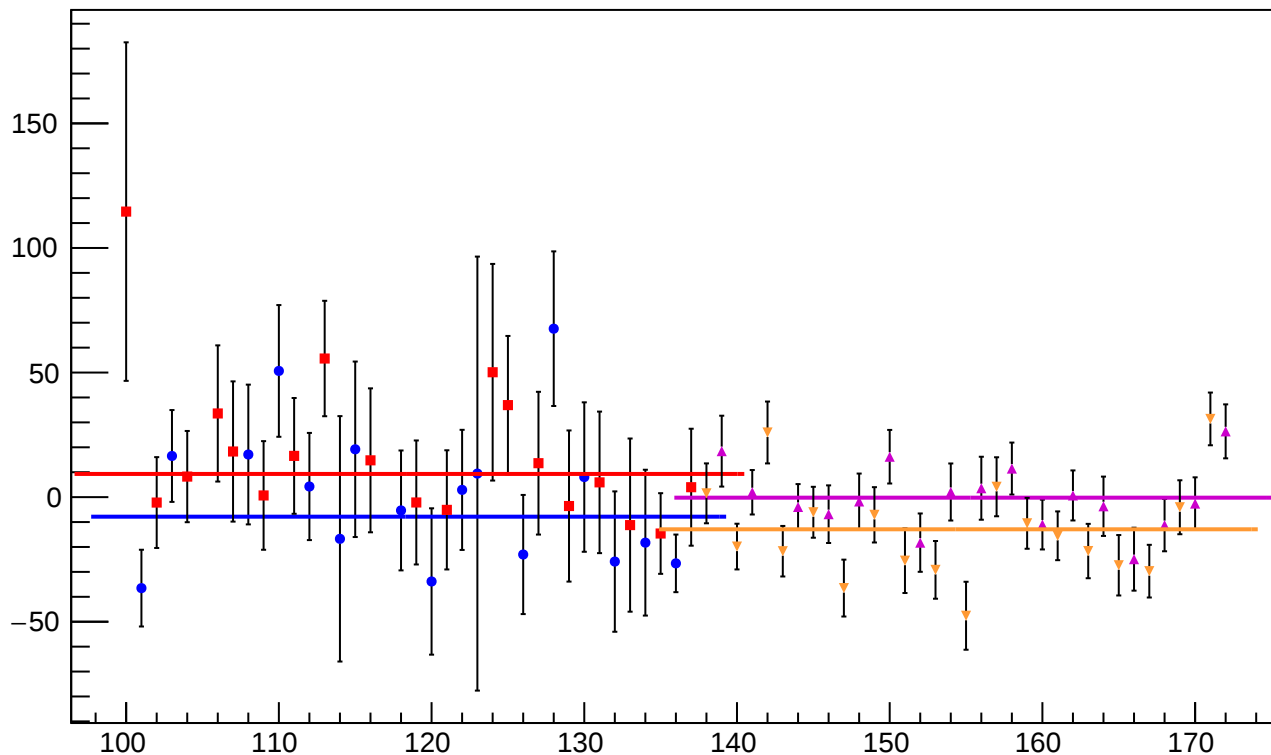


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 $\pm$ 5.608

χ^2/NDF : 22.6/16

Left Out: -12.907 $\pm$ 2.600

χ^2/NDF : 51.9/17

Right Out: 9.309 $\pm$ 5.677

χ^2/NDF : 13.2/18

Left In: -0.214 $\pm$ 2.638

χ^2/NDF : 20.7/16

Left: -6.651 $\pm$ 1.852

χ^2/NDF : 84.3/34

Right: 0.629 $\pm$ 3.990

χ^2/NDF : 40.5/35

In: -1.595 $\pm$ 2.387

χ^2/NDF : 44.8/33

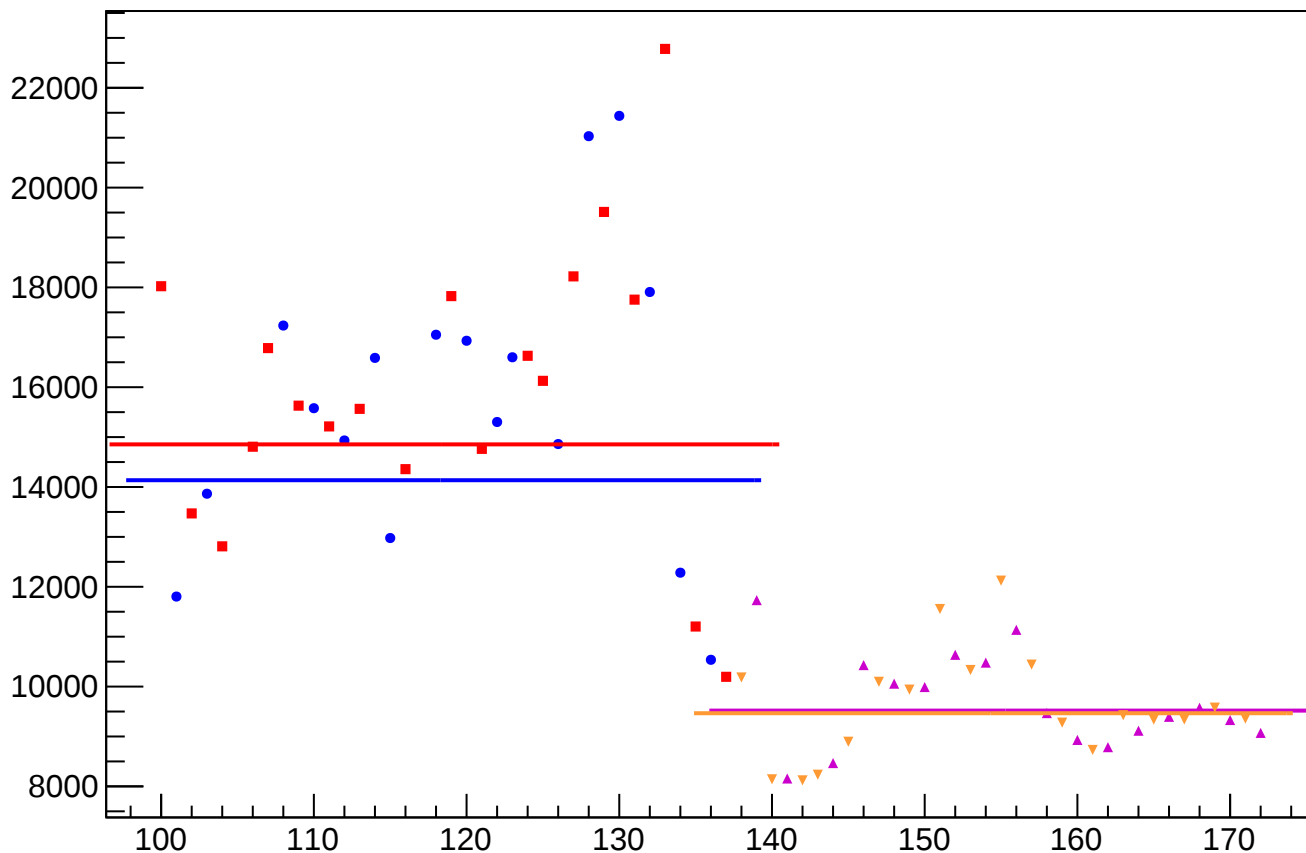
Out: -9.055 $\pm$ 2.364

χ^2/NDF : 77.8/36

All: -5.361 $\pm$ 1.680

χ^2/NDF : 127.6/70

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14135.800 $\pm$ 3.966 χ^2 /NDF: 597179.4/16

Left Out: 9465.935 $\pm$ 1.839 χ^2 /NDF:283169.2/17

Right Out: 14854.033 $\pm$ 4.014 χ^2 /NDF: 472017.6/18

Left In: 9518.571 $\pm$ 1.865 χ^2 /NDF:231564.1/16

Left: 9491.876 $\pm$ 1.309 χ^2 /NDF: 515137.2/34

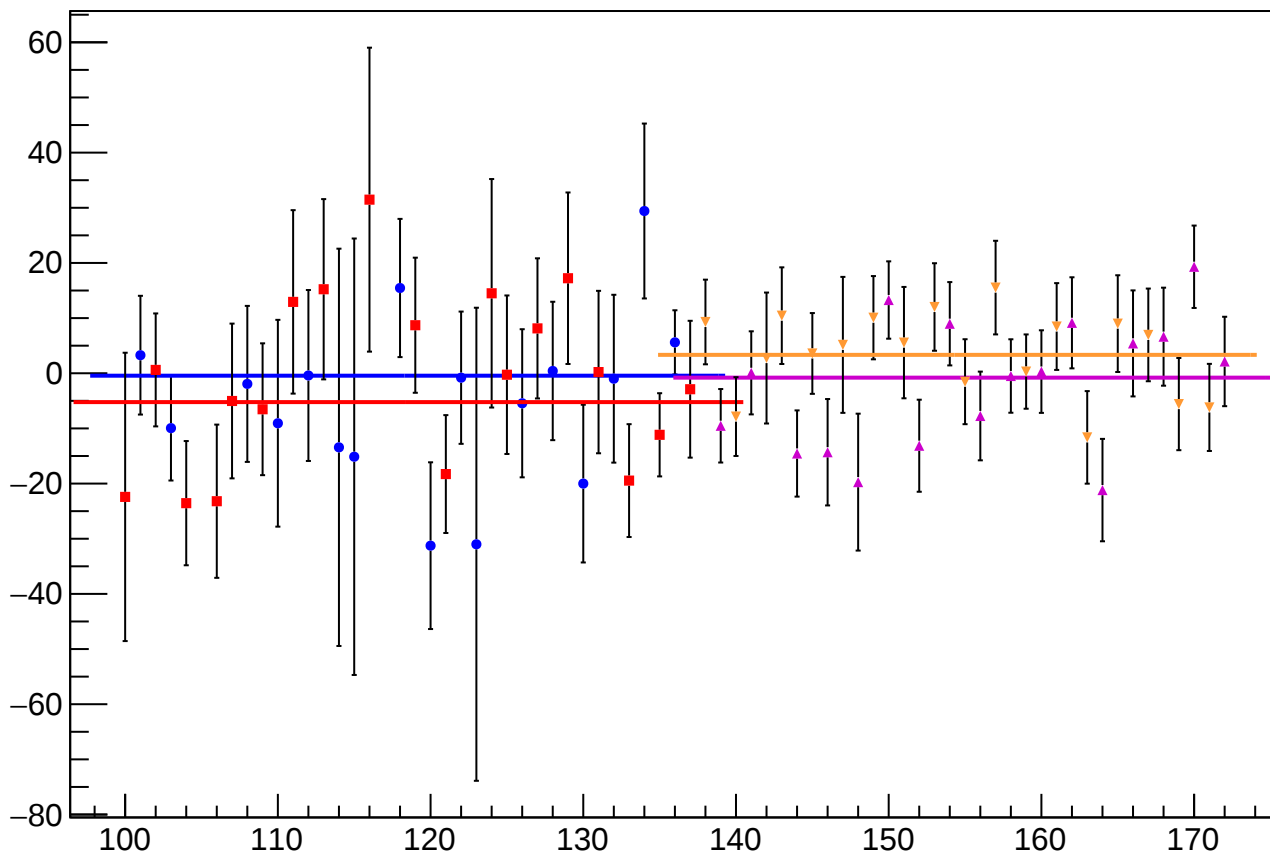
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

In: 10354.858 $\pm$ 1.688 χ^2 /NDF:1938802.7/33

Out: 10400.149 $\pm$ 1.672 χ^2 /NDF:2244323.1/36

All: 10377.721 $\pm$ 1.188 χ^2 /NDF: 4183489.3/71

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 3.336+/-1.939 χ^2/NDF :15.3/17

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

Left In: -0.795+/-1.943 χ^2/NDF :32.5/16

Left: 1.275+/-1.373 χ^2/NDF : 50.1/34

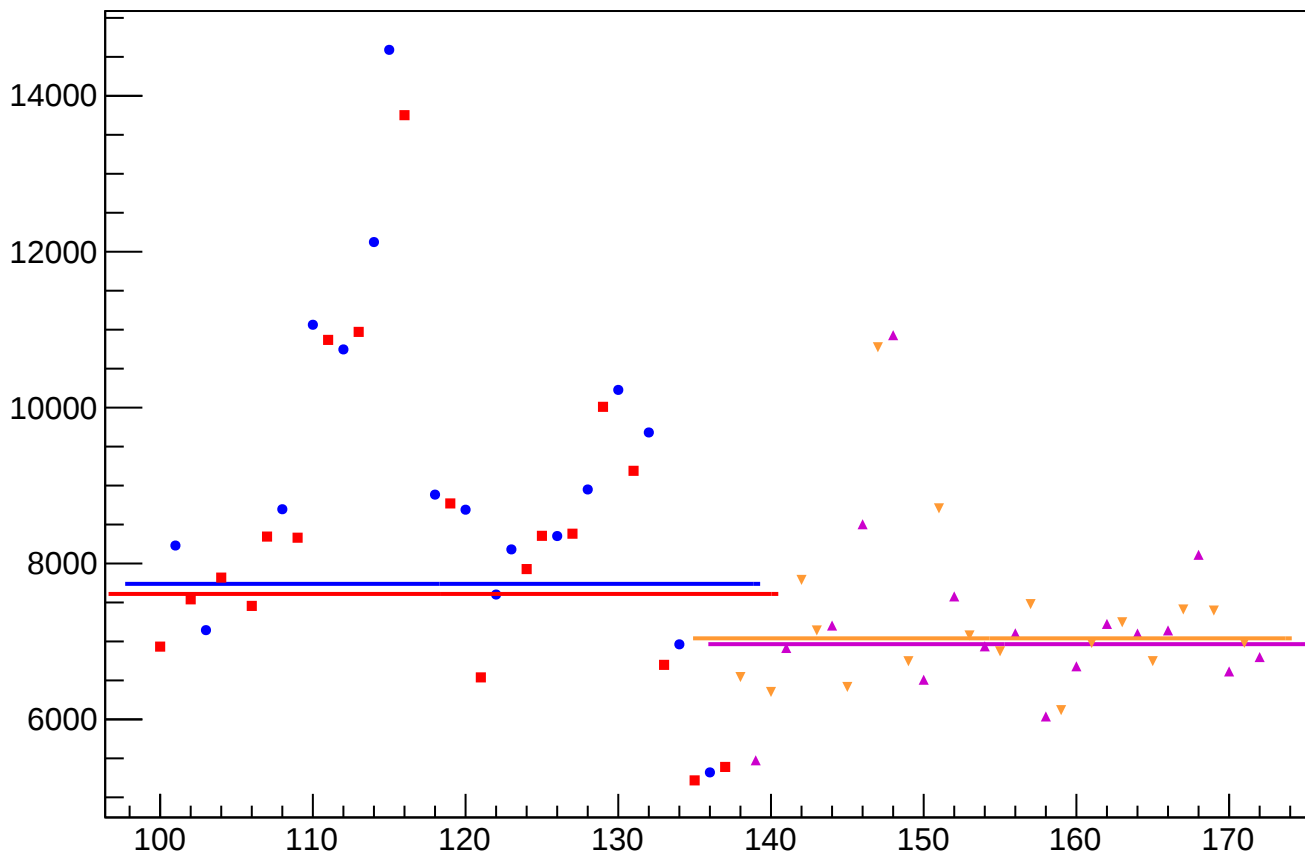
Right: -2.943+/-2.122 χ^2/NDF : 35.2/35

In: -0.694+/-1.642 χ^2/NDF :47.1/33

Out: 0.734+/-1.618 χ^2/NDF :40.5/36

All: 0.031+/-1.153 χ^2/NDF : 88.0/70

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7039.934 $\pm$ 1.371 χ^2 /NDF:345887.5/17

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

Left In: 6965.228 $\pm$ 1.374 χ^2 /NDF:460147.7/16

Left: 7002.658 $\pm$ 0.971 χ^2 /NDF: 807516.1/34

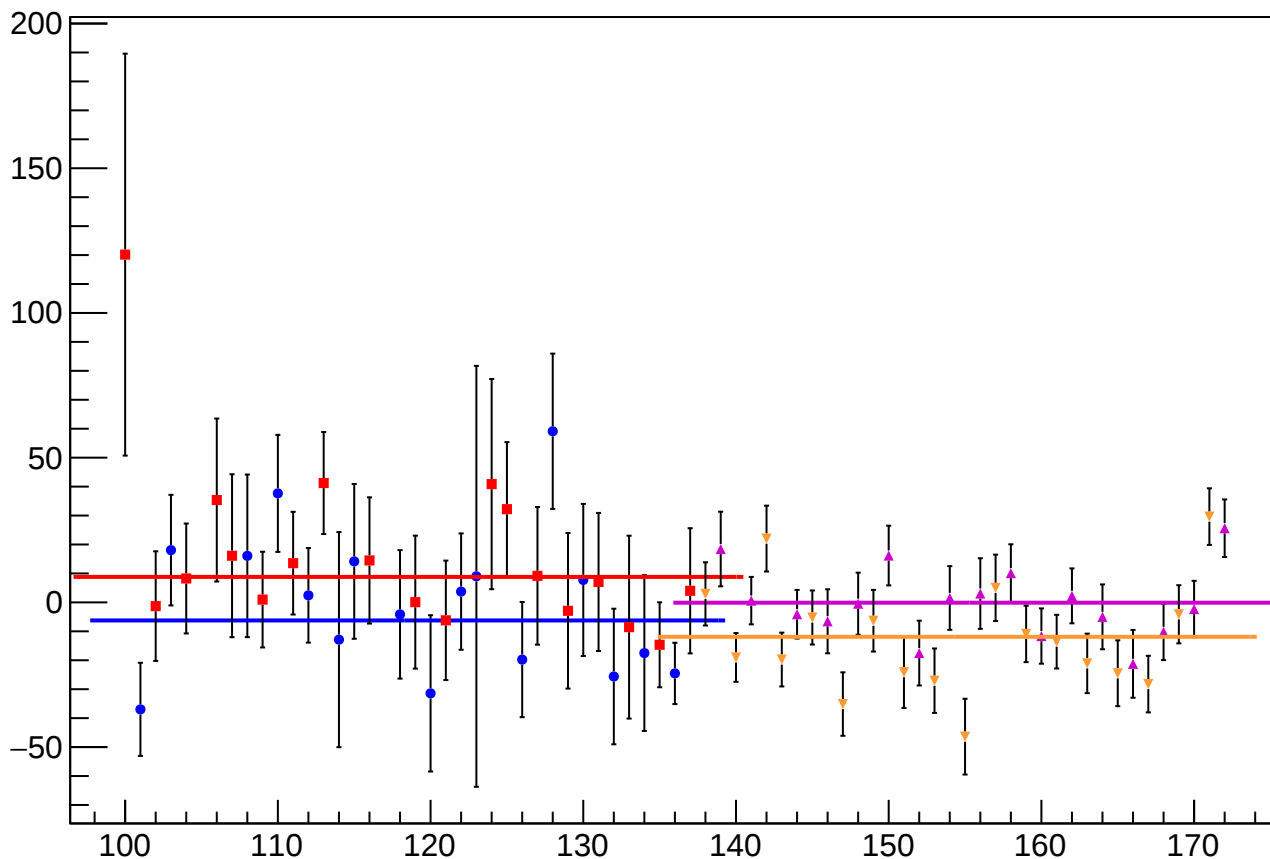
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

In: 7186.444 $\pm$ 1.161 χ^2 /NDF:1291619.1/33

Out: 7212.977 $\pm$ 1.144 χ^2 /NDF:1077481.3/36

All: 7199.906 $\pm$ 0.815 χ^2 /NDF: 2369365.3/70

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -11.901 ± 2.435 $\chi^2/\text{NDF}: 52.9/17$

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

Left In: -0.111 ± 2.478 $\chi^2/\text{NDF}: 21.5/16$

Left: -6.109 ± 1.737 $\chi^2/\text{NDF}: 85.9/34$

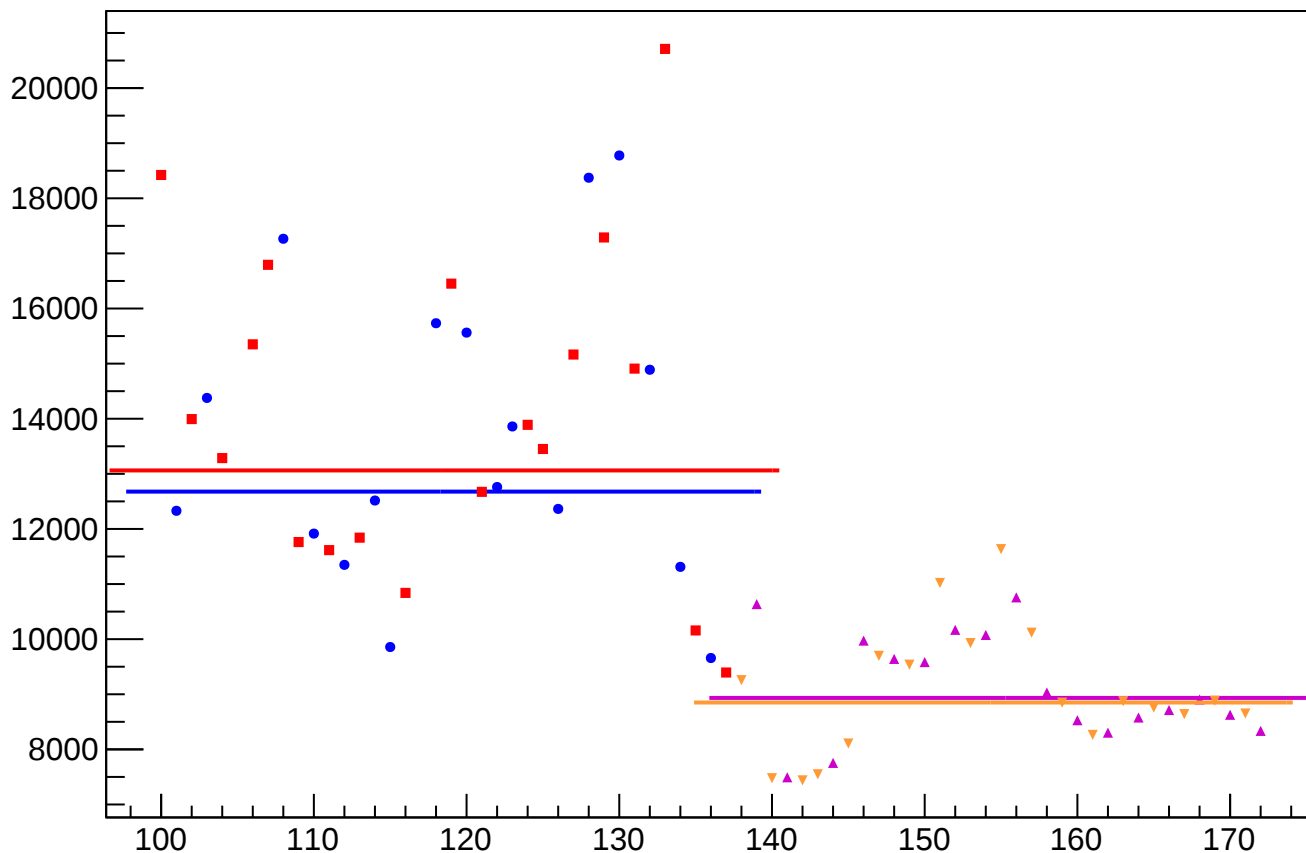
Right: 1.306 ± 3.541 $\chi^2/\text{NDF}: 40.9/35$

In: -1.313 ± 2.222 $\chi^2/\text{NDF}: 45.9/33$

Out: -7.932 ± 2.189 $\chi^2/\text{NDF}: 79.9/36$

All: -4.671 ± 1.559 $\chi^2/\text{NDF}: 130.3/70$

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8850.582+/-1.722 χ^2/NDF : 364013.9/17

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

Left In: 8933.698+/-1.752 χ^2/NDF : 285561.1/16

Left: 8891.413+/-1.228 χ^2/NDF : 650719.7/34

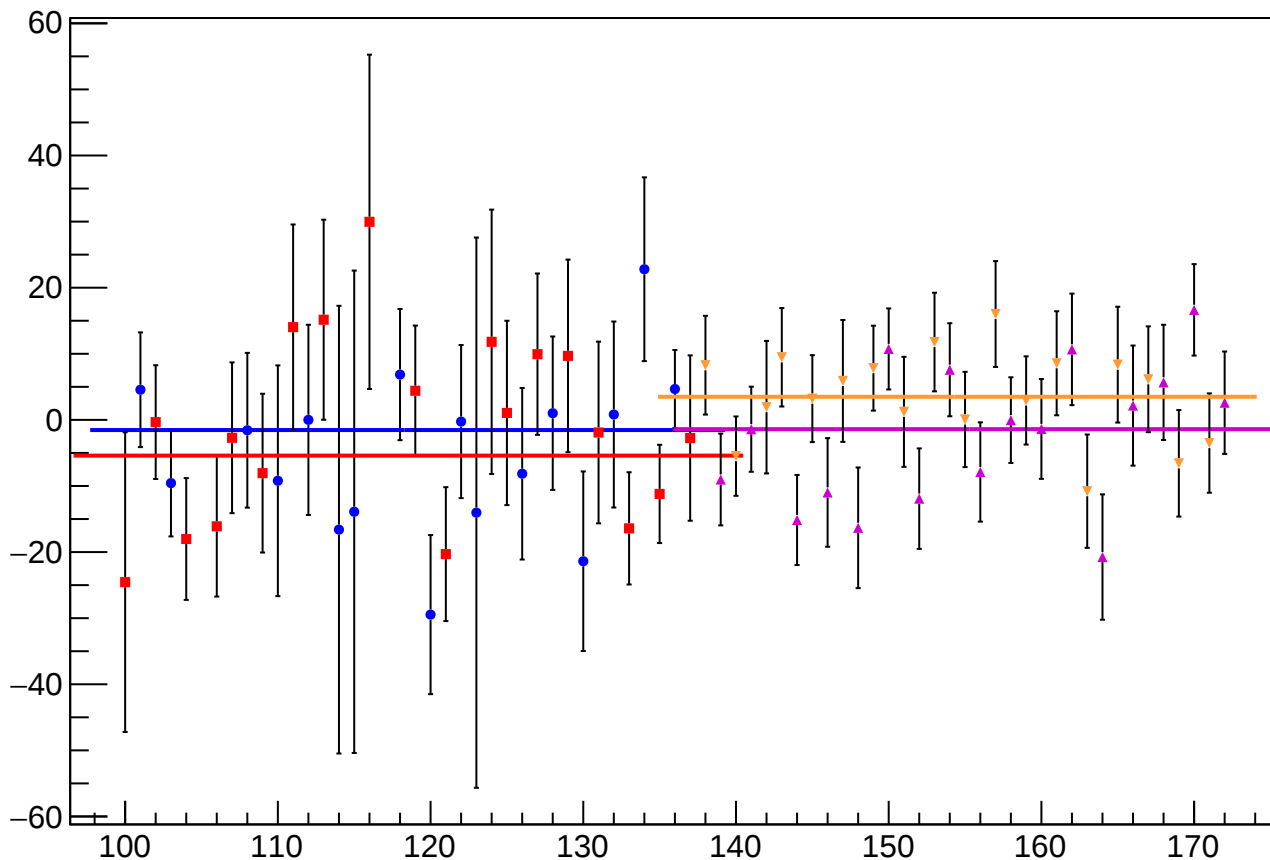
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

In: 9667.823+/-1.571 χ^2/NDF : 1734363.0/33

Out: 9658.091+/-1.548 χ^2/NDF : 2008493.4/36

All: 9662.885+/-1.103 χ^2/NDF : 3742875.9/70

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.538 $\pm$ 2.790 χ^2/NDF : 14.8/16

Left Out: 3.500 $\pm$ 1.785 χ^2/NDF :13.9/17

Right Out: -5.405 $\pm$ 2.640 χ^2/NDF : 18.6/18

Left In: -1.402 $\pm$ 1.812 χ^2/NDF :31.6/16

Left: 1.087 $\pm$ 1.272 χ^2/NDF : 49.2/34

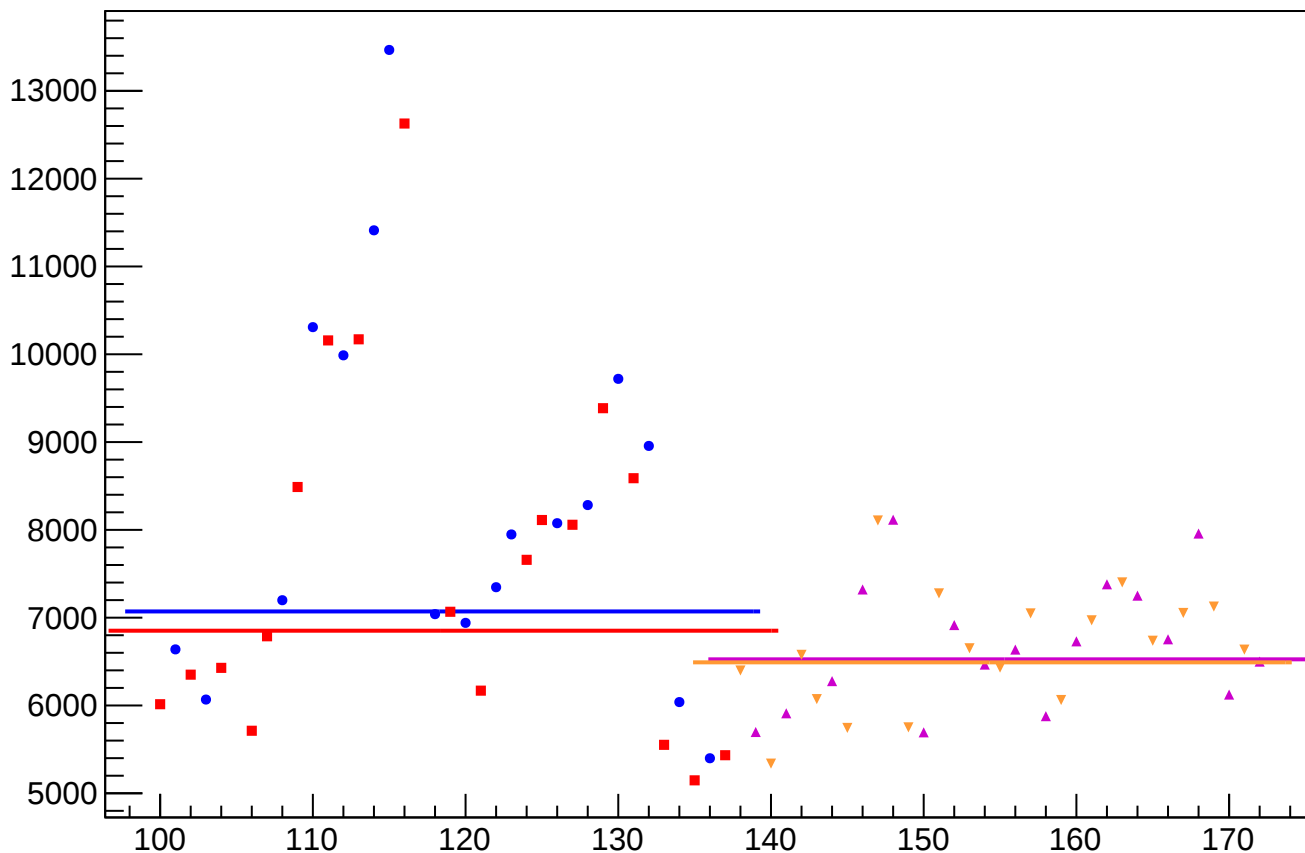
Right: -3.578 $\pm$ 1.918 χ^2/NDF : 34.4/35

In: -1.442 $\pm$ 1.520 χ^2/NDF :46.5/33

Out: 0.706 $\pm$ 1.478 χ^2/NDF :40.3/36

All: -0.338 $\pm$ 1.060 χ^2/NDF : 87.8/70

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6491.263 $\pm$ 1.262 χ^2 /NDF: 285832.5/17

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

Left In: 6525.516 $\pm$ 1.282 χ^2 /NDF: 287142.0/16

Left: 6508.126 $\pm$ 0.899 χ^2 /NDF: 573337.1/34

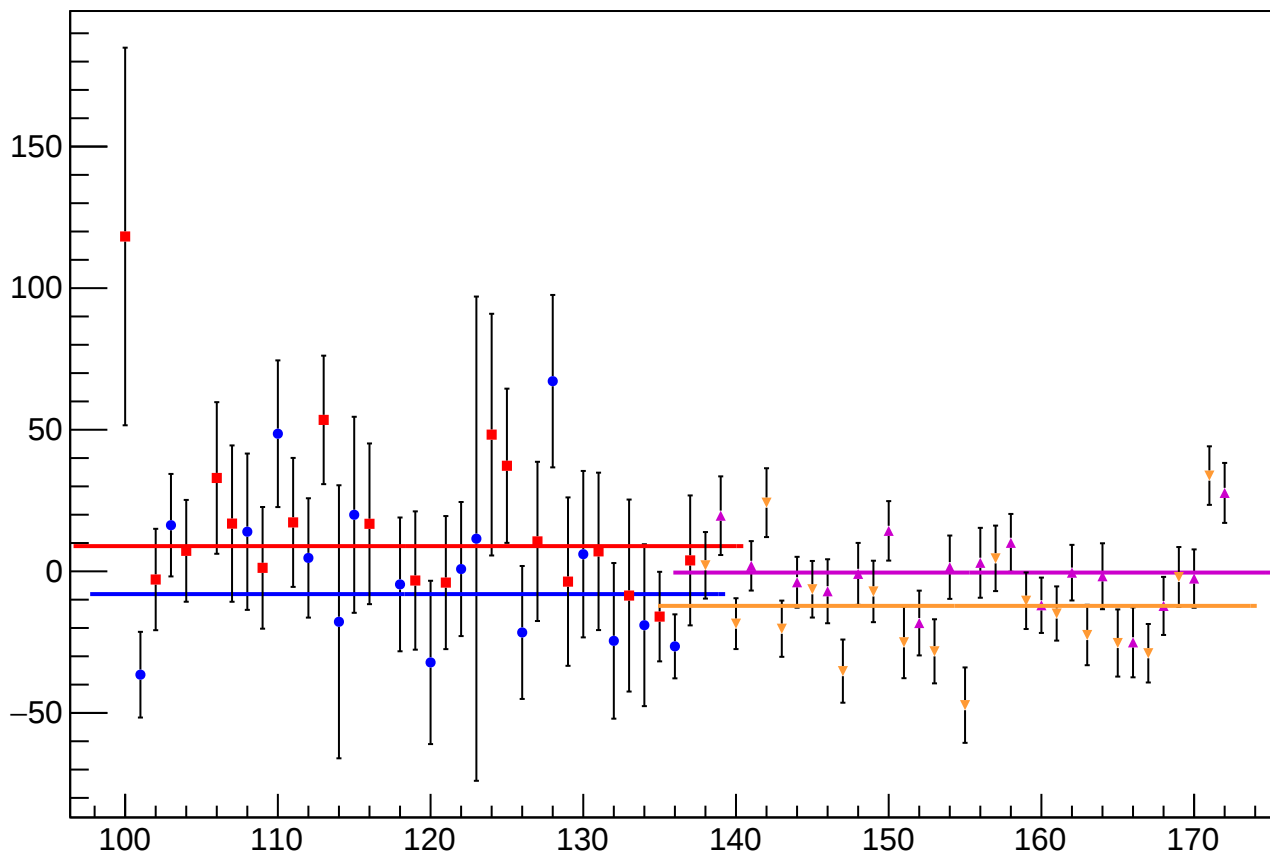
Right: 6955.236 $\pm$ 1.356 χ^2 /NDF: 1291674.4/35

In: 6687.378 $\pm$ 1.075 χ^2 /NDF: 941651.8/33

Out: 6604.313 $\pm$ 1.045 χ^2 /NDF: 995809.3/36

All: 6644.697 $\pm$ 0.749 χ^2 /NDF: 1940530.3/70

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -12.194 $\pm$ 2.542 χ^2/NDF : 54.2/17

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

Left In: -0.434 $\pm$ 2.578 χ^2/NDF : 22.0/16

Left: -6.398 $\pm$ 1.810 χ^2/NDF : 86.7/34

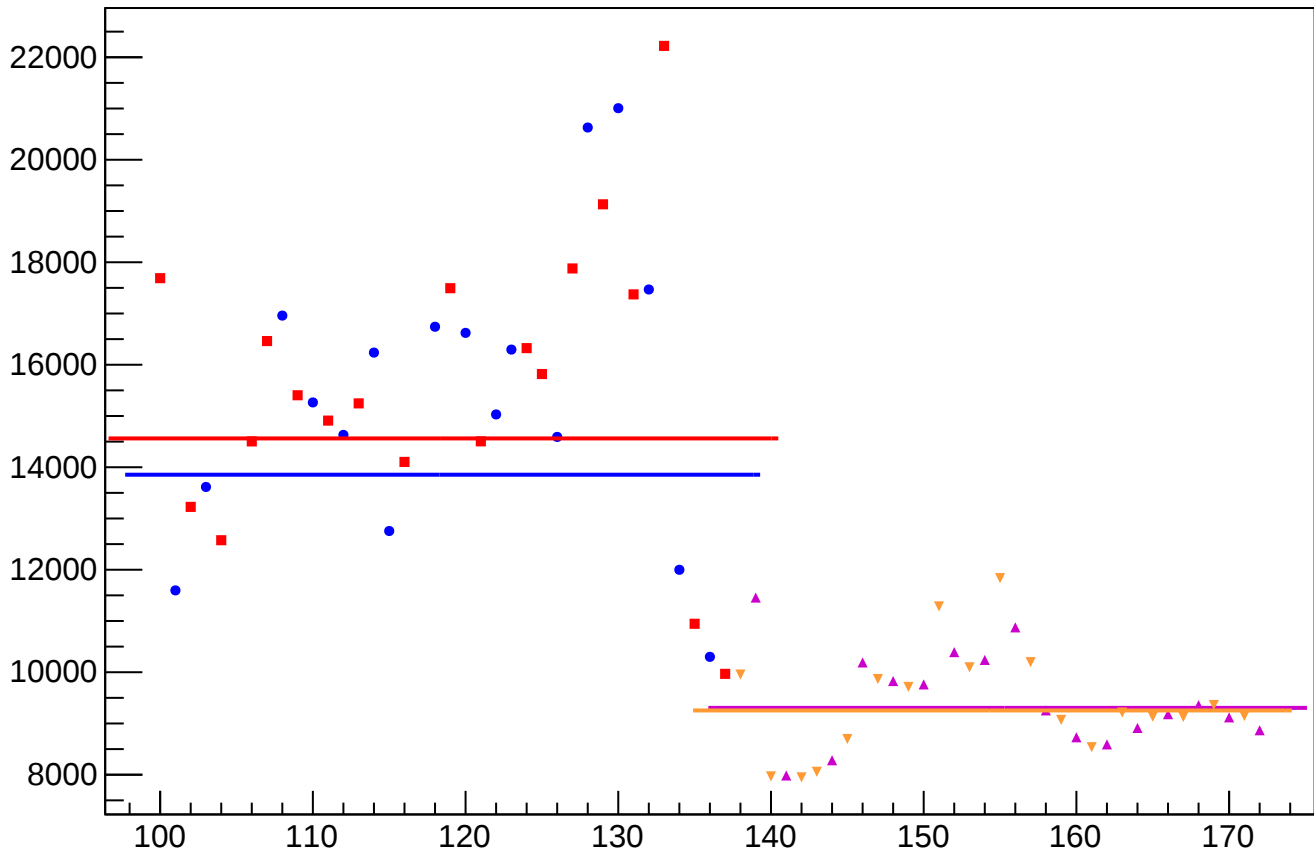
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

In: -1.805 $\pm$ 2.334 χ^2/NDF : 46.2/33

Out: -8.553 $\pm$ 2.312 χ^2/NDF : 79.7/36

All: -5.211 $\pm$ 1.643 χ^2/NDF : 130.1/70

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9254.164 $\pm$ 1.797 χ^2 /NDF:279962.3/17

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

Left In: 9304.711 $\pm$ 1.823 χ^2 /NDF:228882.7/16

Left: 9279.077 $\pm$ 1.280 χ^2 /NDF: 509234.9/34

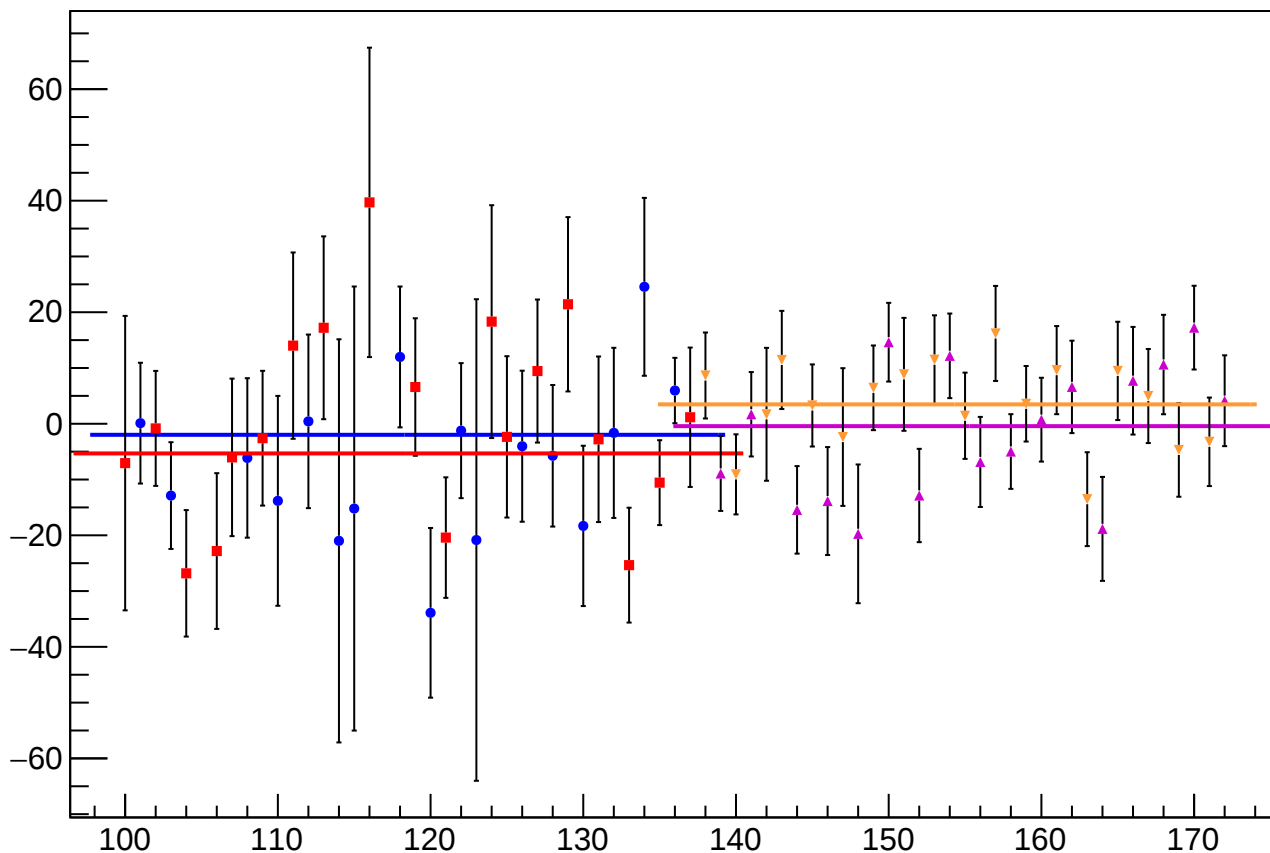
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 10124.924 $\pm$ 1.651 χ^2 /NDF:1952643.7/33

Out: 10169.996 $\pm$ 1.635 χ^2 /NDF:2259300.4/36

All: 10147.675 $\pm$ 1.162 χ^2 /NDF: 4212320.5/70

diff_bpm4acY_mean vs Slug, Sign Corrected



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

Left Out: 3.478 ± 1.948 $\chi^2/\text{NDF}: 15.2/17$

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

Left In: -0.427 ± 1.952 $\chi^2/\text{NDF}: 33.0/16$

Left: 1.530 ± 1.379 $\chi^2/\text{NDF}: 50.2/34$

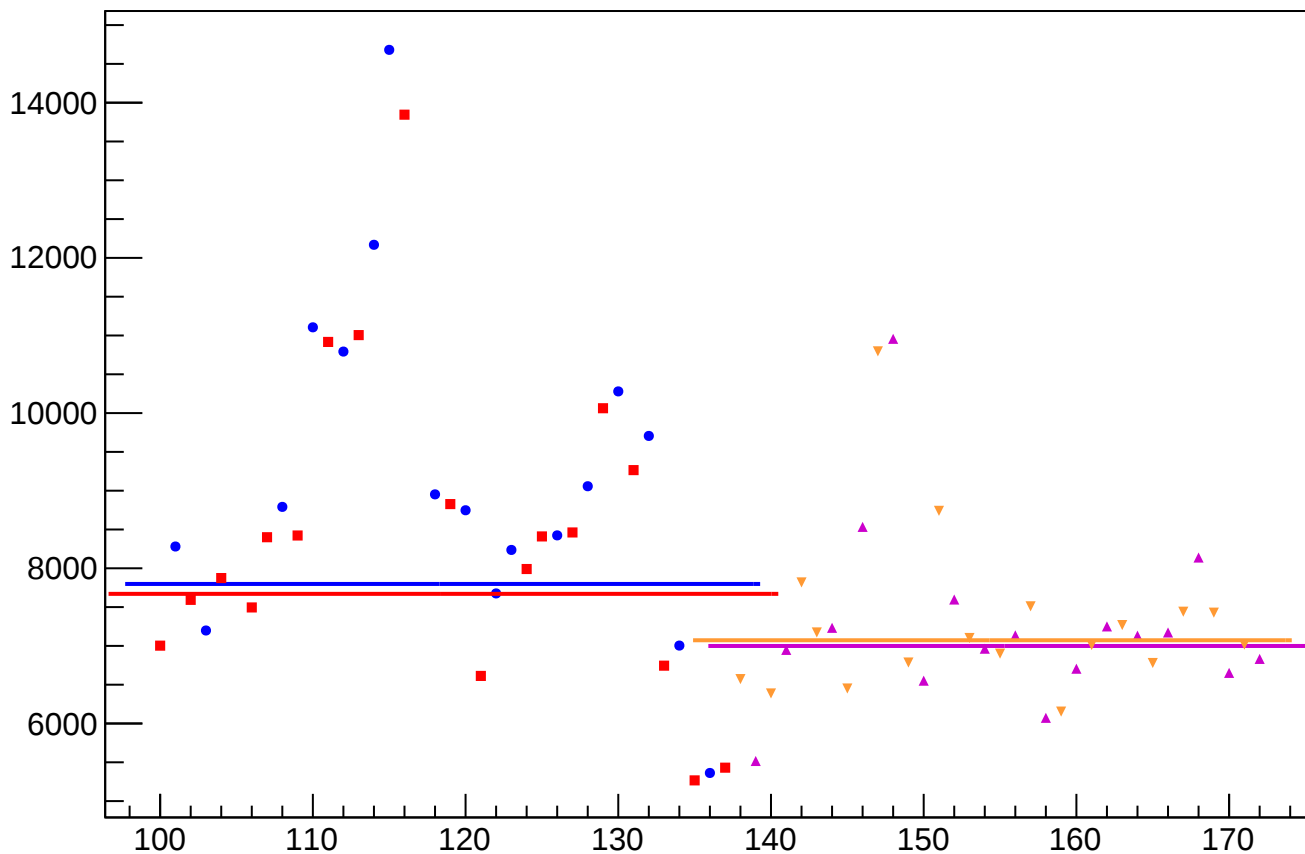
Right: -3.723 ± 2.138 $\chi^2/\text{NDF}: 39.0/35$

In: -0.869 ± 1.651 $\chi^2/\text{NDF}: 47.3/33$

Out: 0.818 ± 1.627 $\chi^2/\text{NDF}: 45.6/36$

All: -0.013 ± 1.159 $\chi^2/\text{NDF}: 93.4/70$

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7072.561+/-1.377 χ^2/NDF : 341990.1/17

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

Left In: 6998.988+/-1.381 χ^2/NDF : 453138.7/16

Left: 7035.857+/-0.975 χ^2/NDF : 796552.0/34

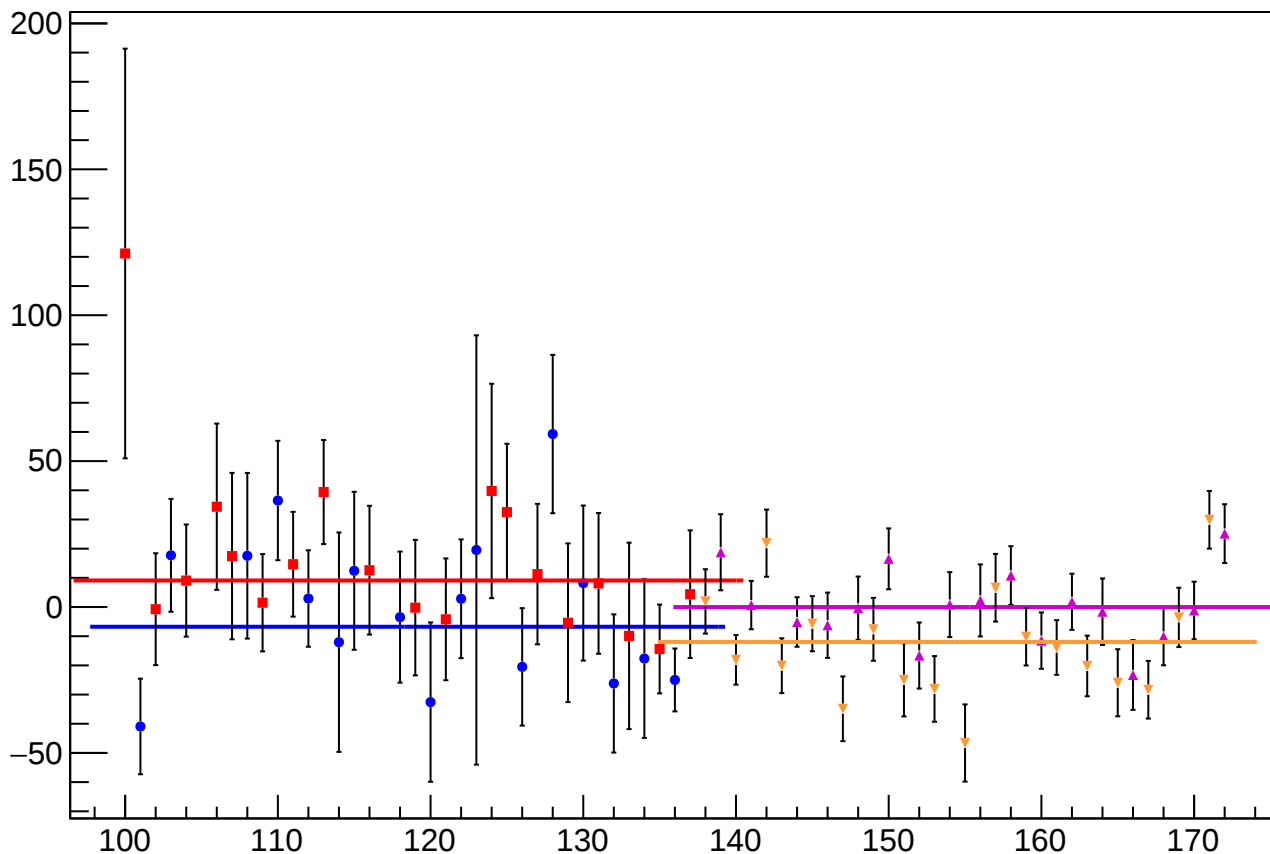
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7226.616+/-1.168 χ^2/NDF : 1284884.3/33

Out: 7253.421+/-1.150 χ^2/NDF : 1071685.8/36

All: 7240.216+/-0.819 χ^2/NDF : 2356837.5/70

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

Left Out: -11.958 ± 2.462 $\chi^2/\text{NDF}: 52.5/17$

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

Left In: -0.005 ± 2.508 $\chi^2/\text{NDF}: 21.2/16$

Left: -6.094 ± 1.757 $\chi^2/\text{NDF}: 85.2/34$

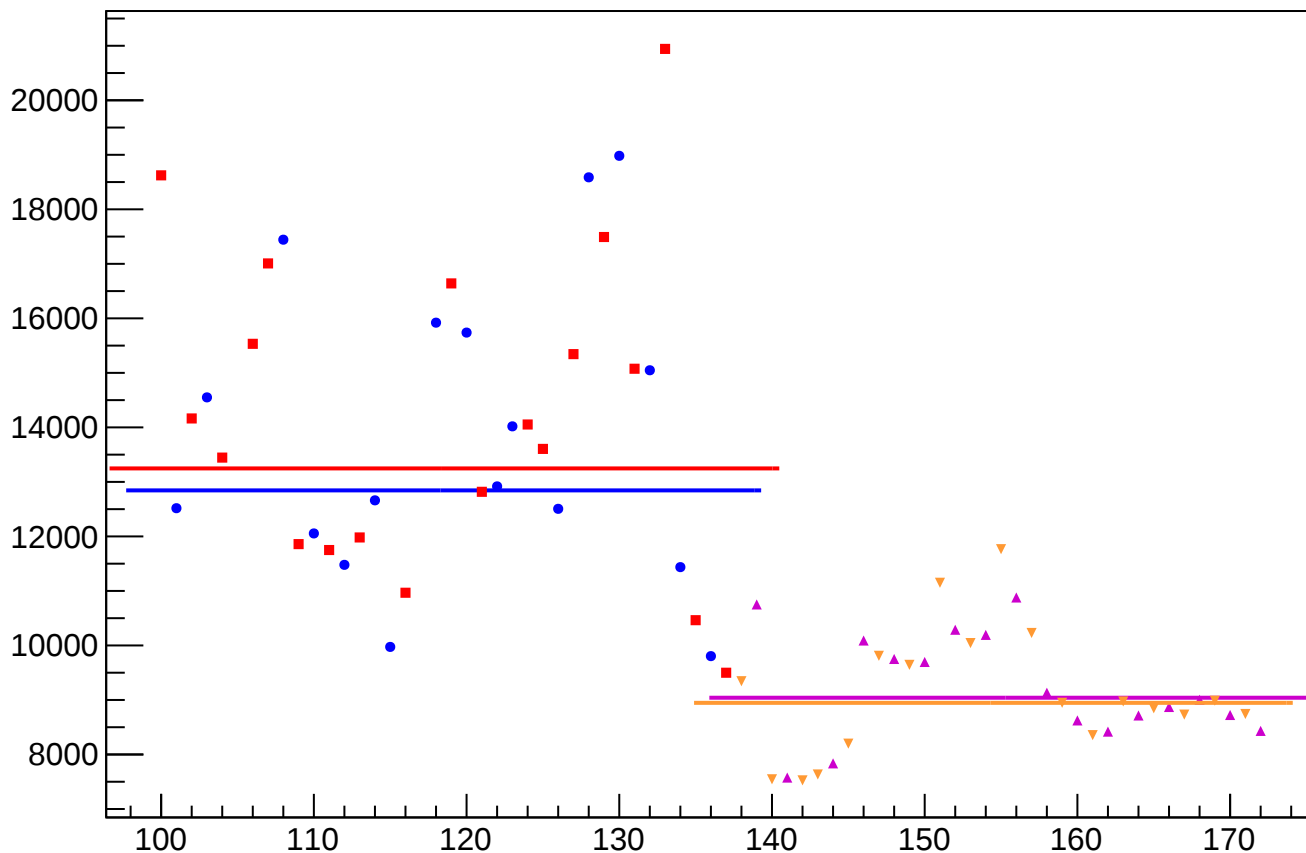
Right: 1.193 ± 3.590 $\chi^2/\text{NDF}: 40.8/35$

In: -1.327 ± 2.250 $\chi^2/\text{NDF}: 46.3/33$

Out: -7.941 ± 2.215 $\chi^2/\text{NDF}: 78.7/36$

All: -4.686 ± 1.578 $\chi^2/\text{NDF}: 129.4/70$

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8947.238+/-1.741 χ^2/NDF : 365652.2/17

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

Left In: 9041.042+/-1.774 χ^2/NDF : 285045.8/16

Left: 8993.260+/-1.242 χ^2/NDF : 652122.7/34

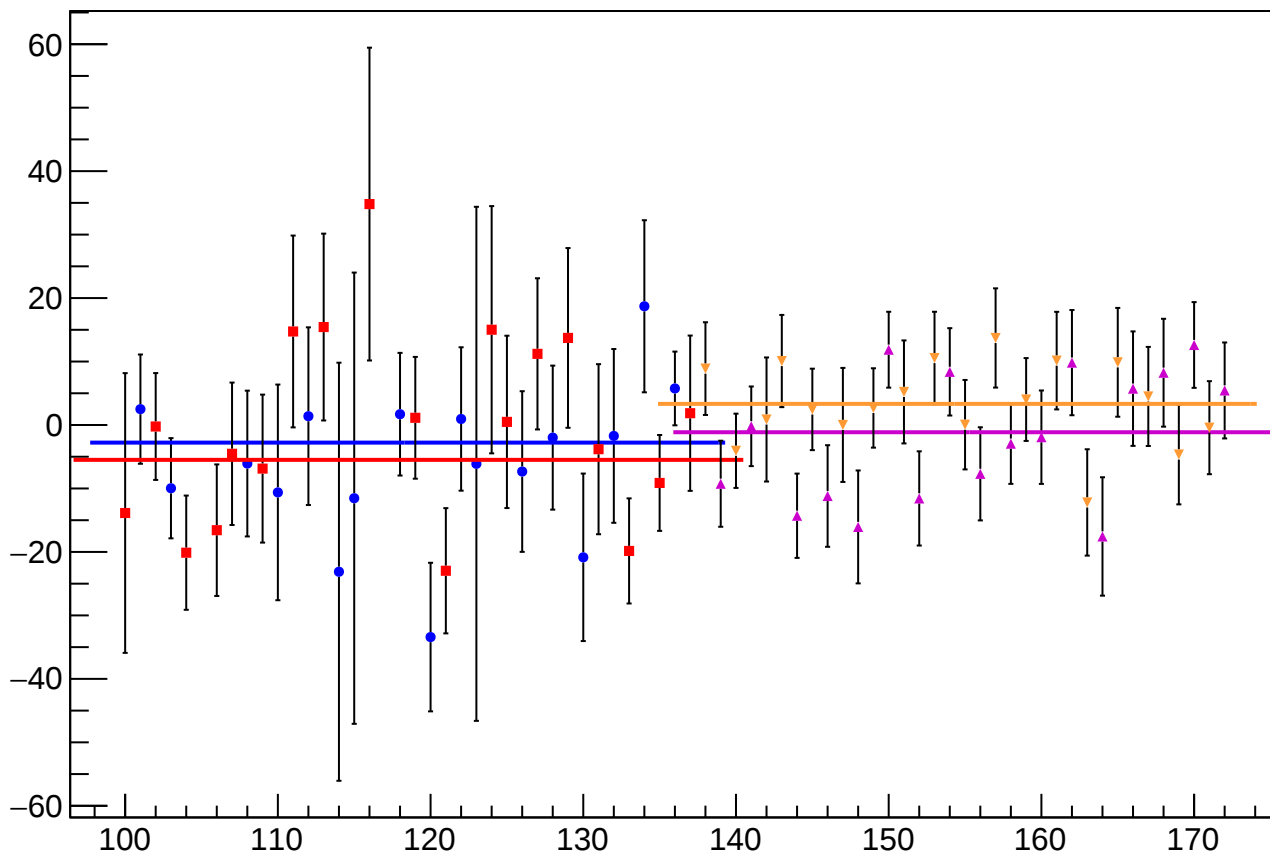
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

In: 9785.446+/-1.591 χ^2/NDF : 1732269.5/33

Out: 9767.453+/-1.566 χ^2/NDF : 2015146.4/36

All: 9776.308+/-1.116 χ^2/NDF : 3747481.0/70

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

Left Out: 3.328 ± 1.742 χ^2/NDF : 12.4/17

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

Left In: -1.139 ± 1.771 χ^2/NDF : 30.8/16

Left: 1.131 ± 1.242 χ^2/NDF : 46.5/34

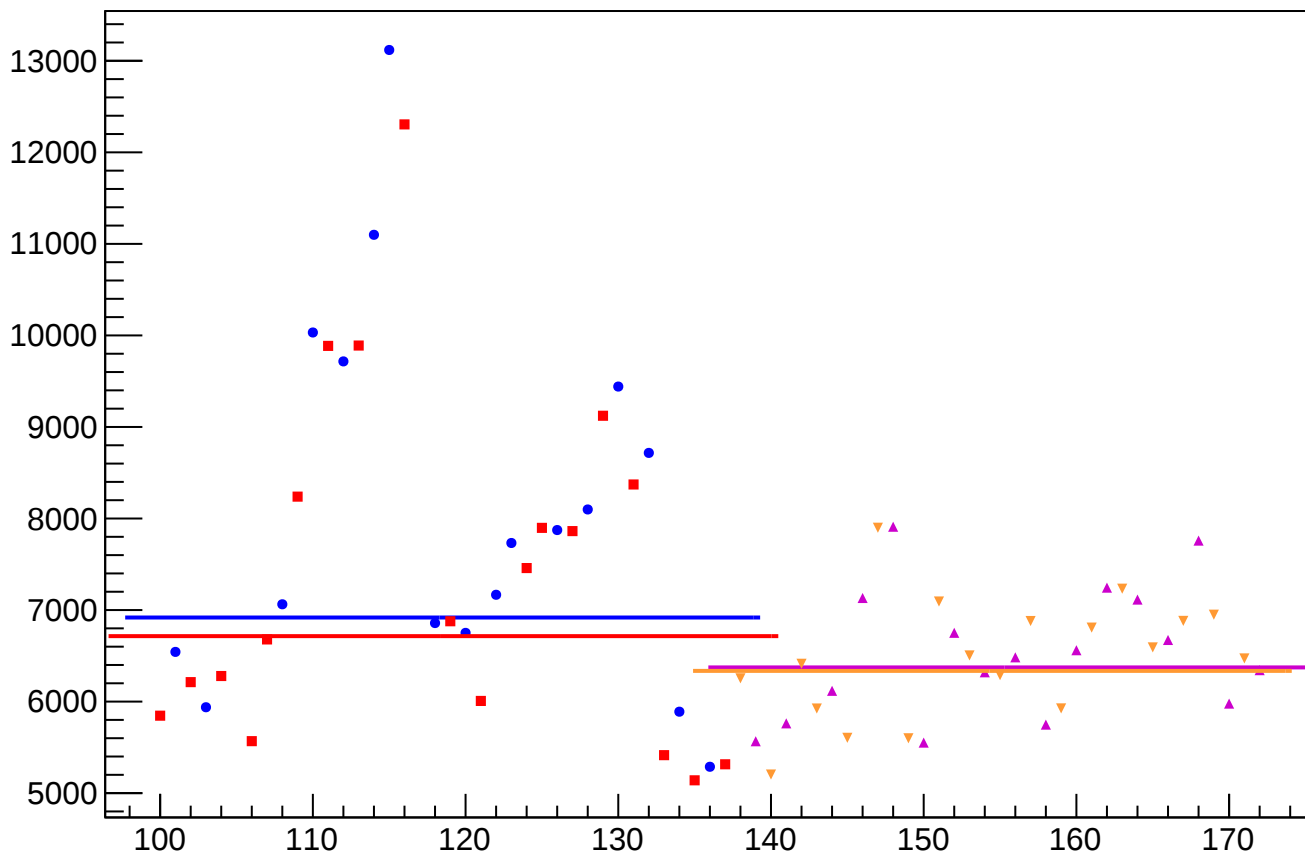
Right: -4.206 ± 1.879 χ^2/NDF : 39.6/35

In: -1.623 ± 1.486 χ^2/NDF : 47.0/33

Out: 0.577 ± 1.445 χ^2/NDF : 43.6/36

All: -0.492 ± 1.036 χ^2/NDF : 91.7/70

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6918.477 ± 1.932 $\chi^2/\text{NDF}: 587039.3/16$

Left Out: 6335.441 ± 1.232 $\chi^2/\text{NDF}: 287141.9/17$

Right Out: 6715.022 ± 1.830 $\chi^2/\text{NDF}: 656010.3/18$

Left In: 6373.304 ± 1.252 $\chi^2/\text{NDF}: 289154.0/16$

Left: 6354.061 ± 0.878 $\chi^2/\text{NDF}: 576760.6/34$

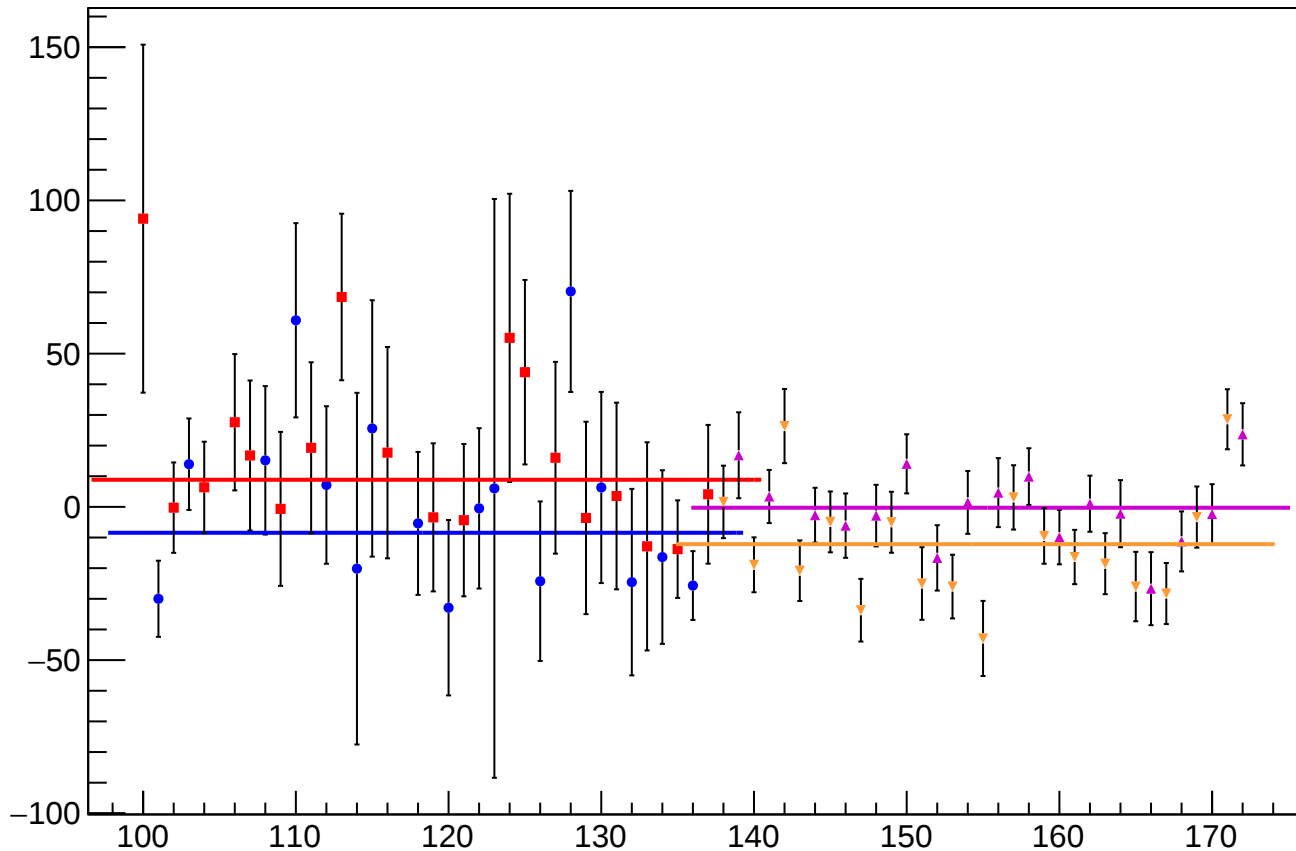
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

In: 6534.620 ± 1.051 $\chi^2/\text{NDF}: 932282.8/33$

Out: 6453.822 ± 1.022 $\chi^2/\text{NDF}: 972771.0/36$

All: 6493.092 ± 0.733 $\chi^2/\text{NDF}: 1908093.1/70$

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.448 ± 5.393 χ^2/NDF : 22.0/16

Left Out: -12.162 ± 2.412 χ^2/NDF : 52.6/17

Right Out: 8.854 ± 5.508 χ^2/NDF : 14.2/18

Left In: -0.279 ± 2.431 χ^2/NDF : 21.1/16

Left: -6.268 ± 1.712 χ^2/NDF : 85.8/34

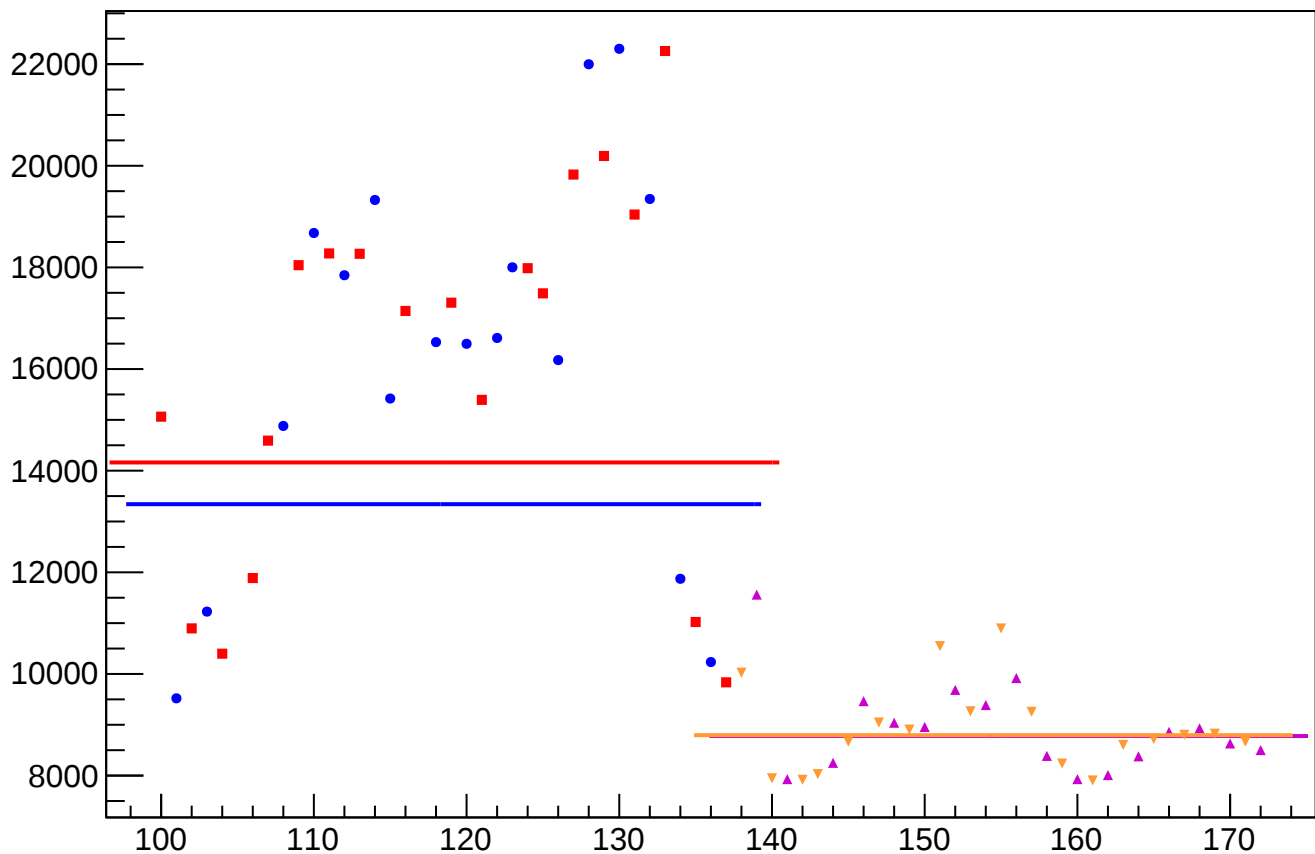
Right: 0.019 ± 3.854 χ^2/NDF : 41.3/35

In: -1.658 ± 2.216 χ^2/NDF : 45.0/33

Out: -8.782 ± 2.209 χ^2/NDF : 79.0/36

All: -5.232 ± 1.565 χ^2/NDF : 129.2/70

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8794.611 $\pm$ 1.705 χ^2/NDF :203223.3/17

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

Left In: 8778.177 $\pm$ 1.719 χ^2/NDF :198678.7/16

Left: 8786.460 $\pm$ 1.211 χ^2/NDF : 401948.0/34

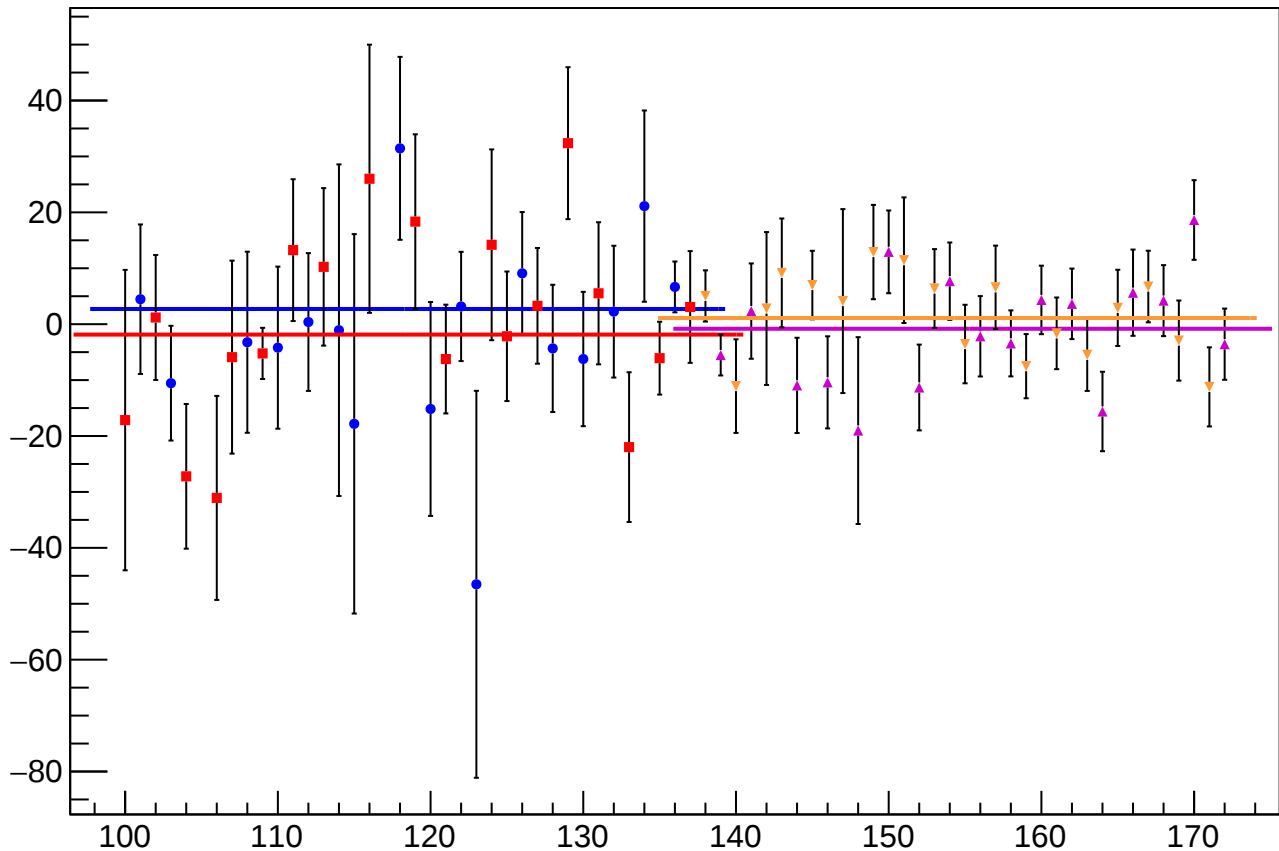
Right: 13742.695 $\pm$ 2.725 χ^2/NDF : 1999035.6/35

In: 9548.803 $\pm$ 1.567 χ^2/NDF :2433106.6/33

Out: 9657.944 $\pm$ 1.562 χ^2/NDF :2728394.4/36

All: 9603.549 $\pm$ 1.106 χ^2/NDF : 5163933.9/70

diff_bpm1Y_mean vs Slug, Sign Corrected



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

Left Out: 1.105 ± 1.684 $\chi^2/\text{NDF}: 16.5/17$

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

Left In: -0.819 ± 1.617 $\chi^2/\text{NDF}: 27.3/16$

Left: 0.104 ± 1.166 $\chi^2/\text{NDF}: 44.5/34$

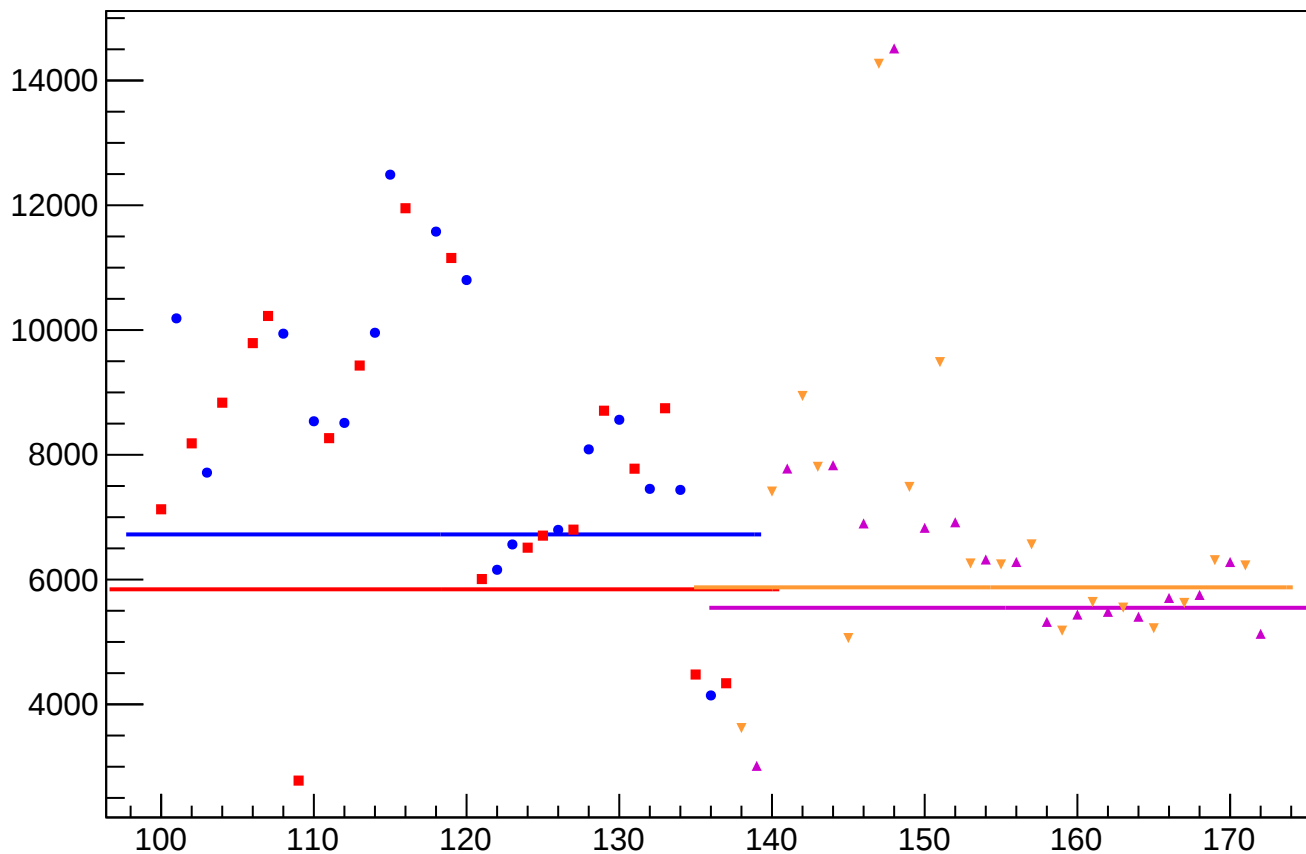
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: 0.089 ± 1.394 $\chi^2/\text{NDF}: 40.2/33$

Out: 0.148 ± 1.386 $\chi^2/\text{NDF}: 41.1/36$

All: 0.118 ± 0.983 $\chi^2/\text{NDF}: 81.3/70$

diff_bpm1Y_rms vs Slug, Sign Corrected



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

Left Out: 5875.429+/-1.191 χ^2/NDF : 1666830.4/17

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

Left In: 5547.545+/-1.143 χ^2/NDF : 2079147.0/16

Left: 5704.806+/-0.825 χ^2/NDF : 3785429.4/34

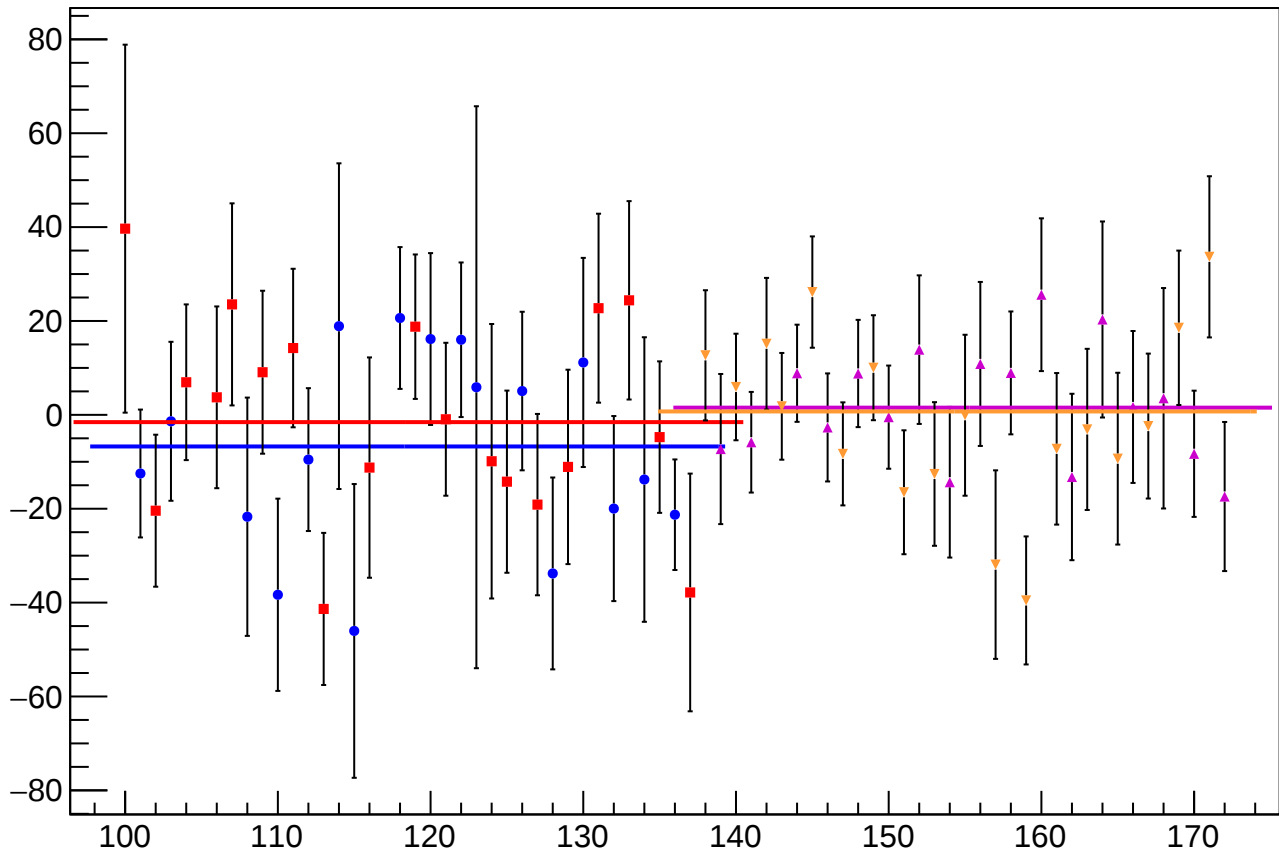
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5849.363+/-0.986 χ^2/NDF : 3742866.3/33

Out: 5865.227+/-0.980 χ^2/NDF : 3944281.6/36

All: 5857.342+/-0.695 χ^2/NDF : 7687278.1/70

diff_bpm11X_mean vs Slug, Sign Corrected



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

Left Out: 0.723 $\pm$ 3.298 χ^2/NDF : 27.3/17

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

Left In: 1.534 $\pm$ 3.394 χ^2/NDF : 9.7/16

Left: 1.117 $\pm$ 2.365 χ^2/NDF : 37.0/34

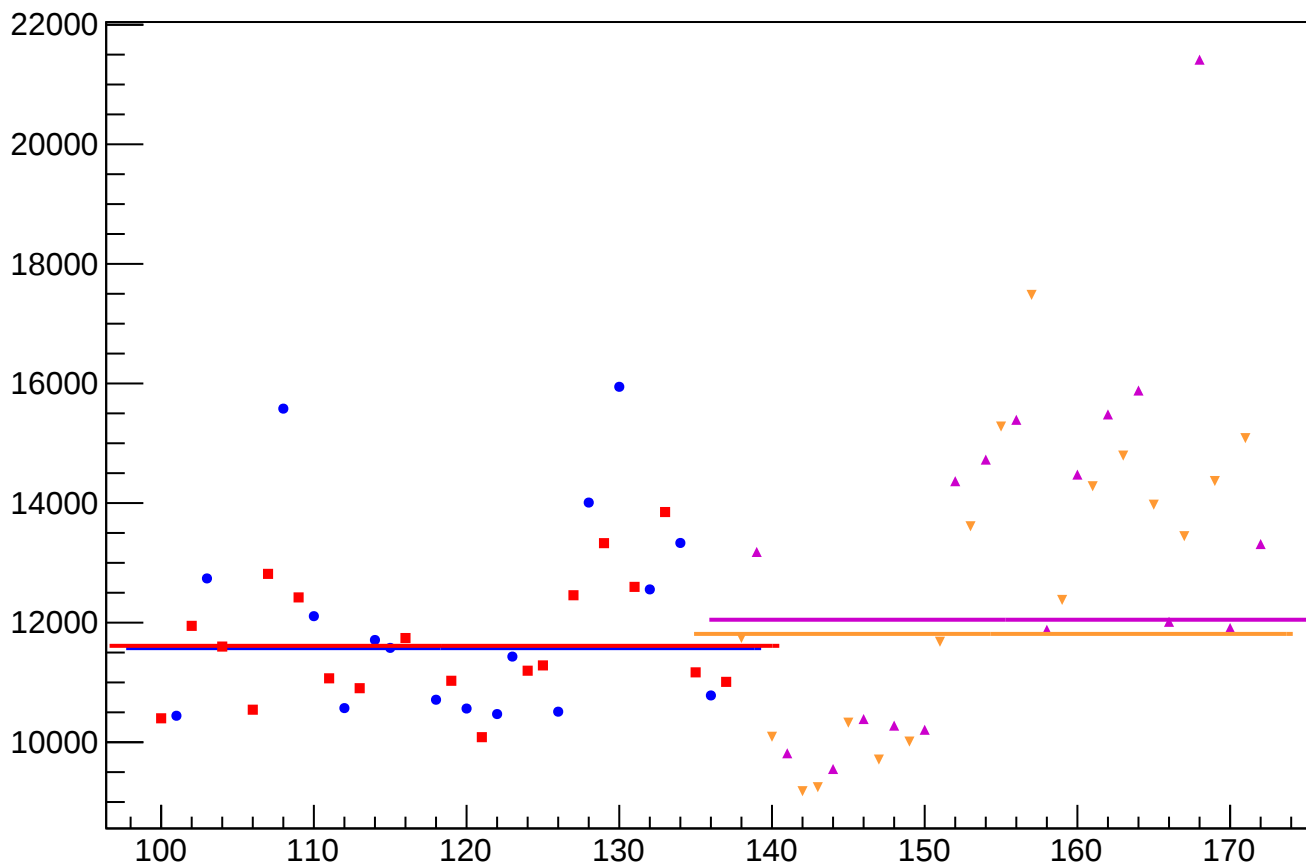
Right: -4.061 $\pm$ 3.140 χ^2/NDF : 37.5/35

In: -1.454 $\pm$ 2.713 χ^2/NDF : 28.7/33

Out: -0.101 $\pm$ 2.633 χ^2/NDF : 47.4/36

All: -0.757 $\pm$ 1.889 χ^2/NDF : 76.3/70

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 11811.651+/-2.332 χ^2/NDF : 925530.4/17

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

Left In: 12048.586+/-2.400 χ^2/NDF : 1049091.1/16

Left: 11926.700+/-1.673 χ^2/NDF : 1979634.5/34

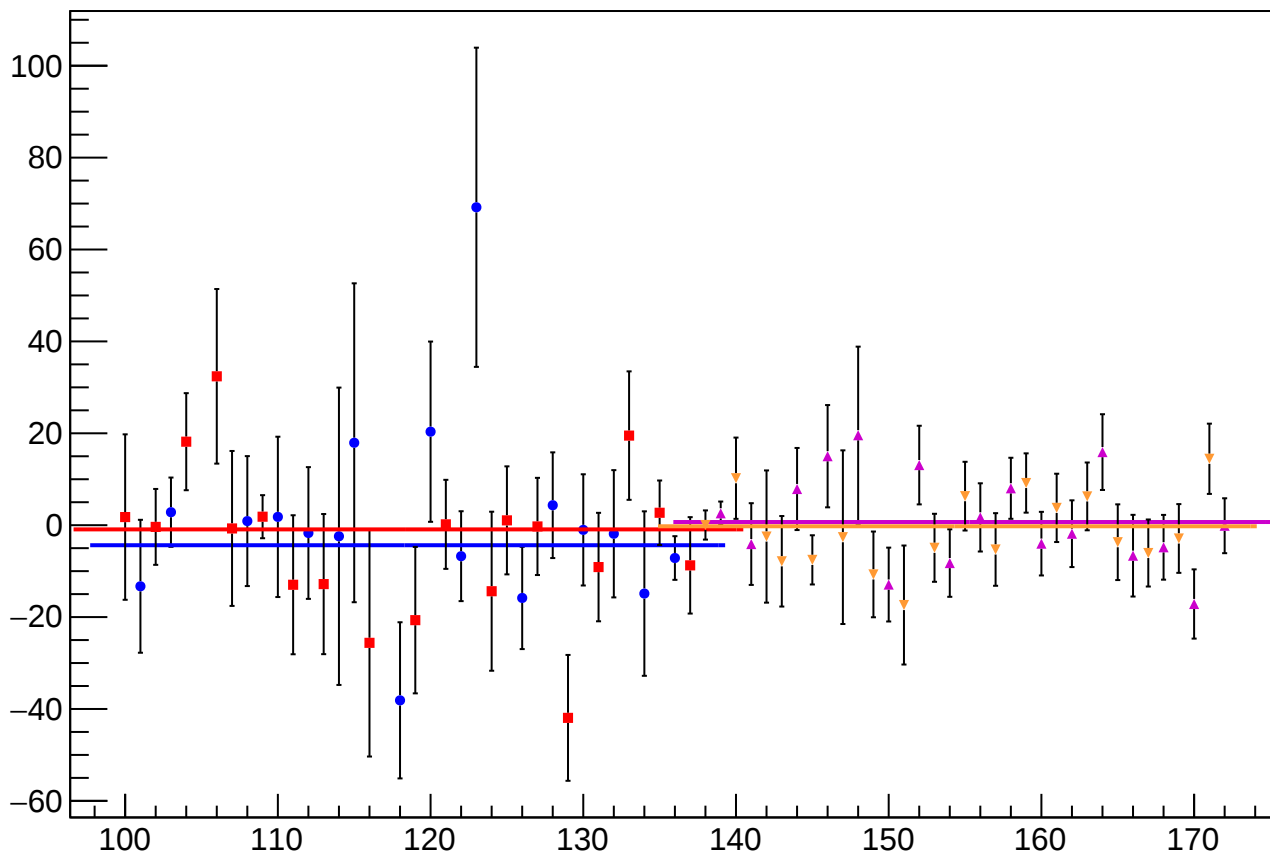
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11876.927+/-1.918 χ^2/NDF : 1301982.6/33

Out: 11739.338+/-1.862 χ^2/NDF : 1022490.6/36

All: 11806.078+/-1.336 χ^2/NDF : 2327122.7/71

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: -0.235 ± 1.659 χ^2/NDF : 16.3/17

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

Left In: 0.690 ± 1.562 χ^2/NDF : 22.7/16

Left: 0.255 ± 1.137 χ^2/NDF : 39.2/34

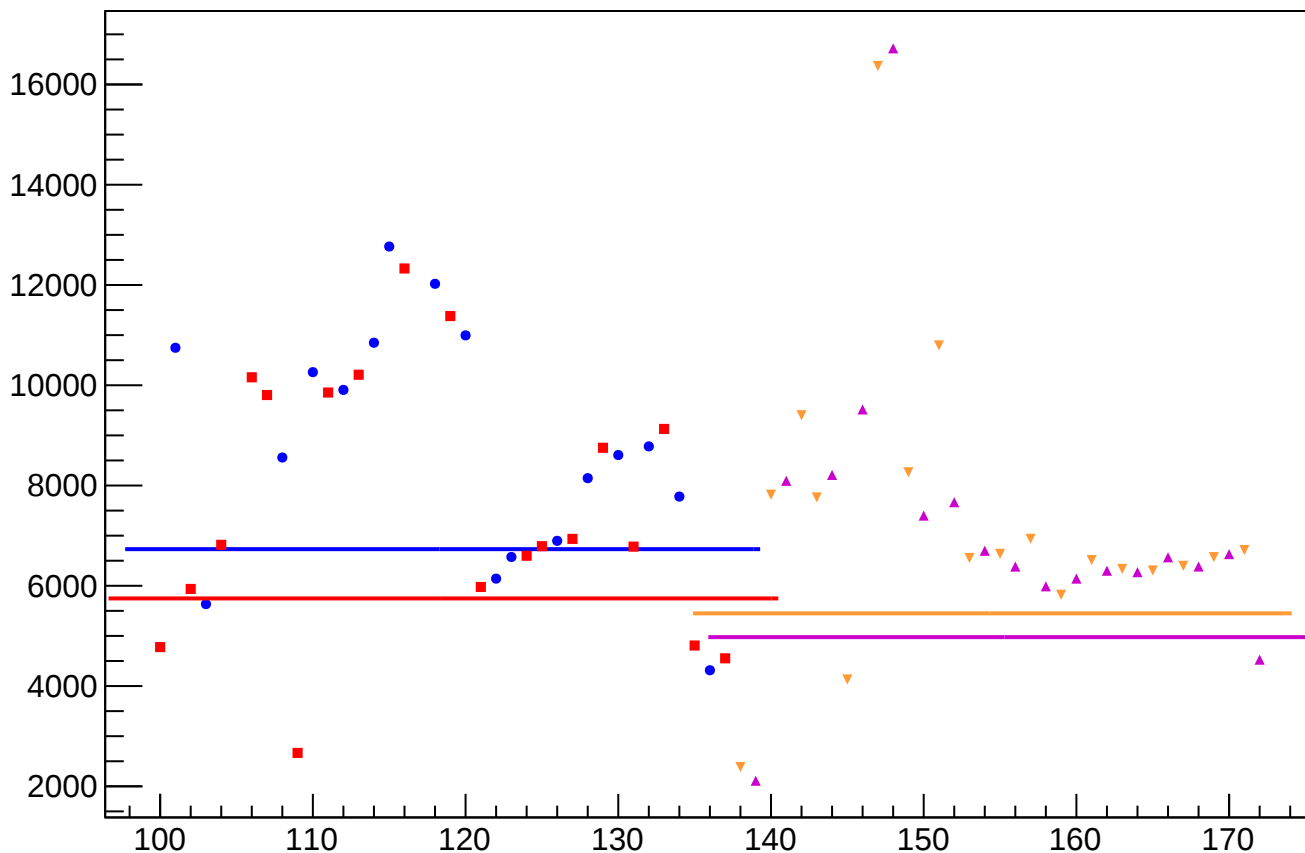
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: -0.525 ± 1.361 χ^2/NDF : 39.7/33

Out: -0.452 ± 1.370 χ^2/NDF : 39.9/36

All: -0.488 ± 0.966 χ^2/NDF : 79.6/70

diff_bpm11Y_rms vs Slug, Sign Corrected



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

Left Out: 5450.088 $\pm$ 1.173 χ^2 /NDF:3973985.1/17

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

Left In: 4975.619 $\pm$ 1.105 χ^2 /NDF:5117631.4/16

Left: 5198.558 $\pm$ 0.804 χ^2 /NDF: 9178313.0/34

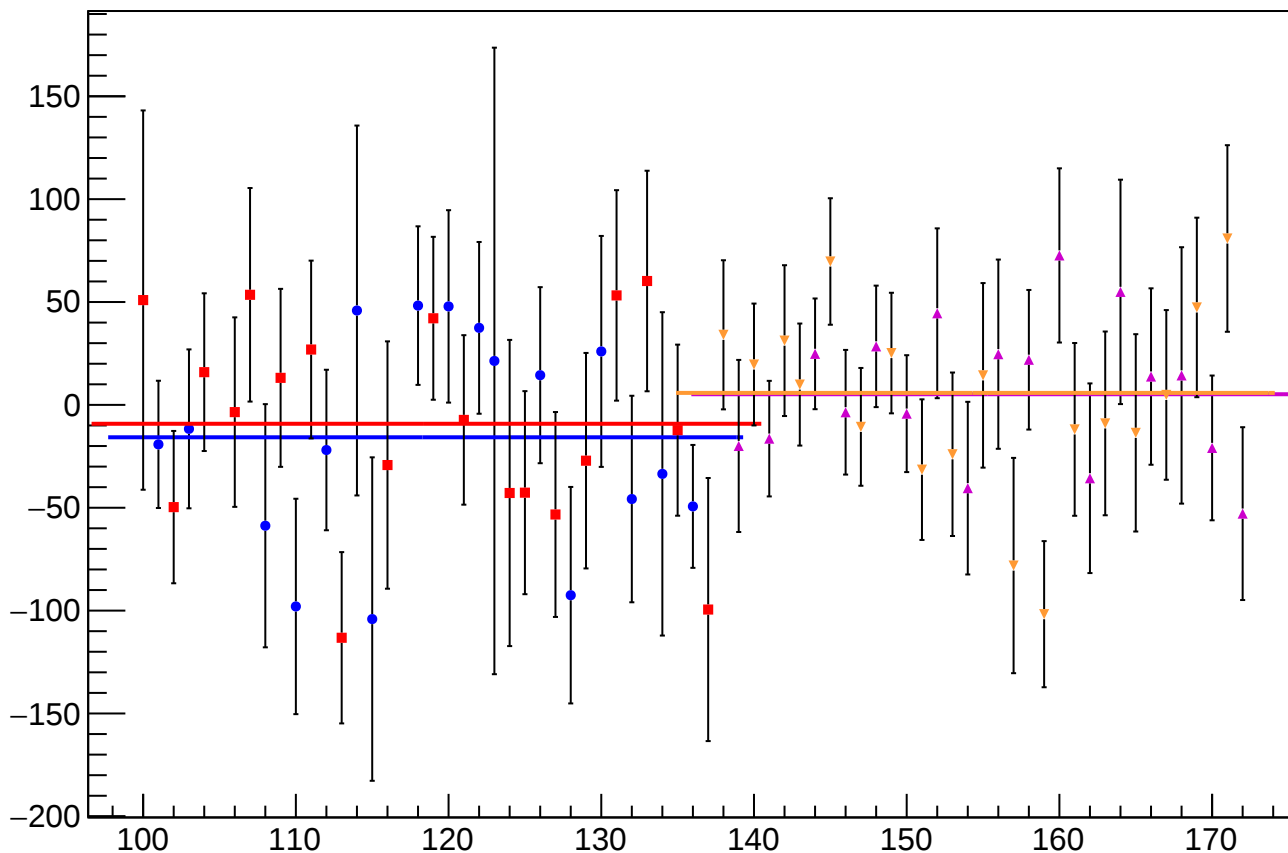
Right: 6173.310 $\pm$ 1.292 χ^2 /NDF: 3749669.1/35

In: 5397.658 $\pm$ 0.963 χ^2 /NDF:7169974.7/33

Out: 5544.915 $\pm$ 0.968 χ^2 /NDF:6156719.3/36

All: 5470.845 $\pm$ 0.683 χ^2 /NDF: 13338323.7/71

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -15.751 ± 11.207 χ^2/NDF : 15.9/16

Left Out: 5.828 ± 8.616 χ^2/NDF : 24.0/17

Right Out: -9.179 ± 10.889 χ^2/NDF : 19.3/18

Left In: 5.175 ± 8.862 χ^2/NDF : 11.5/16

Left: 5.511 ± 6.178 χ^2/NDF : 35.5/34

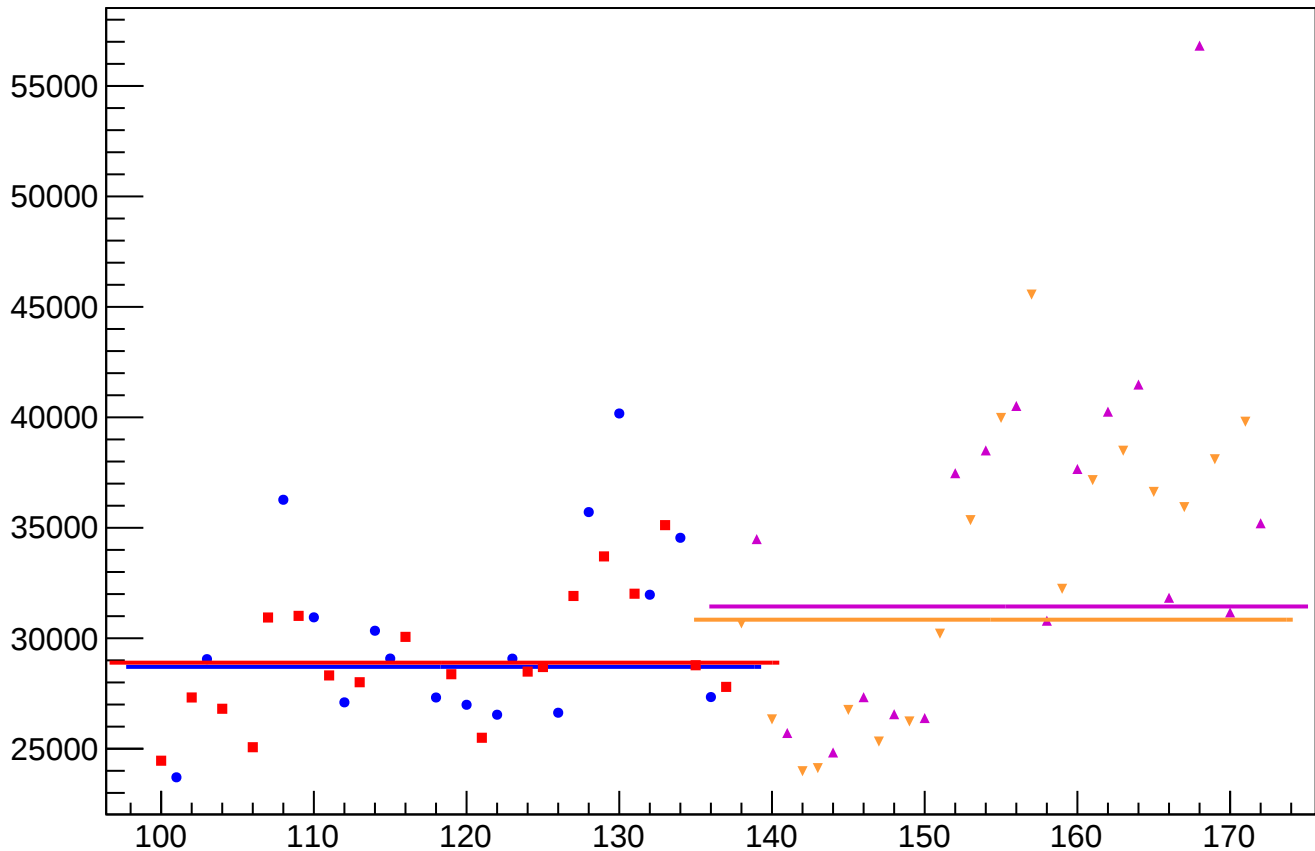
Right: -12.370 ± 7.810 χ^2/NDF : 35.4/35

In: -2.876 ± 6.952 χ^2/NDF : 29.6/33

Out: 0.050 ± 6.756 χ^2/NDF : 44.5/36

All: -1.371 ± 4.845 χ^2/NDF : 74.1/70

diff_bpm12X_rms vs Slug, Sign Corrected



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

Left Out: 30841.075+/-6.092 χ^2 /NDF: 945696.1/17

Right Out: 28895.535+/-7.700 χ^2 /NDF: 111212.6/18

Left In: 31438.668+/-6.267 χ^2 /NDF: 1079443.7/16

Left: 31131.434+/-4.368 χ^2 /NDF: 2029815.0/34

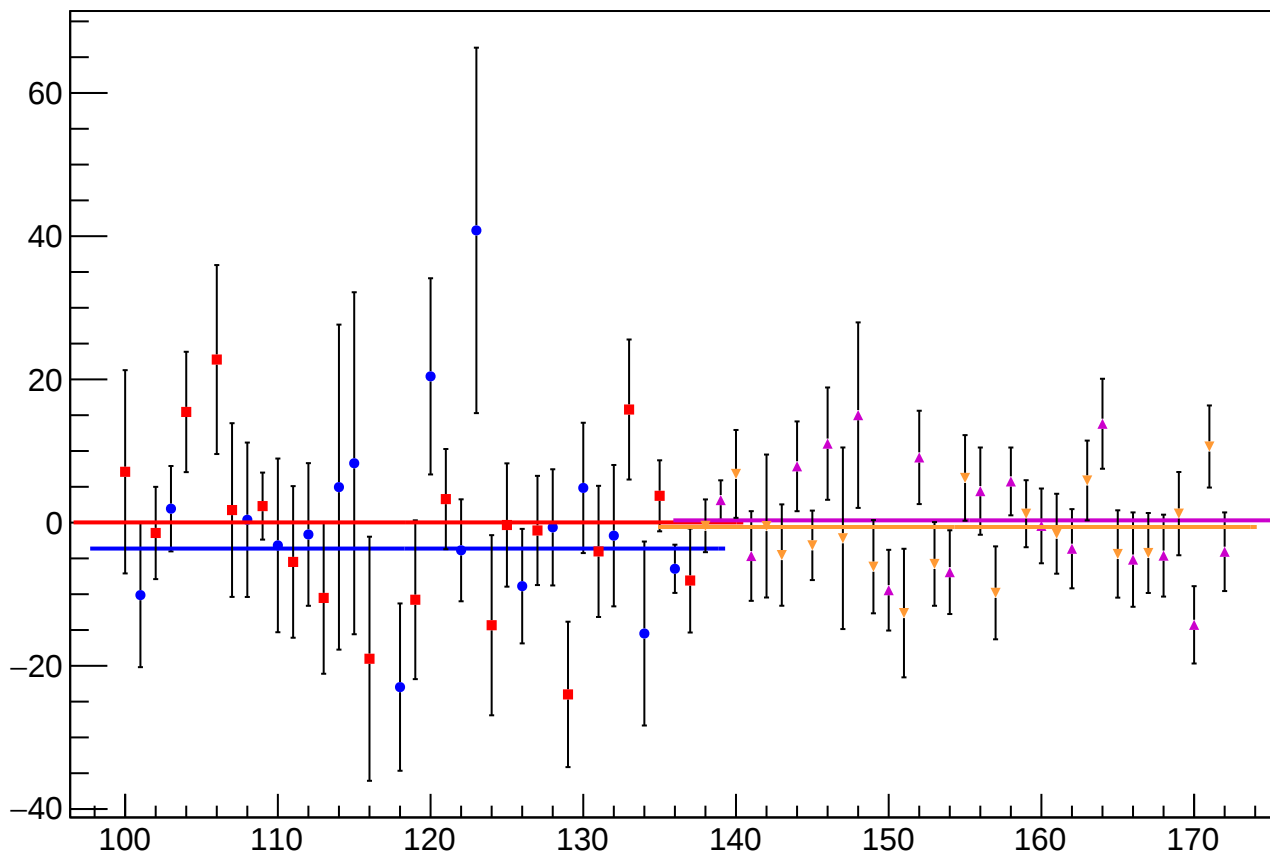
Right: 28803.288+/-5.522 χ^2 /NDF: 362500.7/35

In: 30387.178+/-4.915 χ^2 /NDF: 1403616.6/33

Out: 30092.055+/-4.778 χ^2 /NDF: 1096173.3/36

All: 30235.417+/-3.426 χ^2 /NDF: 2501643.5/71

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.625 ± 2.006 $\chi^2/\text{NDF}: 13.7/16$

Left Out: -0.614 ± 1.380 $\chi^2/\text{NDF}: 15.0/17$

Right Out: 0.027 ± 1.890 $\chi^2/\text{NDF}: 22.1/18$

Left In: 0.314 ± 1.318 $\chi^2/\text{NDF}: 28.9/16$

Left: -0.128 ± 0.953 $\chi^2/\text{NDF}: 44.1/34$

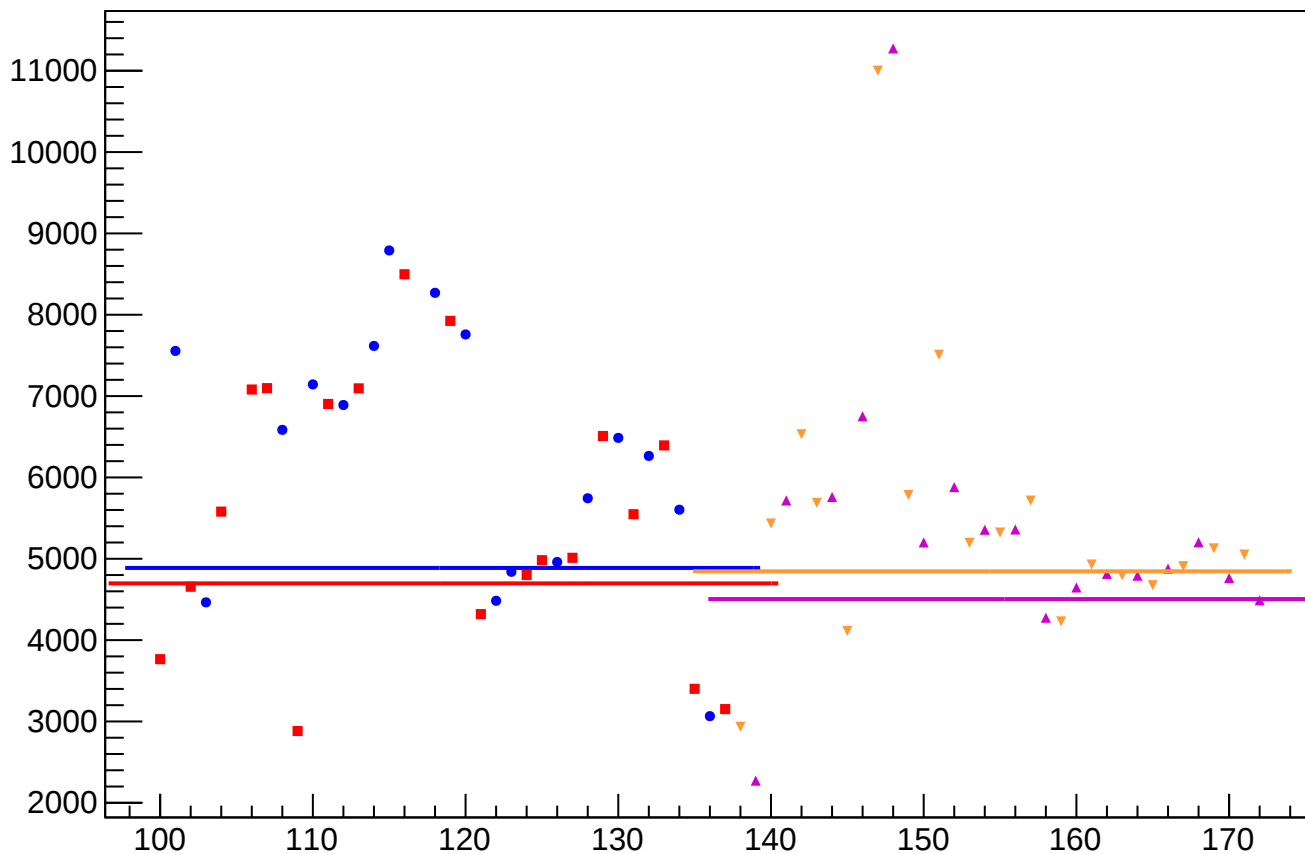
Right: -1.690 ± 1.376 $\chi^2/\text{NDF}: 37.6/35$

In: -0.873 ± 1.101 $\chi^2/\text{NDF}: 45.3/33$

Out: -0.391 ± 1.115 $\chi^2/\text{NDF}: 37.2/36$

All: -0.635 ± 0.783 $\chi^2/\text{NDF}: 82.6/70$

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4845.932 ± 0.976 $\chi^2/\text{NDF}: 1476492.8/17$

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

Left In: 4504.726 ± 0.932 $\chi^2/\text{NDF}: 2431652.9/16$

Left: 4667.439 ± 0.674 $\chi^2/\text{NDF}: 3972082.6/34$

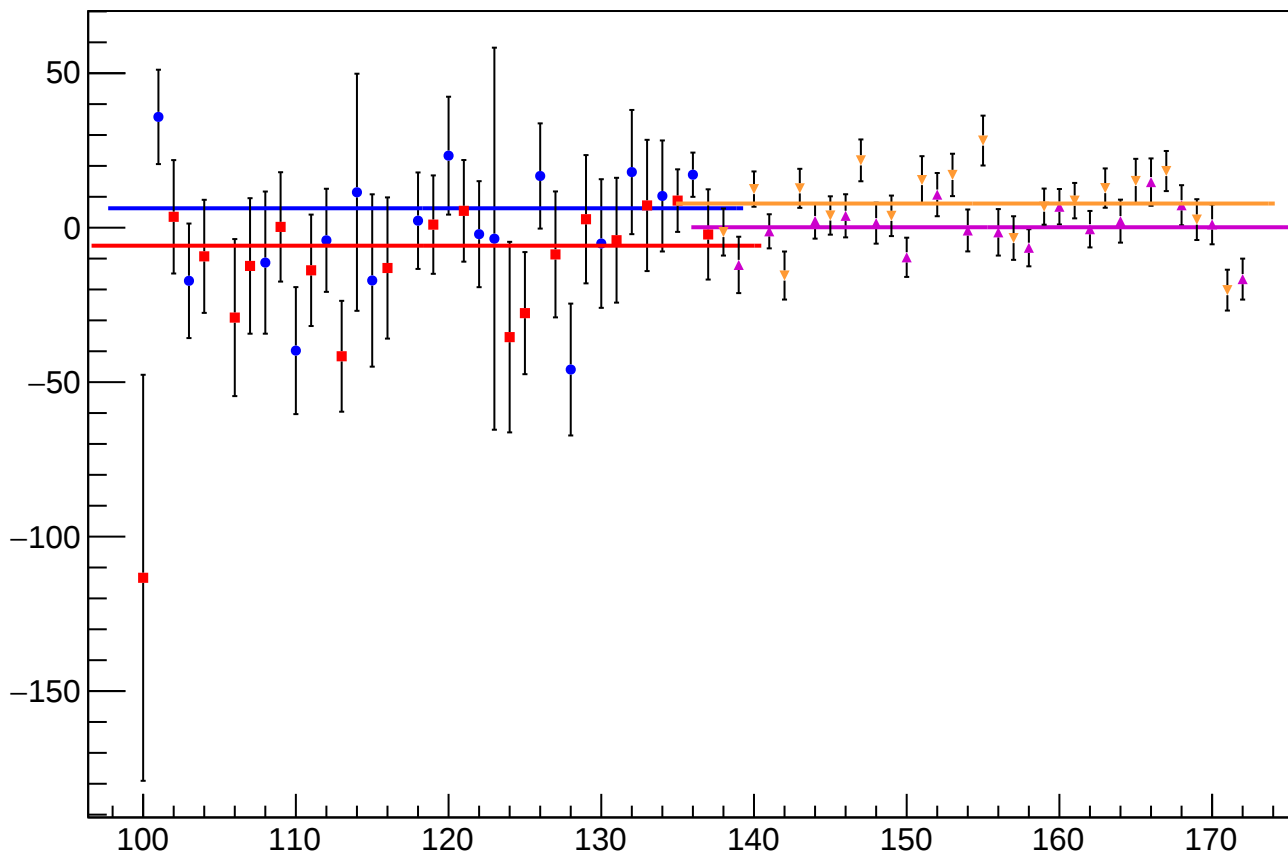
Right: 4786.972 ± 0.973 $\chi^2/\text{NDF}: 2731901.7/35$

In: 4620.124 ± 0.779 $\chi^2/\text{NDF}: 3891820.9/33$

Out: 4794.381 ± 0.788 $\chi^2/\text{NDF}: 2797634.6/36$

All: 4706.212 ± 0.554 $\chi^2/\text{NDF}: 6714187.4/70$

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 7.818 $\pm$ 1.567 χ^2/NDF : 51.4/17

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

Left In: 0.142 $\pm$ 1.584 χ^2/NDF : 20.9/16

Left: 4.022 $\pm$ 1.114 χ^2/NDF : 84.1/34

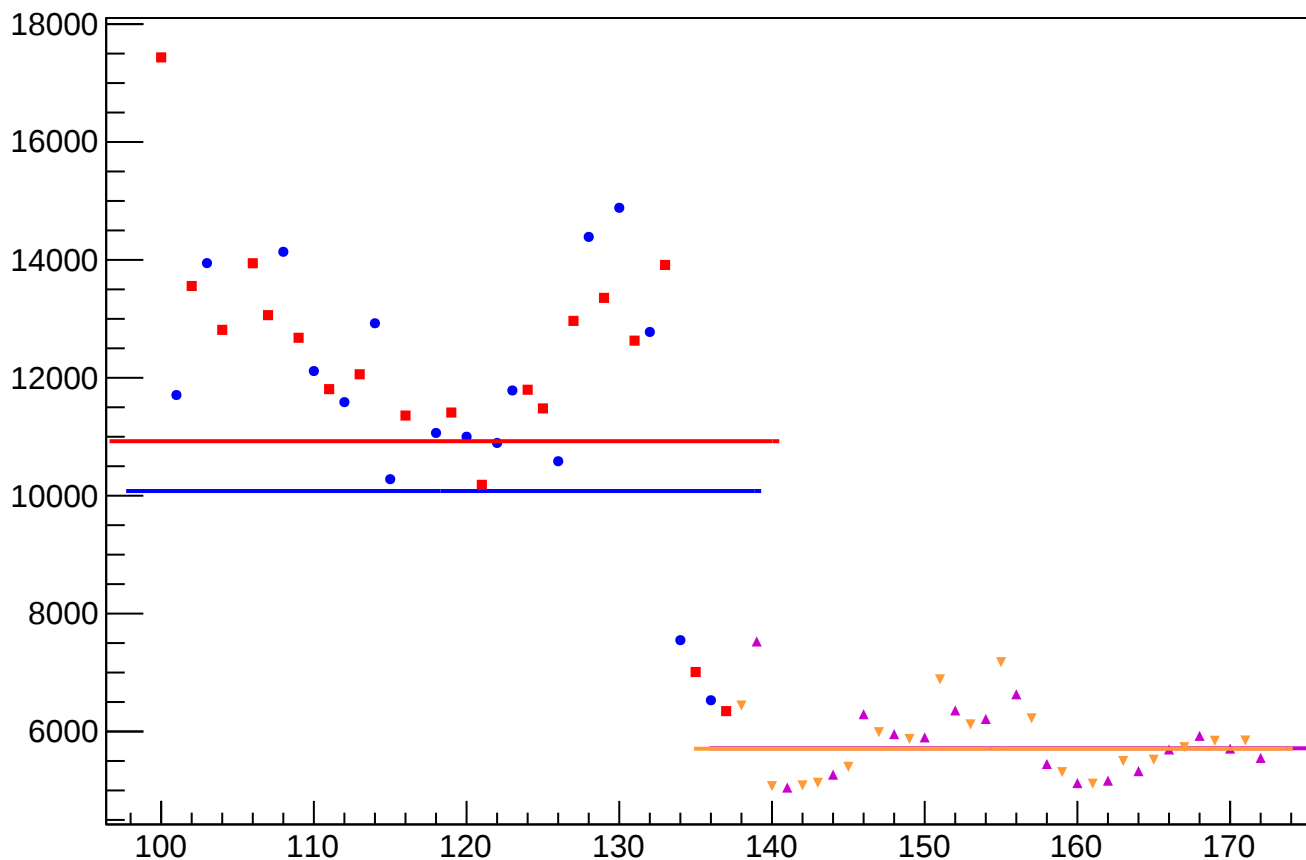
Right: 0.454 $\pm$ 2.927 χ^2/NDF : 40.6/35

In: 0.952 $\pm$ 1.476 χ^2/NDF : 45.5/33

Out: 6.164 $\pm$ 1.469 χ^2/NDF : 74.3/36

All: 3.570 $\pm$ 1.041 χ^2/NDF : 126.1/70

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5708.135 $\pm$ 1.108 χ^2 /NDF:248564.7/17

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

Left In: 5715.103 $\pm$ 1.120 χ^2 /NDF:247451.9/16

Left: 5711.581 $\pm$ 0.788 χ^2 /NDF: 496036.2/34

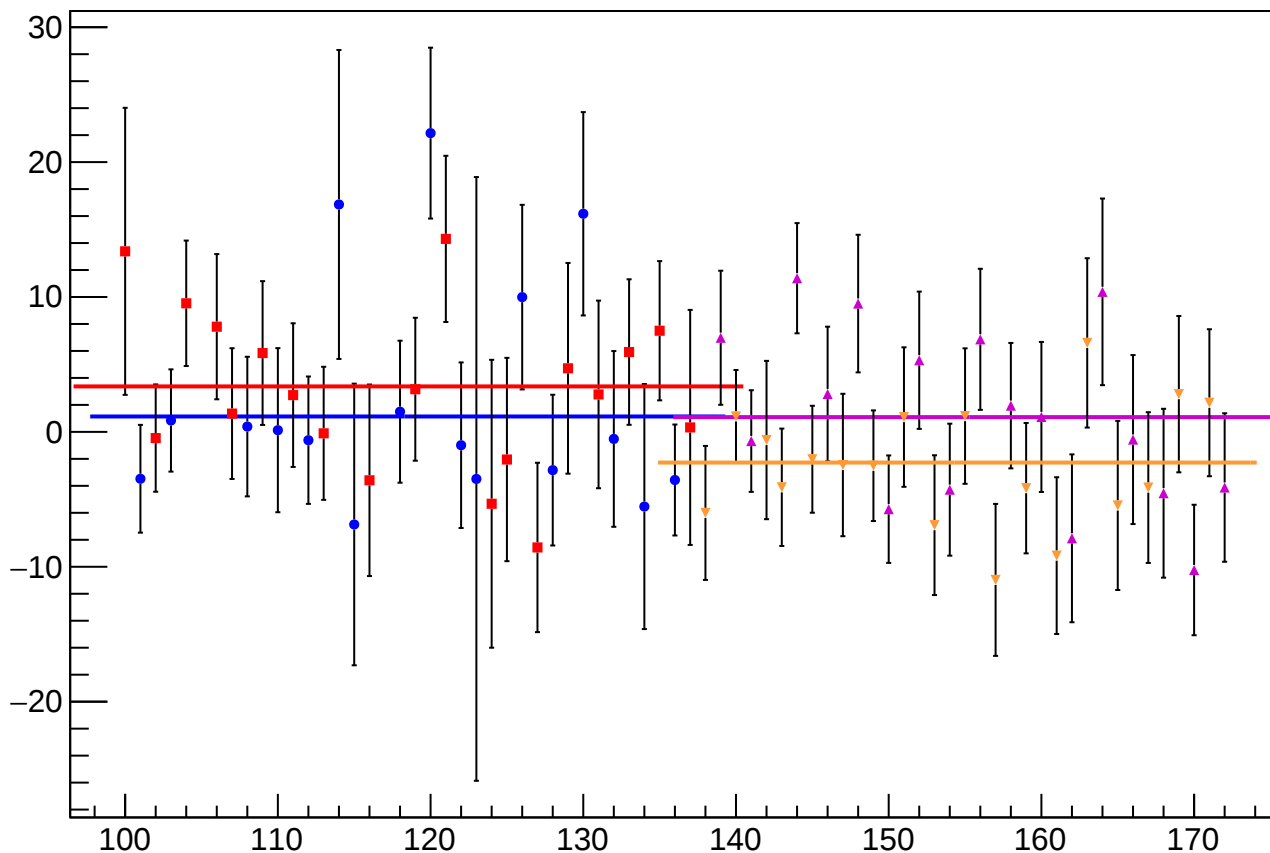
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

In: 6290.783 $\pm$ 1.044 χ^2 /NDF:3244308.9/33

Out: 6340.512 $\pm$ 1.039 χ^2 /NDF:3703667.2/36

All: 6315.766 $\pm$ 0.736 χ^2 /NDF: 6949116.7/70

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.274 ± 1.170 $\chi^2/\text{NDF}: 11.3/17$

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

Left In: 1.095 ± 1.211 $\chi^2/\text{NDF}: 28.1/16$

Left: -0.648 ± 0.842 $\chi^2/\text{NDF}: 43.3/34$

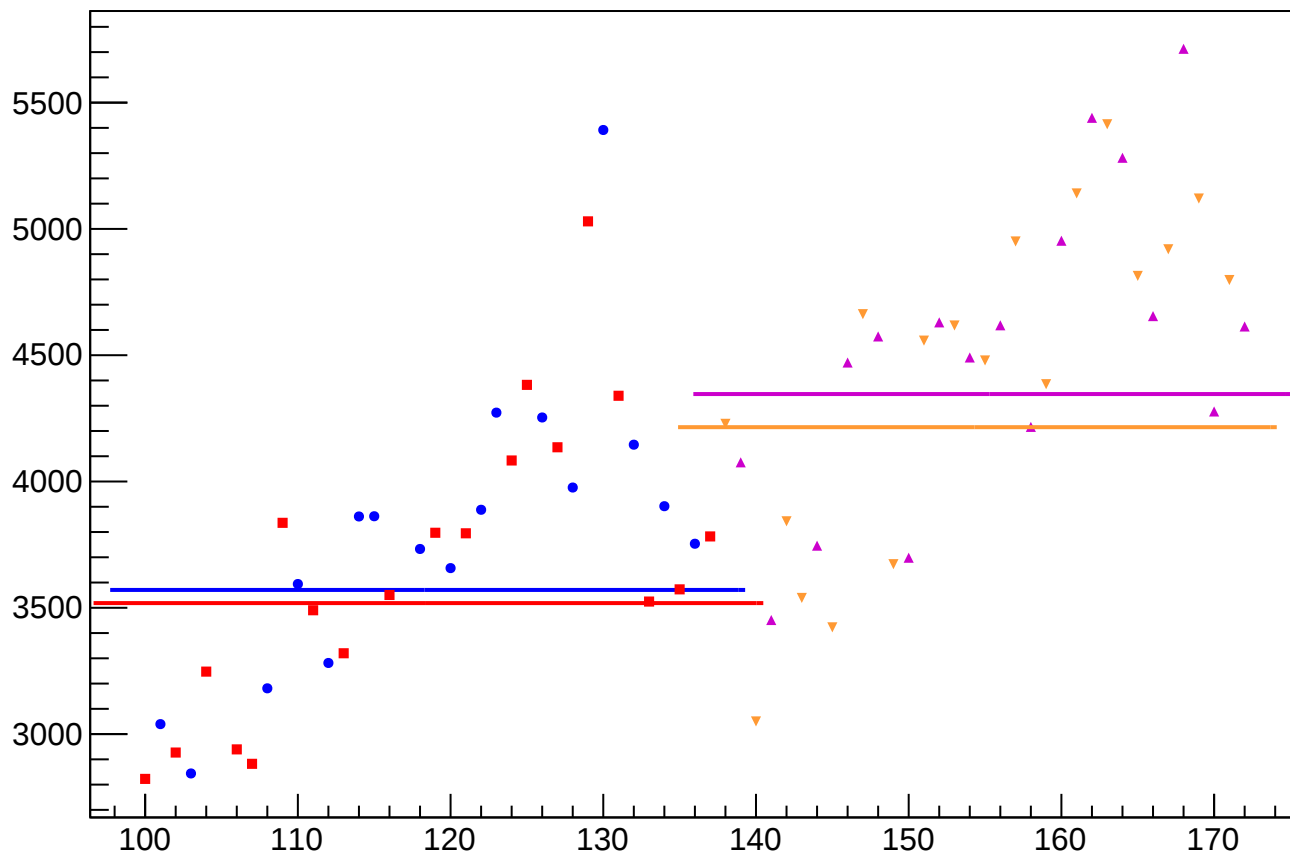
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.115 ± 0.915 $\chi^2/\text{NDF}: 51.3/33$

Out: 0.182 ± 0.879 $\chi^2/\text{NDF}: 36.5/36$

All: 0.631 ± 0.634 $\chi^2/\text{NDF}: 88.3/70$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4215.085+/-0.827 χ^2/NDF : 723184.2/17

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

Left In: 4346.244+/-0.856 χ^2/NDF : 462578.6/16

Left: 4278.402+/-0.595 χ^2/NDF : 1197893.2/34

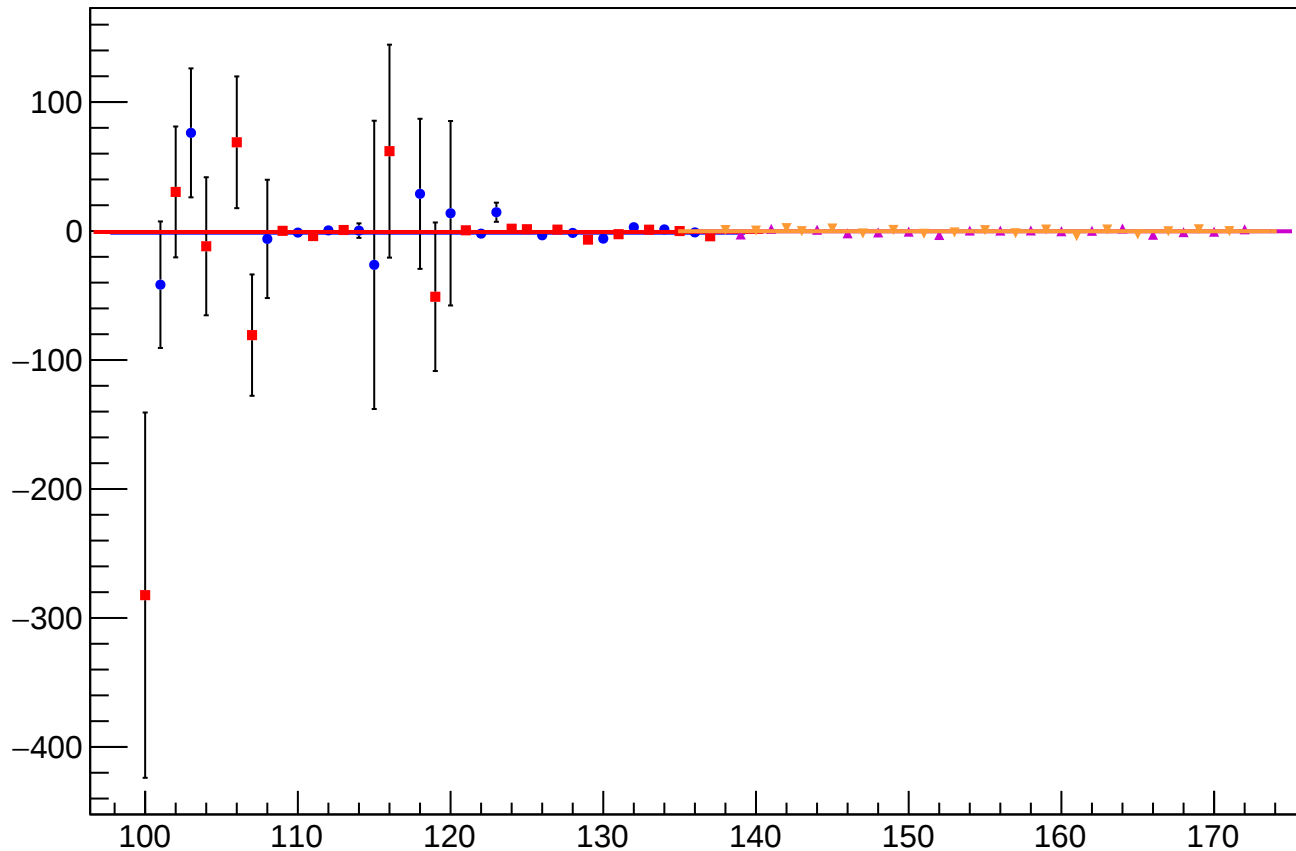
Right: 3543.480+/-0.682 χ^2/NDF : 604252.9/35

In: 4012.947+/-0.647 χ^2/NDF : 1124530.0/33

Out: 3912.015+/-0.622 χ^2/NDF : 1324729.9/36

All: 3960.500+/-0.448 χ^2/NDF : 2461915.2/70

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.160 ± 0.288 χ^2/NDF : 31.7/17

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

Left In: -0.199 ± 0.291 χ^2/NDF : 23.9/16

Left: -0.179 ± 0.205 χ^2/NDF : 55.6/34

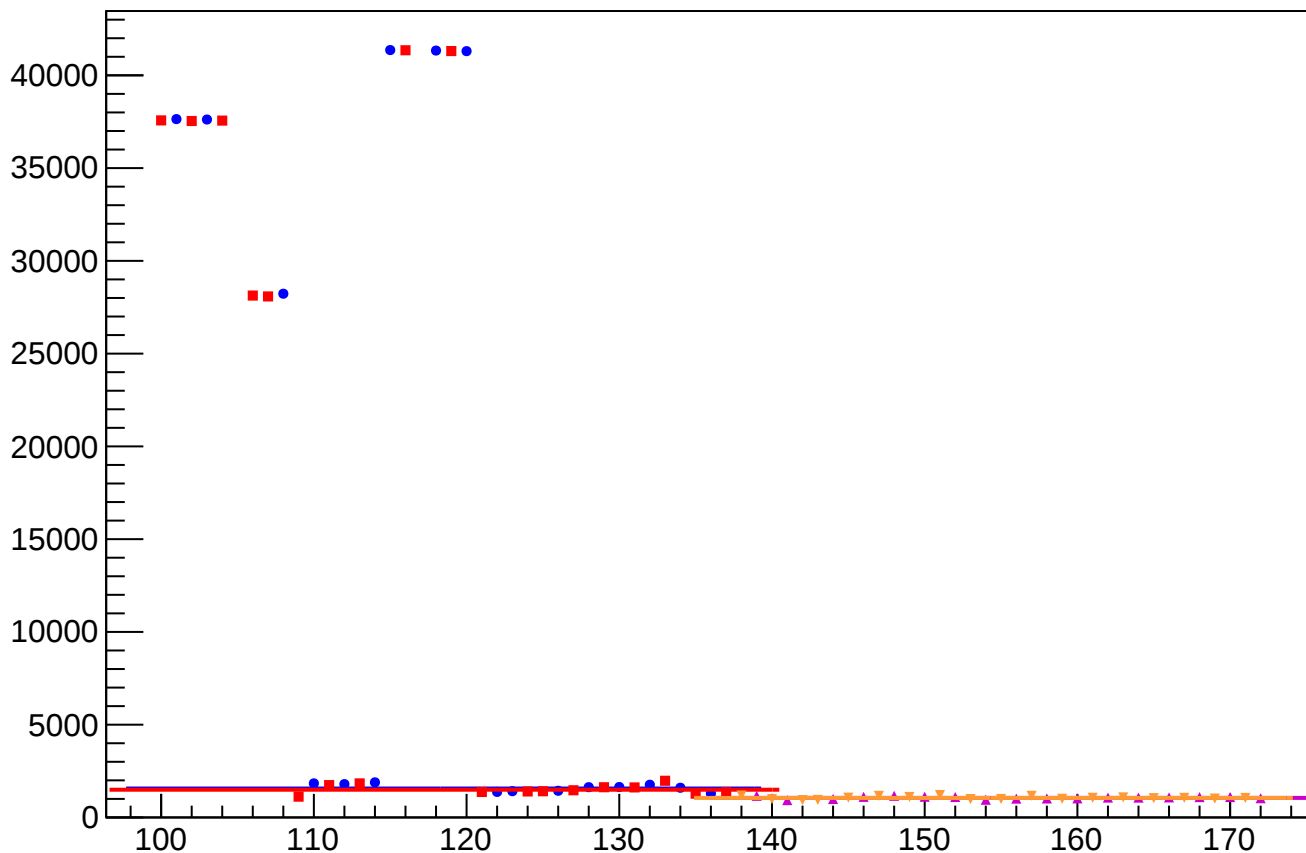
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.339 ± 0.271 χ^2/NDF : 41.9/33

Out: -0.241 ± 0.267 χ^2/NDF : 54.3/36

All: -0.289 ± 0.190 χ^2/NDF : 96.3/70

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1051.851 $\pm$ 0.203 χ^2 /NDF:131646.4/17

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

Left In: 1053.602 $\pm$ 0.206 χ^2 /NDF:105287.8/16

Left: 1052.716 $\pm$ 0.145 χ^2 /NDF: 236970.8/34

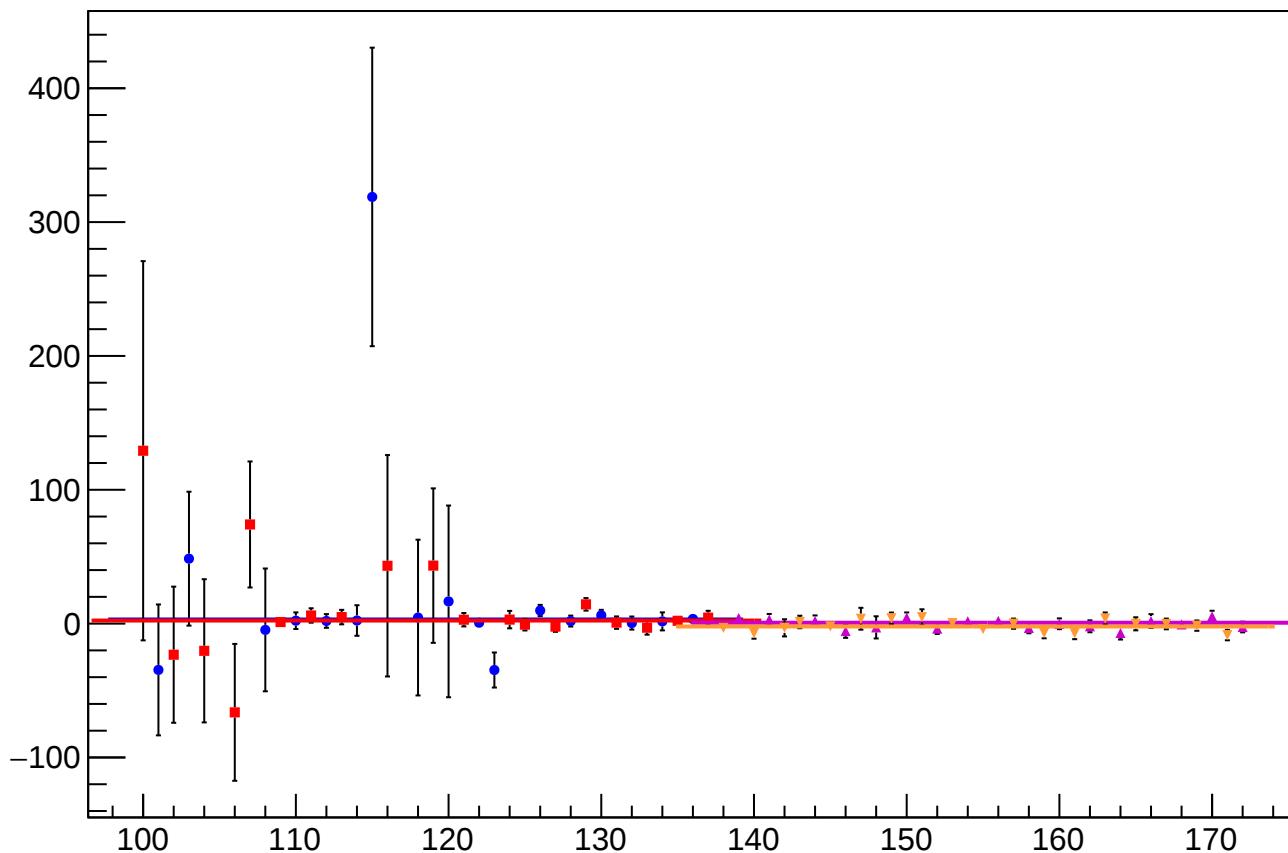
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

In: 1120.178 $\pm$ 0.192 χ^2 /NDF:5651989.0/33

Out: 1114.280 $\pm$ 0.189 χ^2 /NDF:5692144.9/36

All: 1117.177 $\pm$ 0.135 χ^2 /NDF: 11344614.3/71

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -2.149 ± 0.944 $\chi^2/\text{NDF}: 14.9/17$

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

Left In: 0.680 ± 0.962 $\chi^2/\text{NDF}: 12.7/16$

Left: -0.762 ± 0.674 $\chi^2/\text{NDF}: 32.0/34$

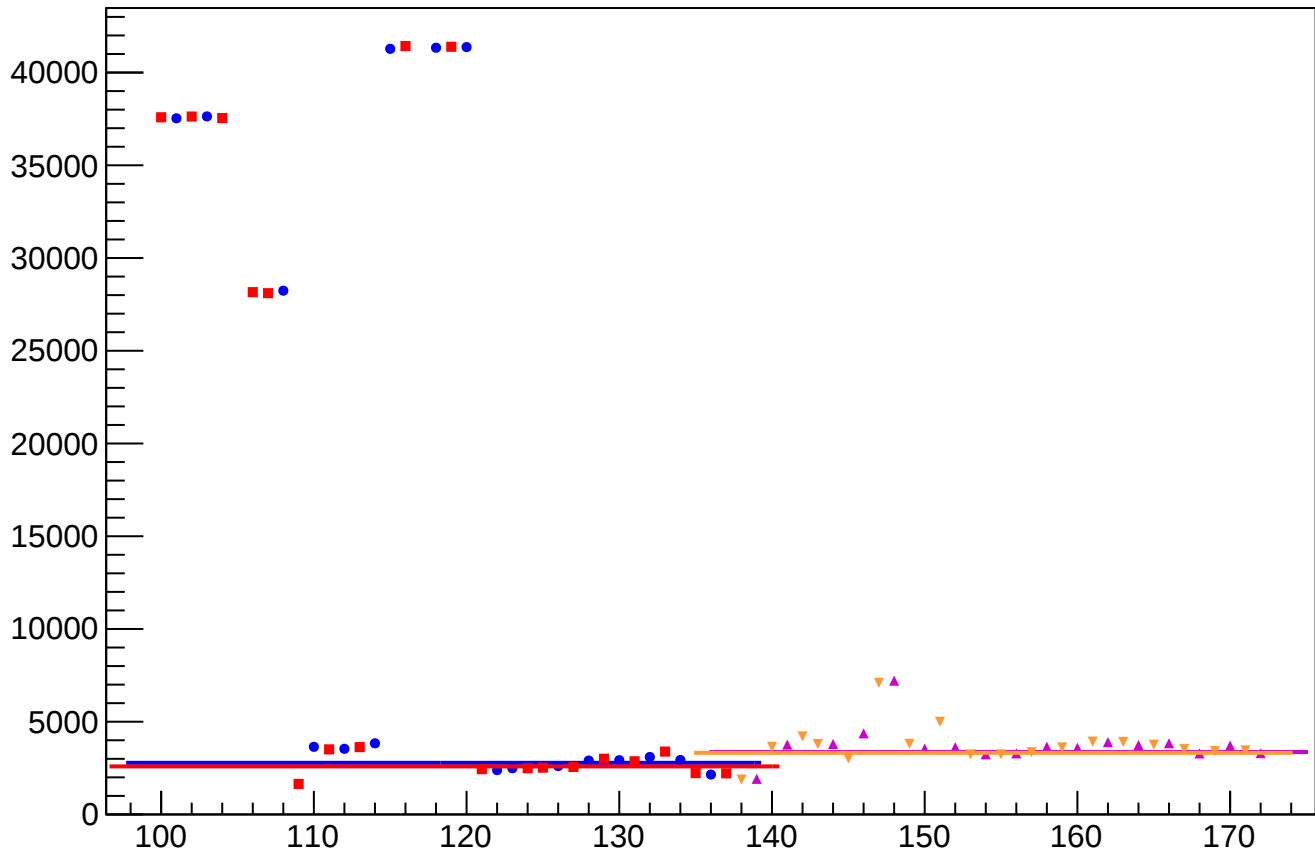
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.509 ± 0.778 $\chi^2/\text{NDF}: 36.7/33$

Out: -0.505 ± 0.750 $\chi^2/\text{NDF}: 40.1/36$

All: 0.464 ± 0.540 $\chi^2/\text{NDF}: 80.2/70$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3323.537+/-0.667 χ^2/NDF : 1620378.6/17

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

Left In: 3367.846+/-0.680 χ^2/NDF : 1403557.8/16

Left: 3345.263+/-0.477 χ^2/NDF : 3026097.2/34

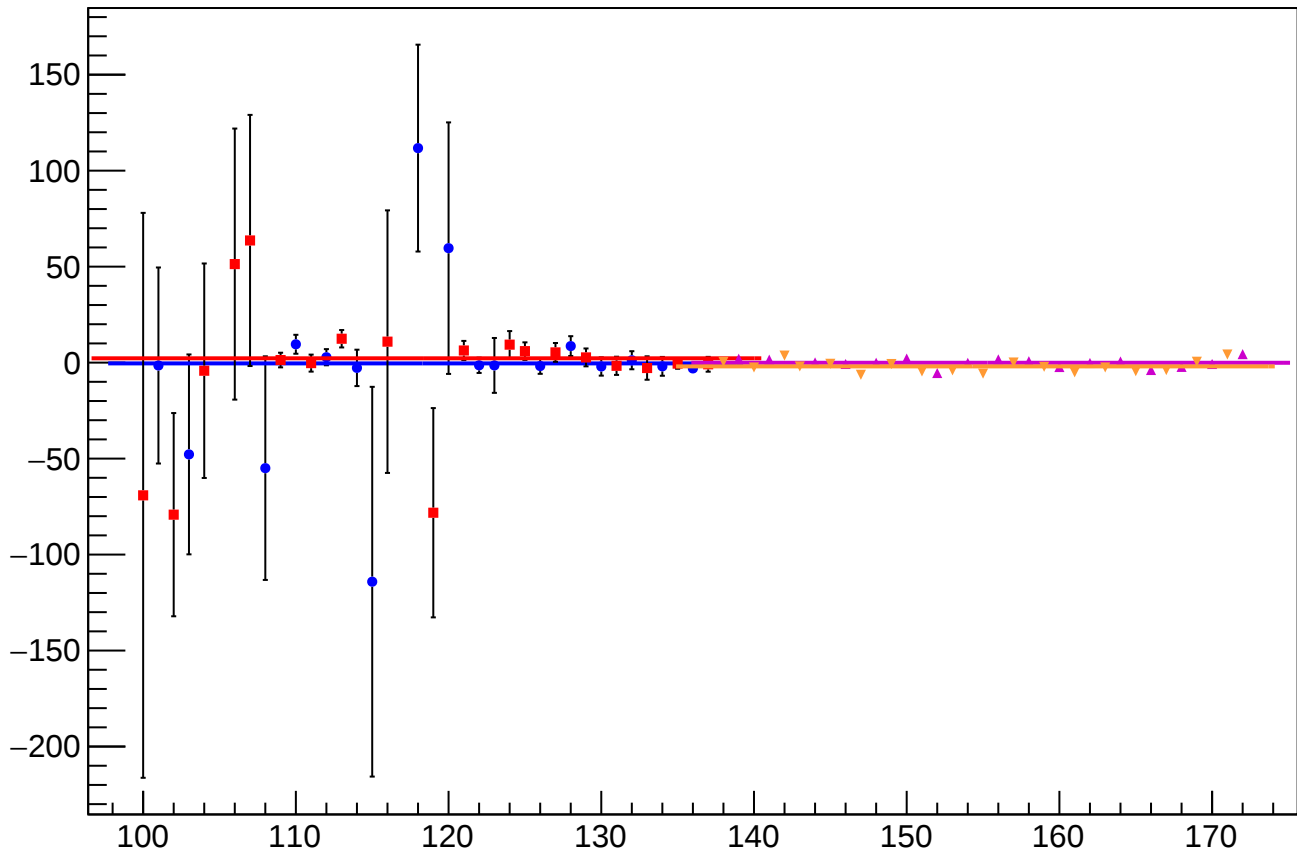
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3165.856+/-0.550 χ^2/NDF : 6235656.4/33

Out: 3053.340+/-0.530 χ^2/NDF : 6911294.6/36

All: 3107.505+/-0.382 χ^2/NDF : 13168628.5/70

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.968 ± 0.455 χ^2/NDF : 37.7/17

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

Left In: -0.080 ± 0.460 χ^2/NDF : 22.6/16

Left: -1.035 ± 0.324 χ^2/NDF : 68.9/34

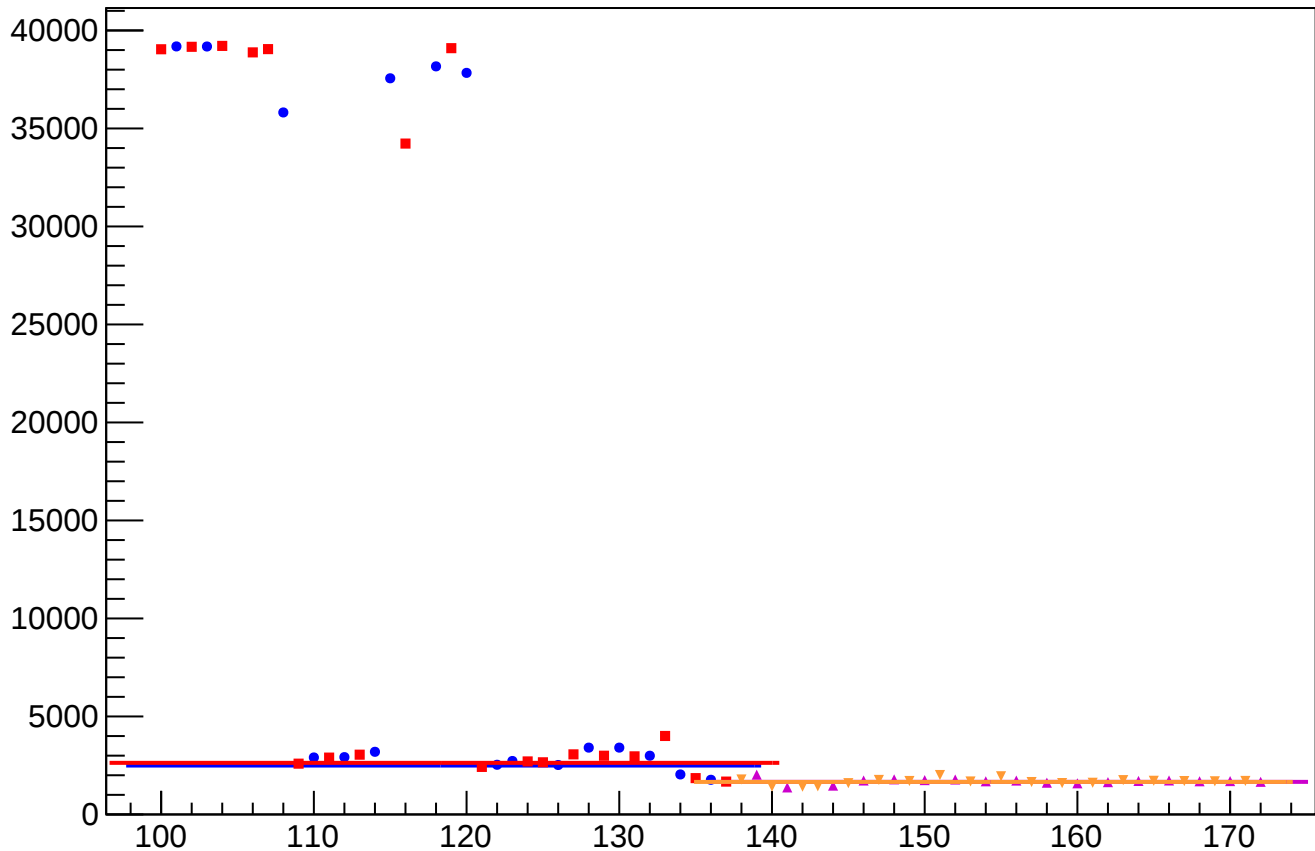
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: -0.121 ± 0.431 χ^2/NDF : 41.0/33

Out: -1.472 ± 0.427 χ^2/NDF : 65.3/36

All: -0.801 ± 0.303 χ^2/NDF : 111.2/70

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1659.649 $\pm$ 0.322 χ^2 /NDF: 214473.5/17

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

Left In: 1662.606 $\pm$ 0.326 χ^2 /NDF: 178195.1/16

Left: 1661.110 $\pm$ 0.229 χ^2 /NDF: 392710.3/34

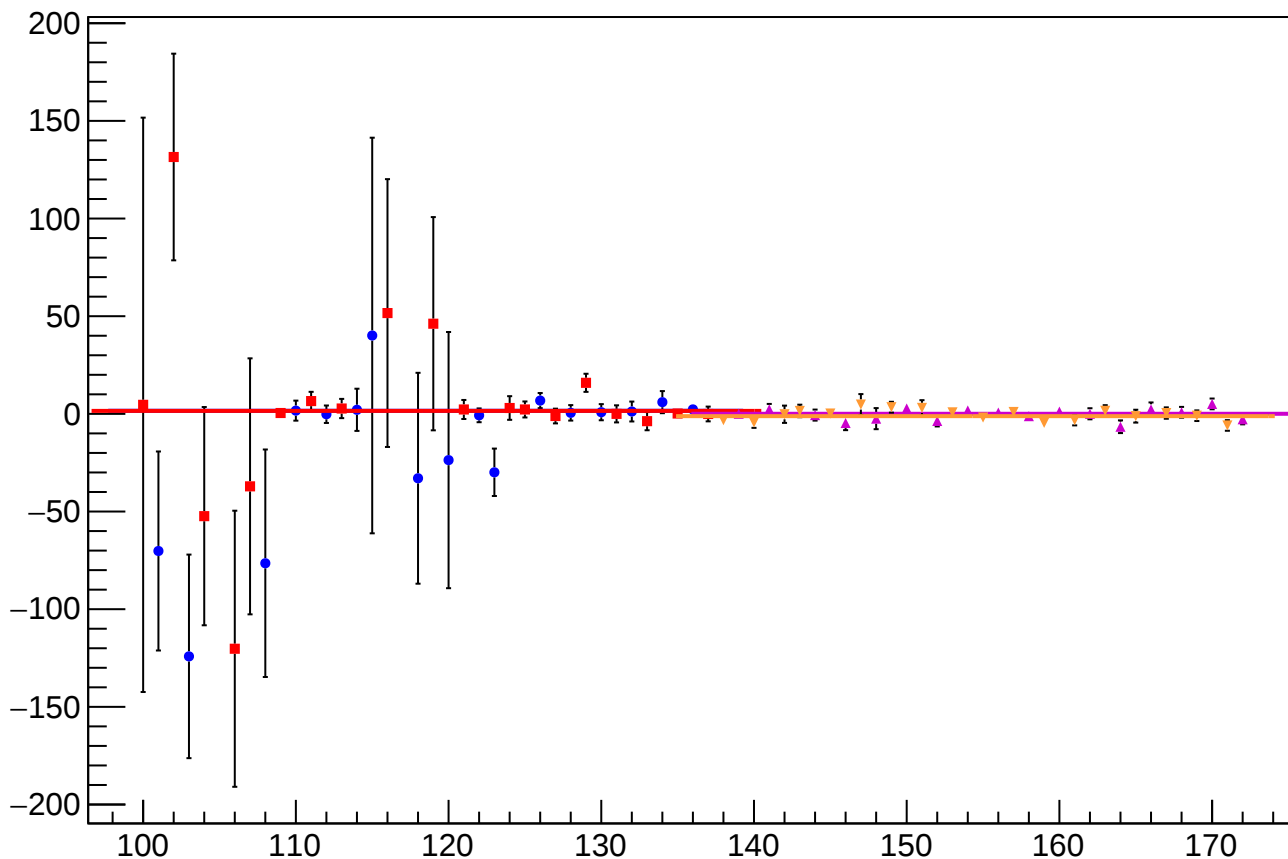
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1766.752 $\pm$ 0.304 χ^2 /NDF: 5879256.7/33

Out: 1774.208 $\pm$ 0.302 χ^2 /NDF: 6152538.1/36

All: 1770.508 $\pm$ 0.214 χ^2 /NDF: 12032096.9/70

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.172 ± 0.626 $\chi^2/\text{NDF}: 18.0/17$

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

Left In: 0.044 ± 0.618 $\chi^2/\text{NDF}: 15.7/16$

Left: -0.555 ± 0.440 $\chi^2/\text{NDF}: 35.6/34$

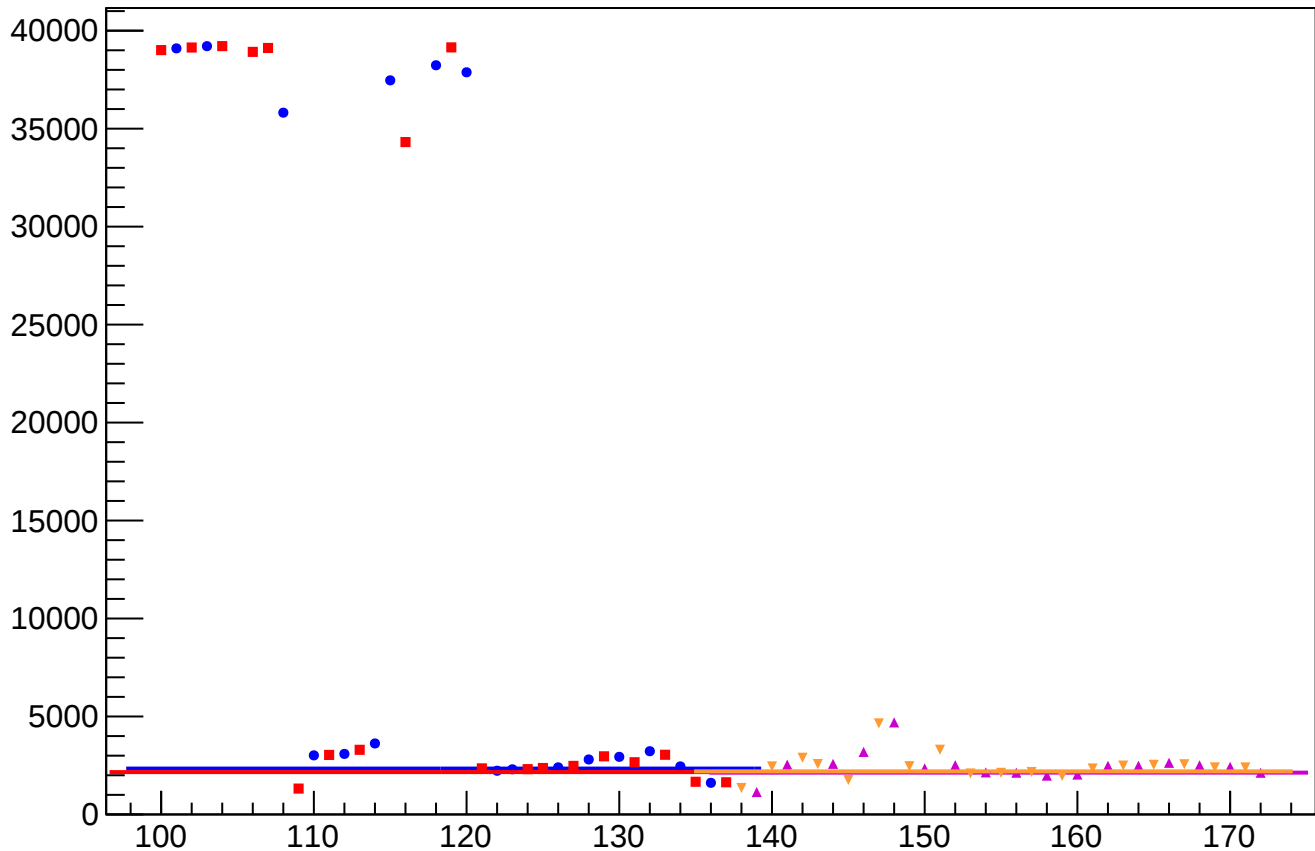
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.391 ± 0.543 $\chi^2/\text{NDF}: 37.5/33$

Out: -0.477 ± 0.539 $\chi^2/\text{NDF}: 47.8/36$

All: -0.046 ± 0.383 $\chi^2/\text{NDF}: 86.5/70$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2199.466+/-0.443 χ^2/NDF : 1402447.8/17

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

Left In: 2134.231+/-0.437 χ^2/NDF : 1943736.5/16

Left: 2166.393+/-0.311 χ^2/NDF : 3357187.5/34

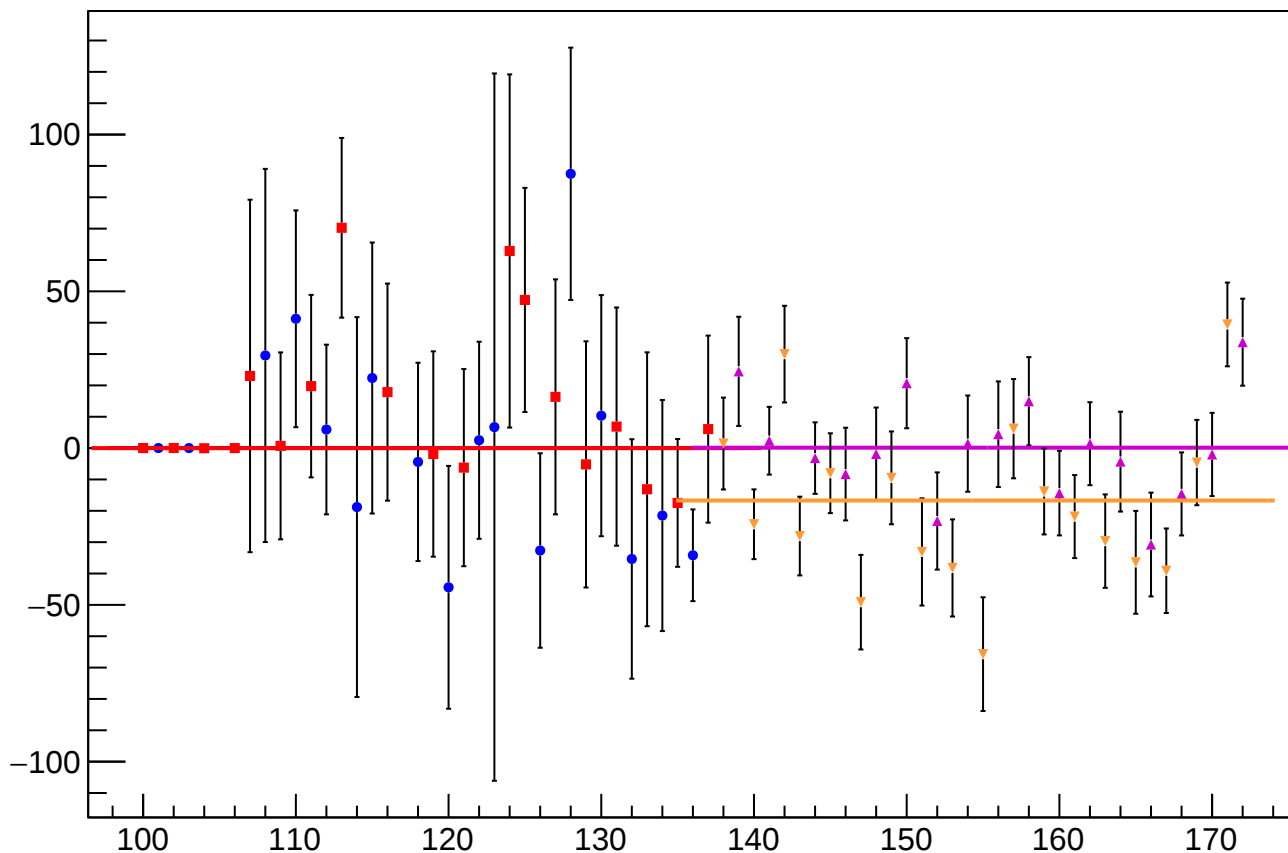
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2180.983+/-0.384 χ^2/NDF : 7001329.2/33

Out: 2189.586+/-0.381 χ^2/NDF : 6703428.0/36

All: 2185.315+/-0.271 χ^2/NDF : 13705009.8/77

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -16.709 ± 3.356 $\chi^2/\text{NDF}: 53.2/17$

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

Left In: 0.132 ± 3.413 $\chi^2/\text{NDF}: 19.8/16$

Left: -8.430 ± 2.393 $\chi^2/\text{NDF}: 85.4/34$

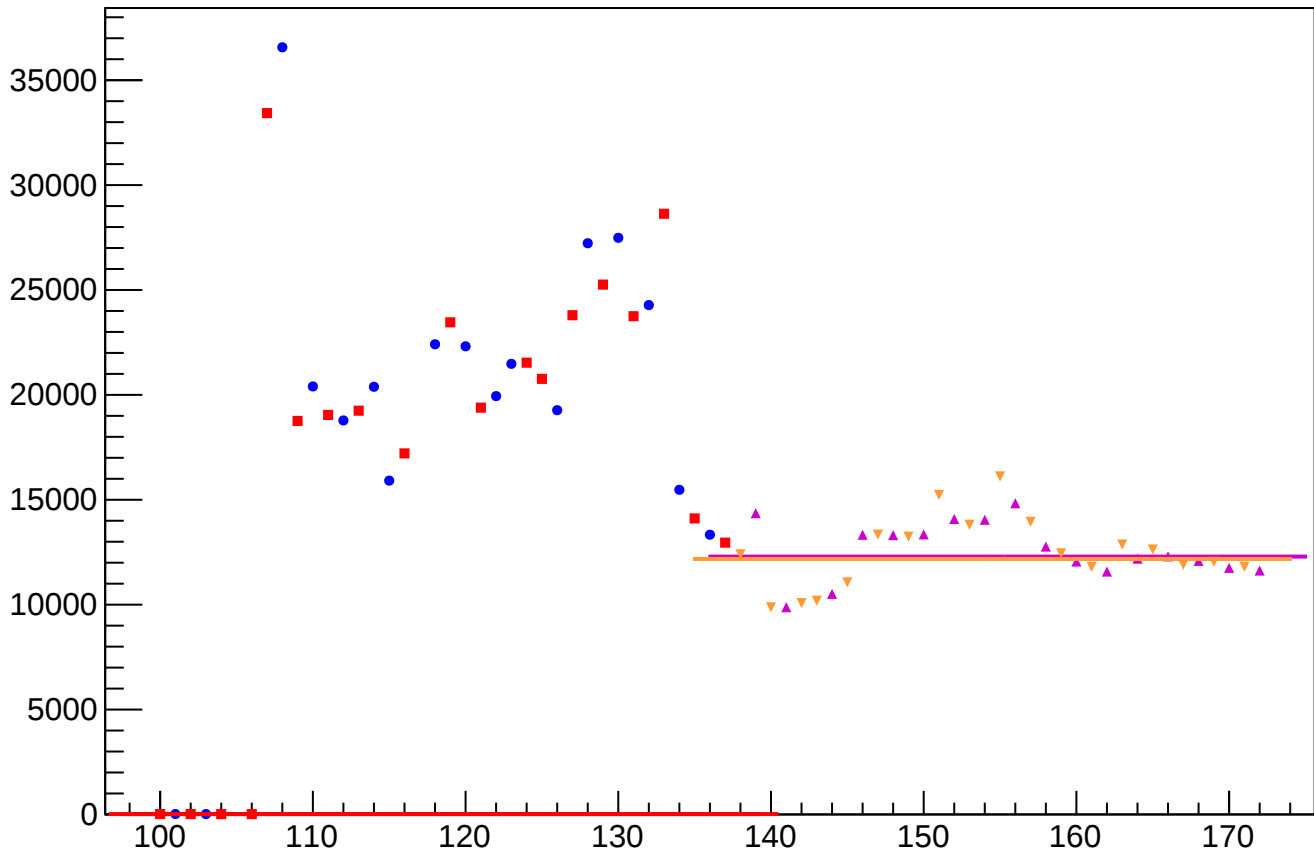
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.5/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 35.9/33$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 93.8/36$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 130.3/70$

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 12178.577 $\pm$ 2.373 χ^2 /NDF: 427127.2/17

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

Left In: 12291.642 $\pm$ 2.413 χ^2 /NDF: 322383.3/16

Left: 12234.155 $\pm$ 1.692 χ^2 /NDF: 750626.7/34

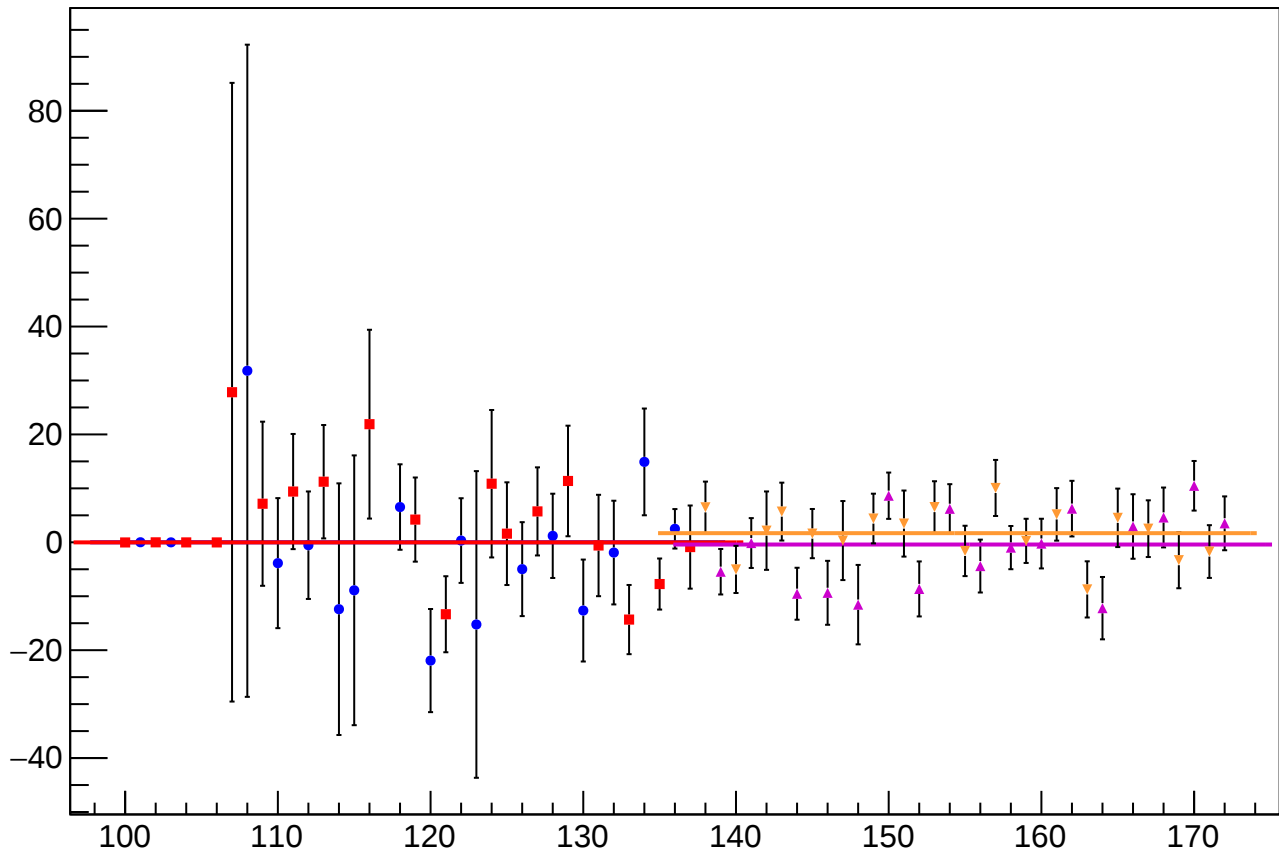
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.958 $\pm$ 0.012 χ^2 /NDF: 37170981.8/33

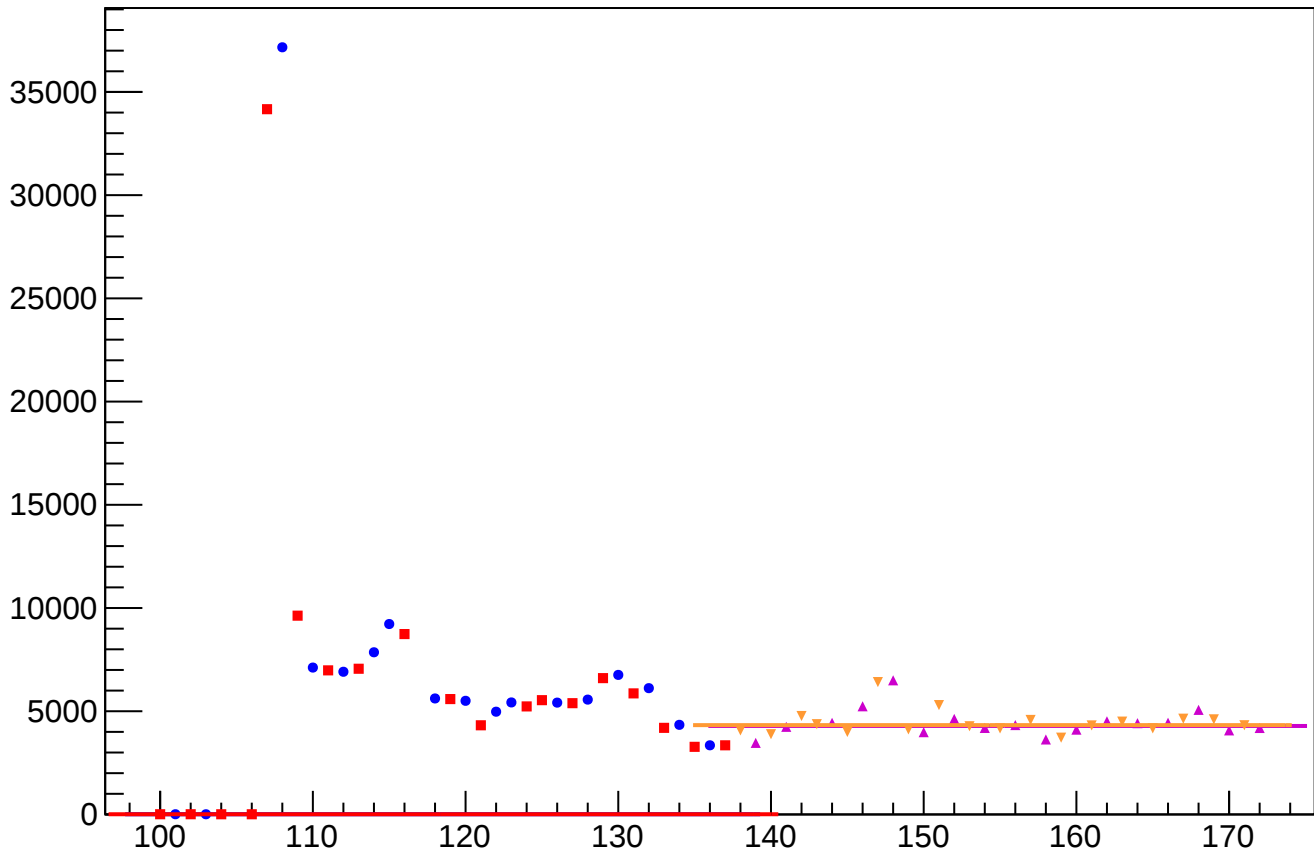
Out: 18.590 $\pm$ 0.011 χ^2 /NDF: 37801232.1/36

All: 18.760 $\pm$ 0.008 χ^2 /NDF: 74972698.4/70

diff_cav4bY_mean vs Slug, Sign Corrected



diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 11114526.8/16

Left Out: 4326.864 ± 0.842 χ^2/NDF : 328394.6/17

Right Out: 9.854 ± 0.006 χ^2/NDF : 11159992.3/18

Left In: 4286.099 ± 0.845 χ^2/NDF : 436769.9/16

Left: 4306.544 ± 0.597 χ^2/NDF : 766331.9/34

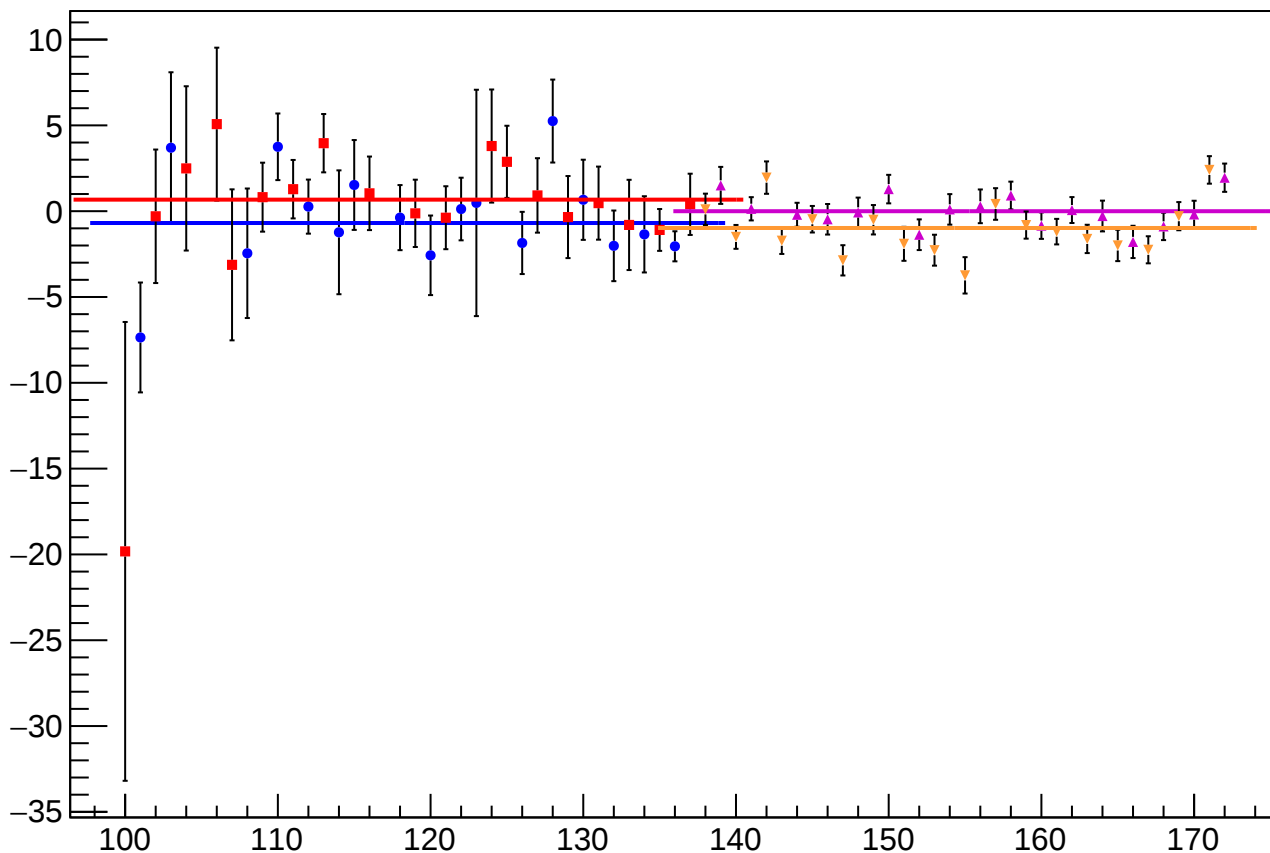
Right: 9.894 ± 0.004 χ^2/NDF : 22274609.0/35

In: 10.193 ± 0.007 χ^2/NDF : 37162215.5/33

Out: 10.082 ± 0.006 χ^2/NDF : 37751910.4/36

All: 10.134 ± 0.004 χ^2/NDF : 74914279.3/70

diff_cav4cX_mean vs Slug, Sign Corrected



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

Left Out: -0.979 ± 0.198 χ^2/NDF : 53.0/17

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

Left In: -0.002 ± 0.201 χ^2/NDF : 20.3/16

Left: -0.498 ± 0.141 χ^2/NDF : 85.2/34

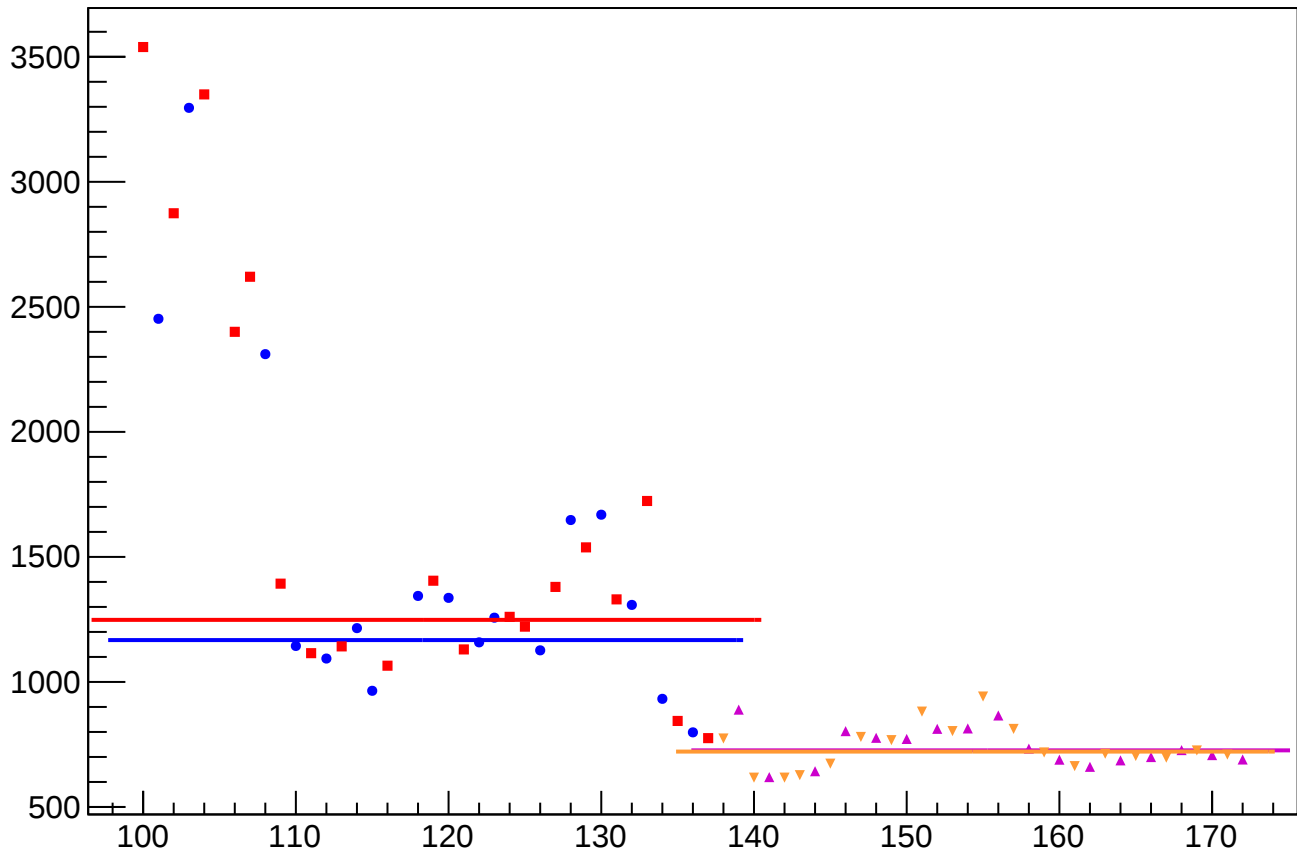
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: -0.104 ± 0.186 χ^2/NDF : 44.6/33

Out: -0.755 ± 0.184 χ^2/NDF : 75.7/36

All: -0.432 ± 0.131 χ^2/NDF : 126.4/70

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.397 ± 0.341 $\chi^2/\text{NDF}: 1578328.1/16$

Left Out: 721.518 ± 0.140 $\chi^2/\text{NDF}: 318136.6/17$

Right Out: 1248.241 ± 0.354 $\chi^2/\text{NDF}: 1654028.9/18$

Left In: 726.400 ± 0.142 $\chi^2/\text{NDF}: 260909.2/16$

Left: 723.922 ± 0.100 $\chi^2/\text{NDF}: 579642.6/34$

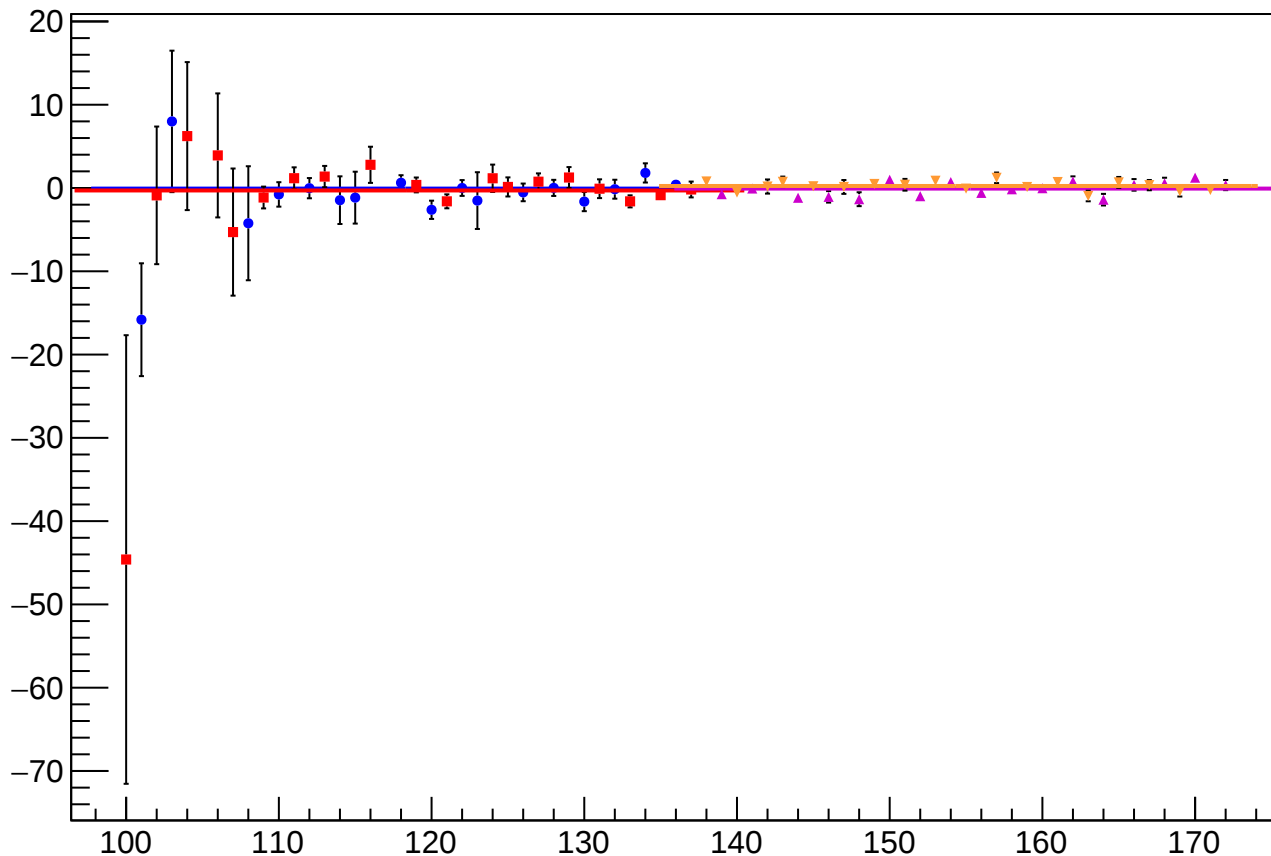
Right: 1206.306 ± 0.246 $\chi^2/\text{NDF}: 3259405.5/35$

In: 791.883 ± 0.131 $\chi^2/\text{NDF}: 3263226.2/33$

Out: 792.952 ± 0.130 $\chi^2/\text{NDF}: 3885462.1/36$

All: 792.422 ± 0.093 $\chi^2/\text{NDF}: 7148721.7/70$

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.243 ± 0.143 χ^2/NDF : 14.5/17

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

Left In: -0.070 ± 0.144 χ^2/NDF : 32.2/16

Left: 0.088 ± 0.101 χ^2/NDF : 49.1/34

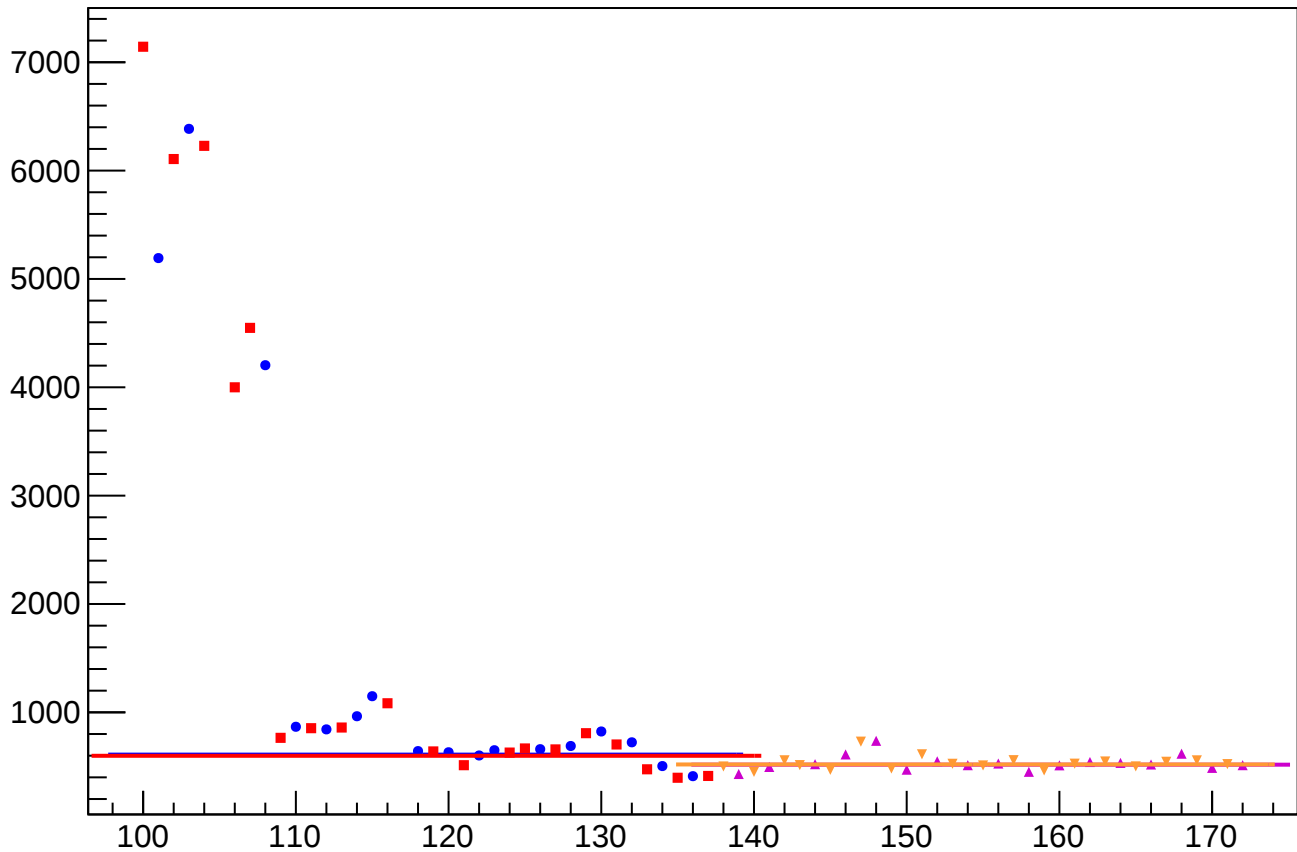
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.071 ± 0.127 χ^2/NDF : 51.4/33

Out: 0.122 ± 0.126 χ^2/NDF : 38.0/36

All: 0.026 ± 0.089 χ^2/NDF : 90.5/70

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 519.000 $\pm$ 0.101 χ^2 /NDF: 280848.9/17

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

Left In: 516.920 $\pm$ 0.102 χ^2 /NDF: 346861.8/16

Left: 517.968 $\pm$ 0.072 χ^2 /NDF: 627921.5/34

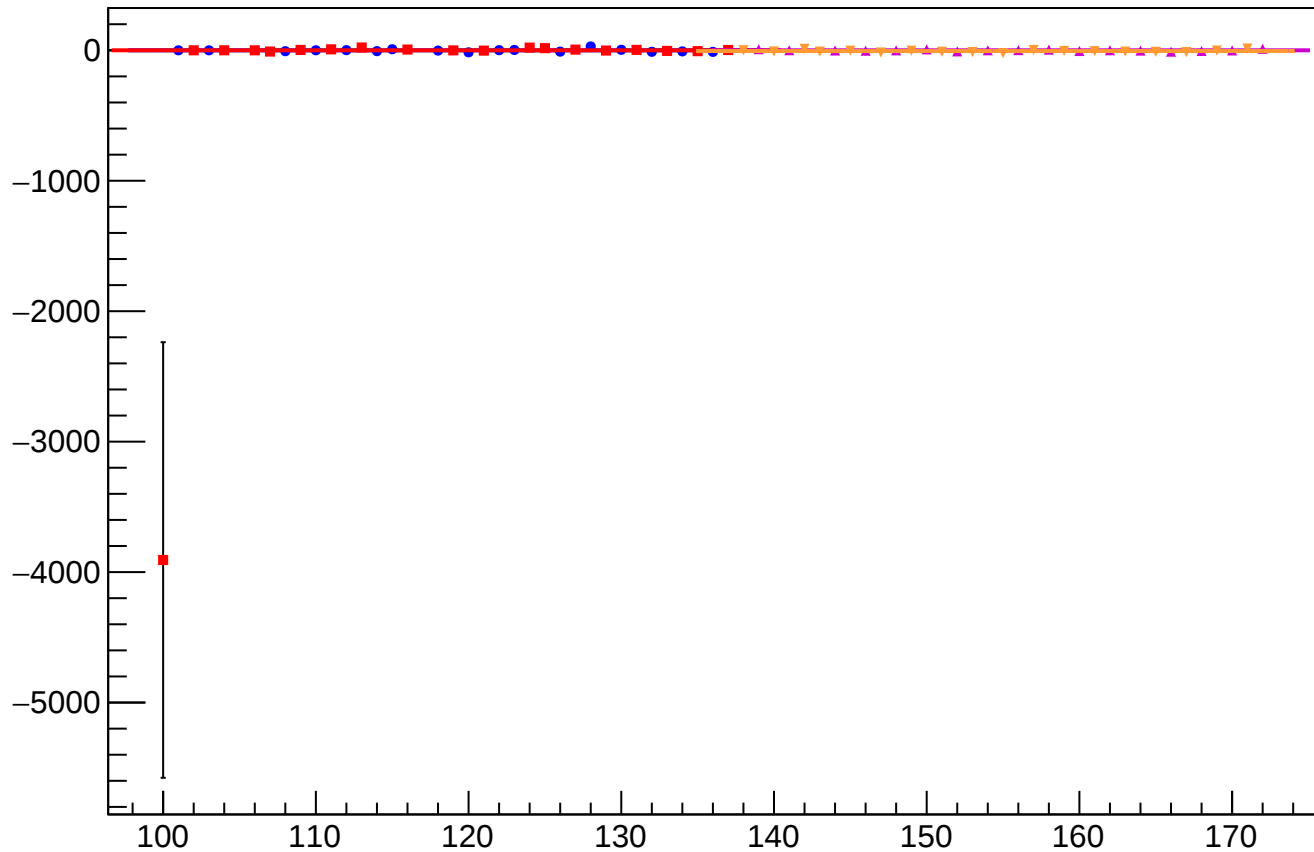
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 537.612 $\pm$ 0.090 χ^2 /NDF: 3668642.6/33

Out: 537.102 $\pm$ 0.089 χ^2 /NDF: 3975502.7/36

All: 537.354 $\pm$ 0.063 χ^2 /NDF: 7644161.5/70

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -5.657 +/- 1.155 χ^2/NDF : 52.8/17

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

Left In: 0.032 +/- 1.173 χ^2/NDF : 20.4/16

Left: -2.858 +/- 0.823 χ^2/NDF : 85.2/34

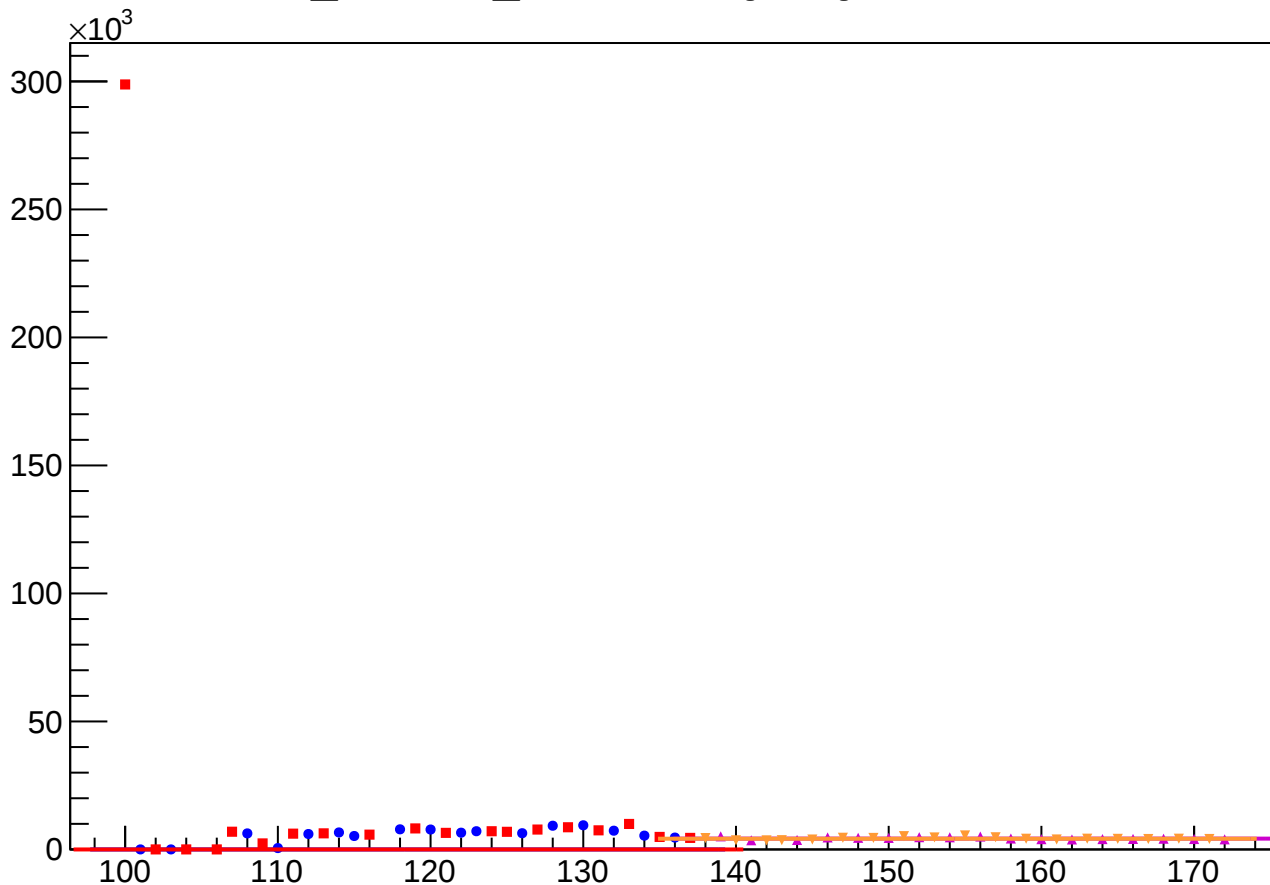
Right: 0.004 +/- 0.014 χ^2/NDF : 36.4/35

In: -0.022 +/- 0.021 χ^2/NDF : 36.1/33

Out: 0.025 +/- 0.020 χ^2/NDF : 94.9/36

All: 0.003 +/- 0.014 χ^2/NDF : 133.6/70

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341 ± 0.015 $\chi^2/\text{NDF}: 10501445.0/16$

Left Out: 4199.369 ± 0.817 $\chi^2/\text{NDF}: 336675.7/17$

Right Out: 17.269 ± 0.014 $\chi^2/\text{NDF}: 10820611.7/18$

Left In: 4231.341 ± 0.830 $\chi^2/\text{NDF}: 269242.6/16$

Left: 4215.099 ± 0.582 $\chi^2/\text{NDF}: 606672.6/34$

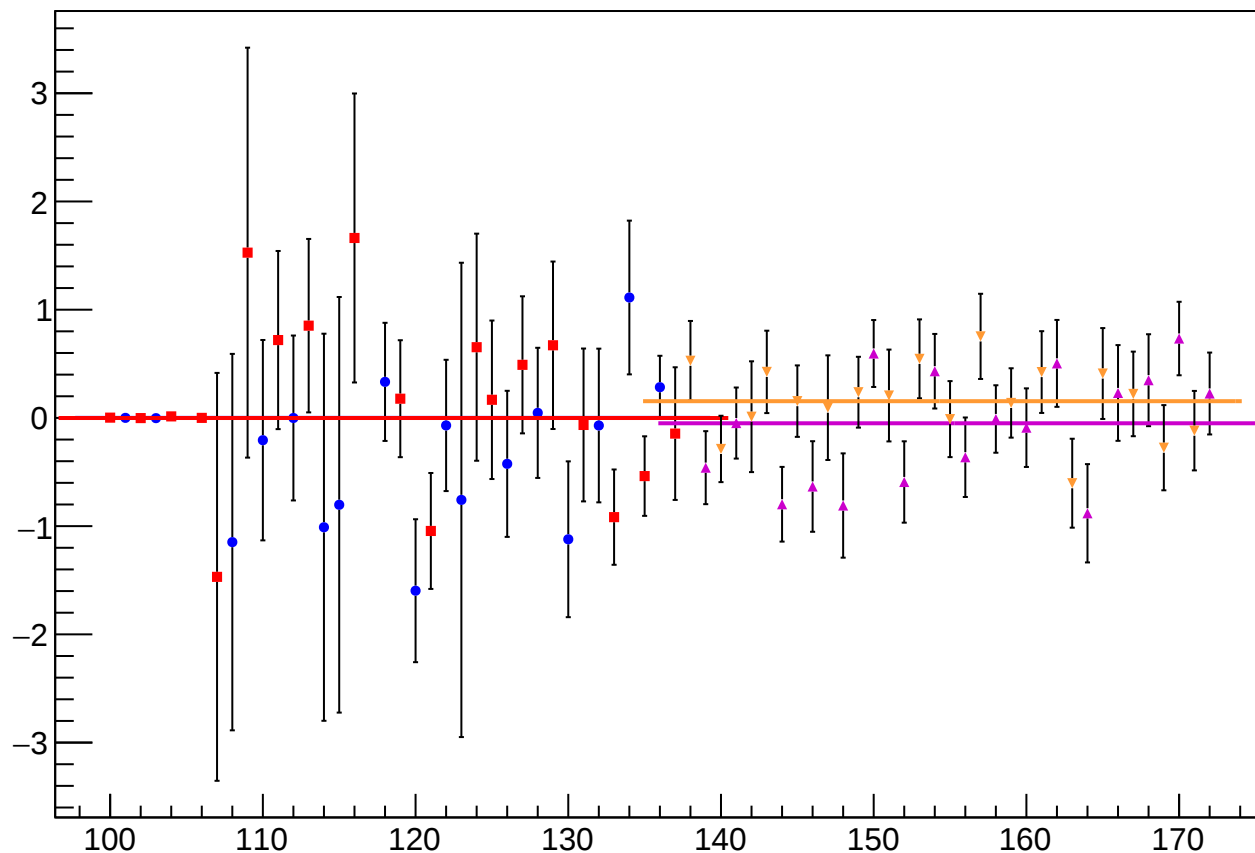
Right: 17.303 ± 0.010 $\chi^2/\text{NDF}: 21322069.2/35$

In: 18.664 ± 0.015 $\chi^2/\text{NDF}: 36560336.5/33$

Out: 18.495 ± 0.014 $\chi^2/\text{NDF}: 37383300.8/36$

All: 18.575 ± 0.010 $\chi^2/\text{NDF}: 73943706.6/70$

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 13.8/16

Left Out: 0.155 ± 0.088 χ^2/NDF : 13.5/17

Right Out: -0.001 ± 0.002 χ^2/NDF : 17.9/18

Left In: -0.050 ± 0.089 χ^2/NDF : 32.1/16

Left: 0.054 ± 0.063 χ^2/NDF : 48.3/34

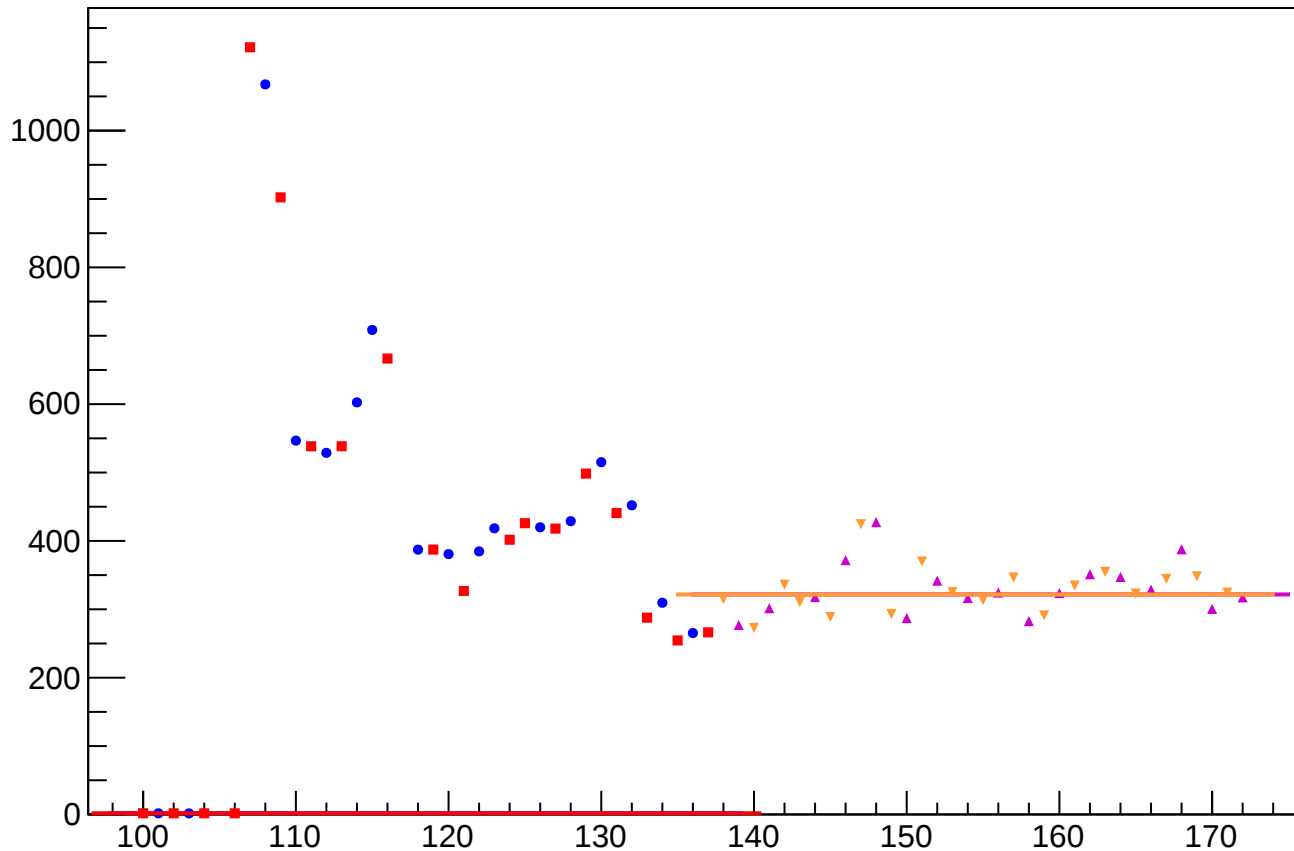
Right: -0.000 ± 0.001 χ^2/NDF : 31.8/35

In: 0.000 ± 0.002 χ^2/NDF : 46.2/33

Out: -0.001 ± 0.002 χ^2/NDF : 34.5/36

All: -0.000 ± 0.001 χ^2/NDF : 80.9/70

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 321.677+/-0.063 χ^2/NDF : 265419.5/17

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

Left In: 321.735+/-0.063 χ^2/NDF : 304389.9/16

Left: 321.706+/-0.044 χ^2/NDF : 569809.8/34

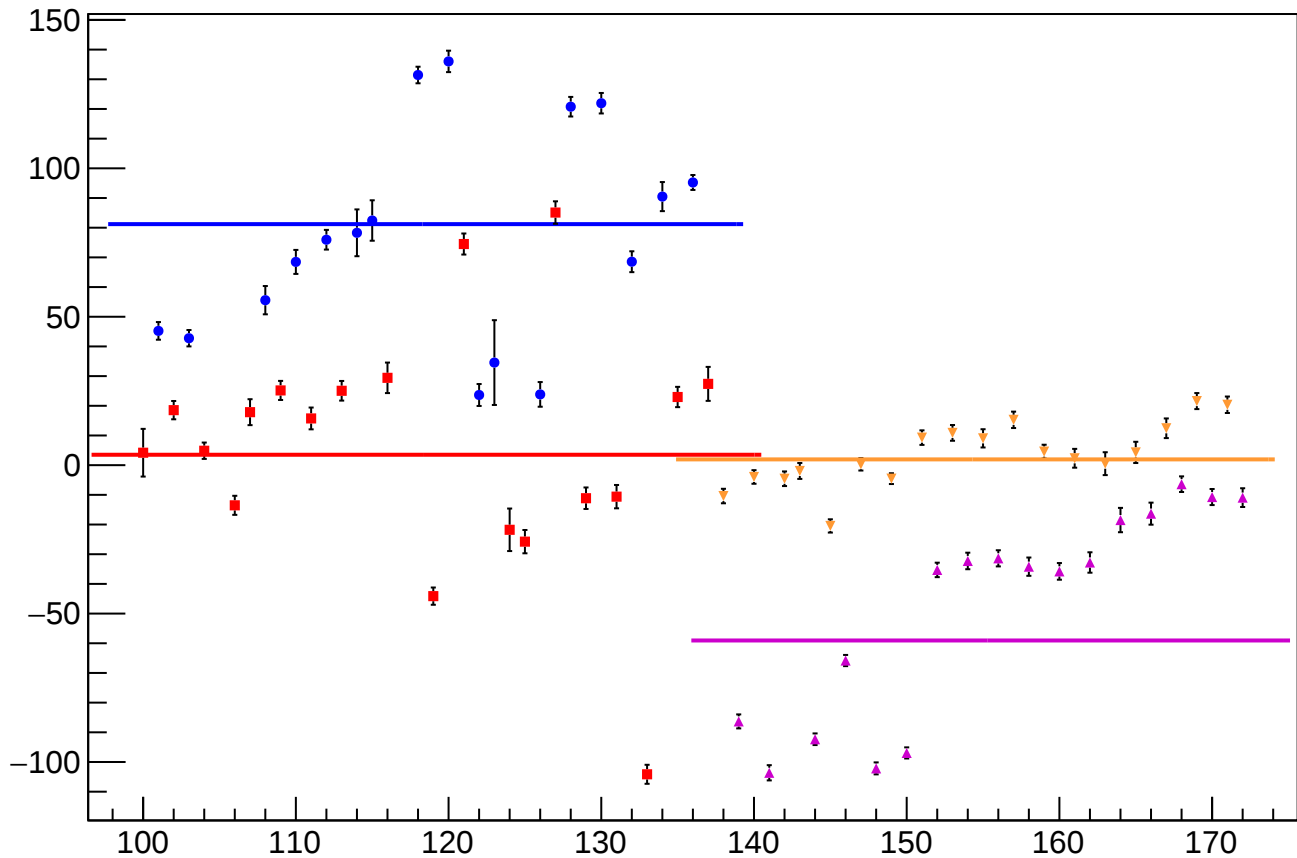
Right: 1.714+/-0.001 χ^2/NDF : 21797153.2/35

In: 1.863+/-0.001 χ^2/NDF : 36967047.7/33

Out: 1.882+/-0.001 χ^2/NDF : 37187594.5/36

All: 1.873+/-0.001 χ^2/NDF : 74154733.3/70

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 1.945 ± 0.606 χ^2/NDF : 312.9/17

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

Left In: -59.061 ± 0.613 χ^2/NDF : 3262.8/16

Left: -28.215 ± 0.431 χ^2/NDF : 8588.5/34

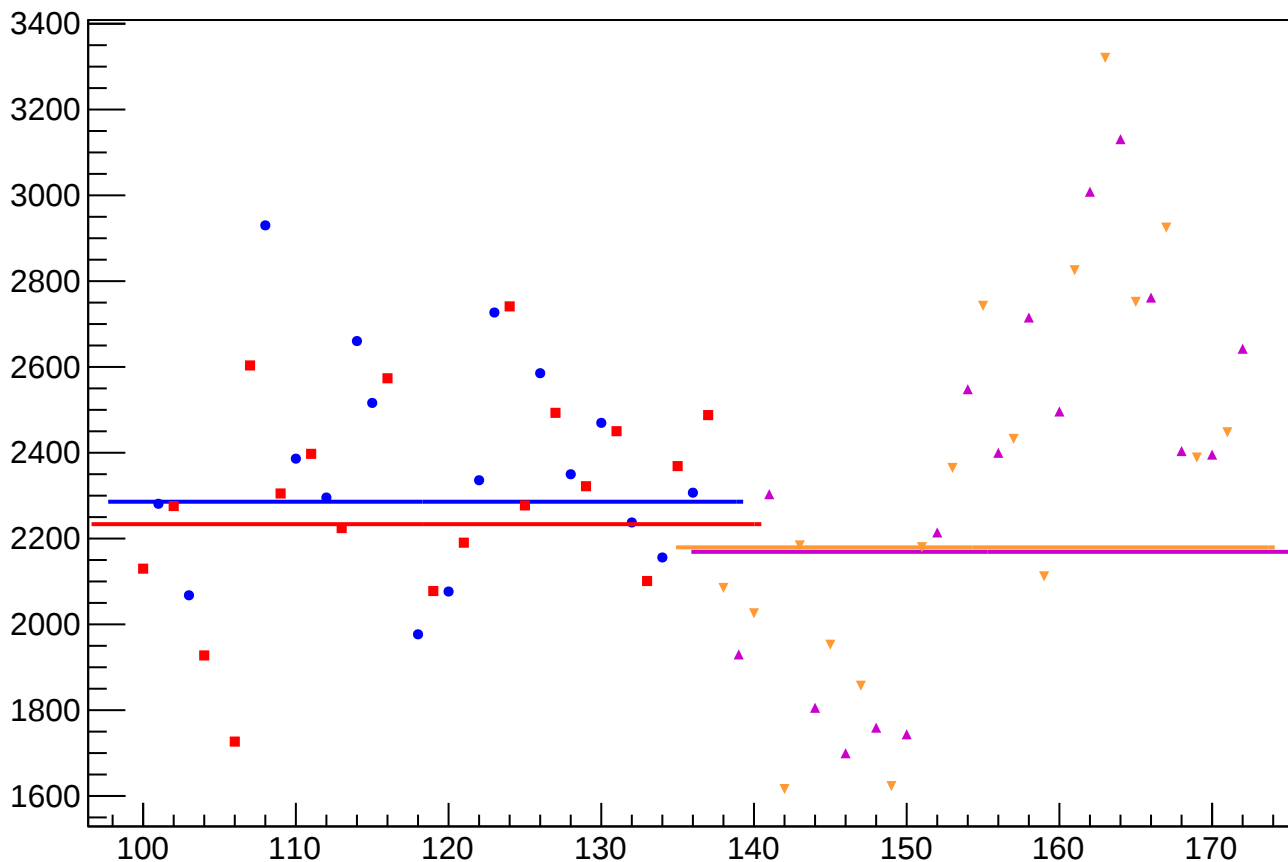
Right: 40.415 ± 0.610 χ^2/NDF : 8348.3/35

In: -13.664 ± 0.504 χ^2/NDF : 21934.7/33

Out: 2.478 ± 0.492 χ^2/NDF : 2914.2/36

All: -5.398 ± 0.352 χ^2/NDF : 25374.4/70

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2179.521 $\pm$ 0.428 χ^2 /NDF: 908479.2/17

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

Left In: 2169.035 $\pm$ 0.433 χ^2 /NDF: 901278.3/16

Left: 2174.337 $\pm$ 0.305 χ^2 /NDF: 1810053.7/34

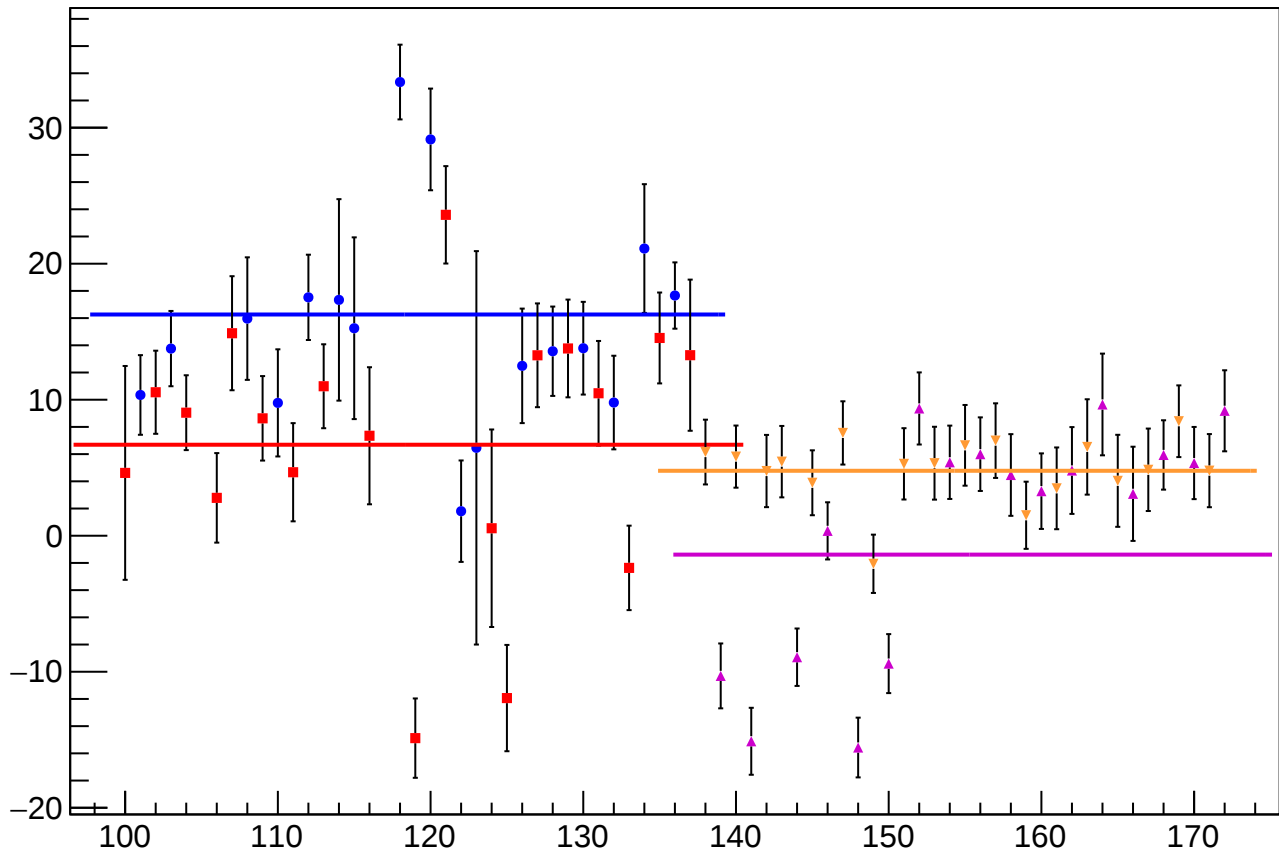
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2206.845 $\pm$ 0.356 χ^2 /NDF: 1034147.1/33

Out: 2197.935 $\pm$ 0.348 χ^2 /NDF: 1060748.7/36

All: 2202.283 $\pm$ 0.249 χ^2 /NDF: 2095216.0/70

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

Left Out: 4.775 ± 0.620 $\chi^2/\text{NDF}: 17.6/17$

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

Left In: -1.389 ± 0.629 $\chi^2/\text{NDF}: 192.1/16$

Left: 1.734 ± 0.442 $\chi^2/\text{NDF}: 258.5/34$

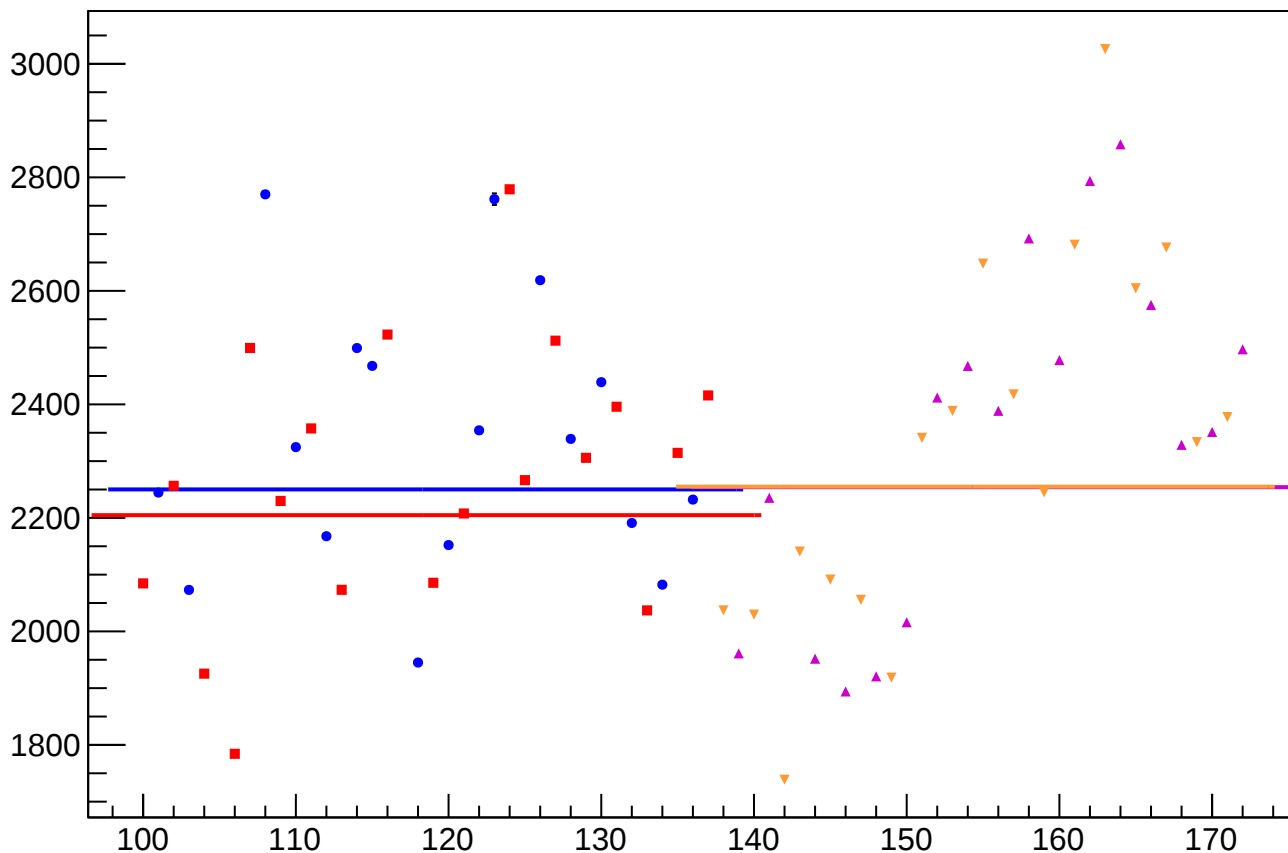
Right: 11.249 ± 0.601 $\chi^2/\text{NDF}: 278.0/35$

In: 4.653 ± 0.510 $\chi^2/\text{NDF}: 542.8/33$

Out: 5.461 ± 0.497 $\chi^2/\text{NDF}: 155.0/36$

All: 5.067 ± 0.356 $\chi^2/\text{NDF}: 699.1/70$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

Left Out: 2255.044+/-0.439 χ^2/NDF : 441207.5/17

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

Left In: 2254.124+/-0.445 χ^2/NDF : 424628.4/16

Left: 2254.590+/-0.312 χ^2/NDF : 865838.1/34

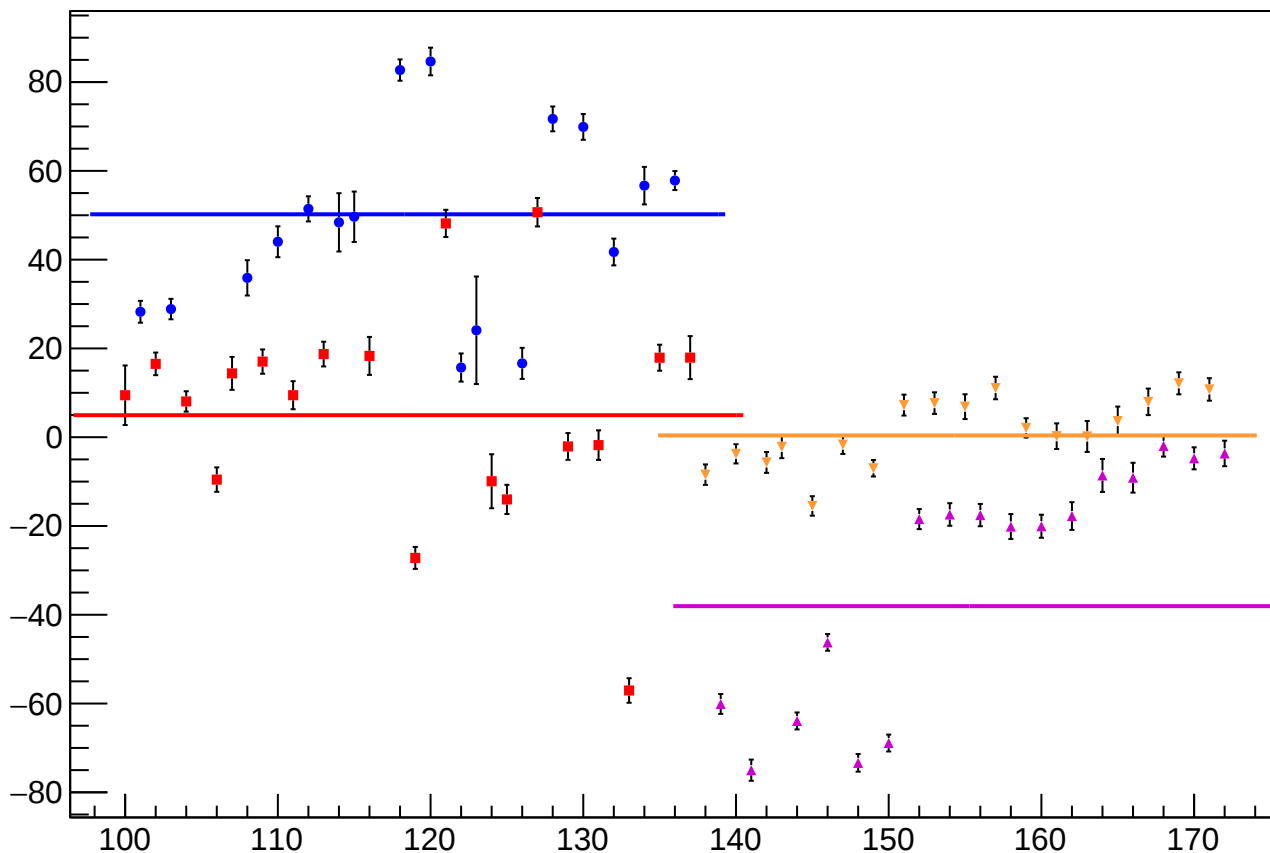
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

In: 2252.773+/-0.361 χ^2/NDF : 522233.5/33

Out: 2237.056+/-0.351 χ^2/NDF : 572134.3/36

All: 2244.714+/-0.252 χ^2/NDF : 1095342.2/70

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: 0.394+/-0.574 χ^2/NDF :183.0/17

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

Left In: -38.058+/-0.581 χ^2/NDF :2142.0/16

Left: -18.619+/-0.408 χ^2/NDF : 4540.7/34

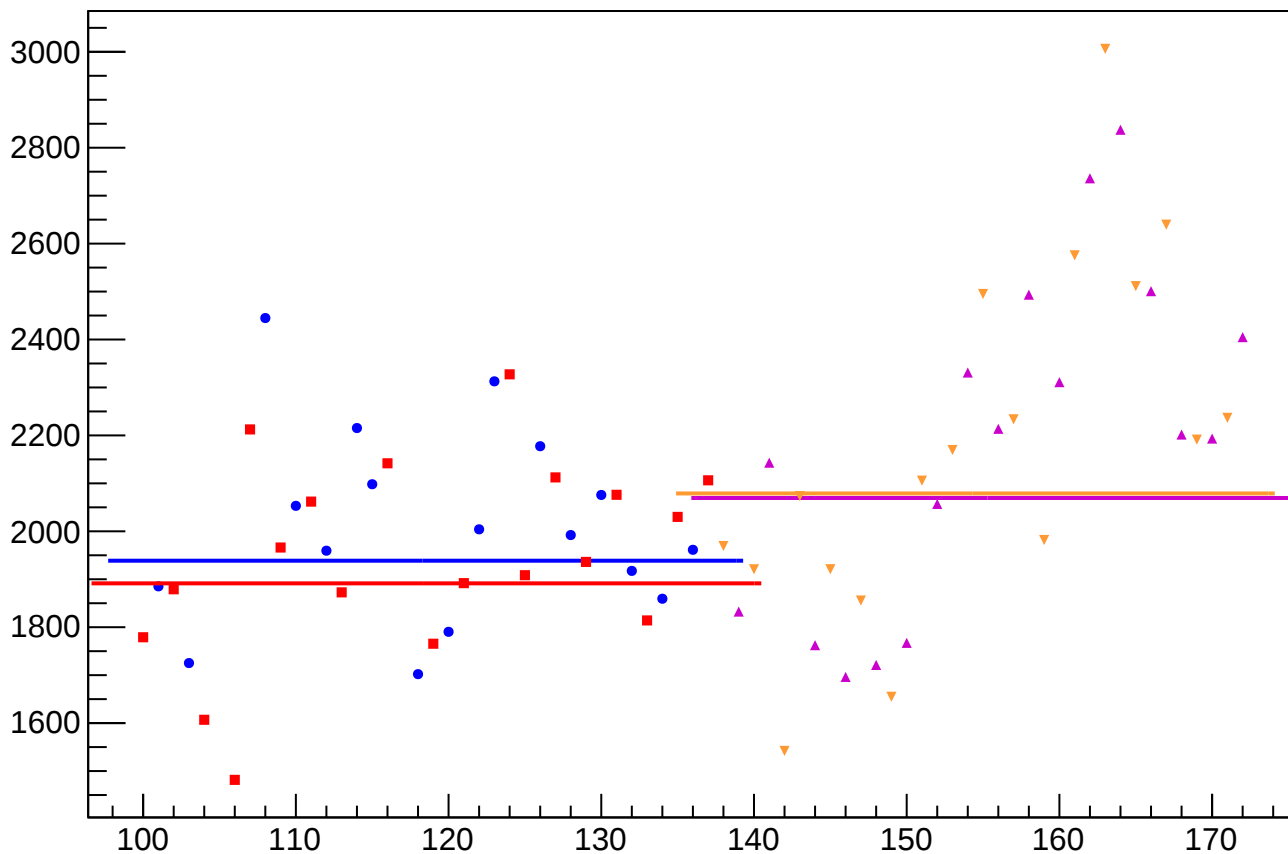
Right: 26.432+/-0.517 χ^2/NDF : 4002.4/35

In: -5.008+/-0.459 χ^2/NDF :11620.3/33

Out: 2.189+/-0.447 χ^2/NDF :1470.4/36

All: -1.314+/-0.321 χ^2/NDF : 13216.7/70

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2078.965 $\pm$ 0.406 χ^2 /NDF: 633646.7/17

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

Left In: 2069.471 $\pm$ 0.411 χ^2 /NDF: 604886.3/16

Left: 2074.271 $\pm$ 0.289 χ^2 /NDF: 1238803.2/34

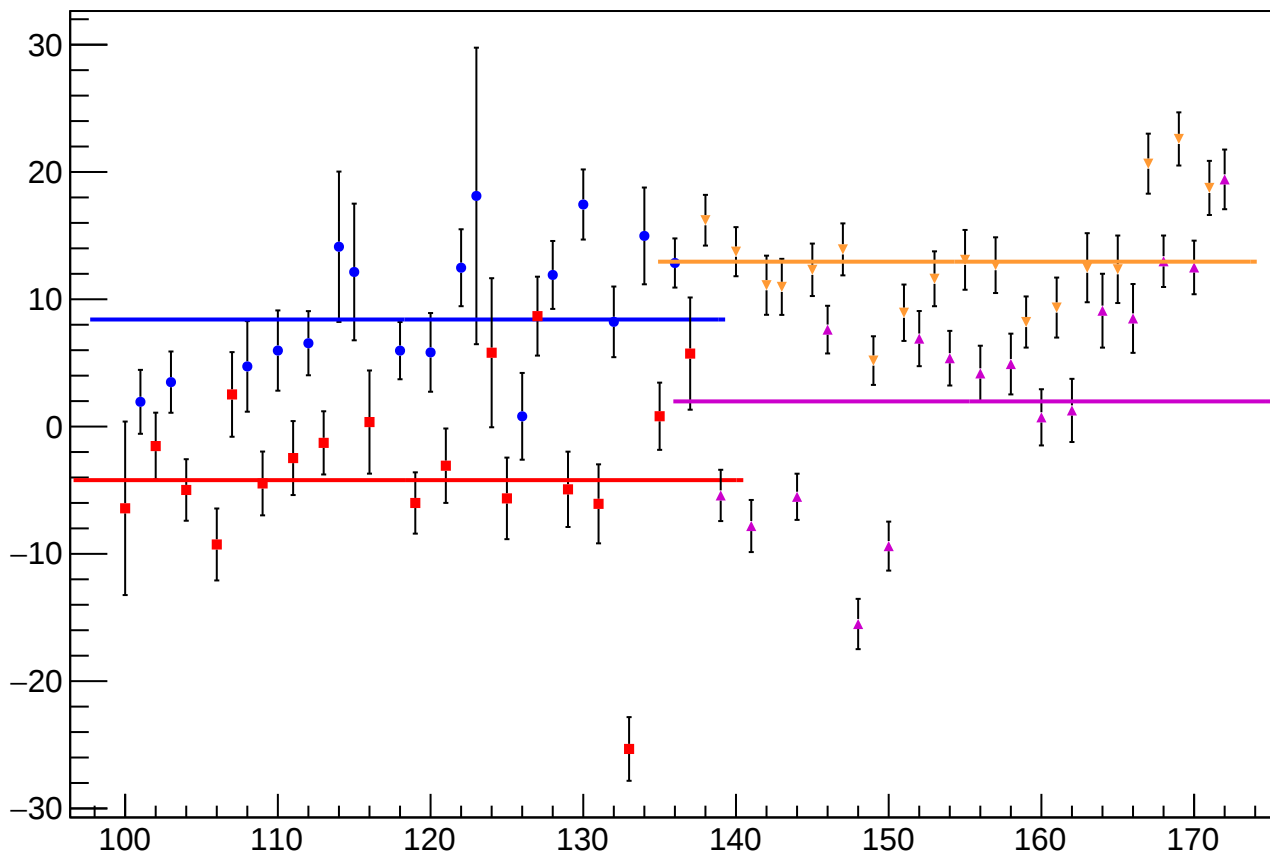
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

In: 2020.504 $\pm$ 0.325 χ^2 /NDF: 742994.9/33

Out: 2005.219 $\pm$ 0.316 χ^2 /NDF: 864083.2/36

All: 2012.659 $\pm$ 0.227 χ^2 /NDF: 1608214.3/70

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 12.954 ± 0.513 χ^2/NDF : 72.2/17

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

Left In: 1.977 ± 0.520 χ^2/NDF : 308.2/16

Left: 7.549 ± 0.365 χ^2/NDF : 606.3/34

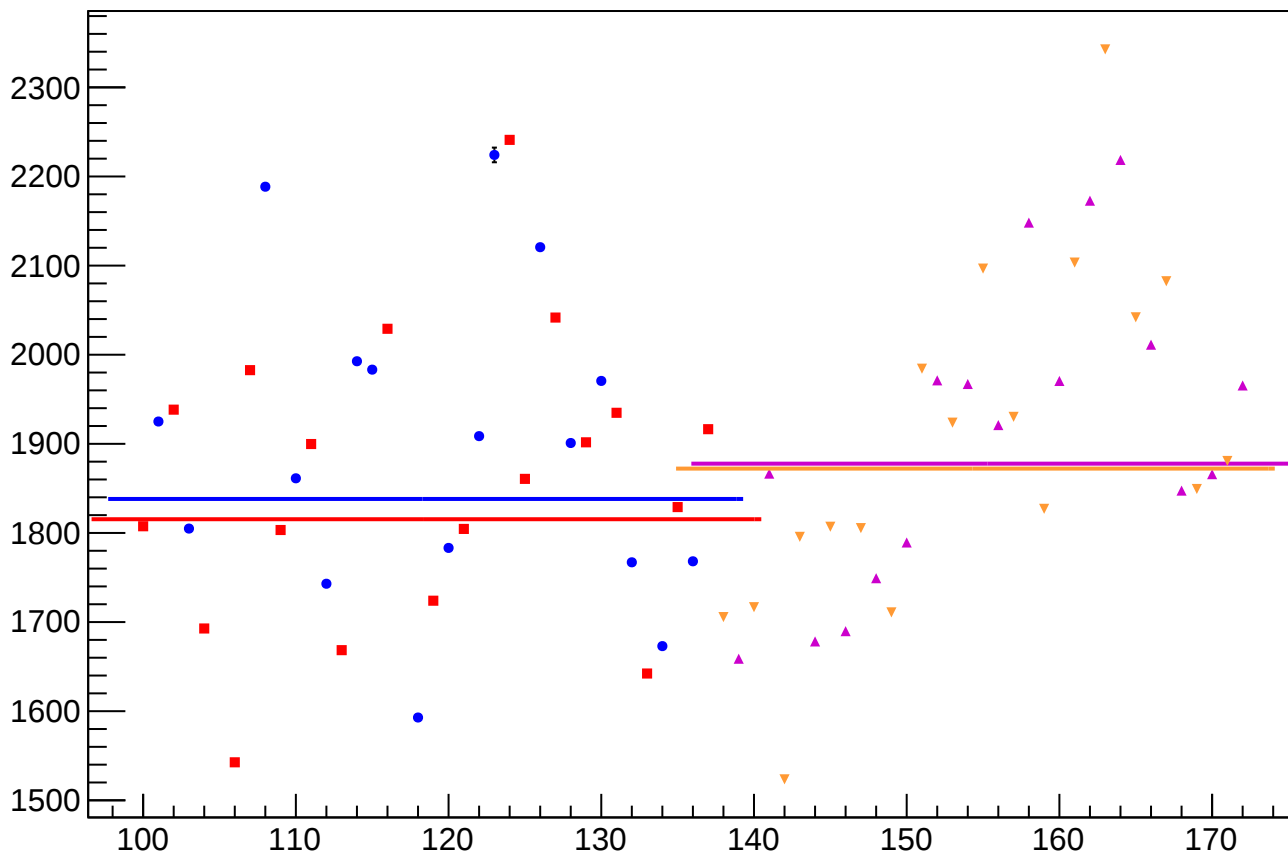
Right: 1.840 ± 0.492 χ^2/NDF : 321.6/35

In: 4.220 ± 0.420 χ^2/NDF : 406.1/33

Out: 6.764 ± 0.410 χ^2/NDF : 589.7/36

All: 5.523 ± 0.293 χ^2/NDF : 1014.6/70

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1872.210 $\pm$ 0.362 χ^2 /NDF:223533.5/17

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

Left In: 1877.760 $\pm$ 0.368 χ^2 /NDF:181962.7/16

Left: 1874.943 $\pm$ 0.258 χ^2 /NDF: 405611.7/34

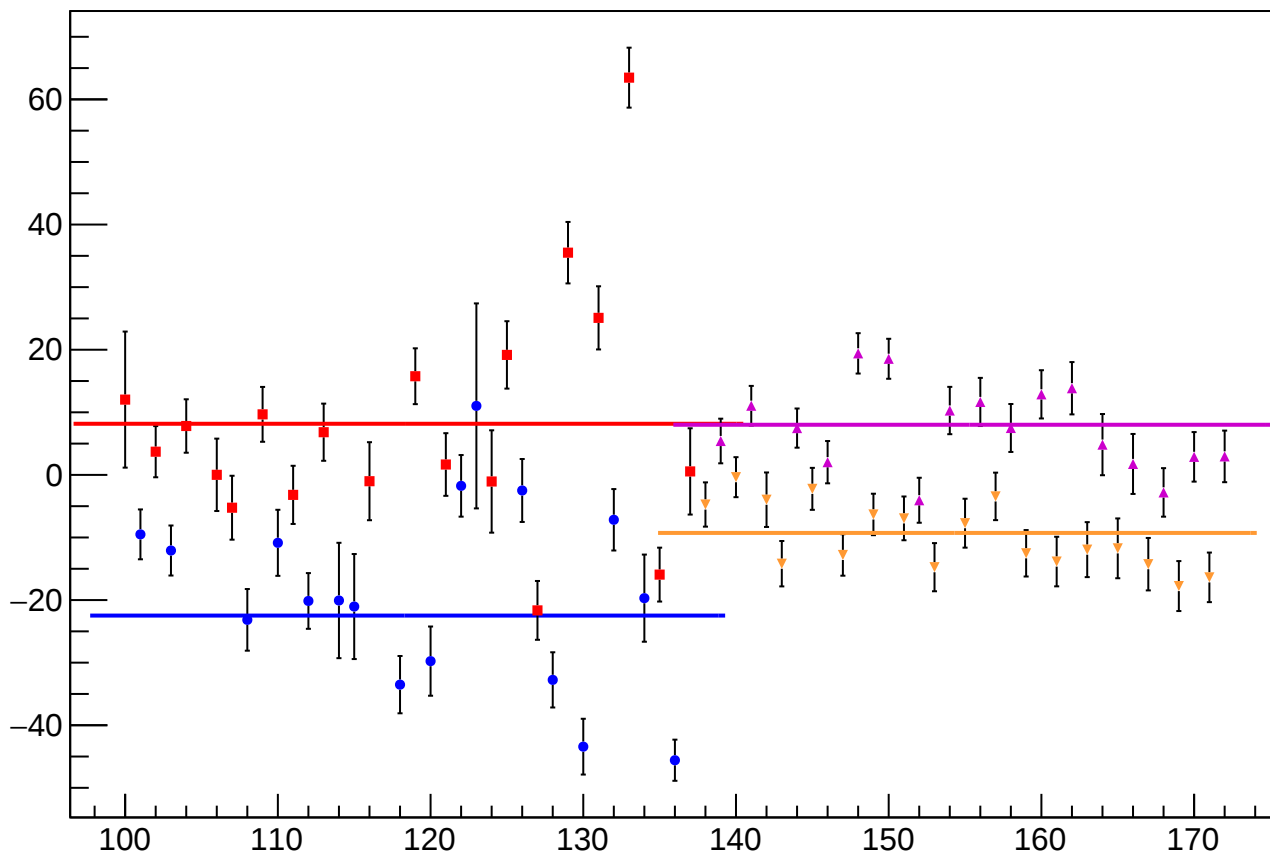
Right: 1826.303 $\pm$ 0.348 χ^2 /NDF: 171362.3/35

In: 1863.946 $\pm$ 0.297 χ^2 /NDF:268883.1/33

Out: 1851.722 $\pm$ 0.290 χ^2 /NDF:319813.7/36

All: 1857.685 $\pm$ 0.207 χ^2 /NDF: 589564.8/70

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.477 ± 1.195 $\chi^2/\text{NDF}: 154.7/16$

Left Out: -9.272 ± 0.885 $\chi^2/\text{NDF}: 36.0/17$

Right Out: 8.169 ± 1.157 $\chi^2/\text{NDF}: 276.9/18$

Left In: 8.010 ± 0.897 $\chi^2/\text{NDF}: 57.2/16$

Left: -0.745 ± 0.630 $\chi^2/\text{NDF}: 281.4/34$

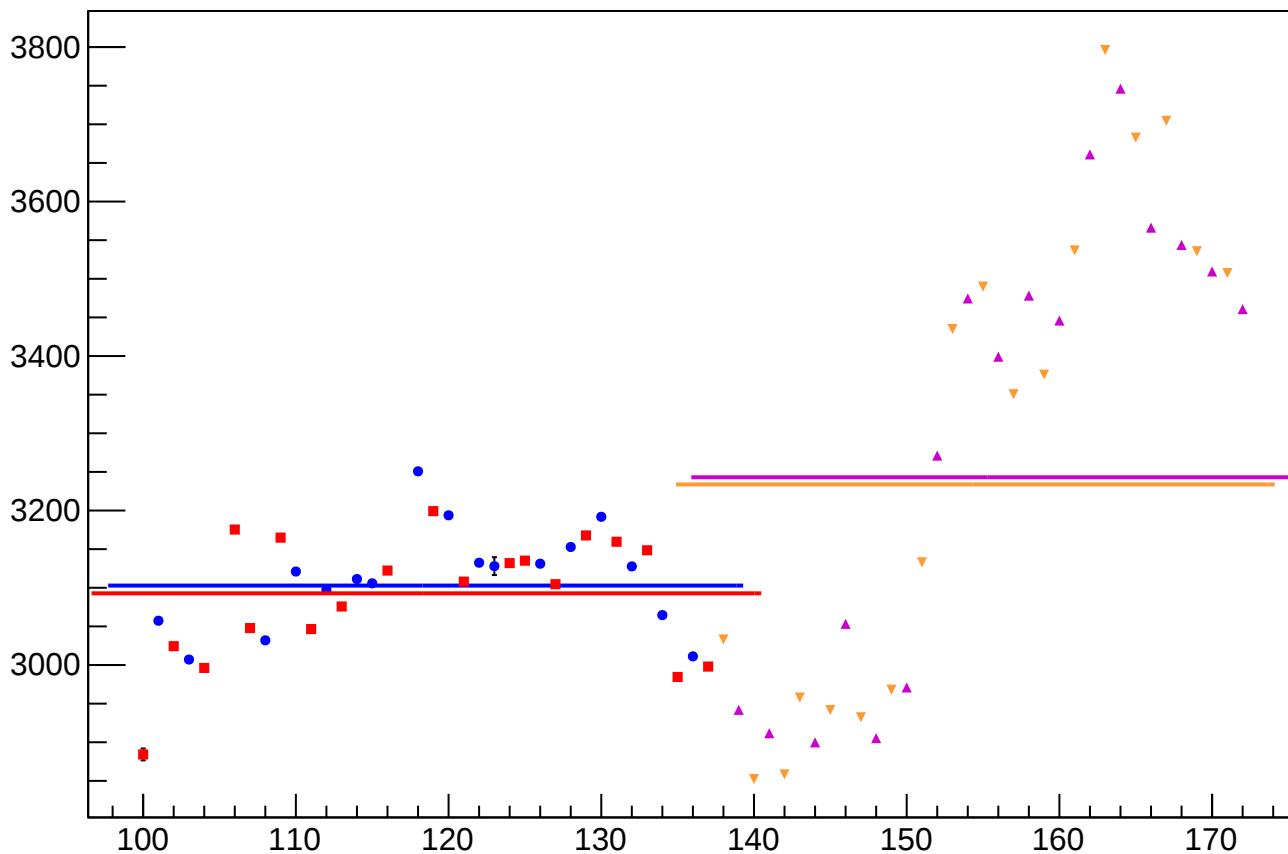
Right: -6.656 ± 0.831 $\chi^2/\text{NDF}: 771.3/35$

In: -2.972 ± 0.717 $\chi^2/\text{NDF}: 628.5/33$

Out: -2.833 ± 0.703 $\chi^2/\text{NDF}: 456.3/36$

All: -2.901 ± 0.502 $\chi^2/\text{NDF}: 1084.9/70$

diff_bpm0l01X_rms vs Slug, Sign Corrected

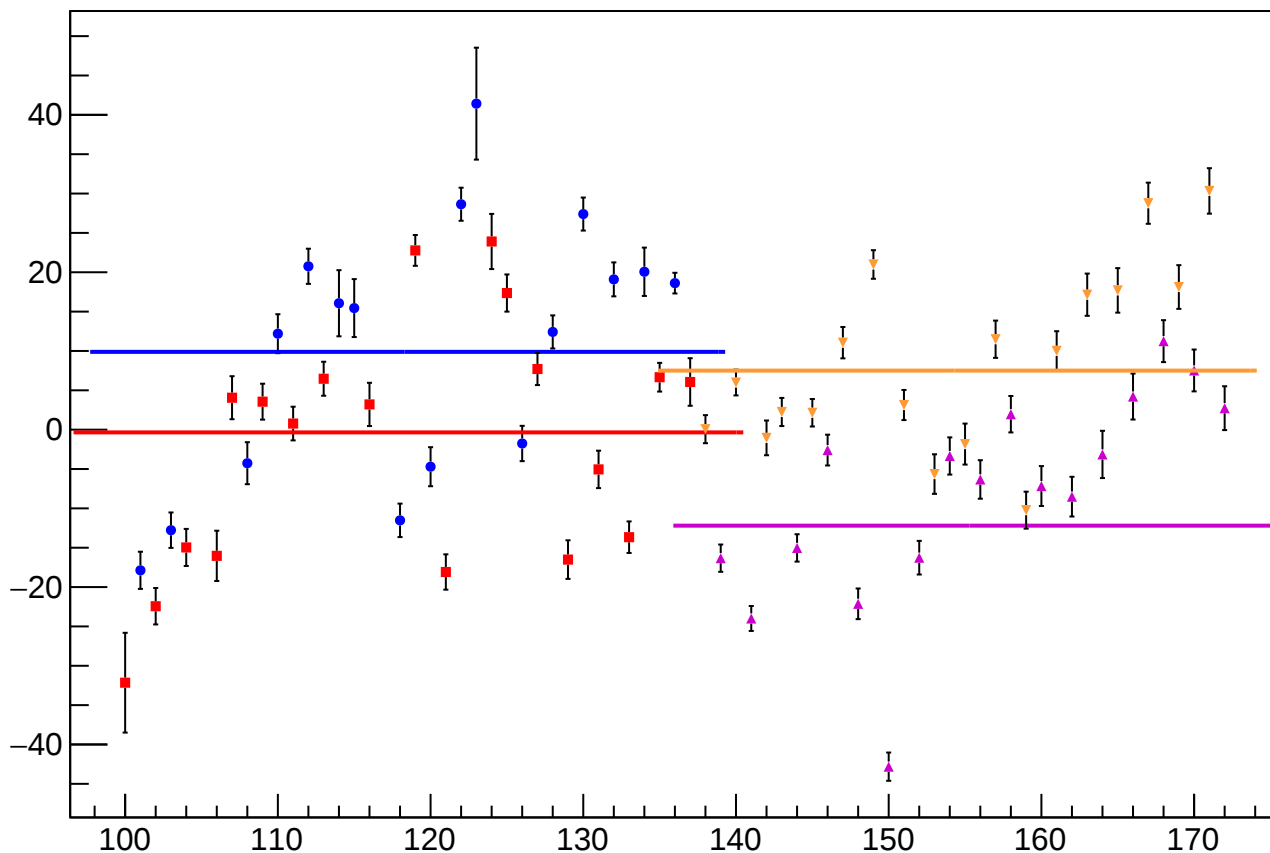


Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16
 Left Out: 3233.776 $\pm$ 0.626 χ^2 /NDF: 234878.8/17
 Right Out: 3092.795 $\pm$ 0.818 χ^2 /NDF: 7763.4/18
 Left In: 3243.056 $\pm$ 0.634 χ^2 /NDF: 203874.6/16

Left: 3238.355 $\pm$ 0.445 χ^2 /NDF: 438862.0/34
 Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35
 In: 3192.547 $\pm$ 0.507 χ^2 /NDF: 228842.2/33
 Out: 3181.730 $\pm$ 0.497 χ^2 /NDF: 261390.2/36

All: 3187.029 $\pm$ 0.355 χ^2 /NDF: 490464.6/70

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

Left Out: 7.506 ± 0.510 $\chi^2/\text{NDF}: 385.0/17$

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

Left In: -12.195 ± 0.527 $\chi^2/\text{NDF}: 673.5/16$

Left: -2.020 ± 0.366 $\chi^2/\text{NDF}: 1780.5/34$

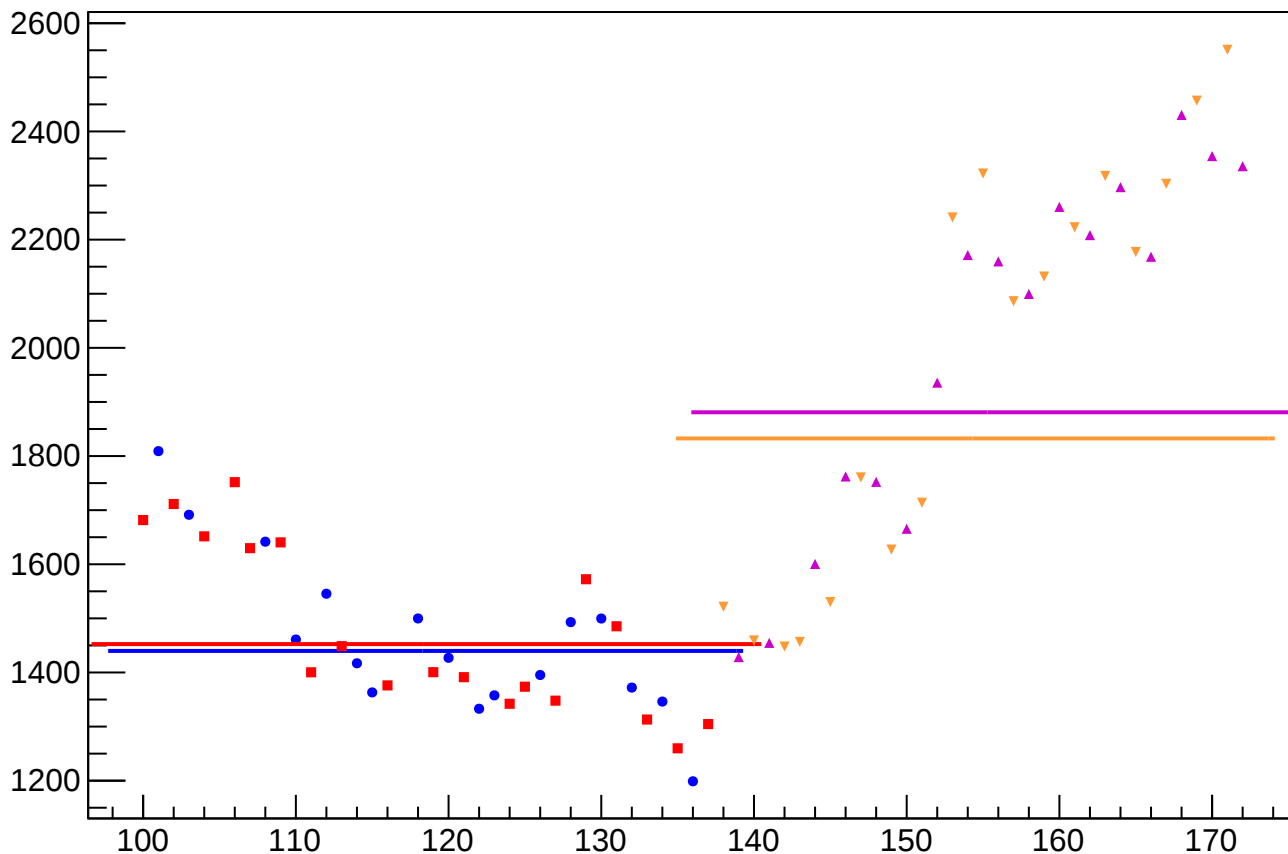
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

In: -1.815 ± 0.384 $\chi^2/\text{NDF}: 2202.7/33$

Out: 3.855 ± 0.373 $\chi^2/\text{NDF}: 1124.2/36$

All: 1.100 ± 0.267 $\chi^2/\text{NDF}: 3439.1/70$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.826+/-0.396 χ^2/NDF : 172823.5/16

Left Out: 1832.588+/-0.361 χ^2/NDF : 1022357.7/17

Right Out: 1452.452+/-0.387 χ^2/NDF : 138519.7/18

Left In: 1880.913+/-0.373 χ^2/NDF : 791503.4/16

Left: 1855.953+/-0.259 χ^2/NDF : 1822548.9/34

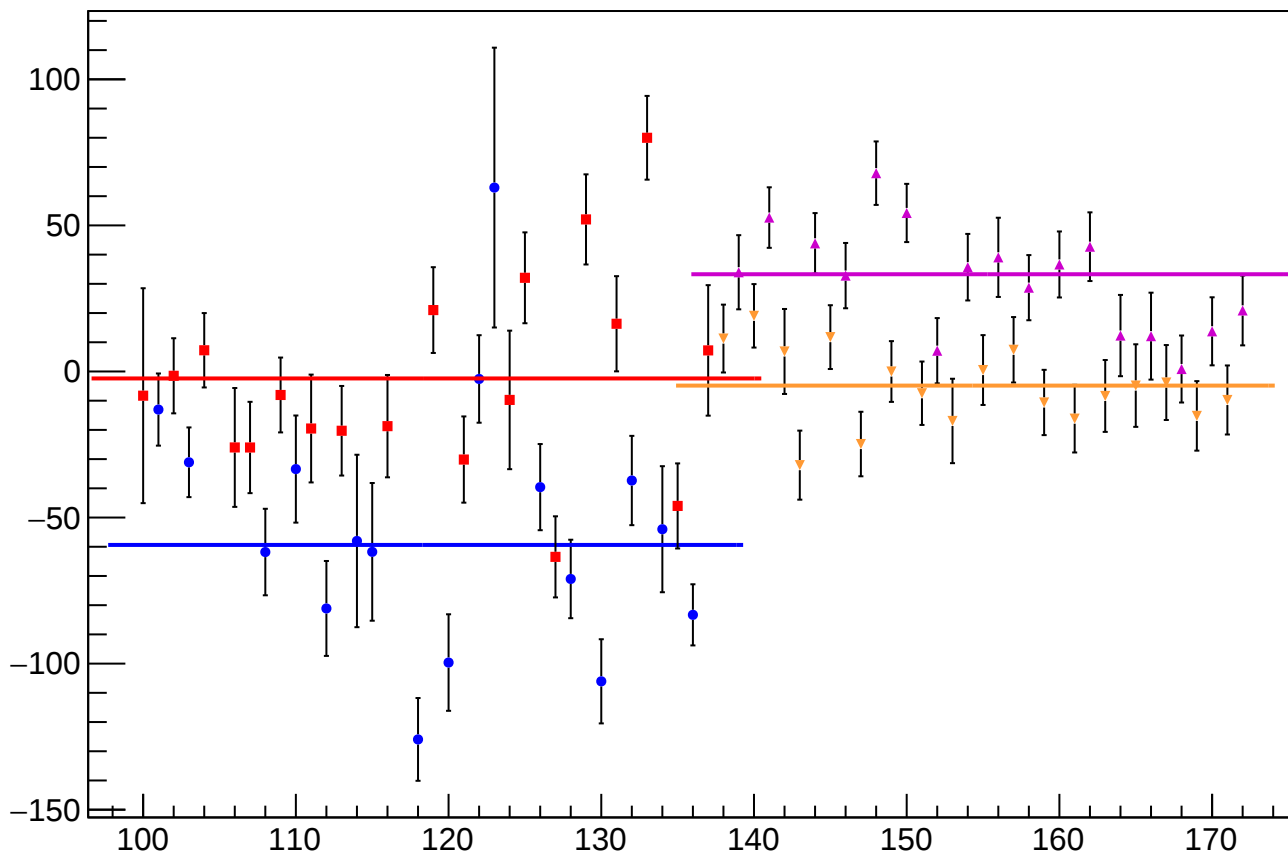
Right: 1446.283+/-0.277 χ^2/NDF : 311864.1/35

In: 1673.568+/-0.271 χ^2/NDF : 1623072.8/33

Out: 1655.831+/-0.264 χ^2/NDF : 1677877.9/36

All: 1664.449+/-0.189 χ^2/NDF : 3303148.9/70

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 ± 3.729 $\chi^2/\text{NDF}: 92.9/16$

Left Out: -4.833 ± 2.781 $\chi^2/\text{NDF}: 22.9/17$

Right Out: -2.388 ± 3.630 $\chi^2/\text{NDF}: 93.9/18$

Left In: 33.283 ± 2.803 $\chi^2/\text{NDF}: 41.9/16$

Left: 14.081 ± 1.974 $\chi^2/\text{NDF}: 158.0/34$

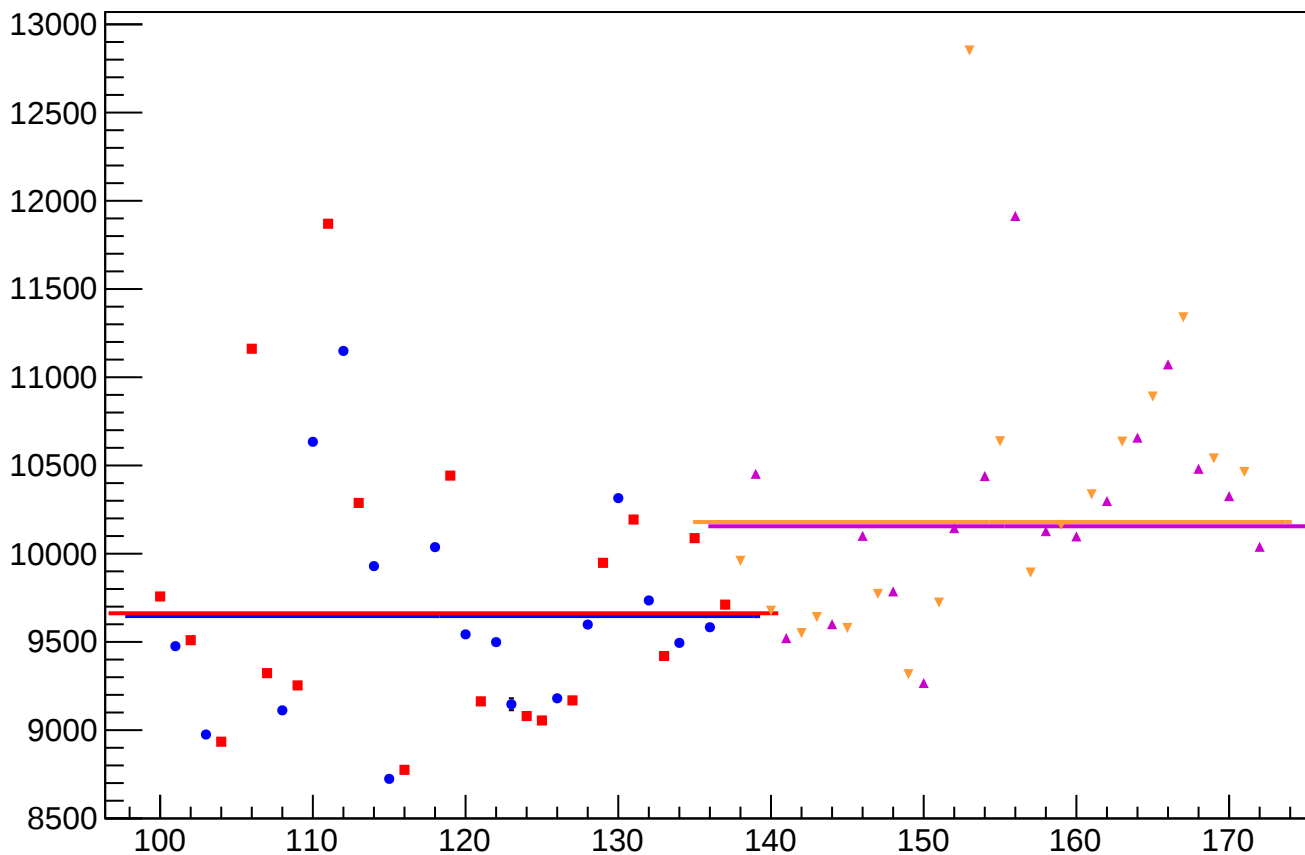
Right: -30.113 ± 2.601 $\chi^2/\text{NDF}: 306.8/35$

In: -0.165 ± 2.240 $\chi^2/\text{NDF}: 529.4/33$

Out: -3.928 ± 2.208 $\chi^2/\text{NDF}: 117.1/36$

All: -2.074 ± 1.573 $\chi^2/\text{NDF}: 648.0/70$

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

Left Out: 10179.536 ± 1.967 $\chi^2/\text{NDF}: 139186.5/17$

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

Left In: 10155.315 ± 1.982 $\chi^2/\text{NDF}: 80266.1/16$

Left: 10167.517 ± 1.396 $\chi^2/\text{NDF}: 219527.9/34$

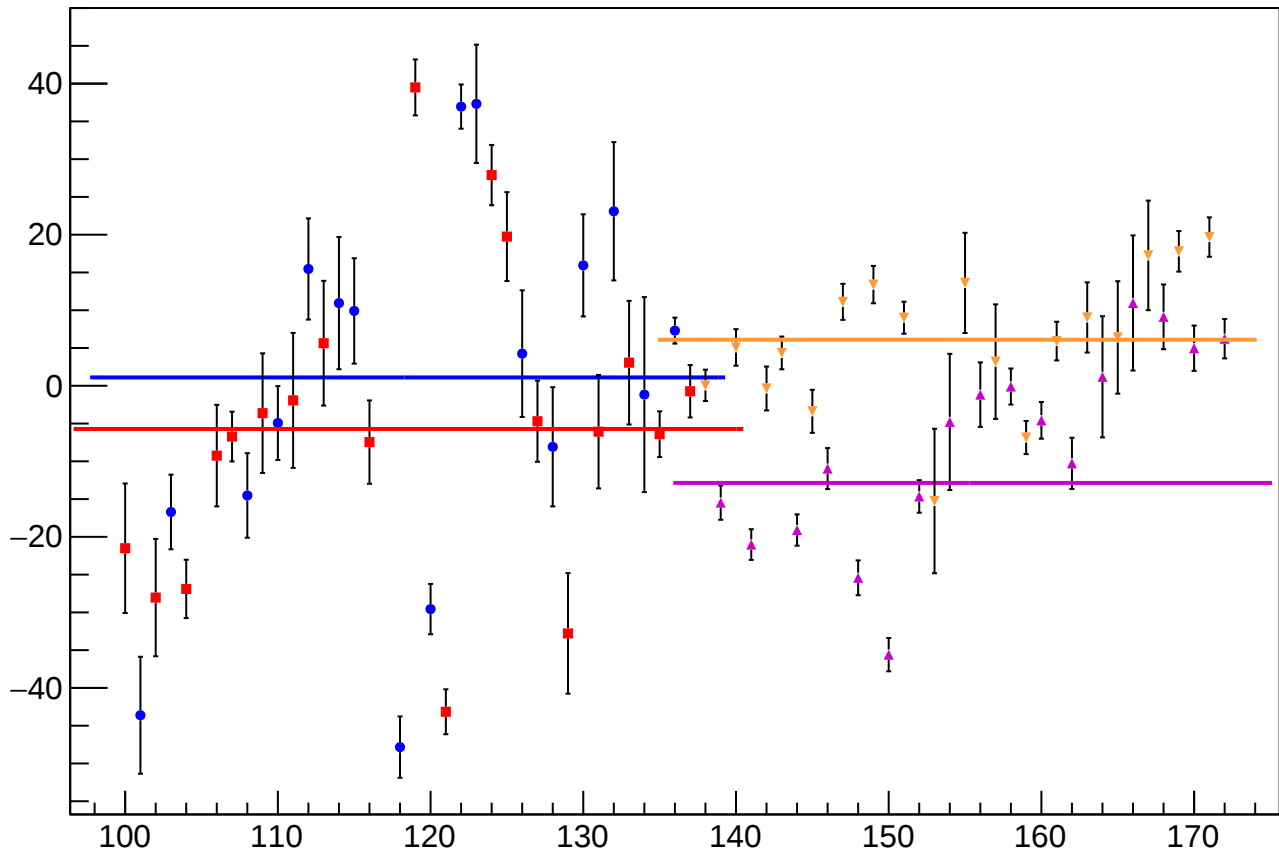
Right: 9654.635 ± 1.839 $\chi^2/\text{NDF}: 121662.9/35$

In: 9971.632 ± 1.584 $\chi^2/\text{NDF}: 148124.9/33$

Out: 9988.194 ± 1.561 $\chi^2/\text{NDF}: 242351.8/36$

All: 9980.034 ± 1.112 $\chi^2/\text{NDF}: 390532.2/70$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



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

Left Out: 6.093 ± 0.674 $\chi^2/\text{NDF}: 130.4/17$

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

Left In: -12.859 ± 0.666 $\chi^2/\text{NDF}: 338.3/16$

Left: -3.500 ± 0.474 $\chi^2/\text{NDF}: 868.4/34$

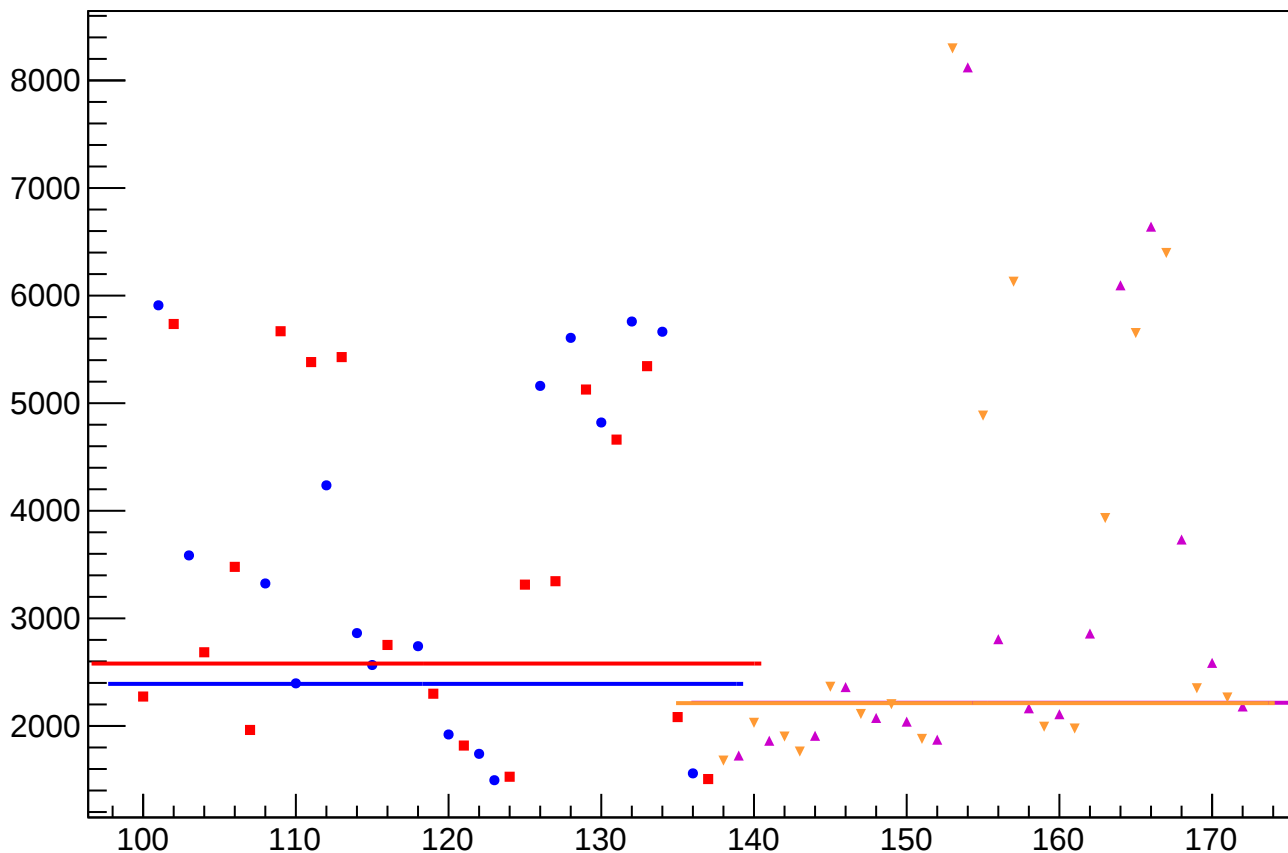
Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$

In: -8.939 ± 0.565 $\chi^2/\text{NDF}: 951.3/33$

Out: 2.828 ± 0.574 $\chi^2/\text{NDF}: 671.1/36$

All: -3.146 ± 0.403 $\chi^2/\text{NDF}: 1836.0/70$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2391.162 ± 0.754 $\chi^2/\text{NDF}: 2600547.2/16$

Left Out: 2212.222 ± 0.477 $\chi^2/\text{NDF}: 3389708.2/17$

Right Out: 2580.040 ± 0.772 $\chi^2/\text{NDF}: 2365271.4/18$

Left In: 2215.639 ± 0.471 $\chi^2/\text{NDF}: 2486905.6/16$

Left: 2213.951 ± 0.335 $\chi^2/\text{NDF}: 5876639.8/34$

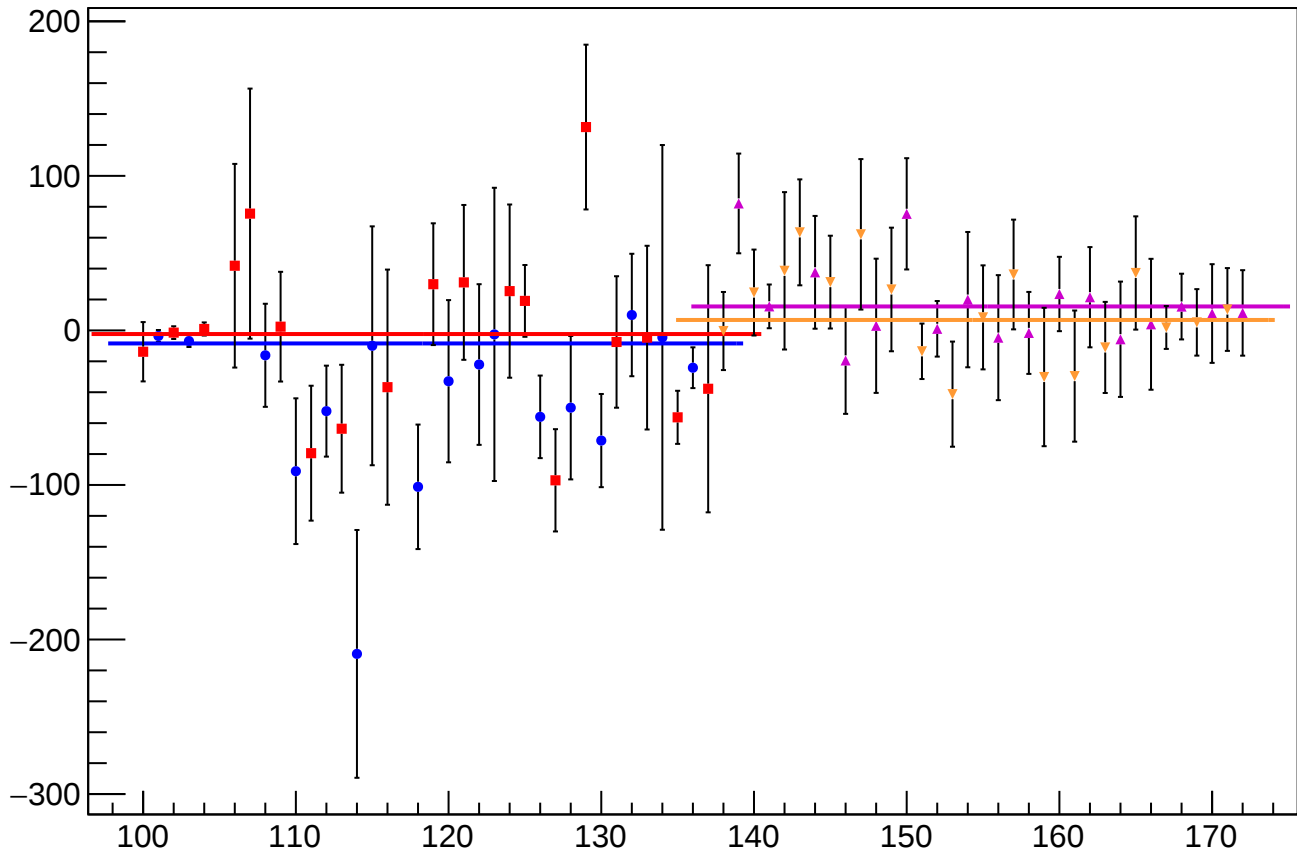
Right: 2483.443 ± 0.539 $\chi^2/\text{NDF}: 4996468.7/35$

In: 2264.906 ± 0.400 $\chi^2/\text{NDF}: 5126422.5/33$

Out: 2313.914 ± 0.406 $\chi^2/\text{NDF}: 5919420.2/36$

All: 2289.035 ± 0.285 $\chi^2/\text{NDF}: 11053251.3/70$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.430 ± 2.587 $\chi^2/\text{NDF}: 28.9/16$

Left Out: 6.760 ± 6.510 $\chi^2/\text{NDF}: 12.4/17$

Right Out: -2.348 ± 2.787 $\chi^2/\text{NDF}: 34.7/18$

Left In: 15.503 ± 6.601 $\chi^2/\text{NDF}: 10.4/16$

Left: 11.071 ± 4.635 $\chi^2/\text{NDF}: 23.7/34$

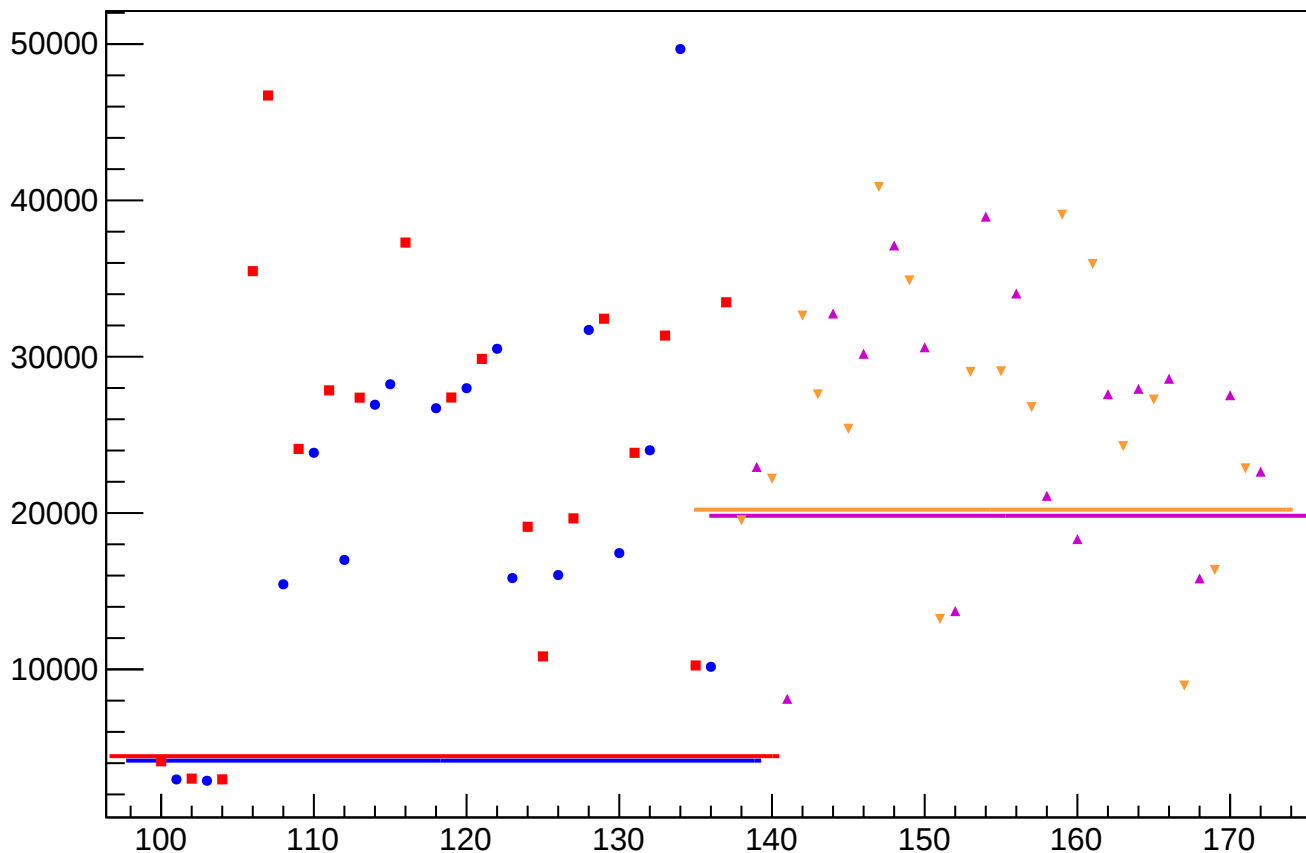
Right: -5.615 ± 1.896 $\chi^2/\text{NDF}: 66.1/35$

In: -5.243 ± 2.409 $\chi^2/\text{NDF}: 50.7/33$

Out: -0.938 ± 2.562 $\chi^2/\text{NDF}: 48.8/36$

All: -3.223 ± 1.755 $\chi^2/\text{NDF}: 101.0/70$

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4162.318 ± 1.830 $\chi^2/\text{NDF}: 5990070.5/16$

Left Out: 20219.079 ± 4.603 $\chi^2/\text{NDF}: 3696083.5/17$

Right Out: 4447.123 ± 1.971 $\chi^2/\text{NDF}: 7426930.4/18$

Left In: 19825.668 ± 4.668 $\chi^2/\text{NDF}: 3691776.8/16$

Left: 20025.106 ± 3.278 $\chi^2/\text{NDF}: 7391461.5/34$

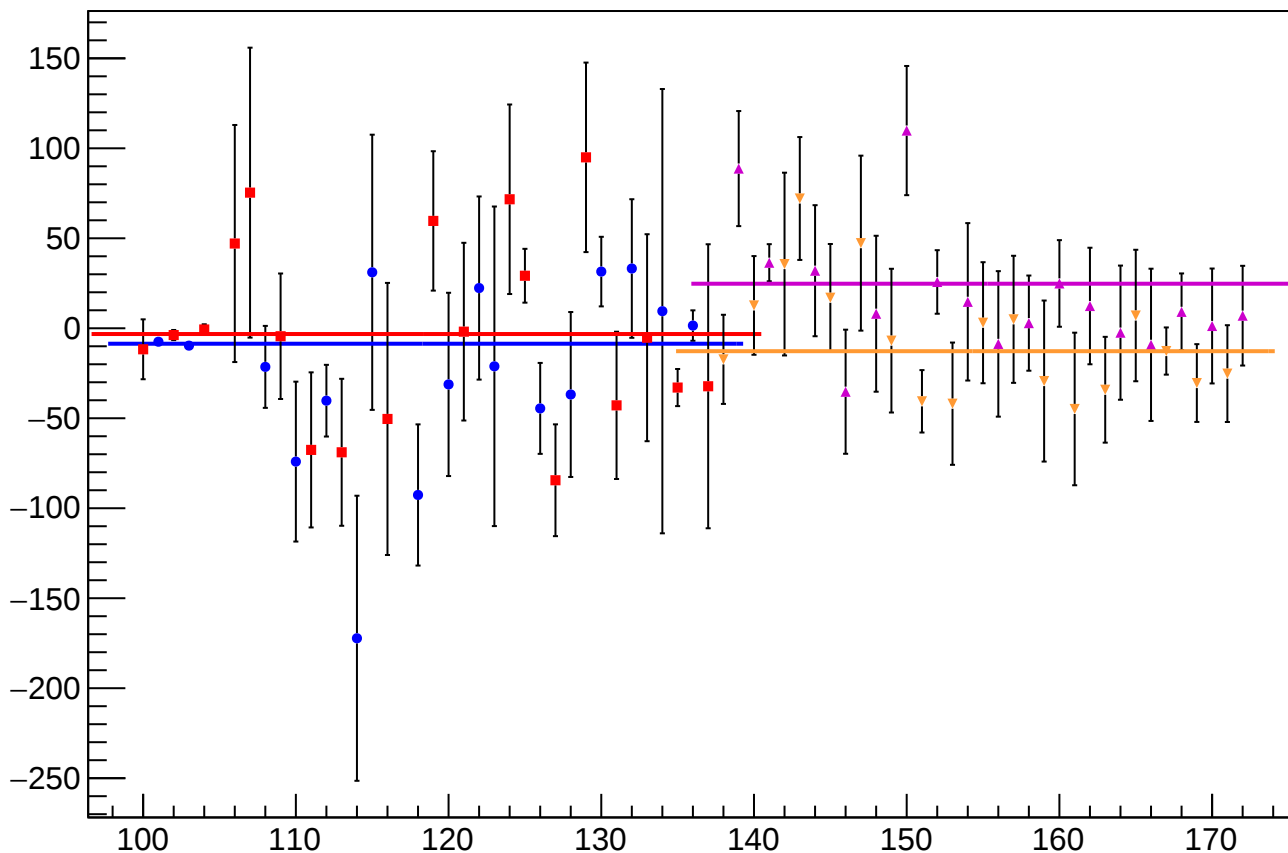
Right: 4294.168 ± 1.341 $\chi^2/\text{NDF}: 13428219.0/35$

In: 6248.308 ± 1.703 $\chi^2/\text{NDF}: 19442791.5/33$

Out: 6889.758 ± 1.812 $\chi^2/\text{NDF}: 21043957.2/36$

All: 6549.311 ± 1.241 $\chi^2/\text{NDF}: 40553291.1/7$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -12.734 $\pm$ 6.381 χ^2/NDF : 16.7/17

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

Left In: 24.756 $\pm$ 6.031 χ^2/NDF : 18.4/16

Left: 7.068 $\pm$ 4.383 χ^2/NDF : 53.3/34

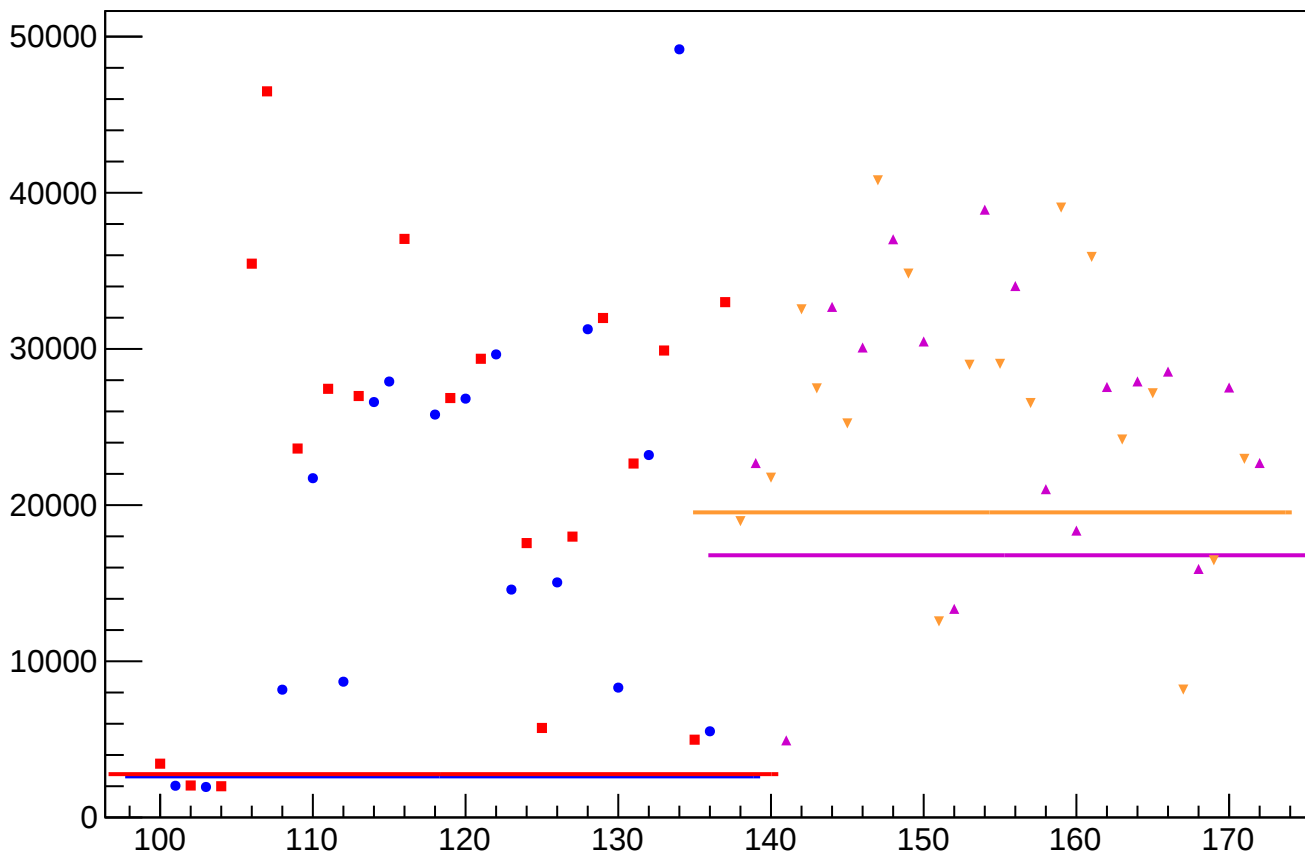
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -5.921 $\pm$ 1.705 χ^2/NDF : 70.9/33

Out: -3.988 $\pm$ 1.841 χ^2/NDF : 55.7/36

All: -5.028 $\pm$ 1.251 χ^2/NDF : 127.1/70

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2630.547+/-1.257 χ^2/NDF : 5588981.6/16

Left Out: 19535.009+/-4.512 χ^2/NDF : 4106508.4/17

Right Out: 2773.446+/-1.359 χ^2/NDF : 7835878.7/18

Left In: 16788.226+/-4.264 χ^2/NDF : 6003687.8/16

Left: 18084.195+/-3.099 χ^2/NDF : 10305959.1/34

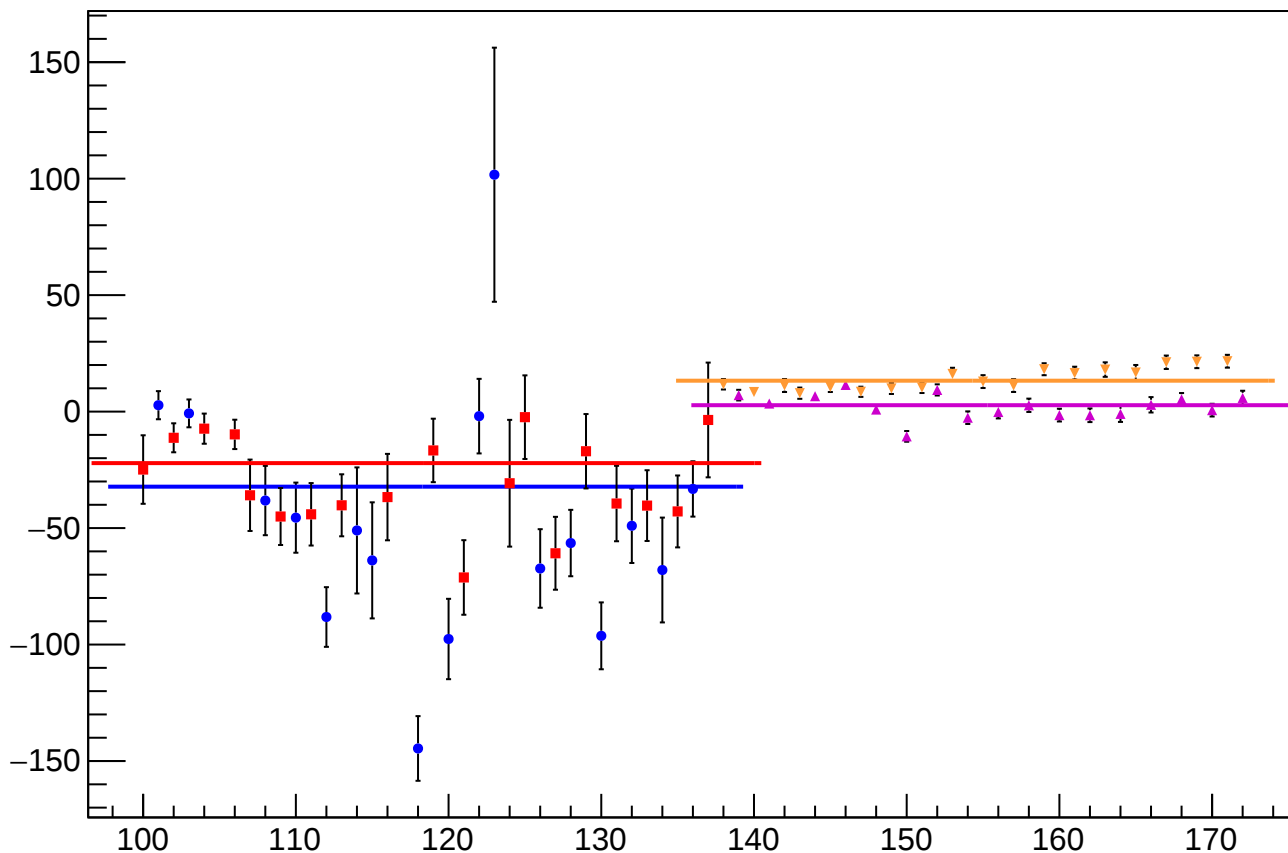
Right: 2696.425+/-0.923 χ^2/NDF : 13430817.7/35

In: 3762.494+/-1.206 χ^2/NDF : 21734251.8/33

Out: 4168.095+/-1.301 χ^2/NDF : 24595443.2/36

All: 3949.837+/-0.884 χ^2/NDF : 46381960.1/71

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.222 $\pm$ 2.981 χ^2/NDF : 203.7/16

Left Out: 13.268 $\pm$ 0.602 χ^2/NDF :56.6/17

Right Out: -22.111 $\pm$ 2.669 χ^2/NDF : 43.7/18

Left In: 2.750 $\pm$ 0.615 χ^2/NDF :79.8/16

Left: 8.120 $\pm$ 0.430 χ^2/NDF : 285.9/34

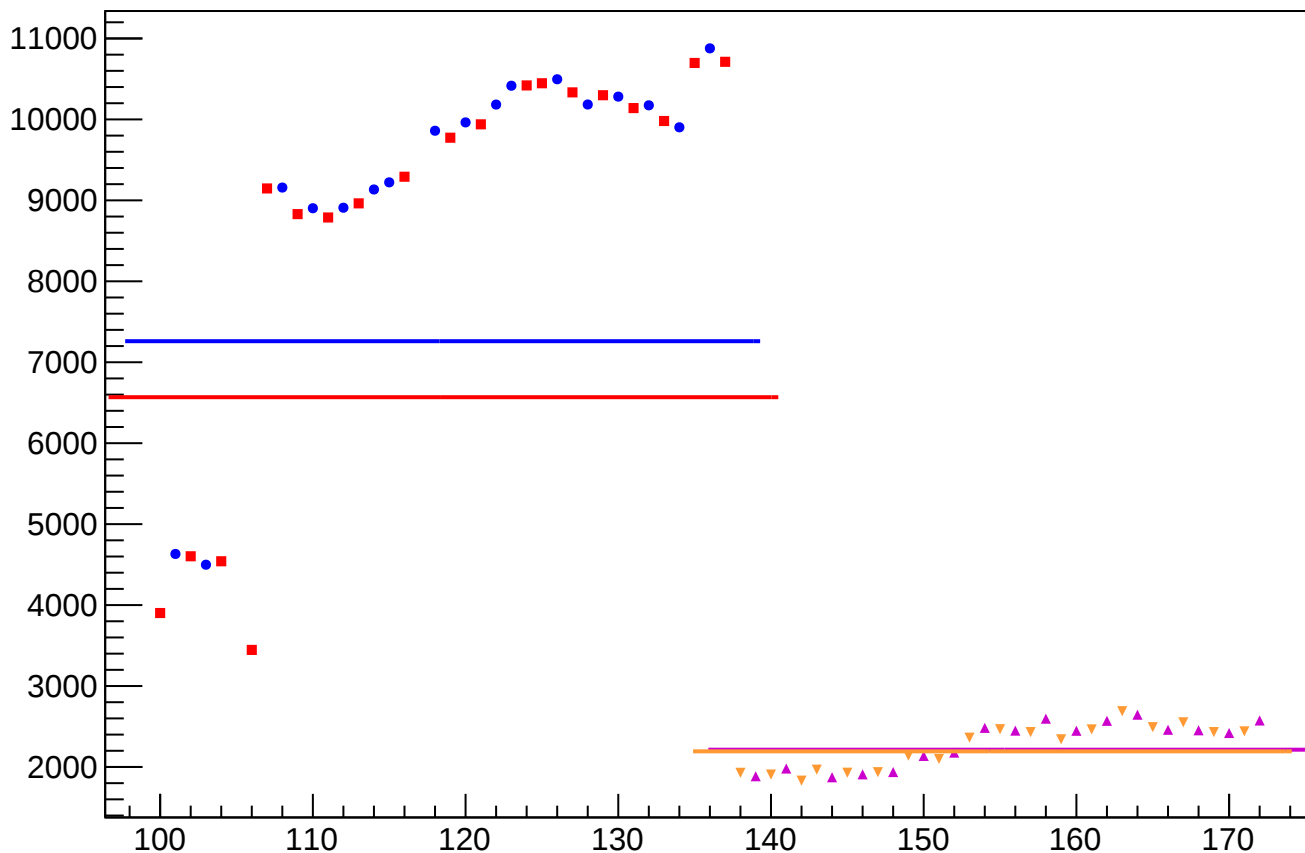
Right: -26.609 $\pm$ 1.989 χ^2/NDF : 253.7/35

In: 1.324 $\pm$ 0.602 χ^2/NDF :415.4/33

Out: 11.556 $\pm$ 0.587 χ^2/NDF :267.5/36

All: 6.568 $\pm$ 0.420 χ^2/NDF : 830.9/70

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2193.322+/-0.426 χ^2/NDF : 374044.4/17

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

Left In: 2213.527+/-0.435 χ^2/NDF : 410247.6/16

Left: 2203.211+/-0.304 χ^2/NDF : 785395.2/34

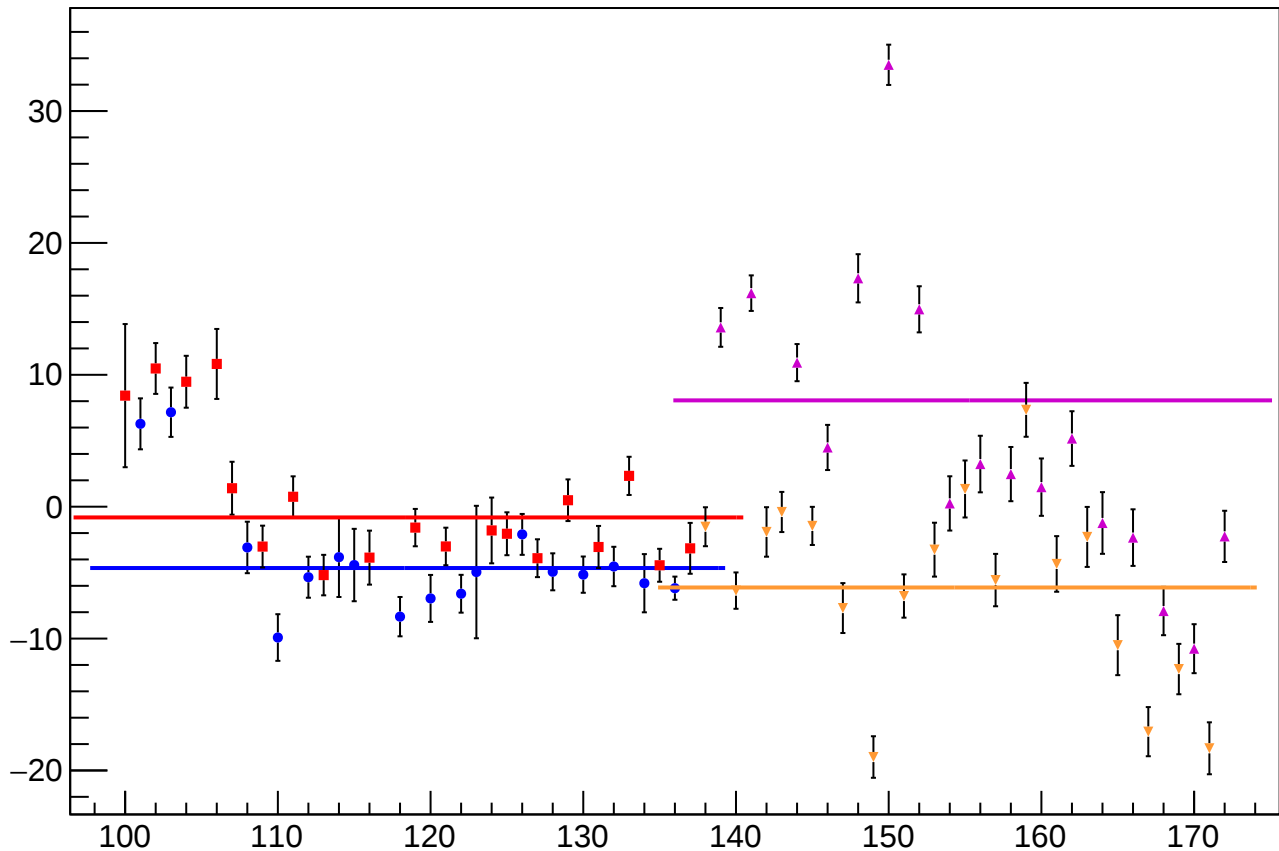
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

In: 2419.306+/-0.426 χ^2/NDF : 7543292.0/33

Out: 2404.980+/-0.415 χ^2/NDF : 7682988.0/36

All: 2411.964+/-0.297 χ^2/NDF : 15226860.4/71

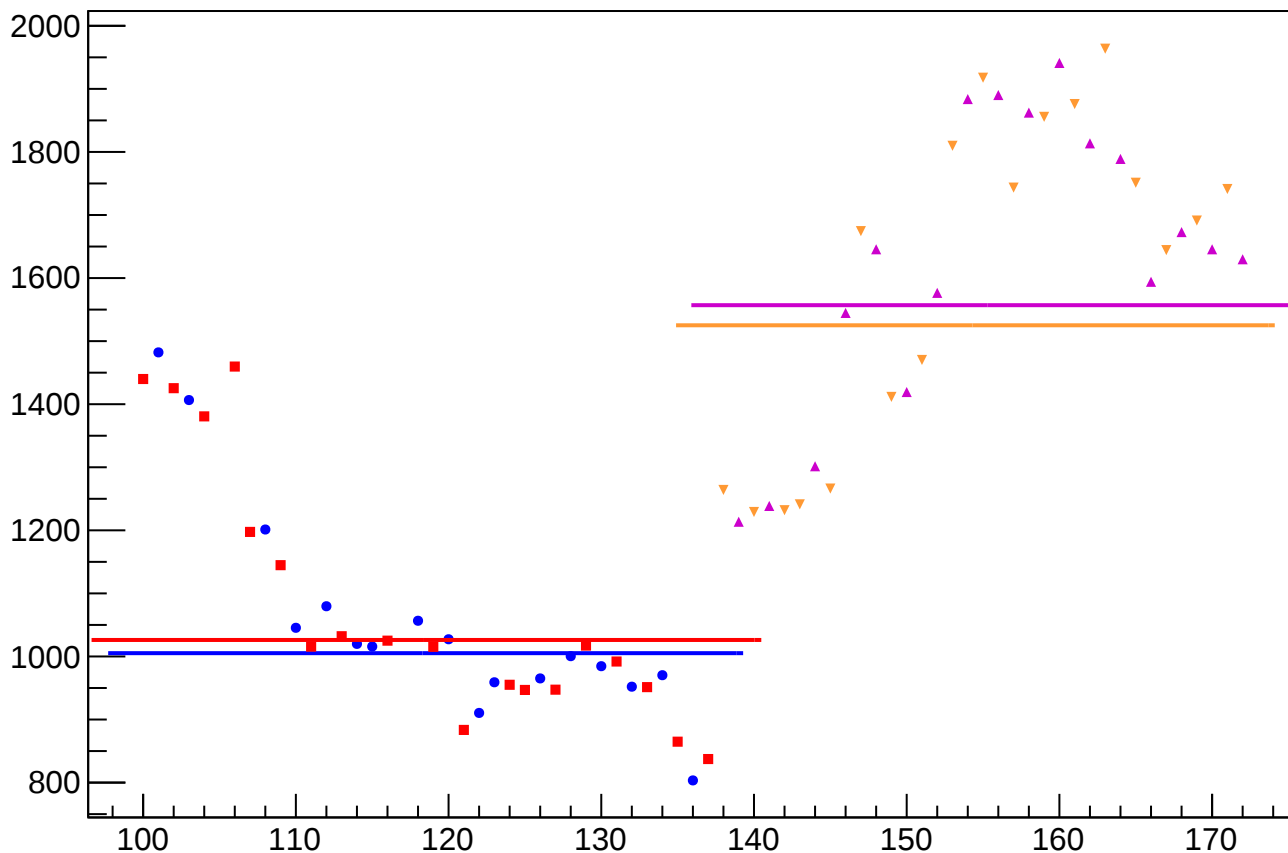
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -6.126 ± 0.422 $\chi^2/\text{NDF}: 254.8/17$
 Right Out: -0.814 ± 0.388 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 8.061 ± 0.434 $\chi^2/\text{NDF}: 662.1/16$

Left: 0.766 ± 0.303 $\chi^2/\text{NDF}: 1465.5/34$
 Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$
 In: 1.066 ± 0.291 $\chi^2/\text{NDF}: 1231.1/33$
 Out: -3.250 ± 0.286 $\chi^2/\text{NDF}: 464.2/36$
 All: -1.132 ± 0.204 $\chi^2/\text{NDF}: 1807.1/70$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Left: 1540.612 +/- 0.214 χ^2/NDF : 1325269.0/34

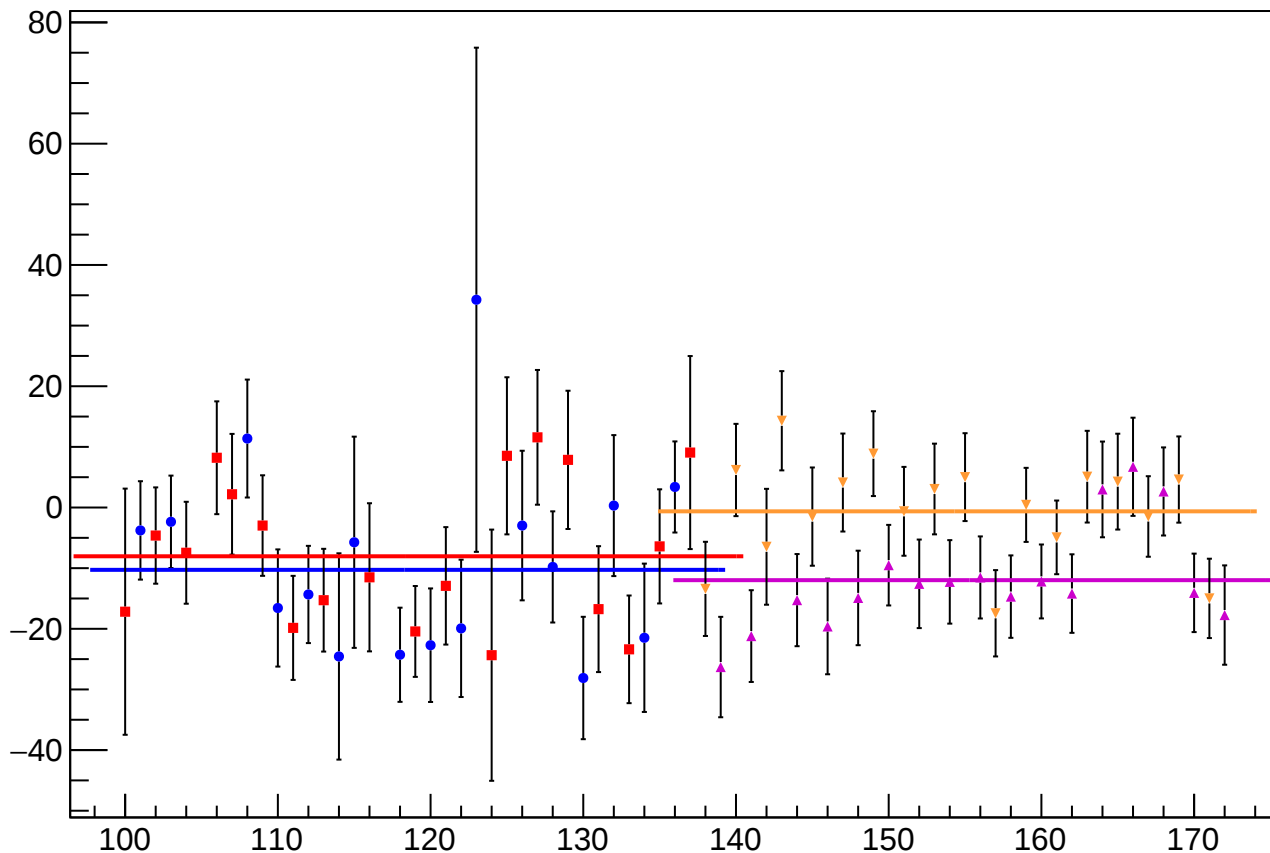
Right: 1015.803 +/- 0.195 χ^2/NDF : 697945.4/35

In: 1253.352 +/- 0.206 χ^2/NDF : 2717351.8/33

Out: 1254.953 +/- 0.202 χ^2/NDF : 2586450.9/36

All: 1254.168 +/- 0.144 χ^2/NDF : 5303833.5/70

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.629 $\pm$ 1.717 χ^2/NDF : 22.7/17

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

Left In: -11.979 $\pm$ 1.747 χ^2/NDF : 19.8/16

Left: -6.206 $\pm$ 1.224 χ^2/NDF : 64.0/34

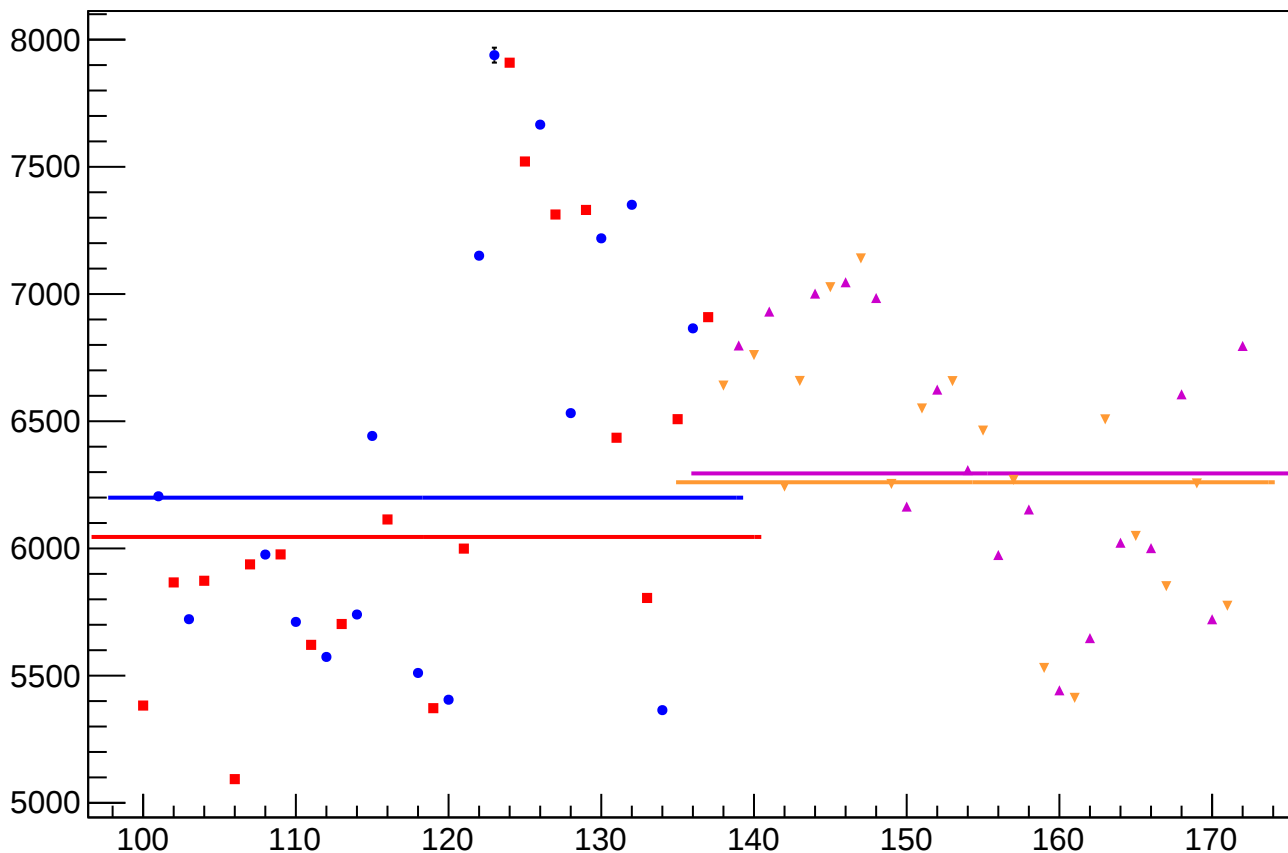
Right: -9.097 $\pm$ 1.655 χ^2/NDF : 46.7/35

In: -11.393 $\pm$ 1.414 χ^2/NDF : 43.6/33

Out: -3.313 $\pm$ 1.371 χ^2/NDF : 52.2/36

All: -7.229 $\pm$ 0.984 χ^2/NDF : 112.6/70

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6260.163 $\pm$ 1.214 χ^2/NDF : 159805.3/17

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

Left In: 6294.920 $\pm$ 1.235 χ^2/NDF : 173841.9/16

Left: 6277.241 $\pm$ 0.866 χ^2/NDF : 334050.0/34

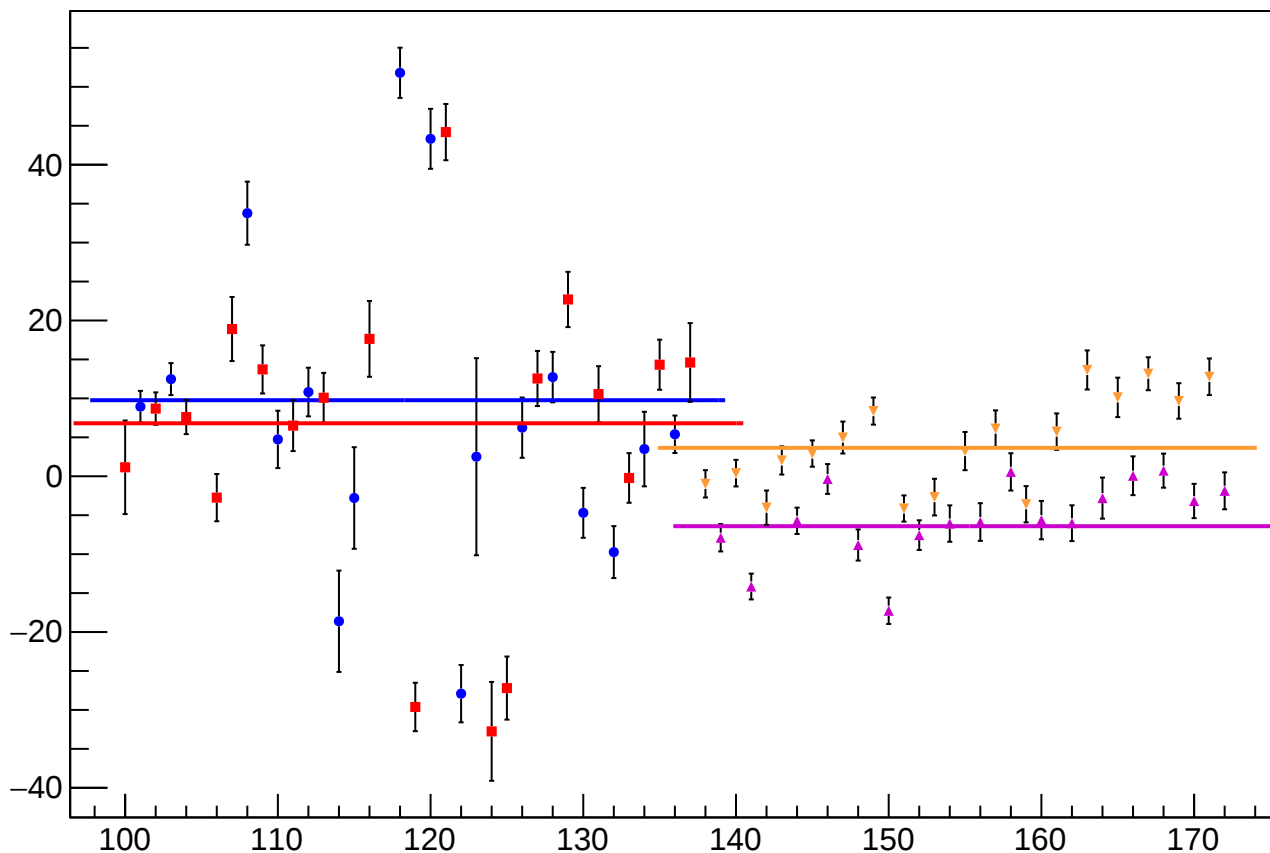
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

In: 6262.059 $\pm$ 1.000 χ^2/NDF : 347655.2/33

Out: 6182.304 $\pm$ 0.970 χ^2/NDF : 329486.9/36

All: 6220.958 $\pm$ 0.696 χ^2/NDF : 680421.7/70

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.764 ± 0.797 χ^2/NDF : 473.8/16

Left Out: 3.645 ± 0.485 χ^2/NDF : 136.4/17

Right Out: 6.801 ± 0.765 χ^2/NDF : 421.8/18

Left In: -6.411 ± 0.502 χ^2/NDF : 109.3/16

Left: -1.204 ± 0.349 χ^2/NDF : 453.3/34

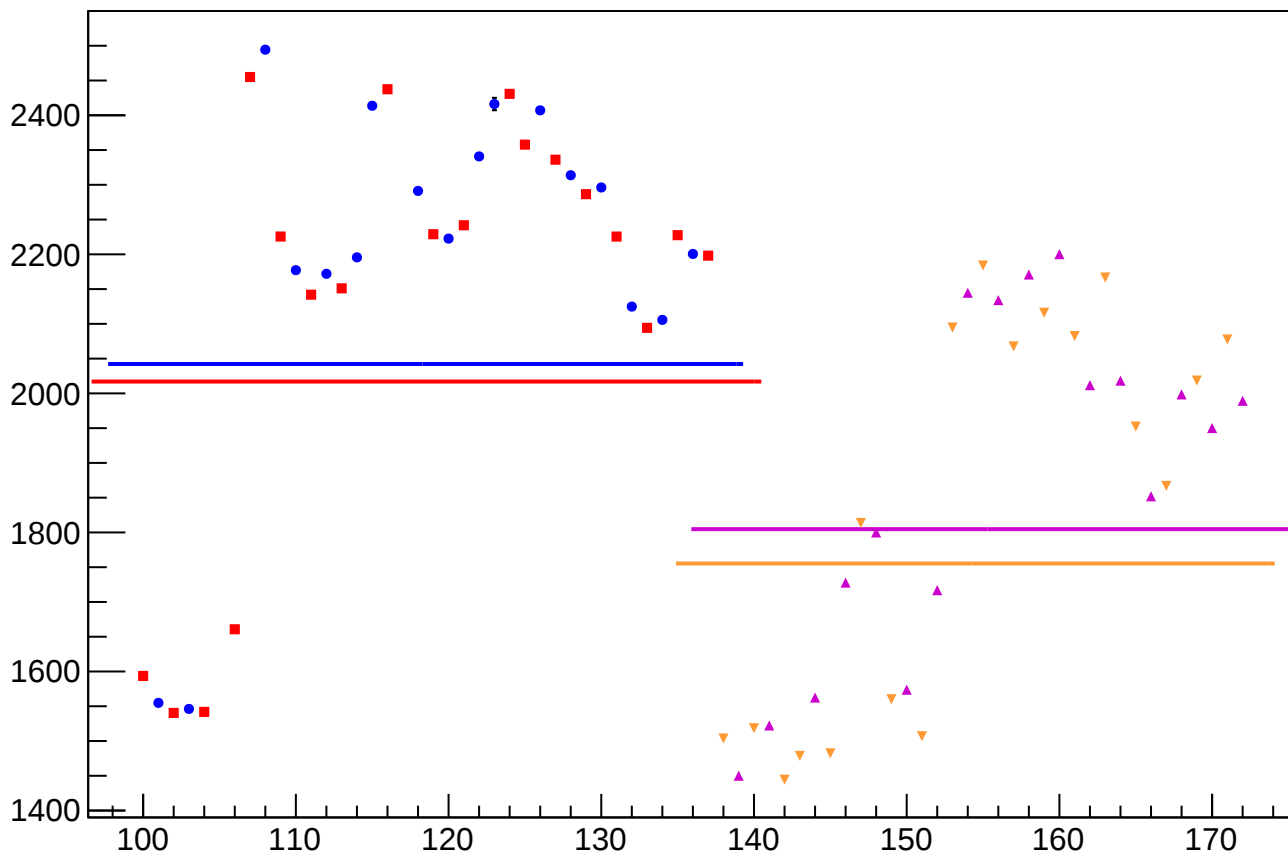
Right: 8.222 ± 0.552 χ^2/NDF : 902.8/35

In: -1.812 ± 0.425 χ^2/NDF : 878.0/33

Out: 4.549 ± 0.409 χ^2/NDF : 570.4/36

All: 1.487 ± 0.295 χ^2/NDF : 1564.6/70

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1755.342 $\pm$ 0.343 χ^2 /NDF: 649465.2/17

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

Left In: 1804.730 $\pm$ 0.355 χ^2 /NDF: 469415.4/16

Left: 1779.155 $\pm$ 0.247 χ^2 /NDF: 1128892.5/34

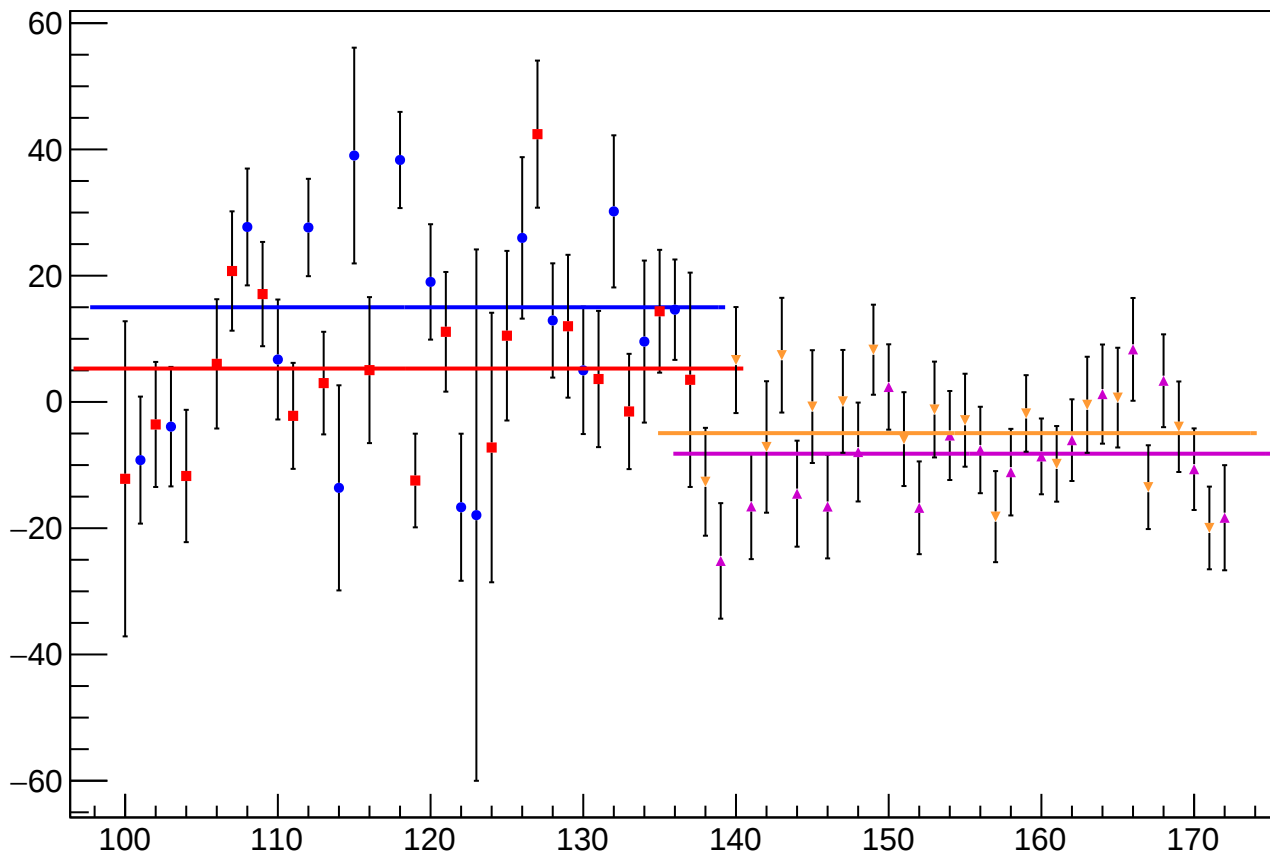
Right: 2029.129 $\pm$ 0.390 χ^2 /NDF: 733495.1/35

In: 1872.278 $\pm$ 0.300 χ^2 /NDF: 953422.9/33

Out: 1830.335 $\pm$ 0.289 χ^2 /NDF: 1192157.9/36

All: 1850.526 $\pm$ 0.208 χ^2 /NDF: 2155686.4/70

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

Left Out: -4.942 ± 1.758 $\chi^2/\text{NDF}: 21.1/17$

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

Left In: -8.200 ± 1.783 $\chi^2/\text{NDF}: 20.0/16$

Left: -6.548 ± 1.252 $\chi^2/\text{NDF}: 42.7/34$

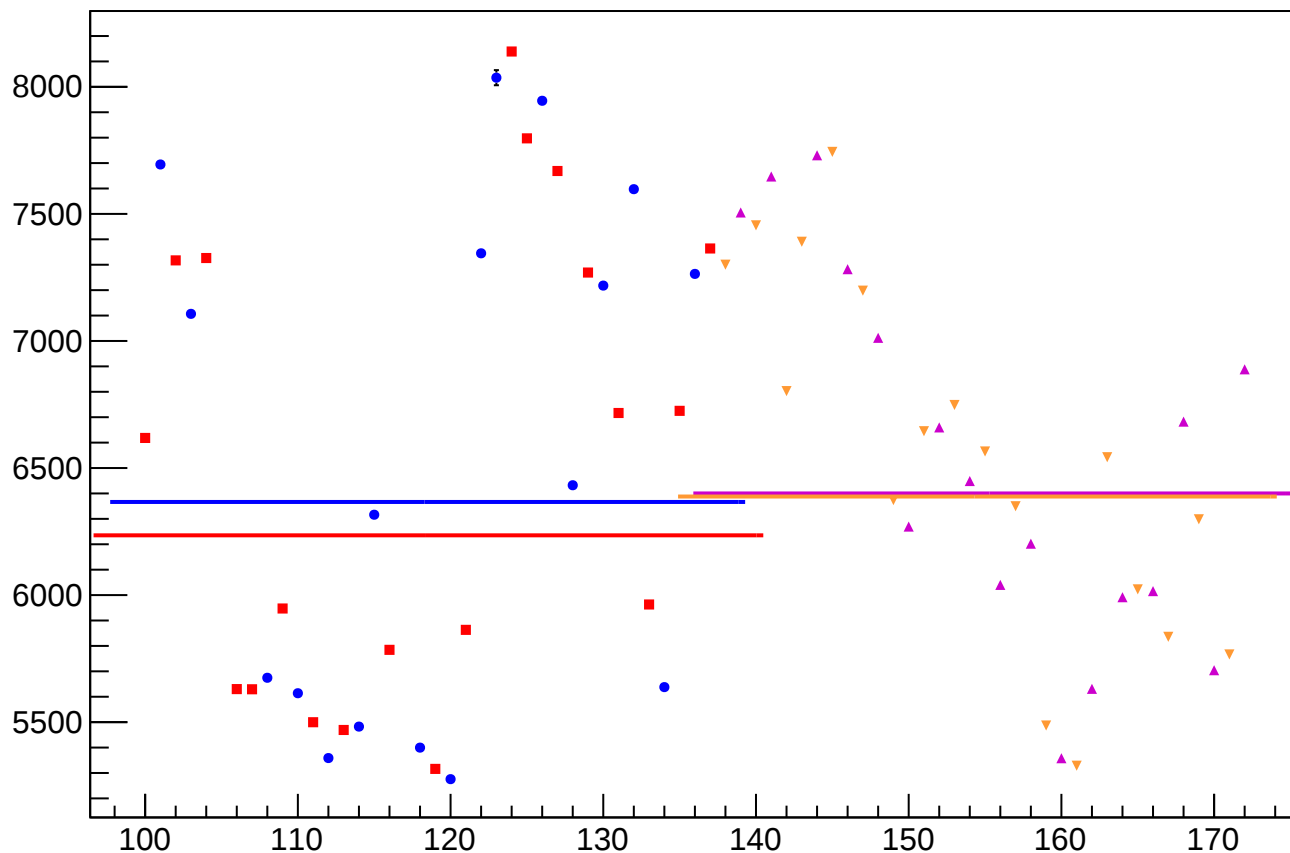
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: -0.317 ± 1.449 $\chi^2/\text{NDF}: 118.8/33$

Out: -1.284 ± 1.409 $\chi^2/\text{NDF}: 61.2/36$

All: -0.814 ± 1.010 $\chi^2/\text{NDF}: 180.3/70$

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6387.875+/-1.243 χ^2/NDF : 300586.4/17

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

Left In: 6399.942+/-1.261 χ^2/NDF : 301256.6/16

Left: 6393.824+/-0.885 χ^2/NDF : 601889.5/34

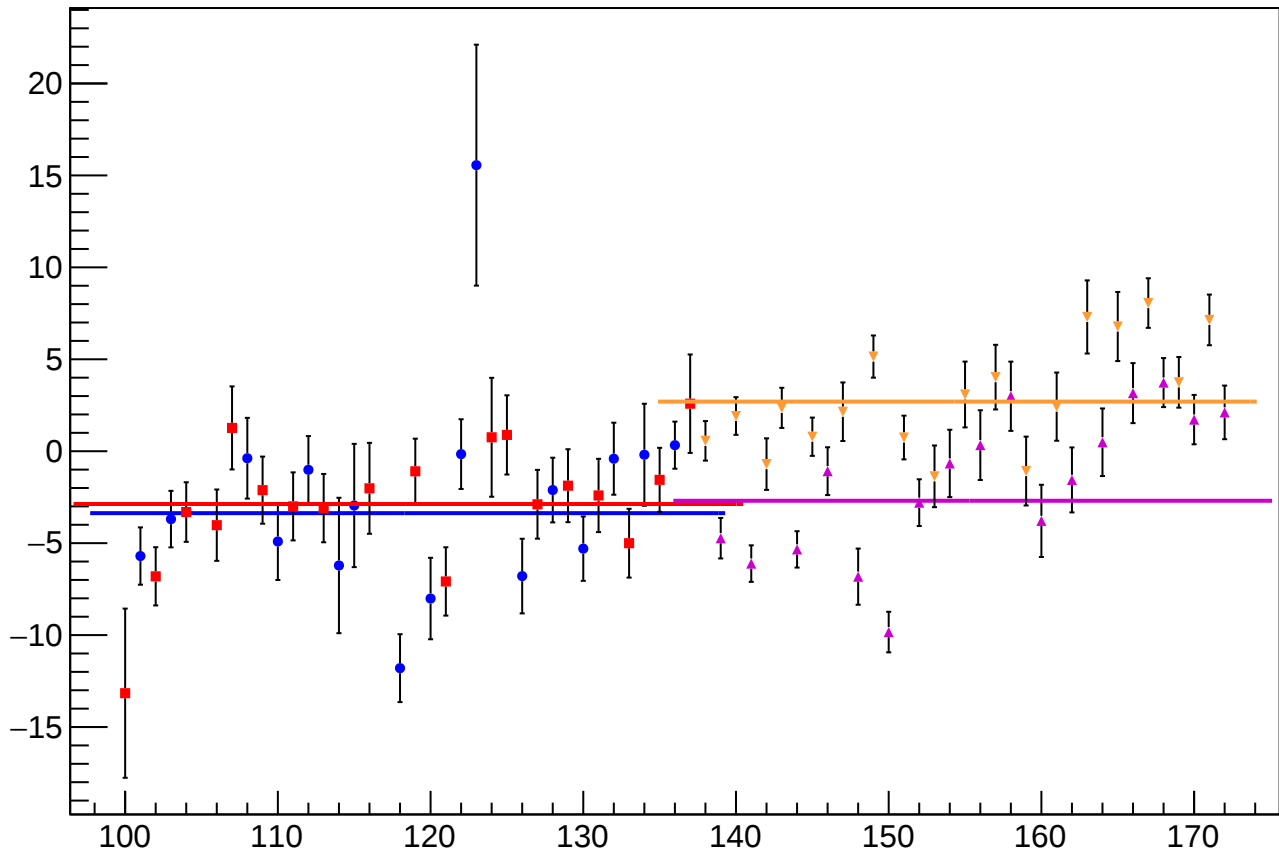
Right: 6297.369+/-1.209 χ^2/NDF : 532637.5/35

In: 6388.575+/-1.024 χ^2/NDF : 587990.4/33

Out: 6333.290+/-0.997 χ^2/NDF : 549181.9/36

All: 6360.172+/-0.714 χ^2/NDF : 1138668.5/70

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Left: 0.095 $\pm$ 0.231 χ^2/NDF : 351.8/34

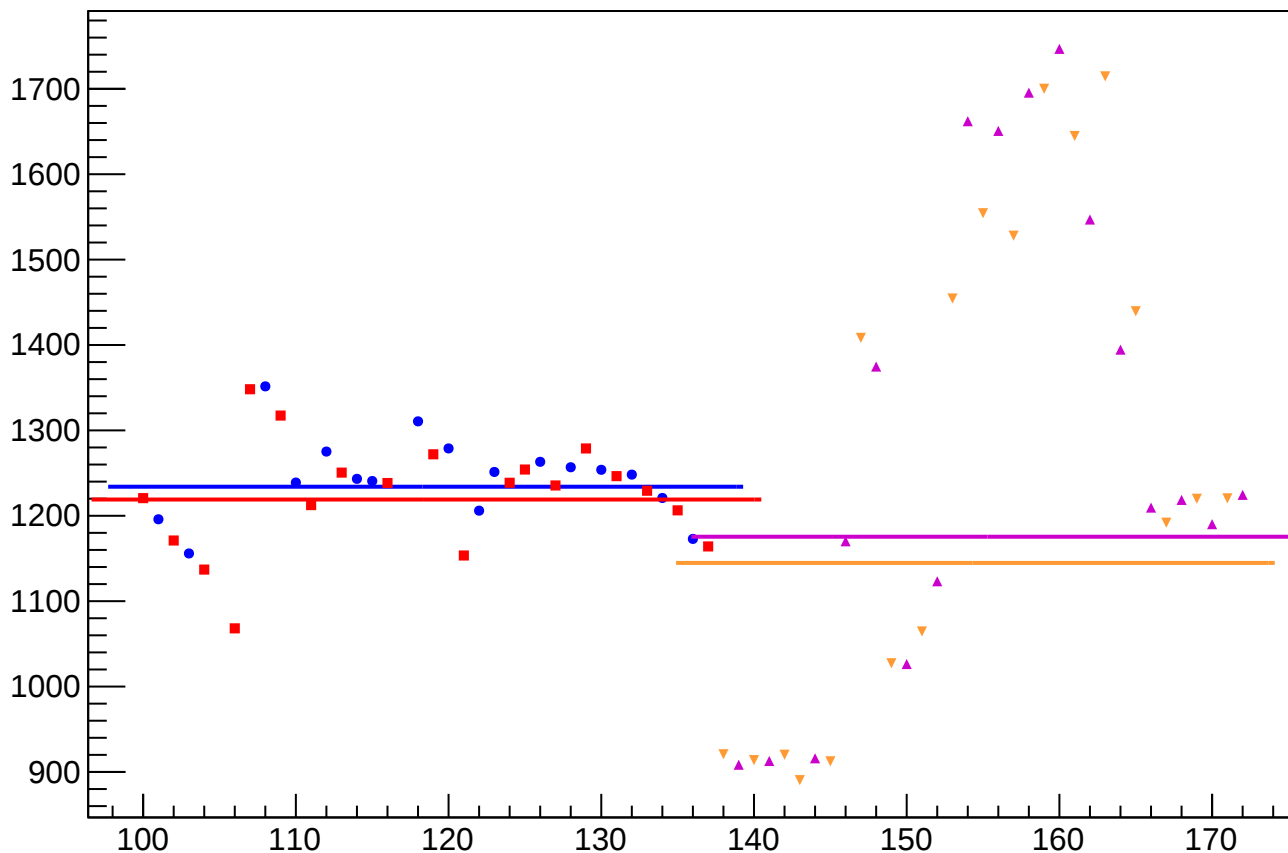
Right: -3.109 $\pm$ 0.329 χ^2/NDF : 92.5/35

In: -2.916 $\pm$ 0.273 χ^2/NDF : 208.7/33

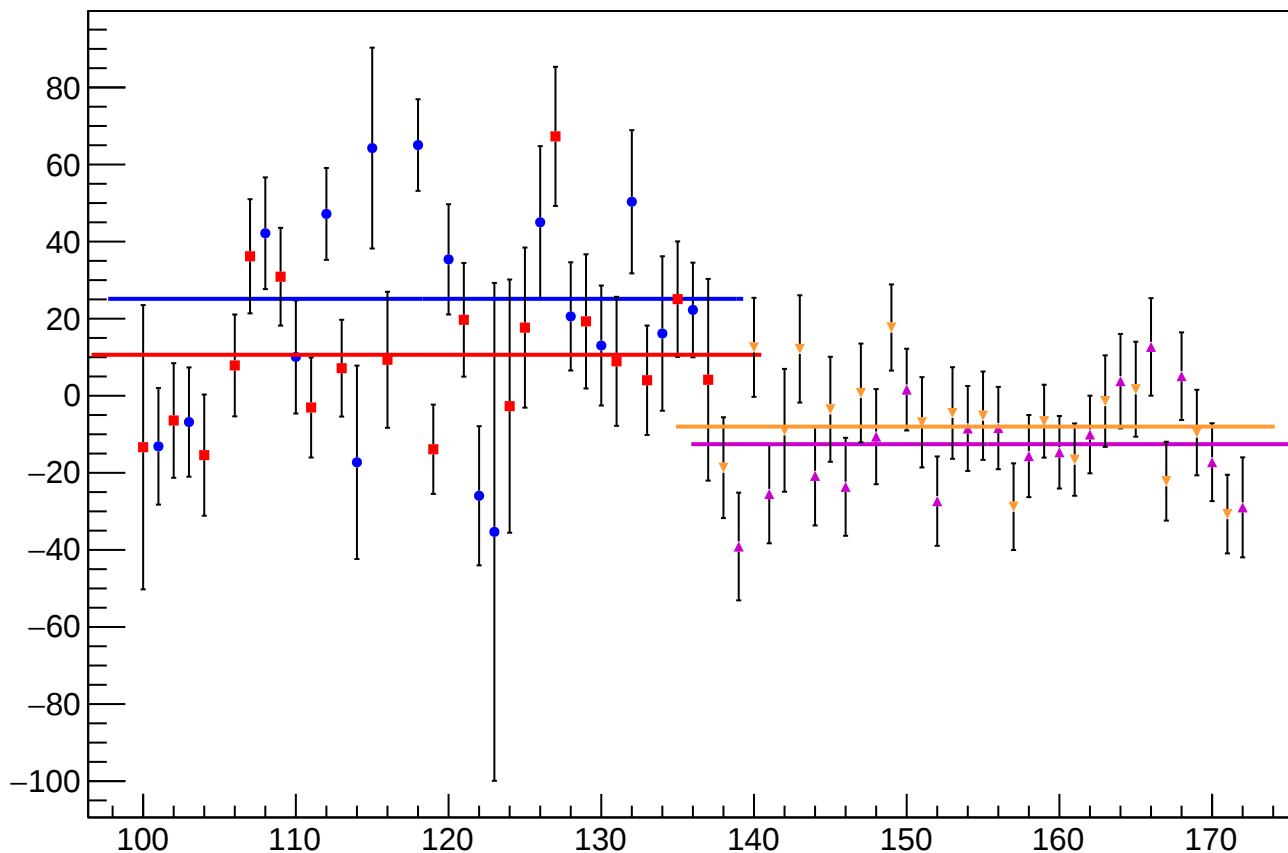
Out: 0.850 $\pm$ 0.263 χ^2/NDF : 200.2/36

All: -0.964 $\pm$ 0.189 χ^2/NDF : 507.7/70

diff_bpm0l06Y_rms vs Slug, Sign Corrected



diff_bpm0l07X_mean vs Slug, Sign Corrected



Left: -10.253 ± 1.948 χ^2/NDF : 44.5/34

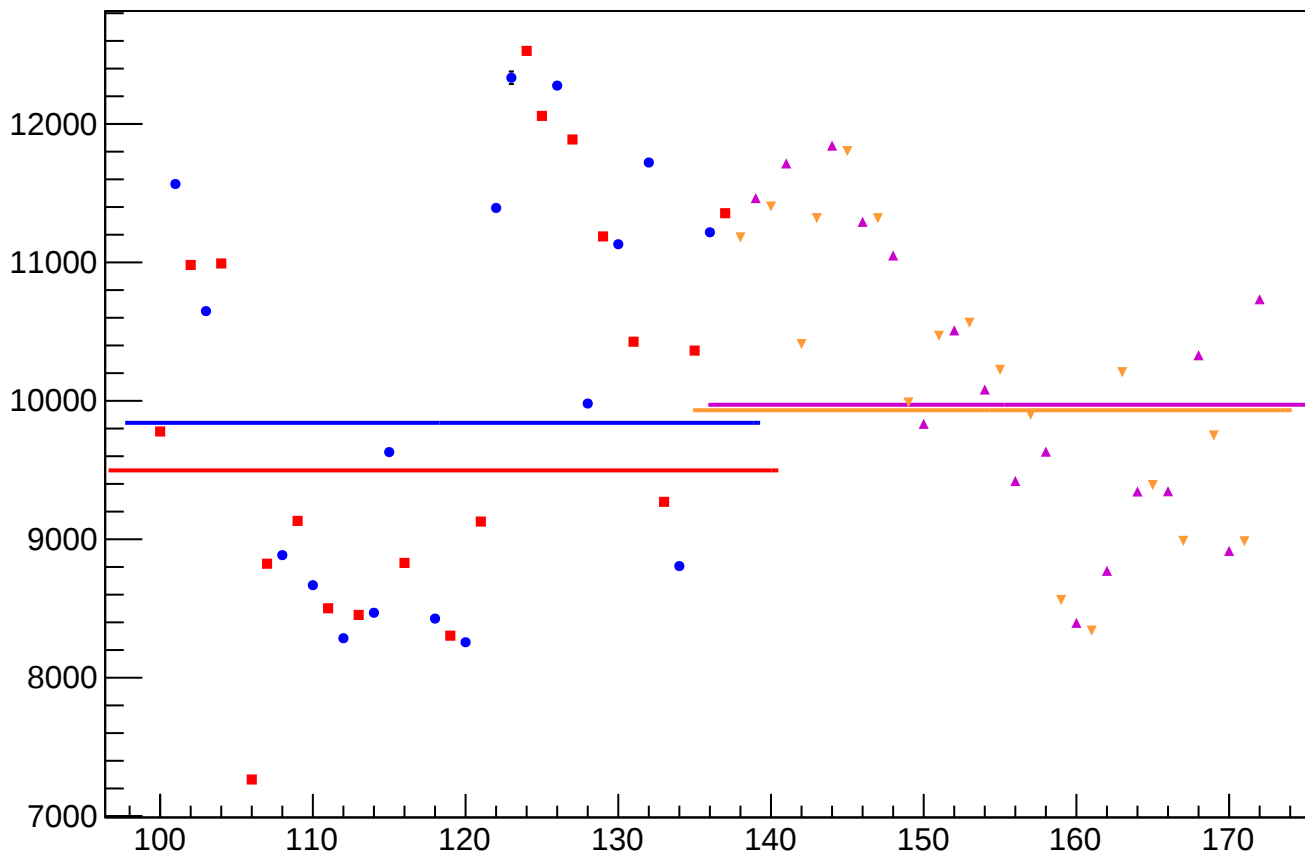
Right: 17.418 ± 2.623 χ^2/NDF : 82.3/35

In: 0.393 ± 2.249 χ^2/NDF : 130.0/33

Out: -1.180 ± 2.176 χ^2/NDF : 68.2/36

All: -0.420 ± 1.564 χ^2/NDF : 198.5/70

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 9932.250 ± 1.933 $\chi^2/\text{NDF}: 277871.2/17$

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

Left In: 9971.645 ± 1.963 $\chi^2/\text{NDF}: 276613.5/16$

Left: 9951.637 ± 1.377 $\chi^2/\text{NDF}: 554689.3/34$

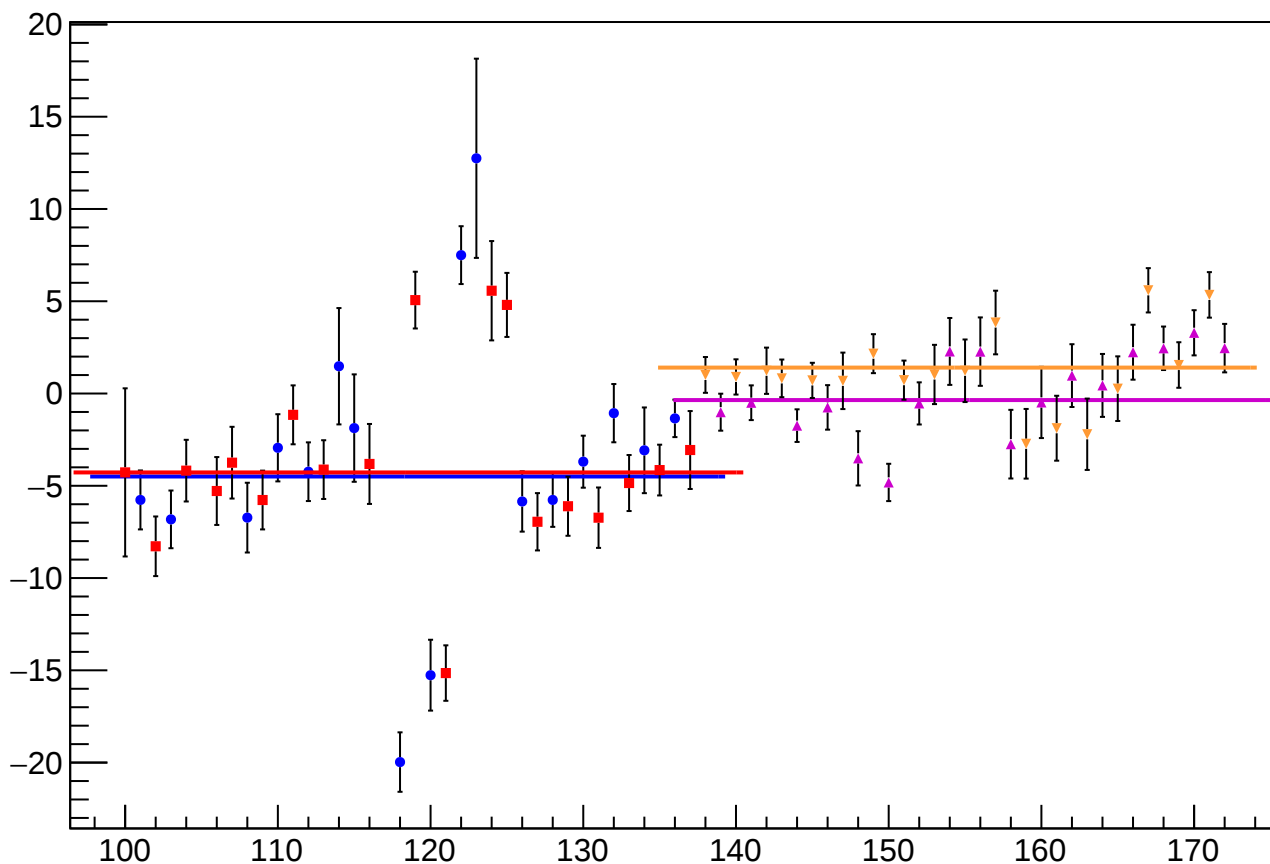
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

In: 9926.811 ± 1.591 $\chi^2/\text{NDF}: 538193.4/33$

Out: 9772.988 ± 1.538 $\chi^2/\text{NDF}: 573110.9/36$

All: 9847.333 ± 1.106 $\chi^2/\text{NDF}: 1116136.4/70$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 1.405 ± 0.297 χ^2/NDF : 39.1/17

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

Left In: -0.355 ± 0.308 χ^2/NDF : 55.9/16

Left: 0.556 ± 0.214 χ^2/NDF : 112.0/34

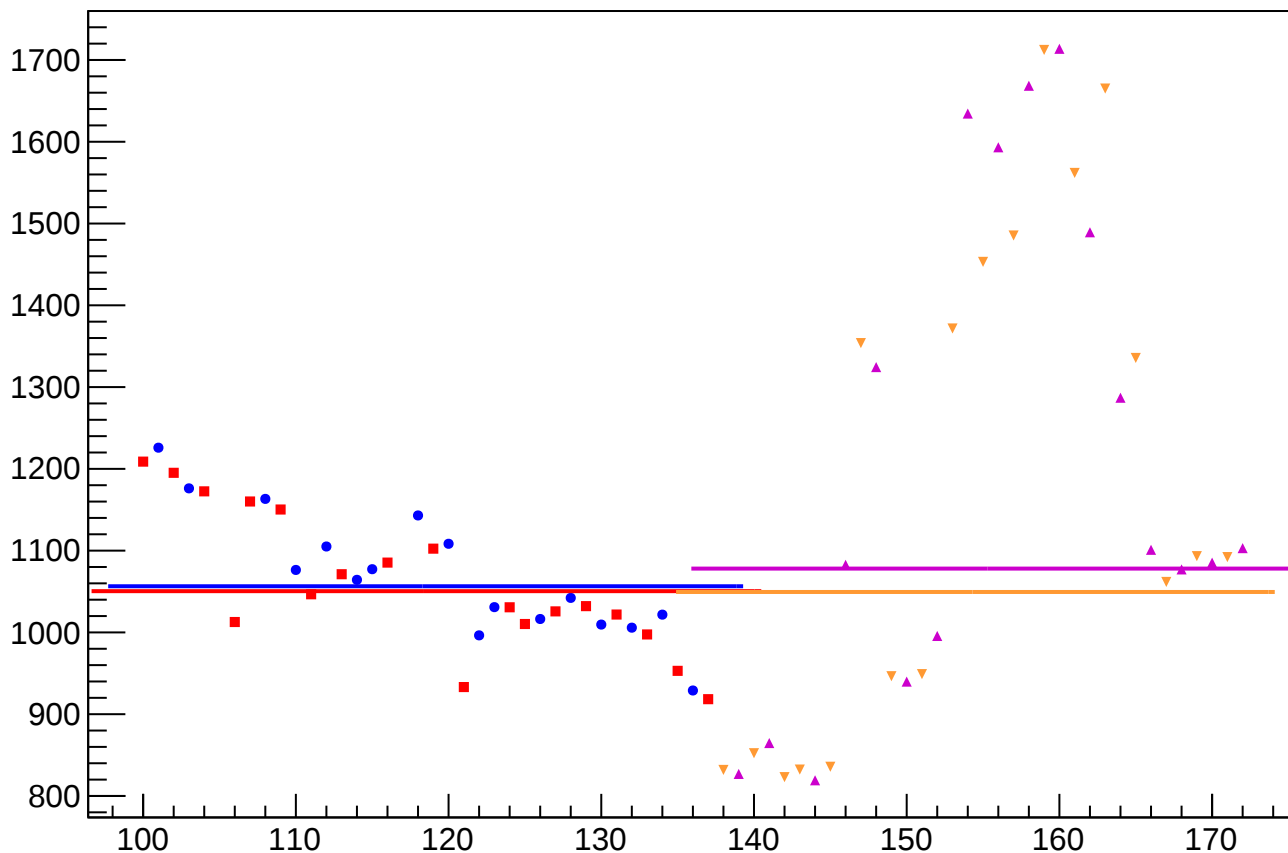
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -1.856 ± 0.246 χ^2/NDF : 340.0/33

Out: -0.653 ± 0.237 χ^2/NDF : 320.0/36

All: -1.233 ± 0.171 χ^2/NDF : 672.4/70

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1049.456 $\pm$ 0.210 χ^2 /NDF:1557908.9/17

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

Left In: 1078.042 $\pm$ 0.218 χ^2 /NDF:1413125.5/16

Left: 1063.235 $\pm$ 0.151 χ^2 /NDF: 2979973.6/34

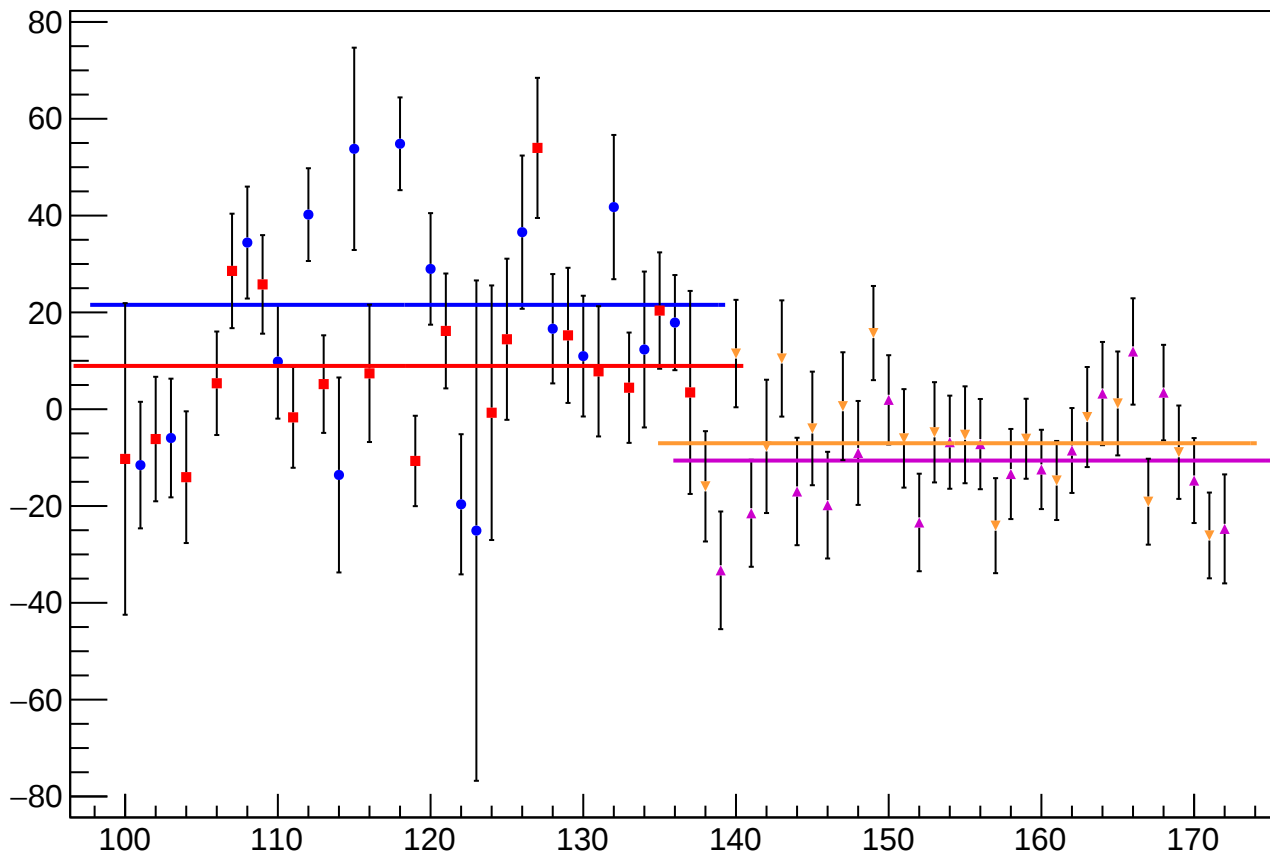
Right: 1053.333 $\pm$ 0.200 χ^2 /NDF: 173392.8/35

In: 1070.211 $\pm$ 0.174 χ^2 /NDF:1507471.6/33

Out: 1049.814 $\pm$ 0.168 χ^2 /NDF:1640313.4/36

All: 1059.647 $\pm$ 0.121 χ^2 /NDF: 3154922.8/70

diff_bpm0l08X_mean vs Slug, Sign Corrected



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

Left Out: -7.030 $\pm$ 2.376 χ^2 /NDF:22.9/17

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

Left In: -10.609 $\pm$ 2.414 χ^2 /NDF:19.2/16

Left: -8.791 $\pm$ 1.693 χ^2 /NDF: 43.2/34

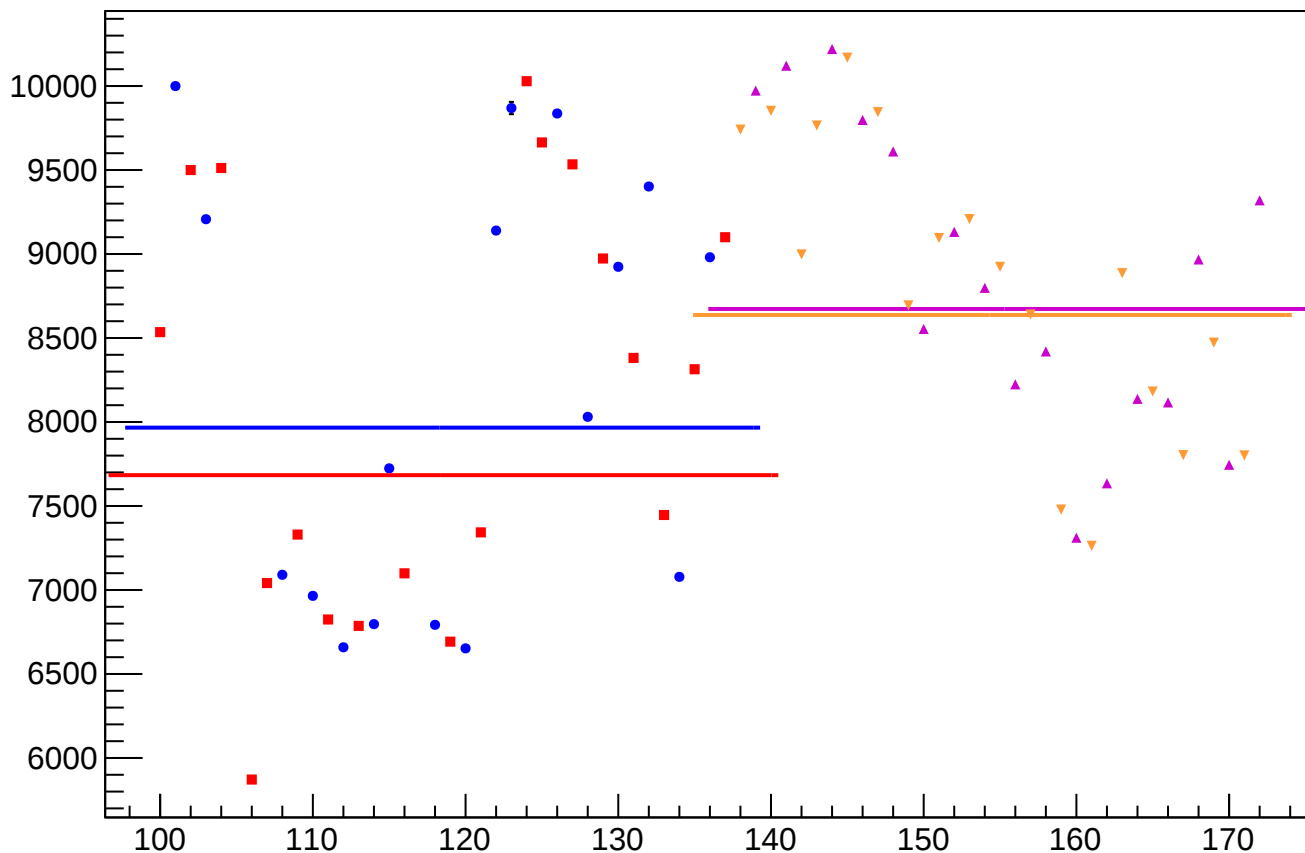
Right: 14.837 $\pm$ 2.126 χ^2 /NDF: 84.6/35

In: 1.486 $\pm$ 1.907 χ^2 /NDF:134.3/33

Out: -0.645 $\pm$ 1.841 χ^2 /NDF:68.4/36

All: 0.383 $\pm$ 1.325 χ^2 /NDF: 203.4/70

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8637.085 +/- 1.680 χ^2/NDF : 267875.8/17

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

Left In: 8672.881 +/- 1.707 χ^2/NDF : 267286.8/16

Left: 8654.698 +/- 1.197 χ^2/NDF : 535385.9/34

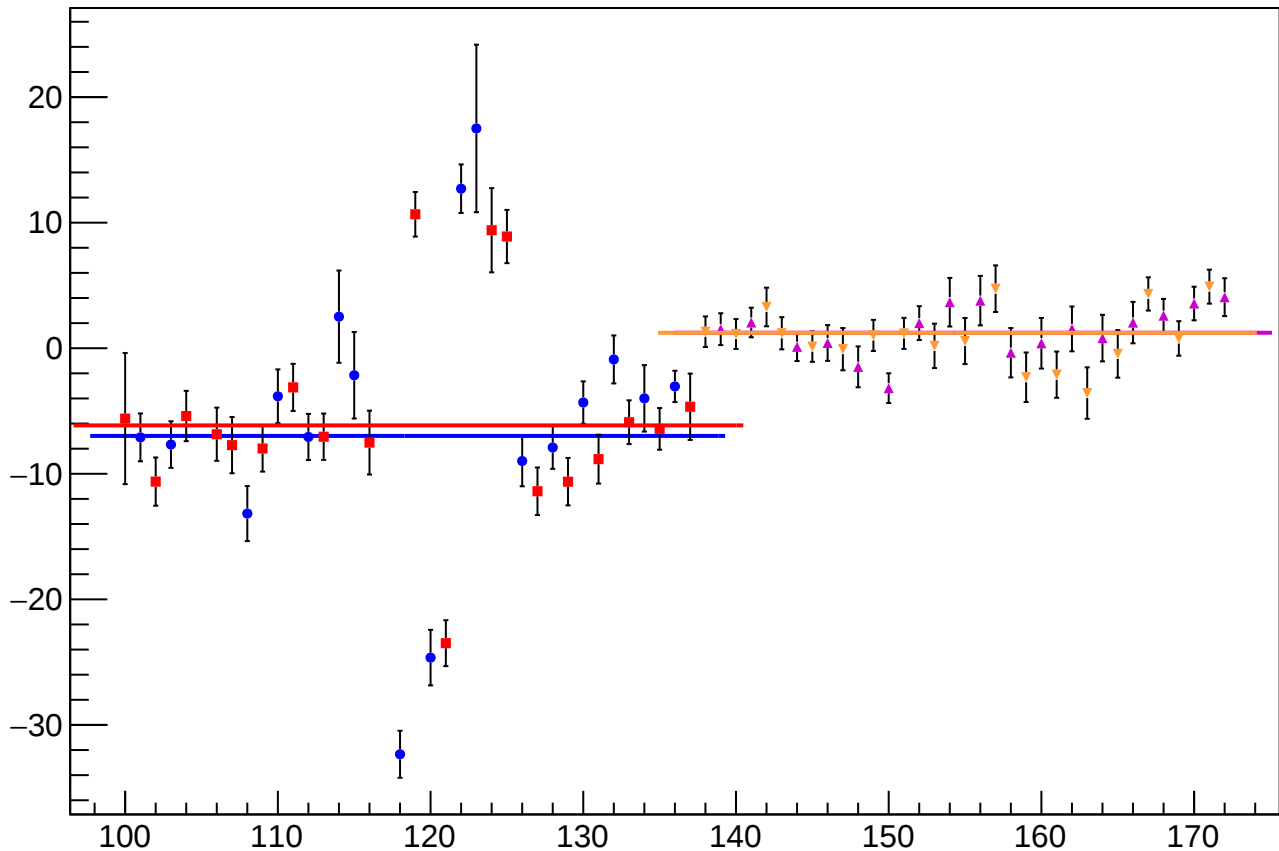
Right: 7815.627 +/- 1.503 χ^2/NDF : 620463.8/35

In: 8407.265 +/- 1.349 χ^2/NDF : 628286.4/33

Out: 8255.914 +/- 1.302 χ^2/NDF : 711669.9/36

All: 8328.917 +/- 0.937 χ^2/NDF : 1346476.5/70

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 1.228 ± 0.346 χ^2/NDF : 33.0/17

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

Left In: 1.234 ± 0.358 χ^2/NDF : 30.9/16

Left: 1.231 ± 0.248 χ^2/NDF : 63.9/34

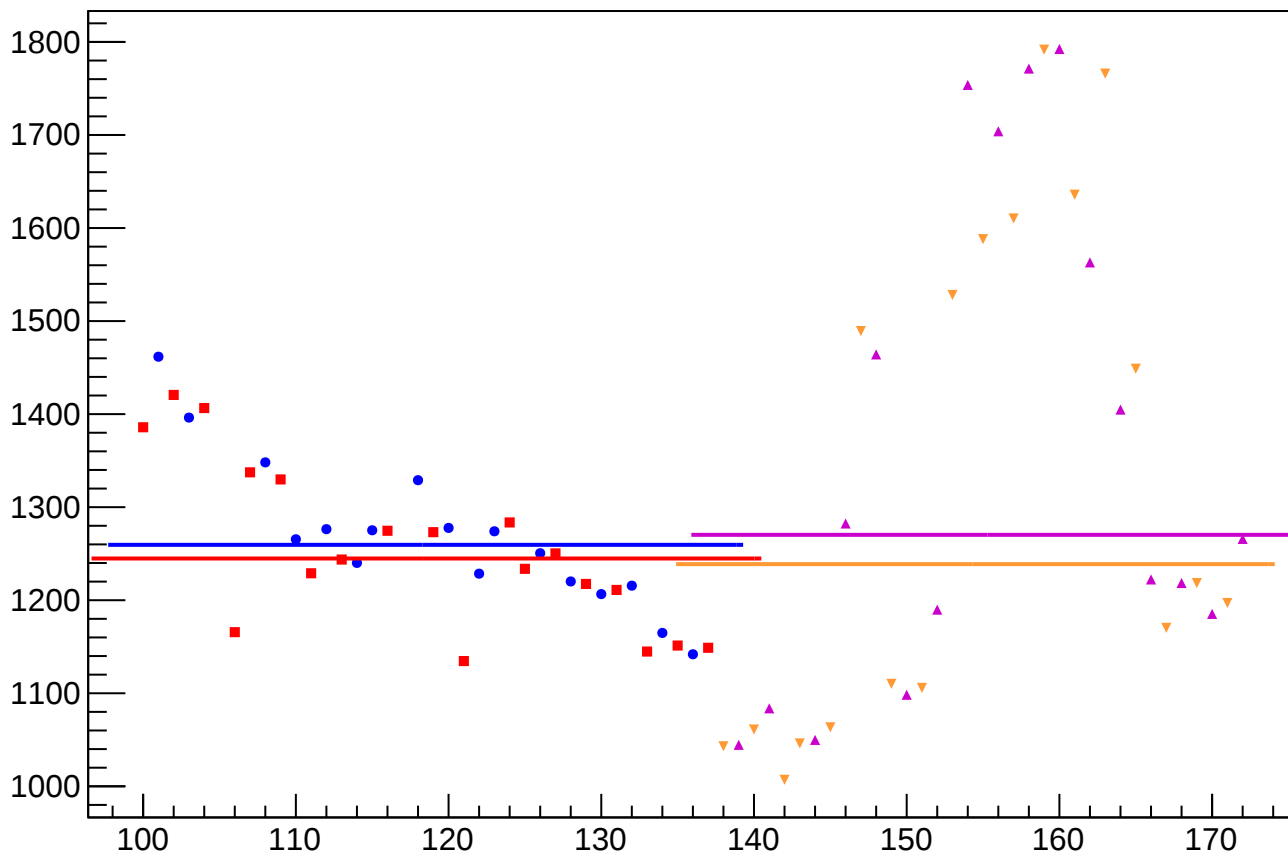
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -1.651 ± 0.288 χ^2/NDF : 624.8/33

Out: -1.383 ± 0.278 χ^2/NDF : 471.8/36

All: -1.512 ± 0.200 χ^2/NDF : 1097.1/70

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1238.767 $\pm$ 0.244 χ^2/NDF : 939046.0/17

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

Left In: 1270.273 $\pm$ 0.253 χ^2/NDF : 830136.4/16

Left: 1253.980 $\pm$ 0.176 χ^2/NDF : 1777212.5/34

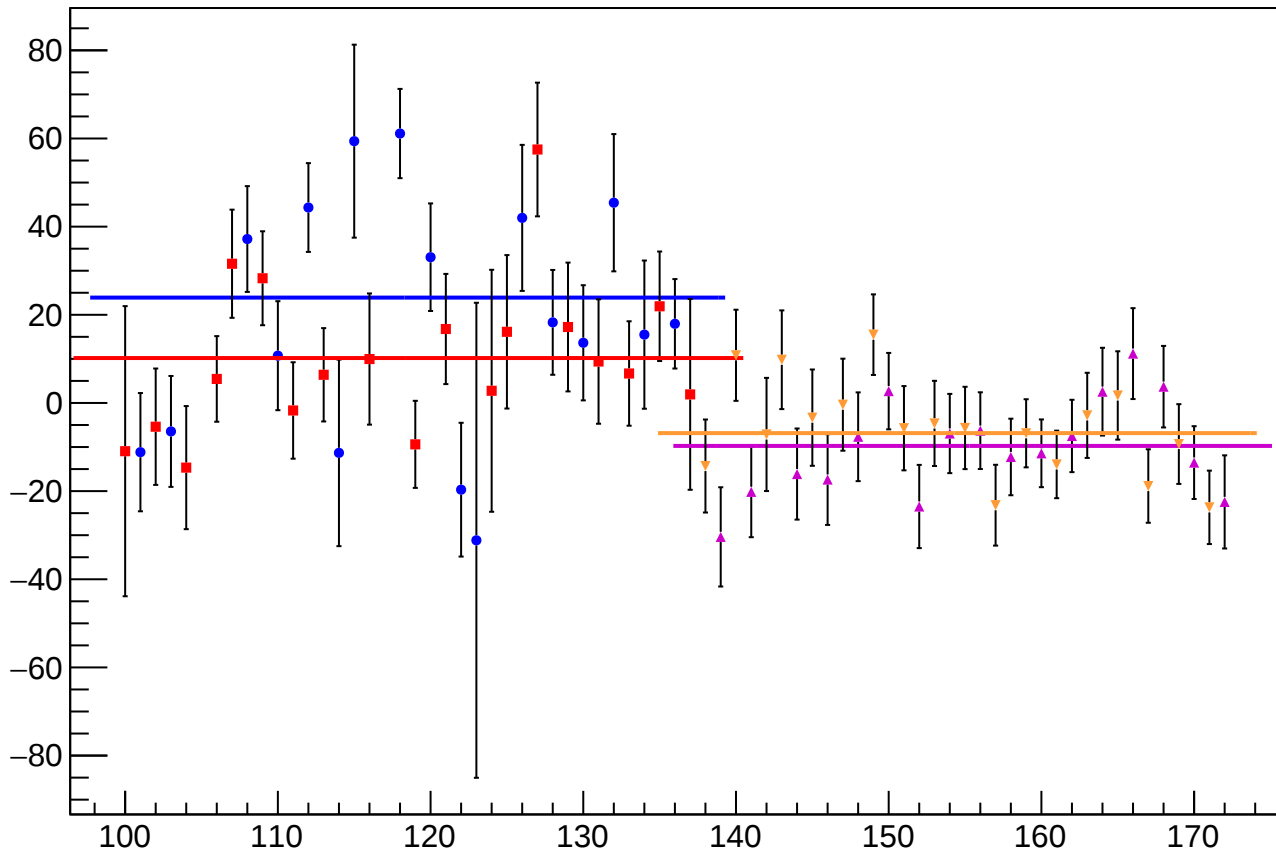
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

In: 1266.502 $\pm$ 0.204 χ^2/NDF : 895614.6/33

Out: 1240.916 $\pm$ 0.196 χ^2/NDF : 1006090.5/36

All: 1253.241 $\pm$ 0.141 χ^2/NDF : 1909884.1/70

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

Left Out: -6.841 ± 2.223 $\chi^2/\text{NDF}: 23.3/17$

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

Left In: -9.747 ± 2.259 $\chi^2/\text{NDF}: 19.4/16$

Left: -8.270 ± 1.584 $\chi^2/\text{NDF}: 43.6/34$

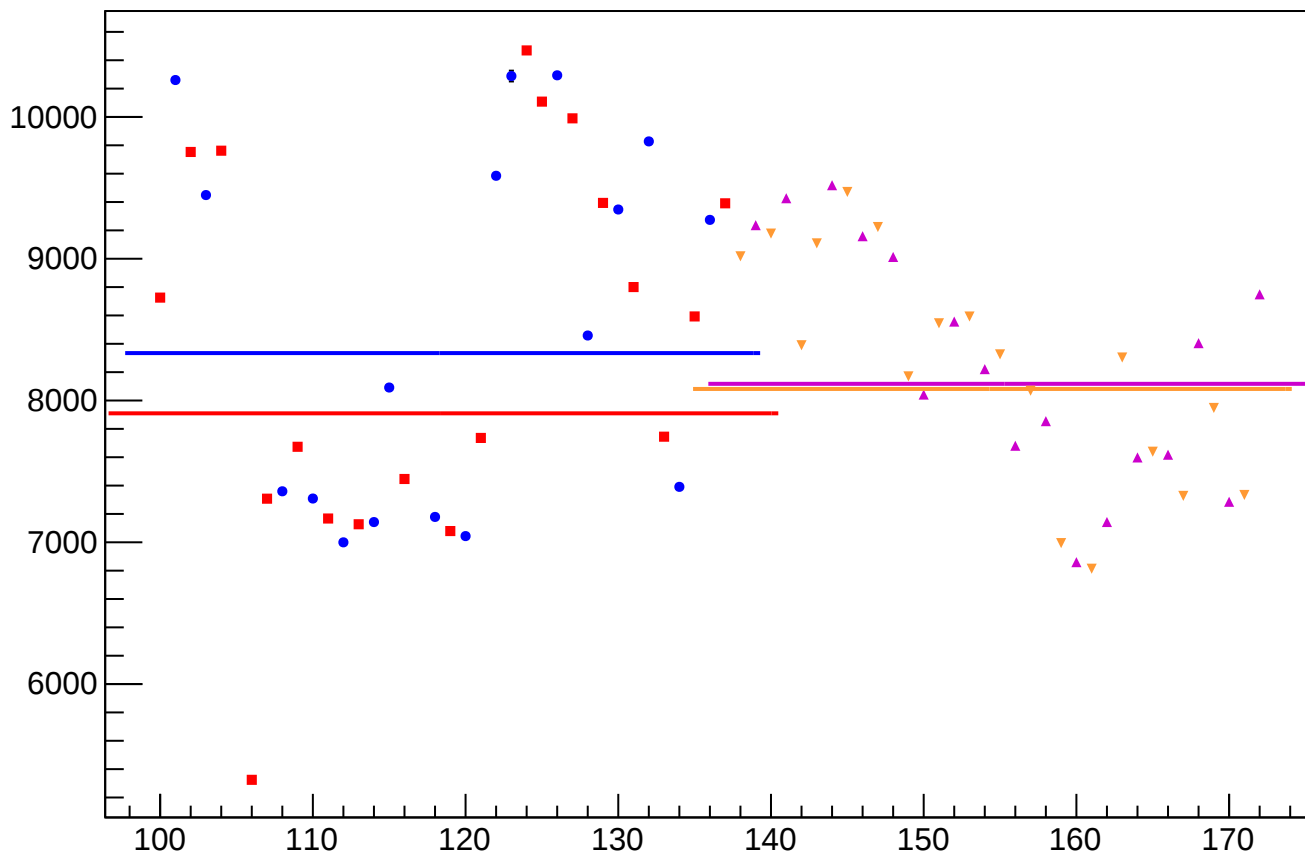
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: 1.213 ± 1.855 $\chi^2/\text{NDF}: 144.1/33$

Out: -0.820 ± 1.787 $\chi^2/\text{NDF}: 72.0/36$

All: 0.159 ± 1.287 $\chi^2/\text{NDF}: 216.8/70$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8081.524 $\pm$ 1.572 χ^2 /NDF: 256564.0/17

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

Left In: 8117.734 $\pm$ 1.597 χ^2 /NDF: 258023.7/16

Left: 8099.335 $\pm$ 1.120 χ^2 /NDF: 514848.8/34

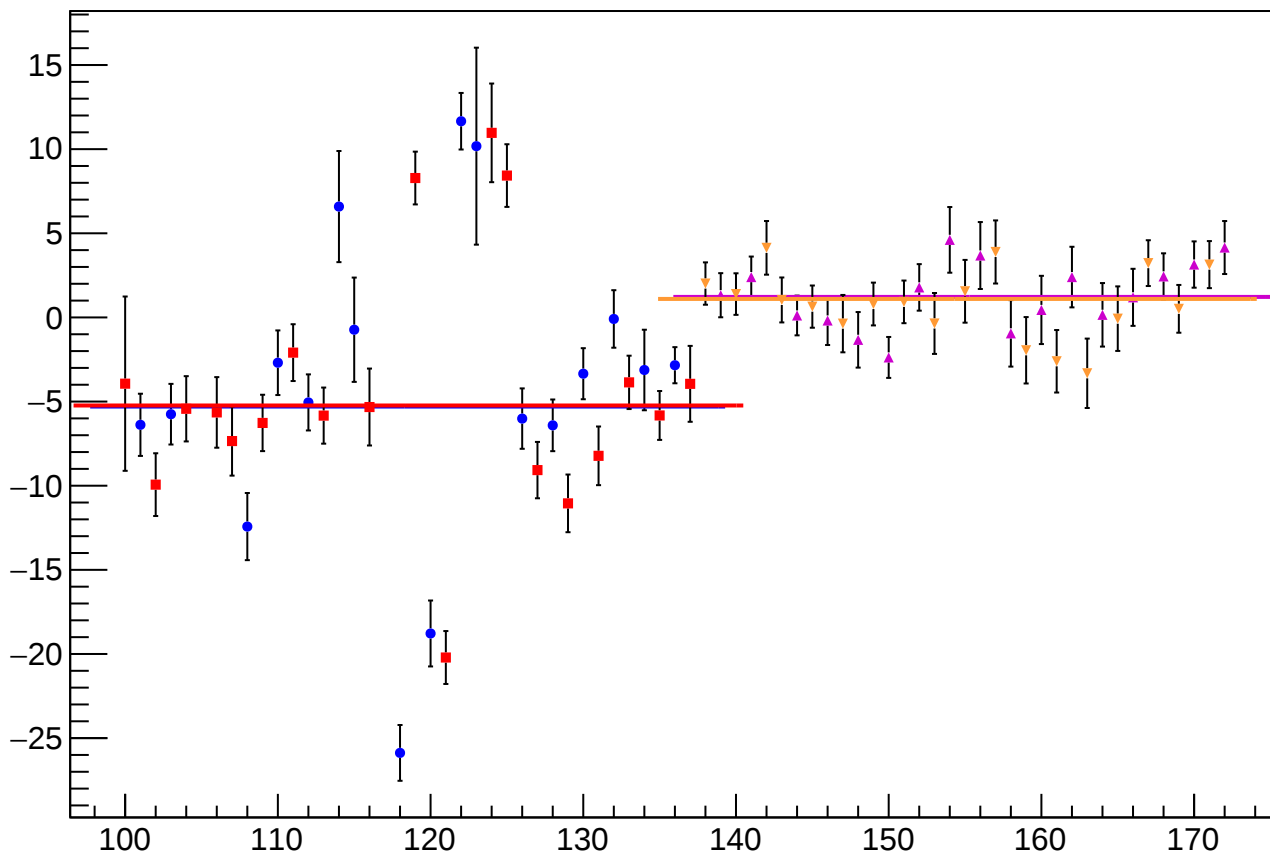
Right: 8105.450 $\pm$ 1.560 χ^2 /NDF: 681543.4/35

In: 8188.337 $\pm$ 1.312 χ^2 /NDF: 536323.8/33

Out: 8020.749 $\pm$ 1.264 χ^2 /NDF: 651612.7/36

All: 8101.415 $\pm$ 0.910 χ^2 /NDF: 1196402.4/70

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 1.099 ± 0.355 χ^2/NDF : 24.2/17

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

Left In: 1.219 ± 0.367 χ^2/NDF : 26.9/16

Left: 1.157 ± 0.255 χ^2/NDF : 51.1/34

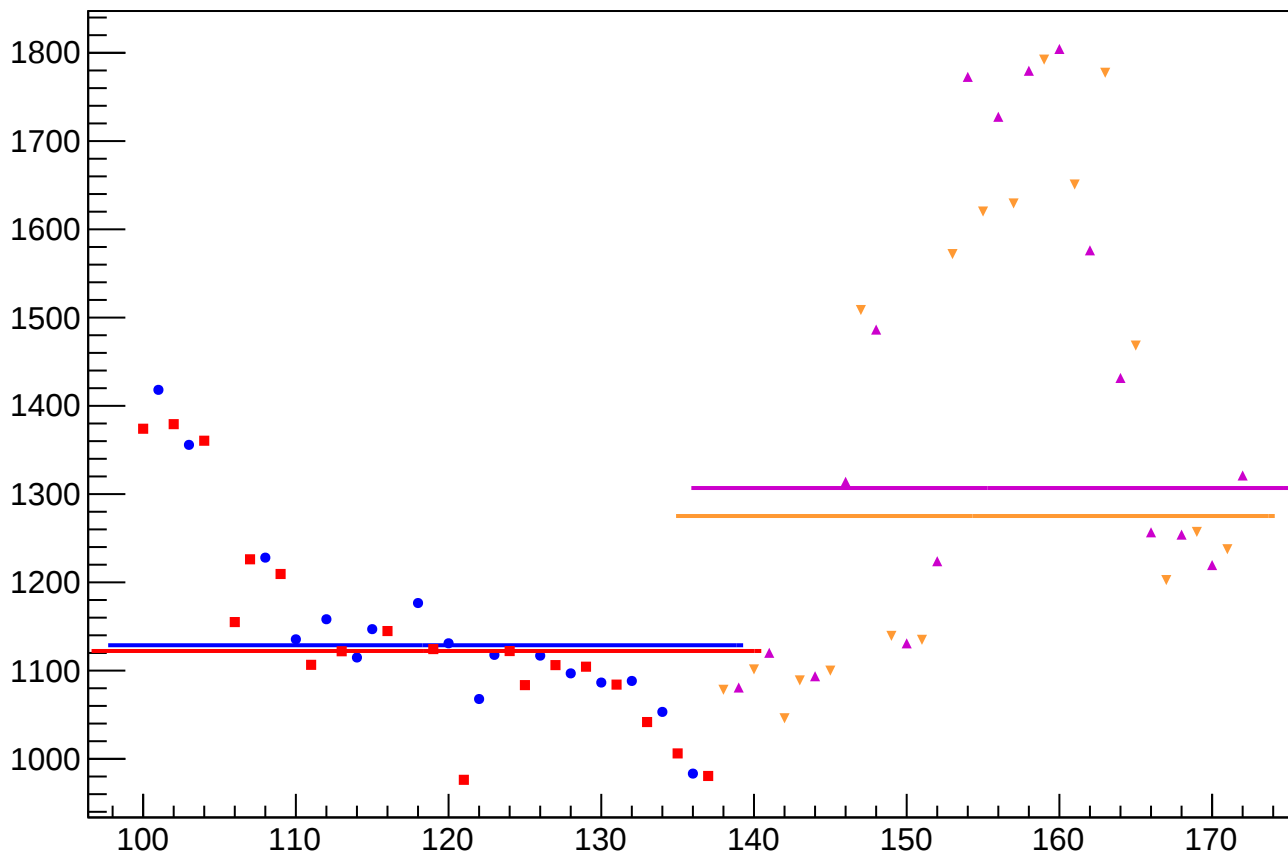
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -1.476 ± 0.281 χ^2/NDF : 515.4/33

Out: -1.526 ± 0.271 χ^2/NDF : 438.1/36

All: -1.502 ± 0.195 χ^2/NDF : 953.5/70

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.740 ± 0.309 $\chi^2/\text{NDF}: 133096.9/16$

Left Out: 1275.168 ± 0.251 $\chi^2/\text{NDF}: 851890.0/17$

Right Out: 1122.238 ± 0.298 $\chi^2/\text{NDF}: 129601.6/18$

Left In: 1306.888 ± 0.260 $\chi^2/\text{NDF}: 749147.4/16$

Left: 1290.492 ± 0.180 $\chi^2/\text{NDF}: 1608758.9/34$

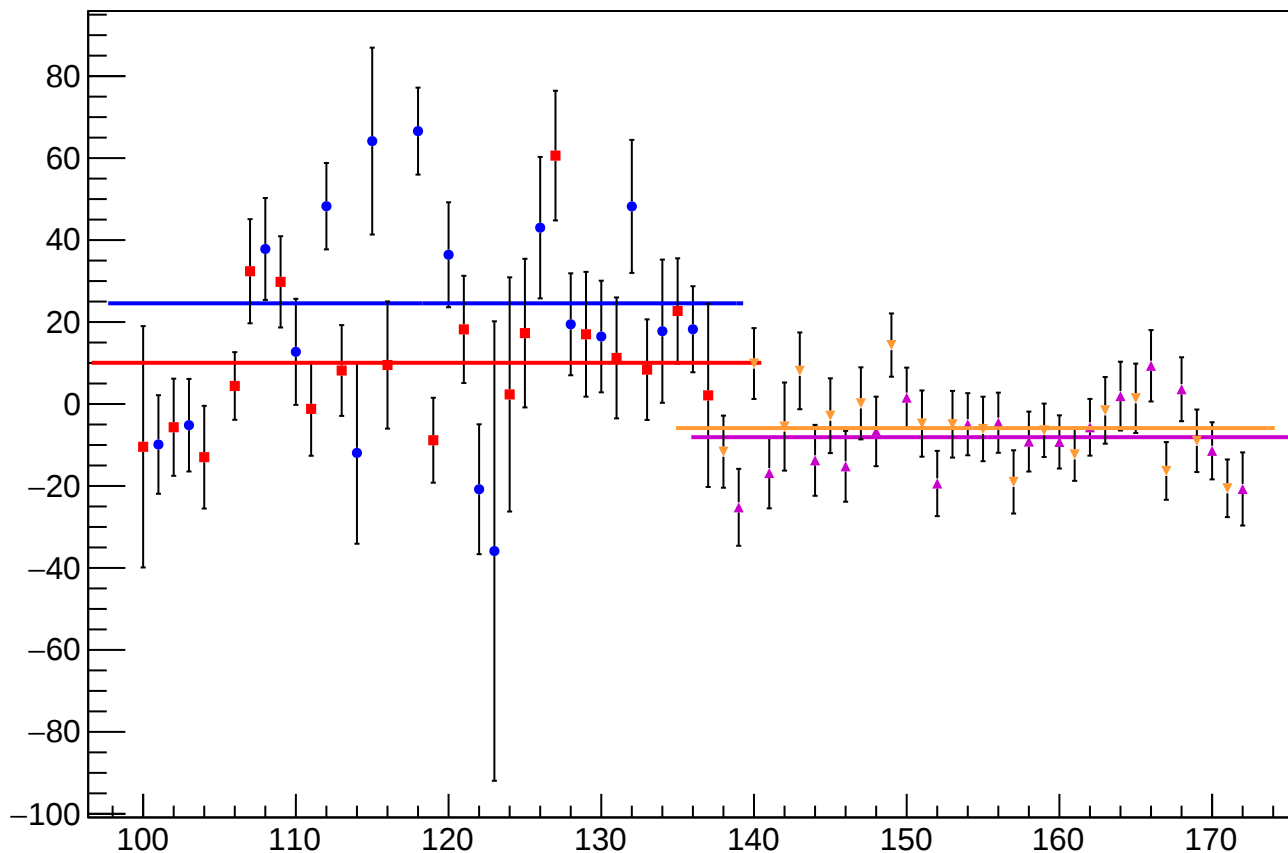
Right: 1125.374 ± 0.215 $\chi^2/\text{NDF}: 262927.9/35$

In: 1233.169 ± 0.199 $\chi^2/\text{NDF}: 1077223.0/33$

Out: 1211.769 ± 0.192 $\chi^2/\text{NDF}: 1135515.5/36$

All: 1222.100 ± 0.138 $\chi^2/\text{NDF}: 2218737.8/70$

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

Left Out: -5.874 ± 1.871 $\chi^2/\text{NDF}: 25.1/17$

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

Left In: -8.096 ± 1.903 $\chi^2/\text{NDF}: 19.7/16$

Left: -6.966 ± 1.334 $\chi^2/\text{NDF}: 45.5/34$

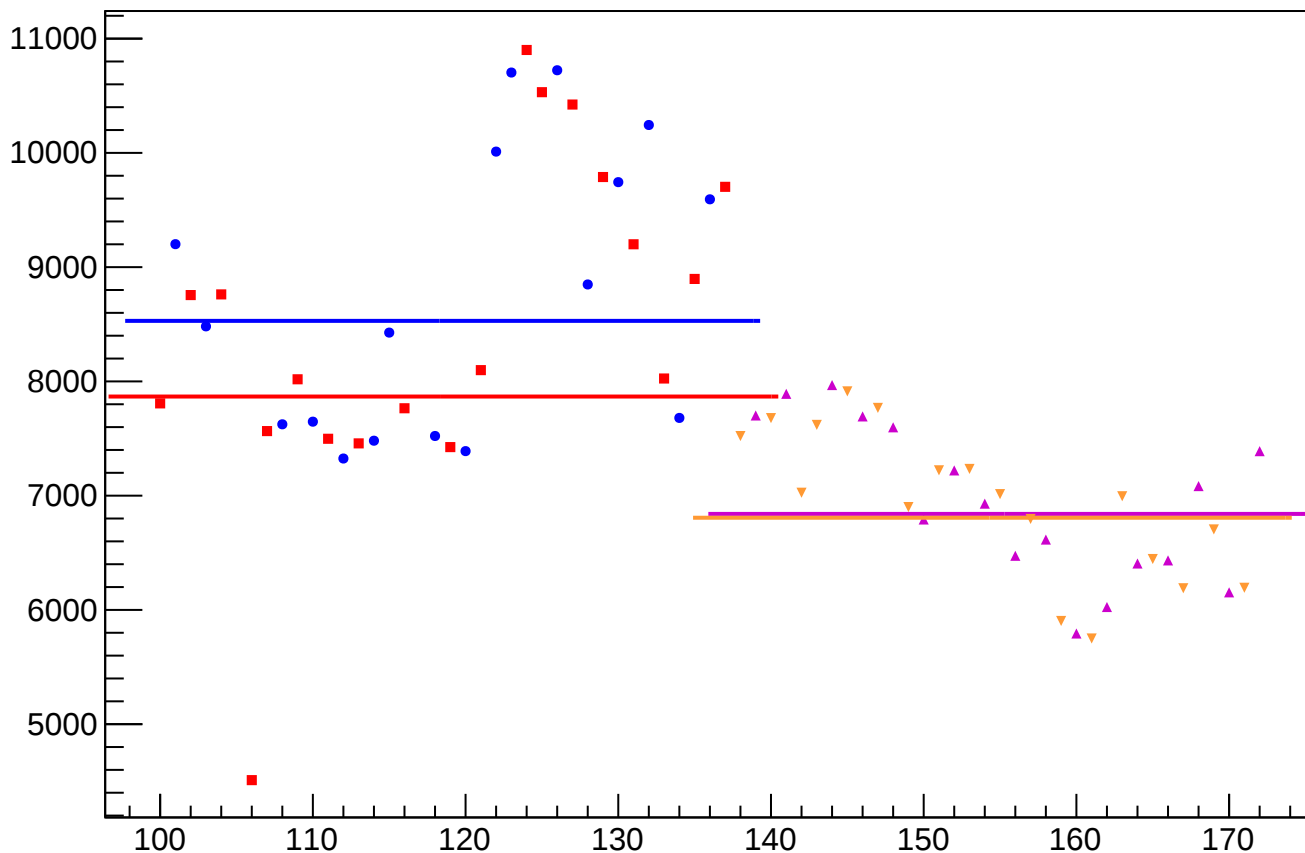
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

In: -0.012 ± 1.651 $\chi^2/\text{NDF}: 150.7/33$

Out: -1.427 ± 1.589 $\chi^2/\text{NDF}: 74.1/36$

All: -0.747 ± 1.145 $\chi^2/\text{NDF}: 225.3/70$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.821+/-2.346 χ^2/NDF : 208336.1/16

Left Out: 6806.787+/-1.323 χ^2/NDF : 242623.0/17

Right Out: 7867.584+/-2.127 χ^2/NDF : 555841.7/18

Left In: 6840.331+/-1.346 χ^2/NDF : 246222.6/16

Left: 6823.279+/-0.944 χ^2/NDF : 489161.5/34

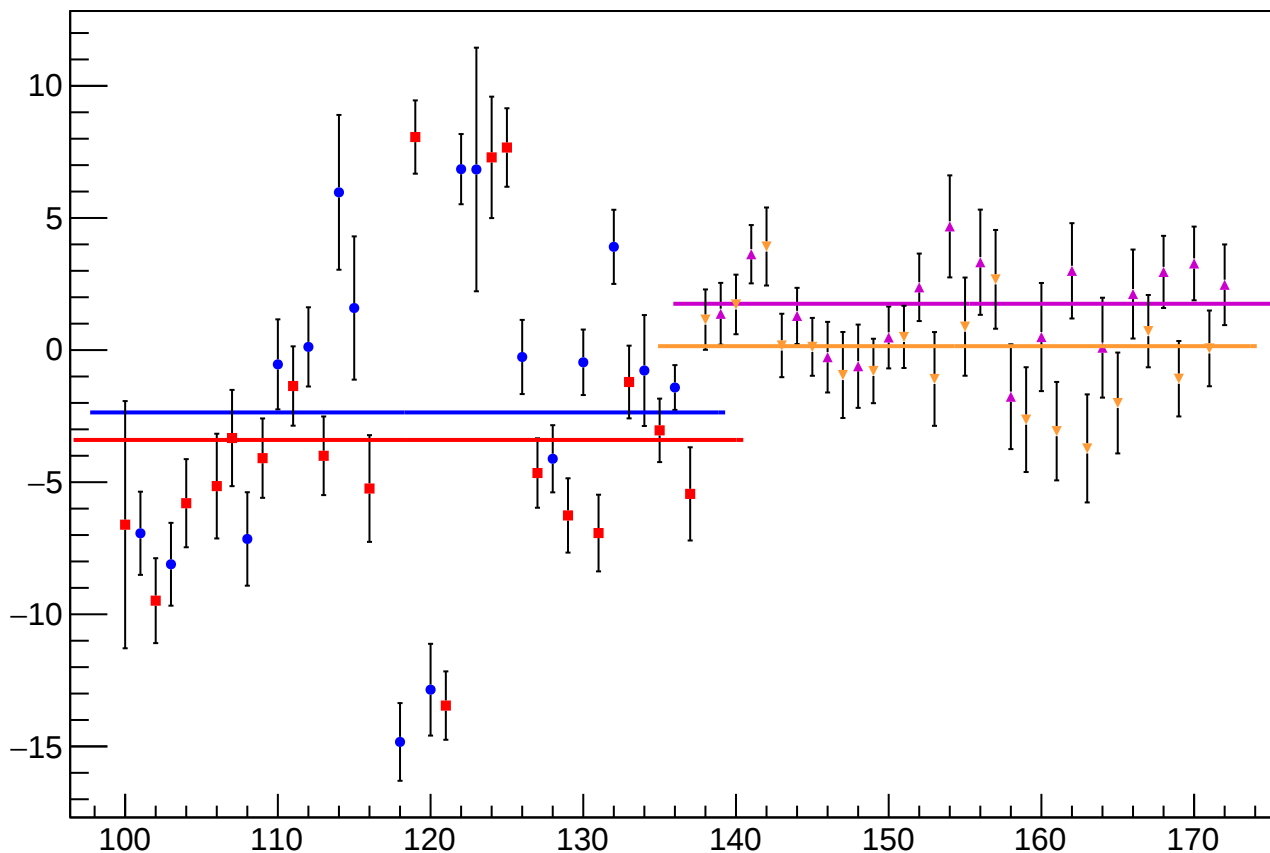
Right: 8166.253+/-1.576 χ^2/NDF : 807907.7/35

In: 7258.453+/-1.167 χ^2/NDF : 844687.3/33

Out: 7102.866+/-1.124 χ^2/NDF : 977818.3/36

All: 7177.690+/-0.810 χ^2/NDF : 1831727.3/70

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.360 $\pm$ 0.366 χ^2/NDF : 232.0/16

Left Out: 0.149 $\pm$ 0.338 χ^2/NDF : 23.6/17

Right Out: -3.401 $\pm$ 0.358 χ^2/NDF : 241.4/18

Left In: 1.753 $\pm$ 0.350 χ^2/NDF : 19.1/16

Left: 0.922 $\pm$ 0.243 χ^2/NDF : 53.6/34

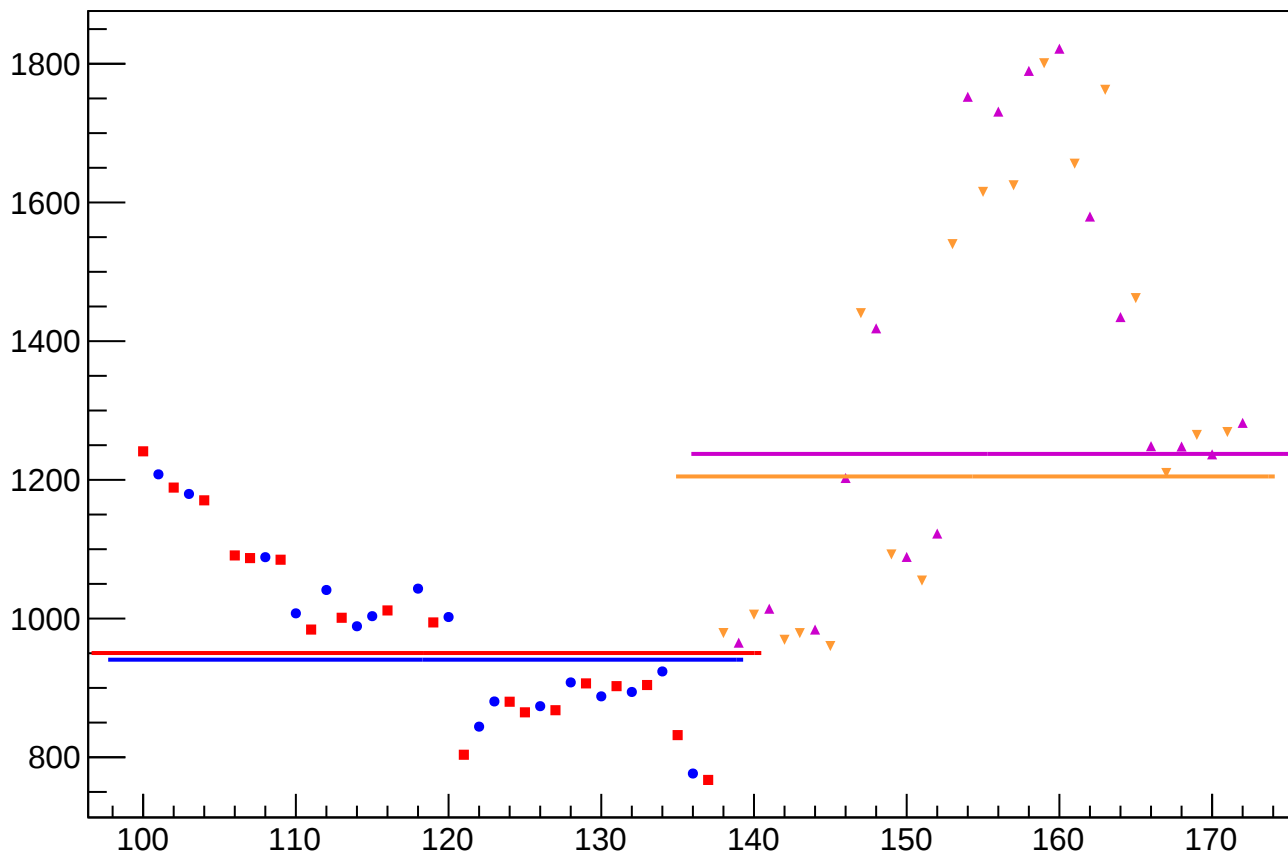
Right: -2.891 $\pm$ 0.256 χ^2/NDF : 477.6/35

In: -0.213 $\pm$ 0.253 χ^2/NDF : 317.2/33

Out: -1.521 $\pm$ 0.246 χ^2/NDF : 317.0/36

All: -0.886 $\pm$ 0.176 χ^2/NDF : 648.0/70

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1204.919 $\pm$ 0.239 χ^2 /NDF:1213541.4/17

Right Out: 950.316 $\pm$ 0.253 χ^2 /NDF: 220678.1/18

Left In: 1237.426 $\pm$ 0.247 χ^2 /NDF:1058782.7/16

Left: 1220.598 $\pm$ 0.172 χ^2 /NDF: 2281266.6/34

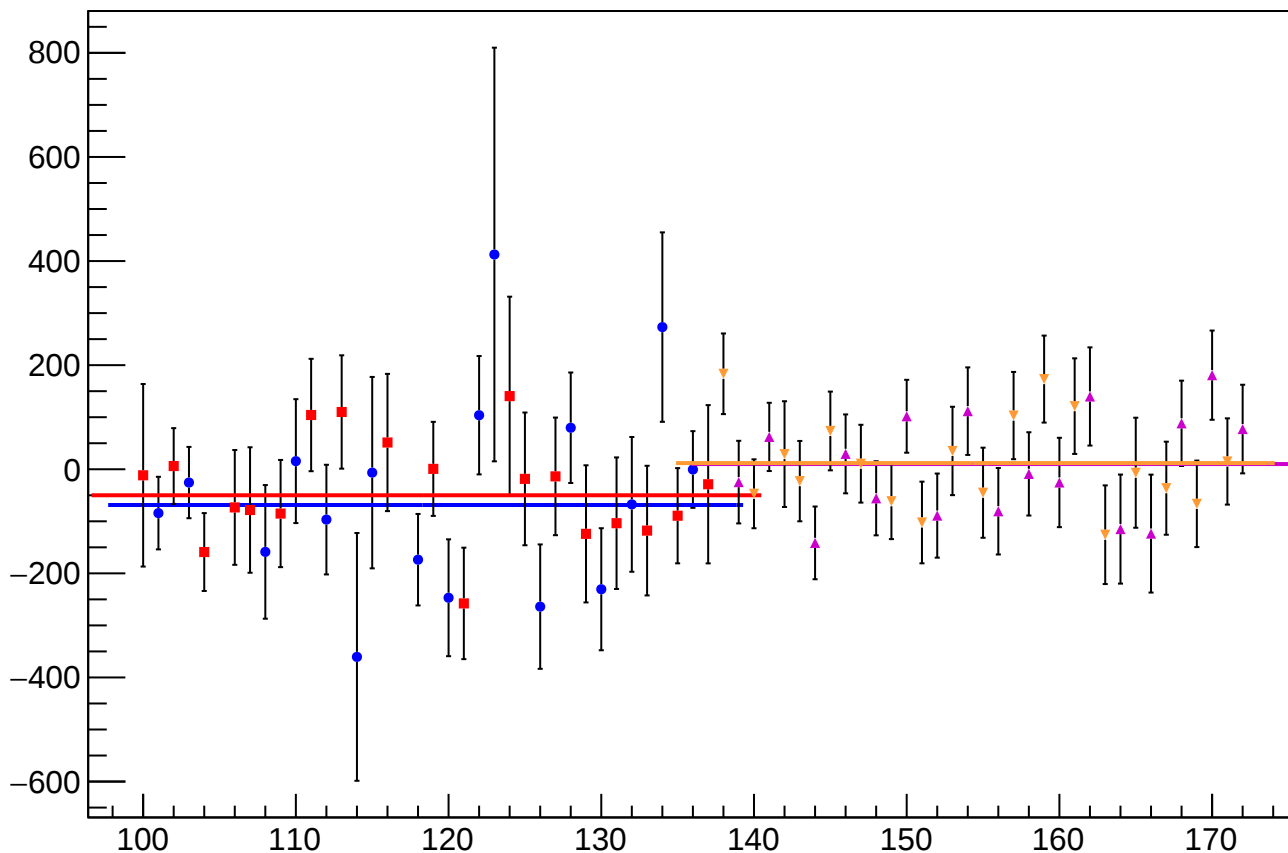
Right: 945.597 $\pm$ 0.181 χ^2 /NDF: 463155.1/35

In: 1095.597 $\pm$ 0.179 χ^2 /NDF:1988585.8/33

Out: 1085.139 $\pm$ 0.174 χ^2 /NDF:1969295.8/36

All: 1090.220 $\pm$ 0.125 χ^2 /NDF: 3959642.3/70

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 ± 25.946 χ^2/NDF : 21.8/16

Left Out: 11.862 ± 19.401 χ^2/NDF : 19.9/17

Right Out: -49.958 ± 25.020 χ^2/NDF : 14.0/18

Left In: 10.006 ± 19.584 χ^2/NDF : 22.8/16

Left: 10.943 ± 13.783 χ^2/NDF : 42.6/34

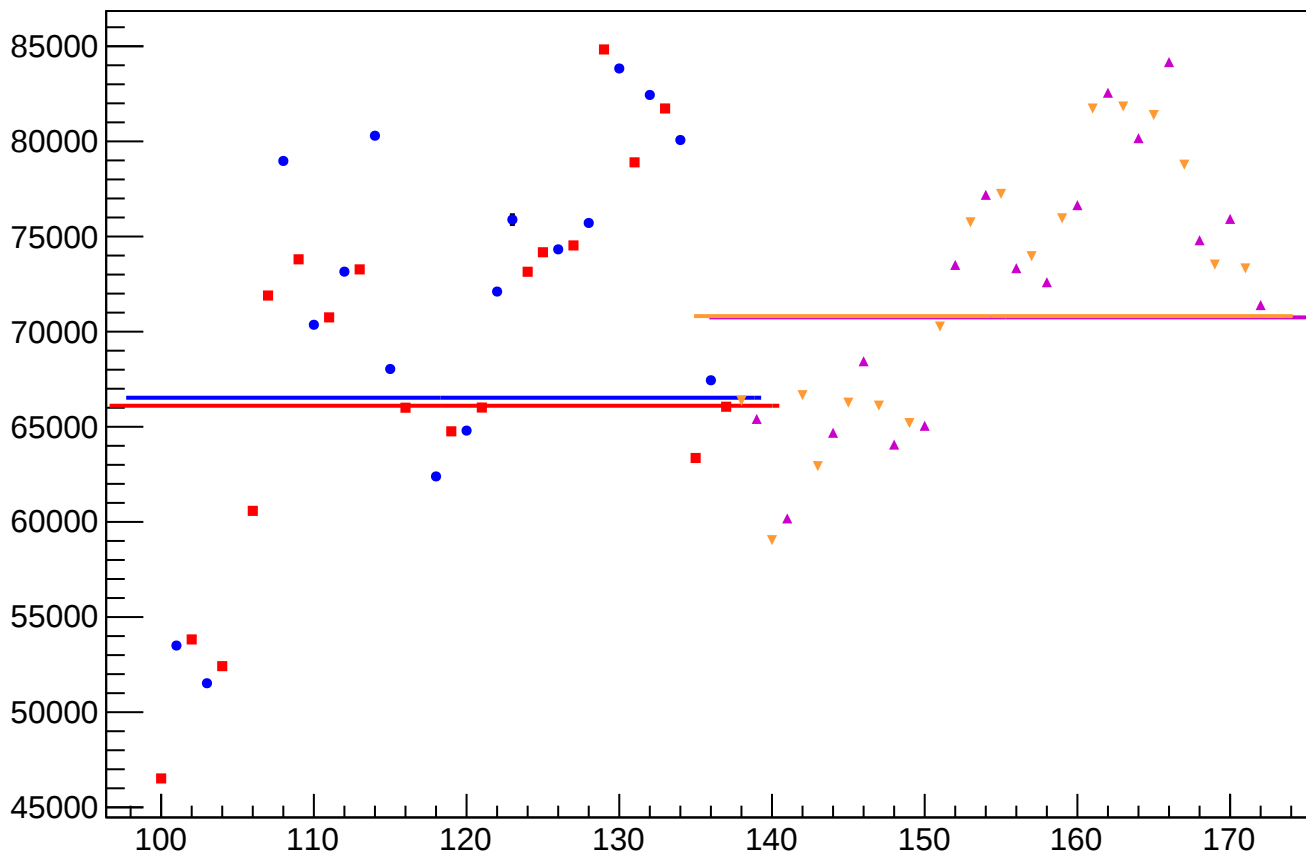
Right: -58.983 ± 18.010 χ^2/NDF : 36.0/35

In: -18.555 ± 15.631 χ^2/NDF : 50.4/33

Out: -11.352 ± 15.332 χ^2/NDF : 37.7/36

All: -14.884 ± 10.945 χ^2/NDF : 88.2/70

diff_bpm0r03X_rms vs Slug, Sign Corrected



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

Left Out: 70817.467+/-13.719 χ^2/NDF : 244451.0/17

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

Left In: 70749.026+/-13.848 χ^2/NDF : 223162.8/16

Left: 70783.567+/-9.746 χ^2/NDF : 467626.1/34

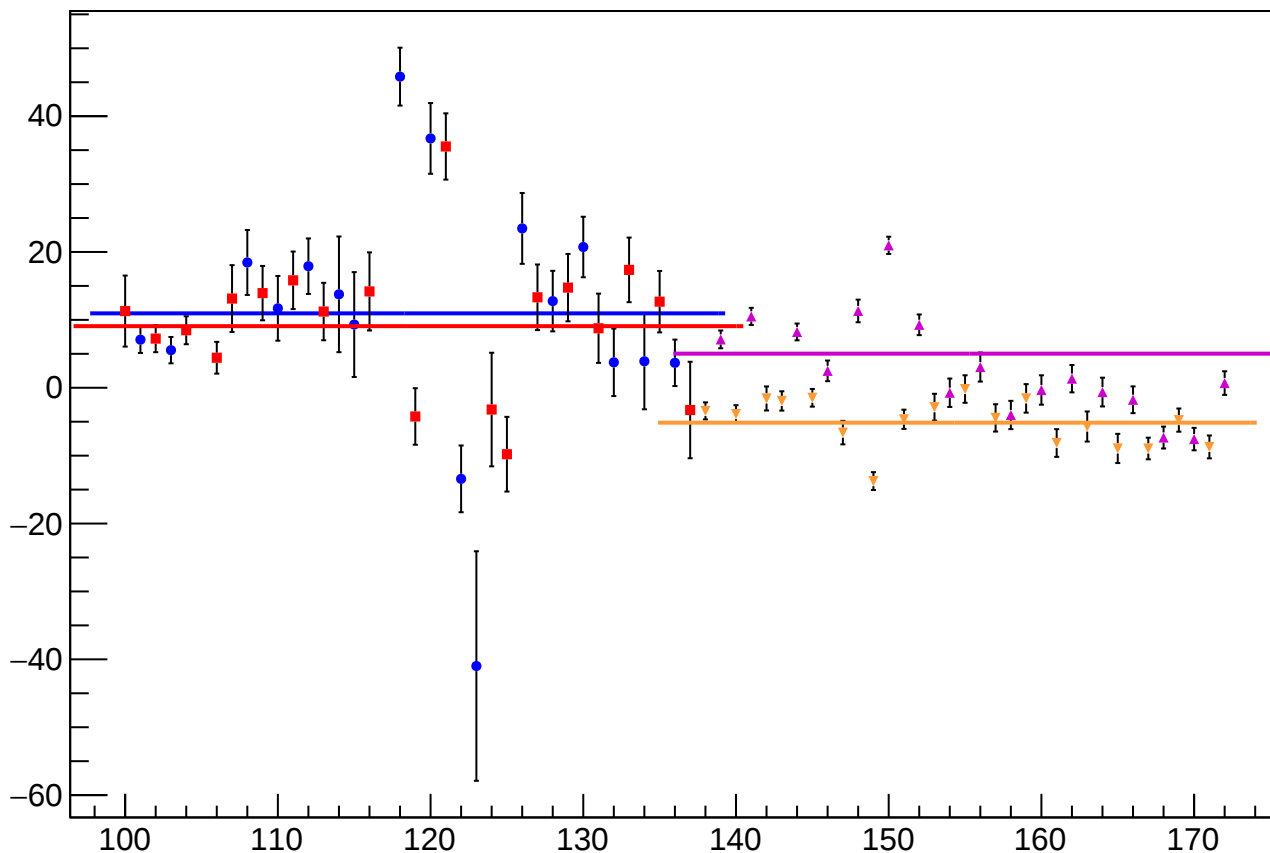
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 69216.769+/-11.053 χ^2/NDF : 577783.6/33

Out: 69048.232+/-10.841 χ^2/NDF : 587229.7/36

All: 69130.871+/-7.740 χ^2/NDF : 1165131.8/71

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 ± 0.943 χ^2/NDF : 160.9/16

Left Out: -5.141 ± 0.385 χ^2/NDF : 89.4/17

Right Out: 9.072 ± 0.866 χ^2/NDF : 73.1/18

Left In: 5.024 ± 0.395 χ^2/NDF : 389.0/16

Left: -0.195 ± 0.276 χ^2/NDF : 818.3/34

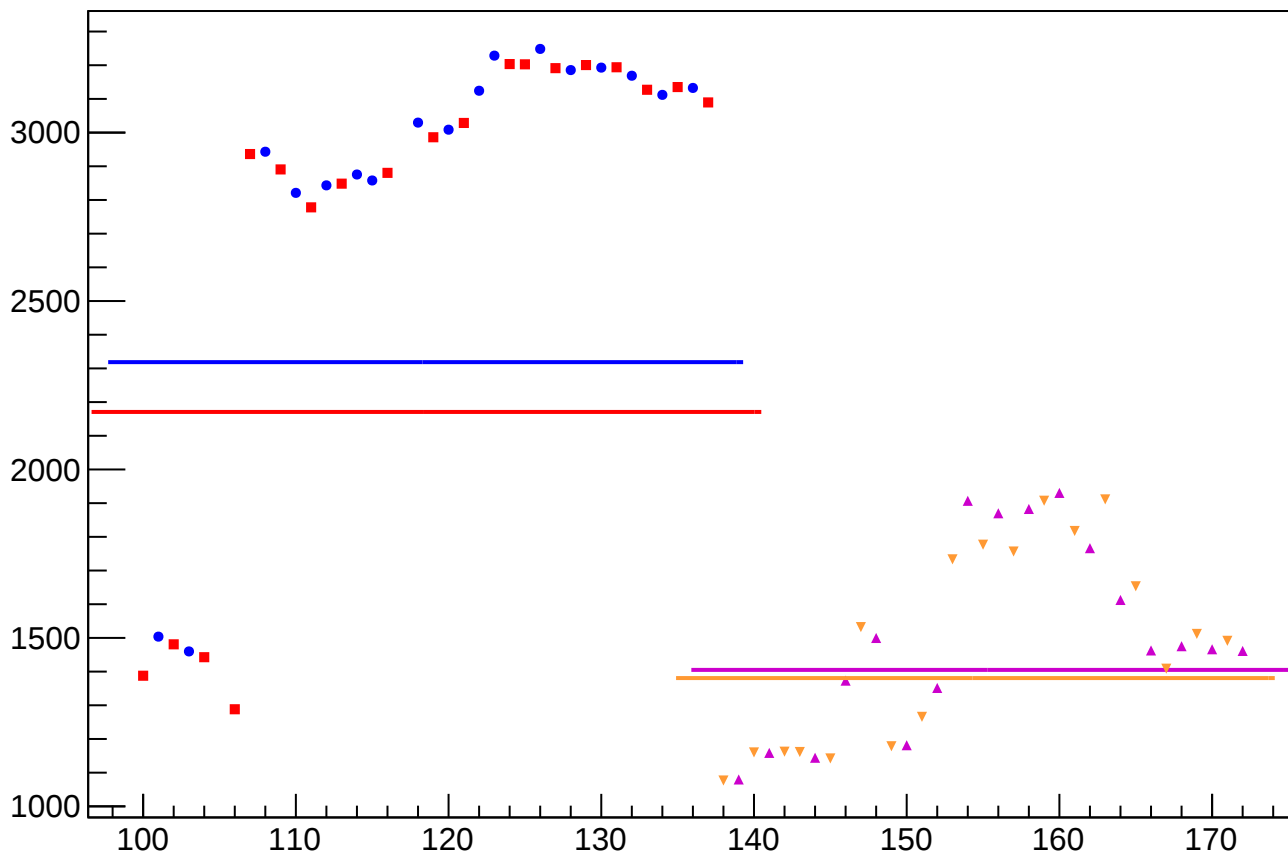
Right: 9.935 ± 0.638 χ^2/NDF : 236.2/35

In: 5.910 ± 0.364 χ^2/NDF : 583.6/33

Out: -2.801 ± 0.352 χ^2/NDF : 387.4/36

All: 1.398 ± 0.253 χ^2/NDF : 1266.9/70

diff_bpm0r03Y_rms vs Slug, Sign Corrected



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

Left Out: 1380.790 $\pm$ 0.272 χ^2/NDF : 990272.2/17

Right Out: 2170.786 $\pm$ 0.613 χ^2/NDF : 1753687.8/18

Left In: 1405.059 $\pm$ 0.279 χ^2/NDF : 886906.0/16

Left: 1392.598 $\pm$ 0.195 χ^2/NDF : 1881052.9/34

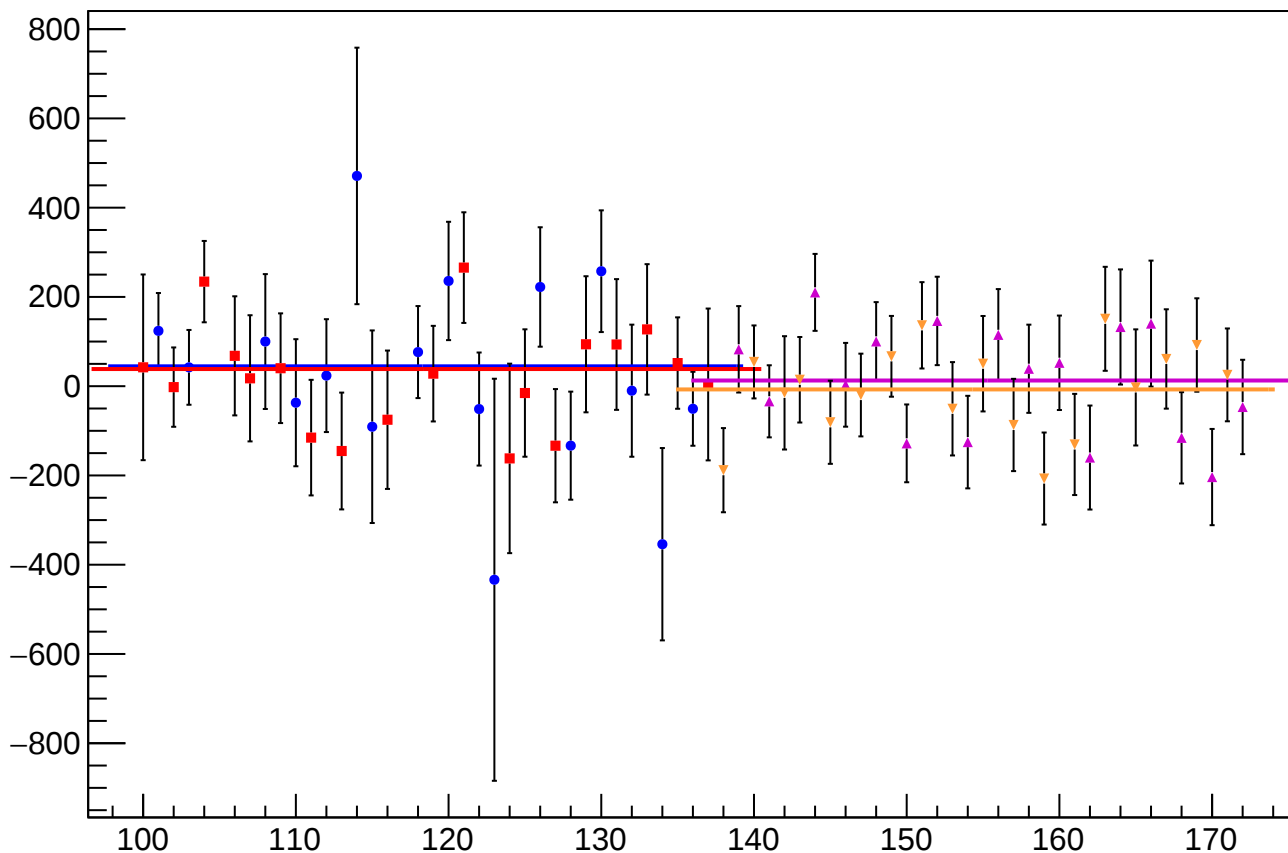
Right: 2238.439 $\pm$ 0.451 χ^2/NDF : 3188639.4/35

In: 1541.424 $\pm$ 0.258 χ^2/NDF : 3891491.2/33

Out: 1510.853 $\pm$ 0.249 χ^2/NDF : 4133196.4/36

All: 1525.589 $\pm$ 0.179 χ^2/NDF : 8031978.9/70

diff_bpm0r05X_mean vs Slug, Sign Corrected



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

Left Out: -7.266 $\pm$ 24.005 χ^2 /NDF: 17.0/17

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

Left In: 12.737 $\pm$ 24.213 χ^2 /NDF: 24.3/16

Left: 2.649 $\pm$ 17.047 χ^2 /NDF: 41.7/34

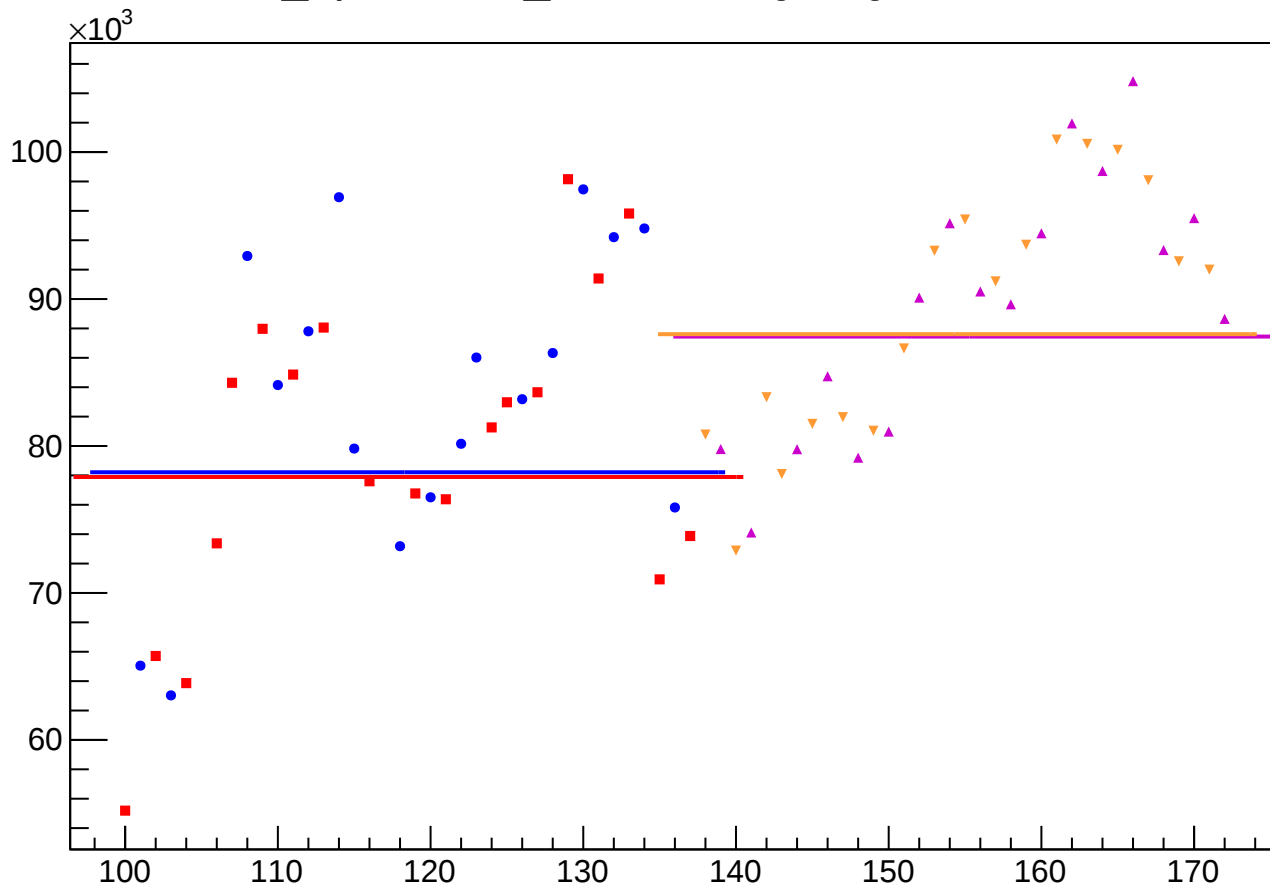
Right: 41.353 $\pm$ 21.157 χ^2 /NDF: 34.9/35

In: 25.044 $\pm$ 18.948 χ^2 /NDF: 44.1/33

Out: 10.984 $\pm$ 18.603 χ^2 /NDF: 34.2/36

All: 17.885 $\pm$ 13.274 χ^2 /NDF: 78.6/70

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519 χ^2/NDF : 251056.7/16

Left Out: 87607.910+/-16.974 χ^2/NDF : 246450.8/17

Right Out: 77891.938+/-20.814 χ^2/NDF : 246970.2/18

Left In: 87447.120+/-17.121 χ^2/NDF : 231750.6/16

Left: 87528.211+/-12.054 χ^2/NDF : 478245.9/34

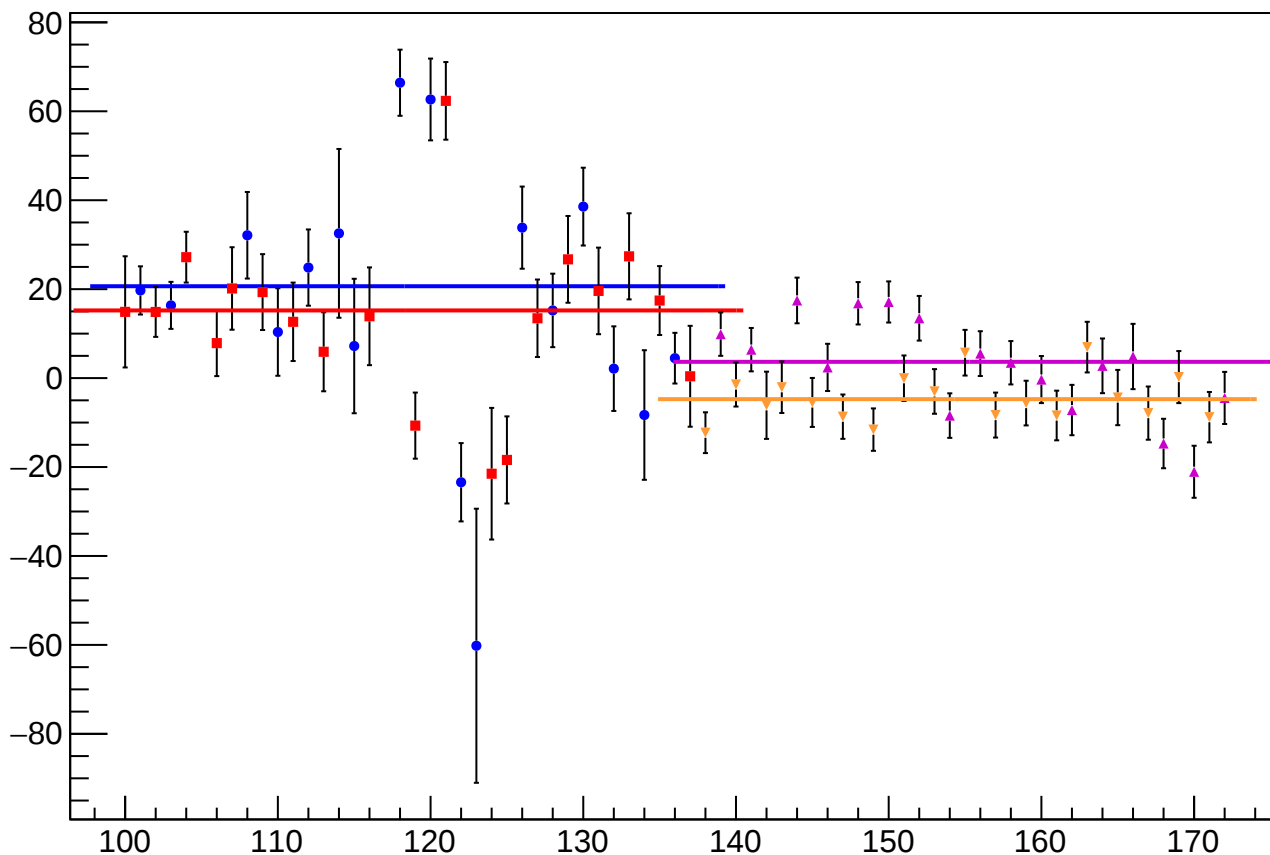
Right: 78047.137+/-14.960 χ^2/NDF : 498141.9/35

In: 83867.433+/-13.398 χ^2/NDF : 595567.8/33

Out: 83727.103+/-13.154 χ^2/NDF : 624291.3/36

All: 83795.981+/-9.386 χ^2/NDF : 1219915.0/71

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2 /NDF: 117.7/16

Left Out: -4.735 $\pm$ 1.266 χ^2 /NDF:17.9/17

Right Out: 15.216 $\pm$ 1.955 χ^2 /NDF: 71.3/18

Left In: 3.660 $\pm$ 1.278 χ^2 /NDF:70.1/16

Left: -0.580 $\pm$ 0.899 χ^2 /NDF: 109.8/34

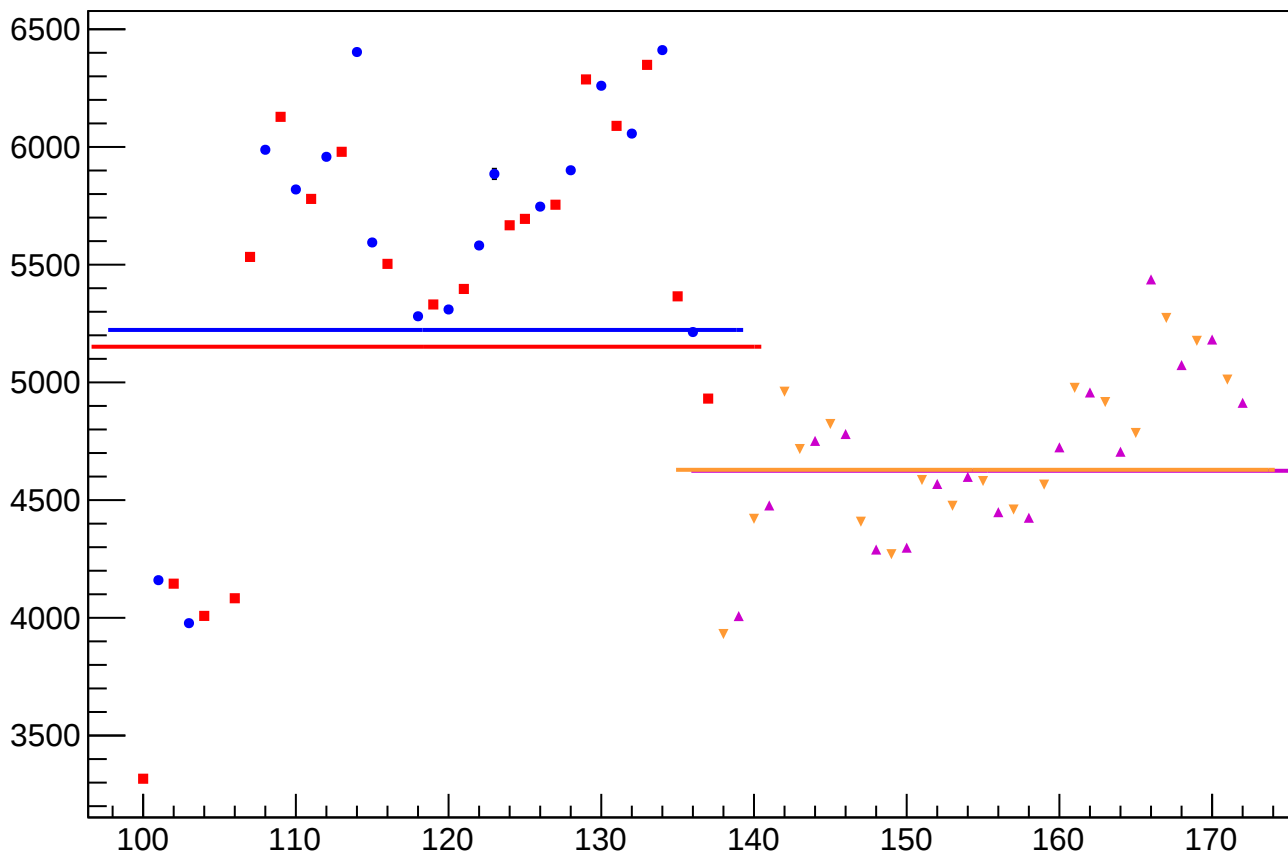
Right: 17.826 $\pm$ 1.410 χ^2 /NDF: 192.8/35

In: 8.466 $\pm$ 1.083 χ^2 /NDF:237.8/33

Out: 1.158 $\pm$ 1.062 χ^2 /NDF:162.6/36

All: 4.743 $\pm$ 0.758 χ^2 /NDF: 423.6/70

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 ± 1.440 $\chi^2/\text{NDF}: 312497.9/16$

Left Out: 4628.706 ± 0.895 $\chi^2/\text{NDF}: 140541.7/17$

Right Out: 5151.532 ± 1.382 $\chi^2/\text{NDF}: 387685.6/18$

Left In: 4624.550 ± 0.904 $\chi^2/\text{NDF}: 131323.9/16$

Left: 4626.649 ± 0.636 $\chi^2/\text{NDF}: 271876.2/34$

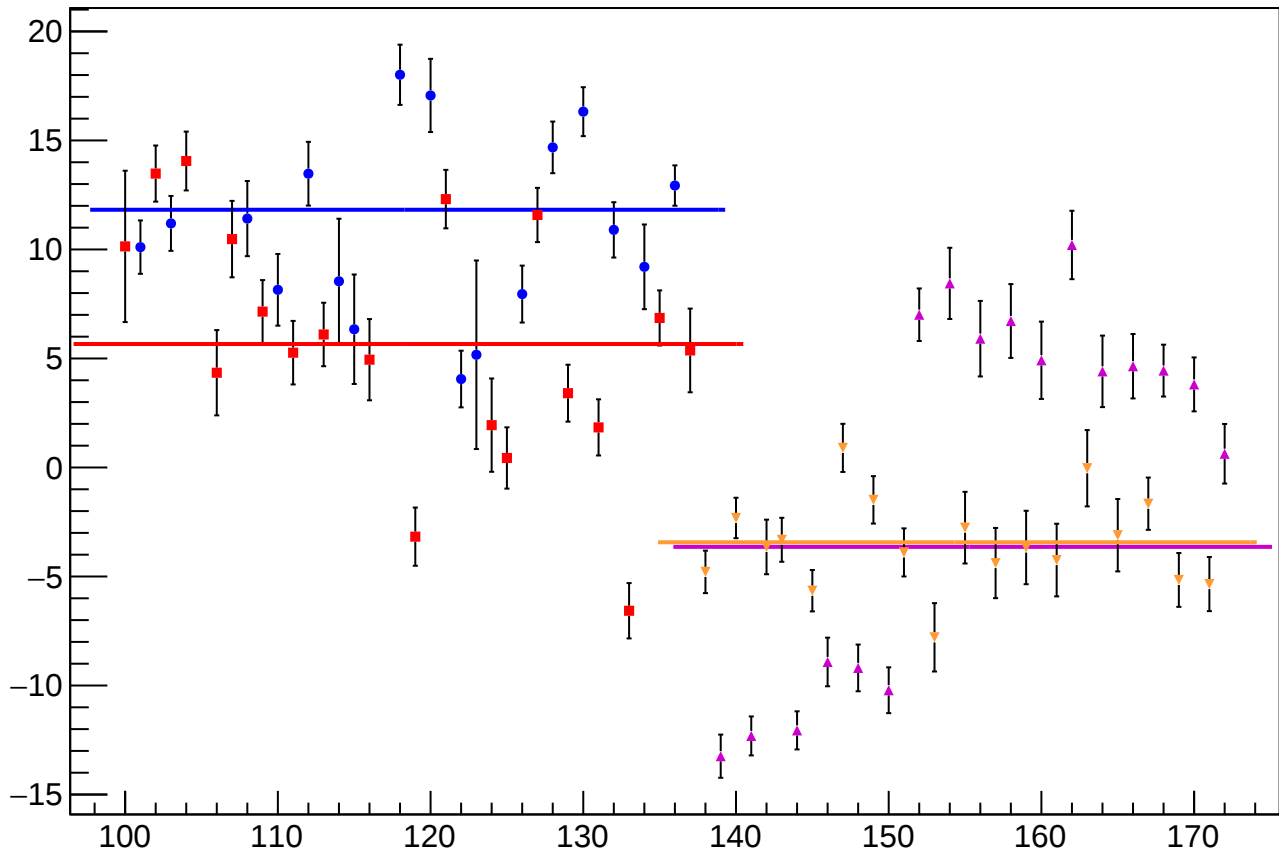
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4793.711 ± 0.766 $\chi^2/\text{NDF}: 567672.8/33$

Out: 4783.132 ± 0.751 $\chi^2/\text{NDF}: 629046.3/36$

All: 4788.322 ± 0.536 $\chi^2/\text{NDF}: 1196816.4/70$

diff_bpm2i01X_mean vs Slug, Sign Corrected



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

Left Out: -3.431 ± 0.289 $\chi^2/\text{NDF}: 46.5/17$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -3.641 ± 0.297 $\chi^2/\text{NDF}: 818.9/16$

Left: -3.533 ± 0.207 $\chi^2/\text{NDF}: 865.6/34$

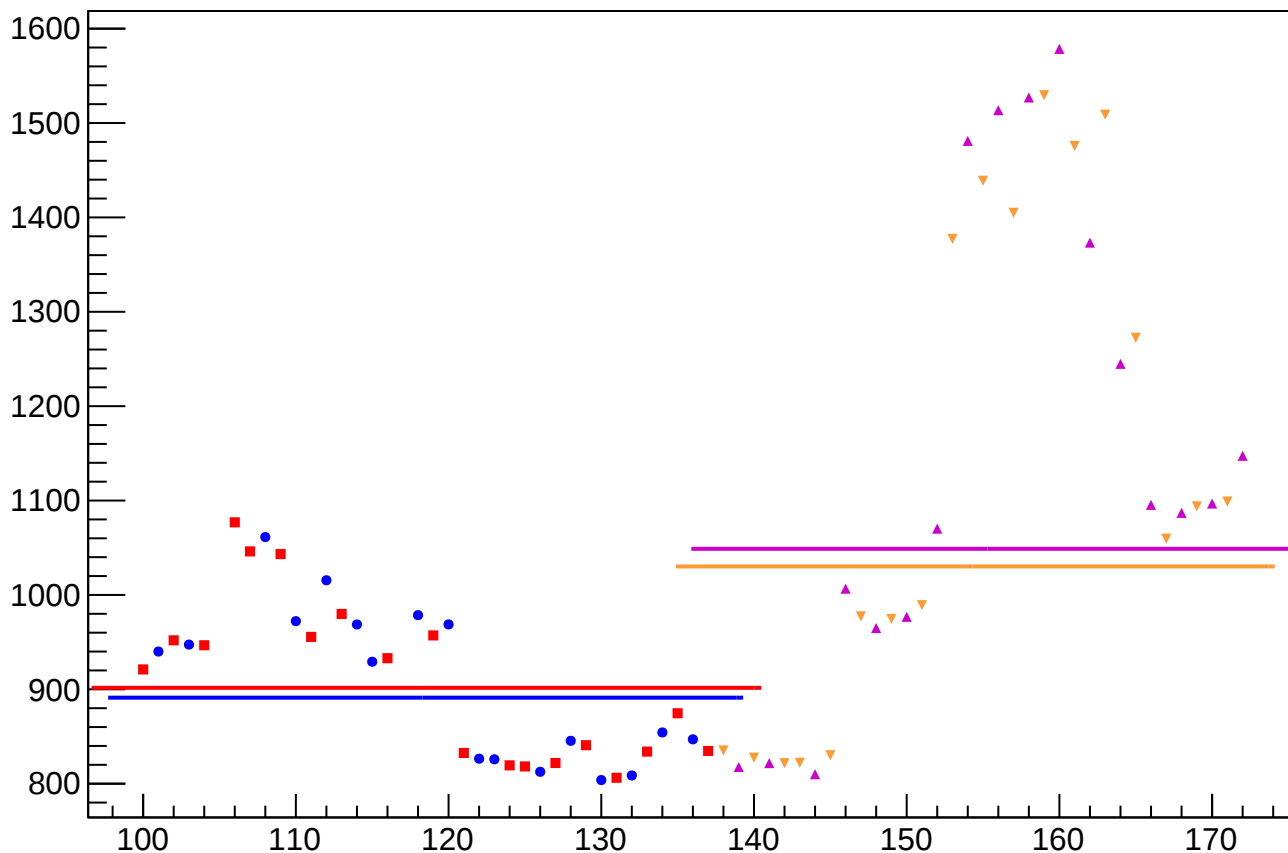
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.945 ± 0.225 $\chi^2/\text{NDF}: 2092.3/33$

Out: 0.399 ± 0.220 $\chi^2/\text{NDF}: 764.5/36$

All: 1.642 ± 0.157 $\chi^2/\text{NDF}: 2922.4/70$

diff_bpm2i01X_rms vs Slug, Sign Corrected



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

Left Out: 1030.195 $\pm$ 0.204 χ^2 /NDF:1271205.3/17

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

Left In: 1048.853 $\pm$ 0.210 χ^2 /NDF:1166026.9/16

Left: 1039.267 $\pm$ 0.146 χ^2 /NDF: 2441294.8/34

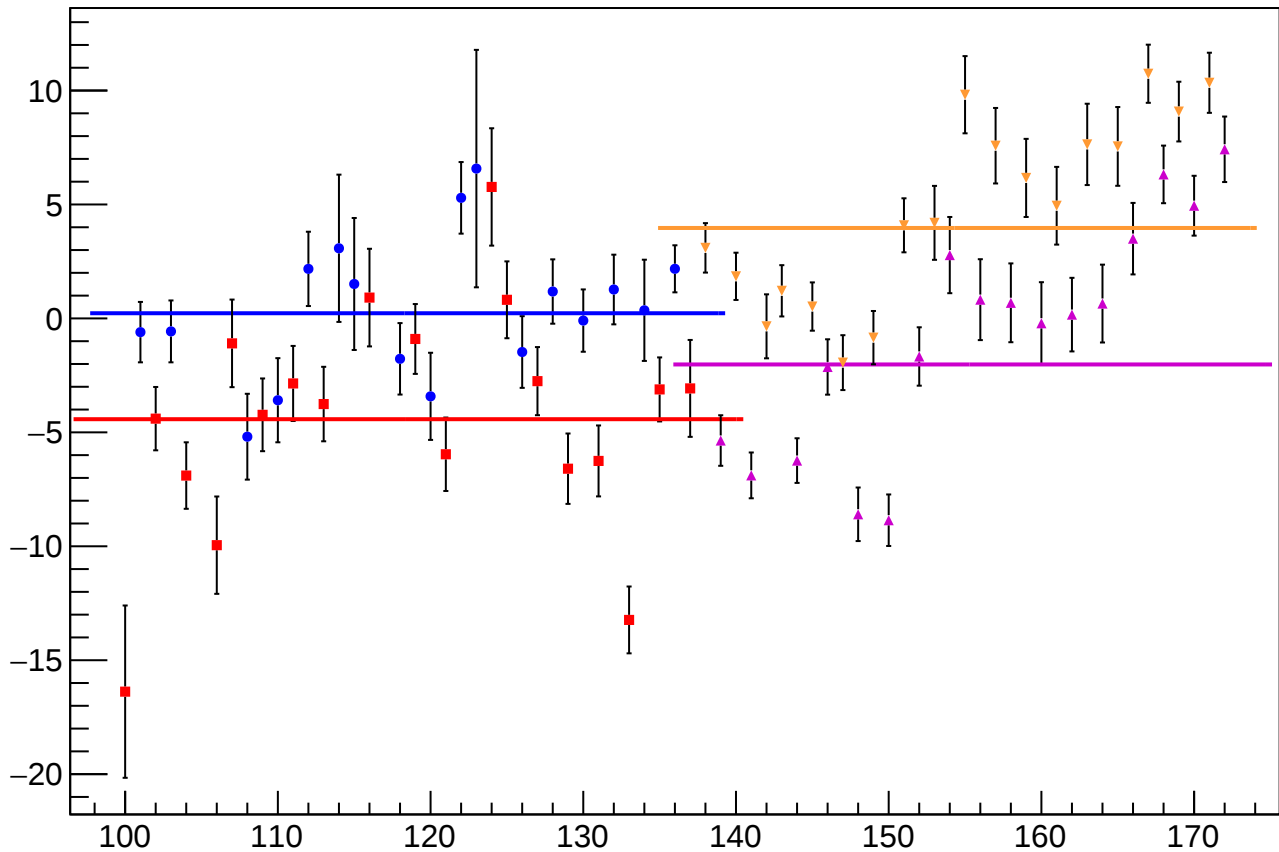
Right: 896.461 $\pm$ 0.171 χ^2 /NDF: 217184.3/35

In: 981.682 $\pm$ 0.159 χ^2 /NDF:1508291.5/33

Out: 976.041 $\pm$ 0.155 χ^2 /NDF:1552961.5/36

All: 978.795 $\pm$ 0.111 χ^2 /NDF: 3061897.1/70

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 χ^2/NDF : 38.5/16

Left Out: 3.969 ± 0.312 χ^2/NDF : 165.7/17

Right Out: -4.423 ± 0.387 χ^2/NDF : 103.3/18

Left In: -2.021 ± 0.320 χ^2/NDF : 264.8/16

Left: 1.051 ± 0.223 χ^2/NDF : 610.4/34

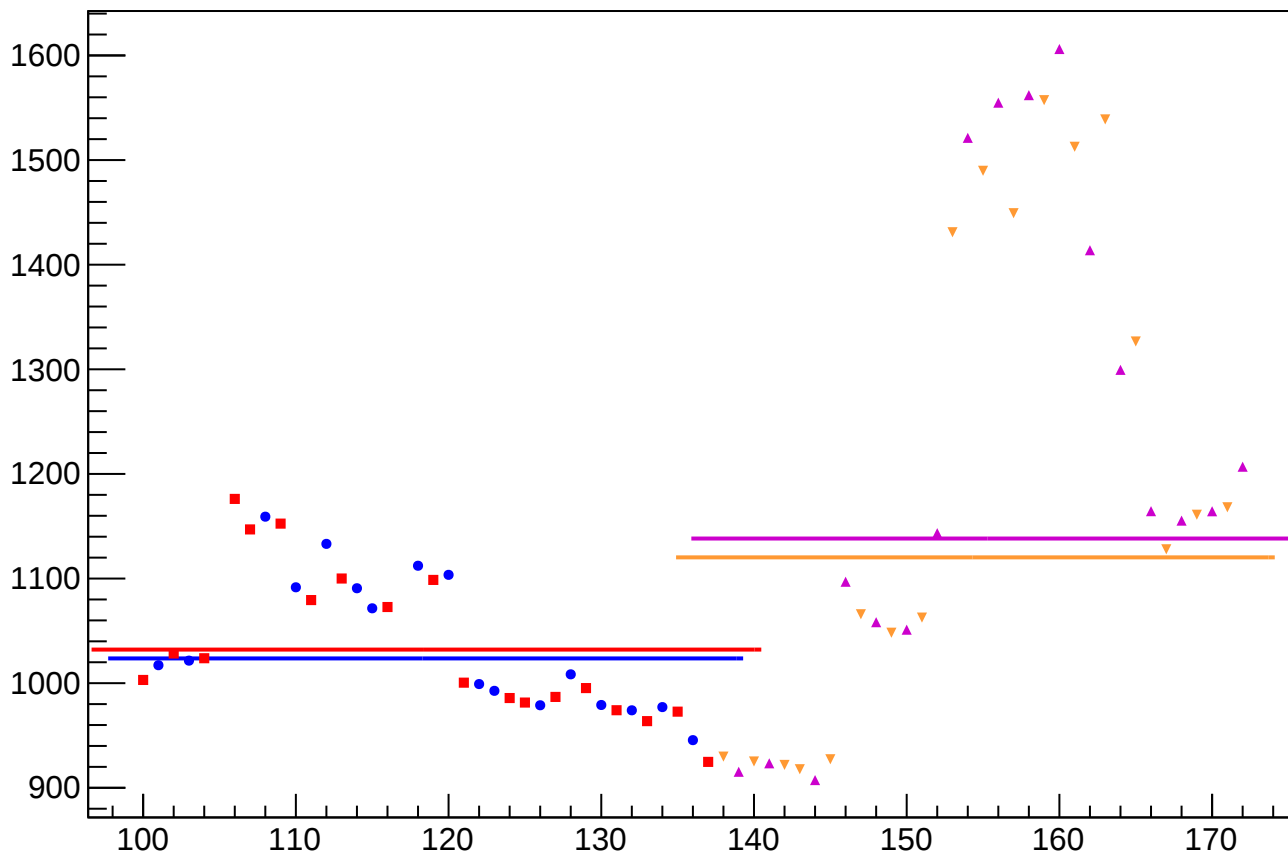
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -1.131 ± 0.249 χ^2/NDF : 322.9/33

Out: 0.665 ± 0.243 χ^2/NDF : 554.5/36

All: -0.211 ± 0.174 χ^2/NDF : 904.1/70

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 $\pm$ 0.279 χ^2 /NDF: 52373.8/16

Left Out: 1120.250 $\pm$ 0.220 χ^2 /NDF: 946320.6/17

Right Out: 1032.107 $\pm$ 0.273 χ^2 /NDF: 59391.6/18

Left In: 1138.254 $\pm$ 0.226 χ^2 /NDF: 859124.5/16

Left: 1129.020 $\pm$ 0.158 χ^2 /NDF: 1808696.4/34

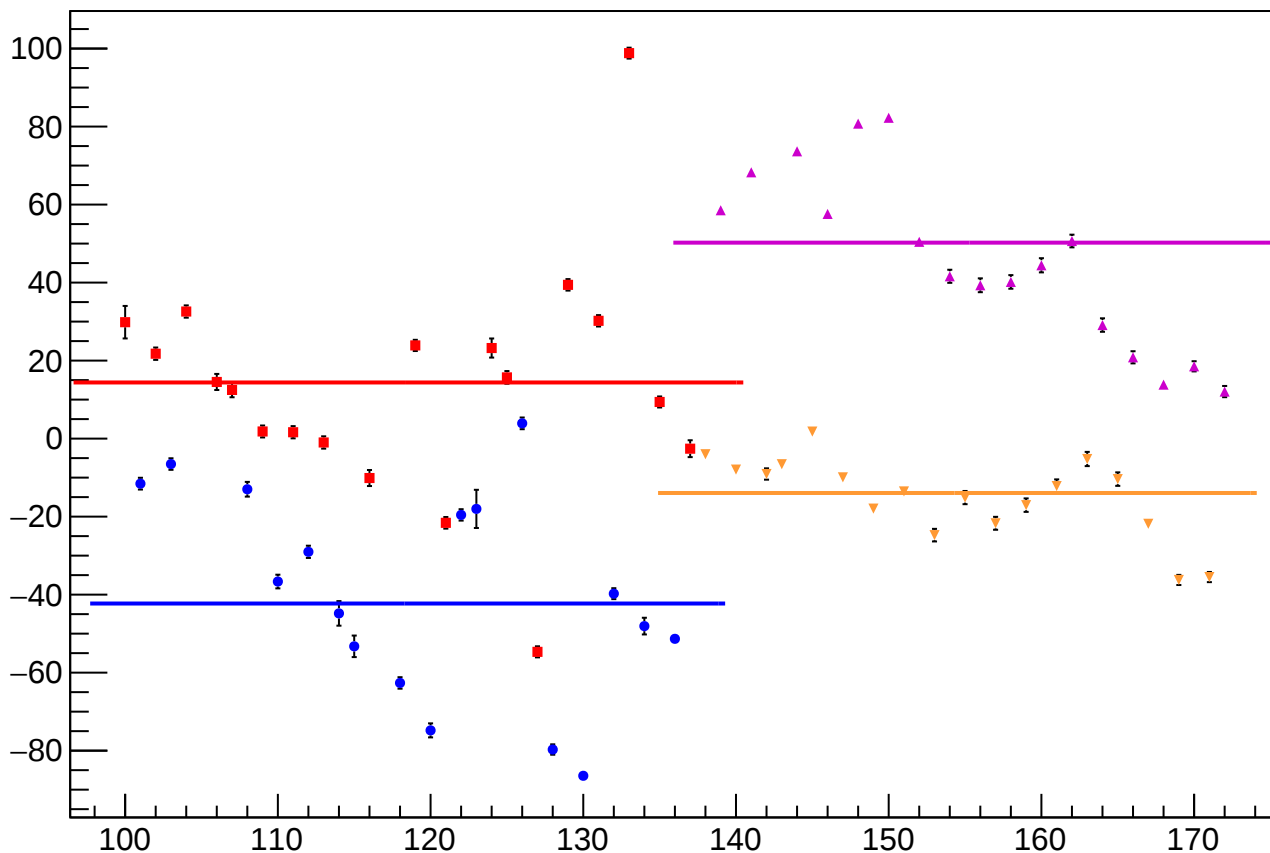
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1092.880 $\pm$ 0.176 χ^2 /NDF: 1013196.5/33

Out: 1085.546 $\pm$ 0.172 χ^2 /NDF: 1068704.7/36

All: 1089.125 $\pm$ 0.123 χ^2 /NDF: 2082792.8/70

diff_bpm2i02X_mean vs Slug, Sign Corrected



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

Left Out: -13.938 ± 0.317 $\chi^2/\text{NDF}: 1096.9/17$

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

Left In: 50.239 ± 0.326 $\chi^2/\text{NDF}: 4935.8/16$

Left: 17.208 ± 0.227 $\chi^2/\text{NDF}: 25931.3/34$

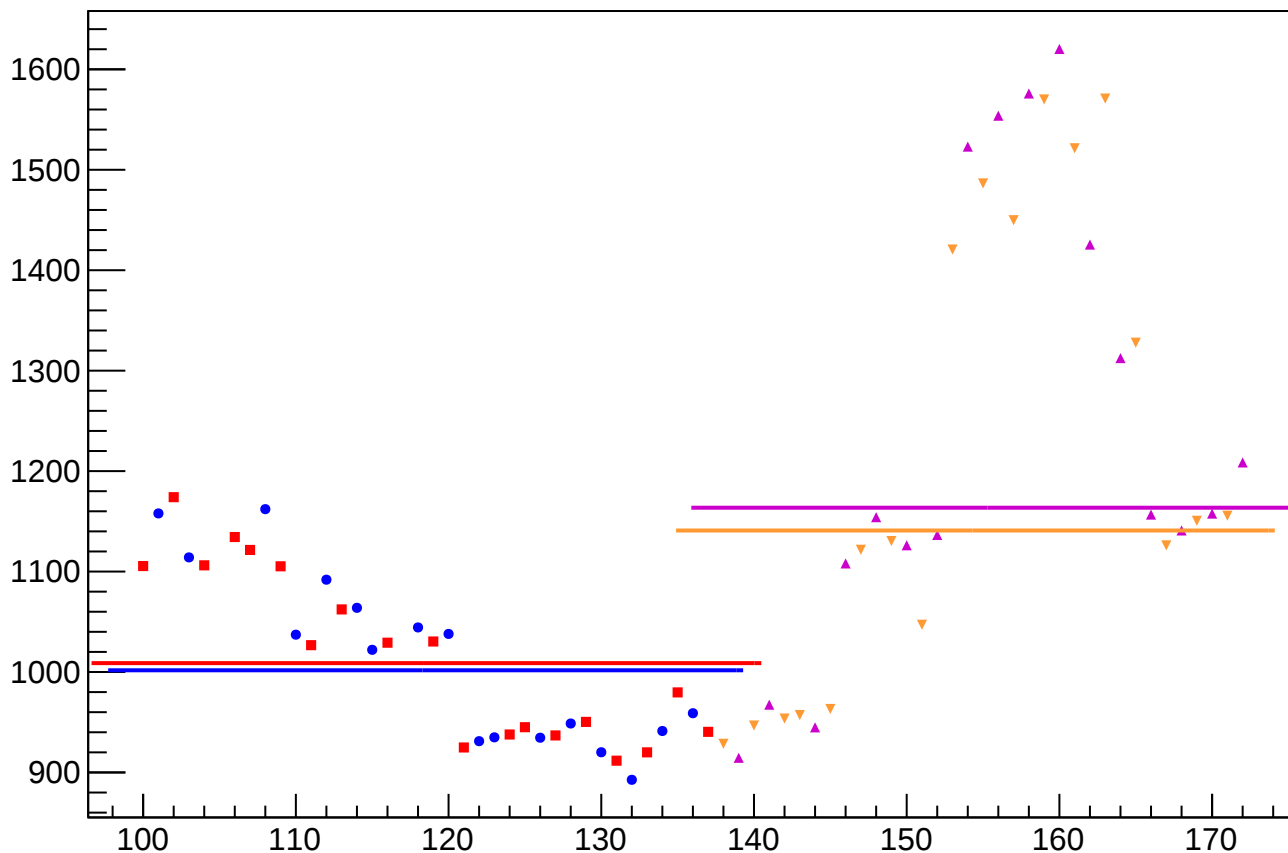
Right: -13.301 ± 0.271 $\chi^2/\text{NDF}: 23754.3/35$

In: 11.799 ± 0.250 $\chi^2/\text{NDF}: 43446.4/33$

Out: -2.259 ± 0.243 $\chi^2/\text{NDF}: 12060.6/36$

All: 4.583 ± 0.174 $\chi^2/\text{NDF}: 57136.0/70$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 +/- 0.274 χ^2/NDF : 95480.0/16

Left Out: 1140.877 +/- 0.224 χ^2/NDF : 861613.0/17

Right Out: 1008.848 +/- 0.268 χ^2/NDF : 95349.9/18

Left In: 1163.561 +/- 0.231 χ^2/NDF : 764817.2/16

Left: 1151.886 +/- 0.161 χ^2/NDF : 1631402.2/34

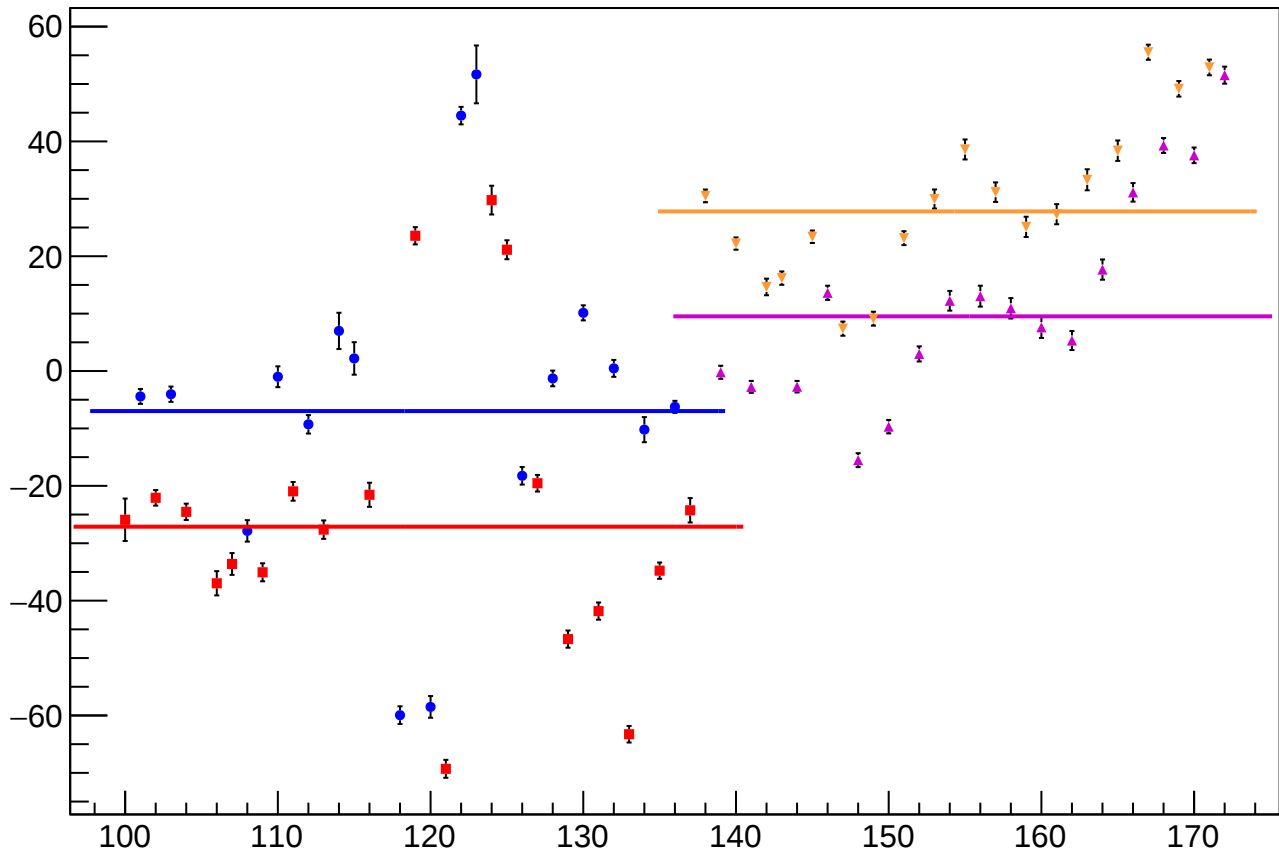
Right: 1005.358 +/- 0.191 χ^2/NDF : 191177.9/35

In: 1096.311 +/- 0.176 χ^2/NDF : 1064644.4/33

Out: 1086.451 +/- 0.172 χ^2/NDF : 1100028.2/36

All: 1091.250 +/- 0.123 χ^2/NDF : 2166275.5/70

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 27.807 ± 0.321 χ^2/NDF : 1877.7/17

Right Out: -27.116 ± 0.380 χ^2/NDF : 4283.5/18

Left In: 9.523 ± 0.329 χ^2/NDF : 3054.4/16

Left: 18.906 ± 0.230 χ^2/NDF : 6512.6/34

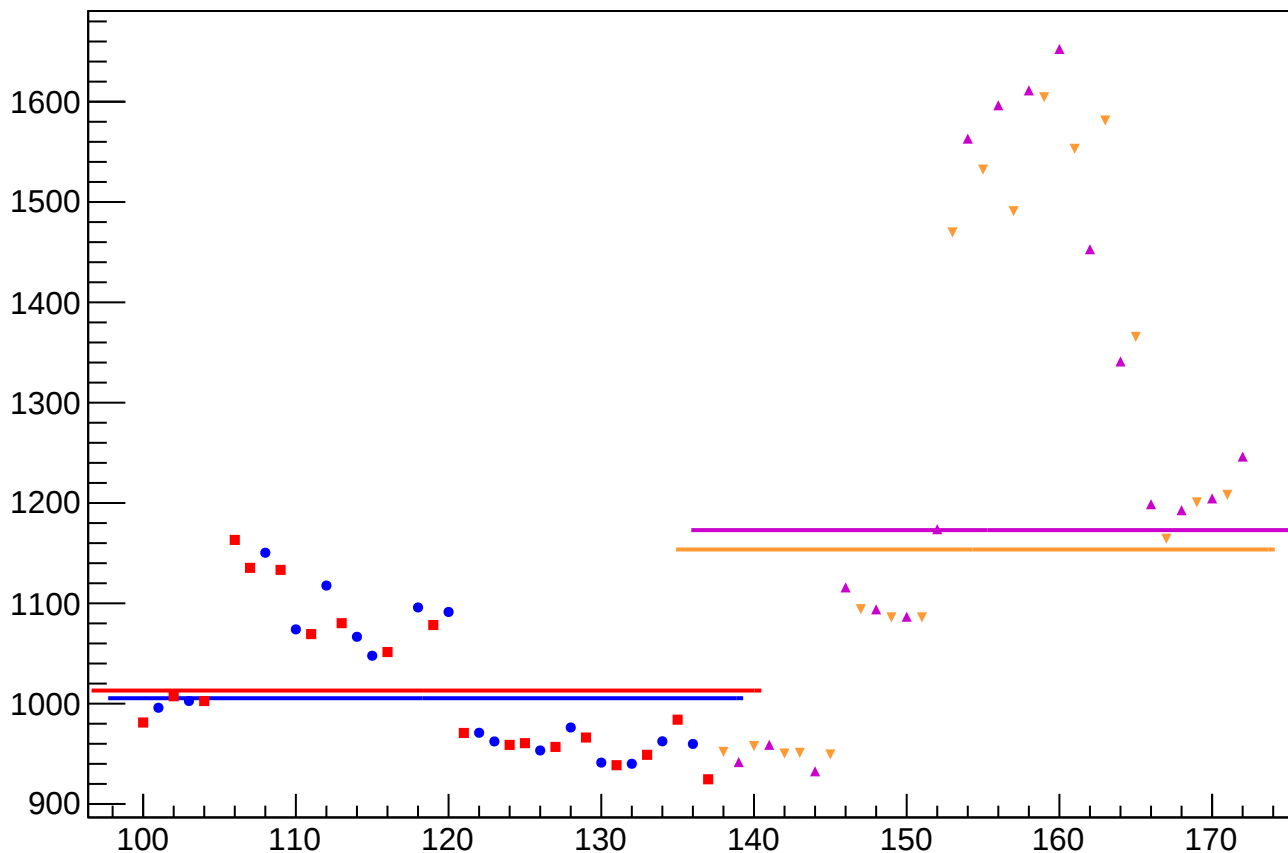
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: 2.611 ± 0.251 χ^2/NDF : 7741.9/33

Out: 4.917 ± 0.245 χ^2/NDF : 18371.0/36

All: 3.792 ± 0.175 χ^2/NDF : 26156.0/70

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 +/- 0.274 χ^2/NDF : 54586.0/16

Left Out: 1153.652 +/- 0.227 χ^2/NDF : 942728.4/17

Right Out: 1013.064 +/- 0.268 χ^2/NDF : 63265.7/18

Left In: 1172.973 +/- 0.233 χ^2/NDF : 851778.6/16

Left: 1163.058 +/- 0.163 χ^2/NDF : 1798037.1/34

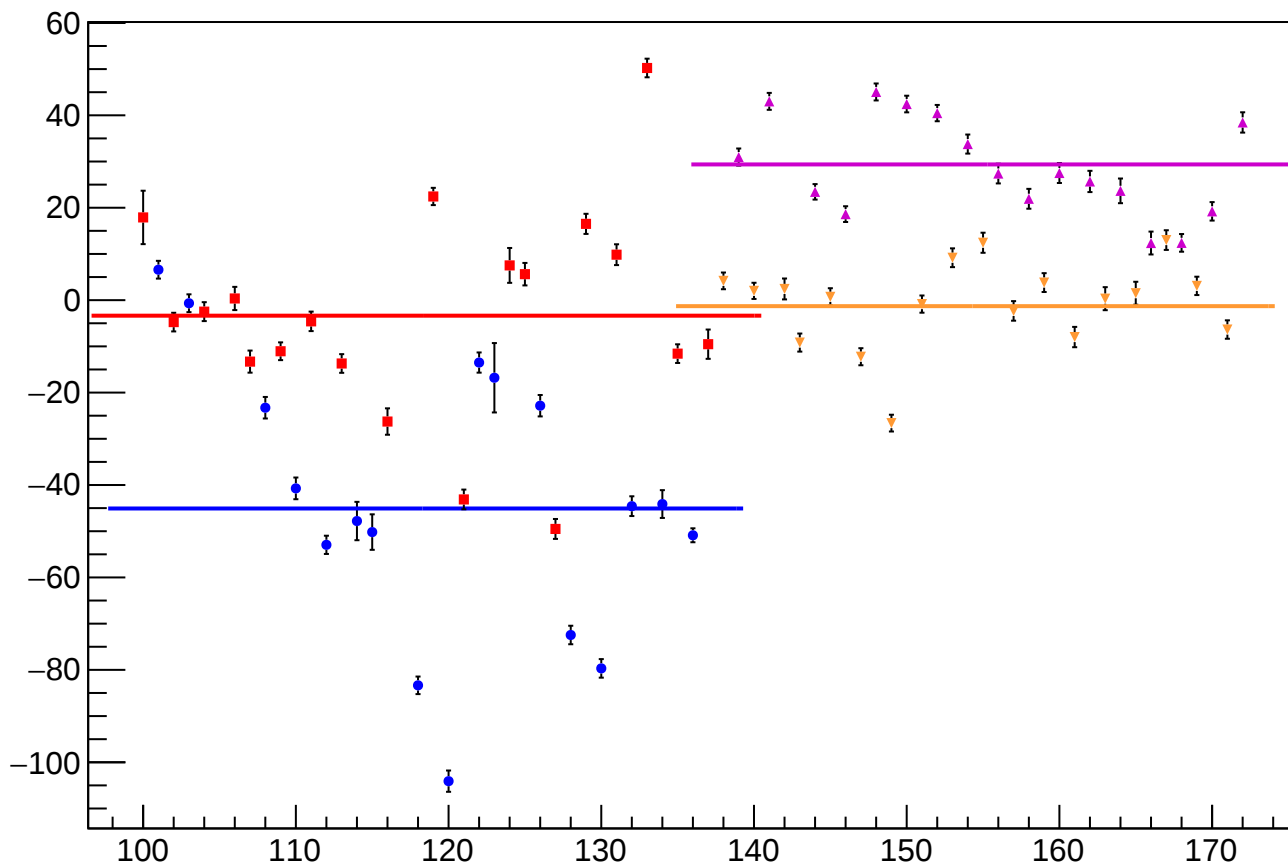
Right: 1009.320 +/- 0.192 χ^2/NDF : 118249.5/35

In: 1102.766 +/- 0.178 χ^2/NDF : 1123142.1/33

Out: 1095.059 +/- 0.173 χ^2/NDF : 1165999.7/36

All: 1098.818 +/- 0.124 χ^2/NDF : 2290106.7/70

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -1.297 ± 0.475 χ^2/NDF : 402.9/17

Right Out: -3.358 ± 0.522 χ^2/NDF : 2005.7/18

Left In: 29.371 ± 0.481 χ^2/NDF : 468.2/16

Left: 13.840 ± 0.338 χ^2/NDF : 2931.2/34

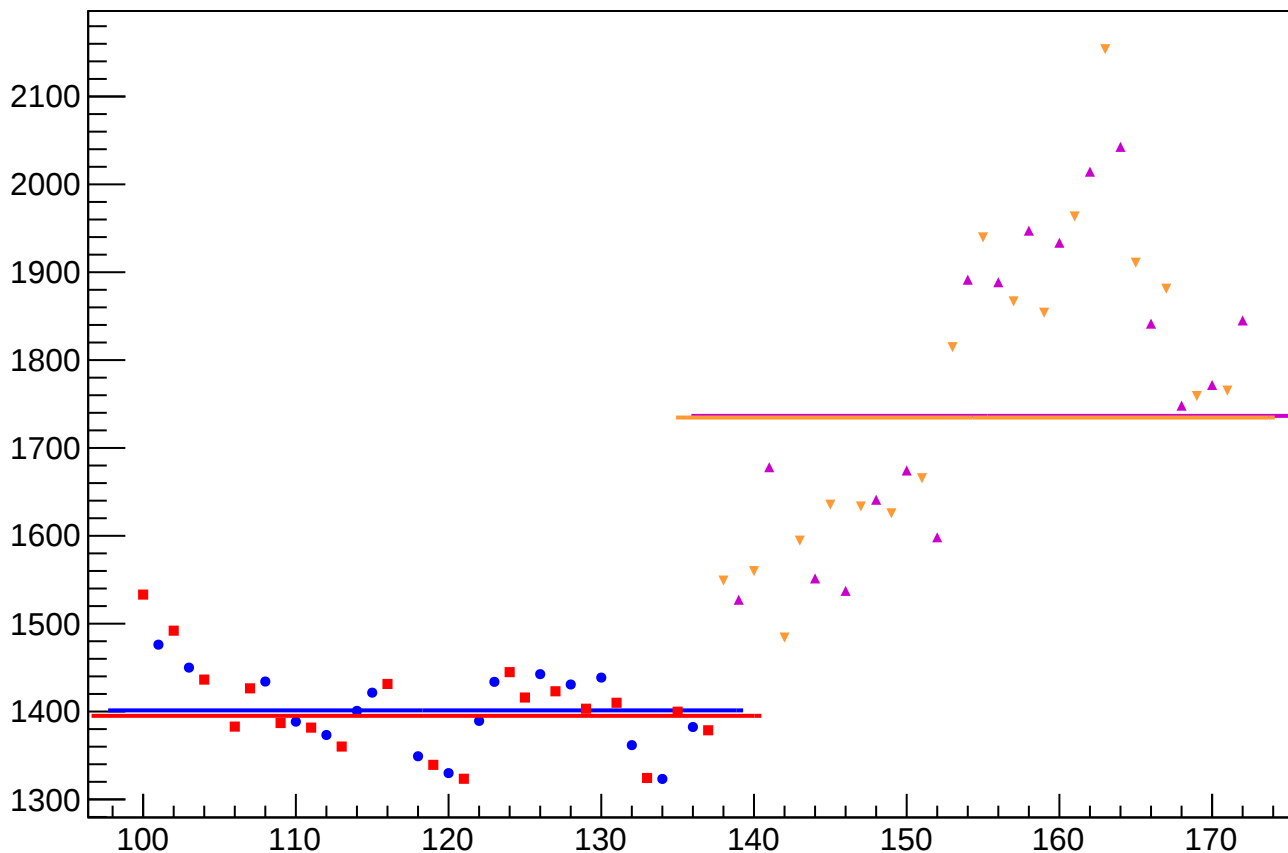
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -3.575 ± 0.359 χ^2/NDF : 14315.5/33

Out: -2.230 ± 0.351 χ^2/NDF : 2417.1/36

All: -2.888 ± 0.251 χ^2/NDF : 16739.8/70

diff_bpm0i02X_rms vs Slug, Sign Corrected



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

Left Out: 1734.602 $\pm$ 0.336 χ^2 /NDF: 231694.0/17

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

Left In: 1736.504 $\pm$ 0.340 χ^2 /NDF: 221334.2/16

Left: 1735.541 $\pm$ 0.239 χ^2 /NDF: 453044.0/34

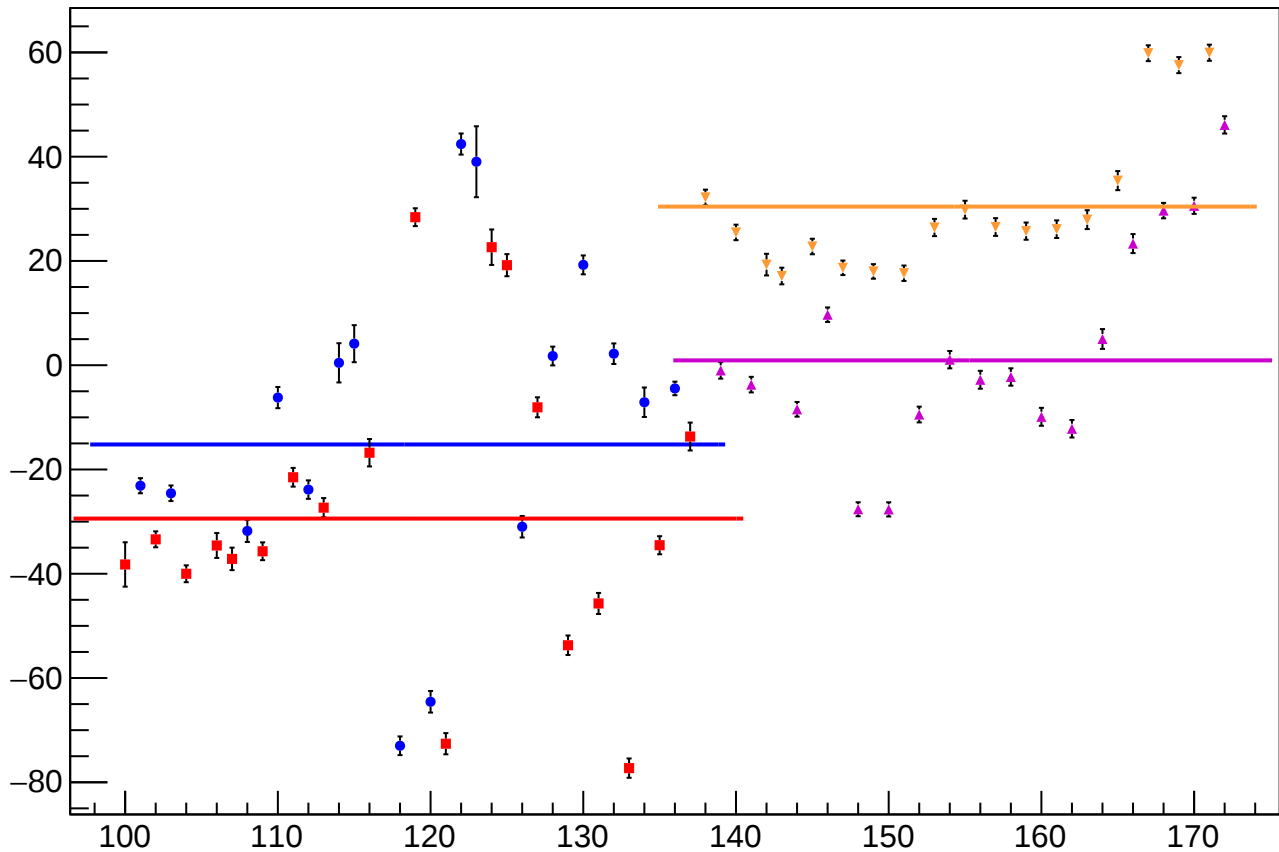
Right: 1398.102 $\pm$ 0.265 χ^2 /NDF: 28508.5/35

In: 1588.173 $\pm$ 0.254 χ^2 /NDF: 664280.4/33

Out: 1580.869 $\pm$ 0.248 χ^2 /NDF: 710443.1/36

All: 1584.440 $\pm$ 0.178 χ^2 /NDF: 1375146.5/70

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 30.425 ± 0.375 χ^2/NDF : 1447.8/17

Right Out: -29.418 ± 0.456 χ^2/NDF : 3544.8/18

Left In: 0.929 ± 0.379 χ^2/NDF : 2780.6/16

Left: 15.827 ± 0.267 χ^2/NDF : 7289.4/34

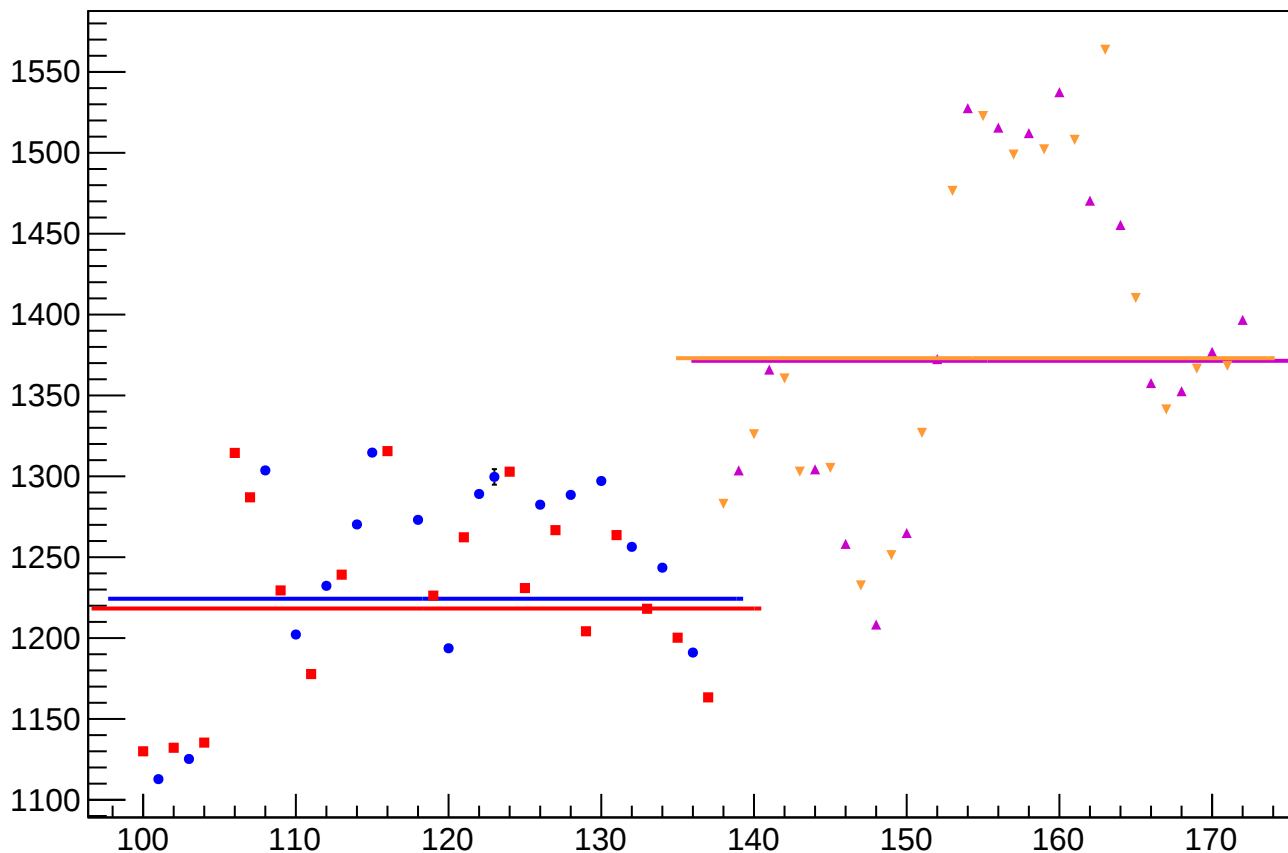
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -5.390 ± 0.295 χ^2/NDF : 6853.2/33

Out: 6.290 ± 0.290 χ^2/NDF : 15260.4/36

All: 0.565 ± 0.207 χ^2/NDF : 22910.1/70

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1373.034+/-0.265 χ^2/NDF : 137982.3/17

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1371.420+/-0.268 χ^2/NDF : 139697.0/16

Left: 1372.235+/-0.188 χ^2/NDF : 277697.7/34

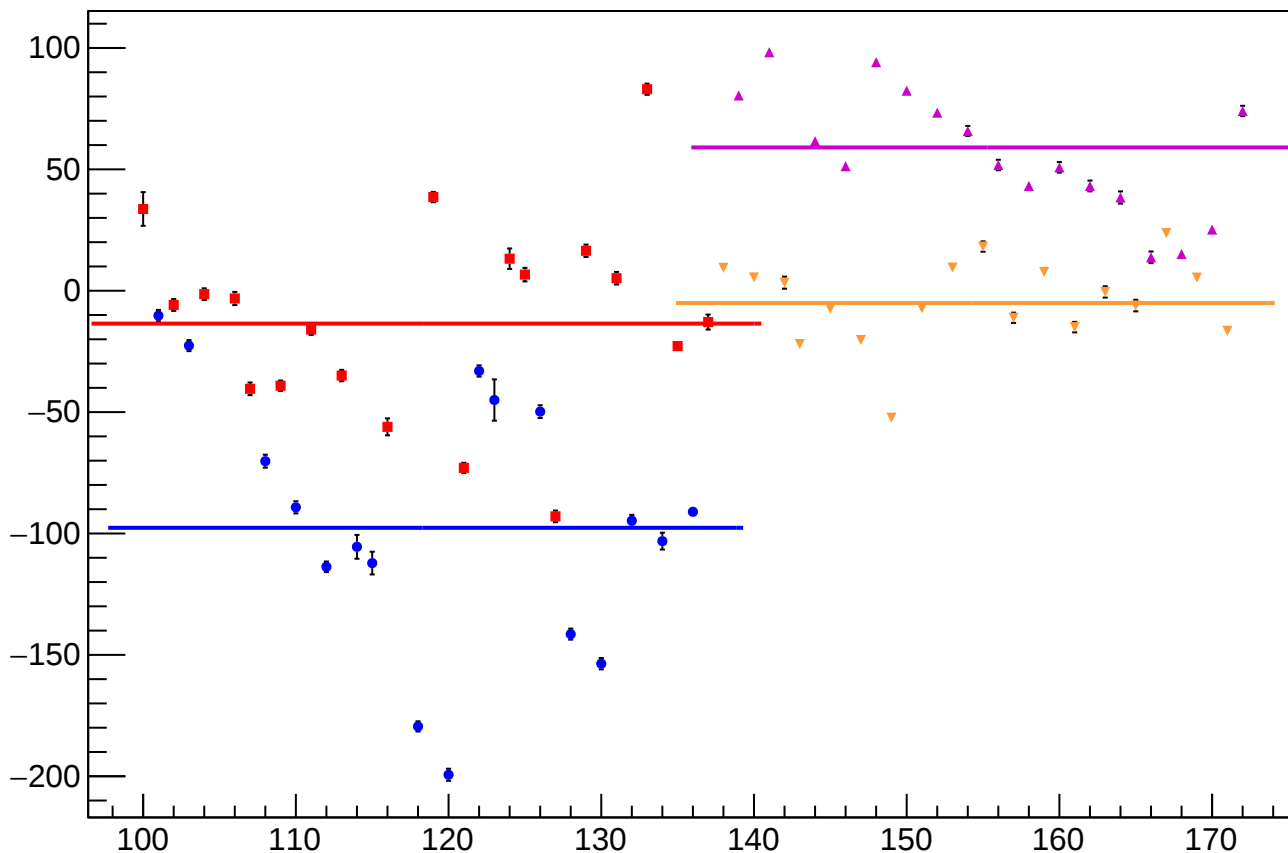
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1313.792+/-0.209 χ^2/NDF : 296571.6/33

Out: 1310.618+/-0.205 χ^2/NDF : 302893.0/36

All: 1312.174+/-0.146 χ^2/NDF : 599582.2/70

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 $\chi^2/\text{NDF}: 7936.6/16$

Left Out: -5.061 ± 0.472 $\chi^2/\text{NDF}: 1432.8/17$

Right Out: -13.538 ± 0.579 $\chi^2/\text{NDF}: 5128.2/18$

Left In: 59.023 ± 0.480 $\chi^2/\text{NDF}: 2674.7/16$

Left: 26.462 ± 0.337 $\chi^2/\text{NDF}: 13165.2/34$

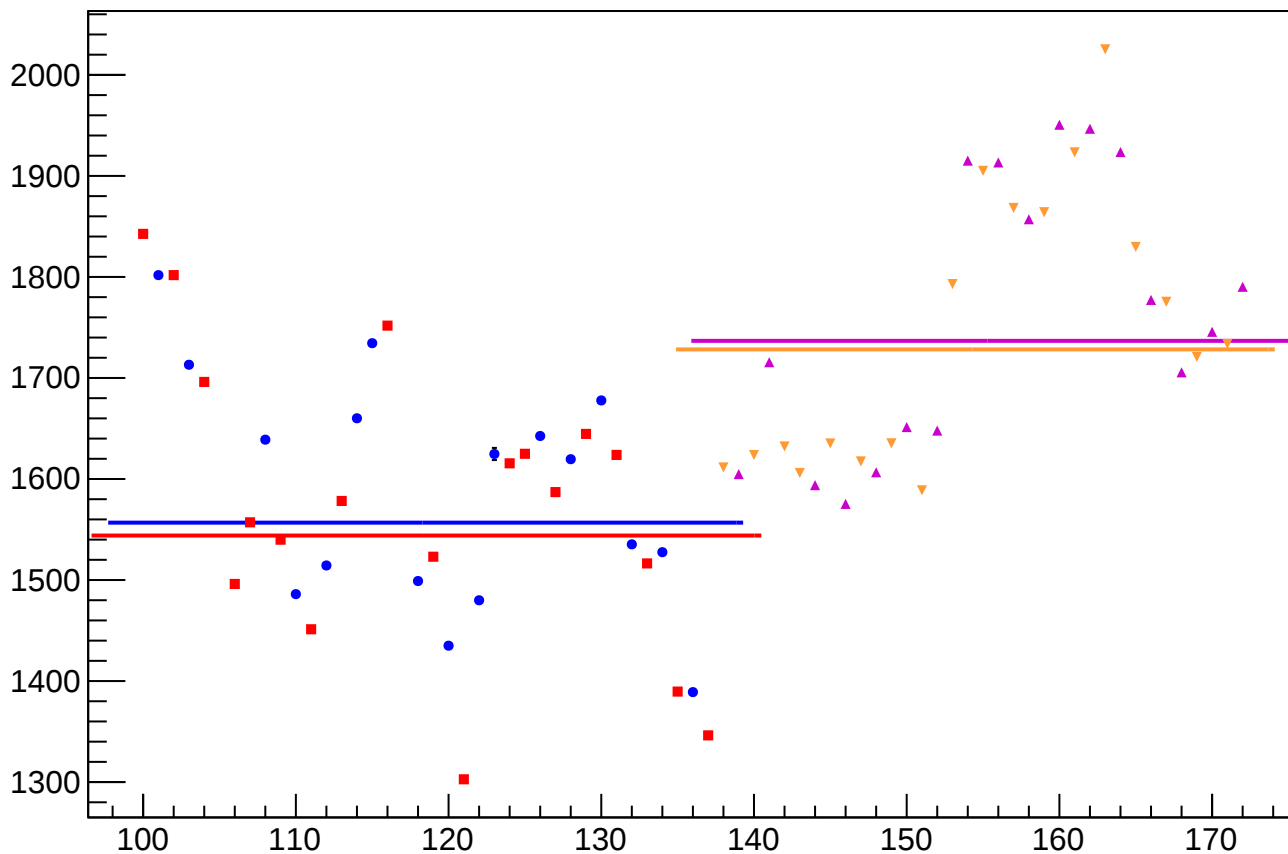
Right: -54.035 ± 0.417 $\chi^2/\text{NDF}: 23213.1/35$

In: -1.952 ± 0.375 $\chi^2/\text{NDF}: 52081.8/33$

Out: -8.445 ± 0.366 $\chi^2/\text{NDF}: 6689.6/36$

All: -5.278 ± 0.262 $\chi^2/\text{NDF}: 58924.9/70$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1728.272 $\pm$ 0.334 χ^2 /NDF:141478.7/17

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1736.756 $\pm$ 0.339 χ^2 /NDF:145708.9/16

Left: 1732.445 $\pm$ 0.238 χ^2 /NDF: 287505.1/34

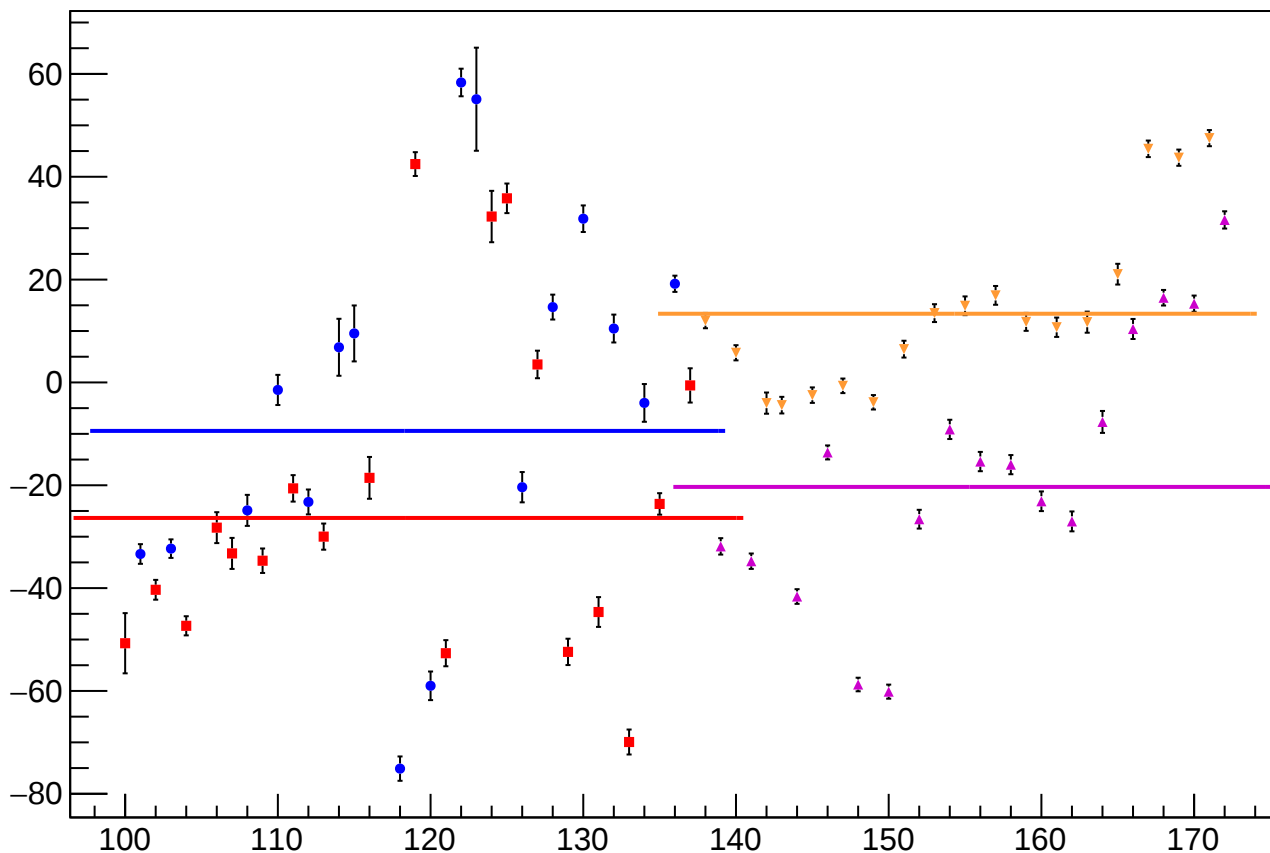
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1666.722 $\pm$ 0.265 χ^2 /NDF:336672.9/33

Out: 1654.725 $\pm$ 0.259 χ^2 /NDF:363488.3/36

All: 1660.577 $\pm$ 0.185 χ^2 /NDF: 701209.1/70

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 $\chi^2/\text{NDF}: 2924.1/16$

Left Out: 13.360 ± 0.390 $\chi^2/\text{NDF}: 1859.0/17$

Right Out: -26.354 ± 0.603 $\chi^2/\text{NDF}: 2472.1/18$

Left In: -20.318 ± 0.397 $\chi^2/\text{NDF}: 4499.4/16$

Left: -3.189 ± 0.278 $\chi^2/\text{NDF}: 10019.9/34$

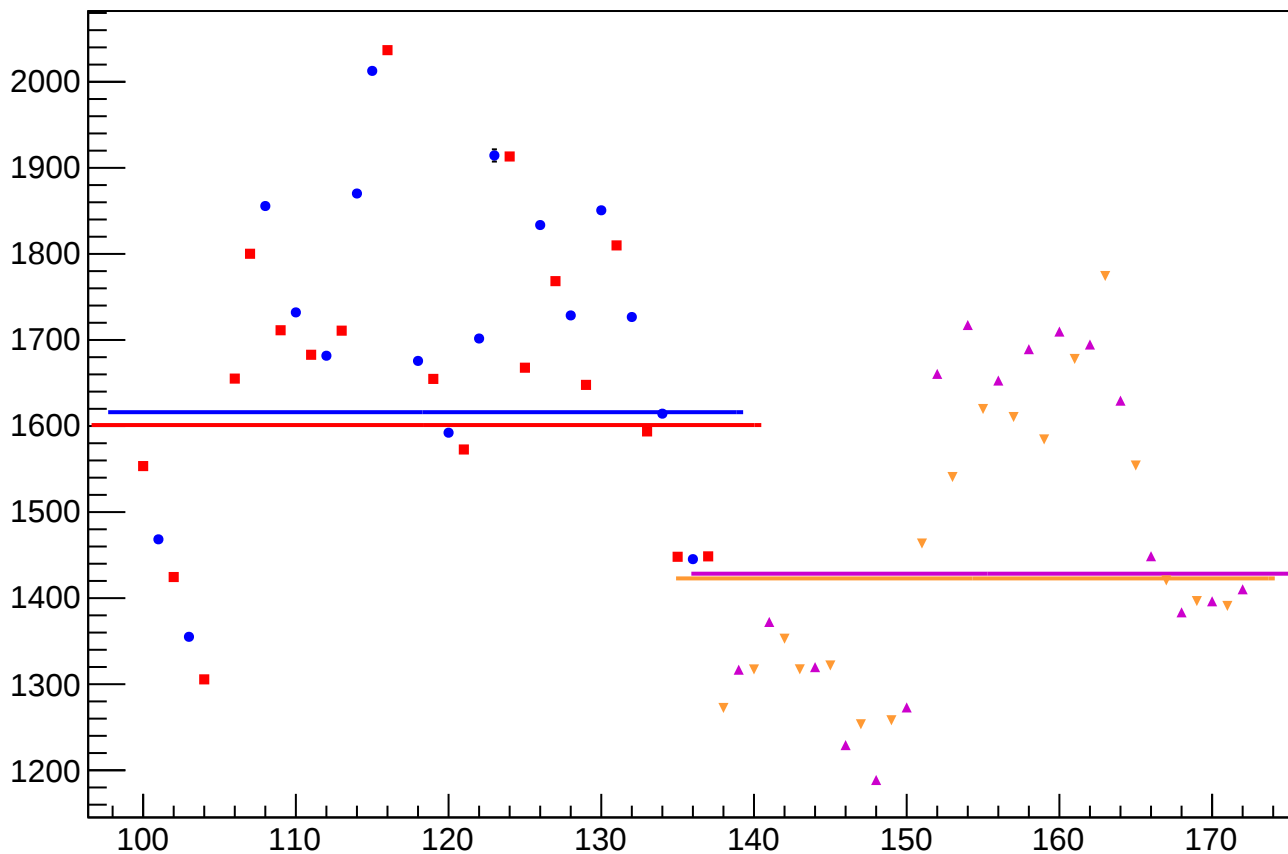
Right: -18.216 ± 0.434 $\chi^2/\text{NDF}: 5775.3/35$

In: -17.198 ± 0.335 $\chi^2/\text{NDF}: 7639.2/33$

Out: 1.635 ± 0.328 $\chi^2/\text{NDF}: 7390.2/36$

All: -7.561 ± 0.234 $\chi^2/\text{NDF}: 16643.9/70$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2/NDF : 149596.3/16

Left Out: 1422.931 $\pm$ 0.276 χ^2/NDF : 284101.6/17

Right Out: 1601.134 $\pm$ 0.426 χ^2/NDF : 153651.5/18

Left In: 1428.418 $\pm$ 0.281 χ^2/NDF : 408148.4/16

Left: 1425.627 $\pm$ 0.197 χ^2/NDF : 692444.4/34

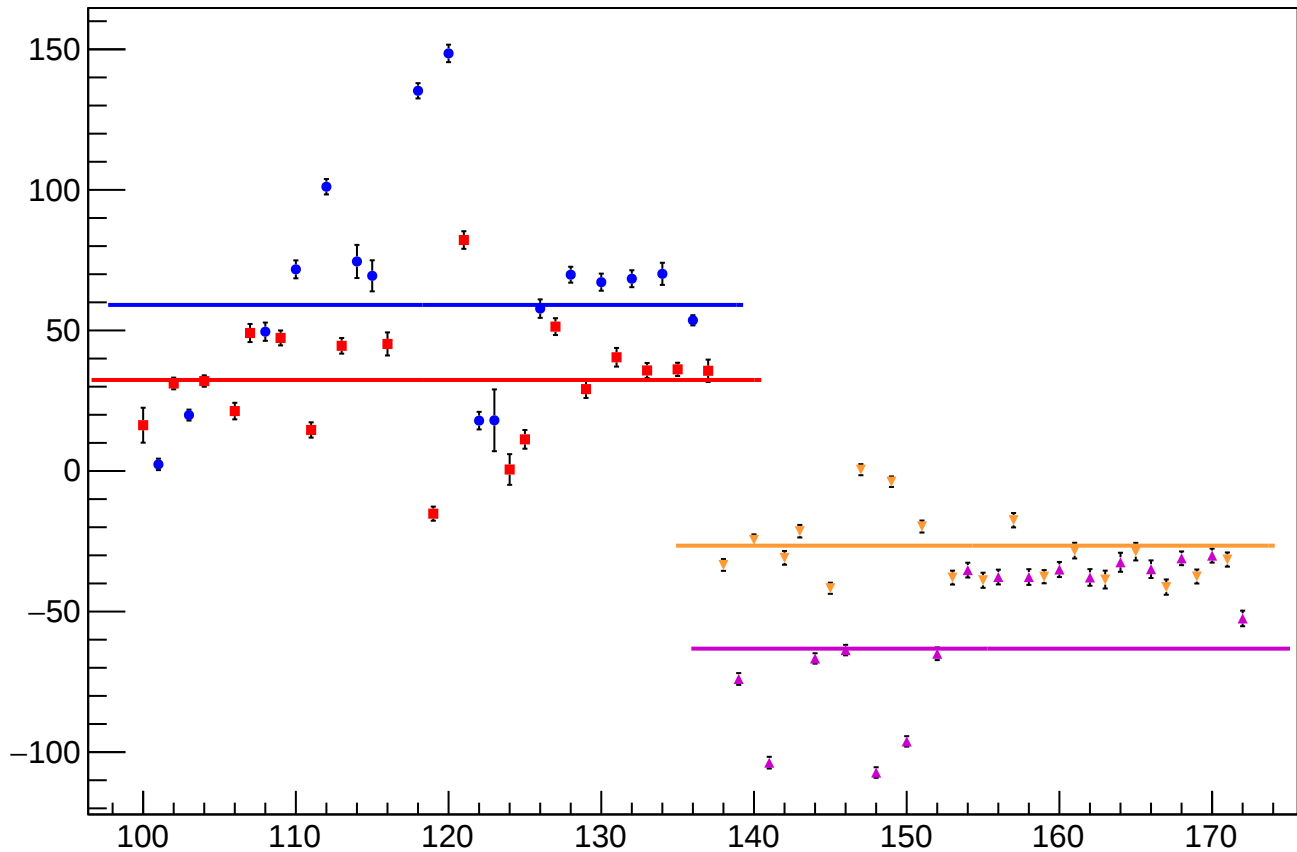
Right: 1608.326 $\pm$ 0.307 χ^2/NDF : 303840.0/35

In: 1482.180 $\pm$ 0.237 χ^2/NDF : 685825.3/33

Out: 1475.544 $\pm$ 0.232 χ^2/NDF : 560940.6/36

All: 1478.785 $\pm$ 0.166 χ^2/NDF : 1247166.7/70

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 $\pm$ 0.699 χ^2 /NDF: 3293.6/16

Left Out: -26.557 $\pm$ 0.551 χ^2 /NDF: 570.3/17

Right Out: 32.382 $\pm$ 0.666 χ^2 /NDF: 891.5/18

Left In: -63.186 $\pm$ 0.566 χ^2 /NDF: 2277.9/16

Left: -44.407 $\pm$ 0.395 χ^2 /NDF: 4999.1/34

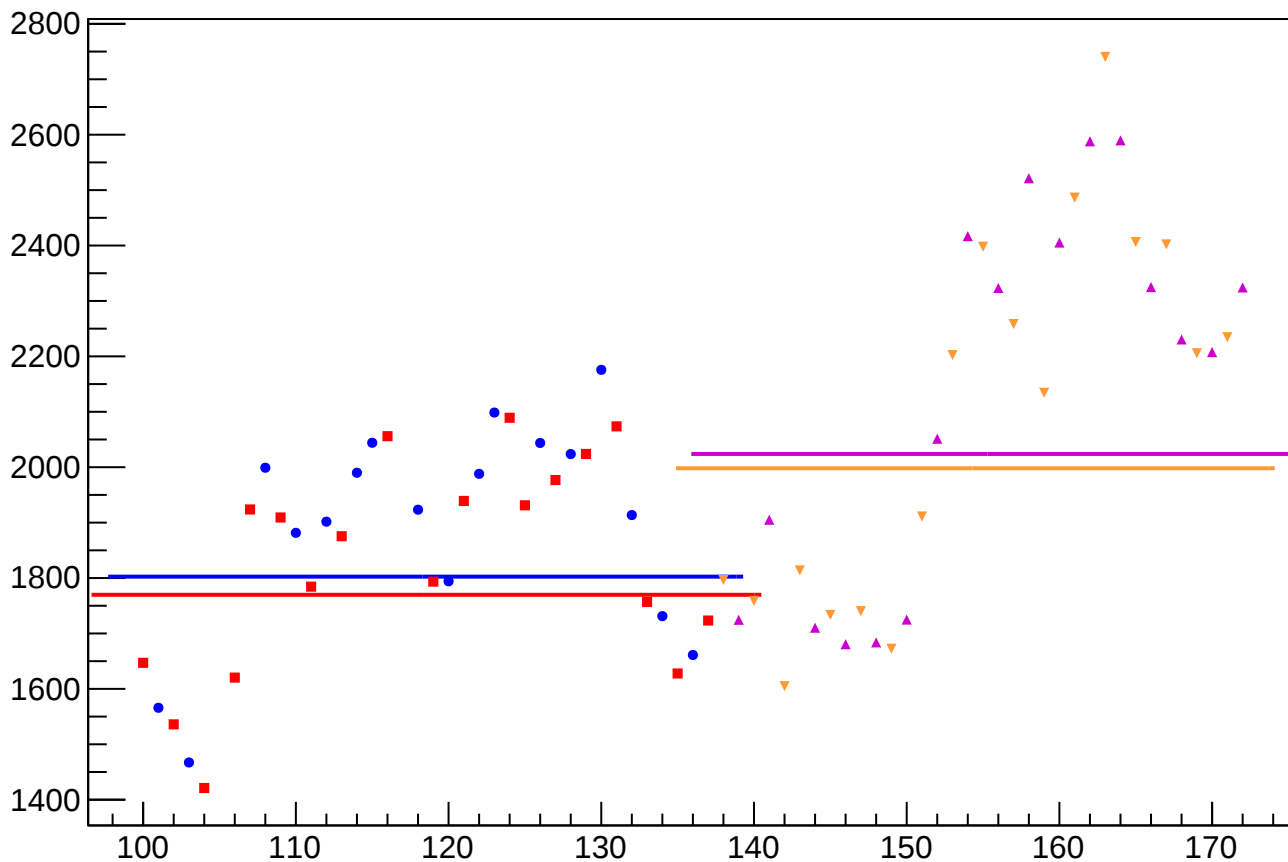
Right: 45.088 $\pm$ 0.483 χ^2 /NDF: 4948.8/35

In: -14.856 $\pm$ 0.440 χ^2 /NDF: 24049.3/33

Out: -2.610 $\pm$ 0.425 χ^2 /NDF: 6104.7/36

All: -8.522 $\pm$ 0.306 χ^2 /NDF: 30555.1/70

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 1998.096+/-0.390 χ^2/NDF : 613042.5/17

Right Out: 1769.772+/-0.471 χ^2/NDF : 177893.4/18

Left In: 2023.913+/-0.400 χ^2/NDF : 660588.6/16

Left: 2010.677+/-0.279 χ^2/NDF : 1275768.0/34

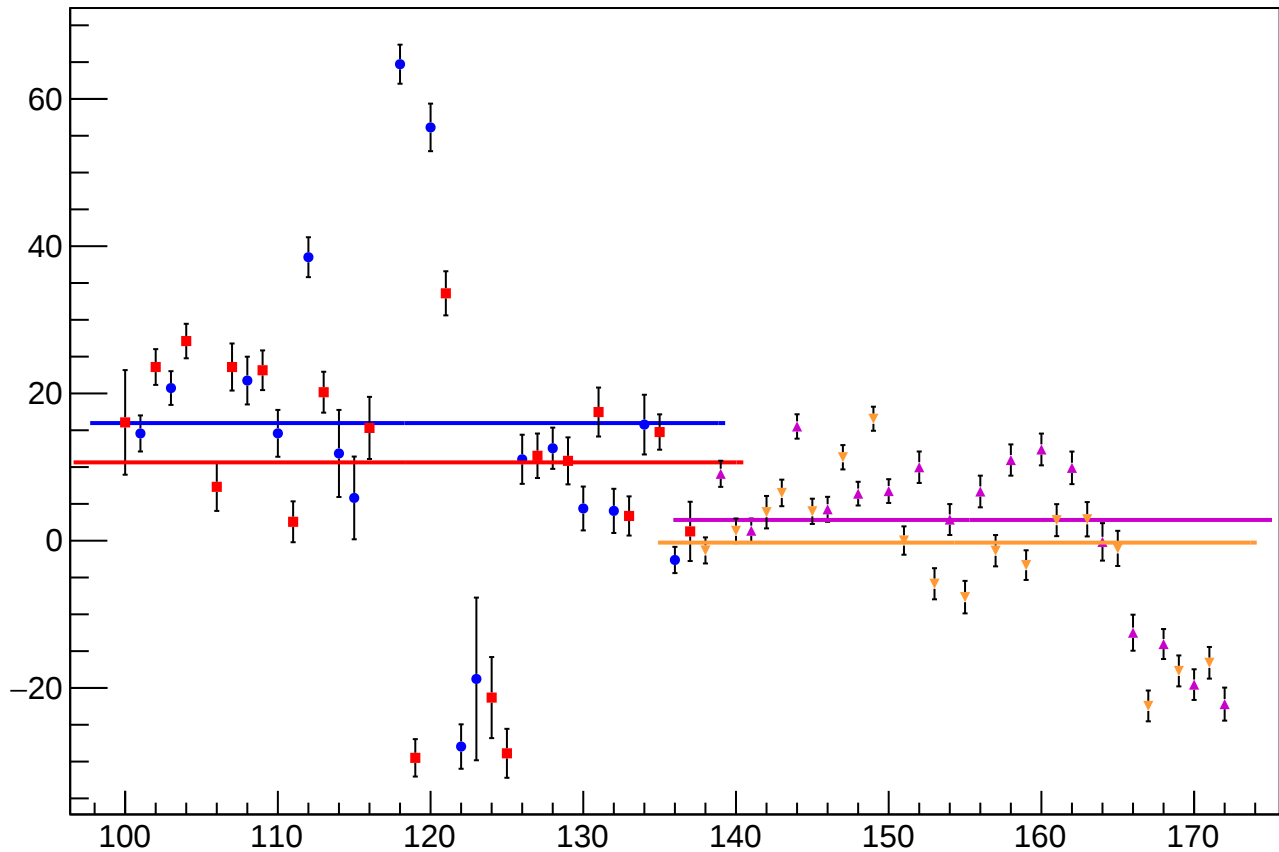
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1936.401+/-0.311 χ^2/NDF : 965819.4/33

Out: 1905.329+/-0.300 χ^2/NDF : 930291.4/36

All: 1920.329+/-0.216 χ^2/NDF : 1901275.6/70

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 $\pm$ 0.722 χ^2 /NDF: 938.4/16

Left Out: -0.259 $\pm$ 0.462 χ^2 /NDF: 443.5/17

Right Out: 10.638 $\pm$ 0.693 χ^2 /NDF: 642.1/18

Left In: 2.817 $\pm$ 0.474 χ^2 /NDF: 491.5/16

Left: 1.242 $\pm$ 0.331 χ^2 /NDF: 956.6/34

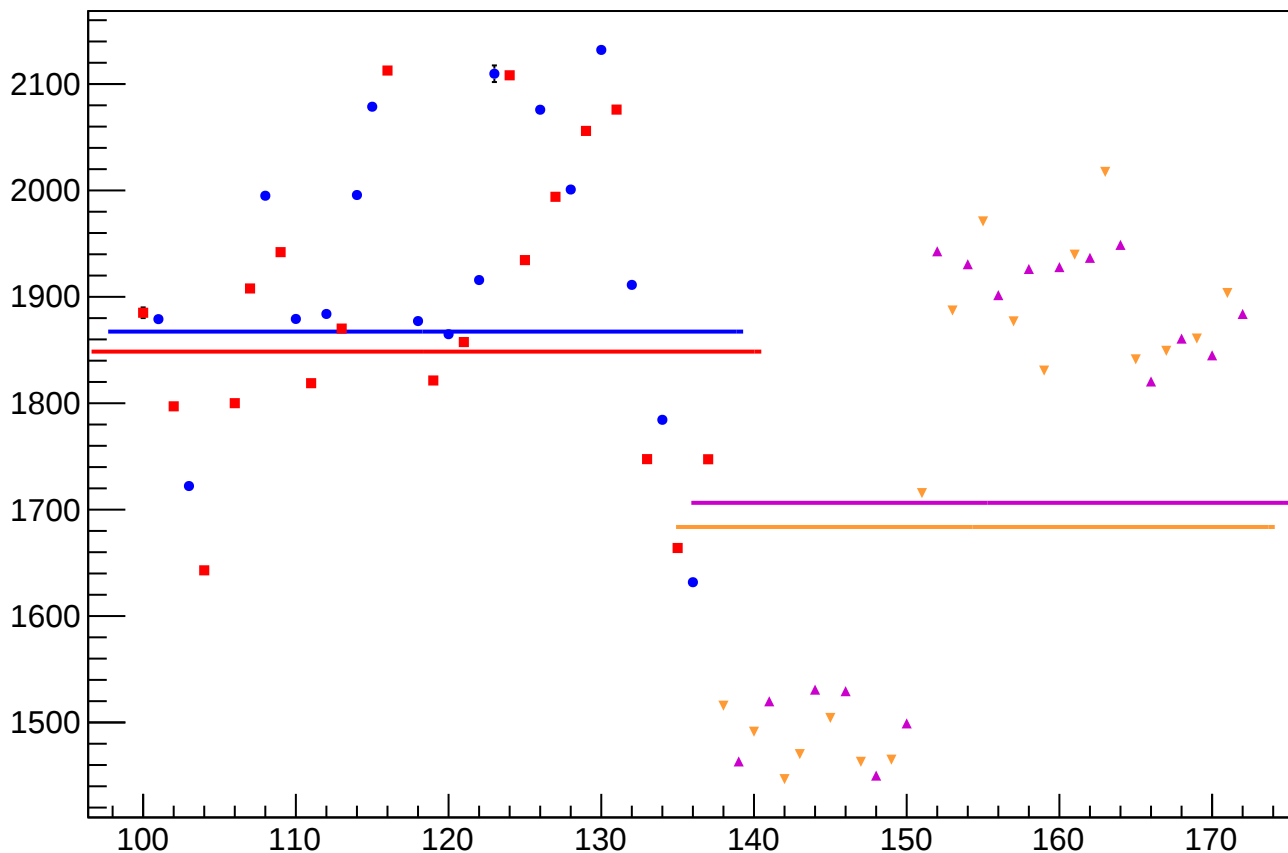
Right: 13.200 $\pm$ 0.500 χ^2 /NDF: 1608.9/35

In: 6.778 $\pm$ 0.396 χ^2 /NDF: 1662.3/33

Out: 3.094 $\pm$ 0.385 χ^2 /NDF: 1256.6/36

All: 4.883 $\pm$ 0.276 χ^2 /NDF: 2963.4/70

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 ± 0.510 χ^2/NDF : 80926.4/16

Left Out: 1683.713 ± 0.327 χ^2/NDF : 394067.9/17

Right Out: 1848.532 ± 0.490 χ^2/NDF : 72527.3/18

Left In: 1706.414 ± 0.335 χ^2/NDF : 374256.0/16

Left: 1694.792 ± 0.234 χ^2/NDF : 770677.3/34

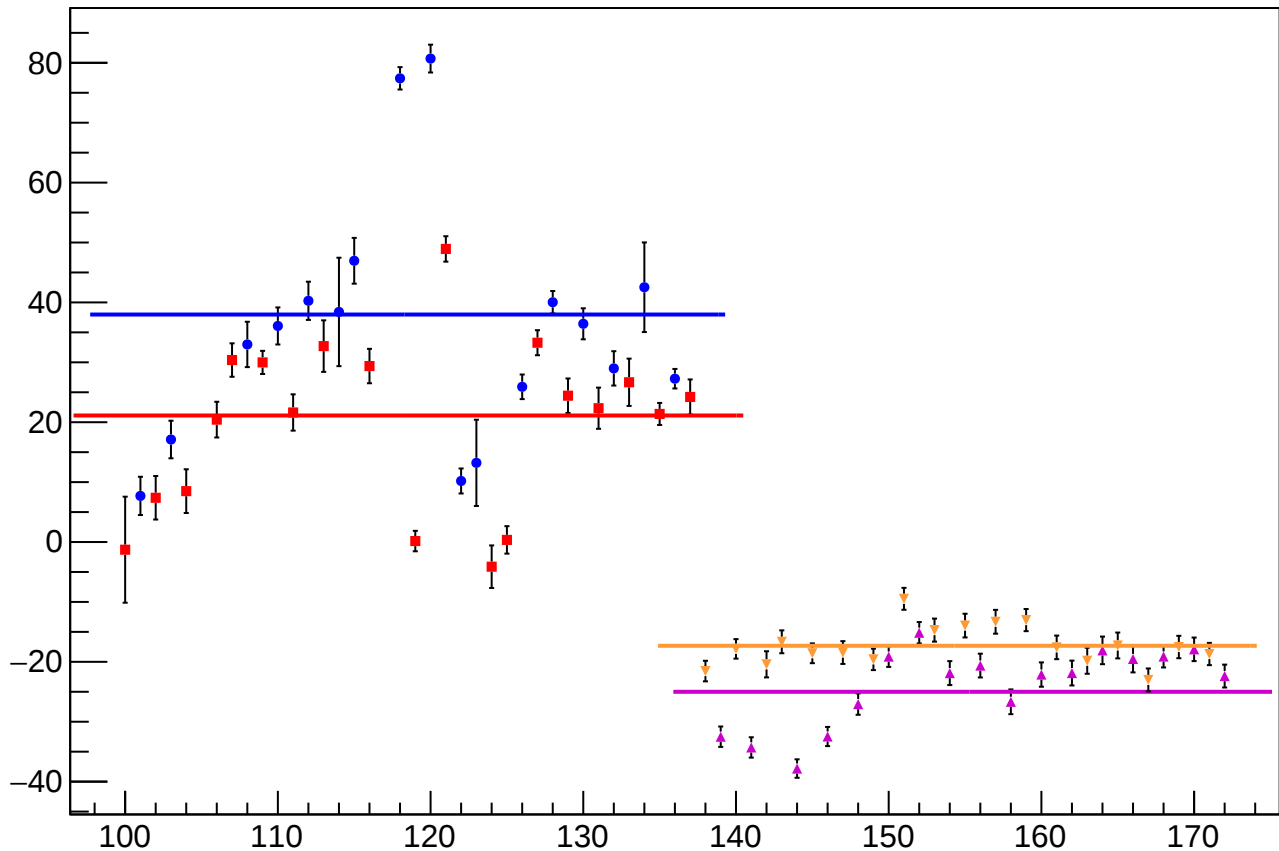
Right: 1857.561 ± 0.354 χ^2/NDF : 154160.4/35

In: 1754.849 ± 0.280 χ^2/NDF : 524711.9/33

Out: 1734.440 ± 0.272 χ^2/NDF : 544828.6/36

All: 1744.351 ± 0.195 χ^2/NDF : 1072274.8/70

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.320 ± 0.445 $\chi^2/\text{NDF}: 54.2/17$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -25.003 ± 0.452 $\chi^2/\text{NDF}: 236.1/16$

Left: -21.102 ± 0.317 $\chi^2/\text{NDF}: 437.3/34$

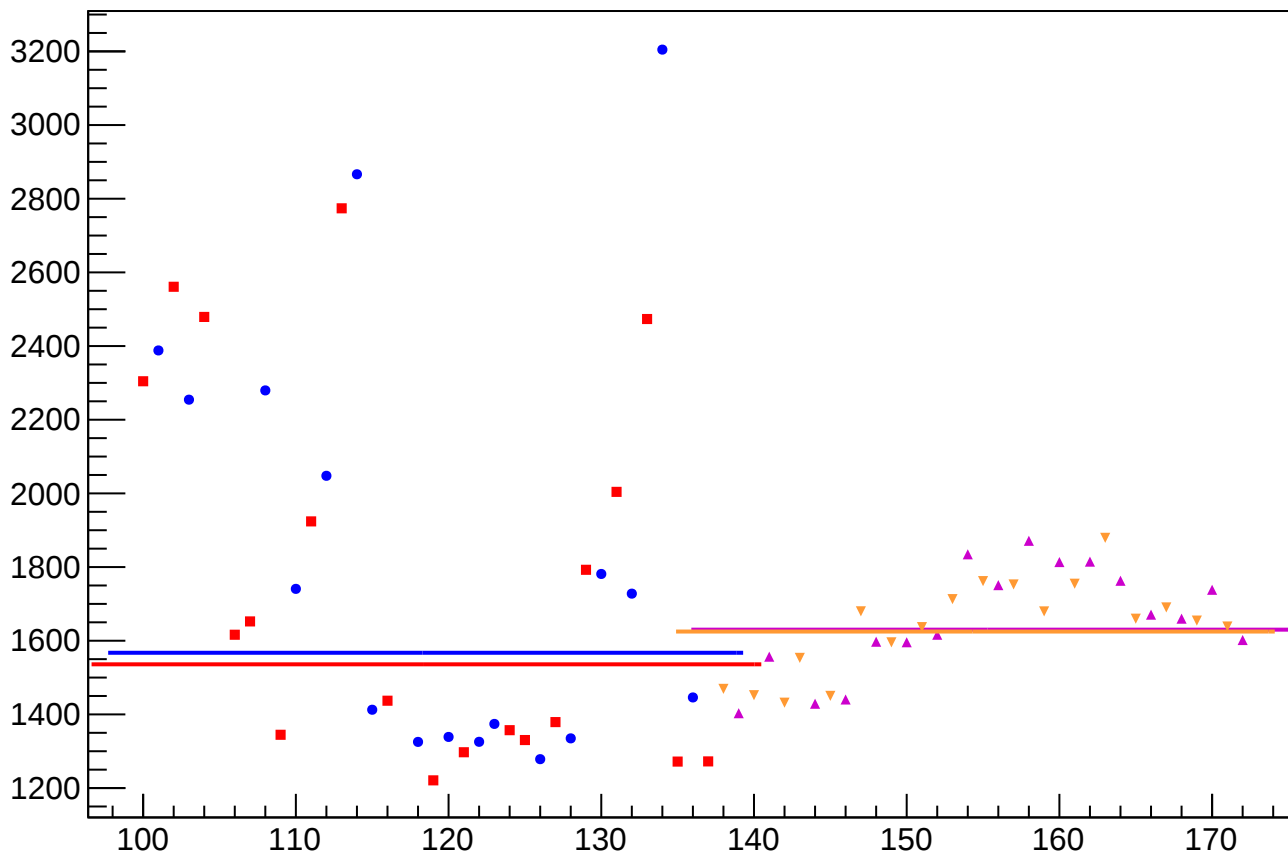
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -3.958 ± 0.368 $\chi^2/\text{NDF}: 7942.3/33$

Out: -3.937 ± 0.359 $\chi^2/\text{NDF}: 3231.2/36$

All: -3.948 ± 0.257 $\chi^2/\text{NDF}: 11173.5/70$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2/NDF : 673450.6/16

Left Out: 1624.968 $\pm$ 0.314 χ^2/NDF : 145337.5/17

Right Out: 1535.967 $\pm$ 0.430 χ^2/NDF : 882098.2/18

Left In: 1630.066 $\pm$ 0.319 χ^2/NDF : 204964.5/16

Left: 1627.477 $\pm$ 0.224 χ^2/NDF : 350431.4/34

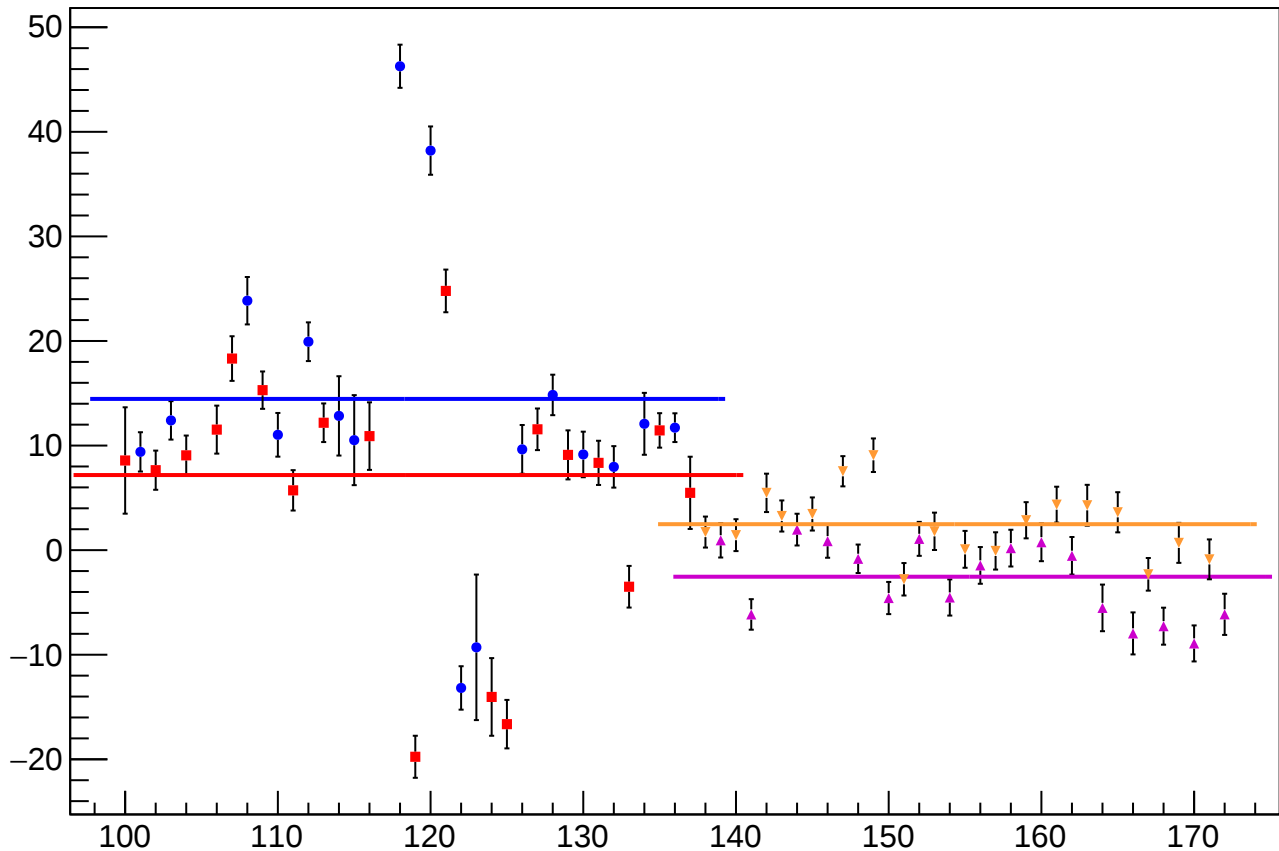
Right: 1550.918 $\pm$ 0.311 χ^2/NDF : 1558082.7/35

In: 1609.103 $\pm$ 0.261 χ^2/NDF : 891318.4/33

Out: 1593.987 $\pm$ 0.254 χ^2/NDF : 1055341.9/36

All: 1601.347 $\pm$ 0.182 χ^2/NDF : 1948387.6/70

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 $\pm$ 0.523 χ^2 /NDF: 595.9/16

Left Out: 2.482 $\pm$ 0.394 χ^2 /NDF: 64.6/17

Right Out: 7.181 $\pm$ 0.494 χ^2 /NDF: 495.7/18

Left In: -2.541 $\pm$ 0.409 χ^2 /NDF: 74.2/16

Left: 0.064 $\pm$ 0.284 χ^2 /NDF: 217.0/34

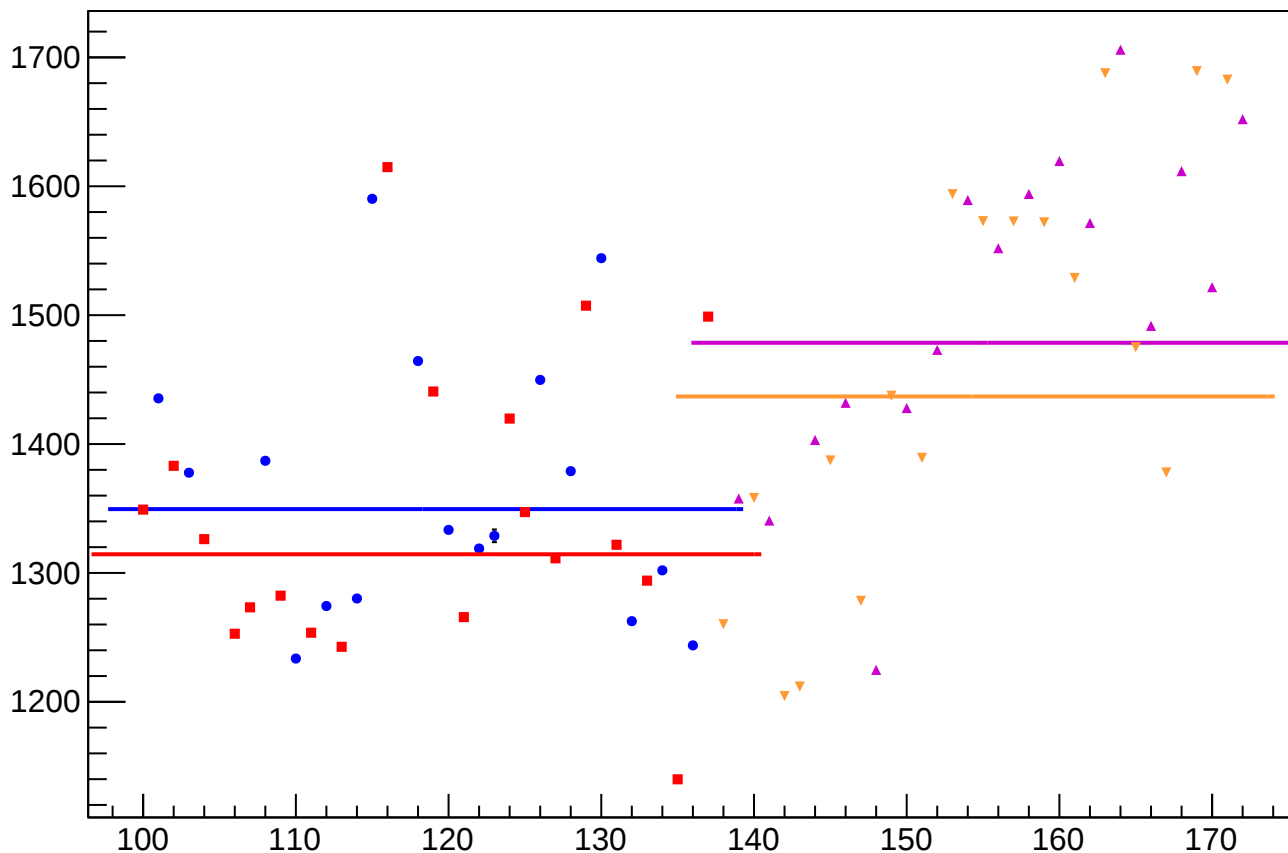
Right: 10.615 $\pm$ 0.359 χ^2 /NDF: 1193.9/35

In: 3.913 $\pm$ 0.322 χ^2 /NDF: 1325.3/33

Out: 4.309 $\pm$ 0.308 χ^2 /NDF: 615.5/36

All: 4.120 $\pm$ 0.223 χ^2 /NDF: 1941.6/70

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2/NDF : 64667.6/16

Left Out: 1436.915 $\pm$ 0.279 χ^2/NDF : 301079.2/17

Right Out: 1314.485 $\pm$ 0.350 χ^2/NDF : 80952.7/18

Left In: 1478.572 $\pm$ 0.289 χ^2/NDF : 193736.2/16

Left: 1456.966 $\pm$ 0.201 χ^2/NDF : 505560.3/34

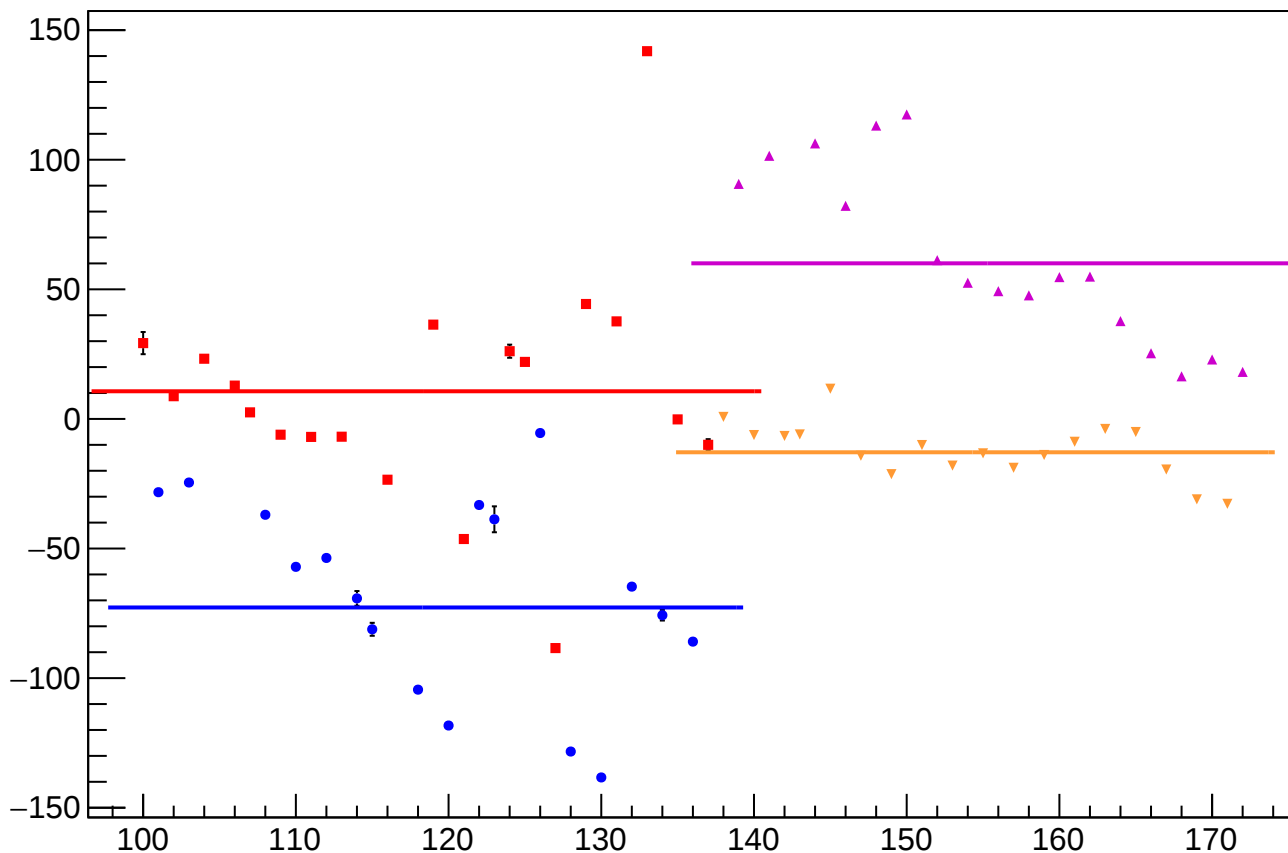
Right: 1331.011 $\pm$ 0.254 χ^2/NDF : 150358.7/35

In: 1429.580 $\pm$ 0.228 χ^2/NDF : 333886.3/33

Out: 1389.314 $\pm$ 0.218 χ^2/NDF : 457002.9/36

All: 1408.546 $\pm$ 0.158 χ^2/NDF : 807188.0/70

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 +/- 0.362 χ^2/NDF : 11690.4/16

Left Out: -12.865 +/- 0.251 χ^2/NDF : 1888.7/17

Right Out: 10.671 +/- 0.352 χ^2/NDF : 18171.0/18

Left In: 60.031 +/- 0.255 χ^2/NDF : 16594.9/16

Left: 22.918 +/- 0.179 χ^2/NDF : 59969.5/34

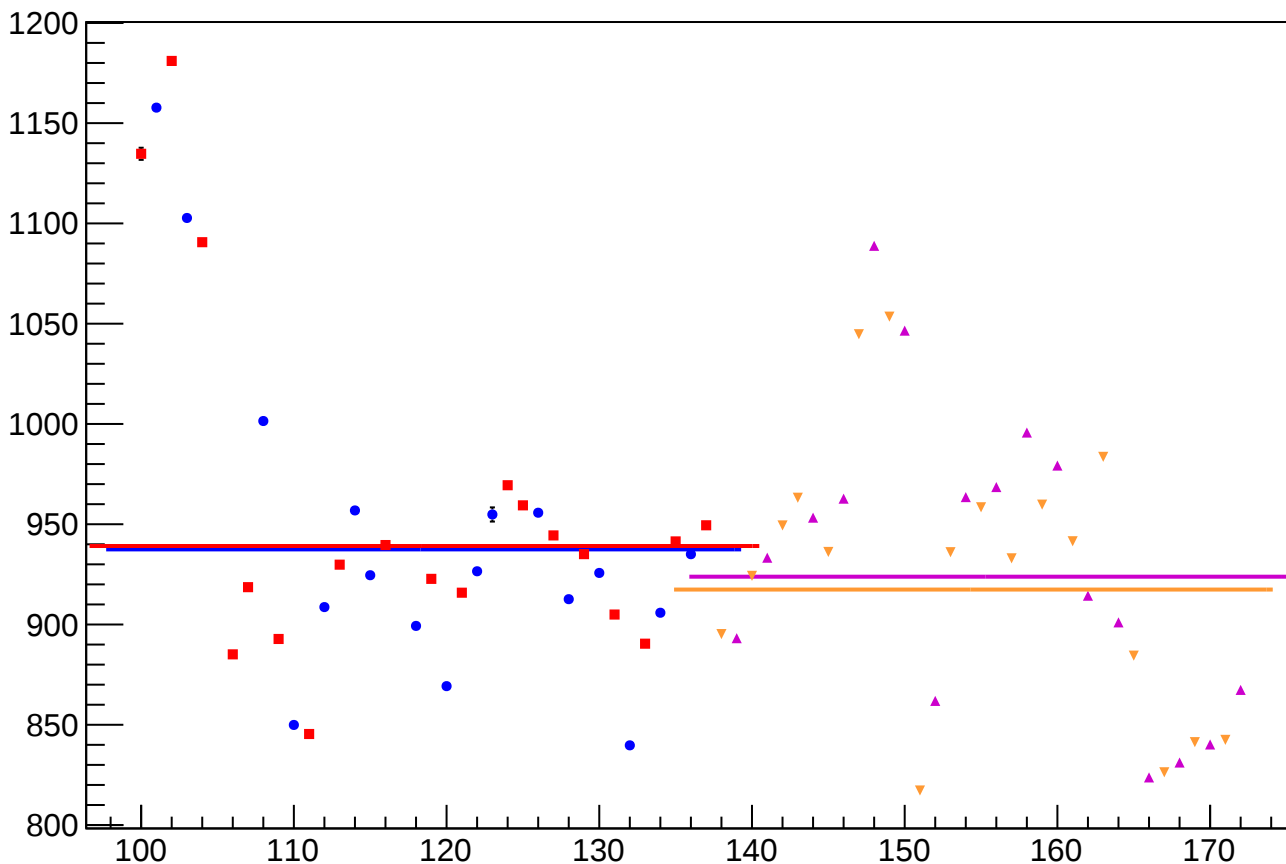
Right: -29.865 +/- 0.253 χ^2/NDF : 57099.2/35

In: 15.971 +/- 0.209 χ^2/NDF : 117991.2/33

Out: -4.952 +/- 0.204 χ^2/NDF : 23021.8/36

All: 5.284 +/- 0.146 χ^2/NDF : 146144.6/70

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 $\pm$ 0.256 χ^2/NDF : 98307.6/16

Left Out: 917.428 $\pm$ 0.177 χ^2/NDF : 140679.7/17

Right Out: 939.140 $\pm$ 0.249 χ^2/NDF : 90253.2/18

Left In: 923.845 $\pm$ 0.181 χ^2/NDF : 154960.8/16

Left: 920.578 $\pm$ 0.127 χ^2/NDF : 296283.5/34

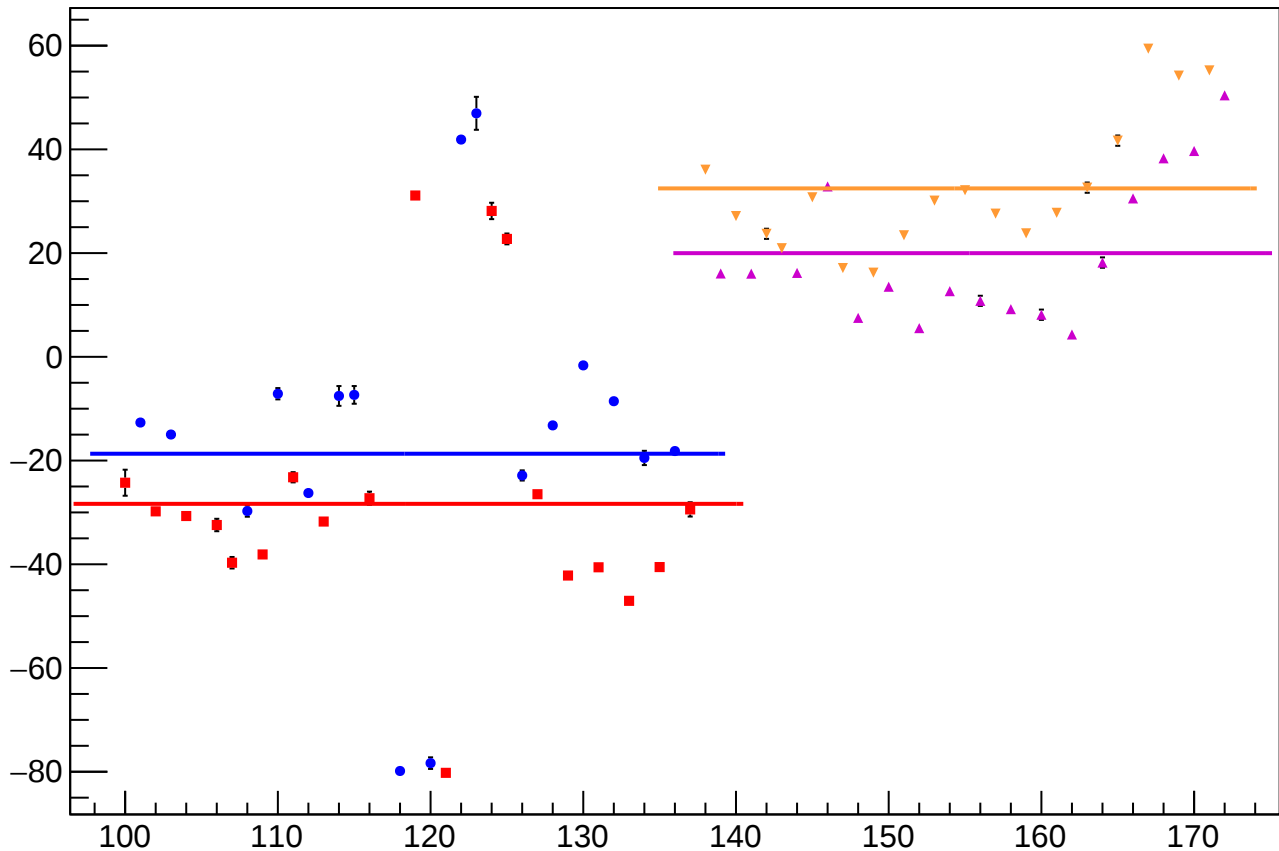
Right: 938.320 $\pm$ 0.179 χ^2/NDF : 188583.1/35

In: 928.361 $\pm$ 0.148 χ^2/NDF : 255153.2/33

Out: 924.728 $\pm$ 0.144 χ^2/NDF : 235974.4/36

All: 926.505 $\pm$ 0.103 χ^2/NDF : 491437.1/70

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 32.474 ± 0.196 $\chi^2/\text{NDF}: 4410.9/17$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 19.987 ± 0.201 $\chi^2/\text{NDF}: 4398.7/16$

Left: 26.381 ± 0.140 $\chi^2/\text{NDF}: 10795.4/34$

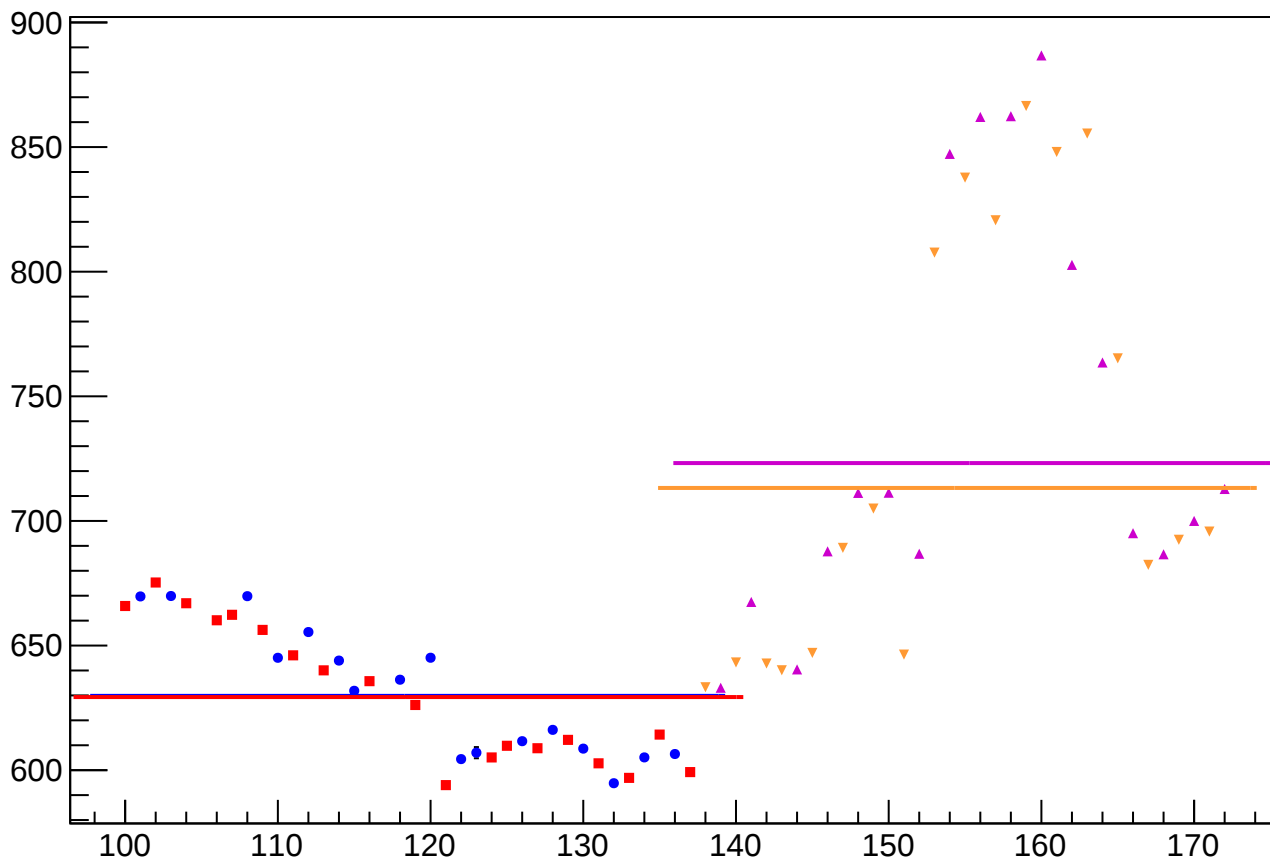
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: 4.297 ± 0.155 $\chi^2/\text{NDF}: 32496.0/33$

Out: 7.617 ± 0.151 $\chi^2/\text{NDF}: 56372.7/36$

All: 6.001 ± 0.108 $\chi^2/\text{NDF}: 89105.4/70$

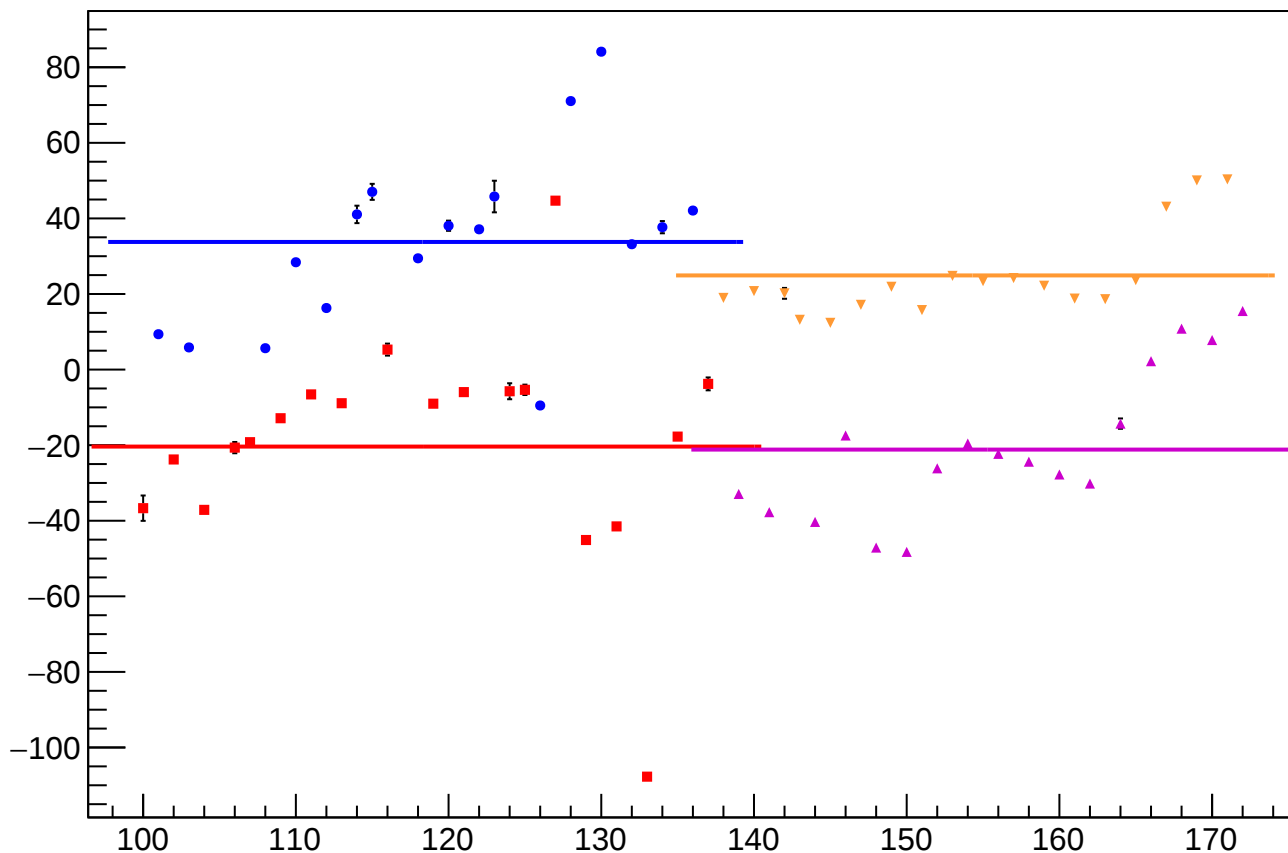
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815 $\pm$ 0.172 χ^2/NDF : 23298.3/16
 Left Out: 713.237 $\pm$ 0.138 χ^2/NDF : 332186.1/17
 Right Out: 629.340 $\pm$ 0.166 χ^2/NDF : 25538.5/18
 Left In: 723.216 $\pm$ 0.142 χ^2/NDF : 277866.9/16

Left: 718.106 $\pm$ 0.099 χ^2/NDF : 612589.2/34
 Right: 629.570 $\pm$ 0.119 χ^2/NDF : 48840.7/35
 In: 685.318 $\pm$ 0.109 χ^2/NDF : 477243.2/33
 Out: 678.948 $\pm$ 0.106 χ^2/NDF : 507866.9/36
 All: 682.048 $\pm$ 0.076 χ^2/NDF : 986853.5/70

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2 /NDF: 6487.9/16

Left Out: 24.916+/-0.279 χ^2 /NDF:1751.7/17

Right Out: -20.375+/-0.293 χ^2 /NDF: 11287.7/18

Left In: -21.173+/-0.283 χ^2 /NDF:4722.4/16

Left: 2.197+/-0.198 χ^2 /NDF: 19954.2/34

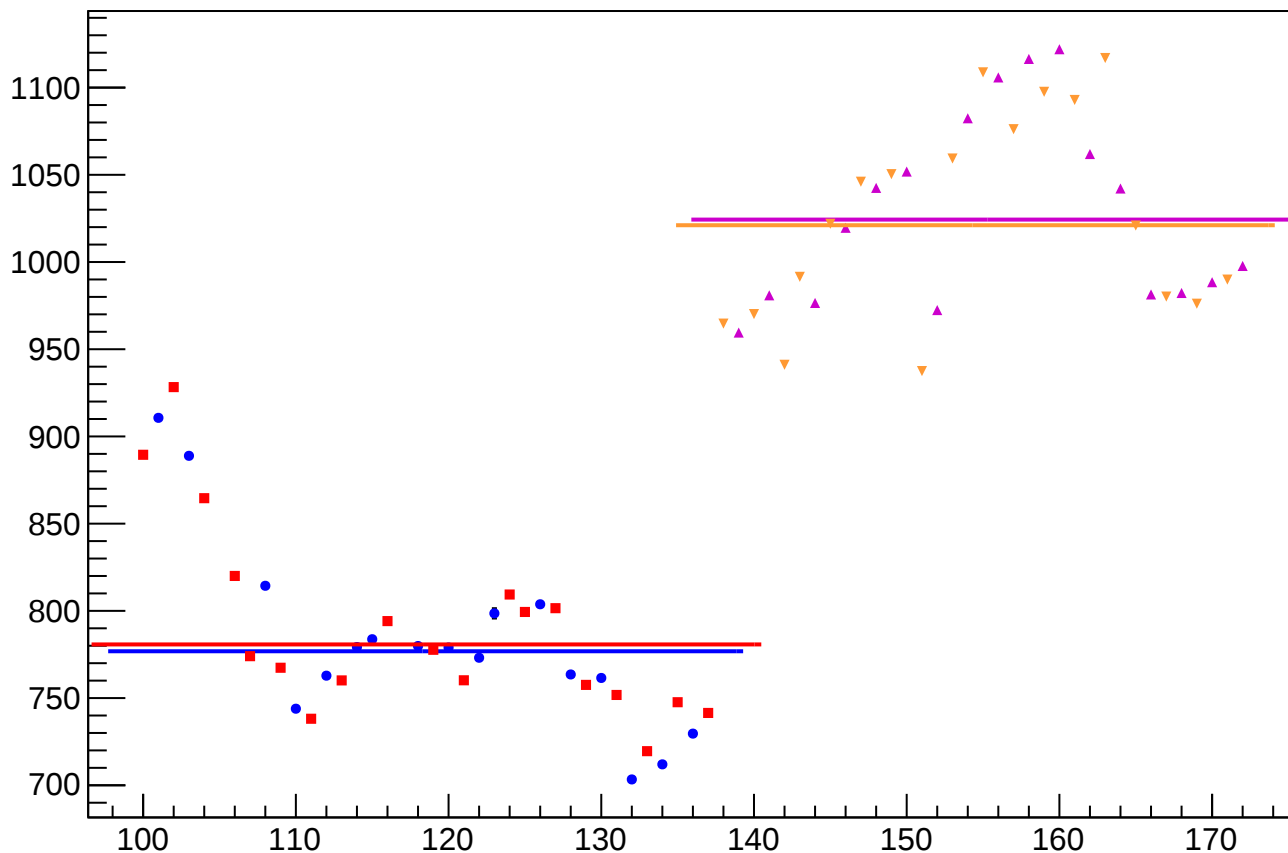
Right: 6.025+/-0.209 χ^2 /NDF: 34481.3/35

In: 4.676+/-0.206 χ^2 /NDF:28986.3/33

Out: 3.365+/-0.202 χ^2 /NDF:25604.6/36

All: 4.008+/-0.144 χ^2 /NDF: 54611.6/70

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1021.093 $\pm$ 0.197 χ^2 /NDF: 81316.0/17

Right Out: 780.755 $\pm$ 0.207 χ^2 /NDF: 57428.9/18

Left In: 1024.325 $\pm$ 0.200 χ^2 /NDF: 67150.5/16

Left: 1022.686 $\pm$ 0.140 χ^2 /NDF: 148599.1/34

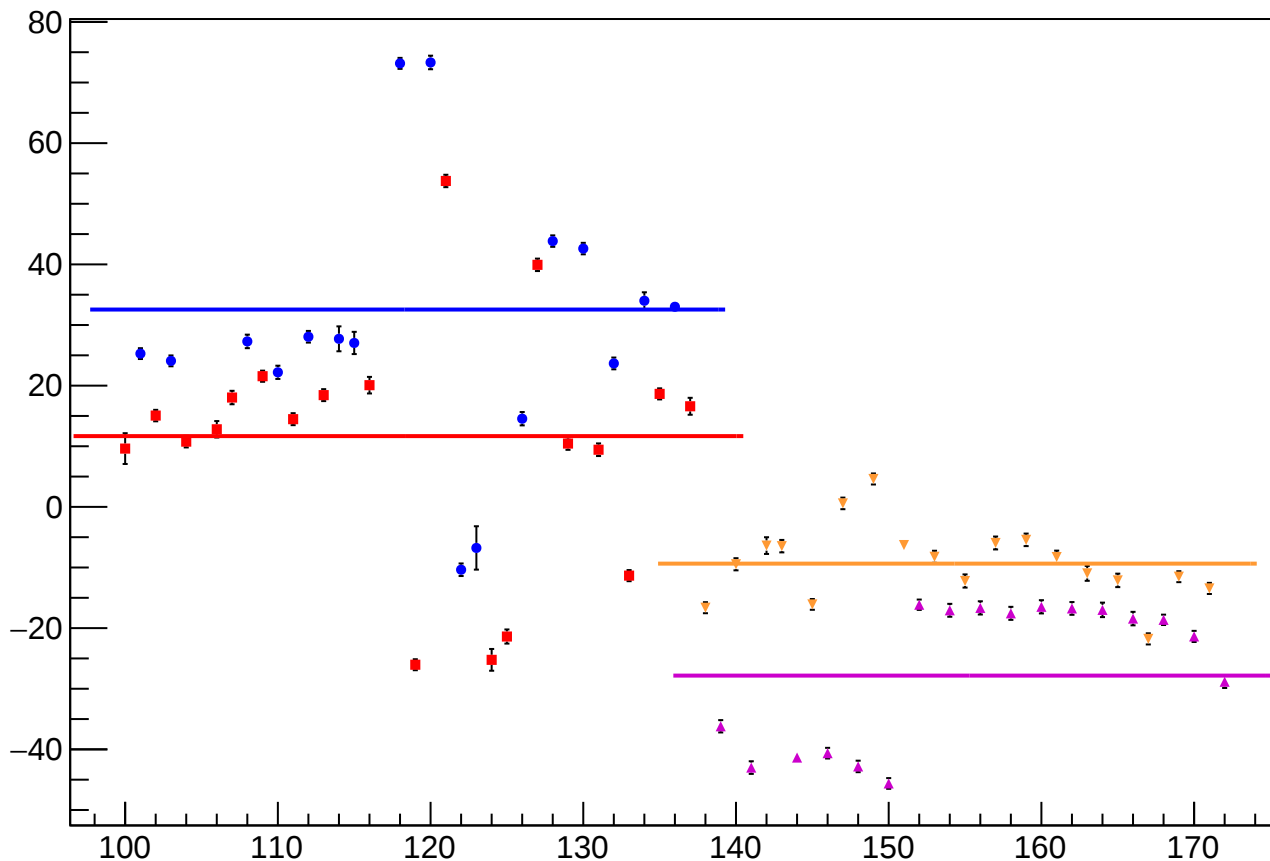
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 907.895 $\pm$ 0.145 χ^2 /NDF: 855916.2/33

Out: 906.733 $\pm$ 0.143 χ^2 /NDF: 846413.3/36

All: 907.303 $\pm$ 0.102 χ^2 /NDF: 1702362.0/70

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -9.362 ± 0.233 χ^2/NDF : 740.5/17

Right Out: 11.674 ± 0.247 χ^2/NDF : 6357.6/18

Left In: -27.832 ± 0.237 χ^2/NDF : 2437.8/16

Left: -18.438 ± 0.166 χ^2/NDF : 6254.9/34

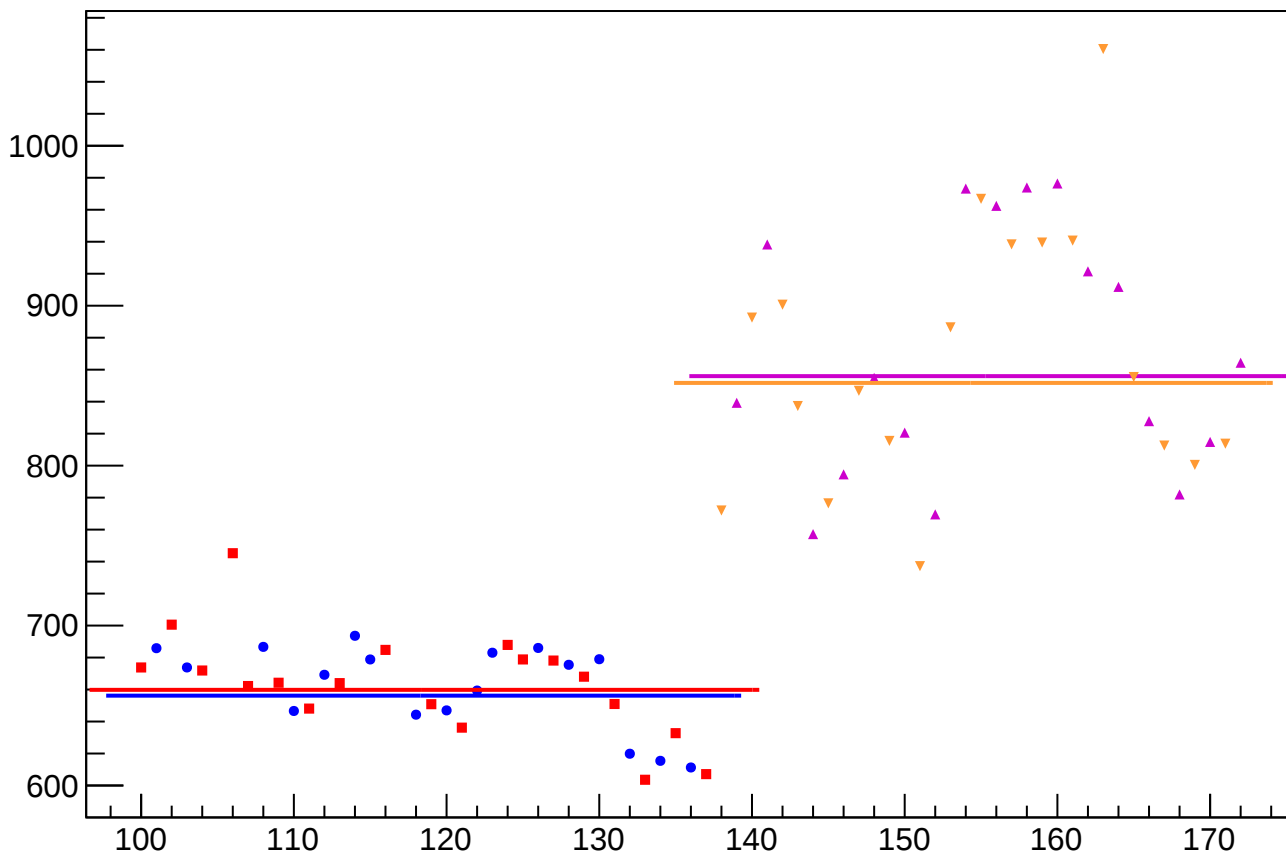
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: 0.467 ± 0.173 χ^2/NDF : 38812.0/33

Out: 0.563 ± 0.170 χ^2/NDF : 10929.4/36

All: 0.516 ± 0.121 χ^2/NDF : 49741.6/70

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 ± 0.179 χ^2/NDF : 23569.6/16

Left Out: 851.724 ± 0.165 χ^2/NDF : 216059.4/17

Right Out: 659.813 ± 0.175 χ^2/NDF : 28325.7/18

Left In: 855.960 ± 0.168 χ^2/NDF : 199220.8/16

Left: 853.806 ± 0.118 χ^2/NDF : 415603.8/34

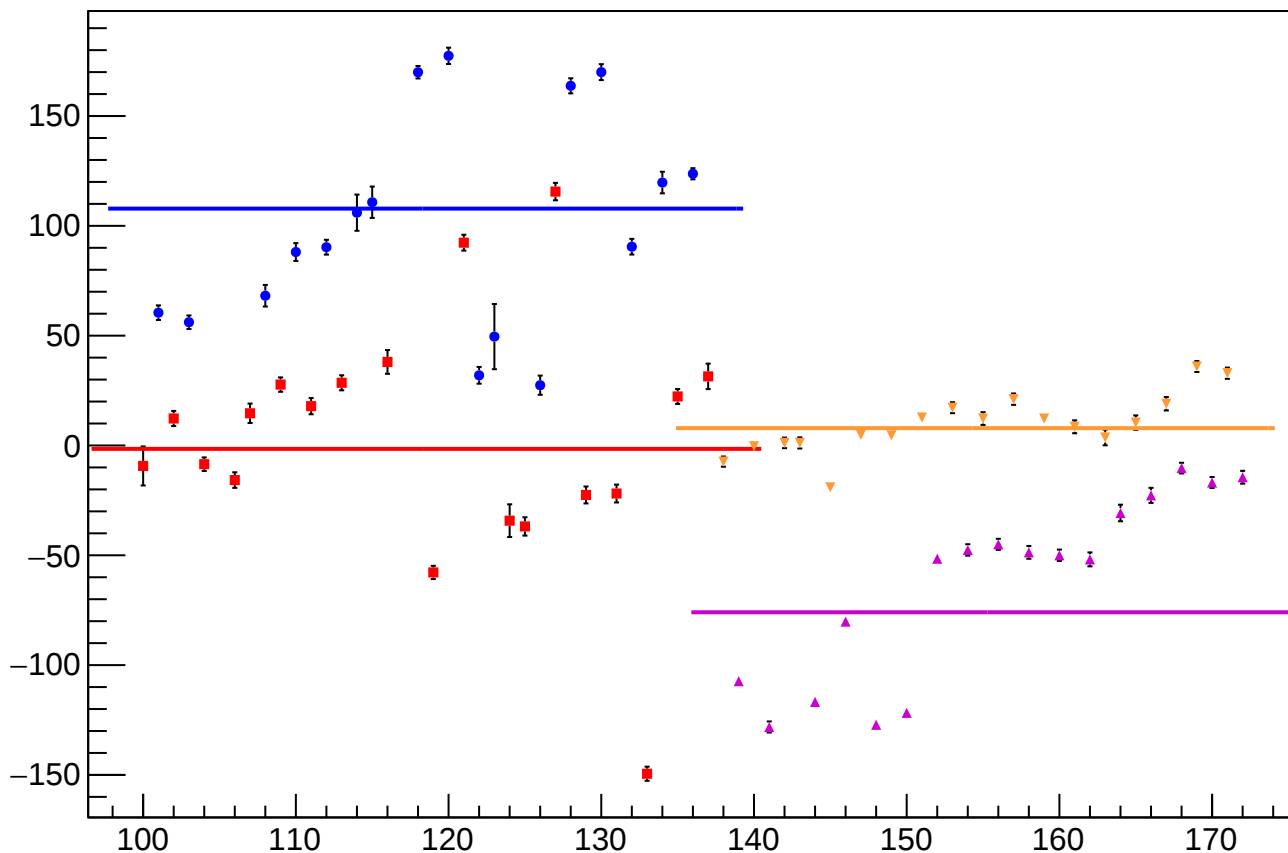
Right: 658.039 ± 0.125 χ^2/NDF : 52106.5/35

In: 762.336 ± 0.122 χ^2/NDF : 886151.7/33

Out: 761.184 ± 0.120 χ^2/NDF : 882181.8/36

All: 761.748 ± 0.086 χ^2/NDF : 1768378.7/70

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 7.891 ± 0.563 $\chi^2/\text{NDF}: 542.4/17$

Right Out: -1.542 ± 0.883 $\chi^2/\text{NDF}: 4523.8/18$

Left In: -75.947 ± 0.569 $\chi^2/\text{NDF}: 5339.1/16$

Left: -33.553 ± 0.400 $\chi^2/\text{NDF}: 16844.7/34$

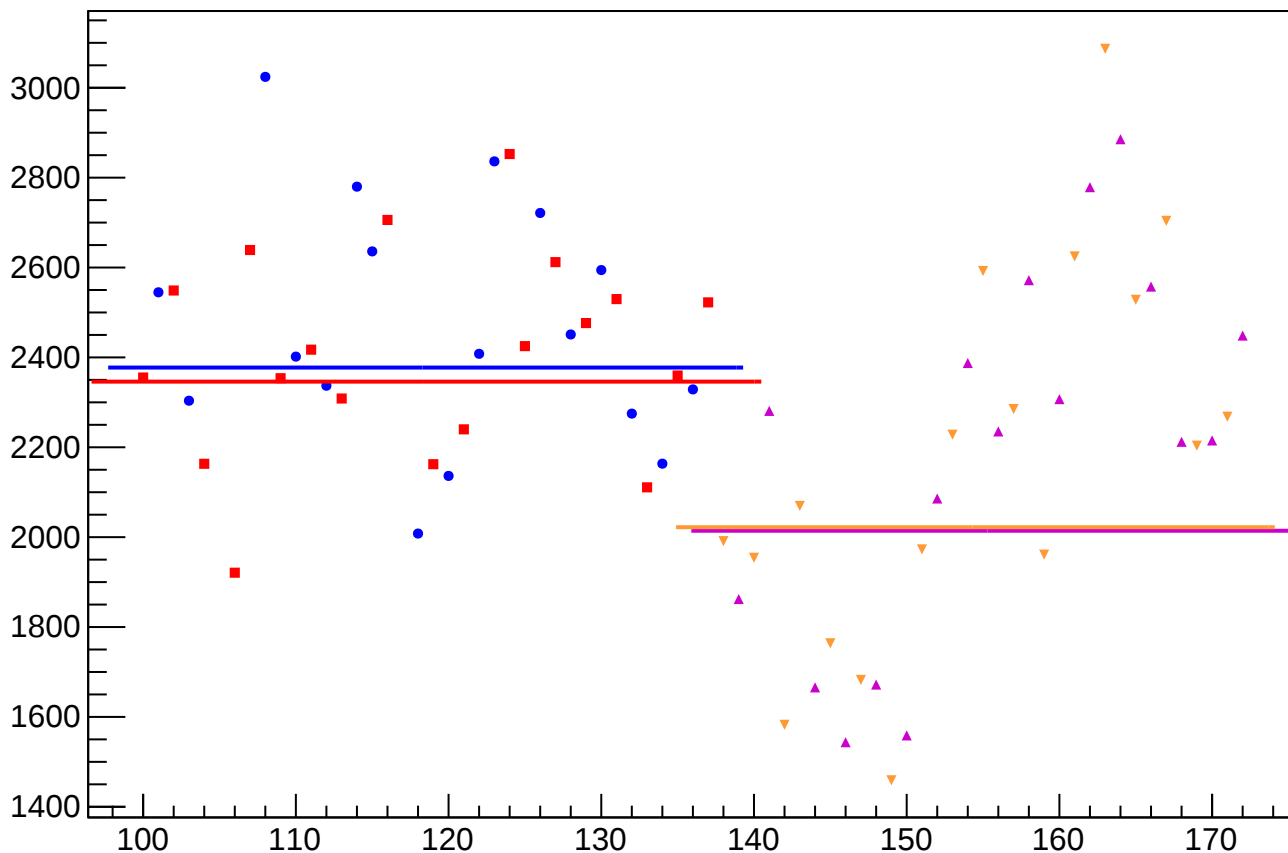
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -25.167 ± 0.484 $\chi^2/\text{NDF}: 36937.4/33$

Out: 5.166 ± 0.475 $\chi^2/\text{NDF}: 5147.2/36$

All: -9.695 ± 0.339 $\chi^2/\text{NDF}: 44084.8/70$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 2022.139+/-0.398 χ^2/NDF : 952626.9/17

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 2014.274+/-0.403 χ^2/NDF : 967344.2/16

Left: 2018.251+/-0.283 χ^2/NDF : 1920164.2/34

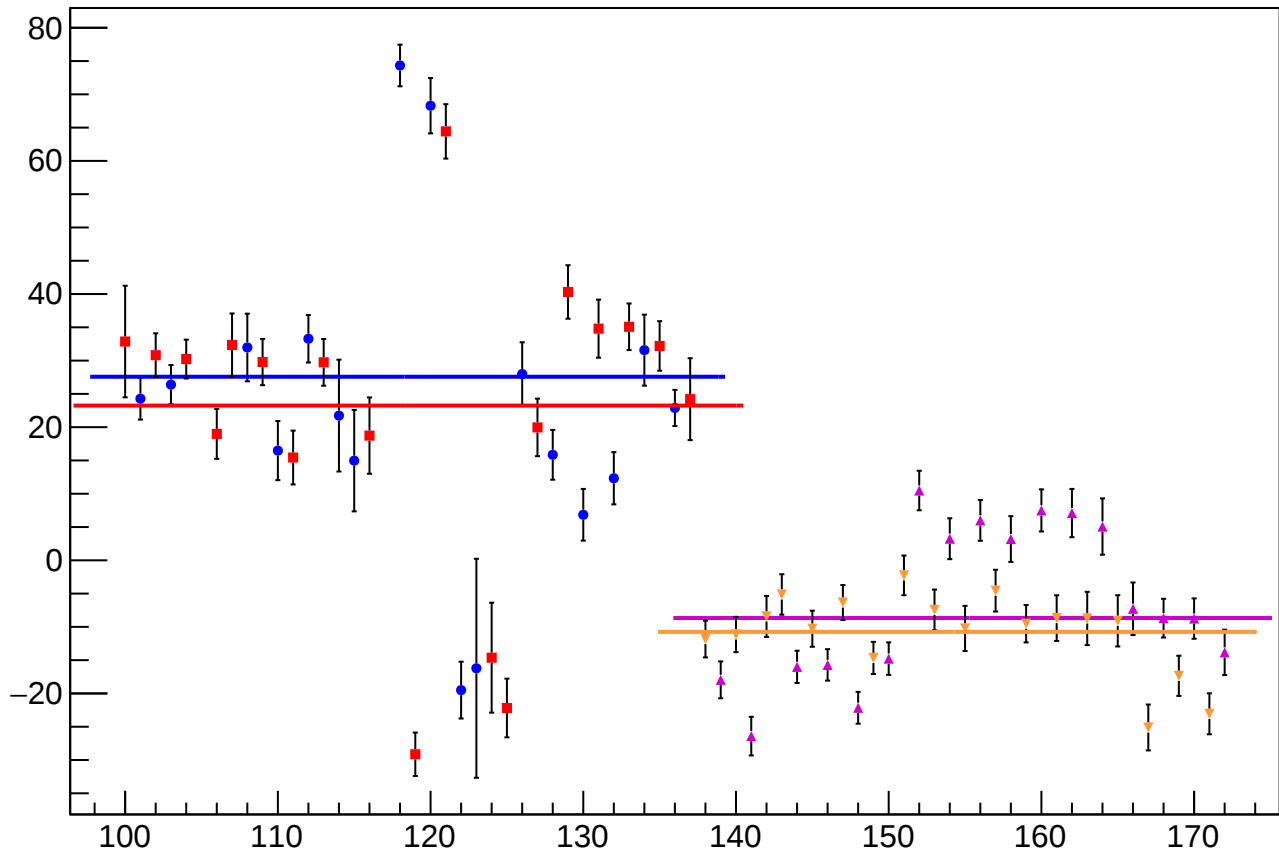
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2114.606+/-0.343 χ^2/NDF : 1311766.2/33

Out: 2115.727+/-0.336 χ^2/NDF : 1252219.7/36

All: 2115.177+/-0.240 χ^2/NDF : 2563991.3/70

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -10.748 ± 0.709 $\chi^2/\text{NDF}: 62.0/17$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.669 ± 0.714 $\chi^2/\text{NDF}: 254.0/16$

Left: -9.716 ± 0.503 $\chi^2/\text{NDF}: 320.3/34$

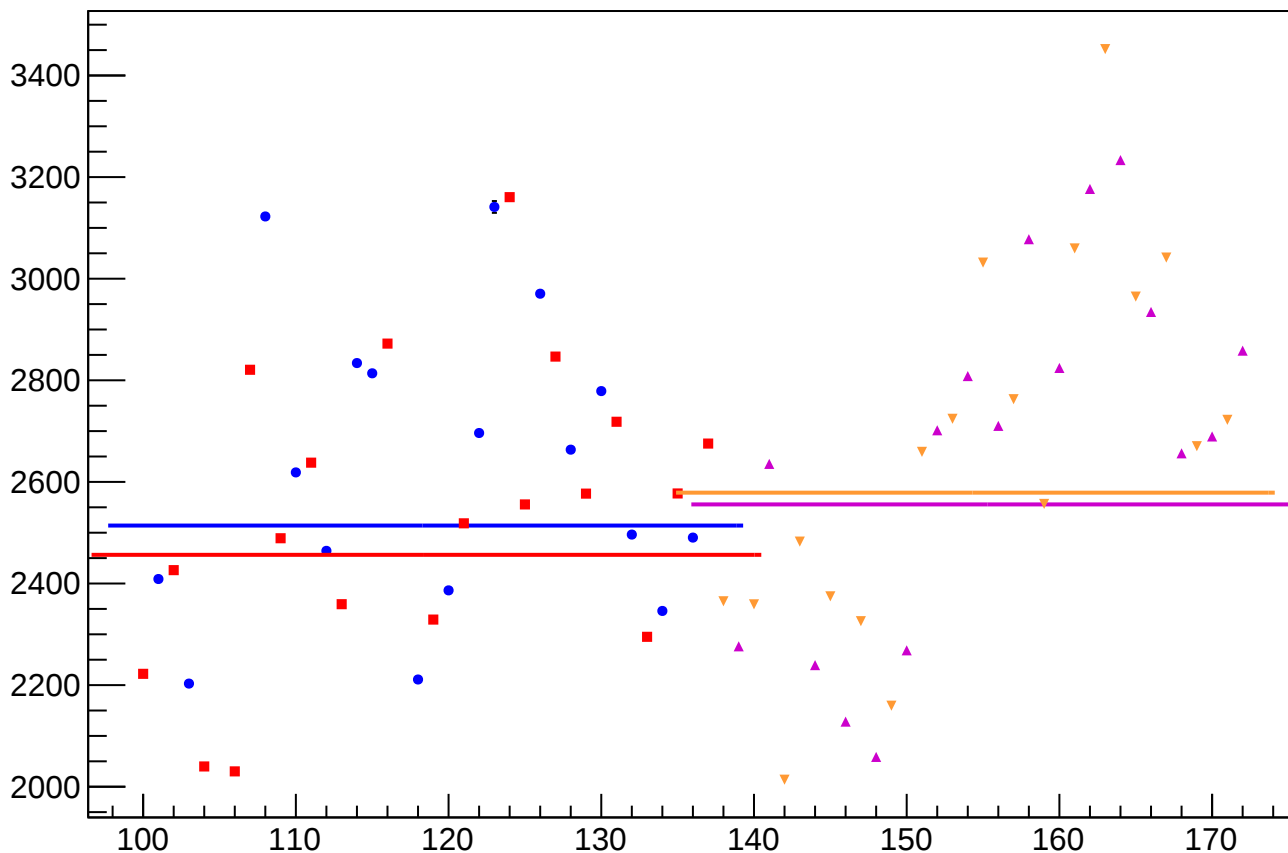
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 3.994 ± 0.576 $\chi^2/\text{NDF}: 1673.2/33$

Out: 1.805 ± 0.563 $\chi^2/\text{NDF}: 1467.8/36$

All: 2.875 ± 0.403 $\chi^2/\text{NDF}: 3148.4/70$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 $\pm$ 0.689 χ^2/NDF : 120961.3/16

Left Out: 2578.838 $\pm$ 0.502 χ^2/NDF : 430745.7/17

Right Out: 2456.460 $\pm$ 0.655 χ^2/NDF : 149732.7/18

Left In: 2555.705 $\pm$ 0.505 χ^2/NDF : 469904.8/16

Left: 2567.352 $\pm$ 0.356 χ^2/NDF : 901706.7/34

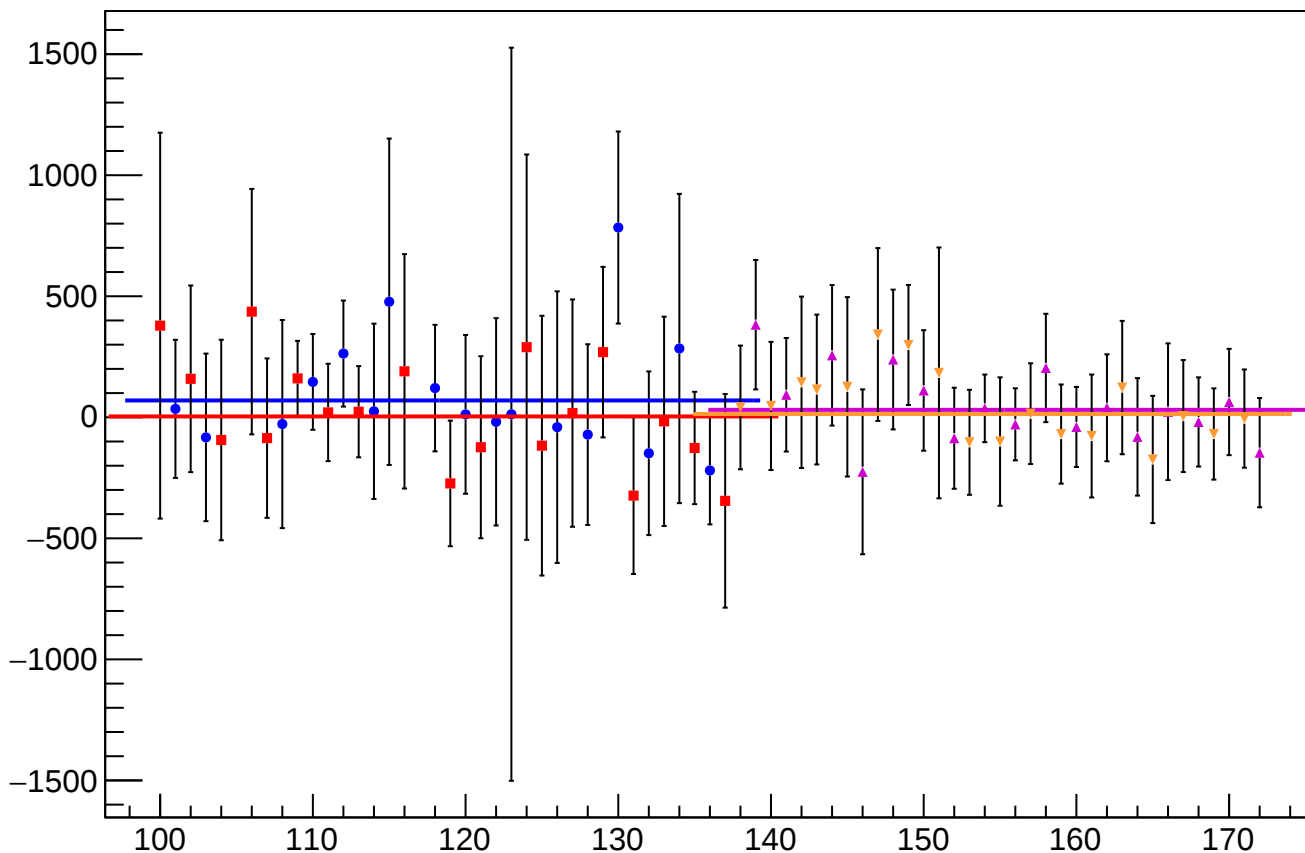
Right: 2483.827 $\pm$ 0.475 χ^2/NDF : 274364.7/35

In: 2541.166 $\pm$ 0.407 χ^2/NDF : 593238.0/33

Out: 2533.645 $\pm$ 0.398 χ^2/NDF : 602462.6/36

All: 2537.321 $\pm$ 0.285 χ^2/NDF : 1195874.8/70

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: 13.511 $\pm$ 59.781 χ^2 /NDF:4.3/17

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 30.805 $\pm$ 51.538 χ^2 /NDF:5.8/16

Left: 23.432 $\pm$ 39.035 χ^2 /NDF: 10.1/34

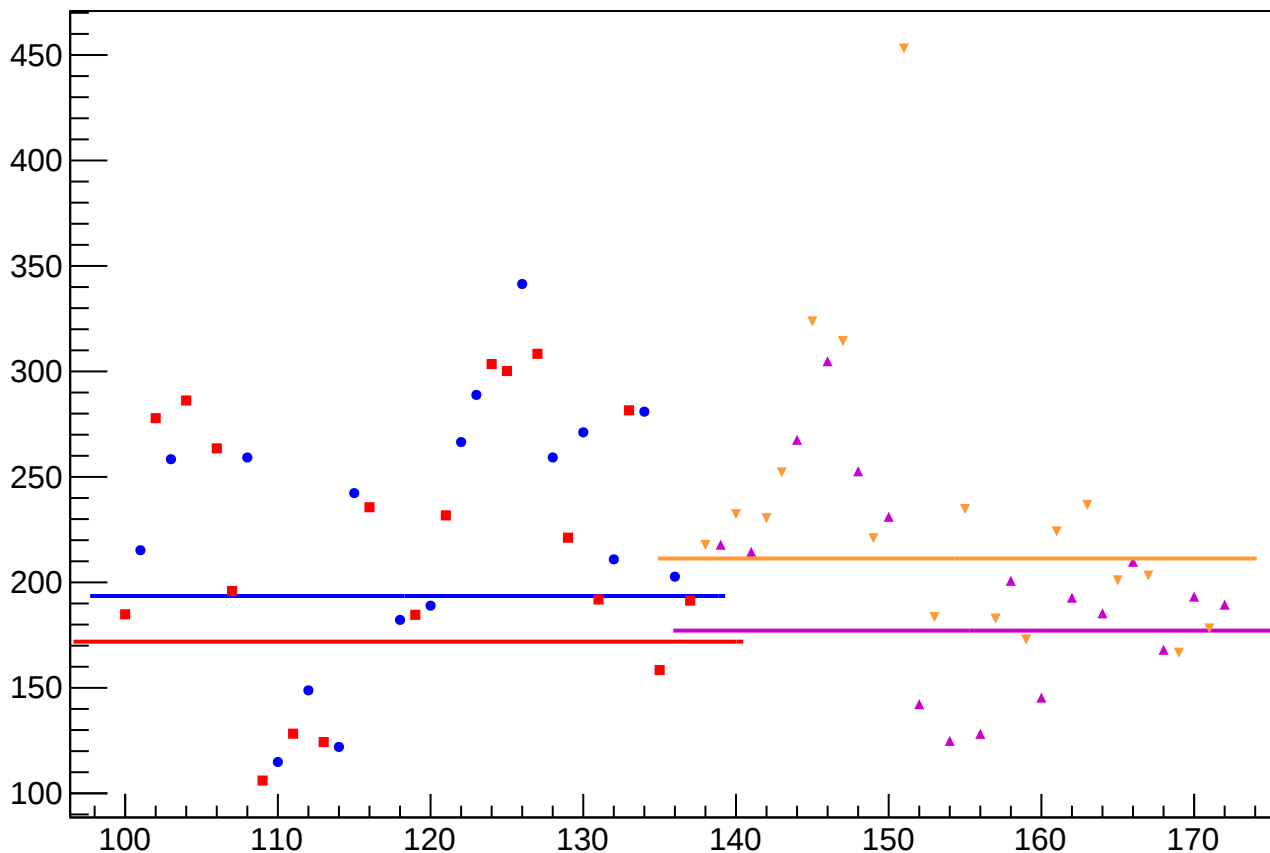
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 42.378 $\pm$ 43.169 χ^2 /NDF:13.3/33

Out: 9.313 $\pm$ 45.454 χ^2 /NDF:10.7/36

All: 26.698 $\pm$ 31.302 χ^2 /NDF: 24.2/70

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533 $\pm$ 0.056 χ^2 /NDF: 1010428.2/16

Left Out: 211.316 $\pm$ 0.042 χ^2 /NDF:1193632.2/17

Right Out: 171.901 $\pm$ 0.049 χ^2 /NDF: 1576883.7/18

Left In: 177.145 $\pm$ 0.036 χ^2 /NDF:1511703.1/16

Left: 191.714 $\pm$ 0.028 χ^2 /NDF: 3080189.9/34

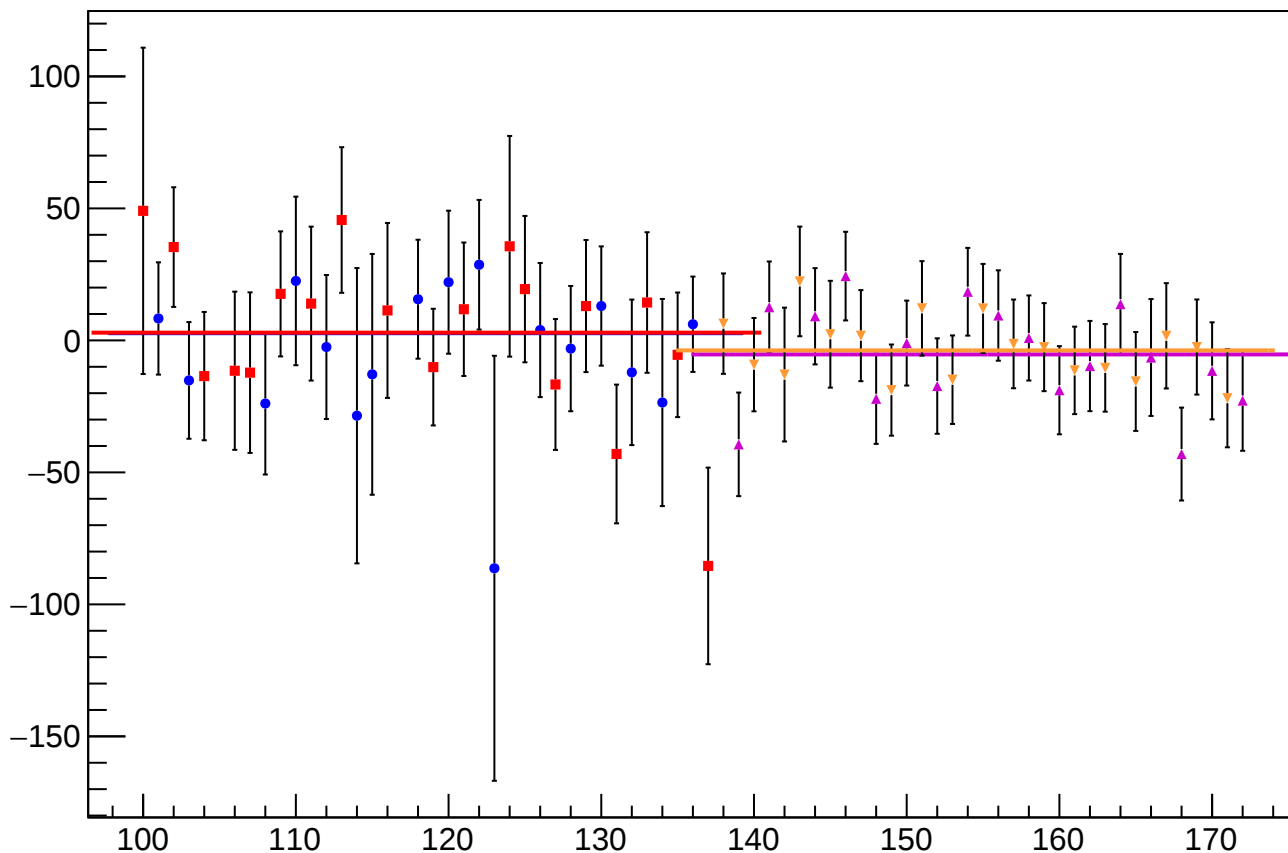
Right: 181.409 $\pm$ 0.037 χ^2 /NDF: 2671312.8/35

In: 182.035 $\pm$ 0.031 χ^2 /NDF:2582479.9/33

Out: 194.687 $\pm$ 0.032 χ^2 /NDF:3137313.6/36

All: 188.035 $\pm$ 0.022 χ^2 /NDF: 5801260.9/70

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 ± 6.424 $\chi^2/\text{NDF}: 6.8/16$

Left Out: -3.790 ± 4.266 $\chi^2/\text{NDF}: 7.0/17$

Right Out: 2.928 ± 6.279 $\chi^2/\text{NDF}: 17.8/18$

Left In: -5.312 ± 4.284 $\chi^2/\text{NDF}: 19.5/16$

Left: -4.548 ± 3.023 $\chi^2/\text{NDF}: 26.6/34$

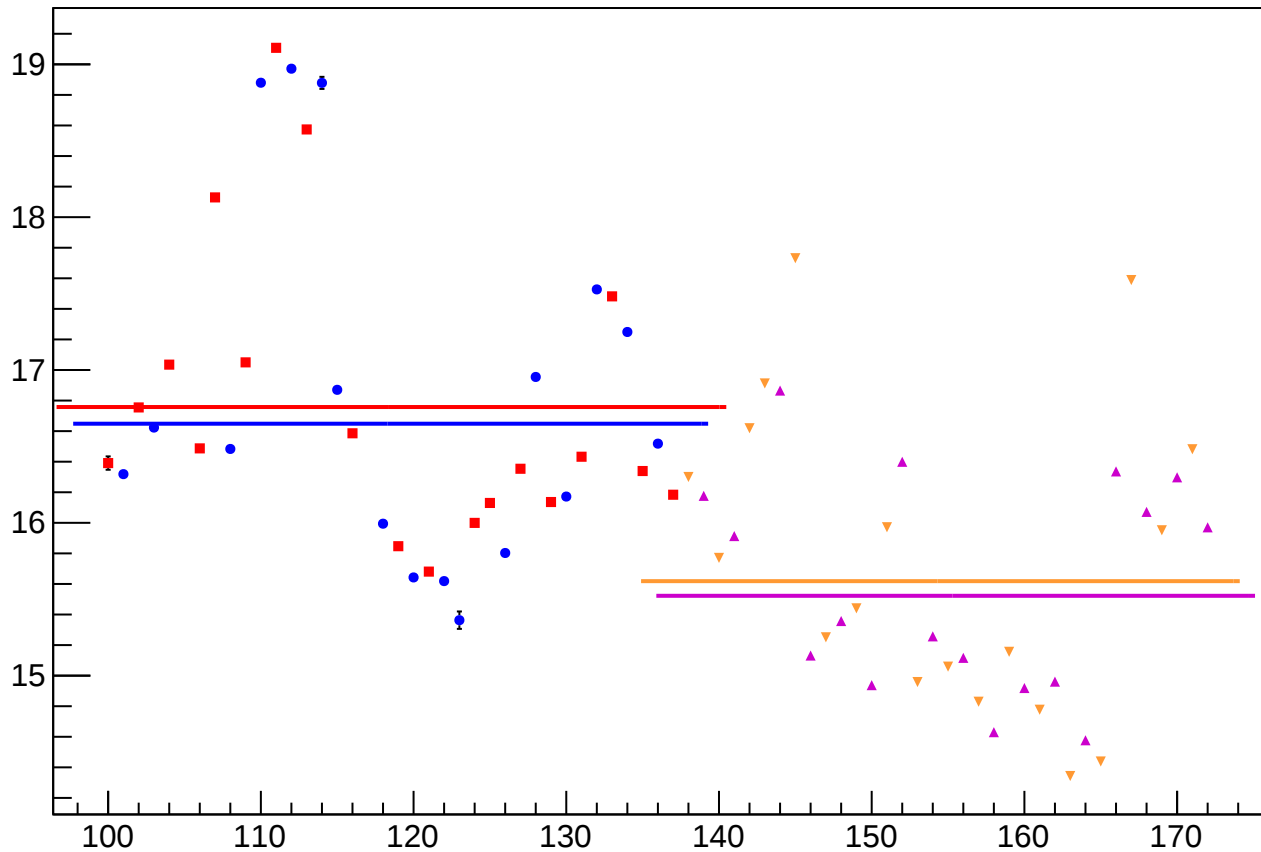
Right: 2.833 ± 4.490 $\chi^2/\text{NDF}: 24.5/35$

In: -2.835 ± 3.564 $\chi^2/\text{NDF}: 27.4/33$

Out: -1.668 ± 3.529 $\chi^2/\text{NDF}: 25.5/36$

All: -2.246 ± 2.508 $\chi^2/\text{NDF}: 53.0/70$

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: 15.618 $\pm$ 0.003 χ^2 /NDF: 97950.9/17

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.523 $\pm$ 0.003 χ^2 /NDF: 49495.0/16

Left: 15.571 $\pm$ 0.002 χ^2 /NDF: 147948.2/34

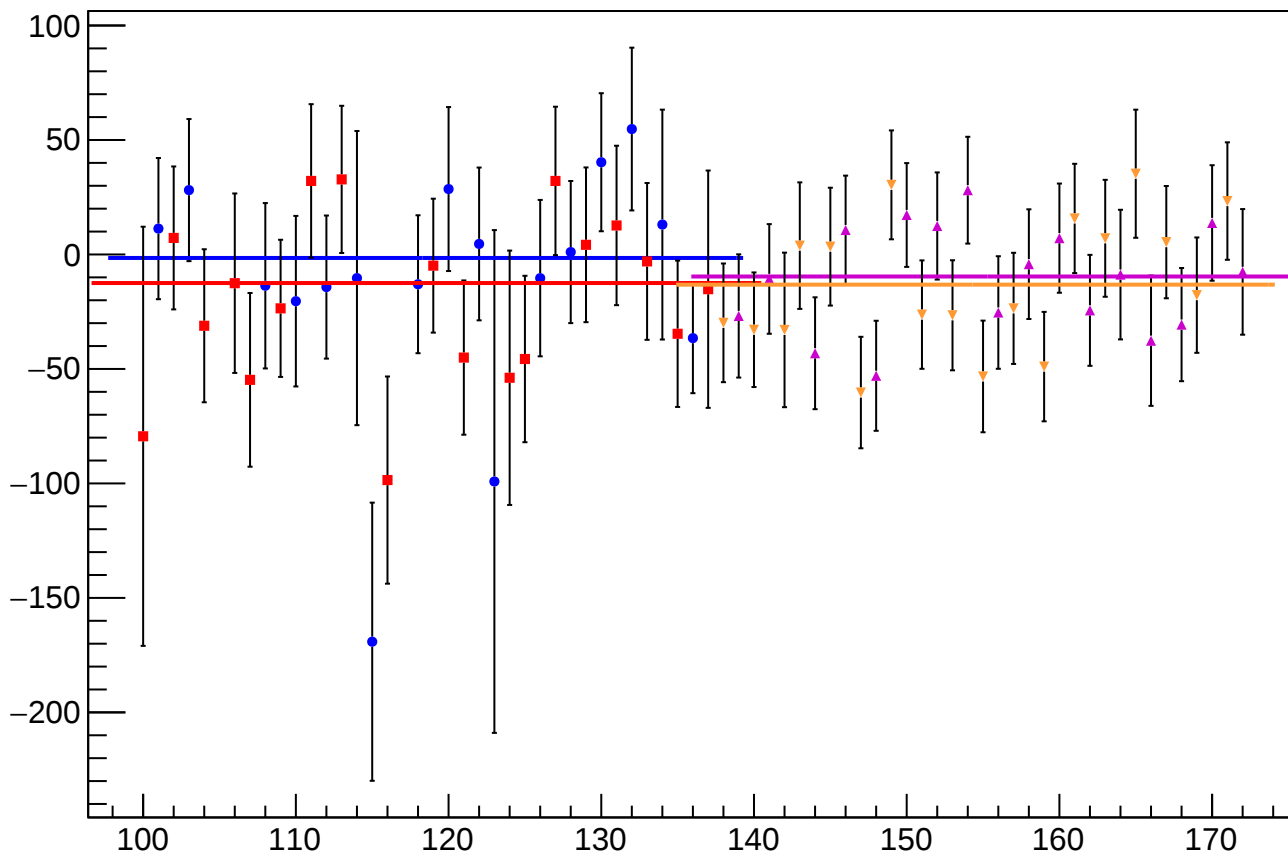
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.869 $\pm$ 0.003 χ^2 /NDF: 134591.0/33

Out: 15.978 $\pm$ 0.002 χ^2 /NDF: 182958.5/36

All: 15.924 $\pm$ 0.002 χ^2 /NDF: 318496.1/70

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: -13.186 ± 5.954 χ^2/NDF : 22.7/17

Right Out: -12.475 ± 8.210 χ^2/NDF : 15.6/18

Left In: -9.621 ± 5.998 χ^2/NDF : 15.1/16

Left: -11.416 ± 4.226 χ^2/NDF : 38.0/34

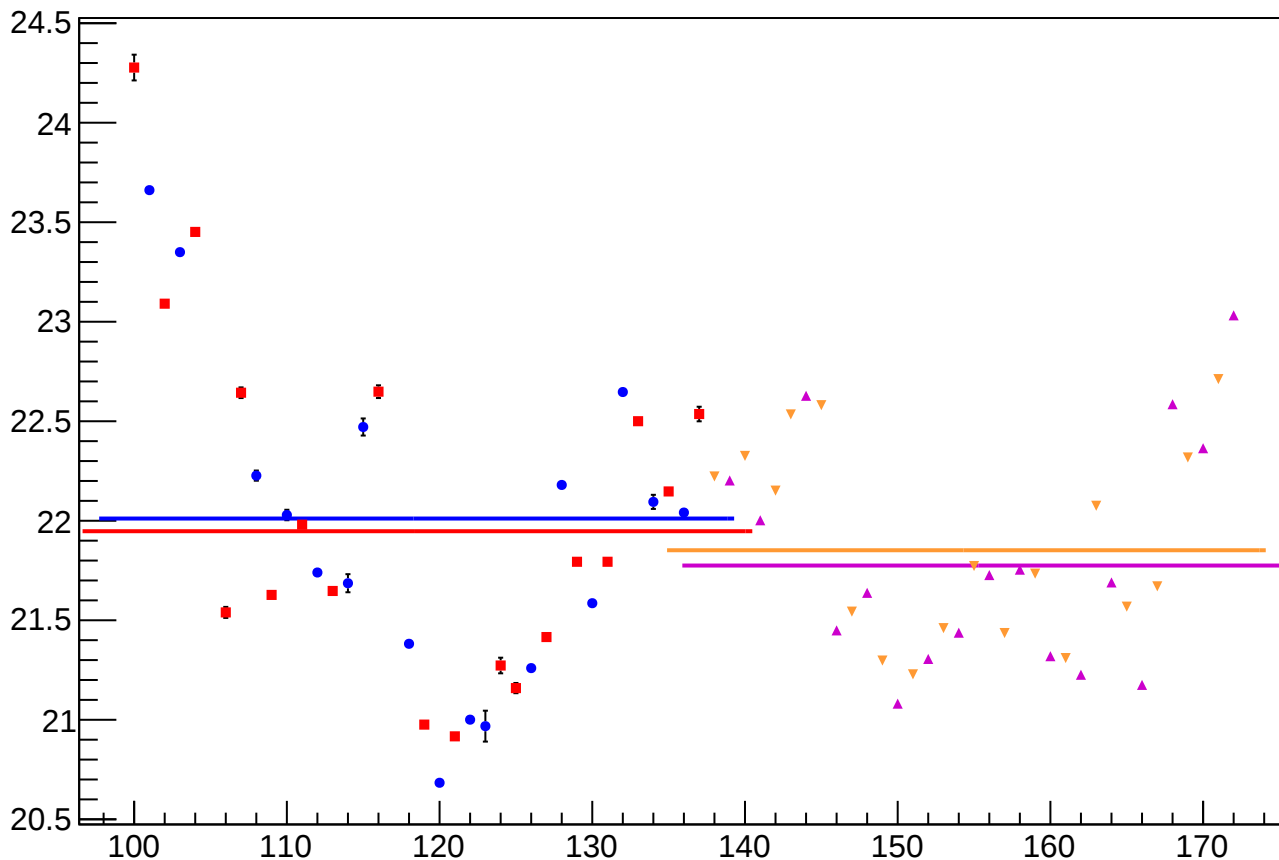
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -6.922 ± 4.898 χ^2/NDF : 33.3/33

Out: -12.941 ± 4.820 χ^2/NDF : 38.4/36

All: -9.980 ± 3.435 χ^2/NDF : 72.4/70

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: 21.852 $\pm$ 0.004 χ^2 /NDF:12519.2/17

Right Out: 21.947 $\pm$ 0.006 χ^2 /NDF: 16592.7/18

Left In: 21.775 $\pm$ 0.004 χ^2 /NDF:16773.7/16

Left: 21.814 $\pm$ 0.003 χ^2 /NDF: 29458.1/34

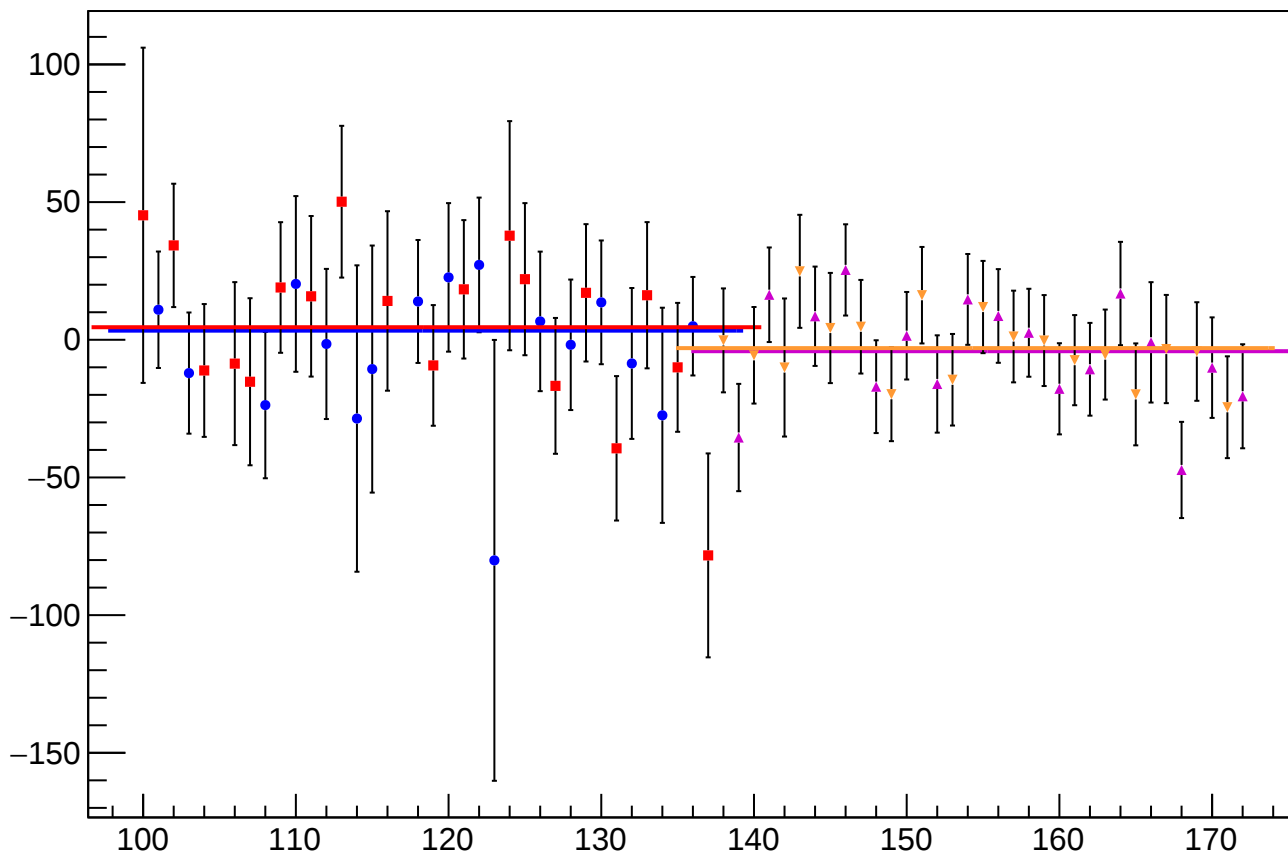
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.854 $\pm$ 0.003 χ^2 /NDF:35353.8/33

Out: 21.885 $\pm$ 0.003 χ^2 /NDF:29289.7/36

All: 21.870 $\pm$ 0.002 χ^2 /NDF: 64684.5/70

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: -3.029 ± 4.220 $\chi^2/\text{NDF}: 8.1/17$

Right Out: 4.561 ± 6.244 $\chi^2/\text{NDF}: 17.7/18$

Left In: -4.148 ± 4.239 $\chi^2/\text{NDF}: 19.9/16$

Left: -3.586 ± 2.991 $\chi^2/\text{NDF}: 28.1/34$

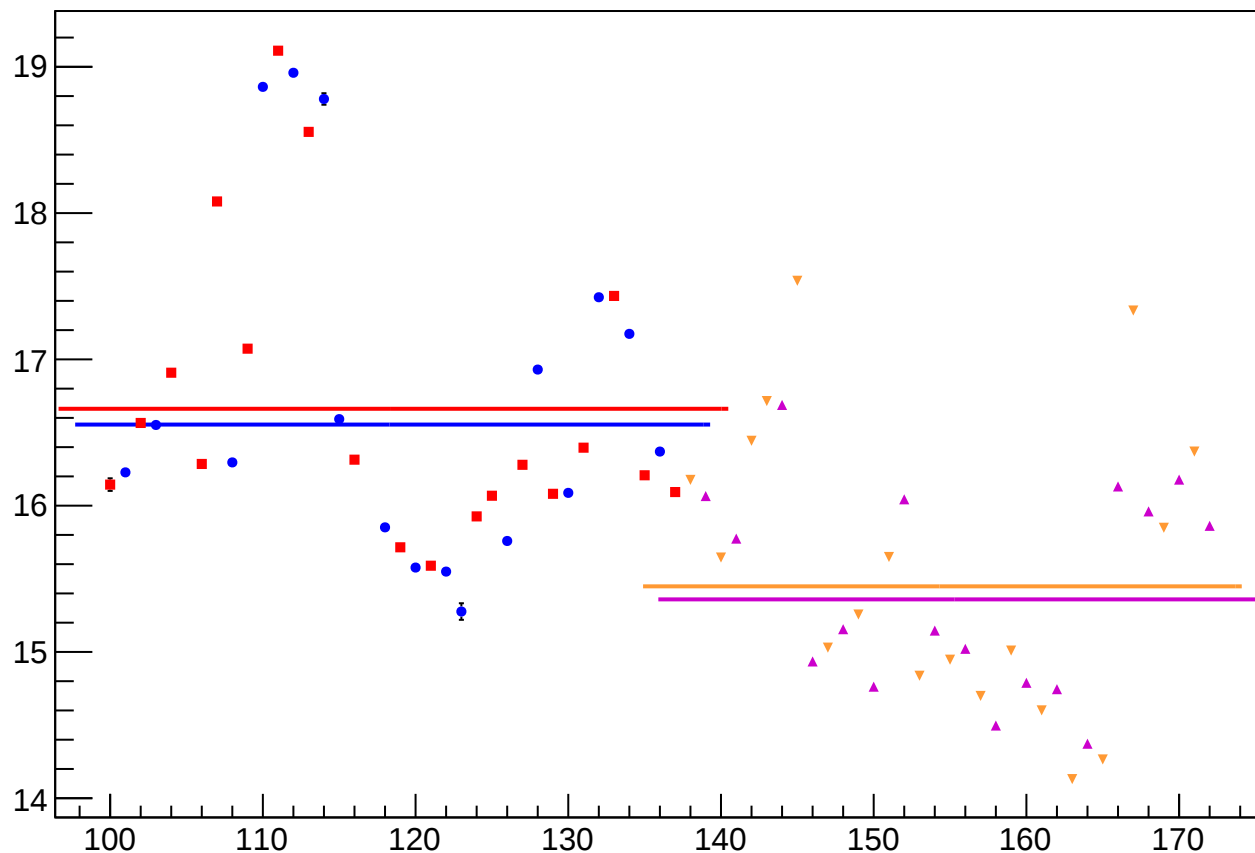
Right: 3.953 ± 4.465 $\chi^2/\text{NDF}: 24.0/35$

In: -1.866 ± 3.532 $\chi^2/\text{NDF}: 27.2/33$

Out: -0.649 ± 3.496 $\chi^2/\text{NDF}: 26.8/36$

All: -1.251 ± 2.485 $\chi^2/\text{NDF}: 54.1/70$

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: 15.448 $\pm$ 0.003 χ^2 /NDF: 98391.5/17

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.359 $\pm$ 0.003 χ^2 /NDF: 49898.0/16

Left: 15.404 $\pm$ 0.002 χ^2 /NDF: 148733.5/34

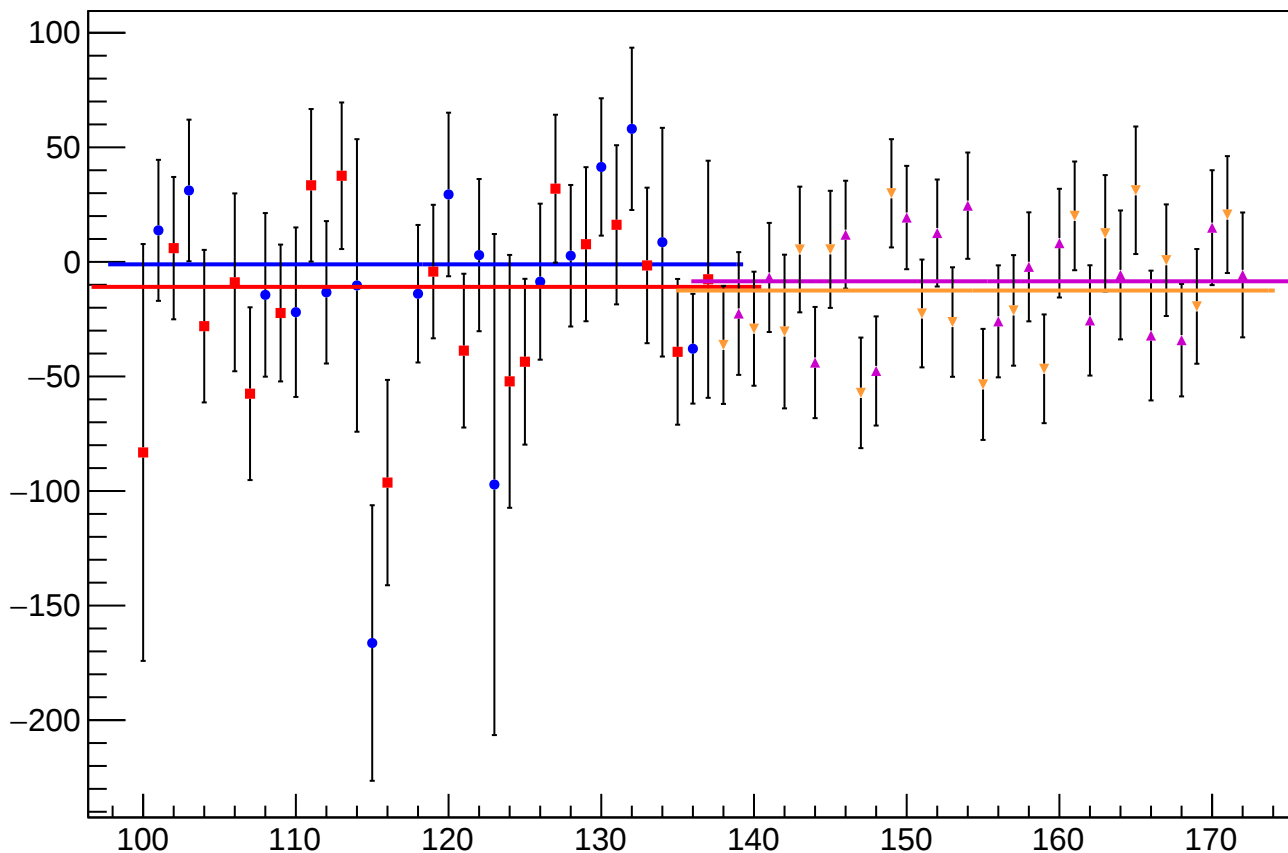
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.725 $\pm$ 0.002 χ^2 /NDF: 142972.0/33

Out: 15.829 $\pm$ 0.002 χ^2 /NDF: 193351.0/36

All: 15.777 $\pm$ 0.002 χ^2 /NDF: 337206.2/70

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: -12.500 ± 5.916 χ^2/NDF : 22.1/17

Right Out: -10.900 ± 8.169 χ^2/NDF : 16.2/18

Left In: -8.466 ± 5.962 χ^2/NDF : 14.5/16

Left: -10.499 ± 4.200 χ^2/NDF : 36.8/34

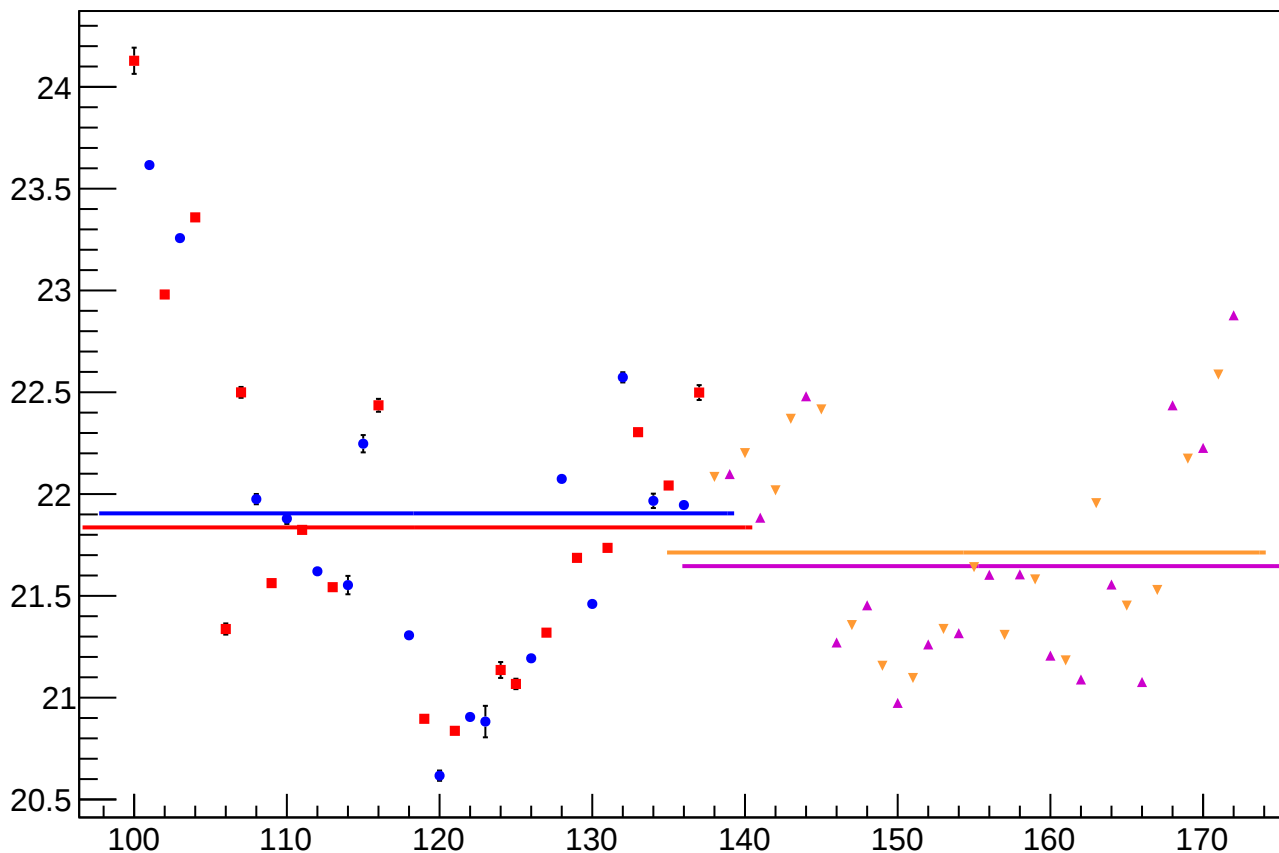
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -6.005 ± 4.871 χ^2/NDF : 33.5/33

Out: -11.949 ± 4.791 χ^2/NDF : 38.4/36

All: -9.026 ± 3.416 χ^2/NDF : 72.6/70

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: 21.713 $\pm$ 0.004 χ^2 /NDF:12561.4/17

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.646 $\pm$ 0.004 χ^2 /NDF:16319.1/16

Left: 21.680 $\pm$ 0.003 χ^2 /NDF: 29007.6/34

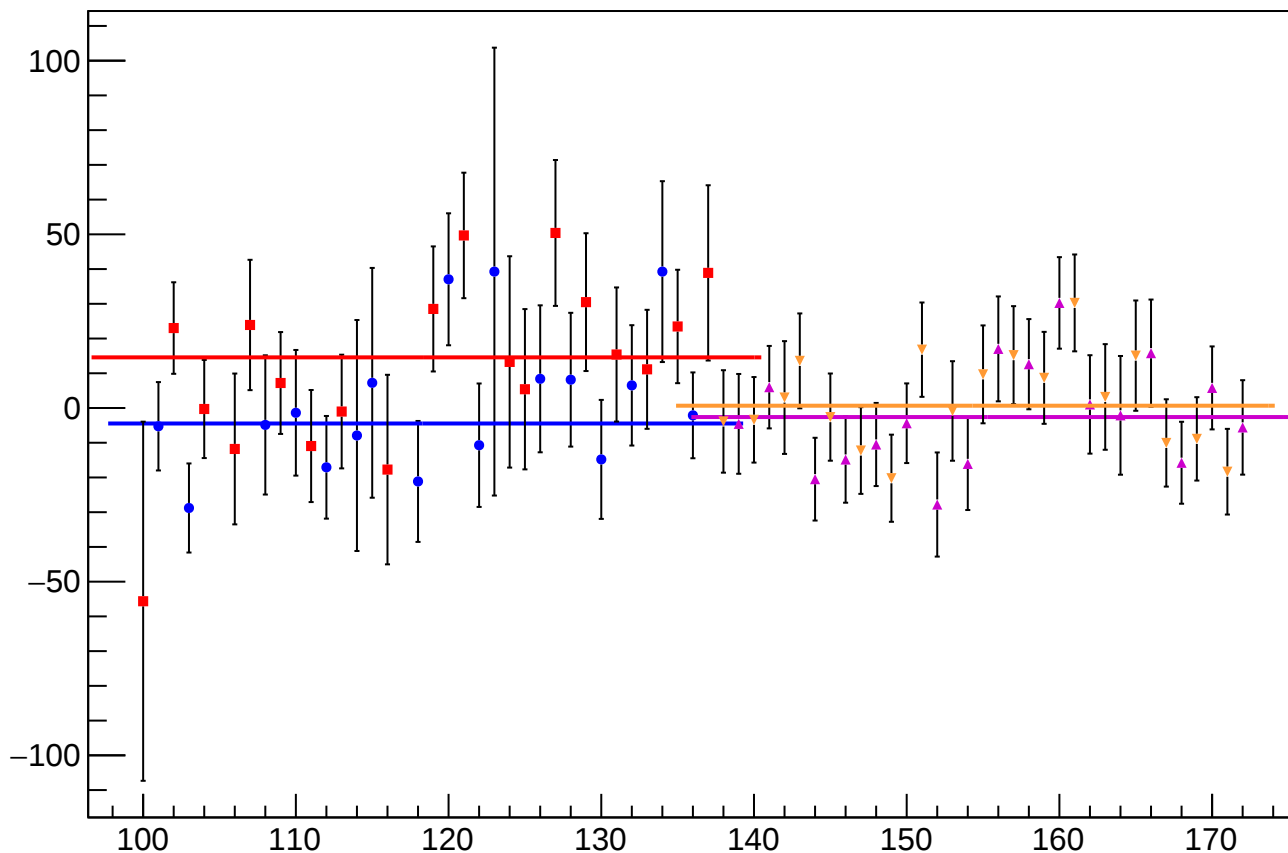
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.732 $\pm$ 0.003 χ^2 /NDF:35370.4/33

Out: 21.755 $\pm$ 0.003 χ^2 /NDF:29111.2/36

All: 21.744 $\pm$ 0.002 χ^2 /NDF: 64504.5/70

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: 0.661 ± 3.181 χ^2/NDF : 17.4/17

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -2.606 ± 3.187 χ^2/NDF : 20.6/16

Left: -0.969 ± 2.252 χ^2/NDF : 38.5/34

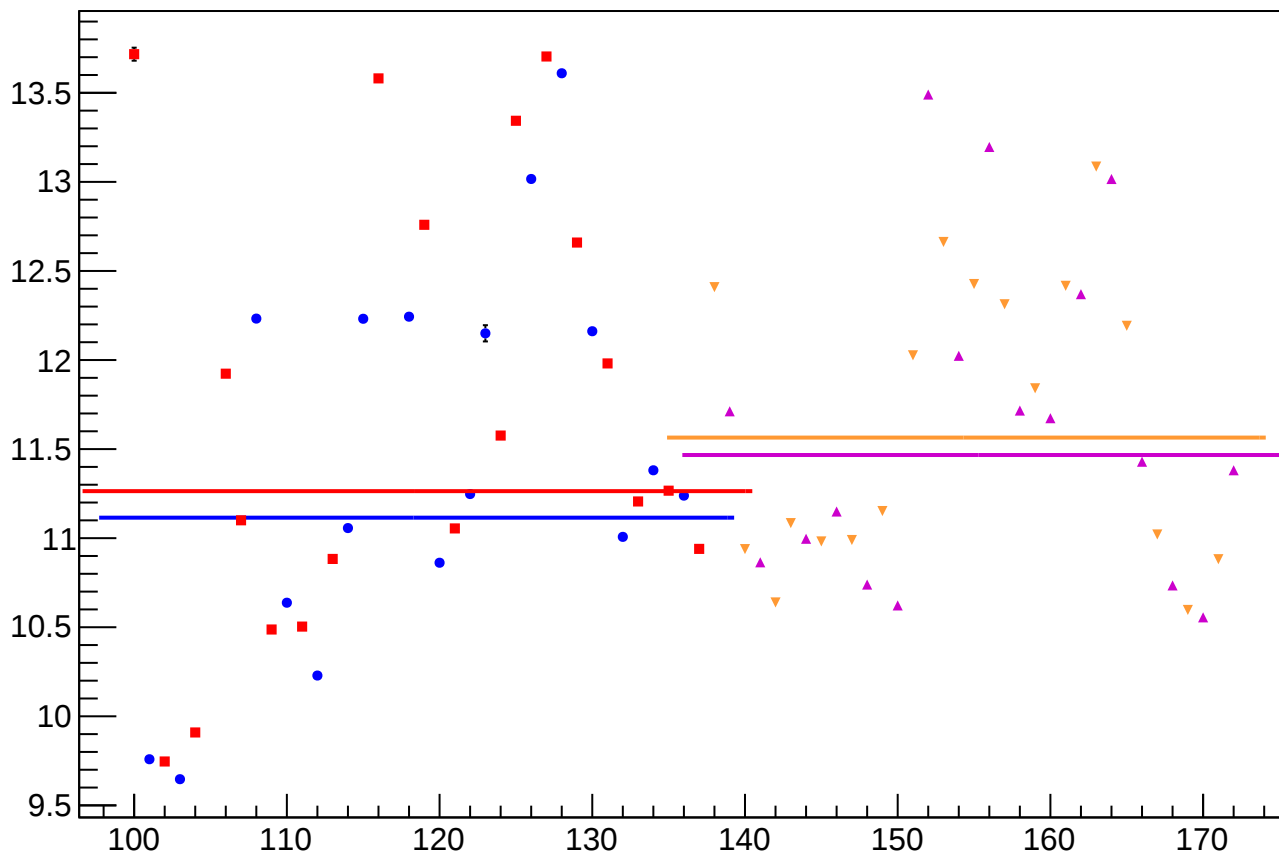
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -3.258 ± 2.567 χ^2/NDF : 35.9/33

Out: 5.638 ± 2.550 χ^2/NDF : 43.7/36

All: 1.219 ± 1.809 χ^2/NDF : 85.7/70

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115+/-0.003 χ^2/NDF : 133059.3/16

Left Out: 11.565+/-0.002 χ^2/NDF : 112939.7/17

Right Out: 11.264+/-0.003 χ^2/NDF : 147483.5/18

Left In: 11.467+/-0.002 χ^2/NDF : 139781.7/16

Left: 11.516+/-0.002 χ^2/NDF : 253664.9/34

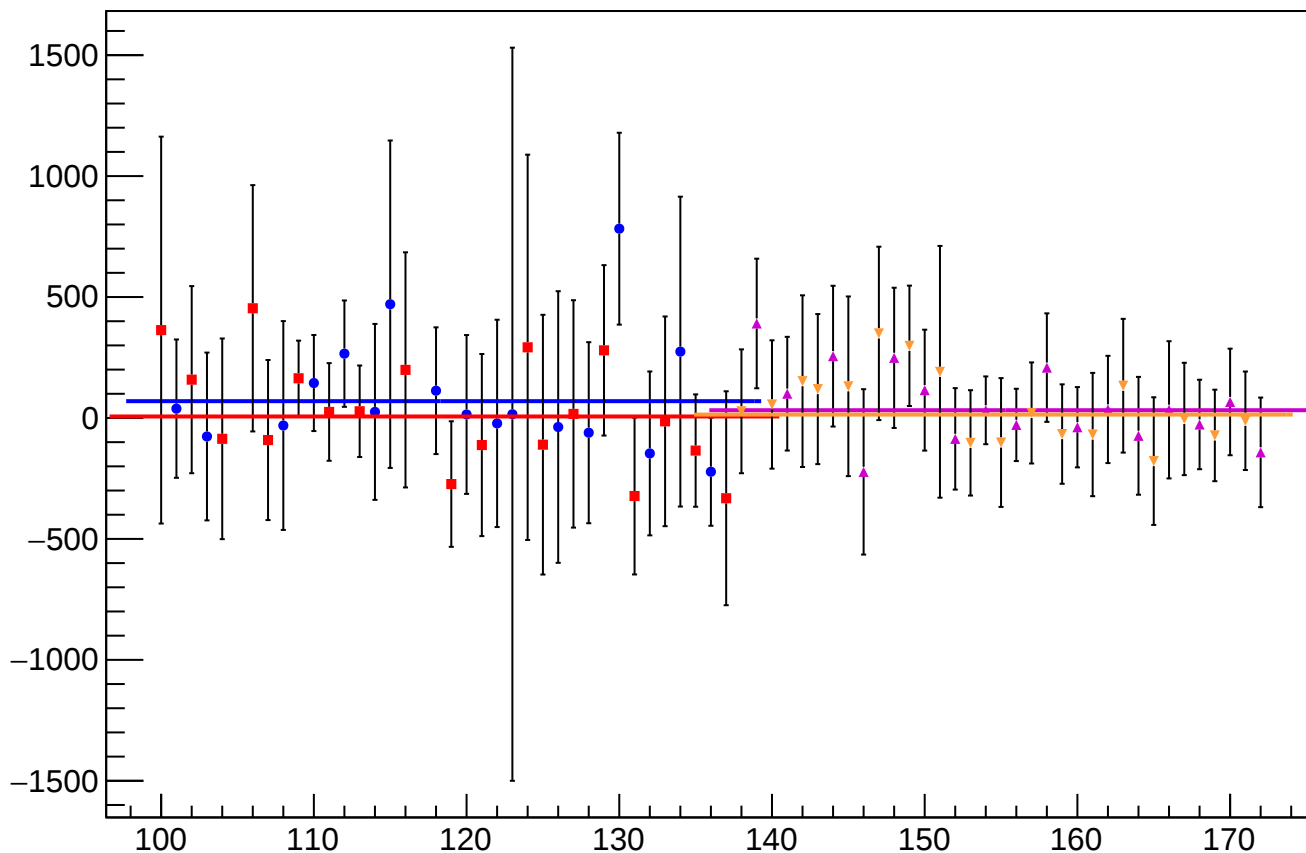
Right: 11.191+/-0.002 χ^2/NDF : 281744.0/35

In: 11.343+/-0.002 χ^2/NDF : 281405.3/33

Out: 11.457+/-0.002 χ^2/NDF : 266811.2/36

All: 11.401+/-0.001 χ^2/NDF : 550200.9/70

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470 ± 79.231 $\chi^2/\text{NDF}: 7.3/16$

Left Out: 14.062 ± 59.990 $\chi^2/\text{NDF}: 4.4/17$

Right Out: 6.194 ± 70.182 $\chi^2/\text{NDF}: 6.5/18$

Left In: 32.070 ± 51.717 $\chi^2/\text{NDF}: 5.9/16$

Left: 24.392 ± 39.170 $\chi^2/\text{NDF}: 10.3/34$

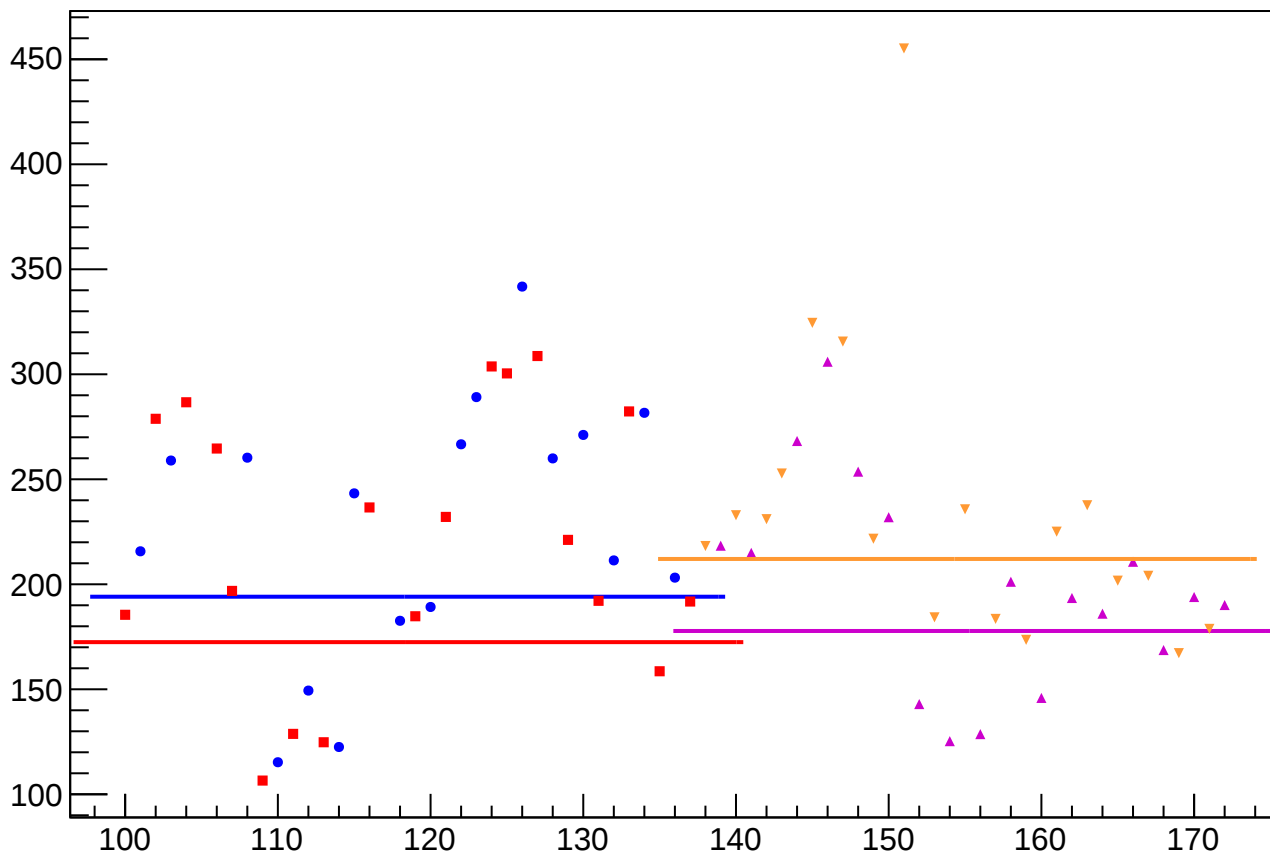
Right: 34.014 ± 52.536 $\chi^2/\text{NDF}: 14.1/35$

In: 43.244 ± 43.307 $\chi^2/\text{NDF}: 13.3/33$

Out: 10.740 ± 45.601 $\chi^2/\text{NDF}: 10.9/36$

All: 27.830 ± 31.403 $\chi^2/\text{NDF}: 24.4/70$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 212.057 $\pm$ 0.042 χ^2 /NDF:1192699.7/17

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 177.763 $\pm$ 0.037 χ^2 /NDF:1509858.8/16

Left: 192.384 $\pm$ 0.028 χ^2 /NDF: 3077494.2/34

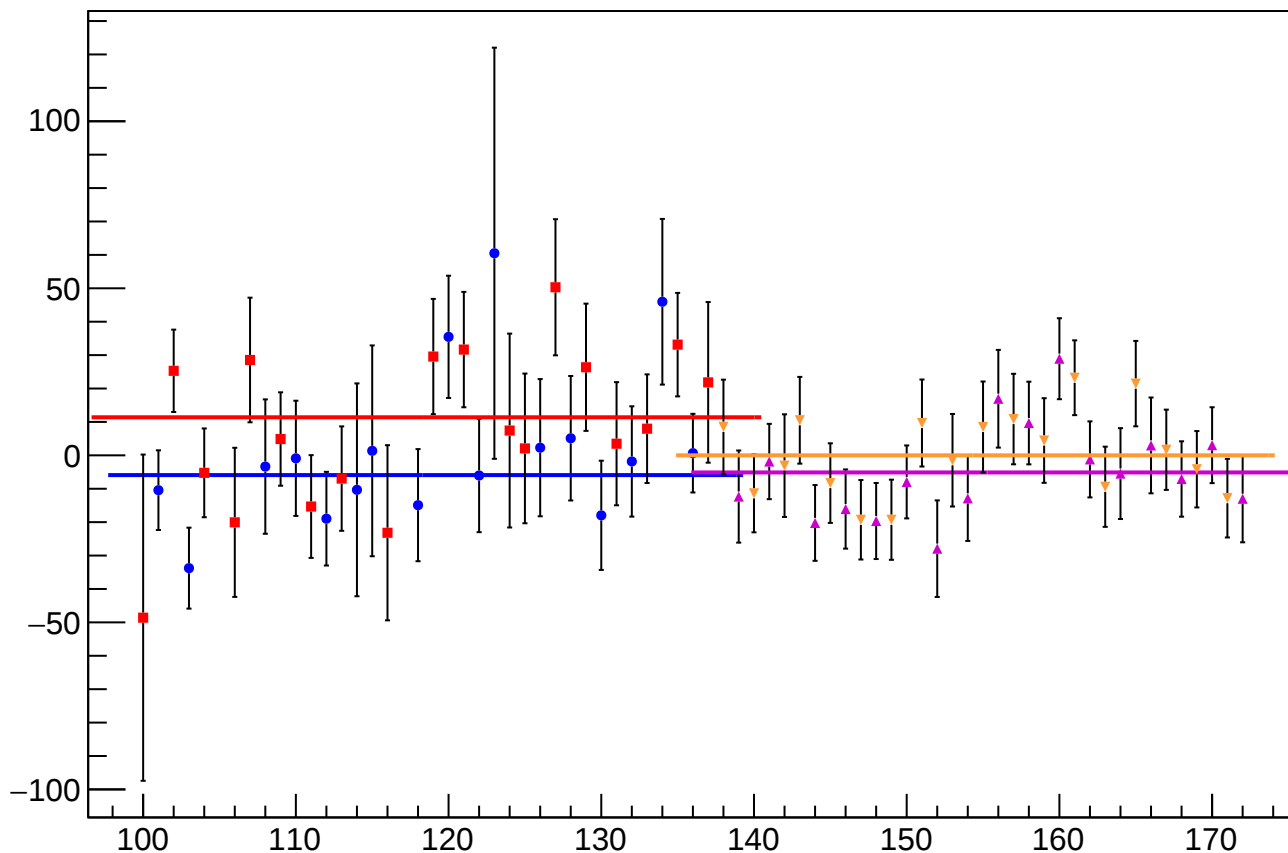
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 182.639 $\pm$ 0.031 χ^2 /NDF:2574746.0/33

Out: 195.336 $\pm$ 0.032 χ^2 /NDF:3130184.0/36

All: 188.660 $\pm$ 0.022 χ^2 /NDF: 5786465.9/70

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: 0.004 ± 2.954 χ^2/NDF : 18.5/17

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -5.120 ± 2.980 χ^2/NDF : 20.5/16

Left: -2.535 ± 2.098 χ^2/NDF : 40.5/34

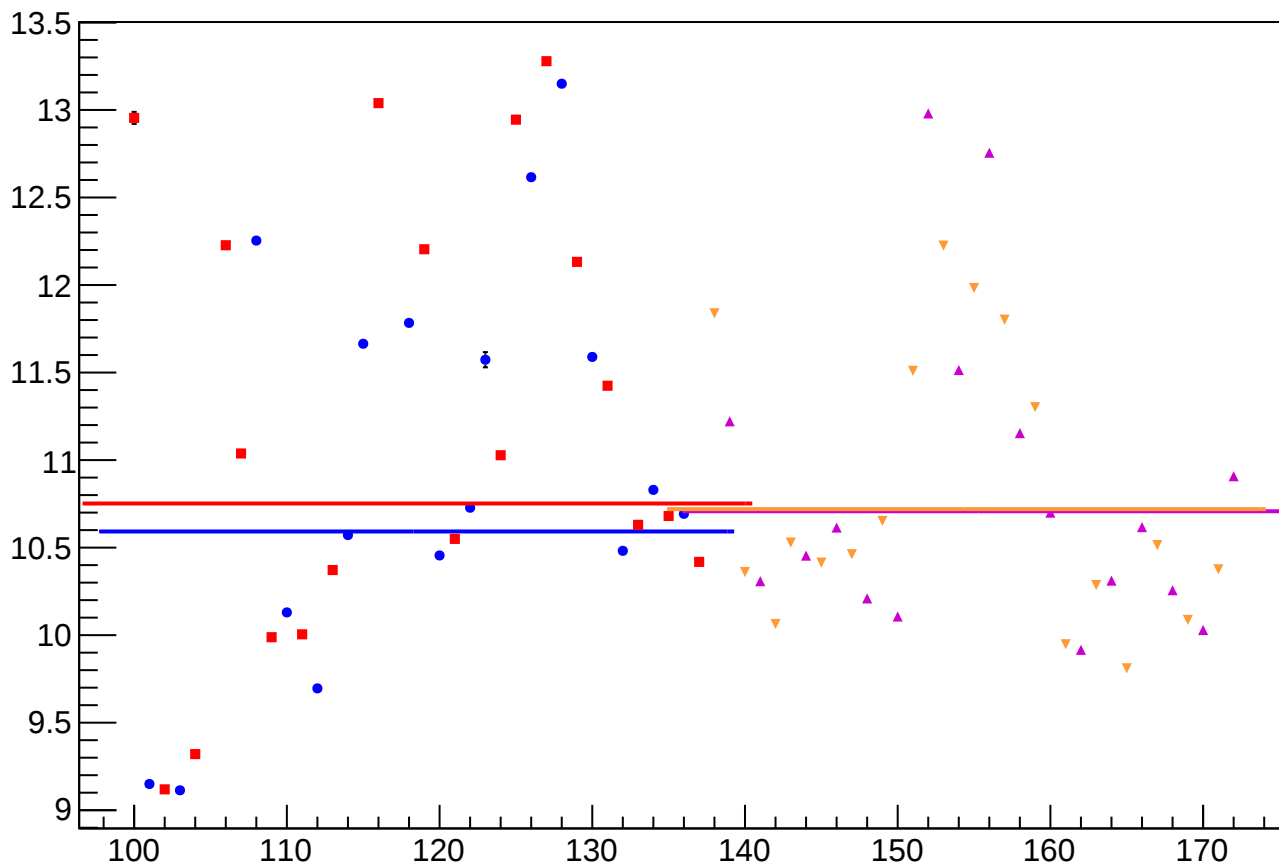
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.391 ± 2.417 χ^2/NDF : 39.4/33

Out: 3.922 ± 2.392 χ^2/NDF : 46.5/36

All: -0.686 ± 1.700 χ^2/NDF : 93.3/70

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: 10.720 $\pm$ 0.002 χ^2 /NDF:116691.9/17

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.708 $\pm$ 0.002 χ^2 /NDF:137834.6/16

Left: 10.714 $\pm$ 0.001 χ^2 /NDF: 254543.3/34

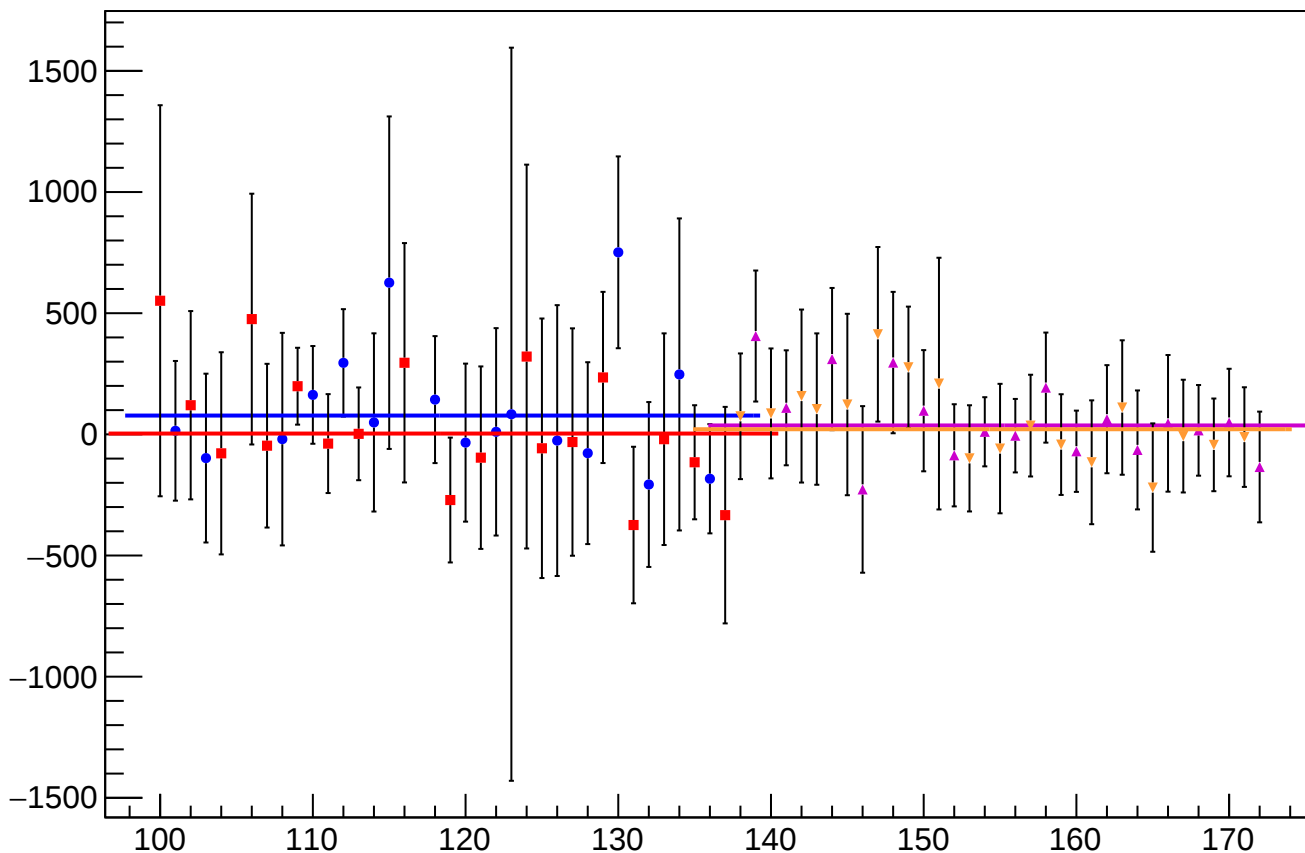
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.668 $\pm$ 0.002 χ^2 /NDF:299258.8/33

Out: 10.731 $\pm$ 0.002 χ^2 /NDF:293668.8/36

All: 10.700 $\pm$ 0.001 χ^2 /NDF: 593607.8/70

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: 21.107 $\pm$ 60.403 χ^2 /NDF:4.6/17

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 36.738 $\pm$ 52.227 χ^2 /NDF:6.4/16

Left: 30.051 $\pm$ 39.507 χ^2 /NDF: 11.0/34

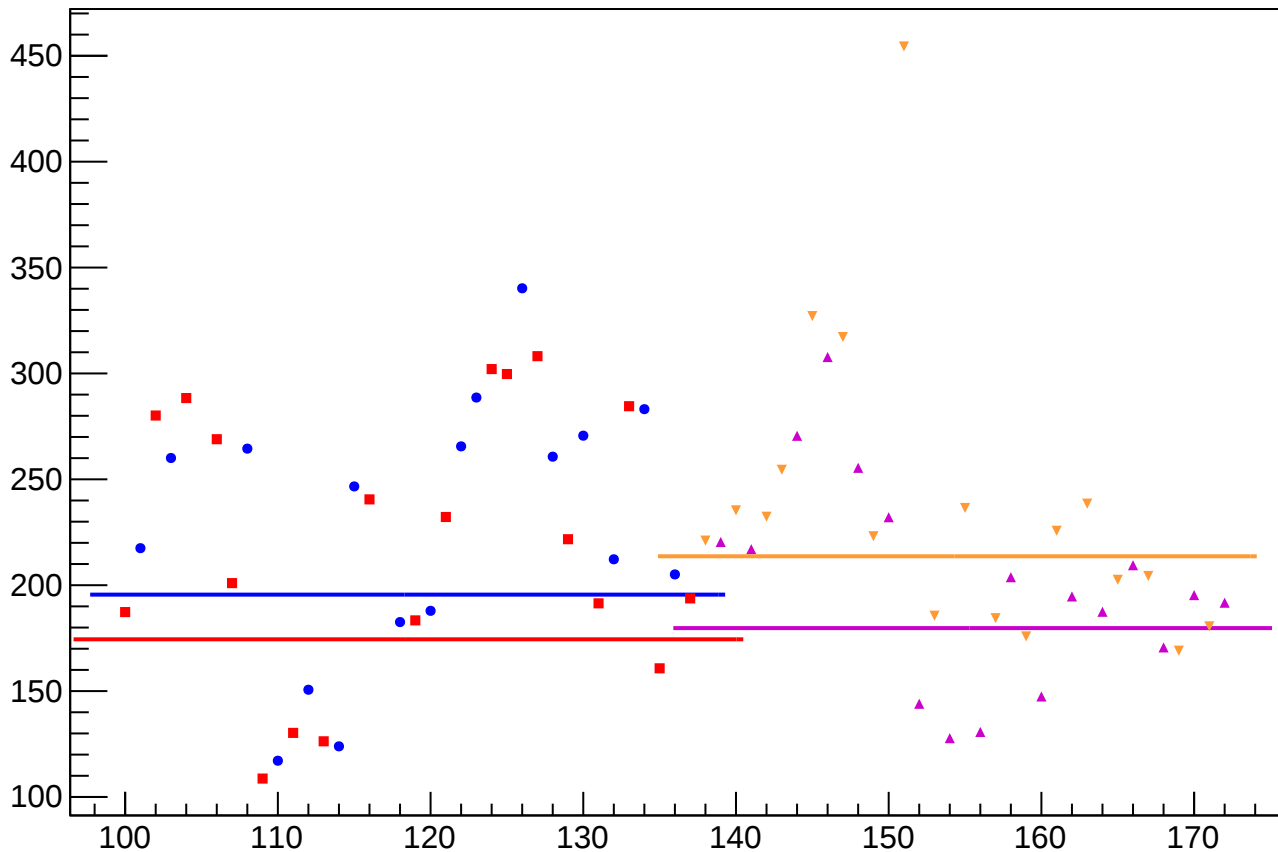
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 48.999 $\pm$ 43.692 χ^2 /NDF:14.1/33

Out: 13.615 $\pm$ 45.967 χ^2 /NDF:12.0/36

All: 32.204 $\pm$ 31.669 χ^2 /NDF: 26.4/70

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551+/-0.056 χ^2/NDF : 979937.7/16

Left Out: 213.656+/-0.043 χ^2/NDF :1175978.5/17

Right Out: 174.449+/-0.050 χ^2/NDF : 1528629.1/18

Left In: 179.746+/-0.037 χ^2/NDF :1467305.6/16

Left: 194.252+/-0.028 χ^2/NDF : 3003967.4/34

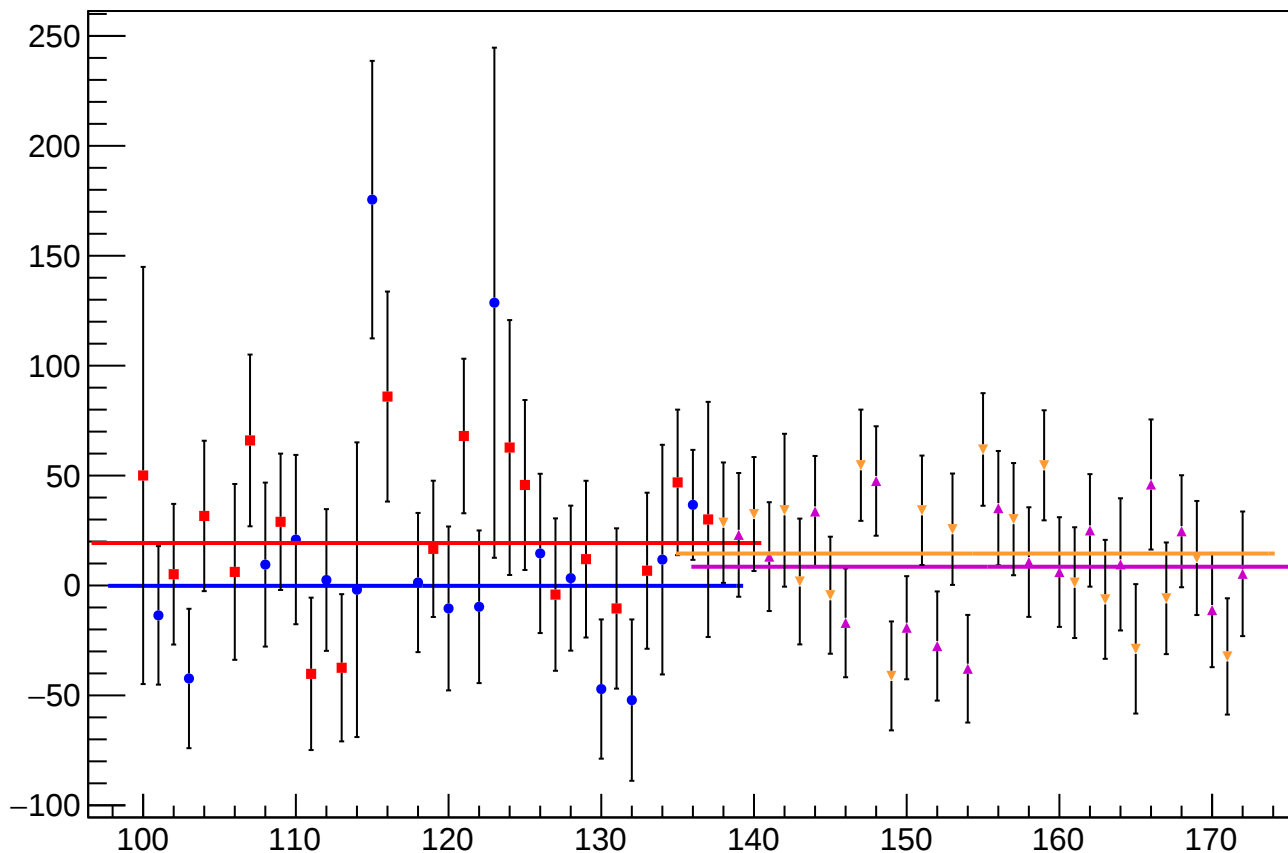
Right: 183.758+/-0.037 χ^2/NDF : 2586820.6/35

In: 184.490+/-0.031 χ^2/NDF :2502220.1/33

Out: 197.155+/-0.033 χ^2/NDF :3059241.6/36

All: 190.501+/-0.022 χ^2/NDF : 5641226.9/70

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.158 ± 8.826 $\chi^2/\text{NDF}: 18.1/16$

Left Out: 14.533 ± 6.219 $\chi^2/\text{NDF}: 23.3/17$

Right Out: 19.316 ± 8.554 $\chi^2/\text{NDF}: 14.8/18$

Left In: 8.526 ± 6.256 $\chi^2/\text{NDF}: 16.0/16$

Left: 11.547 ± 4.410 $\chi^2/\text{NDF}: 39.8/34$

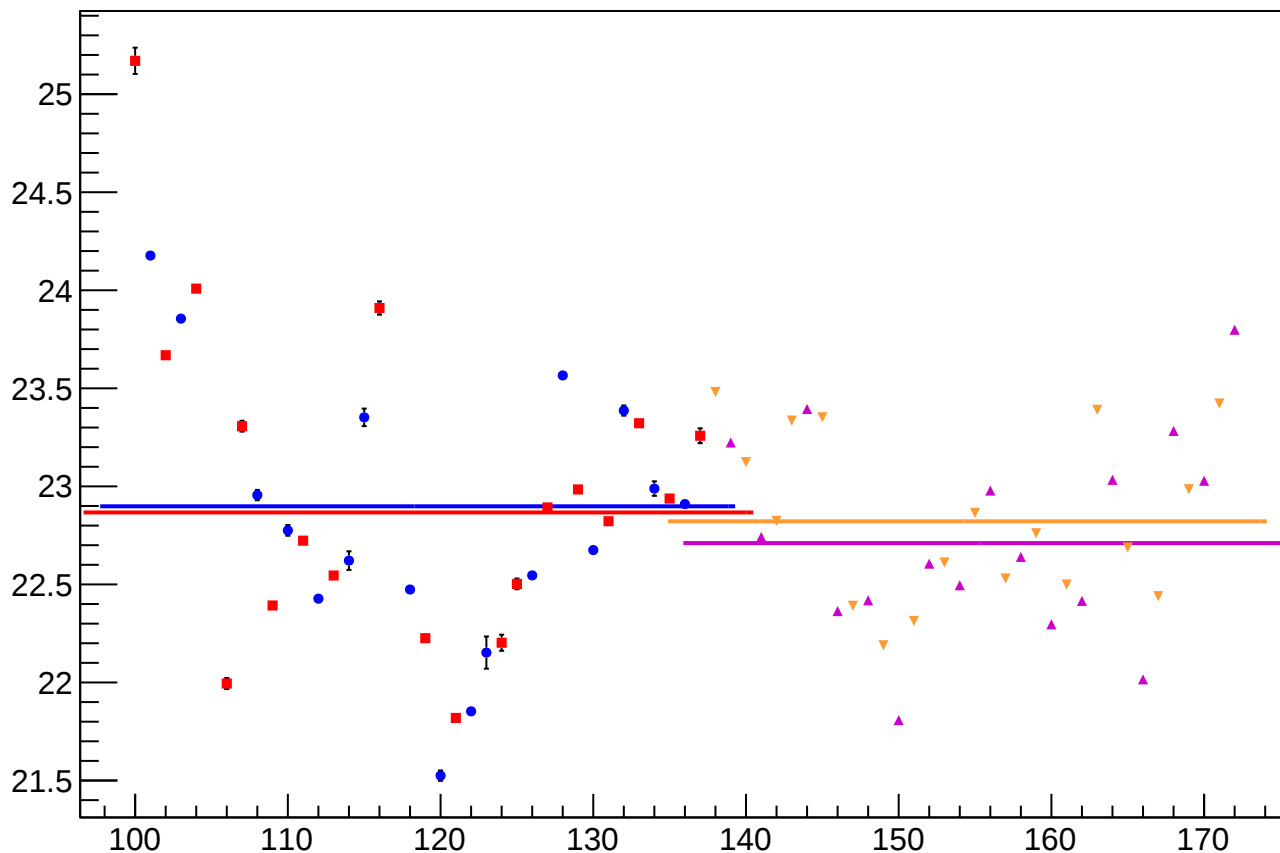
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 5.622 ± 5.104 $\chi^2/\text{NDF}: 34.7/33$

Out: 16.187 ± 5.030 $\chi^2/\text{NDF}: 38.4/36$

All: 10.982 ± 3.583 $\chi^2/\text{NDF}: 75.2/70$

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: 22.822 $\pm$ 0.004 χ^2 /NDF: 8814.4/17

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.711 $\pm$ 0.004 χ^2 /NDF: 12585.7/16

Left: 22.767 $\pm$ 0.003 χ^2 /NDF: 21716.5/34

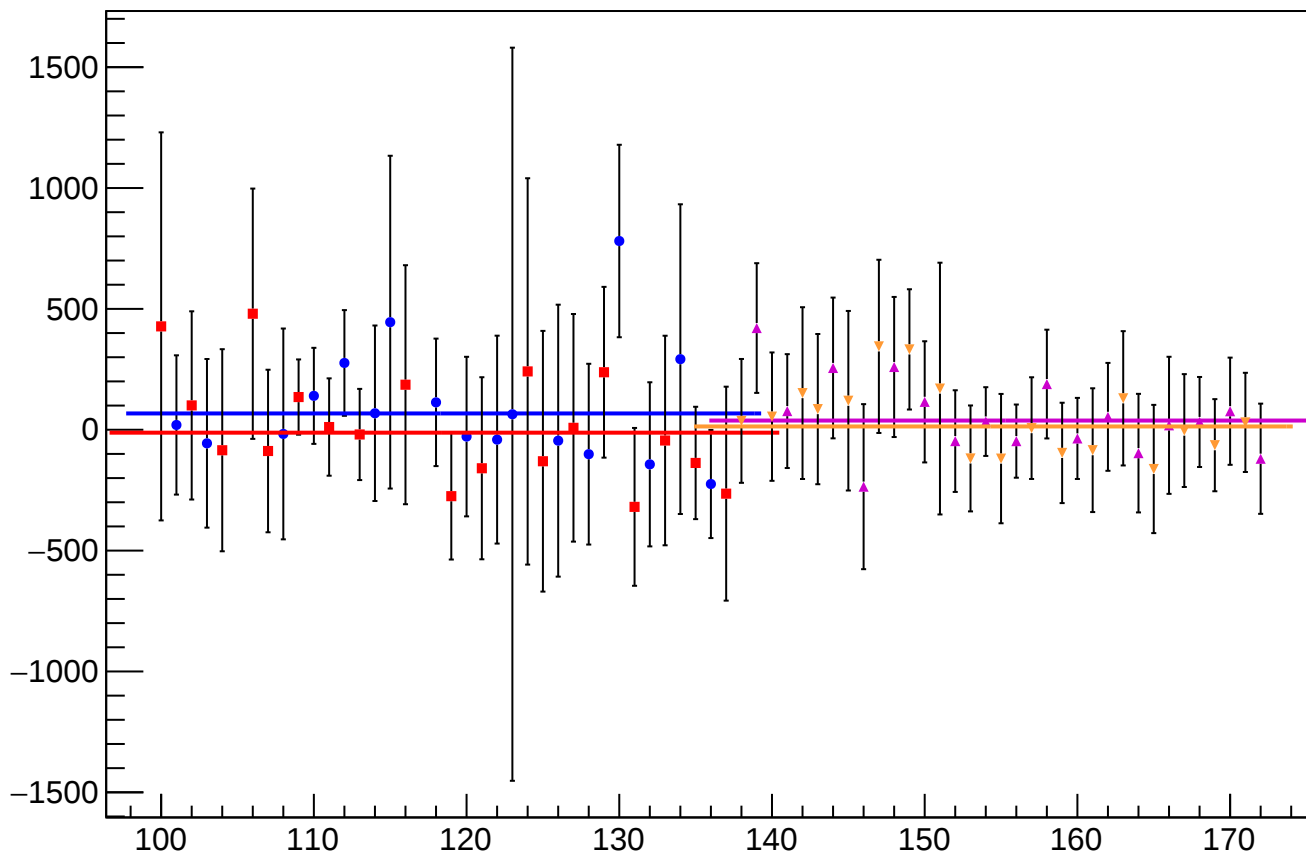
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.774 $\pm$ 0.004 χ^2 /NDF: 25329.5/33

Out: 22.837 $\pm$ 0.004 χ^2 /NDF: 19899.3/36

All: 22.806 $\pm$ 0.003 χ^2 /NDF: 45387.8/70

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: 13.601 $\pm$ 60.277 χ^2 /NDF:4.7/17

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 38.087 $\pm$ 52.081 χ^2 /NDF:5.9/16

Left: 27.621 $\pm$ 39.408 χ^2 /NDF: 10.7/34

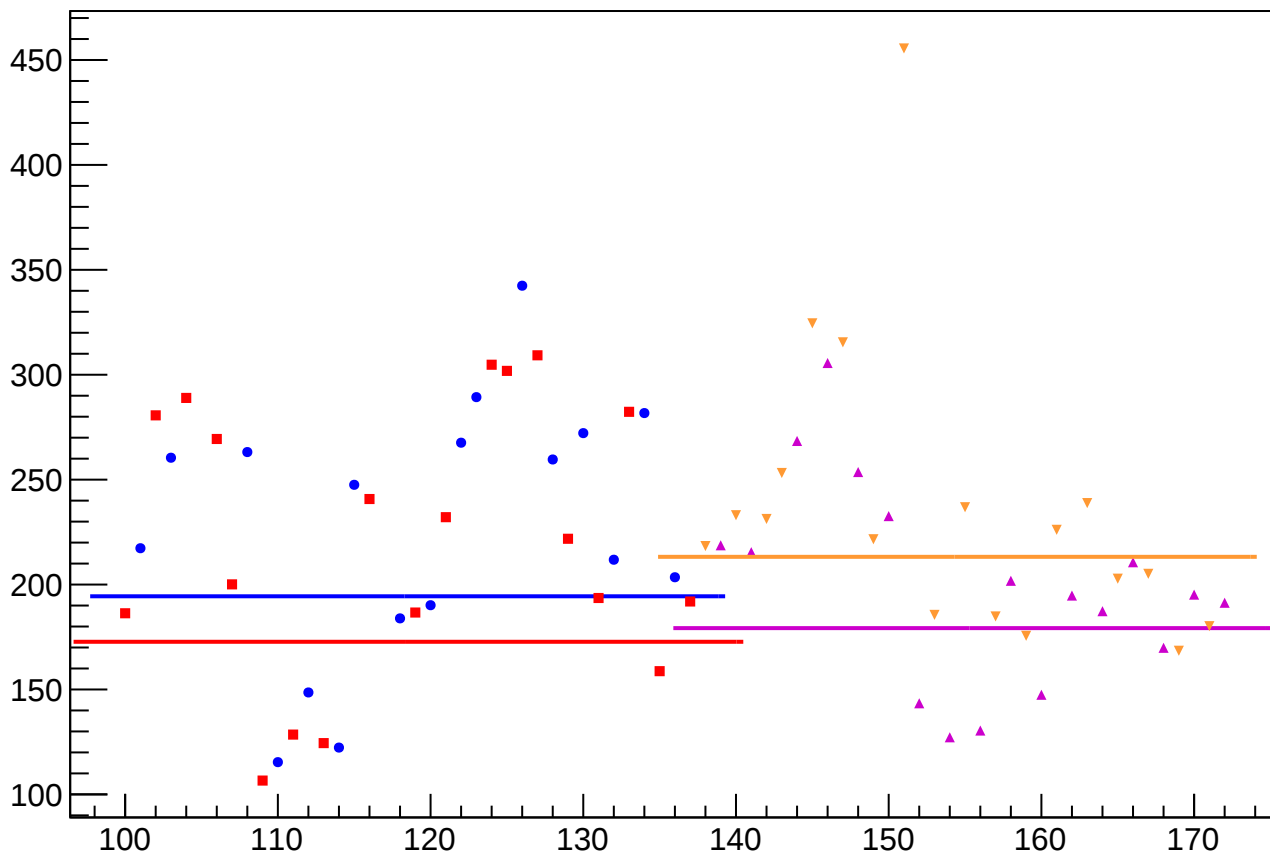
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 46.919 $\pm$ 43.549 χ^2 /NDF:13.4/33

Out: 2.714 $\pm$ 45.774 χ^2 /NDF:10.6/36

All: 25.917 $\pm$ 31.551 χ^2 /NDF: 24.4/70

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411+/-0.056 χ^2/NDF : 1019913.2/16

Left Out: 213.219+/-0.043 χ^2/NDF : 1167217.9/17

Right Out: 172.730+/-0.050 χ^2/NDF : 1596758.0/18

Left In: 179.240+/-0.037 χ^2/NDF : 1457628.7/16

Left: 193.764+/-0.028 χ^2/NDF : 2988723.2/34

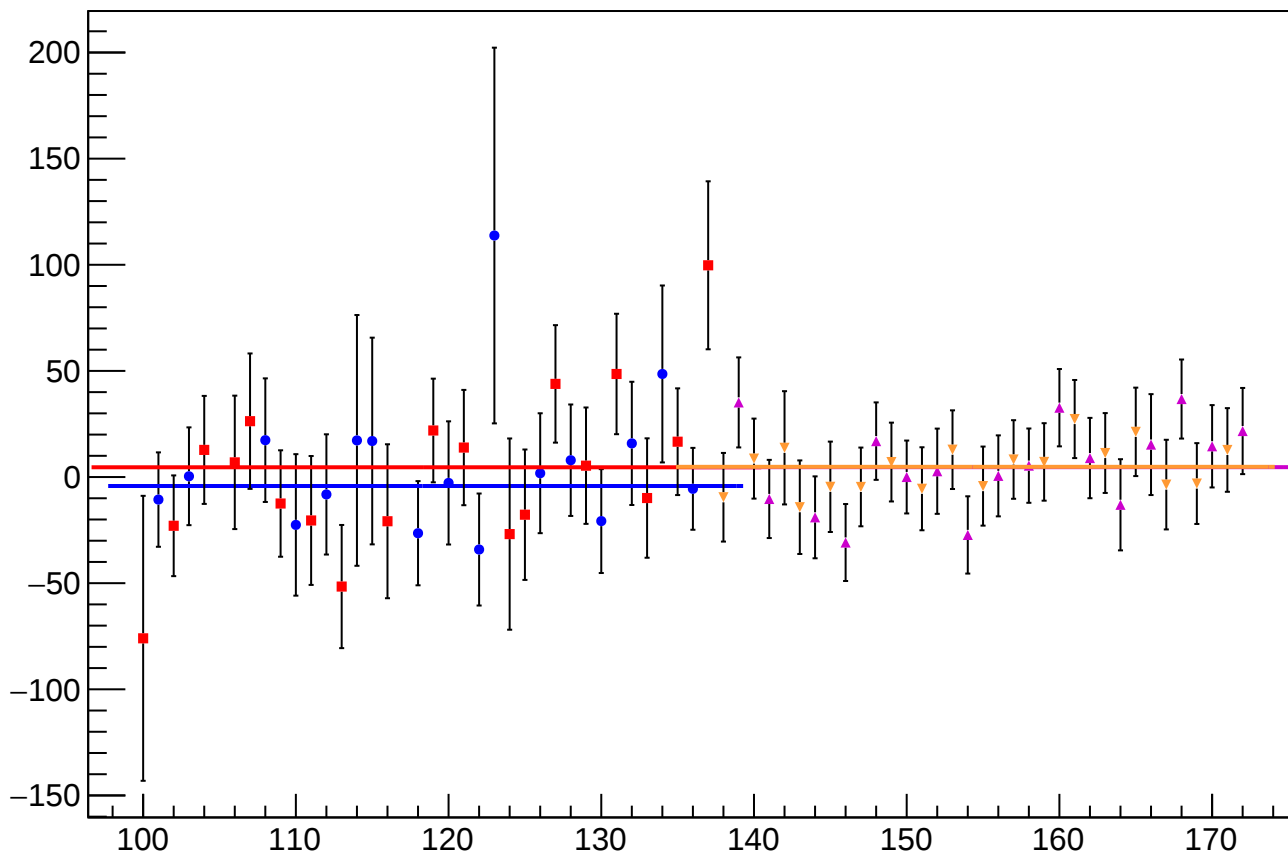
Right: 182.265+/-0.037 χ^2/NDF : 2700196.8/35

In: 183.803+/-0.031 χ^2/NDF : 2528585.2/33

Out: 196.080+/-0.032 χ^2/NDF : 3145959.1/36

All: 189.636+/-0.022 χ^2/NDF : 5750051.0/70

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: 4.809 ± 4.633 $\chi^2/\text{NDF}: 5.3/17$

Right Out: 4.599 ± 6.725 $\chi^2/\text{NDF}: 21.1/18$

Left In: 4.655 ± 4.636 $\chi^2/\text{NDF}: 19.0/16$

Left: 4.732 ± 3.277 $\chi^2/\text{NDF}: 24.3/34$

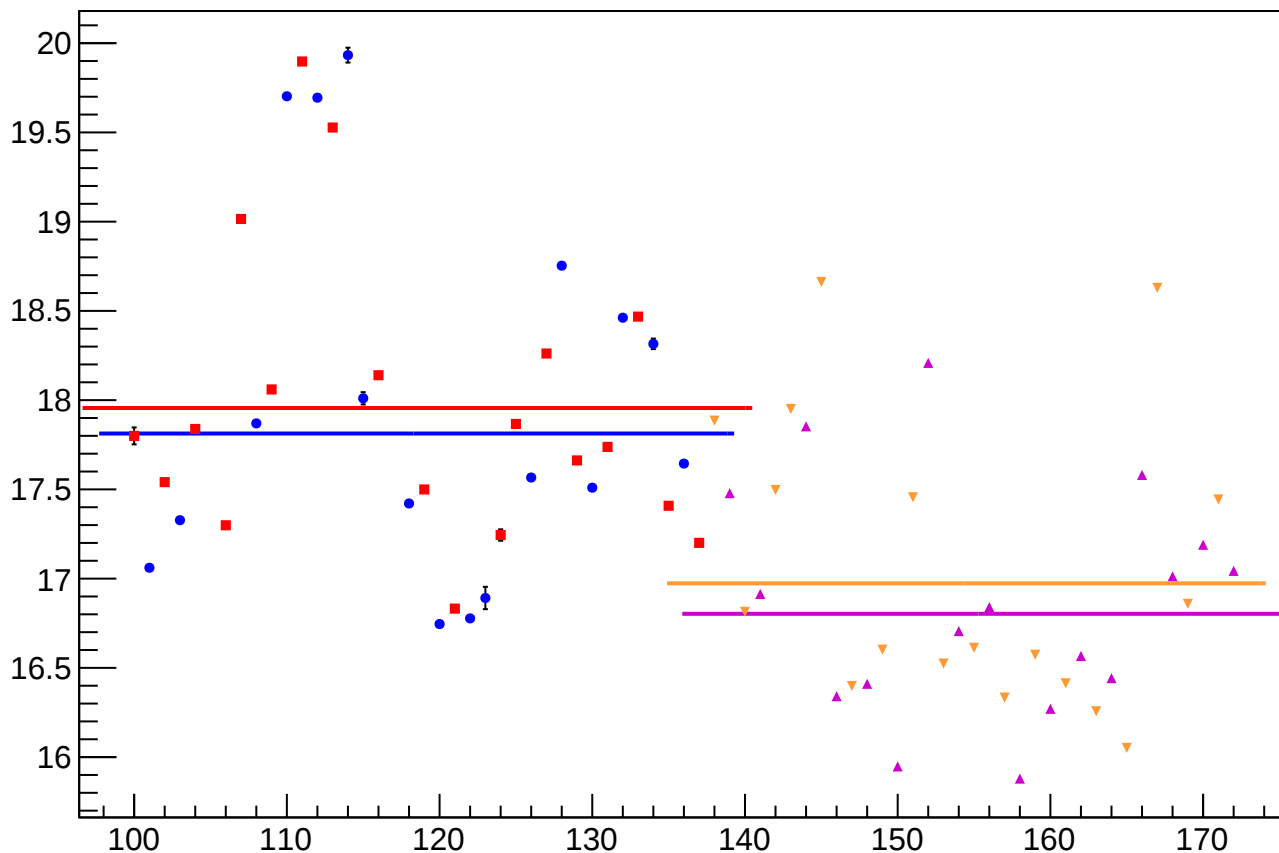
Right: 0.283 ± 4.806 $\chi^2/\text{NDF}: 29.9/35$

In: 1.878 ± 3.843 $\chi^2/\text{NDF}: 28.1/33$

Out: 4.742 ± 3.815 $\chi^2/\text{NDF}: 26.4/36$

All: 3.320 ± 2.708 $\chi^2/\text{NDF}: 54.8/70$

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: 16.974 $\pm$ 0.003 χ^2 /NDF: 52627.5/17

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.803 $\pm$ 0.003 χ^2 /NDF: 36699.6/16

Left: 16.888 $\pm$ 0.002 χ^2 /NDF: 90683.8/34

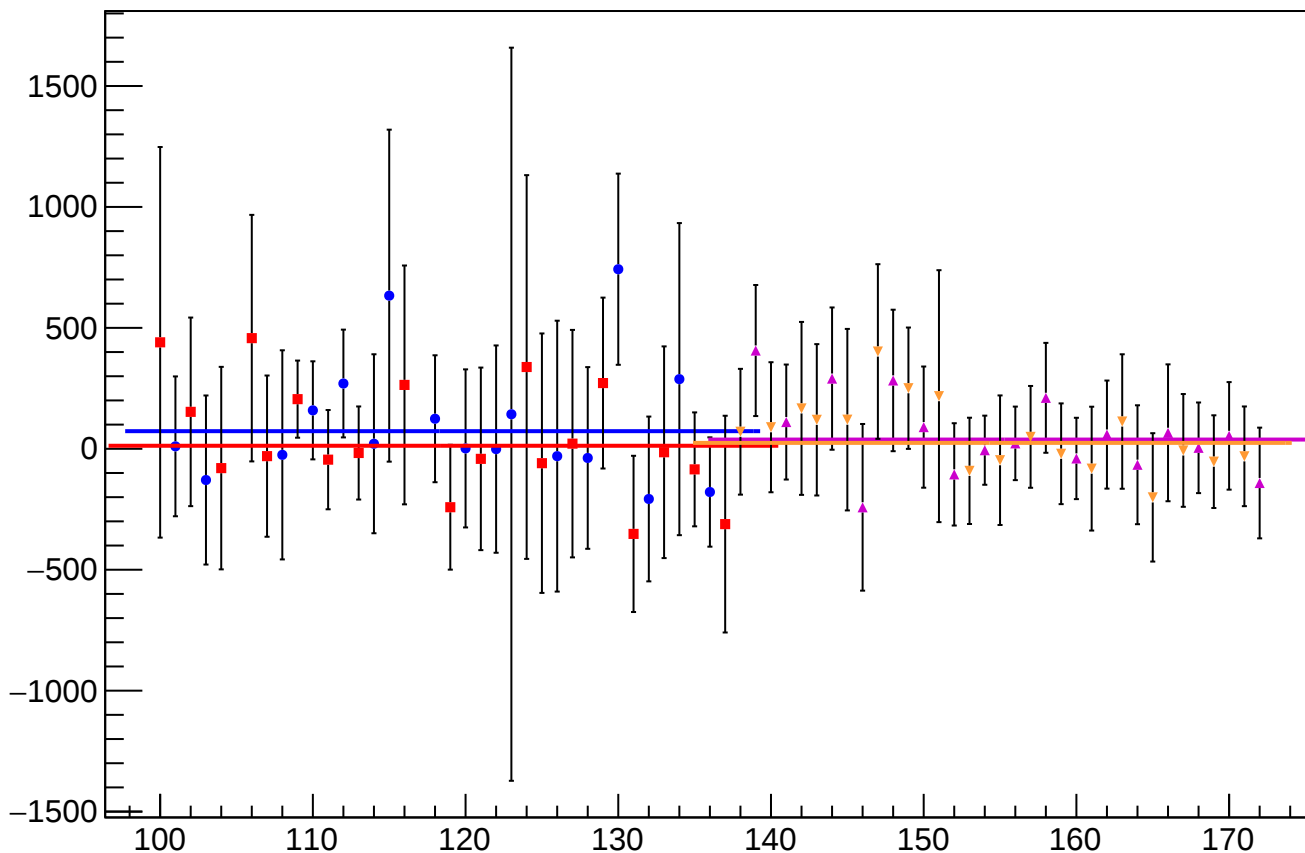
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.119 $\pm$ 0.003 χ^2 /NDF: 98424.7/33

Out: 17.290 $\pm$ 0.003 χ^2 /NDF: 107003.4/36

All: 17.205 $\pm$ 0.002 χ^2 /NDF: 207420.2/70

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 24.478+/-60.539 χ^2/NDF : 4.1/17

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 38.207+/-52.333 χ^2/NDF : 6.3/16

Left: 32.335+/-39.591 χ^2/NDF : 10.4/34

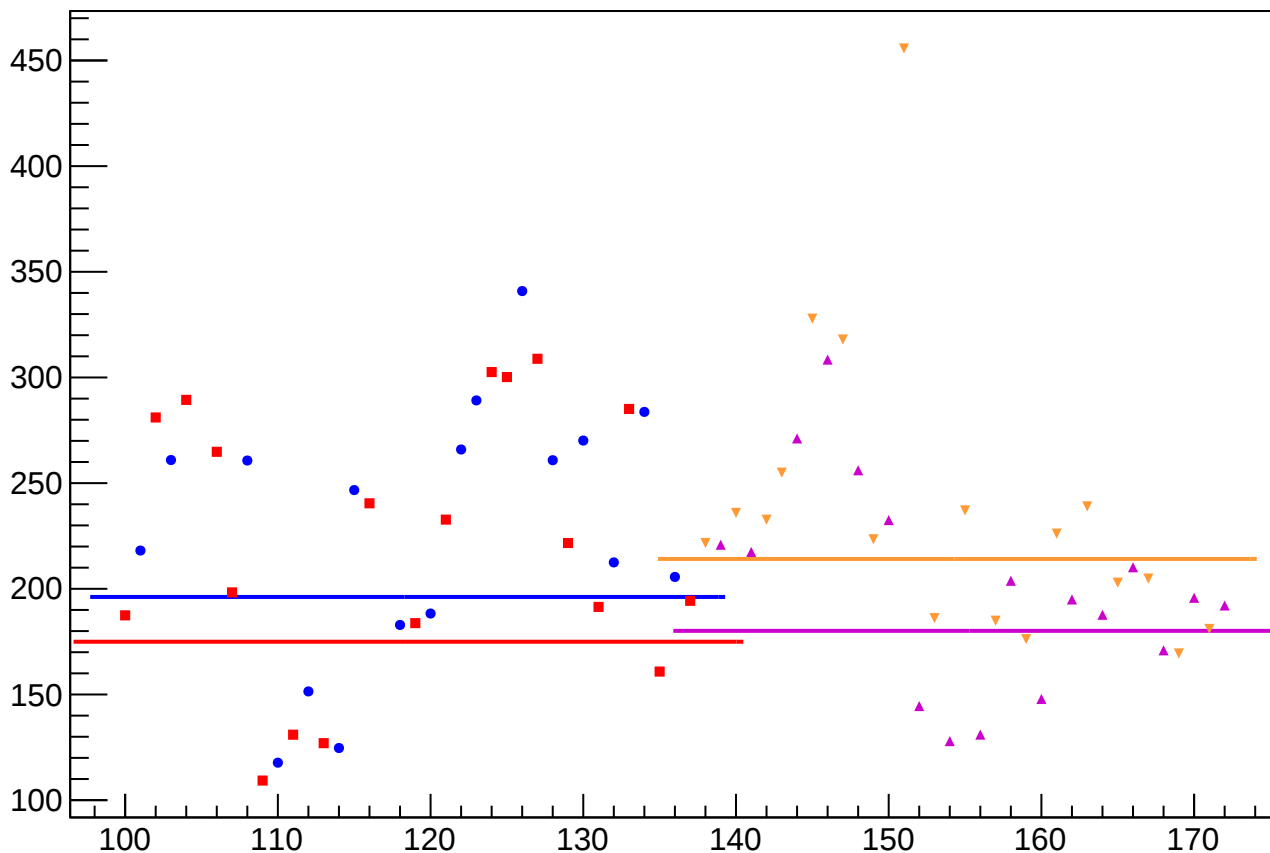
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 48.609+/-43.786 χ^2/NDF : 13.6/33

Out: 19.464+/-46.070 χ^2/NDF : 10.9/36

All: 34.777+/-31.738 χ^2/NDF : 24.7/70

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: 214.135+/-0.043 χ^2/NDF :1175987.2/17

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 180.109+/-0.037 χ^2/NDF :1467057.3/16

Left: 194.661+/-0.028 χ^2/NDF : 3004627.8/34

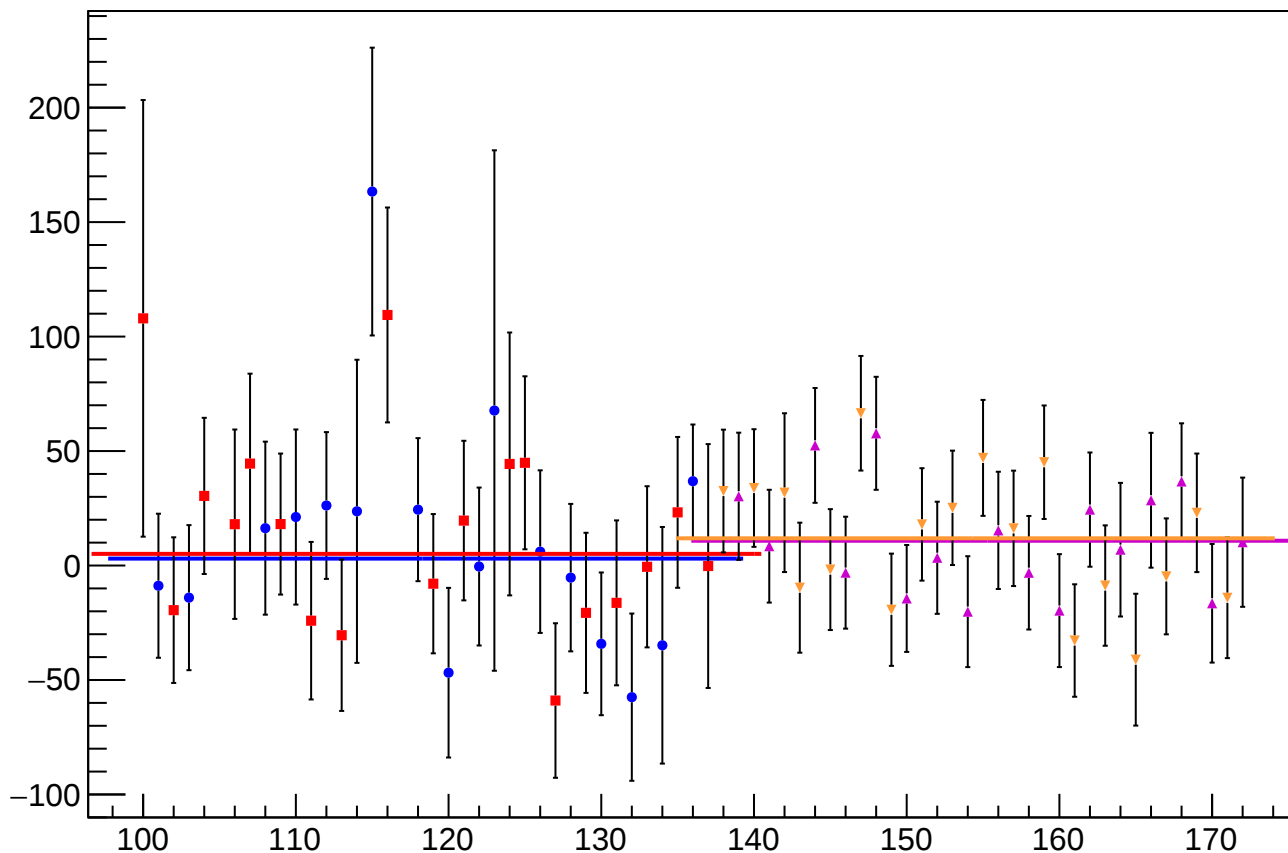
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 184.921+/-0.031 χ^2/NDF :2488423.6/33

Out: 197.649+/-0.033 χ^2/NDF :3039339.4/36

All: 190.962+/-0.022 χ^2/NDF : 5607964.1/70

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 11.891 ± 6.143 $\chi^2/\text{NDF}: 21.9/17$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 10.830 ± 6.192 $\chi^2/\text{NDF}: 14.8/16$

Left: 11.365 ± 4.361 $\chi^2/\text{NDF}: 36.7/34$

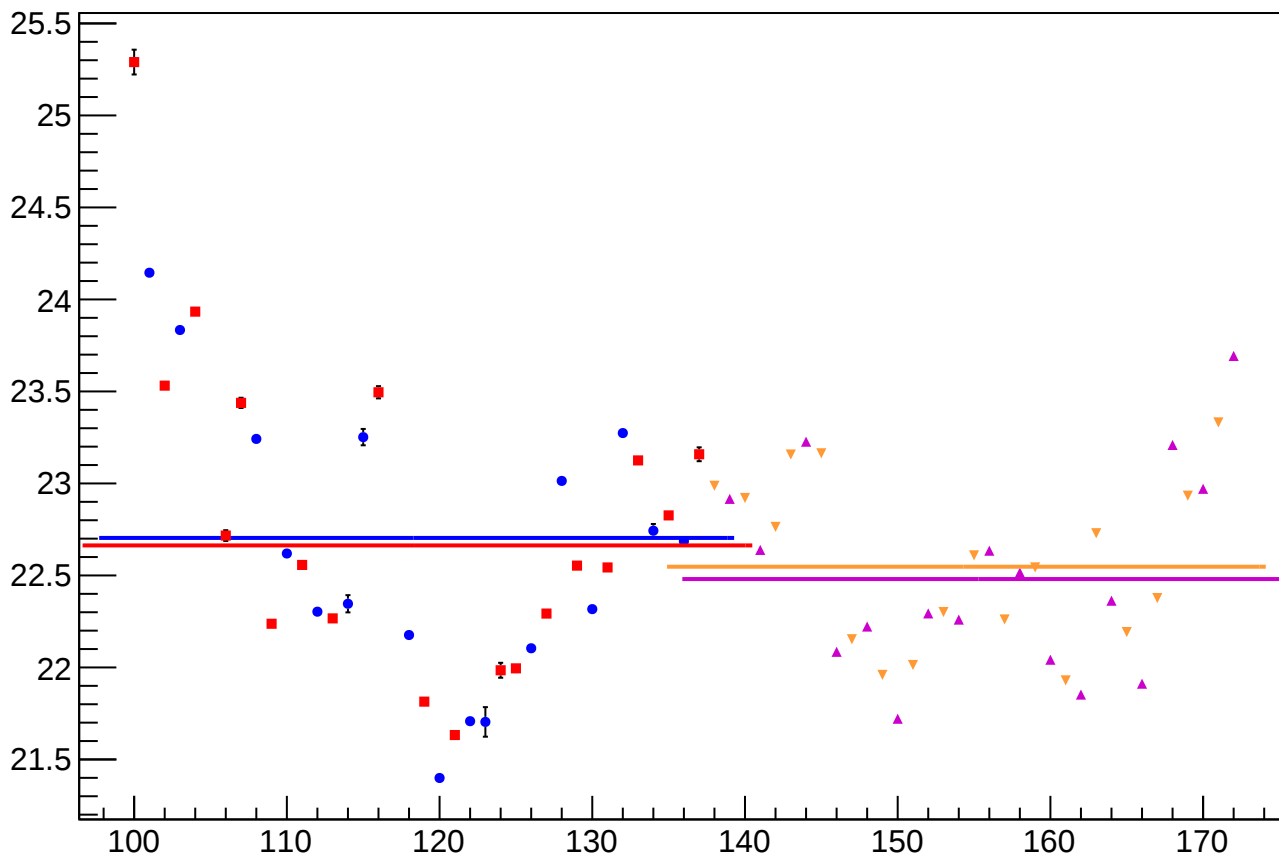
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 8.225 ± 5.055 $\chi^2/\text{NDF}: 32.5/33$

Out: 9.550 ± 4.974 $\chi^2/\text{NDF}: 39.5/36$

All: 8.898 ± 3.546 $\chi^2/\text{NDF}: 72.0/70$

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: 22.547 $\pm$ 0.004 χ^2 /NDF:10080.6/17

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.480 $\pm$ 0.004 χ^2 /NDF:14293.1/16

Left: 22.514 $\pm$ 0.003 χ^2 /NDF: 24491.6/34

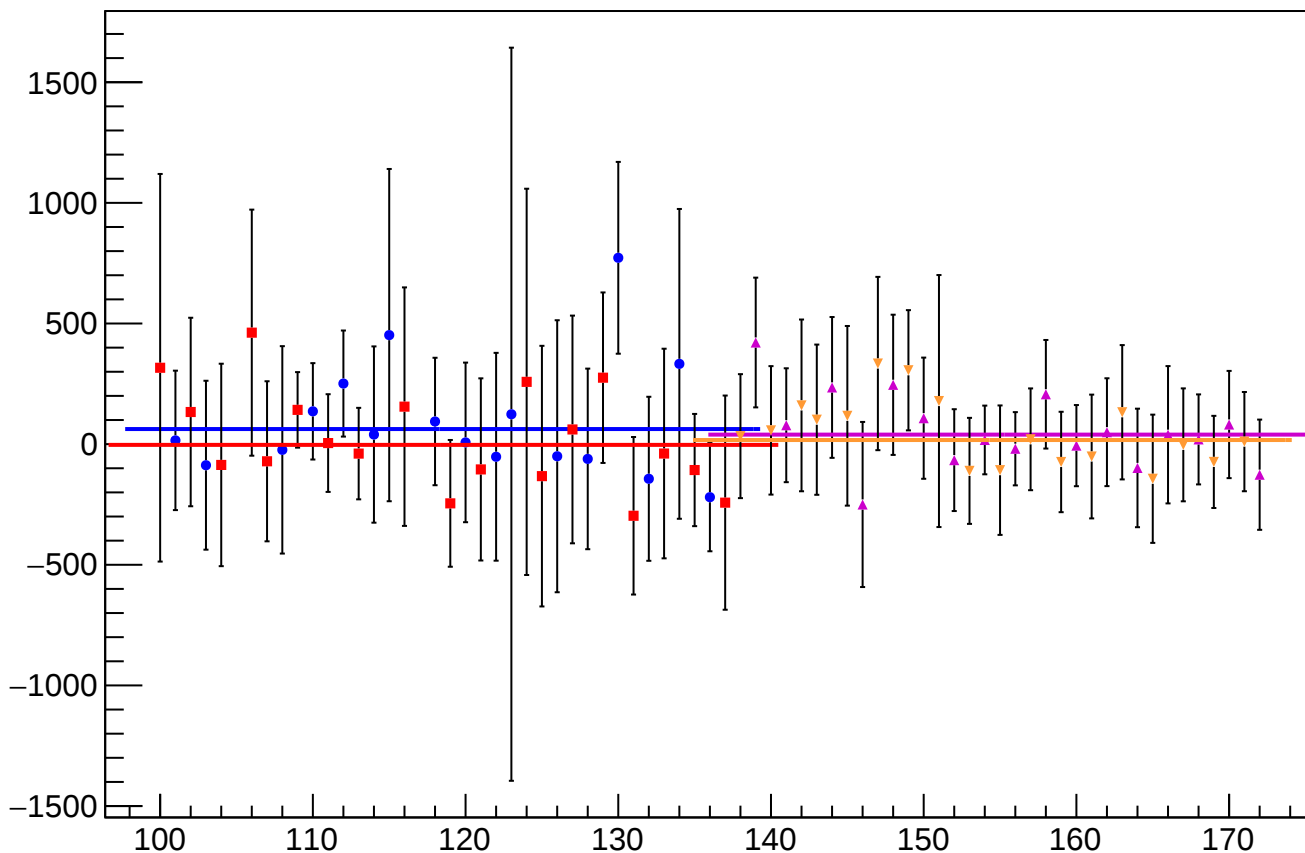
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.555 $\pm$ 0.004 χ^2 /NDF:29267.8/33

Out: 22.587 $\pm$ 0.004 χ^2 /NDF:23268.4/36

All: 22.571 $\pm$ 0.003 χ^2 /NDF: 52577.7/70

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: 17.027+/-60.412 χ^2/NDF : 4.1/17

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 39.495+/-52.187 χ^2/NDF : 5.7/16

Left: 29.894+/-39.492 χ^2/NDF : 10.0/34

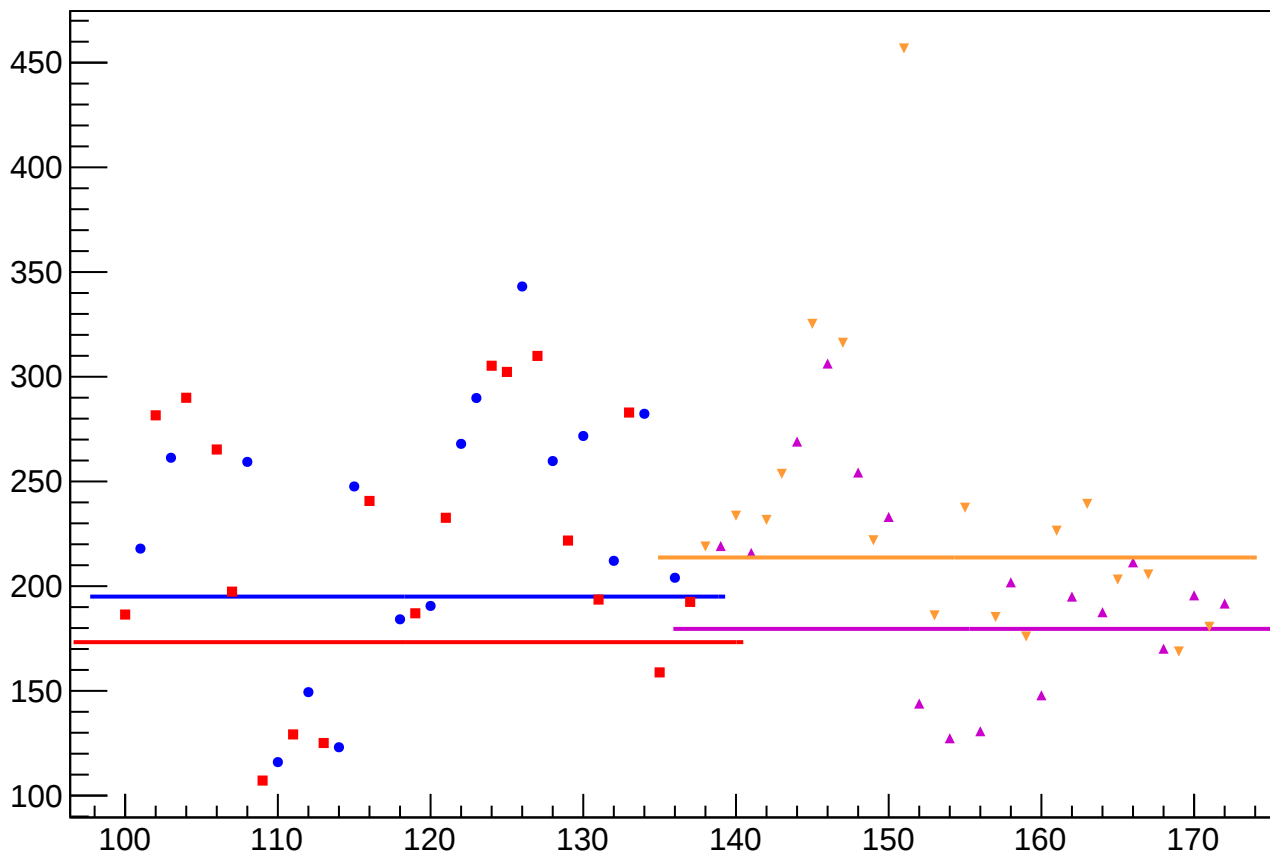
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 46.432+/-43.644 χ^2/NDF : 12.8/33

Out: 8.534+/-45.879 χ^2/NDF : 9.4/36

All: 28.428+/-31.621 χ^2/NDF : 22.6/70

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022 $\pm$ 0.056 χ^2 /NDF: 1004284.9/16

Left Out: 213.697 $\pm$ 0.043 χ^2 /NDF: 1167230.7/17

Right Out: 173.262 $\pm$ 0.050 χ^2 /NDF: 1578202.7/18

Left In: 179.602 $\pm$ 0.037 χ^2 /NDF: 1457474.6/16

Left: 194.172 $\pm$ 0.028 χ^2 /NDF: 2989506.8/34

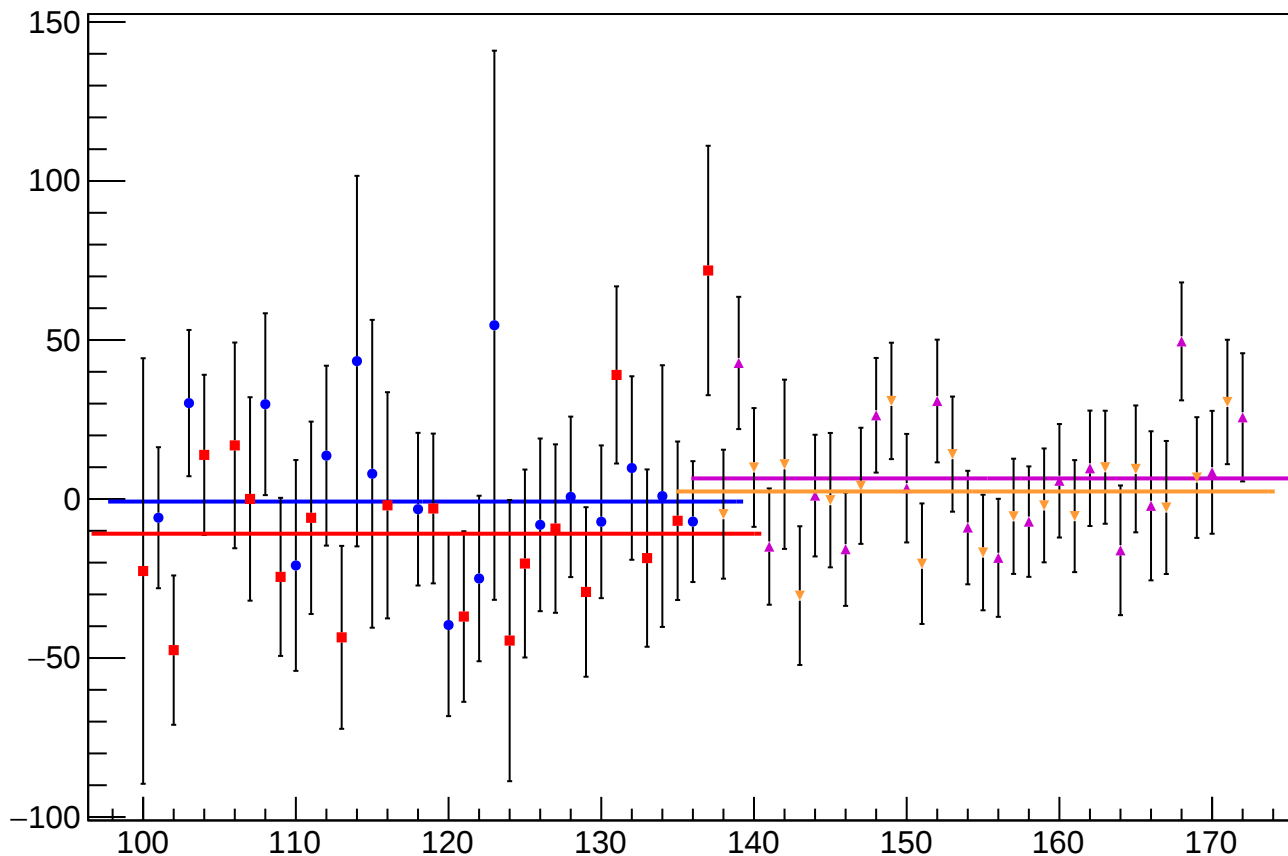
Right: 182.829 $\pm$ 0.037 χ^2 /NDF: 2666222.6/35

In: 184.237 $\pm$ 0.031 χ^2 /NDF: 2514245.2/33

Out: 196.582 $\pm$ 0.032 χ^2 /NDF: 3124681.5/36

All: 190.101 $\pm$ 0.022 χ^2 /NDF: 5714936.6/70

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: 2.371 ± 4.534 χ^2/NDF : 11.0/17

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 6.476 ± 4.555 χ^2/NDF : 19.8/16

Left: 4.414 ± 3.213 χ^2/NDF : 31.2/34

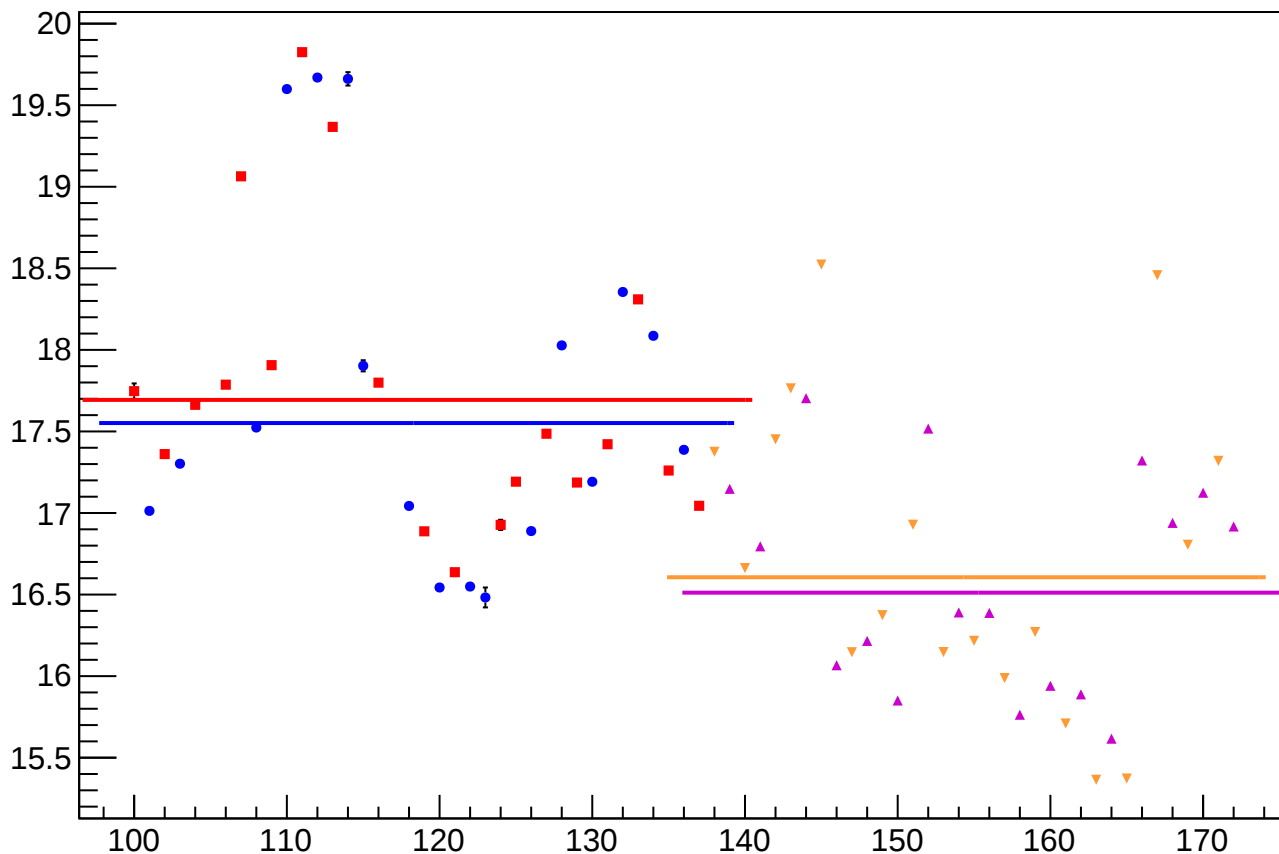
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 4.208 ± 3.779 χ^2/NDF : 28.3/33

Out: -1.864 ± 3.742 χ^2/NDF : 29.7/36

All: 1.141 ± 2.659 χ^2/NDF : 59.3/70

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: 16.606 $\pm$ 0.003 χ^2 /NDF: 75550.8/17

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.512 $\pm$ 0.003 χ^2 /NDF: 38779.3/16

Left: 16.559 $\pm$ 0.002 χ^2 /NDF: 114761.3/34

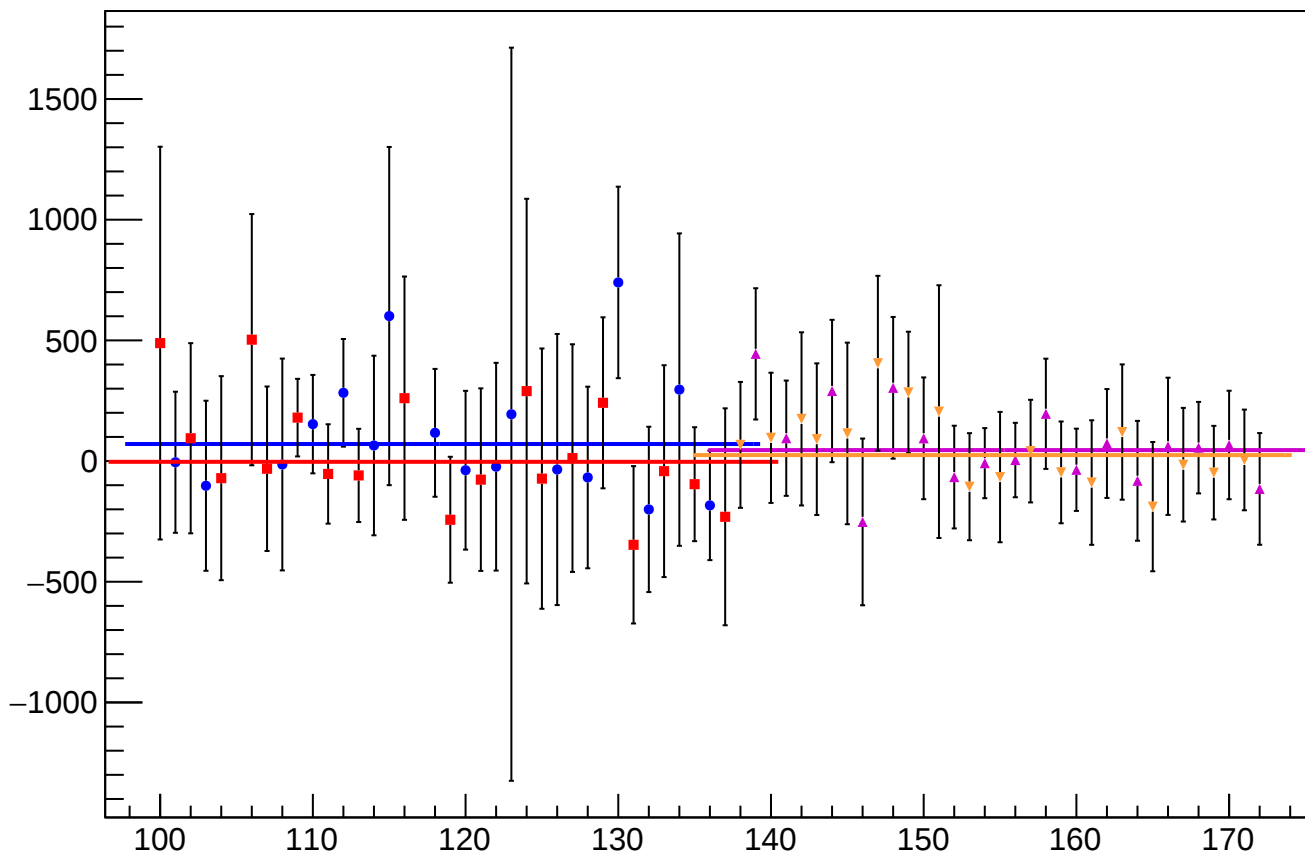
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.836 $\pm$ 0.003 χ^2 /NDF: 105284.0/33

Out: 16.953 $\pm$ 0.003 χ^2 /NDF: 142972.9/36

All: 16.895 $\pm$ 0.002 χ^2 /NDF: 249225.3/70

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: 24.705 $\pm$ 61.030 χ^2 /NDF:4.4/17

Right Out: -3.063 $\pm$ 71.508 χ^2 /NDF: 6.2/18

Left In: 45.488 $\pm$ 52.851 χ^2 /NDF:6.4/16

Left: 36.581 $\pm$ 39.953 χ^2 /NDF: 10.8/34

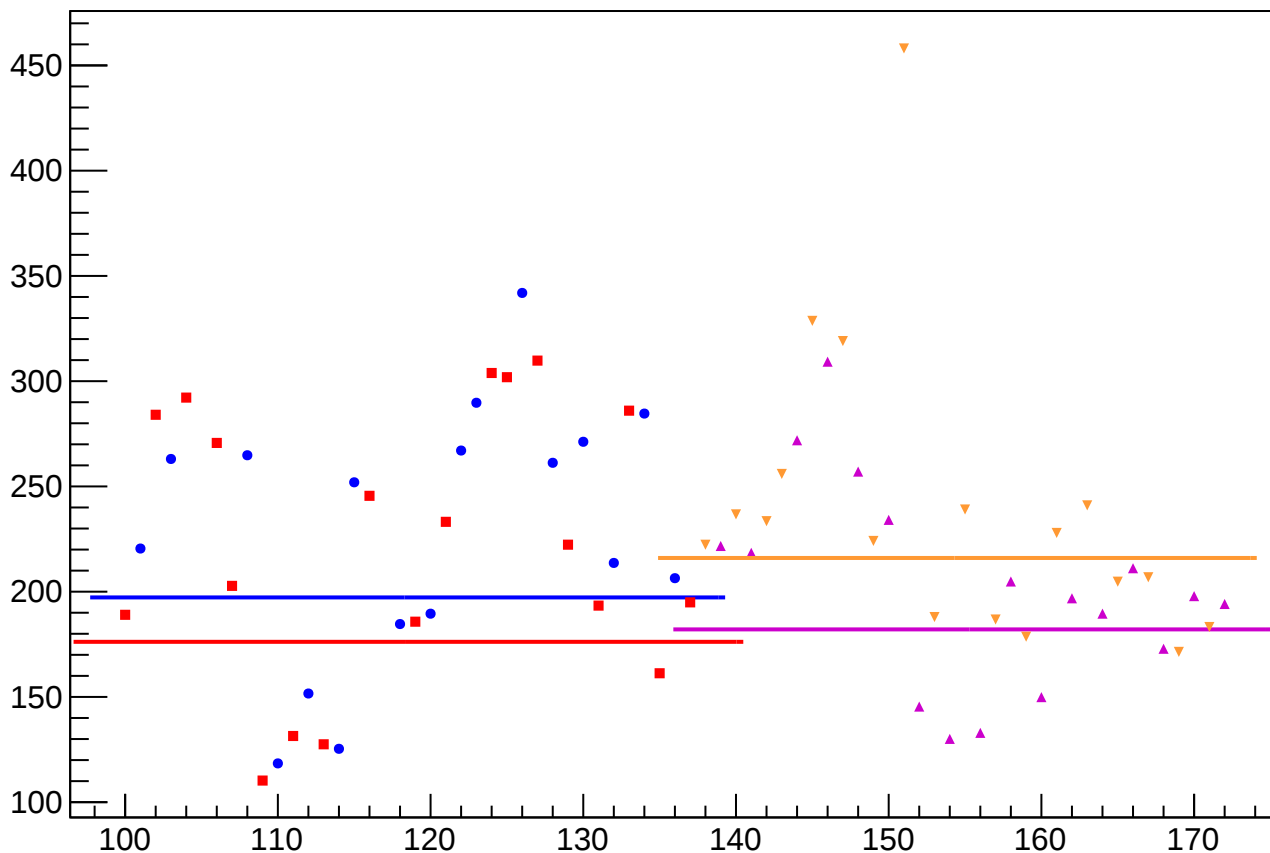
Right: 29.482 $\pm$ 53.435 χ^2 /NDF: 13.8/35

In: 53.074 $\pm$ 44.165 χ^2 /NDF:13.6/33

Out: 13.002 $\pm$ 46.422 χ^2 /NDF:10.6/36

All: 34.036 $\pm$ 31.997 χ^2 /NDF: 24.6/70

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: 216.017+/-0.043 χ^2/NDF :1149943.1/17

Right Out: 176.181+/-0.051 χ^2/NDF : 1519707.5/18

Left In: 182.082+/-0.037 χ^2/NDF :1422758.9/16

Left: 196.625+/-0.028 χ^2/NDF : 2926049.0/34

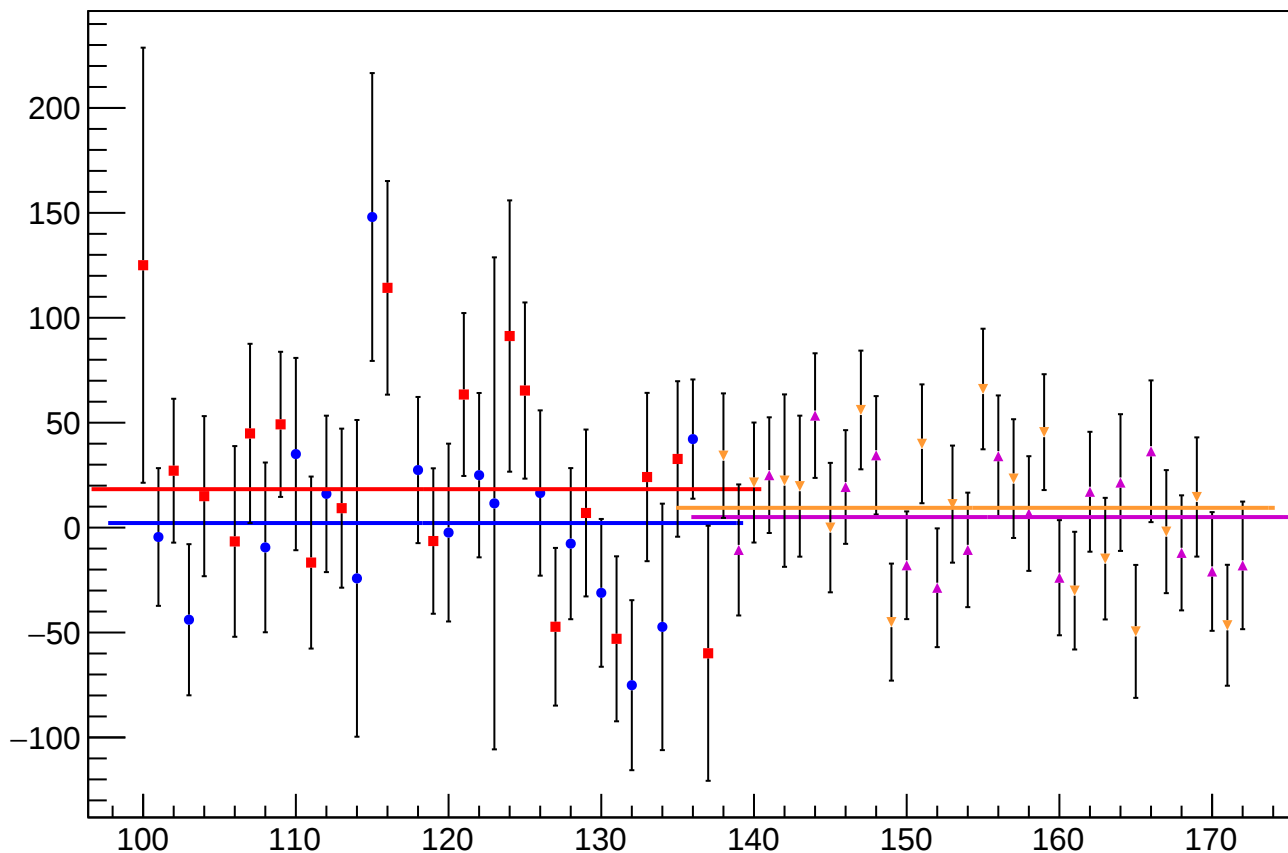
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 186.664+/-0.031 χ^2/NDF :2442143.4/33

Out: 199.228+/-0.033 χ^2/NDF :3028761.1/36

All: 192.634+/-0.023 χ^2/NDF : 5547798.5/70

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 ± 9.825 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 9.424 ± 6.935 $\chi^2/\text{NDF}: 24.8/17$

Right Out: 18.320 ± 9.497 $\chi^2/\text{NDF}: 19.6/18$

Left In: 5.020 ± 6.939 $\chi^2/\text{NDF}: 12.6/16$

Left: 7.223 ± 4.905 $\chi^2/\text{NDF}: 37.5/34$

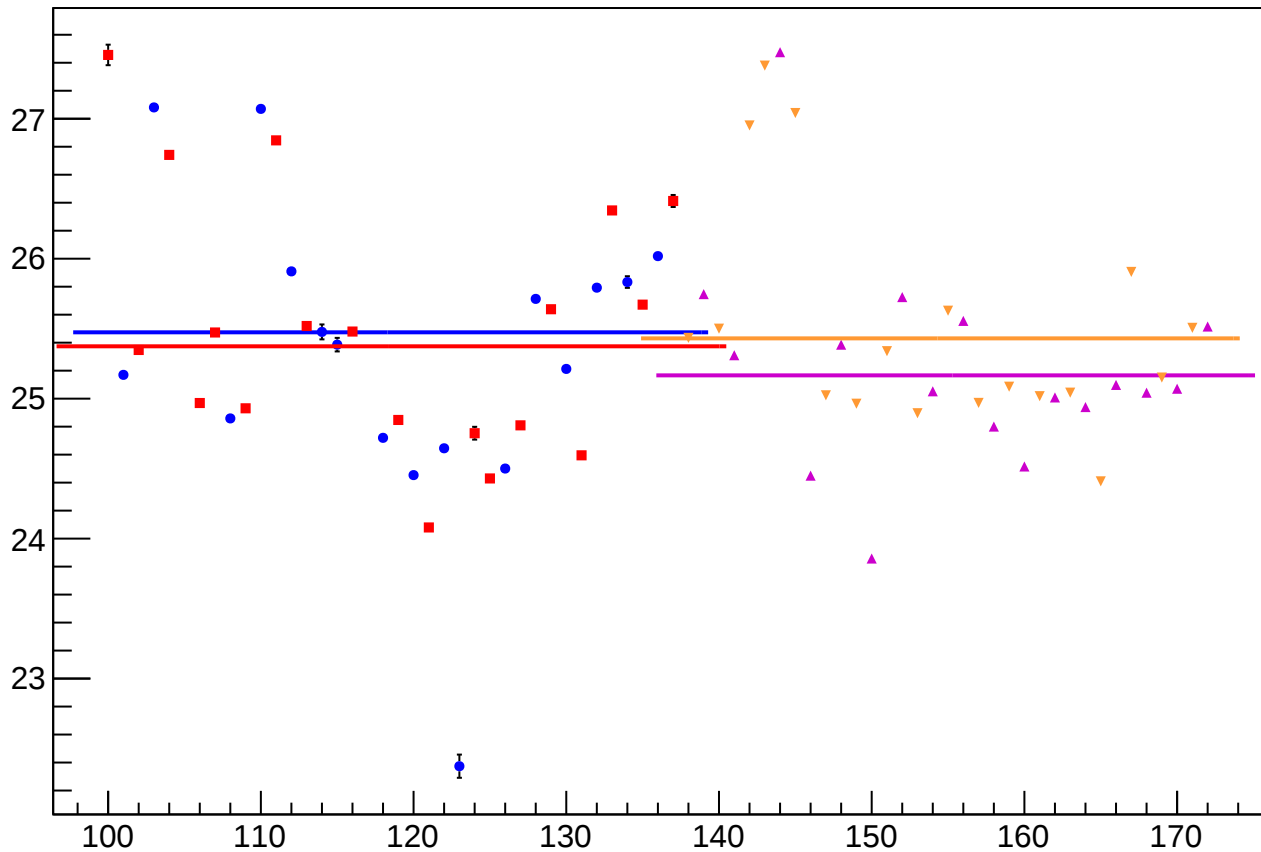
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: 4.074 ± 5.668 $\chi^2/\text{NDF}: 28.0/33$

Out: 12.518 ± 5.601 $\chi^2/\text{NDF}: 44.9/36$

All: 8.346 ± 3.984 $\chi^2/\text{NDF}: 74.1/70$

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: 25.431 $\pm$ 0.005 χ^2 /NDF:21203.6/17

Right Out: 25.374 $\pm$ 0.007 χ^2 /NDF: 13581.2/18

Left In: 25.166 $\pm$ 0.005 χ^2 /NDF:22710.7/16

Left: 25.299 $\pm$ 0.003 χ^2 /NDF: 45366.0/34

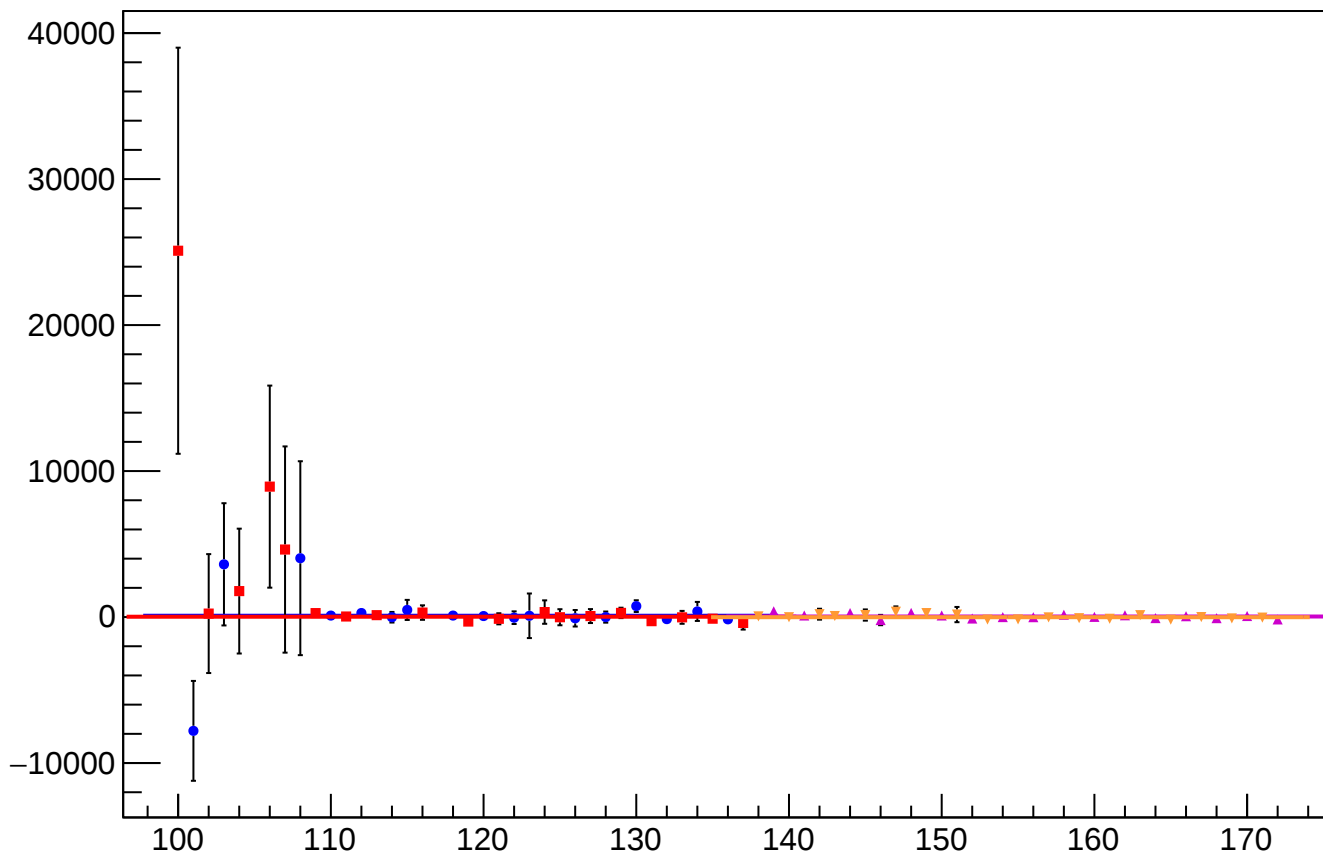
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.269 $\pm$ 0.004 χ^2 /NDF:38079.3/33

Out: 25.411 $\pm$ 0.004 χ^2 /NDF:34831.3/36

All: 25.341 $\pm$ 0.003 χ^2 /NDF: 73548.0/70

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.619+/-87.630 χ^2/NDF : 12.3/16

Left Out: -10.261+/-61.413 χ^2/NDF : 4.8/17

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 37.359+/-53.471 χ^2/NDF : 6.0/16

Left: 16.826+/-40.327 χ^2/NDF : 11.2/34

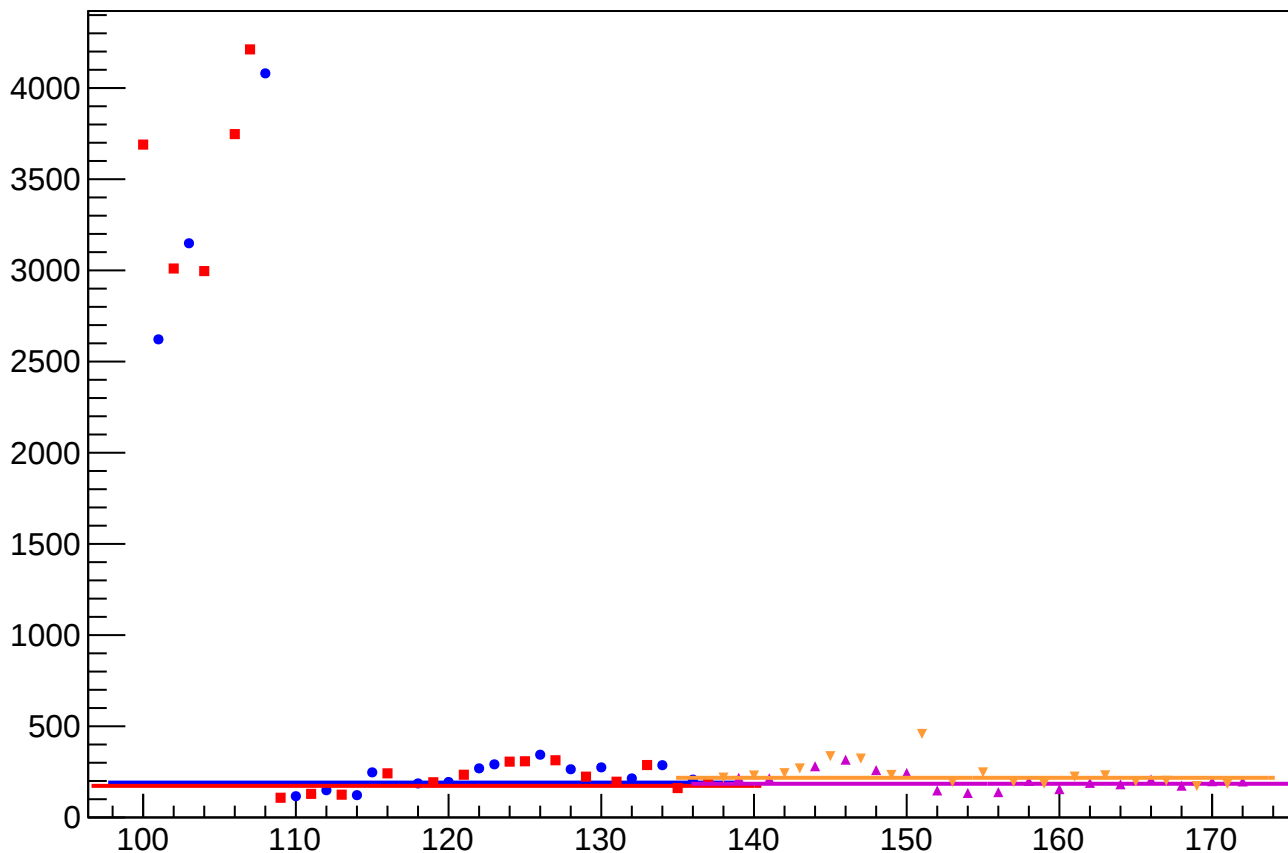
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 51.537+/-45.644 χ^2/NDF : 18.6/33

Out: 1.758+/-48.916 χ^2/NDF : 16.8/36

All: 28.368+/-33.372 χ^2/NDF : 36.0/70

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: 217.474+/-0.043 χ^2/NDF : 1151413.7/17

Right Out: 173.269+/-0.057 χ^2/NDF : 4207191.5/18

Left In: 184.684+/-0.038 χ^2/NDF : 1315971.6/16

Left: 198.823+/-0.029 χ^2/NDF : 2791702.2/34

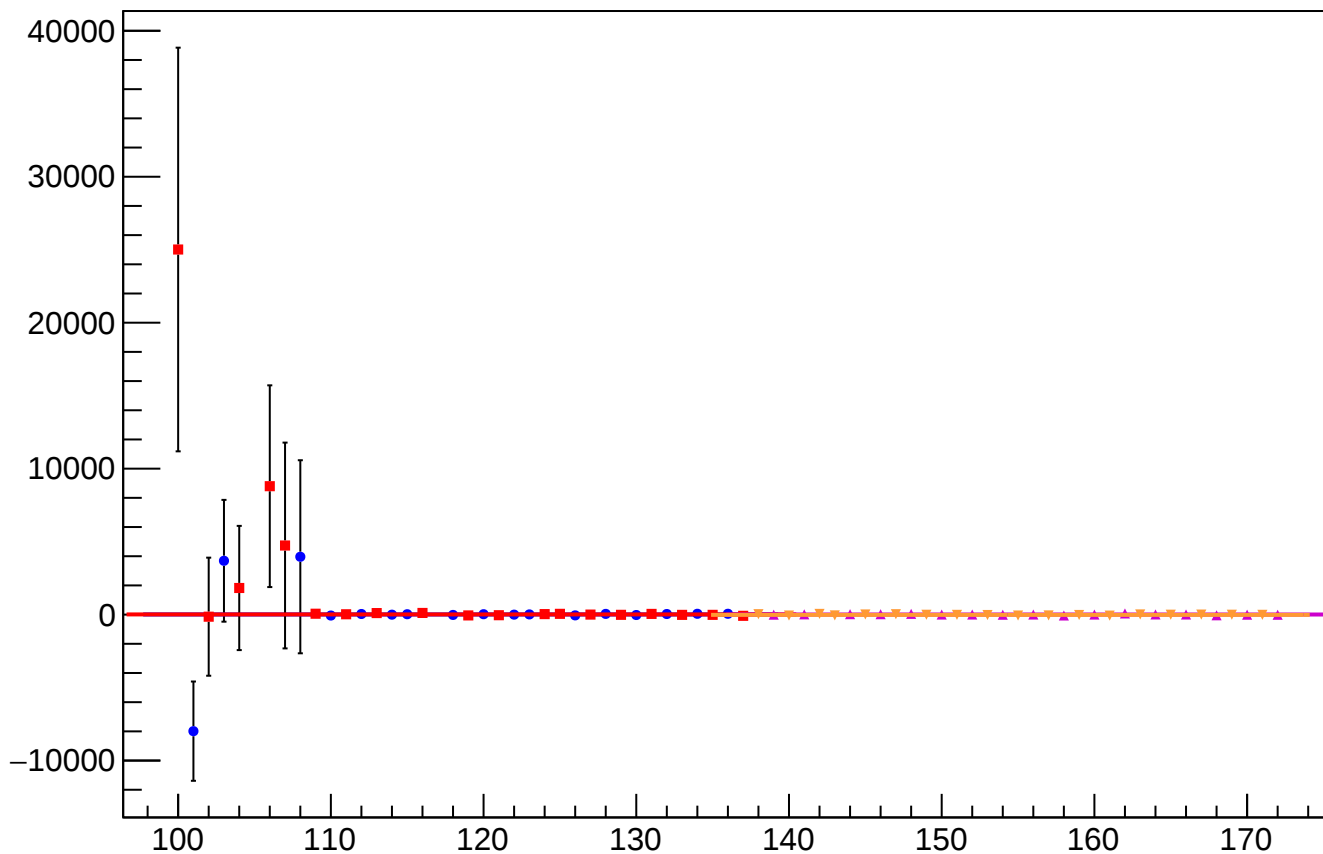
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 186.449+/-0.032 χ^2/NDF : 4895752.9/33

Out: 201.314+/-0.035 χ^2/NDF : 5737430.3/36

All: 193.368+/-0.024 χ^2/NDF : 10731912.4/70

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: -17.626+/-7.893 χ^2/NDF :16.1/17

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 6.653+/-7.964 χ^2/NDF :17.7/16

Left: -5.595+/-5.606 χ^2/NDF : 38.5/34

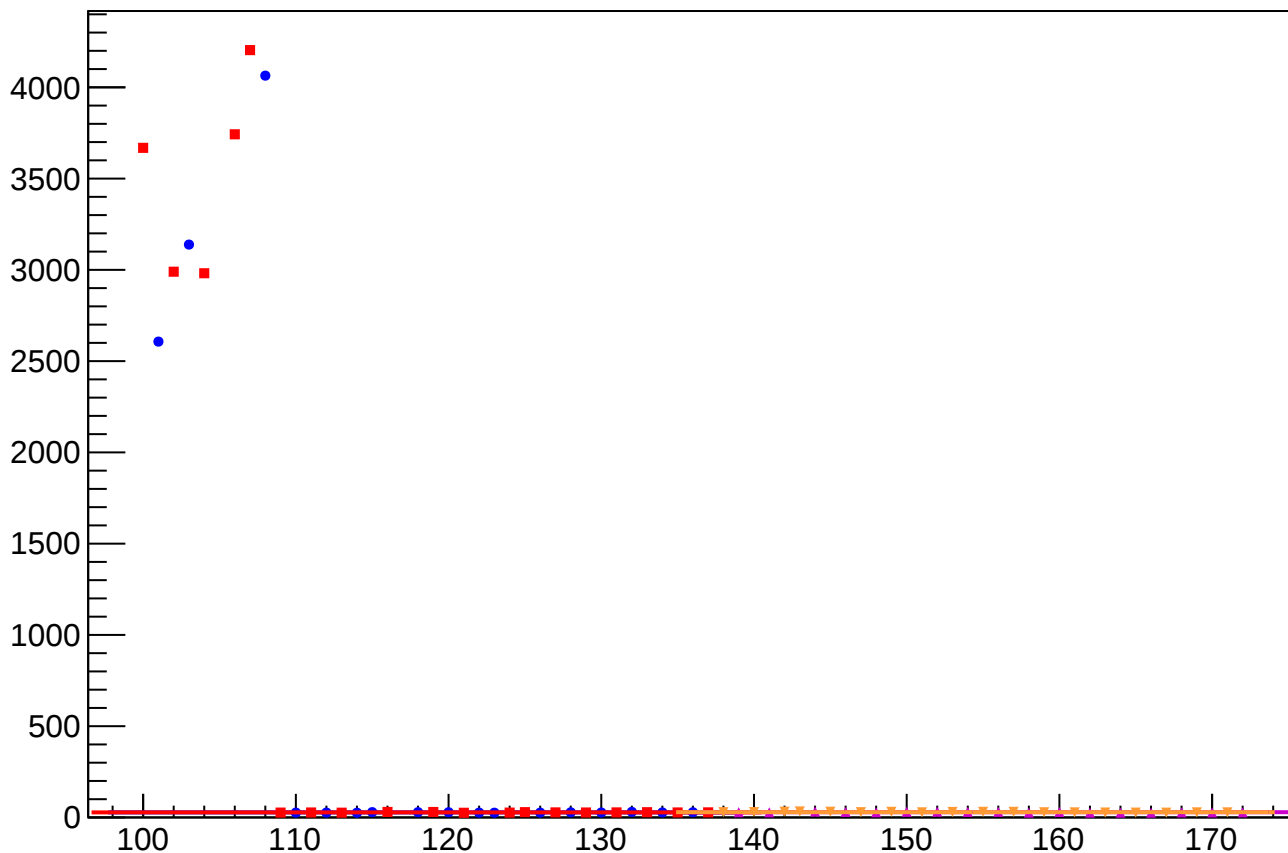
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 7.774+/-6.667 χ^2/NDF :36.0/33

Out: -8.633+/-6.632 χ^2/NDF :45.0/36

All: -0.474+/-4.702 χ^2/NDF : 84.1/70

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: 28.885 $\pm$ 0.006 χ^2 /NDF: 96462.8/17

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 28.811 $\pm$ 0.006 χ^2 /NDF: 111251.4/16

Left: 28.848 $\pm$ 0.004 χ^2 /NDF: 207799.1/34

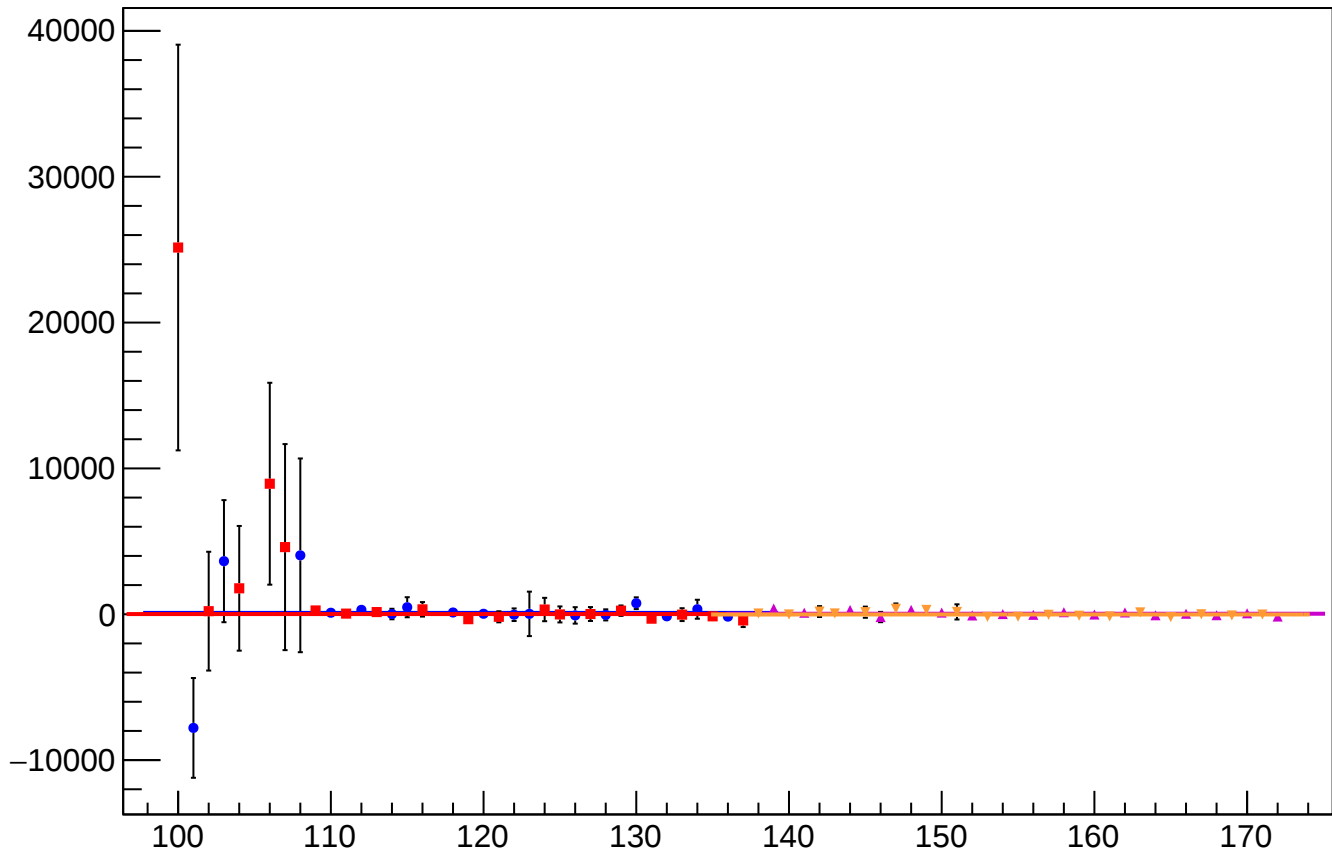
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.520 $\pm$ 0.005 χ^2 /NDF: 3147105.2/33

Out: 28.534 $\pm$ 0.005 χ^2 /NDF: 3586648.6/36

All: 28.527 $\pm$ 0.003 χ^2 /NDF: 6733758.6/70

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: -13.836+/-61.279 χ^2/NDF : 5.5/17

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 36.034+/-53.367 χ^2/NDF : 6.1/16

Left: 14.524+/-40.244 χ^2/NDF : 11.9/34

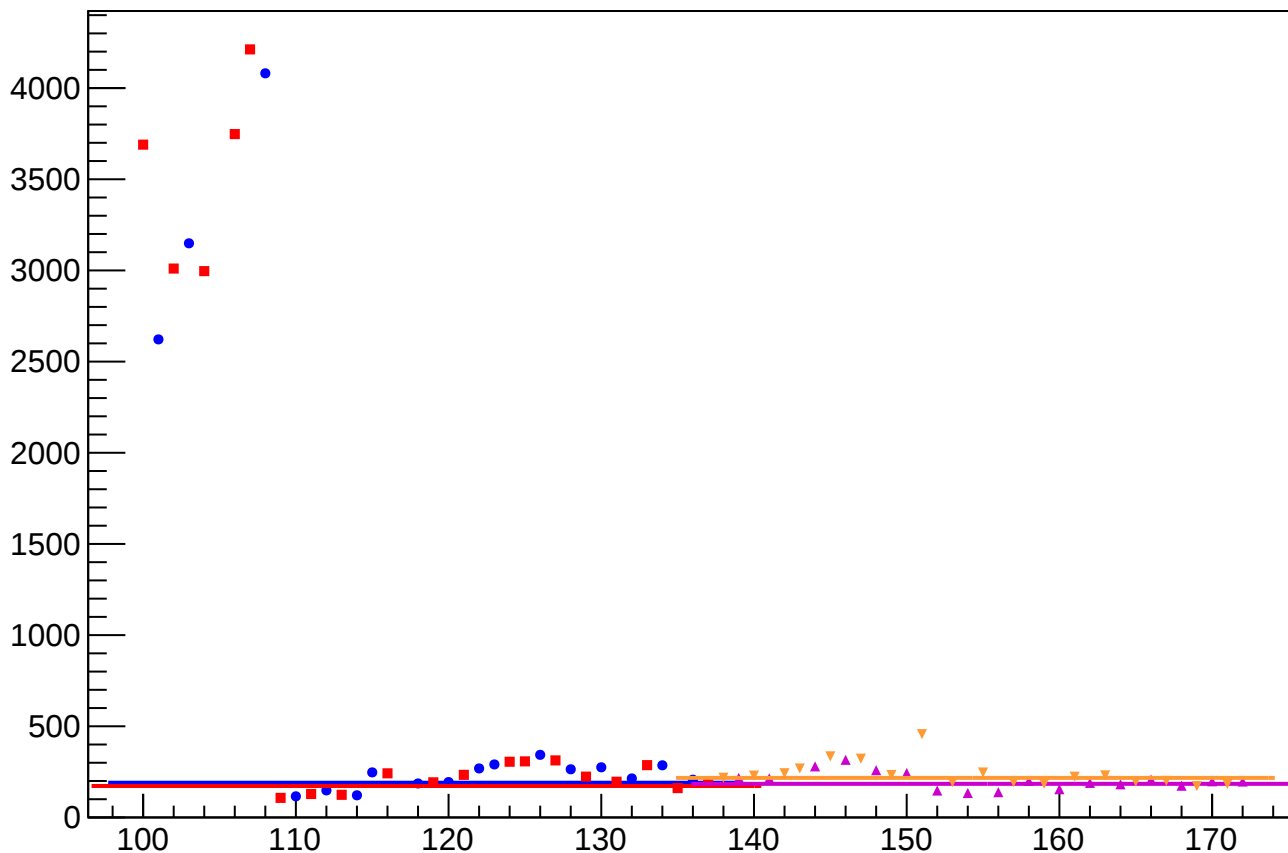
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 51.472+/-45.541 χ^2/NDF : 19.0/33

Out: -4.096+/-48.790 χ^2/NDF : 18.2/36

All: 25.600+/-33.292 χ^2/NDF : 37.9/70

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: 217.002+/-0.043 χ^2/NDF :1151234.9/17

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 184.327+/-0.038 χ^2/NDF :1315732.8/16

Left: 198.420+/-0.028 χ^2/NDF : 2790355.7/34

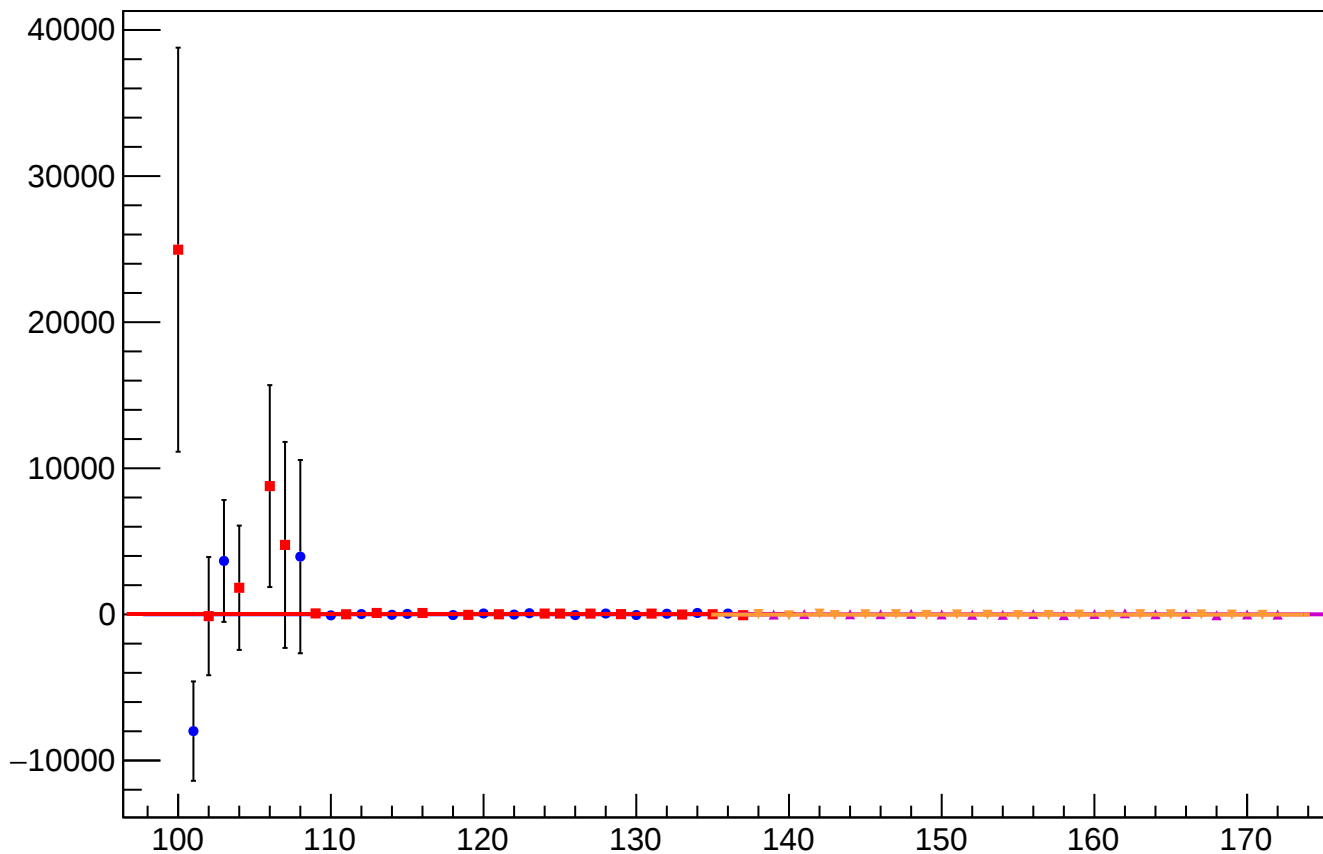
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 186.001+/-0.032 χ^2/NDF :4906543.9/33

Out: 200.749+/-0.034 χ^2/NDF :5753993.6/36

All: 192.867+/-0.024 χ^2/NDF : 10758193.8/70

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.600+/-12.273 χ^2/NDF : 23.2/16

Left Out: -14.820+/-7.947 χ^2/NDF :10.9/17

Right Out: 29.627+/-12.328 χ^2/NDF : 16.5/18

Left In: 5.602+/-8.011 χ^2/NDF :17.7/16

Left: -4.691+/-5.642 χ^2/NDF : 31.9/34

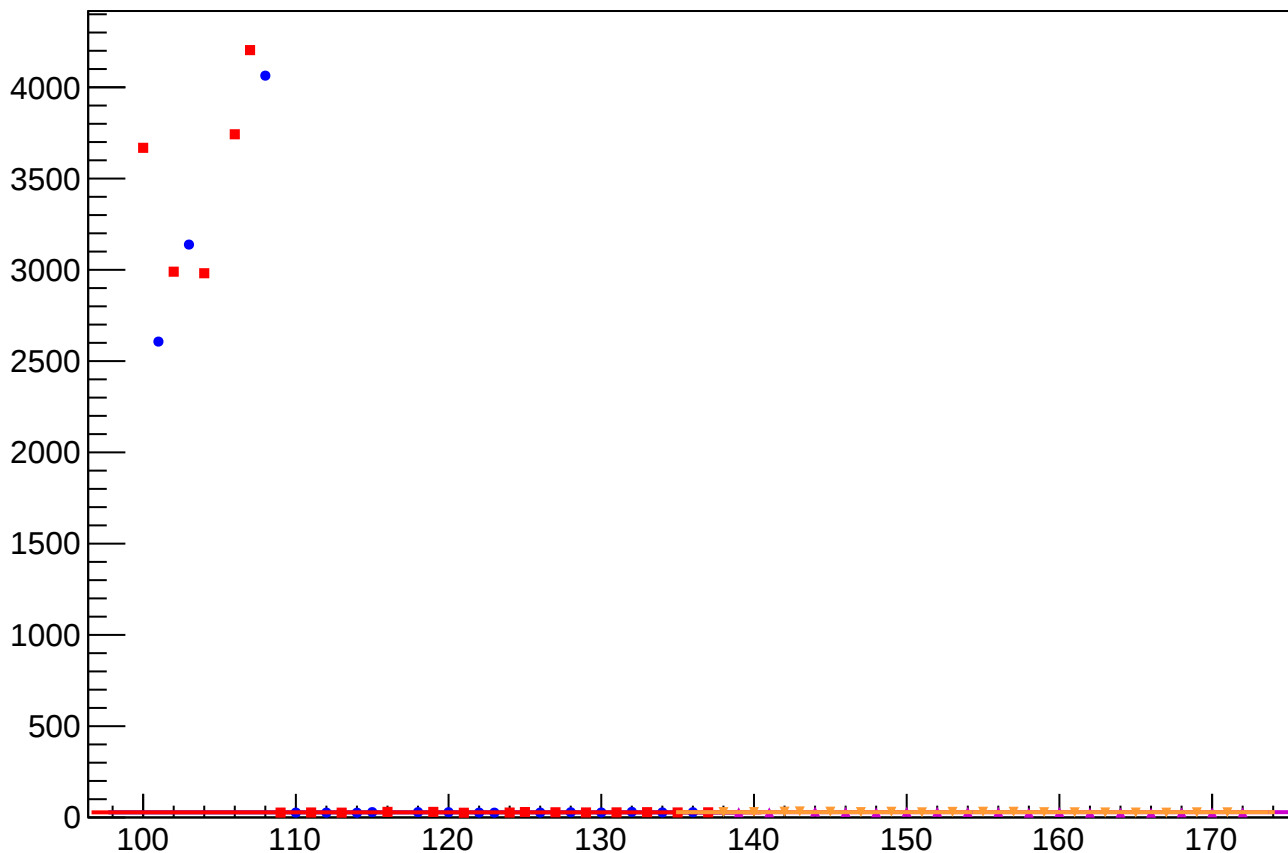
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 6.796+/-6.709 χ^2/NDF :41.0/33

Out: -1.772+/-6.680 χ^2/NDF :36.6/36

All: 2.494+/-4.733 χ^2/NDF : 78.4/70

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023+/-0.009 χ^2/NDF : 3027003.0/16

Left Out: 29.078+/-0.006 χ^2/NDF : 102262.6/17

Right Out: 27.917+/-0.009 χ^2/NDF : 3479610.6/18

Left In: 28.984+/-0.006 χ^2/NDF : 112278.6/16

Left: 29.031+/-0.004 χ^2/NDF : 214678.3/34

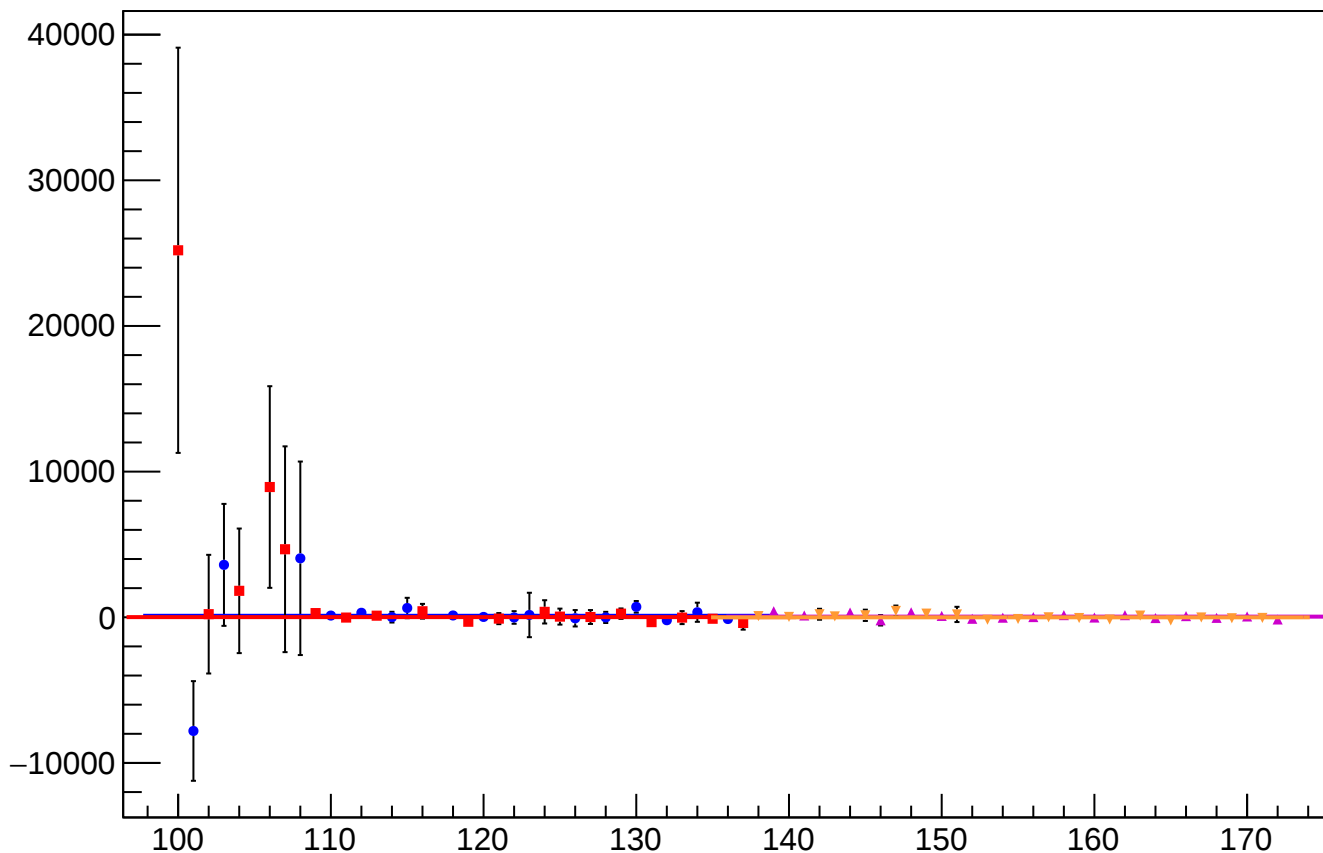
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.697+/-0.005 χ^2/NDF : 3147887.9/33

Out: 28.737+/-0.005 χ^2/NDF : 3594397.9/36

All: 28.717+/-0.003 χ^2/NDF : 6742321.4/70

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: -3.248 $\pm$ 62.012 χ^2 /NDF:5.2/17

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 43.825 $\pm$ 54.116 χ^2 /NDF:6.7/16

Left: 23.475 $\pm$ 40.774 χ^2 /NDF: 12.2/34

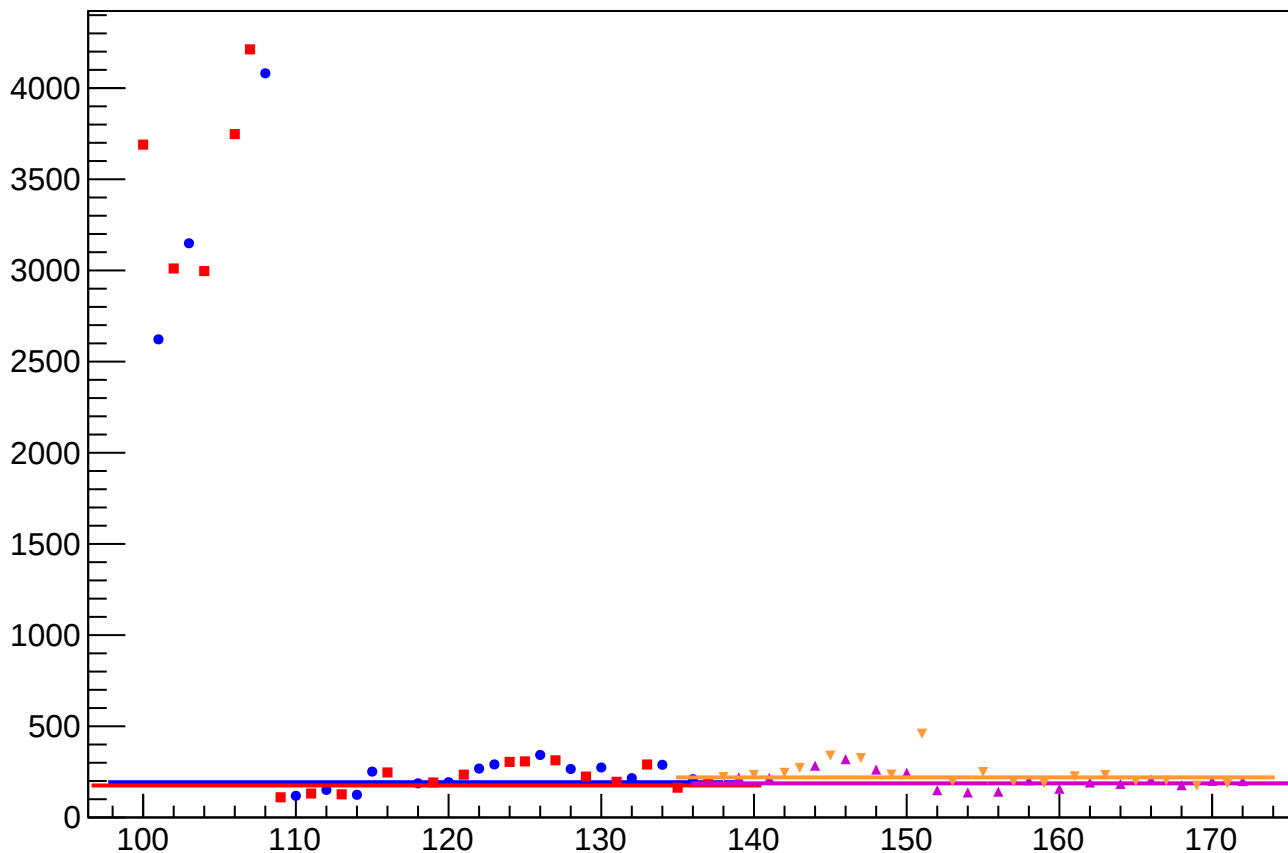
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 59.624 $\pm$ 46.153 χ^2 /NDF:19.4/33

Out: 2.041 $\pm$ 49.401 χ^2 /NDF:17.5/36

All: 32.788 $\pm$ 33.725 χ^2 /NDF: 37.5/70

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: 219.711+/-0.044 χ^2/NDF : 1137782.6/17

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 187.090+/-0.038 χ^2/NDF : 1286184.6/16

Left: 201.192+/-0.029 χ^2/NDF : 2738151.8/34

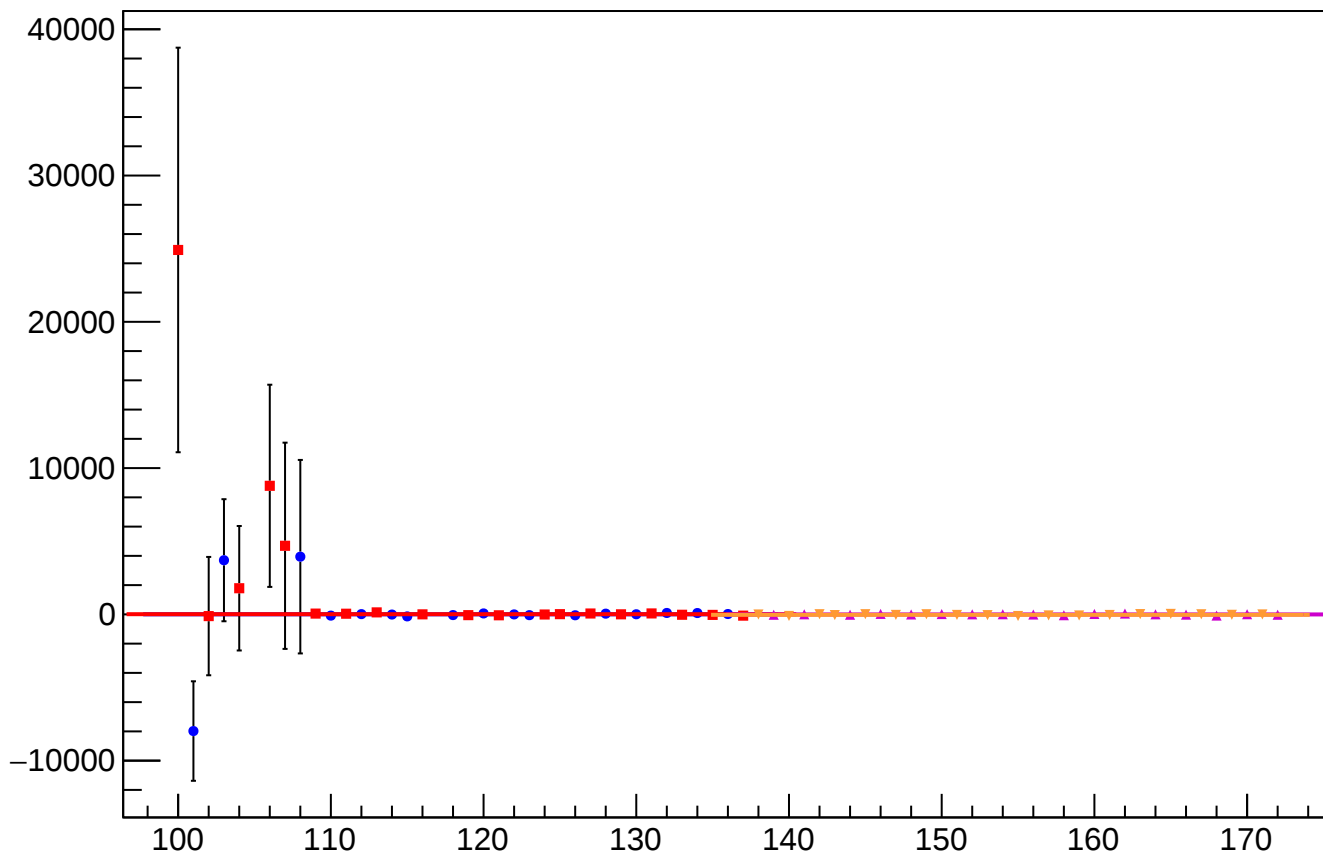
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 188.753+/-0.033 χ^2/NDF : 4829237.6/33

Out: 203.552+/-0.035 χ^2/NDF : 5674844.9/36

All: 195.650+/-0.024 χ^2/NDF : 10599921.8/70

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651 $\pm$ 14.935 χ^2 /NDF: 20.4/16

Left Out: -30.602 $\pm$ 9.469 χ^2 /NDF:18.8/17

Right Out: 12.487 $\pm$ 14.947 χ^2 /NDF: 21.7/18

Left In: -3.851 $\pm$ 9.573 χ^2 /NDF:12.2/16

Left: -17.373 $\pm$ 6.732 χ^2 /NDF: 35.0/34

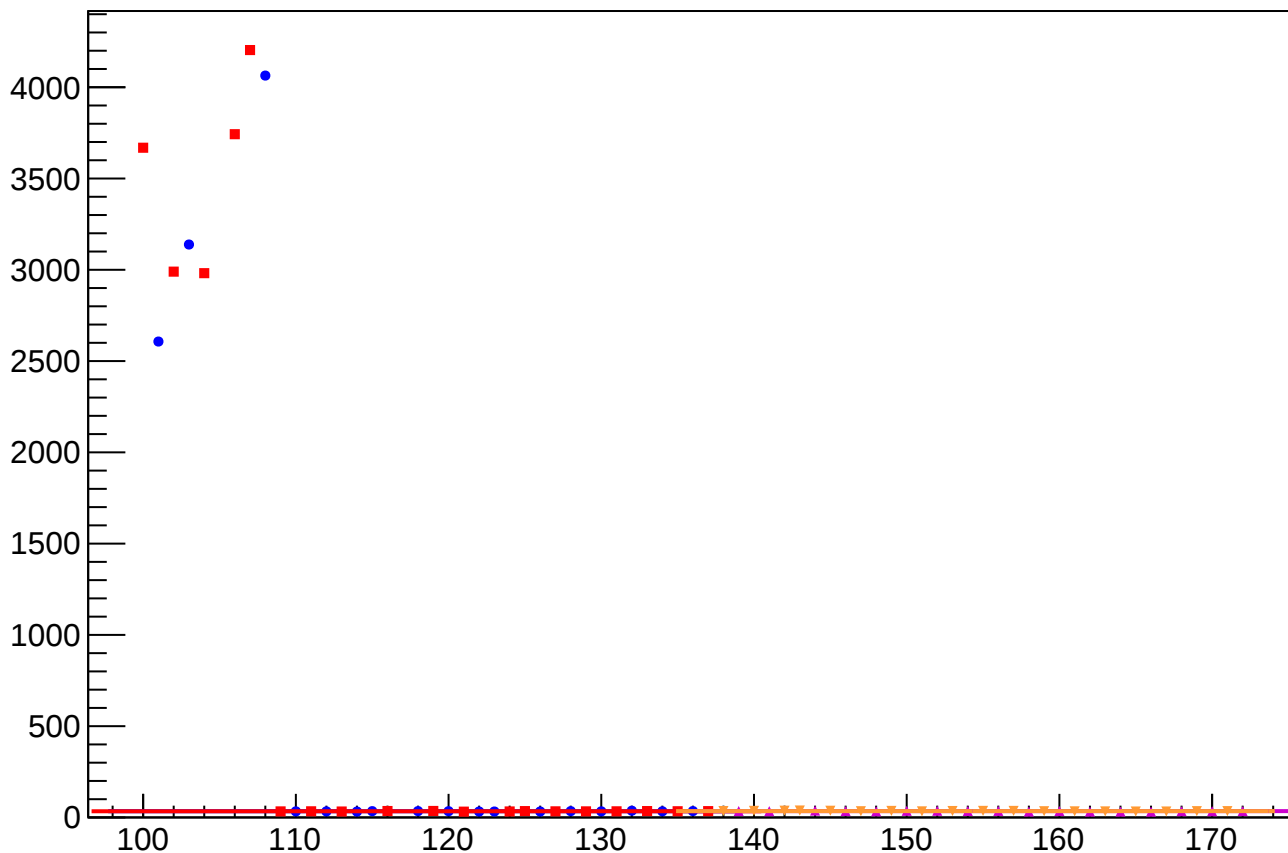
Right: 8.566 $\pm$ 10.565 χ^2 /NDF: 42.2/35

In: -1.375 $\pm$ 8.059 χ^2 /NDF:32.8/33

Out: -18.263 $\pm$ 7.999 χ^2 /NDF:46.4/36

All: -9.883 $\pm$ 5.677 χ^2 /NDF: 81.5/70

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: 34.704 $\pm$ 0.007 χ^2 /NDF: 46794.9/17

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.697 $\pm$ 0.007 χ^2 /NDF: 51757.2/16

Left: 34.701 $\pm$ 0.005 χ^2 /NDF: 98552.6/34

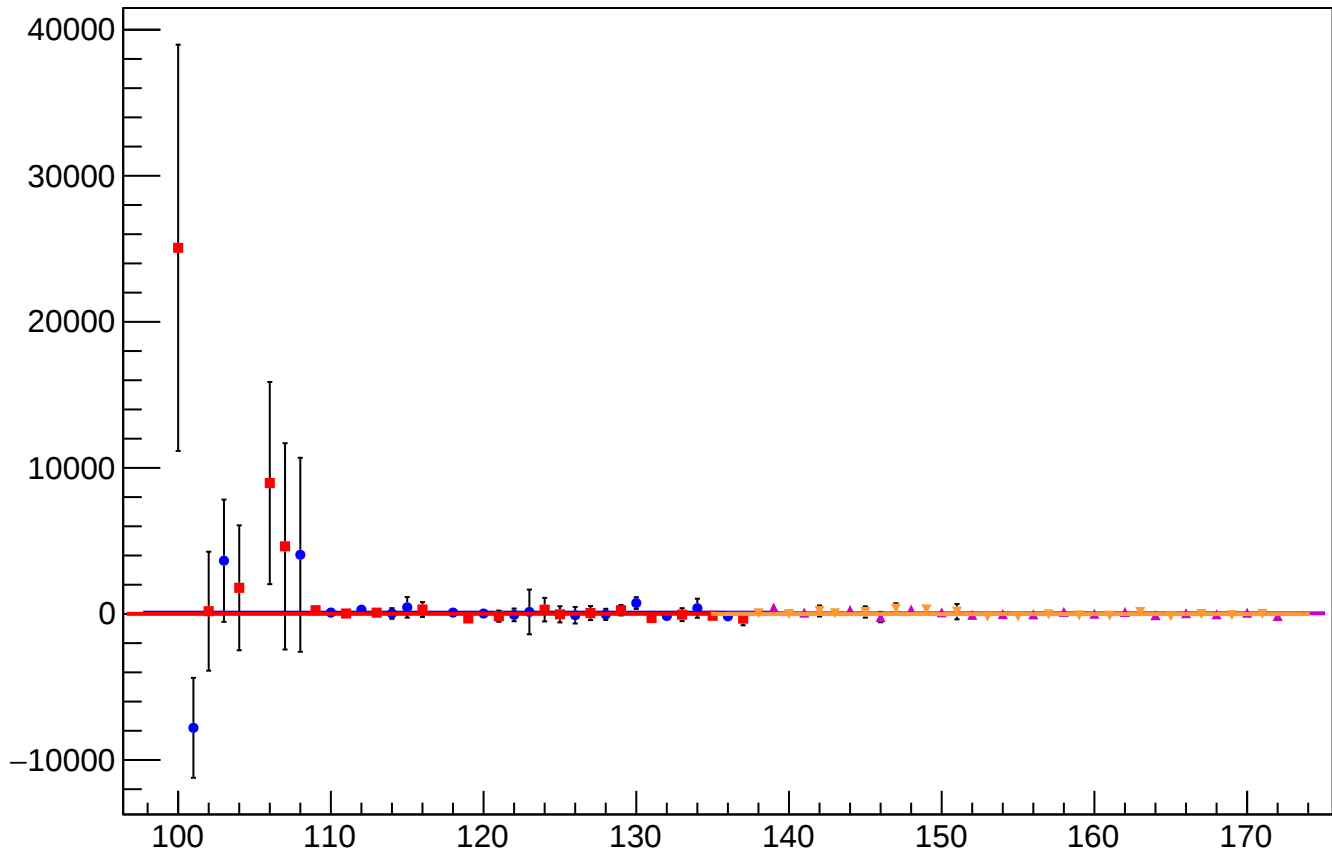
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.534 $\pm$ 0.006 χ^2 /NDF: 3059998.7/33

Out: 34.477 $\pm$ 0.006 χ^2 /NDF: 3502685.6/36

All: 34.506 $\pm$ 0.004 χ^2 /NDF: 6562734.5/70

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: -9.845 $\pm$ 61.888 χ^2 /NDF:5.3/17

Right Out: 7.296 $\pm$ 81.208 χ^2 /NDF: 11.1/18

Left In: 44.854 $\pm$ 53.976 χ^2 /NDF:6.0/16

Left: 21.222 $\pm$ 40.678 χ^2 /NDF: 11.7/34

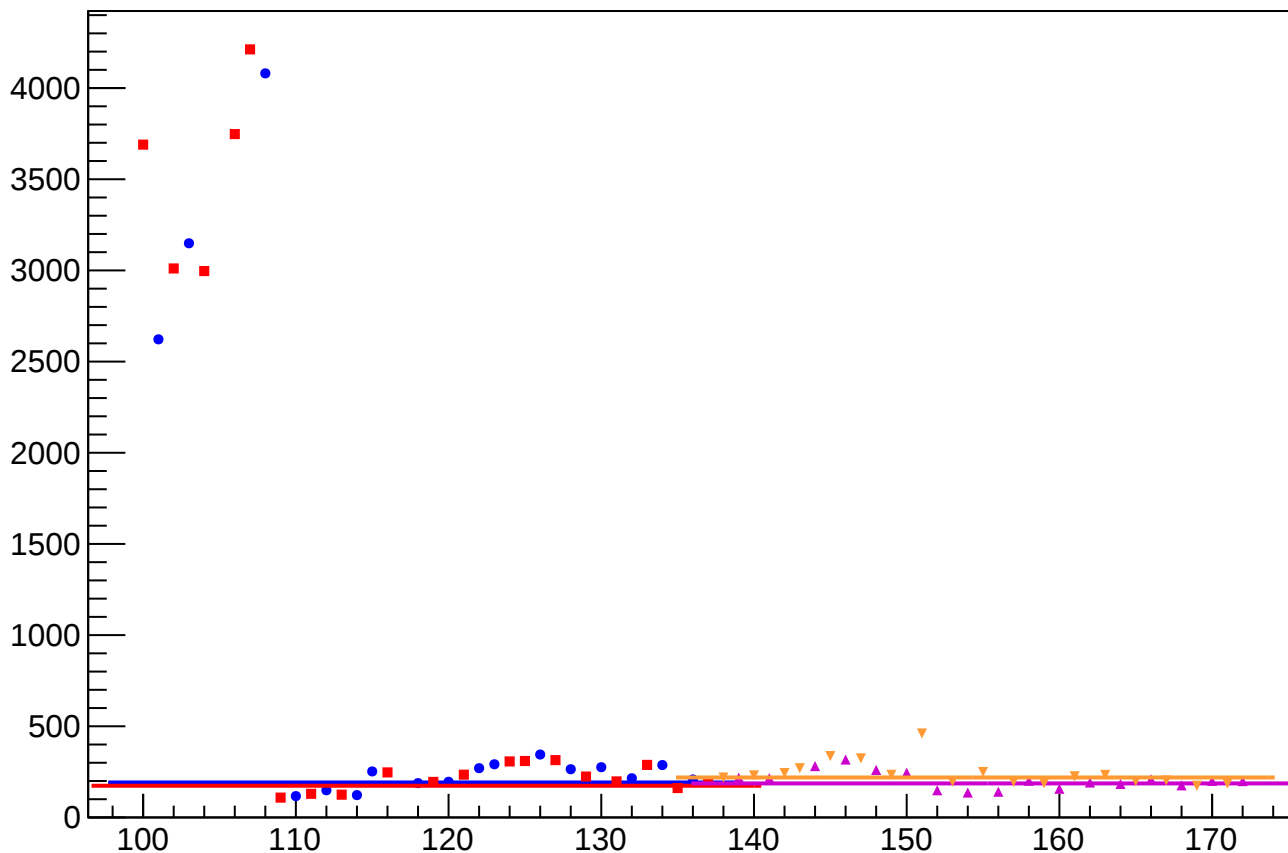
Right: 43.536 $\pm$ 59.663 χ^2 /NDF: 23.9/35

In: 56.123 $\pm$ 46.003 χ^2 /NDF:18.6/33

Out: -3.547 $\pm$ 49.223 χ^2 /NDF:16.4/36

All: 28.303 $\pm$ 33.610 χ^2 /NDF: 35.7/70

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: 219.287+/-0.044 χ^2/NDF : 1128783.9/17

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 186.612+/-0.038 χ^2/NDF : 1274415.3/16

Left: 200.729+/-0.029 χ^2/NDF : 2719834.4/34

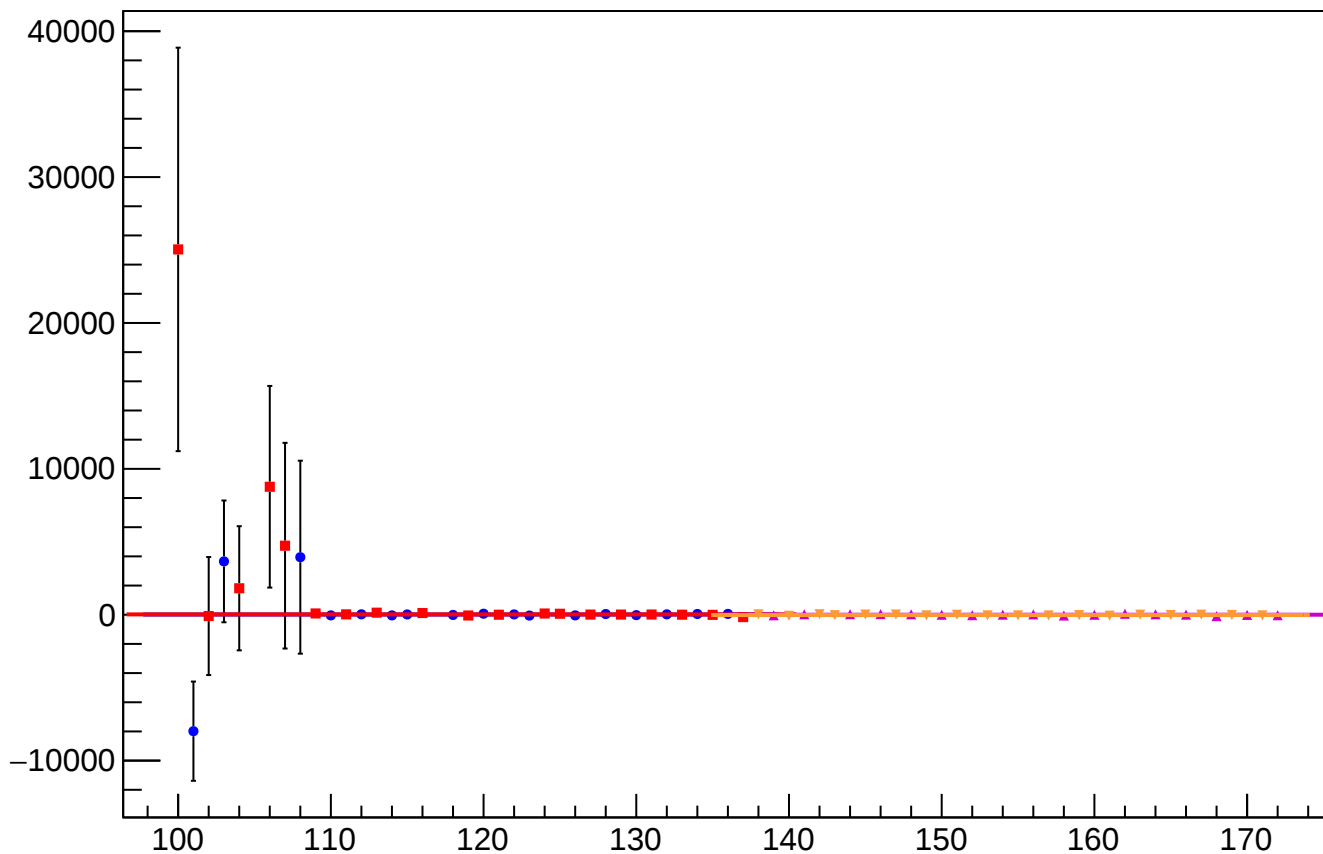
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 188.054+/-0.033 χ^2/NDF : 4852687.5/33

Out: 202.622+/-0.035 χ^2/NDF : 5734888.9/36

All: 194.846+/-0.024 χ^2/NDF : 10681086.7/70

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: -21.720+/-8.581 χ^2/NDF :12.1/17

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: 0.636+/-8.646 χ^2/NDF :22.9/16

Left: -10.625+/-6.090 χ^2/NDF : 38.3/34

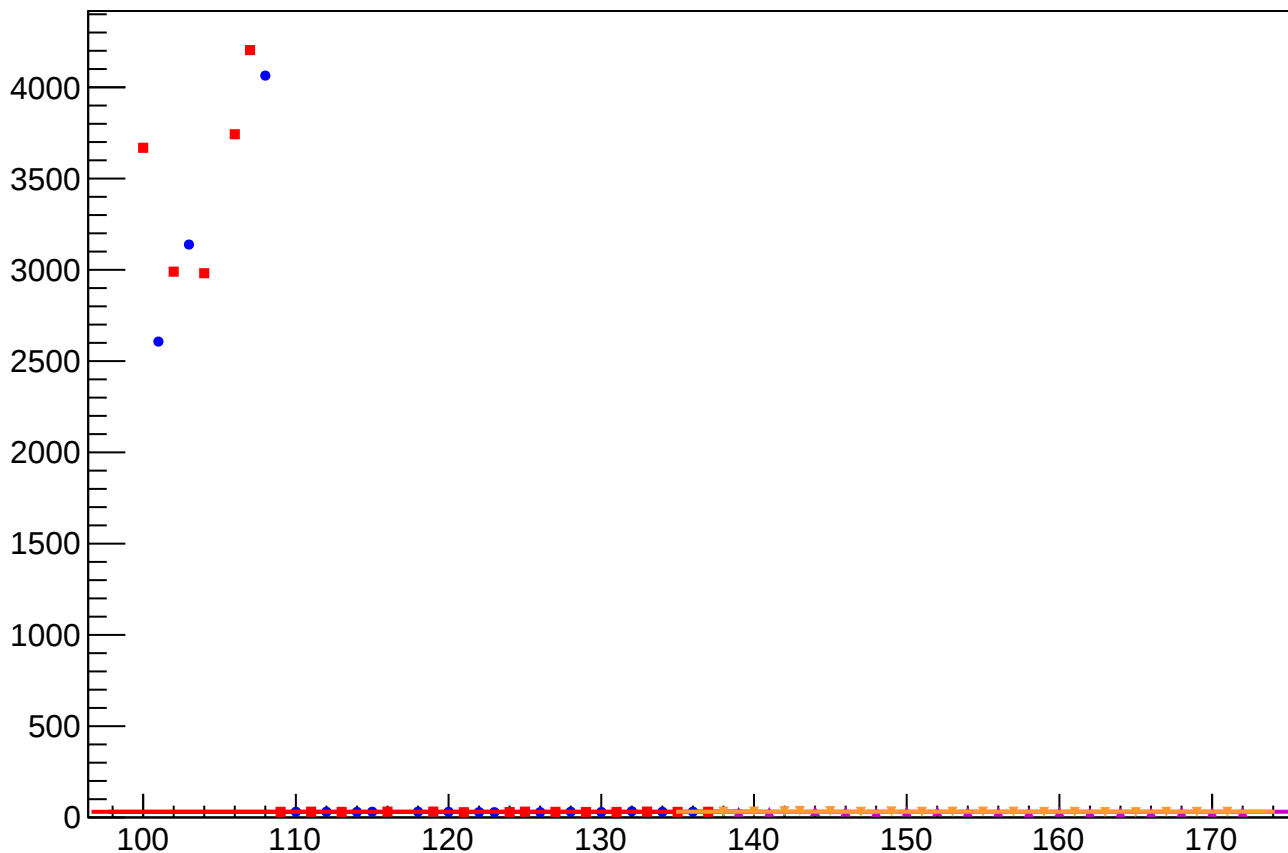
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 4.510+/-7.299 χ^2/NDF :38.8/33

Out: -8.954+/-7.266 χ^2/NDF :47.4/36

All: -2.252+/-5.149 χ^2/NDF : 87.8/70

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127+/-0.010 χ^2/NDF : 3014425.9/16

Left Out: 31.421+/-0.006 χ^2/NDF : 73228.1/17

Right Out: 30.963+/-0.010 χ^2/NDF : 3458945.1/18

Left In: 31.294+/-0.006 χ^2/NDF : 81382.8/16

Left: 31.358+/-0.004 χ^2/NDF : 154827.5/34

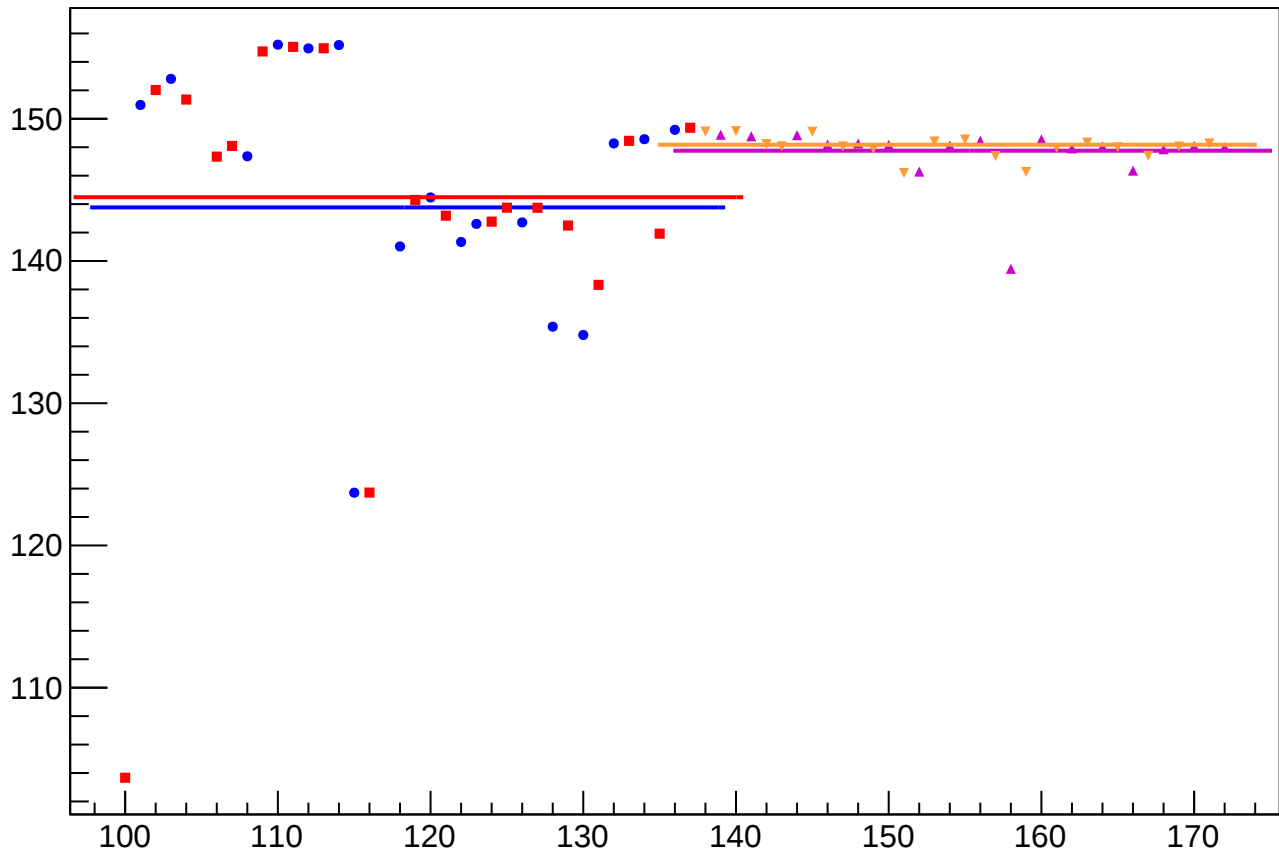
Right: 31.045+/-0.007 χ^2/NDF : 6473514.9/35

In: 31.246+/-0.005 χ^2/NDF : 3096024.4/33

Out: 31.291+/-0.005 χ^2/NDF : 3533784.8/36

All: 31.269+/-0.004 χ^2/NDF : 6629847.8/70

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768+/-0.000 χ^2/NDF : 3532173868.5/16

Left Out: 148.175+/-0.000 χ^2/NDF : 52525620.9/17

Right Out: 144.486+/-0.000 χ^2/NDF : 4183608291.3/18

Left In: 147.756+/-0.000 χ^2/NDF : 324587895.7/16

Left: 147.971+/-0.000 χ^2/NDF : 383655721.8/34

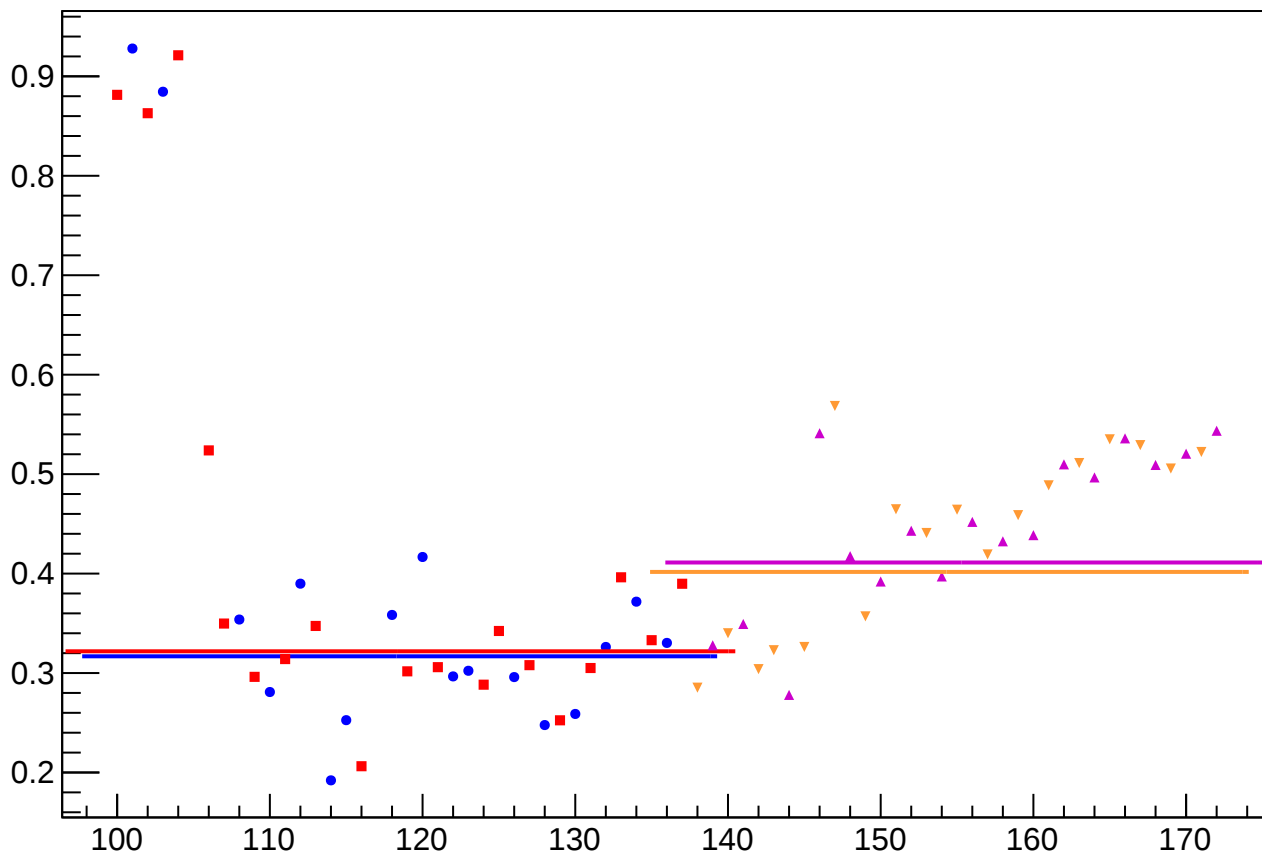
Right: 144.130+/-0.000 χ^2/NDF : 7730221597.0/35

In: 146.023+/-0.000 χ^2/NDF : 4357149273.1/33

Out: 146.609+/-0.000 χ^2/NDF : 4679289496.6/36

All: 146.322+/-0.000 χ^2/NDF : 9058844817.2

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.402 $\pm$ 0.000 χ^2 /NDF:1196937.6/17

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.411 $\pm$ 0.000 χ^2 /NDF:1004803.8/16

Left: 0.406 $\pm$ 0.000 χ^2 /NDF: 2208429.0/34

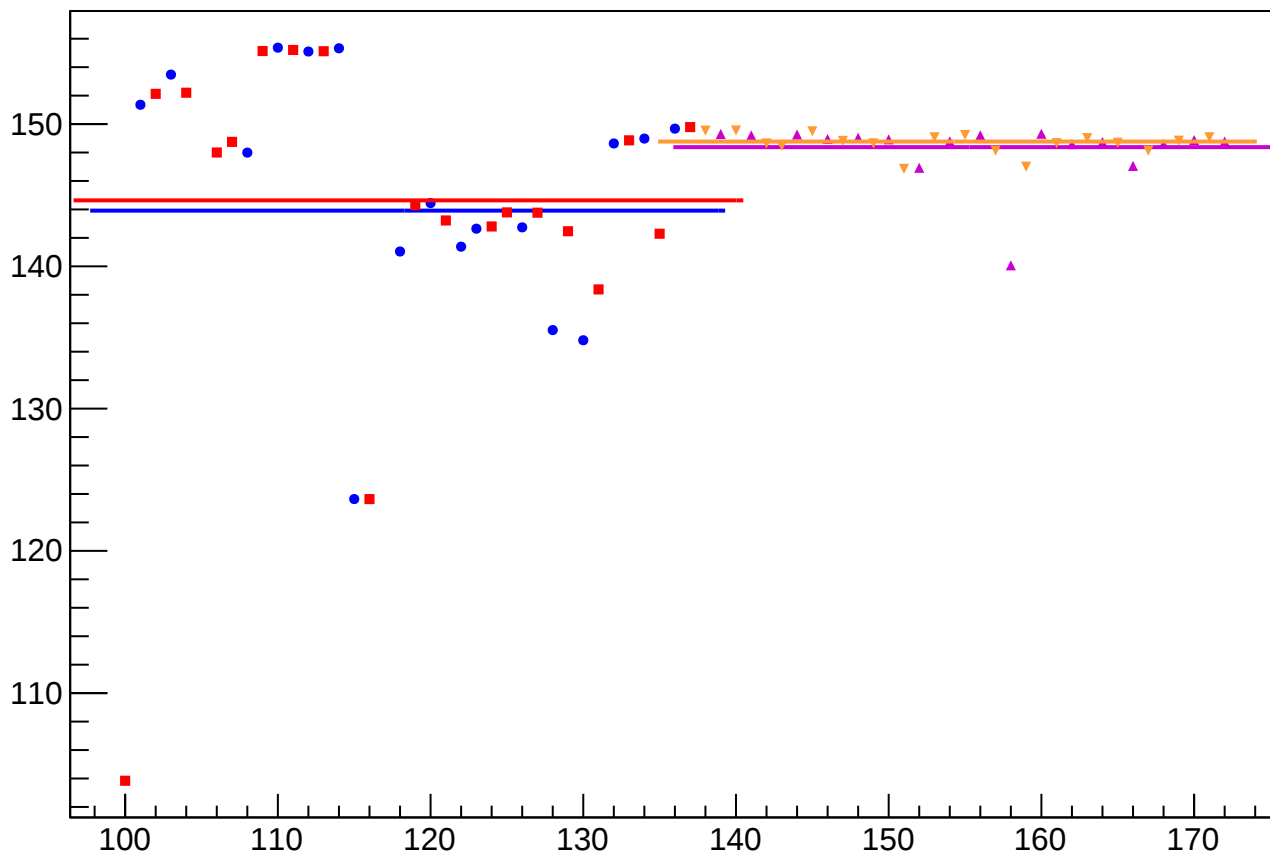
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.370 $\pm$ 0.000 χ^2 /NDF:2843545.2/33

Out: 0.368 $\pm$ 0.000 χ^2 /NDF:2829548.4/36

All: 0.369 $\pm$ 0.000 χ^2 /NDF: 5673823.5/70

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000 χ^2 /NDF: 3584662767.5/16

Left Out: 148.771 $\pm$ 0.000 χ^2 /NDF: 41226145.3/17

Right Out: 144.637 $\pm$ 0.000 χ^2 /NDF: 4210524953.9/18

Left In: 148.379 $\pm$ 0.000 χ^2 /NDF: 314340531.9/16

Left: 148.580 $\pm$ 0.000 χ^2 /NDF: 361179981.5/34

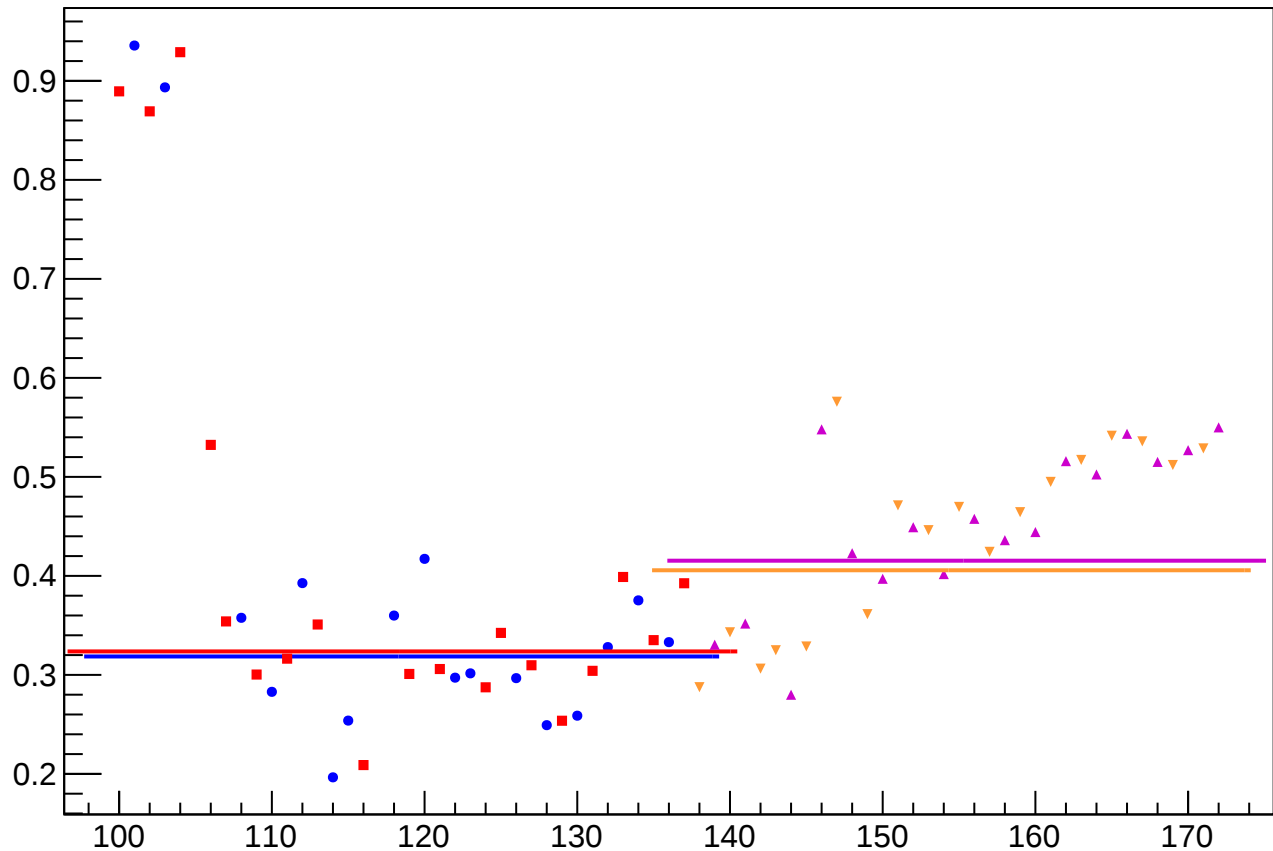
Right: 144.280 $\pm$ 0.000 χ^2 /NDF: 7809567994.8/35

In: 146.429 $\pm$ 0.000 χ^2 /NDF: 4515913725.3/33

Out: 147.007 $\pm$ 0.000 χ^2 /NDF: 4799738241.6/36

All: 146.724 $\pm$ 0.000 χ^2 /NDF: 9337096668.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.406+/-0.000 χ^2/NDF :1218895.3/17

Right Out: 0.324+/-0.000 χ^2/NDF : 1220898.3/18

Left In: 0.415+/-0.000 χ^2/NDF :1024026.7/16

Left: 0.410+/-0.000 χ^2/NDF : 2249751.6/34

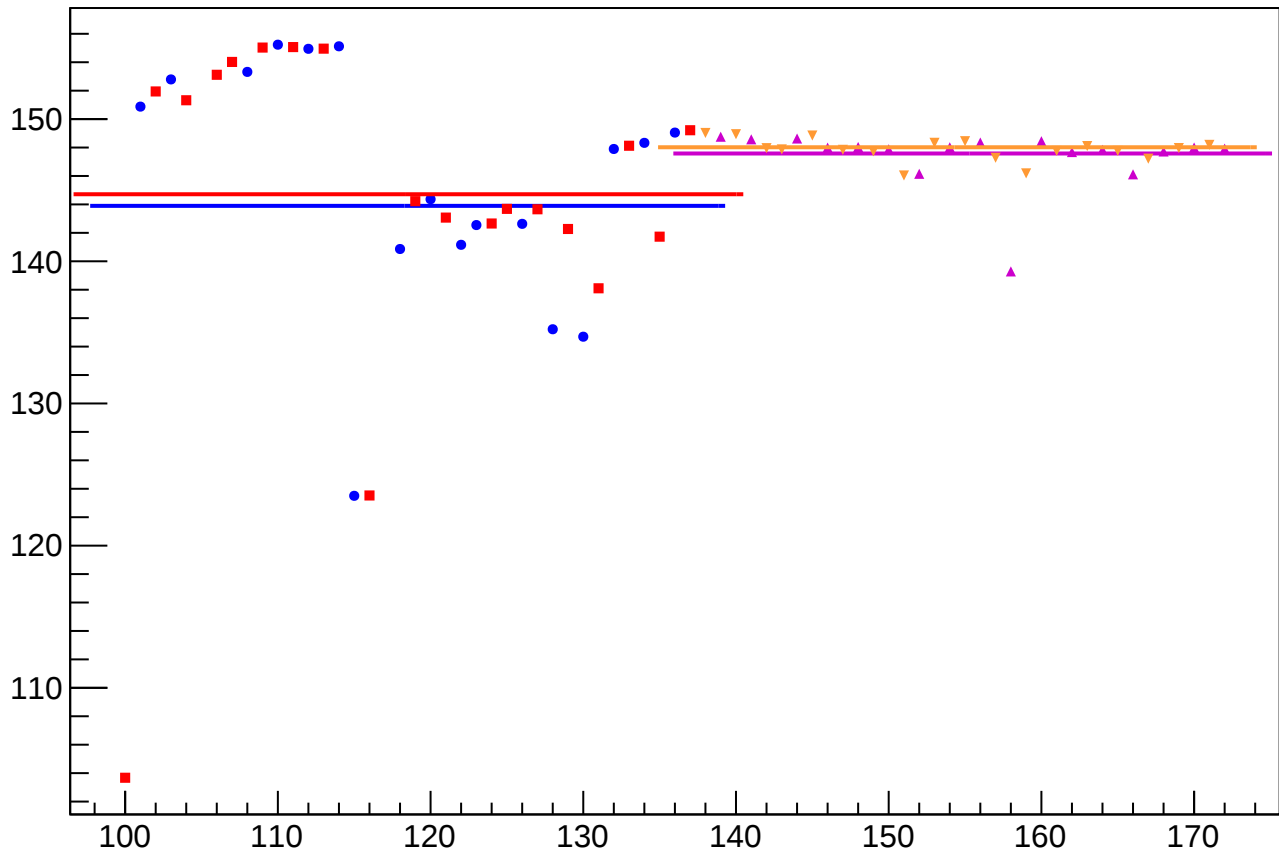
Right: 0.321+/-0.000 χ^2/NDF : 2503090.8/35

In: 0.373+/-0.000 χ^2/NDF :2884800.7/33

Out: 0.371+/-0.000 χ^2/NDF :2870631.6/36

All: 0.372+/-0.000 χ^2/NDF : 5756159.2/70

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 148.019 $\pm$ 0.000 χ^2 /NDF: 51014332.3/17

Right Out: 144.715 $\pm$ 0.000 χ^2 /NDF: 4474458988.7/18

Left In: 147.581 $\pm$ 0.000 χ^2 /NDF: 323803215.8/16

Left: 147.806 $\pm$ 0.000 χ^2 /NDF: 381925379.1/34

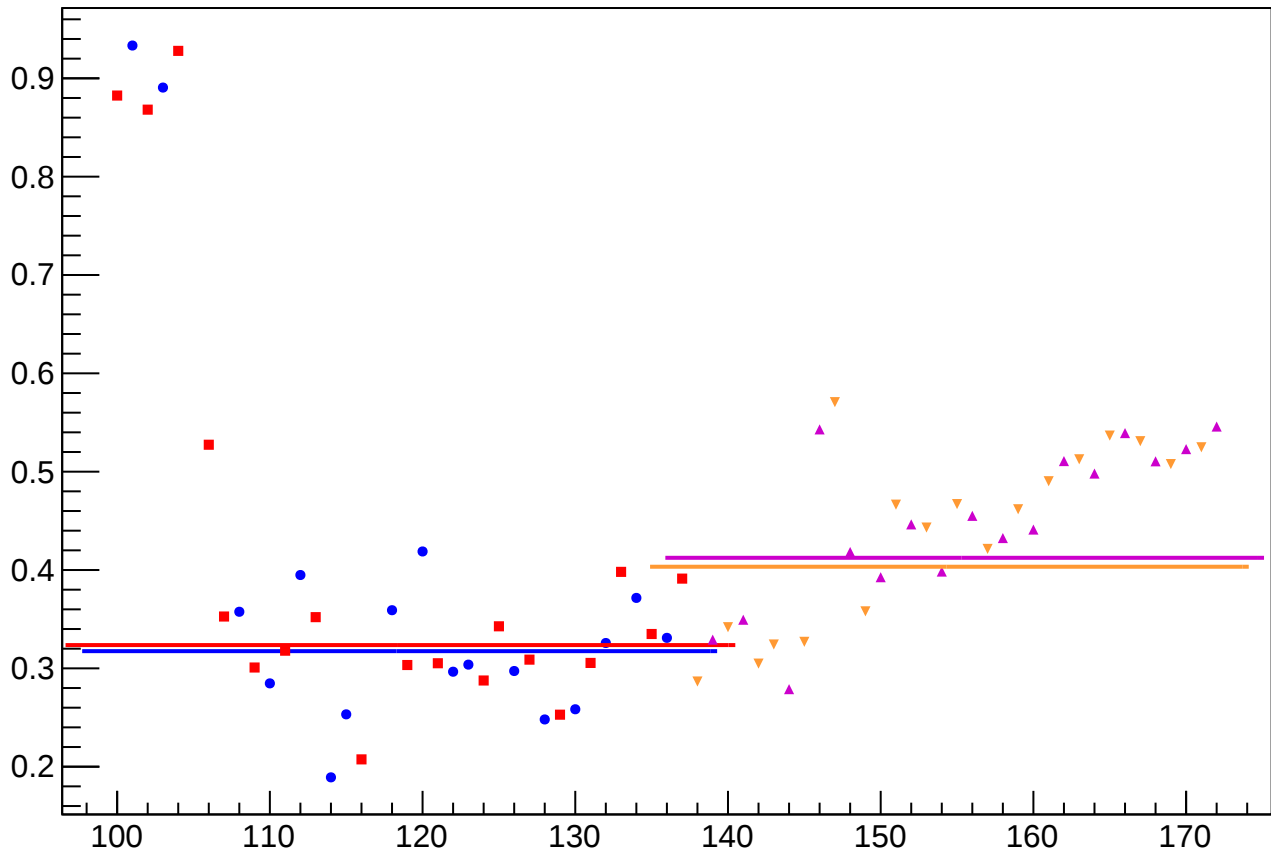
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 145.981 $\pm$ 0.000 χ^2 /NDF: 4497884962.7/33

Out: 146.619 $\pm$ 0.000 χ^2 /NDF: 4877532047.7/36

All: 146.306 $\pm$ 0.000 χ^2 /NDF: 9401825643.1

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1293179.2/16

Left Out: 0.403 $\pm$ 0.000 χ^2 /NDF:1198261.8/17

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1221676.7/18

Left In: 0.412 $\pm$ 0.000 χ^2 /NDF:1010489.1/16

Left: 0.408 $\pm$ 0.000 χ^2 /NDF: 2214854.5/34

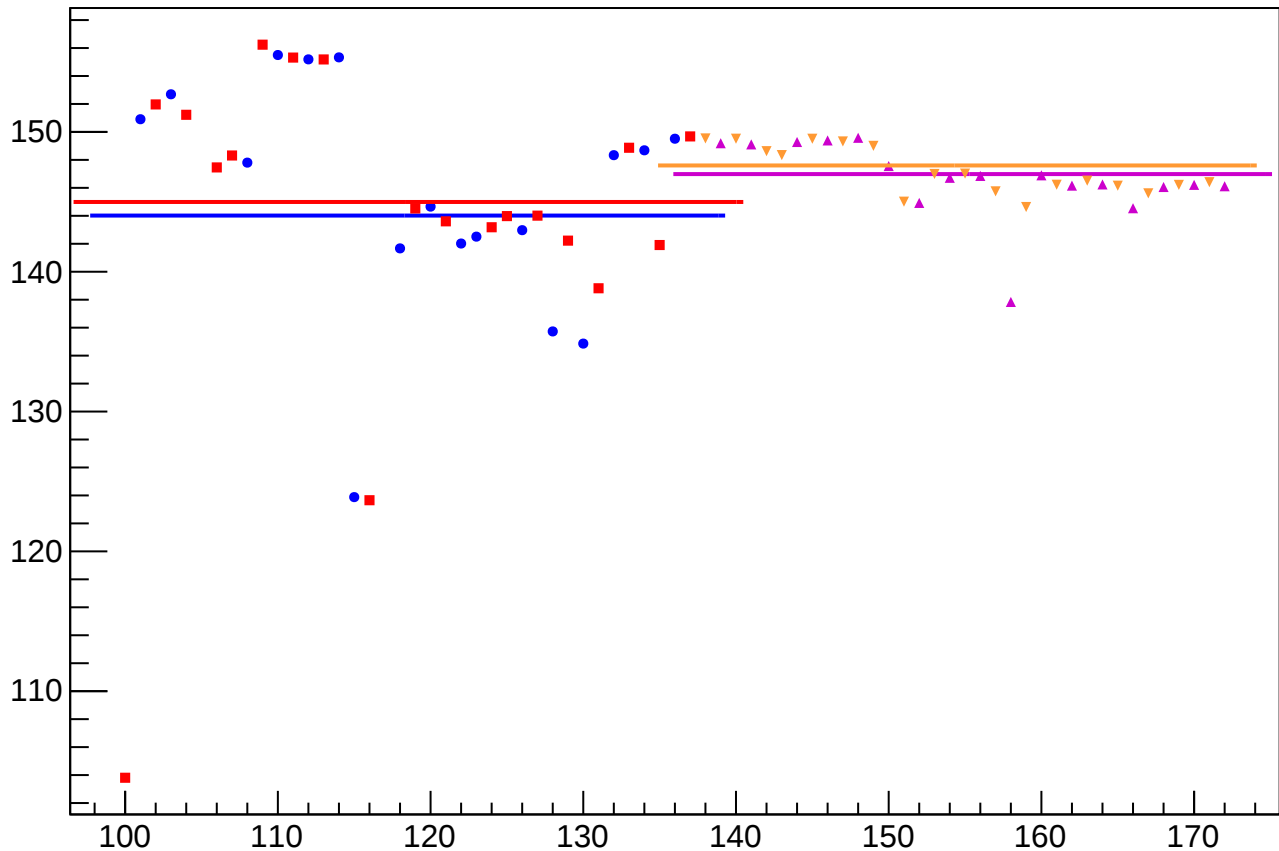
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2516974.9/35

In: 0.371 $\pm$ 0.000 χ^2 /NDF:2867437.9/33

Out: 0.370 $\pm$ 0.000 χ^2 /NDF:2829270.2/36

All: 0.370 $\pm$ 0.000 χ^2 /NDF: 5697037.8/70

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.602 $\pm$ 0.000 χ^2 /NDF: 200034943.5/17

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 146.985 $\pm$ 0.000 χ^2 /NDF: 504555508.2/16

Left: 147.301 $\pm$ 0.000 χ^2 /NDF: 717772172.5/34

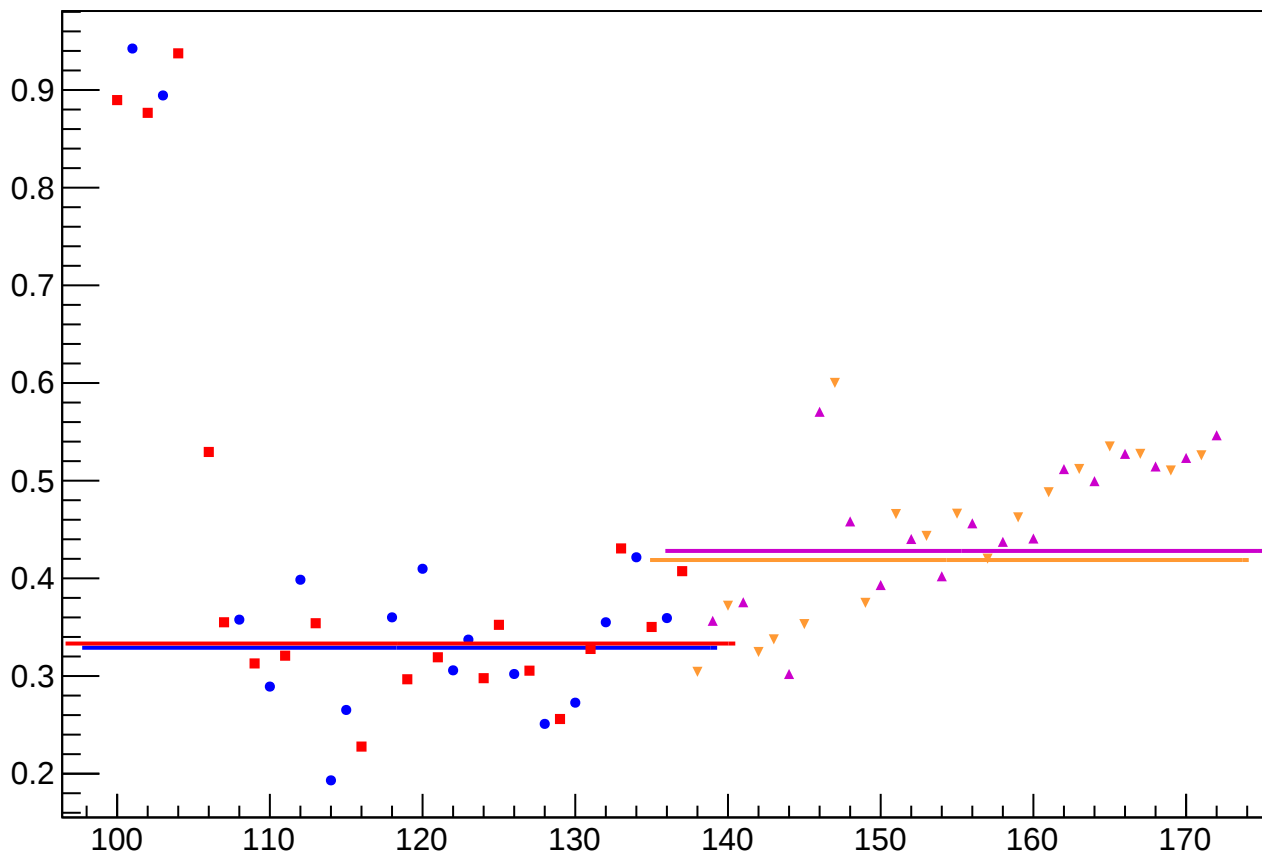
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.701 $\pm$ 0.000 χ^2 /NDF: 3999703345.6/33

Out: 146.490 $\pm$ 0.000 χ^2 /NDF: 4259954936.1/36

All: 146.103 $\pm$ 0.000 χ^2 /NDF: 8297365436.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2 /NDF: 1276118.3/16

Left Out: 0.419 $\pm$ 0.000 χ^2 /NDF:932174.8/17

Right Out: 0.333 $\pm$ 0.000 χ^2 /NDF: 1182496.7/18

Left In: 0.428 $\pm$ 0.000 χ^2 /NDF:767806.1/16

Left: 0.423 $\pm$ 0.000 χ^2 /NDF: 1705962.6/34

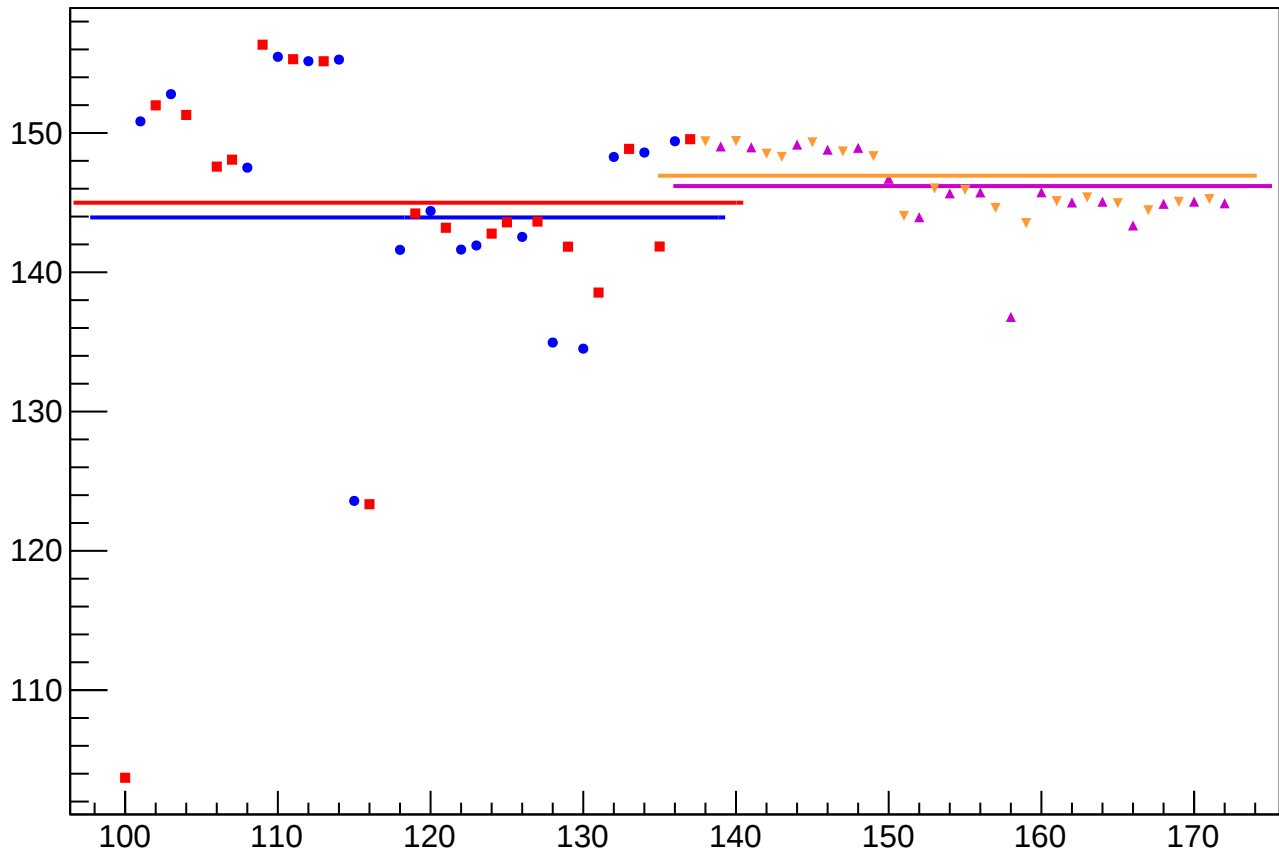
Right: 0.331 $\pm$ 0.000 χ^2 /NDF: 2459580.1/35

In: 0.385 $\pm$ 0.000 χ^2 /NDF:2616776.8/33

Out: 0.382 $\pm$ 0.000 χ^2 /NDF:2557364.8/36

All: 0.384 $\pm$ 0.000 χ^2 /NDF: 5175113.4/70

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 ± 0.000 $\chi^2/\text{NDF}: 3379203532.9/16$

Left Out: 146.935 ± 0.000 $\chi^2/\text{NDF}: 310380896.0/17$

Right Out: 144.995 ± 0.000 $\chi^2/\text{NDF}: 3934069043.2/18$

Left In: 146.190 ± 0.000 $\chi^2/\text{NDF}: 625535092.4/16$

Left: 146.572 ± 0.000 $\chi^2/\text{NDF}: 955041838.7/34$

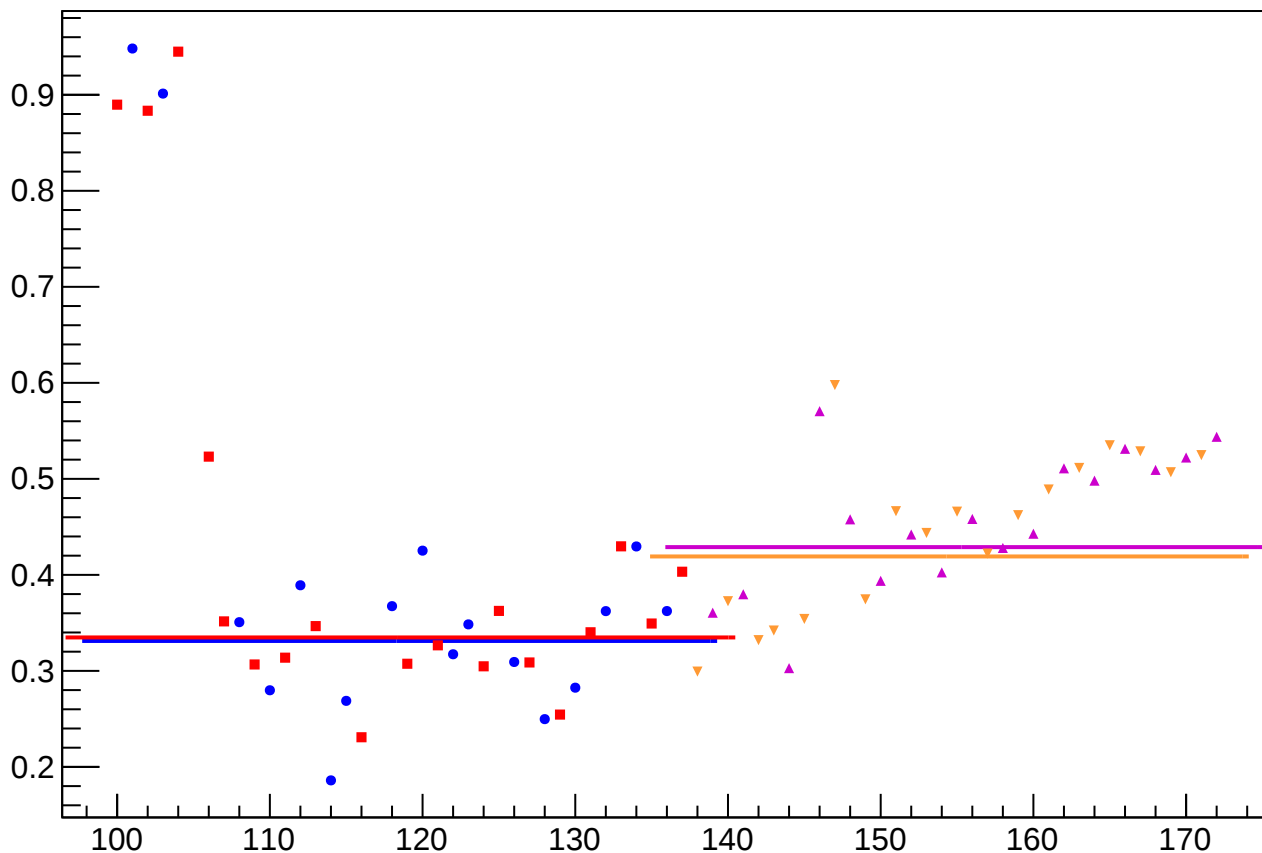
Right: 144.474 ± 0.000 $\chi^2/\text{NDF}: 7341982360.6/35$

In: 145.222 ± 0.000 $\chi^2/\text{NDF}: 4150976427.6/33$

Out: 146.112 ± 0.000 $\chi^2/\text{NDF}: 4357468501.2/36$

All: 145.677 ± 0.000 $\chi^2/\text{NDF}: 8556100057.7$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.419+/-0.000 χ^2/NDF : 925151.2/17

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.429+/-0.000 χ^2/NDF : 740501.3/16

Left: 0.424+/-0.000 χ^2/NDF : 1672176.2/34

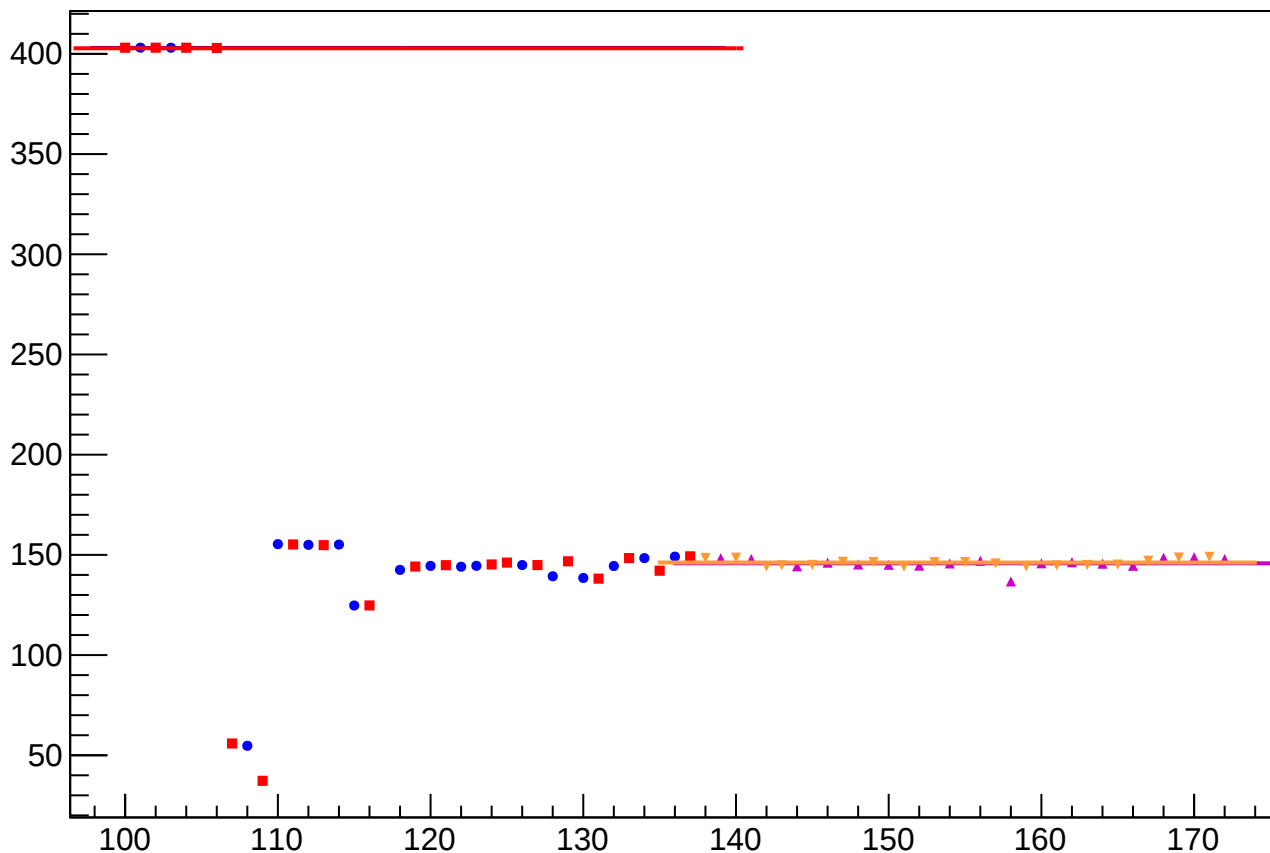
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.387+/-0.000 χ^2/NDF : 2586766.9/33

Out: 0.383+/-0.000 χ^2/NDF : 2524840.1/36

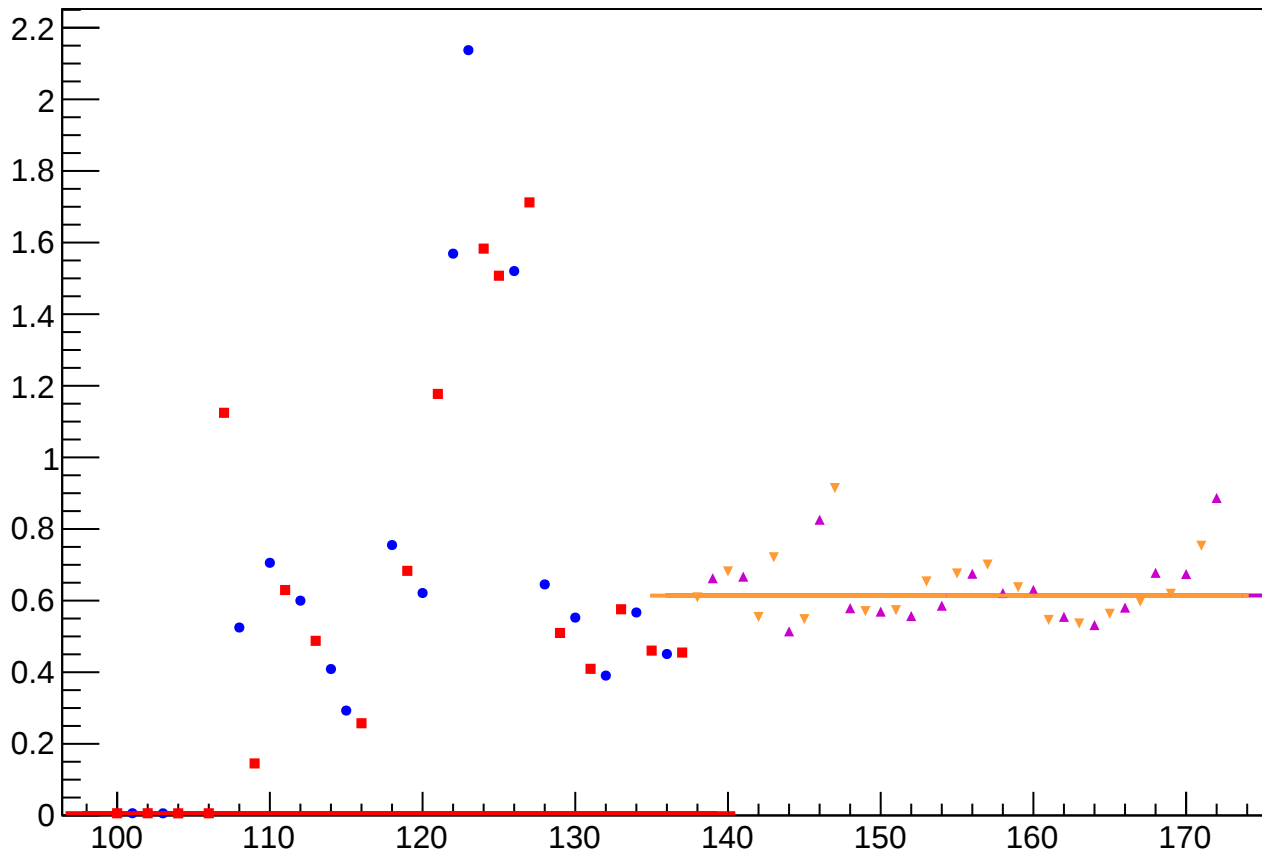
All: 0.385+/-0.000 χ^2/NDF : 5113083.3/70

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1096710296821.6/16	Left: 145.989+/-0.000	χ^2/NDF : 240981039.2/34
Left Out: 146.184+/-0.000	χ^2/NDF : 70658447.1/17	Right: 402.873+/-0.000	χ^2/NDF : 4201017642924.7/16
Right Out: 402.799+/-0.000	χ^2/NDF : 3103890772575.4/18	In: 402.744+/-0.000	χ^2/NDF : 2803051182102.9/33
Left In: 145.790+/-0.000	χ^2/NDF : 168291263.8/16	Out: 402.606+/-0.000	χ^2/NDF : 4848197300753.2/33
		All: 402.671+/-0.000	χ^2/NDF : 765156590865.4/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.614+/-0.000 χ^2/NDF : 309787.5/17

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.614+/-0.000 χ^2/NDF : 340820.3/16

Left: 0.614+/-0.000 χ^2/NDF : 650612.5/34

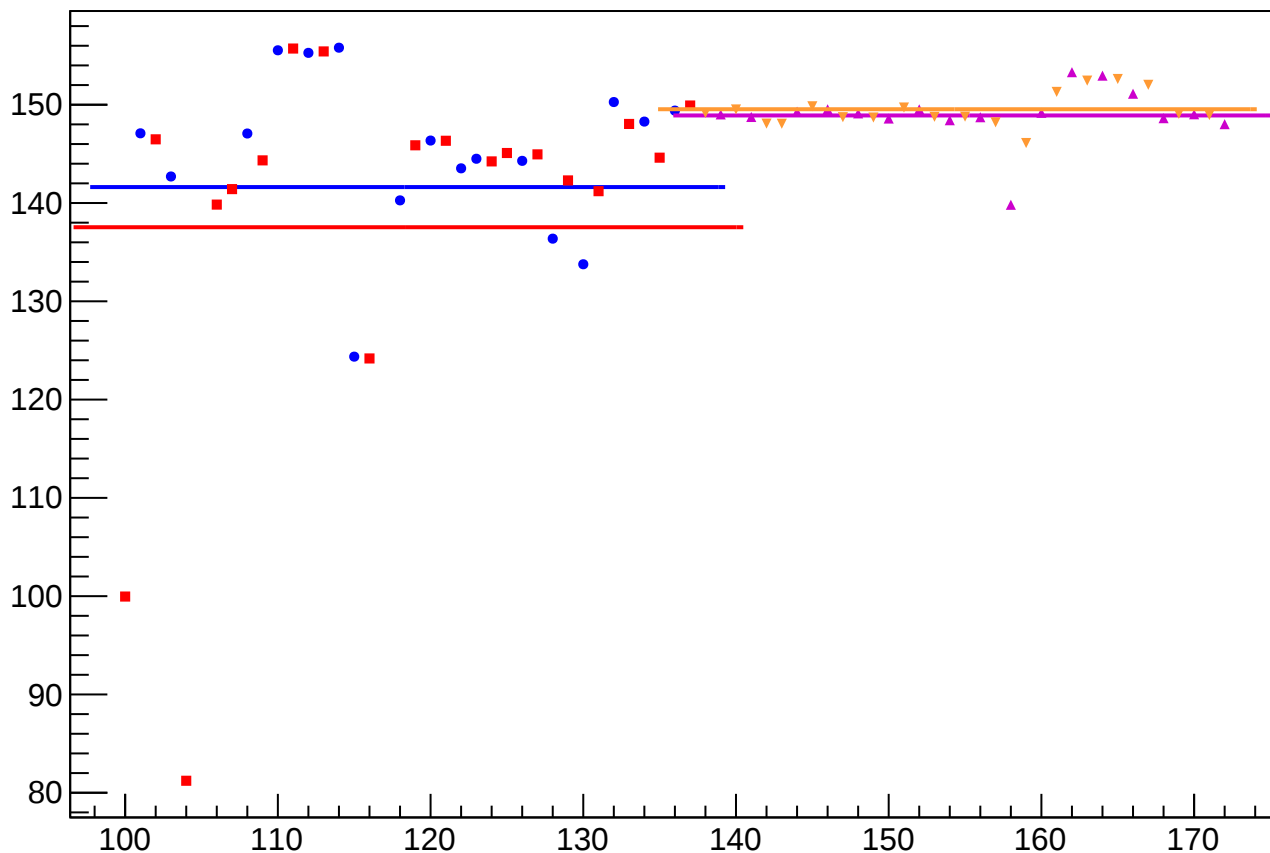
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 28577196.1/33

Out: 0.007+/-0.000 χ^2/NDF : 29080500.2/36

All: 0.007+/-0.000 χ^2/NDF : 57657809.4/70

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.542 $\pm$ 0.000 χ^2 /NDF: 119299130.1/17

Right Out: 137.536 $\pm$ 0.000 χ^2 /NDF: 1315768553.6/18

Left In: 148.909 $\pm$ 0.000 χ^2 /NDF: 363958332.1/16

Left: 149.234 $\pm$ 0.000 χ^2 /NDF: 490946892.0/34

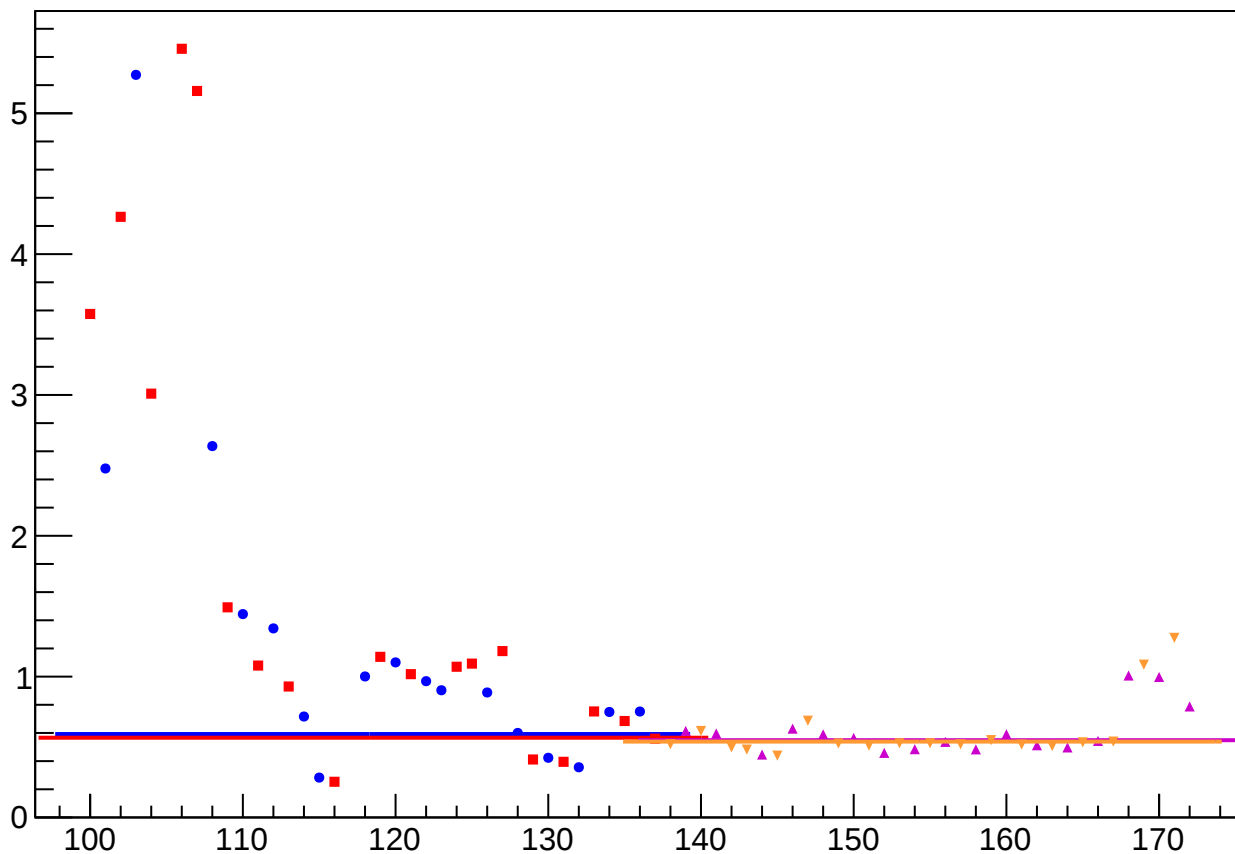
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.355 $\pm$ 0.000 χ^2 /NDF: 1768740766.7/33

Out: 146.995 $\pm$ 0.000 χ^2 /NDF: 2641199559.8/36

All: 147.170 $\pm$ 0.000 χ^2 /NDF: 4413089708.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592+/-0.000 χ^2/NDF : 3521577.2/16

Left Out: 0.539+/-0.000 χ^2/NDF : 1026531.0/17

Right Out: 0.566+/-0.000 χ^2/NDF : 4682140.9/18

Left In: 0.549+/-0.000 χ^2/NDF : 954199.9/16

Left: 0.544+/-0.000 χ^2/NDF : 1984402.6/34

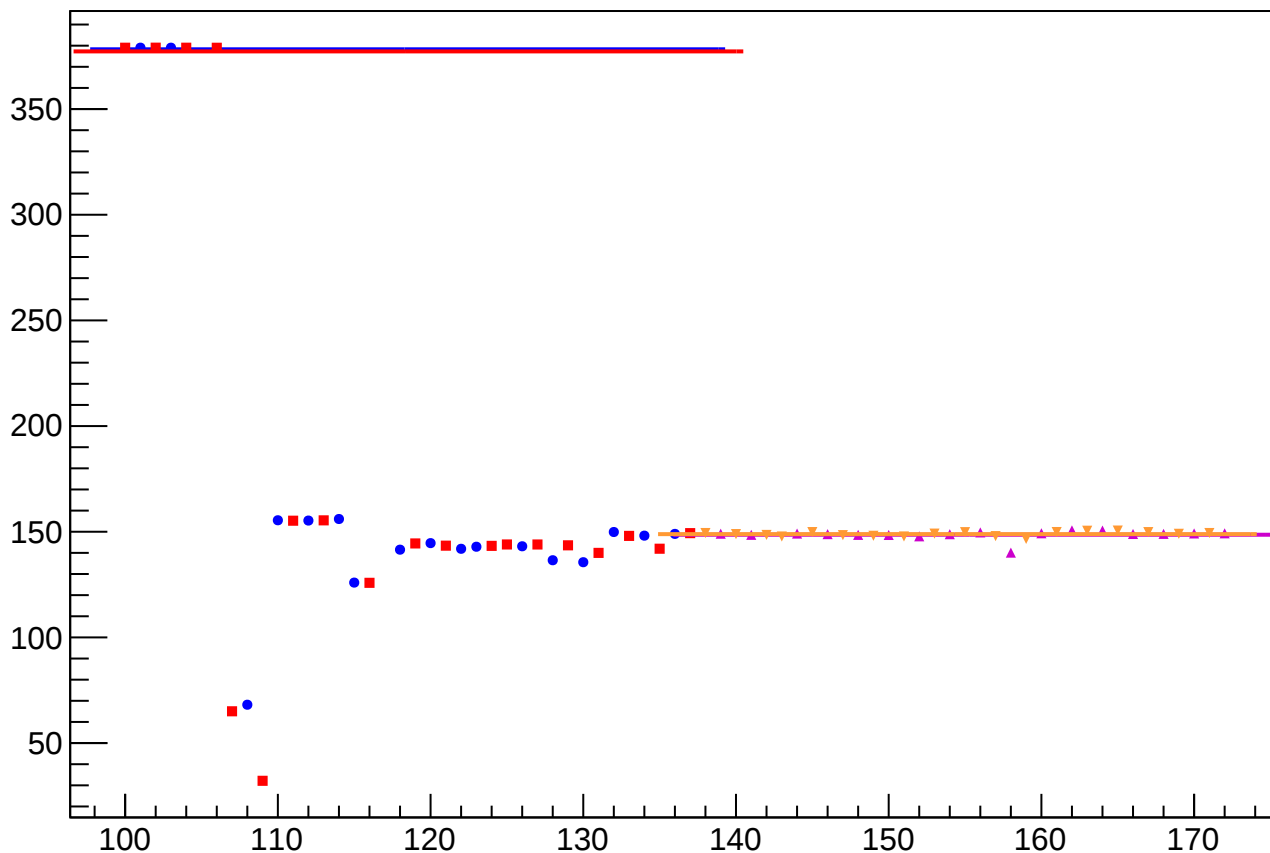
Right: 0.579+/-0.000 χ^2/NDF : 8210771.7/35

In: 0.558+/-0.000 χ^2/NDF : 4506134.9/33

Out: 0.545+/-0.000 χ^2/NDF : 5721198.3/36

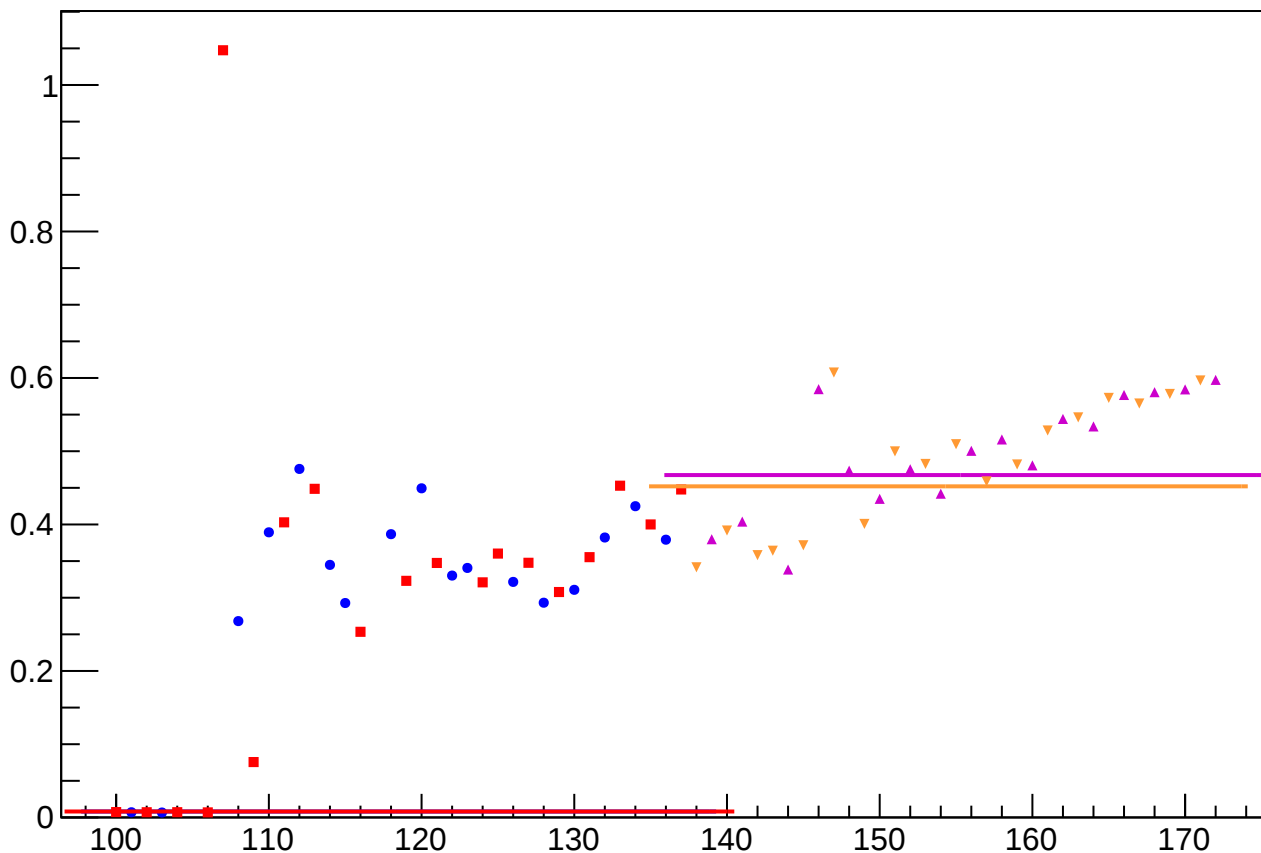
All: 0.551+/-0.000 χ^2/NDF : 10235941.3/70

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.728+/-0.000	χ^2/NDF : 298242378.0/34
Left Out: 148.863+/-0.000	χ^2/NDF : 60619913.3/17	Right: 377.753+/-0.000	χ^2/NDF : 10798714881373.5
Right Out: 377.289+/-0.000	χ^2/NDF : 8279468194444.1/18	In: 377.304+/-0.000	χ^2/NDF : 5501511676128.2/33
Left In: 148.583+/-0.000	χ^2/NDF : 235299792.8/16	Out: 376.368+/-0.000	χ^2/NDF : 11475668865263.5
		All: 376.805+/-0.000	χ^2/NDF : 169834302598.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.452 $\pm$ 0.000 χ^2 /NDF: 908474.4/17

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 731417.7/16

Left: 0.459 $\pm$ 0.000 χ^2 /NDF: 1653903.0/34

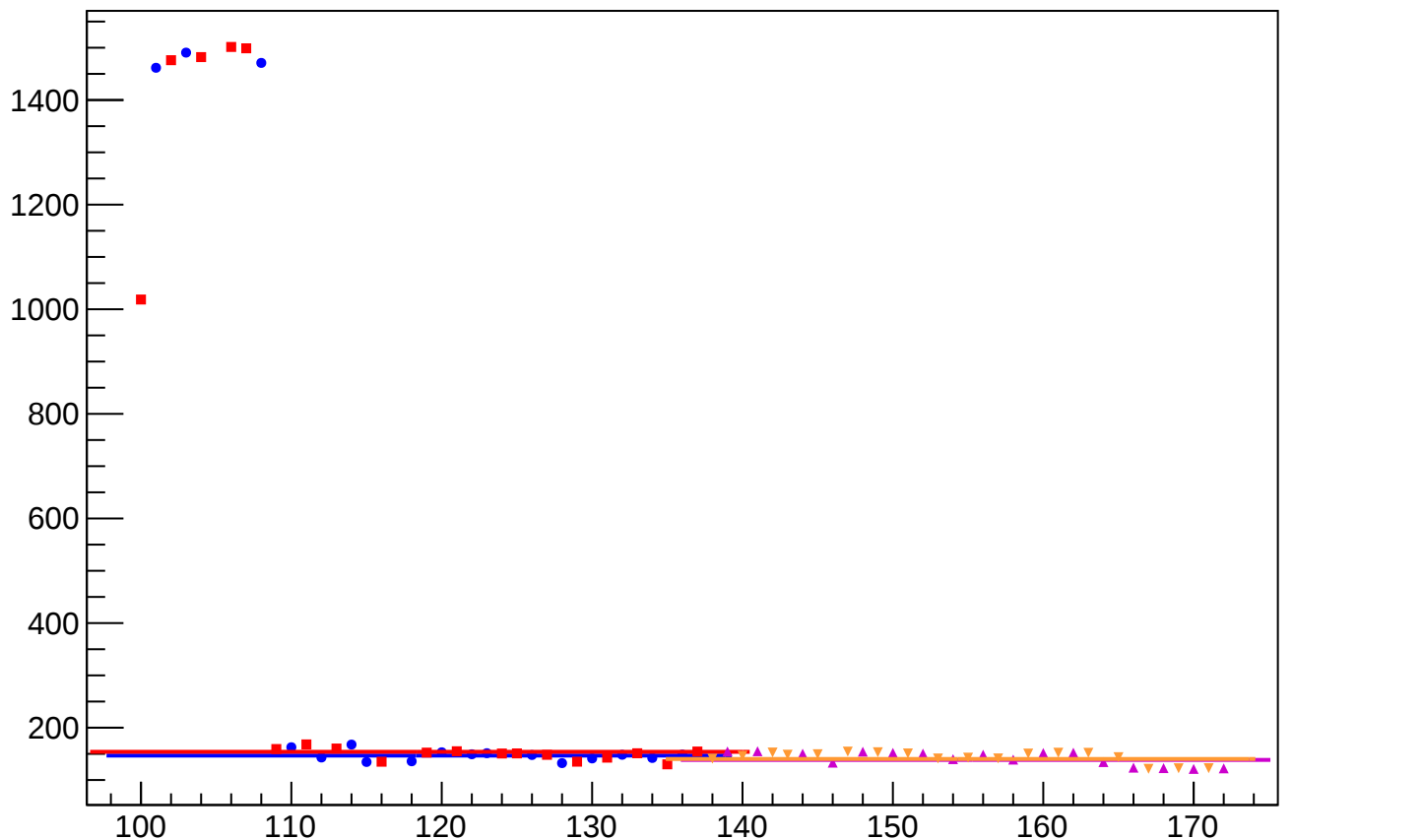
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 34521743.4/33

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 34584743.1/36

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 69106780.1/70

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 140.206+/-0.000 χ^2/NDF : 2364814803.8/17

Right Out: 153.887+/-0.000 χ^2/NDF : 33738118250.9/18

Left In: 138.412+/-0.000 χ^2/NDF : 2760141771.8/16

Left: 139.312+/-0.000 χ^2/NDF : 5150617782.1/34

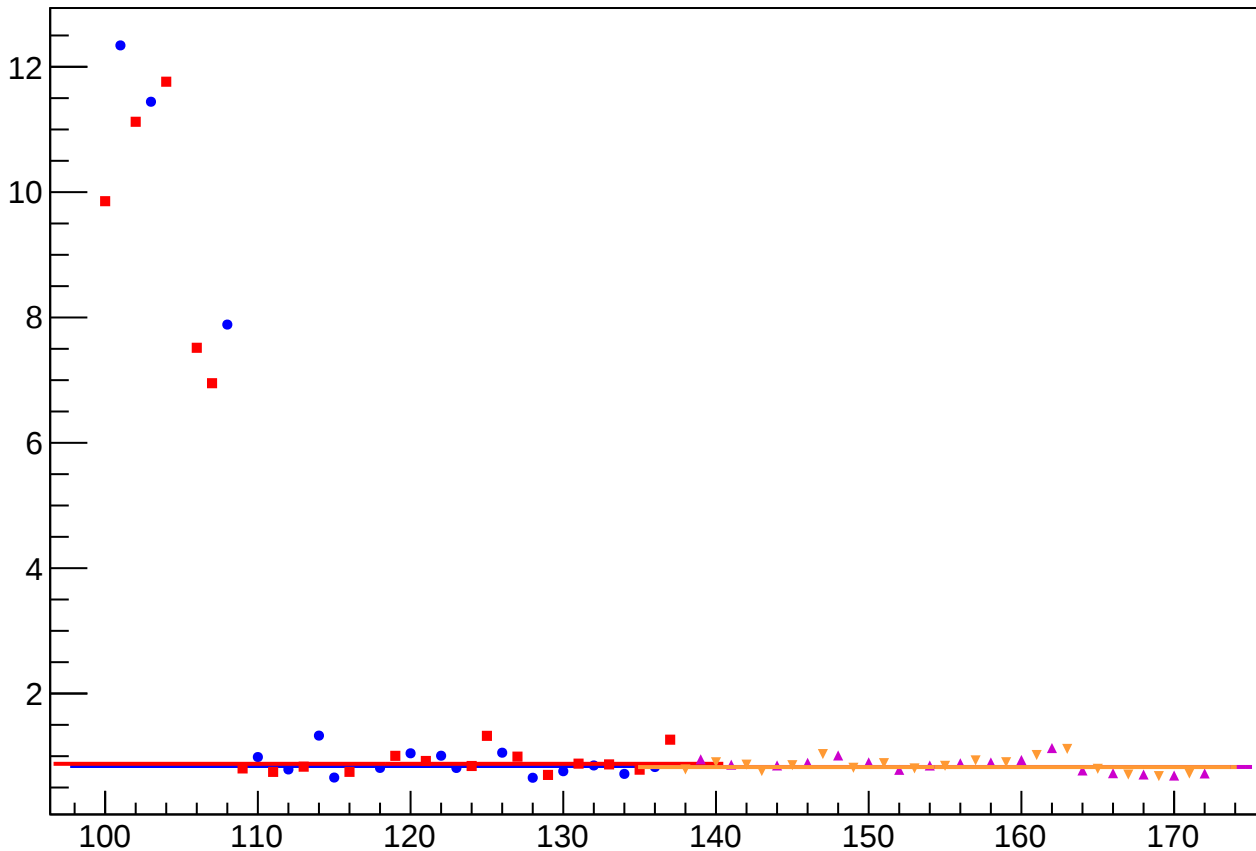
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 140.505+/-0.000 χ^2/NDF : 27387748620.7/33

Out: 143.604+/-0.000 χ^2/NDF : 36847338472.9/36

All: 142.056+/-0.000 χ^2/NDF : 64337341291.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844 $\pm$ 0.000 χ^2 /NDF: 2670470.7/16

Left Out: 0.826 $\pm$ 0.000 χ^2 /NDF:384332.8/17

Right Out: 0.878 $\pm$ 0.000 χ^2 /NDF: 2812500.6/18

Left In: 0.828 $\pm$ 0.000 χ^2 /NDF:374352.0/16

Left: 0.827 $\pm$ 0.000 χ^2 /NDF: 758731.3/34

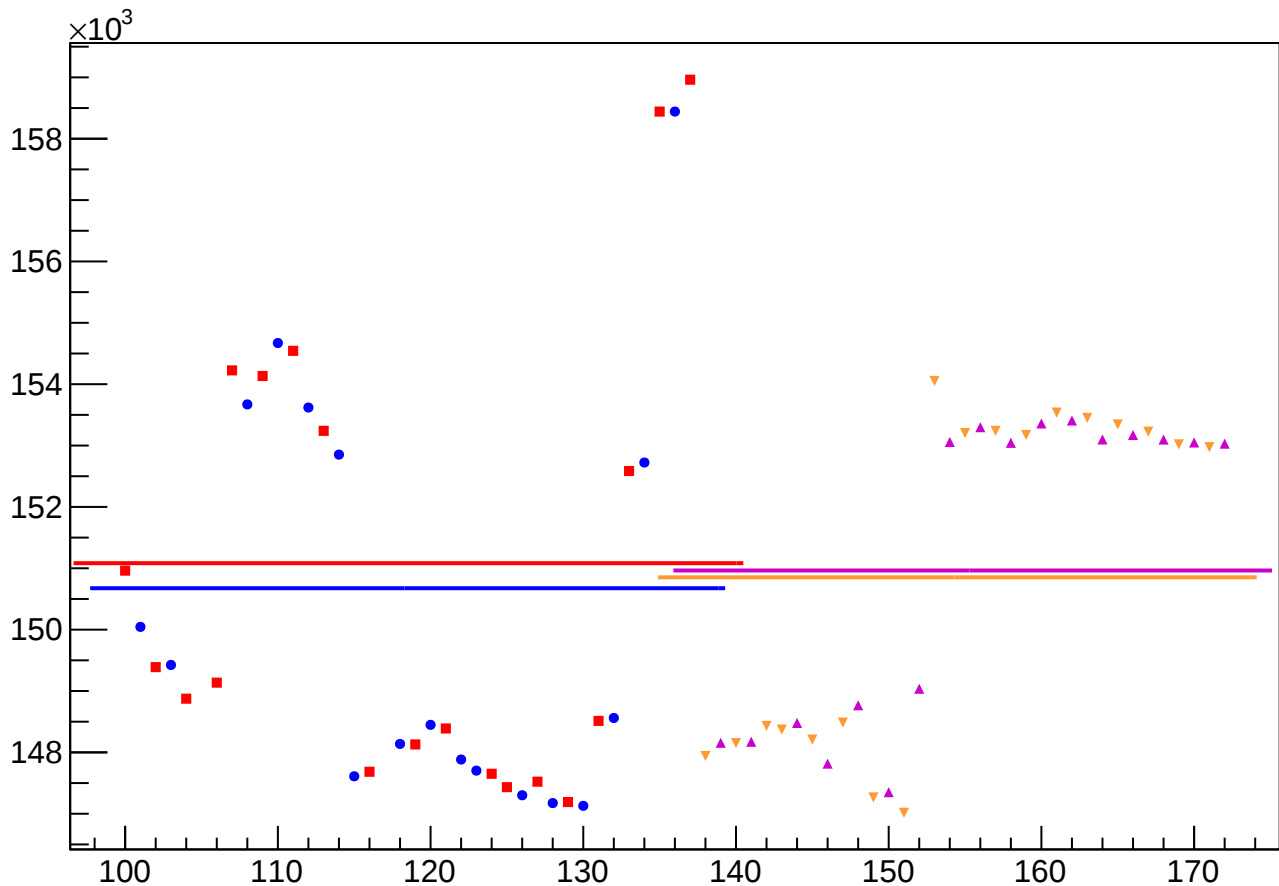
Right: 0.861 $\pm$ 0.000 χ^2 /NDF: 5489376.5/35

In: 0.832 $\pm$ 0.000 χ^2 /NDF:3046801.6/33

Out: 0.839 $\pm$ 0.000 χ^2 /NDF:3218431.1/36

All: 0.835 $\pm$ 0.000 χ^2 /NDF: 6266361.4/70

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063

χ^2 /NDF: 3309974859.4/16

Left: 150906.208 $\pm$ 0.038

χ^2 /NDF: 4565130102.0/3

Right: 150890.022 $\pm$ 0.043

χ^2 /NDF: 6632946370.1/16

Left Out: 150852.263 $\pm$ 0.053

χ^2 /NDF: 2607999356.7/17

In: 150838.262 $\pm$ 0.042

χ^2 /NDF: 5276890229.9/33

Right Out: 151083.268 $\pm$ 0.060

χ^2 /NDF: 3300830370.5/18

Out: 150954.938 $\pm$ 0.040

χ^2 /NDF: 5917149676.7/33

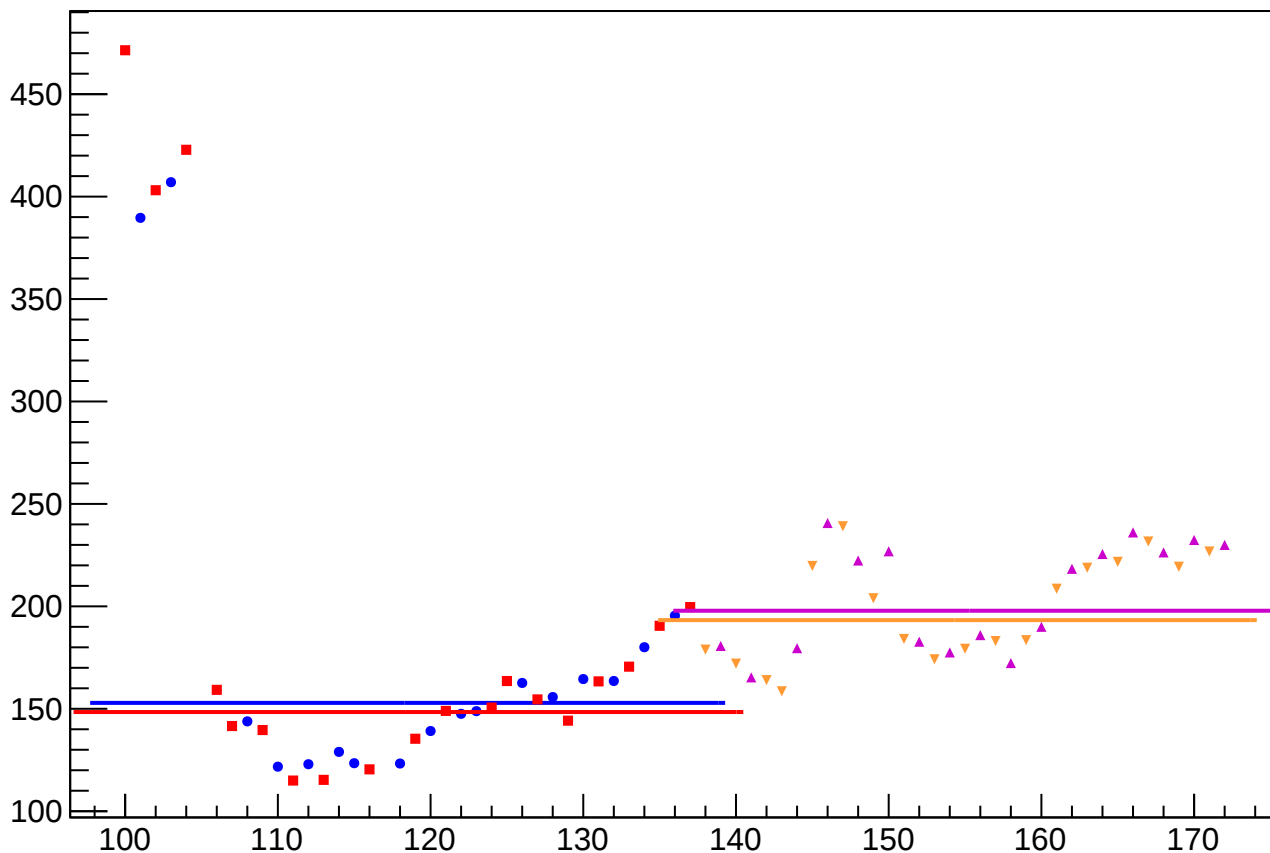
Left In: 150963.981 $\pm$ 0.055

χ^2 /NDF: 1955016730.9/16

All: 150899.087 $\pm$ 0.029

χ^2 /NDF: 11198154676.7/160

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2/NDF : 1154088.7/16

Left Out: 193.275 $\pm$ 0.038 χ^2/NDF : 394882.2/17

Right Out: 148.418 $\pm$ 0.042 χ^2/NDF : 1191577.6/18

Left In: 197.857 $\pm$ 0.039 χ^2/NDF : 417933.1/16

Left: 195.488 $\pm$ 0.027 χ^2/NDF : 819929.0/34

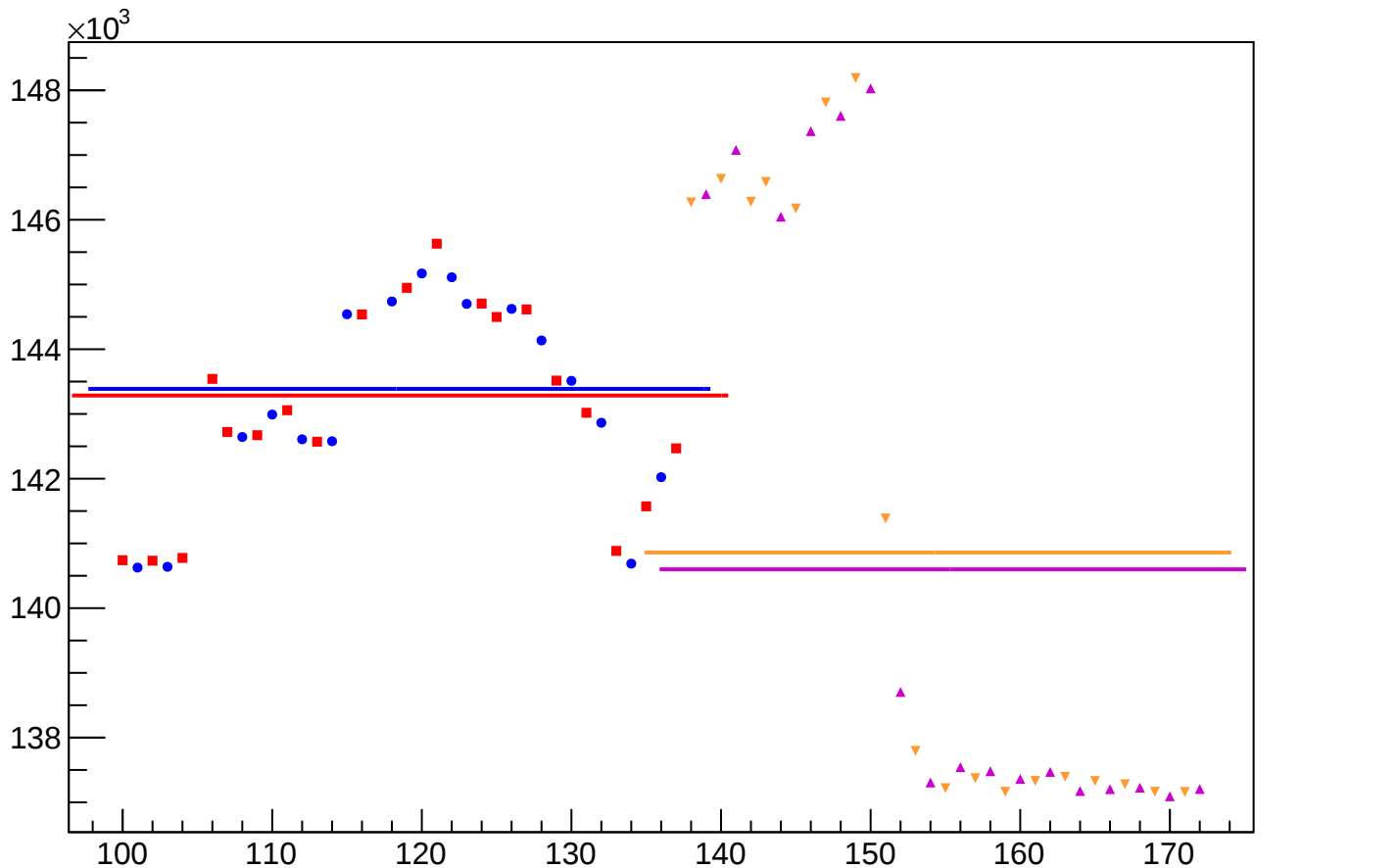
Right: 150.532 $\pm$ 0.031 χ^2/NDF : 2350963.4/35

In: 178.290 $\pm$ 0.029 χ^2/NDF : 2148516.5/33

Out: 173.337 $\pm$ 0.028 χ^2/NDF : 2213892.4/36

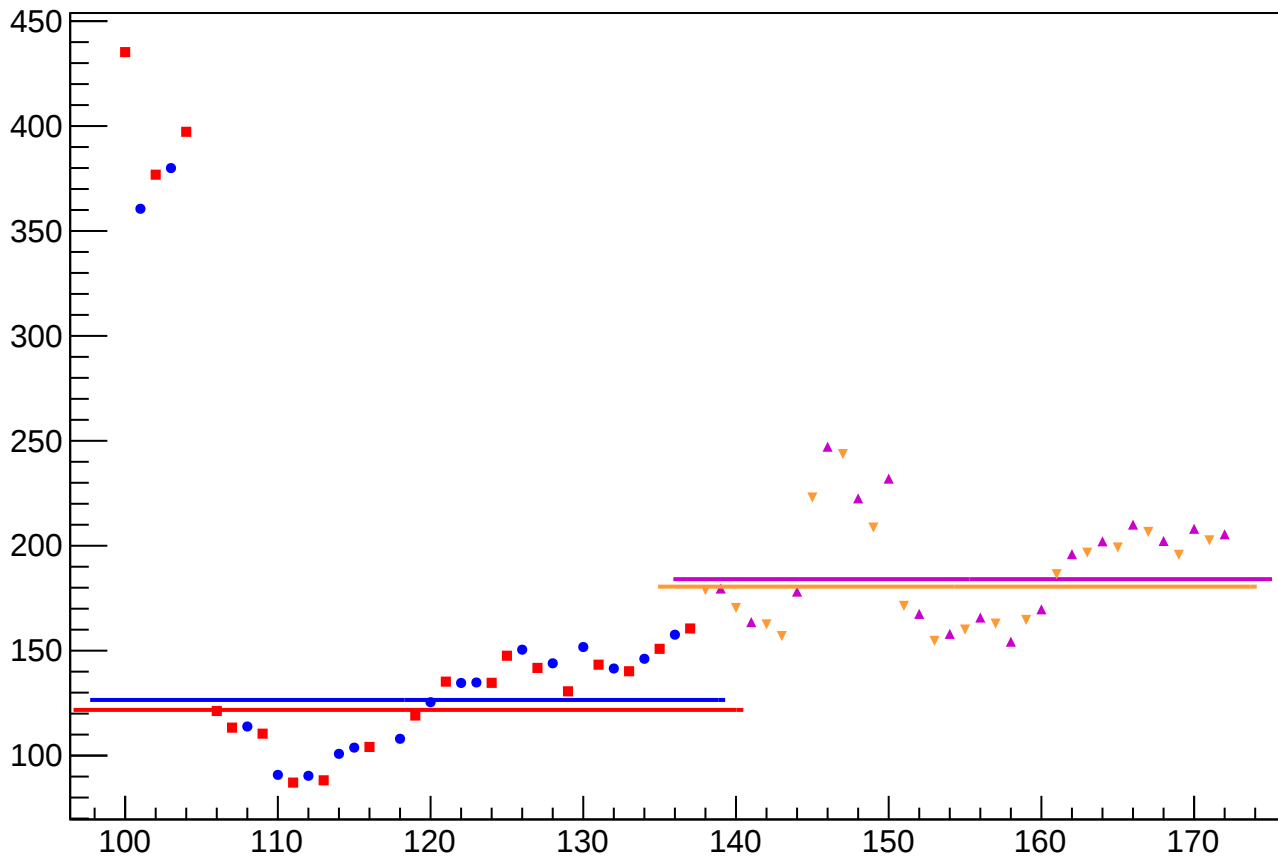
All: 175.708 $\pm$ 0.020 χ^2/NDF : 4377236.1/70

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 140733.640 $\pm$ 0.036	χ^2 /NDF: 15436422381.5
Left Out: 140859.571 $\pm$ 0.050	χ^2 /NDF: 7867348947.2/17	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: 141960.916 $\pm$ 0.037	χ^2 /NDF: 9507380812.0/33
Left In: 140599.571 $\pm$ 0.052	χ^2 /NDF: 7555936507.9/16	Out: 142092.317 $\pm$ 0.035	χ^2 /NDF: 9675499903.4/33
		All: 142029.976 $\pm$ 0.025	χ^2 /NDF: 191895652

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 180.502 $\pm$ 0.035 χ^2 /NDF: 415153.5/17

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 184.080 $\pm$ 0.036 χ^2 /NDF: 484527.7/16

Left: 182.235 $\pm$ 0.025 χ^2 /NDF: 904656.9/34

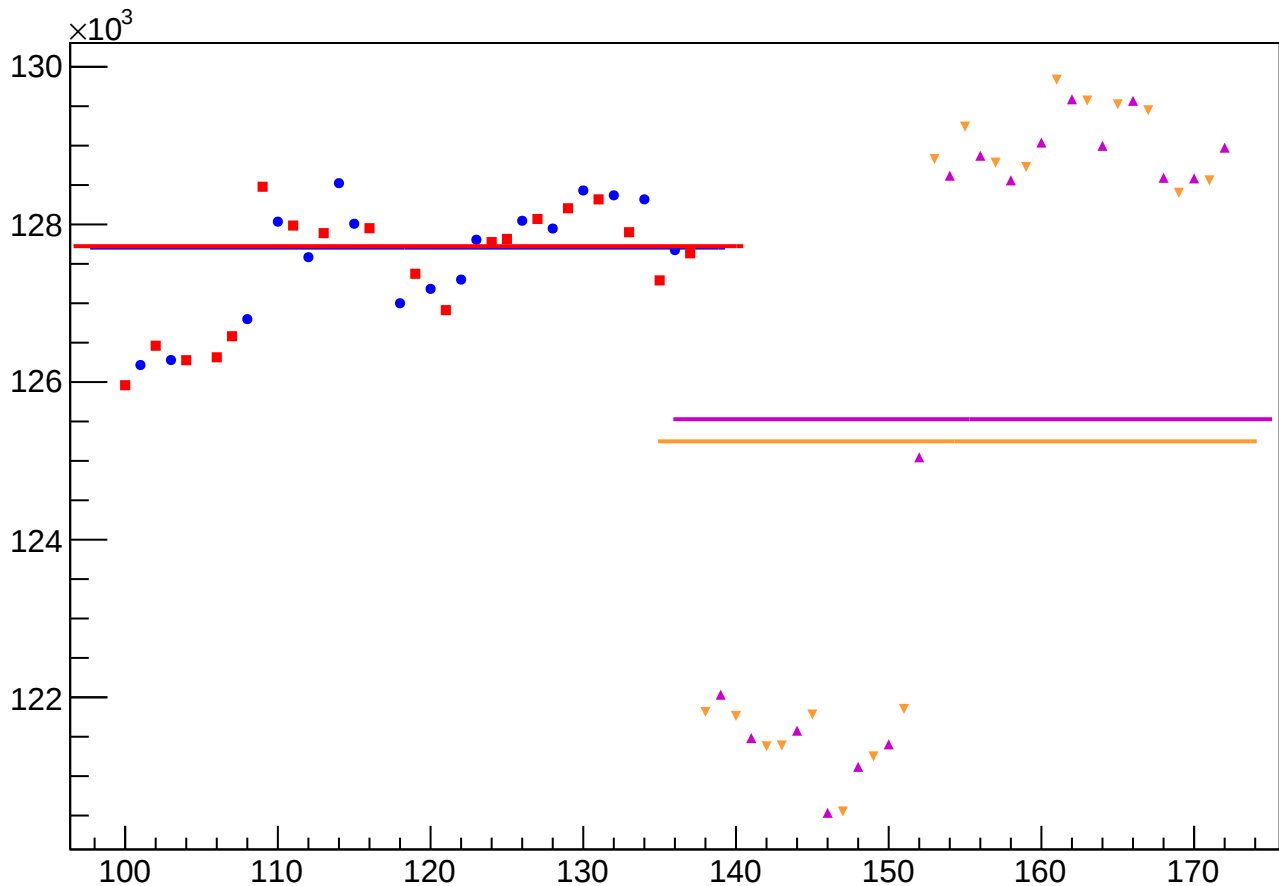
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 155.966 $\pm$ 0.026 χ^2 /NDF: 3146045.3/33

Out: 150.649 $\pm$ 0.025 χ^2 /NDF: 3285876.0/36

All: 153.172 $\pm$ 0.018 χ^2 /NDF: 6453814.3/70

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left Out: 125247.935 $\pm$ 0.049

χ^2 /NDF: 5905299632.1/17

Right Out: 127724.256 $\pm$ 0.055

χ^2 /NDF: 112614317.2/18

Left In: 125528.947 $\pm$ 0.049

χ^2 /NDF: 5308678174.2/16

Left: 125389.099 $\pm$ 0.035

χ^2 /NDF: 11230425212.6

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

In: 126432.077 $\pm$ 0.037

χ^2 /NDF: 6229489611.2/33

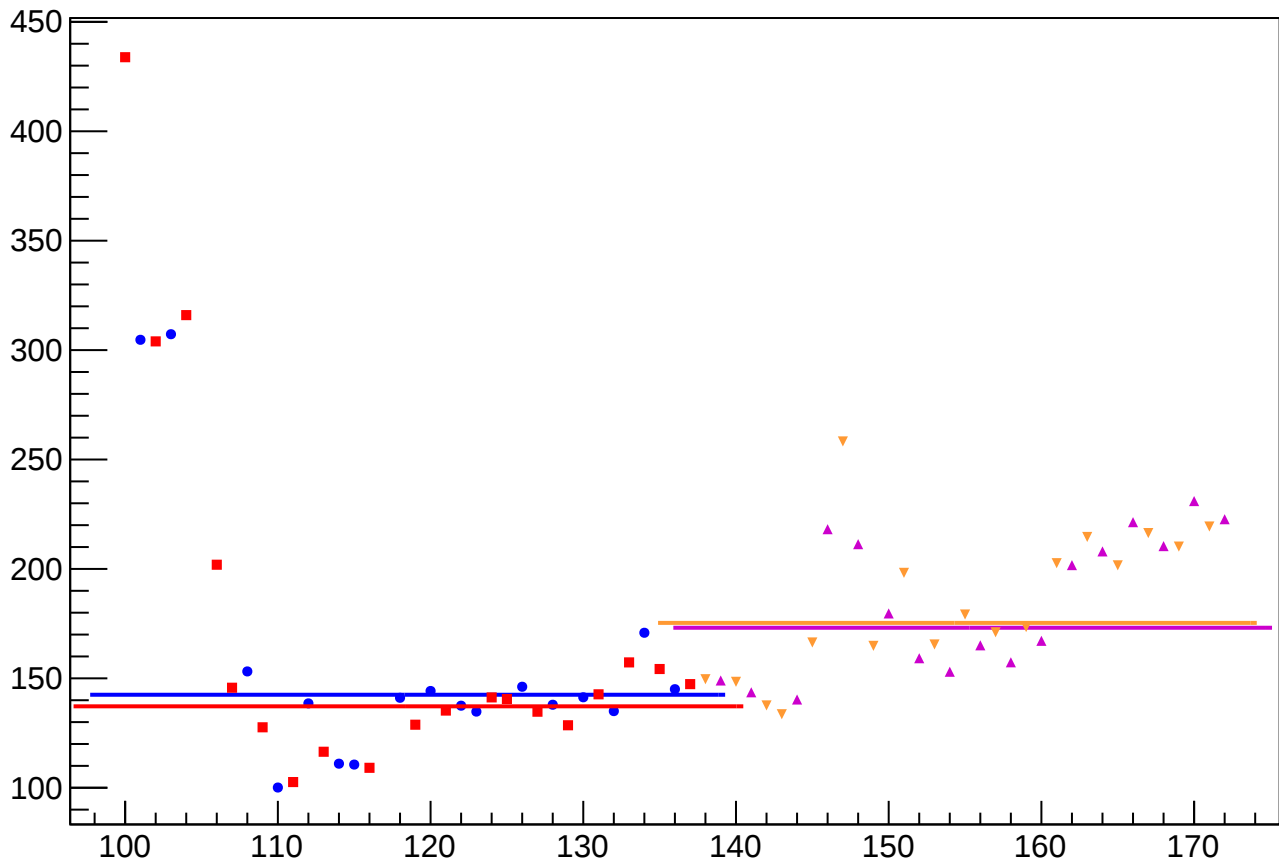
Out: 126357.032 $\pm$ 0.036

χ^2 /NDF: 7156652584.2/3

All: 126393.639 $\pm$ 0.026

χ^2 /NDF: 13388205

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 175.343 $\pm$ 0.035 χ^2 /NDF: 736124.9/17

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 173.121 $\pm$ 0.035 χ^2 /NDF: 714167.6/16

Left: 174.227 $\pm$ 0.024 χ^2 /NDF: 1452348.6/34

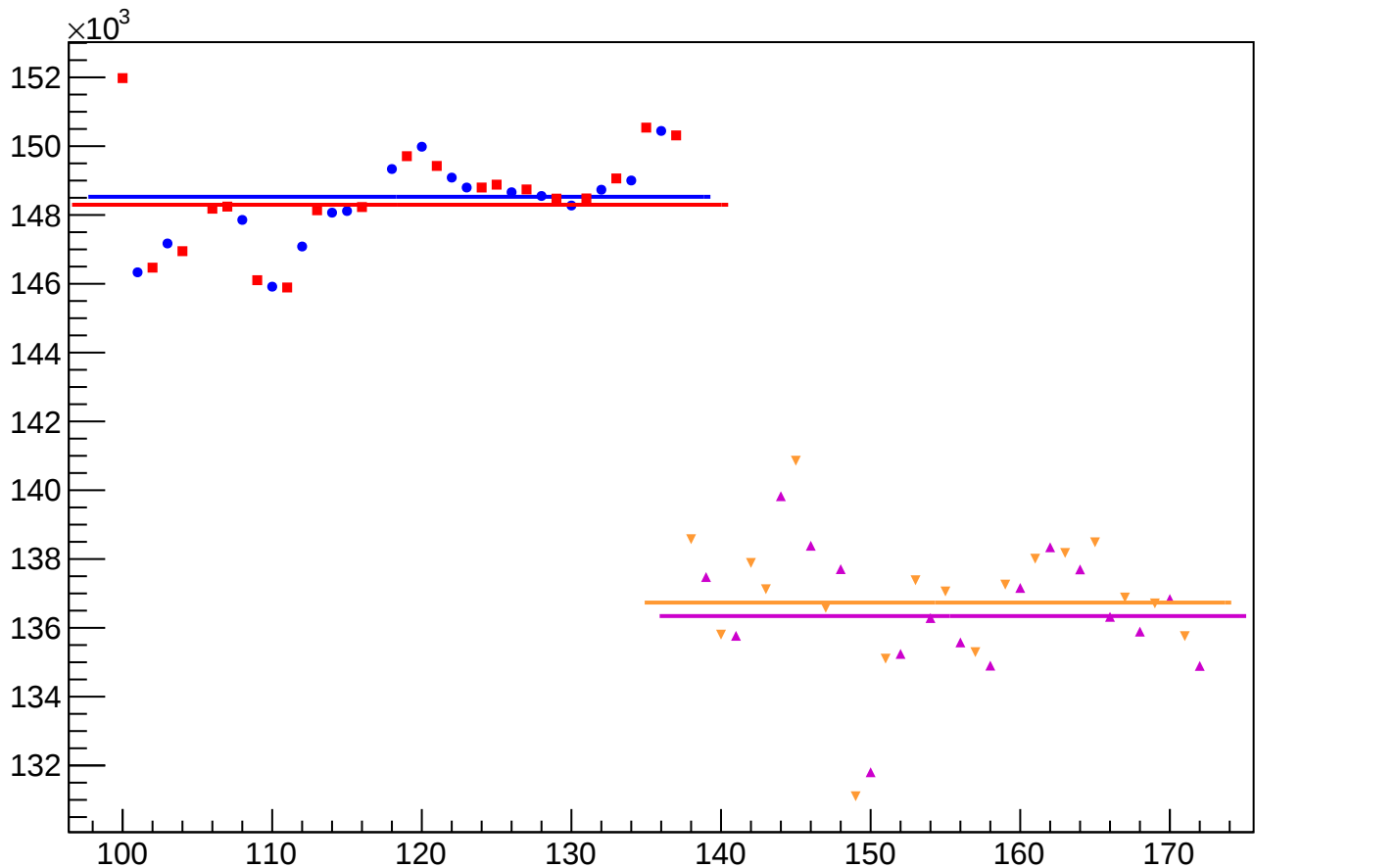
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 160.420 $\pm$ 0.026 χ^2 /NDF: 1875961.5/33

Out: 158.265 $\pm$ 0.026 χ^2 /NDF: 2233460.6/36

All: 159.316 $\pm$ 0.018 χ^2 /NDF: 4112826.0/70

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136734.786 $\pm$ 0.072 χ^2 /NDF: 837886705.8/17

Right Out: 148297.126 $\pm$ 0.076 χ^2 /NDF: 293244556.5/18

Left In: 136342.948 $\pm$ 0.072 χ^2 /NDF: 658105195.7/16

Left: 136538.079 $\pm$ 0.051 χ^2 /NDF: 1510842142.0/3

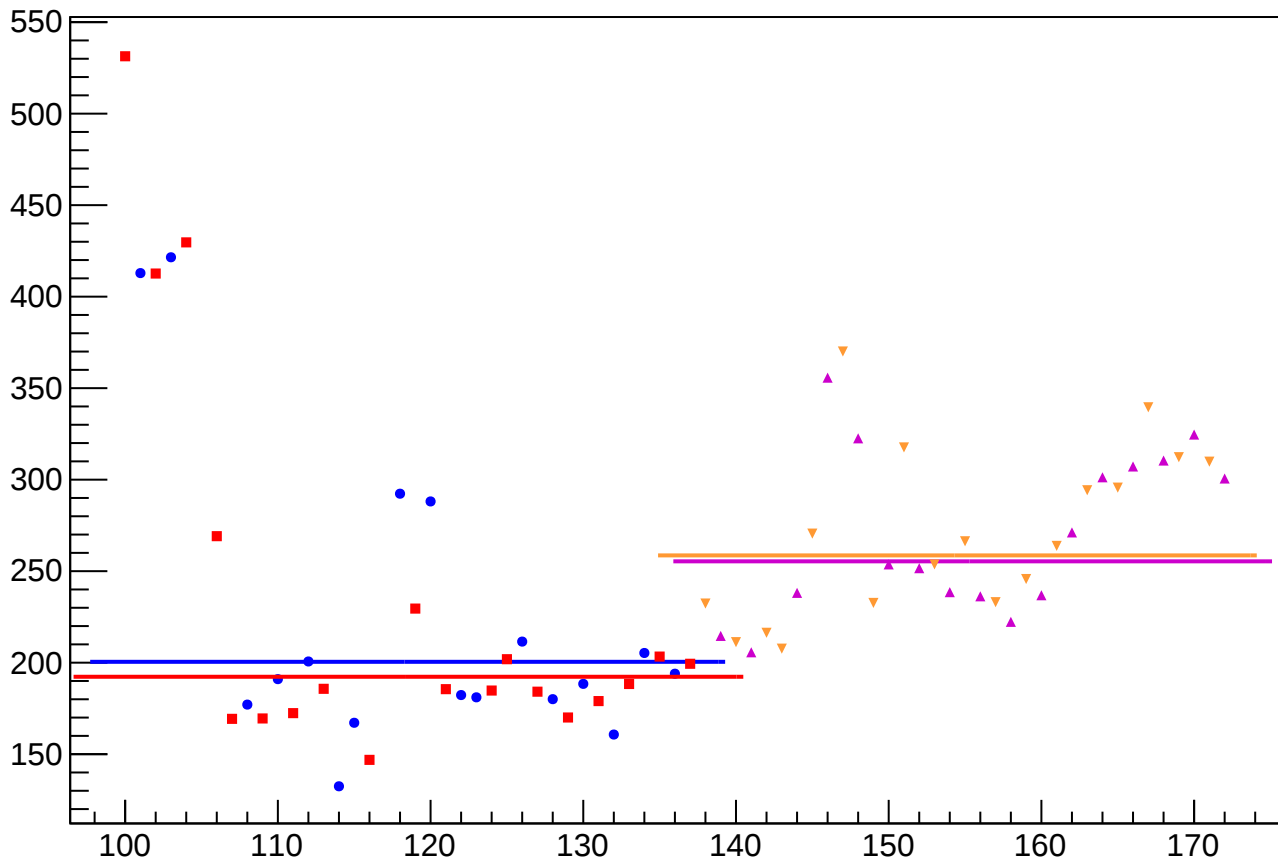
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141622.313 $\pm$ 0.054 χ^2 /NDF: 13363238735.6/3

Out: 142176.105 $\pm$ 0.052 χ^2 /NDF: 13252690443.9

All: 141907.537 $\pm$ 0.038 χ^2 /NDF: 266700583

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 258.620 $\pm$ 0.051 χ^2 /NDF: 664792.5/17

Right Out: 192.304 $\pm$ 0.054 χ^2 /NDF: 844504.1/18

Left In: 255.372 $\pm$ 0.051 χ^2 /NDF: 629766.1/16

Left: 256.989 $\pm$ 0.036 χ^2 /NDF: 1296599.6/34

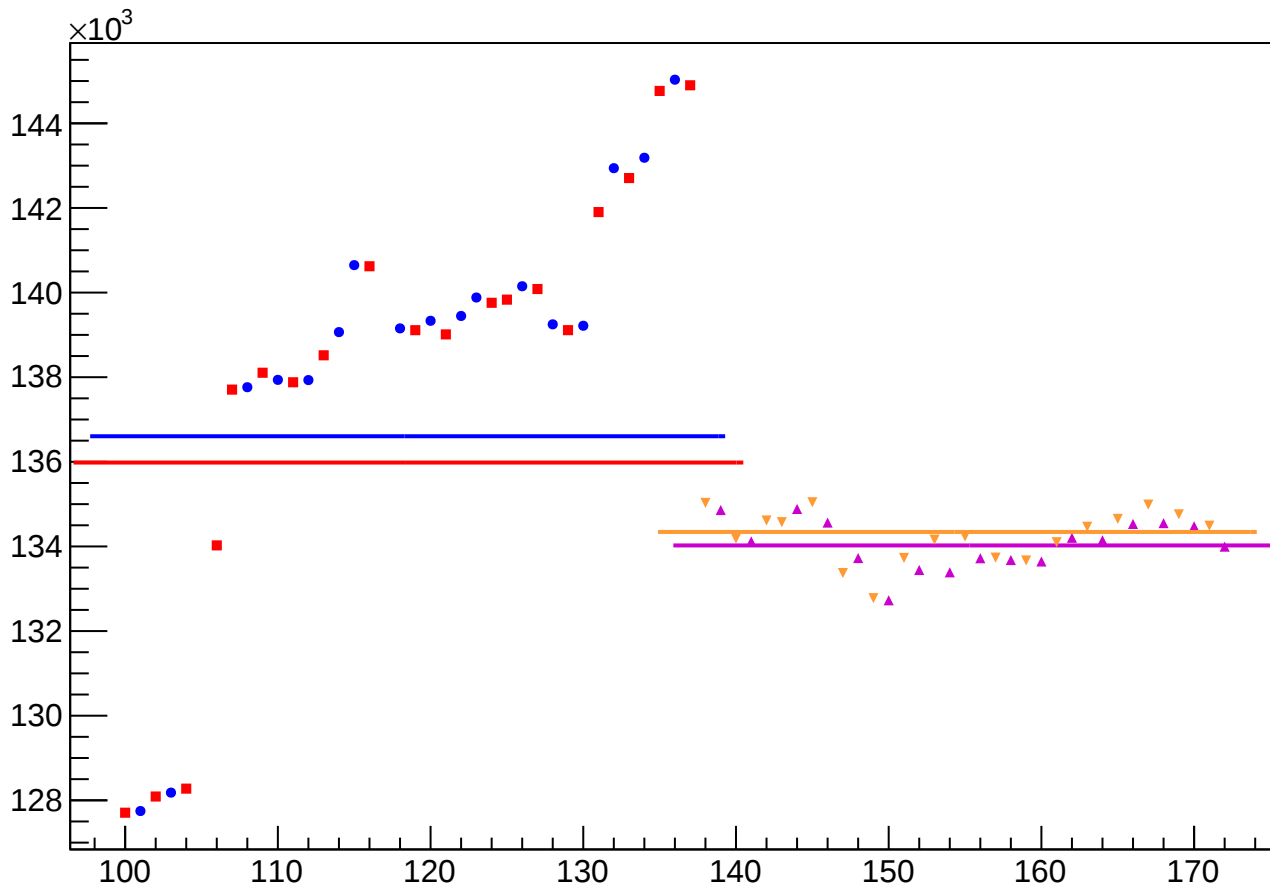
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 231.587 $\pm$ 0.038 χ^2 /NDF: 2073529.4/33

Out: 227.411 $\pm$ 0.037 χ^2 /NDF: 2306795.0/36

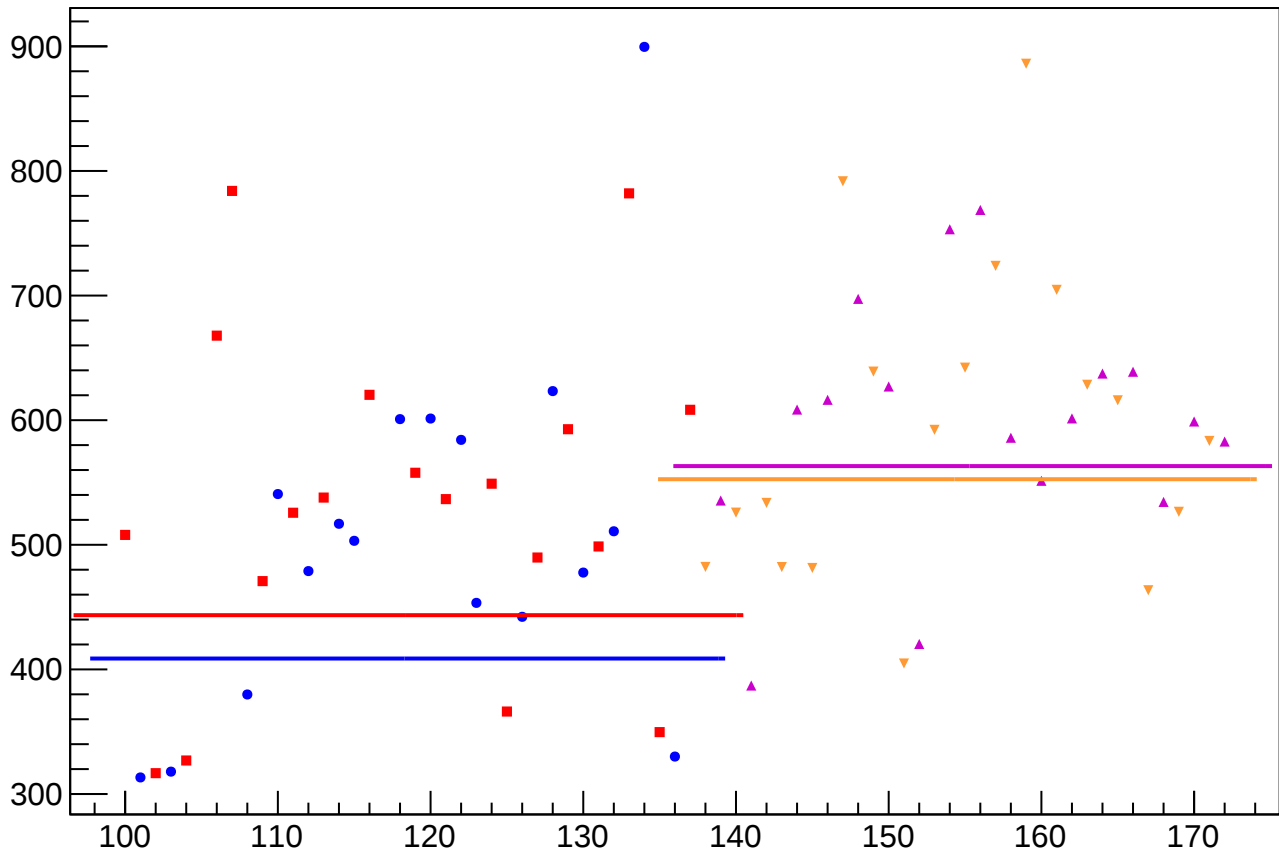
All: 229.436 $\pm$ 0.027 χ^2 /NDF: 4386480.5/70

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 ± 0.171	$\chi^2/\text{NDF}: 1494354557.3/16$	Left: 134190.601 ± 0.117	$\chi^2/\text{NDF}: 26060424.1/34$
Left Out: 134342.619 ± 0.161	$\chi^2/\text{NDF}: 13386141.1/17$	Right: 136313.462 ± 0.125	$\chi^2/\text{NDF}: 2582945594.6/16$
Right Out: 135982.842 ± 0.183	$\chi^2/\text{NDF}: 1082431147.9/18$	In: 135295.734 ± 0.120	$\chi^2/\text{NDF}: 1620094710.1/33$
Left In: 134024.008 ± 0.169	$\chi^2/\text{NDF}: 10815568.3/16$	Out: 135061.786 ± 0.121	$\chi^2/\text{NDF}: 1141085153.4/33$
		All: 135179.358 ± 0.085	$\chi^2/\text{NDF}: 276305960.1/34$

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729+/-0.121 χ^2/NDF : 823262.8/16

Left Out: 552.628+/-0.114 χ^2/NDF : 887232.9/17

Right Out: 443.521+/-0.129 χ^2/NDF : 917492.4/18

Left In: 563.155+/-0.119 χ^2/NDF : 748329.8/16

Left: 557.651+/-0.083 χ^2/NDF : 1639621.1/34

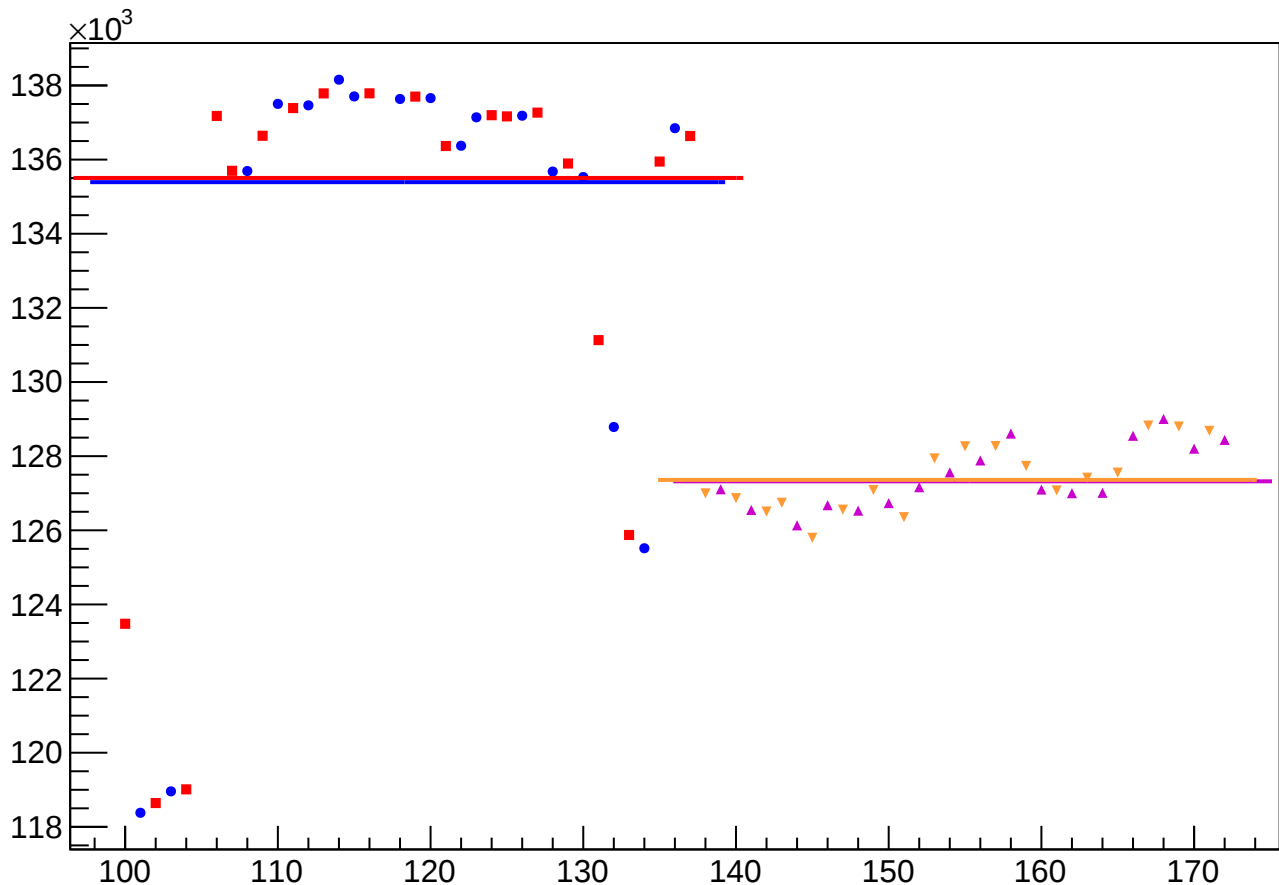
Right: 425.022+/-0.088 χ^2/NDF : 1779326.9/35

In: 487.054+/-0.085 χ^2/NDF : 2394655.3/33

Out: 504.789+/-0.086 χ^2/NDF : 2205330.7/36

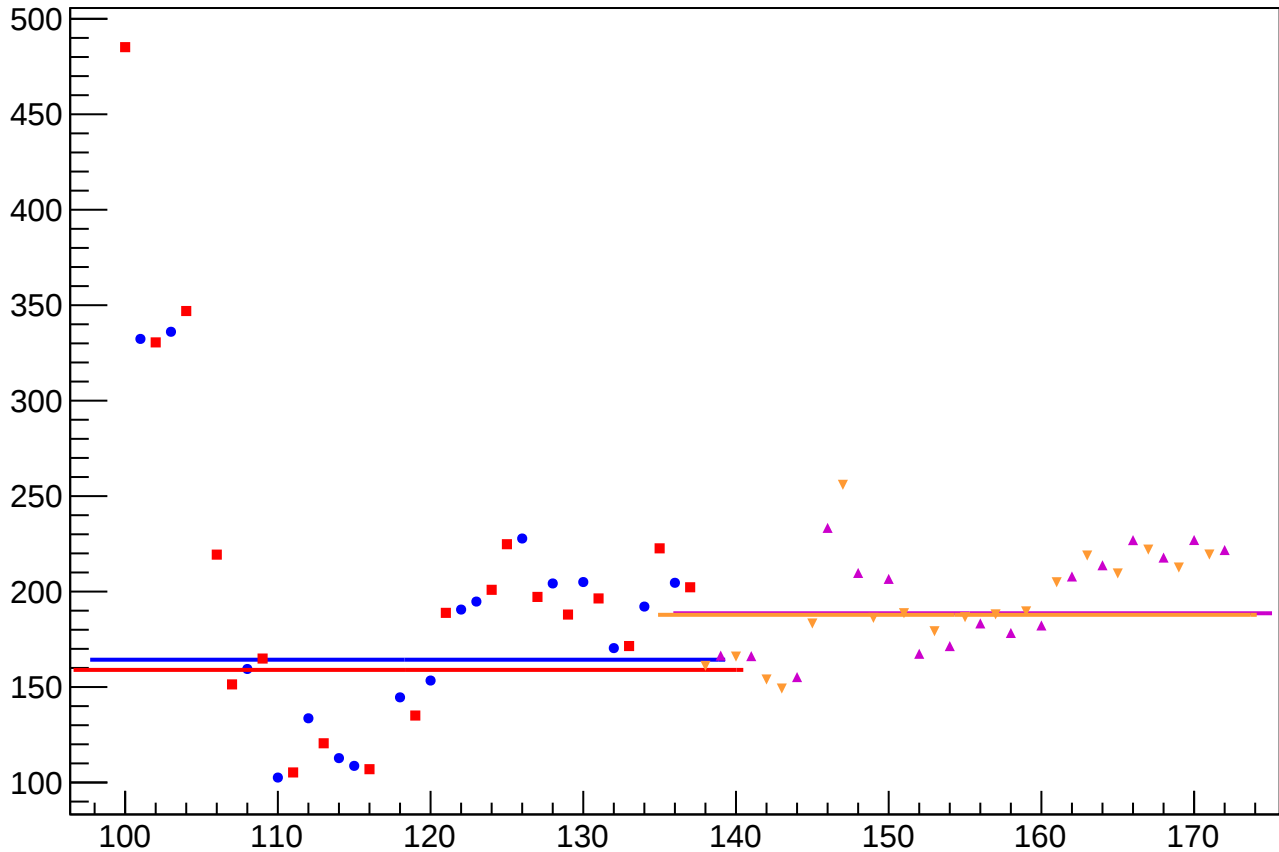
All: 495.877+/-0.060 χ^2/NDF : 4621590.4/70

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458+/-0.068	χ^2/NDF : 4580024611.0/16	Left: 127340.791+/-0.037	χ^2/NDF : 513302100.0/34
Left Out: 127359.528+/-0.052	χ^2/NDF : 268472161.0/17	Right: 135451.454+/-0.047	χ^2/NDF : 9312151817.8/34
Right Out: 135504.836+/-0.064	χ^2/NDF : 4730667469.8/18	In: 130344.185+/-0.042	χ^2/NDF : 13565270877.7/34
Left In: 127321.537+/-0.053	χ^2/NDF : 244567832.9/16	Out: 130583.259+/-0.041	χ^2/NDF : 14667662079.7/34
		All: 130467.409+/-0.029	χ^2/NDF : 282498111.0/34

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 187.831+/-0.037 χ^2/NDF : 451643.3/17

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 188.635+/-0.037 χ^2/NDF : 436813.0/16

Left: 188.227+/-0.026 χ^2/NDF : 888691.2/34

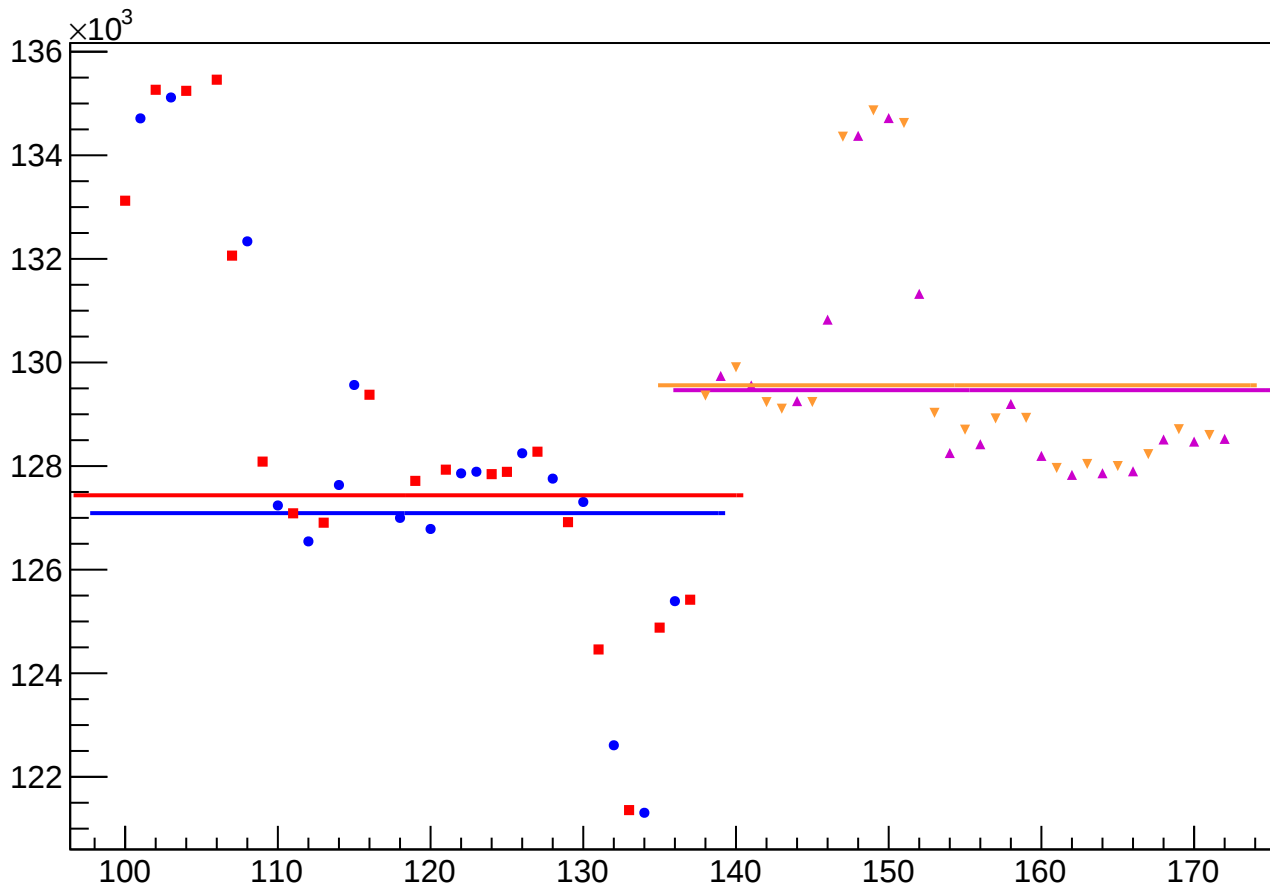
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 179.524+/-0.030 χ^2/NDF : 1826116.7/33

Out: 176.411+/-0.029 χ^2/NDF : 2078343.3/36

All: 177.920+/-0.021 χ^2/NDF : 3910183.7/70

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066

χ^2/NDF : 1717208780.6/16

Left: 129513.107+/-0.037

χ^2/NDF : 2479072957.9/3

Left Out: 129559.903+/-0.052

χ^2/NDF : 1352842305.0/17

Right: 127276.609+/-0.045

χ^2/NDF : 3810794624.3/3

Right Out: 127436.101+/-0.062

χ^2/NDF : 2079075713.9/18

In: 128543.742+/-0.041

χ^2/NDF : 3625986526.3/33

Out: 128670.243+/-0.040

χ^2/NDF : 4123902952.4/3

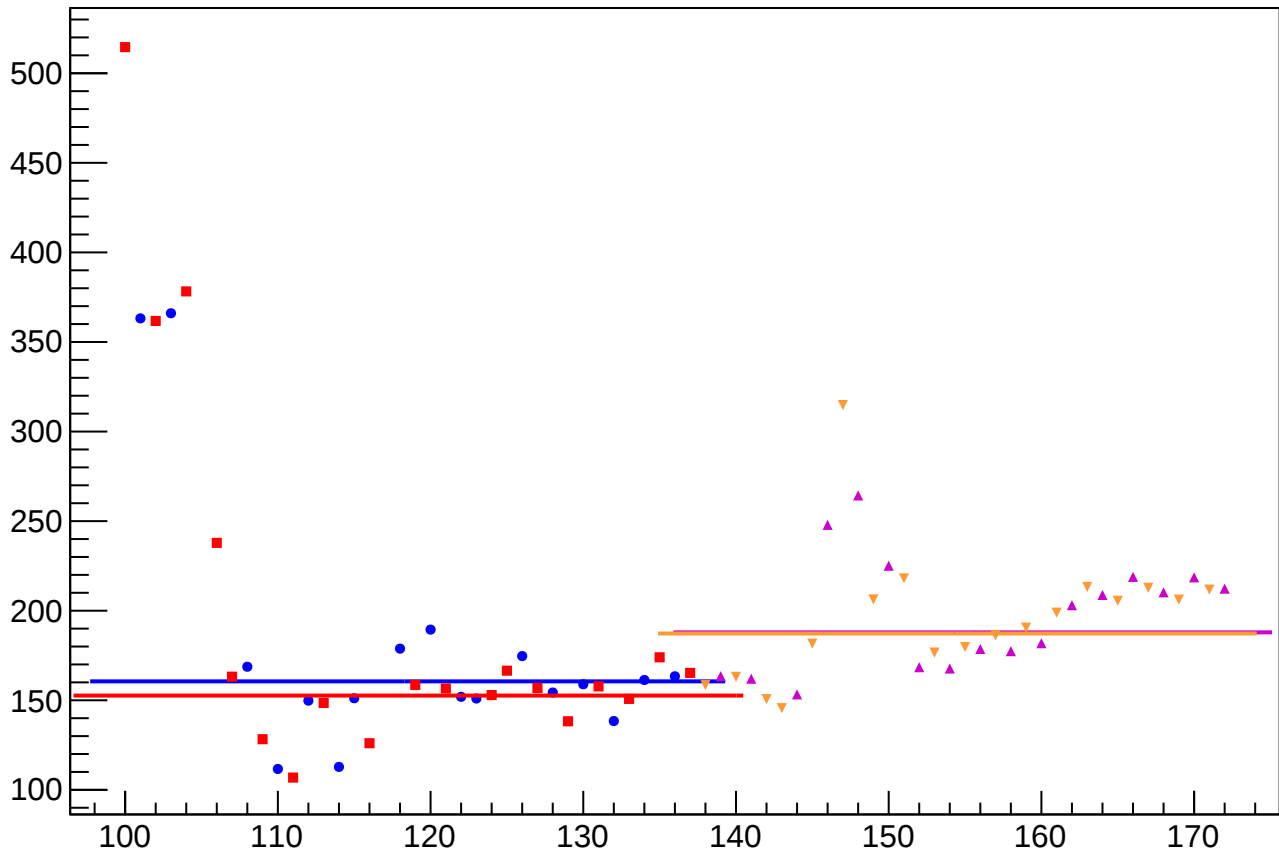
Left In: 129465.297+/-0.053

χ^2/NDF : 1124609263.9/16

All: 128609.296+/-0.029

χ^2/NDF : 775474847.9/17

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 187.271 $\pm$ 0.037 χ^2 /NDF: 636219.1/17

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 187.913 $\pm$ 0.037 χ^2 /NDF: 594230.9/16

Left: 187.589 $\pm$ 0.026 χ^2 /NDF: 1230599.2/34

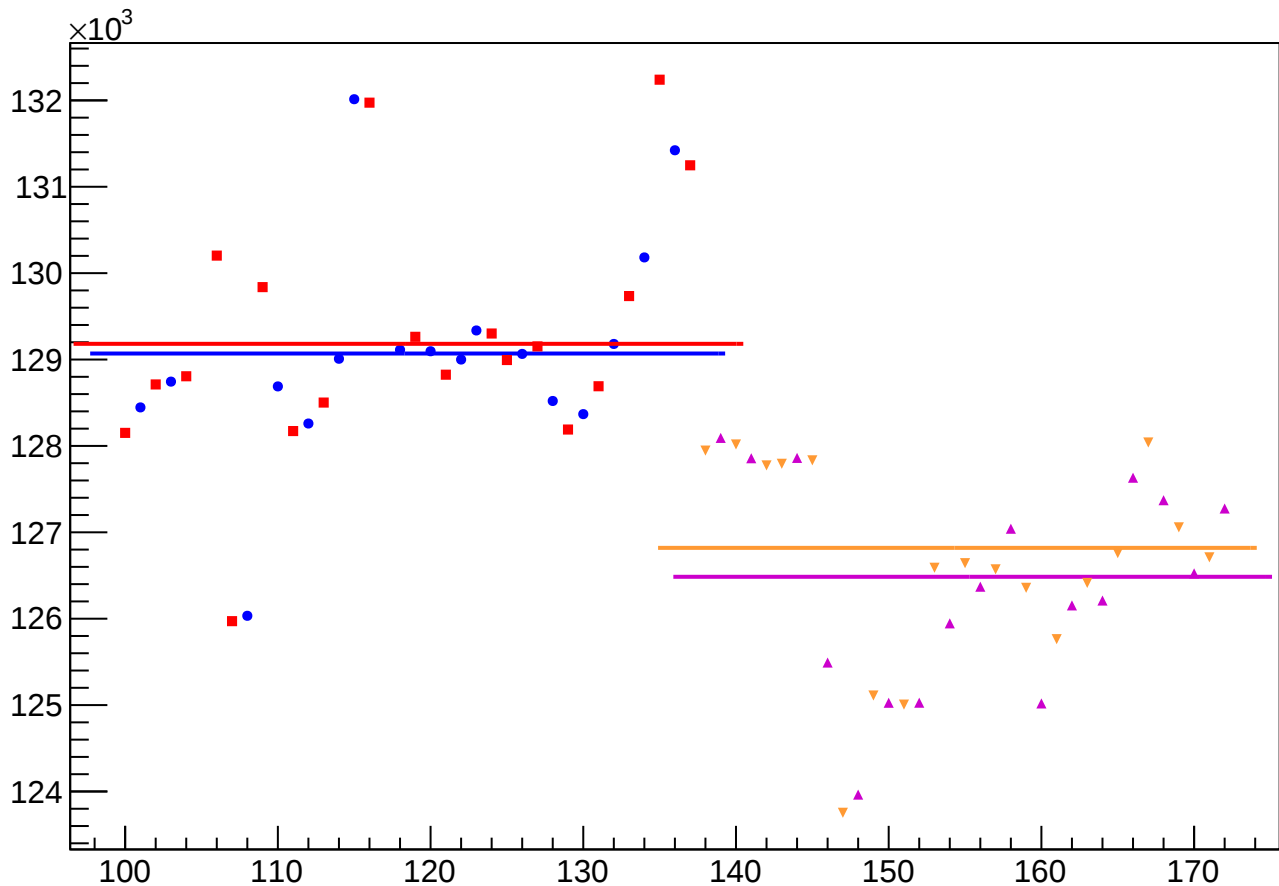
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 177.296 $\pm$ 0.029 χ^2 /NDF: 1745155.9/33

Out: 172.760 $\pm$ 0.028 χ^2 /NDF: 2090956.8/36

All: 174.945 $\pm$ 0.020 χ^2 /NDF: 3848607.8/70

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060 χ^2 /NDF: 476692316.5/16

Left Out: 126819.989 $\pm$ 0.051 χ^2 /NDF: 462433091.3/17

Right Out: 129181.887 $\pm$ 0.056 χ^2 /NDF: 625597399.6/18

Left In: 126485.088 $\pm$ 0.051 χ^2 /NDF: 552329962.2/16

Left: 126654.986 $\pm$ 0.036 χ^2 /NDF: 1036401827.9/3

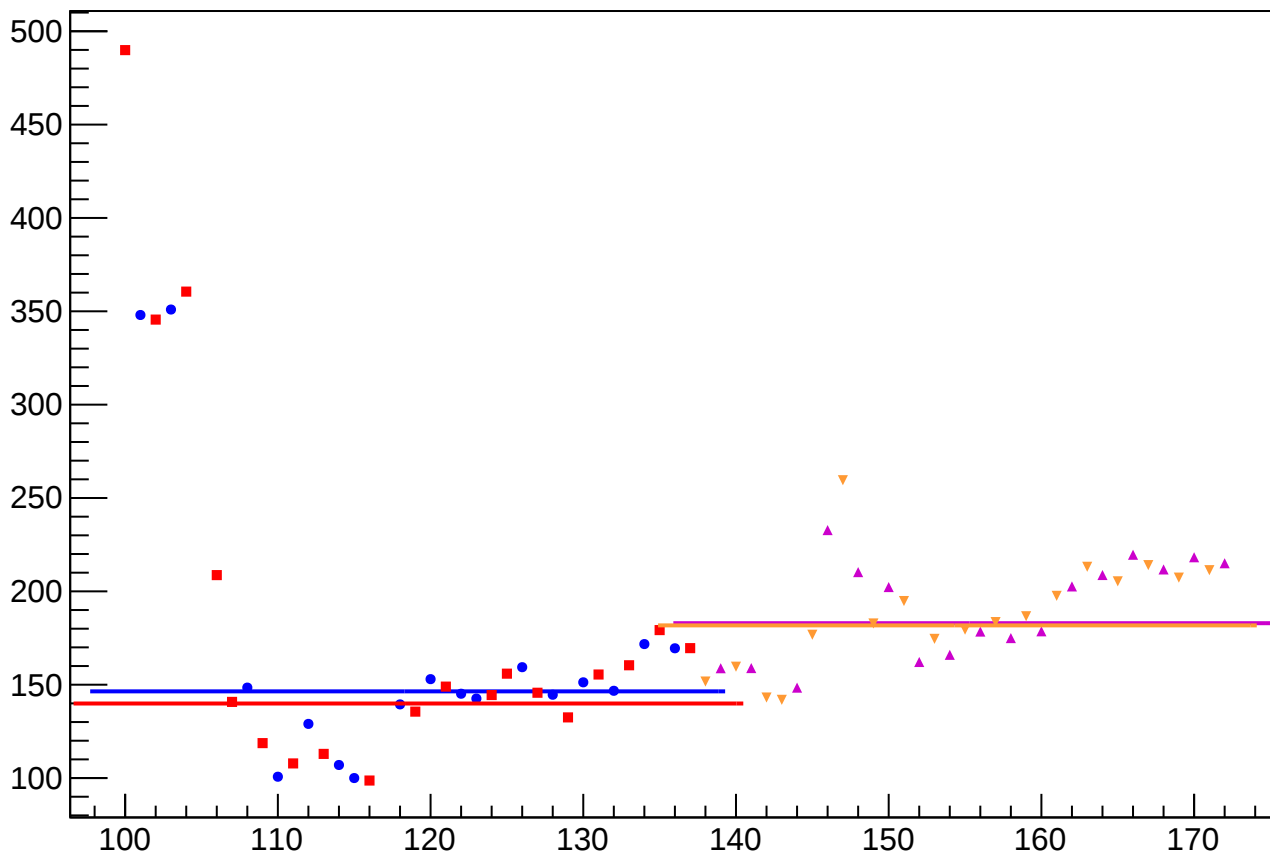
Right: 129129.710 $\pm$ 0.041 χ^2 /NDF: 1104150743.5/17

In: 127572.480 $\pm$ 0.039 χ^2 /NDF: 2097844147.2/3

Out: 127878.181 $\pm$ 0.038 χ^2 /NDF: 2066725794.9/3

All: 127731.251 $\pm$ 0.027 χ^2 /NDF: 419643472.2/3

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 181.775 $\pm$ 0.036 χ^2 /NDF: 548082.1/17

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 182.945 $\pm$ 0.036 χ^2 /NDF: 489763.6/16

Left: 182.351 $\pm$ 0.025 χ^2 /NDF: 1038373.6/34

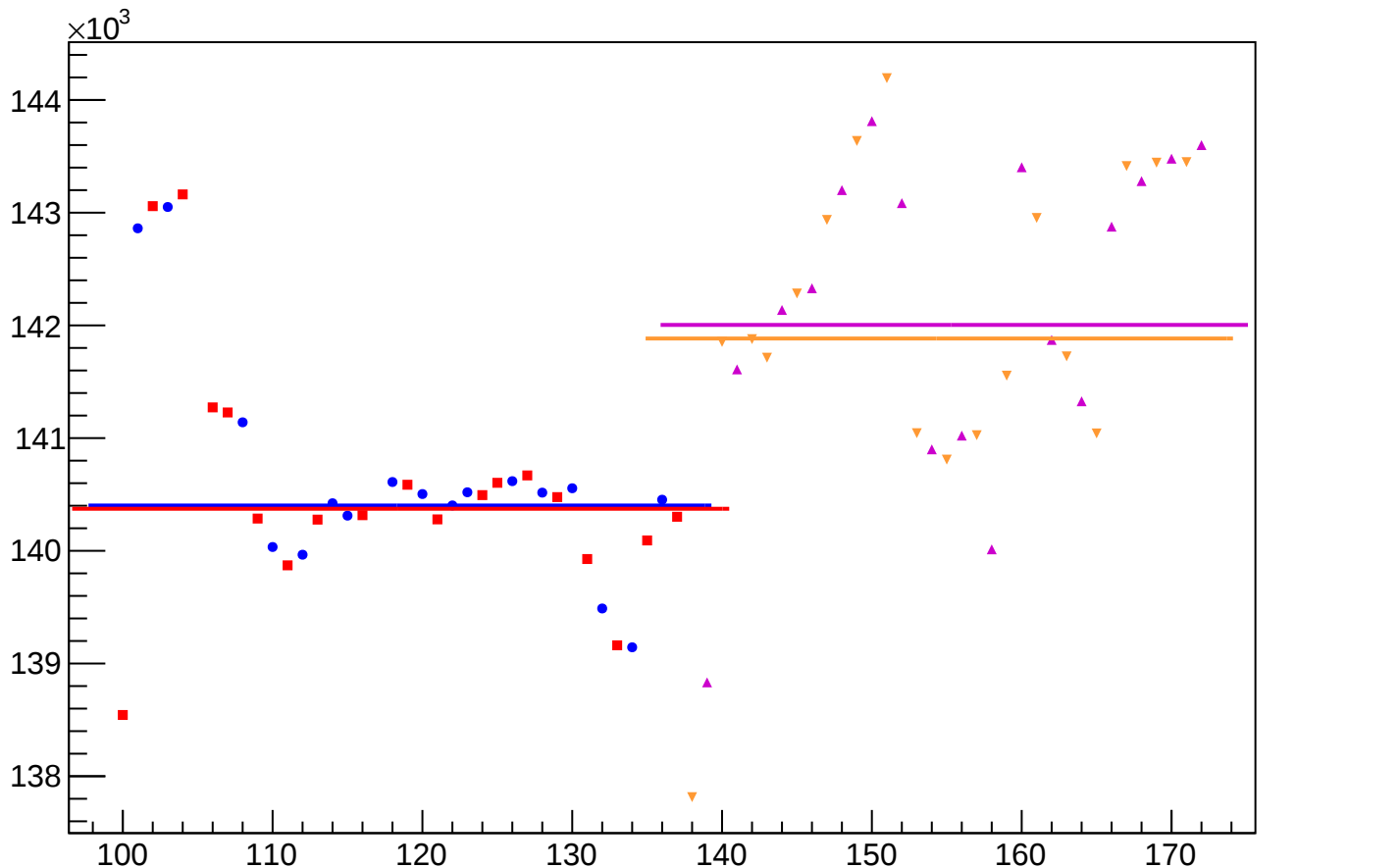
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 167.585 $\pm$ 0.028 χ^2 /NDF: 1981047.4/33

Out: 163.027 $\pm$ 0.027 χ^2 /NDF: 2366065.9/36

All: 165.218 $\pm$ 0.019 χ^2 /NDF: 4361282.7/70

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 141943.291 $\pm$ 0.041

χ^2 /NDF: 1277907461.0/3

Right: 140386.544 $\pm$ 0.044

χ^2 /NDF: 188034057.1/3

Left Out: 141883.608 $\pm$ 0.058

χ^2 /NDF: 703996476.8/17

Right Out: 140373.163 $\pm$ 0.060

χ^2 /NDF: 99854533.3/18

Left In: 142004.138 $\pm$ 0.059

χ^2 /NDF: 571796066.4/16

In: 141273.933 $\pm$ 0.043

χ^2 /NDF: 997239193.5/33

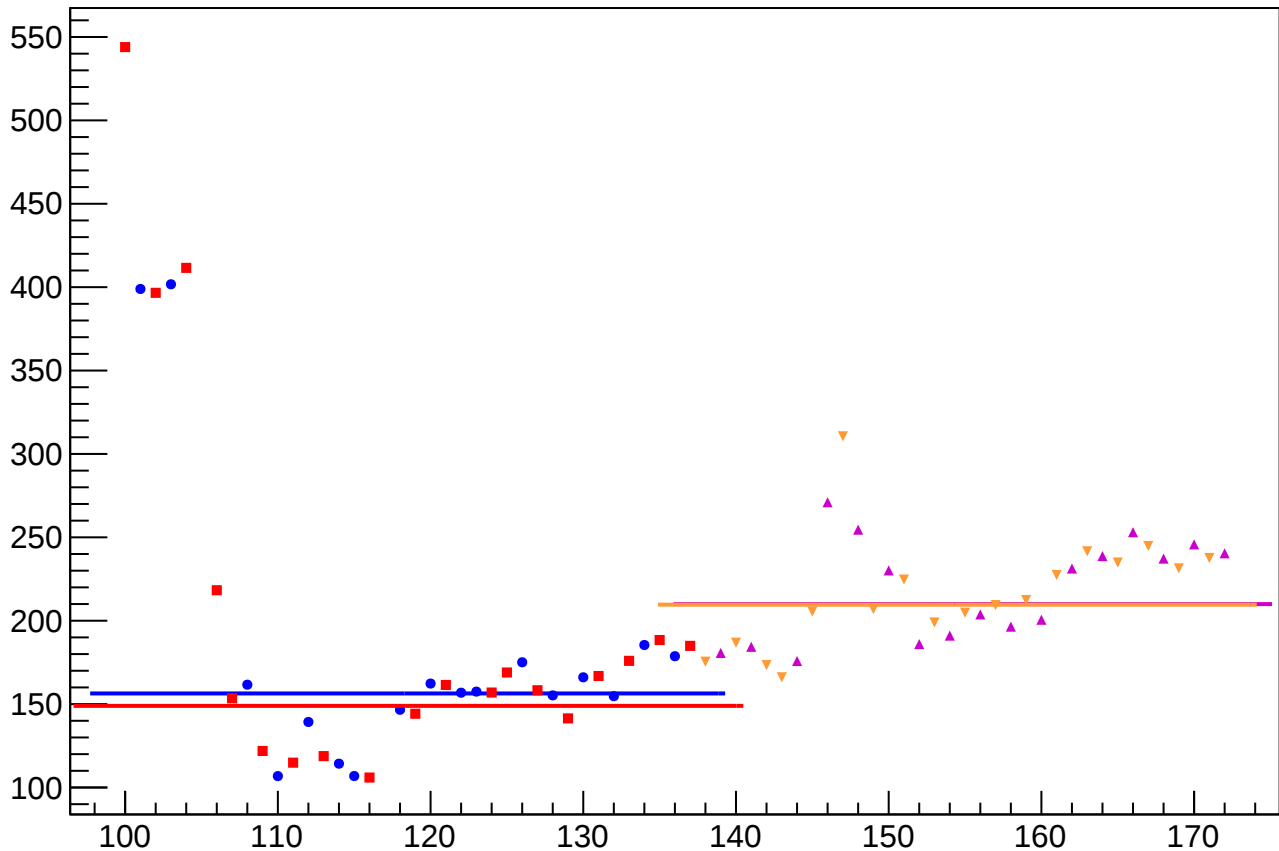
Out: 141147.931 $\pm$ 0.042

χ^2 /NDF: 1130540379.7/3

All: 141208.461 $\pm$ 0.030

χ^2 /NDF: 213215103

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 209.638 $\pm$ 0.041 χ^2 /NDF: 494355.6/17

Right Out: 148.949 $\pm$ 0.042 χ^2 /NDF: 1307651.5/18

Left In: 209.964 $\pm$ 0.042 χ^2 /NDF: 465671.0/16

Left: 209.799 $\pm$ 0.029 χ^2 /NDF: 960057.4/34

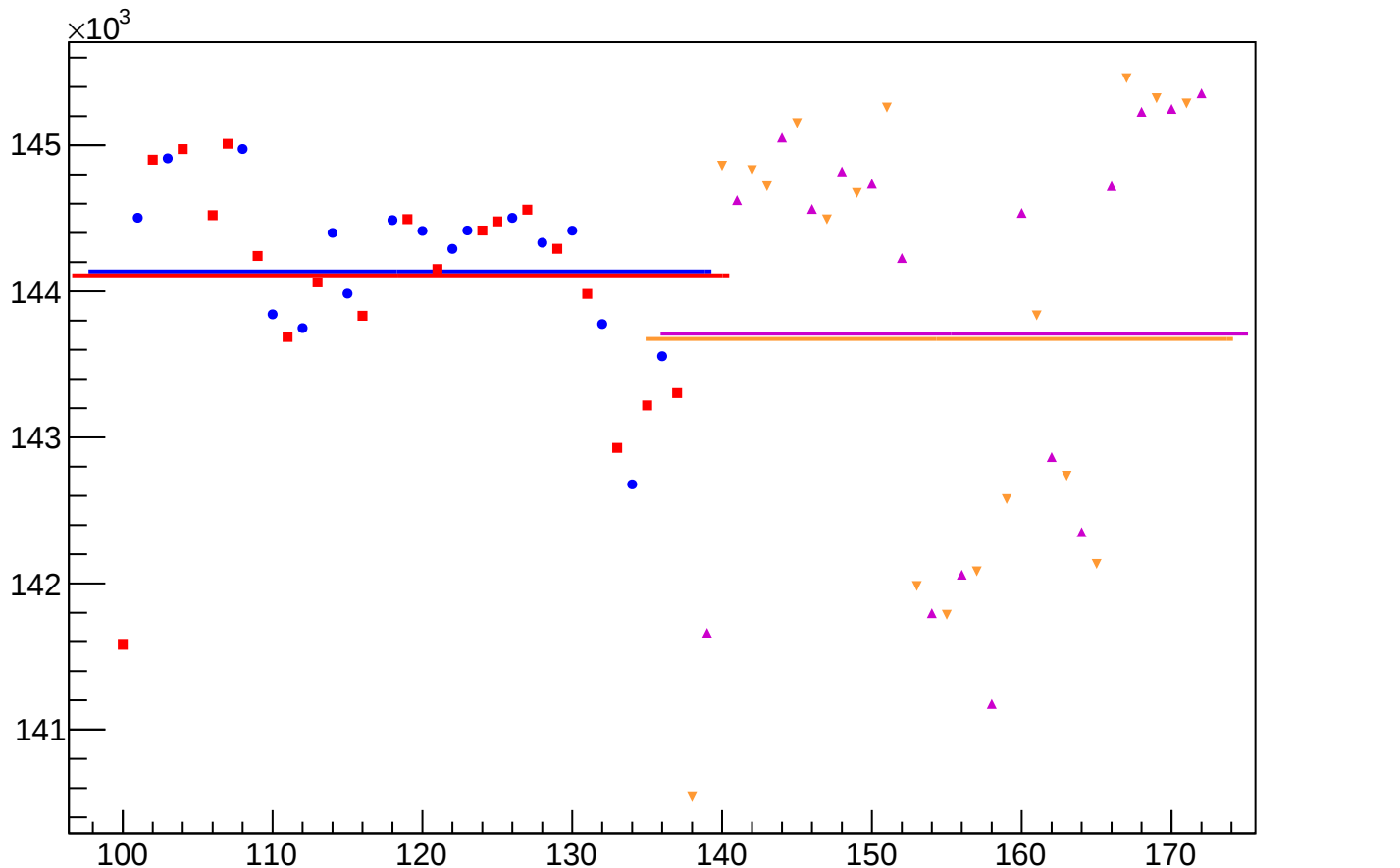
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 185.548 $\pm$ 0.031 χ^2 /NDF: 2374856.1/33

Out: 180.079 $\pm$ 0.030 χ^2 /NDF: 2856813.8/36

All: 182.706 $\pm$ 0.021 χ^2 /NDF: 5248140.6/70

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067 χ^2 /NDF: 47069480.3/16

Left Out: 143673.974 $\pm$ 0.058 χ^2 /NDF: 741025031.3/17

Right Out: 144109.419 $\pm$ 0.062 χ^2 /NDF: 65258627.2/18

Left In: 143710.705 $\pm$ 0.059 χ^2 /NDF: 621566418.4/16

Left: 143692.086 $\pm$ 0.041 χ^2 /NDF: 1362789048.6/3

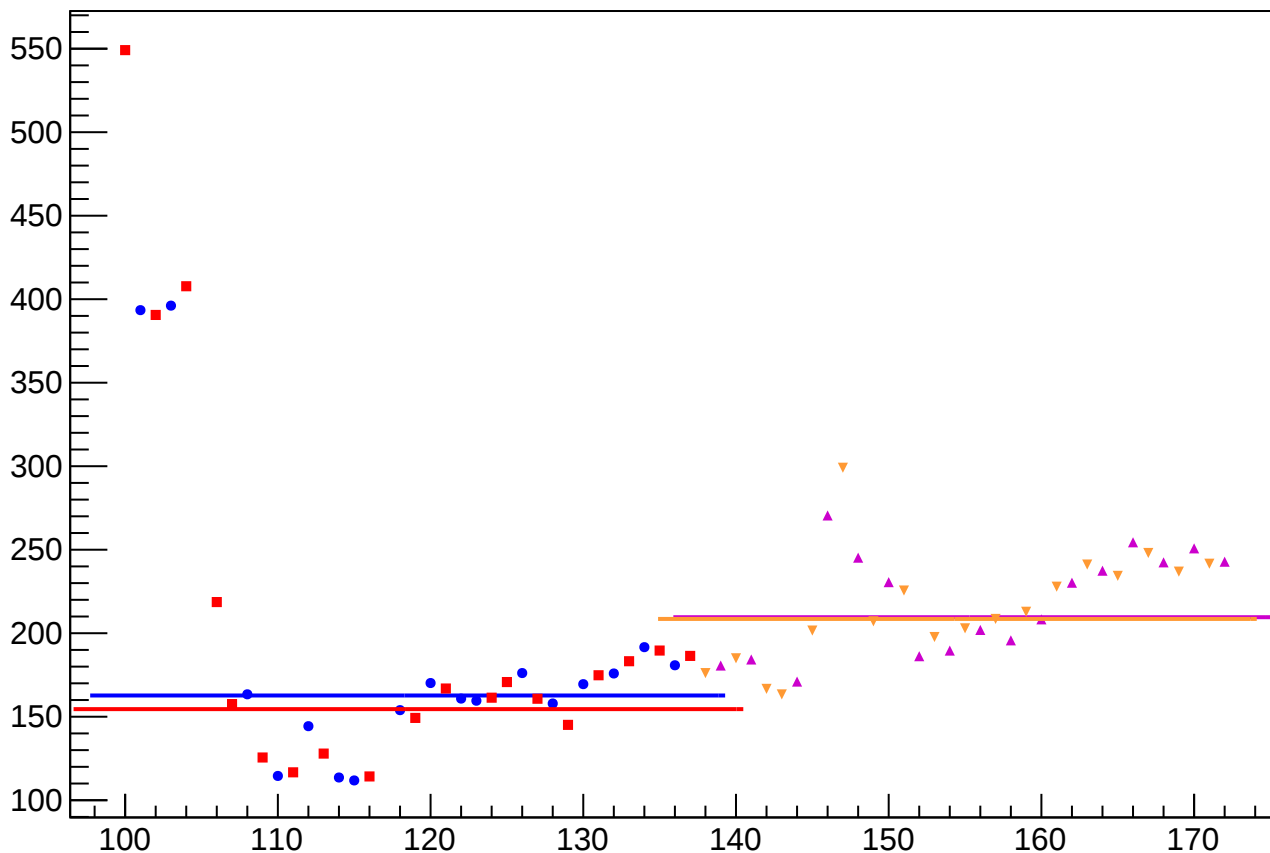
Right: 144121.752 $\pm$ 0.045 χ^2 /NDF: 112414138.5/3

In: 143896.623 $\pm$ 0.044 χ^2 /NDF: 691489359.7/33

Out: 143877.746 $\pm$ 0.042 χ^2 /NDF: 832639321.6/36

All: 143886.788 $\pm$ 0.031 χ^2 /NDF: 152422397

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2/NDF : 1066482.0/16

Left Out: 208.558 $\pm$ 0.041 χ^2/NDF : 526410.2/17

Right Out: 154.547 $\pm$ 0.044 χ^2/NDF : 1217495.9/18

Left In: 209.586 $\pm$ 0.042 χ^2/NDF : 492860.6/16

Left: 209.065 $\pm$ 0.029 χ^2/NDF : 1019580.5/34

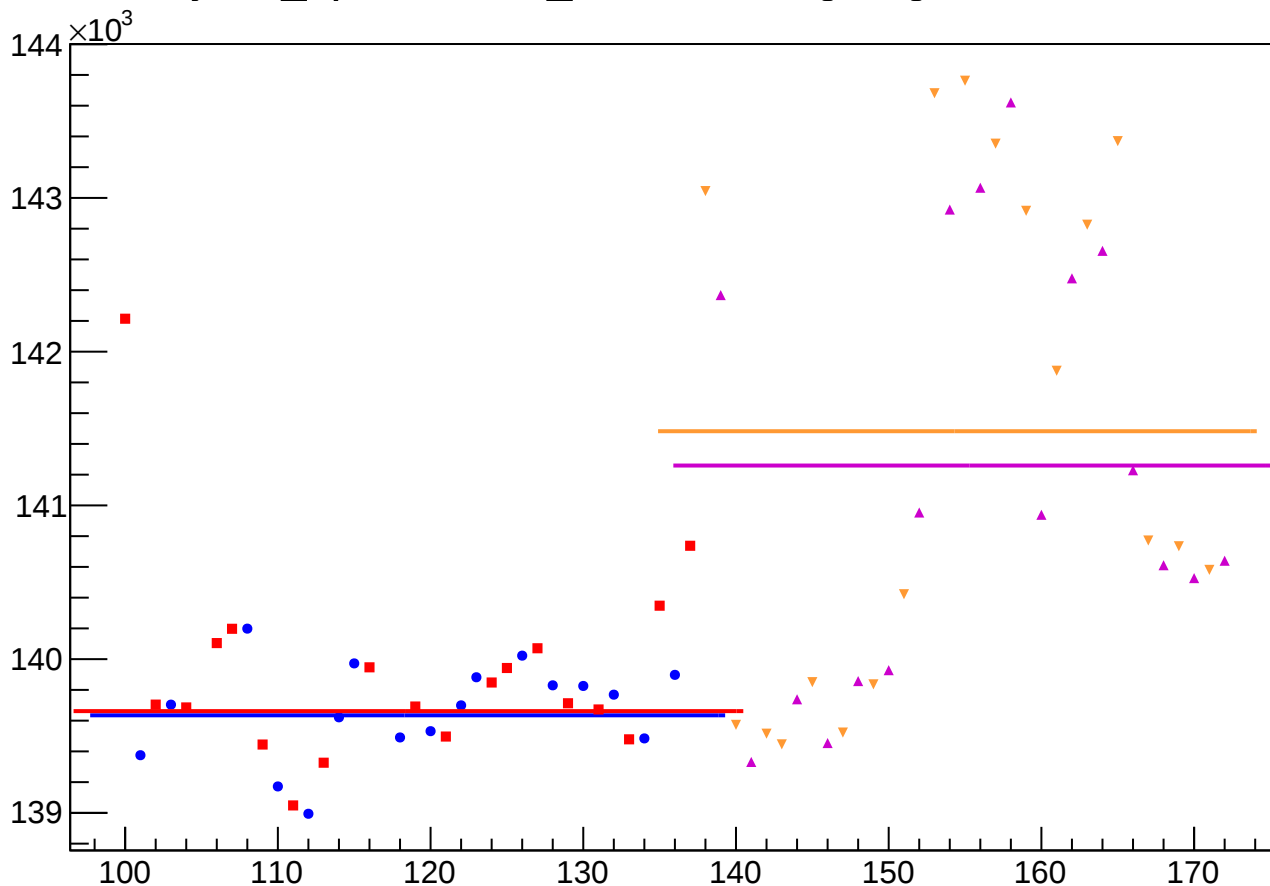
Right: 158.320 $\pm$ 0.032 χ^2/NDF : 2300078.3/35

In: 189.102 $\pm$ 0.031 χ^2/NDF : 2114209.0/33

Out: 183.283 $\pm$ 0.030 χ^2/NDF : 2554873.9/36

All: 186.070 $\pm$ 0.022 χ^2/NDF : 4687190.6/70

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068

χ^2/NDF : 24844912.0/16

Left Out: 141482.584+/-0.060

χ^2/NDF : 730702623.4/17

Right Out: 139661.970+/-0.063

χ^2/NDF : 38372985.0/18

Left In: 141259.354+/-0.060

χ^2/NDF : 530444784.0/16

Left: 141371.263+/-0.043

χ^2/NDF : 1267974208.3/3

Right: 139649.322+/-0.046

χ^2/NDF : 63304699.0/35

In: 140538.989+/-0.045

χ^2/NDF : 875115394.2/33

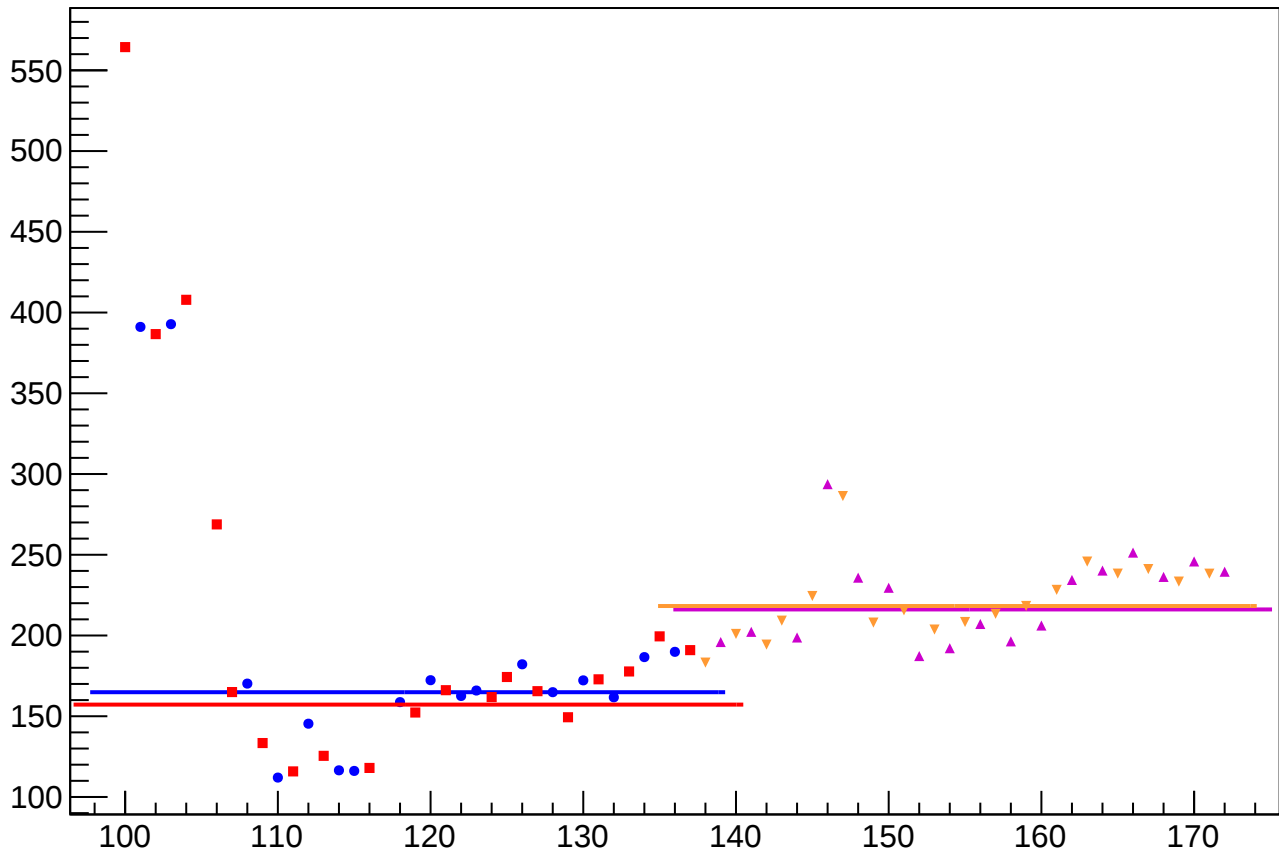
Out: 140612.154+/-0.044

χ^2/NDF : 1204430067.8/3

All: 140576.845+/-0.031

χ^2/NDF : 208090529

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 218.255 $\pm$ 0.043 χ^2 /NDF: 245310.2/17

Right Out: 157.207 $\pm$ 0.045 χ^2 /NDF: 1245030.9/18

Left In: 216.135 $\pm$ 0.043 χ^2 /NDF: 337749.8/16

Left: 217.198 $\pm$ 0.030 χ^2 /NDF: 584291.3/34

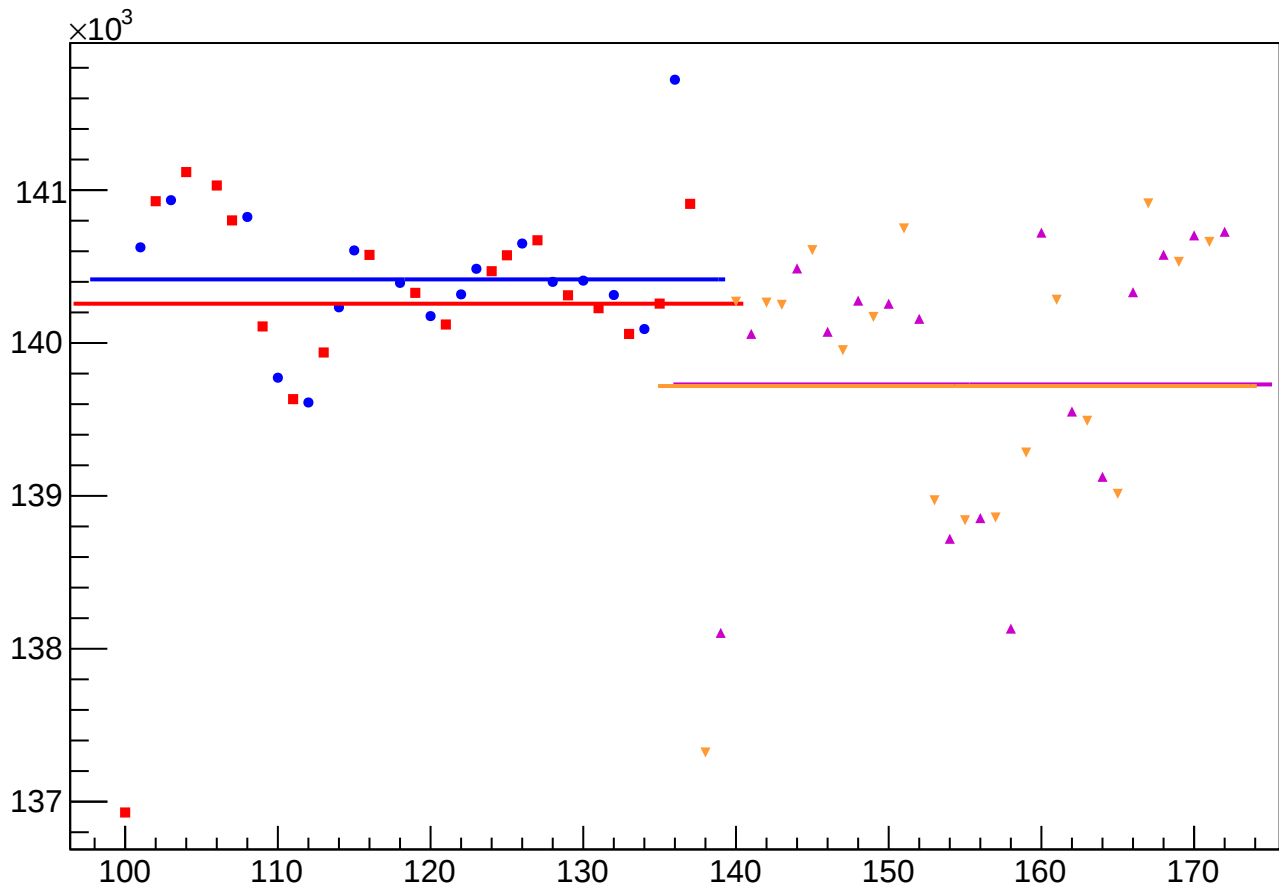
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 193.411 $\pm$ 0.032 χ^2 /NDF: 2040560.9/33

Out: 189.068 $\pm$ 0.031 χ^2 /NDF: 2469334.5/36

All: 191.164 $\pm$ 0.022 χ^2 /NDF: 4519475.8/70

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068

χ^2/NDF : 69975821.3/16

Left Out: 139718.522 $\pm$ 0.057

χ^2/NDF : 292966911.0/17

Right Out: 140256.992 $\pm$ 0.063

χ^2/NDF : 38063371.4/18

Left In: 139728.921 $\pm$ 0.058

χ^2/NDF : 250081515.5/16

Left: 139723.642 $\pm$ 0.041

χ^2/NDF : 543064900.4/34

Right: 140330.188 $\pm$ 0.046

χ^2/NDF : 110959487.0/3

In: 140014.761 $\pm$ 0.044

χ^2/NDF : 379007289.5/33

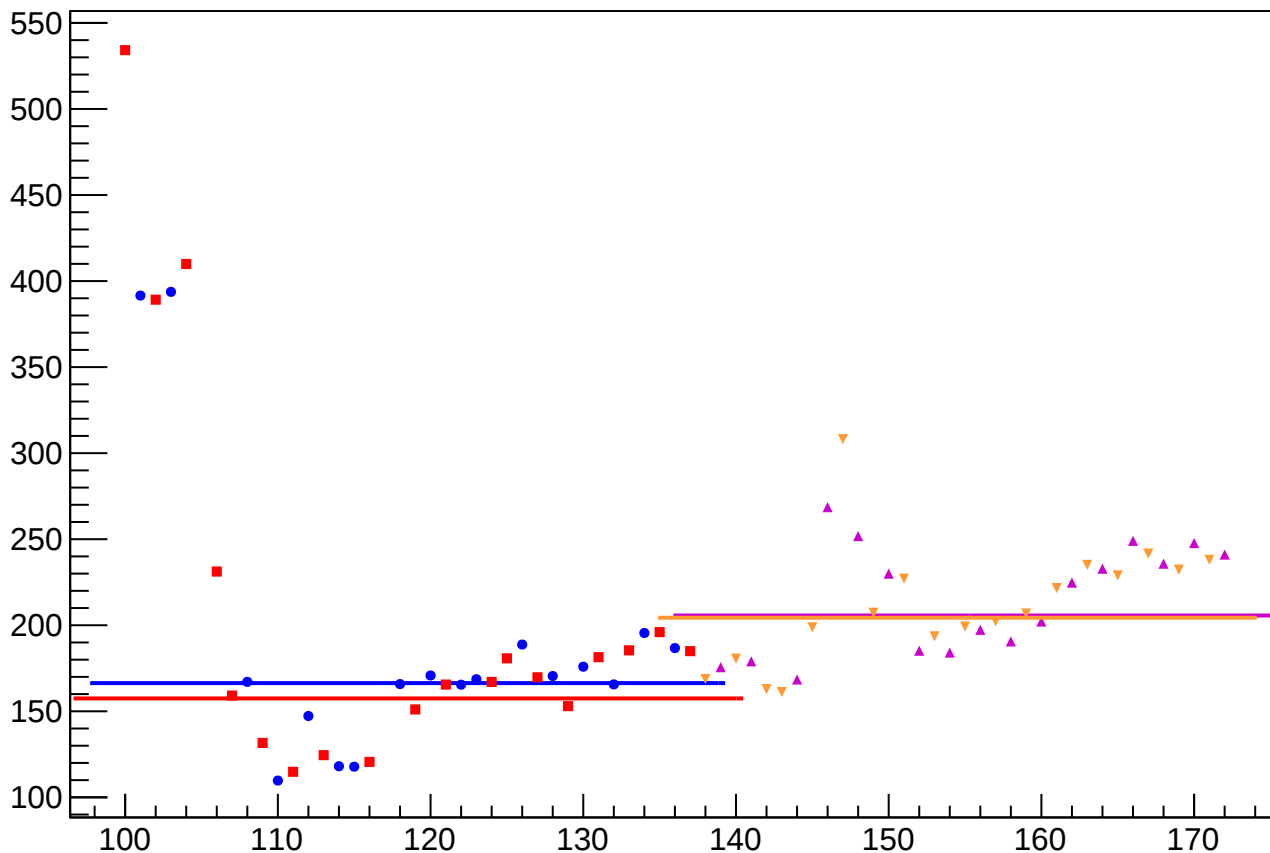
Out: 139959.604 $\pm$ 0.042

χ^2/NDF : 371193321.6/36

All: 139985.995 $\pm$ 0.031

χ^2/NDF : 751016028

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2 /NDF: 1080964.8/16

Left Out: 204.353 $\pm$ 0.040 χ^2 /NDF: 574952.2/17

Right Out: 157.475 $\pm$ 0.045 χ^2 /NDF: 1229886.8/18

Left In: 205.653 $\pm$ 0.041 χ^2 /NDF: 534302.6/16

Left: 204.994 $\pm$ 0.029 χ^2 /NDF: 1109769.8/34

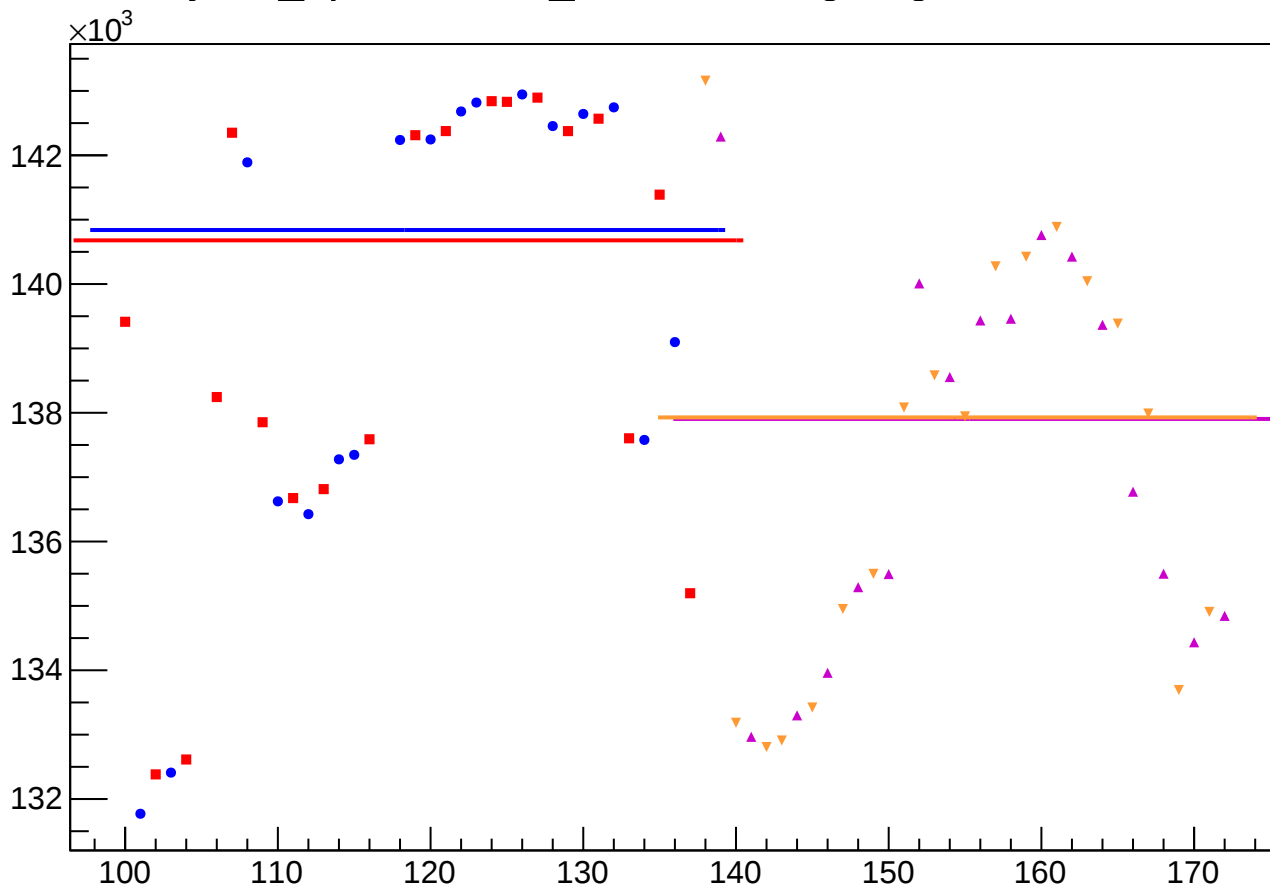
Right: 161.576 $\pm$ 0.033 χ^2 /NDF: 2329186.5/35

In: 189.319 $\pm$ 0.031 χ^2 /NDF: 2000254.7/33

Out: 183.365 $\pm$ 0.030 χ^2 /NDF: 2413643.3/36

All: 186.214 $\pm$ 0.022 χ^2 /NDF: 4432903.3/70

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100 χ^2 /NDF: 822682996.3/16

Left Out: 137928.017 $\pm$ 0.084 χ^2 /NDF: 1635024241.5/17

Right Out: 140678.513 $\pm$ 0.099 χ^2 /NDF: 840695274.4/18

Left In: 137904.494 $\pm$ 0.084 χ^2 /NDF: 1332308099.6/16

Left: 137916.356 $\pm$ 0.059 χ^2 /NDF: 2967371680.3/3

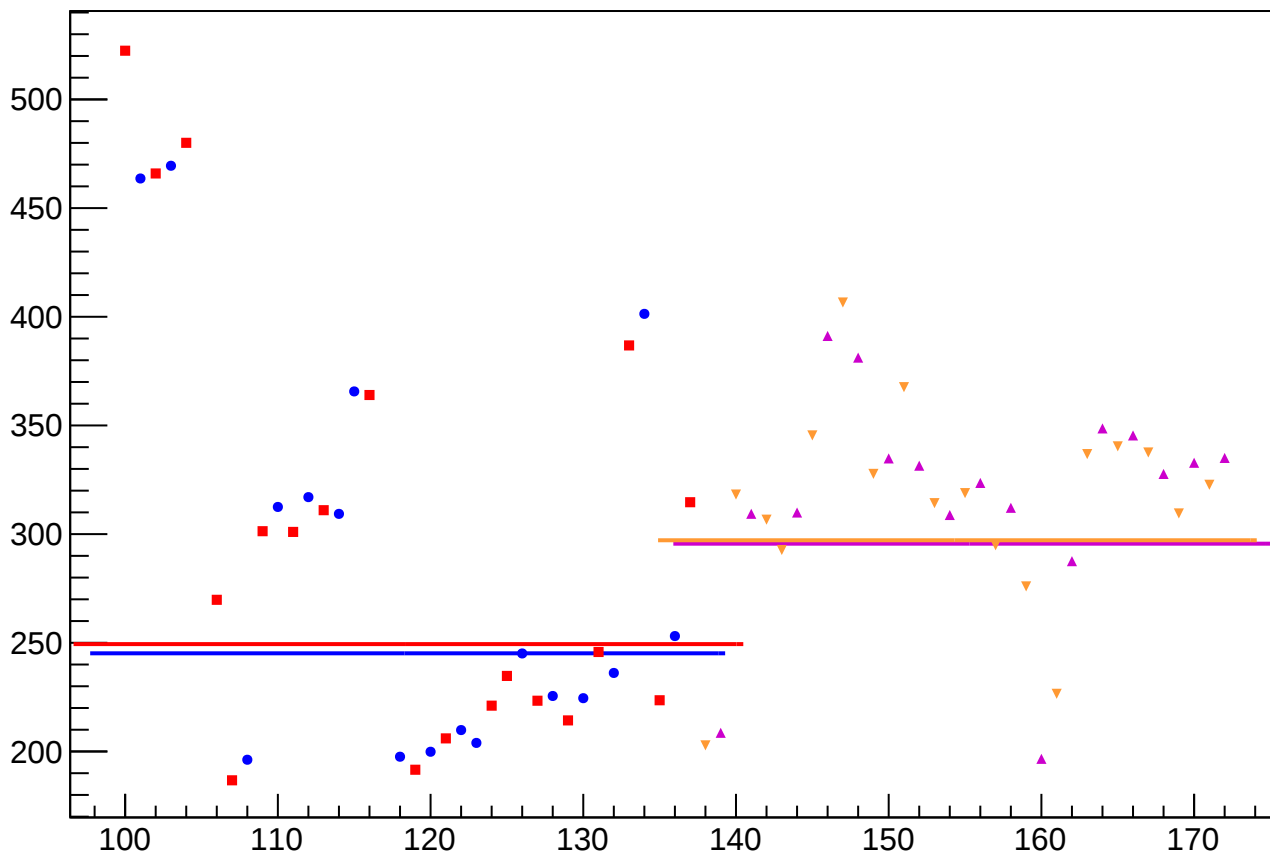
Right: 140758.088 $\pm$ 0.070 χ^2 /NDF: 1664679717.2/3

In: 139122.098 $\pm$ 0.064 χ^2 /NDF: 2658760947.0/3

Out: 139070.007 $\pm$ 0.064 χ^2 /NDF: 2926206445.7/3

All: 139095.823 $\pm$ 0.045 χ^2 /NDF: 558529719

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 297.170 $\pm$ 0.059 χ^2 /NDF: 770959.7/17

Right Out: 249.397 $\pm$ 0.070 χ^2 /NDF: 1009731.2/18

Left In: 295.602 $\pm$ 0.060 χ^2 /NDF: 966131.0/16

Left: 296.393 $\pm$ 0.042 χ^2 /NDF: 1737440.3/34

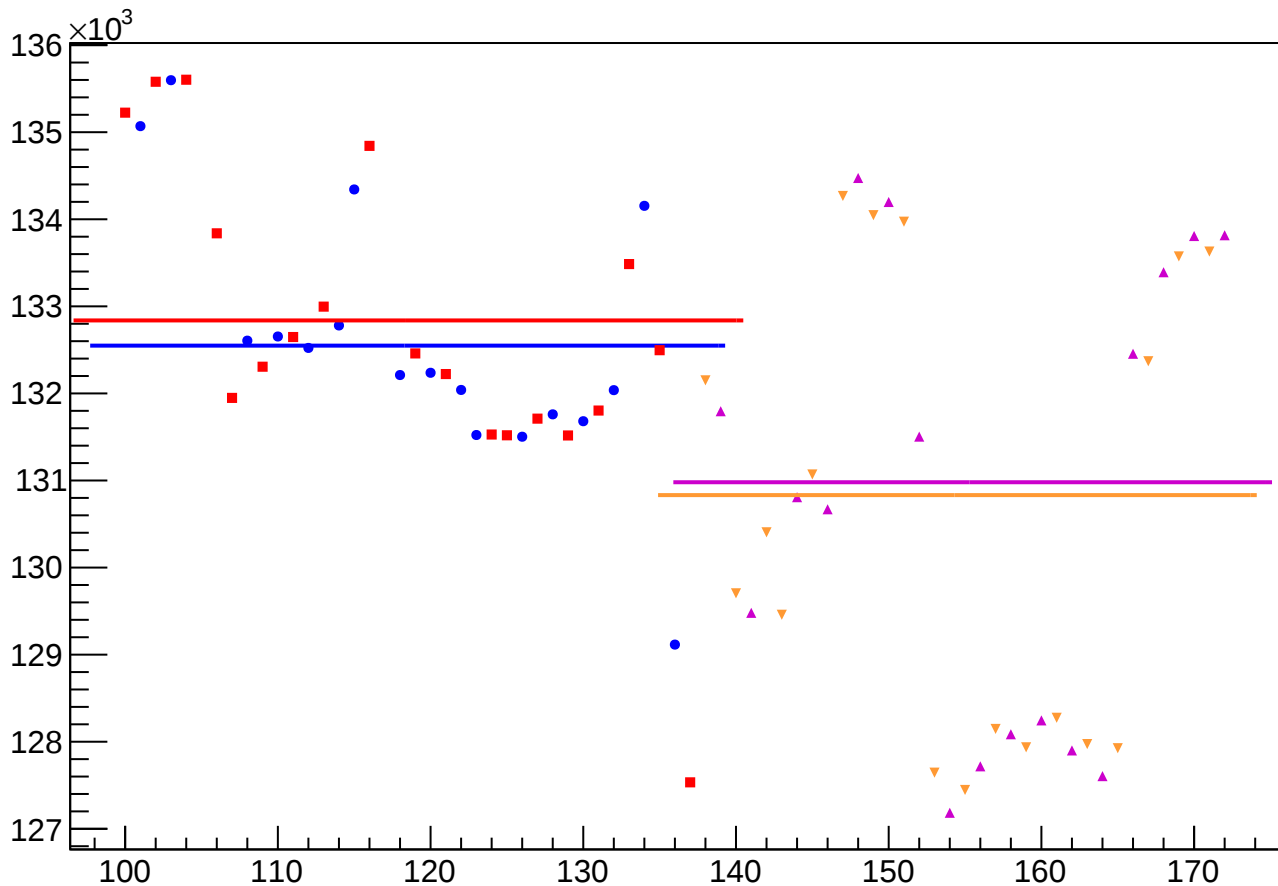
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 274.673 $\pm$ 0.046 χ^2 /NDF: 2133308.9/33

Out: 277.335 $\pm$ 0.045 χ^2 /NDF: 2052499.1/36

All: 276.016 $\pm$ 0.032 χ^2 /NDF: 4187530.7/70

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2 /NDF: 161115079.9/16

Left Out: 130832.265 $\pm$ 0.072 χ^2 /NDF: 953004478.9/17

Right Out: 132838.294 $\pm$ 0.107 χ^2 /NDF: 149611447.6/18

Left In: 130979.986 $\pm$ 0.075 χ^2 /NDF: 913828318.2/16

Left: 130903.361 $\pm$ 0.052 χ^2 /NDF: 1868863493.8/3

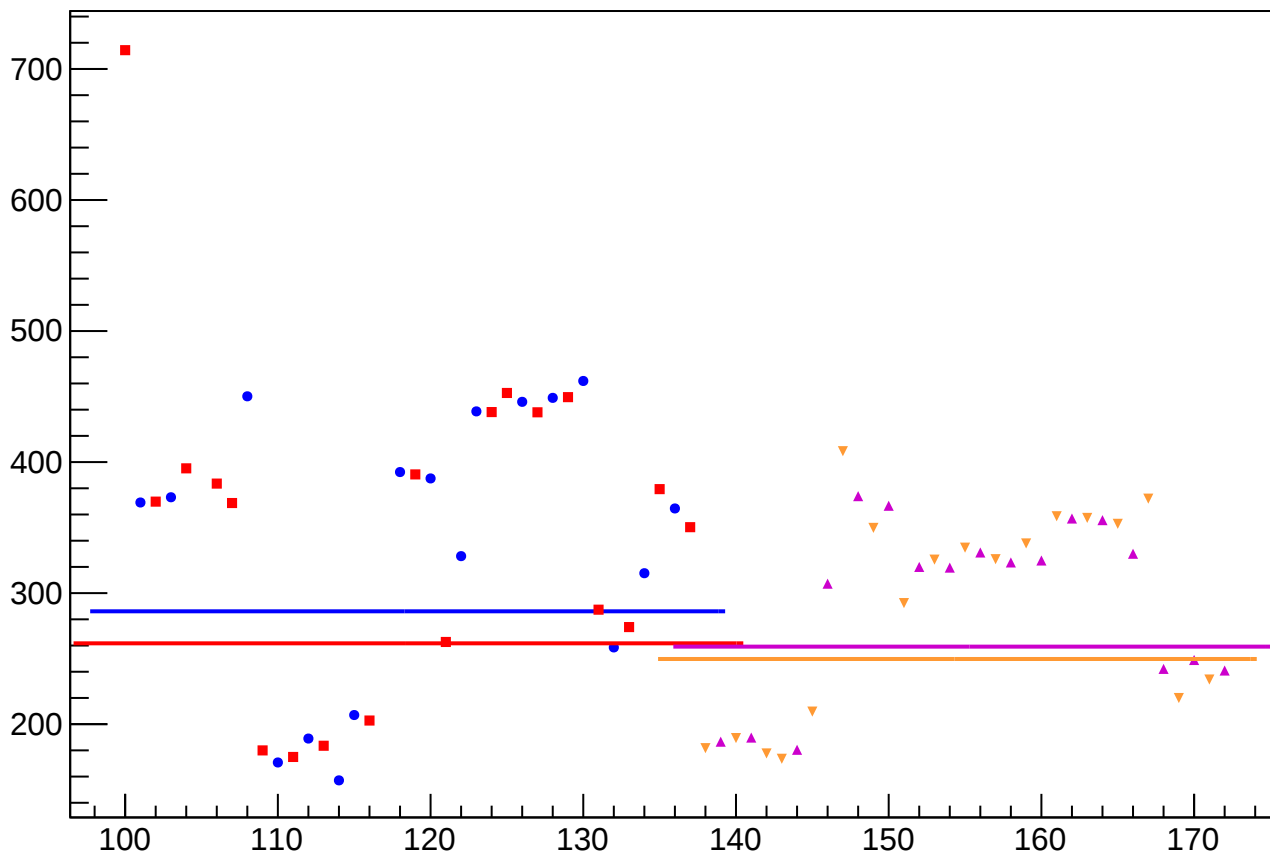
Right: 132709.226 $\pm$ 0.080 χ^2 /NDF: 313982981.1/3

In: 131421.136 $\pm$ 0.063 χ^2 /NDF: 1199111325.0/3

Out: 131455.669 $\pm$ 0.060 χ^2 /NDF: 1344418178.4/3

All: 131439.411 $\pm$ 0.043 χ^2 /NDF: 25436870

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122+/-0.084 χ^2/NDF : 1525266.4/16

Left Out: 249.735+/-0.051 χ^2/NDF :2138276.6/17

Right Out: 261.686+/-0.076 χ^2/NDF : 1623174.1/18

Left In: 259.167+/-0.053 χ^2/NDF :1656436.6/16

Left: 254.275+/-0.037 χ^2/NDF : 3811269.5/34

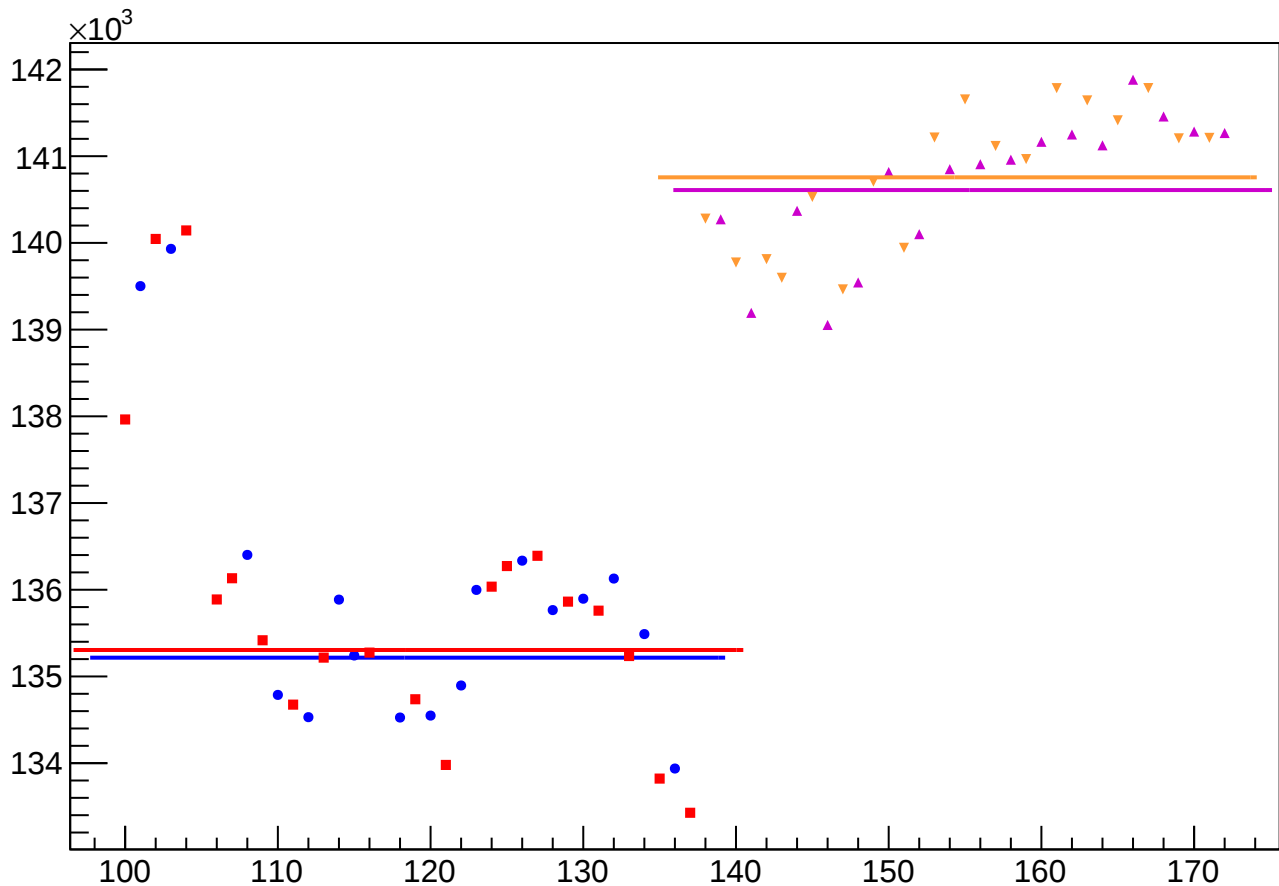
Right: 272.584+/-0.056 χ^2/NDF : 3194872.3/35

In: 266.746+/-0.045 χ^2/NDF :3255007.5/33

Out: 253.449+/-0.042 χ^2/NDF :3778614.6/36

All: 259.710+/-0.031 χ^2/NDF : 7080327.8/70

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054

χ^2 /NDF: 371347707.3/16

Left: 140685.609 $\pm$ 0.038

χ^2 /NDF: 383472070.2/34

Left Out: 140756.178 $\pm$ 0.053

χ^2 /NDF: 201363151.5/17

Right: 135263.557 $\pm$ 0.037

χ^2 /NDF: 730392205.8/34

Right Out: 135305.135 $\pm$ 0.051

χ^2 /NDF: 357636841.6/18

In: 137868.424 $\pm$ 0.039

χ^2 /NDF: 5390048188.0/34

Out: 137923.866 $\pm$ 0.037

χ^2 /NDF: 6016883073.7/34

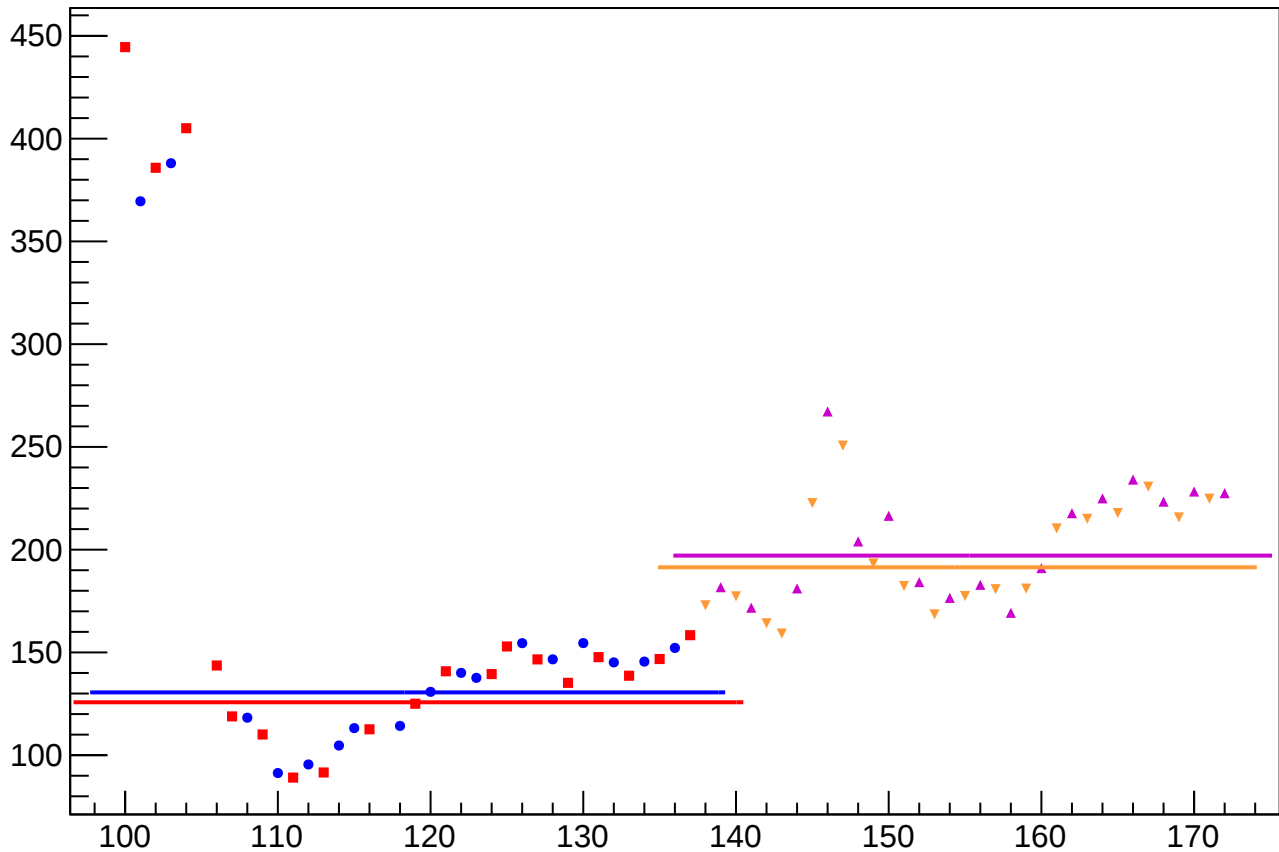
Left In: 140609.422 $\pm$ 0.055

χ^2 /NDF: 178447776.4/16

All: 137897.528 $\pm$ 0.027

χ^2 /NDF: 114080057.0/16

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552+/-0.038 χ^2/NDF : 1373104.9/16

Left Out: 191.421+/-0.038 χ^2/NDF : 414455.6/17

Right Out: 125.746+/-0.036 χ^2/NDF : 1440002.5/18

Left In: 197.115+/-0.039 χ^2/NDF : 398069.9/16

Left: 194.159+/-0.027 χ^2/NDF : 823547.4/34

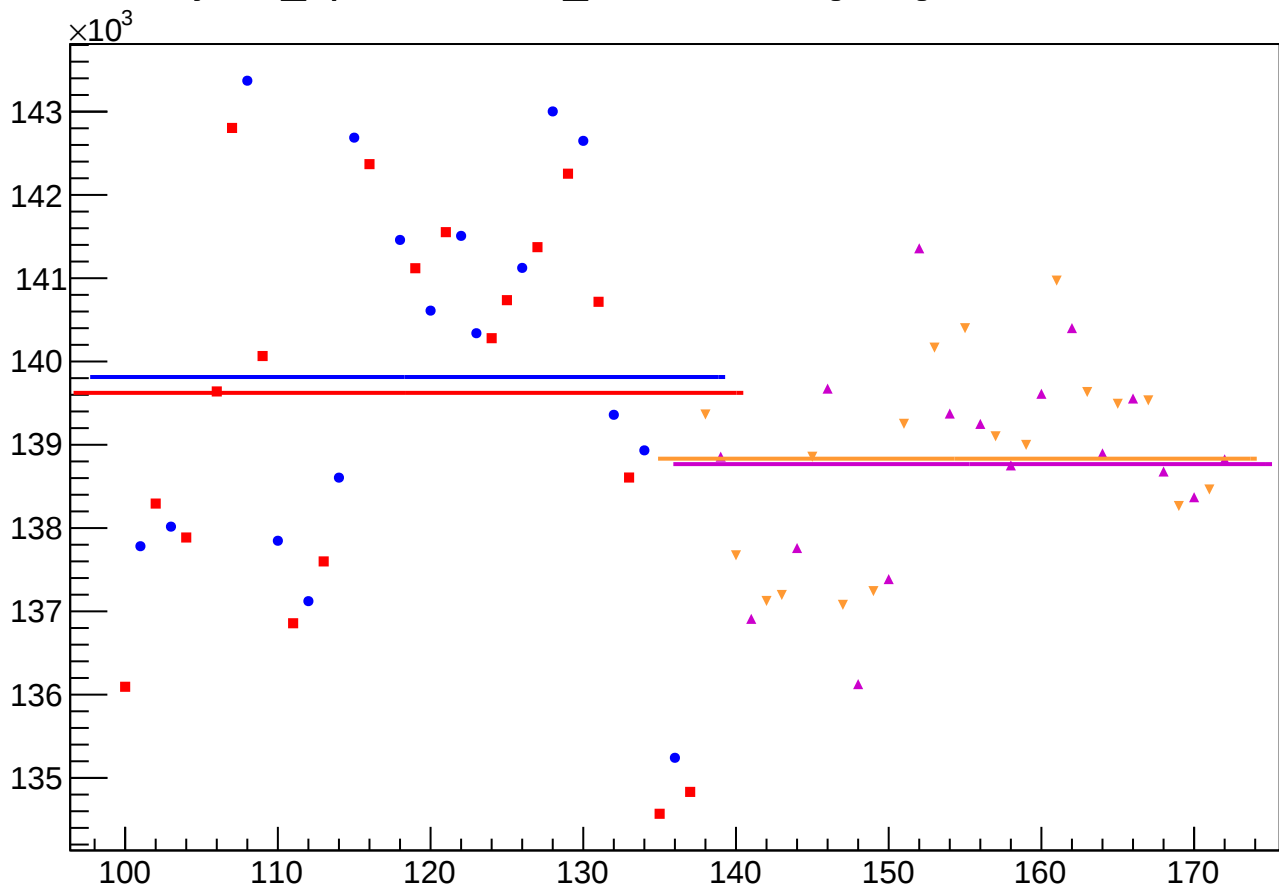
Right: 128.002+/-0.026 χ^2/NDF : 2821400.9/35

In: 163.283+/-0.027 χ^2/NDF : 3245987.9/33

Out: 157.297+/-0.026 χ^2/NDF : 3439004.6/36

All: 160.141+/-0.019 χ^2/NDF : 6710046.4/70

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2 /NDF: 1689865533.6/16

Left: 138801.139 $\pm$ 0.039

χ^2 /NDF: 976034585.1/34

Left Out: 138833.161 $\pm$ 0.055

χ^2 /NDF: 448725453.2/17

Right: 139713.961 $\pm$ 0.043

χ^2 /NDF: 3200544274.5/17

Right Out: 139623.387 $\pm$ 0.059

χ^2 /NDF: 1505731109.1/18

In: 139235.122 $\pm$ 0.041

χ^2 /NDF: 2374269761.6/33

Out: 139197.360 $\pm$ 0.040

χ^2 /NDF: 2051105890.6/33

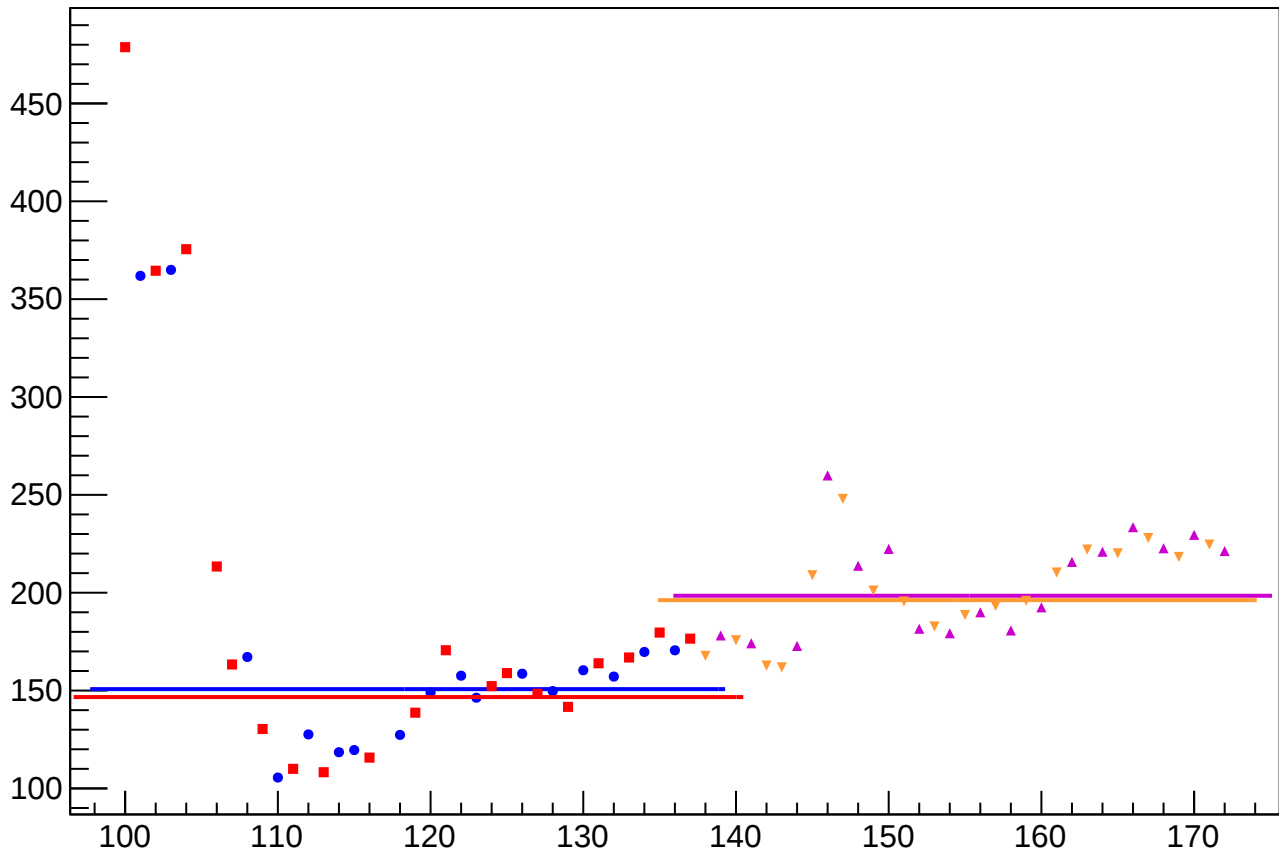
Left In: 138767.834 $\pm$ 0.056

χ^2 /NDF: 526606610.6/16

All: 139215.627 $\pm$ 0.029

χ^2 /NDF: 442580533.6/16

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733+/-0.044 χ^2/NDF : 1050071.6/16

Left Out: 196.201+/-0.039 χ^2/NDF : 351061.0/17

Right Out: 146.686+/-0.042 χ^2/NDF : 1203106.6/18

Left In: 198.449+/-0.039 χ^2/NDF : 362562.3/16

Left: 197.303+/-0.028 χ^2/NDF : 715285.9/34

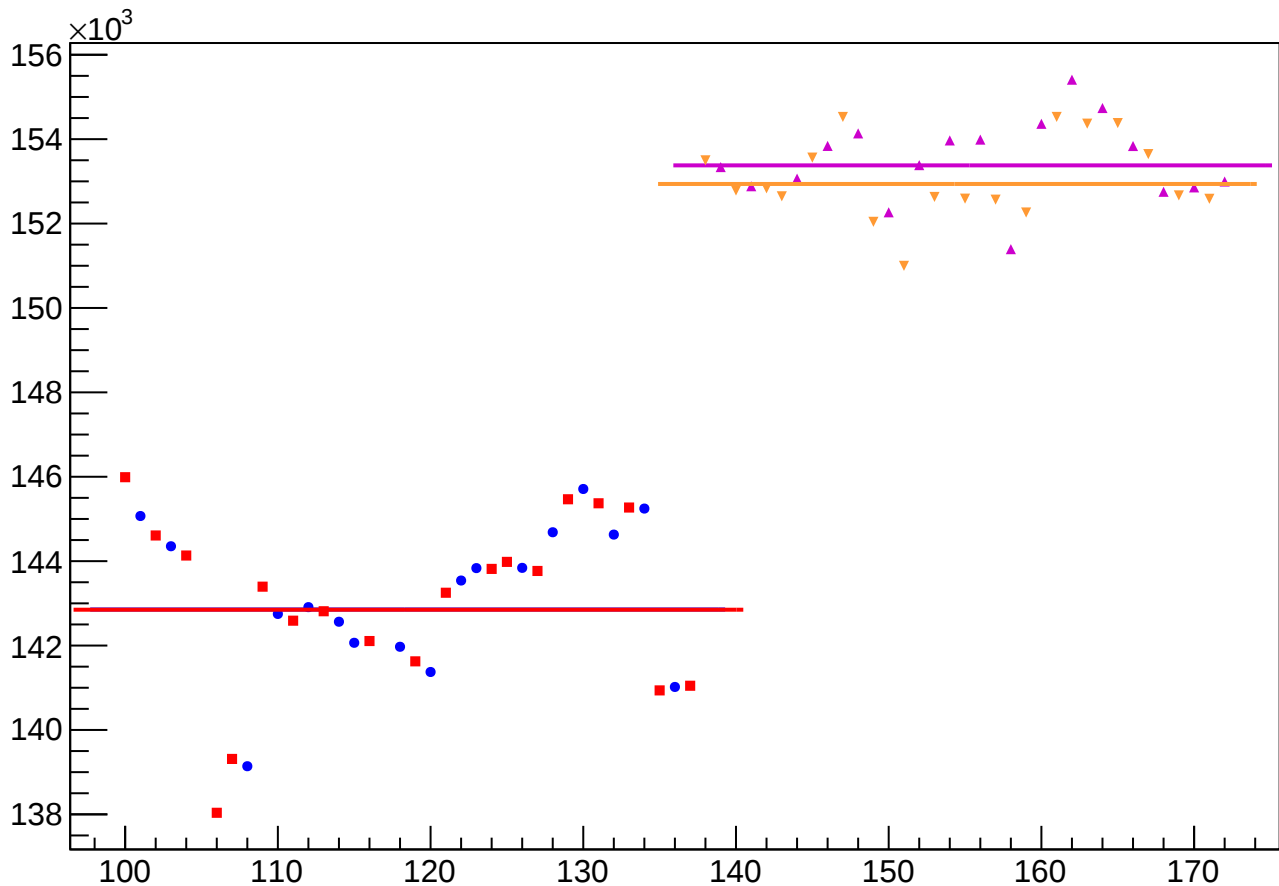
Right: 148.612+/-0.030 χ^2/NDF : 2257655.3/35

In: 177.129+/-0.029 χ^2/NDF : 2069582.2/33

Out: 173.381+/-0.028 χ^2/NDF : 2313117.7/36

All: 175.194+/-0.020 χ^2/NDF : 4391166.3/70

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065

χ^2 /NDF: 740367386.5/16

Left: 153154.054 $\pm$ 0.039

χ^2 /NDF: 566284433.0/34

Left Out: 152938.206 $\pm$ 0.055

χ^2 /NDF: 262601968.6/17

Right: 142851.648 $\pm$ 0.044

χ^2 /NDF: 1590437268.8/34

Right Out: 142849.362 $\pm$ 0.060

χ^2 /NDF: 850066807.5/18

In: 148841.157 $\pm$ 0.042

χ^2 /NDF: 16082541708.9/34

Out: 148351.102 $\pm$ 0.041

χ^2 /NDF: 16329533127.3/34

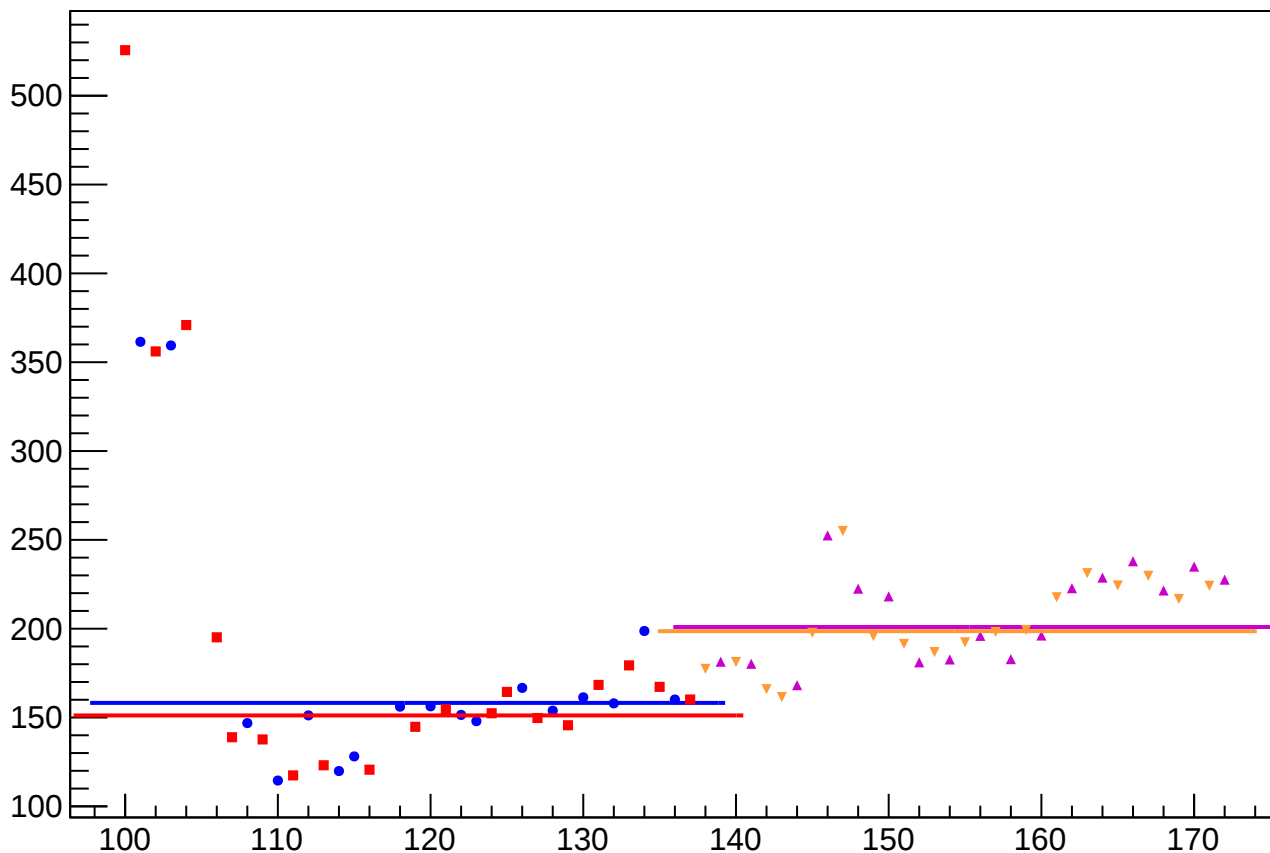
Left In: 153378.982 $\pm$ 0.056

χ^2 /NDF: 272399302.5/16

All: 148585.915 $\pm$ 0.029

χ^2 /NDF: 324814583.0/34

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 198.591+/-0.039 χ^2/NDF : 336605.7/17

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 200.950+/-0.040 χ^2/NDF : 370120.9/16

Left: 199.746+/-0.028 χ^2/NDF : 708518.1/34

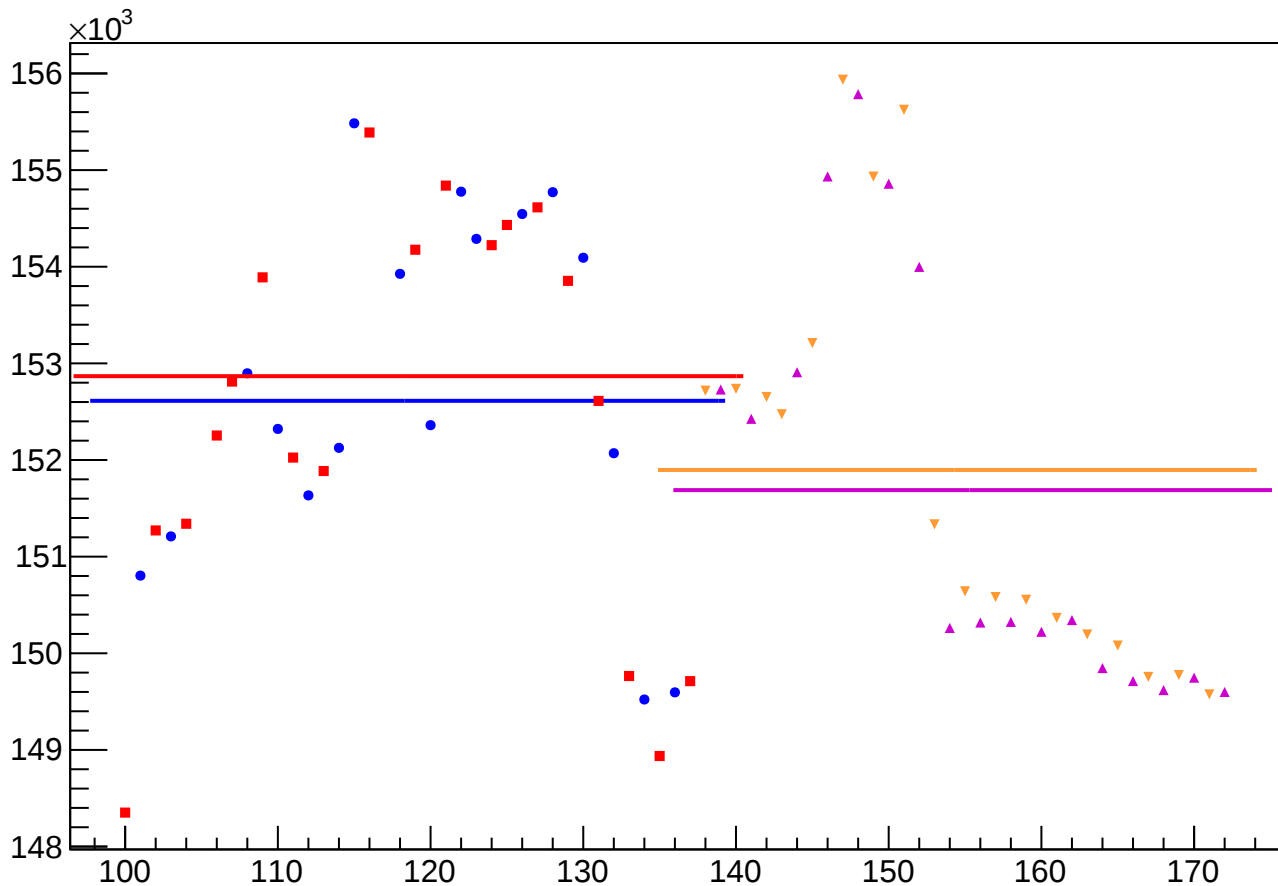
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 182.532+/-0.030 χ^2/NDF : 1750140.2/33

Out: 177.032+/-0.029 χ^2/NDF : 2012178.7/36

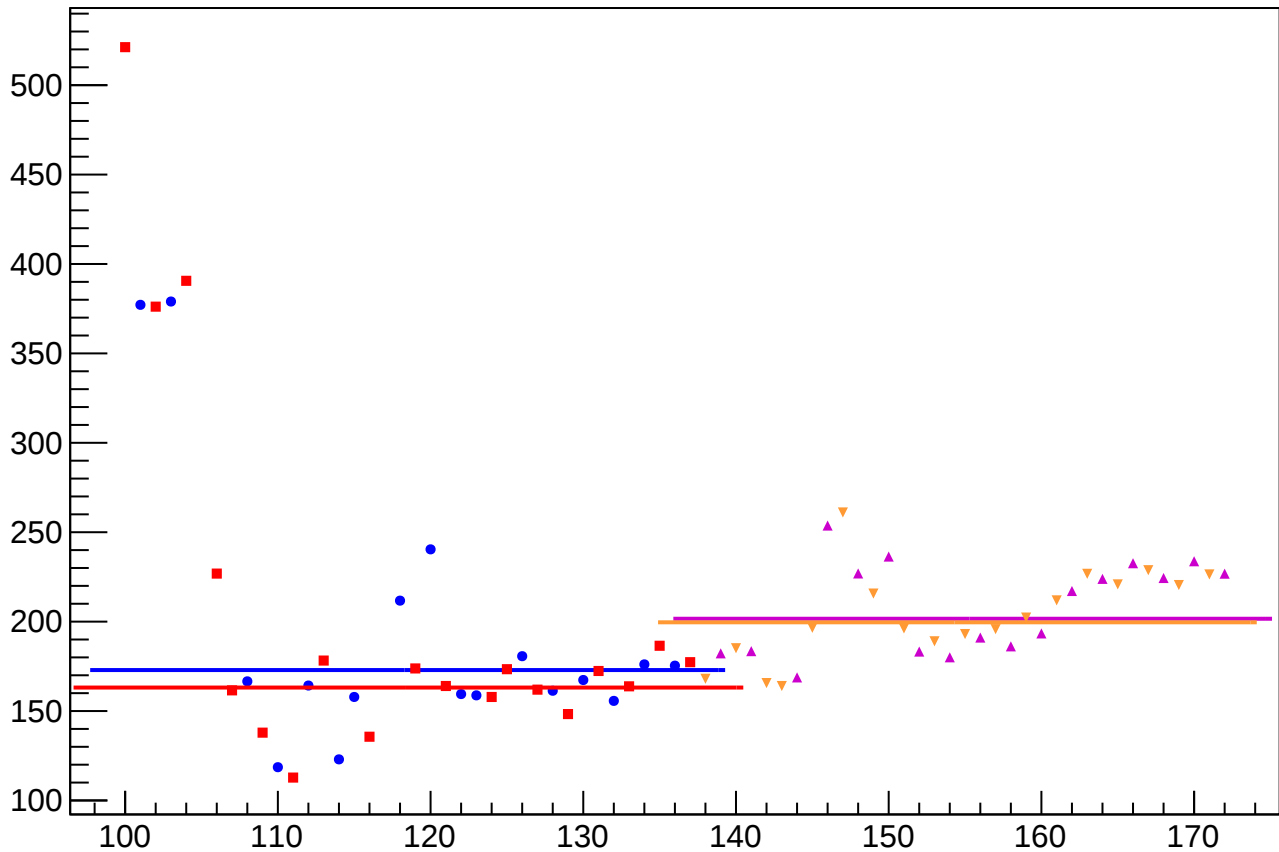
All: 179.667+/-0.021 χ^2/NDF : 3779797.5/70

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2 /NDF: 621416187.4/16	Left: 151794.877 $\pm$ 0.039	χ^2 /NDF: 2393542645.0/3
Left Out: 151897.063 $\pm$ 0.055	χ^2 /NDF: 1168688848.6/17	Right: 152750.957 $\pm$ 0.049	χ^2 /NDF: 1347263895.4/17
Right Out: 152867.453 $\pm$ 0.066	χ^2 /NDF: 719075986.4/18	In: 152038.572 $\pm$ 0.044	χ^2 /NDF: 1941137500.9/3
Left In: 151688.498 $\pm$ 0.056	χ^2 /NDF: 1217868306.7/16	Out: 152295.232 $\pm$ 0.042	χ^2 /NDF: 2014407436.6/3
		All: 152172.816 $\pm$ 0.031	χ^2 /NDF: 397300898

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 199.620+/-0.039 χ^2/NDF : 357774.2/17

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 201.612+/-0.040 χ^2/NDF : 379856.3/16

Left: 200.596+/-0.028 χ^2/NDF : 738904.4/34

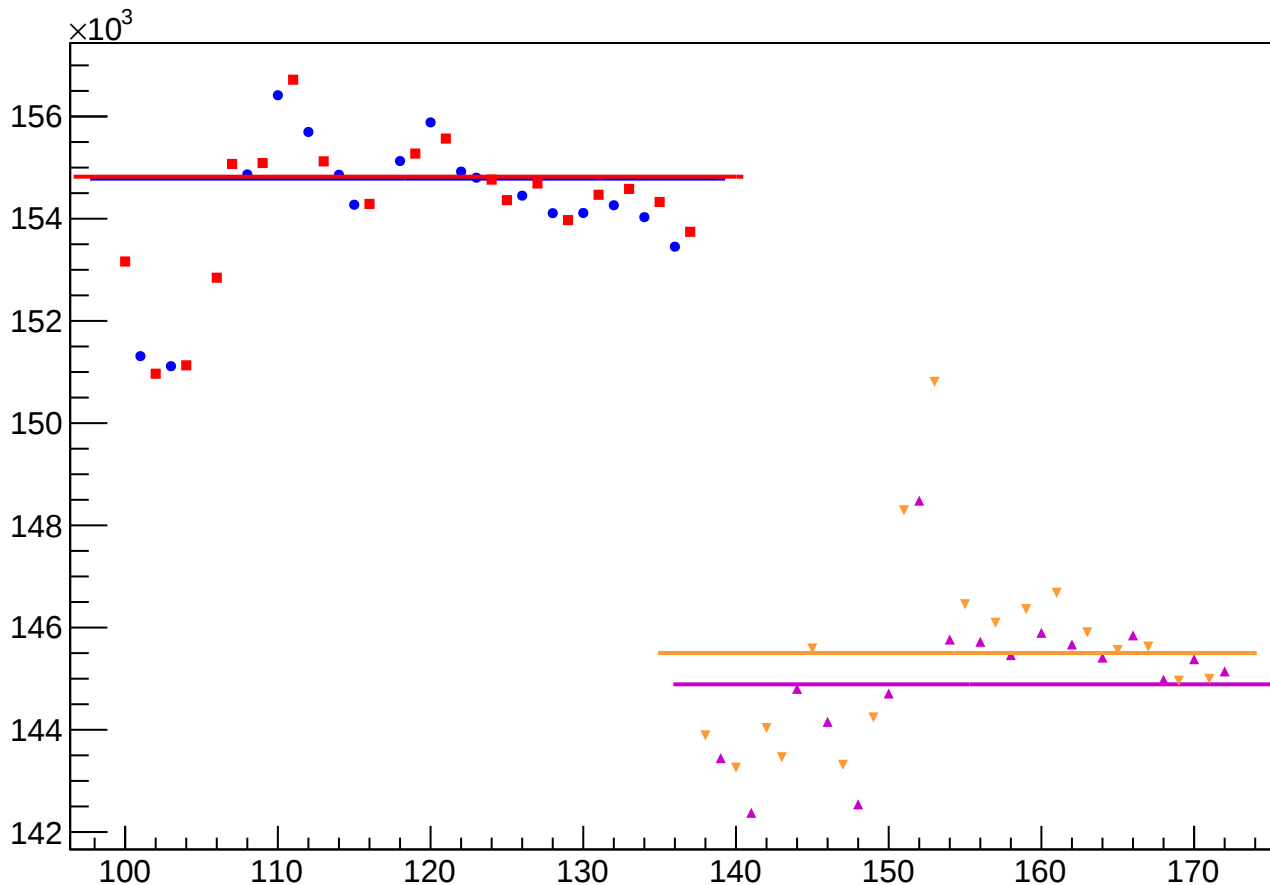
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 190.743+/-0.031 χ^2/NDF : 1518176.6/33

Out: 184.651+/-0.030 χ^2/NDF : 1749517.8/36

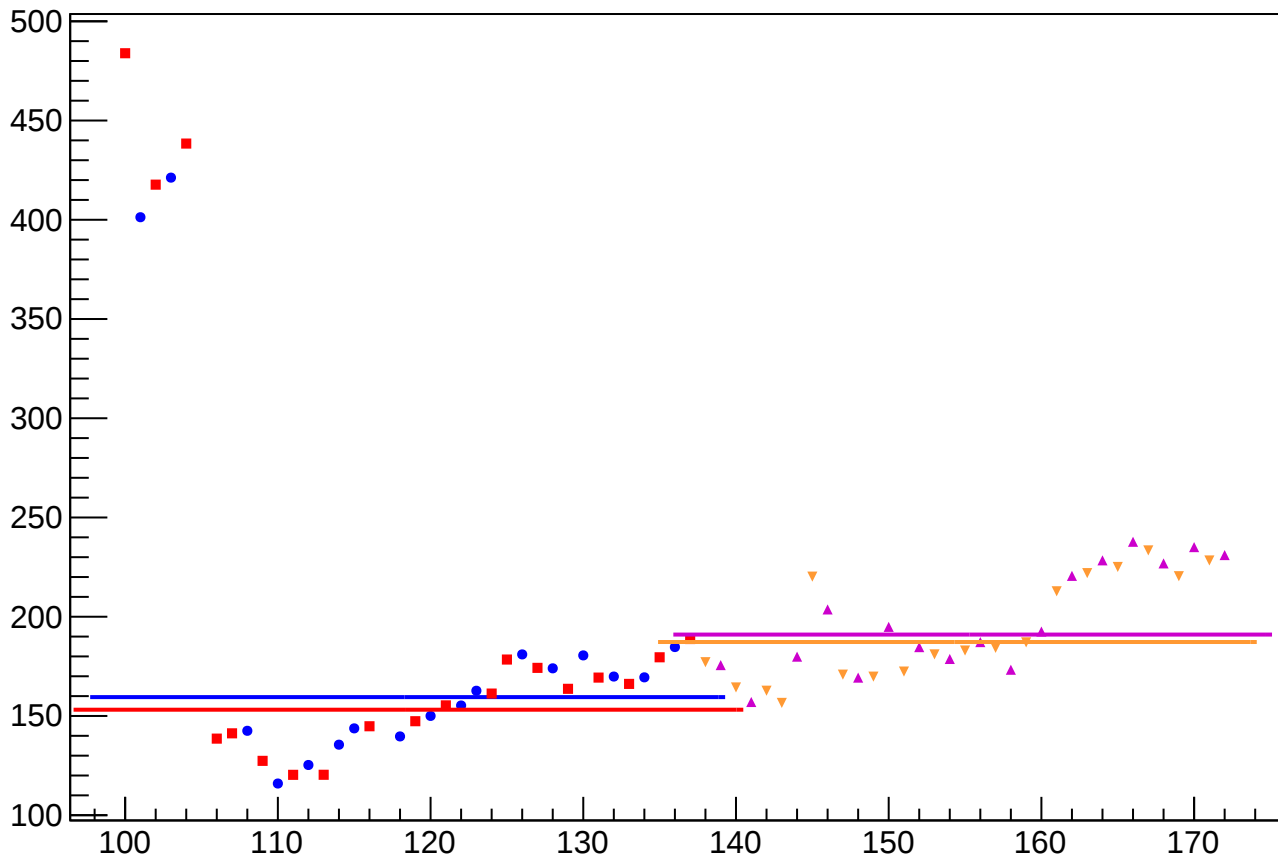
All: 187.556+/-0.022 χ^2/NDF : 3287371.1/70

yield_bpm1i02WS_mean vs Slug, Sign Corrected

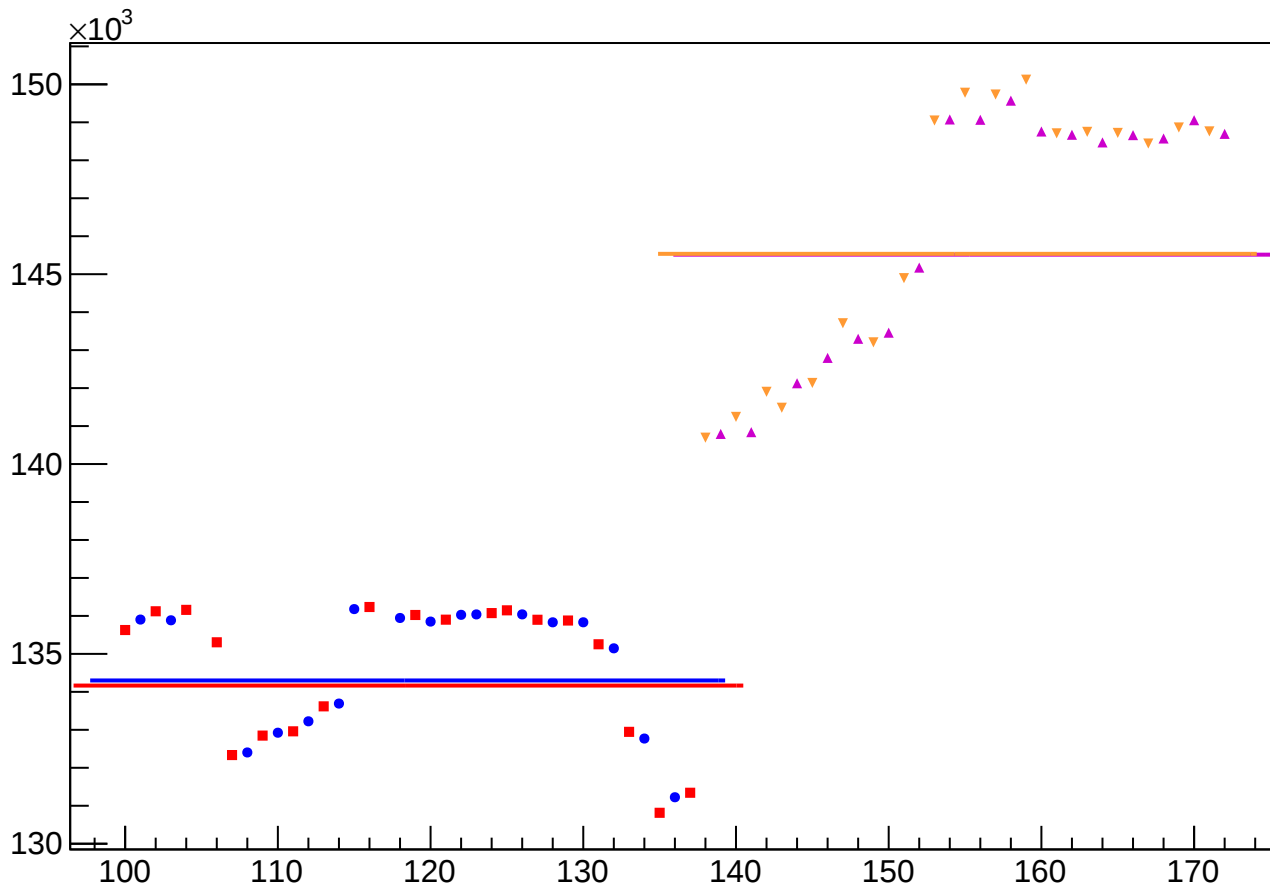


Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145204.877 $\pm$ 0.037	χ^2 /NDF: 2386317959.3/3
Left Out: 145502.661 $\pm$ 0.052	χ^2 /NDF: 1491167775.8/17	Right: 154804.381 $\pm$ 0.045	χ^2 /NDF: 559614489.4/3
Right Out: 154822.113 $\pm$ 0.061	χ^2 /NDF: 293850525.9/18	In: 148840.024 $\pm$ 0.041	χ^2 /NDF: 14856239363.7/3
Left In: 144889.574 $\pm$ 0.053	χ^2 /NDF: 827081604.9/16	Out: 149414.723 $\pm$ 0.039	χ^2 /NDF: 15378090012.5
		All: 149140.568 $\pm$ 0.029	χ^2 /NDF: 303355713

yield_bpm1i02WS_rms vs Slug, Sign Corrected

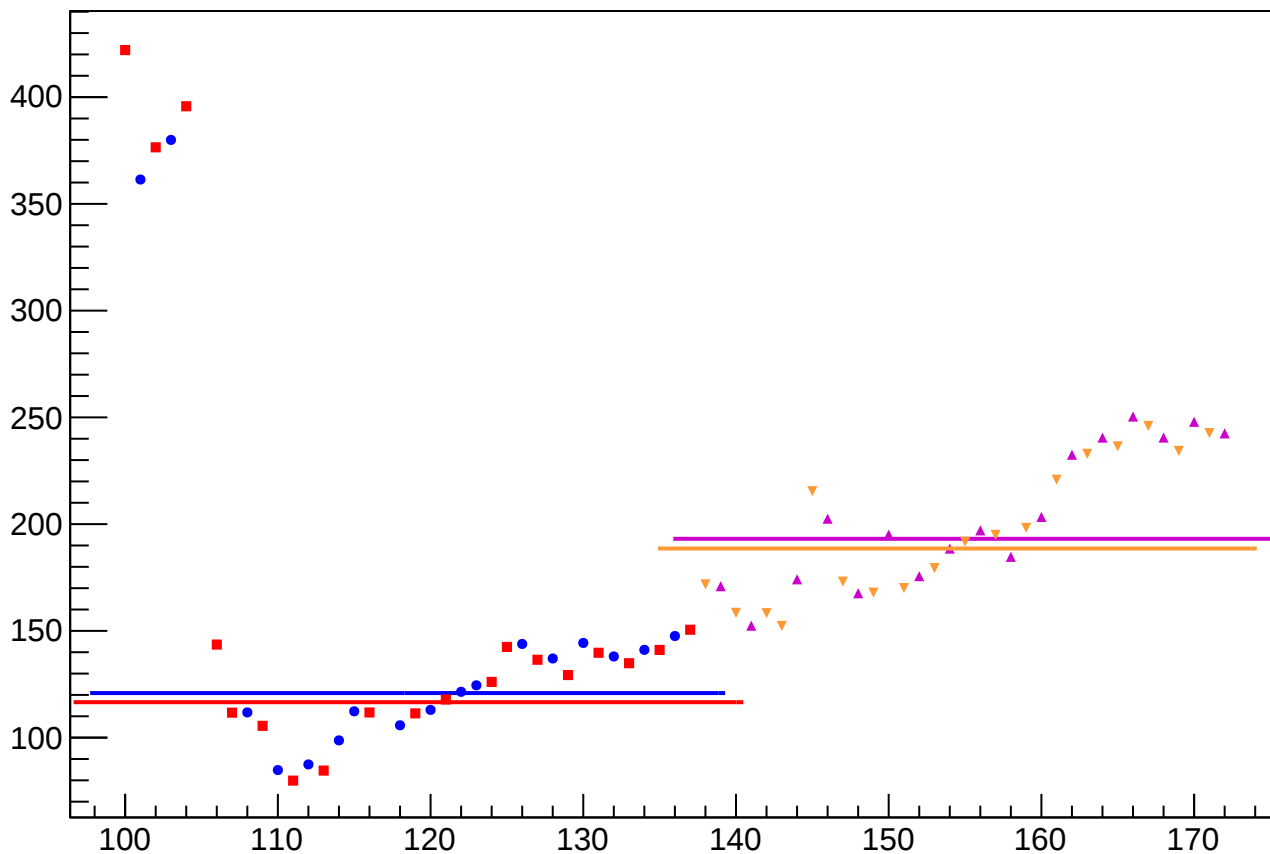


yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050	χ^2 /NDF: 1149581803.2/16	Left: 145525.444 $\pm$ 0.038	χ^2 /NDF: 8414799163.3/3
Left Out: 145535.916 $\pm$ 0.052	χ^2 /NDF: 4542155616.2/17	Right: 134228.768 $\pm$ 0.035	χ^2 /NDF: 2364832007.2/3
Right Out: 134165.615 $\pm$ 0.047	χ^2 /NDF: 1211471052.4/18	In: 139503.267 $\pm$ 0.037	χ^2 /NDF: 28046073055.6/3
Left In: 145514.264 $\pm$ 0.054	χ^2 /NDF: 3872560869.4/16	Out: 139285.069 $\pm$ 0.035	χ^2 /NDF: 31669267692.0/3
		All: 139388.967 $\pm$ 0.025	χ^2 /NDF: 597336999.0/3

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 188.581 $\pm$ 0.037 χ^2 /NDF: 620918.1/17

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 193.123 $\pm$ 0.038 χ^2 /NDF: 574147.3/16

Left: 190.778 $\pm$ 0.027 χ^2 /NDF: 1202340.4/34

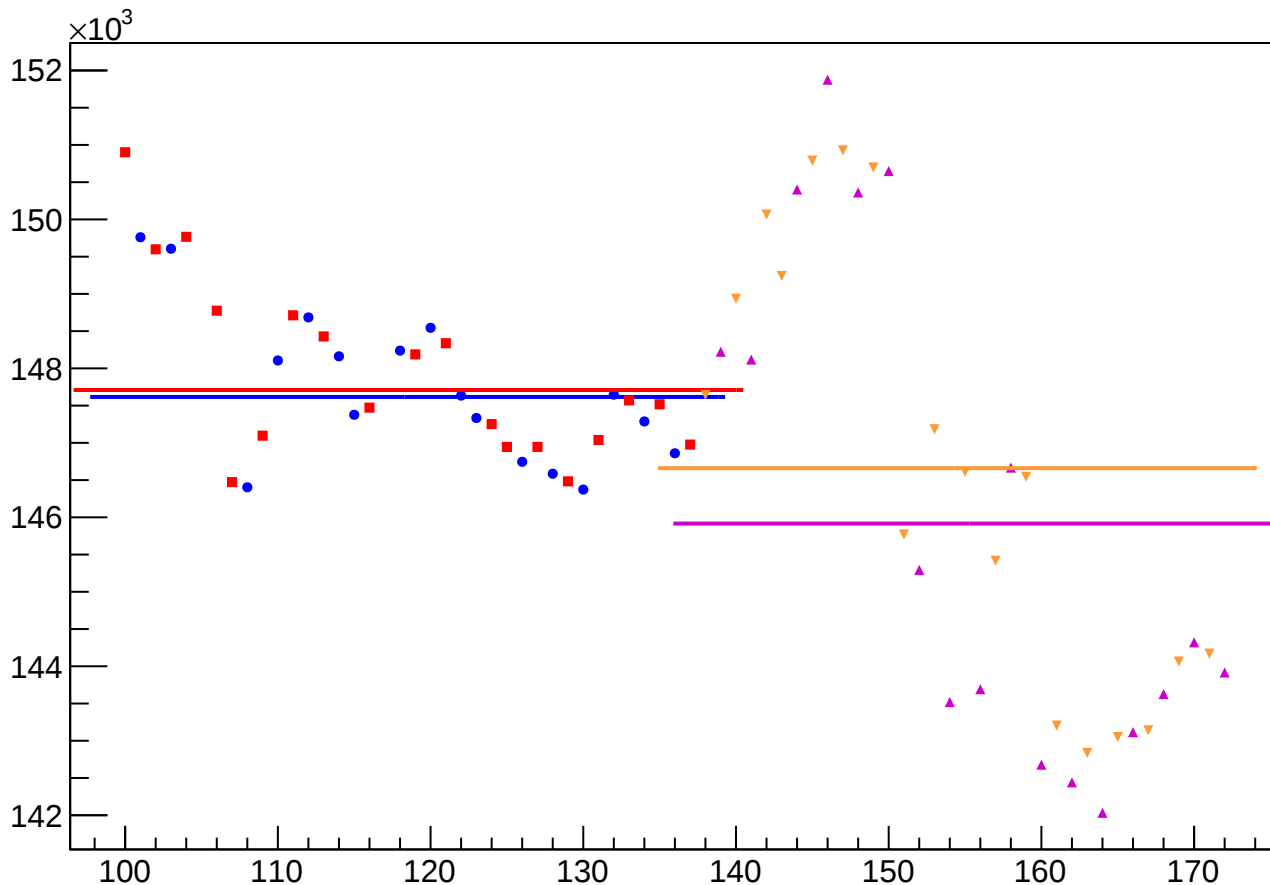
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 154.396 $\pm$ 0.026 χ^2 /NDF: 3949273.8/33

Out: 149.007 $\pm$ 0.025 χ^2 /NDF: 4239813.9/36

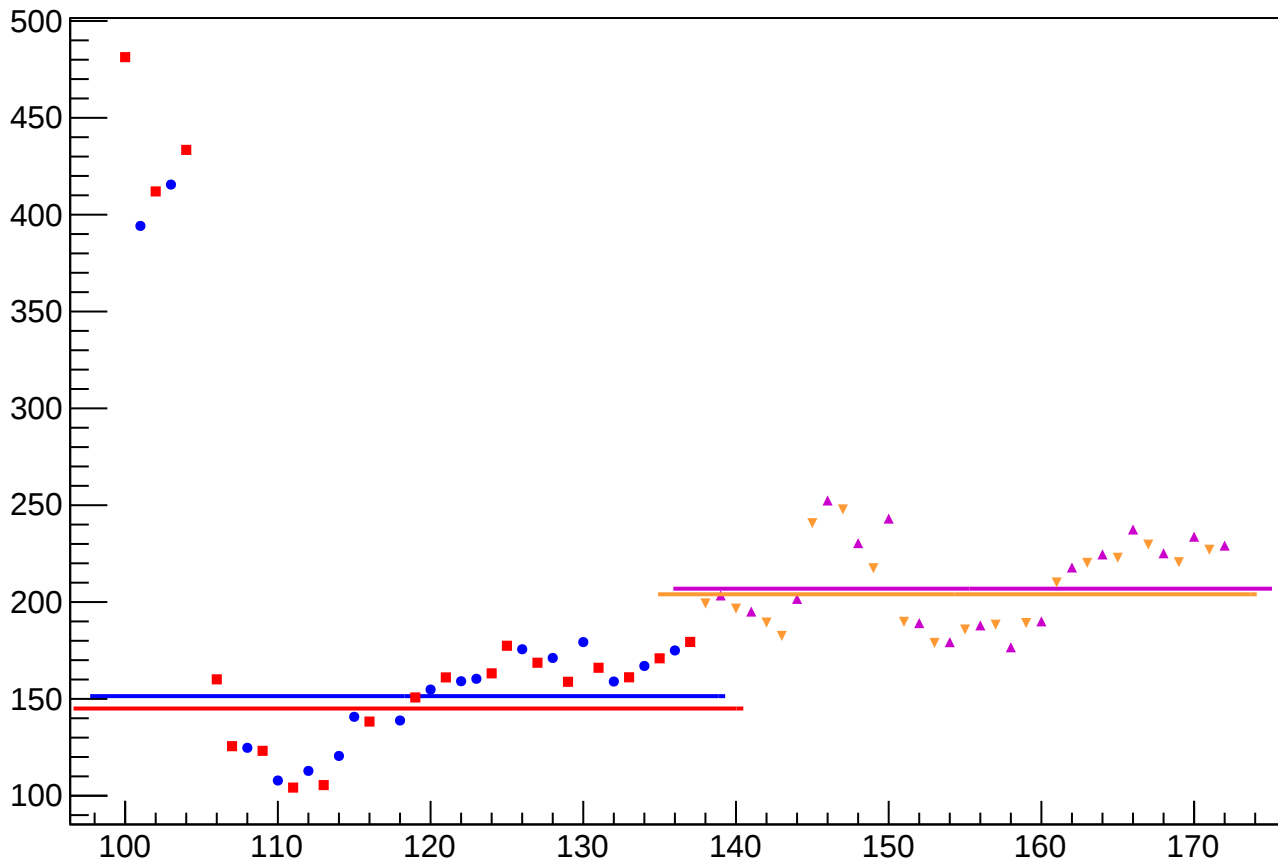
All: 151.573 $\pm$ 0.018 χ^2 /NDF: 8211486.1/70

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062	χ^2/NDF : 199263428.7/16	Left: 146297.191 $\pm$ 0.040	χ^2/NDF : 5036273334.6/3
Left Out: 146660.247 $\pm$ 0.056	χ^2/NDF : 2147738764.9/17	Right: 147666.153 $\pm$ 0.043	χ^2/NDF : 404368550.3/3
Right Out: 147709.723 $\pm$ 0.058	χ^2/NDF : 203906685.9/18	In: 146698.285 $\pm$ 0.042	χ^2/NDF : 3402238126.4/3
Left In: 145916.269 $\pm$ 0.058	χ^2/NDF : 2803336779.5/16	Out: 147166.495 $\pm$ 0.041	χ^2/NDF : 2519228598.1/3
		All: 146942.951 $\pm$ 0.029	χ^2/NDF : 598524698

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424 $\pm$ 0.044 χ^2 /NDF: 1257843.0/16

Left Out: 204.012 $\pm$ 0.040 χ^2 /NDF: 253468.2/17

Right Out: 145.039 $\pm$ 0.041 χ^2 /NDF: 1375972.0/18

Left In: 206.896 $\pm$ 0.041 χ^2 /NDF: 317467.3/16

Left: 205.419 $\pm$ 0.028 χ^2 /NDF: 573496.3/34

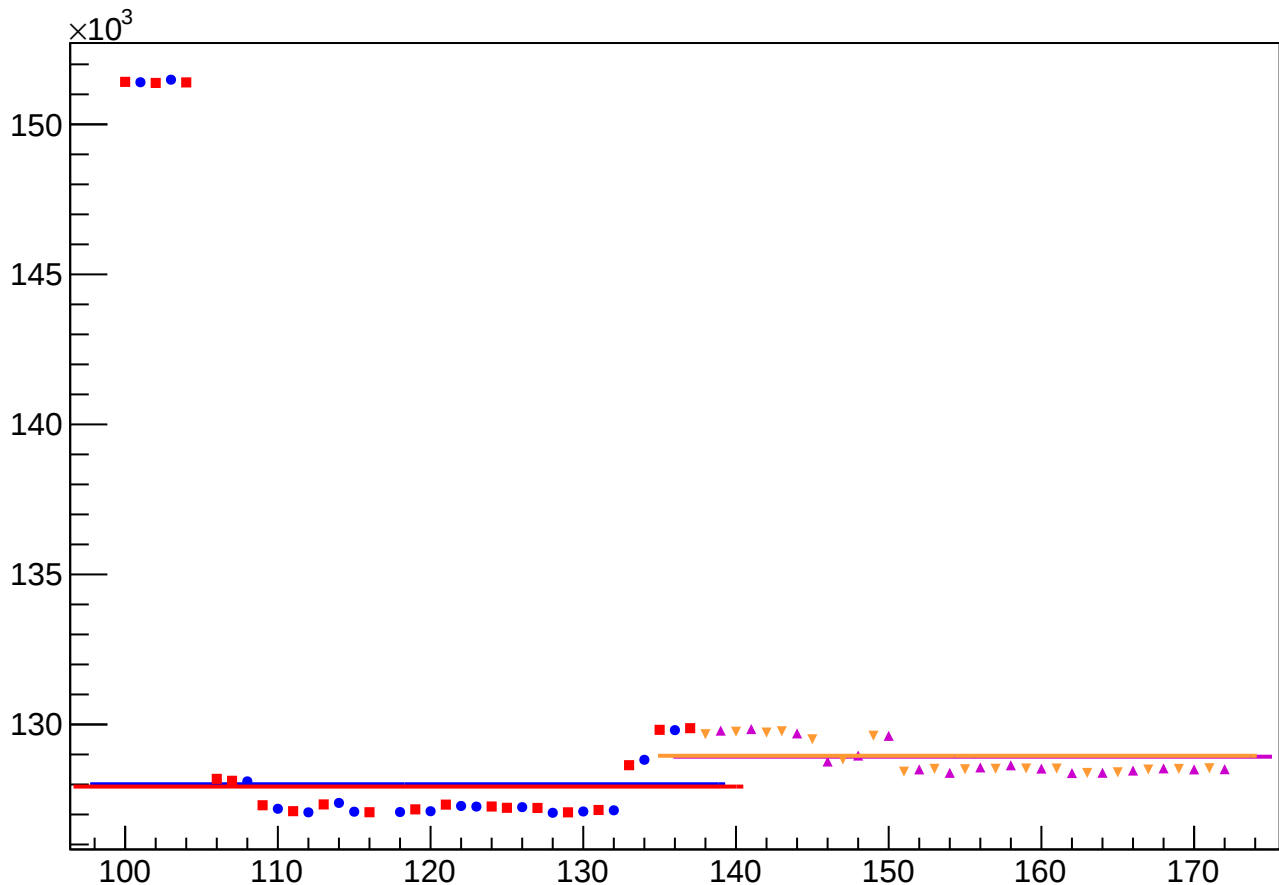
Right: 148.012 $\pm$ 0.030 χ^2 /NDF: 2644973.7/35

In: 181.377 $\pm$ 0.030 χ^2 /NDF: 2426468.3/33

Out: 175.565 $\pm$ 0.029 χ^2 /NDF: 2687759.2/36

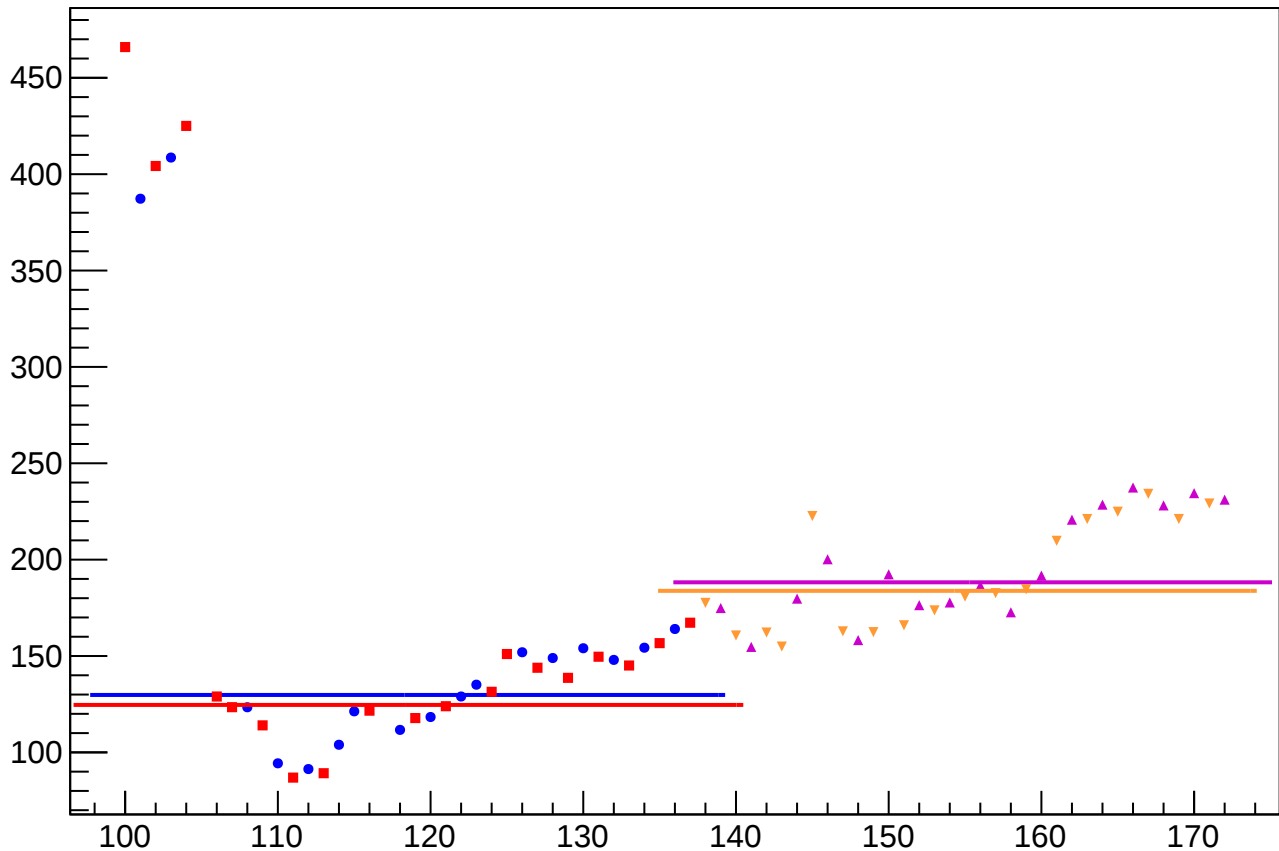
All: 178.340 $\pm$ 0.021 χ^2 /NDF: 5133882.8/70

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128956.906 $\pm$ 0.051 χ^2 /NDF: 124146181.1/17
 Right Out: 127930.136 $\pm$ 0.050 χ^2 /NDF: 3768176193.0/18
 Left In: 128925.936 $\pm$ 0.053 χ^2 /NDF: 111741489.9/16
 Left: 128941.938 $\pm$ 0.037 χ^2 /NDF: 236066842.2/34
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/34
 In: 128479.820 $\pm$ 0.038 χ^2 /NDF: 4579676548.0/33
 Out: 128438.609 $\pm$ 0.036 χ^2 /NDF: 4098008013.6/33
 All: 128458.137 $\pm$ 0.026 χ^2 /NDF: 867831263.0/66

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 183.817 $\pm$ 0.036 χ^2 /NDF: 502204.7/17

Right Out: 124.625 $\pm$ 0.036 χ^2 /NDF: 1531827.4/18

Left In: 188.235 $\pm$ 0.037 χ^2 /NDF: 458429.7/16

Left: 185.952 $\pm$ 0.026 χ^2 /NDF: 967926.7/34

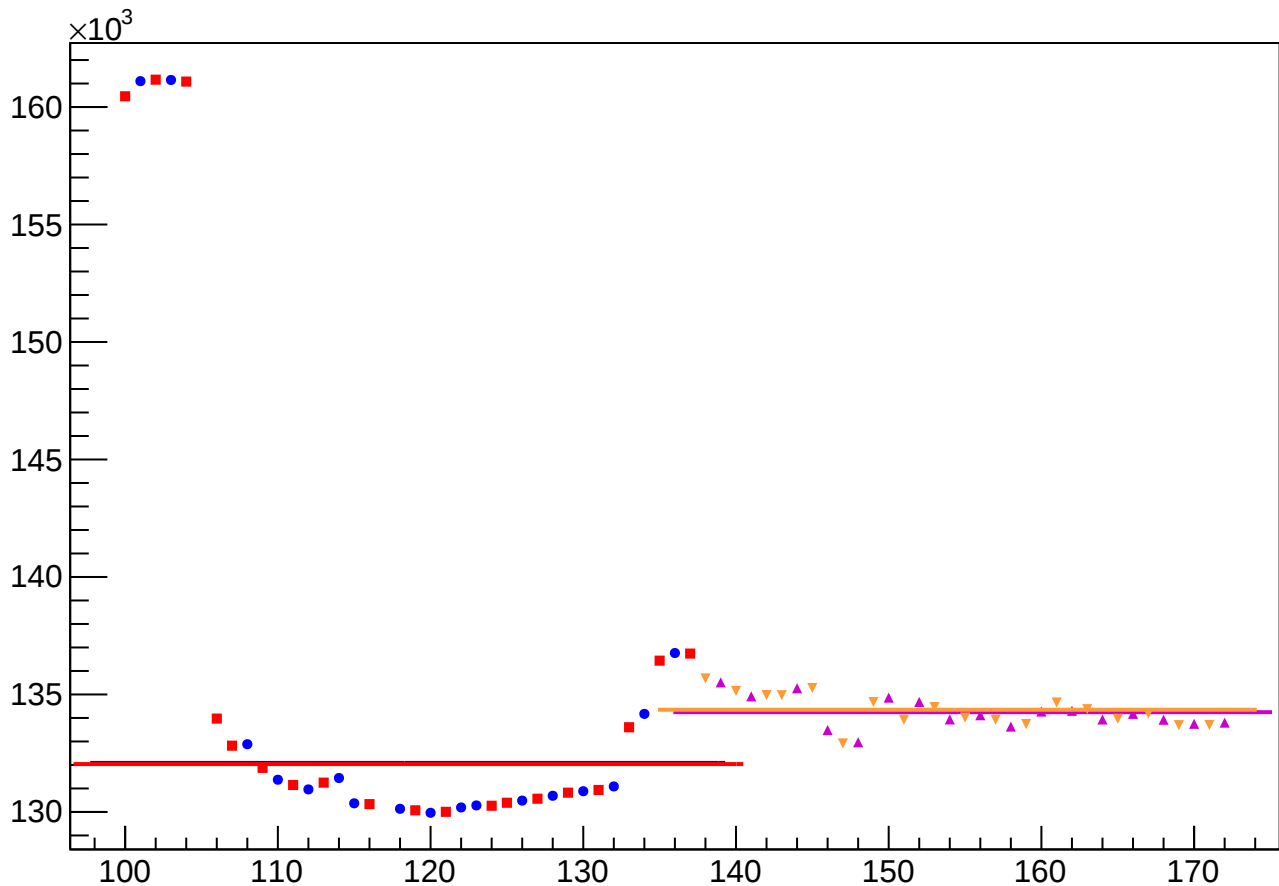
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 159.853 $\pm$ 0.027 χ^2 /NDF: 3142968.4/33

Out: 153.938 $\pm$ 0.025 χ^2 /NDF: 3401188.3/36

All: 156.741 $\pm$ 0.018 χ^2 /NDF: 6570042.0/70

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057

χ^2/NDF : 6733230928.7/16

Left: 134299.707 $\pm$ 0.038

χ^2/NDF : 344356195.0/34

Left Out: 134350.215 $\pm$ 0.053

χ^2/NDF : 176990397.7/17

Right: 132060.364 $\pm$ 0.038

χ^2/NDF : 12615754245.0/34

Right Out: 132037.539 $\pm$ 0.053

χ^2/NDF : 5882115872.9/18

In: 133208.966 $\pm$ 0.039

χ^2/NDF : 7657016189.5/34

Out: 133191.185 $\pm$ 0.037

χ^2/NDF : 7026001823.0/34

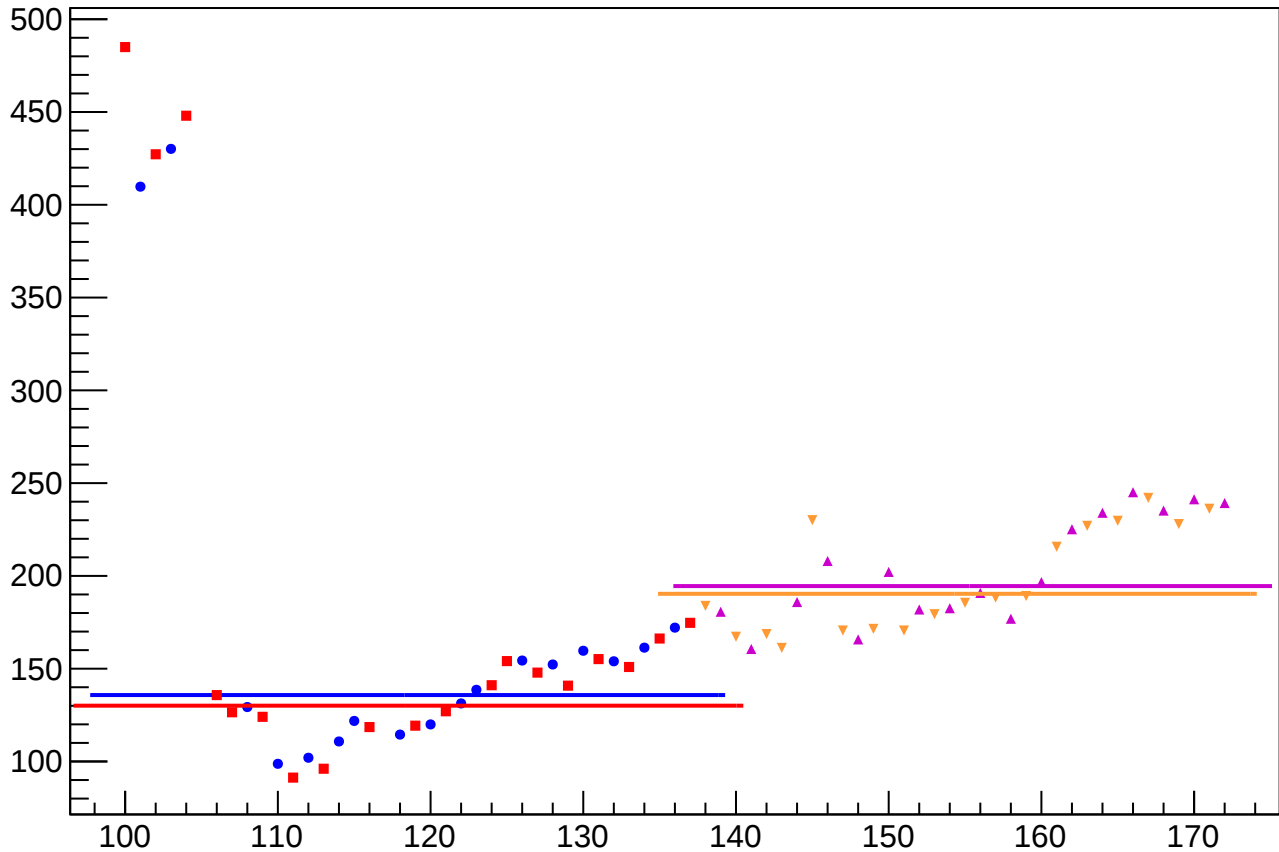
Left In: 134245.915 $\pm$ 0.054

χ^2/NDF : 165465525.7/16

All: 133199.614 $\pm$ 0.027

χ^2/NDF : 146831263.0/34

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2 /NDF: 1441904.9/16

Left Out: 190.350 $\pm$ 0.037 χ^2 /NDF: 469991.0/17

Right Out: 130.070 $\pm$ 0.037 χ^2 /NDF: 1503997.6/18

Left In: 194.518 $\pm$ 0.038 χ^2 /NDF: 441660.6/16

Left: 192.368 $\pm$ 0.027 χ^2 /NDF: 917721.2/34

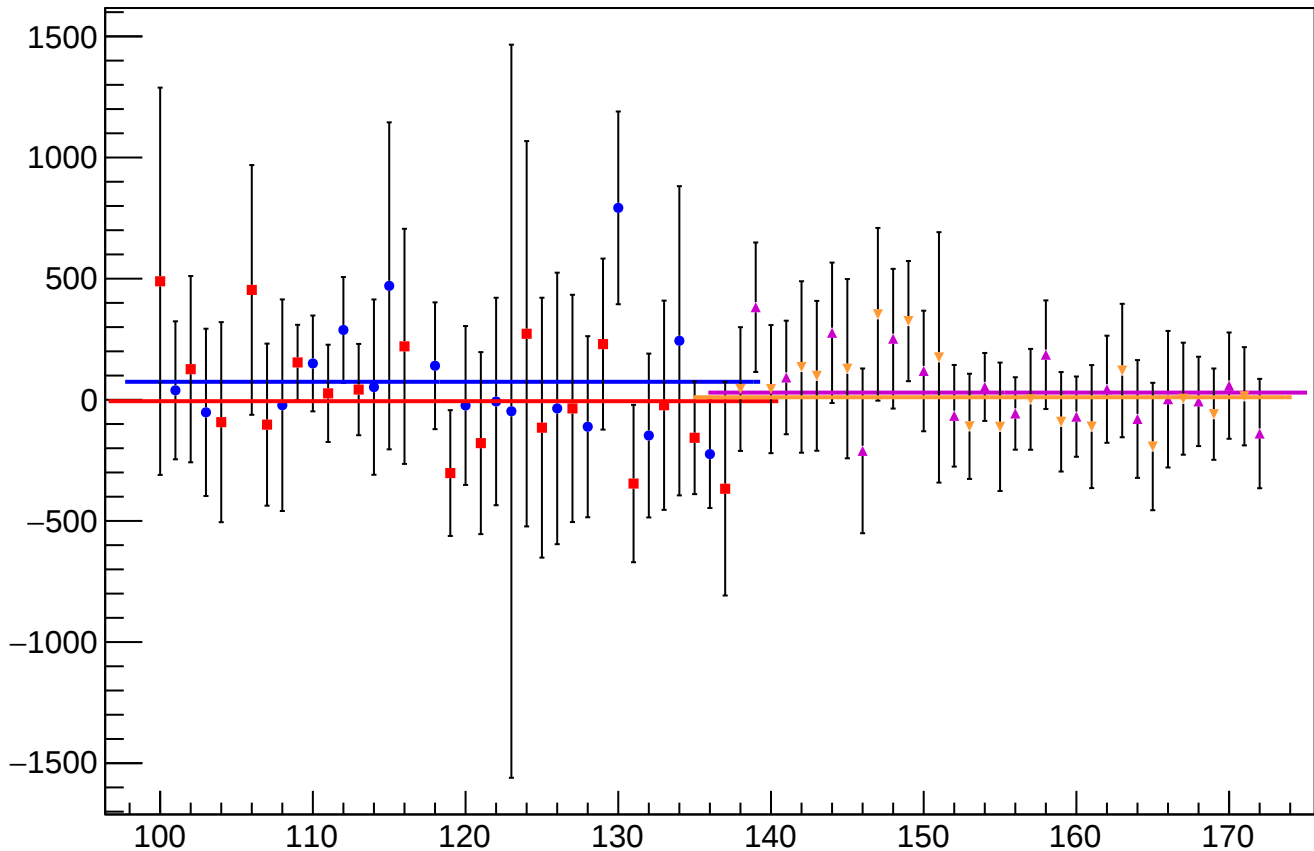
Right: 132.723 $\pm$ 0.027 χ^2 /NDF: 2956918.0/35

In: 166.316 $\pm$ 0.028 χ^2 /NDF: 3005397.8/33

Out: 160.140 $\pm$ 0.026 χ^2 /NDF: 3287799.1/36

All: 163.067 $\pm$ 0.019 χ^2 /NDF: 6319350.0/70

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: 10.417+/-59.778 χ^2/NDF : 4.9/17

Right Out: -5.739+/-70.069 χ^2/NDF : 7.1/18

Left In: 29.723+/-51.614 χ^2/NDF : 6.0/16

Left: 21.477+/-39.067 χ^2/NDF : 10.9/34

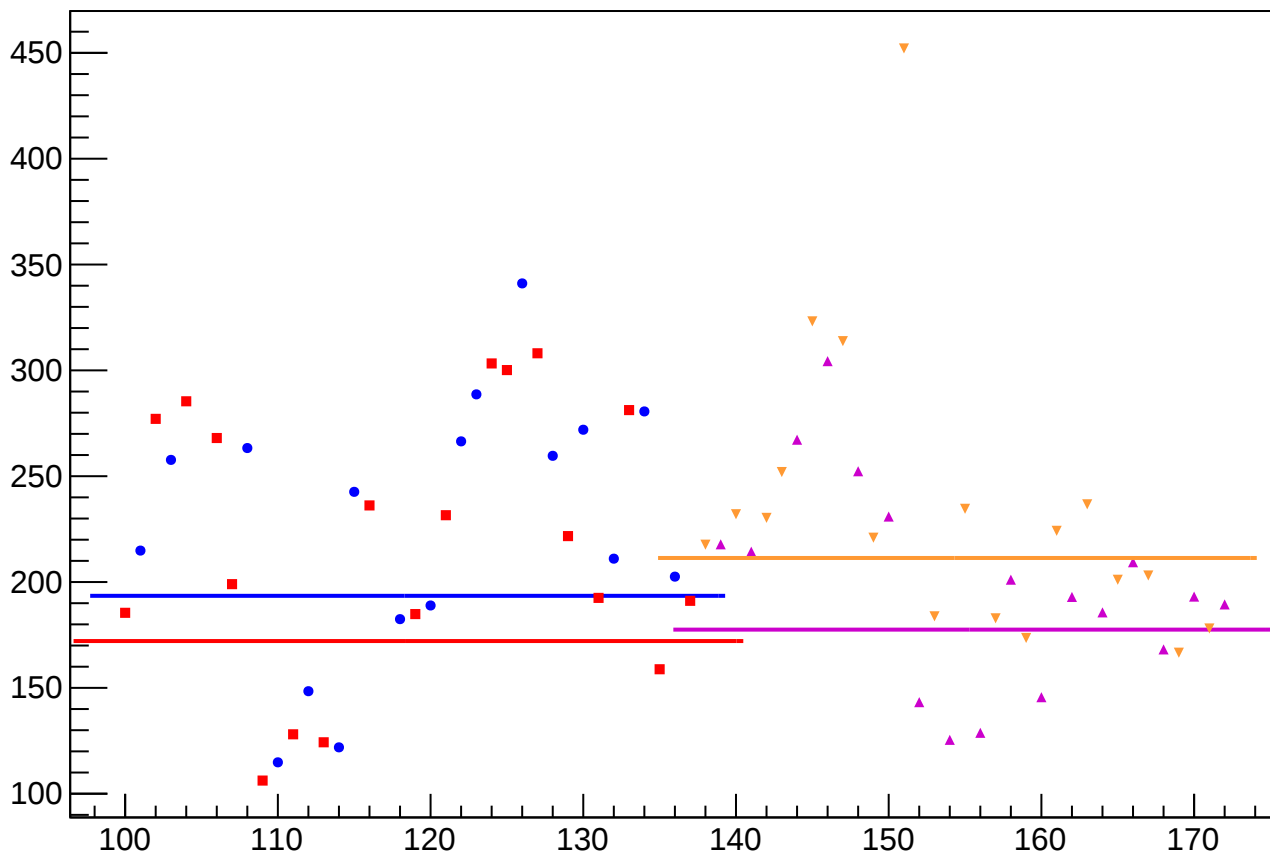
Right: 29.490+/-52.426 χ^2/NDF : 15.4/35

In: 43.052+/-43.212 χ^2/NDF : 13.9/33

Out: 3.611+/-45.477 χ^2/NDF : 12.0/36

All: 24.338+/-31.326 χ^2/NDF : 26.3/70

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488+/-0.056 χ^2/NDF : 1017195.7/16

Left Out: 211.369+/-0.042 χ^2/NDF :1185558.8/17

Right Out: 172.122+/-0.050 χ^2/NDF : 1579840.2/18

Left In: 177.519+/-0.036 χ^2/NDF :1488163.7/16

Left: 191.976+/-0.028 χ^2/NDF : 3041124.5/34

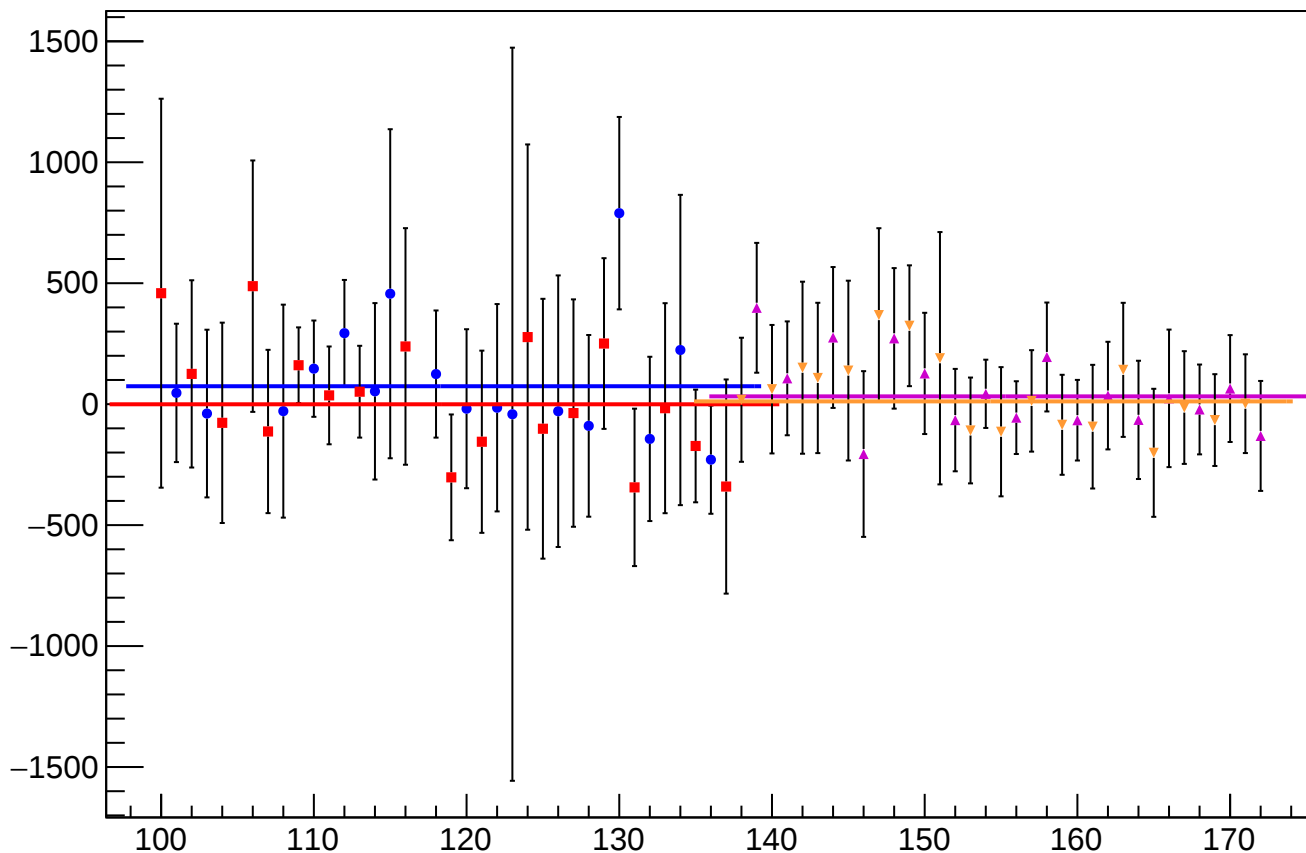
Right: 181.527+/-0.037 χ^2/NDF : 2678891.2/35

In: 182.294+/-0.031 χ^2/NDF :2562616.1/33

Out: 194.836+/-0.032 χ^2/NDF :3128537.8/36

All: 188.245+/-0.022 χ^2/NDF : 5771094.5/70

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 11.500 $\pm$ 60.170 χ^2 /NDF:5.0/17

Right Out: -0.503 $\pm$ 70.437 χ^2 /NDF: 7.3/18

Left In: 32.223 $\pm$ 51.939 χ^2 /NDF:6.2/16

Left: 23.375 $\pm$ 39.317 χ^2 /NDF: 11.3/34

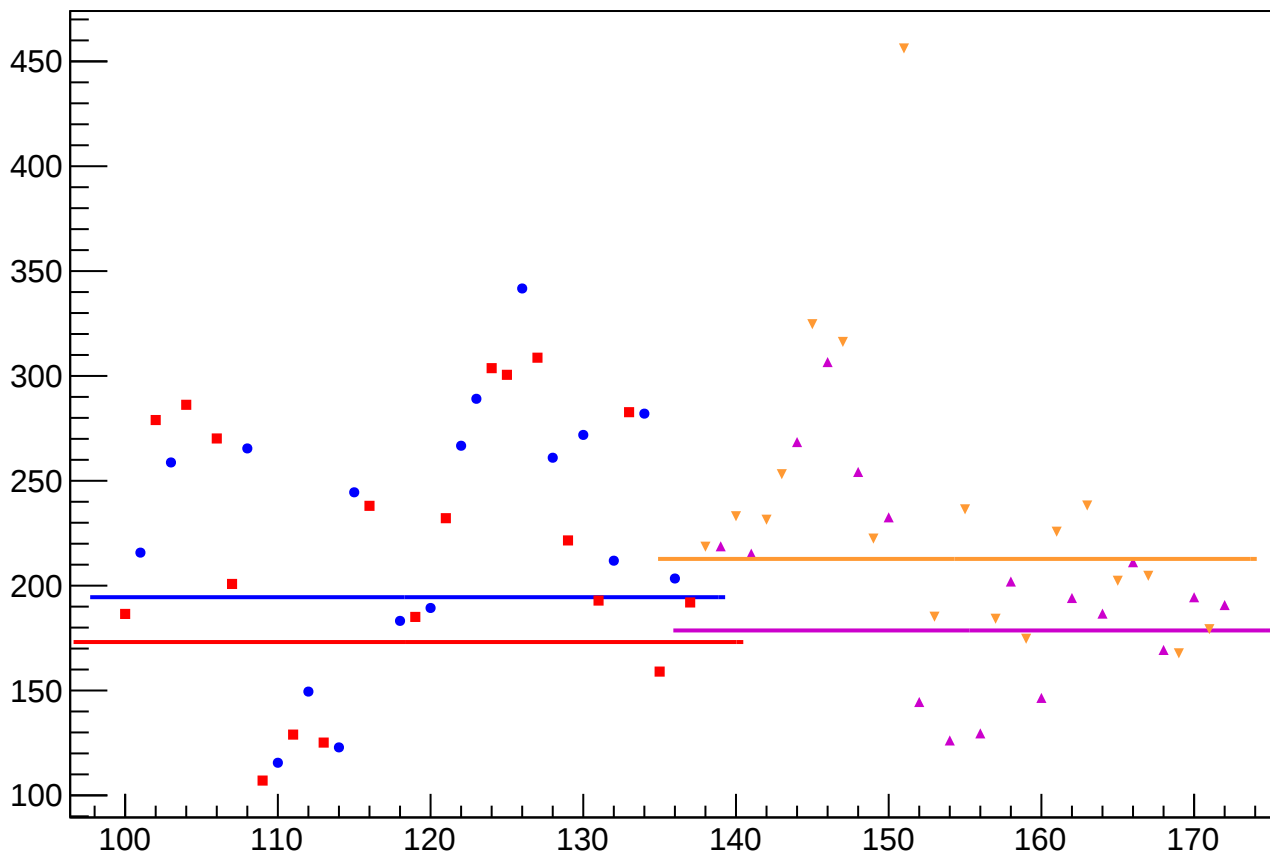
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 44.771 $\pm$ 43.466 χ^2 /NDF:13.9/33

Out: 6.436 $\pm$ 45.750 χ^2 /NDF:12.4/36

All: 26.584 $\pm$ 31.512 χ^2 /NDF: 26.7/70

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 $\pm$ 0.056 χ^2/NDF : 1008514.7/16

Left Out: 212.750 $\pm$ 0.043 χ^2/NDF :1184471.3/17

Right Out: 173.111 $\pm$ 0.050 χ^2/NDF : 1567374.3/18

Left In: 178.634 $\pm$ 0.037 χ^2/NDF :1487038.7/16

Left: 193.201 $\pm$ 0.028 χ^2/NDF : 3039941.7/34

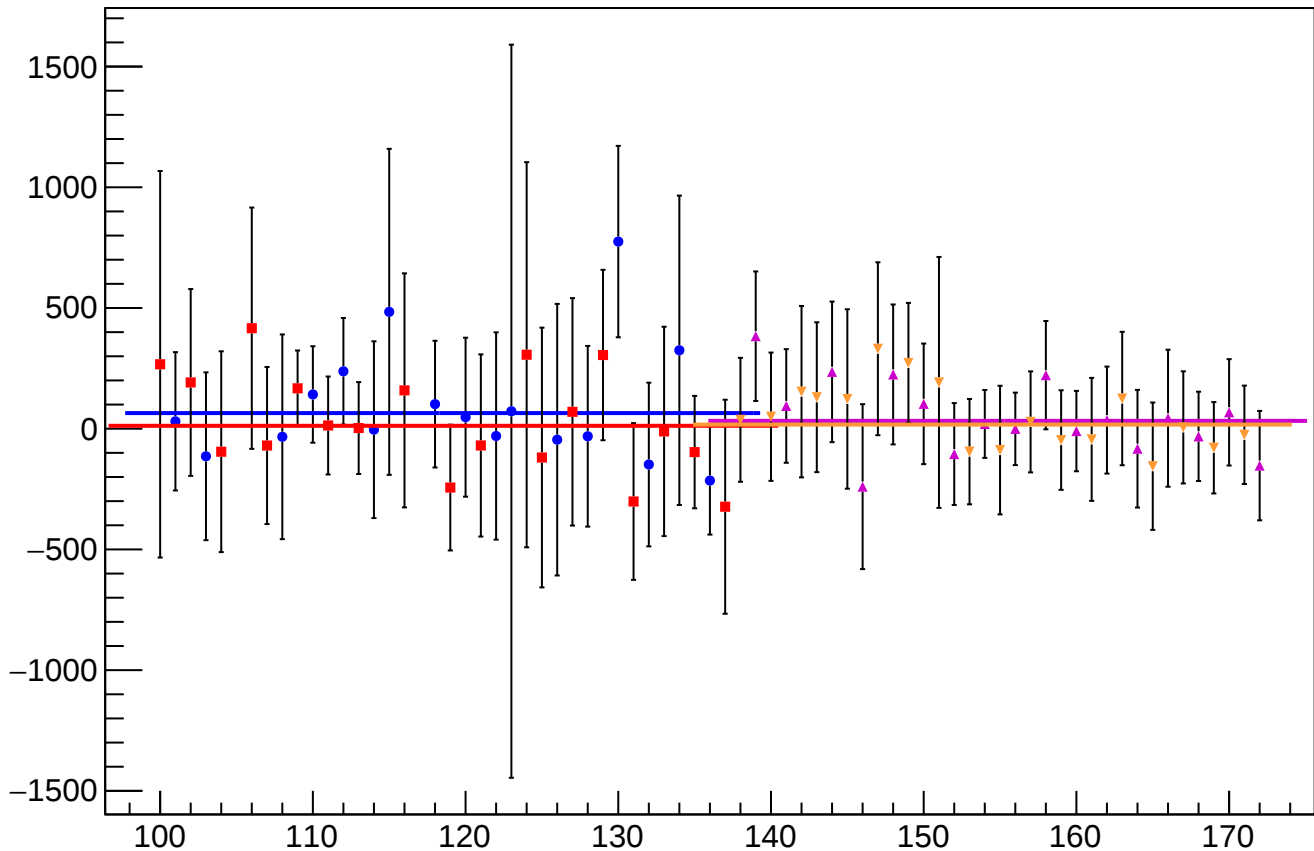
Right: 182.529 $\pm$ 0.037 χ^2/NDF : 2657073.5/35

In: 183.387 $\pm$ 0.031 χ^2/NDF :2551450.0/33

Out: 196.027 $\pm$ 0.032 χ^2/NDF :3118025.9/36

All: 189.384 $\pm$ 0.022 χ^2/NDF : 5749716.2/70

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733 $\pm$ 79.399 χ^2 /NDF: 7.0/16

Left Out: 17.093 $\pm$ 60.034 χ^2 /NDF:3.8/17

Right Out: 12.094 $\pm$ 70.361 χ^2 /NDF: 5.8/18

Left In: 32.520 $\pm$ 51.804 χ^2 /NDF:5.7/16

Left: 25.935 $\pm$ 39.220 χ^2 /NDF: 9.5/34

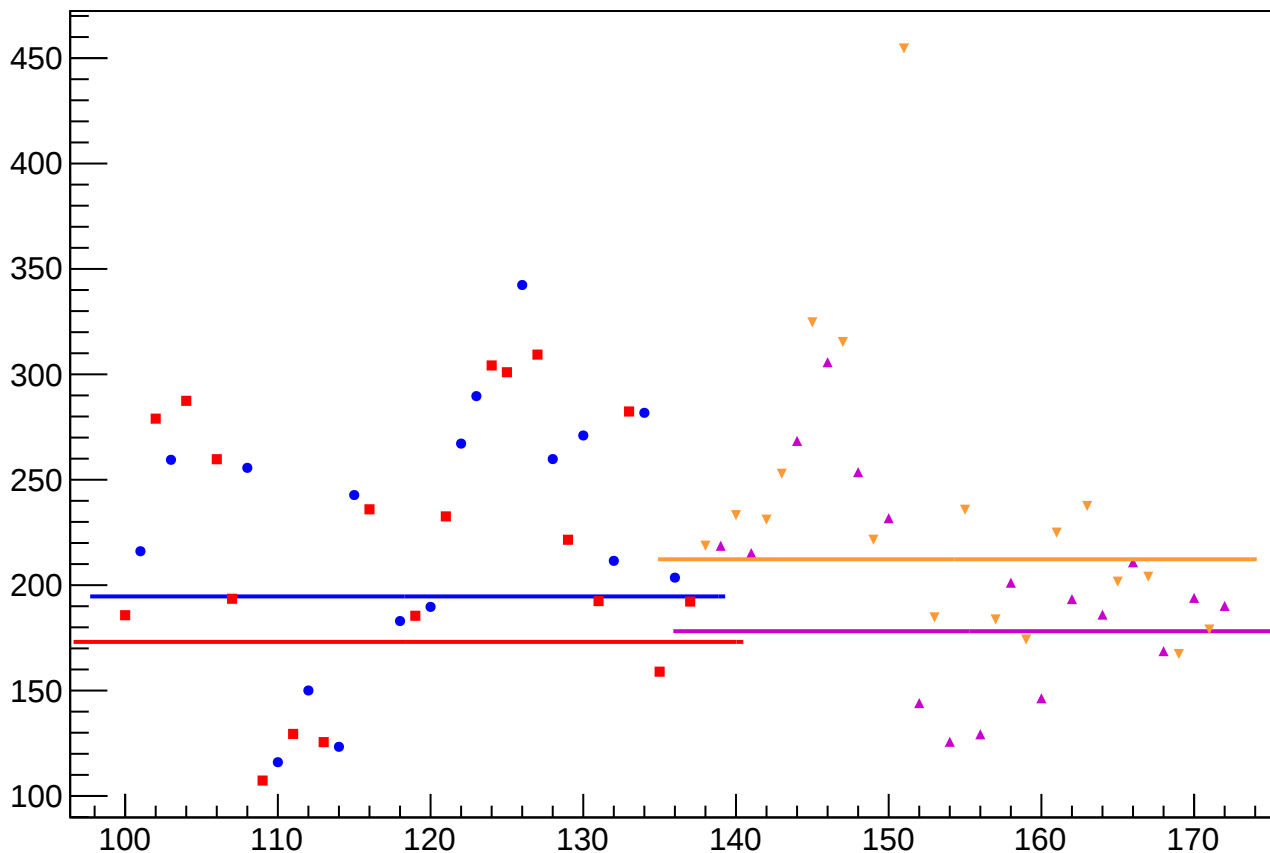
Right: 35.248 $\pm$ 52.659 χ^2 /NDF: 13.1/35

In: 42.138 $\pm$ 43.386 χ^2 /NDF:12.9/33

Out: 14.987 $\pm$ 45.669 χ^2 /NDF:9.6/36

All: 29.258 $\pm$ 31.455 χ^2 /NDF: 22.6/70

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 212.263 $\pm$ 0.042 χ^2 /NDF:1186086.7/17

Right Out: 173.089 $\pm$ 0.050 χ^2 /NDF: 1544540.9/18

Left In: 178.158 $\pm$ 0.037 χ^2 /NDF:1490655.4/16

Left: 192.714 $\pm$ 0.028 χ^2 /NDF: 3046734.5/34

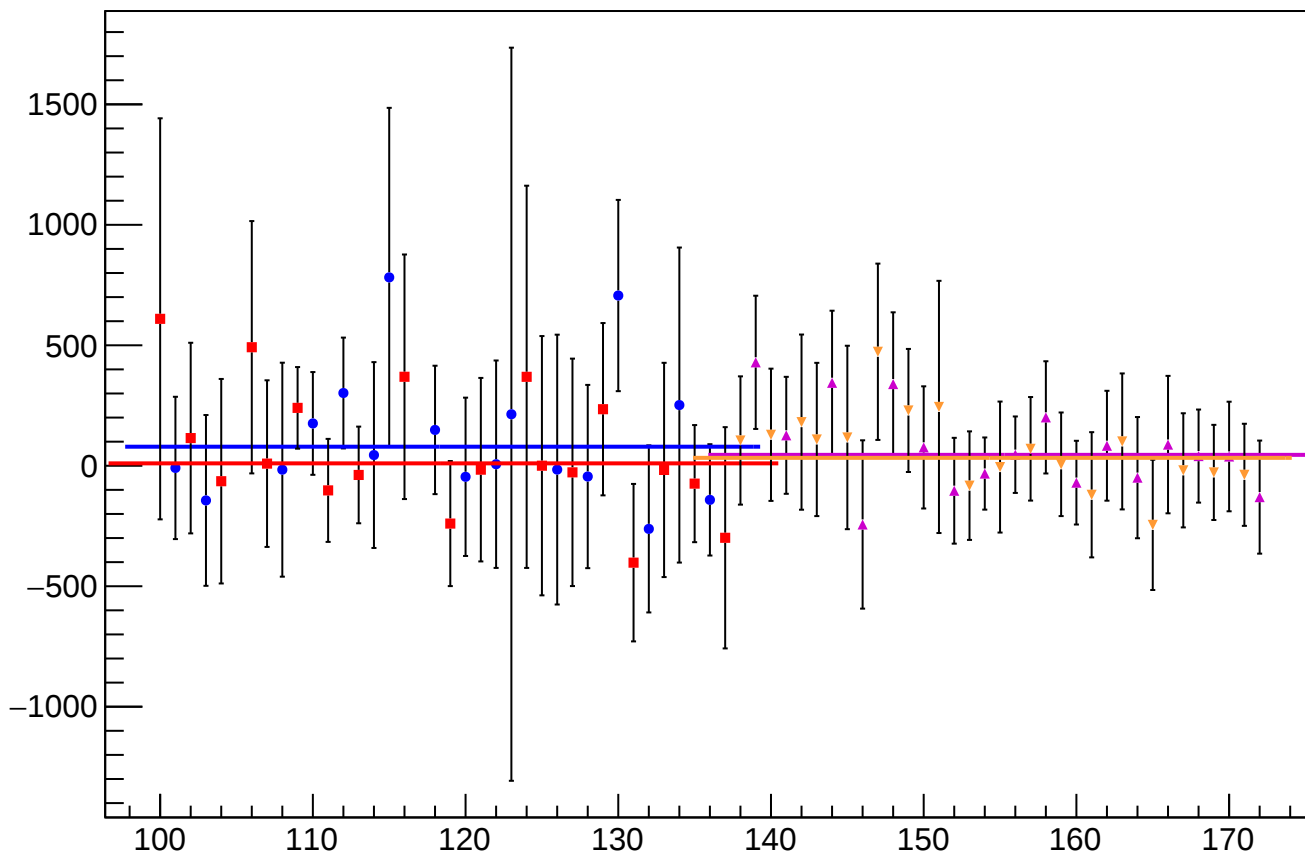
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 183.083 $\pm$ 0.031 χ^2 /NDF:2537993.4/33

Out: 195.759 $\pm$ 0.032 χ^2 /NDF:3089411.1/36

All: 189.096 $\pm$ 0.022 χ^2 /NDF: 5708401.5/70

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2 /NDF: 7.5/16

Left Out: 32.874 $\pm$ 61.834 χ^2 /NDF: 4.7/17

Right Out: 9.982 $\pm$ 73.310 χ^2 /NDF: 7.9/18

Left In: 45.281 $\pm$ 53.877 χ^2 /NDF: 7.1/16

Left: 39.926 $\pm$ 40.621 χ^2 /NDF: 11.8/34

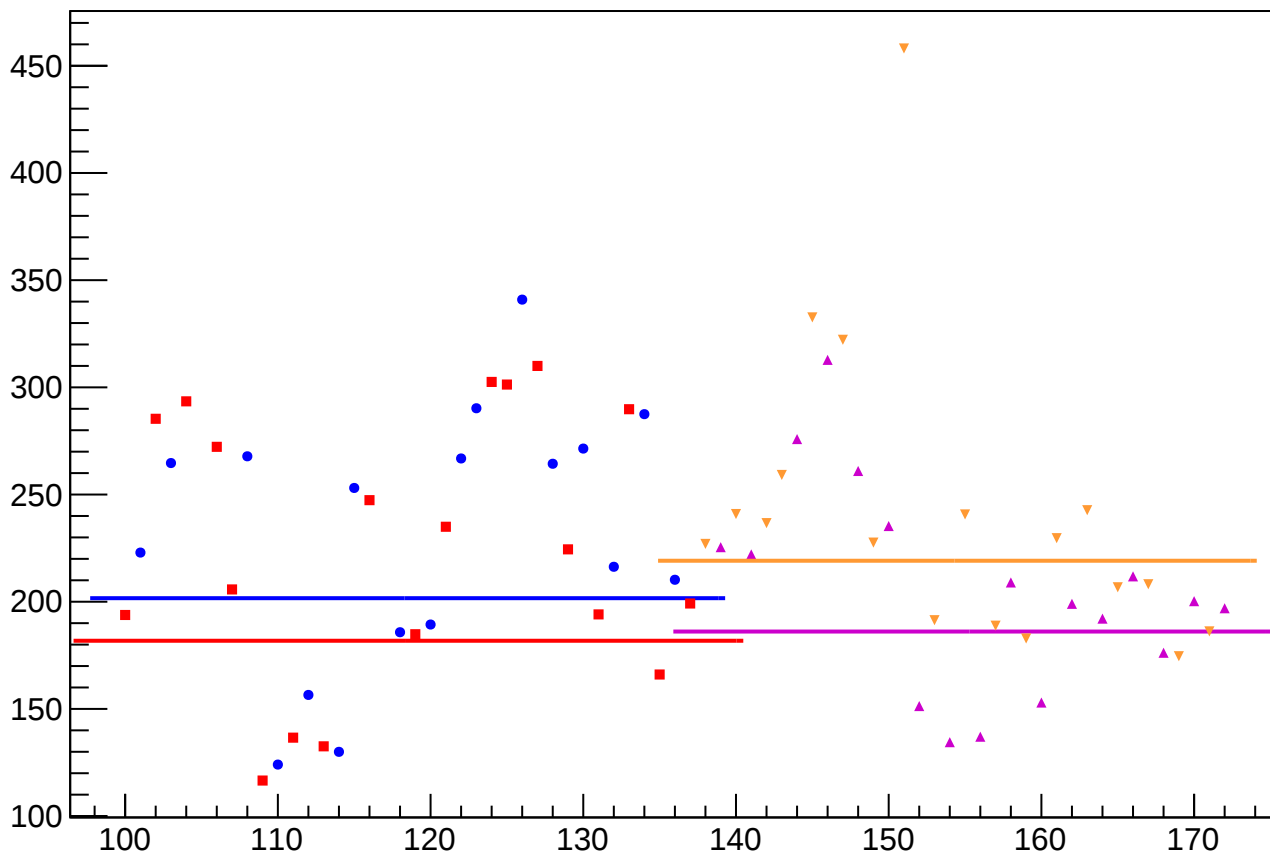
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 55.508 $\pm$ 45.006 χ^2 /NDF: 14.7/33

Out: 23.358 $\pm$ 47.266 χ^2 /NDF: 12.6/36

All: 40.220 $\pm$ 32.594 χ^2 /NDF: 27.6/70

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654+/-0.058 χ^2/NDF : 883179.7/16

Left Out: 219.121+/-0.044 χ^2/NDF : 1121901.7/17

Right Out: 181.797+/-0.052 χ^2/NDF : 1377449.9/18

Left In: 186.092+/-0.038 χ^2/NDF : 1341777.0/16

Left: 200.346+/-0.029 χ^2/NDF : 2788049.9/34

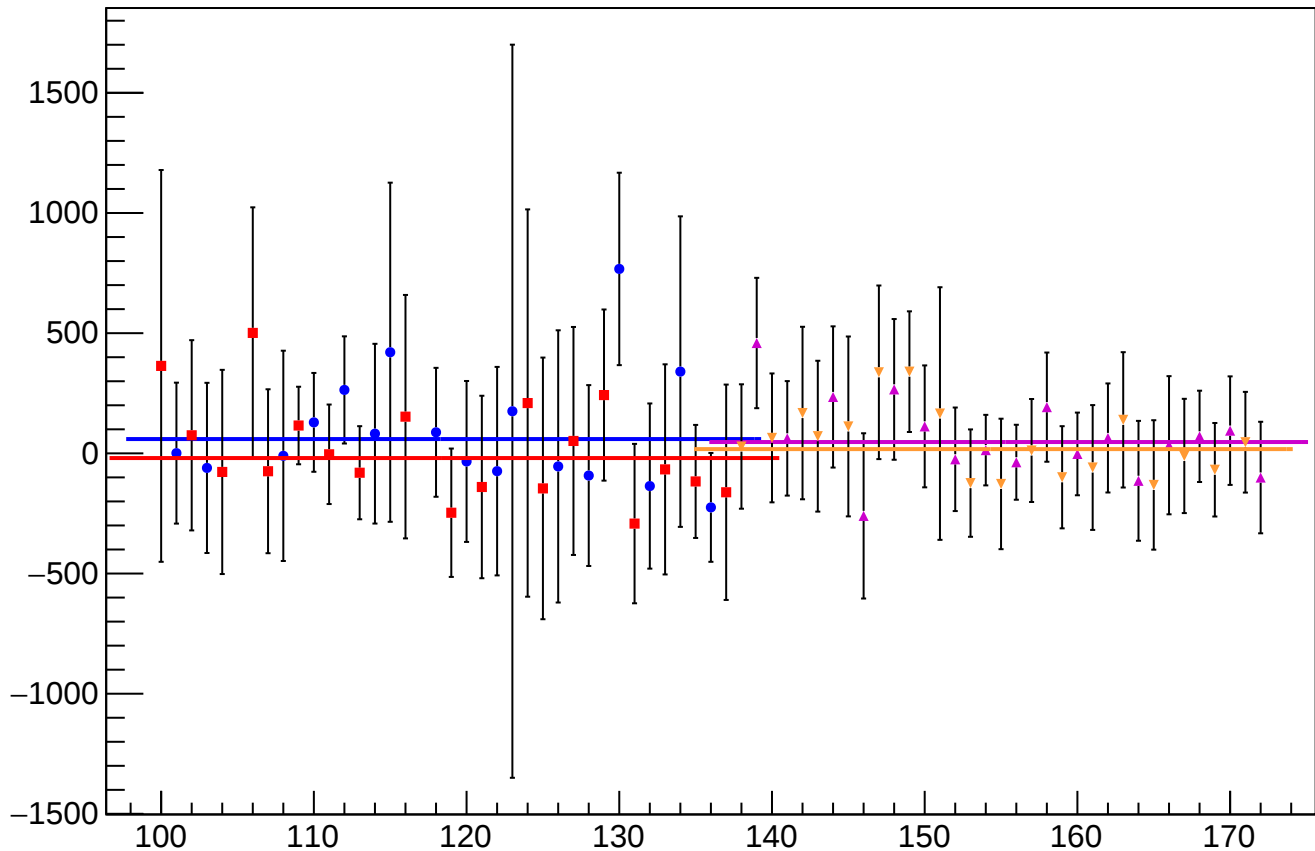
Right: 190.633+/-0.039 χ^2/NDF : 2325921.8/35

In: 190.795+/-0.032 χ^2/NDF : 2275376.4/33

Out: 203.606+/-0.033 χ^2/NDF : 2802260.5/36

All: 196.887+/-0.023 χ^2/NDF : 5154696.4/70

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2/NDF : 7.0/16

Left Out: 17.680 $\pm$ 61.225 χ^2/NDF : 4.6/17

Right Out: -19.541 $\pm$ 71.866 χ^2/NDF : 4.7/18

Left In: 47.114 $\pm$ 53.125 χ^2/NDF : 6.0/16

Left: 34.471 $\pm$ 40.126 χ^2/NDF : 10.7/34

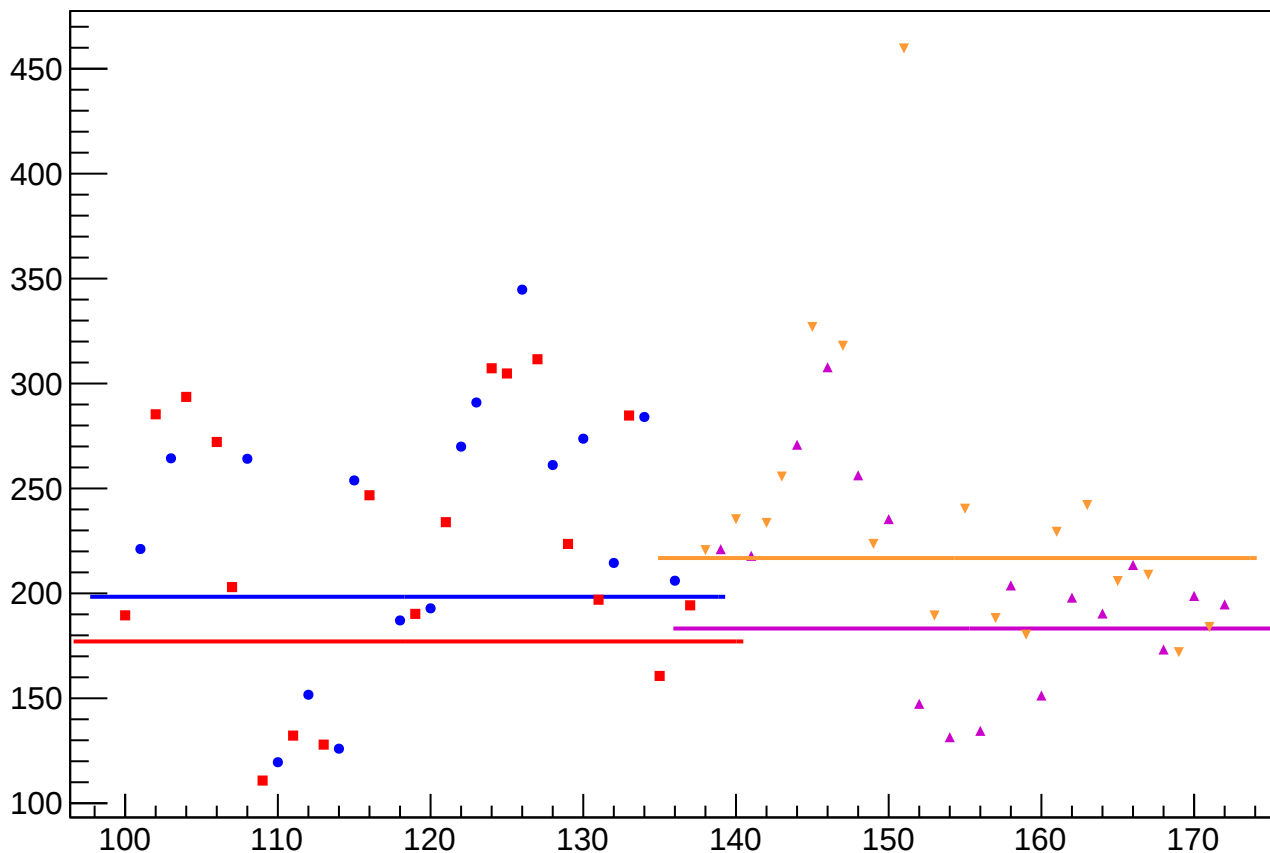
Right: 15.364 $\pm$ 53.701 χ^2/NDF : 12.3/35

In: 50.850 $\pm$ 44.392 χ^2/NDF : 13.0/33

Out: 2.026 $\pm$ 46.605 χ^2/NDF : 9.5/36

All: 27.625 $\pm$ 32.144 χ^2/NDF : 23.1/70

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 216.842+/-0.043 χ^2/NDF :1124986.2/17

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 183.258+/-0.038 χ^2/NDF :1367794.4/16

Left: 197.683+/-0.028 χ^2/NDF : 2836071.9/34

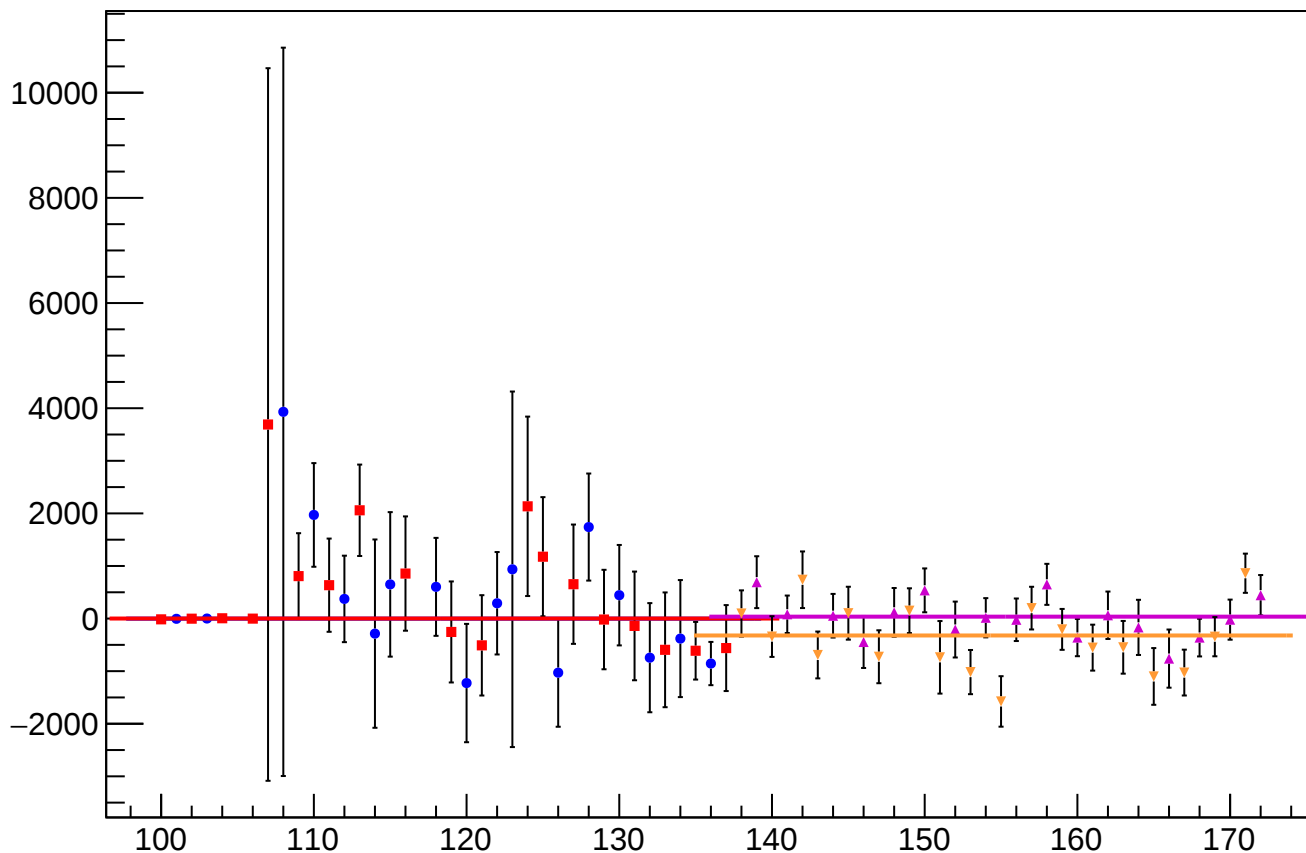
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 187.821+/-0.031 χ^2/NDF :2380358.4/33

Out: 200.126+/-0.033 χ^2/NDF :3004212.7/36

All: 193.674+/-0.023 χ^2/NDF : 5457674.4/70

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -321.434 ± 104.901 χ^2/NDF : 35.0/17

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 36.415 ± 101.564 χ^2/NDF : 12.8/16

Left: -136.727 ± 72.968 χ^2/NDF : 53.8/34

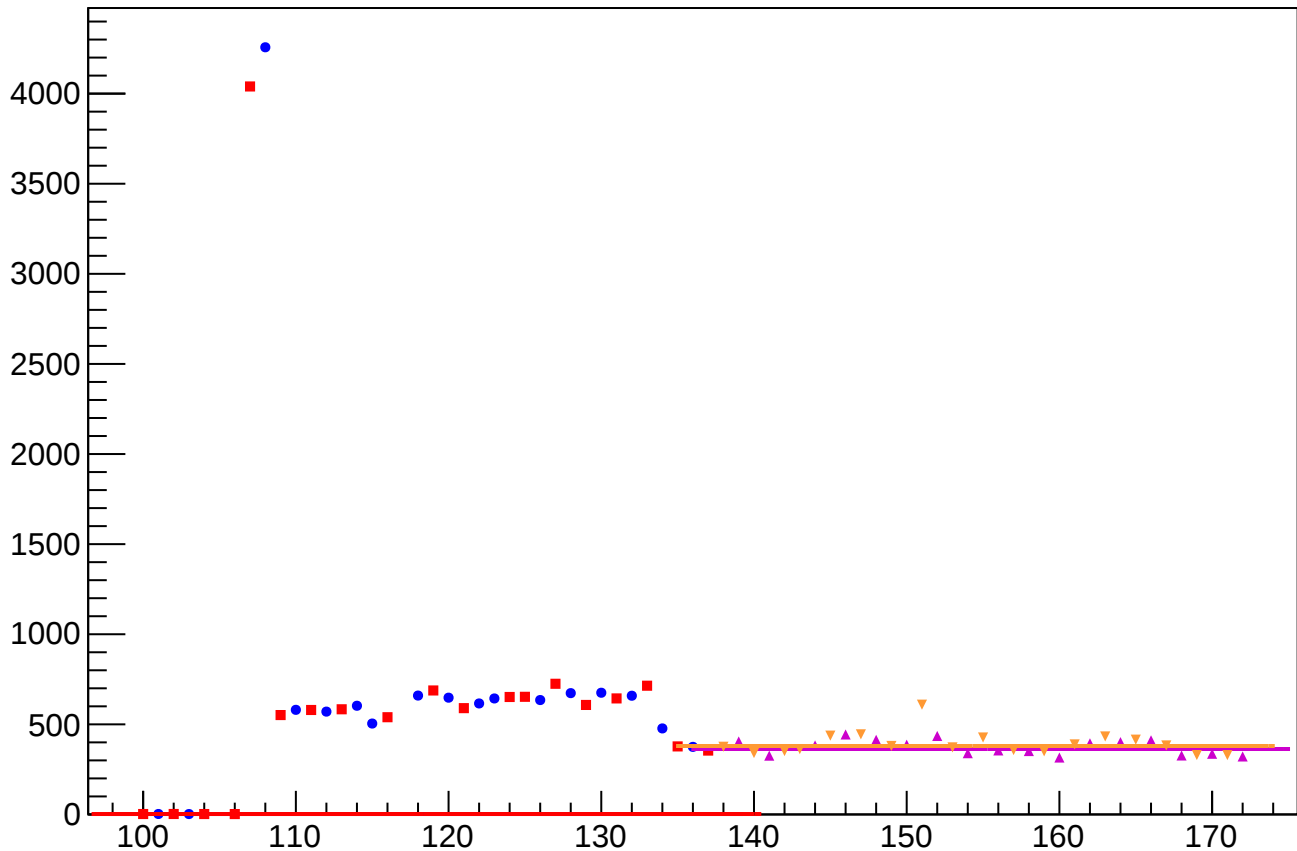
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.511 ± 2.251 χ^2/NDF : 29.9/33

Out: 0.596 ± 2.111 χ^2/NDF : 63.7/36

All: -0.390 ± 1.540 χ^2/NDF : 94.1/70

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 379.894+/-0.074 χ^2/NDF : 451729.5/17

Right Out: 2.437+/-0.001 χ^2/NDF : 11147393.9/18

Left In: 363.227+/-0.072 χ^2/NDF : 295863.9/16

Left: 371.292+/-0.052 χ^2/NDF : 773652.2/34

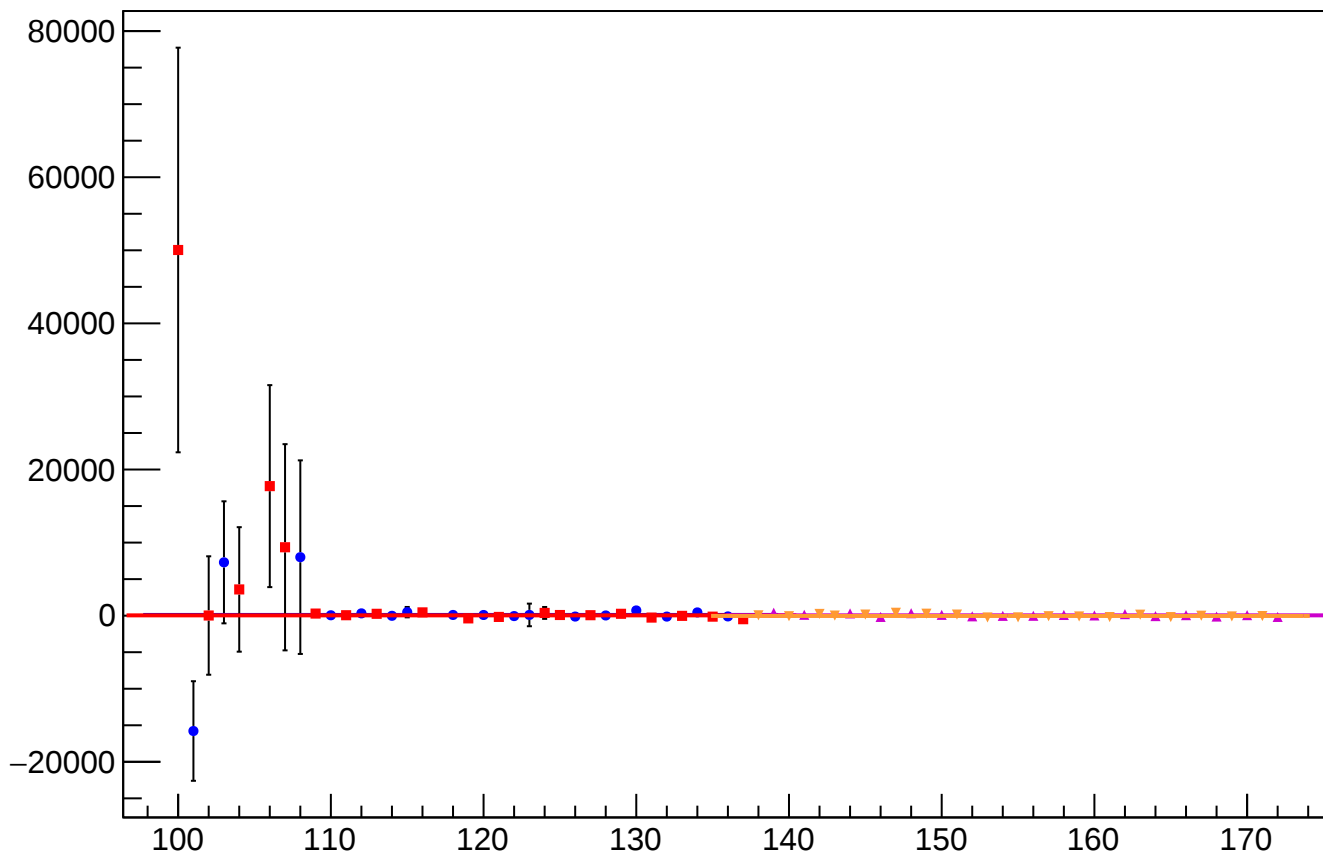
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.634+/-0.002 χ^2/NDF : 36366776.8/33

Out: 2.590+/-0.001 χ^2/NDF : 37483108.3/36

All: 2.610+/-0.001 χ^2/NDF : 73850297.4/70

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -35.927+/-63.716 χ^2/NDF : 6.1/17

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 45.046+/-56.397 χ^2/NDF : 6.8/16

Left: 9.475+/-42.231 χ^2/NDF : 13.8/34

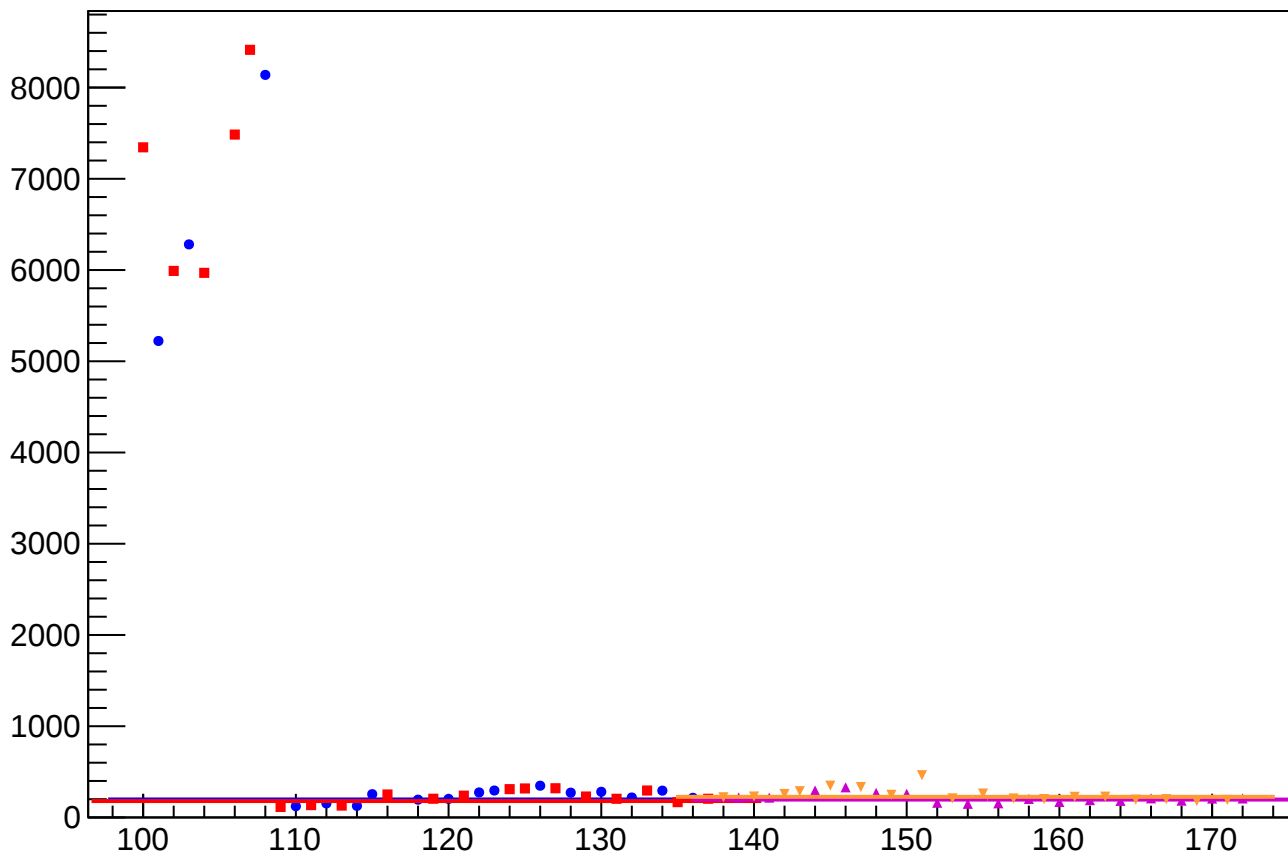
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 59.952+/-47.917 χ^2/NDF : 18.9/33

Out: -7.569+/-50.873 χ^2/NDF : 20.5/36

All: 28.211+/-34.881 χ^2/NDF : 40.3/70

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 226.101+/-0.045 χ^2/NDF :1108346.7/17

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 196.028+/-0.040 χ^2/NDF :1079529.4/16

Left: 209.239+/-0.030 χ^2/NDF : 2437690.0/34

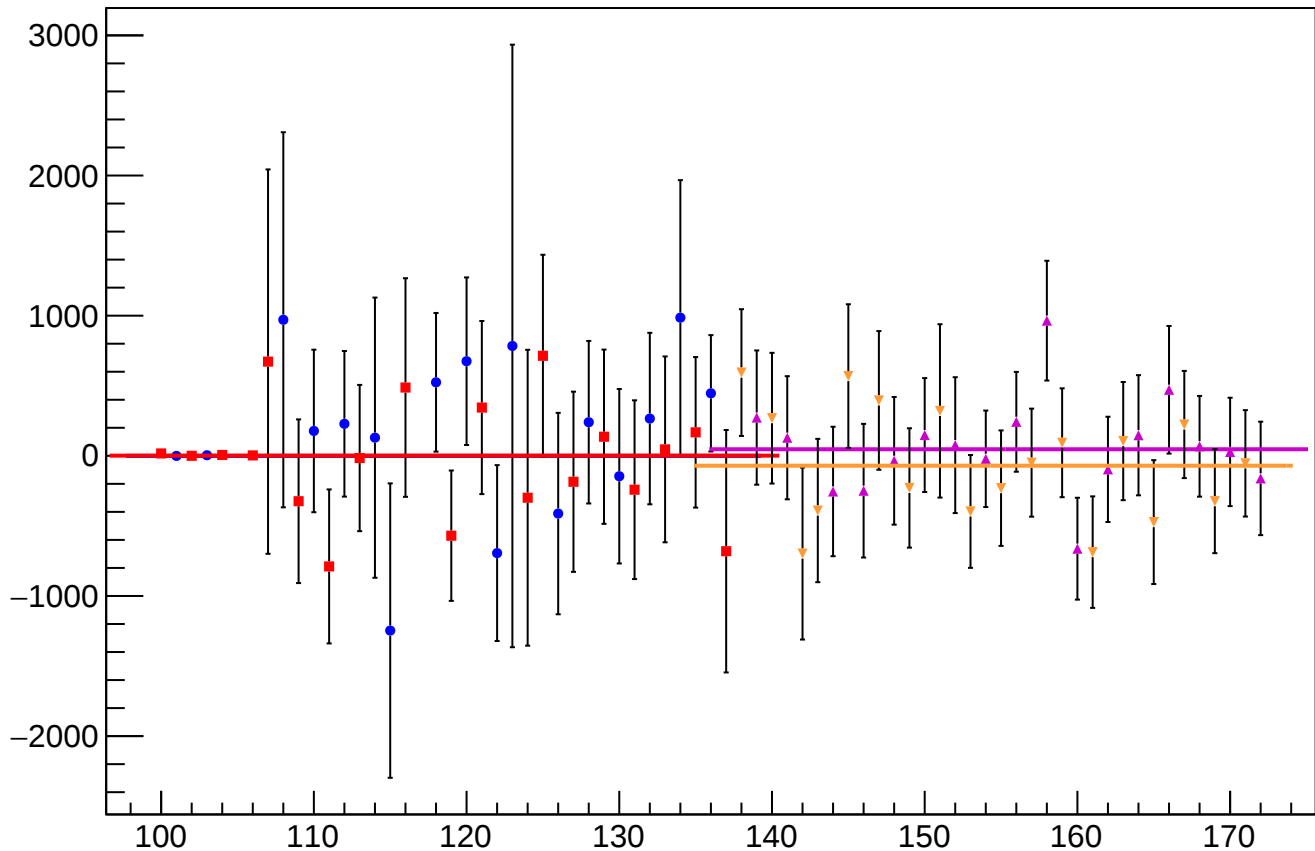
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.322+/-0.034 χ^2/NDF :4773338.9/33

Out: 209.371+/-0.036 χ^2/NDF :5809900.3/36

All: 202.457+/-0.025 χ^2/NDF : 10652962.7/70

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -70.489 ± 102.319 χ^2/NDF : 12.6/17

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 46.860 ± 99.489 χ^2/NDF : 11.3/16

Left: -10.170 ± 71.329 χ^2/NDF : 24.5/34

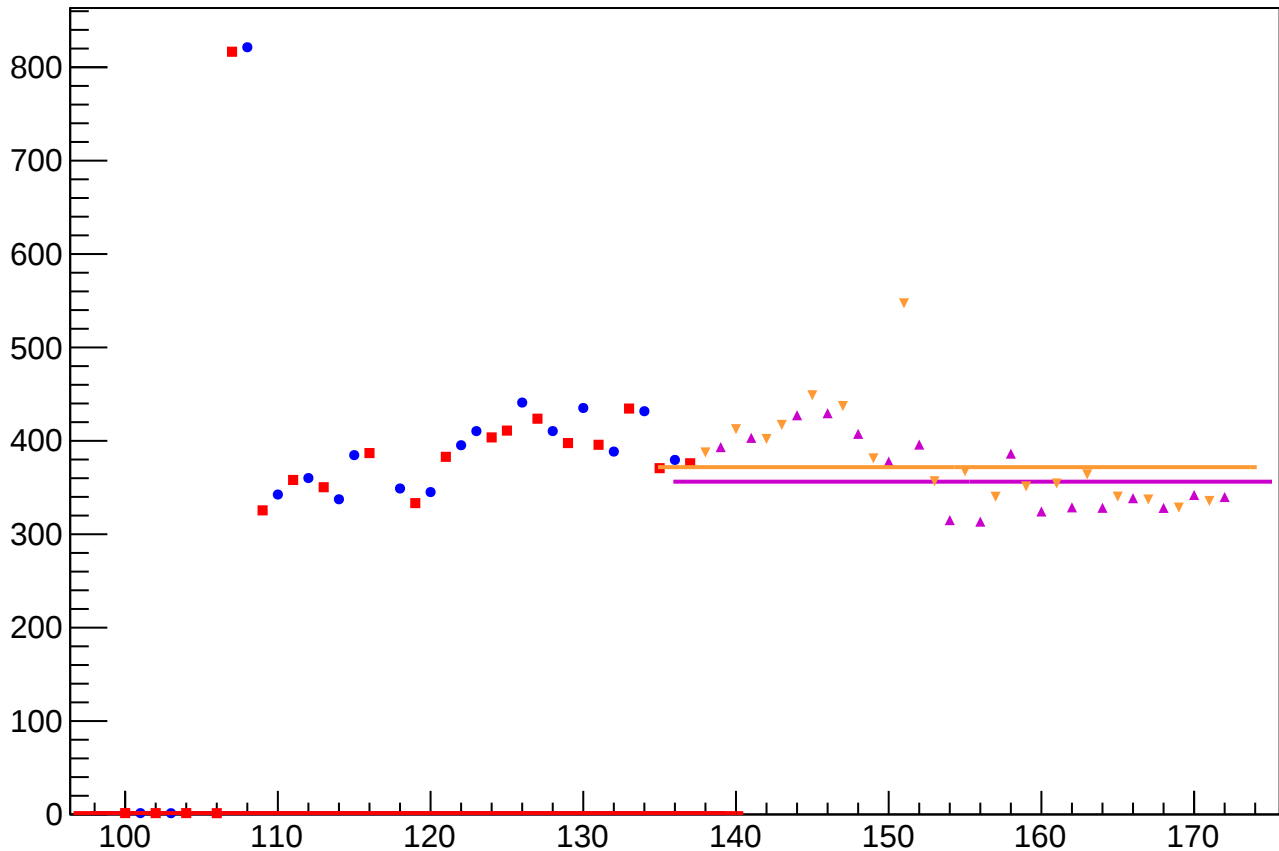
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.124 ± 1.736 χ^2/NDF : 21.2/33

Out: 1.305 ± 1.622 χ^2/NDF : 22.7/36

All: 0.639 ± 1.185 χ^2/NDF : 44.3/70

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 371.841+/-0.072 χ^2/NDF : 378863.4/17

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 356.278+/-0.070 χ^2/NDF : 296958.5/16

Left: 363.842+/-0.050 χ^2/NDF : 699606.2/34

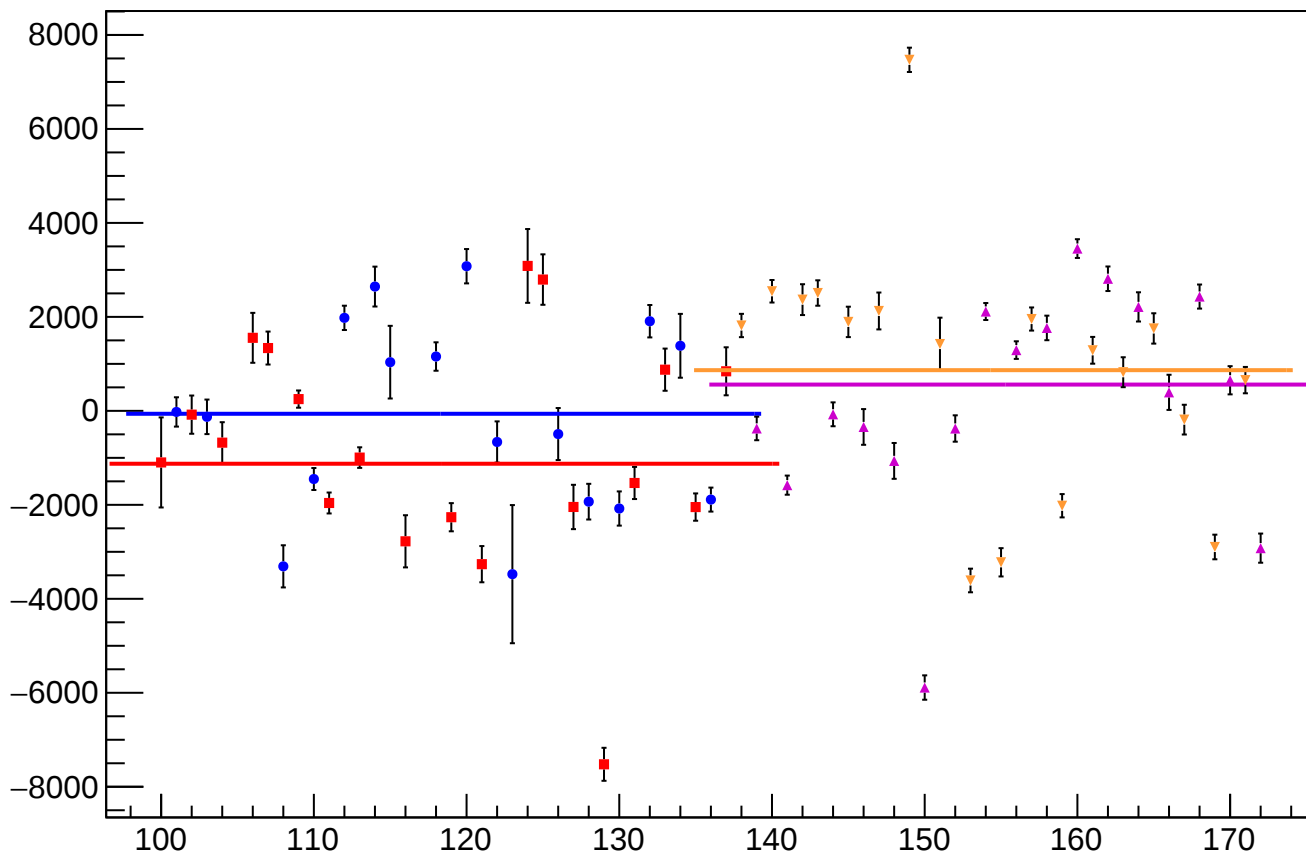
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.561+/-0.001 χ^2/NDF : 36686650.2/33

Out: 1.544+/-0.001 χ^2/NDF : 37461245.8/36

All: 1.552+/-0.001 χ^2/NDF : 74147995.1/70

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 $\chi^2/\text{NDF}: 433.9/16$

Left Out: 866.000 ± 67.516 $\chi^2/\text{NDF}: 1678.1/17$

Right Out: -1125.437 ± 78.370 $\chi^2/\text{NDF}: 671.2/18$

Left In: 559.398 ± 61.472 $\chi^2/\text{NDF}: 1386.6/16$

Left: 698.366 ± 45.454 $\chi^2/\text{NDF}: 3076.1/34$

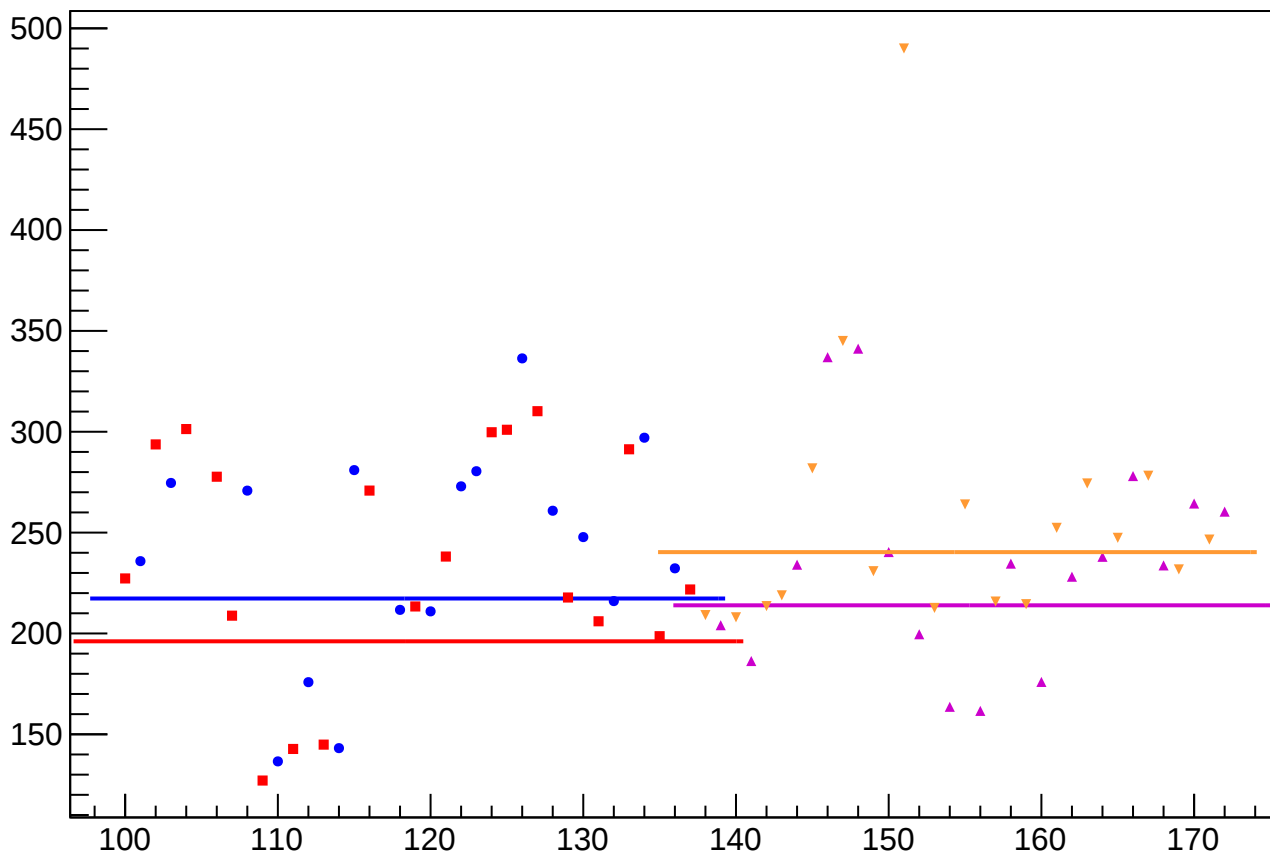
Right: -651.694 ± 58.355 $\chi^2/\text{NDF}: 1187.1/35$

In: 353.756 ± 50.285 $\chi^2/\text{NDF}: 1854.4/33$

Out: 17.631 ± 51.151 $\chi^2/\text{NDF}: 2720.0/36$

All: 188.563 ± 35.859 $\chi^2/\text{NDF}: 4596.3/70$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330+/-0.062 χ^2/NDF : 652722.5/16

Left Out: 240.325+/-0.048 χ^2/NDF : 805170.4/17

Right Out: 196.105+/-0.055 χ^2/NDF : 1190733.6/18

Left In: 213.953+/-0.043 χ^2/NDF : 1096254.0/16

Left: 225.906+/-0.032 χ^2/NDF : 2068267.1/34

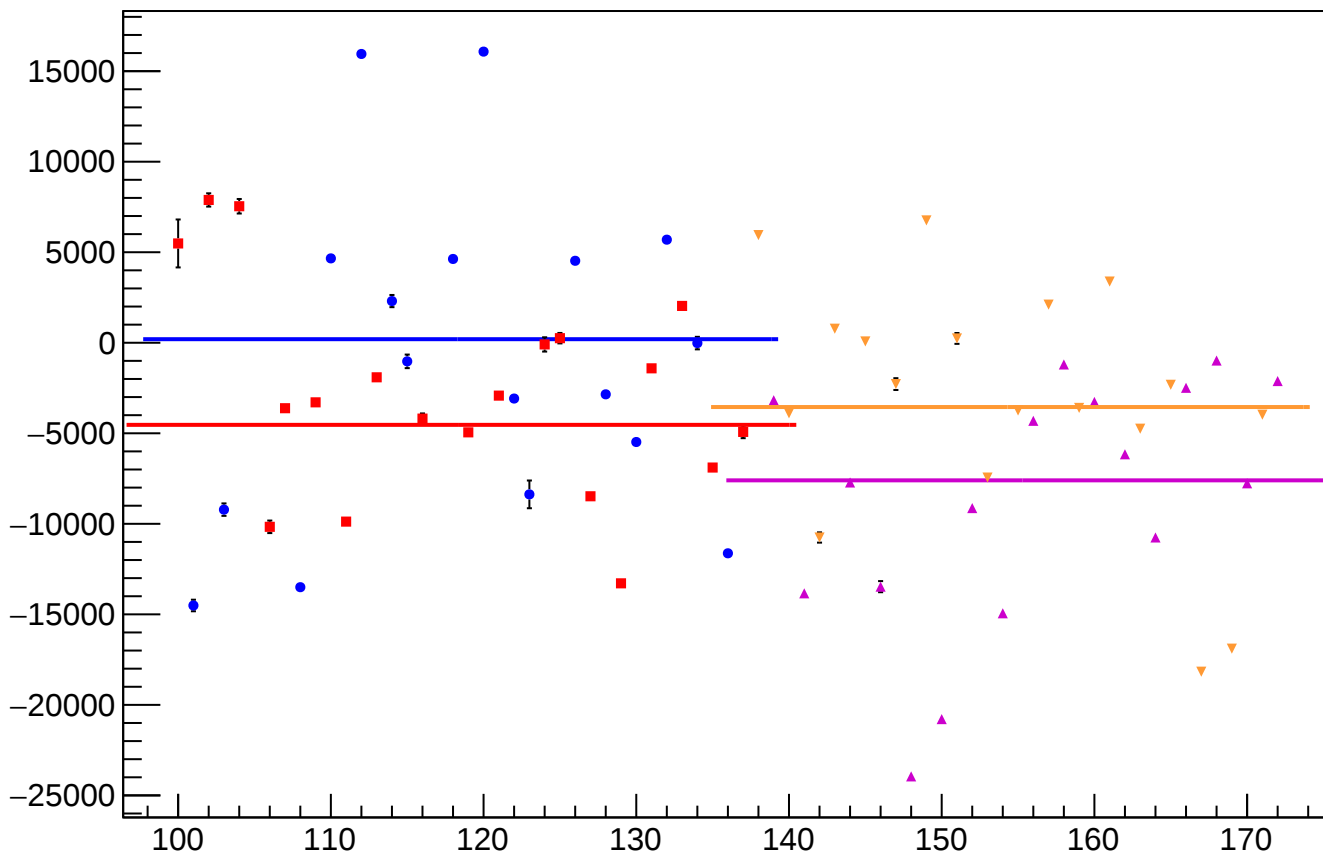
Right: 205.562+/-0.041 χ^2/NDF : 1908816.5/35

In: 215.070+/-0.036 χ^2/NDF : 1750973.8/33

Out: 221.487+/-0.036 χ^2/NDF : 2361390.9/36

All: 218.224+/-0.025 χ^2/NDF : 4128371.5/70

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 $\pm$ 54.799 χ^2/NDF : 30658.3/16

Left Out: -3550.364 $\pm$ 47.085 χ^2/NDF :19806.9/17

Right Out: -4534.200 $\pm$ 52.462 χ^2/NDF : 7477.2/18

Left In: -7599.351 $\pm$ 48.089 χ^2/NDF :17192.2/16

Left: -5532.122 $\pm$ 33.643 χ^2/NDF : 40618.5/34

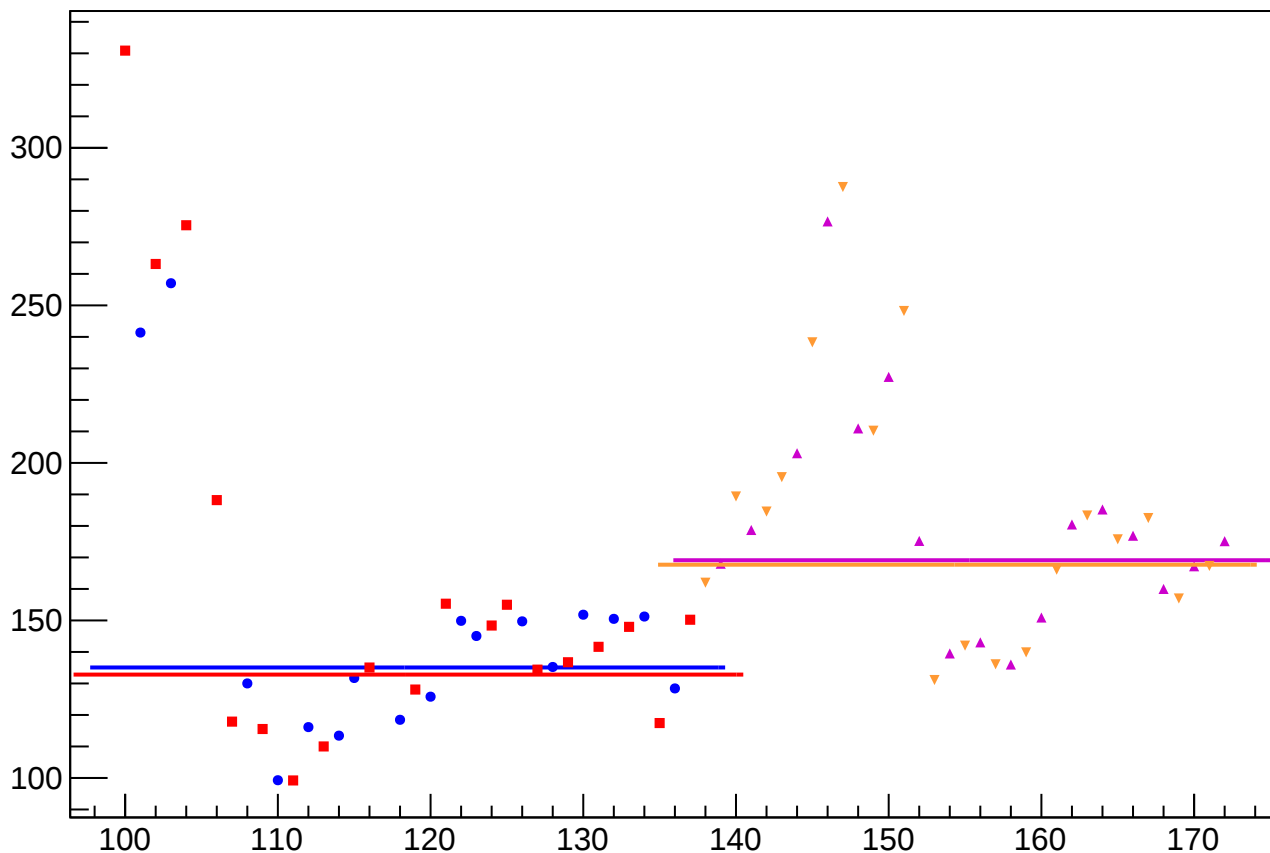
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4207.409 $\pm$ 36.145 χ^2/NDF :59285.6/33

Out: -3989.295 $\pm$ 35.041 χ^2/NDF :27478.9/36

All: -4094.971 $\pm$ 25.159 χ^2/NDF : 86783.3/70

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 167.695+/-0.033 χ^2/NDF :1020786.2/17

Right Out: 132.816+/-0.037 χ^2/NDF : 831191.5/18

Left In: 169.110+/-0.034 χ^2/NDF :738636.3/16

Left: 168.388+/-0.024 χ^2/NDF : 1760307.2/34

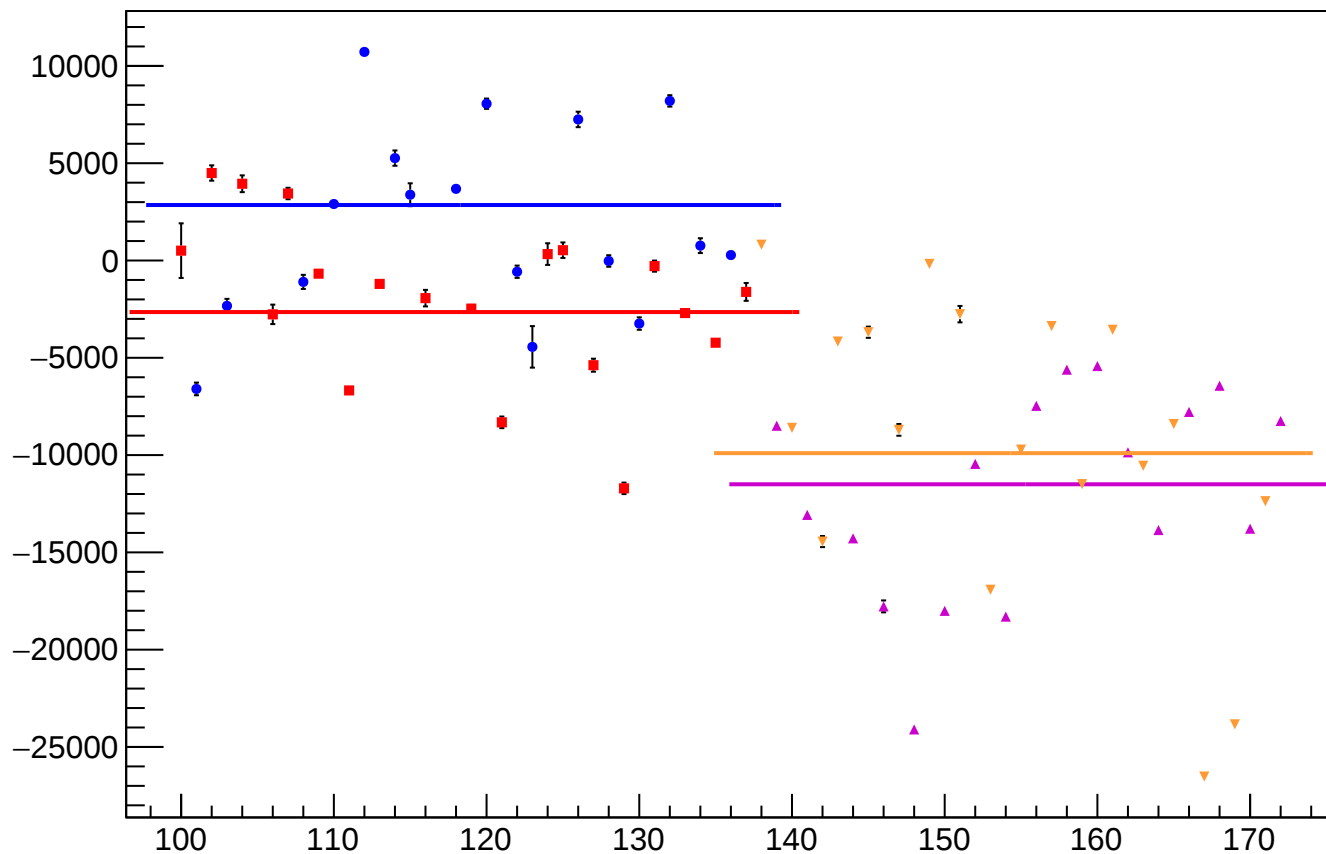
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 154.301+/-0.026 χ^2/NDF :1833281.0/33

Out: 152.134+/-0.025 χ^2/NDF :2341598.2/36

All: 153.184+/-0.018 χ^2/NDF : 4178586.0/70

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 ± 70.753 $\chi^2/\text{NDF}: 4178.1/16$

Left Out: -9900.273 ± 53.180 $\chi^2/\text{NDF}: 21012.0/17$

Right Out: -2649.142 ± 65.731 $\chi^2/\text{NDF}: 3175.7/18$

Left In: -11500.001 ± 49.042 $\chi^2/\text{NDF}: 10804.2/16$

Left: -10764.787 ± 36.052 $\chi^2/\text{NDF}: 32305.2/34$

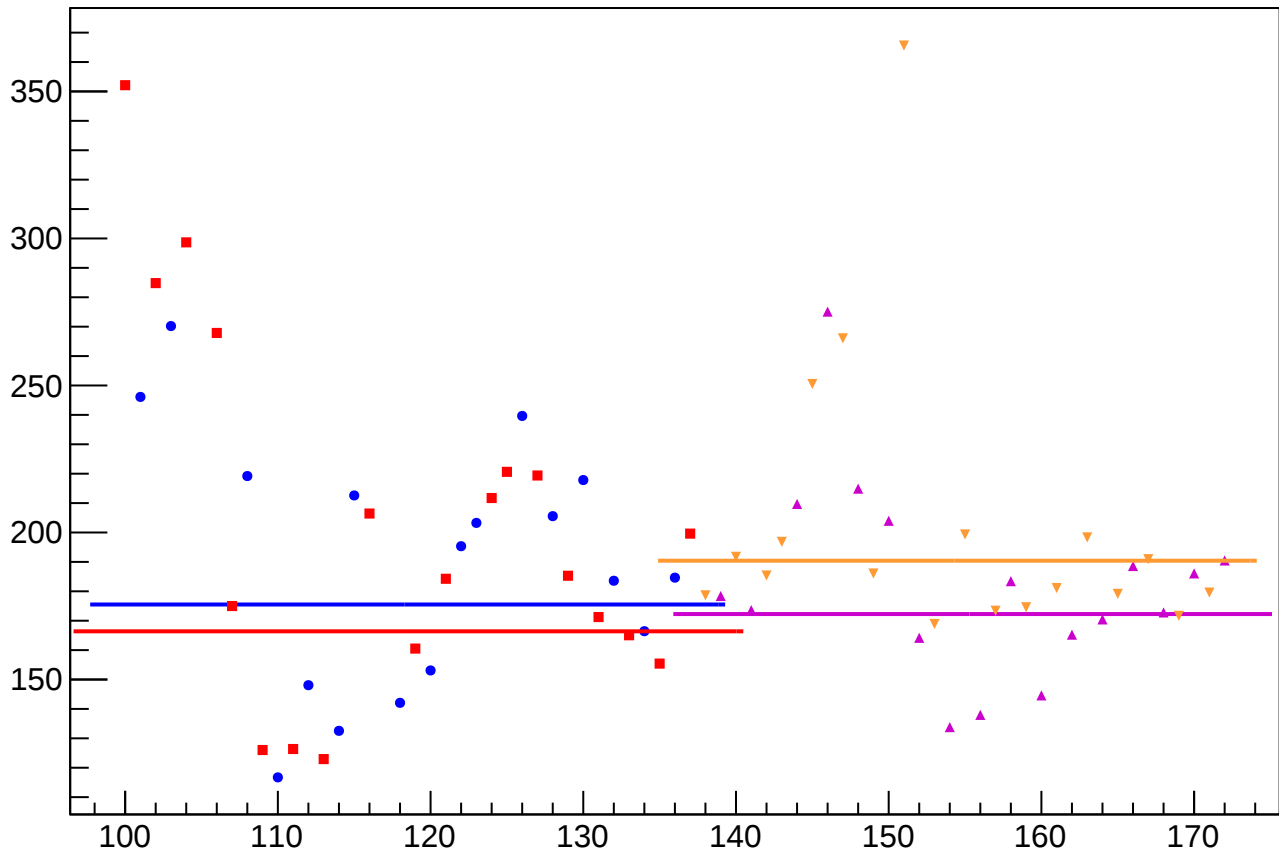
Right: -100.998 ± 48.156 $\chi^2/\text{NDF}: 10597.9/35$

In: -6842.609 ± 40.306 $\chi^2/\text{NDF}: 42773.4/33$

Out: -7031.644 ± 41.343 $\chi^2/\text{NDF}: 31542.9/36$

All: -6934.726 ± 28.860 $\chi^2/\text{NDF}: 74327.0/70$

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 190.410 $\pm$ 0.038 χ^2 /NDF: 656155.6/17

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 172.262 $\pm$ 0.035 χ^2 /NDF: 710439.7/16

Left: 180.603 $\pm$ 0.025 χ^2 /NDF: 1492464.2/34

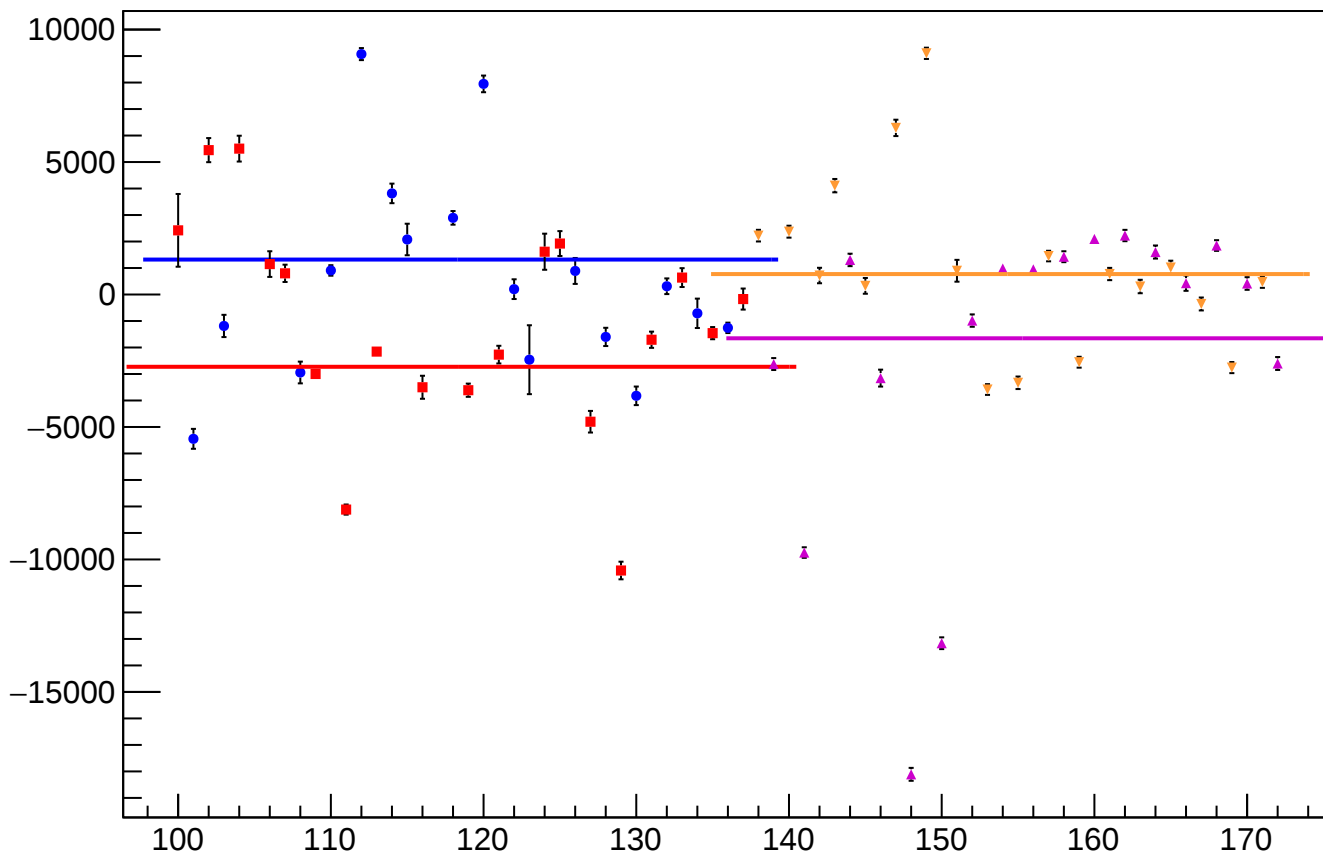
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 173.318 $\pm$ 0.029 χ^2 /NDF: 1402936.1/33

Out: 180.909 $\pm$ 0.029 χ^2 /NDF: 1747071.3/36

All: 177.017 $\pm$ 0.020 χ^2 /NDF: 3184576.6/70

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 771.369+/-56.147 χ^2/NDF :3467.1/17

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1652.600+/-51.553 χ^2/NDF :11302.8/16

Left: -543.824+/-37.974 χ^2/NDF : 15781.1/34

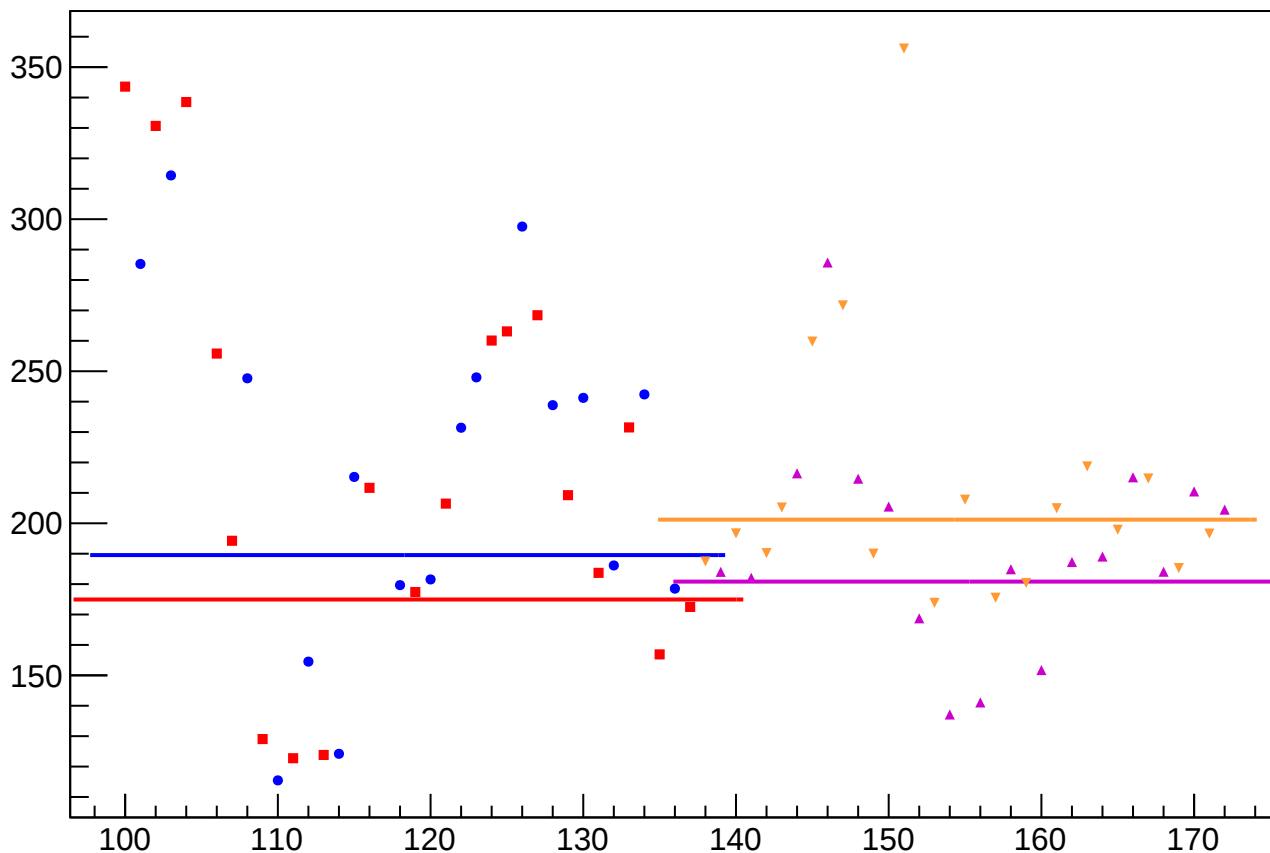
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -735.236+/-42.863 χ^2/NDF :14995.5/33

Out: -597.840+/-43.806 χ^2/NDF :7482.7/36

All: -668.032+/-30.637 χ^2/NDF : 22483.3/70

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 201.202 $\pm$ 0.040 χ^2 /NDF: 601848.4/17

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 180.823 $\pm$ 0.036 χ^2 /NDF: 757073.6/16

Left: 190.144 $\pm$ 0.027 χ^2 /NDF: 1501878.0/34

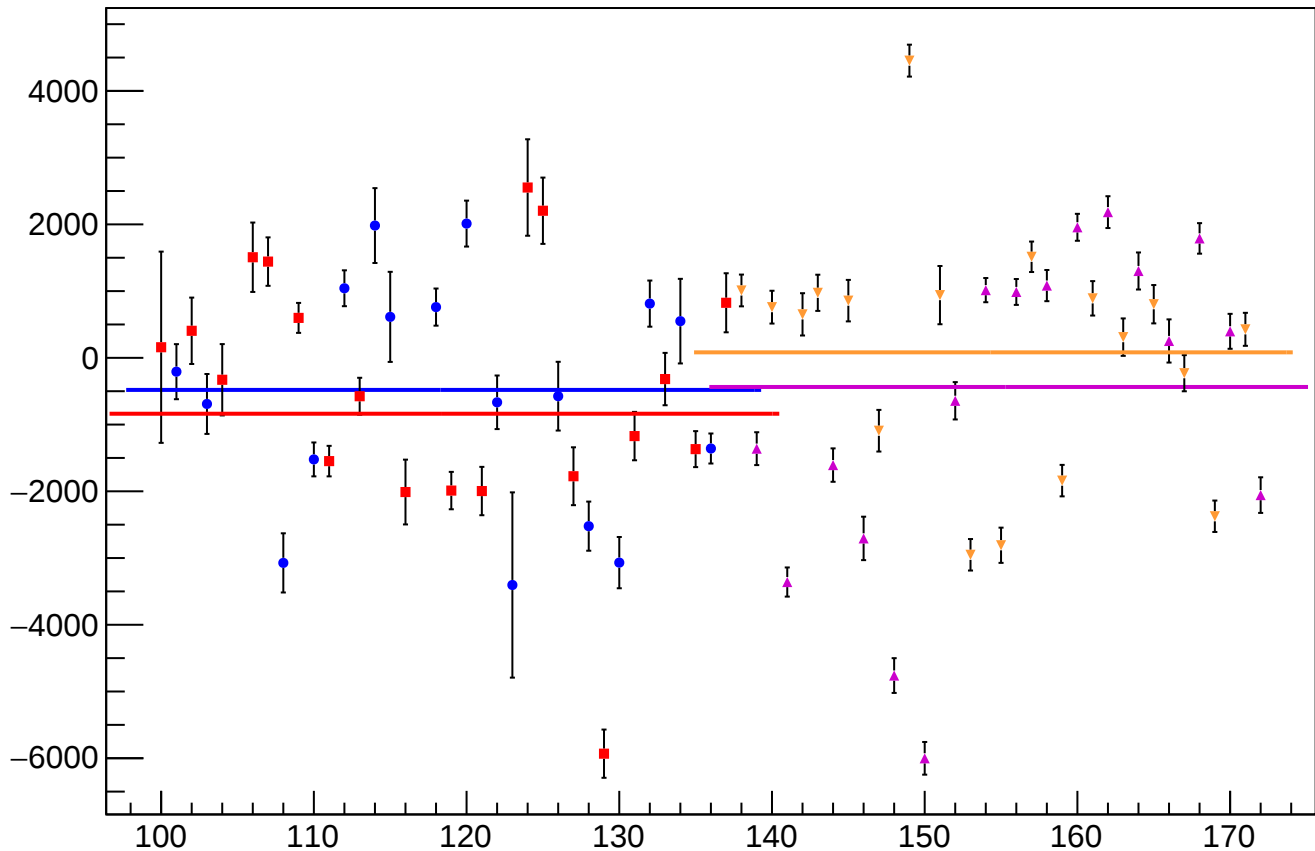
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 183.515 $\pm$ 0.030 χ^2 /NDF: 1755490.3/33

Out: 190.927 $\pm$ 0.031 χ^2 /NDF: 2070114.1/36

All: 187.140 $\pm$ 0.022 χ^2 /NDF: 3854855.1/70

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 82.318±/62.201 χ^2/NDF :914.7/17

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -436.447±/58.251 χ^2/NDF :1662.6/16

Left: -194.059±/42.517 χ^2/NDF : 2614.4/34

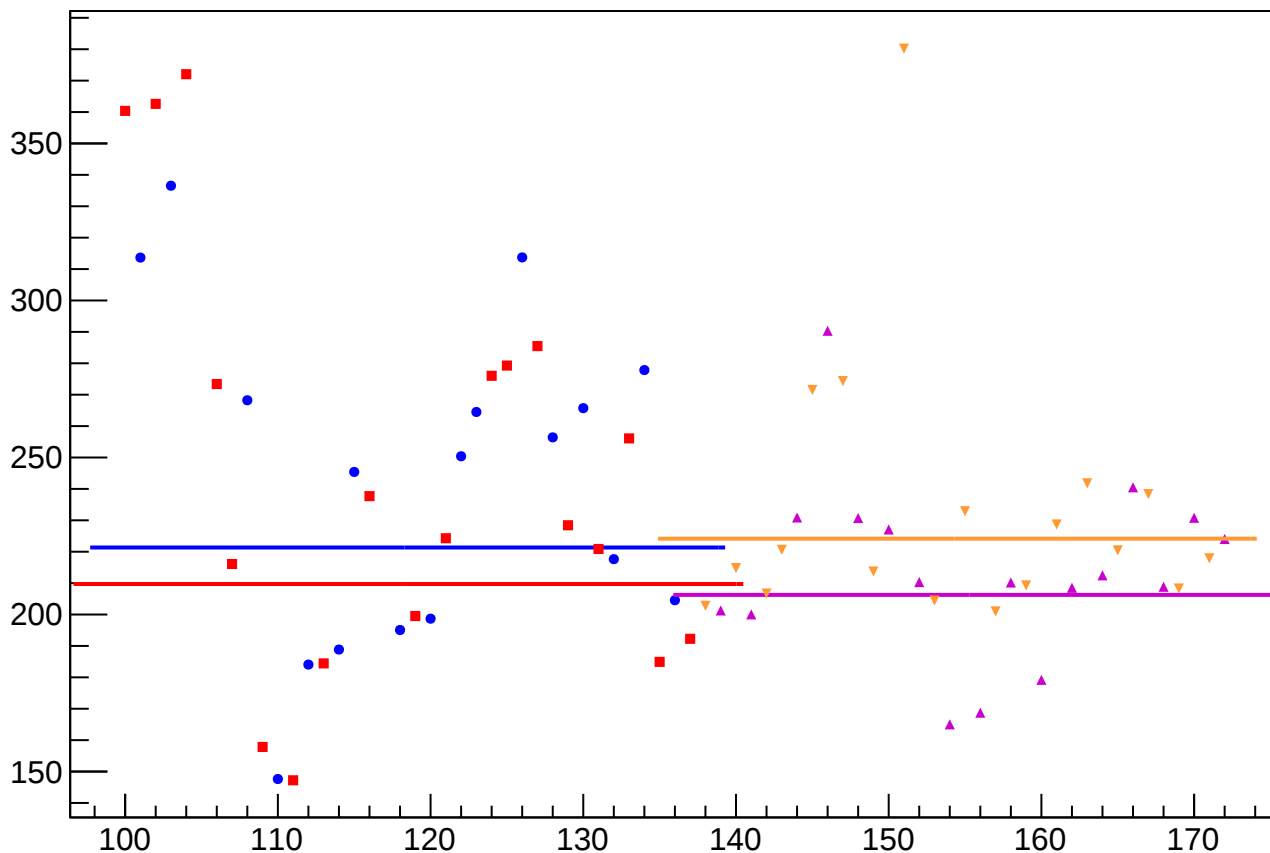
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -449.757±/48.680 χ^2/NDF :1953.5/33

Out: -252.353±/49.610 χ^2/NDF :1429.6/36

All: -352.923±/34.746 χ^2/NDF : 3391.1/70

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 224.152 $\pm$ 0.044 χ^2 /NDF: 452663.1/17

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 206.253 $\pm$ 0.041 χ^2 /NDF: 452900.9/16

Left: 214.616 $\pm$ 0.030 χ^2 /NDF: 993798.2/34

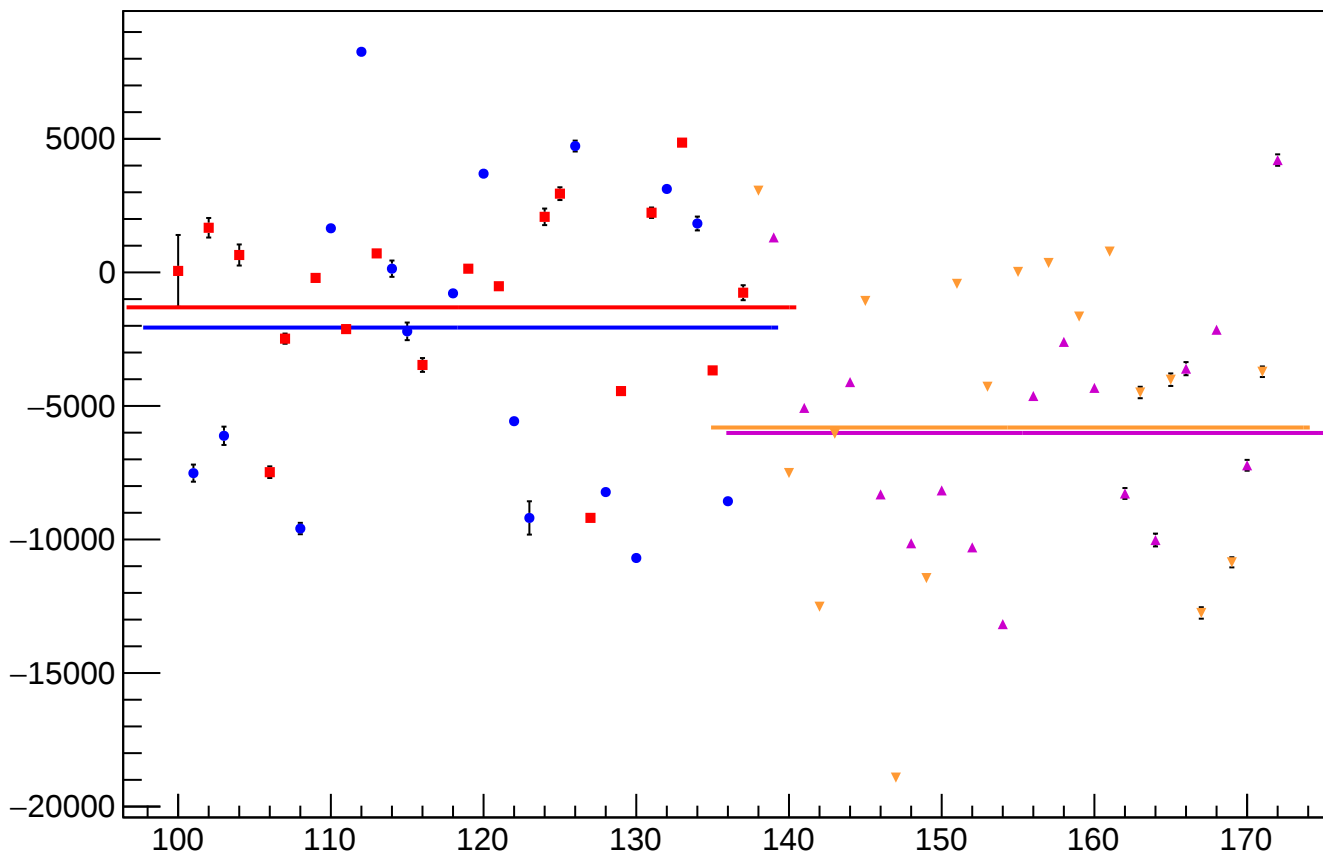
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 210.804 $\pm$ 0.034 χ^2 /NDF: 1139064.3/33

Out: 218.900 $\pm$ 0.035 χ^2 /NDF: 1375778.3/36

All: 214.775 $\pm$ 0.025 χ^2 /NDF: 2541975.6/70

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -5807.080 ± 36.075 $\chi^2/\text{NDF}: 30142.5/17$

Right Out: -1308.512 ± 45.001 $\chi^2/\text{NDF}: 5894.4/18$

Left In: -6011.899 ± 36.873 $\chi^2/\text{NDF}: 12005.0/16$

Left: -5907.250 ± 25.786 $\chi^2/\text{NDF}: 42163.2/34$

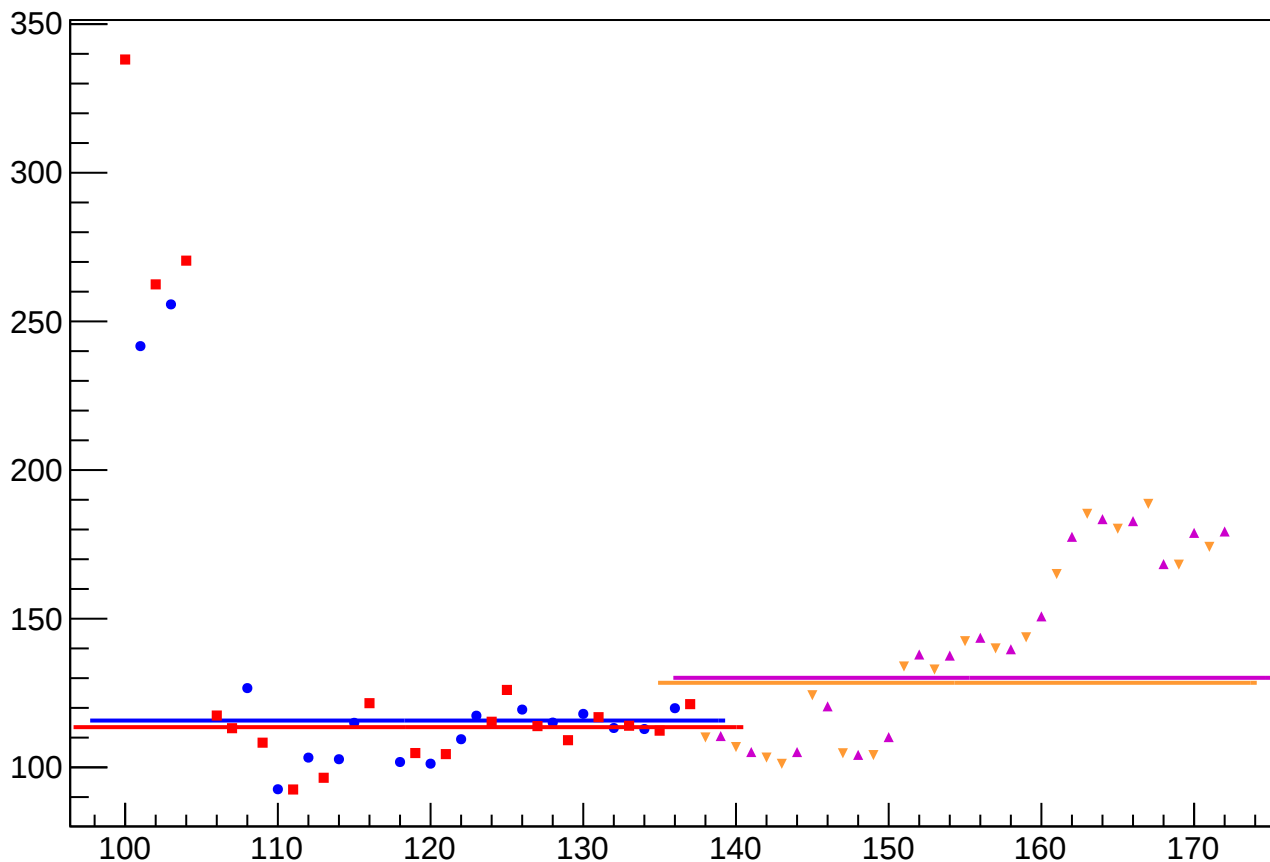
Right: -1667.825 ± 32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4520.925 ± 29.086 $\chi^2/\text{NDF}: 32866.3/33$

Out: -4047.136 ± 28.147 $\chi^2/\text{NDF}: 42120.5/36$

All: -4276.263 ± 20.227 $\chi^2/\text{NDF}: 75123.9/70$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 128.441+/-0.026 χ^2/NDF :1125852.0/17

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 130.115+/-0.026 χ^2/NDF :1059627.3/16

Left: 129.259+/-0.018 χ^2/NDF : 2187585.5/34

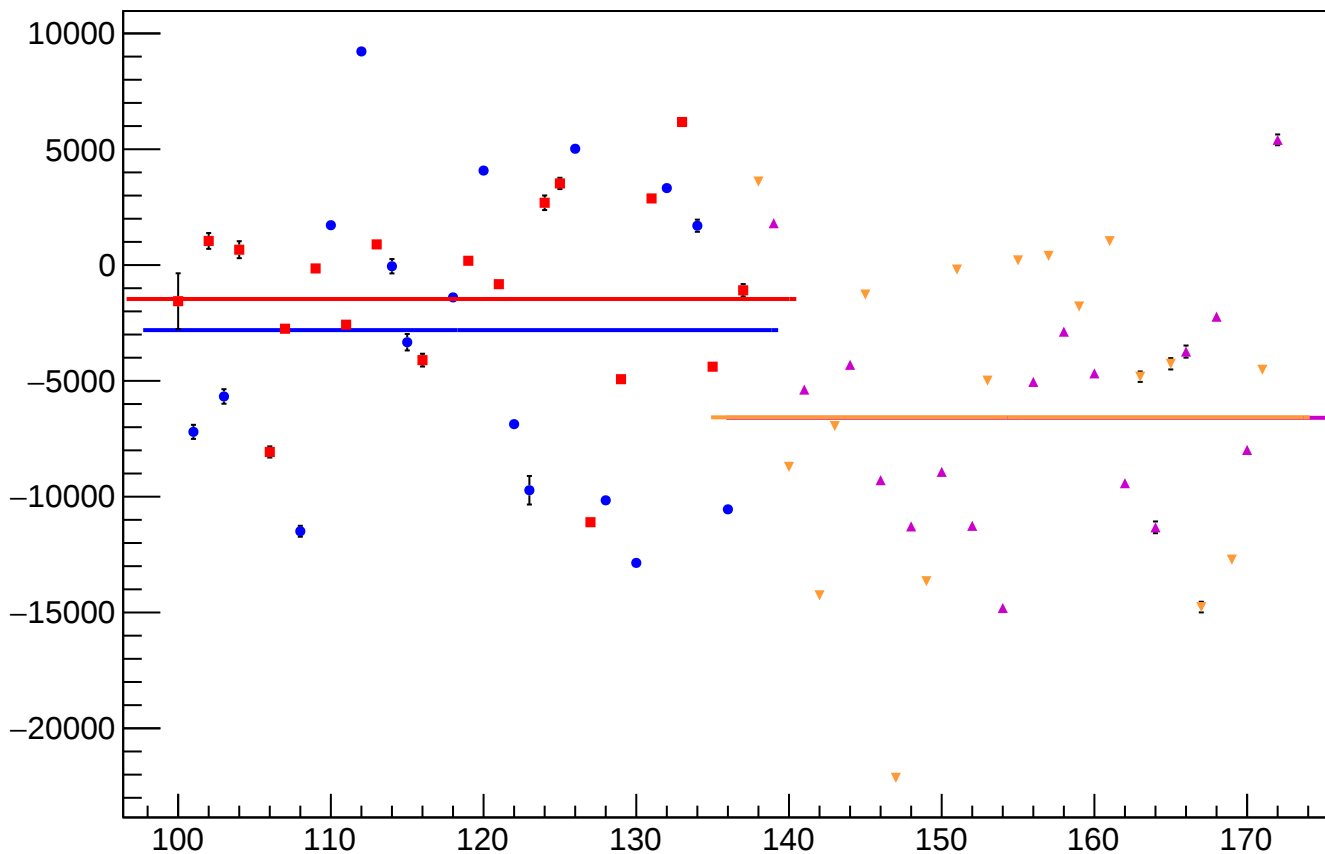
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 124.684+/-0.021 χ^2/NDF :1918463.1/33

Out: 122.603+/-0.020 χ^2/NDF :2056358.5/36

All: 123.610+/-0.014 χ^2/NDF : 3980111.1/70

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -6573.995+/-38.304 χ^2/NDF : 36468.7/17

Right Out: -1465.074+/-46.394 χ^2/NDF : 8004.7/18

Left In: -6594.887+/-39.191 χ^2/NDF : 14112.4/16

Left: -6584.201+/-27.393 χ^2/NDF : 50581.3/34

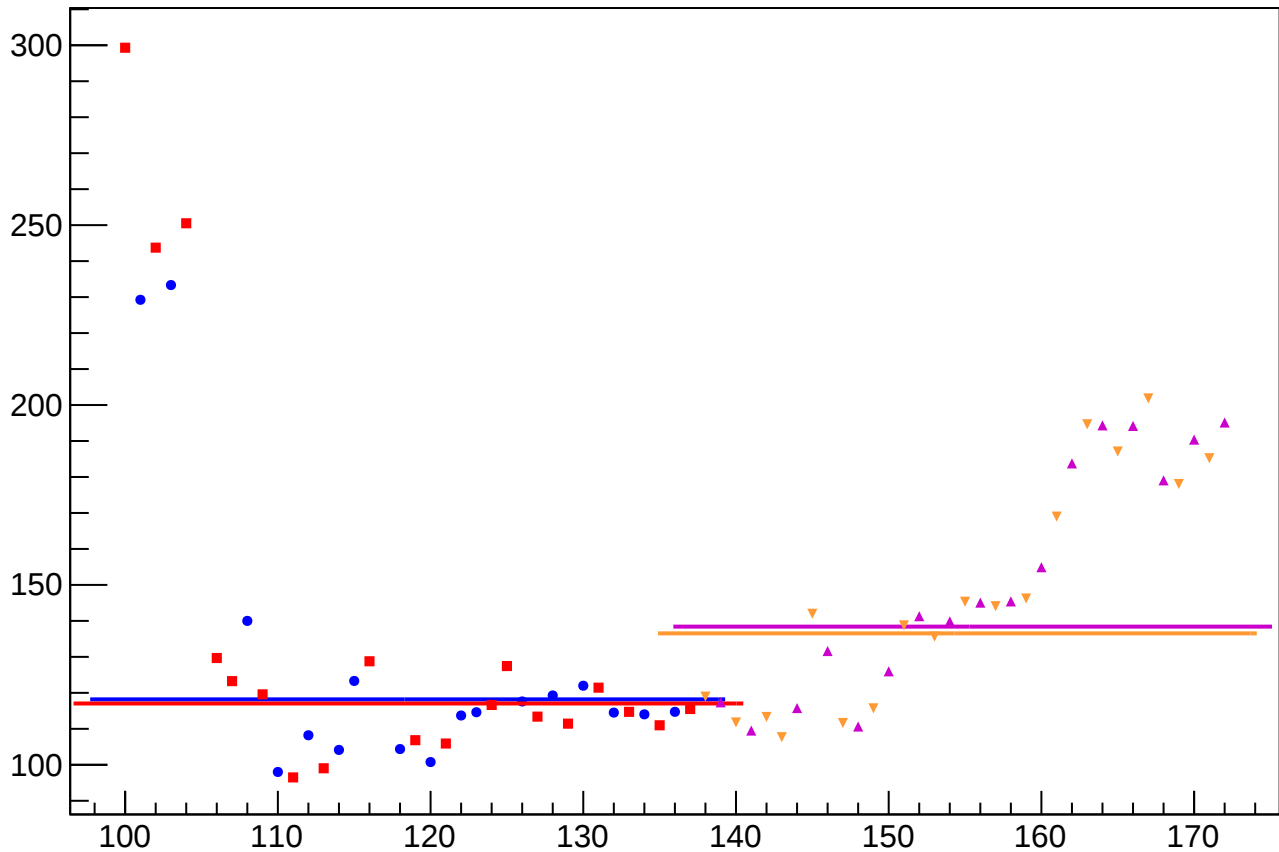
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -5091.337+/-30.429 χ^2/NDF : 39081.5/33

Out: -4503.138+/-29.538 χ^2/NDF : 51684.4/36

All: -4788.496+/-21.194 χ^2/NDF : 90958.3/70

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2/NDF : 636252.0/16

Left Out: 136.532 $\pm$ 0.027 χ^2/NDF :1007774.7/17

Right Out: 117.046 $\pm$ 0.033 χ^2/NDF : 690635.5/18

Left In: 138.409 $\pm$ 0.028 χ^2/NDF :966244.5/16

Left: 137.449 $\pm$ 0.019 χ^2/NDF : 1976365.2/34

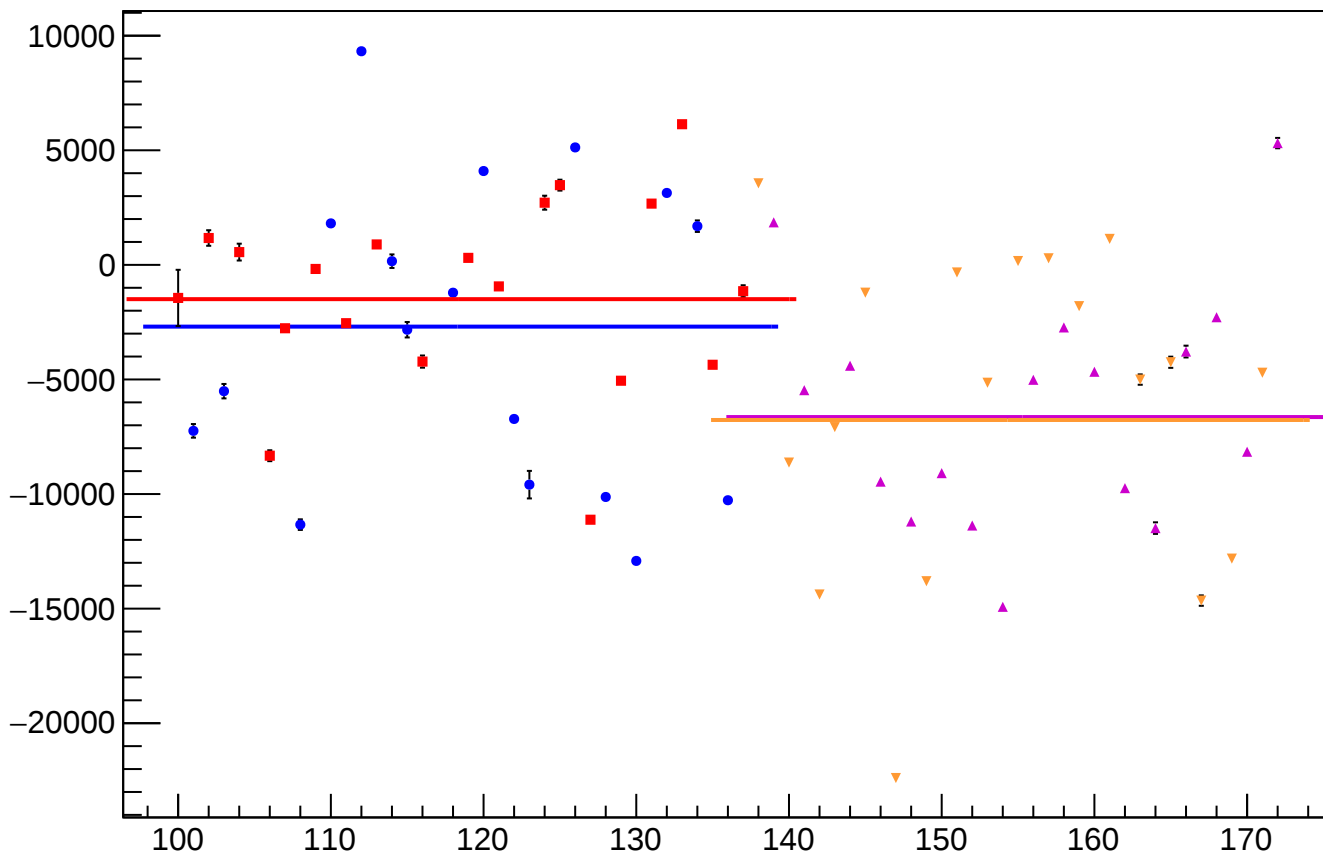
Right: 117.594 $\pm$ 0.024 χ^2/NDF : 1327469.8/35

In: 130.378 $\pm$ 0.022 χ^2/NDF :1813951.6/33

Out: 128.633 $\pm$ 0.021 χ^2/NDF :1908226.5/36

All: 129.480 $\pm$ 0.015 χ^2/NDF : 3725563.5/70

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -6768.249+/-37.397 χ^2/NDF : 39598.4/17

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -6640.344+/-38.178 χ^2/NDF : 15111.8/16

Left: -6705.618+/-26.715 χ^2/NDF : 54715.9/34

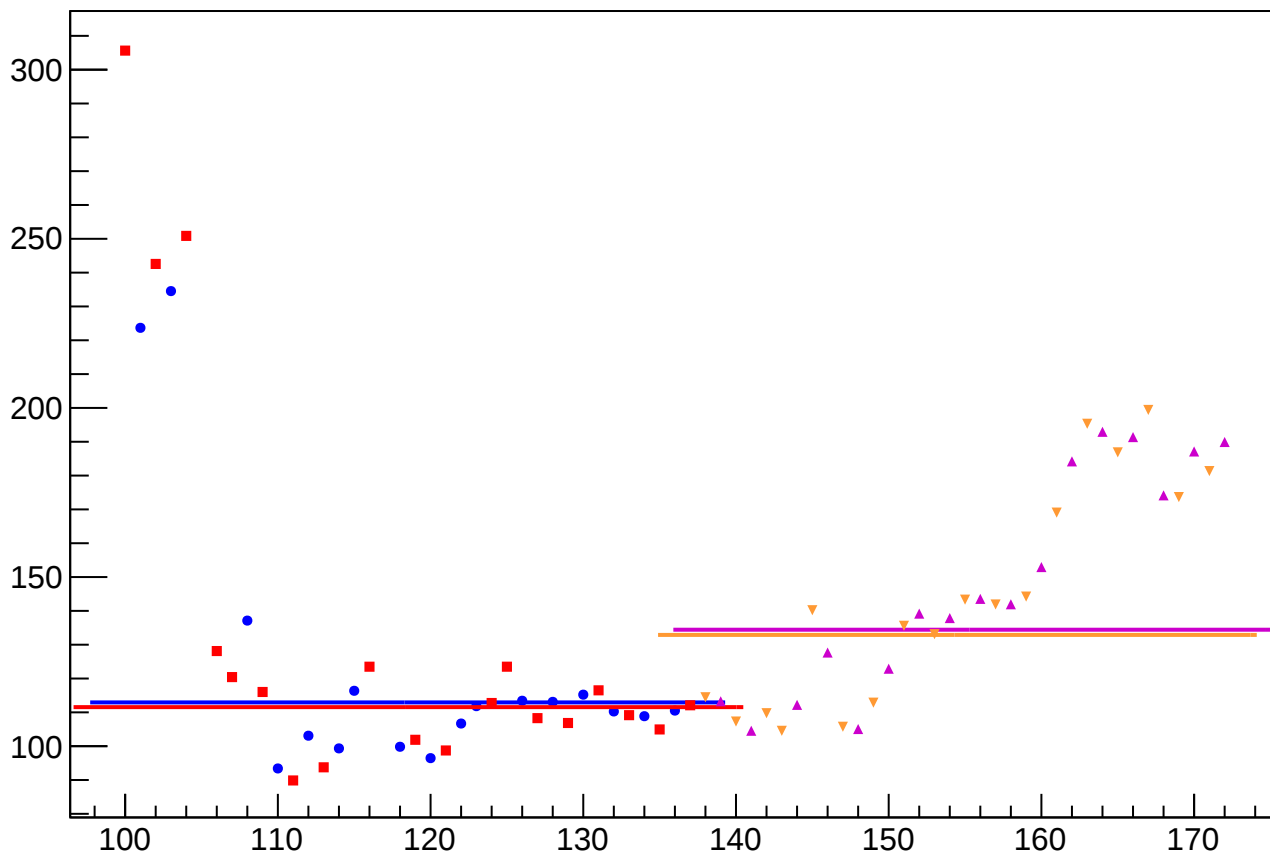
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -5045.156+/-29.468 χ^2/NDF : 42290.8/33

Out: -4582.706+/-28.615 χ^2/NDF : 56555.2/36

All: -4807.142+/-20.529 χ^2/NDF : 98972.7/70

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940+/-0.033 χ^2/NDF : 680283.1/16

Left Out: 132.893+/-0.026 χ^2/NDF : 1120318.1/17

Right Out: 111.544+/-0.031 χ^2/NDF : 765502.6/18

Left In: 134.431+/-0.027 χ^2/NDF : 1068225.3/16

Left: 133.646+/-0.019 χ^2/NDF : 2190199.8/34

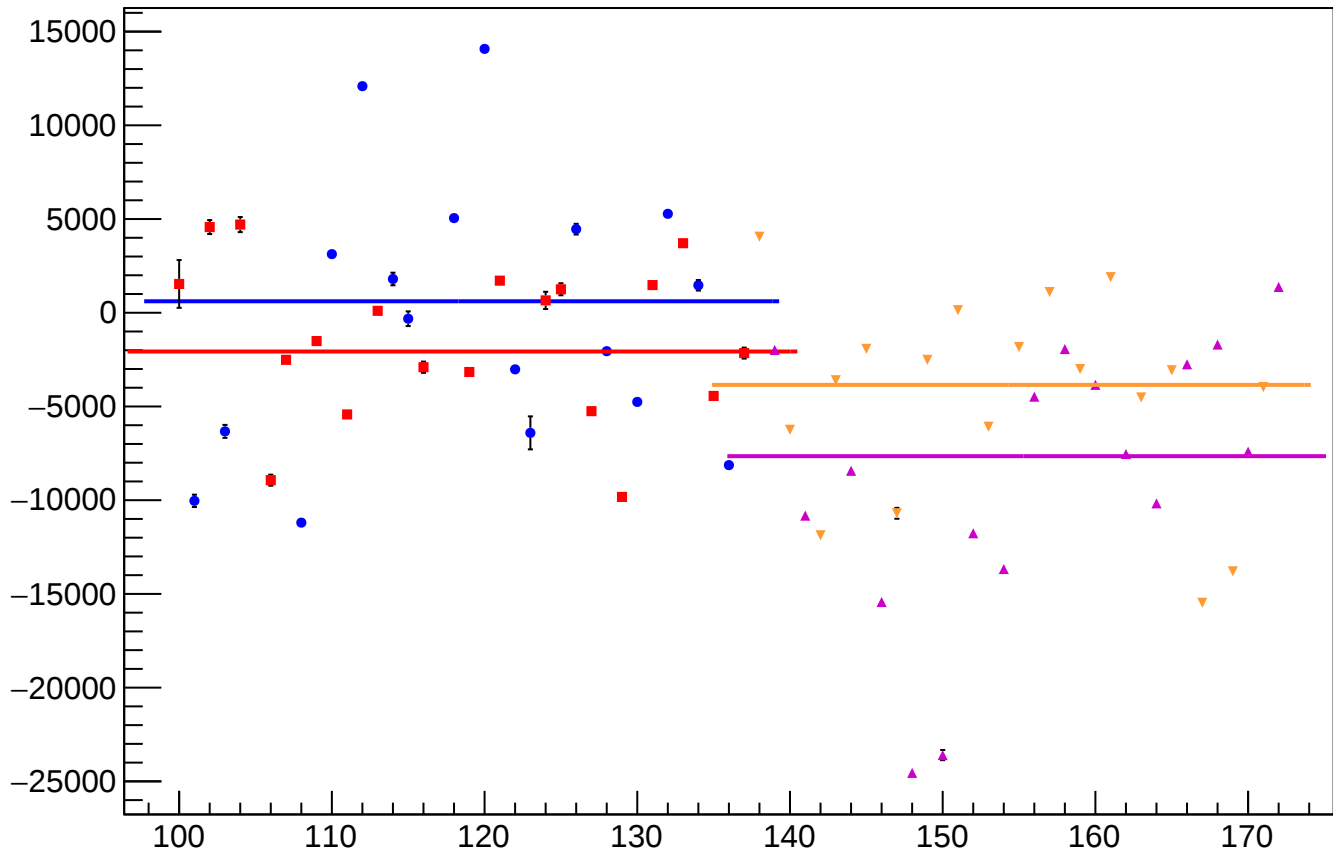
Right: 112.213+/-0.023 χ^2/NDF : 1446732.2/35

In: 125.744+/-0.021 χ^2/NDF : 2004693.2/33

Out: 124.043+/-0.020 χ^2/NDF : 2156020.3/36

All: 124.869+/-0.015 χ^2/NDF : 4164140.3/70

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621+/-56.062 χ^2/NDF : 18243.4/16

Left Out: -3847.231+/-43.708 χ^2/NDF :13560.2/17

Right Out: -2067.410+/-53.931 χ^2/NDF : 4642.7/18

Left In: -7651.277+/-45.397 χ^2/NDF :18004.5/16

Left: -5677.145+/-31.486 χ^2/NDF : 35208.6/34

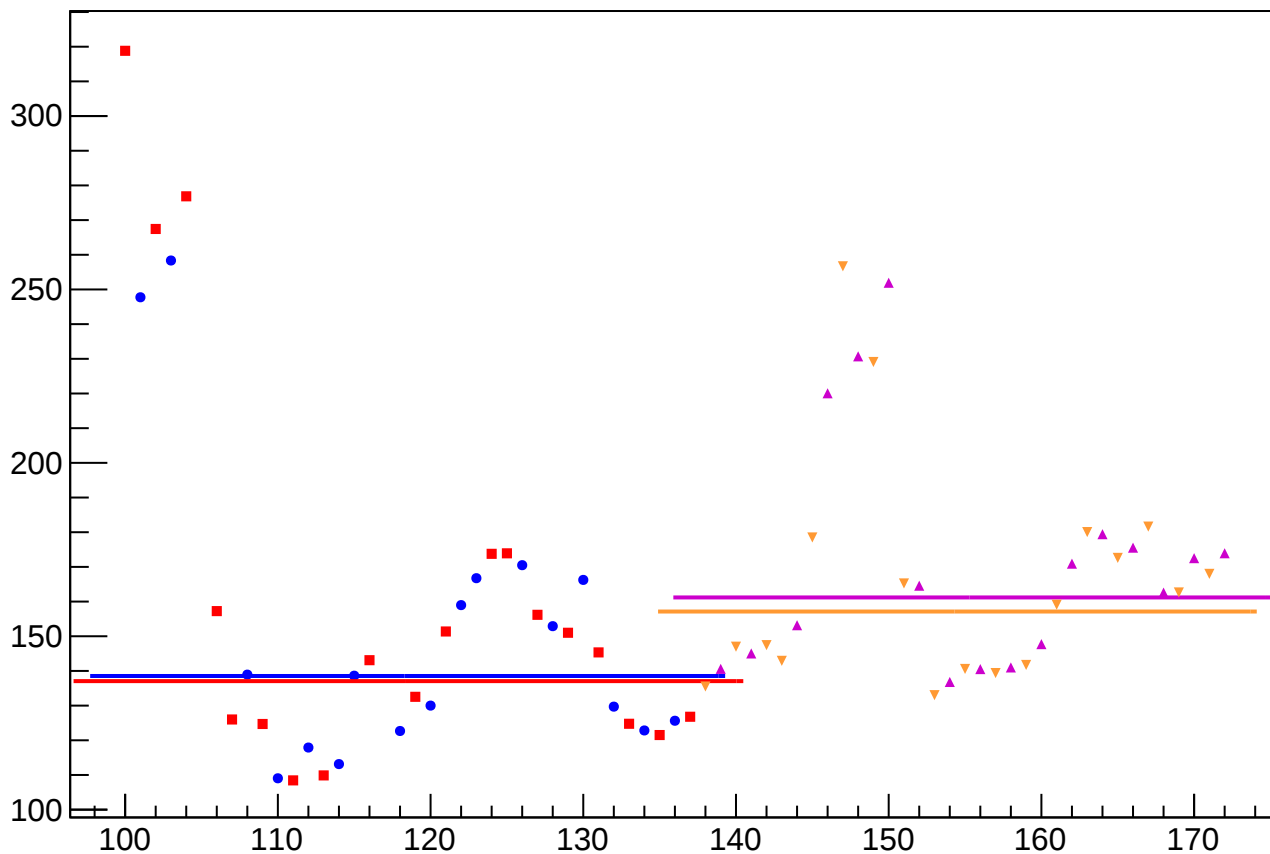
Right: -779.298+/-38.866 χ^2/NDF : 24073.0/35

In: -4378.464+/-35.280 χ^2/NDF :49371.3/33

Out: -3141.654+/-33.956 χ^2/NDF :18860.3/36

All: -3736.413+/-24.465 χ^2/NDF : 68869.6/70

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 157.131 $\pm$ 0.031 χ^2 /NDF: 665803.4/17

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 161.191 $\pm$ 0.032 χ^2 /NDF: 705847.2/16

Left: 159.084 $\pm$ 0.022 χ^2 /NDF: 1379952.2/34

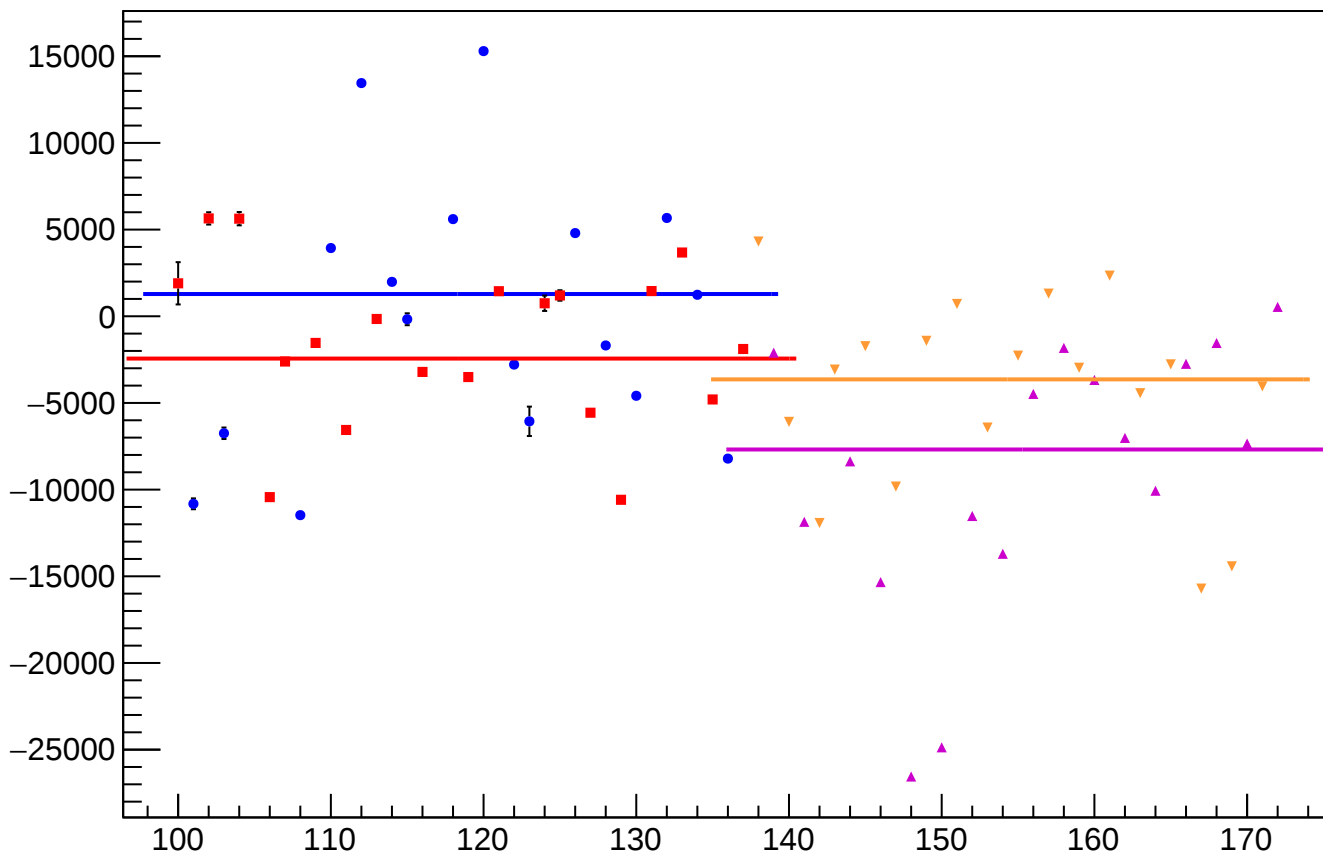
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 152.221 $\pm$ 0.025 χ^2 /NDF: 1571945.4/33

Out: 149.174 $\pm$ 0.024 χ^2 /NDF: 1588474.4/36

All: 150.639 $\pm$ 0.017 χ^2 /NDF: 3168161.6/70

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -3640.773+/-39.131 χ^2/NDF : 17849.5/17

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -7685.138+/-40.823 χ^2/NDF : 22977.8/16

Left: -5577.392+/-28.249 χ^2/NDF : 45942.5/34

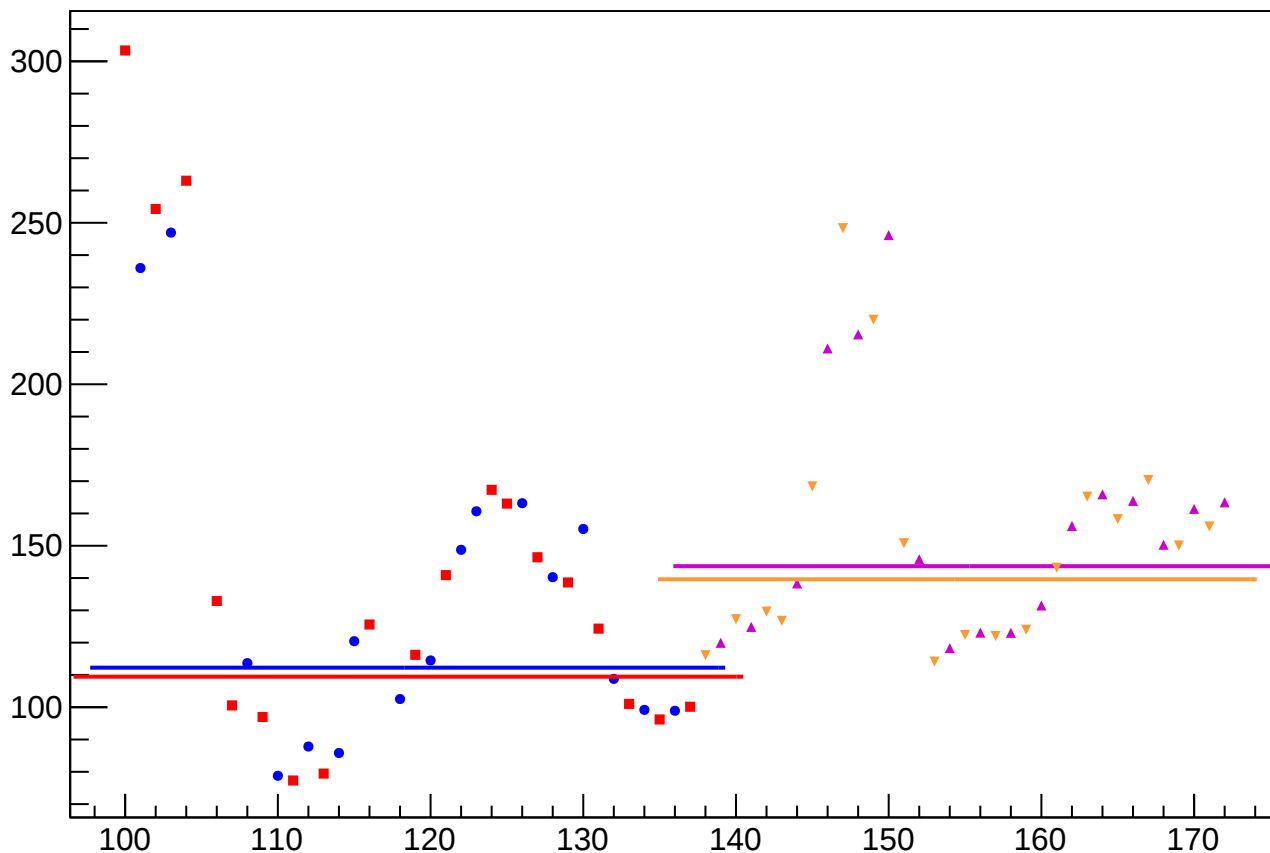
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3788.497+/-30.699 χ^2/NDF : 74487.8/33

Out: -3114.426+/-29.324 χ^2/NDF : 25939.7/36

All: -3436.026+/-21.204 χ^2/NDF : 100679.6/77

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 139.616+/-0.028 χ^2/NDF : 949422.2/17

Right Out: 109.460+/-0.031 χ^2/NDF : 1269633.4/18

Left In: 143.676+/-0.029 χ^2/NDF : 992176.3/16

Left: 141.560+/-0.020 χ^2/NDF : 1951907.1/34

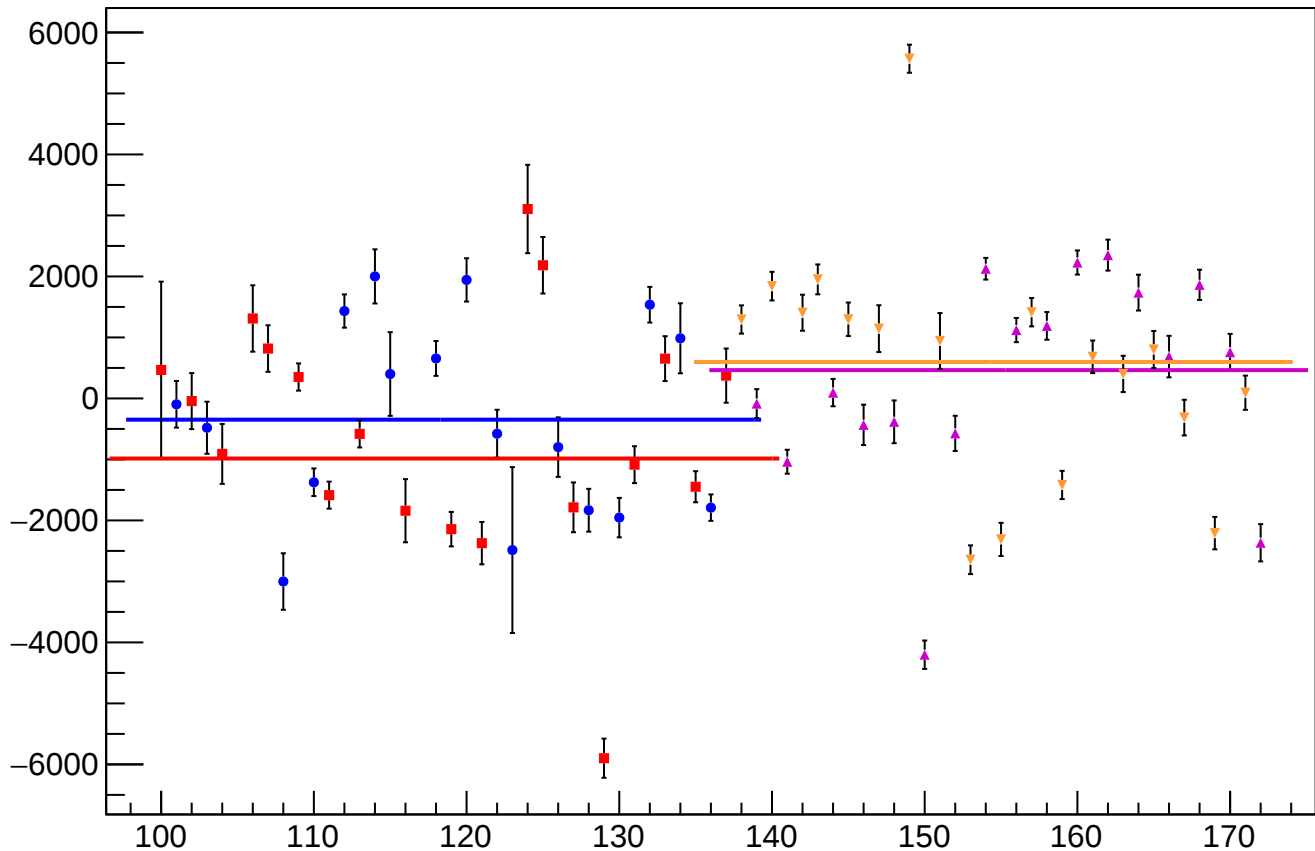
Right: 110.785+/-0.023 χ^2/NDF : 2398941.6/35

In: 130.022+/-0.022 χ^2/NDF : 2632676.2/33

Out: 126.395+/-0.021 χ^2/NDF : 2739835.0/36

All: 128.125+/-0.015 χ^2/NDF : 5387109.1/70

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 $\pm$ 83.826 χ^2/NDF : 317.3/16

Left Out: 597.053 $\pm$ 62.986 χ^2/NDF :1067.6/17

Right Out: -985.242 $\pm$ 77.683 χ^2/NDF : 476.6/18

Left In: 463.993 $\pm$ 59.011 χ^2/NDF :875.7/16

Left: 526.192 $\pm$ 43.064 χ^2/NDF : 1945.8/34

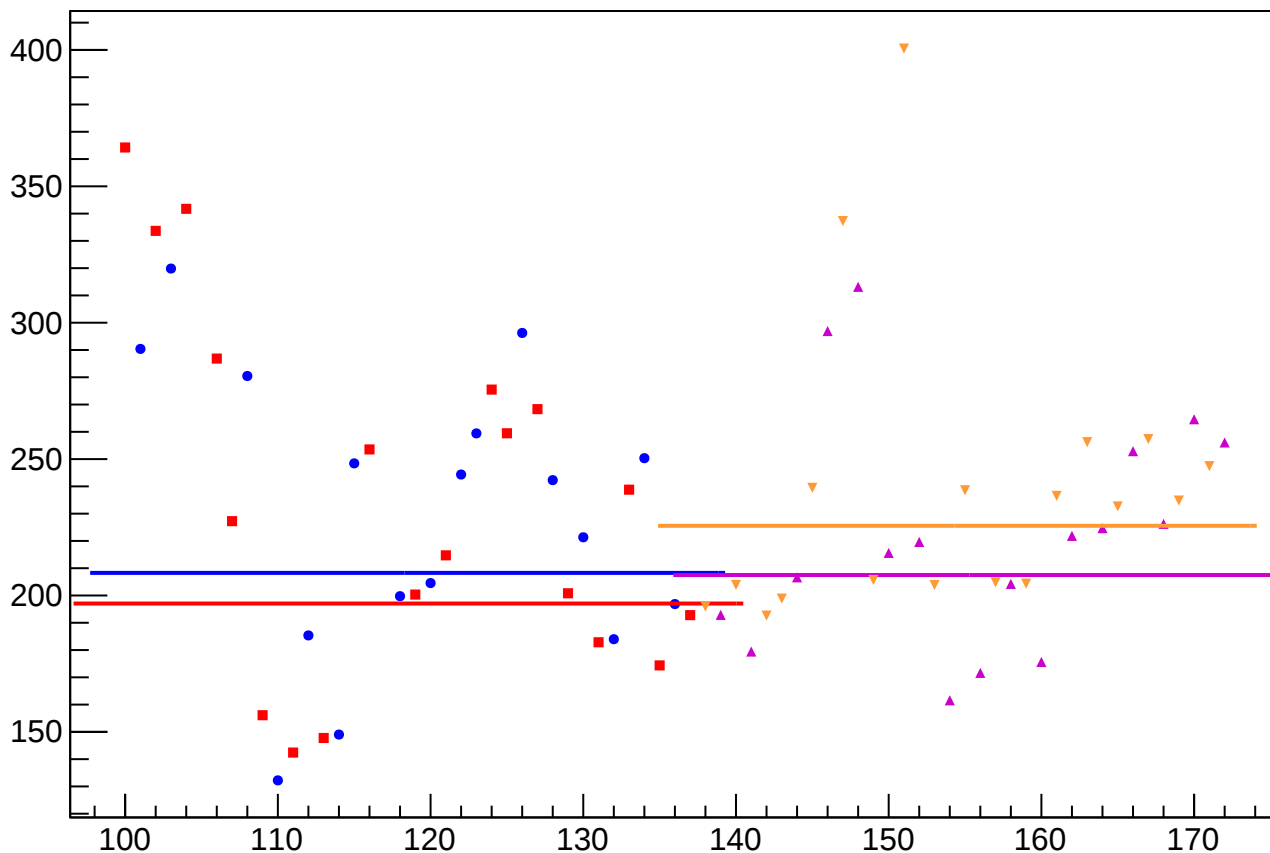
Right: -690.850 $\pm$ 56.978 χ^2/NDF : 824.9/35

In: 194.913 $\pm$ 48.254 χ^2/NDF :1255.8/33

Out: -30.562 $\pm$ 48.925 χ^2/NDF :1794.5/36

All: 83.733 $\pm$ 34.355 χ^2/NDF : 3061.1/70

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288 ± 0.059 $\chi^2/\text{NDF}: 698491.0/16$

Left Out: 225.552 ± 0.045 $\chi^2/\text{NDF}: 699235.3/17$

Right Out: 197.051 ± 0.055 $\chi^2/\text{NDF}: 926786.6/18$

Left In: 207.499 ± 0.042 $\chi^2/\text{NDF}: 816583.1/16$

Left: 215.938 ± 0.030 $\chi^2/\text{NDF}: 1603316.8/34$

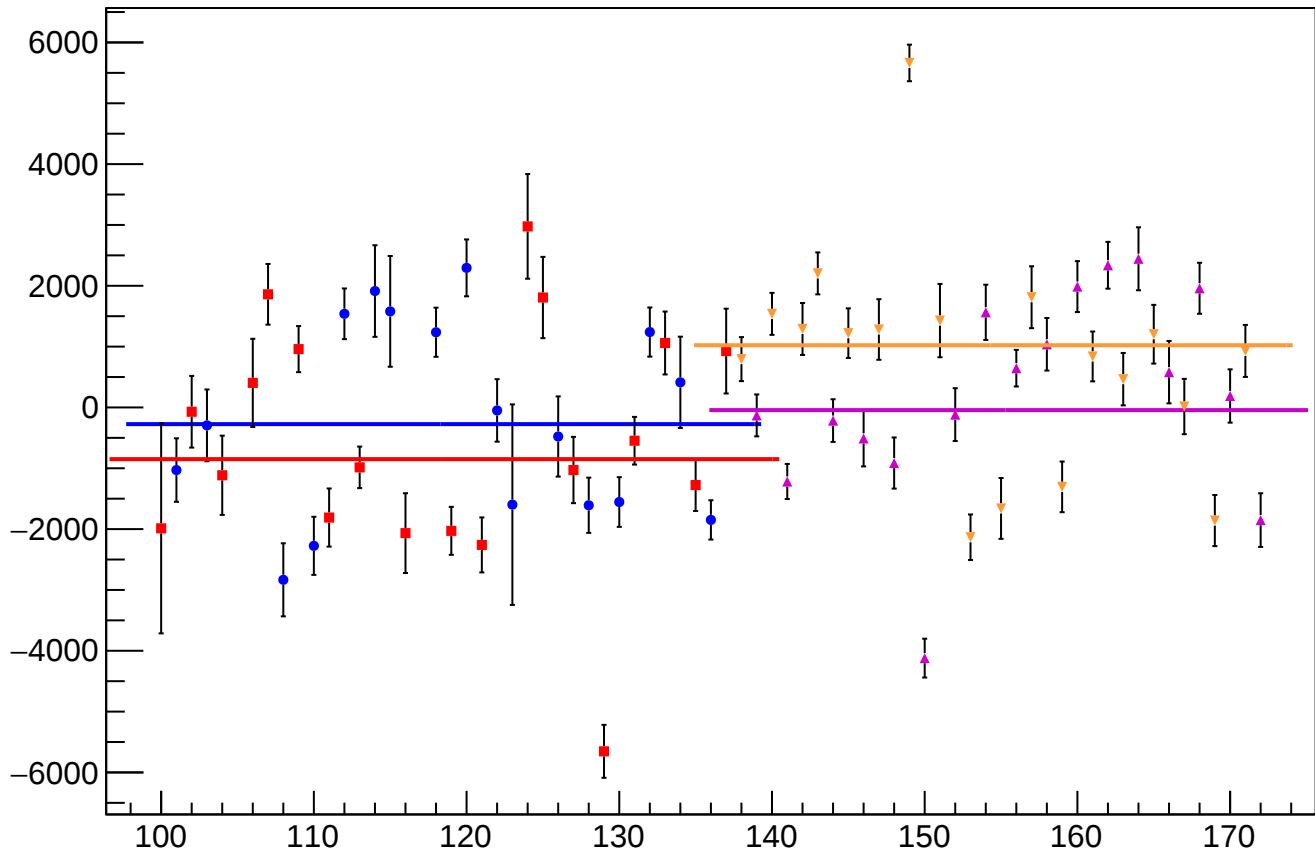
Right: 202.243 ± 0.040 $\chi^2/\text{NDF}: 1644610.3/35$

In: 207.761 ± 0.034 $\chi^2/\text{NDF}: 1515192.3/33$

Out: 214.247 ± 0.035 $\chi^2/\text{NDF}: 1788456.6/36$

All: 210.959 ± 0.024 $\chi^2/\text{NDF}: 3321471.4/70$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260±/121.326 χ^2/NDF : 171.6/16

Left Out: 1022.672±/97.045 χ^2/NDF : 442.0/17

Right Out: -849.413±/115.349 χ^2/NDF : 263.3/18

Left In: -43.733±/94.755 χ^2/NDF : 335.8/16

Left: 476.742±/67.797 χ^2/NDF : 839.6/34

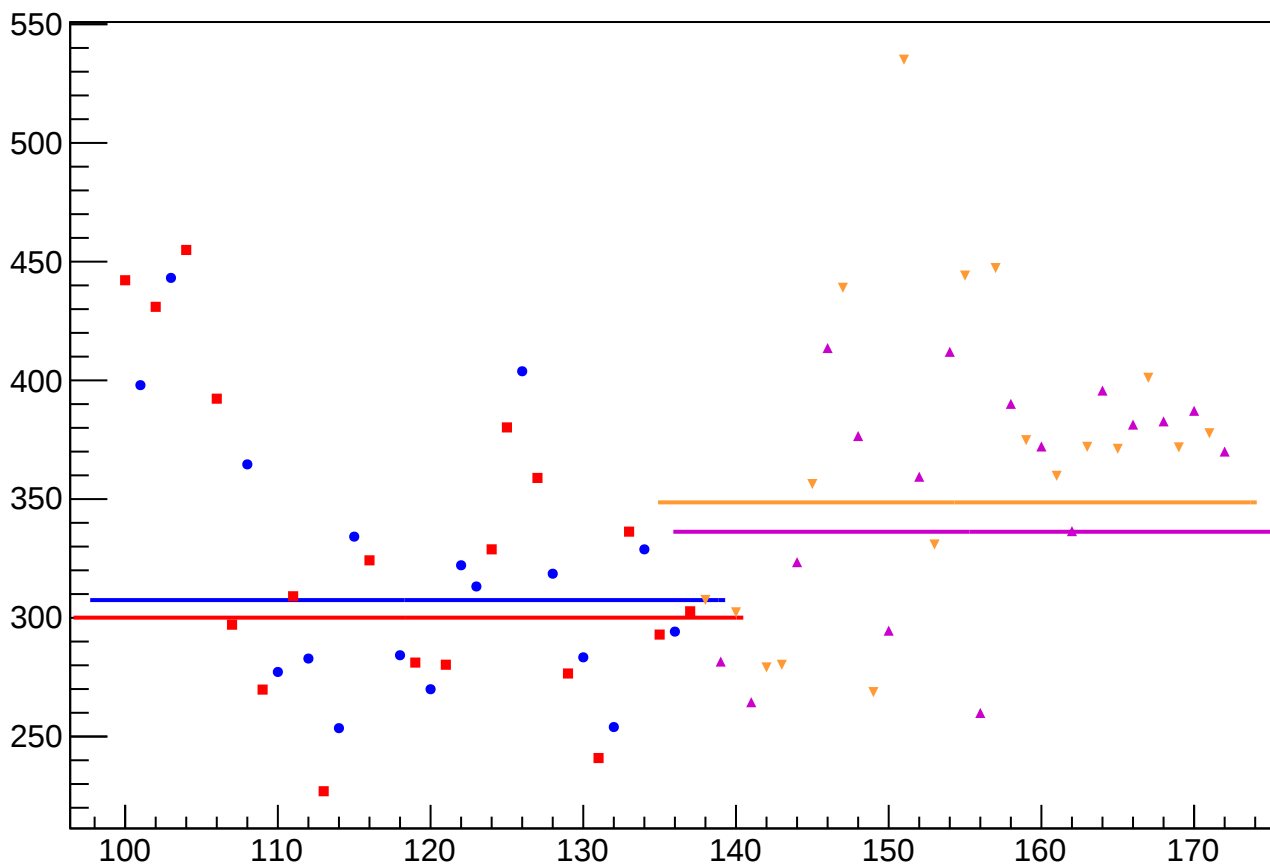
Right: -576.352±/83.597 χ^2/NDF : 446.6/35

In: -131.072±/74.679 χ^2/NDF : 509.7/33

Out: 246.775±/74.260 χ^2/NDF : 859.4/36

All: 58.915±/52.657 χ^2/NDF : 1382.0/70

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468+/-0.086 χ^2/NDF : 323096.7/16

Left Out: 348.618+/-0.069 χ^2/NDF : 807417.2/17

Right Out: 300.069+/-0.082 χ^2/NDF : 490398.9/18

Left In: 336.235+/-0.067 χ^2/NDF : 627126.6/16

Left: 342.279+/-0.048 χ^2/NDF : 1451212.7/34

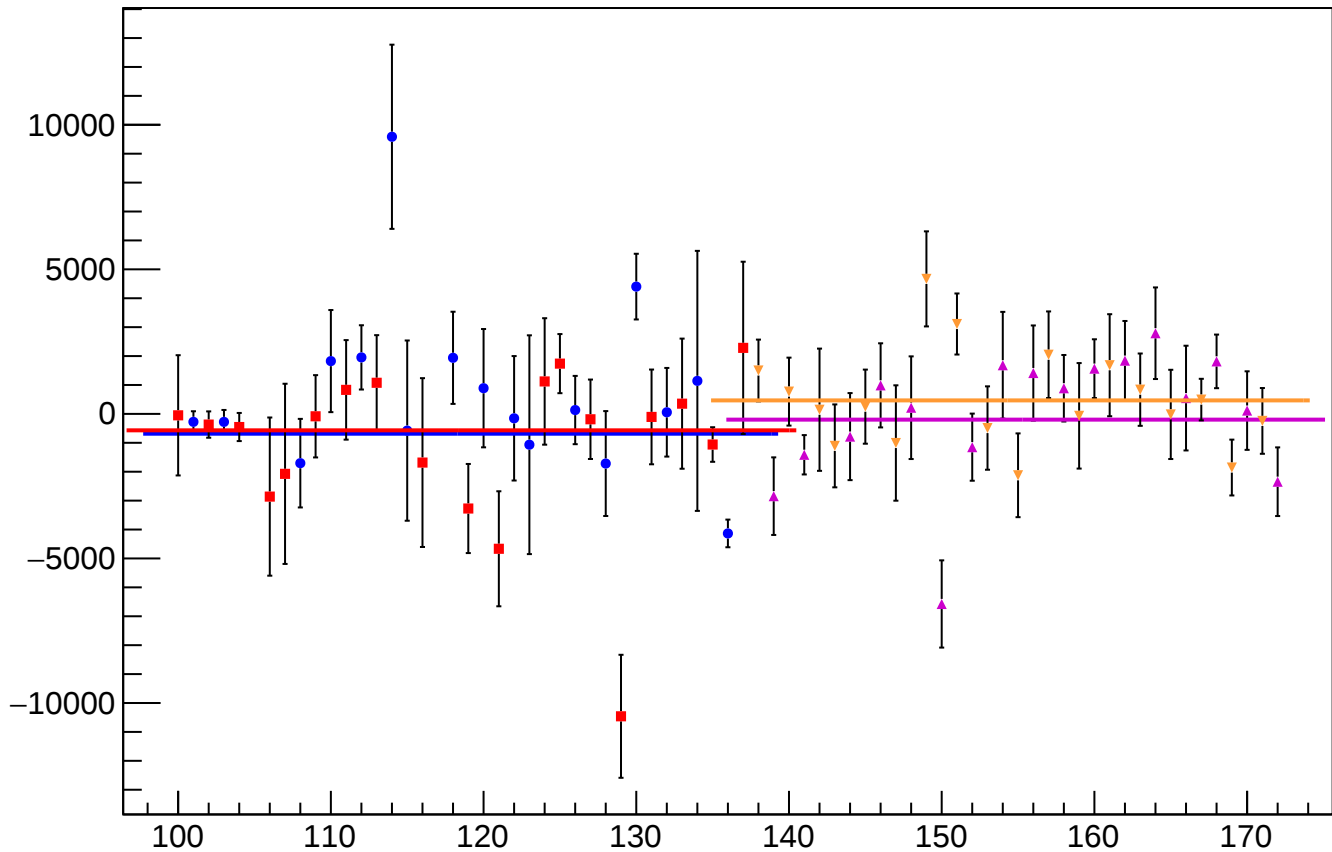
Right: 303.582+/-0.059 χ^2/NDF : 817401.9/35

In: 325.336+/-0.053 χ^2/NDF : 1020064.4/33

Out: 328.497+/-0.053 χ^2/NDF : 1505264.5/36

All: 326.925+/-0.037 χ^2/NDF : 2527129.7/70

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2/NDF : 97.4/16

Left Out: 466.722 $\pm$ 297.481 χ^2/NDF :27.3/17

Right Out: -568.651 $\pm$ 243.251 χ^2/NDF : 39.7/18

Left In: -198.725 $\pm$ 299.307 χ^2/NDF :46.4/16

Left: 136.035 $\pm$ 210.993 χ^2/NDF : 76.1/34

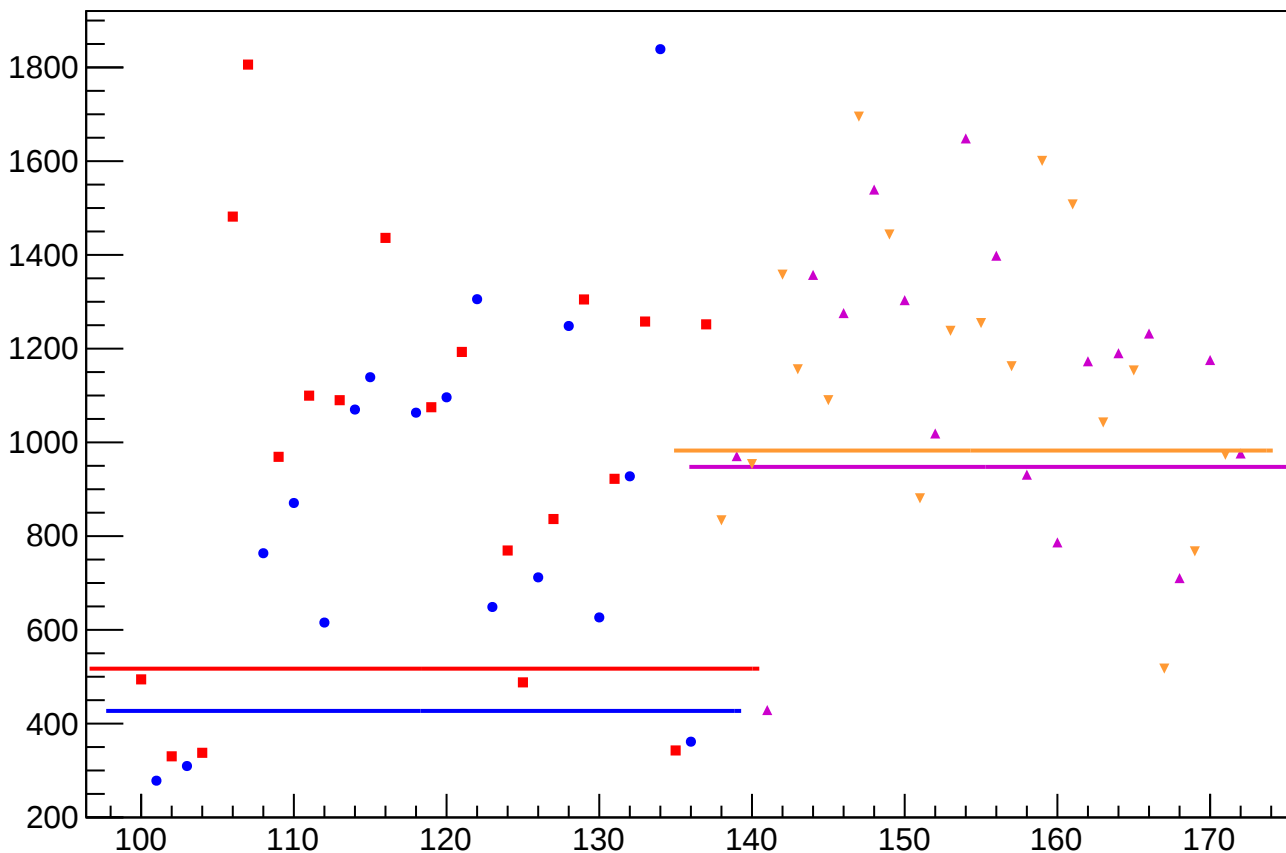
Right: -635.255 $\pm$ 159.106 χ^2/NDF : 137.2/35

In: -524.276 $\pm$ 172.094 χ^2/NDF :145.5/33

Out: -153.767 $\pm$ 188.310 χ^2/NDF :74.2/36

All: -355.658 $\pm$ 127.036 χ^2/NDF : 221.9/70

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 982.591+/-0.210 χ^2/NDF : 2111337.9/17

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 947.718+/-0.212 χ^2/NDF : 2581079.6/16

Left: 965.261+/-0.149 χ^2/NDF : 4706076.0/34

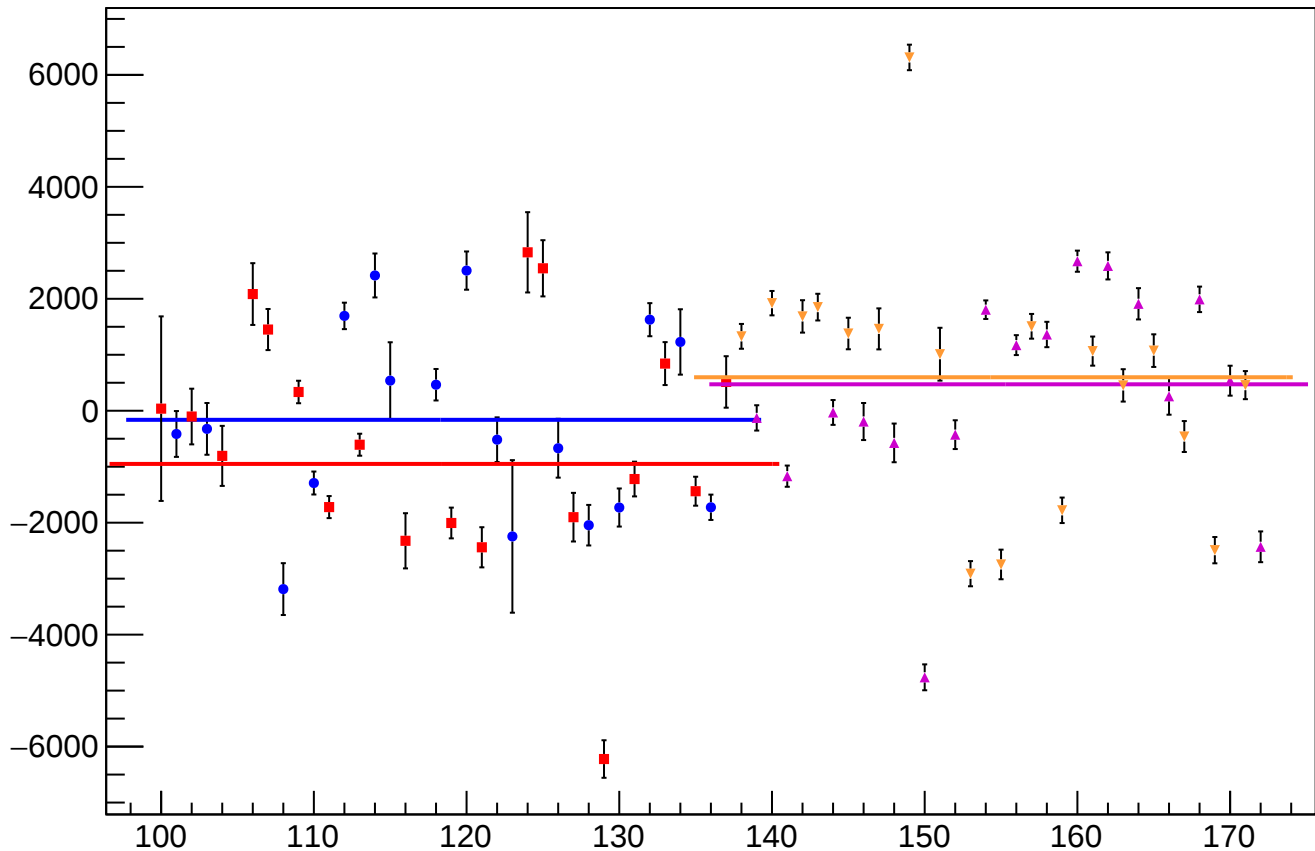
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 599.201+/-0.122 χ^2/NDF : 9497695.3/33

Out: 703.707+/-0.133 χ^2/NDF : 8649510.7/36

All: 646.762+/-0.090 χ^2/NDF : 18482853.7/70

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333±/82.350 χ^2/NDF : 387.6/16

Left Out: 598.282±/60.398 χ^2/NDF :1455.1/17

Right Out: -950.093±/75.133 χ^2/NDF : 539.8/18

Left In: 472.336±/55.894 χ^2/NDF :1114.9/16

Left: 530.439±/41.023 χ^2/NDF : 2572.3/34

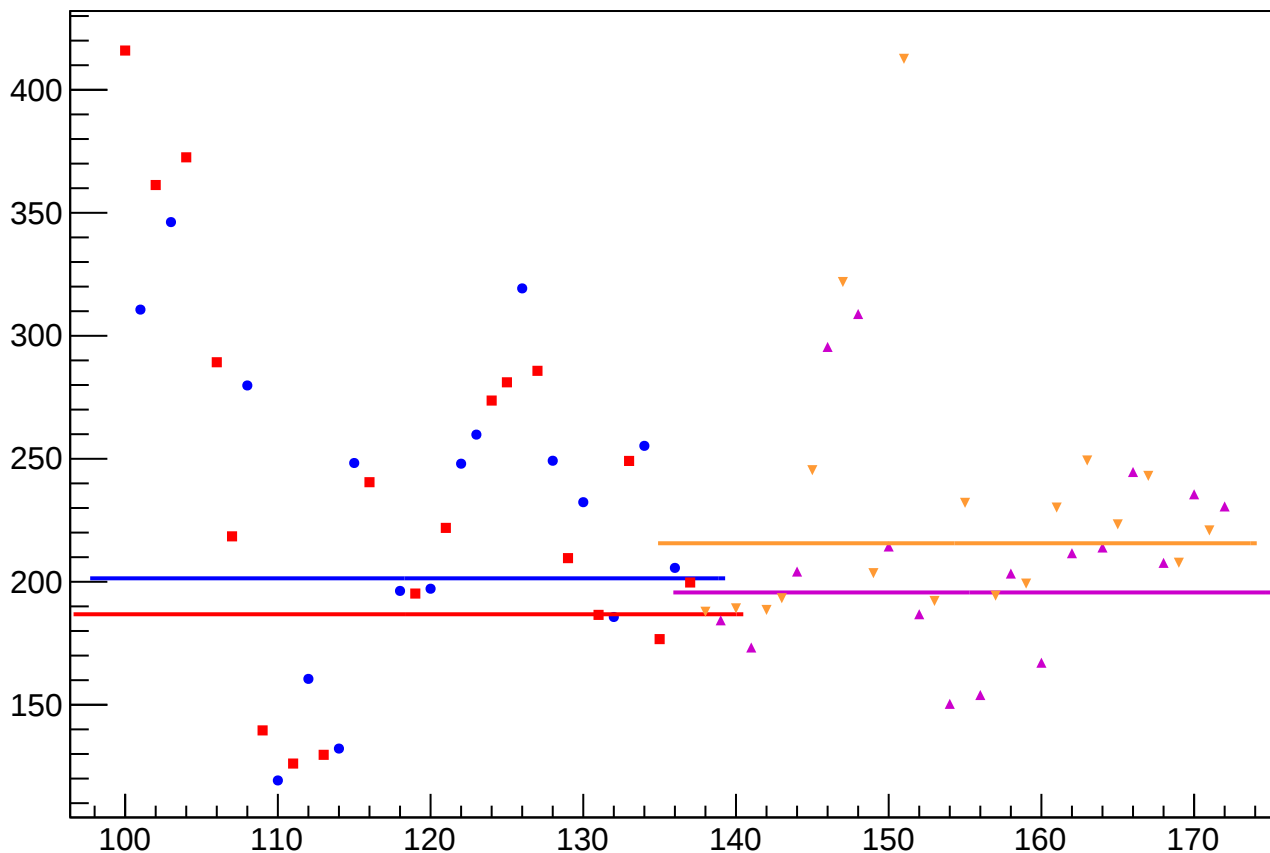
Right: -592.238±/55.504 χ^2/NDF : 977.3/35

In: 272.168±/46.247 χ^2/NDF :1543.1/33

Out: -9.528±/47.074 χ^2/NDF :2252.8/36

All: 133.814±/32.990 χ^2/NDF : 3814.2/70

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 $\pm$ 0.058 χ^2 /NDF: 1056022.1/16

Left Out: 215.662 $\pm$ 0.043 χ^2 /NDF: 756305.7/17

Right Out: 186.797 $\pm$ 0.053 χ^2 /NDF: 1393162.0/18

Left In: 195.664 $\pm$ 0.040 χ^2 /NDF: 898723.8/16

Left: 204.890 $\pm$ 0.029 χ^2 /NDF: 1773135.4/34

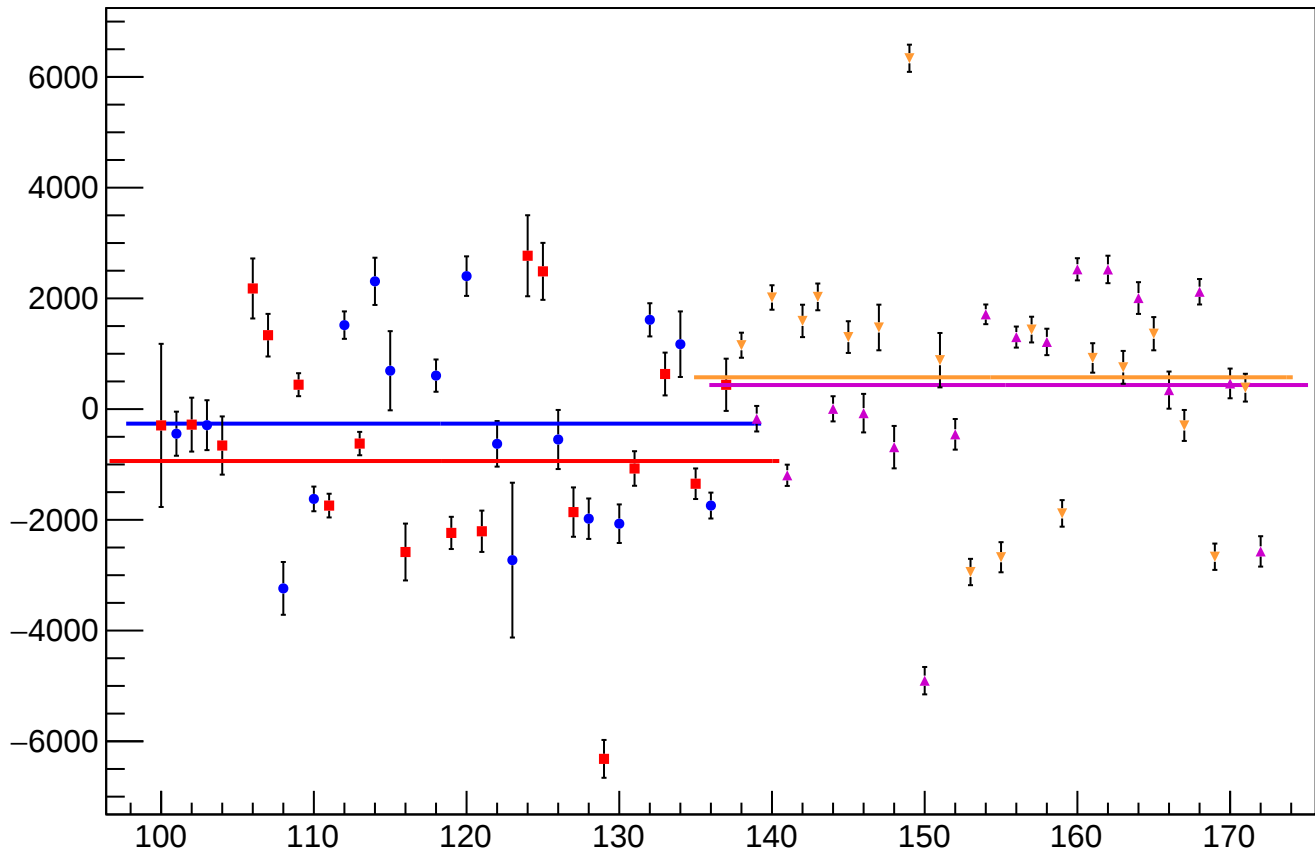
Right: 193.435 $\pm$ 0.039 χ^2 /NDF: 2483546.7/35

In: 197.476 $\pm$ 0.033 χ^2 /NDF: 1961409.7/33

Out: 204.331 $\pm$ 0.033 χ^2 /NDF: 2328779.6/36

All: 200.843 $\pm$ 0.023 χ^2 /NDF: 4311771.6/70

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324±/85.433 χ^2/NDF : 368.7/16

Left Out: 575.001±/62.306 χ^2/NDF :1344.4/17

Right Out: -937.678±/78.434 χ^2/NDF : 521.9/18

Left In: 435.051±/58.237 χ^2/NDF :1035.9/16

Left: 500.307±/42.546 χ^2/NDF : 2383.0/34

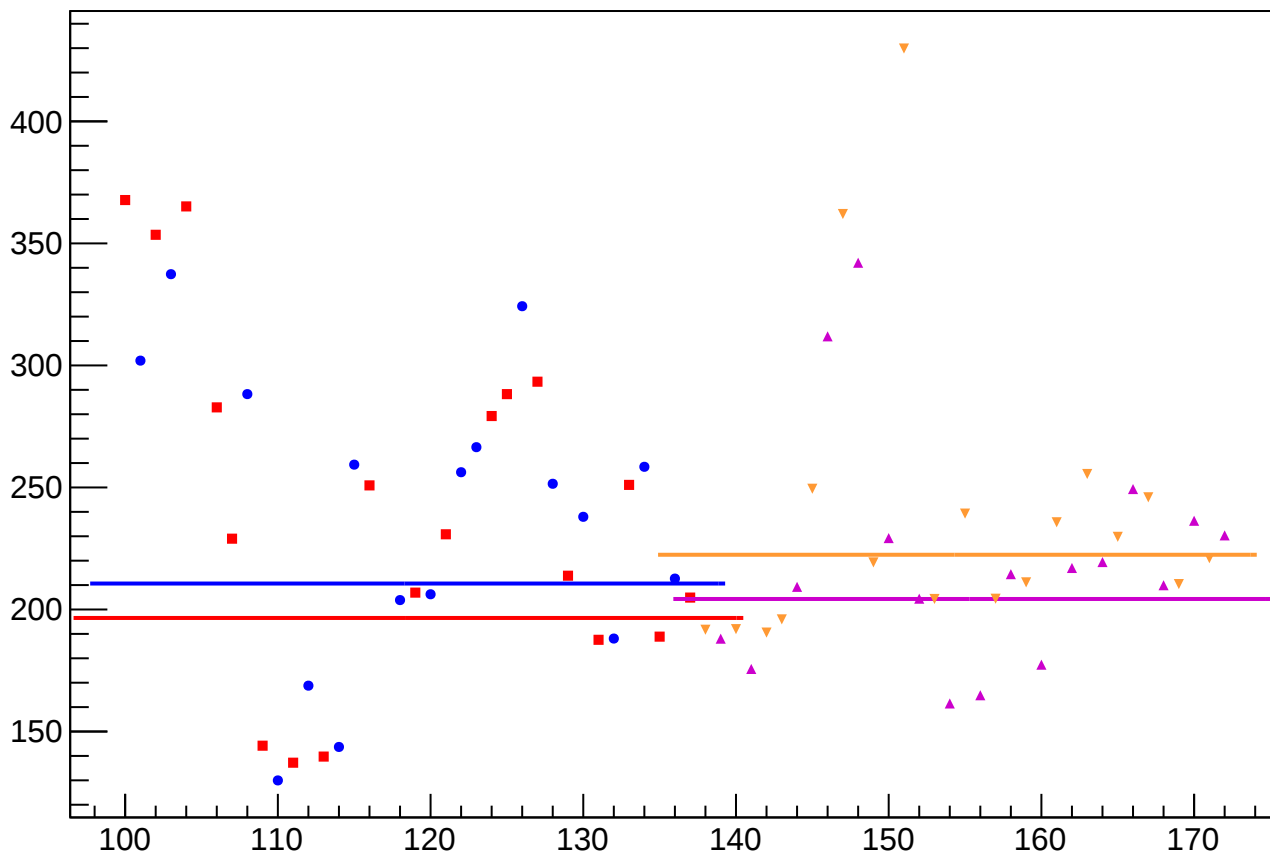
Right: -628.795±/57.777 χ^2/NDF : 924.5/35

In: 213.808±/48.120 χ^2/NDF :1450.1/33

Out: -10.245±/48.787 χ^2/NDF :2094.4/36

All: 103.322±/34.259 χ^2/NDF : 3555.2/70

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 222.426+/-0.044 χ^2/NDF :812875.6/17

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 204.306+/-0.041 χ^2/NDF :862069.3/16

Left: 212.755+/-0.030 χ^2/NDF : 1765227.3/34

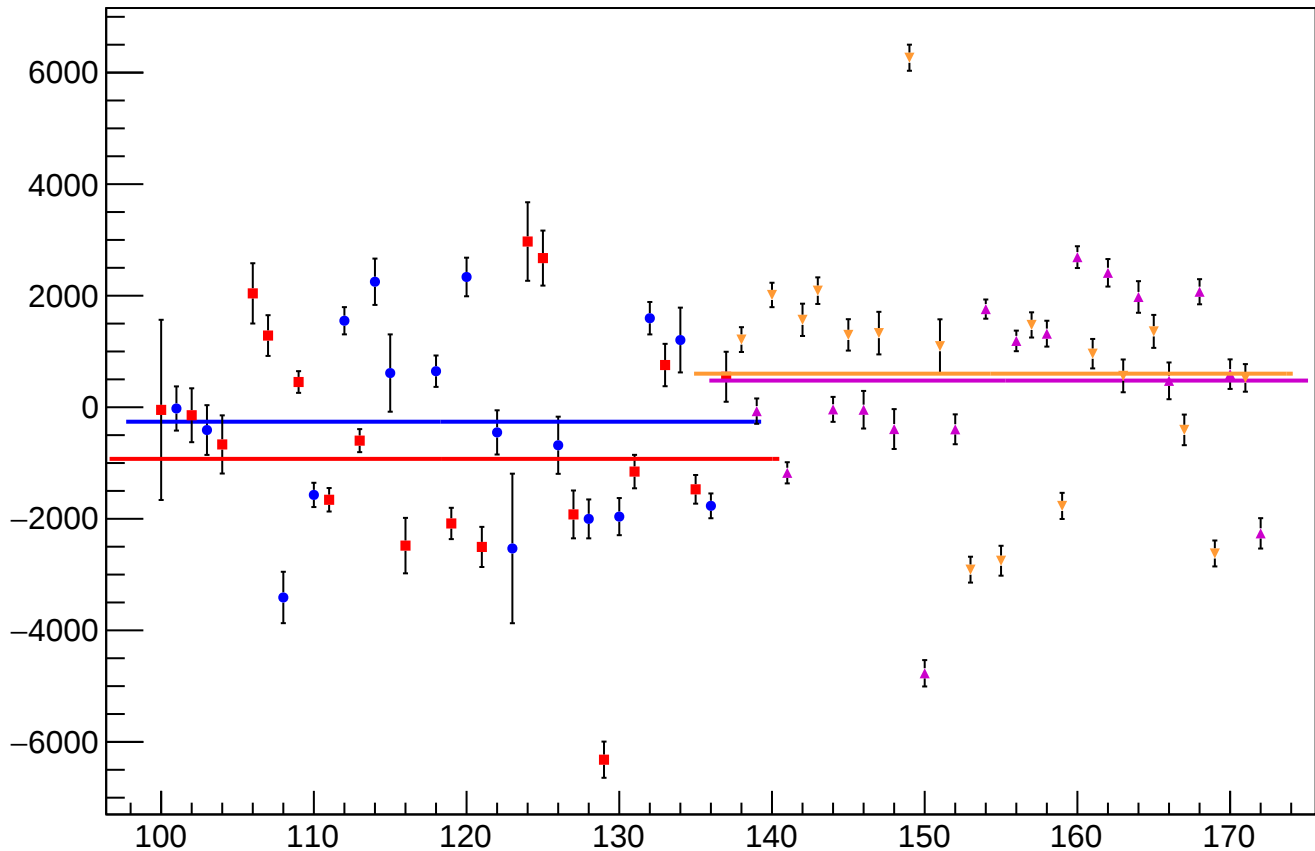
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 206.314+/-0.034 χ^2/NDF :1745342.5/33

Out: 212.406+/-0.034 χ^2/NDF :2151648.9/36

All: 209.318+/-0.024 χ^2/NDF : 3912799.8/70

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139+/-82.802 χ^2/NDF : 391.2/16

Left Out: 602.076+/-61.040 χ^2/NDF :1413.5/17

Right Out: -925.534+/-75.503 χ^2/NDF : 581.9/18

Left In: 478.304+/-56.889 χ^2/NDF :1051.2/16

Left: 535.839+/-41.617 χ^2/NDF : 2466.9/34

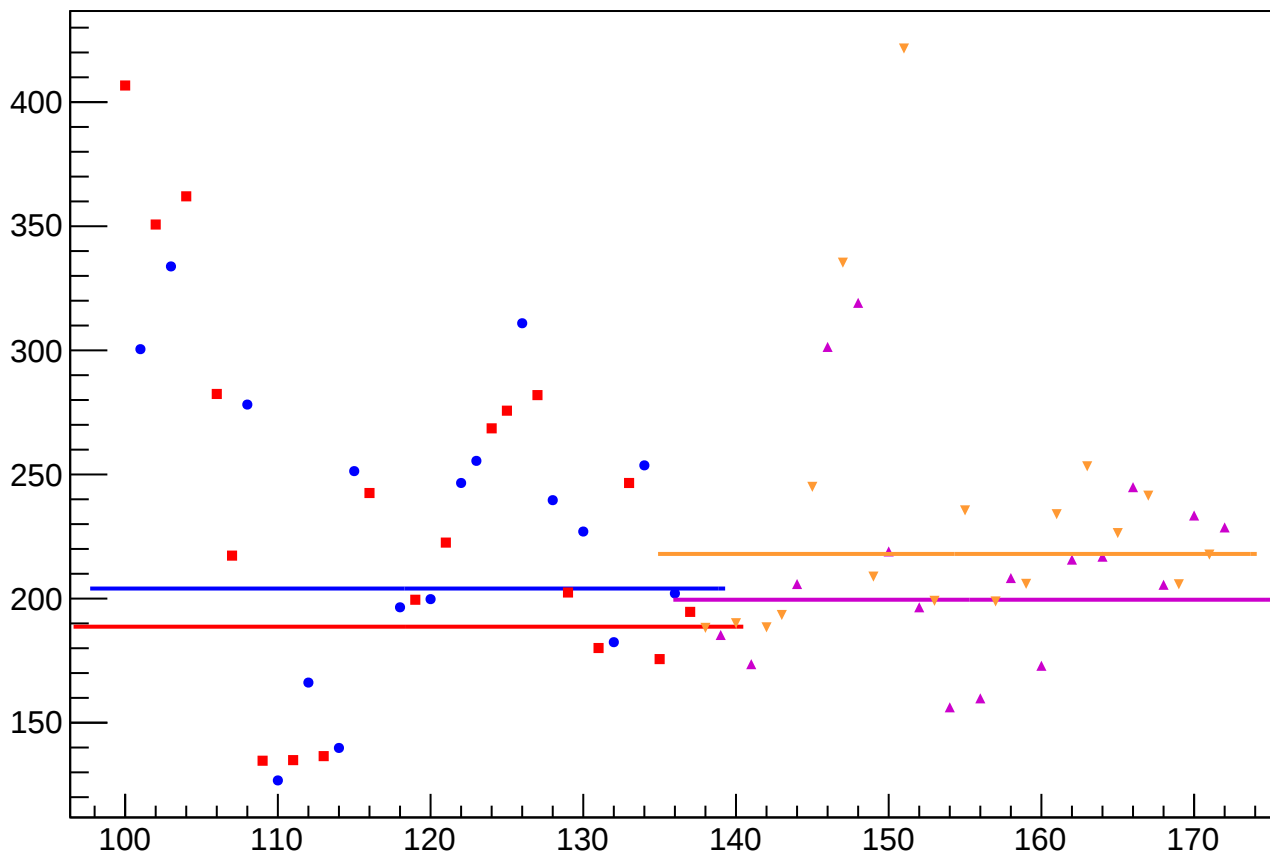
Right: -622.995+/-55.791 χ^2/NDF : 1008.5/35

In: 241.827+/-46.889 χ^2/NDF :1496.3/33

Out: -1.707+/-47.468 χ^2/NDF :2242.9/36

All: 121.555+/-33.358 χ^2/NDF : 3752.5/70

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051 ± 0.059 χ^2/NDF : 868423.0/16

Left Out: 217.991 ± 0.043 χ^2/NDF : 777213.5/17

Right Out: 188.681 ± 0.053 χ^2/NDF : 1251107.4/18

Left In: 199.540 ± 0.040 χ^2/NDF : 837867.4/16

Left: 208.117 ± 0.029 χ^2/NDF : 1712880.6/34

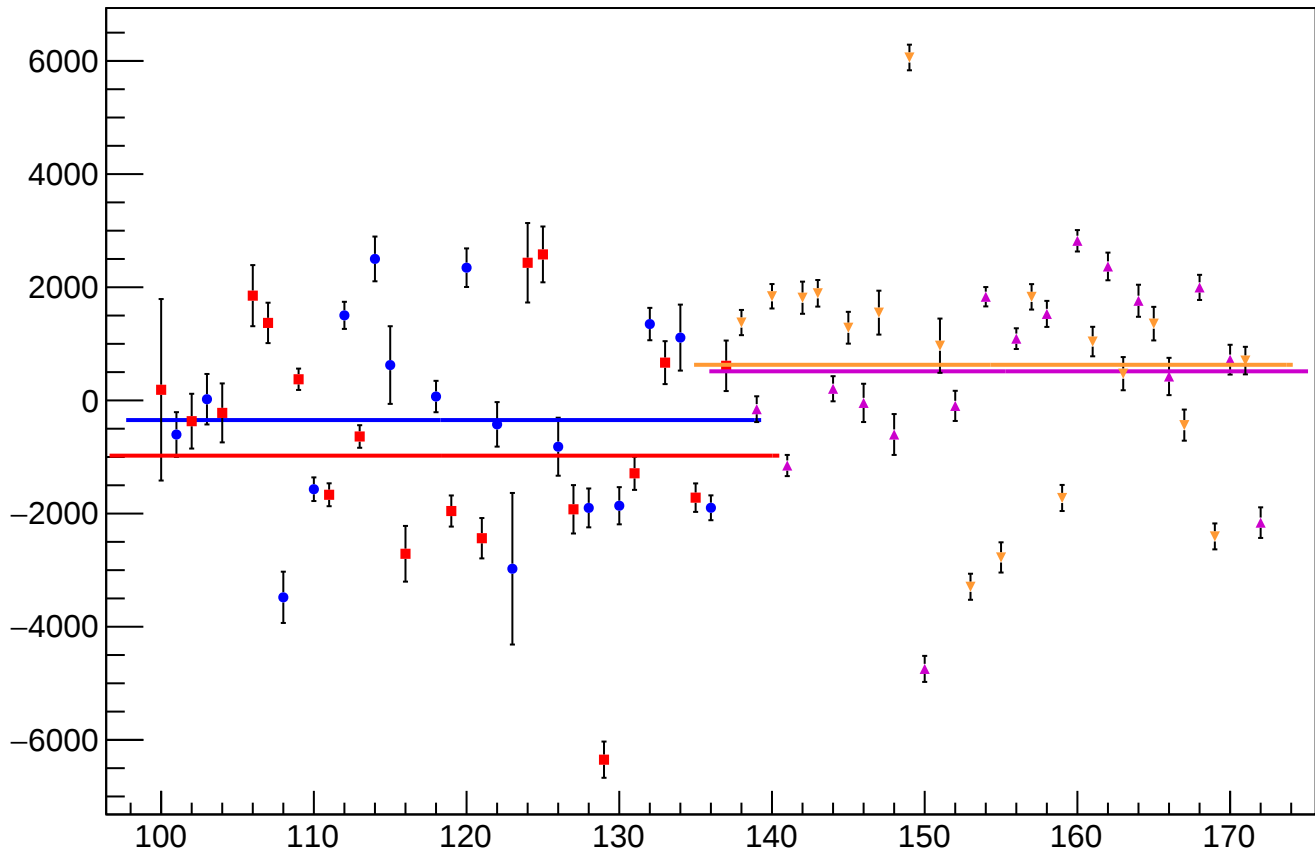
Right: 195.659 ± 0.039 χ^2/NDF : 2157160.3/35

In: 200.987 ± 0.033 χ^2/NDF : 1710323.4/33

Out: 206.406 ± 0.034 χ^2/NDF : 2210596.7/36

All: 203.663 ± 0.024 χ^2/NDF : 3934116.3/70

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 $\chi^2/\text{NDF}: 399.1/16$

Left Out: 629.668 ± 60.480 $\chi^2/\text{NDF}: 1459.5/17$

Right Out: -976.286 ± 73.889 $\chi^2/\text{NDF}: 585.7/18$

Left In: 514.240 ± 56.345 $\chi^2/\text{NDF}: 1086.7/16$

Left: 567.874 ± 41.226 $\chi^2/\text{NDF}: 2548.2/34$

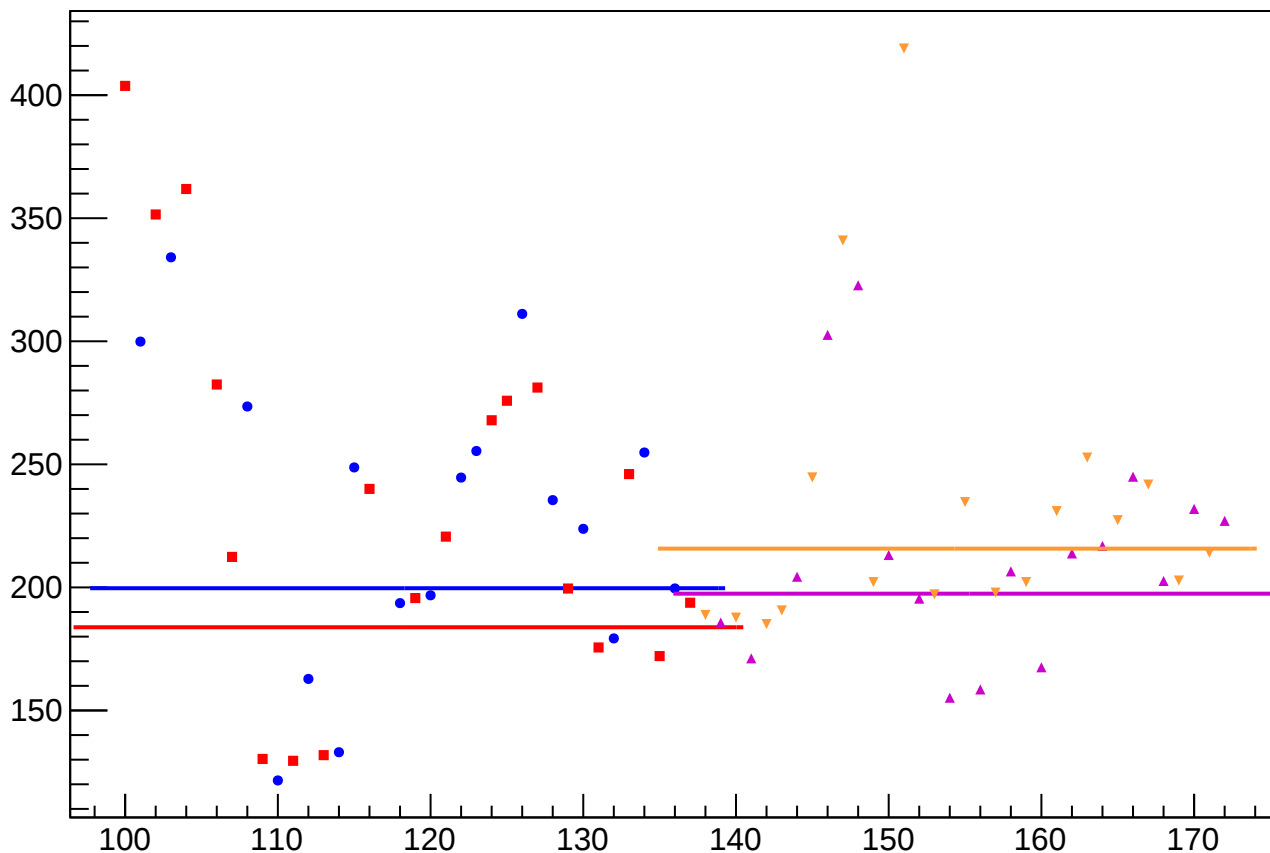
Right: -691.802 ± 54.685 $\chi^2/\text{NDF}: 1017.5/35$

In: 234.797 ± 46.314 $\chi^2/\text{NDF}: 1561.6/33$

Out: -14.631 ± 46.801 $\chi^2/\text{NDF}: 2328.1/36$

All: 111.389 ± 32.920 $\chi^2/\text{NDF}: 3904.0/70$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 ± 0.058 $\chi^2/\text{NDF}: 943155.1/16$

Left Out: 215.757 ± 0.043 $\chi^2/\text{NDF}: 813474.9/17$

Right Out: 183.808 ± 0.052 $\chi^2/\text{NDF}: 1349625.1/18$

Left In: 197.451 ± 0.040 $\chi^2/\text{NDF}: 874598.7/16$

Left: 205.957 ± 0.029 $\chi^2/\text{NDF}: 1786160.8/34$

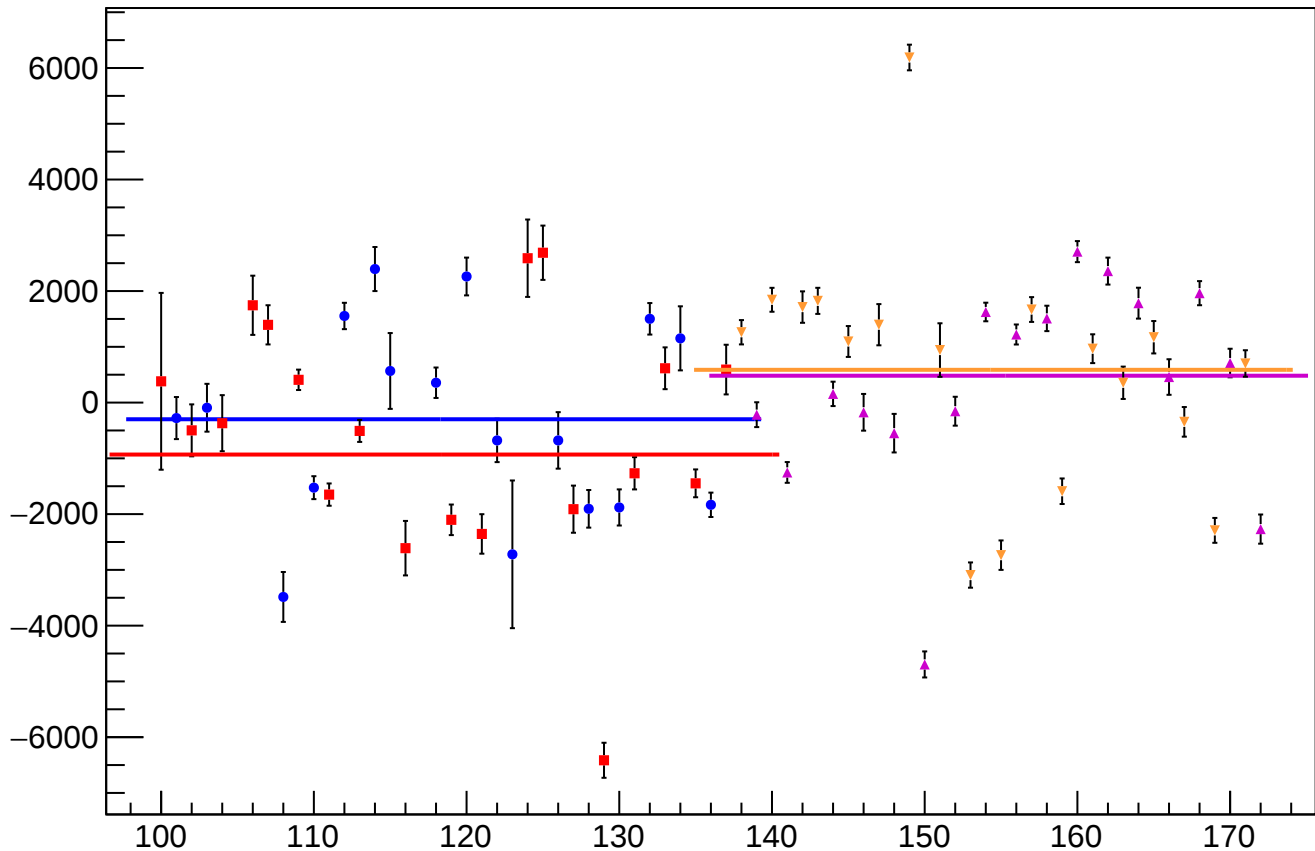
Right: 190.981 ± 0.039 $\chi^2/\text{NDF}: 2334457.4/35$

In: 198.171 ± 0.033 $\chi^2/\text{NDF}: 1818759.1/33$

Out: 202.939 ± 0.033 $\chi^2/\text{NDF}: 2387002.6/36$

All: 200.530 ± 0.023 $\chi^2/\text{NDF}: 4216252.3/70$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 χ^2/NDF : 406.6/16

Left Out: 587.612 ± 59.649 χ^2/NDF : 1411.8/17

Right Out: -931.843 ± 72.751 χ^2/NDF : 614.8/18

Left In: 481.786 ± 55.359 χ^2/NDF : 1072.4/16

Left: 530.757 ± 40.577 χ^2/NDF : 2485.8/34

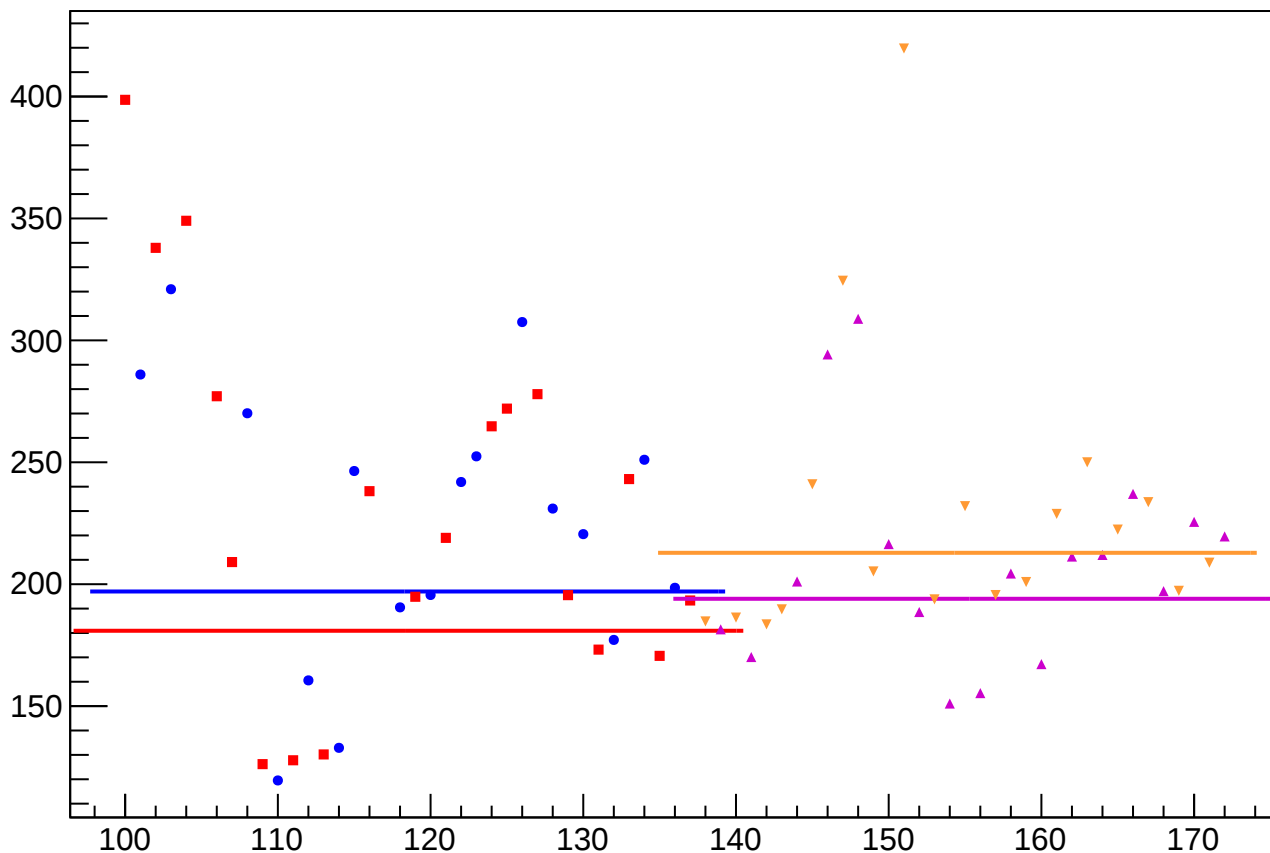
Right: -646.004 ± 53.873 χ^2/NDF : 1055.6/35

In: 229.673 ± 45.552 χ^2/NDF : 1543.2/33

Out: -23.217 ± 46.127 χ^2/NDF : 2287.4/36

All: 104.813 ± 32.412 χ^2/NDF : 3845.8/70

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 212.877+/-0.042 χ^2/NDF : 788981.9/17

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 194.020+/-0.039 χ^2/NDF : 841680.7/16

Left: 202.746+/-0.029 χ^2/NDF : 1738053.4/34

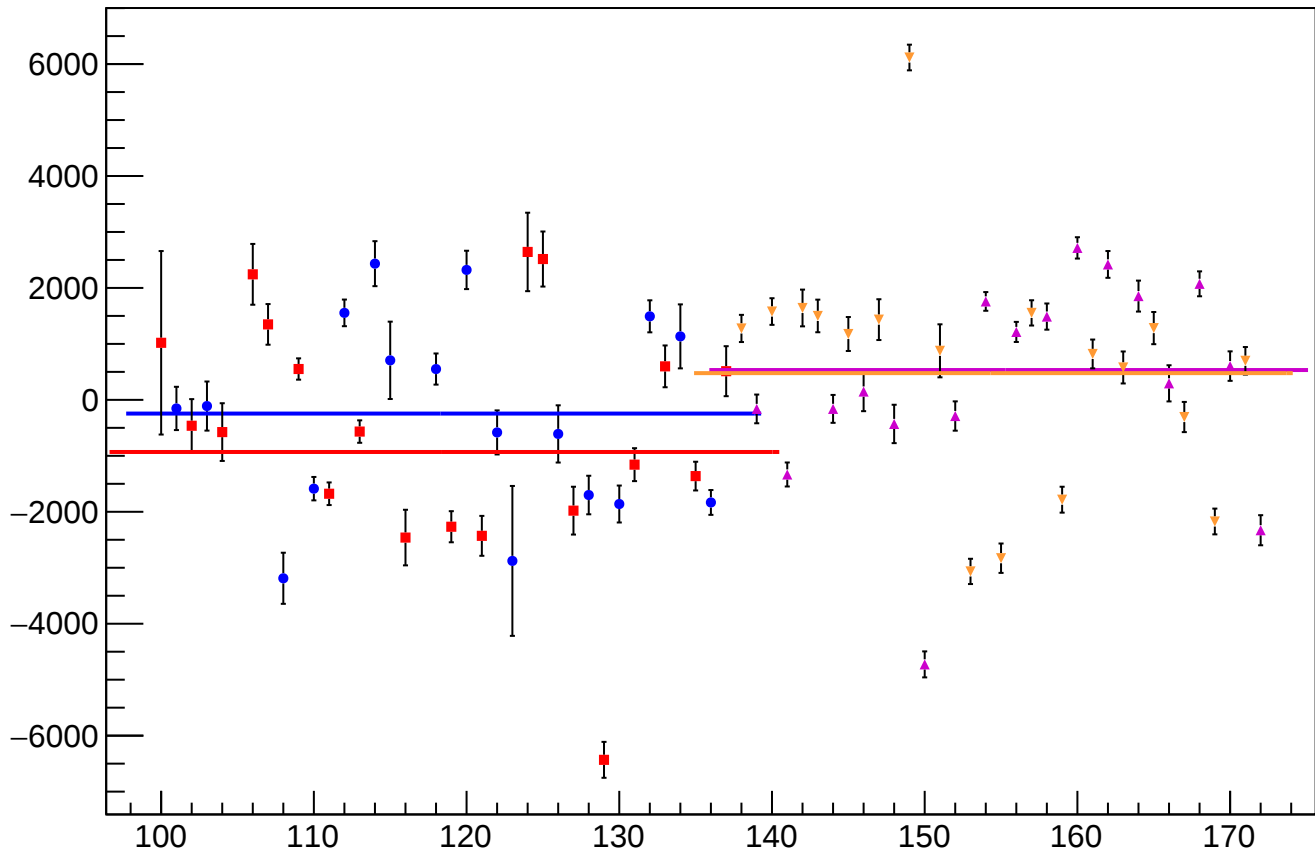
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 194.986+/-0.032 χ^2/NDF : 1755492.6/33

Out: 200.025+/-0.033 χ^2/NDF : 2365647.8/36

All: 197.474+/-0.023 χ^2/NDF : 4133220.1/70

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925+/-81.395 χ^2/NDF : 391.4/16

Left Out: 477.576+/-62.193 χ^2/NDF :1349.1/17

Right Out: -931.272+/-74.206 χ^2/NDF : 609.7/18

Left In: 532.945+/-57.361 χ^2/NDF :1084.7/16

Left: 507.495+/-42.165 χ^2/NDF : 2434.2/34

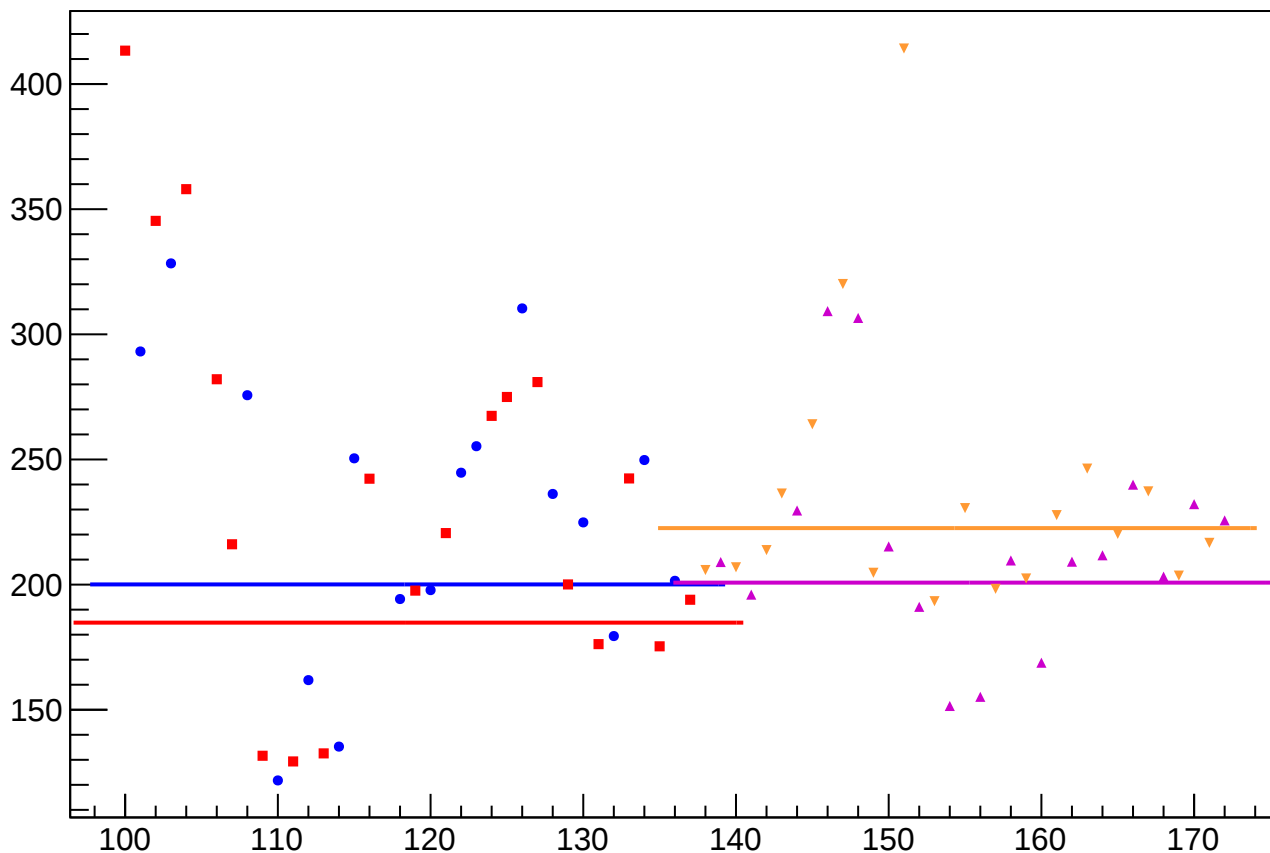
Right: -619.742+/-54.837 χ^2/NDF : 1040.0/35

In: 274.823+/-46.887 χ^2/NDF :1537.1/33

Out: -103.730+/-47.666 χ^2/NDF :2170.5/36

All: 88.663+/-33.426 χ^2/NDF : 3739.7/70

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 $\pm$ 0.058 χ^2 /NDF: 918309.2/16

Left Out: 222.579 $\pm$ 0.044 χ^2 /NDF: 653159.9/17

Right Out: 184.807 $\pm$ 0.052 χ^2 /NDF: 1318267.6/18

Left In: 200.792 $\pm$ 0.041 χ^2 /NDF: 864697.8/16

Left: 210.806 $\pm$ 0.030 χ^2 /NDF: 1650480.9/34

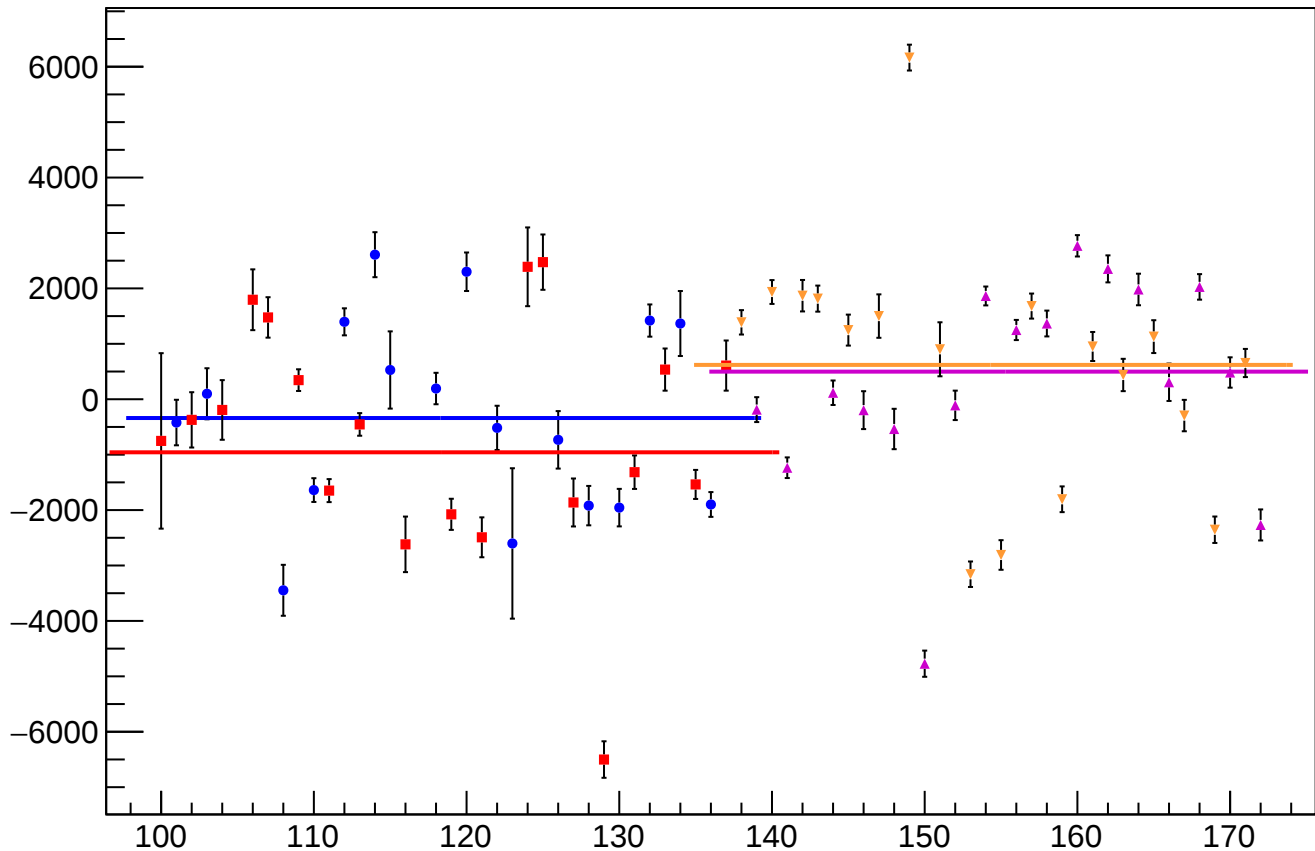
Right: 191.739 $\pm$ 0.039 χ^2 /NDF: 2275022.2/35

In: 200.555 $\pm$ 0.033 χ^2 /NDF: 1783109.7/33

Out: 206.994 $\pm$ 0.034 χ^2 /NDF: 2275799.4/36

All: 203.721 $\pm$ 0.024 χ^2 /NDF: 4077457.2/70

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966 ± 83.123 $\chi^2/\text{NDF}: 389.5/16$

Left Out: 619.539 ± 60.981 $\chi^2/\text{NDF}: 1406.7/17$

Right Out: -957.615 ± 75.749 $\chi^2/\text{NDF}: 570.3/18$

Left In: 498.038 ± 56.775 $\chi^2/\text{NDF}: 1074.2/16$

Left: 554.455 ± 41.554 $\chi^2/\text{NDF}: 2483.0/34$

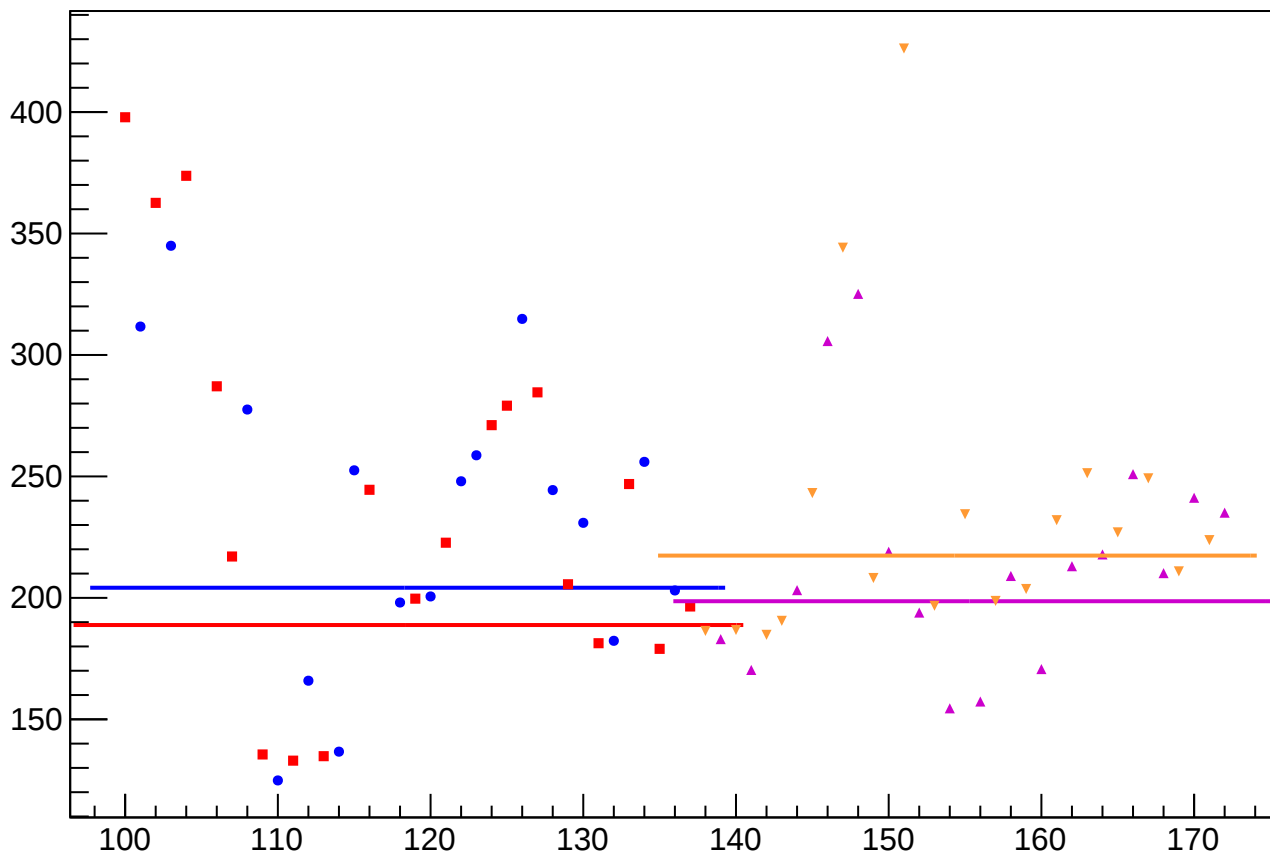
Right: -676.943 ± 55.988 $\chi^2/\text{NDF}: 990.0/35$

In: 231.770 ± 46.883 $\chi^2/\text{NDF}: 1532.8/33$

Out: -0.658 ± 47.501 $\chi^2/\text{NDF}: 2240.1/36$

All: 117.078 ± 33.368 $\chi^2/\text{NDF}: 3785.0/70$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 217.408+/-0.043 χ^2/NDF : 837374.3/17

Right Out: 188.821+/-0.054 χ^2/NDF : 1314891.2/18

Left In: 198.622+/-0.040 χ^2/NDF : 944501.6/16

Left: 207.345+/-0.029 χ^2/NDF : 1883550.3/34

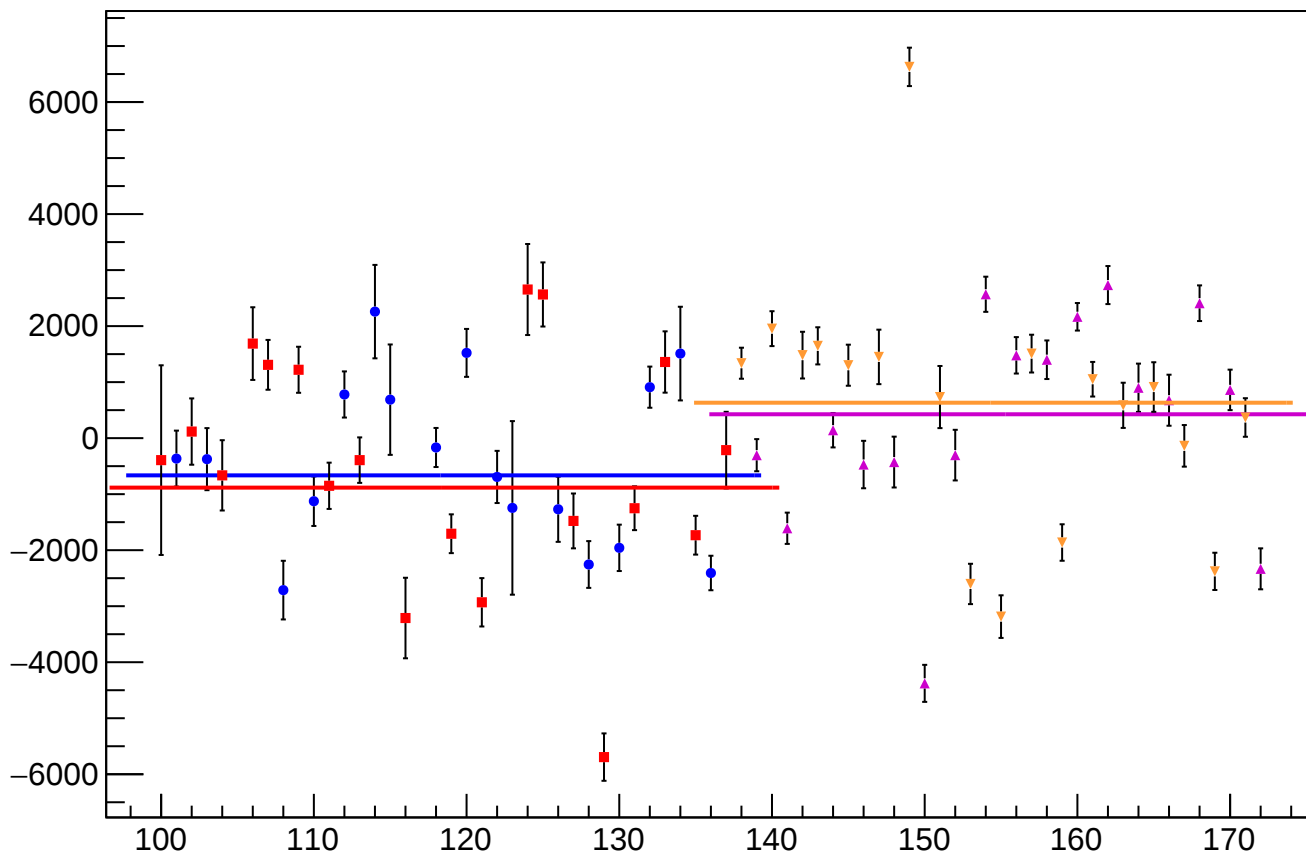
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 200.389+/-0.033 χ^2/NDF : 1898026.4/33

Out: 206.167+/-0.034 χ^2/NDF : 2325104.4/36

All: 203.240+/-0.024 χ^2/NDF : 4238120.9/70

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383 ± 113.949 χ^2/NDF : 154.3/16

Left Out: 632.653 ± 84.241 χ^2/NDF : 686.0/17

Right Out: -883.255 ± 110.875 χ^2/NDF : 320.1/18

Left In: 426.273 ± 82.050 χ^2/NDF : 542.4/16

Left: 526.744 ± 58.777 χ^2/NDF : 1231.5/34

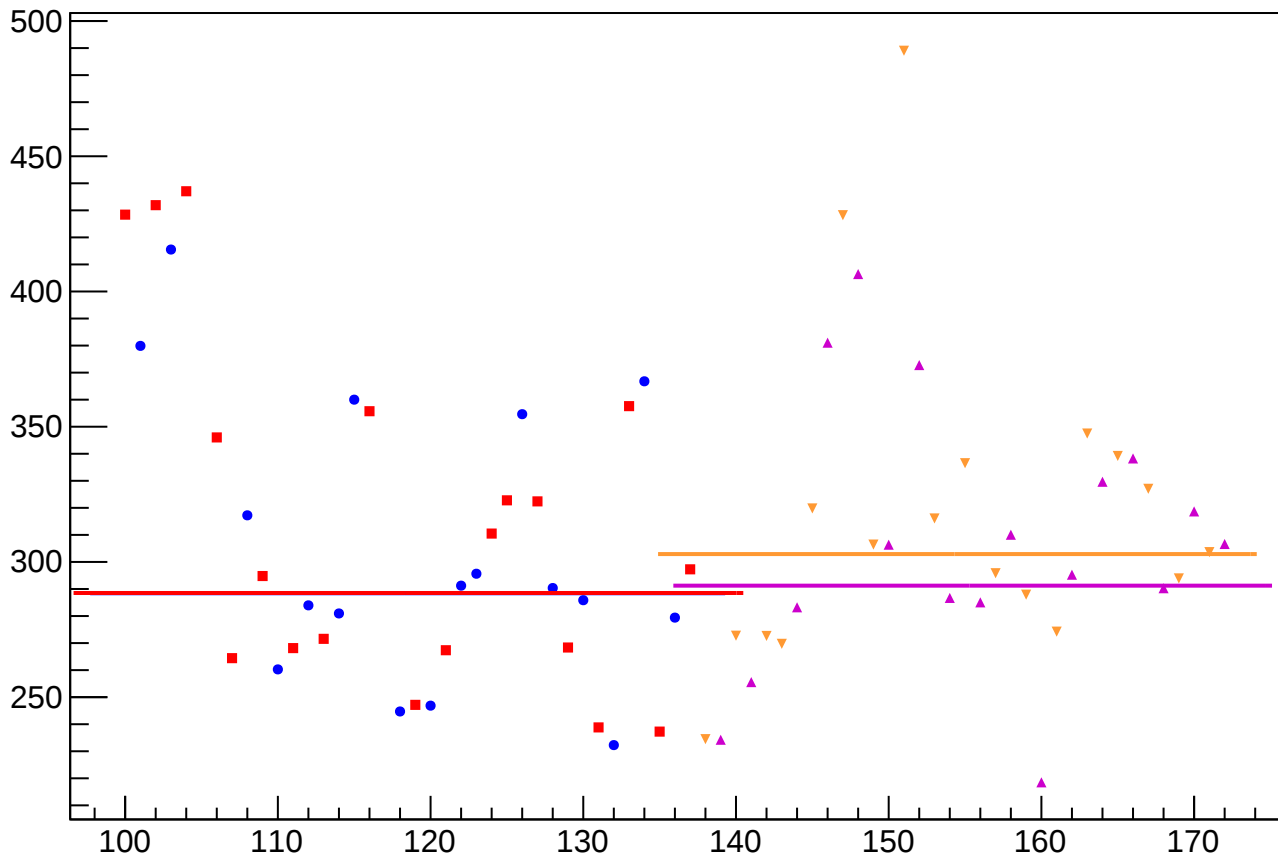
Right: -776.811 ± 79.465 χ^2/NDF : 476.3/35

In: 53.871 ± 66.584 χ^2/NDF : 757.1/33

Out: 77.841 ± 67.076 χ^2/NDF : 1124.6/36

All: 65.767 ± 47.255 χ^2/NDF : 1881.7/70

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 $\pm$ 0.081 χ^2 /NDF: 339820.0/16

Left Out: 302.910 $\pm$ 0.060 χ^2 /NDF: 622284.8/17

Right Out: 288.522 $\pm$ 0.078 χ^2 /NDF: 455410.1/18

Left In: 291.232 $\pm$ 0.058 χ^2 /NDF: 635985.7/16

Left: 296.917 $\pm$ 0.042 χ^2 /NDF: 1277992.5/34

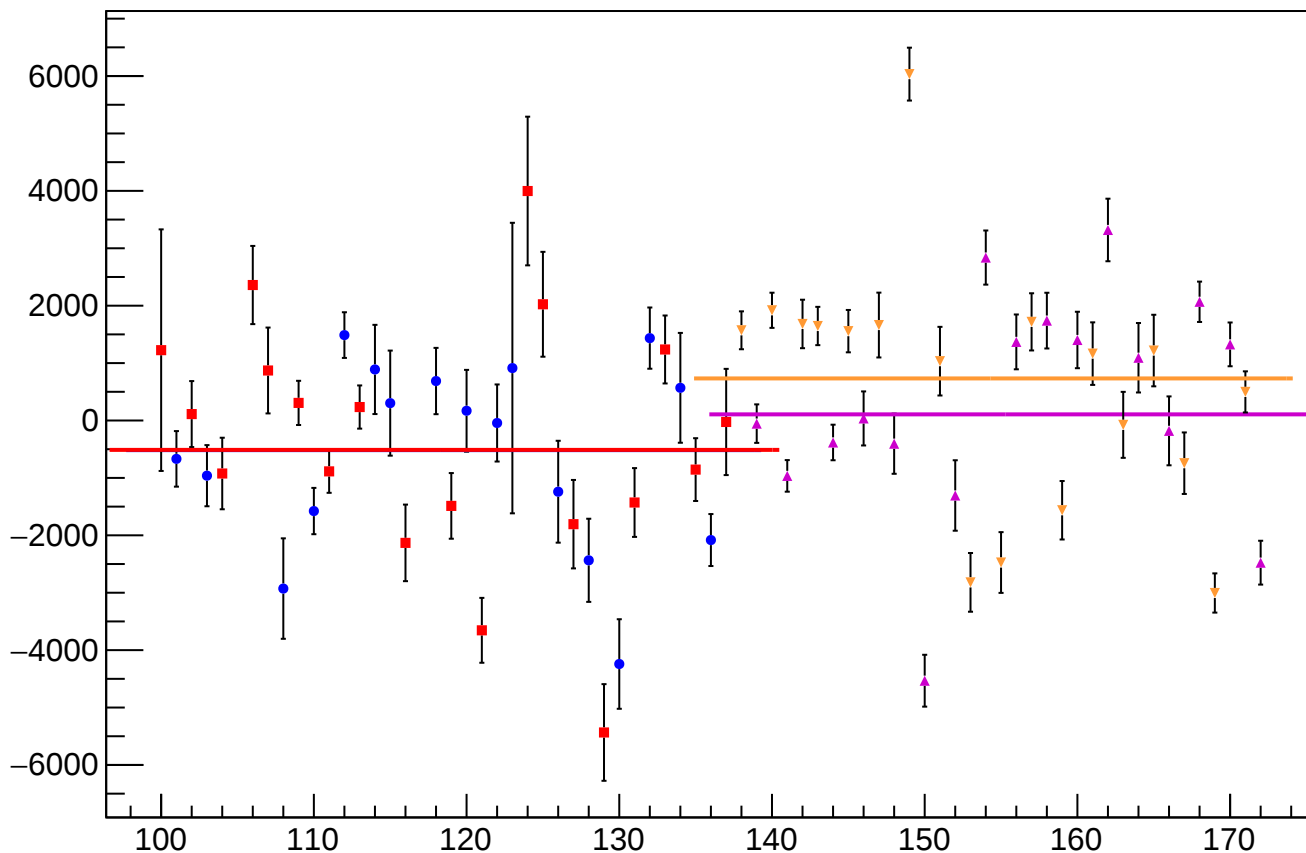
Right: 288.476 $\pm$ 0.056 χ^2 /NDF: 795230.9/35

In: 290.275 $\pm$ 0.047 χ^2 /NDF: 976603.4/33

Out: 297.644 $\pm$ 0.047 χ^2 /NDF: 1099047.6/36

All: 293.932 $\pm$ 0.033 χ^2 /NDF: 2087809.5/70

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 $\pm$ 147.326 χ^2/NDF : 108.0/16

Left Out: 732.849 $\pm$ 101.785 χ^2/NDF : 414.5/17

Right Out: -511.851 $\pm$ 135.798 χ^2/NDF : 141.3/18

Left In: 107.017 $\pm$ 101.956 χ^2/NDF : 313.2/16

Left: 420.459 $\pm$ 72.034 χ^2/NDF : 746.6/34

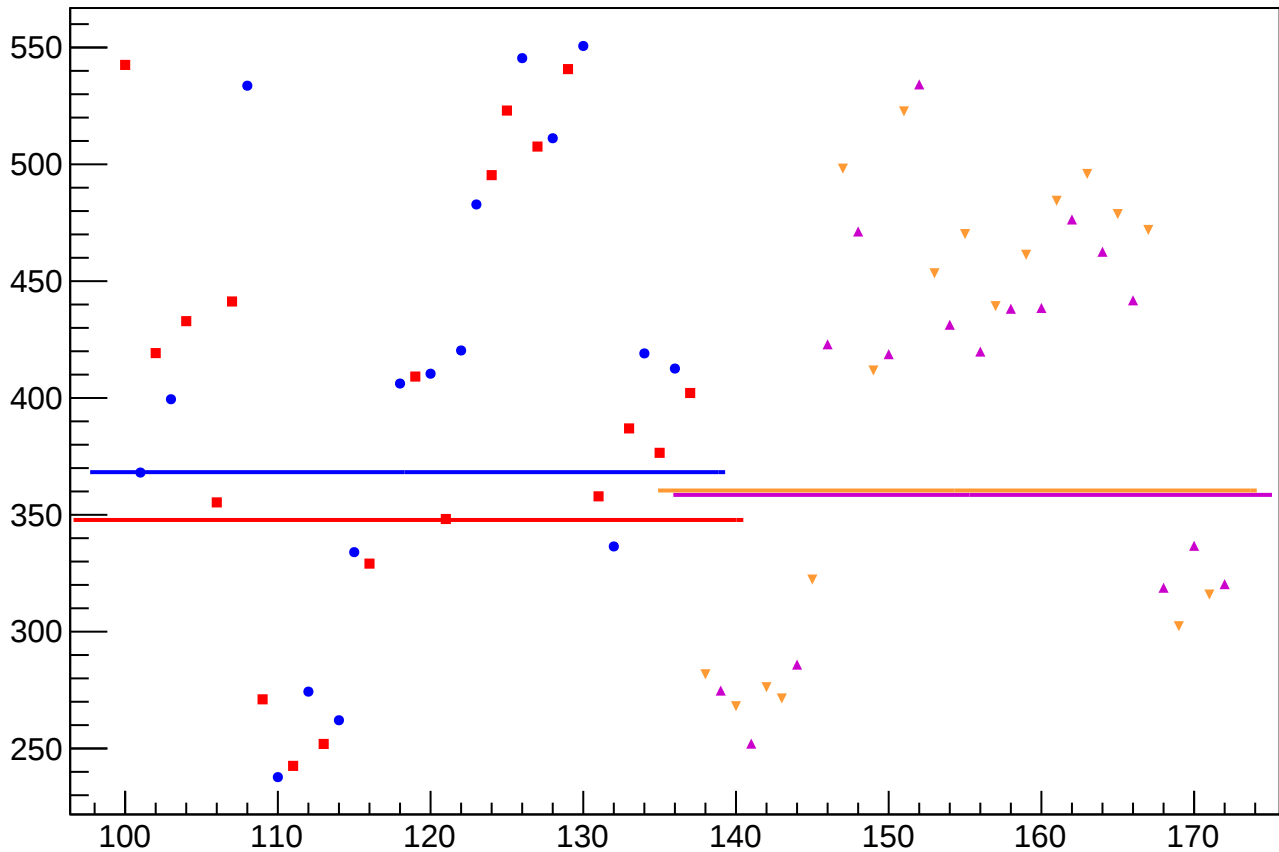
Right: -513.708 $\pm$ 99.851 χ^2/NDF : 249.3/35

In: -94.703 $\pm$ 83.838 χ^2/NDF : 433.3/33

Out: 285.114 $\pm$ 81.447 χ^2/NDF : 609.6/36

All: 100.700 $\pm$ 58.419 χ^2/NDF : 1053.5/70

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 360.412+/-0.072 χ^2/NDF : 1572502.3/17

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 358.536+/-0.072 χ^2/NDF : 1294261.7/16

Left: 359.476+/-0.051 χ^2/NDF : 2867103.4/34

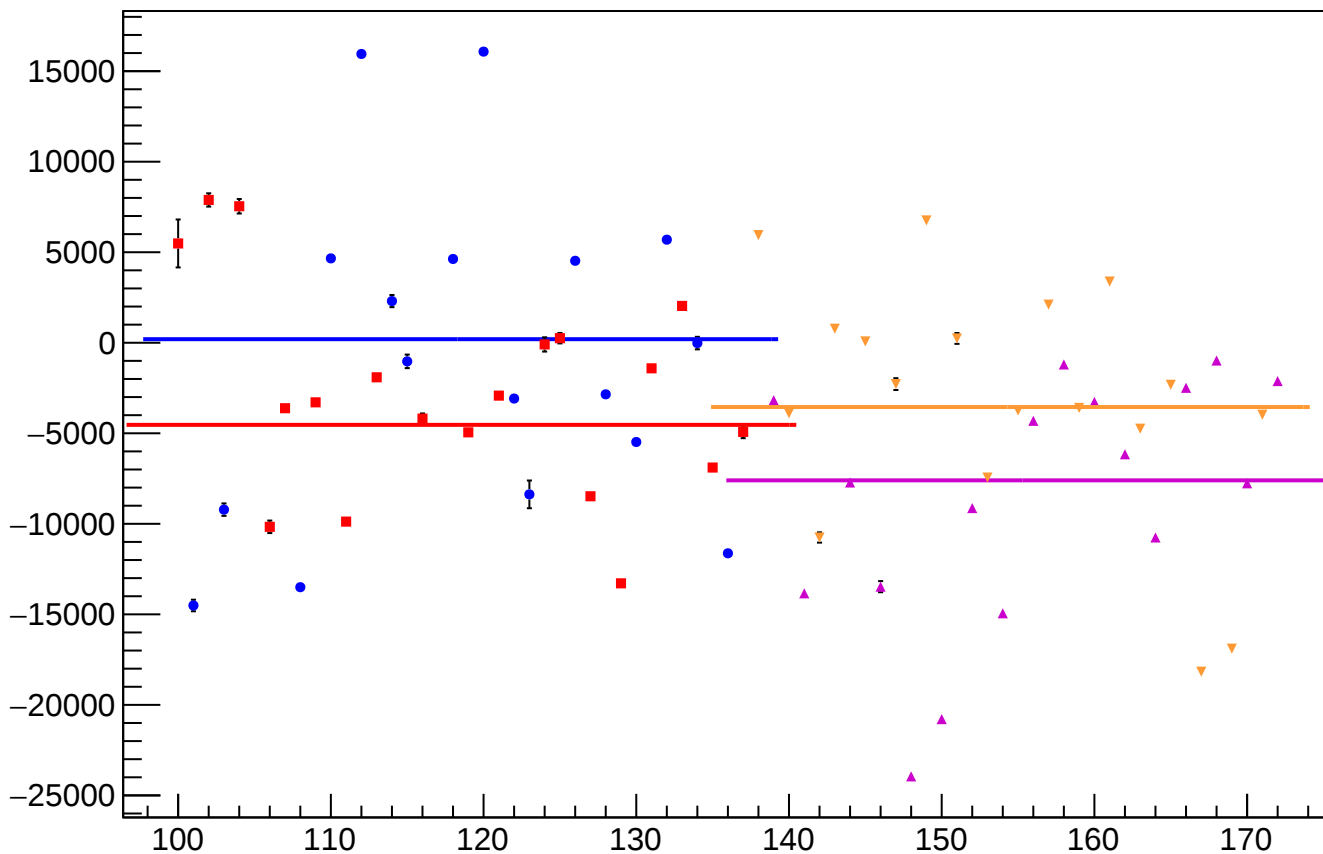
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 361.686+/-0.059 χ^2/NDF : 2070275.0/33

Out: 355.876+/-0.058 χ^2/NDF : 2405407.2/36

All: 358.697+/-0.041 χ^2/NDF : 4480623.3/70

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 $\pm$ 54.799 χ^2/NDF : 30658.3/16

Left Out: -3550.364 $\pm$ 47.085 χ^2/NDF :19806.9/17

Right Out: -4534.200 $\pm$ 52.462 χ^2/NDF : 7477.2/18

Left In: -7599.351 $\pm$ 48.089 χ^2/NDF :17192.2/16

Left: -5532.122 $\pm$ 33.643 χ^2/NDF : 40618.5/34

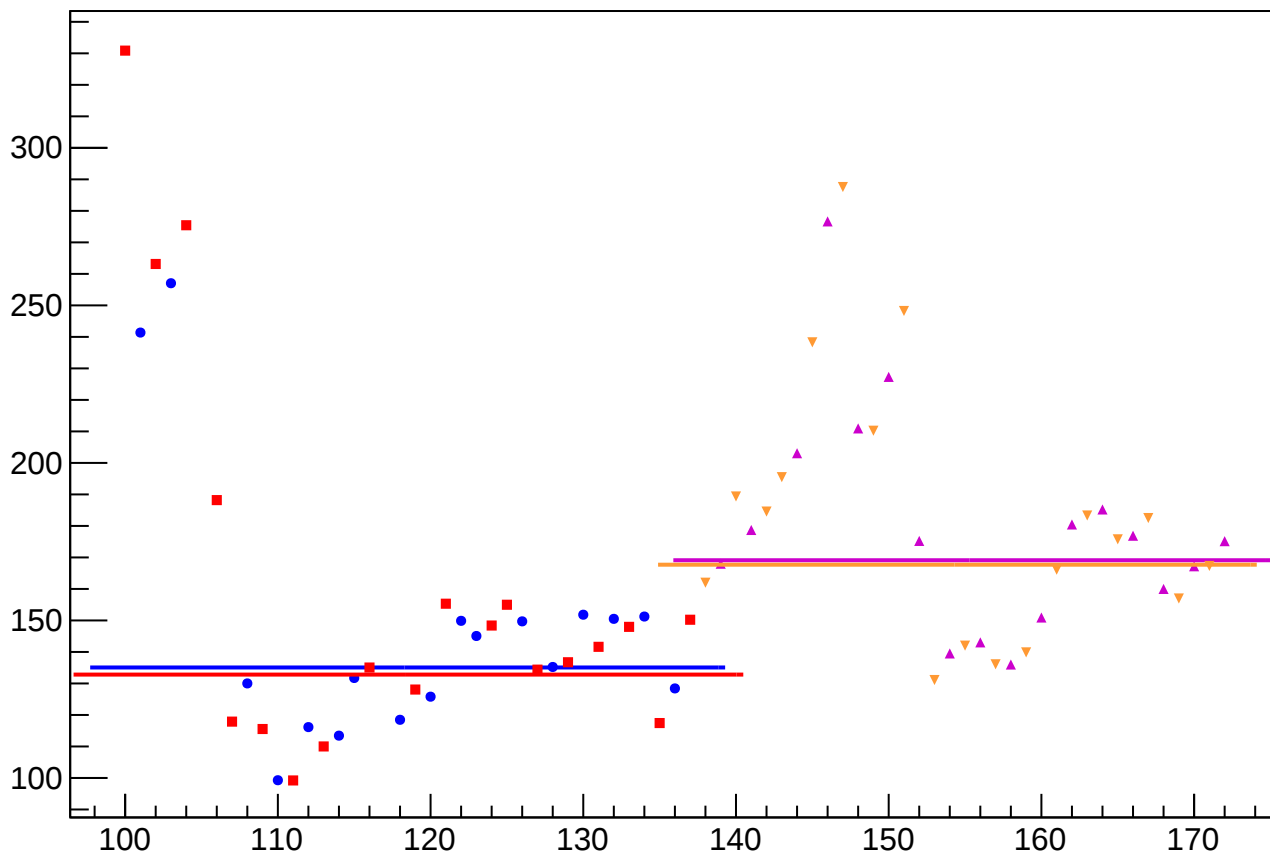
Right: -2271.626 $\pm$ 37.895 χ^2/NDF : 42025.0/35

In: -4207.409 $\pm$ 36.145 χ^2/NDF :59285.6/33

Out: -3989.295 $\pm$ 35.041 χ^2/NDF :27478.9/36

All: -4094.971 $\pm$ 25.159 χ^2/NDF : 86783.3/70

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072+/-0.039 χ^2/NDF : 658703.5/16

Left Out: 167.695+/-0.033 χ^2/NDF :1020786.2/17

Right Out: 132.816+/-0.037 χ^2/NDF : 831191.5/18

Left In: 169.110+/-0.034 χ^2/NDF :738636.3/16

Left: 168.388+/-0.024 χ^2/NDF : 1760307.2/34

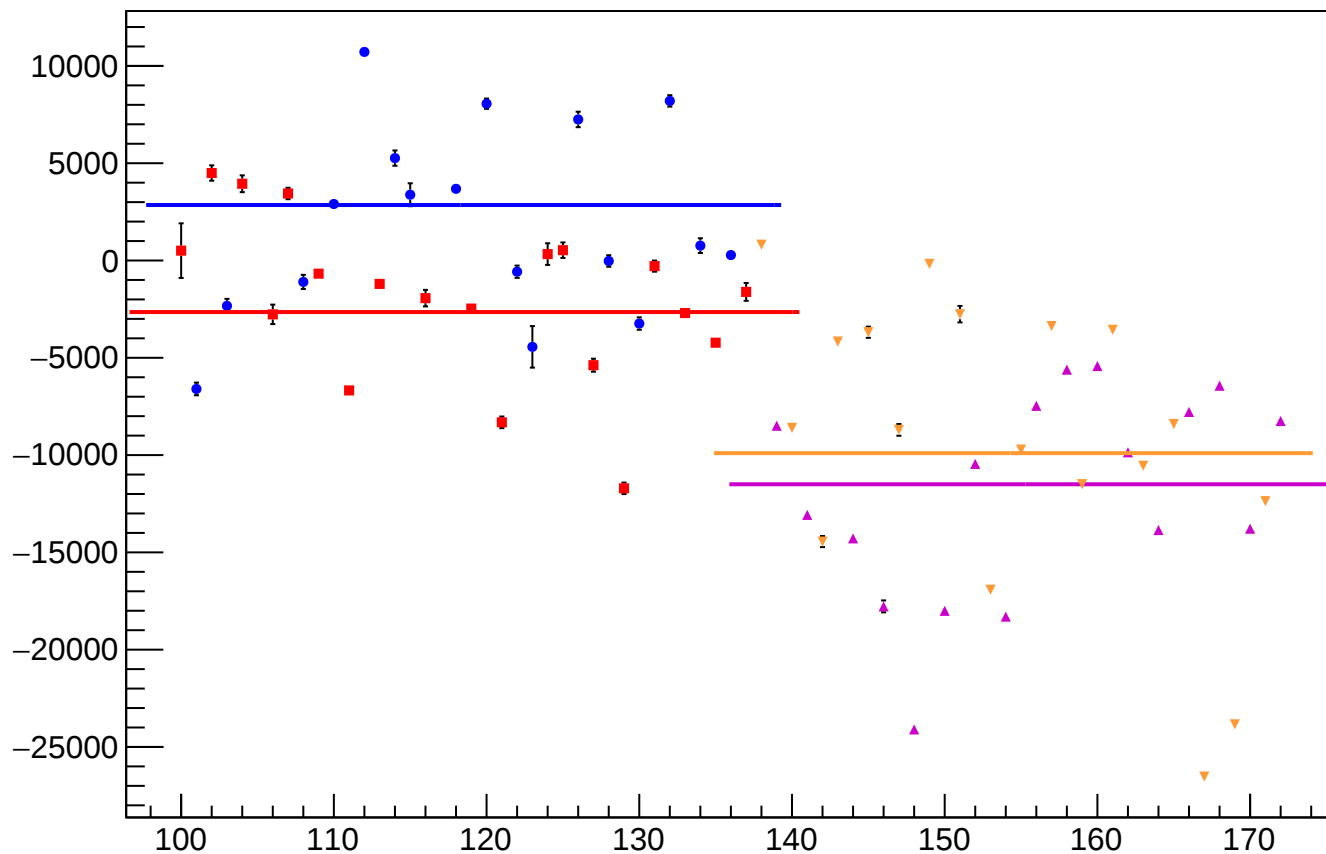
Right: 133.895+/-0.027 χ^2/NDF : 1491663.0/35

In: 154.301+/-0.026 χ^2/NDF :1833281.0/33

Out: 152.134+/-0.025 χ^2/NDF :2341598.2/36

All: 153.184+/-0.018 χ^2/NDF : 4178586.0/70

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -9900.273+/-53.180 χ^2/NDF :21012.0/17

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11500.001+/-49.042 χ^2/NDF :10804.2/16

Left: -10764.787+/-36.052 χ^2/NDF : 32305.2/34

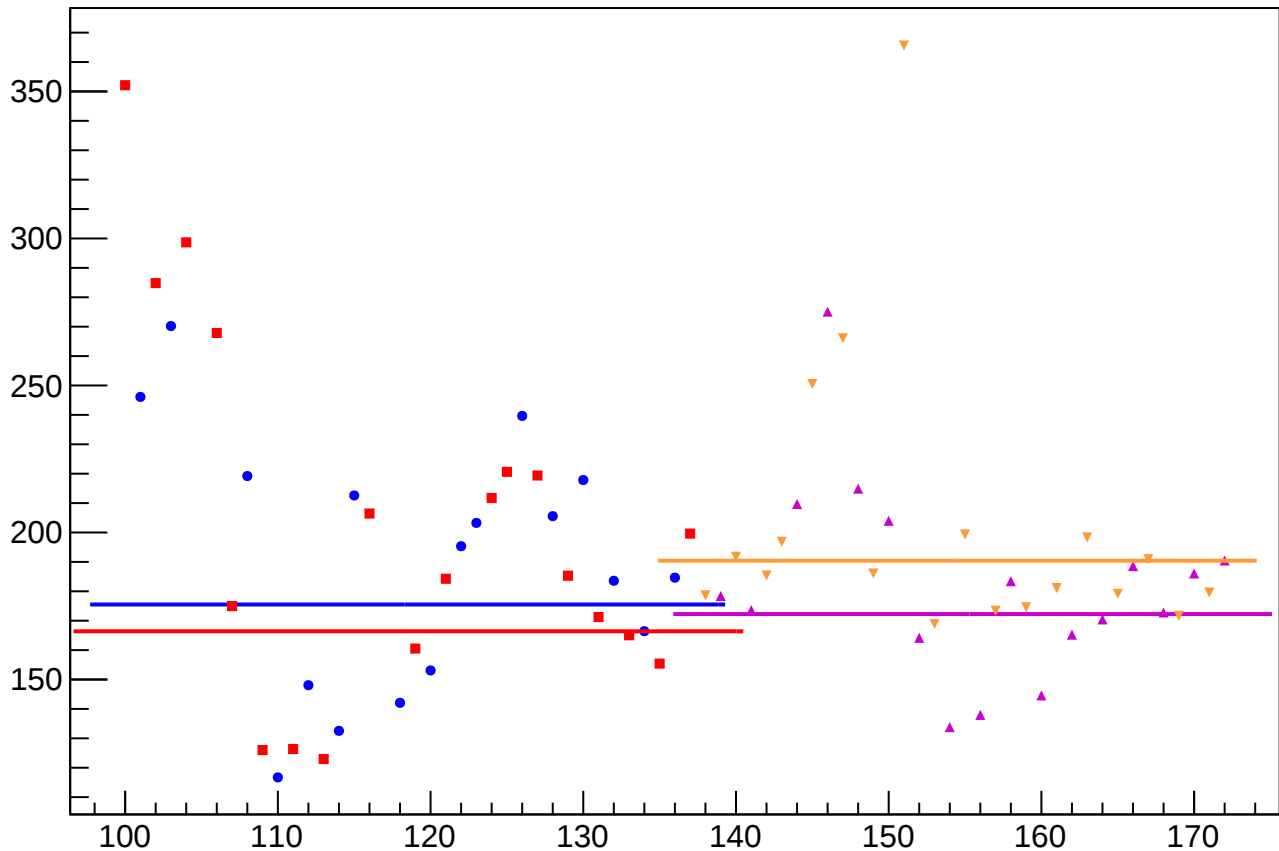
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6842.609+/-40.306 χ^2/NDF :42773.4/33

Out: -7031.644+/-41.343 χ^2/NDF :31542.9/36

All: -6934.726+/-28.860 χ^2/NDF : 74327.0/70

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 190.410 $\pm$ 0.038 χ^2 /NDF: 656155.6/17

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 172.262 $\pm$ 0.035 χ^2 /NDF: 710439.7/16

Left: 180.603 $\pm$ 0.025 χ^2 /NDF: 1492464.2/34

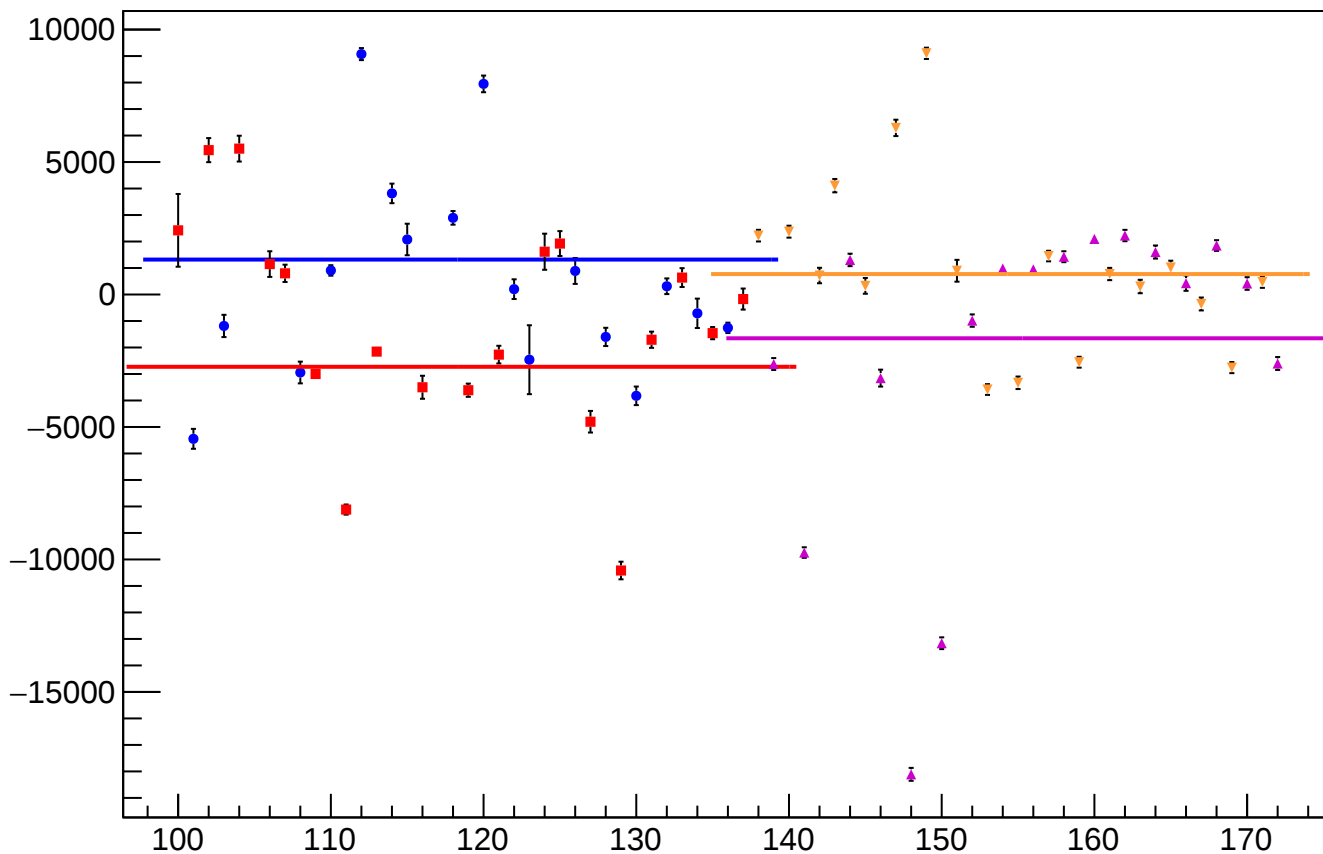
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 173.318 $\pm$ 0.029 χ^2 /NDF: 1402936.1/33

Out: 180.909 $\pm$ 0.029 χ^2 /NDF: 1747071.3/36

All: 177.017 $\pm$ 0.020 χ^2 /NDF: 3184576.6/70

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009 $\pm$ 77.146 χ^2 /NDF: 2667.0/16

Left Out: 771.369 $\pm$ 56.147 χ^2 /NDF:3467.1/17

Right Out: -2727.798 $\pm$ 70.029 χ^2 /NDF: 2495.9/18

Left In: -1652.600 $\pm$ 51.553 χ^2 /NDF:11302.8/16

Left: -543.824 $\pm$ 37.974 χ^2 /NDF: 15781.1/34

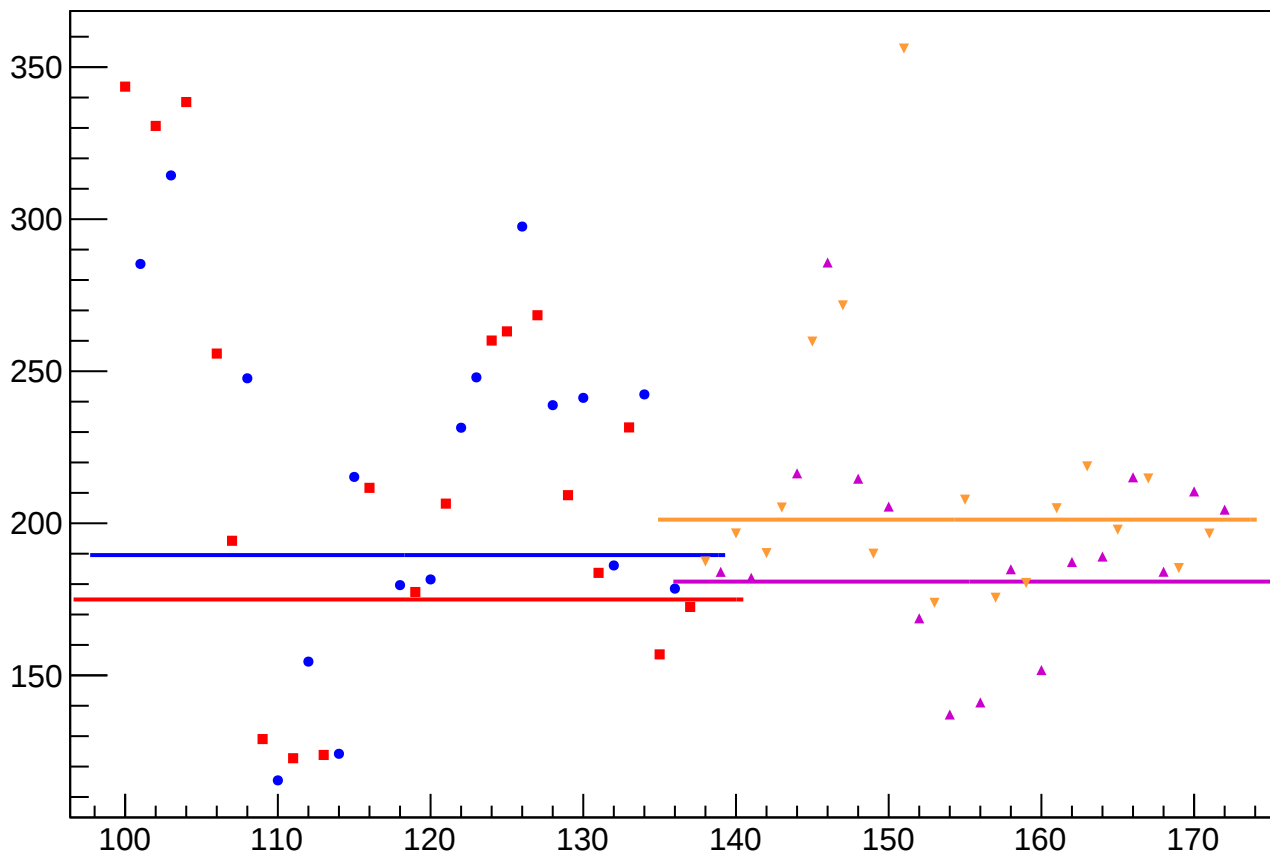
Right: -899.614 $\pm$ 51.852 χ^2 /NDF: 6671.5/35

In: -735.236 $\pm$ 42.863 χ^2 /NDF:14995.5/33

Out: -597.840 $\pm$ 43.806 χ^2 /NDF:7482.7/36

All: -668.032 $\pm$ 30.637 χ^2 /NDF: 22483.3/70

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 201.202 $\pm$ 0.040 χ^2 /NDF: 601848.4/17

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 180.823 $\pm$ 0.036 χ^2 /NDF: 757073.6/16

Left: 190.144 $\pm$ 0.027 χ^2 /NDF: 1501878.0/34

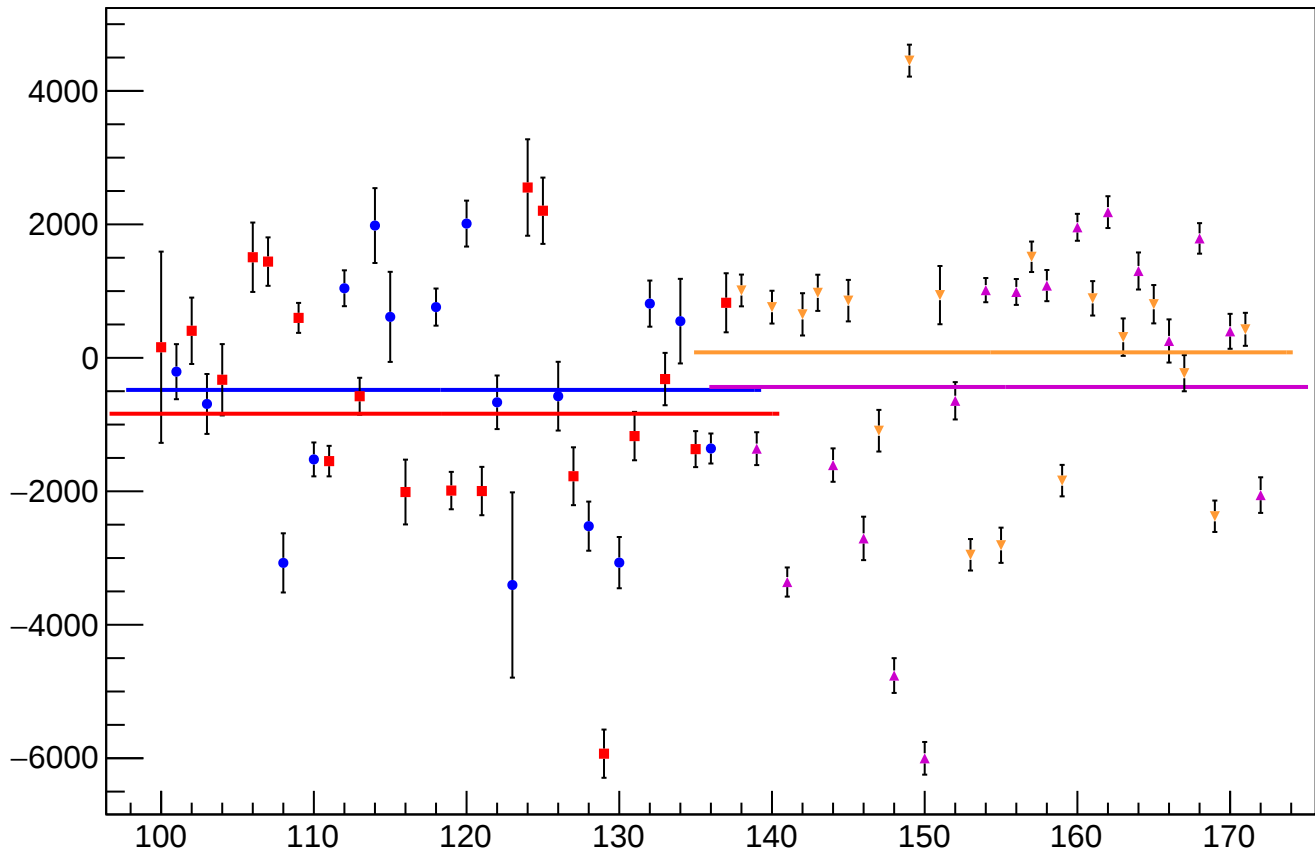
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 183.515 $\pm$ 0.030 χ^2 /NDF: 1755490.3/33

Out: 190.927 $\pm$ 0.031 χ^2 /NDF: 2070114.1/36

All: 187.140 $\pm$ 0.022 χ^2 /NDF: 3854855.1/70

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 $\pm$ 88.640 χ^2/NDF : 290.7/16

Left Out: 82.318 $\pm$ 62.201 χ^2/NDF :914.7/17

Right Out: -837.442 $\pm$ 82.243 χ^2/NDF : 435.3/18

Left In: -436.447 $\pm$ 58.251 χ^2/NDF :1662.6/16

Left: -194.059 $\pm$ 42.517 χ^2/NDF : 2614.4/34

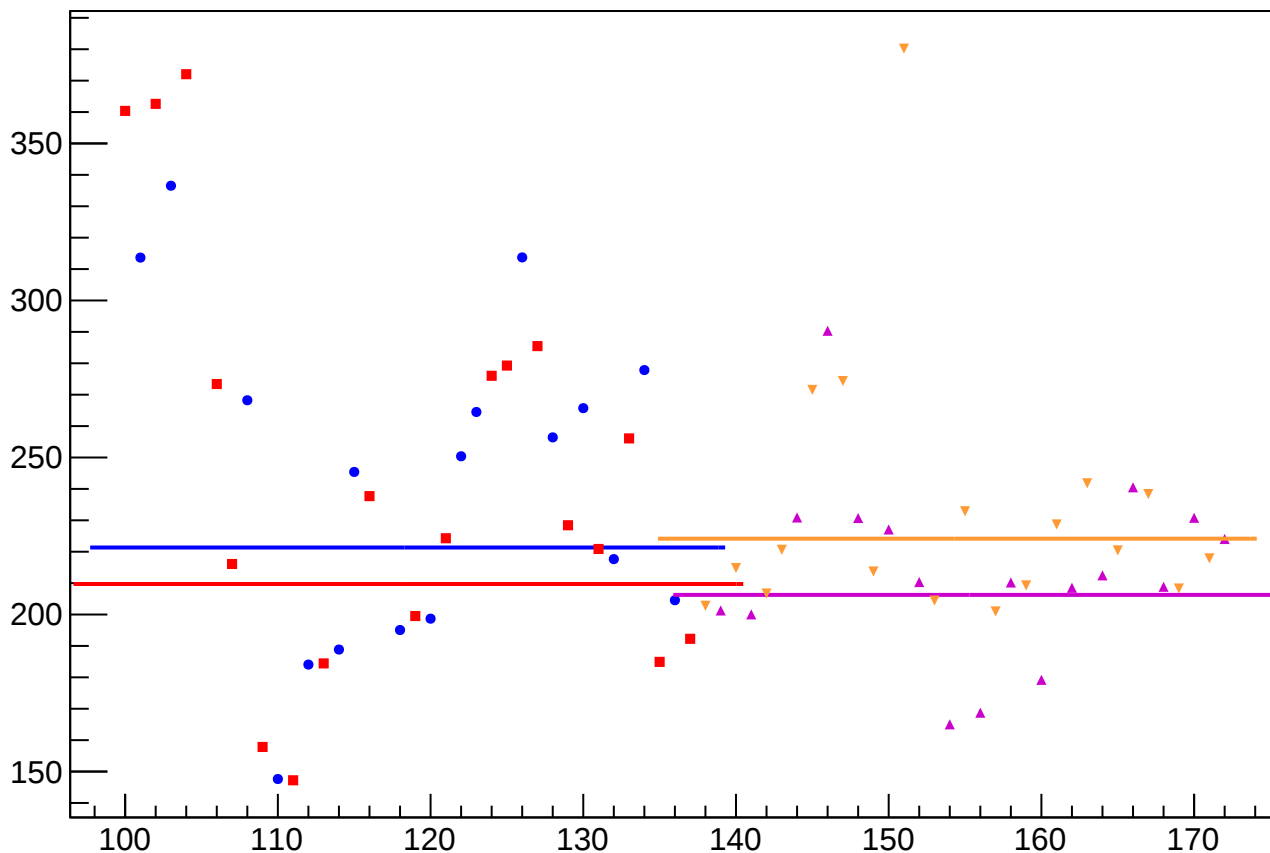
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -449.757 $\pm$ 48.680 χ^2/NDF :1953.5/33

Out: -252.353 $\pm$ 49.610 χ^2/NDF :1429.6/36

All: -352.923 $\pm$ 34.746 χ^2/NDF : 3391.1/70

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342+/-0.063 χ^2/NDF : 645688.1/16

Left Out: 224.152+/-0.044 χ^2/NDF : 452663.1/17

Right Out: 209.717+/-0.058 χ^2/NDF : 883917.7/18

Left In: 206.253+/-0.041 χ^2/NDF : 452900.9/16

Left: 214.616+/-0.030 χ^2/NDF : 993798.2/34

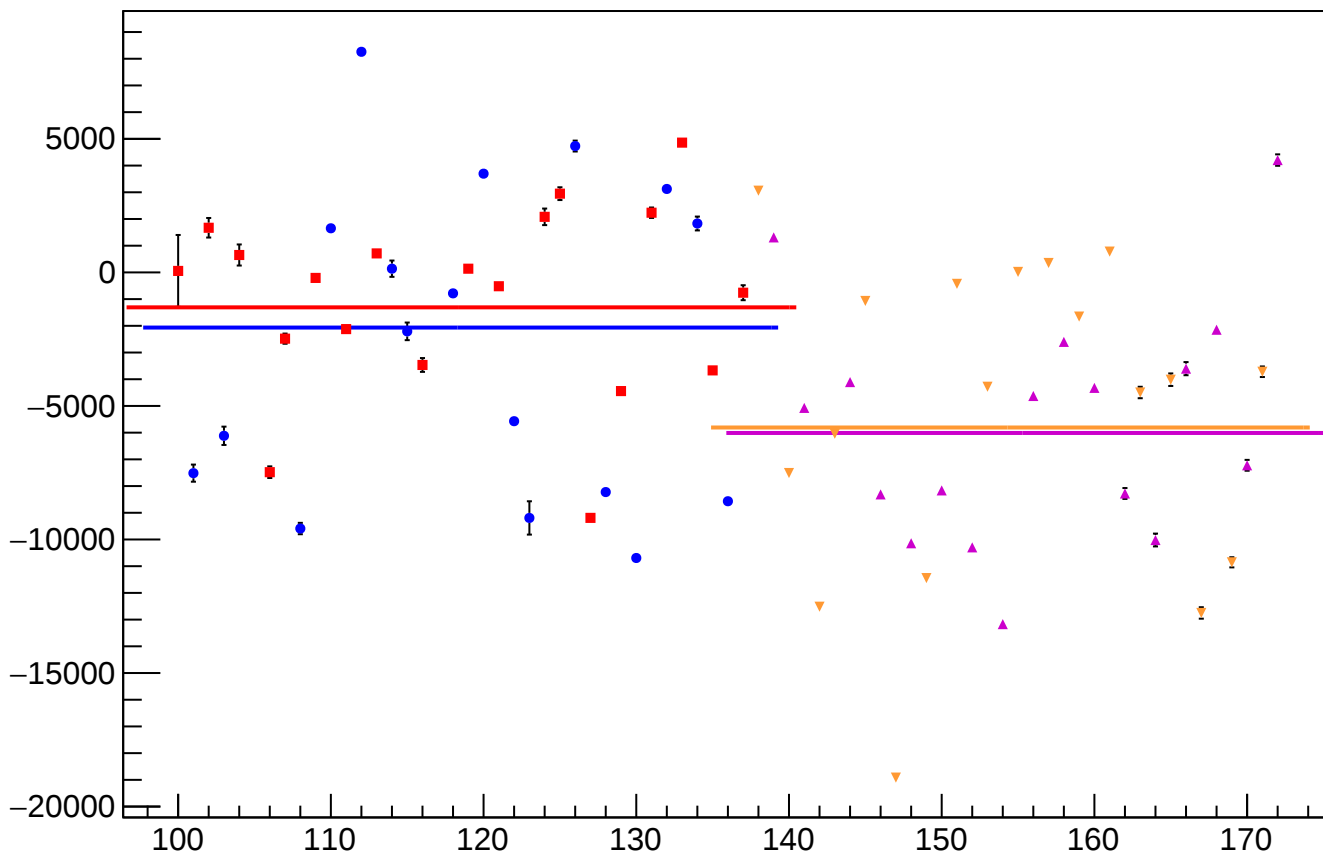
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 210.804+/-0.034 χ^2/NDF : 1139064.3/33

Out: 218.900+/-0.035 χ^2/NDF : 1375778.3/36

All: 214.775+/-0.025 χ^2/NDF : 2541975.6/70

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -5807.080 ± 36.075 $\chi^2/\text{NDF}: 30142.5/17$

Right Out: -1308.512 ± 45.001 $\chi^2/\text{NDF}: 5894.4/18$

Left In: -6011.899 ± 36.873 $\chi^2/\text{NDF}: 12005.0/16$

Left: -5907.250 ± 25.786 $\chi^2/\text{NDF}: 42163.2/34$

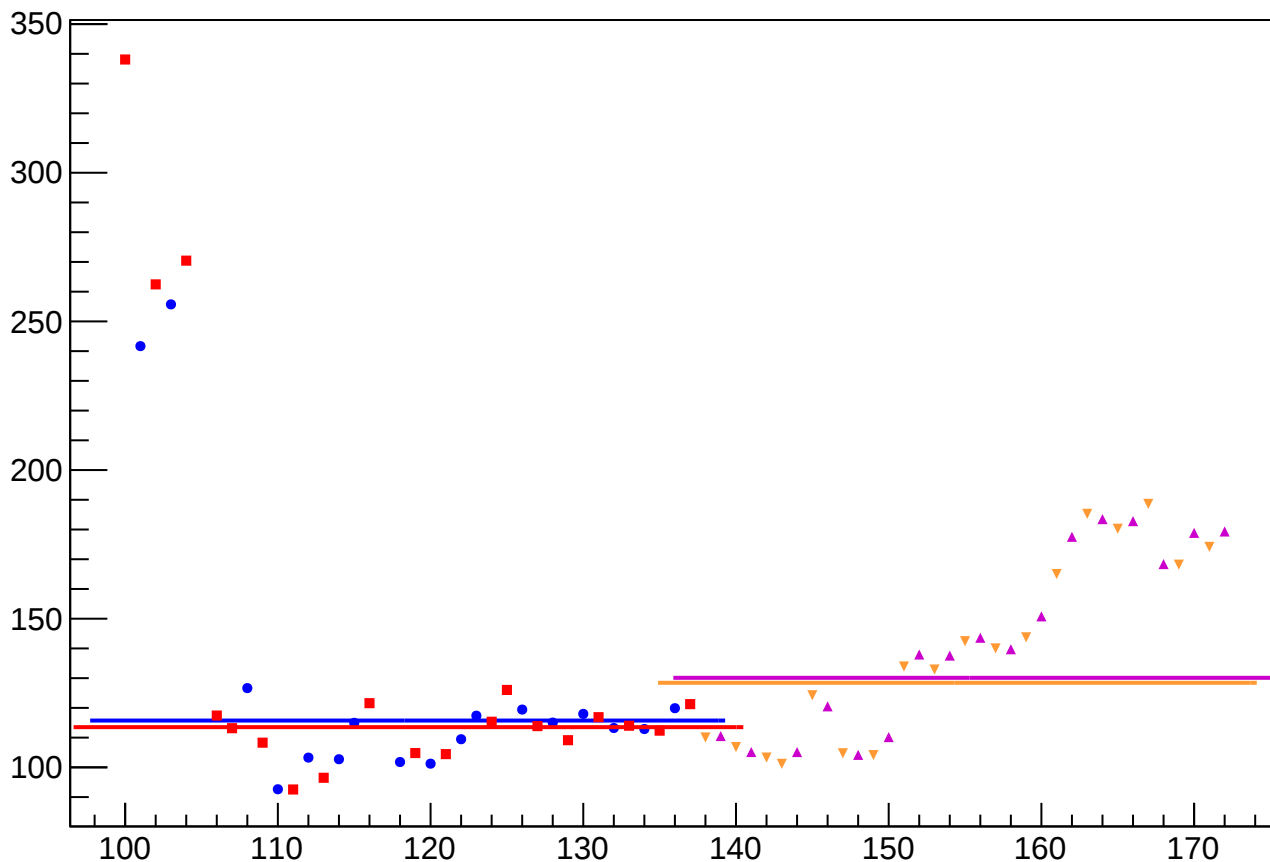
Right: -1667.825 ± 32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4520.925 ± 29.086 $\chi^2/\text{NDF}: 32866.3/33$

Out: -4047.136 ± 28.147 $\chi^2/\text{NDF}: 42120.5/36$

All: -4276.263 ± 20.227 $\chi^2/\text{NDF}: 75123.9/70$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 128.441+/-0.026 χ^2/NDF : 1125852.0/17

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 130.115+/-0.026 χ^2/NDF : 1059627.3/16

Left: 129.259+/-0.018 χ^2/NDF : 2187585.5/34

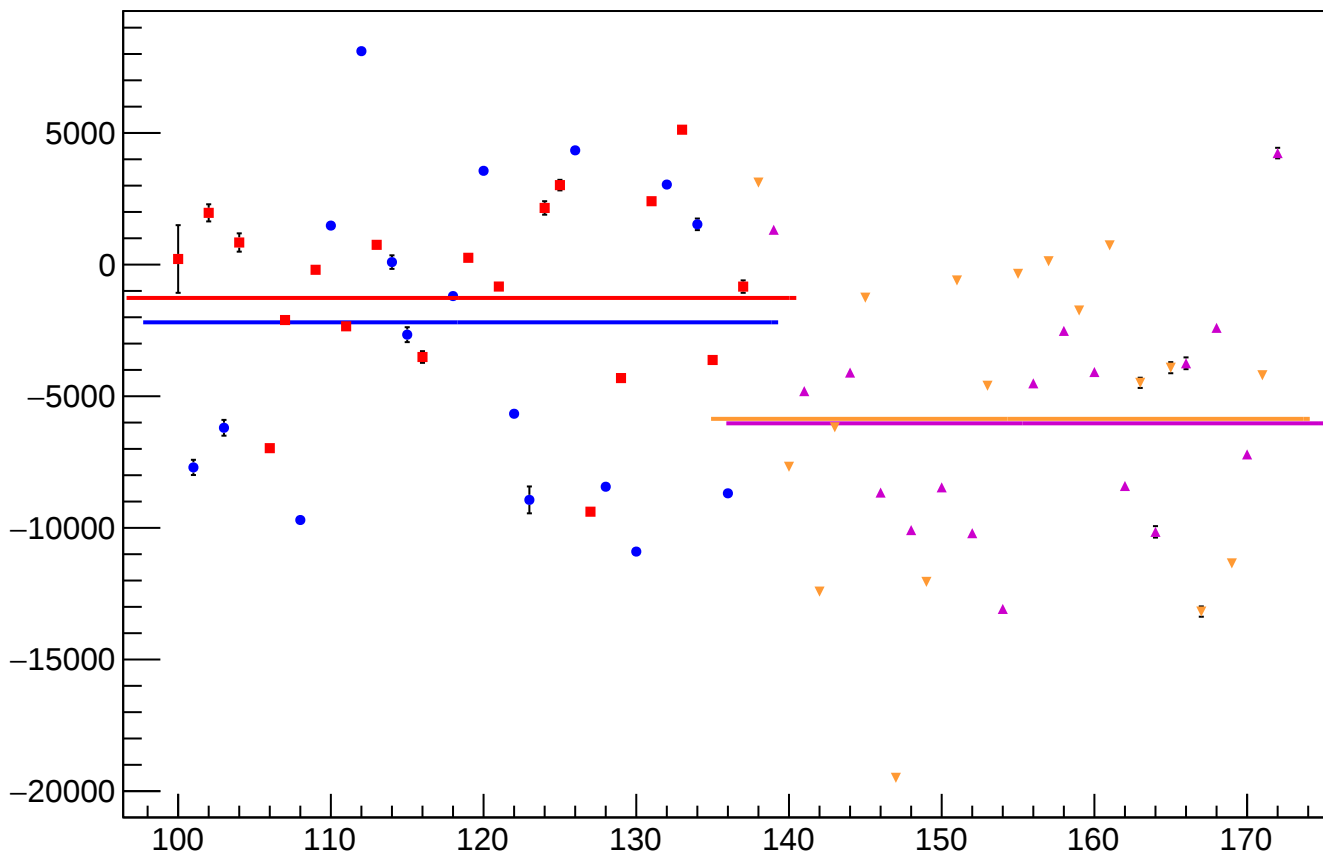
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 124.684+/-0.021 χ^2/NDF : 1918463.1/33

Out: 122.603+/-0.020 χ^2/NDF : 2056358.5/36

All: 123.610+/-0.014 χ^2/NDF : 3980111.1/70

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327+/-39.944 χ^2/NDF : 22813.5/16

Left Out: -5858.597+/-32.636 χ^2/NDF : 36919.3/17

Right Out: -1266.189+/-38.048 χ^2/NDF : 8550.5/18

Left In: -6029.026+/-33.763 χ^2/NDF : 14641.7/16

Left: -5940.920+/-23.466 χ^2/NDF : 51574.2/34

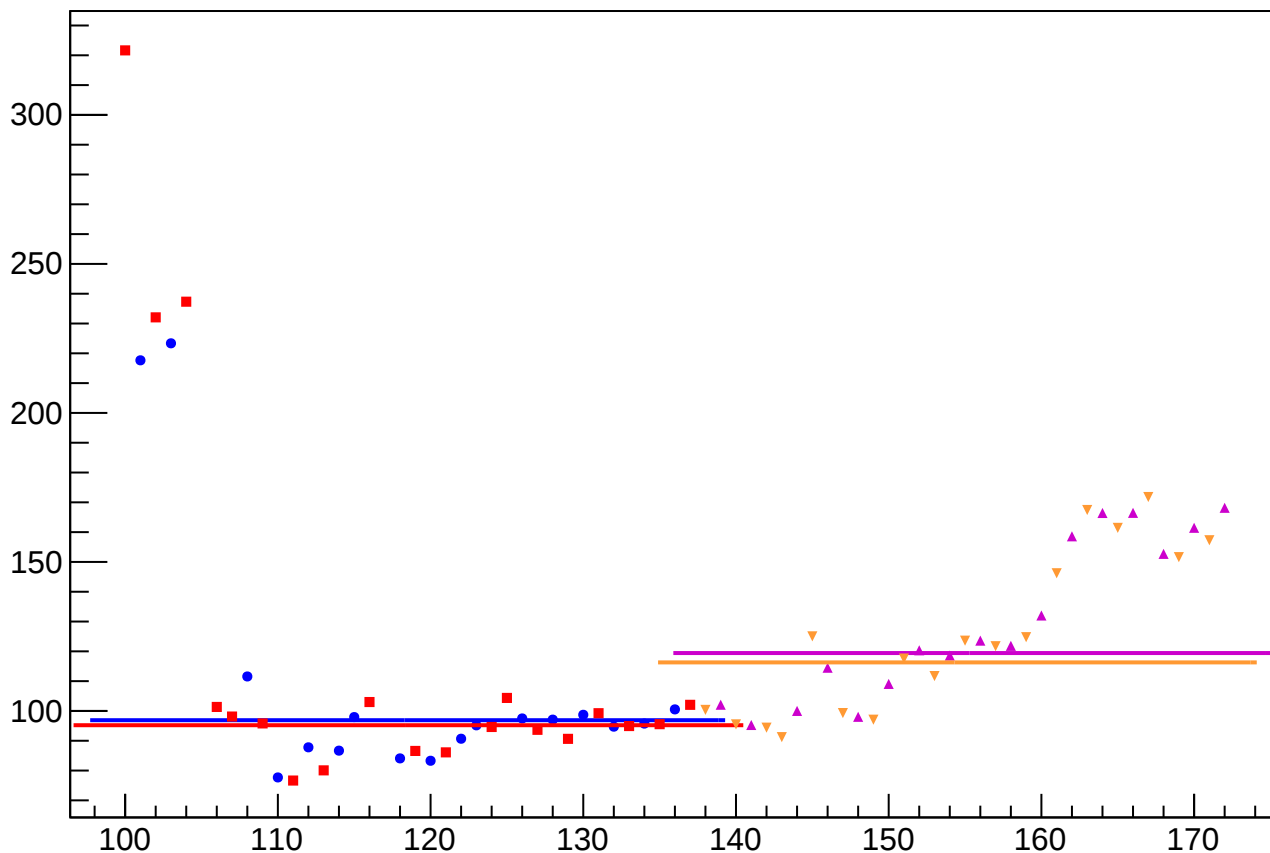
Right: -1706.759+/-27.550 χ^2/NDF : 31645.9/35

In: -4430.166+/-25.786 χ^2/NDF : 42836.5/33

Out: -3911.962+/-24.772 χ^2/NDF : 53863.0/36

All: -4160.675+/-17.864 χ^2/NDF : 96909.5/70

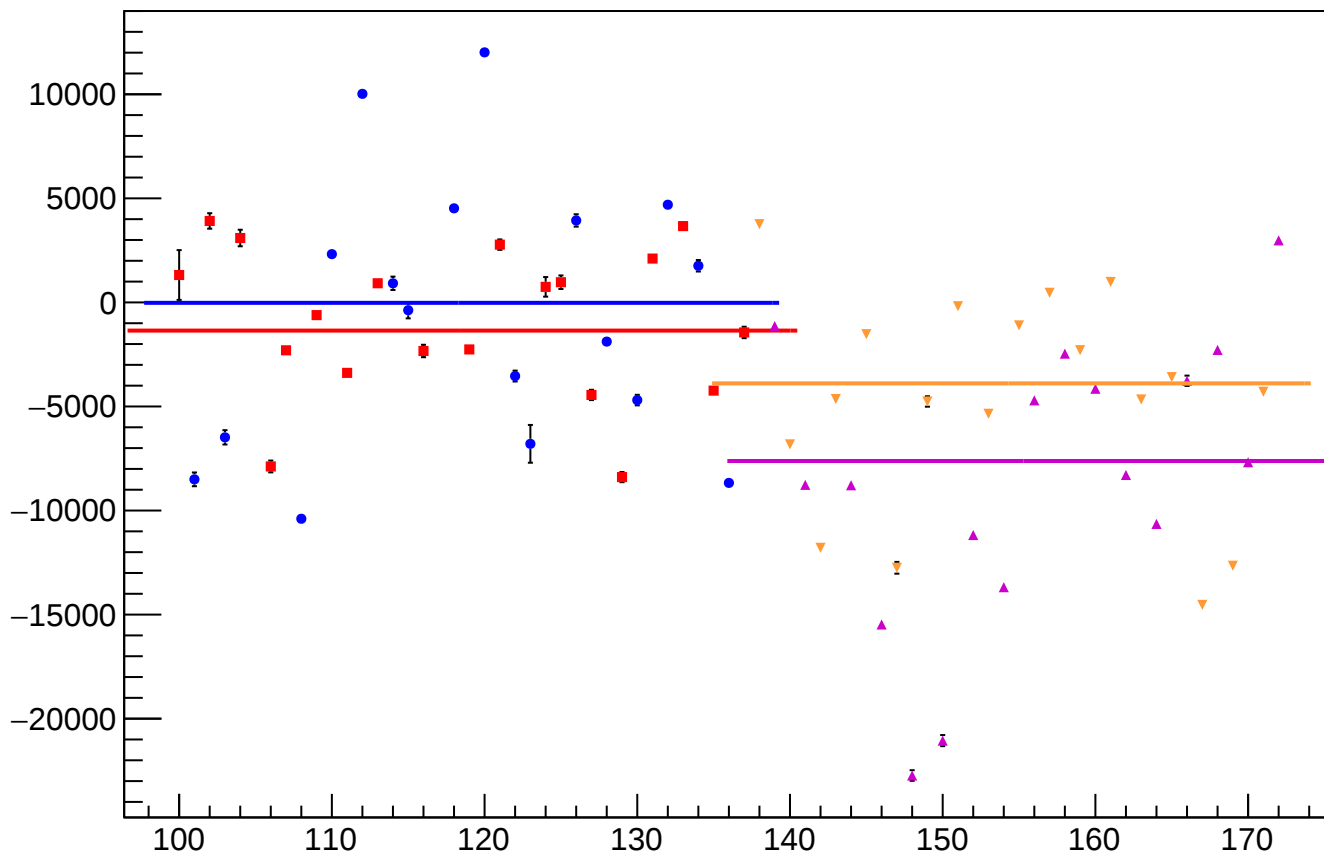
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894 ± 0.028 $\chi^2/\text{NDF}: 817229.9/16$
 Left Out: 116.289 ± 0.023 $\chi^2/\text{NDF}: 1028358.8/17$
 Right Out: 95.213 ± 0.027 $\chi^2/\text{NDF}: 859809.7/18$
 Left In: 119.429 ± 0.024 $\chi^2/\text{NDF}: 892127.2/16$

Left: 117.806 ± 0.017 $\chi^2/\text{NDF}: 1929428.0/34$
 Right: 96.013 ± 0.019 $\chi^2/\text{NDF}: 1678895.4/35$
 In: 110.038 ± 0.018 $\chi^2/\text{NDF}: 2080652.4/33$
 Out: 107.356 ± 0.018 $\chi^2/\text{NDF}: 2241708.9/36$
 All: 108.643 ± 0.013 $\chi^2/\text{NDF}: 4333617.1/70$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -3889.892 ± 44.598 $\chi^2/\text{NDF}: 11660.6/17$

Right Out: -1353.461 ± 52.367 $\chi^2/\text{NDF}: 3837.2/18$

Left In: -7619.521 ± 46.496 $\chi^2/\text{NDF}: 15813.9/16$

Left: -5677.066 ± 32.186 $\chi^2/\text{NDF}: 30825.7/34$

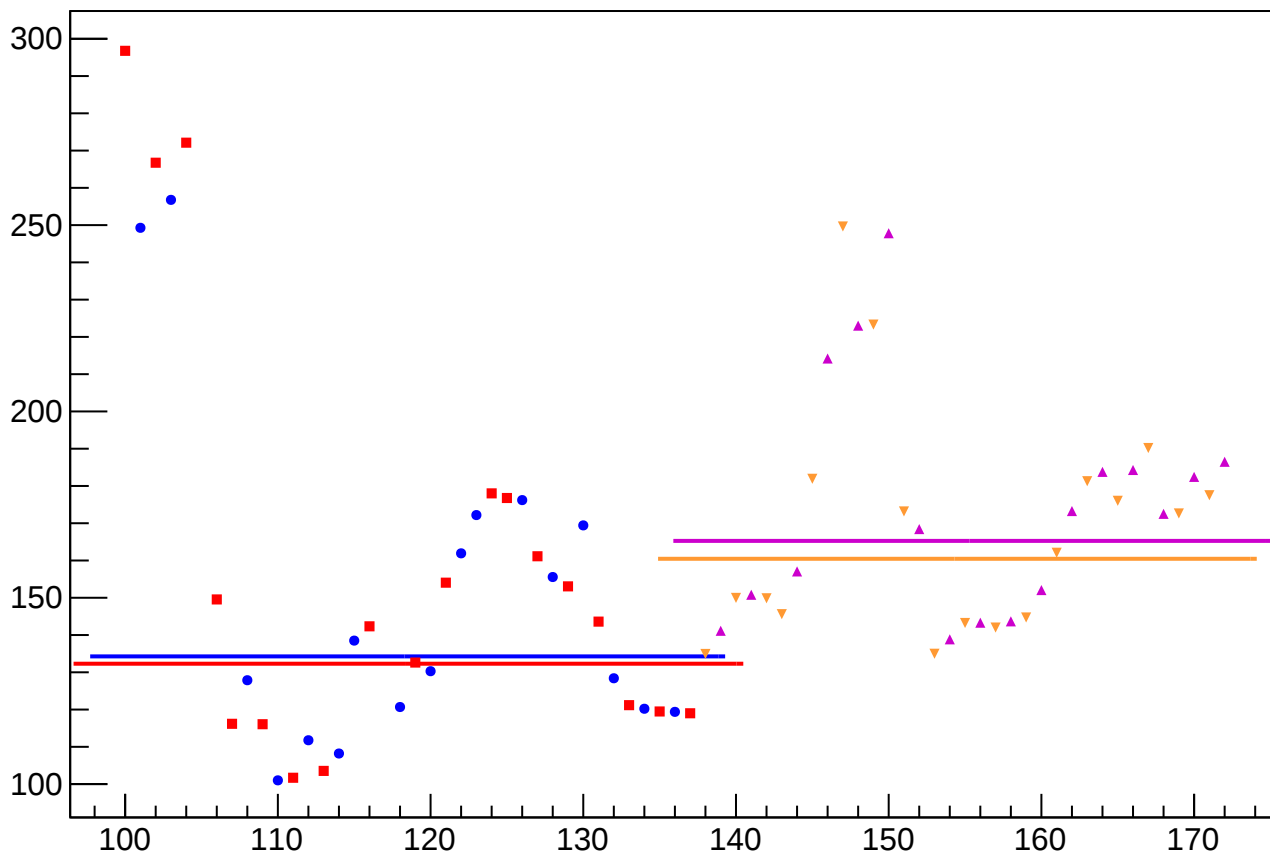
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4428.039 ± 35.411 $\chi^2/\text{NDF}: 43394.0/33$

Out: -2823.585 ± 33.954 $\chi^2/\text{NDF}: 16857.6/36$

All: -3592.109 ± 24.508 $\chi^2/\text{NDF}: 61321.2/70$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 160.459 $\pm$ 0.032 χ^2 /NDF: 645069.0/17

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 165.262 $\pm$ 0.033 χ^2 /NDF: 644633.7/16

Left: 162.761 $\pm$ 0.023 χ^2 /NDF: 1300817.3/34

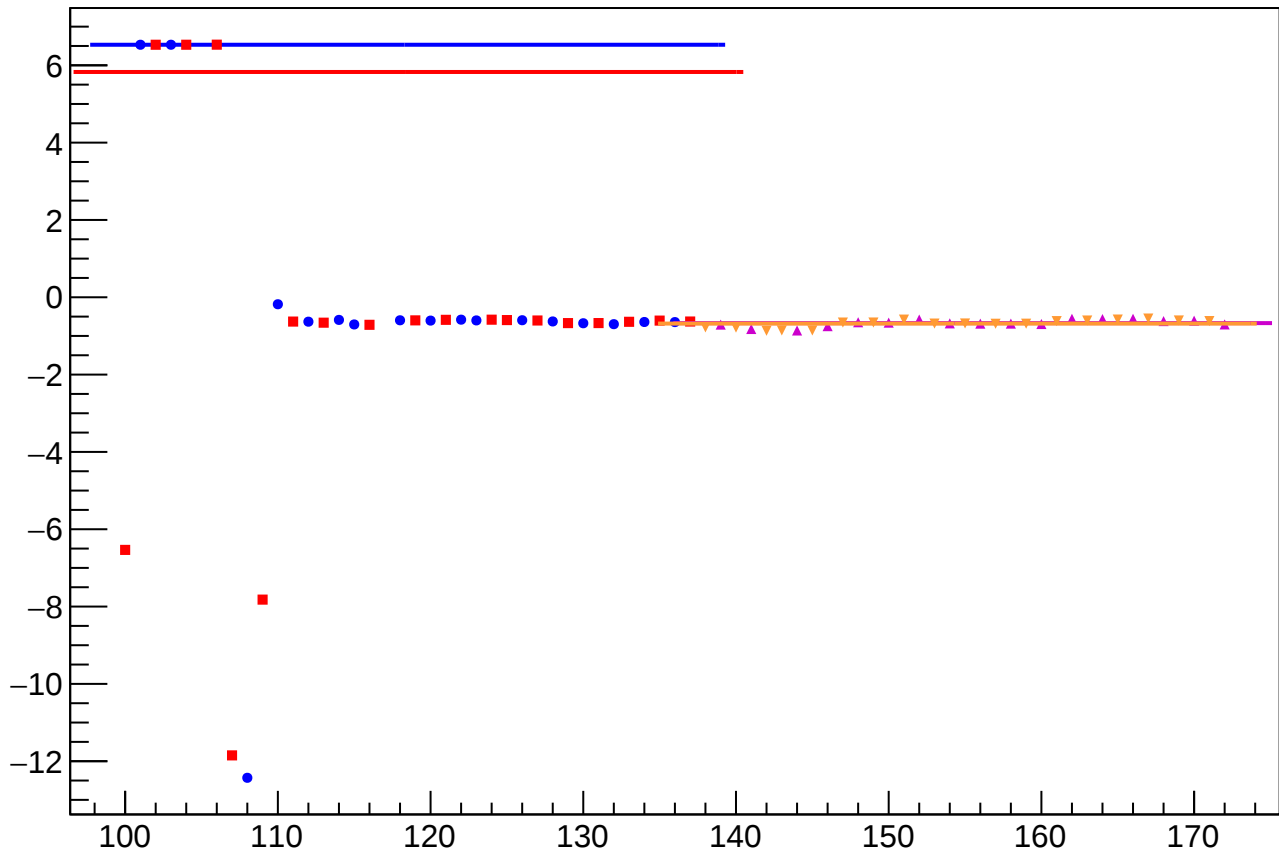
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 152.246 $\pm$ 0.025 χ^2 /NDF: 1806520.2/33

Out: 148.622 $\pm$ 0.024 χ^2 /NDF: 1850104.6/36

All: 150.358 $\pm$ 0.017 χ^2 /NDF: 3667536.0/70

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.680+/-0.000 χ^2/NDF : 127326523.5/17

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.668+/-0.000 χ^2/NDF : 97114706.8/16

Left: -0.674+/-0.000 χ^2/NDF : 225255806.8/34

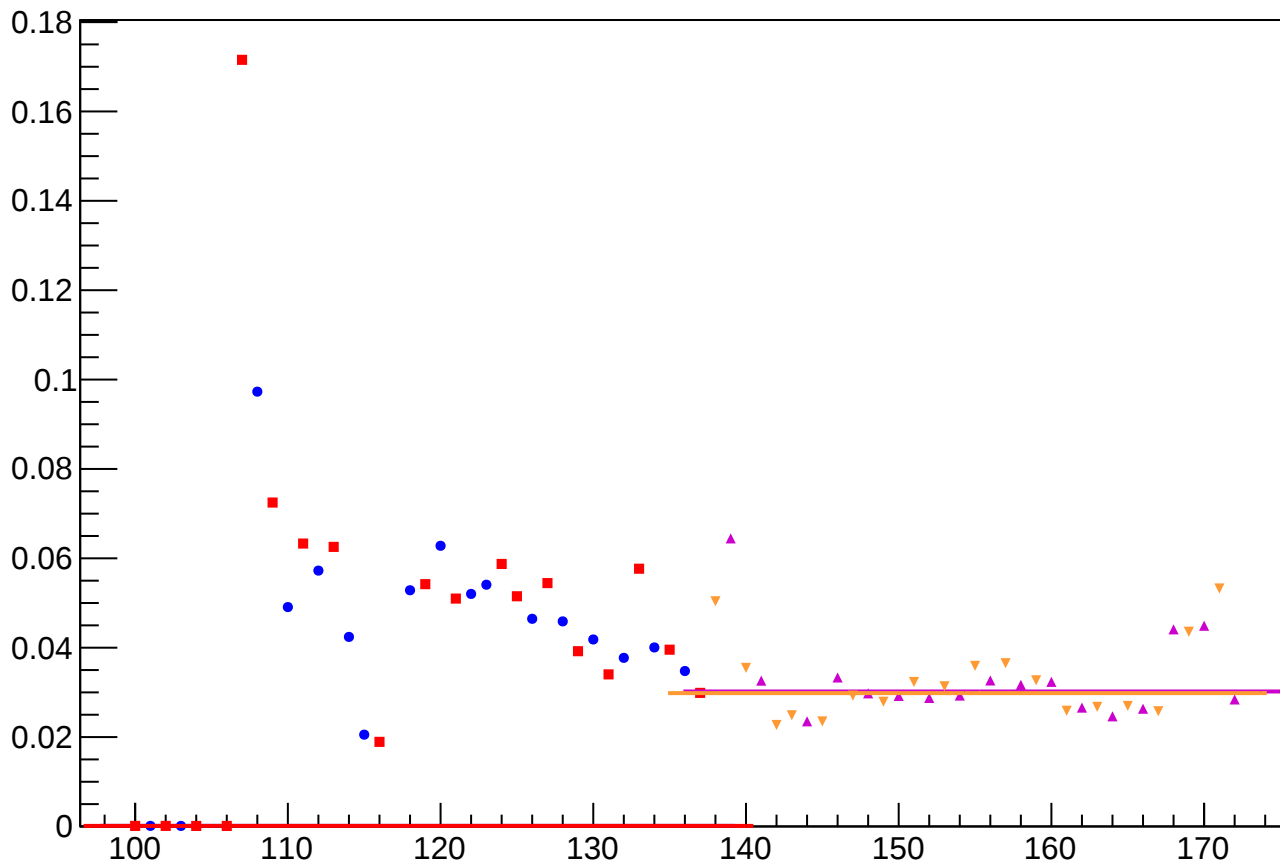
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/35

In: 6.531+/-0.000 χ^2/NDF : 713562285087.8/33

Out: 5.827+/-0.000 χ^2/NDF : 756449219892900.2/34

All: 6.154+/-0.000 χ^2/NDF : 77715796500925

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.030+/-0.000 χ^2/NDF : 1003956.7/17

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.030+/-0.000 χ^2/NDF : 886888.8/16

Left: 0.030+/-0.000 χ^2/NDF : 1892392.9/34

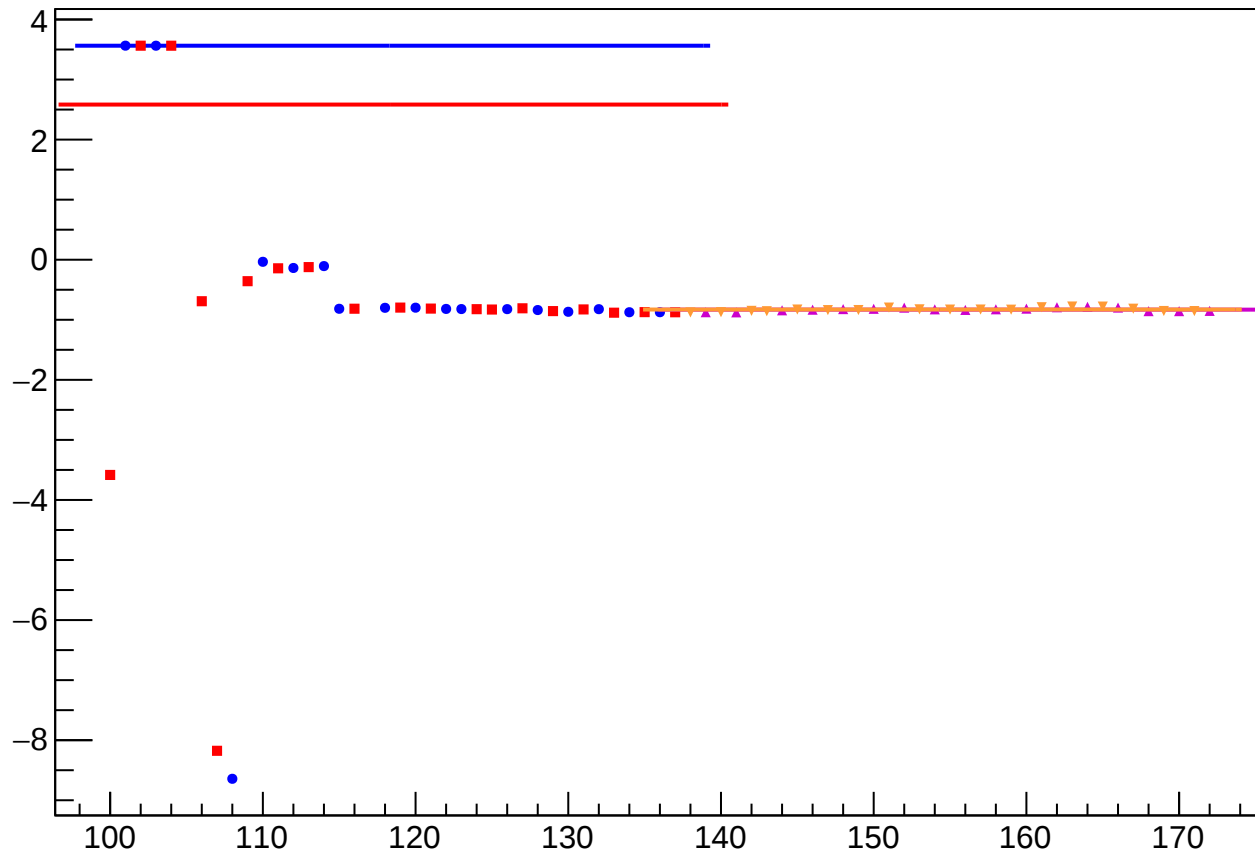
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 30355382.4/33

Out: 0.000+/-0.000 χ^2/NDF : 31246229.7/36

All: 0.000+/-0.000 χ^2/NDF : 61602008.9/70

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.829+/-0.000 χ^2/NDF : 138307637.8/17

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.831+/-0.000 χ^2/NDF : 119856666.4/16

Left: -0.830+/-0.000 χ^2/NDF : 258412812.9/34

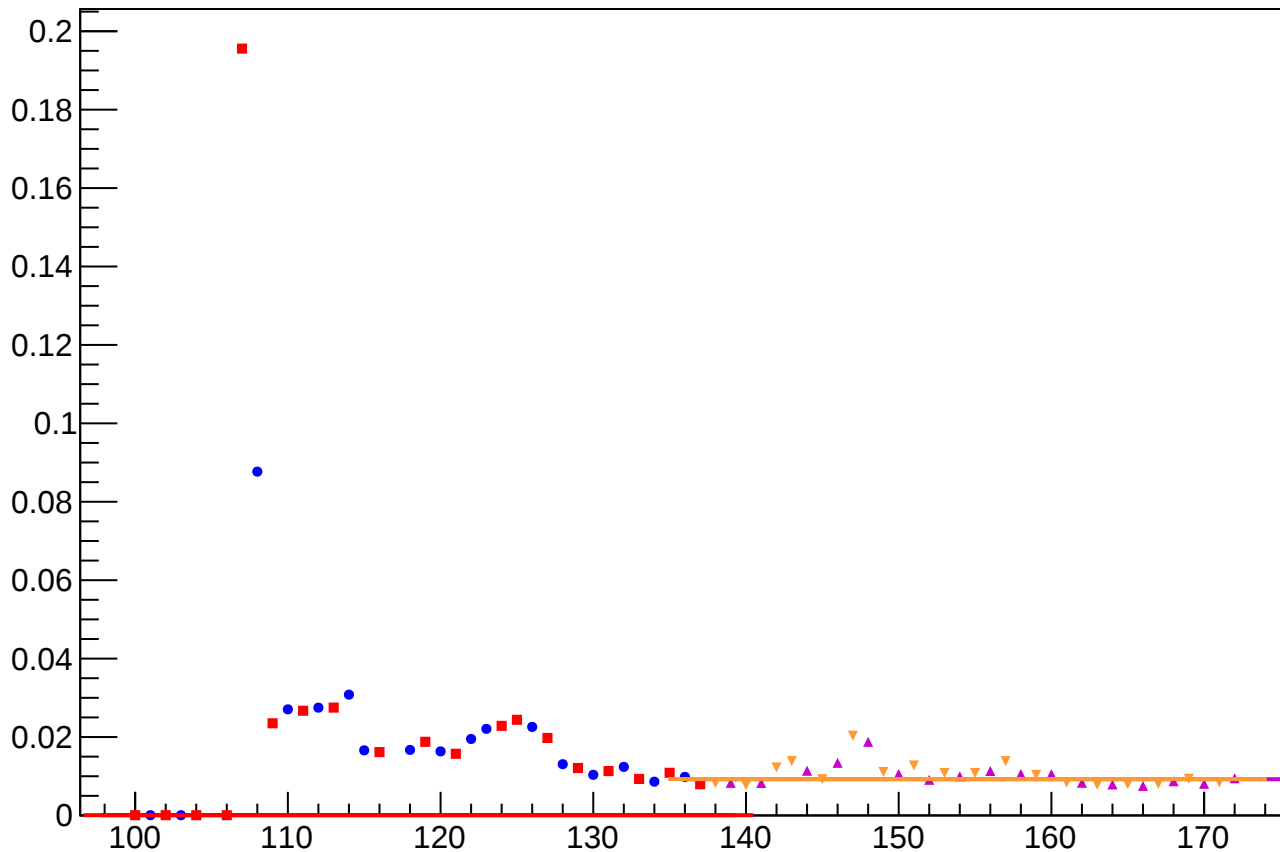
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 2901679024439.4/33

Out: 2.582+/-0.000 χ^2/NDF : 1254964068070474.0

All: 3.039+/-0.000 χ^2/NDF : 13860129749800

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 : 1076185.8/17

Right Out: 0.000 +/- 0.000 χ^2/NDF : 9880078.9/18

Left In: 0.009 +/- 0.000 χ^2/NDF : 791593.0/16

Left: 0.009 +/- 0.000 χ^2/NDF : 1867965.6/34

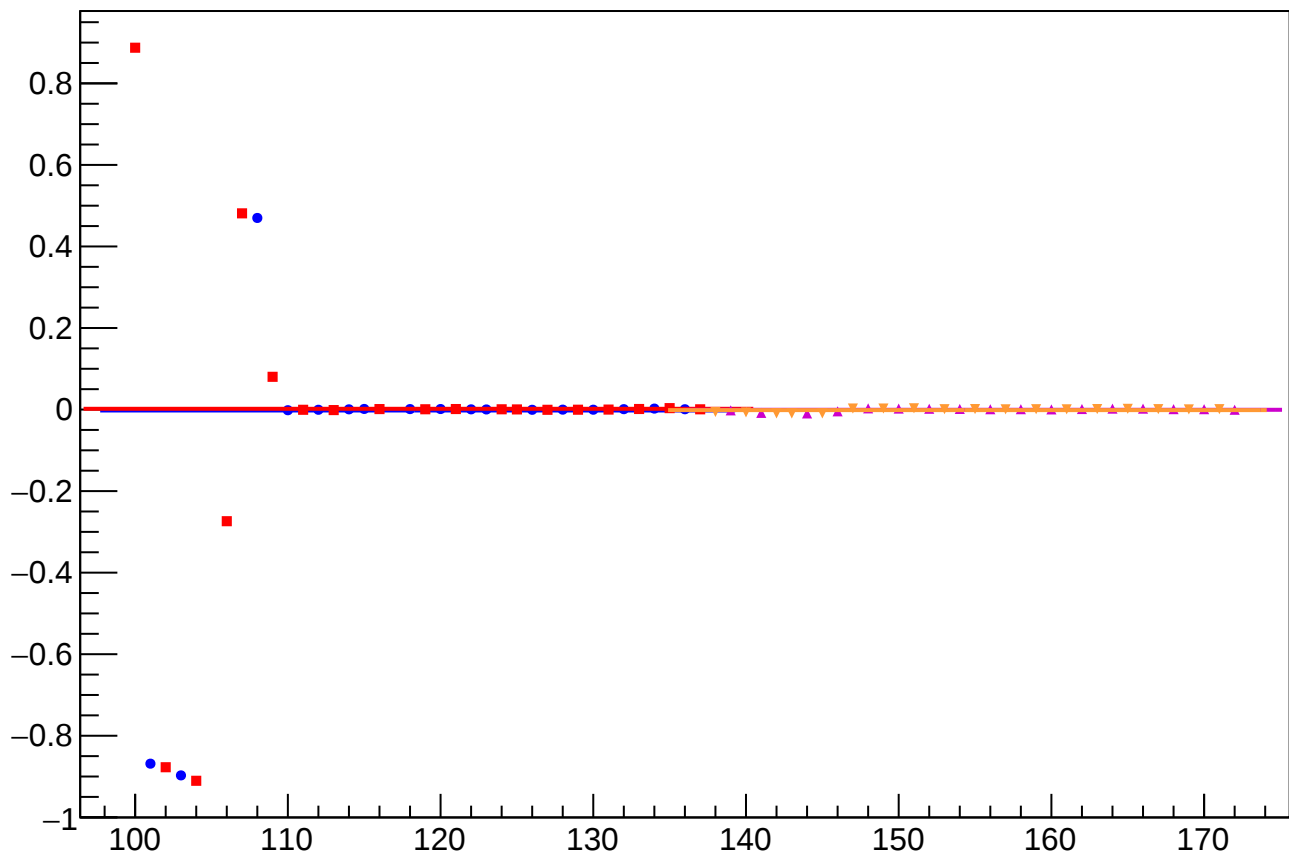
Right: 0.000 +/- 0.000 χ^2/NDF : 19728618.4/35

In: 0.000 +/- 0.000 χ^2/NDF : 31709807.5/33

Out: 0.000 +/- 0.000 χ^2/NDF : 32245080.1/36

All: 0.000 +/- 0.000 χ^2/NDF : 63955555.9/70

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.001+/-0.000 χ^2/NDF : 94613291.9/17

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: -0.001+/-0.000 χ^2/NDF : 67347968.8/16

Left: -0.001+/-0.000 χ^2/NDF : 163433771.1/34

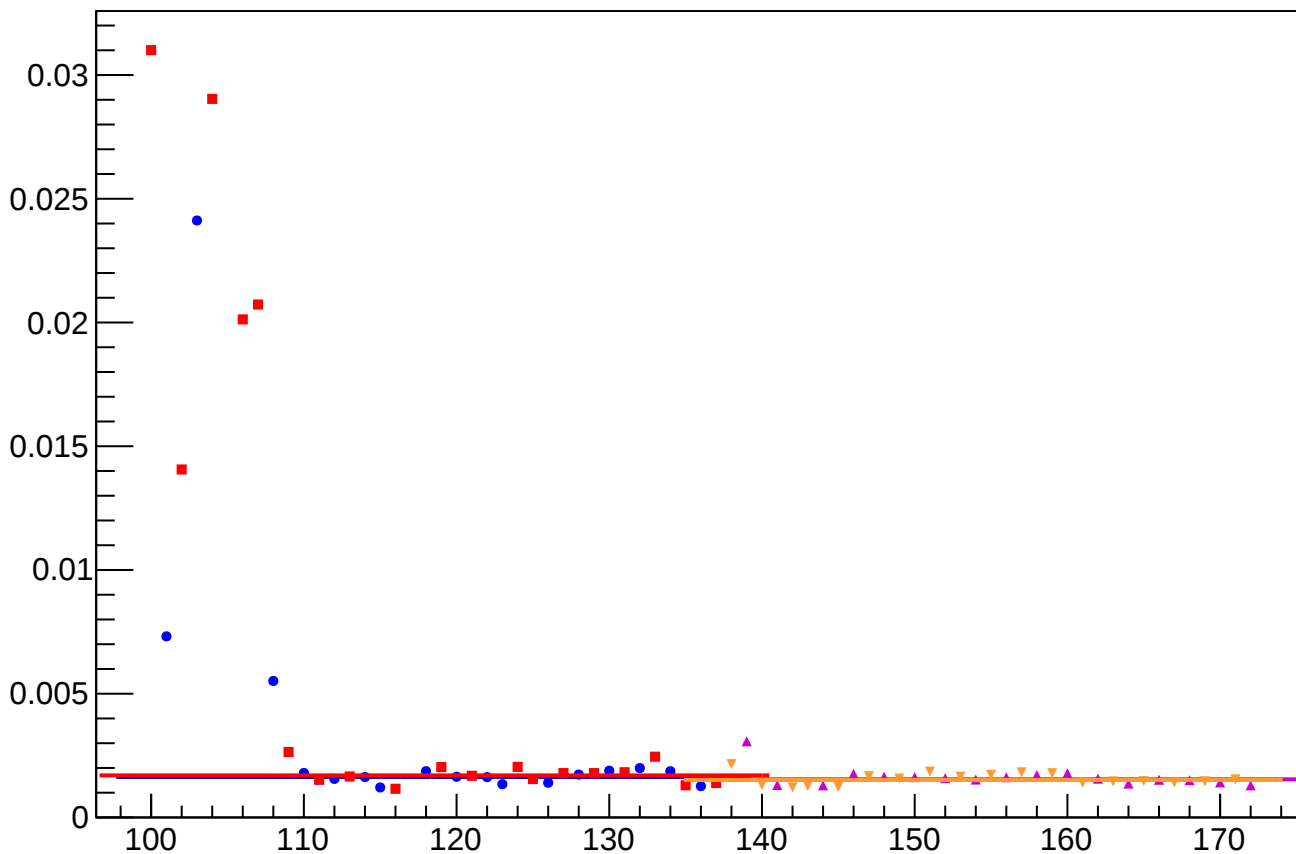
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9866325065.0/33

Out: -0.001+/-0.000 χ^2/NDF : 3148096841.8/36

All: -0.001+/-0.000 χ^2/NDF : 13015102251.9/74

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 : 430229.1/17

Right Out: 0.002 ± 0.000 χ^2/NDF : 3025332.9/18

Left In: 0.002 ± 0.000 χ^2/NDF : 554706.8/16

Left: 0.002 ± 0.000 χ^2/NDF : 987874.6/34

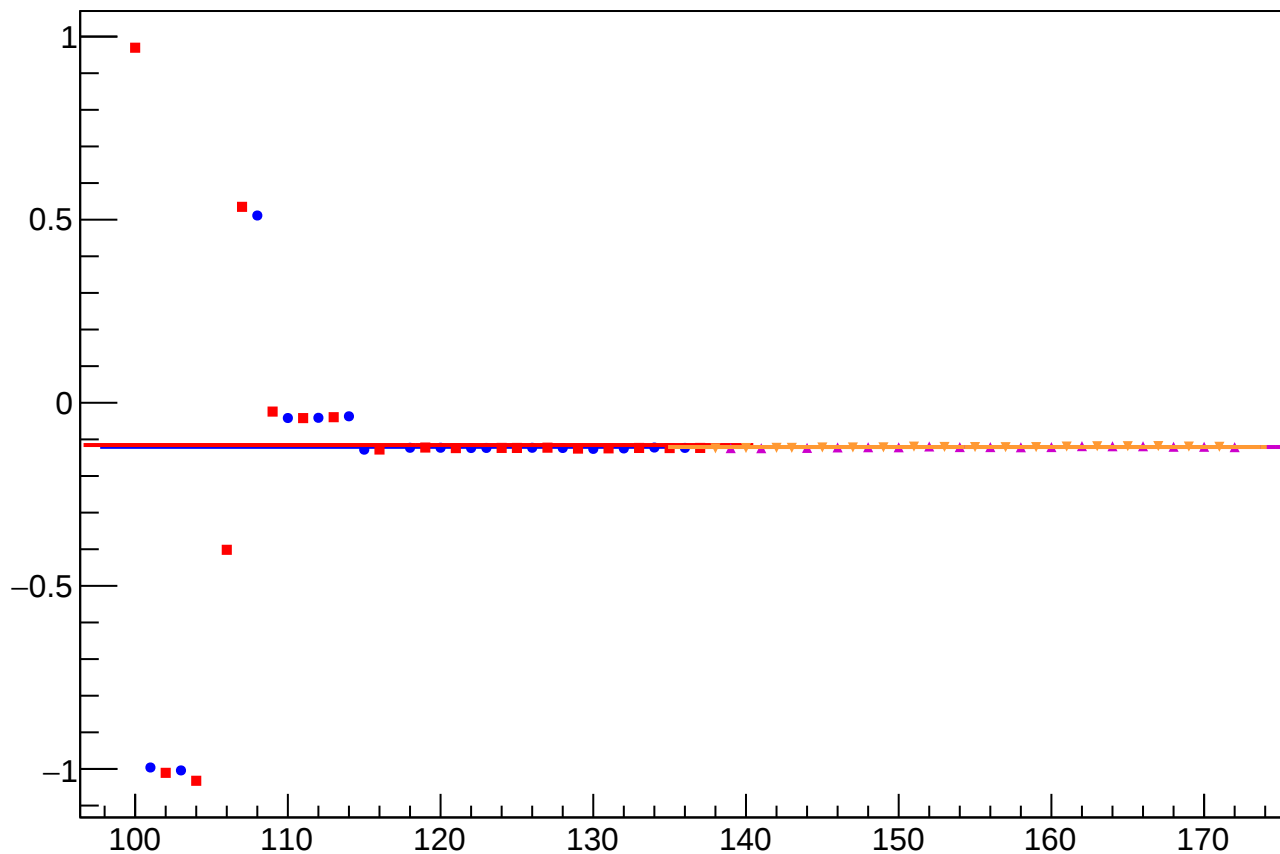
Right: 0.002 ± 0.000 χ^2/NDF : 4950980.4/35

In: 0.002 ± 0.000 χ^2/NDF : 2496237.4/33

Out: 0.002 ± 0.000 χ^2/NDF : 3534557.5/36

All: 0.002 ± 0.000 χ^2/NDF : 6031014.0/70

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 : 32074511.8/17

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 28105179.9/16

Left: -0.121+/-0.000 χ^2/NDF : 60181689.1/34

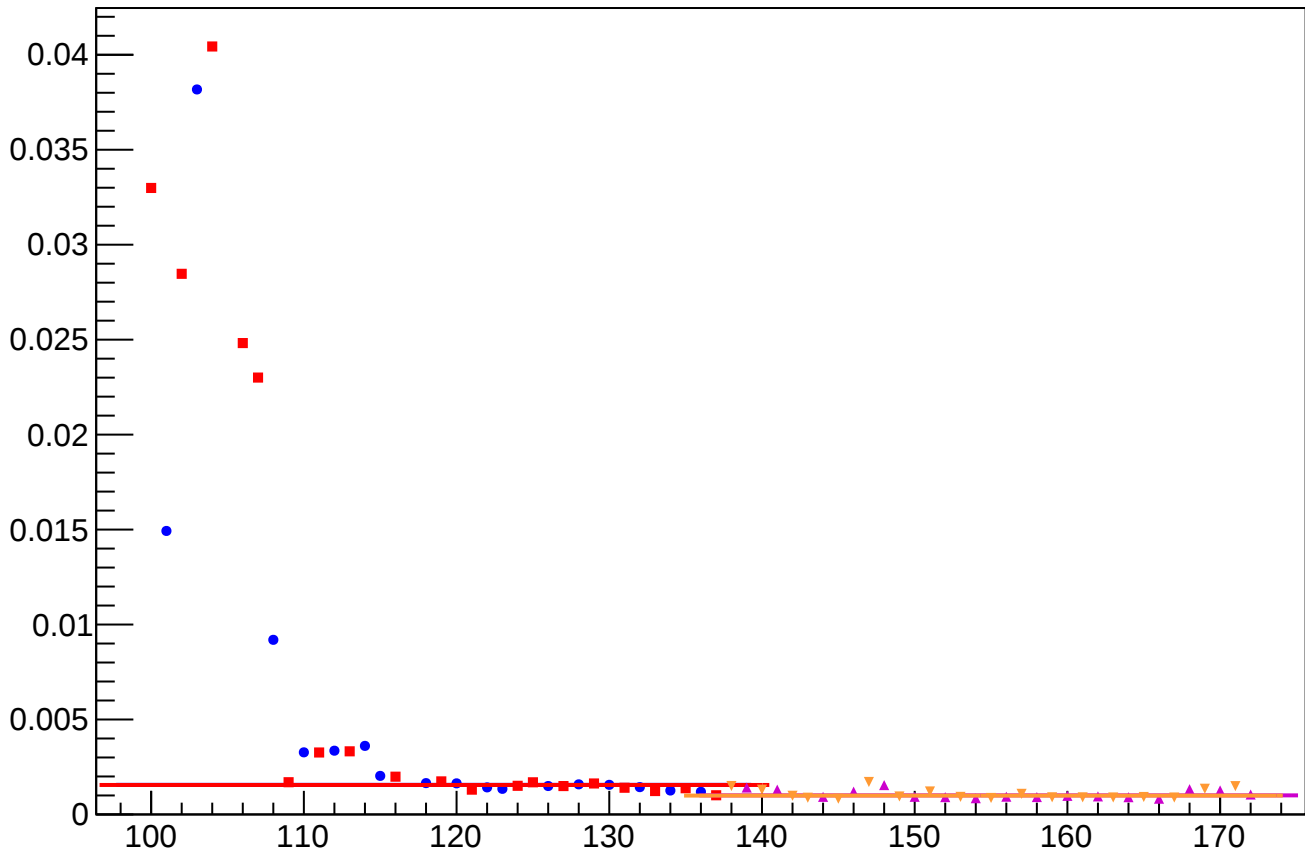
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3960812434.2/33

Out: -0.120+/-0.000 χ^2/NDF : 2537059908.6/36

All: -0.120+/-0.000 χ^2/NDF : 6500982056.5/7

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 : 1012513.6/17

Right Out: 0.002+/-0.000 χ^2/NDF : 3538622.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 736193.6/16

Left: 0.001+/-0.000 χ^2/NDF : 1750151.5/34

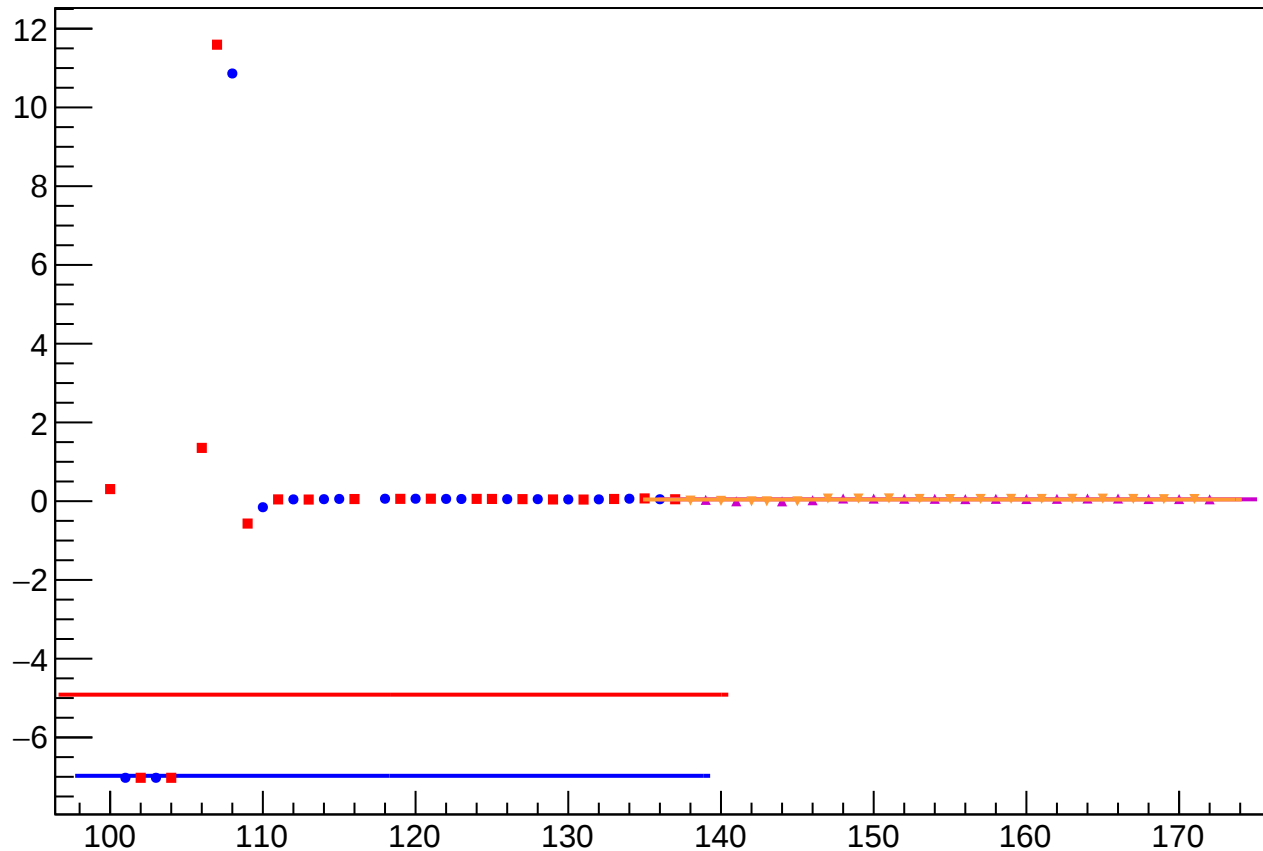
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF : 4643241.1/33

Out: 0.001+/-0.000 χ^2/NDF : 5576833.5/36

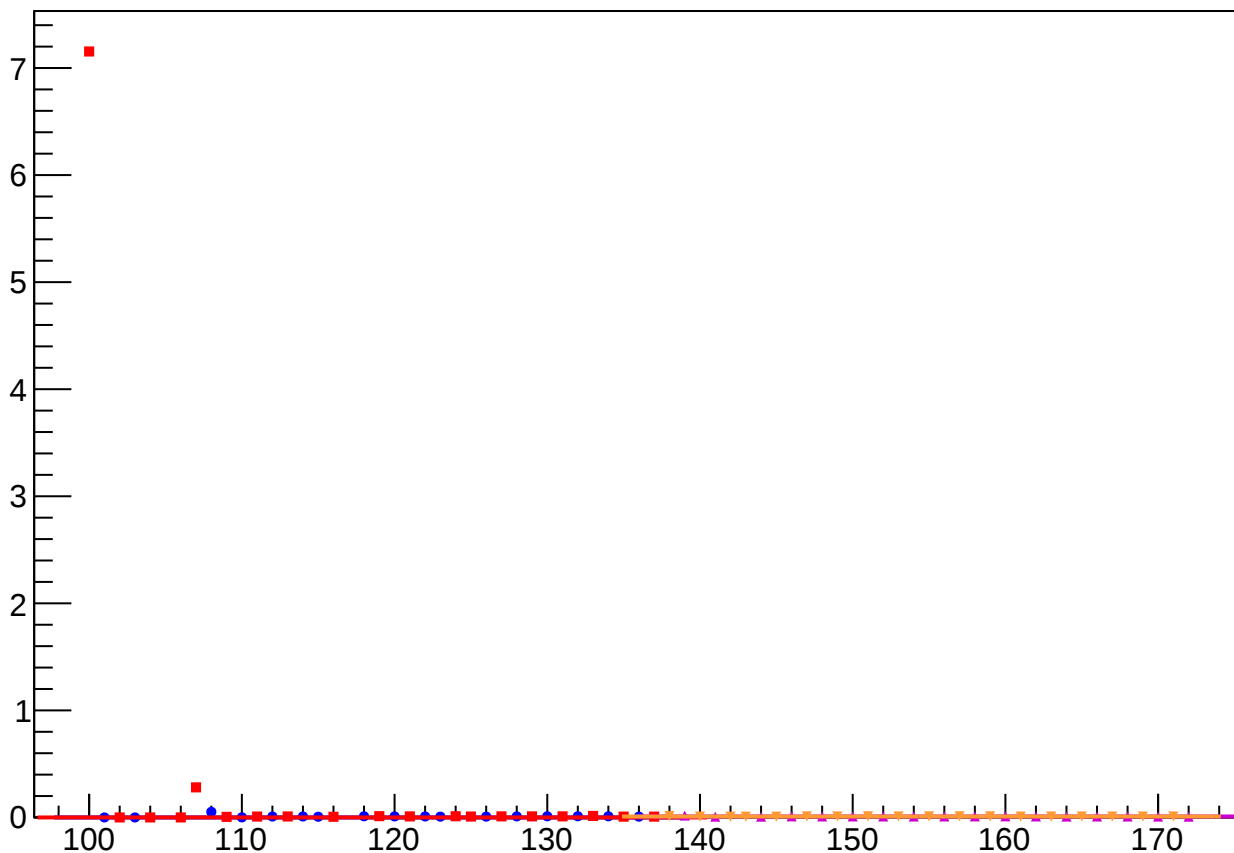
All: 0.001+/-0.000 χ^2/NDF : 10222395.3/70

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16
 Left Out: 0.043+/-0.000 χ^2/NDF : 95571541.5/17
 Right Out: -4.914+/-0.000 χ^2/NDF : 365362215369689.4/18
 Left In: 0.047+/-0.000 χ^2/NDF : 74626340.1/16
 Left: 0.045+/-0.000 χ^2/NDF : 171480409.0/34
 Right: -5.900+/-0.000 χ^2/NDF : 430340247682327.9
 In: -6.940+/-0.000 χ^2/NDF : 15067651352059.7/33
 Out: -4.890+/-0.000 χ^2/NDF : 368652489049748.6/18
 All: -5.870+/-0.000 χ^2/NDF : 4395735884835.0/34

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 :423368.6/17

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF :556690.0/16

Left: 0.009+/-0.000 χ^2/NDF : 982576.8/34

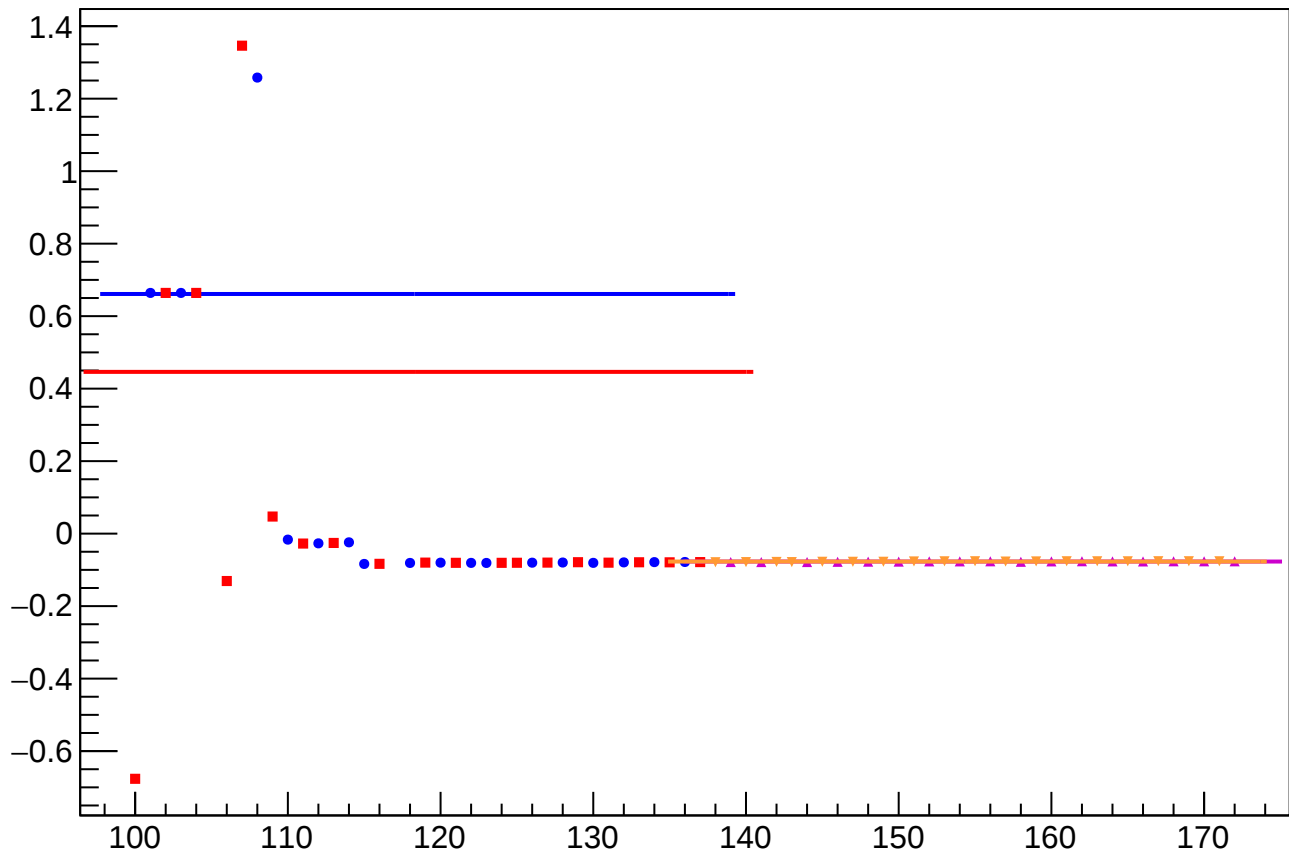
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF :29115527.7/33

Out: 0.000+/-0.000 χ^2/NDF :29824665.5/36

All: 0.000+/-0.000 χ^2/NDF : 58941082.5/70

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 : 57875467.3/34

Left Out: -0.077+/-0.000

χ^2/NDF : 33531667.1/17

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.650+/-0.000

χ^2/NDF : 26855696028360.8/33

Out: 0.439+/-0.000

χ^2/NDF : 416224175262078.7/33

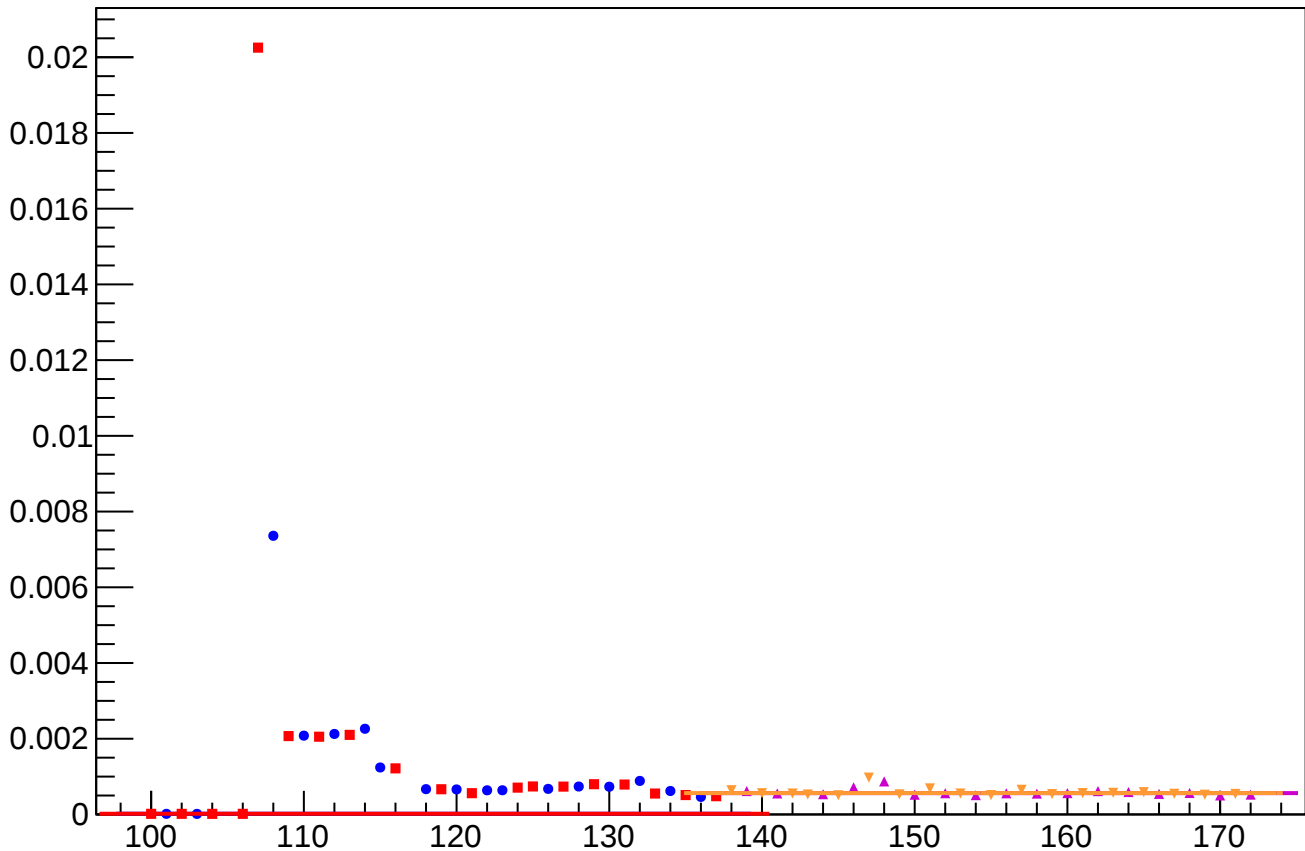
Left In: -0.077+/-0.000

χ^2/NDF : 24341452.6/16

All: 0.540+/-0.000

χ^2/NDF : 50468321882074

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 : 426088.5/17

Right Out: 0.000+/-0.000

χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000

χ^2/NDF : 351530.1/16

Left: 0.001+/-0.000

χ^2/NDF : 777641.9/34

Right: 0.000+/-0.000

χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000

χ^2/NDF : 33460105.8/33

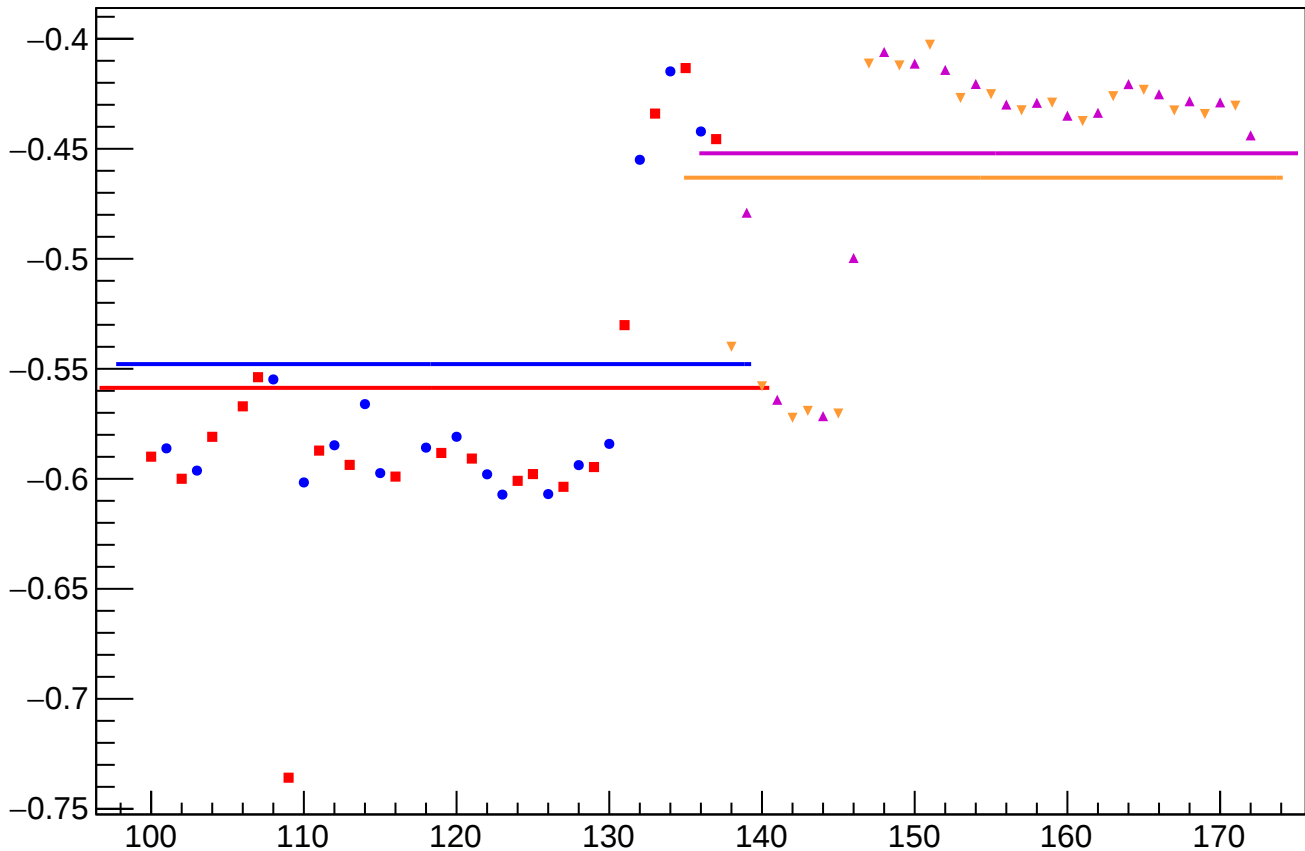
Out: 0.000+/-0.000

χ^2/NDF : 33446170.5/36

All: 0.000+/-0.000

χ^2/NDF : 66907493.8/70

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.463+/-0.000 χ^2/NDF : 105722575.7/17

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.452+/-0.000 χ^2/NDF : 75219193.1/16

Left: -0.458+/-0.000 χ^2/NDF : 182584770.1/34

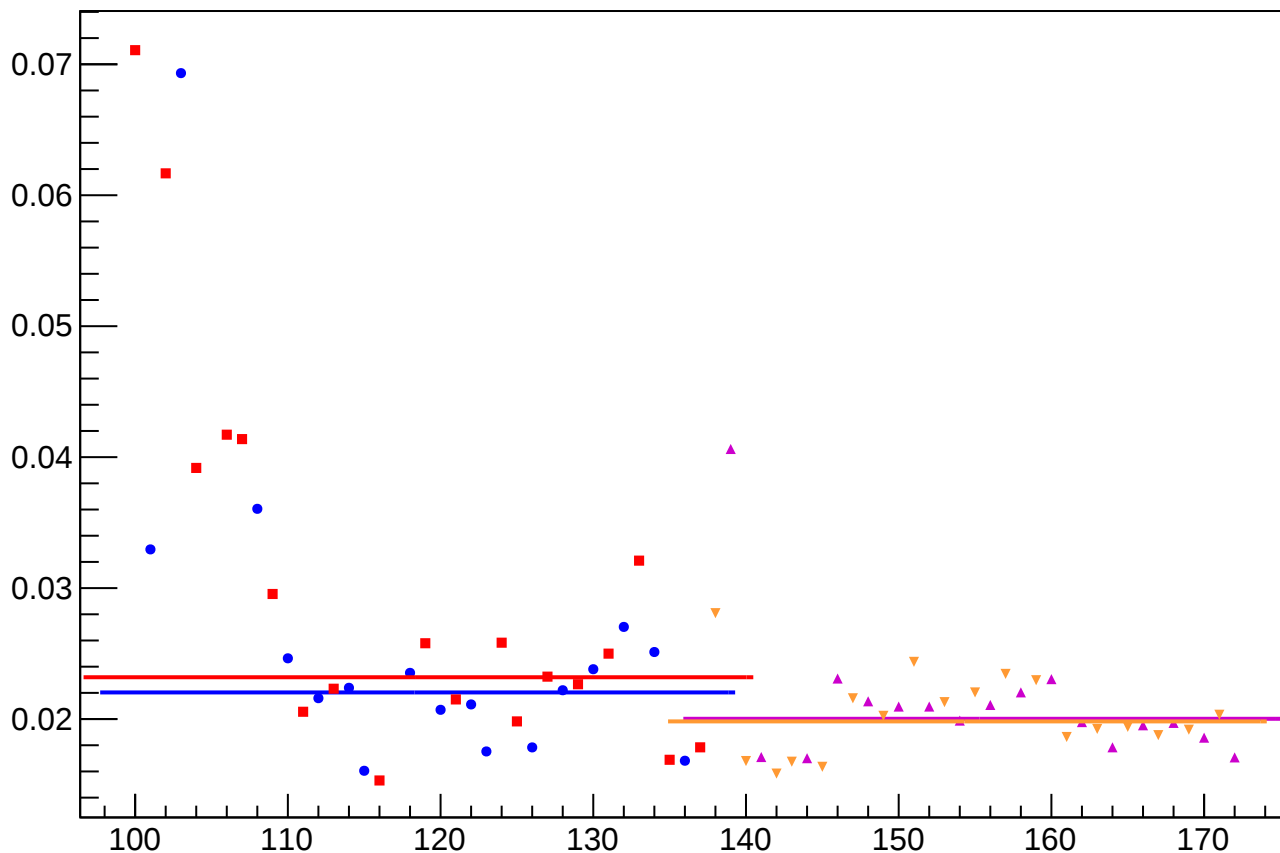
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.479+/-0.000 χ^2/NDF : 192736487.8/33

Out: -0.489+/-0.000 χ^2/NDF : 237792956.4/36

All: -0.484+/-0.000 χ^2/NDF : 432068909.5/70

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020 $\pm$ 0.000 χ^2/NDF : 399823.6/17

Right Out: 0.023 $\pm$ 0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020 $\pm$ 0.000 χ^2/NDF : 547578.8/16

Left: 0.020 $\pm$ 0.000 χ^2/NDF : 948462.8/34

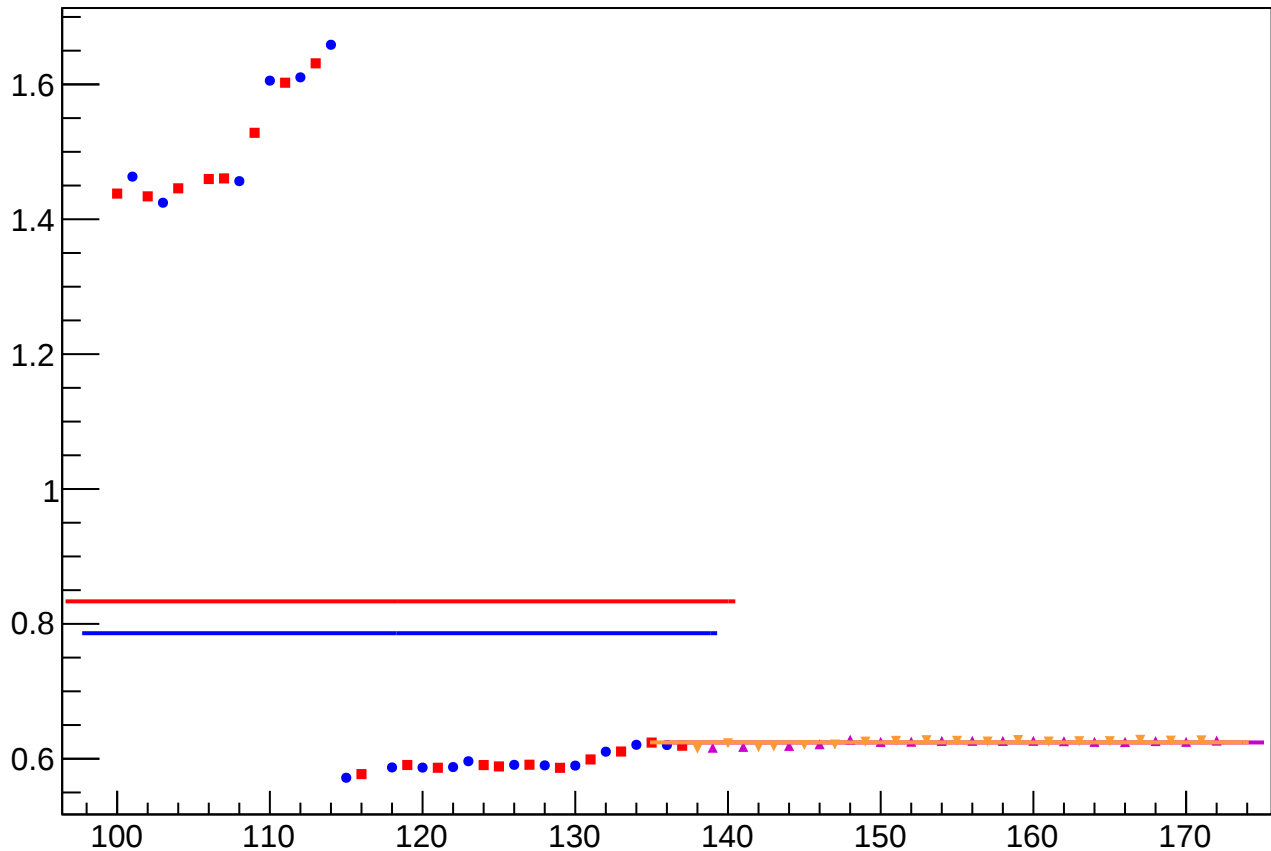
Right: 0.023 $\pm$ 0.000 χ^2/NDF : 2129689.2/35

In: 0.021 $\pm$ 0.000 χ^2/NDF : 1567380.6/33

Out: 0.021 $\pm$ 0.000 χ^2/NDF : 1722195.7/36

All: 0.021 $\pm$ 0.000 χ^2/NDF : 3290140.7/70

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 :1234905.5/17

Right Out: 0.833 $\pm$ 0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.624 $\pm$ 0.000 χ^2/NDF :967896.7/16

Left: 0.624 $\pm$ 0.000 χ^2/NDF : 2203576.7/34

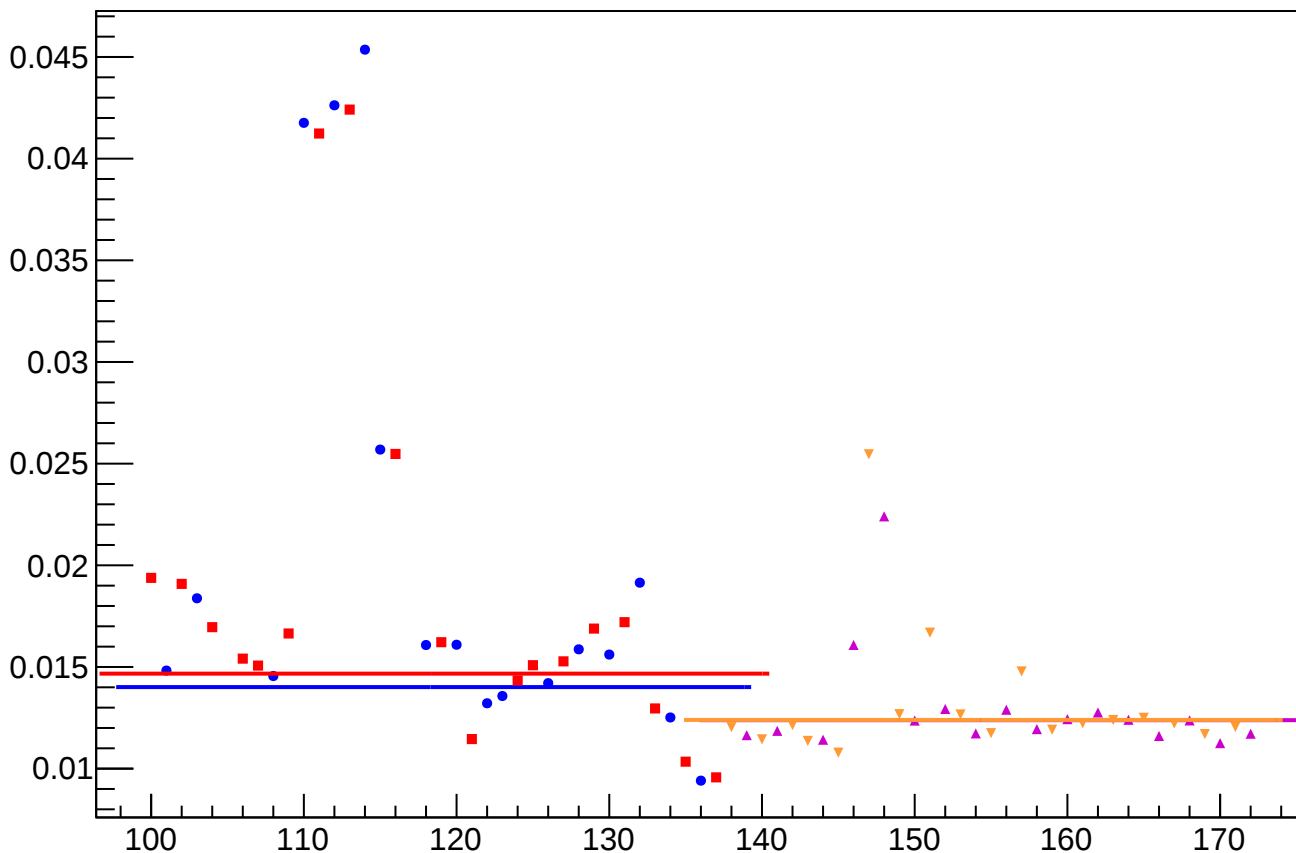
Right: 0.809 $\pm$ 0.000 χ^2/NDF : 7778629767.1/35

In: 0.666 $\pm$ 0.000 χ^2/NDF :4152829631.0/33

Out: 0.677 $\pm$ 0.000 χ^2/NDF :5072068732.8/36

All: 0.672 $\pm$ 0.000 χ^2/NDF : 9231140329.8/70

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 :596866.7/17

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.012+/-0.000 χ^2/NDF :440449.5/16

Left: 0.012+/-0.000 χ^2/NDF : 1037327.9/34

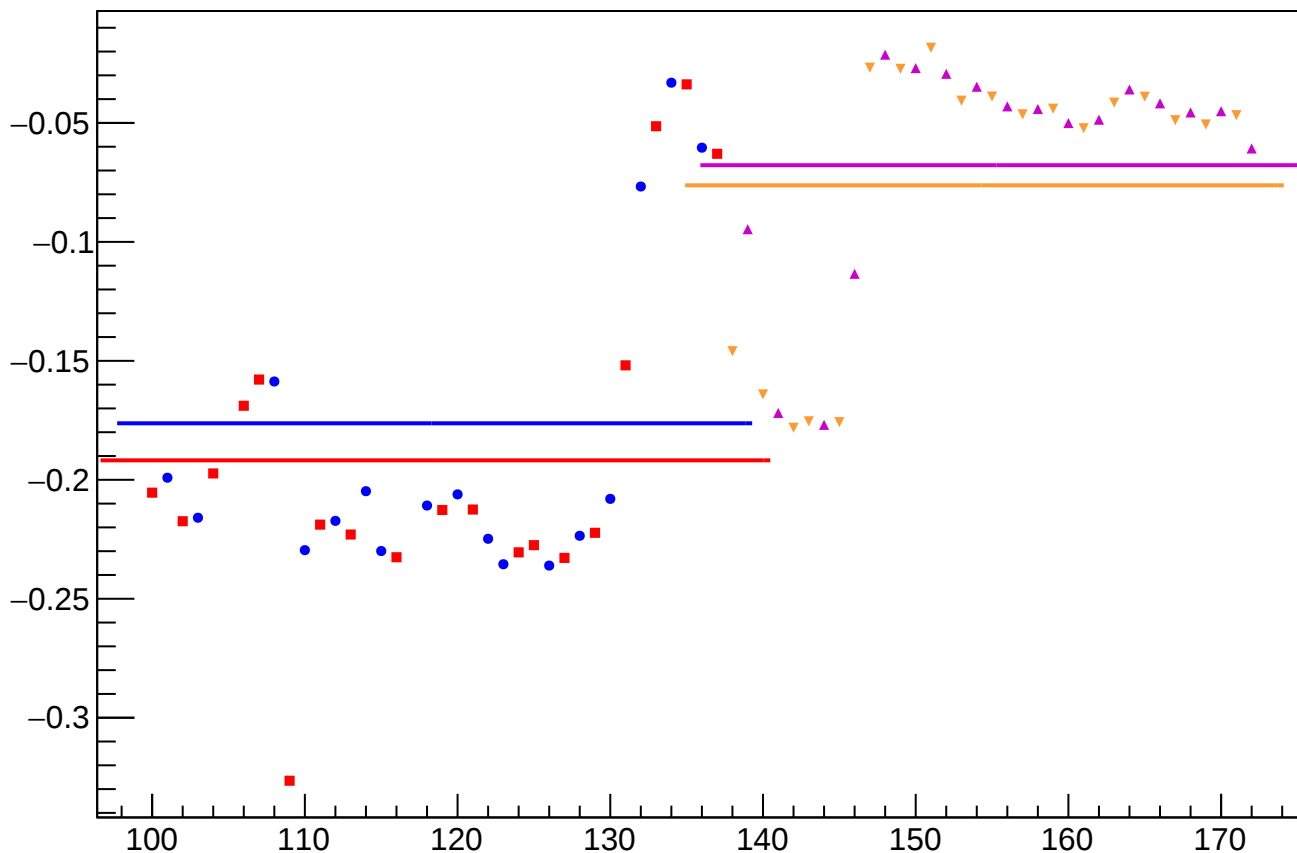
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1958581.5/33

Out: 0.013+/-0.000 χ^2/NDF :2076998.1/36

All: 0.013+/-0.000 χ^2/NDF : 4038476.5/70

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.076+/-0.000 χ^2/NDF : 100764638.4/17

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.068+/-0.000 χ^2/NDF : 75579899.4/16

Left: -0.072+/-0.000 χ^2/NDF : 177374975.9/34

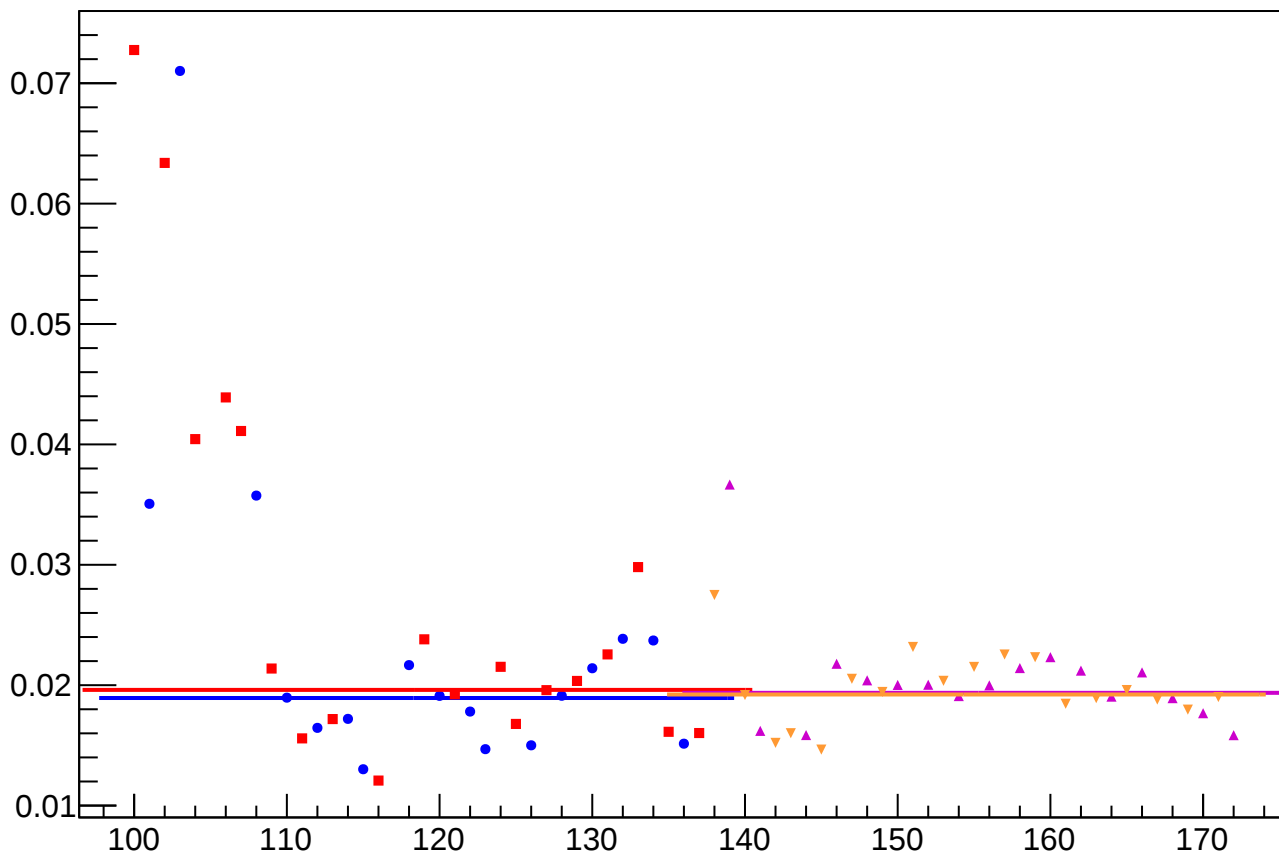
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.104+/-0.000 χ^2/NDF : 255827036.1/33

Out: -0.113+/-0.000 χ^2/NDF : 308271512.8/36

All: -0.108+/-0.000 χ^2/NDF : 565832805.2/70

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 : 425831.2/17

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 550084.5/16

Left: 0.019+/-0.000 χ^2/NDF : 976462.7/34

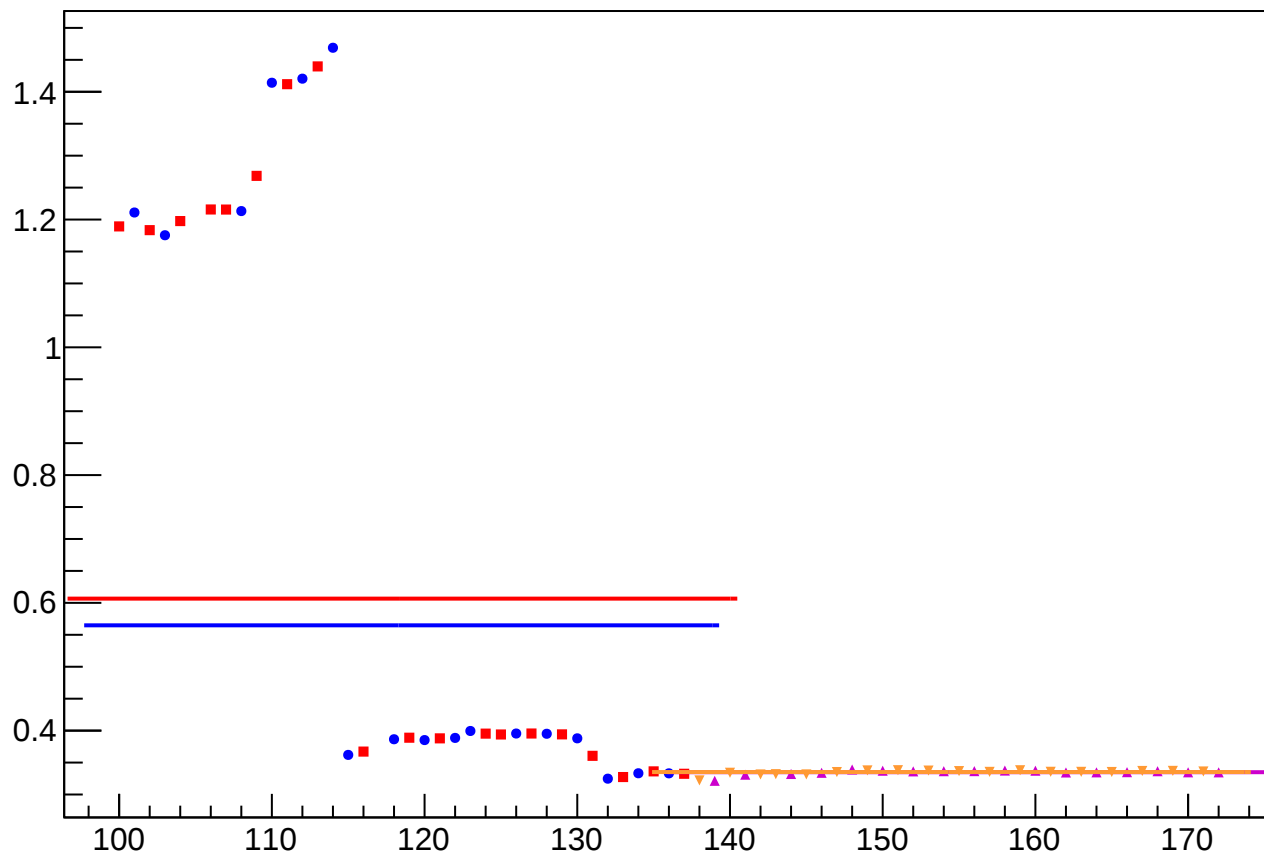
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1759395.2/33

Out: 0.019+/-0.000 χ^2/NDF : 1886195.7/36

All: 0.019+/-0.000 χ^2/NDF : 3646251.1/70

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 : 2304904.4/34

Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

Left Out: 0.335+/-0.000

χ^2/NDF : 1130368.4/17

In: 0.397+/-0.000 χ^2/NDF : 6511096101.7/33

Right Out: 0.607+/-0.000

χ^2/NDF : 5513752213.8/18

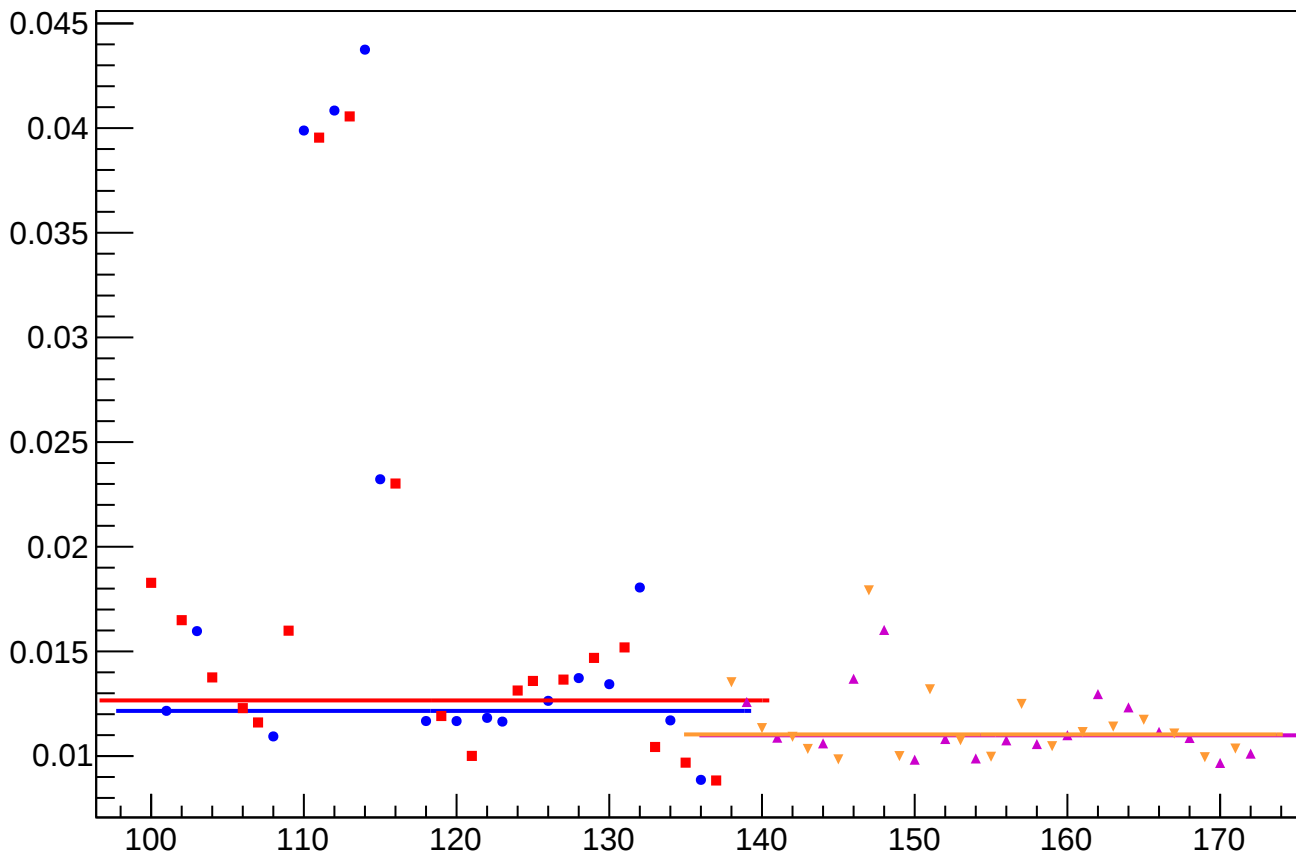
Out: 0.406+/-0.000 χ^2/NDF : 7520128817.9/36

Left In: 0.335+/-0.000

χ^2/NDF : 1171758.5/16

All: 0.401+/-0.000 χ^2/NDF : 14036656122.9/71

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 : 427459.9/17

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 1270689.5/18

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 368049.1/16

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 795705.4/34

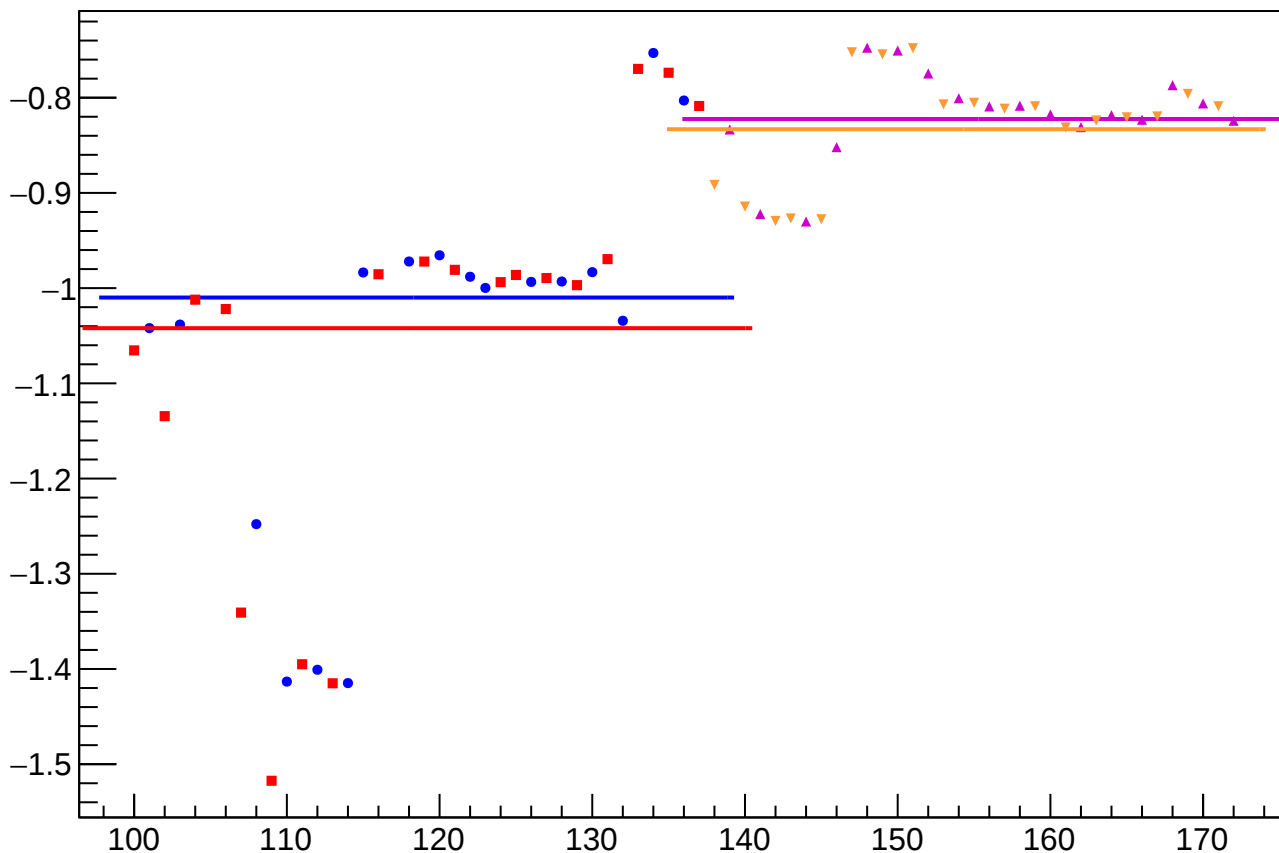
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2/NDF : 1754127.4/33

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 1841687.7/36

All: 0.011 $\pm$ 0.000 χ^2/NDF : 3599034.8/70

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010+/-0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.833+/-0.000 χ^2/NDF : 97577348.2/17

Right Out: -1.042+/-0.000 χ^2/NDF : 530106141.8/18

Left In: -0.822+/-0.000 χ^2/NDF : 73592597.4/16

Left: -0.828+/-0.000 χ^2/NDF : 172791607.7/34

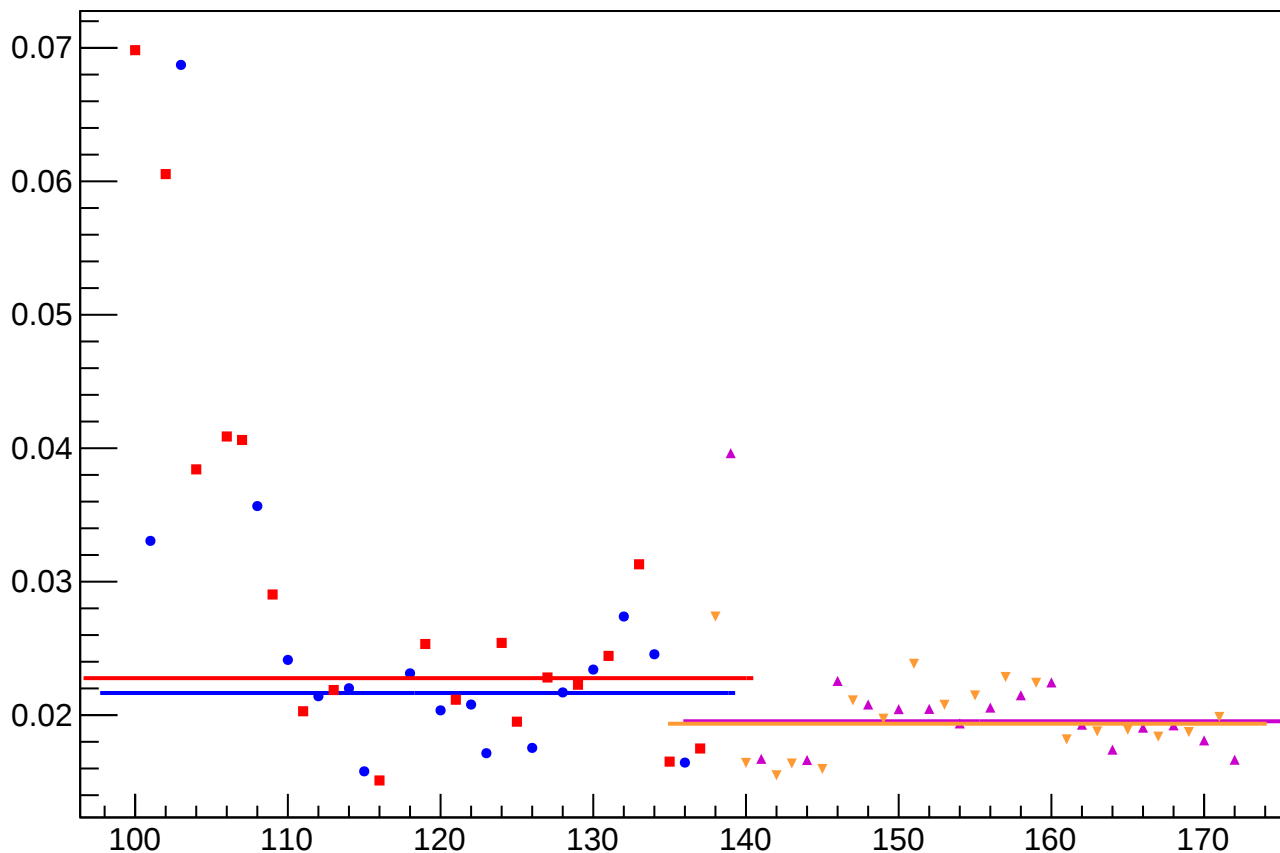
Right: -1.026+/-0.000 χ^2/NDF : 923225272.3/35

In: -0.875+/-0.000 χ^2/NDF : 735287864.1/33

Out: -0.888+/-0.000 χ^2/NDF : 957663828.2/36

All: -0.882+/-0.000 χ^2/NDF : 1696148193.6/7

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 : 397530.0/17

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.020+/-0.000 χ^2/NDF : 545010.5/16

Left: 0.019+/-0.000 χ^2/NDF : 943481.2/34

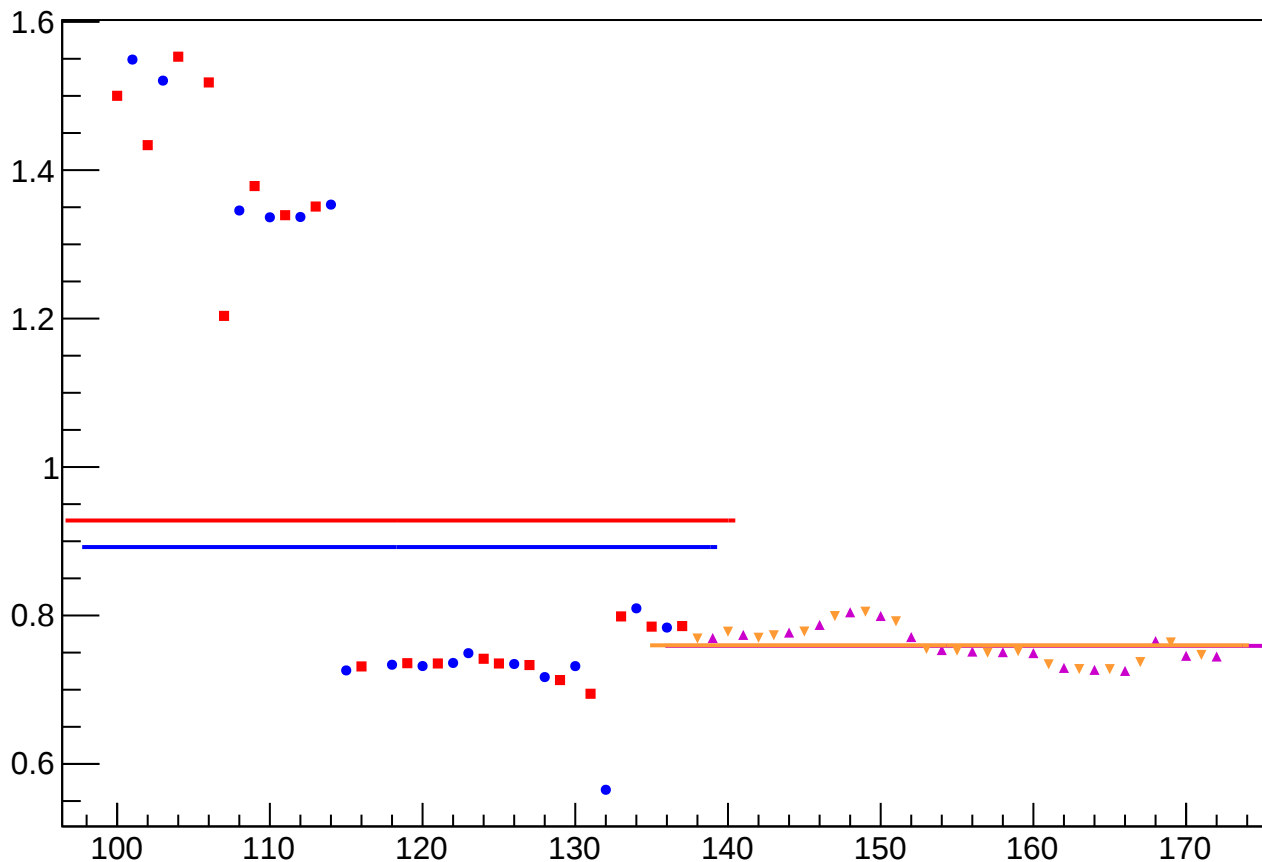
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1598562.6/33

Out: 0.020+/-0.000 χ^2/NDF : 1726419.0/36

All: 0.020+/-0.000 χ^2/NDF : 3325525.3/70

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 :37018973.0/17

Right Out: 0.928 $\pm$ 0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.759 $\pm$ 0.000 χ^2/NDF :34998553.0/16

Left: 0.759 $\pm$ 0.000 χ^2/NDF : 72040039.8/34

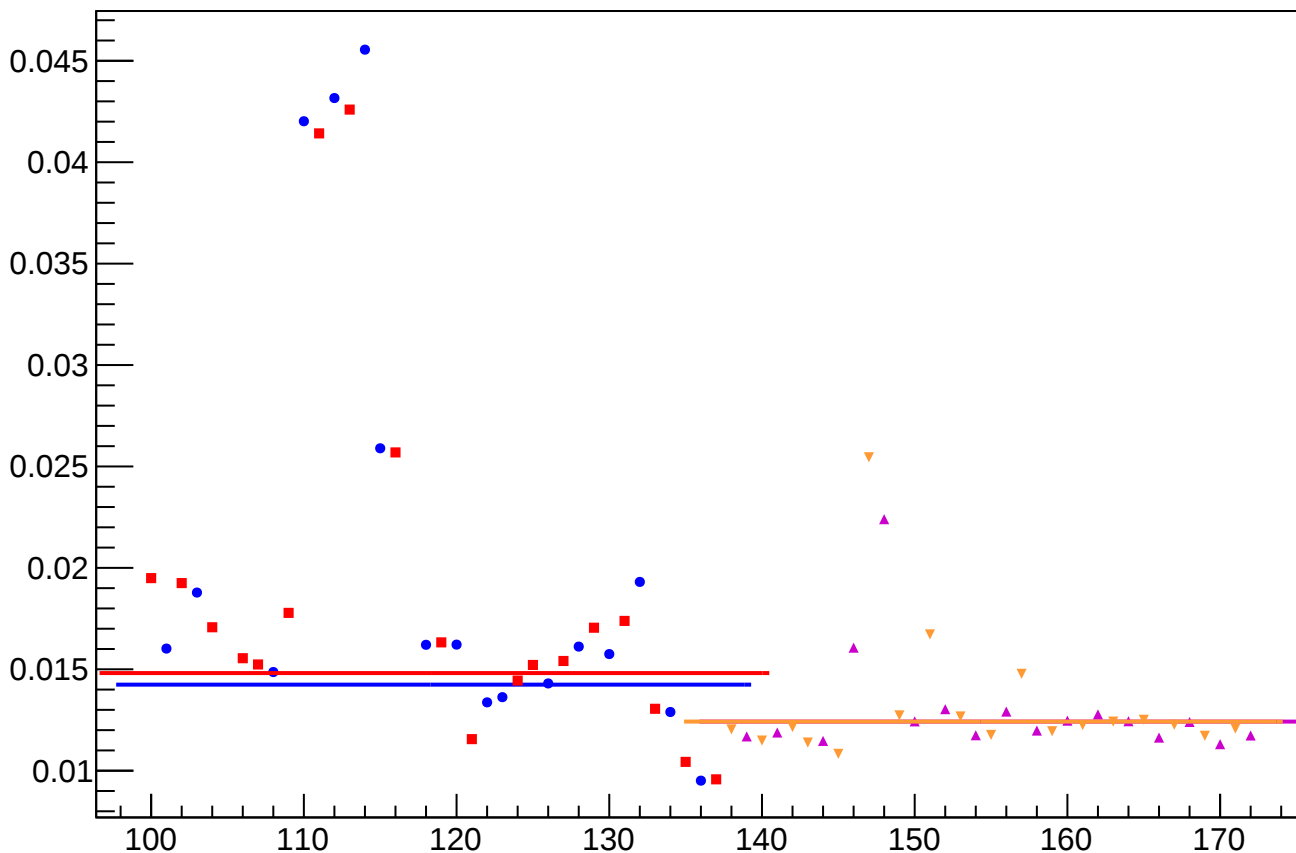
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.793 $\pm$ 0.000 χ^2/NDF :2816672626.0/33

Out: 0.802 $\pm$ 0.000 χ^2/NDF :3054798530.4/36

All: 0.797 $\pm$ 0.000 χ^2/NDF : 5875577963.1/70

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 592259.3/17

Right Out: 0.015+/-0.000 χ^2/NDF : 1274172.7/18

Left In: 0.012+/-0.000 χ^2/NDF : 435988.2/16

Left: 0.012+/-0.000 χ^2/NDF : 1028247.6/34

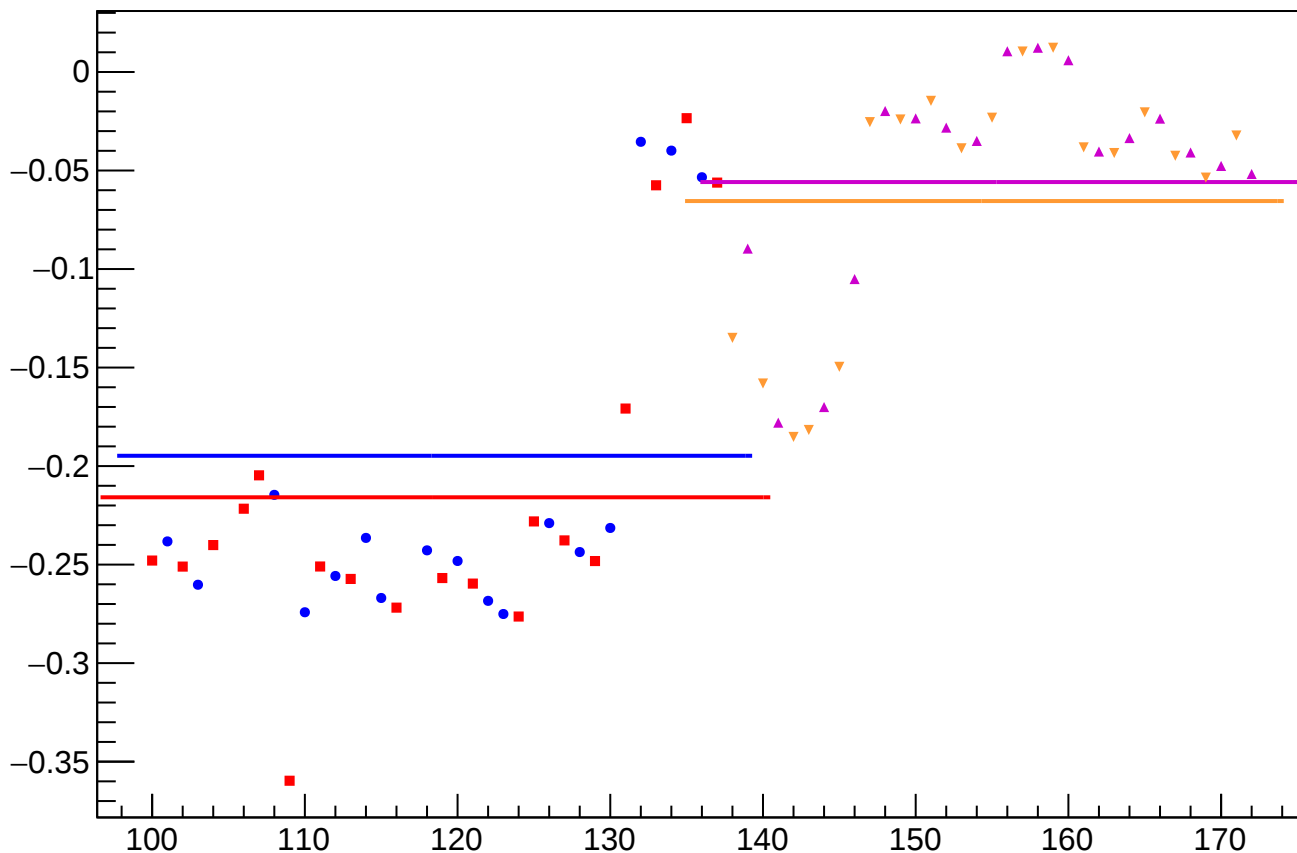
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF : 1989465.5/33

Out: 0.013+/-0.000 χ^2/NDF : 2101086.6/36

All: 0.013+/-0.000 χ^2/NDF : 4092463.3/70

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.065+/-0.000 χ^2/NDF : 117050300.7/17

Right Out: -0.216+/-0.000 χ^2/NDF : 111983904.6/18

Left In: -0.056+/-0.000 χ^2/NDF : 97434804.8/16

Left: -0.061+/-0.000 χ^2/NDF : 215829950.3/34

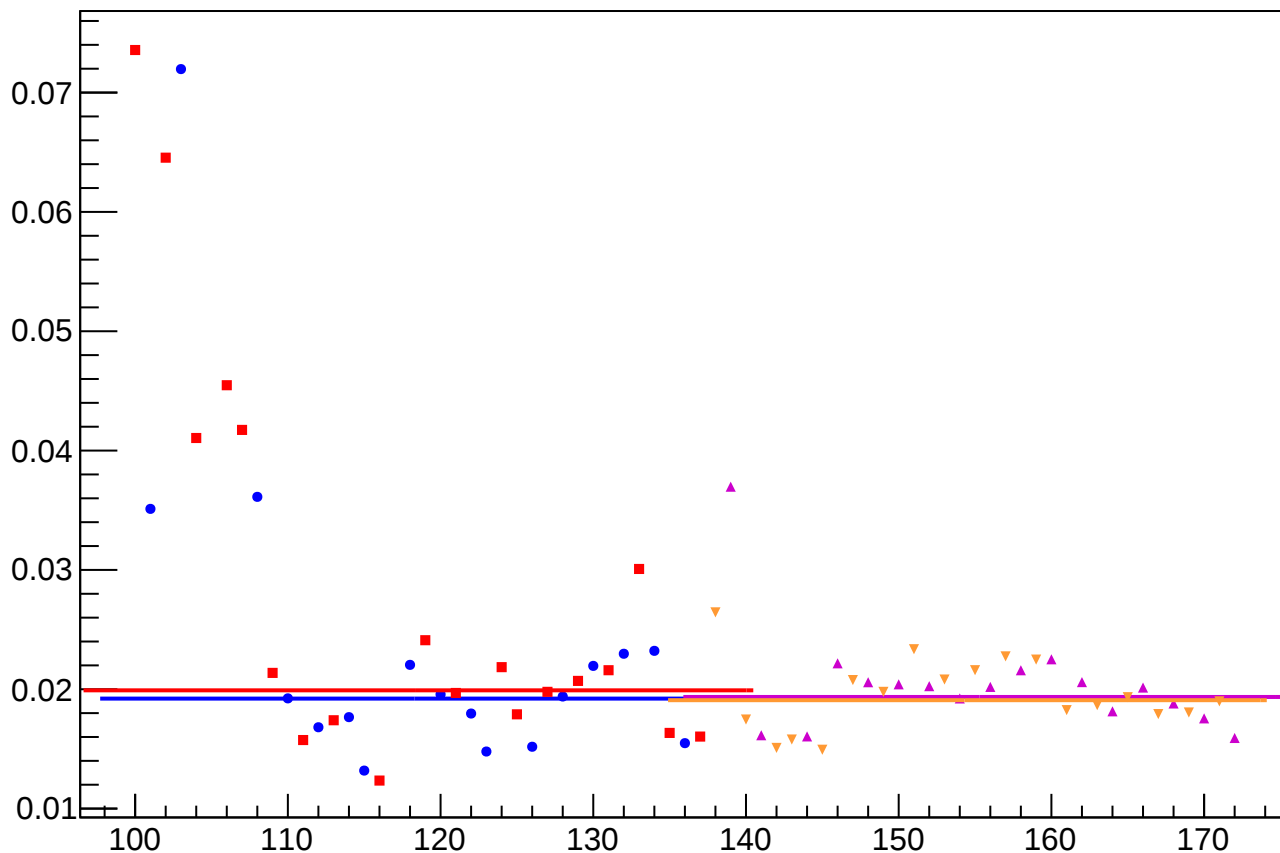
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.101+/-0.000 χ^2/NDF : 383008803.1/33

Out: -0.112+/-0.000 χ^2/NDF : 434211592.9/36

All: -0.106+/-0.000 χ^2/NDF : 819554204.4/70

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1177085.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 431717.4/17

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.019+/-0.000 χ^2/NDF : 558070.3/16

Left: 0.019+/-0.000 χ^2/NDF : 991896.1/34

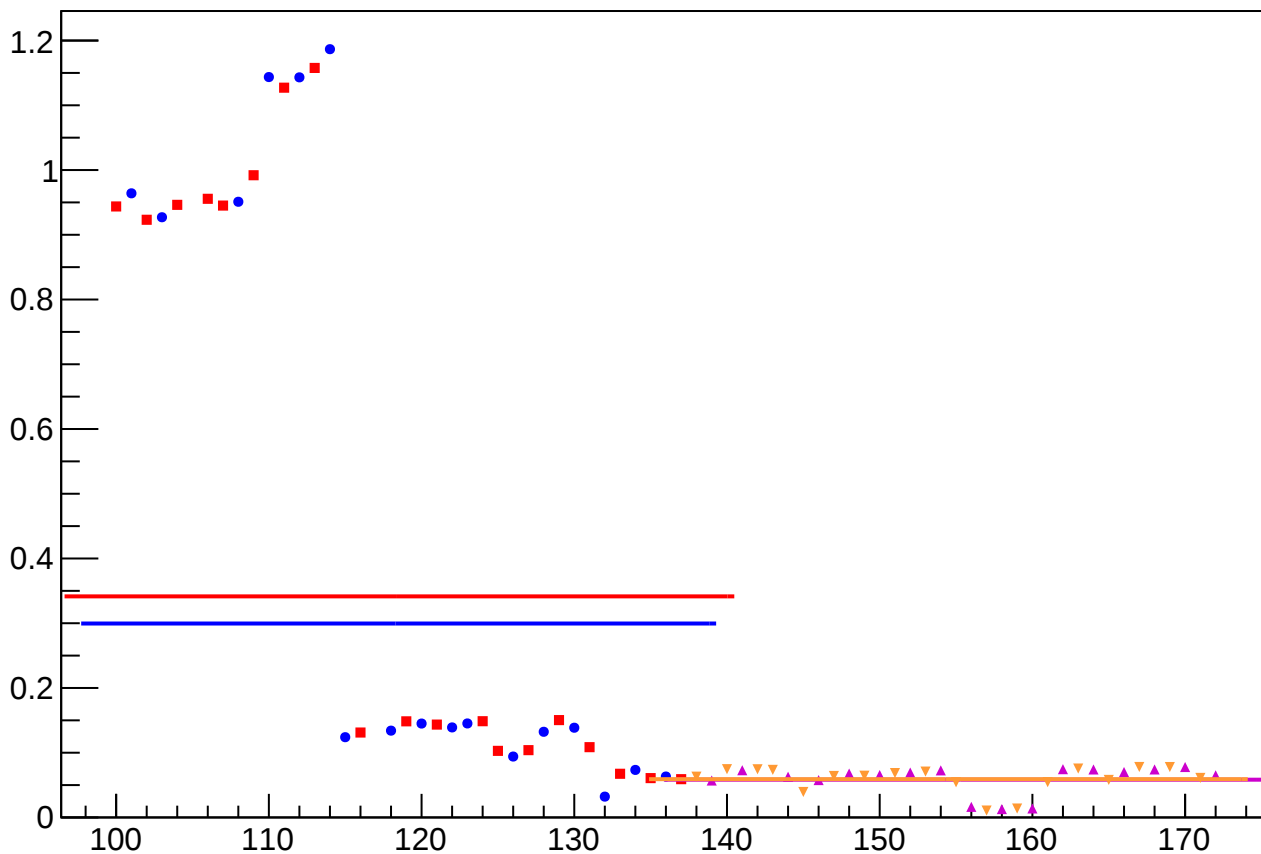
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1735499.7/33

Out: 0.019+/-0.000 χ^2/NDF : 1891054.4/36

All: 0.019+/-0.000 χ^2/NDF : 3626585.6/70

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300 $\pm$ 0.000 χ^2 /NDF: 5165052137.6/16

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 43422189.6/17

Right Out: 0.341 $\pm$ 0.000 χ^2 /NDF: 5450600455.1/18

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF: 55148334.1/16

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 98604601.9/34

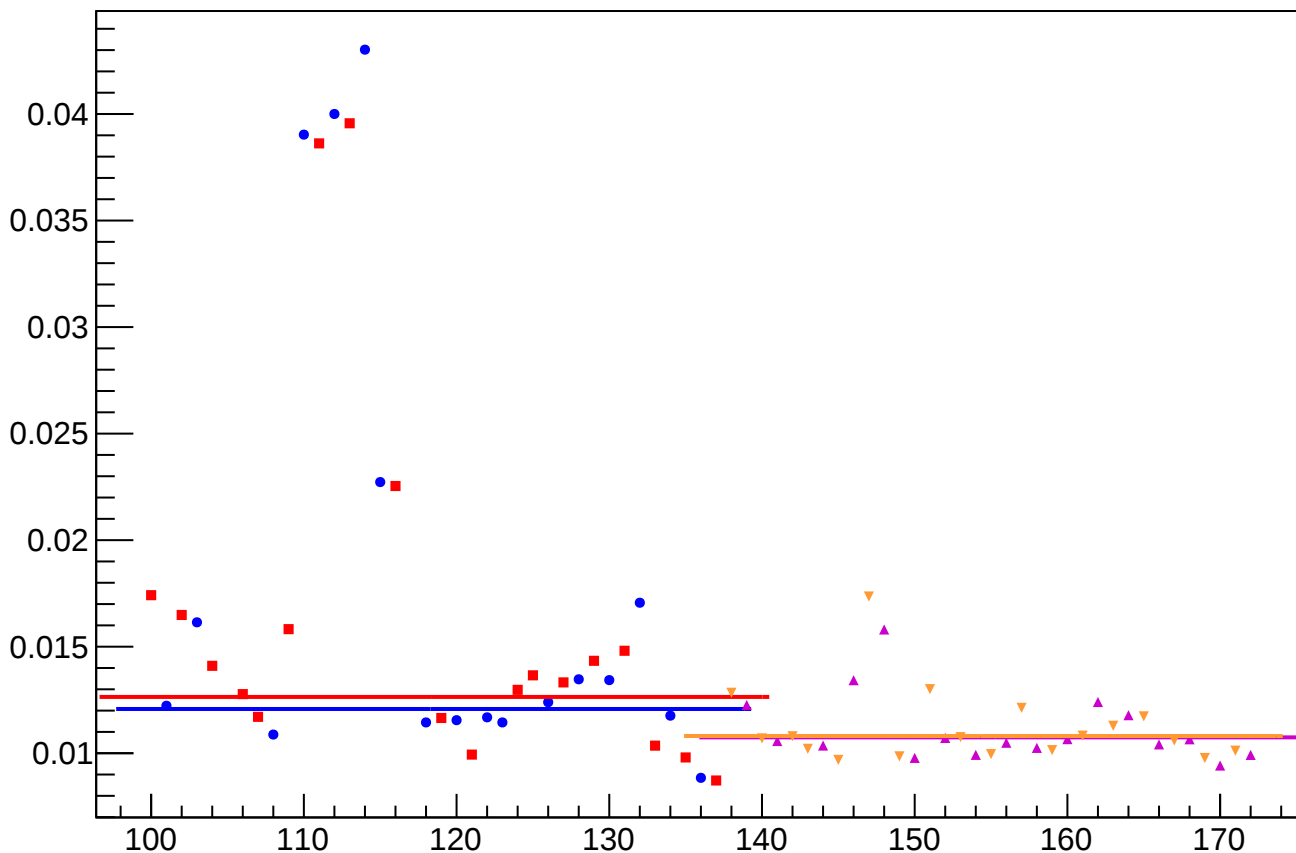
Right: 0.320 $\pm$ 0.000 χ^2 /NDF: 10648917928.5/35

In: 0.122 $\pm$ 0.000 χ^2 /NDF: 6885442471.8/33

Out: 0.130 $\pm$ 0.000 χ^2 /NDF: 7692170251.2/36

All: 0.126 $\pm$ 0.000 χ^2 /NDF: 14582698601.3/70

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1282097.7/16

Left Out: 0.011+/-0.000 χ^2/NDF : 399591.0/17

Right Out: 0.013+/-0.000 χ^2/NDF : 1237706.0/18

Left In: 0.011+/-0.000 χ^2/NDF : 349148.0/16

Left: 0.011+/-0.000 χ^2/NDF : 749180.3/34

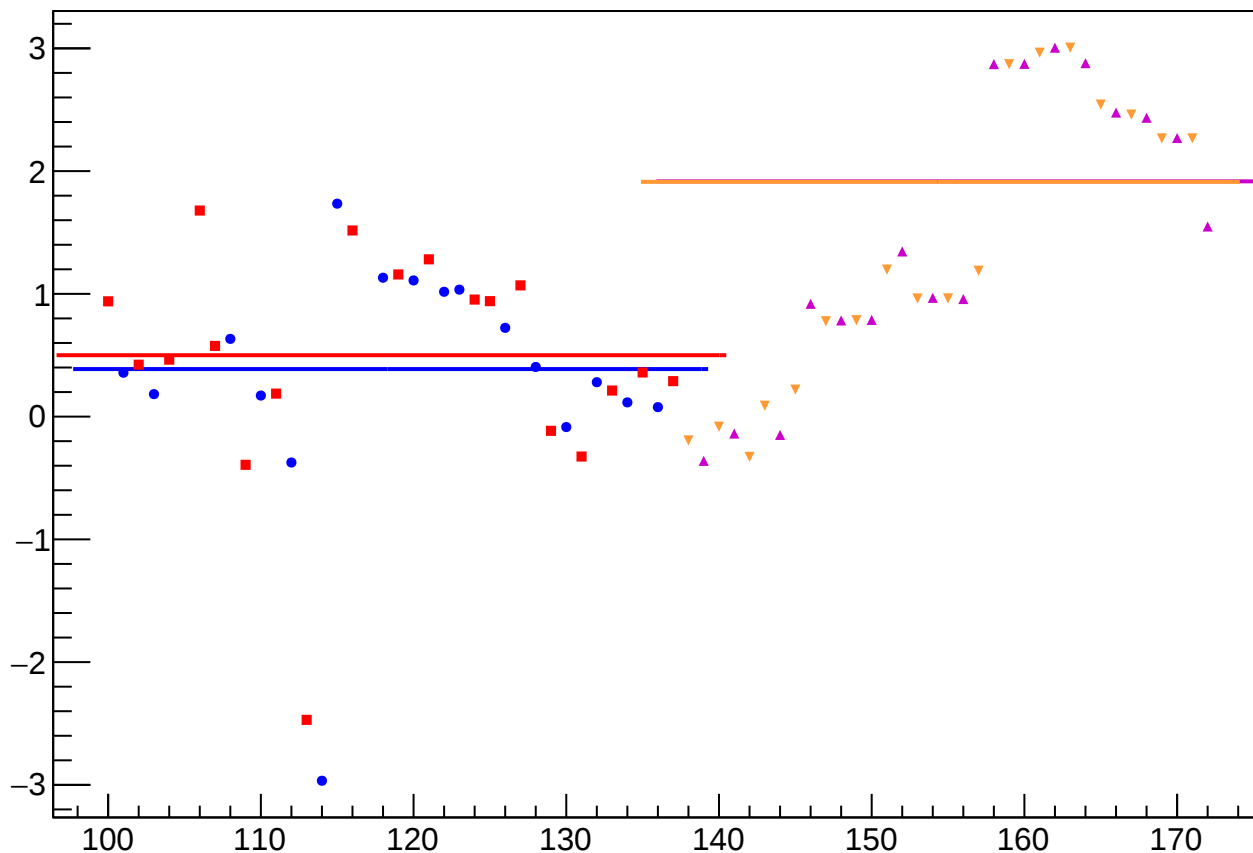
Right: 0.012+/-0.000 χ^2/NDF : 2531931.6/35

In: 0.011+/-0.000 χ^2/NDF : 1732836.2/33

Out: 0.011+/-0.000 χ^2/NDF : 1822897.7/36

All: 0.011+/-0.000 χ^2/NDF : 3560212.8/70

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387+/-0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.913+/-0.000 χ^2/NDF : 26789309269.6/17

Right Out: 0.500+/-0.000 χ^2/NDF : 983360928.1/18

Left In: 1.917+/-0.000 χ^2/NDF : 28506159602.9/16

Left: 1.915+/-0.000 χ^2/NDF : 55295746068.7/34

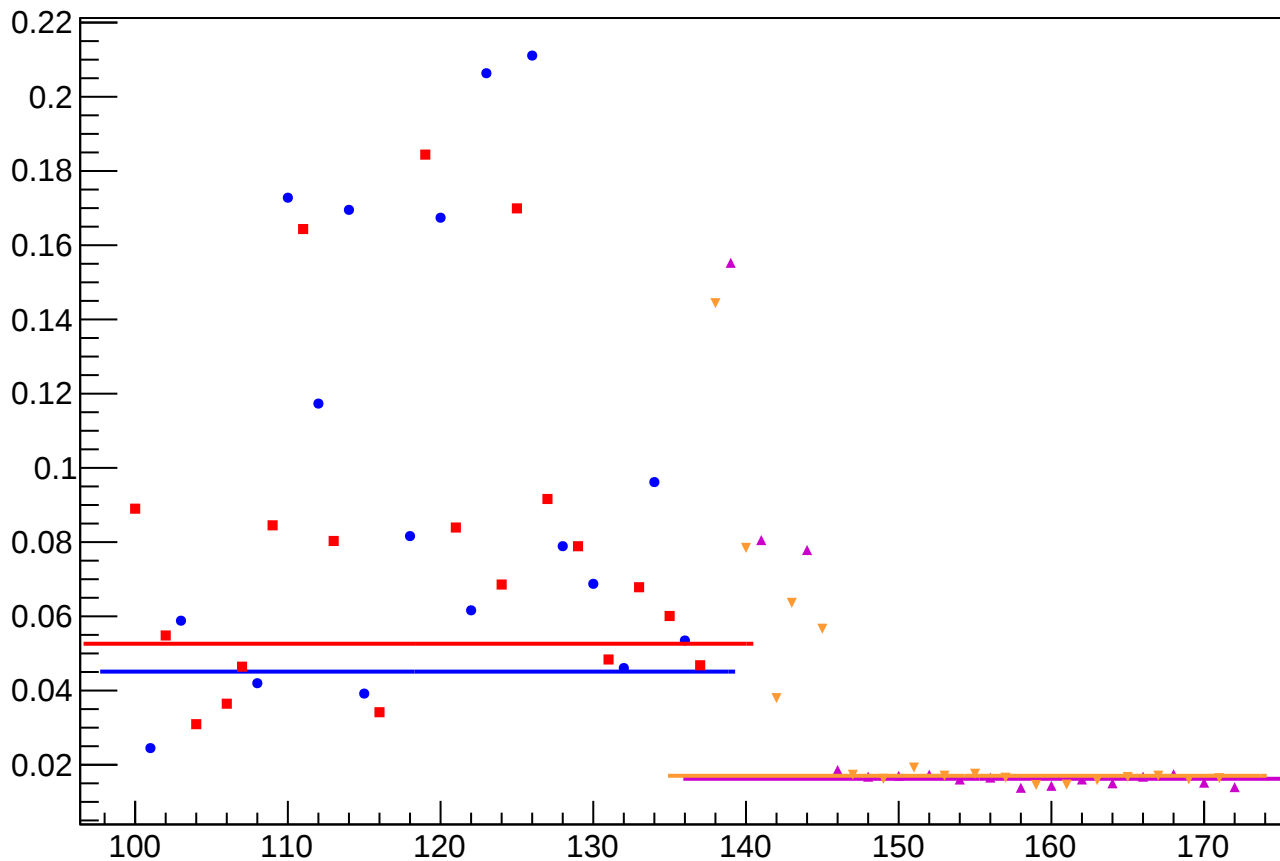
Right: 0.439+/-0.000 χ^2/NDF : 1241544973.3/35

In: 1.847+/-0.000 χ^2/NDF : 32658726266.8/33

Out: 1.852+/-0.000 χ^2/NDF : 30623223052.1/36

All: 1.850+/-0.000 χ^2/NDF : 63282409267.3/71

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 : 2738568.2/17

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.016+/-0.000 χ^2/NDF : 2380551.9/16

Left: 0.017+/-0.000 χ^2/NDF : 5142312.0/34

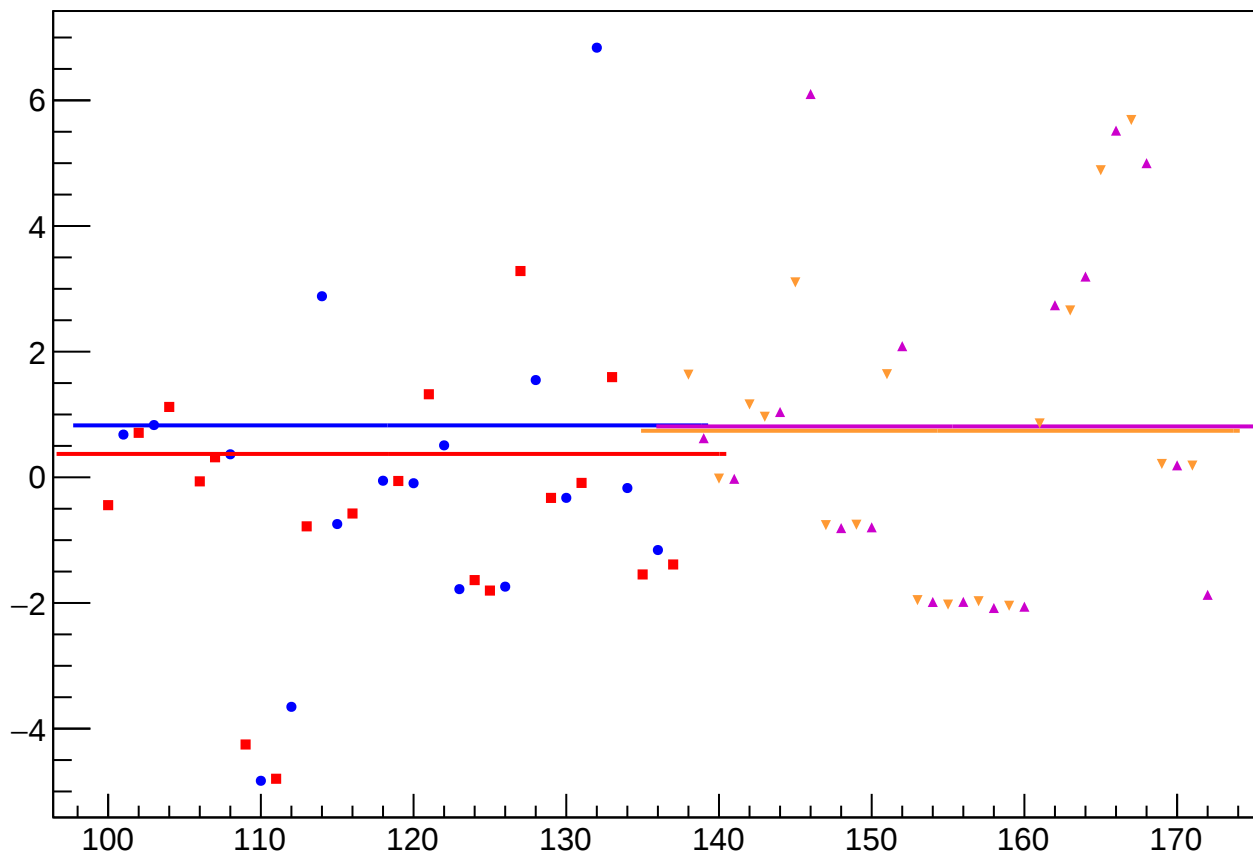
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.018+/-0.000 χ^2/NDF : 8011203.1/33

Out: 0.019+/-0.000 χ^2/NDF : 8545796.9/36

All: 0.018+/-0.000 χ^2/NDF : 16595461.8/70

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.777+/-0.000

χ^2/NDF : 882065292193.9/34

Right: 0.613+/-0.000

χ^2/NDF : 16291516809.6/35

Left Out: 0.741+/-0.000

χ^2/NDF : 364674282687.9/17

In: 0.811+/-0.000

χ^2/NDF : 528192587791.1/33

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

Out: 0.719+/-0.000

χ^2/NDF : 370094069037.5/36

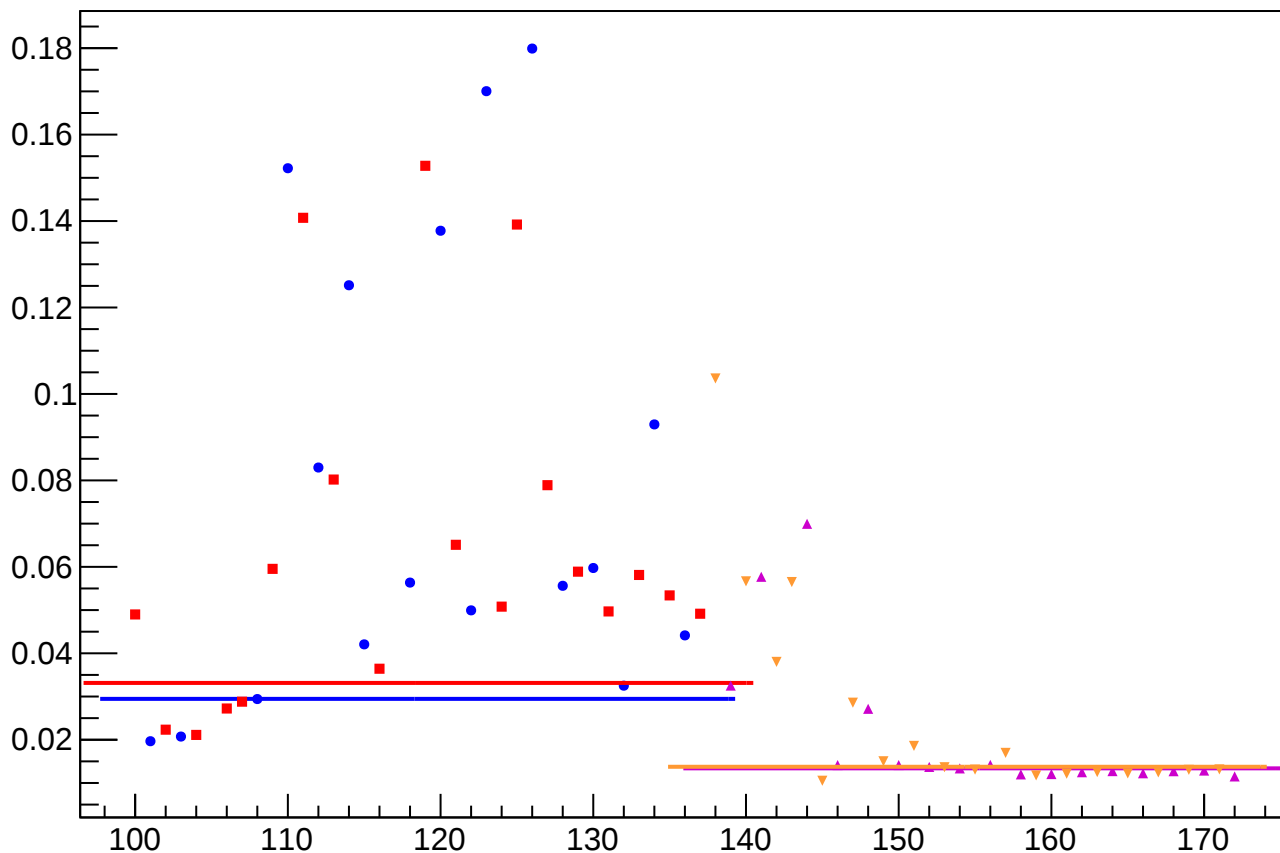
Left In: 0.810+/-0.000

χ^2/NDF : 517255122317.4/16

All: 0.767+/-0.000

χ^2/NDF : 898544857364.3

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 3053519.6/16

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF:2845724.5/17

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 3096820.9/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1911811.2/16

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 4765204.6/34

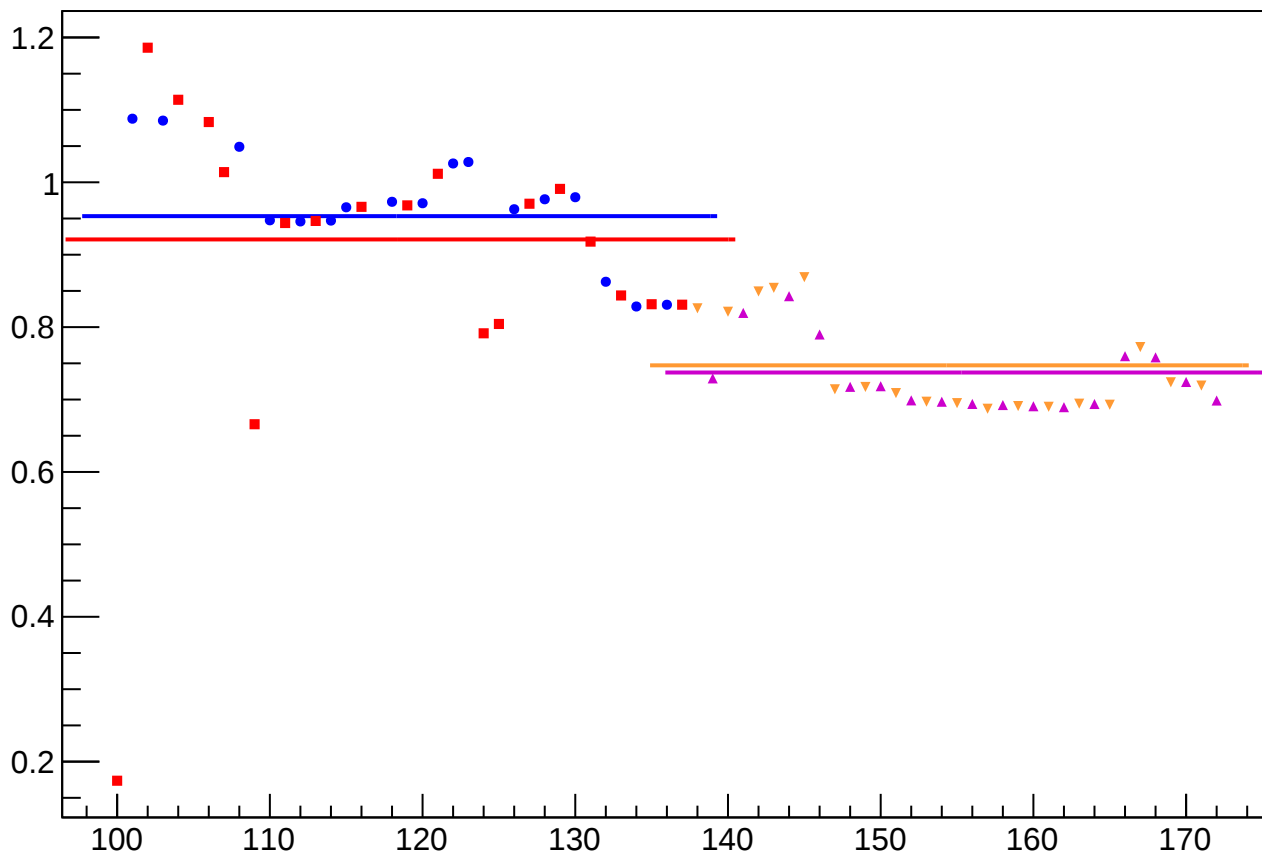
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6200704.9/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:6873145.8/33

Out: 0.015 $\pm$ 0.000 χ^2 /NDF:8416647.3/36

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 15307109.9/70

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.747+/-0.000 χ^2/NDF : 264714780.9/17

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.737+/-0.000 χ^2/NDF : 163568662.1/16

Left: 0.742+/-0.000 χ^2/NDF : 431367260.6/34

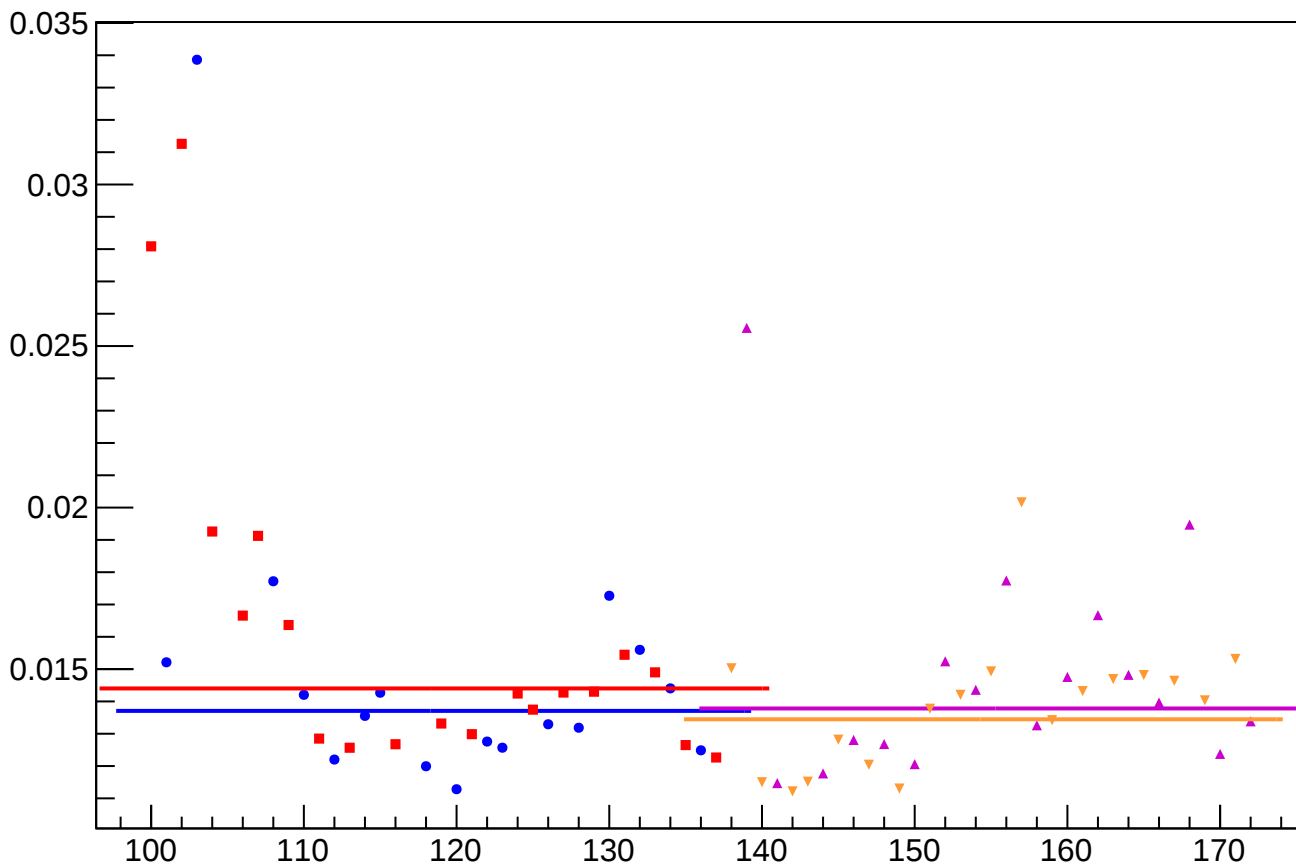
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.810+/-0.000 χ^2/NDF : 1297554650.7/33

Out: 0.802+/-0.000 χ^2/NDF : 1248967042.8/36

All: 0.806+/-0.000 χ^2/NDF : 2549726972.0/70

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 : 393006.8/17

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF : 725621.4/16

Left: 0.014+/-0.000 χ^2/NDF : 1125691.2/34

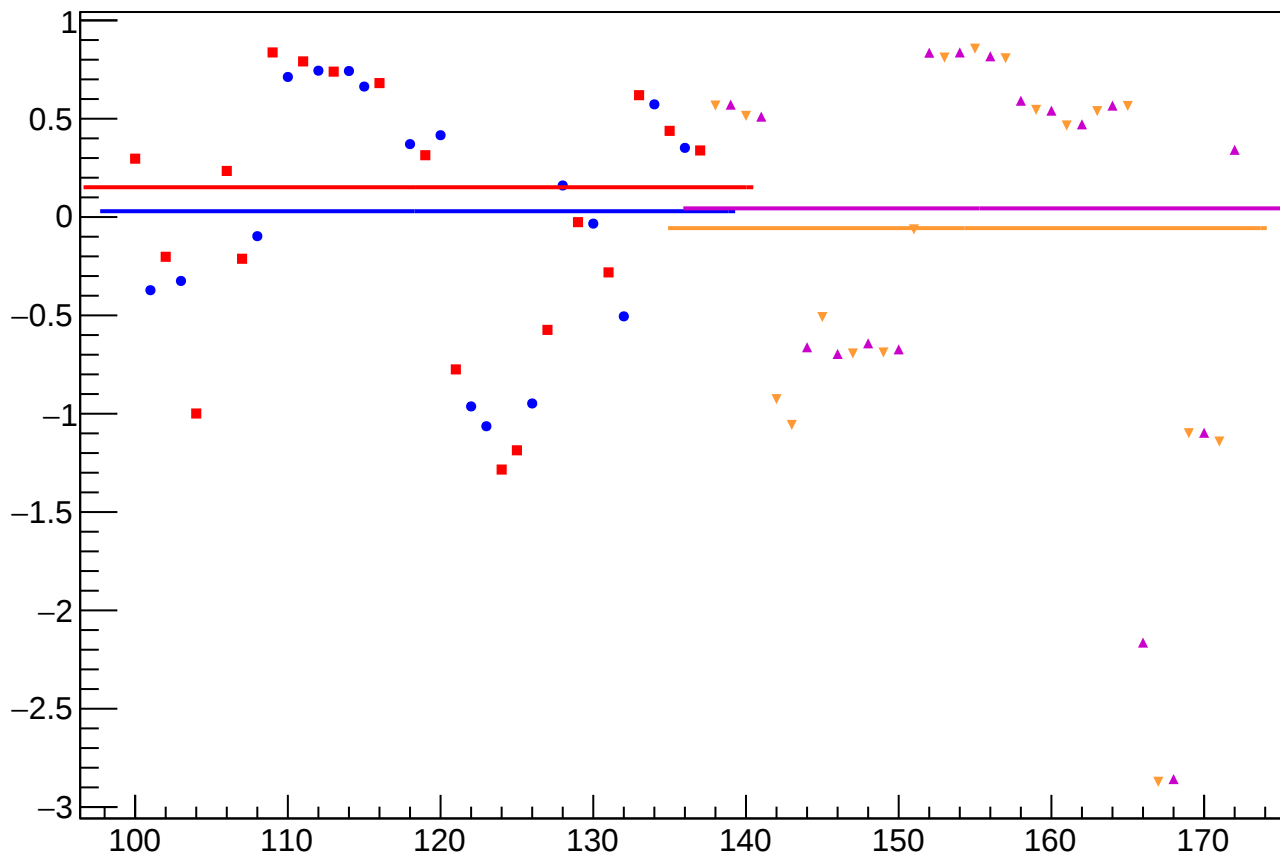
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1272167.1/33

Out: 0.014+/-0.000 χ^2/NDF : 931588.0/36

All: 0.014+/-0.000 χ^2/NDF : 2203768.1/70

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 6294824795.0/16

Left Out: -0.056+/-0.000 χ^2/NDF : 72469680485.2/17

Right Out: 0.152+/-0.000 χ^2/NDF : 12661812059.7/18

Left In: 0.044+/-0.000 χ^2/NDF : 78137996209.2/16

Left: -0.006+/-0.000 χ^2/NDF : 151015826229.5/34

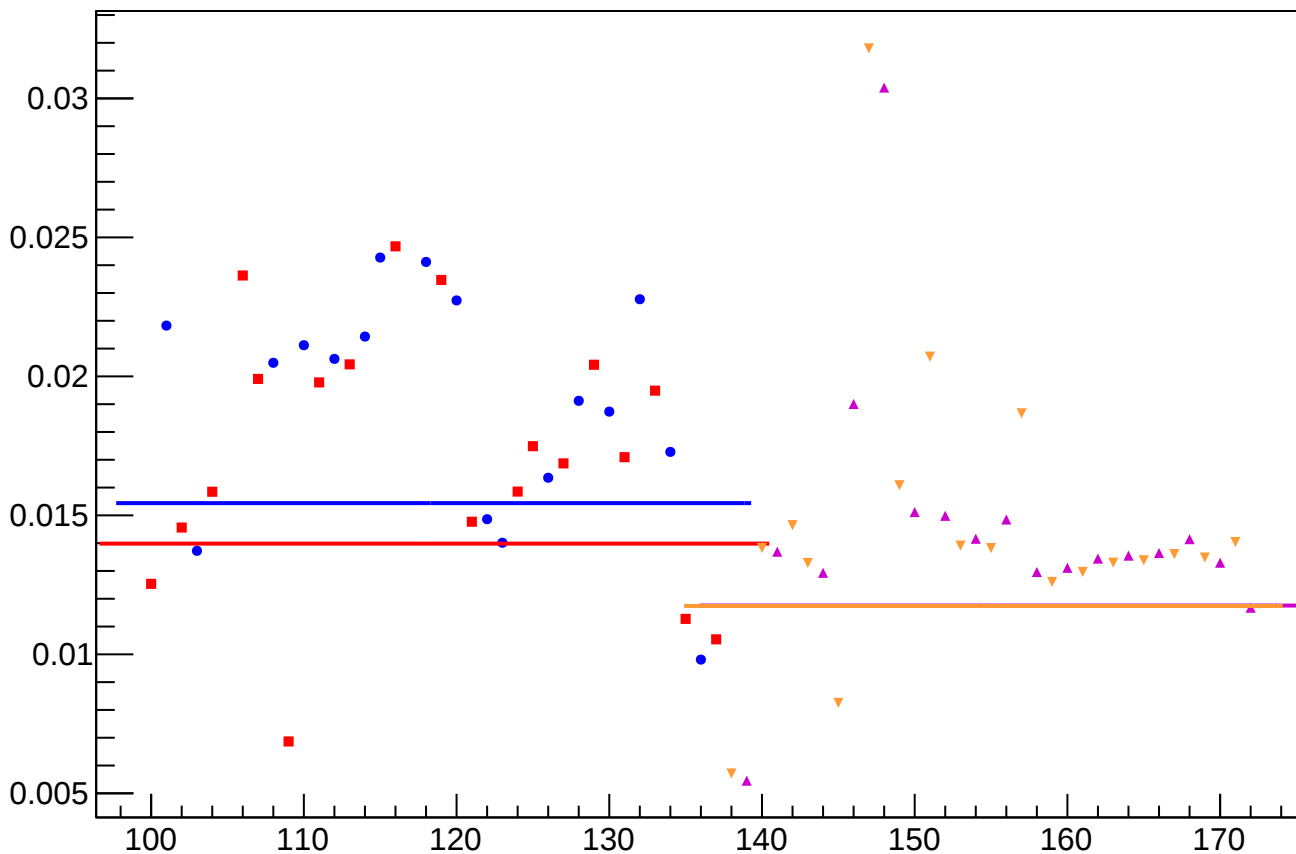
Right: 0.096+/-0.000 χ^2/NDF : 19149304558.7/35

In: 0.041+/-0.000 χ^2/NDF : 84436669296.6/33

Out: -0.002+/-0.000 χ^2/NDF : 86046521652.5/36

All: 0.019+/-0.000 χ^2/NDF : 170582179498.8

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 : 3013548.8/17

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 2938928.8/16

Left: 0.012+/-0.000 χ^2/NDF : 5952495.5/34

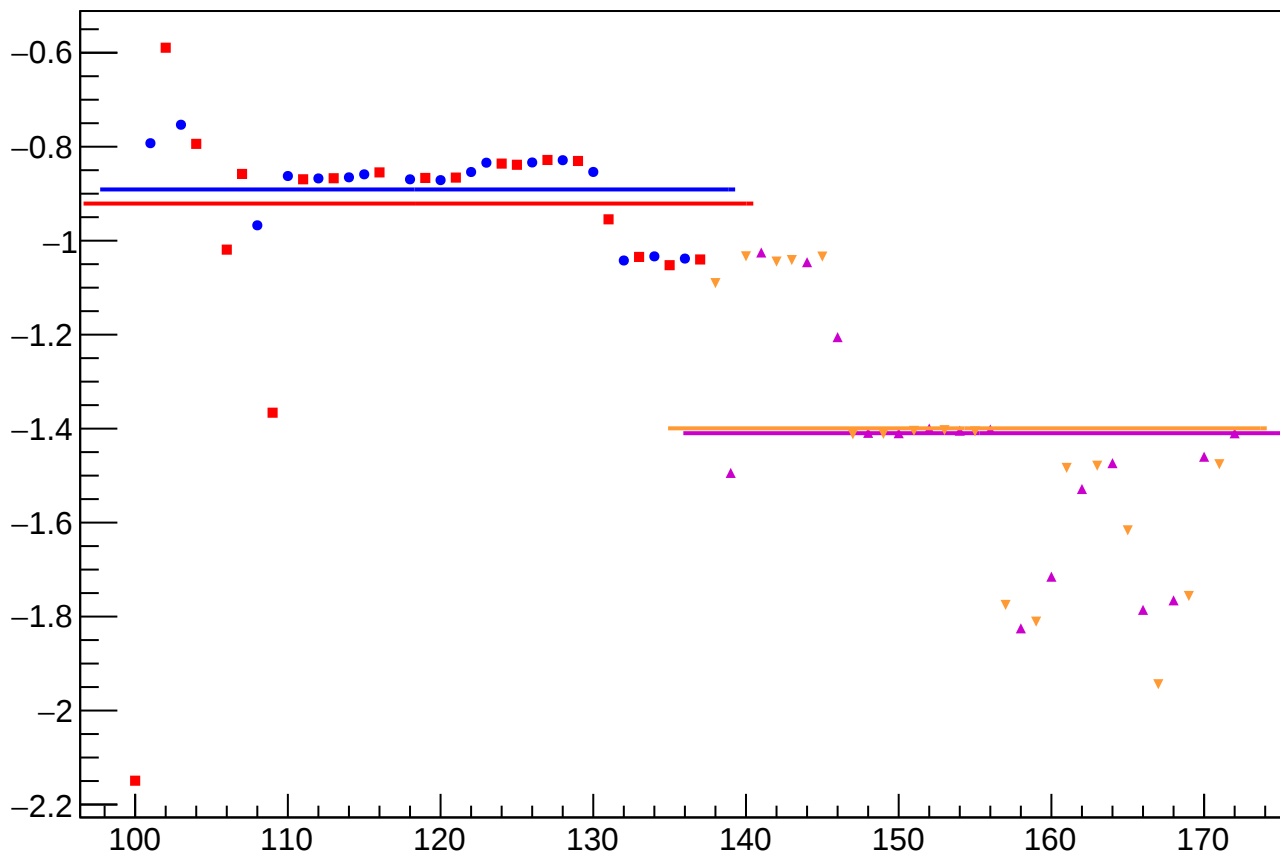
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4598088.0/33

Out: 0.012+/-0.000 χ^2/NDF : 4787408.2/36

All: 0.012+/-0.000 χ^2/NDF : 9393309.1/70

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.399+/-0.000 χ^2/NDF : 717958378.4/17

Right Out: -0.921+/-0.000 χ^2/NDF : 131183059.9/18

Left In: -1.410+/-0.000 χ^2/NDF : 511069892.1/16

Left: -1.404+/-0.000 χ^2/NDF : 1229532041.7/34

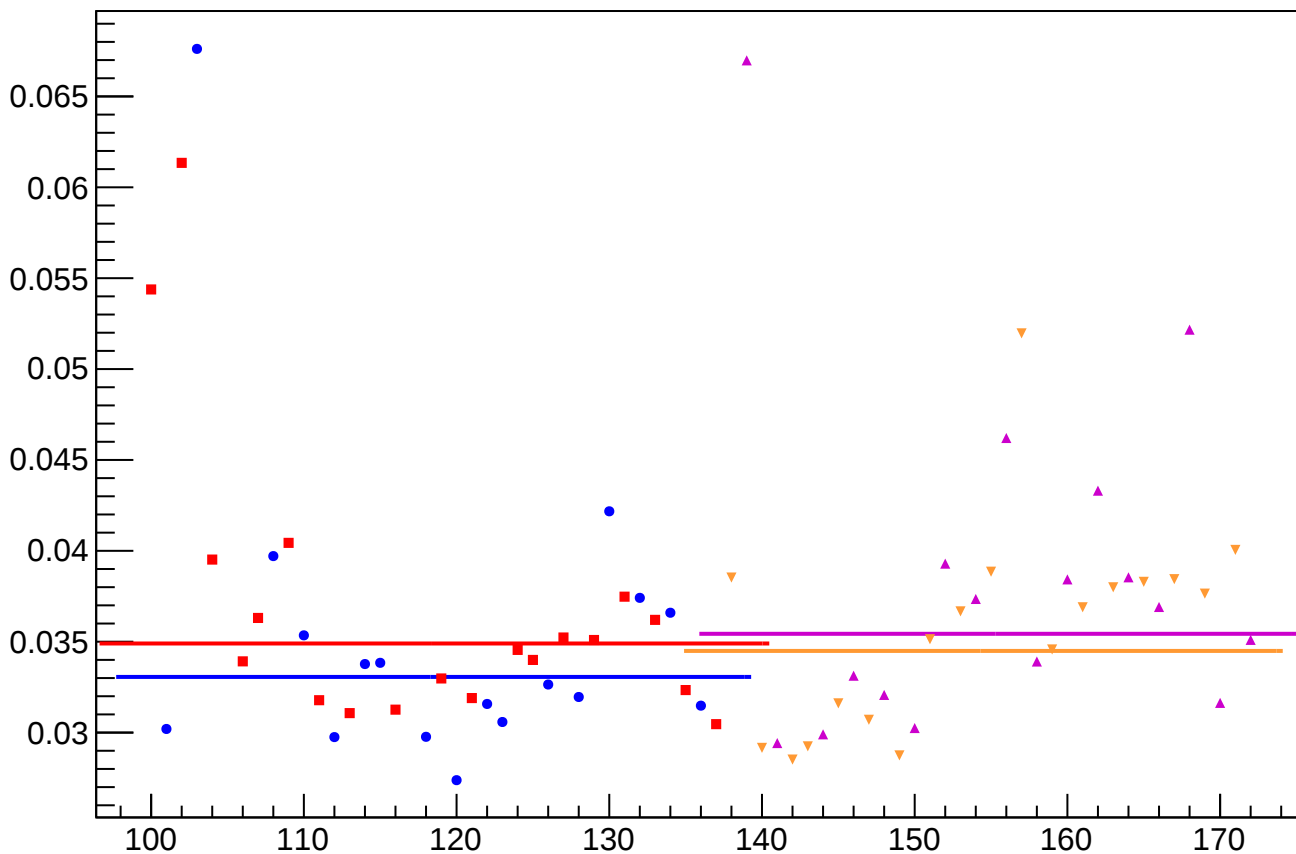
Right: -0.906+/-0.000 χ^2/NDF : 173111604.1/35

In: -1.218+/-0.000 χ^2/NDF : 1461575436.3/33

Out: -1.236+/-0.000 χ^2/NDF : 1609674859.8/36

All: -1.227+/-0.000 χ^2/NDF : 3073551291.3/7

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 :448505.1/17

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.035+/-0.000 χ^2/NDF :808866.4/16

Left: 0.035+/-0.000 χ^2/NDF : 1265733.6/34

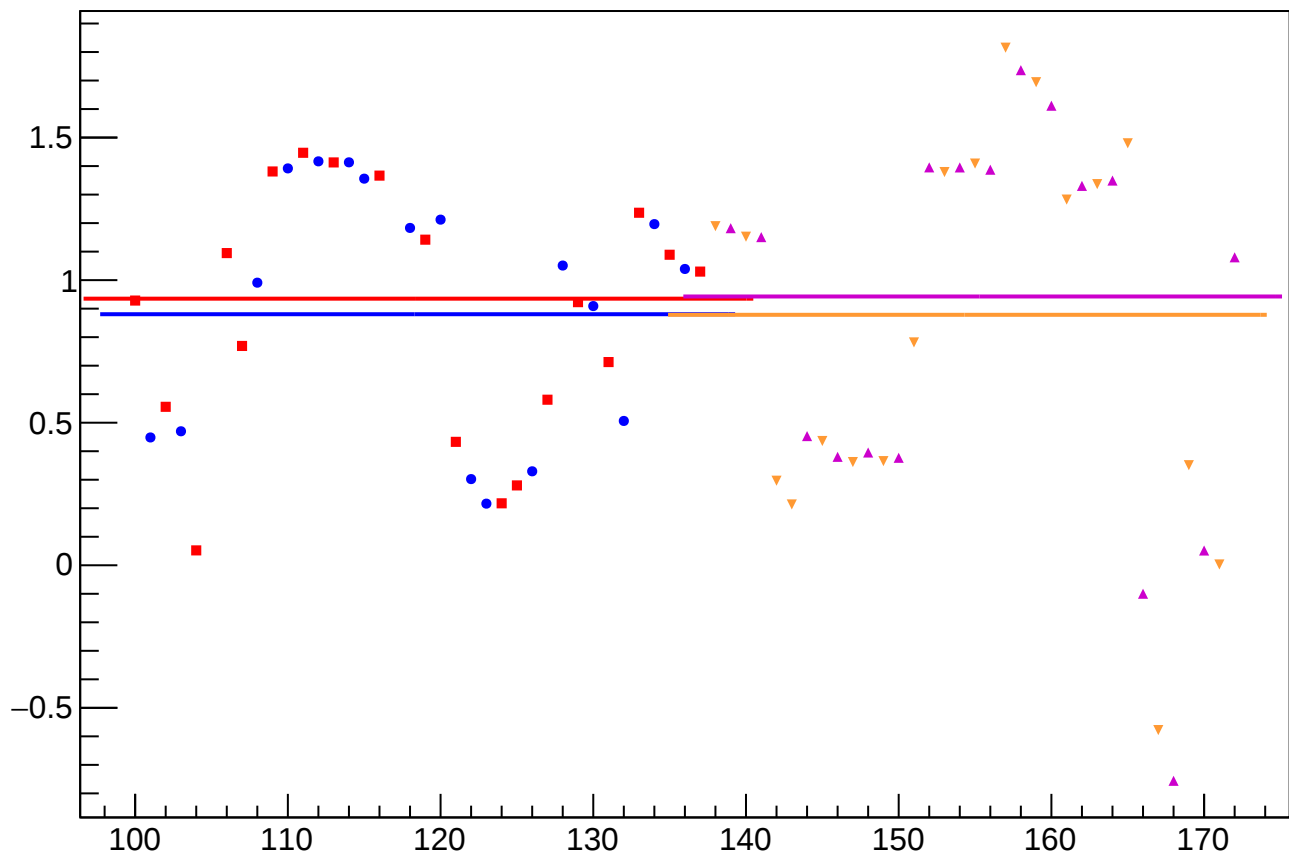
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF :1256264.4/33

Out: 0.035+/-0.000 χ^2/NDF :723887.9/36

All: 0.035+/-0.000 χ^2/NDF : 1980235.3/70

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000 χ^2 /NDF: 6400108121.4/16

Left Out: 0.878 $\pm$ 0.000 χ^2 /NDF: 63381596675.1/17

Right Out: 0.935 $\pm$ 0.000 χ^2 /NDF: 9833525935.6/18

Left In: 0.943 $\pm$ 0.000 χ^2 /NDF: 65214633198.6/16

Left: 0.910 $\pm$ 0.000 χ^2 /NDF: 128917946205.2/34

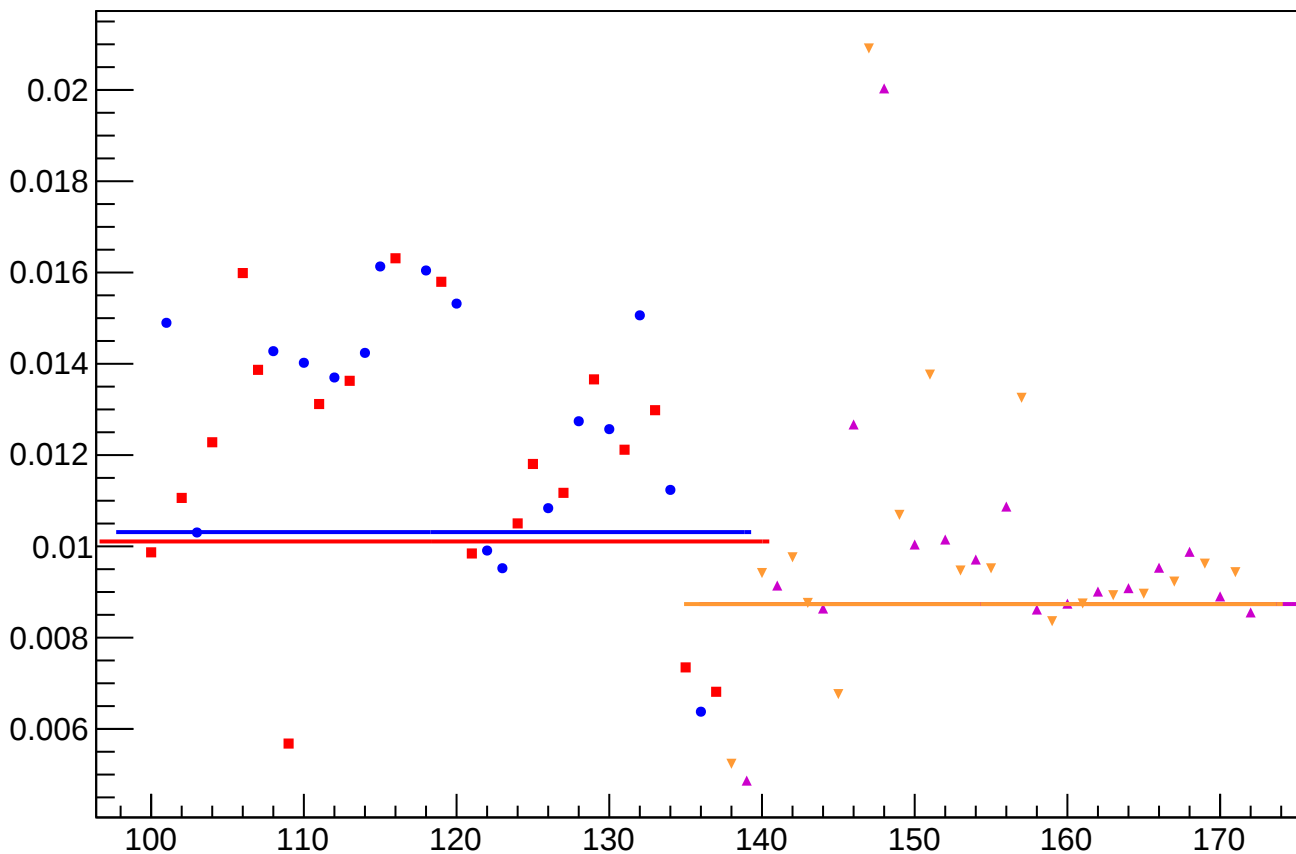
Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

In: 0.927 $\pm$ 0.000 χ^2 /NDF: 71766828675.2/33

Out: 0.893 $\pm$ 0.000 χ^2 /NDF: 73349484684.9/36

All: 0.910 $\pm$ 0.000 χ^2 /NDF: 145233346032.8

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 : 1687537.0/17

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 1593016.3/16

Left: 0.009+/-0.000 χ^2/NDF : 3280553.3/34

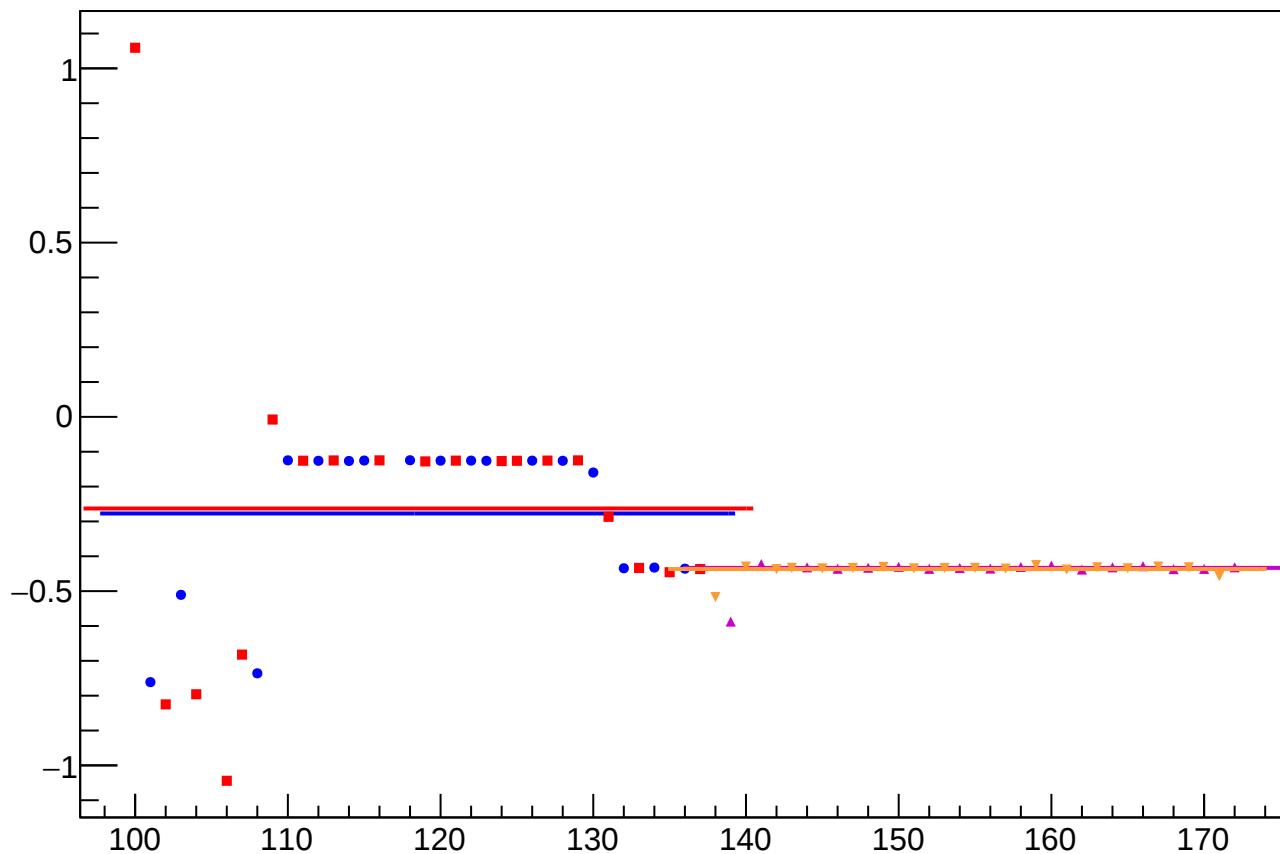
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF : 3019543.3/33

Out: 0.009+/-0.000 χ^2/NDF : 3023741.9/36

All: 0.009+/-0.000 χ^2/NDF : 6043559.0/70

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277 ± 0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.437 ± 0.000 χ^2/NDF : 28633177.0/17

Right Out: -0.263 ± 0.000 χ^2/NDF : 1008398102.0/18

Left In: -0.433 ± 0.000 χ^2/NDF : 23651030.0/16

Left: -0.435 ± 0.000 χ^2/NDF : 52898343.3/34

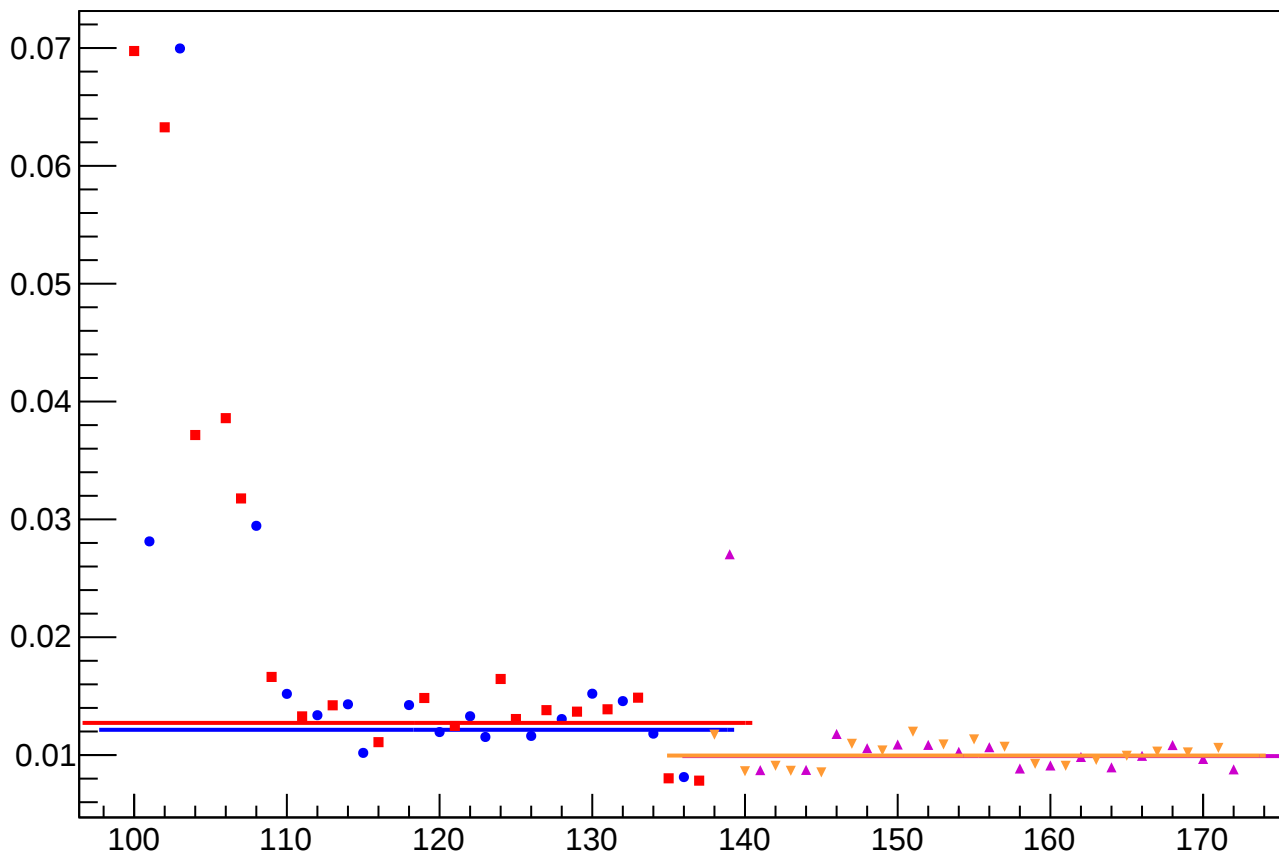
Right: -0.270 ± 0.000 χ^2/NDF : 1952121842.2/35

In: -0.398 ± 0.000 χ^2/NDF : 1569514651.6/33

Out: -0.400 ± 0.000 χ^2/NDF : 1751566880.3/36

All: -0.399 ± 0.000 χ^2/NDF : 3321361633.5/7

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:233011.0/17

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1969165.0/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:724119.7/16

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 957366.2/34

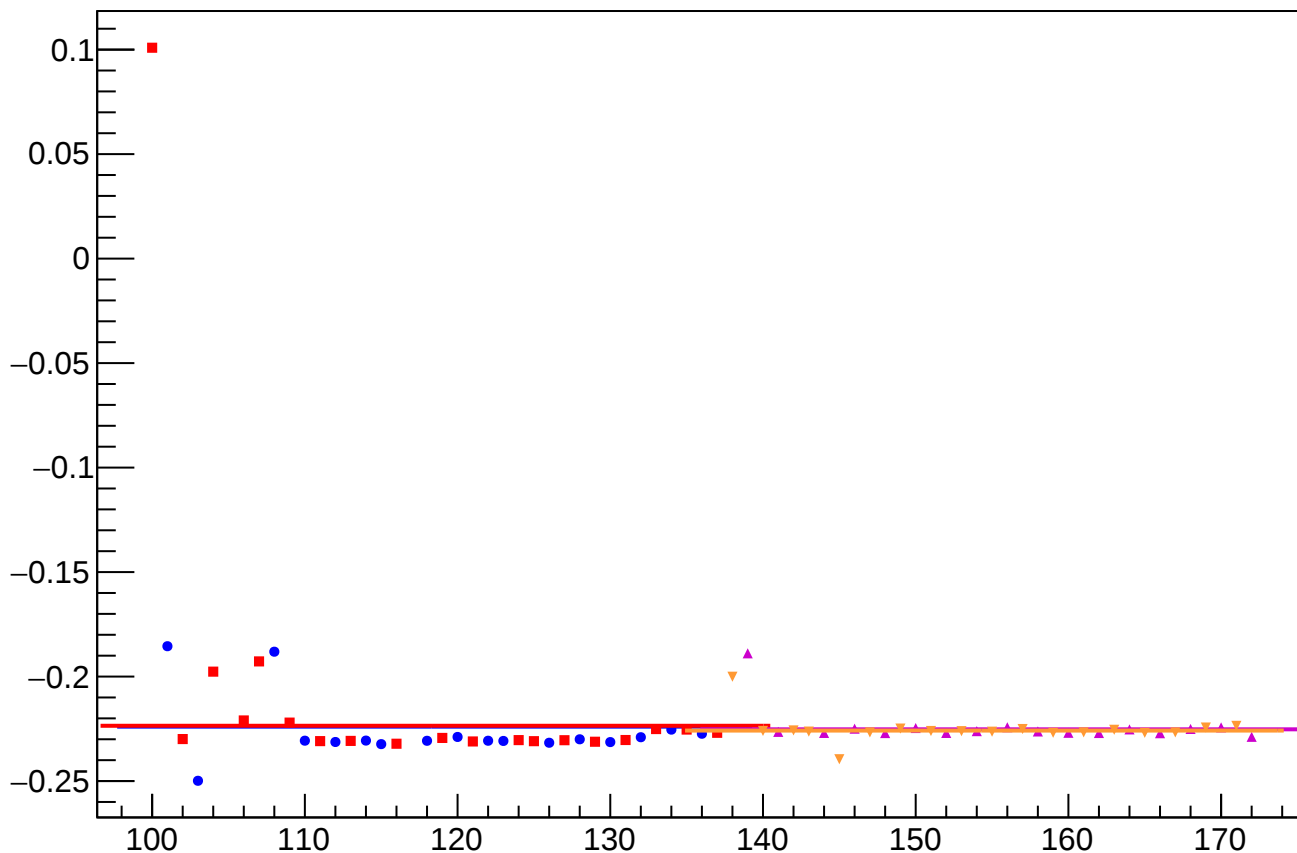
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2698788.7/33

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2565757.3/36

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5266784.8/70

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224 ± 0.000 $\chi^2/\text{NDF}: 74704721.6/16$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 20834147.5/17$

Right Out: -0.224 ± 0.000 $\chi^2/\text{NDF}: 168125914.6/18$

Left In: -0.225 ± 0.000 $\chi^2/\text{NDF}: 14693340.4/16$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 35610872.3/34$

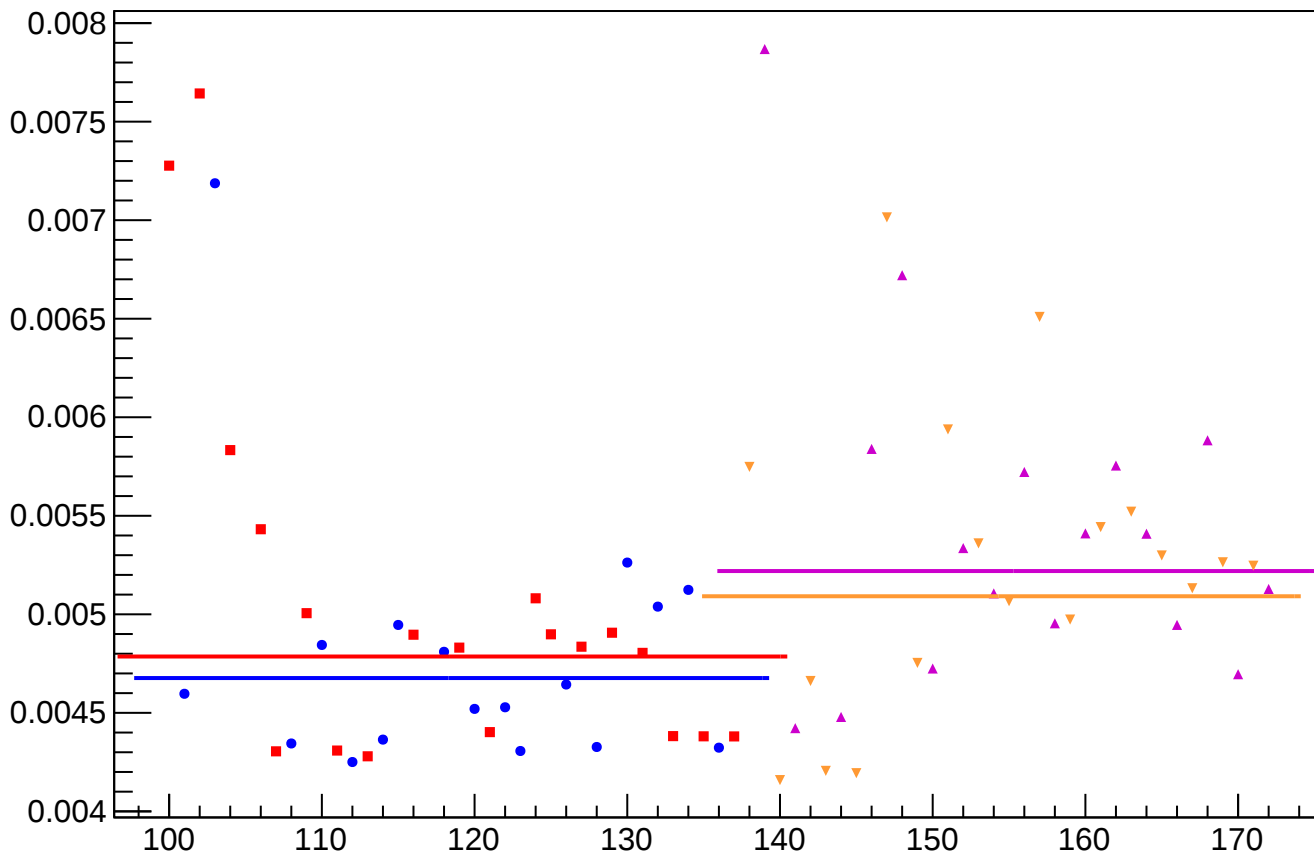
Right: -0.224 ± 0.000 $\chi^2/\text{NDF}: 242852935.9/35$

In: -0.225 ± 0.000 $\chi^2/\text{NDF}: 89686029.5/33$

Out: -0.225 ± 0.000 $\chi^2/\text{NDF}: 189890741.3/36$

All: -0.225 ± 0.000 $\chi^2/\text{NDF}: 279599407.0/70$

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 : 451092.8/17

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 426156.1/16

Left: 0.005+/-0.000 χ^2/NDF : 884868.2/34

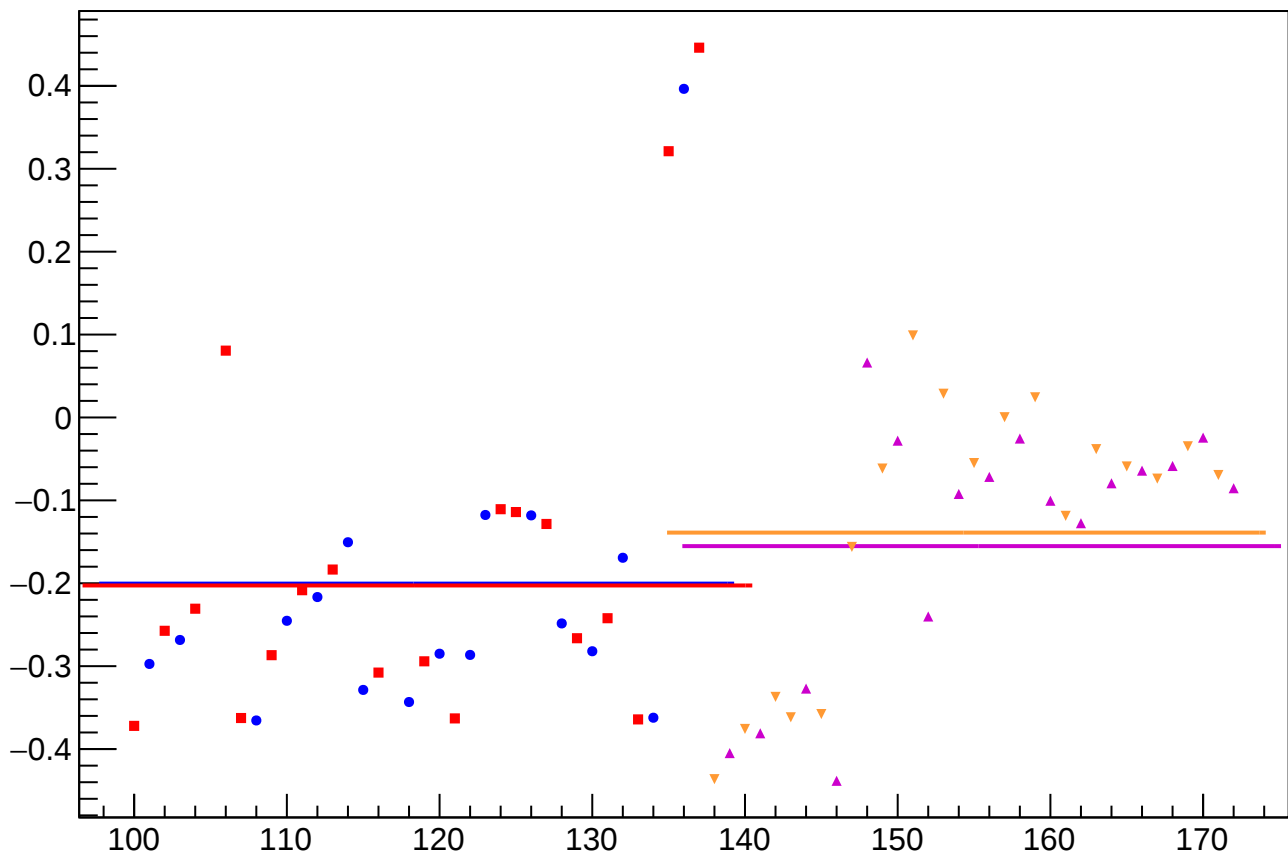
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 708532.5/33

Out: 0.005+/-0.000 χ^2/NDF : 732307.5/36

All: 0.005+/-0.000 χ^2/NDF : 1441709.8/70

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5973556486.0/16$

Left Out: -0.139 ± 0.000 $\chi^2/\text{NDF}: 11627581915.9/17$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5028268807.1/18$

Left In: -0.155 ± 0.000 $\chi^2/\text{NDF}: 8888558486.5/16$

Left: -0.147 ± 0.000 $\chi^2/\text{NDF}: 20572420068.0/34$

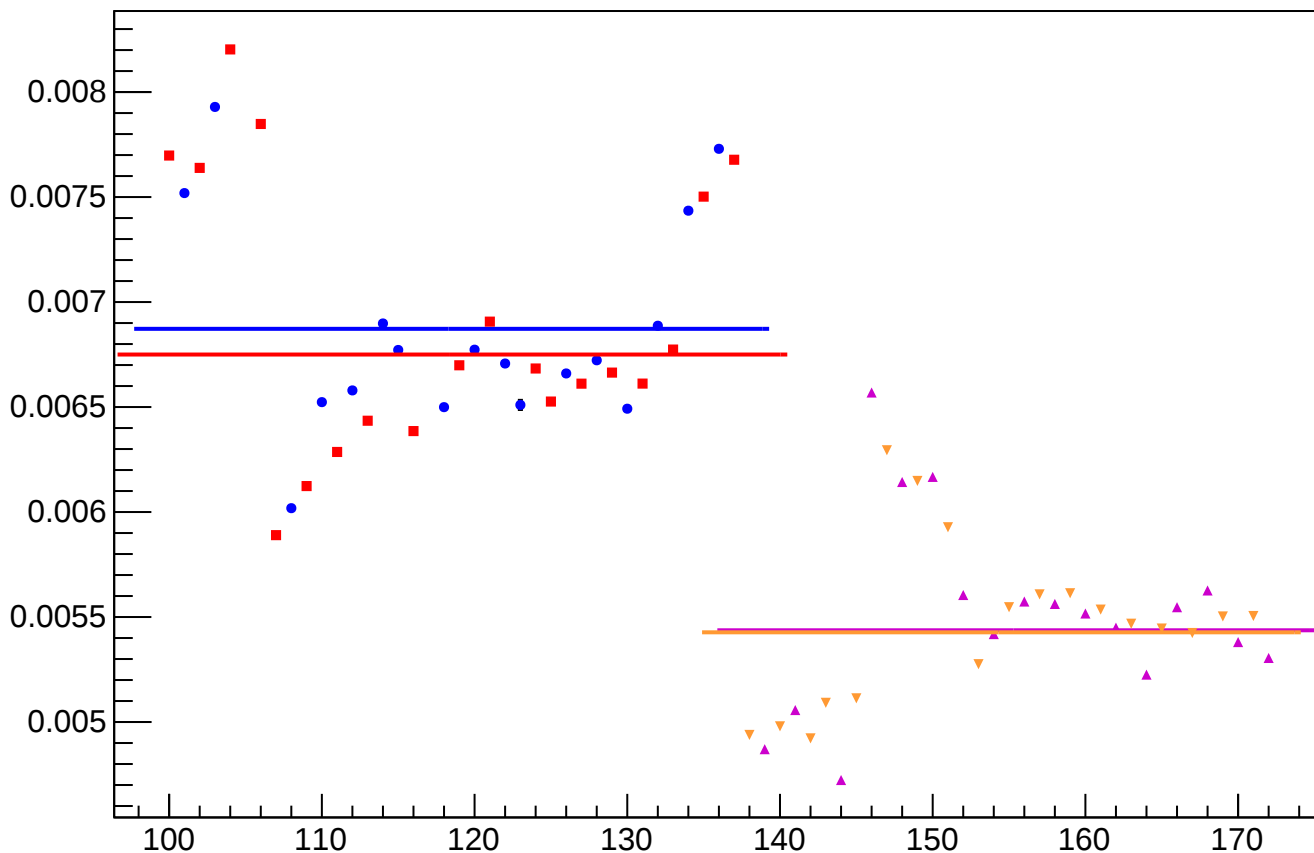
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 11002181720.9/35$

In: -0.166 ± 0.000 $\chi^2/\text{NDF}: 15075403499.4/33$

Out: -0.155 ± 0.000 $\chi^2/\text{NDF}: 17109711979.5/36$

All: -0.161 ± 0.000 $\chi^2/\text{NDF}: 32219583873.8/70$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78611.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :106254.9/17

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF :149115.8/16

Left: 0.005+/-0.000 χ^2/NDF : 255410.3/34

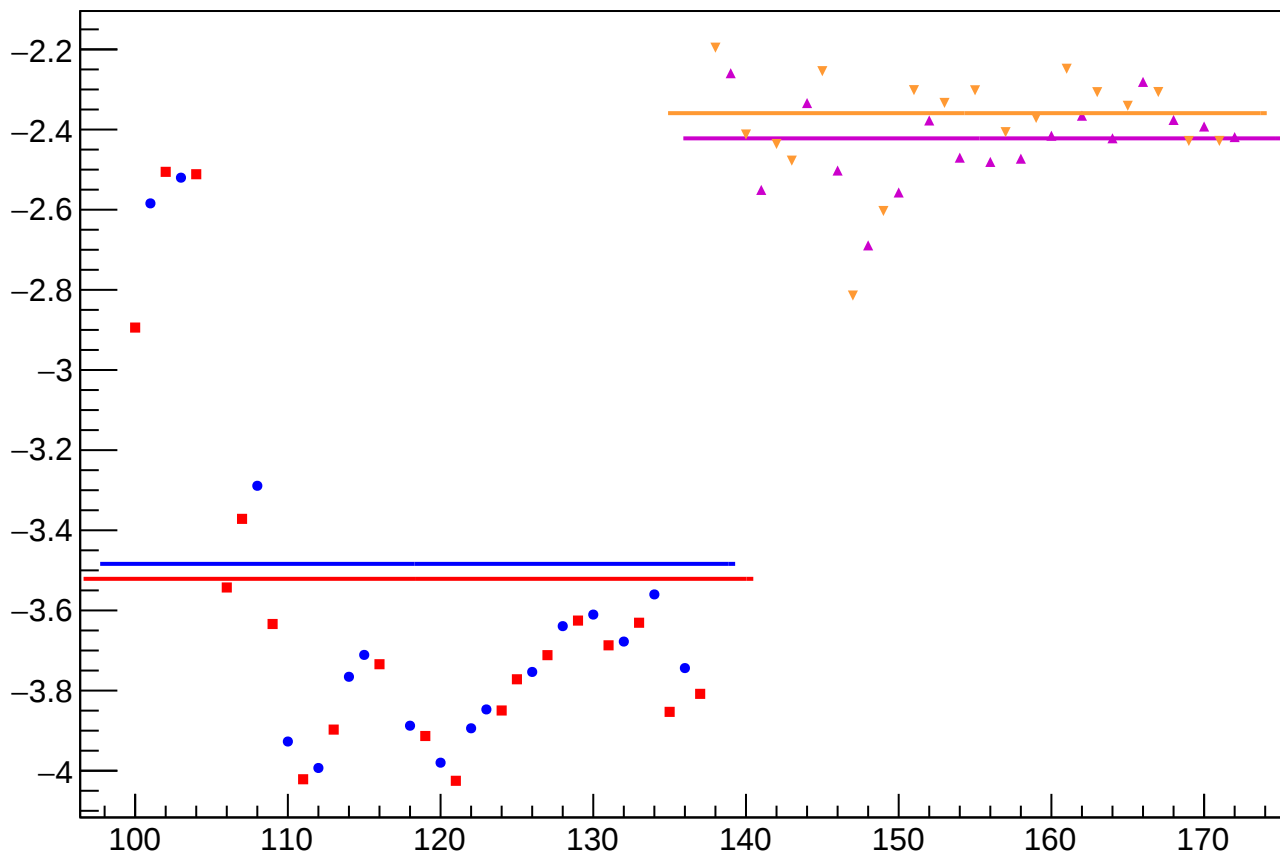
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :657369.2/33

Out: 0.006+/-0.000 χ^2/NDF :602062.1/36

All: 0.006+/-0.000 χ^2/NDF : 1259759.7/70

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.359+/-0.000 χ^2/NDF : 1793326872.8/17

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.422+/-0.000 χ^2/NDF : 1136088086.9/16

Left: -2.390+/-0.000 χ^2/NDF : 3249905010.8/34

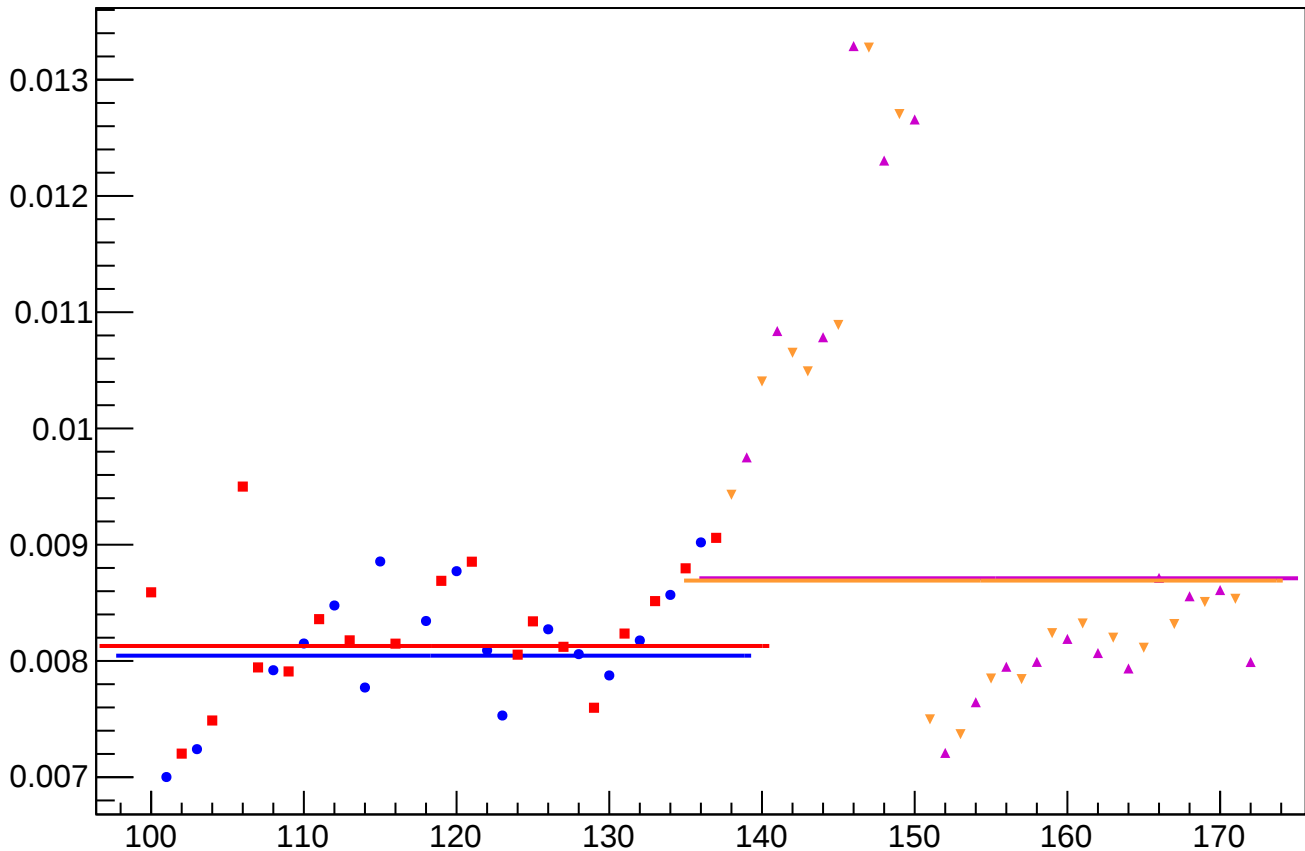
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.832+/-0.000 χ^2/NDF : 97923255471.4/33

Out: -2.806+/-0.000 χ^2/NDF : 113436724917.7/36

All: -2.819+/-0.000 χ^2/NDF : 211445760807.3

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 : 594546.3/17

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 712617.7/16

Left: 0.009+/-0.000 χ^2/NDF : 1307226.9/34

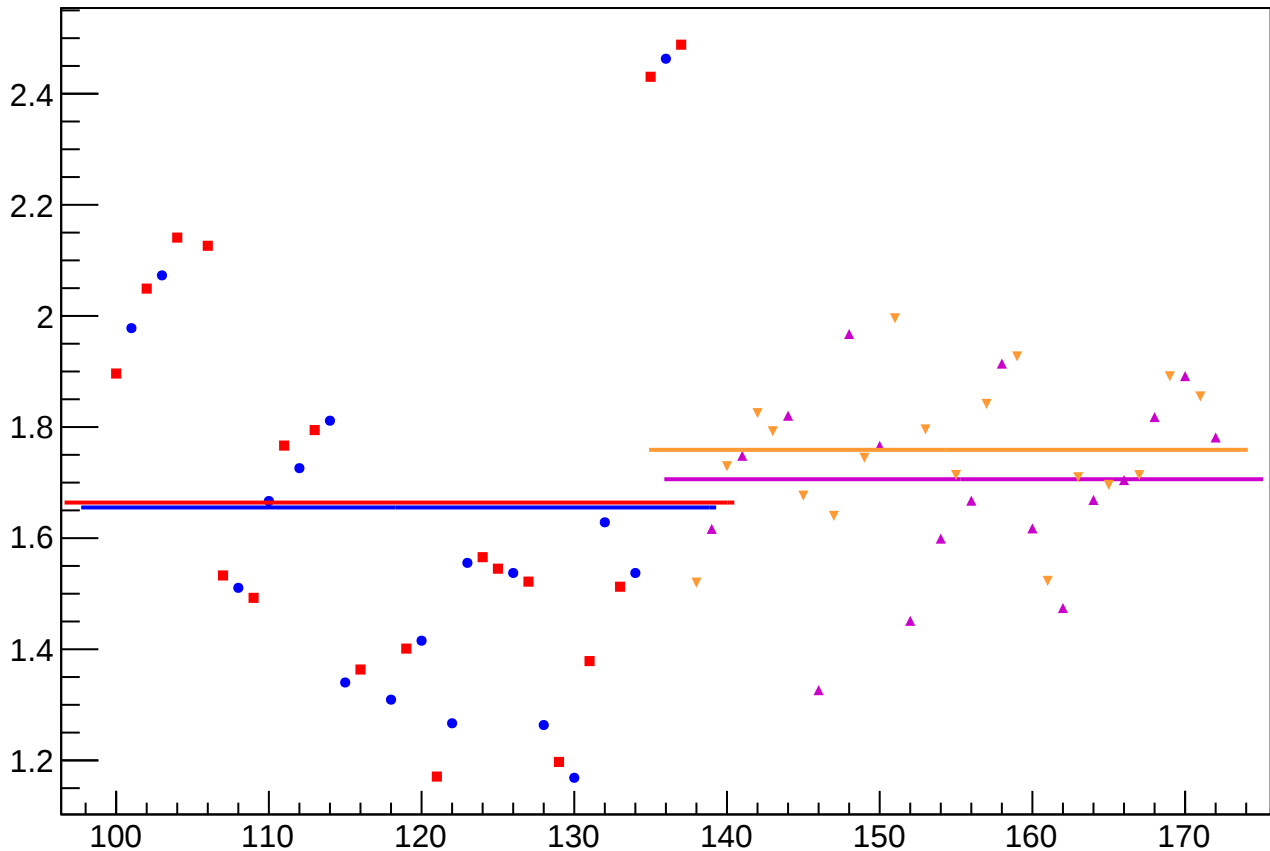
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 839348.0/33

Out: 0.008+/-0.000 χ^2/NDF : 691967.5/36

All: 0.008+/-0.000 χ^2/NDF : 1531428.4/70

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.759+/-0.000 χ^2/NDF :1751837573.8/17

Right Out: 1.664+/-0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.706+/-0.000 χ^2/NDF :2749825619.7/16

Left: 1.733+/-0.000 χ^2/NDF : 4657578090.6/34

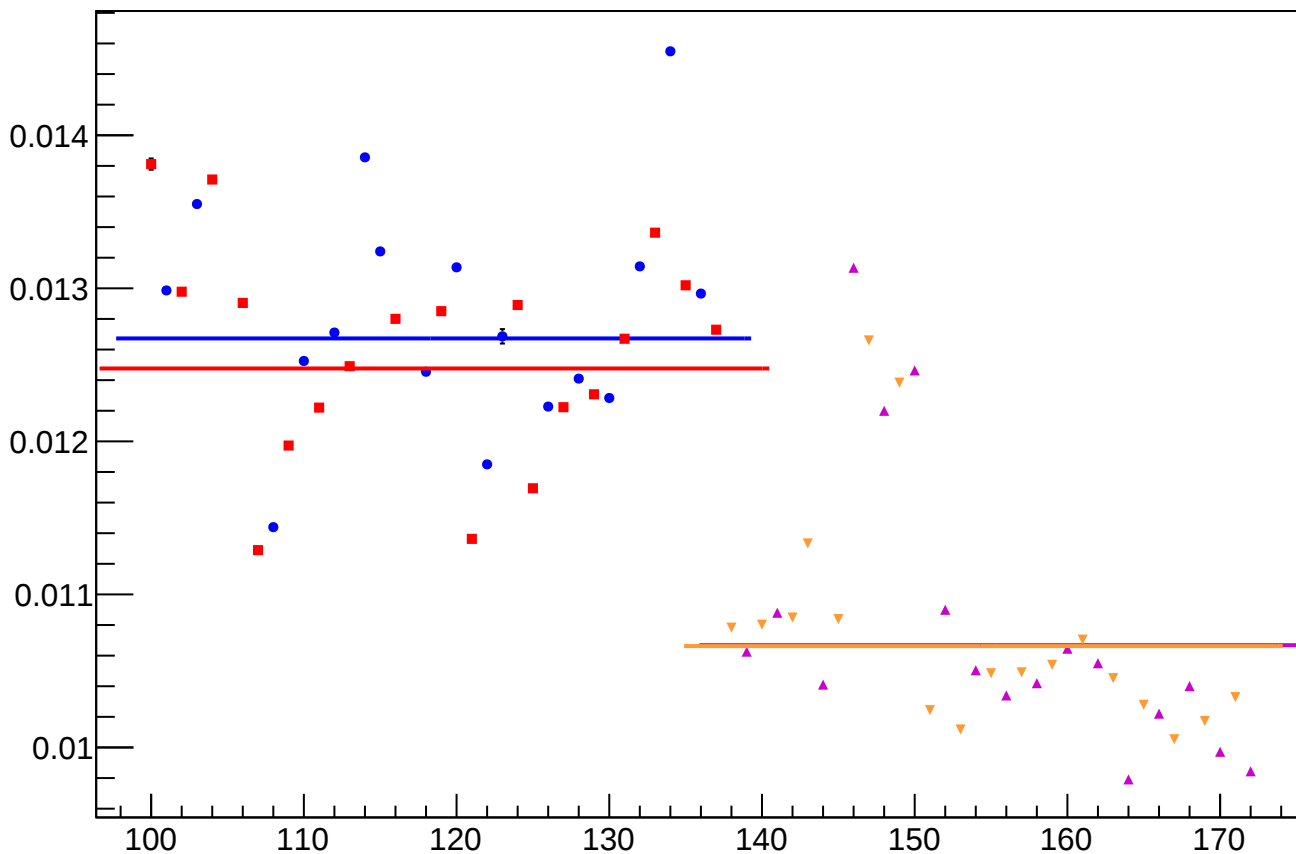
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.692+/-0.000 χ^2/NDF :9303277466.3/33

Out: 1.732+/-0.000 χ^2/NDF :7982406147.5/36

All: 1.713+/-0.000 χ^2/NDF : 17408419086.6/71

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 : 90986.7/17

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 139948.3/16

Left: 0.011+/-0.000 χ^2/NDF : 230939.0/34

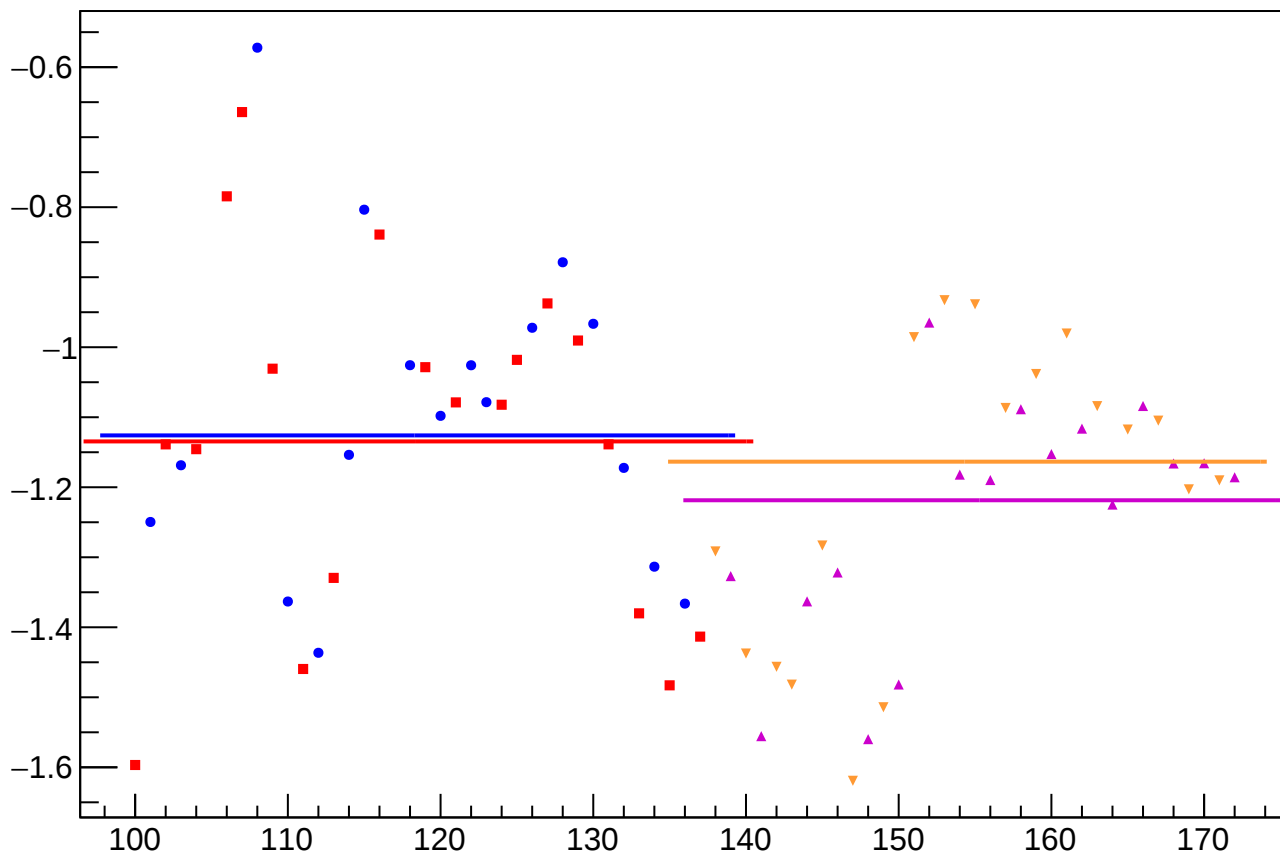
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF : 411050.1/33

Out: 0.011+/-0.000 χ^2/NDF : 339258.5/36

All: 0.011+/-0.000 χ^2/NDF : 750527.8/70

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.163+/-0.000 χ^2/NDF : 7124013915.8/17

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.219+/-0.000 χ^2/NDF : 4519322918.1/16

Left: -1.190+/-0.000 χ^2/NDF : 11936288898.2/34

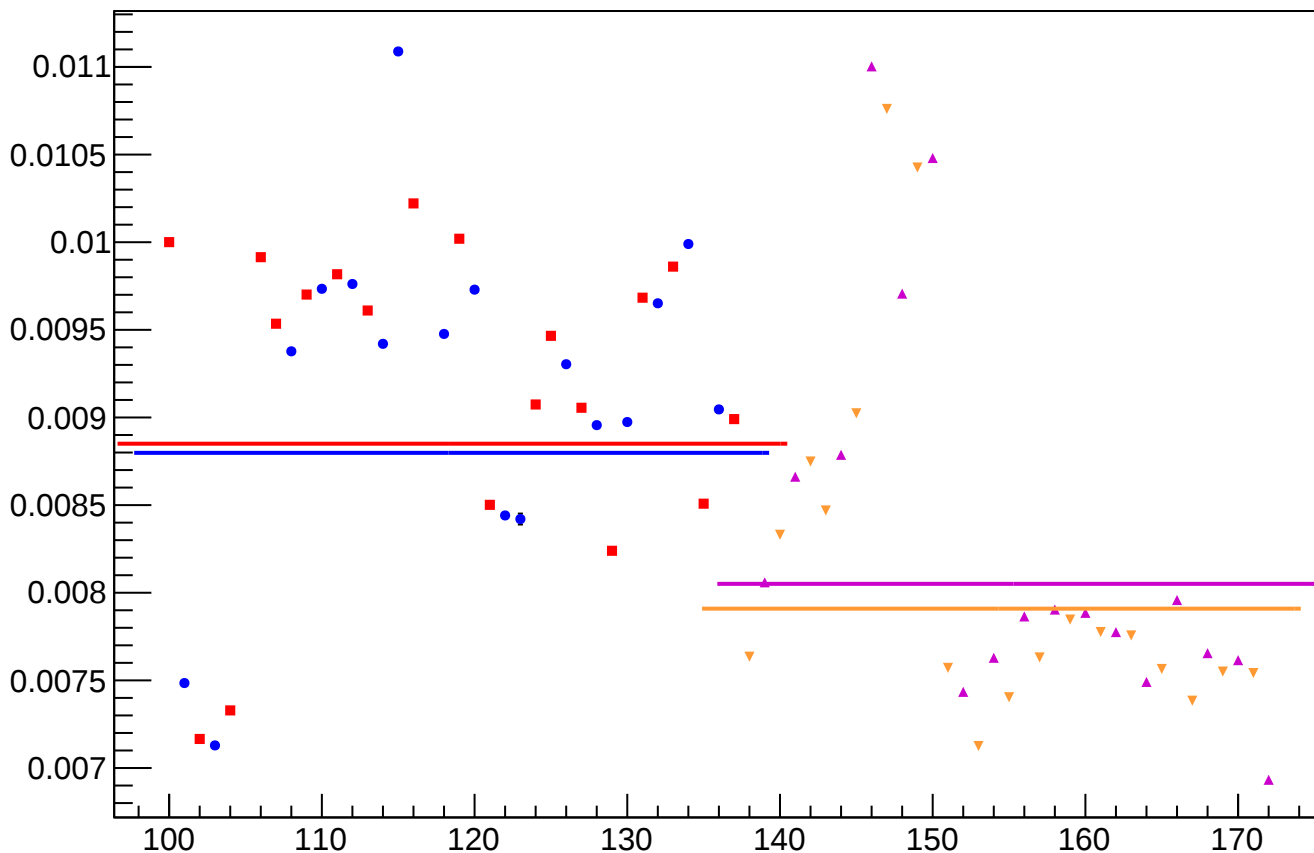
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.190+/-0.000 χ^2/NDF : 8585980725.3/33

Out: -1.155+/-0.000 χ^2/NDF : 10850935534.2/36

All: -1.172+/-0.000 χ^2/NDF : 19611961946.0/79

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008 $\pm$ 0.000 χ^2/NDF : 252412.3/17

Right Out: 0.009 $\pm$ 0.000 χ^2/NDF : 173958.0/18

Left In: 0.008 $\pm$ 0.000 χ^2/NDF : 298071.7/16

Left: 0.008 $\pm$ 0.000 χ^2/NDF : 554348.6/34

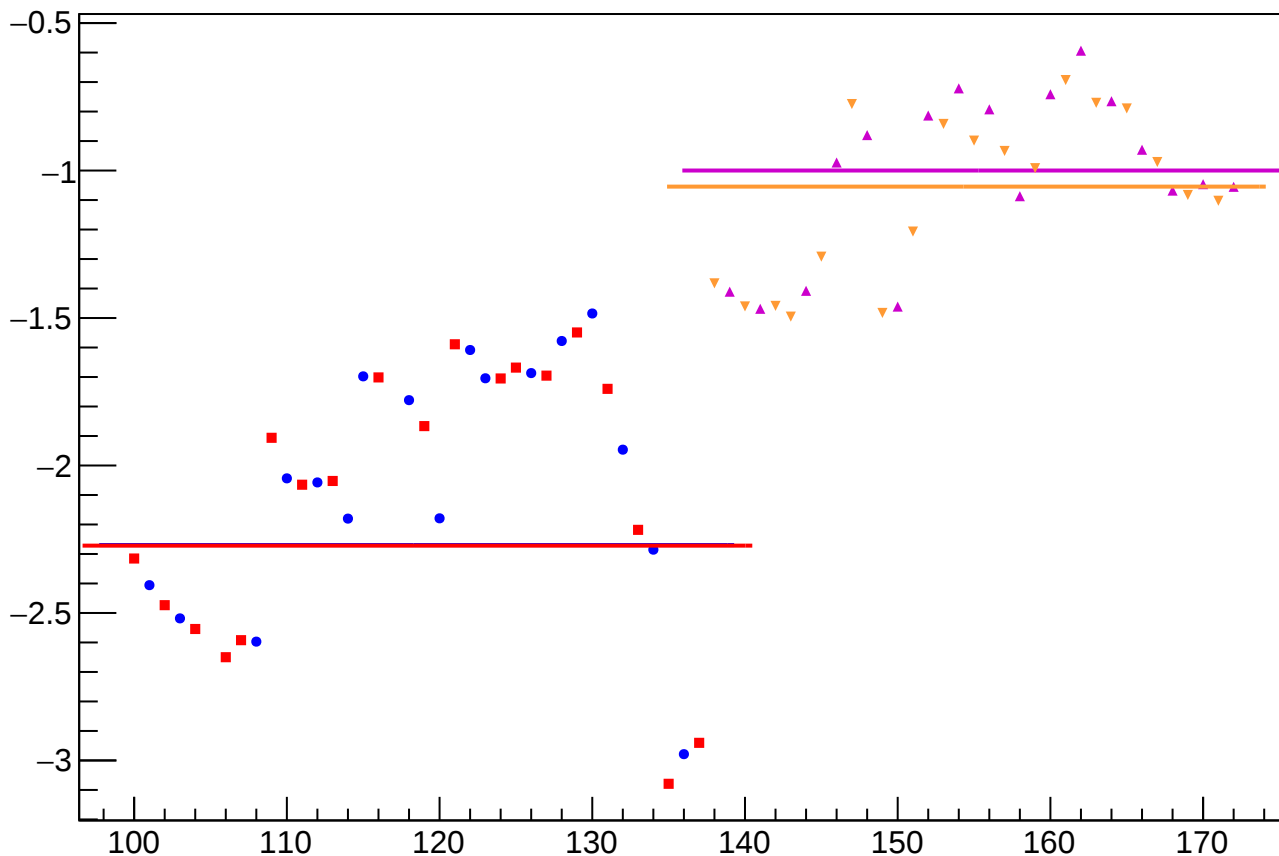
Right: 0.009 $\pm$ 0.000 χ^2/NDF : 325772.0/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 513686.2/33

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 531179.3/36

All: 0.008 $\pm$ 0.000 χ^2/NDF : 1046955.8/70

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.054+/-0.000 χ^2/NDF : 17611071746.6/17

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -1.000+/-0.000 χ^2/NDF : 18092168443.4/16

Left: -1.027+/-0.000 χ^2/NDF : 36149013878.9/34

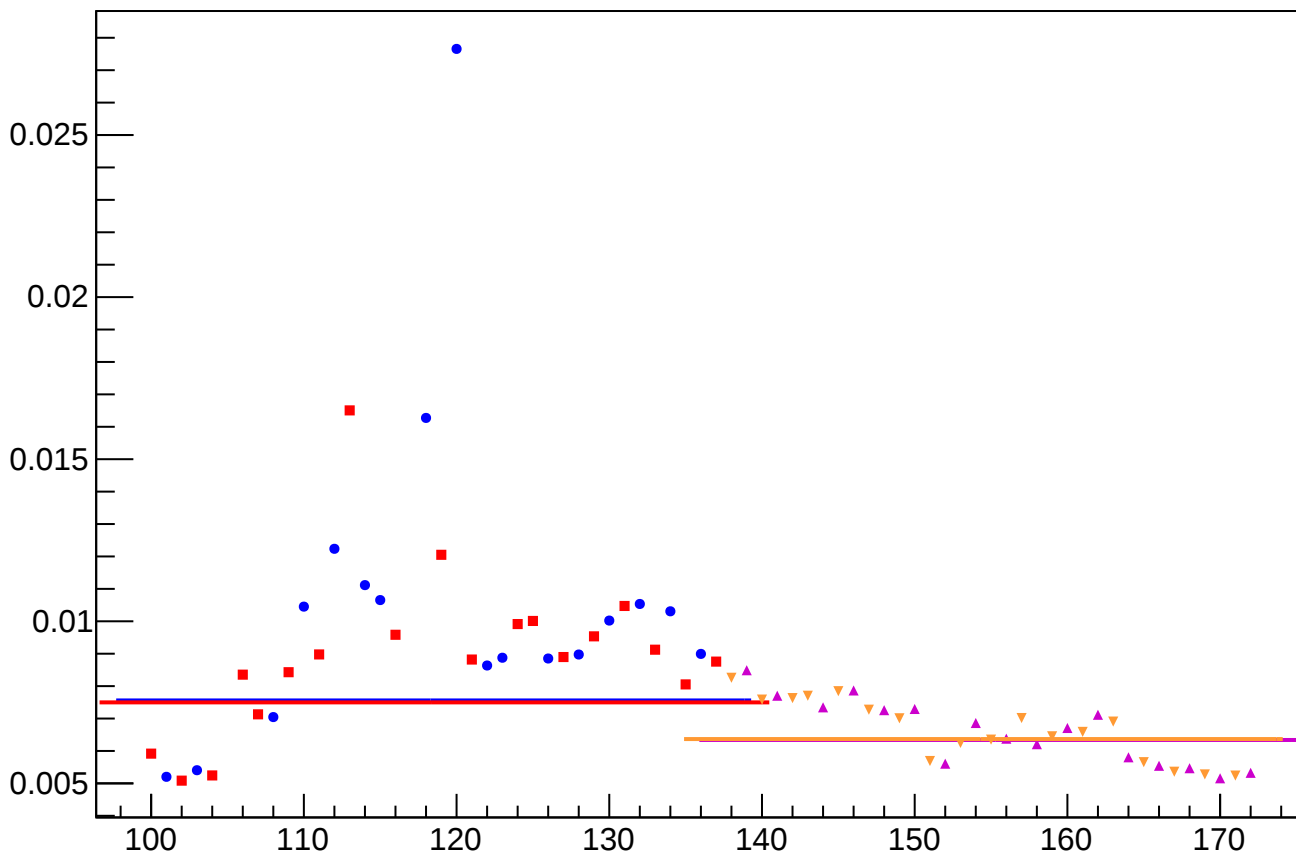
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.288+/-0.000 χ^2/NDF : 145277641877.5/33

Out: -1.359+/-0.000 χ^2/NDF : 147275624366.7/36

All: -1.324+/-0.000 χ^2/NDF : 293526326122.2

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.006+/-0.000 χ^2/NDF : 497535.1/17

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 528949.3/16

Left: 0.006+/-0.000 χ^2/NDF : 1026724.5/34

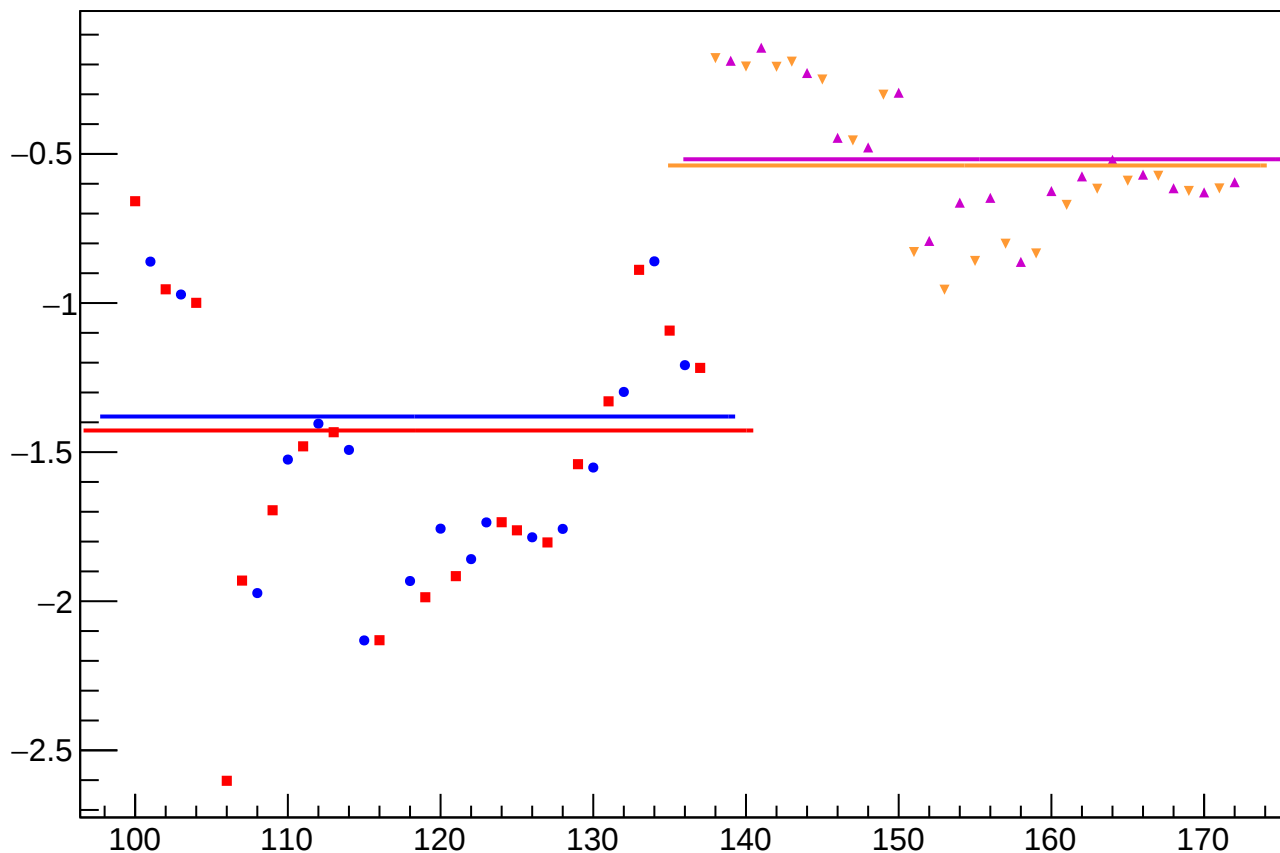
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF : 1952468.8/33

Out: 0.007+/-0.000 χ^2/NDF : 1622791.1/36

All: 0.007+/-0.000 χ^2/NDF : 3575717.5/70

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381 ± 0.000

χ^2/NDF : 20001018652.5/16

Left: -0.528 ± 0.000

χ^2/NDF : 75302277568.9/34

Left Out: -0.539 ± 0.000

χ^2/NDF : 45312322362.3/17

Right: -1.406 ± 0.000

χ^2/NDF : 49770978716.8/35

Right Out: -1.427 ± 0.000

χ^2/NDF : 29616178528.0/18

In: -0.652 ± 0.000

χ^2/NDF : 131433441663.4/33

Out: -0.693 ± 0.000

χ^2/NDF : 174066011010.1/36

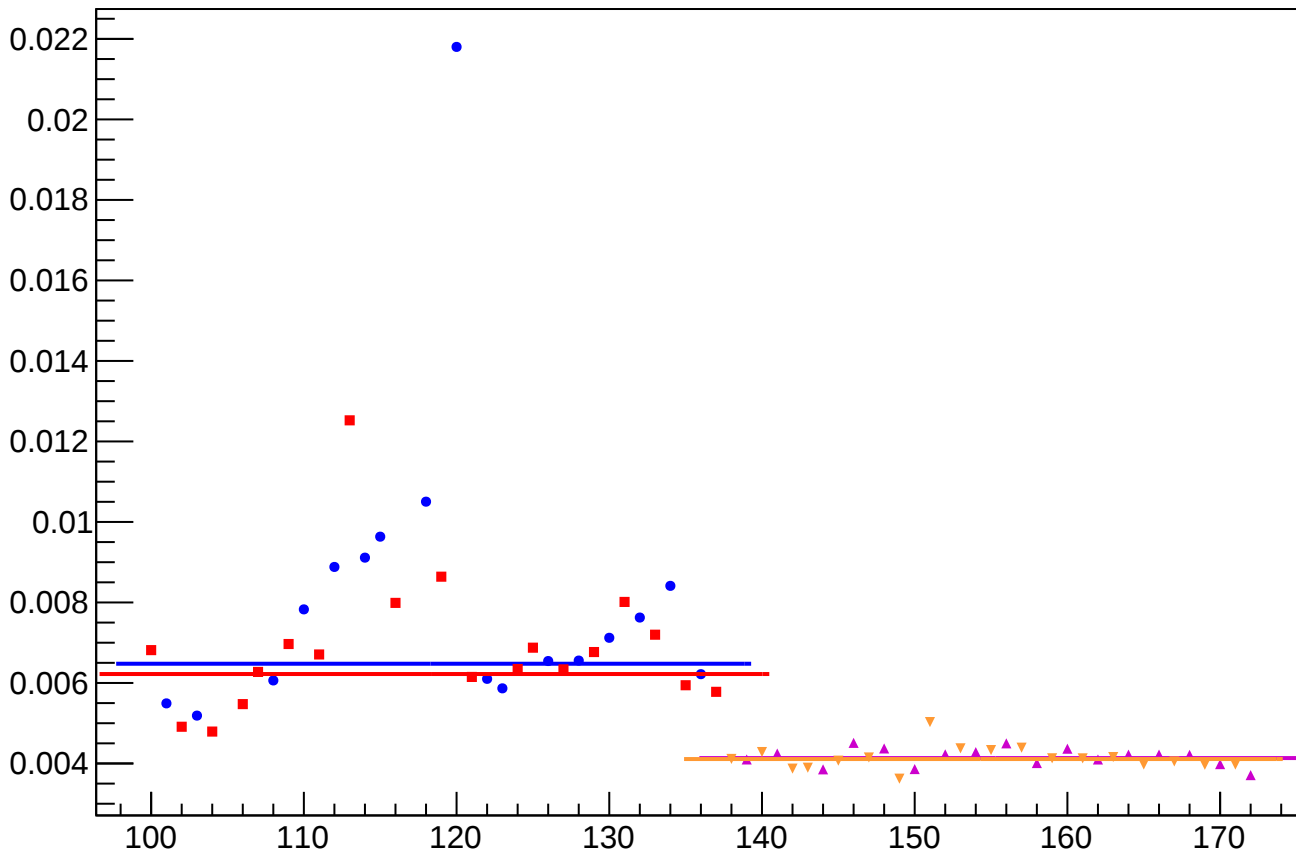
Left In: -0.518 ± 0.000

χ^2/NDF : 29835665546.3/16

All: -0.673 ± 0.000

χ^2/NDF : 306221627832.9

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 : 94288.7/17

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF : 69544.6/16

Left: 0.004+/-0.000 χ^2/NDF : 164256.0/34

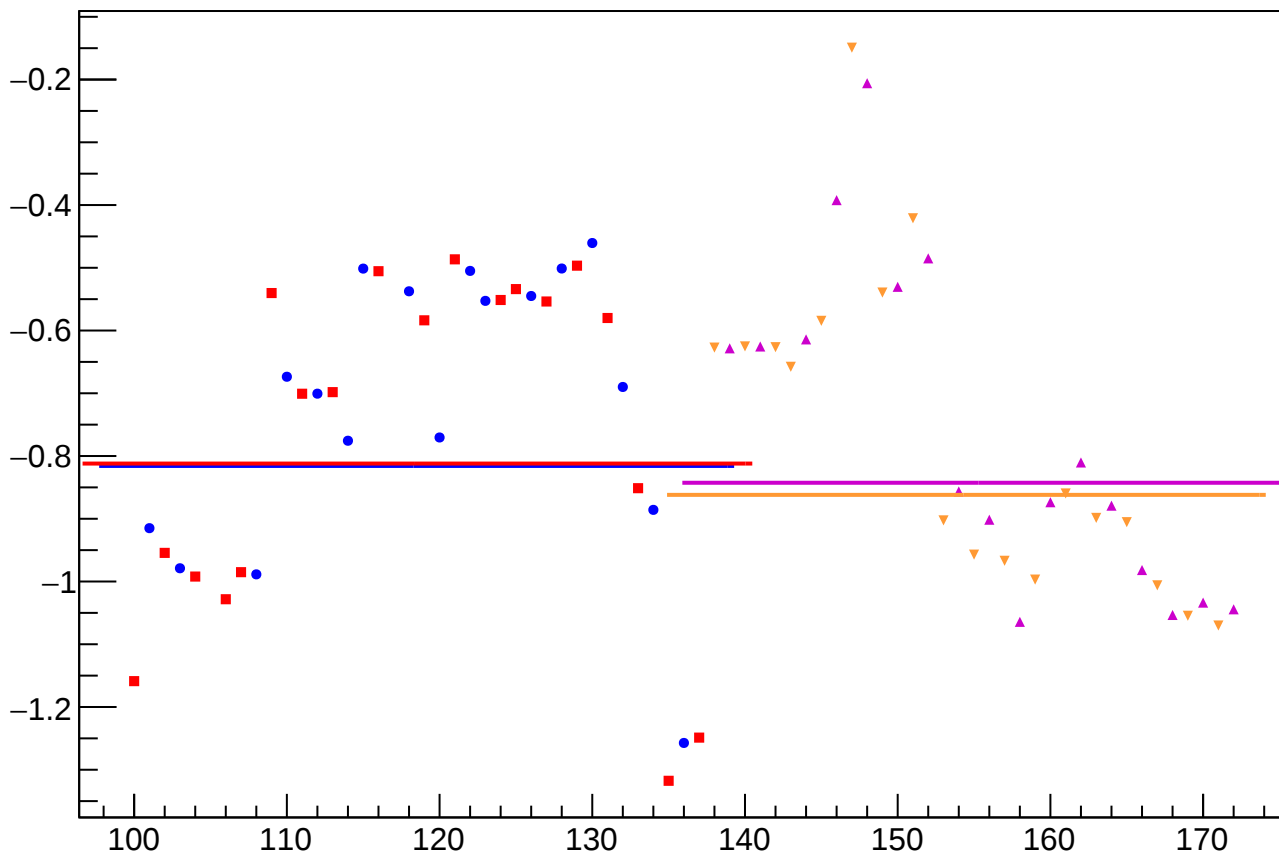
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.004+/-0.000 χ^2/NDF : 1846251.4/33

Out: 0.004+/-0.000 χ^2/NDF : 1637381.0/36

All: 0.004+/-0.000 χ^2/NDF : 3484032.2/70

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 ± 0.000 $\chi^2/\text{NDF}: 14172884795.2/16$

Left Out: -0.862 ± 0.000 $\chi^2/\text{NDF}: 37154856623.2/17$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 16815852448.9/18$

Left In: -0.843 ± 0.000 $\chi^2/\text{NDF}: 41456338148.6/16$

Left: -0.852 ± 0.000 $\chi^2/\text{NDF}: 78761761643.3/34$

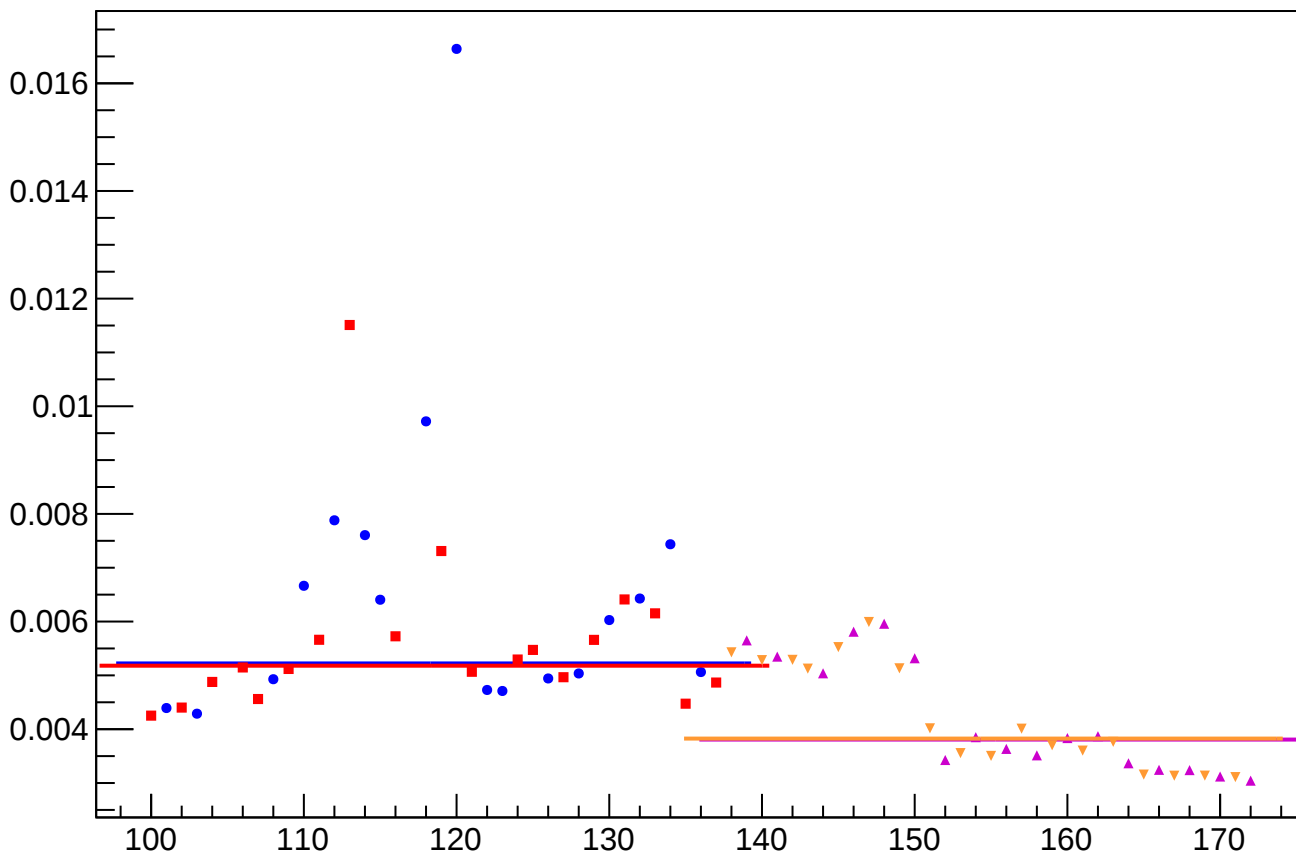
Right: -0.814 ± 0.000 $\chi^2/\text{NDF}: 30990213454.0/35$

In: -0.837 ± 0.000 $\chi^2/\text{NDF}: 55742832773.0/33$

Out: -0.851 ± 0.000 $\chi^2/\text{NDF}: 54403060450.2/36$

All: -0.844 ± 0.000 $\chi^2/\text{NDF}: 110242639301.4$

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF :1088298.9/17

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF :1149973.2/16

Left: 0.004+/-0.000 χ^2/NDF : 2238546.9/34

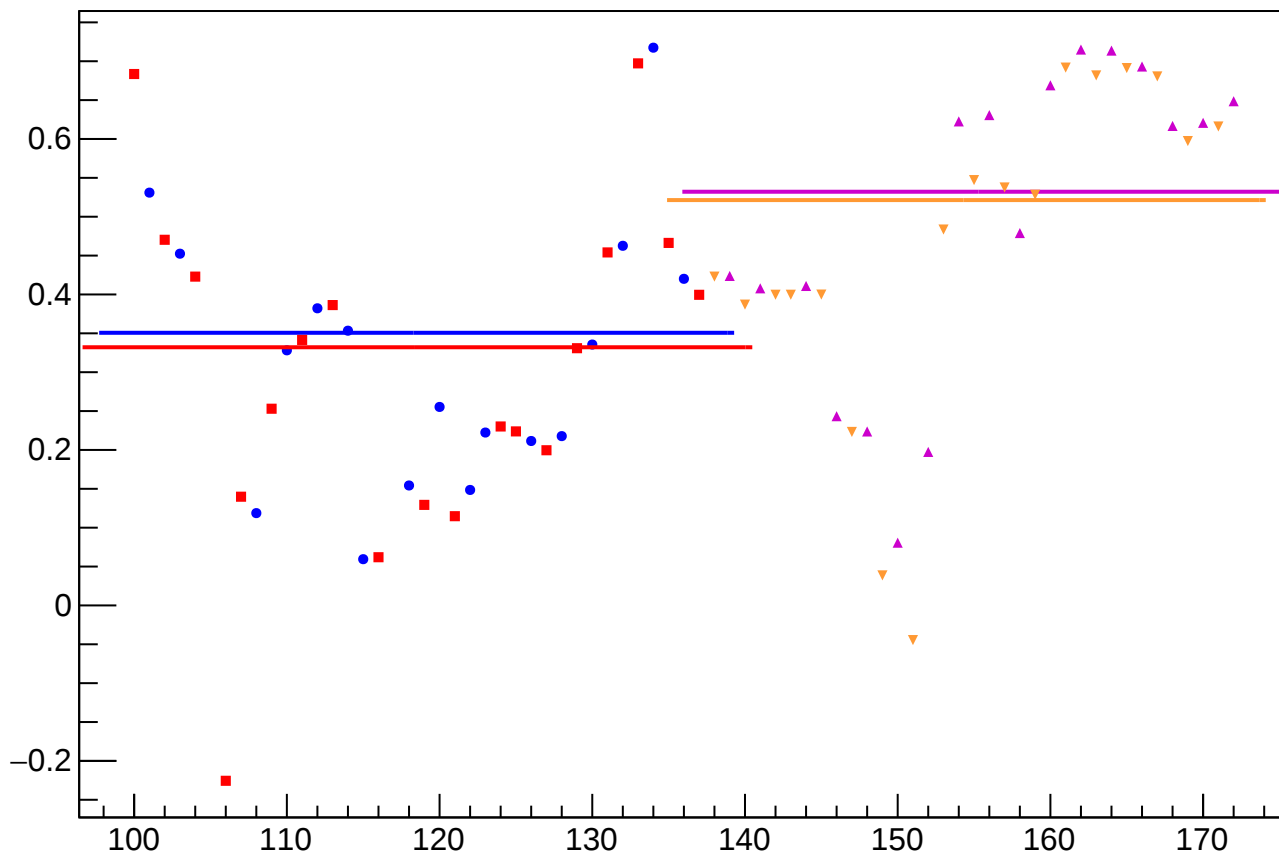
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2445988.0/33

Out: 0.004+/-0.000 χ^2/NDF :2089407.4/36

All: 0.004+/-0.000 χ^2/NDF : 4536585.7/70

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.527+/-0.000

χ^2/NDF : 75214681772.0/34

Left Out: 0.521+/-0.000

χ^2/NDF : 38623607652.5/17

Right: 0.341+/-0.000

χ^2/NDF : 19270918435.8/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11796213425.9/18

In: 0.489+/-0.000

χ^2/NDF : 52641319556.3/33

Out: 0.473+/-0.000

χ^2/NDF : 60901432782.3/36

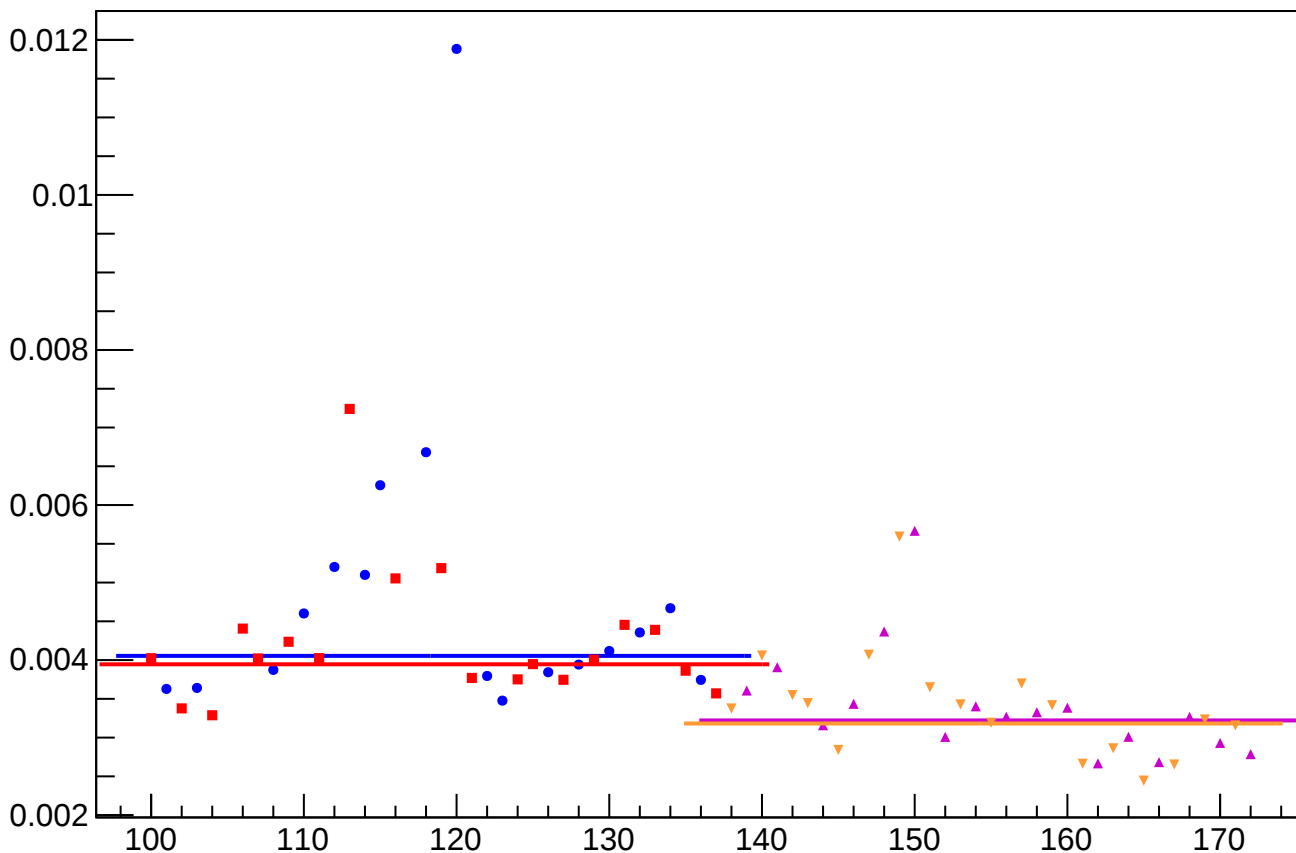
Left In: 0.532+/-0.000

χ^2/NDF : 36526092103.9/16

All: 0.481+/-0.000

χ^2/NDF : 113738744200.7

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 : 708645.0/17

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 614054.2/16

Left: 0.003+/-0.000 χ^2/NDF : 1324471.6/34

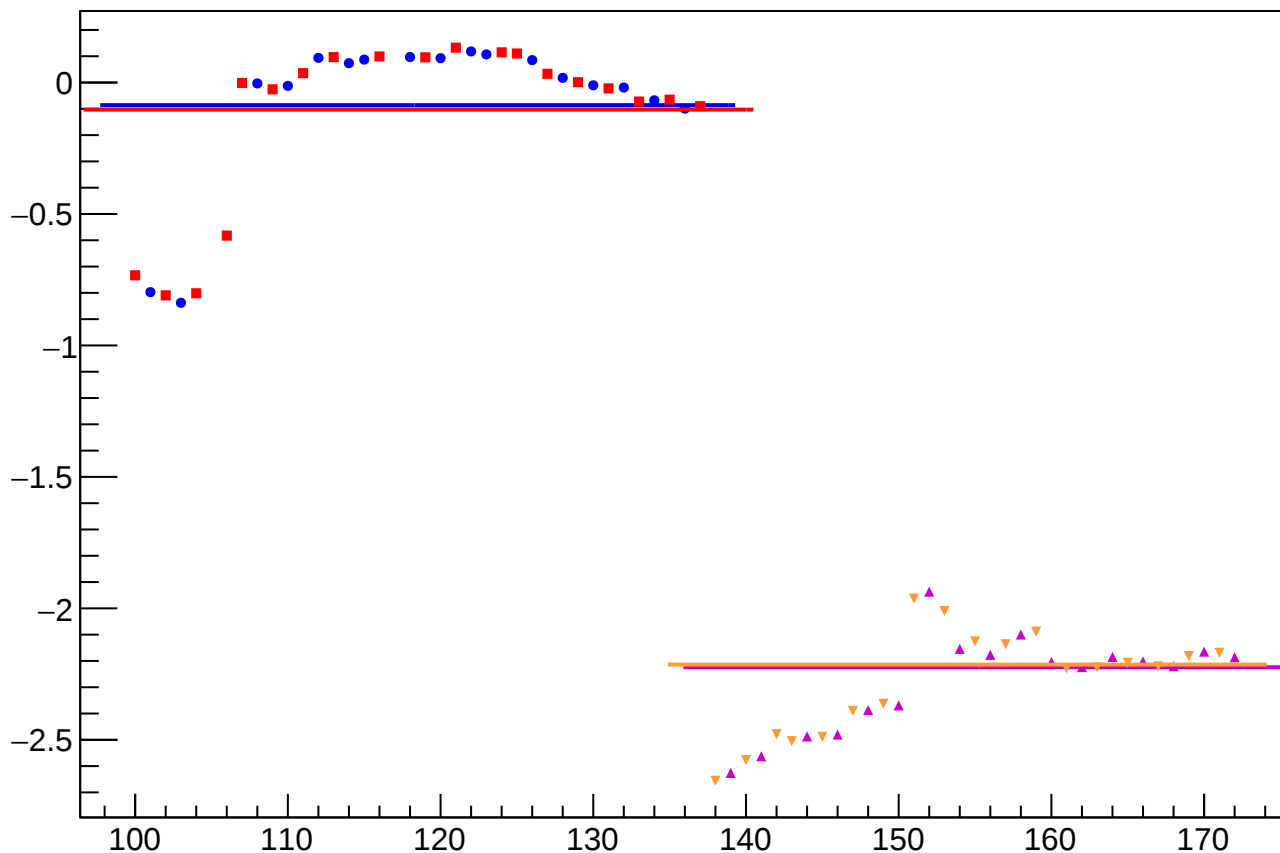
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1436015.8/33

Out: 0.003+/-0.000 χ^2/NDF : 1310715.0/36

All: 0.003+/-0.000 χ^2/NDF : 2749318.6/70

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.214+/-0.000 χ^2/NDF : 3443483031.5/17

Right Out: -0.103+/-0.000 χ^2/NDF : 5553039516.7/18

Left In: -2.224+/-0.000 χ^2/NDF : 2738948603.1/16

Left: -2.219+/-0.000 χ^2/NDF : 6188159604.1/34

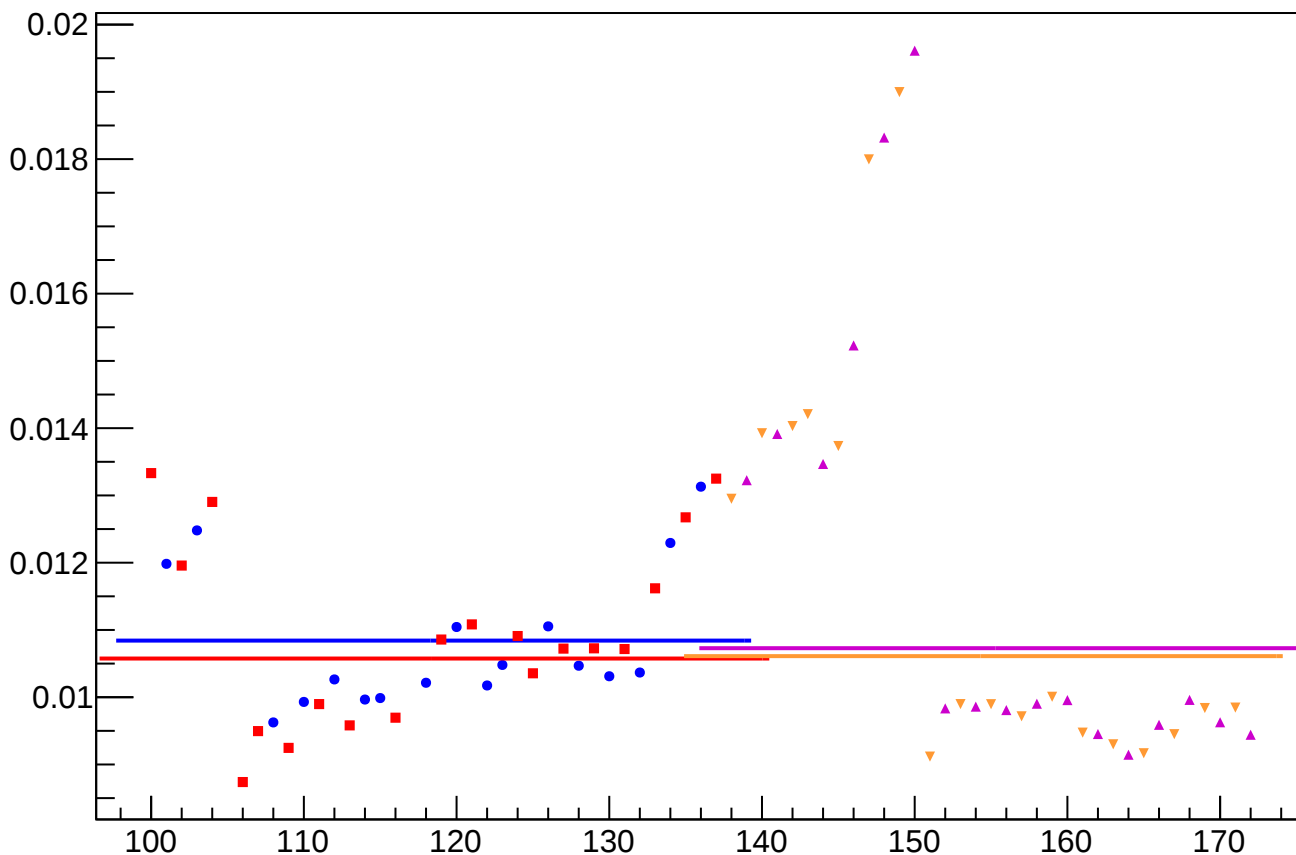
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.493+/-0.000 χ^2/NDF : 177592531828.9/33

Out: -1.463+/-0.000 χ^2/NDF : 189049435897.7/36

All: -1.478+/-0.000 χ^2/NDF : 366718215190.5

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :1125634.1/17

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.011+/-0.000 χ^2/NDF :1173488.4/16

Left: 0.011+/-0.000 χ^2/NDF : 2300672.9/34

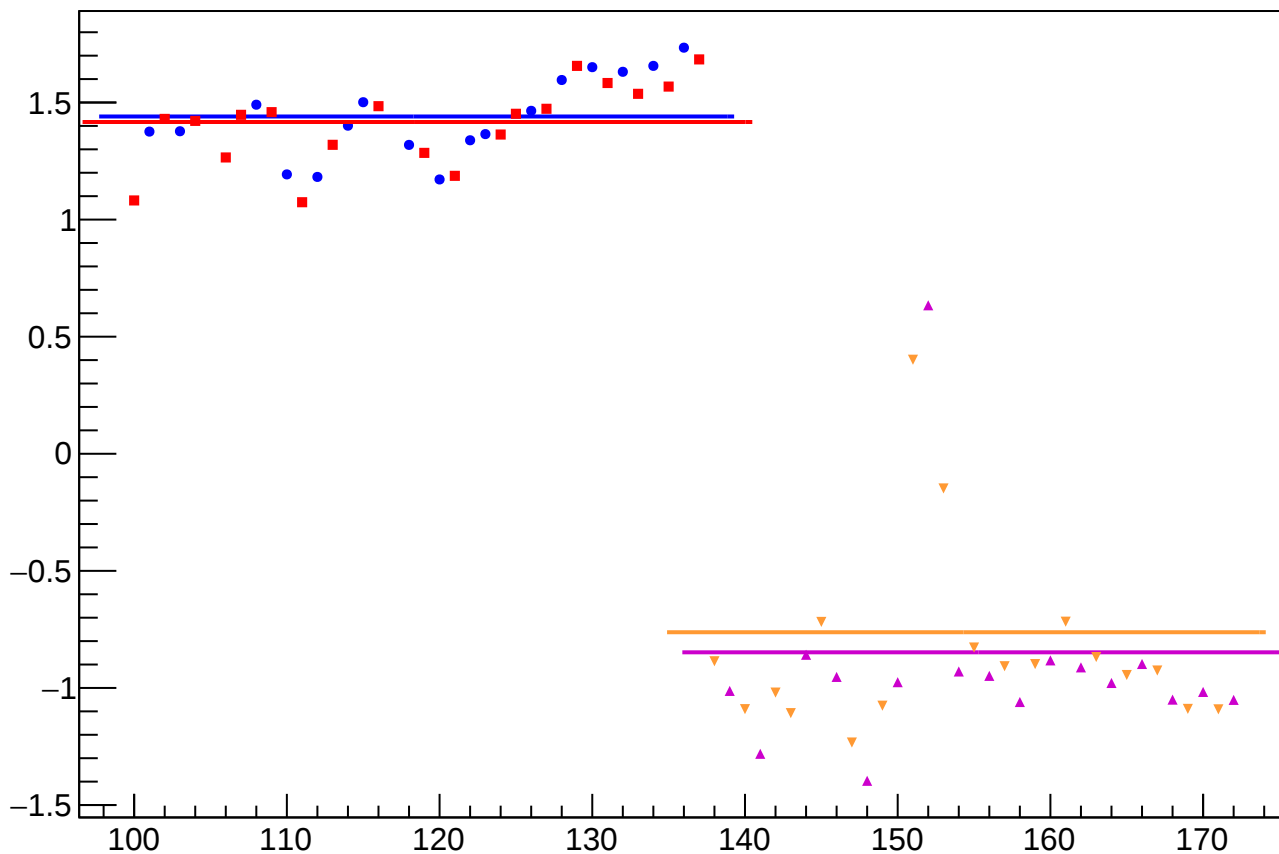
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1298696.8/33

Out: 0.011+/-0.000 χ^2/NDF :1304703.7/36

All: 0.011+/-0.000 χ^2/NDF : 2608294.7/70

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.762 $\pm$ 0.000 χ^2 /NDF: 33813498407.8/17

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674064512.3/18

Left In: -0.848 $\pm$ 0.000 χ^2 /NDF: 41263041722.3/16

Left: -0.805 $\pm$ 0.000 χ^2 /NDF: 75743410506.6/34

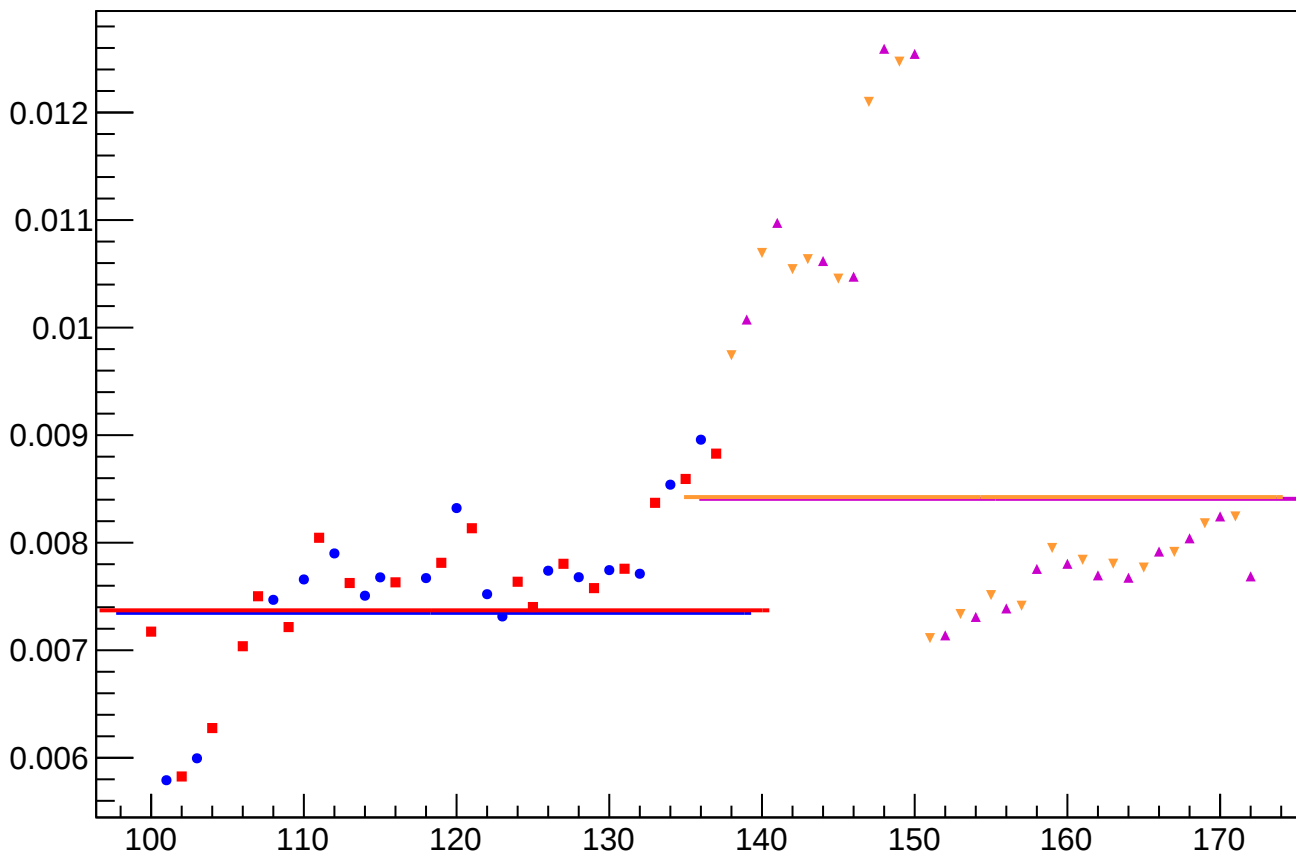
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: 0.077 $\pm$ 0.000 χ^2 /NDF: 425294466369.9/33

Out: 0.139 $\pm$ 0.000 χ^2 /NDF: 395951865786.8/36

All: 0.109 $\pm$ 0.000 χ^2 /NDF: 821832607646.4

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.008+/-0.000 χ^2/NDF : 741357.2/17

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 816255.6/16

Left: 0.008+/-0.000 χ^2/NDF : 1557660.1/34

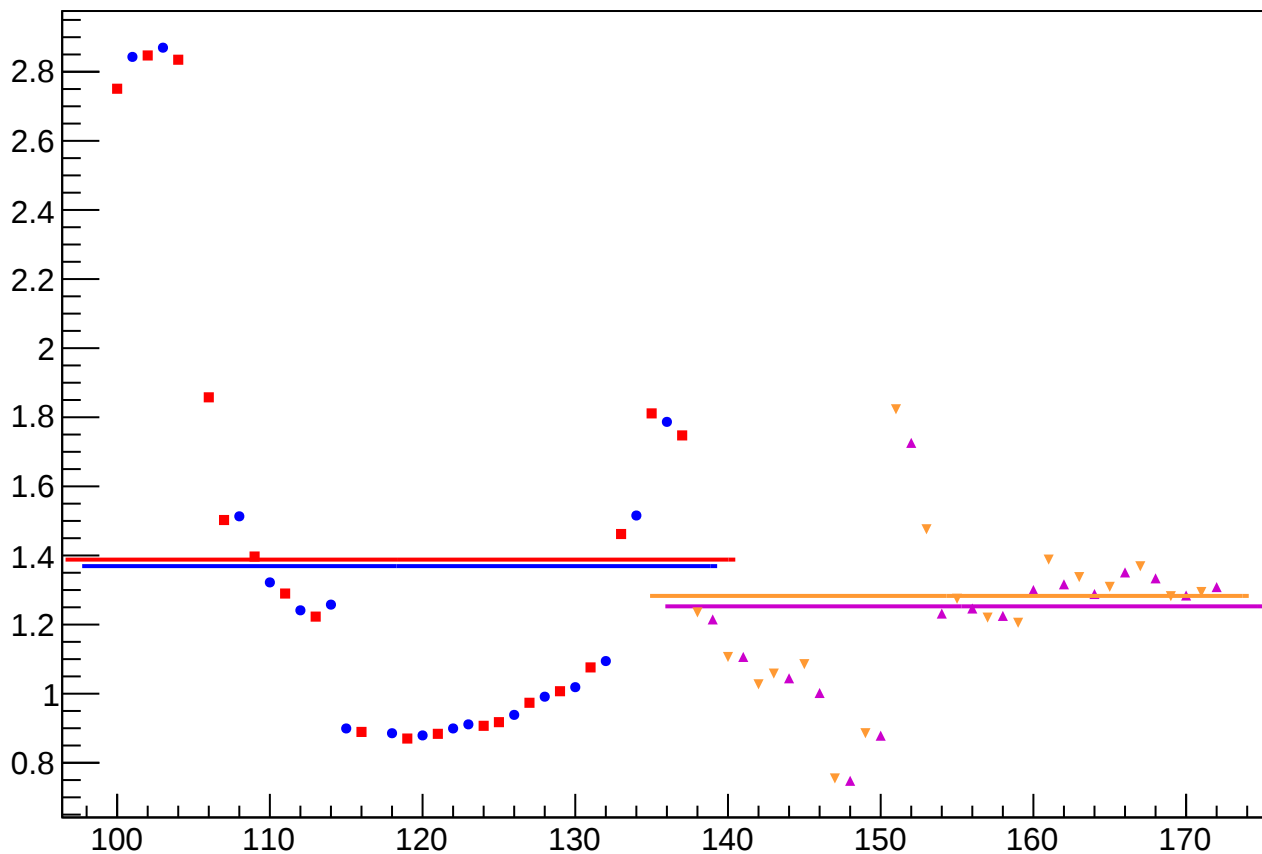
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1207833.8/33

Out: 0.008+/-0.000 χ^2/NDF : 1081944.5/36

All: 0.008+/-0.000 χ^2/NDF : 2289804.8/70

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.283+/-0.000 χ^2/NDF : 9116632402.4/17

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.253+/-0.000 χ^2/NDF : 7283931556.8/16

Left: 1.268+/-0.000 χ^2/NDF : 16486204554.1/34

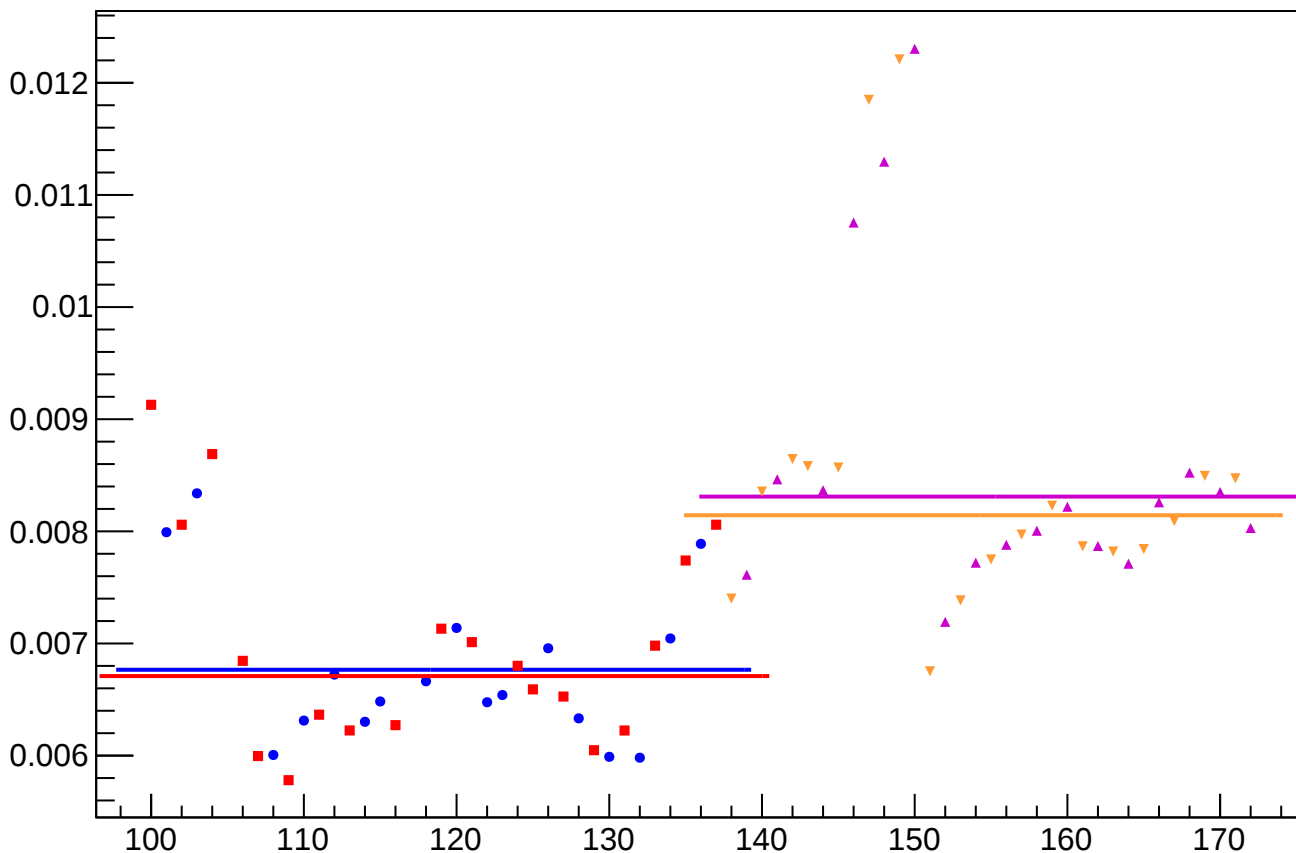
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.304+/-0.000 χ^2/NDF : 62583660075.0/33

Out: 1.330+/-0.000 χ^2/NDF : 59968377880.9/36

All: 1.317+/-0.000 χ^2/NDF : 122663516180.2

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 416780.1/17

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 430712.7/16

Left: 0.008+/-0.000 χ^2/NDF : 852698.2/34

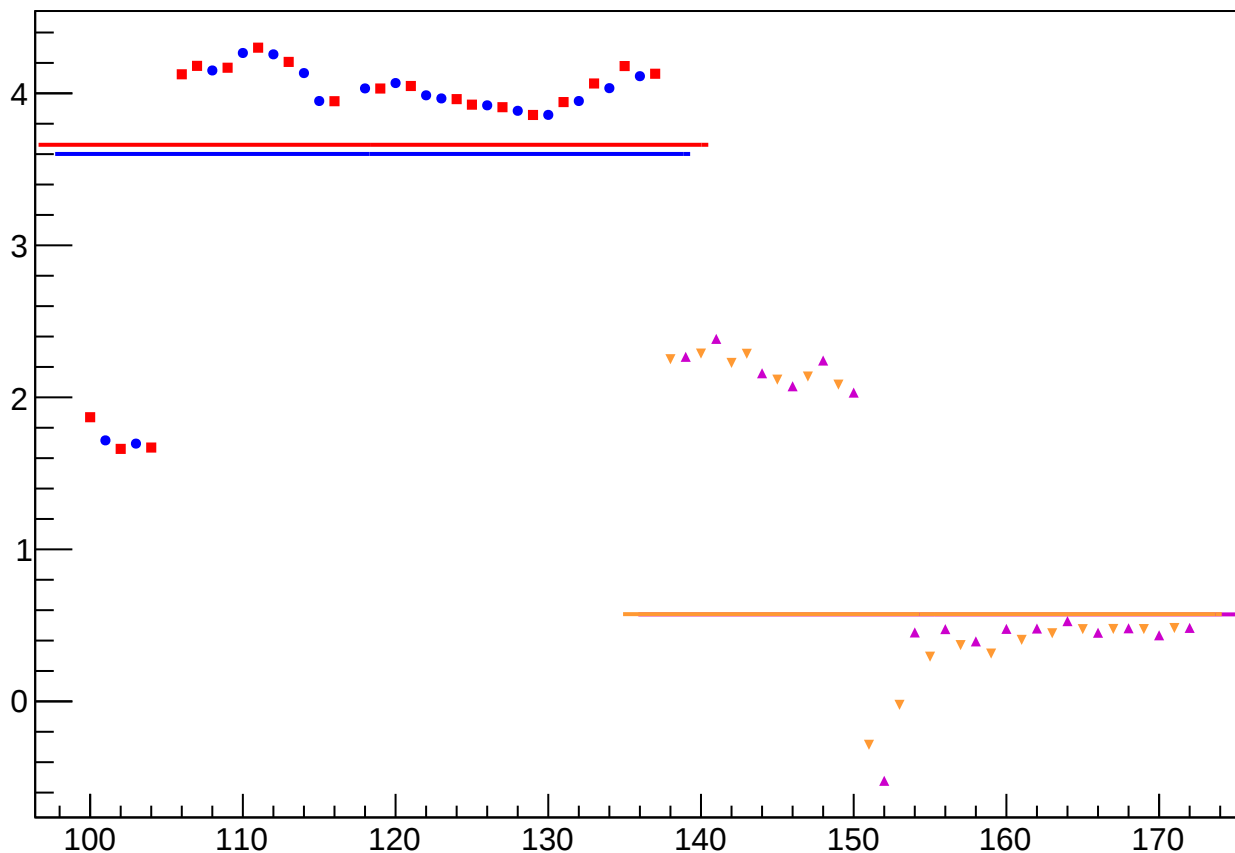
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 975468.9/33

Out: 0.008+/-0.000 χ^2/NDF : 959129.0/36

All: 0.008+/-0.000 χ^2/NDF : 1939853.8/70

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.574+/-0.000 χ^2/NDF : 257944665883.3/17

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.572+/-0.000 χ^2/NDF : 254927167234.2/16

Left: 0.573+/-0.000 χ^2/NDF : 512872565251.7/34

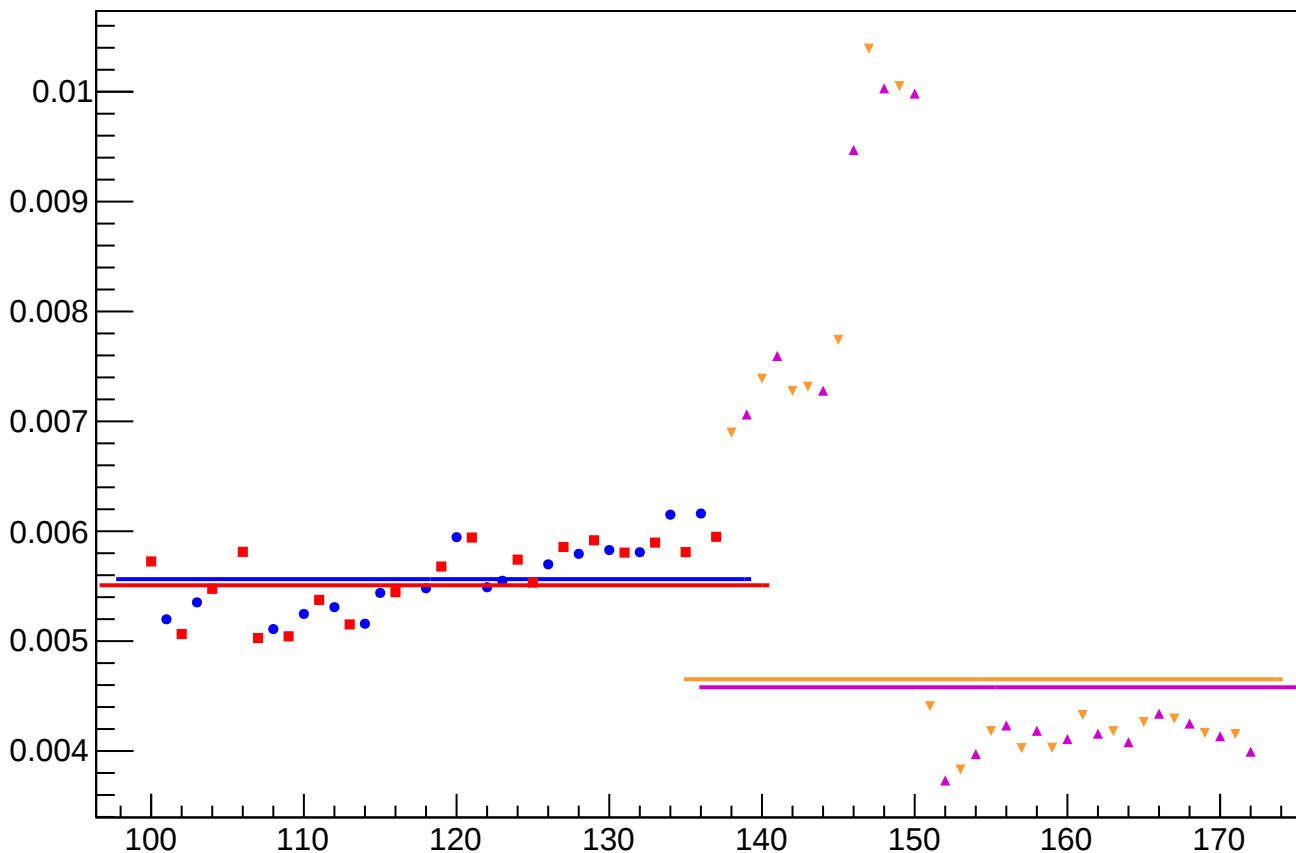
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.422+/-0.000 χ^2/NDF : 1866161383434.4/33

Out: 1.484+/-0.000 χ^2/NDF : 1991353774837.2/36

All: 1.453+/-0.000 χ^2/NDF : 3859039753178.

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 :1967984.0/17

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF :2177739.8/16

Left: 0.005+/-0.000 χ^2/NDF : 4148675.9/34

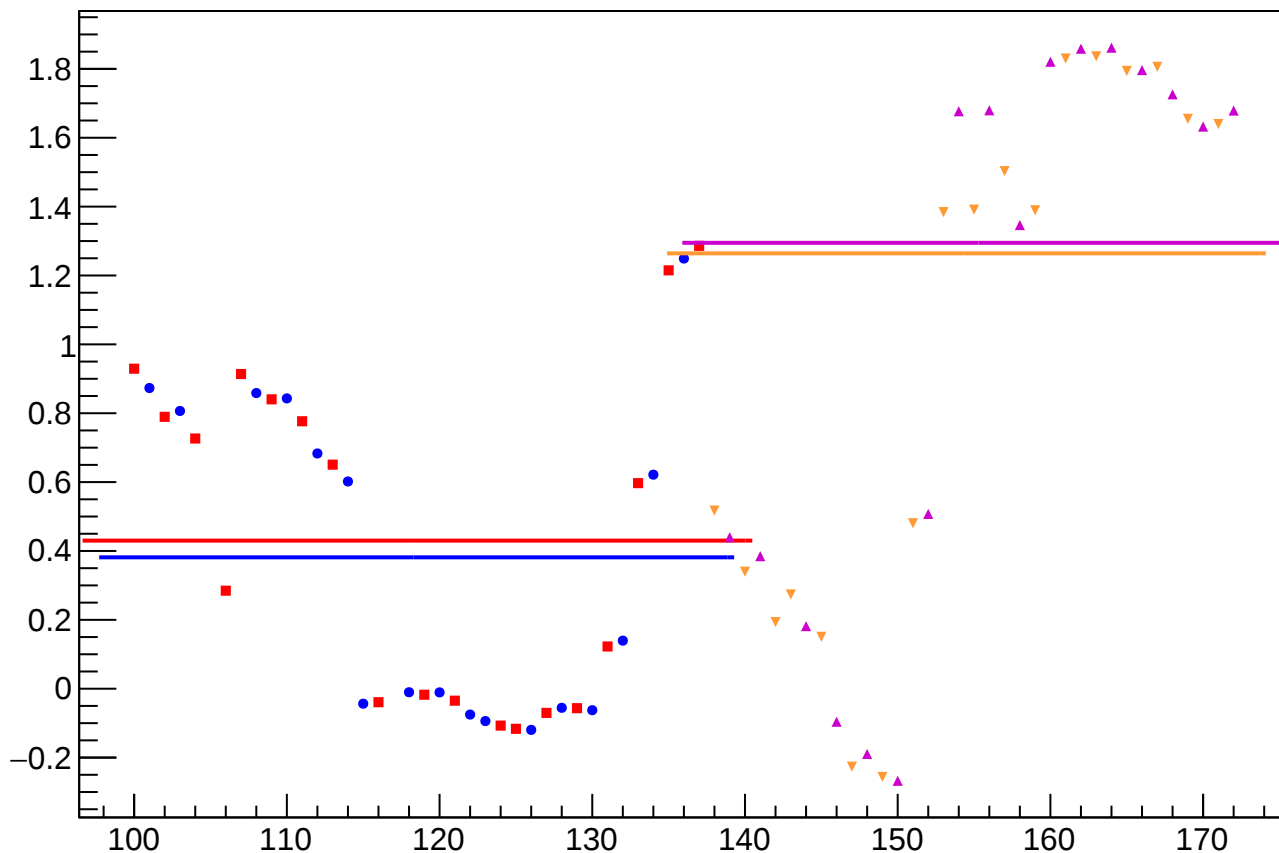
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2526286.4/33

Out: 0.005+/-0.000 χ^2/NDF :2257141.7/36

All: 0.005+/-0.000 χ^2/NDF : 4785321.0/70

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 1.264 $\pm$ 0.000 χ^2 /NDF: 40430094974.5/17

Right Out: 0.430 $\pm$ 0.000 χ^2 /NDF: 6676199135.9/18

Left In: 1.295 $\pm$ 0.000 χ^2 /NDF: 46061657167.5/16

Left: 1.280 $\pm$ 0.000 χ^2 /NDF: 86537194100.3/34

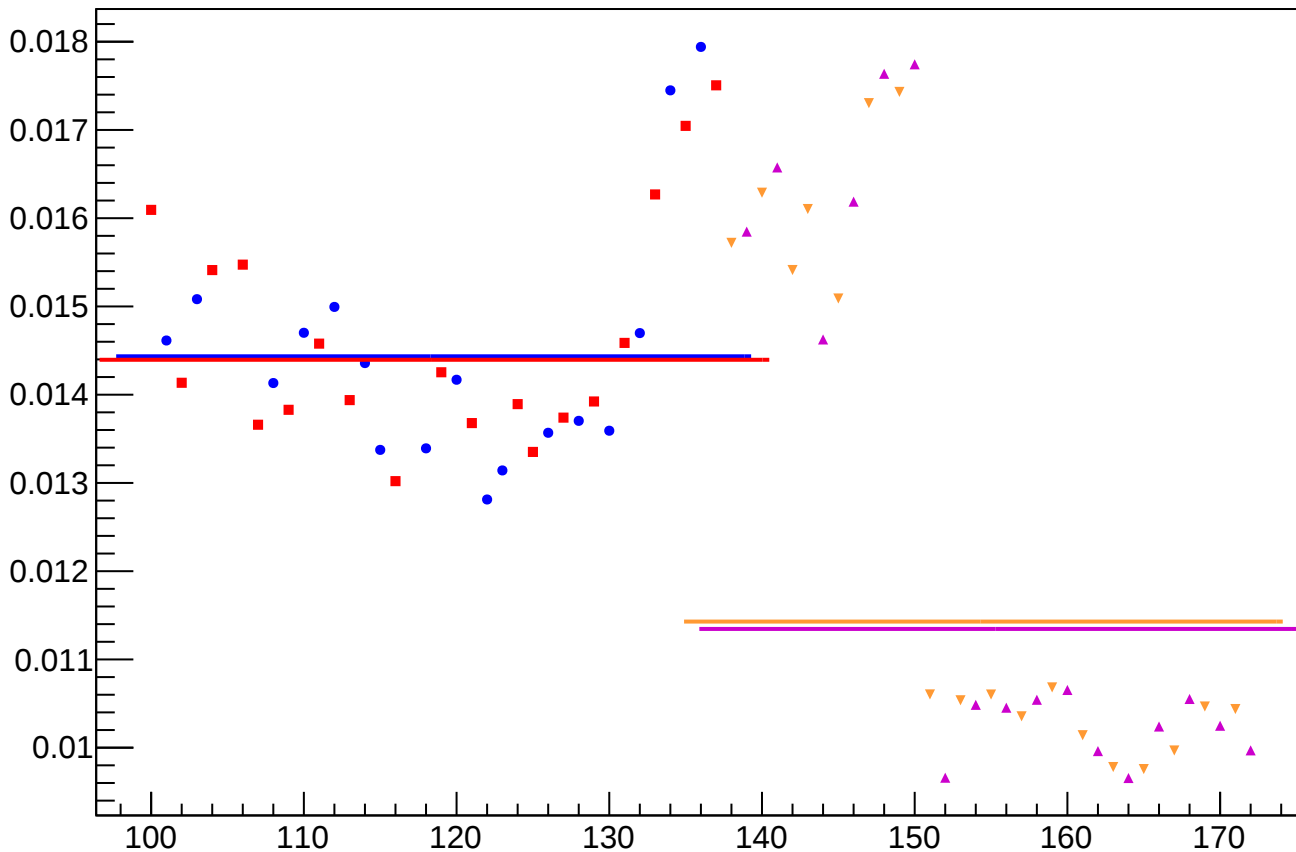
Right: 0.406 $\pm$ 0.000 χ^2 /NDF: 13839390791.2/35

In: 1.069 $\pm$ 0.000 χ^2 /NDF: 73154810751.0/33

Out: 1.051 $\pm$ 0.000 χ^2 /NDF: 64454992664.1/36

All: 1.060 $\pm$ 0.000 χ^2 /NDF: 137632246642.2

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.011+/-0.000 χ^2/NDF : 1085658.2/17

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.011+/-0.000 χ^2/NDF : 1147681.7/16

Left: 0.011+/-0.000 χ^2/NDF : 2234017.6/34

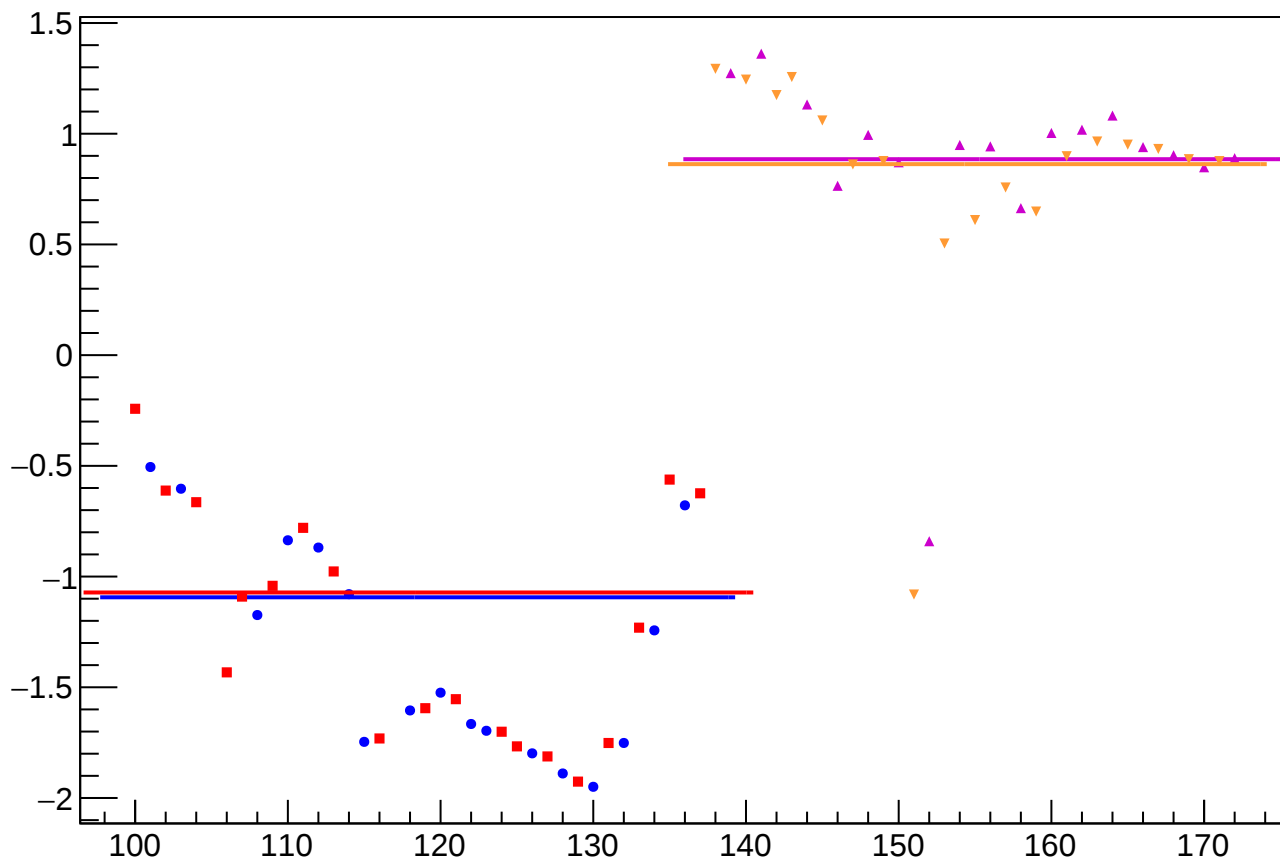
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF : 1714833.4/33

Out: 0.012+/-0.000 χ^2/NDF : 1598944.7/36

All: 0.012+/-0.000 χ^2/NDF : 3314609.3/70

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094 ± 0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.863 ± 0.000 χ^2/NDF : 124811802503.4/17

Right Out: -1.072 ± 0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.885 ± 0.000 χ^2/NDF : 145802825569.4/16

Left: 0.874 ± 0.000 χ^2/NDF : 270833696977.0/34

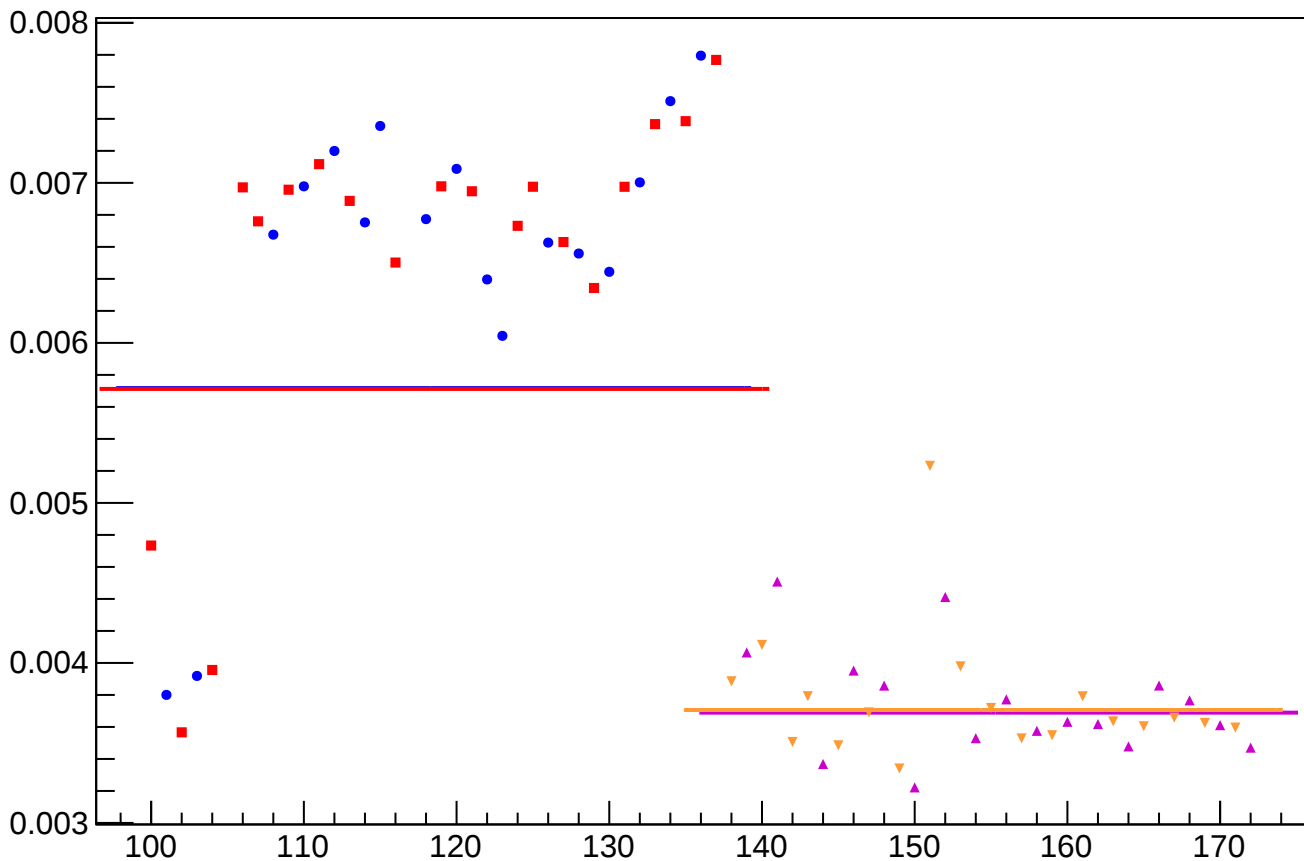
Right: -1.083 ± 0.000 χ^2/NDF : 102900070258.1/35

In: 0.544 ± 0.000 χ^2/NDF : 790345079548.1/33

Out: 0.522 ± 0.000 χ^2/NDF : 753896069411.4/36

All: 0.533 ± 0.000 χ^2/NDF : 1544504103146

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 :163770.6/17

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :177536.0/16

Left: 0.004+/-0.000 χ^2/NDF : 341545.0/34

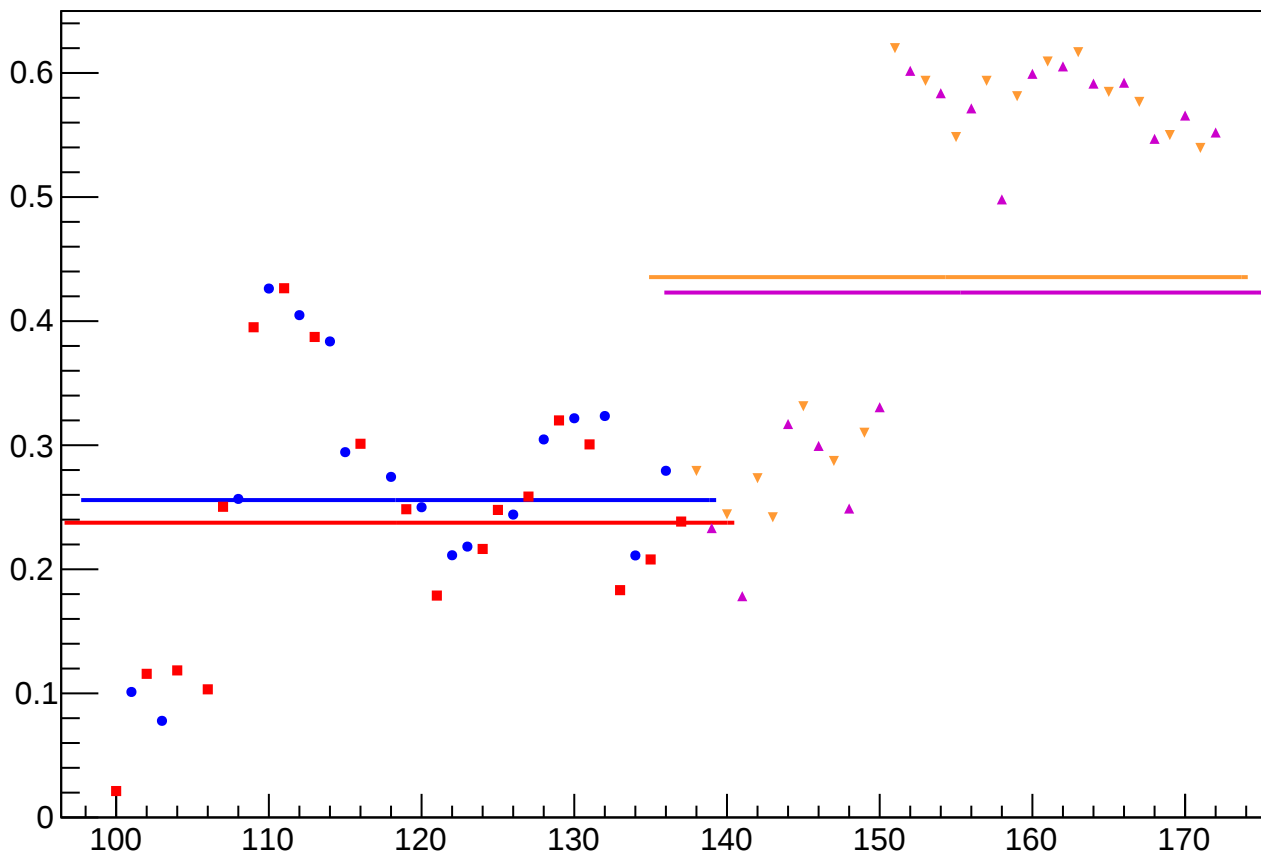
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2252057.3/33

Out: 0.004+/-0.000 χ^2/NDF :2340443.1/36

All: 0.004+/-0.000 χ^2/NDF : 4592949.8/70

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.435+/-0.000 χ^2/NDF : 84682324453.2/17

Right Out: 0.238+/-0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.423+/-0.000 χ^2/NDF : 83046792643.3/16

Left: 0.429+/-0.000 χ^2/NDF : 167995928614.5/34

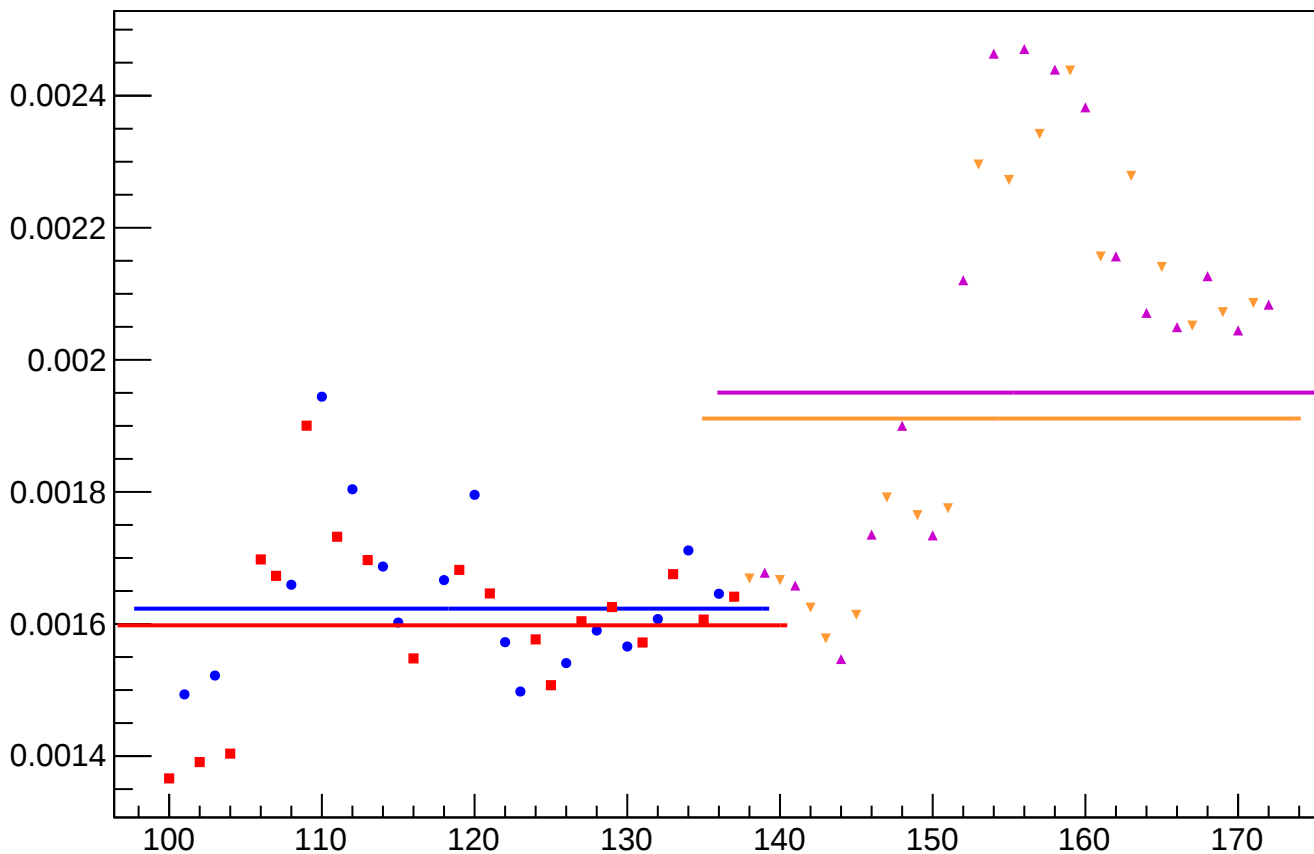
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.352+/-0.000 χ^2/NDF : 143849072296.0/33

Out: 0.350+/-0.000 χ^2/NDF : 171284135855.3/36

All: 0.351+/-0.000 χ^2/NDF : 315149864138.6

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 :540798.9/17

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF :563419.6/16

Left: 0.002+/-0.000 χ^2/NDF : 1109534.4/34

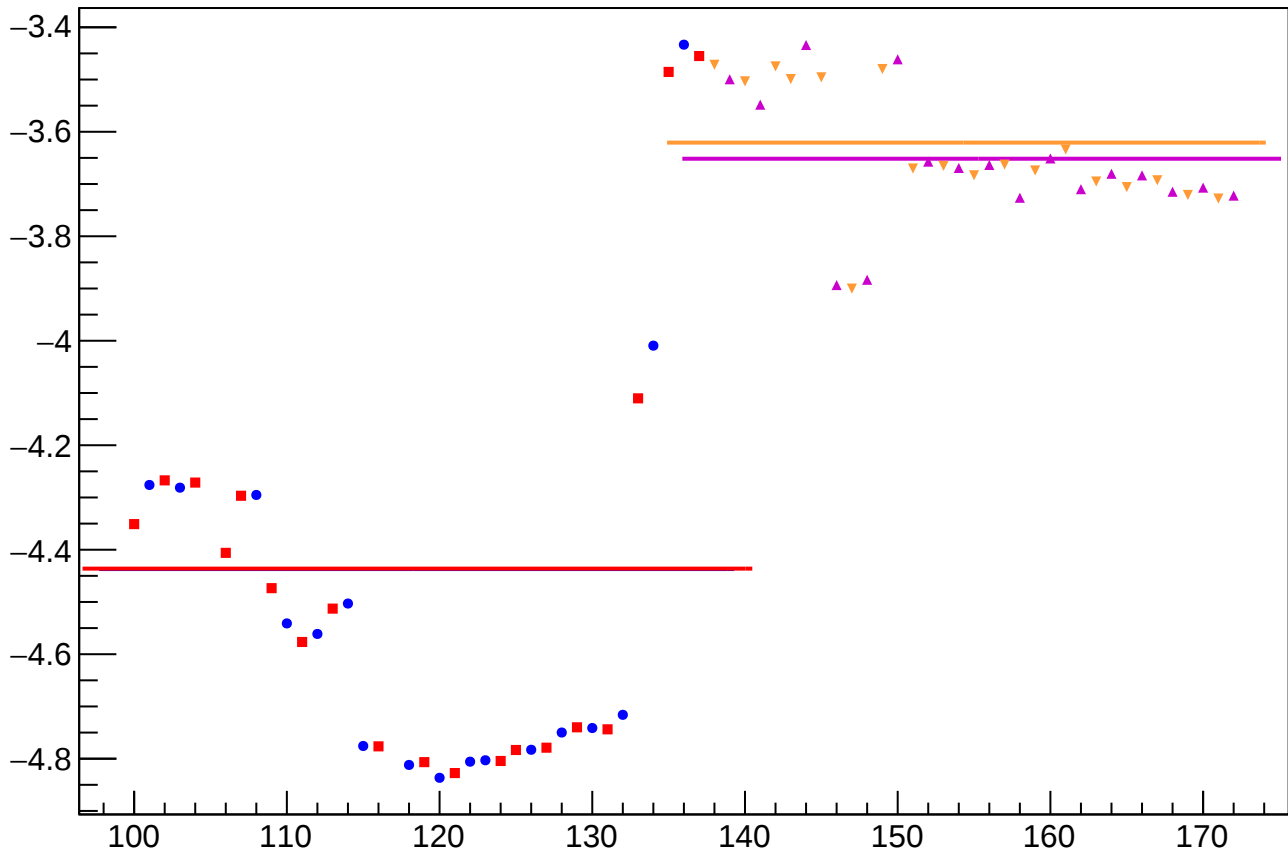
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF :917633.3/33

Out: 0.002+/-0.000 χ^2/NDF :934485.1/36

All: 0.002+/-0.000 χ^2/NDF : 1860005.5/70

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437+/-0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.621+/-0.000 χ^2/NDF : 38238364629.3/17

Right Out: -4.436+/-0.000 χ^2/NDF : 325183860699.4/18

Left In: -3.652+/-0.000 χ^2/NDF : 45674799344.2/16

Left: -3.636+/-0.000 χ^2/NDF : 85276134126.3/34

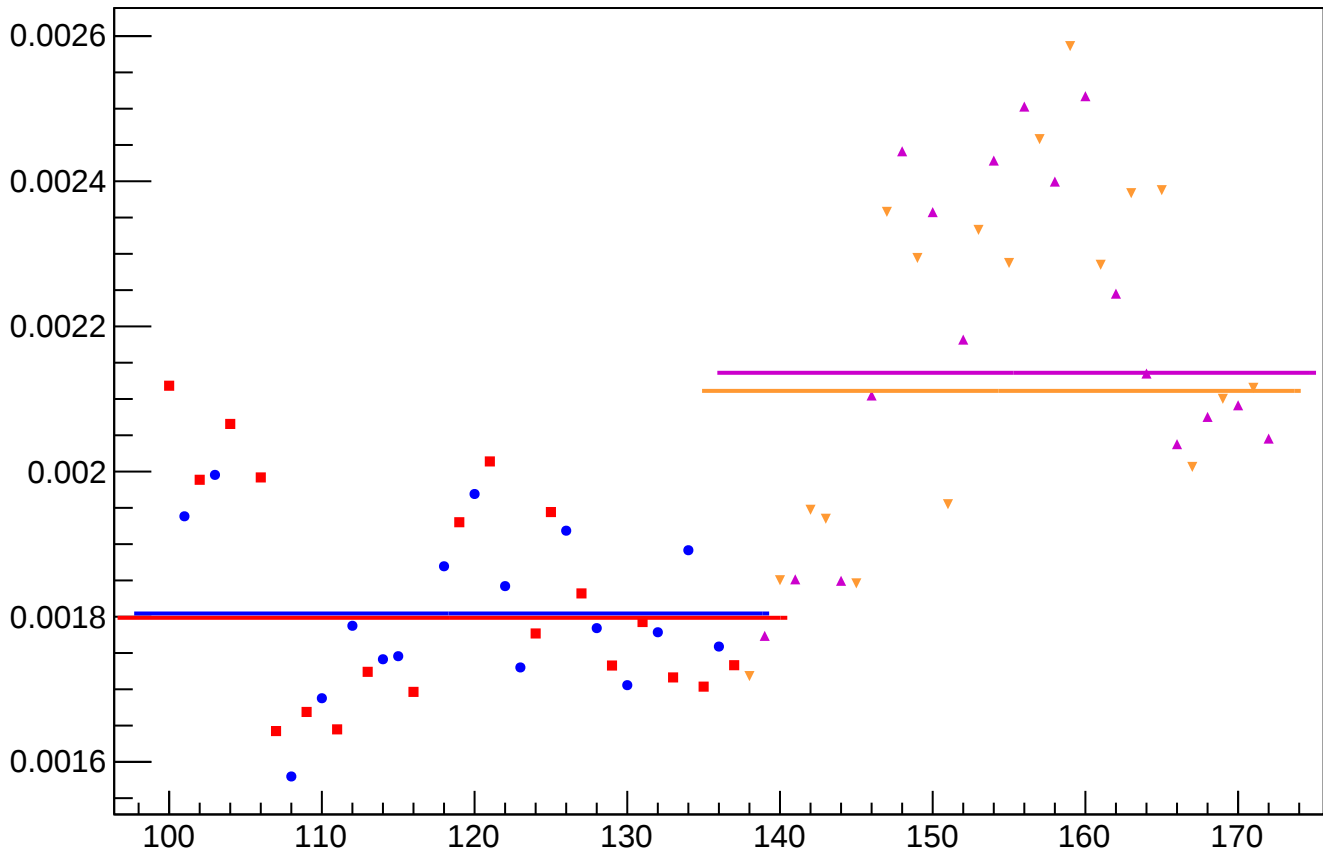
Right: -4.437+/-0.000 χ^2/NDF : 717996921060.6/35

In: -3.978+/-0.000 χ^2/NDF : 1158243696281.7/33

Out: -3.965+/-0.000 χ^2/NDF : 1179903359118.6/36

All: -3.971+/-0.000 χ^2/NDF : 2338600844527

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 :342728.2/17

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF :299220.4/16

Left: 0.002+/-0.000 χ^2/NDF : 643724.0/34

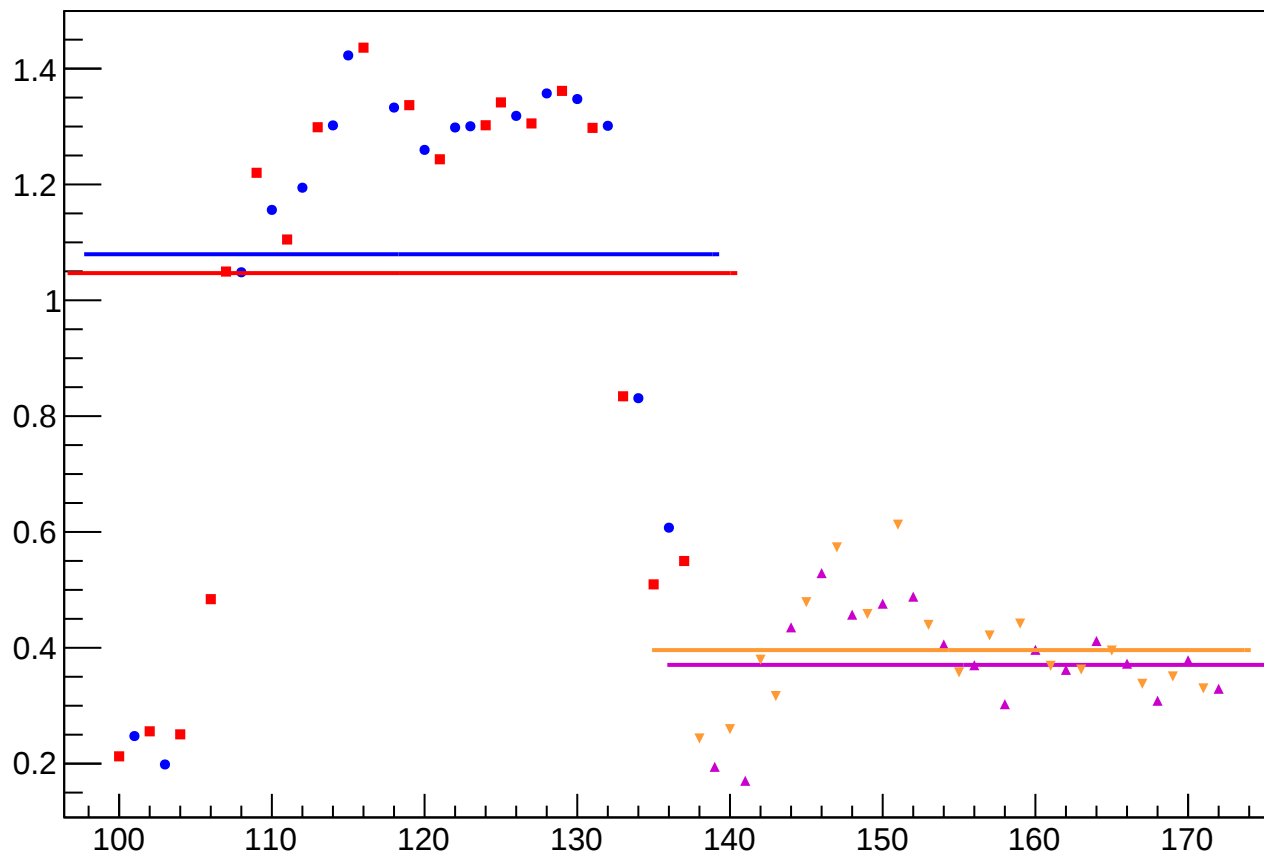
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :605050.8/33

Out: 0.002+/-0.000 χ^2/NDF :663789.3/36

All: 0.002+/-0.000 χ^2/NDF : 1270587.3/70

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.396 $\pm$ 0.000 χ^2 /NDF:1330971027.2/17

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.370 $\pm$ 0.000 χ^2 /NDF:1104362157.5/16

Left: 0.384 $\pm$ 0.000 χ^2 /NDF: 2482939498.0/34

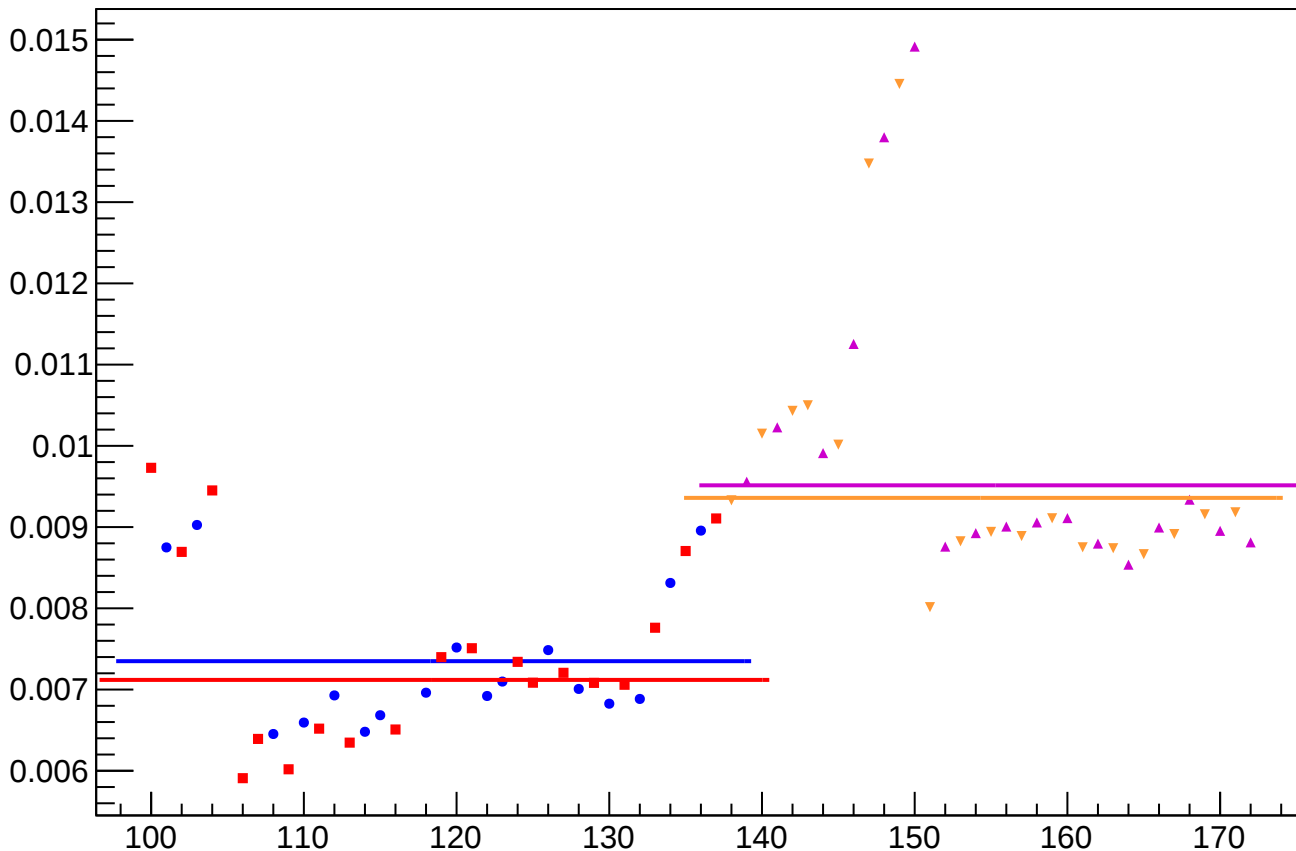
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.699 $\pm$ 0.000 χ^2 /NDF:51674301221.6/33

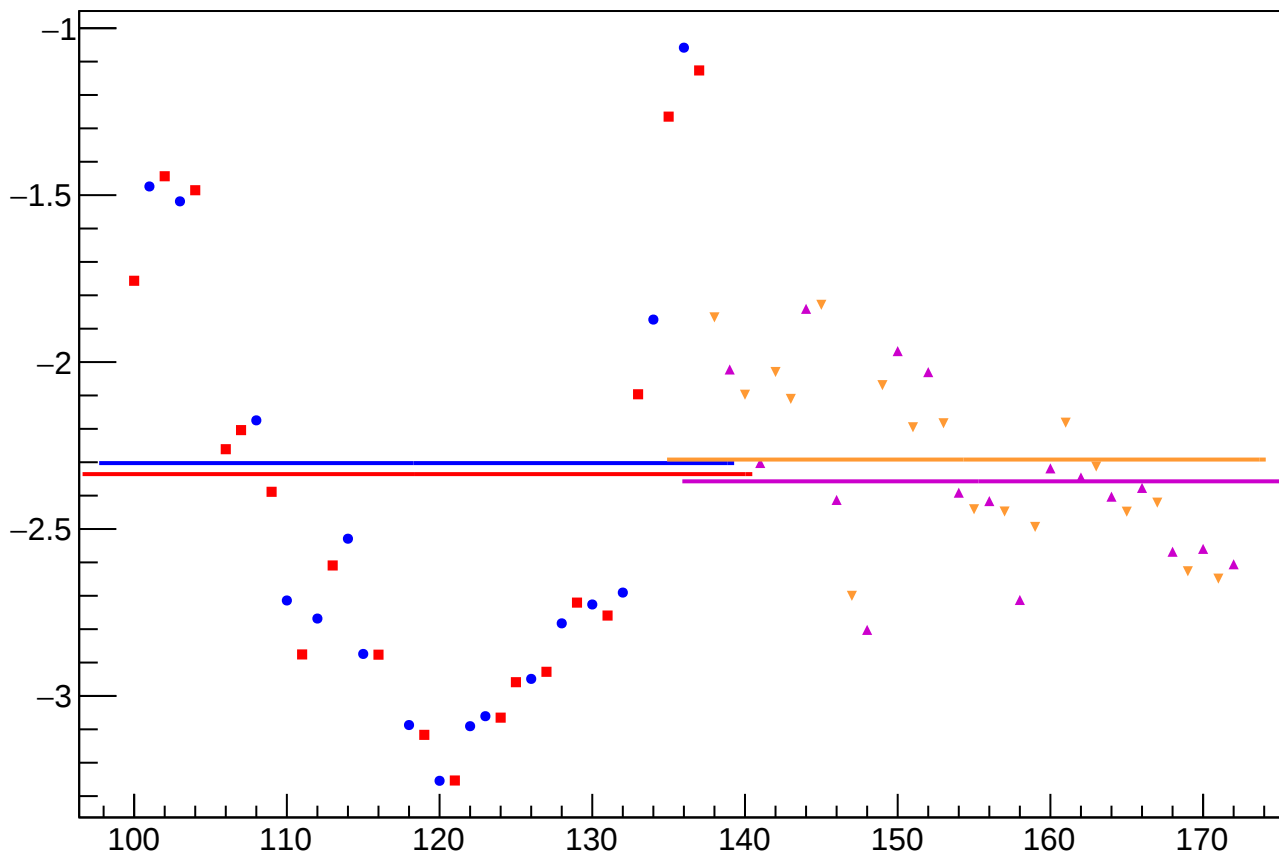
Out: 0.708 $\pm$ 0.000 χ^2 /NDF:51421164355.1/36

All: 0.703 $\pm$ 0.000 χ^2 /NDF: 103106630631.1

yield_bpm2i02X_rms vs Slug, Sign Corrected



yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.292+/-0.000 χ^2/NDF : 10528189477.9/17

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.357+/-0.000 χ^2/NDF : 10522457996.8/16

Left: -2.324+/-0.000 χ^2/NDF : 21425114177.5/34

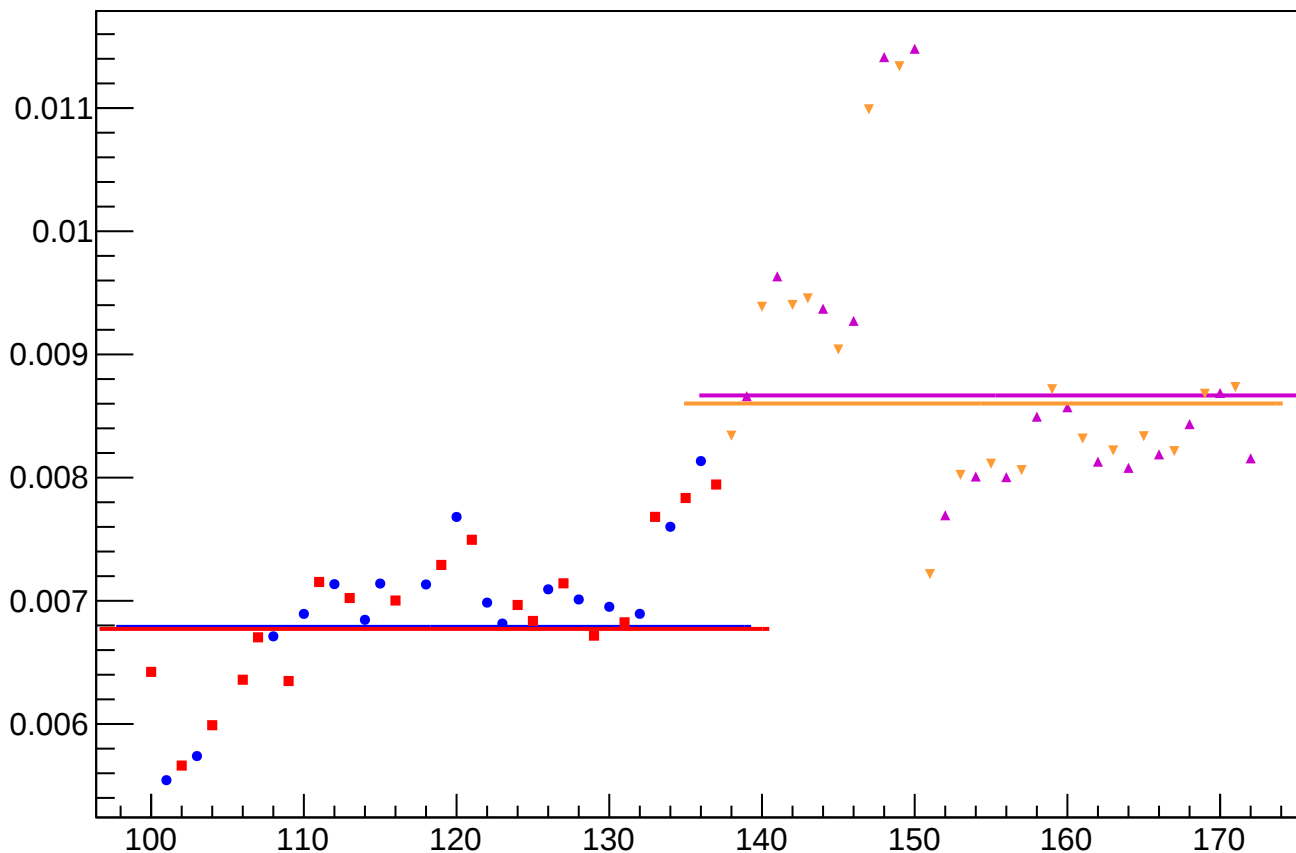
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.332+/-0.000 χ^2/NDF : 84512890820.3/33

Out: -2.312+/-0.000 χ^2/NDF : 75184800663.9/36

All: -2.322+/-0.000 χ^2/NDF : 159764336706.9

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 : 290201.5/17

Right Out: 0.007 $\pm$ 0.000 χ^2/NDF : 123244.0/18

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 302910.2/16

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 593867.9/34

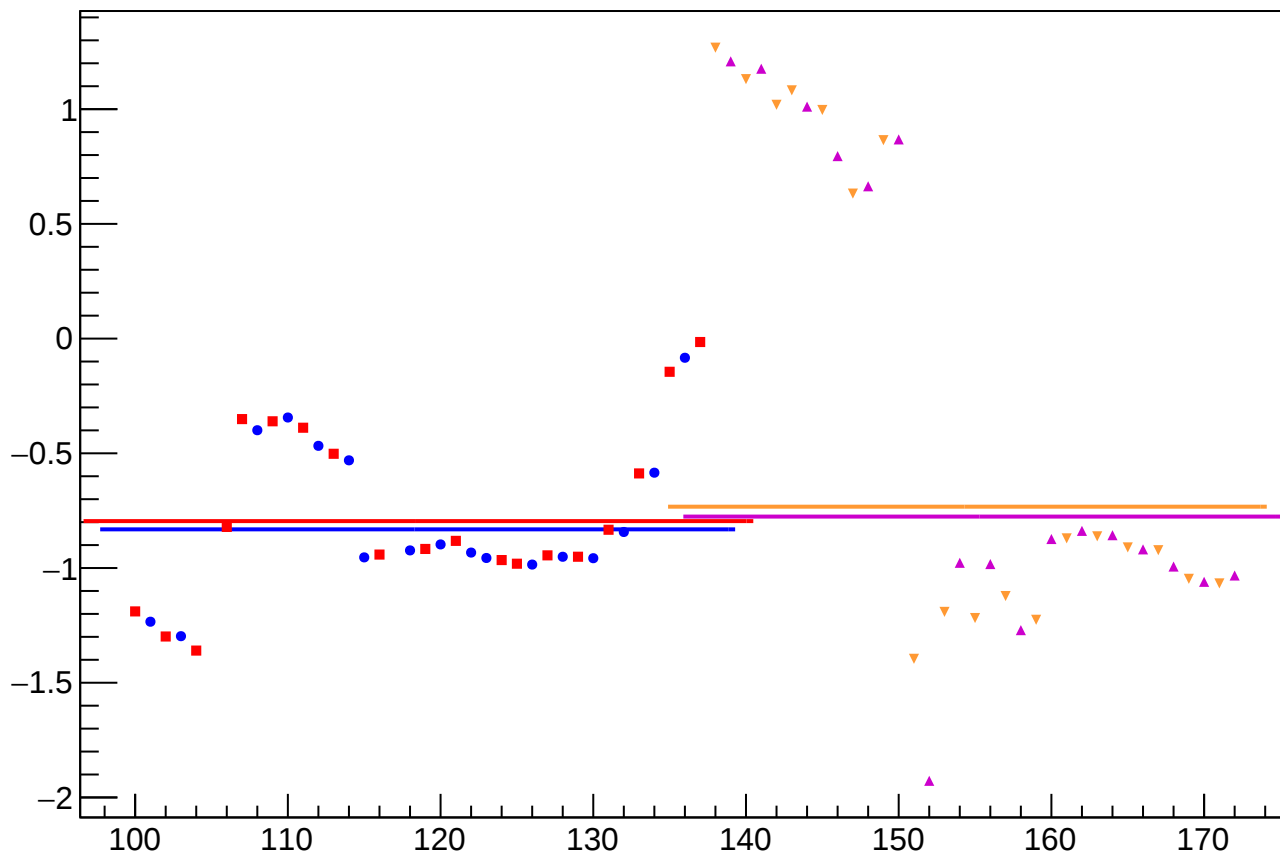
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 288483.5/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 1023075.1/33

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 967784.8/36

All: 0.008 $\pm$ 0.000 χ^2/NDF : 1991927.1/70

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ²/NDF: 6692170860.9/16

Left: -0.754+/-0.000

χ²/NDF: 238445642124.2/34

Left Out: -0.733+/-0.000

χ²/NDF: 115824672417.2/17

Right: -0.813+/-0.000

χ²/NDF: 14551426152.3/35

Right Out: -0.796+/-0.000

χ²/NDF: 7821744046.6/18

In: -0.789+/-0.000

χ²/NDF: 129272302520.3/33

Out: -0.748+/-0.000

χ²/NDF: 123825597238.4/36

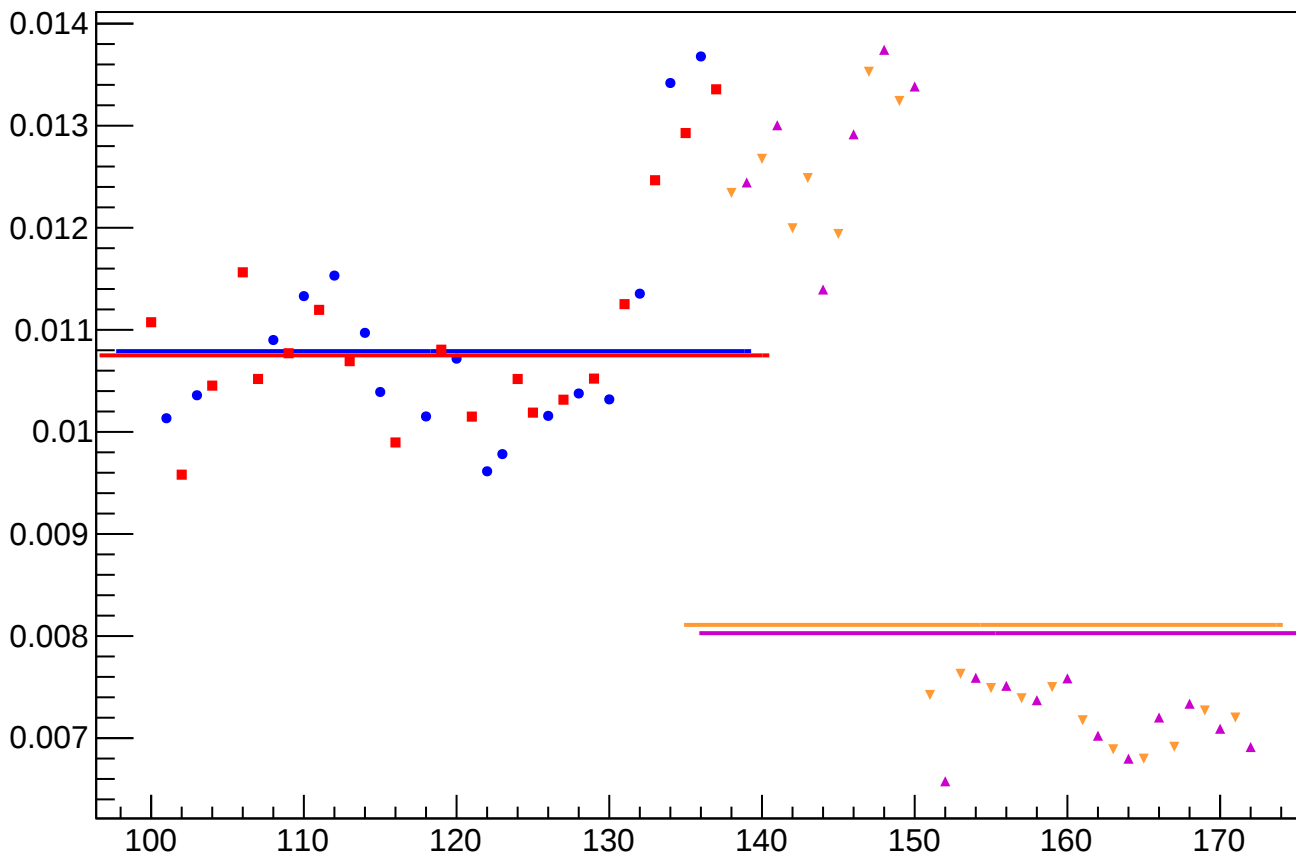
Left In: -0.776+/-0.000

χ²/NDF: 122445518471.1/16

All: -0.768+/-0.000

χ²/NDF: 253303856966.7

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 :1516794.9/17

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF :1592947.8/16

Left: 0.008+/-0.000 χ^2/NDF : 3110984.5/34

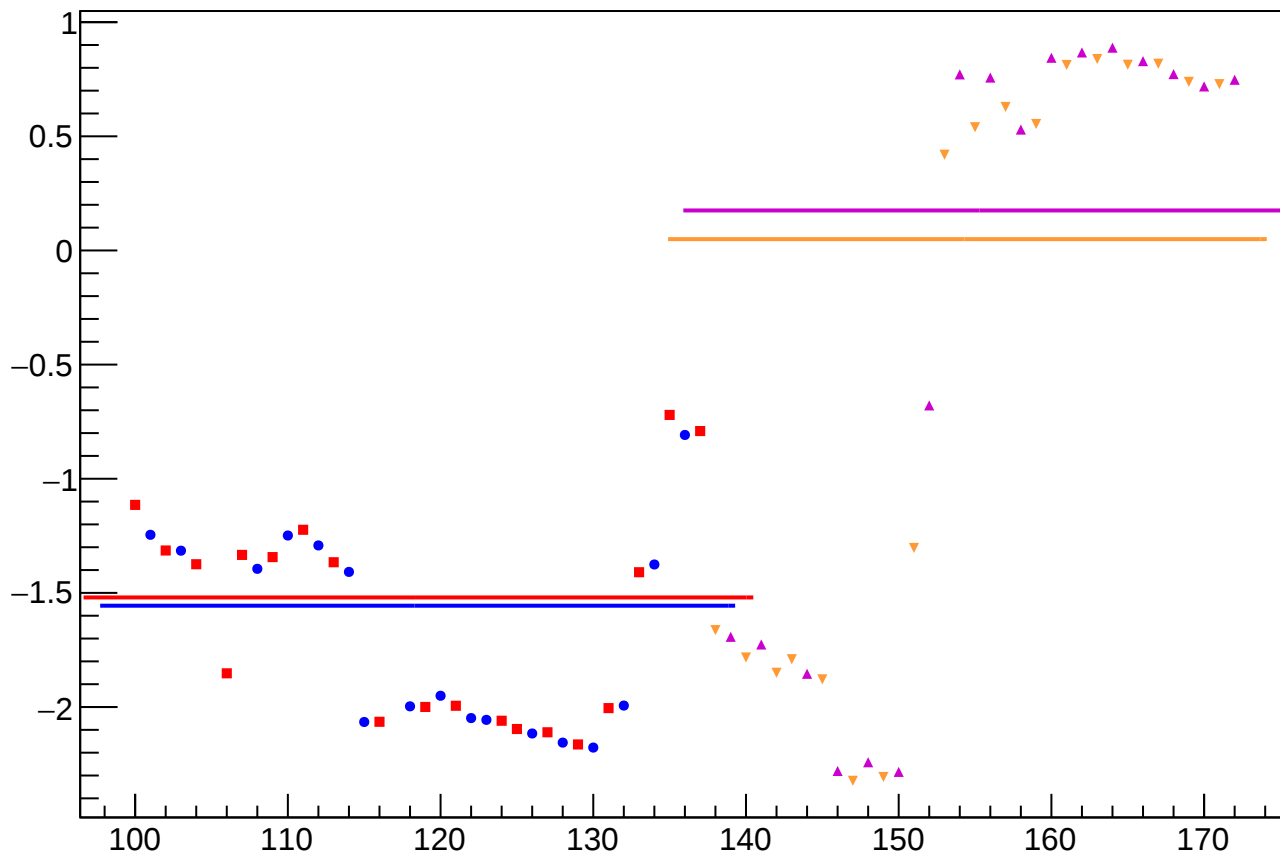
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2381636.4/33

Out: 0.009+/-0.000 χ^2/NDF :2239059.8/36

All: 0.009+/-0.000 χ^2/NDF : 4622223.2/70

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: 0.050+/-0.000 χ^2/NDF : 2236804886038.7/17

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: 0.175+/-0.000 χ^2/NDF : 2092067714985.6/16

Left: 0.112+/-0.000 χ^2/NDF : 4342858816931.1/34

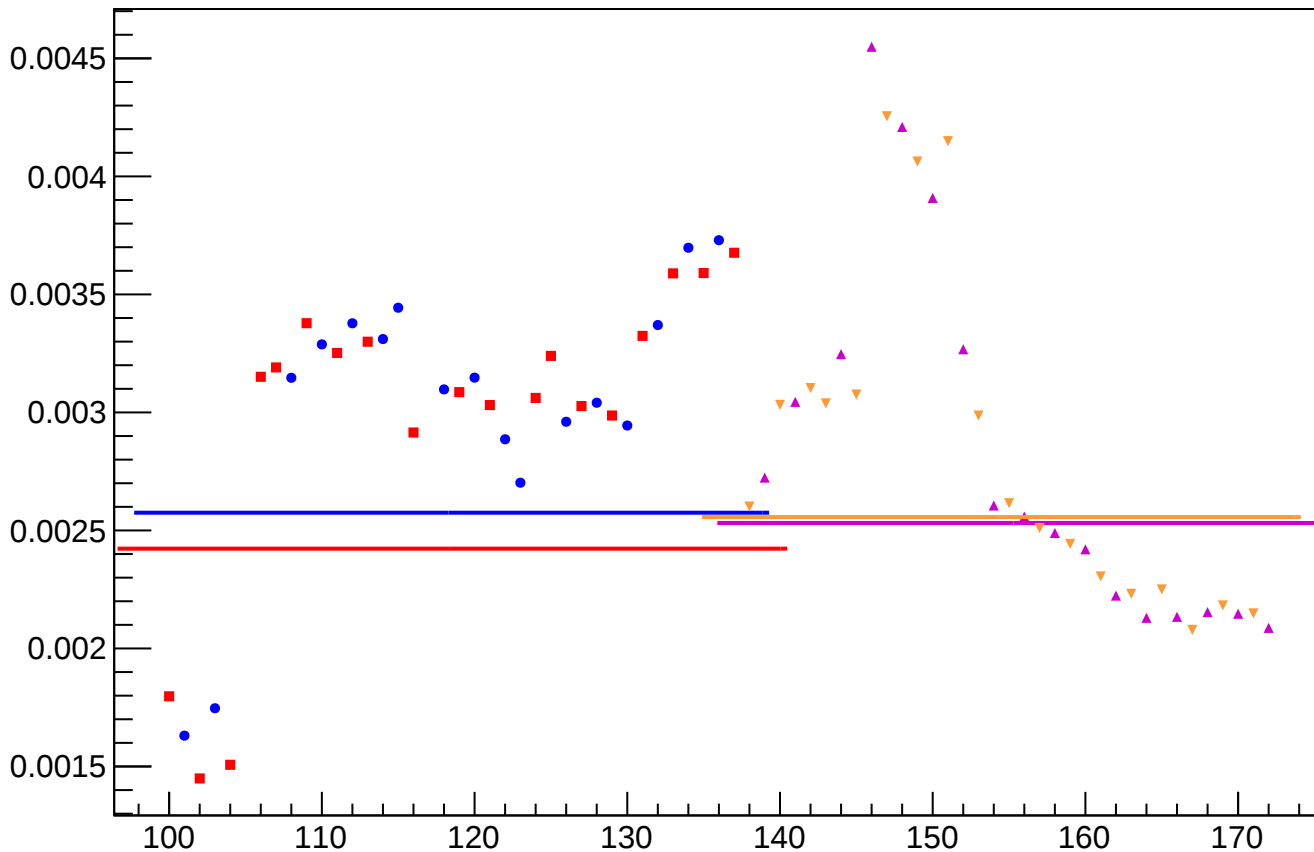
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.389+/-0.000 χ^2/NDF : 3970997839644.6/33

Out: -0.503+/-0.000 χ^2/NDF : 3917087320157.1/36

All: -0.448+/-0.000 χ^2/NDF : 7905346193137

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 :936010.6/17

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.003+/-0.000 χ^2/NDF :1040097.5/16

Left: 0.003+/-0.000 χ^2/NDF : 1977218.4/34

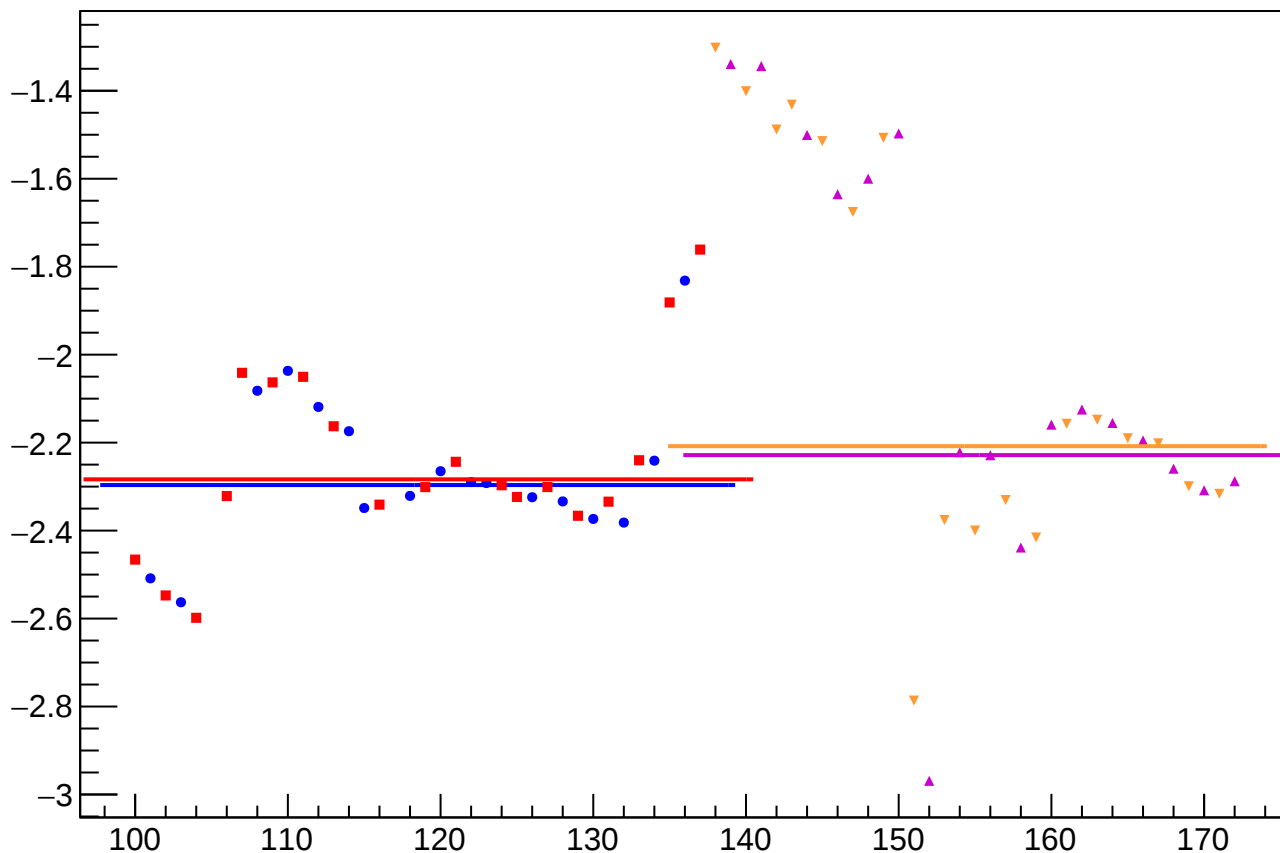
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF :2056112.9/33

Out: 0.003+/-0.000 χ^2/NDF :2448539.9/36

All: 0.003+/-0.000 χ^2/NDF : 4508172.6/70

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.208+/-0.000 χ^2/NDF : 52035062073.4/17

Right Out: -2.283+/-0.000 χ^2/NDF : 6548716896.9/18

Left In: -2.228+/-0.000 χ^2/NDF : 66850793826.2/16

Left: -2.218+/-0.000 χ^2/NDF : 118986994458.0/34

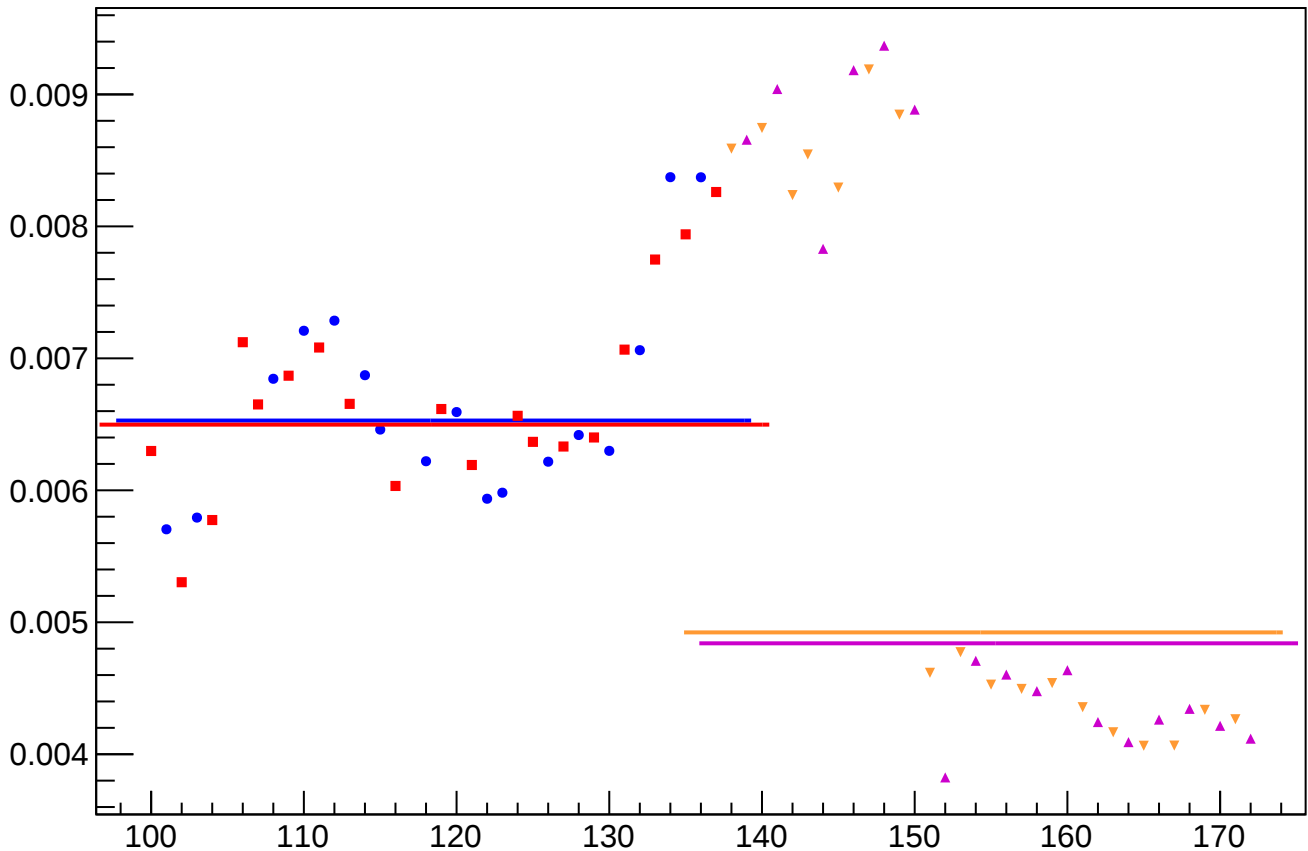
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.244+/-0.000 χ^2/NDF : 73173022783.6/33

Out: -2.227+/-0.000 χ^2/NDF : 59271259704.0/36

All: -2.235+/-0.000 χ^2/NDF : 132545471218.6

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:2081502.6/17

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 164144.2/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2191351.0/16

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4276232.4/34

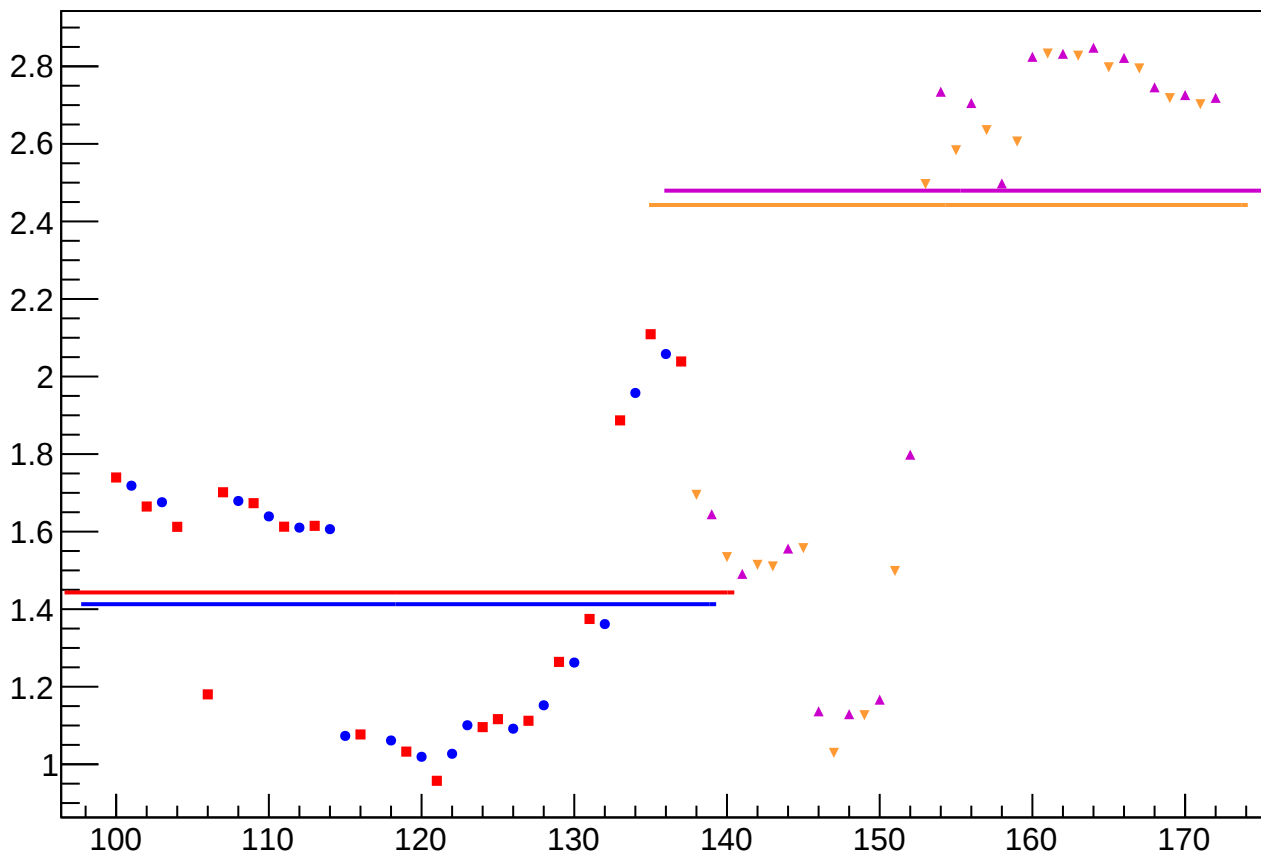
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 340761.0/35

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3029928.0/33

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2846167.2/36

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 5879752.0/70

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.442+/-0.000 χ^2/NDF : 235081929470.2/17

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.479+/-0.000 χ^2/NDF : 235156724074.4/16

Left: 2.461+/-0.000 χ^2/NDF : 470856903462.7/34

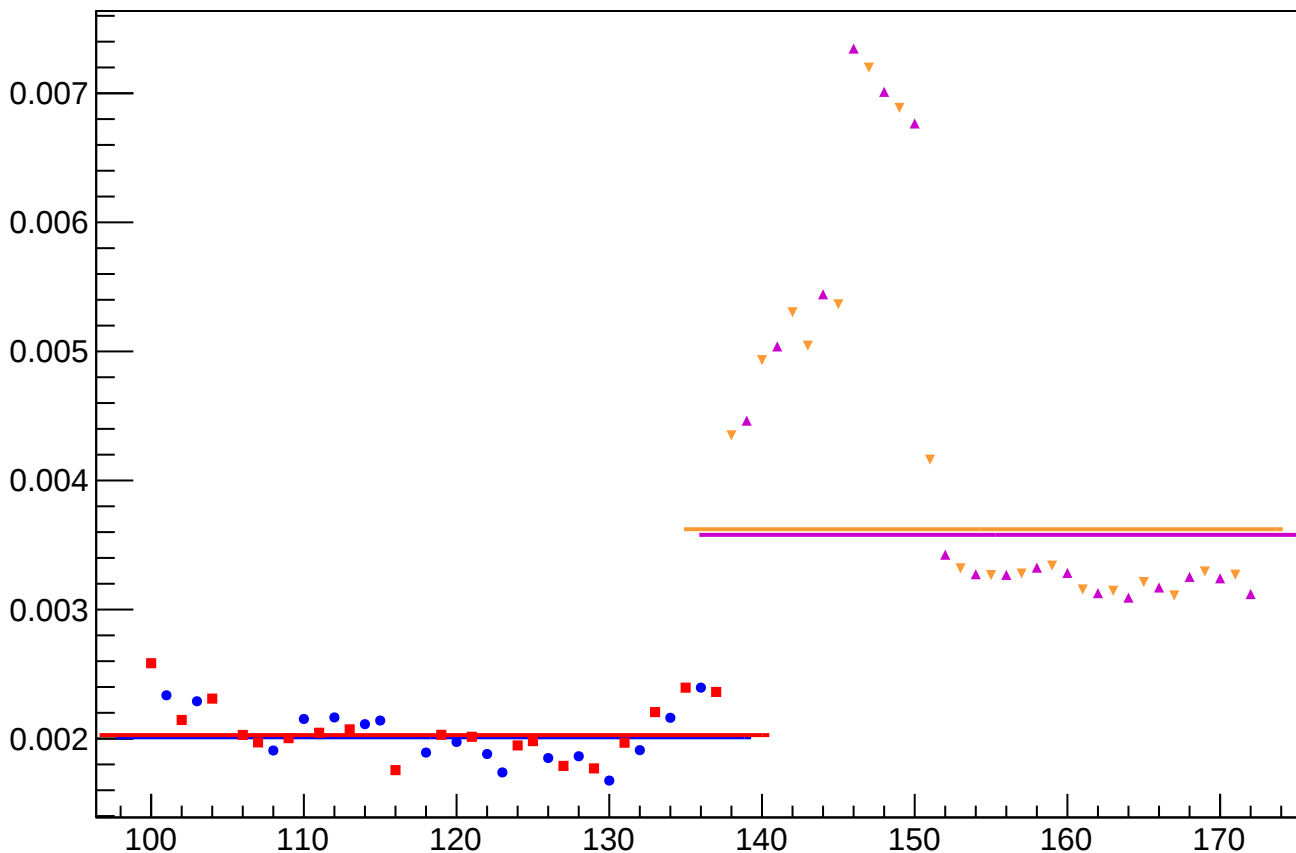
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.809+/-0.000 χ^2/NDF : 1053074120582.4/33

Out: 1.808+/-0.000 χ^2/NDF : 983792616152.5/36

All: 1.809+/-0.000 χ^2/NDF : 2036868423301.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 152530.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :1294093.2/17

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1498108.2/16

Left: 0.004+/-0.000 χ^2/NDF : 2793936.5/34

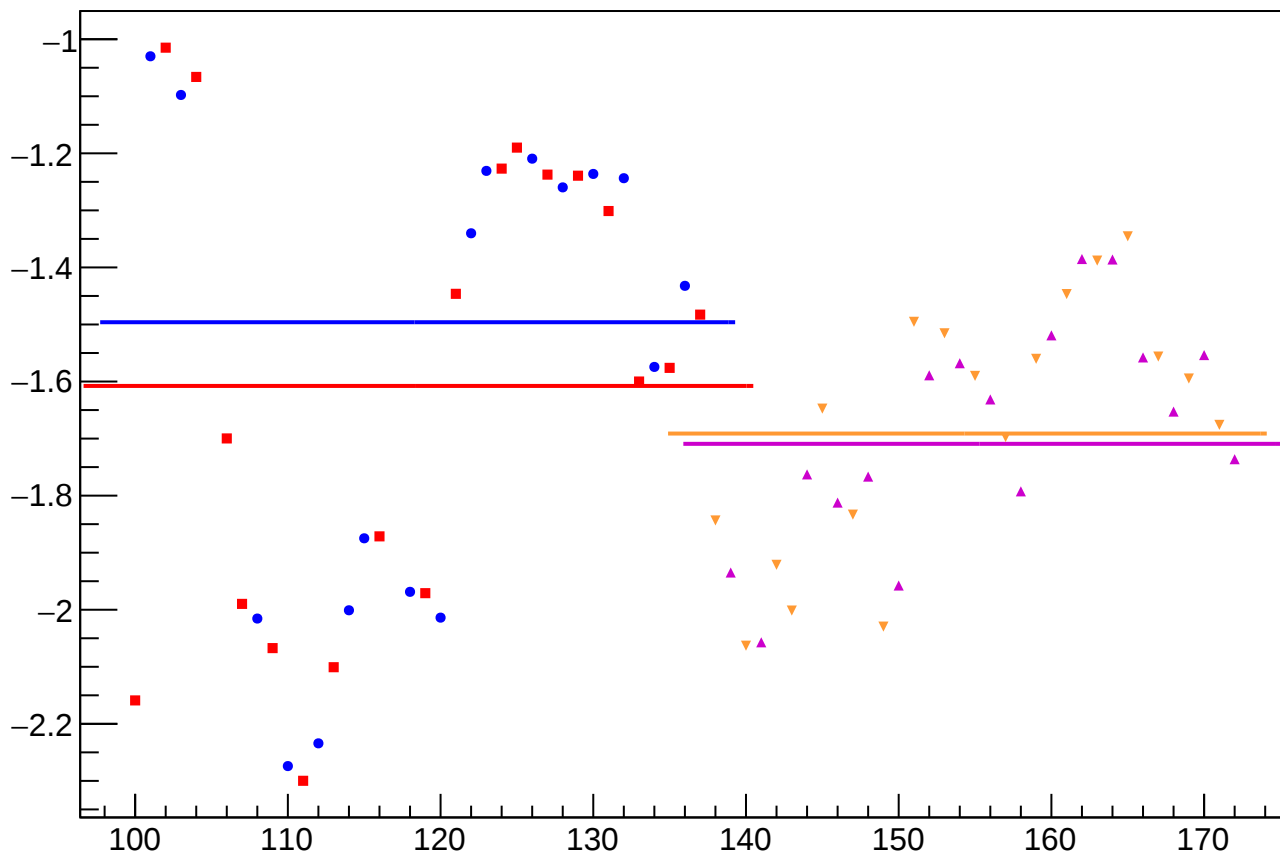
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4442288.4/33

Out: 0.003+/-0.000 χ^2/NDF :4330944.9/36

All: 0.003+/-0.000 χ^2/NDF : 8773913.7/70

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.691+/-0.000 χ^2/NDF : 15679264559.4/17

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.709+/-0.000 χ^2/NDF : 11255680936.0/16

Left: -1.700+/-0.000 χ^2/NDF : 26987794008.6/34

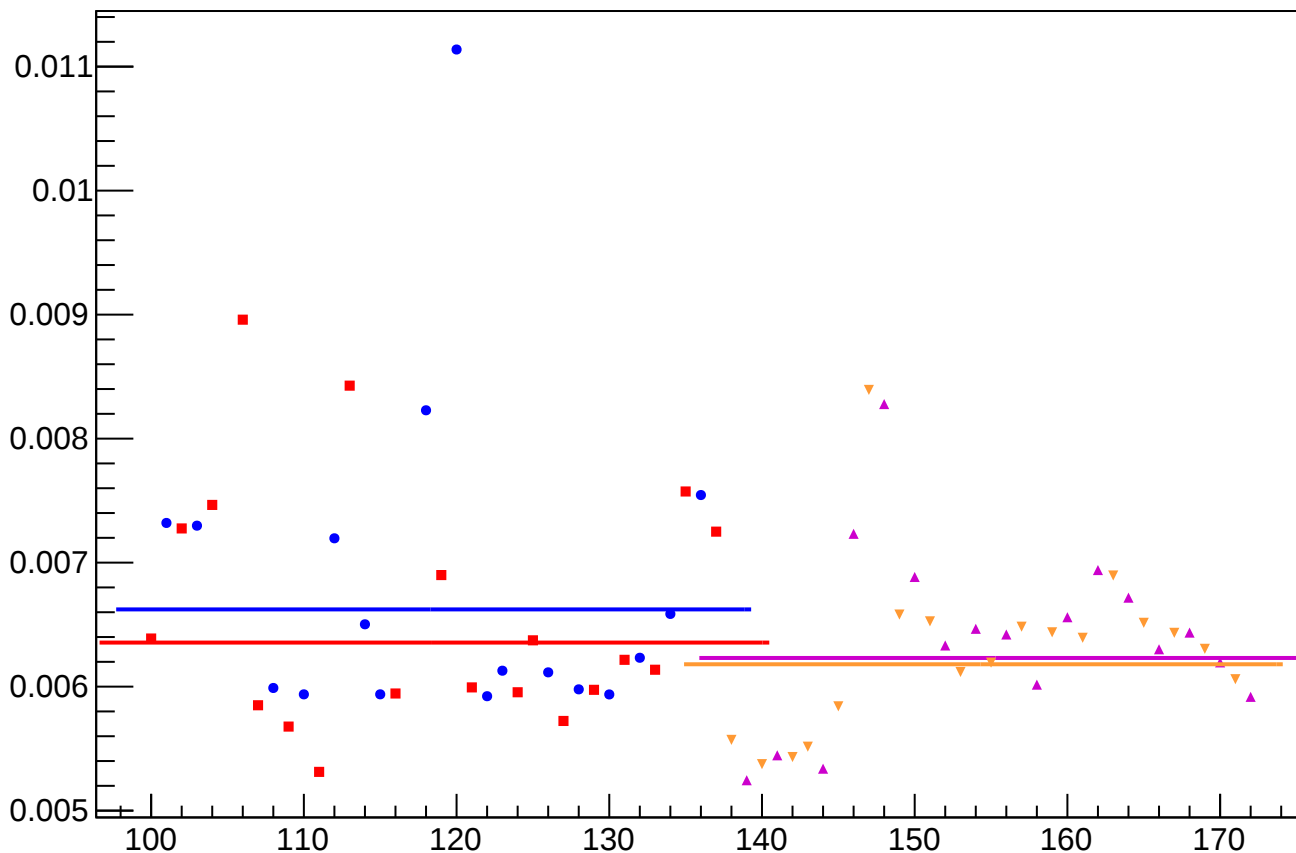
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.644+/-0.000 χ^2/NDF : 38173717106.1/33

Out: -1.664+/-0.000 χ^2/NDF : 44278054602.6/36

All: -1.654+/-0.000 χ^2/NDF : 82539597270.8/81

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF : 227085.1/17

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 292549.4/16

Left: 0.006+/-0.000 χ^2/NDF : 520474.9/34

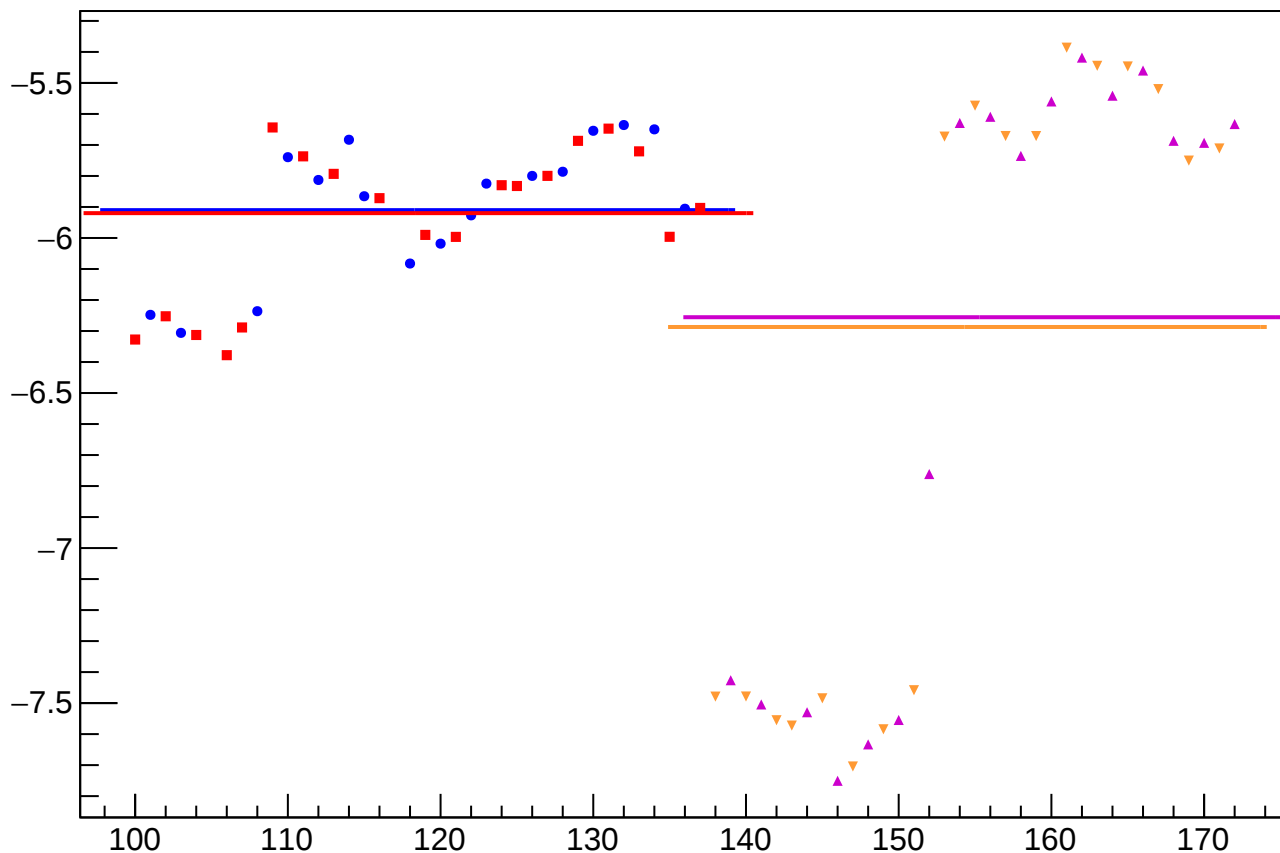
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF : 554834.0/33

Out: 0.006+/-0.000 χ^2/NDF : 461646.5/36

All: 0.006+/-0.000 χ^2/NDF : 1022462.2/70

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.287+/-0.000 χ^2/NDF : 167268461975.3/17

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.256+/-0.000 χ^2/NDF : 144603537366.5/16

Left: -6.271+/-0.000 χ^2/NDF : 311964735533.6/34

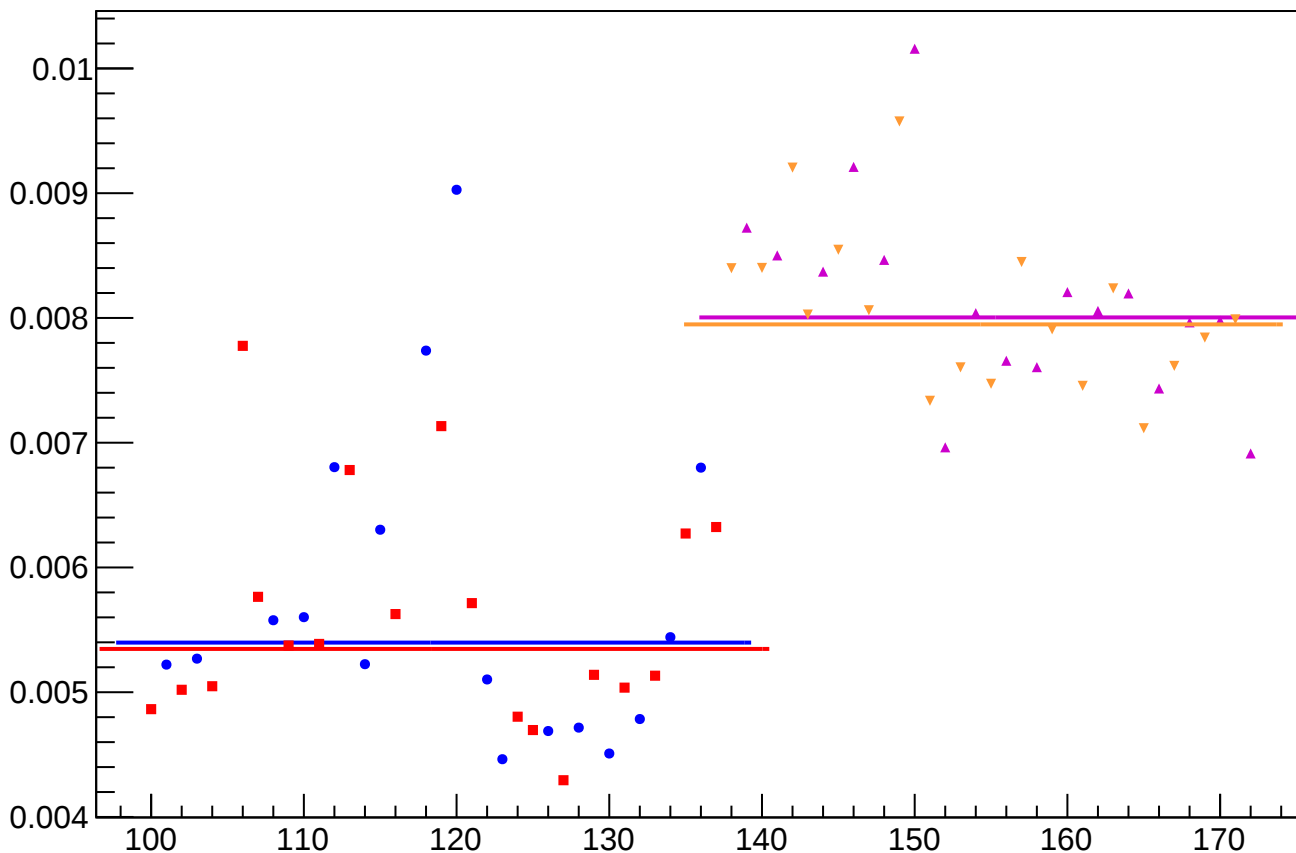
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.075+/-0.000 χ^2/NDF : 167289888563.2/33

Out: -6.088+/-0.000 χ^2/NDF : 193806611808.3/36

All: -6.082+/-0.000 χ^2/NDF : 361131200152.1

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 :115771.1/17

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :189486.5/16

Left: 0.008+/-0.000 χ^2/NDF : 305839.4/34

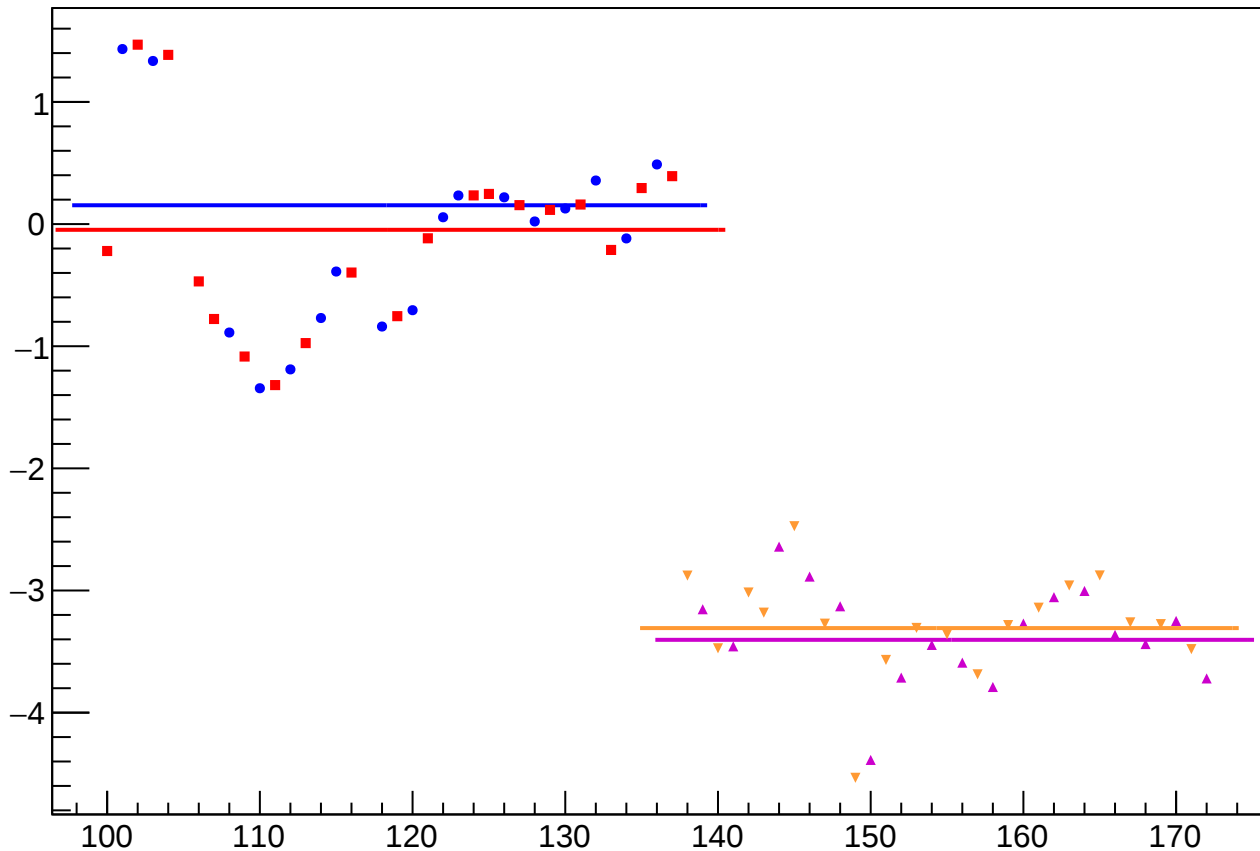
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1874771.6/33

Out: 0.007+/-0.000 χ^2/NDF :1745718.5/36

All: 0.007+/-0.000 χ^2/NDF : 3624654.5/70

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.308+/-0.000 χ^2/NDF : 8055261396.6/17

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.404+/-0.000 χ^2/NDF : 7324093989.0/16

Left: -3.355+/-0.000 χ^2/NDF : 15613603819.4/34

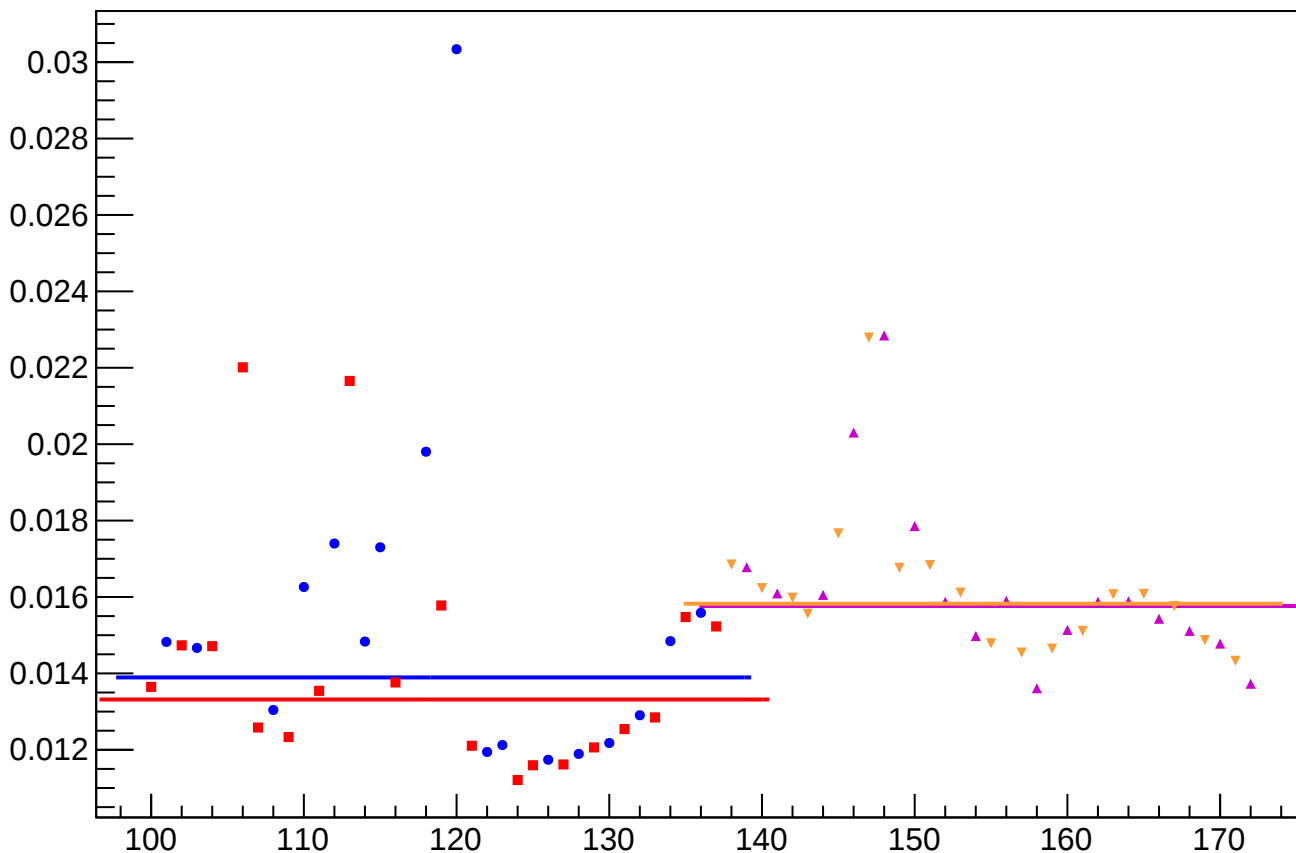
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.056+/-0.000 χ^2/NDF : 265490394903.4/33

Out: -1.952+/-0.000 χ^2/NDF : 255557792211.7/36

All: -2.002+/-0.000 χ^2/NDF : 521502622090.8

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :221564.9/17

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :326751.7/16

Left: 0.016+/-0.000 χ^2/NDF : 548500.4/34

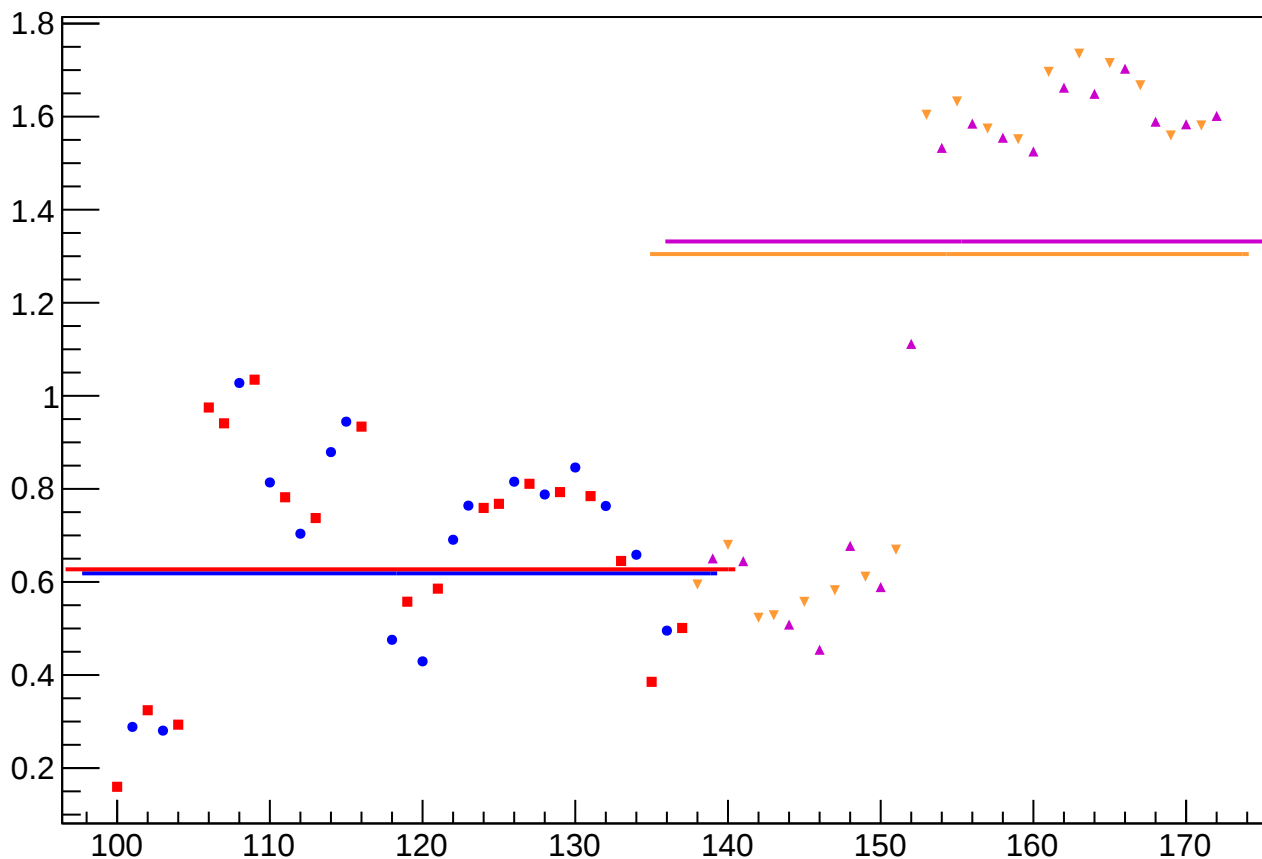
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :860506.7/33

Out: 0.015+/-0.000 χ^2/NDF :780468.4/36

All: 0.015+/-0.000 χ^2/NDF : 1647288.0/70

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.305+/-0.000 χ^2/NDF : 68420931737.5/17

Right Out: 0.627+/-0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.332+/-0.000 χ^2/NDF : 60371931216.9/16

Left: 1.319+/-0.000 χ^2/NDF : 128910829147.2/34

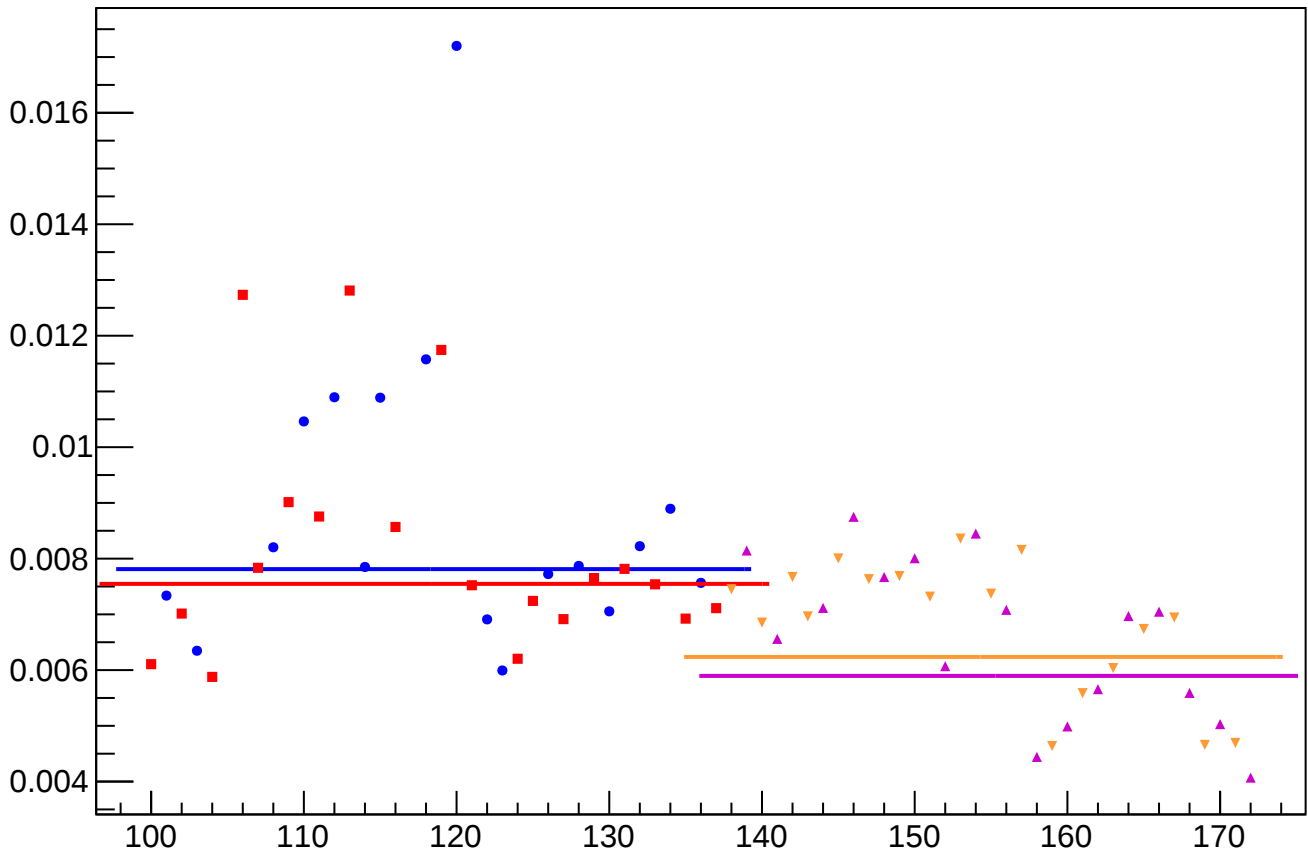
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.175+/-0.000 χ^2/NDF : 103637412231.1/33

Out: 1.127+/-0.000 χ^2/NDF : 111583953989.7/36

All: 1.152+/-0.000 χ^2/NDF : 215709390483.1

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.006+/-0.000 χ^2/NDF :1066282.5/17

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF :1293366.6/16

Left: 0.006+/-0.000 χ^2/NDF : 2396925.2/34

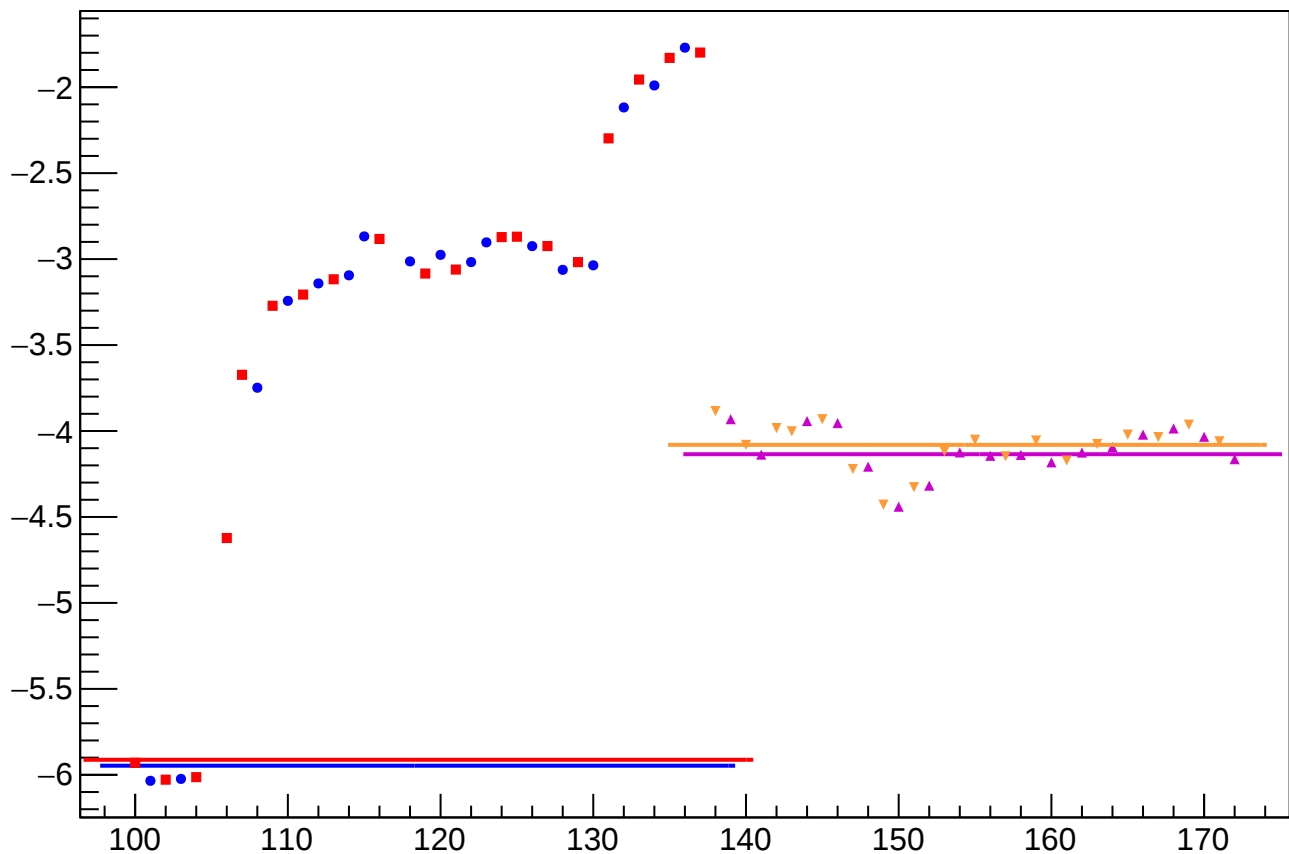
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2306346.3/33

Out: 0.007+/-0.000 χ^2/NDF :1783673.9/36

All: 0.006+/-0.000 χ^2/NDF : 4119381.5/70

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.081+/-0.000 χ^2/NDF : 33875769.3/17

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.135+/-0.000 χ^2/NDF : 25102033.0/16

Left: -4.109+/-0.000 χ^2/NDF : 61880375.8/34

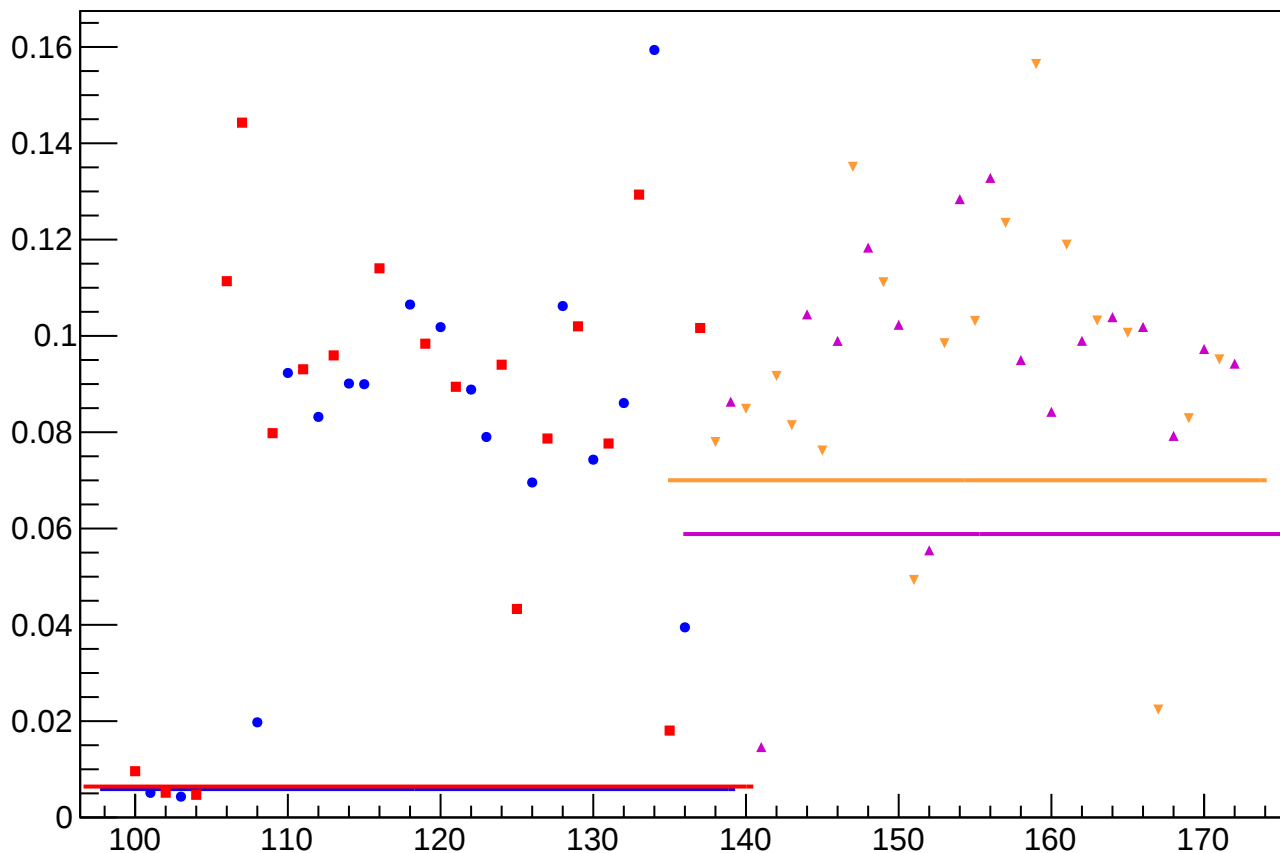
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.871+/-0.000 χ^2/NDF : 19681361571.0/33

Out: -5.827+/-0.000 χ^2/NDF : 20596354926.1/36

All: -5.852+/-0.000 χ^2/NDF : 40320271948.0/70

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.070+/-0.000 χ^2/NDF : 4601142.1/17

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.059+/-0.000 χ^2/NDF : 6907775.2/16

Left: 0.064+/-0.000 χ^2/NDF : 11752625.8/34

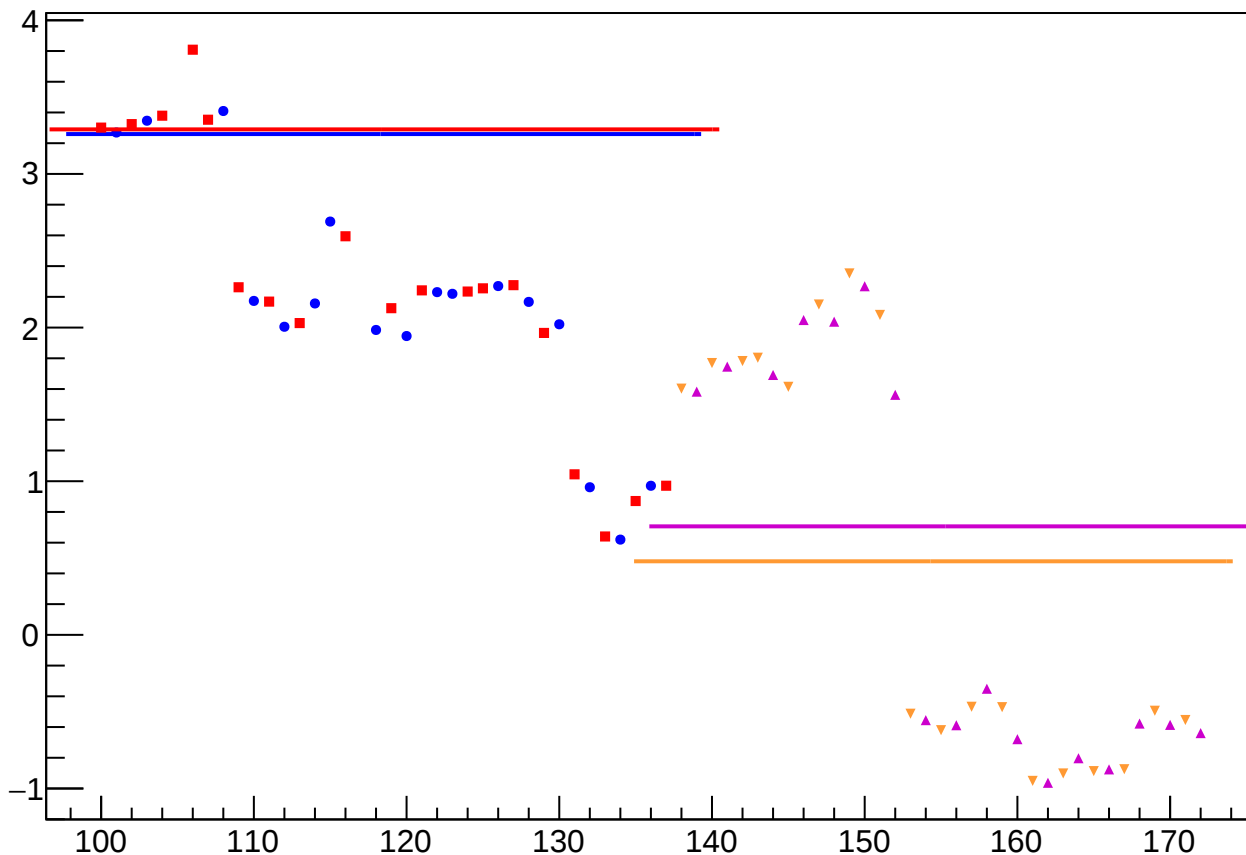
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 25934724.1/33

Out: 0.009+/-0.000 χ^2/NDF : 27428040.5/36

All: 0.009+/-0.000 χ^2/NDF : 53433733.4/70

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 0.479+/-0.000 χ^2/NDF : 2736511123.2/17

Right Out: 3.290+/-0.000 χ^2/NDF : 3262231575.5/18

Left In: 0.706+/-0.000 χ^2/NDF : 2149910168.1/16

Left: 0.588+/-0.000 χ^2/NDF : 4925519223.5/34

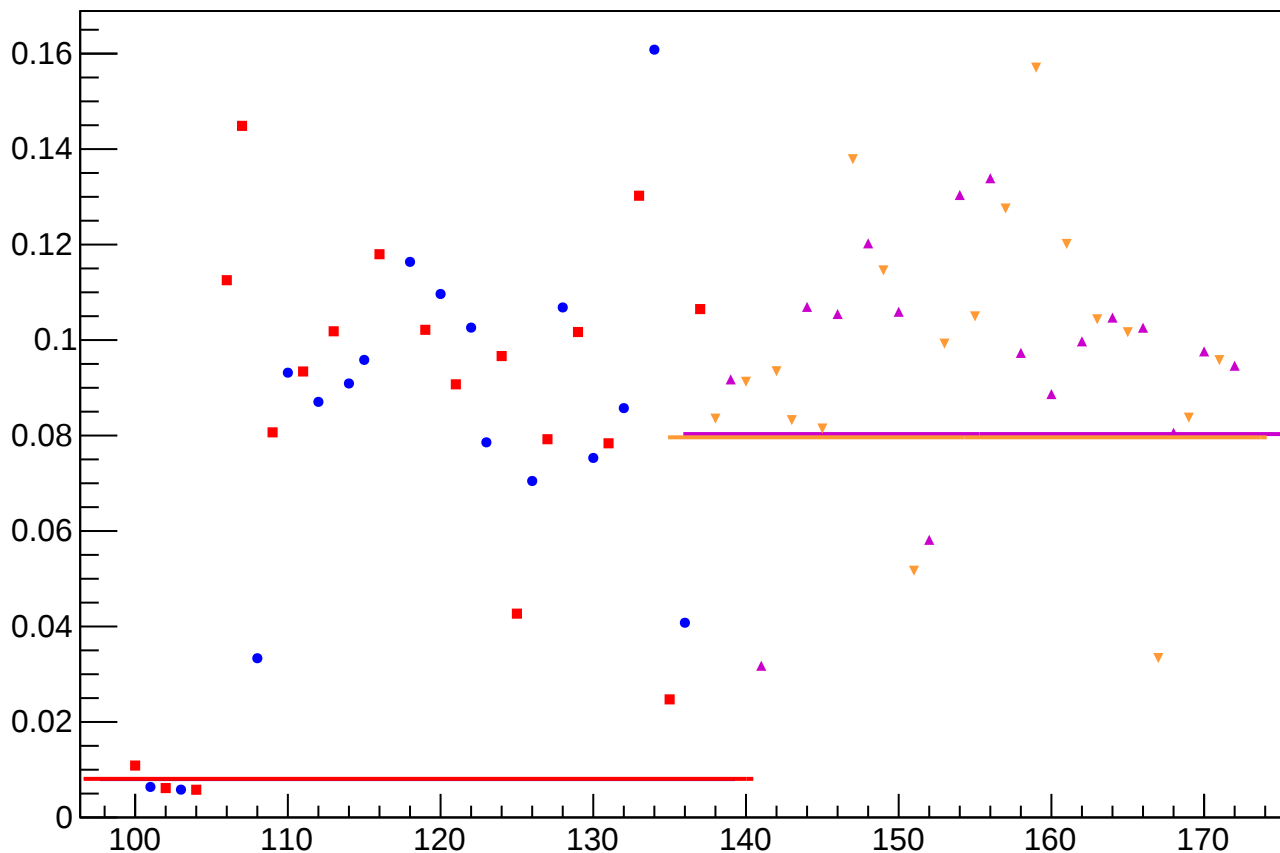
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.137+/-0.000 χ^2/NDF : 14076685713.3/33

Out: 3.132+/-0.000 χ^2/NDF : 17762974563.4/36

All: 3.134+/-0.000 χ^2/NDF : 31840017663.4/71

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7742048.1/16

Left Out: 0.080 $\pm$ 0.000 χ^2 /NDF:3012078.4/17

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8309426.5/18

Left In: 0.080 $\pm$ 0.000 χ^2 /NDF:2833846.1/16

Left: 0.080 $\pm$ 0.000 χ^2 /NDF: 5846627.7/34

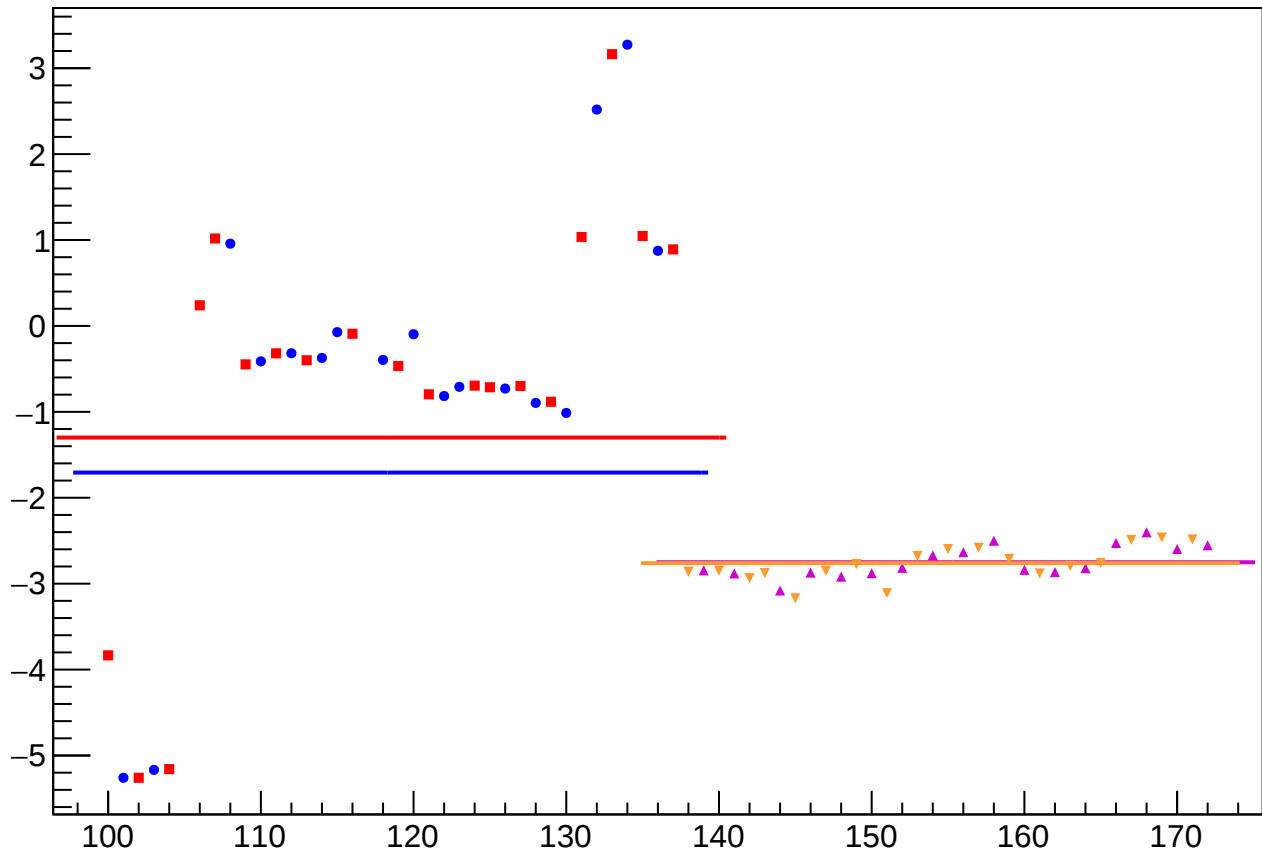
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16051528.4/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:25005017.1/33

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:26560433.9/36

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 51575813.9/70

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.761+/-0.000 χ^2/NDF : 8393667779.6/17

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.751+/-0.000 χ^2/NDF : 7013345251.3/16

Left: -2.756+/-0.000 χ^2/NDF : 15418510565.0/34

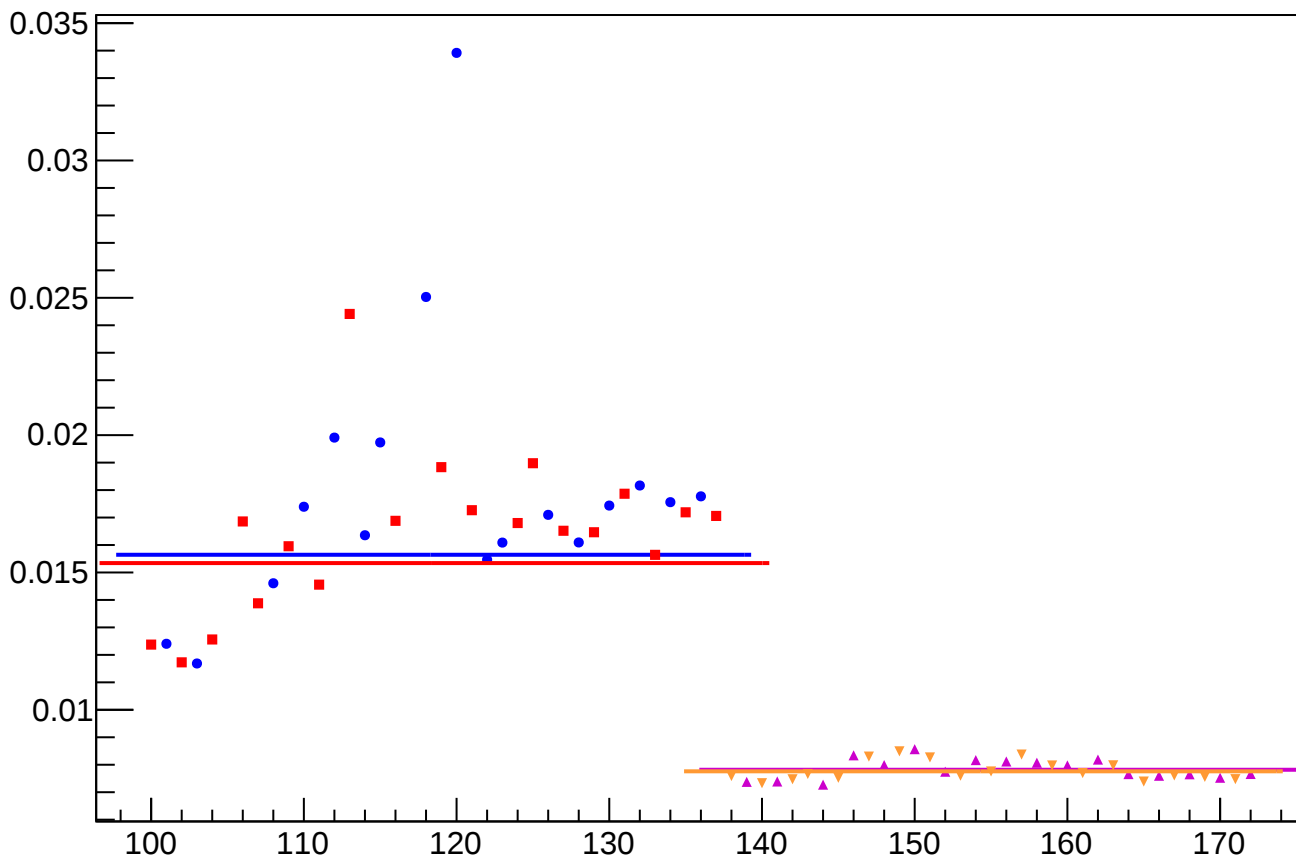
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.647+/-0.000 χ^2/NDF : 195612056485.2/33

Out: -2.601+/-0.000 χ^2/NDF : 236536879326.9/36

All: -2.623+/-0.000 χ^2/NDF : 432397080690.1

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.015+/-0.000 χ^2/NDF : 49348.1/17

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 54166.0/16

Left: 0.008+/-0.000 χ^2/NDF : 104191.1/34

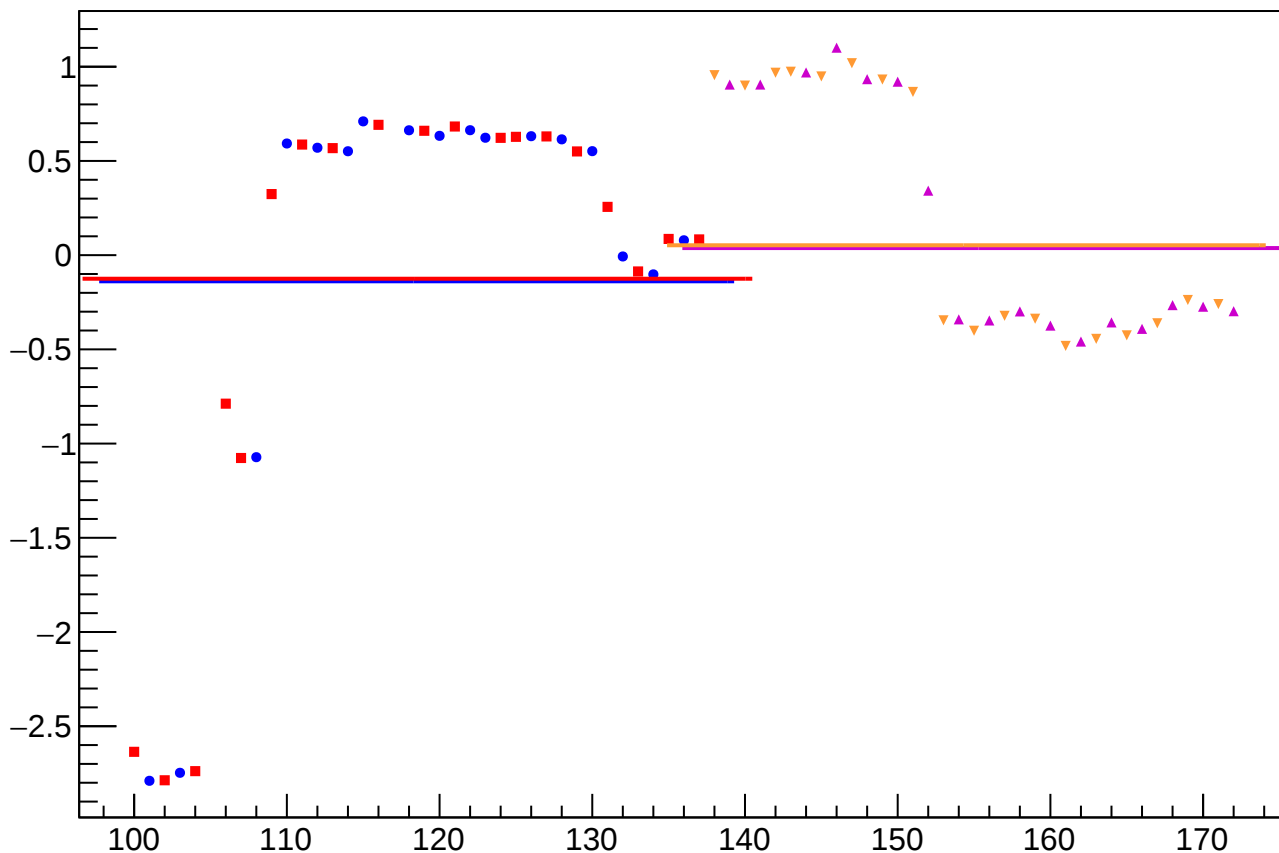
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3159413.0/33

Out: 0.009+/-0.000 χ^2/NDF : 3098177.9/36

All: 0.009+/-0.000 χ^2/NDF : 6257595.5/70

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: 0.045+/-0.000 χ^2/NDF : 232335406821.3/34

Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

Left Out: 0.052+/-0.000

χ^2/NDF : 125331122700.3/17

In: -0.068+/-0.000 χ^2/NDF : 828371423057.4/33

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

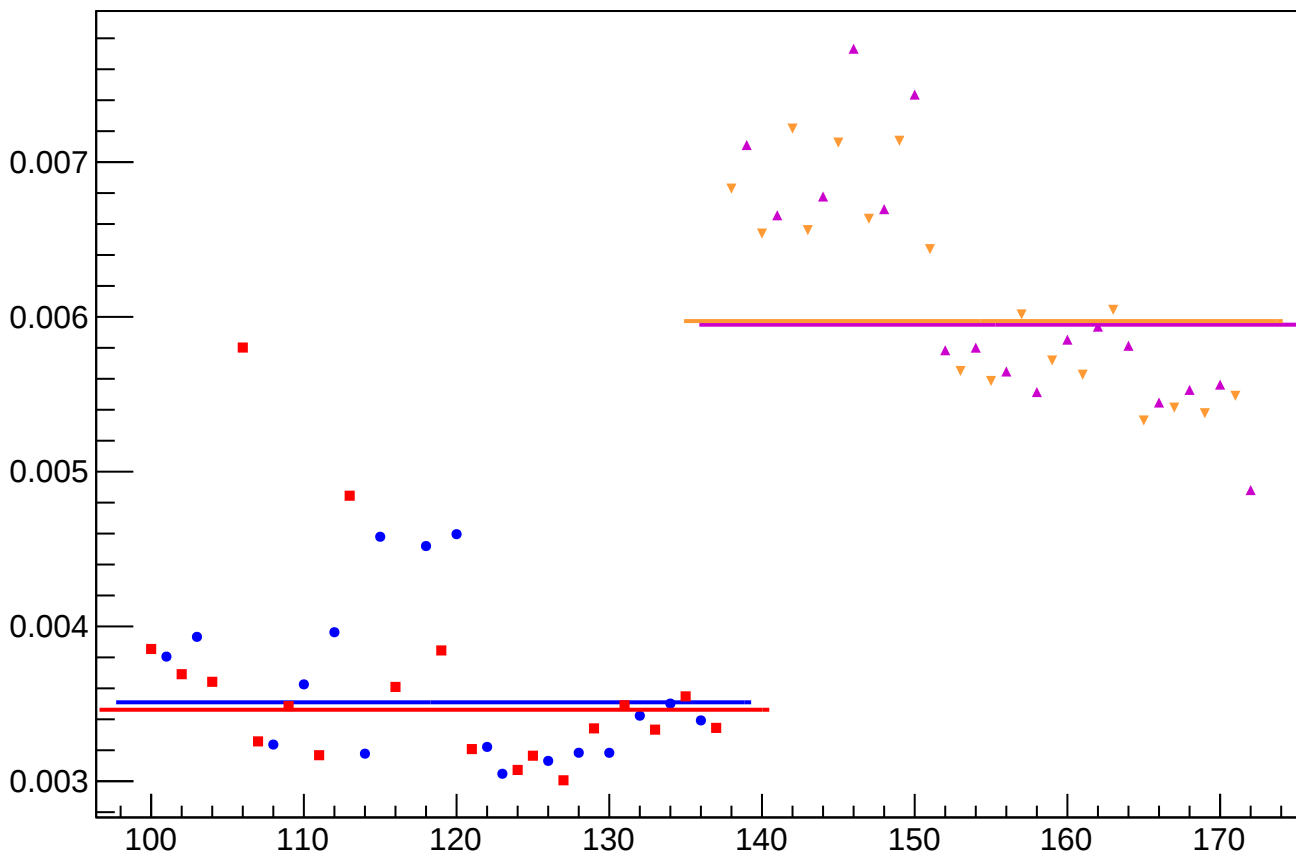
Out: -0.058+/-0.000 χ^2/NDF : 893499156015.7/36

Left In: 0.038+/-0.000

χ^2/NDF : 106966902268.8/16

All: -0.063+/-0.000 χ^2/NDF : 1721917126414

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 $\chi^2/\text{NDF}: 171337.9/16$

Left Out: 0.006+/-0.000 $\chi^2/\text{NDF}: 237116.1/17$

Right Out: 0.003+/-0.000 $\chi^2/\text{NDF}: 215974.1/18$

Left In: 0.006+/-0.000 $\chi^2/\text{NDF}: 328642.4/16$

Left: 0.006+/-0.000 $\chi^2/\text{NDF}: 565944.0/34$

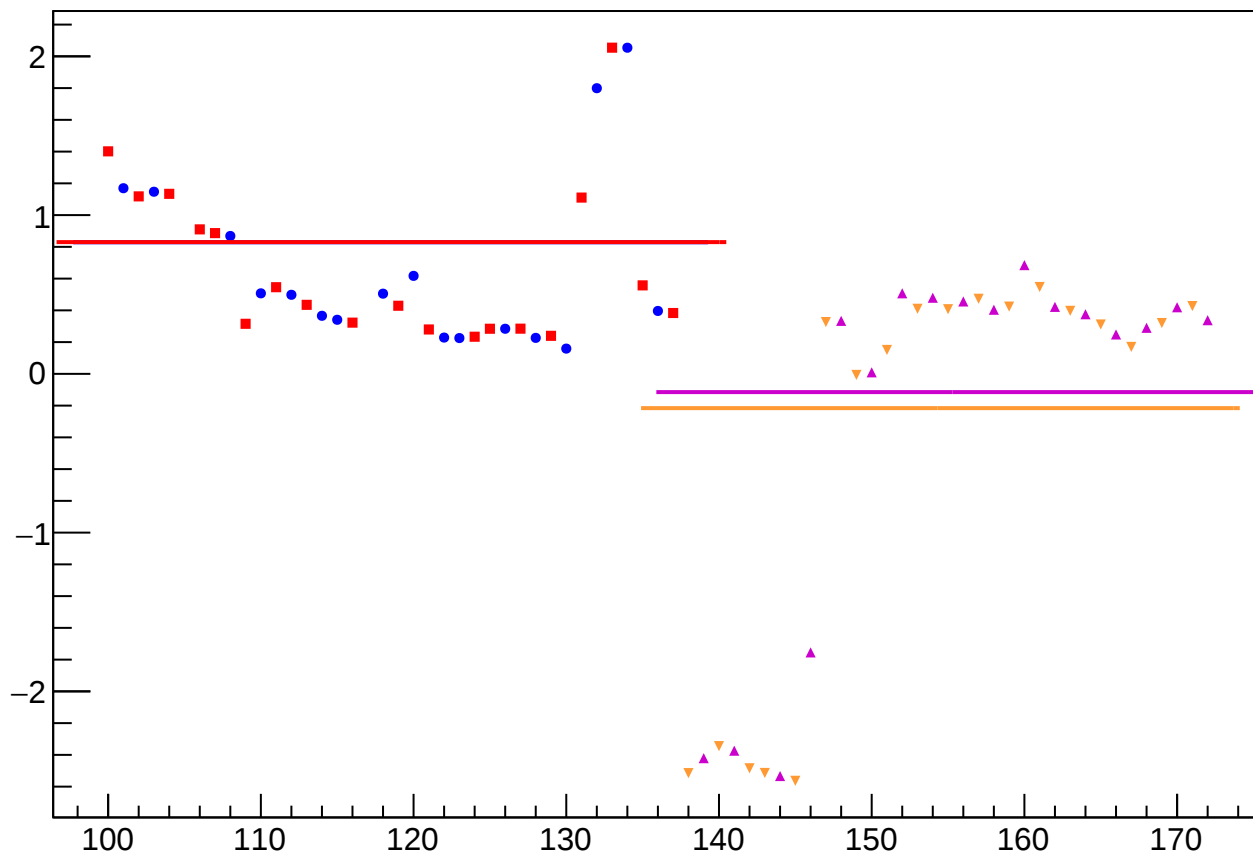
Right: 0.003+/-0.000 $\chi^2/\text{NDF}: 388552.5/35$

In: 0.004+/-0.000 $\chi^2/\text{NDF}: 2932273.4/33$

Out: 0.004+/-0.000 $\chi^2/\text{NDF}: 3121294.6/36$

All: 0.004+/-0.000 $\chi^2/\text{NDF}: 6058254.3/70$

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.216+/-0.000 χ^2/NDF : 469935645137.3/17

Right Out: 0.830+/-0.000 χ^2/NDF : 33335665437.8/18

Left In: -0.115+/-0.000 χ^2/NDF : 404210740426.0/16

Left: -0.166+/-0.000 χ^2/NDF : 876008228572.9/34

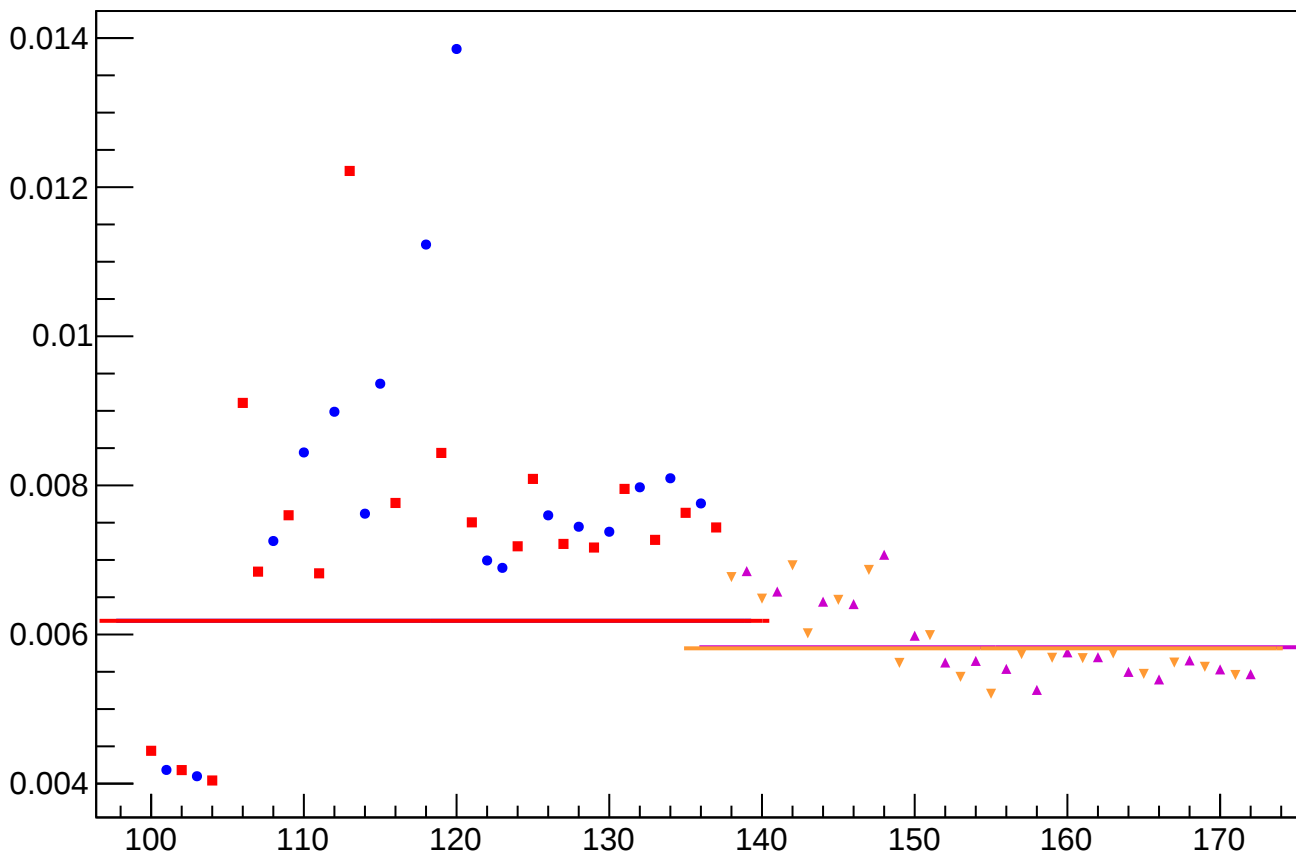
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.147+/-0.000 χ^2/NDF : 525411250292.6/33

Out: 0.089+/-0.000 χ^2/NDF : 620934374007.8/36

All: 0.117+/-0.000 χ^2/NDF : 1147194454220.0

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1228962.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :159749.4/17

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF :172071.0/16

Left: 0.006+/-0.000 χ^2/NDF : 331898.0/34

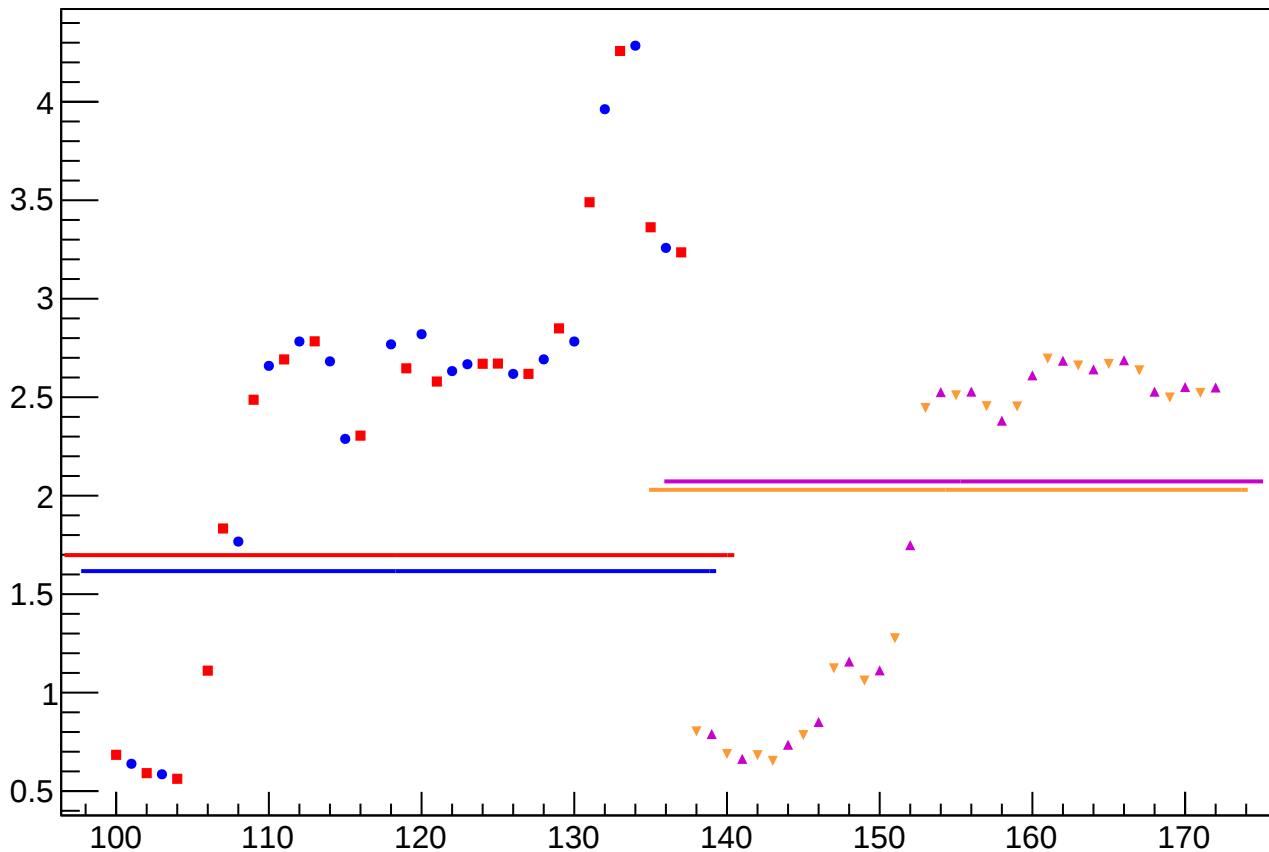
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1426420.2/33

Out: 0.006+/-0.000 χ^2/NDF :1215871.3/36

All: 0.006+/-0.000 χ^2/NDF : 2642307.2/70

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.030 $\pm$ 0.000 χ^2/NDF : 259166737171.9/17

Right Out: 1.698 $\pm$ 0.000 χ^2/NDF : 227408345801.7/18

Left In: 2.072 $\pm$ 0.000 χ^2/NDF : 228315880877.6/16

Left: 2.051 $\pm$ 0.000 χ^2/NDF : 487864026606.5/34

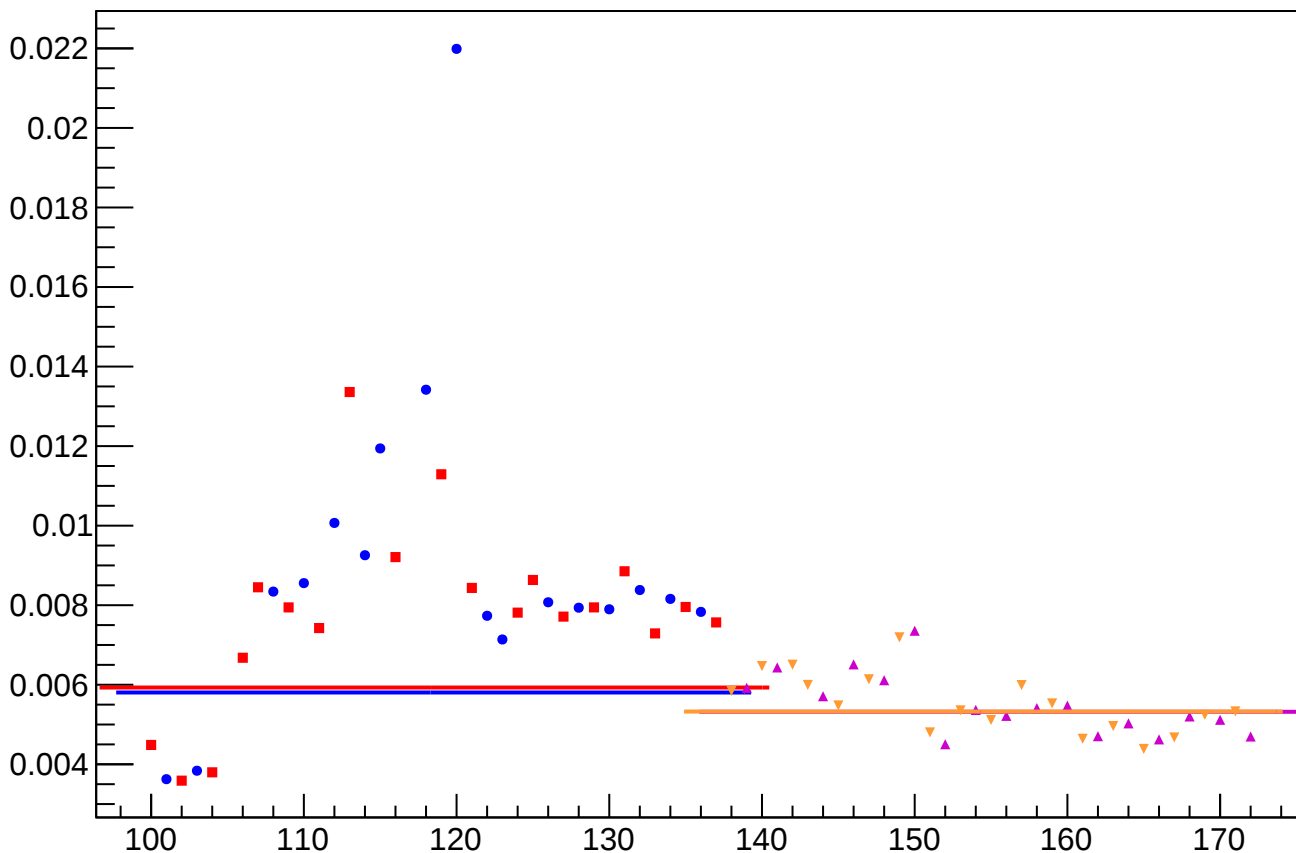
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 430781224378.3/35

In: 1.956 $\pm$ 0.000 χ^2/NDF : 453328325658.4/33

Out: 1.941 $\pm$ 0.000 χ^2/NDF : 498854113613.5/36

All: 1.949 $\pm$ 0.000 χ^2/NDF : 952245475301.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 361446.5/17

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF : 372456.9/16

Left: 0.005+/-0.000 χ^2/NDF : 733921.3/34

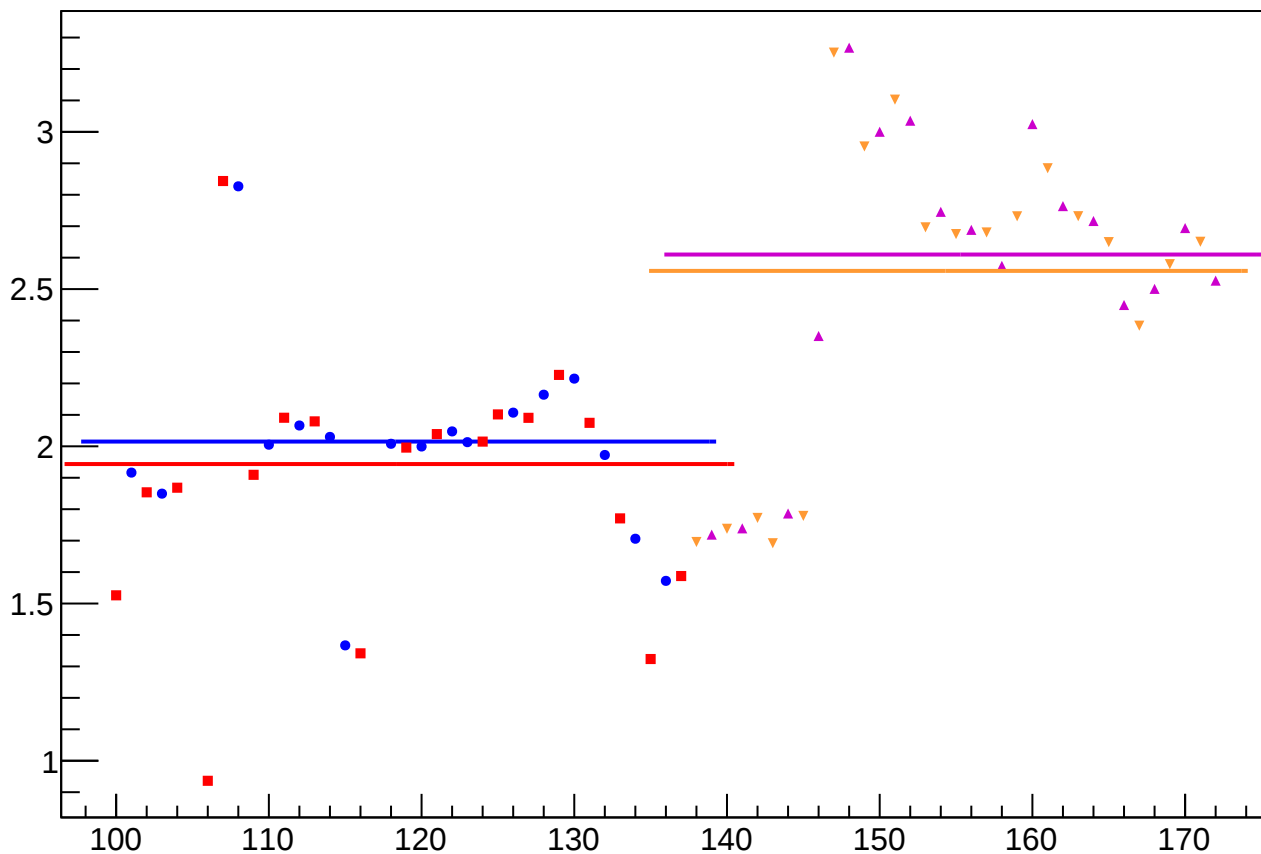
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF : 2340708.9/33

Out: 0.005+/-0.000 χ^2/NDF : 2128407.2/36

All: 0.005+/-0.000 χ^2/NDF : 4470199.5/70

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.558+/-0.000 χ^2/NDF : 48705166189.1/17

Right Out: 1.944+/-0.000 χ^2/NDF : 21427099579.0/18

Left In: 2.610+/-0.000 χ^2/NDF : 41303234161.5/16

Left: 2.584+/-0.000 χ^2/NDF : 90323026994.2/34

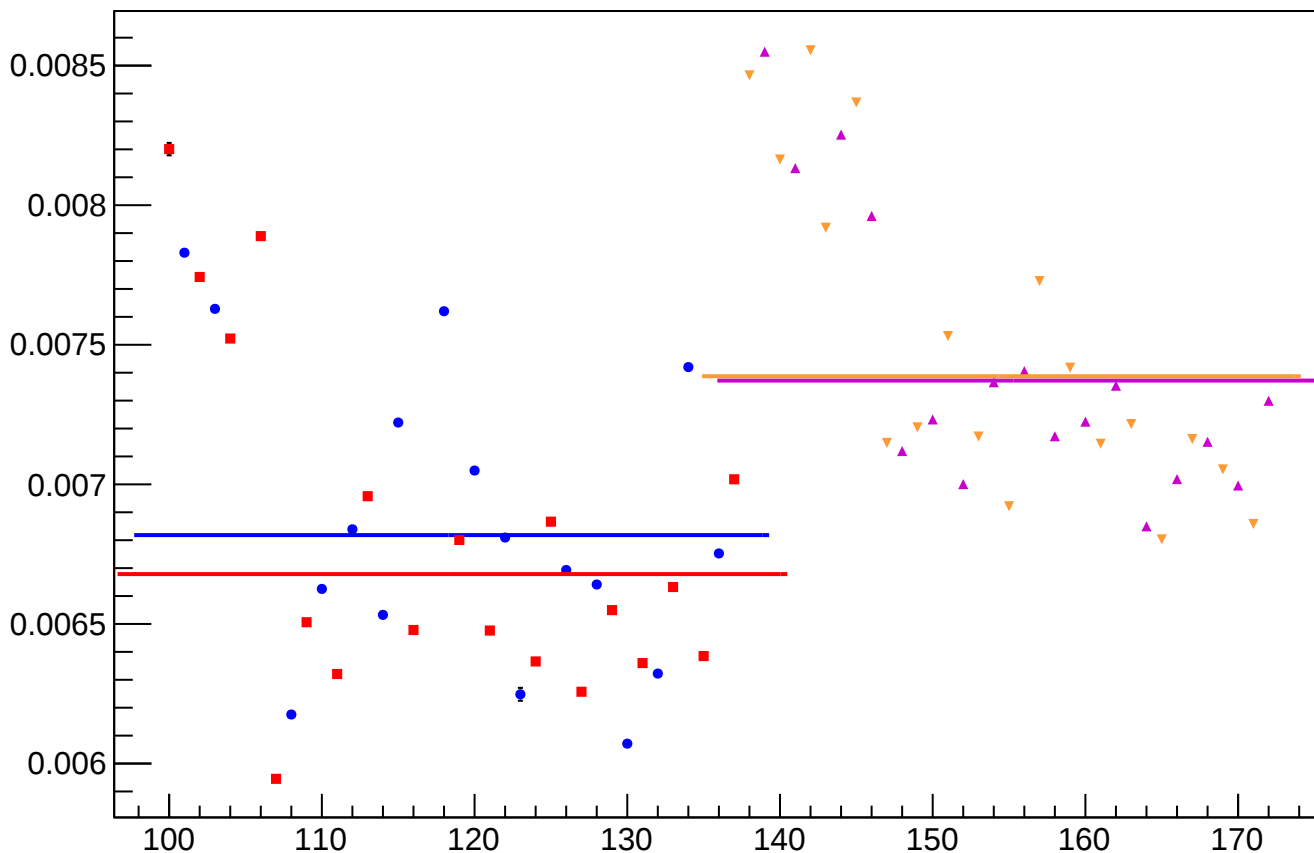
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.389+/-0.000 χ^2/NDF : 83957242941.0/33

Out: 2.315+/-0.000 χ^2/NDF : 104869068284.9/36

All: 2.351+/-0.000 χ^2/NDF : 189849444518.5

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 :115282.9/17

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF :90442.8/16

Left: 0.007+/-0.000 χ^2/NDF : 205781.9/34

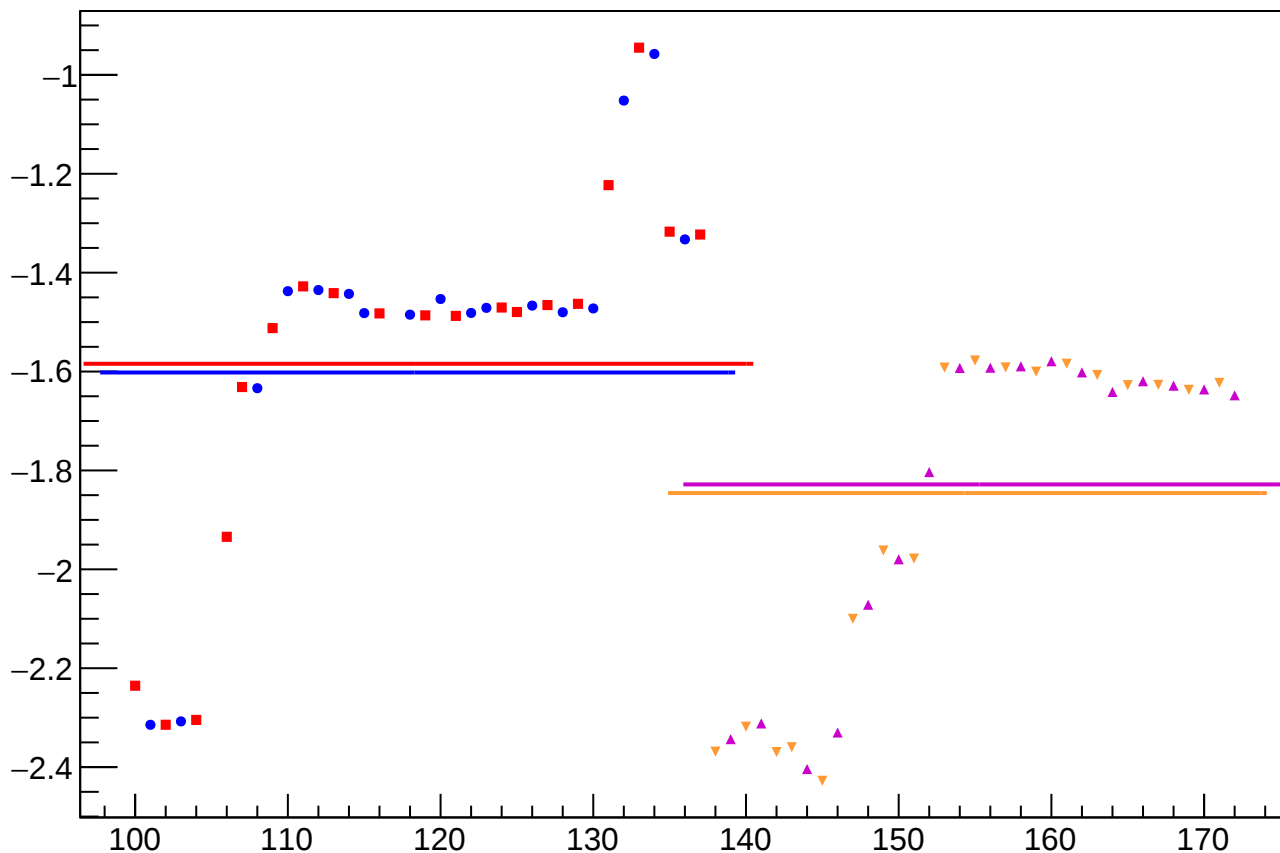
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :218953.8/33

Out: 0.007+/-0.000 χ^2/NDF :283479.6/36

All: 0.007+/-0.000 χ^2/NDF : 503732.6/70

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.846+/-0.000 χ^2/NDF : 168283272327.9/17

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.828+/-0.000 χ^2/NDF : 150968496581.3/16

Left: -1.837+/-0.000 χ^2/NDF : 319499315907.9/34

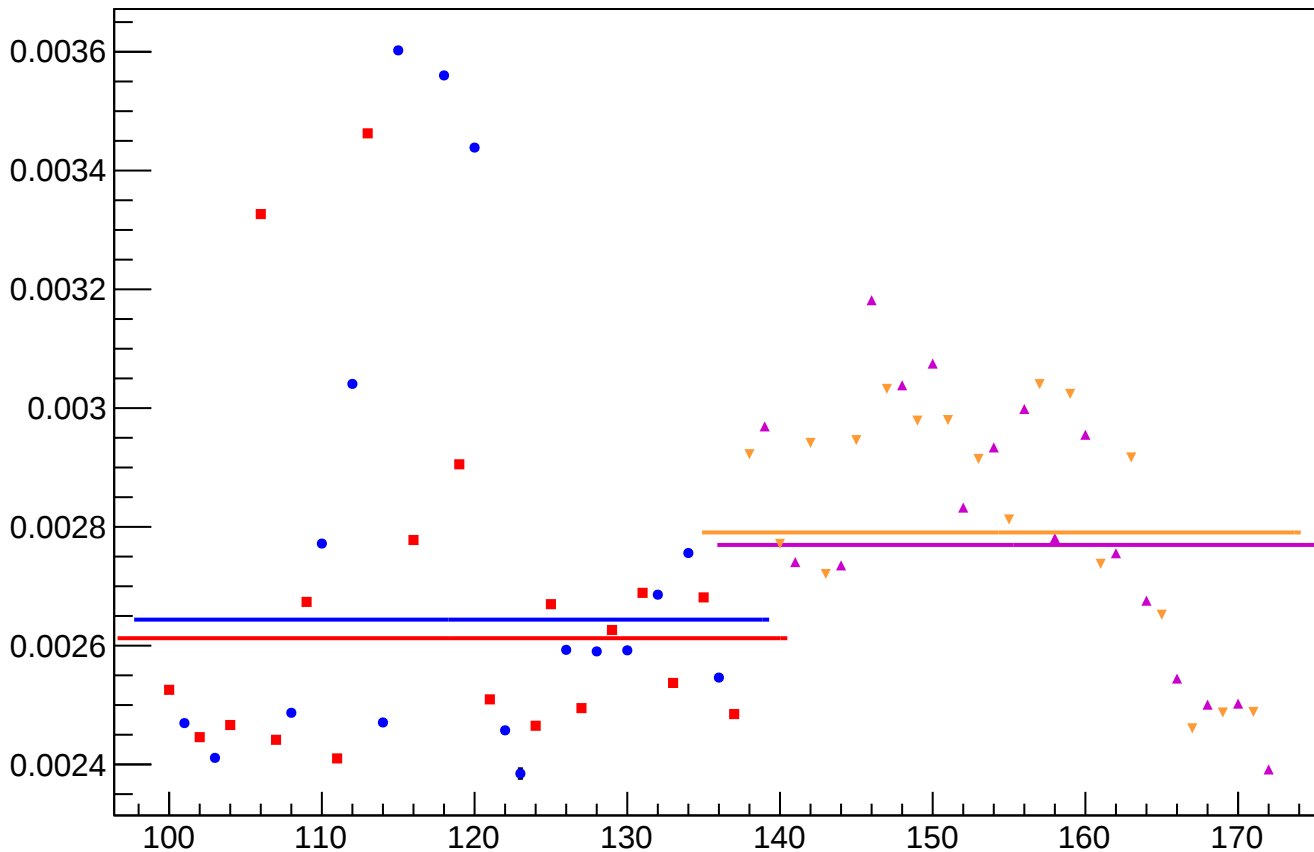
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.748+/-0.000 χ^2/NDF : 320882652065.6/33

Out: -1.748+/-0.000 χ^2/NDF : 353604286801.6/36

All: -1.748+/-0.000 χ^2/NDF : 674487169444.7

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :132516.0/17

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :159898.1/16

Left: 0.003+/-0.000 χ^2/NDF : 293134.6/34

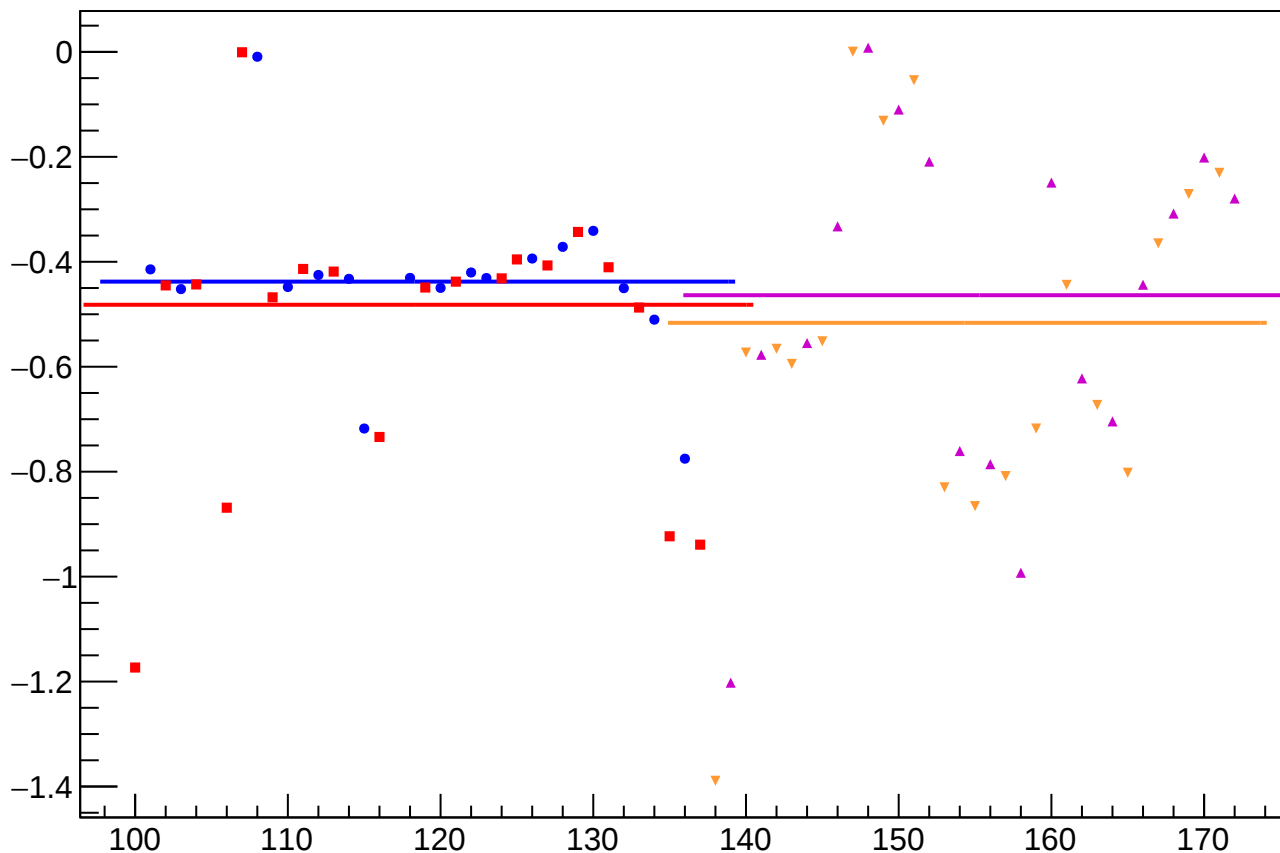
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :329620.7/33

Out: 0.003+/-0.000 χ^2/NDF :276550.1/36

All: 0.003+/-0.000 χ^2/NDF : 606174.7/70

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.516+/-0.000 χ^2/NDF : 8927582865.6/17

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.464+/-0.000 χ^2/NDF : 7964658856.2/16

Left: -0.490+/-0.000 χ^2/NDF : 17006080324.4/34

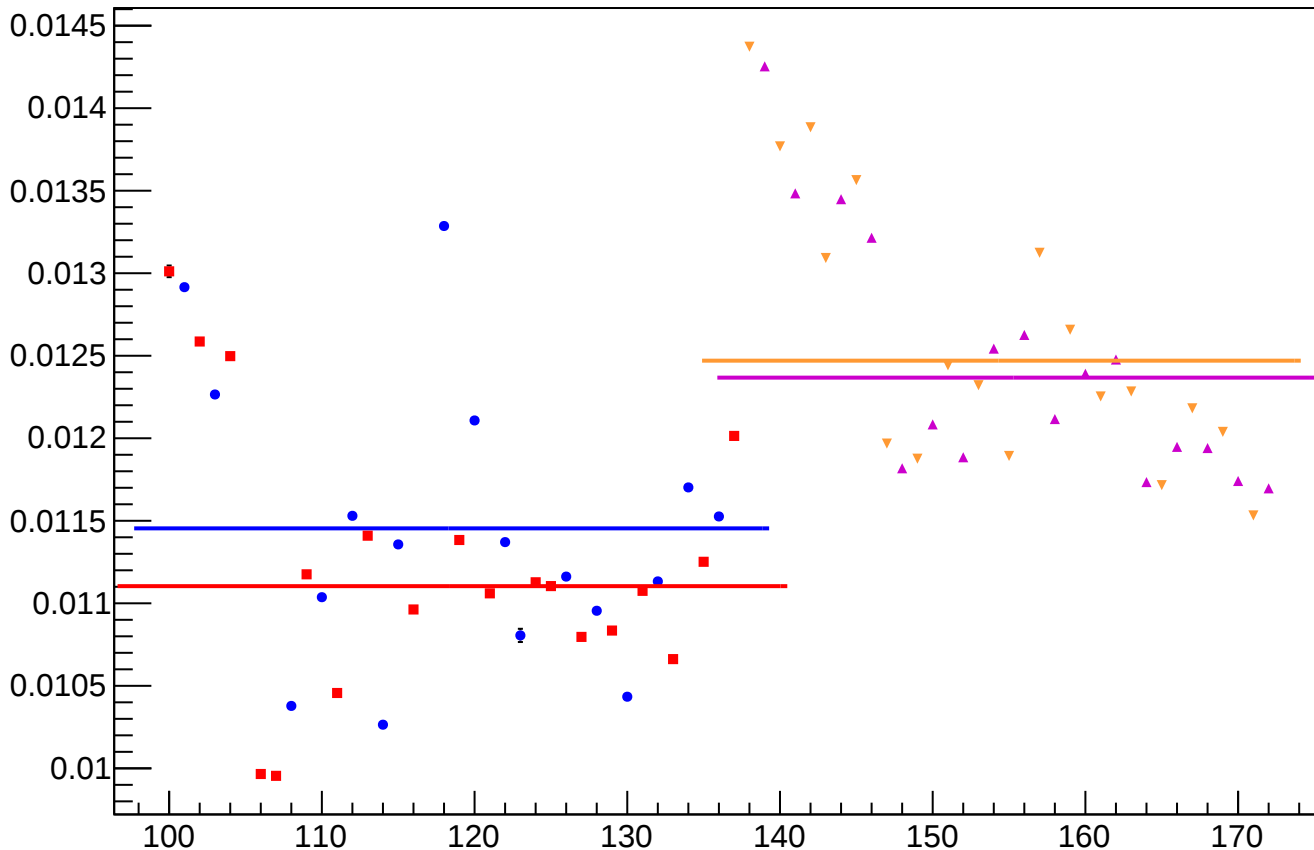
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.454+/-0.000 χ^2/NDF : 9447793170.2/33

Out: -0.502+/-0.000 χ^2/NDF : 11661808372.8/36

All: -0.479+/-0.000 χ^2/NDF : 21267358184.9/79

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.012+/-0.000 χ^2/NDF : 89761.0/17

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.012+/-0.000 χ^2/NDF : 74573.5/16

Left: 0.012+/-0.000 χ^2/NDF : 165203.0/34

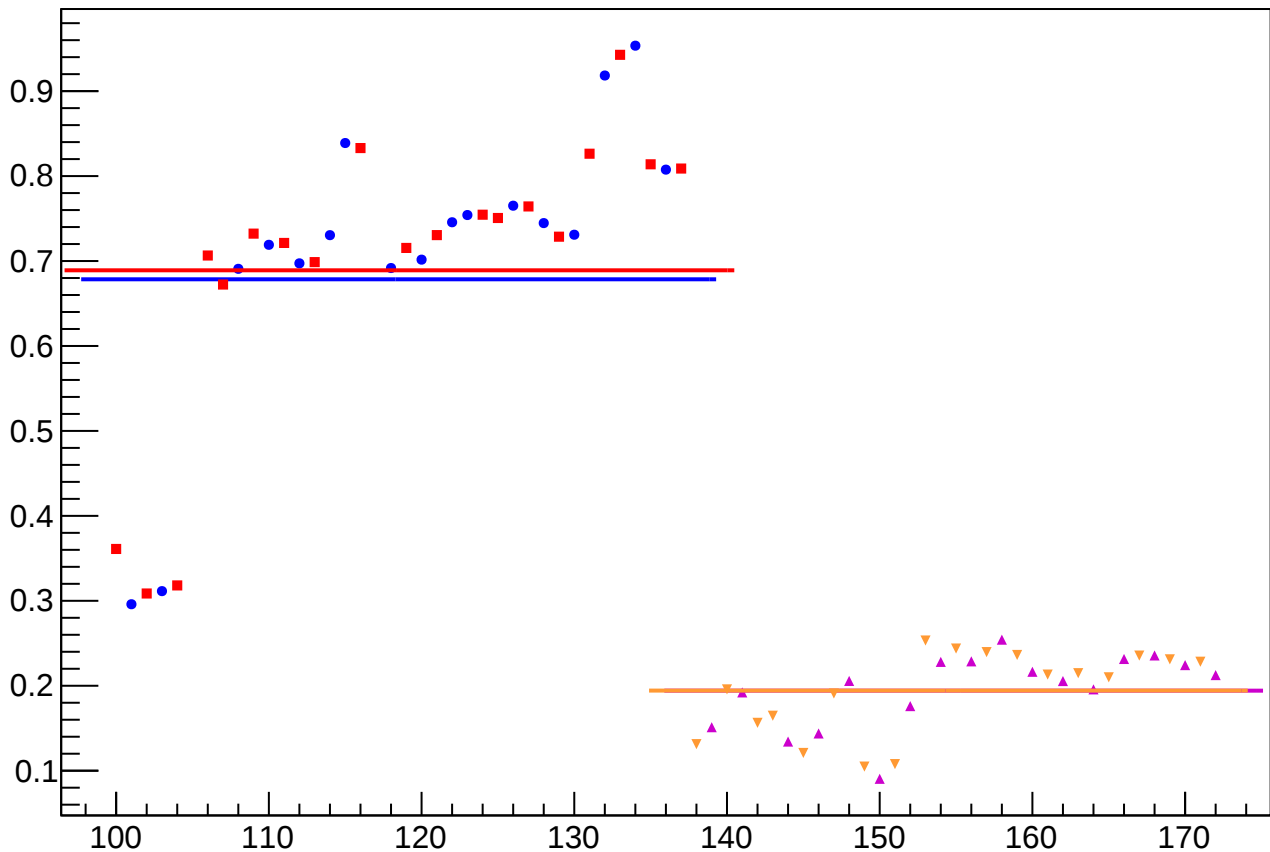
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF : 190677.3/33

Out: 0.012+/-0.000 χ^2/NDF : 270490.6/36

All: 0.012+/-0.000 χ^2/NDF : 462794.2/70

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.194+/-0.000 χ^2/NDF : 6498223030.4/17

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.194+/-0.000 χ^2/NDF : 5161546800.7/16

Left: 0.194+/-0.000 χ^2/NDF : 11659780878.5/34

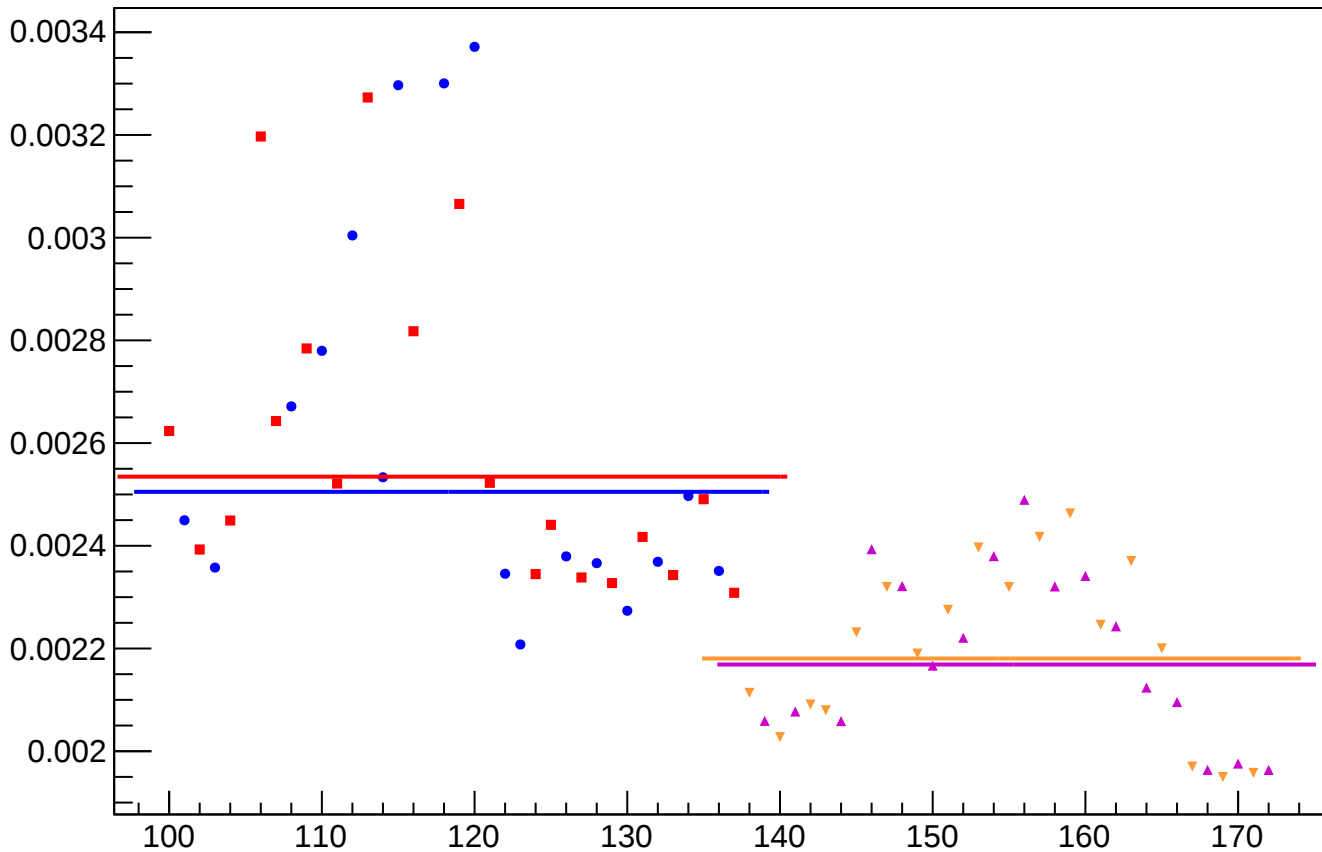
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.324+/-0.000 χ^2/NDF : 217768201597.1/33

Out: 0.329+/-0.000 χ^2/NDF : 227578749956.6/36

All: 0.327+/-0.000 χ^2/NDF : 445391604920.3

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 :149774.2/17

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF :140378.1/16

Left: 0.002+/-0.000 χ^2/NDF : 290540.4/34

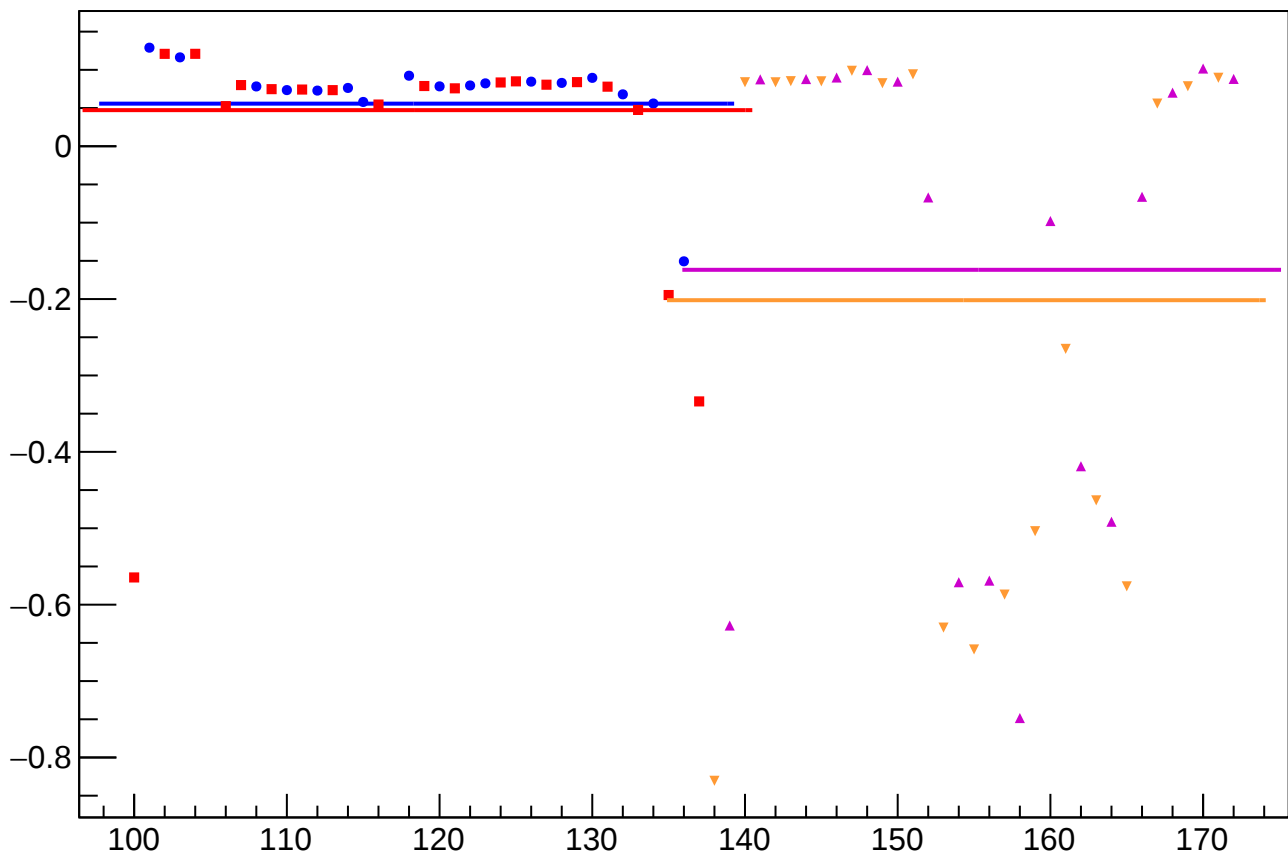
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :483820.9/33

Out: 0.002+/-0.000 χ^2/NDF :471508.5/36

All: 0.002+/-0.000 χ^2/NDF : 956556.7/70

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000 χ^2 /NDF: 423003688.1/16

Left Out: -0.201 $\pm$ 0.000 χ^2 /NDF: 11080972215.0/17

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 819588537.2/18

Left In: -0.162 $\pm$ 0.000 χ^2 /NDF: 9323287311.8/16

Left: -0.182 $\pm$ 0.000 χ^2 /NDF: 20483682417.9/34

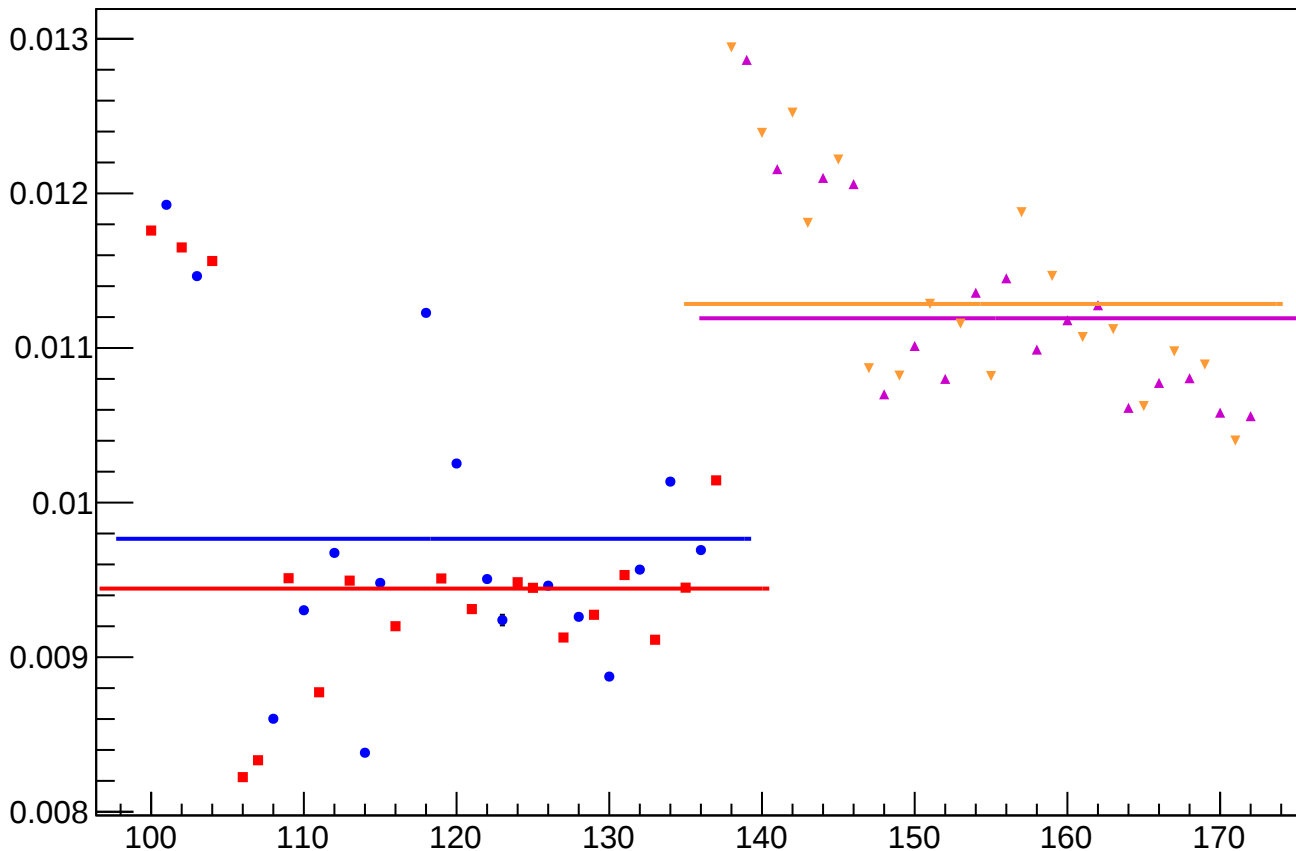
Right: 0.051 $\pm$ 0.000 χ^2 /NDF: 1245197626.4/35

In: -0.074 $\pm$ 0.000 χ^2 /NDF: 11654287199.6/33

Out: -0.093 $\pm$ 0.000 χ^2 /NDF: 14605859517.7/36

All: -0.084 $\pm$ 0.000 χ^2 /NDF: 26291366886.1/70

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116638.3/16

Left Out: 0.011+/-0.000 χ^2/NDF : 84050.7/17

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 73560.3/16

Left: 0.011+/-0.000 χ^2/NDF : 158472.5/34

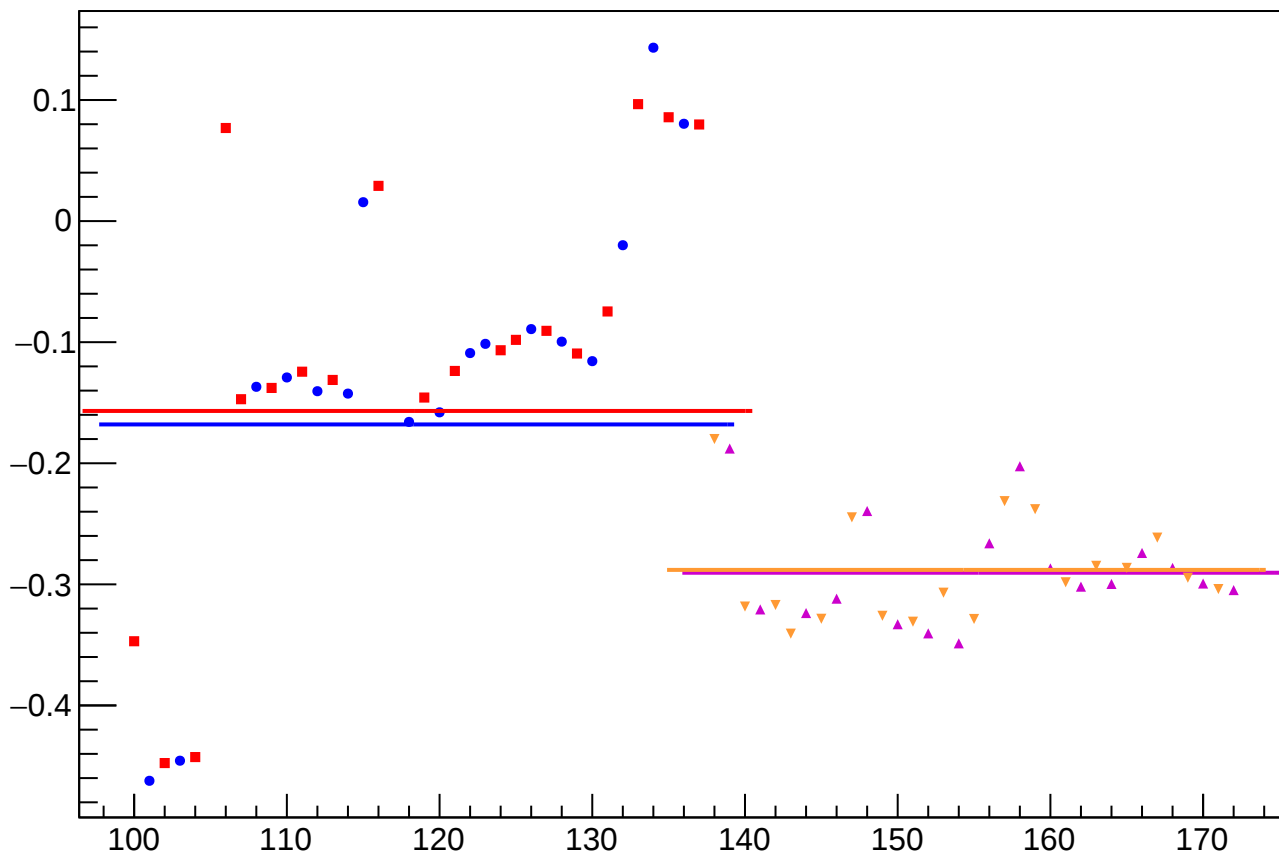
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF : 354355.3/33

Out: 0.010+/-0.000 χ^2/NDF : 491172.3/36

All: 0.011+/-0.000 χ^2/NDF : 848662.8/70

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.288+/-0.000 χ^2/NDF : 2807017606.8/17

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.290+/-0.000 χ^2/NDF : 3114221622.7/16

Left: -0.289+/-0.000 χ^2/NDF : 5925816701.2/34

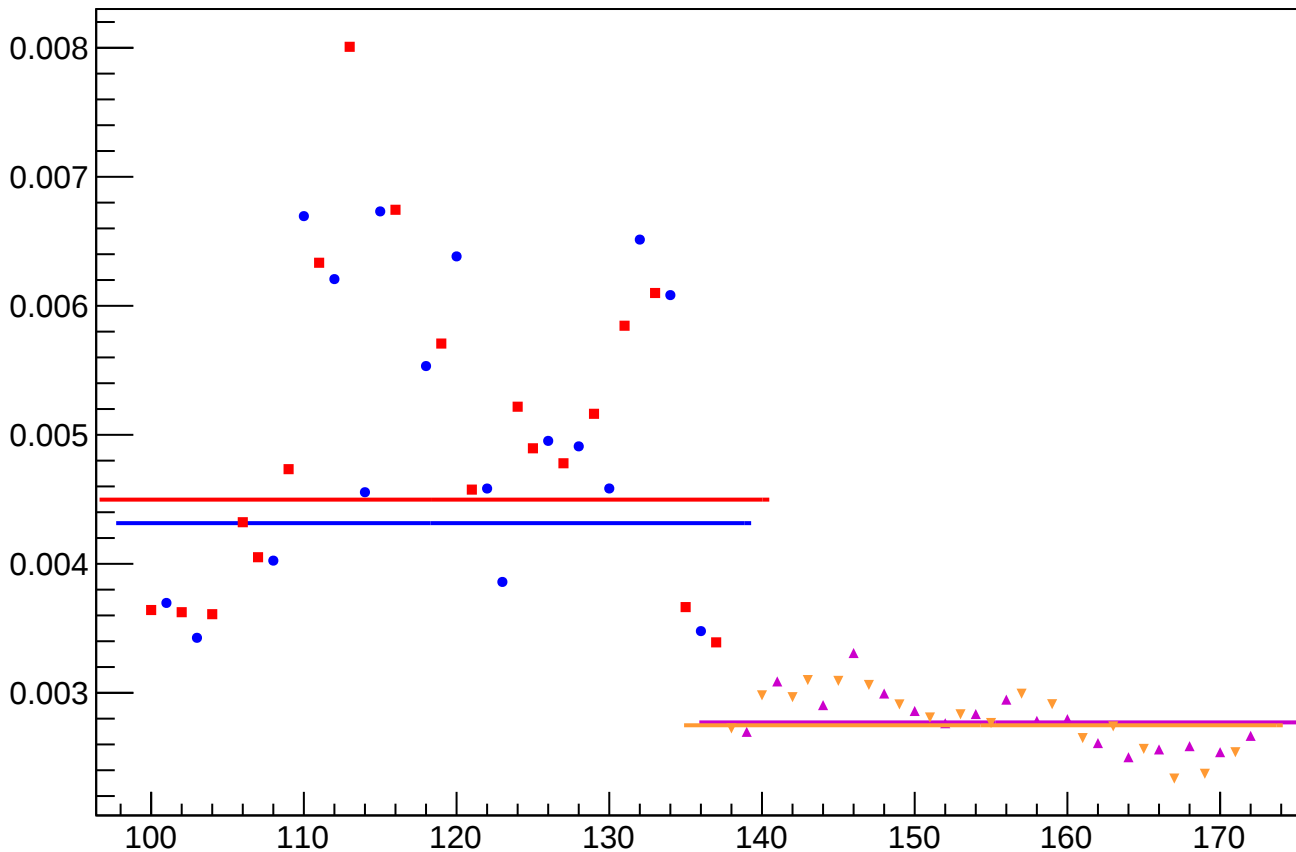
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.271+/-0.000 χ^2/NDF : 19374641383.3/33

Out: -0.268+/-0.000 χ^2/NDF : 18317877654.0/36

All: -0.269+/-0.000 χ^2/NDF : 37700820679.7/70

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 619744.7/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:189394.2/17

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 649708.4/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:123904.7/16

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 314125.5/34

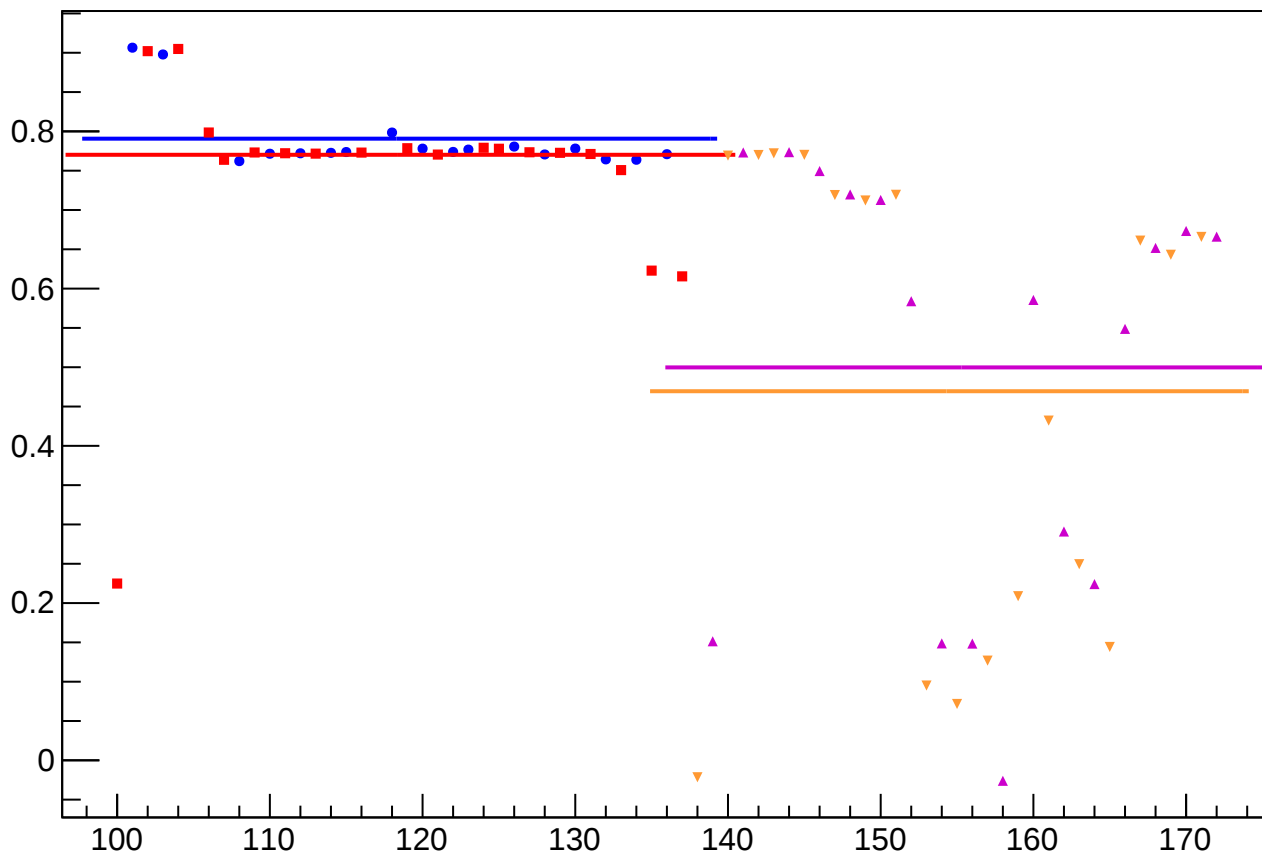
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1279743.5/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:1993183.7/33

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:2431302.3/36

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 4424487.6/70

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106705767.1/16

Left Out: 0.469 $\pm$ 0.000 χ^2 /NDF: 8552585912.5/17

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375442189.7/18

Left In: 0.500 $\pm$ 0.000 χ^2 /NDF: 7245281001.6/16

Left: 0.485 $\pm$ 0.000 χ^2 /NDF: 15846406250.6/34

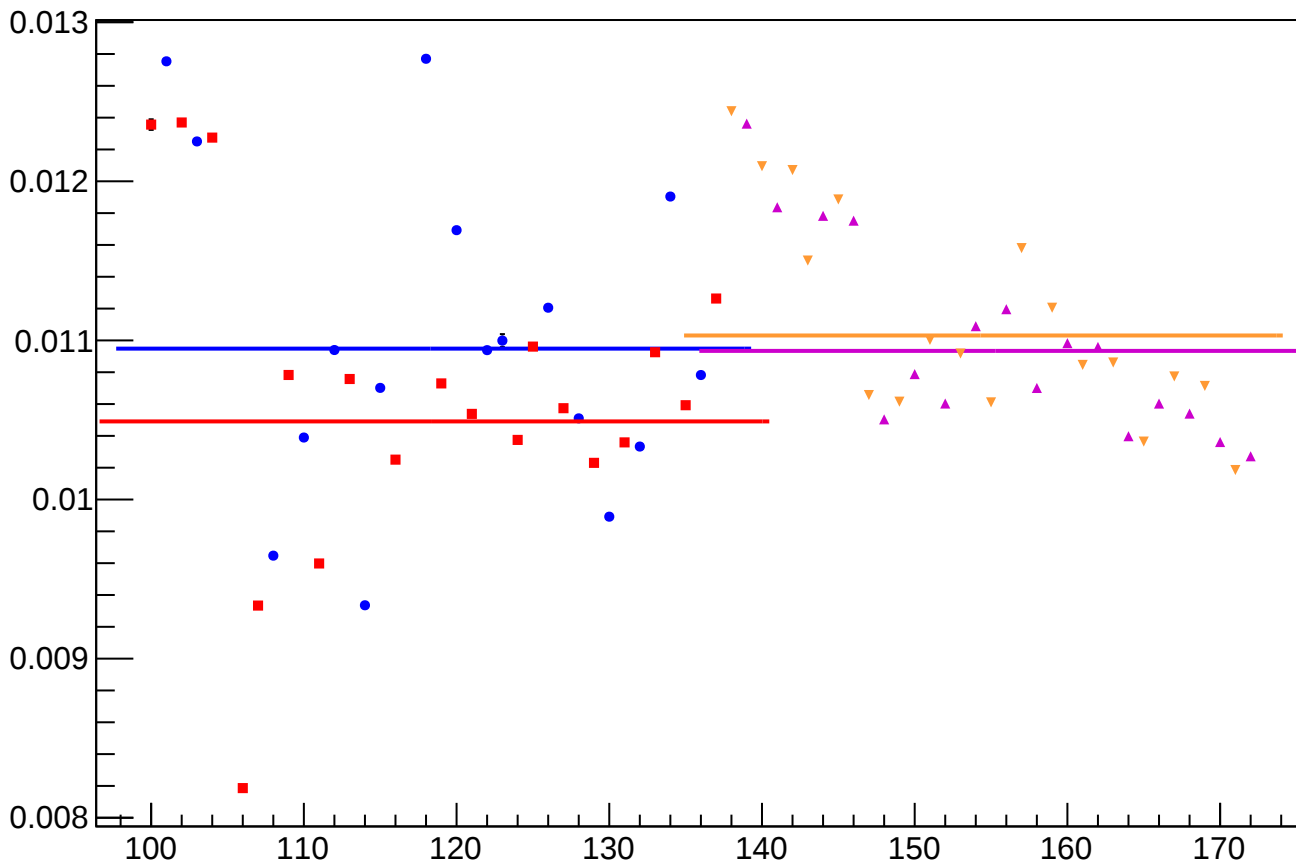
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494318002.1/35

In: 0.598 $\pm$ 0.000 χ^2 /NDF: 10368917676.0/33

Out: 0.581 $\pm$ 0.000 χ^2 /NDF: 12488915832.3/36

All: 0.589 $\pm$ 0.000 χ^2 /NDF: 22880118624.5/71

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 : 73353.8/17

Right Out: 0.010+/-0.000 χ^2/NDF : 119420.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 65855.6/16

Left: 0.011+/-0.000 χ^2/NDF : 140202.2/34

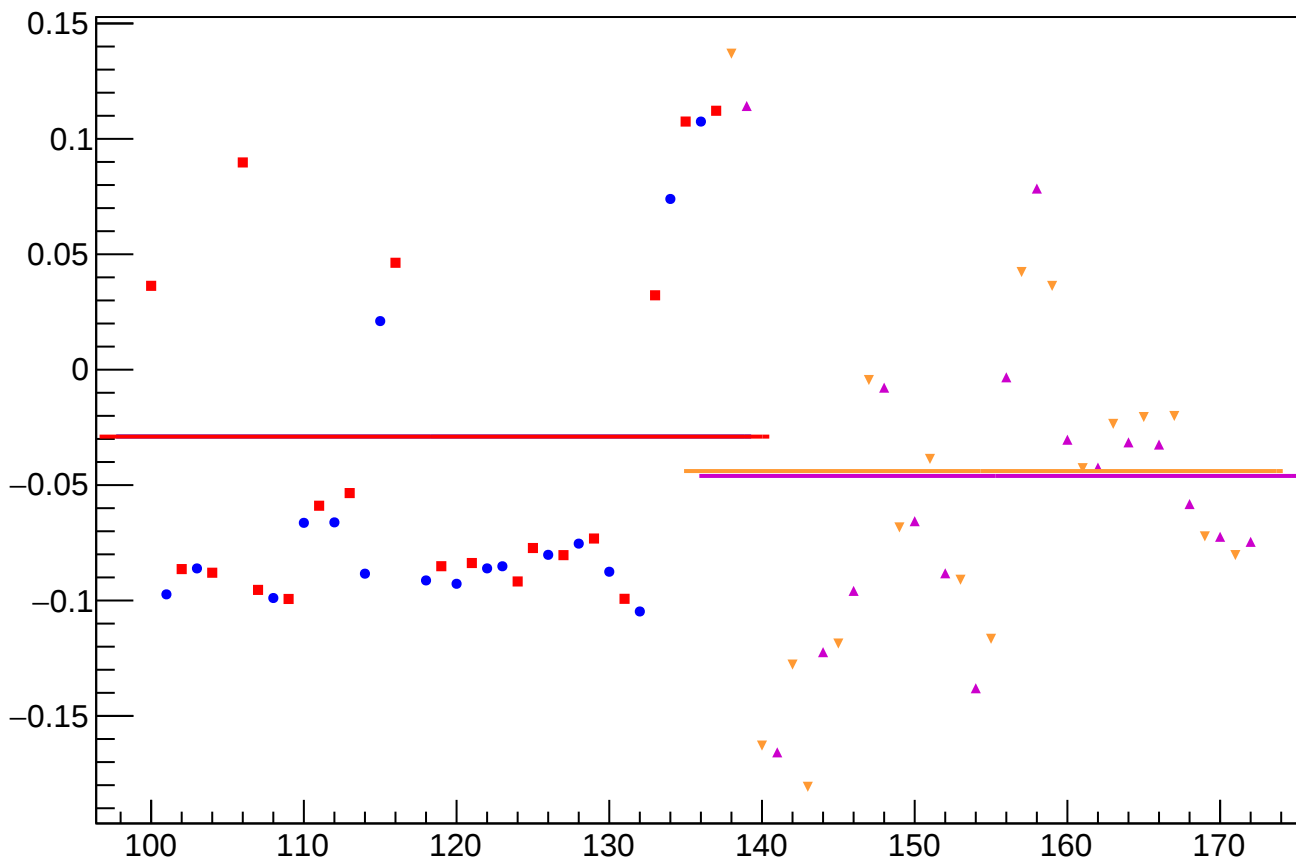
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 164421.5/33

Out: 0.011+/-0.000 χ^2/NDF : 215743.0/36

All: 0.011+/-0.000 χ^2/NDF : 382106.3/70

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.045+/-0.000

χ^2/NDF : 13001244848.0/34

Left Out: -0.044+/-0.000

χ^2/NDF : 6988308362.3/17

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.043+/-0.000

χ^2/NDF : 8528408042.6/33

Out: -0.041+/-0.000

χ^2/NDF : 9155608858.5/36

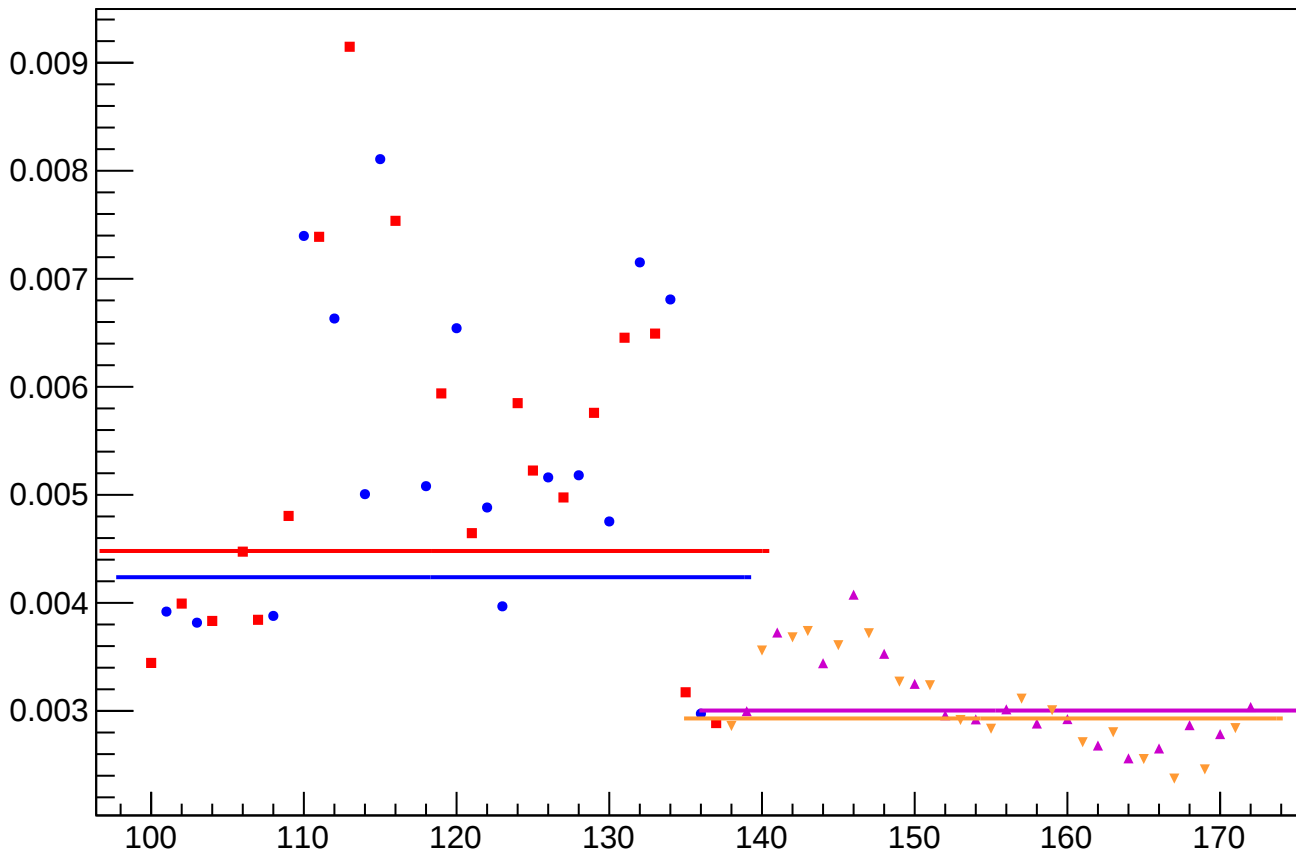
Left In: -0.046+/-0.000

χ^2/NDF : 6009801563.8/16

All: -0.042+/-0.000

χ^2/NDF : 17685863309.5/79

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 : 461286.9/17

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 309046.9/16

Left: 0.003+/-0.000 χ^2/NDF : 777848.8/34

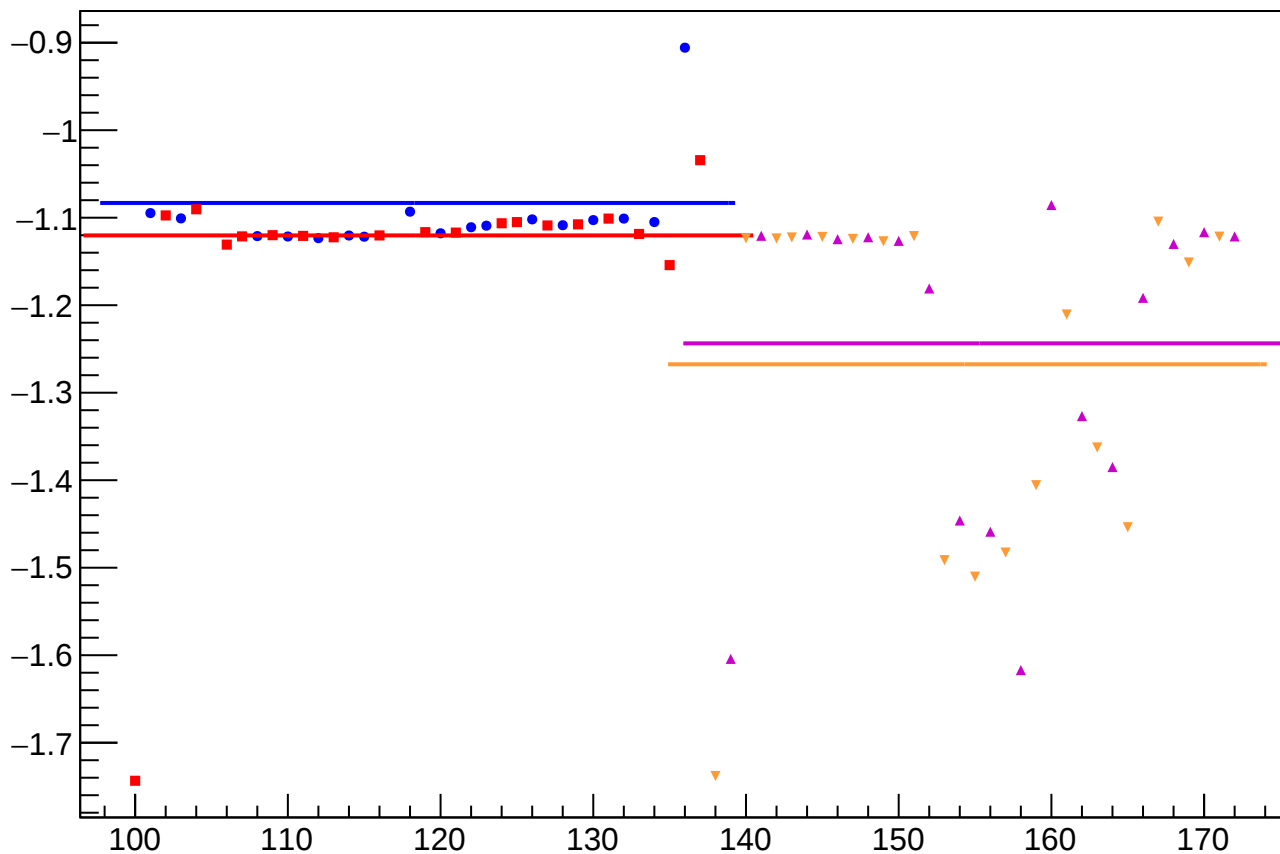
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1947993.7/33

Out: 0.003+/-0.000 χ^2/NDF : 2610149.1/36

All: 0.003+/-0.000 χ^2/NDF : 4560923.3/70

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.268+/-0.000 χ^2/NDF : 4400260468.0/17

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.244+/-0.000 χ^2/NDF : 3954579986.4/16

Left: -1.256+/-0.000 χ^2/NDF : 8392317718.0/34

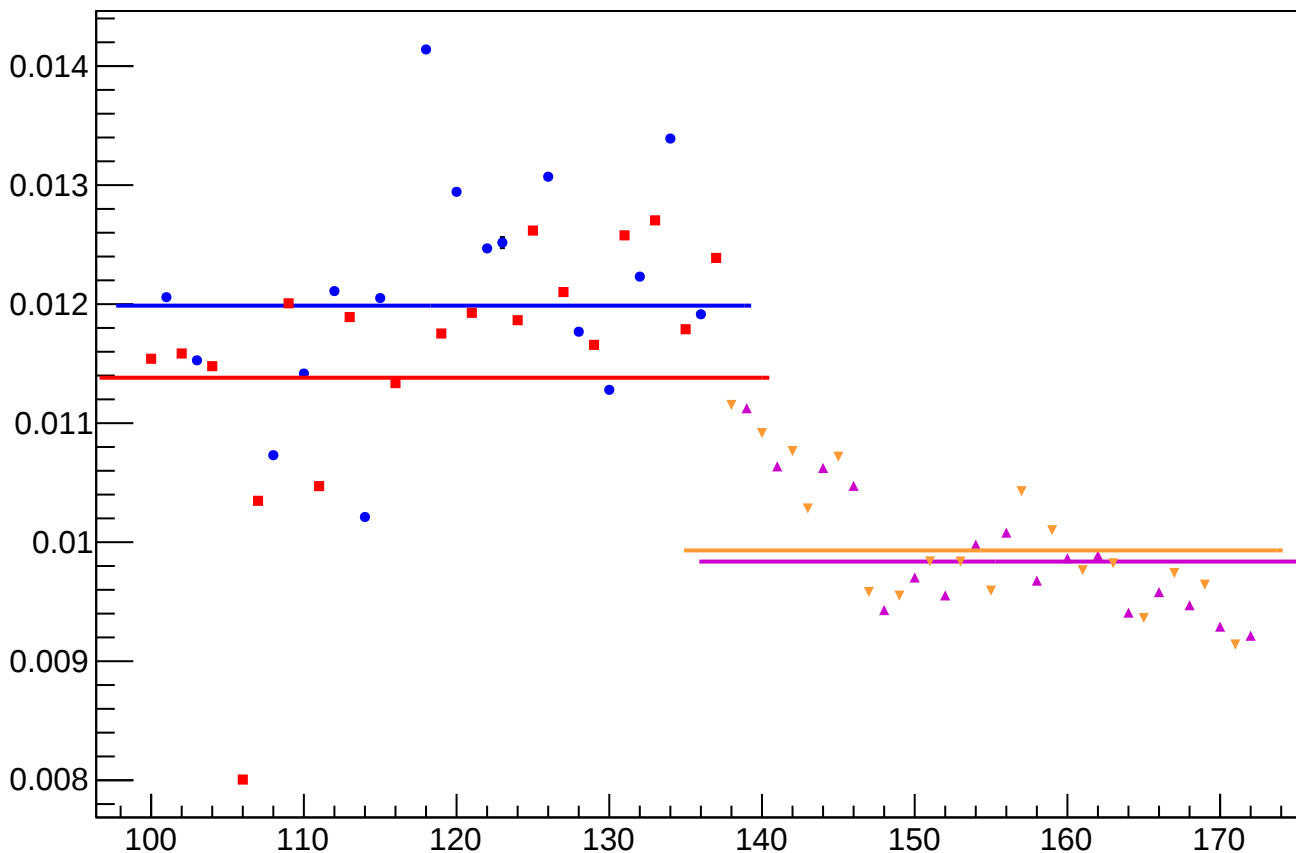
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.203+/-0.000 χ^2/NDF : 5017557225.9/33

Out: -1.225+/-0.000 χ^2/NDF : 5438046571.0/36

All: -1.214+/-0.000 χ^2/NDF : 10500902733.6/79

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: 71748.4/17

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 65164.1/16

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 138062.0/34

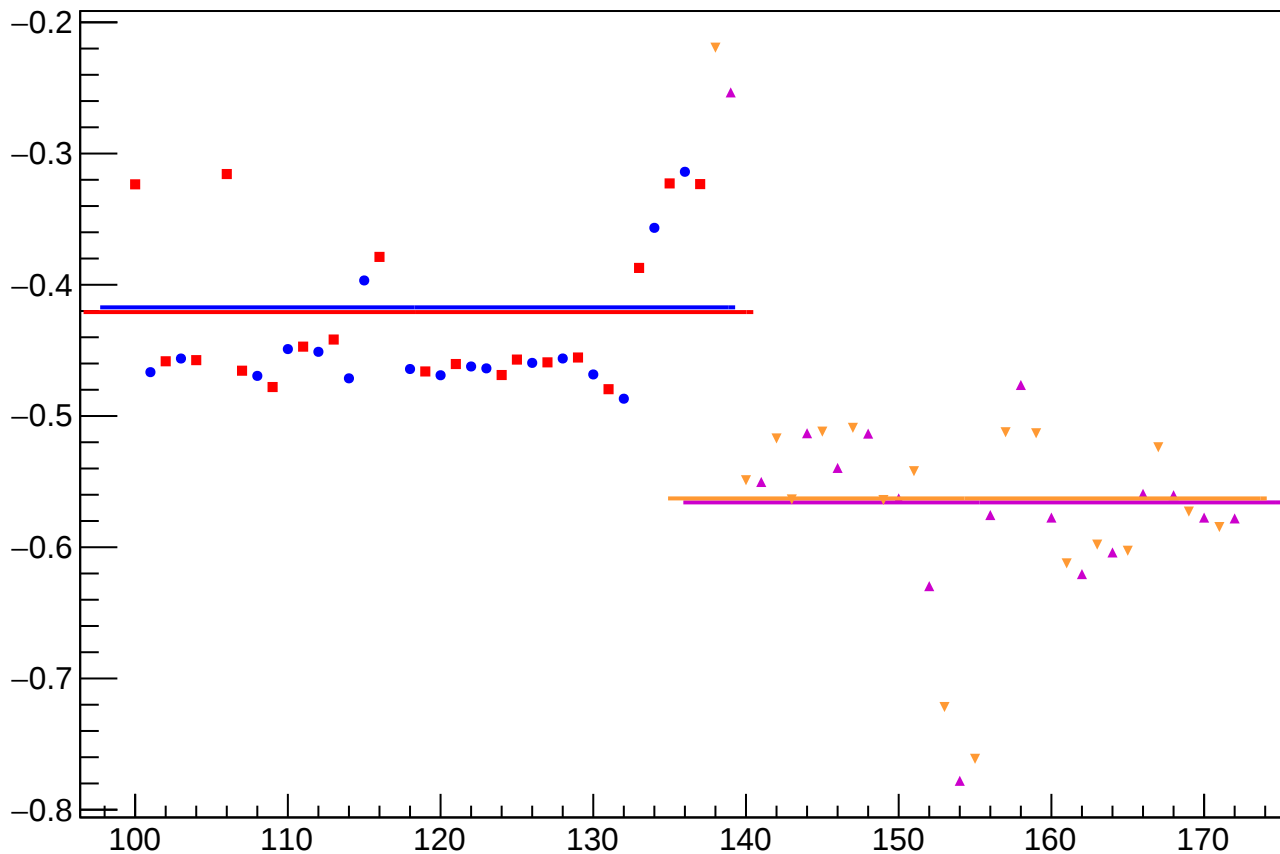
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 434348.1/33

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 384897.9/36

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 819490.0/70

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.563+/-0.000 χ^2/NDF : 13289521094.1/17

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.566+/-0.000 χ^2/NDF : 10431426254.2/16

Left: -0.564+/-0.000 χ^2/NDF : 23726168958.9/34

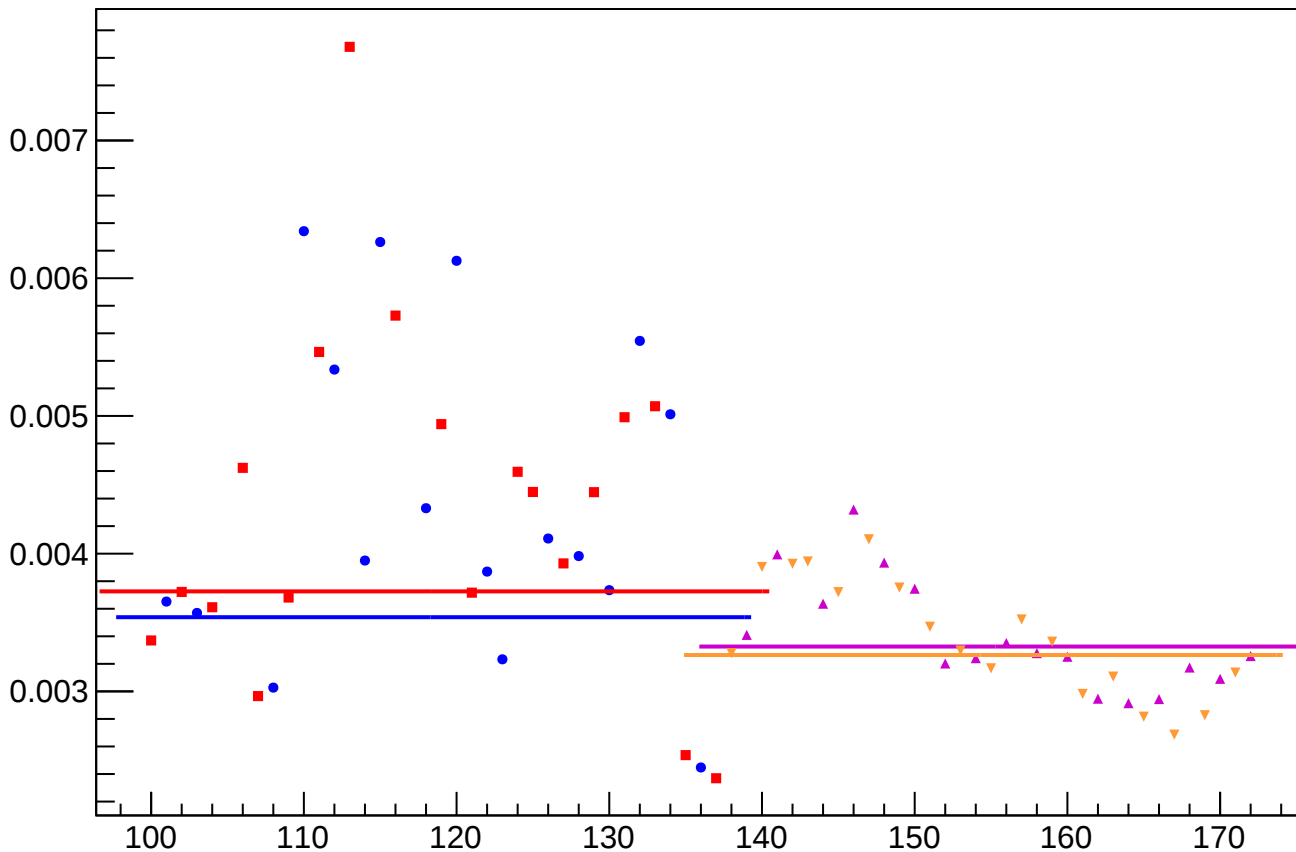
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.524+/-0.000 χ^2/NDF : 19356524508.1/33

Out: -0.525+/-0.000 χ^2/NDF : 21183214613.6/36

All: -0.524+/-0.000 χ^2/NDF : 40540964096.3/70

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 : 372486.2/17

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF : 262345.3/16

Left: 0.003+/-0.000 χ^2/NDF : 639136.1/34

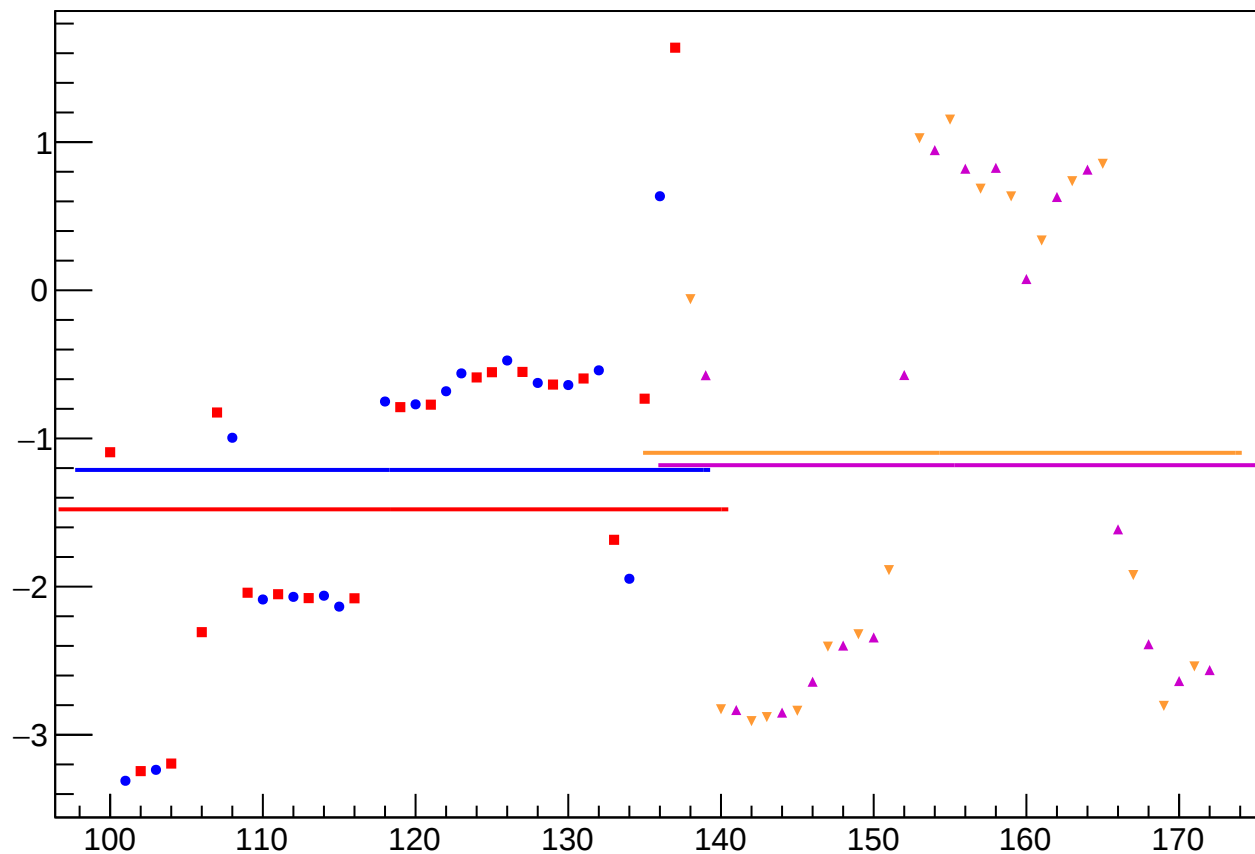
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF : 1126815.0/33

Out: 0.003+/-0.000 χ^2/NDF : 1403355.3/36

All: 0.003+/-0.000 χ^2/NDF : 2530171.7/70

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212+/-0.000 χ^2/NDF : 1992853443.9/16

Left Out: -1.097+/-0.000 χ^2/NDF : 6121585428.2/17

Right Out: -1.478+/-0.000 χ^2/NDF : 1578264383.8/18

Left In: -1.180+/-0.000 χ^2/NDF : 5182199445.2/16

Left: -1.138+/-0.000 χ^2/NDF : 11311814773.9/34

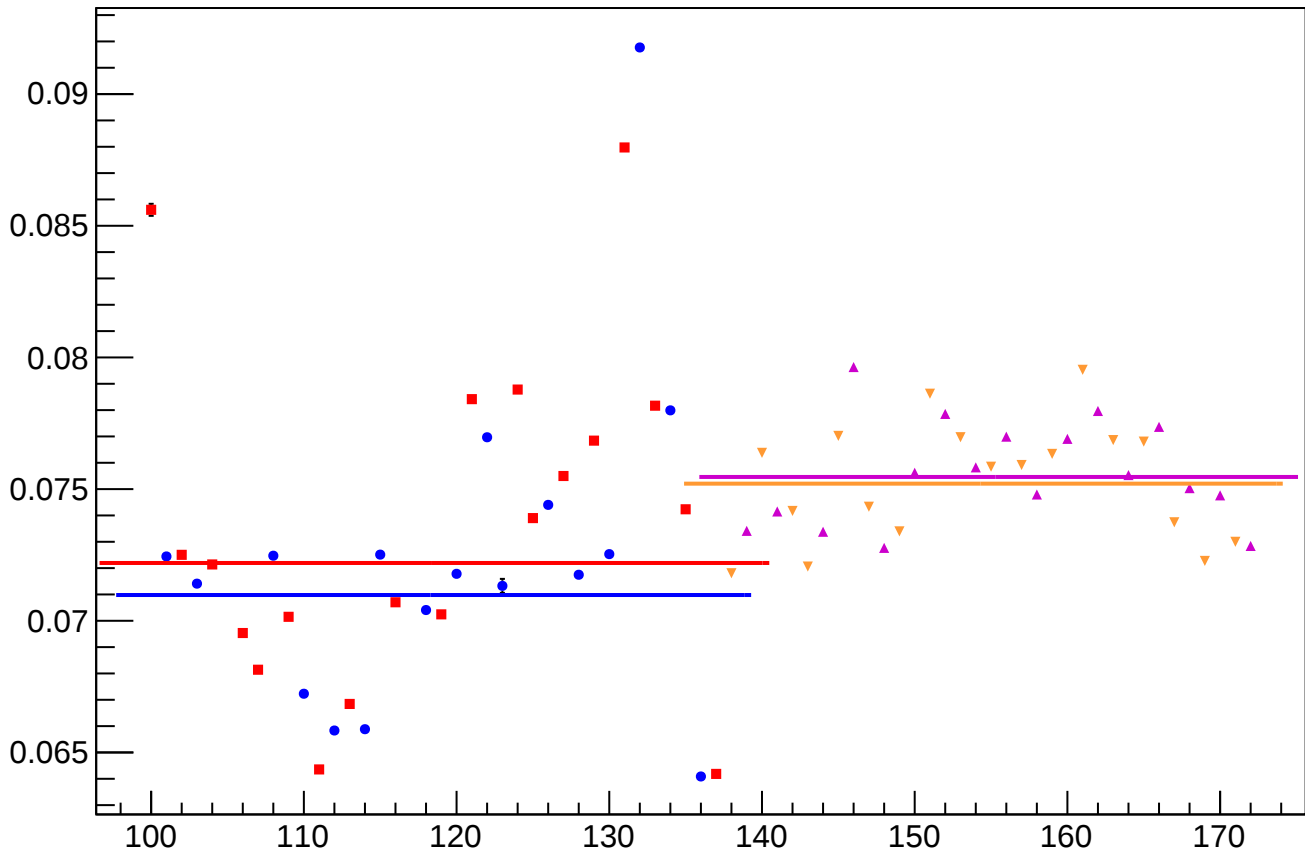
Right: -1.347+/-0.000 χ^2/NDF : 3617796481.7/35

In: -1.192+/-0.000 χ^2/NDF : 7175900229.3/33

Out: -1.236+/-0.000 χ^2/NDF : 7823534631.5/36

All: -1.214+/-0.000 χ^2/NDF : 15002849547.1/140

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.075+/-0.000 χ^2/NDF : 23104.9/17

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.075+/-0.000 χ^2/NDF : 16200.6/16

Left: 0.075+/-0.000 χ^2/NDF : 39454.5/34

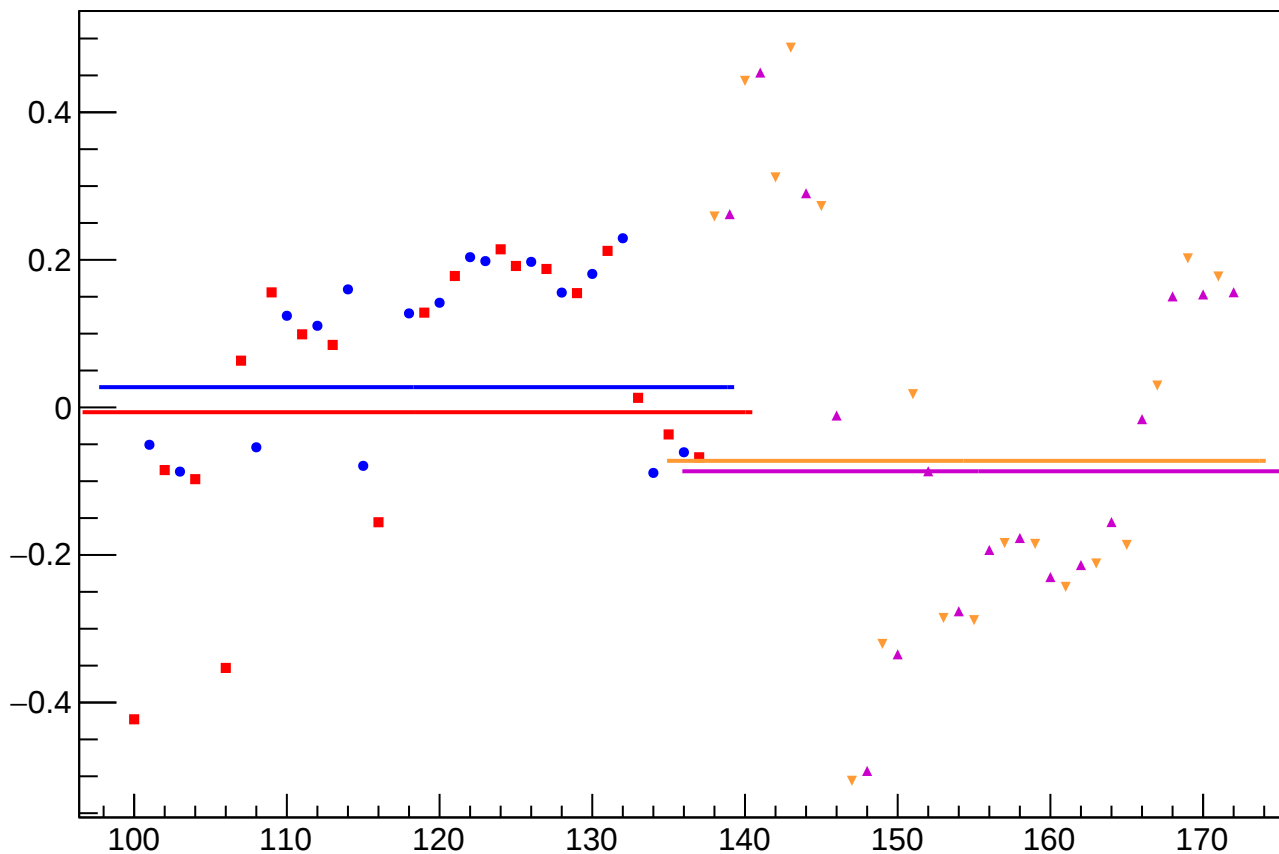
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 127078.9/33

Out: 0.074+/-0.000 χ^2/NDF : 111757.8/36

All: 0.074+/-0.000 χ^2/NDF : 239137.8/70

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 562337631.4/16

Left Out: -0.072+/-0.000 χ^2/NDF : 17395235746.8/17

Right Out: -0.007+/-0.000 χ^2/NDF : 1199278894.0/18

Left In: -0.087+/-0.000 χ^2/NDF : 13220935053.8/16

Left: -0.079+/-0.000 χ^2/NDF : 30644808165.5/34

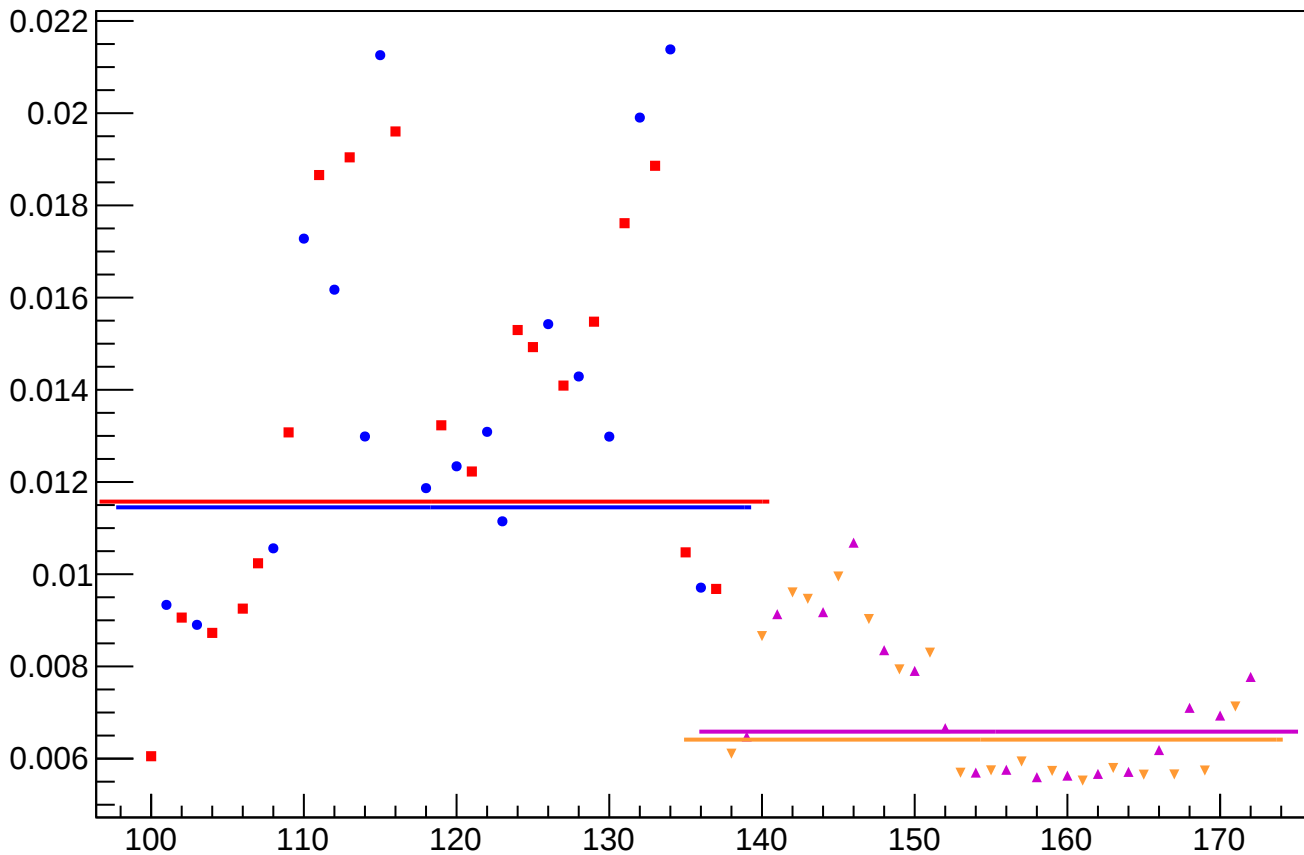
Right: 0.010+/-0.000 χ^2/NDF : 1787030042.0/35

In: -0.071+/-0.000 χ^2/NDF : 14275026781.1/33

Out: -0.064+/-0.000 χ^2/NDF : 18762020557.7/36

All: -0.067+/-0.000 χ^2/NDF : 33045254582.3/79

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.006+/-0.000 χ^2/NDF :942064.4/17

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.007+/-0.000 χ^2/NDF :828440.6/16

Left: 0.006+/-0.000 χ^2/NDF : 1779063.4/34

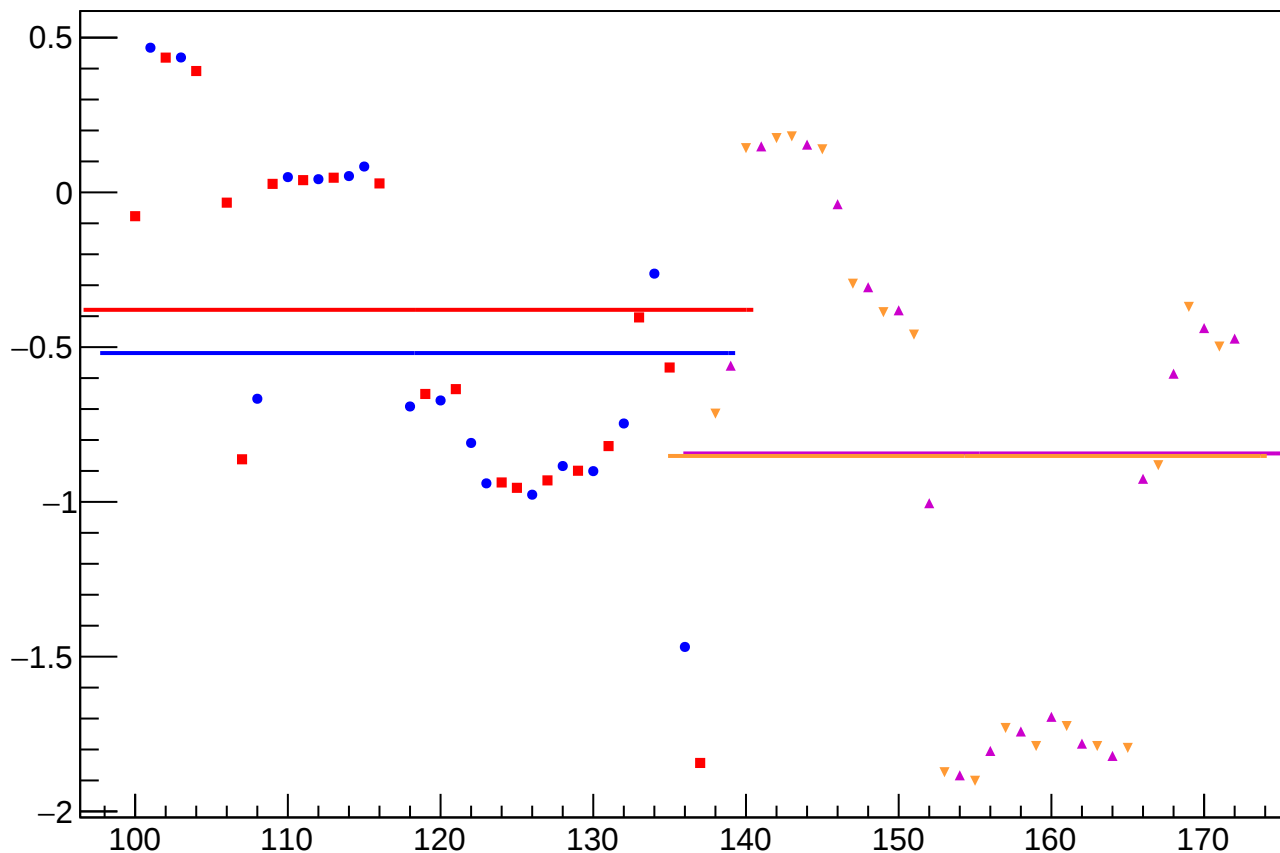
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF :3299026.2/33

Out: 0.007+/-0.000 χ^2/NDF :3994315.2/36

All: 0.007+/-0.000 χ^2/NDF : 7303039.8/70

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 $\chi^2/\text{NDF}: 339383872.4/16$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 1052080272.7/17$

Right Out: -0.379 ± 0.000 $\chi^2/\text{NDF}: 268621179.0/18$

Left In: -0.843 ± 0.000 $\chi^2/\text{NDF}: 899286477.9/16$

Left: -0.848 ± 0.000 $\chi^2/\text{NDF}: 1951422264.8/34$

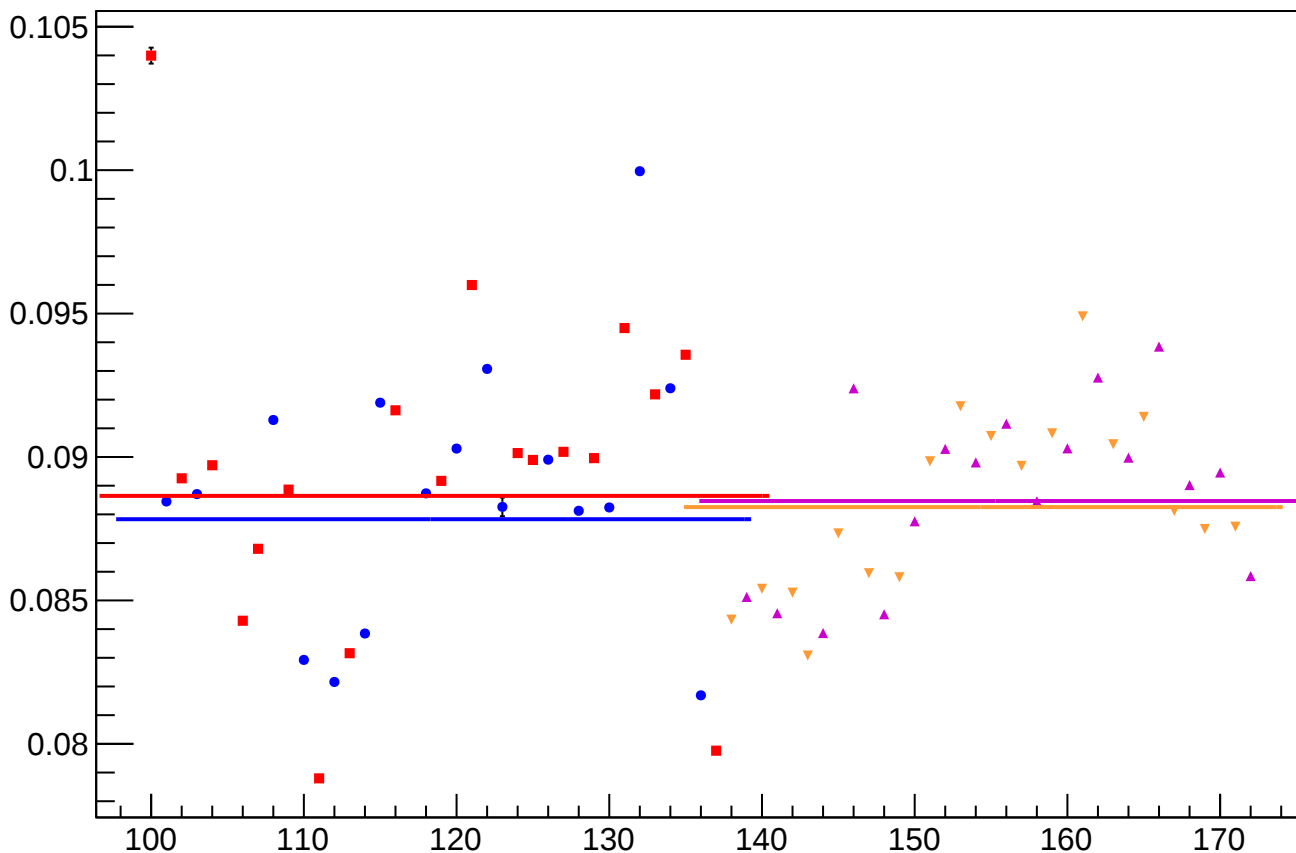
Right: -0.448 ± 0.000 $\chi^2/\text{NDF}: 616632603.2/35$

In: -0.733 ± 0.000 $\chi^2/\text{NDF}: 1298700217.5/33$

Out: -0.689 ± 0.000 $\chi^2/\text{NDF}: 1452595211.9/36$

All: -0.710 ± 0.000 $\chi^2/\text{NDF}: 2753763839.6/7$

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 : 29616.3/17

Right Out: 0.089+/-0.000 χ^2/NDF : 39722.9/18

Left In: 0.088+/-0.000 χ^2/NDF : 29078.4/16

Left: 0.088+/-0.000 χ^2/NDF : 58769.9/34

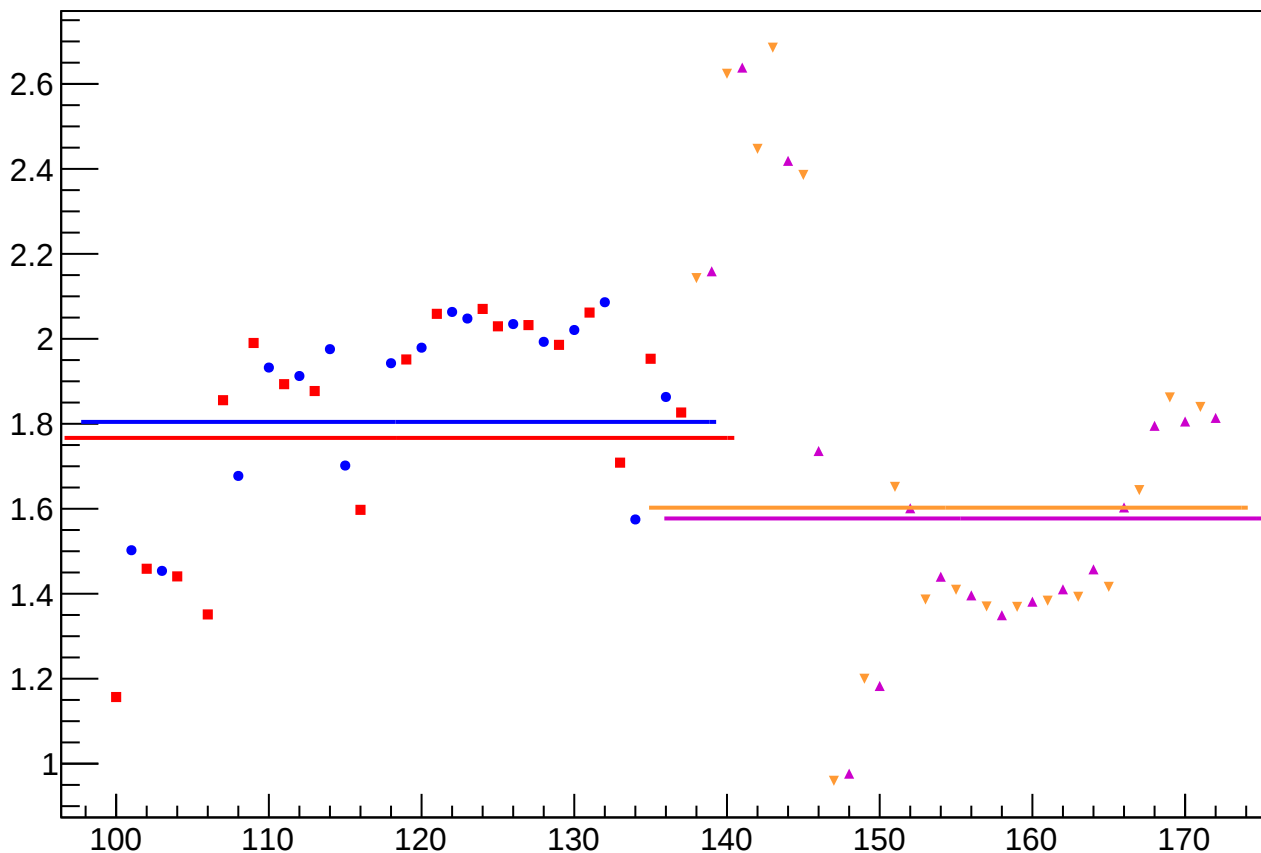
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF : 64491.5/33

Out: 0.088+/-0.000 χ^2/NDF : 69519.4/36

All: 0.088+/-0.000 χ^2/NDF : 134061.7/70

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000

χ^2/NDF : 1156747883.2/16

Left: 1.590 $\pm$ 0.000

χ^2/NDF : 44118224985.4/34

Left Out: 1.603 $\pm$ 0.000

χ^2/NDF : 24797155174.2/17

Right: 1.786 $\pm$ 0.000

χ^2/NDF : 2883751688.5/35

Right Out: 1.767 $\pm$ 0.000

χ^2/NDF : 1709259284.5/18

In: 1.610 $\pm$ 0.000

χ^2/NDF : 21568416828.2/33

Out: 1.624 $\pm$ 0.000

χ^2/NDF : 27075733719.1/36

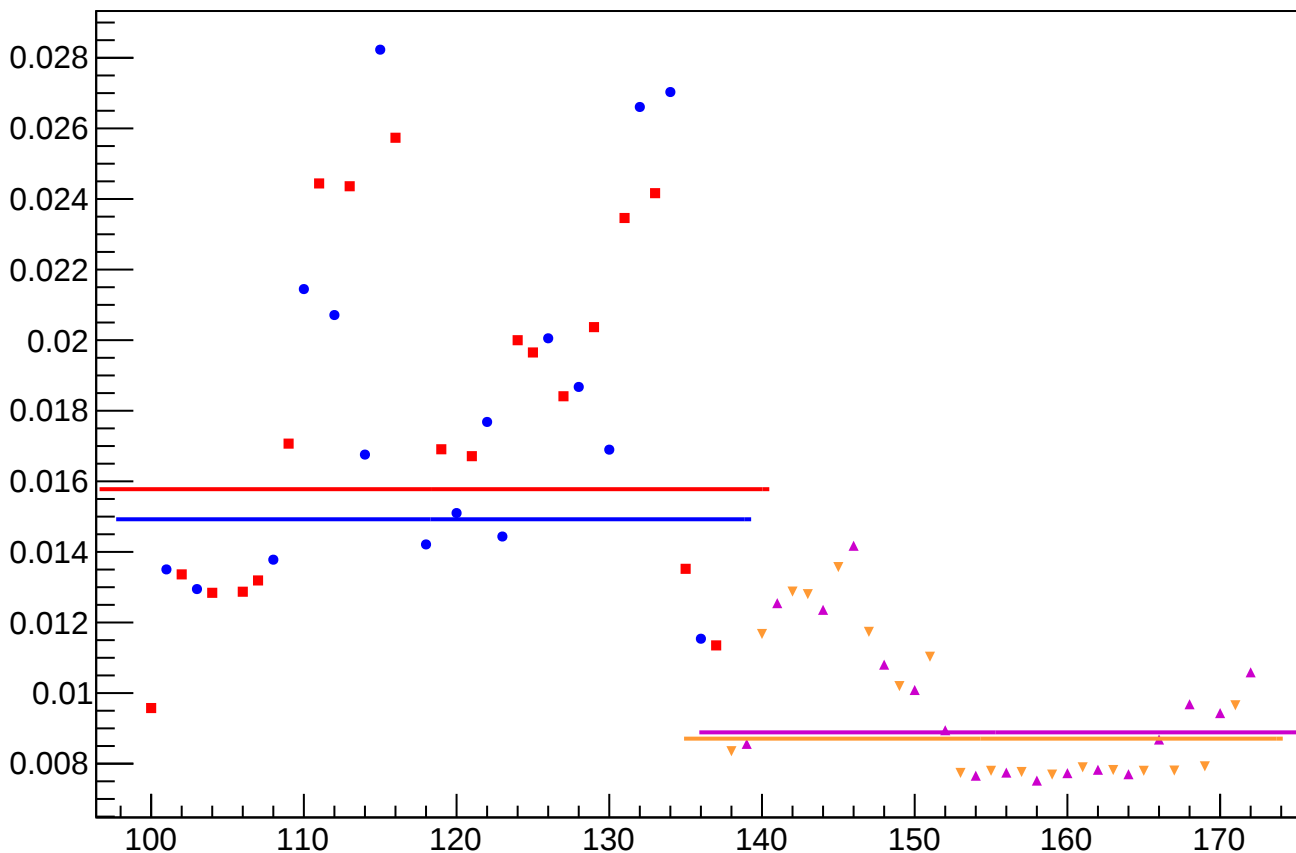
Left In: 1.577 $\pm$ 0.000

χ^2/NDF : 19269972555.4/16

All: 1.617 $\pm$ 0.000

χ^2/NDF : 48661607733.8/71

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 : 857833.6/17

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 780055.3/16

Left: 0.009+/-0.000 χ^2/NDF : 1642909.9/34

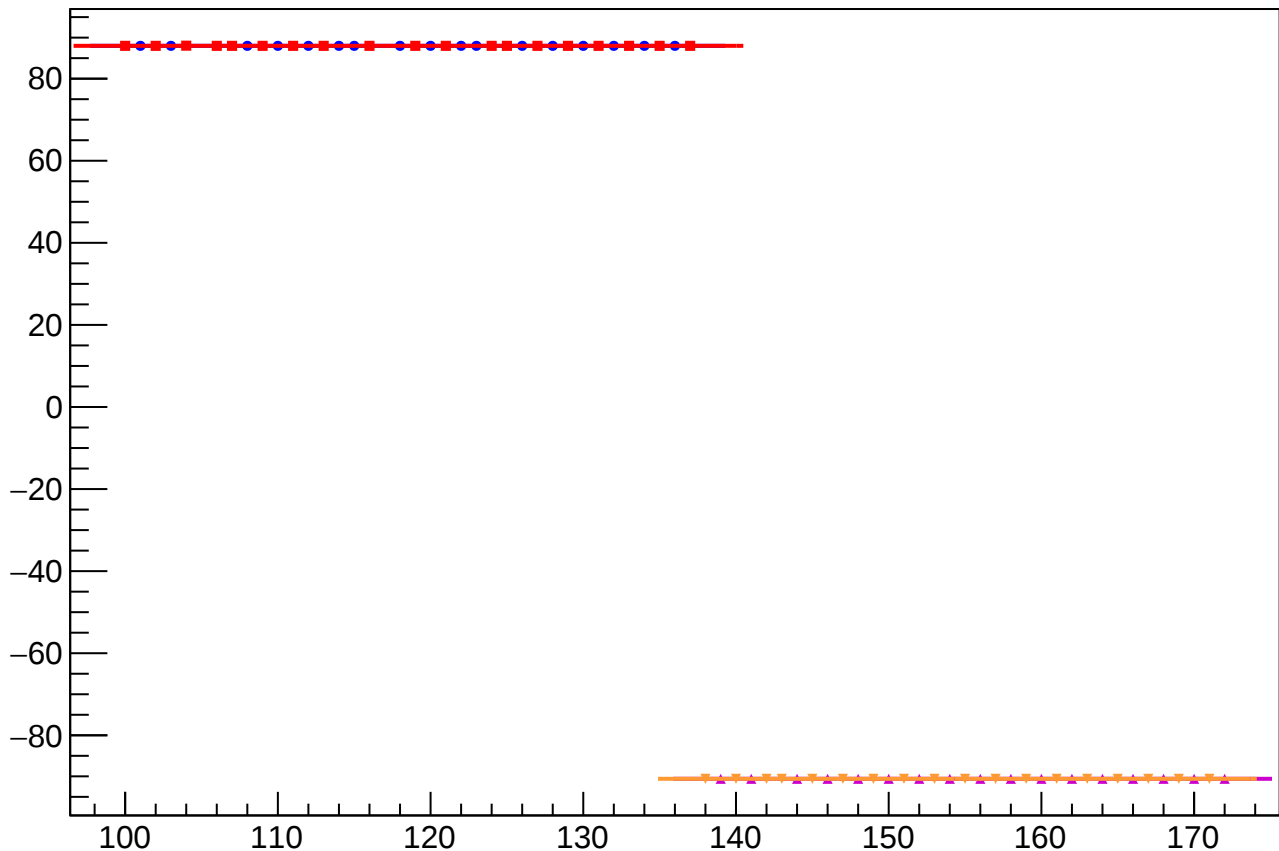
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3034932.8/33

Out: 0.010+/-0.000 χ^2/NDF : 3753541.4/36

All: 0.010+/-0.000 χ^2/NDF : 6791948.4/70

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: 5502891.7/17

Right Out: 88.004+/-0.000 χ^2 /NDF: 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2 /NDF: 5425545.5/16

Left: -90.599+/-0.000 χ^2 /NDF: 10387215.5/34

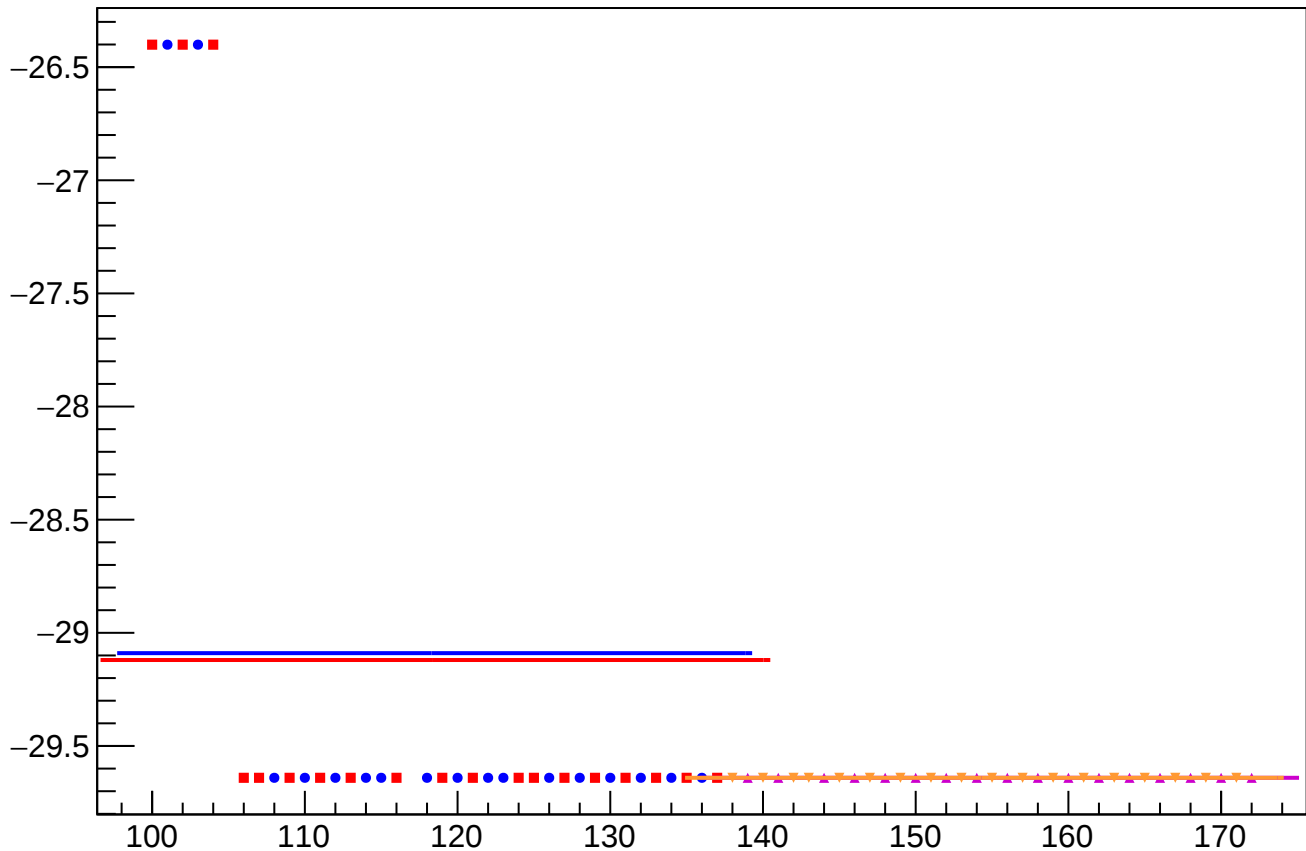
Right: 88.002+/-0.000 χ^2 /NDF: 8043459440319720

In: -30.254+/-0.000 χ^2 /NDF: 14657531921324222

Out: -29.572+/-0.000 χ^2 /NDF: 1516148138391405

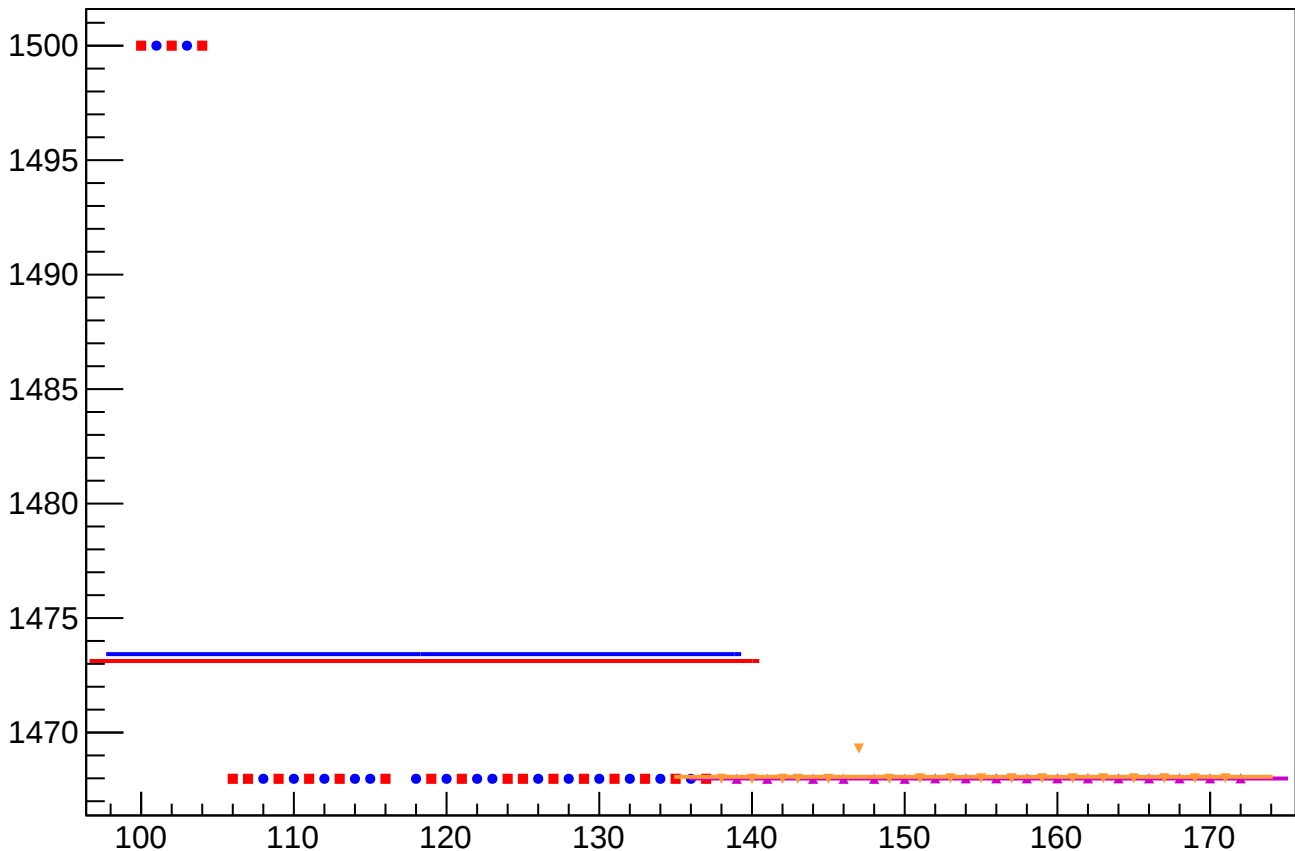
All: -29.908+/-0.000 χ^2 /NDF: 298194987253

epics_HWienAngles_mean vs Slug, Sign Corrected



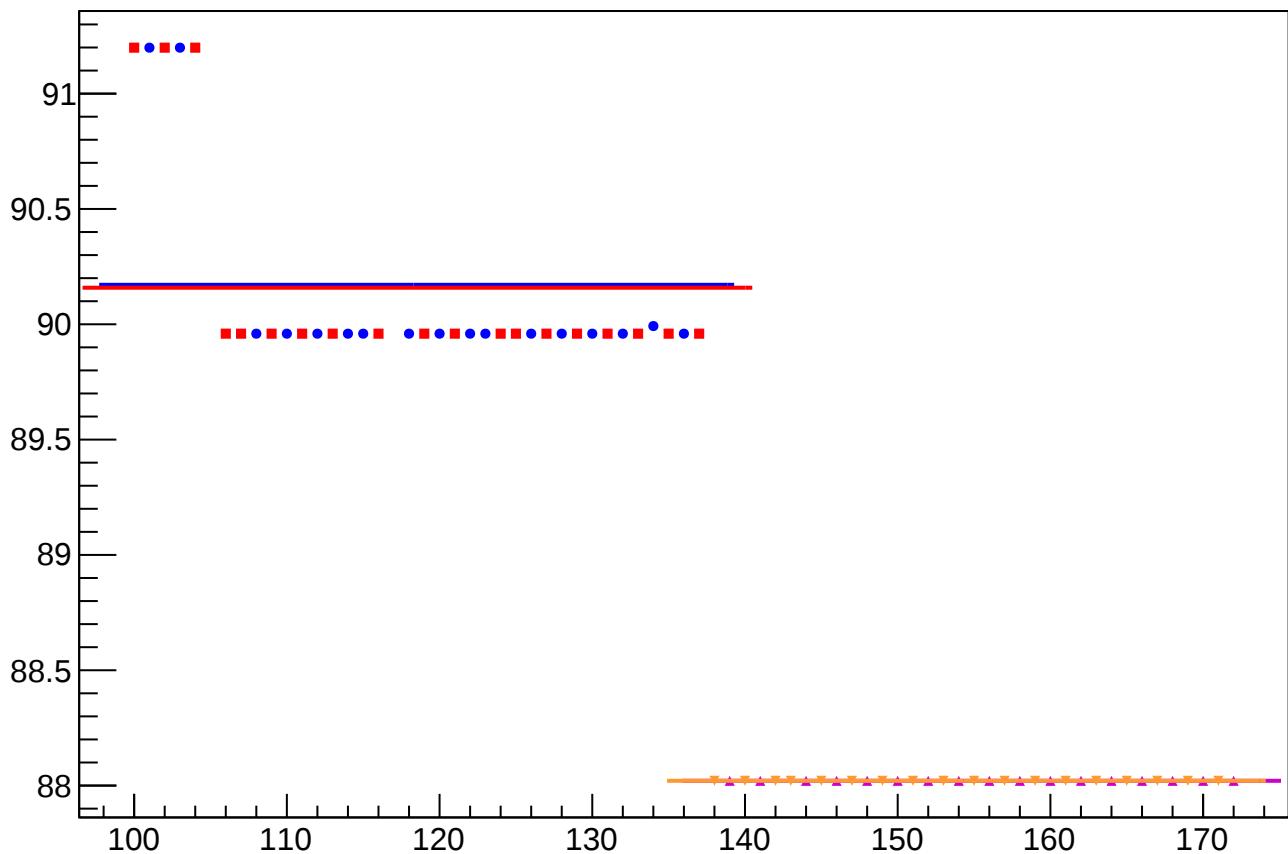
Right In: -29.090+/-0.000 χ^2/NDF : 1028099246109521929793835198578688.0/16
 Left Out: -29.641+/-0.000 χ^2/NDF : 222345.2/17
 Right Out: -29.120+/-0.000 χ^2/NDF : 1022076578393359839206130891882496.0/18
 Left In: -29.641+/-0.000 χ^2/NDF : 283636.5/16
 In: -29.455+/-0.000 χ^2/NDF : 11675539069133273
 Out: -29.463+/-0.000 χ^2/NDF : 1150870816469452
 All: -29.459+/-0.000 χ^2/NDF : 231849585485

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.066+/-0.000 χ^2/NDF : 126252457479657231880678260342784.0/17
 Right Out: 1473.124+/-0.000 χ^2/NDF : 99833021788859785886082809393577984.0/18
 Left In: 1467.992+/-0.000 χ^2/NDF : 126576176442352566252488097792.0/16
 All: 1469.811+/-0.000 χ^2/NDF : 22609979619

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 : 4526673.2/17

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5929810.6/16

Left: 88.021+/-0.000 χ^2/NDF : 10114787.1/34

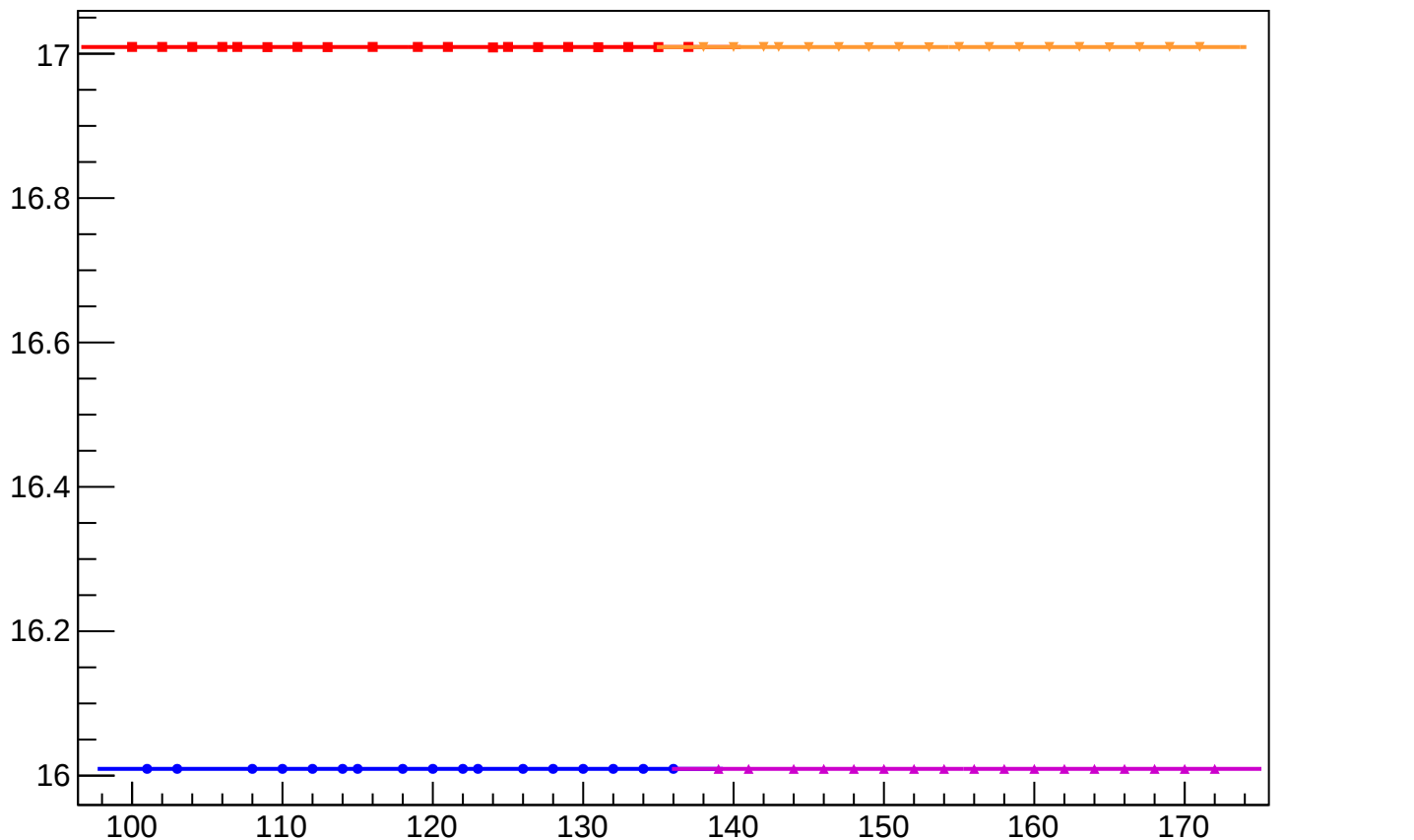
Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

In: 88.747+/-0.000 χ^2/NDF : 227526521186068332

Out: 88.751+/-0.000 χ^2/NDF : 23219378342685033

All: 88.749+/-0.000 χ^2/NDF : 4597218878724

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 44327.7/16

Left Out: 17.009+/-0.000 χ^2/NDF : 20873096962013805181665280.0/17

Right Out: 17.009+/-0.000 χ^2/NDF : 12516014336037541461884928.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 126012866947283106660352.0/16

Left: 16.515+/-0.000 χ^2/NDF : 63624960172008805

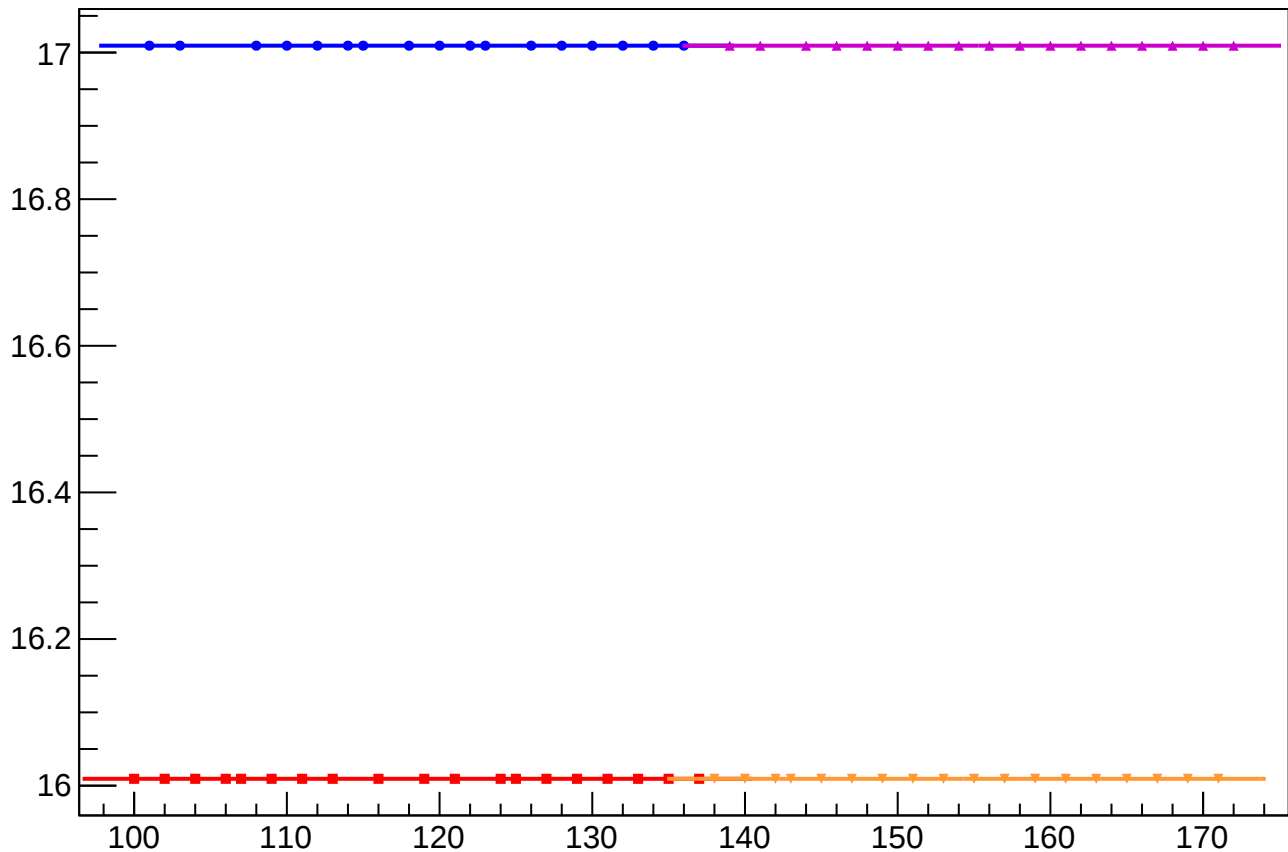
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 128689421922772086

Out: 17.009+/-0.000 χ^2/NDF : 34049410777406603

All: 16.512+/-0.000 χ^2/NDF : 9652465869597

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: 50992.0/17

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39518.8/18

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 113242713141386548346880.0/16

Left: 16.500 $\pm$ 0.000 χ^2 /NDF: 67902589494578837

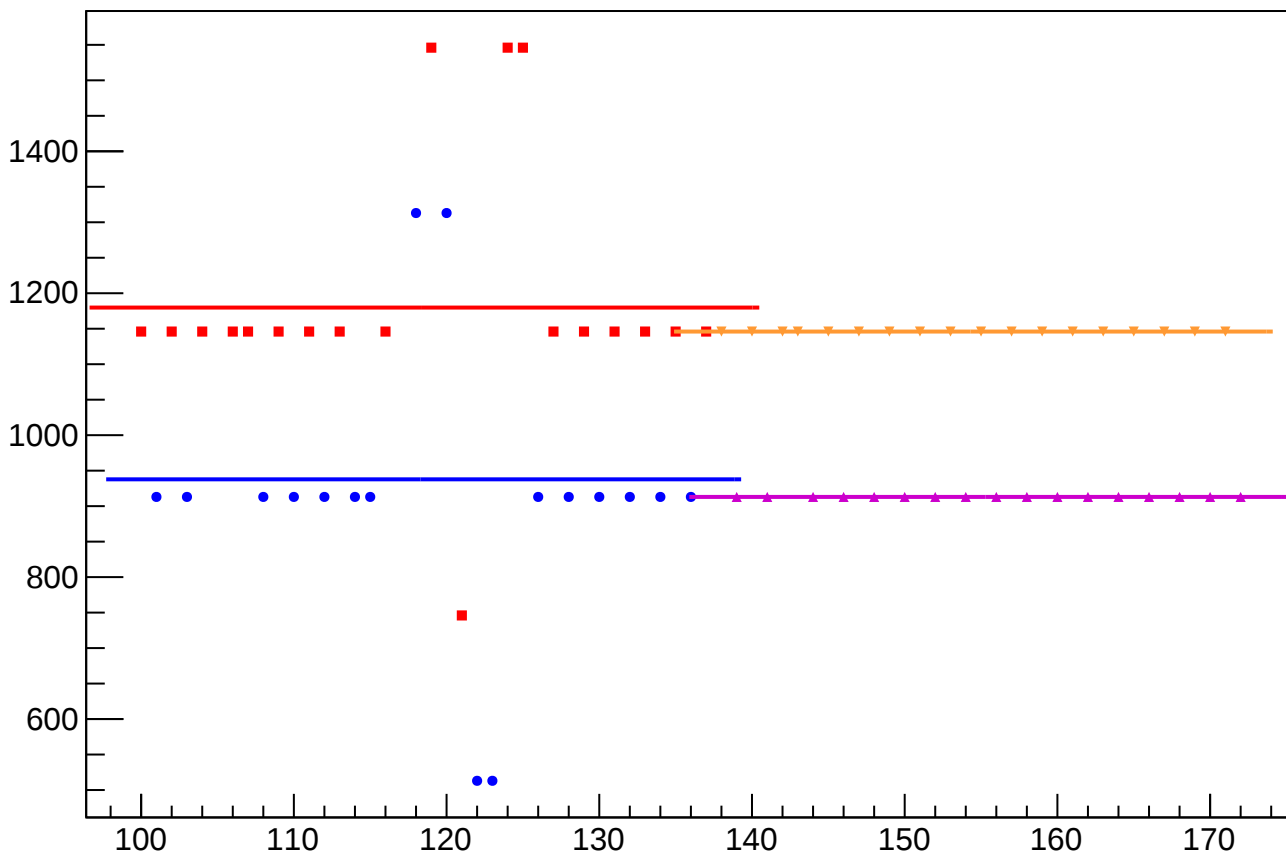
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3437400145243126

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 115670673958785104

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 210569.1/36

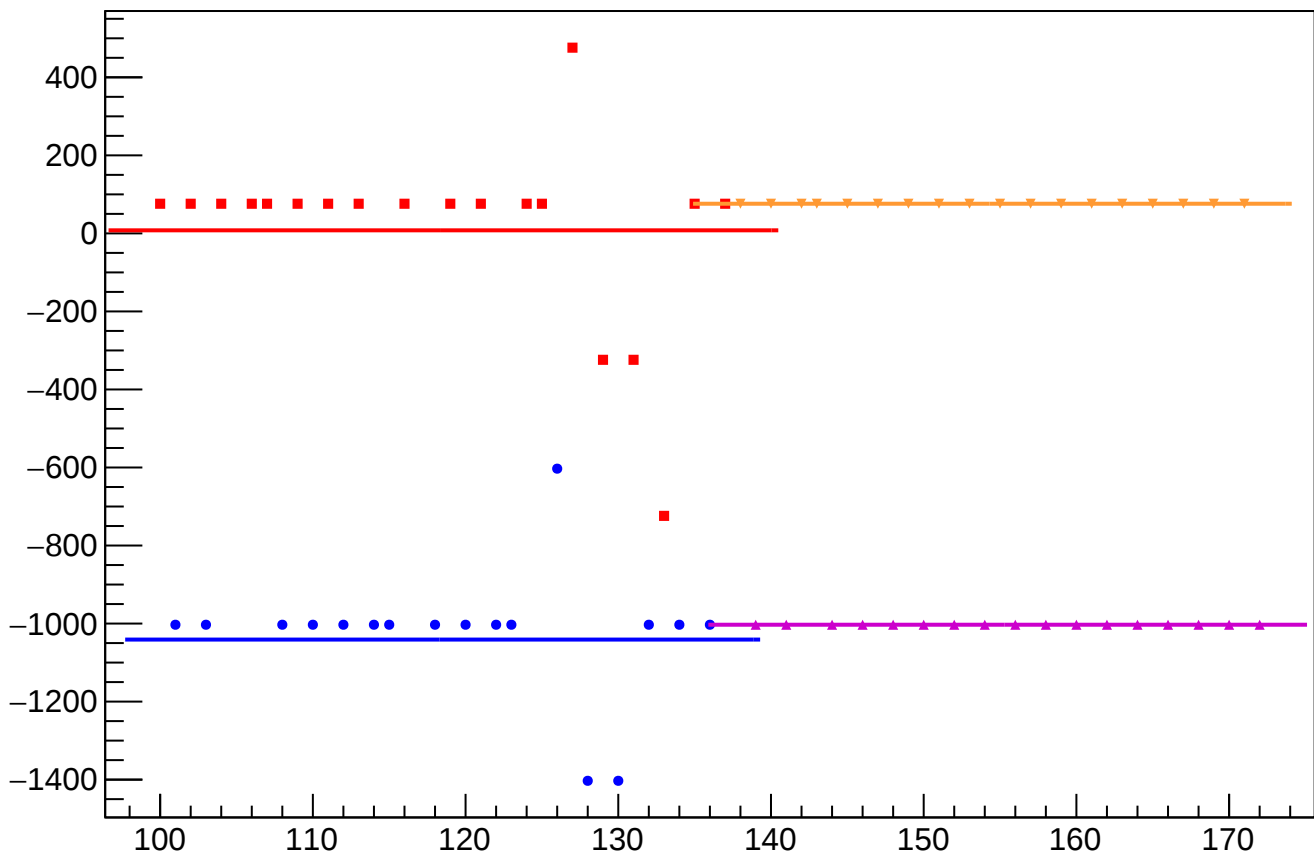
All: 16.497 $\pm$ 0.000 χ^2 /NDF: 1022861477279

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 : 4455133713440933889722810368.0/17
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 18118402996388068783445508096.0/16
 All: 1041.136+/-0.000 χ^2/NDF : 10119915765

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 : 10379508717637800306933760000.0/17
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 2036549959284489034691248128.0/16
 All: -473.993+/-0.000 χ^2/NDF : 12586664905