552 χ^2/NDF : 902.8/35

In: -1.859 $\pm$ 0.450 χ^2/NDF :876.2/30

Out: 4.107 $\pm$ 0.423 χ^2/NDF :552.0/34

All: 1.307 $\pm$ 0.308 χ^2/NDF : 1521.7/65

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1727.284 $\pm$ 0.359 χ^2 /NDF: 579118.0/15

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

Left In: 1774.067 $\pm$ 0.385 χ^2 /NDF: 426528.4/13

Left: 1749.022 $\pm$ 0.263 χ^2 /NDF: 1013544.4/29

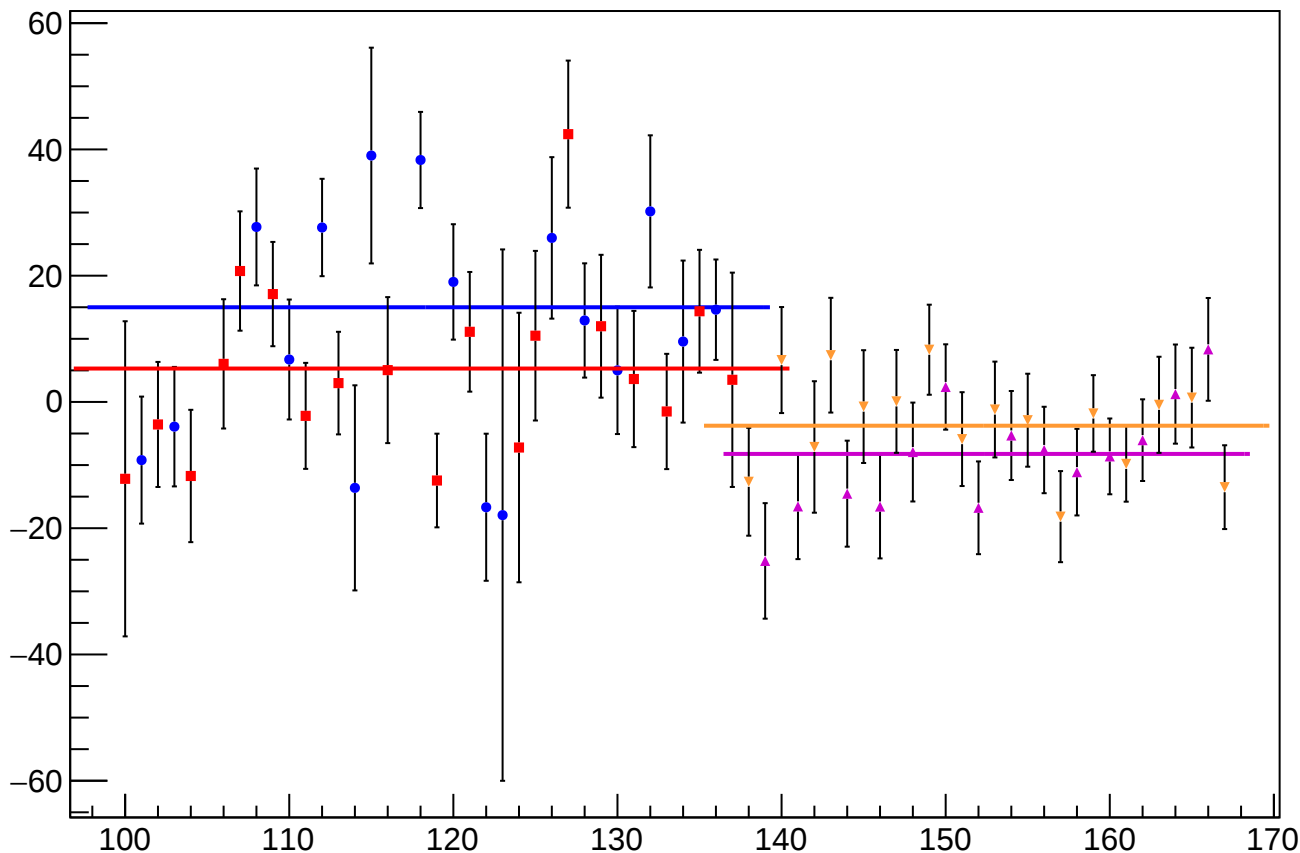
Right: 2029.129 $\pm$ 0.390 χ^2 /NDF: 733495.1/35

In: 1859.482 $\pm$ 0.318 χ^2 /NDF: 937762.7/30

Out: 1815.861 $\pm$ 0.299 χ^2 /NDF: 1154064.2/34

All: 1836.331 $\pm$ 0.218 χ^2 /NDF: 2101815.3/65

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.997 ± 2.485 $\chi^2/\text{NDF}: 41.3/16$

Left Out: -3.764 ± 1.888 $\chi^2/\text{NDF}: 15.4/15$

Right Out: 5.291 ± 2.357 $\chi^2/\text{NDF}: 28.1/18$

Left In: -8.234 ± 1.970 $\chi^2/\text{NDF}: 15.9/13$

Left: -5.904 ± 1.363 $\chi^2/\text{NDF}: 34.0/29$

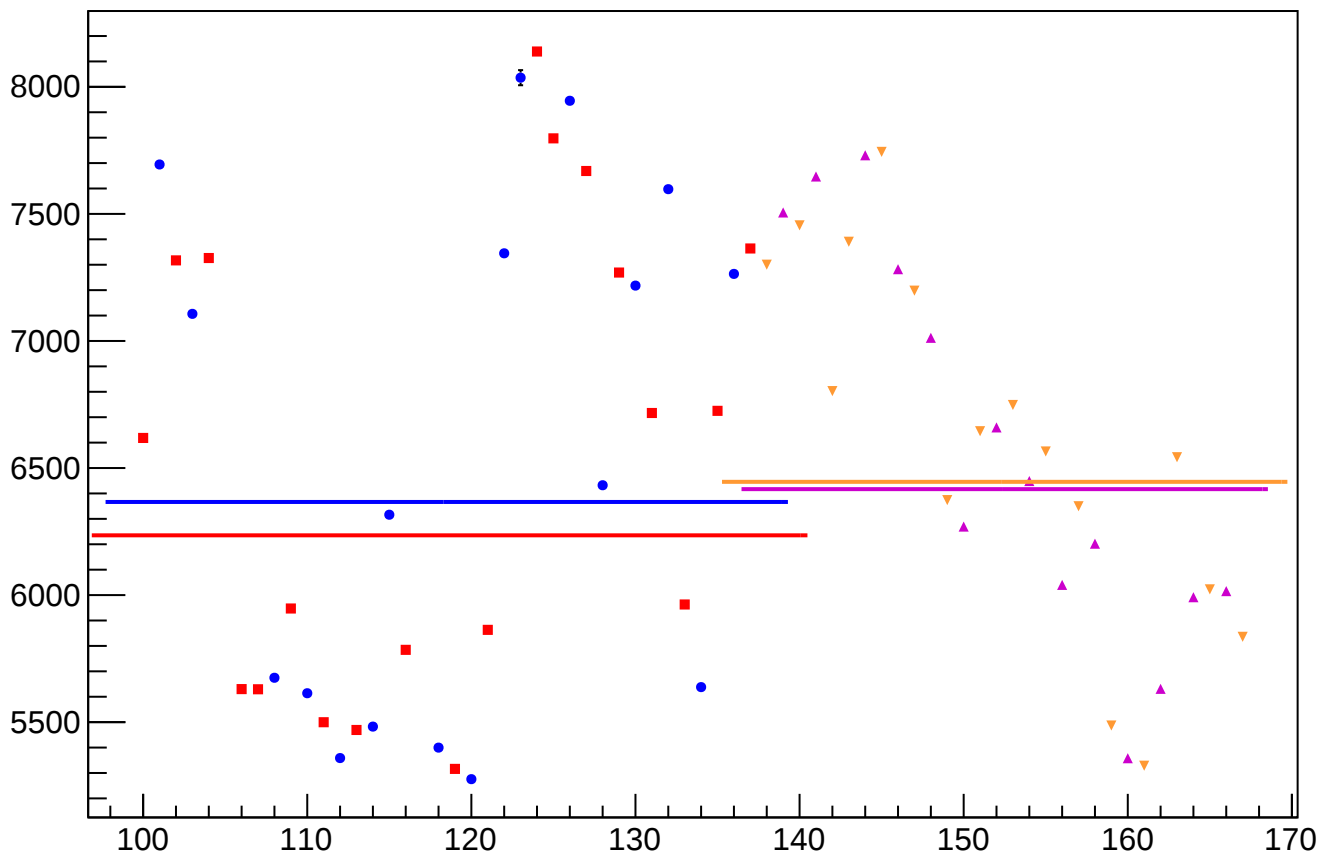
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: 0.730 ± 1.544 $\chi^2/\text{NDF}: 110.9/30$

Out: -0.227 ± 1.473 $\chi^2/\text{NDF}: 52.5/34$

All: 0.229 ± 1.066 $\chi^2/\text{NDF}: 163.5/65$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491 $\pm$ 1.757 χ^2 /NDF: 286494.5/16

Left Out: 6445.710 $\pm$ 1.335 χ^2 /NDF: 280392.1/15

Right Out: 6235.179 $\pm$ 1.667 χ^2 /NDF: 243204.0/18

Left In: 6416.942 $\pm$ 1.393 χ^2 /NDF: 268101.6/13

Left: 6431.940 $\pm$ 0.964 χ^2 /NDF: 548716.1/29

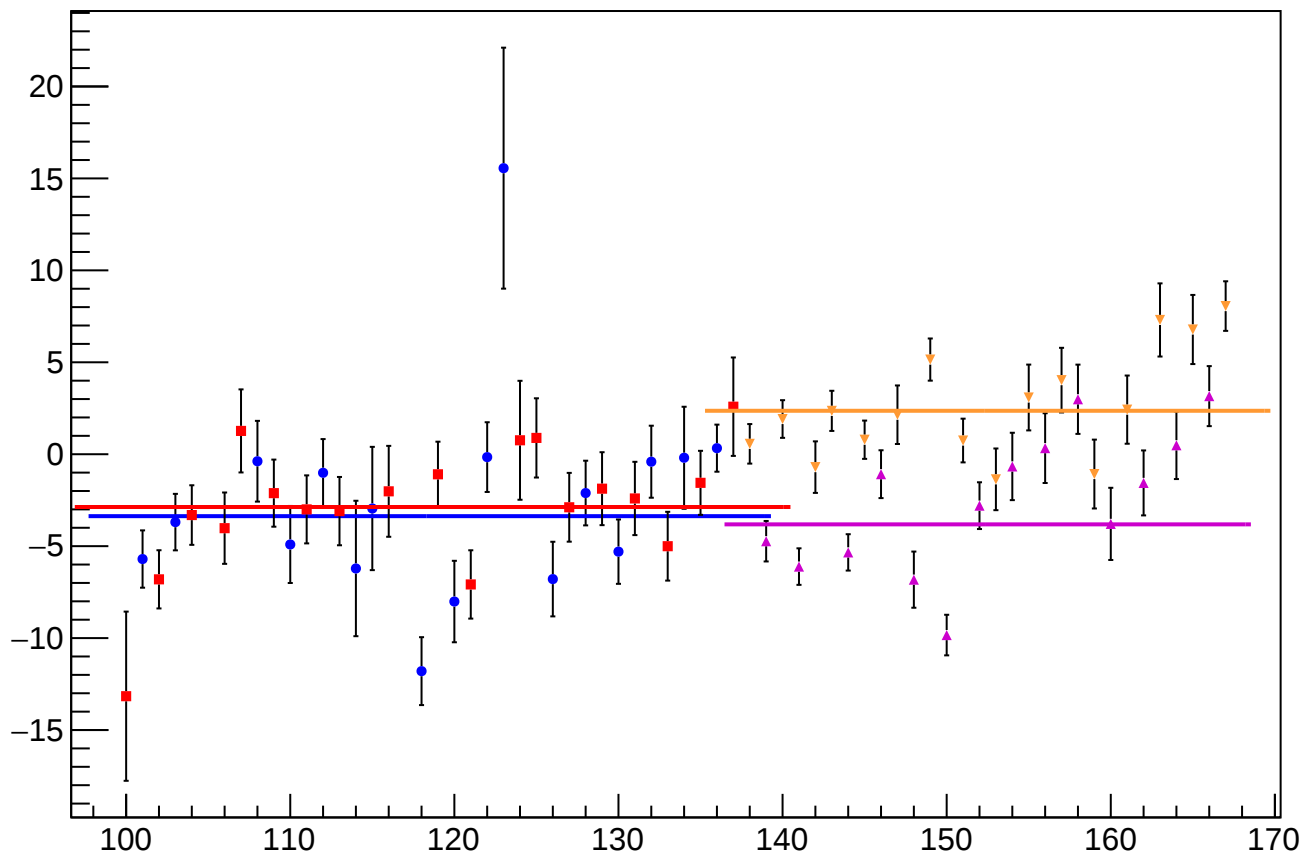
Right: 6297.369 $\pm$ 1.209 χ^2 /NDF: 532637.5/35

In: 6397.474 $\pm$ 1.092 χ^2 /NDF: 555102.3/30

Out: 6363.460 $\pm$ 1.042 χ^2 /NDF: 533315.6/34

All: 6379.674 $\pm$ 0.754 χ^2 /NDF: 1088925.9/65

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

Left Out: 2.363 ± 0.341 χ^2/NDF : 56.7/15

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: -0.499 ± 0.250 χ^2/NDF : 302.1/29

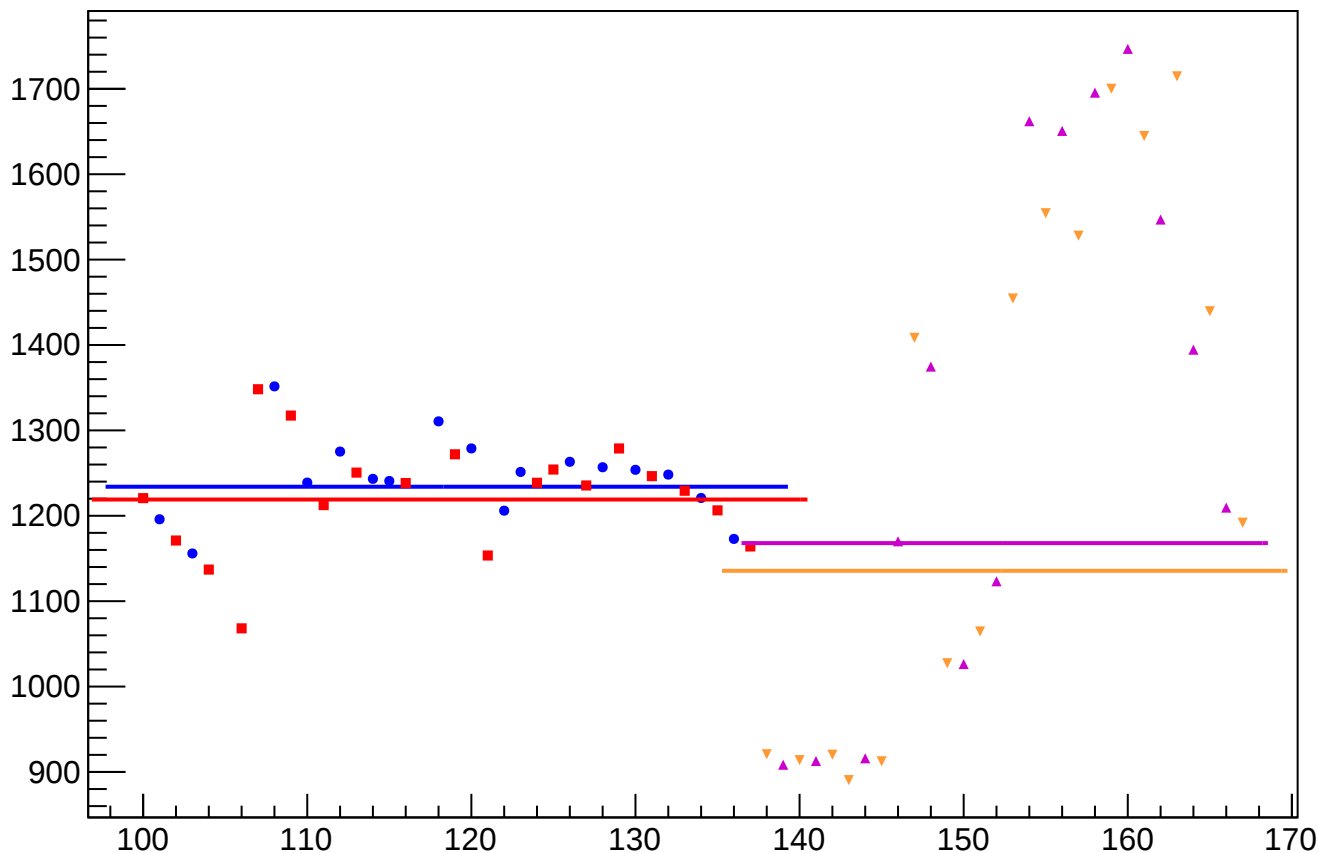
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -3.648 ± 0.290 χ^2/NDF : 153.7/30

Out: 0.489 ± 0.273 χ^2/NDF : 173.2/34

All: -1.452 ± 0.199 χ^2/NDF : 434.5/65

diff_bpm0l06Y_rms vs Slug, Sign Corrected



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

Left Out: 1135.569 $\pm$ 0.241 χ^2 /NDF:1336600.6/15

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: 1150.597 $\pm$ 0.177 χ^2 /NDF: 2519606.7/29

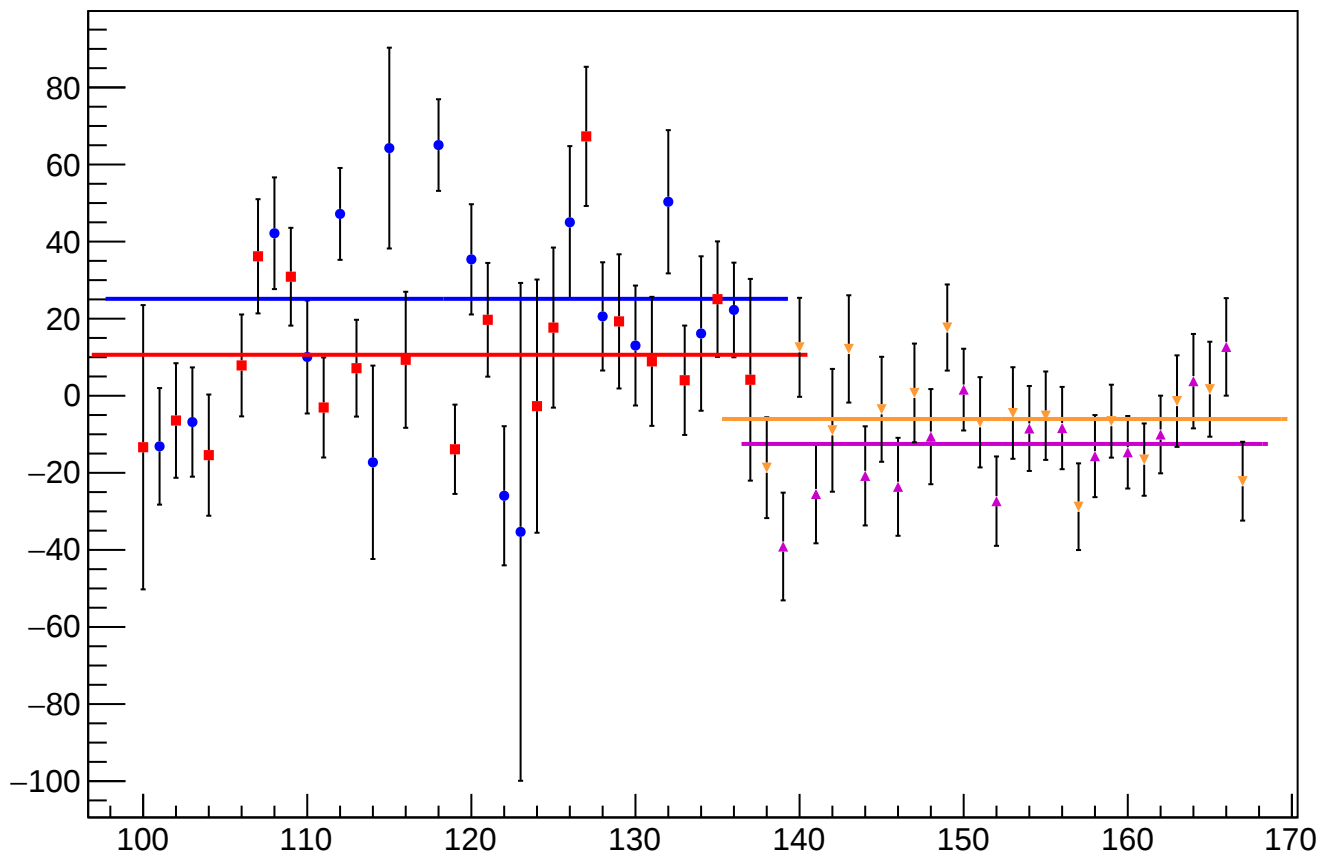
Right: 1226.229 $\pm$ 0.233 χ^2 /NDF: 64970.2/35

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

Out: 1165.460 $\pm$ 0.193 χ^2 /NDF:1419913.8/34

All: 1178.215 $\pm$ 0.141 χ^2 /NDF: 2651562.7/65

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149 $\pm$ 3.837 χ^2/NDF : 46.9/16

Left Out: -6.025 $\pm$ 2.934 χ^2/NDF : 18.0/15

Right Out: 10.634 $\pm$ 3.595 χ^2/NDF : 27.7/18

Left In: -12.505 $\pm$ 3.068 χ^2/NDF : 15.5/13

Left: -9.121 $\pm$ 2.121 χ^2/NDF : 35.8/29

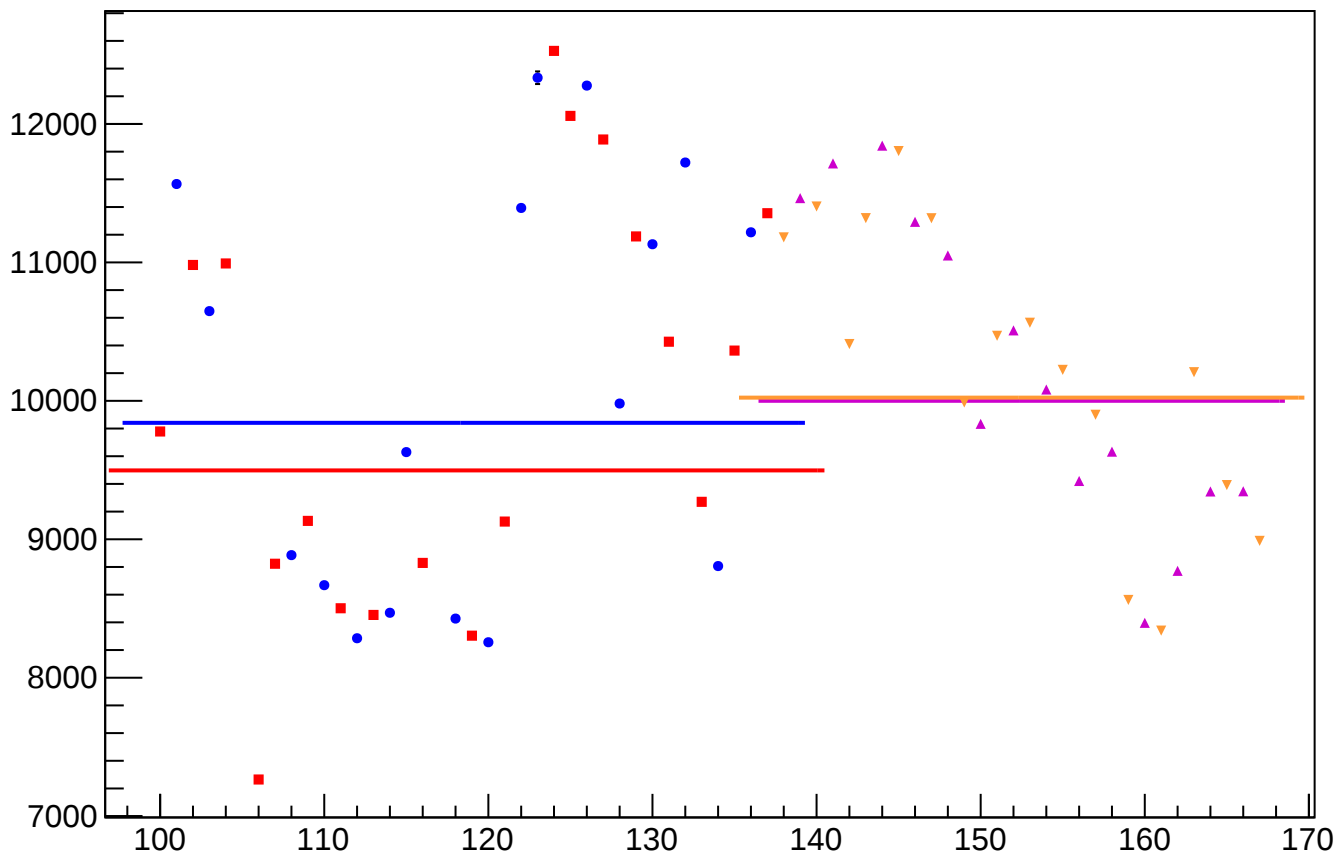
Right: 17.418 $\pm$ 2.623 χ^2/NDF : 82.3/35

In: 2.179 $\pm$ 2.396 χ^2/NDF : 121.2/30

Out: 0.636 $\pm$ 2.273 χ^2/NDF : 58.6/34

All: 1.367 $\pm$ 1.649 χ^2/NDF : 180.0/65

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10023.193 ± 2.075 $\chi^2/\text{NDF}: 258212.3/15$

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: 10012.282 ± 1.499 $\chi^2/\text{NDF}: 503963.0/29$

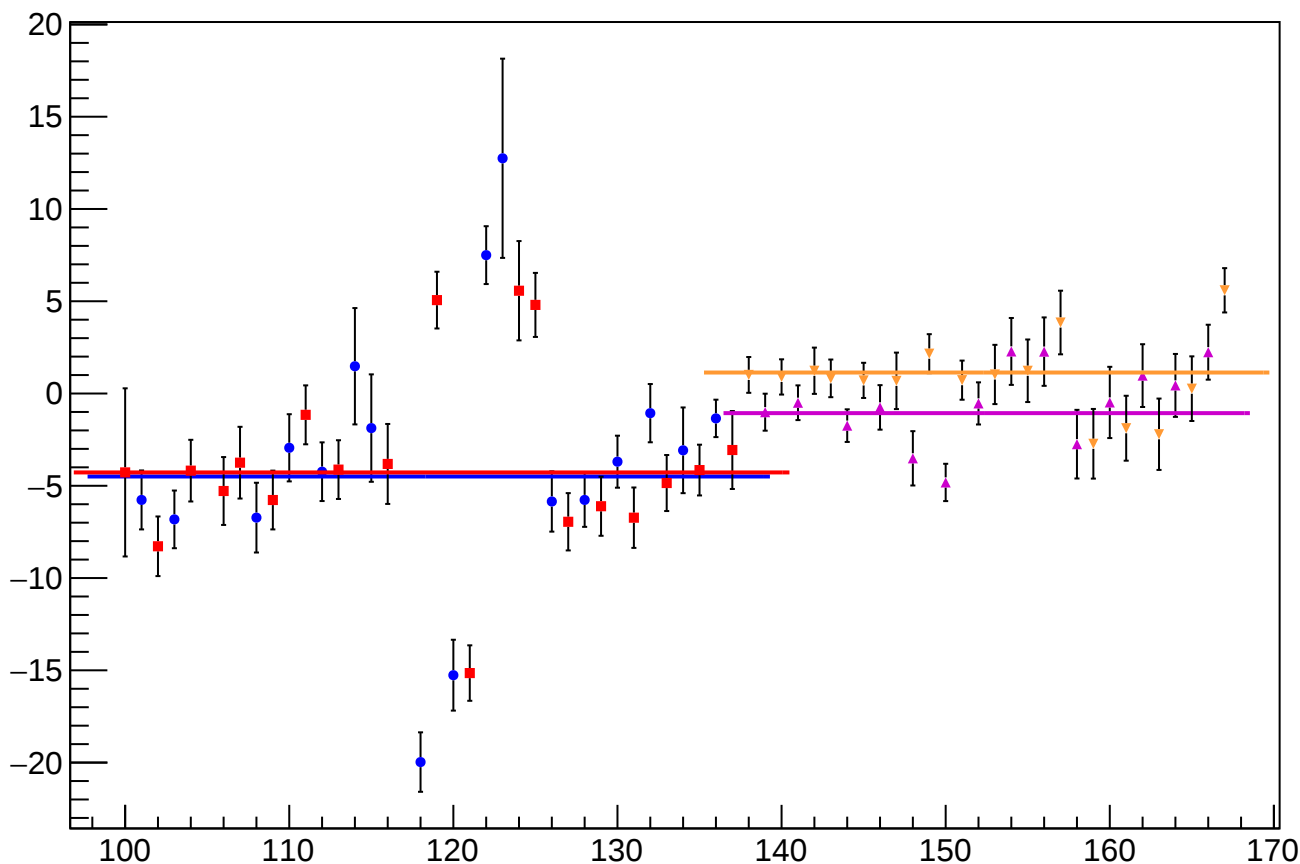
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

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

Out: 9812.989 ± 1.607 $\chi^2/\text{NDF}: 560584.8/34$

All: 9872.327 ± 1.166 $\chi^2/\text{NDF}: 1071317.2/65$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 1.137 ± 0.316 χ^2/NDF : 28.2/15

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: 0.122 ± 0.232 χ^2/NDF : 83.1/29

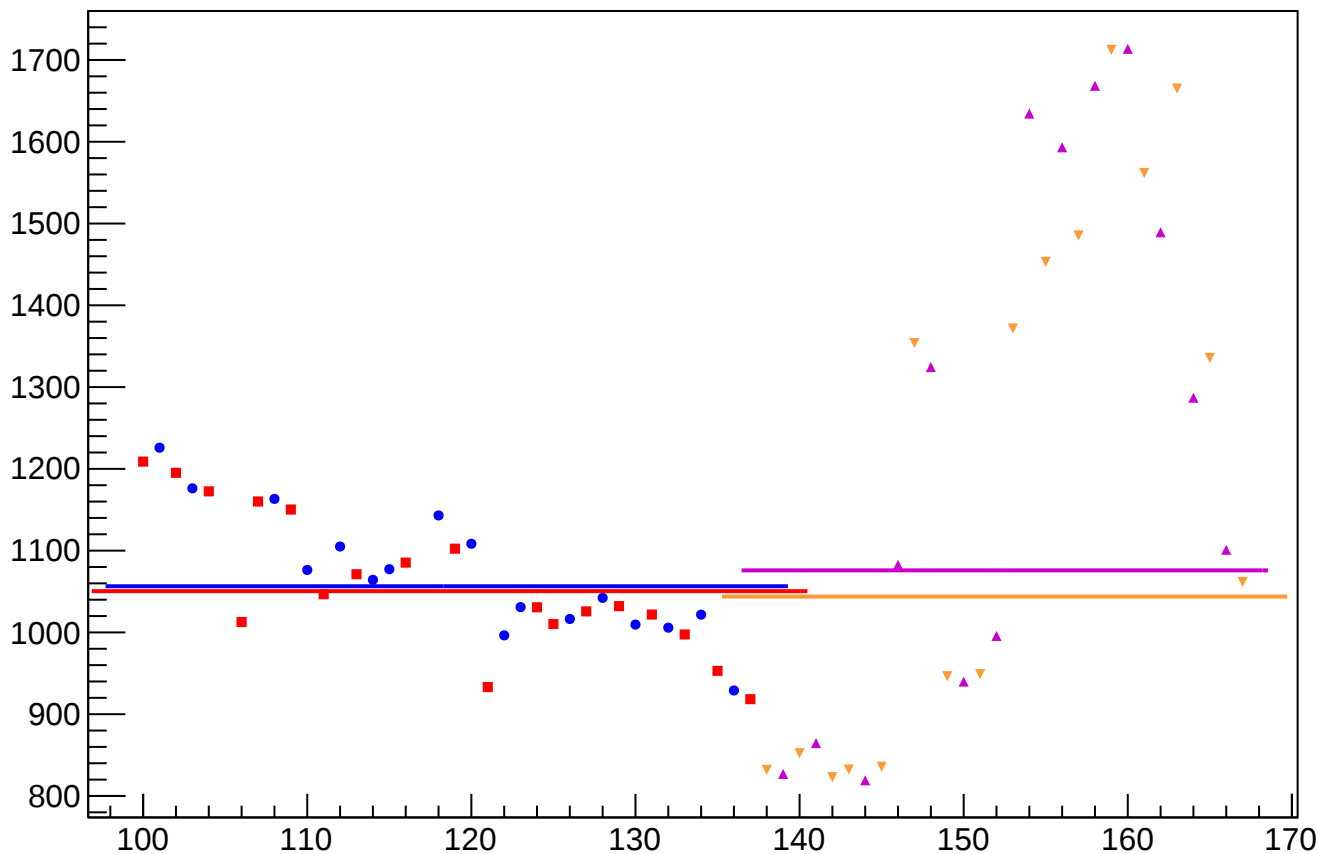
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -2.475 ± 0.262 χ^2/NDF : 292.5/30

Out: -0.980 ± 0.246 χ^2/NDF : 291.4/34

All: -1.683 ± 0.179 χ^2/NDF : 601.3/65

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1043.796 $\pm$ 0.223 χ^2 /NDF:1552357.4/15

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: 1058.594 $\pm$ 0.164 χ^2 /NDF: 2974129.0/29

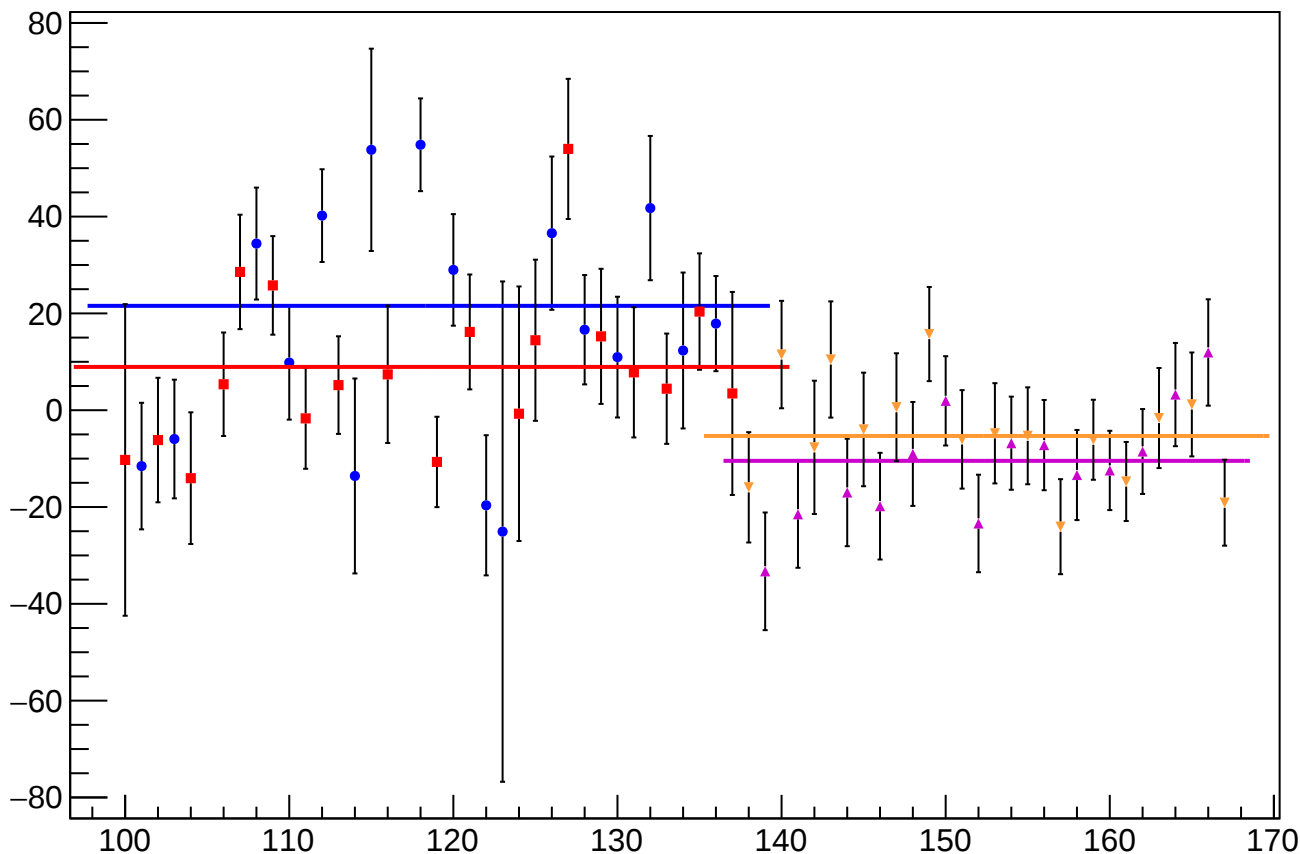
Right: 1053.333 $\pm$ 0.200 χ^2 /NDF: 173392.8/35

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

Out: 1046.396 $\pm$ 0.174 χ^2 /NDF:1635100.7/34

All: 1056.486 $\pm$ 0.127 χ^2 /NDF: 3147934.7/65

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561 $\pm$ 3.110 χ^2 /NDF: 48.4/16

Left Out: -5.320 $\pm$ 2.551 χ^2 /NDF:17.8/15

Right Out: 8.943 $\pm$ 2.912 χ^2 /NDF: 27.4/18

Left In: -10.460 $\pm$ 2.669 χ^2 /NDF:15.3/13

Left: -7.775 $\pm$ 1.844 χ^2 /NDF: 35.1/29

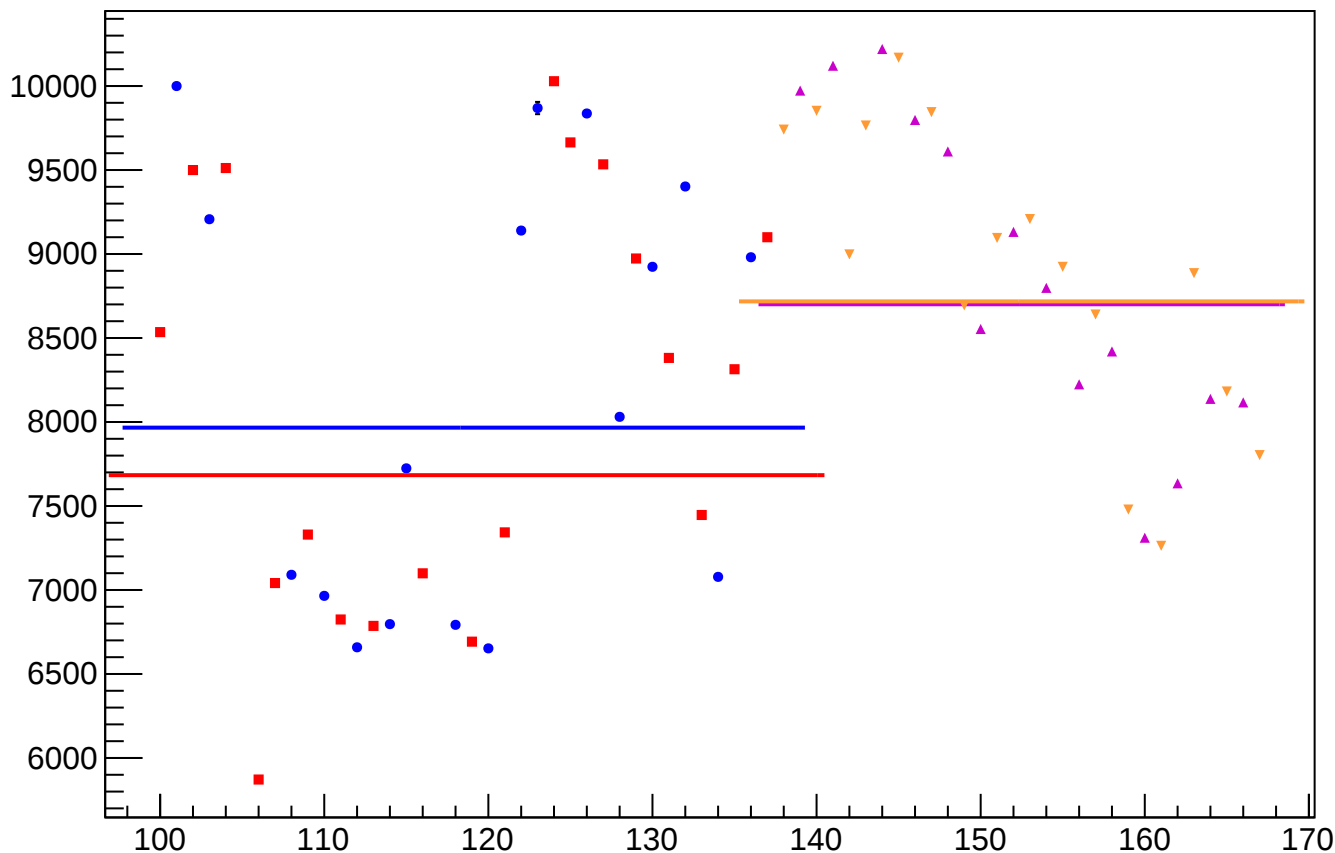
Right: 14.837 $\pm$ 2.126 χ^2 /NDF: 84.6/35

In: 3.117 $\pm$ 2.025 χ^2 /NDF:124.8/30

Out: 0.874 $\pm$ 1.919 χ^2 /NDF:58.8/34

All: 1.935 $\pm$ 1.393 χ^2 /NDF: 184.2/65

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.405 +/- 2.199 χ^2/NDF : 296611.1/16

Left Out: 8717.914 +/- 1.804 χ^2/NDF : 247487.9/15

Right Out: 7683.479 +/- 2.059 χ^2/NDF : 315033.7/18

Left In: 8700.766 +/- 1.887 χ^2/NDF : 236346.1/13

Left: 8709.725 +/- 1.304 χ^2/NDF : 483877.2/29

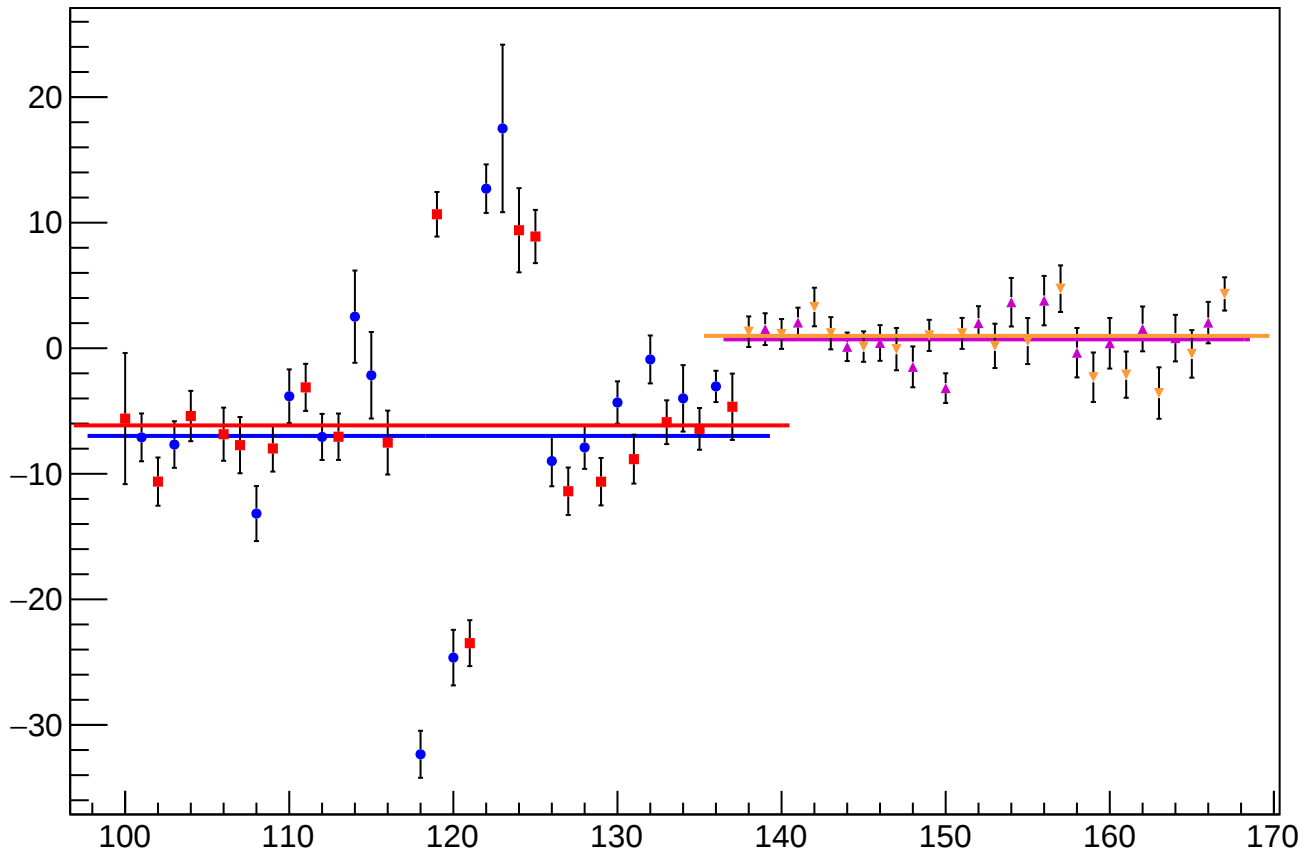
Right: 7815.627 +/- 1.503 χ^2/NDF : 620463.8/35

In: 8389.401 +/- 1.432 χ^2/NDF : 597175.2/30

Out: 8268.670 +/- 1.357 χ^2/NDF : 705308.5/34

All: 8325.783 +/- 0.985 χ^2/NDF : 1306228.6/65

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.984 ± 0.486 $\chi^2/\text{NDF}: 408.5/16$

Left Out: 0.985 ± 0.370 $\chi^2/\text{NDF}: 25.1/15$

Right Out: -6.145 ± 0.467 $\chi^2/\text{NDF}: 277.5/18$

Left In: 0.705 ± 0.400 $\chi^2/\text{NDF}: 21.6/13$

Left: 0.856 ± 0.272 $\chi^2/\text{NDF}: 46.9/29$

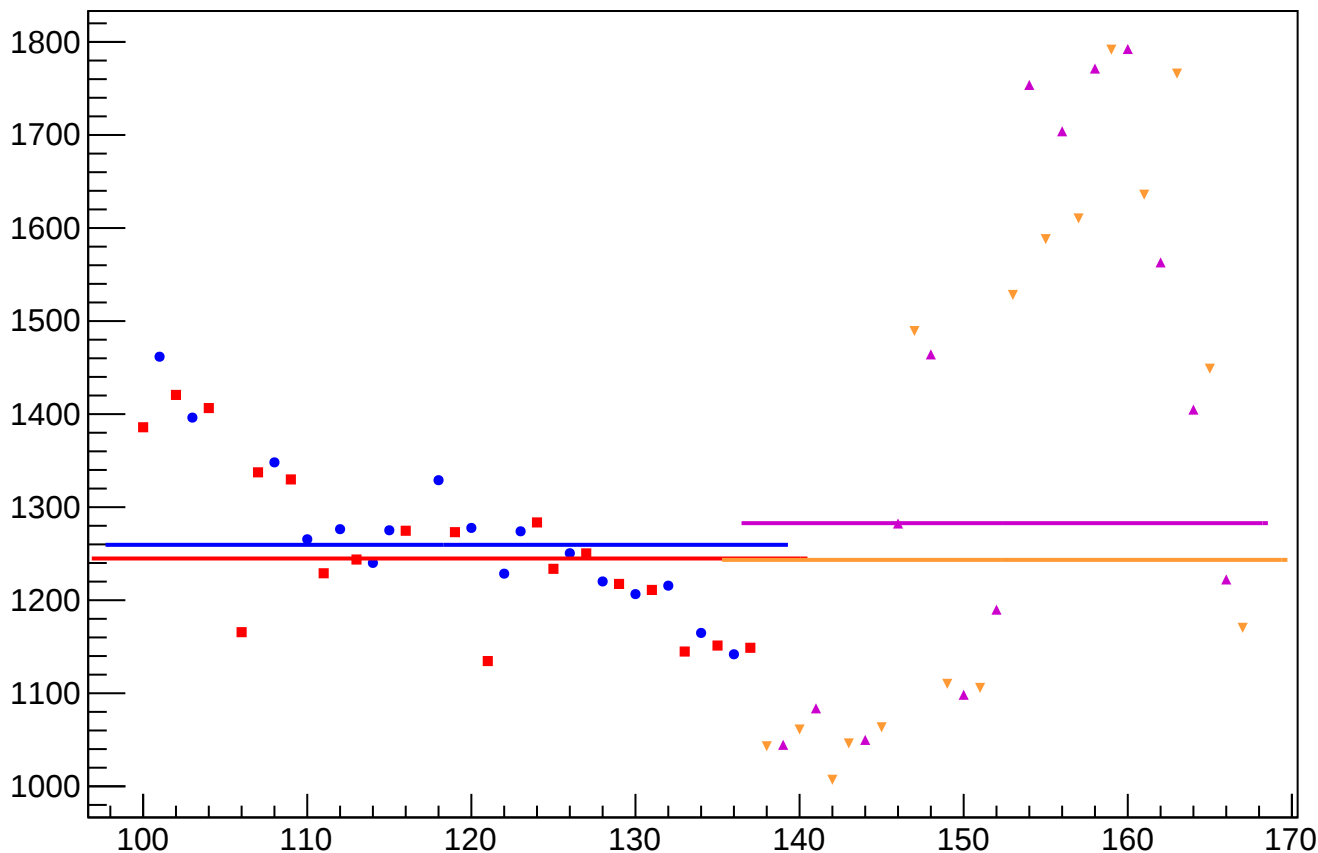
Right: -6.547 ± 0.337 $\chi^2/\text{NDF}: 687.6/35$

In: -2.395 ± 0.309 $\chi^2/\text{NDF}: 579.3/30$

Out: -1.768 ± 0.290 $\chi^2/\text{NDF}: 445.9/34$

All: -2.062 ± 0.211 $\chi^2/\text{NDF}: 1027.4/65$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.531 ± 0.344 $\chi^2/\text{NDF}: 64844.4/16$

Left Out: 1243.366 ± 0.262 $\chi^2/\text{NDF}: 936392.1/15$

Right Out: 1244.837 ± 0.330 $\chi^2/\text{NDF}: 66826.0/18$

Left In: 1282.824 ± 0.283 $\chi^2/\text{NDF}: 817053.1/13$

Left: 1261.581 ± 0.192 $\chi^2/\text{NDF}: 1763940.2/29$

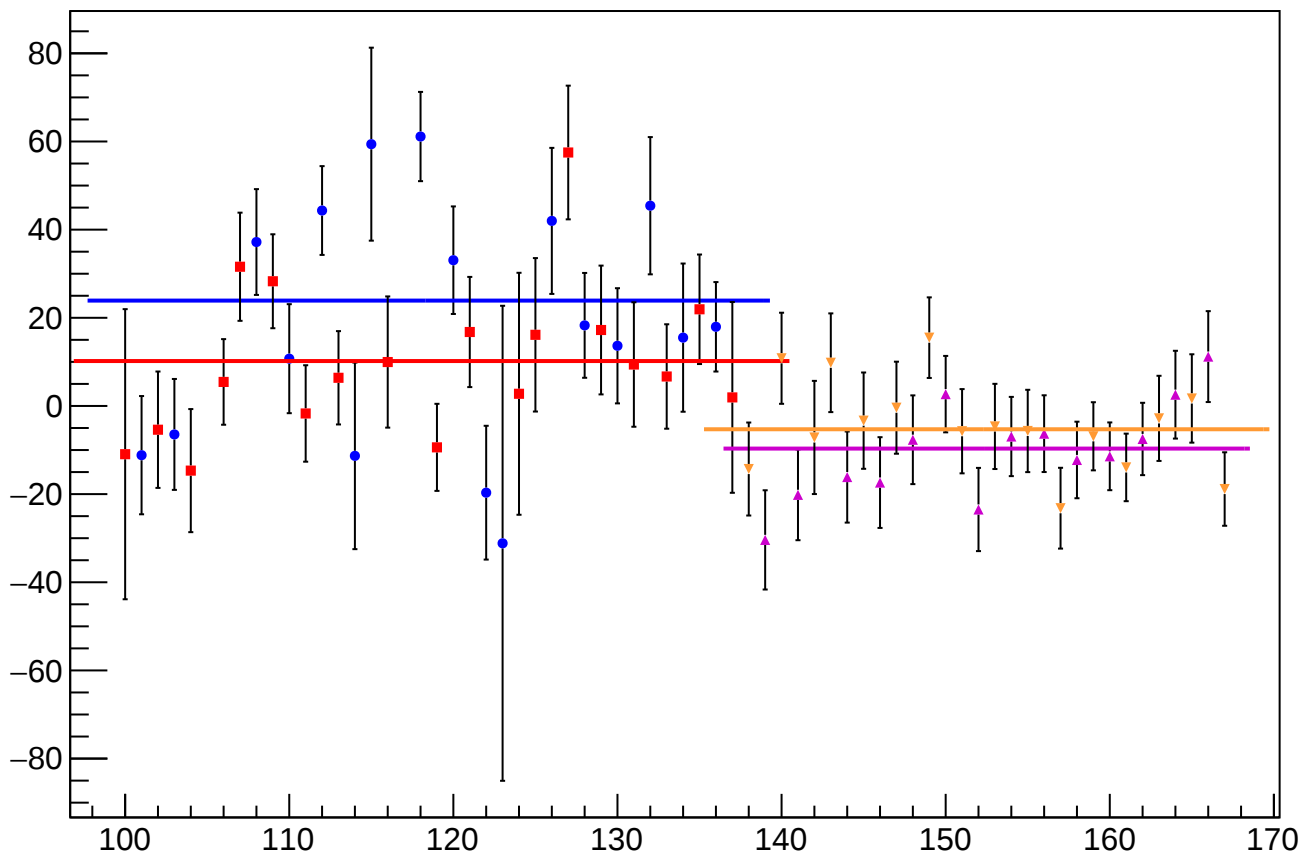
Right: 1251.883 ± 0.238 $\chi^2/\text{NDF}: 132621.3/35$

In: 1273.431 ± 0.218 $\chi^2/\text{NDF}: 884637.1/30$

Out: 1243.934 ± 0.205 $\chi^2/\text{NDF}: 1003230.3/34$

All: 1257.759 ± 0.149 $\chi^2/\text{NDF}: 1897567.1/65$

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

Left Out: -5.287 ± 2.385 $\chi^2/\text{NDF}: 18.8/15$

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: -7.380 ± 1.724 $\chi^2/\text{NDF}: 36.0/29$

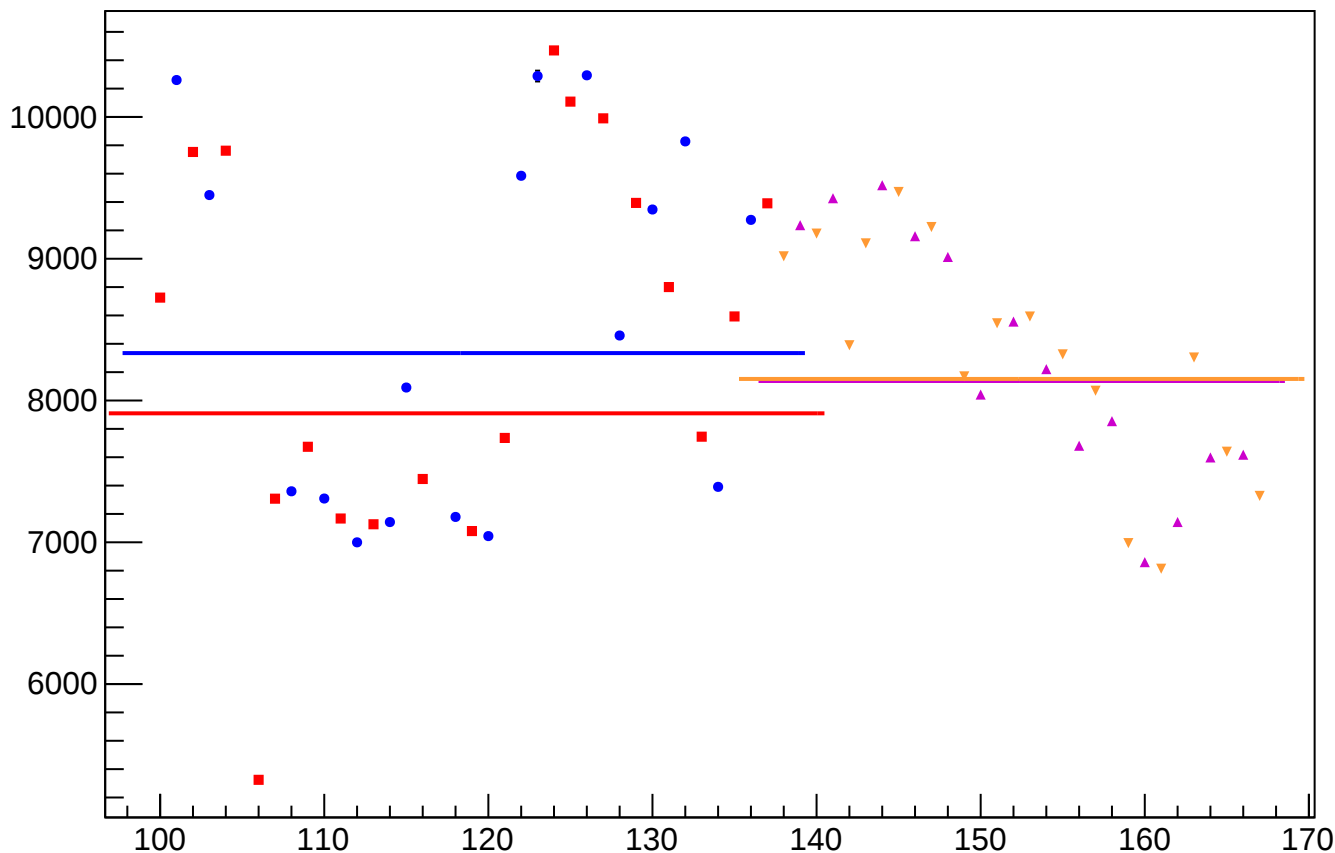
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

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

Out: 0.693 ± 1.868 $\chi^2/\text{NDF}: 63.0/34$

All: 1.675 ± 1.359 $\chi^2/\text{NDF}: 198.8/65$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8152.161 +/- 1.687 χ^2/NDF : 238250.6/15

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

Left In: 8137.658 +/- 1.764 χ^2/NDF : 228521.9/13

Left: 8145.236 +/- 1.219 χ^2/NDF : 466807.9/29

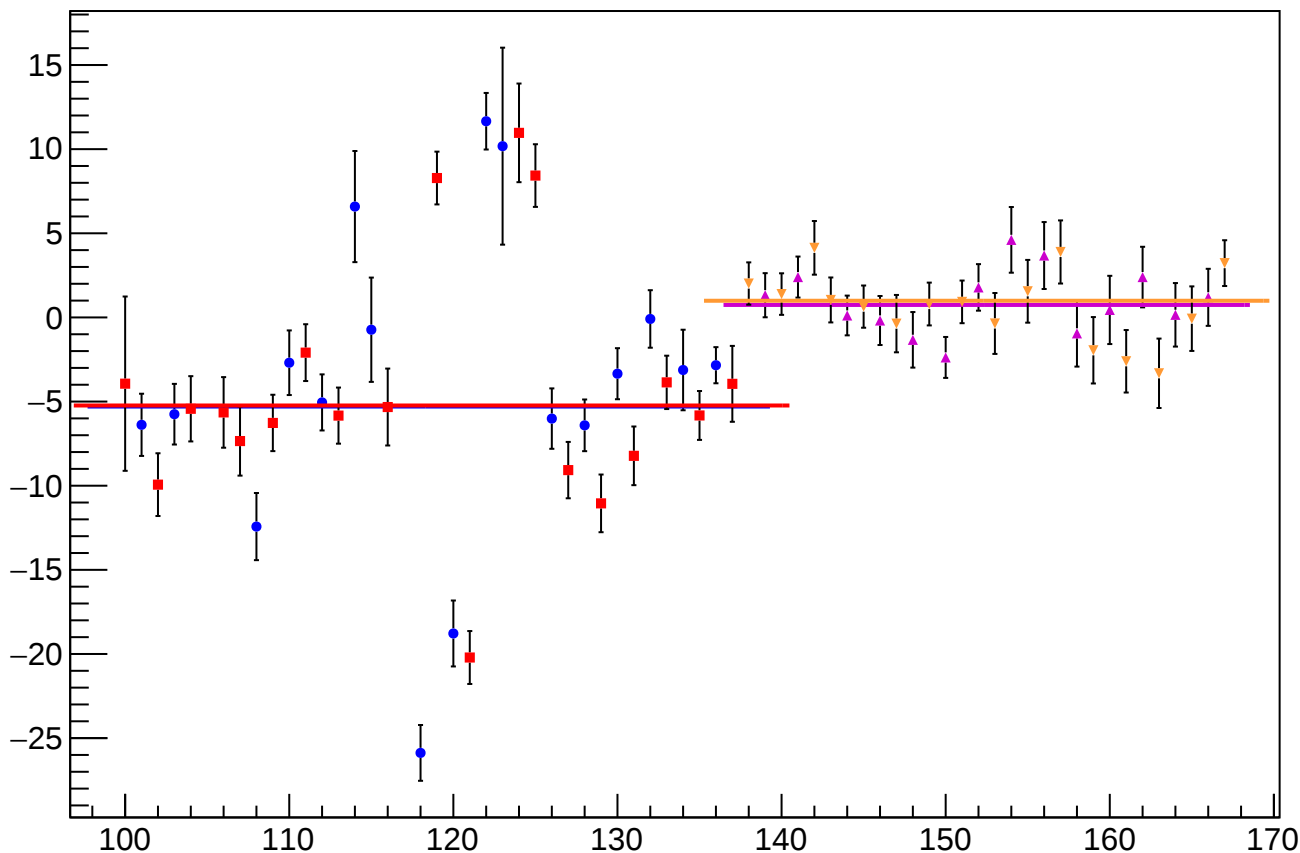
Right: 8105.450 +/- 1.560 χ^2/NDF : 681543.4/35

In: 8210.643 +/- 1.400 χ^2/NDF : 505439.7/30

Out: 8058.440 +/- 1.321 χ^2/NDF : 637061.3/34

All: 8130.156 +/- 0.961 χ^2/NDF : 1148755.0/65

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 0.991 ± 0.380 χ^2/NDF : 21.8/15

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: 0.876 ± 0.278 χ^2/NDF : 41.3/29

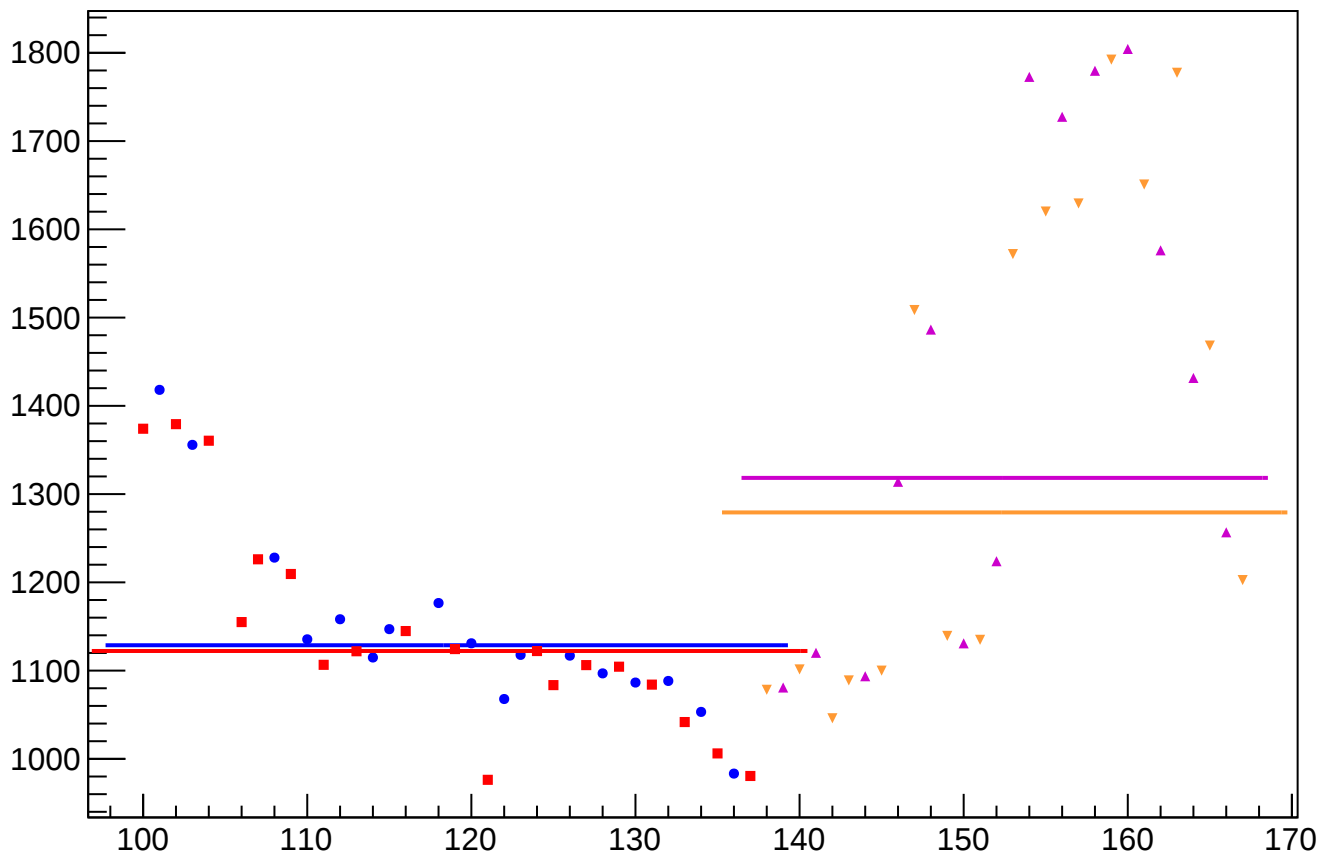
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -2.082 ± 0.299 χ^2/NDF : 479.1/30

Out: -1.796 ± 0.282 χ^2/NDF : 424.0/34

All: -1.931 ± 0.205 χ^2/NDF : 903.5/65

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1279.236 +/- 0.269 χ^2/NDF : 849888.3/15

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: 1297.323 +/- 0.197 χ^2/NDF : 1596105.6/29

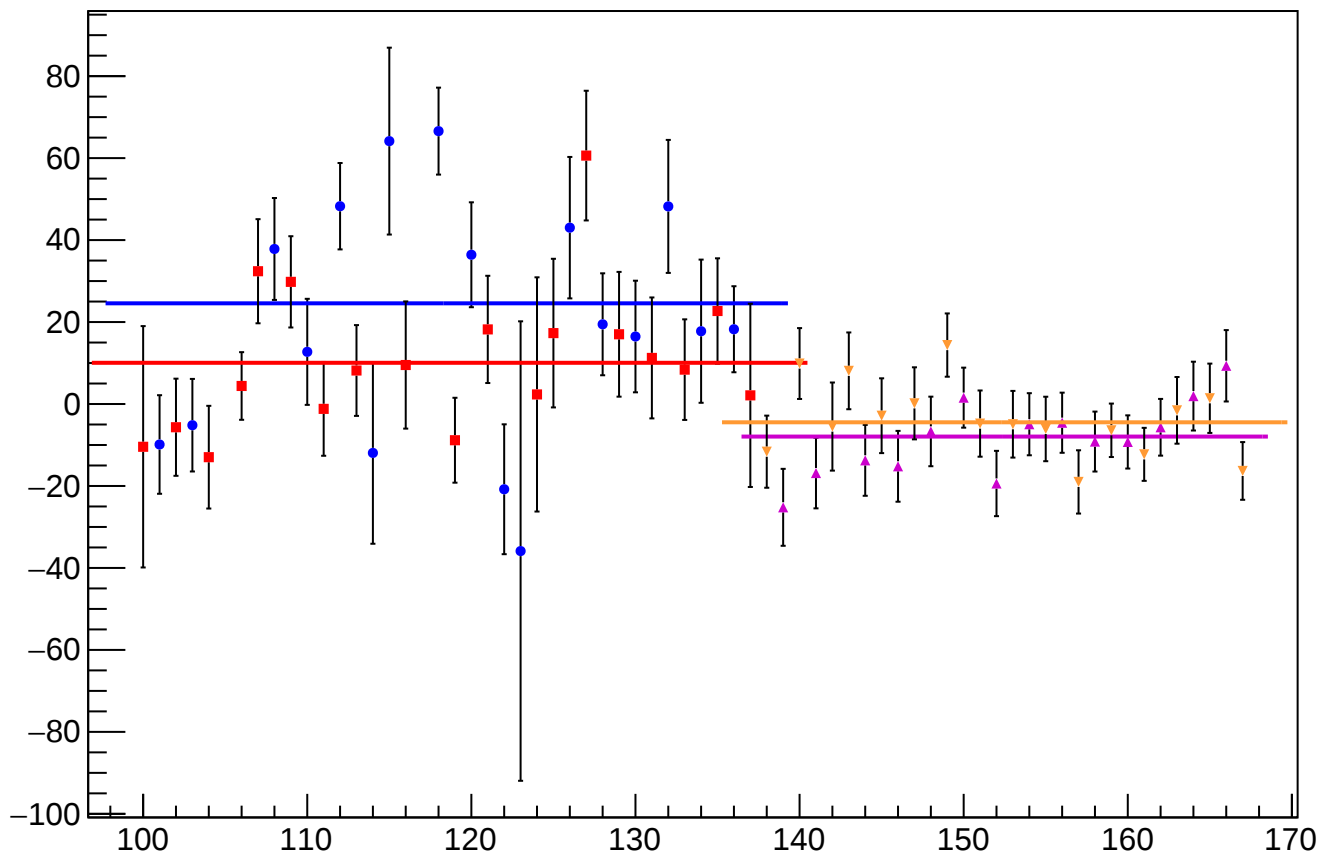
Right: 1125.374 +/- 0.215 χ^2/NDF : 262927.9/35

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

Out: 1208.926 +/- 0.200 χ^2/NDF : 1132588.8/34

All: 1218.696 +/- 0.145 χ^2/NDF : 2207722.4/65

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

Left Out: -4.462 ± 2.008 $\chi^2/\text{NDF}: 20.1/15$

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: -6.124 ± 1.451 $\chi^2/\text{NDF}: 36.8/29$

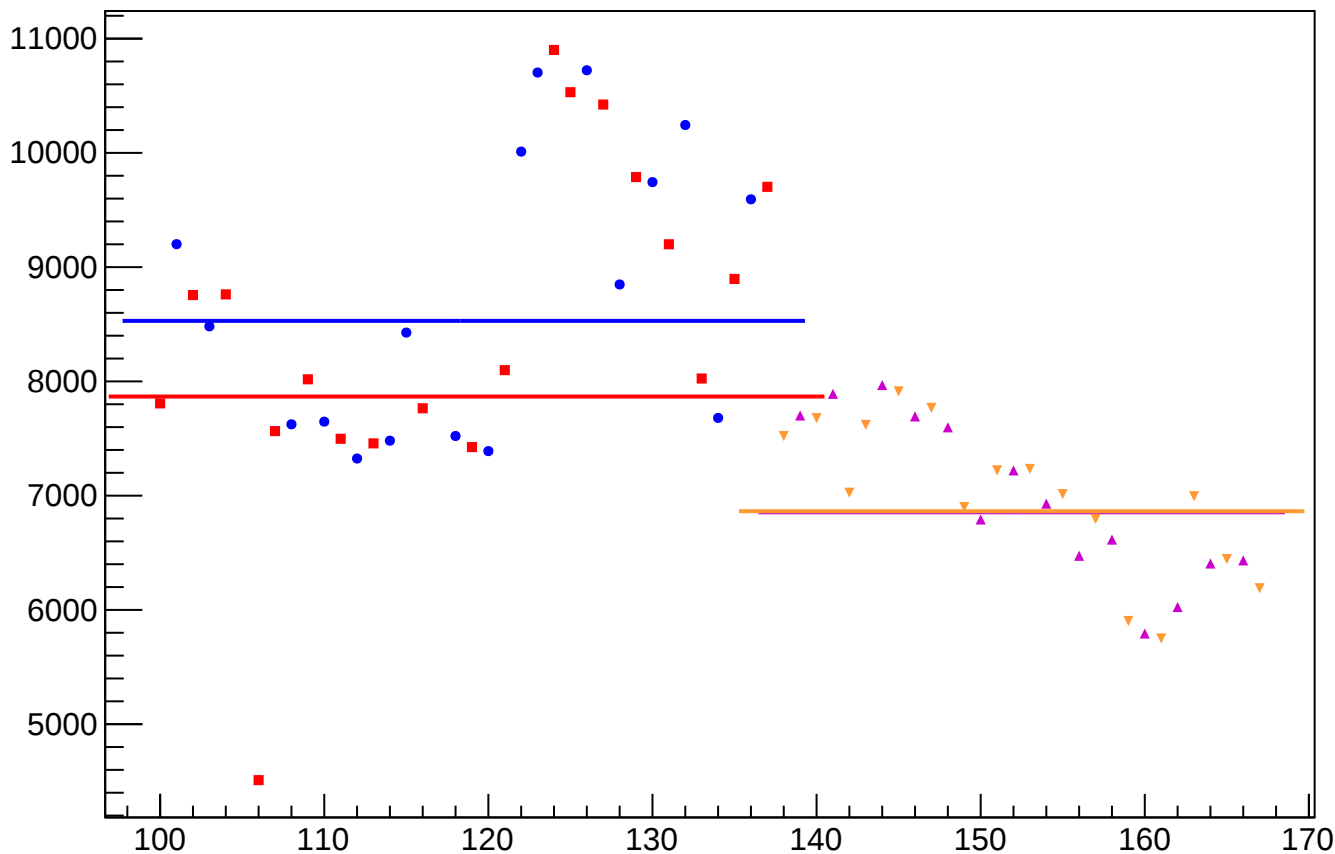
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

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

Out: 0.012 ± 1.670 $\chi^2/\text{NDF}: 65.0/34$

All: 0.645 ± 1.216 $\chi^2/\text{NDF}: 207.2/65$

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6863.797 $\pm$ 1.420 χ^2/NDF : 225461.0/15

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: 6859.377 $\pm$ 1.026 χ^2/NDF : 442697.2/29

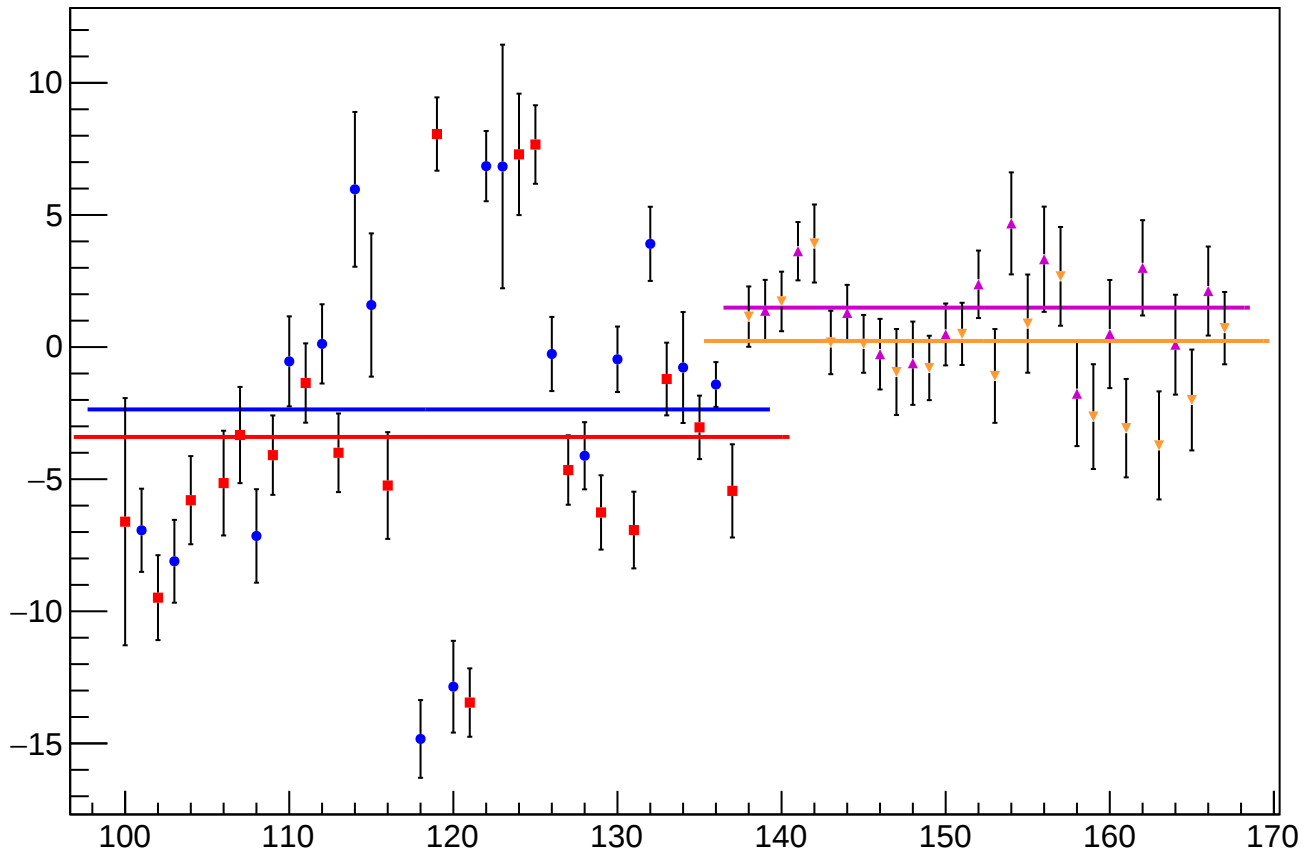
Right: 8166.253 $\pm$ 1.576 χ^2/NDF : 807907.7/35

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

Out: 7173.168 $\pm$ 1.181 χ^2/NDF : 935415.4/34

All: 7248.634 $\pm$ 0.860 χ^2/NDF : 1733553.8/65

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

Left Out: 0.231 ± 0.358 χ^2/NDF : 22.8/15

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: 0.814 ± 0.263 χ^2/NDF : 45.0/29

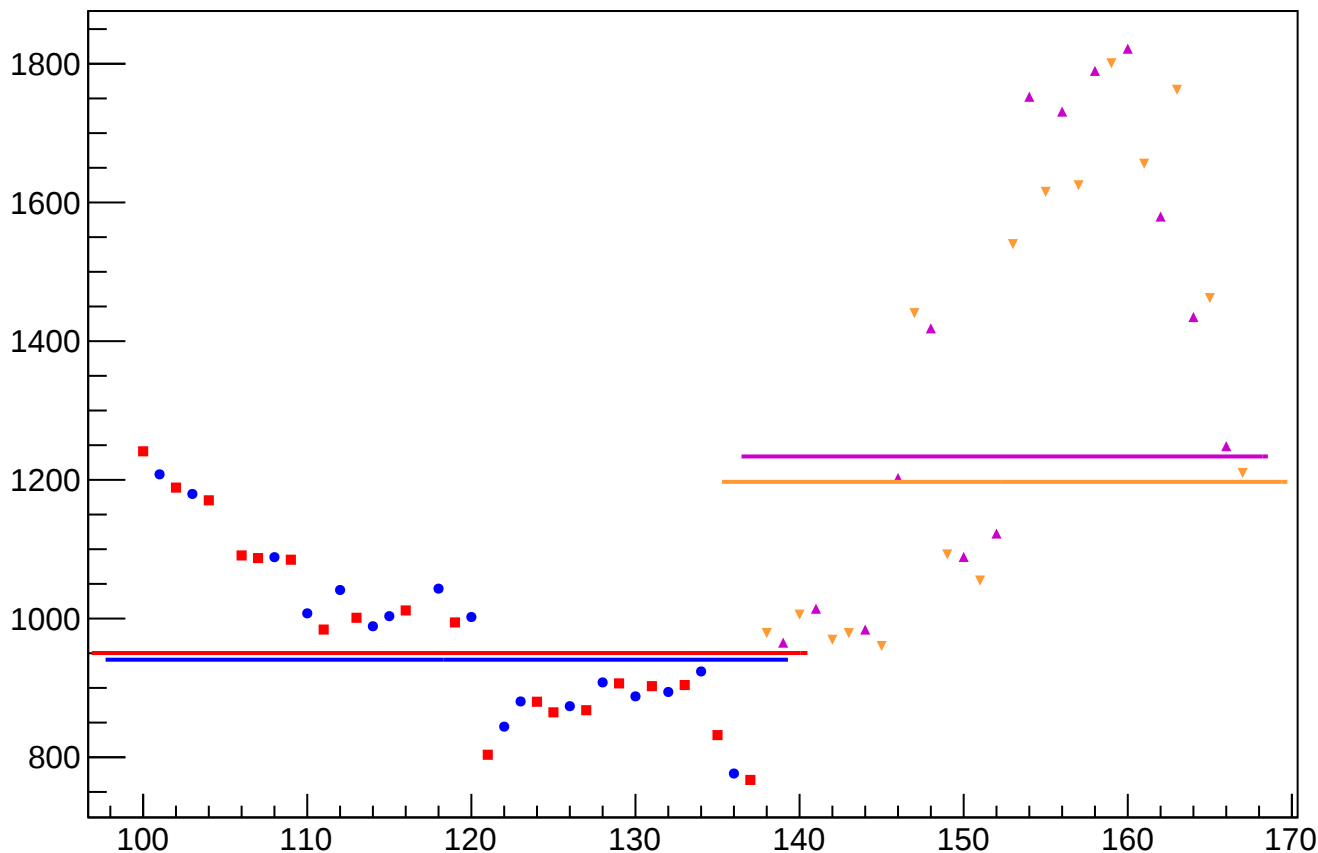
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.541 ± 0.266 χ^2/NDF : 300.9/30

Out: -1.585 ± 0.253 χ^2/NDF : 315.6/34

All: -1.087 ± 0.183 χ^2/NDF : 624.6/65

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1197.152 $\pm$ 0.253 χ^2 /NDF:1205090.5/15

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: 1214.060 $\pm$ 0.186 χ^2 /NDF: 2271494.2/29

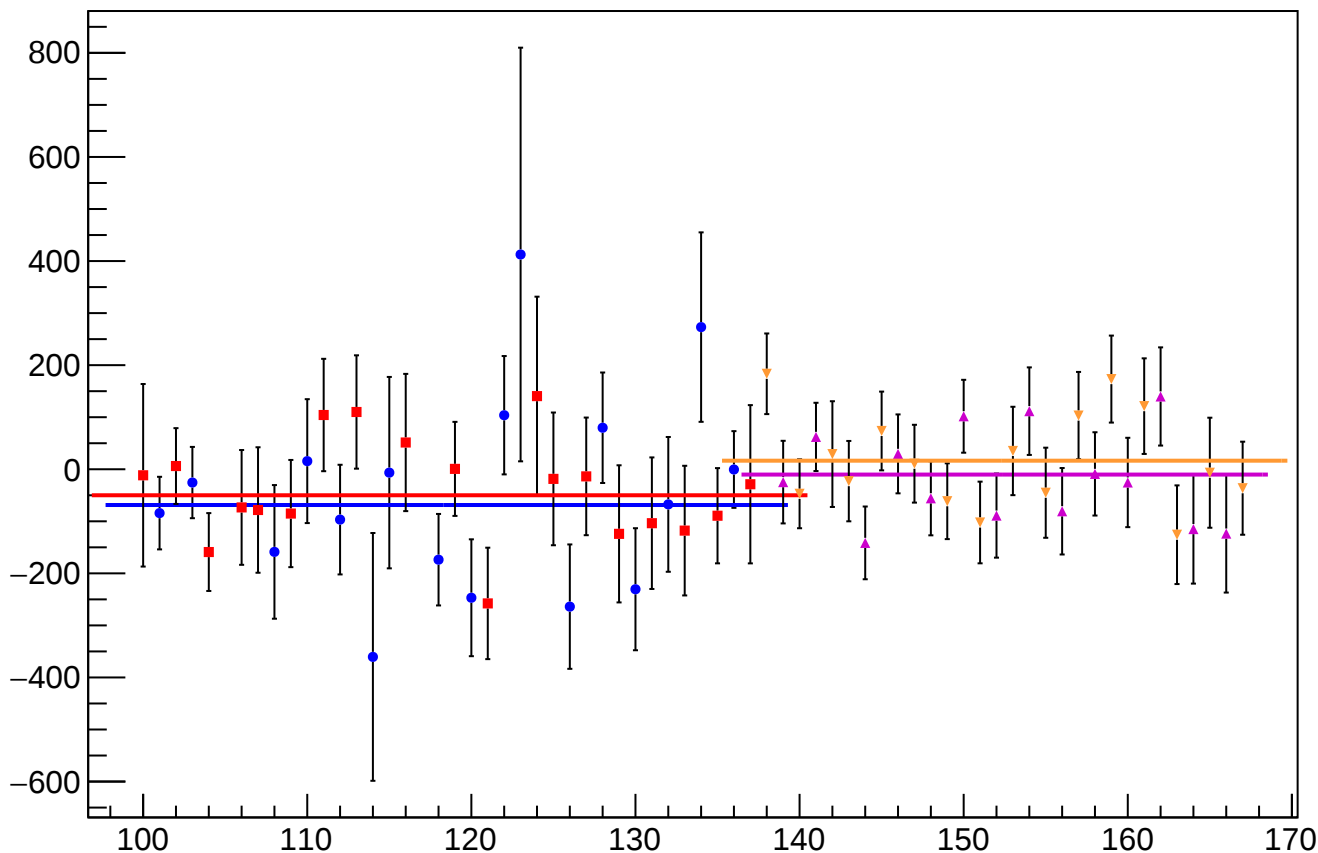
Right: 945.597 $\pm$ 0.181 χ^2 /NDF: 463155.1/35

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

Out: 1073.746 $\pm$ 0.179 χ^2 /NDF:1900686.2/34

All: 1076.279 $\pm$ 0.130 χ^2 /NDF: 3806618.6/65

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 $\pm$ 25.946 χ^2/NDF : 21.8/16

Left Out: 16.459 $\pm$ 20.556 χ^2/NDF : 18.9/15

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: 3.657 $\pm$ 14.823 χ^2/NDF : 36.1/29

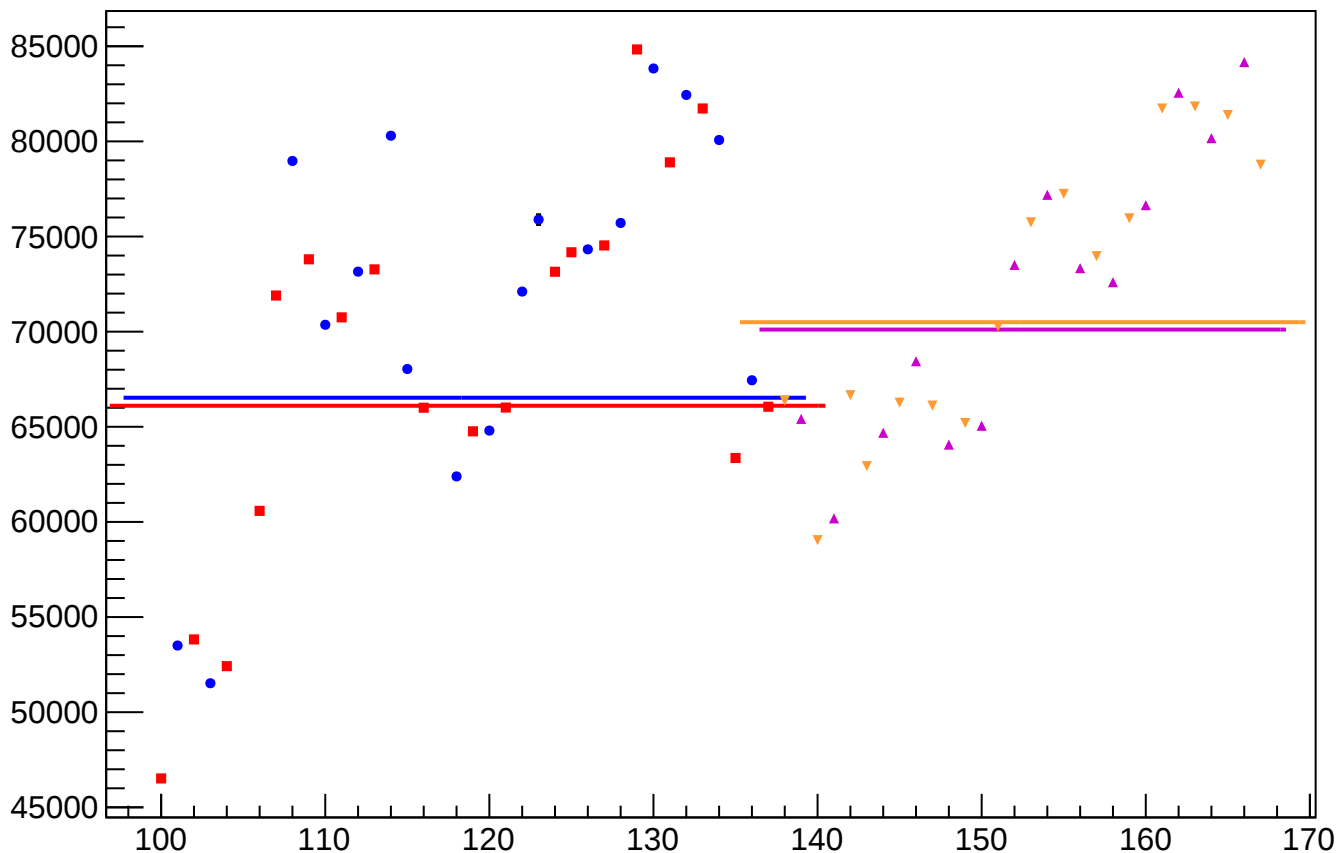
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

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

Out: -10.307 $\pm$ 15.883 χ^2/NDF : 37.2/34

All: -21.640 $\pm$ 11.445 χ^2/NDF : 79.4/65

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251+/-18.347 χ^2/NDF : 320887.2/16

Left Out: 70497.762+/-14.536 χ^2/NDF : 240017.4/15

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

Left In: 70108.942+/-15.129 χ^2/NDF : 209057.6/13

Left: 70311.129+/-10.482 χ^2/NDF : 449418.5/29

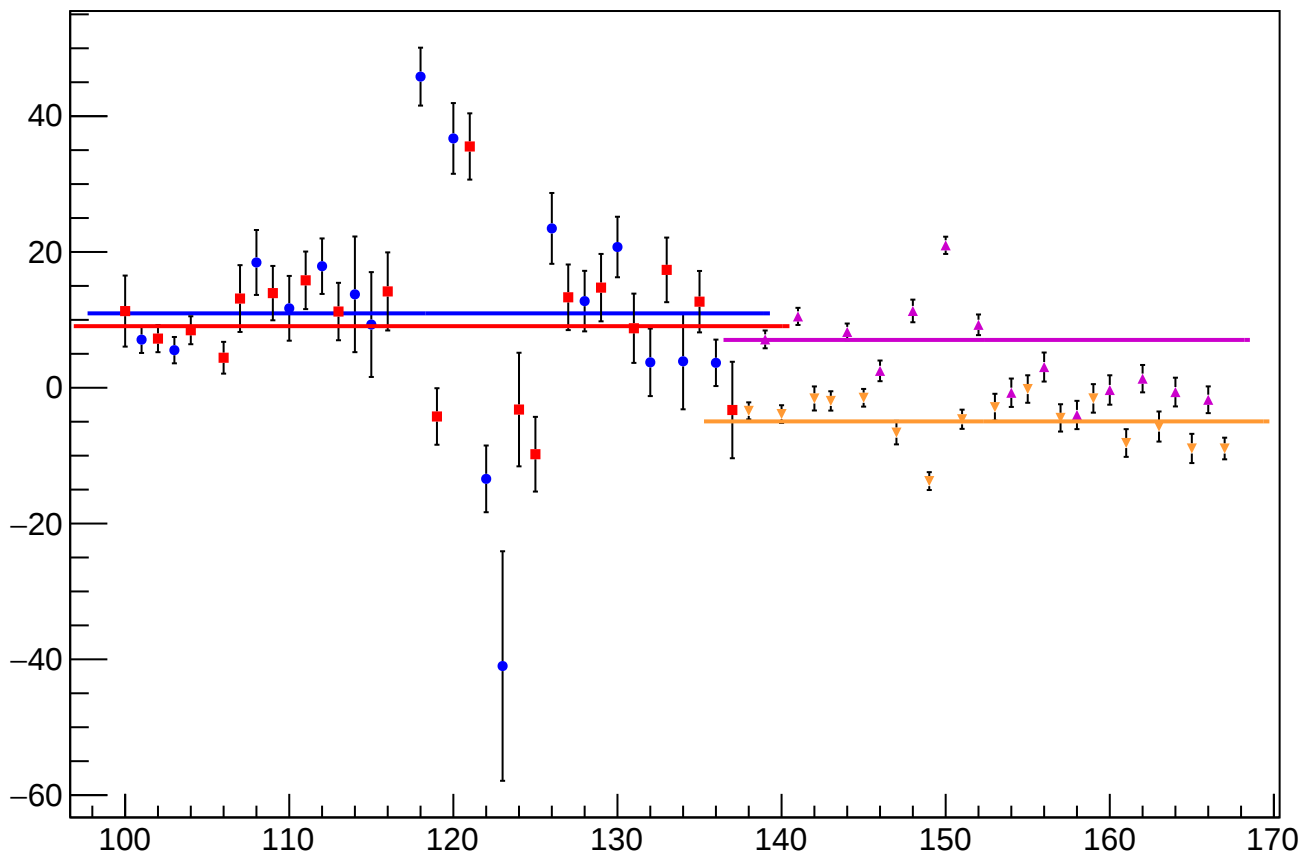
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

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

Out: 68727.815+/-11.231 χ^2/NDF : 575294.5/34

All: 68694.825+/-8.093 χ^2/NDF : 1127943.1/6

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 ± 0.943 $\chi^2/\text{NDF}: 160.9/16$

Left Out: -4.955 ± 0.406 $\chi^2/\text{NDF}: 84.7/15$

Right Out: 9.072 ± 0.866 $\chi^2/\text{NDF}: 73.1/18$

Left In: 7.045 ± 0.433 $\chi^2/\text{NDF}: 244.6/13$

Left: 0.657 ± 0.296 $\chi^2/\text{NDF}: 737.7/29$

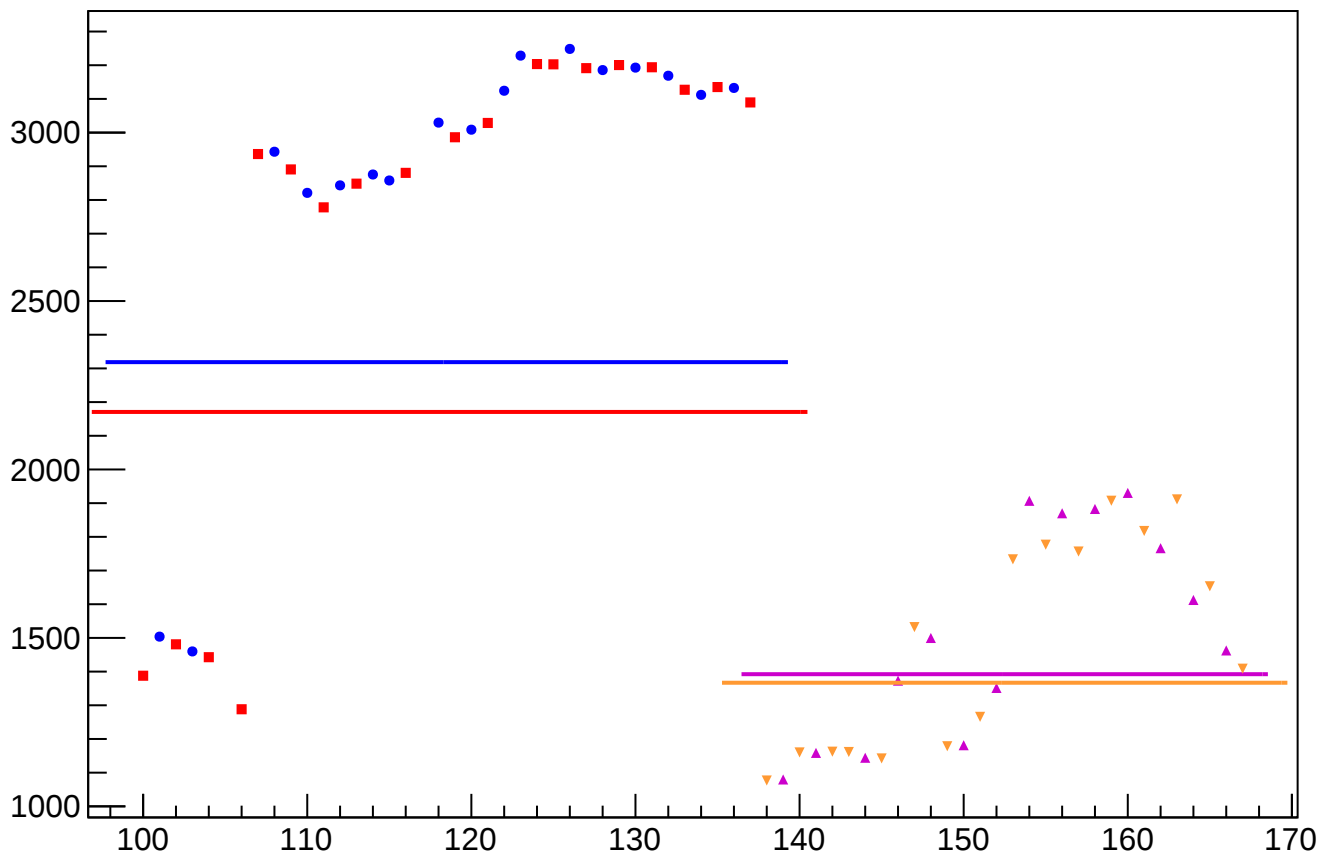
Right: 9.935 ± 0.638 $\chi^2/\text{NDF}: 236.2/35$

In: 7.727 ± 0.394 $\chi^2/\text{NDF}: 419.7/30$

Out: -2.428 ± 0.368 $\chi^2/\text{NDF}: 372.7/34$

All: 2.302 ± 0.269 $\chi^2/\text{NDF}: 1147.8/65$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624 $\pm$ 0.667 χ^2/NDF : 1408300.4/16

Left Out: 1366.947 $\pm$ 0.287 χ^2/NDF : 967536.6/15

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: 1378.807 $\pm$ 0.209 χ^2/NDF : 1847730.3/29

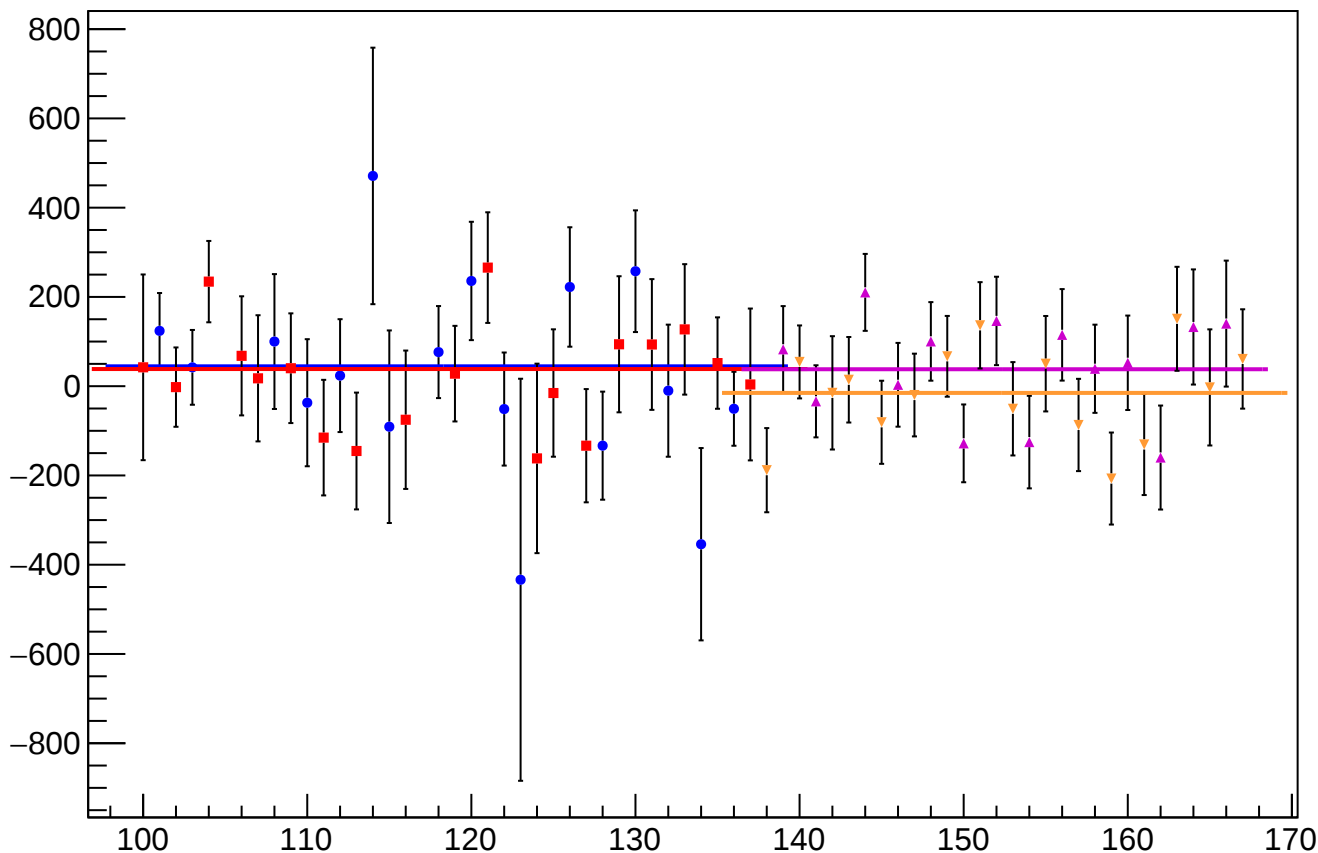
Right: 2238.439 $\pm$ 0.451 χ^2/NDF : 3188639.4/35

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

Out: 1511.734 $\pm$ 0.260 χ^2/NDF : 4132916.8/34

All: 1531.285 $\pm$ 0.190 χ^2/NDF : 8022901.0/65

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484 $\pm$ 30.432 χ^2 /NDF: 19.1/16

Left Out: -15.065 $\pm$ 25.386 χ^2 /NDF:15.9/15

Right Out: 38.425 $\pm$ 29.435 χ^2 /NDF: 15.7/18

Left In: 37.964 $\pm$ 26.402 χ^2 /NDF:17.5/13

Left: 10.410 $\pm$ 18.299 χ^2 /NDF: 35.5/29

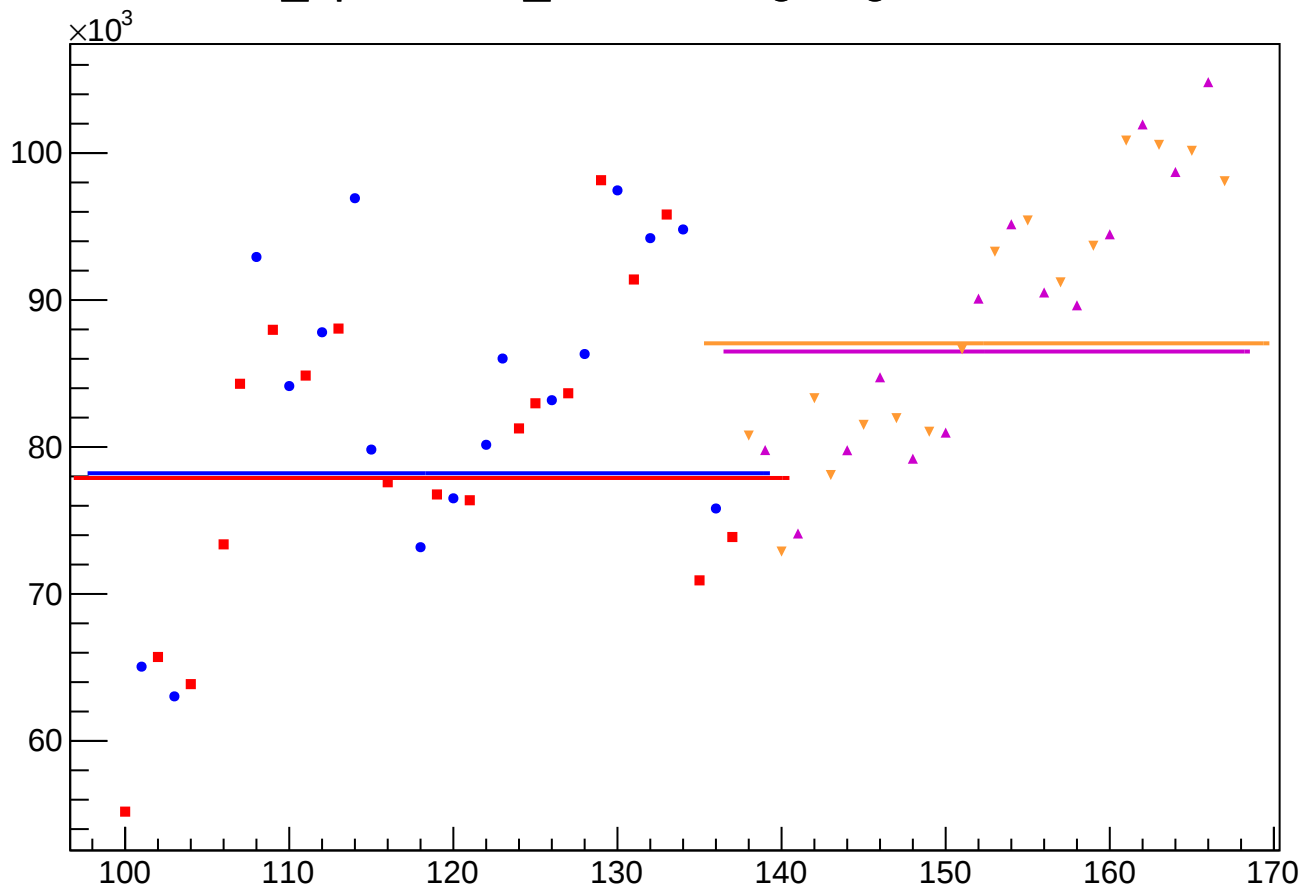
Right: 41.353 $\pm$ 21.157 χ^2 /NDF: 34.9/35

In: 40.764 $\pm$ 19.943 χ^2 /NDF:36.6/30

Out: 7.751 $\pm$ 19.224 χ^2 /NDF:33.6/34

All: 23.652 $\pm$ 13.841 χ^2 /NDF: 71.6/65

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025 ± 21.519 $\chi^2/\text{NDF}: 251056.7/16$

Left Out: 87054.575 ± 17.951 $\chi^2/\text{NDF}: 237446.0/15$

Right Out: 77891.938 ± 20.814 $\chi^2/\text{NDF}: 246970.2/18$

Left In: 86496.582 ± 18.669 $\chi^2/\text{NDF}: 211096.8/13$

Left: 86786.516 ± 12.940 $\chi^2/\text{NDF}: 449007.0/29$

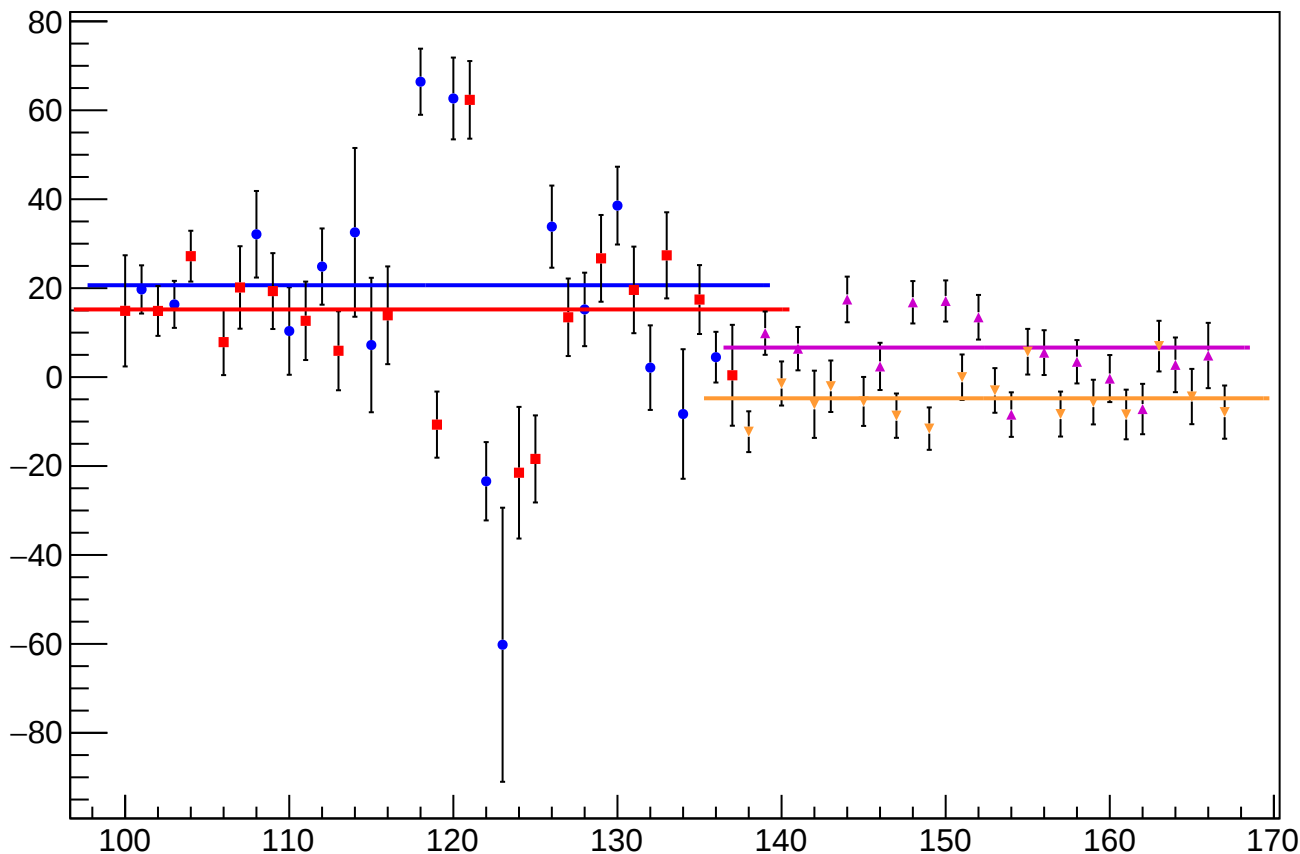
Right: 78047.137 ± 14.960 $\chi^2/\text{NDF}: 498141.9/35$

In: 82939.245 ± 14.102 $\chi^2/\text{NDF}: 546702.1/30$

Out: 83146.292 ± 13.594 $\chi^2/\text{NDF}: 595548.8/34$

All: 83046.565 ± 9.787 $\chi^2/\text{NDF}: 1142362.6/68$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



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

Left Out: -4.768 ± 1.332 $\chi^2/\text{NDF}: 16.7/15$

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: 0.711 ± 0.960 $\chi^2/\text{NDF}: 86.7/29$

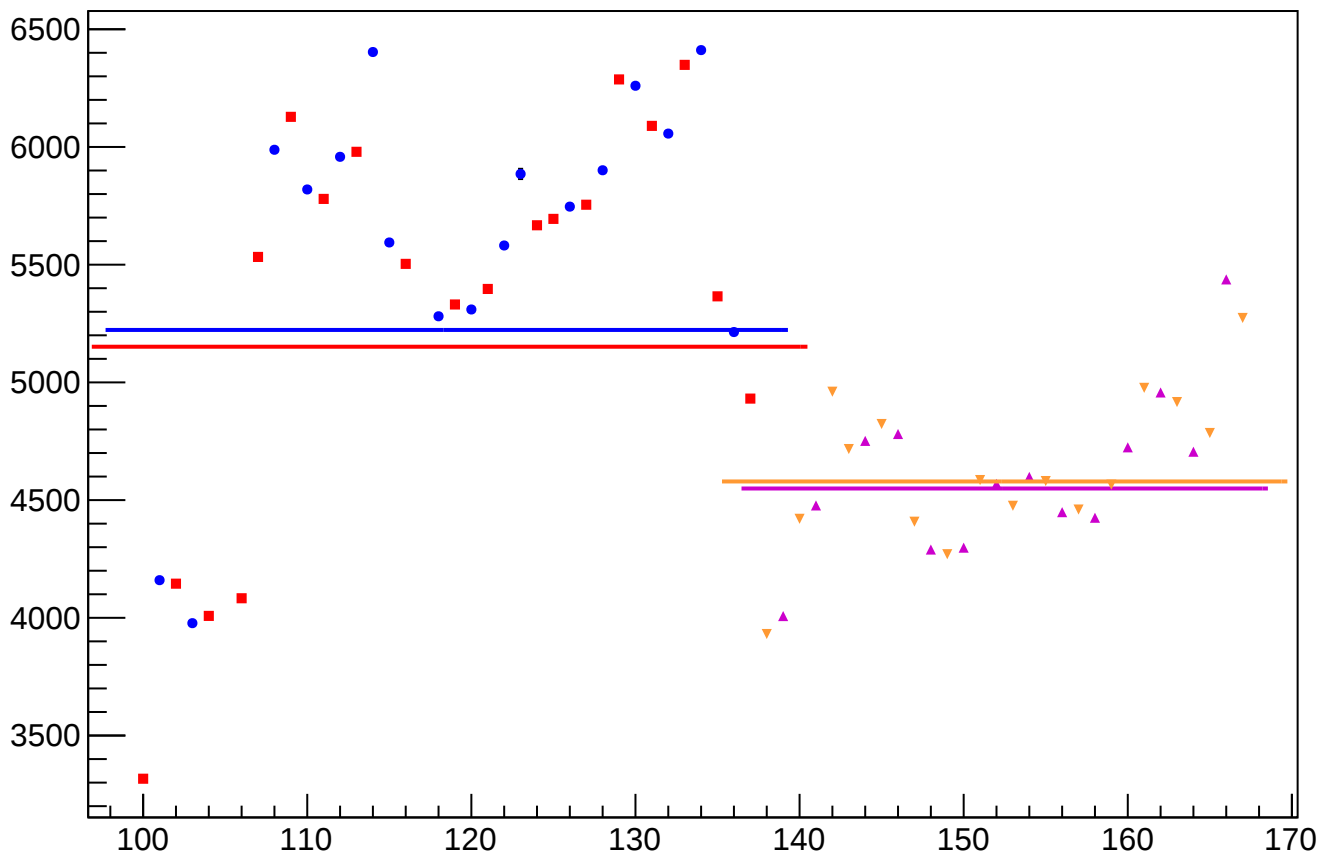
Right: 17.826 ± 1.410 $\chi^2/\text{NDF}: 192.8/35$

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

Out: 1.566 ± 1.100 $\chi^2/\text{NDF}: 159.4/34$

All: 6.131 ± 0.793 $\chi^2/\text{NDF}: 380.1/65$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767+/-1.440 χ^2/NDF : 312497.9/16

Left Out: 4579.198+/-0.942 χ^2/NDF : 111111.7/15

Right Out: 5151.532+/-1.382 χ^2/NDF : 387685.6/18

Left In: 4549.283+/-0.979 χ^2/NDF : 89342.8/13

Left: 4564.830+/-0.679 χ^2/NDF : 200939.4/29

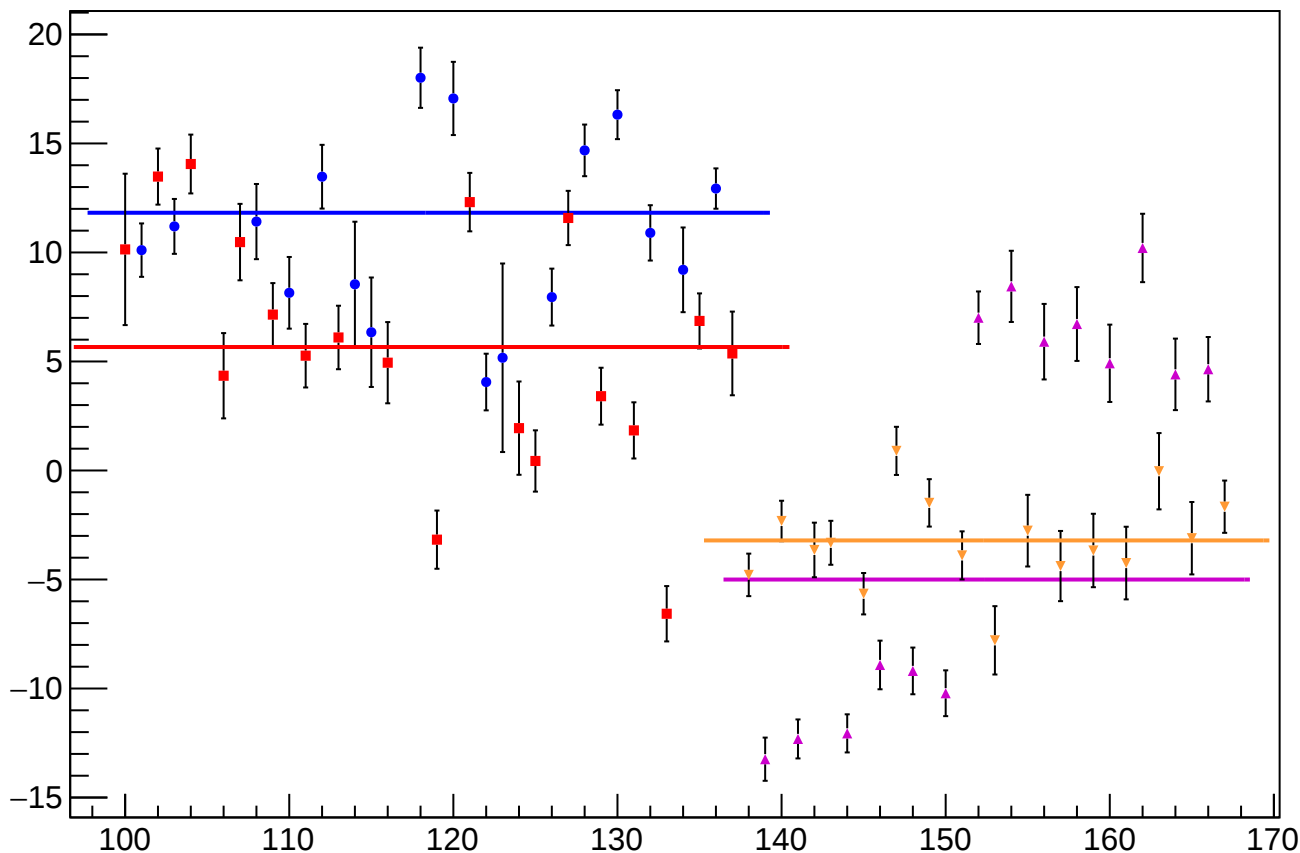
Right: 5185.701+/-0.997 χ^2/NDF : 701457.6/35

In: 4762.381+/-0.810 χ^2/NDF : 551456.0/30

Out: 4760.599+/-0.778 χ^2/NDF : 615913.7/34

All: 4761.455+/-0.561 χ^2/NDF : 1167372.2/65

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.821 ± 0.344 $\chi^2/\text{NDF}: 117.0/16$

Left Out: -3.208 ± 0.306 $\chi^2/\text{NDF}: 41.6/15$

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: -4.050 ± 0.223 $\chi^2/\text{NDF}: 766.8/29$

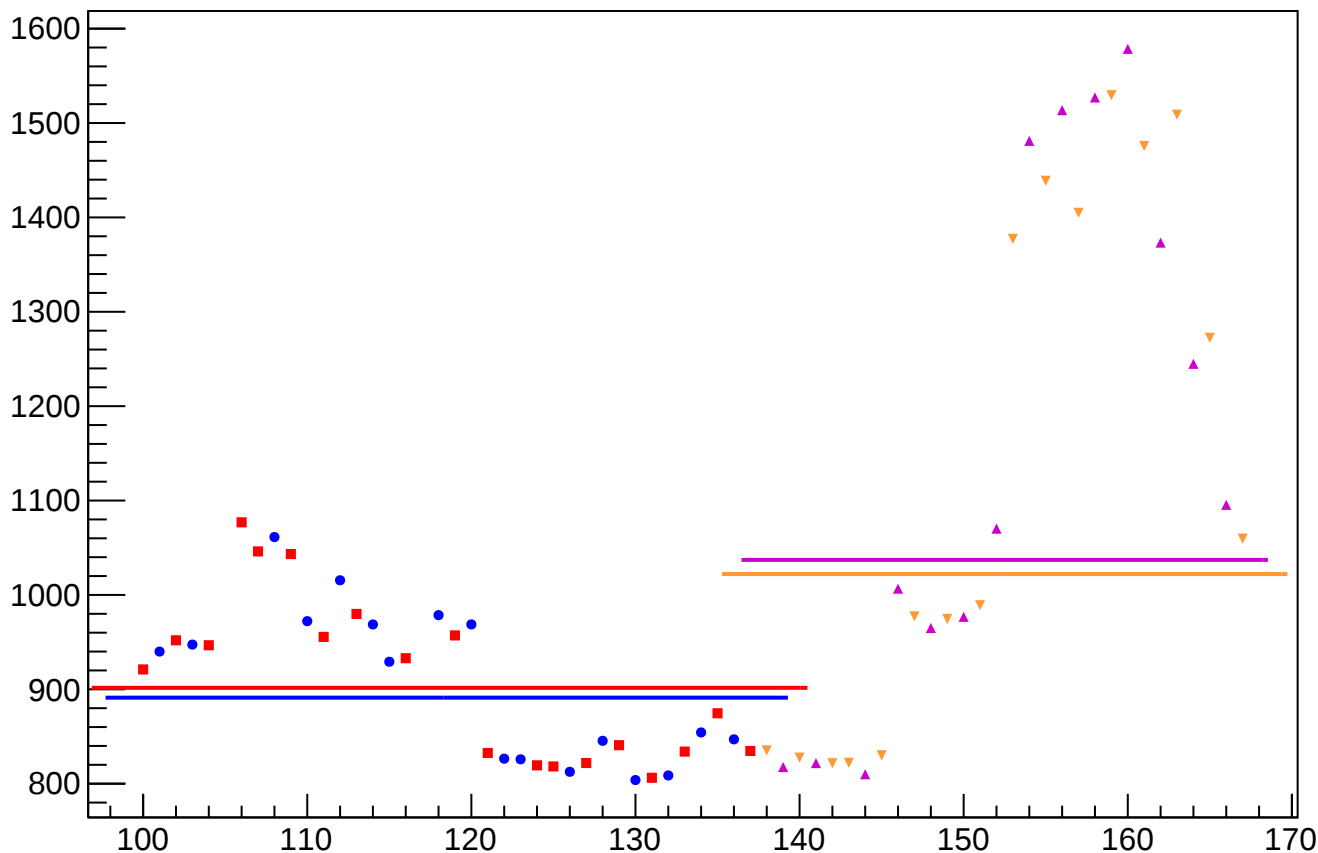
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

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

Out: 0.778 ± 0.227 $\chi^2/\text{NDF}: 720.0/34$

All: 1.806 ± 0.164 $\chi^2/\text{NDF}: 2850.2/65$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149 $\pm$ 0.244 χ^2 /NDF: 101659.1/16

Left Out: 1022.120 $\pm$ 0.216 χ^2 /NDF:1258364.1/15

Right Out: 901.588 $\pm$ 0.239 χ^2 /NDF: 114590.8/18

Left In: 1037.108 $\pm$ 0.230 χ^2 /NDF:1147944.8/13

Left: 1029.155 $\pm$ 0.158 χ^2 /NDF: 2408564.1/29

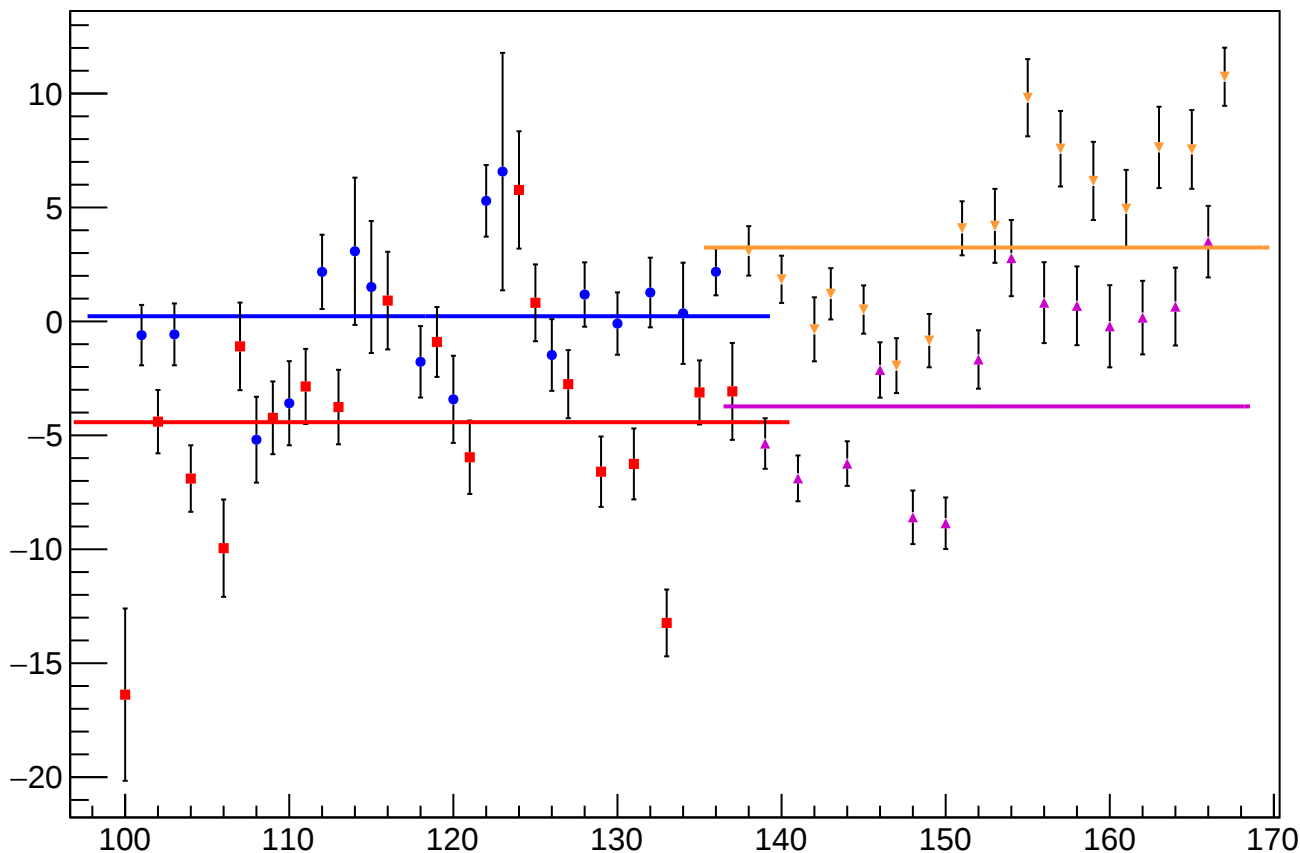
Right: 896.461 $\pm$ 0.171 χ^2 /NDF: 217184.3/35

In: 968.348 $\pm$ 0.167 χ^2 /NDF:1439492.1/30

Out: 967.956 $\pm$ 0.160 χ^2 /NDF:1512611.7/34

All: 968.144 $\pm$ 0.116 χ^2 /NDF: 2952106.7/65

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 $\chi^2/\text{NDF}: 38.5/16$

Left Out: 3.243 ± 0.331 $\chi^2/\text{NDF}: 122.4/15$

Right Out: -4.423 ± 0.387 $\chi^2/\text{NDF}: 103.3/18$

Left In: -3.730 ± 0.352 $\chi^2/\text{NDF}: 126.3/13$

Left: -0.031 ± 0.241 $\chi^2/\text{NDF}: 457.4/29$

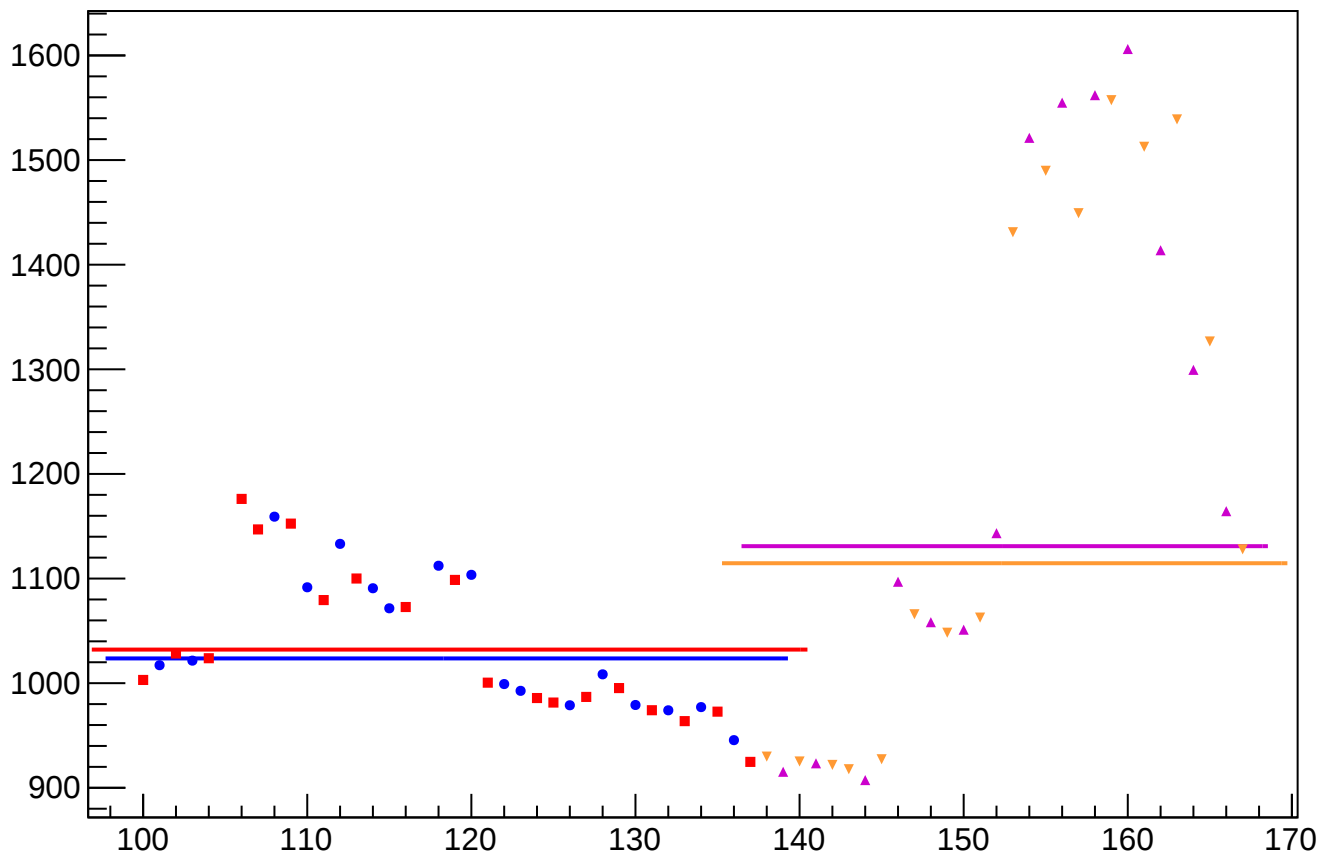
Right: -2.147 ± 0.276 $\chi^2/\text{NDF}: 212.6/35$

In: -1.981 ± 0.263 $\chi^2/\text{NDF}: 220.9/30$

Out: 0.004 ± 0.251 $\chi^2/\text{NDF}: 452.6/34$

All: -0.945 ± 0.182 $\chi^2/\text{NDF}: 703.3/65$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



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

Left Out: 1114.645 +/- 0.234 χ^2/NDF : 941179.4/15

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: 1122.301 +/- 0.170 χ^2/NDF : 1796002.9/29

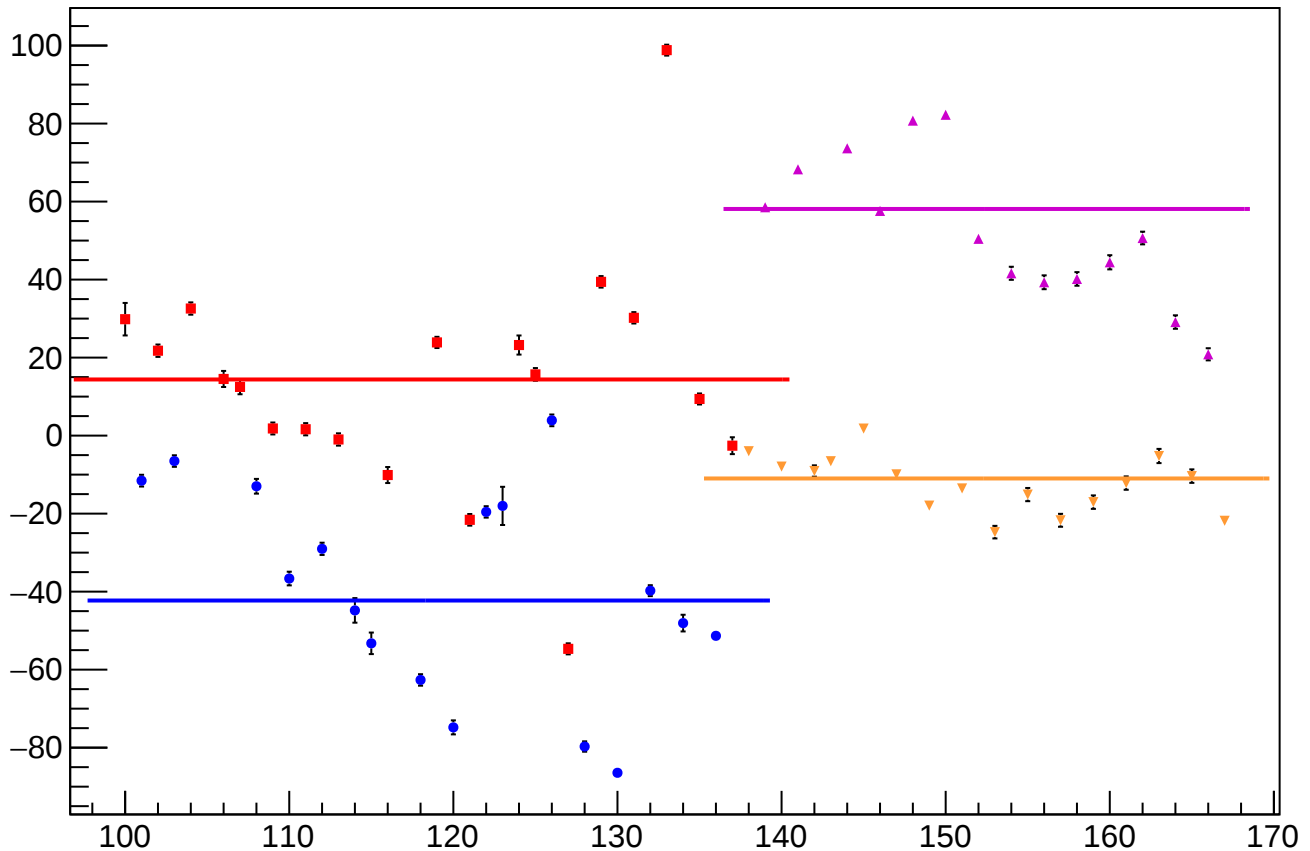
Right: 1027.970 +/- 0.195 χ^2/NDF : 112233.0/35

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

Out: 1079.772 +/- 0.178 χ^2/NDF : 1053184.6/34

All: 1081.562 +/- 0.128 χ^2/NDF : 2040650.2/65

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 χ^2/NDF : 5126.8/16

Left Out: -10.989 ± 0.338 χ^2/NDF : 453.1/15

Right Out: 14.393 ± 0.378 χ^2/NDF : 7669.8/18

Left In: 58.107 ± 0.361 χ^2/NDF : 2316.7/13

Left: 21.251 ± 0.247 χ^2/NDF : 22317.2/29

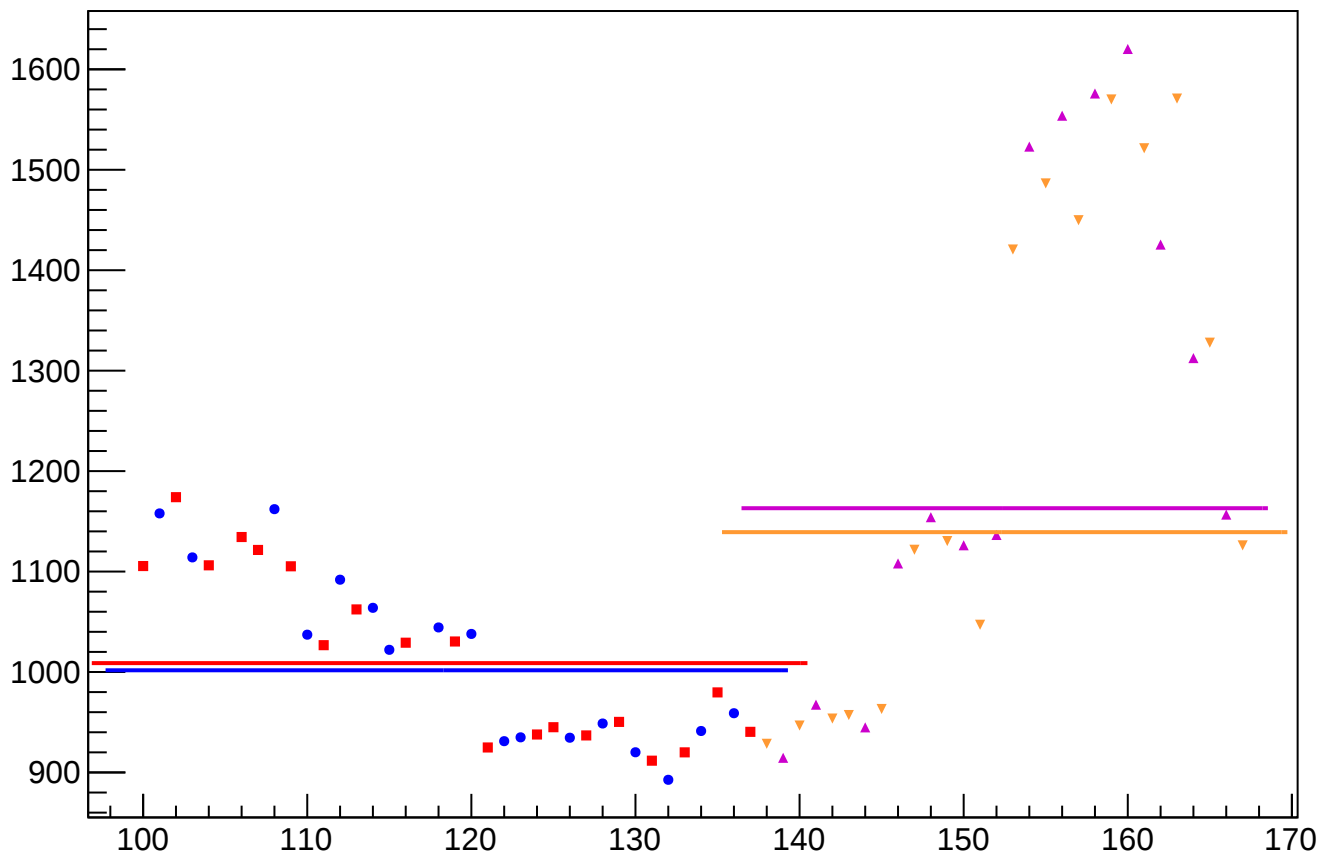
Right: -13.301 ± 0.271 χ^2/NDF : 23754.3/35

In: 11.423 ± 0.264 χ^2/NDF : 43415.0/30

Out: 0.258 ± 0.252 χ^2/NDF : 10627.9/34

All: 5.579 ± 0.182 χ^2/NDF : 54979.1/65

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1139.237 $\pm$ 0.239 χ^2 /NDF: 861199.8/15

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: 1150.356 $\pm$ 0.174 χ^2 /NDF: 1628001.6/29

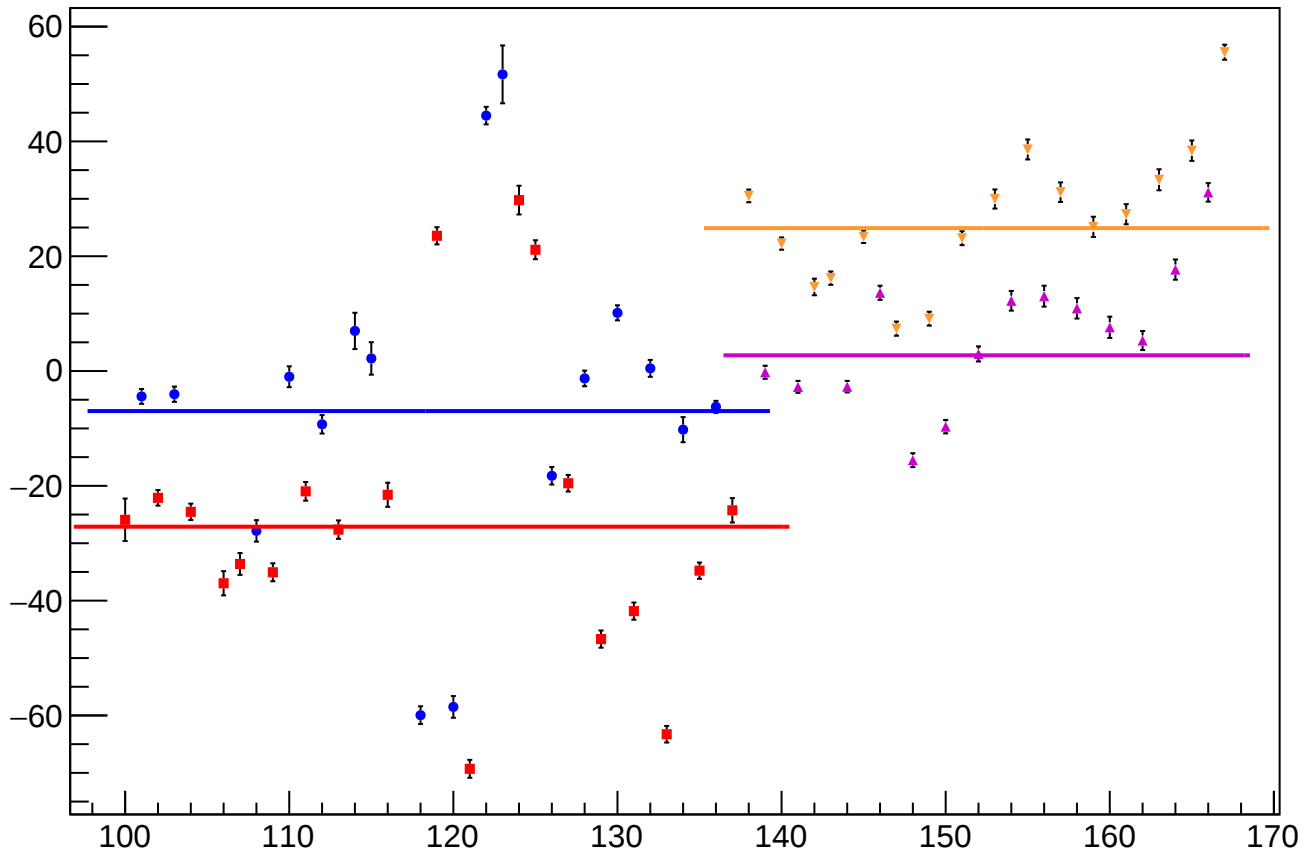
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

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

Out: 1081.462 $\pm$ 0.178 χ^2 /NDF: 1088754.8/34

All: 1084.591 $\pm$ 0.129 χ^2 /NDF: 2132916.5/65

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 24.898 ± 0.340 χ^2/NDF : 1218.5/15

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: 14.500 ± 0.248 χ^2/NDF : 4161.6/29

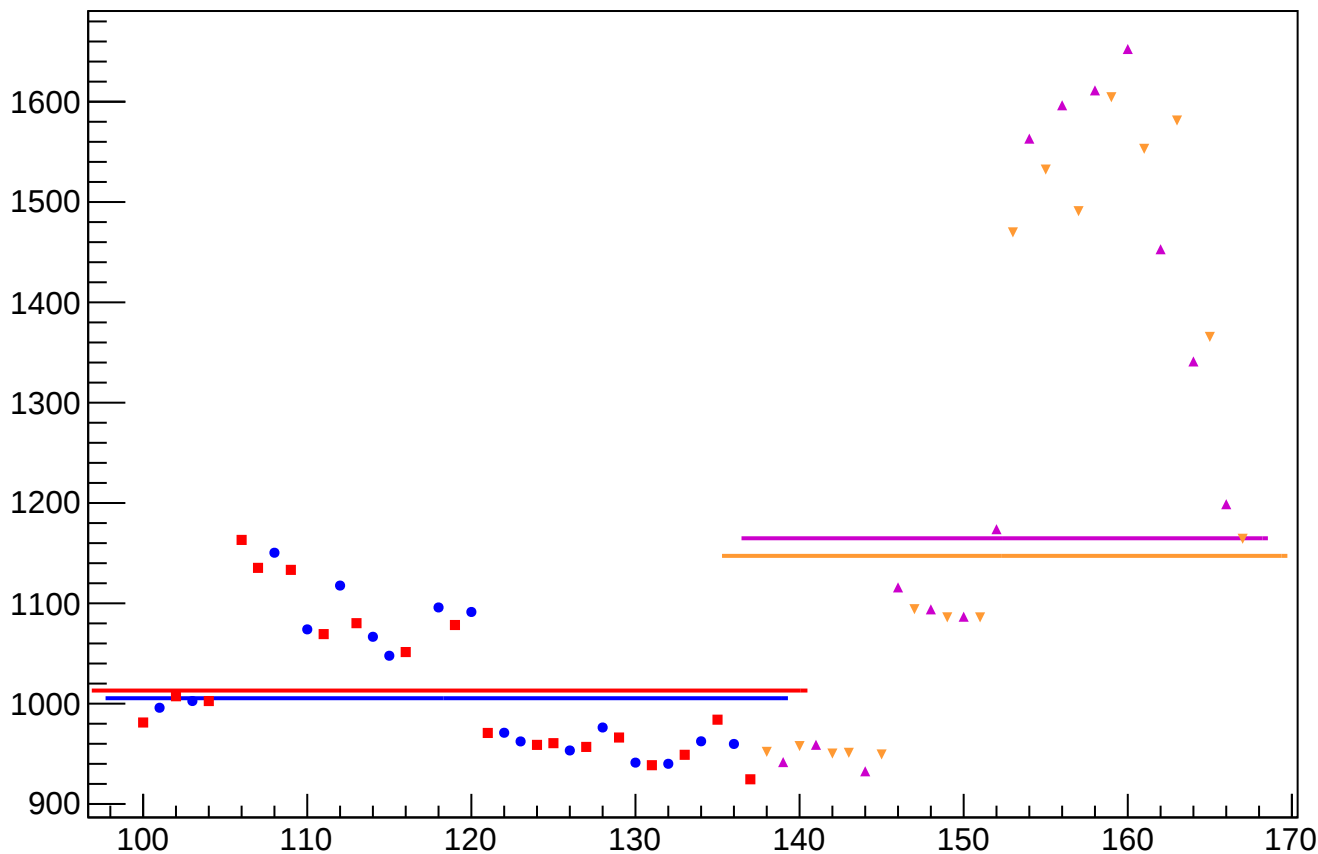
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

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

Out: 1.714 ± 0.253 χ^2/NDF : 15909.2/34

All: 0.042 ± 0.183 χ^2/NDF : 20926.9/65

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2 /NDF: 54586.0/16

Left Out: 1147.303 $\pm$ 0.241 χ^2 /NDF: 936451.8/15

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: 1155.531 $\pm$ 0.175 χ^2 /NDF: 1783284.9/29

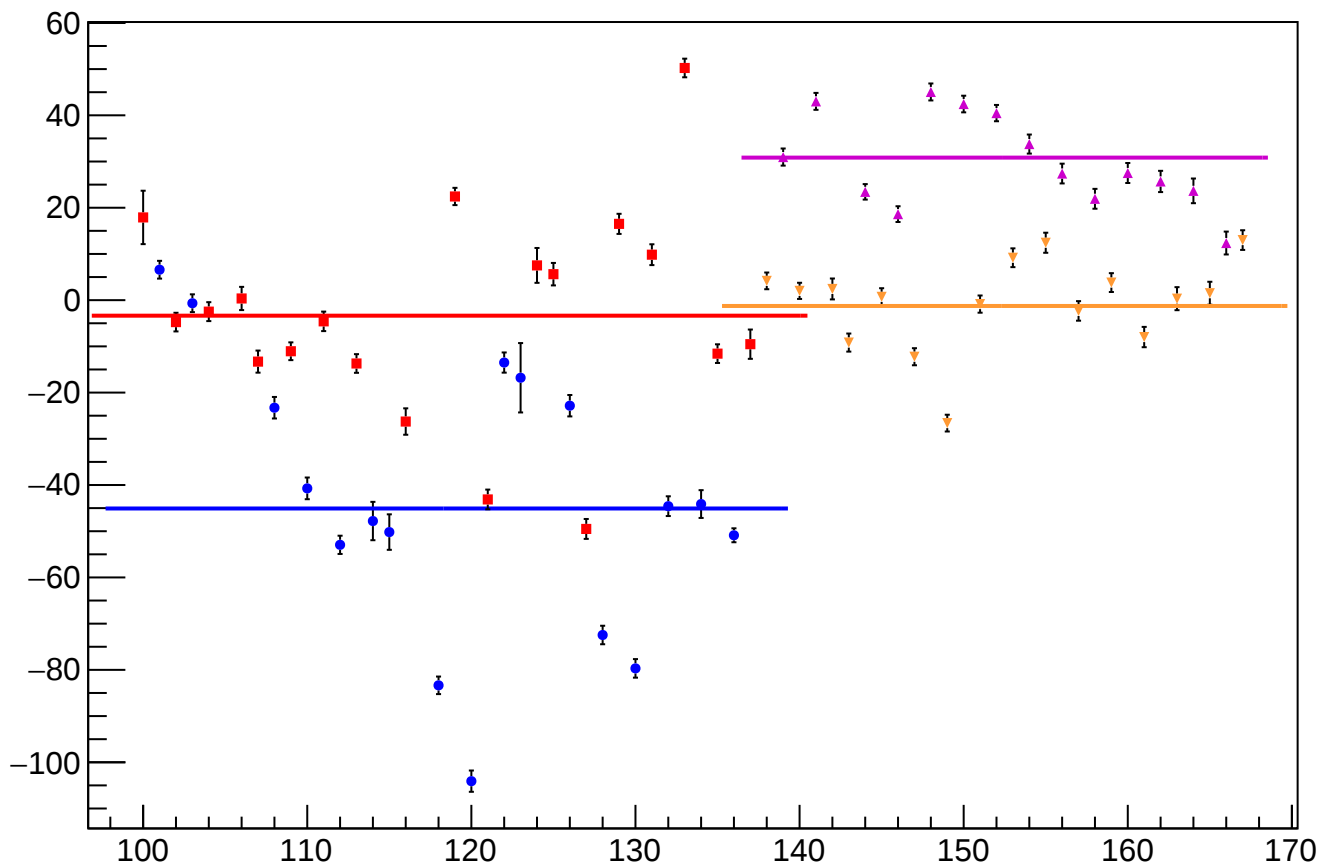
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

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

Out: 1087.469 $\pm$ 0.179 χ^2 /NDF: 1138355.7/34

All: 1088.981 $\pm$ 0.129 χ^2 /NDF: 2217977.2/65

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -1.257 ± 0.504 χ^2/NDF : 391.6/15

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: 14.073 ± 0.364 χ^2/NDF : 2665.6/29

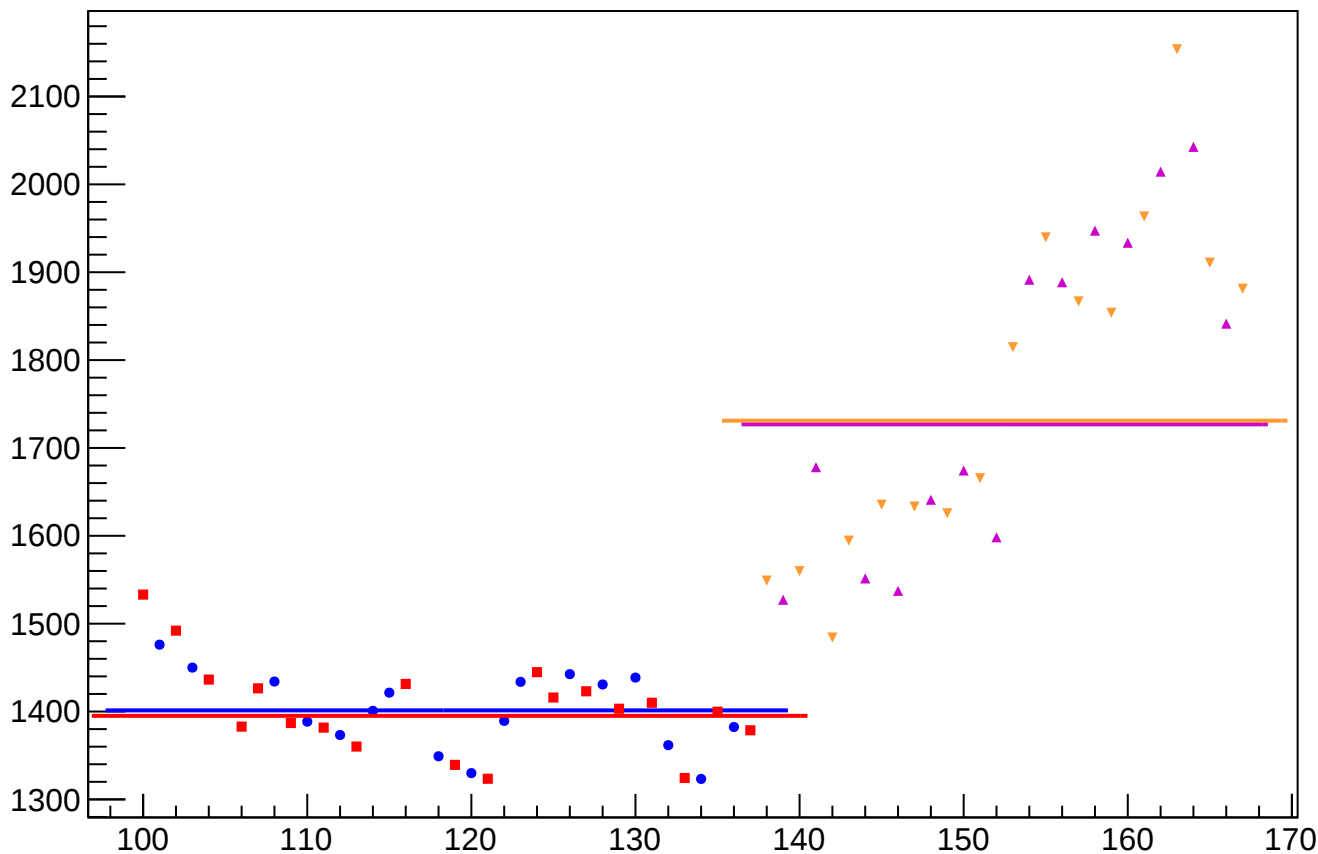
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

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

Out: -2.271 ± 0.363 χ^2/NDF : 2405.7/34

All: -4.181 ± 0.261 χ^2/NDF : 16163.2/65

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 ± 0.382 $\chi^2/\text{NDF}: 12852.1/16$

Left Out: 1731.063 ± 0.357 $\chi^2/\text{NDF}: 230818.6/15$

Right Out: 1395.105 ± 0.369 $\chi^2/\text{NDF}: 15520.0/18$

Left In: 1726.908 ± 0.373 $\chi^2/\text{NDF}: 215092.4/13$

Left: 1729.079 ± 0.258 $\chi^2/\text{NDF}: 445975.8/29$

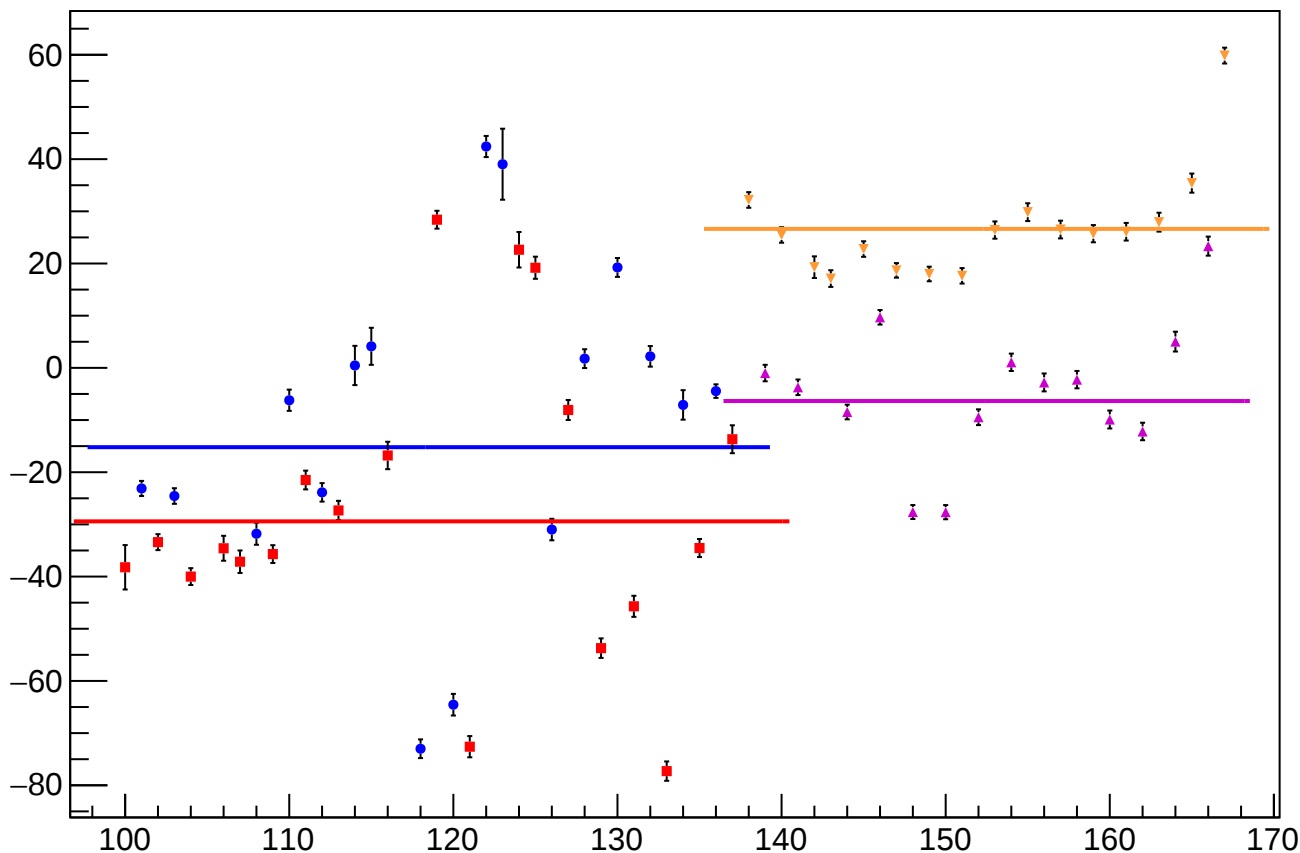
Right: 1398.102 ± 0.265 $\chi^2/\text{NDF}: 28508.5/35$

In: 1567.841 ± 0.267 $\chi^2/\text{NDF}: 600268.7/30$

Out: 1568.827 ± 0.256 $\chi^2/\text{NDF}: 675023.0/34$

All: 1568.353 ± 0.185 $\chi^2/\text{NDF}: 1275298.8/65$

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202±/0.472 χ^2/NDF : 3362.5/16

Left Out: 26.635±/0.399 χ^2/NDF :683.5/15

Right Out: -29.418±/0.456 χ^2/NDF : 3544.8/18

Left In: -6.353±/0.418 χ^2/NDF :997.6/13

Left: 10.879±/0.289 χ^2/NDF : 4939.9/29

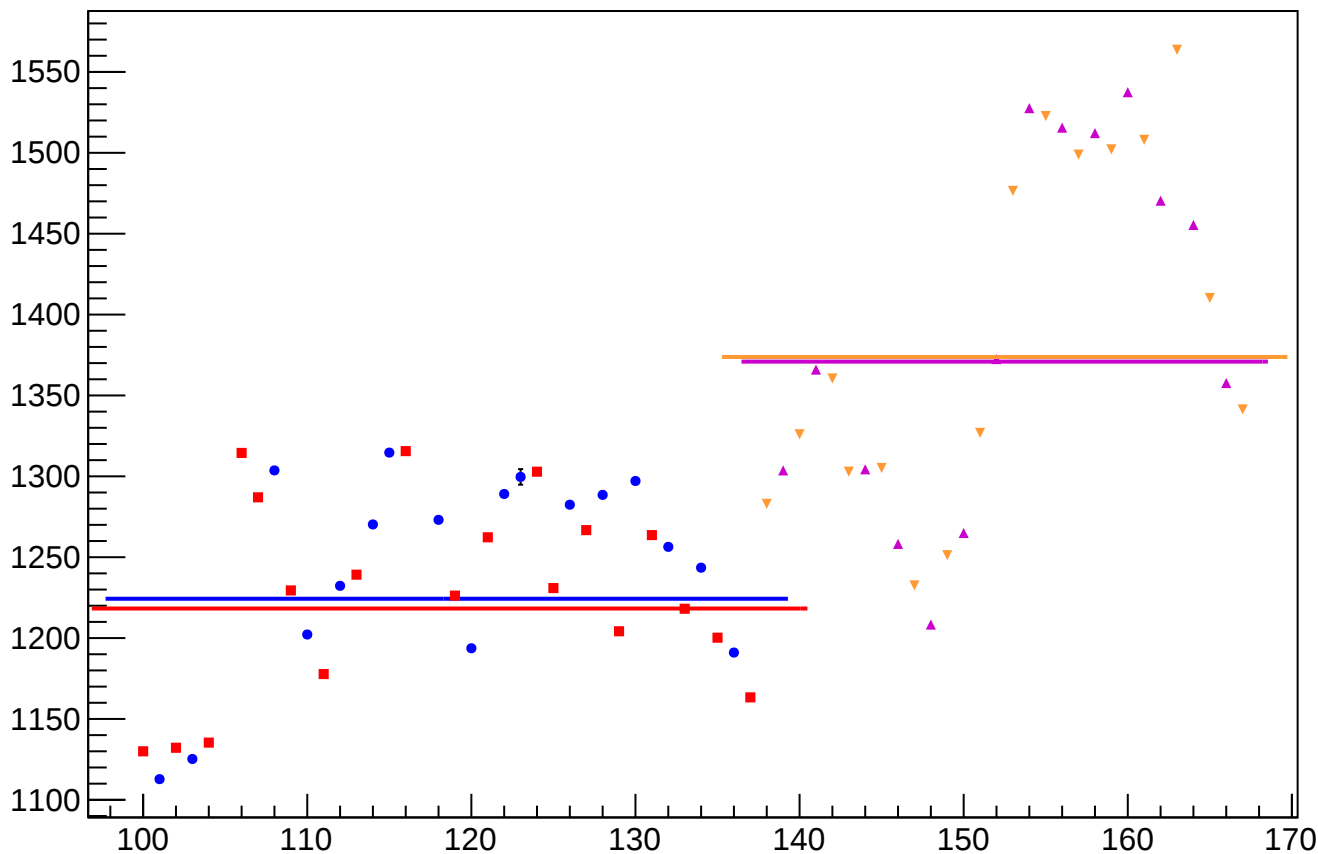
Right: -22.553±/0.328 χ^2/NDF : 7376.3/35

In: -10.237±/0.313 χ^2/NDF :4557.2/30

Out: 2.316±/0.300 χ^2/NDF :12775.4/34

All: -3.709±/0.217 χ^2/NDF : 18170.2/65

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1373.781+/-0.282 χ^2/NDF : 137921.9/15

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: 1372.415+/-0.204 χ^2/NDF : 276853.4/29

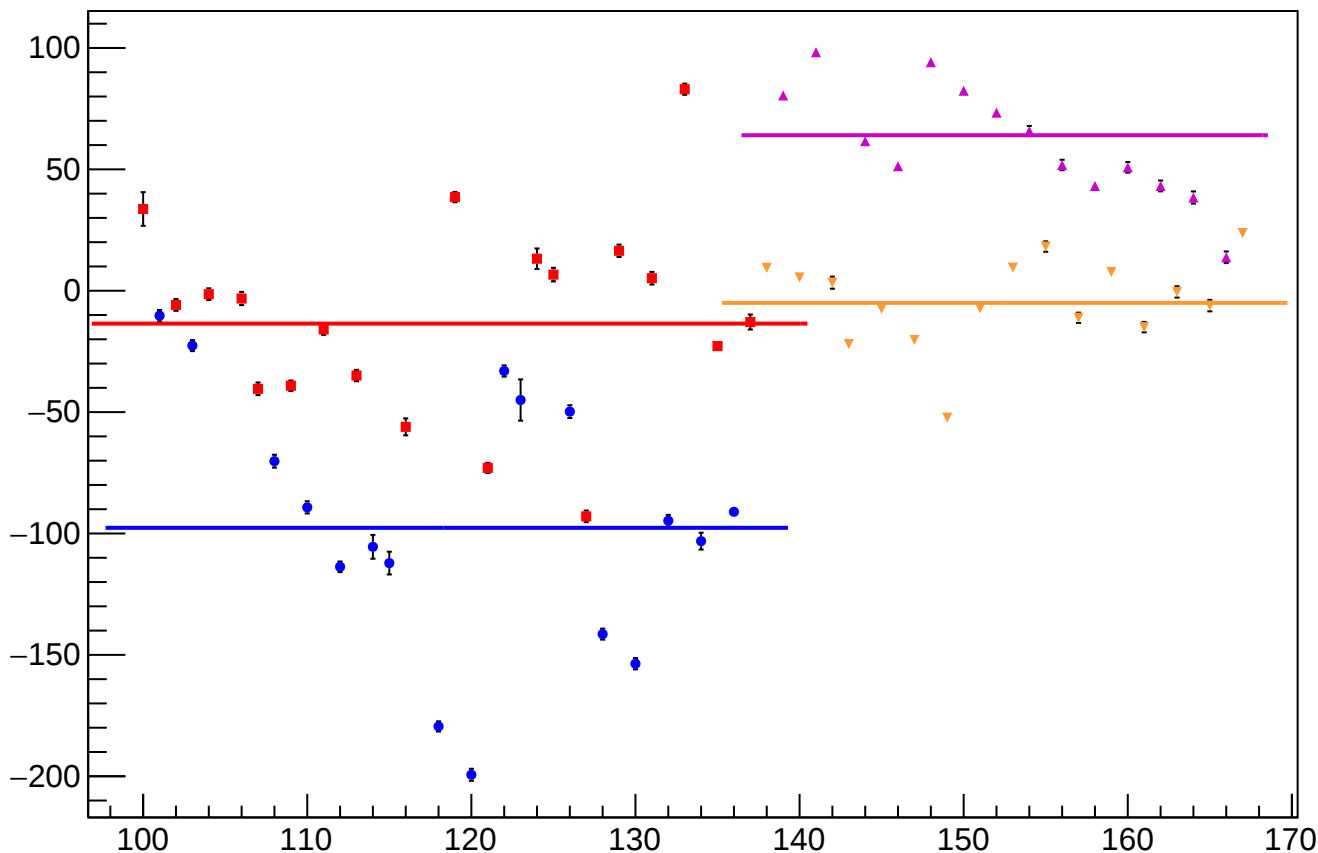
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

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

Out: 1306.312+/-0.212 χ^2/NDF : 297060.0/34

All: 1306.431+/-0.153 χ^2/NDF : 582903.9/65

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 $\pm$ 0.601 χ^2/NDF : 7936.6/16

Left Out: -5.006 $\pm$ 0.503 χ^2/NDF :1369.5/15

Right Out: -13.538 $\pm$ 0.579 χ^2/NDF : 5128.2/18

Left In: 64.064 $\pm$ 0.529 χ^2/NDF :1685.6/13

Left: 27.777 $\pm$ 0.364 χ^2/NDF : 12016.9/29

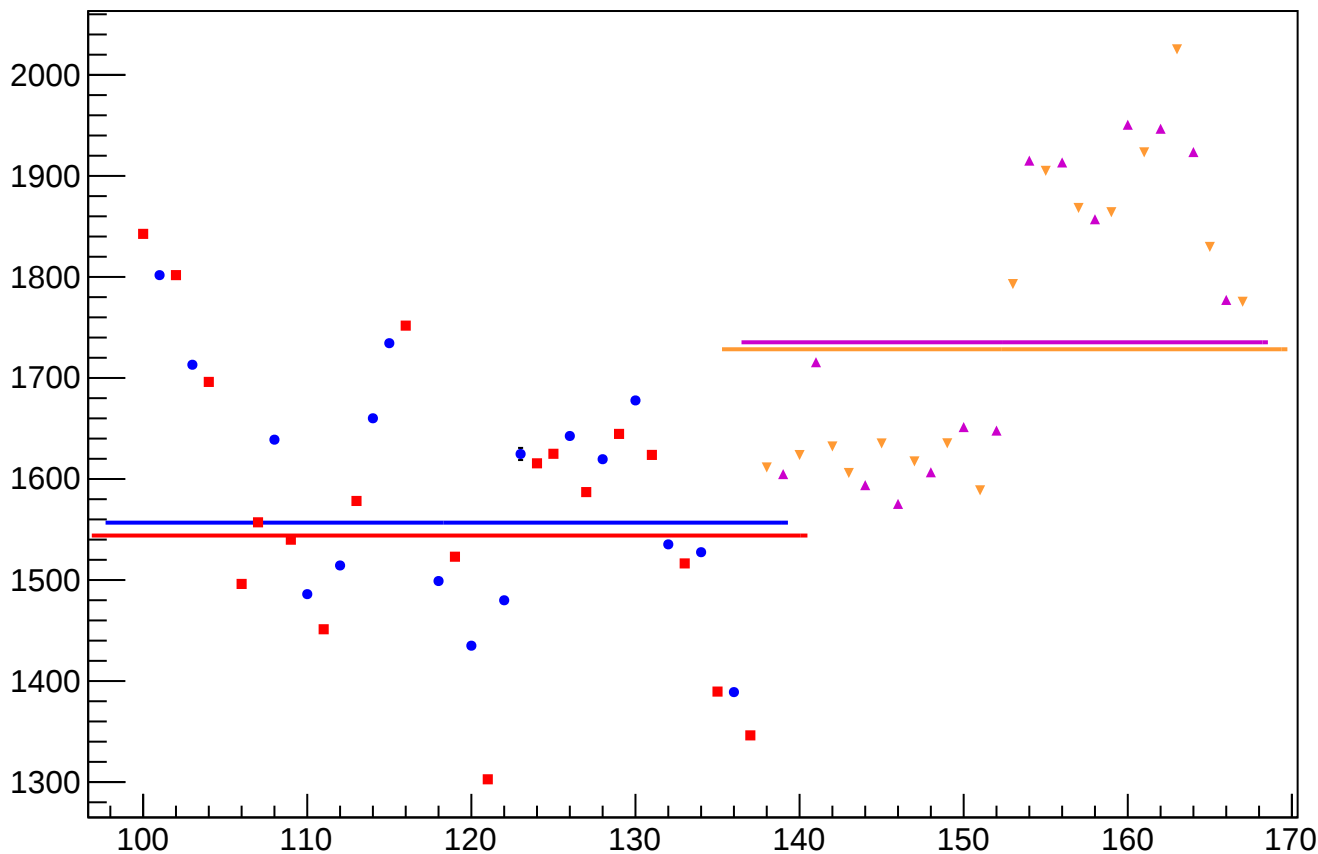
Right: -54.035 $\pm$ 0.417 χ^2/NDF : 23213.1/35

In: -6.468 $\pm$ 0.397 χ^2/NDF :50407.2/30

Out: -8.670 $\pm$ 0.380 χ^2/NDF :6621.4/34

All: -7.619 $\pm$ 0.274 χ^2/NDF : 57044.7/65

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1728.414 $\pm$ 0.355 χ^2 /NDF:141434.6/15

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: 1731.691 $\pm$ 0.258 χ^2 /NDF: 285448.2/29

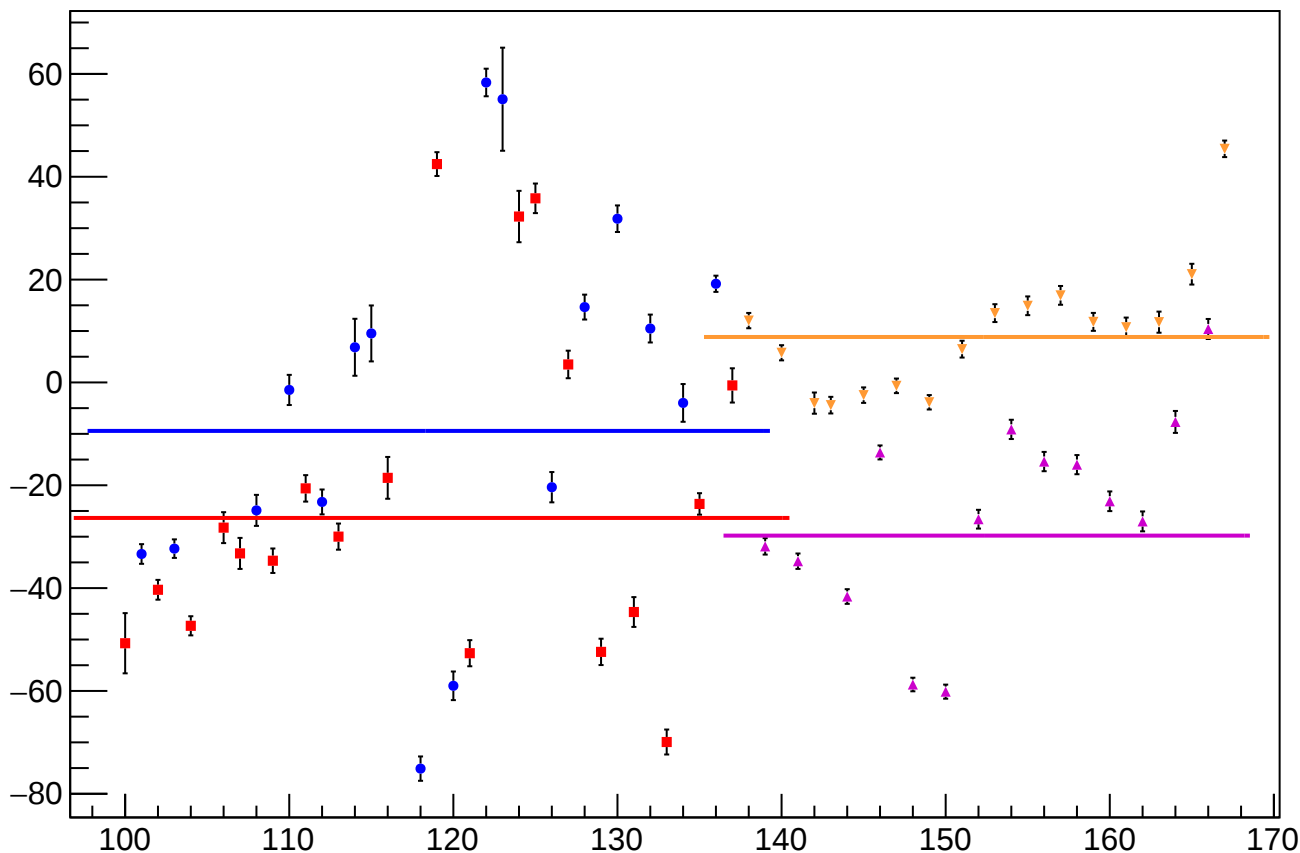
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

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

Out: 1649.231 $\pm$ 0.268 χ^2 /NDF:357501.8/34

All: 1653.161 $\pm$ 0.194 χ^2 /NDF: 682730.4/65

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 χ^2/NDF : 2924.1/16

Left Out: 8.840 ± 0.417 χ^2/NDF : 898.2/15

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: -9.399 ± 0.303 χ^2/NDF : 6936.8/29

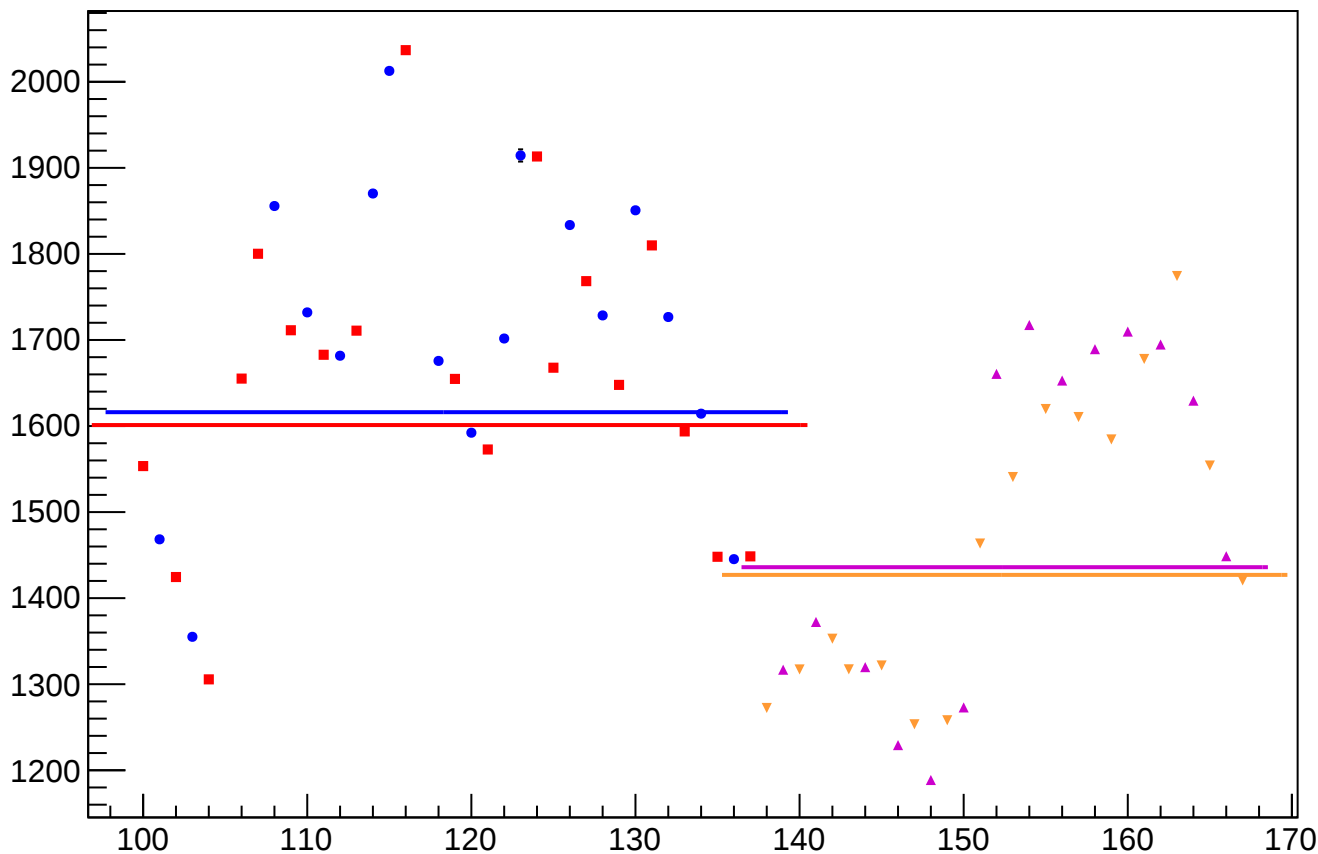
Right: -18.216 ± 0.434 χ^2/NDF : 5775.3/35

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

Out: -2.537 ± 0.343 χ^2/NDF : 5677.1/34

All: -12.281 ± 0.248 χ^2/NDF : 12989.5/65

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094+/-0.443 χ^2/NDF : 149596.3/16

Left Out: 1427.019+/-0.295 χ^2/NDF : 282521.8/15

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: 1431.245+/-0.214 χ^2/NDF : 687699.7/29

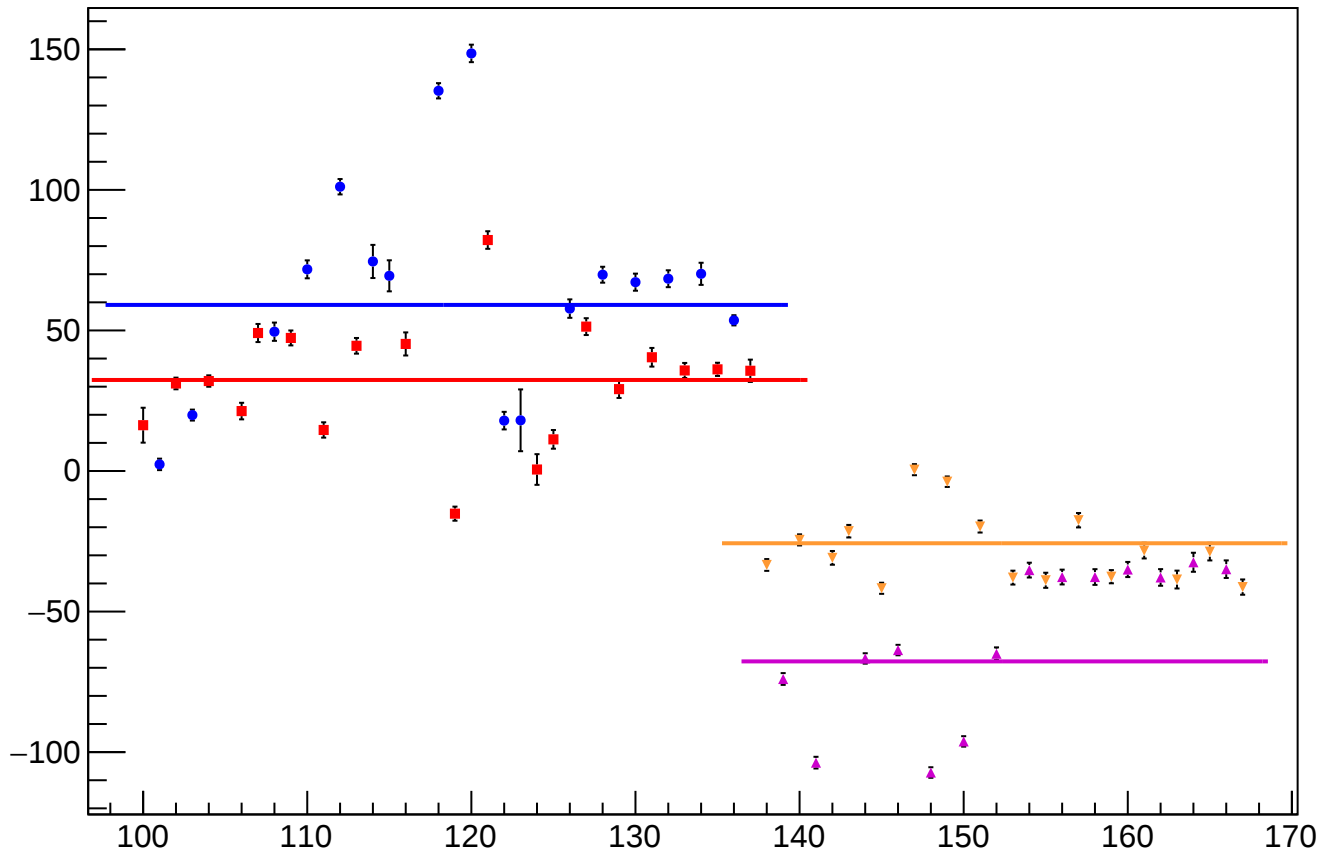
Right: 1608.326+/-0.307 χ^2/NDF : 303840.0/35

In: 1495.567+/-0.255 χ^2/NDF : 664976.5/30

Out: 1483.301+/-0.242 χ^2/NDF : 549101.0/34

All: 1489.126+/-0.176 χ^2/NDF : 1215294.3/65

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -25.702 ± 0.580 χ^2/NDF : 544.9/15

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: -45.583 ± 0.421 χ^2/NDF : 4886.2/29

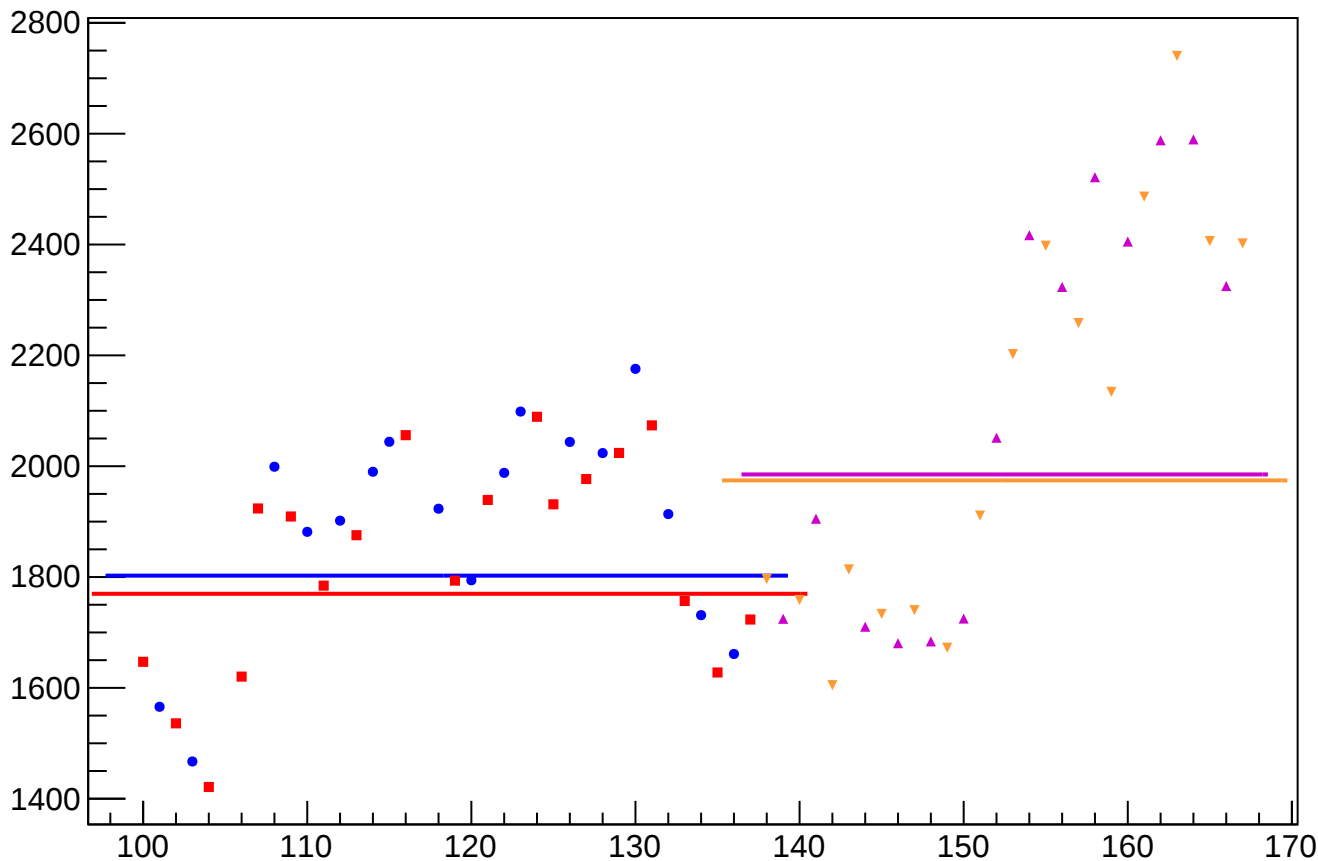
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -12.719 ± 0.461 χ^2/NDF : 23762.3/30

Out: -0.667 ± 0.438 χ^2/NDF : 5757.8/34

All: -6.383 ± 0.317 χ^2/NDF : 29879.9/65

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 1974.375+/-0.410 χ^2/NDF : 578295.2/15

Right Out: 1769.772+/-0.471 χ^2/NDF : 177893.4/18

Left In: 1985.154+/-0.433 χ^2/NDF : 603841.1/13

Left: 1979.474+/-0.298 χ^2/NDF : 1182462.9/29

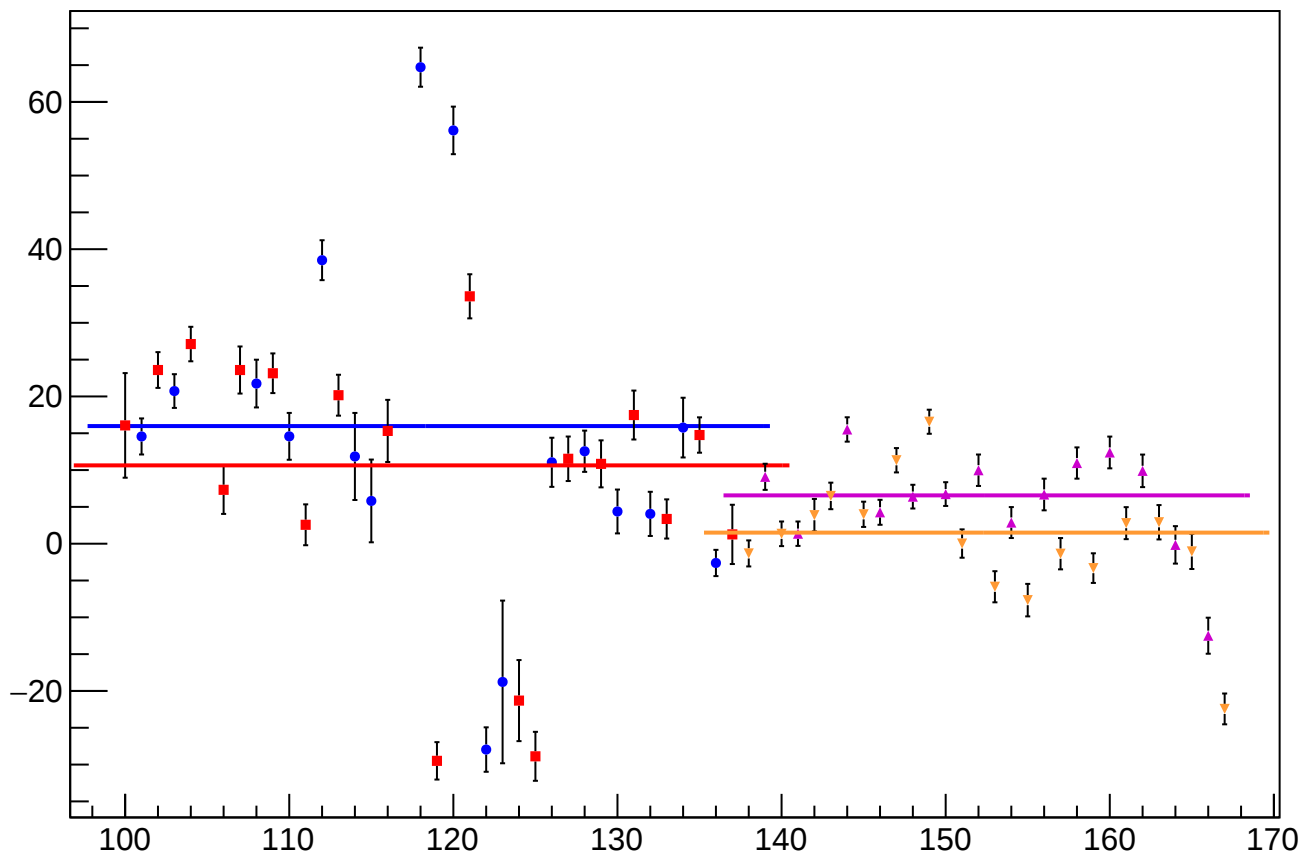
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1905.931+/-0.326 χ^2/NDF : 865111.4/30

Out: 1886.188+/-0.309 χ^2/NDF : 863432.3/34

All: 1895.551+/-0.224 χ^2/NDF : 1730474.9/65

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 $\pm$ 0.722 χ^2/NDF : 938.4/16

Left Out: 1.505 $\pm$ 0.486 χ^2/NDF : 303.9/15

Right Out: 10.638 $\pm$ 0.693 χ^2/NDF : 642.1/18

Left In: 6.562 $\pm$ 0.514 χ^2/NDF : 130.2/13

Left: 3.893 $\pm$ 0.353 χ^2/NDF : 485.2/29

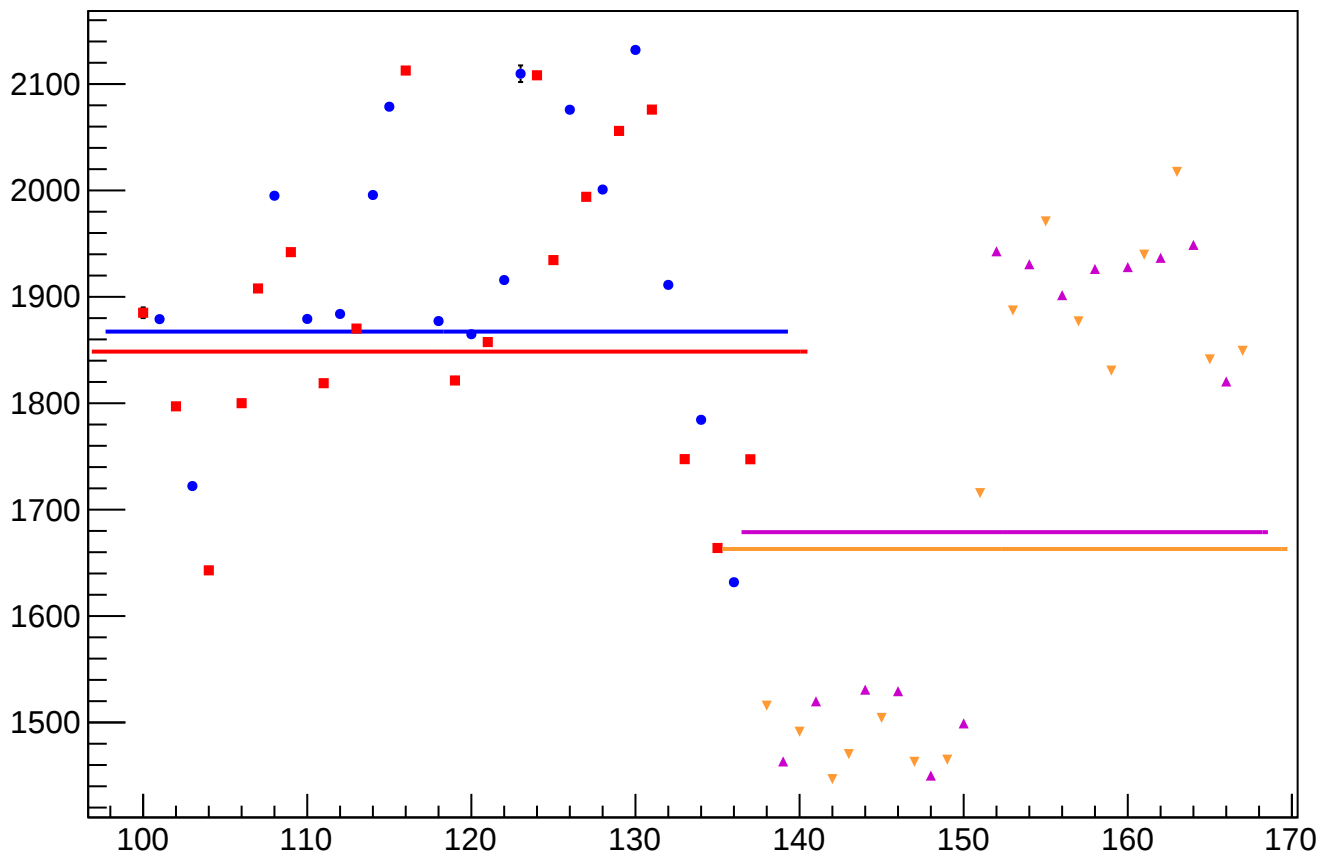
Right: 13.200 $\pm$ 0.500 χ^2/NDF : 1608.9/35

In: 9.728 $\pm$ 0.418 χ^2/NDF : 1181.5/30

Out: 4.513 $\pm$ 0.398 χ^2/NDF : 1062.4/34

All: 6.989 $\pm$ 0.288 χ^2/NDF : 2325.4/65

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2 /NDF: 80926.4/16

Left Out: 1663.023 $\pm$ 0.344 χ^2 /NDF:355333.1/15

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: 1670.496 $\pm$ 0.250 χ^2 /NDF: 691957.6/29

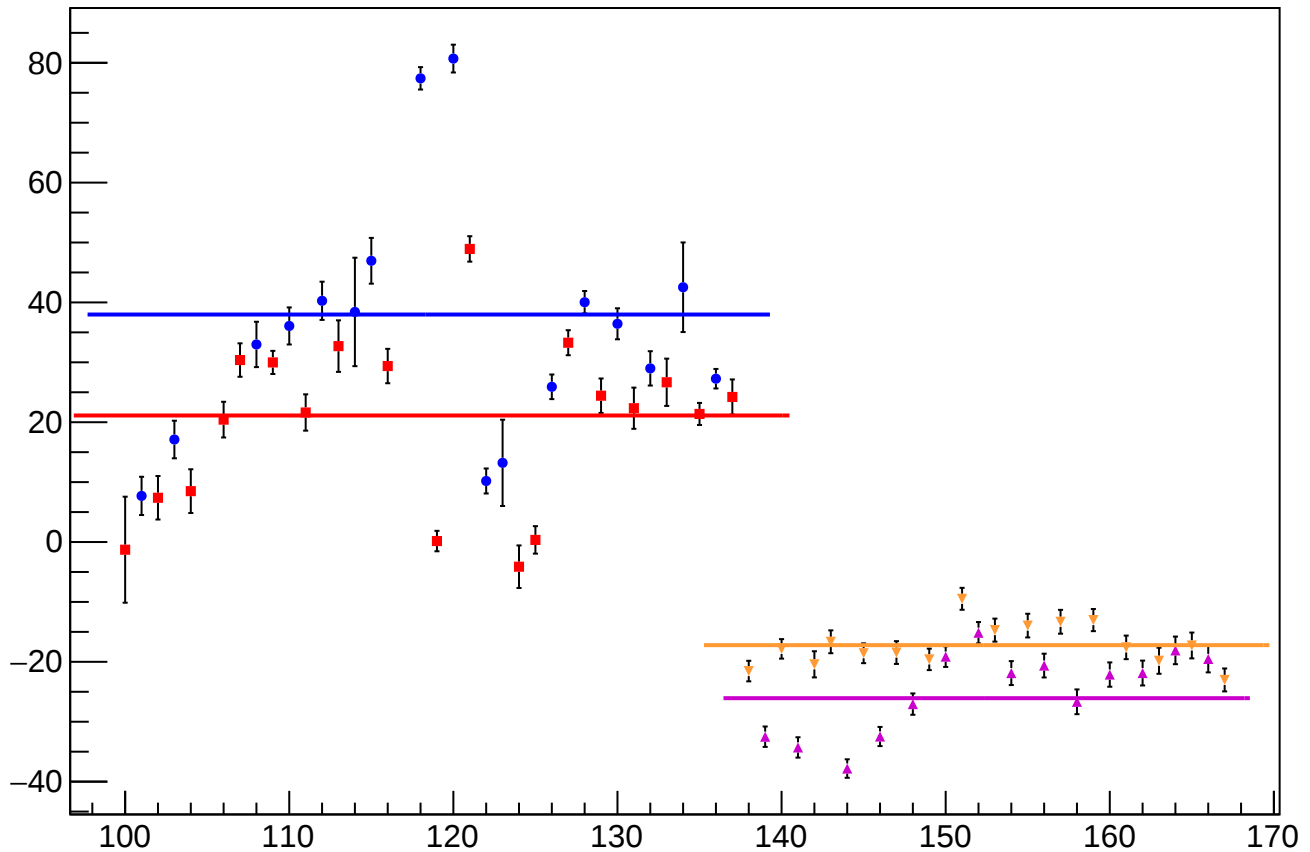
Right: 1857.561 $\pm$ 0.354 χ^2 /NDF: 154160.4/35

In: 1742.242 $\pm$ 0.296 χ^2 /NDF:507115.5/30

Out: 1724.119 $\pm$ 0.281 χ^2 /NDF:523879.8/34

All: 1732.724 $\pm$ 0.204 χ^2 /NDF: 1032965.1/65

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 χ^2/NDF : 1204.3/16

Left Out: -17.217 ± 0.472 χ^2/NDF : 53.6/15

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: -21.428 ± 0.342 χ^2/NDF : 426.8/29

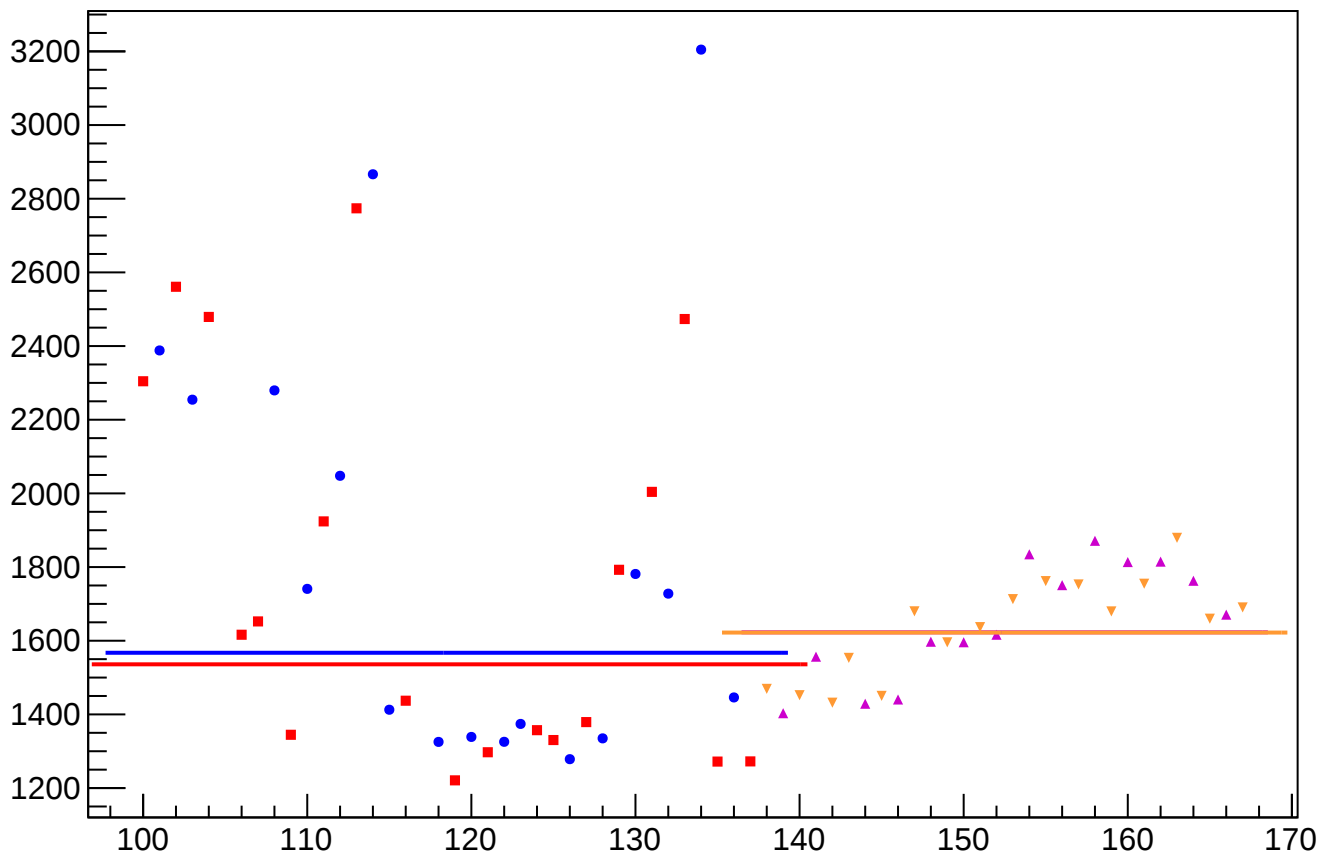
Right: 29.159 ± 0.440 χ^2/NDF : 2143.8/35

In: -1.930 ± 0.391 χ^2/NDF : 7702.4/30

Out: -2.801 ± 0.373 χ^2/NDF : 3105.9/34

All: -2.386 ± 0.270 χ^2/NDF : 10810.9/65

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 ± 0.451 χ^2/NDF : 673450.6/16

Left Out: 1622.186 ± 0.334 χ^2/NDF : 144653.6/15

Right Out: 1535.967 ± 0.430 χ^2/NDF : 882098.2/18

Left In: 1622.860 ± 0.351 χ^2/NDF : 197501.3/13

Left: 1622.507 ± 0.242 χ^2/NDF : 342156.8/29

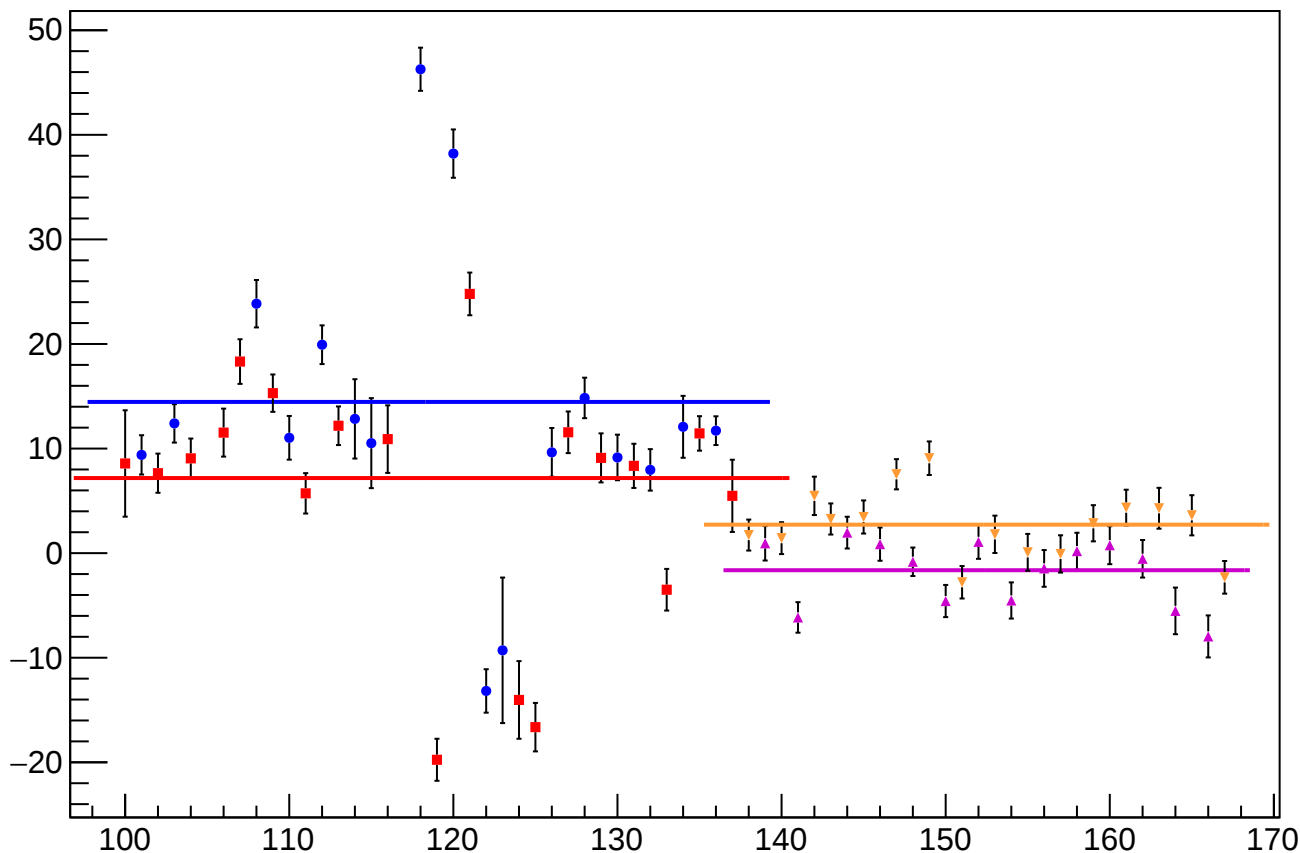
Right: 1550.918 ± 0.311 χ^2/NDF : 1558082.7/35

In: 1601.931 ± 0.277 χ^2/NDF : 880412.3/30

Out: 1589.767 ± 0.264 χ^2/NDF : 1051819.8/34

All: 1595.559 ± 0.191 χ^2/NDF : 1933244.5/65

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 $\pm$ 0.523 χ^2 /NDF: 595.9/16

Left Out: 2.722 $\pm$ 0.412 χ^2 /NDF:60.3/15

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: 0.710 $\pm$ 0.302 χ^2 /NDF: 157.8/29

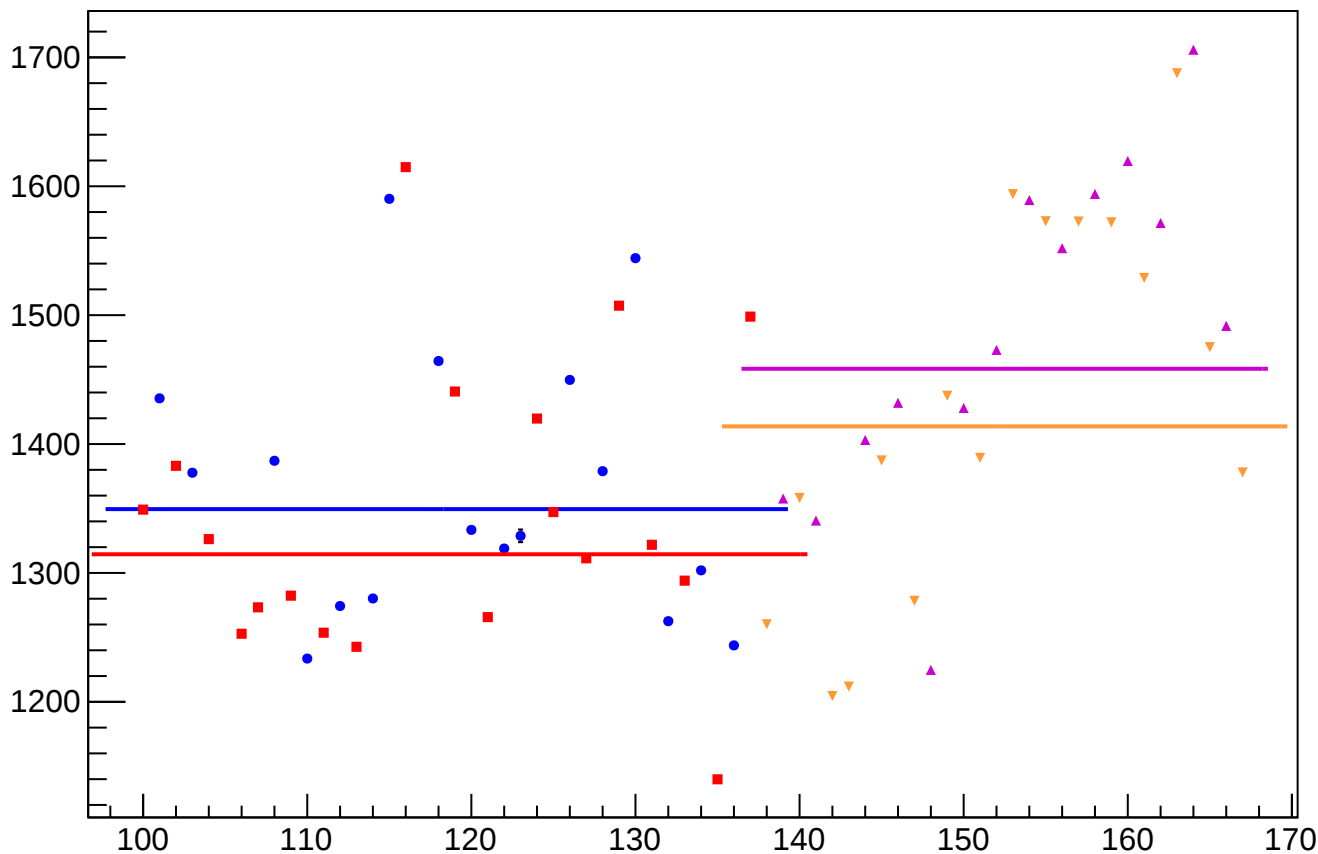
Right: 10.615 $\pm$ 0.359 χ^2 /NDF: 1193.9/35

In: 5.118 $\pm$ 0.339 χ^2 /NDF:1191.1/30

Out: 4.551 $\pm$ 0.317 χ^2 /NDF:603.9/34

All: 4.815 $\pm$ 0.231 χ^2 /NDF: 1796.5/65

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 +/- 0.370 χ^2/NDF : 64667.6/16

Left Out: 1413.712 +/- 0.292 χ^2/NDF : 226714.7/15

Right Out: 1314.485 +/- 0.350 χ^2/NDF : 80952.7/18

Left In: 1458.419 +/- 0.315 χ^2/NDF : 161509.1/13

Left: 1434.371 +/- 0.214 χ^2/NDF : 399092.4/29

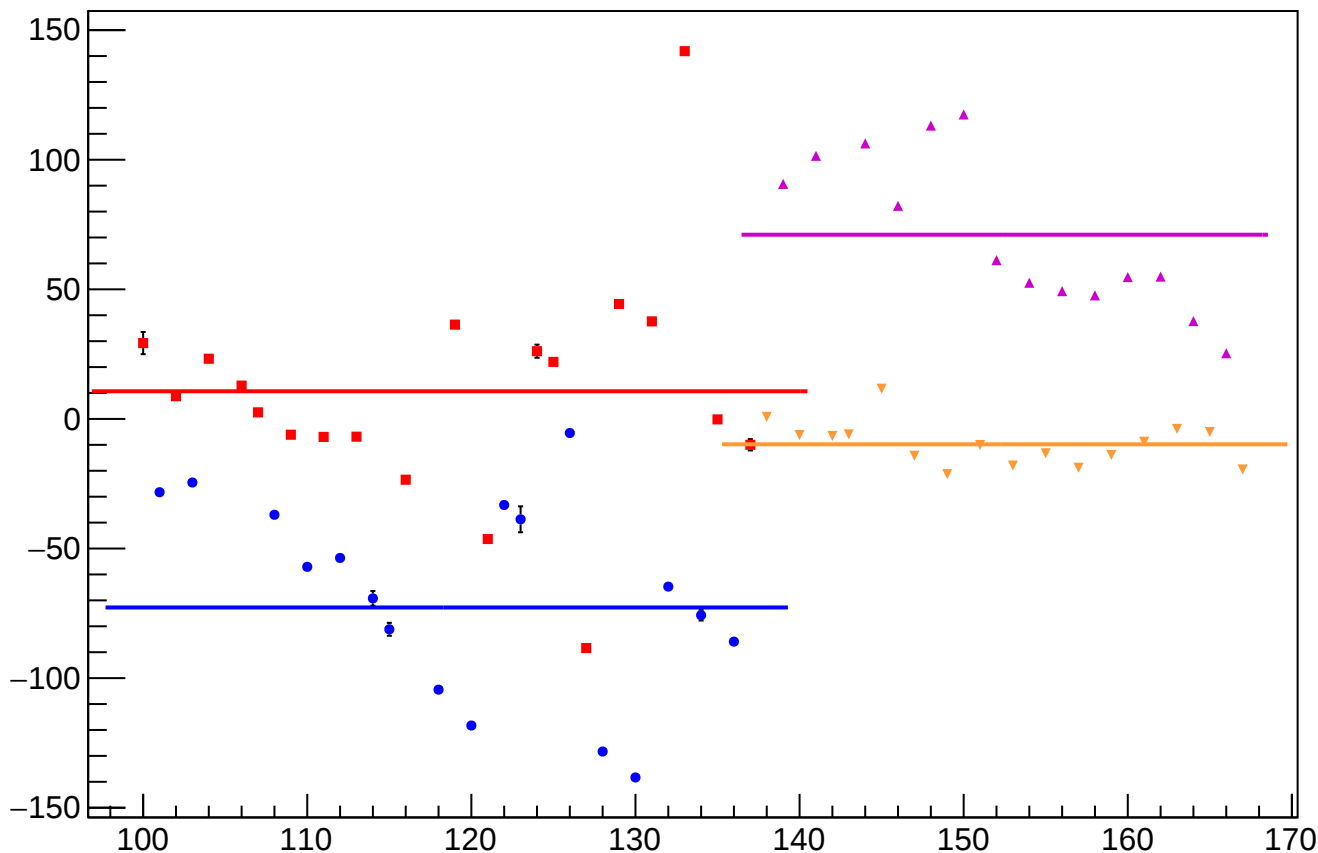
Right: 1331.011 +/- 0.254 χ^2/NDF : 150358.7/35

In: 1412.734 +/- 0.240 χ^2/NDF : 276469.4/30

Out: 1373.013 +/- 0.224 χ^2/NDF : 355193.1/34

All: 1391.526 +/- 0.164 χ^2/NDF : 646333.9/65

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 ± 0.362 $\chi^2/\text{NDF}: 11690.4/16$

Left Out: -9.790 ± 0.270 $\chi^2/\text{NDF}: 956.7/15$

Right Out: 10.671 ± 0.352 $\chi^2/\text{NDF}: 18171.0/18$

Left In: 71.070 ± 0.288 $\chi^2/\text{NDF}: 9649.5/13$

Left: 28.103 ± 0.197 $\chi^2/\text{NDF}: 52555.0/29$

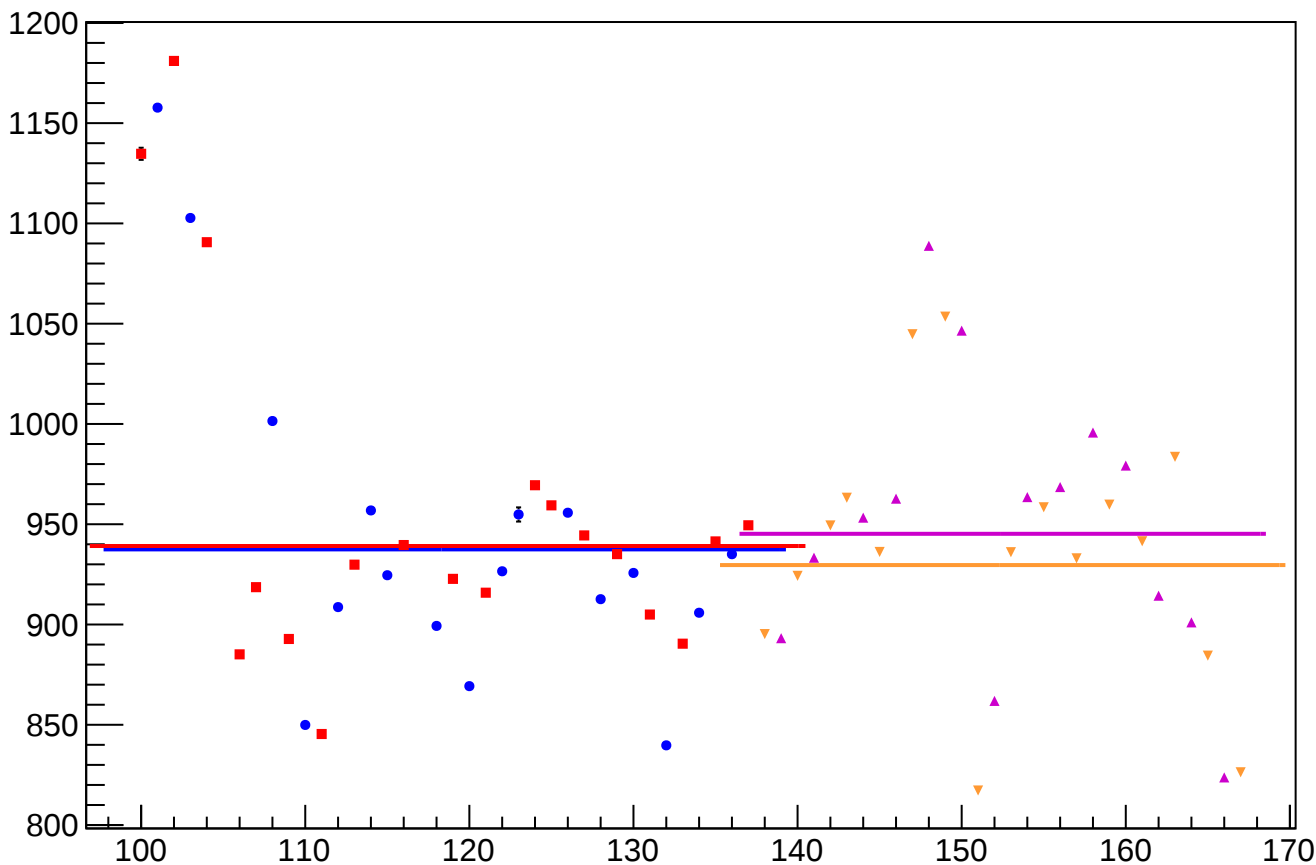
Right: -29.865 ± 0.253 $\chi^2/\text{NDF}: 57099.2/35$

In: 15.444 ± 0.225 $\chi^2/\text{NDF}: 117926.9/30$

Out: -2.211 ± 0.214 $\chi^2/\text{NDF}: 21250.9/34$

All: 6.179 ± 0.155 $\chi^2/\text{NDF}: 142398.6/65$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 $\pm$ 0.256 χ^2/NDF : 98307.6/16

Left Out: 929.638 $\pm$ 0.191 χ^2/NDF : 111346.5/15

Right Out: 939.140 $\pm$ 0.249 χ^2/NDF : 90253.2/18

Left In: 945.226 $\pm$ 0.203 χ^2/NDF : 101589.7/13

Left: 936.943 $\pm$ 0.139 χ^2/NDF : 216054.2/29

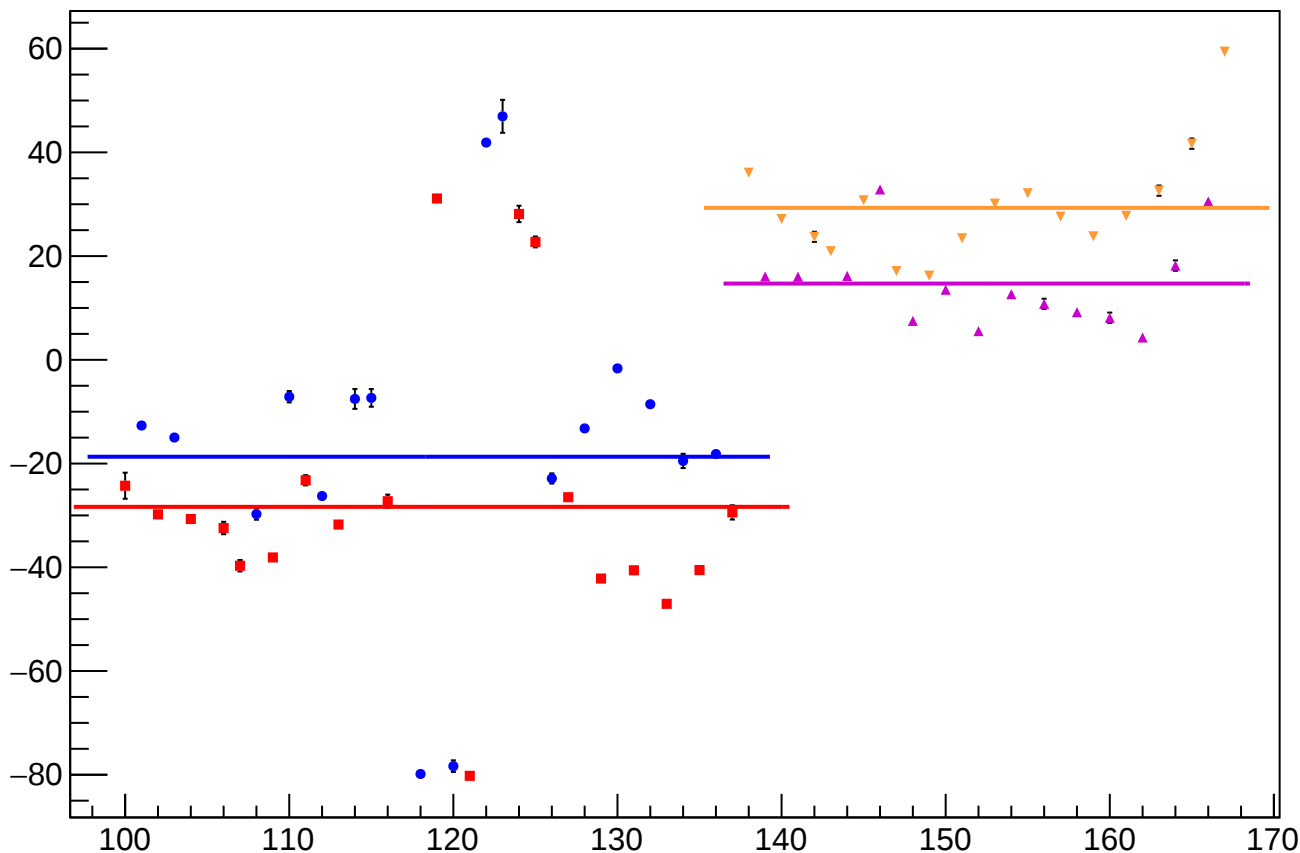
Right: 938.320 $\pm$ 0.179 χ^2/NDF : 188583.1/35

In: 942.220 $\pm$ 0.159 χ^2/NDF : 200461.6/30

Out: 933.158 $\pm$ 0.152 χ^2/NDF : 202515.5/34

All: 937.464 $\pm$ 0.110 χ^2/NDF : 404674.3/65

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 29.301 ± 0.209 $\chi^2/\text{NDF}: 2567.9/15$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 14.702 ± 0.223 $\chi^2/\text{NDF}: 1335.7/13$

Left: 22.466 ± 0.153 $\chi^2/\text{NDF}: 6182.9/29$

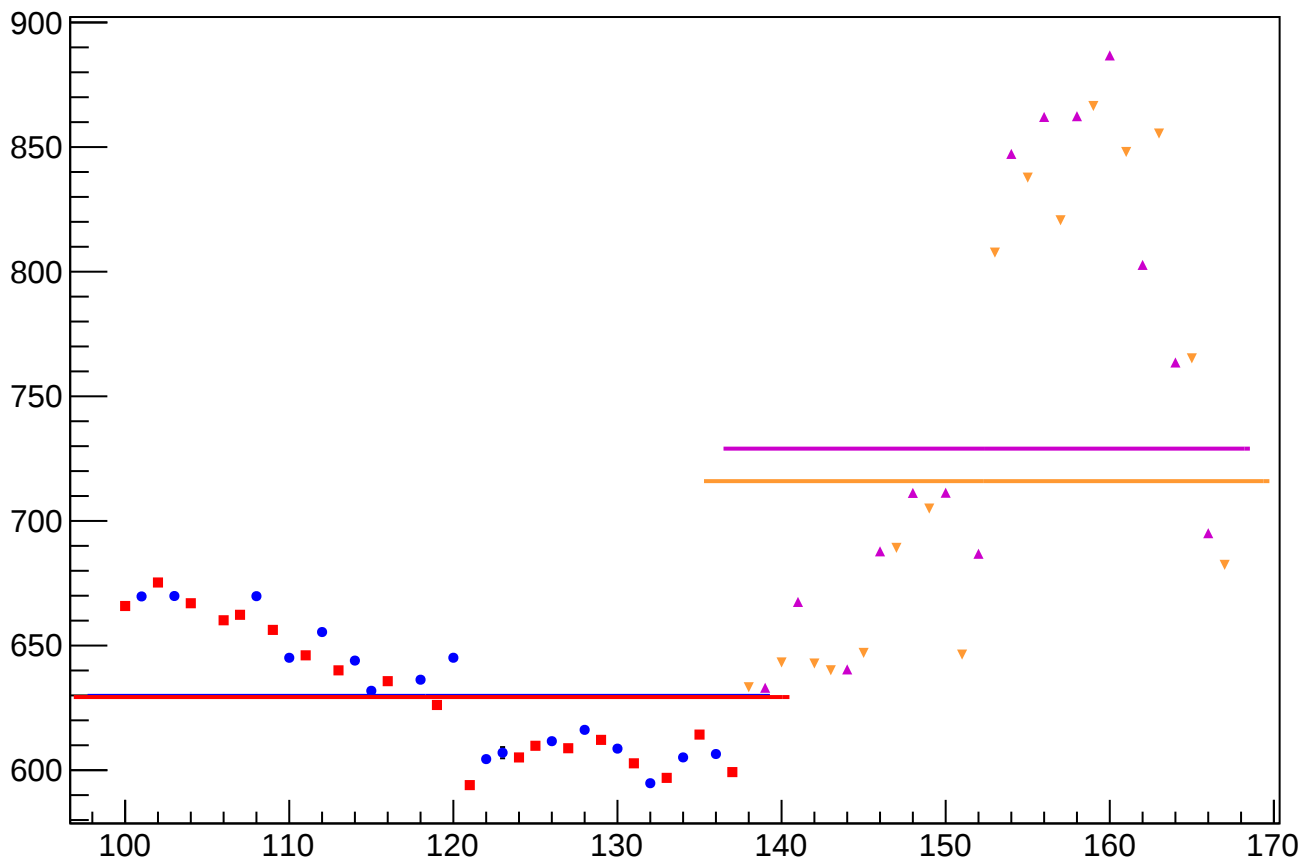
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: -0.585 ± 0.164 $\chi^2/\text{NDF}: 24603.0/30$

Out: 3.863 ± 0.156 $\chi^2/\text{NDF}: 48568.7/34$

All: 1.747 ± 0.113 $\chi^2/\text{NDF}: 73556.4/65$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 715.968+/-0.148 χ^2/NDF : 329437.2/15

Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18

Left In: 729.010+/-0.158 χ^2/NDF : 269742.8/13

Left: 722.074+/-0.108 χ^2/NDF : 602817.4/29

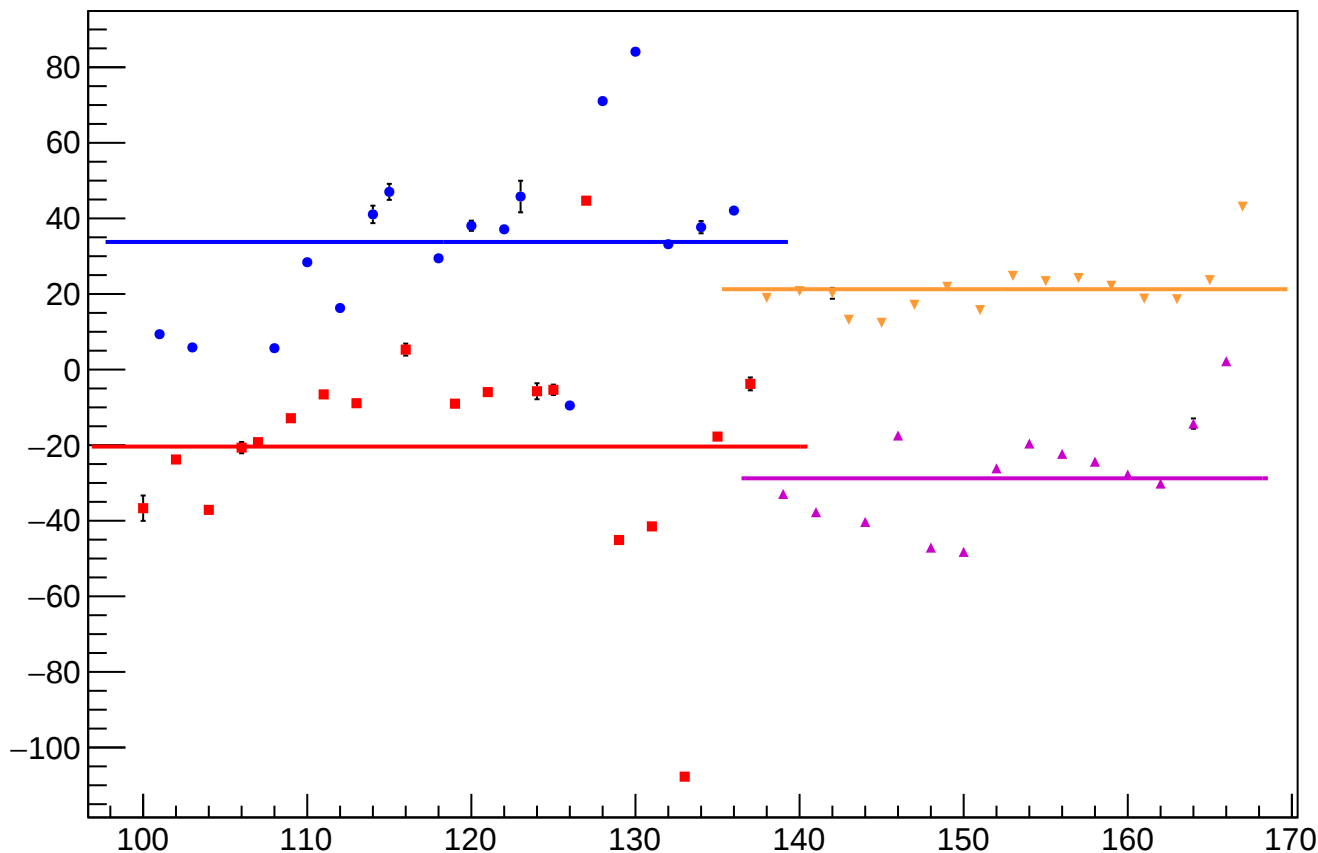
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 683.591+/-0.116 χ^2/NDF : 474222.6/30

Out: 677.742+/-0.111 χ^2/NDF : 506238.8/34

All: 680.524+/-0.080 χ^2/NDF : 981791.7/65

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2/NDF : 6487.9/16

Left Out: 21.269+/-0.298 χ^2/NDF : 565.2/15

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: -2.448+/-0.216 χ^2/NDF : 15538.1/29

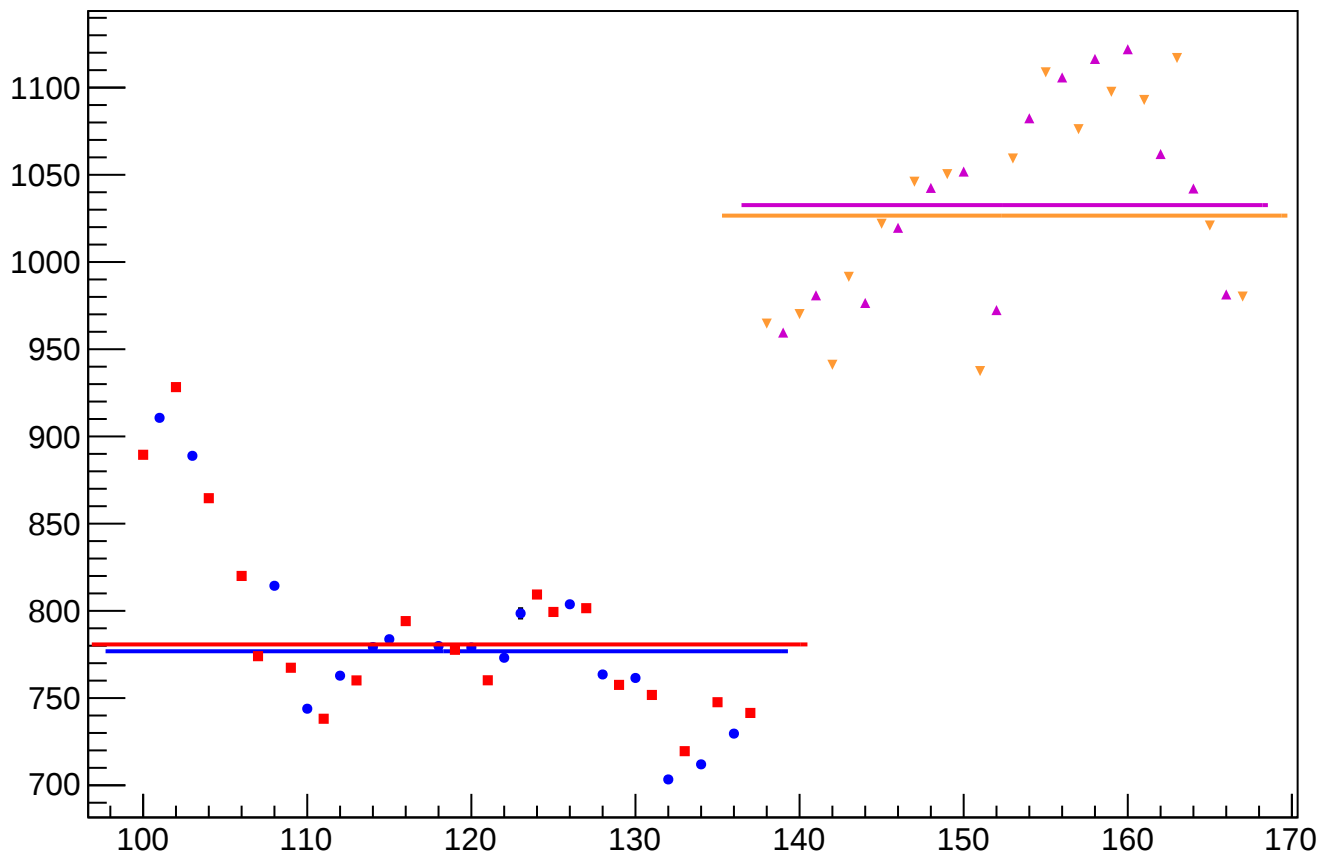
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 3.946+/-0.217 χ^2/NDF : 28851.3/30

Out: 0.051+/-0.209 χ^2/NDF : 21793.2/34

All: 1.924+/-0.150 χ^2/NDF : 50811.9/65

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1026.603 $\pm$ 0.211 χ^2 /NDF: 75743.4/15

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: 1029.457 $\pm$ 0.153 χ^2 /NDF: 135744.8/29

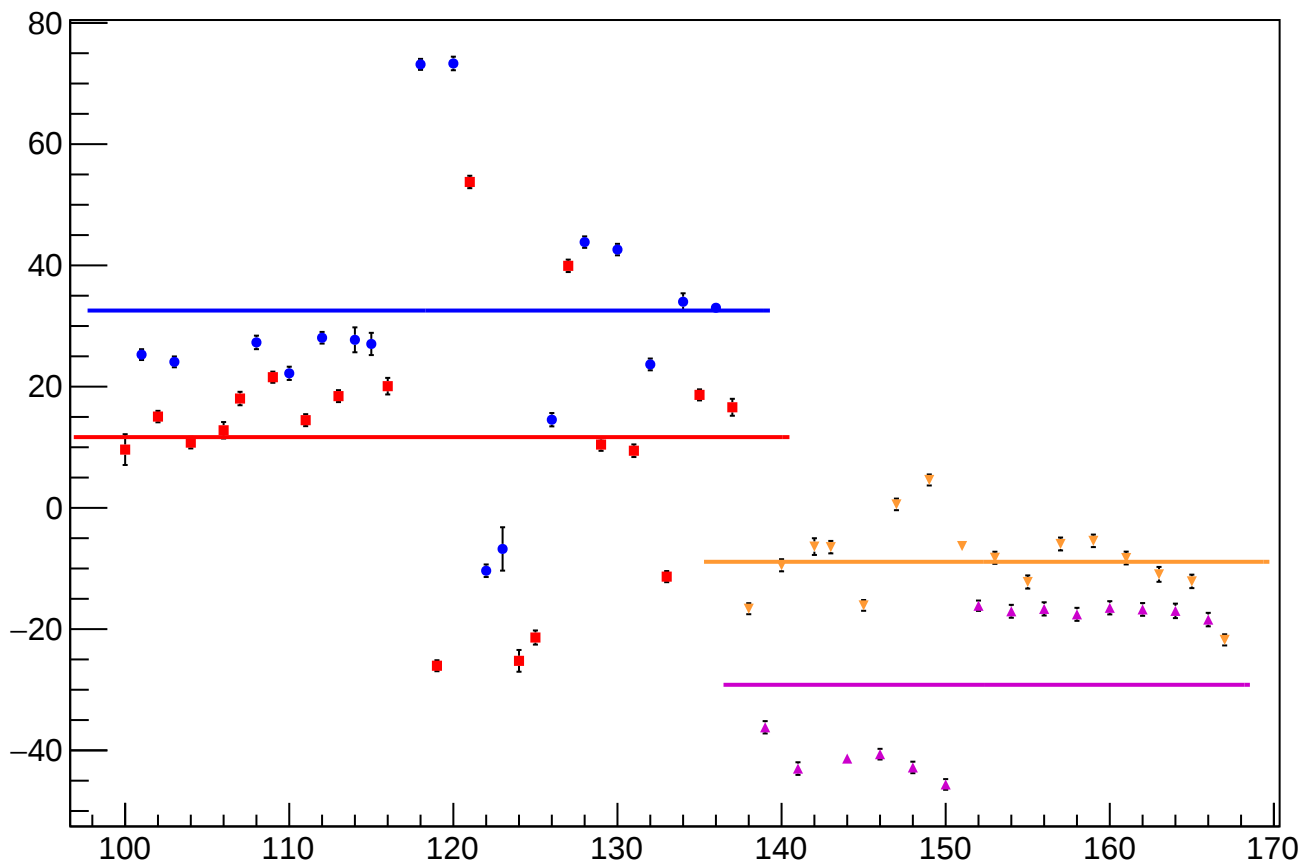
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 898.823 $\pm$ 0.153 χ^2 /NDF: 820968.9/30

Out: 901.340 $\pm$ 0.148 χ^2 /NDF: 826078.5/34

All: 900.130 $\pm$ 0.106 χ^2 /NDF: 1647187.2/65

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -8.893 ± 0.250 χ^2/NDF : 711.5/15

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: -18.465 ± 0.182 χ^2/NDF : 6054.4/29

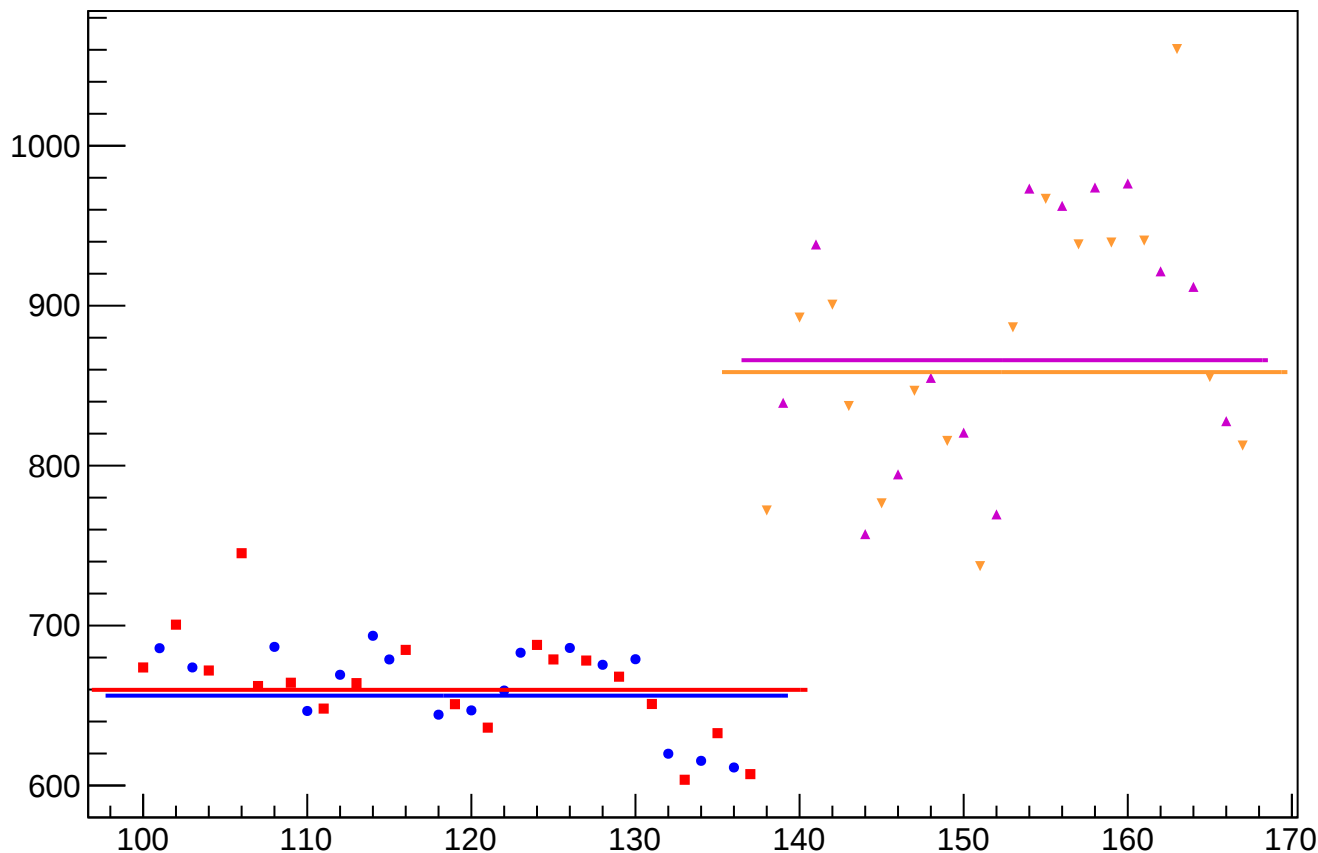
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: 3.131 ± 0.183 χ^2/NDF : 36726.4/30

Out: 1.532 ± 0.176 χ^2/NDF : 10488.2/34

All: 2.300 ± 0.127 χ^2/NDF : 47254.2/65

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 $\pm$ 0.179 χ^2/NDF : 23569.6/16

Left Out: 858.479 $\pm$ 0.177 χ^2/NDF :204753.9/15

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: 861.989 $\pm$ 0.129 χ^2/NDF : 382895.0/29

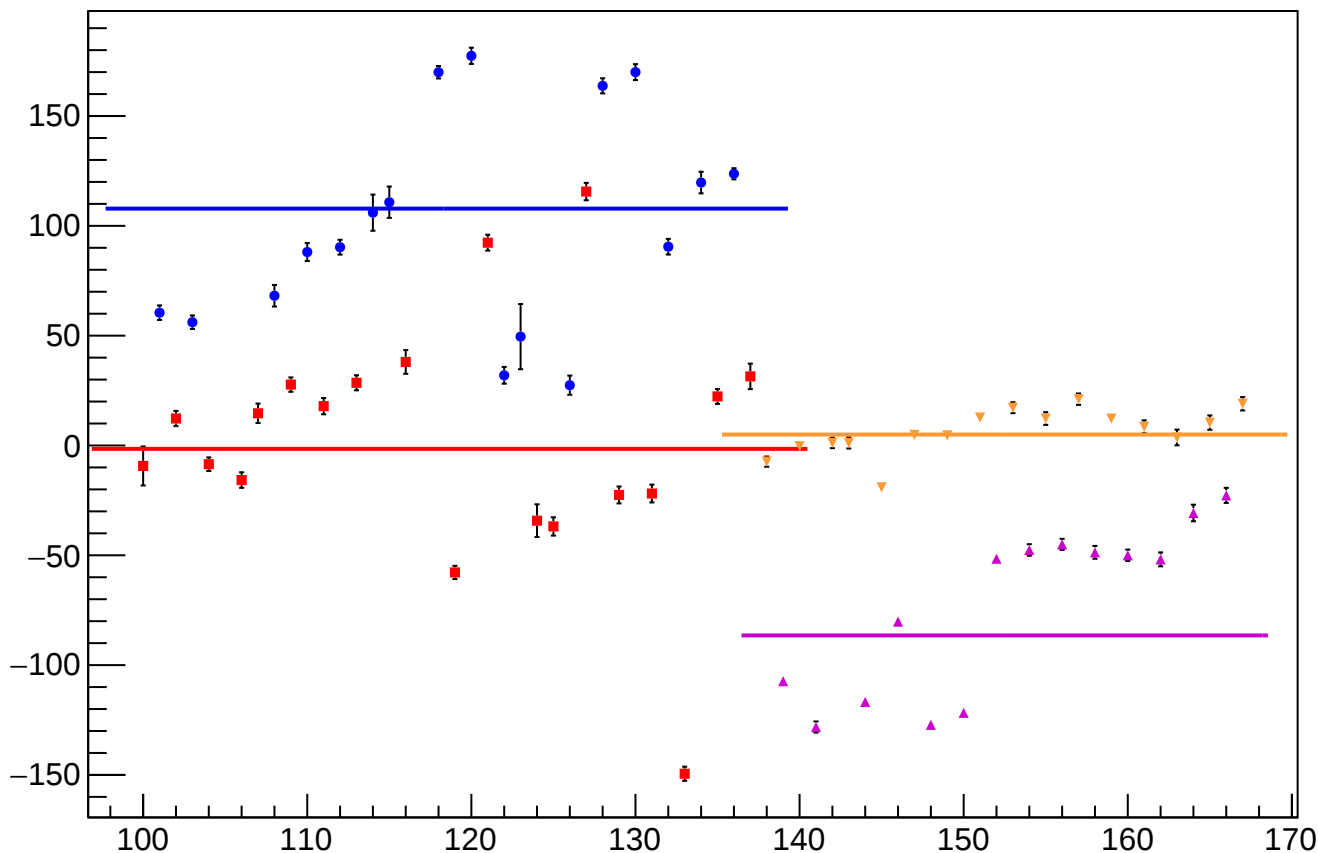
Right: 658.039 $\pm$ 0.125 χ^2/NDF : 52106.5/35

In: 756.135 $\pm$ 0.129 χ^2/NDF :856632.3/30

Out: 757.775 $\pm$ 0.124 χ^2/NDF :871122.2/34

All: 756.988 $\pm$ 0.090 χ^2/NDF : 1727838.1/65

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 4.972 ± 0.593 $\chi^2/\text{NDF}: 296.7/15$

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: -39.043 ± 0.427 $\chi^2/\text{NDF}: 15055.0/29$

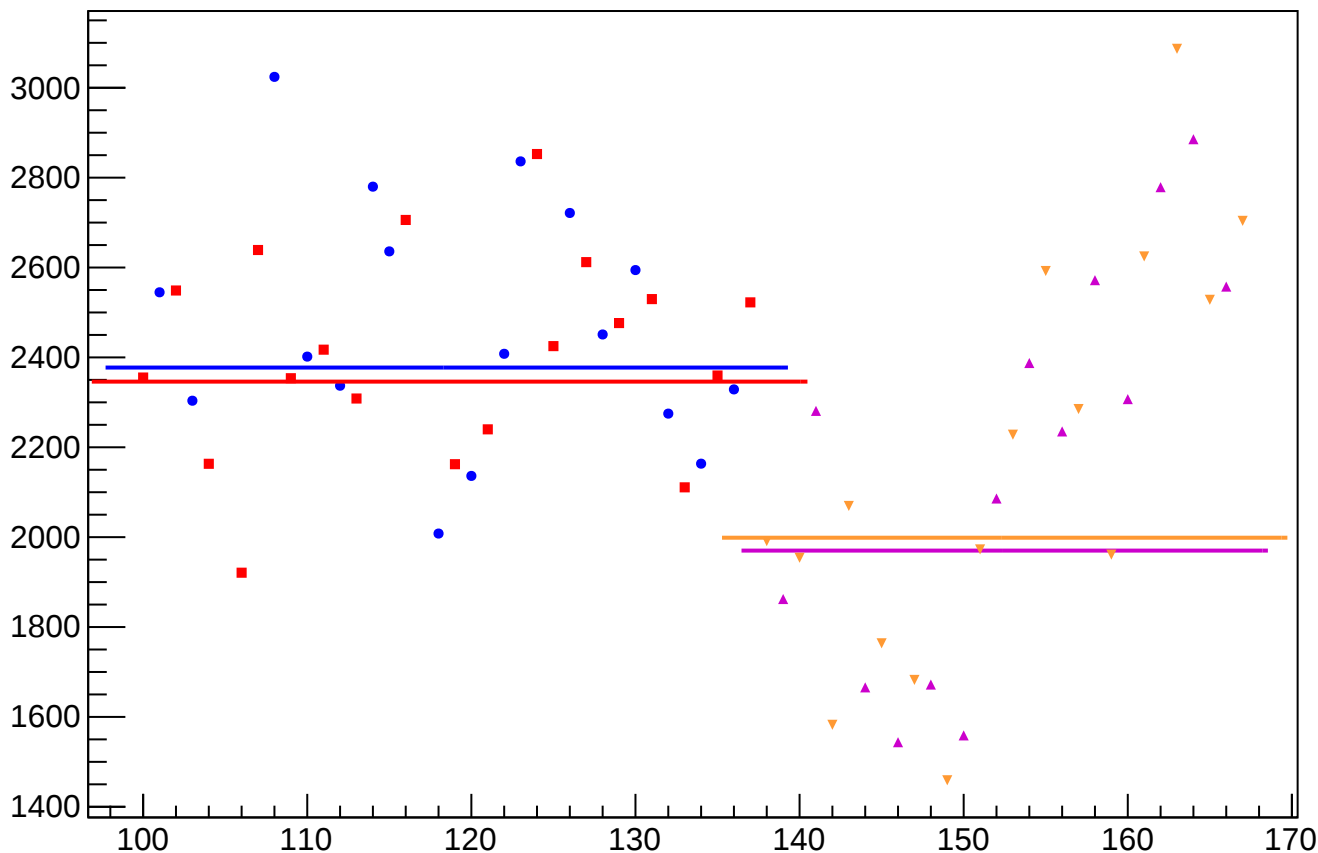
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -26.505 ± 0.512 $\chi^2/\text{NDF}: 36868.6/30$

Out: 2.948 ± 0.492 $\chi^2/\text{NDF}: 4858.0/34$

All: -11.205 ± 0.355 $\chi^2/\text{NDF}: 43445.9/65$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 1998.780+/-0.419 χ^2/NDF : 920622.4/15

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: 1984.981+/-0.302 χ^2/NDF : 1809657.2/29

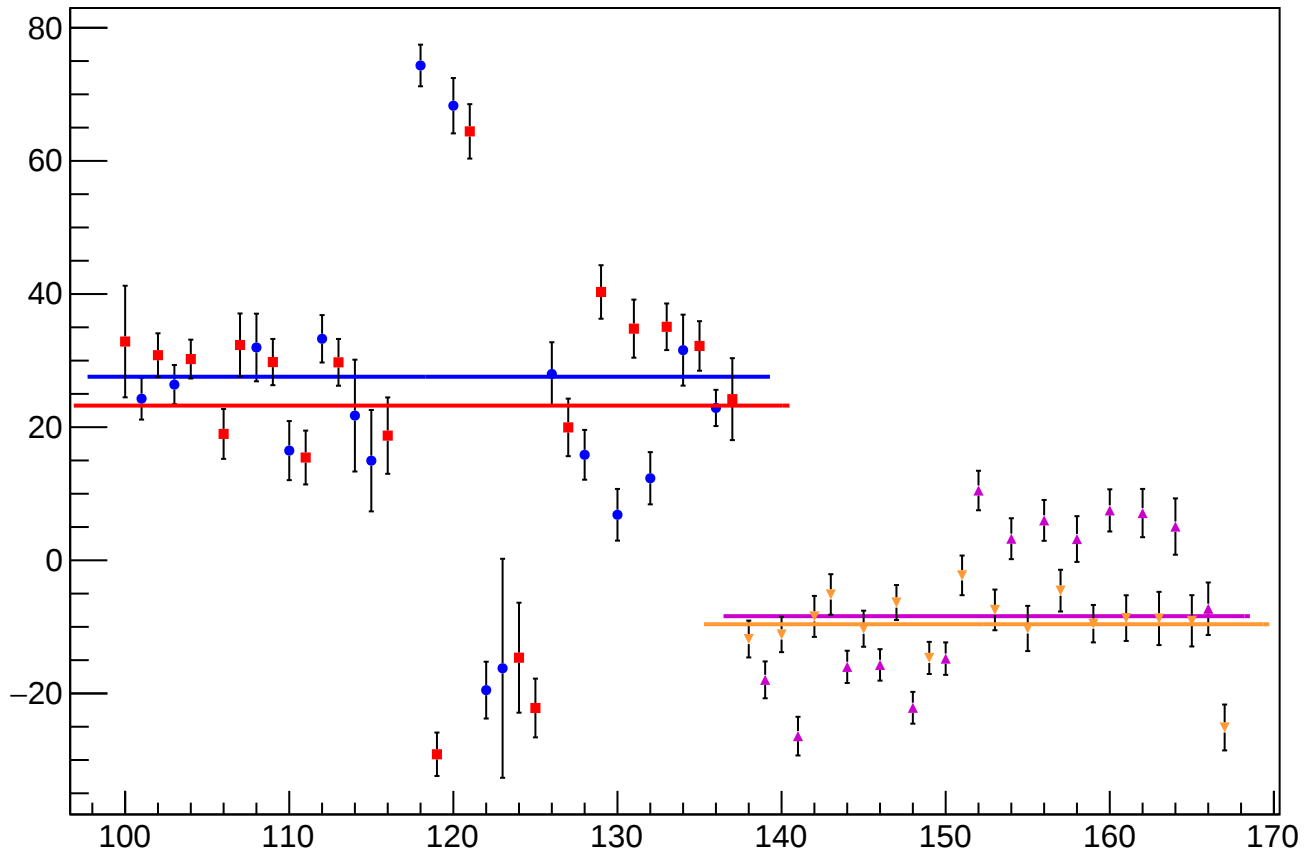
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2095.820+/-0.362 χ^2/NDF : 1276563.8/30

Out: 2106.709+/-0.348 χ^2/NDF : 1242038.9/34

All: 2101.477+/-0.251 χ^2/NDF : 2519072.7/65

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -9.605 ± 0.751 $\chi^2/\text{NDF}: 38.9/15$

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: -9.021 ± 0.541 $\chi^2/\text{NDF}: 291.7/29$

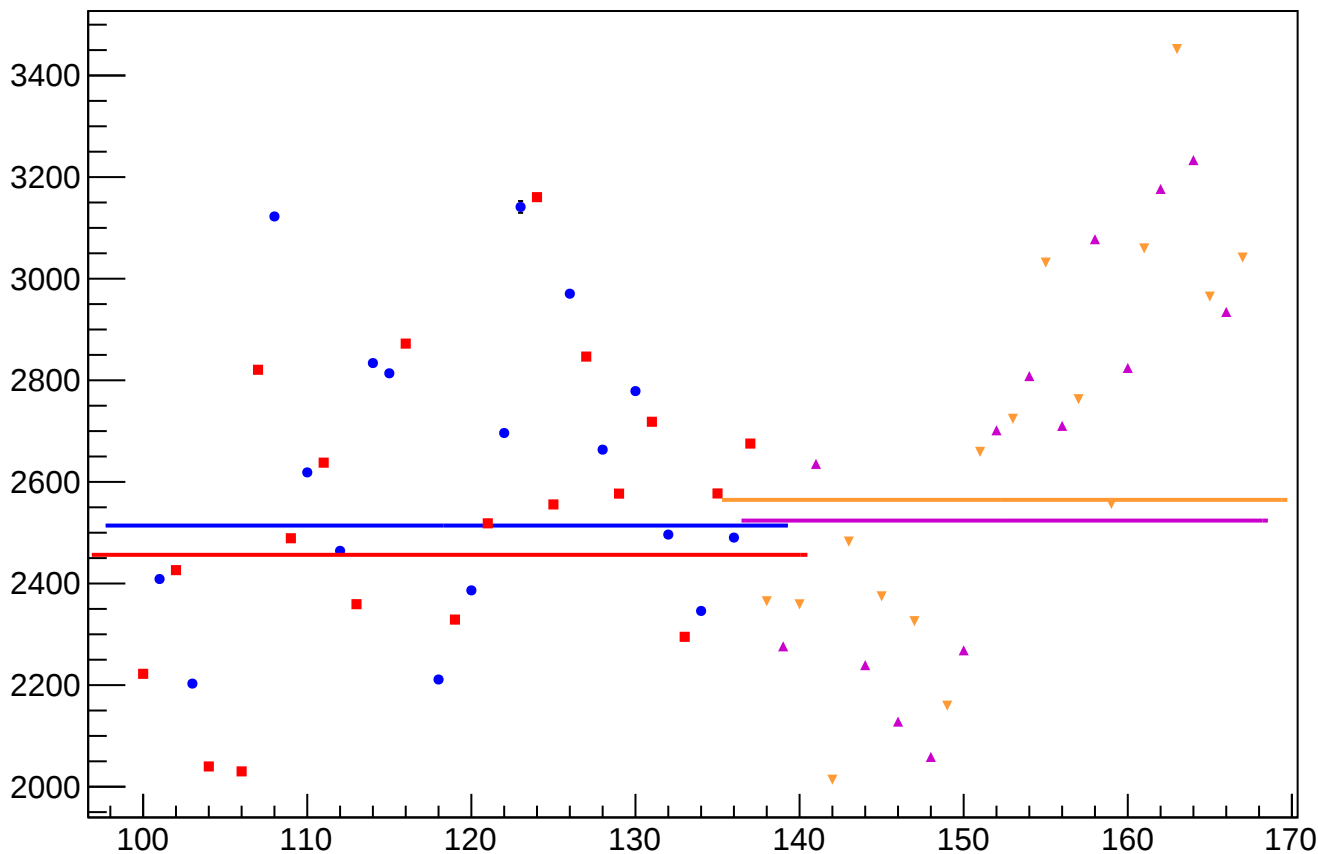
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 5.629 ± 0.609 $\chi^2/\text{NDF}: 1602.0/30$

Out: 3.415 ± 0.584 $\chi^2/\text{NDF}: 1354.7/34$

All: 4.476 ± 0.421 $\chi^2/\text{NDF}: 2963.6/65$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088+/-0.689 χ^2 /NDF: 120961.3/16

Left Out: 2564.633+/-0.531 χ^2 /NDF: 423855.9/15

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: 2545.002+/-0.382 χ^2 /NDF: 871235.2/29

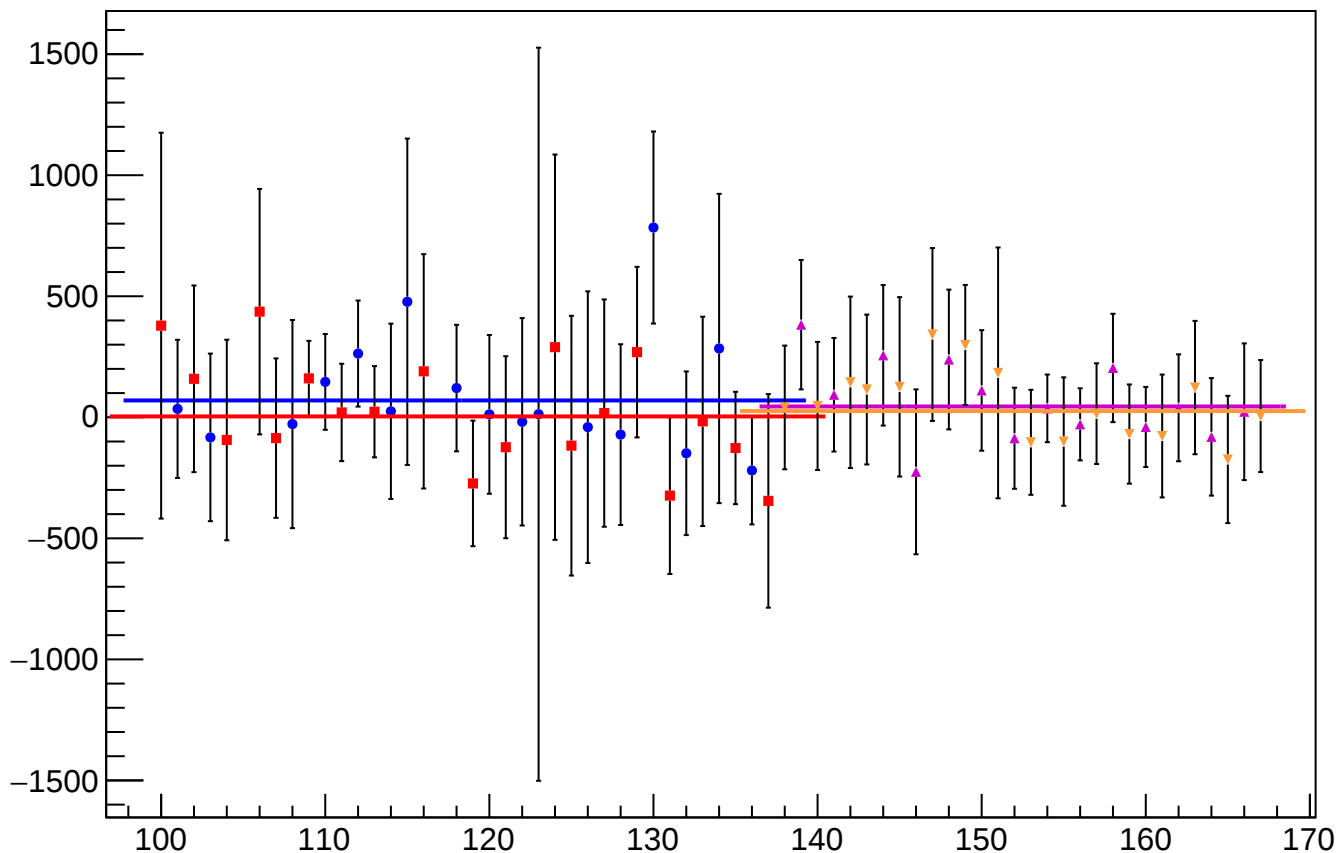
Right: 2483.827+/-0.475 χ^2 /NDF: 274364.7/35

In: 2520.065+/-0.430 χ^2 /NDF: 565628.5/30

Out: 2521.755+/-0.413 χ^2 /NDF: 590027.5/34

All: 2520.945+/-0.298 χ^2 /NDF: 1155664.1/65

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: 25.730 $\pm$ 66.318 χ^2 /NDF:4.0/15

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: 36.652 $\pm$ 43.273 χ^2 /NDF: 9.1/29

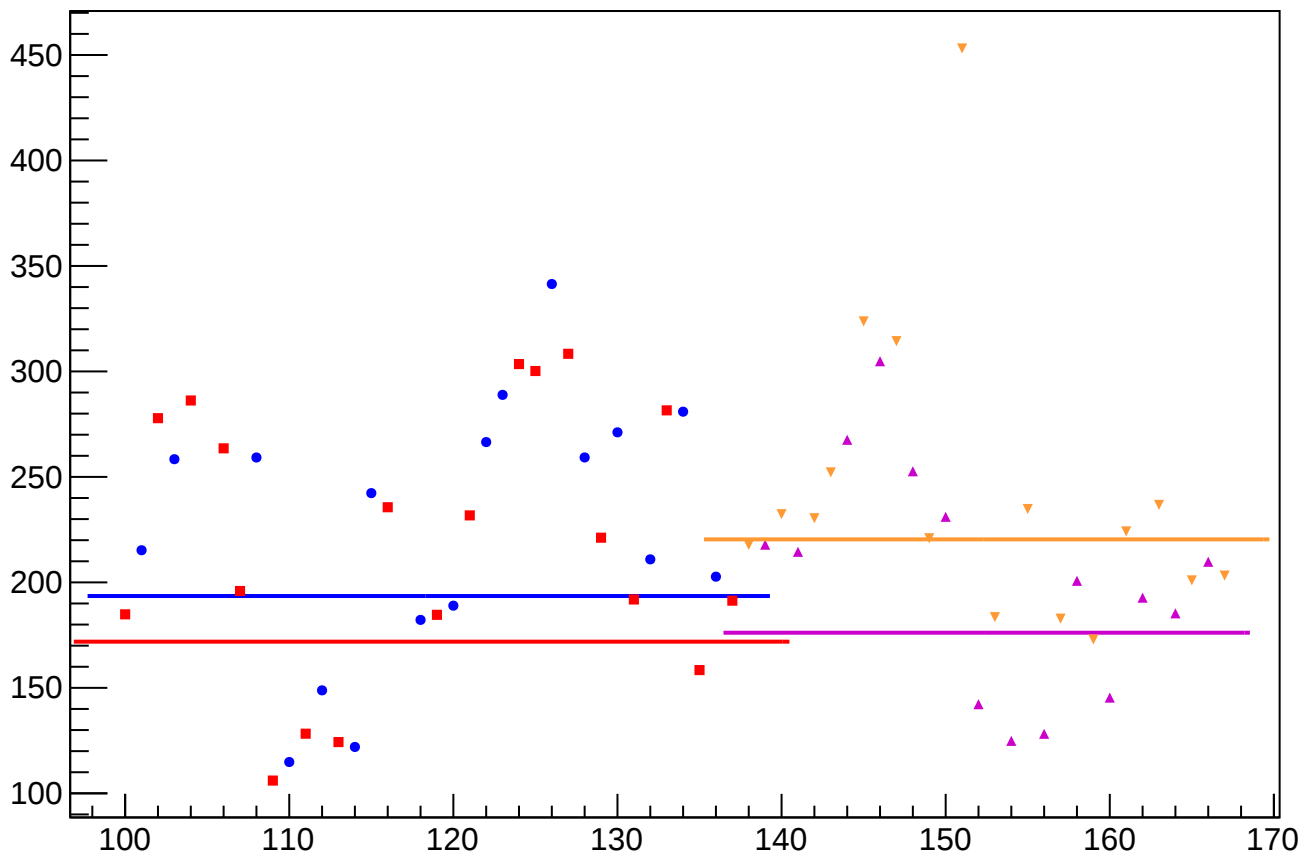
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 53.271 $\pm$ 46.285 χ^2 /NDF:12.4/30

Out: 15.241 $\pm$ 48.136 χ^2 /NDF:10.5/34

All: 35.002 $\pm$ 33.364 χ^2 /NDF: 23.2/65

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: 220.393+/-0.047 χ^2/NDF :990255.4/15

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: 194.981+/-0.031 χ^2/NDF : 2991186.8/29

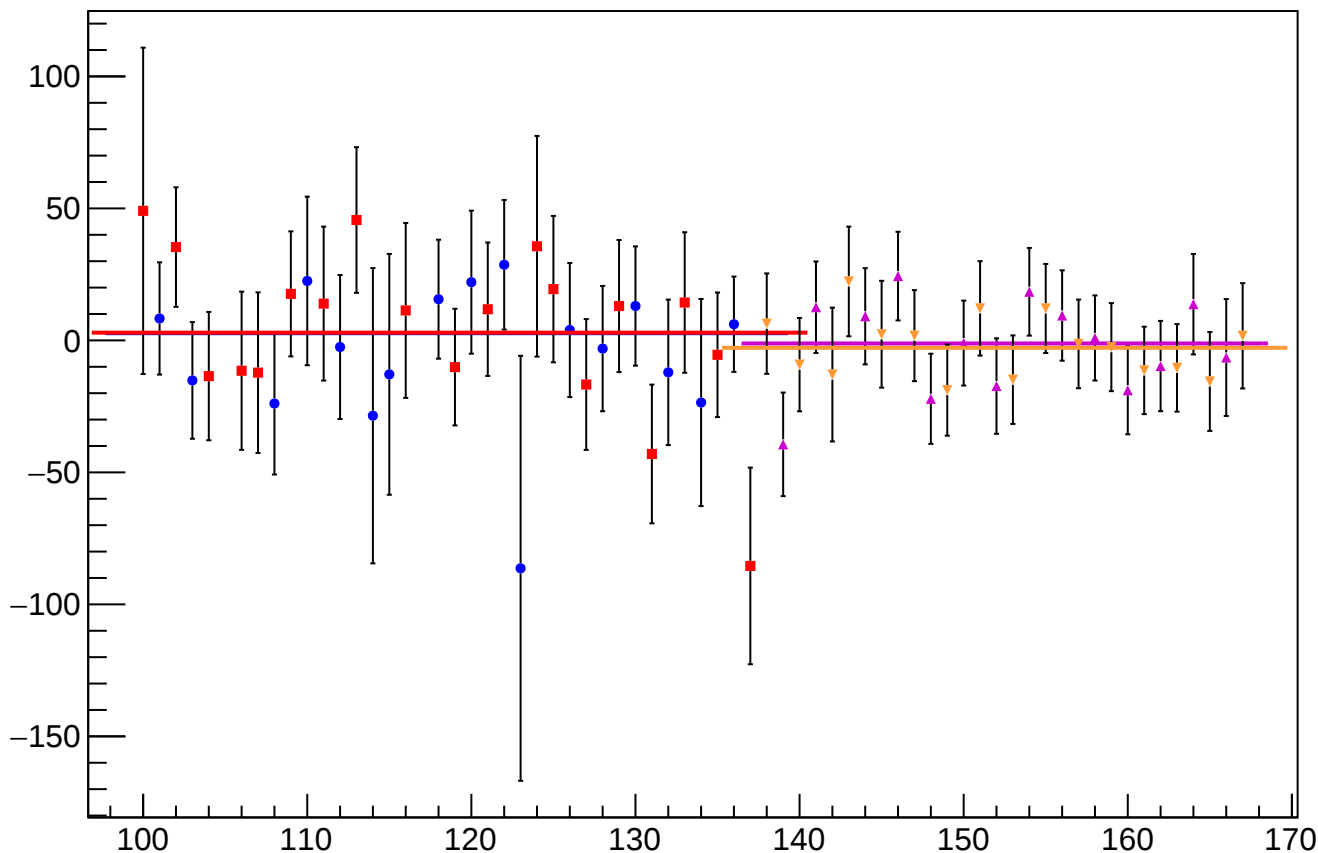
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 182.107+/-0.033 χ^2/NDF :2563634.2/30

Out: 197.449+/-0.034 χ^2/NDF :3073097.2/34

All: 189.477+/-0.024 χ^2/NDF : 5742294.6/65

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: -2.804+/-4.519 χ^2/NDF : 6.0/15

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: -2.015+/-3.253 χ^2/NDF : 19.2/29

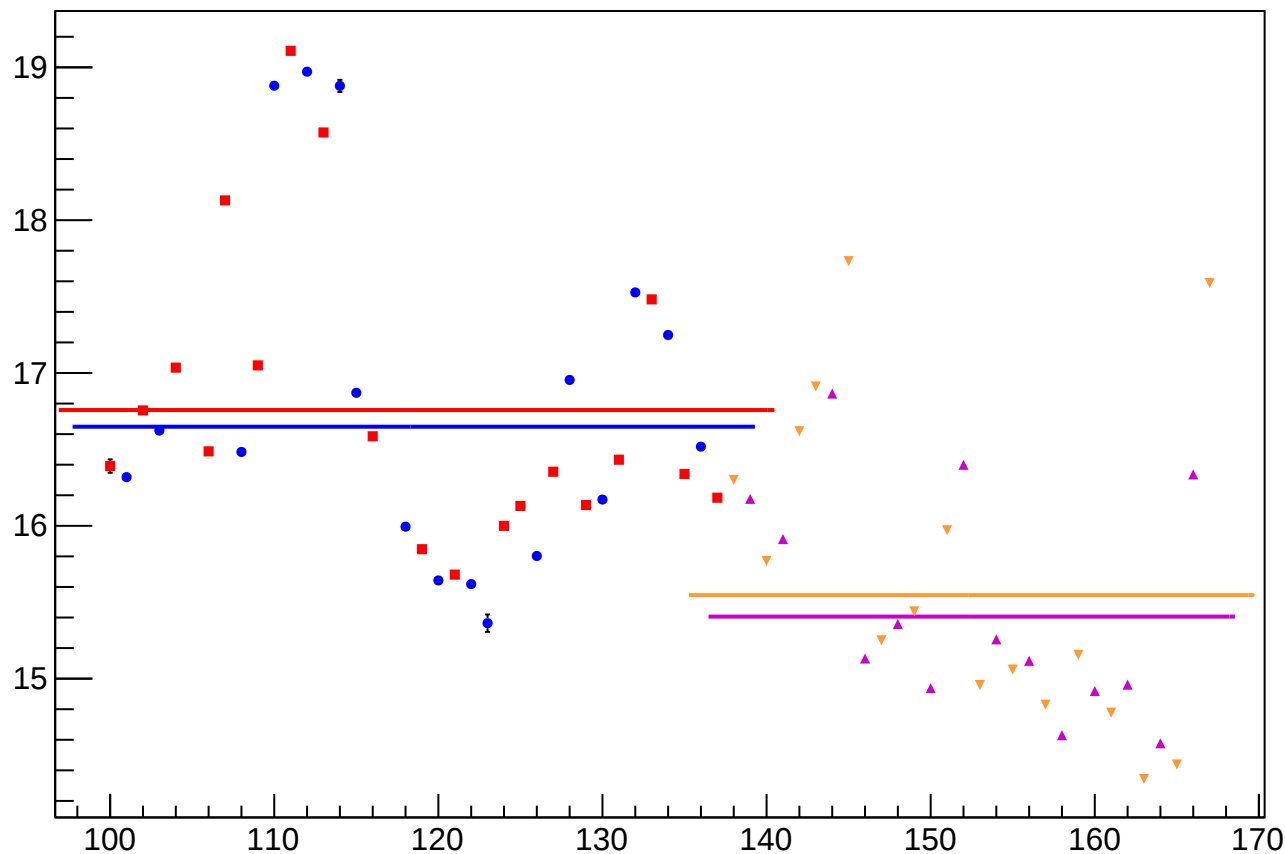
Right: 2.833+/-4.490 χ^2/NDF : 24.5/35

In: 0.188+/-3.786 χ^2/NDF : 20.2/30

Out: -0.848+/-3.668 χ^2/NDF : 24.3/34

All: -0.347+/-2.634 χ^2/NDF : 44.5/65

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: 15.547 $\pm$ 0.003 χ^2 /NDF: 92462.3/15

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: 15.479 $\pm$ 0.002 χ^2 /NDF: 135040.1/29

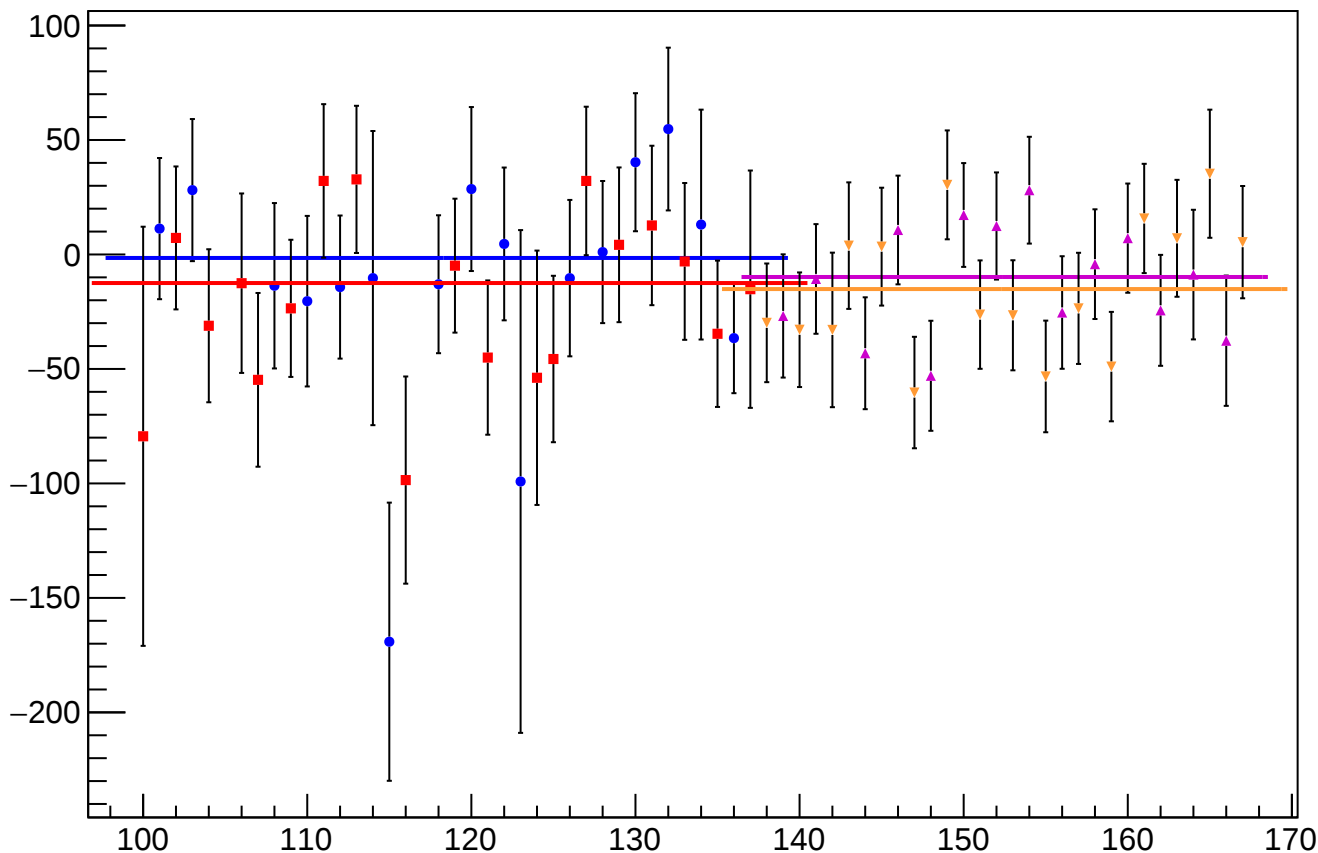
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.838 $\pm$ 0.003 χ^2 /NDF: 133043.5/30

Out: 15.960 $\pm$ 0.003 χ^2 /NDF: 181441.8/34

All: 15.901 $\pm$ 0.002 χ^2 /NDF: 315561.2/65

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: -15.108 ± 6.310 χ^2/NDF : 20.6/15

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: -12.573 ± 4.547 χ^2/NDF : 34.4/29

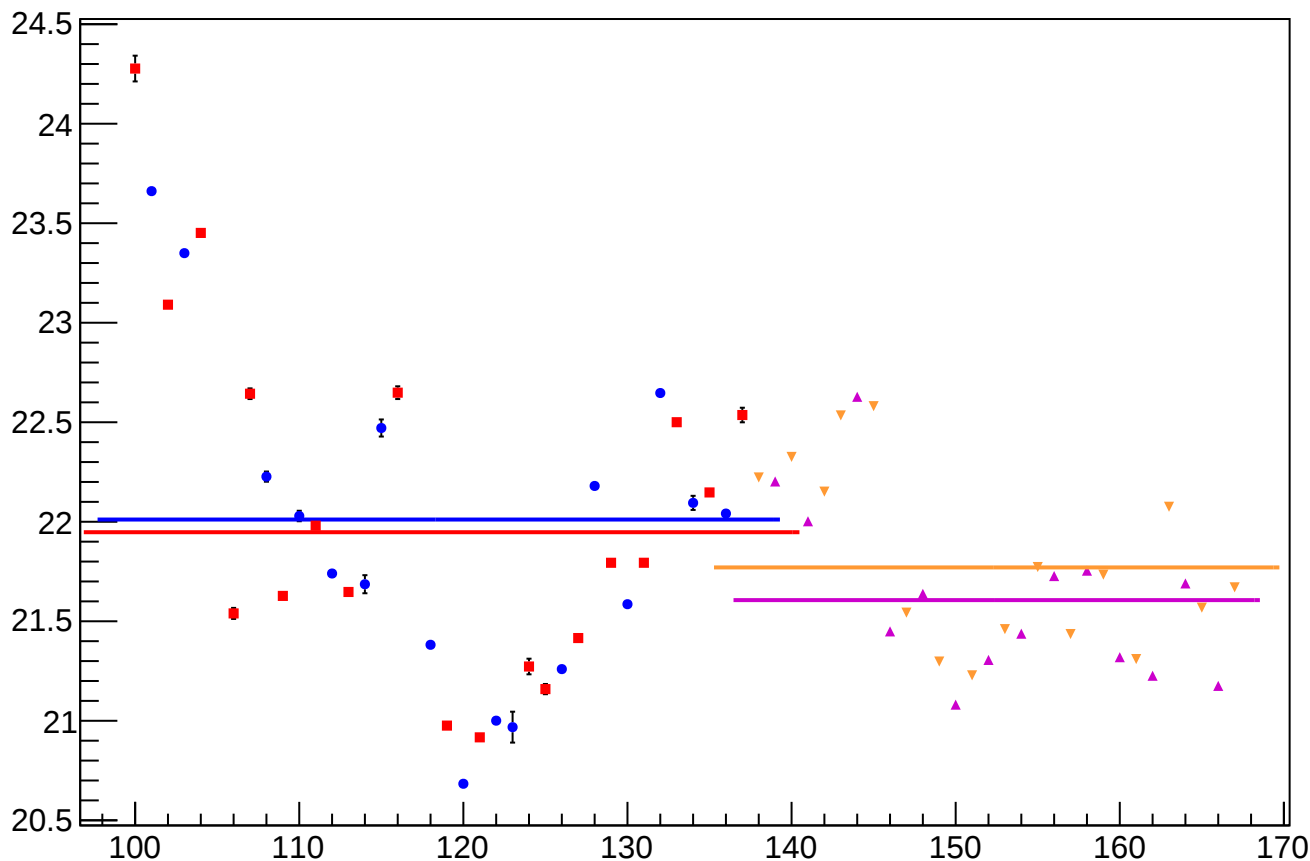
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -6.728 ± 5.188 χ^2/NDF : 31.7/30

Out: -14.130 ± 5.003 χ^2/NDF : 36.3/34

All: -10.564 ± 3.602 χ^2/NDF : 69.0/65

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: 21.771 $\pm$ 0.004 χ^2 /NDF: 9255.2/15

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: 17913.3/29

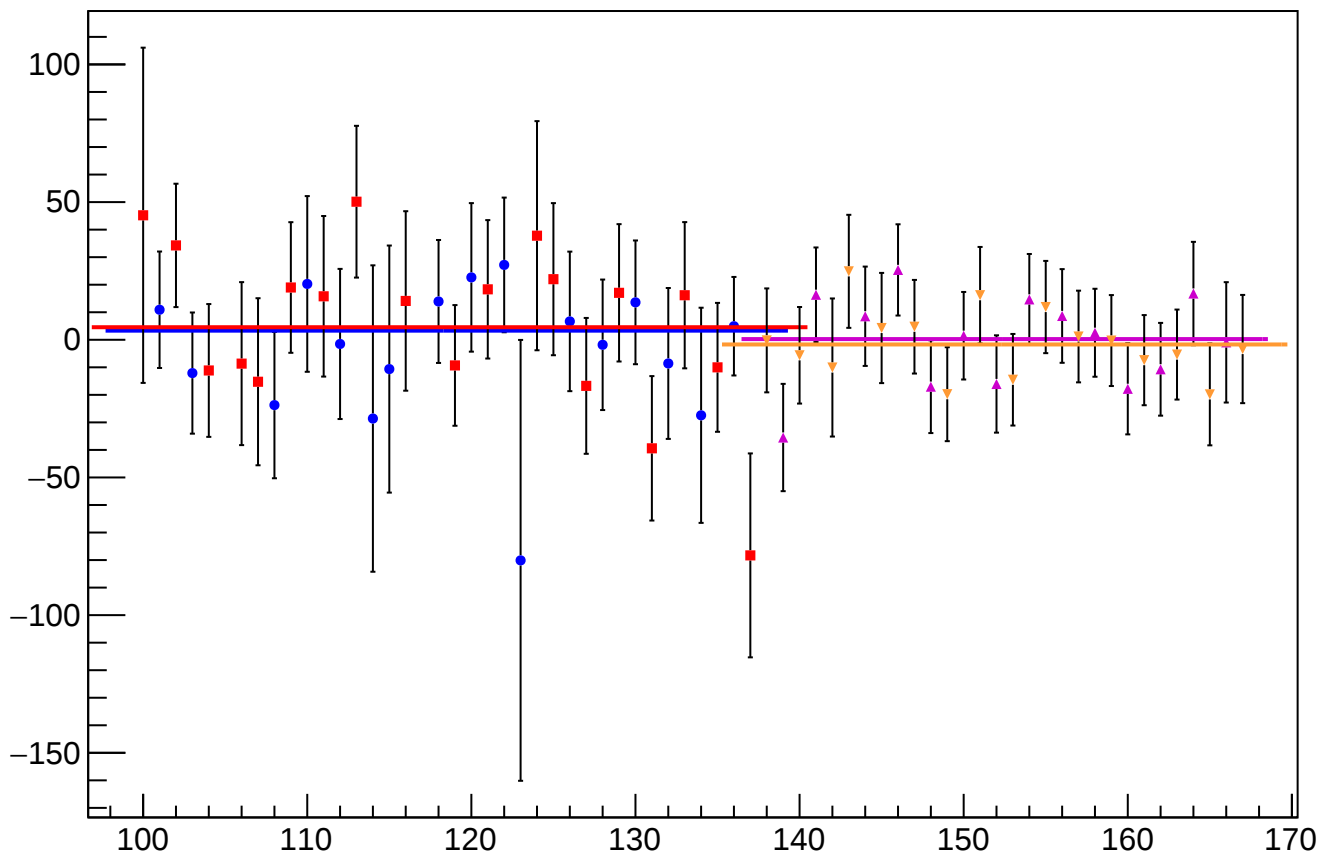
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.758 $\pm$ 0.004 χ^2 /NDF: 28404.6/30

Out: 21.836 $\pm$ 0.004 χ^2 /NDF: 26431.7/34

All: 21.798 $\pm$ 0.003 χ^2 /NDF: 55073.9/65

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317 ± 6.388 $\chi^2/\text{NDF}: 6.3/16$

Left Out: -1.700 ± 4.467 $\chi^2/\text{NDF}: 6.7/15$

Right Out: 4.561 ± 6.244 $\chi^2/\text{NDF}: 17.7/18$

Left In: 0.256 ± 4.633 $\chi^2/\text{NDF}: 12.1/13$

Left: -0.758 ± 3.216 $\chi^2/\text{NDF}: 18.8/29$

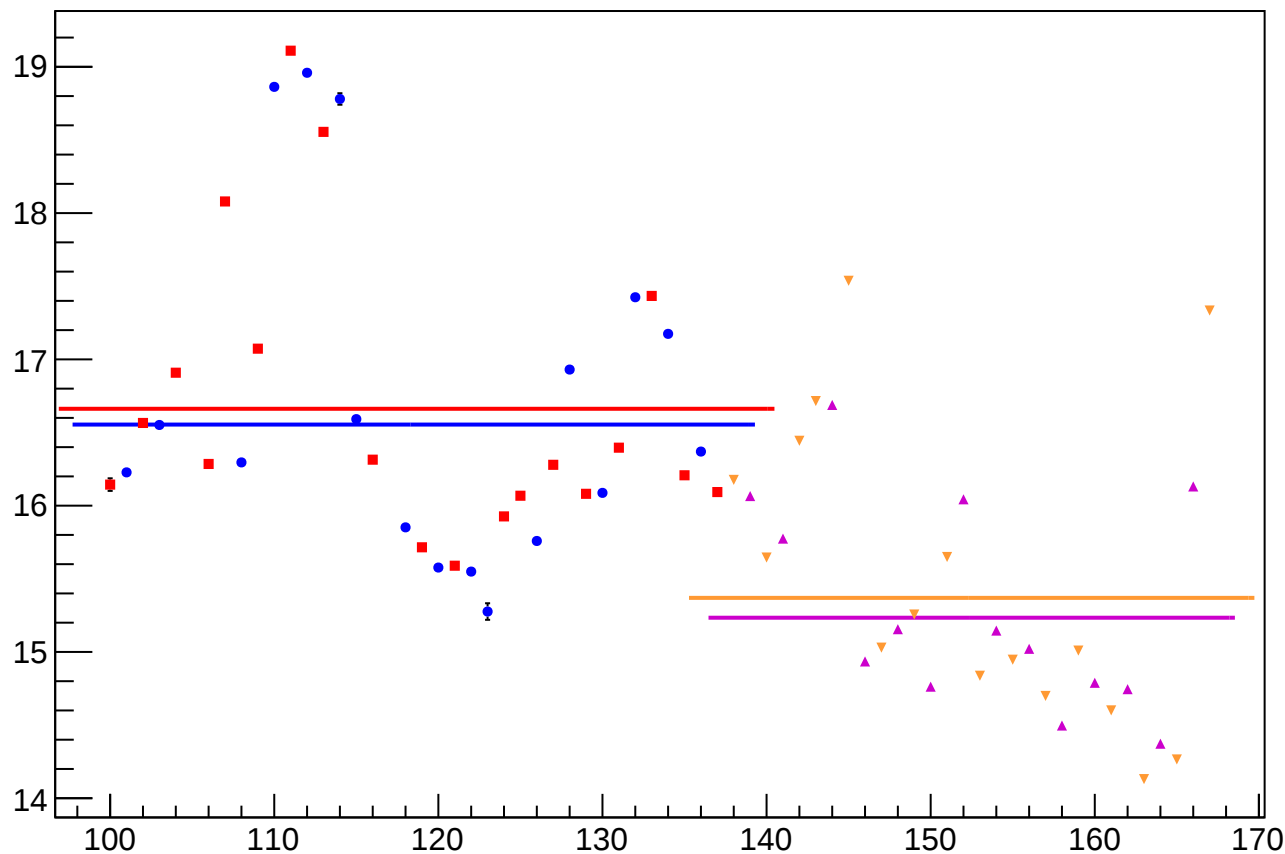
Right: 3.953 ± 4.465 $\chi^2/\text{NDF}: 24.0/35$

In: 1.311 ± 3.751 $\chi^2/\text{NDF}: 18.5/30$

Out: 0.420 ± 3.633 $\chi^2/\text{NDF}: 25.1/34$

All: 0.851 ± 2.610 $\chi^2/\text{NDF}: 43.6/65$

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: 15.370 $\pm$ 0.003 χ^2 /NDF: 91801.6/15

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: 15.304 $\pm$ 0.002 χ^2 /NDF: 133312.9/29

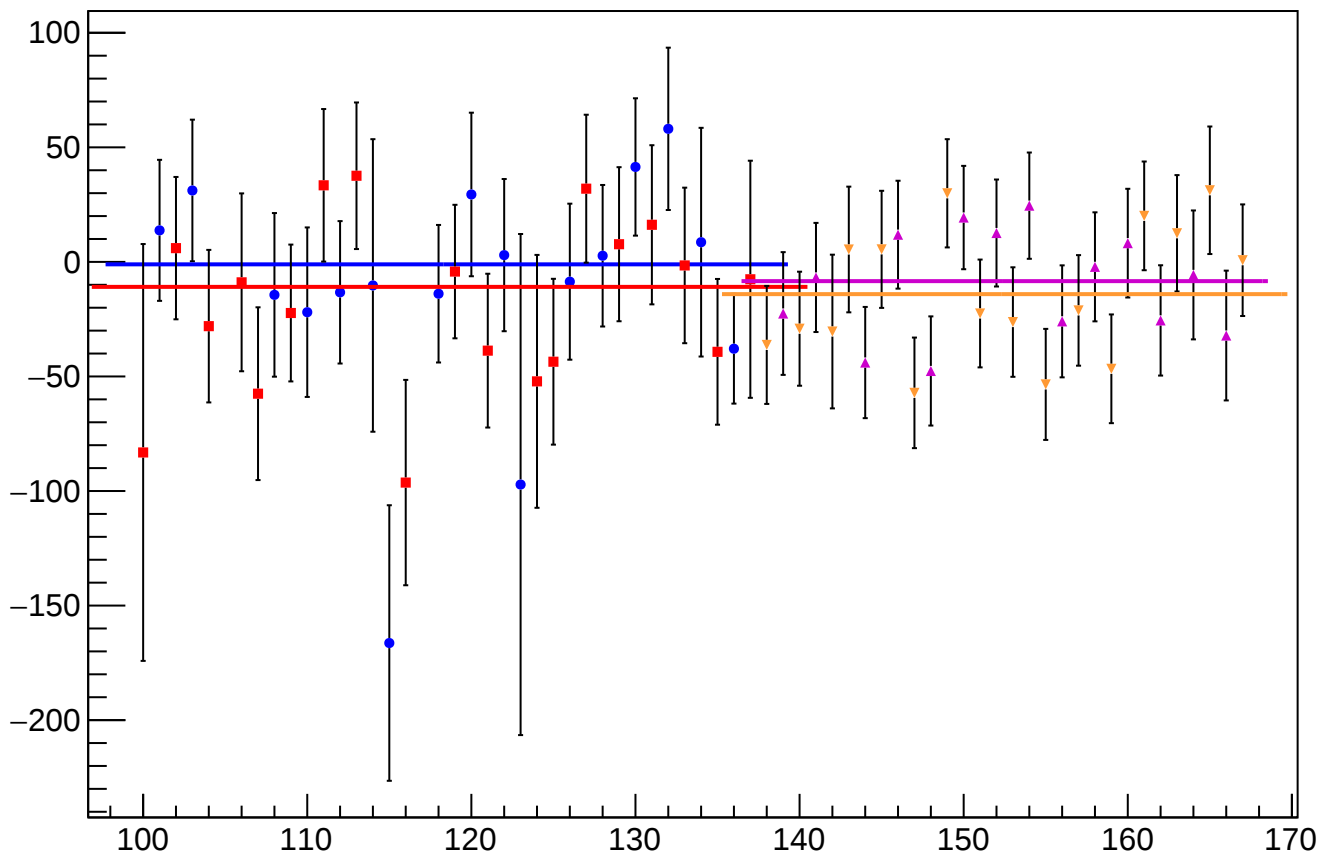
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.689 $\pm$ 0.003 χ^2 /NDF: 141087.1/30

Out: 15.807 $\pm$ 0.003 χ^2 /NDF: 191566.1/34

All: 15.750 $\pm$ 0.002 χ^2 /NDF: 333677.9/65

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: -14.068 ± 6.270 χ^2/NDF : 20.3/15

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: -11.343 ± 4.519 χ^2/NDF : 33.2/29

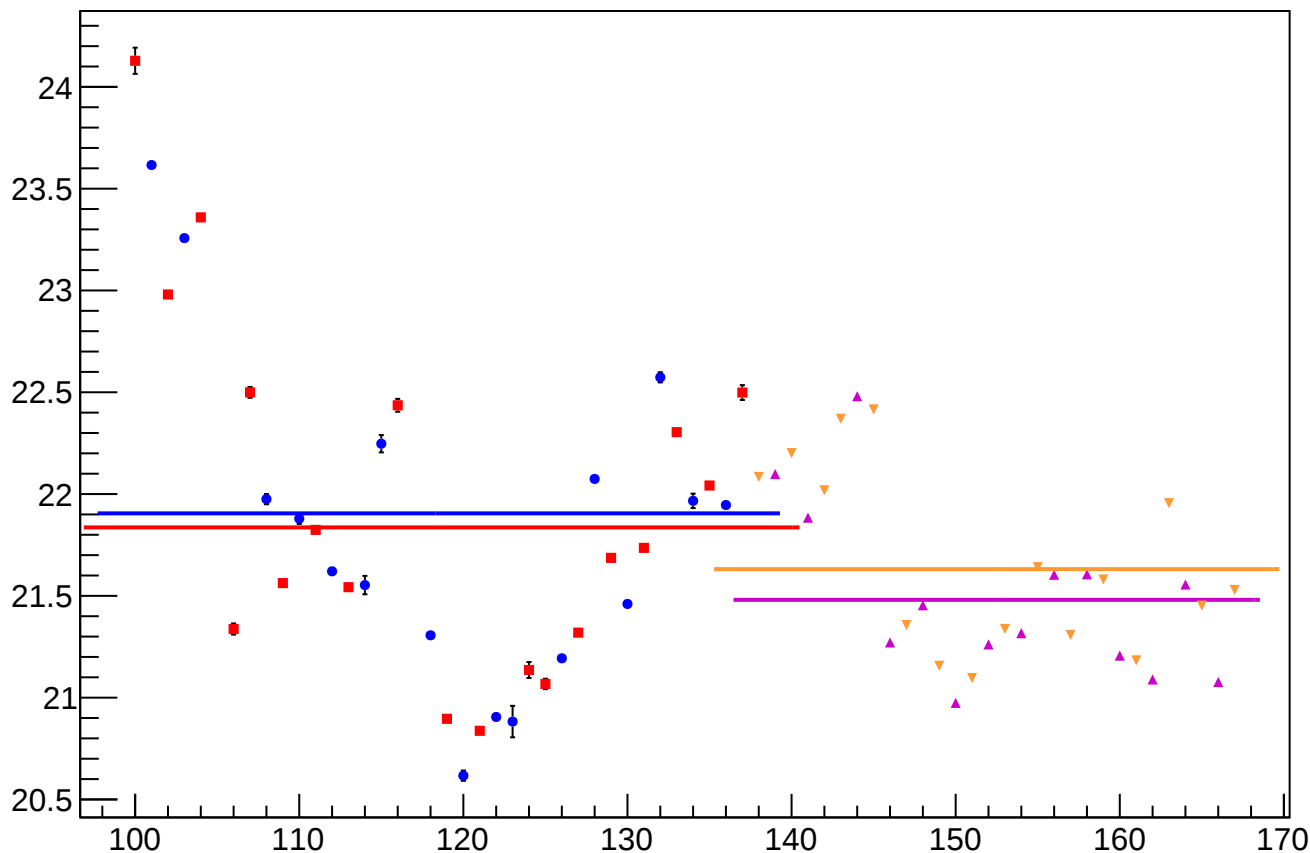
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -5.660 ± 5.160 χ^2/NDF : 31.4/30

Out: -12.894 ± 4.974 χ^2/NDF : 36.6/34

All: -9.410 ± 3.581 χ^2/NDF : 69.1/65

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: 21.631 $\pm$ 0.004 χ^2 /NDF: 9195.5/15

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: 21.559 $\pm$ 0.003 χ^2 /NDF: 17548.0/29

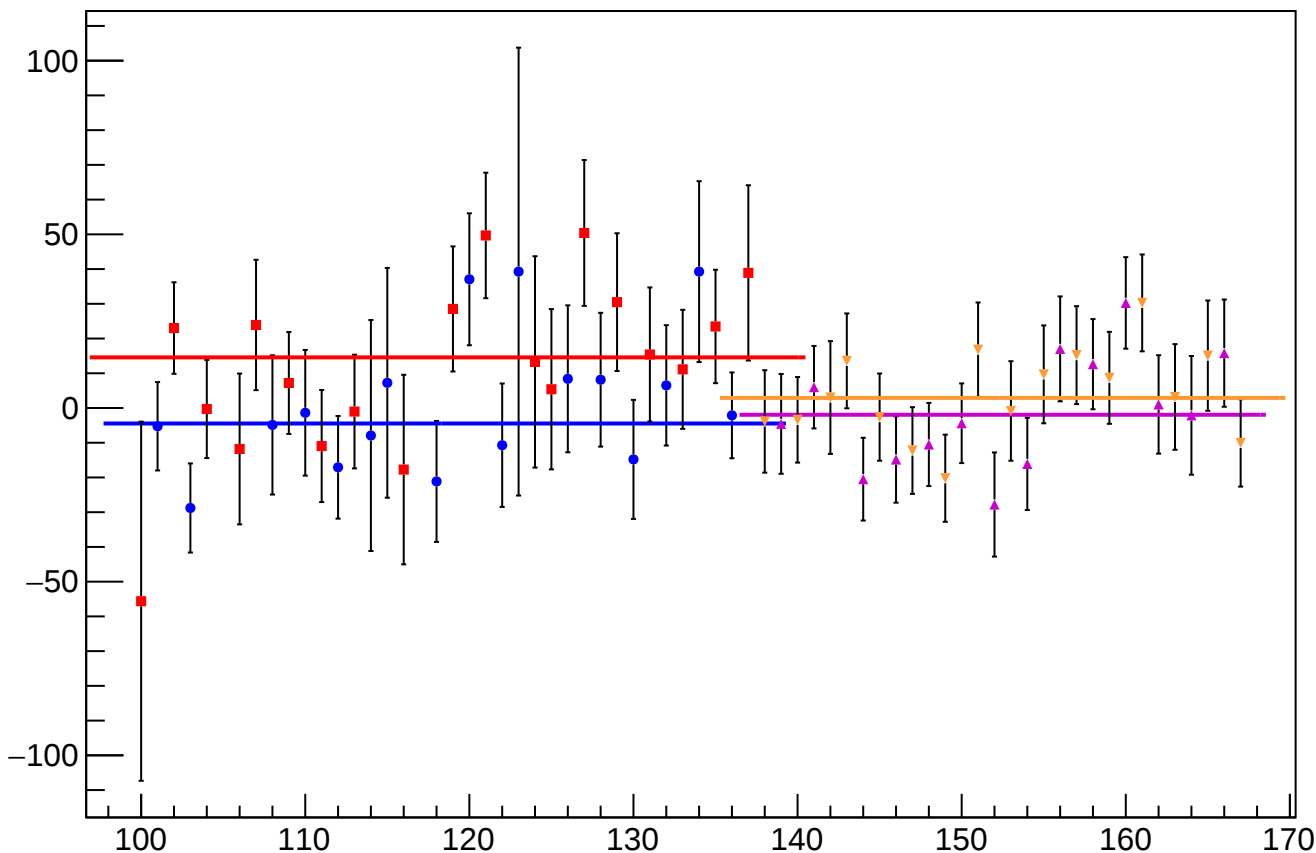
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.639 $\pm$ 0.004 χ^2 /NDF: 28760.5/30

Out: 21.707 $\pm$ 0.004 χ^2 /NDF: 26239.0/34

All: 21.674 $\pm$ 0.003 χ^2 /NDF: 55180.1/65

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 2.903 ± 3.424 $\chi^2/\text{NDF}: 13.9/15$

Right Out: 14.579 ± 4.264 $\chi^2/\text{NDF}: 19.5/18$

Left In: -1.948 ± 3.561 $\chi^2/\text{NDF}: 18.8/13$

Left: 0.573 ± 2.468 $\chi^2/\text{NDF}: 33.7/29$

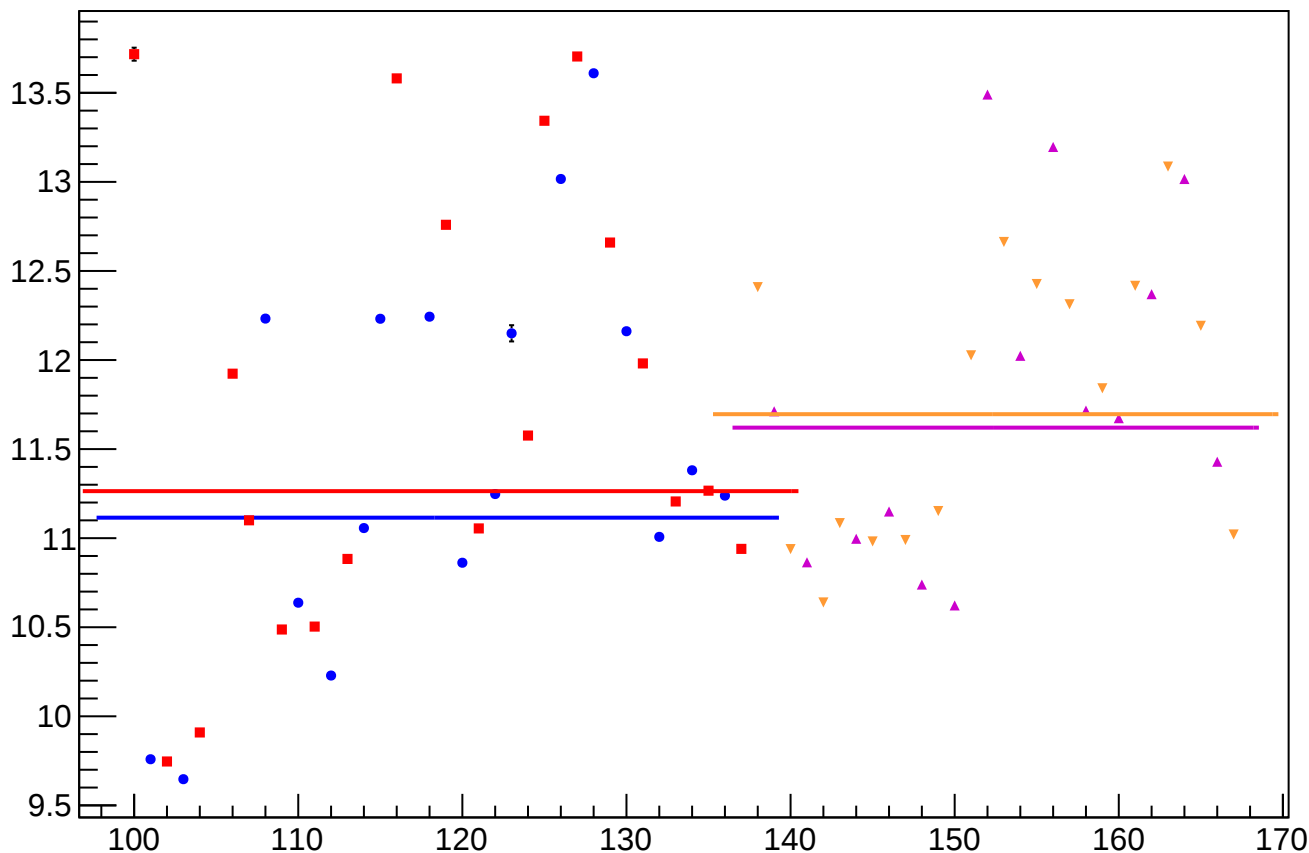
Right: 5.202 ± 3.038 $\chi^2/\text{NDF}: 44.5/35$

In: -2.962 ± 2.750 $\chi^2/\text{NDF}: 34.2/30$

Out: 7.480 ± 2.670 $\chi^2/\text{NDF}: 38.0/34$

All: 2.414 ± 1.916 $\chi^2/\text{NDF}: 79.6/65$

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: 11.696 $\pm$ 0.002 χ^2 /NDF: 90872.0/15

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: 11.660 $\pm$ 0.002 χ^2 /NDF: 207979.6/29

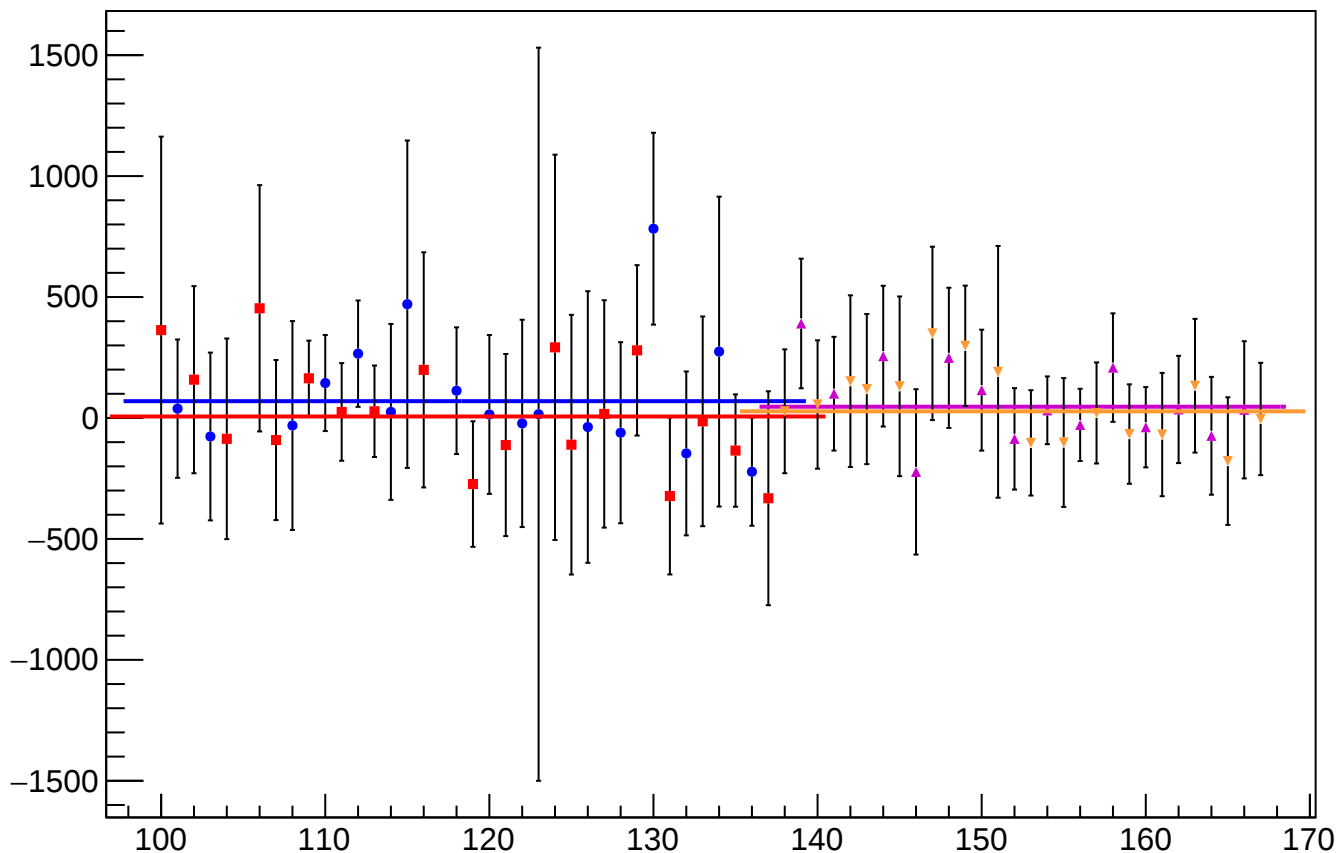
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.416 $\pm$ 0.002 χ^2 /NDF: 265955.3/30

Out: 11.527 $\pm$ 0.002 χ^2 /NDF: 250837.7/34

All: 11.473 $\pm$ 0.001 χ^2 /NDF: 518446.2/65

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: 27.483 $\pm$ 66.550 χ^2 /NDF:4.1/15

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: 38.440 $\pm$ 43.423 χ^2 /NDF: 9.3/29

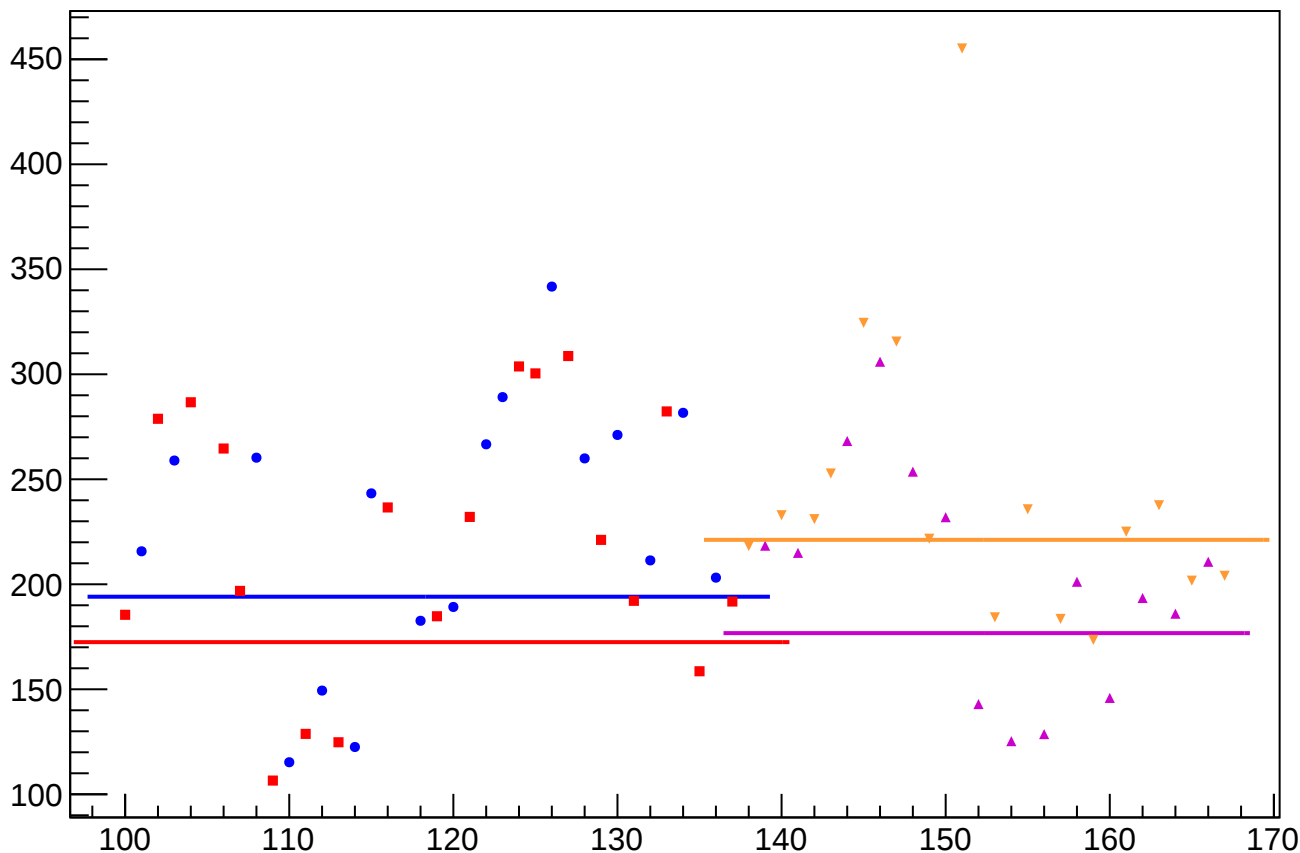
Right: 34.014 $\pm$ 52.536 χ^2 /NDF: 14.1/35

In: 54.430 $\pm$ 46.431 χ^2 /NDF:12.4/30

Out: 17.404 $\pm$ 48.291 χ^2 /NDF:10.6/34

All: 36.644 $\pm$ 33.470 χ^2 /NDF: 23.4/65

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082+/-0.056 χ^2/NDF : 1005395.7/16

Left Out: 221.166+/-0.047 χ^2/NDF : 989312.3/15

Right Out: 172.452+/-0.050 χ^2/NDF : 1569463.1/18

Left In: 176.749+/-0.041 χ^2/NDF : 1487672.6/13

Left: 195.659+/-0.031 χ^2/NDF : 2988614.1/29

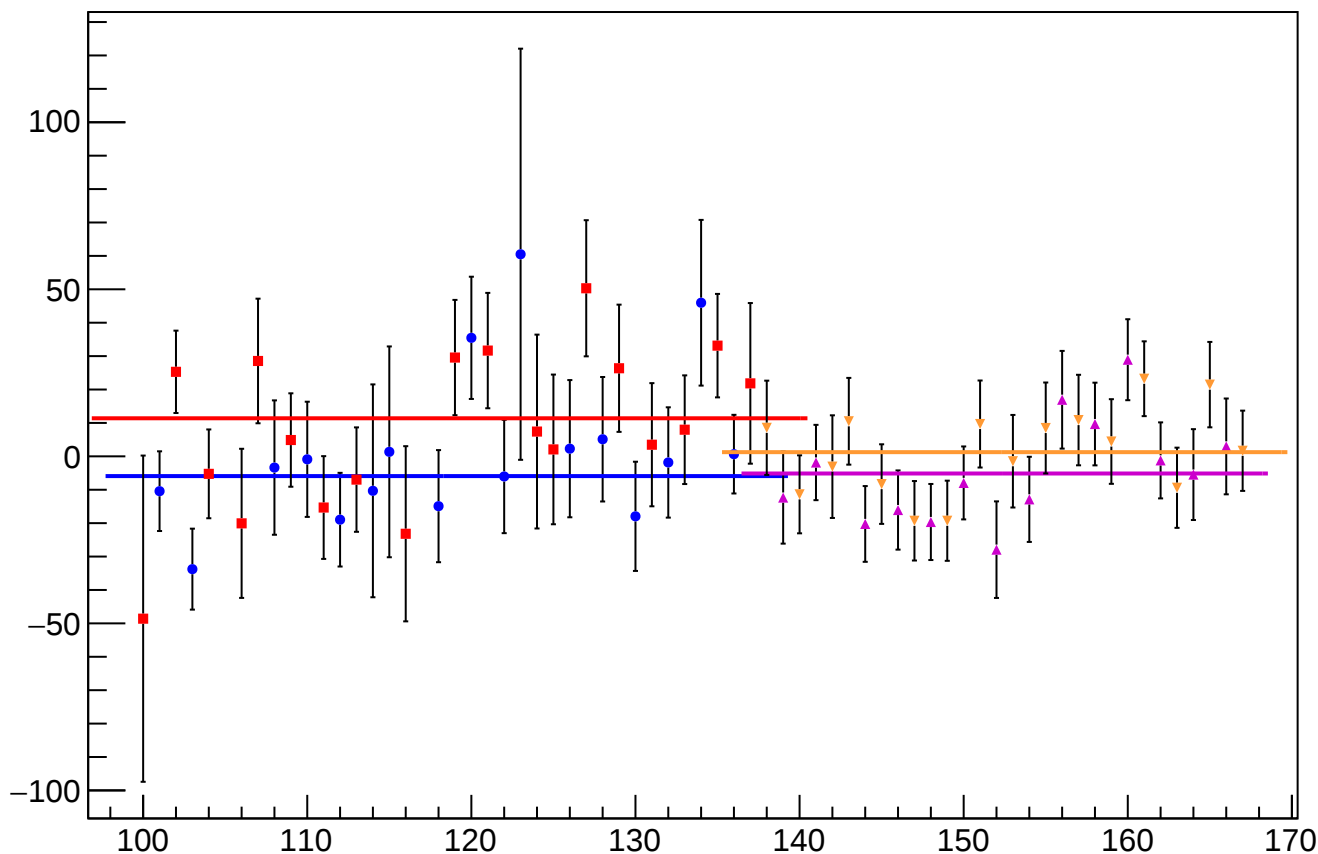
Right: 181.961+/-0.037 χ^2/NDF : 2658380.0/35

In: 182.701+/-0.033 χ^2/NDF : 2555913.3/30

Out: 198.102+/-0.034 χ^2/NDF : 3066145.5/34

All: 190.099+/-0.024 χ^2/NDF : 5727765.5/65

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: 1.252 ± 3.166 χ^2/NDF : 17.0/15

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: -1.797 ± 2.289 χ^2/NDF : 38.6/29

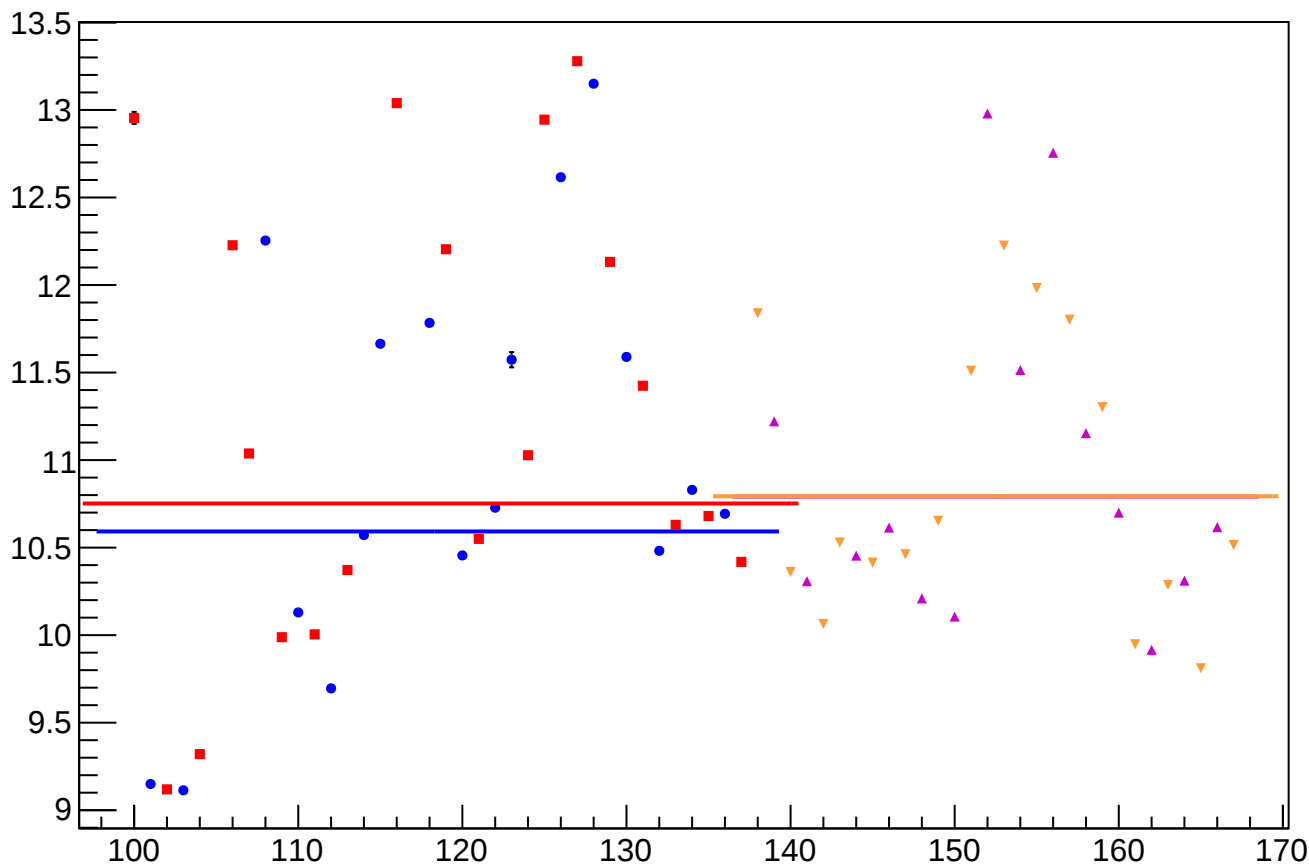
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.440 ± 2.585 χ^2/NDF : 38.4/30

Out: 5.065 ± 2.501 χ^2/NDF : 43.7/34

All: -0.014 ± 1.798 χ^2/NDF : 90.7/65

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: 10.793 $\pm$ 0.002 χ^2 /NDF: 107786.2/15

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: 10.792 $\pm$ 0.002 χ^2 /NDF: 233543.5/29

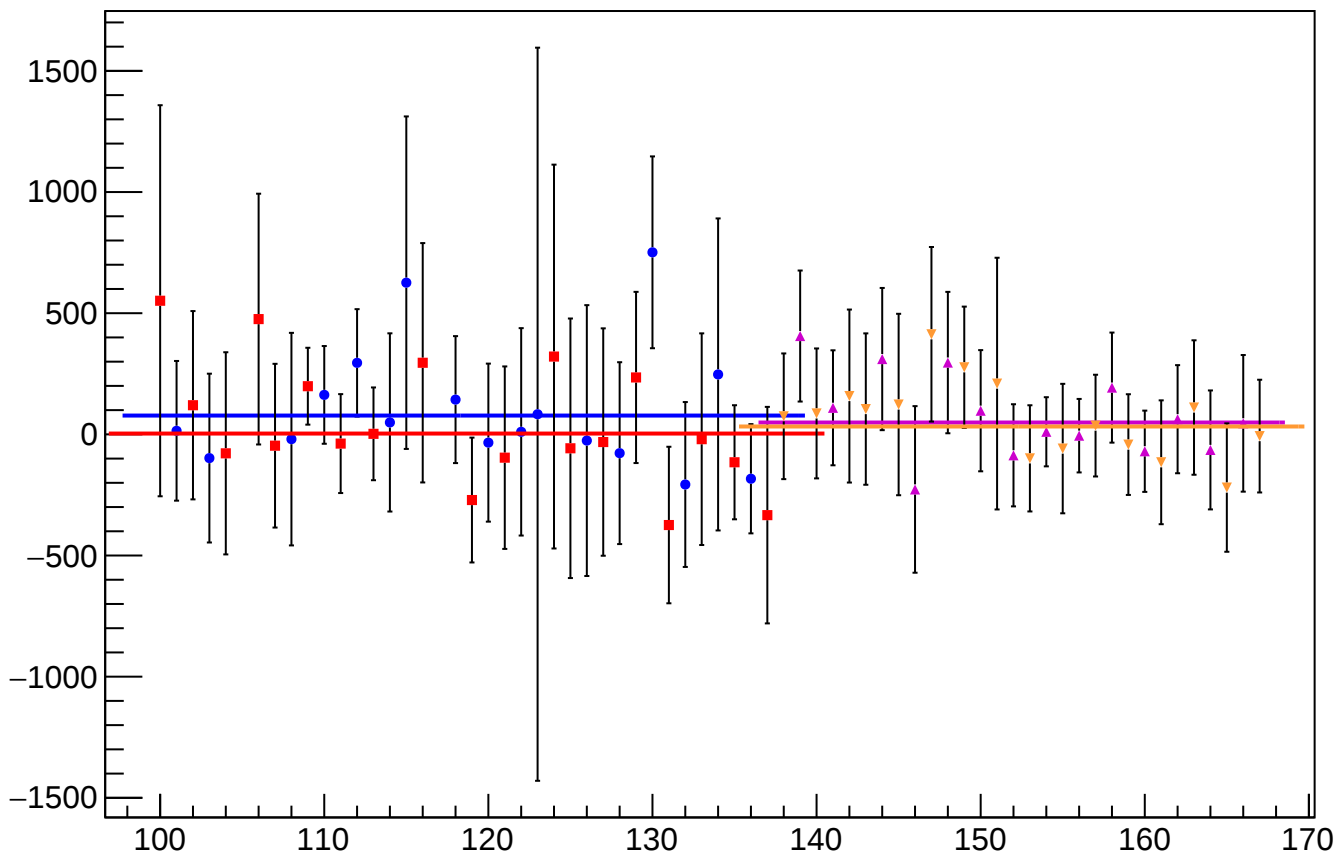
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.713 $\pm$ 0.002 χ^2 /NDF: 288981.7/30

Out: 10.778 $\pm$ 0.002 χ^2 /NDF: 284809.1/34

All: 10.747 $\pm$ 0.001 χ^2 /NDF: 574428.8/65

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: 32.441 $\pm$ 66.953 χ^2 /NDF:4.4/15

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: 41.834 $\pm$ 43.784 χ^2 /NDF: 10.2/29

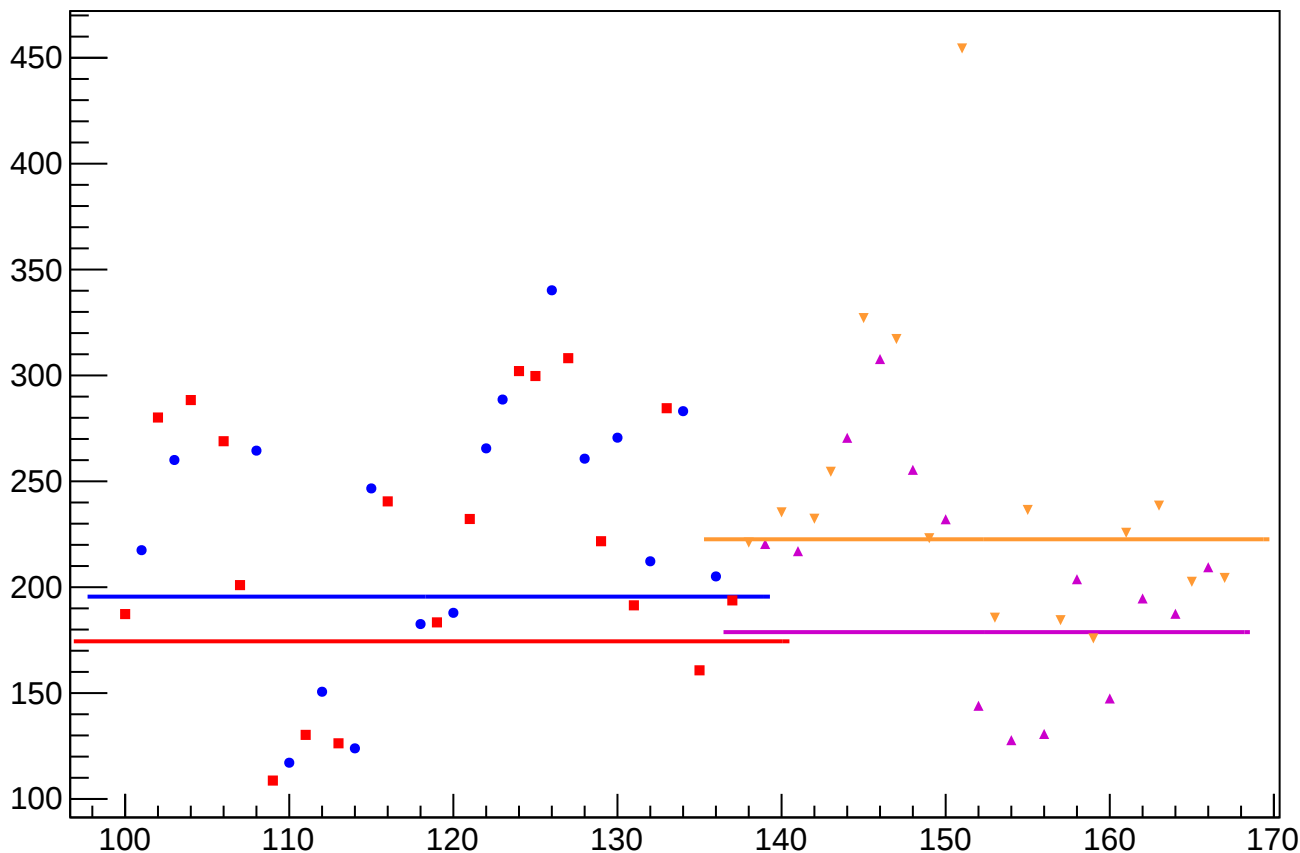
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 58.765 $\pm$ 46.840 χ^2 /NDF:13.4/30

Out: 18.698 $\pm$ 48.664 χ^2 /NDF:11.9/34

All: 39.496 $\pm$ 33.747 χ^2 /NDF: 25.6/65

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551 $\pm$ 0.056 χ^2 /NDF: 979937.7/16

Left Out: 222.630 $\pm$ 0.047 χ^2 /NDF: 979519.5/15

Right Out: 174.449 $\pm$ 0.050 χ^2 /NDF: 1528629.1/18

Left In: 178.788 $\pm$ 0.041 χ^2 /NDF: 1446620.0/13

Left: 197.537 $\pm$ 0.031 χ^2 /NDF: 2916969.7/29

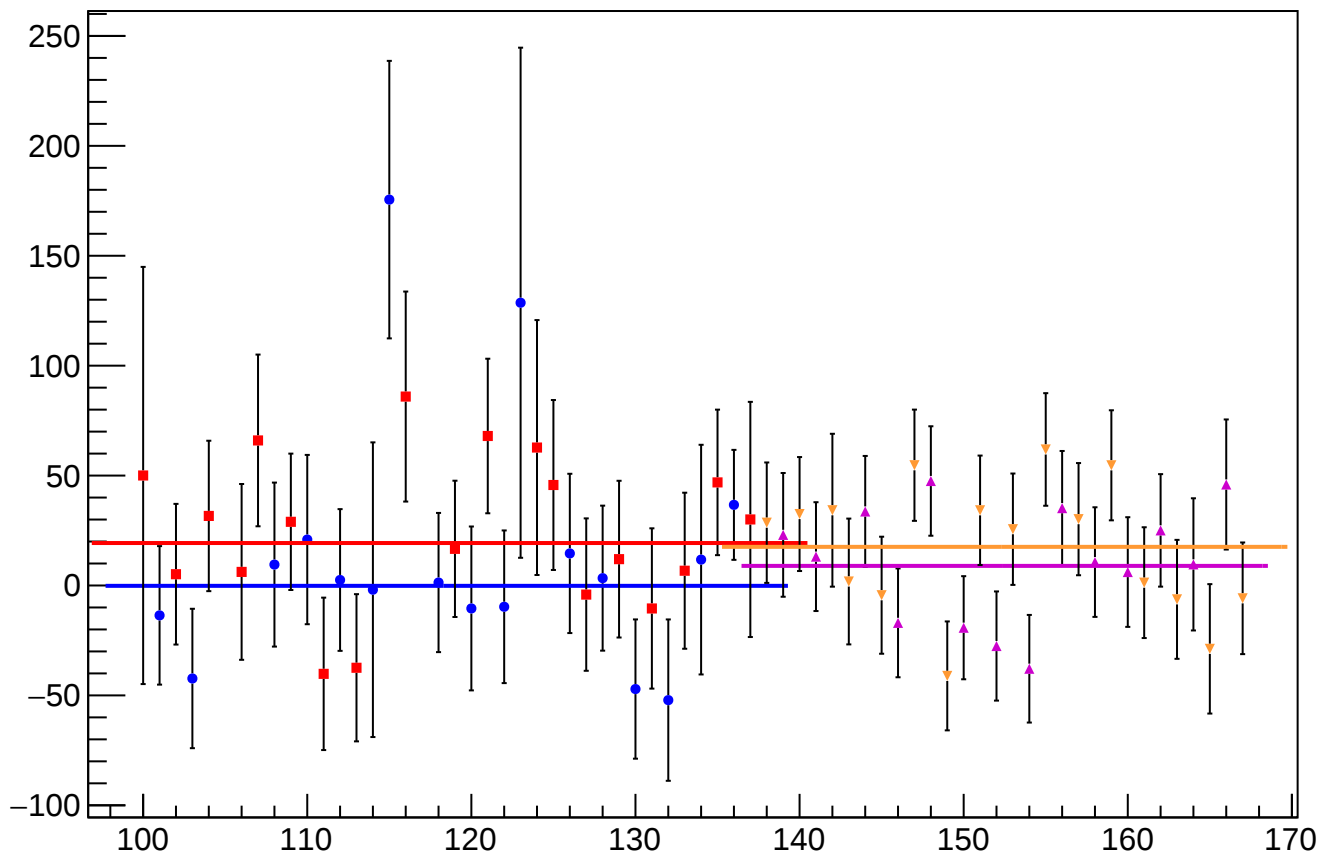
Right: 183.758 $\pm$ 0.037 χ^2 /NDF: 2586820.6/35

In: 184.571 $\pm$ 0.033 χ^2 /NDF: 2484436.8/30

Out: 199.903 $\pm$ 0.034 χ^2 /NDF: 2996703.0/34

All: 191.944 $\pm$ 0.024 χ^2 /NDF: 5584193.0/65

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.158 ± 8.826 χ^2/NDF : 18.1/16

Left Out: 17.579 ± 6.602 χ^2/NDF : 20.0/15

Right Out: 19.316 ± 8.554 χ^2/NDF : 14.8/18

Left In: 8.917 ± 6.854 χ^2/NDF : 15.0/13

Left: 13.411 ± 4.755 χ^2/NDF : 35.8/29

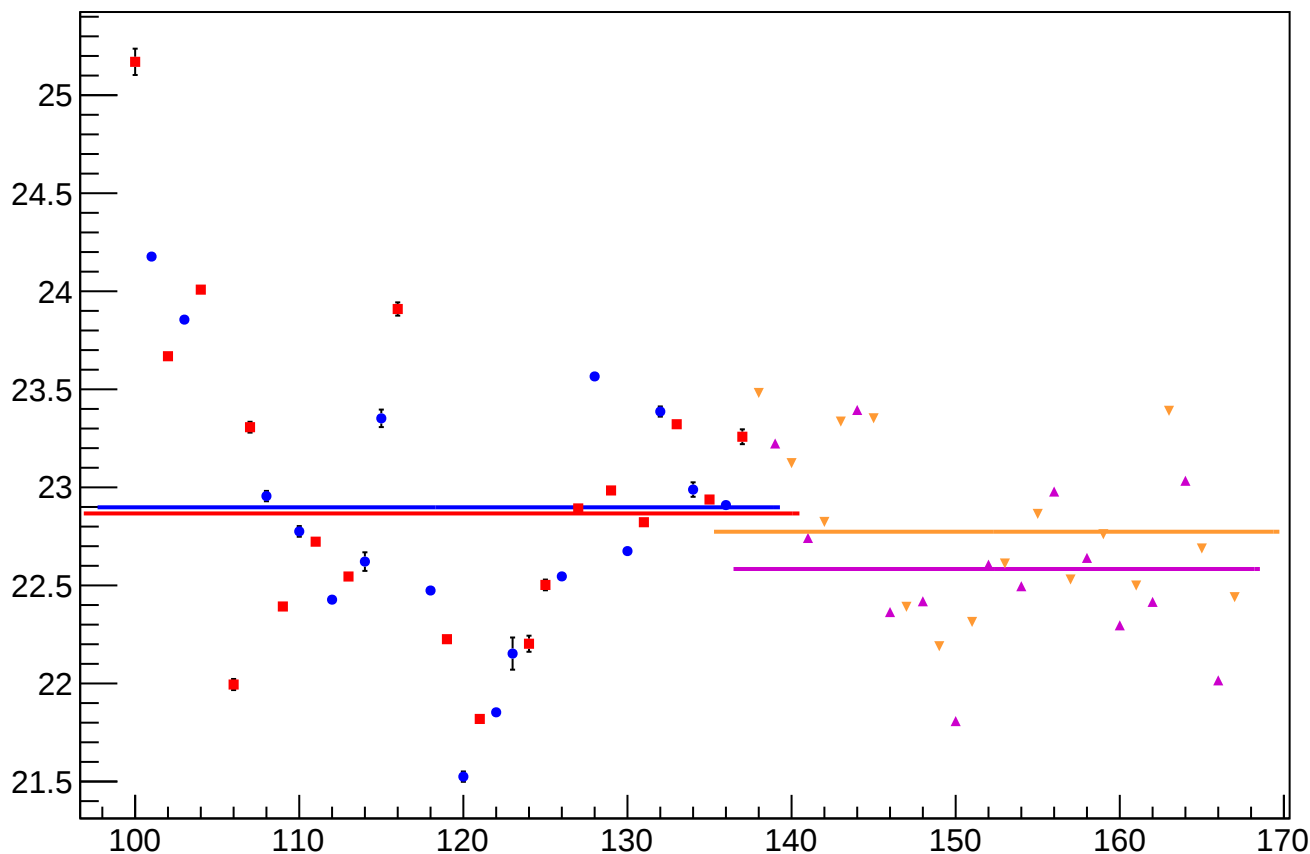
Right: 9.884 ± 6.142 χ^2/NDF : 35.4/35

In: 5.503 ± 5.414 χ^2/NDF : 33.7/30

Out: 18.228 ± 5.226 χ^2/NDF : 34.8/34

All: 12.089 ± 3.760 χ^2/NDF : 71.4/65

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: 22.774 $\pm$ 0.005 χ^2 /NDF: 7598.0/15

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: 22.682 $\pm$ 0.003 χ^2 /NDF: 16040.7/29

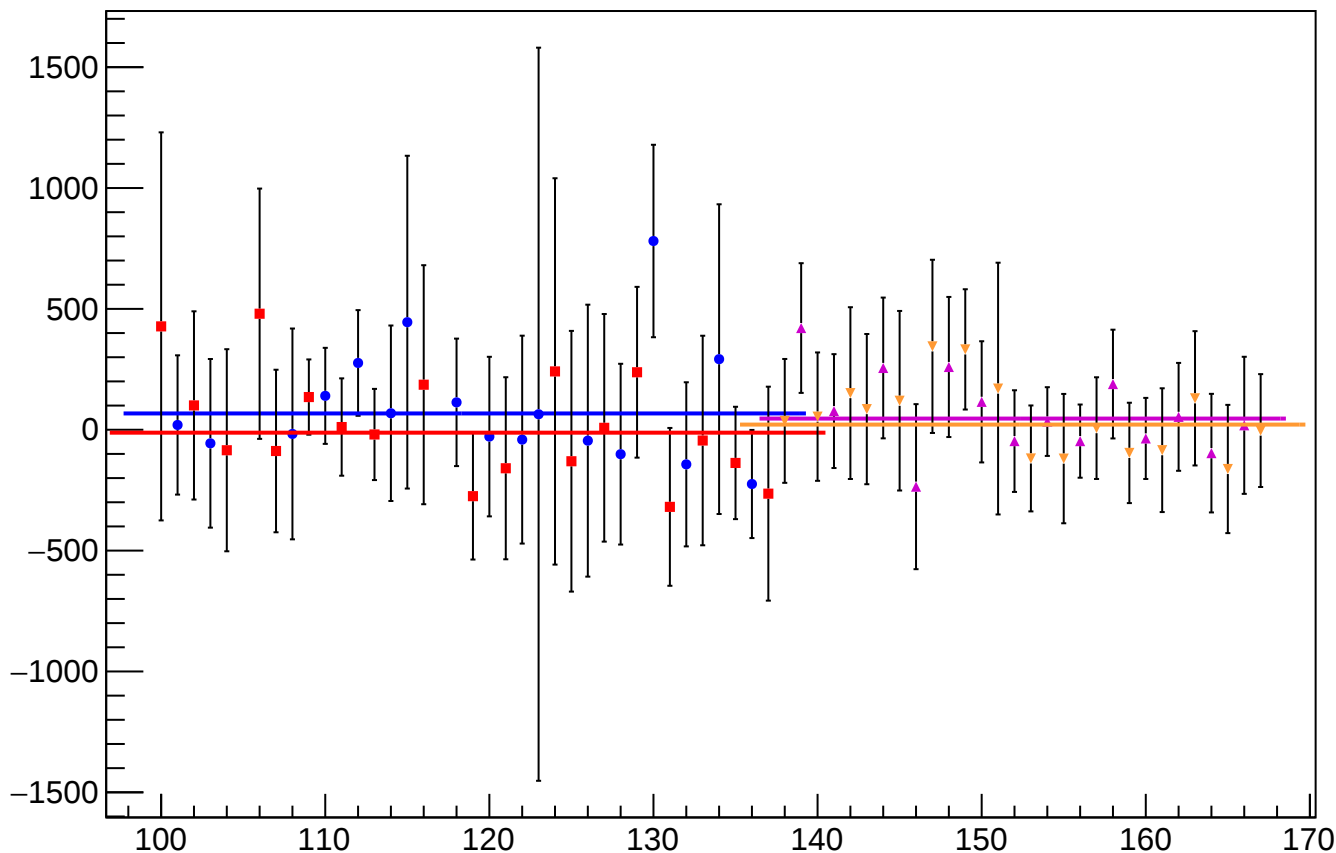
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.702 $\pm$ 0.004 χ^2 /NDF: 21373.1/30

Out: 22.809 $\pm$ 0.004 χ^2 /NDF: 18795.1/34

All: 22.757 $\pm$ 0.003 χ^2 /NDF: 40568.8/65

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: 21.352 $\pm$ 66.825 χ^2 /NDF:4.6/15

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: 35.572 $\pm$ 43.677 χ^2 /NDF: 10.0/29

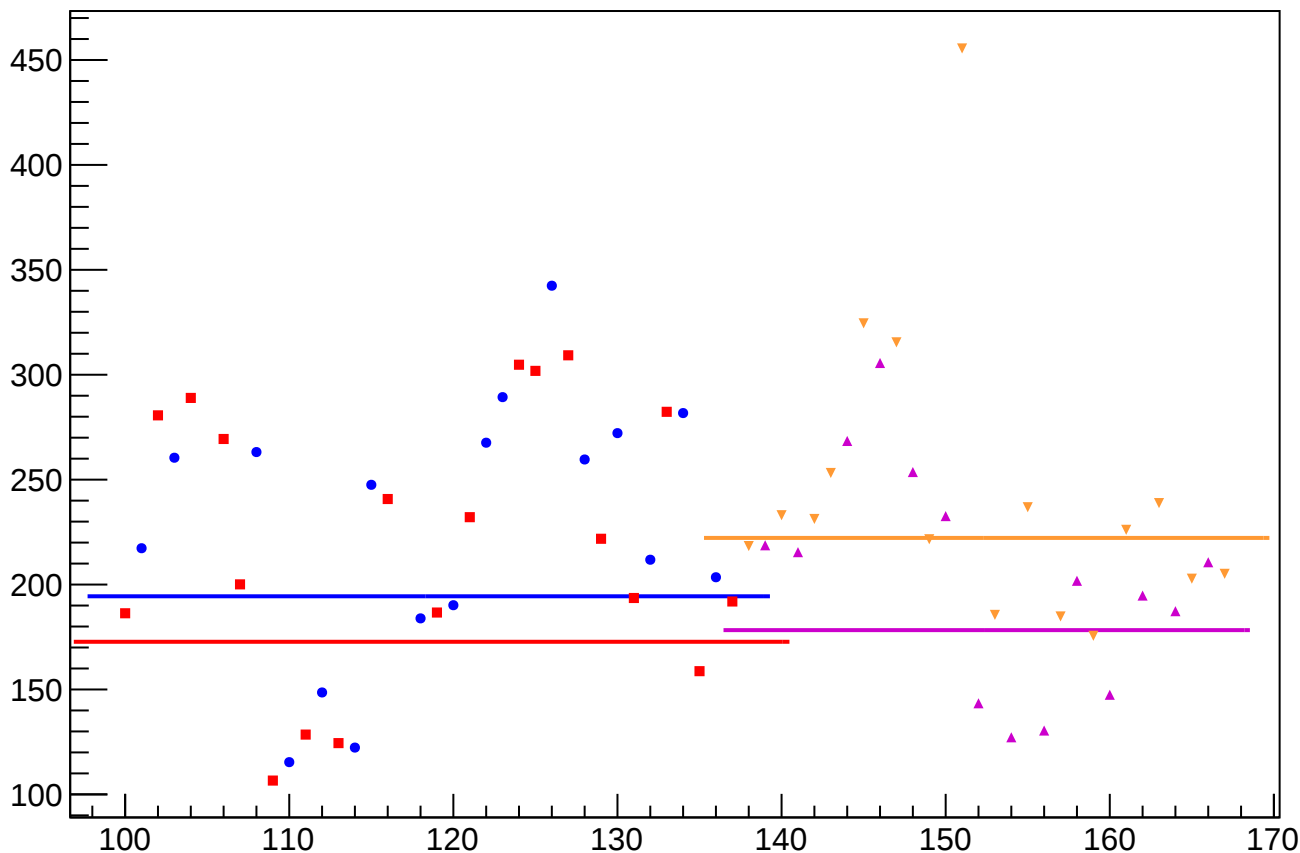
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 53.530 $\pm$ 46.683 χ^2 /NDF:12.8/30

Out: 5.478 $\pm$ 48.452 χ^2 /NDF:10.4/34

All: 30.397 $\pm$ 33.618 χ^2 /NDF: 23.7/65

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411 $\pm$ 0.056 χ^2 /NDF: 1019913.2/16

Left Out: 222.230 $\pm$ 0.047 χ^2 /NDF: 968581.1/15

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 178.284 $\pm$ 0.041 χ^2 /NDF: 1436018.6/13

Left: 197.057 $\pm$ 0.031 χ^2 /NDF: 2900053.0/29

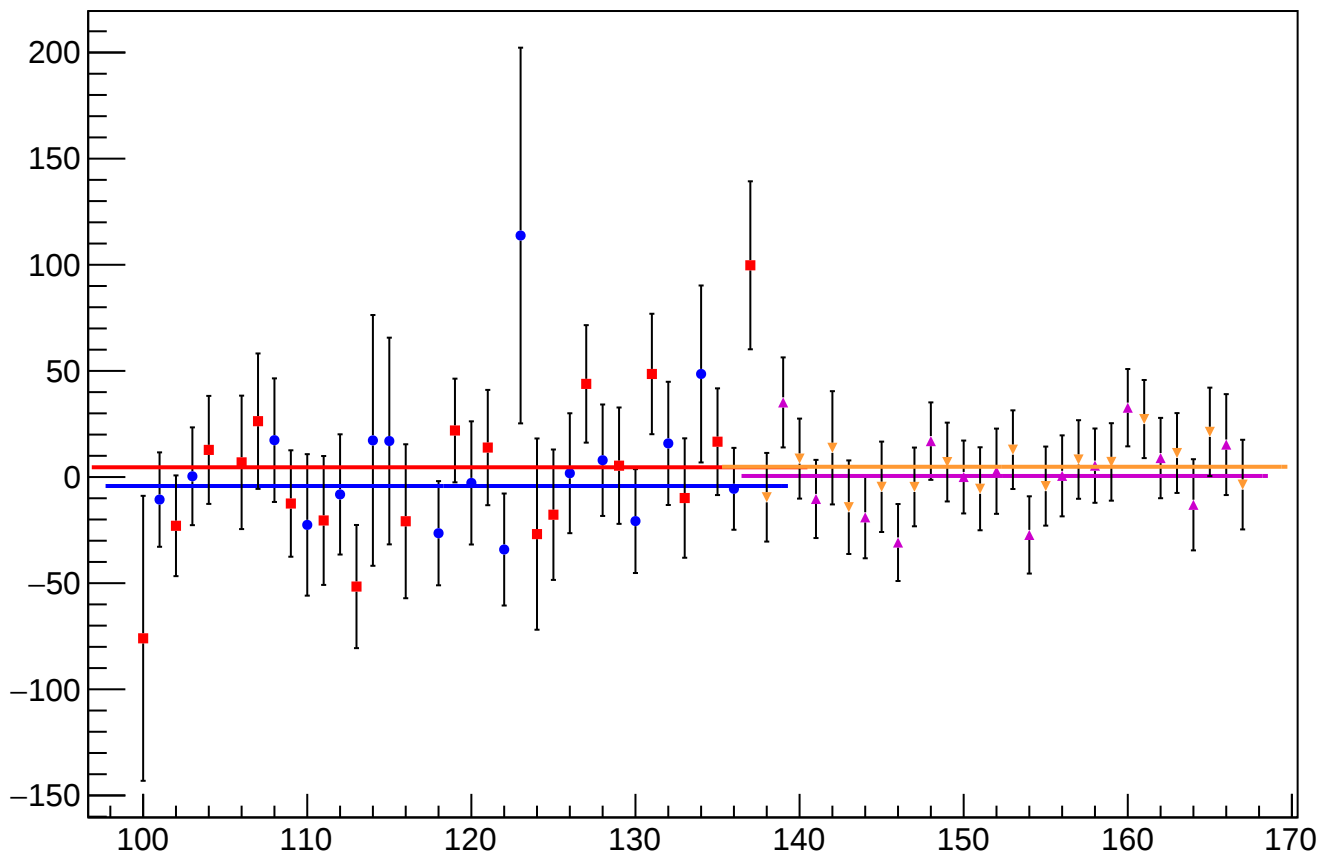
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 183.858 $\pm$ 0.033 χ^2 /NDF: 2509914.6/30

Out: 198.753 $\pm$ 0.034 χ^2 /NDF: 3085810.6/34

All: 191.028 $\pm$ 0.024 χ^2 /NDF: 5693747.6/65

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: 4.839 ± 4.924 $\chi^2/\text{NDF}: 5.0/15$

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: 2.746 ± 3.540 $\chi^2/\text{NDF}: 19.7/29$

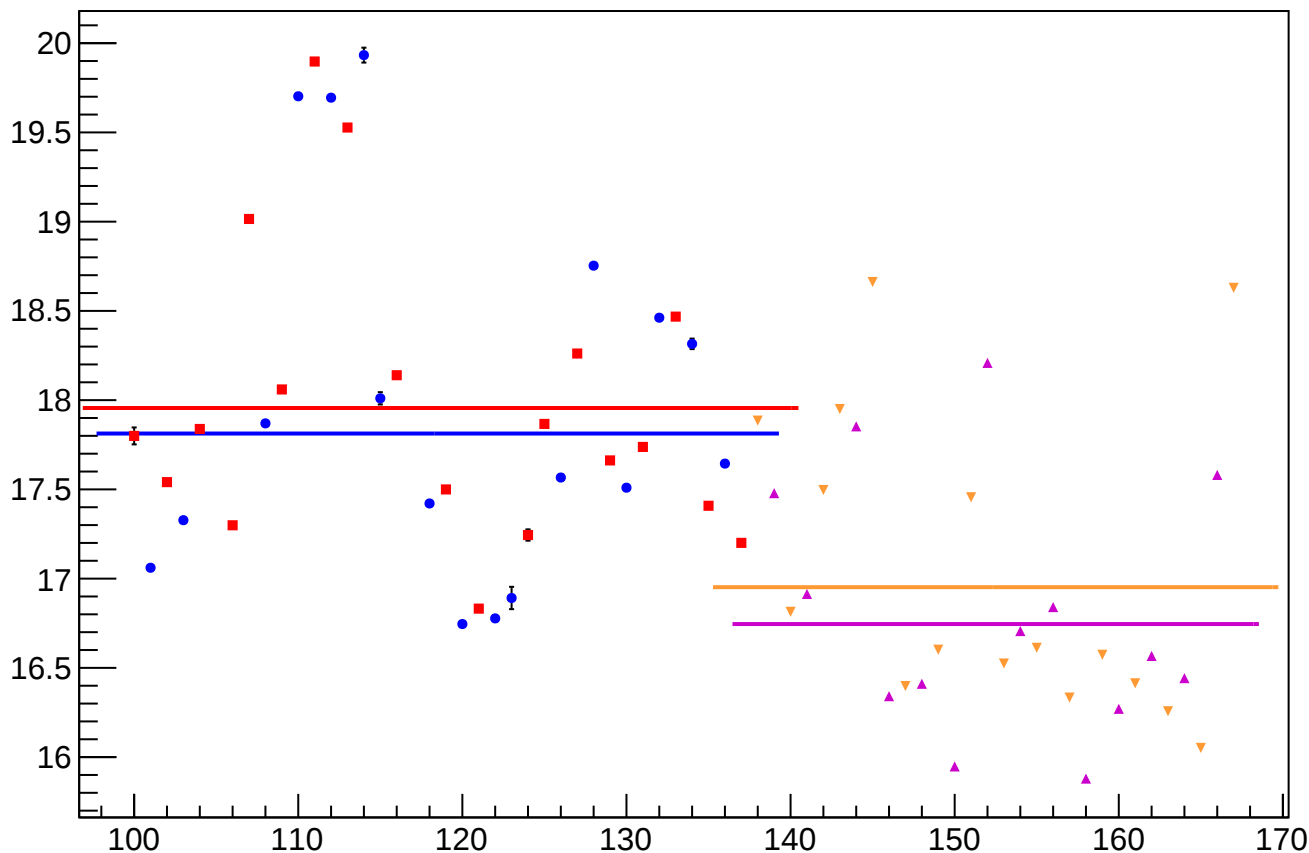
Right: 0.283 ± 4.806 $\chi^2/\text{NDF}: 29.9/35$

In: -1.171 ± 4.092 $\chi^2/\text{NDF}: 22.7/30$

Out: 4.756 ± 3.973 $\chi^2/\text{NDF}: 26.1/34$

All: 1.880 ± 2.850 $\chi^2/\text{NDF}: 49.8/65$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 $\pm$ 0.005 χ^2 /NDF: 32034.8/16

Left Out: 16.952 $\pm$ 0.003 χ^2 /NDF: 51378.7/15

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.746 $\pm$ 0.004 χ^2 /NDF: 35114.6/13

Left: 16.852 $\pm$ 0.003 χ^2 /NDF: 88193.9/29

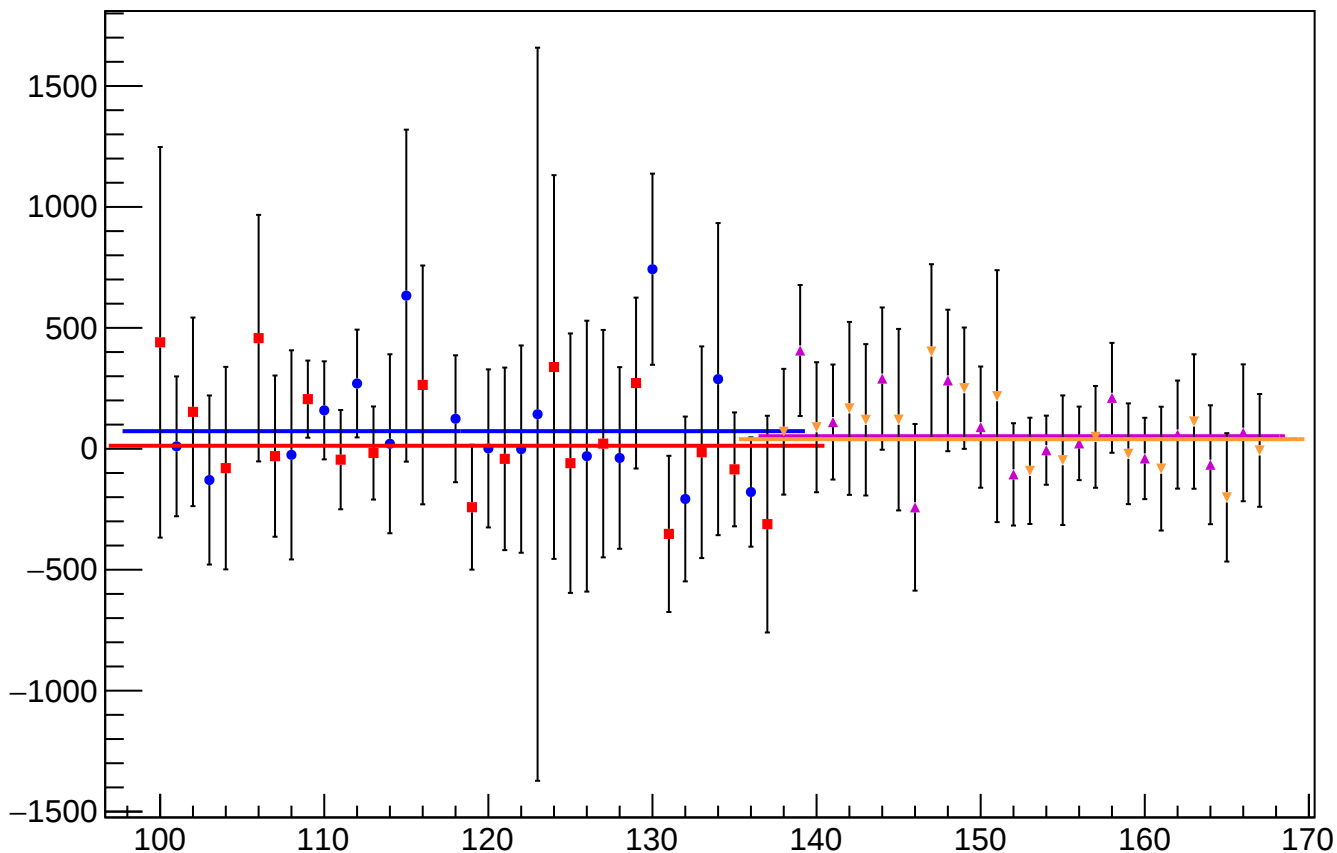
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.124 $\pm$ 0.003 χ^2 /NDF: 98302.0/30

Out: 17.302 $\pm$ 0.003 χ^2 /NDF: 105836.3/34

All: 17.216 $\pm$ 0.002 χ^2 /NDF: 206095.5/65

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888 $\pm$ 79.948 χ^2 /NDF: 7.2/16

Left Out: 39.884 $\pm$ 67.103 χ^2 /NDF:3.8/15

Right Out: 12.565 $\pm$ 71.013 χ^2 /NDF: 6.7/18

Left In: 51.965 $\pm$ 57.993 χ^2 /NDF:5.6/13

Left: 46.800 $\pm$ 43.877 χ^2 /NDF: 9.4/29

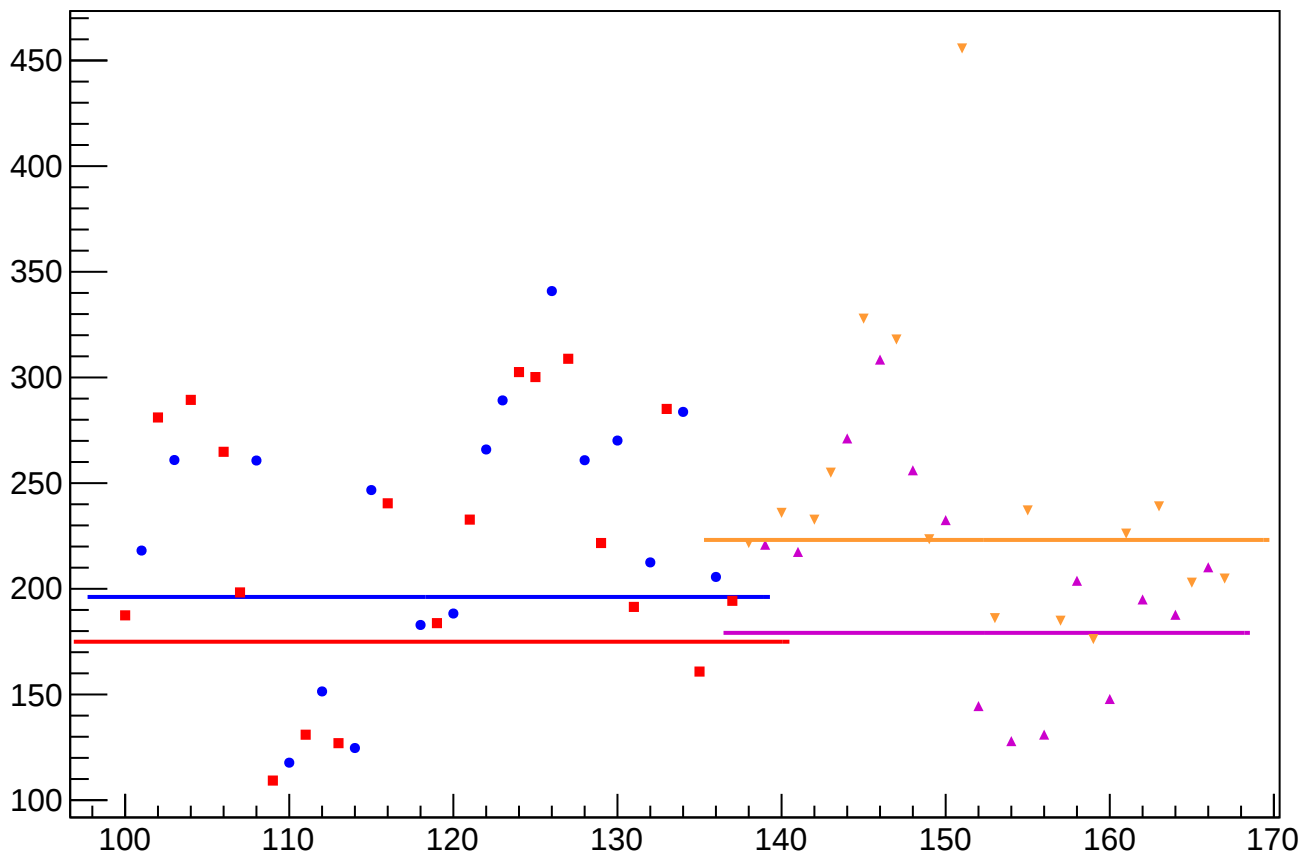
Right: 39.168 $\pm$ 53.093 χ^2 /NDF: 14.3/35

In: 59.179 $\pm$ 46.943 χ^2 /NDF:12.8/30

Out: 26.997 $\pm$ 48.773 χ^2 /NDF:10.6/34

All: 43.703 $\pm$ 33.822 χ^2 /NDF: 23.7/65

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: 223.128+/-0.047 χ^2/NDF : 979546.1/15

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: 197.957+/-0.031 χ^2/NDF : 2917404.0/29

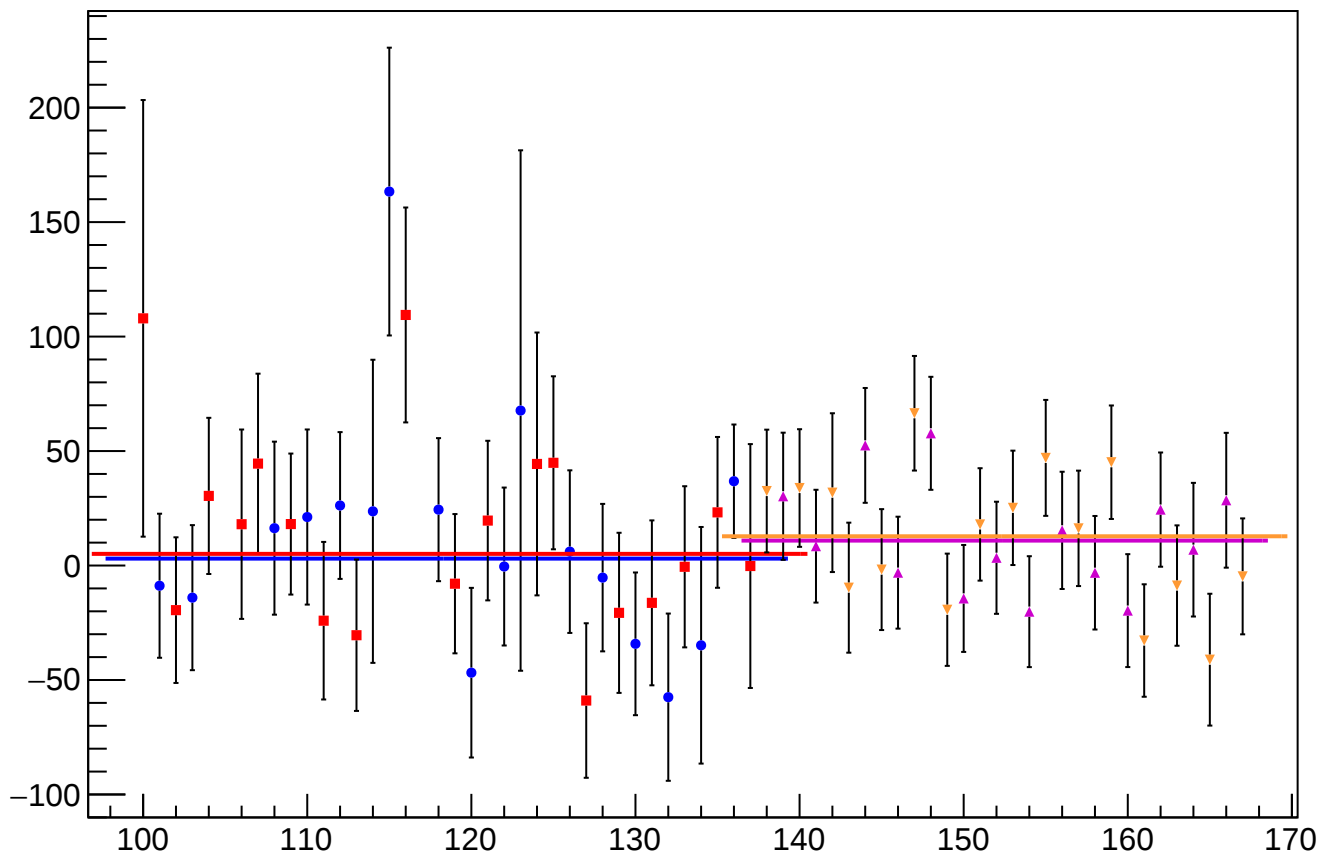
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 185.016+/-0.033 χ^2/NDF : 2470484.1/30

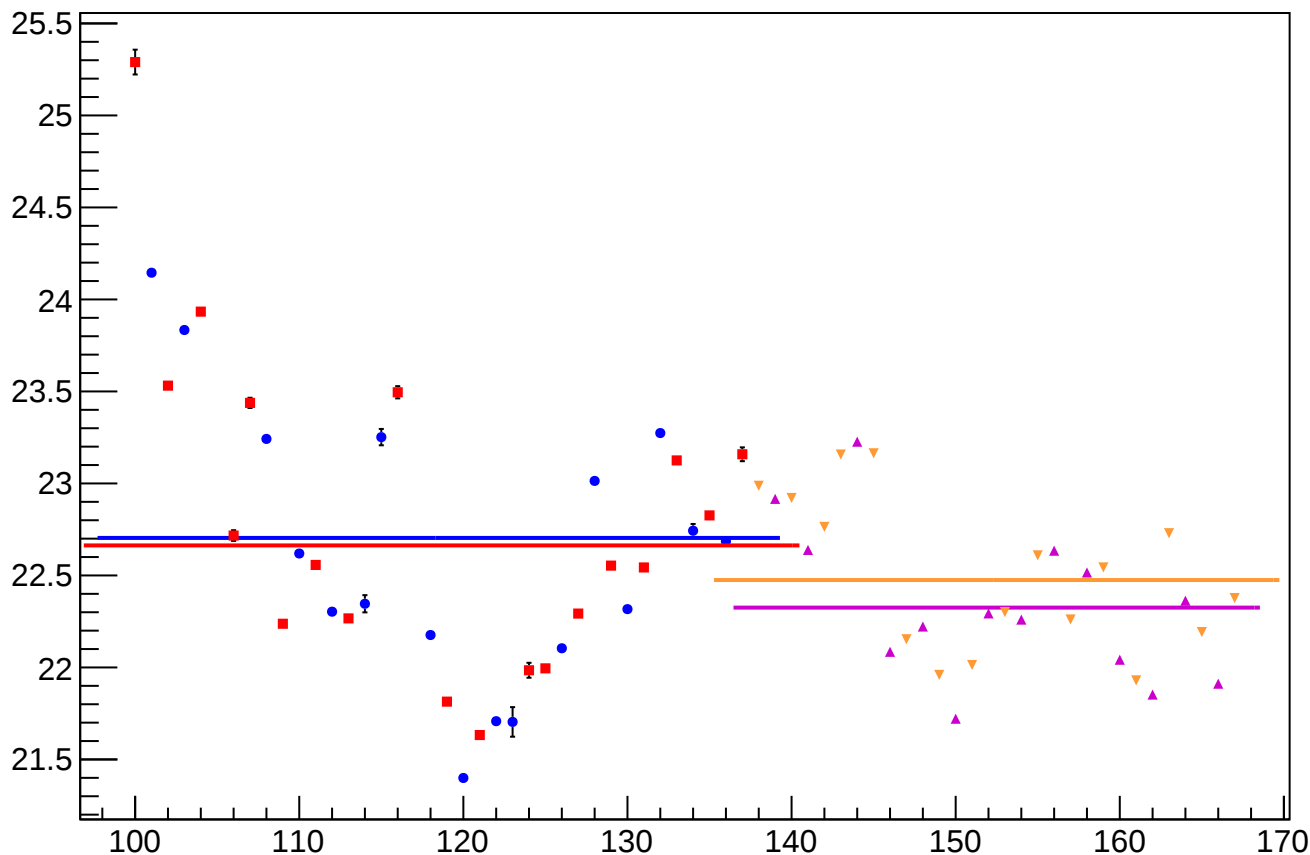
Out: 200.409+/-0.034 χ^2/NDF : 2976519.3/34

All: 192.418+/-0.024 χ^2/NDF : 5550407.0/65

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: 22.475 $\pm$ 0.005 χ^2 /NDF: 7617.7/15

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: 22.403 $\pm$ 0.003 χ^2 /NDF: 15313.4/29

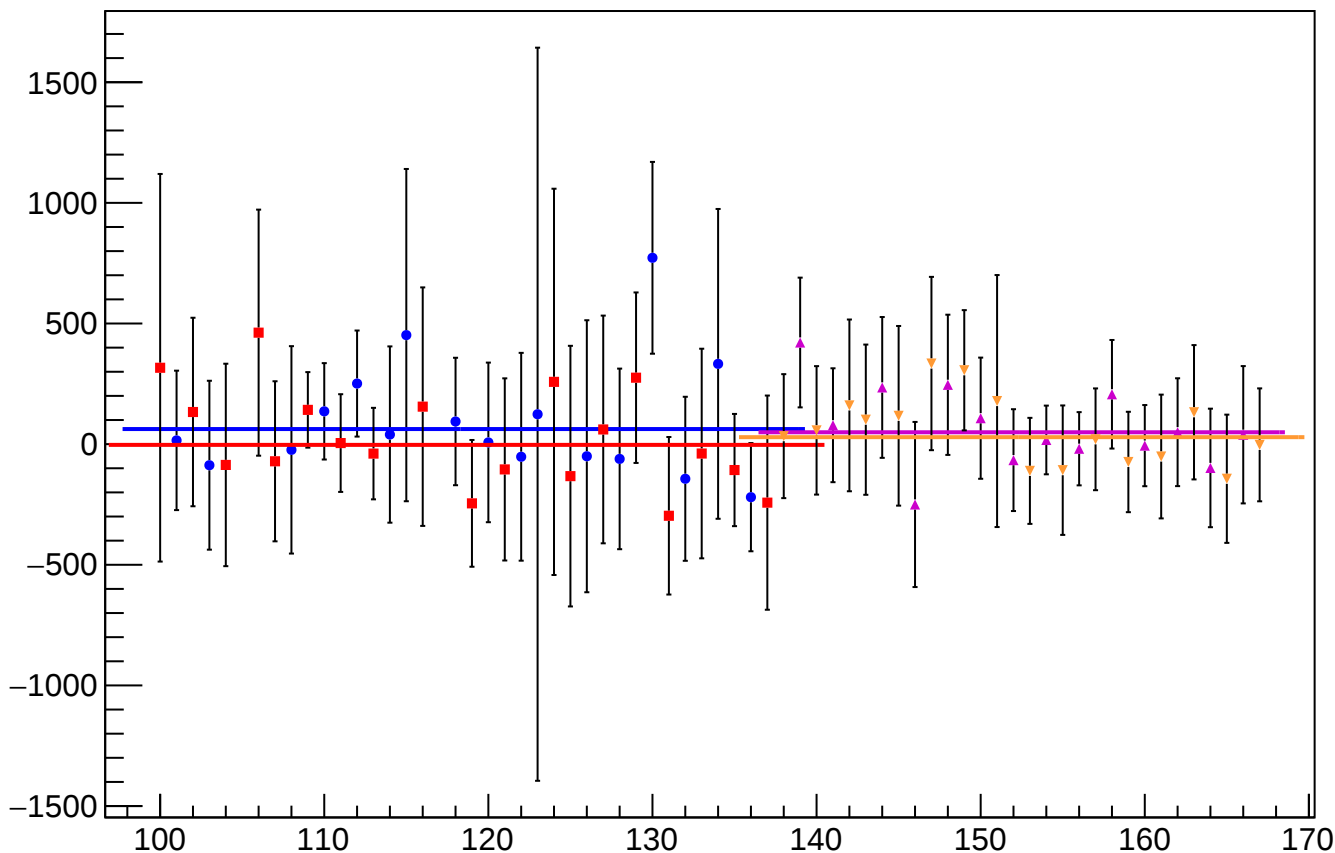
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.467 $\pm$ 0.004 χ^2 /NDF: 23634.9/30

Out: 22.545 $\pm$ 0.004 χ^2 /NDF: 21180.2/34

All: 22.507 $\pm$ 0.003 χ^2 /NDF: 45033.8/65

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: 28.880+/-66.975 χ^2/NDF : 3.9/15

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: 40.534+/-43.770 χ^2/NDF : 9.1/29

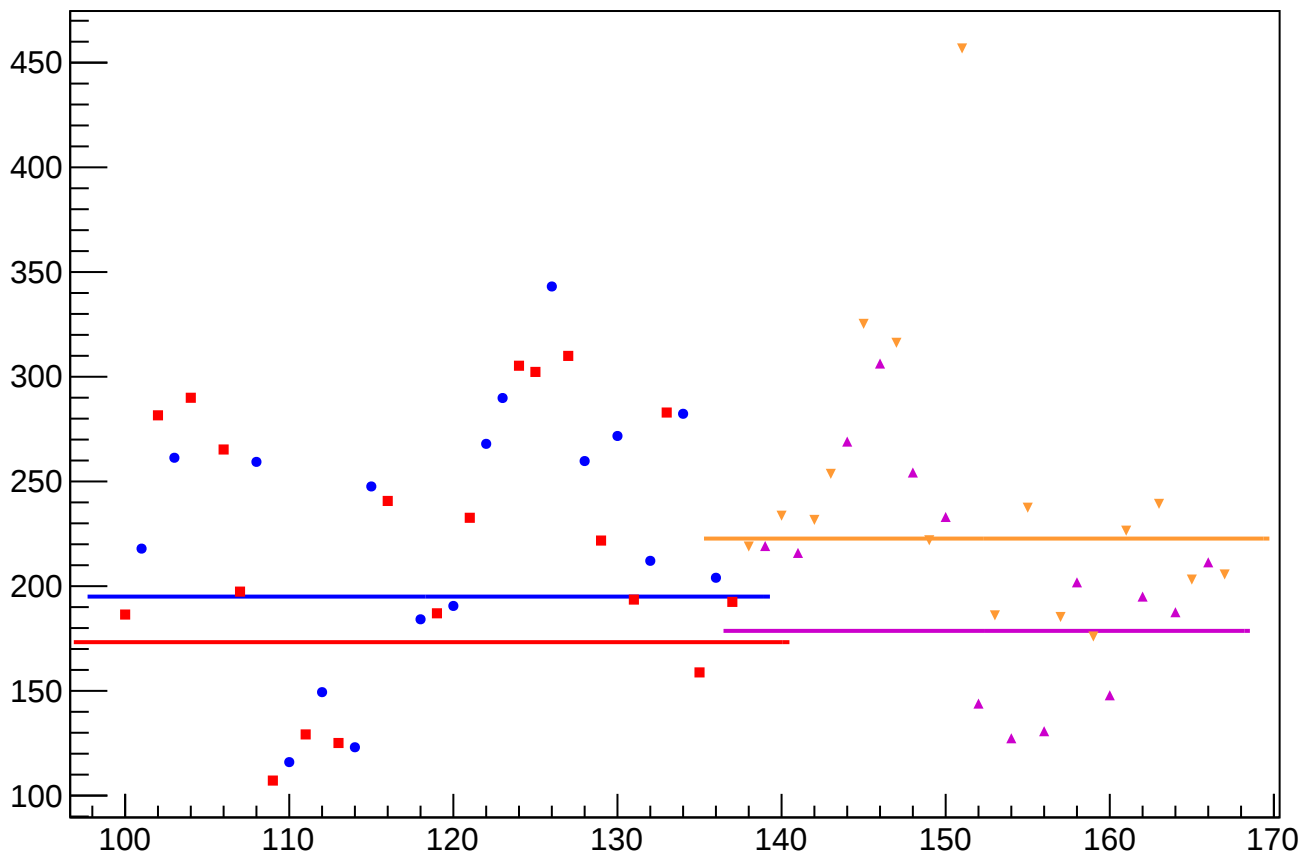
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 53.834+/-46.787 χ^2/NDF : 12.2/30

Out: 13.743+/-48.562 χ^2/NDF : 9.2/34

All: 34.535+/-33.693 χ^2/NDF : 21.7/65

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: 222.727+/-0.047 χ^2/NDF : 968625.1/15

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: 197.476+/-0.031 χ^2/NDF : 2900616.3/29

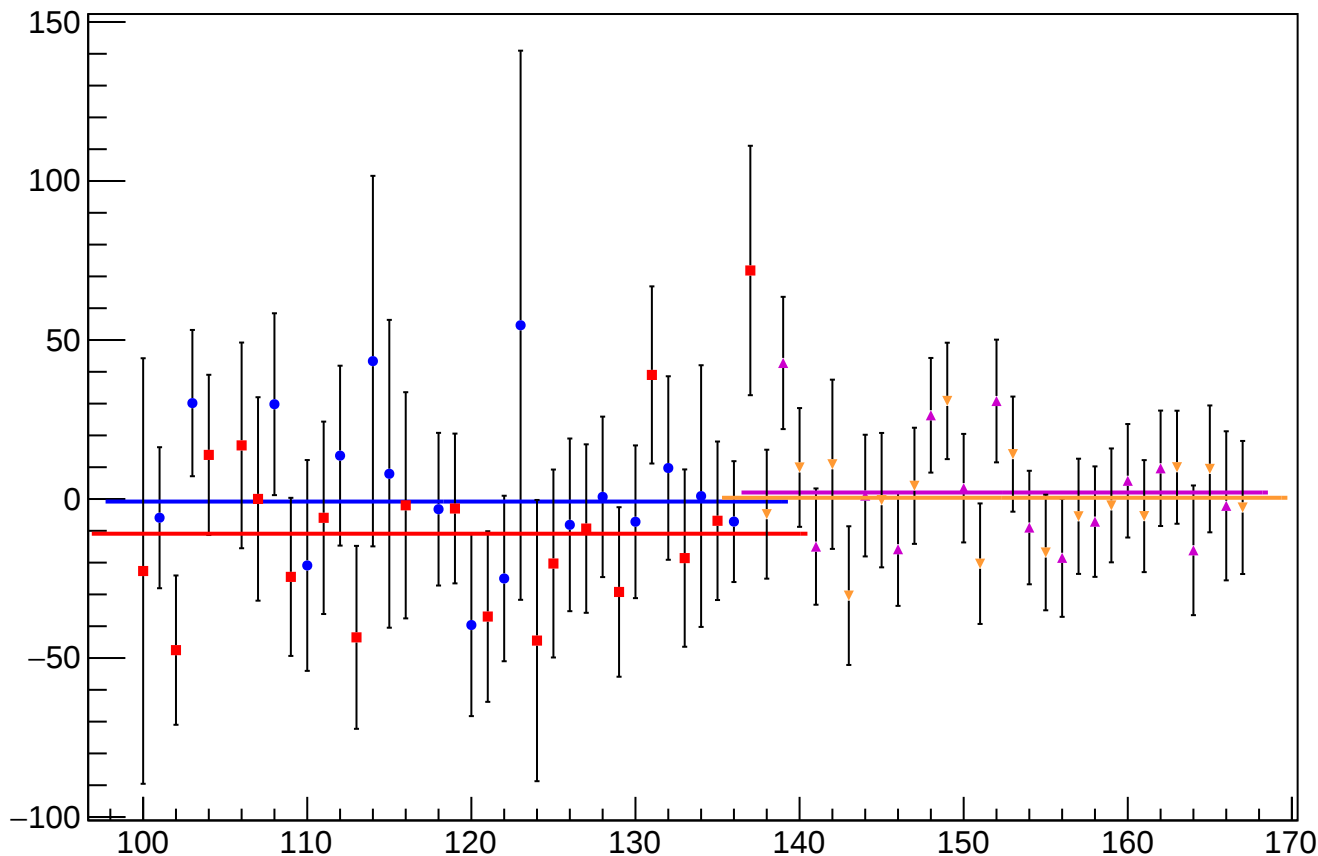
Right: 182.829+/-0.037 χ^2/NDF : 2666222.6/35

In: 184.306+/-0.033 χ^2/NDF : 2495421.0/30

Out: 199.268+/-0.034 χ^2/NDF : 3064208.4/34

All: 191.508+/-0.024 χ^2/NDF : 5658085.8/65

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: 0.390 ± 4.808 χ^2/NDF : 8.7/15

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: 1.187 ± 3.463 χ^2/NDF : 21.4/29

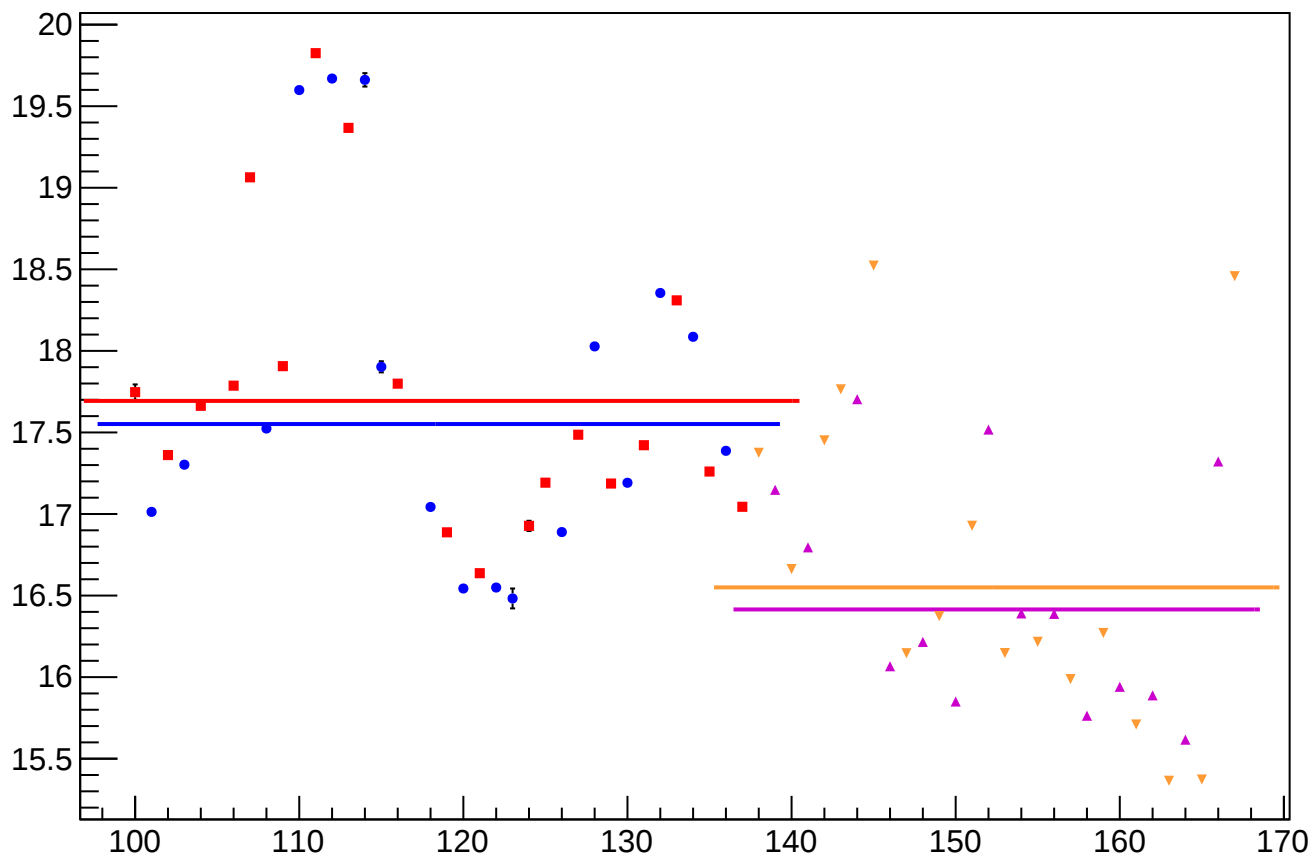
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 1.043 ± 4.017 χ^2/NDF : 20.6/30

Out: -3.508 ± 3.891 χ^2/NDF : 26.5/34

All: -1.305 ± 2.795 χ^2/NDF : 47.8/65

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: 16.550 $\pm$ 0.003 χ^2 /NDF:72397.7/15

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: 16.485 $\pm$ 0.002 χ^2 /NDF: 107298.9/29

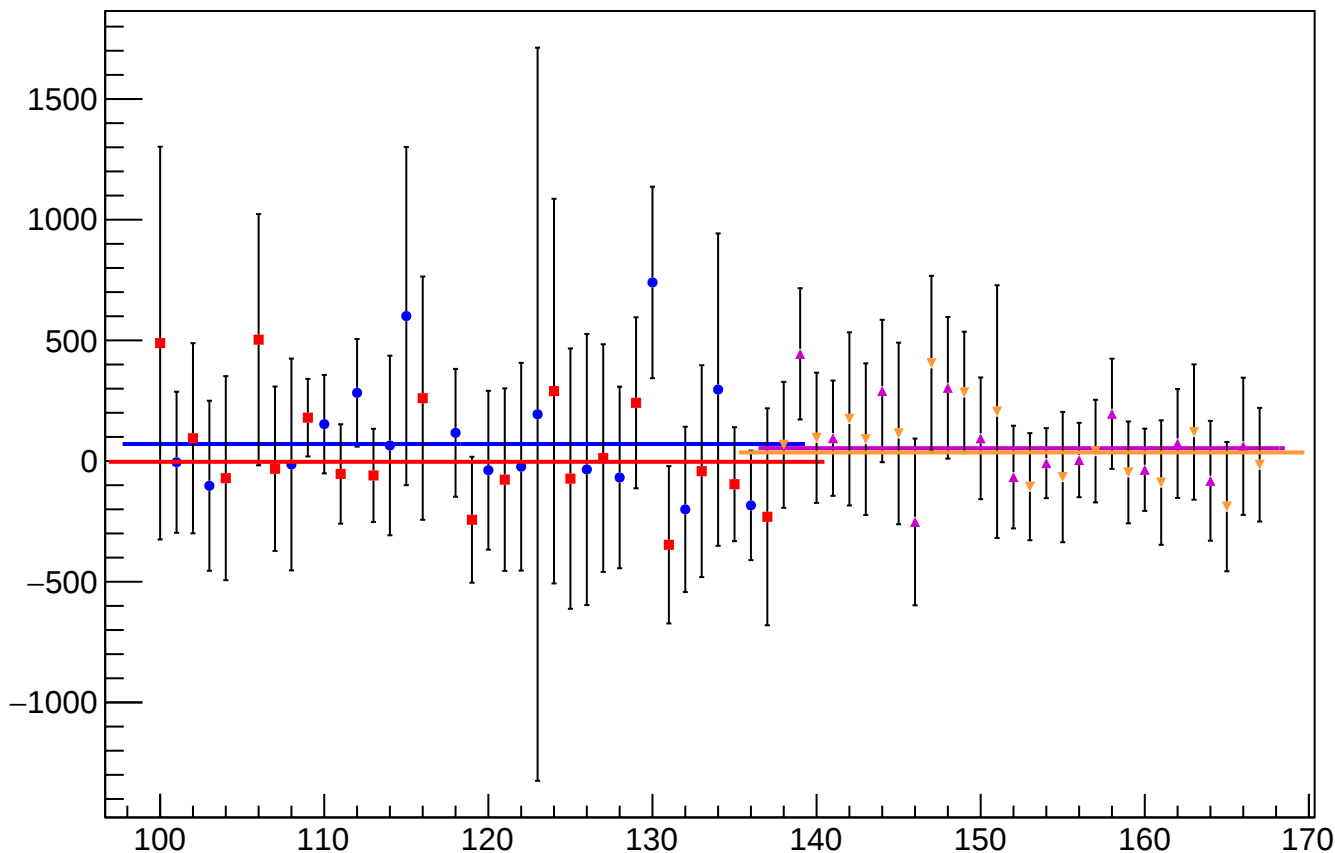
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.815 $\pm$ 0.003 χ^2 /NDF:104689.0/30

Out: 16.944 $\pm$ 0.003 χ^2 /NDF:142139.1/34

All: 16.882 $\pm$ 0.002 χ^2 /NDF: 247897.2/65

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: 35.643 $\pm$ 67.590 χ^2 /NDF:4.2/15

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: 45.781 $\pm$ 44.255 χ^2 /NDF: 10.1/29

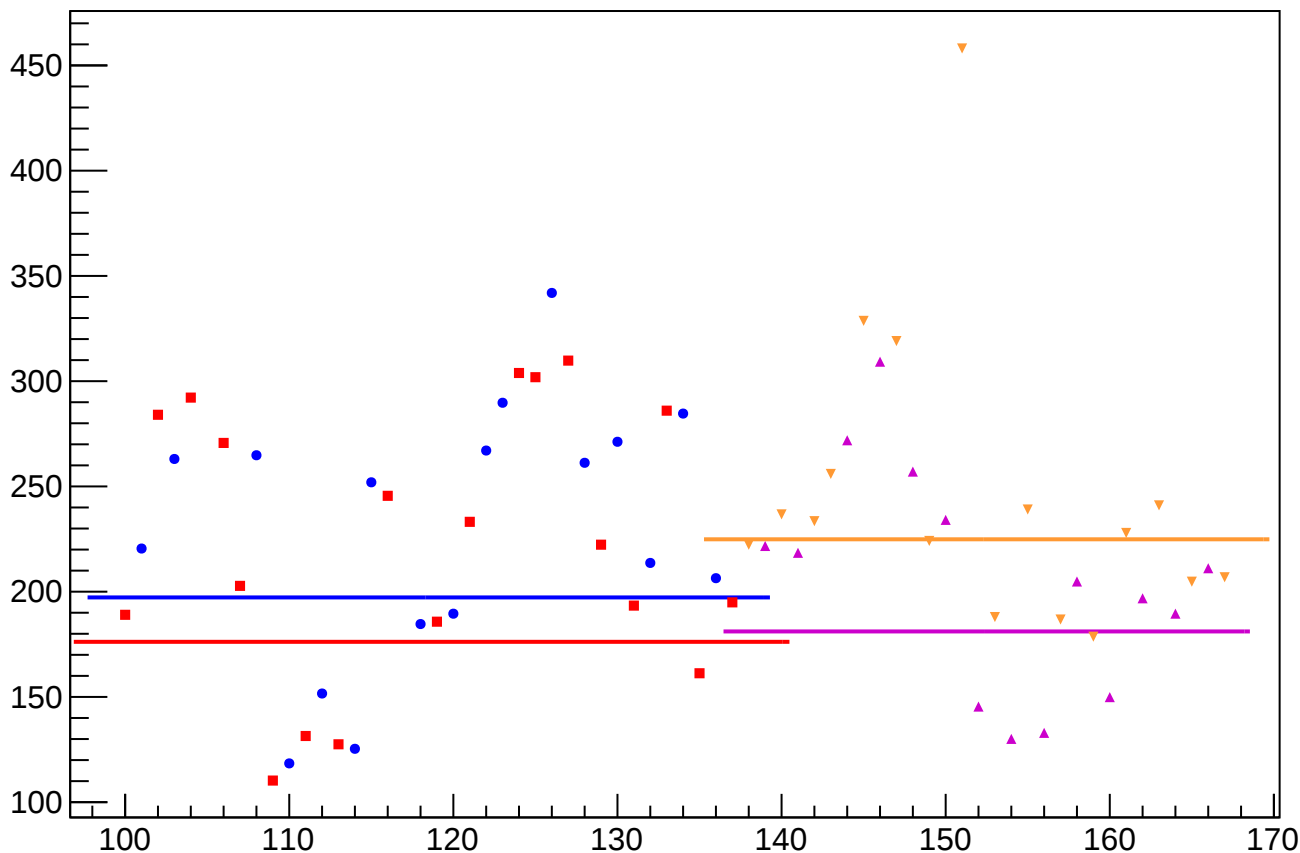
Right: 29.482 $\pm$ 53.435 χ^2 /NDF: 13.8/35

In: 59.364 $\pm$ 47.332 χ^2 /NDF:13.1/30

Out: 17.379 $\pm$ 49.120 χ^2 /NDF:10.5/34

All: 39.150 $\pm$ 34.084 χ^2 /NDF: 24.0/65

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: 224.882+/-0.048 χ^2/NDF : 960196.1/15

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: 199.877+/-0.031 χ^2/NDF : 2841494.1/29

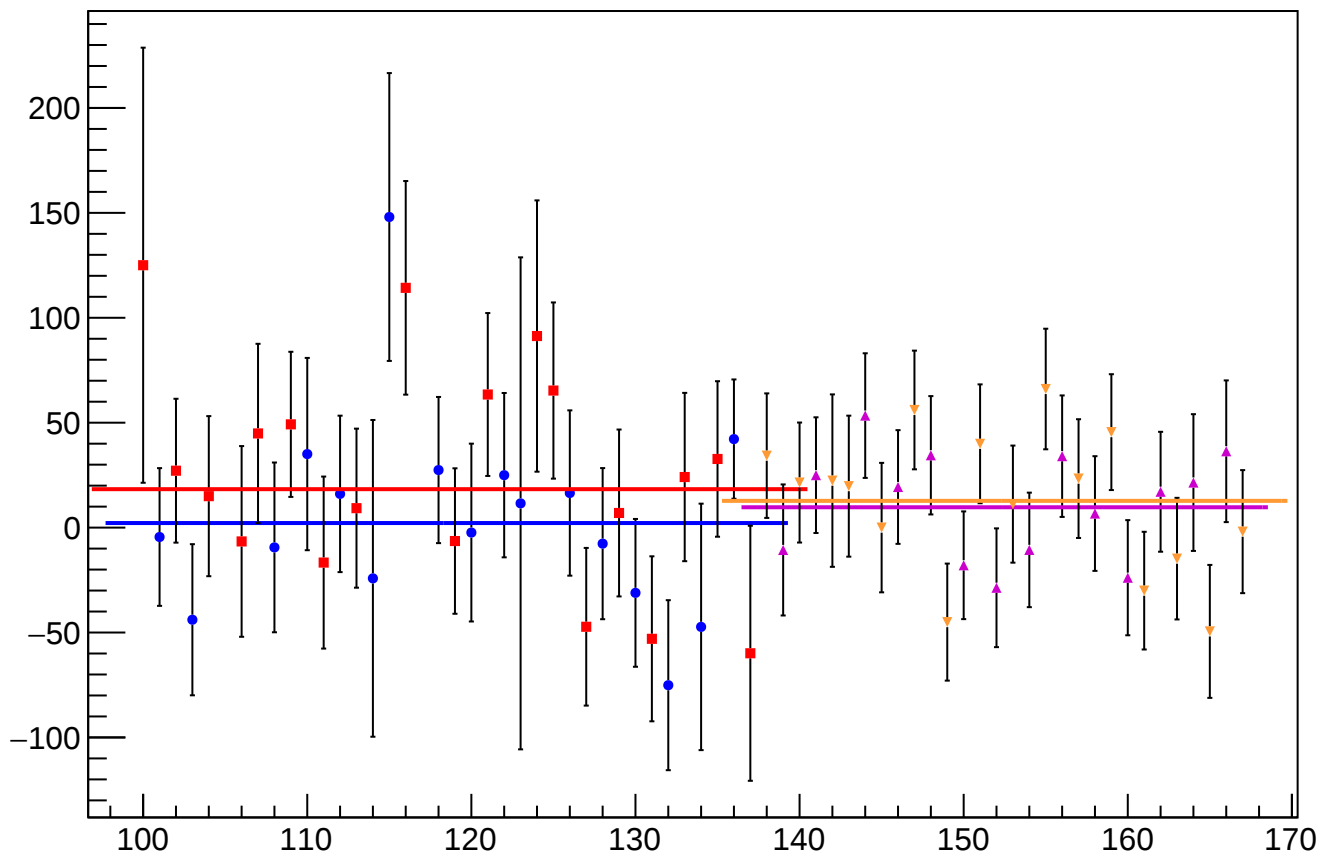
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 186.712+/-0.033 χ^2/NDF : 2424493.6/30

Out: 201.902+/-0.035 χ^2/NDF : 2969863.9/34

All: 194.025+/-0.024 χ^2/NDF : 5493530.6/65

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178+/-9.825 χ^2/NDF : 15.4/16

Left Out: 12.748+/-7.383 χ^2/NDF :20.8/15

Right Out: 18.320+/-9.497 χ^2/NDF : 19.6/18

Left In: 9.696+/-7.645 χ^2/NDF :10.4/13

Left: 11.275+/-5.311 χ^2/NDF : 31.2/29

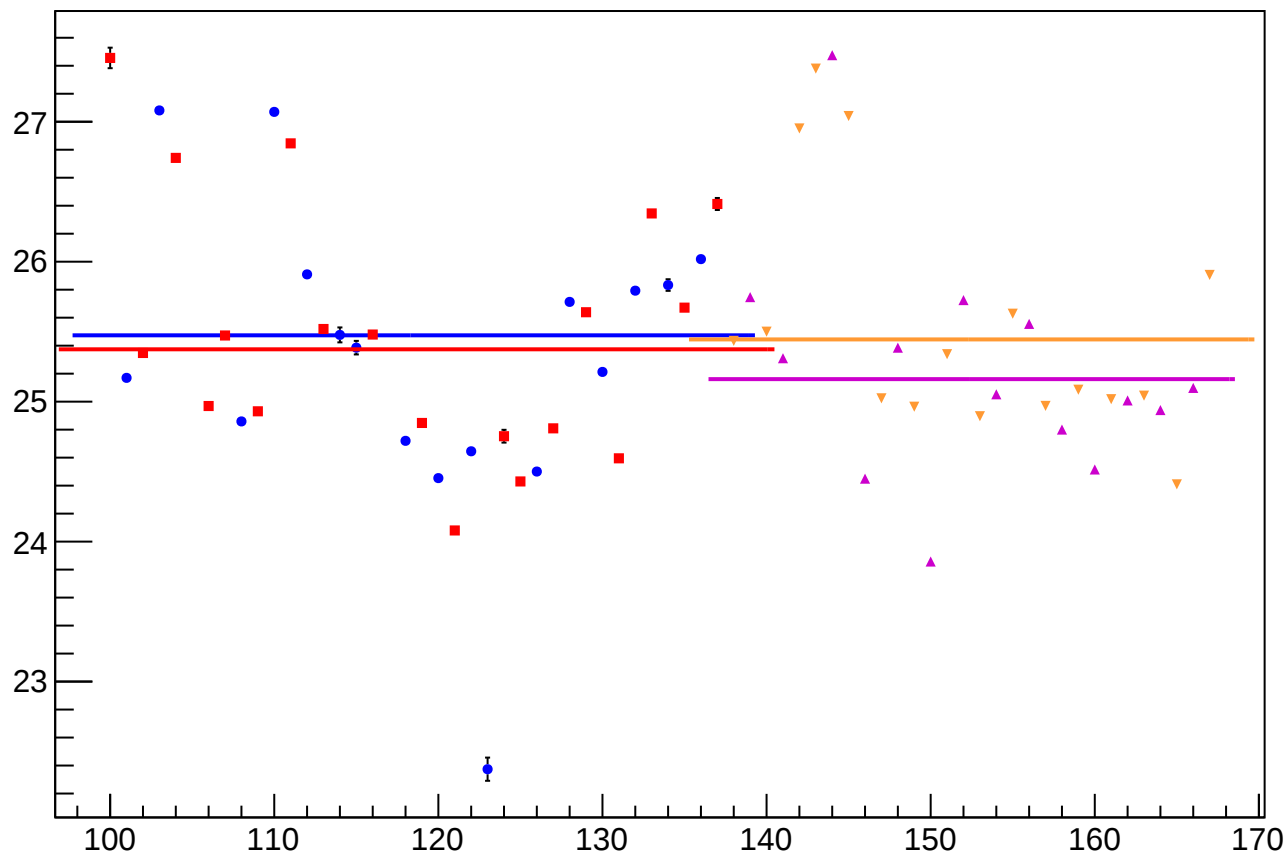
Right: 10.522+/-6.828 χ^2/NDF : 36.4/35

In: 6.860+/-6.034 χ^2/NDF :26.1/30

Out: 14.846+/-5.829 χ^2/NDF :40.6/34

All: 10.991+/-4.192 χ^2/NDF : 67.6/65

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: 25.445 $\pm$ 0.005 χ^2 /NDF: 20988.6/15

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: 25.308 $\pm$ 0.004 χ^2 /NDF: 44796.9/29

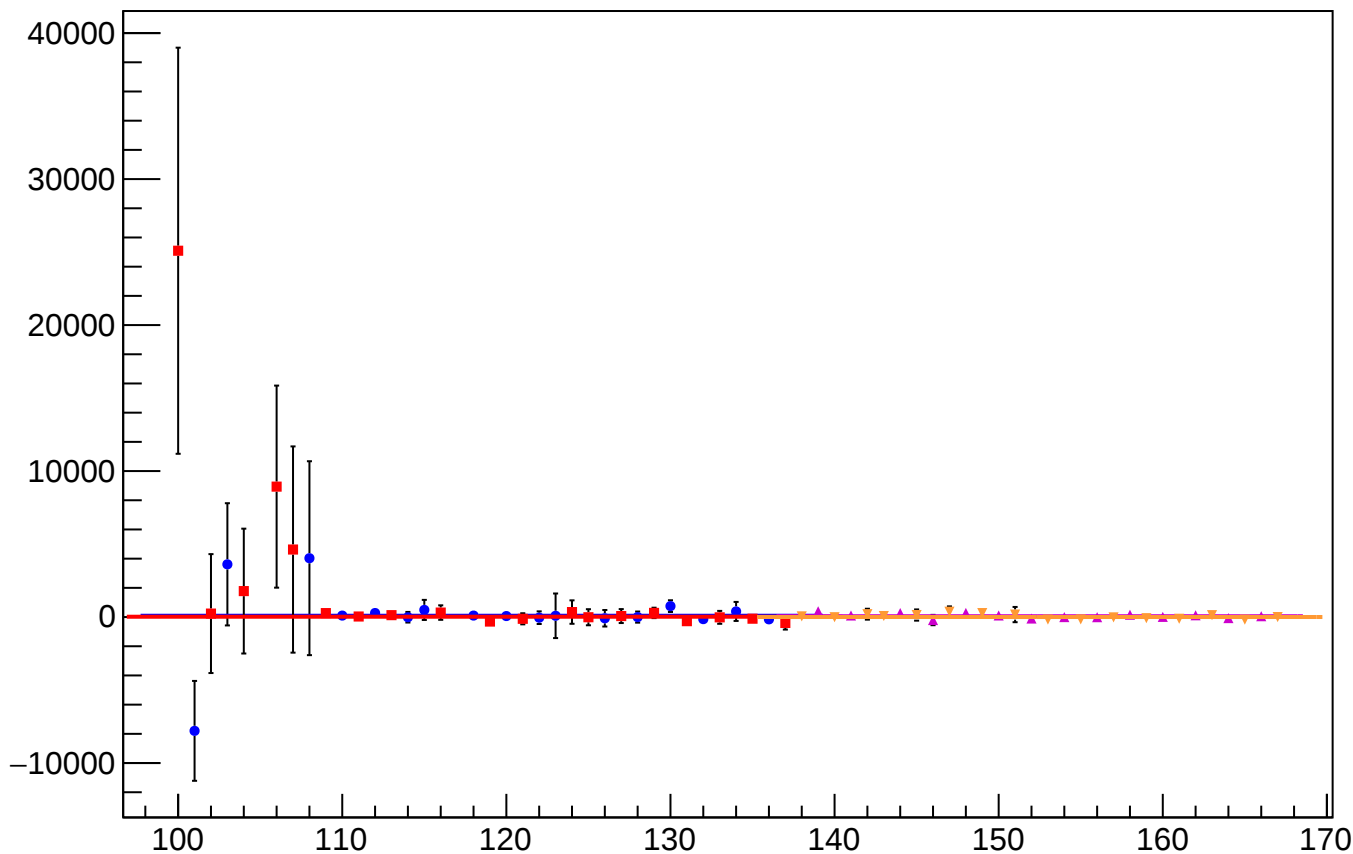
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.279 $\pm$ 0.004 χ^2 /NDF: 37708.2/30

Out: 25.418 $\pm$ 0.004 χ^2 /NDF: 34638.9/34

All: 25.351 $\pm$ 0.003 χ^2 /NDF: 72896.7/65

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: 2.805 $\pm$ 68.054 χ^2 /NDF:4.6/15

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: 34.438 $\pm$ 44.692 χ^2 /NDF: 9.8/29

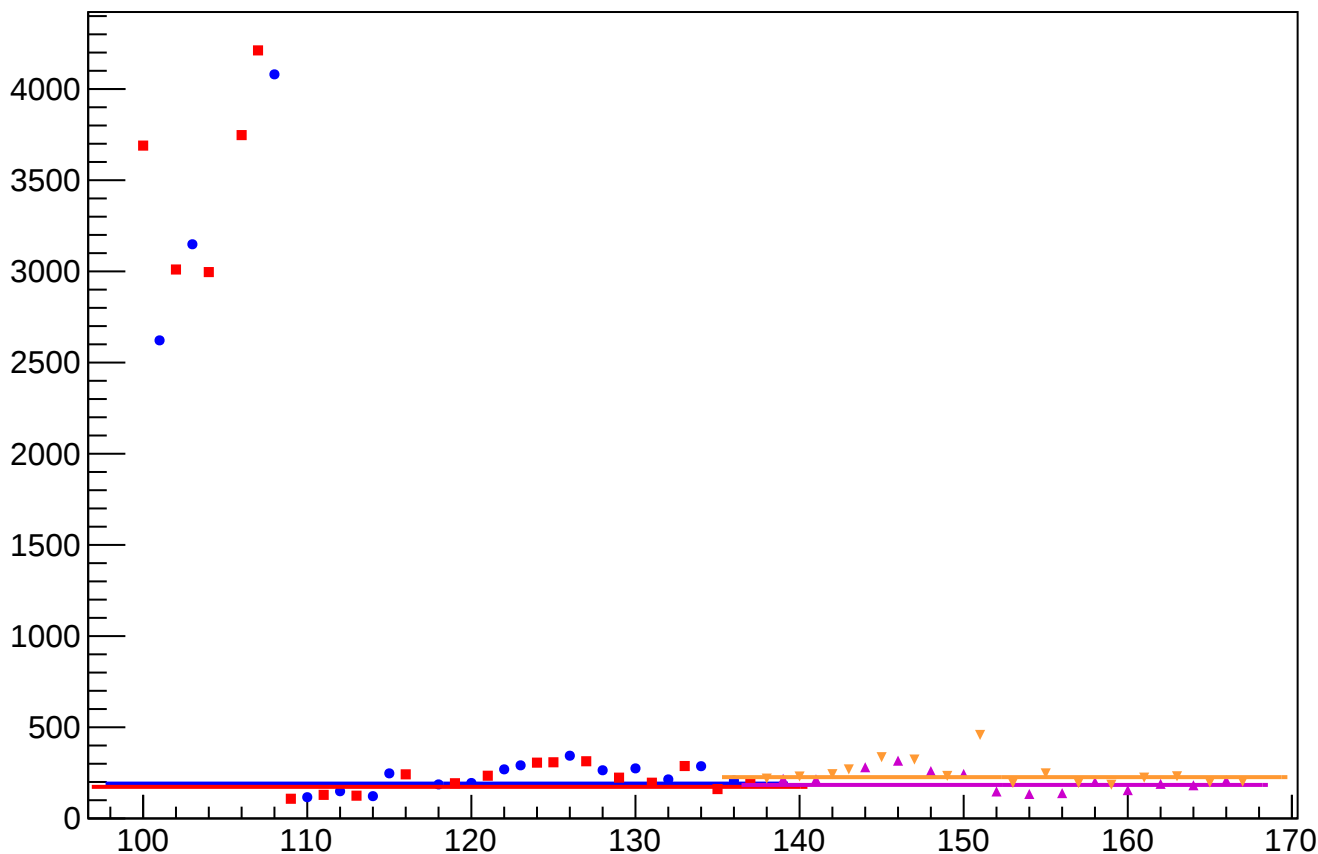
Right: 53.445 $\pm$ 59.443 χ^2 /NDF: 24.5/35

In: 68.216 $\pm$ 49.091 χ^2 /NDF:17.2/30

Out: 11.013 $\pm$ 52.079 χ^2 /NDF:16.5/34

All: 41.303 $\pm$ 35.722 χ^2 /NDF: 34.4/65

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: 226.583+/-0.048 χ^2/NDF : 955074.5/15

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: 202.302+/-0.032 χ^2/NDF : 2698850.8/29

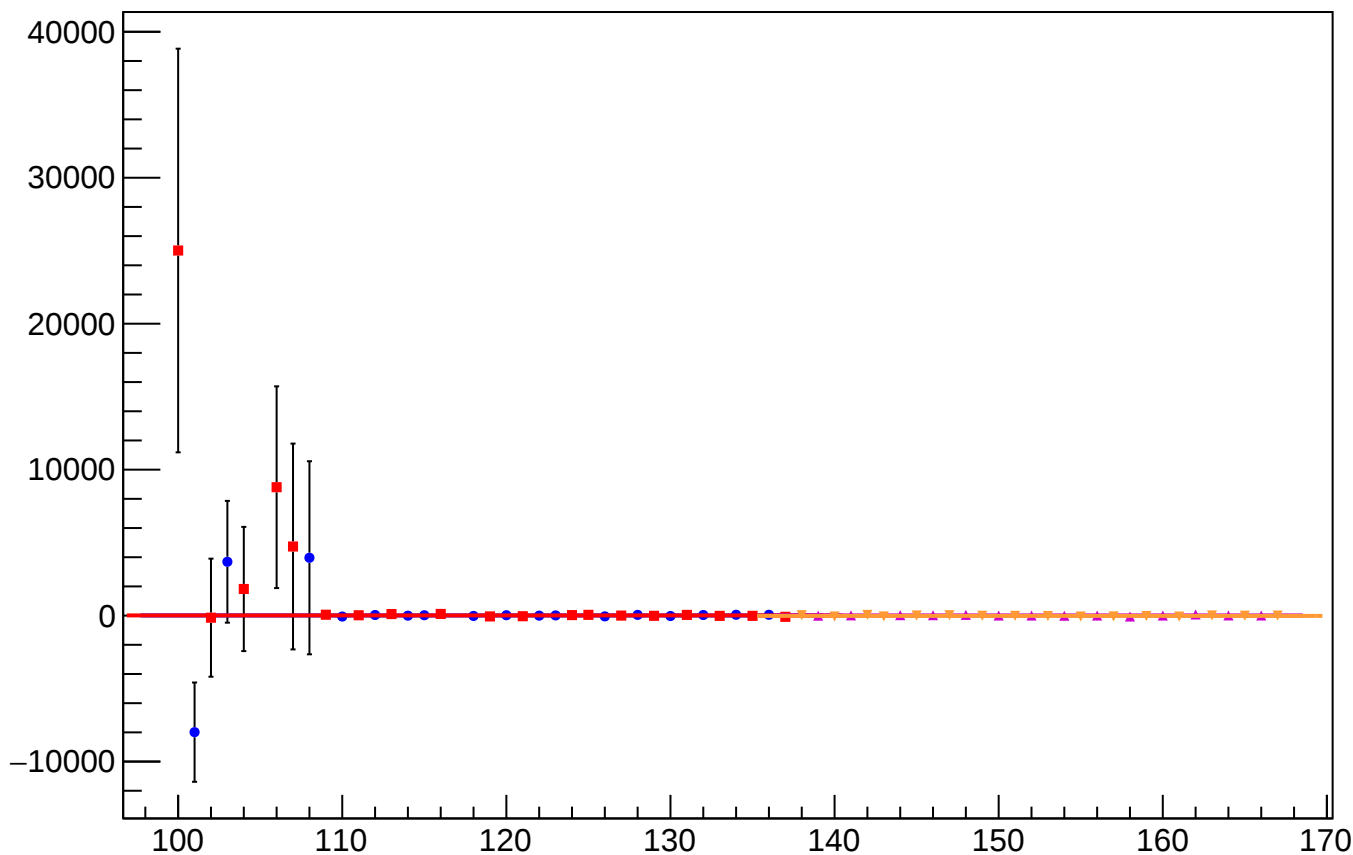
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 186.180+/-0.035 χ^2/NDF : 4877379.2/30

Out: 204.490+/-0.037 χ^2/NDF : 5670897.1/34

All: 194.795+/-0.025 χ^2/NDF : 10679187.9/65

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: -18.445+/-8.440 χ^2/NDF : 16.1/15

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: -3.403+/-6.104 χ^2/NDF : 36.5/29

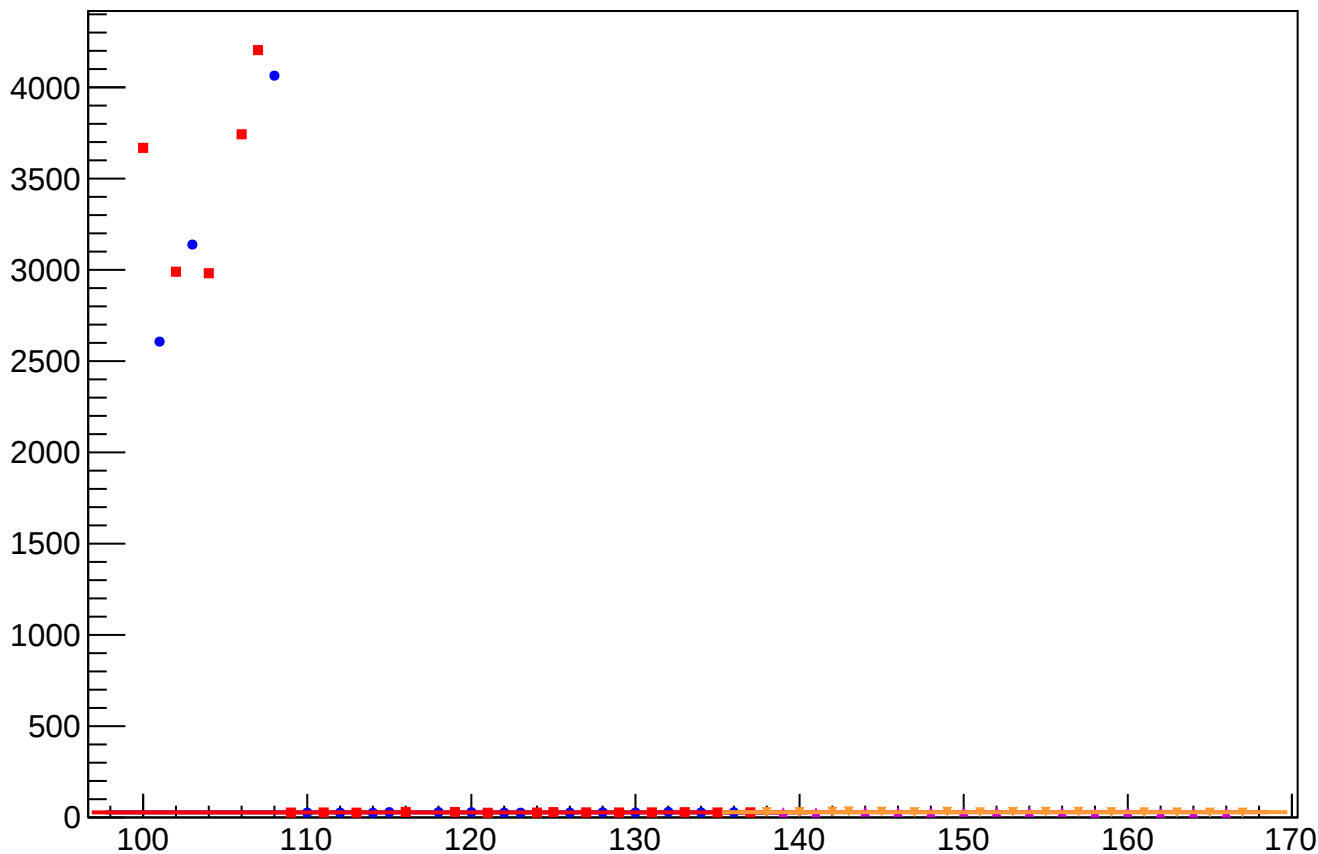
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 12.162+/-7.155 χ^2/NDF : 32.1/30

Out: -8.314+/-6.946 χ^2/NDF : 44.9/34

All: 1.621+/-4.984 χ^2/NDF : 81.3/65

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837 $\pm$ 0.009 χ^2 /NDF: 3026887.2/16

Left Out: 29.027 $\pm$ 0.006 χ^2 /NDF: 91936.8/15

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 29.002 $\pm$ 0.006 χ^2 /NDF: 106025.4/13

Left: 29.015 $\pm$ 0.004 χ^2 /NDF: 197970.2/29

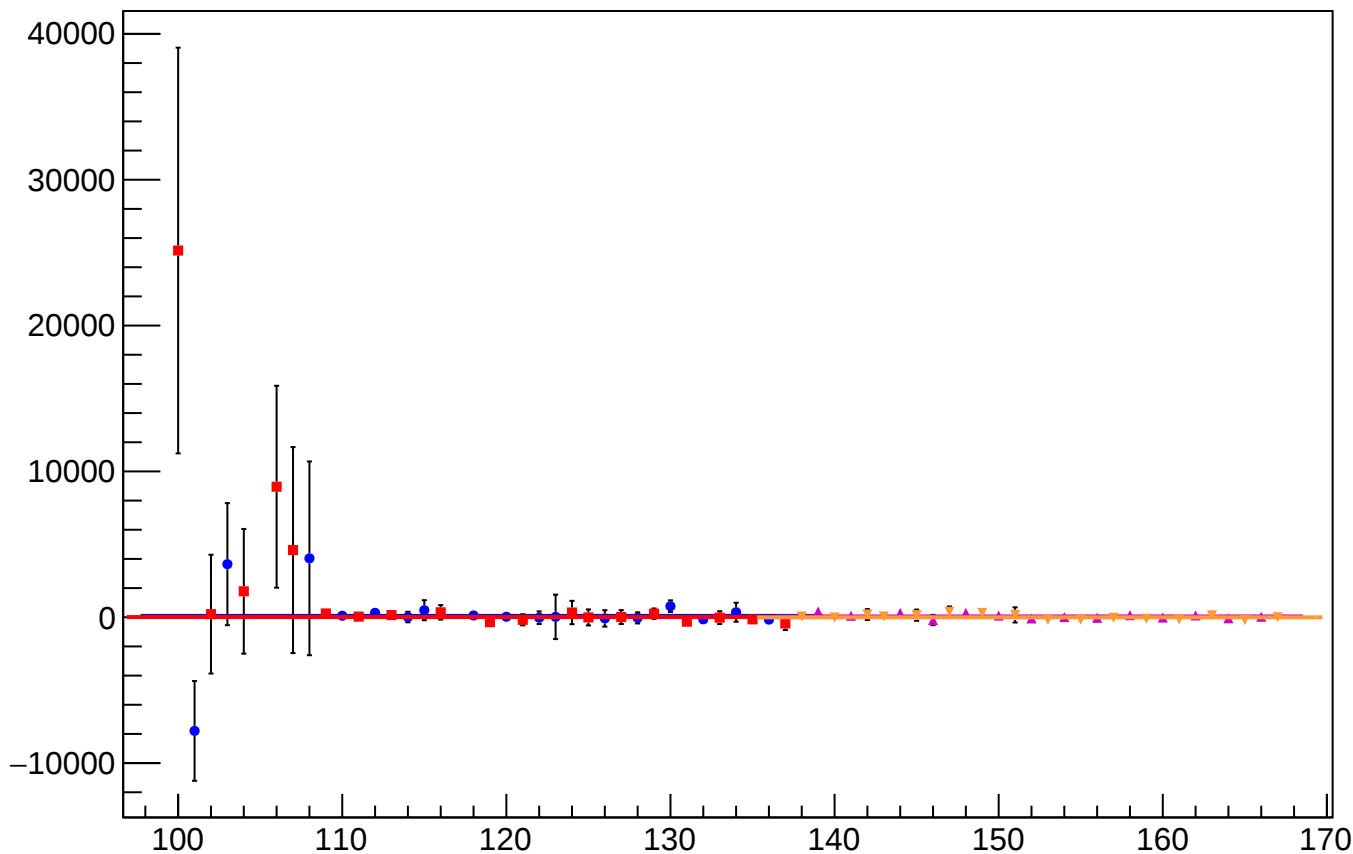
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.601 $\pm$ 0.005 χ^2 /NDF: 3144904.9/30

Out: 28.597 $\pm$ 0.005 χ^2 /NDF: 3584832.0/34

All: 28.599 $\pm$ 0.004 χ^2 /NDF: 6729737.2/65

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: -4.895+/-67.906 χ^2/NDF : 5.3/15

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: 29.501+/-44.600 χ^2/NDF : 10.8/29

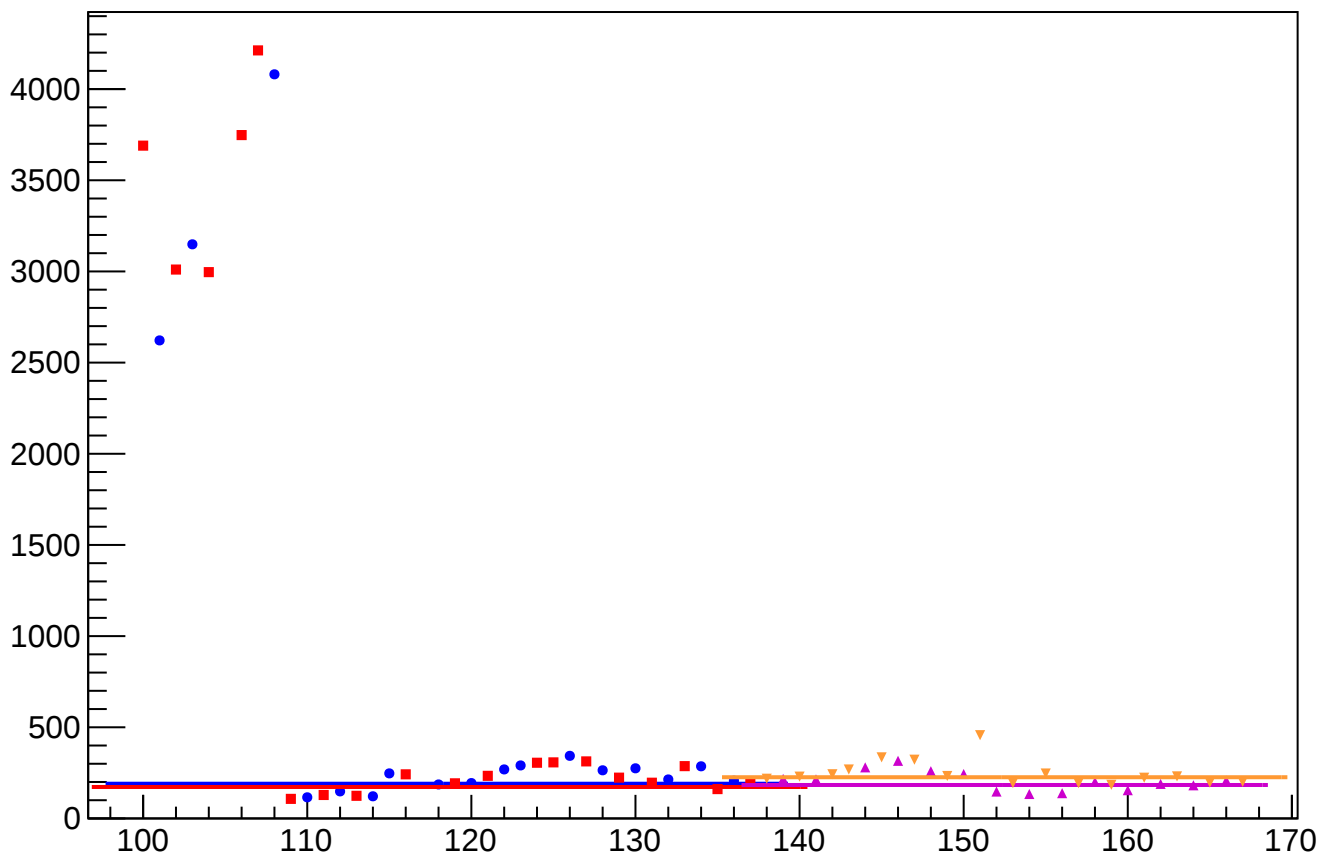
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 67.301+/-48.976 χ^2/NDF : 17.7/30

Out: 2.435+/-51.942 χ^2/NDF : 18.0/34

All: 36.773+/-35.634 χ^2/NDF : 36.6/65

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: 226.091+/-0.048 χ^2/NDF : 954936.9/15

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: 201.888+/-0.032 χ^2/NDF : 2697733.5/29

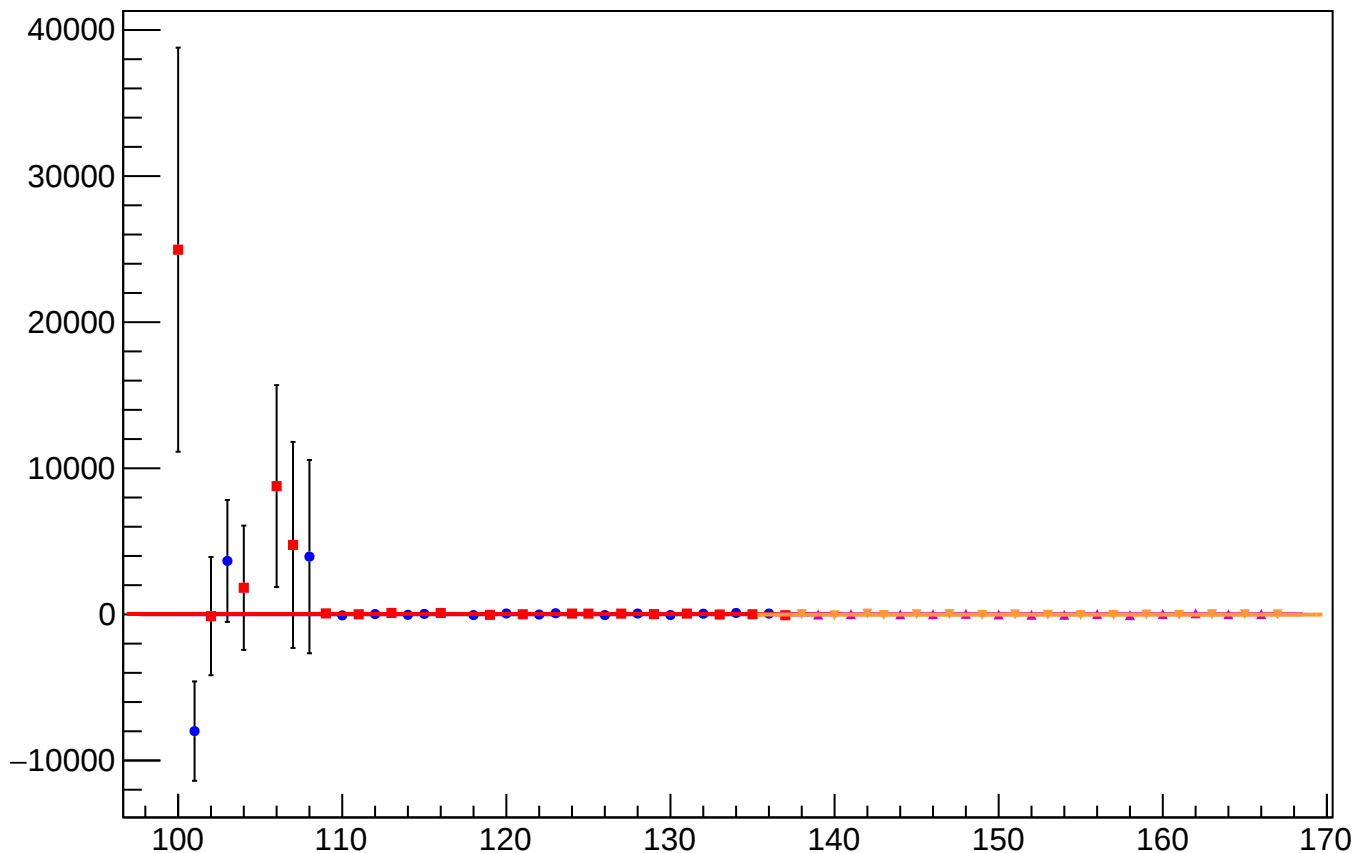
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 185.714+/-0.035 χ^2/NDF : 4888249.9/30

Out: 203.898+/-0.037 χ^2/NDF : 5688187.5/34

All: 194.272+/-0.025 χ^2/NDF : 10706198.6/65

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: -13.471 $\pm$ 8.505 χ^2 /NDF:10.5/15

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: -1.126 $\pm$ 6.148 χ^2 /NDF: 27.8/29

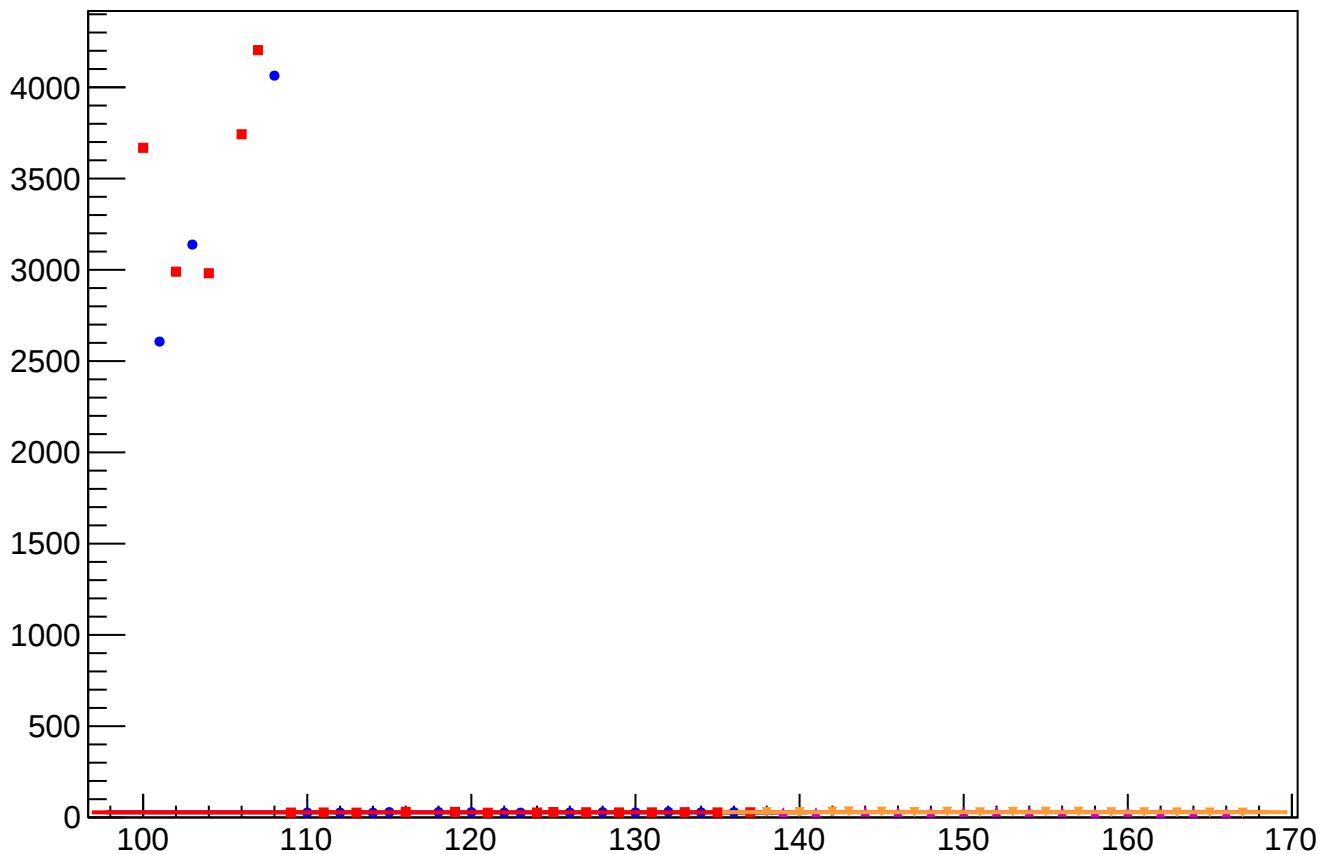
Right: 19.569 $\pm$ 8.698 χ^2 /NDF: 41.1/35

In: 11.423 $\pm$ 7.203 χ^2 /NDF:36.1/30

Out: 0.427 $\pm$ 7.001 χ^2 /NDF:35.3/34

All: 5.768 $\pm$ 5.020 χ^2 /NDF: 72.7/65

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023 $\pm$ 0.009 χ^2 /NDF: 3027003.0/16

Left Out: 29.245 $\pm$ 0.006 χ^2 /NDF: 96139.0/15

Right Out: 27.917 $\pm$ 0.009 χ^2 /NDF: 3479610.6/18

Left In: 29.198 $\pm$ 0.006 χ^2 /NDF: 105815.3/13

Left: 29.223 $\pm$ 0.004 χ^2 /NDF: 201984.5/29

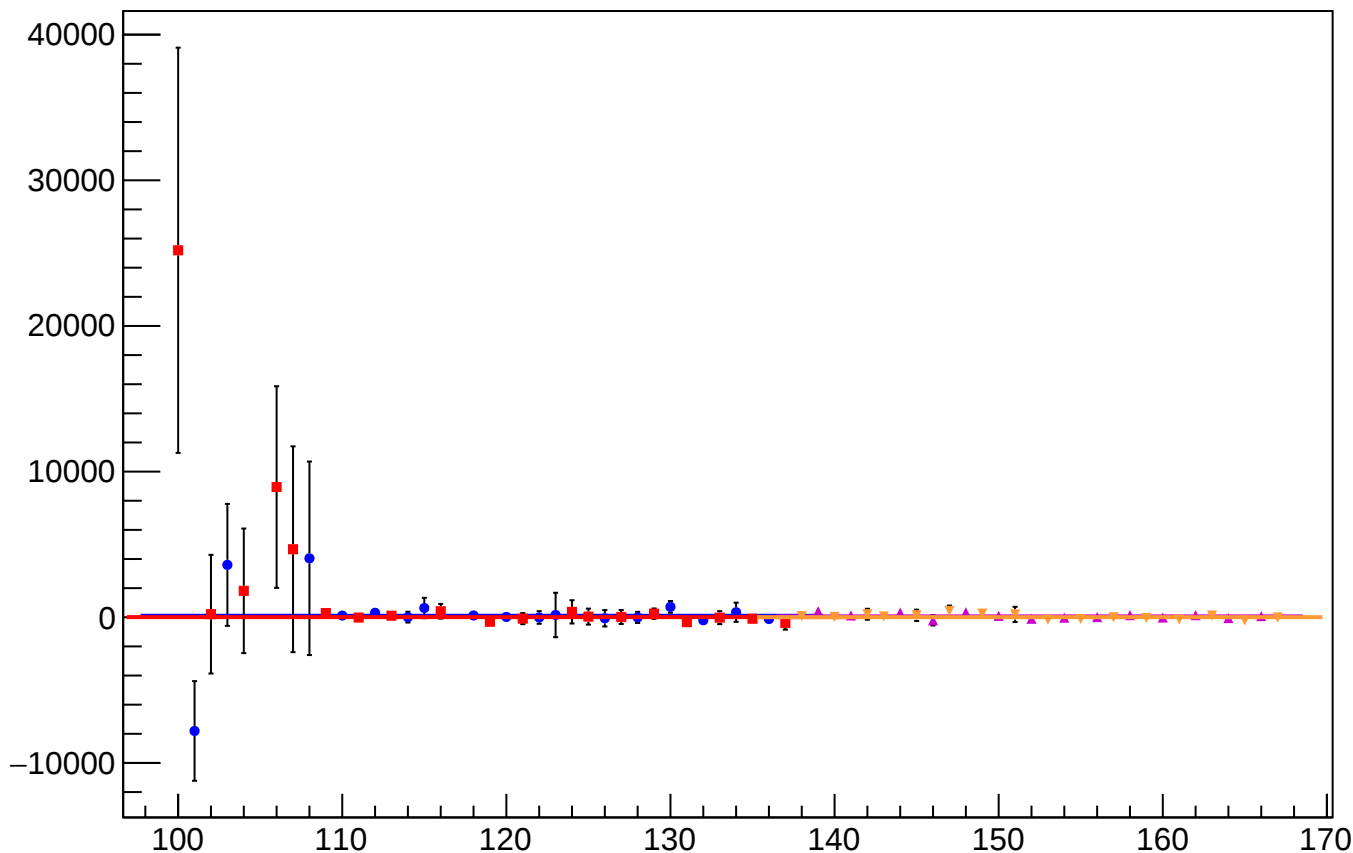
Right: 27.970 $\pm$ 0.006 χ^2 /NDF: 6506687.7/35

In: 28.793 $\pm$ 0.005 χ^2 /NDF: 3144828.6/30

Out: 28.817 $\pm$ 0.005 χ^2 /NDF: 3591481.9/34

All: 28.805 $\pm$ 0.004 χ^2 /NDF: 6736322.0/65

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: 8.718 $\pm$ 68.664 χ^2 /NDF:5.0/15

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: 39.605 $\pm$ 45.171 χ^2 /NDF: 11.1/29

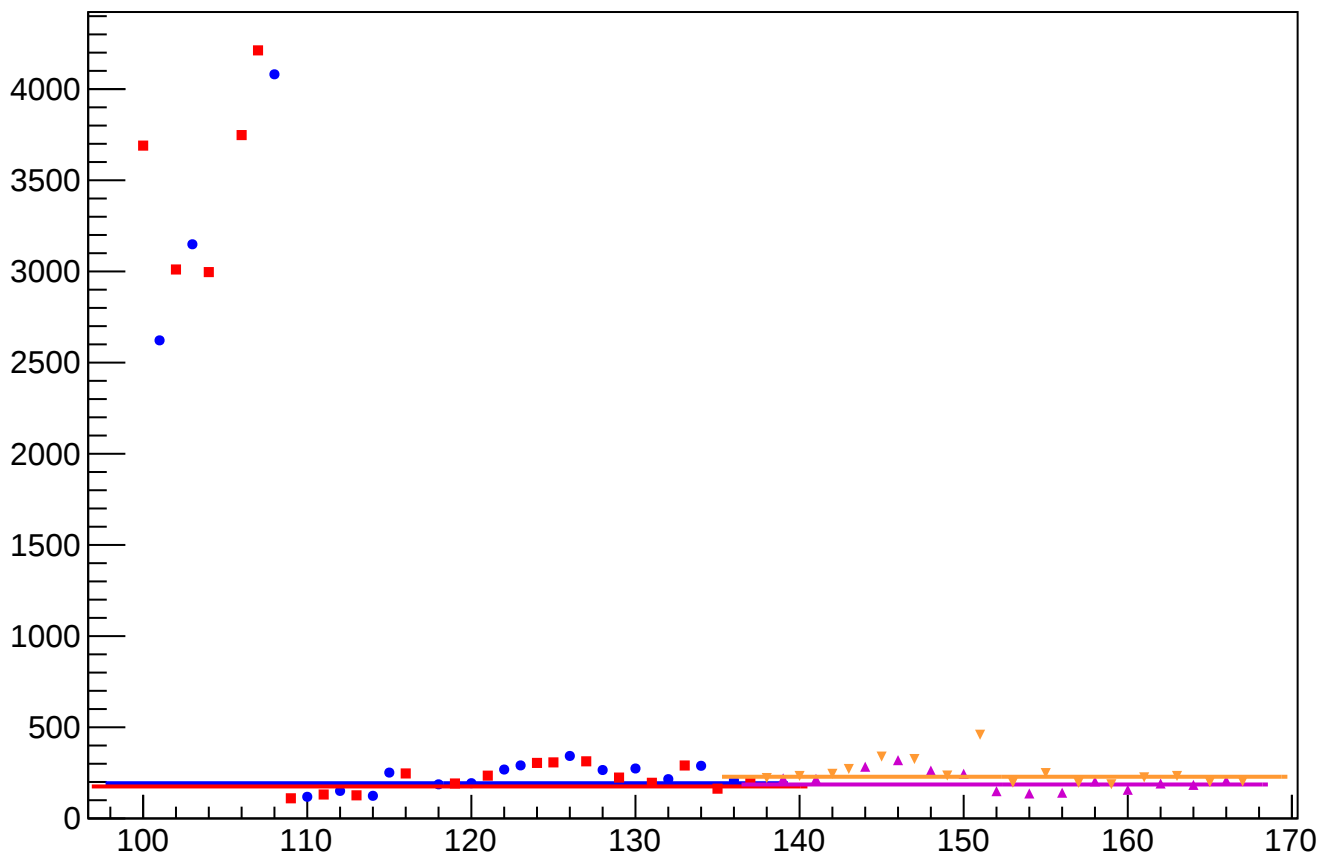
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 75.341 $\pm$ 49.630 χ^2 /NDF:18.2/30

Out: 9.757 $\pm$ 52.572 χ^2 /NDF:17.3/34

All: 44.435 $\pm$ 36.089 χ^2 /NDF: 36.3/65

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: 228.709+/-0.049 χ^2/NDF : 948242.5/15

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: 204.662+/-0.032 χ^2/NDF : 2648118.6/29

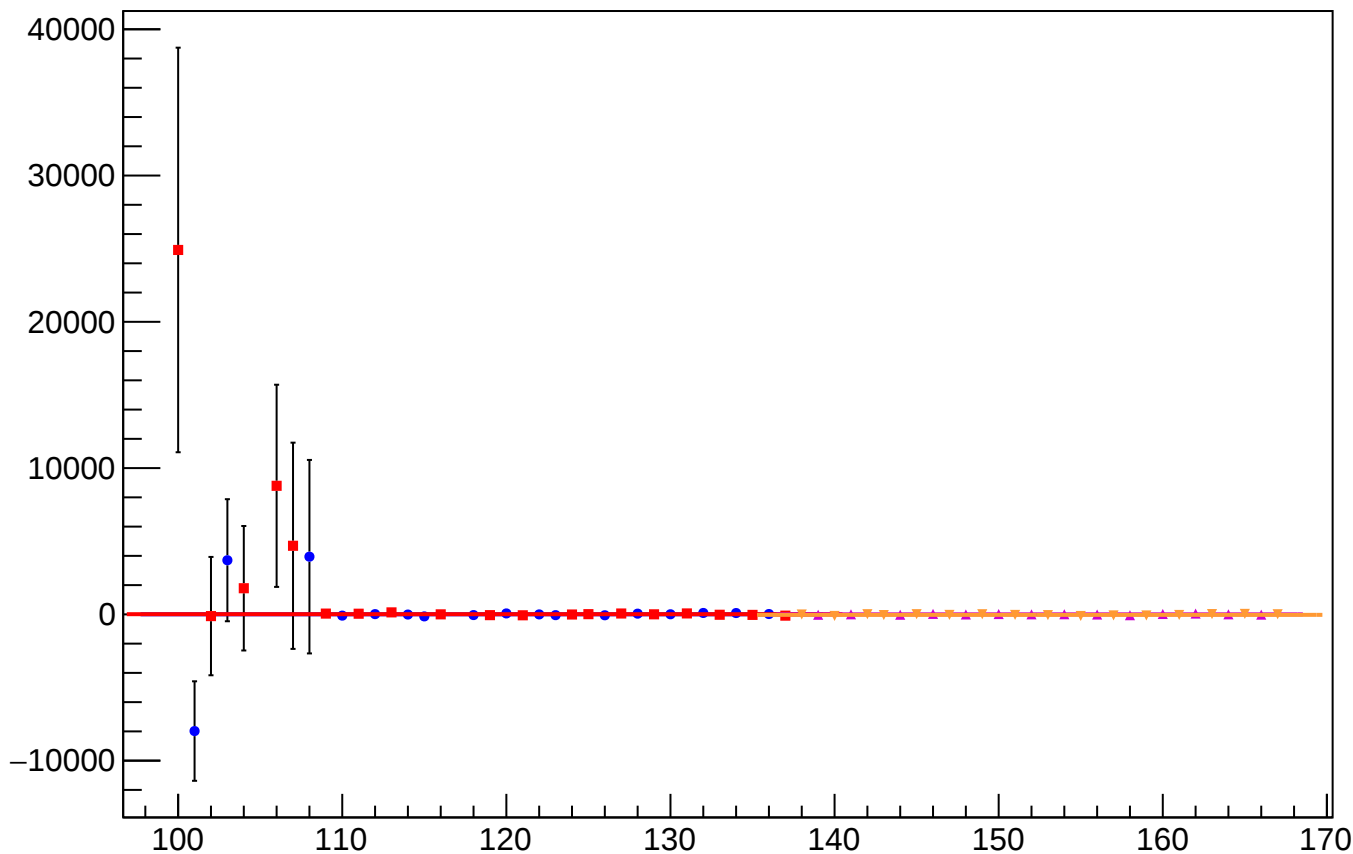
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 188.482+/-0.035 χ^2/NDF : 4811829.7/30

Out: 206.686+/-0.037 χ^2/NDF : 5610859.4/34

All: 197.060+/-0.026 χ^2/NDF : 10549481.3/65

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: -32.488+/-10.082 χ^2/NDF : 18.3/15

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: -15.874+/-7.289 χ^2/NDF : 31.3/29

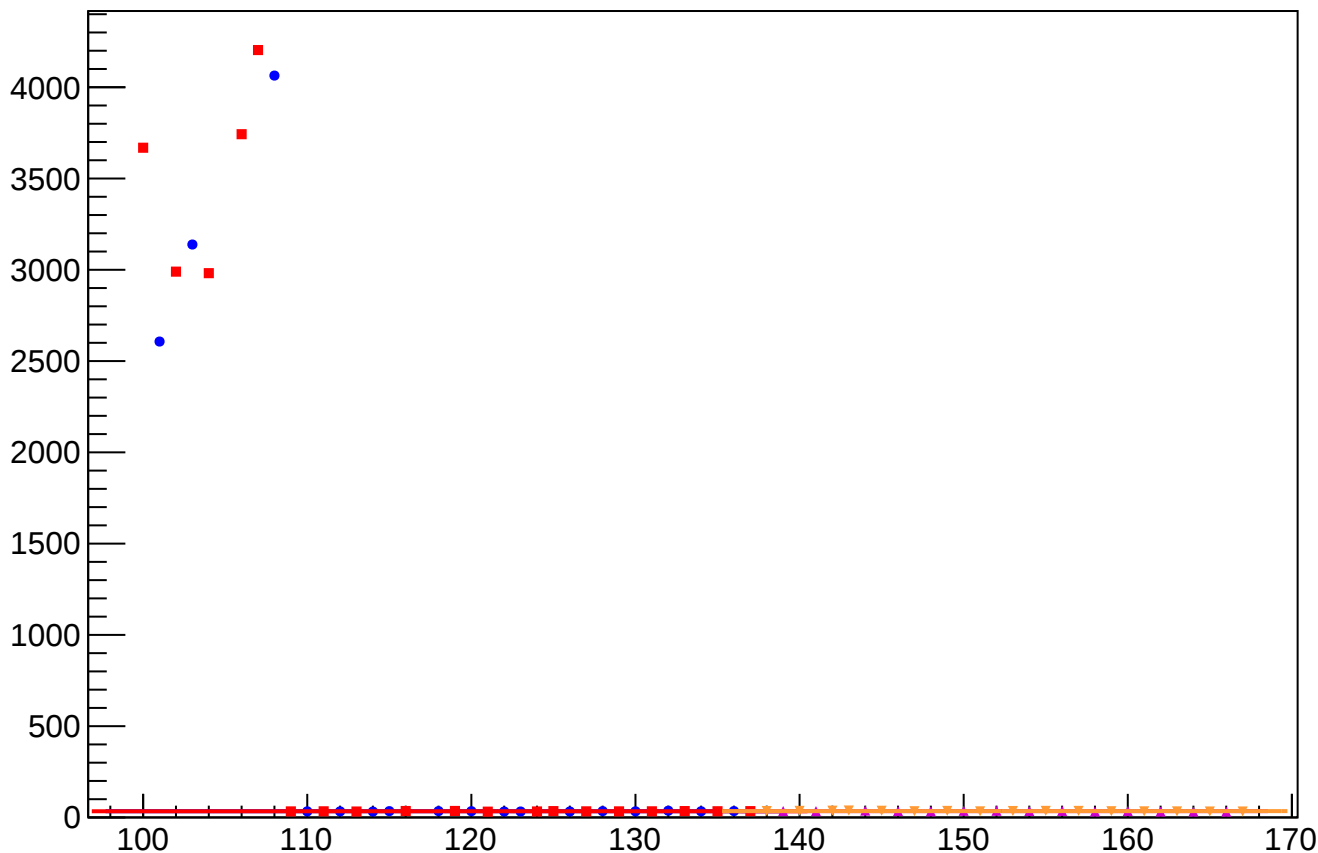
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: 3.096+/-8.618 χ^2/NDF : 27.7/30

Out: -18.424+/-8.359 χ^2/NDF : 46.2/34

All: -7.992+/-6.000 χ^2/NDF : 77.1/65

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: 34.731 $\pm$ 0.007 χ^2 /NDF:46656.3/15

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: 34.714 $\pm$ 0.005 χ^2 /NDF: 98074.5/29

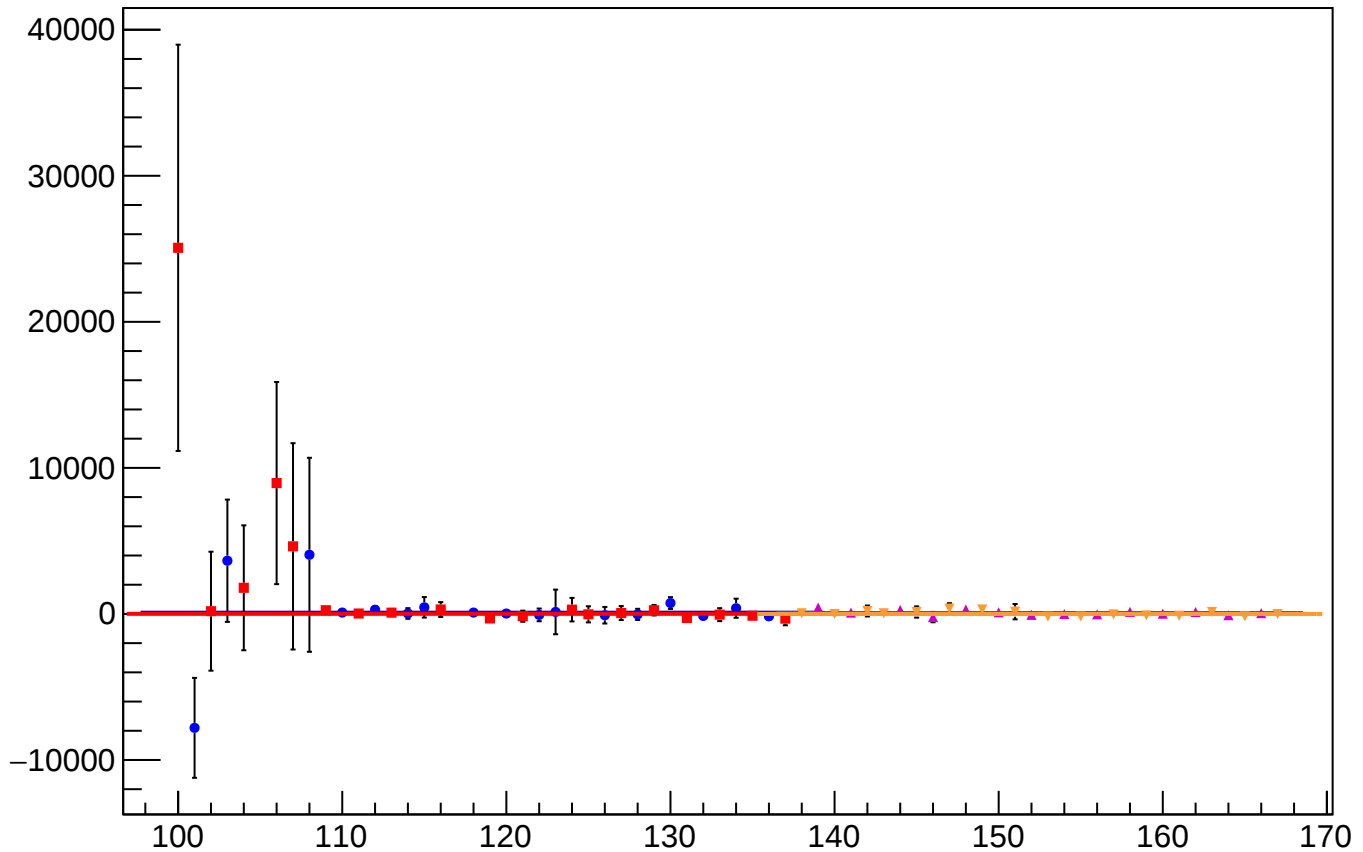
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.510 $\pm$ 0.006 χ^2 /NDF:3059526.8/30

Out: 34.475 $\pm$ 0.006 χ^2 /NDF:3502662.0/34

All: 34.492 $\pm$ 0.004 χ^2 /NDF: 6562206.4/65

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041 $\pm$ 87.947 χ^2 /NDF: 12.4/16

Left Out: -1.111 $\pm$ 68.539 χ^2 /NDF:5.1/15

Right Out: 7.296 $\pm$ 81.208 χ^2 /NDF: 11.1/18

Left In: 60.152 $\pm$ 59.820 χ^2 /NDF:5.2/13

Left: 33.663 $\pm$ 45.068 χ^2 /NDF: 10.8/29

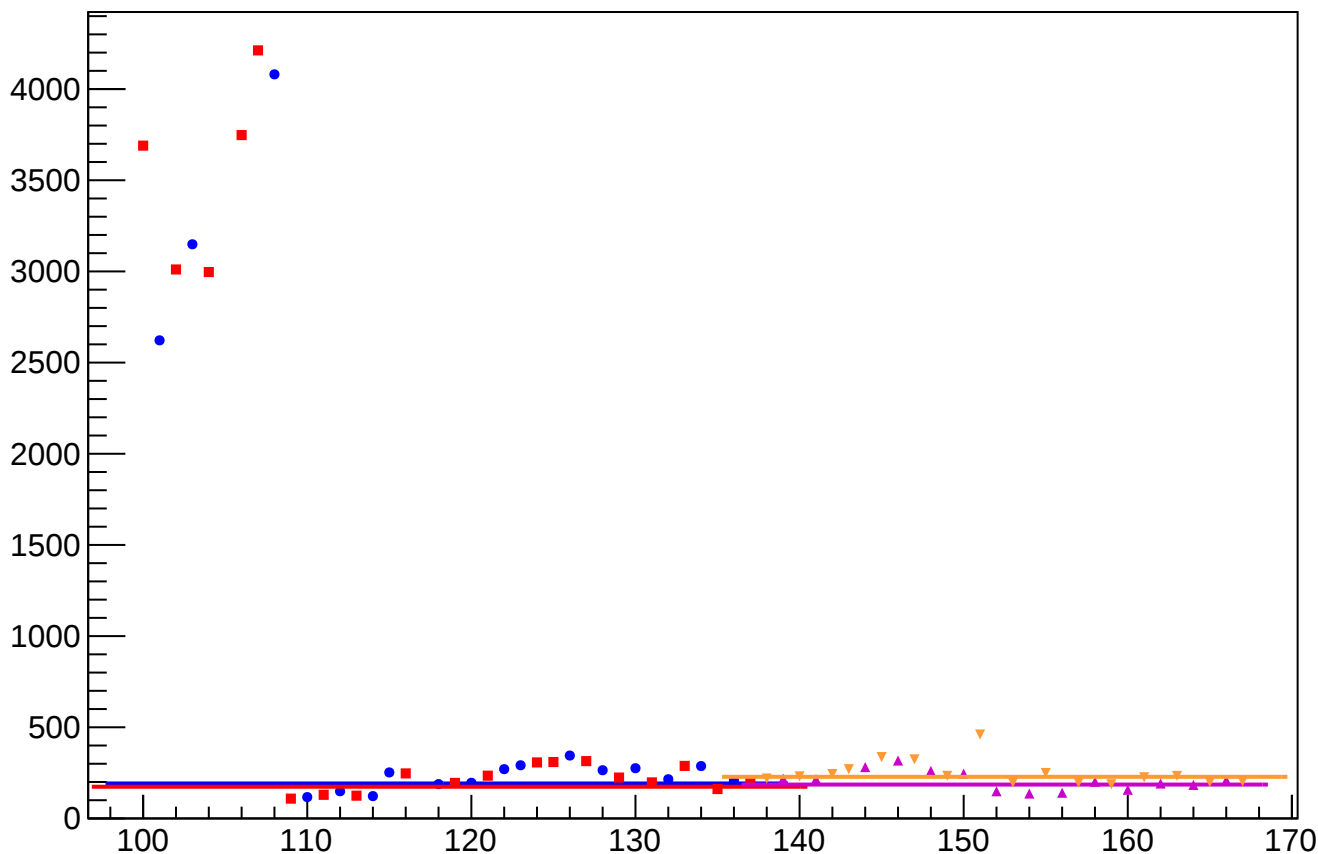
Right: 43.536 $\pm$ 59.663 χ^2 /NDF: 23.9/35

In: 68.341 $\pm$ 49.463 χ^2 /NDF:17.7/30

Out: 2.386 $\pm$ 52.377 χ^2 /NDF:16.2/34

All: 37.250 $\pm$ 35.962 χ^2 /NDF: 34.7/65

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: 228.323+/-0.048 χ^2/NDF : 937129.4/15

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: 204.209+/-0.032 χ^2/NDF : 2628103.9/29

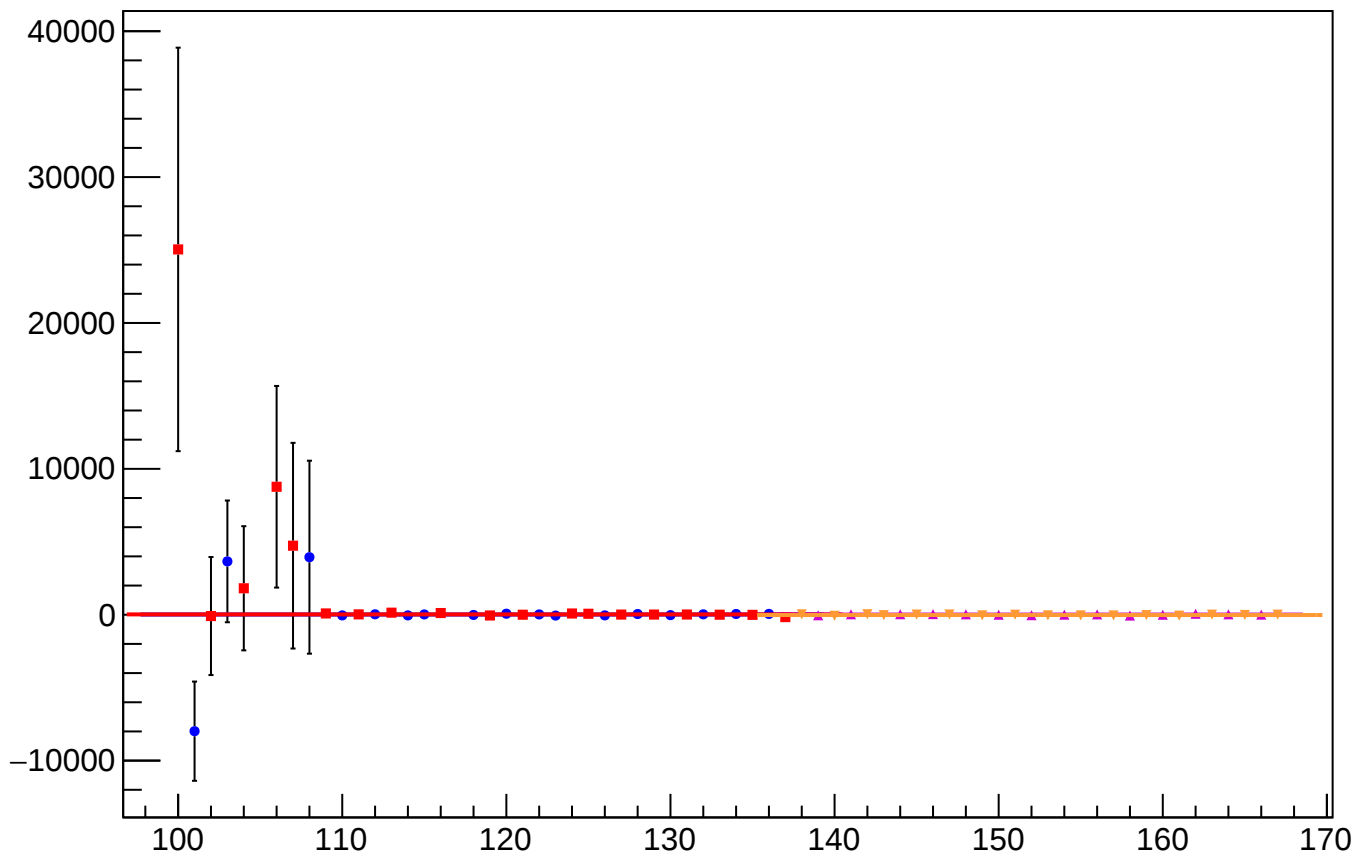
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 187.750+/-0.035 χ^2/NDF : 4834309.2/30

Out: 205.695+/-0.037 χ^2/NDF : 5672561.8/34

All: 196.209+/-0.025 χ^2/NDF : 10630966.4/65

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: -20.399+/-9.155 χ^2/NDF :11.6/15

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: -5.140+/-6.615 χ^2/NDF : 30.1/29

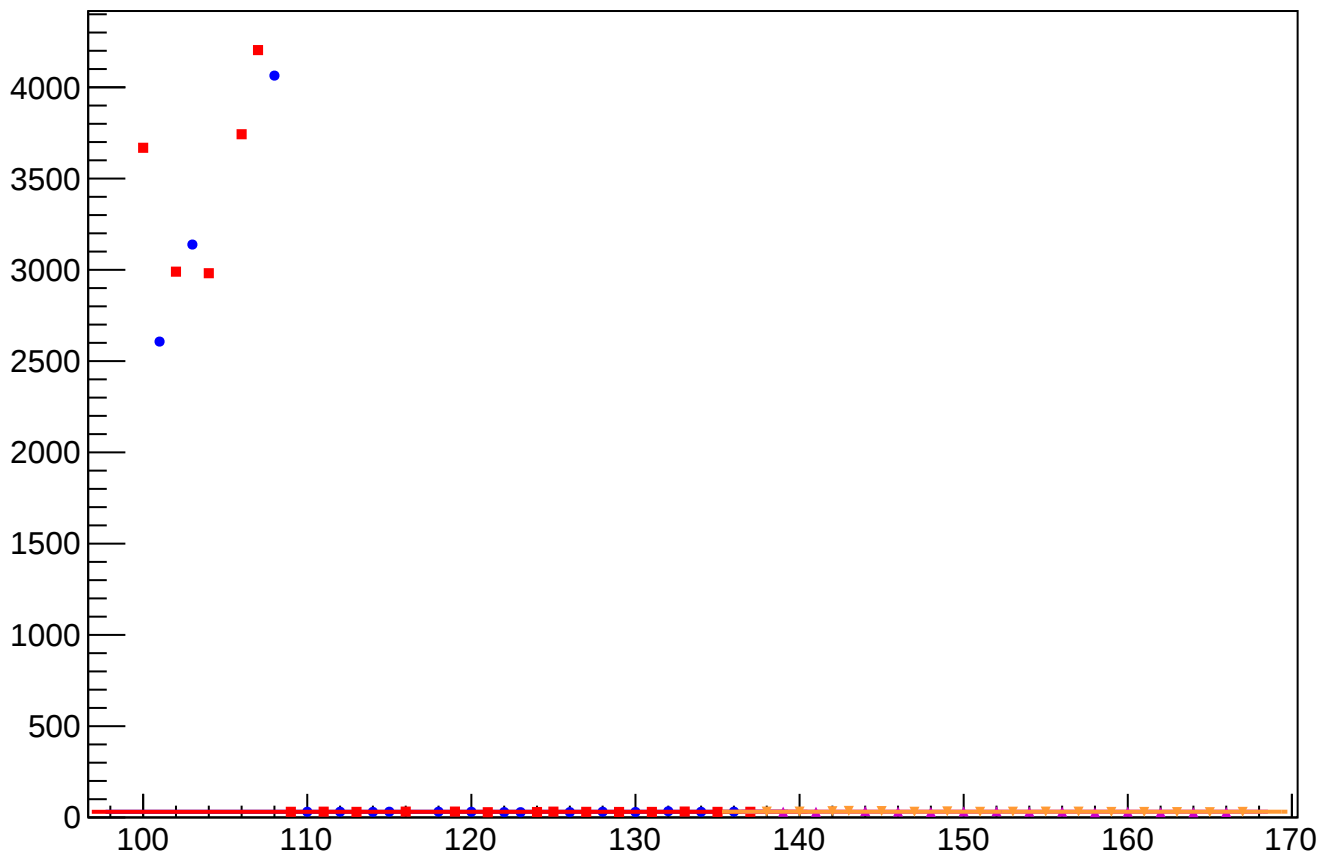
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 12.384+/-7.829 χ^2/NDF :27.9/30

Out: -6.826+/-7.604 χ^2/NDF :46.2/34

All: 2.500+/-5.455 χ^2/NDF : 77.2/65

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: 31.502 $\pm$ 0.006 χ^2 /NDF: 71898.9/15

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: 31.460 $\pm$ 0.005 χ^2 /NDF: 151630.9/29

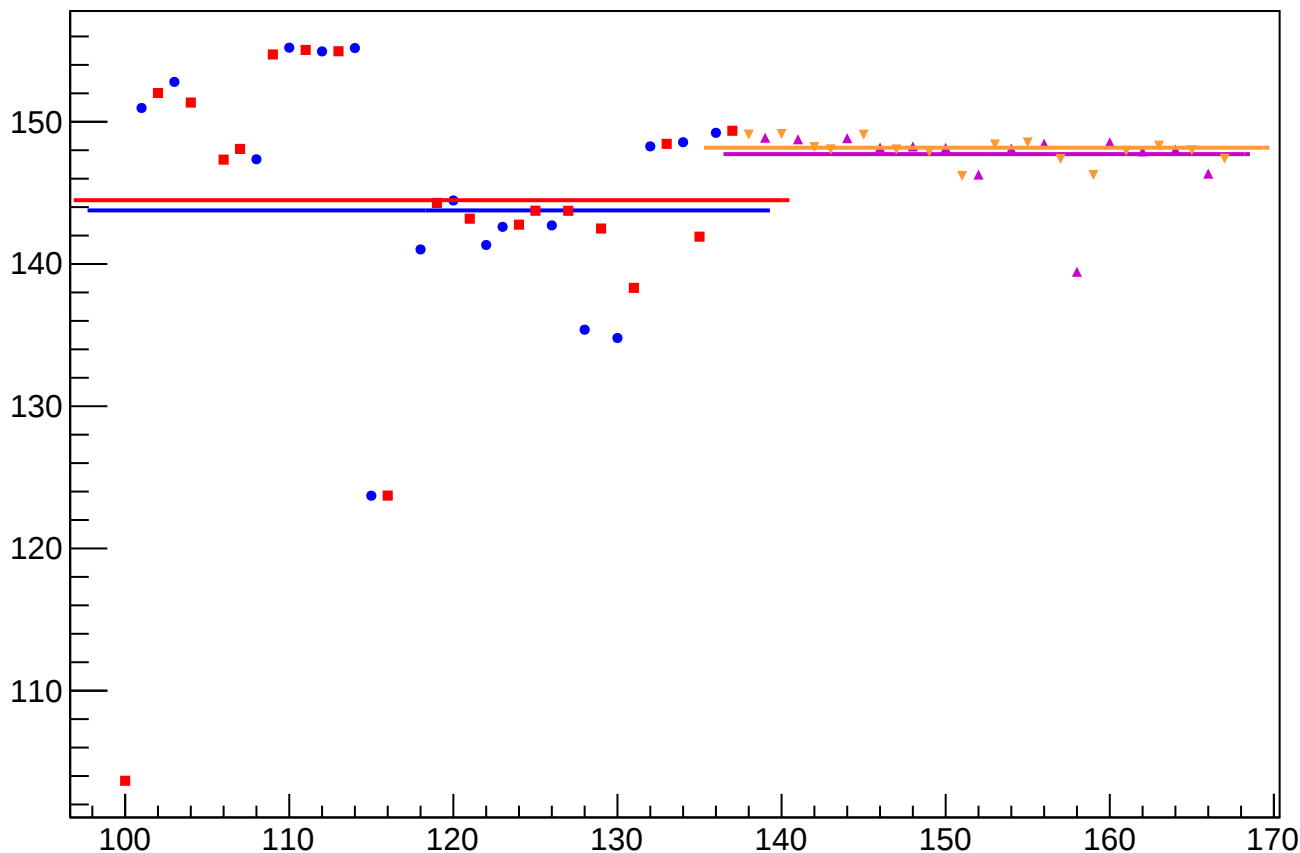
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.320 $\pm$ 0.006 χ^2 /NDF: 3094669.6/30

Out: 31.335 $\pm$ 0.005 χ^2 /NDF: 3532994.9/34

All: 31.328 $\pm$ 0.004 χ^2 /NDF: 6627668.5/65

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000

χ^2 /NDF: 3532173868.5/16

Left: 147.963 $\pm$ 0.000

χ^2 /NDF: 383301905.1/29

Left Out: 148.177 $\pm$ 0.000

χ^2 /NDF: 52452126.2/15

Right: 144.130 $\pm$ 0.000

χ^2 /NDF: 7730221597.0/35

Right Out: 144.486 $\pm$ 0.000

χ^2 /NDF: 4183608291.3/18

In: 145.886 $\pm$ 0.000

χ^2 /NDF: 4322696382.6/30

Out: 146.538 $\pm$ 0.000

χ^2 /NDF: 4664671394.8/34

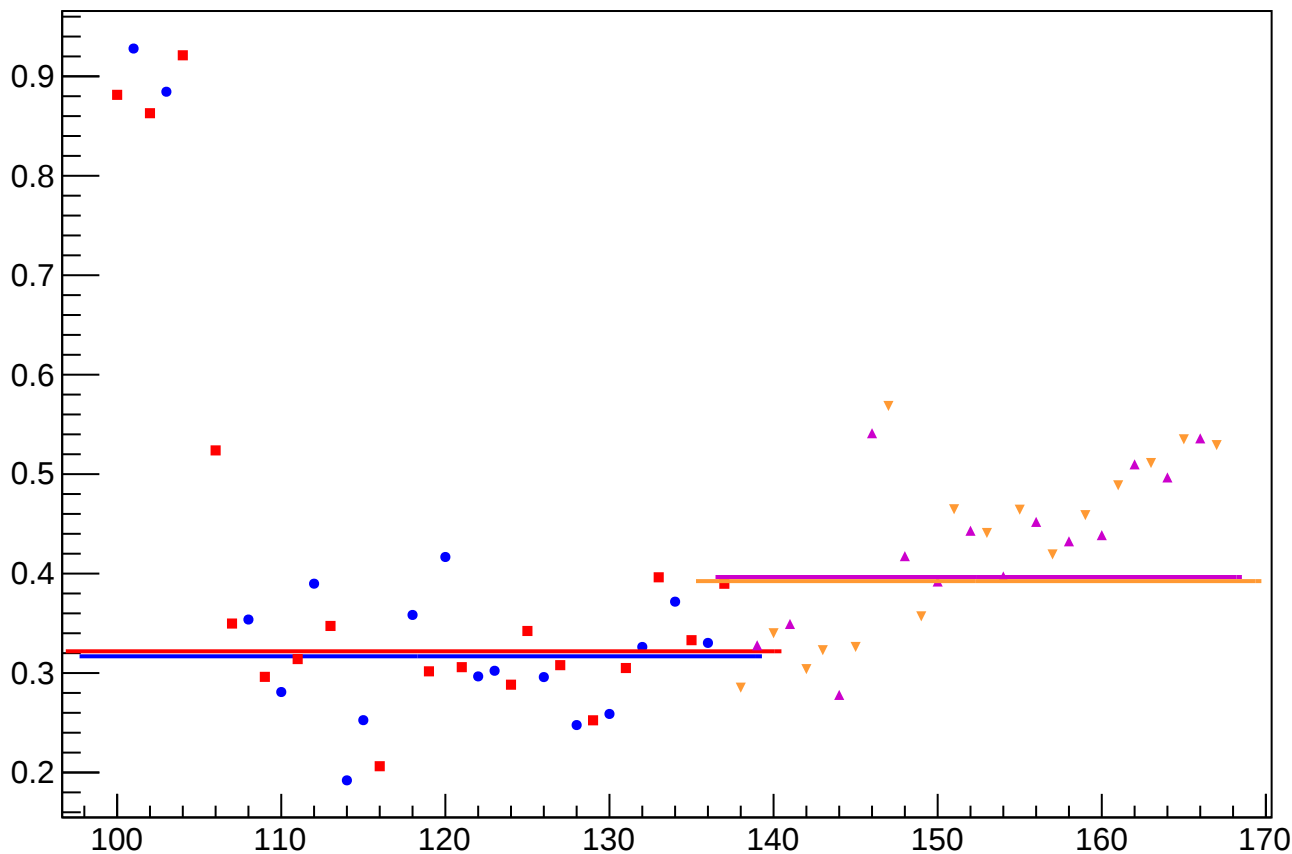
Left In: 147.726 $\pm$ 0.000

χ^2 /NDF: 324015859.4/13

All: 146.222 $\pm$ 0.000

χ^2 /NDF: 9013594266.6

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.392 $\pm$ 0.000 χ^2 /NDF:1037052.2/15

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: 0.394 $\pm$ 0.000 χ^2 /NDF: 1803924.5/29

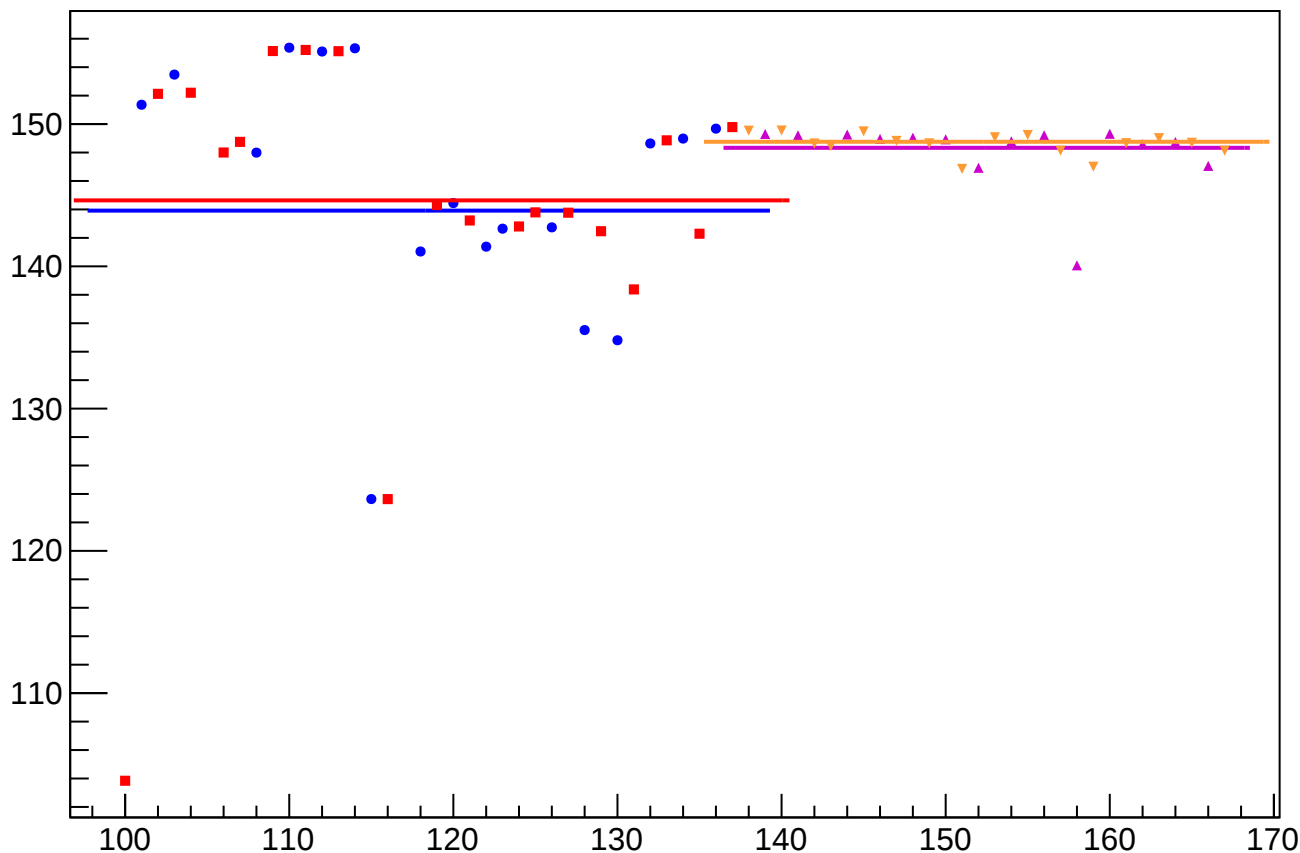
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.359 $\pm$ 0.000 χ^2 /NDF:2423155.1/30

Out: 0.361 $\pm$ 0.000 χ^2 /NDF:2568034.1/34

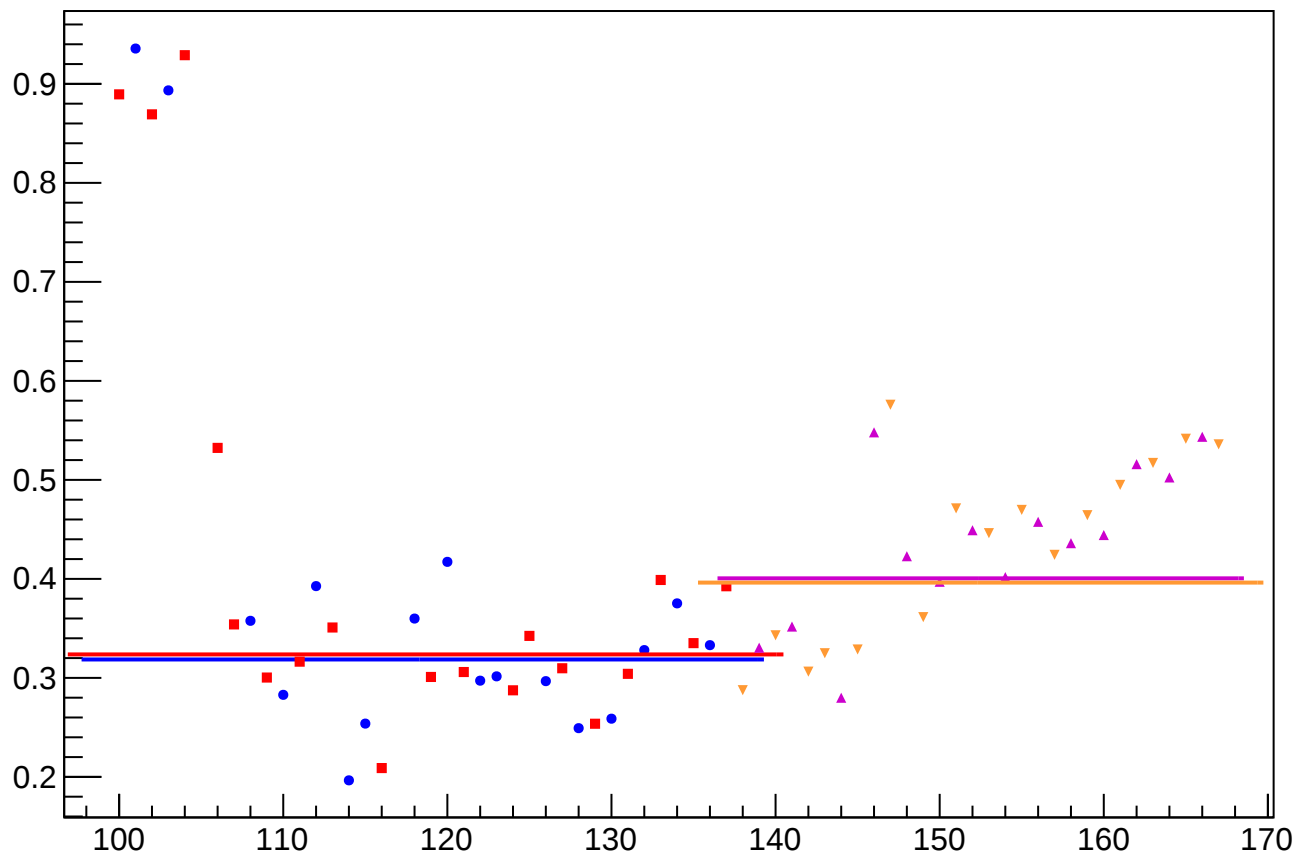
All: 0.360 $\pm$ 0.000 χ^2 /NDF: 4991506.1/65

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000	χ^2 /NDF: 3584662767.5/16	Left: 148.554 $\pm$ 0.000	χ^2 /NDF: 359893671.6/29
Left Out: 148.756 $\pm$ 0.000	χ^2 /NDF: 40946884.6/15	Right: 144.280 $\pm$ 0.000	χ^2 /NDF: 7809567994.8/35
Right Out: 144.637 $\pm$ 0.000	χ^2 /NDF: 4210524953.9/18	In: 146.268 $\pm$ 0.000	χ^2 /NDF: 4468911180.6/30
Left In: 148.331 $\pm$ 0.000	χ^2 /NDF: 312983815.8/13	Out: 146.918 $\pm$ 0.000	χ^2 /NDF: 4777128995.0/34
		All: 146.603 $\pm$ 0.000	χ^2 /NDF: 9271700526.7

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2 /NDF: 1280748.9/16

Left Out: 0.396 $\pm$ 0.000 χ^2 /NDF:1056155.3/15

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: 0.398 $\pm$ 0.000 χ^2 /NDF: 1839467.0/29

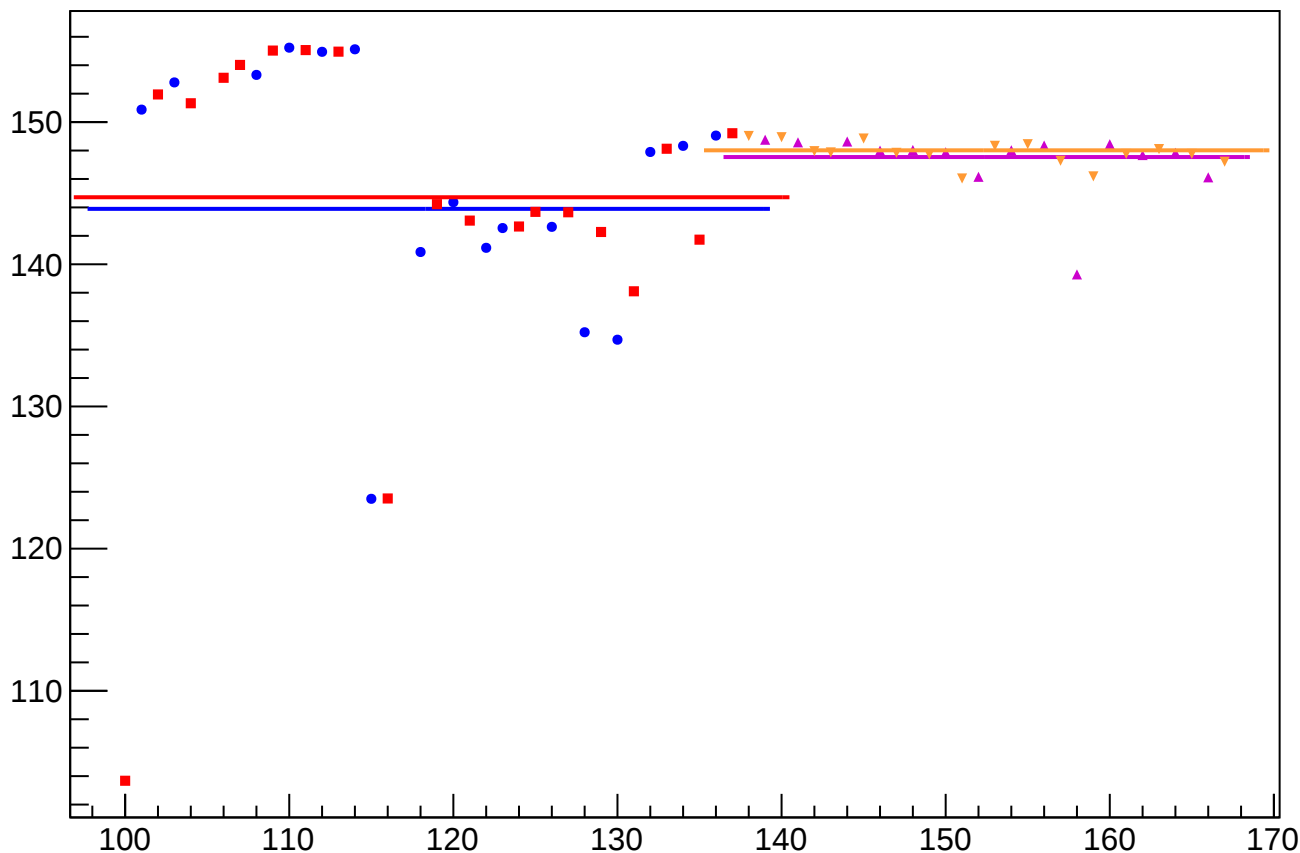
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2503090.8/35

In: 0.362 $\pm$ 0.000 χ^2 /NDF:2456536.0/30

Out: 0.364 $\pm$ 0.000 χ^2 /NDF:2603161.3/34

All: 0.363 $\pm$ 0.000 χ^2 /NDF: 5060021.4/65

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 +/- 0.000 χ^2/NDF : 3749888331.0/16

Left Out: 148.015 +/- 0.000 χ^2/NDF : 50924807.6/15

Right Out: 144.715 +/- 0.000 χ^2/NDF : 4474458988.7/18

Left In: 147.543 +/- 0.000 χ^2/NDF : 322863084.8/13

Left: 147.791 +/- 0.000 χ^2/NDF : 381245246.4/29

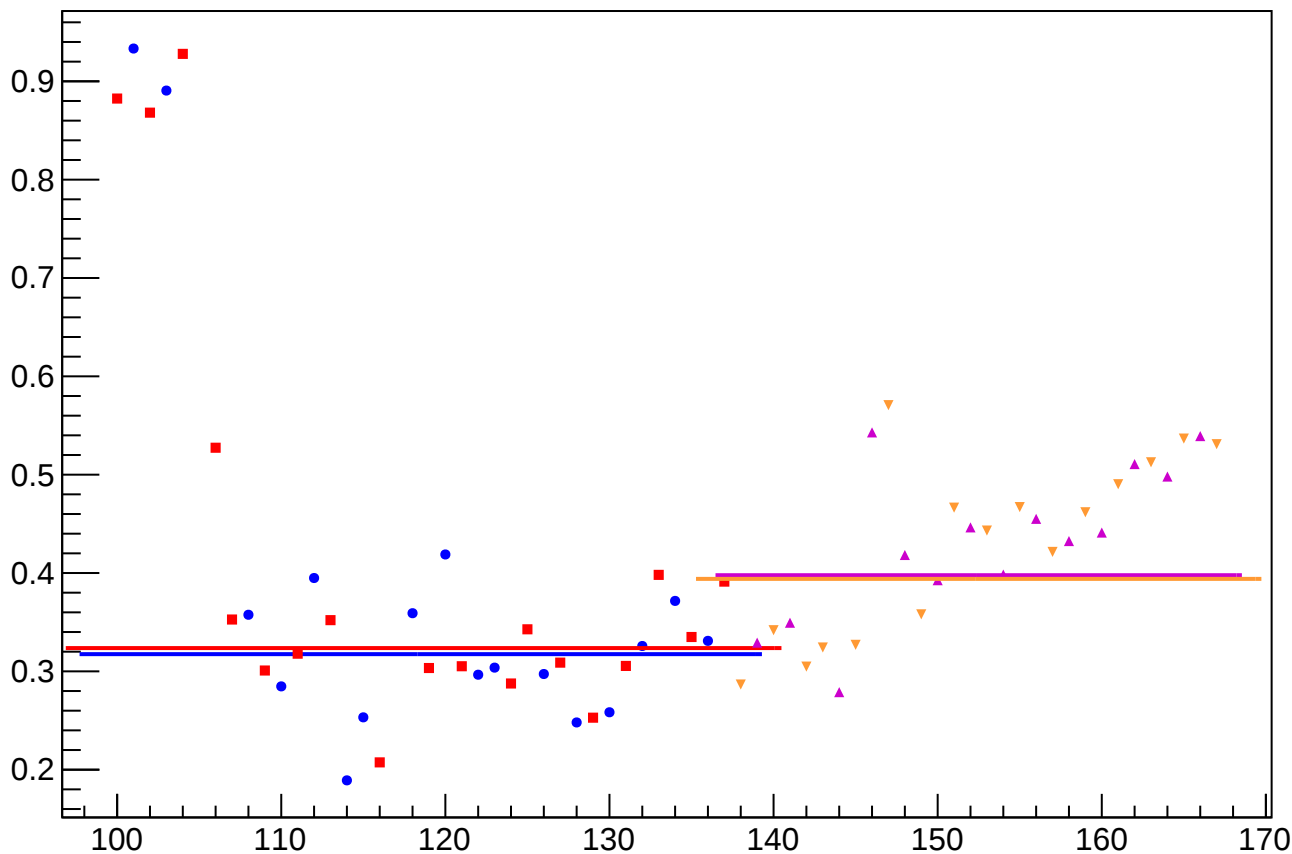
Right: 144.309 +/- 0.000 χ^2/NDF : 8242891510.2/35

In: 145.848 +/- 0.000 χ^2/NDF : 4465844990.7/30

Out: 146.552 +/- 0.000 χ^2/NDF : 4864645256.1/34

All: 146.211 +/- 0.000 χ^2/NDF : 9360833321.1

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.394+/-0.000 χ^2/NDF : 1037990.5/15

Right Out: 0.324+/-0.000 χ^2/NDF : 1221676.7/18

Left In: 0.398+/-0.000 χ^2/NDF : 770263.0/13

Left: 0.396+/-0.000 χ^2/NDF : 1809185.0/29

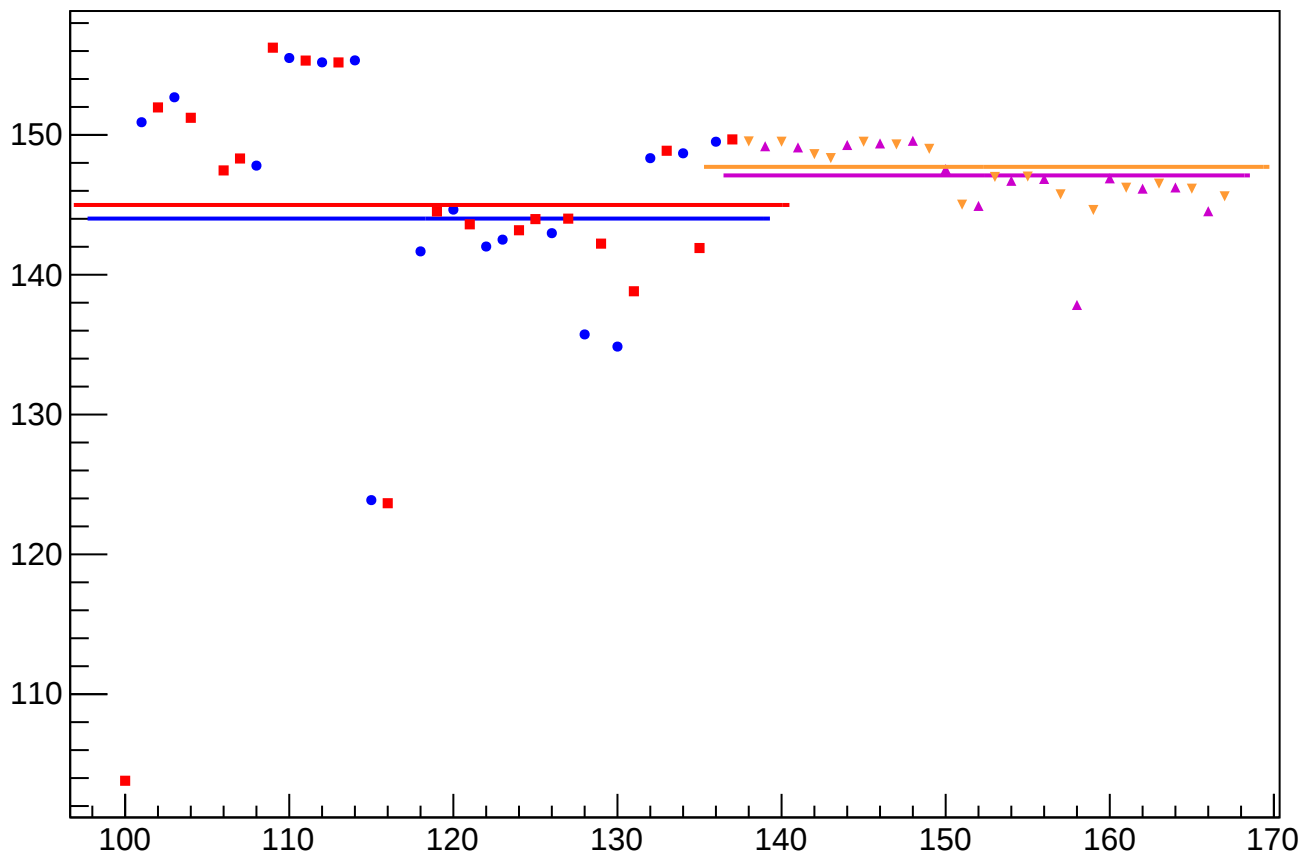
Right: 0.321+/-0.000 χ^2/NDF : 2516974.9/35

In: 0.360+/-0.000 χ^2/NDF : 2444980.0/30

Out: 0.363+/-0.000 χ^2/NDF : 2568203.8/34

All: 0.362+/-0.000 χ^2/NDF : 5013886.1/65

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 ± 0.000 $\chi^2/\text{NDF}: 3238525527.6/16$

Left Out: 147.716 ± 0.000 $\chi^2/\text{NDF}: 189460291.5/15$

Right Out: 144.990 ± 0.000 $\chi^2/\text{NDF}: 3853449012.9/18$

Left In: 147.104 ± 0.000 $\chi^2/\text{NDF}: 497635333.3/13$

Left: 147.425 ± 0.000 $\chi^2/\text{NDF}: 698725760.1/29$

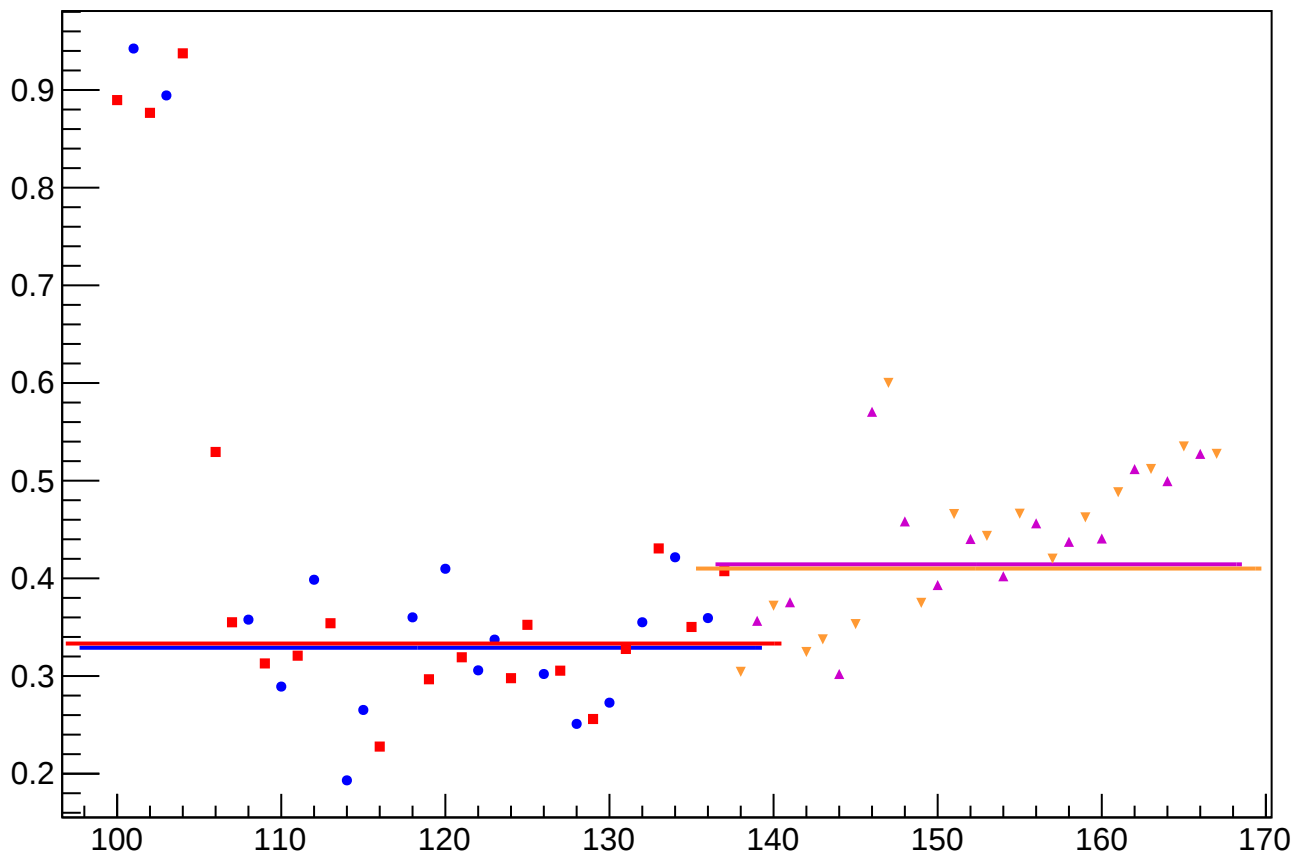
Right: 144.510 ± 0.000 $\chi^2/\text{NDF}: 7116582298.0/35$

In: 145.669 ± 0.000 $\chi^2/\text{NDF}: 3998043832.5/30$

Out: 146.499 ± 0.000 $\chi^2/\text{NDF}: 4259697843.7/34$

All: 146.097 ± 0.000 $\chi^2/\text{NDF}: 8297025752.3$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.410 $\pm$ 0.000 χ^2/NDF : 808148.7/15

Right Out: 0.333 $\pm$ 0.000 χ^2/NDF : 1182496.7/18

Left In: 0.414 $\pm$ 0.000 χ^2/NDF : 582512.4/13

Left: 0.412 $\pm$ 0.000 χ^2/NDF : 1391808.3/29

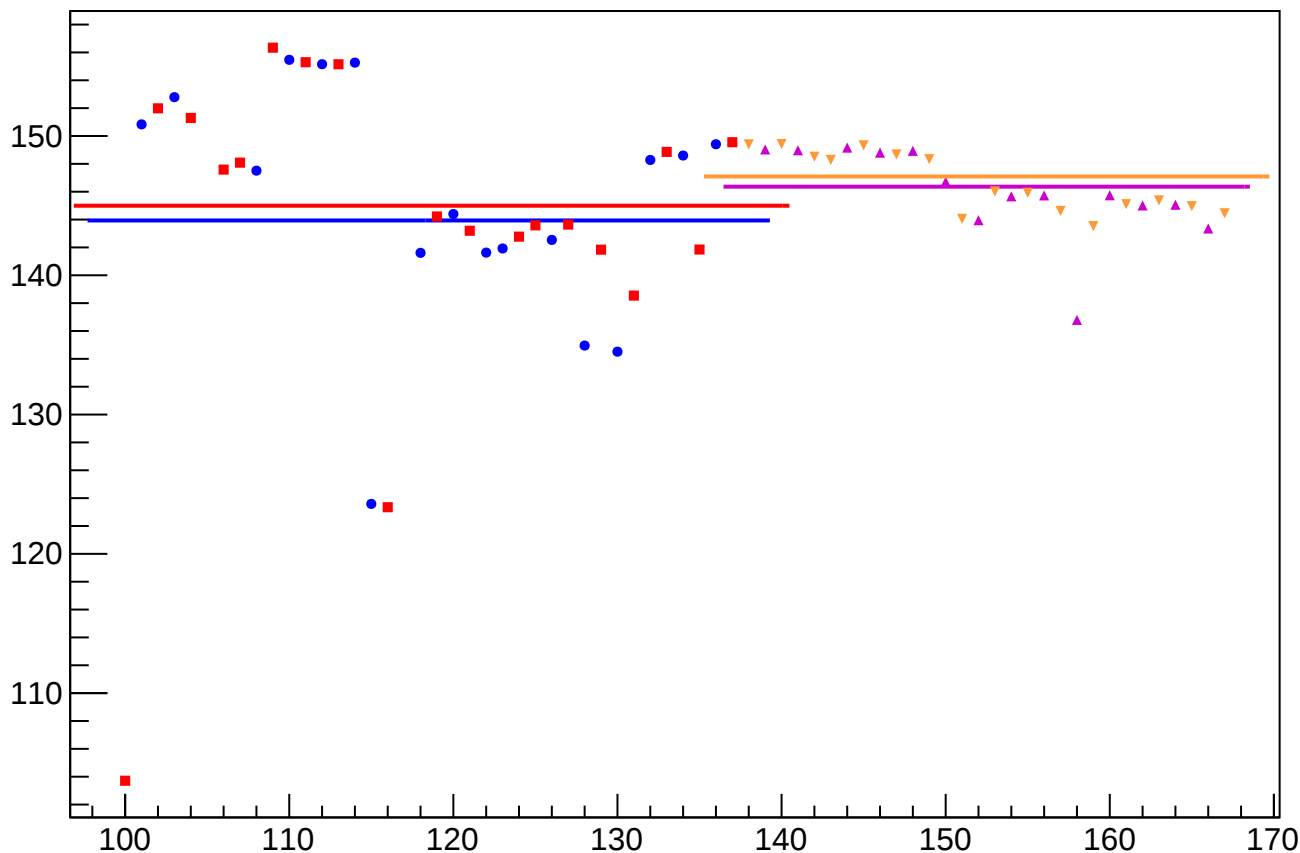
Right: 0.331 $\pm$ 0.000 χ^2/NDF : 2459580.1/35

In: 0.375 $\pm$ 0.000 χ^2/NDF : 2259417.9/30

Out: 0.376 $\pm$ 0.000 χ^2/NDF : 2334503.9/34

All: 0.375 $\pm$ 0.000 χ^2/NDF : 4594062.1/65

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 $\pm$ 0.000 χ^2 /NDF: 3379203532.9/16

Left Out: 147.094 $\pm$ 0.000 χ^2 /NDF: 290209981.7/15

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: 146.746 $\pm$ 0.000 χ^2 /NDF: 918263320.3/29

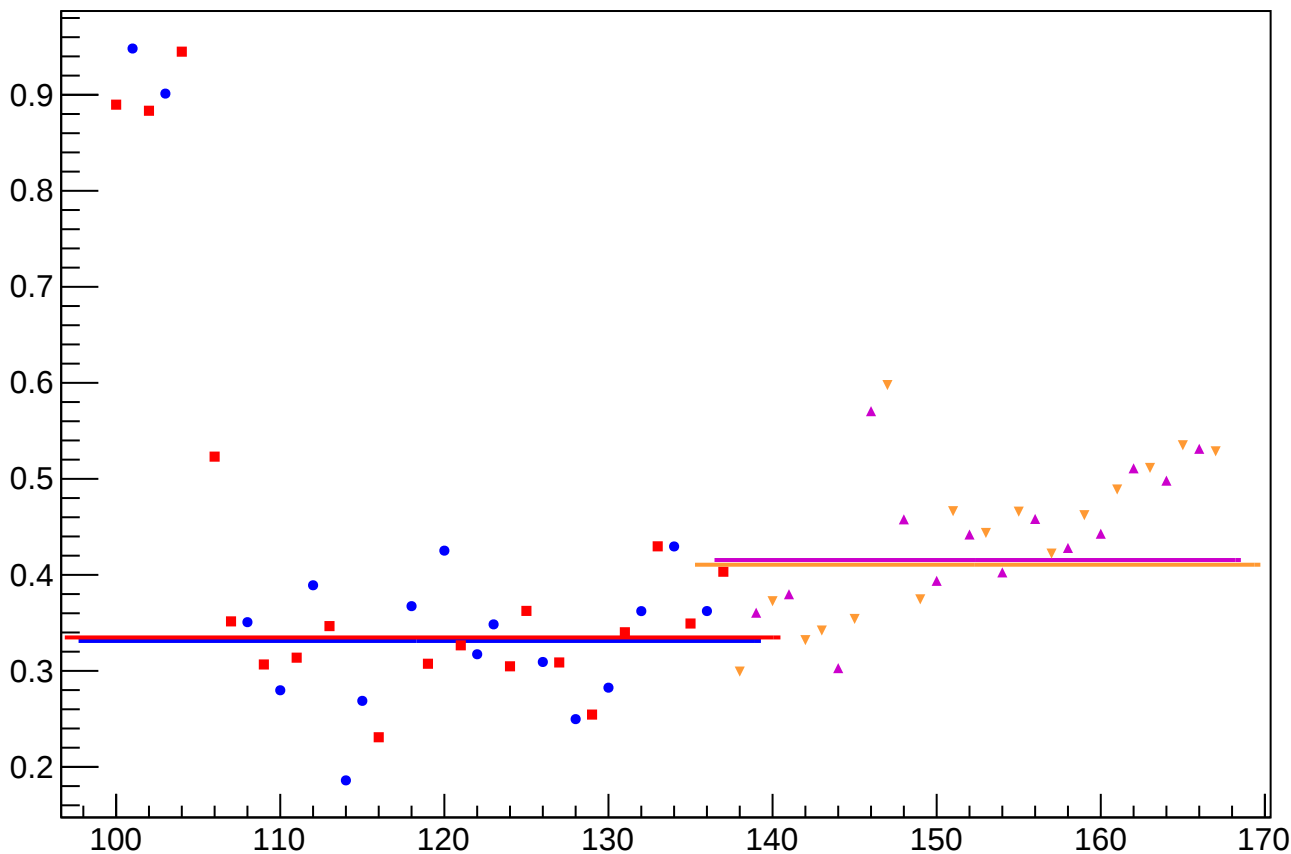
Right: 144.474 $\pm$ 0.000 χ^2 /NDF: 7341982360.6/35

In: 145.241 $\pm$ 0.000 χ^2 /NDF: 4150404238.5/30

Out: 146.160 $\pm$ 0.000 χ^2 /NDF: 4351789040.3/34

All: 145.716 $\pm$ 0.000 χ^2 /NDF: 8549978226.8

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.411+/-0.000 χ^2/NDF : 806706.6/15

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: 0.413+/-0.000 χ^2/NDF : 1375007.1/29

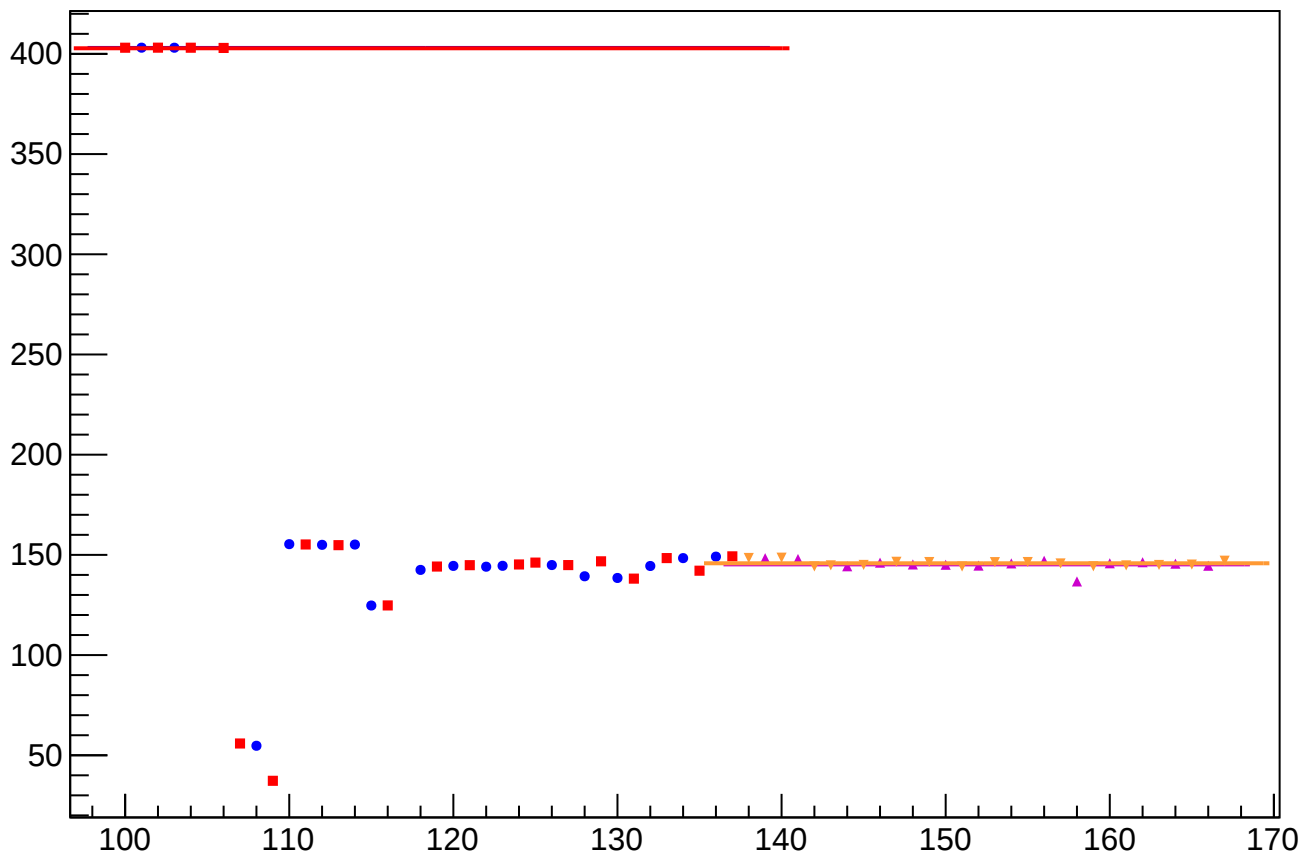
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.377+/-0.000 χ^2/NDF : 2248574.3/30

Out: 0.377+/-0.000 χ^2/NDF : 2311024.1/34

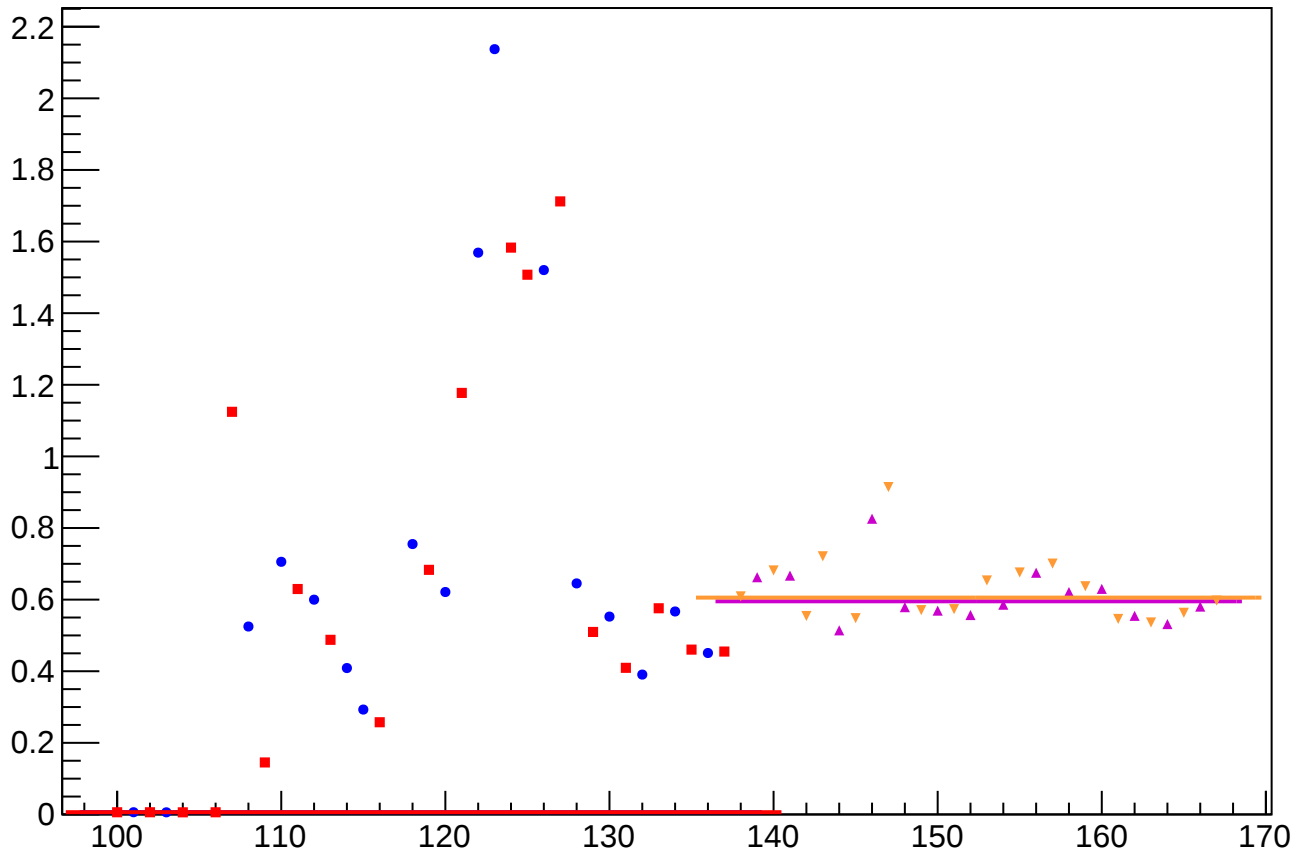
All: 0.377+/-0.000 χ^2/NDF : 4559614.3/65

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1096710296821.6/16	Left: 145.543+/-0.000	χ^2/NDF : 177537224.5/29
Left Out: 145.807+/-0.000	χ^2/NDF : 44279120.4/15	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: 402.630+/-0.000	χ^2/NDF : 4634672830147.6/30
		All: 402.699+/-0.000	χ^2/NDF : 717011255064.7/16

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 : 255524.1/15

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 : 446170.2/29

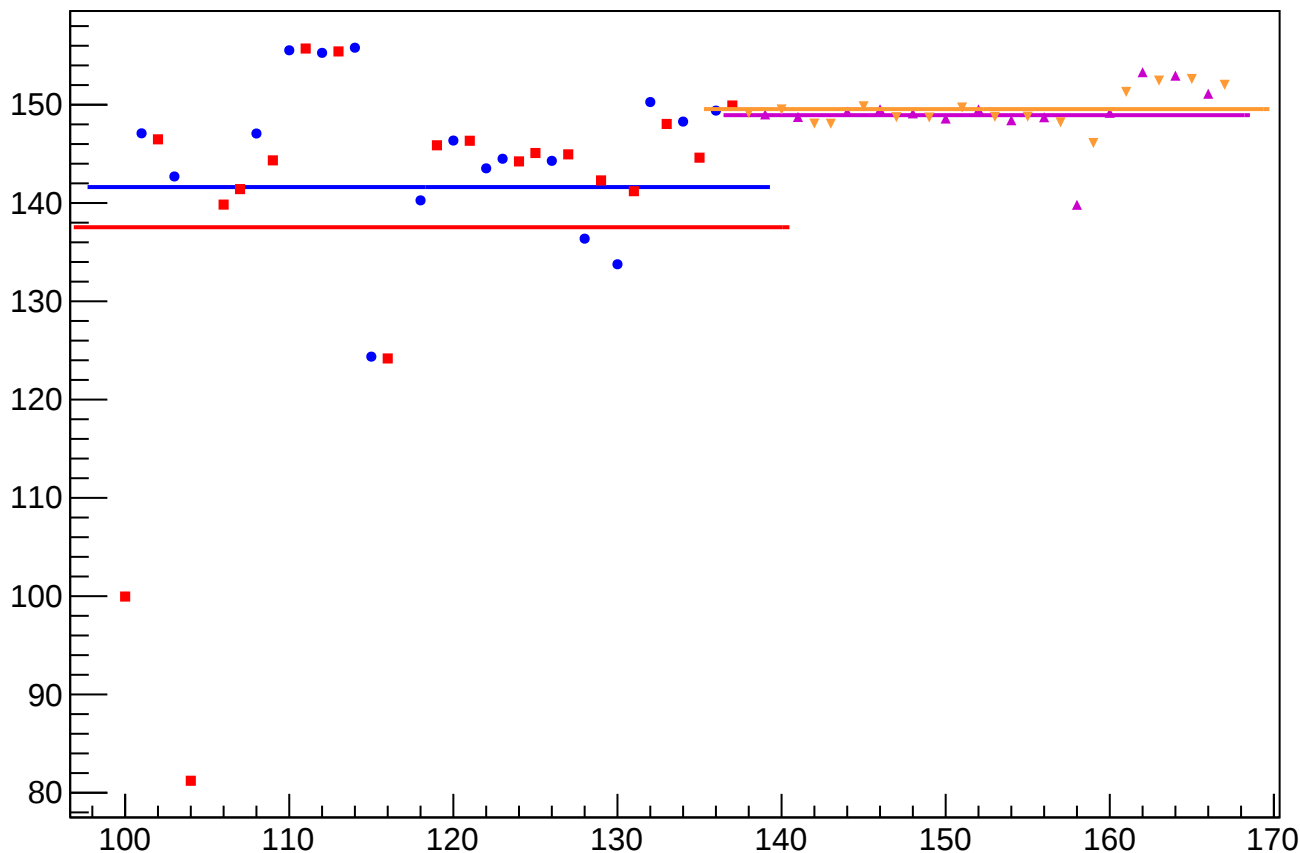
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 24374062.0/30

Out: 0.007+/-0.000 χ^2/NDF : 26116312.7/34

All: 0.007+/-0.000 χ^2/NDF : 50490398.7/65

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.556 $\pm$ 0.000 χ^2 /NDF: 119006531.1/15

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: 149.262 $\pm$ 0.000 χ^2 /NDF: 489050392.0/29

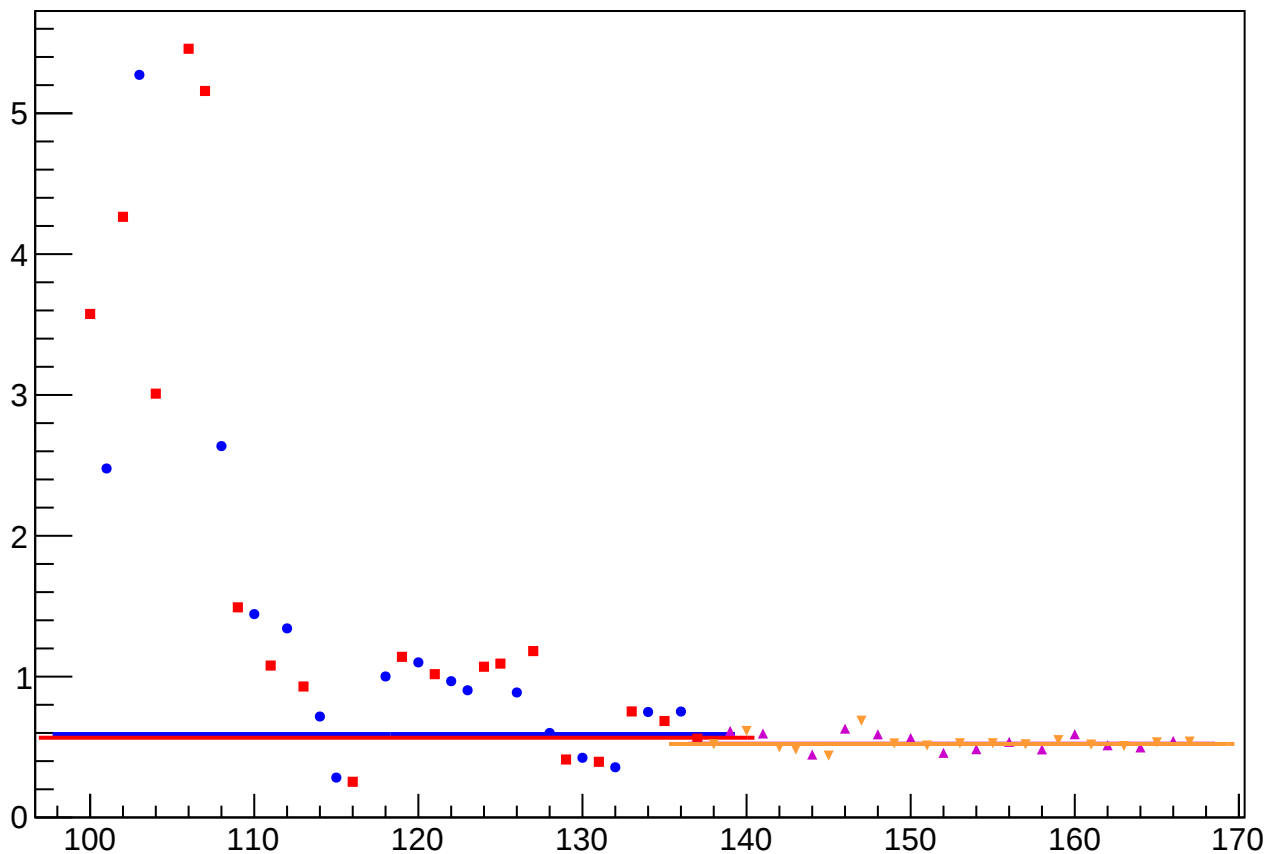
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.295 $\pm$ 0.000 χ^2 /NDF: 1765081390.2/30

Out: 146.953 $\pm$ 0.000 χ^2 /NDF: 2636917695.9/34

All: 147.117 $\pm$ 0.000 χ^2 /NDF: 4404739400.3

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.522 $\pm$ 0.000 χ^2 /NDF:171472.2/15

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: 0.523 $\pm$ 0.000 χ^2 /NDF: 398294.6/29

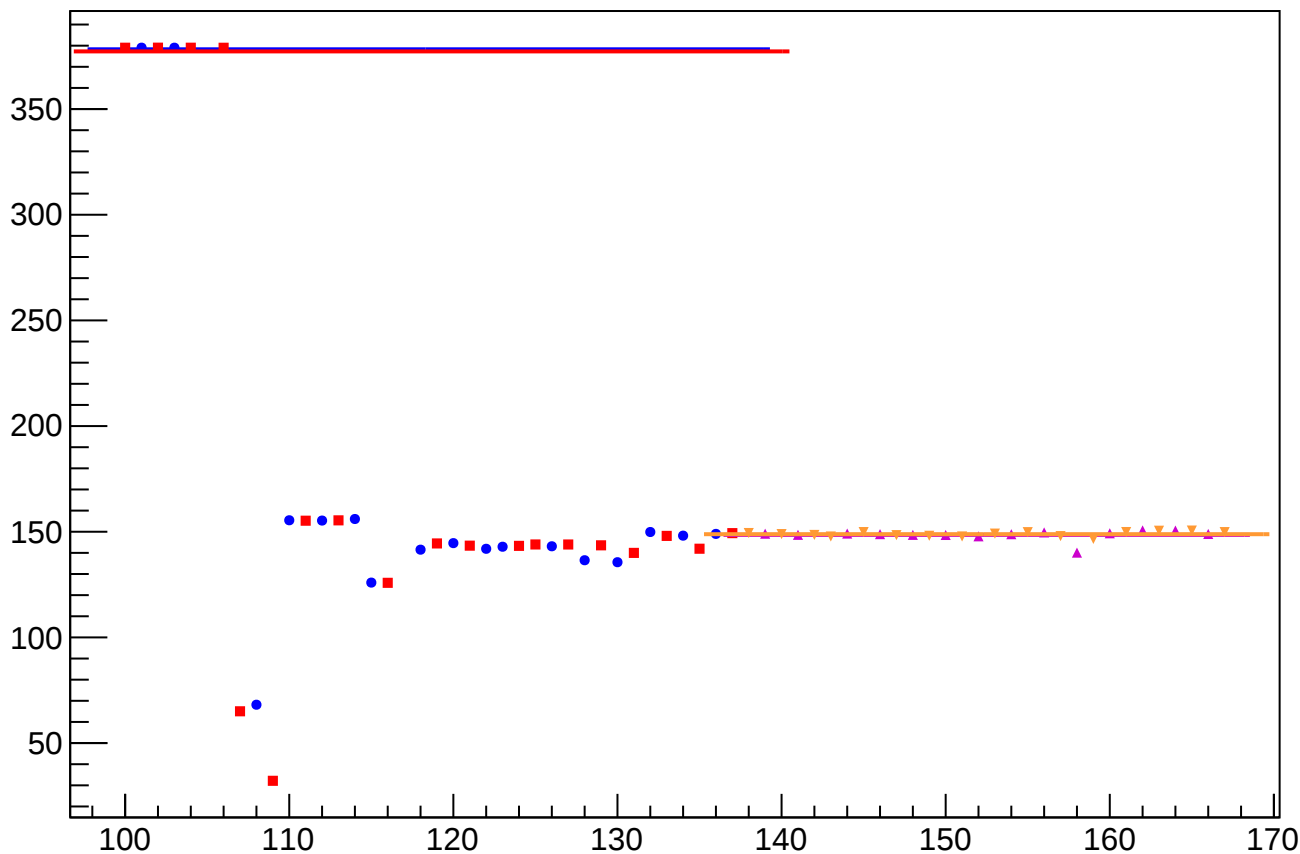
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.539 $\pm$ 0.000 χ^2 /NDF:3822064.8/30

Out: 0.532 $\pm$ 0.000 χ^2 /NDF:4886087.1/34

All: 0.535 $\pm$ 0.000 χ^2 /NDF: 8710818.5/65

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000

χ^2/NDF : 2512261599188.1/16

Left: 148.683+/-0.000

χ^2/NDF : 295629304.8/29

Left Out: 148.836+/-0.000

χ^2/NDF : 59897736.4/15

Right: 377.753+/-0.000

χ^2/NDF : 10798714881373.0

Right Out: 377.289+/-0.000

χ^2/NDF : 8279468194444.1/18

In: 377.418+/-0.000

χ^2/NDF : 5155877019030.4/30

Left In: 148.509+/-0.000

χ^2/NDF : 232870585.1/13

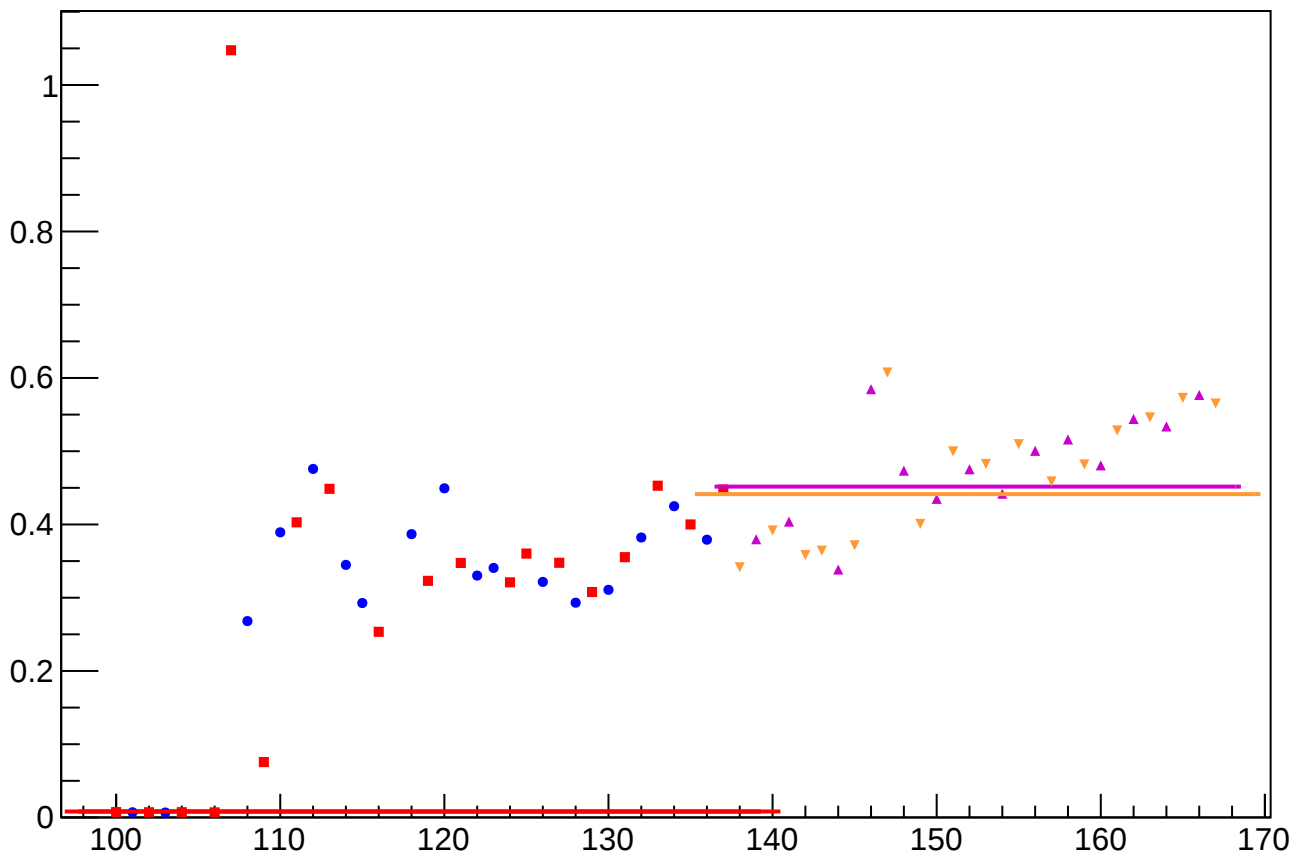
Out: 376.434+/-0.000

χ^2/NDF : 11244417868478.0

All: 376.894+/-0.000

χ^2/NDF : 164071777552.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.441 $\pm$ 0.000 χ^2 /NDF: 731388.2/15

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: 0.446 $\pm$ 0.000 χ^2 /NDF: 1253559.9/29

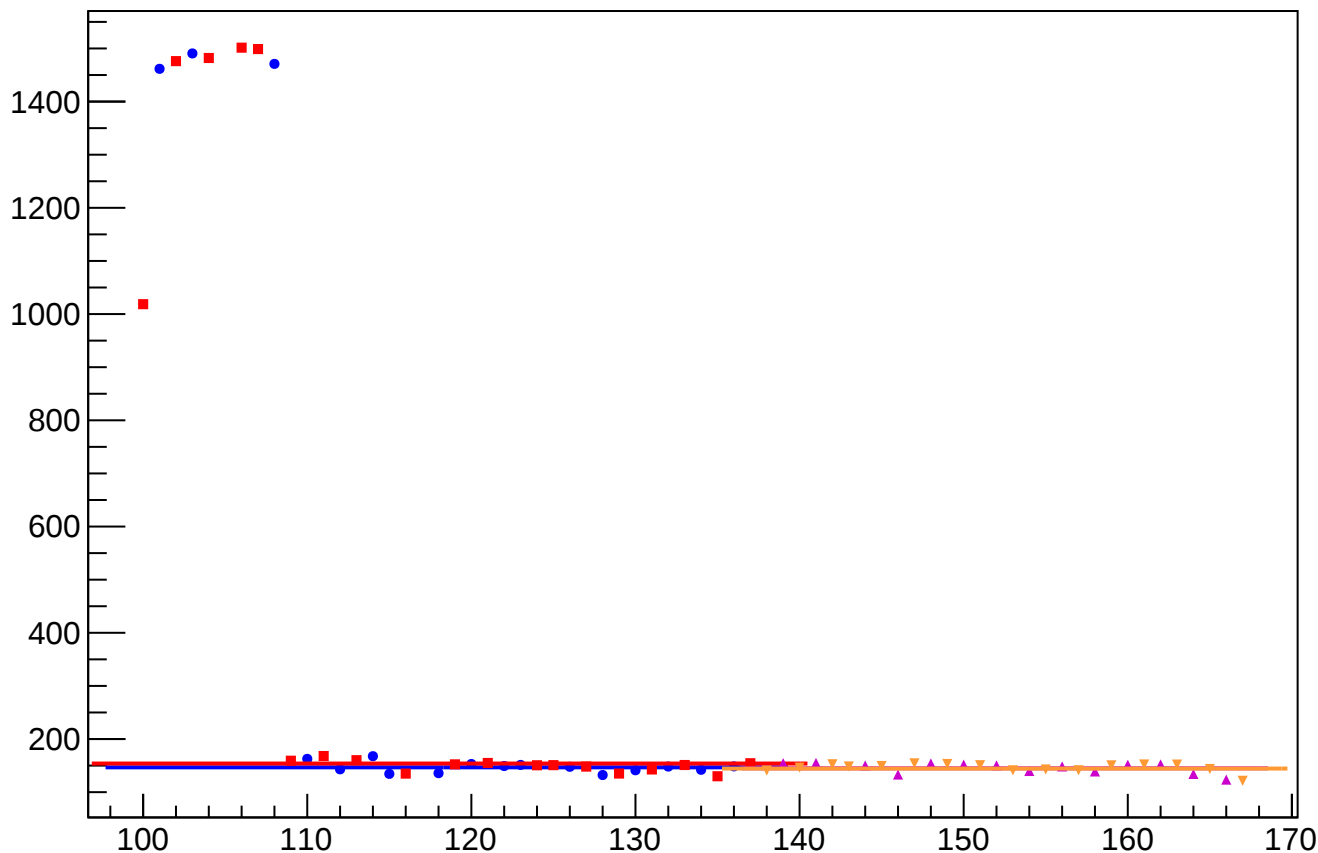
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 30103696.4/30

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 31598009.6/34

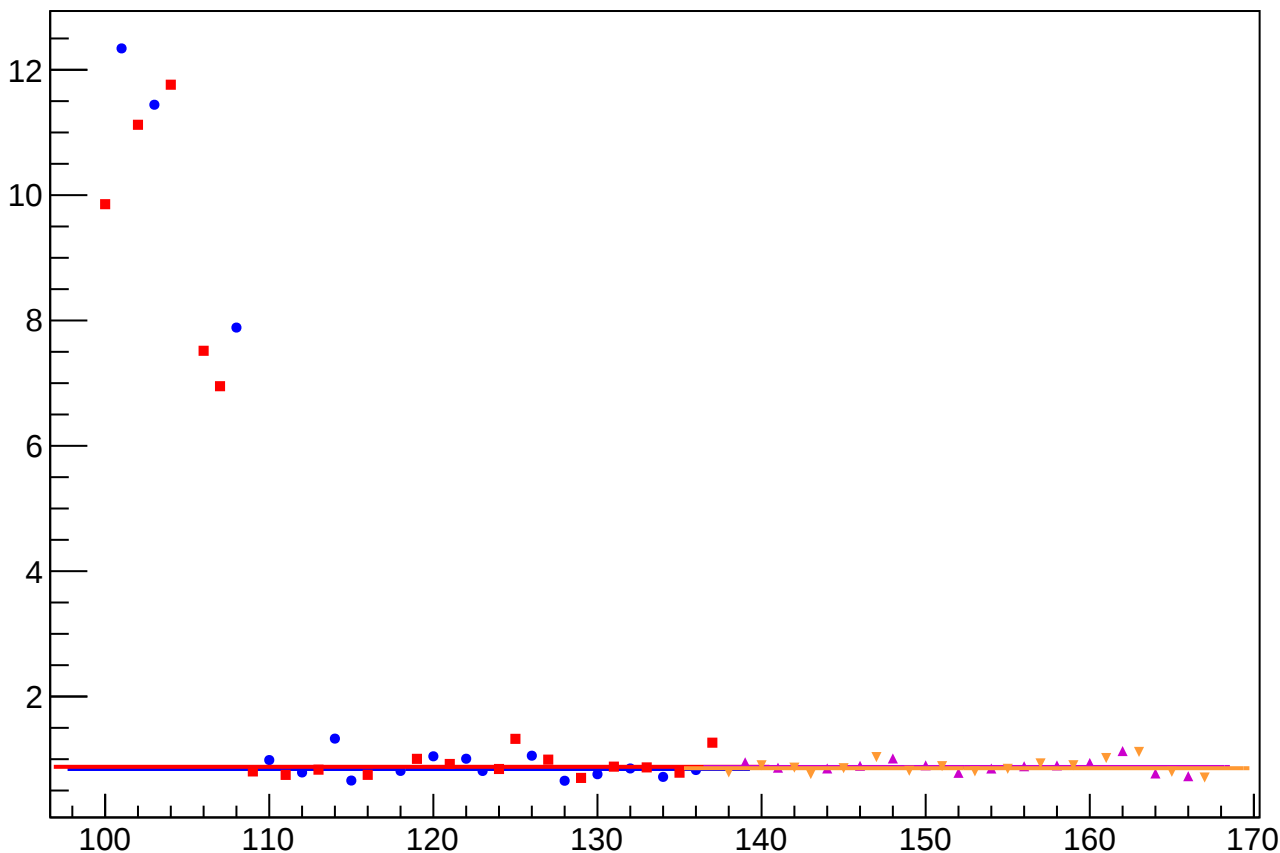
All: 0.010 $\pm$ 0.000 χ^2 /NDF: 61701716.3/65

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000	χ^2/NDF : 24350870553.3/16	Left: 144.633+/-0.000	χ^2/NDF : 2249111681.4/29
Left Out: 144.429+/-0.000	χ^2/NDF : 1167220985.9/15	Right: 150.283+/-0.000	χ^2/NDF : 58225591435.1/35
Right Out: 153.887+/-0.000	χ^2/NDF : 33738118250.9/18	In: 145.457+/-0.000	χ^2/NDF : 25444225393.0/30
Left In: 144.863+/-0.000	χ^2/NDF : 1080750411.8/13	Out: 147.176+/-0.000	χ^2/NDF : 35241155654.8/34
		All: 146.352+/-0.000	χ^2/NDF : 60711188444.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.856+/-0.000 χ^2/NDF : 262236.6/15

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: 0.865+/-0.000 χ^2/NDF : 455500.7/29

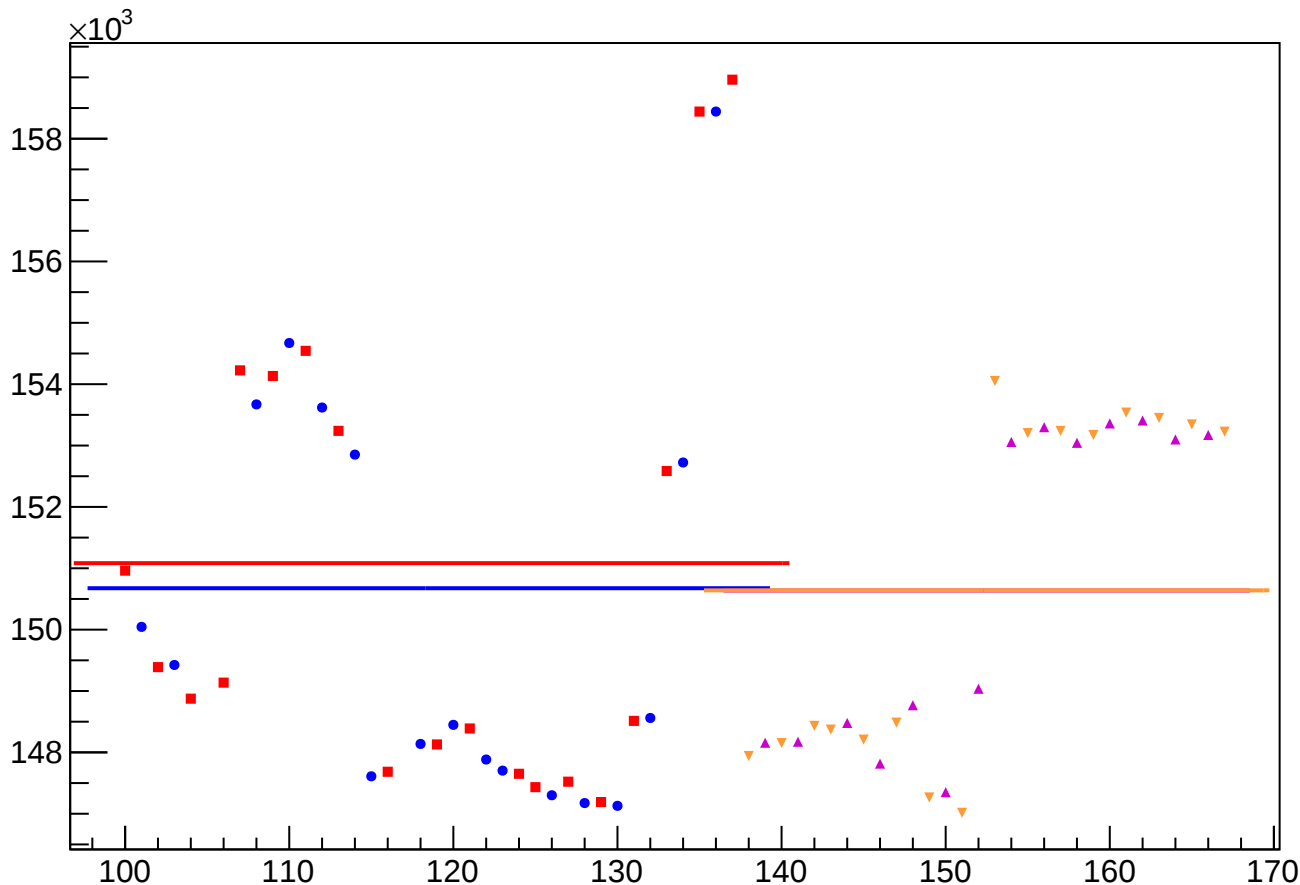
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.865+/-0.000 χ^2/NDF : 2866550.3/30

Out: 0.862+/-0.000 χ^2/NDF : 3078461.5/34

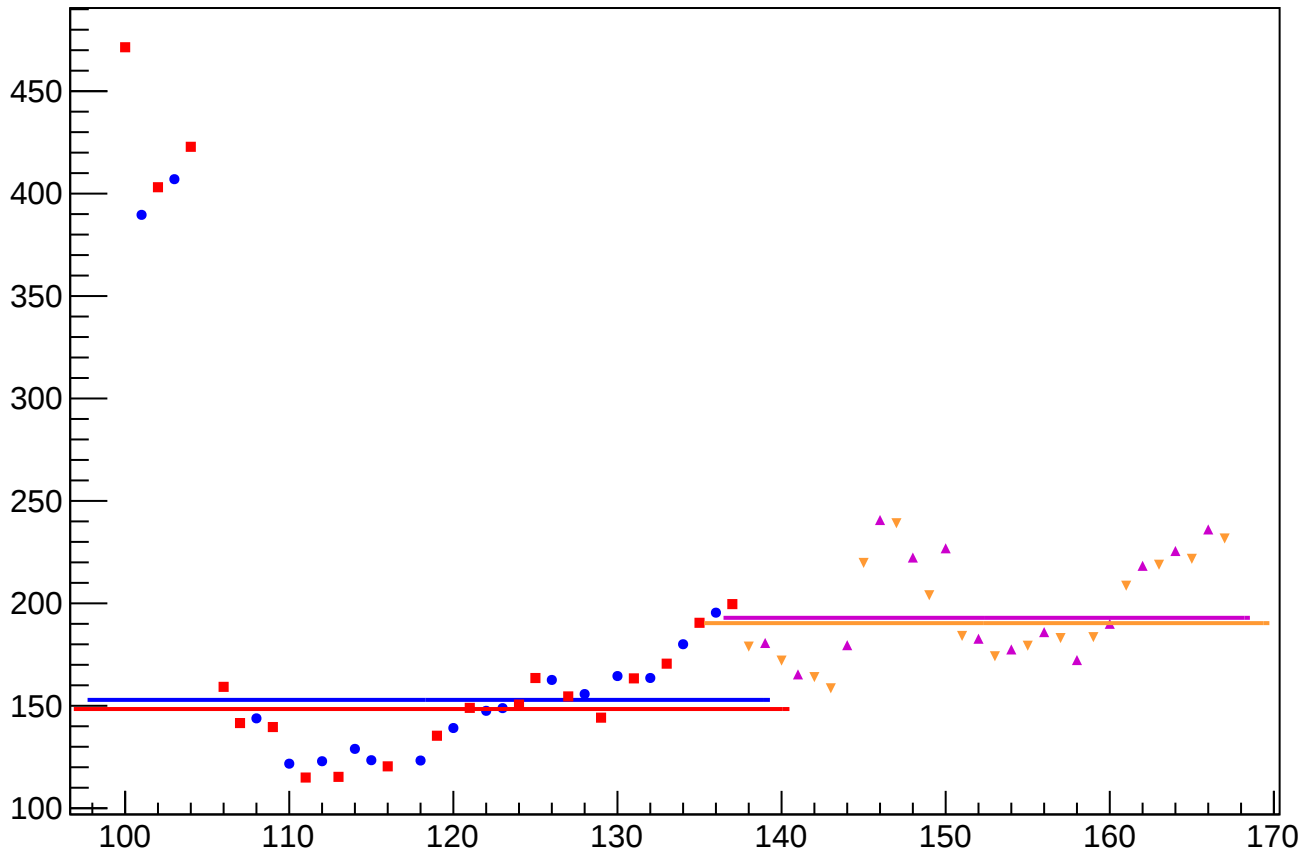
All: 0.864+/-0.000 χ^2/NDF : 5945163.2/65

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063	χ^2 /NDF: 3309974859.4/16	Left: 150638.817 $\pm$ 0.041	χ^2 /NDF: 4178849204.0/2
Left Out: 150640.310 $\pm$ 0.056	χ^2 /NDF: 2448474795.1/15	Right: 150890.022 $\pm$ 0.043	χ^2 /NDF: 6632946370.1
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
Left In: 150637.134 $\pm$ 0.059	χ^2 /NDF: 1730372894.6/13	Out: 150847.543 $\pm$ 0.041	χ^2 /NDF: 5778610068.6/3
		All: 150756.708 $\pm$ 0.030	χ^2 /NDF: 108296425

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883+/-0.045 χ^2/NDF : 1154088.7/16

Left Out: 190.346+/-0.040 χ^2/NDF :333094.0/15

Right Out: 148.418+/-0.042 χ^2/NDF : 1191577.6/18

Left In: 192.939+/-0.042 χ^2/NDF :315639.9/13

Left: 191.566+/-0.029 χ^2/NDF : 650752.9/29

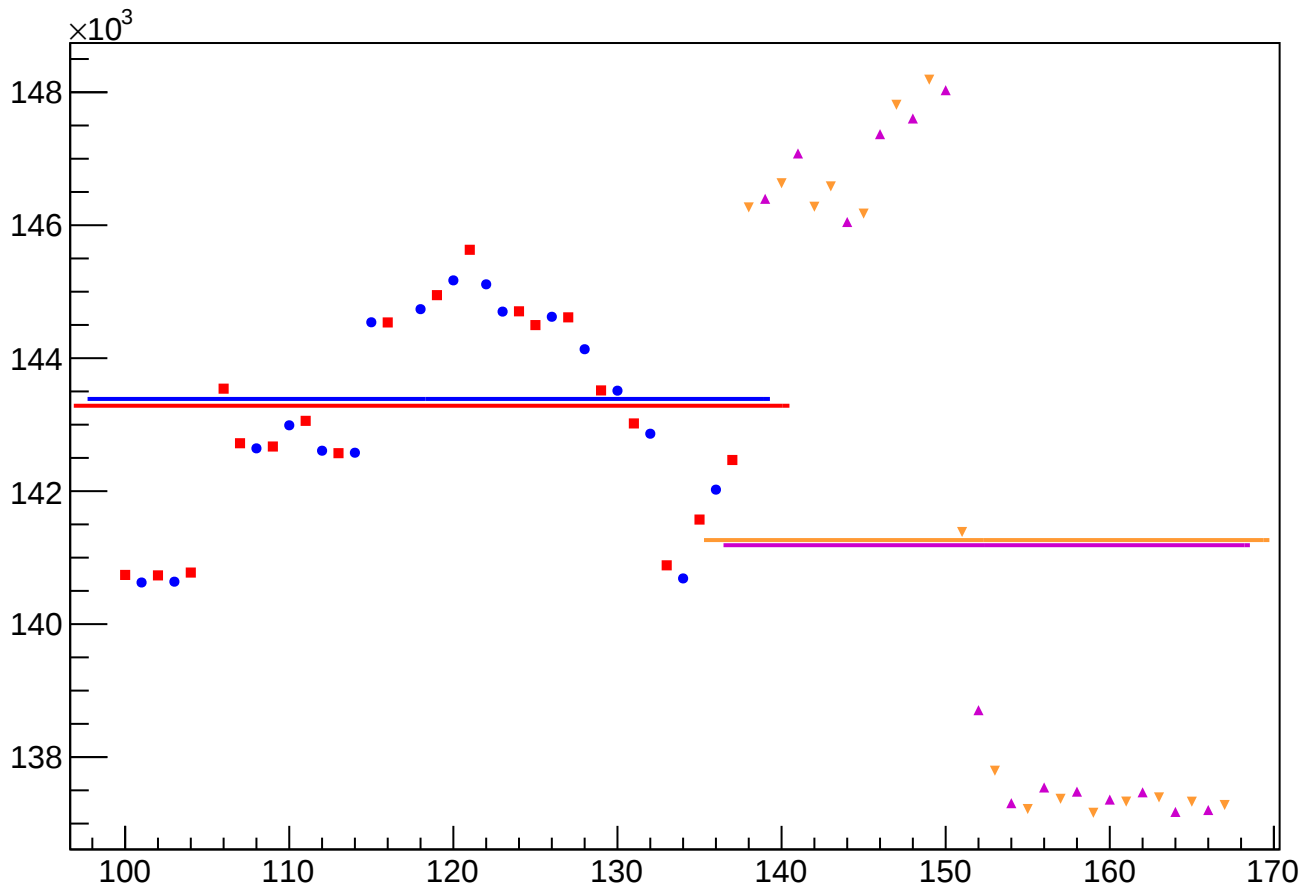
Right: 150.532+/-0.031 χ^2/NDF : 2350963.4/35

In: 174.075+/-0.031 χ^2/NDF :1898002.9/30

Out: 170.731+/-0.029 χ^2/NDF :2049785.5/34

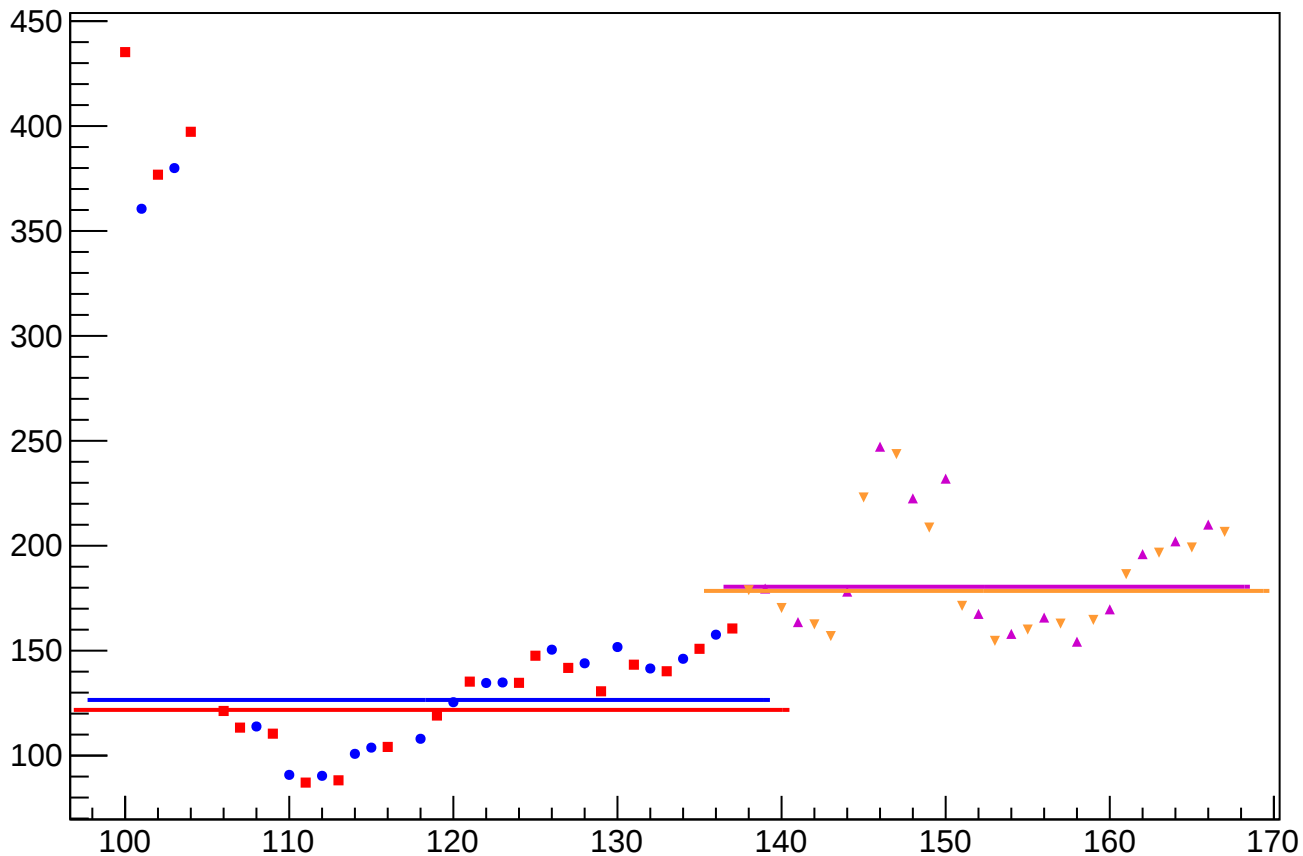
All: 172.308+/-0.021 χ^2/NDF : 3954119.3/65

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 141227.920 $\pm$ 0.038	χ^2 /NDF: 14065837357.6
Left Out: 141264.224 $\pm$ 0.053	χ^2 /NDF: 7266969813.5/15	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: 142343.630 $\pm$ 0.036	χ^2 /NDF: 8664353605.5/30
		All: 142345.940 $\pm$ 0.026	χ^2 /NDF: 168054283

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 +/- 0.037 χ^2/NDF : 1441685.0/16

Left Out: 178.477 +/- 0.037 χ^2/NDF : 384137.2/15

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: 179.412 +/- 0.027 χ^2/NDF : 811936.3/29

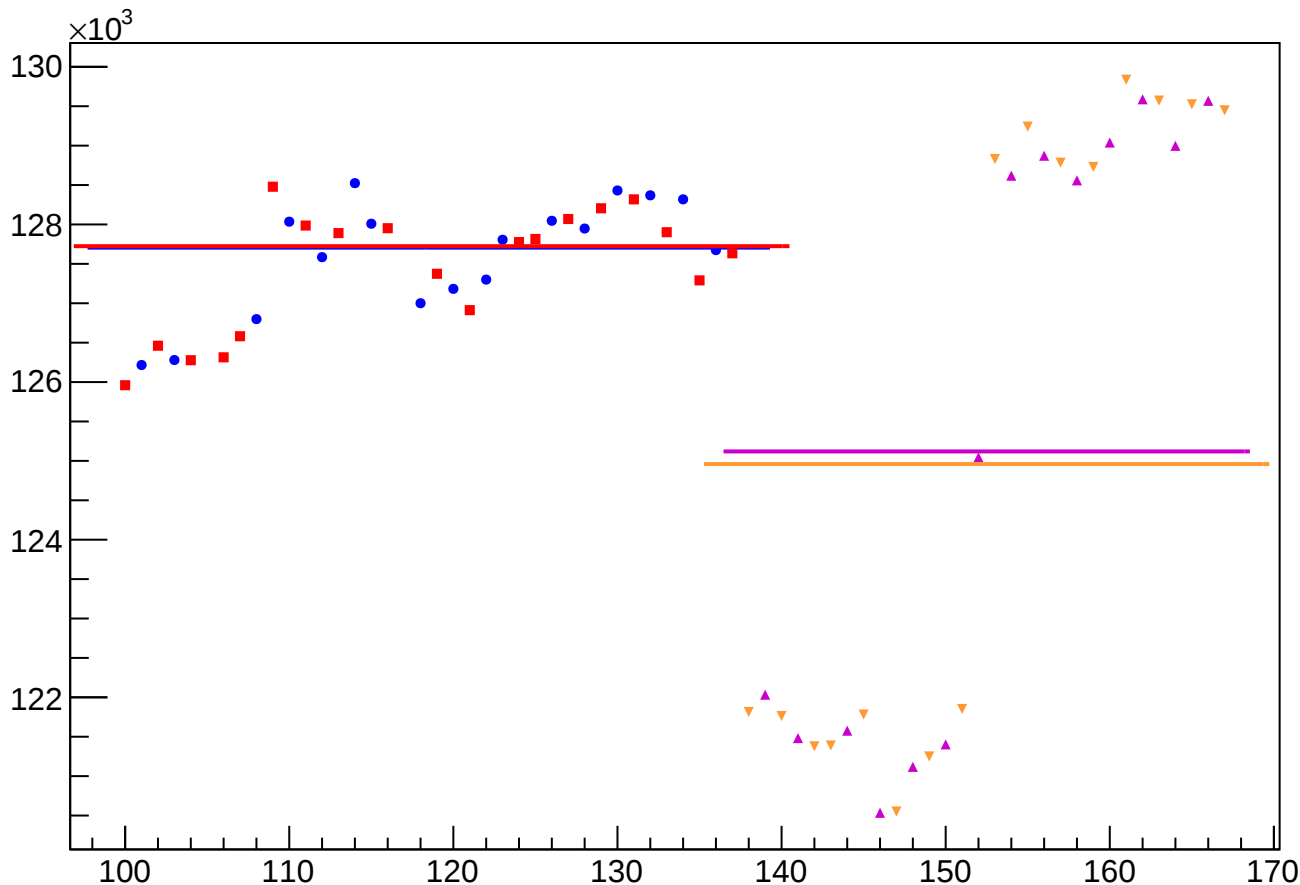
Right: 123.975 +/- 0.025 χ^2/NDF : 2914178.1/35

In: 151.981 +/- 0.027 χ^2/NDF : 2856660.5/30

Out: 148.184 +/- 0.025 χ^2/NDF : 3090398.0/34

All: 149.959 +/- 0.019 χ^2/NDF : 5957524.0/65

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left Out: 124959.387 $\pm$ 0.051

χ^2 /NDF: 5518790182.8/15

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: 125038.636 $\pm$ 0.036

χ^2 /NDF: 10287489019.8

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

In: 126269.528 $\pm$ 0.039

χ^2 /NDF: 5963953025.0/30

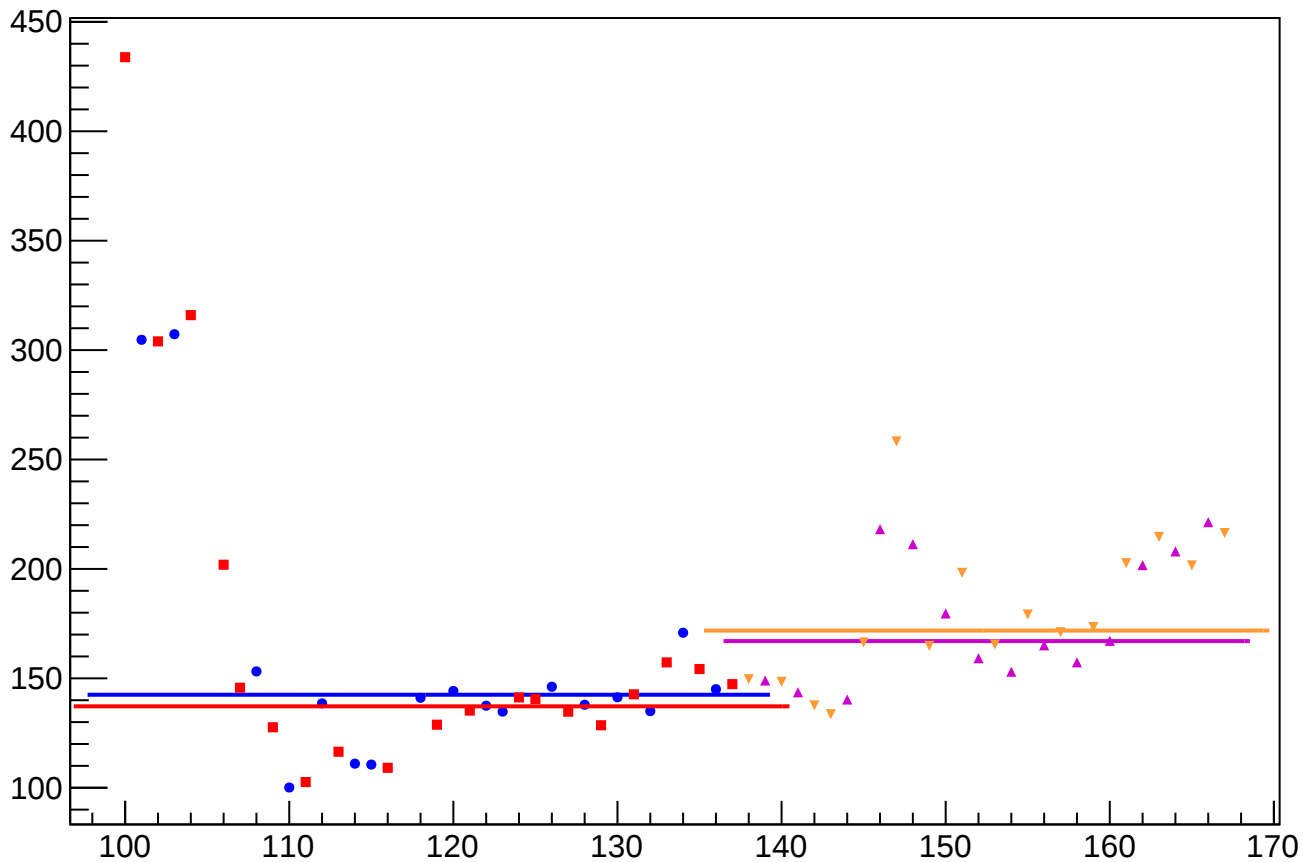
Out: 126256.467 $\pm$ 0.037

χ^2 /NDF: 6996351687.2/3

All: 126262.764 $\pm$ 0.027

χ^2 /NDF: 129603636

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 171.835 $\pm$ 0.036 χ^2 /NDF: 620490.4/15

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: 169.463 $\pm$ 0.026 χ^2 /NDF: 1094876.0/29

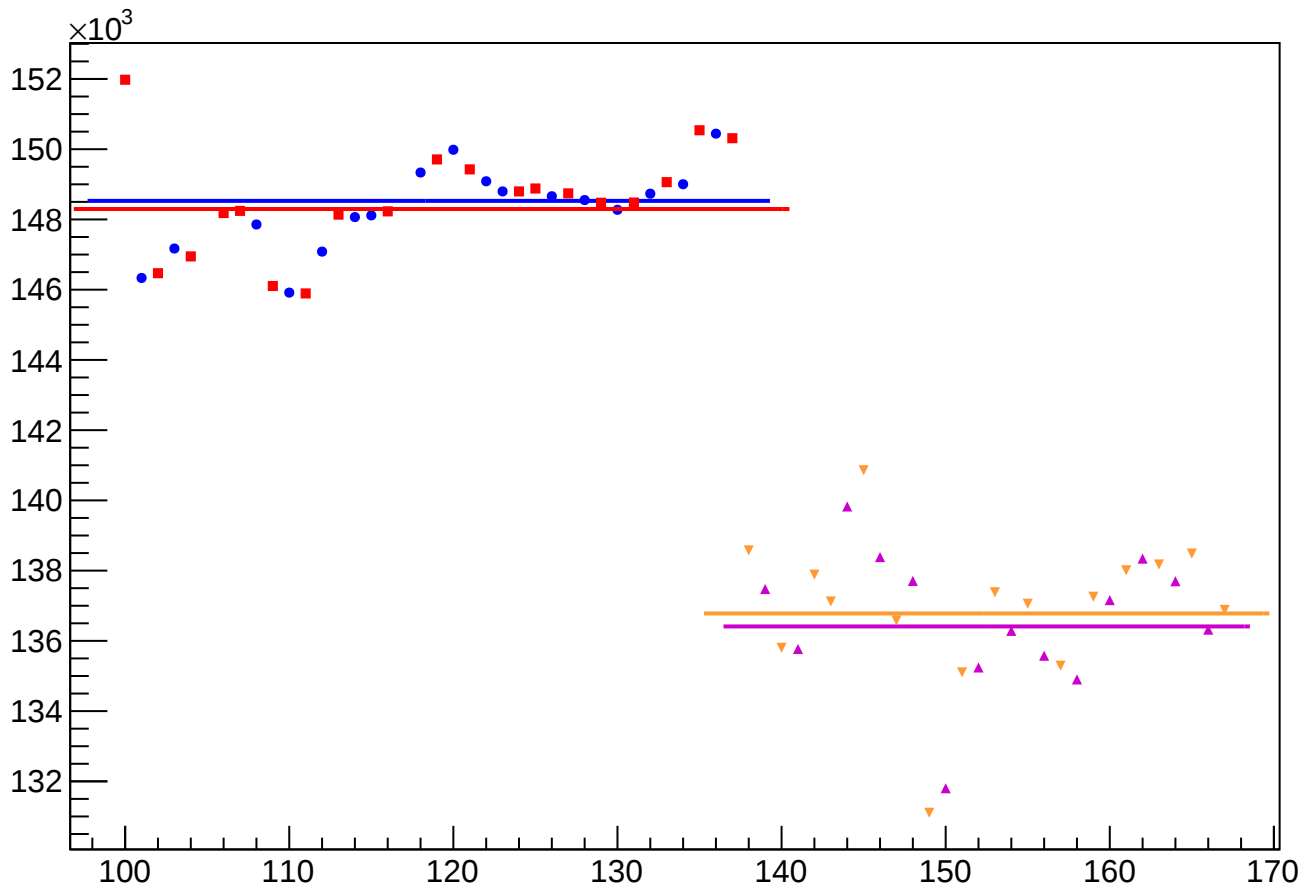
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 156.126 $\pm$ 0.027 χ^2 /NDF: 1500235.1/30

Out: 155.592 $\pm$ 0.026 χ^2 /NDF: 2005896.4/34

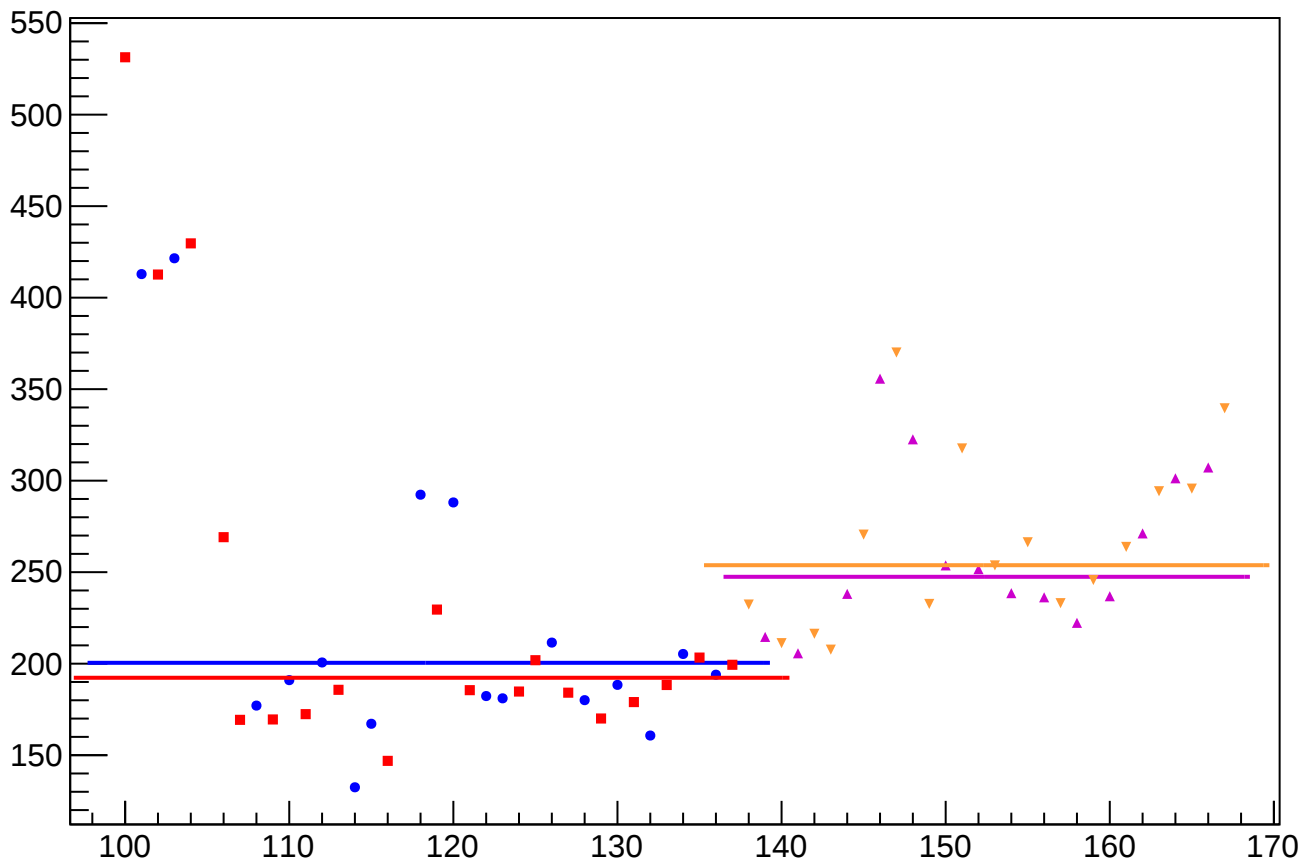
All: 155.850 $\pm$ 0.019 χ^2 /NDF: 3506328.9/65

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082	χ^2 /NDF: 209986594.2/16	Left: 136599.115 $\pm$ 0.054	χ^2 /NDF: 1478960182.1/16
Left Out: 136781.071 $\pm$ 0.075	χ^2 /NDF: 829723489.6/15	Right: 148404.723 $\pm$ 0.056	χ^2 /NDF: 507501516.8/3
Right Out: 148297.126 $\pm$ 0.076	χ^2 /NDF: 293244556.5/18	In: 142054.344 $\pm$ 0.056	χ^2 /NDF: 12495835542.9/3
Left In: 136410.590 $\pm$ 0.077	χ^2 /NDF: 637340787.8/13	Out: 142453.089 $\pm$ 0.054	χ^2 /NDF: 12649683099.5
		All: 142262.378 $\pm$ 0.039	χ^2 /NDF: 251719625

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 253.807+/-0.053 χ^2/NDF : 567499.4/15

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: 250.695+/-0.038 χ^2/NDF : 1026993.6/29

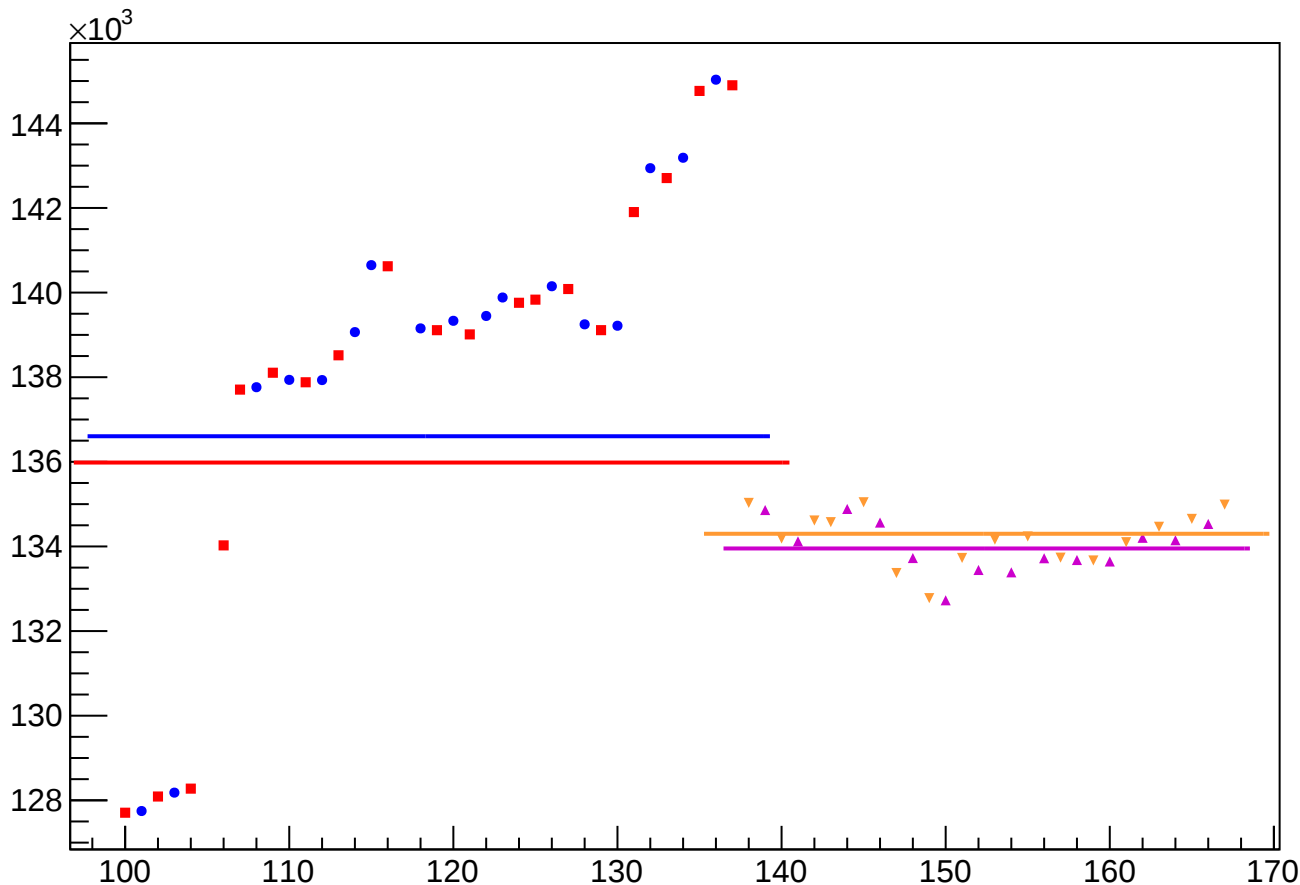
Right: 196.097+/-0.040 χ^2/NDF : 1791663.0/35

In: 225.582+/-0.040 χ^2/NDF : 1739491.3/30

Out: 223.515+/-0.038 χ^2/NDF : 2069528.9/34

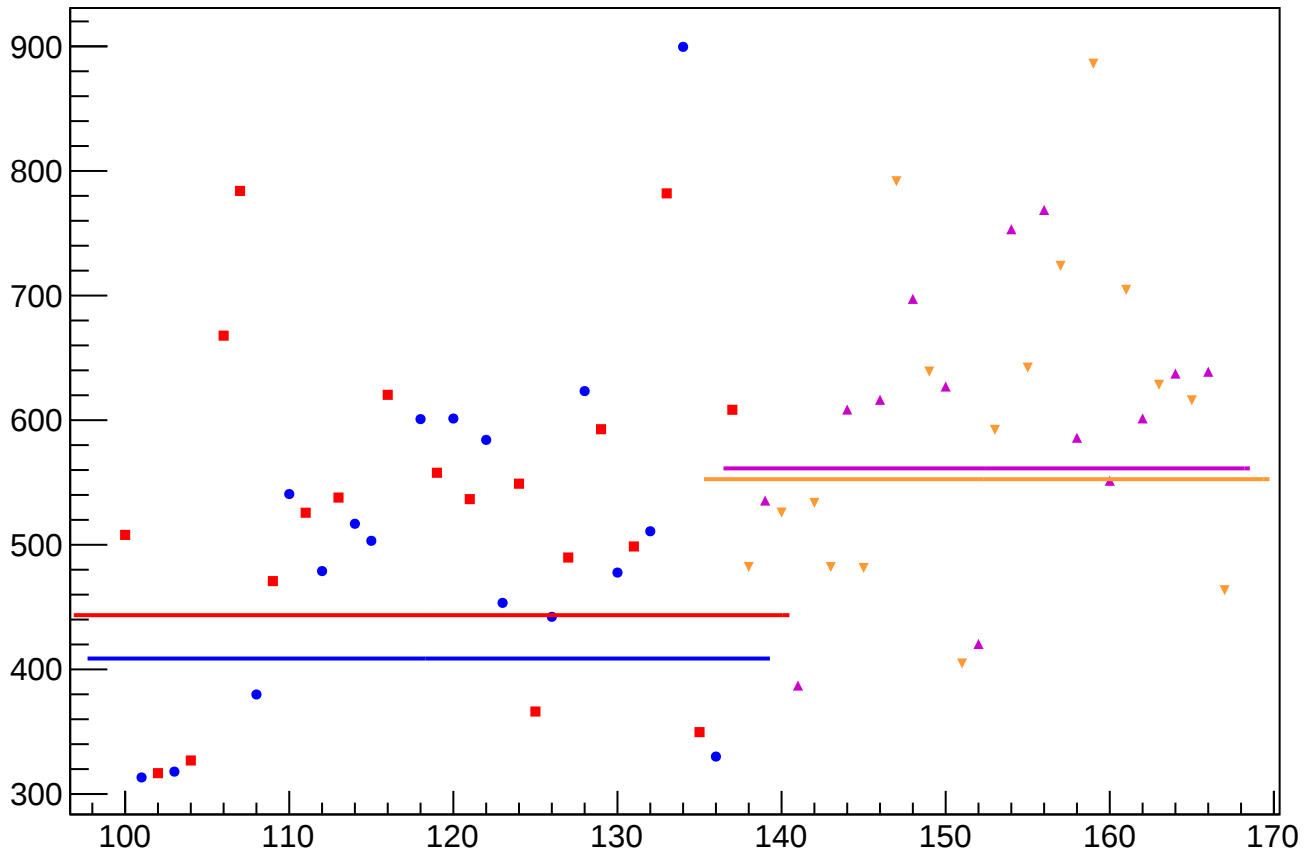
All: 224.503+/-0.027 χ^2/NDF : 3810441.9/65

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134139.368 $\pm$ 0.127	χ^2 /NDF: 24302093.9/29
Left Out: 134299.660 $\pm$ 0.173	χ^2 /NDF: 12815227.7/15	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/15
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: 135094.683 $\pm$ 0.126	χ^2 /NDF: 1140040693.1/3
		All: 135242.301 $\pm$ 0.089	χ^2 /NDF: 275626286.0/13

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729+/-0.121 χ^2/NDF : 823262.8/16

Left Out: 552.659+/-0.122 χ^2/NDF : 879367.7/15

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: 556.649+/-0.090 χ^2/NDF : 1619172.9/29

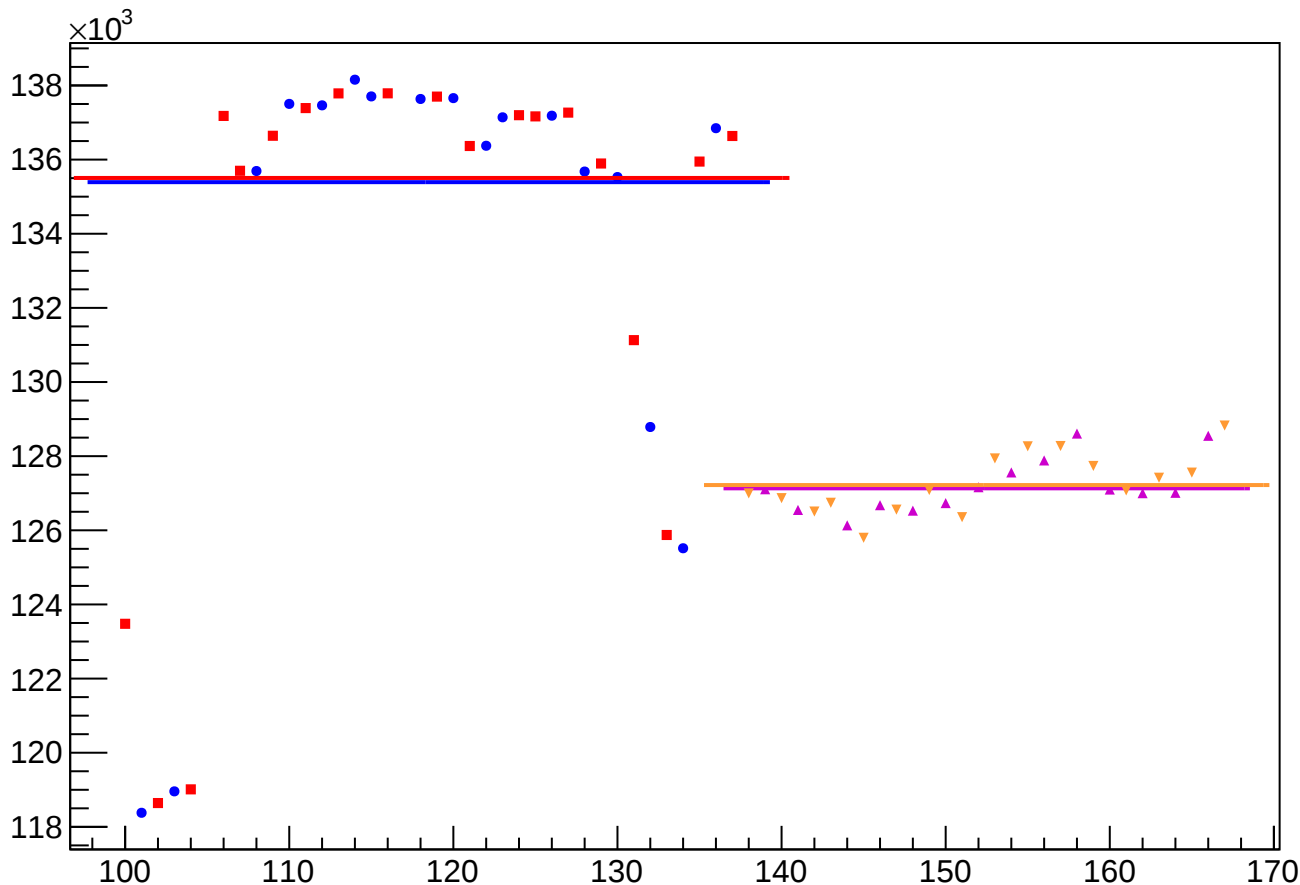
Right: 425.022+/-0.088 χ^2/NDF : 1779326.9/35

In: 478.504+/-0.089 χ^2/NDF : 2285199.8/30

Out: 501.110+/-0.089 χ^2/NDF : 2173512.6/34

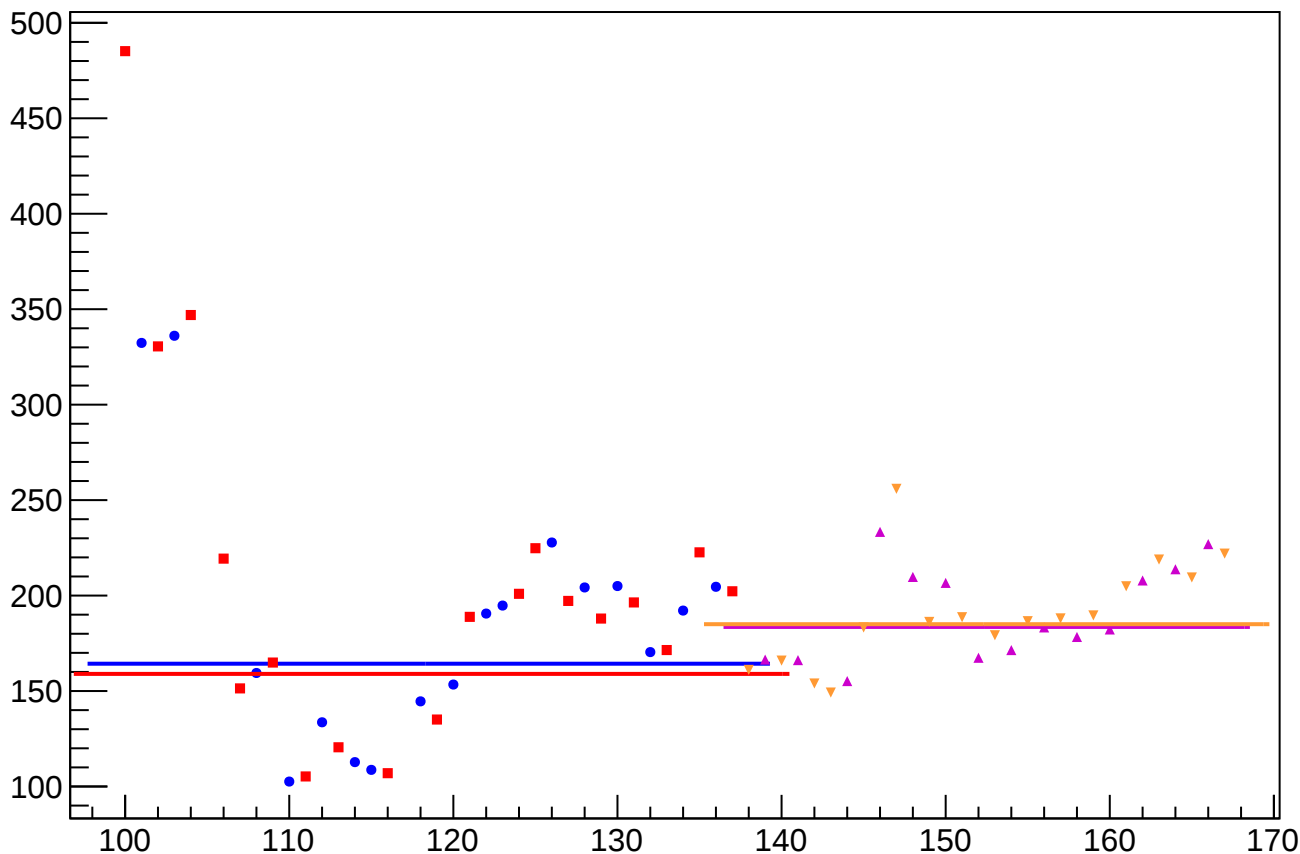
All: 489.874+/-0.063 χ^2/NDF : 4490938.4/65

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458+/-0.068	χ^2/NDF : 4580024611.0/16	Left: 127177.771+/-0.039	χ^2/NDF : 352619547.9/29
Left Out: 127220.467+/-0.055	χ^2/NDF : 197491931.4/15	Right: 135451.454+/-0.047	χ^2/NDF : 9312151817.8/3
Right Out: 135504.836+/-0.064	χ^2/NDF : 4730667469.8/18	In: 130502.967+/-0.044	χ^2/NDF : 13398569433.7/3
Left In: 127131.863+/-0.057	χ^2/NDF : 153861823.4/13	Out: 130690.676+/-0.042	χ^2/NDF : 14547121799.1/3
		All: 130601.081+/-0.030	χ^2/NDF : 279553745/3

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 185.011+/-0.039 χ^2/NDF : 392601.5/15

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 183.582+/-0.040 χ^2/NDF : 314633.8/13

Left: 184.322+/-0.028 χ^2/NDF : 707894.3/29

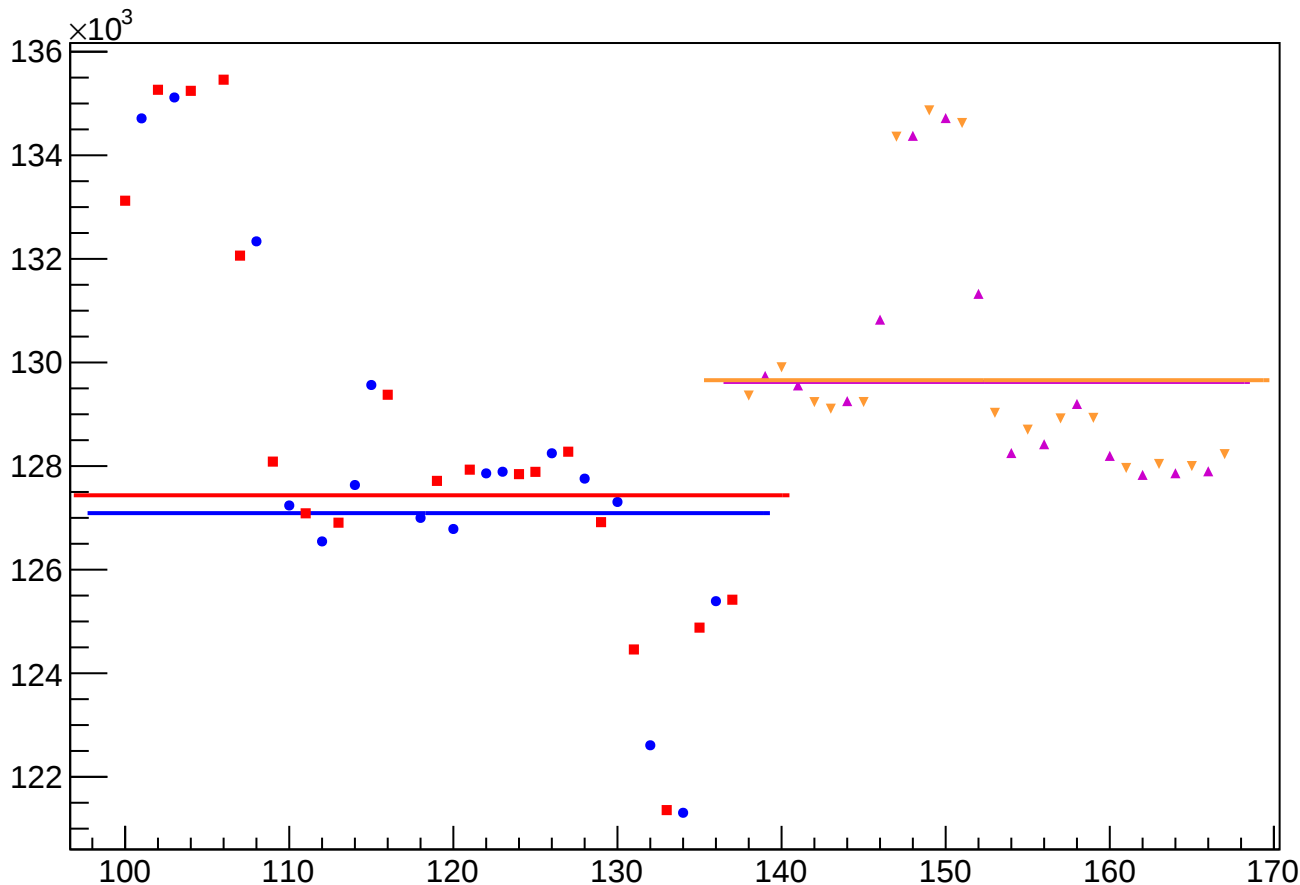
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 175.716+/-0.031 χ^2/NDF : 1639449.9/30

Out: 174.106+/-0.029 χ^2/NDF : 1966643.4/34

All: 174.875+/-0.021 χ^2/NDF : 3607518.8/65

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066

χ^2/NDF : 1717208780.6/16

Left: 129641.859+/-0.040

χ^2/NDF : 2390197094.9/2

Right: 127276.609+/-0.045

χ^2/NDF : 3810794624.3/3

Left Out: 129658.037+/-0.055

χ^2/NDF : 1320287937.2/15

Right Out: 127436.101+/-0.062

χ^2/NDF : 2079075713.9/18

In: 128547.526+/-0.043

χ^2/NDF : 3625873486.9/30

Out: 128671.029+/-0.041

χ^2/NDF : 4123783904.8/3

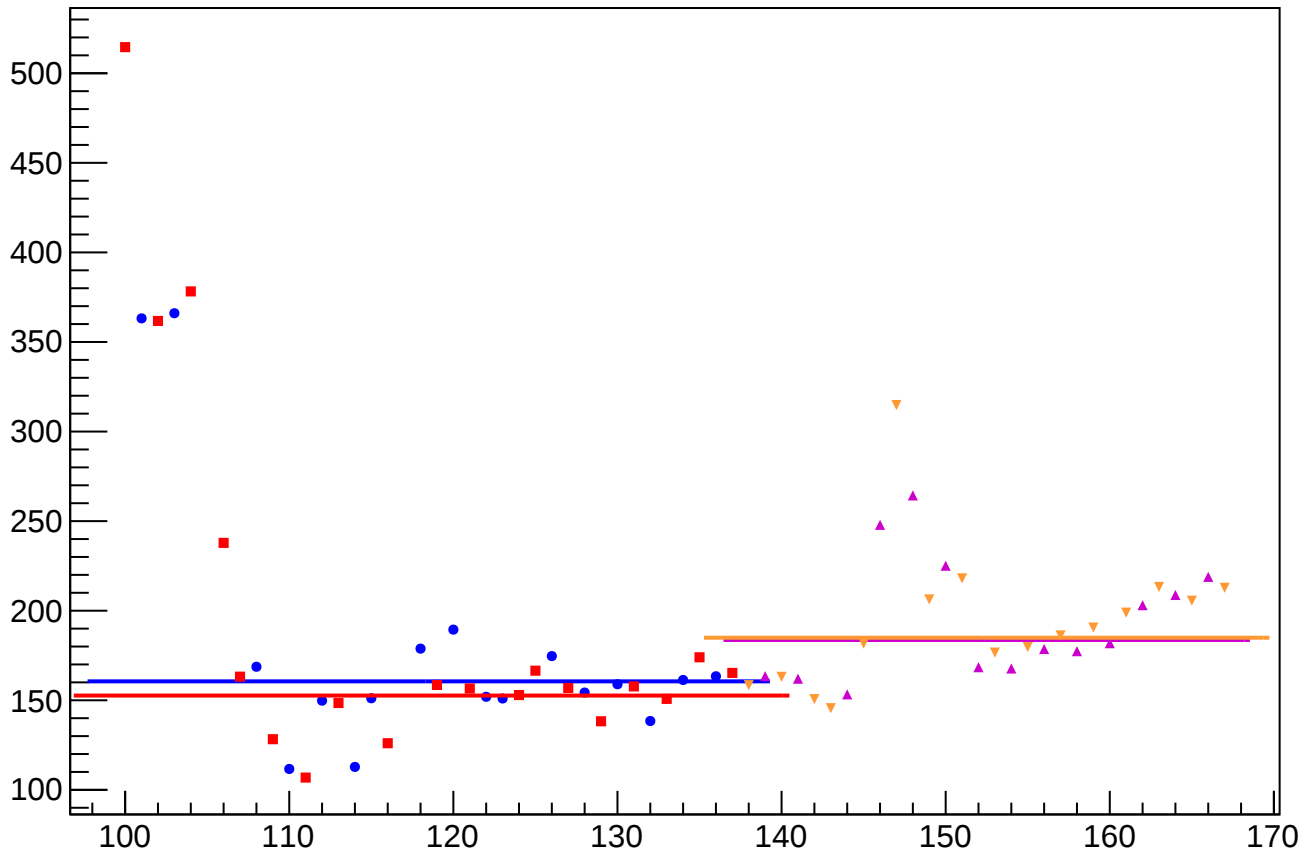
Left In: 129624.482+/-0.057

χ^2/NDF : 1069729839.5/13

All: 128612.521+/-0.030

χ^2/NDF : 775395190.0/100

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 184.920 $\pm$ 0.039 χ^2 /NDF: 598417.5/15

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: 184.314 $\pm$ 0.028 χ^2 /NDF: 1113608.8/29

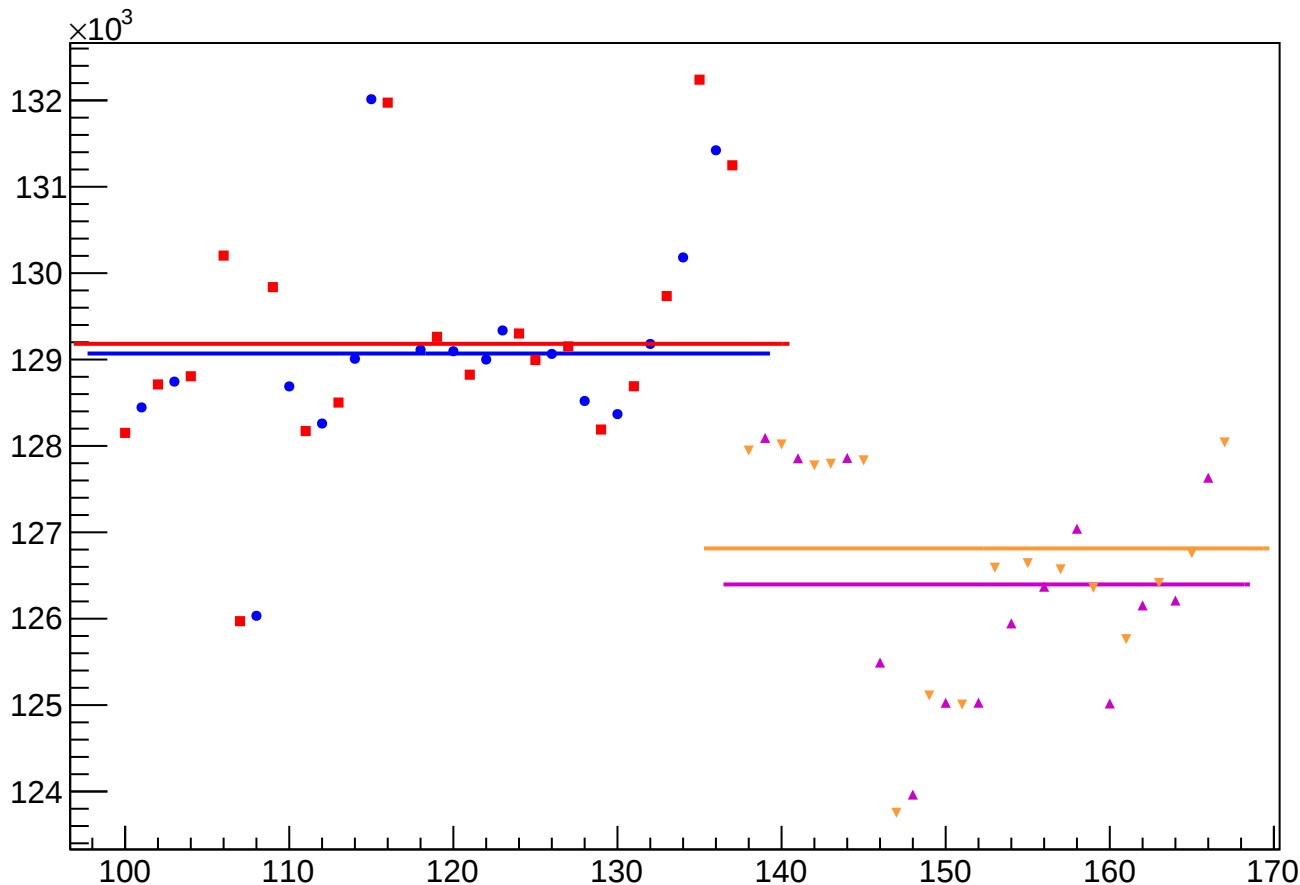
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 173.841 $\pm$ 0.031 χ^2 /NDF: 1596957.6/30

Out: 170.576 $\pm$ 0.029 χ^2 /NDF: 1990932.1/34

All: 172.123 $\pm$ 0.021 χ^2 /NDF: 3593894.3/65

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060 χ^2 /NDF: 476692316.5/16

Left Out: 126813.243 $\pm$ 0.053 χ^2 /NDF: 461178814.3/15

Right Out: 129181.887 $\pm$ 0.056 χ^2 /NDF: 625597399.6/18

Left In: 126396.644 $\pm$ 0.055 χ^2 /NDF: 525584296.6/13

Left: 126612.790 $\pm$ 0.038 χ^2 /NDF: 1016478275.4/2

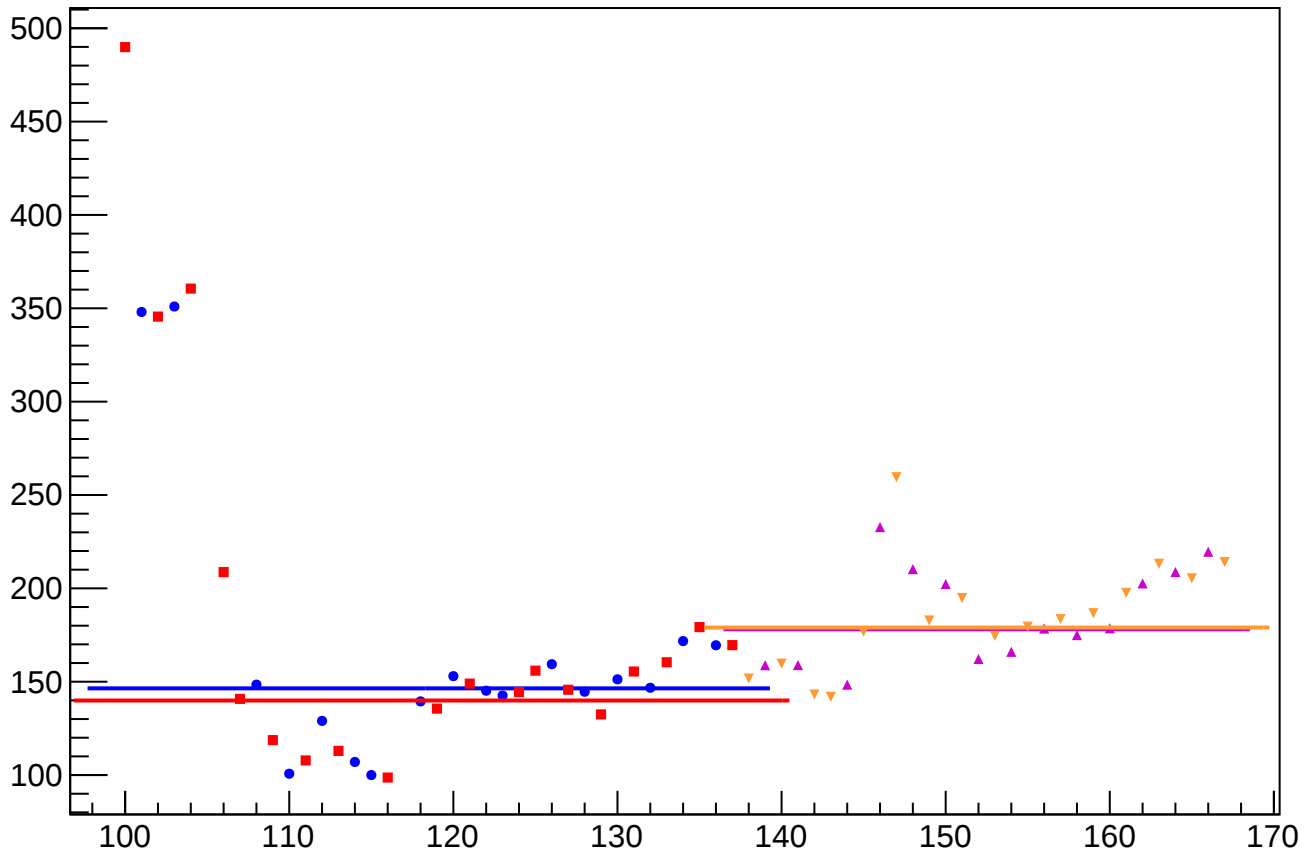
Right: 129129.710 $\pm$ 0.041 χ^2 /NDF: 1104150743.5/15

In: 127614.568 $\pm$ 0.041 χ^2 /NDF: 2076599761.1/30

Out: 127930.768 $\pm$ 0.039 χ^2 /NDF: 2028677628.7/3

All: 127781.002 $\pm$ 0.028 χ^2 /NDF: 41371798

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 179.009 $\pm$ 0.037 χ^2 /NDF: 488156.7/15

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: 178.560 $\pm$ 0.027 χ^2 /NDF: 859219.4/29

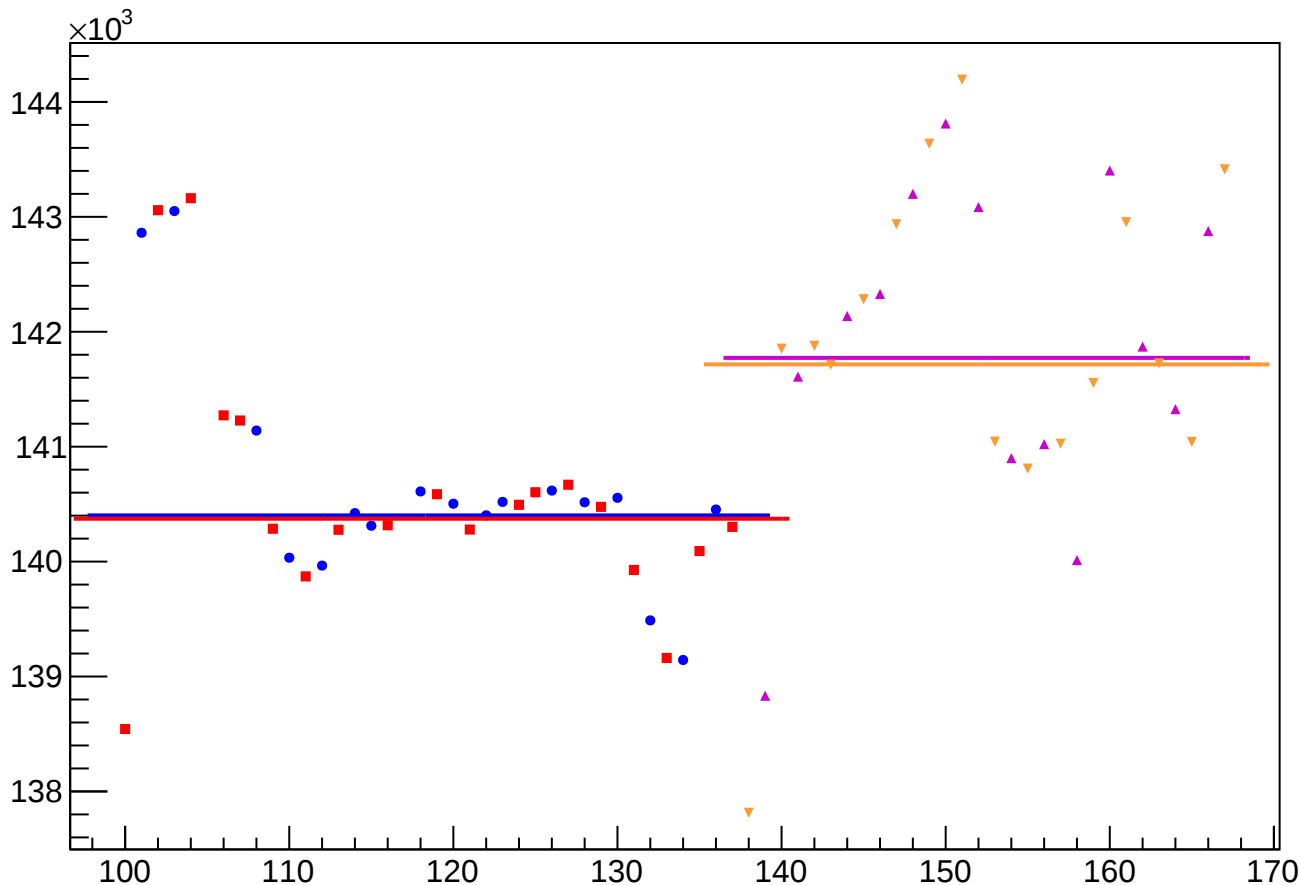
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 163.660 $\pm$ 0.029 χ^2 /NDF: 1736580.6/30

Out: 160.571 $\pm$ 0.027 χ^2 /NDF: 2204521.3/34

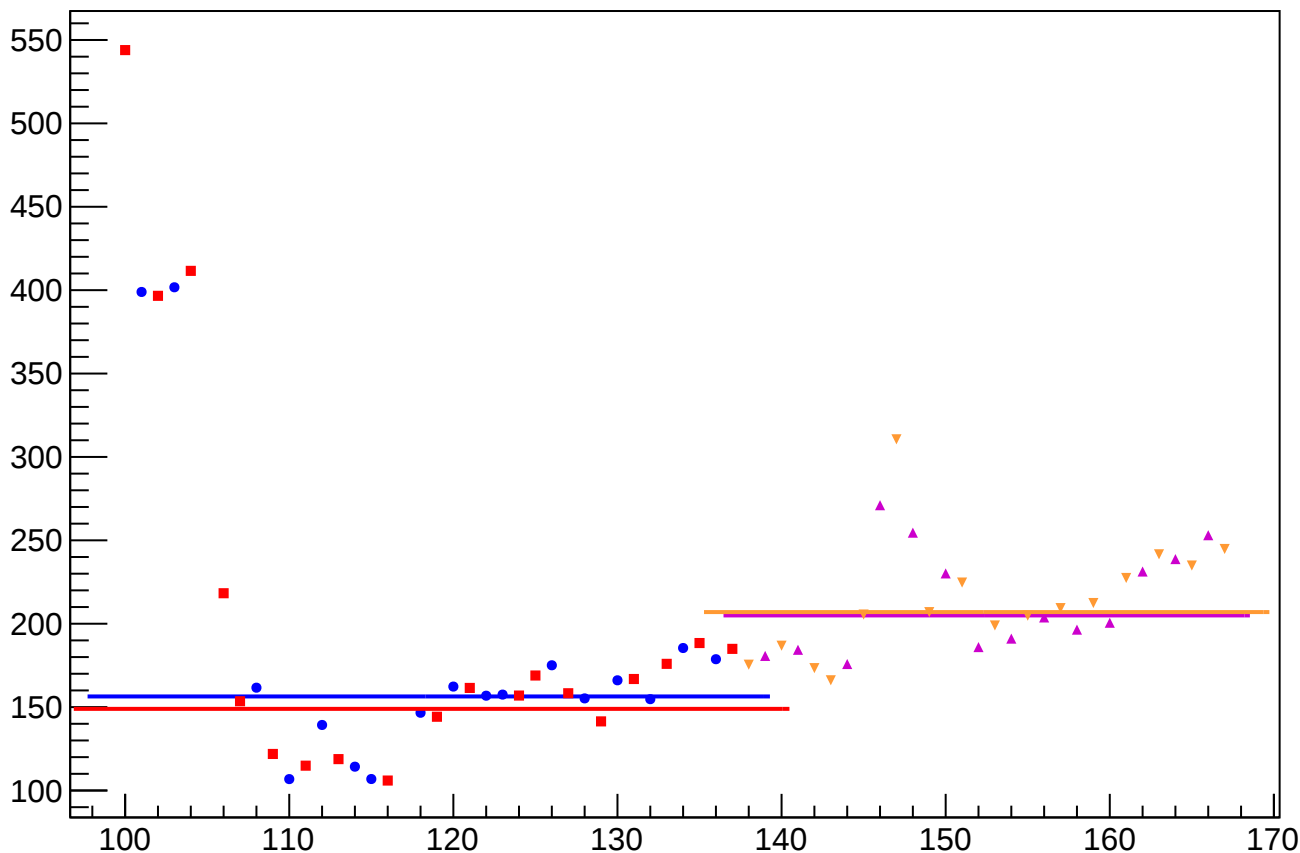
All: 162.034 $\pm$ 0.020 χ^2 /NDF: 3947192.9/65

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064	χ^2 /NDF: 88071774.7/16	Left: 141743.488 $\pm$ 0.044	χ^2 /NDF: 1102588627.9/2
Left Out: 141716.094 $\pm$ 0.061	χ^2 /NDF: 627050344.1/15	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: 141027.820 $\pm$ 0.043	χ^2 /NDF: 972333820.2/34
		All: 141060.605 $\pm$ 0.031	χ^2 /NDF: 176686332

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 206.981 $\pm$ 0.043 χ^2 /NDF: 455098.2/15

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: 206.010 $\pm$ 0.031 χ^2 /NDF: 831456.6/29

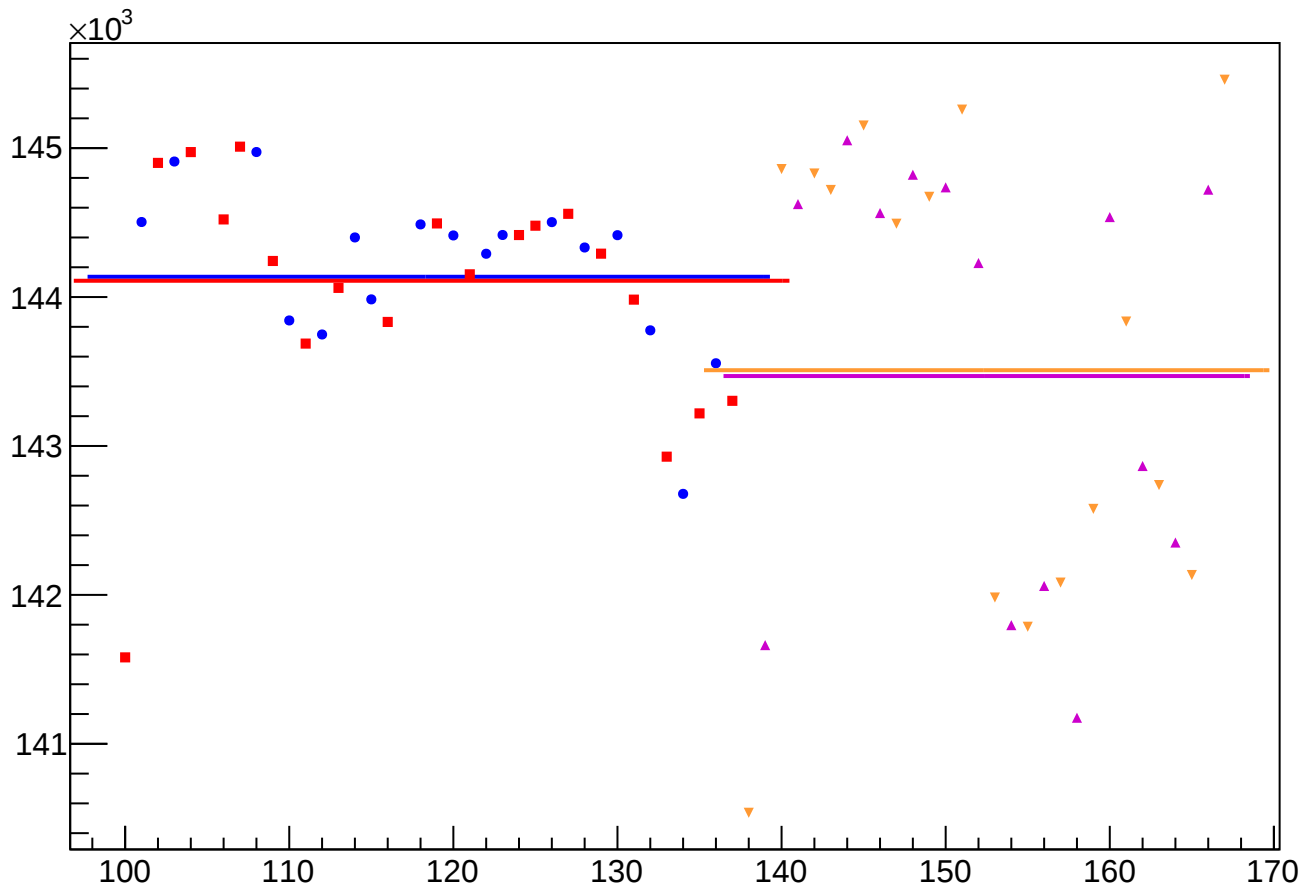
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 181.025 $\pm$ 0.032 χ^2 /NDF: 2108095.7/30

Out: 177.239 $\pm$ 0.030 χ^2 /NDF: 2679357.1/34

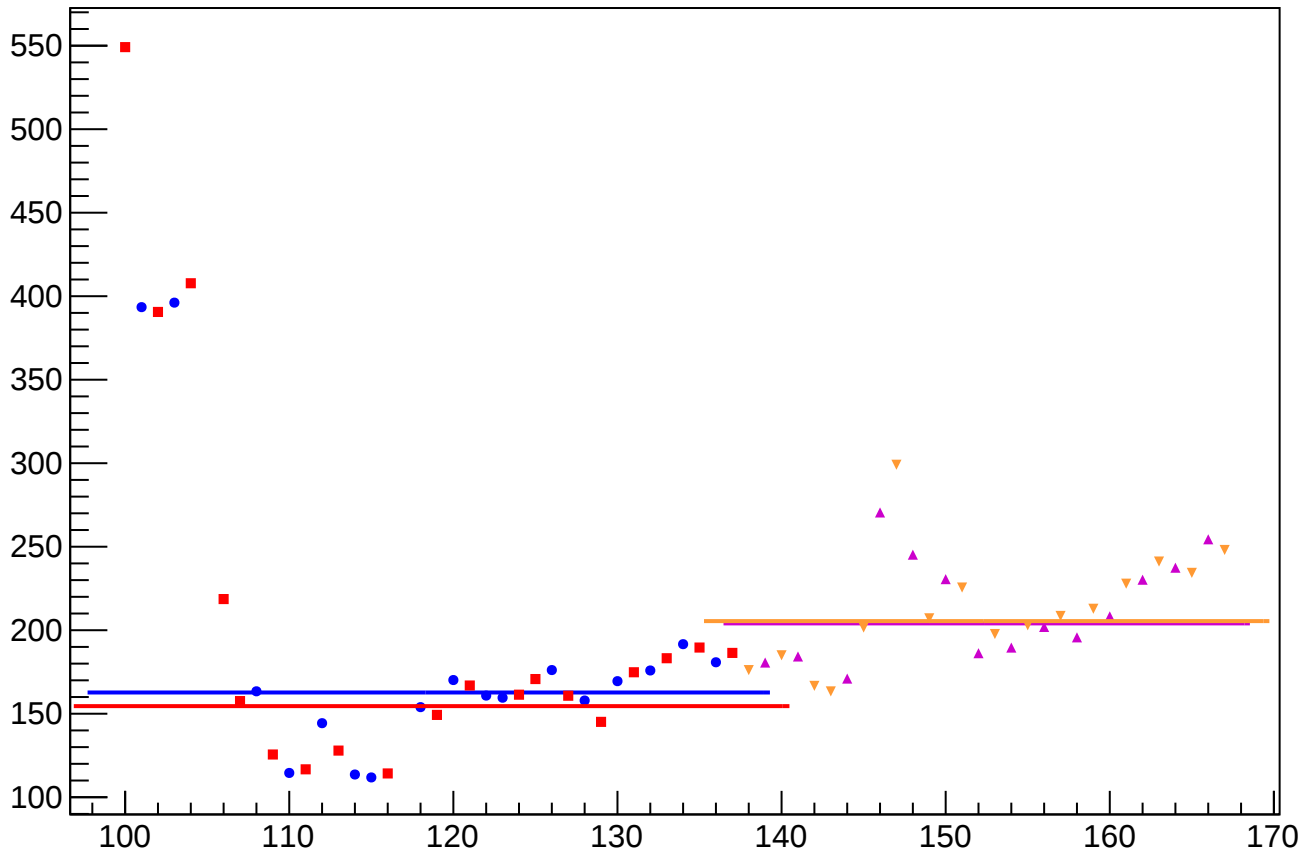
All: 179.032 $\pm$ 0.022 χ^2 /NDF: 4794849.2/65

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067	χ^2 /NDF: 47069480.3/16	Left: 143489.841 $\pm$ 0.044	χ^2 /NDF: 1173571129.7/2
Left Out: 143508.706 $\pm$ 0.061	χ^2 /NDF: 660955729.7/15	Right: 144121.752 $\pm$ 0.045	χ^2 /NDF: 112414138.5/3
Right Out: 144109.419 $\pm$ 0.062	χ^2 /NDF: 65258627.2/18	In: 143784.530 $\pm$ 0.046	χ^2 /NDF: 612056436.3/30
Left In: 143469.517 $\pm$ 0.063	χ^2 /NDF: 512416008.7/13	Out: 143804.286 $\pm$ 0.043	χ^2 /NDF: 774101724.1/34
		All: 143794.961 $\pm$ 0.032	χ^2 /NDF: 138625598

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2 /NDF: 1066482.0/16

Left Out: 205.453 $\pm$ 0.043 χ^2 /NDF:469590.6/15

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: 204.795 $\pm$ 0.031 χ^2 /NDF: 848395.7/29

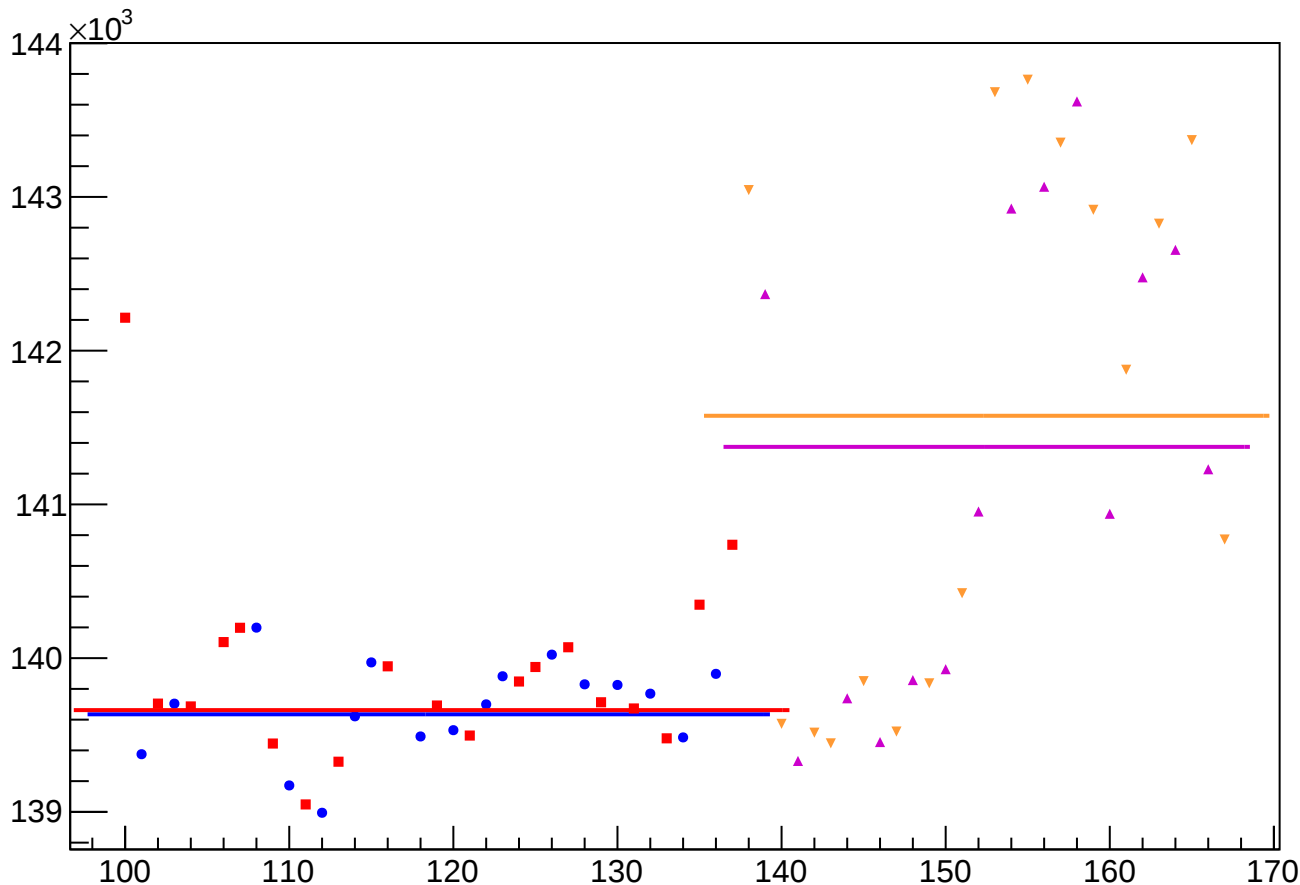
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 184.535 $\pm$ 0.032 χ^2 /NDF:1849804.0/30

Out: 180.405 $\pm$ 0.031 χ^2 /NDF:2374880.9/34

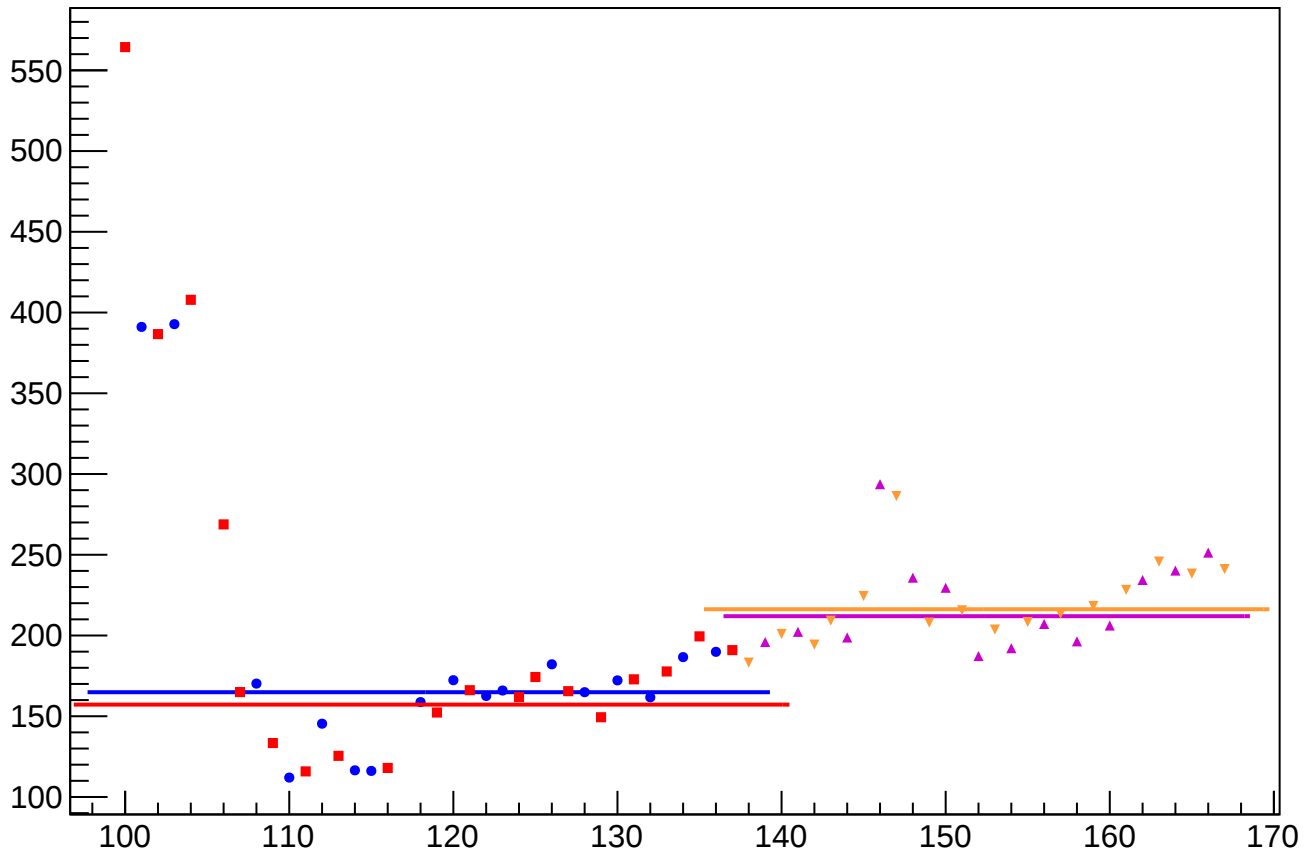
All: 182.354 $\pm$ 0.022 χ^2 /NDF: 4233235.8/65

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700 $\pm$ 0.068	χ^2 /NDF: 24844912.0/16	Left: 141478.243 $\pm$ 0.046	χ^2 /NDF: 1223611018.3/2
Left Out: 141576.505 $\pm$ 0.064	χ^2 /NDF: 709288764.5/15	Right: 139649.322 $\pm$ 0.046	χ^2 /NDF: 63304699.0/35
Right Out: 139661.970 $\pm$ 0.063	χ^2 /NDF: 38372985.0/18	In: 140534.189 $\pm$ 0.047	χ^2 /NDF: 874900026.0/30
Left In: 141374.285 $\pm$ 0.066	χ^2 /NDF: 509422241.8/13	Out: 140609.505 $\pm$ 0.045	χ^2 /NDF: 1204198831.3/3
		All: 140573.731 $\pm$ 0.032	χ^2 /NDF: 208044132

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 216.256 $\pm$ 0.045 χ^2 /NDF:225717.5/15

Right Out: 157.207 $\pm$ 0.045 χ^2 /NDF: 1245030.9/18

Left In: 211.957 $\pm$ 0.046 χ^2 /NDF:281122.0/13

Left: 214.167 $\pm$ 0.032 χ^2 /NDF: 511268.0/29

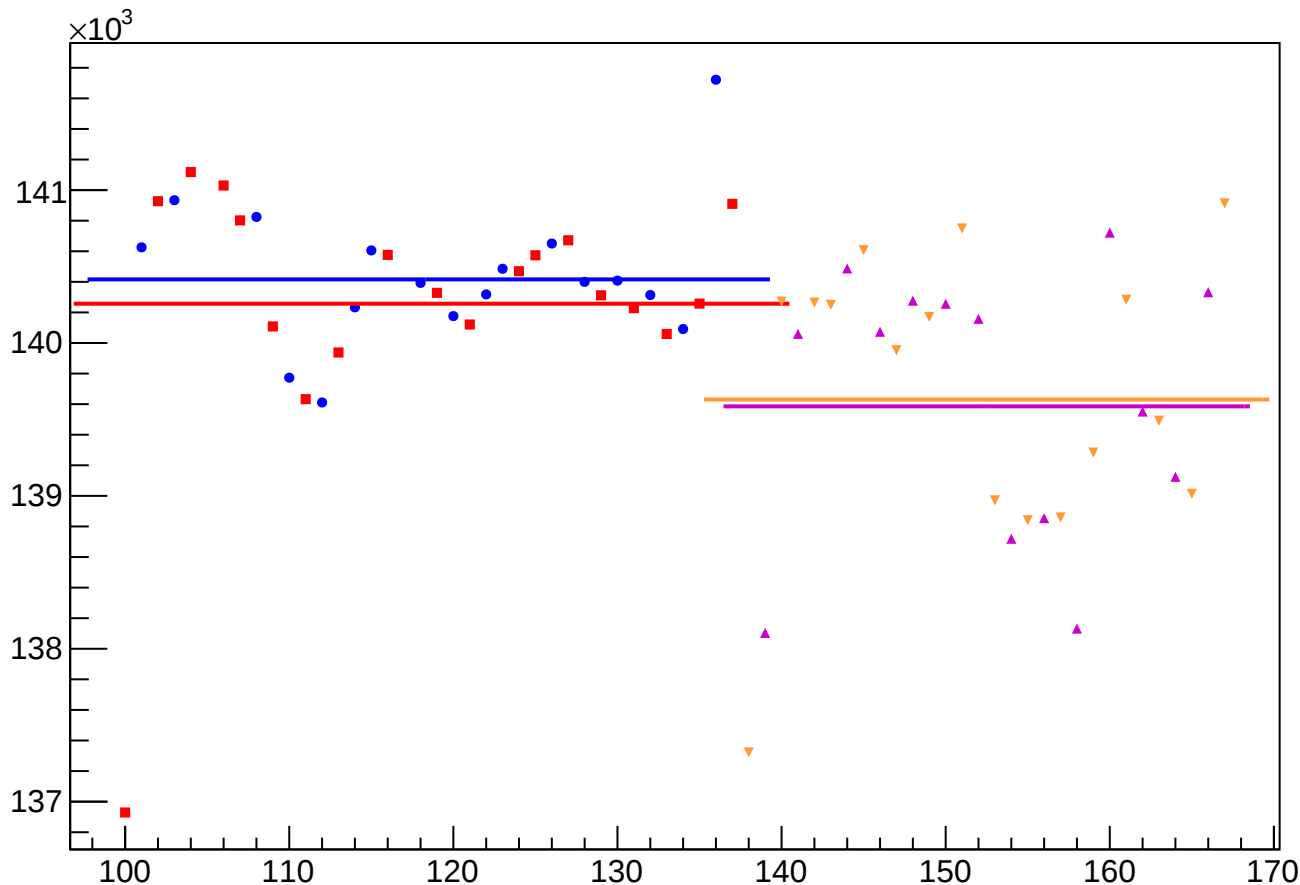
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 189.224 $\pm$ 0.033 χ^2 /NDF:1846241.6/30

Out: 186.432 $\pm$ 0.032 χ^2 /NDF:2339310.5/34

All: 187.758 $\pm$ 0.023 χ^2 /NDF: 4189244.3/65

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068

χ^2/NDF : 69975821.3/16

Left Out: 139630.253 $\pm$ 0.060

χ^2/NDF : 268927049.9/15

Right Out: 140256.992 $\pm$ 0.063

χ^2/NDF : 38063371.4/18

Left In: 139585.600 $\pm$ 0.062

χ^2/NDF : 209695993.7/13

Left: 139608.786 $\pm$ 0.043

χ^2/NDF : 478892457.2/29

Right: 140330.188 $\pm$ 0.046

χ^2/NDF : 110959487.0/3

In: 139960.143 $\pm$ 0.046

χ^2/NDF : 360613934.5/30

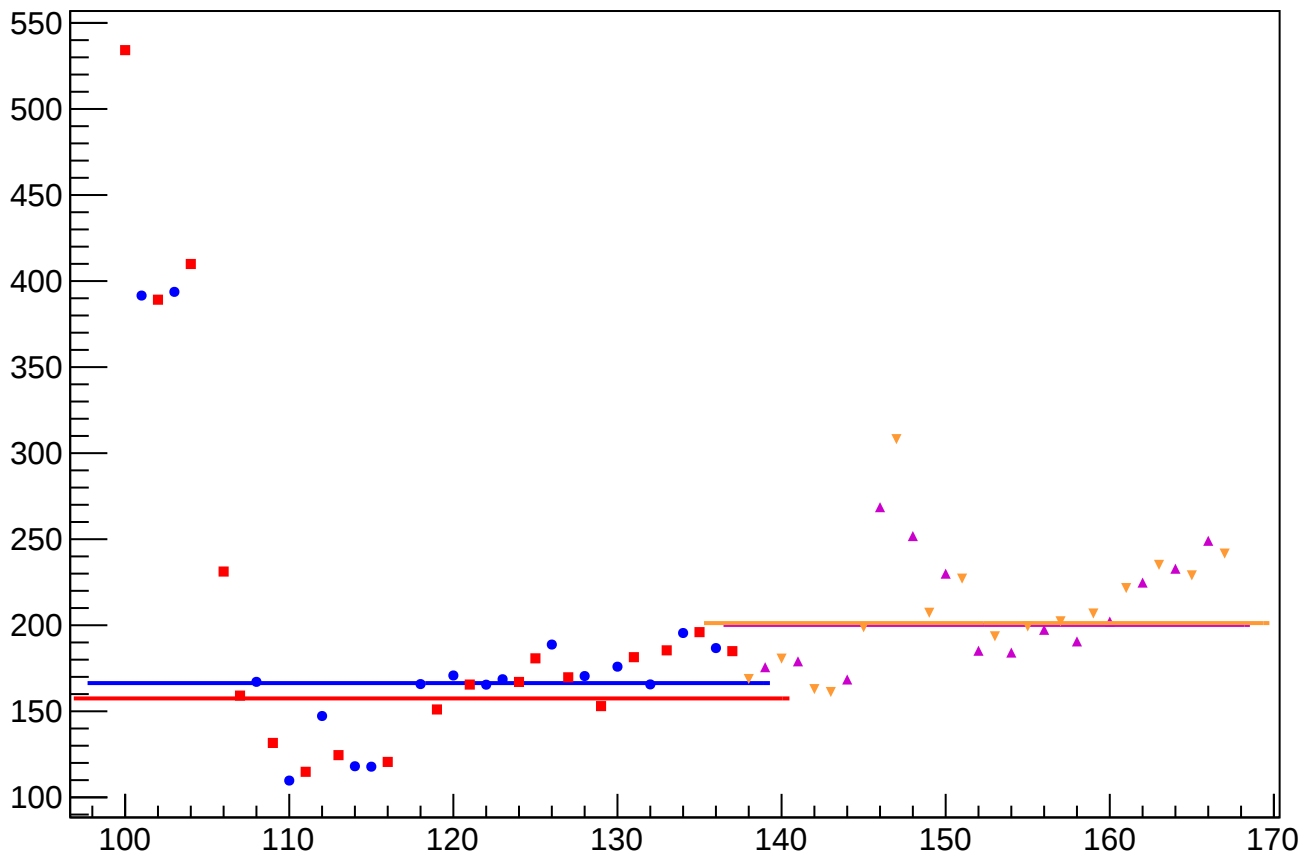
Out: 139925.799 $\pm$ 0.043

χ^2/NDF : 359051158.7/34

All: 139941.983 $\pm$ 0.032

χ^2/NDF : 719960723

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388+/-0.048 χ^2/NDF : 1080964.8/16

Left Out: 201.255+/-0.042 χ^2/NDF : 515538.1/15

Right Out: 157.475+/-0.045 χ^2/NDF : 1229886.8/18

Left In: 200.197+/-0.044 χ^2/NDF : 415770.1/13

Left: 200.746+/-0.030 χ^2/NDF : 931610.6/29

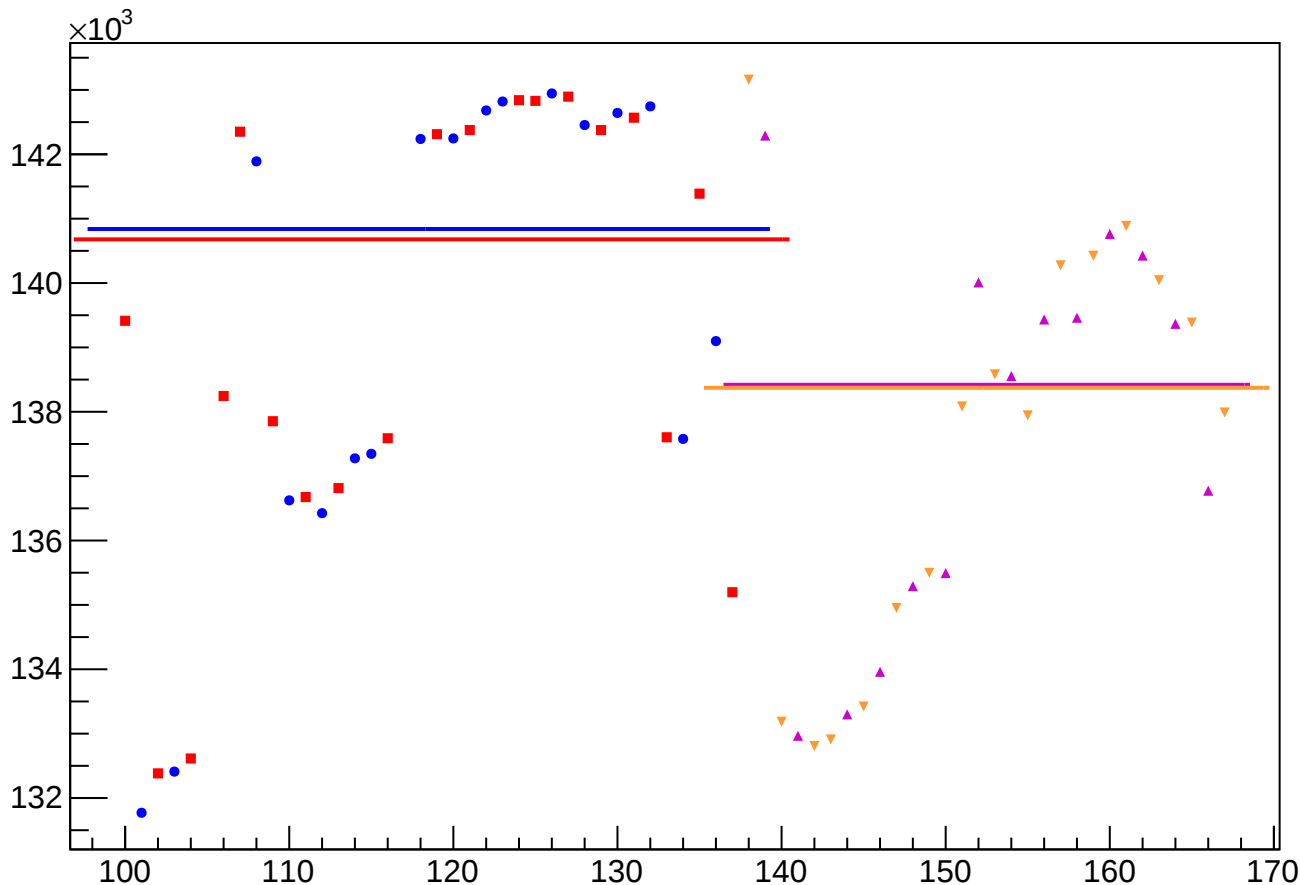
Right: 161.576+/-0.033 χ^2/NDF : 2329186.5/35

In: 184.949+/-0.032 χ^2/NDF : 1765044.4/30

Out: 180.610+/-0.031 χ^2/NDF : 2253482.6/34

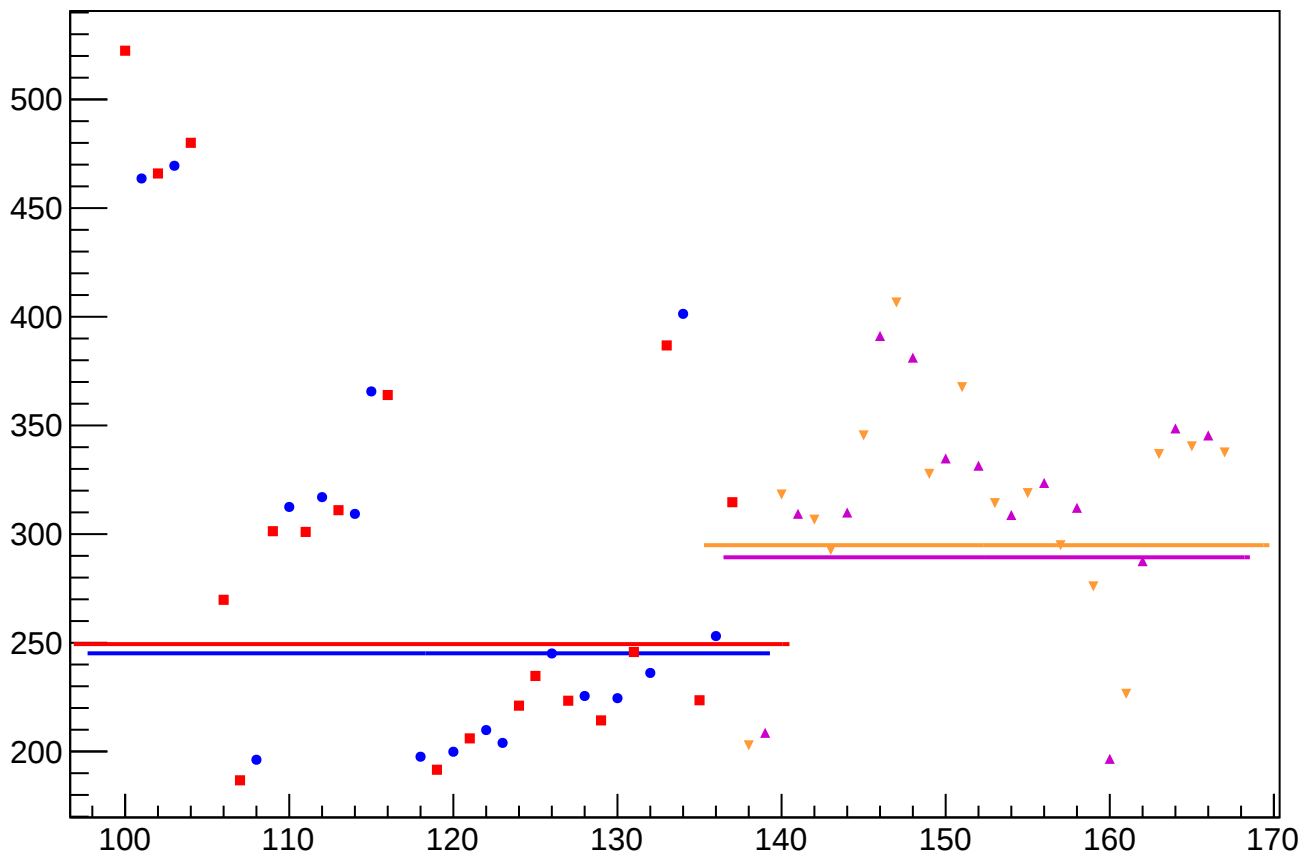
All: 182.655+/-0.022 χ^2/NDF : 4027963.8/65

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 138395.334 $\pm$ 0.064	χ^2/NDF : 2509536429.1/2
Left Out: 138372.779 $\pm$ 0.088	χ^2/NDF : 1396053223.4/15	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: 139394.925 $\pm$ 0.066	χ^2/NDF : 2538106826.7/3
		All: 139455.489 $\pm$ 0.047	χ^2/NDF : 479530082.0/1

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 294.905 $\pm$ 0.063 χ^2 /NDF: 757505.8/15

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: 292.207 $\pm$ 0.045 χ^2 /NDF: 1663459.4/29

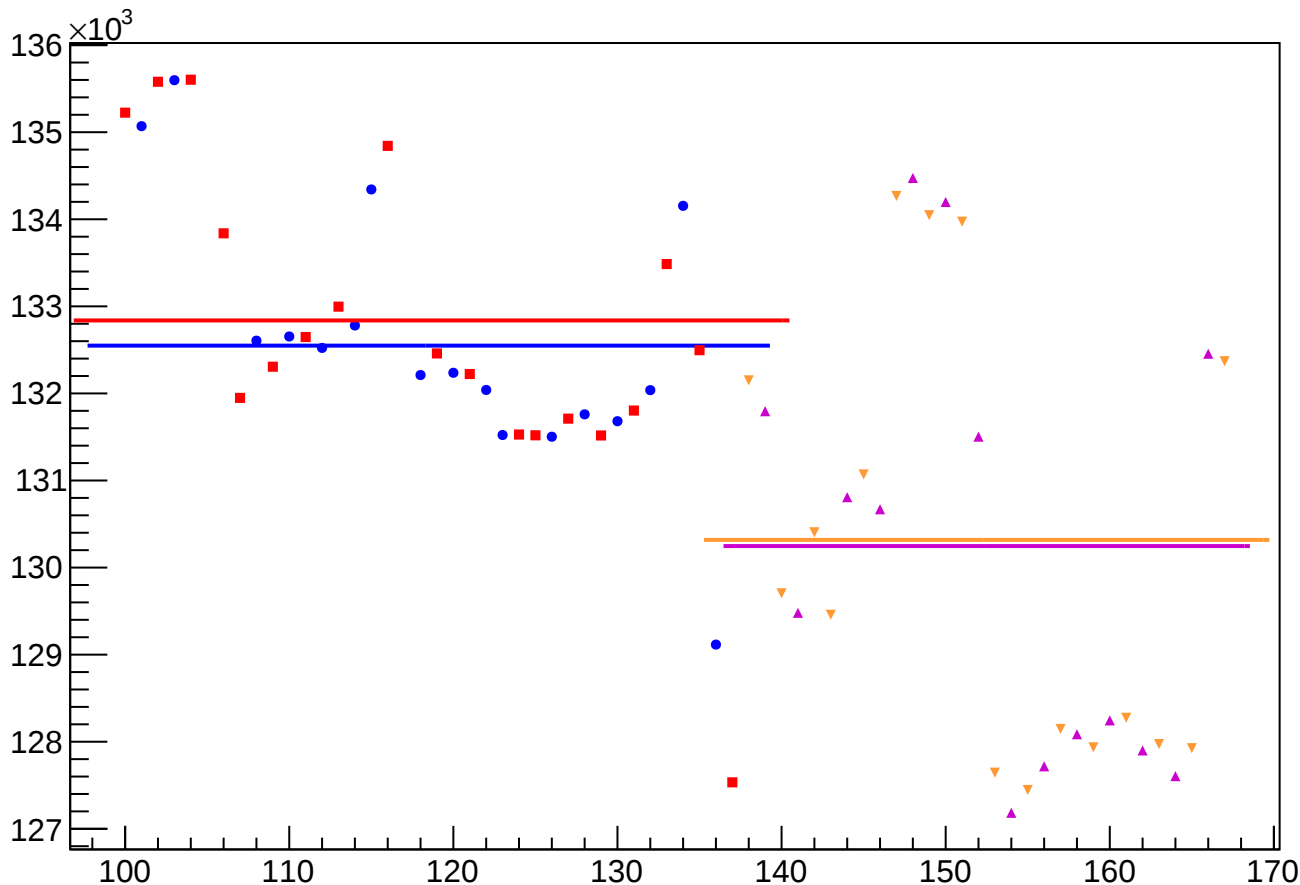
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 269.265 $\pm$ 0.048 χ^2 /NDF: 1984539.5/30

Out: 274.731 $\pm$ 0.047 χ^2 /NDF: 2002020.6/34

All: 272.056 $\pm$ 0.033 χ^2 /NDF: 3993274.8/65

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2/NDF : 161115079.9/16

Left Out: 130318.078 $\pm$ 0.078 χ^2/NDF : 677867655.0/15

Right Out: 132838.294 $\pm$ 0.107 χ^2/NDF : 149611447.6/18

Left In: 130246.846 $\pm$ 0.084 χ^2/NDF : 559658399.4/13

Left: 130285.061 $\pm$ 0.057 χ^2/NDF : 1237909536.3/2

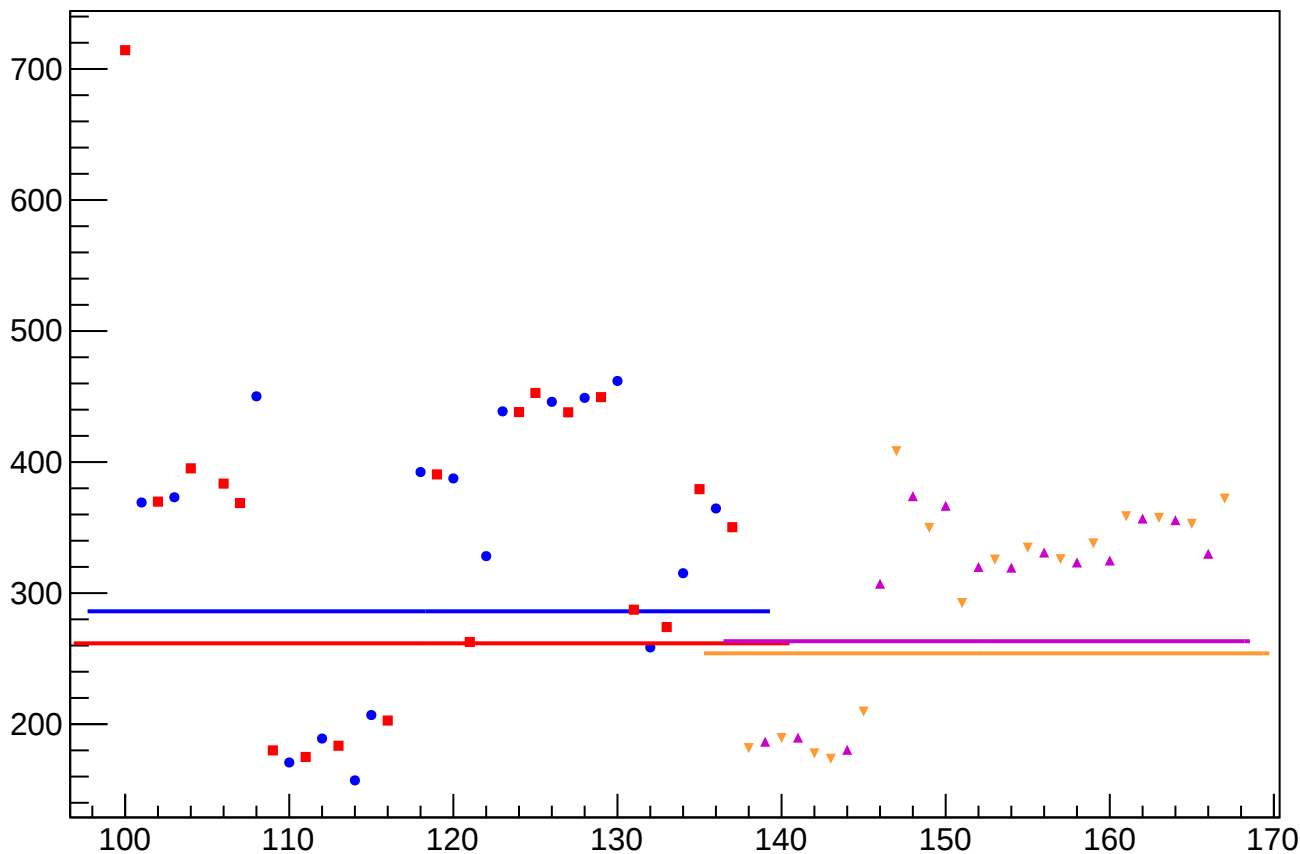
Right: 132709.226 $\pm$ 0.080 χ^2/NDF : 313982981.1/3

In: 131012.301 $\pm$ 0.069 χ^2/NDF : 969012726.4/30

Out: 131196.103 $\pm$ 0.063 χ^2/NDF : 1188290521.6/3

All: 131112.008 $\pm$ 0.047 χ^2/NDF : 216117107

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 $\pm$ 0.084 χ^2 /NDF: 1525266.4/16

Left Out: 254.051 $\pm$ 0.055 χ^2 /NDF: 2096524.7/15

Right Out: 261.686 $\pm$ 0.076 χ^2 /NDF: 1623174.1/18

Left In: 263.309 $\pm$ 0.060 χ^2 /NDF: 1632987.9/13

Left: 258.342 $\pm$ 0.041 χ^2 /NDF: 3742469.0/29

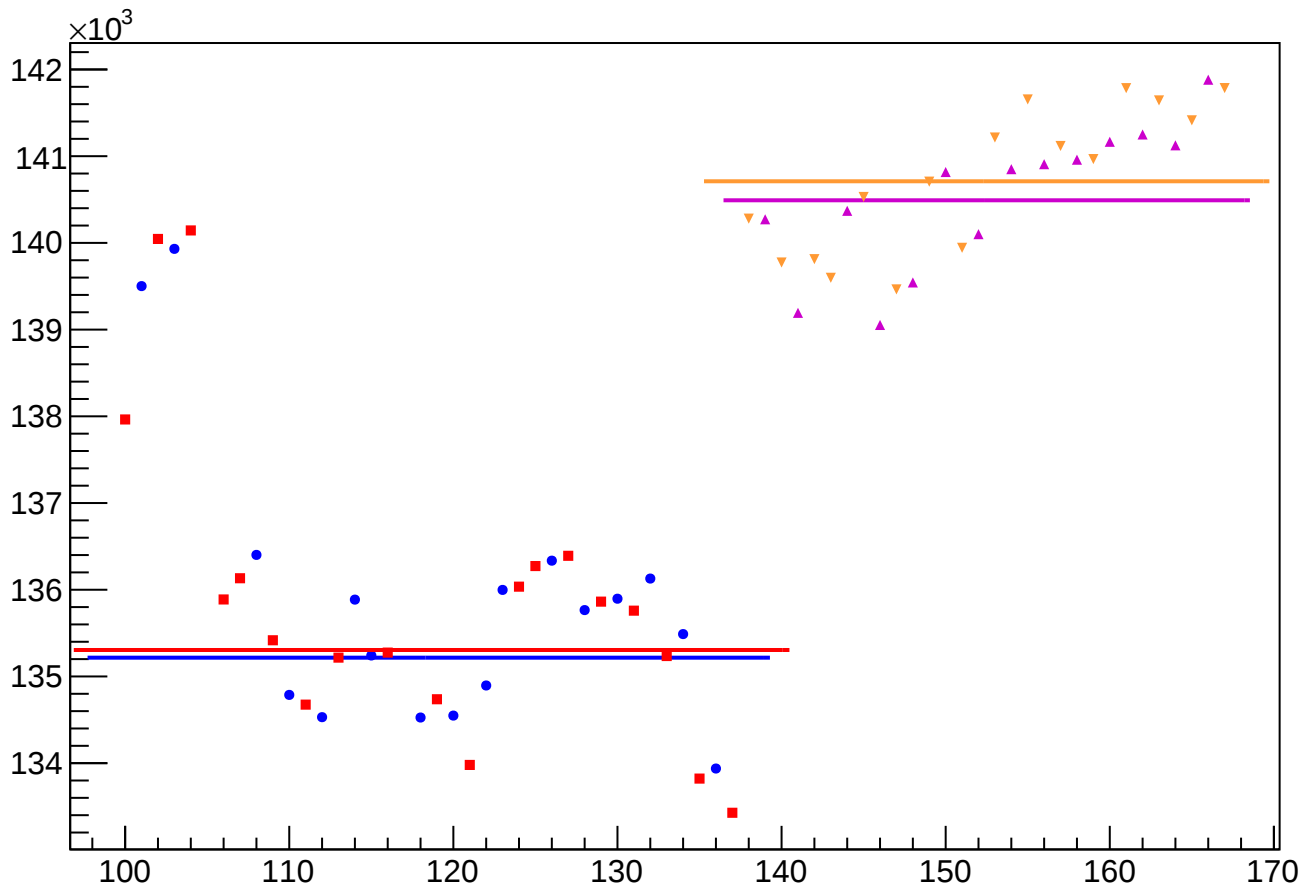
Right: 272.584 $\pm$ 0.056 χ^2 /NDF: 3194872.3/35

In: 270.894 $\pm$ 0.049 χ^2 /NDF: 3207013.2/30

Out: 256.711 $\pm$ 0.045 χ^2 /NDF: 3726323.1/34

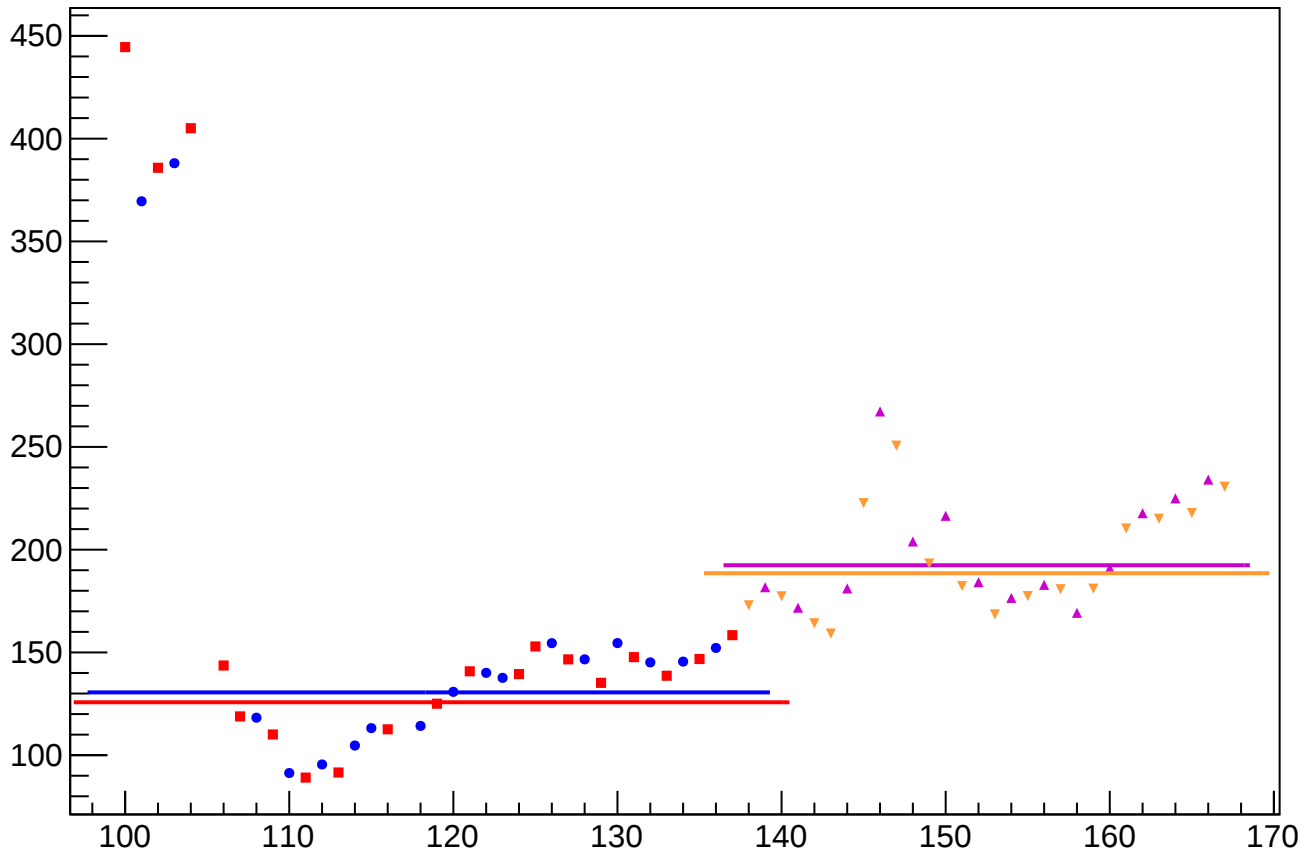
All: 263.200 $\pm$ 0.033 χ^2 /NDF: 6979402.1/65

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054	χ^2 /NDF: 371347707.3/16	Left: 140608.109 $\pm$ 0.041	χ^2 /NDF: 351040099.1/29
Left Out: 140710.634 $\pm$ 0.056	χ^2 /NDF: 194081907.7/15	Right: 135263.557 $\pm$ 0.037	χ^2 /NDF: 730392205.8/3
Right Out: 135305.135 $\pm$ 0.051	χ^2 /NDF: 357636841.6/18	In: 137614.263 $\pm$ 0.040	χ^2 /NDF: 4801631625.8/30
Left In: 140491.369 $\pm$ 0.060	χ^2 /NDF: 149738357.7/13	Out: 137772.853 $\pm$ 0.038	χ^2 /NDF: 5651894469.2/3
		All: 137698.529 $\pm$ 0.027	χ^2 /NDF: 104618184

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 188.538 $\pm$ 0.039 χ^2 /NDF: 354742.1/15

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: 190.356 $\pm$ 0.029 χ^2 /NDF: 667479.3/29

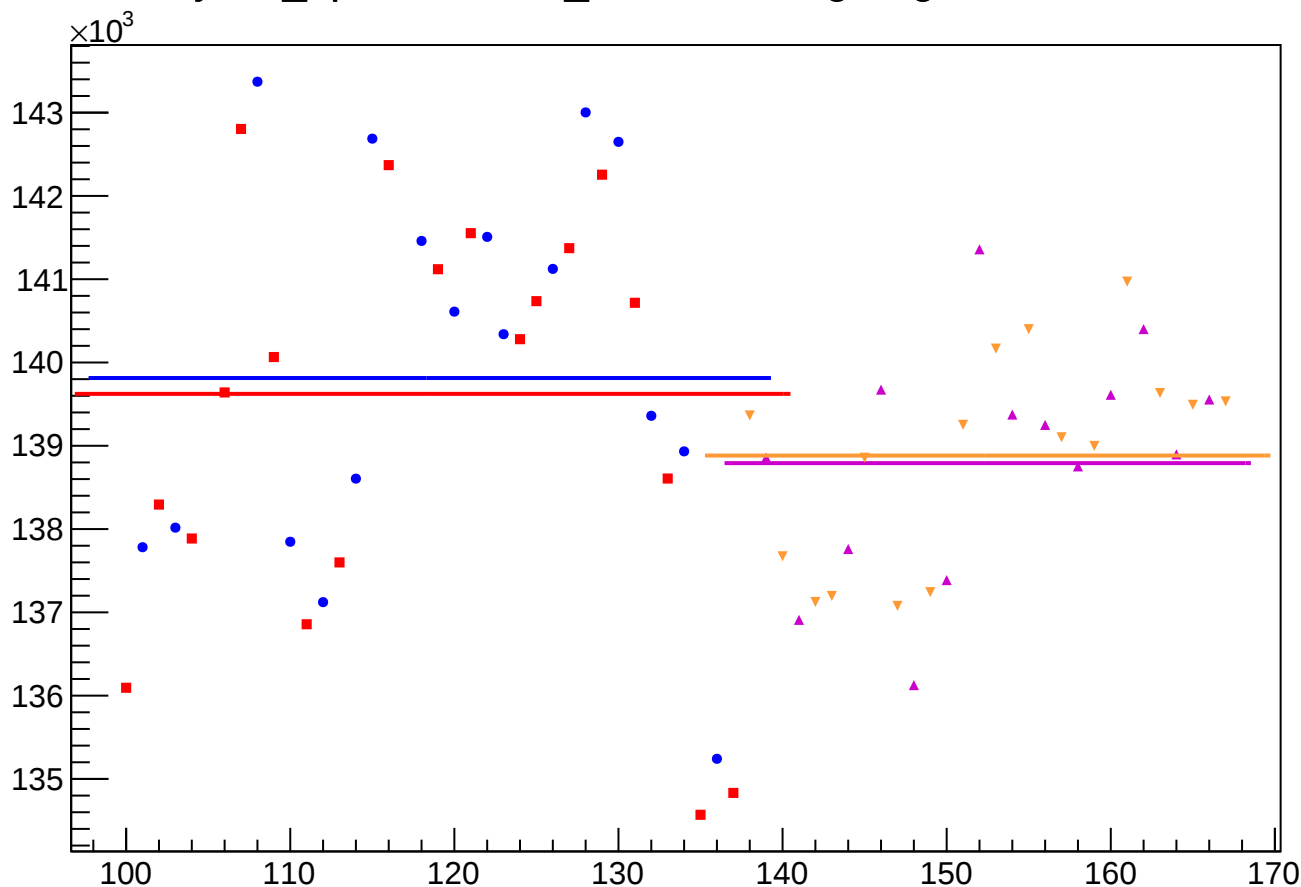
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 158.677 $\pm$ 0.028 χ^2 /NDF: 2859341.1/30

Out: 154.411 $\pm$ 0.027 χ^2 /NDF: 3171179.5/34

All: 156.411 $\pm$ 0.019 χ^2 /NDF: 6042520.8/65

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2 /NDF: 1689865533.6/16

Left Out: 138882.777 $\pm$ 0.057

χ^2 /NDF: 440546771.1/15

Right Out: 139623.387 $\pm$ 0.059

χ^2 /NDF: 1505731109.1/18

Left In: 138791.601 $\pm$ 0.060

χ^2 /NDF: 523920220.6/13

Left: 138839.315 $\pm$ 0.041

χ^2 /NDF: 965671163.8/29

Right: 139713.961 $\pm$ 0.043

χ^2 /NDF: 3200544274.5/15

In: 139287.423 $\pm$ 0.043

χ^2 /NDF: 2354056490.1/30

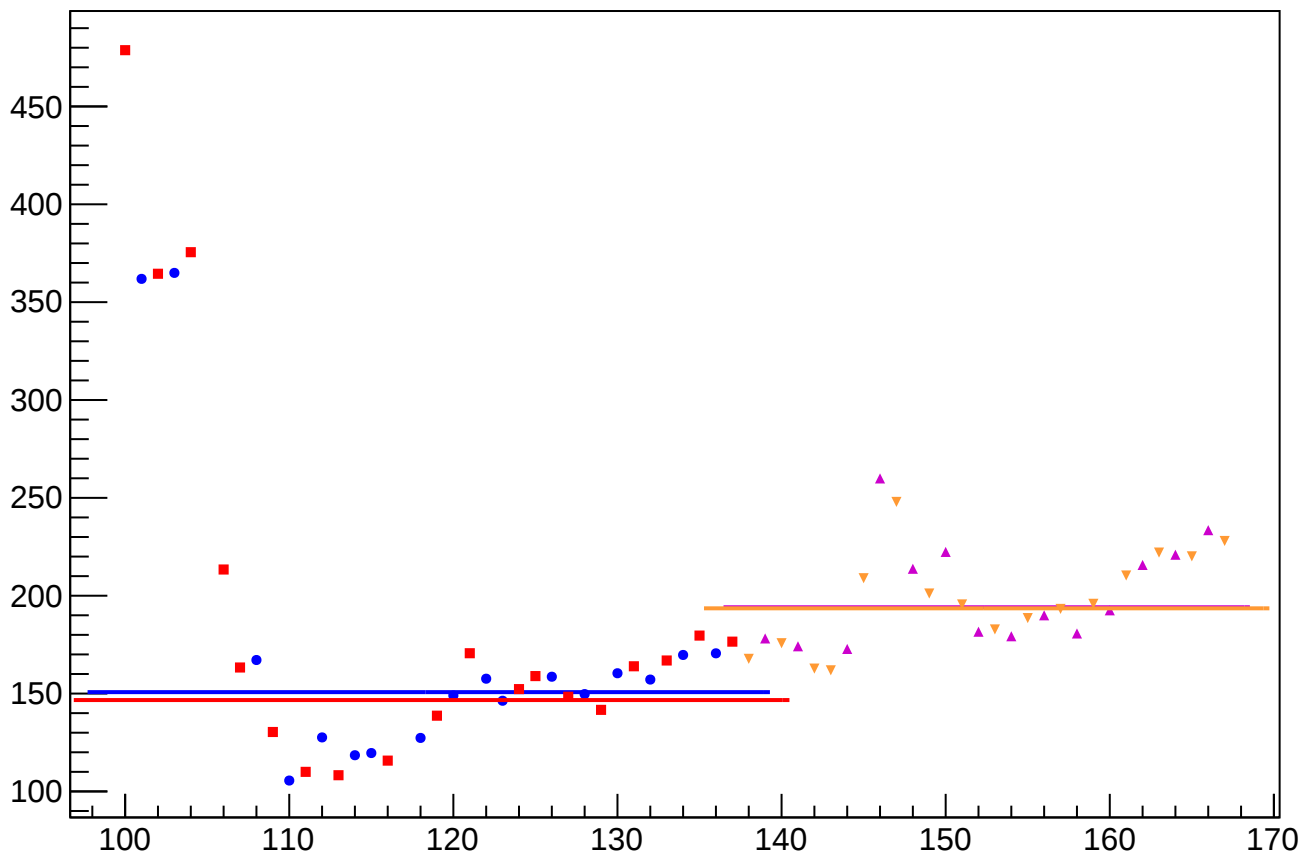
Out: 139242.557 $\pm$ 0.041

χ^2 /NDF: 2027249154.1/30

All: 139263.929 $\pm$ 0.030

χ^2 /NDF: 438187230.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2/NDF : 1050071.6/16

Left Out: 193.557 $\pm$ 0.041 χ^2/NDF :305740.8/15

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: 193.822 $\pm$ 0.029 χ^2/NDF : 594331.7/29

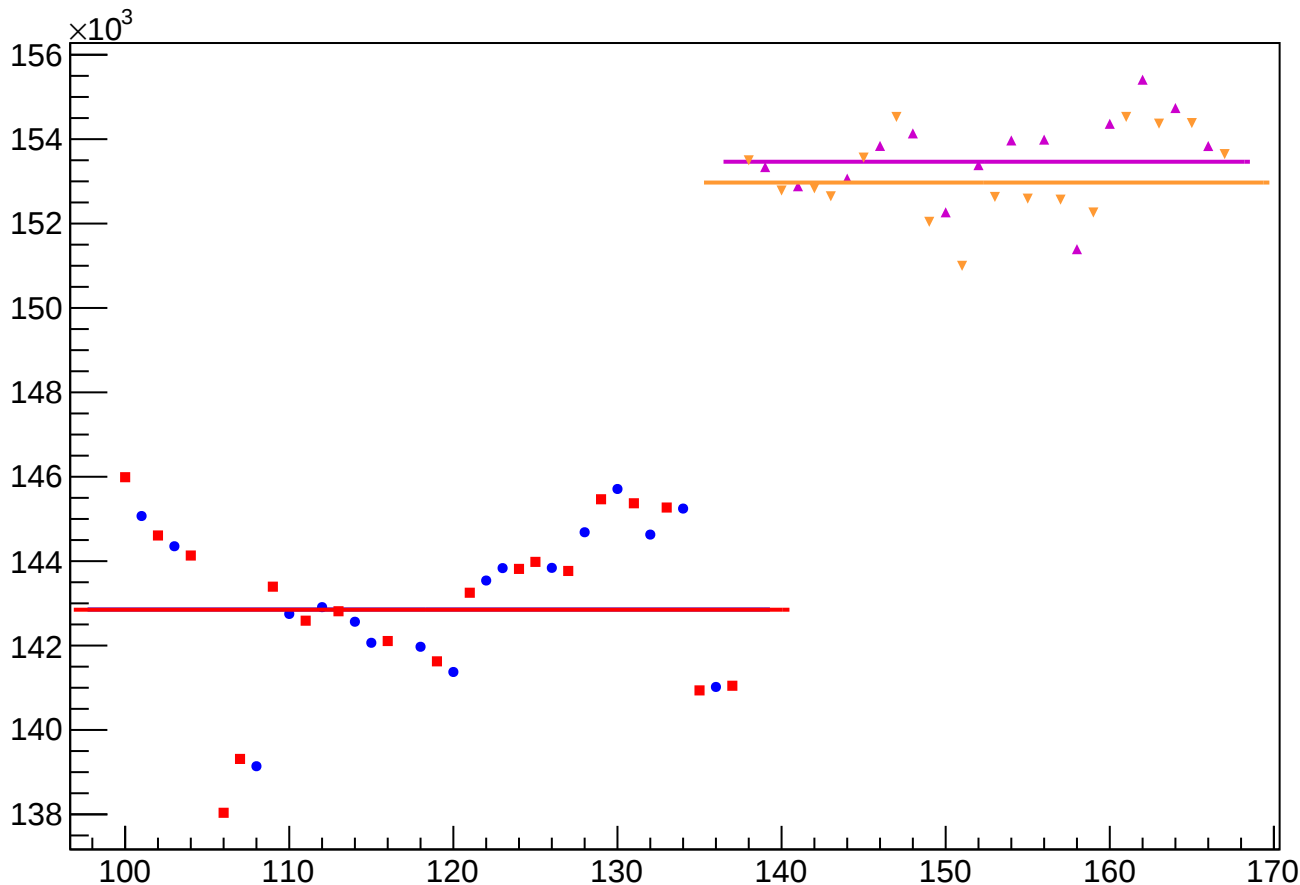
Right: 148.612 $\pm$ 0.030 χ^2/NDF : 2257655.3/35

In: 173.069 $\pm$ 0.030 χ^2/NDF :1843960.7/30

Out: 170.787 $\pm$ 0.029 χ^2/NDF :2157475.8/34

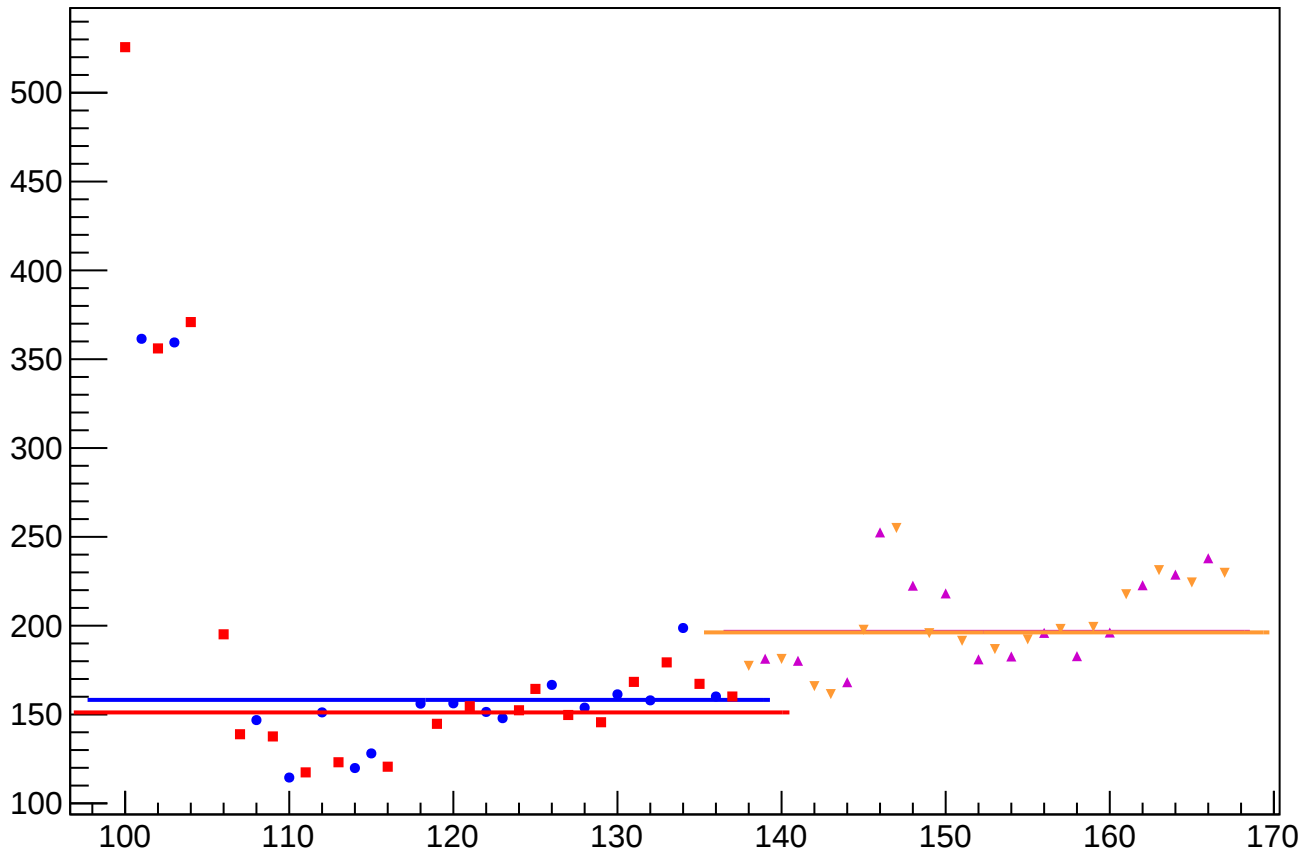
All: 171.874 $\pm$ 0.021 χ^2/NDF : 4004366.4/65

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268+/-0.065	χ^2/NDF : 740367386.5/16	Left: 153207.179+/-0.042	χ^2/NDF : 551397880.6/29
Left Out: 152971.919+/-0.058	χ^2/NDF : 259116469.2/15	Right: 142851.648+/-0.044	χ^2/NDF : 1590437268.8/30
Right Out: 142849.362+/-0.060	χ^2/NDF : 850066807.5/18	In: 148487.916+/-0.044	χ^2/NDF : 15294602278.2/30
Left In: 153464.870+/-0.061	χ^2/NDF : 257892133.9/13	Out: 148109.177+/-0.042	χ^2/NDF : 15705540949.3/30
		All: 148287.892+/-0.030	χ^2/NDF : 310387703.0/63

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 196.226+/-0.041 χ^2/NDF : 301919.4/15

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: 196.374+/-0.030 χ^2/NDF : 594964.4/29

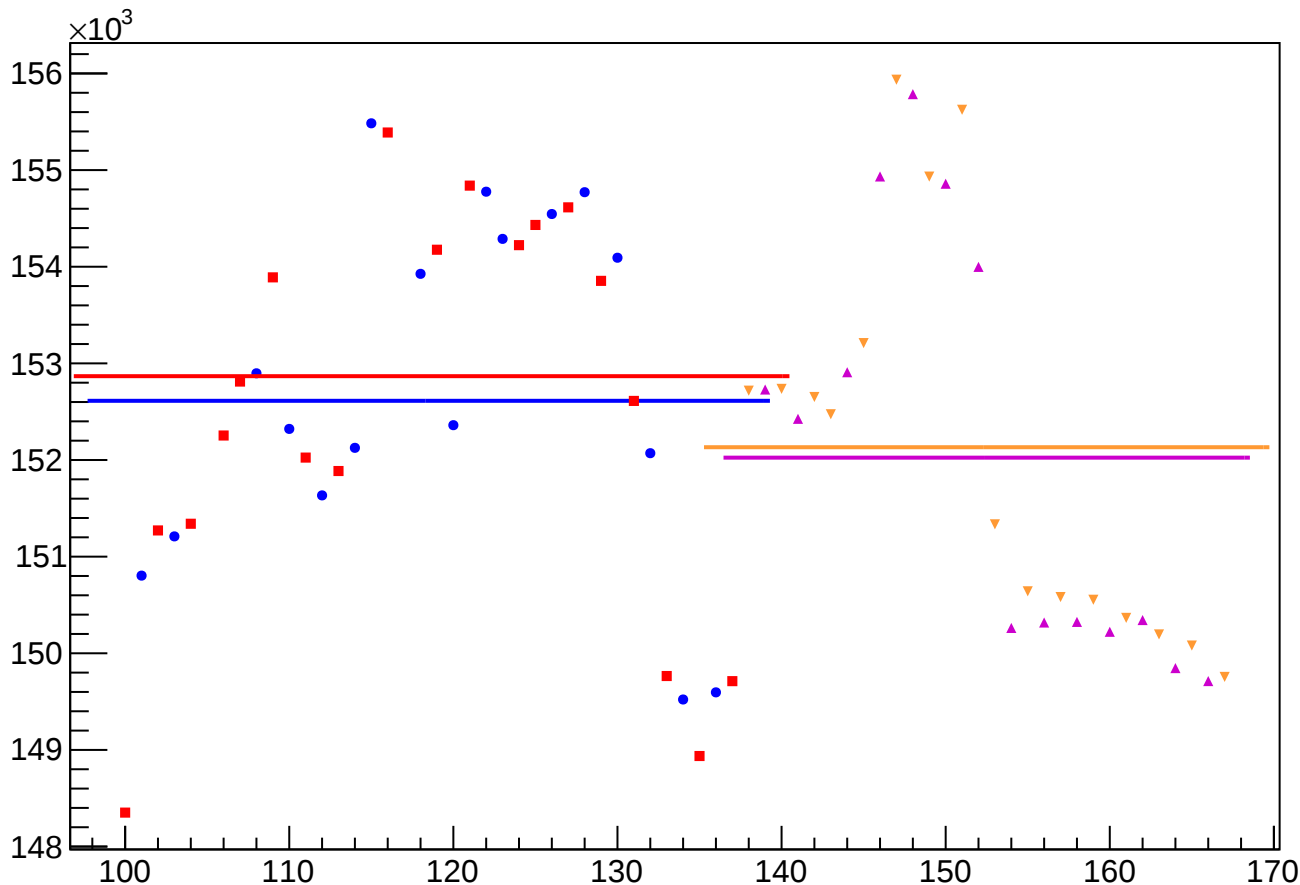
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 178.569+/-0.031 χ^2/NDF : 1549126.2/30

Out: 174.584+/-0.030 χ^2/NDF : 1883485.0/34

All: 176.464+/-0.022 χ^2/NDF : 3441166.0/65

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16

Left Out: 152132.286 $\pm$ 0.058 χ^2 /NDF: 997280475.3/15

Right Out: 152867.453 $\pm$ 0.066 χ^2 /NDF: 719075986.4/18

Left In: 152024.405 $\pm$ 0.061 χ^2 /NDF: 1002588594.5/13

Left: 152080.833 $\pm$ 0.042 χ^2 /NDF: 2001514042.4/2

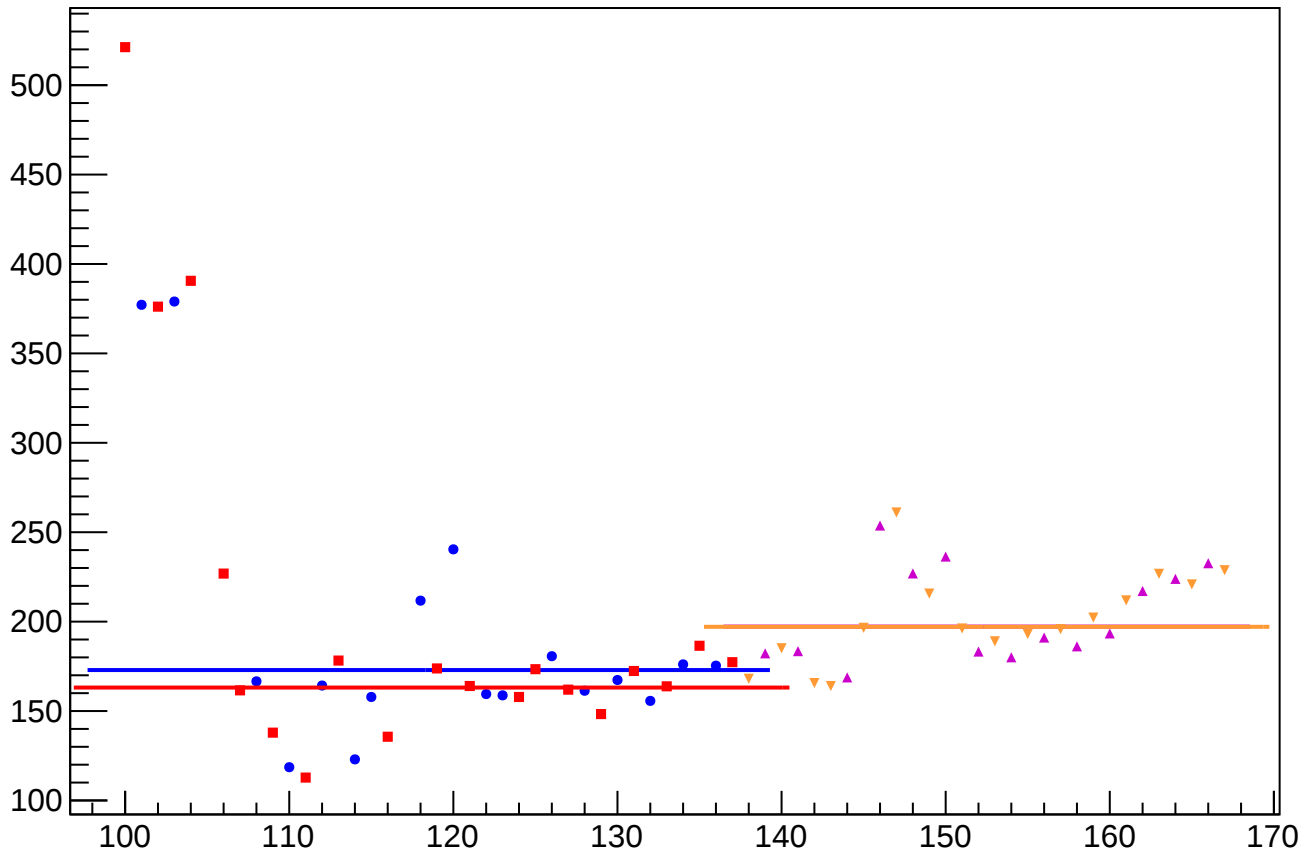
Right: 152750.957 $\pm$ 0.049 χ^2 /NDF: 1347263895.4/3

In: 152268.741 $\pm$ 0.047 χ^2 /NDF: 1662838812.2/30

Out: 152452.007 $\pm$ 0.044 χ^2 /NDF: 1786014412.0/3

All: 152366.150 $\pm$ 0.032 χ^2 /NDF: 345710497

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 197.104+/-0.041 χ^2/NDF : 318082.6/15

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 197.227+/-0.043 χ^2/NDF : 305145.5/13

Left: 197.163+/-0.030 χ^2/NDF : 623232.4/29

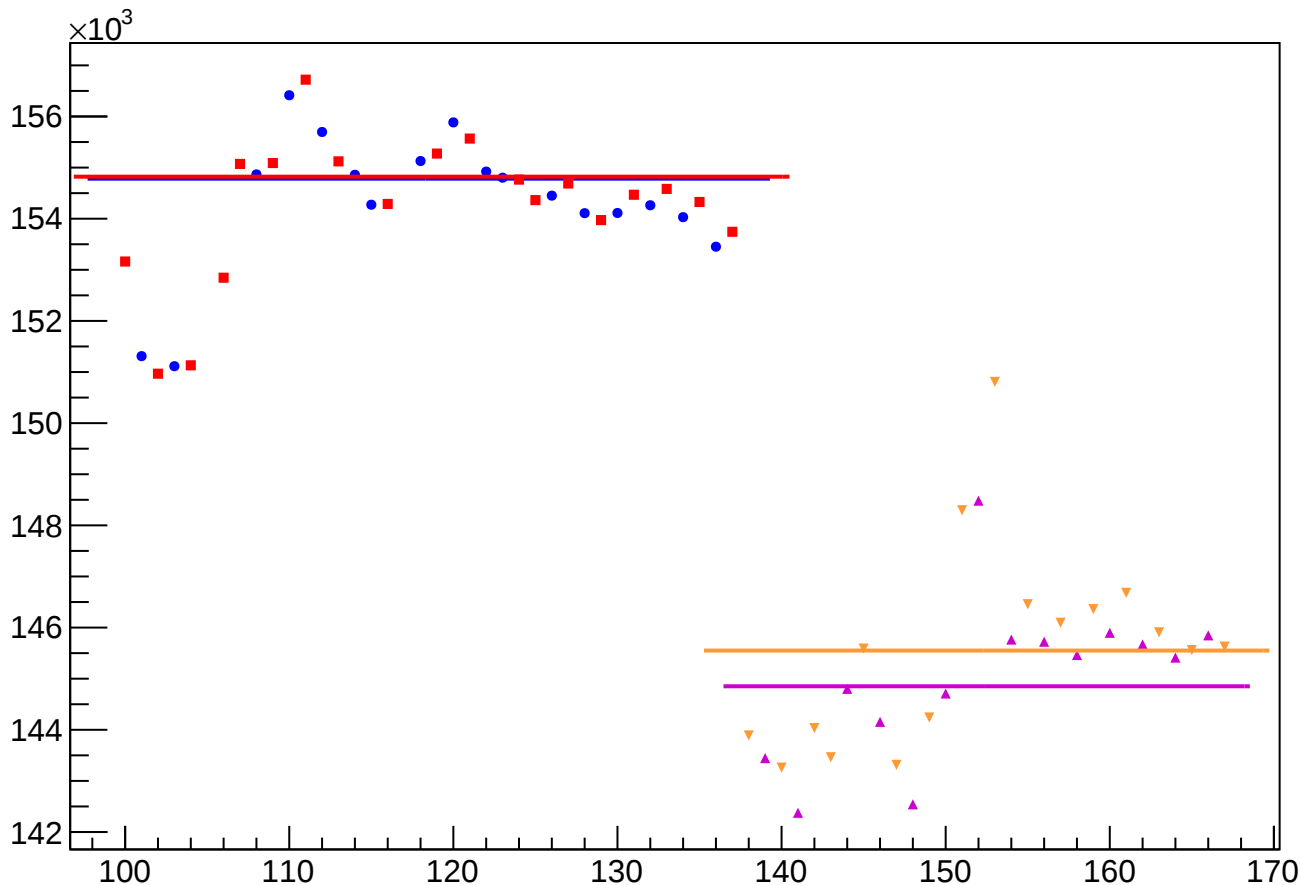
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 187.130+/-0.033 χ^2/NDF : 1379736.0/30

Out: 182.333+/-0.031 χ^2/NDF : 1649222.8/34

All: 184.580+/-0.023 χ^2/NDF : 3040268.2/65

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944+/-0.065 χ^2/NDF : 265581398.0/16

Left Out: 145550.493+/-0.054 χ^2/NDF : 1481806688.4/15

Right Out: 154822.113+/-0.061 χ^2/NDF : 293850525.9/18

Left In: 144851.238+/-0.057 χ^2/NDF : 822202968.3/13

Left: 145218.701+/-0.039 χ^2/NDF : 2383280436.9/2

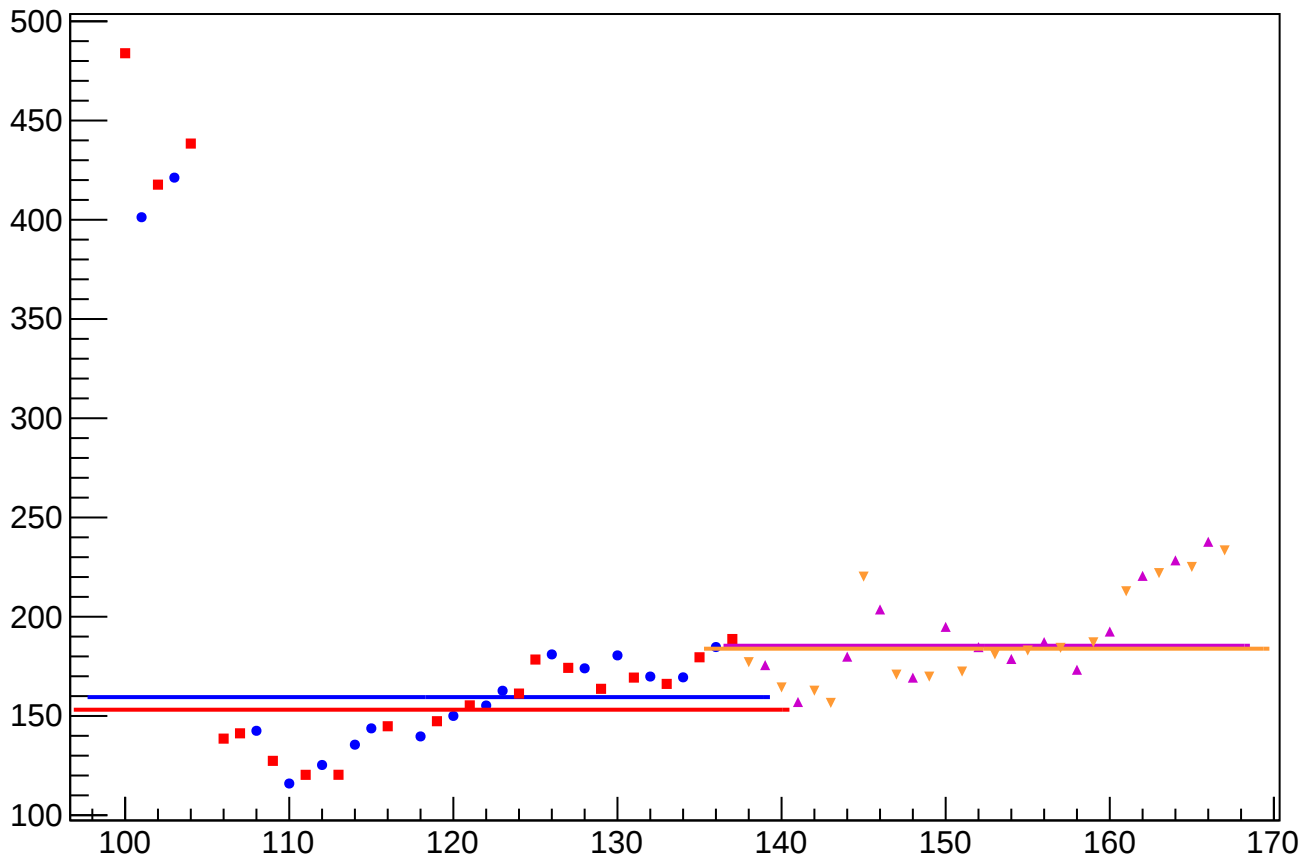
Right: 154804.381+/-0.045 χ^2/NDF : 559614489.4/3

In: 149135.836+/-0.043 χ^2/NDF : 14217060514.3/3

Out: 149640.868+/-0.040 χ^2/NDF : 14733399544.6

All: 149403.424+/-0.029 χ^2/NDF : 290237783

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2/NDF : 1131844.5/16

Left Out: 183.894 $\pm$ 0.038 χ^2/NDF : 329309.0/15

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: 184.600 $\pm$ 0.028 χ^2/NDF : 567526.2/29

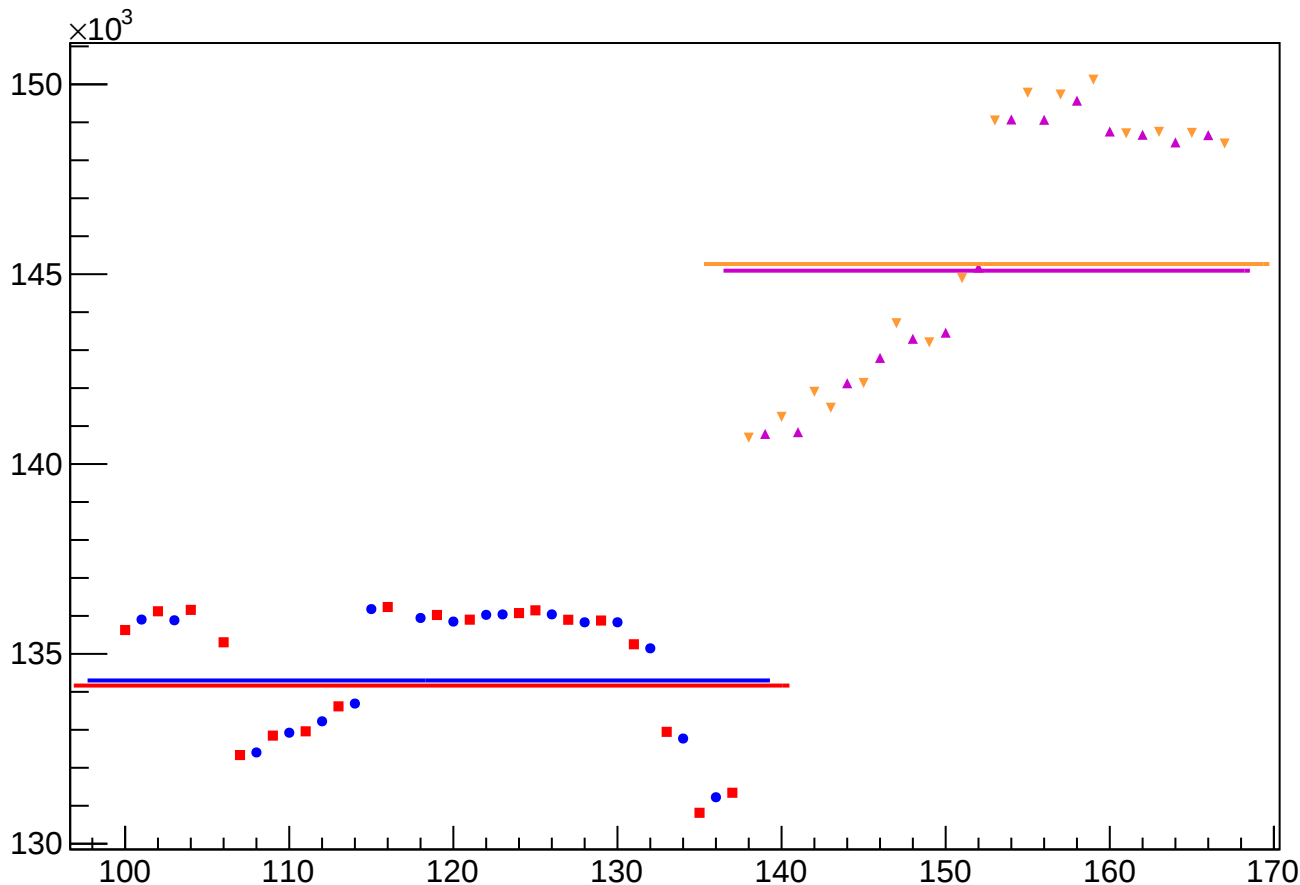
Right: 156.104 $\pm$ 0.032 χ^2/NDF : 2315690.5/35

In: 174.219 $\pm$ 0.030 χ^2/NDF : 1547587.7/30

Out: 170.332 $\pm$ 0.029 χ^2/NDF : 1787925.7/34

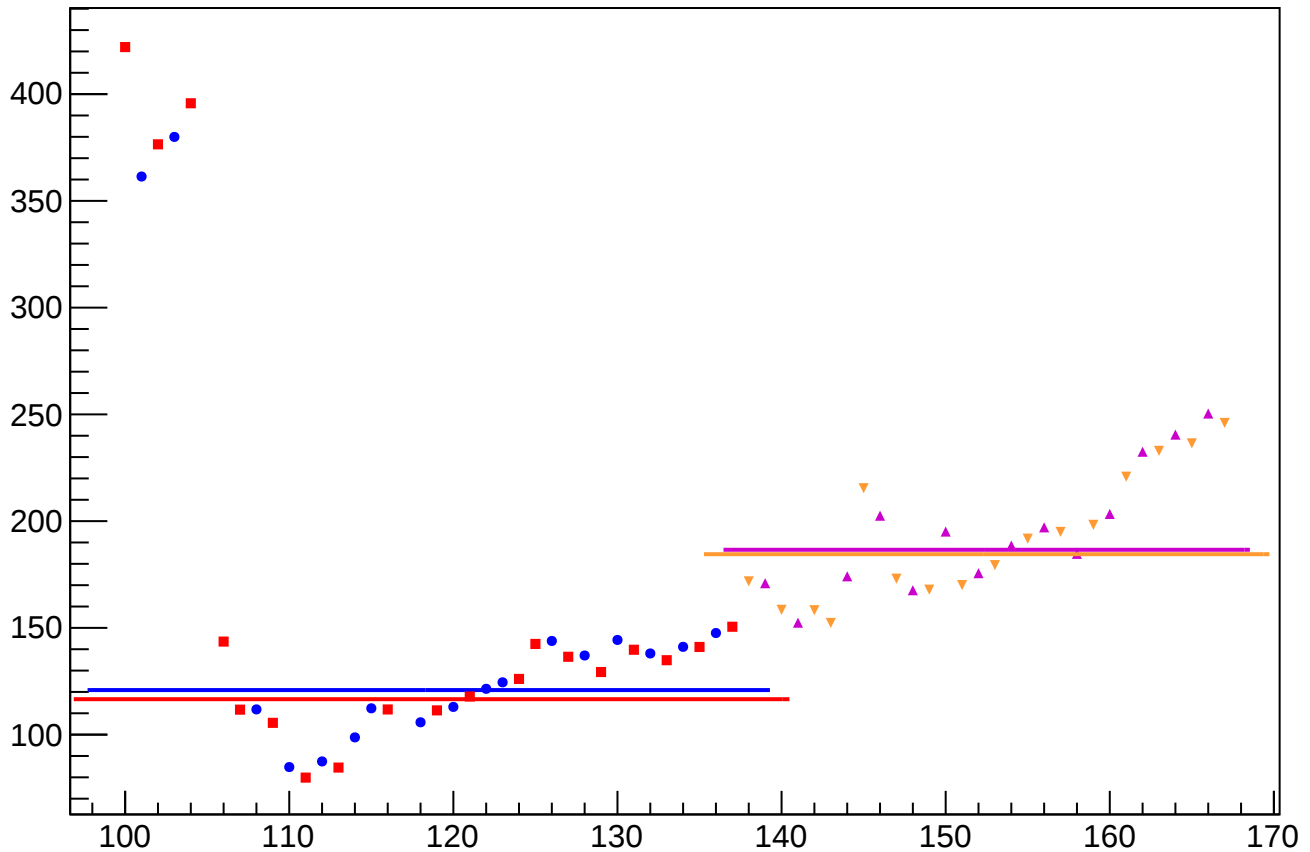
All: 172.160 $\pm$ 0.021 χ^2/NDF : 3344201.3/65

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 ± 0.050 $\chi^2/\text{NDF: } 1149581803.2/16$
 Left Out: 145267.495 ± 0.054 $\chi^2/\text{NDF: } 4221206305.0/15$
 Right Out: 134165.615 ± 0.047 $\chi^2/\text{NDF: } 1211471052.4/18$
 Left In: 145092.699 ± 0.058 $\chi^2/\text{NDF: } 3402343160.1/13$
 In: 138982.517 ± 0.038 $\chi^2/\text{NDF: } 24492687424.3/3$
 Out: 138948.915 ± 0.036 $\chi^2/\text{NDF: } 29075017495.6$
 All: 138964.747 ± 0.026 $\chi^2/\text{NDF: } 535681210$

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 184.510 $\pm$ 0.039 χ^2 /NDF: 472280.4/15

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 186.589 $\pm$ 0.041 χ^2 /NDF: 348275.1/13

Left: 185.493 $\pm$ 0.028 χ^2 /NDF: 821934.3/29

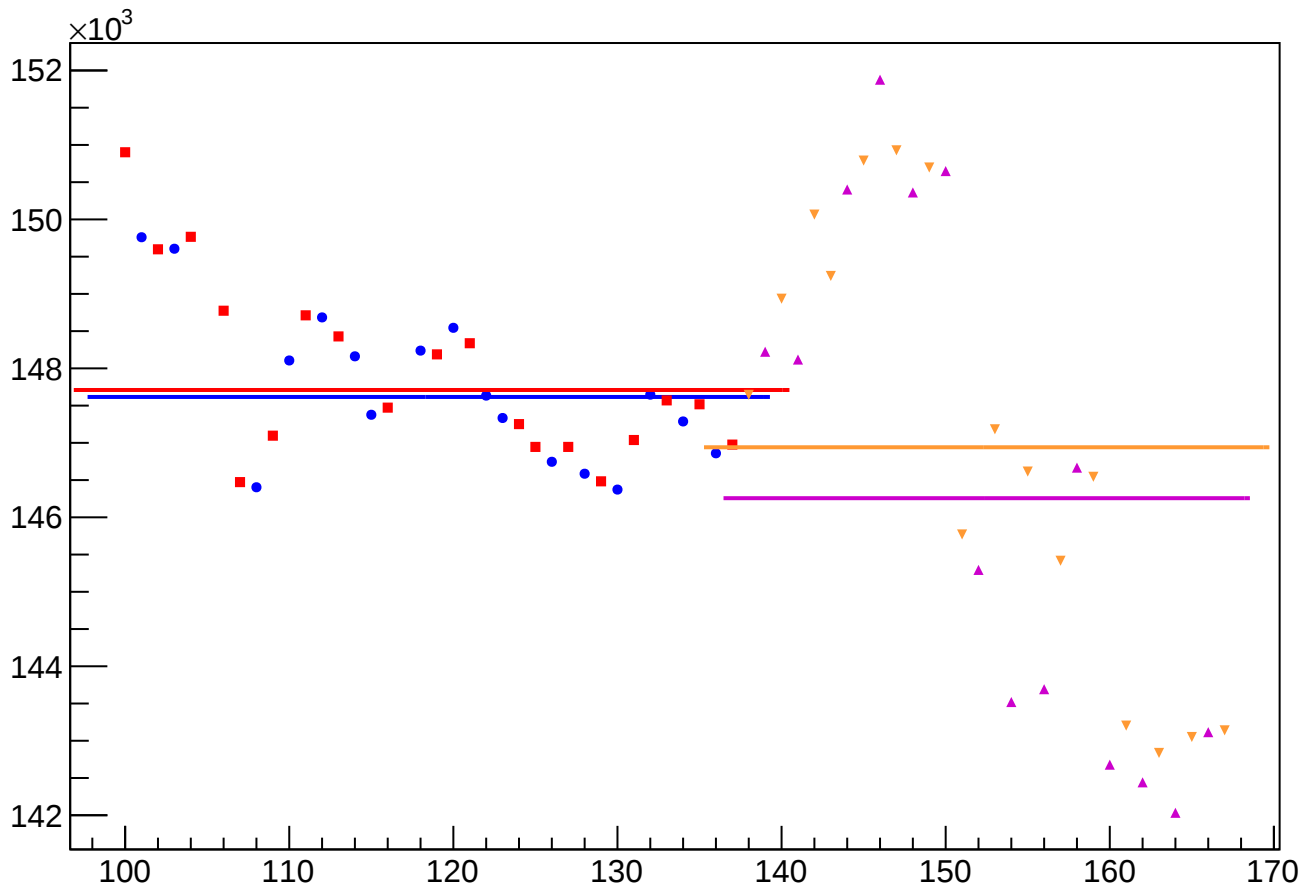
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 149.384 $\pm$ 0.027 χ^2 /NDF: 3290658.2/30

Out: 145.856 $\pm$ 0.025 χ^2 /NDF: 3783148.8/34

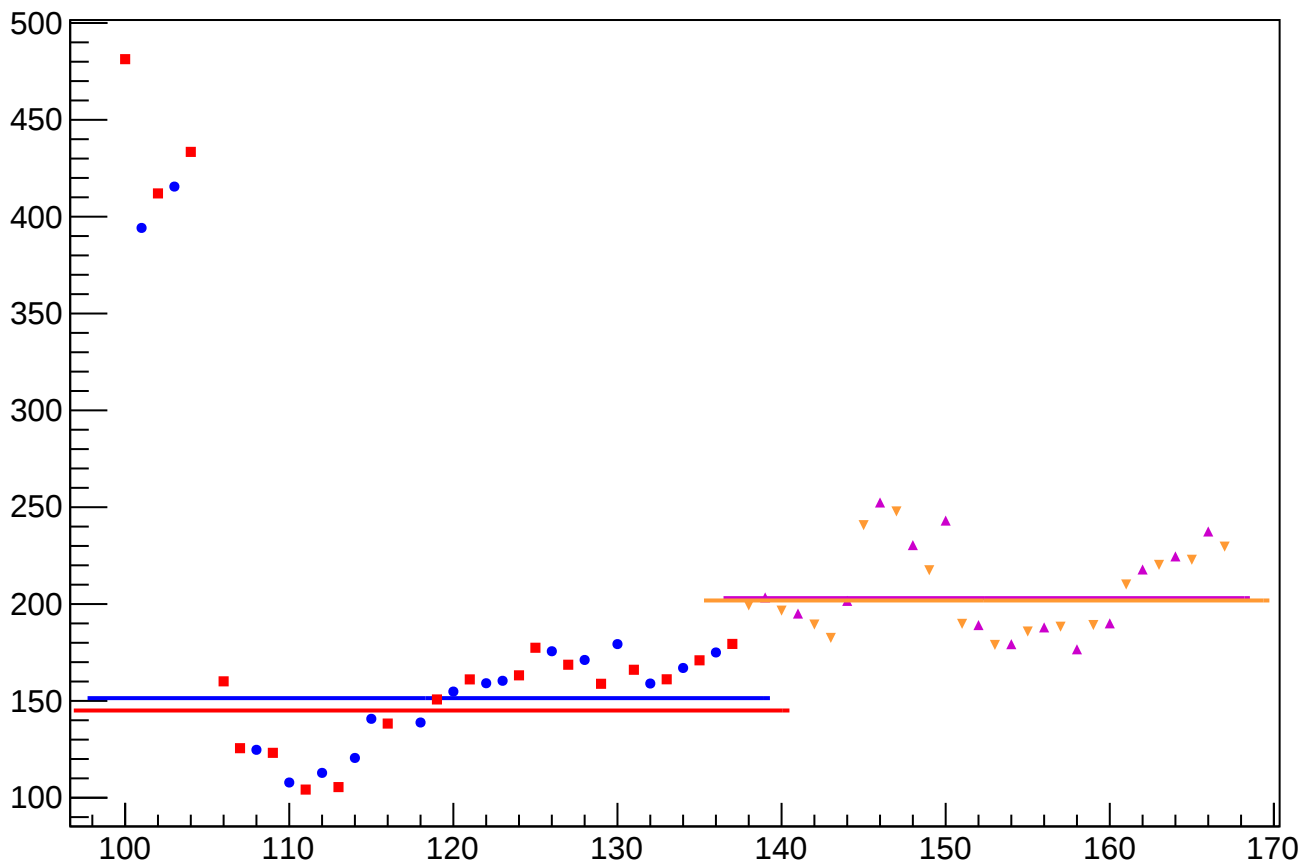
All: 147.518 $\pm$ 0.018 χ^2 /NDF: 7082982.8/65

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150+/-0.062 χ^2/NDF : 199263428.7/16
 Left Out: 146940.592+/-0.059 χ^2/NDF : 1922564551.5/15
 Right Out: 147709.723+/-0.058 χ^2/NDF : 203906685.9/18
 Left In: 146256.953+/-0.062 χ^2/NDF : 2597245111.5/13
 Left: 146616.295+/-0.043 χ^2/NDF : 4582802061.8/20
 Right: 147666.153+/-0.043 χ^2/NDF : 404368550.3/30
 In: 146936.174+/-0.044 χ^2/NDF : 3033234428.1/30
 Out: 147331.691+/-0.042 χ^2/NDF : 2211939386.1/30
 All: 147145.814+/-0.030 χ^2/NDF : 528767297.0/60

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 201.845+/-0.042 χ^2/NDF : 225934.1/15

Right Out: 145.039+/-0.041 χ^2/NDF : 1375972.0/18

Left In: 203.056+/-0.044 χ^2/NDF : 264913.2/13

Left: 202.420+/-0.030 χ^2/NDF : 491242.3/29

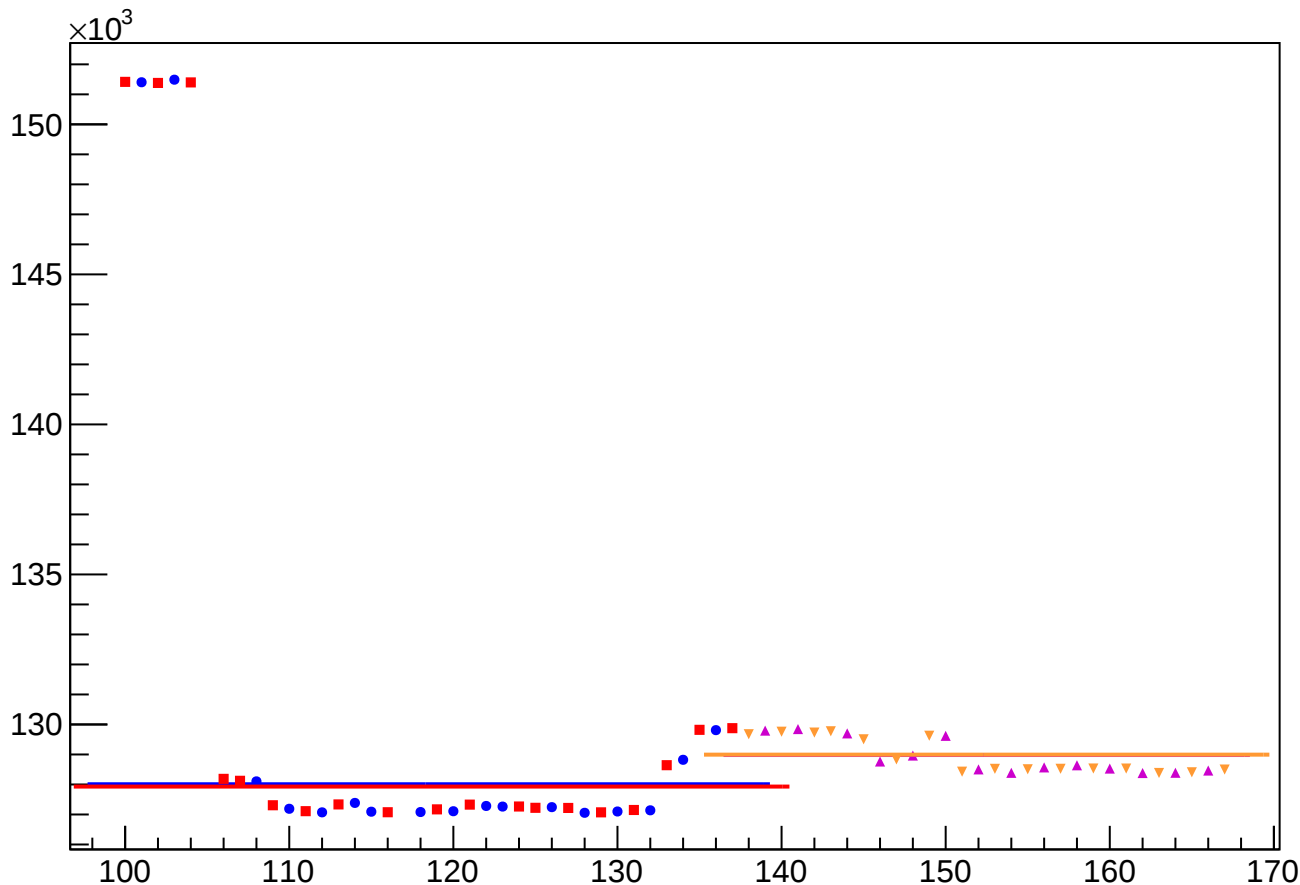
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 177.254+/-0.031 χ^2/NDF : 2205952.2/30

Out: 172.960+/-0.029 χ^2/NDF : 2534352.5/34

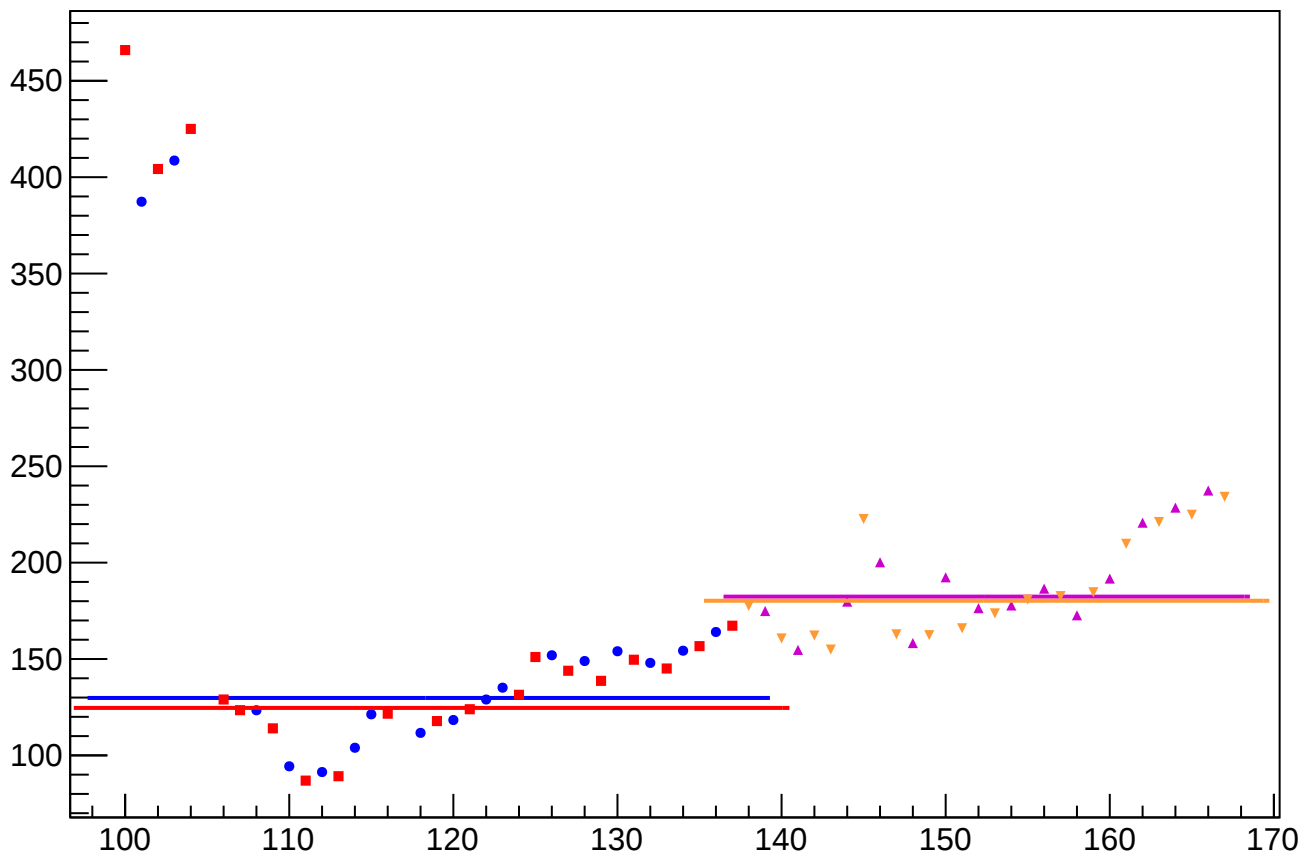
All: 174.978+/-0.021 χ^2/NDF : 4750324.8/65

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128994.150 $\pm$ 0.053 χ^2 /NDF: 117987903.7/15
 Right Out: 127930.136 $\pm$ 0.050 χ^2 /NDF: 3768176193.0/18
 Left In: 128981.722 $\pm$ 0.056 χ^2 /NDF: 103506954.1/13
 Left: 128988.282 $\pm$ 0.039 χ^2 /NDF: 221520786.4/29
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/30
 In: 128477.296 $\pm$ 0.039 χ^2 /NDF: 4579599837.6/30
 Out: 128434.860 $\pm$ 0.037 χ^2 /NDF: 4097738655.1/30
 All: 128454.721 $\pm$ 0.027 χ^2 /NDF: 867797019.1/60

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 180.233 $\pm$ 0.038 χ^2 /NDF: 387194.1/15

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: 181.241 $\pm$ 0.027 χ^2 /NDF: 664548.0/29

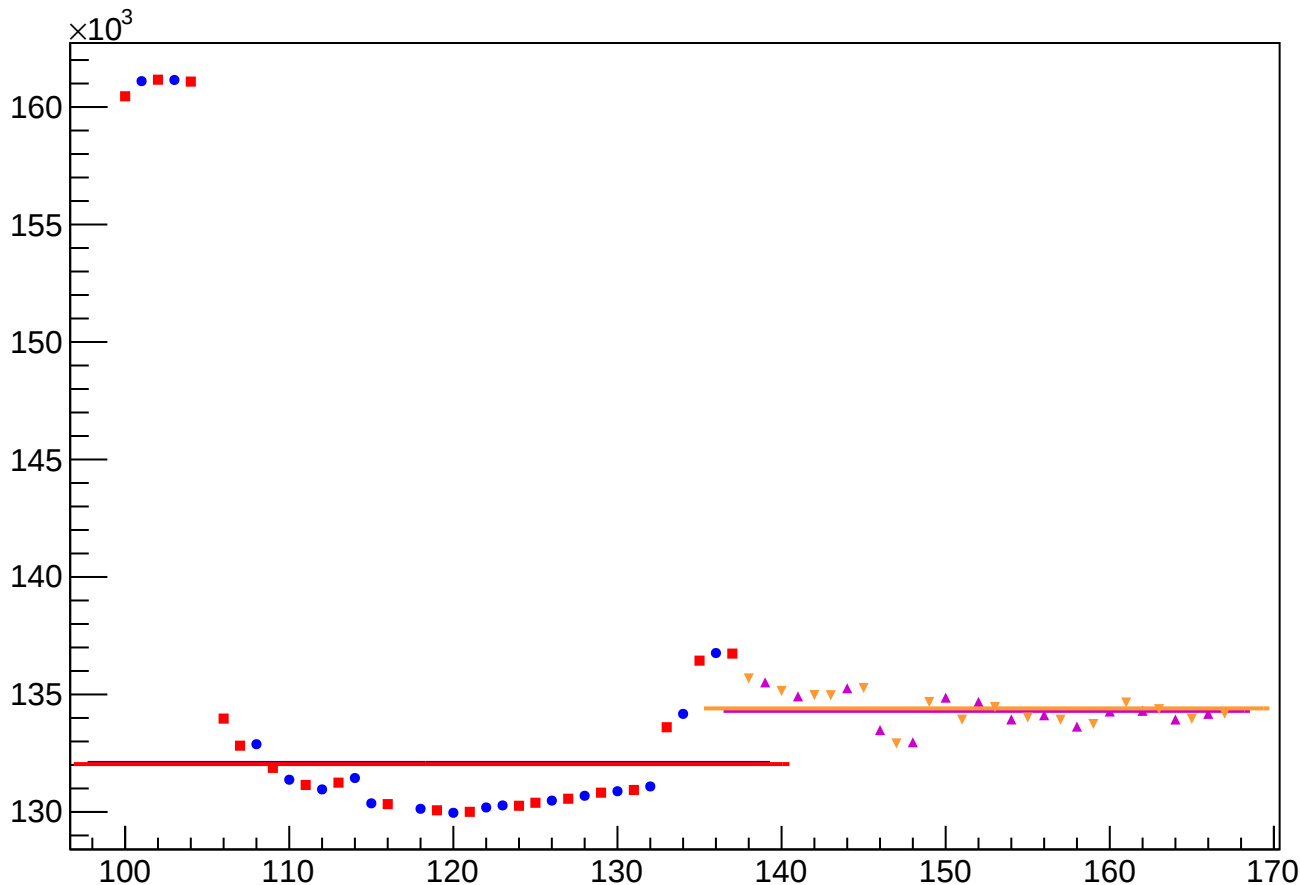
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 155.151 $\pm$ 0.028 χ^2 /NDF: 2671182.2/30

Out: 151.003 $\pm$ 0.026 χ^2 /NDF: 3074796.2/34

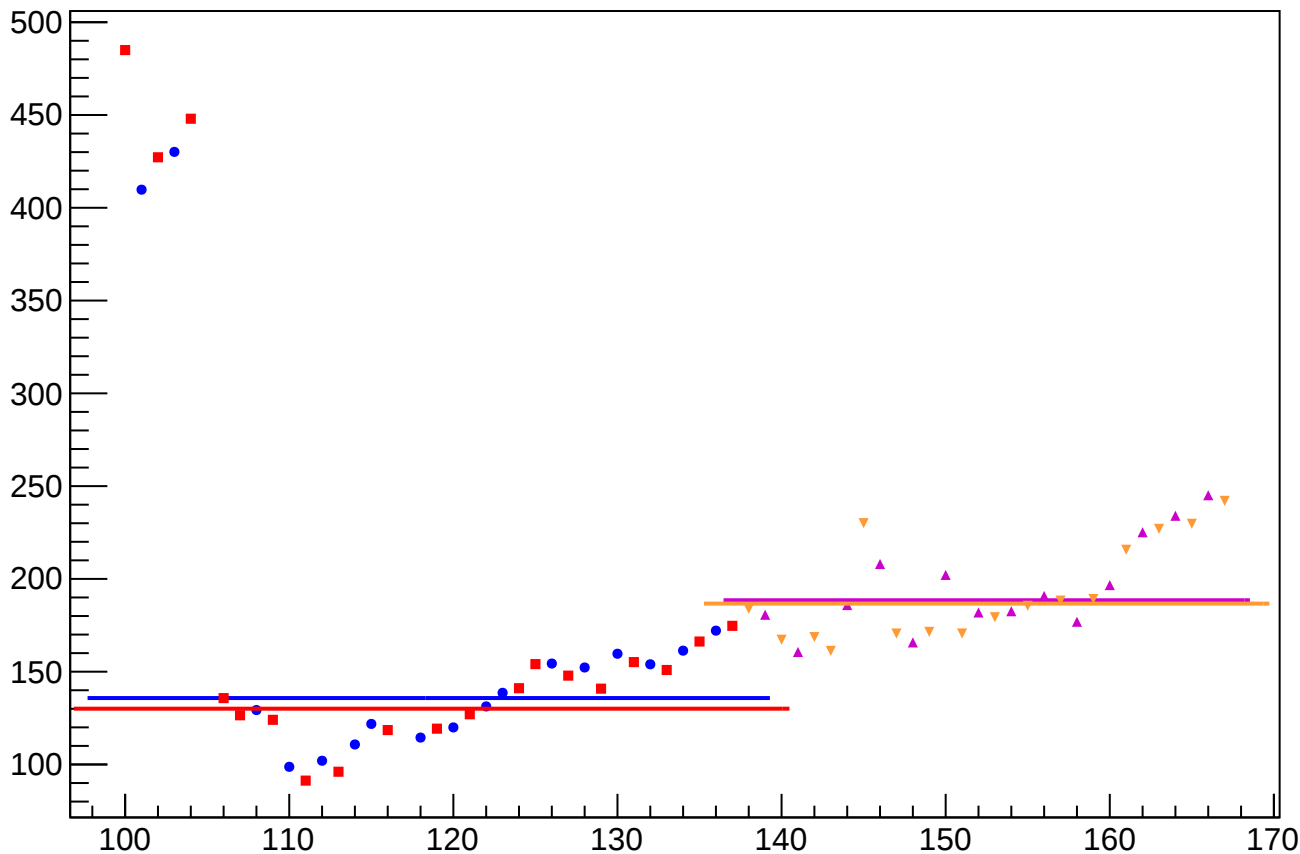
All: 152.944 $\pm$ 0.019 χ^2 /NDF: 5758052.7/65

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794+/-0.057	χ^2/NDF : 6733230928.7/16	Left: 134358.027+/-0.040	χ^2/NDF : 322445728.3/29
Left Out: 134407.521+/-0.055	χ^2/NDF : 163511715.5/15	Right: 132060.364+/-0.038	χ^2/NDF : 12615754245.0/15
Right Out: 132037.539+/-0.053	χ^2/NDF : 5882115872.9/18	In: 133167.371+/-0.040	χ^2/NDF : 7639939875.5/30
Left In: 134302.923+/-0.058	χ^2/NDF : 157217450.9/13	Out: 133169.896+/-0.038	χ^2/NDF : 7018196407.9/30
		All: 133168.714+/-0.028	χ^2/NDF : 146581383.0/138

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2 /NDF: 1441904.9/16

Left Out: 186.697 $\pm$ 0.039 χ^2 /NDF: 359472.4/15

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: 187.546 $\pm$ 0.028 χ^2 /NDF: 622226.4/29

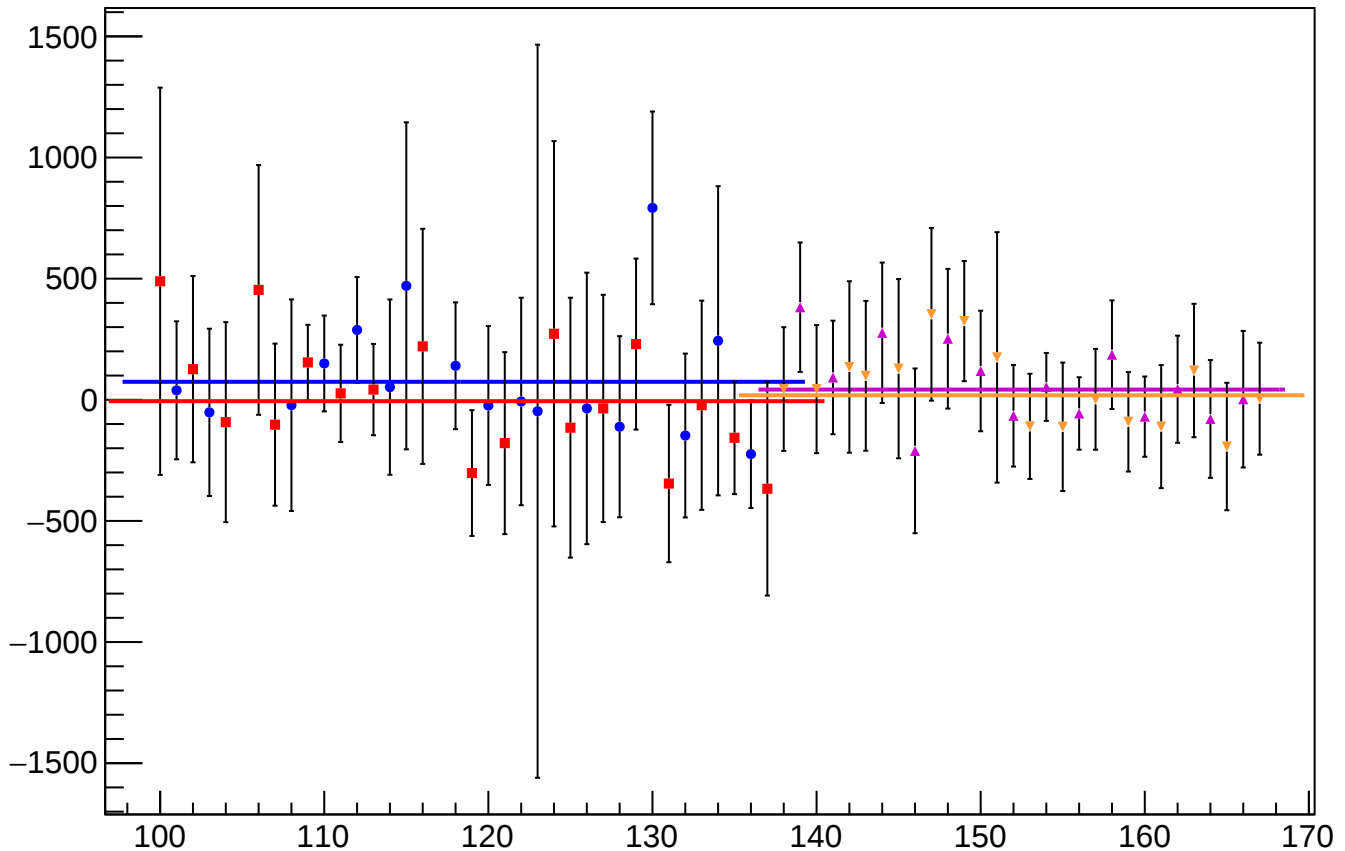
Right: 132.723 $\pm$ 0.027 χ^2 /NDF: 2956918.0/35

In: 161.490 $\pm$ 0.029 χ^2 /NDF: 2551119.5/30

Out: 157.126 $\pm$ 0.027 χ^2 /NDF: 2973970.8/34

All: 159.169 $\pm$ 0.020 χ^2 /NDF: 5537462.9/65

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 $\pm$ 79.018 χ^2/NDF : 7.7/16

Left Out: 18.603 $\pm$ 66.318 χ^2/NDF : 4.7/15

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: 32.093 $\pm$ 43.317 χ^2/NDF : 10.1/29

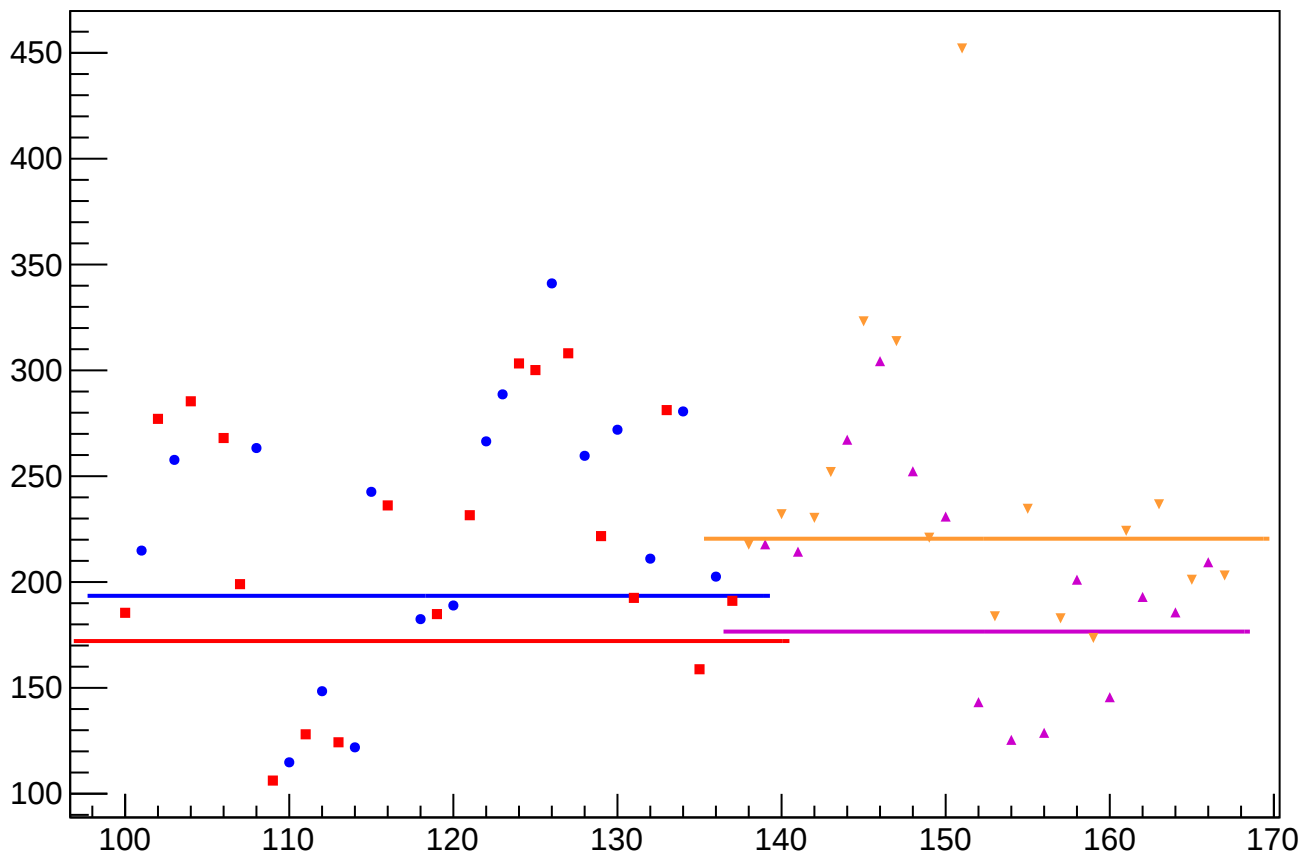
Right: 29.490 $\pm$ 52.426 χ^2/NDF : 15.4/35

In: 53.192 $\pm$ 46.338 χ^2/NDF : 13.1/30

Out: 7.101 $\pm$ 48.165 χ^2/NDF : 11.9/34

All: 31.037 $\pm$ 33.393 χ^2/NDF : 25.5/65

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488+/-0.056 χ^2/NDF : 1017195.7/16

Left Out: 220.470+/-0.047 χ^2/NDF : 981216.1/15

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: 195.312+/-0.031 χ^2/NDF : 2950028.6/29

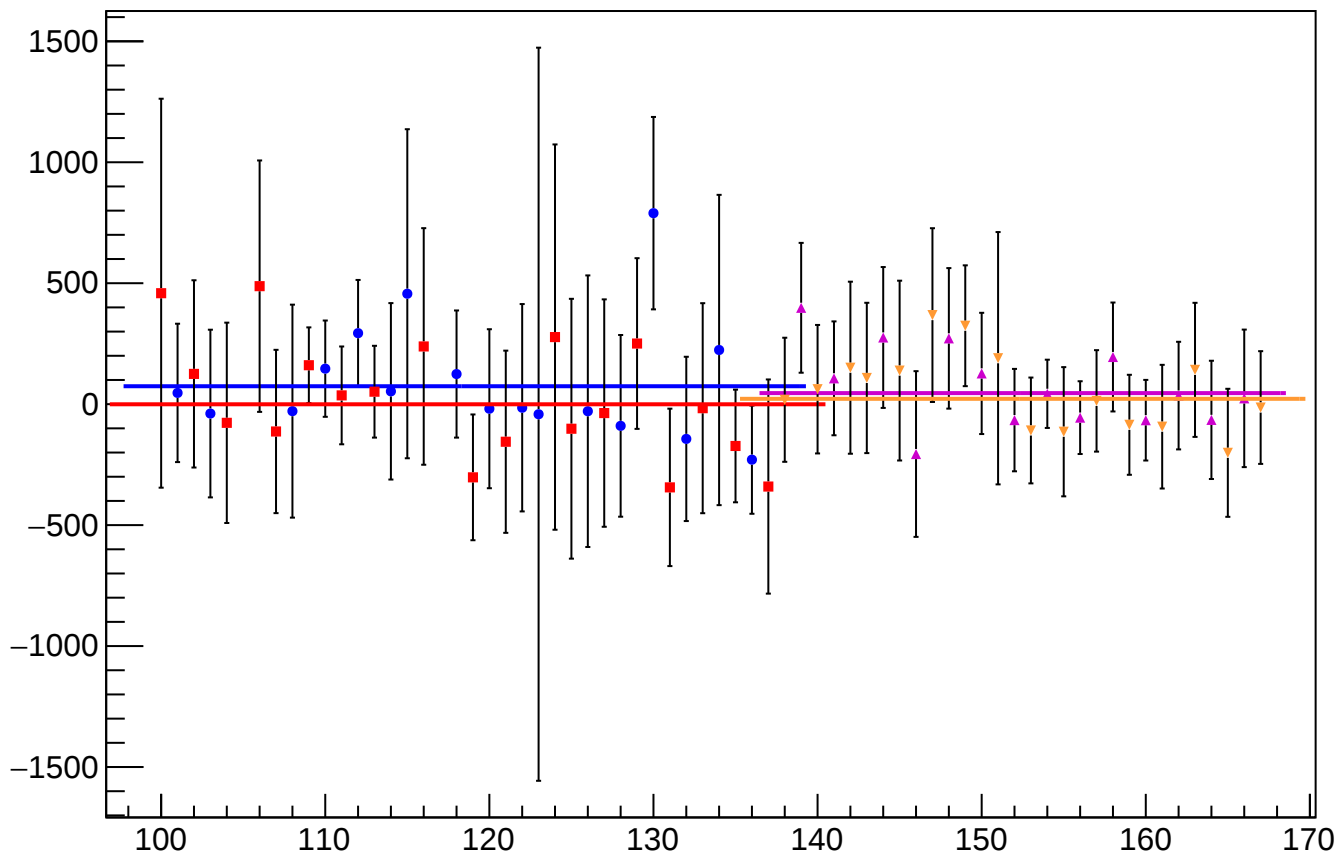
Right: 181.527+/-0.037 χ^2/NDF : 2678891.2/35

In: 182.402+/-0.033 χ^2/NDF : 2544007.9/30

Out: 197.625+/-0.034 χ^2/NDF : 3063333.2/34

All: 189.719+/-0.024 χ^2/NDF : 5711094.5/65

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2/NDF : 7.6/16

Left Out: 22.087 $\pm$ 66.750 χ^2/NDF : 4.8/15

Right Out: -0.503 $\pm$ 70.437 χ^2/NDF : 7.3/18

Left In: 45.717 $\pm$ 57.559 χ^2/NDF : 5.5/13

Left: 35.639 $\pm$ 43.591 χ^2/NDF : 10.4/29

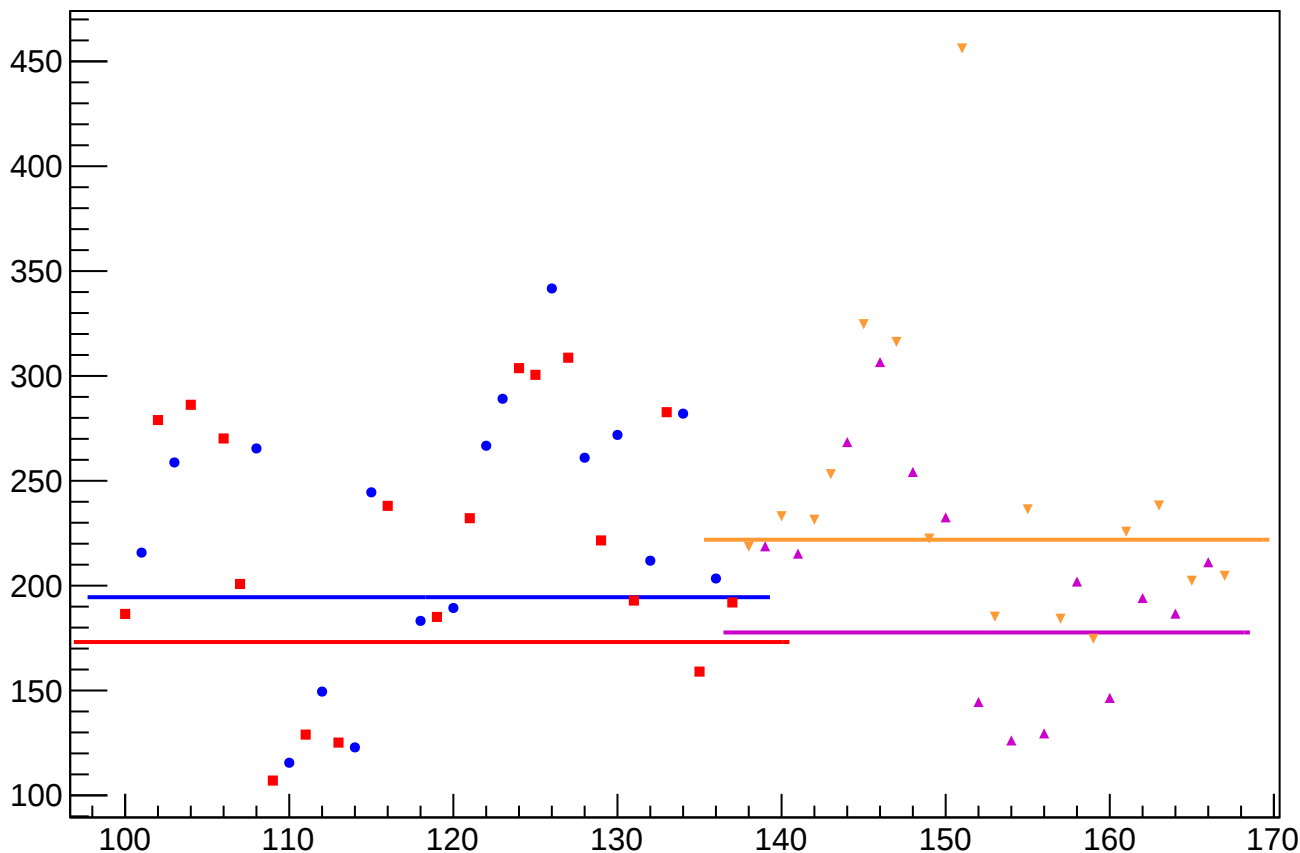
Right: 32.349 $\pm$ 52.693 χ^2/NDF : 15.4/35

In: 55.493 $\pm$ 46.603 χ^2/NDF : 13.1/30

Out: 11.399 $\pm$ 48.450 χ^2/NDF : 12.2/34

All: 34.303 $\pm$ 33.587 χ^2/NDF : 25.8/65

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496+/-0.056 χ^2/NDF : 1008514.7/16

Left Out: 221.905+/-0.047 χ^2/NDF : 980356.4/15

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: 196.537+/-0.031 χ^2/NDF : 2949516.8/29

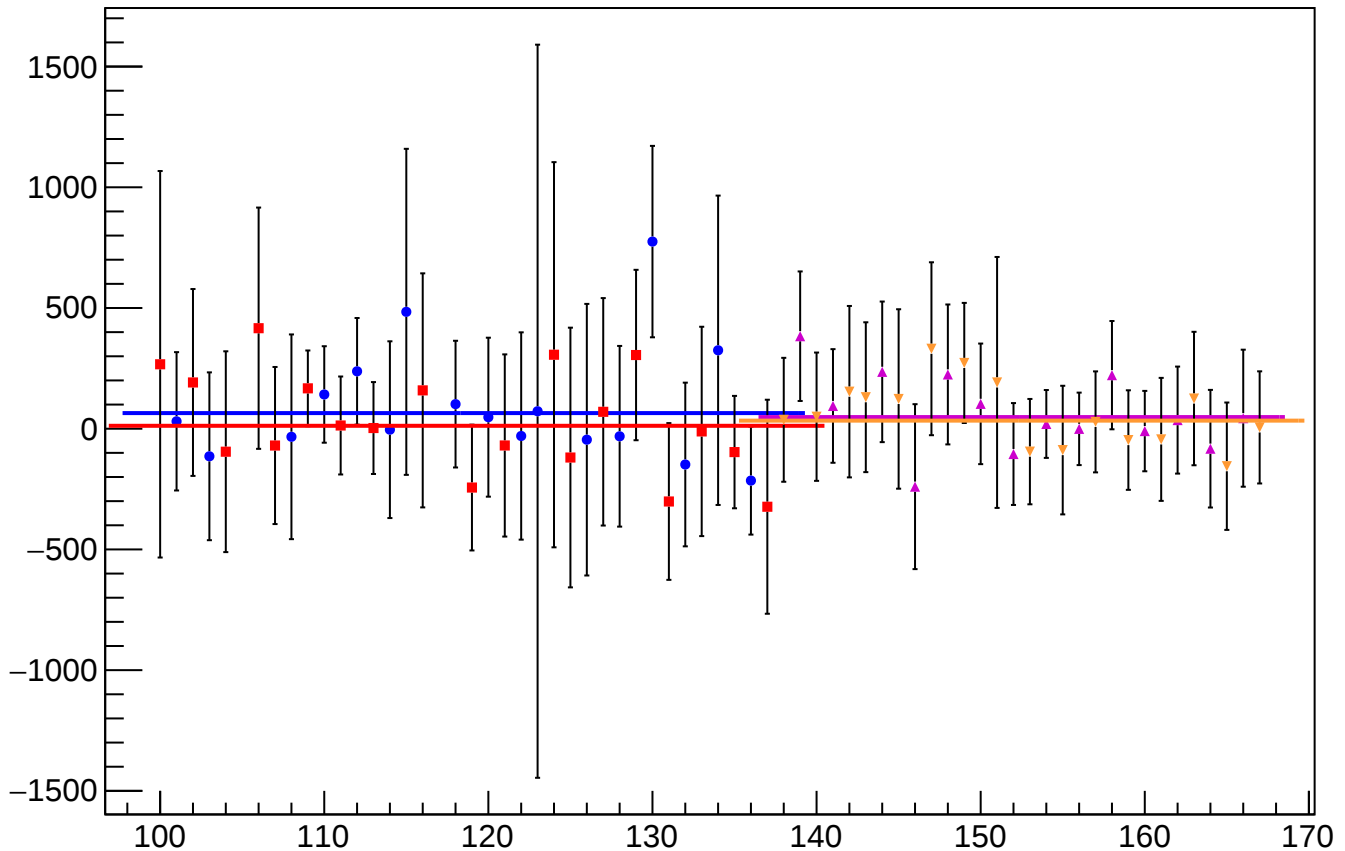
Right: 182.529+/-0.037 χ^2/NDF : 2657073.5/35

In: 183.469+/-0.033 χ^2/NDF : 2532866.6/30

Out: 198.818+/-0.034 χ^2/NDF : 3053378.5/34

All: 190.845+/-0.024 χ^2/NDF : 5690511.3/65

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 33.487+/-66.597 χ^2/NDF : 3.4/15

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: 41.936+/-43.487 χ^2/NDF : 8.3/29

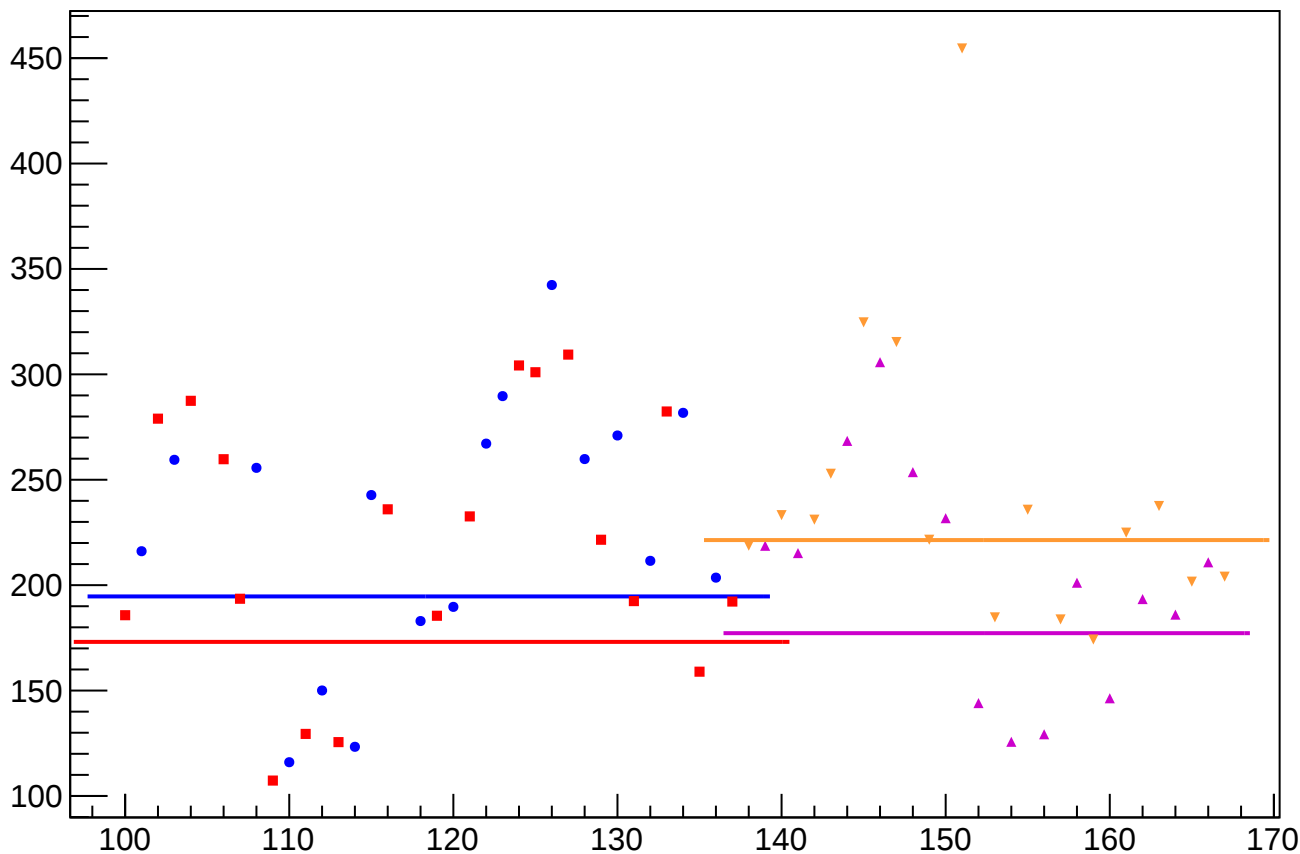
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 53.888+/-46.527 χ^2/NDF : 11.9/30

Out: 23.378+/-48.367 χ^2/NDF : 9.3/34

All: 39.224+/-33.531 χ^2/NDF : 21.4/65

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 221.384 $\pm$ 0.047 χ^2 /NDF: 982384.7/15

Right Out: 173.089 $\pm$ 0.050 χ^2 /NDF: 1544540.9/18

Left In: 177.225 $\pm$ 0.041 χ^2 /NDF: 1469000.3/13

Left: 196.054 $\pm$ 0.031 χ^2 /NDF: 2955798.7/29

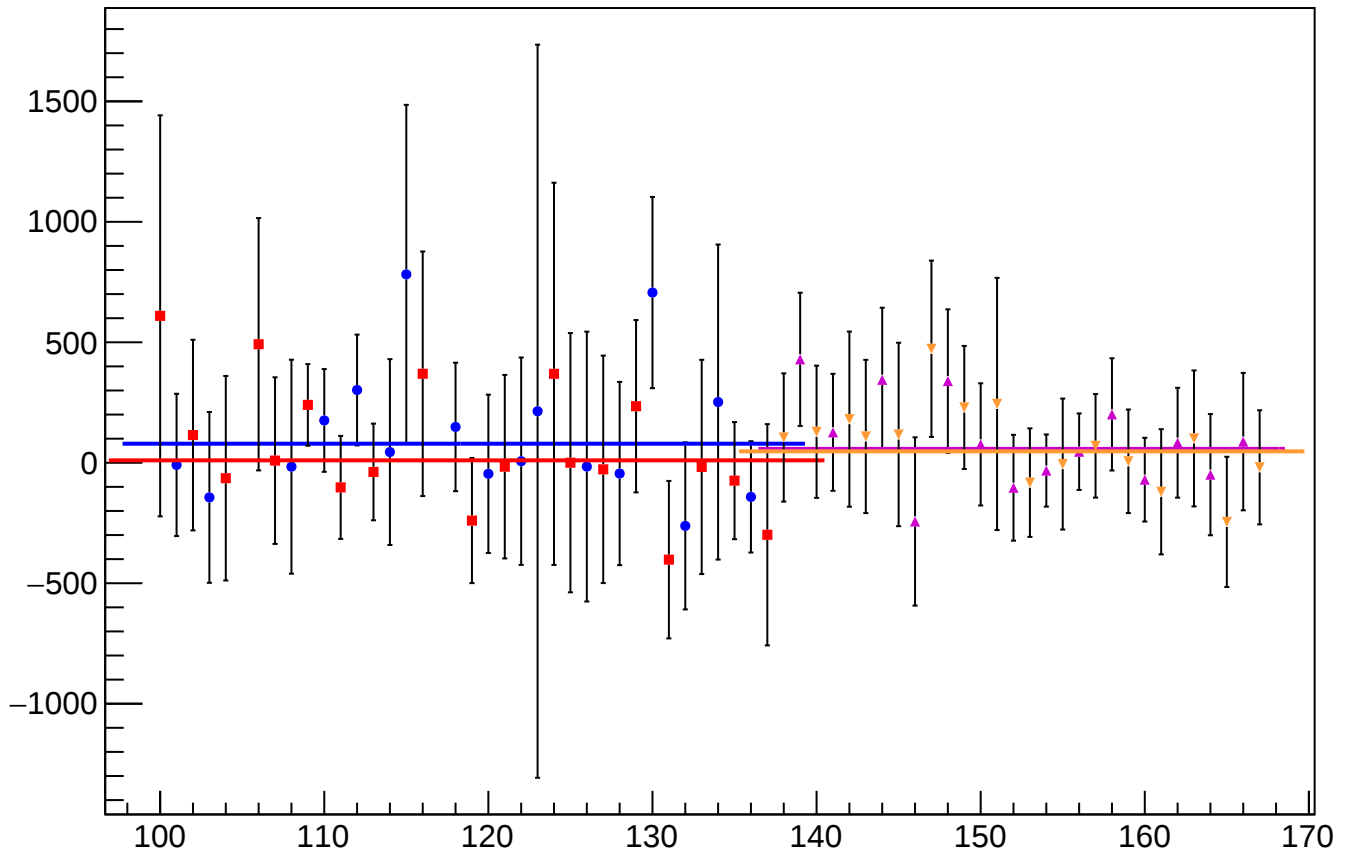
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 183.209 $\pm$ 0.033 χ^2 /NDF: 2519061.9/30

Out: 198.563 $\pm$ 0.034 χ^2 /NDF: 3023945.7/34

All: 190.588 $\pm$ 0.024 χ^2 /NDF: 5647685.6/65

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128+/-81.874 χ^2/NDF : 7.5/16

Left Out: 47.480+/-68.420 χ^2/NDF : 4.5/15

Right Out: 9.982+/-73.310 χ^2/NDF : 7.9/18

Left In: 57.600+/-59.739 χ^2/NDF : 6.5/13

Left: 53.222+/-45.000 χ^2/NDF : 11.0/29

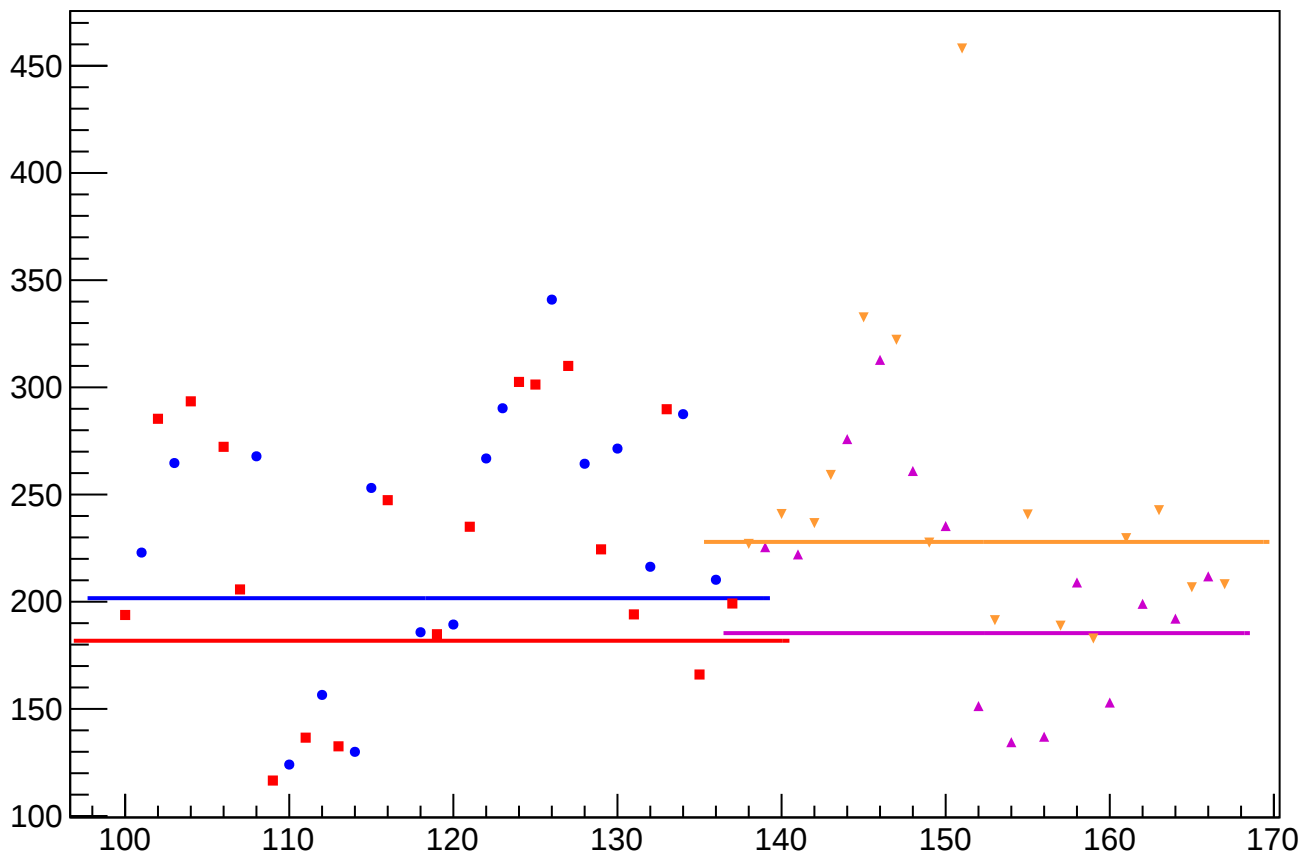
Right: 40.751+/-54.616 χ^2/NDF : 15.8/35

In: 65.080+/-48.259 χ^2/NDF : 14.0/30

Out: 30.023+/-50.020 χ^2/NDF : 12.5/34

All: 48.179+/-34.730 χ^2/NDF : 26.8/65

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654+/-0.058 χ^2/NDF : 883179.7/16

Left Out: 227.905+/-0.048 χ^2/NDF : 938803.6/15

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: 203.762+/-0.032 χ^2/NDF : 2701859.9/29

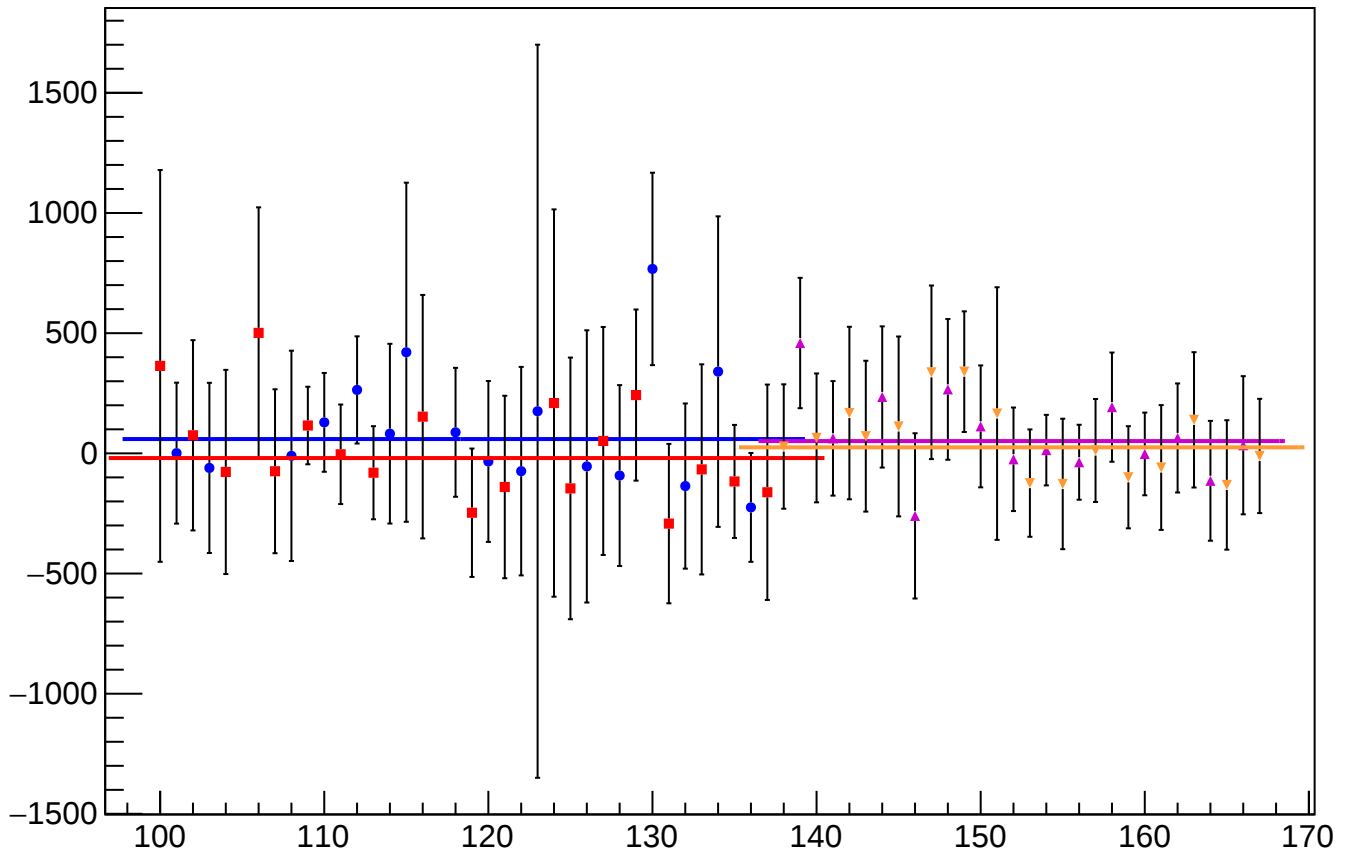
Right: 190.633+/-0.039 χ^2/NDF : 2325921.8/35

In: 191.019+/-0.034 χ^2/NDF : 2259072.8/30

Out: 206.440+/-0.035 χ^2/NDF : 2739085.0/34

All: 198.453+/-0.025 χ^2/NDF : 5096617.3/65

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 25.110 $\pm$ 67.798 χ^2 /NDF:4.4/15

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 51.134 $\pm$ 58.883 χ^2 /NDF:5.5/13

Left: 39.944 $\pm$ 44.457 χ^2 /NDF: 10.0/29

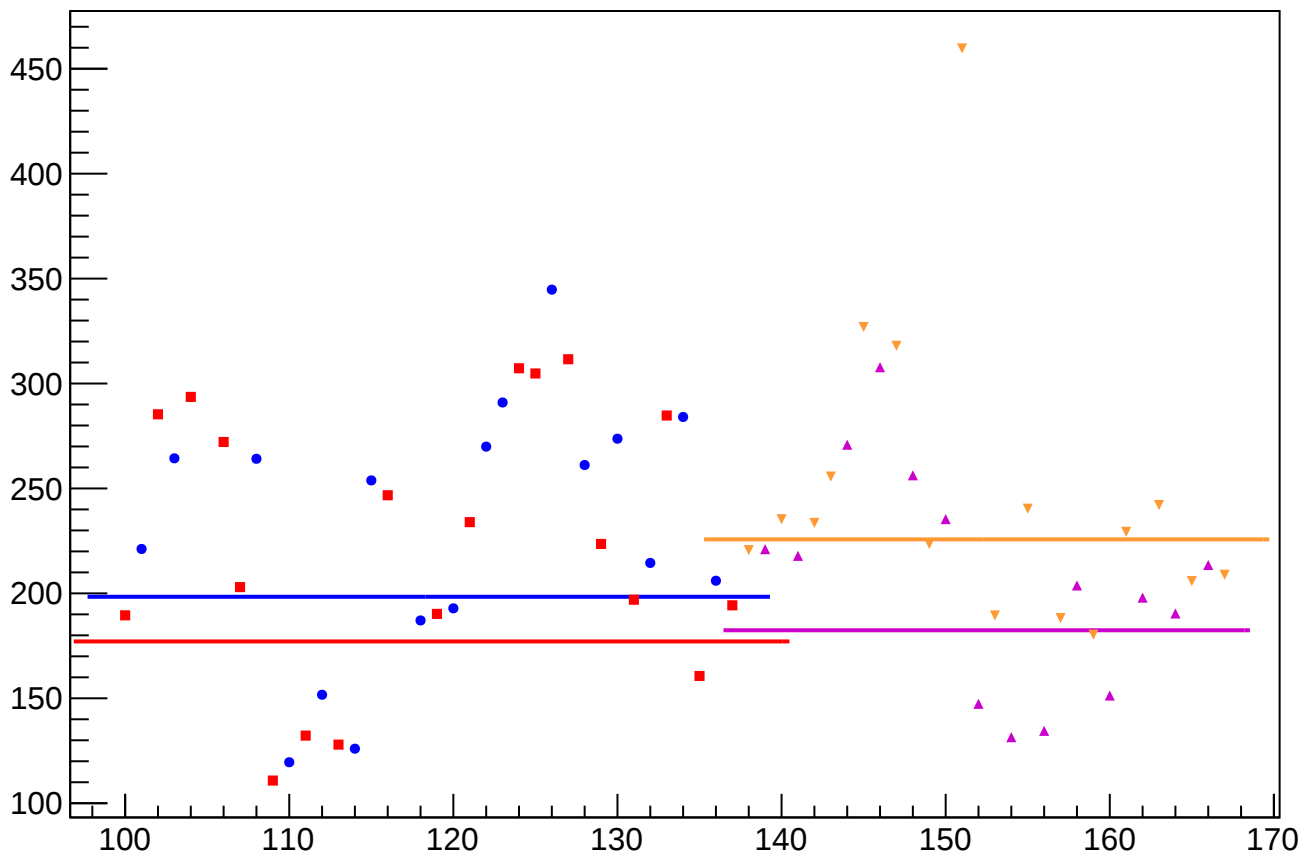
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 54.034 $\pm$ 47.589 χ^2 /NDF:12.5/30

Out: 4.084 $\pm$ 49.316 χ^2 /NDF:9.3/34

All: 29.949 $\pm$ 34.245 χ^2 /NDF: 22.4/65

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 225.734+/-0.048 χ^2/NDF : 934967.9/15

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 182.422+/-0.042 χ^2/NDF : 1347491.9/13

Left: 201.045+/-0.031 χ^2/NDF : 2747716.7/29

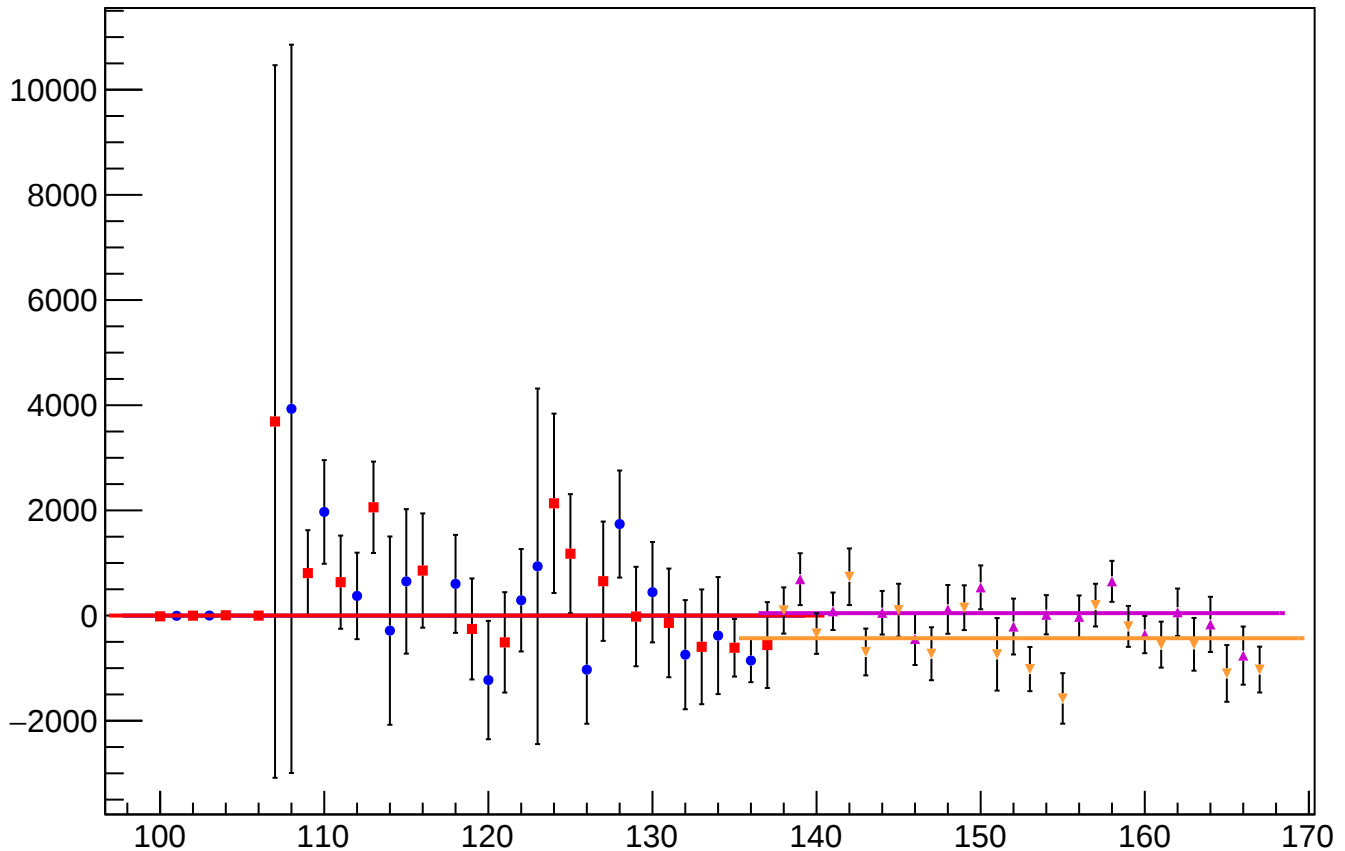
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 187.956+/-0.034 χ^2/NDF : 2362096.6/30

Out: 202.830+/-0.035 χ^2/NDF : 2944427.0/34

All: 195.128+/-0.024 χ^2/NDF : 5400731.7/65

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -430.610 ± 114.346 χ^2/NDF : 24.0/15

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: -193.917 ± 81.119 χ^2/NDF : 43.0/29

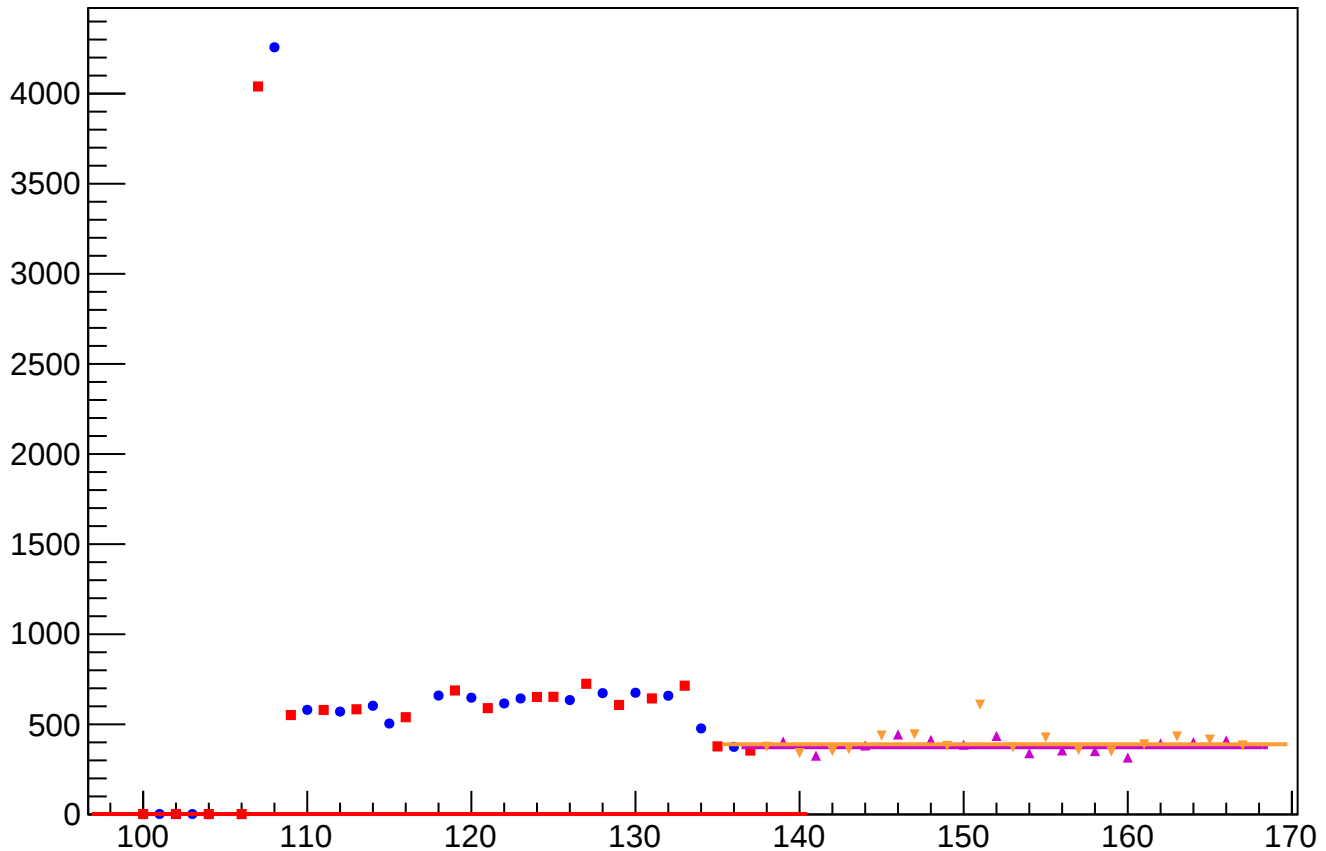
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.511 ± 2.251 χ^2/NDF : 27.5/30

Out: 0.580 ± 2.111 χ^2/NDF : 57.5/34

All: -0.399 ± 1.540 χ^2/NDF : 85.5/65

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 389.364+/-0.081 χ^2/NDF : 365126.1/15

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: 381.268+/-0.057 χ^2/NDF : 613562.1/29

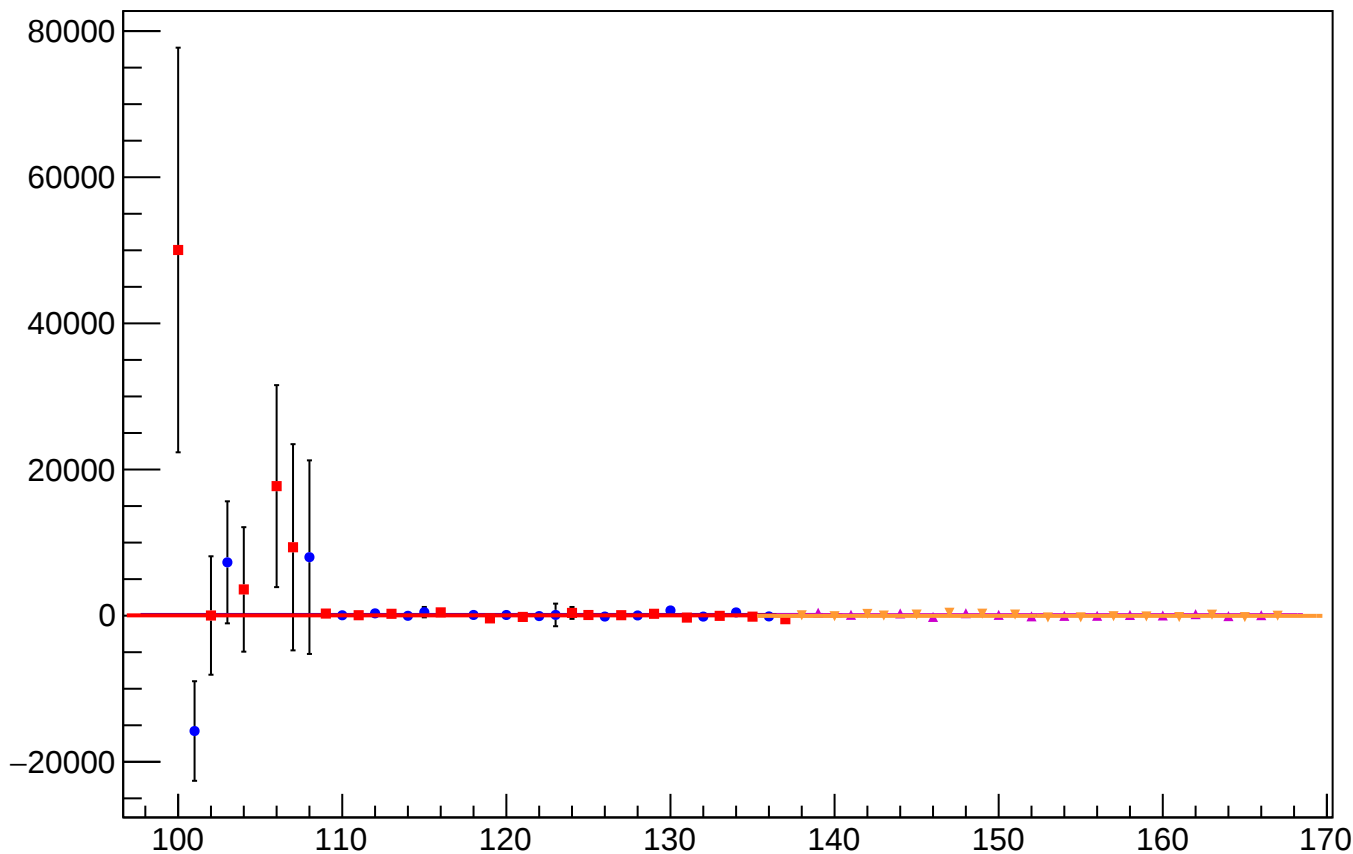
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.598+/-0.002 χ^2/NDF : 31804802.2/30

Out: 2.569+/-0.001 χ^2/NDF : 34405106.1/34

All: 2.583+/-0.001 χ^2/NDF : 66210095.2/65

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -26.041+/-70.413 χ^2/NDF : 6.0/15

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: 29.097+/-46.761 χ^2/NDF : 12.2/29

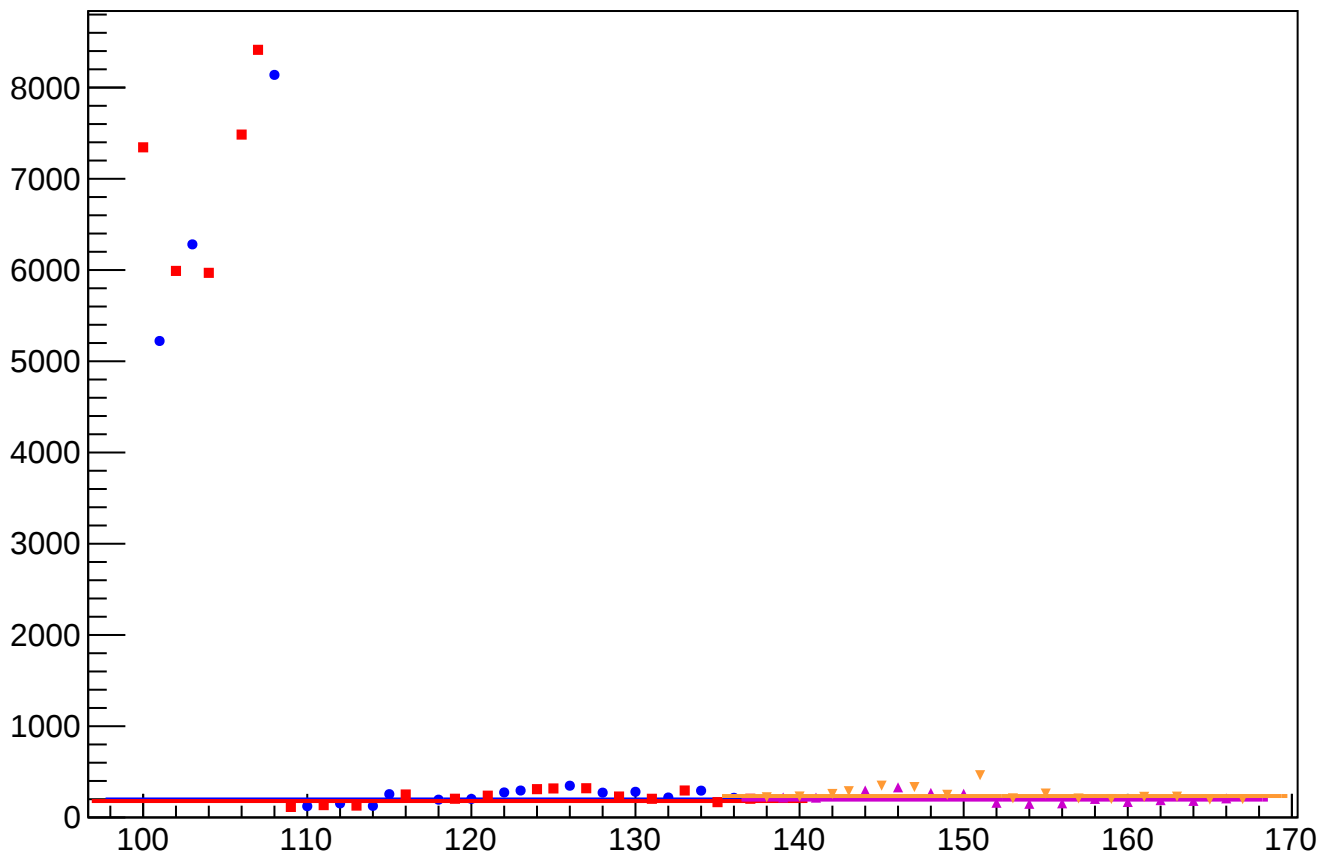
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 80.974+/-51.519 χ^2/NDF : 17.0/30

Out: 1.969+/-54.093 χ^2/NDF : 20.2/34

All: 43.395+/-37.306 χ^2/NDF : 38.4/65

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 234.857+/-0.050 χ^2/NDF :934582.7/15

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: 212.900+/-0.033 χ^2/NDF : 2345528.6/29

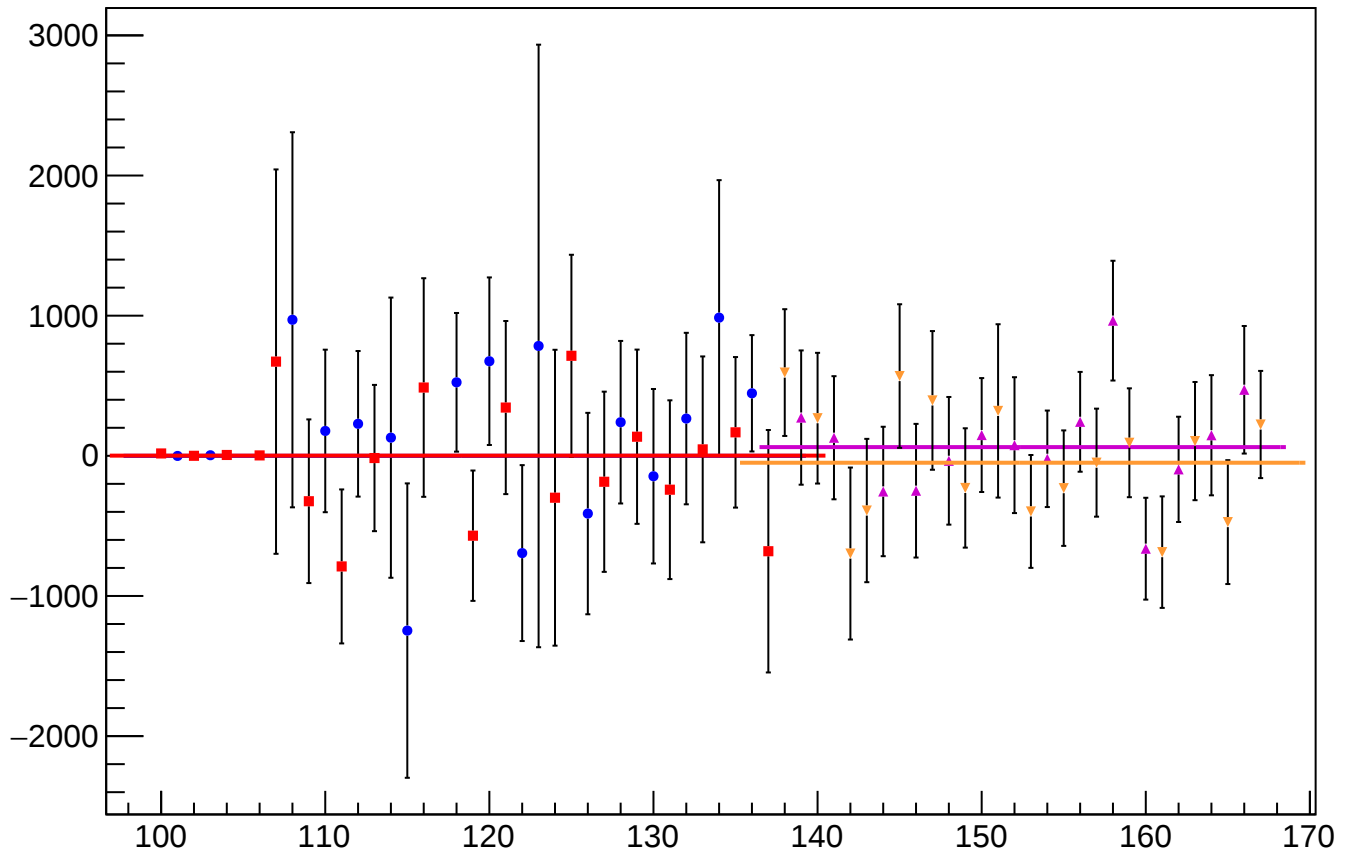
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.061+/-0.036 χ^2/NDF :4756997.9/30

Out: 212.354+/-0.038 χ^2/NDF :5754183.8/34

All: 203.811+/-0.026 χ^2/NDF : 10606329.9/65

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 $\chi^2/\text{NDF}: 9.7/16$

Left Out: -49.294 ± 110.899 $\chi^2/\text{NDF}: 12.1/15$

Right Out: 1.323 ± 1.623 $\chi^2/\text{NDF}: 9.6/18$

Left In: 62.195 ± 111.462 $\chi^2/\text{NDF}: 11.0/13$

Left: 6.168 ± 78.616 $\chi^2/\text{NDF}: 23.5/29$

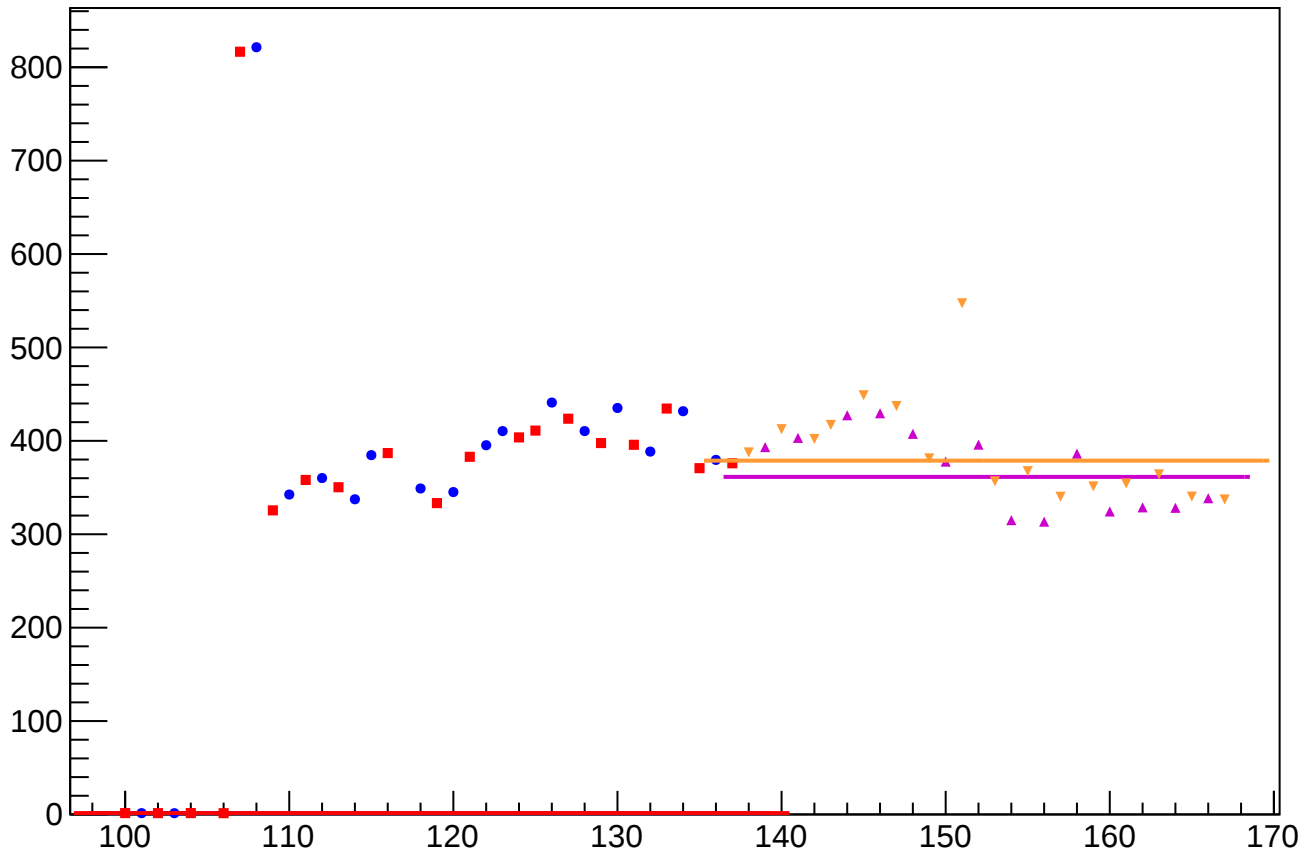
Right: 0.642 ± 1.186 $\chi^2/\text{NDF}: 19.7/35$

In: -0.123 ± 1.736 $\chi^2/\text{NDF}: 21.0/30$

Out: 1.313 ± 1.622 $\chi^2/\text{NDF}: 21.9/34$

All: 0.644 ± 1.185 $\chi^2/\text{NDF}: 43.3/65$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 378.804+/-0.078 χ^2/NDF : 325508.4/15

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 361.407+/-0.079 χ^2/NDF : 274515.4/13

Left: 370.150+/-0.056 χ^2/NDF : 624508.1/29

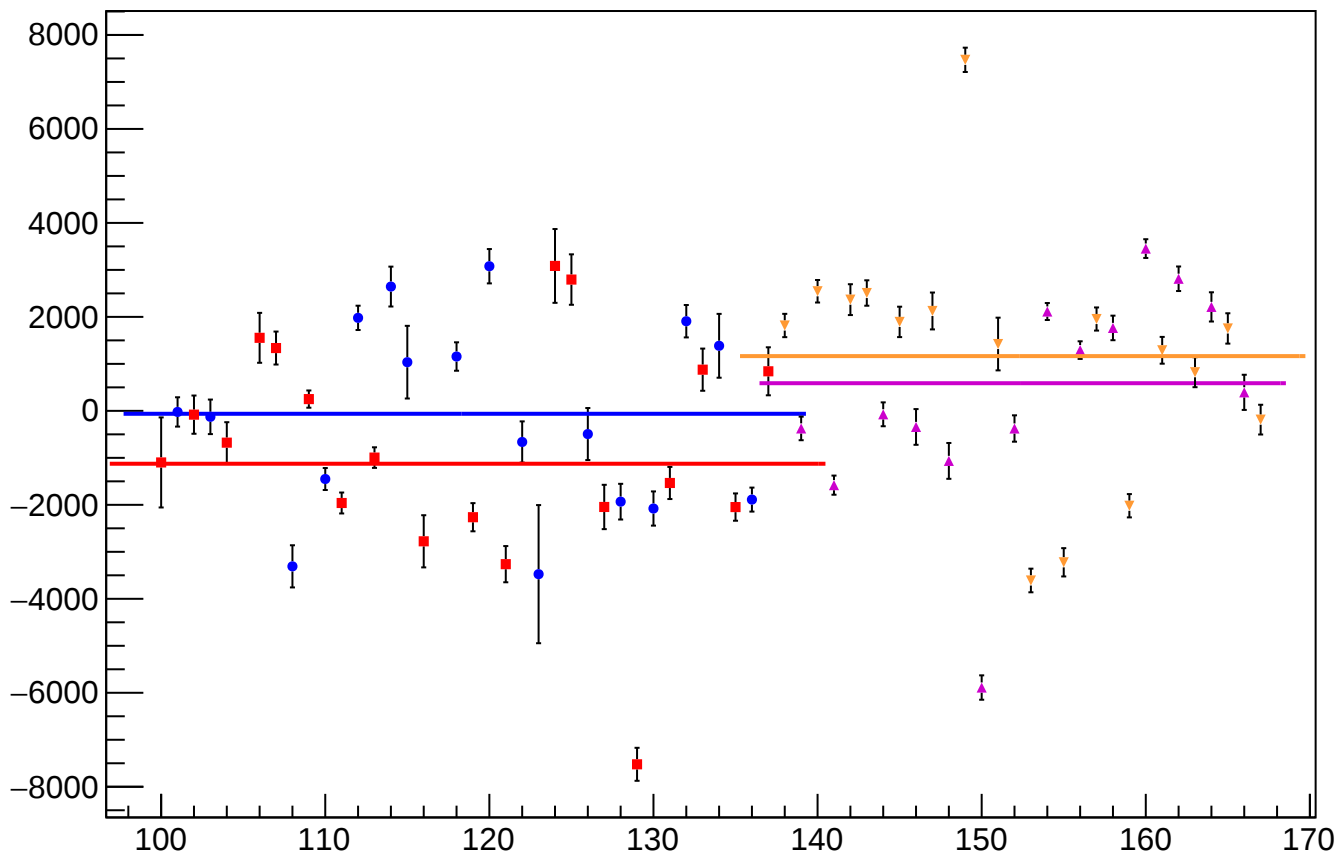
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.540+/-0.001 χ^2/NDF : 32085222.2/30

Out: 1.532+/-0.001 χ^2/NDF : 34357509.9/34

All: 1.536+/-0.001 χ^2/NDF : 66442756.9/65

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 χ^2/NDF : 433.9/16

Left Out: 1165.193 ± 72.149 χ^2/NDF : 1454.2/15

Right Out: -1125.437 ± 78.370 χ^2/NDF : 671.2/18

Left In: 588.405 ± 66.240 χ^2/NDF : 1207.0/13

Left: 852.216 ± 48.794 χ^2/NDF : 2695.9/29

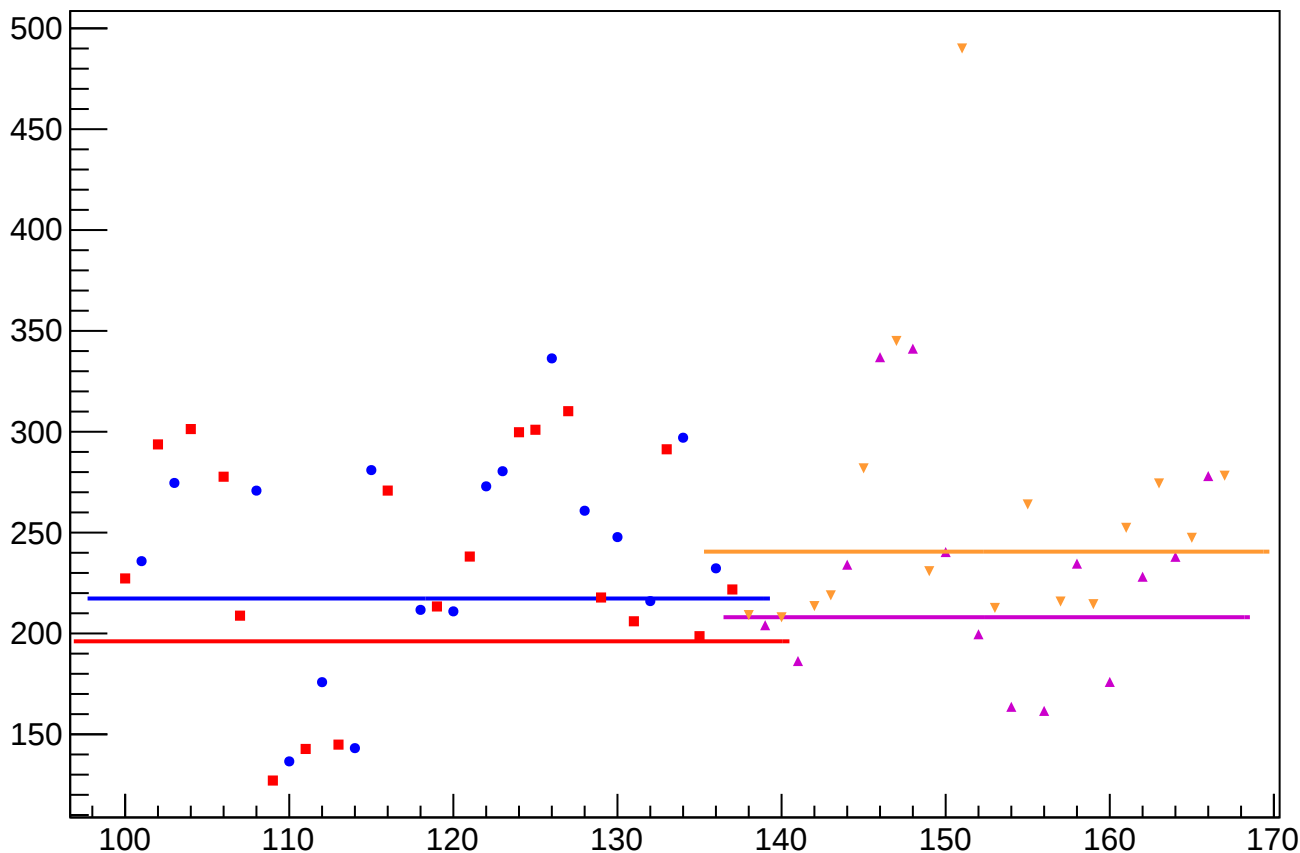
Right: -651.694 ± 58.355 χ^2/NDF : 1187.1/35

In: 351.134 ± 52.797 χ^2/NDF : 1676.1/30

Out: 114.383 ± 53.080 χ^2/NDF : 2587.8/34

All: 233.392 ± 37.433 χ^2/NDF : 4273.9/65

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330+/-0.062 χ^2/NDF : 652722.5/16

Left Out: 240.562+/-0.051 χ^2/NDF : 802029.0/15

Right Out: 196.105+/-0.055 χ^2/NDF : 1190733.6/18

Left In: 208.056+/-0.047 χ^2/NDF : 967127.1/13

Left: 222.923+/-0.035 χ^2/NDF : 1989455.9/29

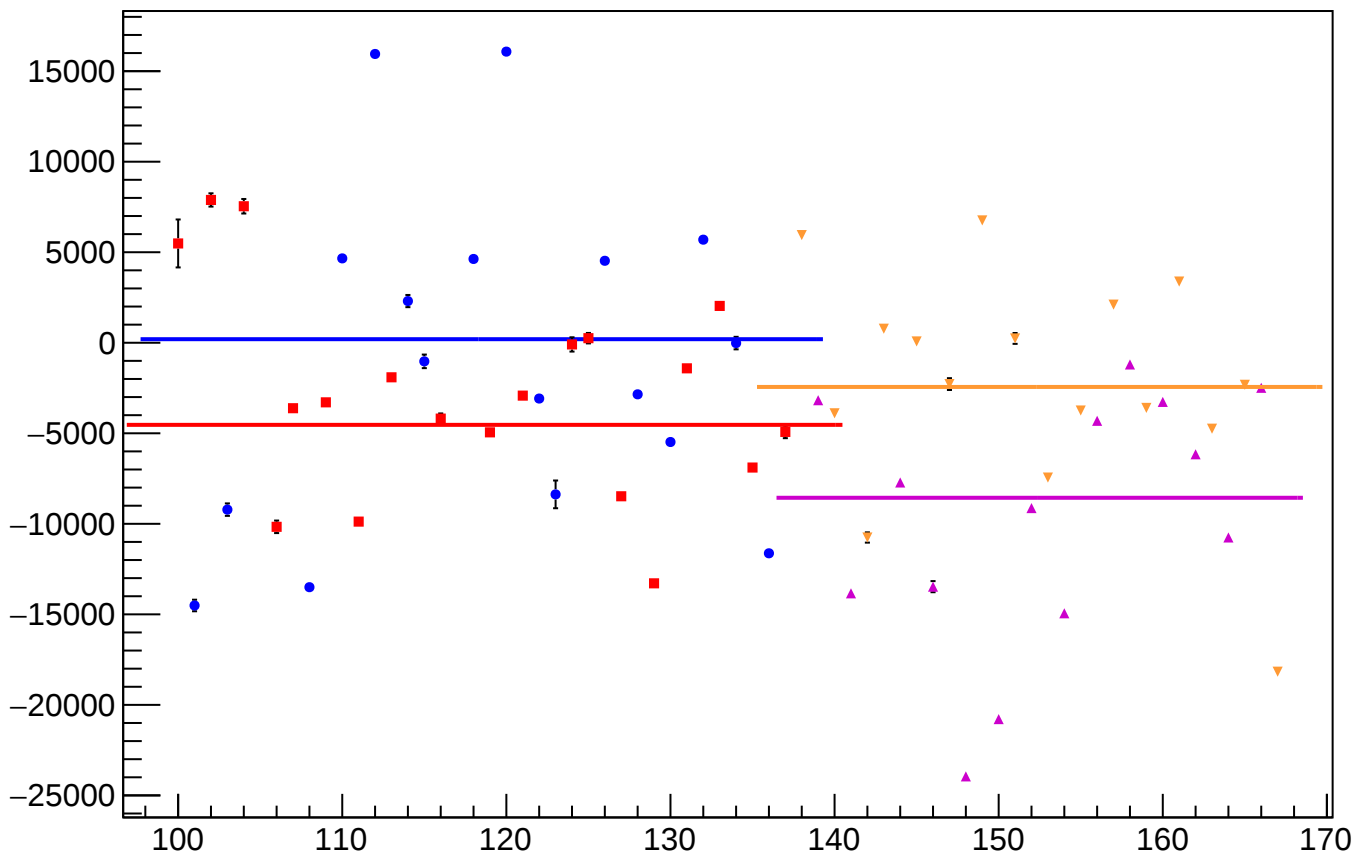
Right: 205.562+/-0.041 χ^2/NDF : 1908816.5/35

In: 211.438+/-0.037 χ^2/NDF : 1634149.0/30

Out: 220.168+/-0.038 χ^2/NDF : 2341115.6/34

All: 215.780+/-0.026 χ^2/NDF : 4002459.0/65

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -2440.246+/-50.525 χ^2/NDF :13671.5/15

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: -5325.926+/-36.734 χ^2/NDF : 35347.4/29

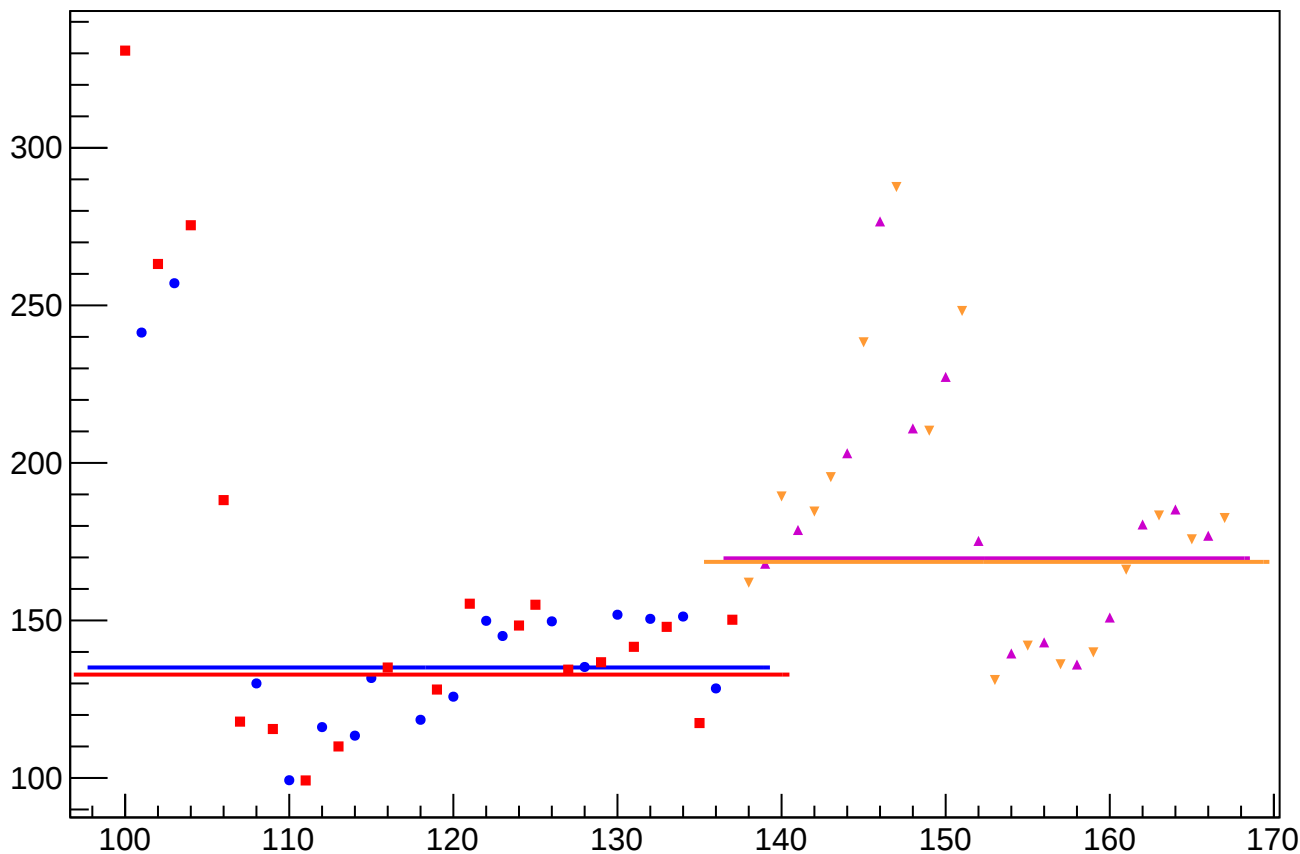
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4287.189+/-38.282 χ^2/NDF :58493.8/30

Out: -3447.859+/-36.392 χ^2/NDF :21975.3/34

All: -3846.298+/-26.376 χ^2/NDF : 80721.6/65

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 168.591 $\pm$ 0.036 χ^2 /NDF: 1012860.5/15

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 169.710 $\pm$ 0.038 χ^2 /NDF: 731116.7/13

Left: 169.118 $\pm$ 0.026 χ^2 /NDF: 1744440.1/29

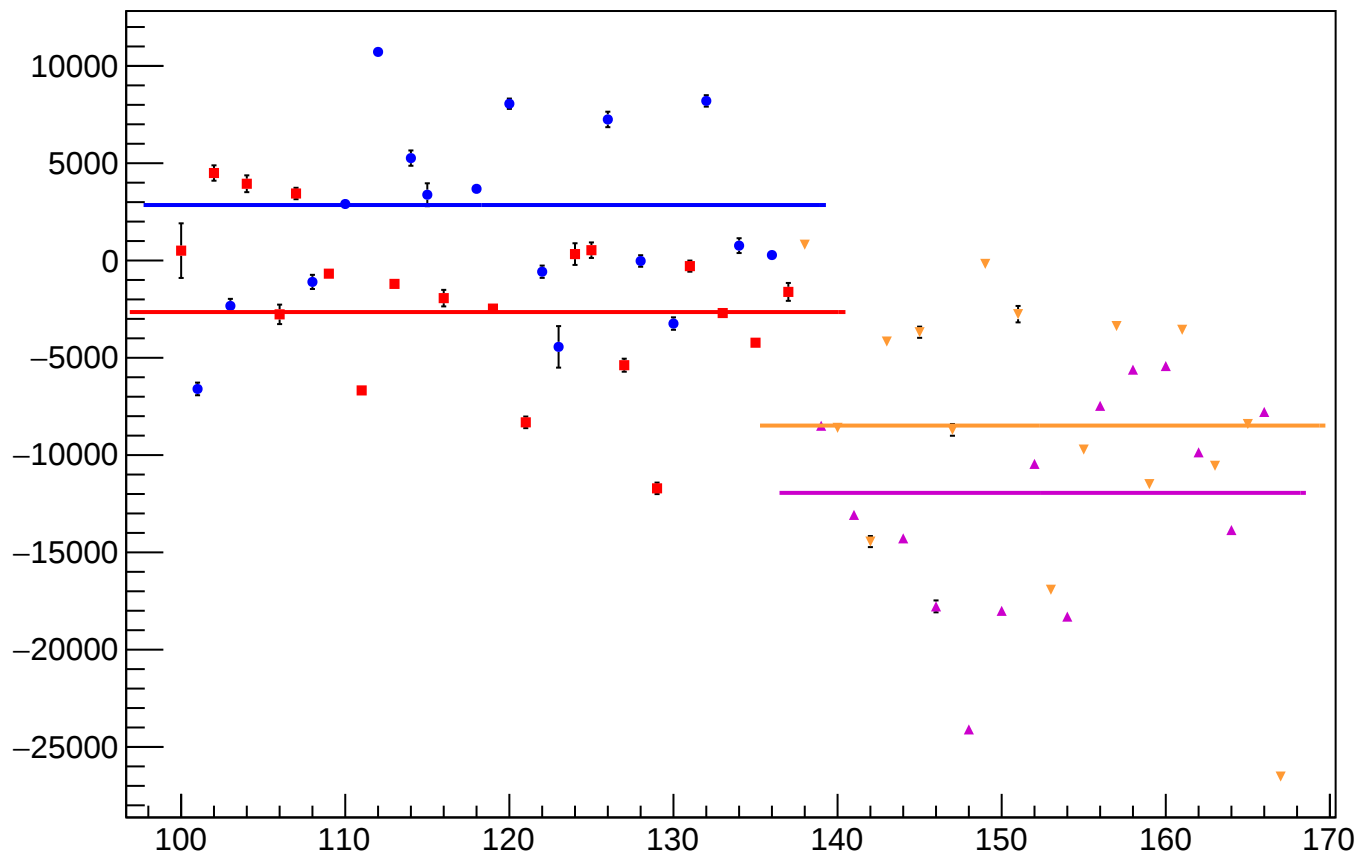
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 152.806 $\pm$ 0.027 χ^2 /NDF: 1798947.3/30

Out: 151.376 $\pm$ 0.026 χ^2 /NDF: 2326543.1/34

All: 152.055 $\pm$ 0.019 χ^2 /NDF: 4126956.1/65

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -8482.959+/-57.447 χ^2/NDF :15098.2/15

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: -10327.381+/-39.250 χ^2/NDF : 26731.7/29

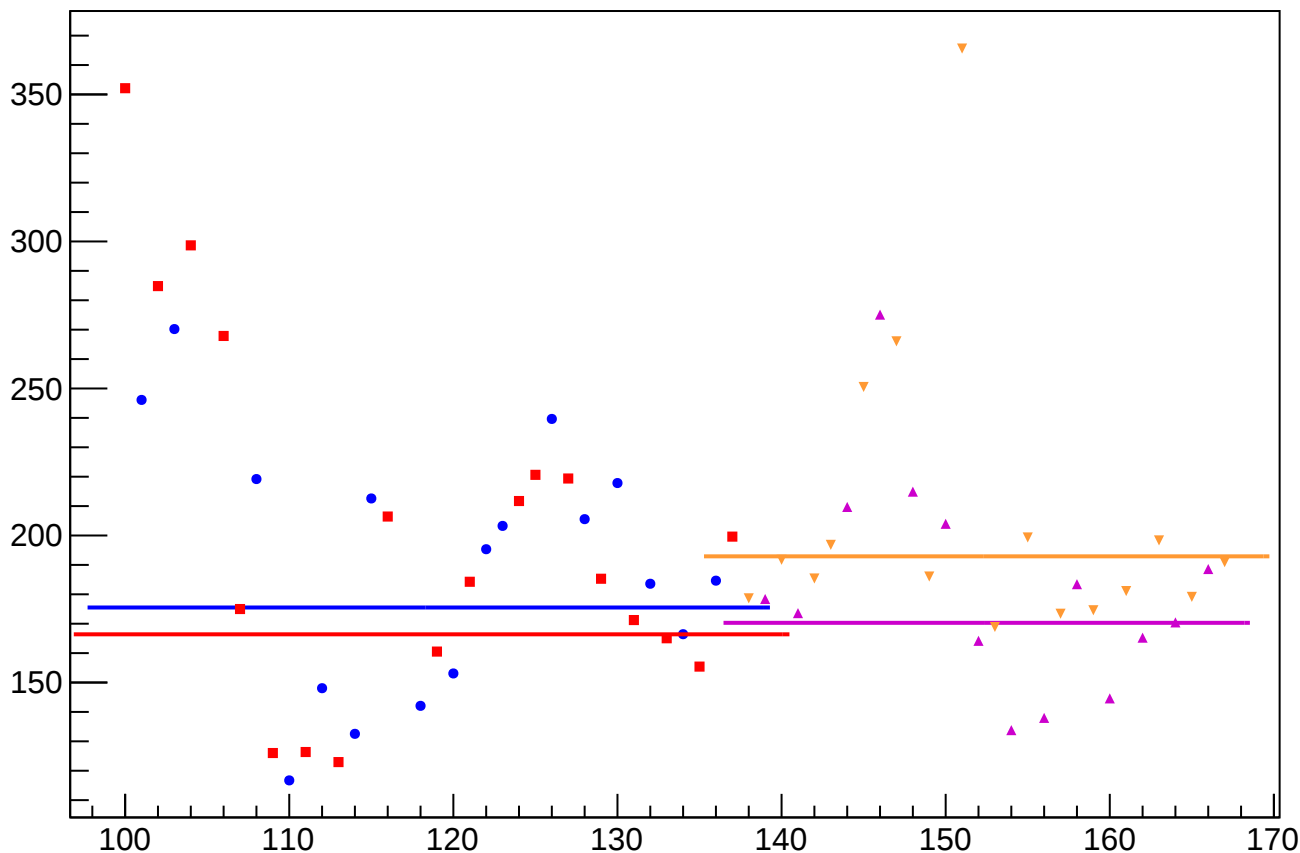
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6528.512+/-42.801 χ^2/NDF :41597.6/30

Out: -5956.617+/-43.255 χ^2/NDF :22739.8/34

All: -6245.582+/-30.424 χ^2/NDF : 64425.7/65

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.912+/-0.041 χ^2/NDF : 628067.8/15

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: 180.855+/-0.028 χ^2/NDF : 1479569.1/29

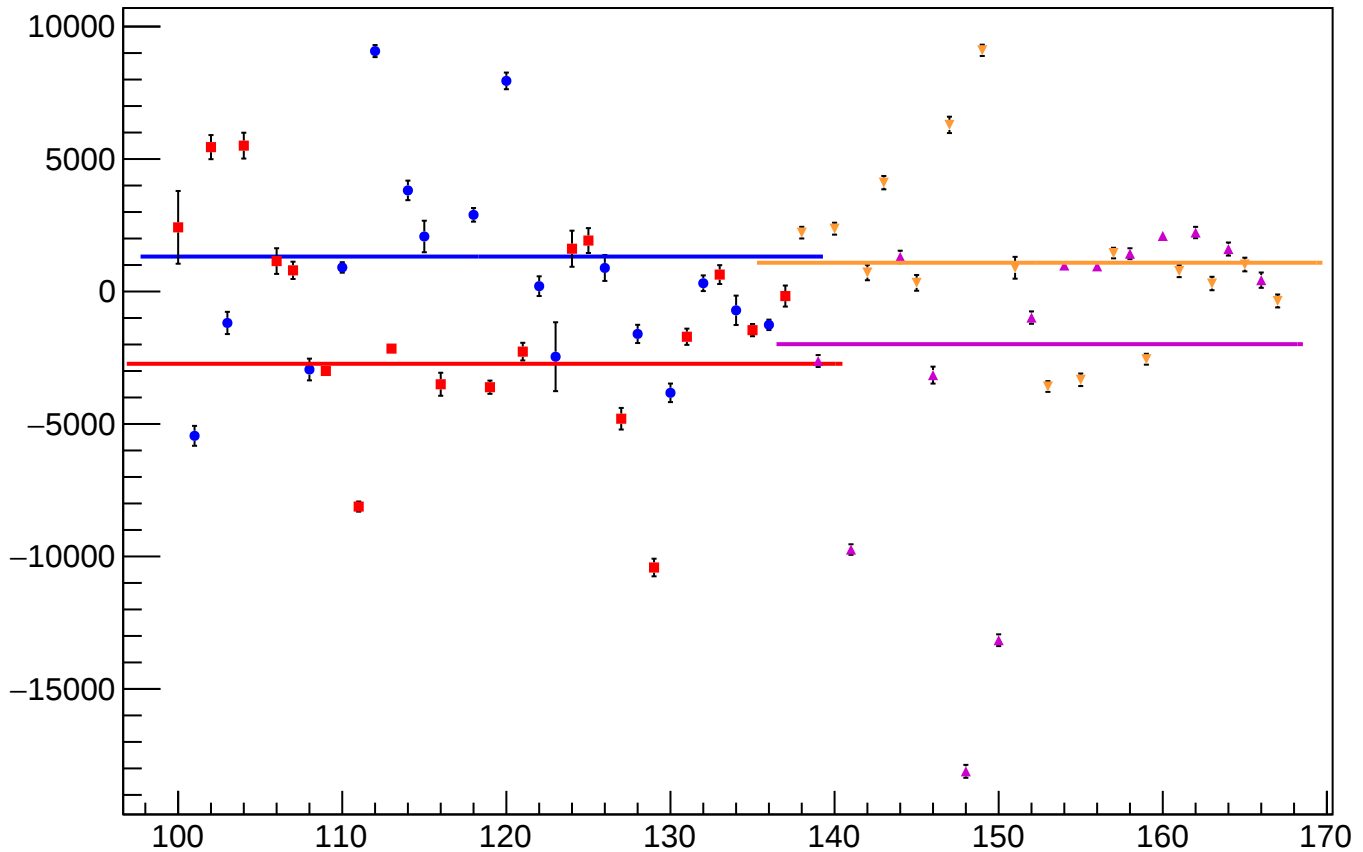
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 172.208+/-0.030 χ^2/NDF : 1382821.2/30

Out: 181.428+/-0.031 χ^2/NDF : 1742165.0/34

All: 176.769+/-0.022 χ^2/NDF : 3170893.0/65

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009 ± 77.146 $\chi^2/\text{NDF}: 2667.0/16$

Left Out: 1086.184 ± 60.371 $\chi^2/\text{NDF}: 3154.3/15$

Right Out: -2727.798 ± 70.029 $\chi^2/\text{NDF}: 2495.9/18$

Left In: -1987.401 ± 56.136 $\chi^2/\text{NDF}: 10875.9/13$

Left: -562.195 ± 41.110 $\chi^2/\text{NDF}: 15420.2/29$

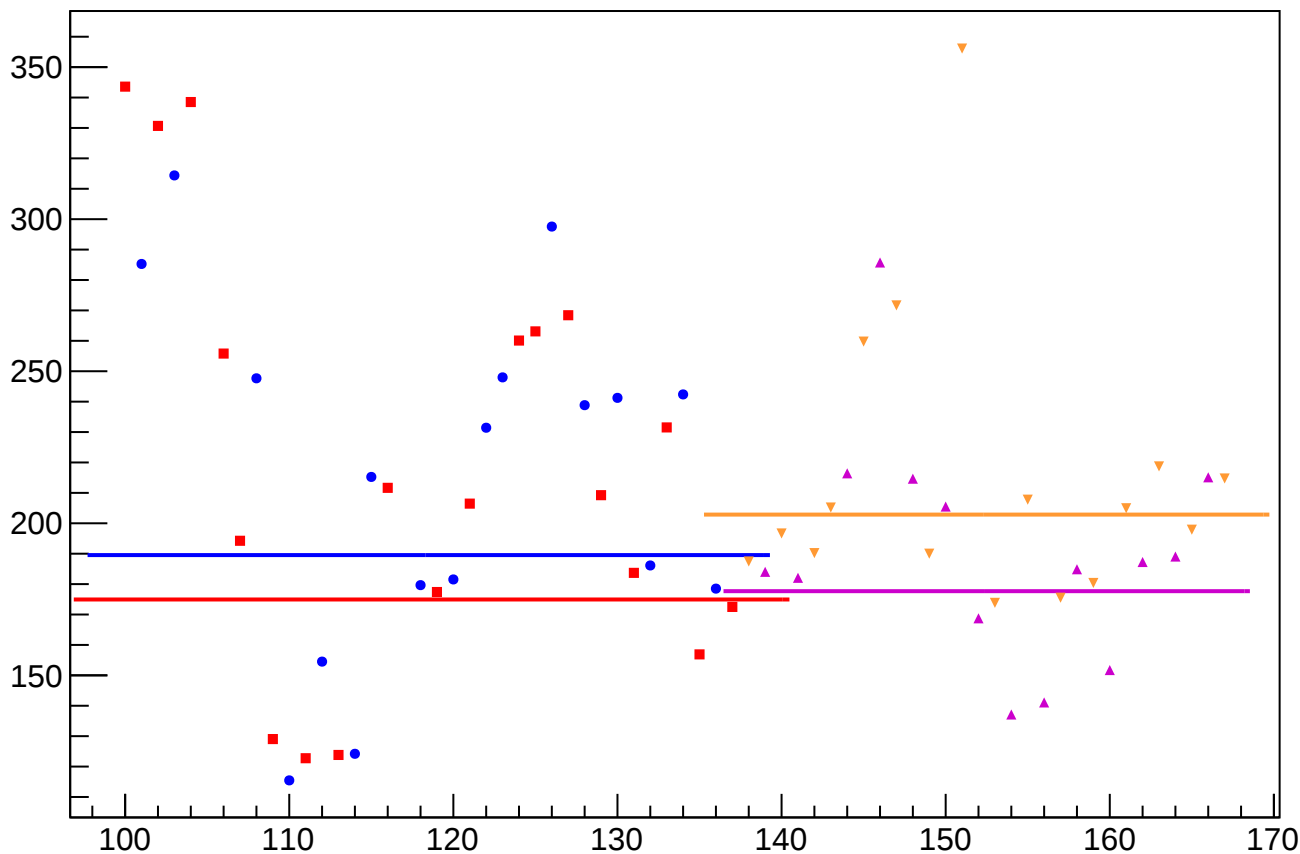
Right: -899.614 ± 51.852 $\chi^2/\text{NDF}: 6671.5/35$

In: -842.757 ± 45.391 $\chi^2/\text{NDF}: 14743.9/30$

Out: -539.875 ± 45.725 $\chi^2/\text{NDF}: 7351.8/34$

All: -692.429 ± 32.214 $\chi^2/\text{NDF}: 22117.7/65$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.860 $\pm$ 0.043 χ^2 /NDF: 587933.9/15

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: 189.354 $\pm$ 0.029 χ^2 /NDF: 1475148.9/29

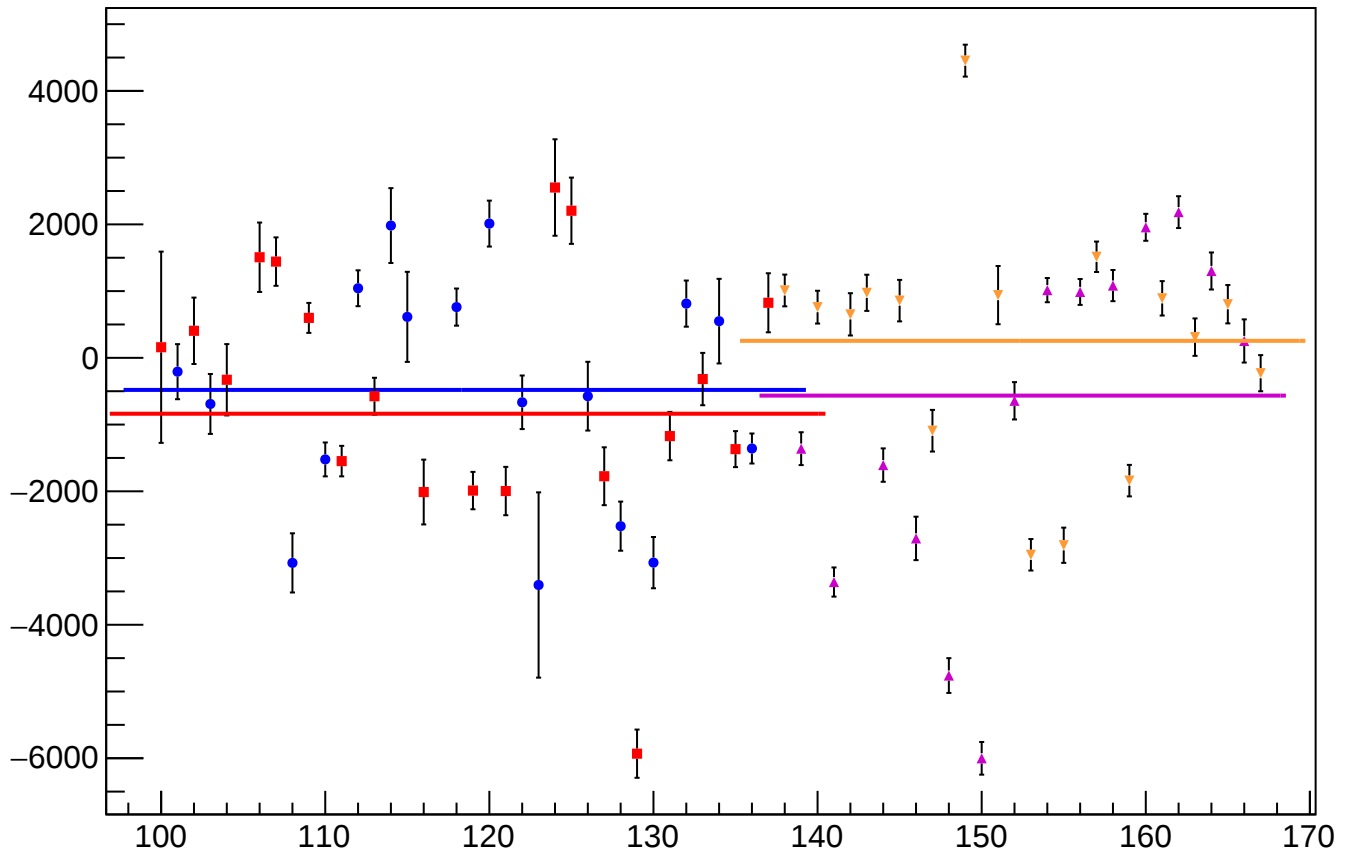
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 181.785 $\pm$ 0.032 χ^2 /NDF: 1712269.7/30

Out: 190.958 $\pm$ 0.032 χ^2 /NDF: 2067363.3/34

All: 186.338 $\pm$ 0.023 χ^2 /NDF: 3820169.8/65

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 254.970 ± 66.806 χ^2/NDF : 797.2/15

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: -175.408 ± 46.075 χ^2/NDF : 2393.1/29

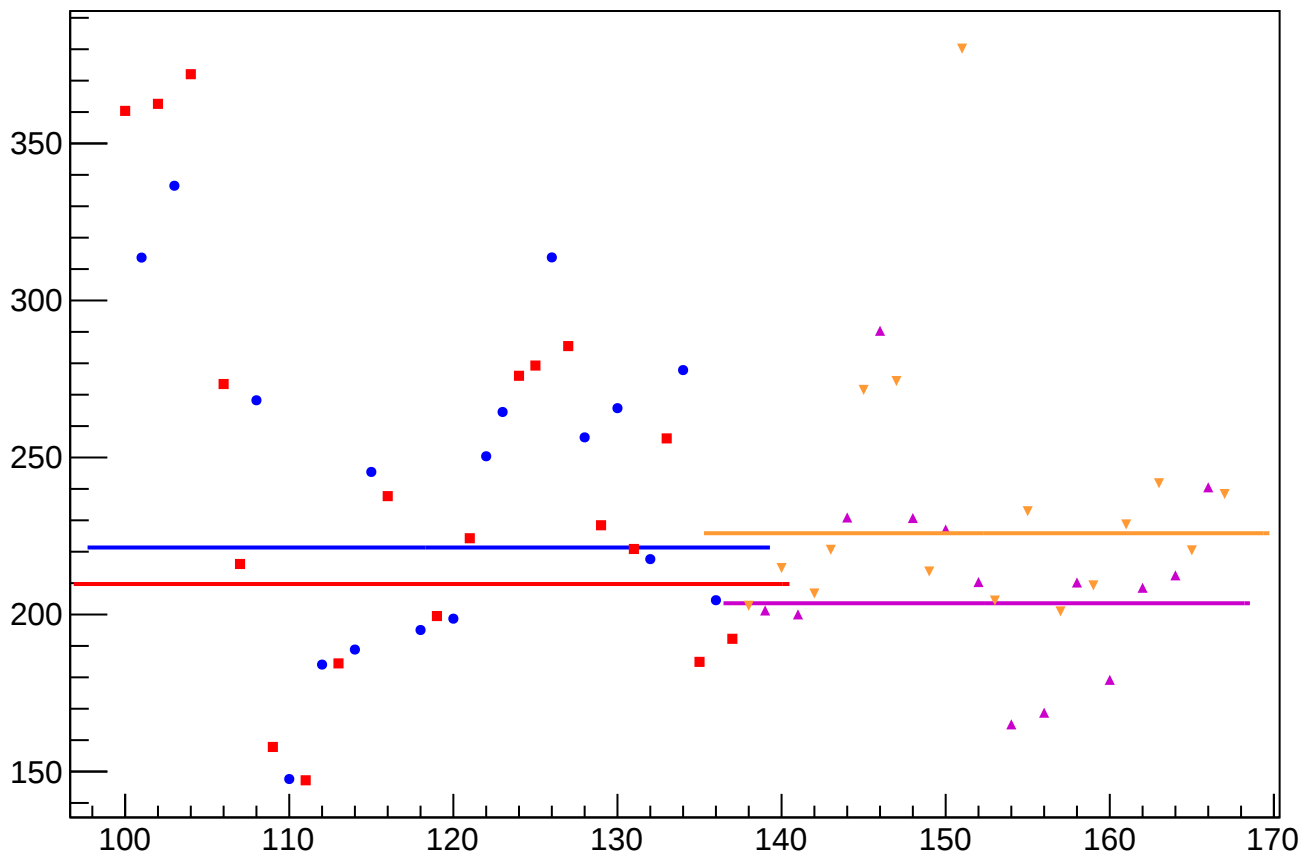
Right: -672.351 ± 60.290 χ^2/NDF : 734.7/35

In: -536.852 ± 51.691 χ^2/NDF : 1808.1/30

Out: -179.294 ± 51.854 χ^2/NDF : 1338.8/34

All: -358.636 ± 36.609 χ^2/NDF : 3170.8/65

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 225.888 $\pm$ 0.047 χ^2 /NDF: 440939.8/15

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 203.590 $\pm$ 0.045 χ^2 /NDF: 422645.2/13

Left: 214.197 $\pm$ 0.033 χ^2 /NDF: 980403.9/29

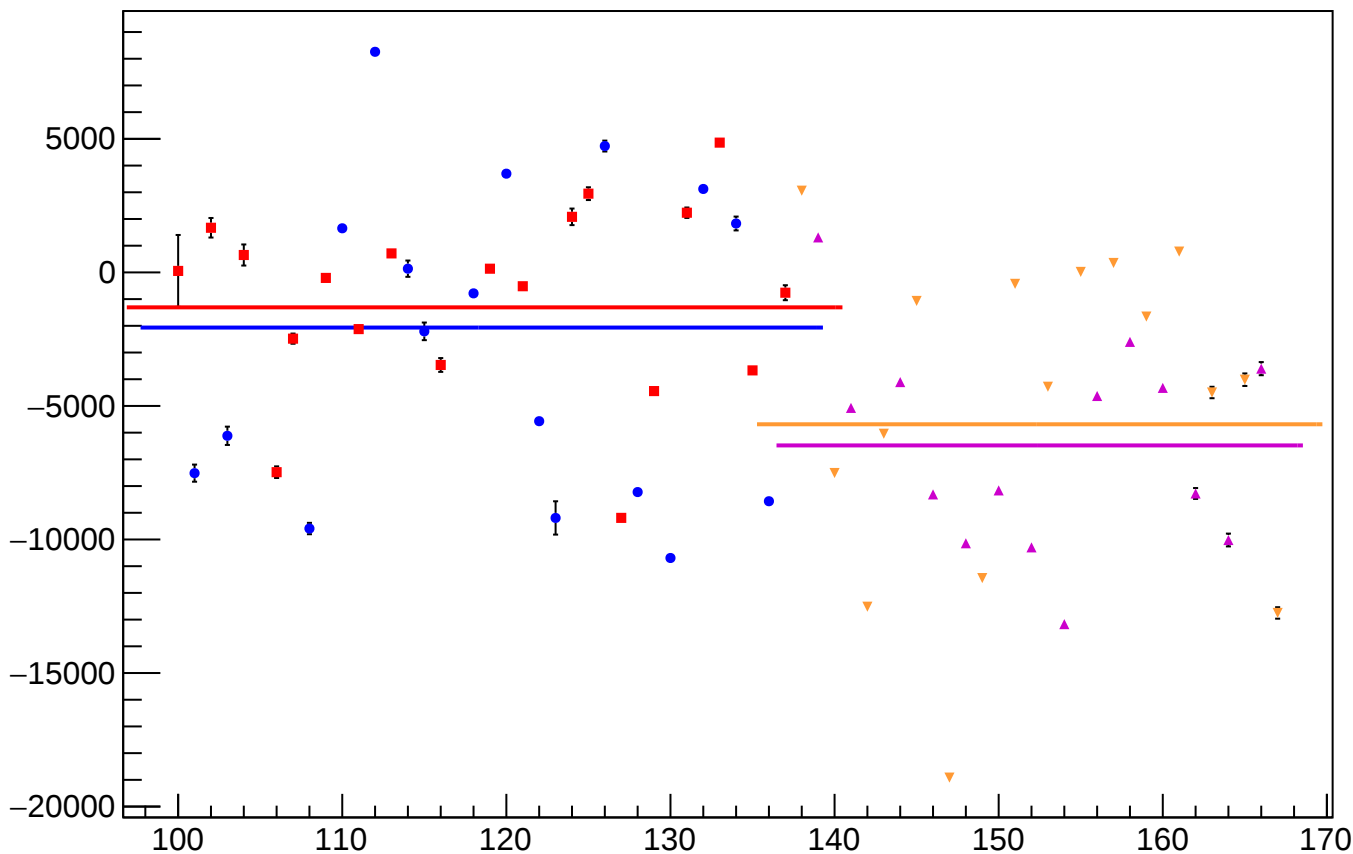
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 209.627 $\pm$ 0.037 χ^2 /NDF: 1121268.5/30

Out: 219.459 $\pm$ 0.037 χ^2 /NDF: 1371443.8/34

All: 214.528 $\pm$ 0.026 χ^2 /NDF: 2528777.4/65

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -5686.485 $\pm$ 37.391 χ^2/NDF :29316.8/15

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -6478.135 $\pm$ 38.921 χ^2/NDF :9102.2/13

Left: -6066.439 $\pm$ 26.964 χ^2/NDF : 38634.2/29

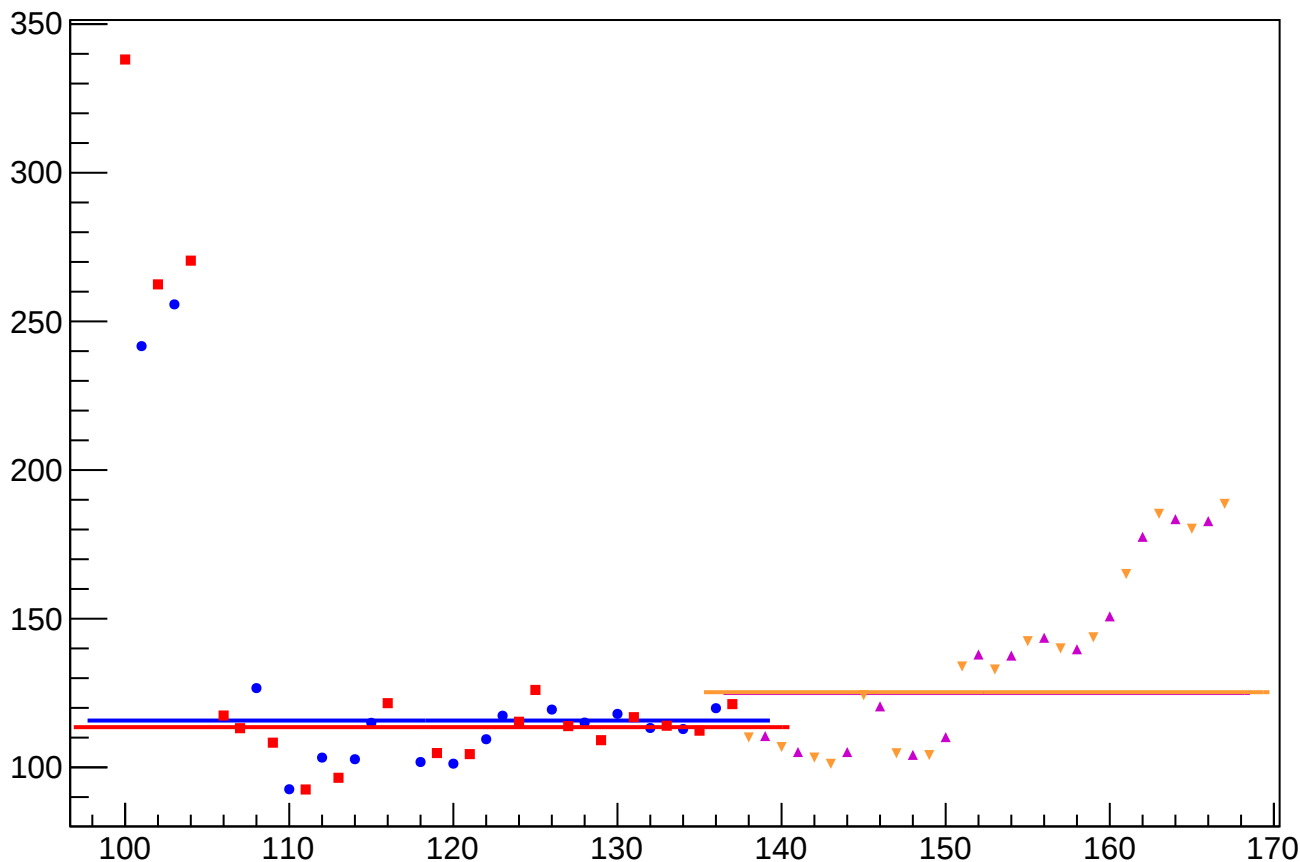
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4697.470 $\pm$ 30.060 χ^2/NDF :30822.8/30

Out: -3898.457 $\pm$ 28.759 χ^2/NDF :40810.3/34

All: -4280.298 $\pm$ 20.780 χ^2/NDF : 72002.0/65

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 $\pm$ 0.033 χ^2 /NDF: 744017.7/16

Left Out: 125.275 $\pm$ 0.026 χ^2 /NDF: 917634.8/15

Right Out: 113.519 $\pm$ 0.032 χ^2 /NDF: 796640.6/18

Left In: 124.997 $\pm$ 0.028 χ^2 /NDF: 718192.0/13

Left: 125.142 $\pm$ 0.019 χ^2 /NDF: 1635879.9/29

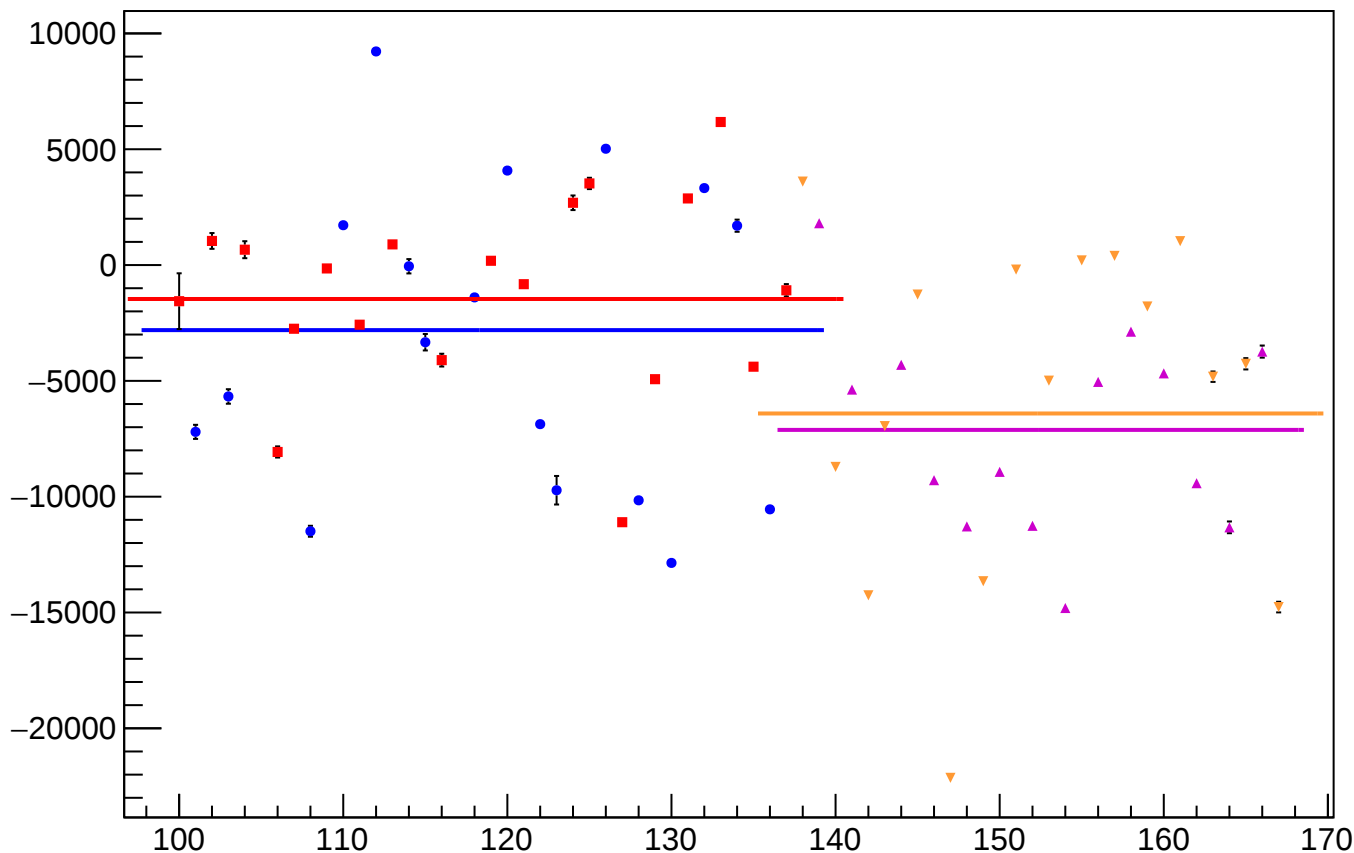
Right: 114.574 $\pm$ 0.023 χ^2 /NDF: 1542972.7/35

In: 121.262 $\pm$ 0.021 χ^2 /NDF: 1507859.2/30

Out: 120.474 $\pm$ 0.020 χ^2 /NDF: 1795027.0/34

All: 120.851 $\pm$ 0.015 χ^2 /NDF: 3303604.2/65

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -6408.003+/-39.701 χ^2/NDF : 35425.5/15

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: -6748.036+/-28.632 χ^2/NDF : 46335.0/29

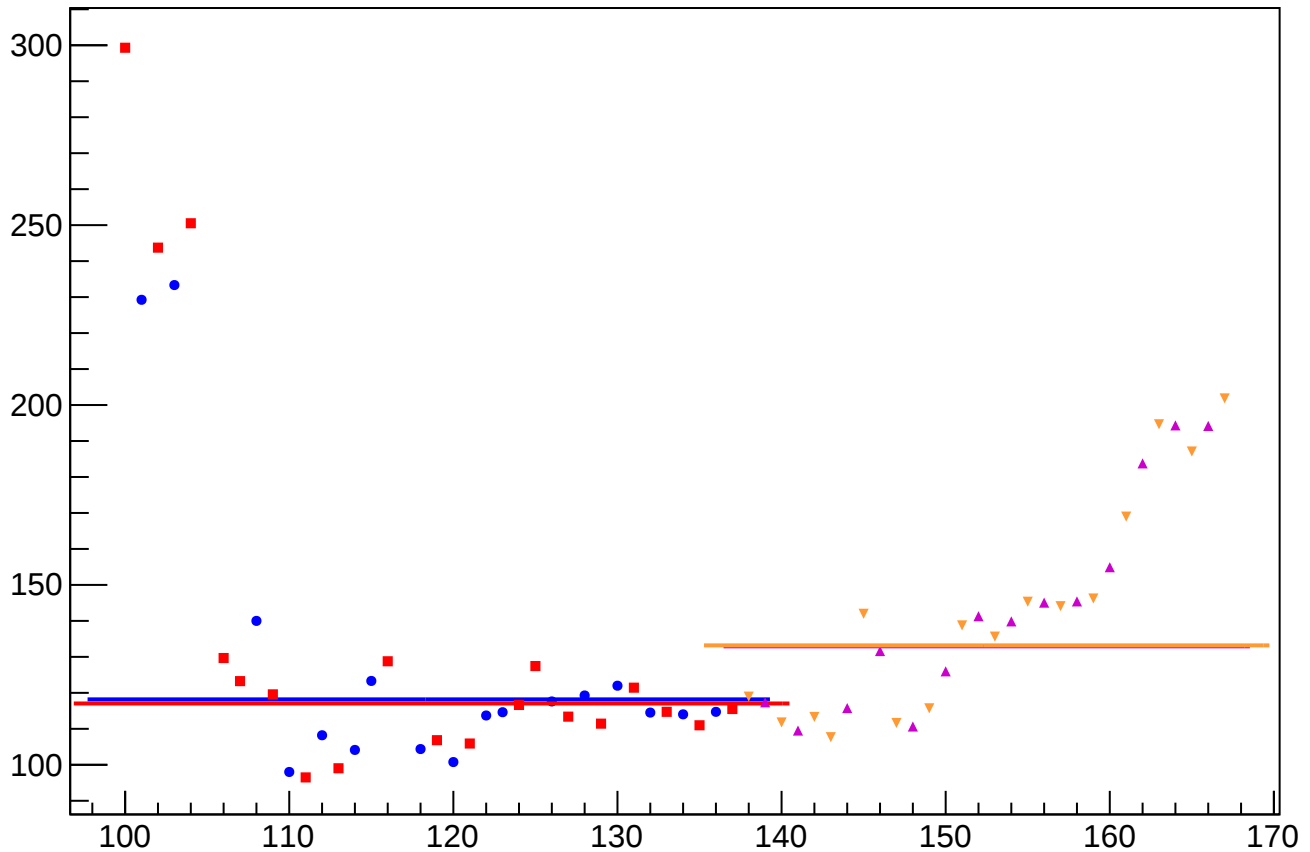
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5295.035+/-31.399 χ^2/NDF : 36612.7/30

Out: -4318.522+/-30.164 χ^2/NDF : 49983.0/34

All: -4787.201+/-21.753 χ^2/NDF : 87098.7/65

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 133.195+/-0.028 χ^2/NDF : 802143.1/15

Right Out: 117.046+/-0.033 χ^2/NDF : 690635.5/18

Left In: 132.927+/-0.029 χ^2/NDF : 611388.4/13

Left: 133.066+/-0.020 χ^2/NDF : 1413575.1/29

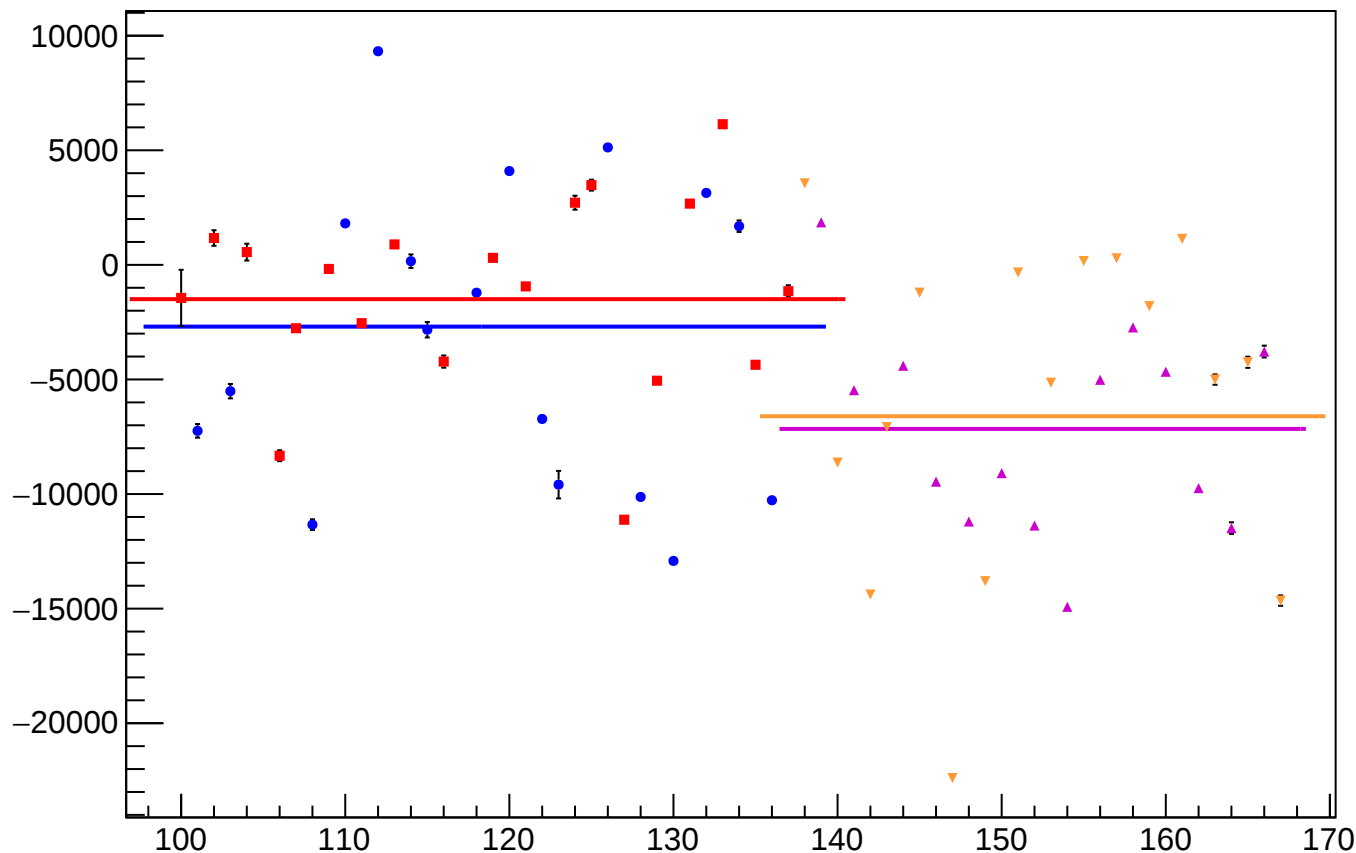
Right: 117.594+/-0.024 χ^2/NDF : 1327469.8/35

In: 126.694+/-0.022 χ^2/NDF : 1355193.1/30

Out: 126.368+/-0.021 χ^2/NDF : 1632667.9/34

All: 126.525+/-0.015 χ^2/NDF : 2987973.3/65

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -6605.471+/-38.758 χ^2/NDF : 38533.3/15

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: -6871.094+/-27.920 χ^2/NDF : 50219.0/29

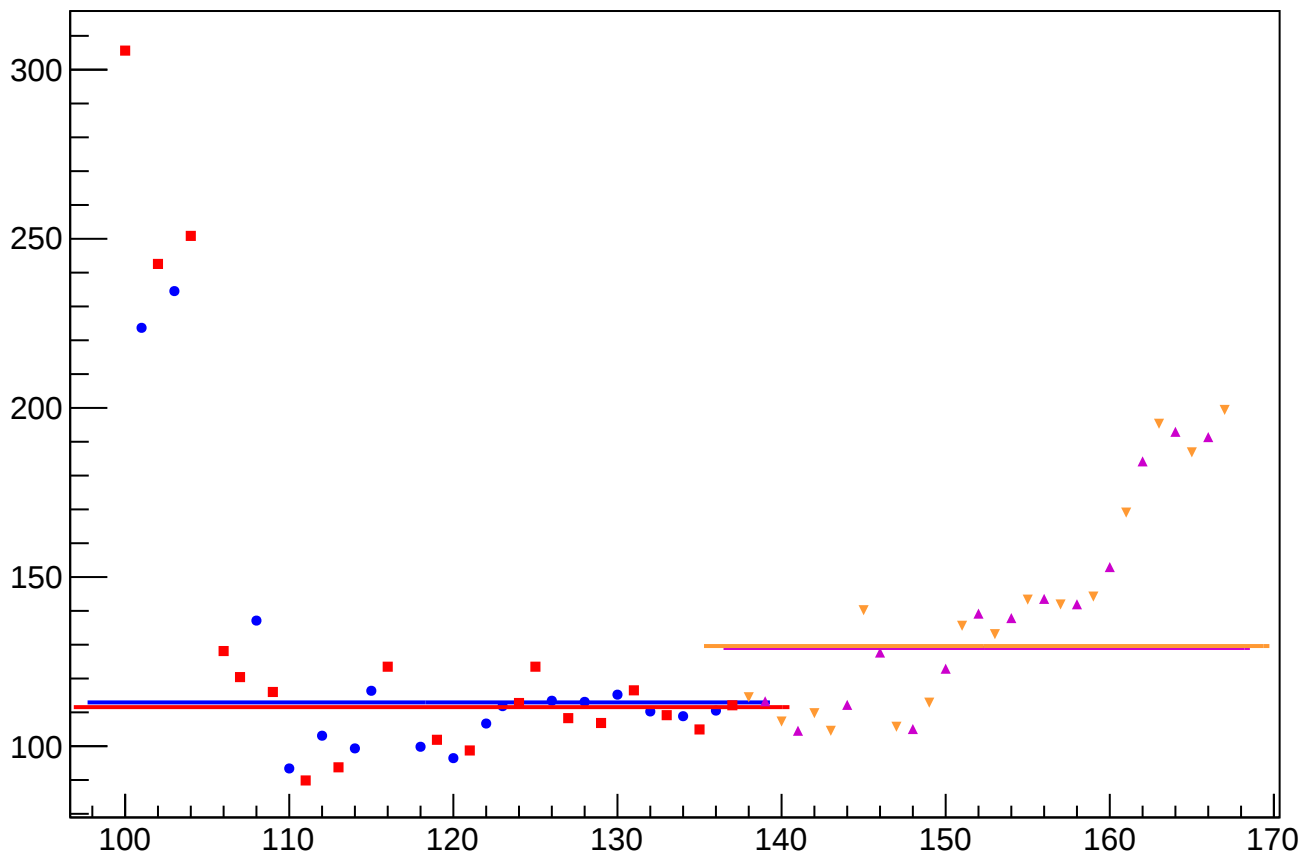
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -5238.454+/-30.391 χ^2/NDF : 39734.9/30

Out: -4398.240+/-29.211 χ^2/NDF : 54758.6/34

All: -4801.715+/-21.060 χ^2/NDF : 94890.7/65

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 ± 0.033 $\chi^2/\text{NDF}: 680283.1/16$

Left Out: 129.603 ± 0.027 $\chi^2/\text{NDF}: 909916.7/15$

Right Out: 111.544 ± 0.031 $\chi^2/\text{NDF}: 765502.6/18$

Left In: 129.033 ± 0.028 $\chi^2/\text{NDF}: 703267.4/13$

Left: 129.328 ± 0.020 $\chi^2/\text{NDF}: 1613392.1/29$

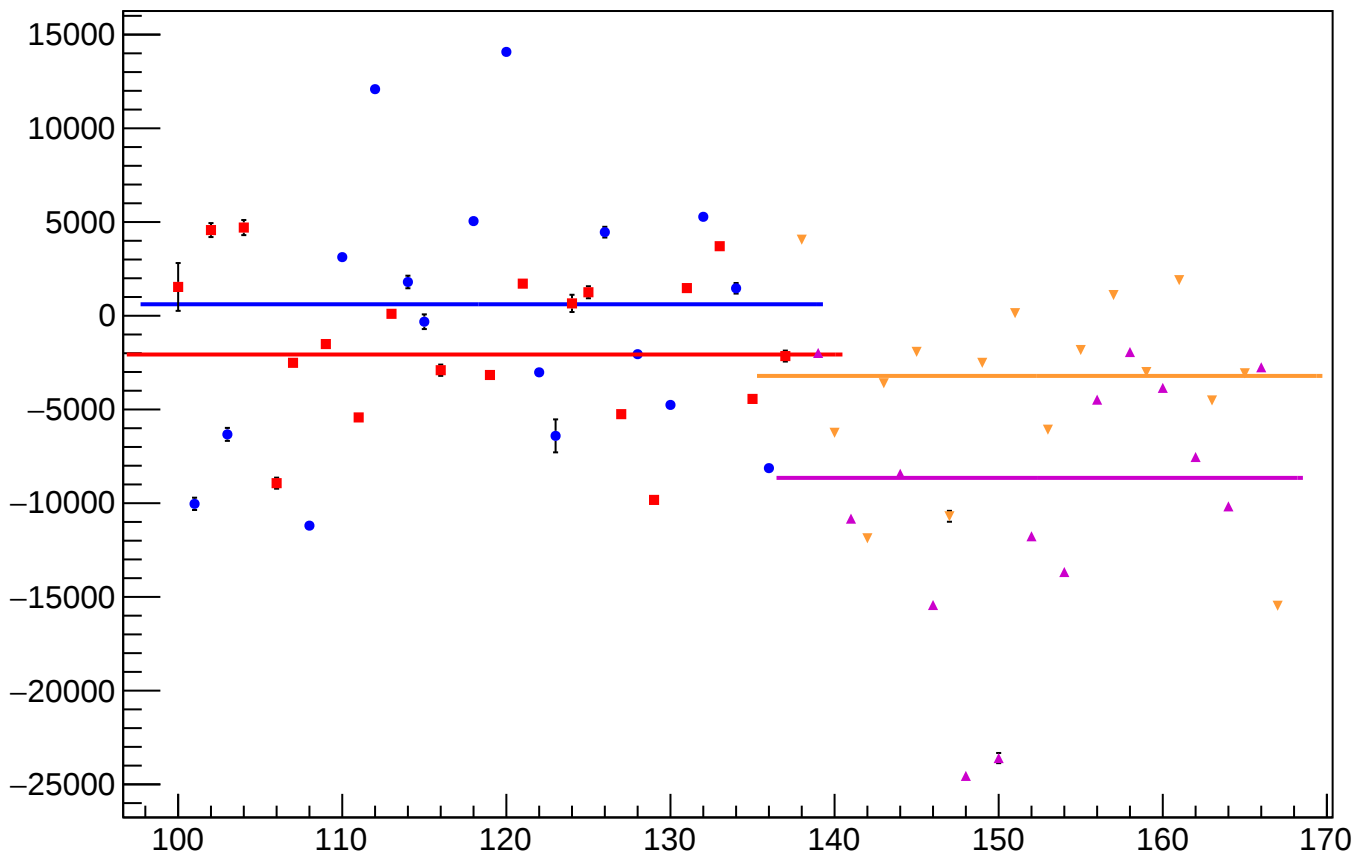
Right: 112.213 ± 0.023 $\chi^2/\text{NDF}: 1446732.2/35$

In: 122.113 ± 0.021 $\chi^2/\text{NDF}: 1520987.5/30$

Out: 121.802 ± 0.021 $\chi^2/\text{NDF}: 1862985.0/34$

All: 121.951 ± 0.015 $\chi^2/\text{NDF}: 3384081.8/65$

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -3209.613 ± 46.299 $\chi^2/\text{NDF}: 10443.1/15$

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: -5735.961 ± 33.884 $\chi^2/\text{NDF}: 31440.8/29$

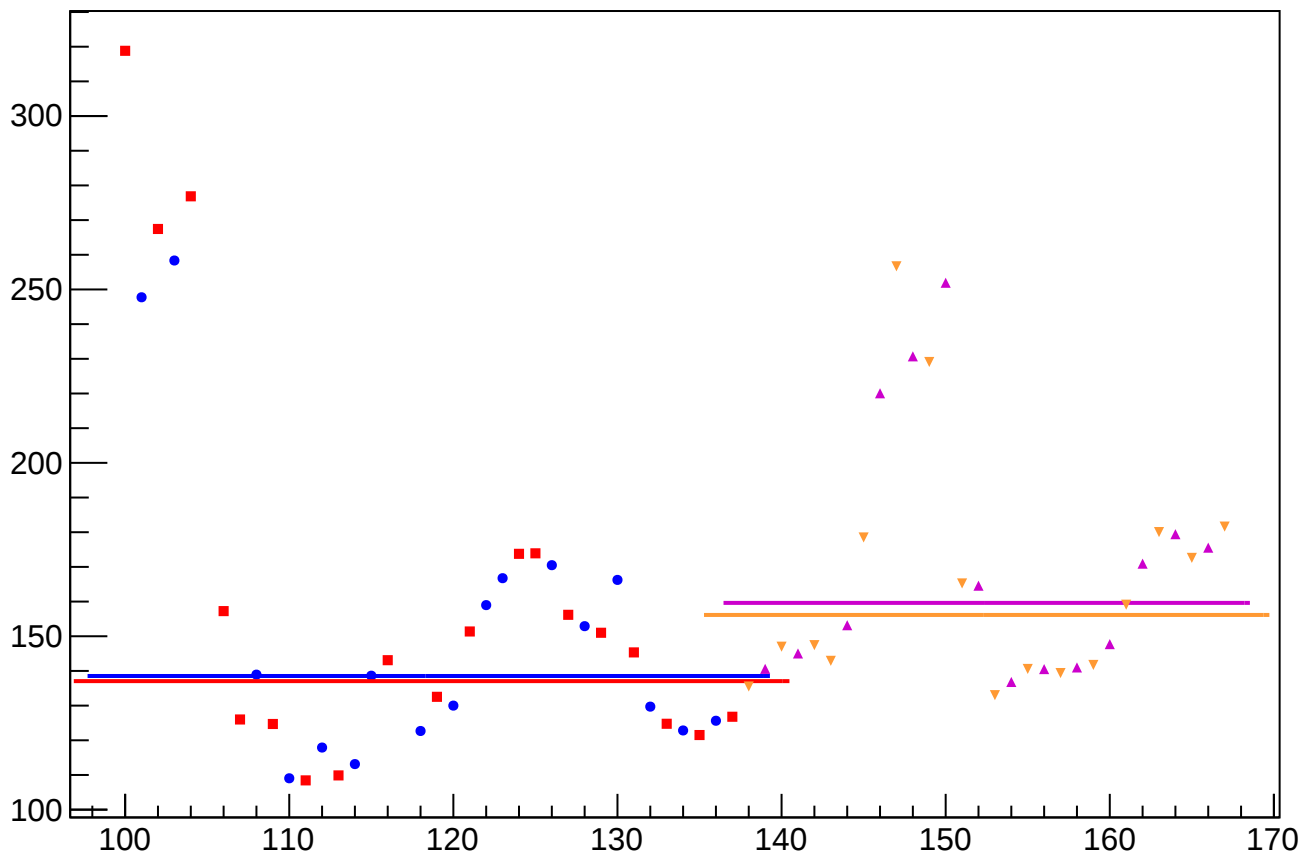
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4571.604 ± 37.199 $\chi^2/\text{NDF}: 48107.9/30$

Out: -2724.975 ± 35.130 $\chi^2/\text{NDF}: 15344.0/34$

All: -3595.493 ± 25.541 $\chi^2/\text{NDF}: 64754.5/65$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542+/-0.040 χ^2/NDF : 668941.7/16

Left Out: 156.144+/-0.033 χ^2/NDF : 656639.4/15

Right Out: 137.061+/-0.038 χ^2/NDF : 755491.9/18

Left In: 159.621+/-0.035 χ^2/NDF : 689497.2/13

Left: 157.759+/-0.024 χ^2/NDF : 1351373.8/29

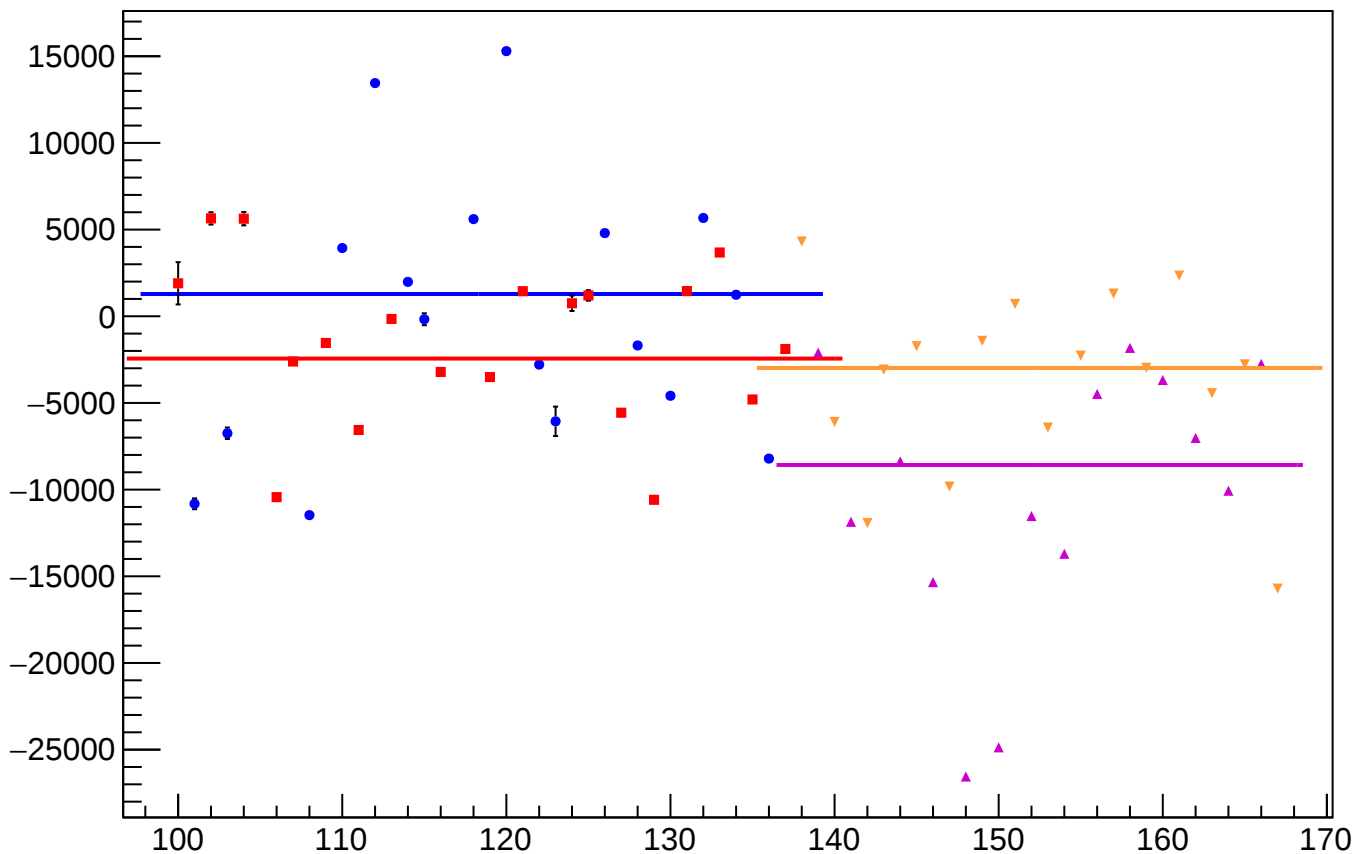
Right: 137.773+/-0.027 χ^2/NDF : 1425158.5/35

In: 150.340+/-0.026 χ^2/NDF : 1516697.4/30

Out: 148.047+/-0.025 χ^2/NDF : 1556297.4/34

All: 149.128+/-0.018 χ^2/NDF : 3077011.6/65

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2981.235+/-41.285 χ^2/NDF :13554.9/15

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: -5576.458+/-30.233 χ^2/NDF : 41475.6/29

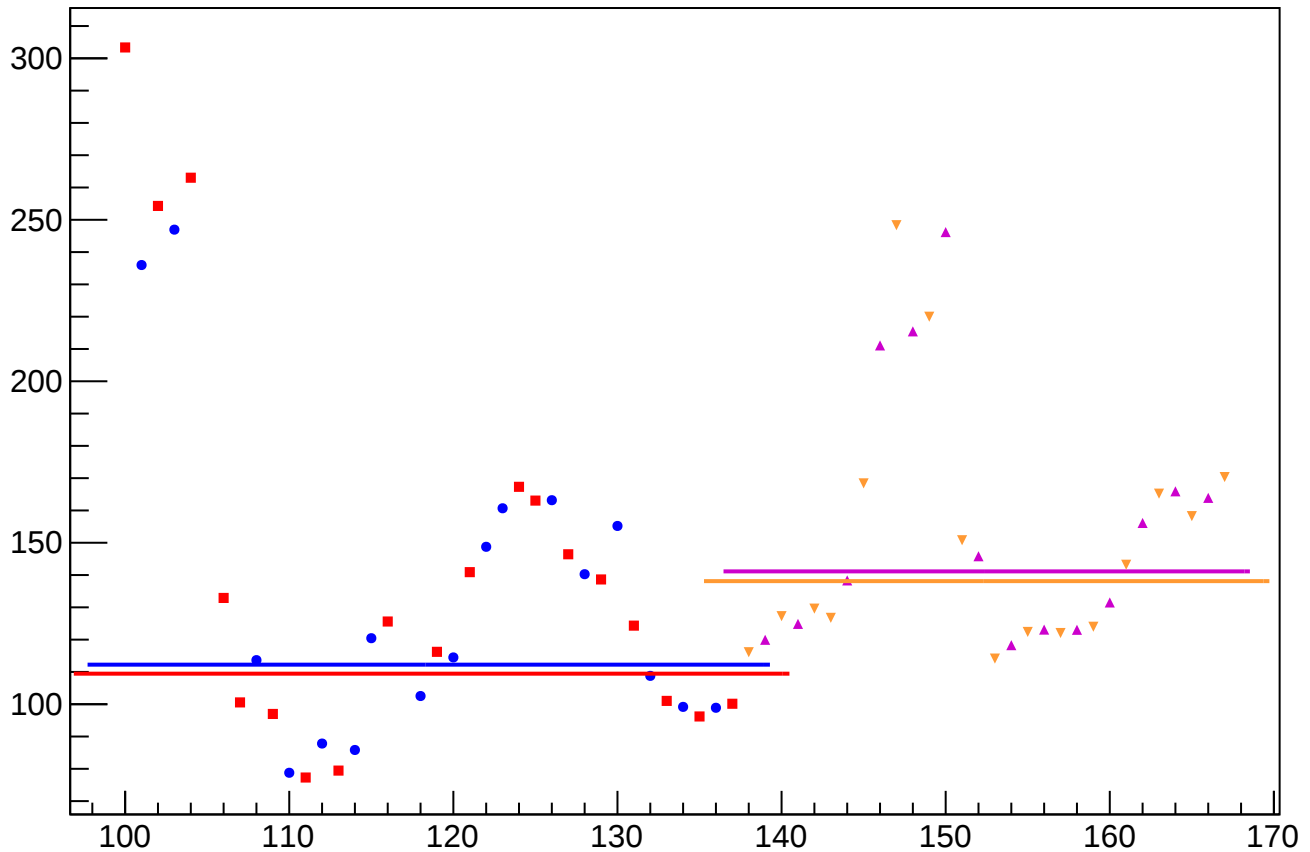
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3883.014+/-32.135 χ^2/NDF :73426.1/30

Out: -2729.694+/-30.198 χ^2/NDF :21312.2/34

All: -3270.558+/-22.006 χ^2/NDF : 95422.4/65

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251 ± 0.033 $\chi^2/\text{NDF}: 1125537.4/16$

Left Out: 138.115 ± 0.029 $\chi^2/\text{NDF}: 922253.3/15$

Right Out: 109.460 ± 0.031 $\chi^2/\text{NDF}: 1269633.4/18$

Left In: 141.133 ± 0.031 $\chi^2/\text{NDF}: 943135.4/13$

Left: 139.515 ± 0.021 $\chi^2/\text{NDF}: 1870345.2/29$

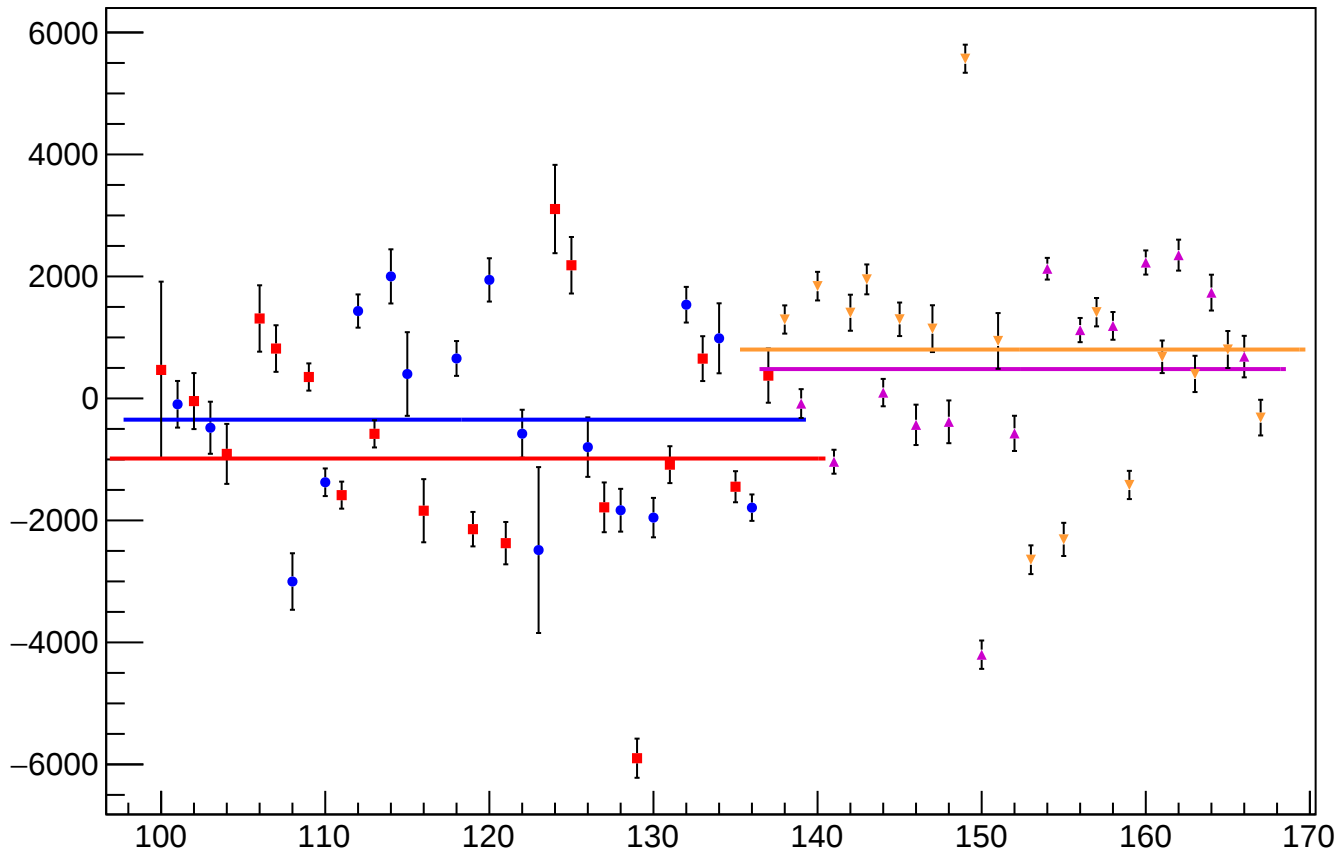
Right: 110.785 ± 0.023 $\chi^2/\text{NDF}: 2398941.6/35$

In: 127.382 ± 0.023 $\chi^2/\text{NDF}: 2471668.6/30$

Out: 124.791 ± 0.021 $\chi^2/\text{NDF}: 2639883.1/34$

All: 126.006 ± 0.016 $\chi^2/\text{NDF}: 5118456.6/65$

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 $\pm$ 83.826 χ^2/NDF : 317.3/16

Left Out: 801.622 $\pm$ 66.631 χ^2/NDF : 943.6/15

Right Out: -985.242 $\pm$ 77.683 χ^2/NDF : 476.6/18

Left In: 481.333 $\pm$ 63.361 χ^2/NDF : 757.1/13

Left: 633.424 $\pm$ 45.916 χ^2/NDF : 1712.9/29

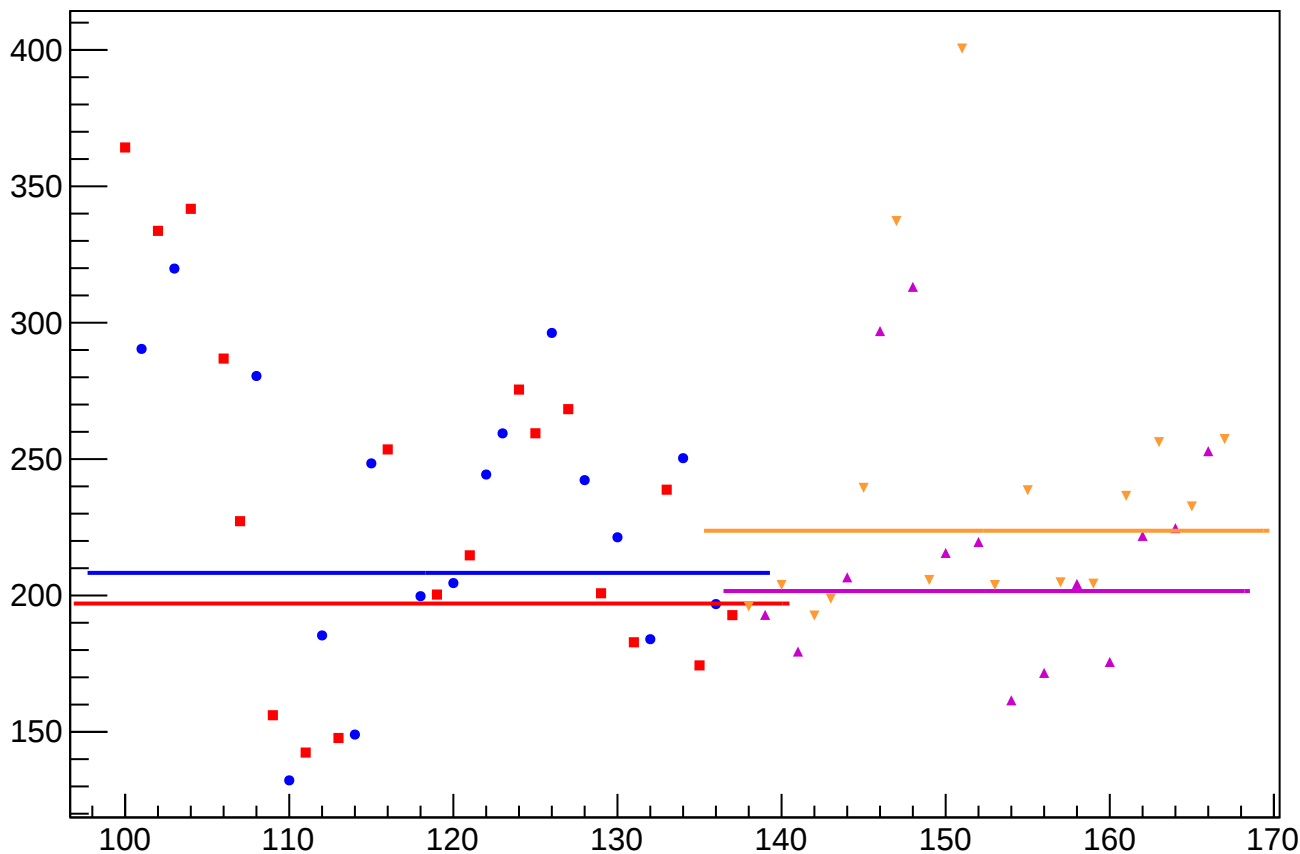
Right: -690.850 $\pm$ 56.978 χ^2/NDF : 824.9/35

In: 179.773 $\pm$ 50.546 χ^2/NDF : 1136.7/30

Out: 44.233 $\pm$ 50.575 χ^2/NDF : 1725.0/34

All: 112.042 $\pm$ 35.752 χ^2/NDF : 2865.3/65

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288 $\pm$ 0.059 χ^2/NDF : 698491.0/16

Left Out: 223.741 $\pm$ 0.047 χ^2/NDF : 683218.1/15

Right Out: 197.051 $\pm$ 0.055 χ^2/NDF : 926786.6/18

Left In: 201.638 $\pm$ 0.045 χ^2/NDF : 664964.6/13

Left: 212.134 $\pm$ 0.032 χ^2/NDF : 1463756.3/29

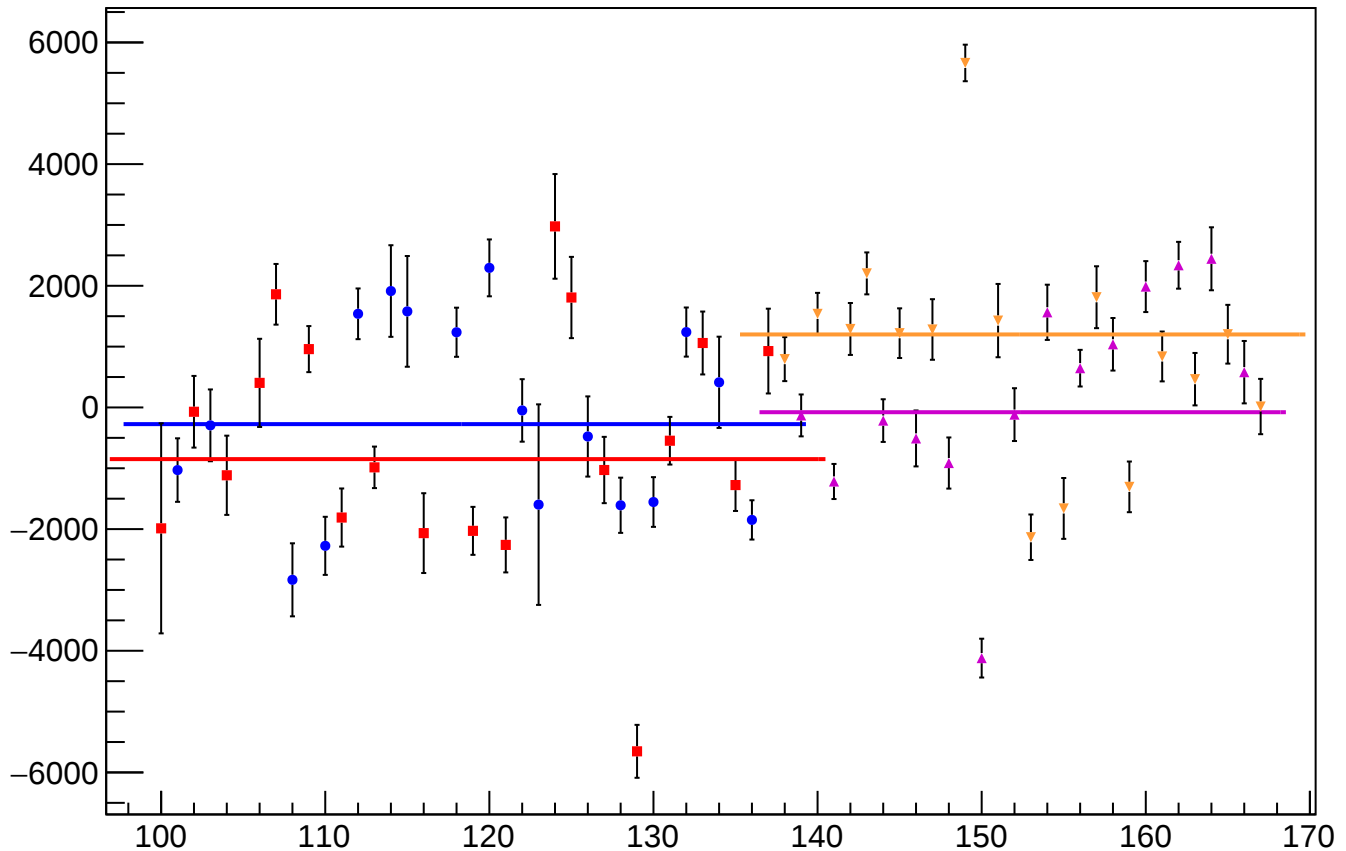
Right: 202.243 $\pm$ 0.040 χ^2/NDF : 1644610.3/35

In: 204.056 $\pm$ 0.036 χ^2/NDF : 1371464.5/30

Out: 212.428 $\pm$ 0.036 χ^2/NDF : 1746024.6/34

All: 208.240 $\pm$ 0.025 χ^2/NDF : 3144909.6/65

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 $\chi^2/\text{NDF}: 171.6/16$

Left Out: 1200.014 ± 102.574 $\chi^2/\text{NDF}: 391.8/15$

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: 559.860 ± 72.476 $\chi^2/\text{NDF}: 765.4/29$

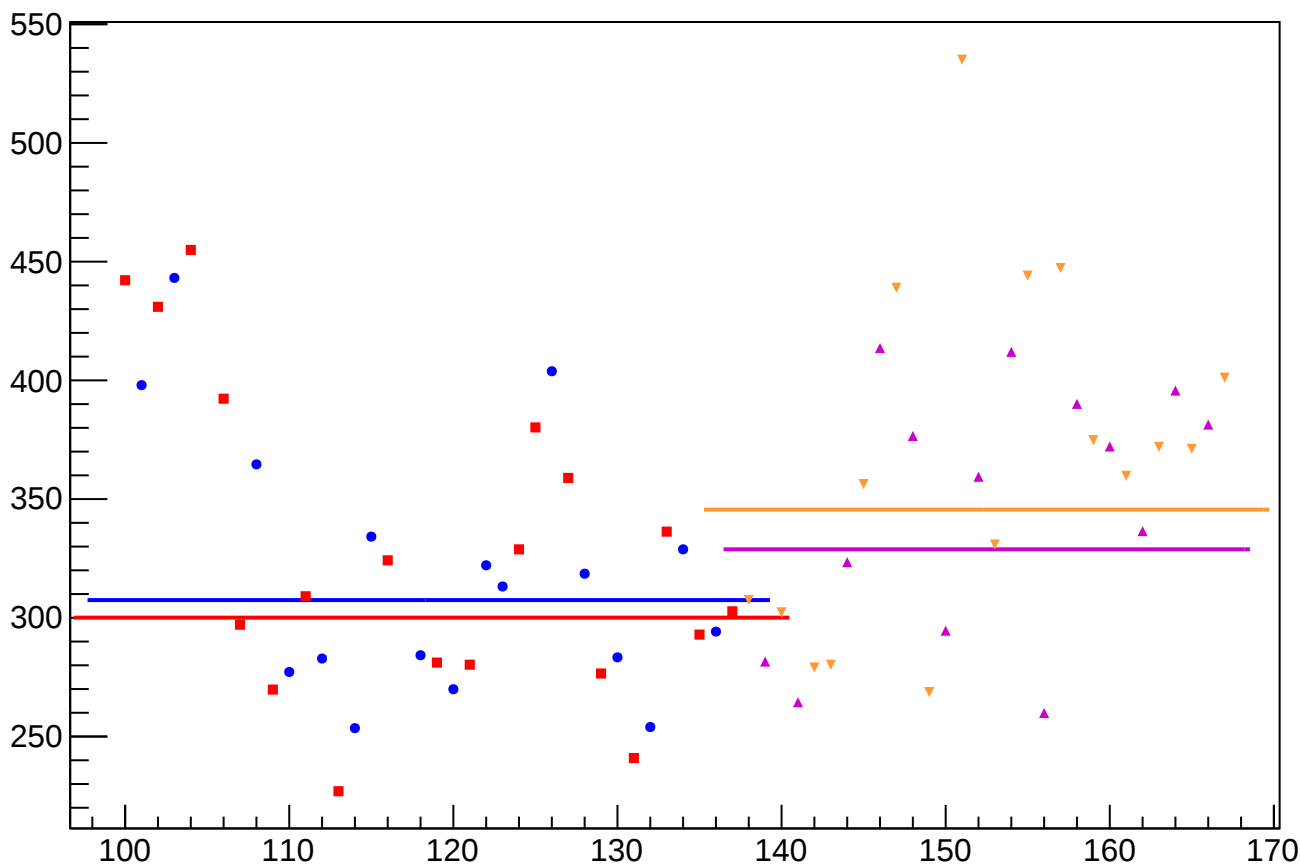
Right: -576.352 ± 83.597 $\chi^2/\text{NDF}: 446.6/35$

In: -159.872 ± 78.262 $\chi^2/\text{NDF}: 468.9/30$

Out: 295.028 ± 76.651 $\chi^2/\text{NDF}: 831.3/34$

All: 72.308 ± 54.761 $\chi^2/\text{NDF}: 1317.5/65$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468+/-0.086 χ^2/NDF : 323096.7/16

Left Out: 345.561+/-0.073 χ^2/NDF : 790291.6/15

Right Out: 300.069+/-0.082 χ^2/NDF : 490398.9/18

Left In: 328.852+/-0.072 χ^2/NDF : 553313.5/13

Left: 337.194+/-0.051 χ^2/NDF : 1370183.2/29

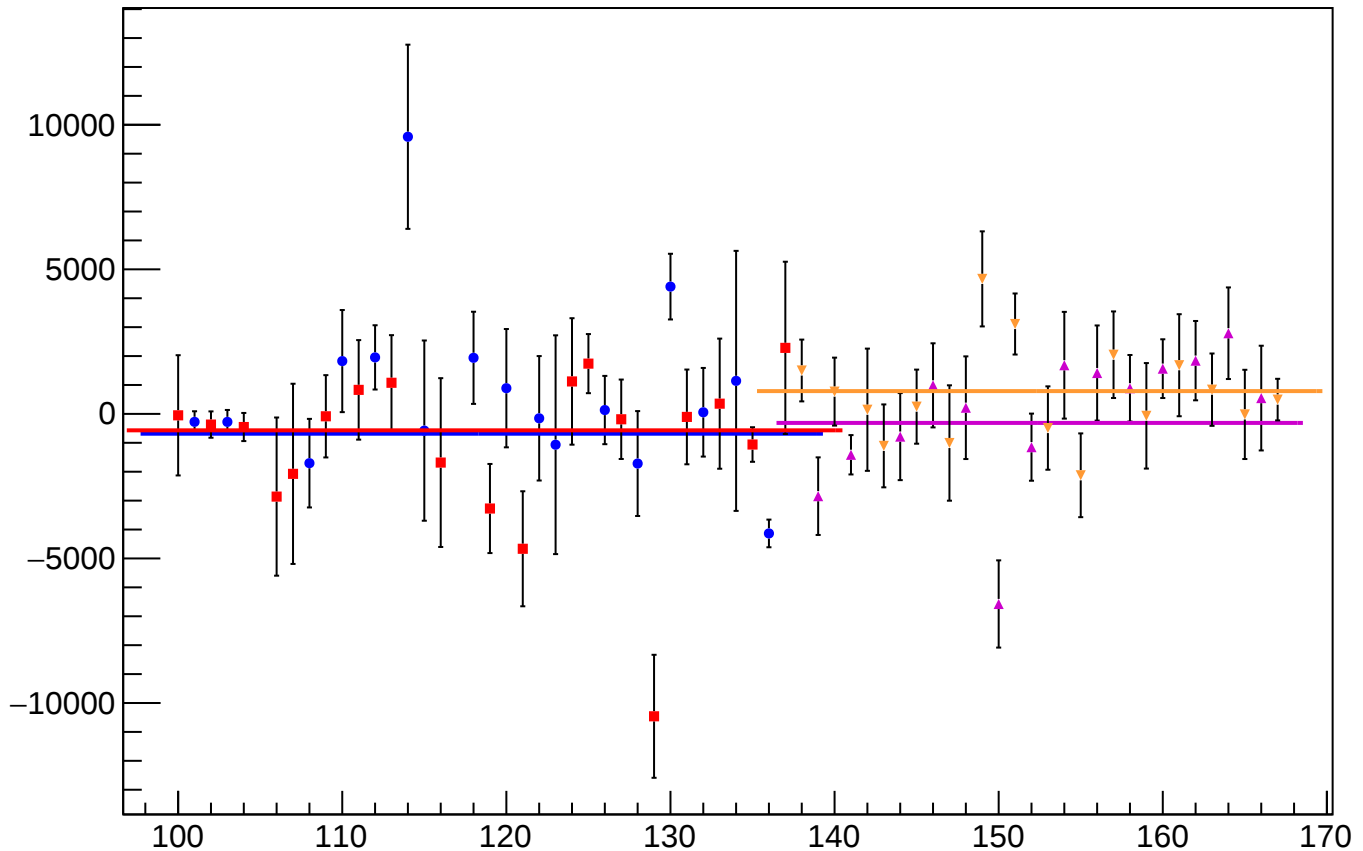
Right: 303.582+/-0.059 χ^2/NDF : 817401.9/35

In: 319.954+/-0.055 χ^2/NDF : 912686.8/30

Out: 325.473+/-0.054 χ^2/NDF : 1454403.1/34

All: 322.771+/-0.039 χ^2/NDF : 2372166.6/65

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2/NDF : 97.4/16

Left Out: 788.259 $\pm$ 325.225 χ^2/NDF :20.1/15

Right Out: -568.651 $\pm$ 243.251 χ^2/NDF : 39.7/18

Left In: -312.009 $\pm$ 338.095 χ^2/NDF :38.2/13

Left: 259.464 $\pm$ 234.387 χ^2/NDF : 63.8/29

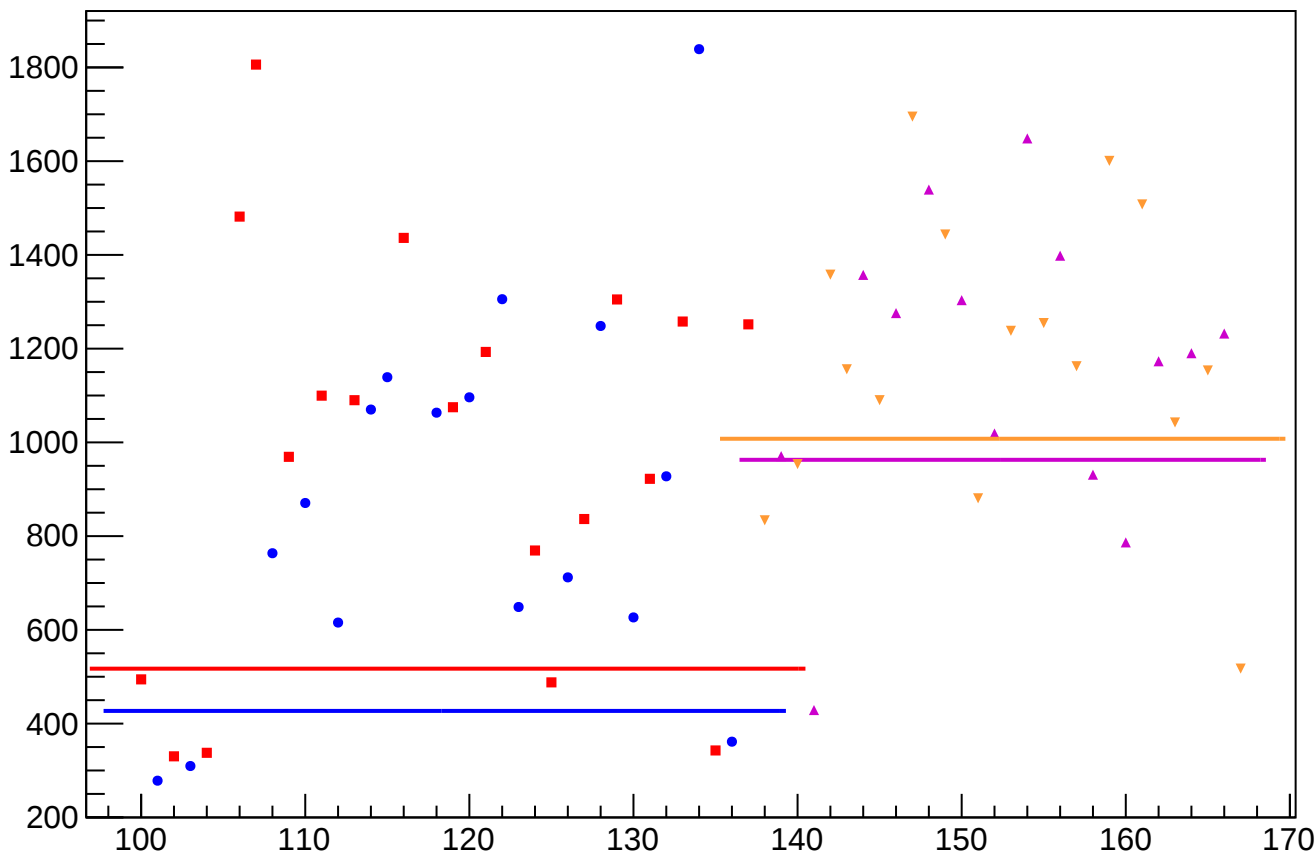
Right: -635.255 $\pm$ 159.106 χ^2/NDF : 137.2/35

In: -580.958 $\pm$ 178.598 χ^2/NDF :136.5/30

Out: -81.876 $\pm$ 194.793 χ^2/NDF :71.0/34

All: -353.023 $\pm$ 131.641 χ^2/NDF : 211.0/65

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 1007.735+/-0.230 χ^2/NDF : 2000013.7/15

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 962.820+/-0.239 χ^2/NDF : 2388601.0/13

Left: 986.149+/-0.166 χ^2/NDF : 4406947.6/29

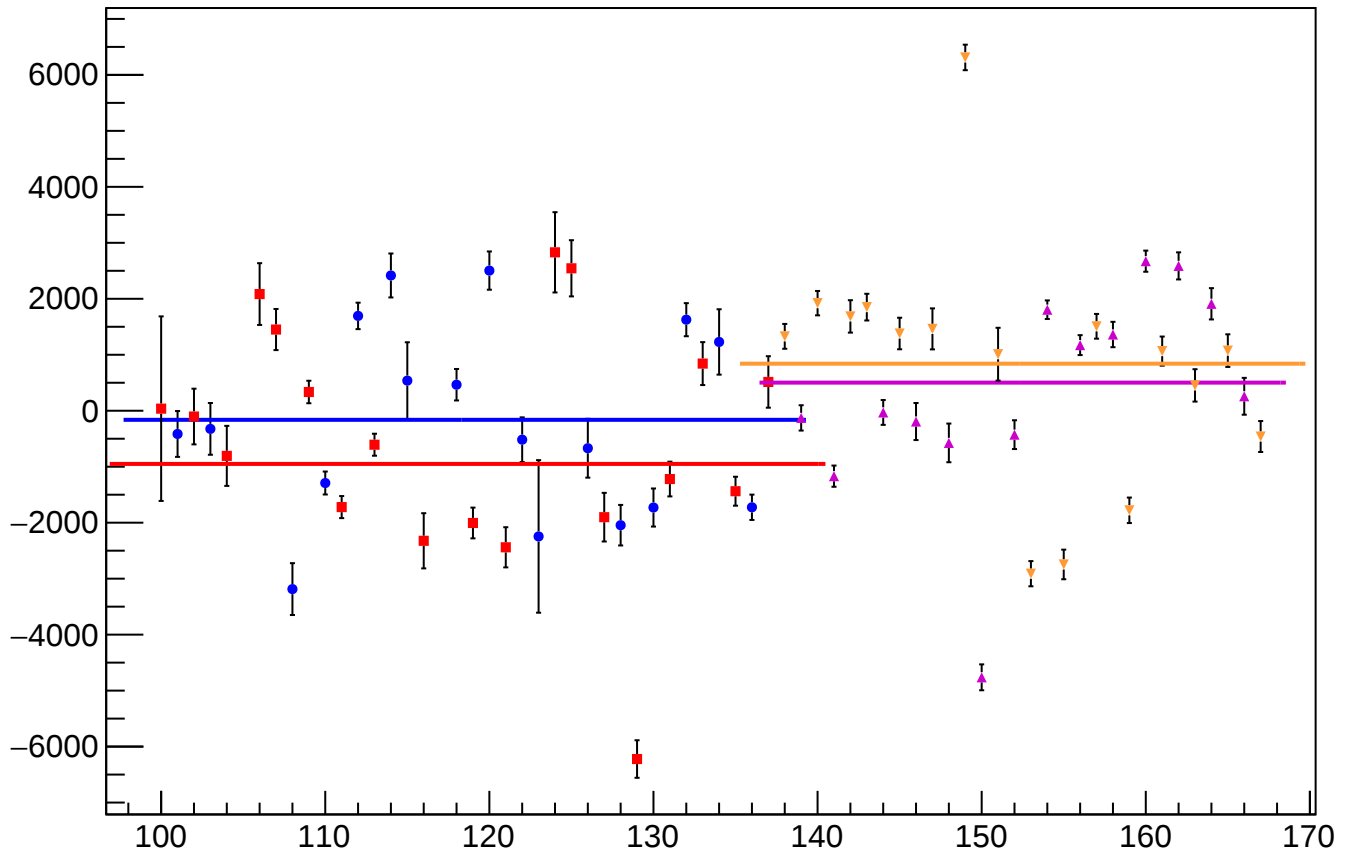
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 576.576+/-0.126 χ^2/NDF : 8874794.0/30

Out: 693.196+/-0.138 χ^2/NDF : 8522395.1/34

All: 629.837+/-0.093 χ^2/NDF : 17786645.2/65

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333±/82.350 χ^2/NDF : 387.6/16

Left Out: 840.740±/64.533 χ^2/NDF :1267.7/15

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: 660.597±/44.121 χ^2/NDF : 2240.9/29

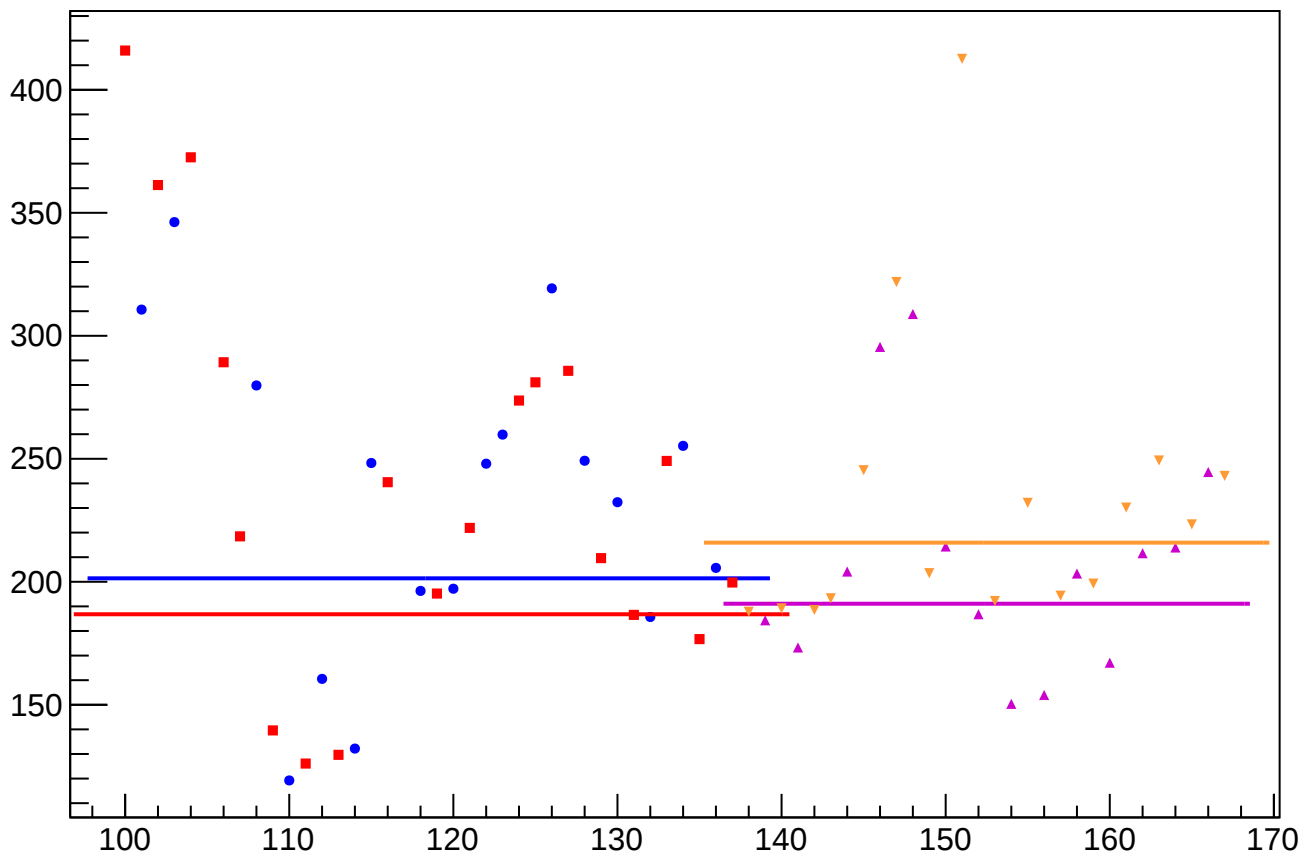
Right: -592.238±/55.504 χ^2/NDF : 977.3/35

In: 269.634±/48.736 χ^2/NDF :1388.5/30

Out: 80.463±/48.954 χ^2/NDF :2134.4/34

All: 175.472±/34.538 χ^2/NDF : 3530.4/65

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 $\pm$ 0.058 χ^2/NDF : 1056022.1/16

Left Out: 215.914 $\pm$ 0.046 χ^2/NDF : 753138.8/15

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: 202.690 $\pm$ 0.031 χ^2/NDF : 1715559.2/29

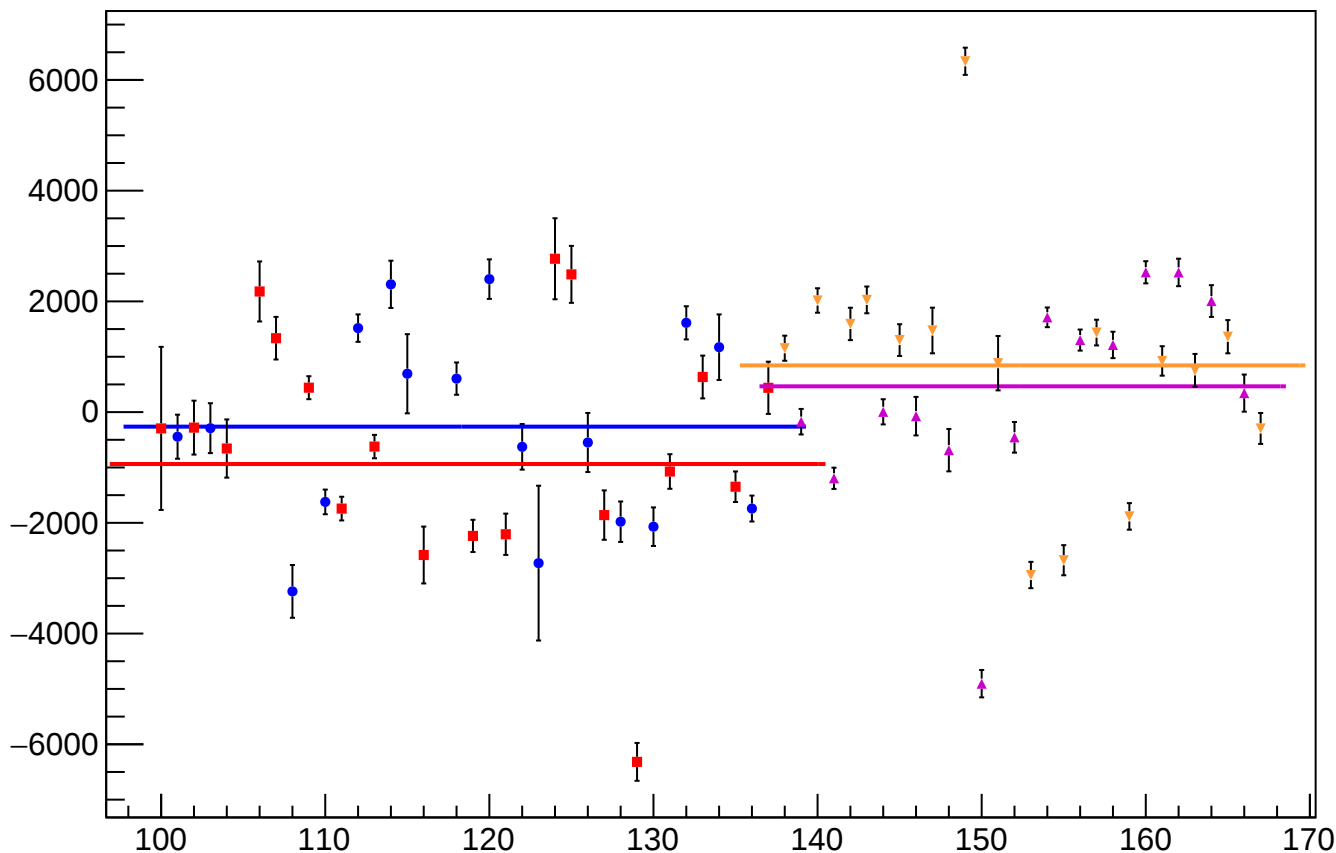
Right: 193.435 $\pm$ 0.039 χ^2/NDF : 2483546.7/35

In: 194.700 $\pm$ 0.034 χ^2/NDF : 1881182.2/30

Out: 203.553 $\pm$ 0.035 χ^2/NDF : 2319146.0/34

All: 199.106 $\pm$ 0.024 χ^2/NDF : 4233180.9/65

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324 ± 85.433 $\chi^2/\text{NDF}: 368.7/16$

Left Out: 844.038 ± 66.807 $\chi^2/\text{NDF}: 1141.9/15$

Right Out: -937.678 ± 78.434 $\chi^2/\text{NDF}: 521.9/18$

Left In: 465.823 ± 63.399 $\chi^2/\text{NDF}: 862.1/13$

Left: 645.036 ± 45.988 $\chi^2/\text{NDF}: 2020.9/29$

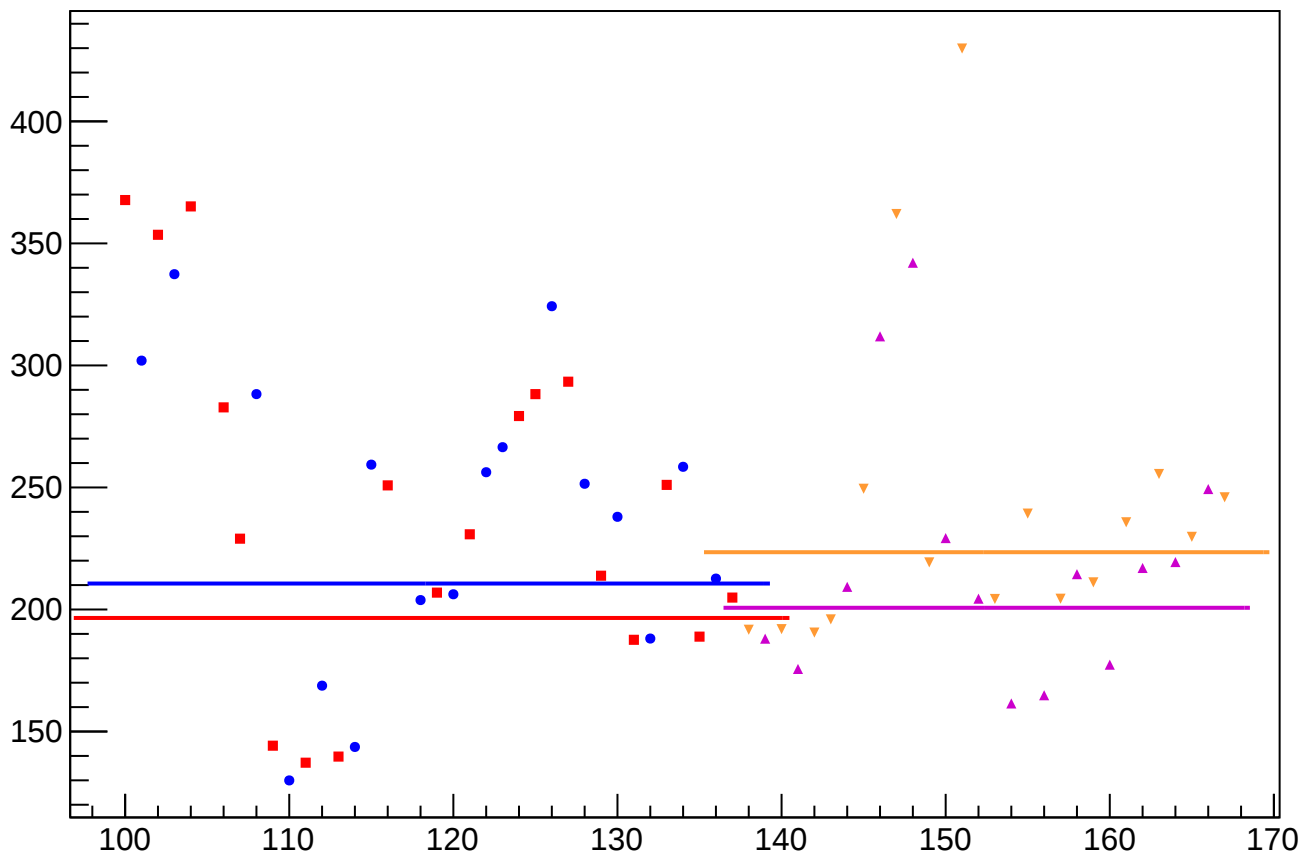
Right: -628.795 ± 57.777 $\chi^2/\text{NDF}: 924.5/35$

In: 207.239 ± 50.912 $\chi^2/\text{NDF}: 1277.7/30$

Out: 94.897 ± 50.859 $\chi^2/\text{NDF}: 1962.9/34$

All: 151.010 ± 35.981 $\chi^2/\text{NDF}: 3243.0/65$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 223.473+/-0.047 χ^2/NDF : 807218.7/15

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: 211.490+/-0.033 χ^2/NDF : 1737347.8/29

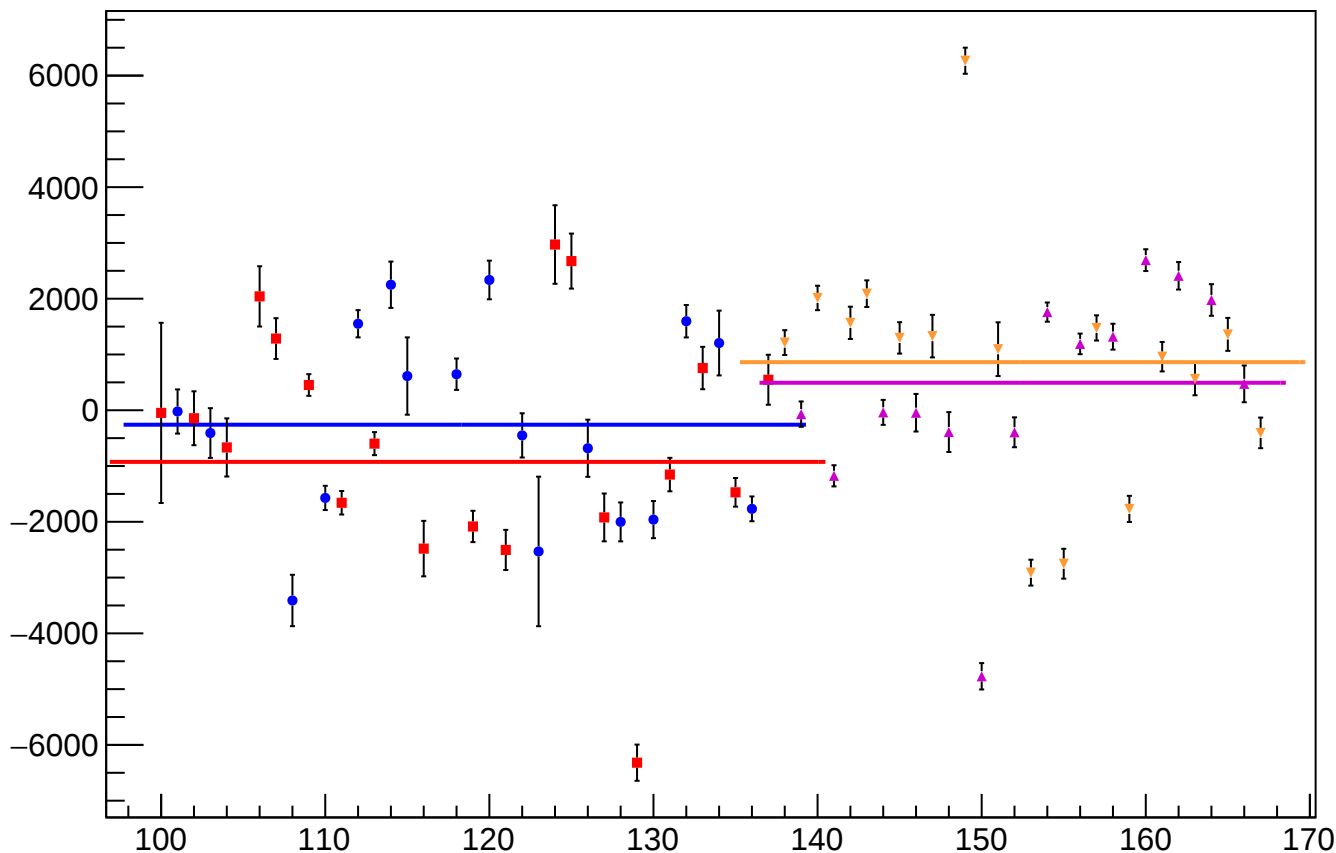
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 204.227+/-0.036 χ^2/NDF : 1701054.8/30

Out: 212.144+/-0.036 χ^2/NDF : 2149103.9/34

All: 208.190+/-0.025 χ^2/NDF : 3874365.0/65

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139 ± 82.802 $\chi^2/\text{NDF}: 391.2/16$

Left Out: 862.450 ± 65.432 $\chi^2/\text{NDF}: 1205.5/15$

Right Out: -925.534 ± 75.503 $\chi^2/\text{NDF}: 581.9/18$

Left In: 493.102 ± 61.830 $\chi^2/\text{NDF}: 899.9/13$

Left: 667.331 ± 44.940 $\chi^2/\text{NDF}: 2122.2/29$

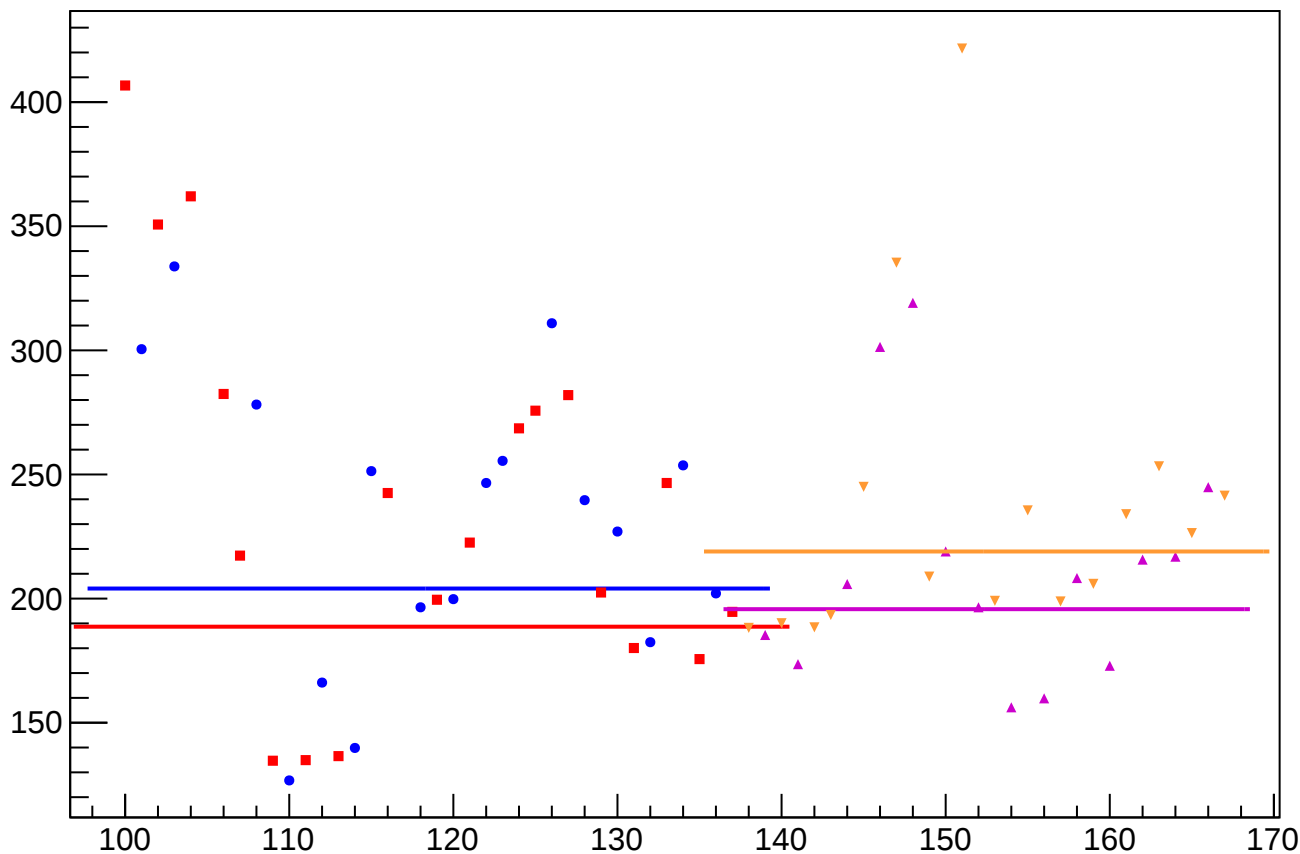
Right: -622.995 ± 55.791 $\chi^2/\text{NDF}: 1008.5/35$

In: 223.812 ± 49.542 $\chi^2/\text{NDF}: 1344.1/30$

Out: 95.583 ± 49.448 $\chi^2/\text{NDF}: 2107.6/34$

All: 159.575 ± 34.998 $\chi^2/\text{NDF}: 3455.1/65$

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 218.977+/-0.046 χ^2/NDF : 771236.0/15

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: 206.700+/-0.032 χ^2/NDF : 1677719.1/29

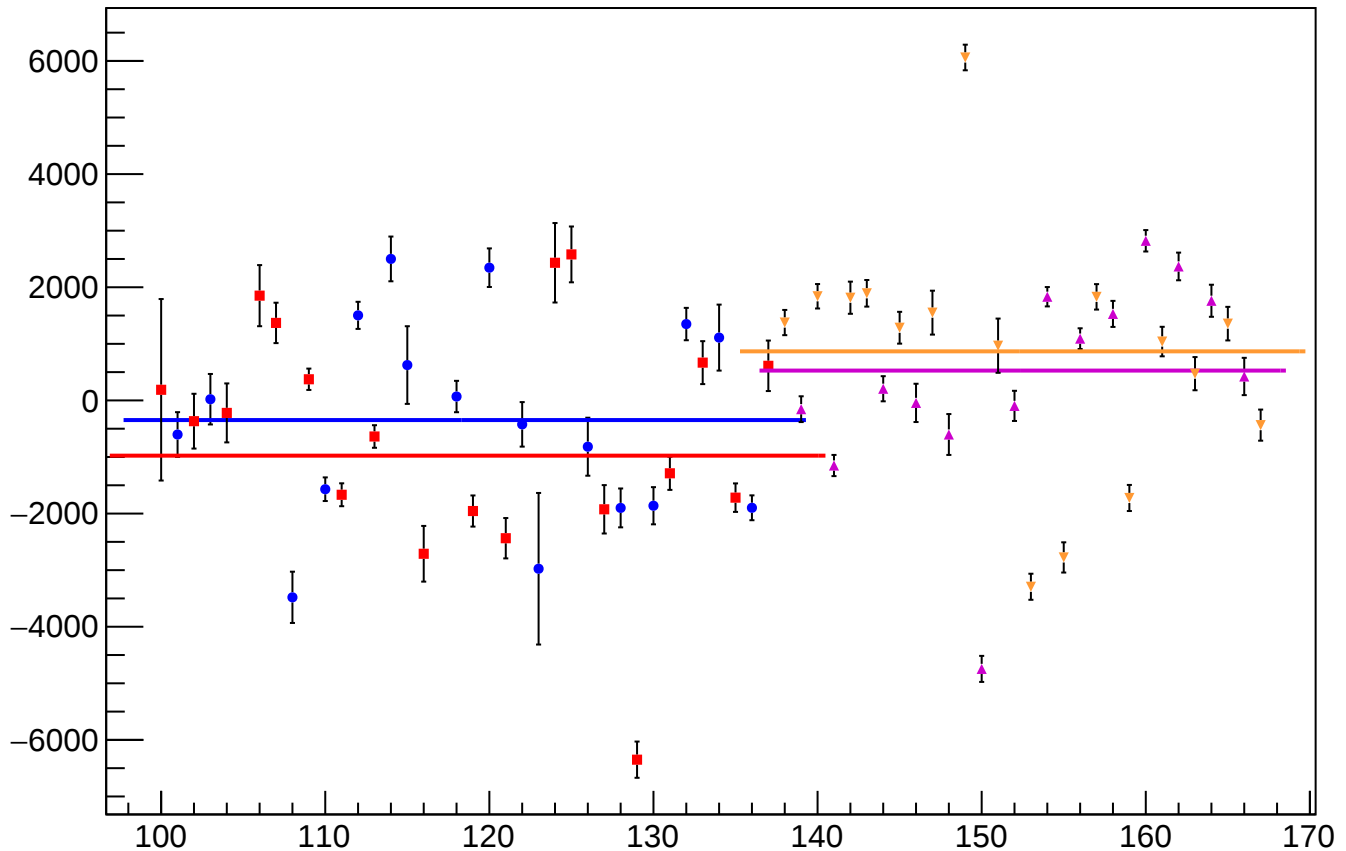
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 198.714+/-0.035 χ^2/NDF : 1654581.6/30

Out: 205.983+/-0.035 χ^2/NDF : 2206243.6/34

All: 202.355+/-0.025 χ^2/NDF : 3882390.3/65

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 $\pm$ 81.318 χ^2/NDF : 399.1/16

Left Out: 867.280 $\pm$ 64.891 χ^2/NDF :1271.1/15

Right Out: -976.286 $\pm$ 73.889 χ^2/NDF : 585.7/18

Left In: 527.359 $\pm$ 61.242 χ^2/NDF :943.7/13

Left: 687.493 $\pm$ 44.539 χ^2/NDF : 2229.3/29

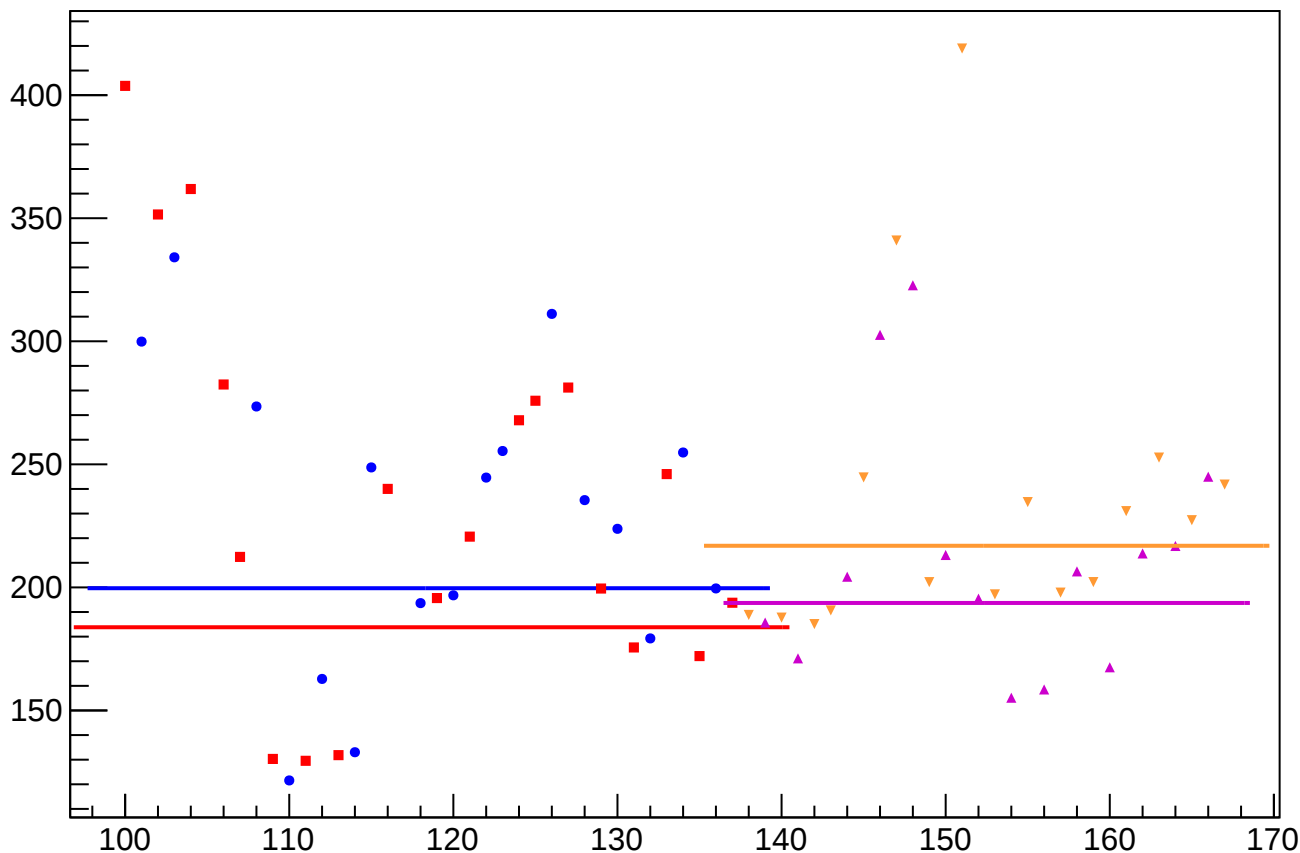
Right: -691.802 $\pm$ 54.685 χ^2/NDF : 1017.5/35

In: 210.828 $\pm$ 48.920 χ^2/NDF :1416.6/30

Out: 64.520 $\pm$ 48.758 χ^2/NDF :2208.2/34

All: 137.430 $\pm$ 34.534 χ^2/NDF : 3629.3/65

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 216.913 $\pm$ 0.046 χ^2 /NDF: 806356.2/15

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: 204.624 $\pm$ 0.031 χ^2 /NDF: 1749741.8/29

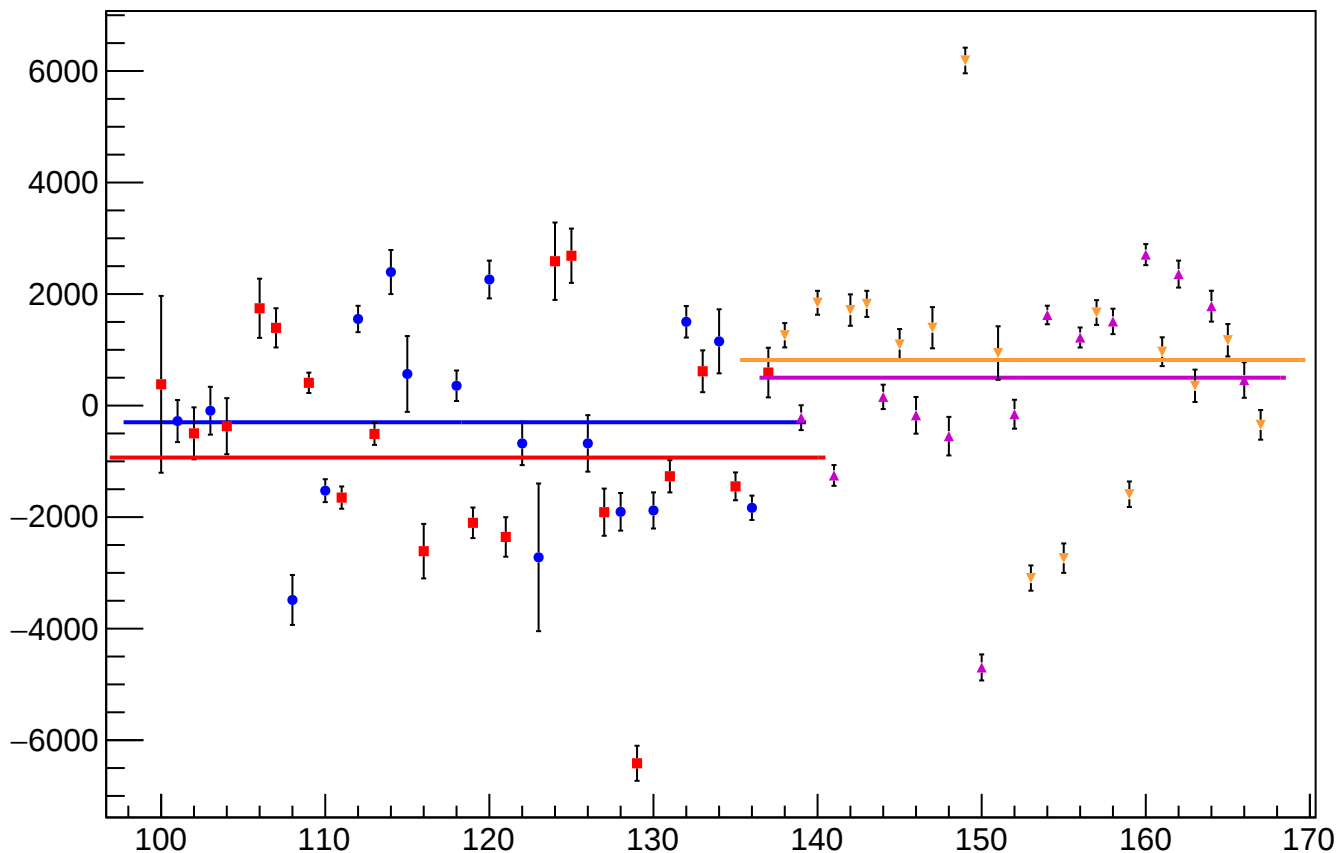
Right: 190.981 $\pm$ 0.039 χ^2 /NDF: 2334457.4/35

In: 195.847 $\pm$ 0.035 χ^2 /NDF: 1757849.6/30

Out: 202.498 $\pm$ 0.034 χ^2 /NDF: 2382638.6/34

All: 199.183 $\pm$ 0.024 χ^2 /NDF: 4159036.6/65

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 $\chi^2/\text{NDF}: 406.6/16$

Left Out: 817.215 ± 64.122 $\chi^2/\text{NDF}: 1232.1/15$

Right Out: -931.843 ± 72.751 $\chi^2/\text{NDF}: 614.8/18$

Left In: 499.978 ± 60.298 $\chi^2/\text{NDF}: 914.1/13$

Left: 648.855 ± 43.927 $\chi^2/\text{NDF}: 2159.2/29$

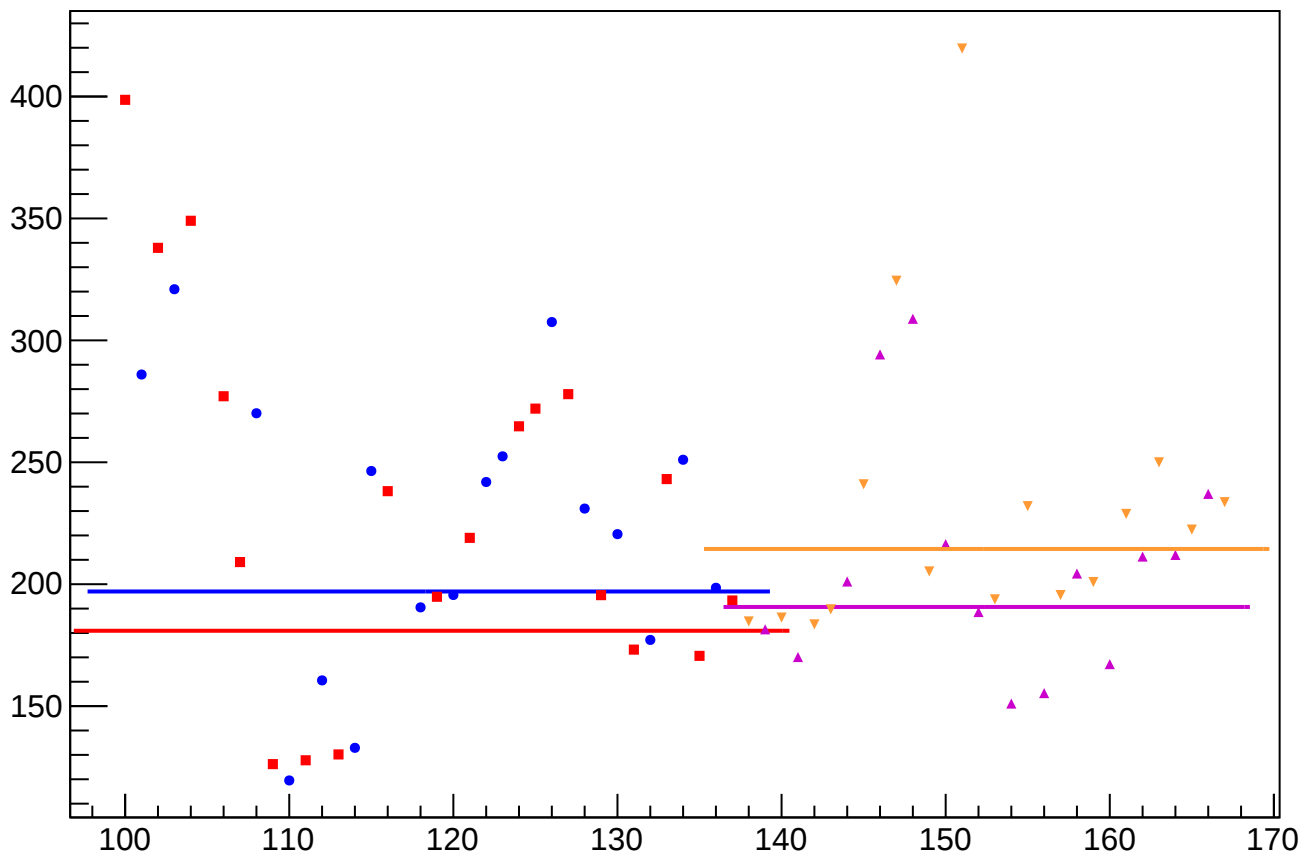
Right: -646.004 ± 53.873 $\chi^2/\text{NDF}: 1055.6/35$

In: 211.276 ± 48.188 $\chi^2/\text{NDF}: 1384.1/30$

Out: 52.510 ± 48.104 $\chi^2/\text{NDF}: 2172.2/34$

All: 131.756 ± 34.044 $\chi^2/\text{NDF}: 3561.8/65$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013 $\pm$ 0.057 χ^2/NDF : 911923.5/16

Left Out: 214.460 $\pm$ 0.045 χ^2/NDF : 777420.9/15

Right Out: 180.906 $\pm$ 0.051 χ^2/NDF : 1345685.7/18

Left In: 190.668 $\pm$ 0.043 χ^2/NDF : 785601.1/13

Left: 201.833 $\pm$ 0.031 χ^2/NDF : 1709154.8/29

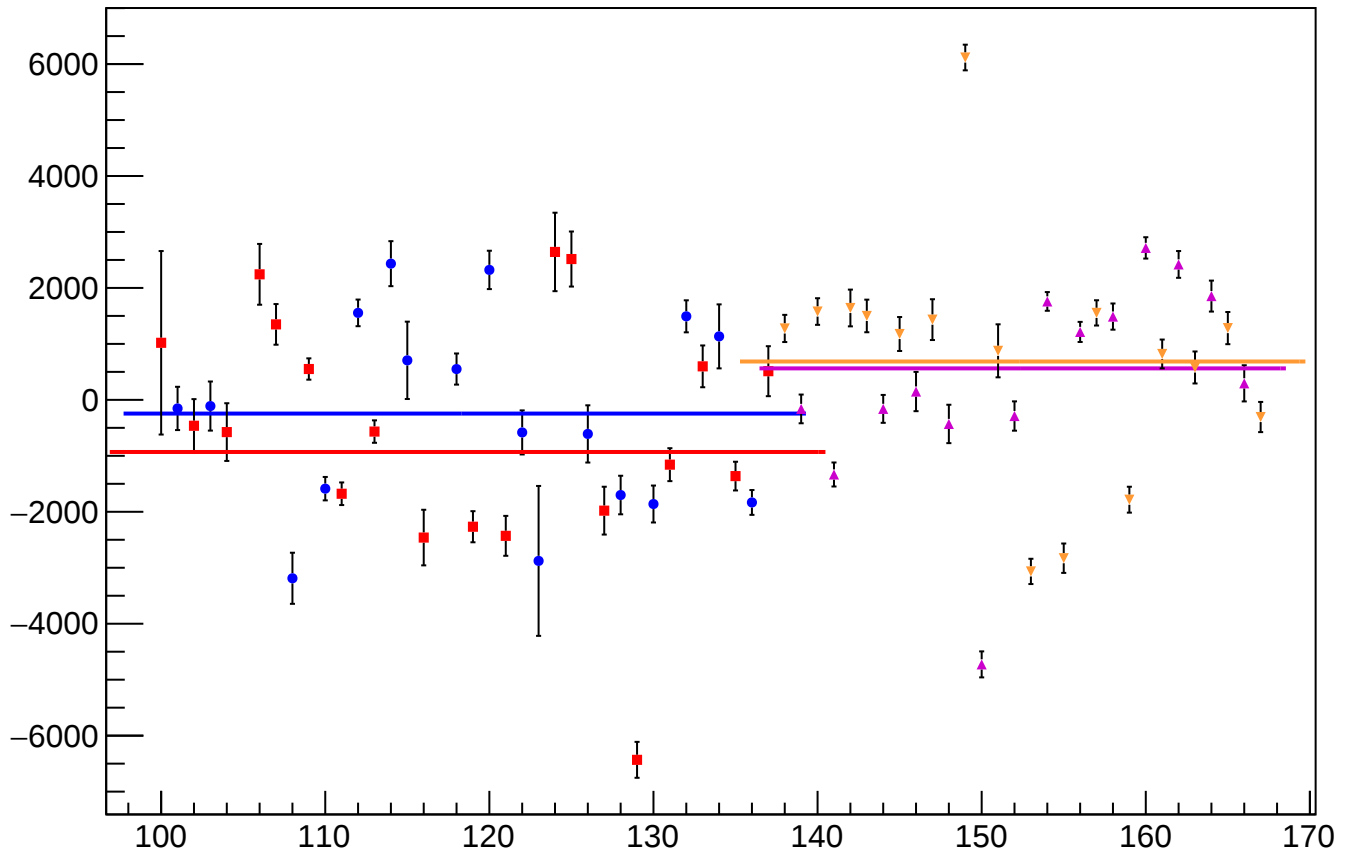
Right: 188.181 $\pm$ 0.038 χ^2/NDF : 2301888.8/35

In: 192.961 $\pm$ 0.034 χ^2/NDF : 1705529.0/30

Out: 199.790 $\pm$ 0.034 χ^2/NDF : 2362544.9/34

All: 196.381 $\pm$ 0.024 χ^2/NDF : 4088194.2/65

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925+/-81.395 χ^2/NDF : 391.4/16

Left Out: 685.446+/-66.941 χ^2/NDF :1206.0/15

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: 619.728+/-45.706 χ^2/NDF : 2131.1/29

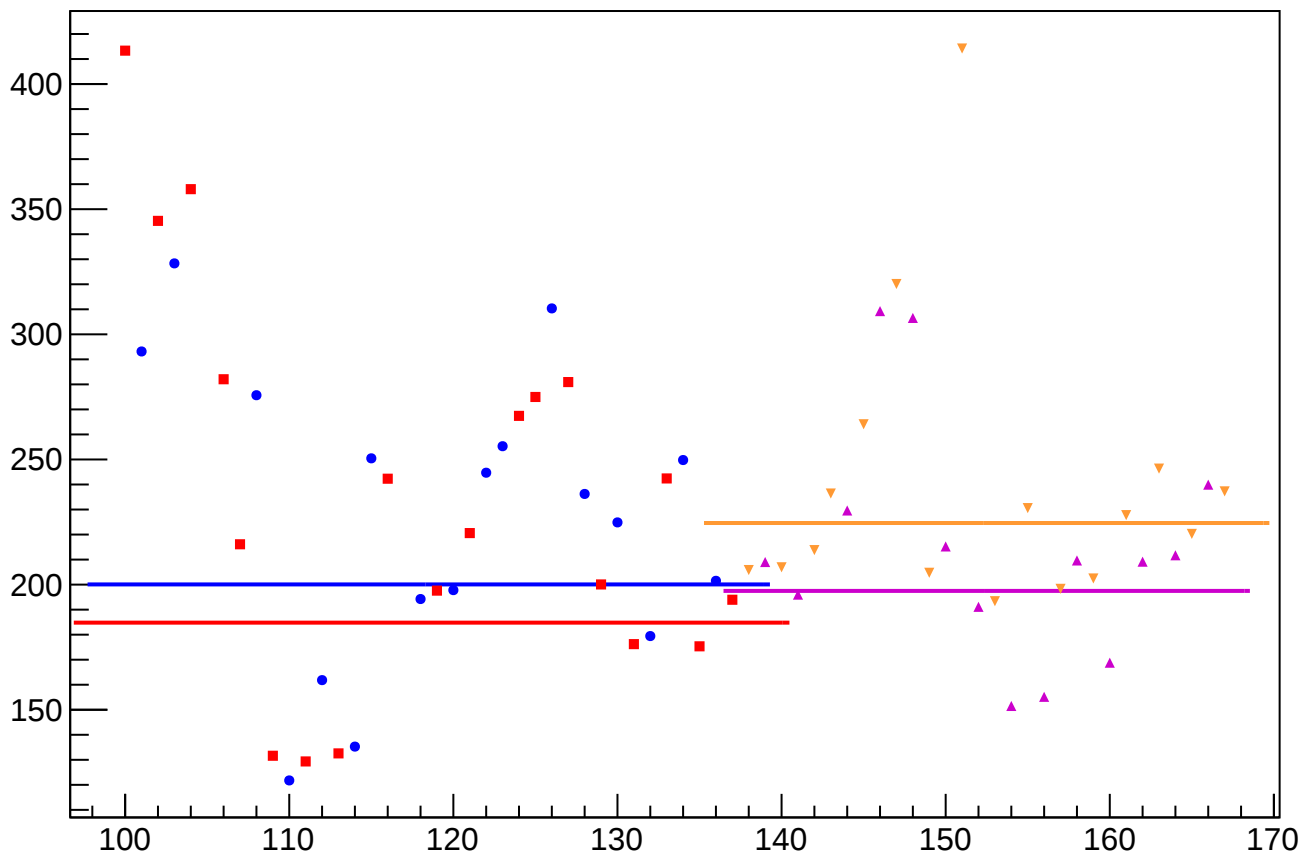
Right: -619.742+/-54.837 χ^2/NDF : 1040.0/35

In: 262.563+/-49.601 χ^2/NDF :1376.5/30

Out: -39.921+/-49.705 χ^2/NDF :2077.5/34

All: 111.639+/-35.110 χ^2/NDF : 3472.5/65

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 224.619+/-0.047 χ^2/NDF : 636566.0/15

Right Out: 184.807+/-0.052 χ^2/NDF : 1318267.6/18

Left In: 197.488+/-0.044 χ^2/NDF : 813451.2/13

Left: 210.136+/-0.032 χ^2/NDF : 1625388.1/29

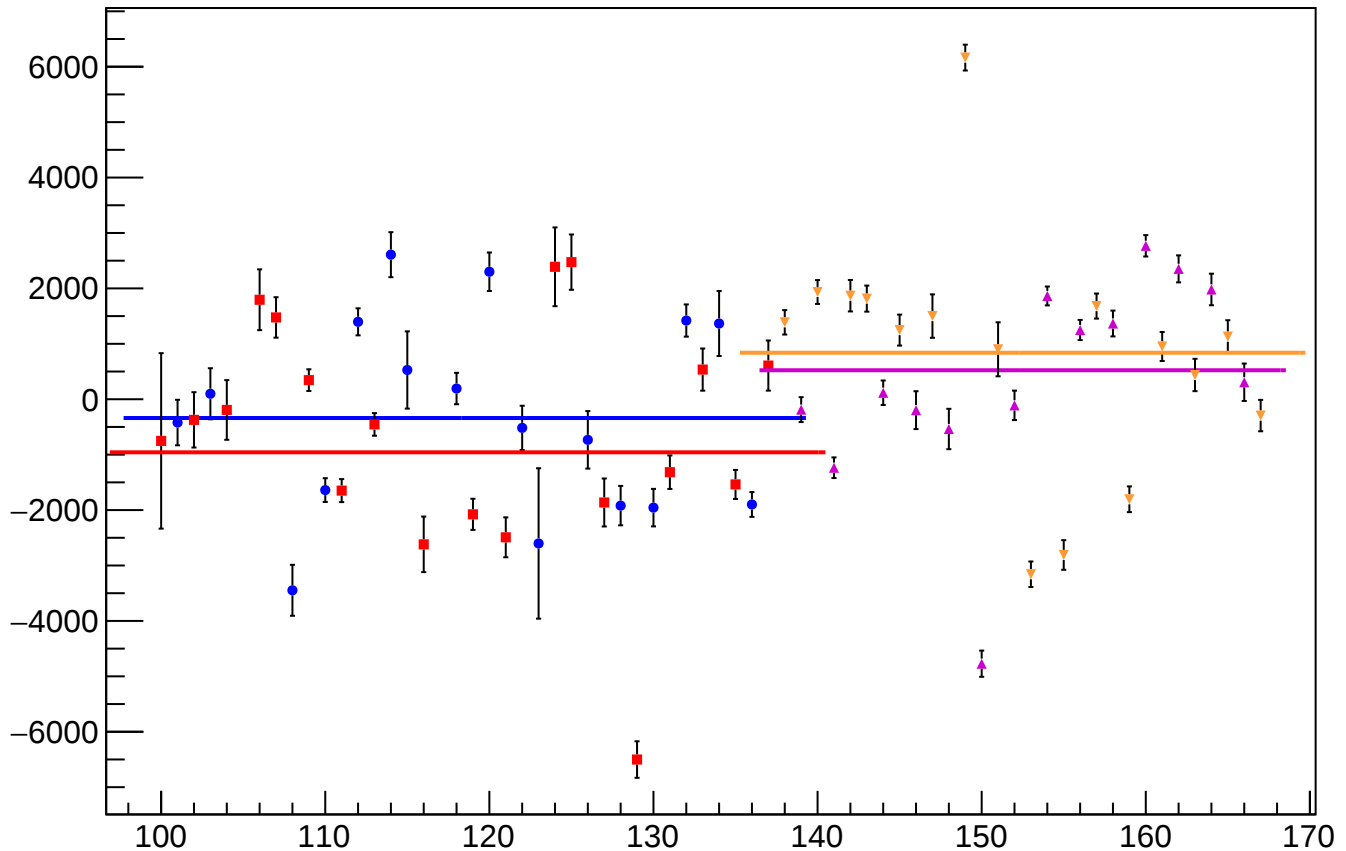
Right: 191.739+/-0.039 χ^2/NDF : 2275022.2/35

In: 198.450+/-0.035 χ^2/NDF : 1733033.8/30

Out: 206.757+/-0.035 χ^2/NDF : 2272218.1/34

All: 202.595+/-0.025 χ^2/NDF : 4033240.7/65

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966+/-83.123 χ^2/NDF : 389.5/16

Left Out: 839.029+/-65.115 χ^2/NDF :1239.8/15

Right Out: -957.615+/-75.749 χ^2/NDF : 570.3/18

Left In: 523.060+/-61.395 χ^2/NDF :932.4/13

Left: 671.761+/-44.670 χ^2/NDF : 2184.7/29

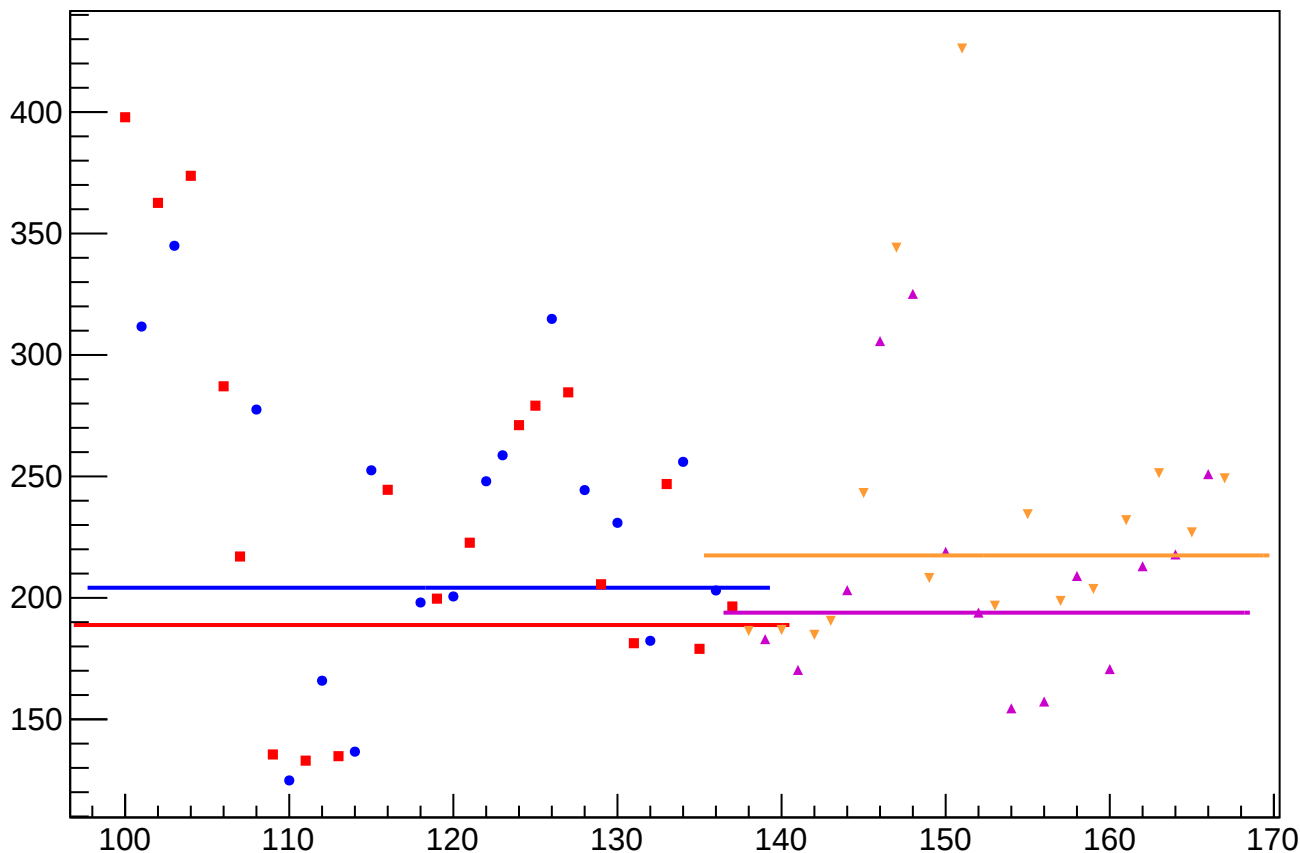
Right: -676.943+/-55.988 χ^2/NDF : 990.0/35

In: 218.787+/-49.385 χ^2/NDF :1391.5/30

Out: 75.569+/-49.378 χ^2/NDF :2133.6/34

All: 147.169+/-34.918 χ^2/NDF : 3529.3/65

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175 ± 0.059 $\chi^2/\text{NDF}: 947438.5/16$

Left Out: 217.475 ± 0.046 $\chi^2/\text{NDF}: 834635.4/15$

Right Out: 188.821 ± 0.054 $\chi^2/\text{NDF}: 1314891.2/18$

Left In: 193.908 ± 0.043 $\chi^2/\text{NDF}: 845387.6/13$

Left: 204.999 ± 0.032 $\chi^2/\text{NDF}: 1818714.0/29$

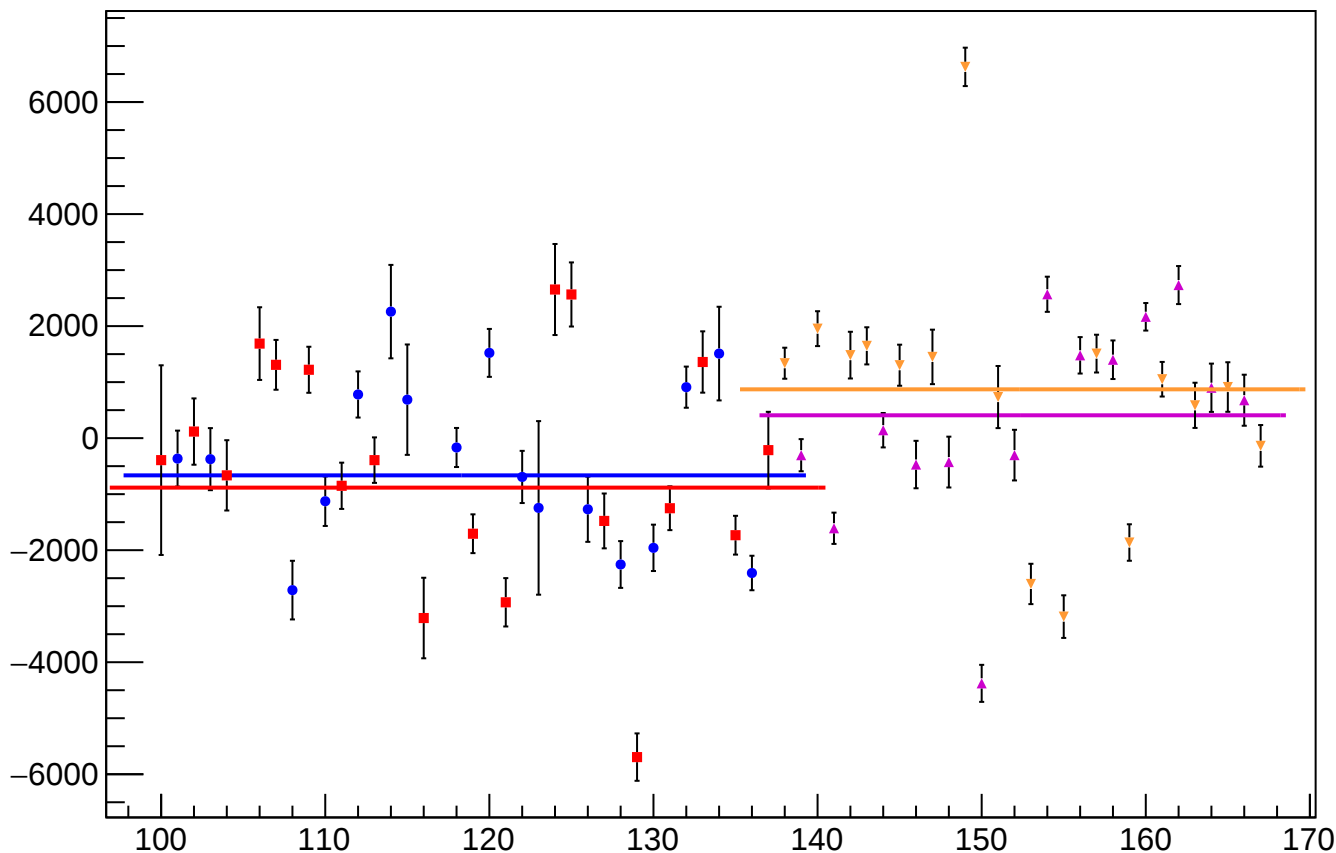
Right: 195.787 ± 0.040 $\chi^2/\text{NDF}: 2299610.3/35$

In: 197.532 ± 0.035 $\chi^2/\text{NDF}: 1812569.1/30$

Out: 205.299 ± 0.035 $\chi^2/\text{NDF}: 2314102.1/34$

All: 201.416 ± 0.025 $\chi^2/\text{NDF}: 4151409.0/65$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383+/-113.949 χ^2/NDF : 154.3/16

Left Out: 871.390+/-90.009 χ^2/NDF :596.4/15

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: 639.580+/-63.634 χ^2/NDF : 1054.8/29

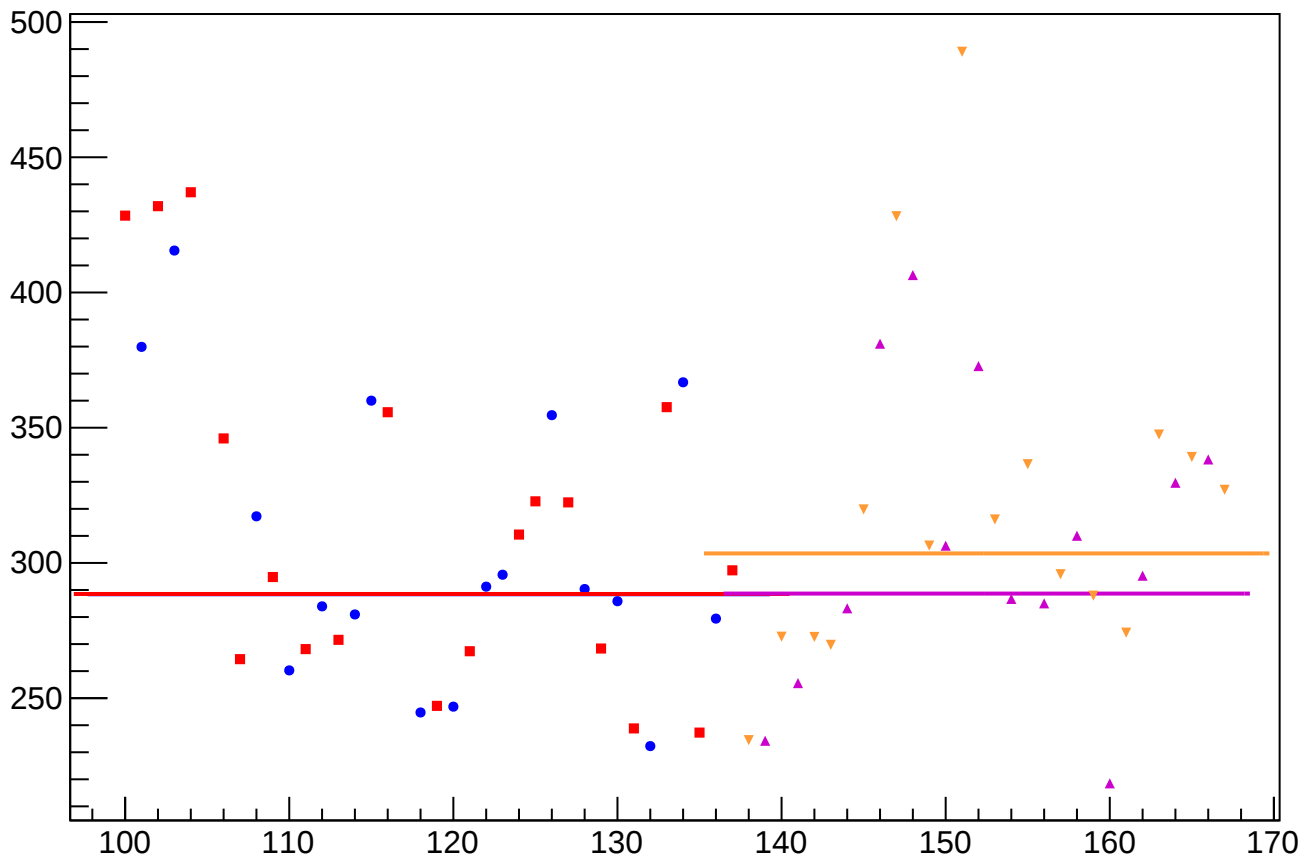
Right: -776.811+/-79.465 χ^2/NDF : 476.3/35

In: -3.860+/-70.614 χ^2/NDF :654.1/30

Out: 174.373+/-69.881 χ^2/NDF :1067.4/34

All: 86.187+/-49.671 χ^2/NDF : 1724.7/65

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 ± 0.081 $\chi^2/\text{NDF}: 339820.0/16$

Left Out: 303.520 ± 0.064 $\chi^2/\text{NDF}: 620721.1/15$

Right Out: 288.522 ± 0.078 $\chi^2/\text{NDF}: 455410.1/18$

Left In: 288.672 ± 0.064 $\chi^2/\text{NDF}: 619247.7/13$

Left: 296.093 ± 0.045 $\chi^2/\text{NDF}: 1267189.1/29$

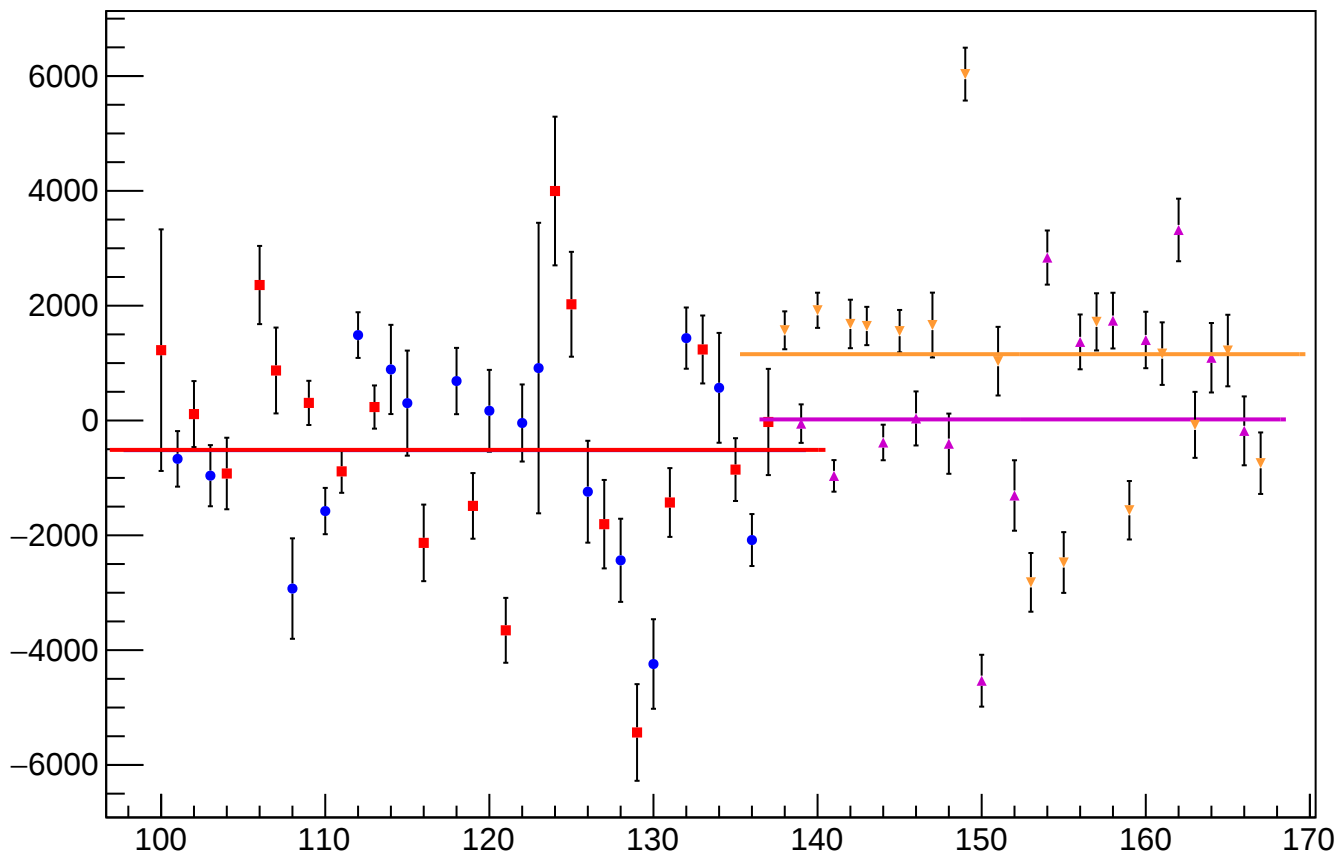
Right: 288.476 ± 0.056 $\chi^2/\text{NDF}: 795230.9/35$

In: 288.579 ± 0.050 $\chi^2/\text{NDF}: 959073.4/30$

Out: 297.562 ± 0.049 $\chi^2/\text{NDF}: 1098188.6/34$

All: 293.117 ± 0.035 $\chi^2/\text{NDF}: 2073615.3/65$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894±147.326 χ^2/NDF : 108.0/16

Left Out: 1155.243±111.697 χ^2/NDF : 280.1/15

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: 608.417±80.446 χ^2/NDF : 555.4/29

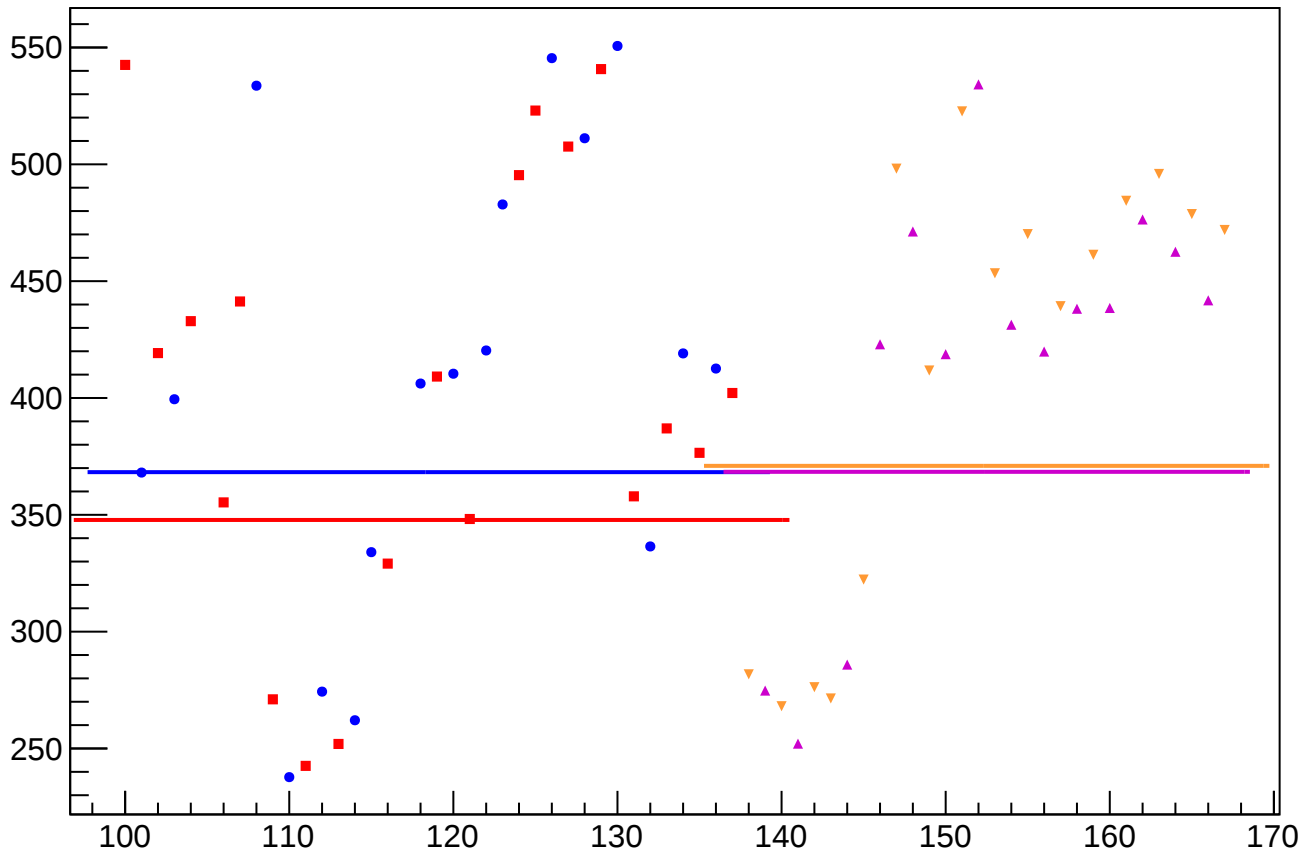
Right: -513.708±99.851 χ^2/NDF : 249.3/35

In: -185.575±91.120 χ^2/NDF : 341.7/30

Out: 482.517±86.265 χ^2/NDF : 511.3/34

All: 166.743±62.645 χ^2/NDF : 881.3/65

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264 $\pm$ 0.104 χ^2 /NDF: 770116.6/16

Left Out: 370.957 $\pm$ 0.079 χ^2 /NDF:1465901.5/15

Right Out: 347.802 $\pm$ 0.096 χ^2 /NDF: 821862.5/18

Left In: 368.398 $\pm$ 0.082 χ^2 /NDF:1227687.7/13

Left: 369.726 $\pm$ 0.057 χ^2 /NDF: 2694094.4/29

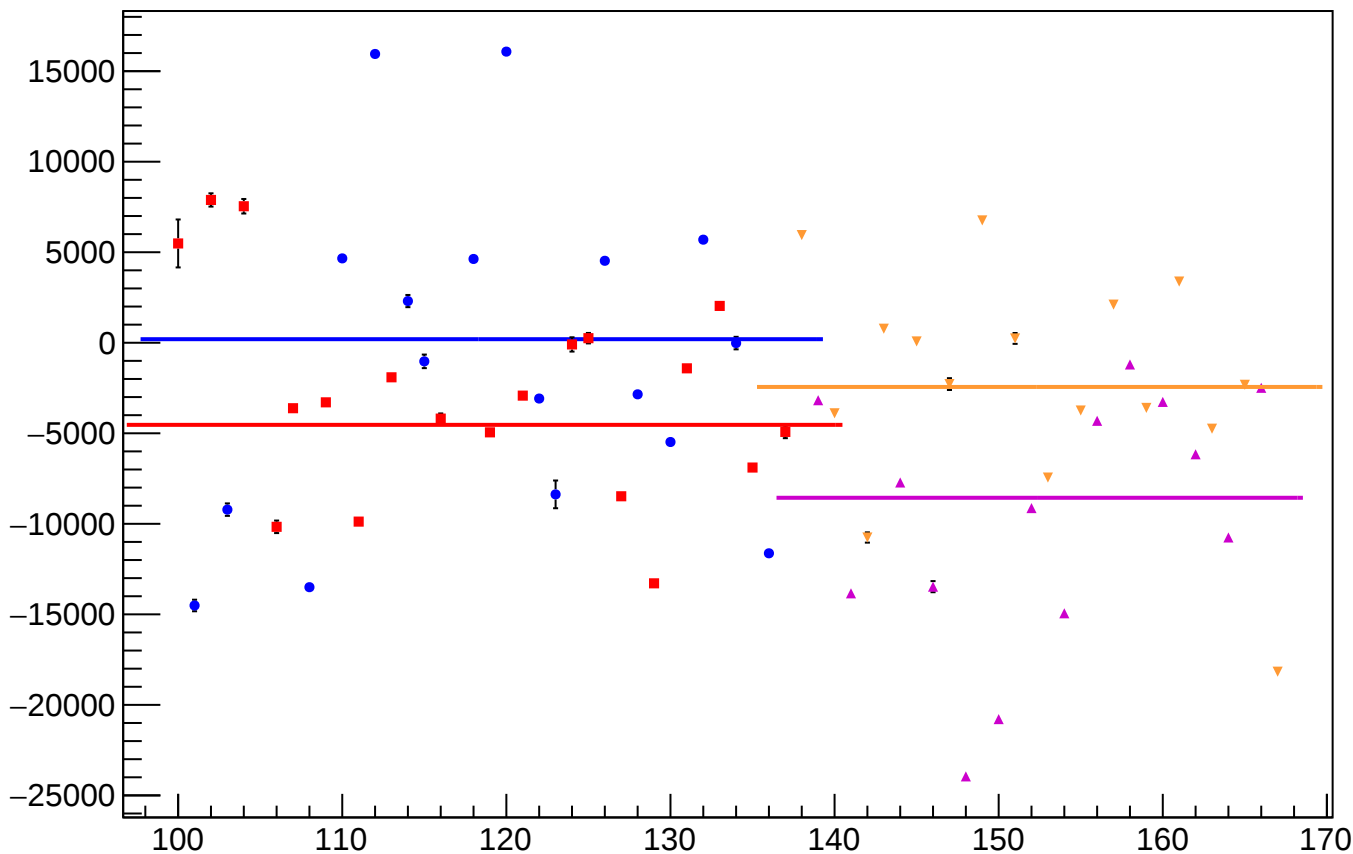
Right: 357.201 $\pm$ 0.071 χ^2 /NDF: 1612837.5/35

In: 368.347 $\pm$ 0.064 χ^2 /NDF:1997805.3/30

Out: 361.613 $\pm$ 0.061 χ^2 /NDF:2322446.8/34

All: 364.796 $\pm$ 0.044 χ^2 /NDF: 4326011.8/65

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 $\pm$ 54.799 χ^2/NDF : 30658.3/16

Left Out: -2440.246 $\pm$ 50.525 χ^2/NDF :13671.5/15

Right Out: -4534.200 $\pm$ 52.462 χ^2/NDF : 7477.2/18

Left In: -8561.623 $\pm$ 53.501 χ^2/NDF :14756.2/13

Left: -5325.926 $\pm$ 36.734 χ^2/NDF : 35347.4/29

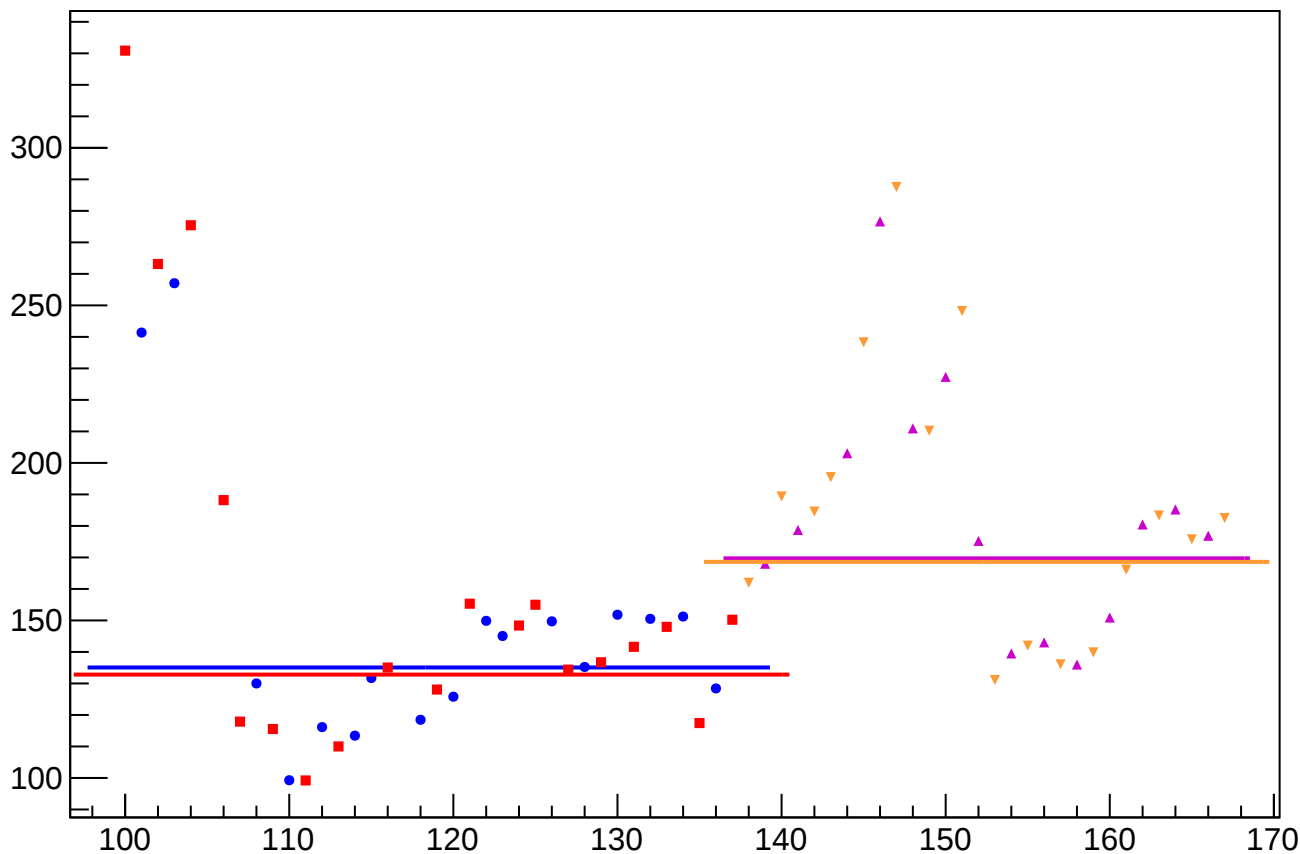
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4287.189 $\pm$ 38.282 χ^2/NDF :58493.8/30

Out: -3447.859 $\pm$ 36.392 χ^2/NDF :21975.3/34

All: -3846.298 $\pm$ 26.376 χ^2/NDF : 80721.6/65

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 168.591 $\pm$ 0.036 χ^2 /NDF: 1012860.5/15

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 169.710 $\pm$ 0.038 χ^2 /NDF: 731116.7/13

Left: 169.118 $\pm$ 0.026 χ^2 /NDF: 1744440.1/29

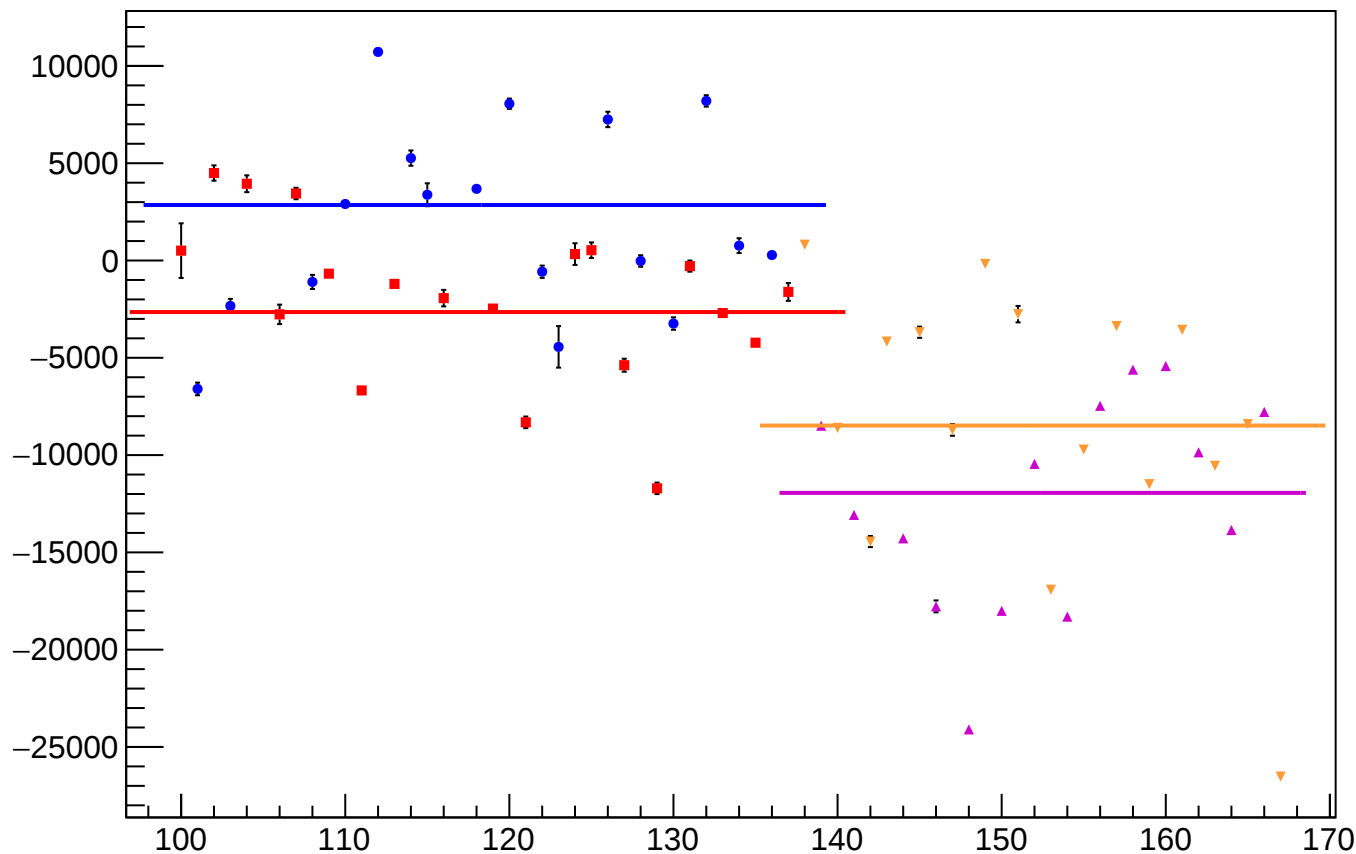
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 152.806 $\pm$ 0.027 χ^2 /NDF: 1798947.3/30

Out: 151.376 $\pm$ 0.026 χ^2 /NDF: 2326543.1/34

All: 152.055 $\pm$ 0.019 χ^2 /NDF: 4126956.1/65

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -8482.959+/-57.447 χ^2/NDF :15098.2/15

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: -10327.381+/-39.250 χ^2/NDF : 26731.7/29

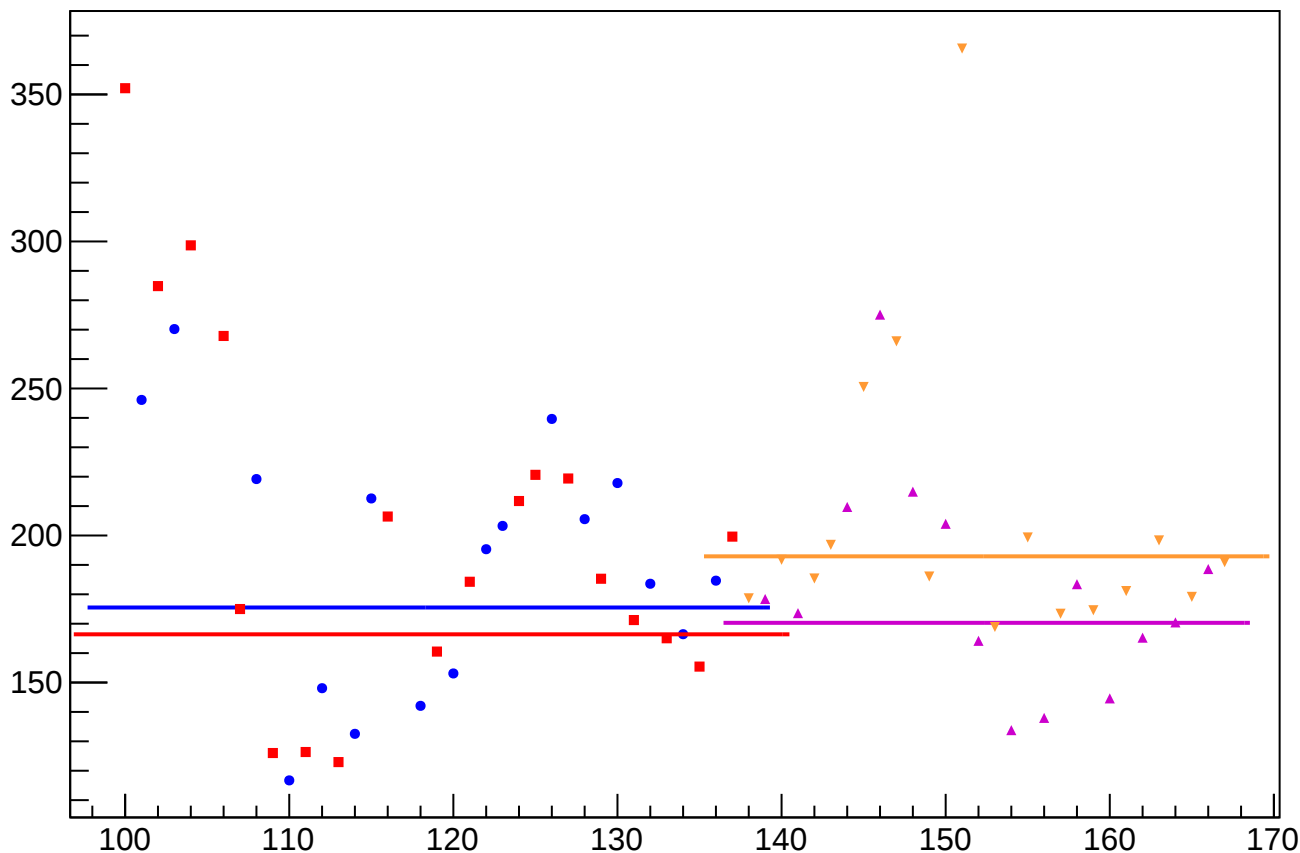
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6528.512+/-42.801 χ^2/NDF :41597.6/30

Out: -5956.617+/-43.255 χ^2/NDF :22739.8/34

All: -6245.582+/-30.424 χ^2/NDF : 64425.7/65

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 192.912 $\pm$ 0.041 χ^2 /NDF: 628067.8/15

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 170.300 $\pm$ 0.038 χ^2 /NDF: 686292.8/13

Left: 180.855 $\pm$ 0.028 χ^2 /NDF: 1479569.1/29

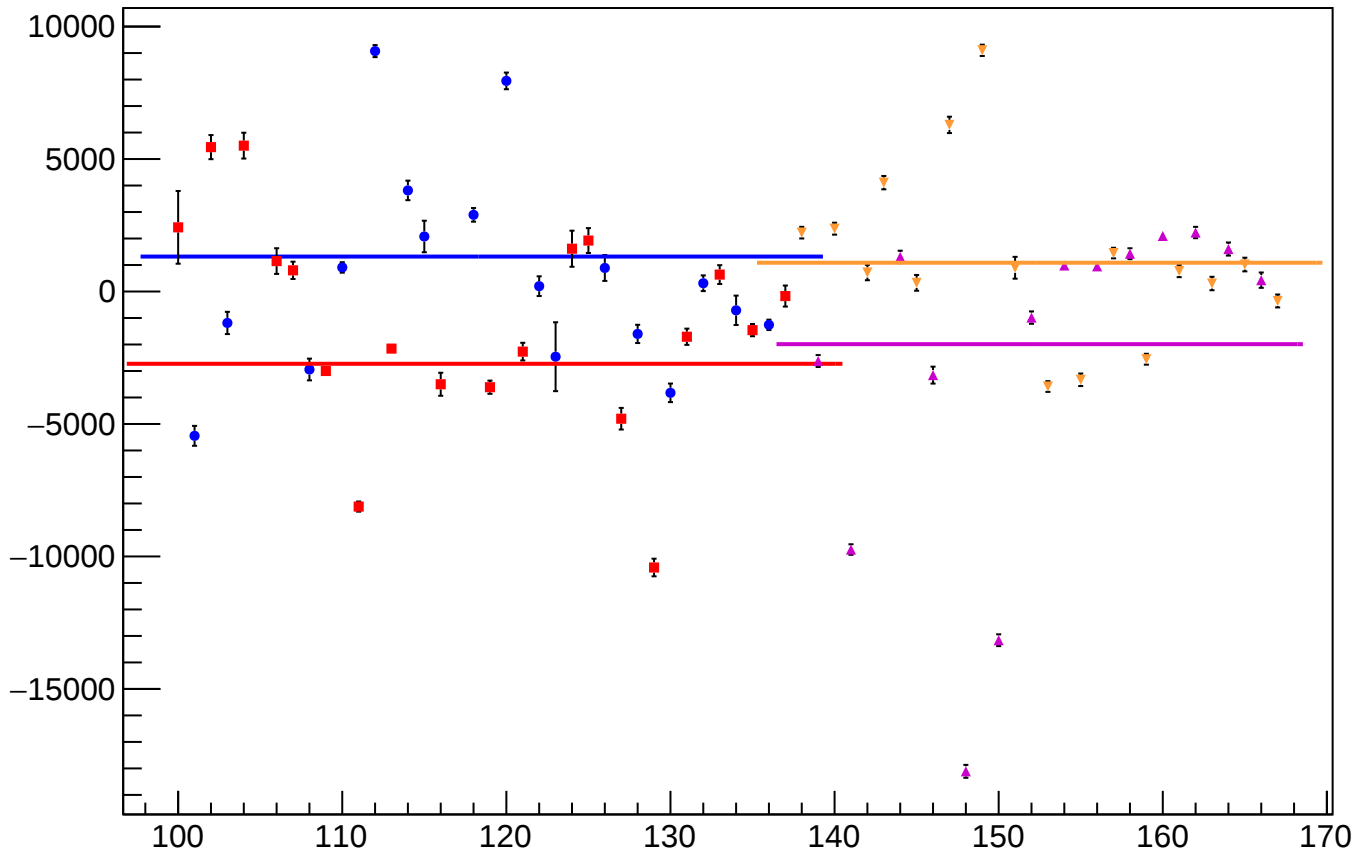
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 172.208 $\pm$ 0.030 χ^2 /NDF: 1382821.2/30

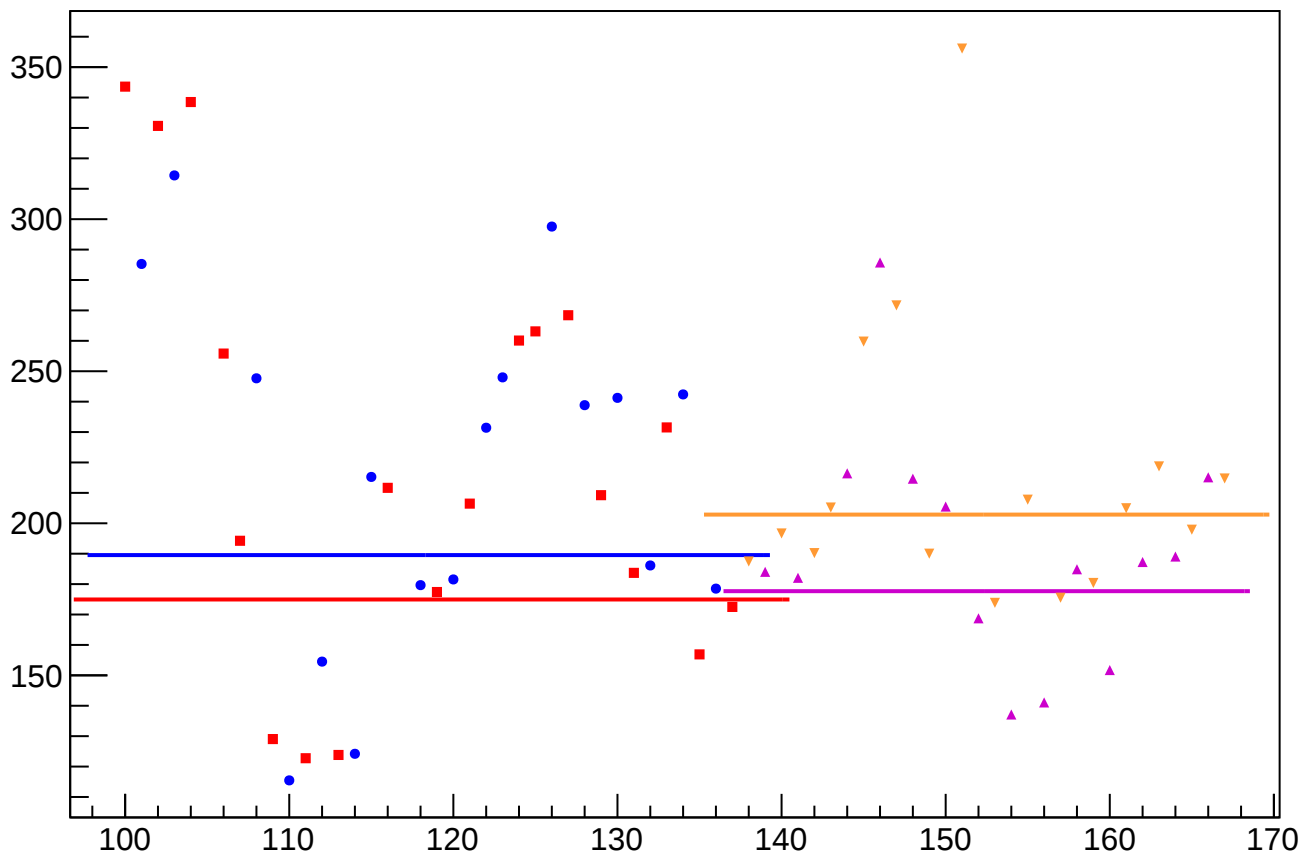
Out: 181.428 $\pm$ 0.031 χ^2 /NDF: 1742165.0/34

All: 176.769 $\pm$ 0.022 χ^2 /NDF: 3170893.0/65

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 202.860+/-0.043 χ^2/NDF : 587933.9/15

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 177.677+/-0.040 χ^2/NDF : 700581.7/13

Left: 189.354+/-0.029 χ^2/NDF : 1475148.9/29

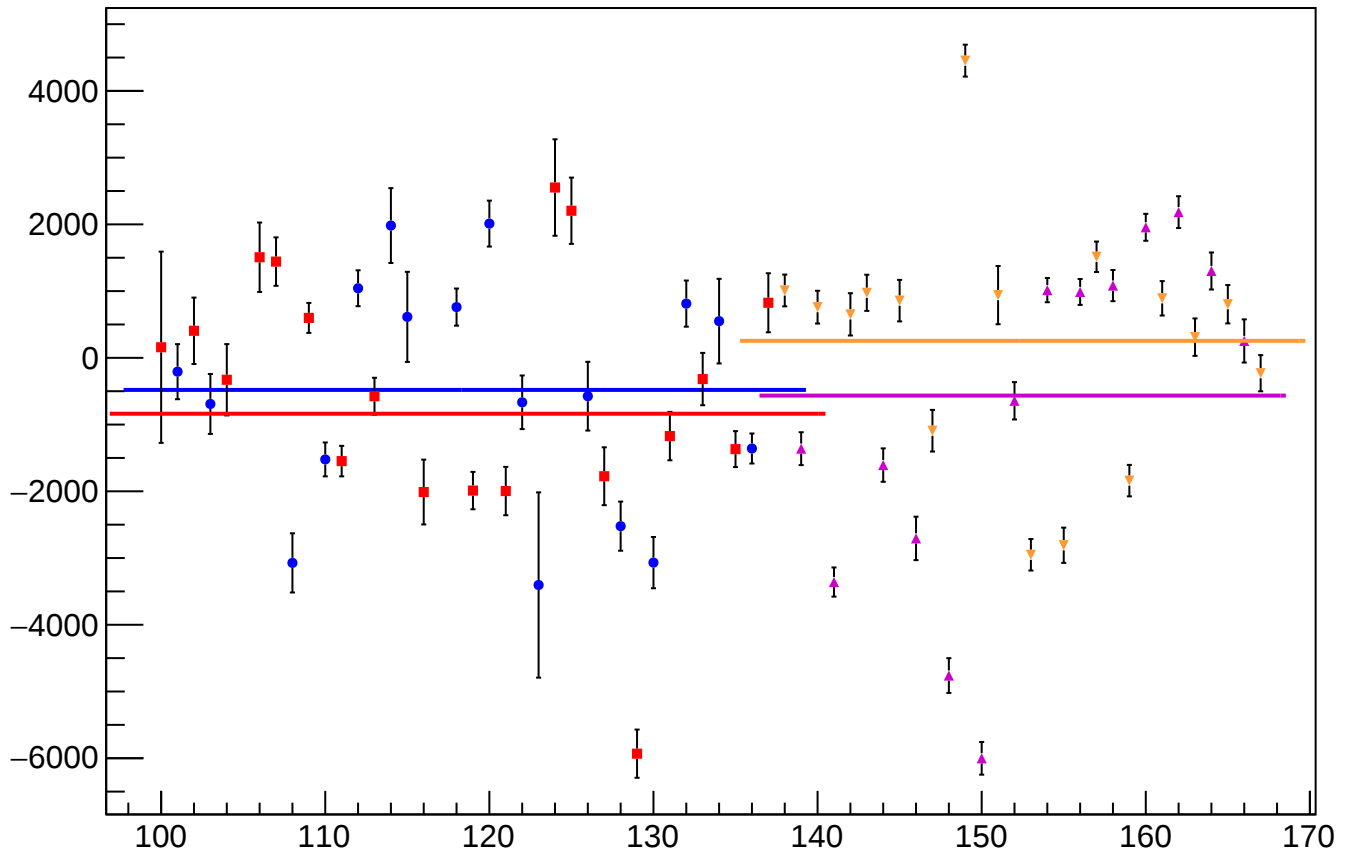
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 181.785+/-0.032 χ^2/NDF : 1712269.7/30

Out: 190.958+/-0.032 χ^2/NDF : 2067363.3/34

All: 186.338+/-0.023 χ^2/NDF : 3820169.8/65

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 254.970 ± 66.806 χ^2/NDF : 797.2/15

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: -175.408 ± 46.075 χ^2/NDF : 2393.1/29

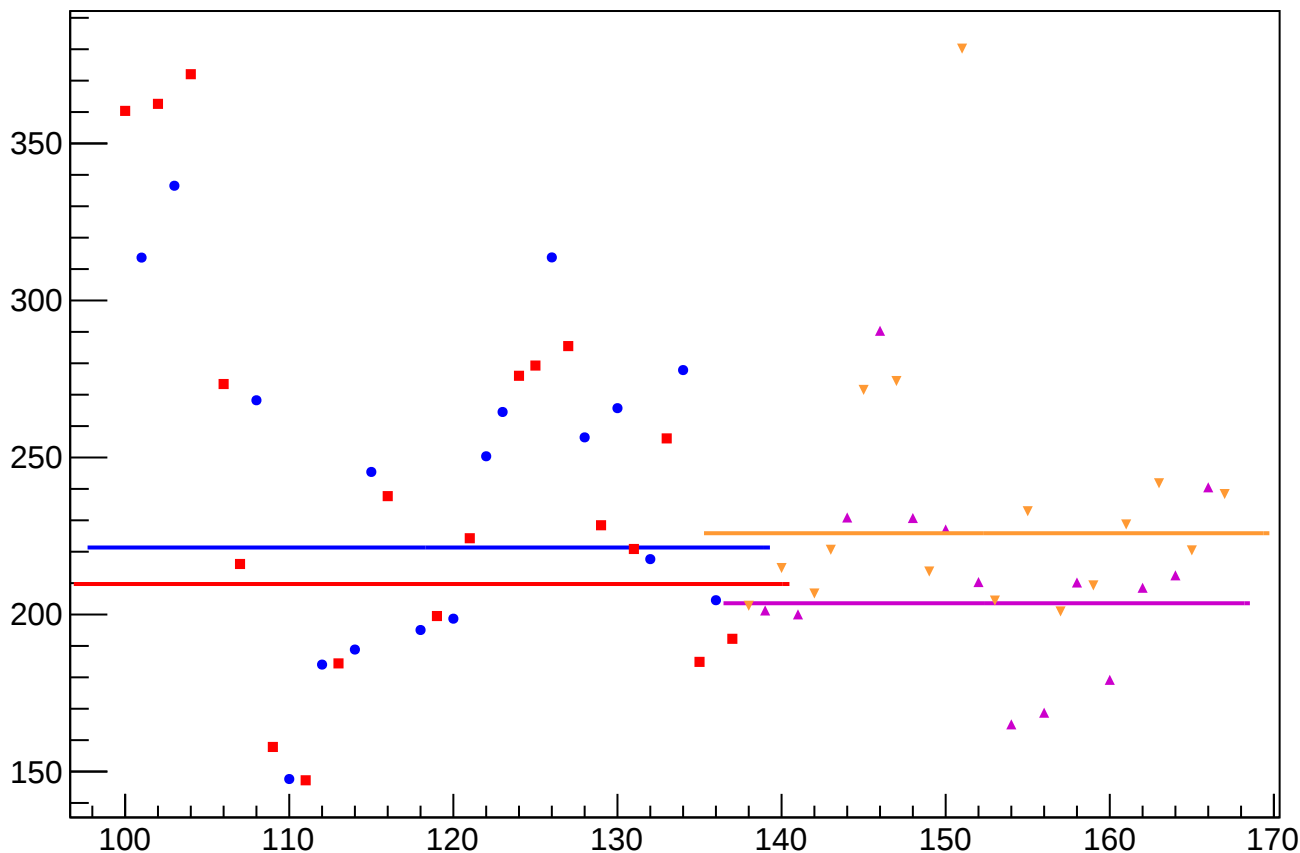
Right: -672.351 ± 60.290 χ^2/NDF : 734.7/35

In: -536.852 ± 51.691 χ^2/NDF : 1808.1/30

Out: -179.294 ± 51.854 χ^2/NDF : 1338.8/34

All: -358.636 ± 36.609 χ^2/NDF : 3170.8/65

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2/NDF : 645688.1/16

Left Out: 225.888 $\pm$ 0.047 χ^2/NDF : 440939.8/15

Right Out: 209.717 $\pm$ 0.058 χ^2/NDF : 883917.7/18

Left In: 203.590 $\pm$ 0.045 χ^2/NDF : 422645.2/13

Left: 214.197 $\pm$ 0.033 χ^2/NDF : 980403.9/29

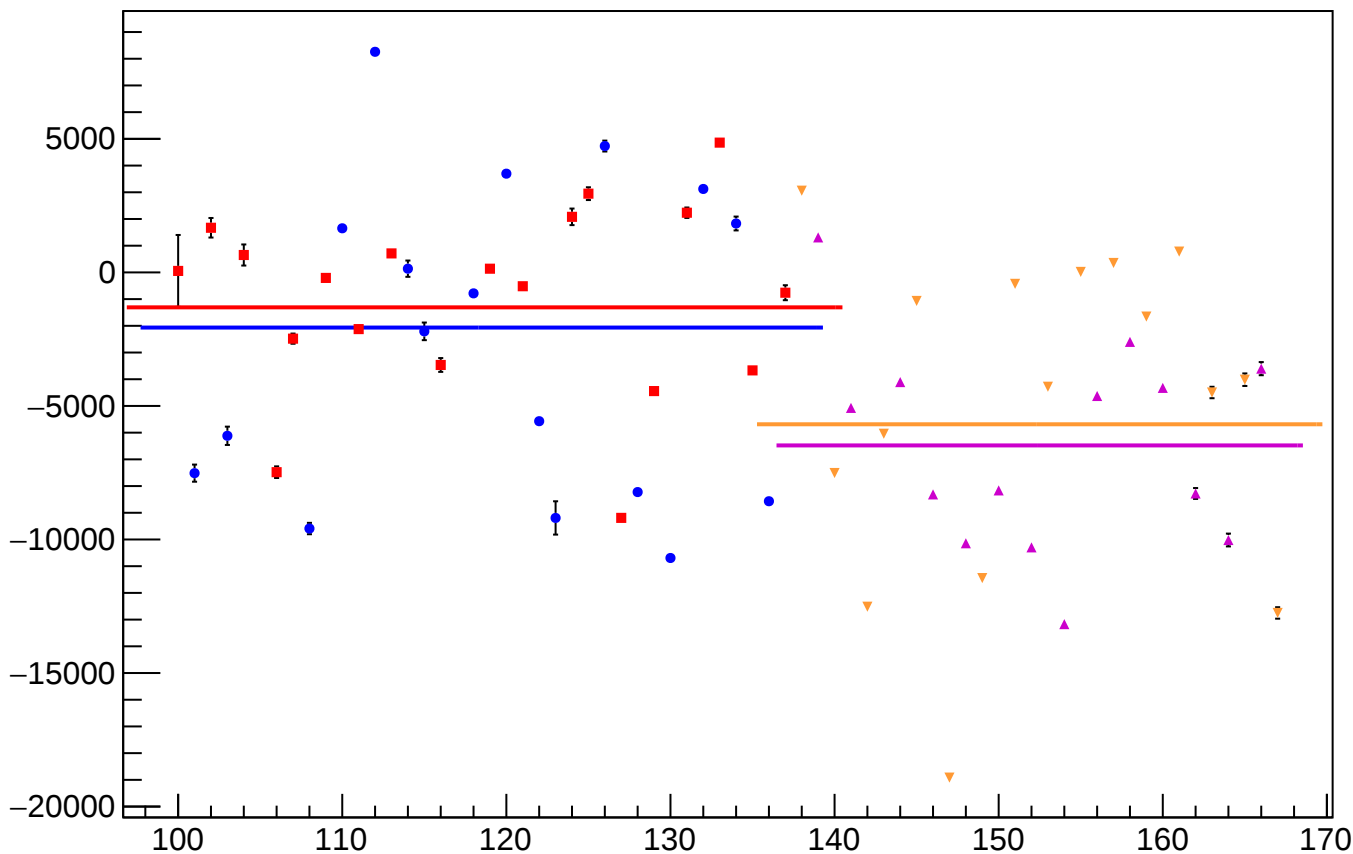
Right: 215.095 $\pm$ 0.043 χ^2/NDF : 1548093.3/35

In: 209.627 $\pm$ 0.037 χ^2/NDF : 1121268.5/30

Out: 219.459 $\pm$ 0.037 χ^2/NDF : 1371443.8/34

All: 214.528 $\pm$ 0.026 χ^2/NDF : 2528777.4/65

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -5686.485 $\pm$ 37.391 χ^2/NDF : 29316.8/15

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -6478.135 $\pm$ 38.921 χ^2/NDF : 9102.2/13

Left: -6066.439 $\pm$ 26.964 χ^2/NDF : 38634.2/29

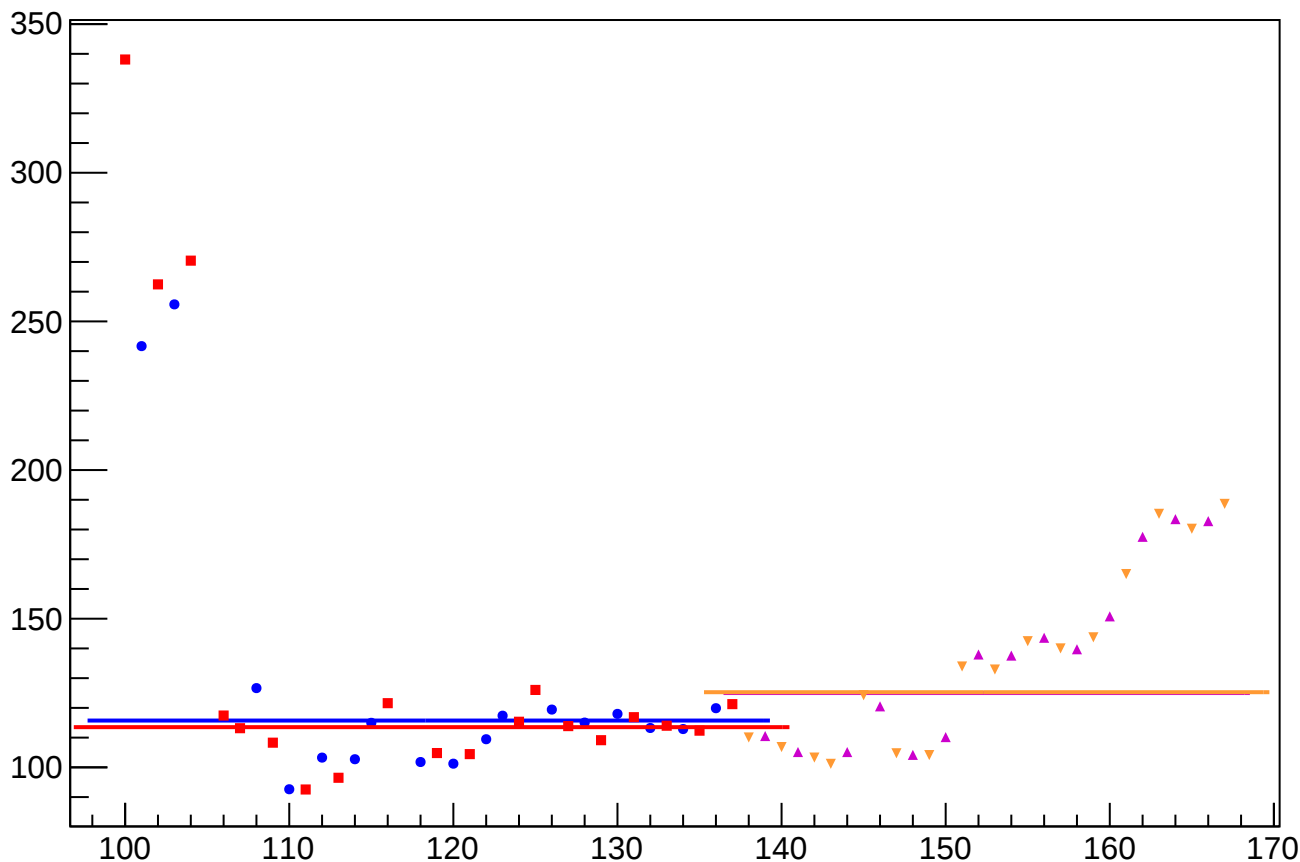
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4697.470 $\pm$ 30.060 χ^2/NDF : 30822.8/30

Out: -3898.457 $\pm$ 28.759 χ^2/NDF : 40810.3/34

All: -4280.298 $\pm$ 20.780 χ^2/NDF : 72002.0/65

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 125.275+/-0.026 χ^2/NDF : 917634.8/15

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: 125.142+/-0.019 χ^2/NDF : 1635879.9/29

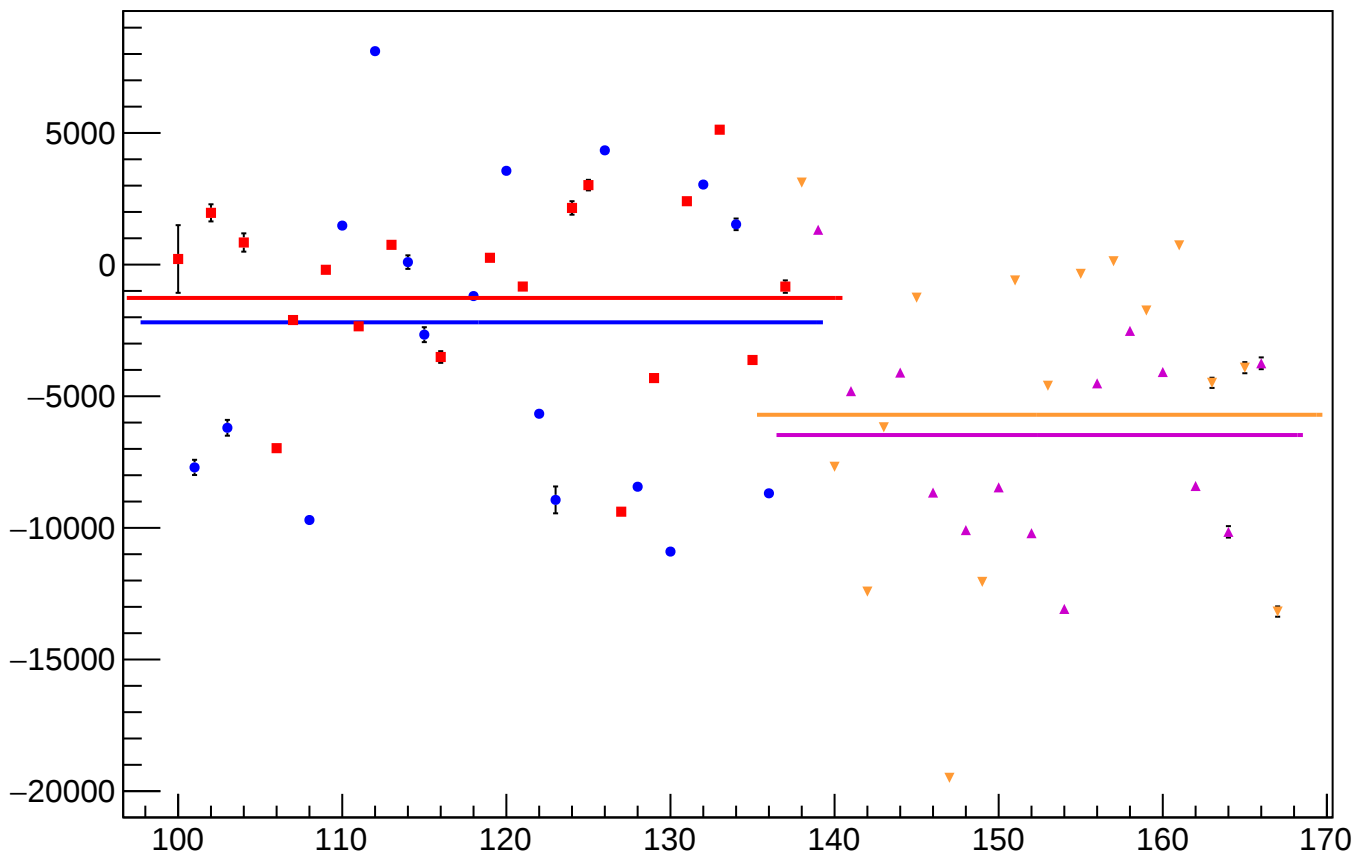
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 121.262+/-0.021 χ^2/NDF : 1507859.2/30

Out: 120.474+/-0.020 χ^2/NDF : 1795027.0/34

All: 120.851+/-0.015 χ^2/NDF : 3303604.2/65

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 ± 39.944 $\chi^2/\text{NDF}: 22813.5/16$

Left Out: -5704.076 ± 33.832 $\chi^2/\text{NDF}: 35788.2/15$

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: -6068.652 ± 24.538 $\chi^2/\text{NDF}: 47387.0/29$

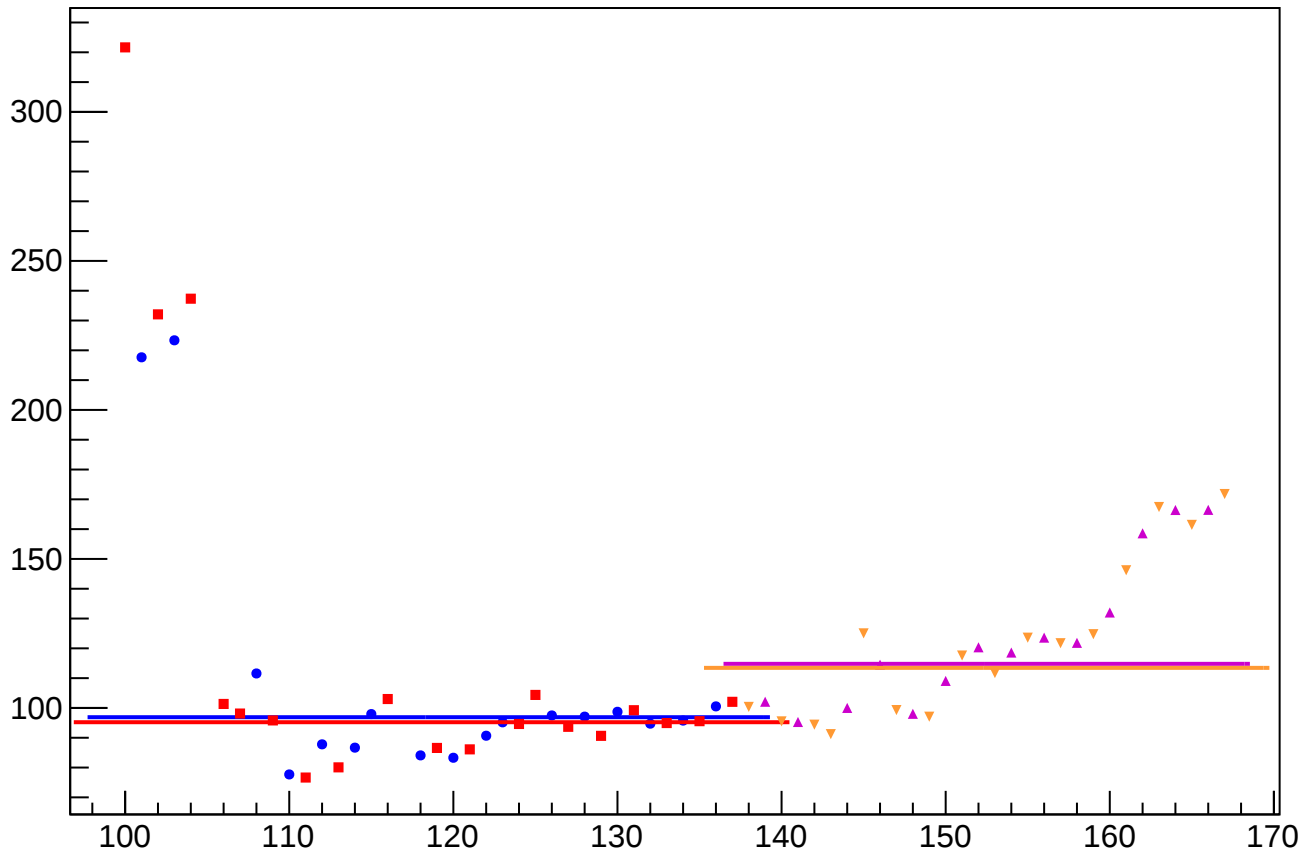
Right: -1706.759 ± 27.550 $\chi^2/\text{NDF}: 31645.9/35$

In: -4575.597 ± 26.595 $\chi^2/\text{NDF}: 40561.9/30$

Out: -3744.556 ± 25.282 $\chi^2/\text{NDF}: 51936.3/34$

All: -4139.069 ± 18.324 $\chi^2/\text{NDF}: 93011.1/65$

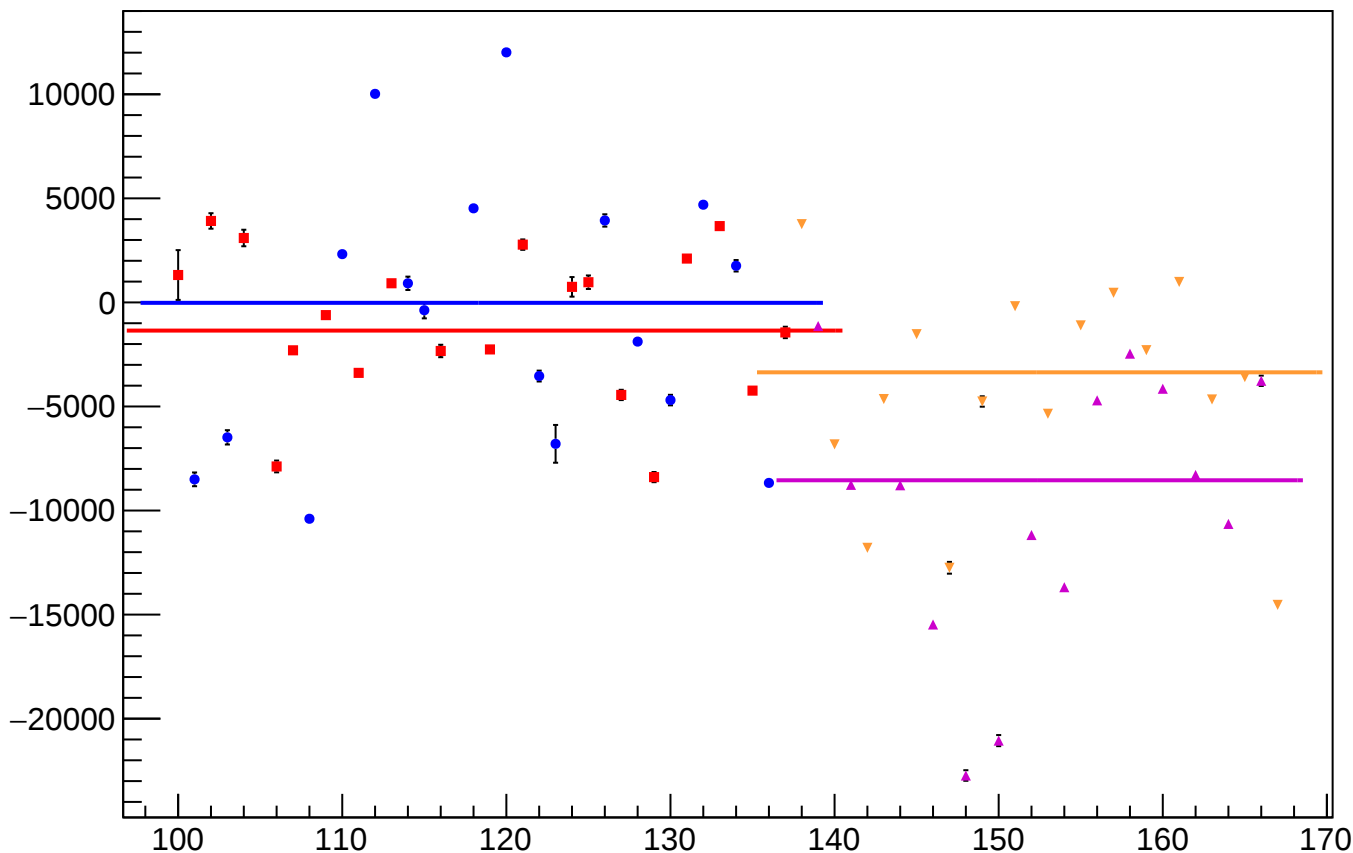
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894 ± 0.028 $\chi^2/\text{NDF}: 817229.9/16$
 Left Out: 113.452 ± 0.024 $\chi^2/\text{NDF}: 824669.3/15$
 Right Out: 95.213 ± 0.027 $\chi^2/\text{NDF}: 859809.7/18$
 Left In: 114.800 ± 0.025 $\chi^2/\text{NDF}: 556567.4/13$

Left: 114.091 ± 0.017 $\chi^2/\text{NDF}: 1382743.0/29$
 Right: 96.013 ± 0.019 $\chi^2/\text{NDF}: 1678895.4/35$
 In: 106.862 ± 0.019 $\chi^2/\text{NDF}: 1597549.2/30$
 Out: 105.399 ± 0.018 $\chi^2/\text{NDF}: 1941110.2/34$
 All: 106.094 ± 0.013 $\chi^2/\text{NDF}: 3541842.4/65$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -3359.105 ± 47.038 $\chi^2/\text{NDF}: 9513.8/15$

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: -5765.469 ± 34.440 $\chi^2/\text{NDF}: 27561.5/29$

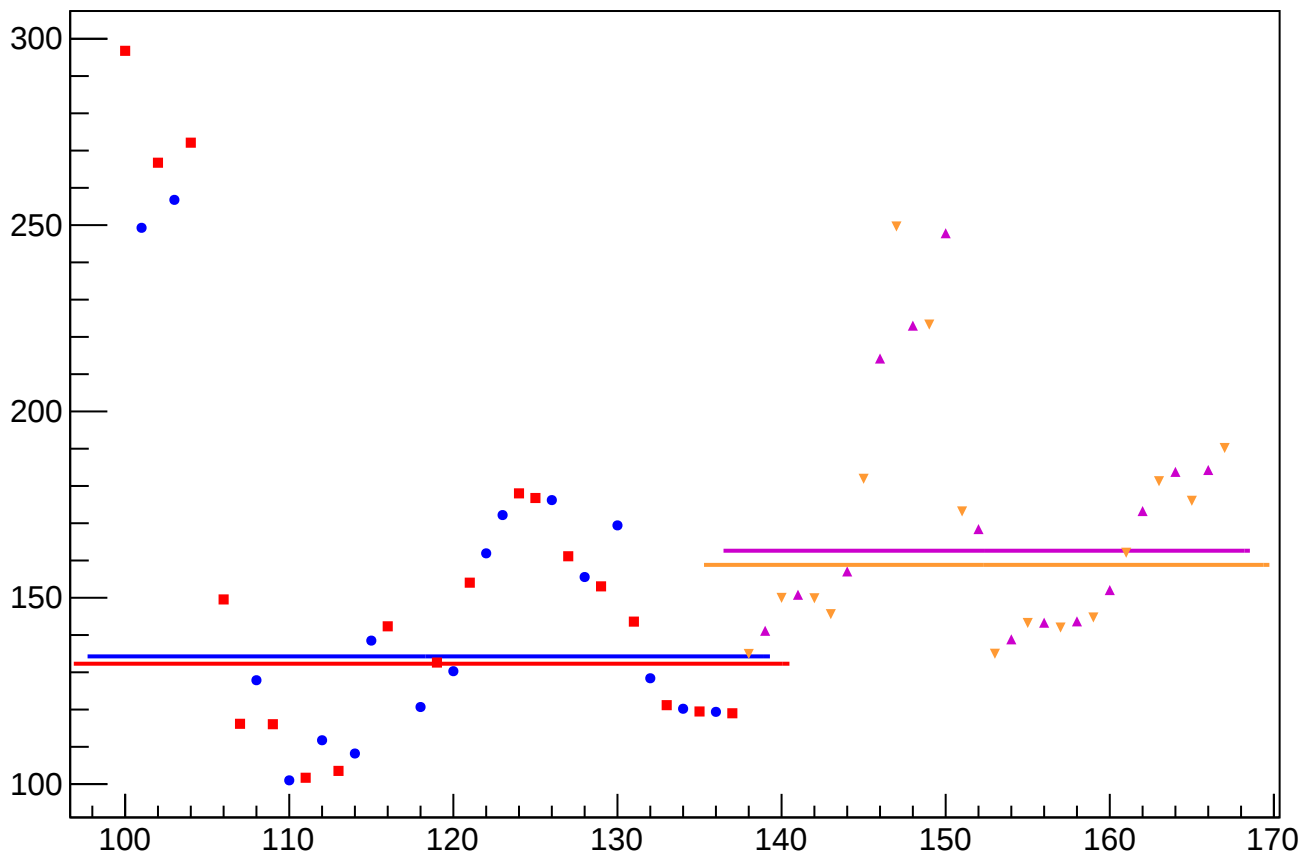
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4613.133 ± 37.113 $\chi^2/\text{NDF}: 41883.0/30$

Out: -2463.482 ± 34.994 $\chi^2/\text{NDF}: 14162.8/34$

All: -3475.191 ± 25.461 $\chi^2/\text{NDF}: 57821.8/65$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 158.826 $\pm$ 0.033 χ^2 /NDF: 620590.4/15

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: 160.587 $\pm$ 0.024 χ^2 /NDF: 1230898.2/29

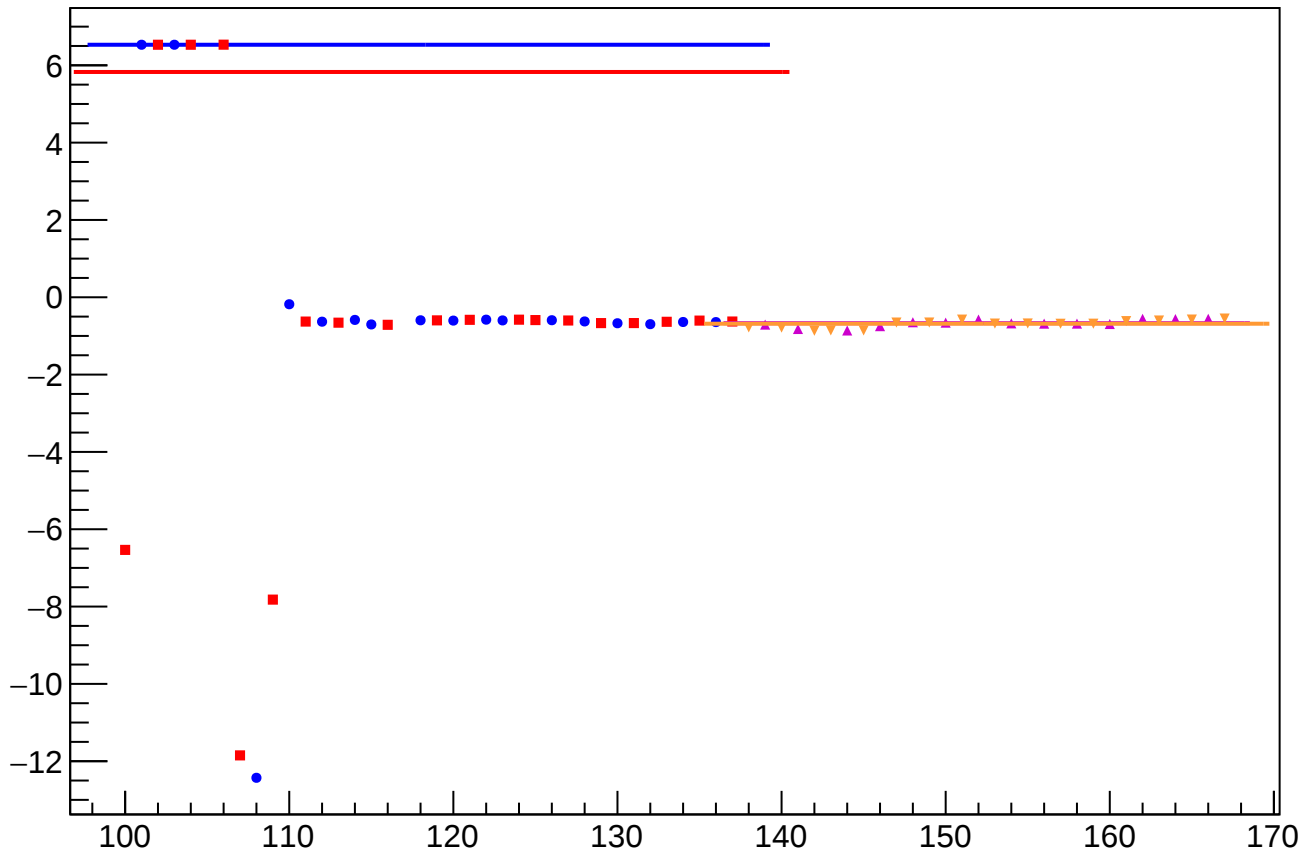
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 149.543 $\pm$ 0.026 χ^2 /NDF: 1683033.4/30

Out: 146.982 $\pm$ 0.025 χ^2 /NDF: 1774445.1/34

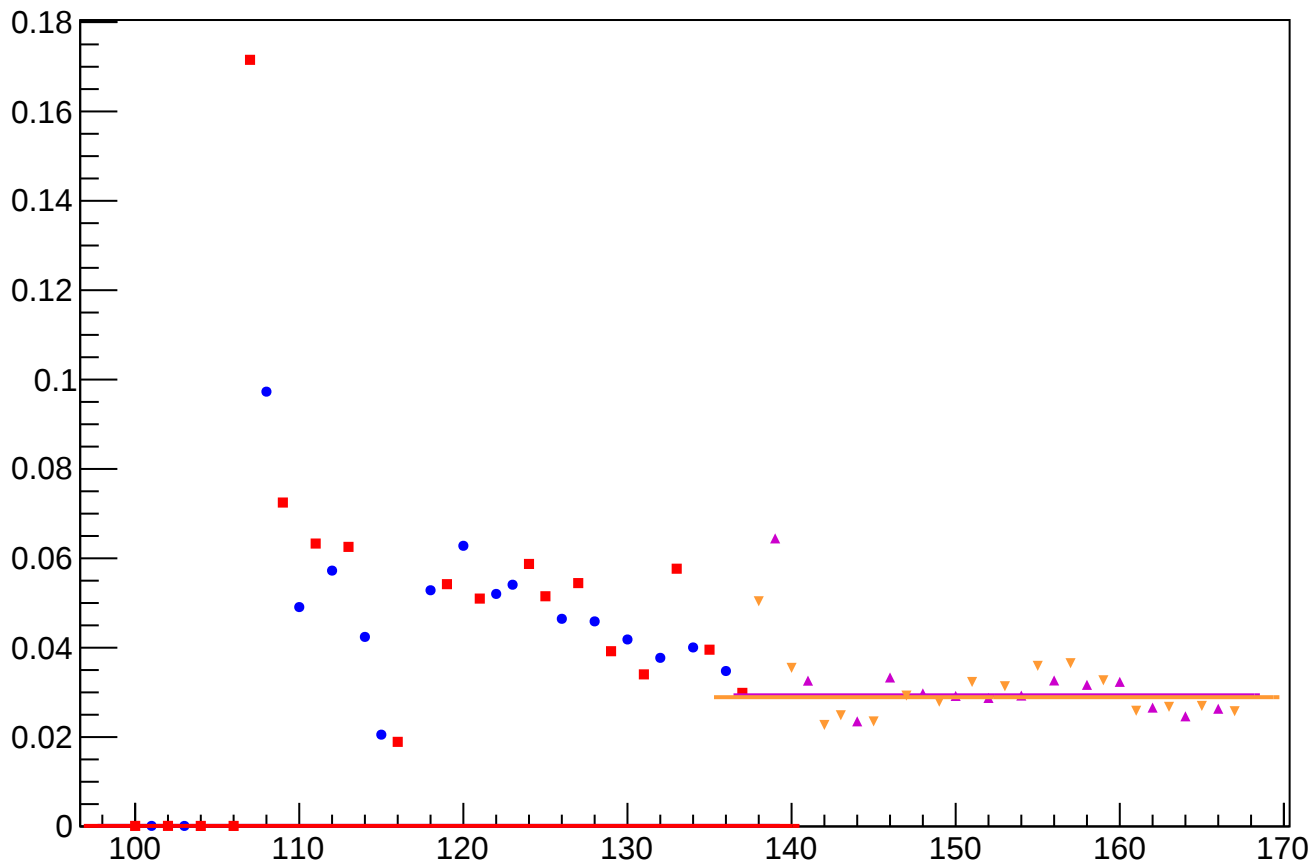
All: 148.187 $\pm$ 0.018 χ^2 /NDF: 3462521.8/65

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532 +/- 0.000 χ^2/NDF : 127906780672.7/16
 Left Out: -0.684 +/- 0.000 χ^2/NDF : 124022184.5/15
 Right Out: 5.827 +/- 0.000 χ^2/NDF : 755948646460090.5/18
 Left In: -0.670 +/- 0.000 χ^2/NDF : 94175895.7/13
 All: 6.154 +/- 0.000 χ^2/NDF : 77707415635755

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.029+/-0.000 χ^2/NDF : 590788.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.029+/-0.000 χ^2/NDF : 591817.6/13

Left: 0.029+/-0.000 χ^2/NDF : 1184465.8/29

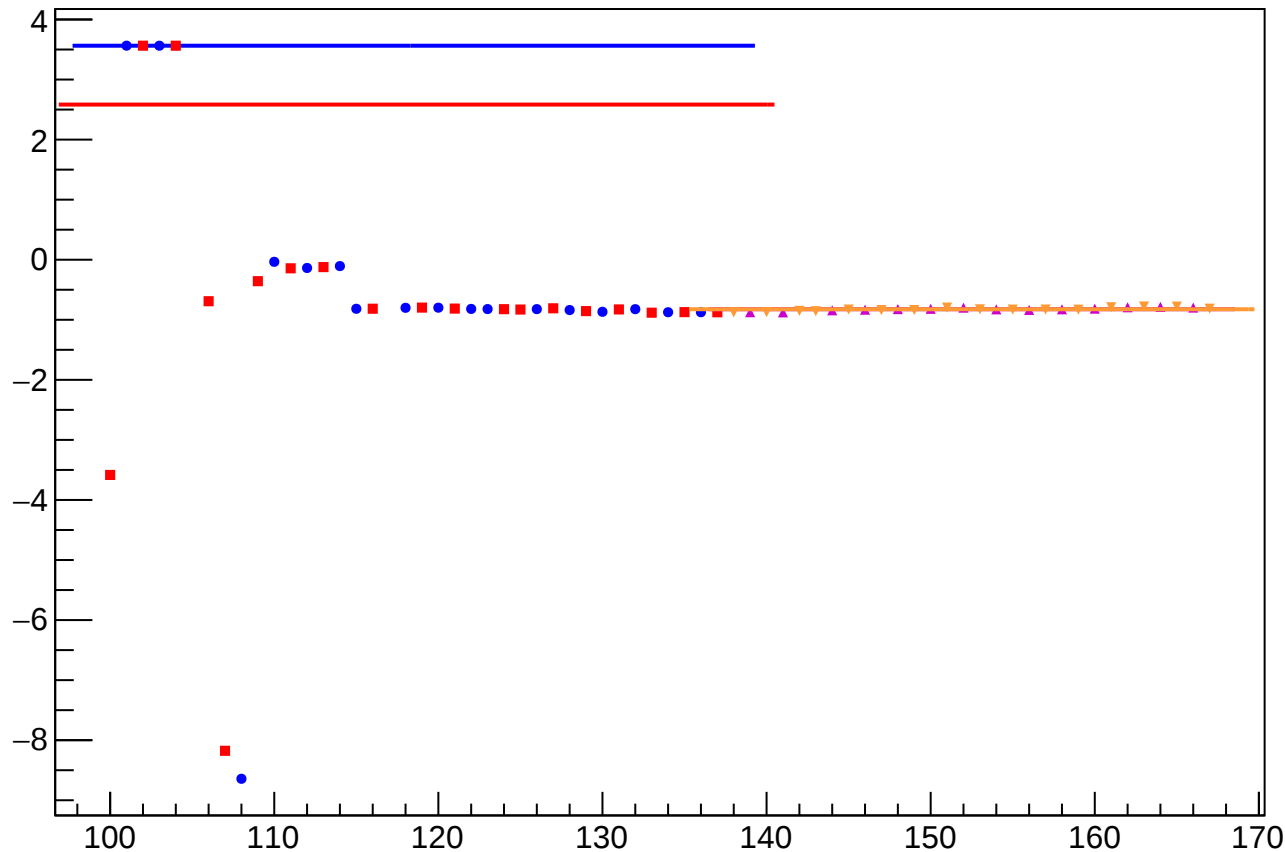
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 26785102.7/30

Out: 0.000+/-0.000 χ^2/NDF : 28616914.3/34

All: 0.000+/-0.000 χ^2/NDF : 55402315.0/65

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.825+/-0.000 χ^2/NDF : 123790496.5/15

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: -0.824+/-0.000 χ^2/NDF : 221811000.2/29

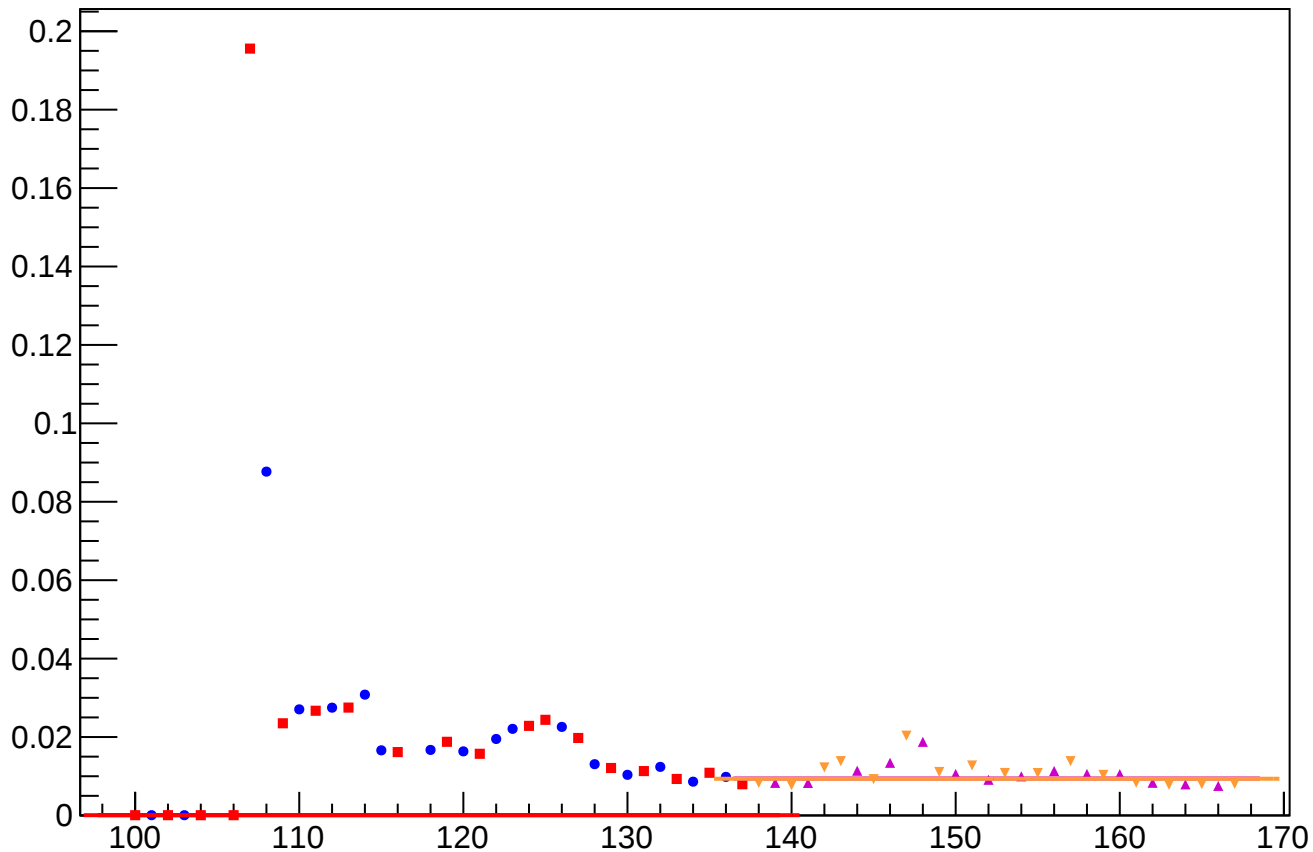
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.562+/-0.000 χ^2/NDF : 2326453467888.9/30

Out: 2.582+/-0.000 χ^2/NDF : 1254736498286687.2

All: 3.039+/-0.000 χ^2/NDF : 13852737719415

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.009+/-0.000 χ^2/NDF :1059703.0/15

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 : 1807006.9/29

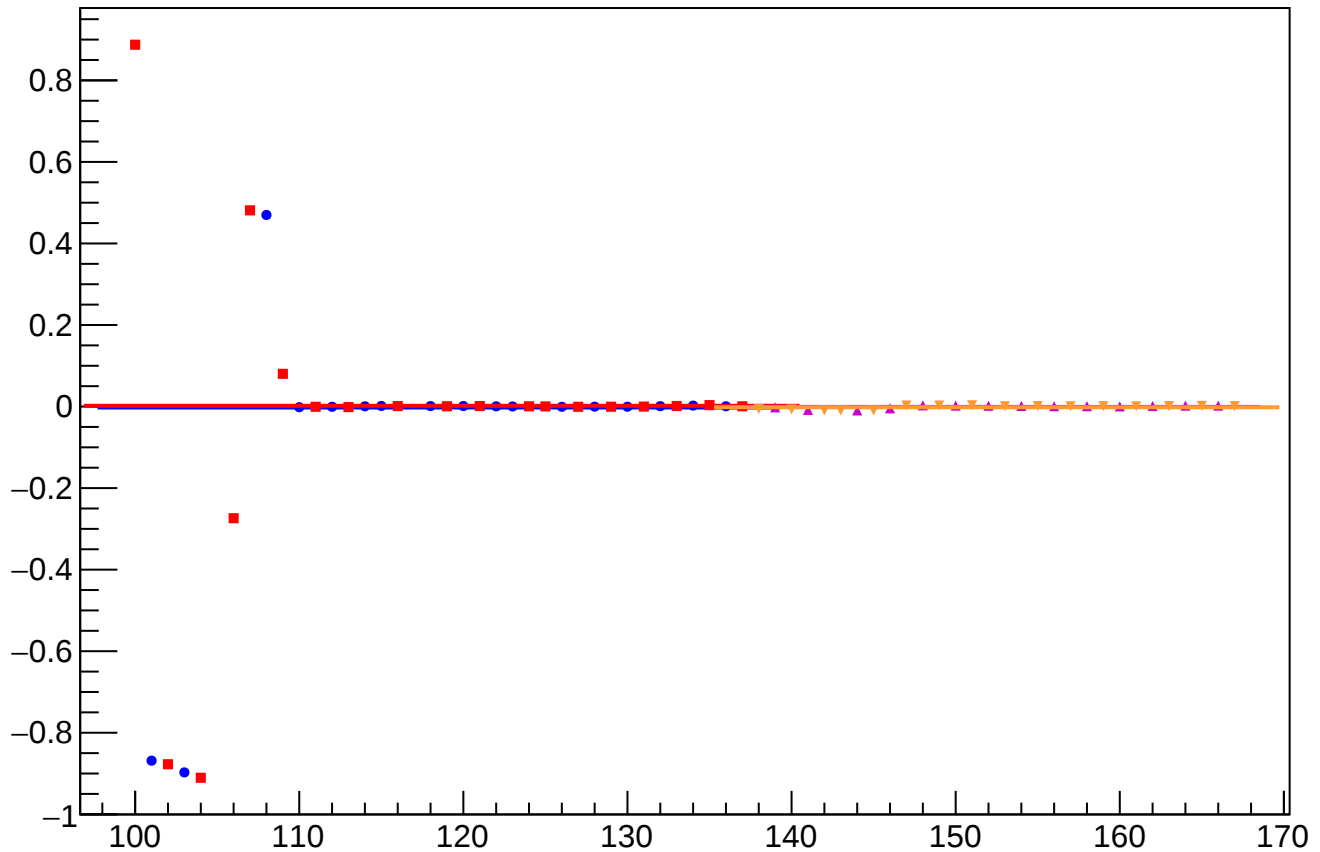
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :27343441.0/30

Out: 0.000+/-0.000 χ^2/NDF :29263851.3/34

All: 0.000+/-0.000 χ^2/NDF : 56607652.3/65

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 : 91677602.6/15

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 : 158400427.8/29

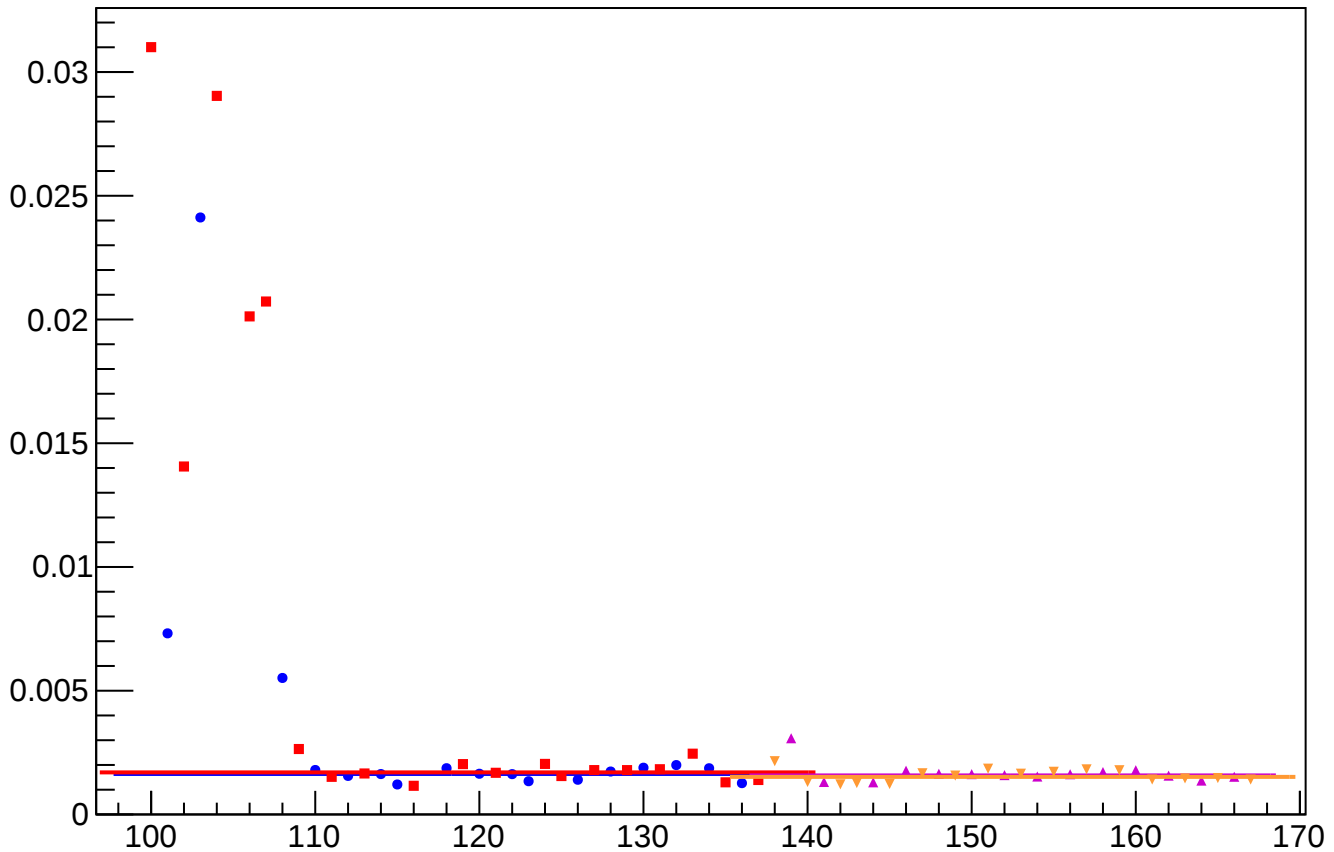
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9863165584.6/30

Out: -0.001+/-0.000 χ^2/NDF : 3147027302.9/34

All: -0.001+/-0.000 χ^2/NDF : 13011234769.9/76

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 : 427952.3/15

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 : 939468.0/29

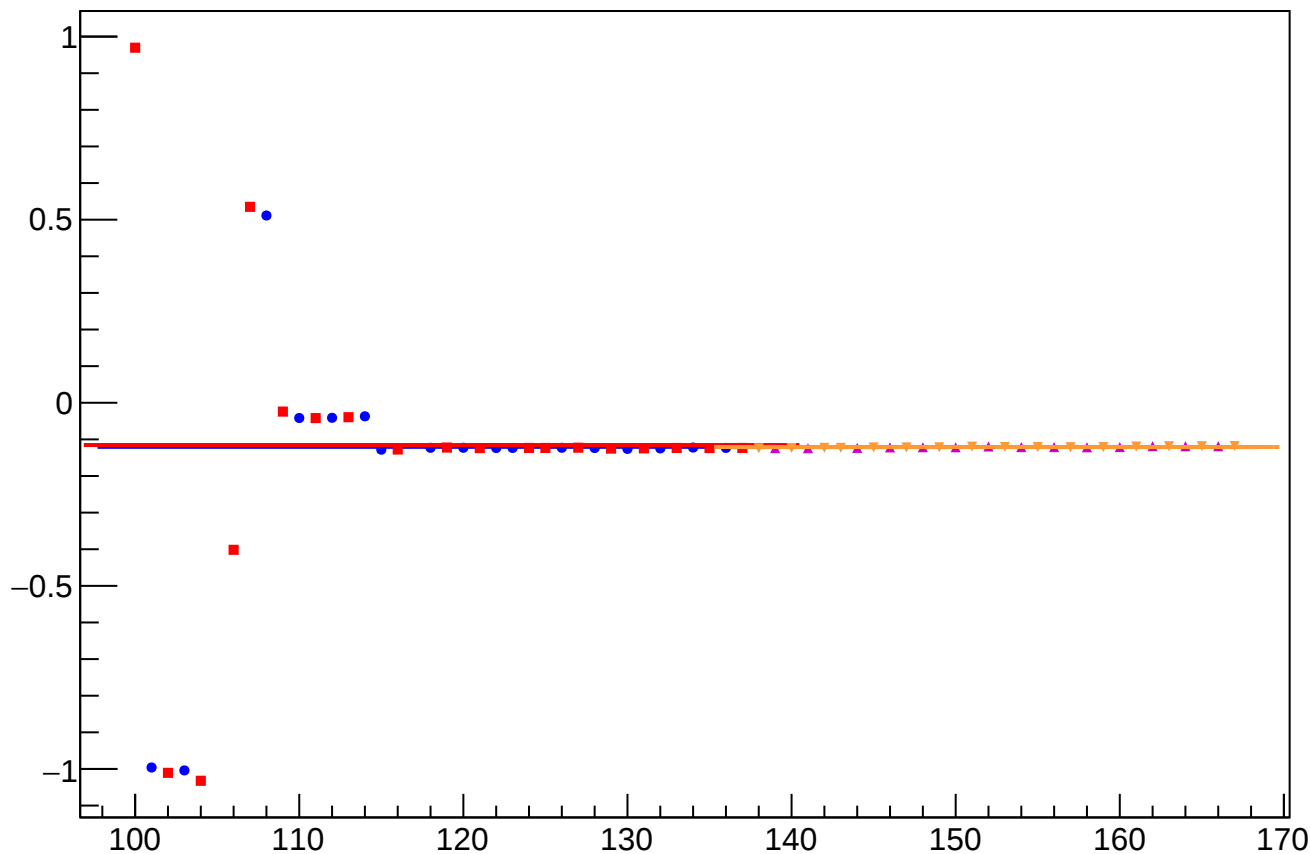
Right: 0.002+/-0.000 χ^2/NDF : 4950980.4/35

In: 0.002+/-0.000 χ^2/NDF : 2425627.4/30

Out: 0.002+/-0.000 χ^2/NDF : 3527281.3/34

All: 0.002+/-0.000 χ^2/NDF : 5957234.4/65

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 : 31344900.8/15

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 : 58903359.2/29

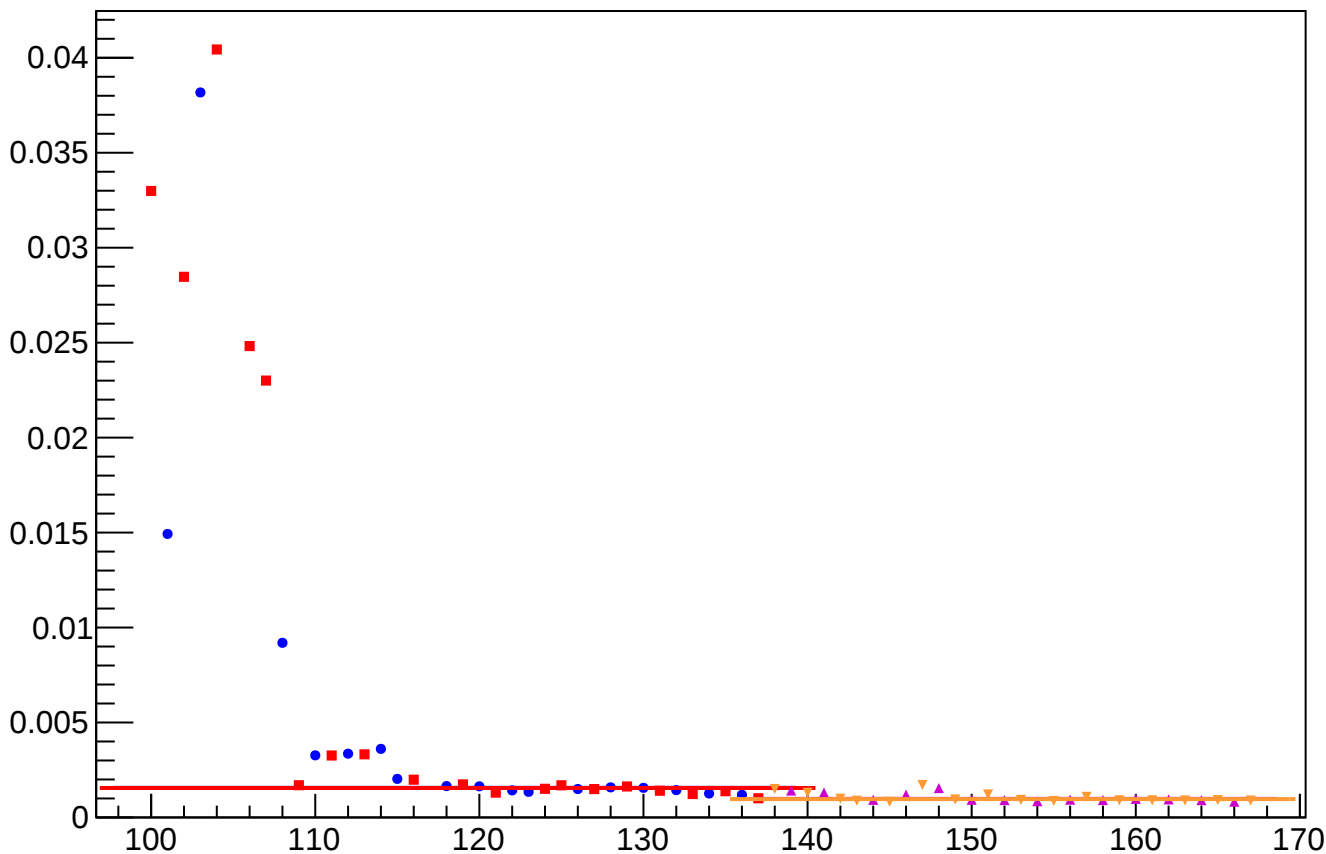
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3960328137.6/30

Out: -0.120+/-0.000 χ^2/NDF : 2536951756.4/34

All: -0.120+/-0.000 χ^2/NDF : 6500288759.2/6

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 : 727731.3/15

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 : 1293943.8/29

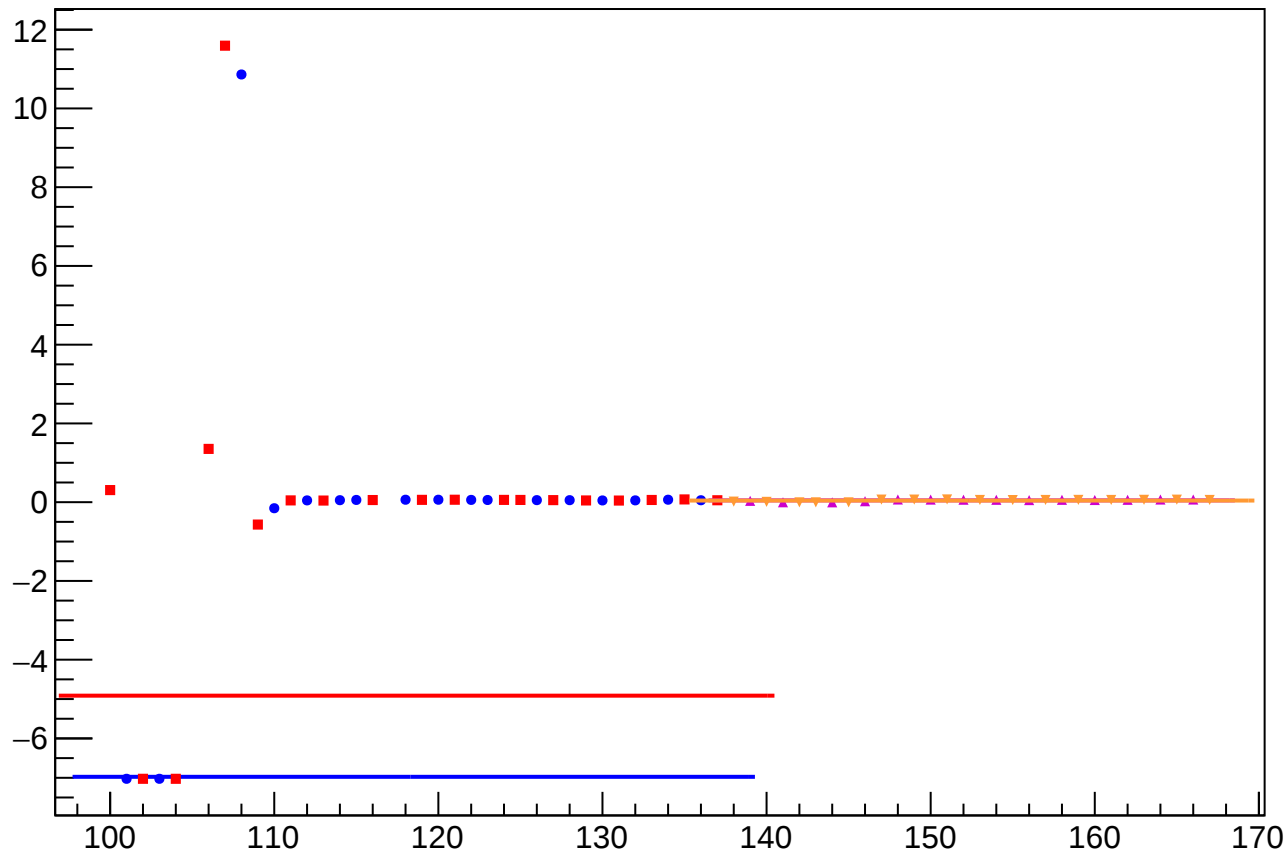
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF : 4552412.4/30

Out: 0.001+/-0.000 χ^2/NDF : 5382223.3/34

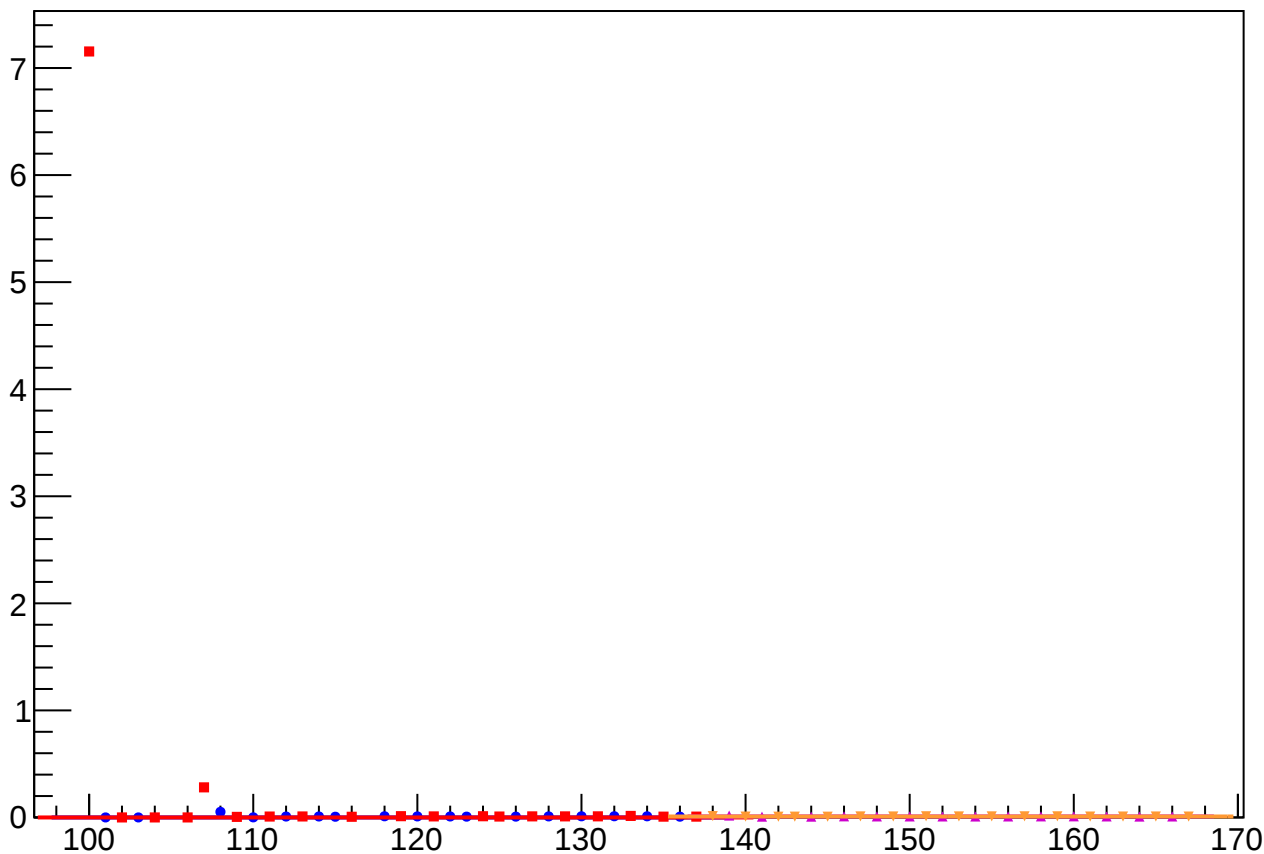
All: 0.001+/-0.000 χ^2/NDF : 9938655.1/65

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$ Left: 0.043 ± 0.000 $\chi^2/\text{NDF}: 167973174.7/29$
 Left Out: 0.041 ± 0.000 $\chi^2/\text{NDF}: 93661255.4/15$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$ In: -6.947 ± 0.000 $\chi^2/\text{NDF}: 13706096282415.4/30$
 Left In: 0.046 ± 0.000 $\chi^2/\text{NDF}: 73297884.4/13$ Out: -4.893 ± 0.000 $\chi^2/\text{NDF}: 368225233628427.8/18$
 All: -5.875 ± 0.000 $\chi^2/\text{NDF}: 4379830576506.4/170$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 420366.9/15

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 : 925816.5/29

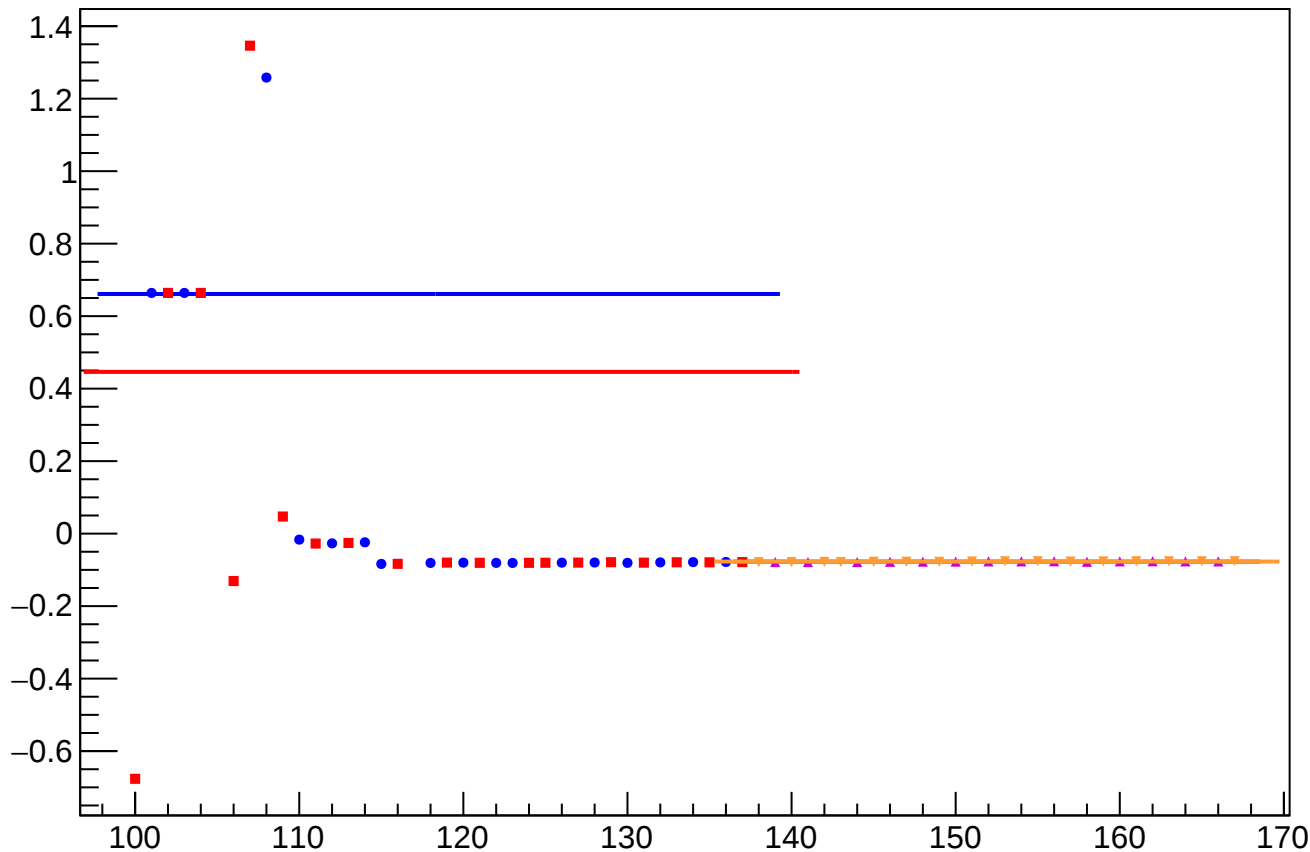
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 25479615.0/30

Out: 0.000+/-0.000 χ^2/NDF : 27229646.7/34

All: 0.000+/-0.000 χ^2/NDF : 52709414.2/65

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5678332616622.1/16

Left: -0.077+/-0.000

χ^2/NDF : 49767220.5/29

Left Out: -0.077+/-0.000

χ^2/NDF : 29940224.5/15

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.652+/-0.000

χ^2/NDF : 22575443894929.2/30

Out: 0.440+/-0.000

χ^2/NDF : 414773725638347.3/3

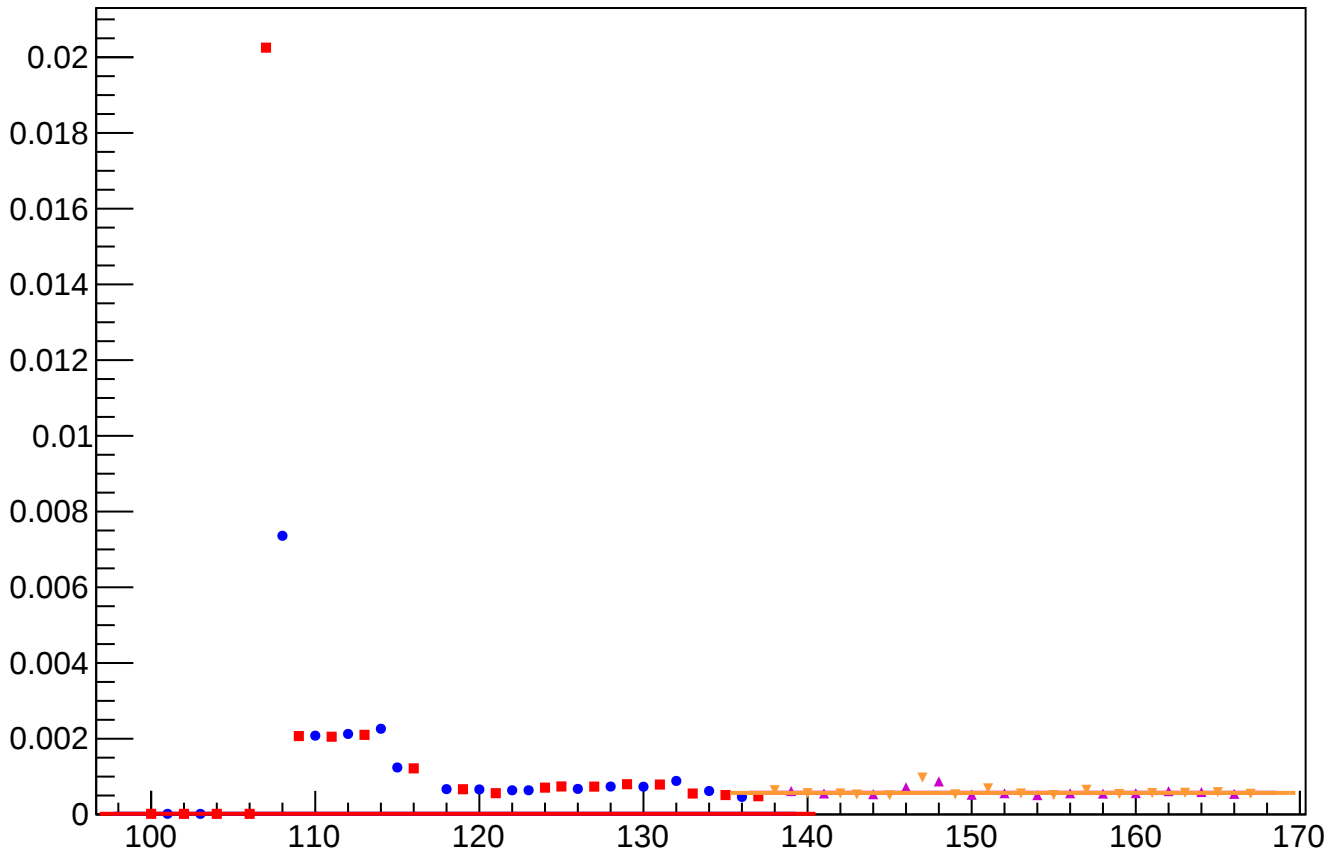
Left In: -0.077+/-0.000

χ^2/NDF : 19757519.2/13

All: 0.541+/-0.000

χ^2/NDF : 49953065556574

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 : 410955.0/15

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 : 726762.4/29

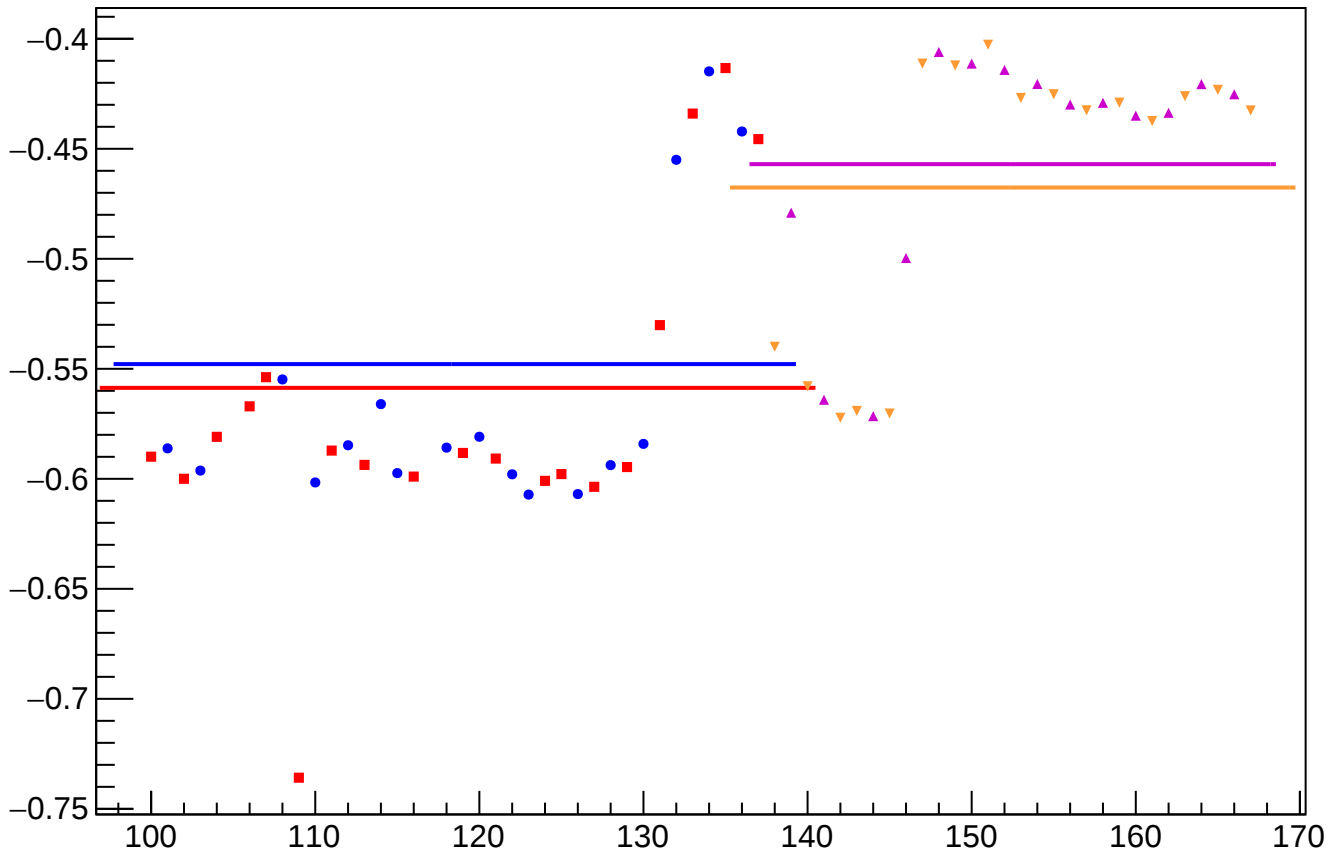
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 29350640.8/30

Out: 0.000+/-0.000 χ^2/NDF : 30654393.6/34

All: 0.000+/-0.000 χ^2/NDF : 60005050.9/65

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.468+/-0.000 χ^2/NDF : 101955568.9/15

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: -0.463+/-0.000 χ^2/NDF : 175748754.9/29

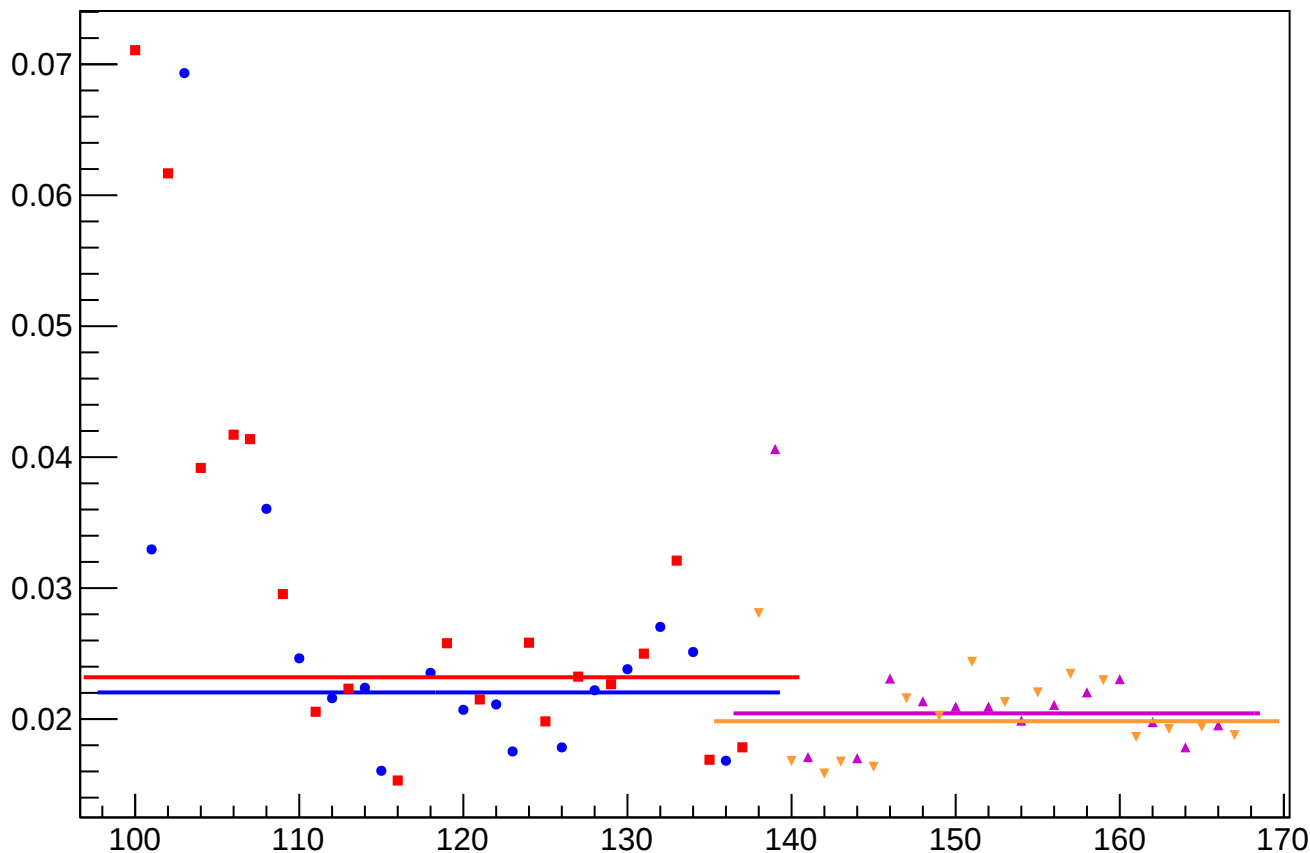
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.488+/-0.000 χ^2/NDF : 178725055.6/30

Out: -0.494+/-0.000 χ^2/NDF : 225688477.9/34

All: -0.491+/-0.000 χ^2/NDF : 405156337.1/65

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 : 397495.1/15

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 : 906346.1/29

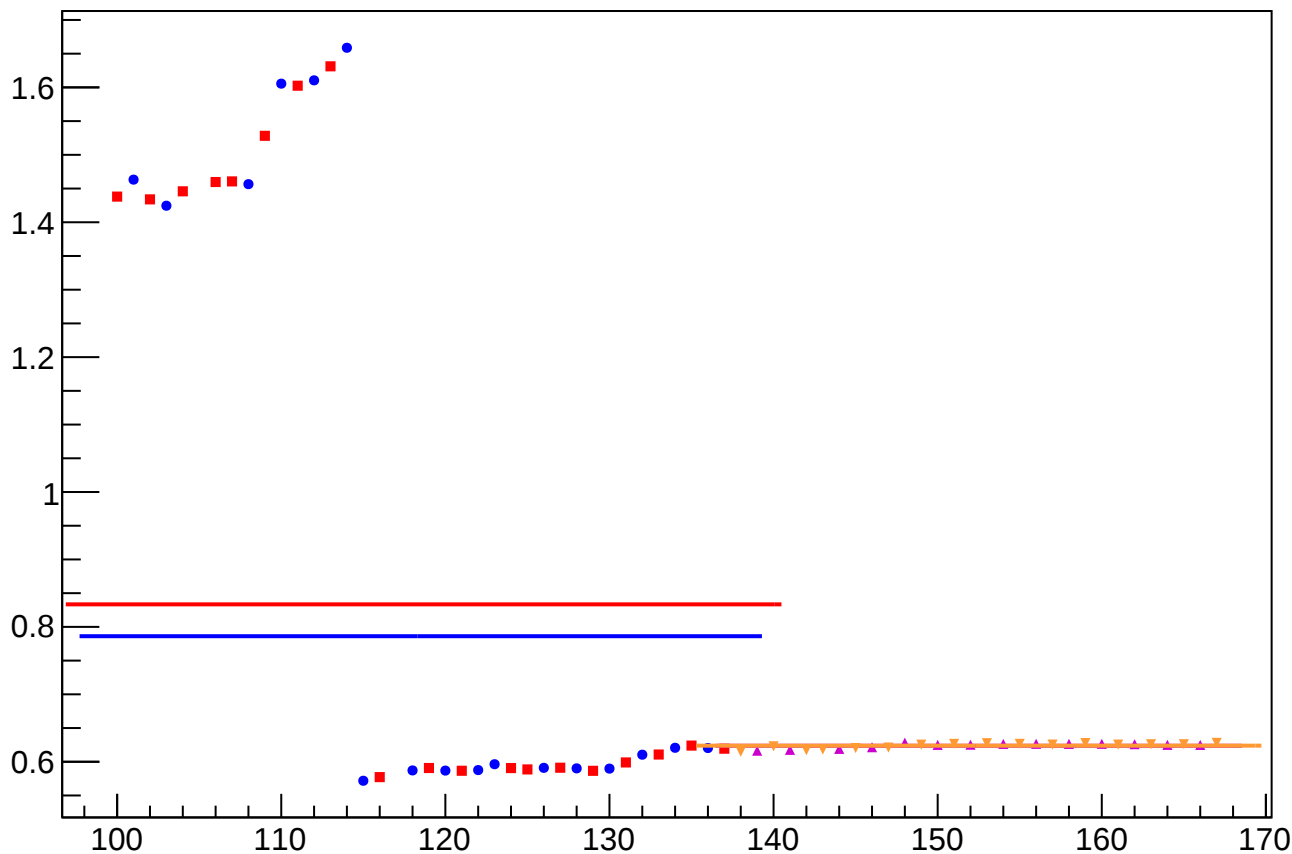
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1495364.3/30

Out: 0.021+/-0.000 χ^2/NDF : 1712287.6/34

All: 0.021+/-0.000 χ^2/NDF : 3208399.9/65

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:1140386.5/15

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: 2027297.8/29

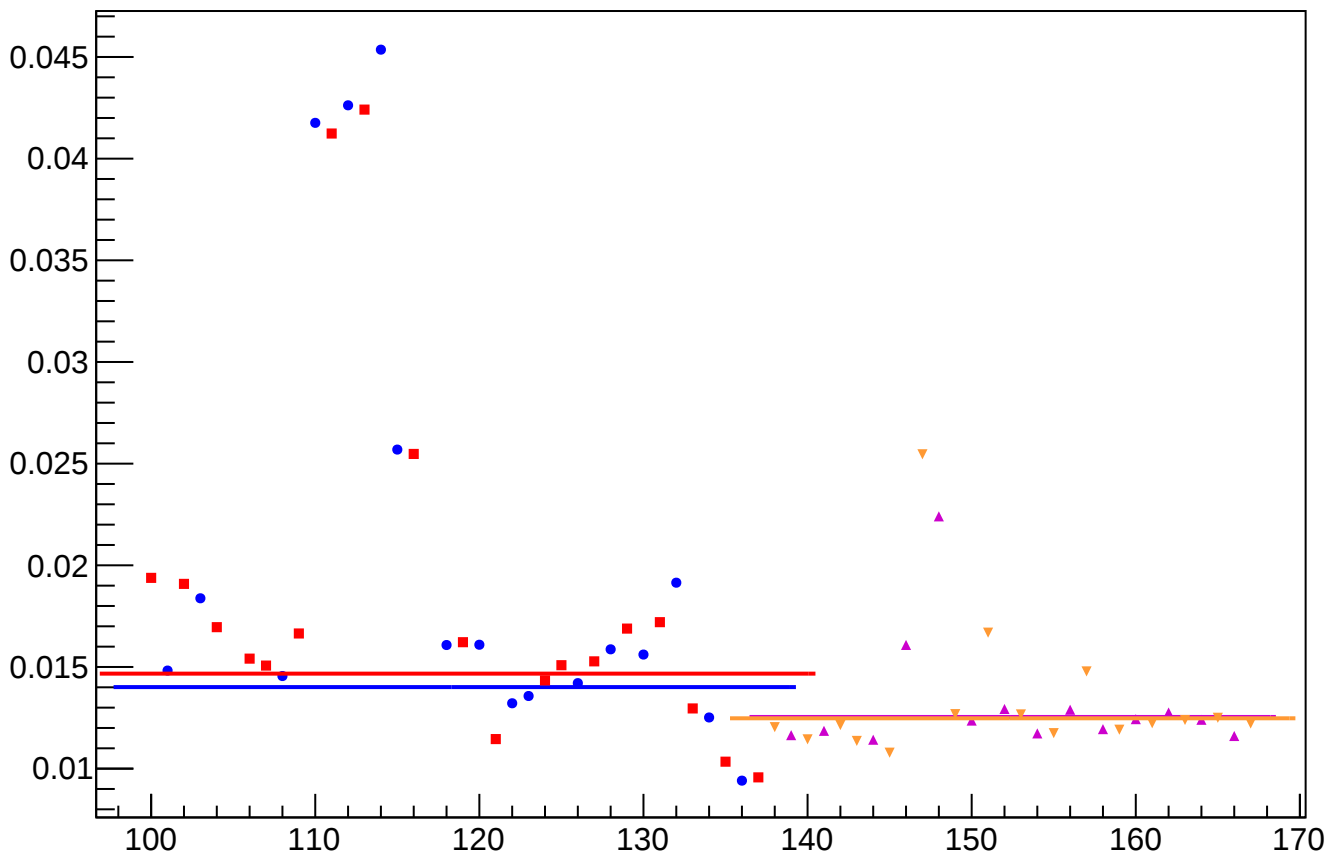
Right: 0.809 $\pm$ 0.000 χ^2 /NDF: 7778629767.1/35

In: 0.673 $\pm$ 0.000 χ^2 /NDF:4121417152.4/30

Out: 0.682 $\pm$ 0.000 χ^2 /NDF:5041764436.3/34

All: 0.678 $\pm$ 0.000 χ^2 /NDF: 9167175290.2/65

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 :589161.7/15

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 : 1006467.2/29

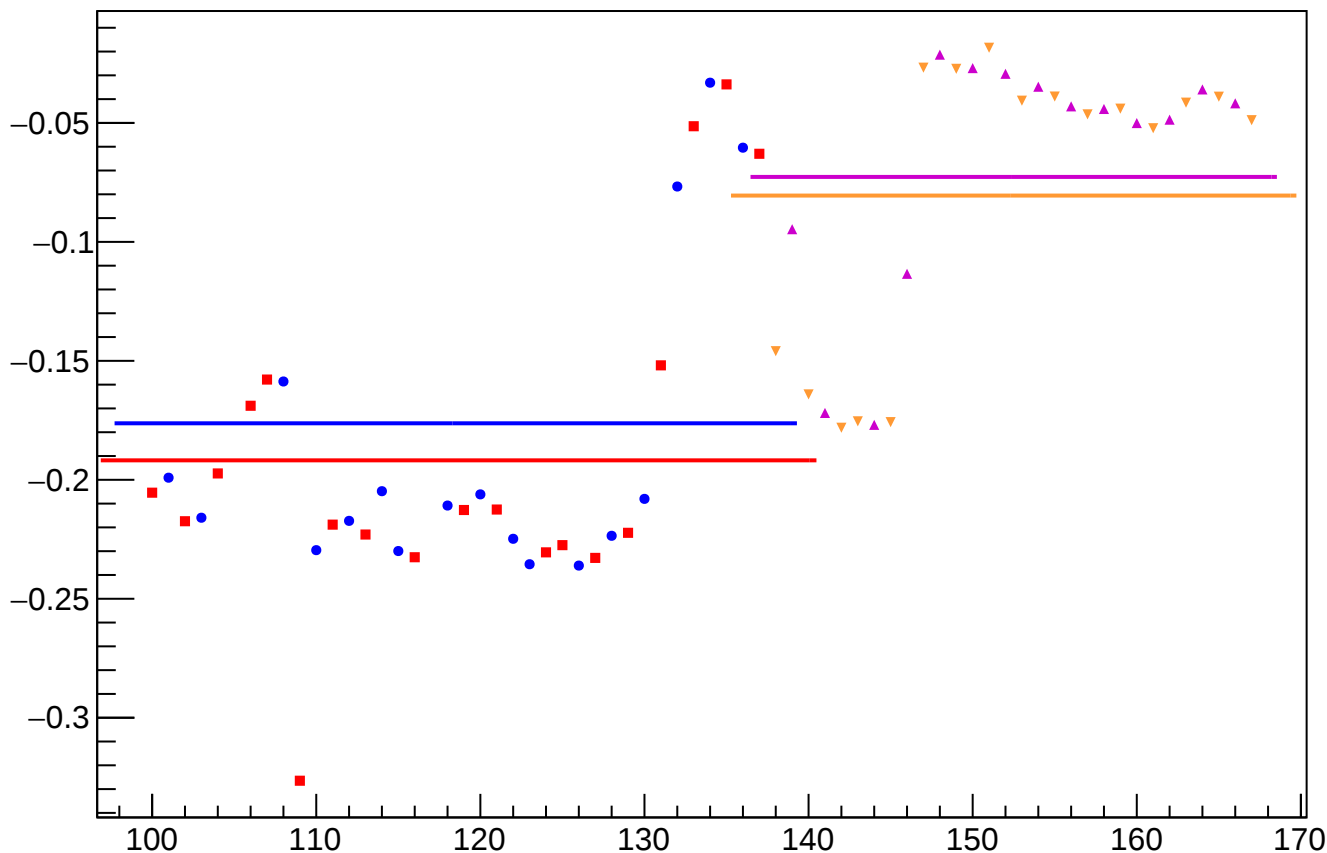
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1908605.5/30

Out: 0.013+/-0.000 χ^2/NDF :2046852.6/34

All: 0.013+/-0.000 χ^2/NDF : 3956412.2/65

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.081+/-0.000 χ^2/NDF : 97278178.8/15

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: -0.077+/-0.000 χ^2/NDF : 170841489.8/29

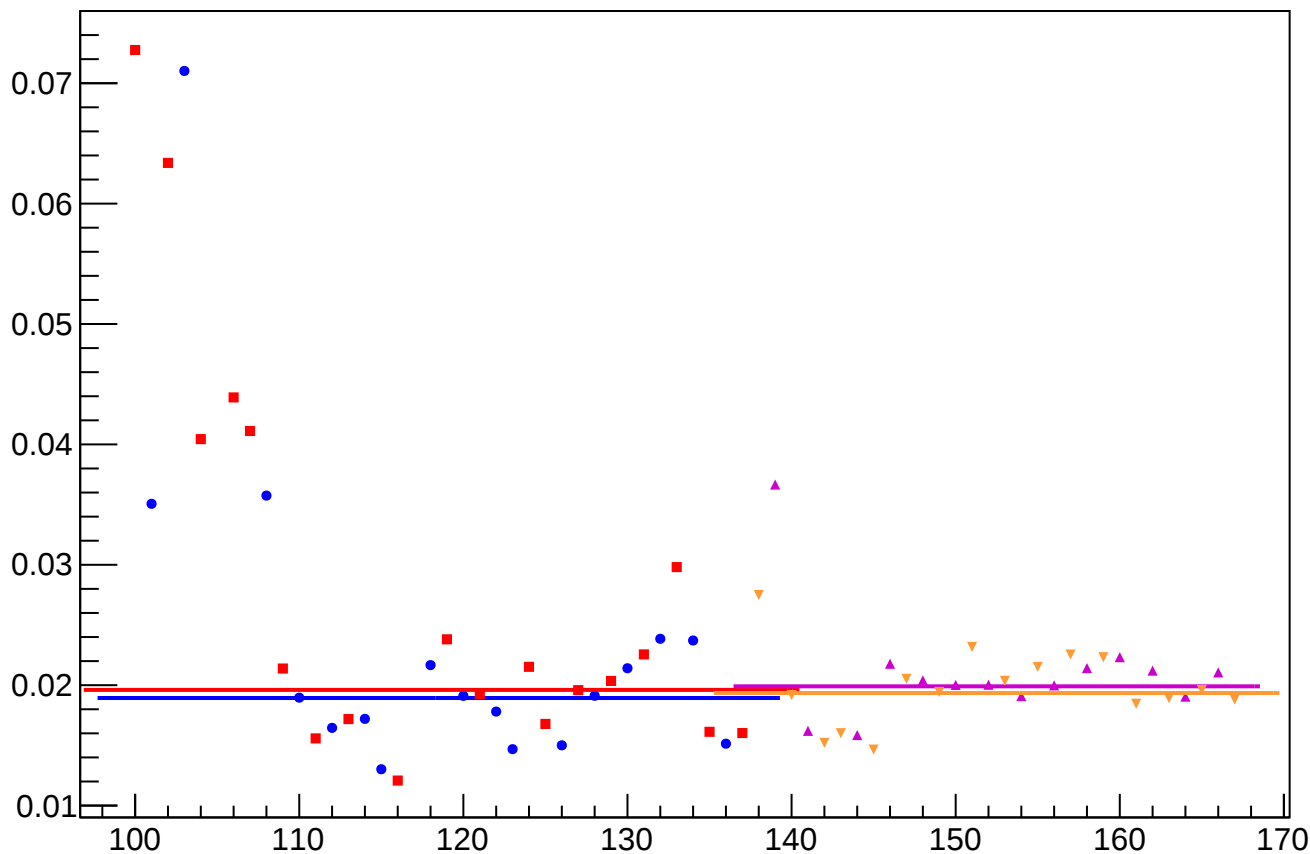
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.113+/-0.000 χ^2/NDF : 234696991.4/30

Out: -0.119+/-0.000 χ^2/NDF : 290323022.4/34

All: -0.116+/-0.000 χ^2/NDF : 525766445.2/65

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 : 418156.2/15

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 : 897609.9/29

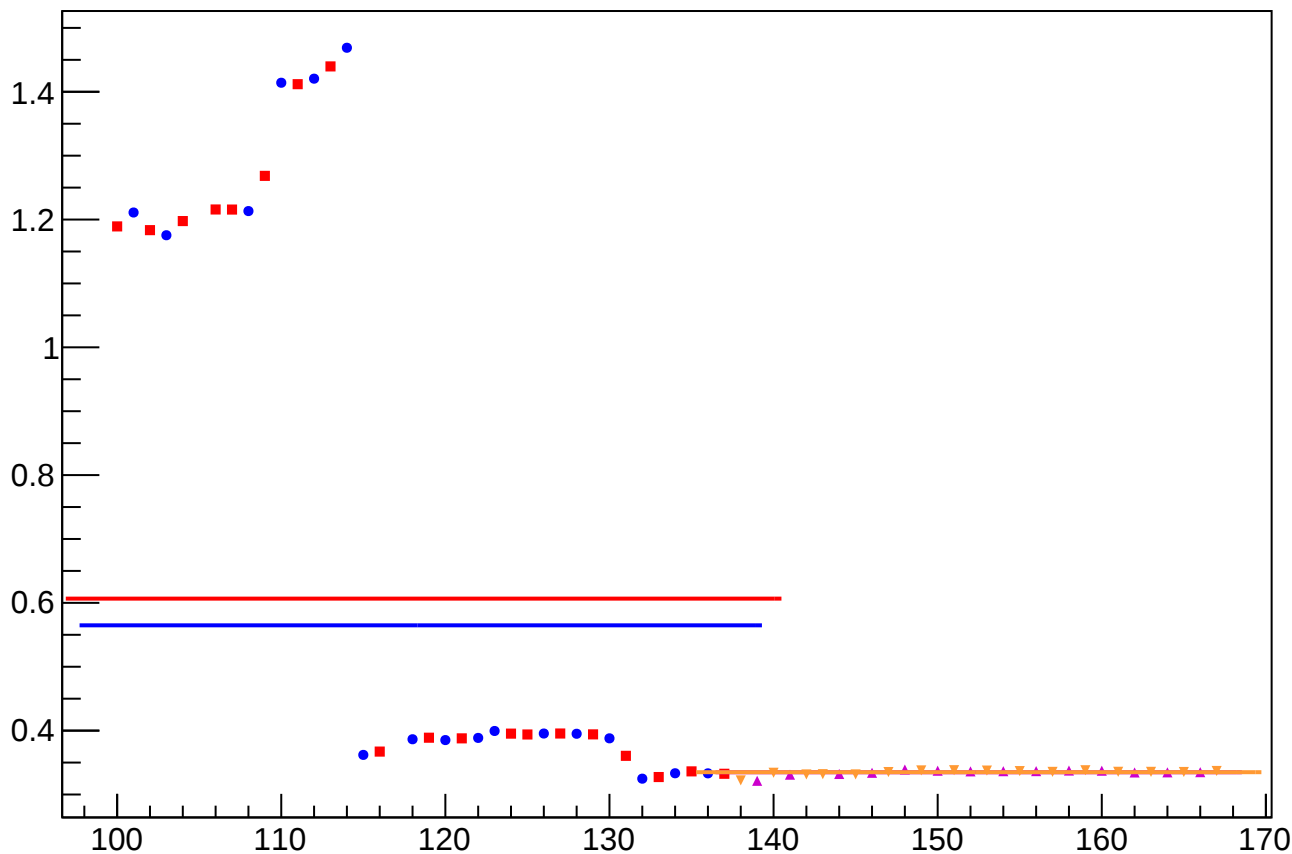
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.020+/-0.000 χ^2/NDF : 1694084.9/30

Out: 0.019+/-0.000 χ^2/NDF : 1877017.2/34

All: 0.019+/-0.000 χ^2/NDF : 3571405.7/65

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565+/-0.000

χ^2/NDF : 5030969499.3/16

Left: 0.335+/-0.000 χ^2/NDF : 2248413.1/29

Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

Left Out: 0.335+/-0.000

χ^2/NDF : 1093996.9/15

In: 0.408+/-0.000 χ^2/NDF : 6413293617.1/30

Right Out: 0.607+/-0.000

χ^2/NDF : 5513752213.8/18

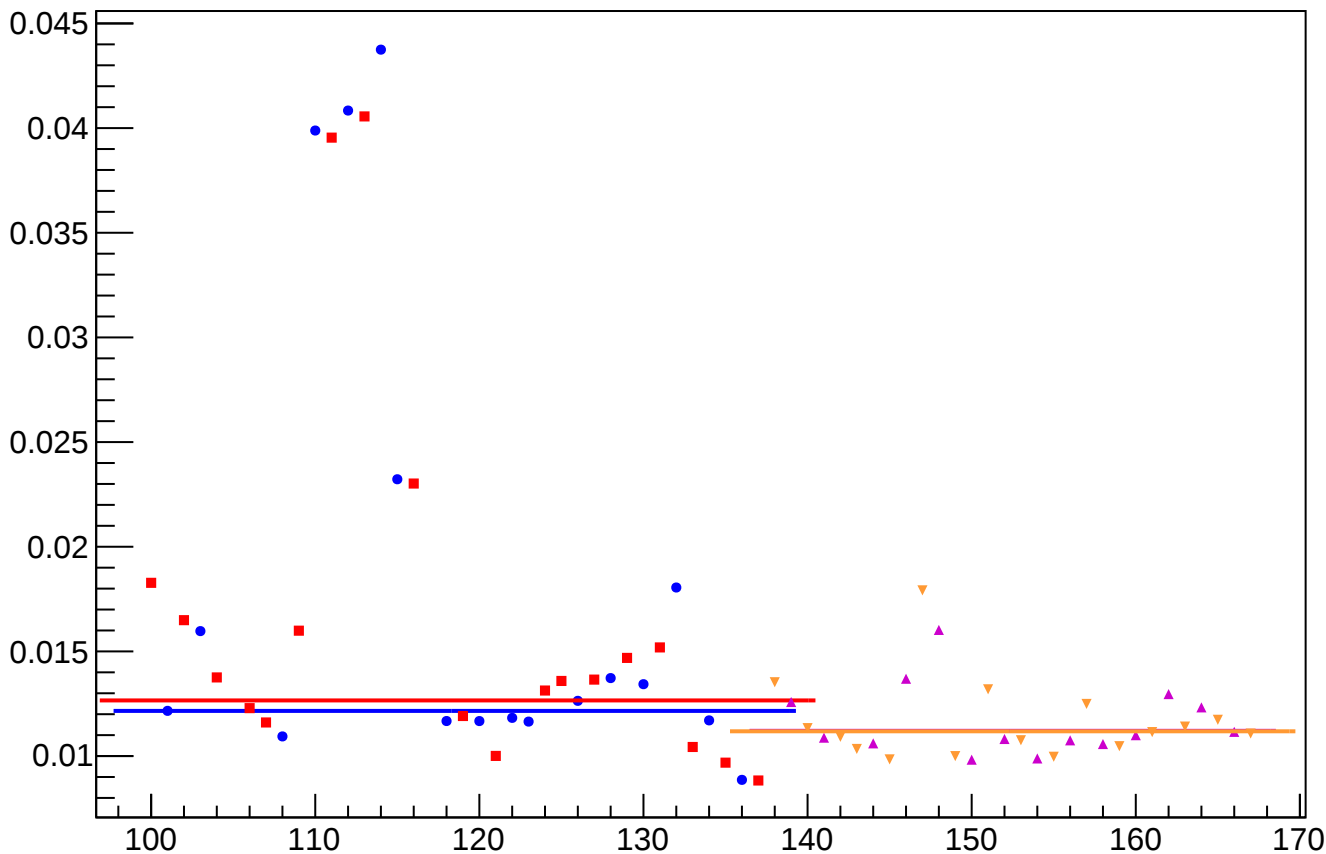
Out: 0.414+/-0.000 χ^2/NDF : 7439894427.3/34

Left In: 0.335+/-0.000

χ^2/NDF : 1154036.2/13

All: 0.411+/-0.000 χ^2/NDF : 13855256398.4/6

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:398268.3/15

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: 719583.9/29

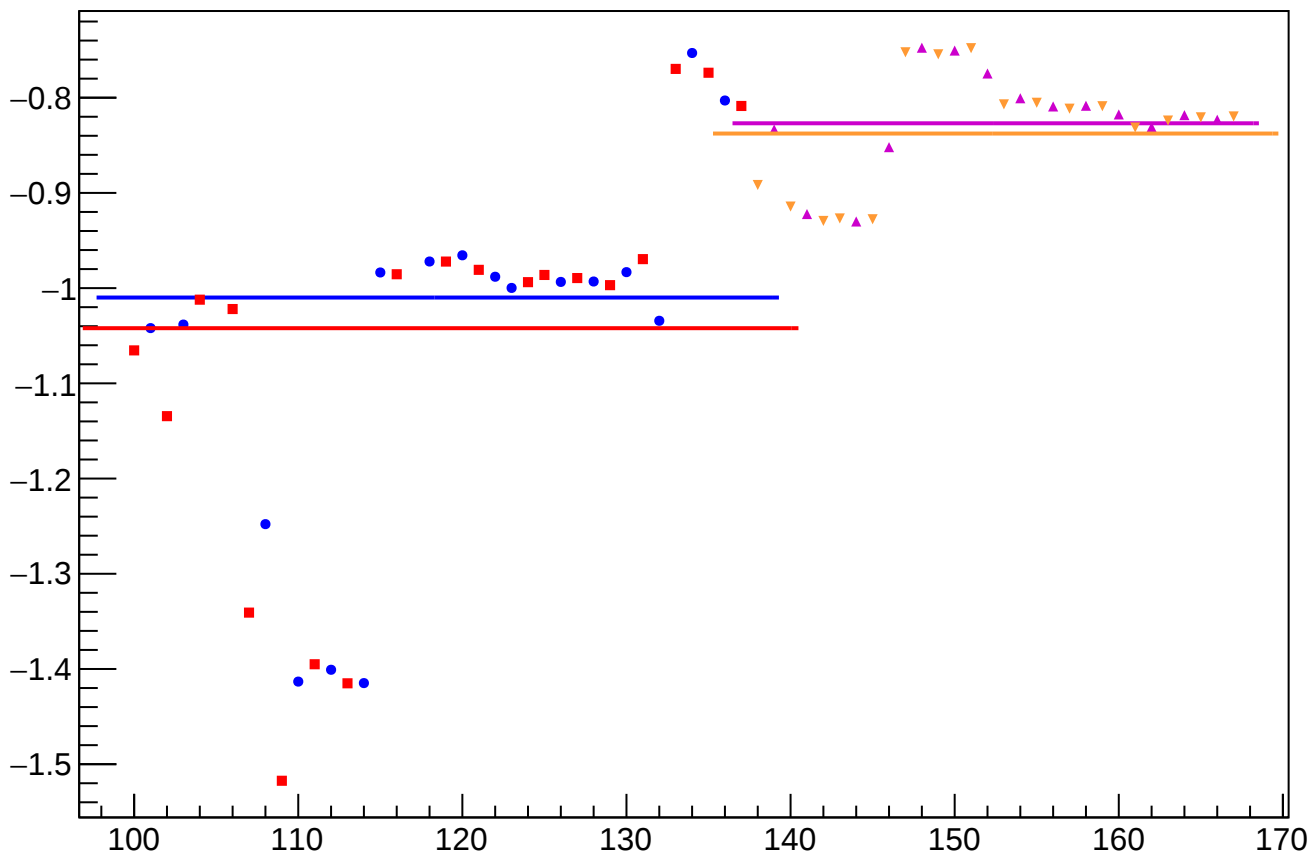
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2589989.8/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:1678481.6/30

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1782400.4/34

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3462196.5/65

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010+/-0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.838+/-0.000 χ^2/NDF : 93388268.8/15

Right Out: -1.042+/-0.000 χ^2/NDF : 530106141.8/18

Left In: -0.827+/-0.000 χ^2/NDF : 70168542.1/13

Left: -0.833+/-0.000 χ^2/NDF : 164906782.2/29

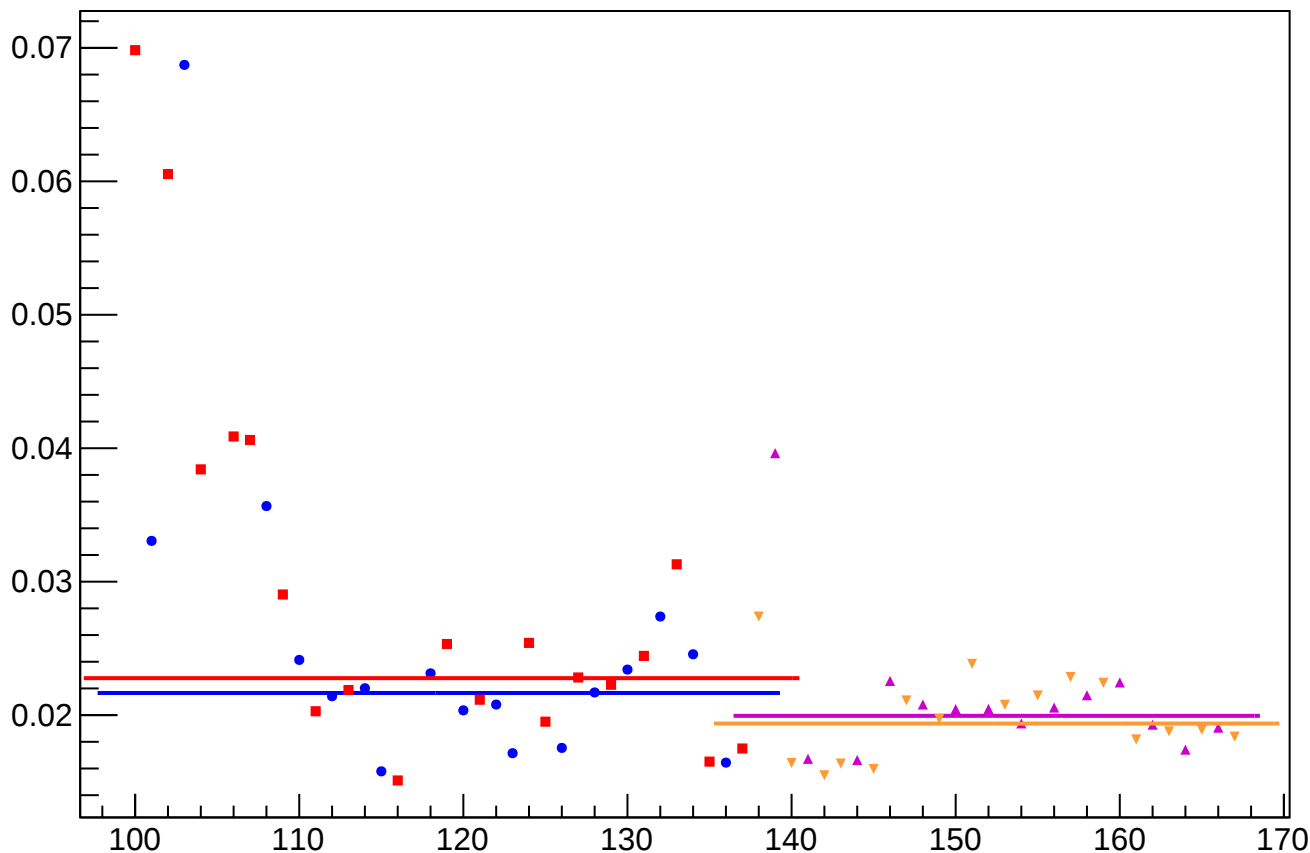
Right: -1.026+/-0.000 χ^2/NDF : 923225272.3/35

In: -0.888+/-0.000 χ^2/NDF : 700493653.3/30

Out: -0.897+/-0.000 χ^2/NDF : 927617912.0/34

All: -0.893+/-0.000 χ^2/NDF : 1629577279.0/6

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 : 395144.9/15

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 : 900711.0/29

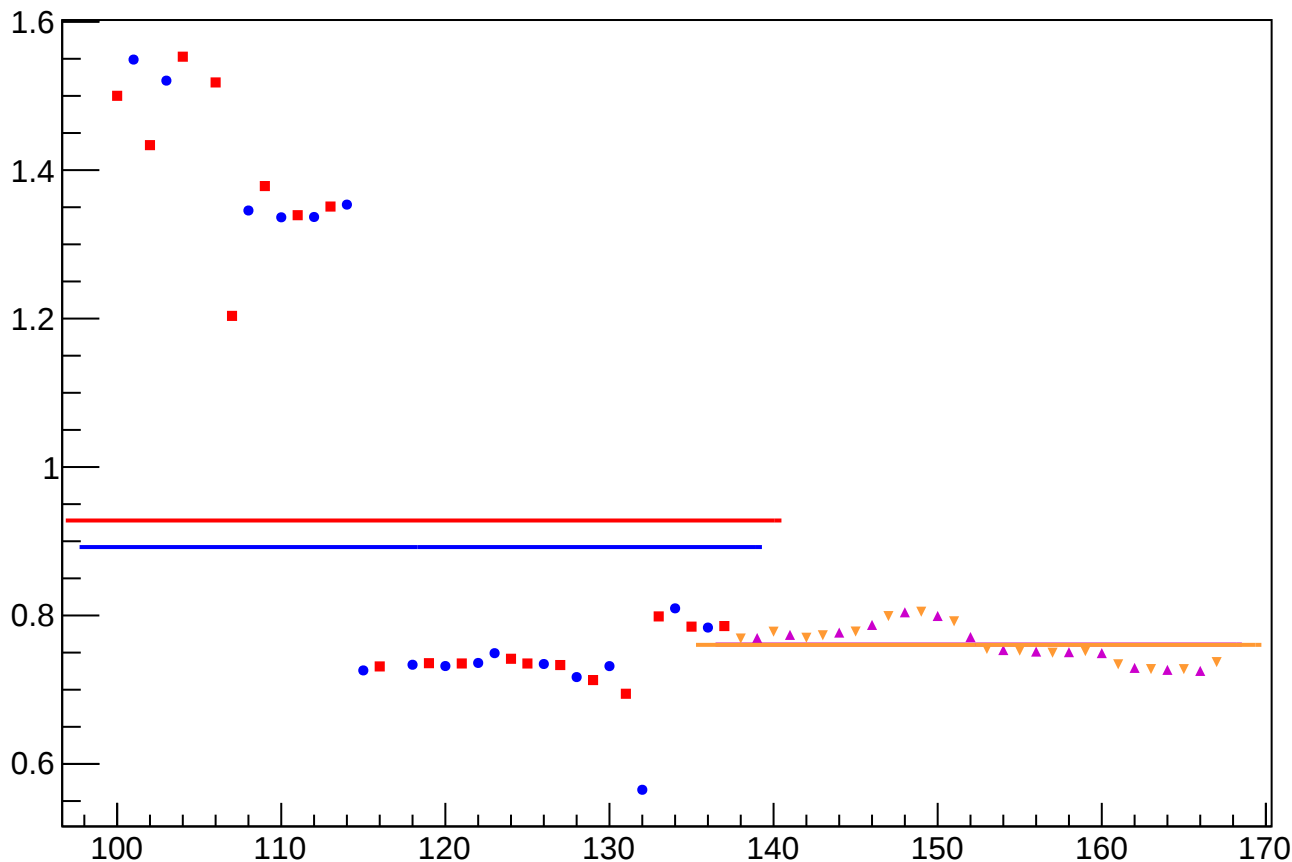
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.021+/-0.000 χ^2/NDF : 1523692.2/30

Out: 0.020+/-0.000 χ^2/NDF : 1716125.5/34

All: 0.020+/-0.000 χ^2/NDF : 3240667.9/65

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2 /NDF: 2413732173.6/16

Left Out: 0.760 $\pm$ 0.000 χ^2 /NDF:36027456.5/15

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: 0.761 $\pm$ 0.000 χ^2 /NDF: 68481941.1/29

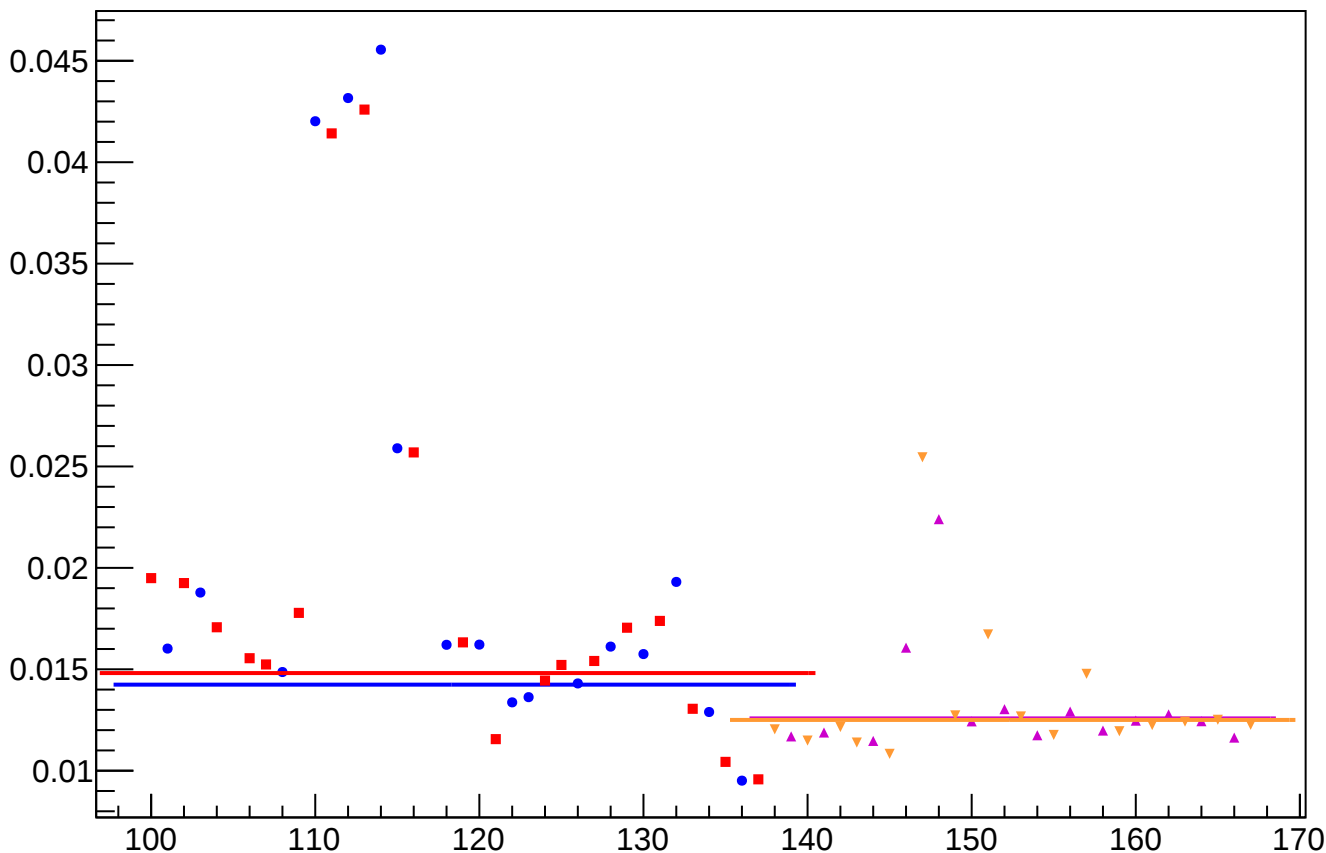
Right: 0.910 $\pm$ 0.000 χ^2 /NDF: 4868922187.9/35

In: 0.800 $\pm$ 0.000 χ^2 /NDF:2782757763.4/30

Out: 0.807 $\pm$ 0.000 χ^2 /NDF:3028442647.3/34

All: 0.803 $\pm$ 0.000 χ^2 /NDF: 5813230965.1/65

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.013+/-0.000 χ^2/NDF :584499.5/15

Right Out: 0.015+/-0.000 χ^2/NDF : 1274172.7/18

Left In: 0.013+/-0.000 χ^2/NDF :412926.0/13

Left: 0.013+/-0.000 χ^2/NDF : 997817.6/29

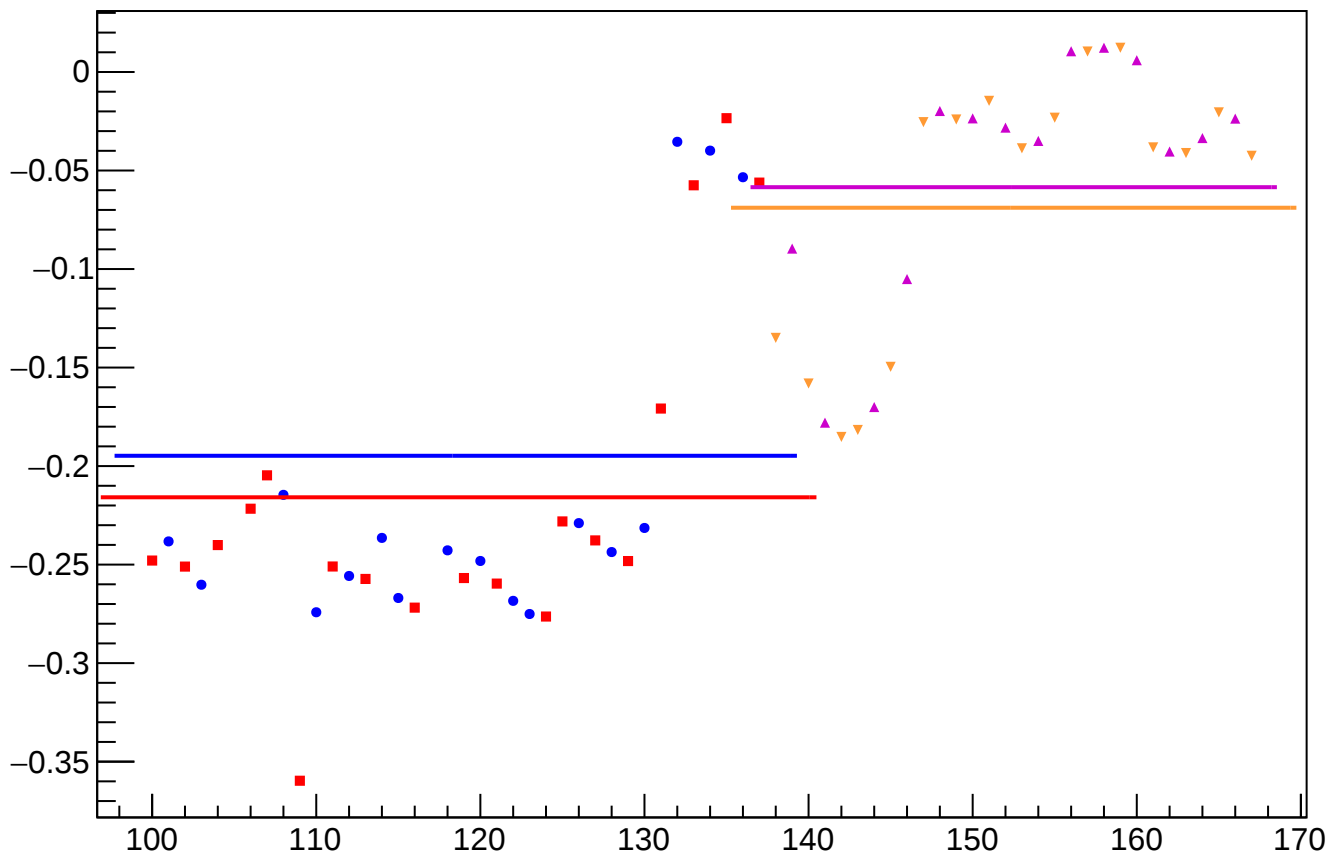
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF :1936705.7/30

Out: 0.013+/-0.000 χ^2/NDF :2069806.2/34

All: 0.013+/-0.000 χ^2/NDF : 4006903.8/65

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.069+/-0.000 χ^2/NDF : 114396656.5/15

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: -0.064+/-0.000 χ^2/NDF : 212326689.4/29

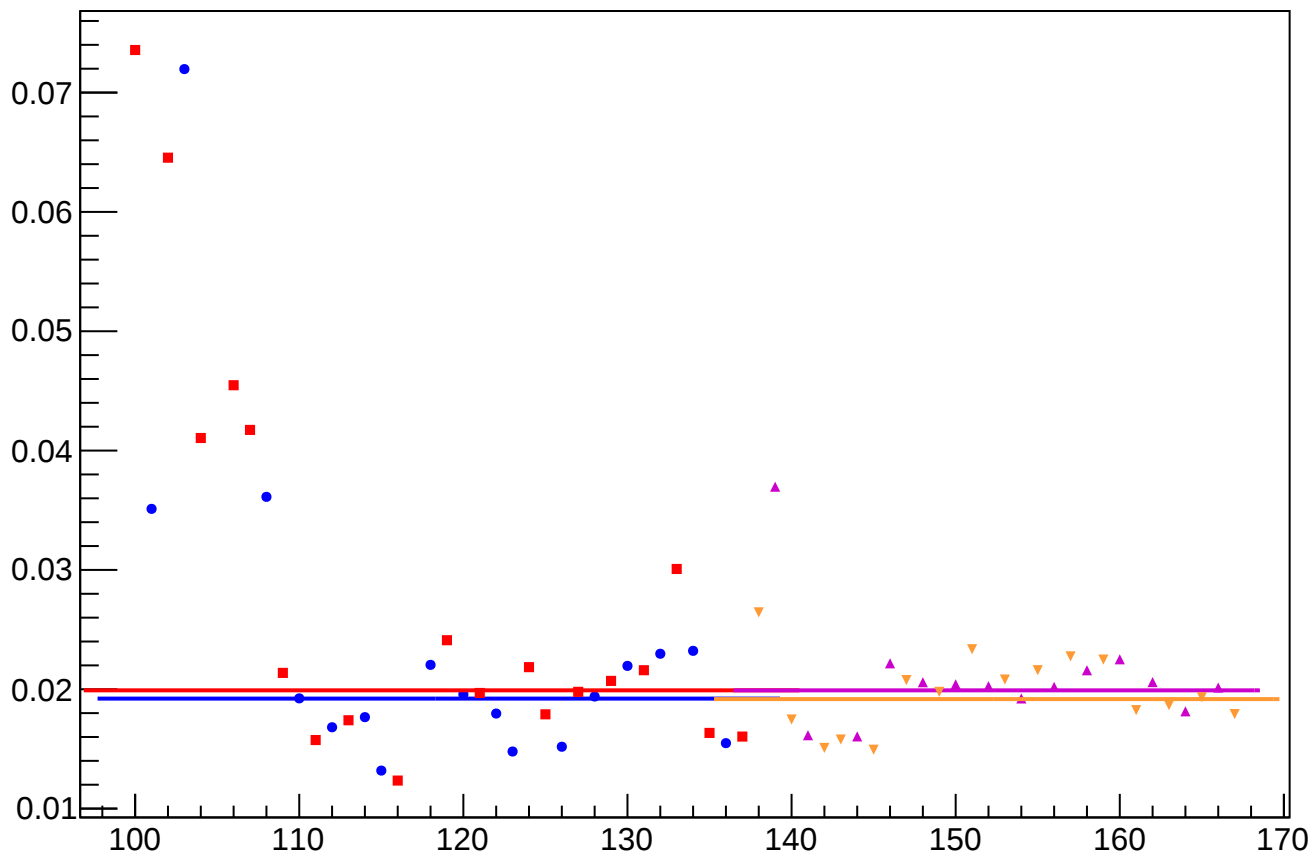
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.111+/-0.000 χ^2/NDF : 361085672.1/30

Out: -0.118+/-0.000 χ^2/NDF : 413545971.5/34

All: -0.115+/-0.000 χ^2/NDF : 775773497.7/65

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 : 426761.6/15

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 : 919703.9/29

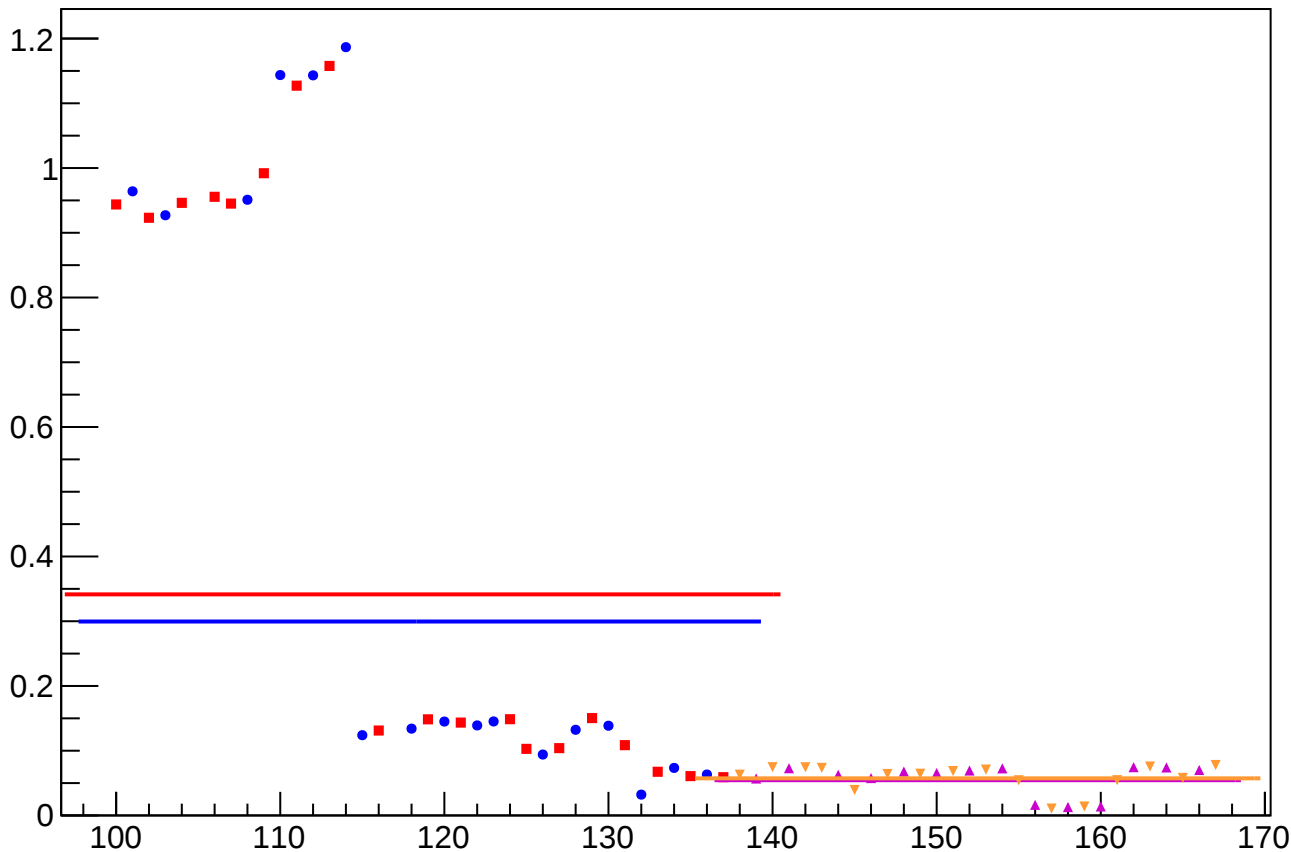
Right: 0.020 $\pm$ 0.000 χ^2/NDF : 2630434.7/35

In: 0.020 $\pm$ 0.000 χ^2/NDF : 1665344.0/30

Out: 0.019 $\pm$ 0.000 χ^2/NDF : 1883055.9/34

All: 0.020 $\pm$ 0.000 χ^2/NDF : 3550203.9/65

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.057+/-0.000 χ^2/NDF : 40217287.2/15

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: 0.056+/-0.000 χ^2/NDF : 88993451.9/29

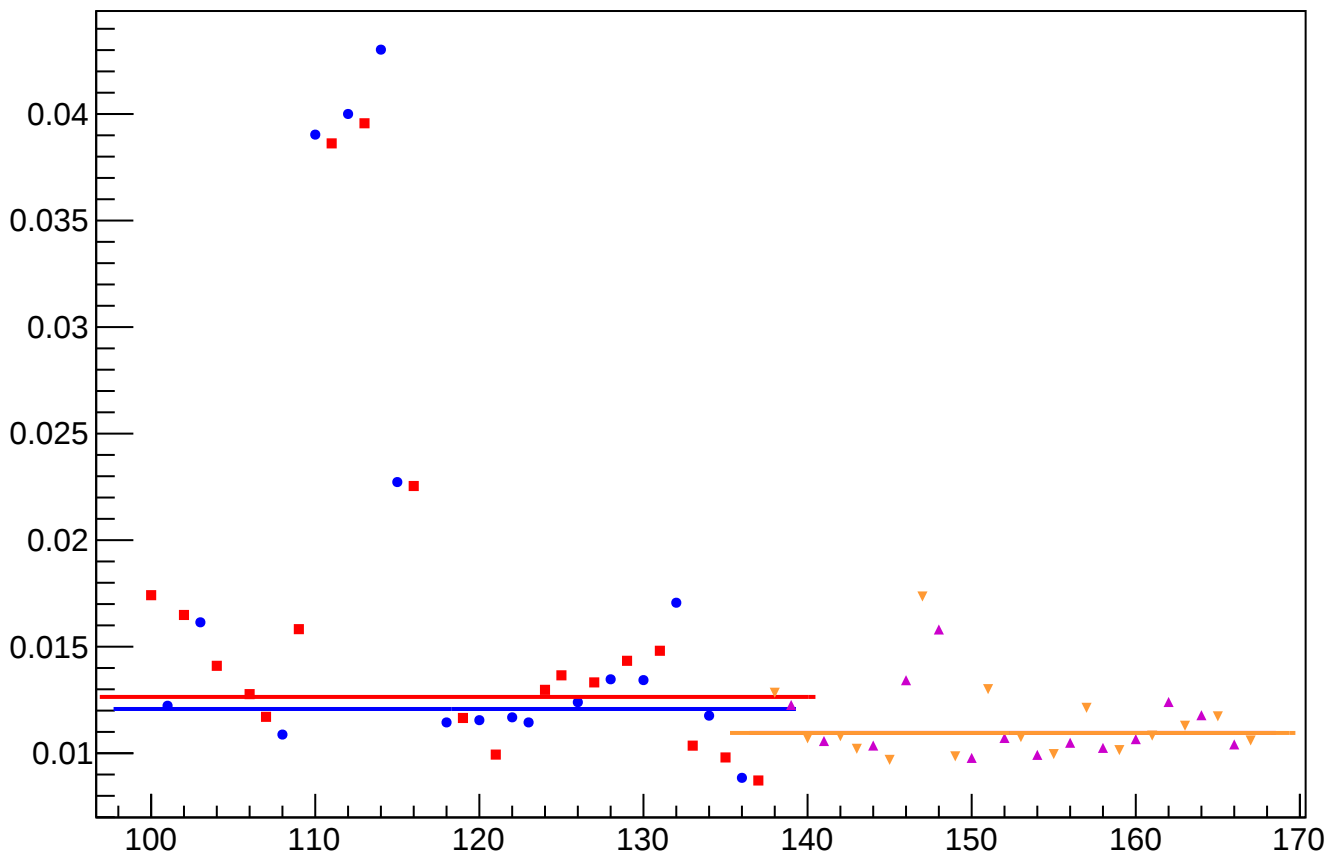
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.131+/-0.000 χ^2/NDF : 6819735909.7/30

Out: 0.138+/-0.000 χ^2/NDF : 7627374912.9/34

All: 0.134+/-0.000 χ^2/NDF : 14449845180.8/66

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1282097.7/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:371324.9/15

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1237706.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:301572.7/13

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 672897.7/29

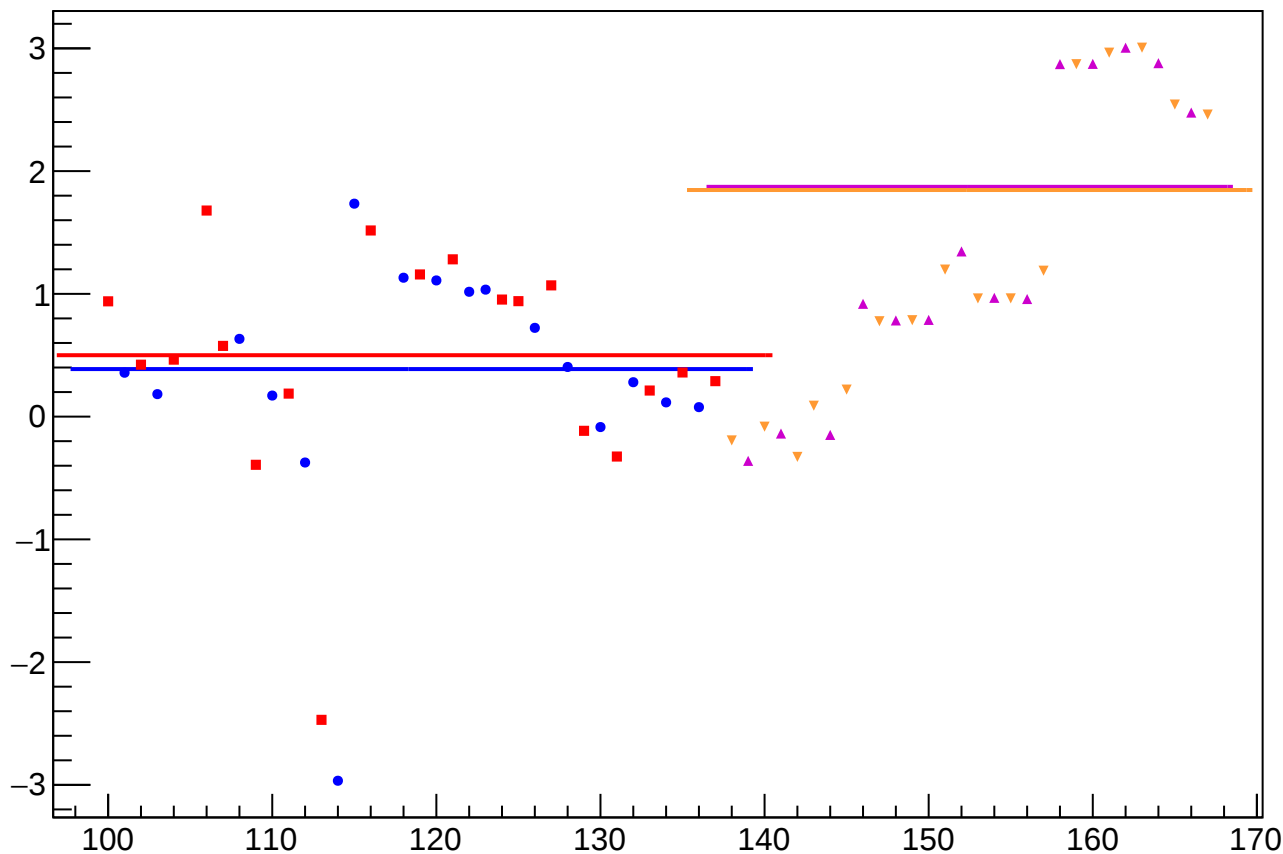
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1651142.7/30

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1760263.4/34

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3413408.4/65

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387+/-0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.846+/-0.000 χ^2/NDF :26000003887.6/15

Right Out: 0.500+/-0.000 χ^2/NDF : 983360928.1/18

Left In: 1.872+/-0.000 χ^2/NDF :27050923585.2/13

Left: 1.859+/-0.000 χ^2/NDF : 53060482232.7/29

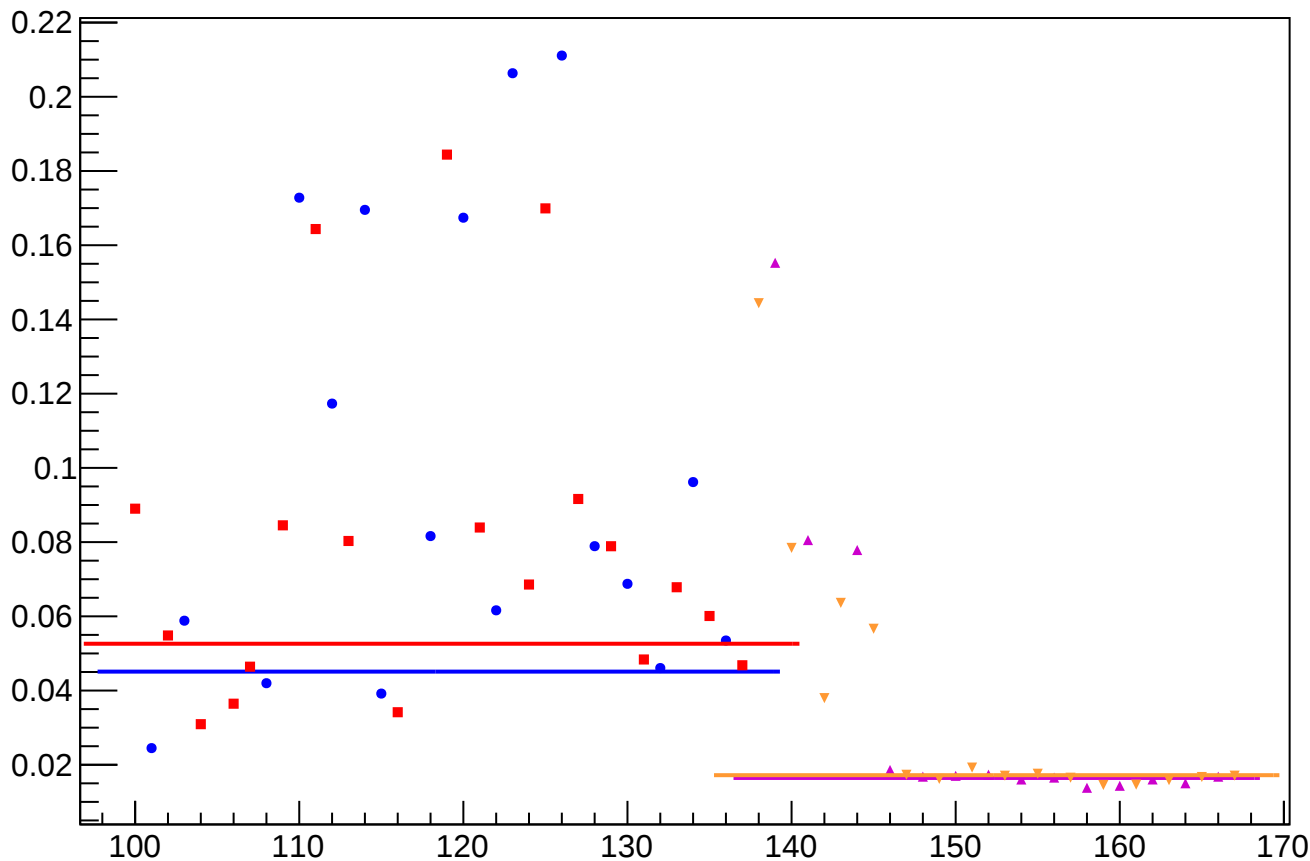
Right: 0.439+/-0.000 χ^2/NDF : 1241544973.3/35

In: 1.786+/-0.000 χ^2/NDF :30931547346.7/30

Out: 1.778+/-0.000 χ^2/NDF :29550637708.6/34

All: 1.782+/-0.000 χ^2/NDF : 60483203988.0/6

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 : 2729635.4/15

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 : 5080965.5/29

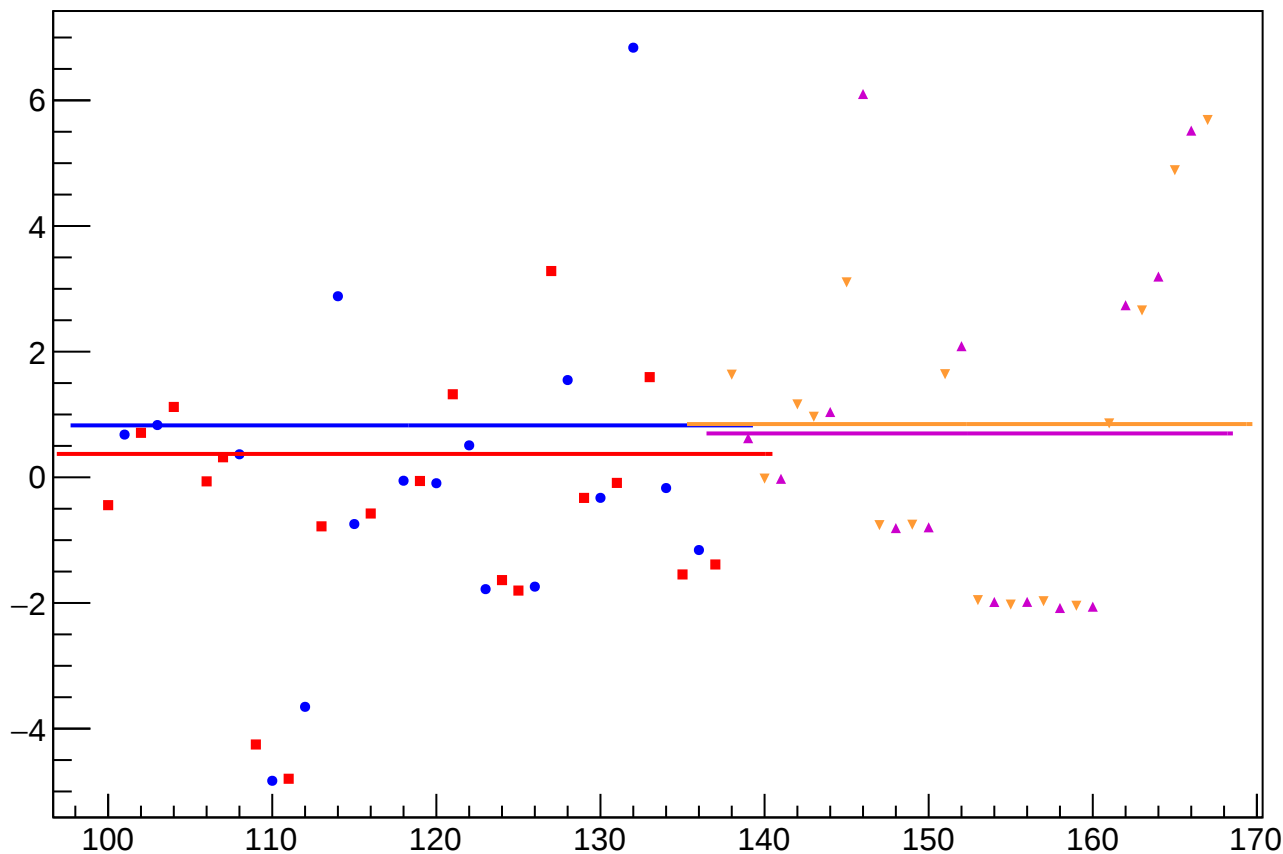
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.018+/-0.000 χ^2/NDF : 7888238.4/30

Out: 0.019+/-0.000 χ^2/NDF : 8476658.8/34

All: 0.019+/-0.000 χ^2/NDF : 16388157.6/65

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827 $\pm$ 0.000 χ^2 /NDF: 10936458870.4/16

Left Out: 0.848 $\pm$ 0.000 χ^2 /NDF: 361515688049.5/15

Right Out: 0.372 $\pm$ 0.000 χ^2 /NDF: 4972900338.2/18

Left In: 0.698 $\pm$ 0.000 χ^2 /NDF: 391543373847.3/13

Left: 0.774 $\pm$ 0.000 χ^2 /NDF: 753562633989.1/29

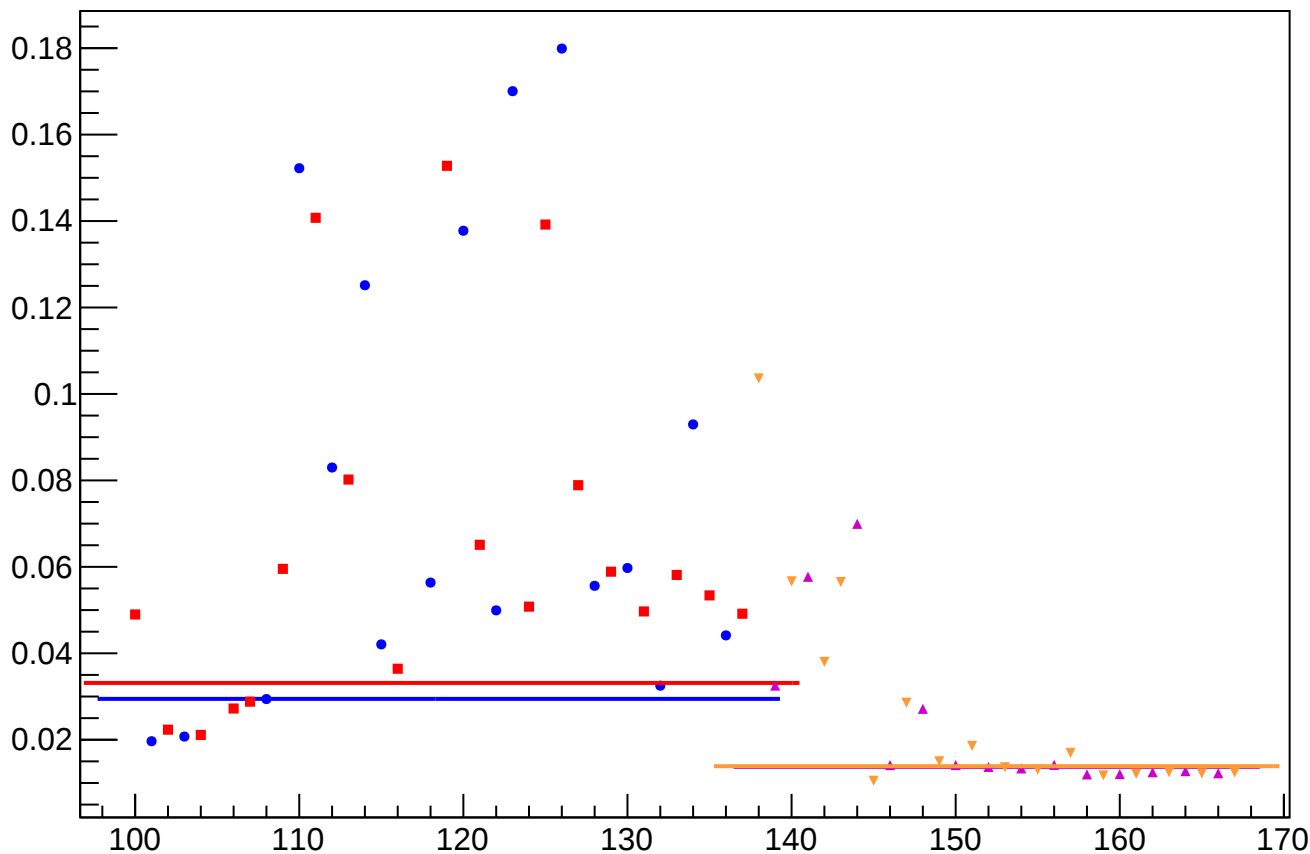
Right: 0.613 $\pm$ 0.000 χ^2 /NDF: 16291516809.6/35

In: 0.709 $\pm$ 0.000 χ^2 /NDF: 402539233941.6/30

Out: 0.814 $\pm$ 0.000 χ^2 /NDF: 367222751501.9/34

All: 0.761 $\pm$ 0.000 χ^2 /NDF: 770032152992.8

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 :2836387.4/15

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 : 4698567.2/29

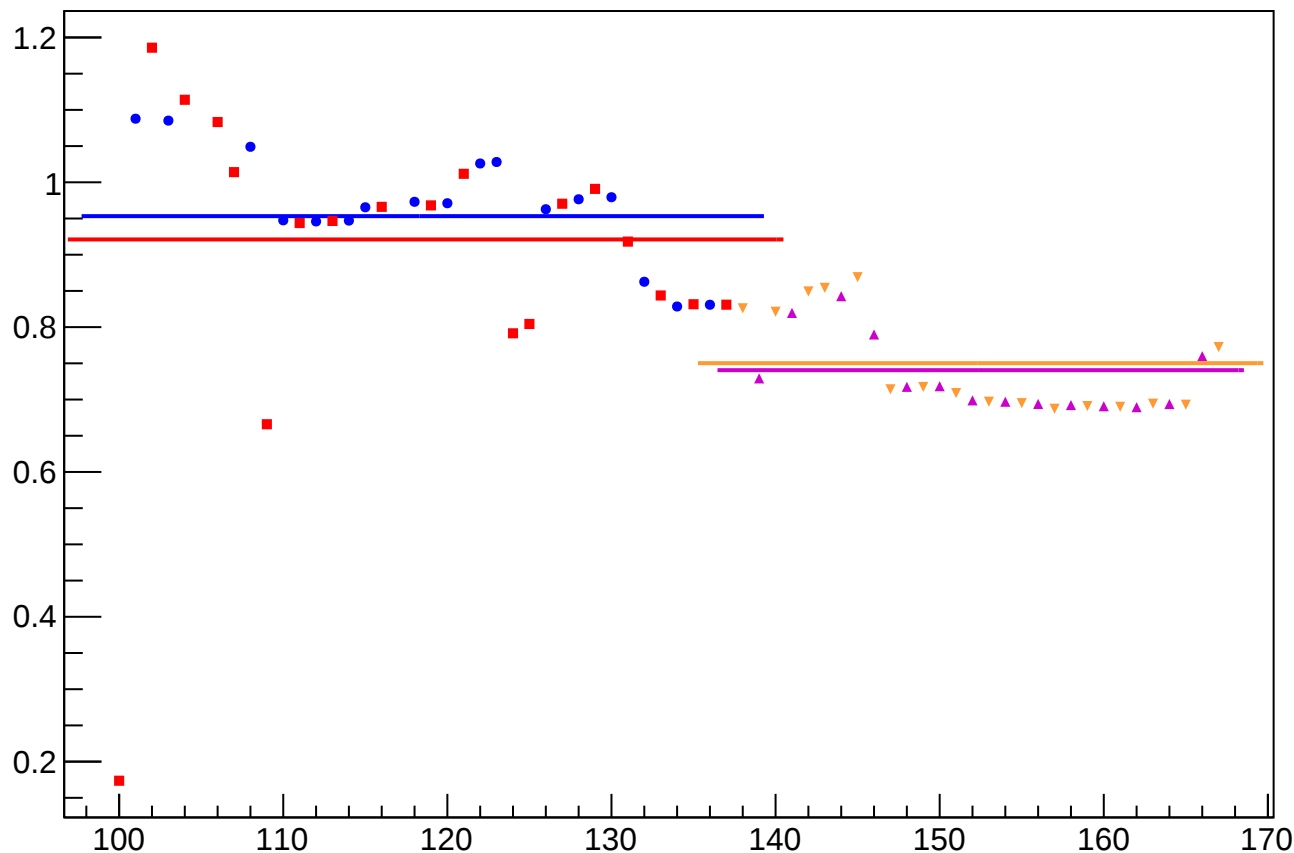
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.015+/-0.000 χ^2/NDF :6708015.4/30

Out: 0.015+/-0.000 χ^2/NDF :8345820.3/34

All: 0.015+/-0.000 χ^2/NDF : 15057233.8/65

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.750+/-0.000 χ^2/NDF :259727474.2/15

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: 0.746+/-0.000 χ^2/NDF : 418074809.6/29

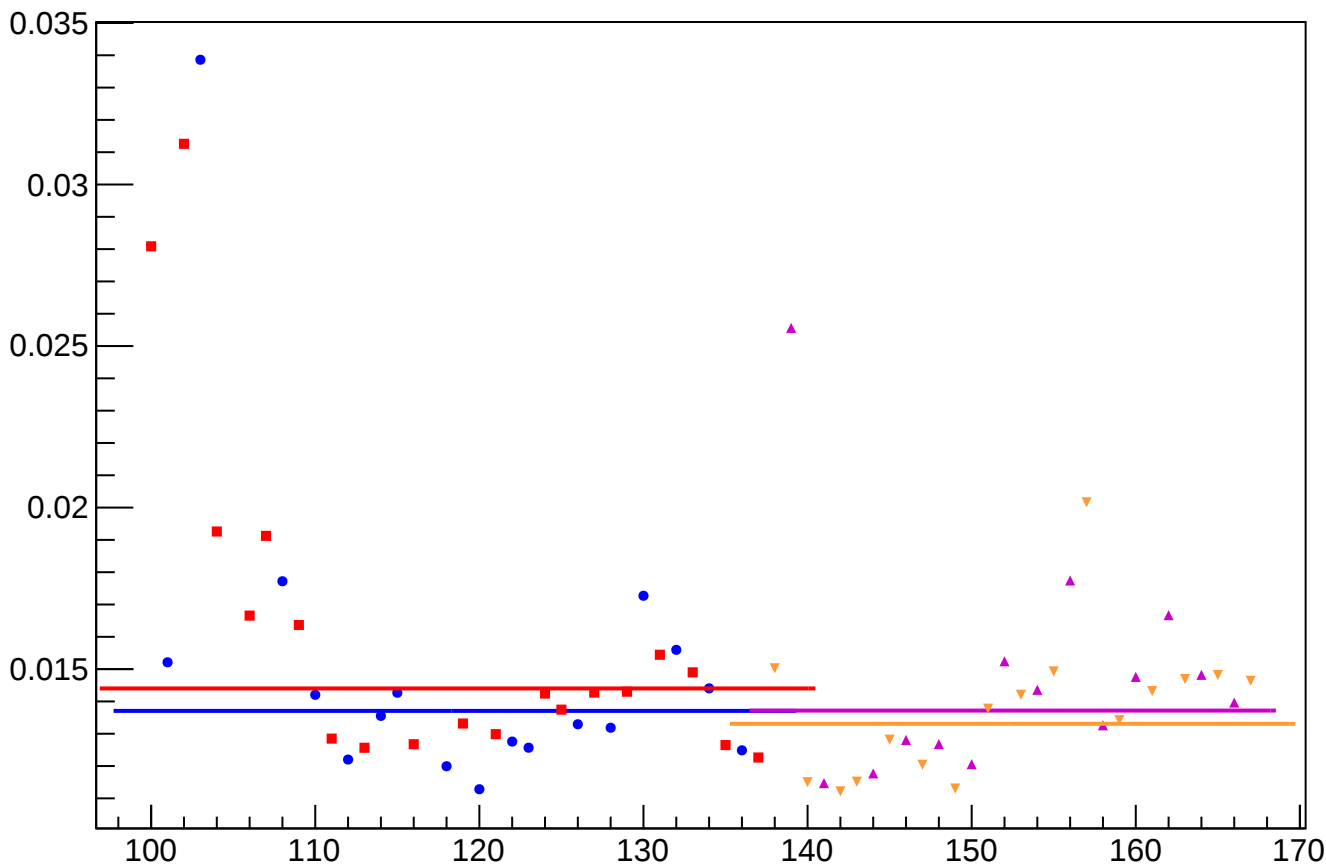
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.821+/-0.000 χ^2/NDF :1200400024.6/30

Out: 0.808+/-0.000 χ^2/NDF :1202127717.3/34

All: 0.814+/-0.000 χ^2/NDF : 2410163955.2/65

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 :366348.8/15

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 : 948403.3/29

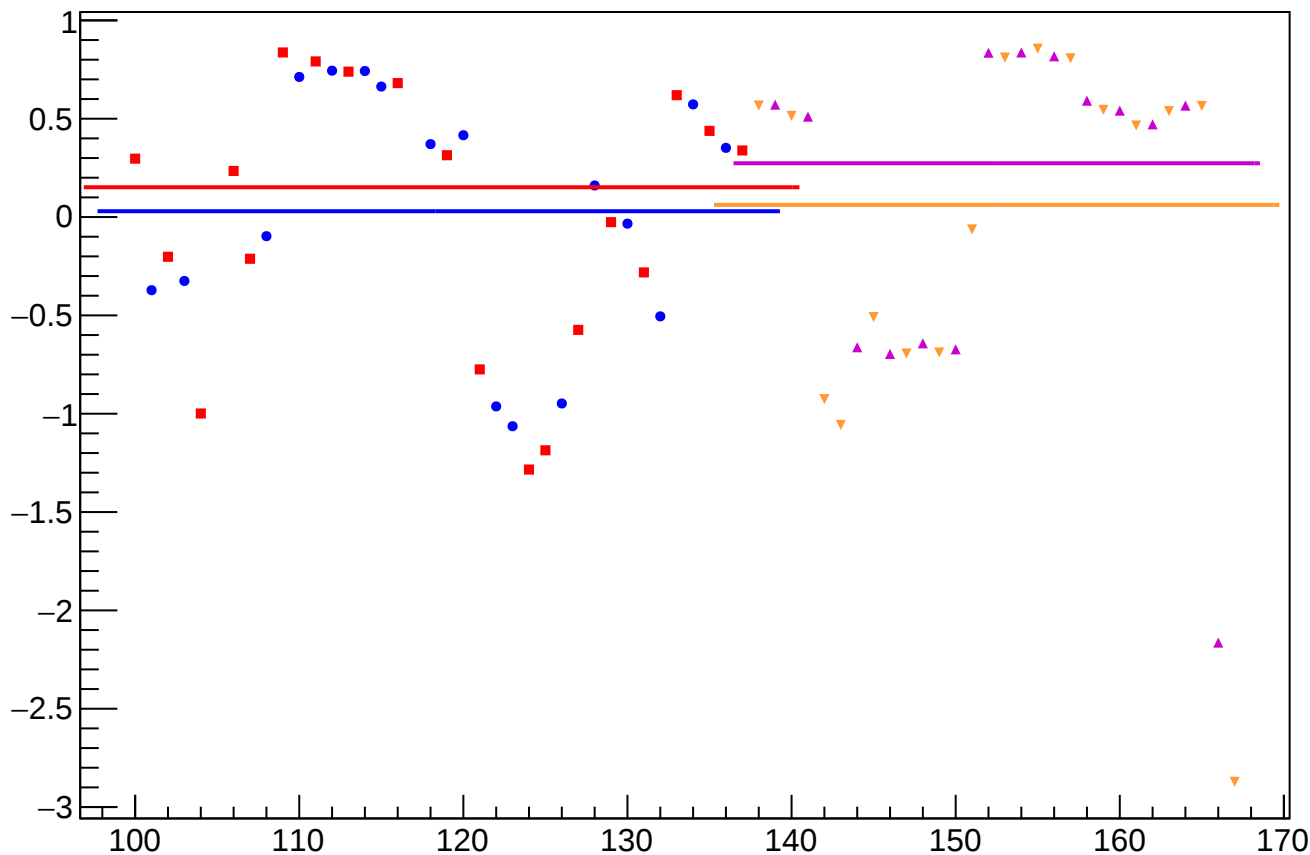
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF :1119340.1/30

Out: 0.014+/-0.000 χ^2/NDF :914688.7/34

All: 0.014+/-0.000 χ^2/NDF : 2034144.3/65

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 6294824795.0/16

Left Out: 0.062+/-0.000 χ^2/NDF : 62258224168.2/15

Right Out: 0.152+/-0.000 χ^2/NDF : 12661812059.7/18

Left In: 0.273+/-0.000 χ^2/NDF : 34290772031.3/13

Left: 0.163+/-0.000 χ^2/NDF : 98119297609.3/29

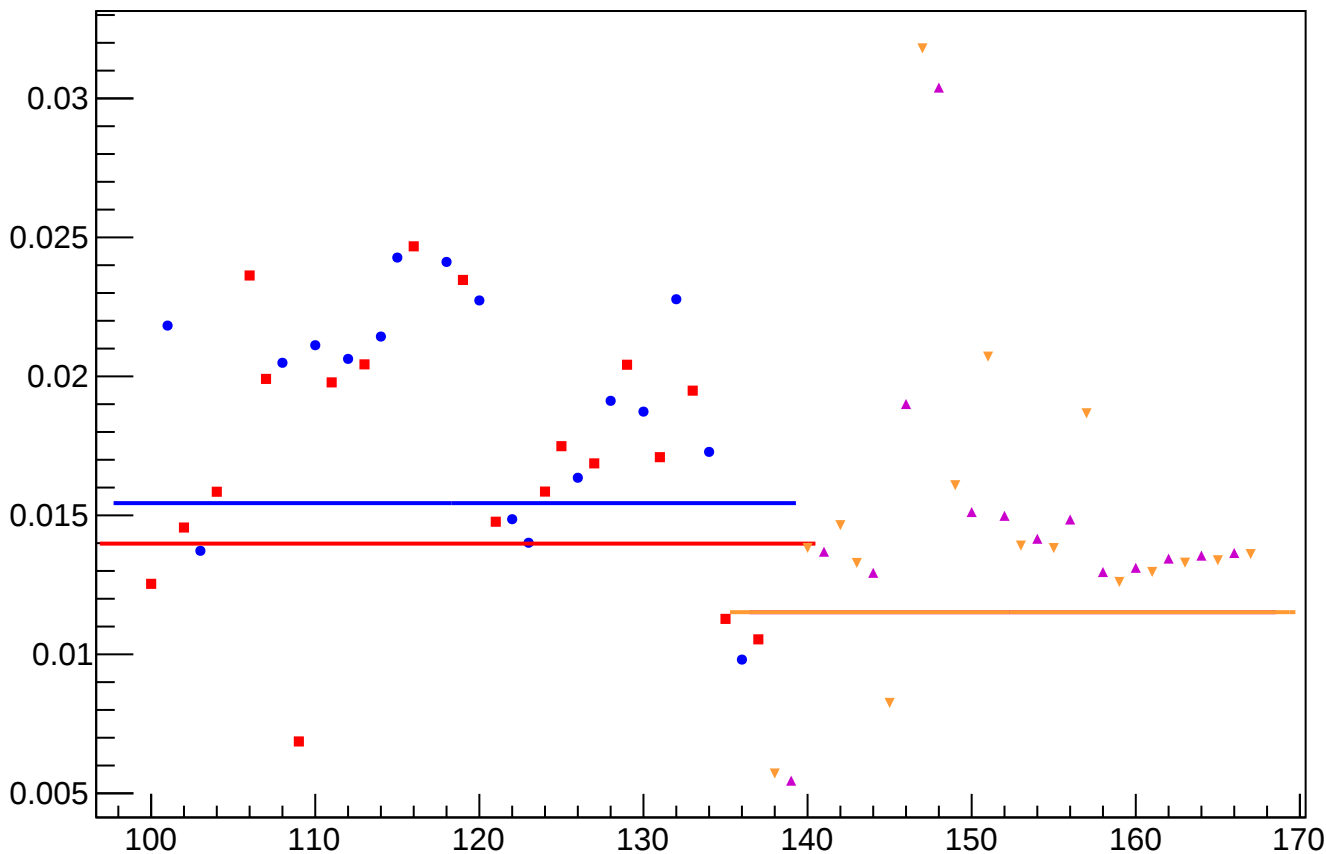
Right: 0.096+/-0.000 χ^2/NDF : 19149304558.7/35

In: 0.210+/-0.000 χ^2/NDF : 41628750442.0/30

Out: 0.087+/-0.000 χ^2/NDF : 75085484458.1/34

All: 0.145+/-0.000 χ^2/NDF : 117439964421.8

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.012+/-0.000 χ^2/NDF : 2939493.1/15

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 2863927.7/13

Left: 0.012+/-0.000 χ^2/NDF : 5803420.9/29

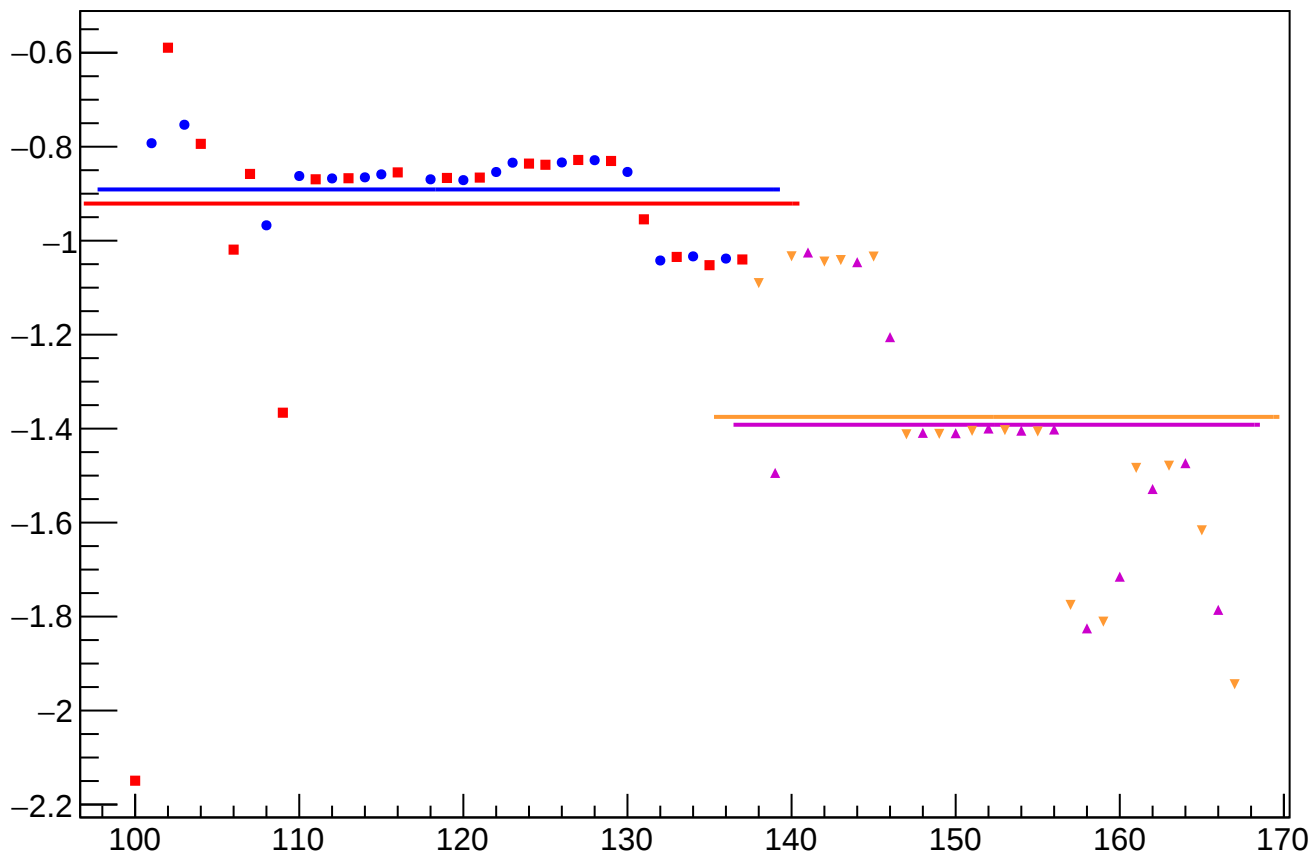
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4566045.5/30

Out: 0.012+/-0.000 χ^2/NDF : 4750612.4/34

All: 0.012+/-0.000 χ^2/NDF : 9326923.4/65

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.375+/-0.000 χ^2/NDF : 646430393.0/15

Right Out: -0.921+/-0.000 χ^2/NDF : 131183059.9/18

Left In: -1.392+/-0.000 χ^2/NDF : 471028911.6/13

Left: -1.383+/-0.000 χ^2/NDF : 1118602794.4/29

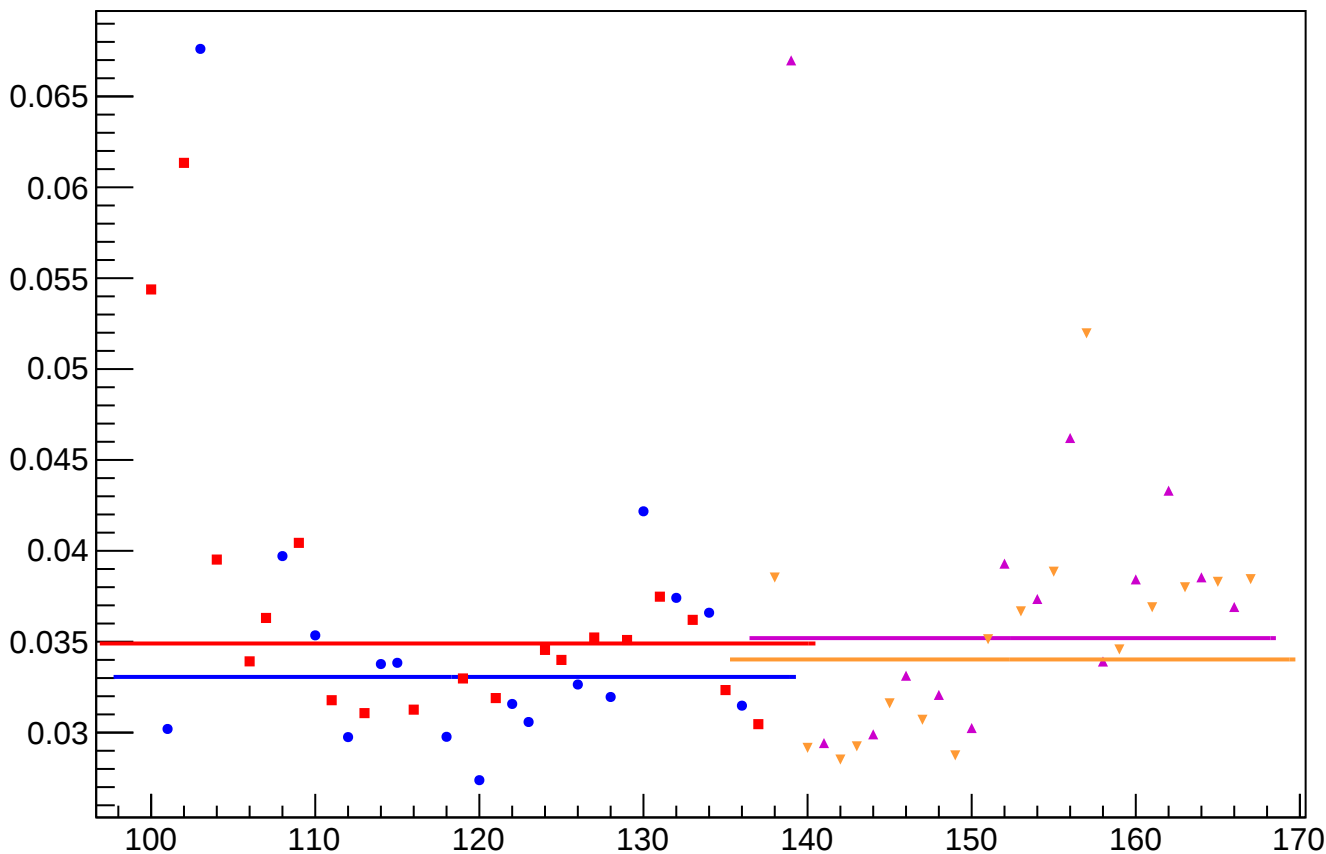
Right: -0.906+/-0.000 χ^2/NDF : 173111604.1/35

In: -1.185+/-0.000 χ^2/NDF : 1300730015.5/30

Out: -1.209+/-0.000 χ^2/NDF : 1437969193.4/34

All: -1.197+/-0.000 χ^2/NDF : 2742599379.9/6

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 409286.7/16

Left Out: 0.034+/-0.000 χ^2/NDF :406543.4/15

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.035+/-0.000 χ^2/NDF :628743.4/13

Left: 0.035+/-0.000 χ^2/NDF : 1046507.8/29

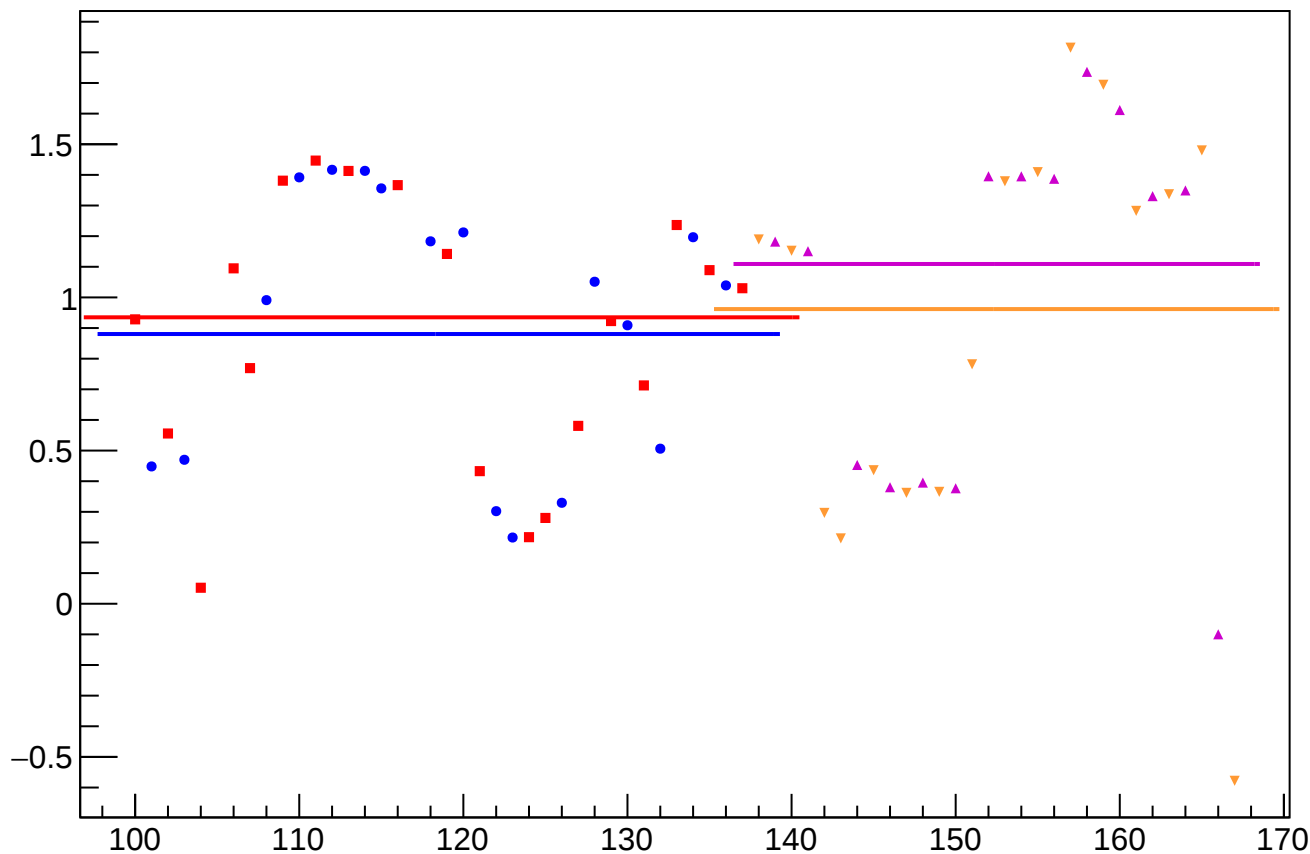
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.034+/-0.000 χ^2/NDF :1066741.7/30

Out: 0.034+/-0.000 χ^2/NDF :685759.7/34

All: 0.034+/-0.000 χ^2/NDF : 1752514.0/65

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000 χ^2 /NDF: 6400108121.4/16

Left Out: 0.962 $\pm$ 0.000 χ^2 /NDF: 53581444106.9/15

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: 1.032 $\pm$ 0.000 χ^2 /NDF: 85192860683.8/29

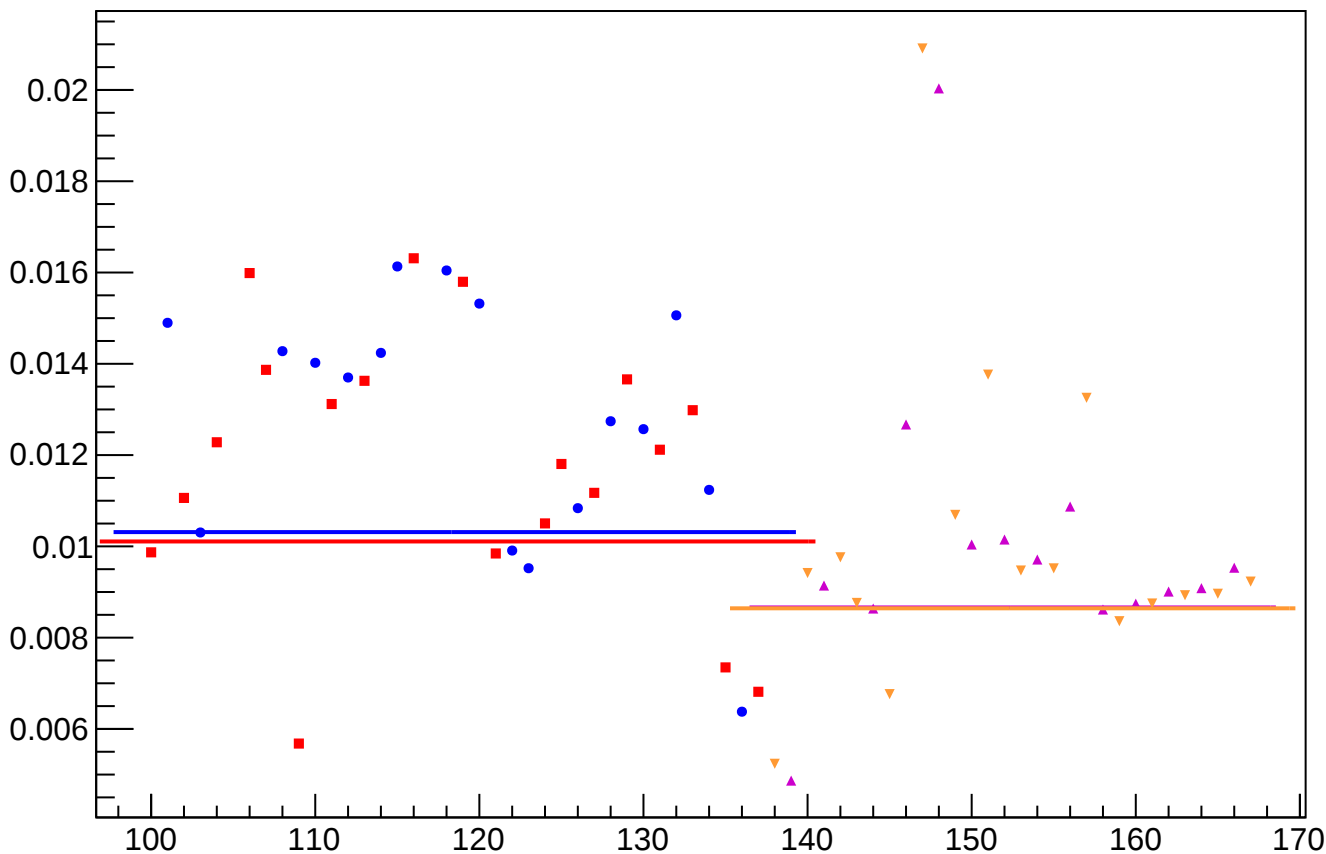
Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

In: 1.042 $\pm$ 0.000 χ^2 /NDF: 38513375798.9/30

Out: 0.954 $\pm$ 0.000 χ^2 /NDF: 63444398849.6/34

All: 0.996 $\pm$ 0.000 χ^2 /NDF: 102691072855.6

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.009+/-0.000 χ^2/NDF :1664228.5/15

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 : 3233135.4/29

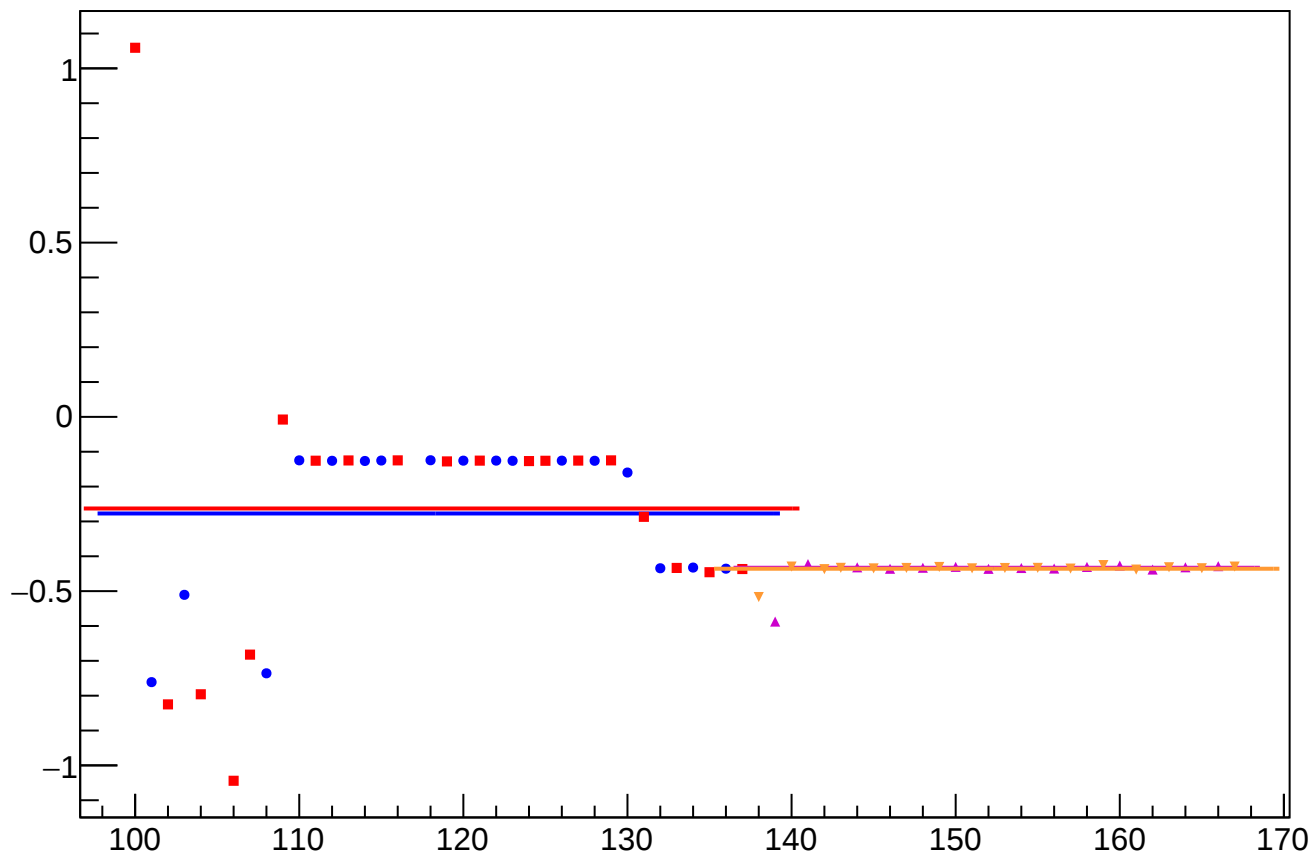
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF :3003304.4/30

Out: 0.009+/-0.000 χ^2/NDF :3017044.9/34

All: 0.009+/-0.000 χ^2/NDF : 6021511.4/65

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 : 25880532.0/15

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: -0.434+/-0.000 χ^2/NDF : 49719852.0/29

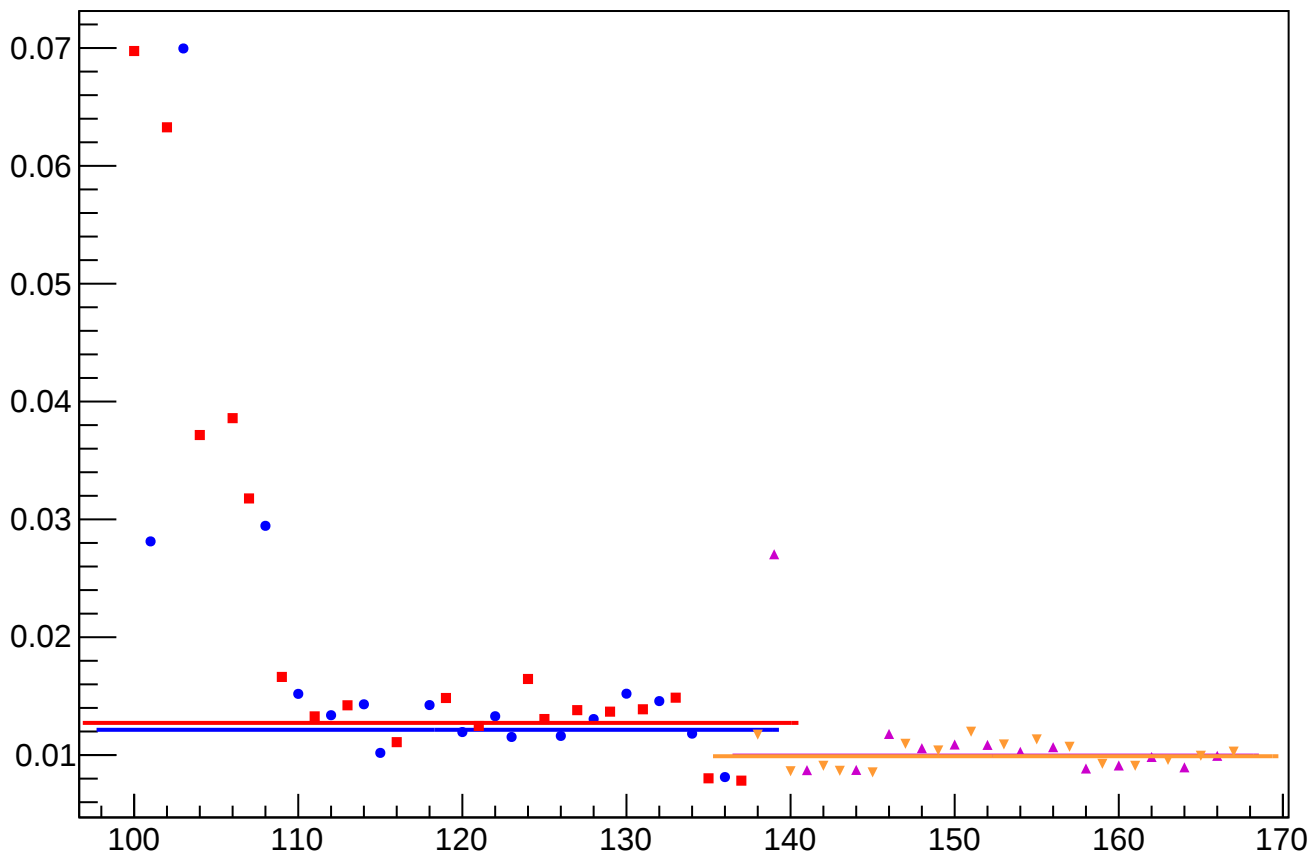
Right: -0.270+/-0.000 χ^2/NDF : 1952121842.2/35

In: -0.392+/-0.000 χ^2/NDF : 1537095952.6/30

Out: -0.396+/-0.000 χ^2/NDF : 1722936709.0/34

All: -0.394+/-0.000 χ^2/NDF : 3260987770.0/6

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:226234.5/15

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: 920406.5/29

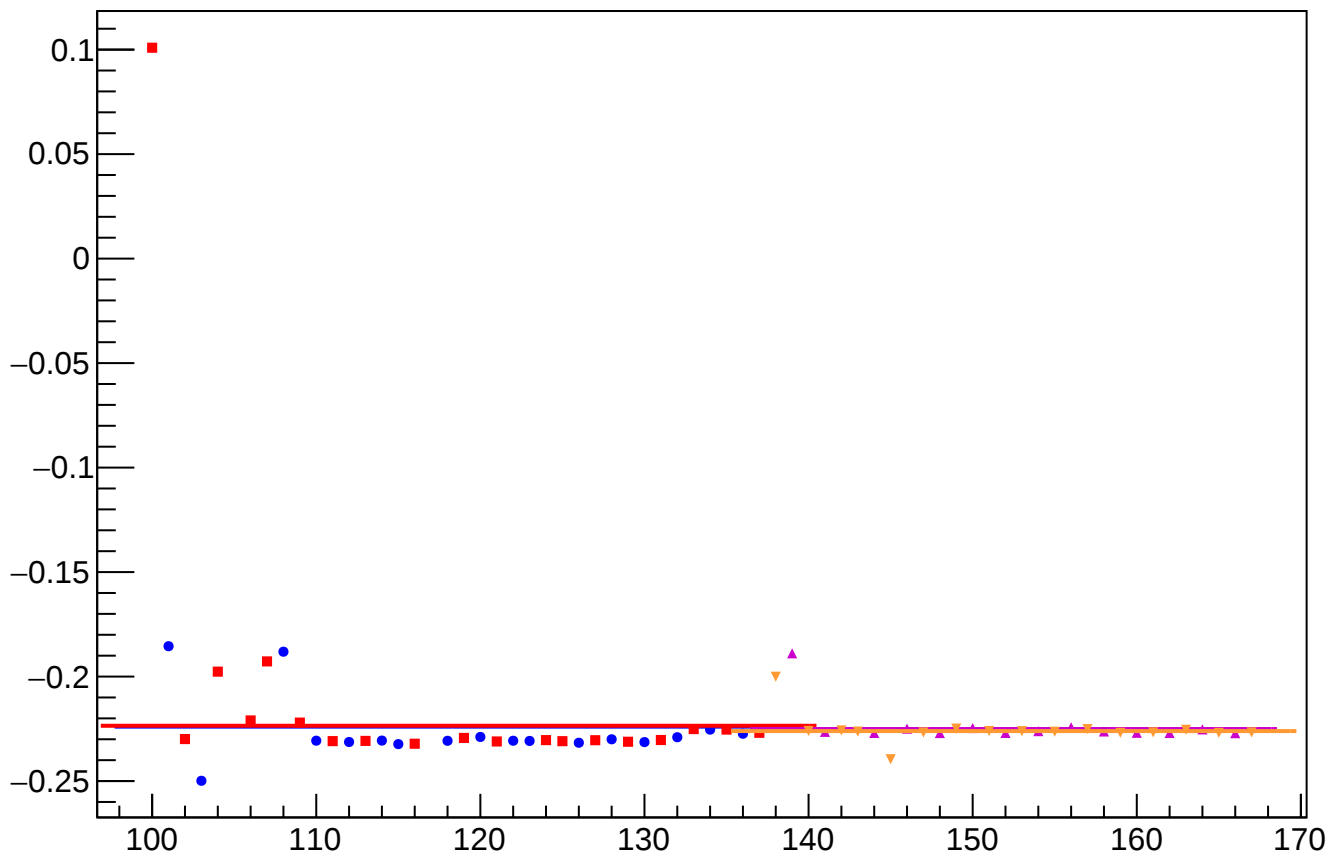
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2647479.5/30

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2564303.3/34

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5211841.0/65

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 : 20611852.5/15

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 : 35138613.1/29

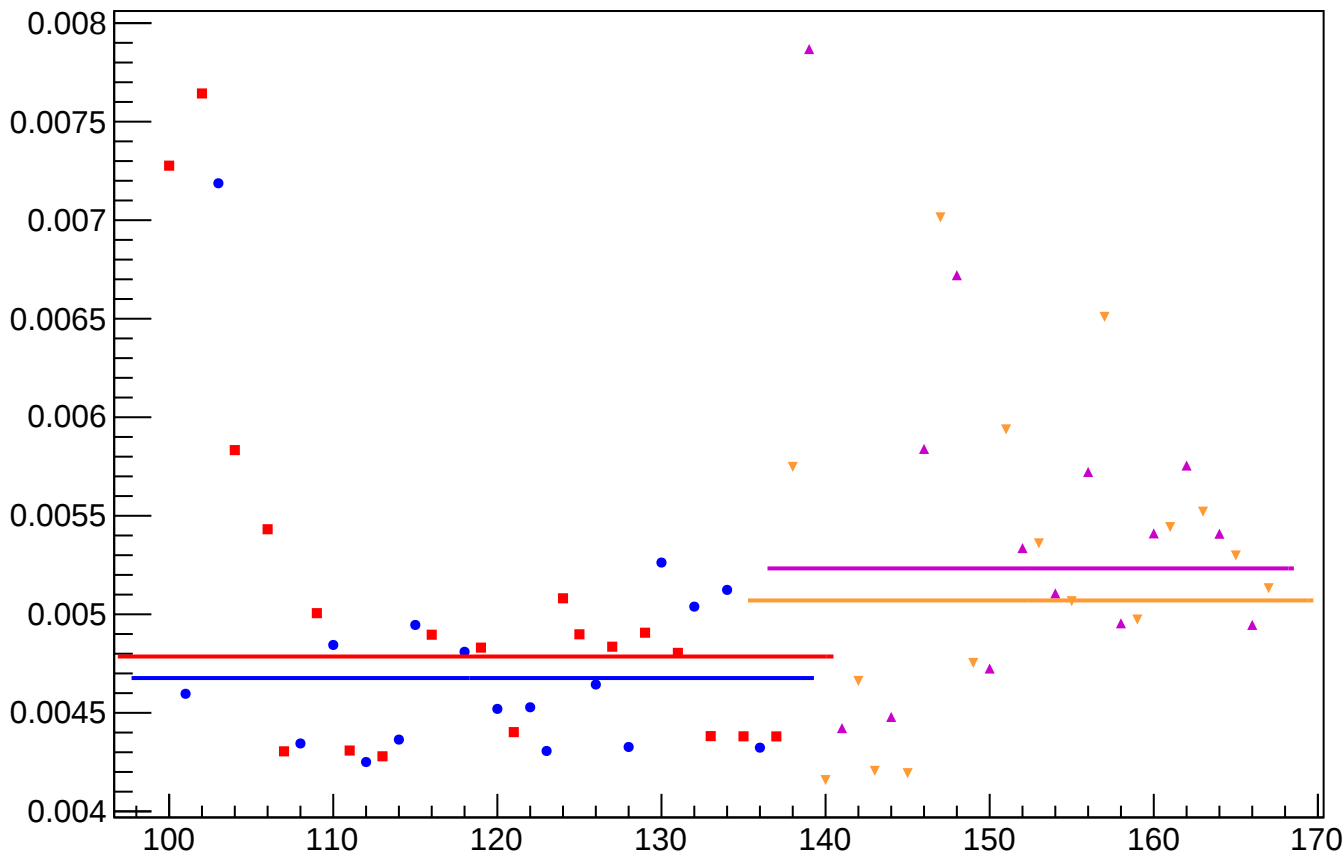
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89251267.4/30

Out: -0.225+/-0.000 χ^2/NDF : 189821515.8/34

All: -0.225+/-0.000 χ^2/NDF : 279147327.8/65

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 : 447744.7/15

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 : 844263.9/29

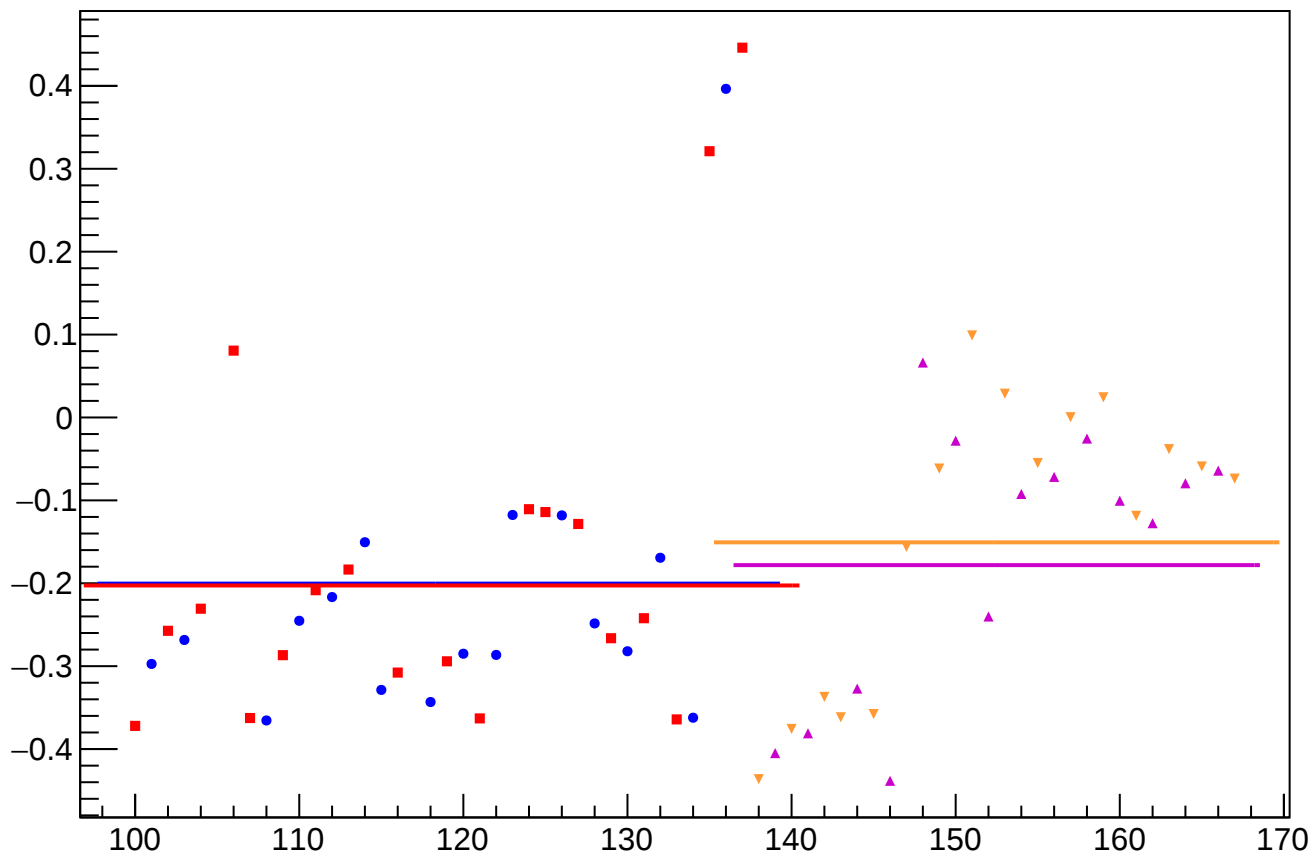
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 665159.6/30

Out: 0.005+/-0.000 χ^2/NDF : 723233.5/34

All: 0.005+/-0.000 χ^2/NDF : 1389313.8/65

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5973556486.0/16$

Left Out: -0.151 ± 0.000 $\chi^2/\text{NDF}: 11174994758.1/15$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5028268807.1/18$

Left In: -0.178 ± 0.000 $\chi^2/\text{NDF}: 7883772801.6/13$

Left: -0.164 ± 0.000 $\chi^2/\text{NDF}: 19193888059.2/29$

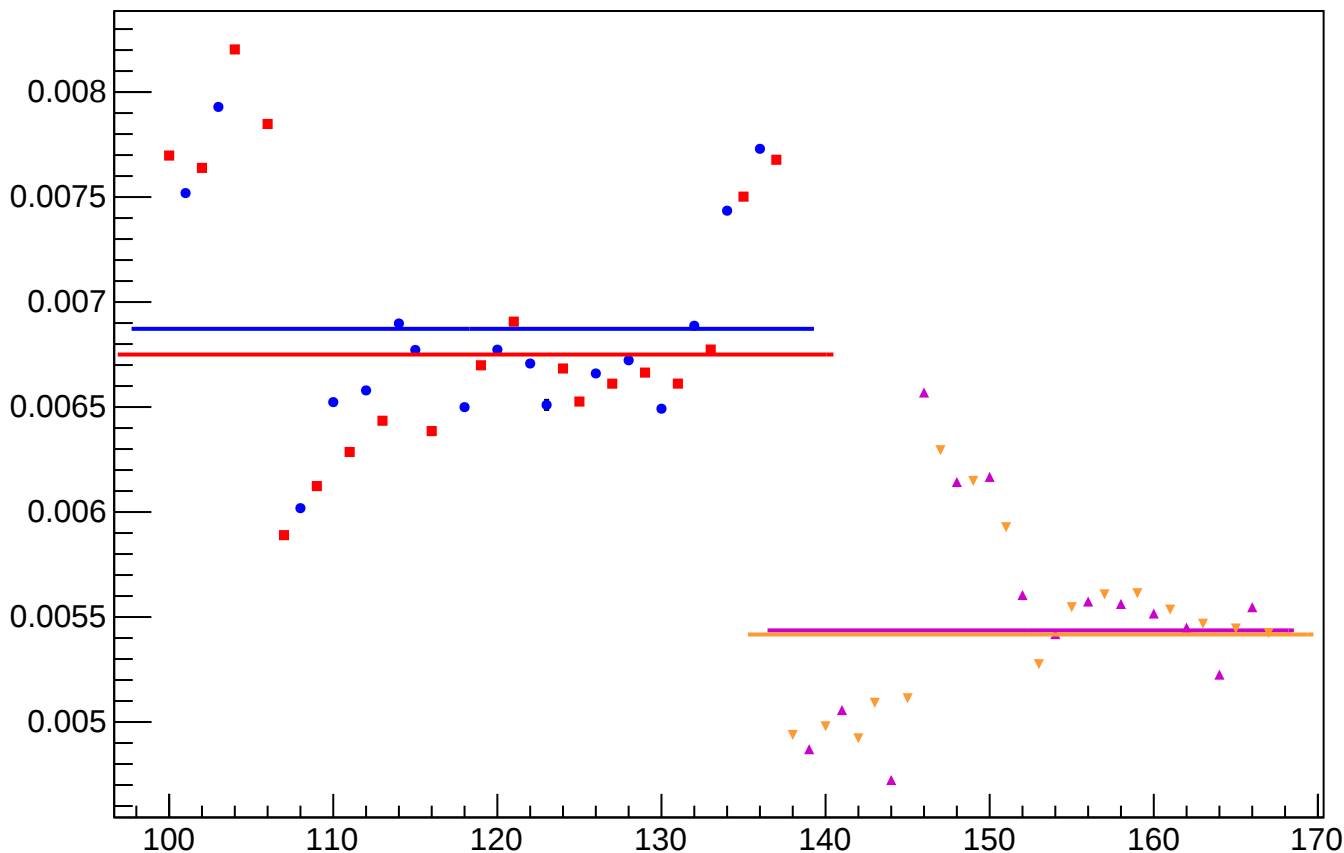
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 11002181720.9/35$

In: -0.185 ± 0.000 $\chi^2/\text{NDF}: 13906419336.4/30$

Out: -0.165 ± 0.000 $\chi^2/\text{NDF}: 16495062285.0/34$

All: -0.175 ± 0.000 $\chi^2/\text{NDF}: 30493341468.0/72$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 78611.6/16

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:105572.0/15

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 105124.4/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:146204.1/13

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 251912.5/29

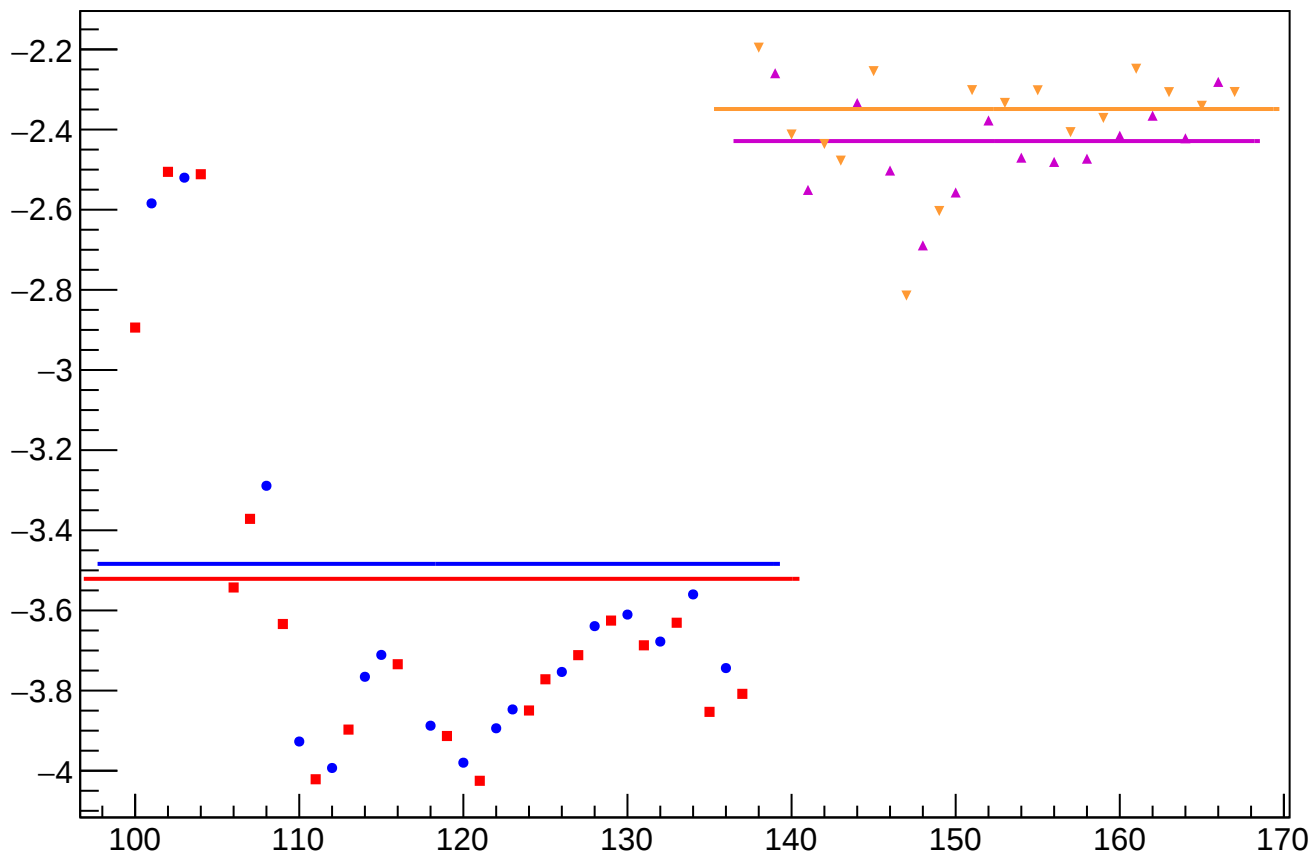
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 185903.4/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:631488.2/30

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:594035.1/34

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1227106.6/65

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.349+/-0.000 χ^2/NDF : 1675521023.4/15

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.429+/-0.000 χ^2/NDF : 1097305166.8/13

Left: -2.386+/-0.000 χ^2/NDF : 3203813889.1/29

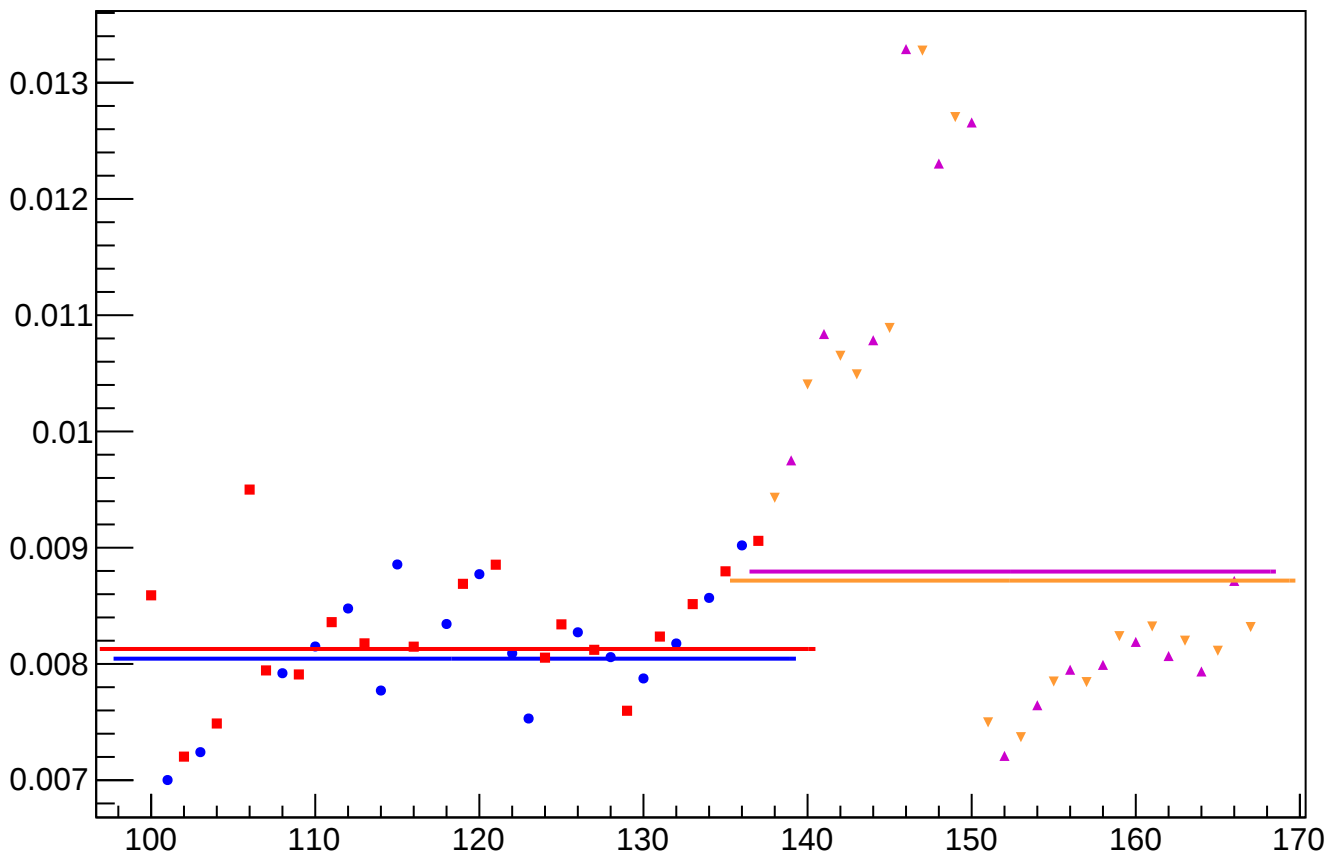
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.894+/-0.000 χ^2/NDF : 90839457792.1/30

Out: -2.839+/-0.000 χ^2/NDF : 110131369987.0/34

All: -2.866+/-0.000 χ^2/NDF : 201327173371.1

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 : 593111.7/15

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 : 1292691.4/29

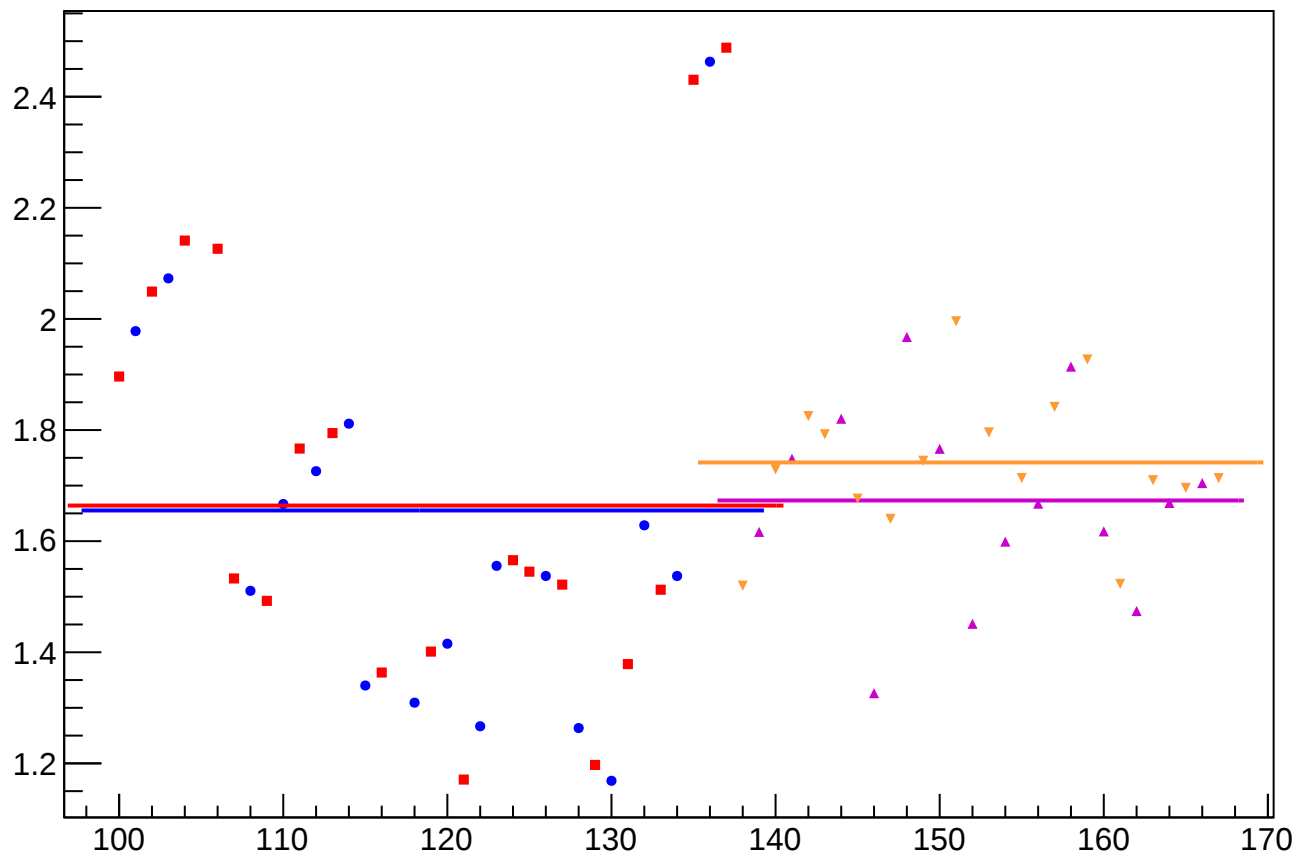
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 833877.7/30

Out: 0.008+/-0.000 χ^2/NDF : 691862.1/34

All: 0.008+/-0.000 χ^2/NDF : 1525750.4/65

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.742+/-0.000 χ^2/NDF : 1523208870.0/15

Right Out: 1.664+/-0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.673+/-0.000 χ^2/NDF : 2247533421.8/13

Left: 1.709+/-0.000 χ^2/NDF : 3986877182.4/29

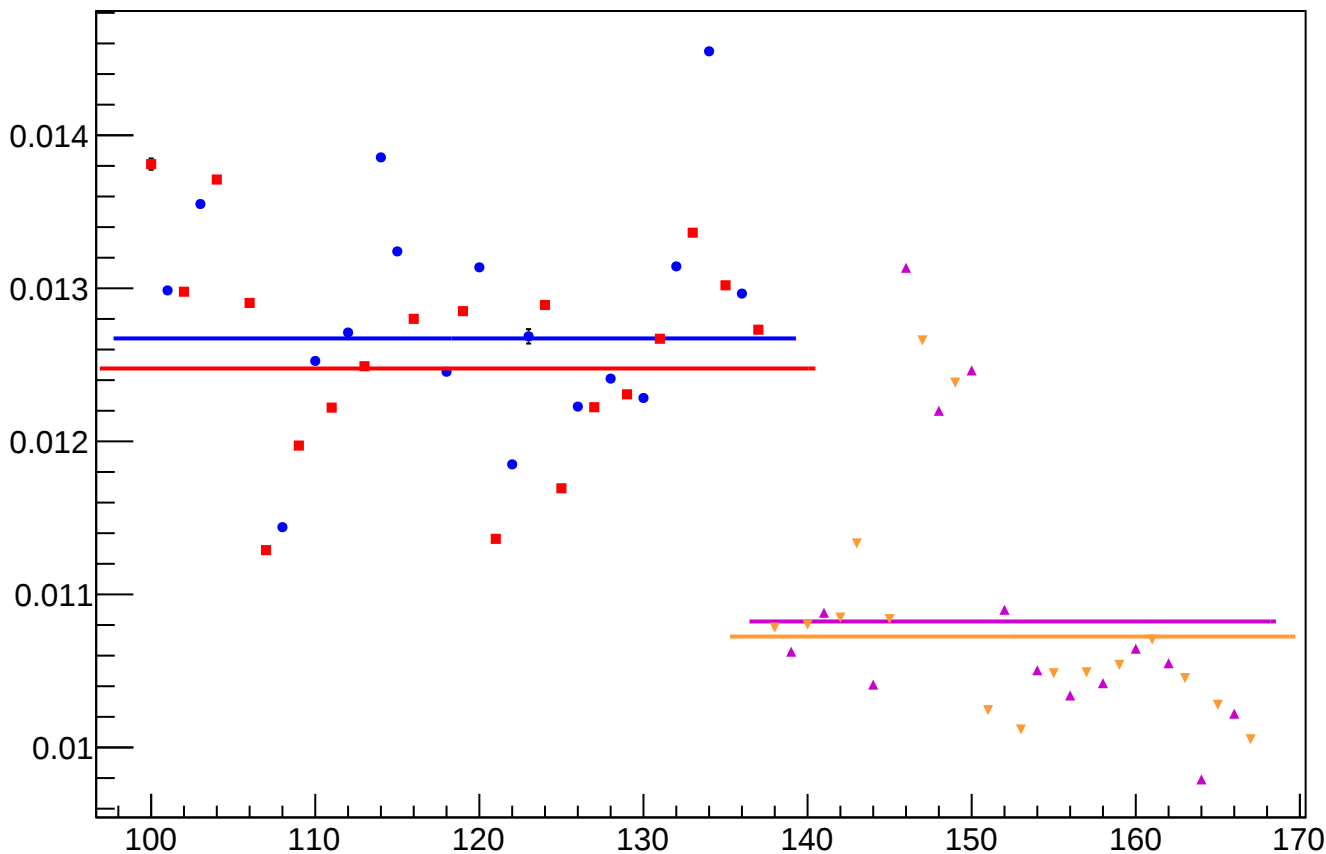
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.668+/-0.000 χ^2/NDF : 8733021044.1/30

Out: 1.718+/-0.000 χ^2/NDF : 7651050764.9/34

All: 1.694+/-0.000 χ^2/NDF : 16552825418.3/66

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :84990.0/15

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 : 203066.9/29

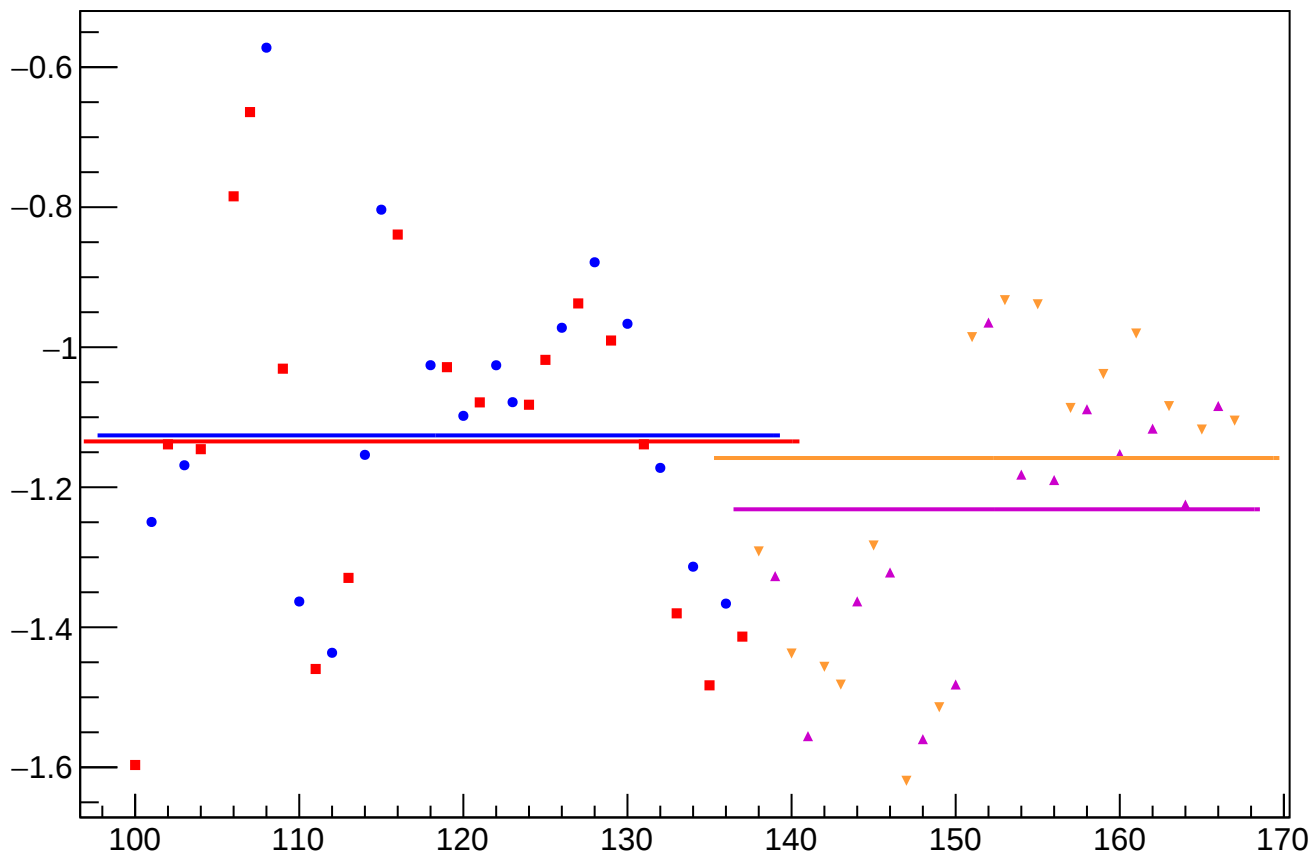
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :339273.3/30

Out: 0.011+/-0.000 χ^2/NDF :311157.5/34

All: 0.011+/-0.000 χ^2/NDF : 653208.7/65

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.158+/-0.000 χ^2/NDF : 7088748806.3/15

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.231+/-0.000 χ^2/NDF : 4404389388.5/13

Left: -1.192+/-0.000 χ^2/NDF : 11916669325.9/29

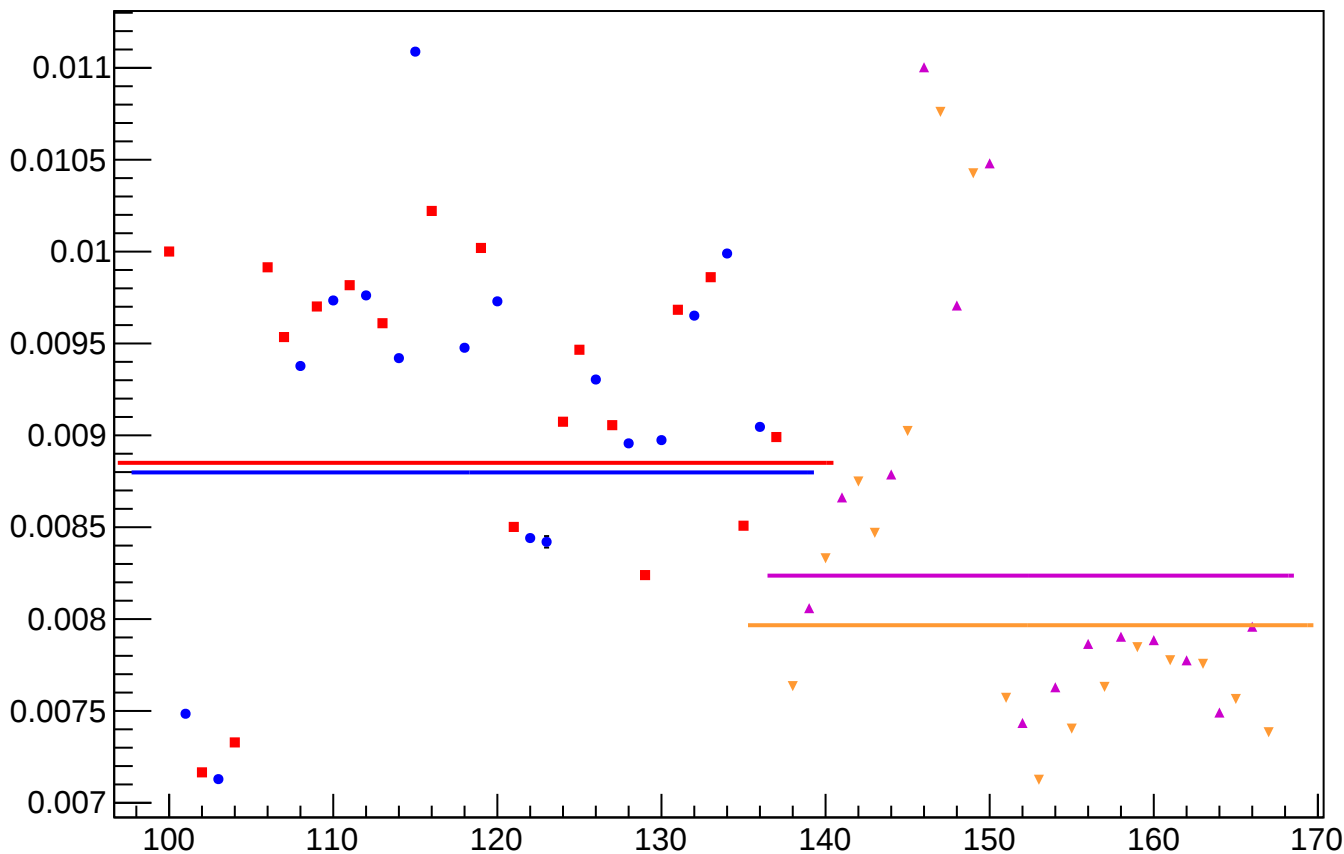
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.194+/-0.000 χ^2/NDF : 8567143669.9/30

Out: -1.150+/-0.000 χ^2/NDF : 10797904545.4/34

All: -1.171+/-0.000 χ^2/NDF : 19590264368.6/78

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 :244188.1/15

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 : 498345.3/29

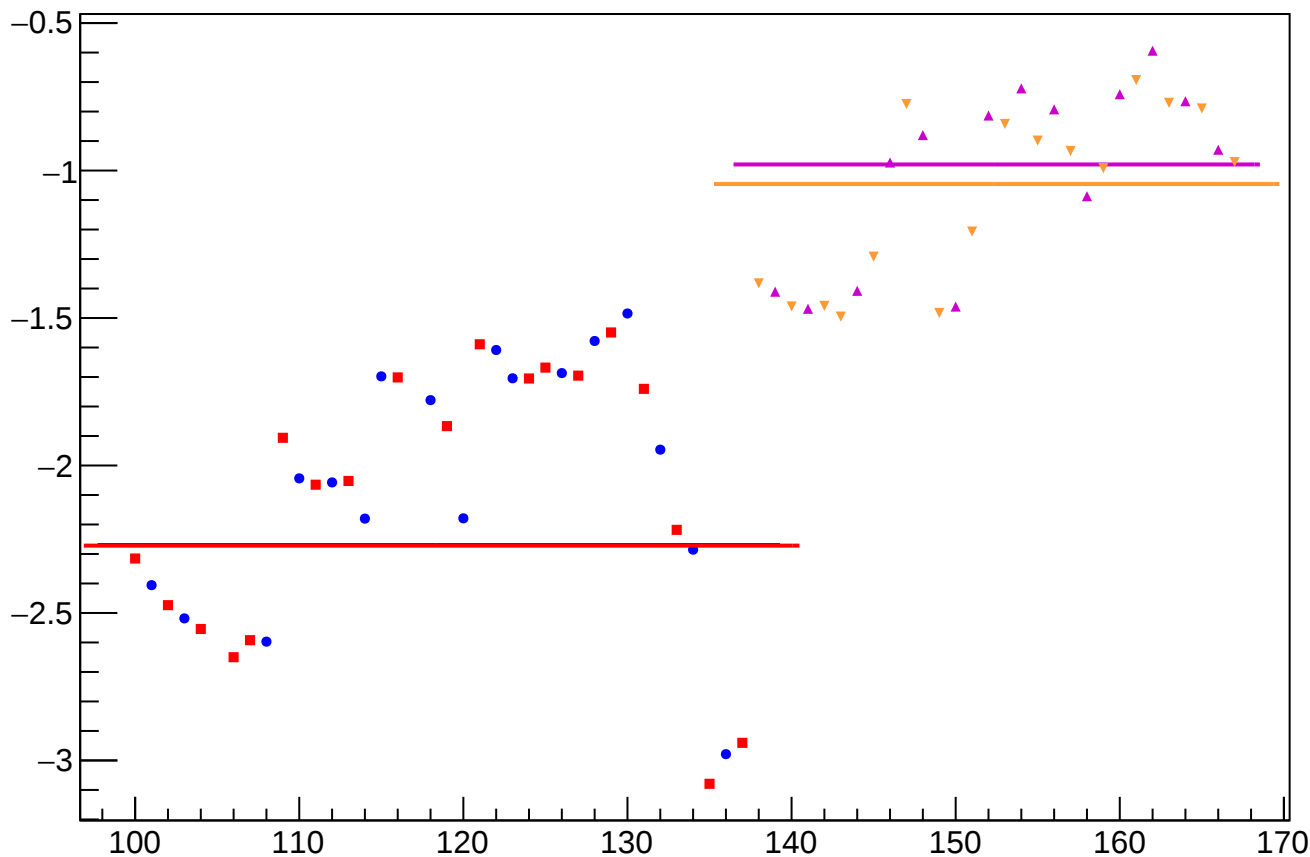
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF :427551.8/30

Out: 0.008+/-0.000 χ^2/NDF :506396.2/34

All: 0.008+/-0.000 χ^2/NDF : 941675.8/65

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.046+/-0.000 χ^2/NDF : 17506060793.5/15

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.979+/-0.000 χ^2/NDF : 17738407405.3/13

Left: -1.014+/-0.000 χ^2/NDF : 35753795793.2/29

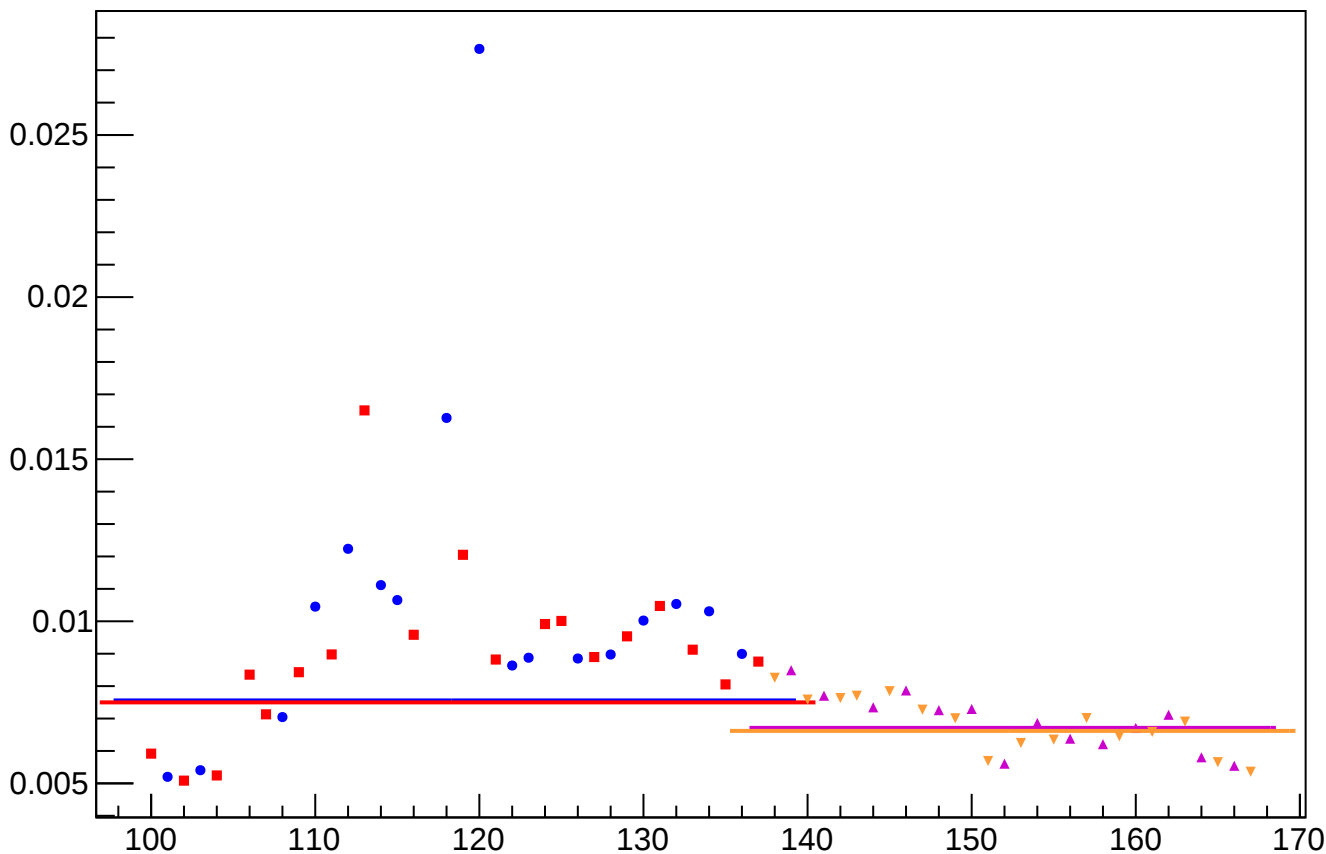
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.349+/-0.000 χ^2/NDF : 139842640909.6/30

Out: -1.402+/-0.000 χ^2/NDF : 142725967732.7/34

All: -1.376+/-0.000 χ^2/NDF : 283023214853.1

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 :330503.3/15

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 : 629143.8/29

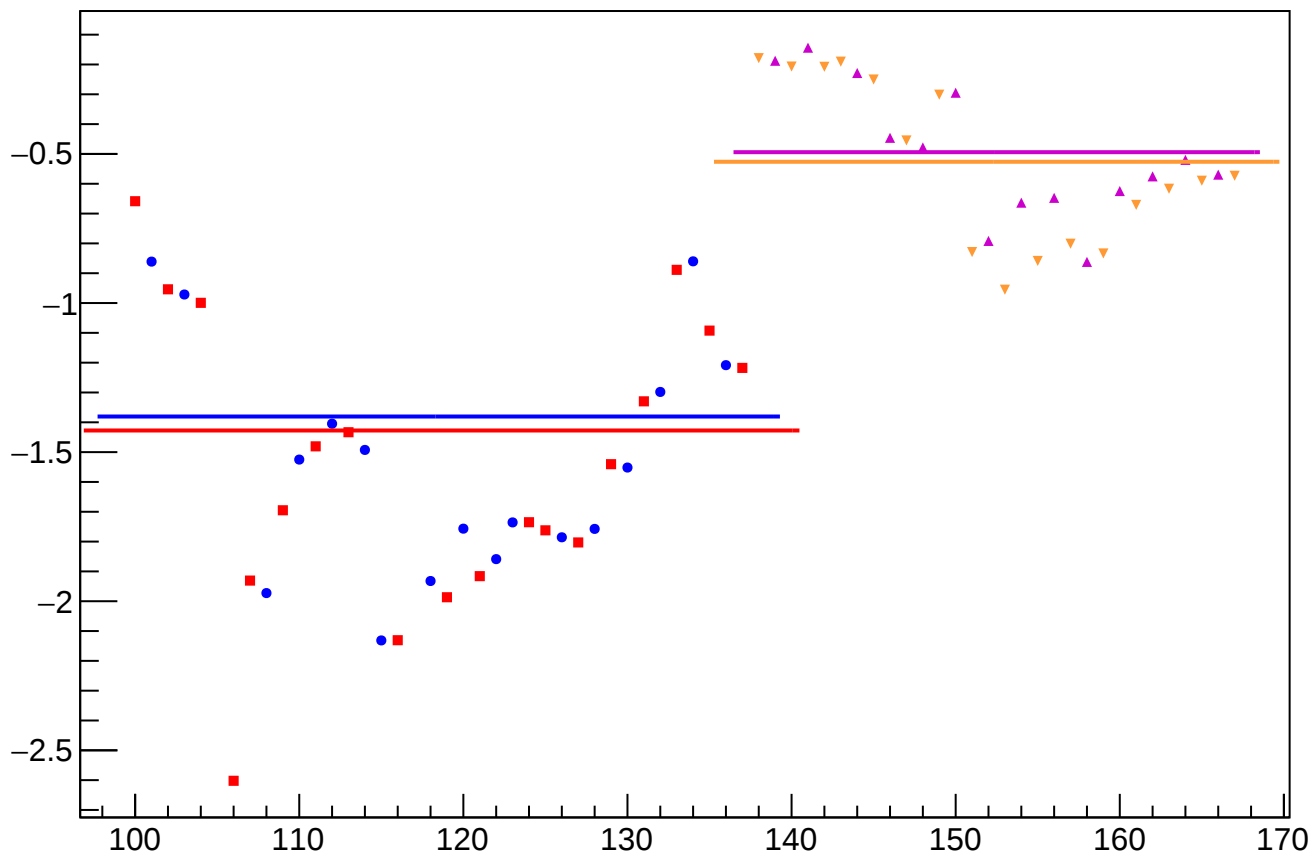
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF :1607662.5/30

Out: 0.007+/-0.000 χ^2/NDF :1373843.6/34

All: 0.007+/-0.000 χ^2/NDF : 2983584.2/65

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381 ± 0.000 $\chi^2/\text{NDF}: 20001018652.5/16$

Left Out: -0.526 ± 0.000 $\chi^2/\text{NDF}: 44582356936.9/15$

Right Out: -1.427 ± 0.000 $\chi^2/\text{NDF}: 29616178528.0/18$

Left In: -0.494 ± 0.000 $\chi^2/\text{NDF}: 28221066371.1/13$

Left: -0.511 ± 0.000 $\chi^2/\text{NDF}: 73109949255.5/29$

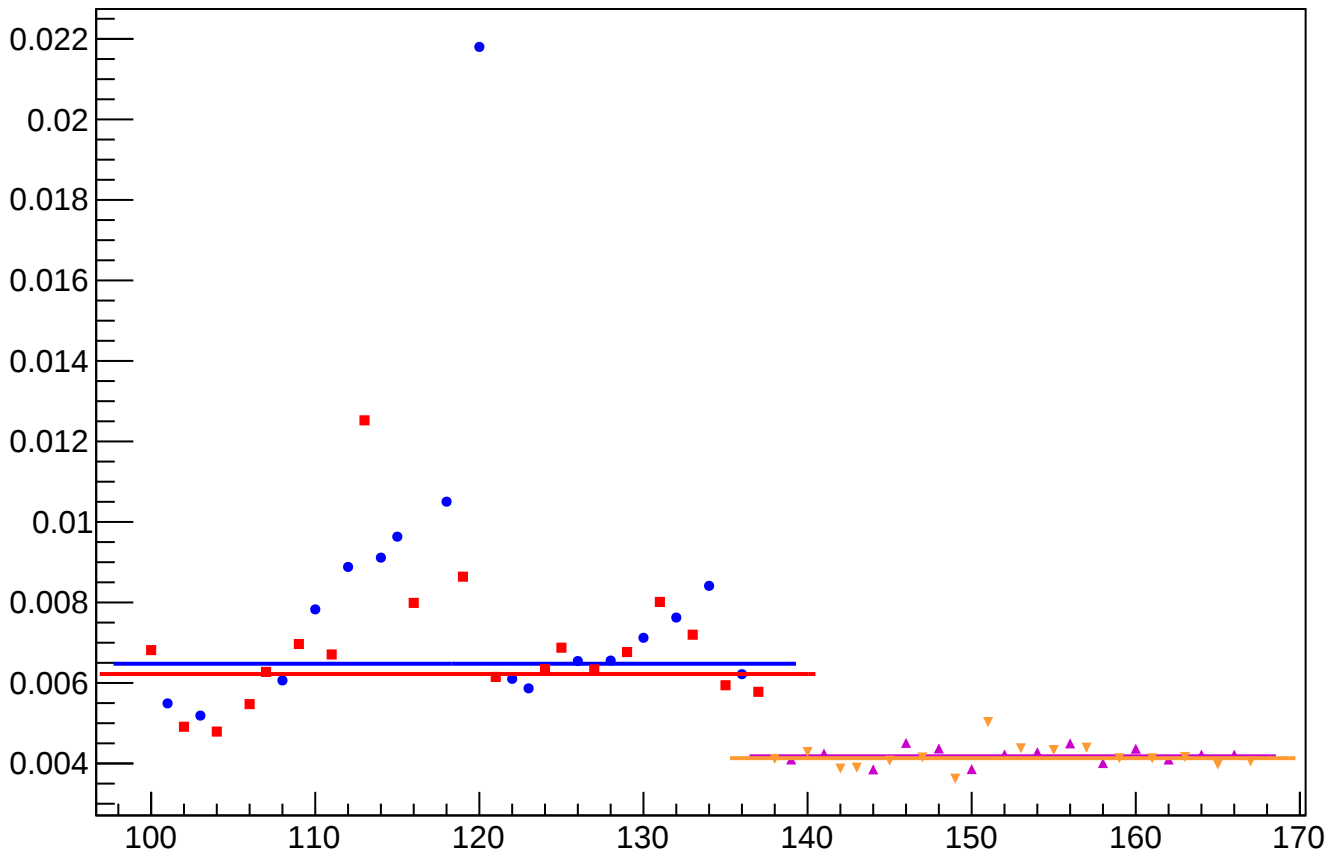
Right: -1.406 ± 0.000 $\chi^2/\text{NDF}: 49770978716.8/35$

In: -0.660 ± 0.000 $\chi^2/\text{NDF}: 131138730917.1/30$

Out: -0.702 ± 0.000 $\chi^2/\text{NDF}: 173486918703.2/34$

All: -0.682 ± 0.000 $\chi^2/\text{NDF}: 305274835042.8$

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 : 89945.9/15

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 : 138095.6/29

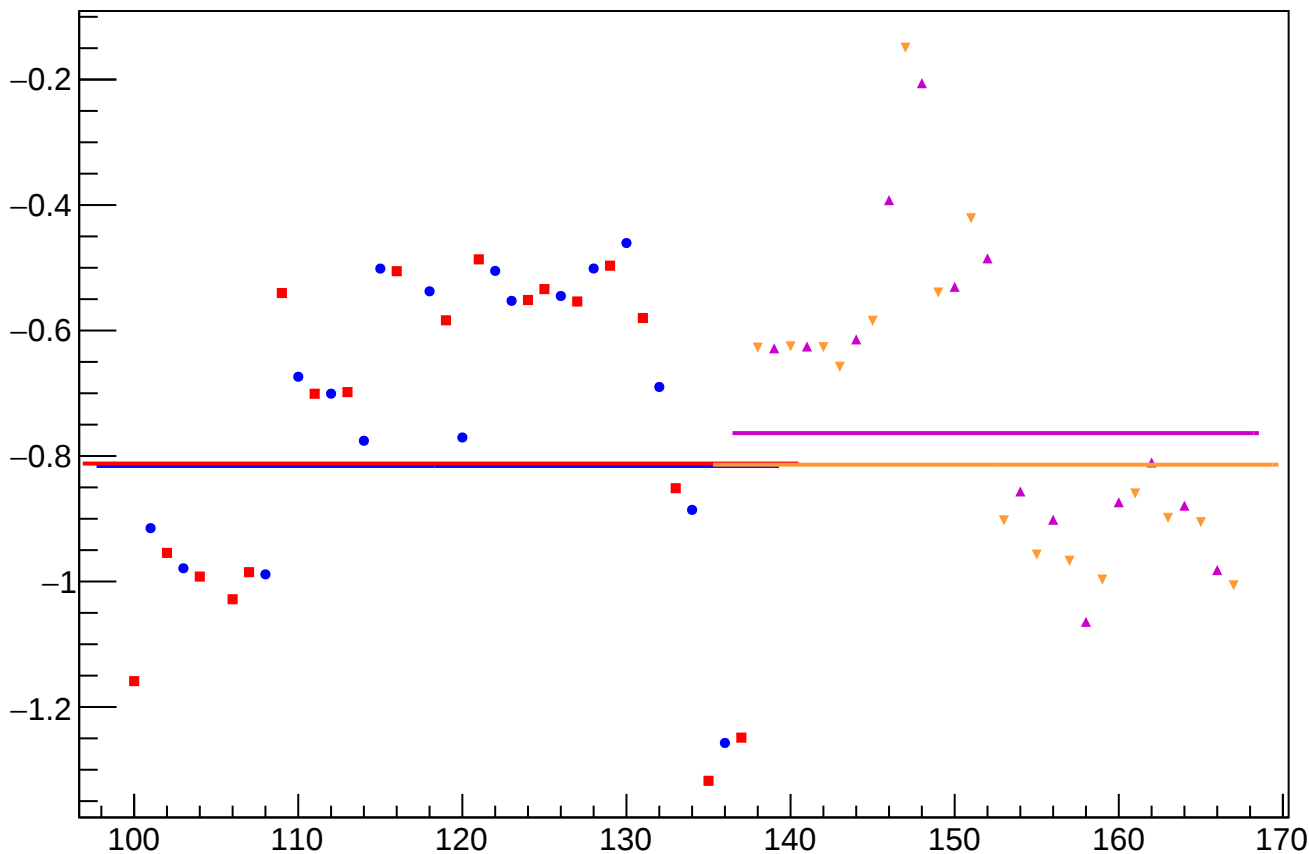
Right: 0.006 ± 0.000 χ^2/NDF : 1005263.6/35

In: 0.005 ± 0.000 χ^2/NDF : 1735667.6/30

Out: 0.005 ± 0.000 χ^2/NDF : 1582017.7/34

All: 0.005 ± 0.000 χ^2/NDF : 3321172.9/65

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 ± 0.000 $\chi^2/\text{NDF}: 14172884795.2/16$

Left Out: -0.814 ± 0.000 $\chi^2/\text{NDF}: 29352983112.3/15$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 16815852448.9/18$

Left In: -0.763 ± 0.000 $\chi^2/\text{NDF}: 28537265021.3/13$

Left: -0.790 ± 0.000 $\chi^2/\text{NDF}: 58670236032.5/29$

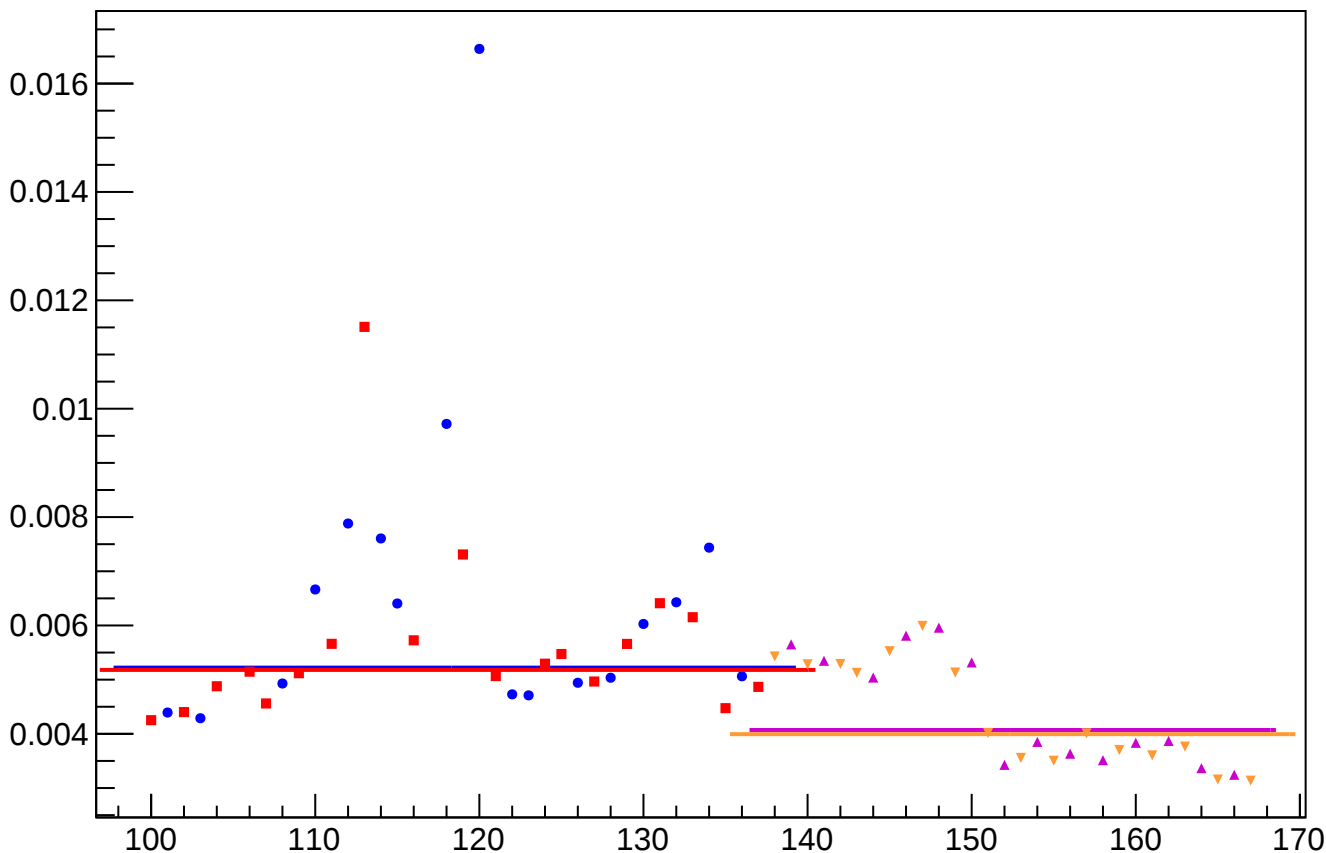
Right: -0.814 ± 0.000 $\chi^2/\text{NDF}: 30990213454.0/35$

In: -0.777 ± 0.000 $\chi^2/\text{NDF}: 43111365844.8/30$

Out: -0.813 ± 0.000 $\chi^2/\text{NDF}: 46169381124.7/34$

All: -0.796 ± 0.000 $\chi^2/\text{NDF}: 89835629681.9/71$

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 664386.8/16

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:897193.6/15

Right Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 363781.3/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:859573.4/13

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 1760454.0/29

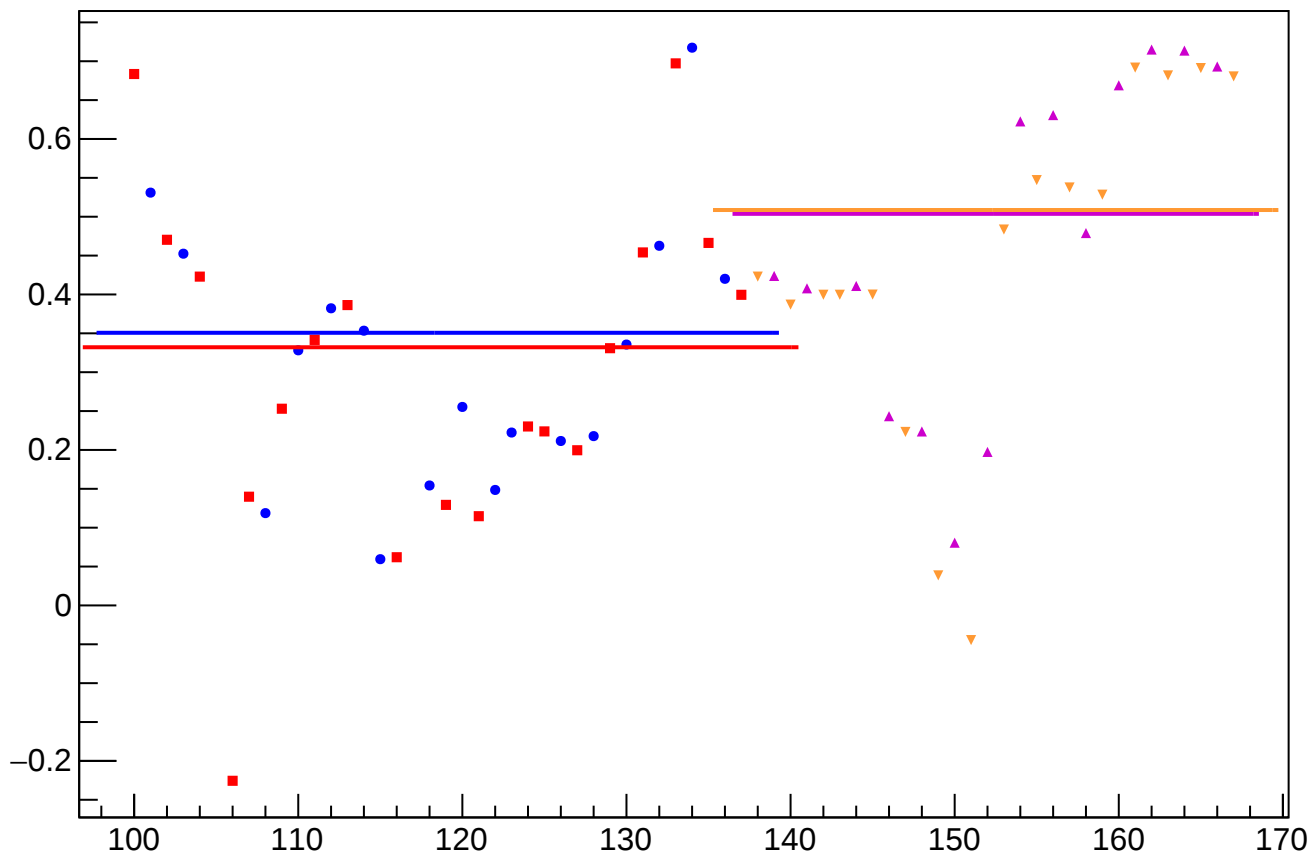
Right: 0.005 $\pm$ 0.000 χ^2 /NDF: 1028532.8/35

In: 0.004 $\pm$ 0.000 χ^2 /NDF:1911999.1/30

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1725801.0/34

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 3641465.5/65

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.509+/-0.000 χ^2/NDF : 37364219756.4/15

Right Out: 0.332+/-0.000 χ^2/NDF : 11796213425.9/18

Left In: 0.504+/-0.000 χ^2/NDF : 33395834841.1/13

Left: 0.506+/-0.000 χ^2/NDF : 70771184788.1/29

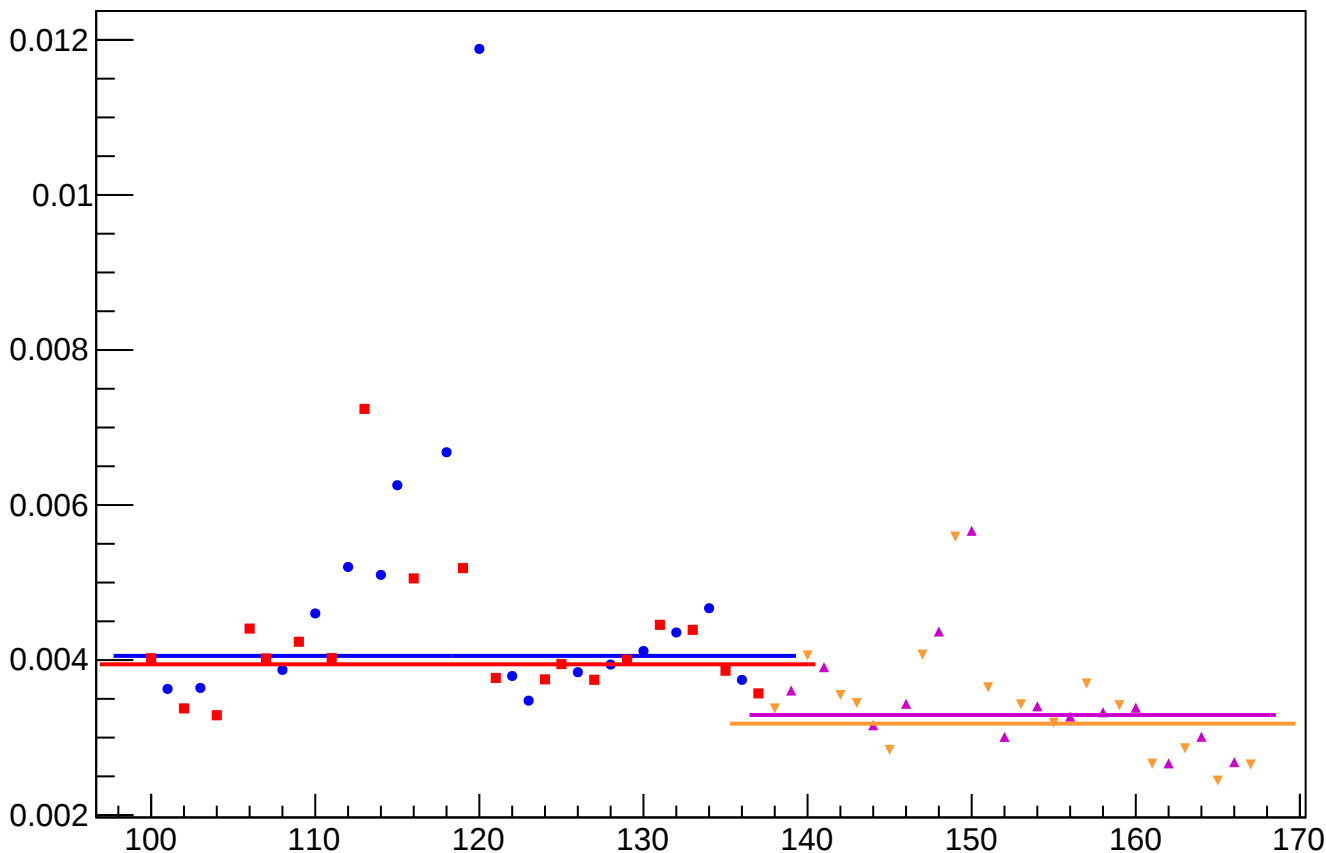
Right: 0.341+/-0.000 χ^2/NDF : 19270918435.8/35

In: 0.460+/-0.000 χ^2/NDF : 46595981852.6/30

Out: 0.459+/-0.000 χ^2/NDF : 57938633282.3/34

All: 0.459+/-0.000 χ^2/NDF : 104535674685.9

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 : 708139.9/15

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 : 1276515.9/29

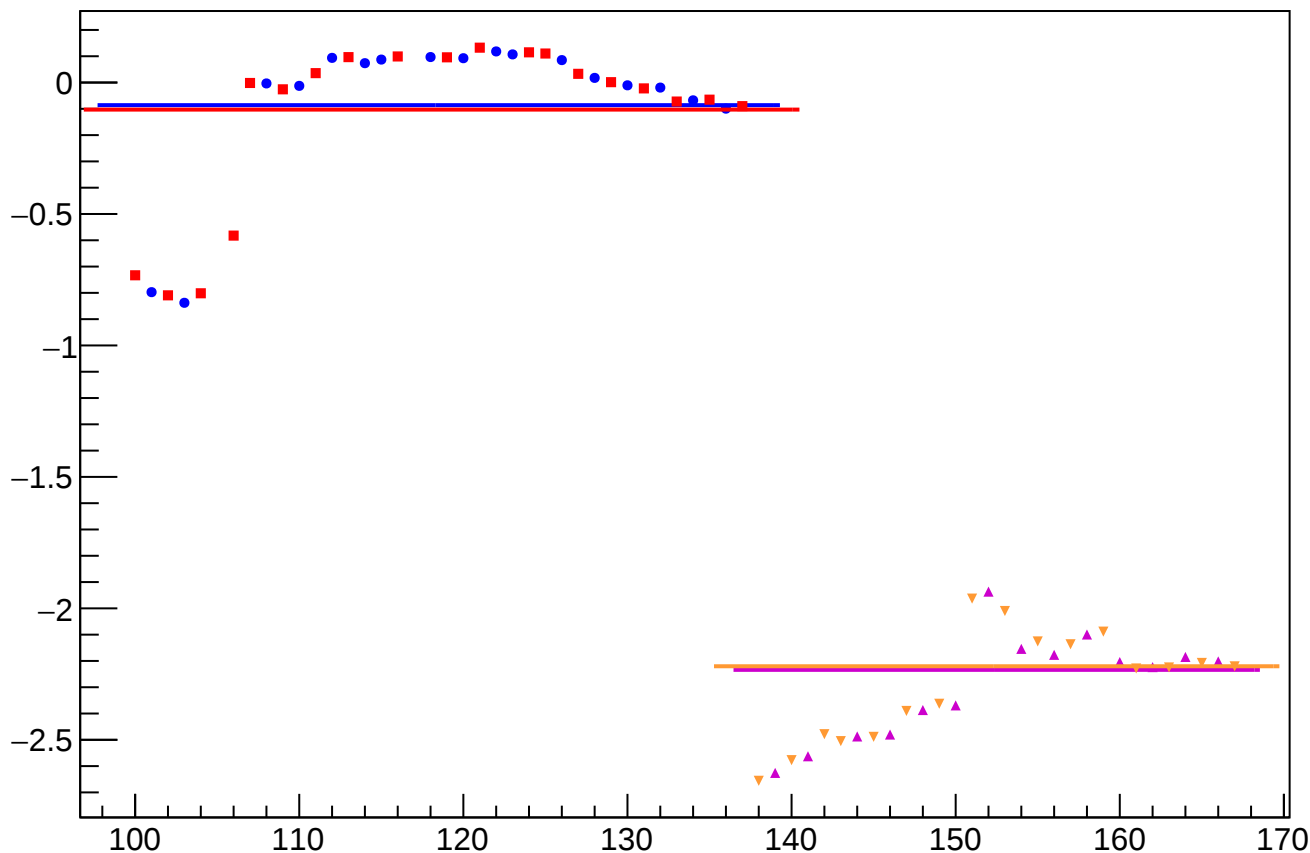
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.004+/-0.000 χ^2/NDF : 1299440.7/30

Out: 0.003+/-0.000 χ^2/NDF : 1299325.0/34

All: 0.003+/-0.000 χ^2/NDF : 2615389.3/65

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 : 3414716430.6/15

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 : 6112351688.2/29

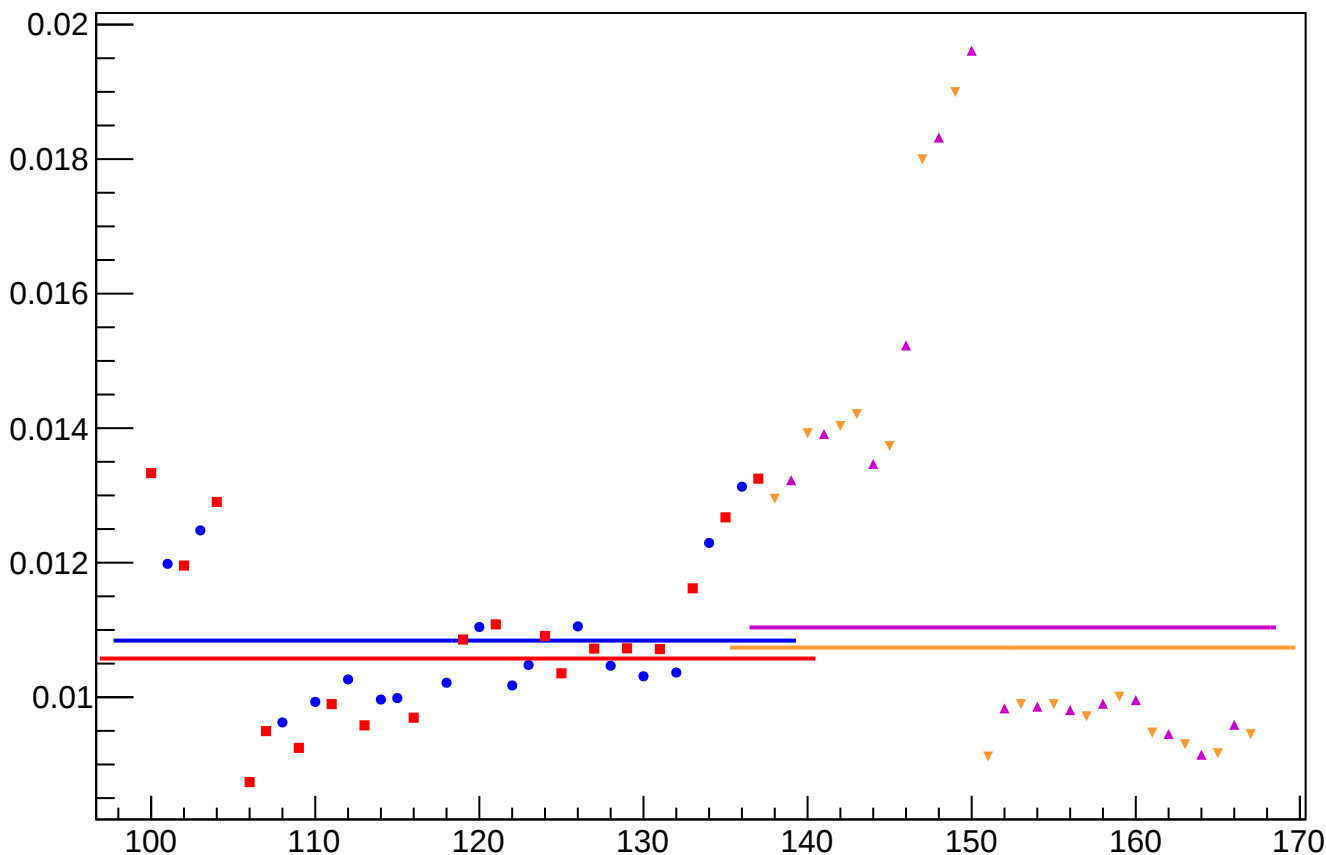
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.370+/-0.000 χ^2/NDF : 163455363755.4/30

Out: -1.391+/-0.000 χ^2/NDF : 180043453773.4/34

All: -1.382+/-0.000 χ^2/NDF : 343531893677.9

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 :1103434.8/15

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 : 2212552.1/29

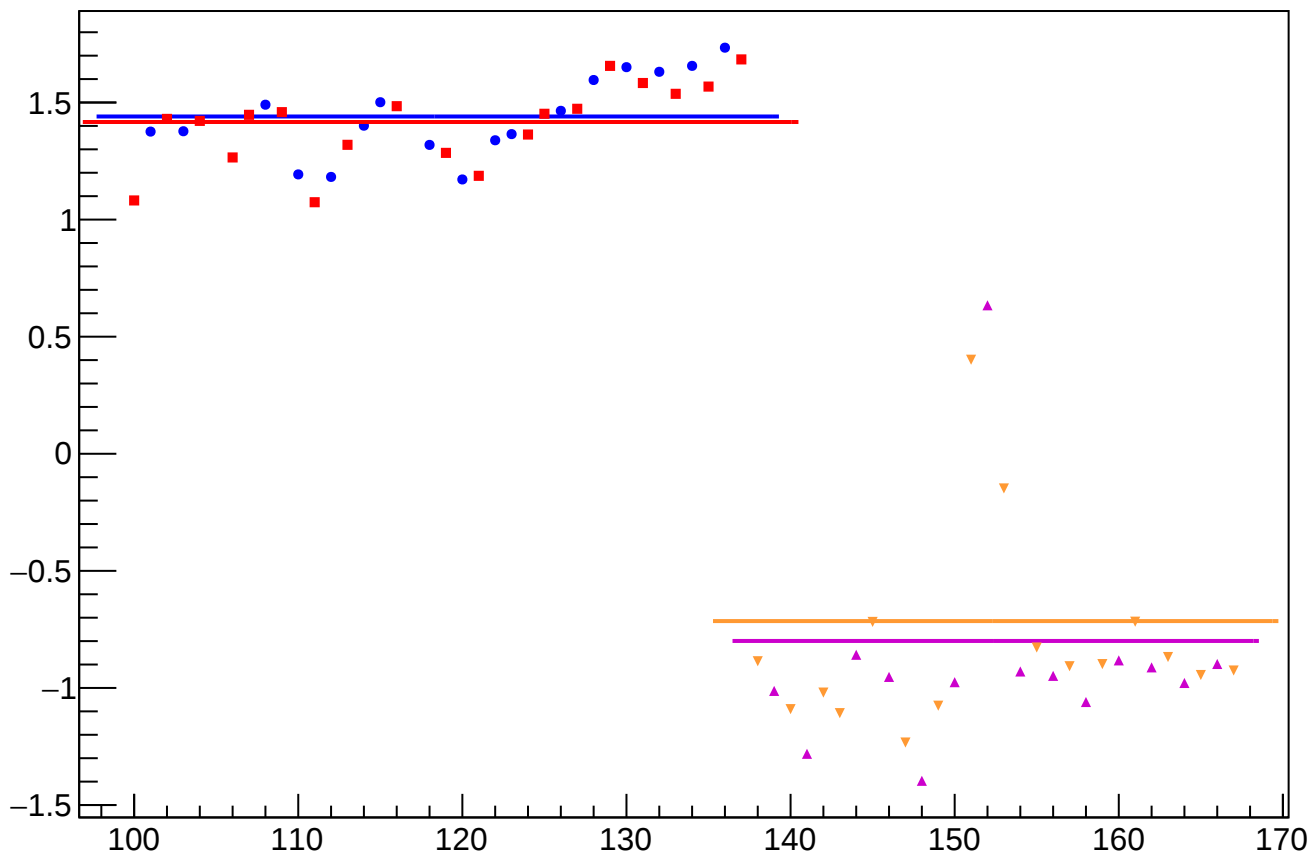
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1227876.1/30

Out: 0.011+/-0.000 χ^2/NDF :1284423.7/34

All: 0.011+/-0.000 χ^2/NDF : 2524404.0/65

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000

χ^2/NDF : 3449252780.8/16

Left: -0.755 $\pm$ 0.000

χ^2/NDF : 71076175033.1/29

Left Out: -0.714 $\pm$ 0.000

χ^2/NDF : 30950599941.0/15

Right: 1.428 $\pm$ 0.000

χ^2/NDF : 6158088082.8/35

Right Out: 1.417 $\pm$ 0.000

χ^2/NDF : 2674064512.3/18

In: 0.230 $\pm$ 0.000

χ^2/NDF : 373844365676.8/30

Out: 0.238 $\pm$ 0.000

χ^2/NDF : 358065074990.7/34

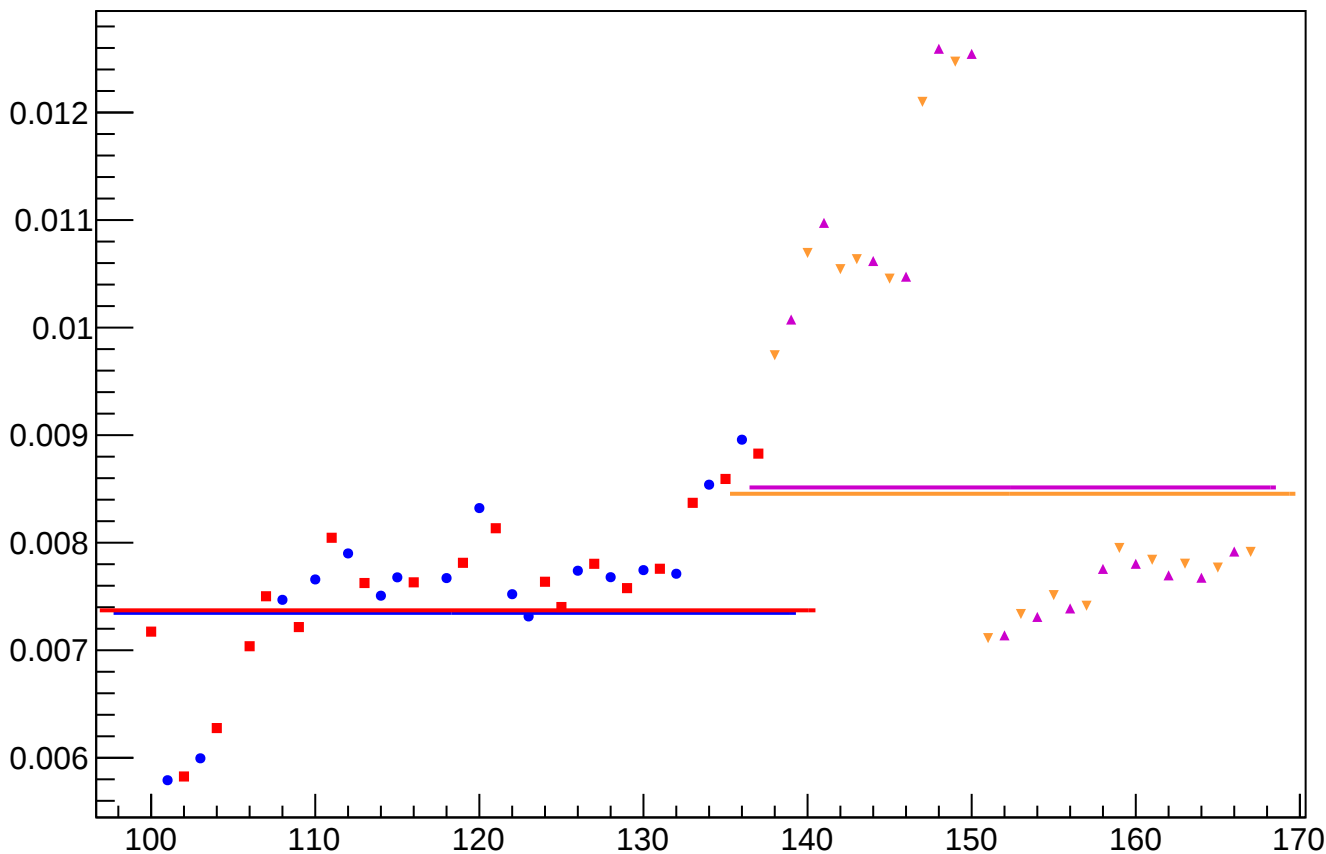
Left In: -0.799 $\pm$ 0.000

χ^2/NDF : 39580697096.6/13

All: 0.234 $\pm$ 0.000

χ^2/NDF : 731918170298.5

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 228163.6/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:738915.4/15

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 172689.5/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:796571.5/13

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 1536011.1/29

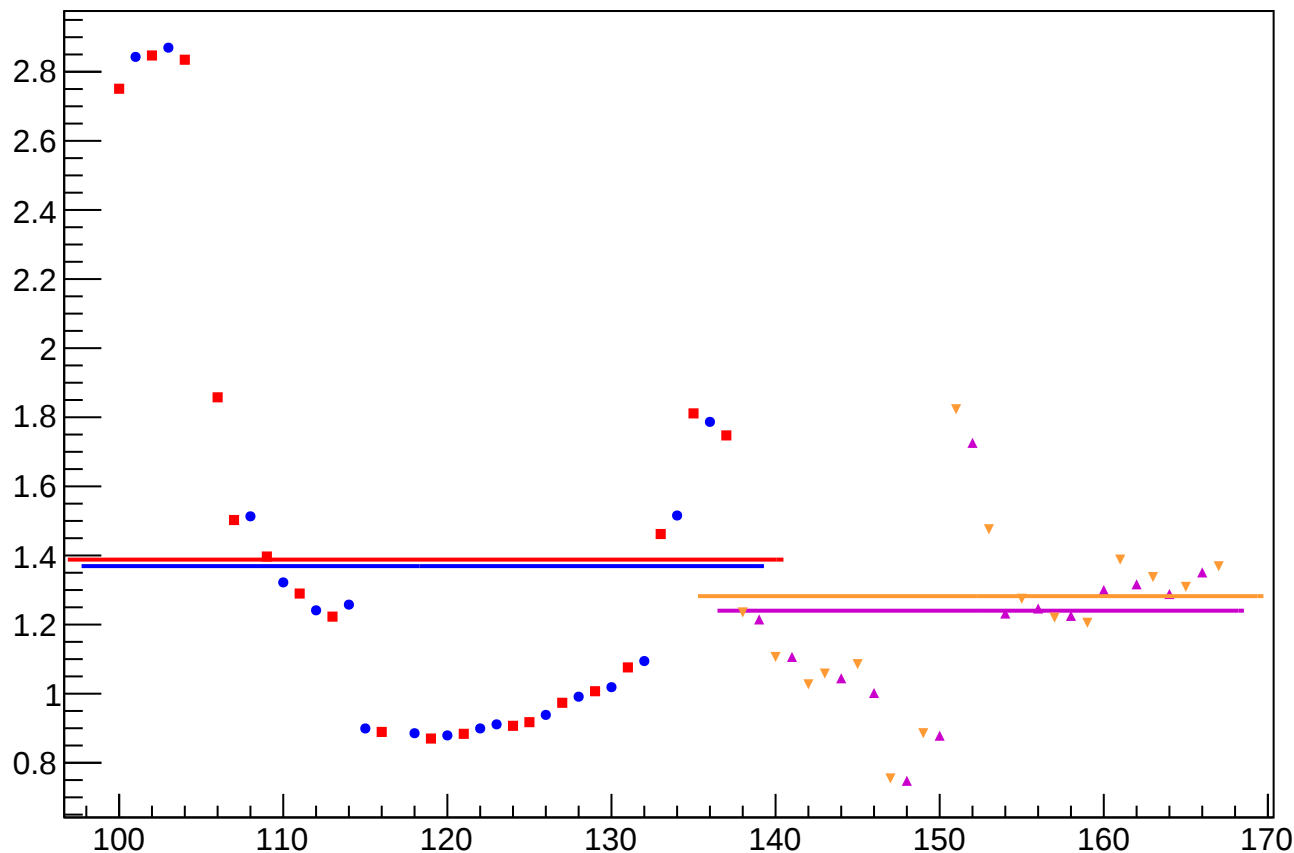
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 400921.9/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:1204077.9/30

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1079399.2/34

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2283491.7/65

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000

χ^2/NDF : 54205395389.8/16

Left: 1.263+/-0.000

χ^2/NDF : 16397122165.5/29

Left Out: 1.282+/-0.000

χ^2/NDF : 9115161597.1/15

Right: 1.379+/-0.000

χ^2/NDF : 104132252851.6/35

Right Out: 1.388+/-0.000

χ^2/NDF : 49900245868.0/18

In: 1.304+/-0.000

χ^2/NDF : 62568780351.9/30

Out: 1.333+/-0.000

χ^2/NDF : 59927639390.9/34

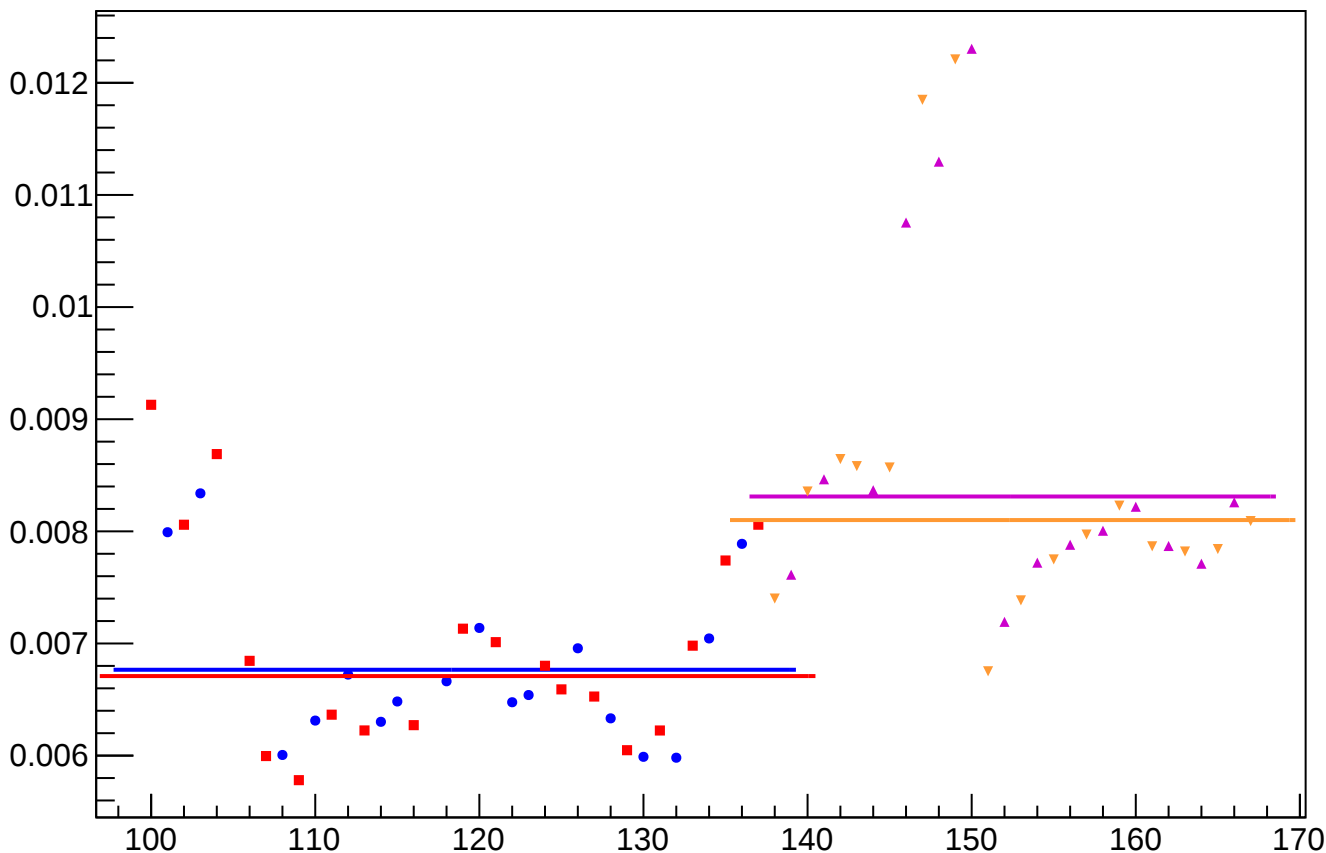
Left In: 1.240+/-0.000

χ^2/NDF : 7140181559.1/13

All: 1.319+/-0.000

χ^2/NDF : 122626649492.0

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 159554.9/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 411128.8/15

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 187826.7/18

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 427934.7/13

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 846124.4/29

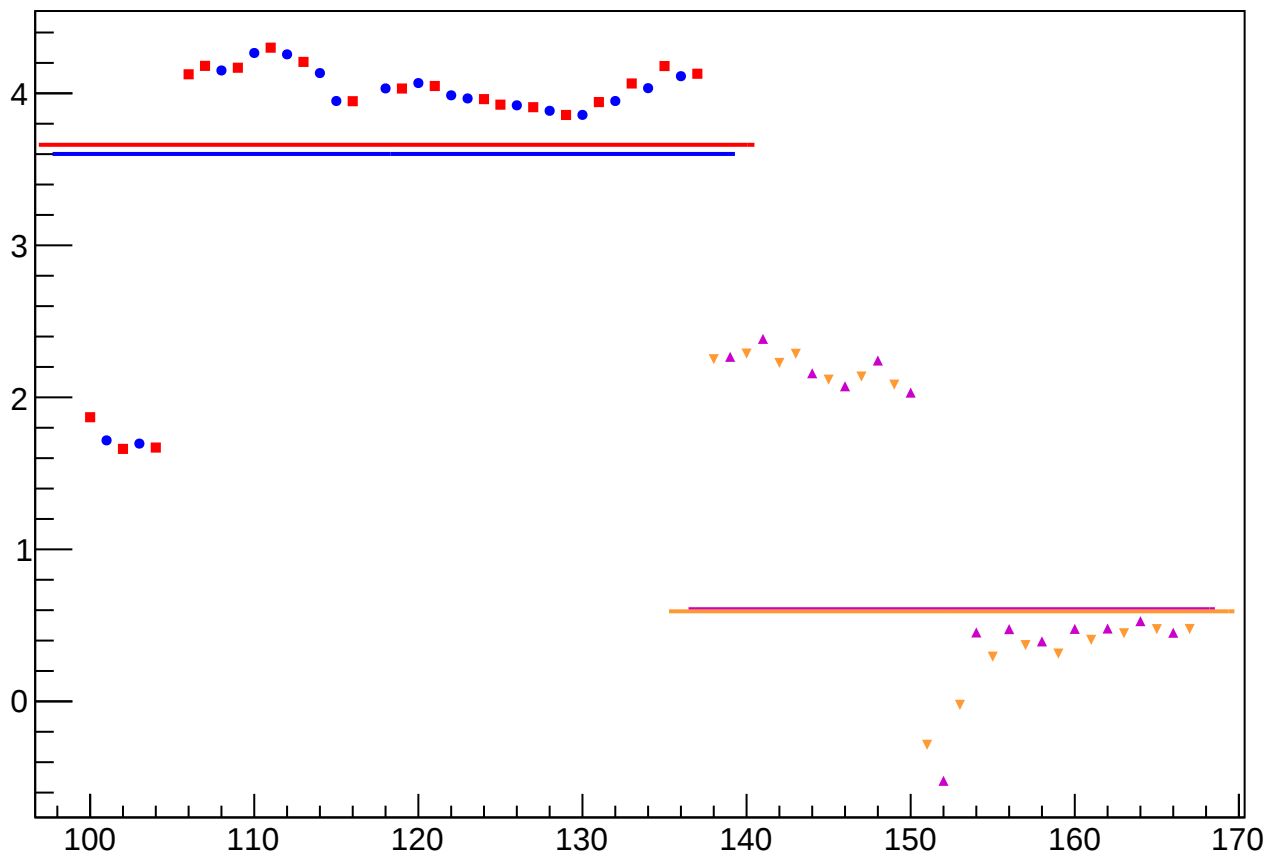
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 347856.0/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF: 938424.7/30

Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 914791.0/34

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 1857126.5/65

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.592+/-0.000 χ^2/NDF : 256975837621.7/15

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: 0.599+/-0.000 χ^2/NDF : 509873228741.5/29

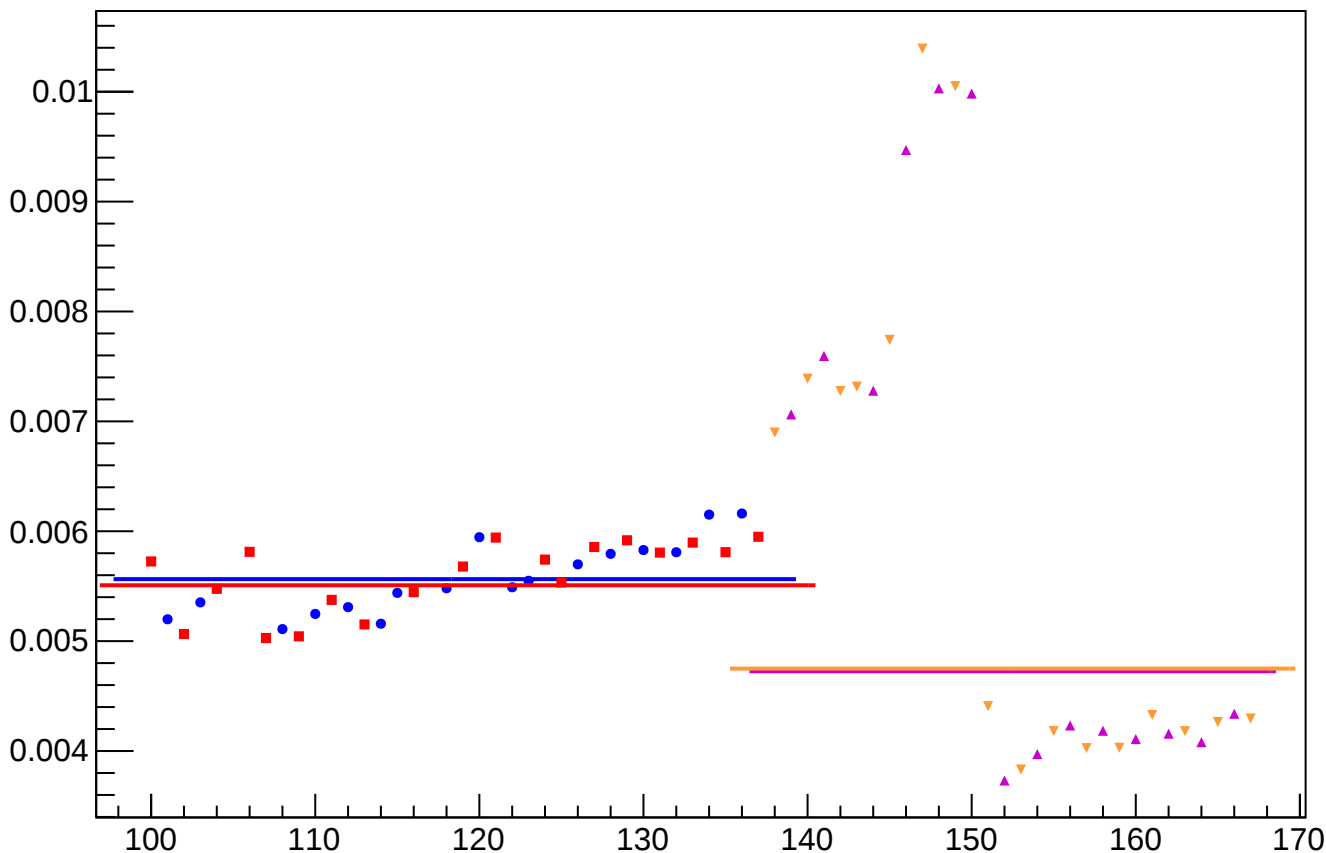
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.625+/-0.000 χ^2/NDF : 1716675518374.0/30

Out: 1.616+/-0.000 χ^2/NDF : 1888402671475.0/34

All: 1.620+/-0.000 χ^2/NDF : 3605102593372.

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 :1915377.5/15

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 : 4017488.2/29

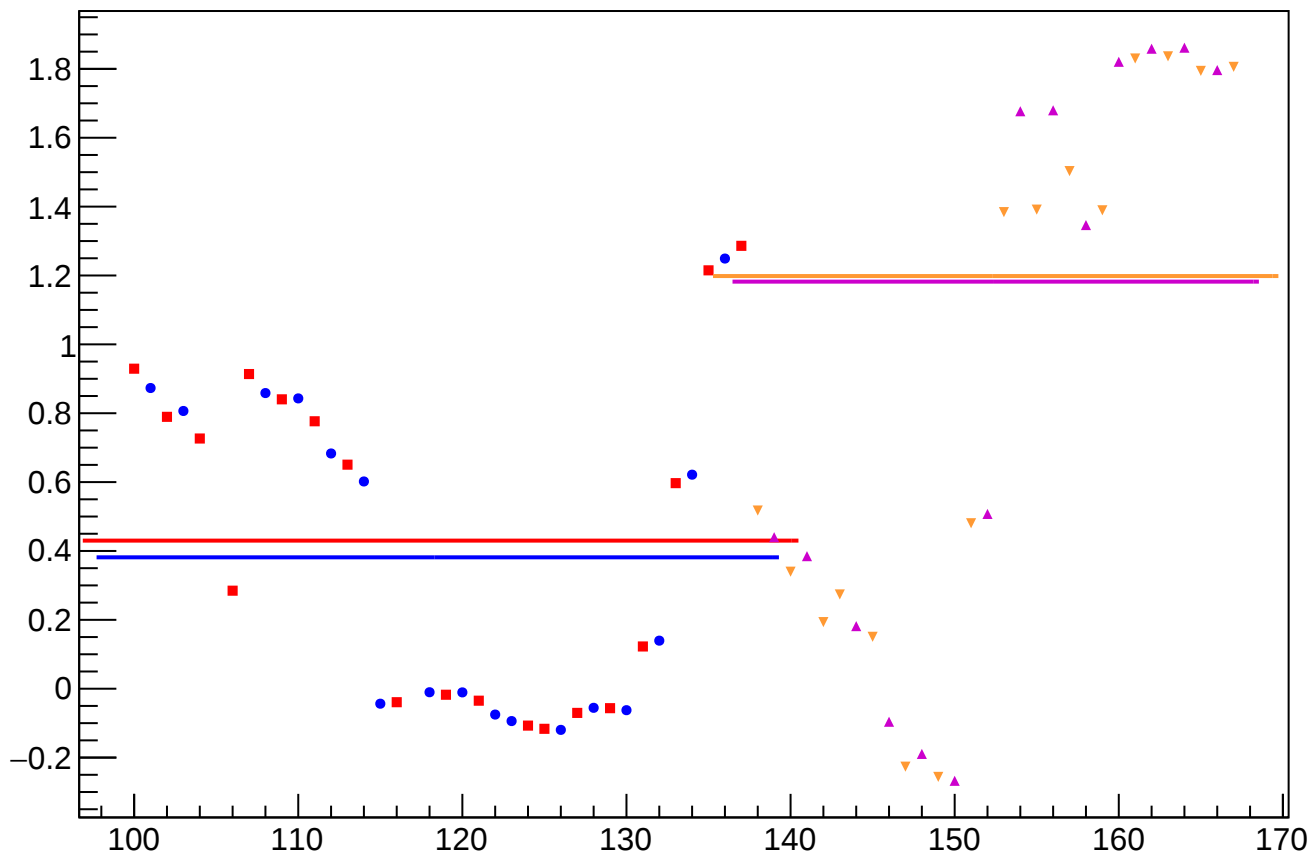
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2349800.7/30

Out: 0.005+/-0.000 χ^2/NDF :2143678.5/34

All: 0.005+/-0.000 χ^2/NDF : 4493516.7/65

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 ± 0.000 $\chi^2/\text{NDF}: 7124759123.1/16$

Left Out: 1.198 ± 0.000 $\chi^2/\text{NDF}: 37969663963.4/15$

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: 1.191 ± 0.000 $\chi^2/\text{NDF}: 79809368433.2/29$

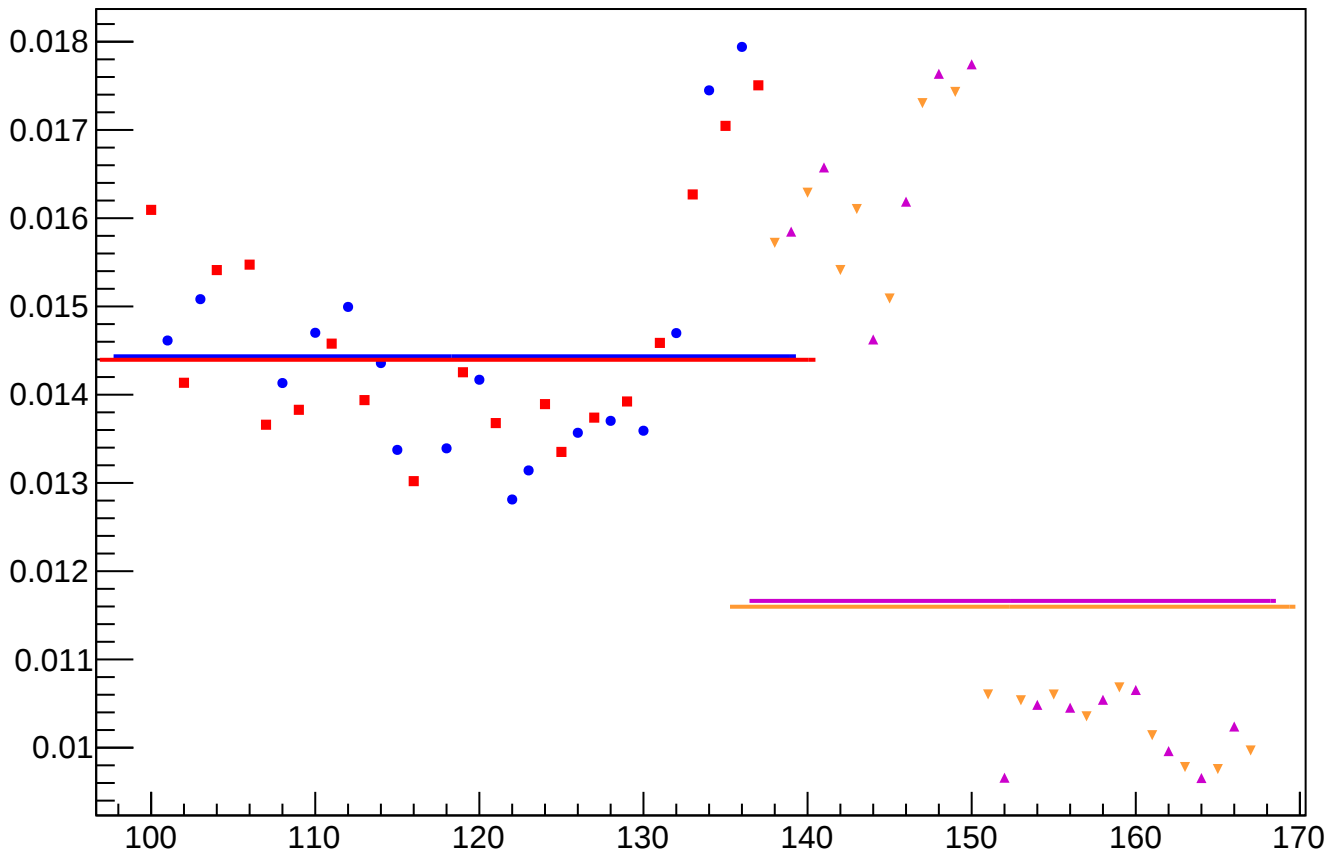
Right: 0.406 ± 0.000 $\chi^2/\text{NDF}: 13839390791.2/35$

In: 0.944 ± 0.000 $\chi^2/\text{NDF}: 63259426843.5/30$

Out: 0.978 ± 0.000 $\chi^2/\text{NDF}: 58739012364.4/34$

All: 0.961 ± 0.000 $\chi^2/\text{NDF}: 122062332374.6$

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 :1053668.8/15

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 : 2132515.4/29

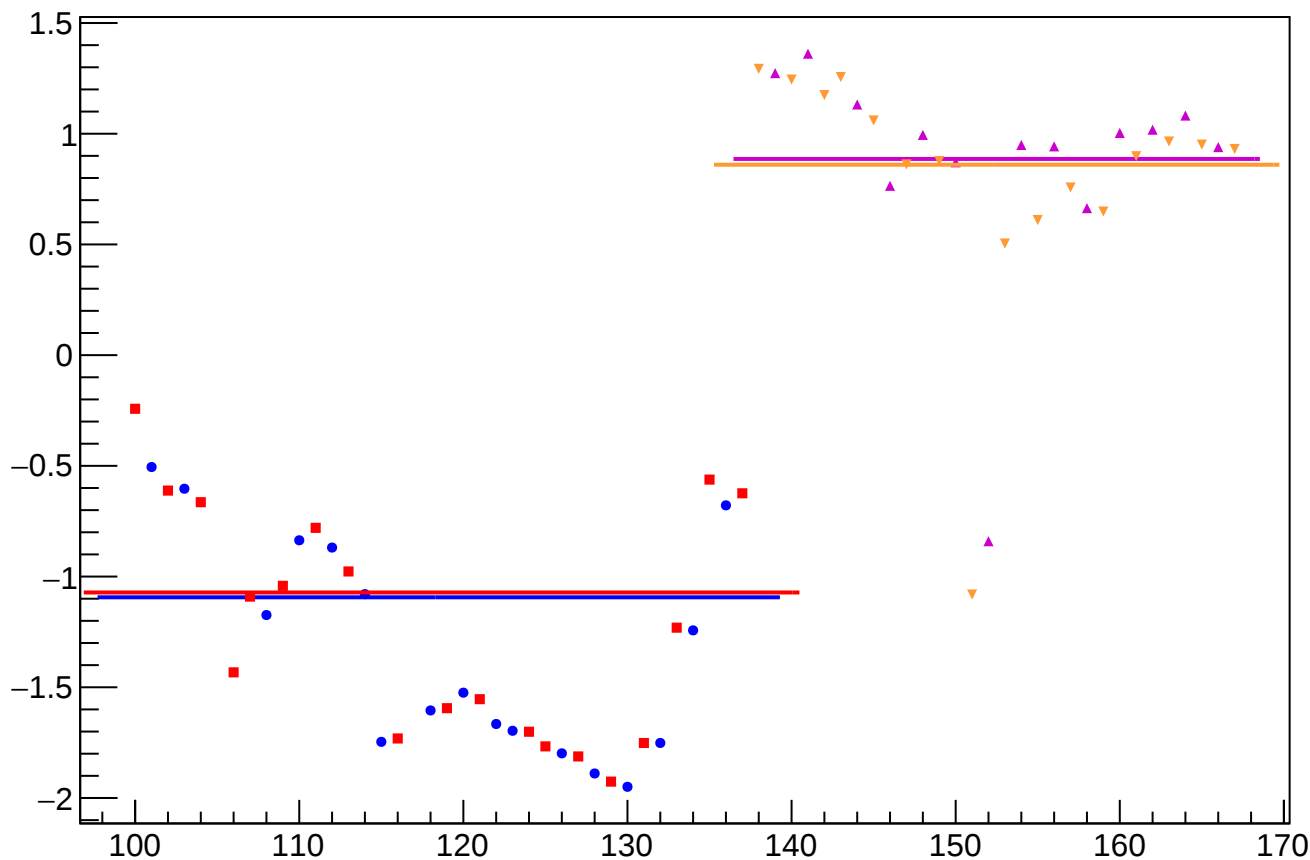
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1531629.7/30

Out: 0.012+/-0.000 χ^2/NDF :1502143.9/34

All: 0.012+/-0.000 χ^2/NDF : 3034623.4/65

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094 ± 0.000 $\chi^2/\text{NDF}: 55960104370.4/16$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 124766622851.2/15$

Right Out: -1.072 ± 0.000 $\chi^2/\text{NDF}: 46896017480.0/18$

Left In: 0.886 ± 0.000 $\chi^2/\text{NDF}: 145707413233.9/13$

Left: 0.872 ± 0.000 $\chi^2/\text{NDF}: 270726309879.4/29$

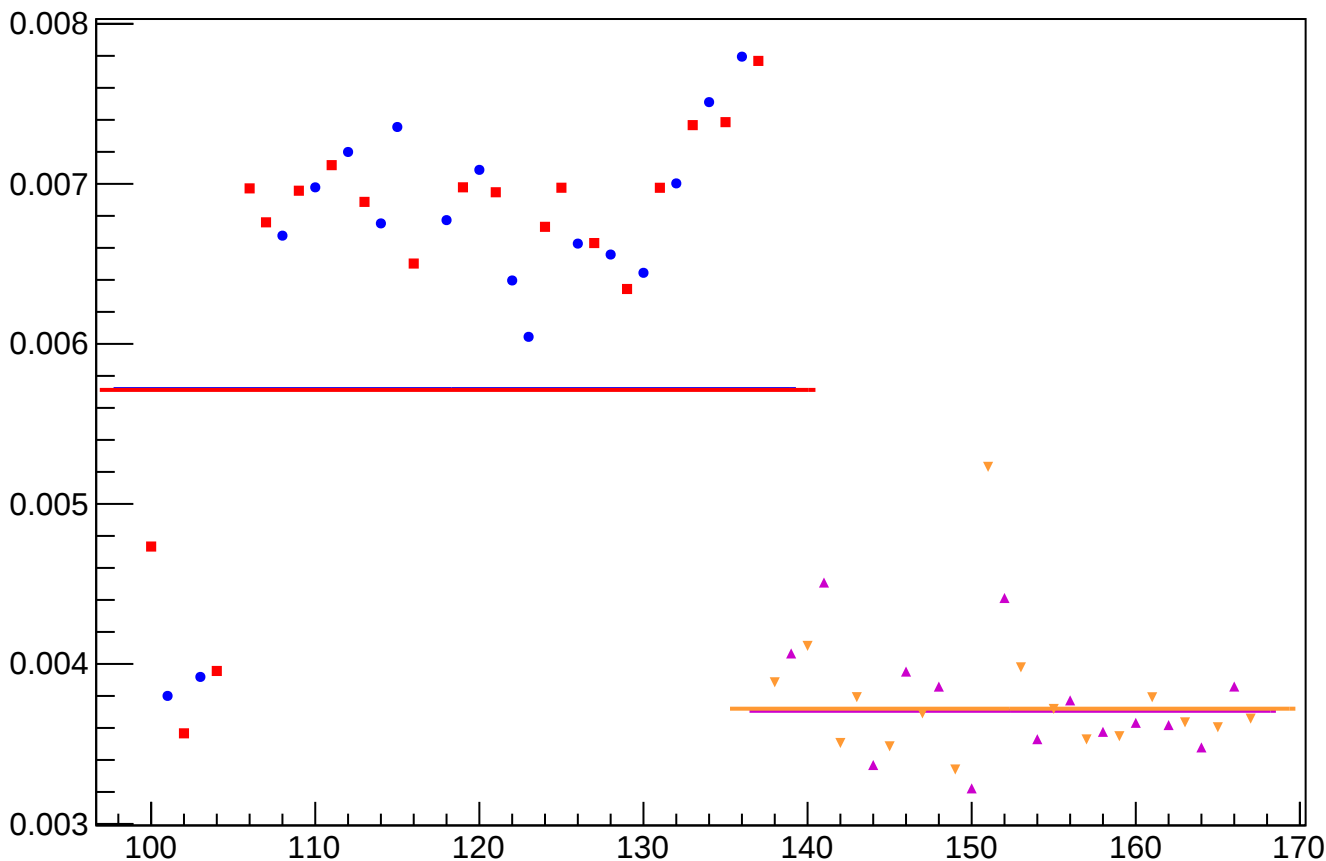
Right: -1.083 ± 0.000 $\chi^2/\text{NDF}: 102900070258.1/35$

In: 0.481 ± 0.000 $\chi^2/\text{NDF}: 767809405536.6/30$

Out: 0.478 ± 0.000 $\chi^2/\text{NDF}: 737219665532.7/34$

All: 0.479 ± 0.000 $\chi^2/\text{NDF}: 1505031402398.$

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 :161286.6/15

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 : 331826.0/29

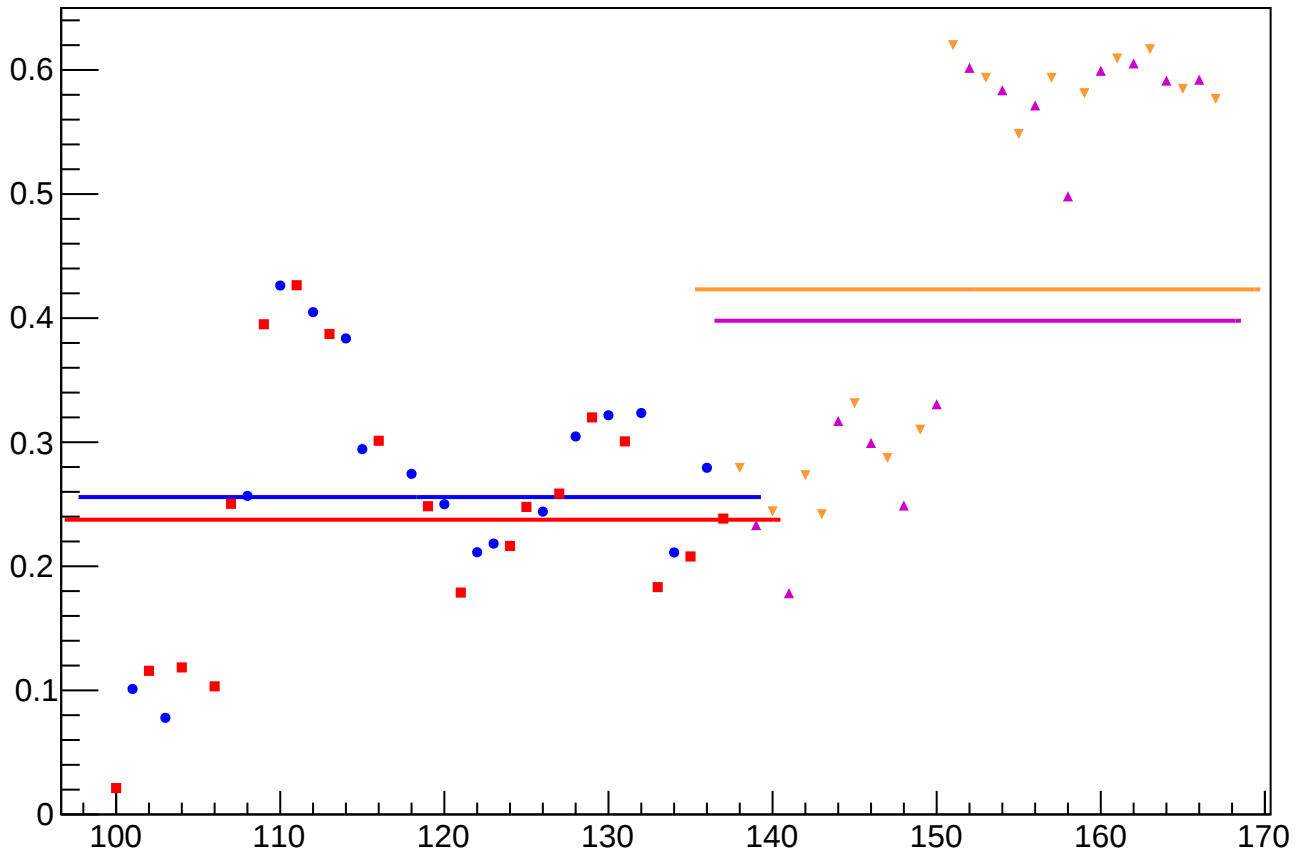
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2175735.4/30

Out: 0.004+/-0.000 χ^2/NDF :2288122.3/34

All: 0.004+/-0.000 χ^2/NDF : 4463881.8/65

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.423+/-0.000 χ^2/NDF : 79863358294.0/15

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: 0.411+/-0.000 χ^2/NDF : 152781809243.9/29

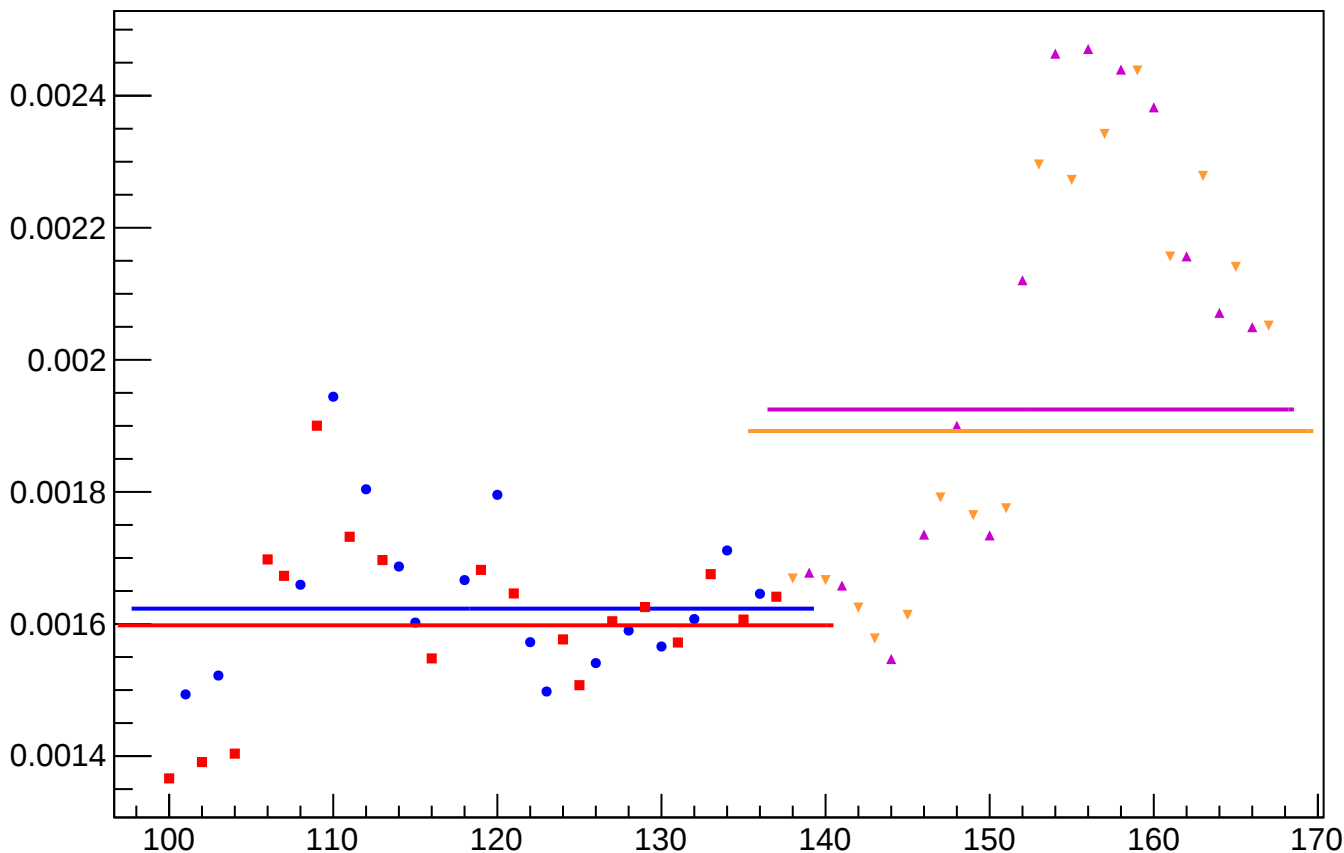
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.332+/-0.000 χ^2/NDF : 119685090866.8/30

Out: 0.338+/-0.000 χ^2/NDF : 156695722143.4/34

All: 0.335+/-0.000 χ^2/NDF : 276493622710.2

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 :518088.9/15

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 : 1060617.5/29

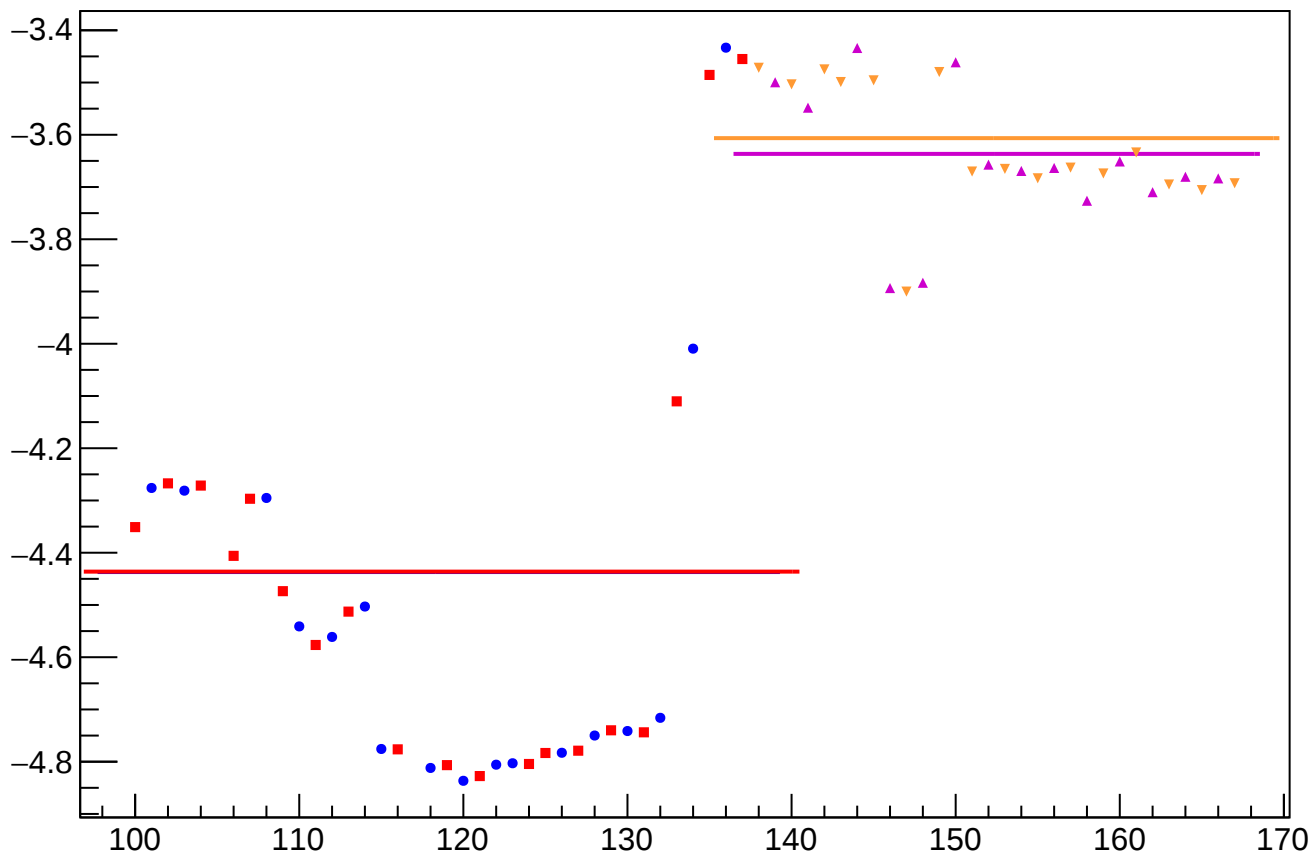
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF :829164.1/30

Out: 0.002+/-0.000 χ^2/NDF :863873.6/34

All: 0.002+/-0.000 χ^2/NDF : 1697088.6/65

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2 /NDF: 392812415429.0/16

Left Out: -3.606 $\pm$ 0.000 χ^2 /NDF: 33927412860.7/15

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: -3.621 $\pm$ 0.000 χ^2 /NDF: 78026498370.9/29

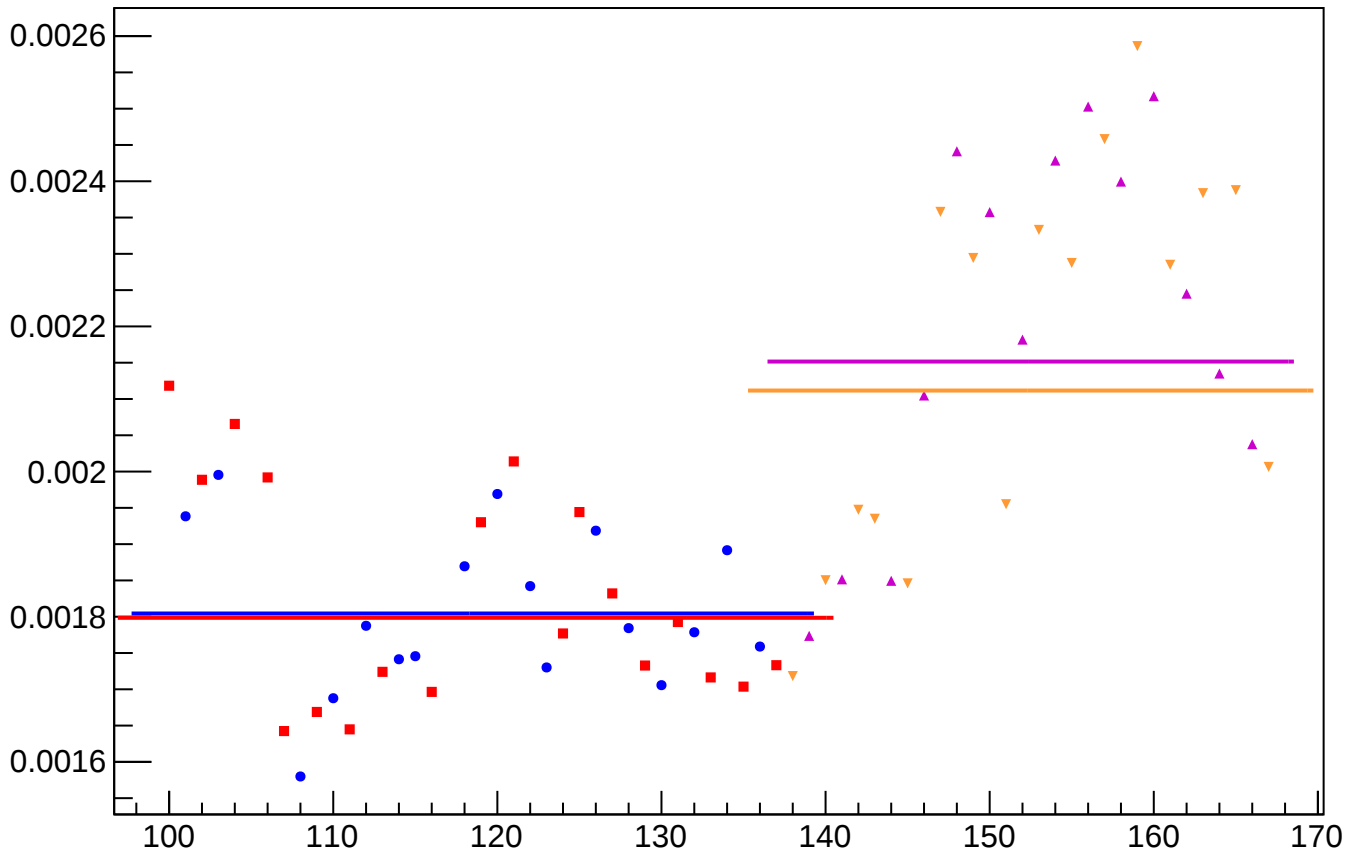
Right: -4.437 $\pm$ 0.000 χ^2 /NDF: 717996921060.6/35

In: -4.012 $\pm$ 0.000 χ^2 /NDF: 1115799484007.6/30

Out: -3.983 $\pm$ 0.000 χ^2 /NDF: 1158004747779.1/34

All: -3.997 $\pm$ 0.000 χ^2 /NDF: 2275676891400

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 :342678.4/15

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 : 639732.1/29

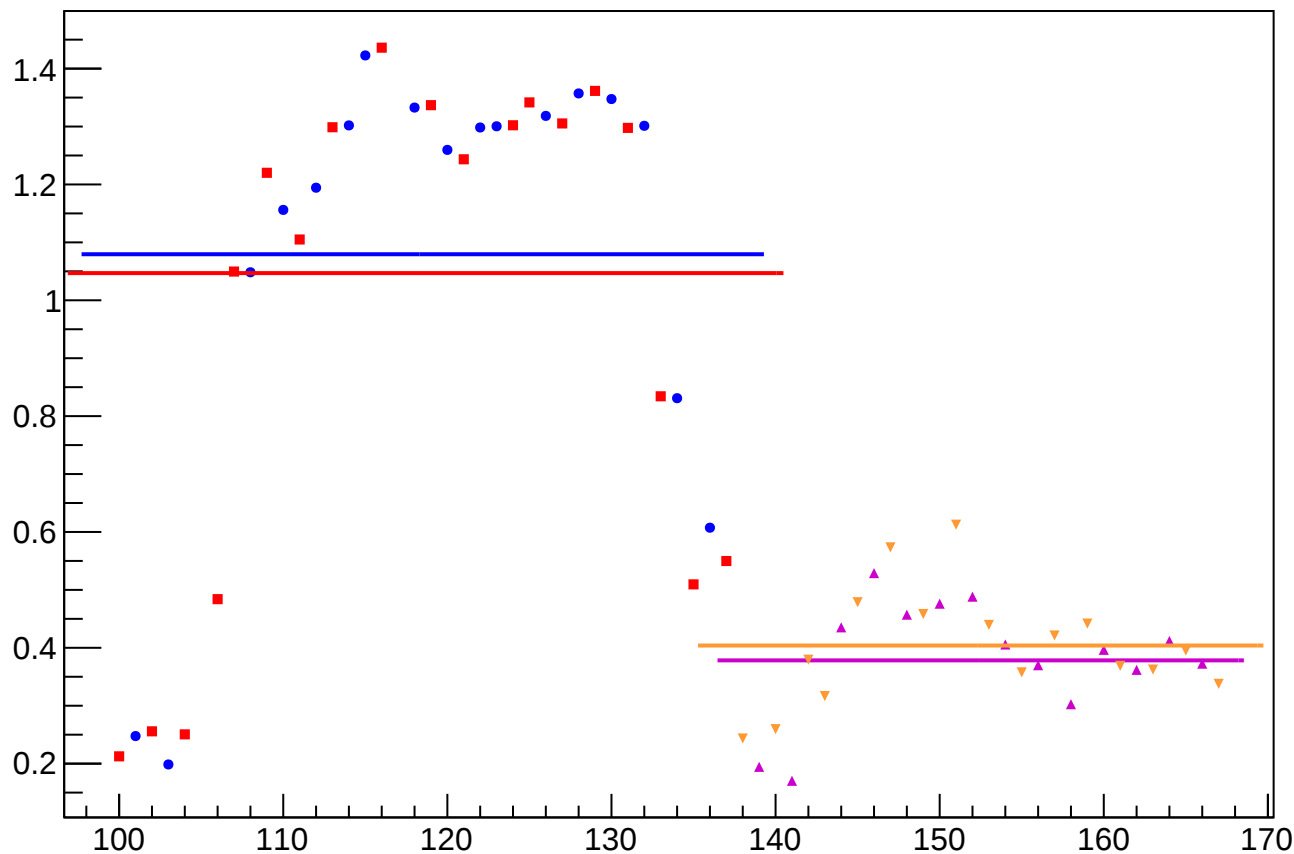
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :598144.4/30

Out: 0.002+/-0.000 χ^2/NDF :651238.6/34

All: 0.002+/-0.000 χ^2/NDF : 1251034.0/65

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.404 $\pm$ 0.000 χ^2 /NDF:1262902708.4/15

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: 0.392 $\pm$ 0.000 χ^2 /NDF: 2347920606.7/29

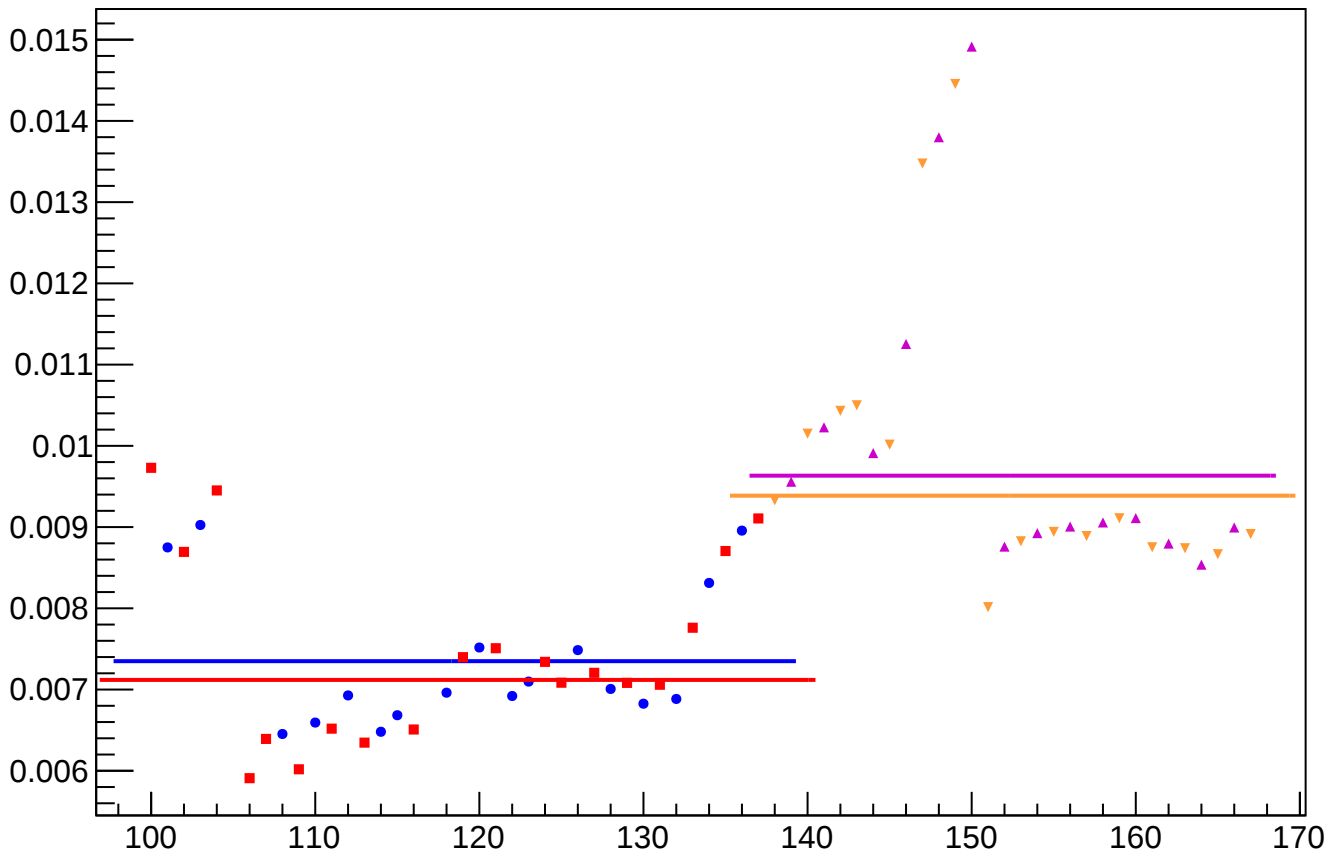
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.742 $\pm$ 0.000 χ^2 /NDF:47543776654.1/30

Out: 0.733 $\pm$ 0.000 χ^2 /NDF:48734029852.4/34

All: 0.737 $\pm$ 0.000 χ^2 /NDF: 96287552513.6/68

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 : 470153.1/15

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 : 964811.9/29

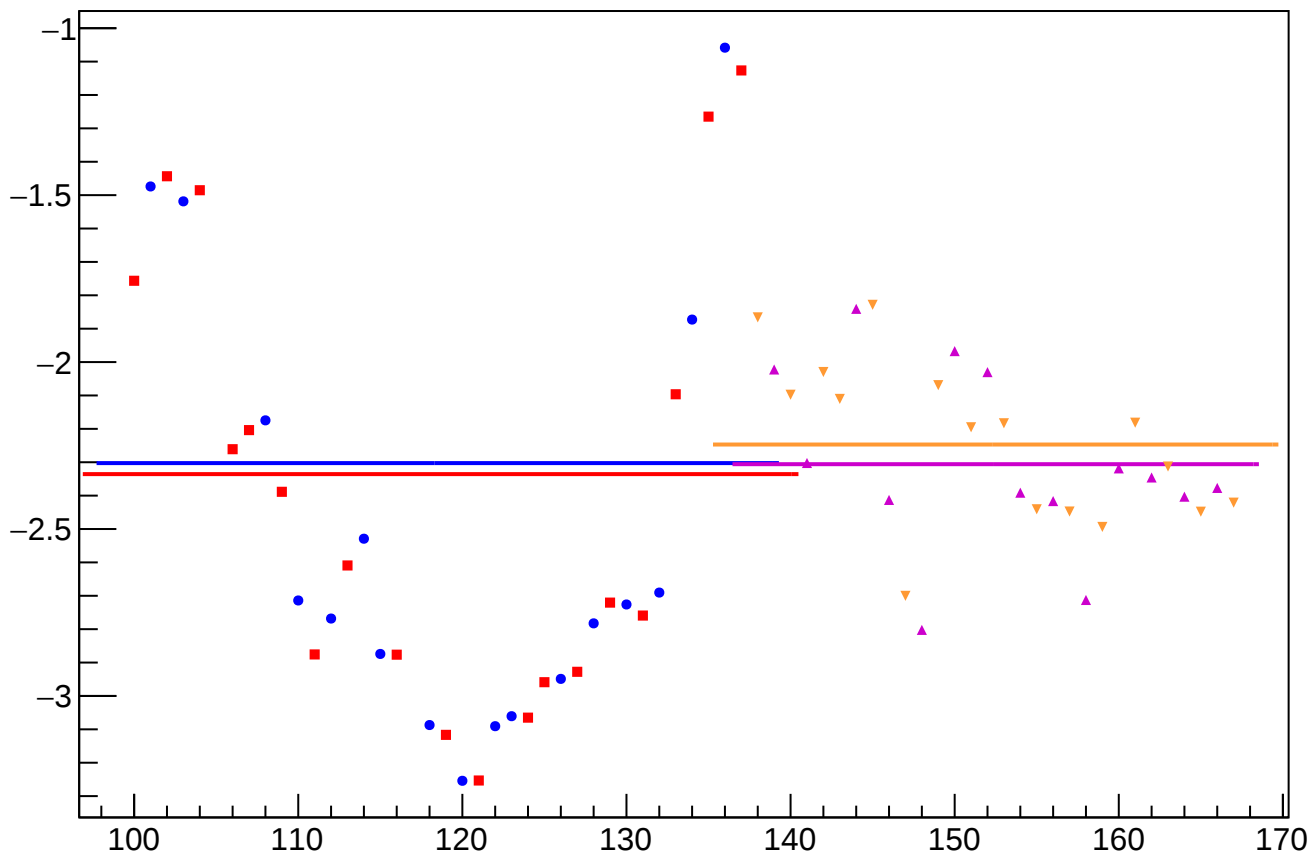
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.008+/-0.000 χ^2/NDF : 1282473.0/30

Out: 0.008+/-0.000 χ^2/NDF : 1420559.8/34

All: 0.008+/-0.000 χ^2/NDF : 2715560.0/65

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303 ± 0.000 $\chi^2/\text{NDF}: 73755914805.8/16$

Left Out: -2.247 ± 0.000 $\chi^2/\text{NDF}: 7738029312.7/15$

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: -2.275 ± 0.000 $\chi^2/\text{NDF}: 16548811692.9/29$

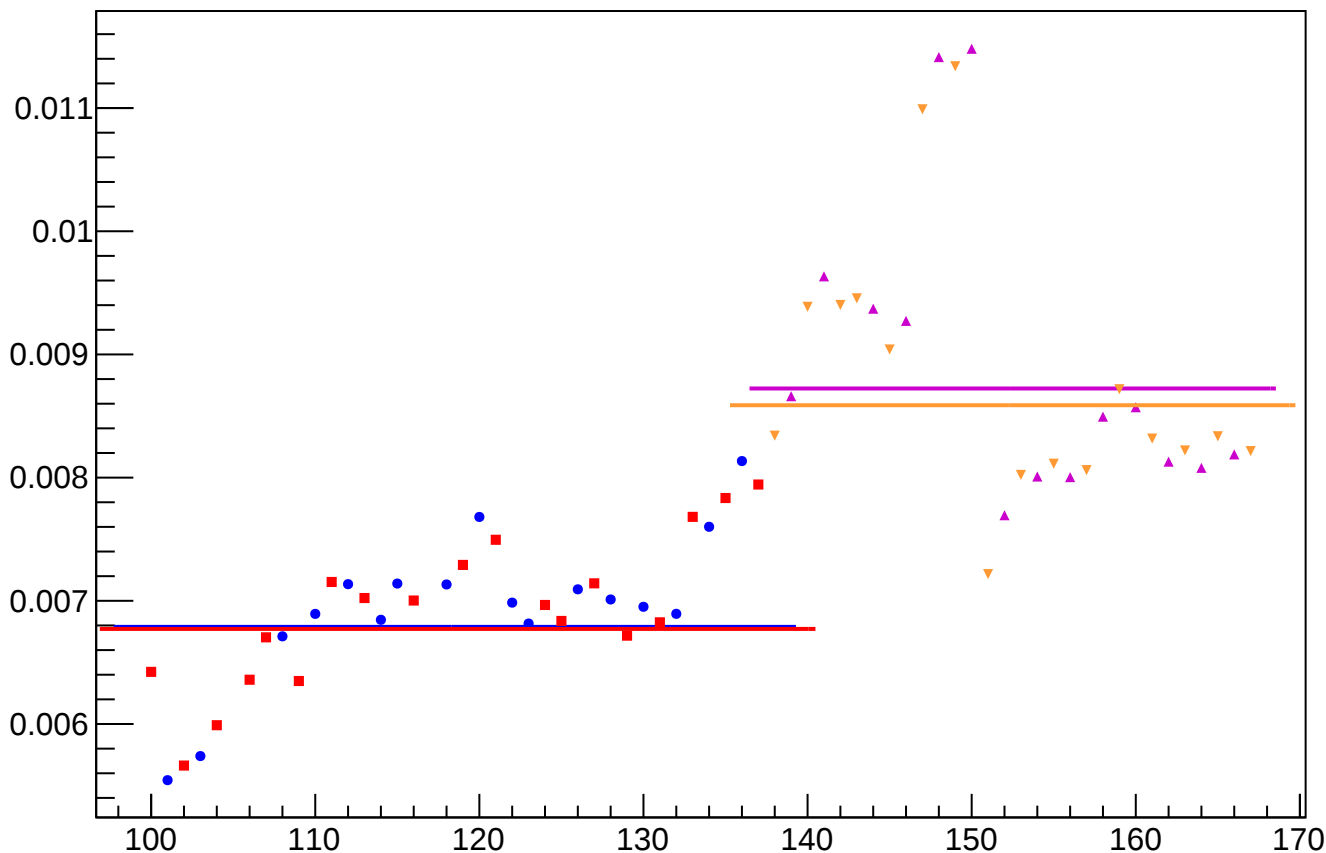
Right: -2.320 ± 0.000 $\chi^2/\text{NDF}: 138336112561.8/35$

In: -2.304 ± 0.000 $\chi^2/\text{NDF}: 82309309112.6/30$

Out: -2.291 ± 0.000 $\chi^2/\text{NDF}: 72850682770.8/34$

All: -2.297 ± 0.000 $\chi^2/\text{NDF}: 155187429946.9$

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 289645.3/15

Right Out: 0.007 $\pm$ 0.000 χ^2/NDF : 123244.0/18

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 295225.5/13

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 587616.6/29

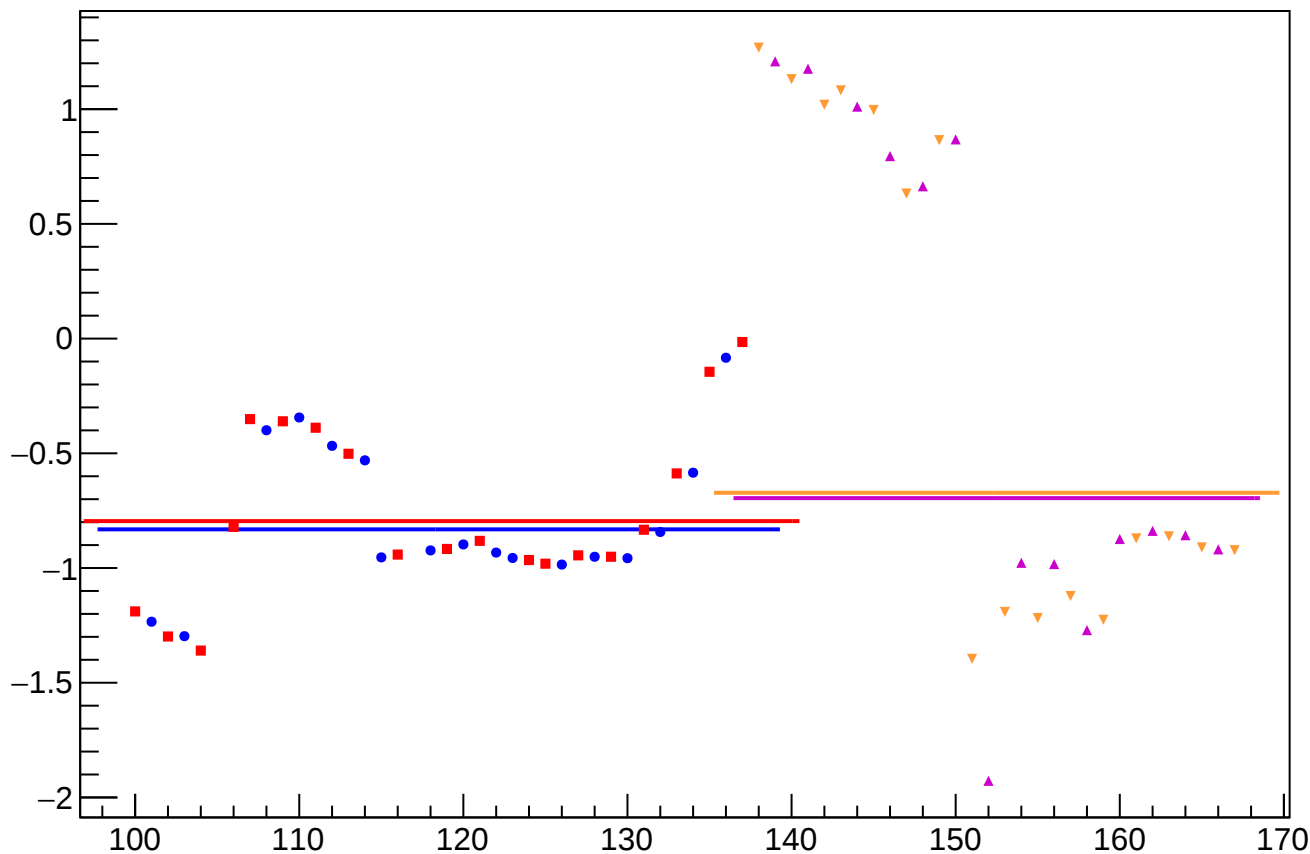
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 288483.5/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 992834.4/30

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 927875.6/34

All: 0.008 $\pm$ 0.000 χ^2/NDF : 1921450.5/65

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.683+/-0.000

χ^2/NDF : 230733169485.0/29

Left Out: -0.672+/-0.000

χ^2/NDF : 112112027614.7/15

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: -0.706+/-0.000

χ^2/NDF : 120595282869.1/34

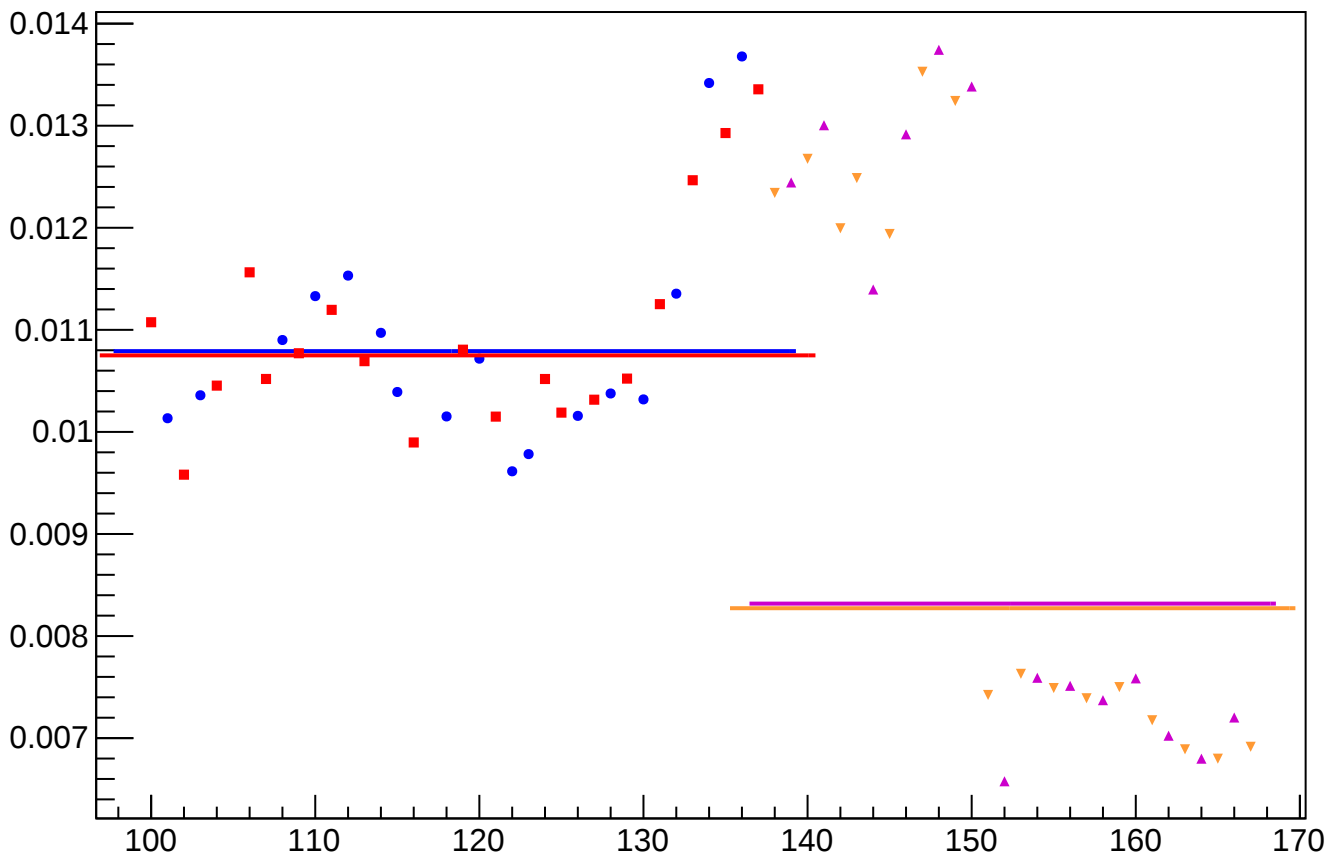
Left In: -0.695+/-0.000

χ^2/NDF : 118580154410.1/13

All: -0.719+/-0.000

χ^2/NDF : 246699662016.4

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 :1462934.5/15

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 : 2954195.0/29

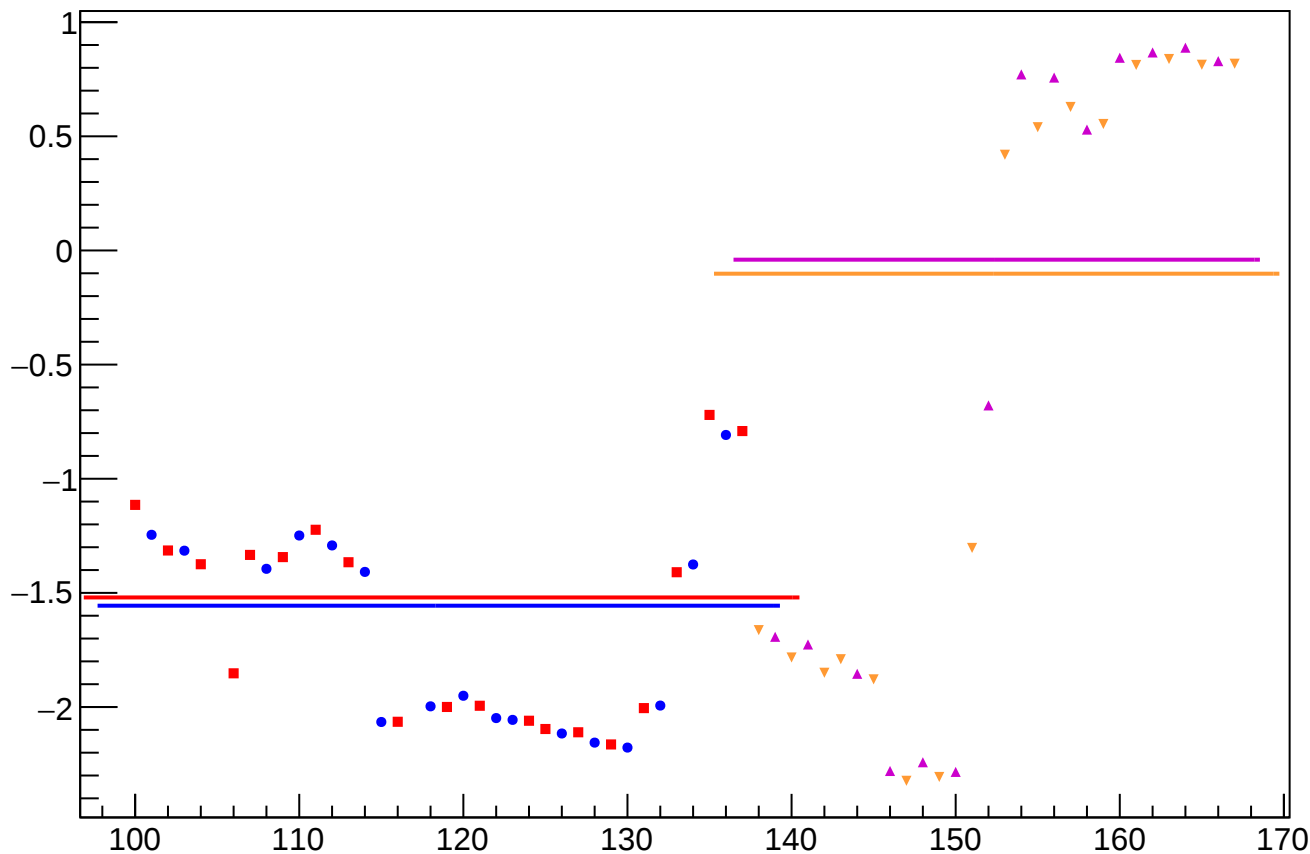
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2111731.4/30

Out: 0.009+/-0.000 χ^2/NDF :2085577.9/34

All: 0.009+/-0.000 χ^2/NDF : 4198307.2/65

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: -0.102+/-0.000 χ^2/NDF : 2052807044210.8/15

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: -0.073+/-0.000 χ^2/NDF : 3930008443744.4/29

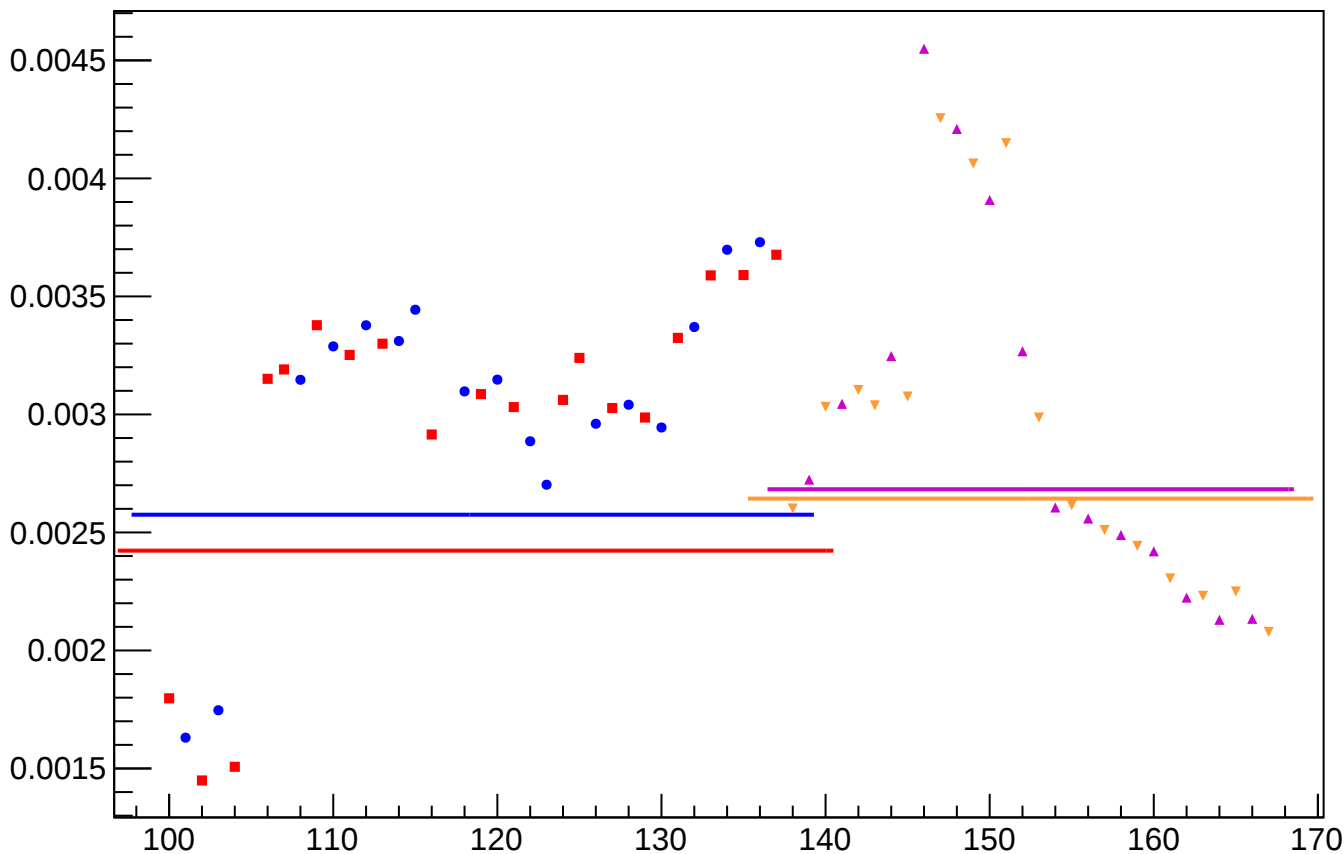
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.647+/-0.000 χ^2/NDF : 3206018283609.9/30

Out: -0.667+/-0.000 χ^2/NDF : 3359112048813.4/34

All: -0.658+/-0.000 χ^2/NDF : 6565617125881

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 : 815112.5/15

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 : 1642180.0/29

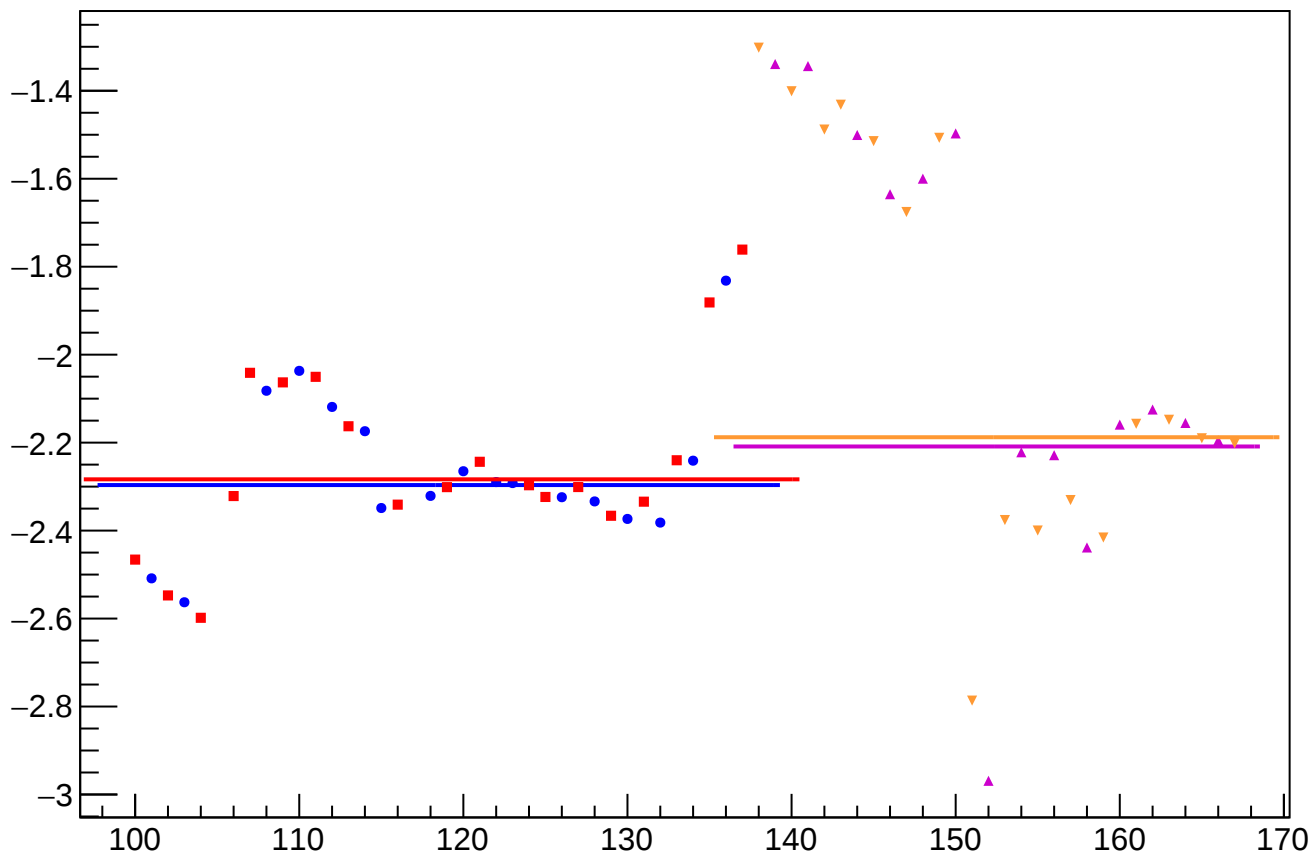
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF : 1850676.6/30

Out: 0.003+/-0.000 χ^2/NDF : 2361675.5/34

All: 0.003+/-0.000 χ^2/NDF : 4228551.5/65

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.188+/-0.000 χ^2/NDF : 51026689165.1/15

Right Out: -2.283+/-0.000 χ^2/NDF : 6548716896.9/18

Left In: -2.209+/-0.000 χ^2/NDF : 66246605978.2/13

Left: -2.198+/-0.000 χ^2/NDF : 117359038442.6/29

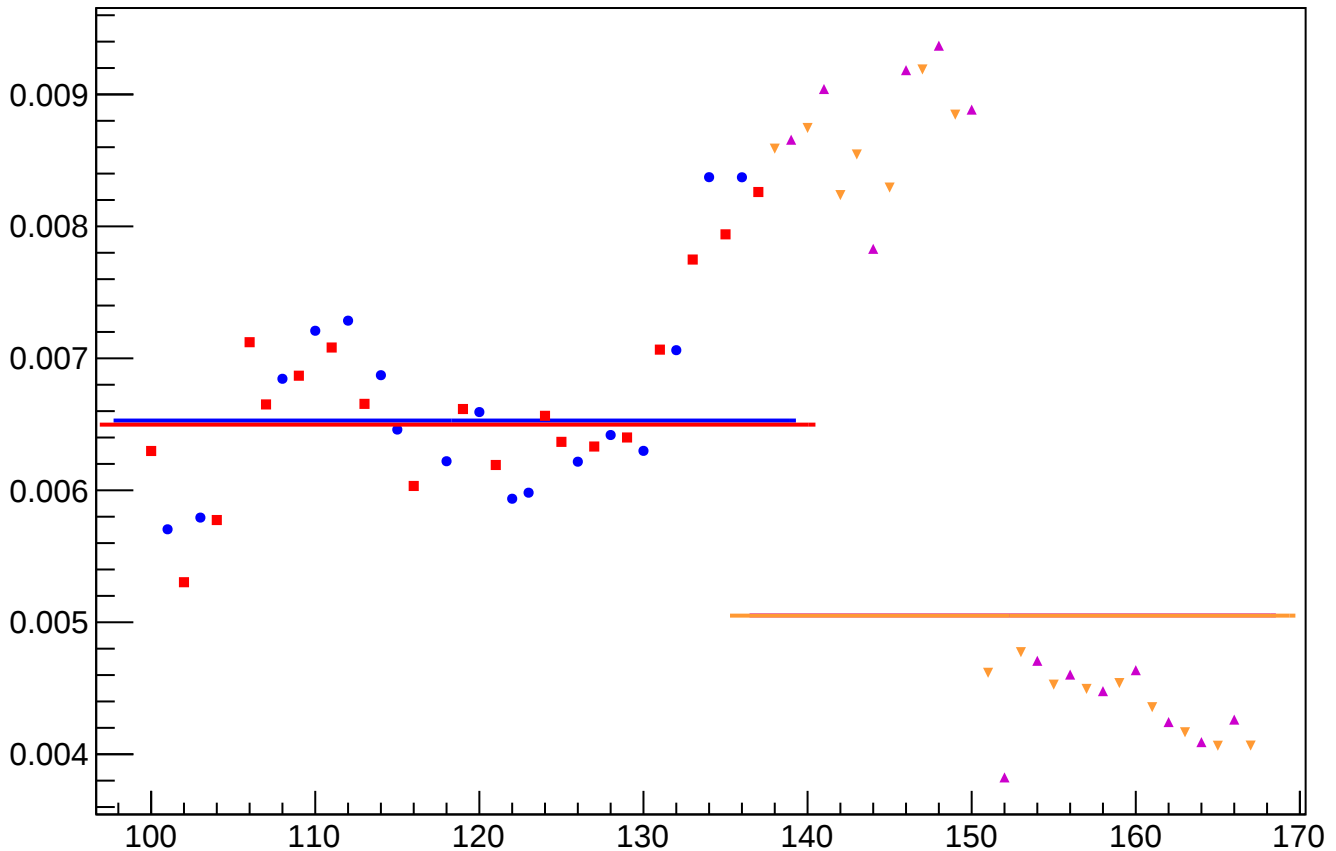
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.234+/-0.000 χ^2/NDF : 72856580521.5/30

Out: -2.215+/-0.000 χ^2/NDF : 58632135345.0/34

All: -2.224+/-0.000 χ^2/NDF : 131592982791.3

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 176467.7/16

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2003309.4/15

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 164144.2/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2060736.7/13

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4064047.1/29

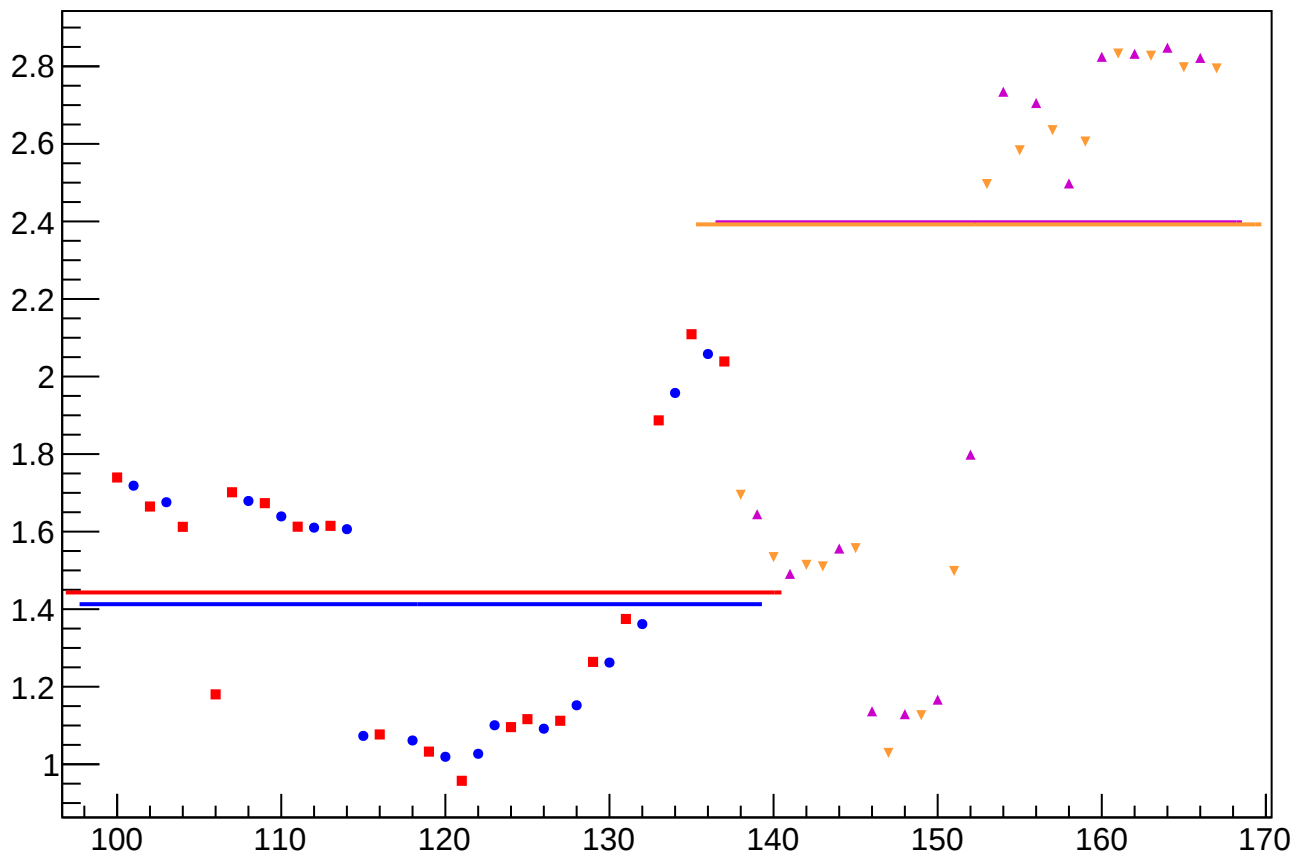
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 340761.0/35

In: 0.005 $\pm$ 0.000 χ^2 /NDF:2705968.2/30

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2650652.1/34

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 5356920.5/65

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Left: 2.395 $\pm$ 0.000 χ^2/NDF : 439567032576.7/29

Right: 1.428 $\pm$ 0.000 χ^2/NDF : 346560852941.7/35

In: 1.717 $\pm$ 0.000 χ^2/NDF : 846388142338.5/30

Out: 1.753 $\pm$ 0.000 χ^2/NDF : 860376994858.9/34

All: 1.735 $\pm$ 0.000 χ^2/NDF : 1708245713101.

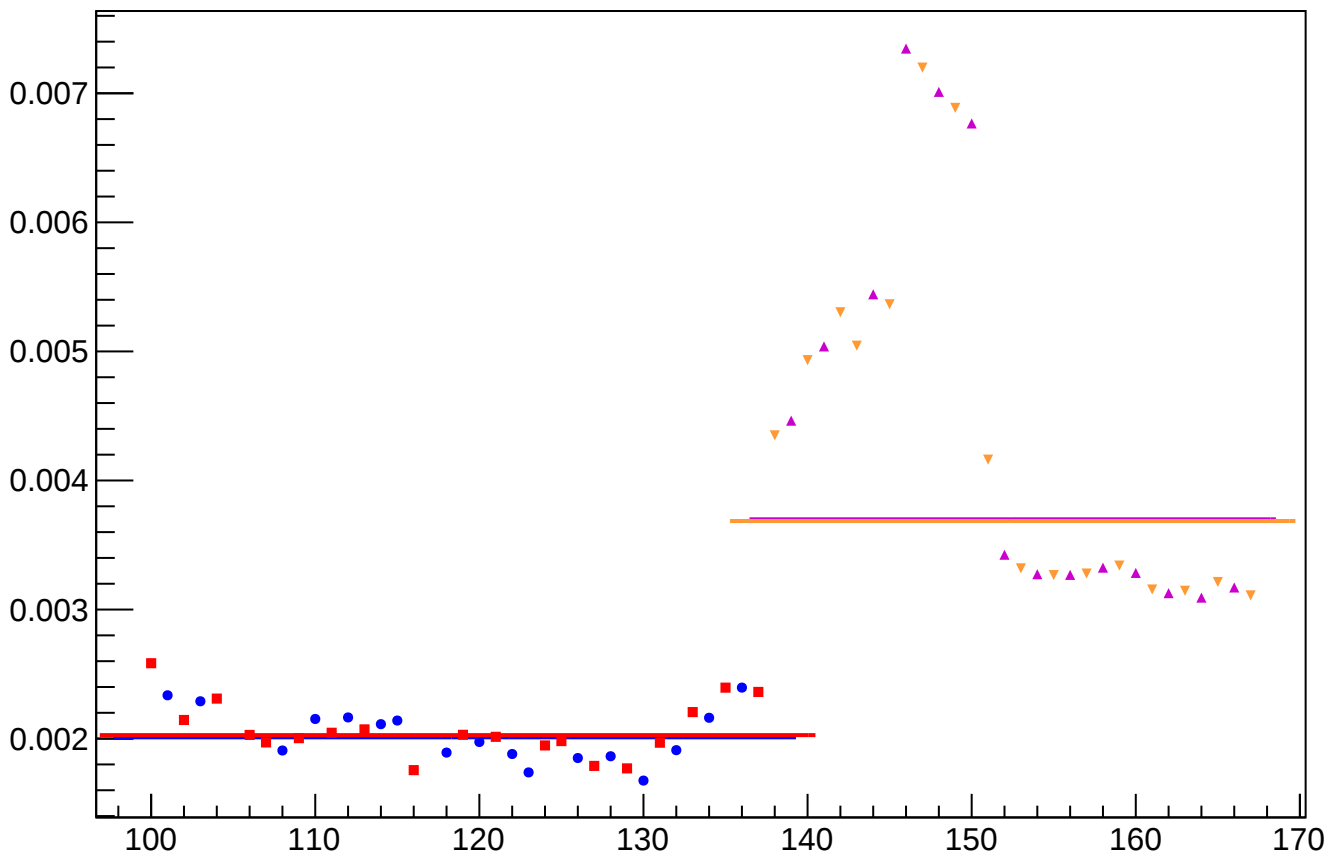
Right In: 1.413 $\pm$ 0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.392 $\pm$ 0.000 χ^2/NDF : 222925118073.1/15

Right Out: 1.443 $\pm$ 0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.398 $\pm$ 0.000 χ^2/NDF : 216631243739.9/13

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:1254800.7/15

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: 2670451.5/29

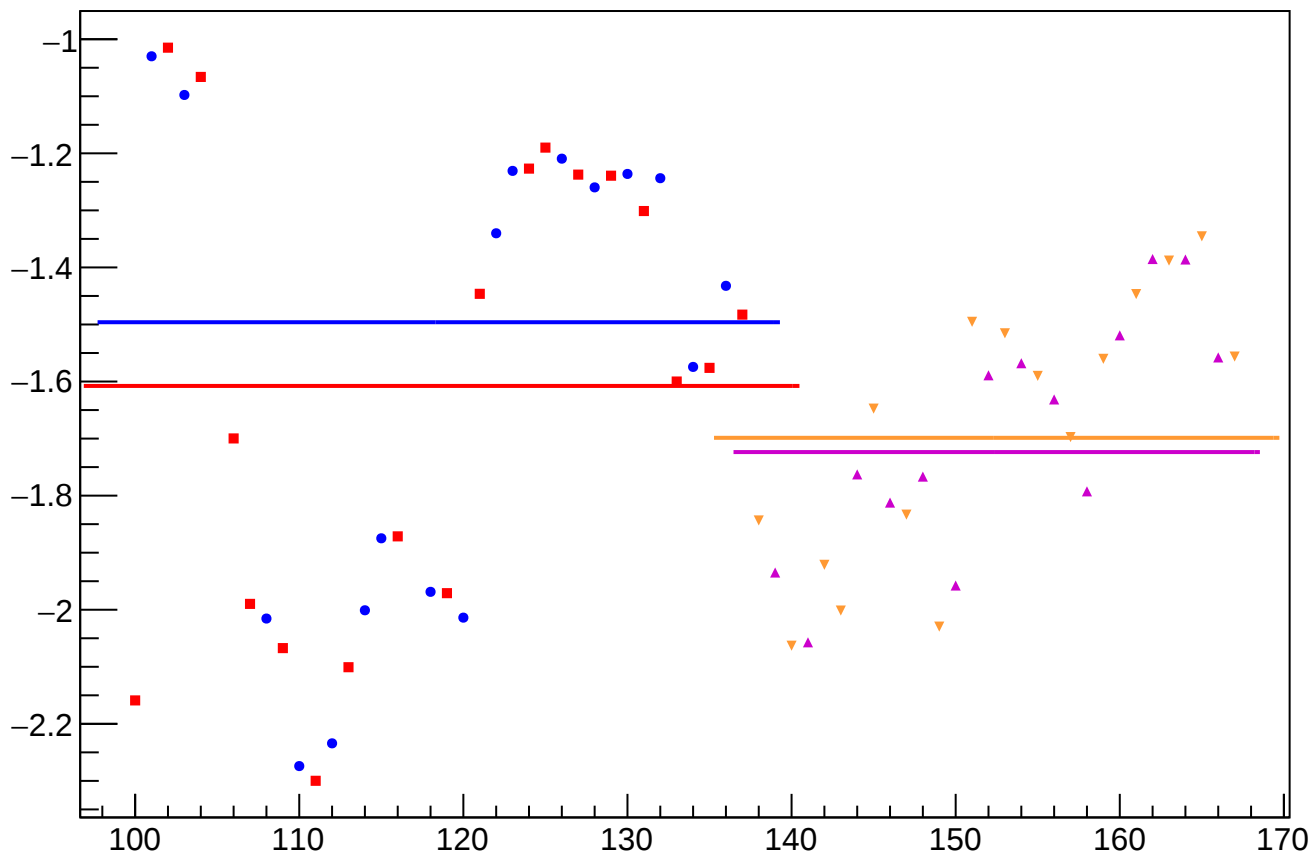
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 256903.9/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:4257262.2/30

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:4193602.0/34

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 8453990.7/65

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.699+/-0.000 χ^2/NDF : 15478655668.1/15

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: -1.710+/-0.000 χ^2/NDF : 26199071518.6/29

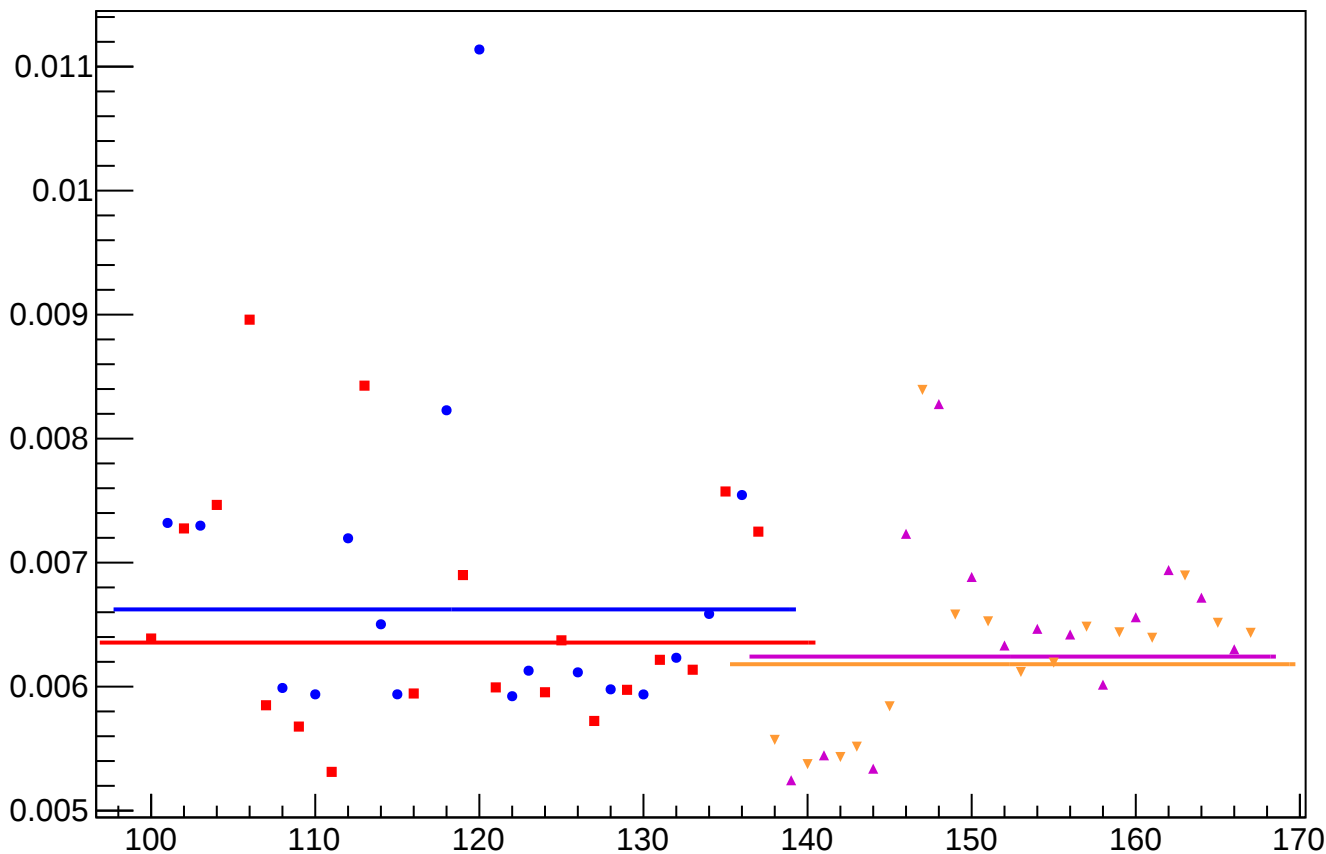
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.644+/-0.000 χ^2/NDF : 37839586174.3/30

Out: -1.666+/-0.000 χ^2/NDF : 44180612512.9/34

All: -1.656+/-0.000 χ^2/NDF : 82122041501.4/71

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 232630.4/16

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:225876.7/15

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 227861.1/18

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:286907.3/13

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 513821.1/29

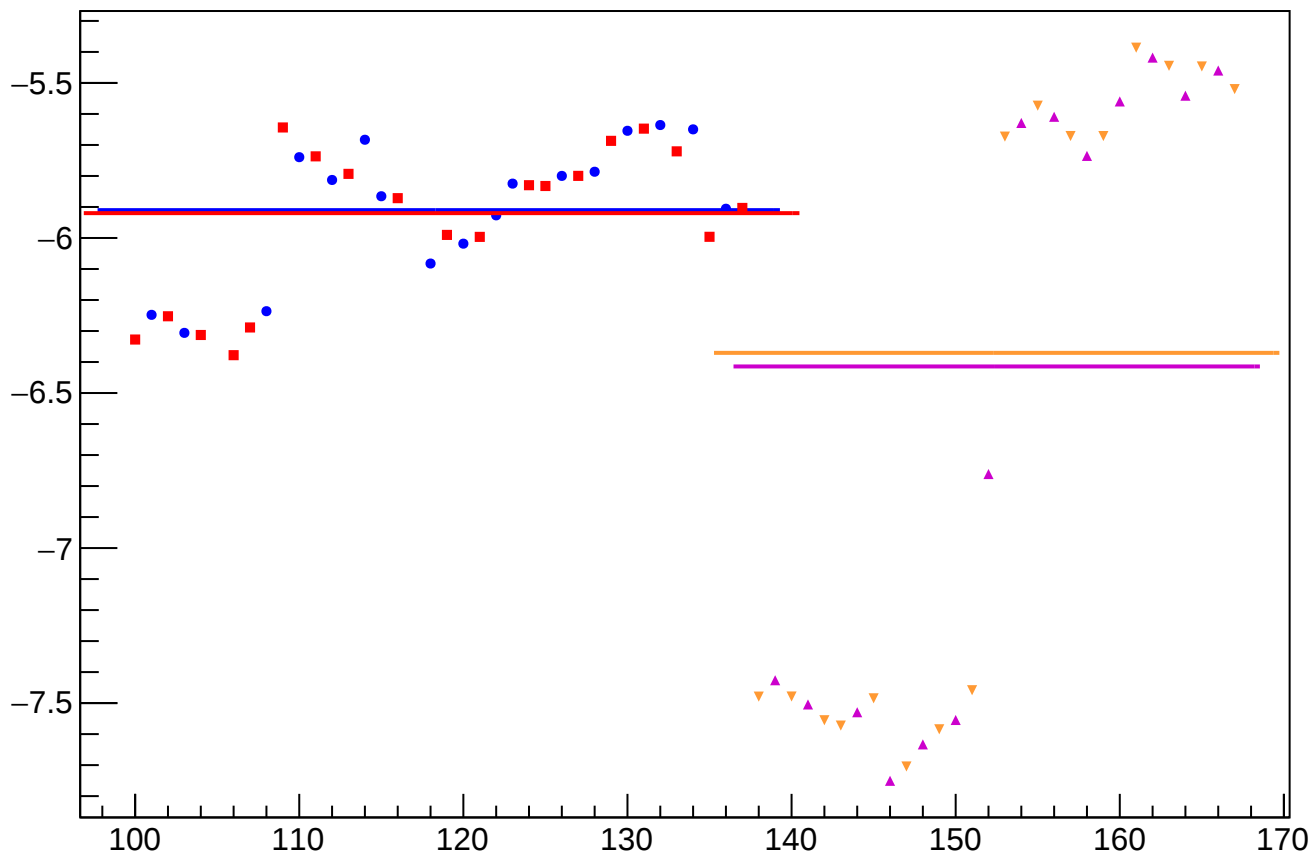
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 471227.9/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:545701.3/30

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:460114.0/34

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1013191.7/65

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.370+/-0.000 χ^2/NDF : 158536643830.2/15

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: -6.391+/-0.000 χ^2/NDF : 286031268060.9/29

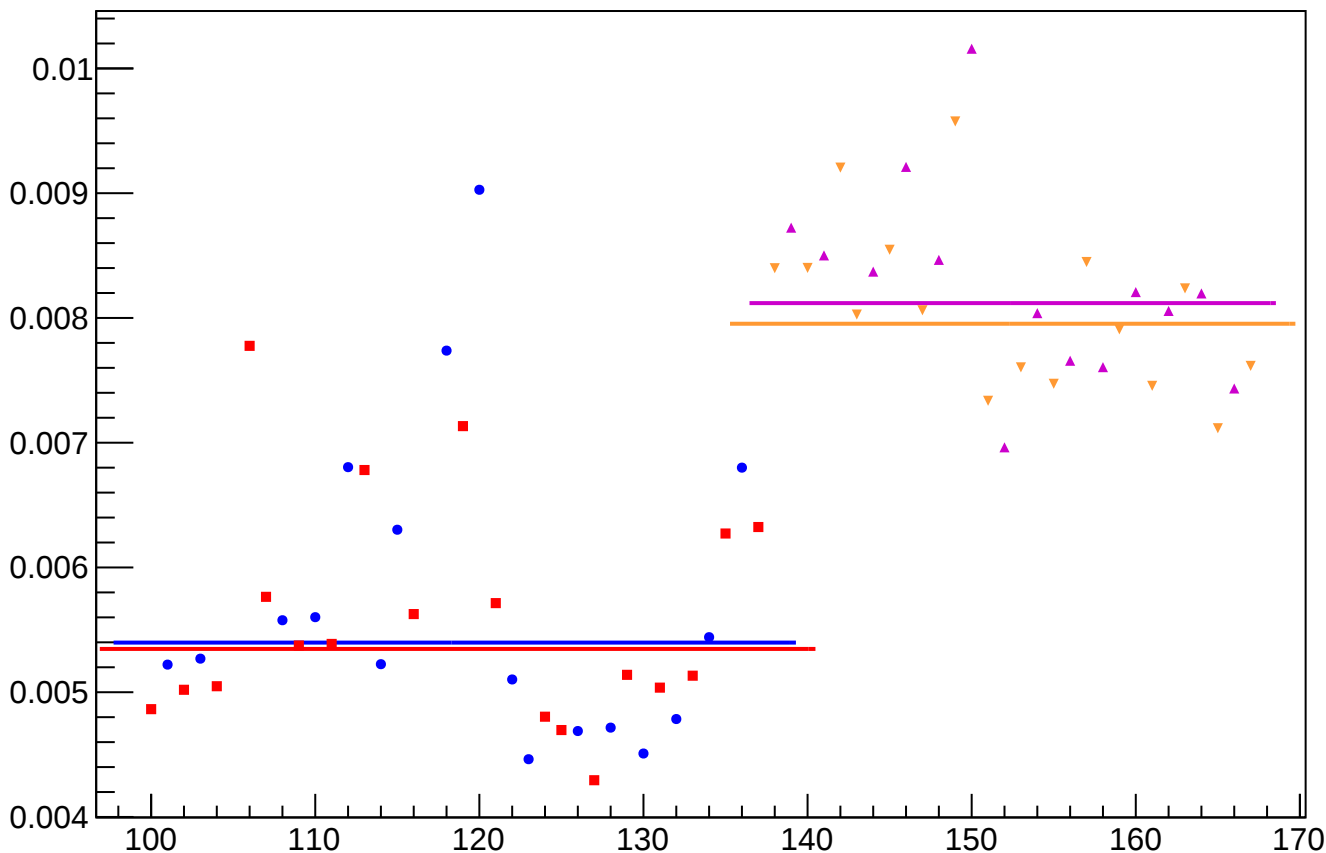
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.121+/-0.000 χ^2/NDF : 160029438012.9/30

Out: -6.111+/-0.000 χ^2/NDF : 190473760485.6/34

All: -6.115+/-0.000 χ^2/NDF : 350521688331.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :115442.3/15

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 : 270644.0/29

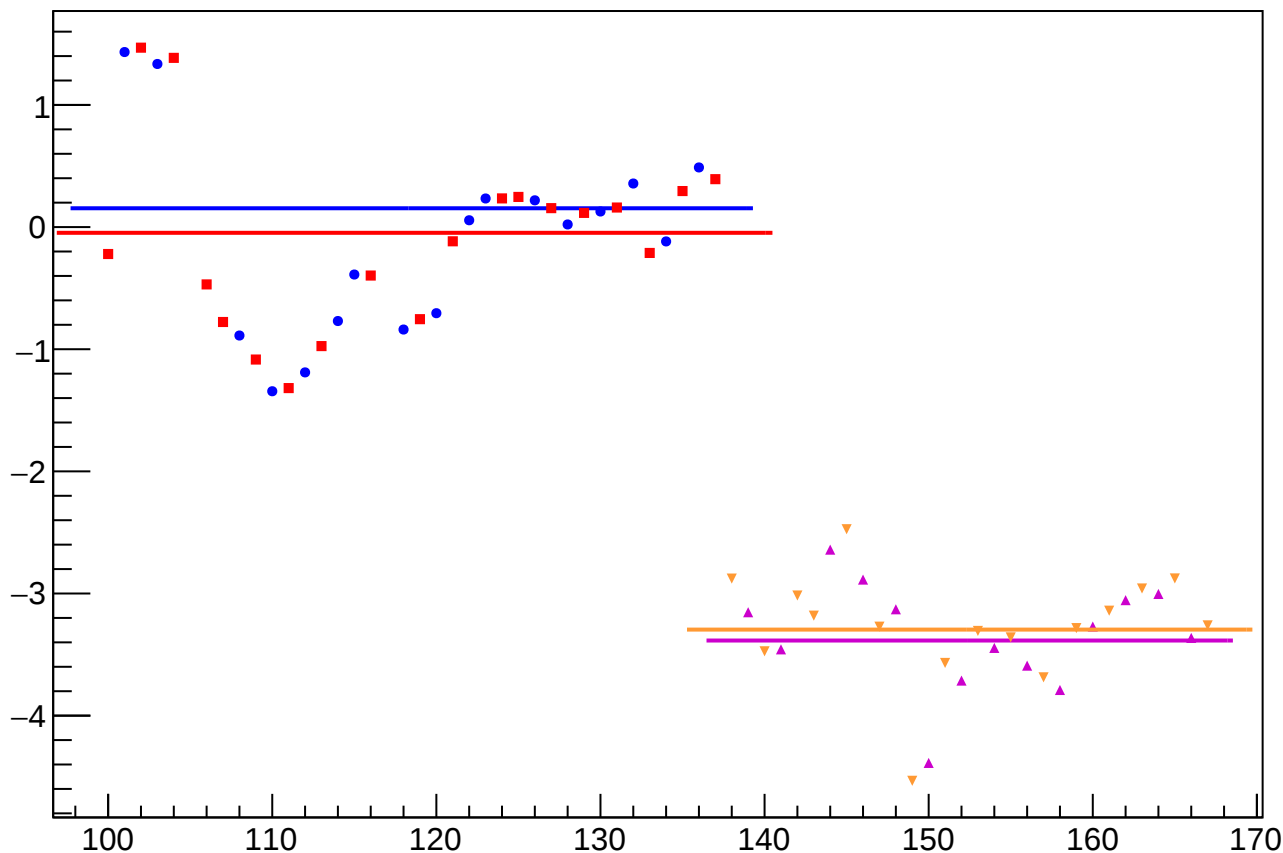
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1776880.3/30

Out: 0.006+/-0.000 χ^2/NDF :1646616.0/34

All: 0.006+/-0.000 χ^2/NDF : 3426044.8/65

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.295+/-0.000 χ^2/NDF : 7932734182.2/15

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: -3.338+/-0.000 χ^2/NDF : 14949289053.8/29

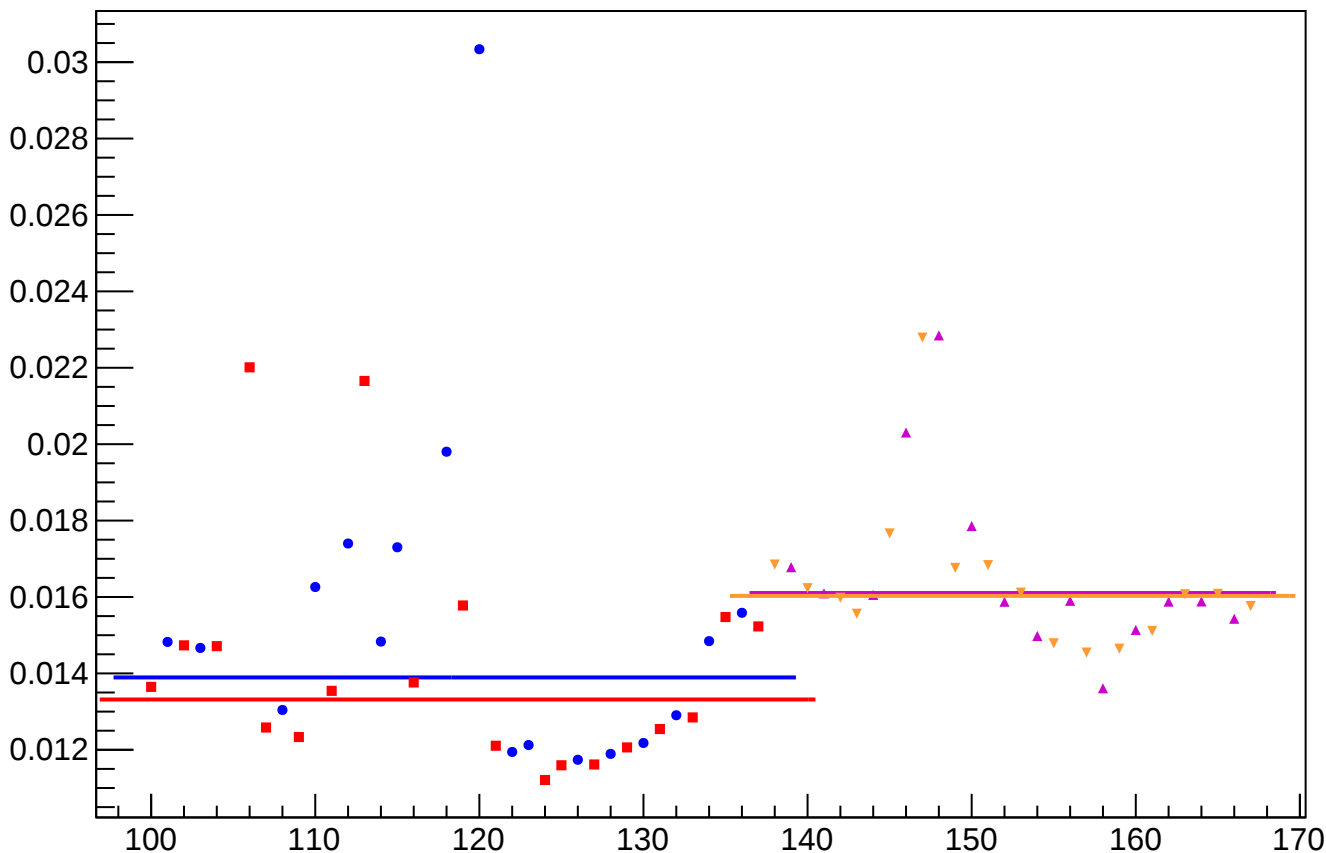
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -1.836+/-0.000 χ^2/NDF : 239901472946.8/30

Out: -1.823+/-0.000 χ^2/NDF : 239260010500.2/34

All: -1.829+/-0.000 χ^2/NDF : 479168627321.2

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 :194623.6/15

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 : 471873.3/29

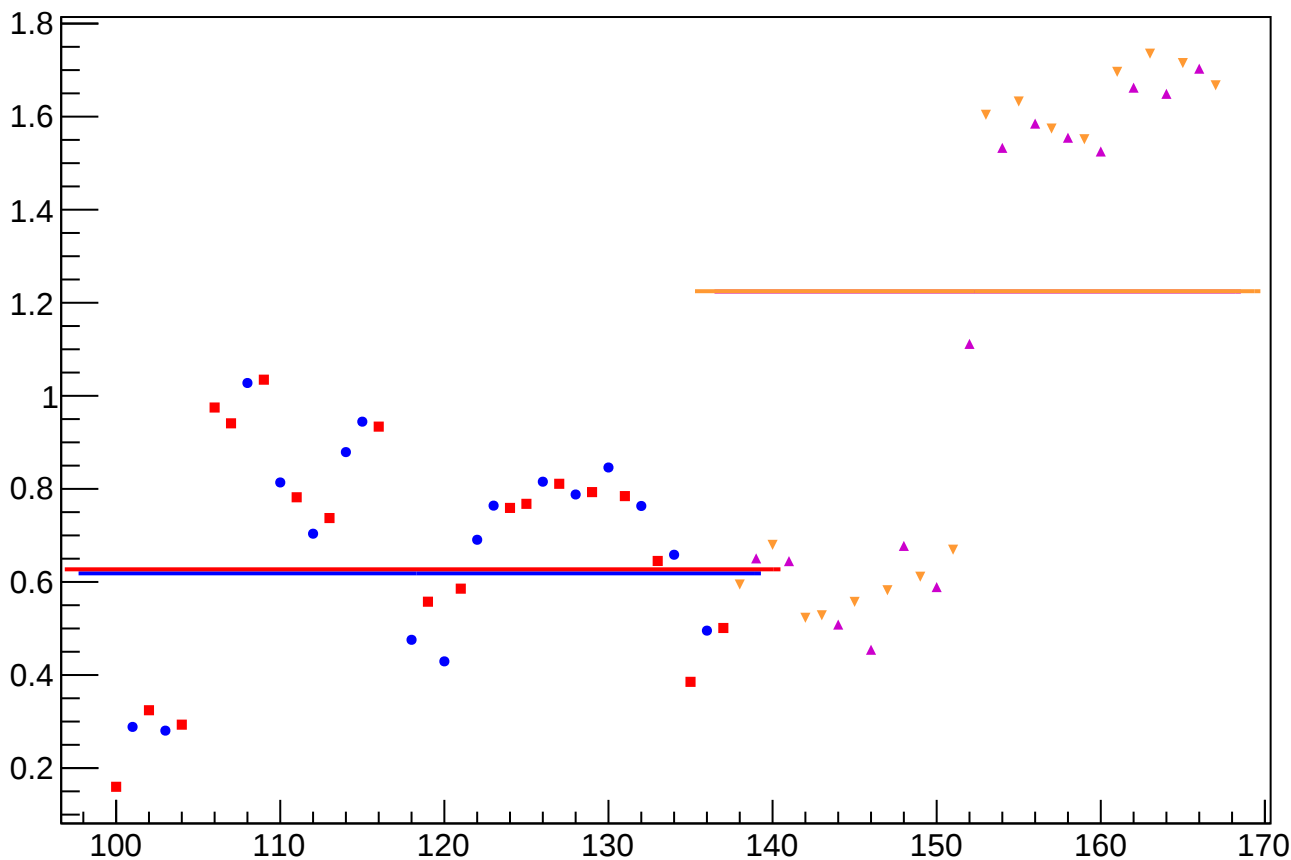
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :845985.2/30

Out: 0.015+/-0.000 χ^2/NDF :778815.7/34

All: 0.015+/-0.000 χ^2/NDF : 1633337.5/65

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.225+/-0.000 χ^2/NDF : 61922510153.1/15

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: 1.224+/-0.000 χ^2/NDF : 112769619190.8/29

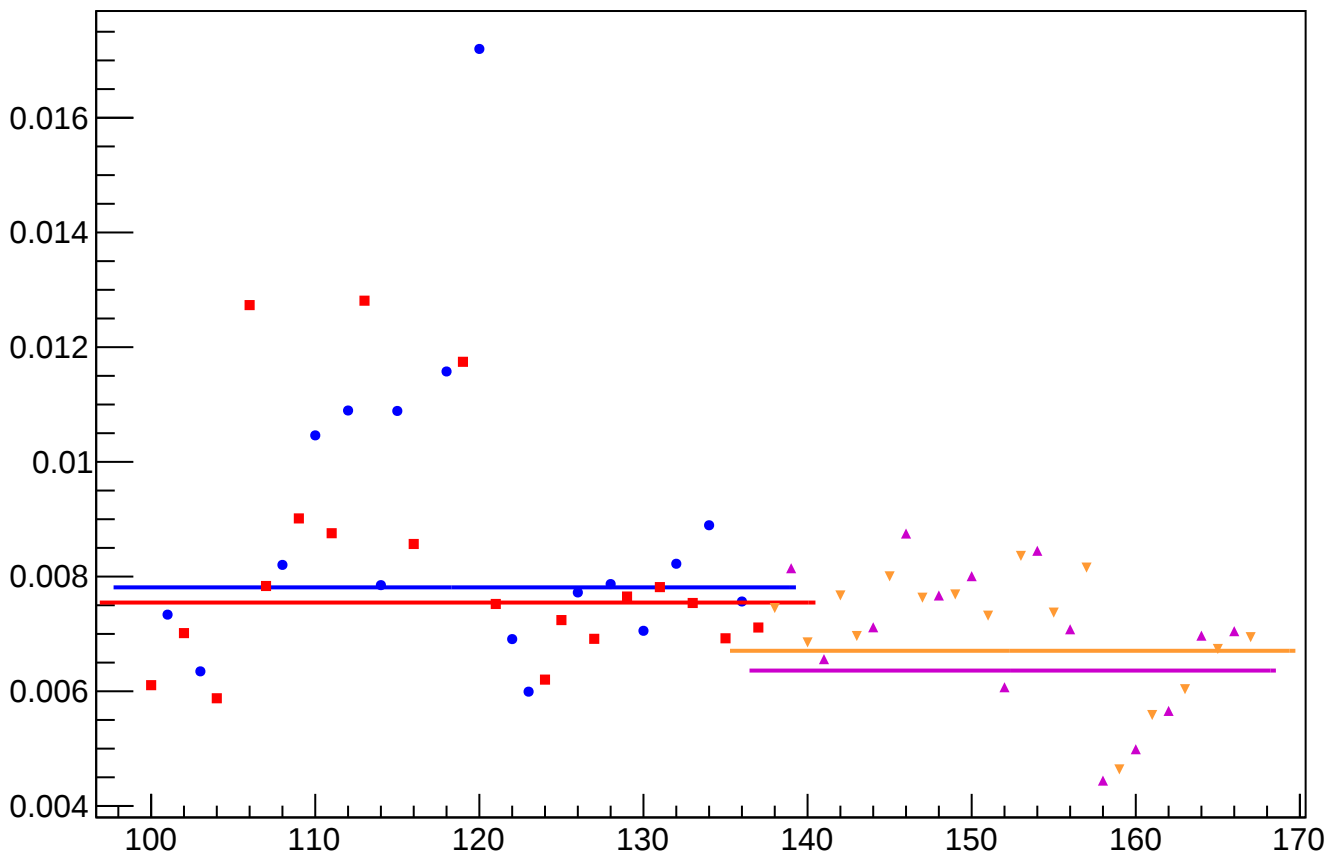
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.052+/-0.000 χ^2/NDF : 81285724445.9/30

Out: 1.036+/-0.000 χ^2/NDF : 94826644845.6/34

All: 1.044+/-0.000 χ^2/NDF : 176154990126.9

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 : 617320.9/15

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 : 1503012.1/29

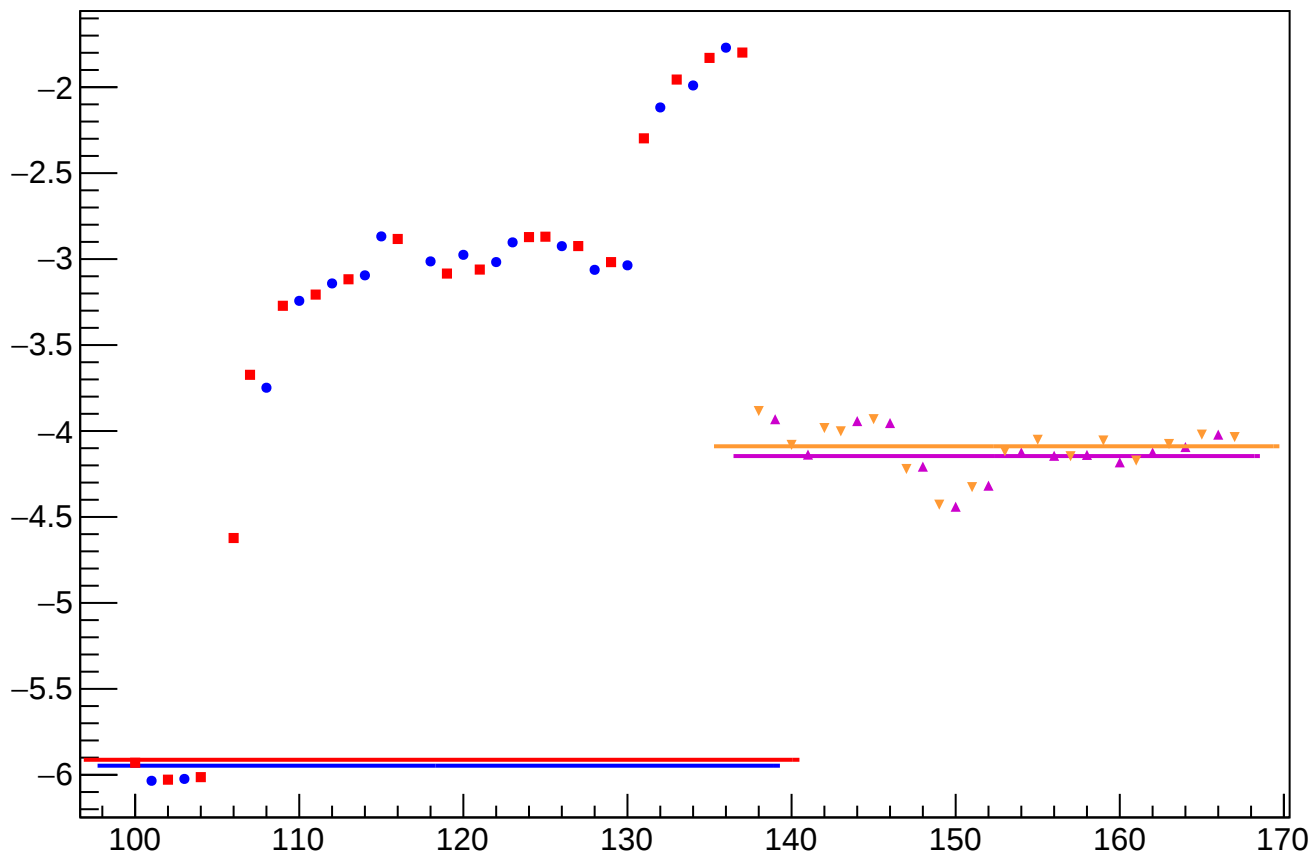
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.007+/-0.000 χ^2/NDF : 1611472.6/30

Out: 0.007+/-0.000 χ^2/NDF : 1164361.9/34

All: 0.007+/-0.000 χ^2/NDF : 2789145.7/65

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.089+/-0.000 χ^2/NDF : 32287533.9/15

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.146+/-0.000 χ^2/NDF : 21953334.5/13

Left: -4.119+/-0.000 χ^2/NDF : 57057899.8/29

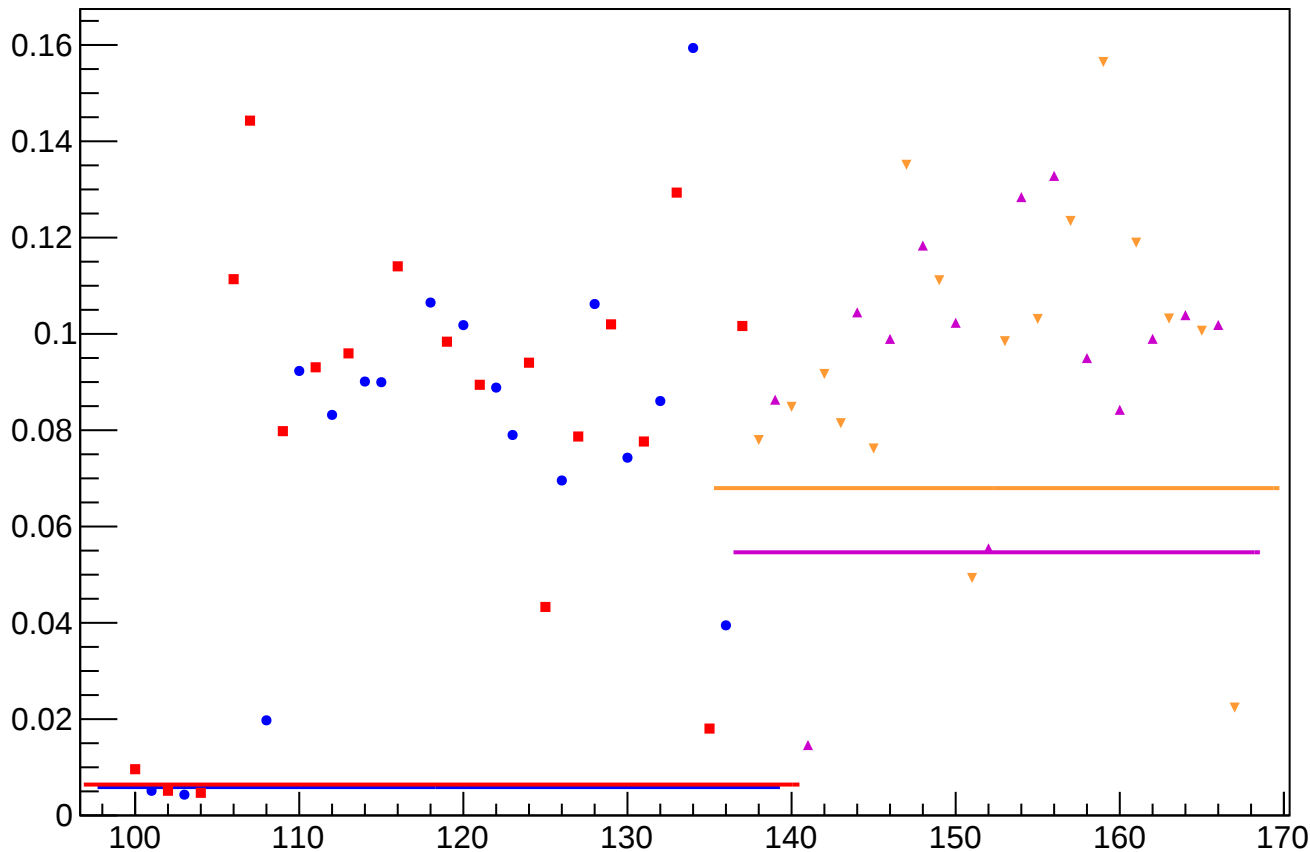
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.880+/-0.000 χ^2/NDF : 18859534871.0/30

Out: -5.836+/-0.000 χ^2/NDF : 19972403432.2/34

All: -5.861+/-0.000 χ^2/NDF : 38875430412.4/69

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.068+/-0.000 χ^2/NDF : 4448153.1/15

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: 0.061+/-0.000 χ^2/NDF : 11097537.2/29

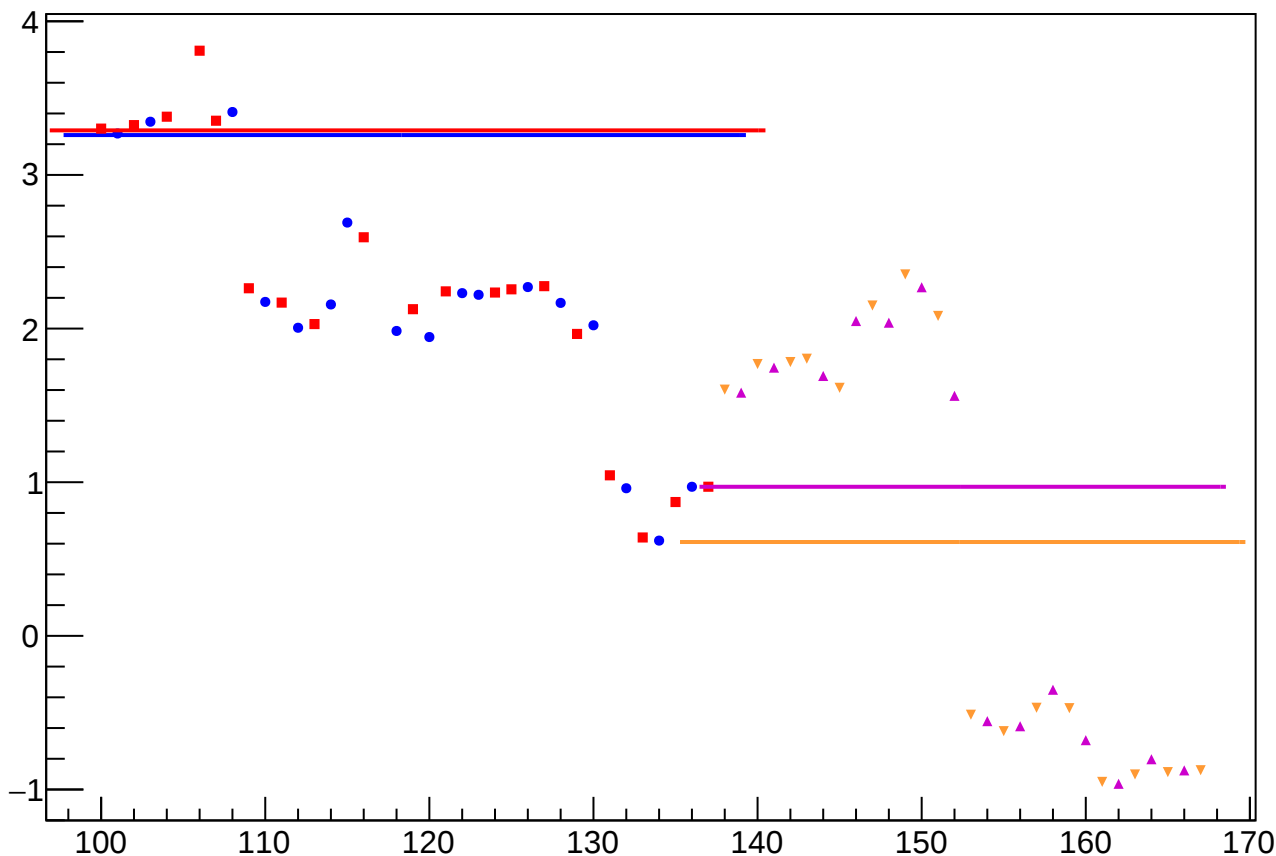
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 22588528.6/30

Out: 0.009+/-0.000 χ^2/NDF : 25071597.3/34

All: 0.008+/-0.000 χ^2/NDF : 47735290.3/65

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 0.611+/-0.000 χ^2/NDF : 2528117269.0/15

Right Out: 3.290+/-0.000 χ^2/NDF : 3262231575.5/18

Left In: 0.970+/-0.000 χ^2/NDF : 1649324574.3/13

Left: 0.778+/-0.000 χ^2/NDF : 4261008326.0/29

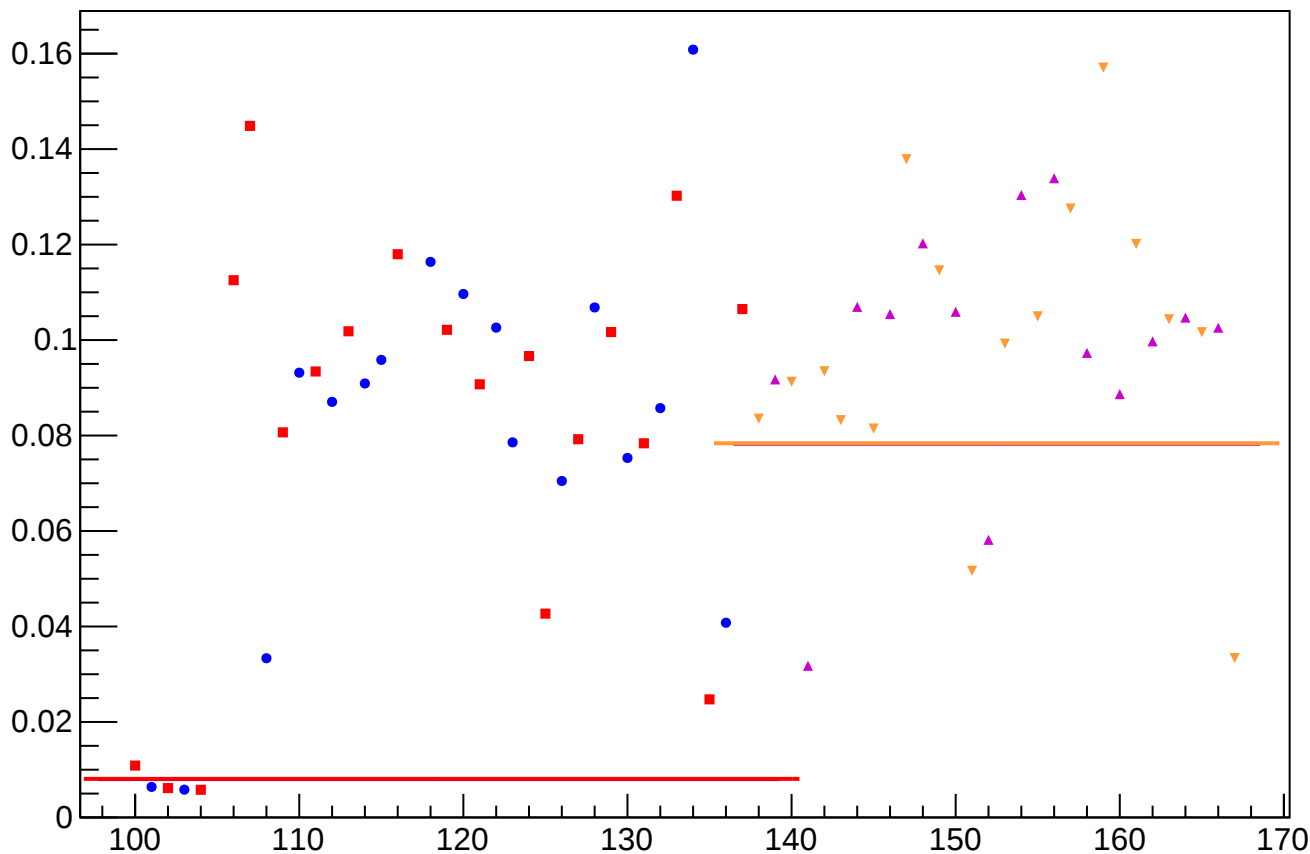
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.167+/-0.000 χ^2/NDF : 10640550830.8/30

Out: 3.156+/-0.000 χ^2/NDF : 15289884765.3/34

All: 3.162+/-0.000 χ^2/NDF : 25932263846.3/6

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.078+/-0.000 χ^2/NDF : 2961526.5/15

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: 0.078+/-0.000 χ^2/NDF : 5706687.7/29

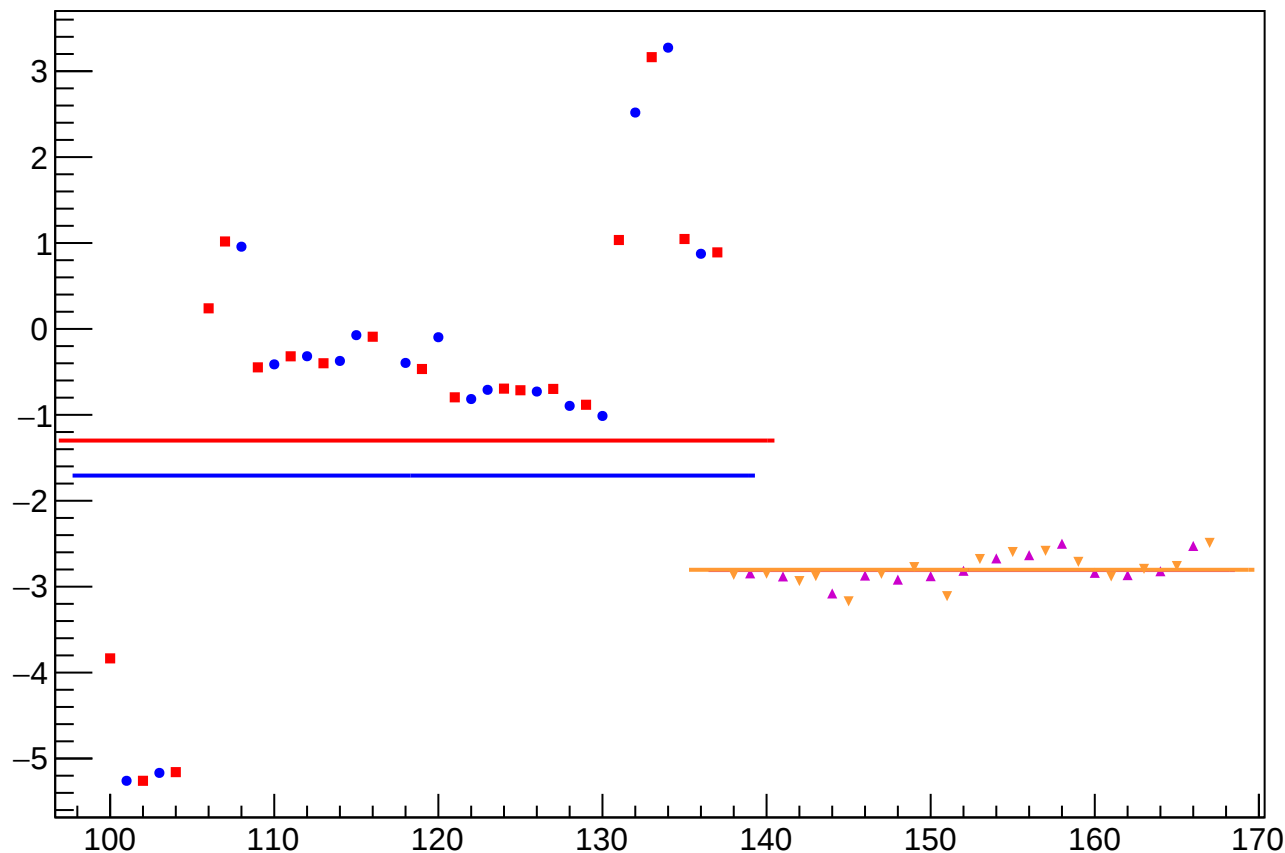
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.011+/-0.000 χ^2/NDF : 21907916.4/30

Out: 0.012+/-0.000 χ^2/NDF : 24350021.8/34

All: 0.011+/-0.000 χ^2/NDF : 46273379.6/65

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.803+/-0.000 χ^2/NDF : 5802967239.9/15

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.807+/-0.000 χ^2/NDF : 3997940850.6/13

Left: -2.805+/-0.000 χ^2/NDF : 9801774154.9/29

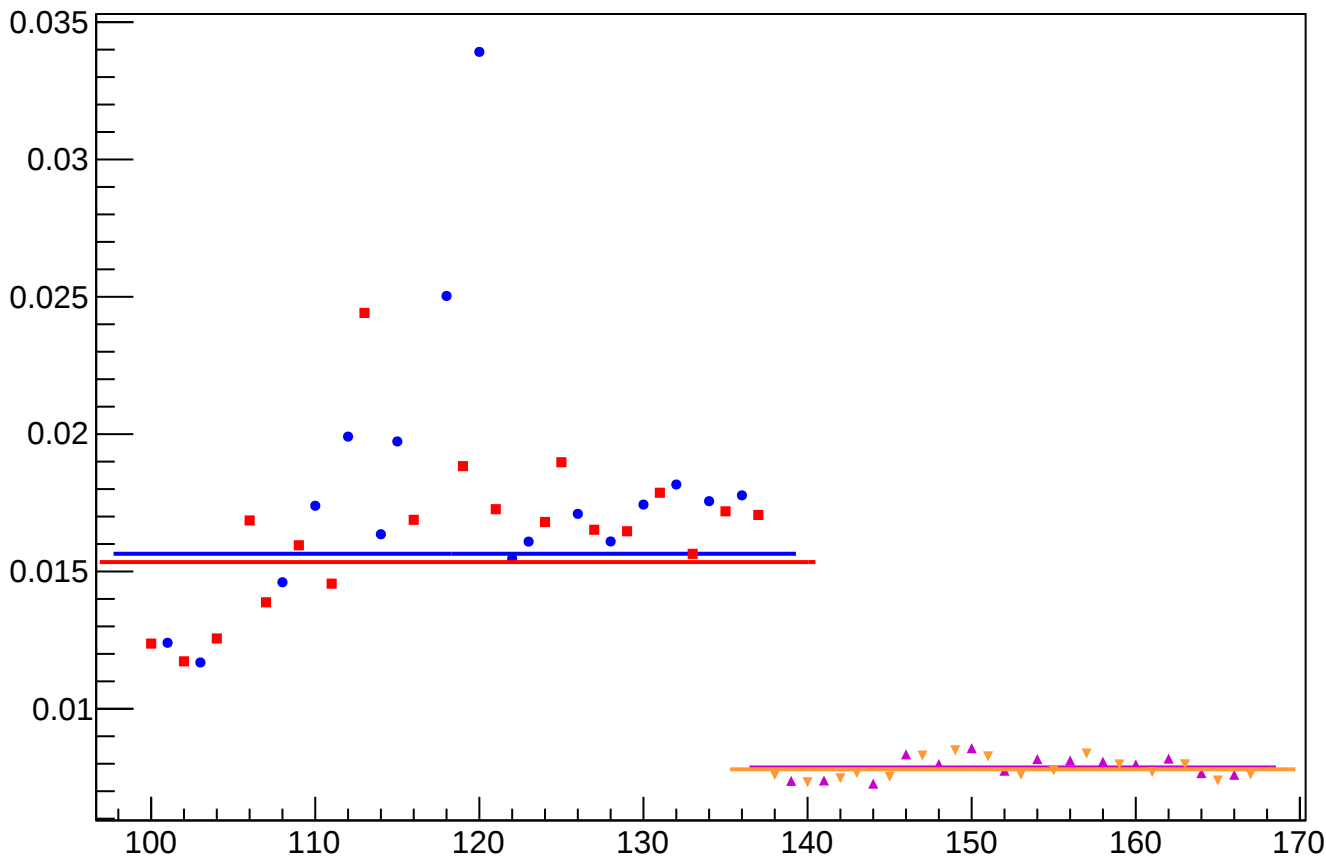
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.674+/-0.000 χ^2/NDF : 194488628796.1/30

Out: -2.617+/-0.000 χ^2/NDF : 236037630985.9/34

All: -2.644+/-0.000 χ^2/NDF : 430854000217.0

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.000 χ^2/NDF : 578244.3/16

Left Out: 0.015 $\pm$ 0.000 χ^2/NDF : 45492.7/15

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 353806.7/18

Left In: 0.008 $\pm$ 0.000 χ^2/NDF : 49752.9/13

Left: 0.008 $\pm$ 0.000 χ^2/NDF : 96088.8/29

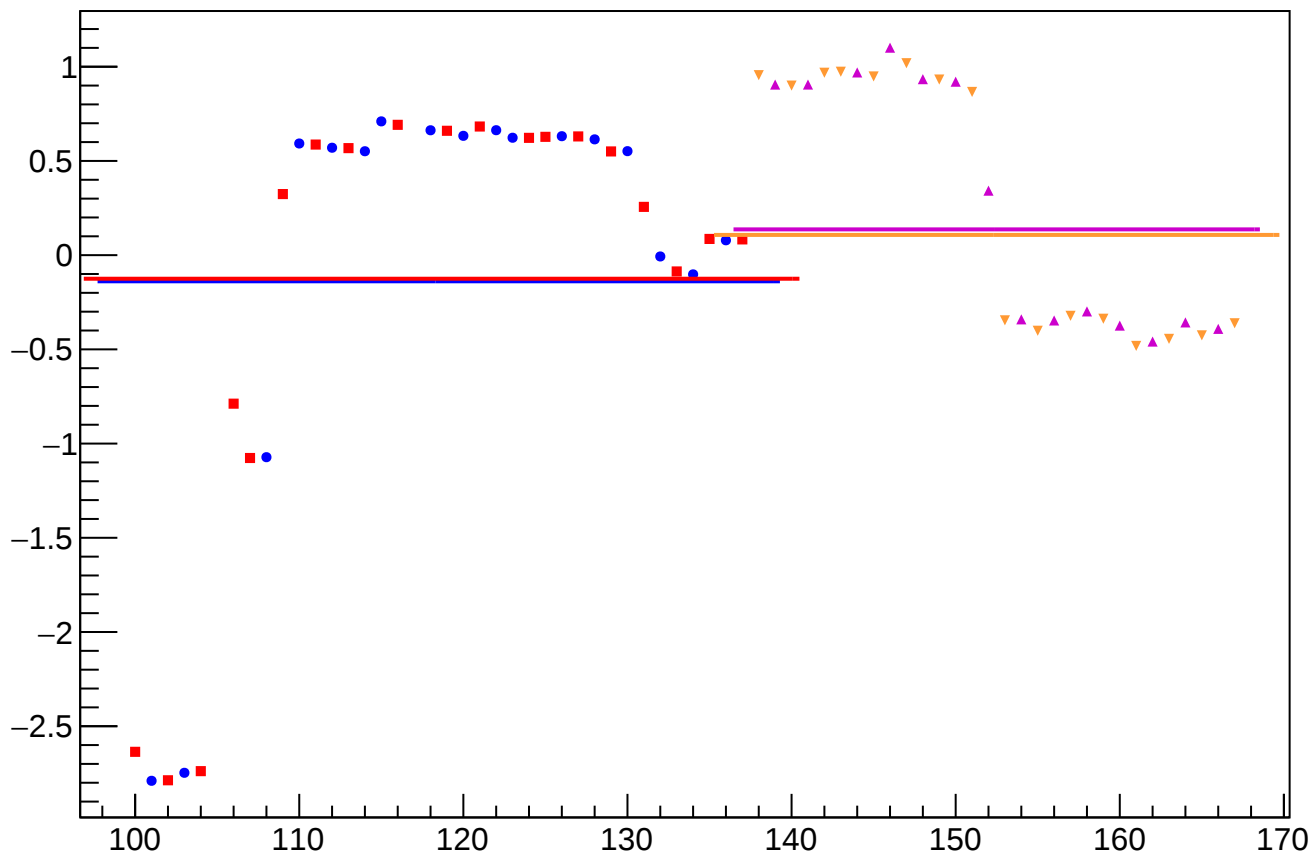
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 934296.8/35

In: 0.009 $\pm$ 0.000 χ^2/NDF : 3066525.3/30

Out: 0.009 $\pm$ 0.000 χ^2/NDF : 3026473.9/34

All: 0.009 $\pm$ 0.000 χ^2/NDF : 6093994.4/65

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Left: 0.121 +/- 0.000 χ^2/NDF : 216093524690.7/29

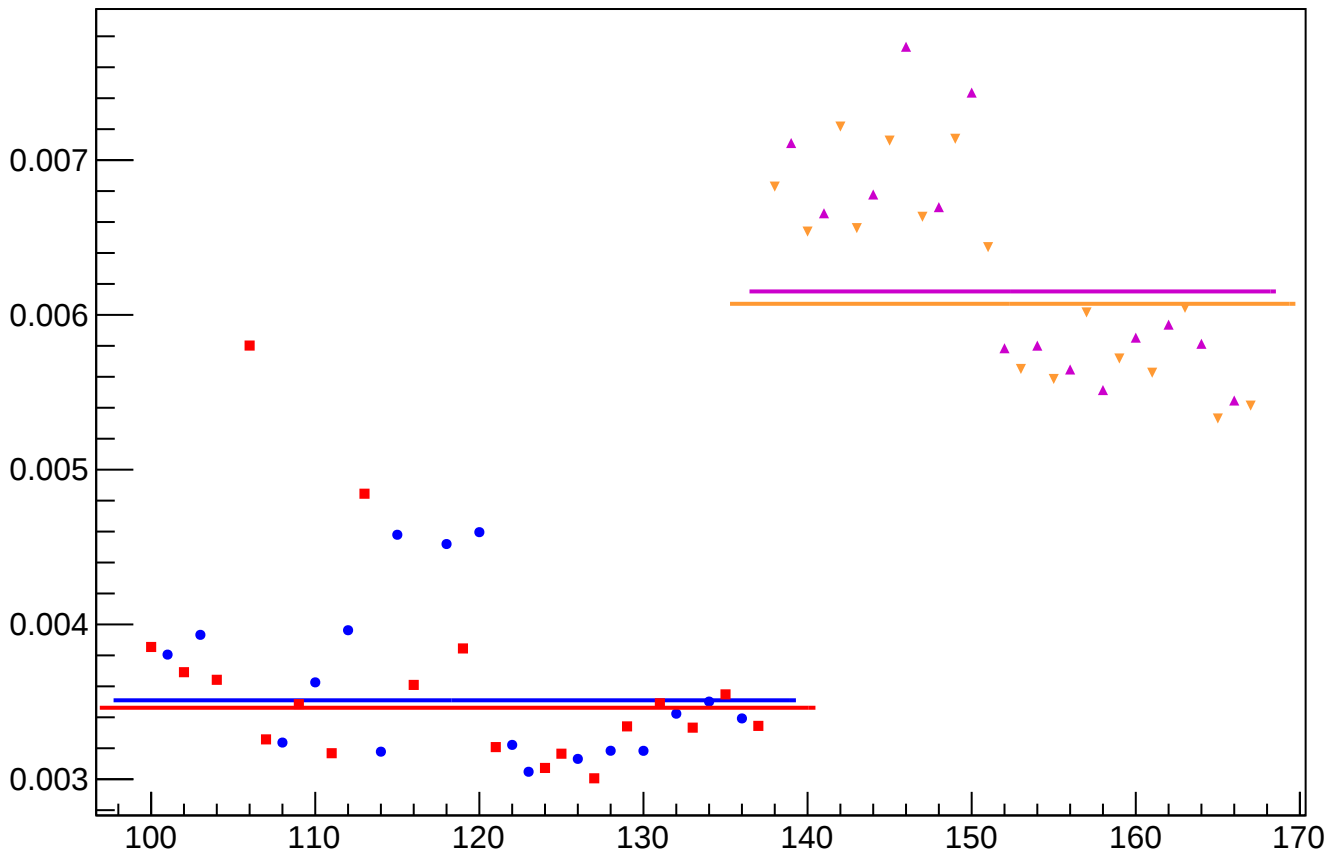
Right: -0.132 +/- 0.000 χ^2/NDF : 1476596319761.2/3

In: -0.046 +/- 0.000 χ^2/NDF : 824370698562.4/30

Out: -0.046 +/- 0.000 χ^2/NDF : 891475522037.3/34

All: -0.046 +/- 0.000 χ^2/NDF : 1715846222594

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 :200542.9/15

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 : 425790.1/29

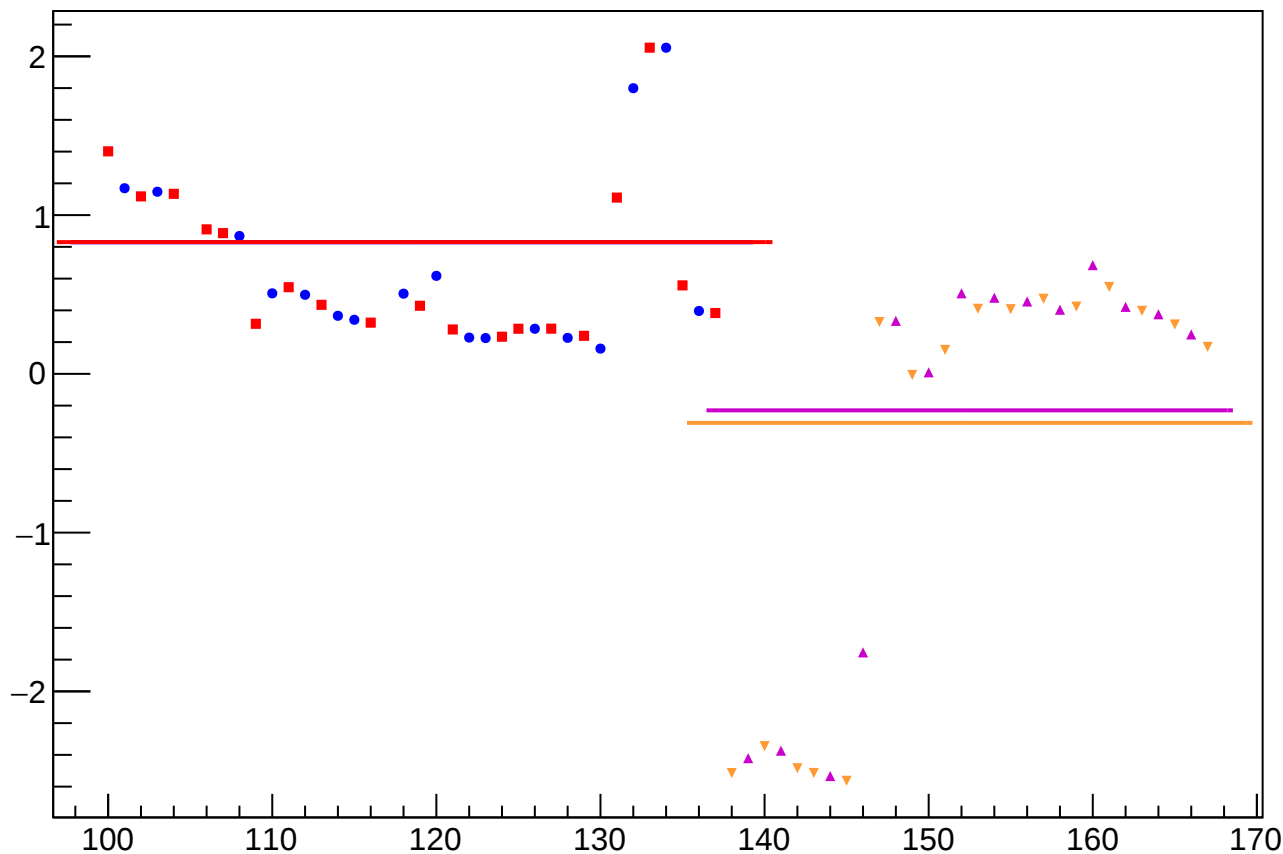
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.004+/-0.000 χ^2/NDF :2795088.9/30

Out: 0.004+/-0.000 χ^2/NDF :3004448.2/34

All: 0.004+/-0.000 χ^2/NDF : 5801574.1/65

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.309+/-0.000 χ^2/NDF : 449559037228.4/15

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: -0.271+/-0.000 χ^2/NDF : 835129219098.3/29

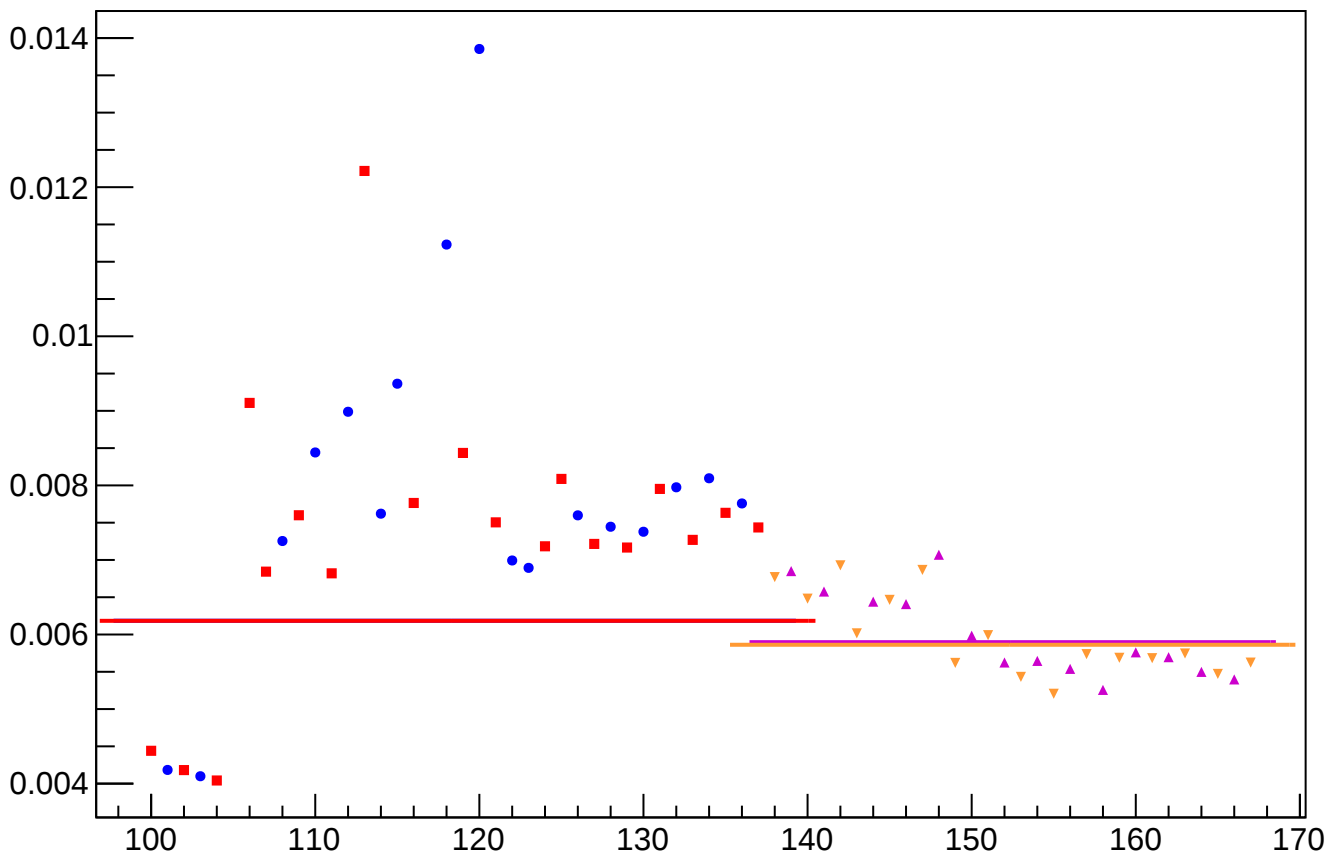
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.113+/-0.000 χ^2/NDF : 521727763588.3/30

Out: 0.059+/-0.000 χ^2/NDF : 616247470584.0/34

All: 0.084+/-0.000 χ^2/NDF : 1138631860923.0/78

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 : 148691.8/15

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 : 306718.9/29

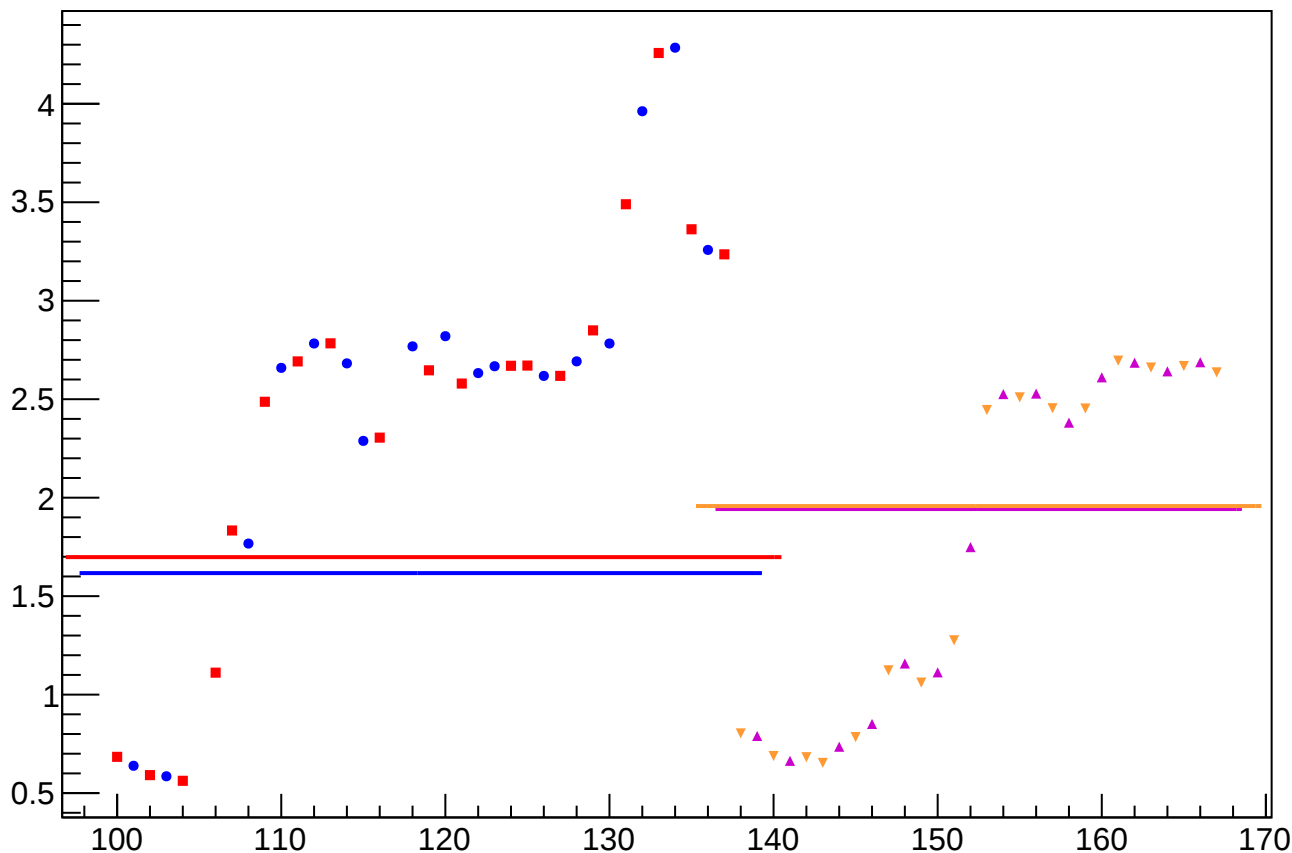
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF : 1402153.8/30

Out: 0.006+/-0.000 χ^2/NDF : 1196748.6/34

All: 0.006+/-0.000 χ^2/NDF : 2599166.8/65

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 202886791000.7/16

Left Out: 1.957 $\pm$ 0.000 χ^2/NDF : 244647498411.7/15

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: 1.950 $\pm$ 0.000 χ^2/NDF : 447417417172.8/29

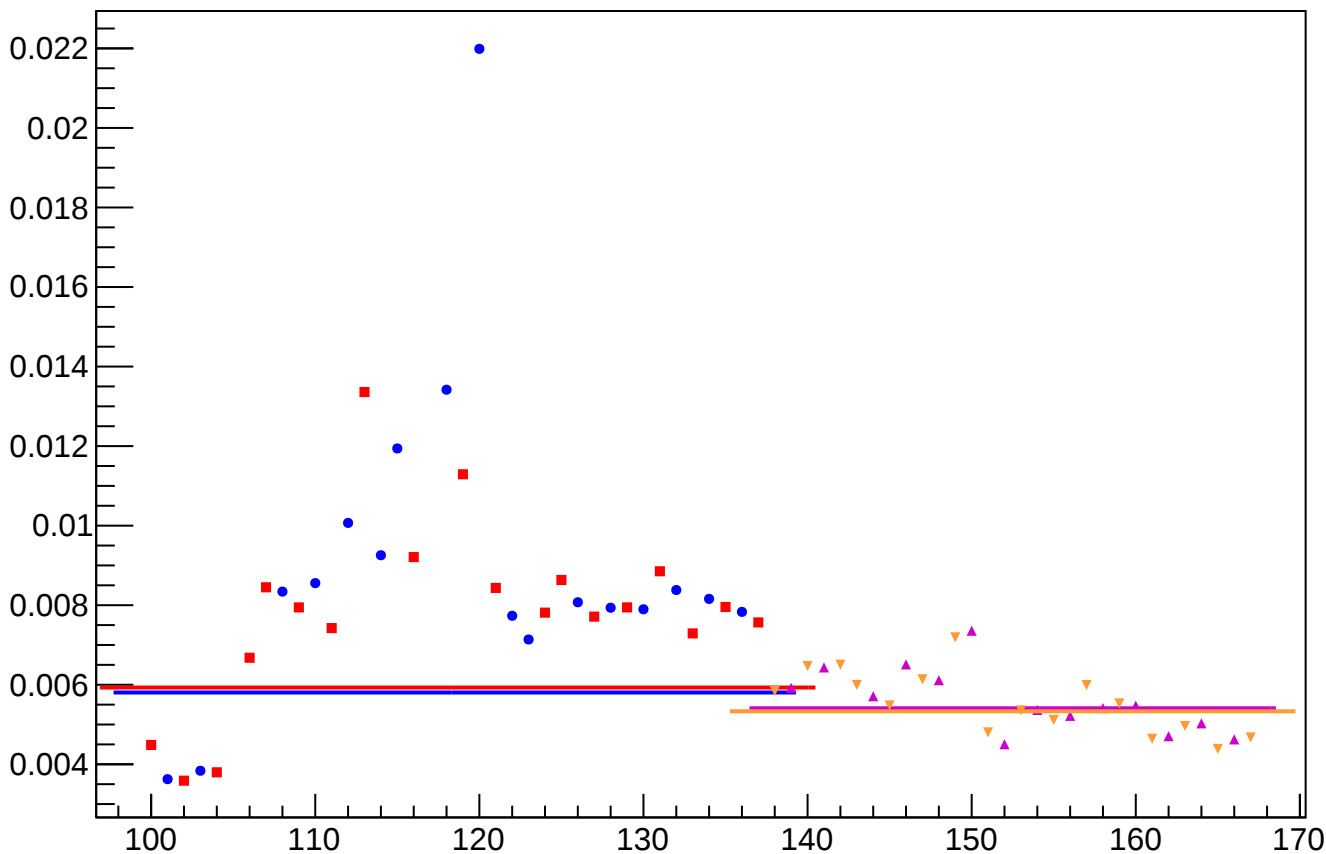
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 430781224378.3/35

In: 1.843 $\pm$ 0.000 χ^2/NDF : 416162415525.5/30

Out: 1.881 $\pm$ 0.000 χ^2/NDF : 479274909510.5/34

All: 1.863 $\pm$ 0.000 χ^2/NDF : 895785186962.6

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 : 361044.3/15

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 : 703112.0/29

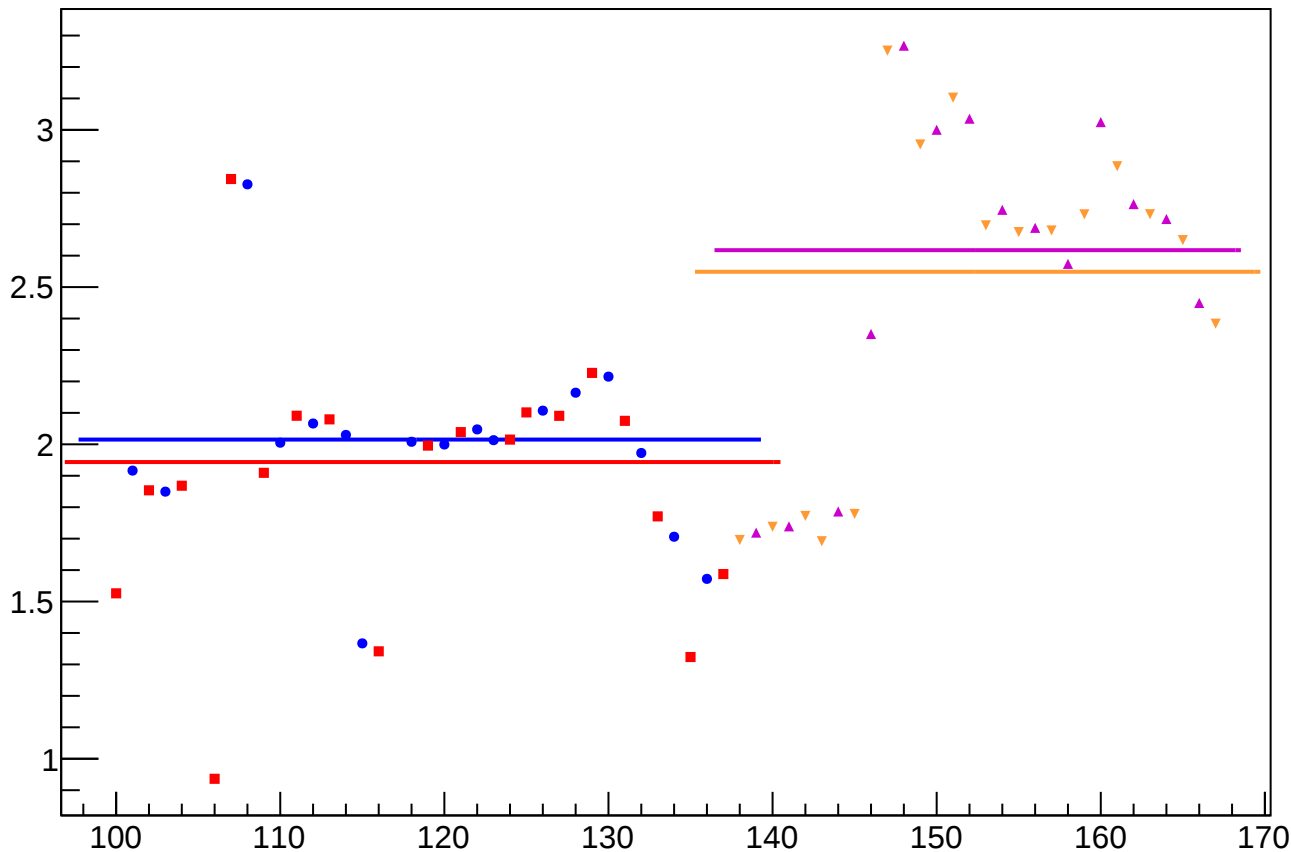
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.006+/-0.000 χ^2/NDF : 2289569.7/30

Out: 0.006+/-0.000 χ^2/NDF : 2123308.4/34

All: 0.006+/-0.000 χ^2/NDF : 4413073.4/65

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015 $\pm$ 0.000 χ^2 /NDF: 12228403202.6/16

Left Out: 2.549 $\pm$ 0.000 χ^2 /NDF: 48539480448.5/15

Right Out: 1.944 $\pm$ 0.000 χ^2 /NDF: 21427099579.0/18

Left In: 2.617 $\pm$ 0.000 χ^2 /NDF: 40909442307.9/13

Left: 2.582 $\pm$ 0.000 χ^2 /NDF: 89907693705.8/29

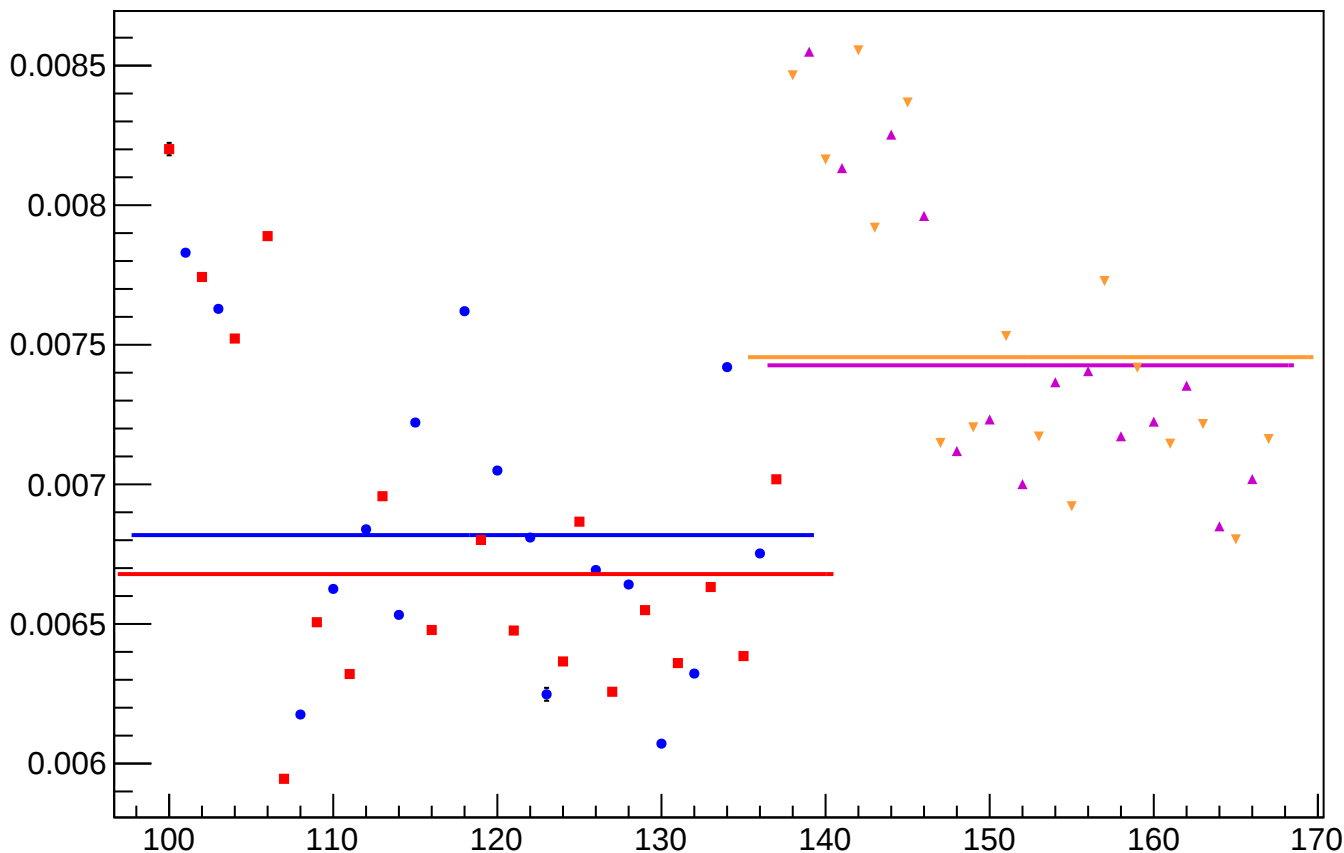
Right: 1.977 $\pm$ 0.000 χ^2 /NDF: 34023853436.2/35

In: 2.363 $\pm$ 0.000 χ^2 /NDF: 81843149736.4/30

Out: 2.288 $\pm$ 0.000 χ^2 /NDF: 101710559883.5/34

All: 2.324 $\pm$ 0.000 χ^2 /NDF: 184507246660.9

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 :100800.2/15

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 : 184202.8/29

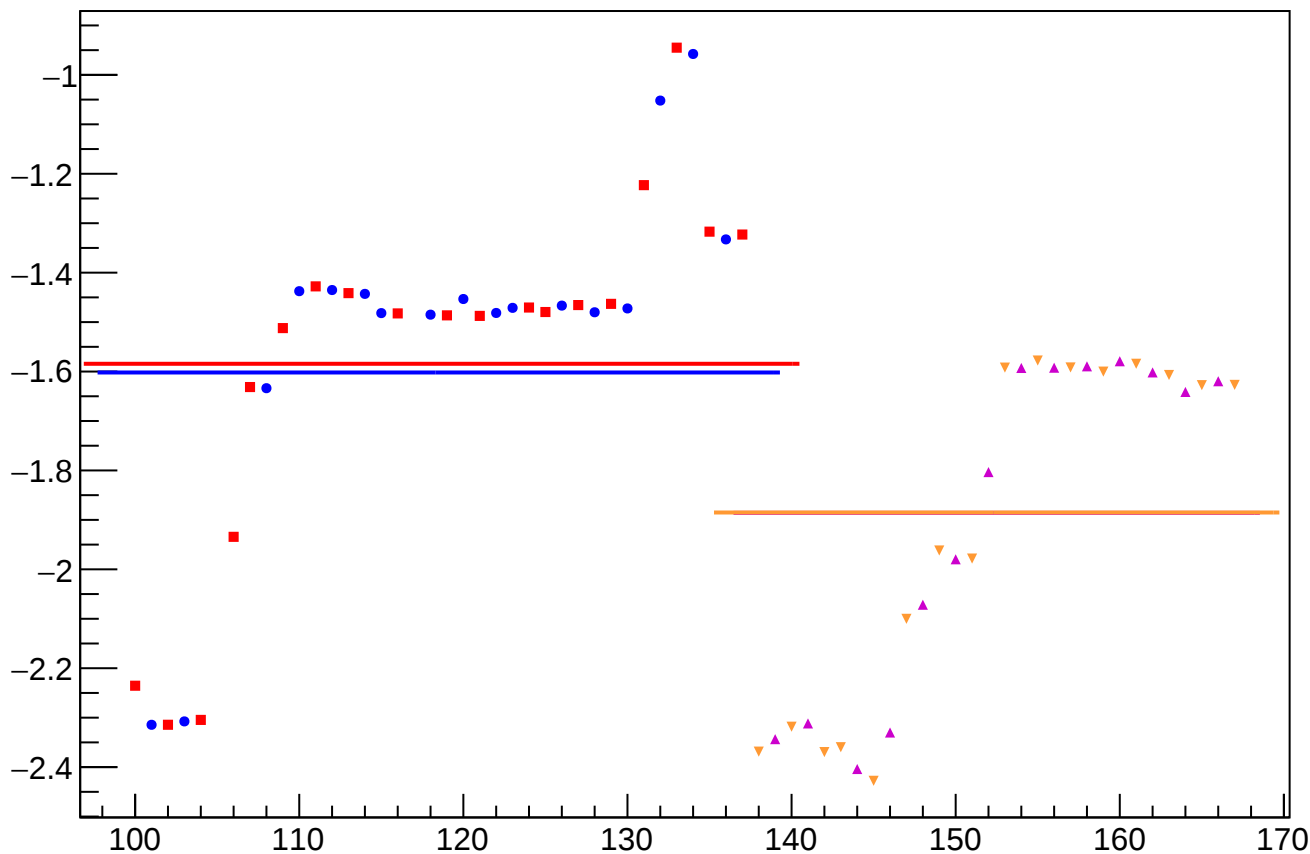
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :217578.3/30

Out: 0.007+/-0.000 χ^2/NDF :281199.4/34

All: 0.007+/-0.000 χ^2/NDF : 499577.3/65

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2 /NDF: 140200656044.3/16

Left Out: -1.885+/-0.000 χ^2 /NDF: 154465628134.6/15

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: -1.885+/-0.000 χ^2 /NDF: 287460031307.9/29

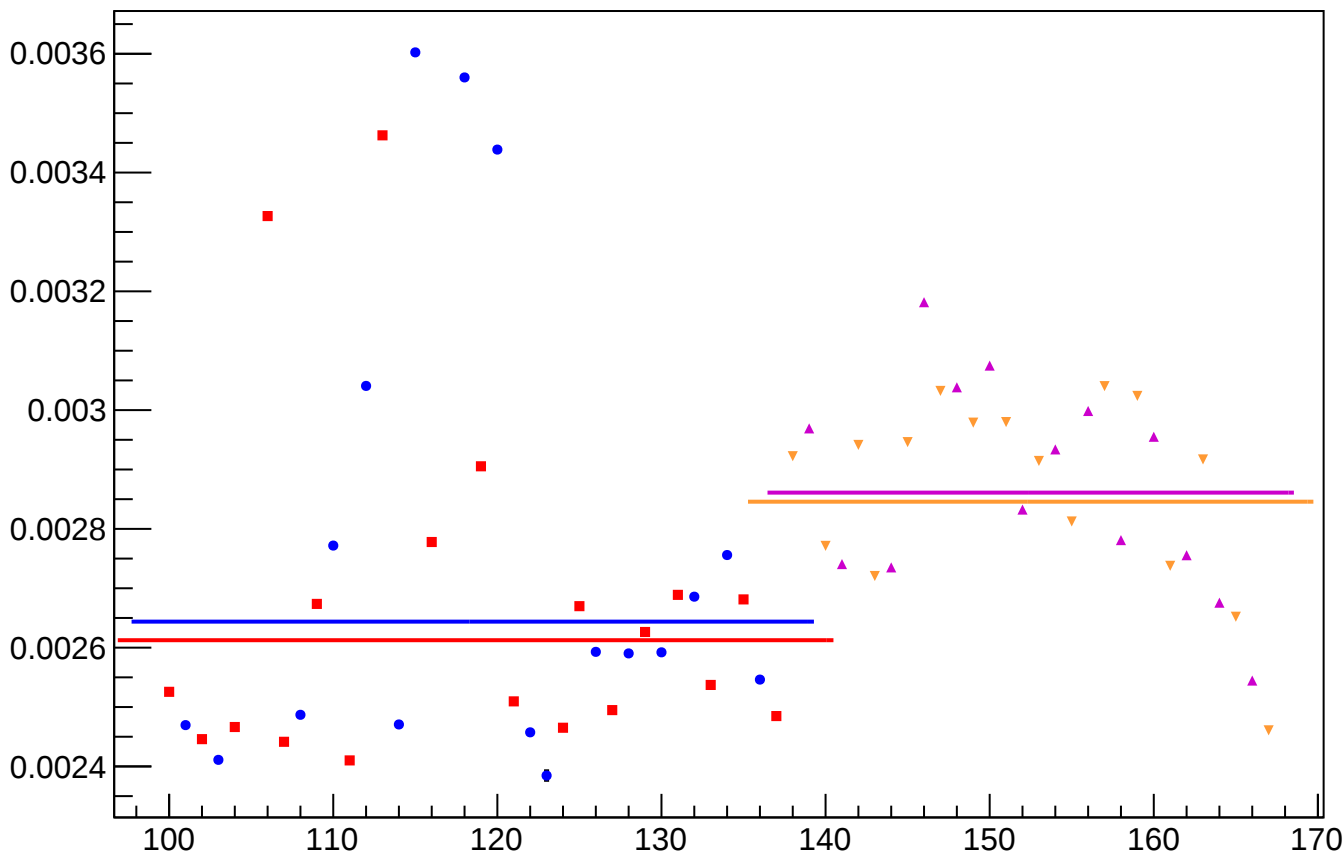
Right: -1.593+/-0.000 χ^2 /NDF: 283924451158.7/35

In: -1.767+/-0.000 χ^2 /NDF: 315417718437.7/30

Out: -1.760+/-0.000 χ^2 /NDF: 349754120995.4/34

All: -1.764+/-0.000 χ^2 /NDF: 665232113584.1

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 : 78196.3/15

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 : 145686.2/29

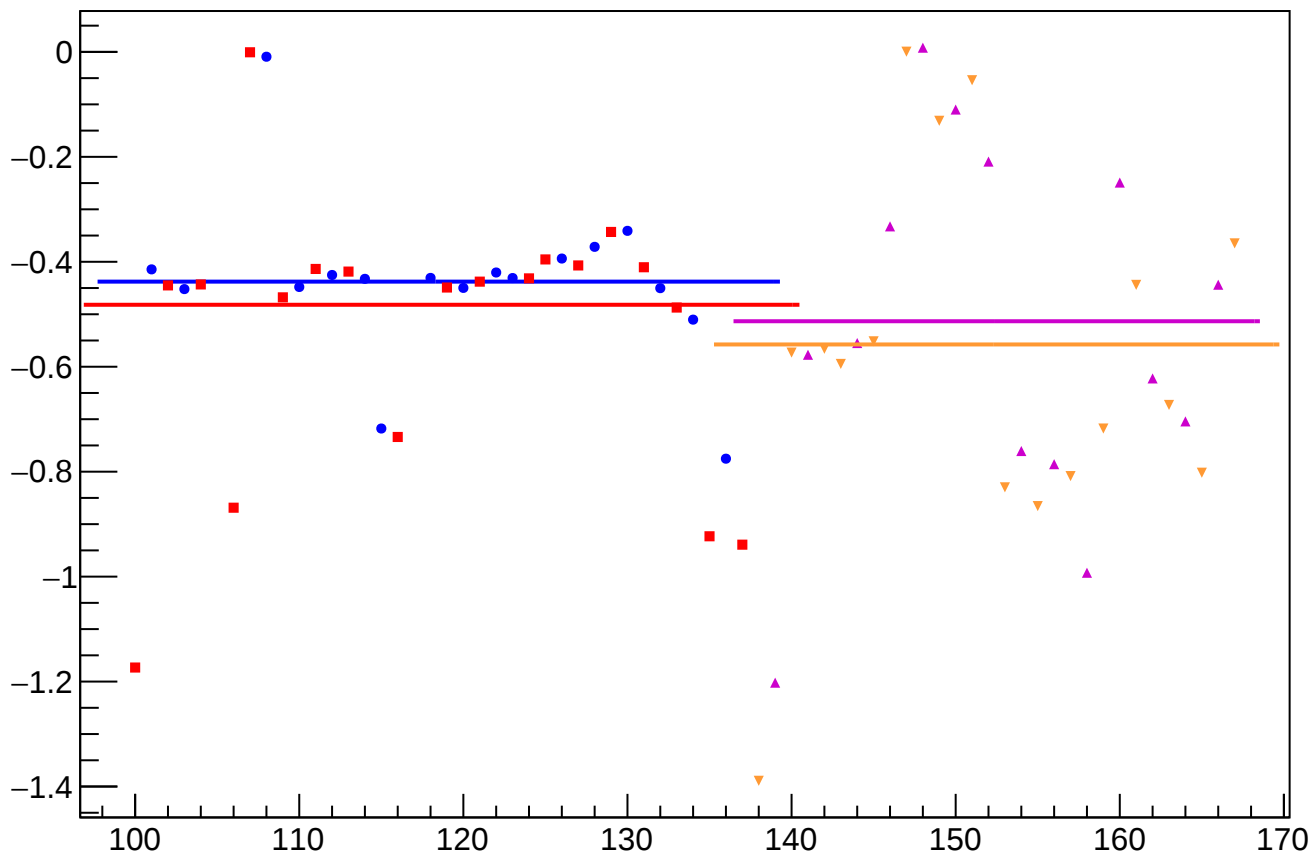
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF : 268000.0/30

Out: 0.003+/-0.000 χ^2/NDF : 245696.6/34

All: 0.003+/-0.000 χ^2/NDF : 514744.4/65

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.558+/-0.000 χ^2/NDF : 8020003280.0/15

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.513+/-0.000 χ^2/NDF : 7109778449.0/13

Left: -0.536+/-0.000 χ^2/NDF : 15196746516.6/29

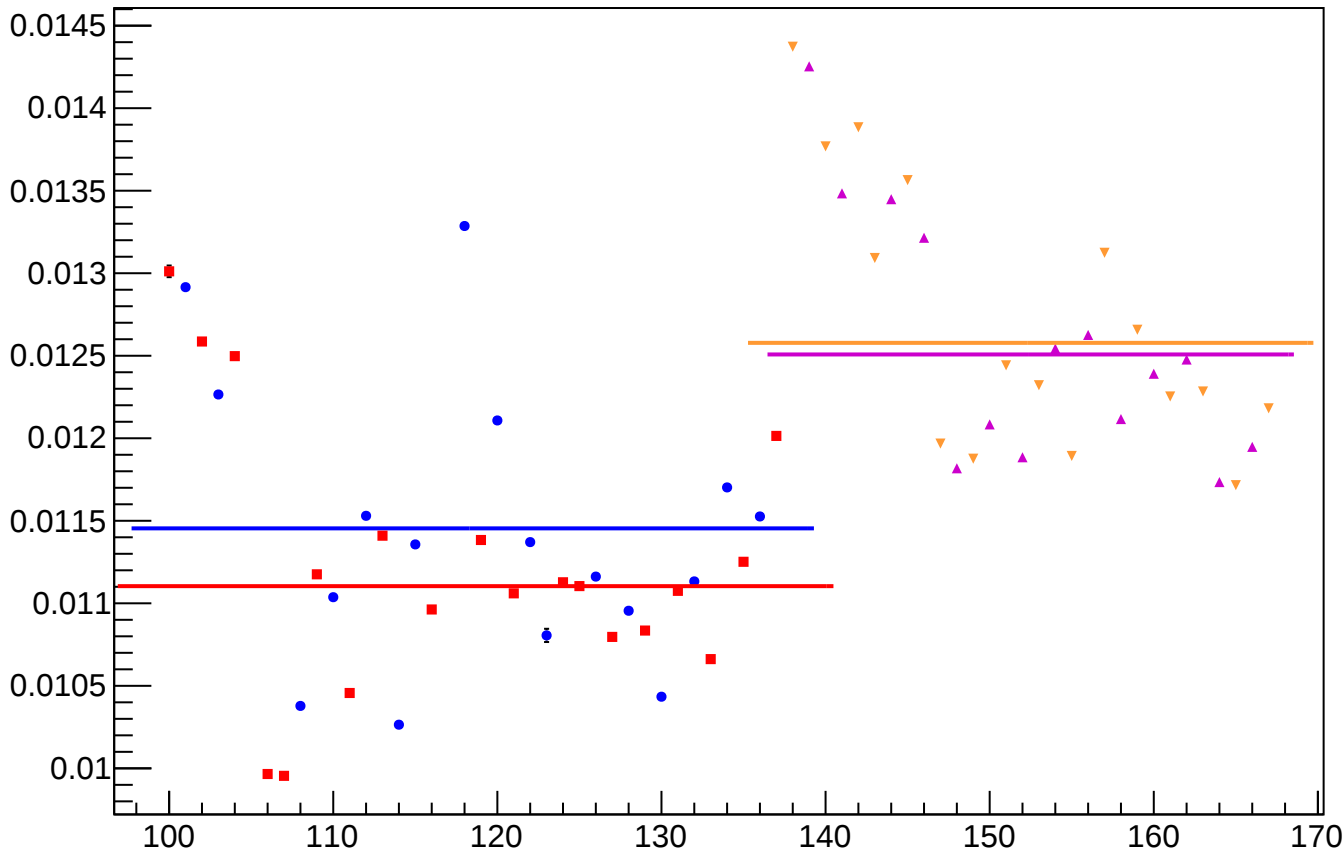
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.481+/-0.000 χ^2/NDF : 8733081408.0/30

Out: -0.524+/-0.000 χ^2/NDF : 10894373663.8/34

All: -0.504+/-0.000 χ^2/NDF : 19740233355.6/78

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 : 75962.0/15

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 : 137346.6/29

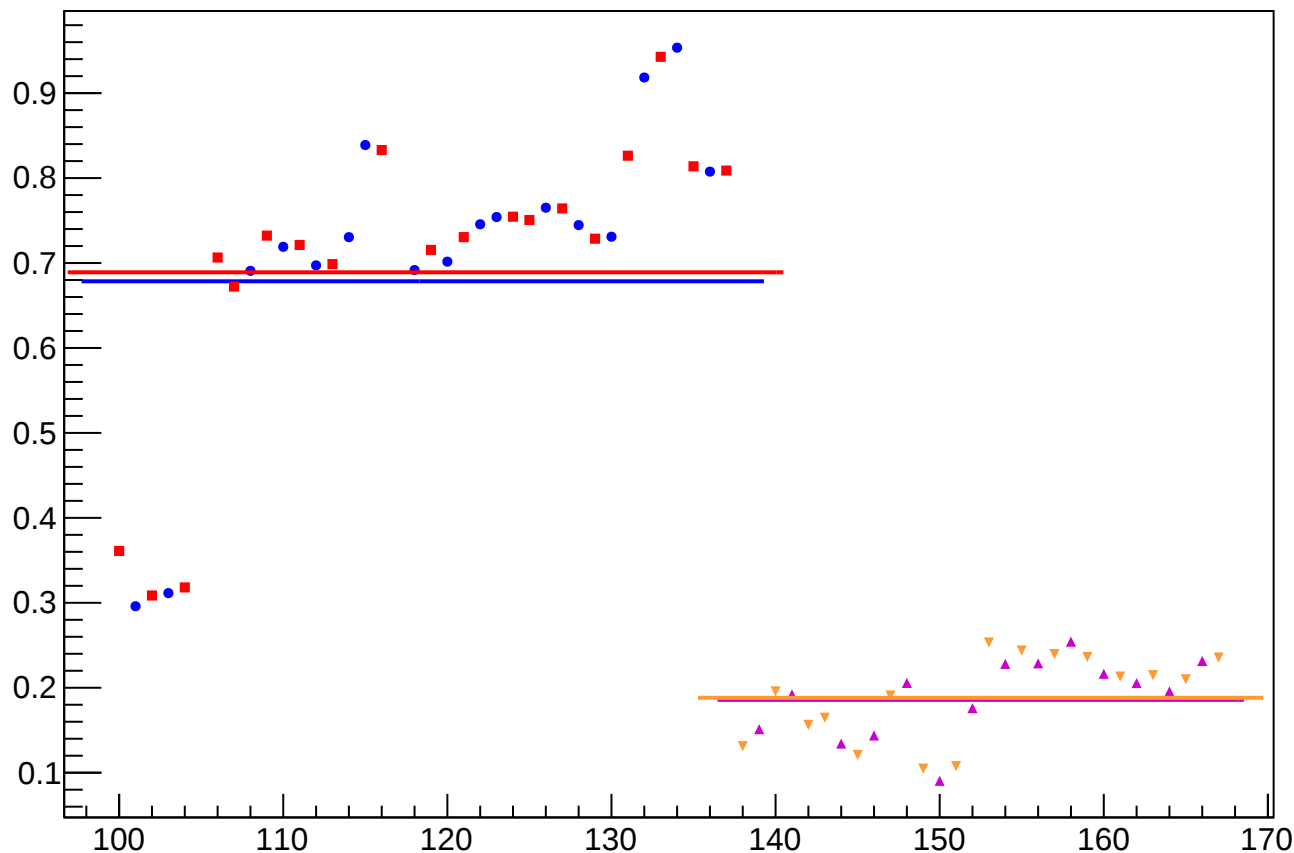
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 188390.1/30

Out: 0.012+/-0.000 χ^2/NDF : 268595.2/34

All: 0.012+/-0.000 χ^2/NDF : 459014.6/65

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.188 $\pm$ 0.000 χ^2/NDF : 5895175572.3/15

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: 0.187 $\pm$ 0.000 χ^2/NDF : 10293705189.0/29

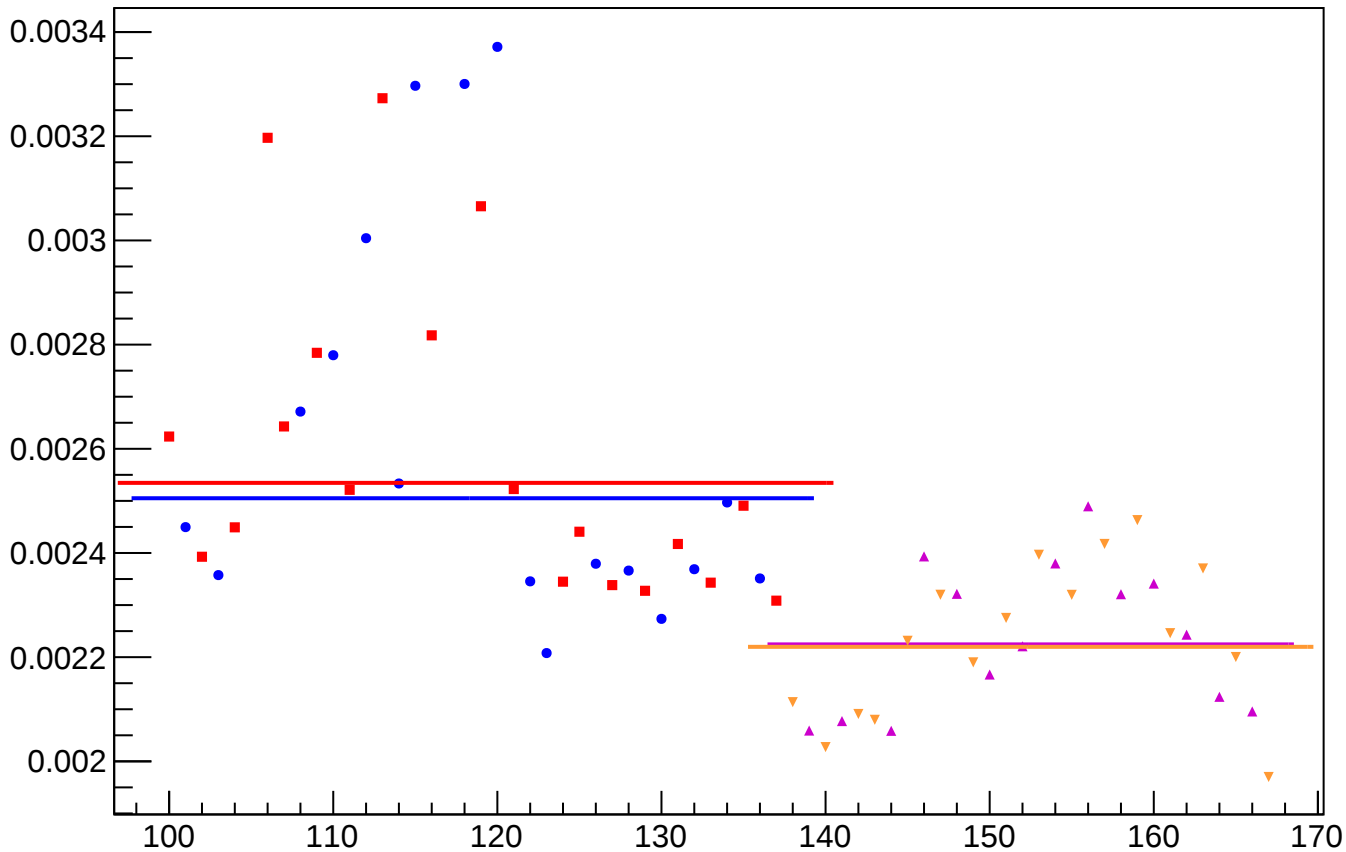
Right: 0.684 $\pm$ 0.000 χ^2/NDF : 73922739006.0/35

In: 0.343 $\pm$ 0.000 χ^2/NDF : 210654130848.4/30

Out: 0.341 $\pm$ 0.000 χ^2/NDF : 223032162011.0/34

All: 0.342 $\pm$ 0.000 χ^2/NDF : 433692803416.4

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 :100279.5/15

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 : 178778.8/29

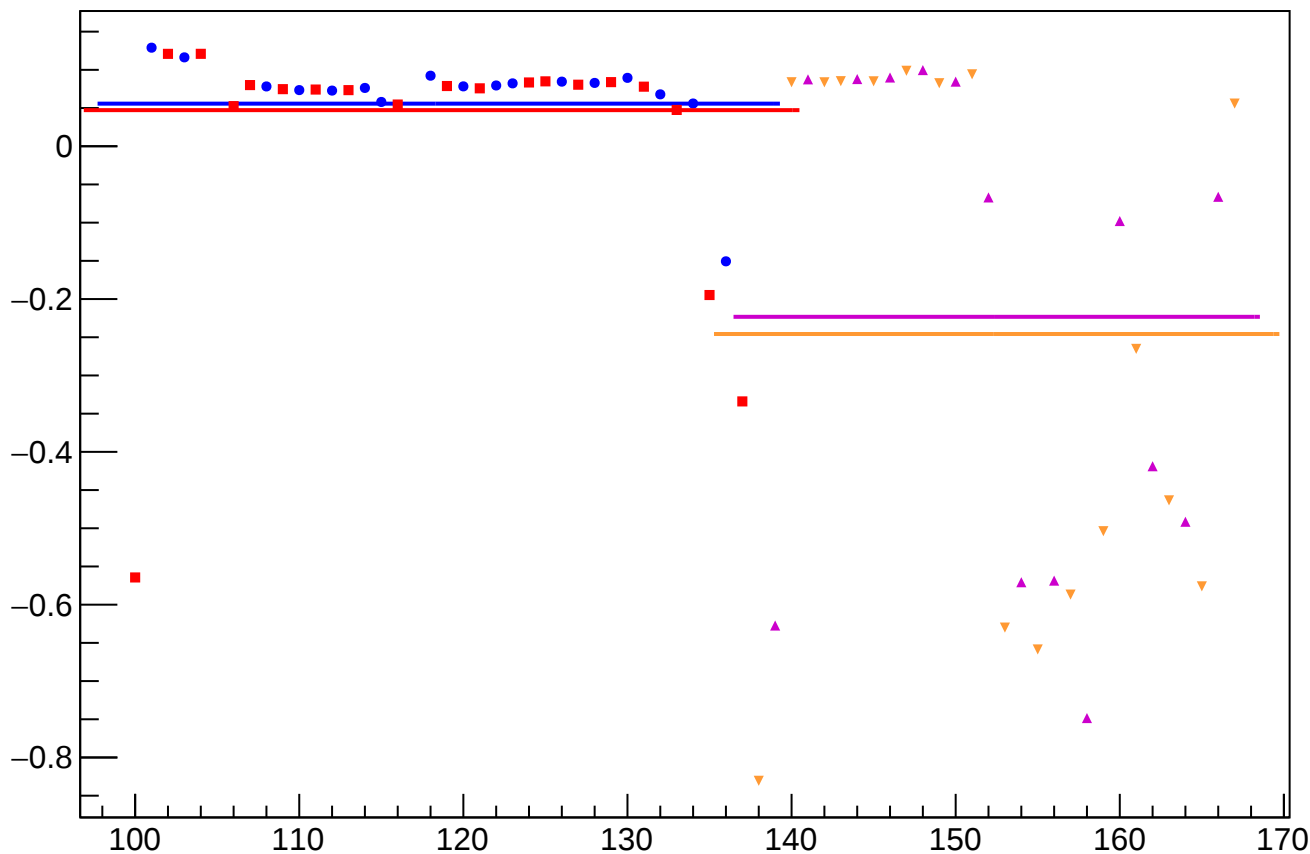
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :362754.3/30

Out: 0.002+/-0.000 χ^2/NDF :375478.7/34

All: 0.002+/-0.000 χ^2/NDF : 738243.8/65

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000 χ^2 /NDF: 423003688.1/16

Left Out: -0.246 $\pm$ 0.000 χ^2 /NDF: 9808958199.2/15

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: -0.235 $\pm$ 0.000 χ^2 /NDF: 17617153687.3/29

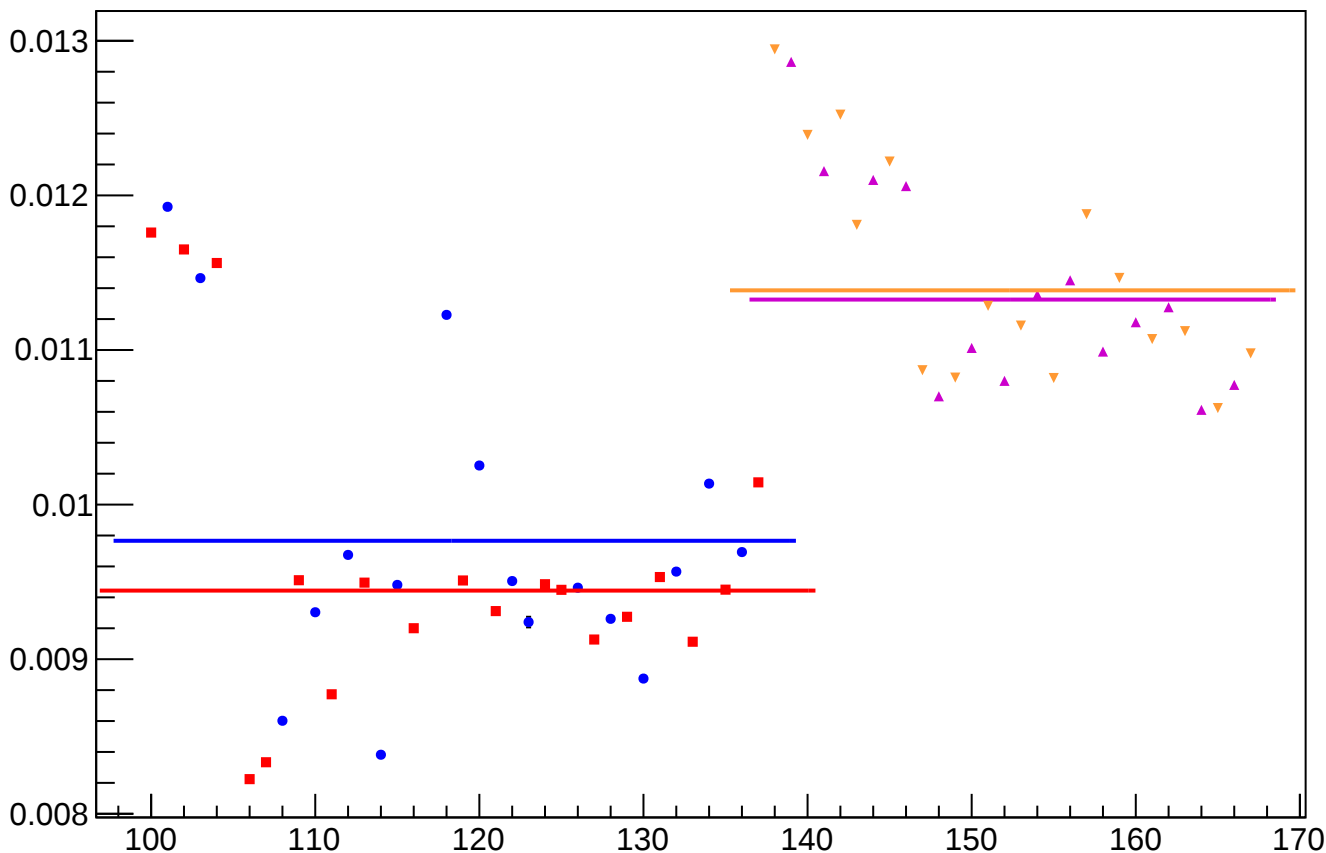
Right: 0.051 $\pm$ 0.000 χ^2 /NDF: 1245197626.4/35

In: -0.096 $\pm$ 0.000 χ^2 /NDF: 11065698513.0/30

Out: -0.108 $\pm$ 0.000 χ^2 /NDF: 14145236913.7/34

All: -0.102 $\pm$ 0.000 χ^2 /NDF: 25221964332.2/78

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 116638.3/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:69189.2/15

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 110693.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:58556.6/13

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 128044.2/29

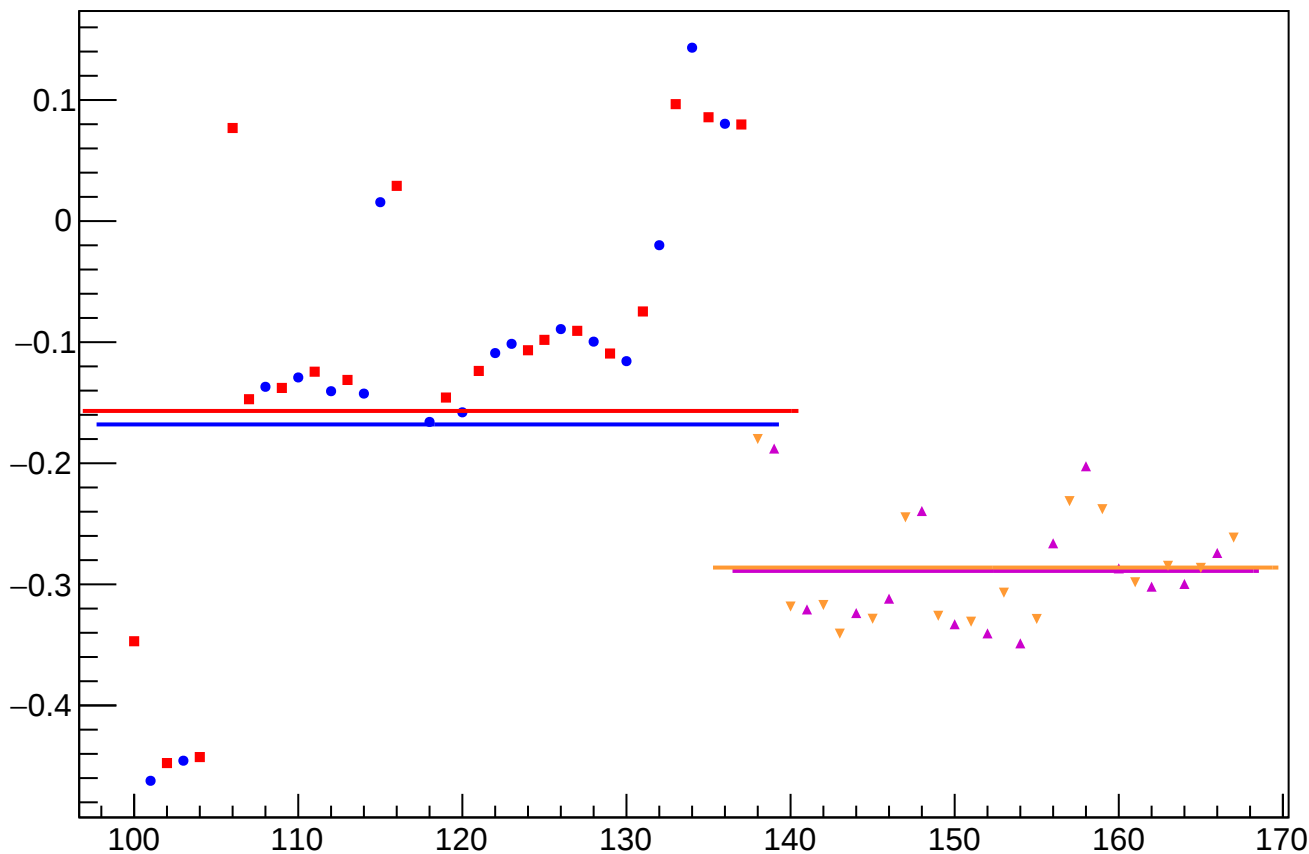
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 234814.0/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:353810.7/30

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:488904.7/34

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 845874.6/65

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.286+/-0.000 χ^2/NDF : 2766273185.2/15

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: -0.287+/-0.000 χ^2/NDF : 5851807220.9/29

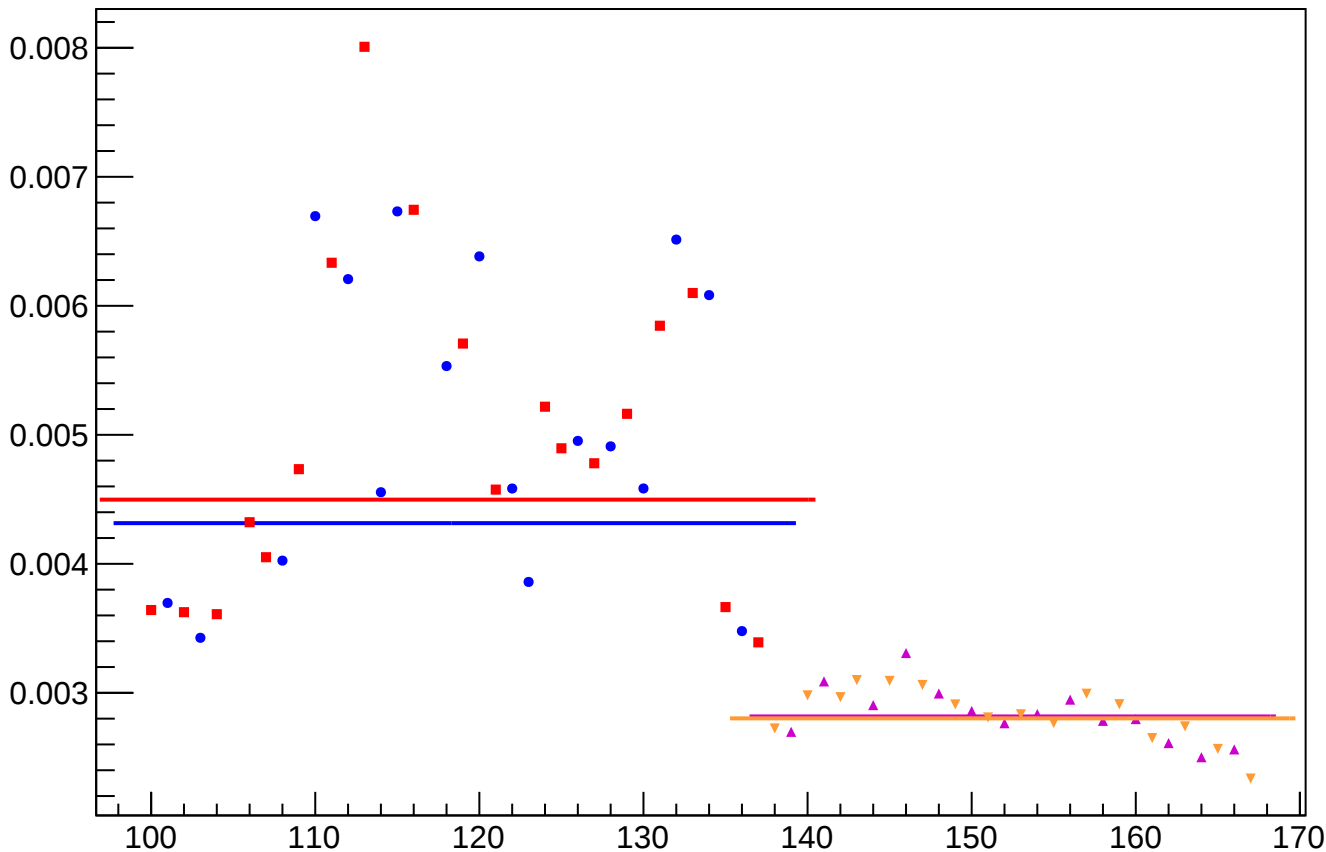
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.265+/-0.000 χ^2/NDF : 19092268090.2/30

Out: -0.263+/-0.000 χ^2/NDF : 18029987151.4/34

All: -0.264+/-0.000 χ^2/NDF : 37126137593.2/68

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 :131613.5/15

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 : 227189.5/29

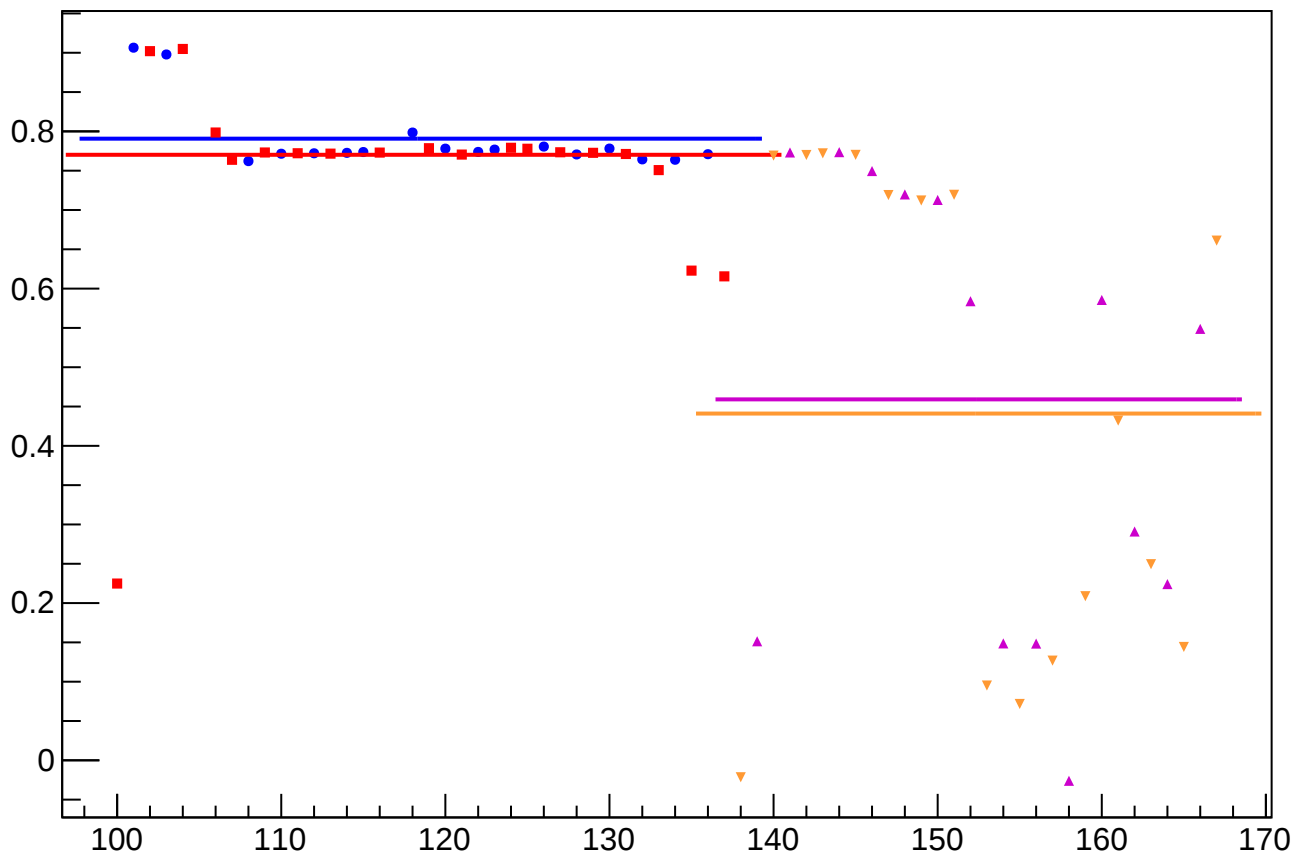
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :1844186.9/30

Out: 0.003+/-0.000 χ^2/NDF :2237542.9/34

All: 0.003+/-0.000 χ^2/NDF : 4081791.0/65

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.441+/-0.000 χ^2/NDF : 7992611471.8/15

Right Out: 0.770+/-0.000 χ^2/NDF : 375442189.7/18

Left In: 0.459+/-0.000 χ^2/NDF : 6539058797.6/13

Left: 0.450+/-0.000 χ^2/NDF : 14545998686.3/29

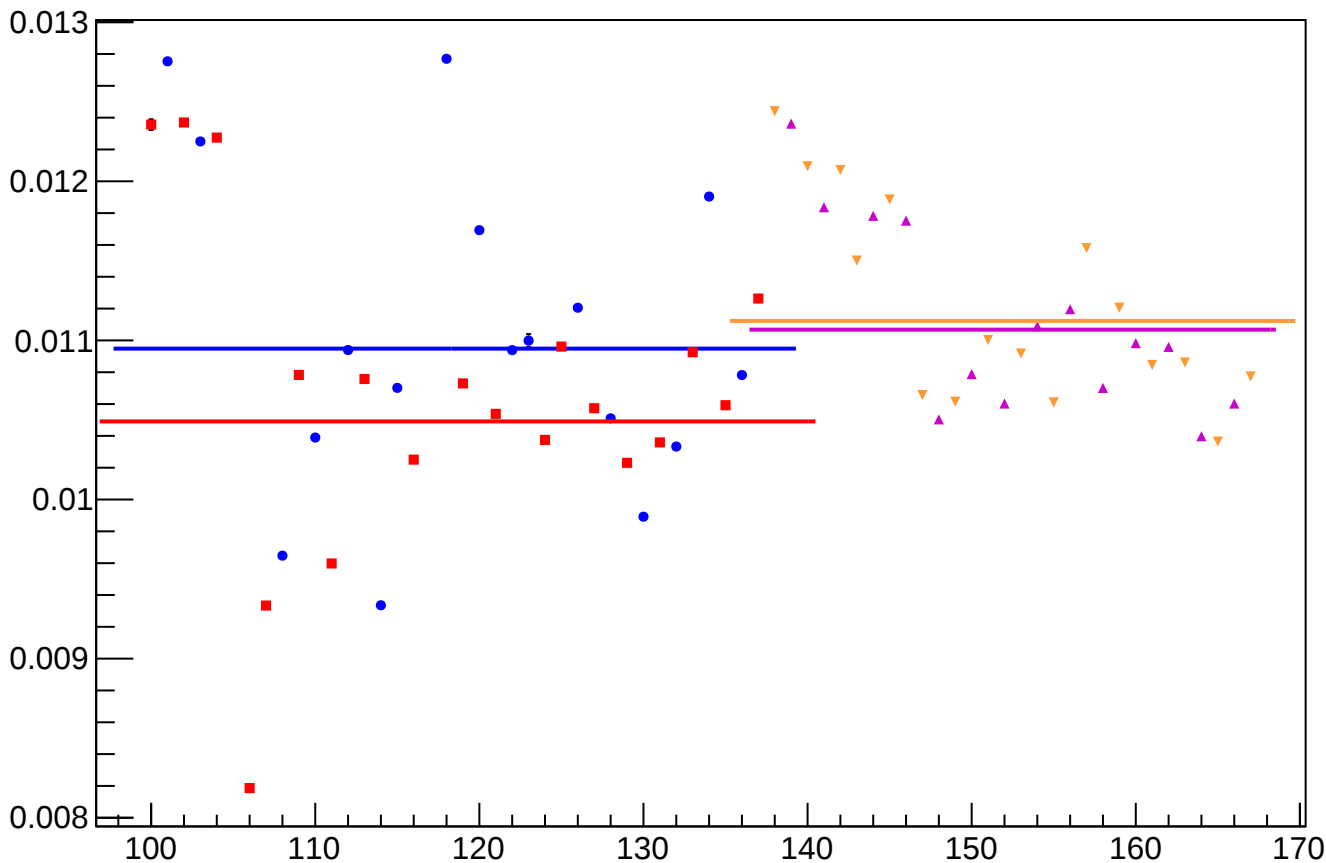
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.588+/-0.000 χ^2/NDF : 10262412087.3/30

Out: 0.575+/-0.000 χ^2/NDF : 12403705096.6/34

All: 0.581+/-0.000 χ^2/NDF : 22678864386.9/6

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 : 59807.3/15

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 : 110190.9/29

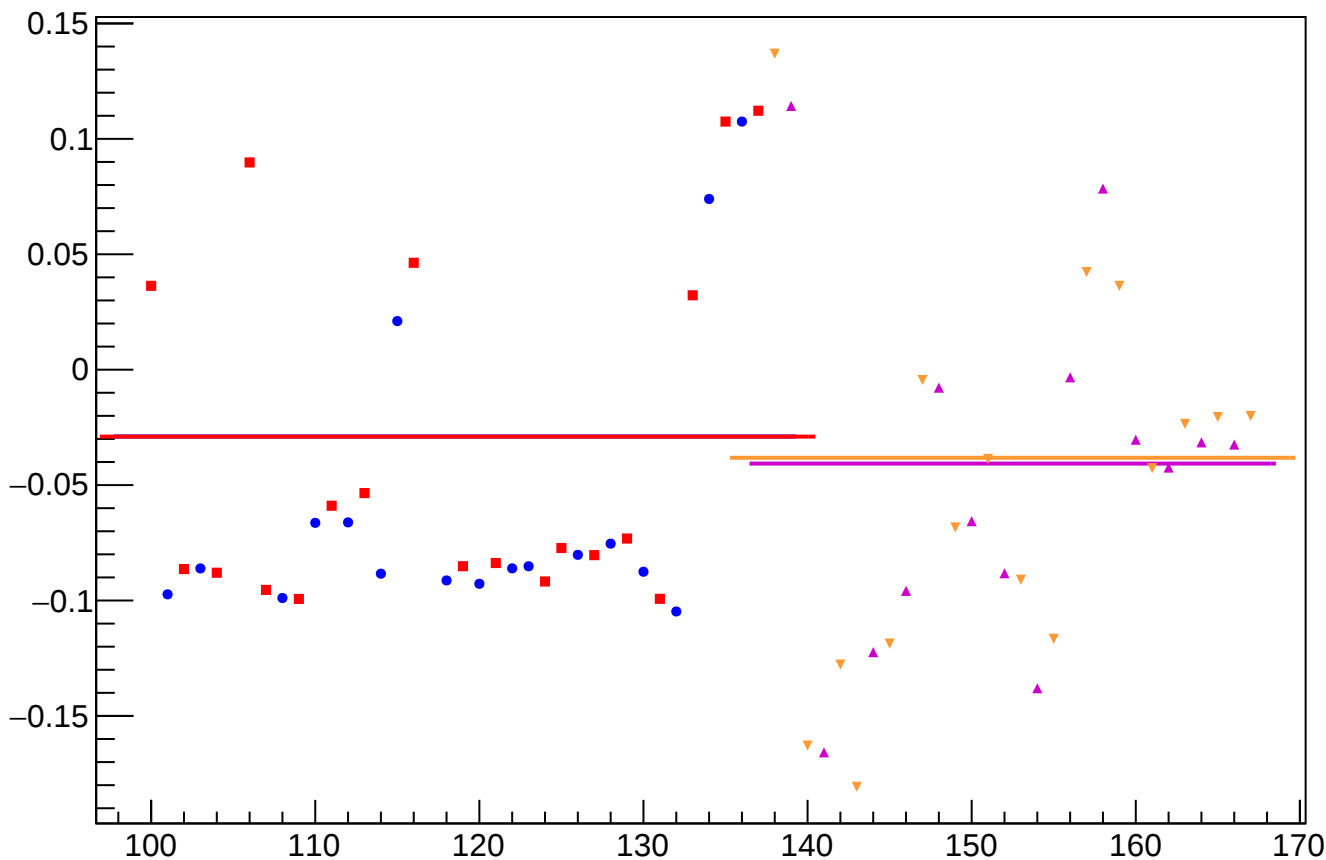
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 149607.8/30

Out: 0.011+/-0.000 χ^2/NDF : 208950.6/34

All: 0.011+/-0.000 χ^2/NDF : 362076.5/65

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.039+/-0.000

χ^2/NDF : 12562148572.1/29

Left Out: -0.038+/-0.000

χ^2/NDF : 6720996060.9/15

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: -0.036+/-0.000

χ^2/NDF : 8854113575.7/34

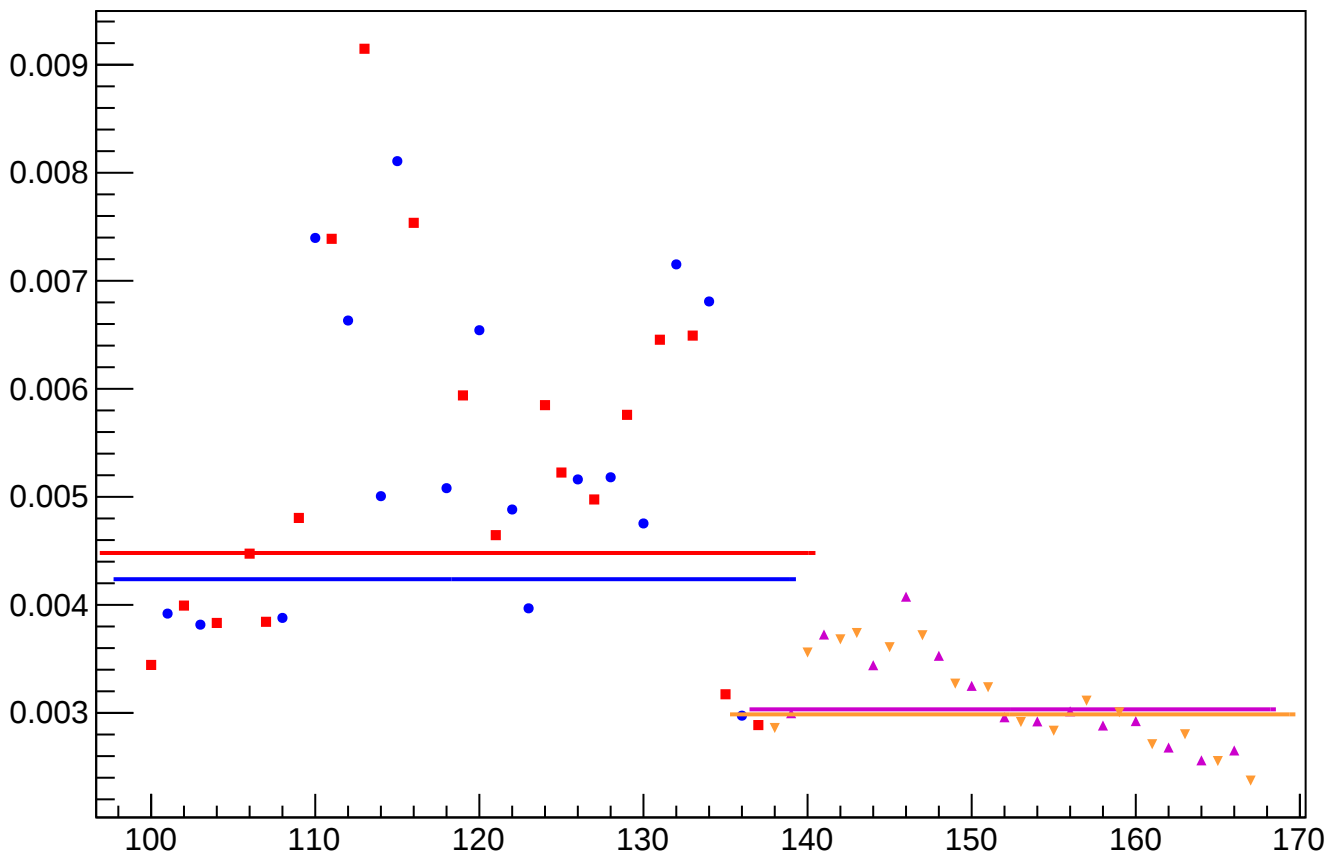
Left In: -0.041+/-0.000

χ^2/NDF : 5837501751.5/13

All: -0.037+/-0.000

χ^2/NDF : 17172497511.6/...

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 :394888.8/15

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 : 691457.1/29

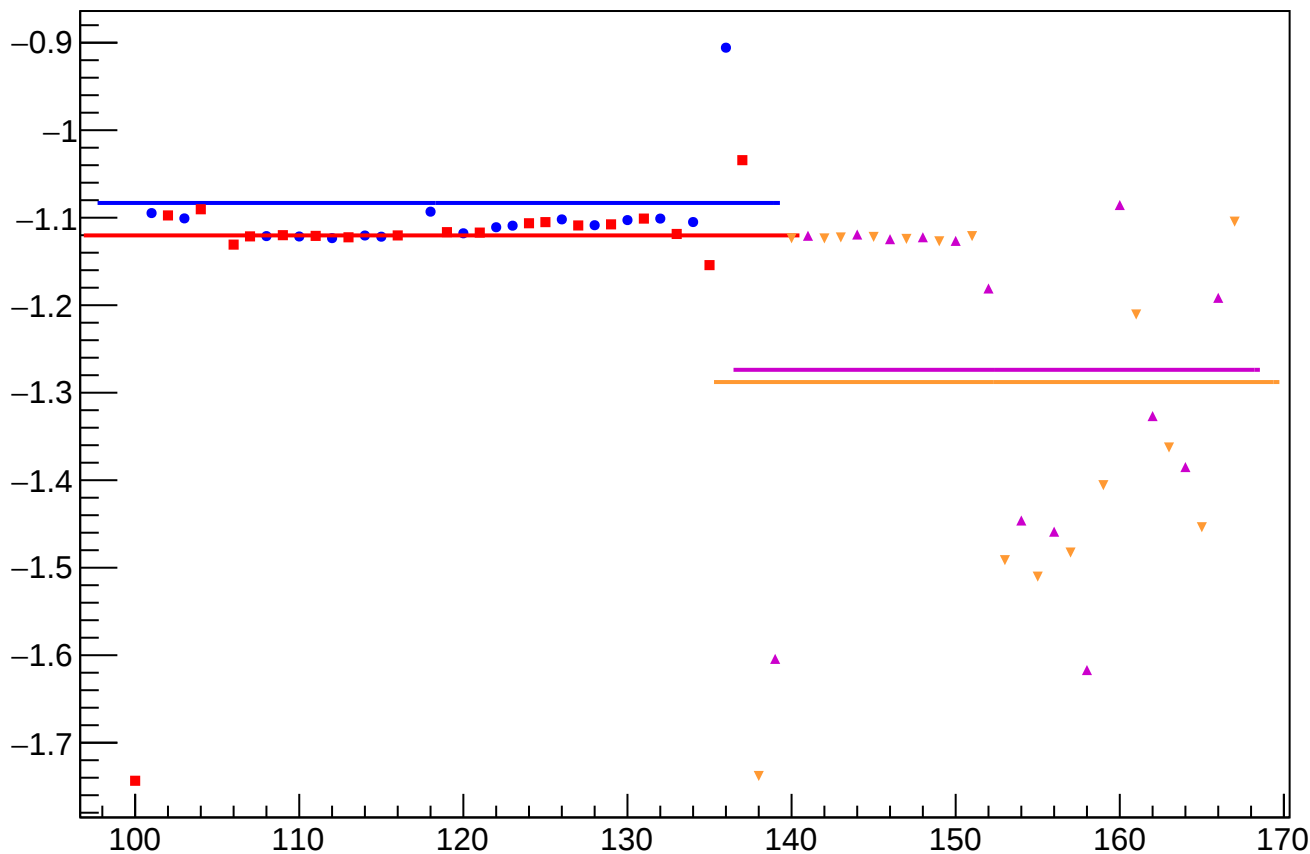
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF :1866002.4/30

Out: 0.003+/-0.000 χ^2/NDF :2428711.2/34

All: 0.003+/-0.000 χ^2/NDF : 4295509.9/65

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.288+/-0.000 χ^2/NDF : 4044599395.3/15

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: -1.281+/-0.000 χ^2/NDF : 7529157204.9/29

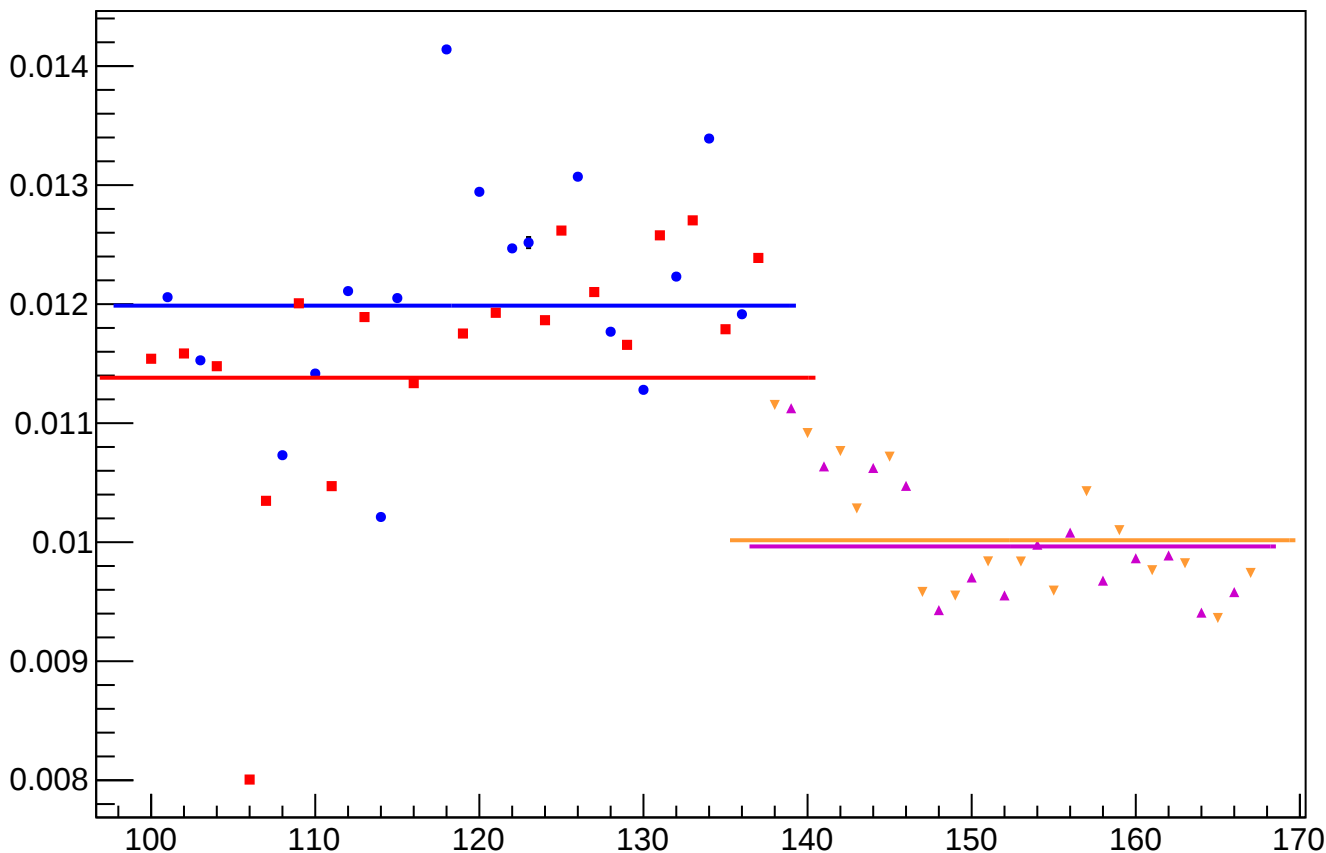
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.217+/-0.000 χ^2/NDF : 4818775490.0/30

Out: -1.235+/-0.000 χ^2/NDF : 5278497360.4/34

All: -1.226+/-0.000 χ^2/NDF : 10122333435.3/68

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 60402.0/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 57078.7/15

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 47605.3/13

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 104979.4/29

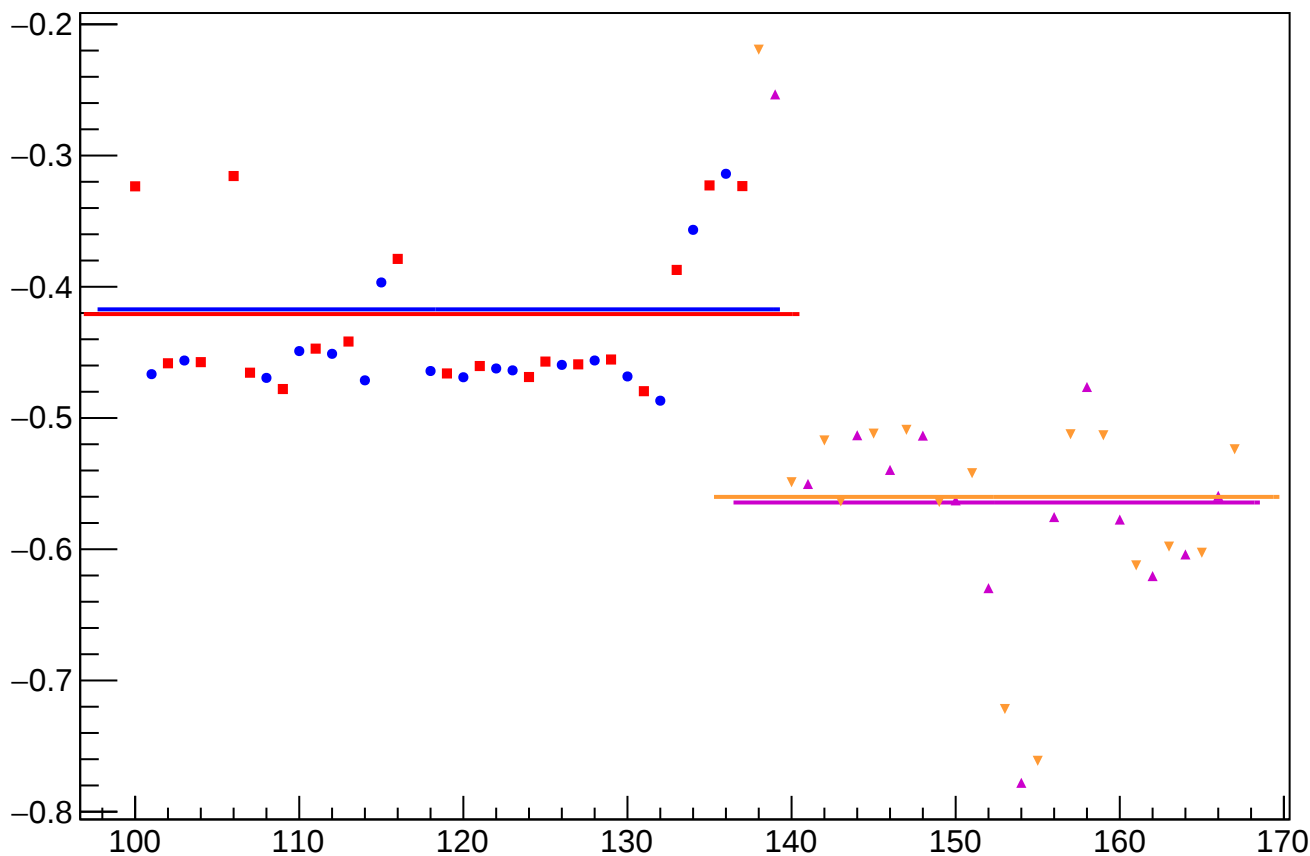
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 365029.0/30

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 346153.7/34

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 713441.9/65

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417 ± 0.000 $\chi^2/\text{NDF}: 2039045143.8/16$

Left Out: -0.560 ± 0.000 $\chi^2/\text{NDF}: 13235775033.6/15$

Right Out: -0.421 ± 0.000 $\chi^2/\text{NDF}: 1646463410.7/18$

Left In: -0.564 ± 0.000 $\chi^2/\text{NDF}: 10406950761.5/13$

Left: -0.562 ± 0.000 $\chi^2/\text{NDF}: 23651238985.2/29$

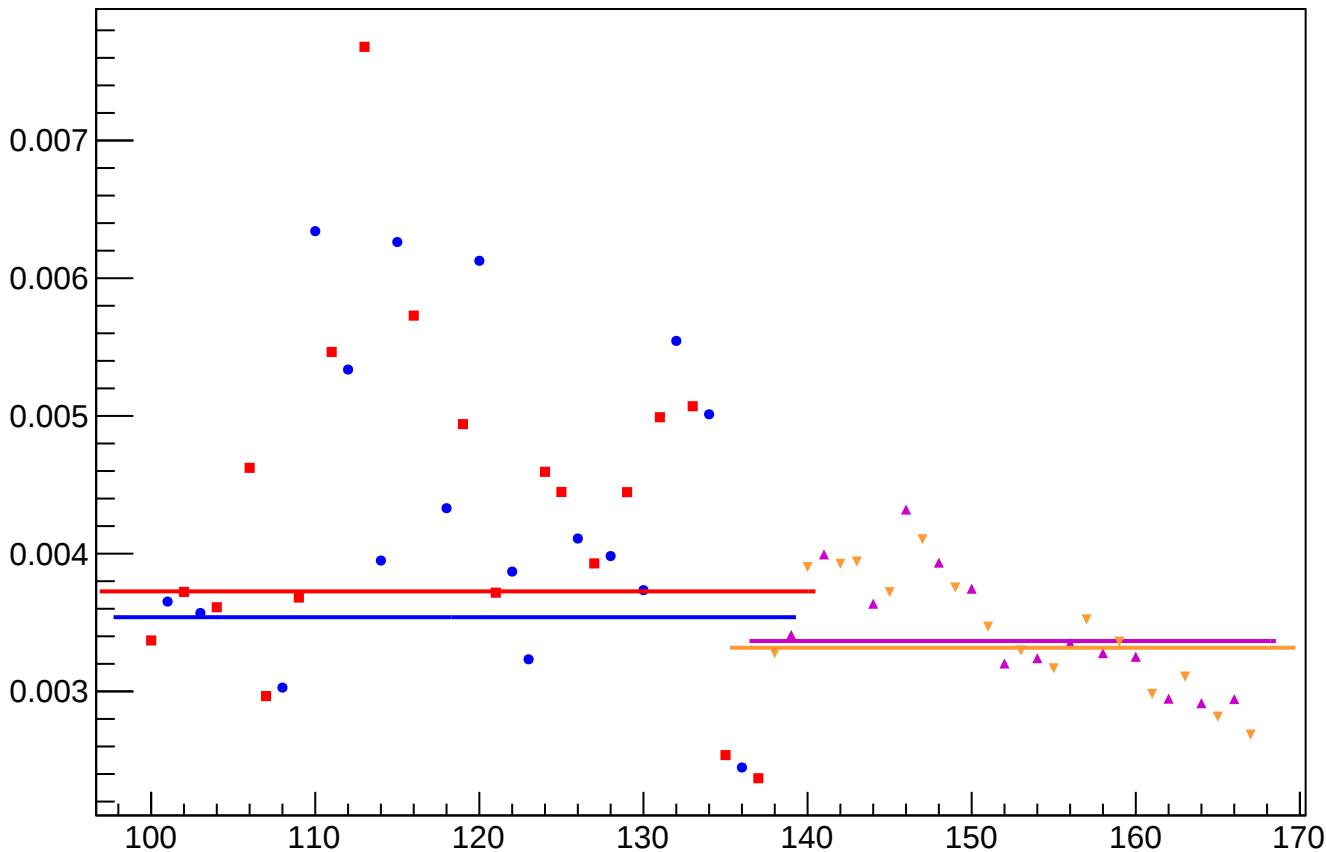
Right: -0.419 ± 0.000 $\chi^2/\text{NDF}: 3688293301.3/35$

In: -0.516 ± 0.000 $\chi^2/\text{NDF}: 18745750902.6/30$

Out: -0.519 ± 0.000 $\chi^2/\text{NDF}: 20626074541.9/34$

All: -0.517 ± 0.000 $\chi^2/\text{NDF}: 39377233089.5/70$

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 : 327124.4/15

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 : 575675.0/29

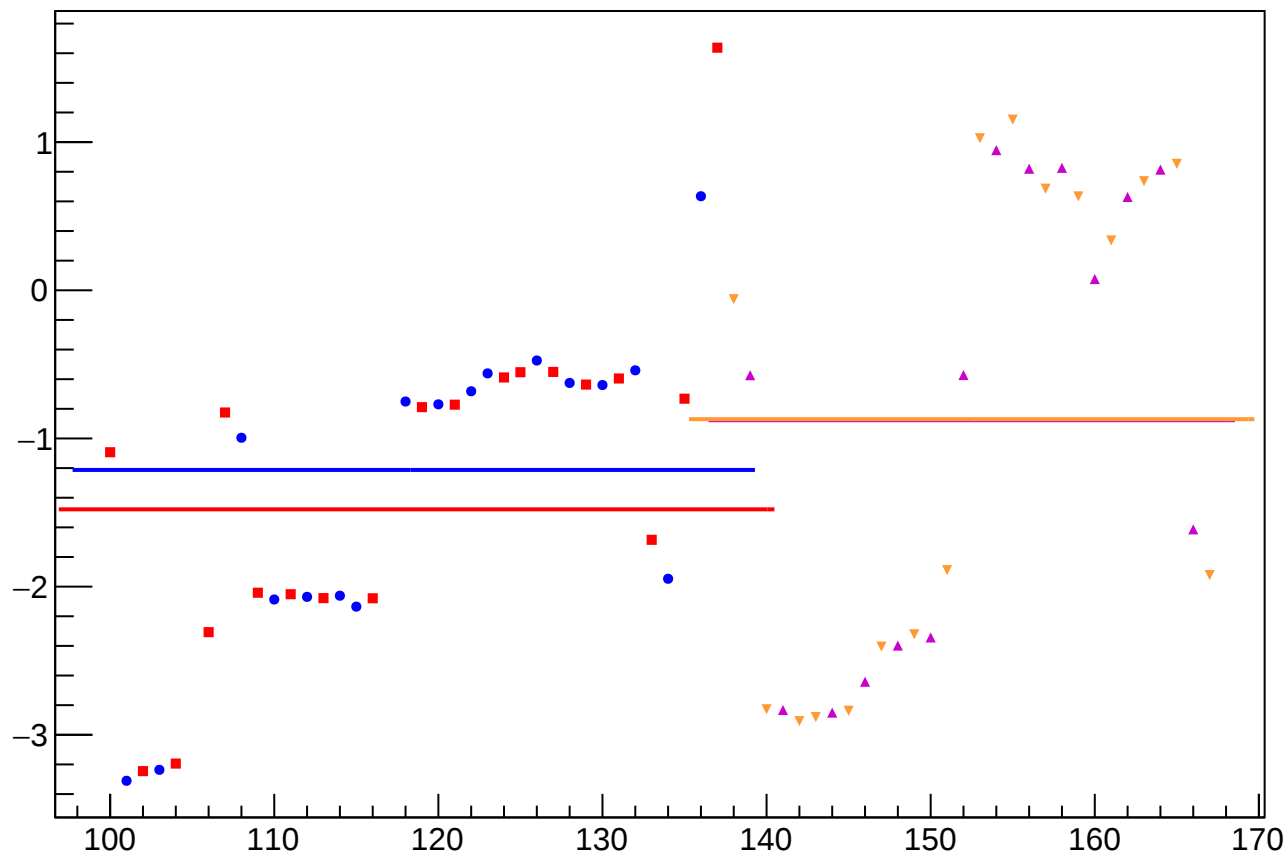
Right: 0.004 ± 0.000 χ^2/NDF : 1749655.8/35

In: 0.003 ± 0.000 χ^2/NDF : 1099846.1/30

Out: 0.003 ± 0.000 χ^2/NDF : 1324743.3/34

All: 0.003 ± 0.000 χ^2/NDF : 2424941.6/65

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2 /NDF: 1992853443.9/16

Left Out: -0.870 $\pm$ 0.000 χ^2 /NDF: 5279145426.7/15

Right Out: -1.478 $\pm$ 0.000 χ^2 /NDF: 1578264383.8/18

Left In: -0.877 $\pm$ 0.000 χ^2 /NDF: 4250887926.5/13

Left: -0.873 $\pm$ 0.000 χ^2 /NDF: 9530080730.5/29

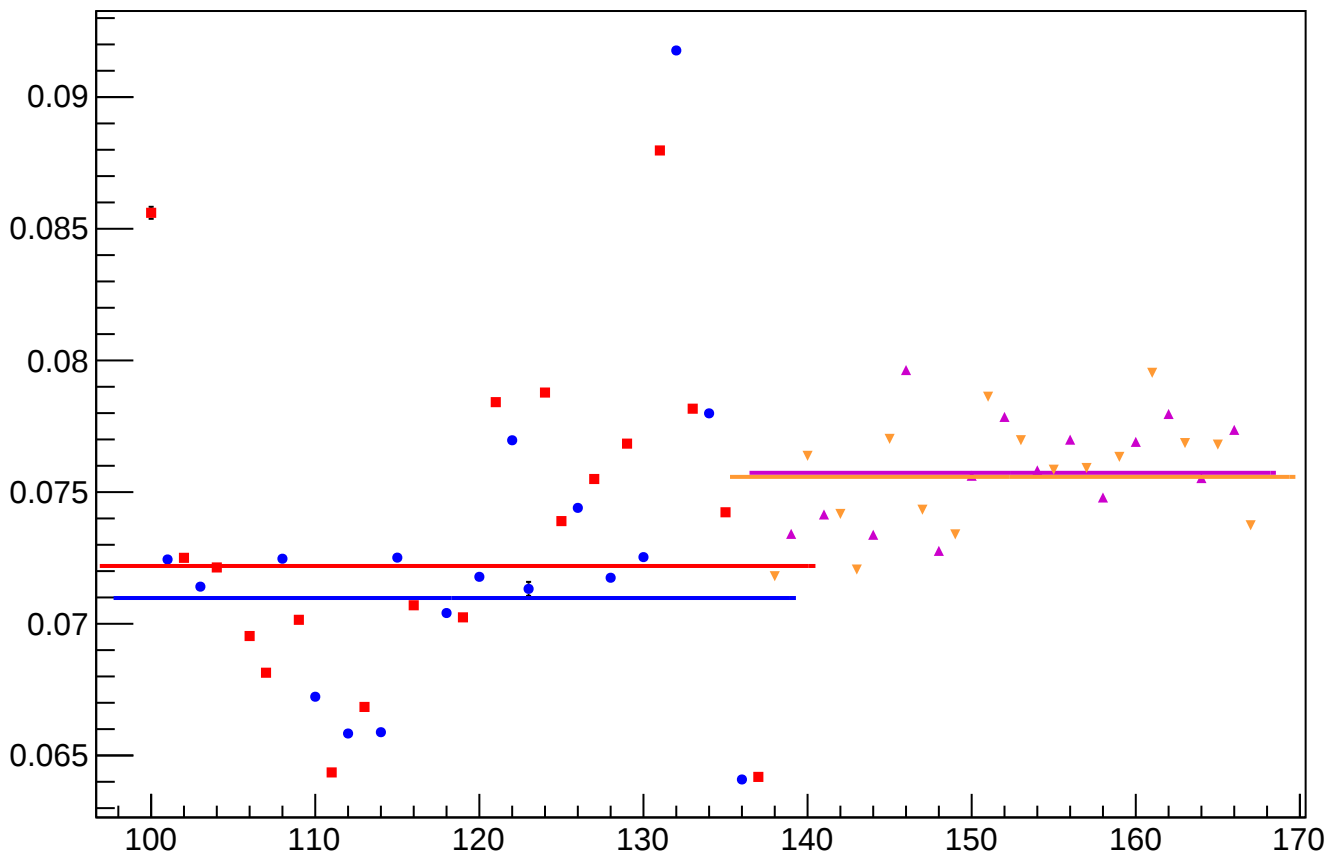
Right: -1.347 $\pm$ 0.000 χ^2 /NDF: 3617796481.7/35

In: -1.016 $\pm$ 0.000 χ^2 /NDF: 6329860152.4/30

Out: -1.110 $\pm$ 0.000 χ^2 /NDF: 7156420337.2/34

All: -1.065 $\pm$ 0.000 χ^2 /NDF: 13500894546.1/78

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071 $\pm$ 0.000 χ^2/NDF : 77589.5/16

Left Out: 0.076 $\pm$ 0.000 χ^2/NDF : 18555.8/15

Right Out: 0.072 $\pm$ 0.000 χ^2/NDF : 73228.9/18

Left In: 0.076 $\pm$ 0.000 χ^2/NDF : 13948.0/13

Left: 0.076 $\pm$ 0.000 χ^2/NDF : 32550.3/29

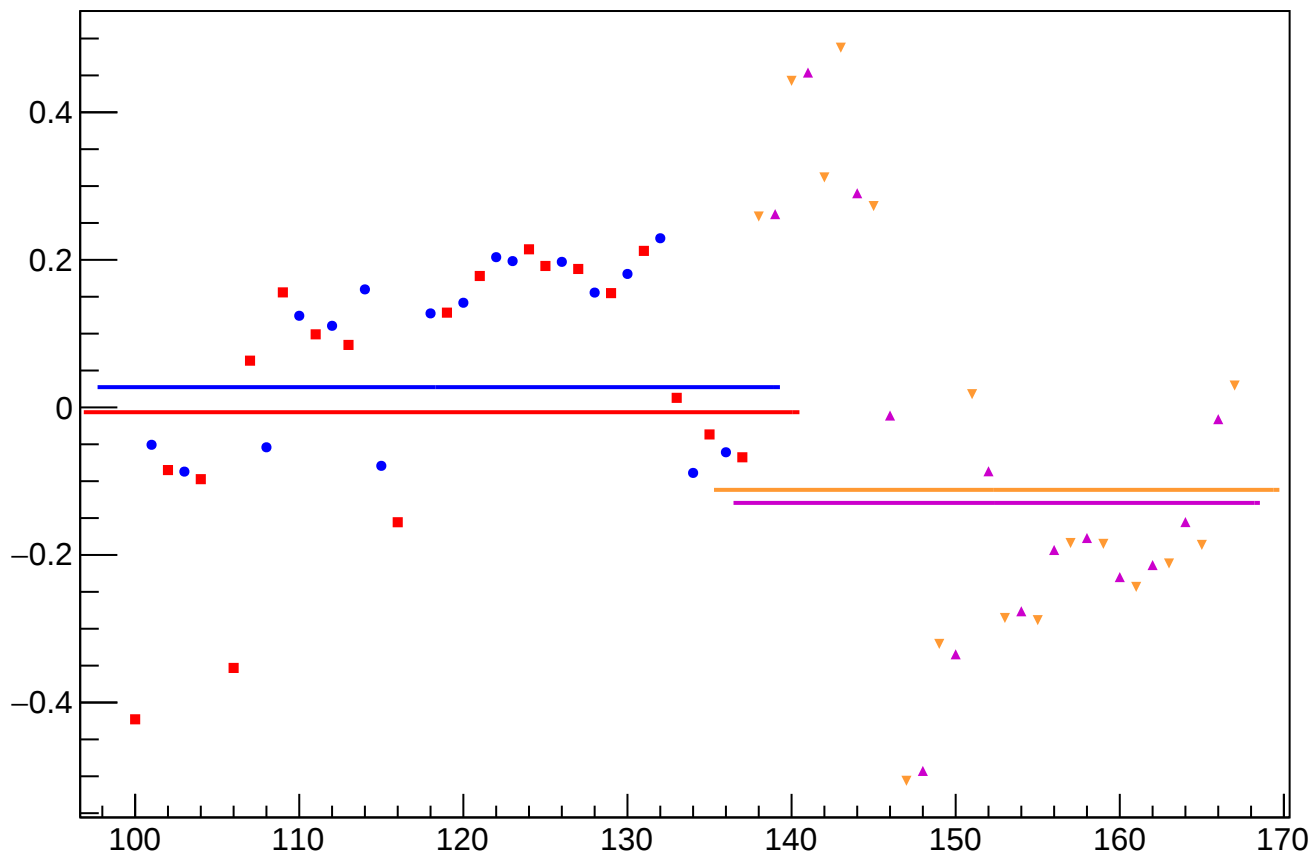
Right: 0.072 $\pm$ 0.000 χ^2/NDF : 152771.2/35

In: 0.074 $\pm$ 0.000 χ^2/NDF : 126128.4/30

Out: 0.074 $\pm$ 0.000 χ^2/NDF : 110274.0/34

All: 0.074 $\pm$ 0.000 χ^2/NDF : 237138.2/65

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 562337631.4/16

Left Out: -0.112+/-0.000 χ^2/NDF : 14286190514.4/15

Right Out: -0.007+/-0.000 χ^2/NDF : 1199278894.0/18

Left In: -0.129+/-0.000 χ^2/NDF : 10387194593.3/13

Left: -0.120+/-0.000 χ^2/NDF : 24711832594.9/29

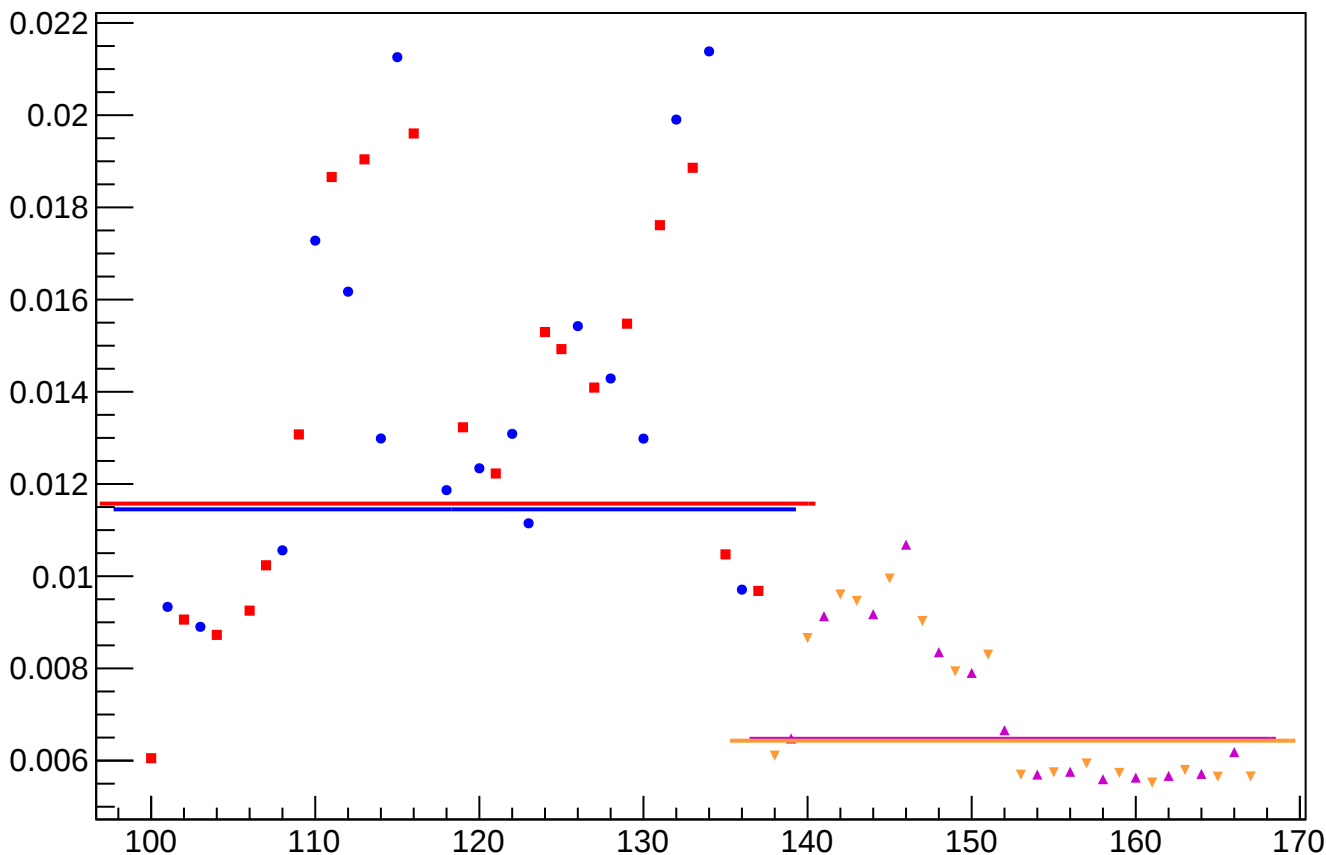
Right: 0.010+/-0.000 χ^2/NDF : 1787030042.0/35

In: -0.105+/-0.000 χ^2/NDF : 11858341394.6/30

Out: -0.096+/-0.000 χ^2/NDF : 15904496971.4/34

All: -0.100+/-0.000 χ^2/NDF : 27772802910.7/71

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2/NDF : 679628.0/16

Left Out: 0.006 $\pm$ 0.000 χ^2/NDF : 905287.3/15

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 : 1686005.6/29

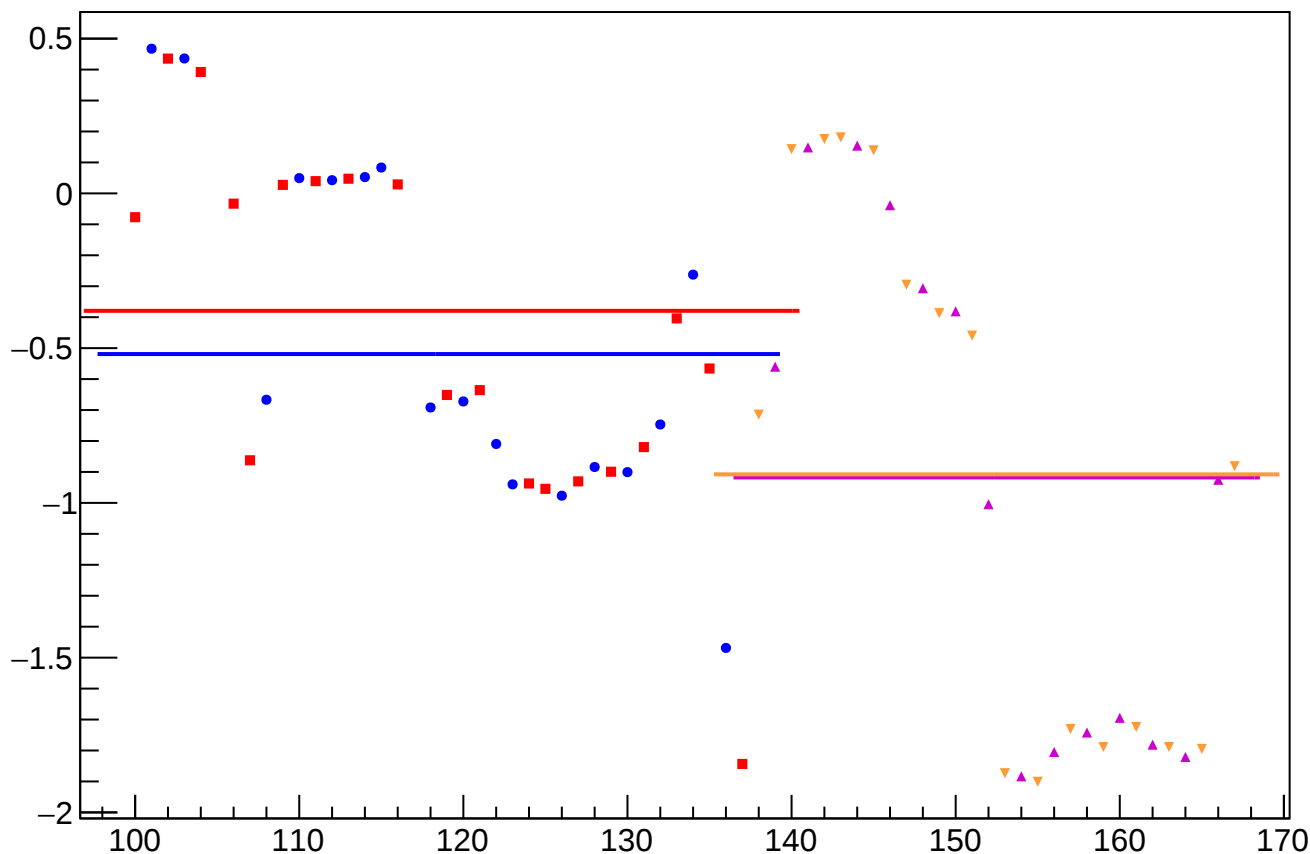
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 1677468.5/35

In: 0.007 $\pm$ 0.000 χ^2/NDF : 3289294.5/30

Out: 0.007 $\pm$ 0.000 χ^2/NDF : 3902934.3/34

All: 0.007 $\pm$ 0.000 χ^2/NDF : 7193884.2/65

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519+/-0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.908+/-0.000 χ^2/NDF :1010877127.6/15

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: -0.913+/-0.000 χ^2/NDF : 1866471328.5/29

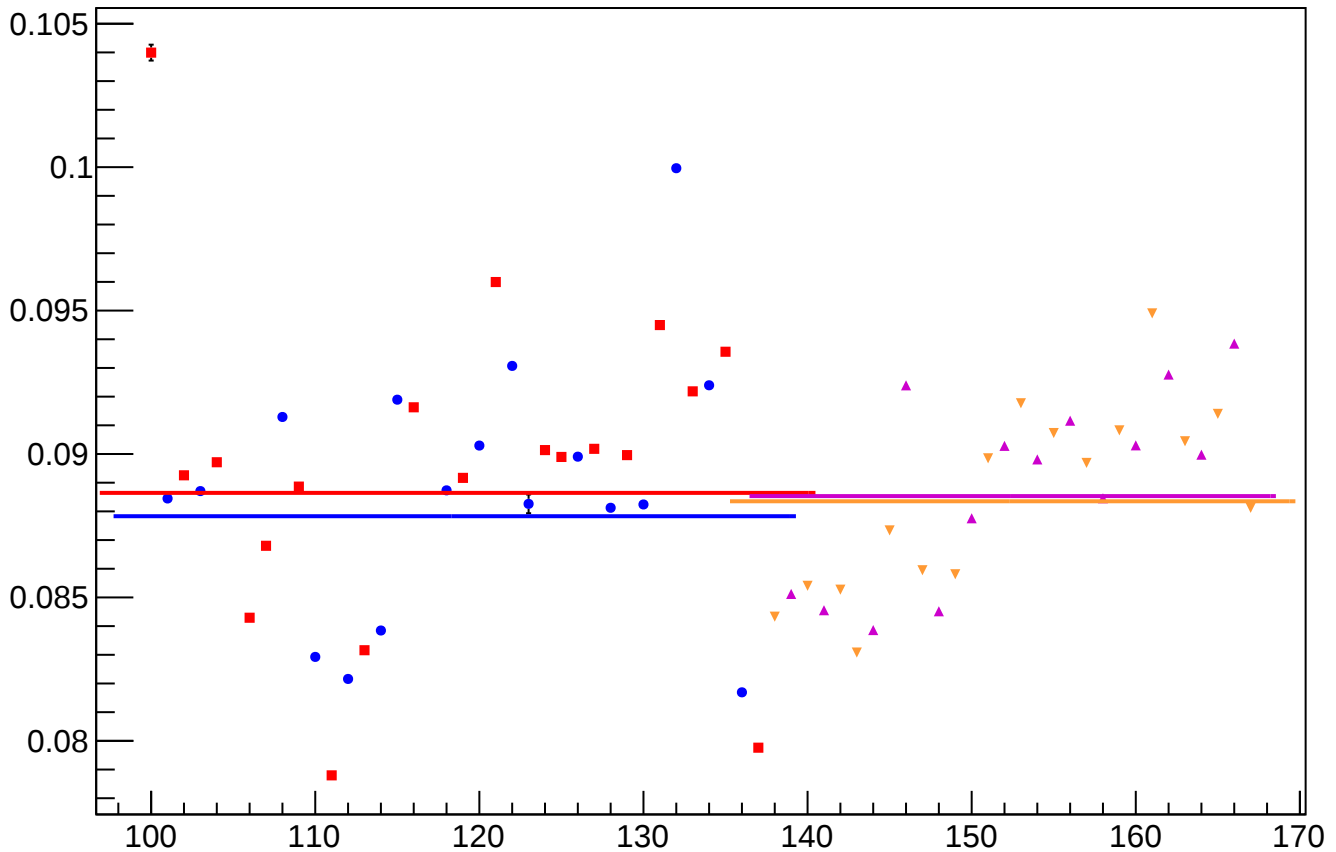
Right: -0.448+/-0.000 χ^2/NDF : 616632603.2/35

In: -0.764+/-0.000 χ^2/NDF :1279365950.0/30

Out: -0.710+/-0.000 χ^2/NDF :1437365702.6/34

All: -0.736+/-0.000 χ^2/NDF : 2720006666.4/6

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 :29373.2/15

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 : 56927.3/29

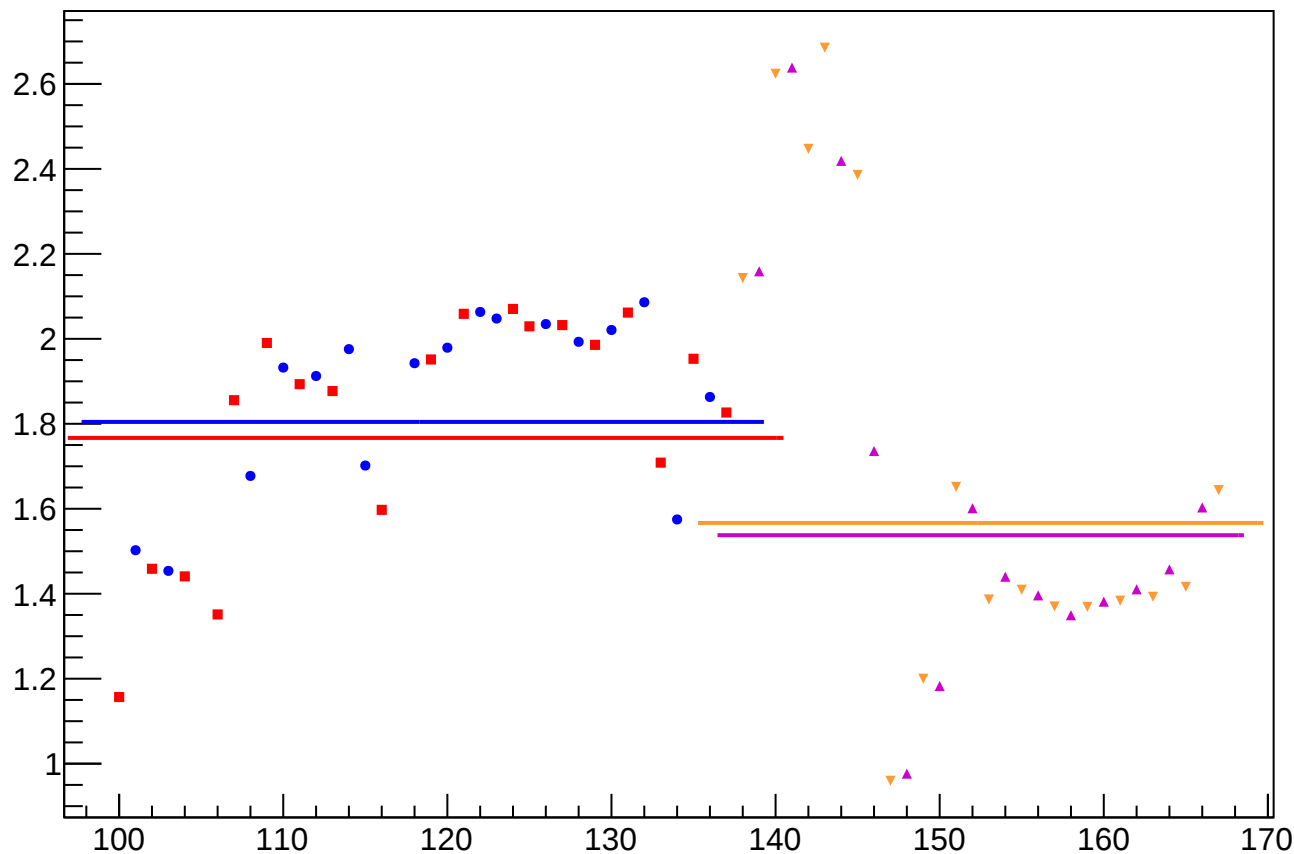
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF :62984.2/30

Out: 0.088+/-0.000 χ^2/NDF :69193.0/34

All: 0.088+/-0.000 χ^2/NDF : 132270.4/65

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.567 $\pm$ 0.000 χ^2 /NDF:23318840021.0/15

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1709259284.5/18

Left In: 1.538 $\pm$ 0.000 χ^2 /NDF:17900105005.3/13

Left: 1.553 $\pm$ 0.000 χ^2 /NDF: 41275791417.7/29

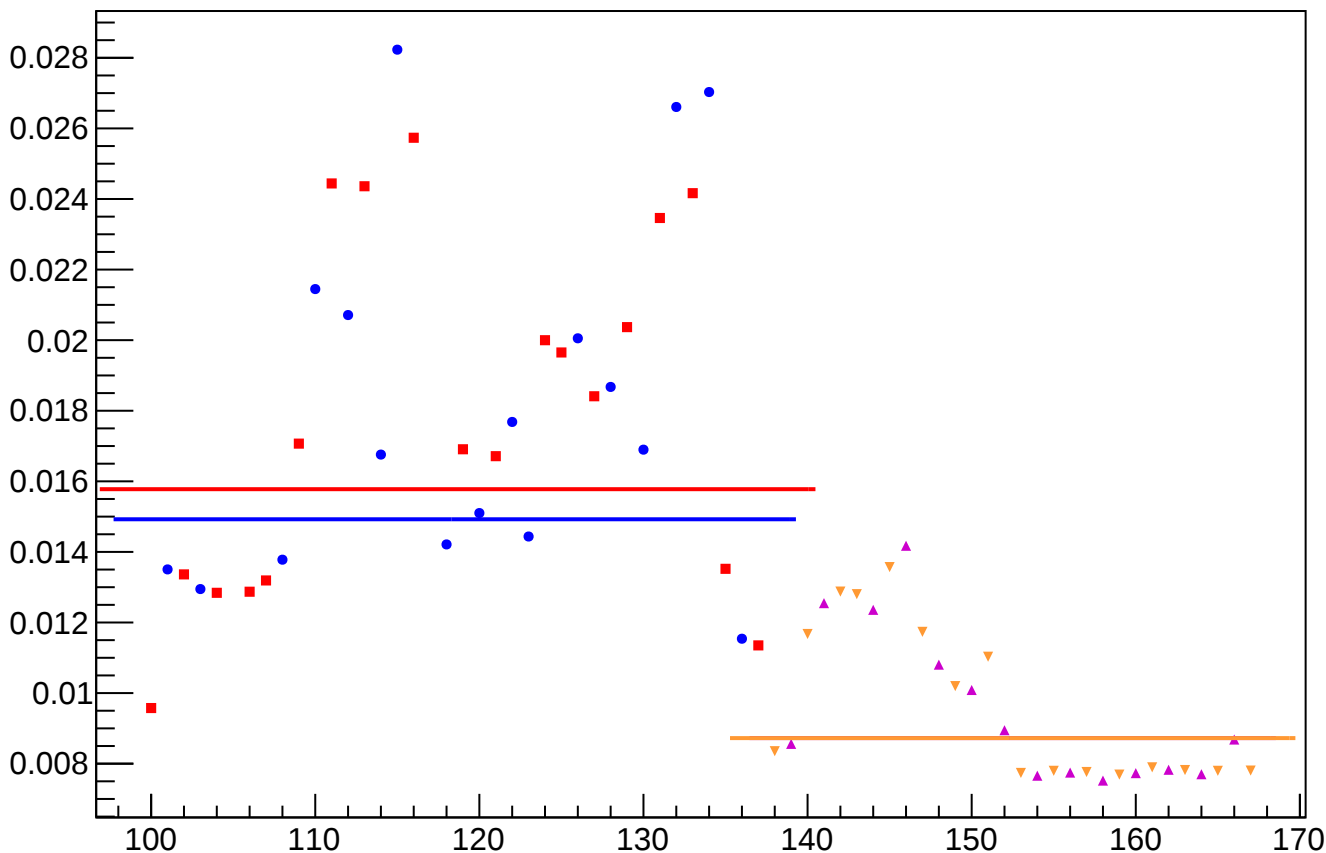
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.582 $\pm$ 0.000 χ^2 /NDF:20590058285.7/30

Out: 1.596 $\pm$ 0.000 χ^2 /NDF:25858536041.7/34

All: 1.589 $\pm$ 0.000 χ^2 /NDF: 46463951691.4/6

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 : 827989.9/15

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 : 1551924.8/29

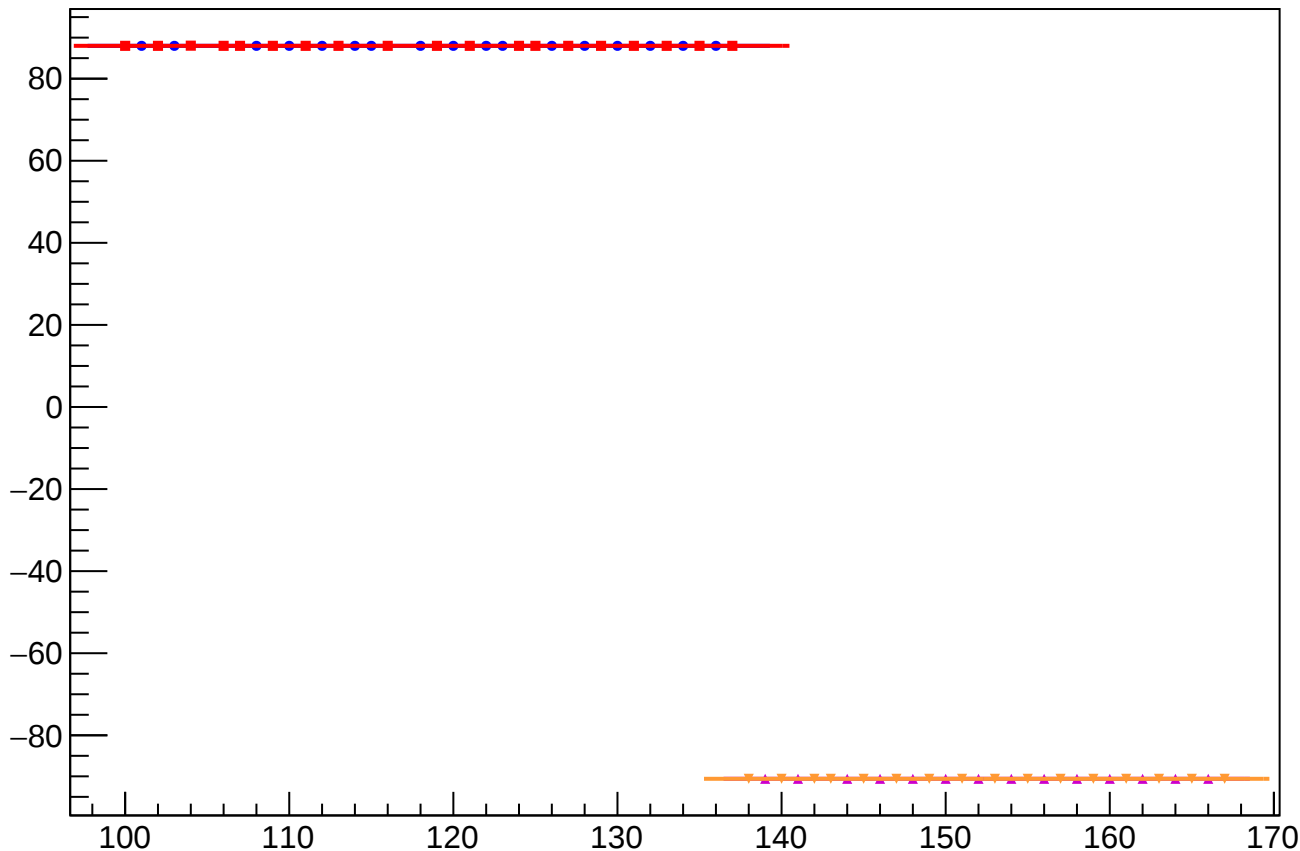
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3024970.3/30

Out: 0.010+/-0.000 χ^2/NDF : 3676617.0/34

All: 0.010+/-0.000 χ^2/NDF : 6701589.9/65

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: 5372837.0/15

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: 10192537.3/29

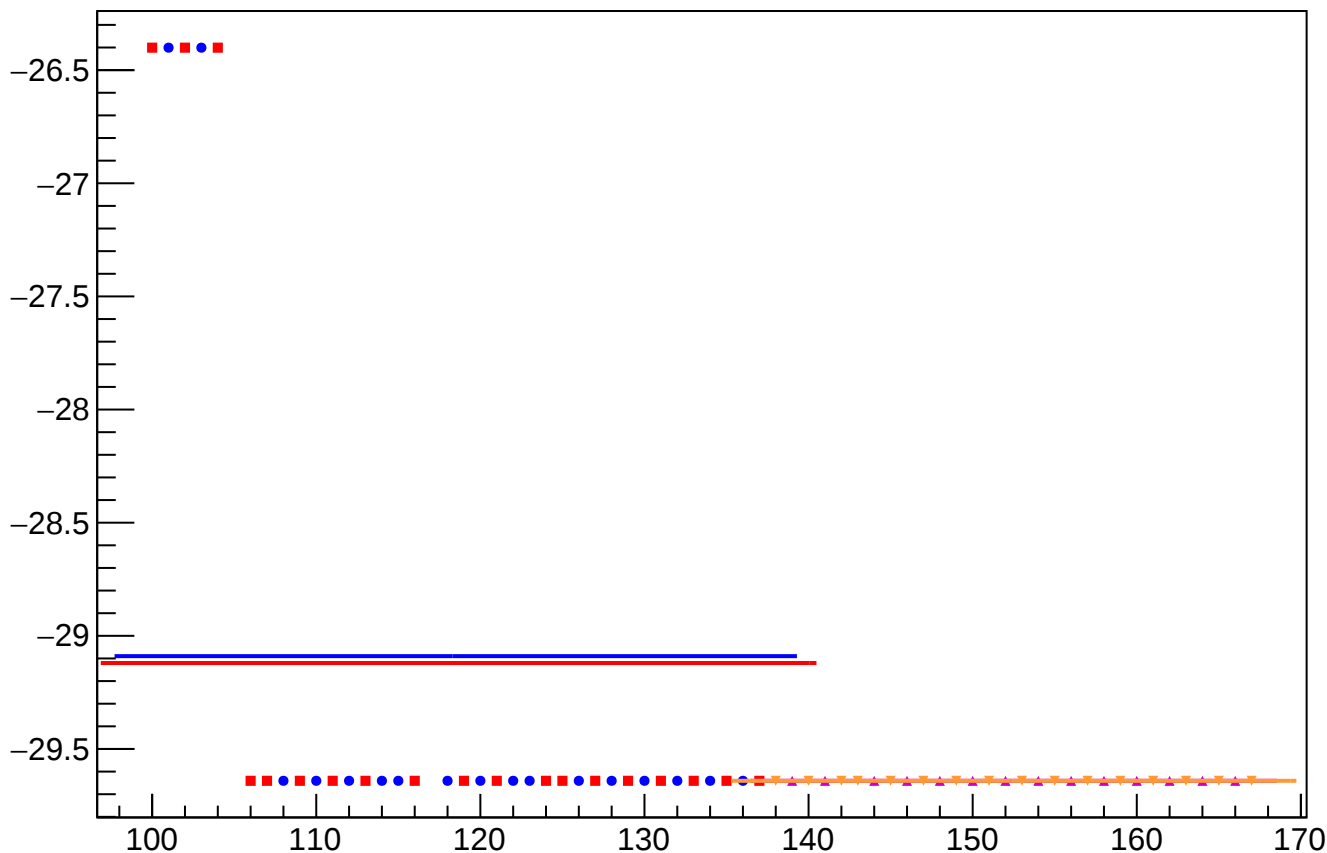
Right: 88.002+/-0.000 χ^2 /NDF: 8043459440319720

In: -22.233+/-0.000 χ^2 /NDF: 13663270361036940

Out: -24.538+/-0.000 χ^2 /NDF: 1451240207503185

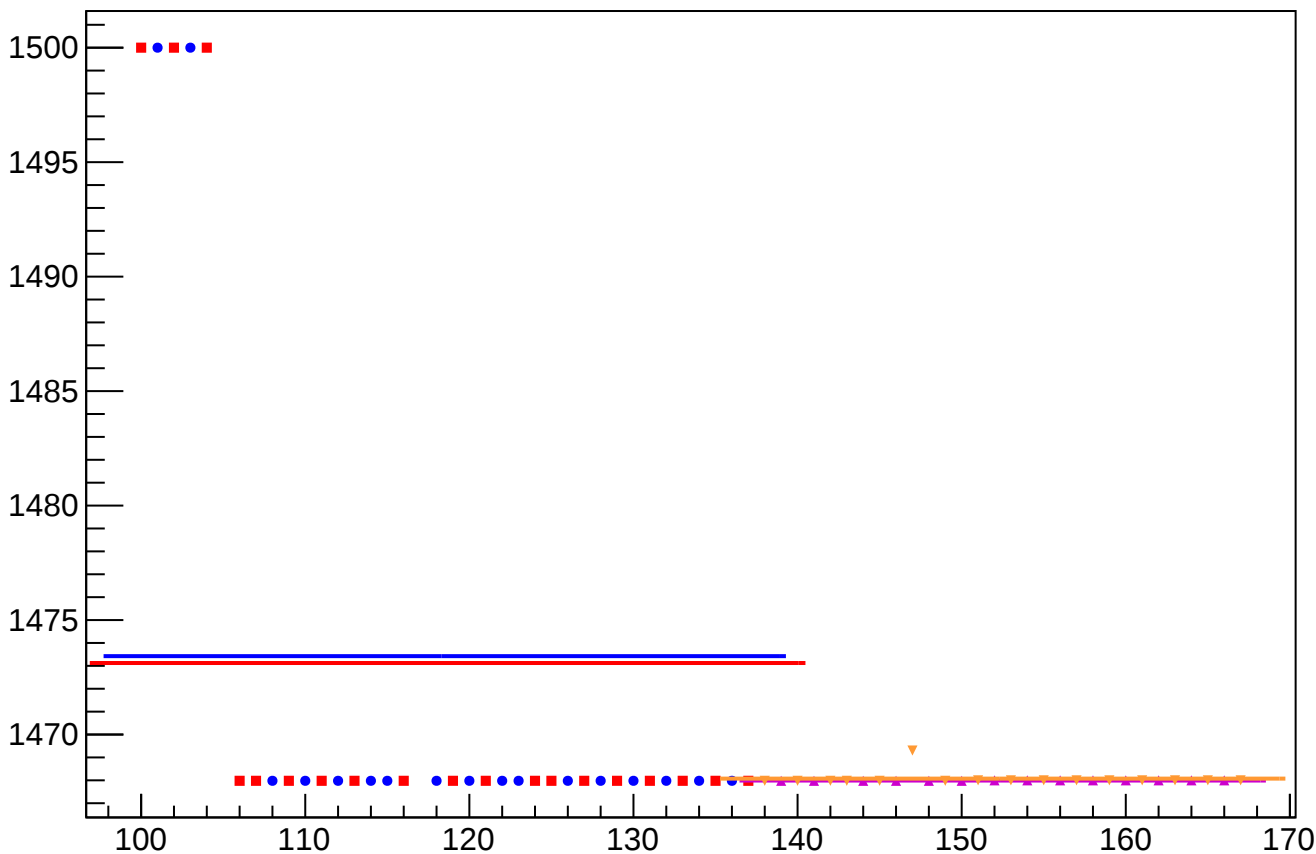
All: -23.428+/-0.000 χ^2 /NDF: 281806680934

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.090+/-0.000	χ^2/NDF : 1028099246109521929793835198578688.0/16	Left: -29.641+/-0.000	χ^2/NDF : 355467.0/29
Left Out: -29.641+/-0.000	χ^2/NDF : 220313.1/15	Right: -29.105+/-0.000	χ^2/NDF : 205050154576273.0
Right Out: -29.120+/-0.000	χ^2/NDF : 1022076578393359839206130891882496.0/18	In: -29.430+/-0.000	χ^2/NDF : 11580943055708661.0
Left In: -29.641+/-0.000	χ^2/NDF : 135154.0/13	Out: -29.448+/-0.000	χ^2/NDF : 1145356996721290.0
		All: -29.439+/-0.000	χ^2/NDF : 230376732812.0

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000

χ^2/NDF : 100421295828245505125784497044848640.0/16

Left Out: 1468.075+/-0.000

χ^2/NDF : 125441849334309110352066409136128.0/15

Right Out: 1473.124+/-0.000

χ^2/NDF : 99833021788859785886082809393577984.0/18

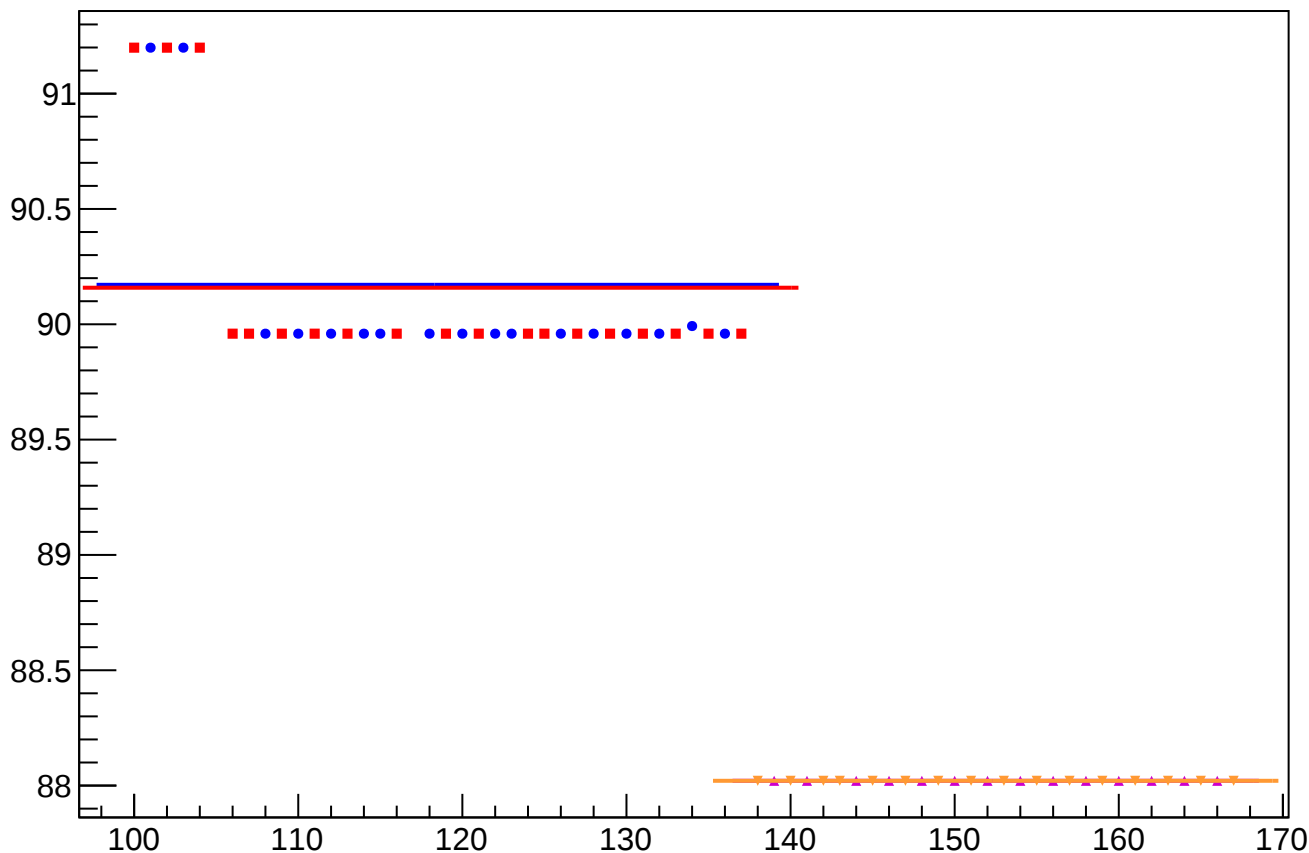
Left In: 1467.990+/-0.000

χ^2/NDF : 110676675579648352636117188608.0/13

All: 1470.004+/-0.000

χ^2/NDF : 2246401696

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 : 4494159.5/15

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 : 9869419.9/29

Right: 90.165+/-0.000

χ^2/NDF : 3000783518908113

In: 88.844+/-0.000

χ^2/NDF : 213112399968405451

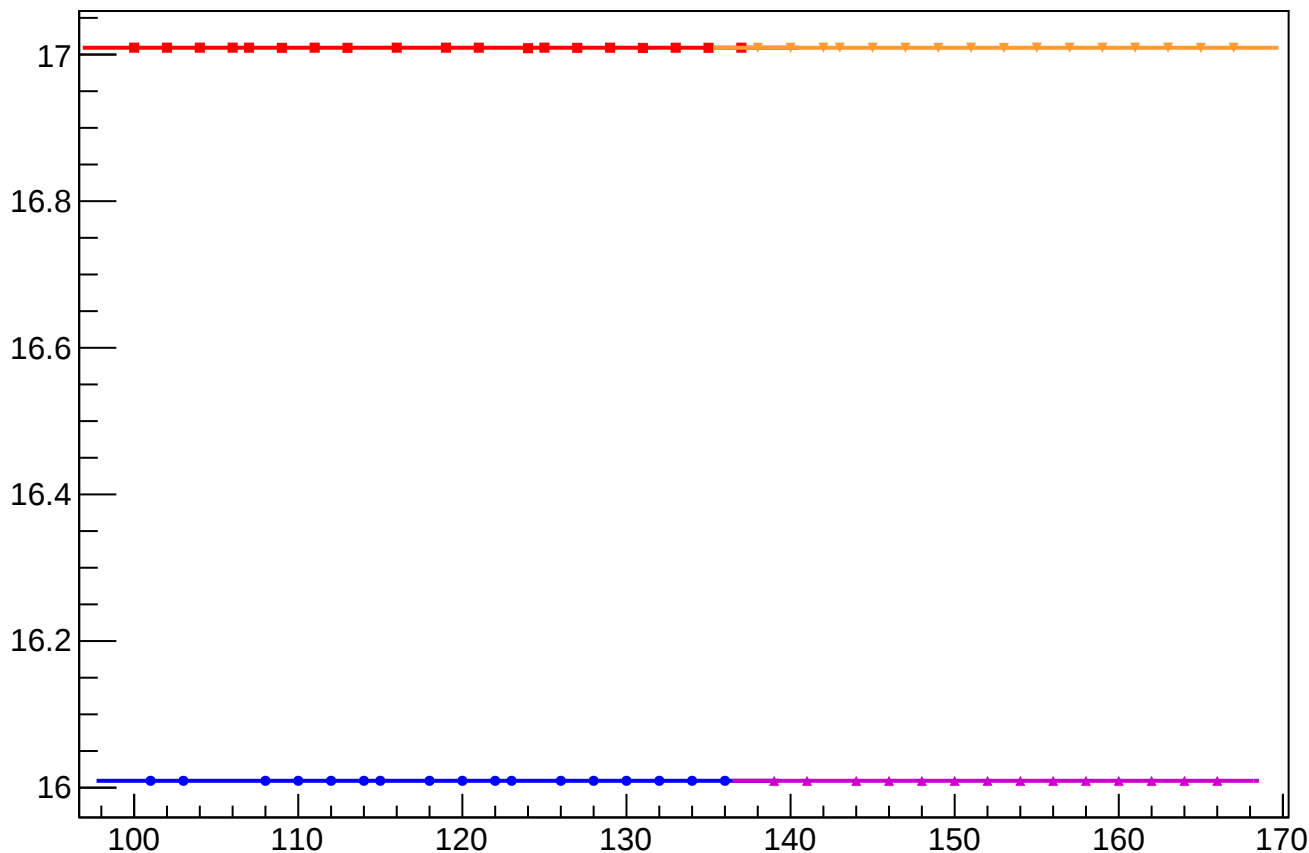
Out: 88.811+/-0.000

χ^2/NDF : 22289422192104020

All: 88.827+/-0.000

χ^2/NDF : 4361055098477

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 44327.7/16

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 17772868462055089518936064.0/15

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12516014336037541461884928.0/18

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 72676.2/13

Left: 16.529 $\pm$ 0.000 χ^2 /NDF: 54152641074210871

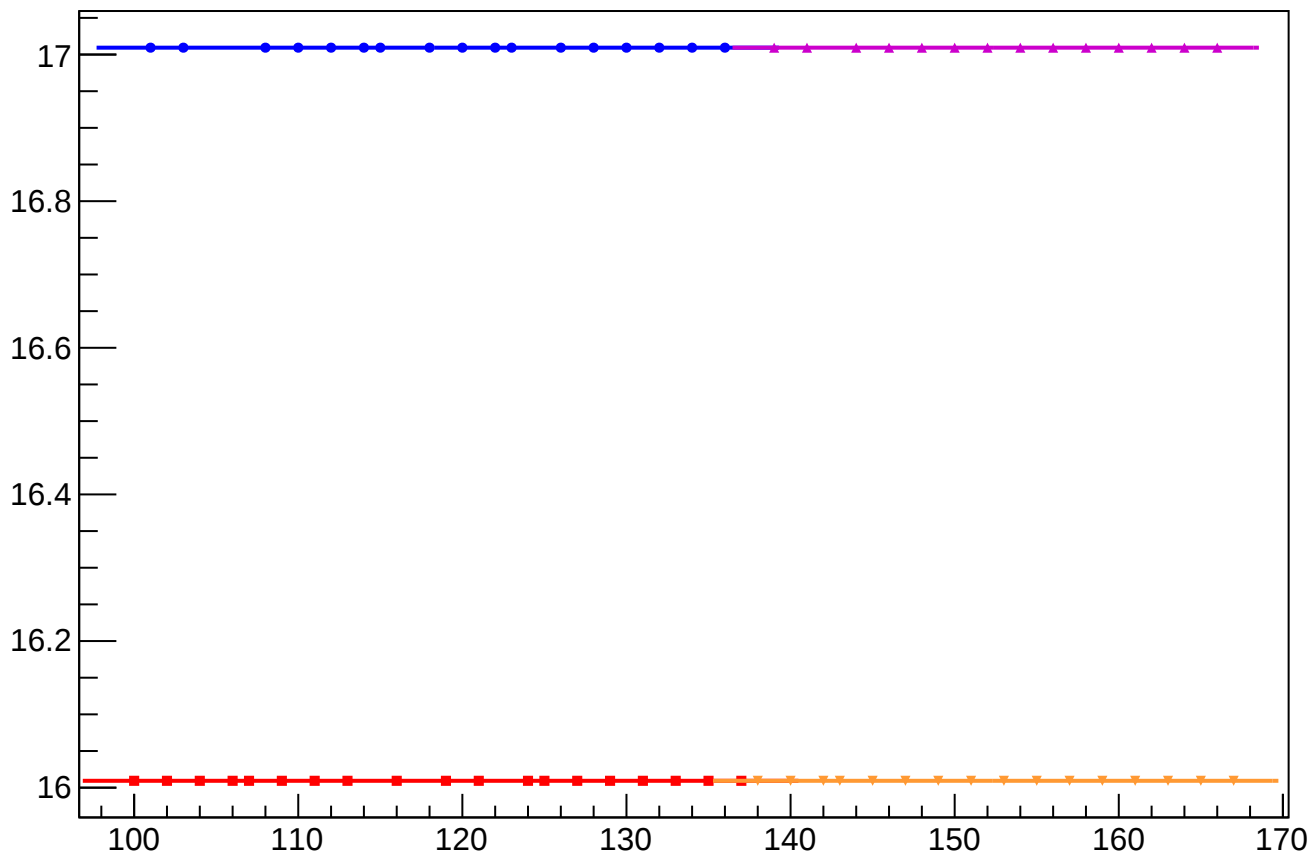
Right: 16.506 $\pm$ 0.000 χ^2 /NDF: 3289281212306816

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 202276.6/30

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 31660011173158205

All: 16.520 $\pm$ 0.000 χ^2 /NDF: 8708641943149

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 132629.6/16

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 89602.0/15

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39518.8/18

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 37941.1/13

Left: 16.483 $\pm$ 0.000 χ^2 /NDF: 5786204223176612

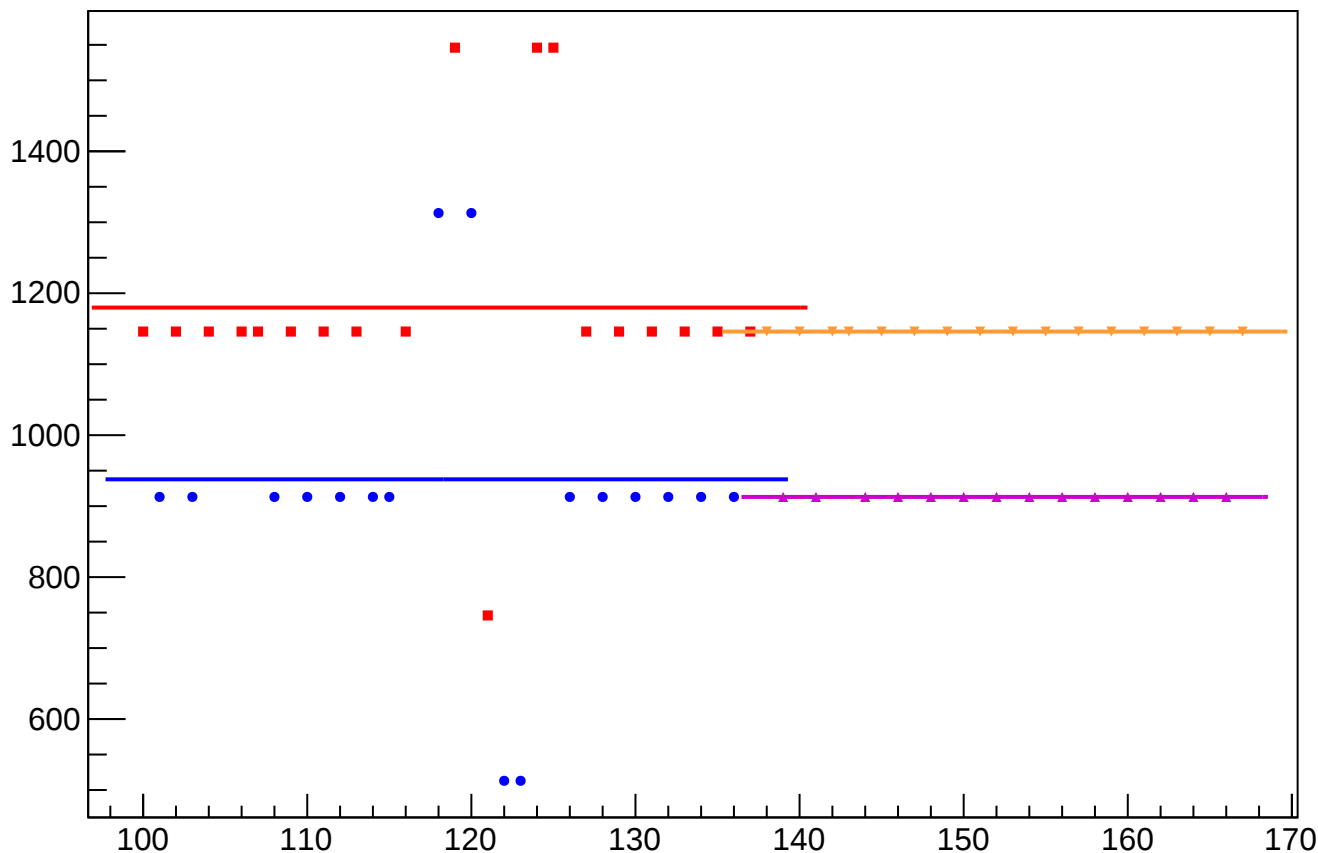
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3437400145243126

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 319760.0/30

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 283257.9/34

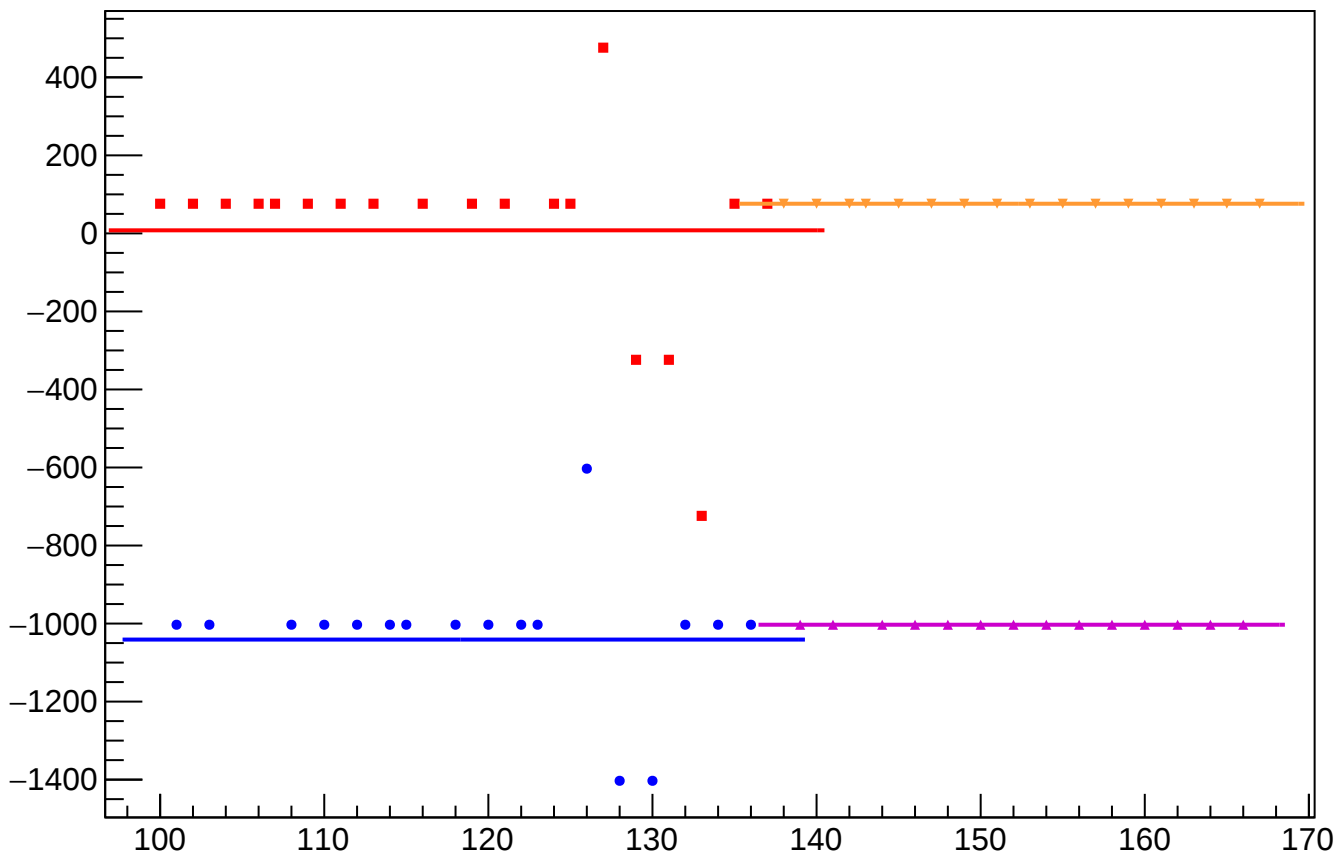
All: 16.486 $\pm$ 0.000 χ^2 /NDF: 9224058950783

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 : 4135490558436759457000062976.0/15
 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: 1044.853+/-0.000 χ^2/NDF : 95419036214

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030+/-0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 10052923607451260422679691264.0/15
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 1823351229932920573165305856.0/13
 All: -463.651+/-0.000 χ^2/NDF : 11421199279