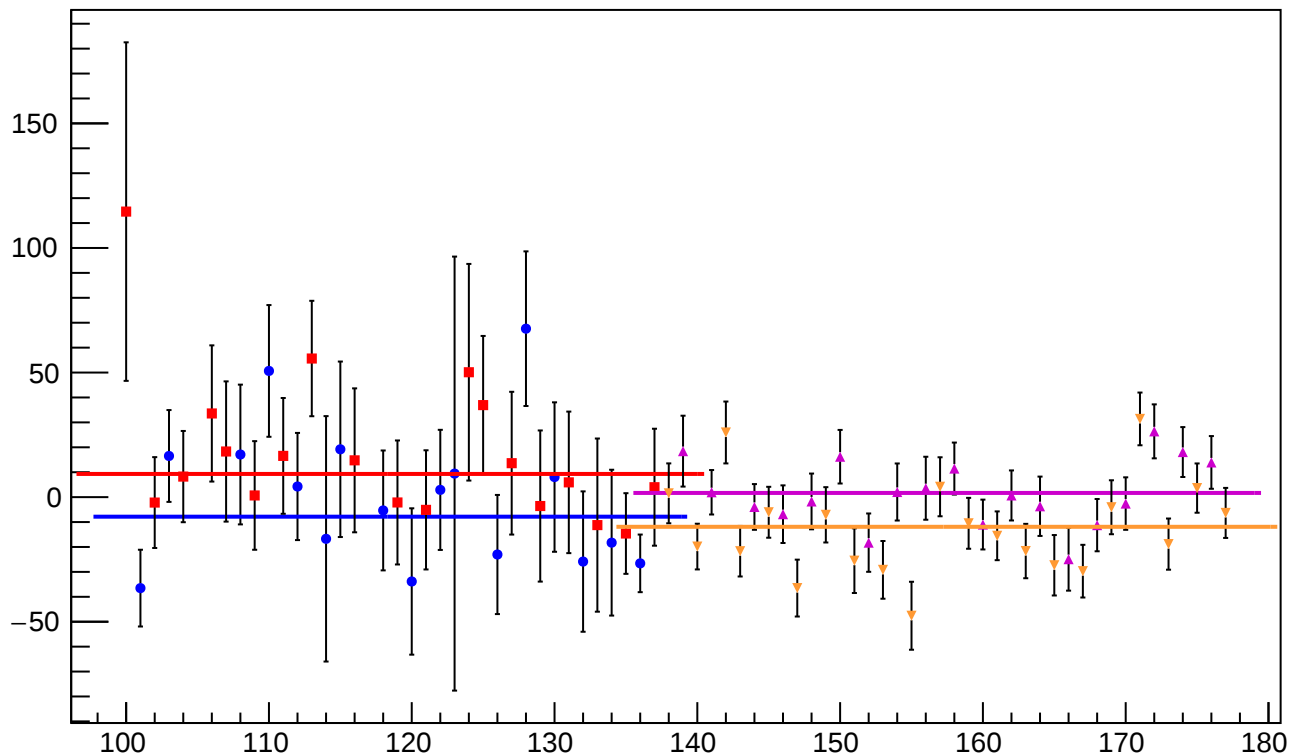


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 $\pm$ 5.608

χ^2/NDF : 22.6/16

Left Out: -11.904 $\pm$ 2.373

χ^2/NDF : 55.3/20

Right Out: 9.309 $\pm$ 5.677

χ^2/NDF : 13.2/18

Left In: 1.686 $\pm$ 2.480

χ^2/NDF : 25.2/18

Left: -5.407 $\pm$ 1.714

χ^2/NDF : 96.2/39

Right: 0.629 $\pm$ 3.990

χ^2/NDF : 40.5/35

In: 0.128 $\pm$ 2.268

χ^2/NDF : 50.2/35

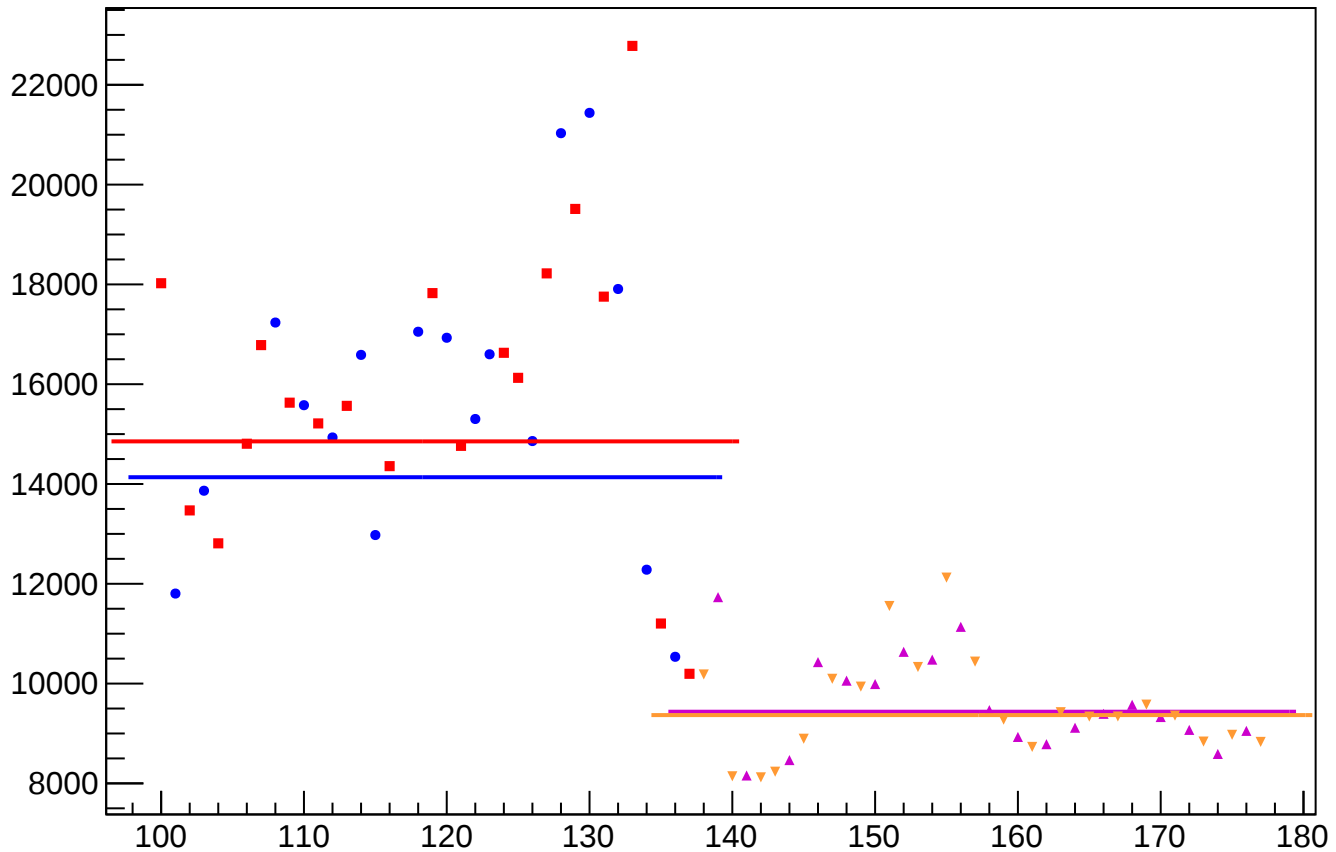
Out: -8.749 $\pm$ 2.190

χ^2/NDF : 80.4/39

All: -4.466 $\pm$ 1.575

χ^2/NDF : 138.6/75

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9368.525 $\pm$ 1.678 χ^2 /NDF:300249.1/20

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

Left In: 9436.068 $\pm$ 1.753 χ^2 /NDF:250415.2/18

Left: 9400.817 $\pm$ 1.212 χ^2 /NDF: 551438.7/39

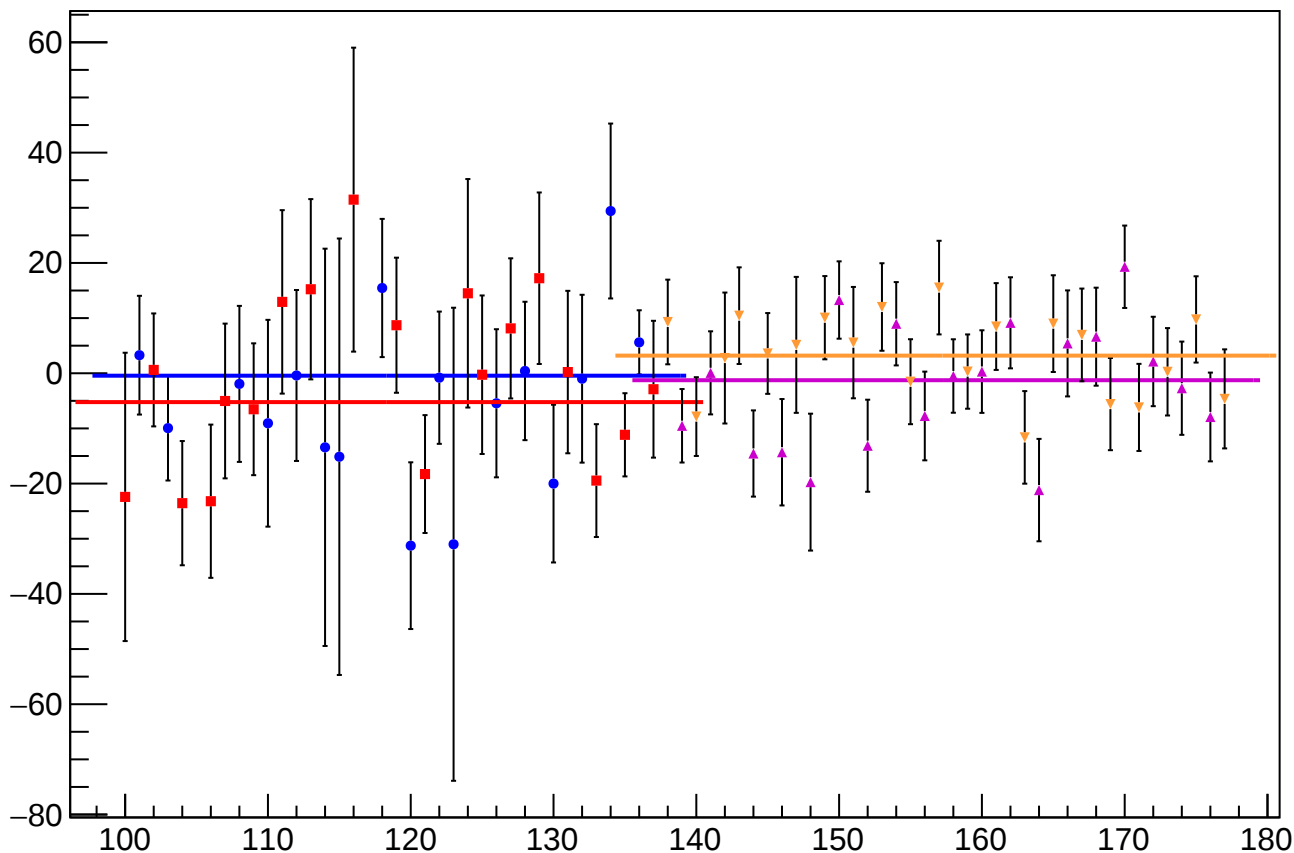
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

In: 10204.532 $\pm$ 1.604 χ^2 /NDF:2022412.3/35

Out: 10184.516 $\pm$ 1.548 χ^2 /NDF:2361724.0/39

All: 10194.173 $\pm$ 1.114 χ^2 /NDF: 4384216.9/79

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 3.198 ± 1.794 χ^2/NDF : 16.9/20

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

Left In: -1.261 ± 1.844 χ^2/NDF : 33.3/18

Left: 1.029 ± 1.286 χ^2/NDF : 53.2/39

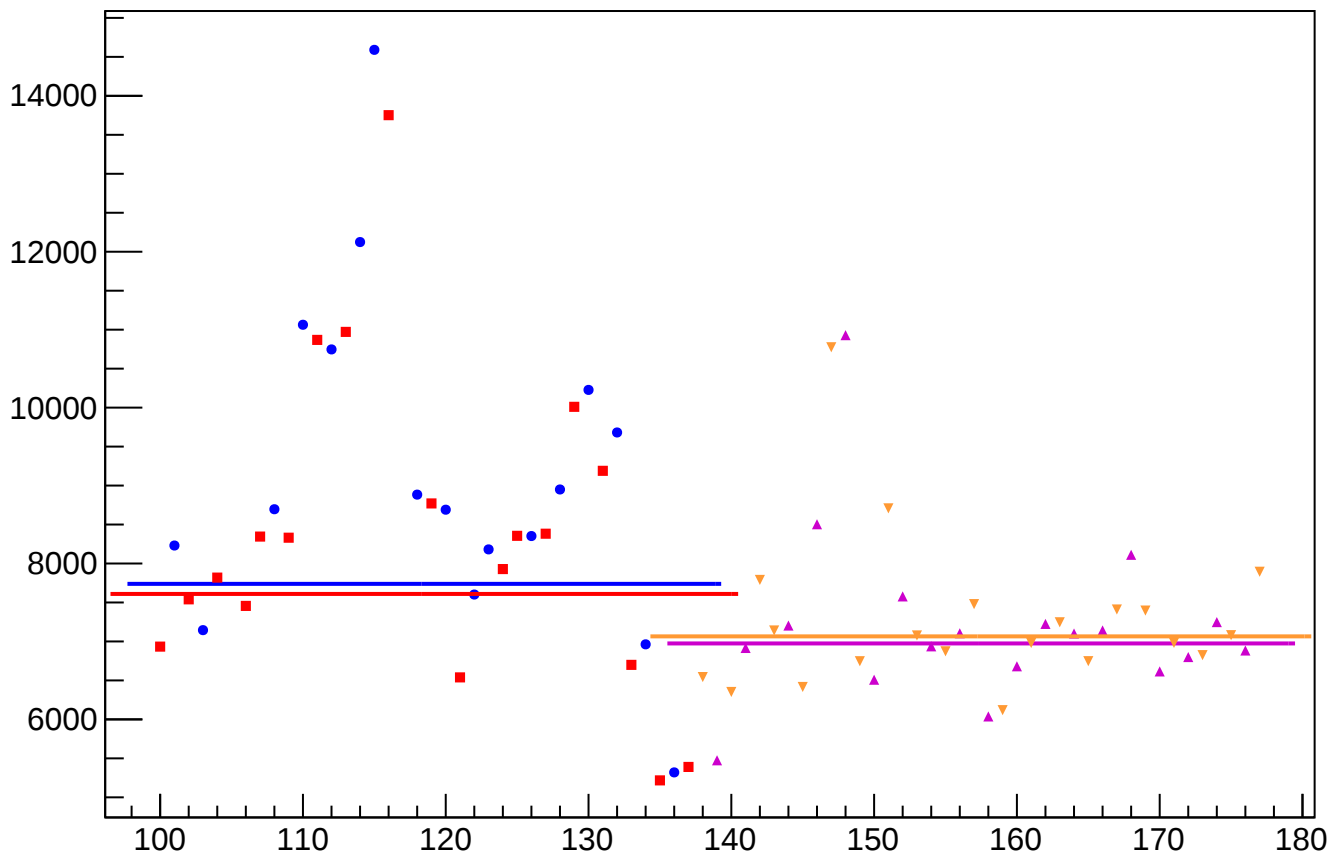
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -1.044 ± 1.581 χ^2/NDF : 47.9/35

Out: 0.906 ± 1.531 χ^2/NDF : 42.2/39

All: -0.038 ± 1.100 χ^2/NDF : 90.9/75

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7065.130+/-1.269 χ^2/NDF : 365129.7/20

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

Left In: 6974.420+/-1.304 χ^2/NDF : 462544.4/18

Left: 7021.000+/-0.909 χ^2/NDF : 830160.4/39

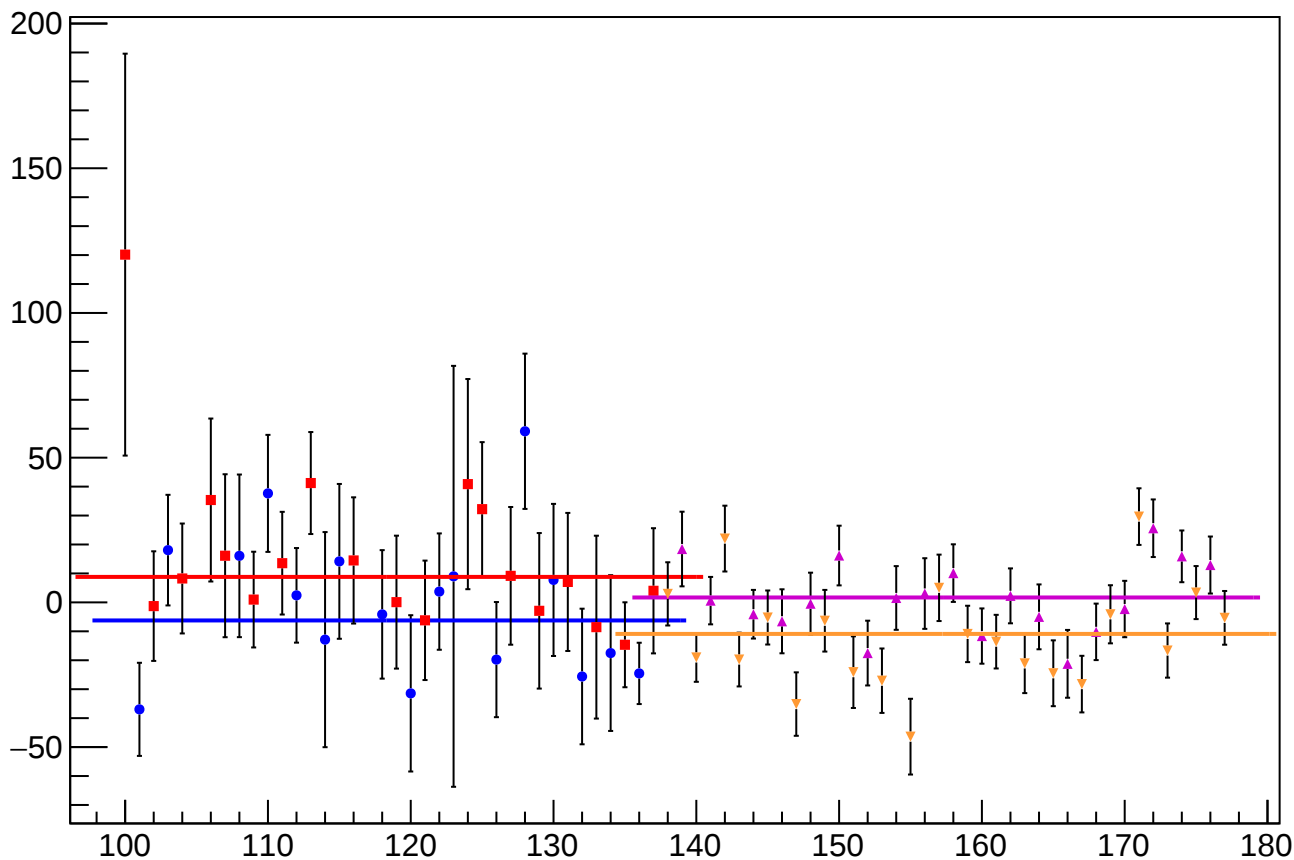
Right: 7671.298+/-1.501 χ^2/NDF : 1421871.4/35

In: 7176.930+/-1.118 χ^2/NDF : 1294481.1/35

Out: 7213.198+/-1.083 χ^2/NDF : 1094377.1/39

All: 7195.642+/-0.778 χ^2/NDF : 2389401.5/75

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -10.899 ± 2.216 $\chi^2/\text{NDF}: 56.2/20$

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

Left In: 1.692 ± 2.321 $\chi^2/\text{NDF}: 25.8/18$

Left: -4.892 ± 1.603 $\chi^2/\text{NDF}: 97.4/39$

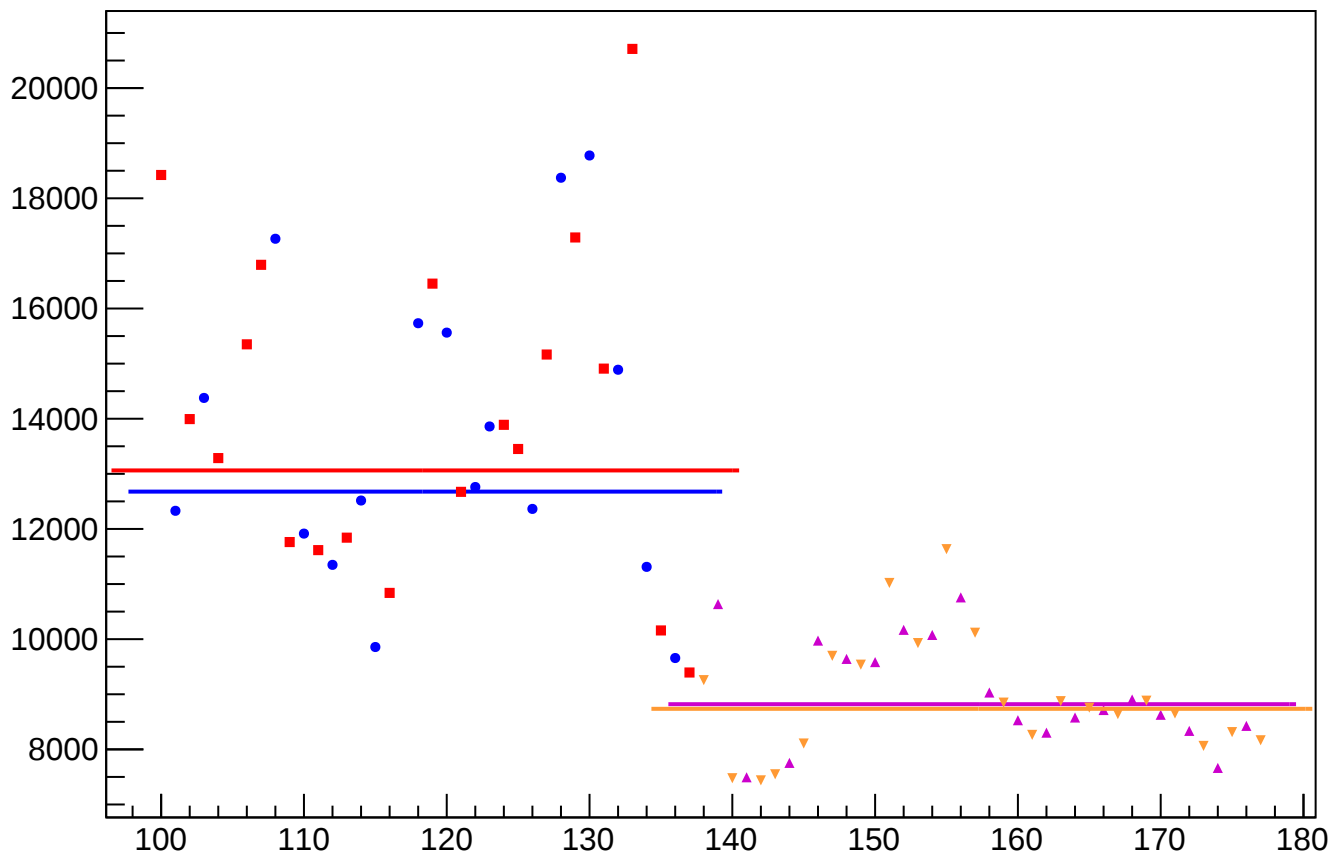
Right: 1.306 ± 3.541 $\chi^2/\text{NDF}: 40.9/35$

In: 0.294 ± 2.106 $\chi^2/\text{NDF}: 51.1/35$

Out: -7.663 ± 2.026 $\chi^2/\text{NDF}: 82.4/39$

All: -3.838 ± 1.460 $\chi^2/\text{NDF}: 140.8/75$

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8735.967 $\pm$ 1.567 χ^2 /NDF: 390594.2/20

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

Left In: 8819.886 $\pm$ 1.641 χ^2 /NDF: 326448.1/18

Left: 8776.000 $\pm$ 1.133 χ^2 /NDF: 718410.1/39

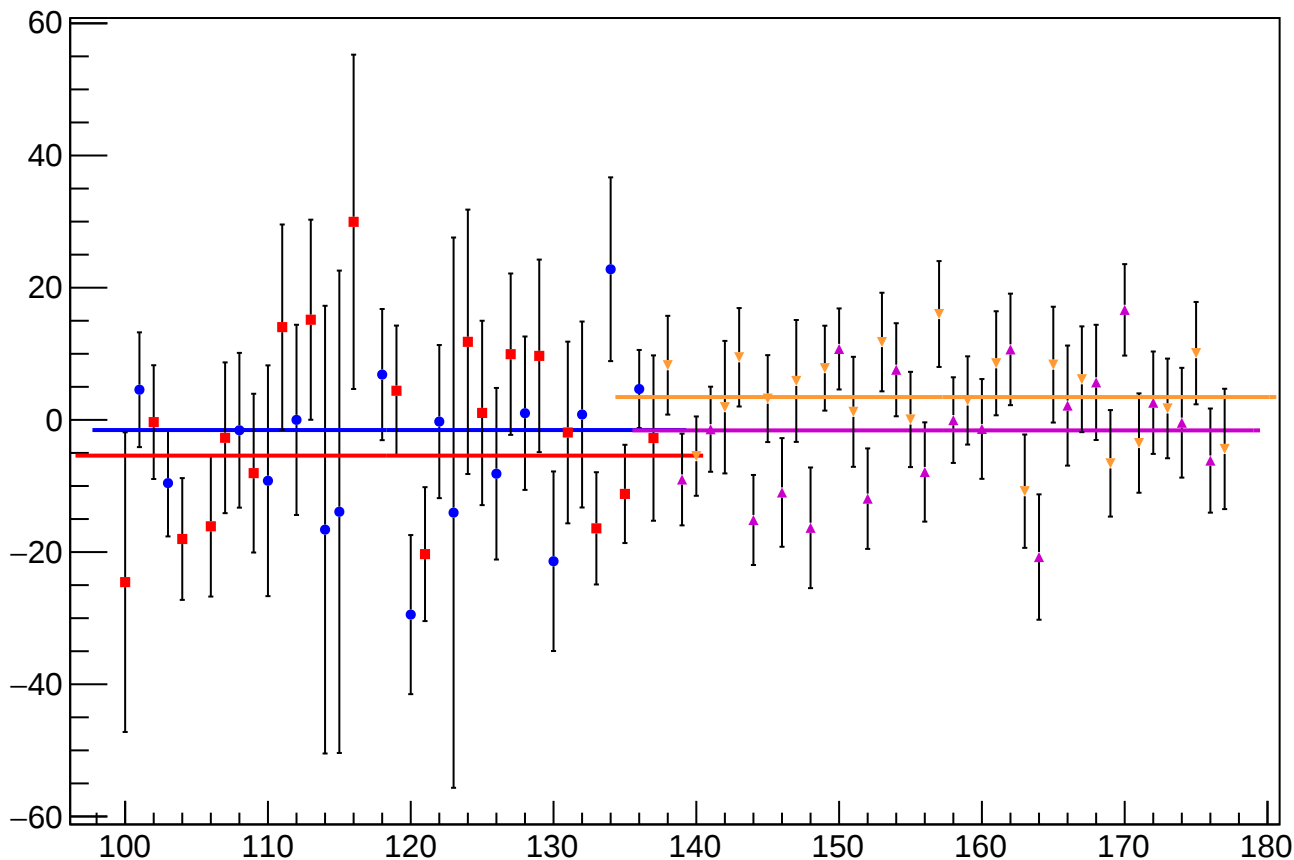
Right: 12870.370 $\pm$ 2.504 χ^2 /NDF: 1056923.6/35

In: 9499.696 $\pm$ 1.489 χ^2 /NDF: 1853991.5/35

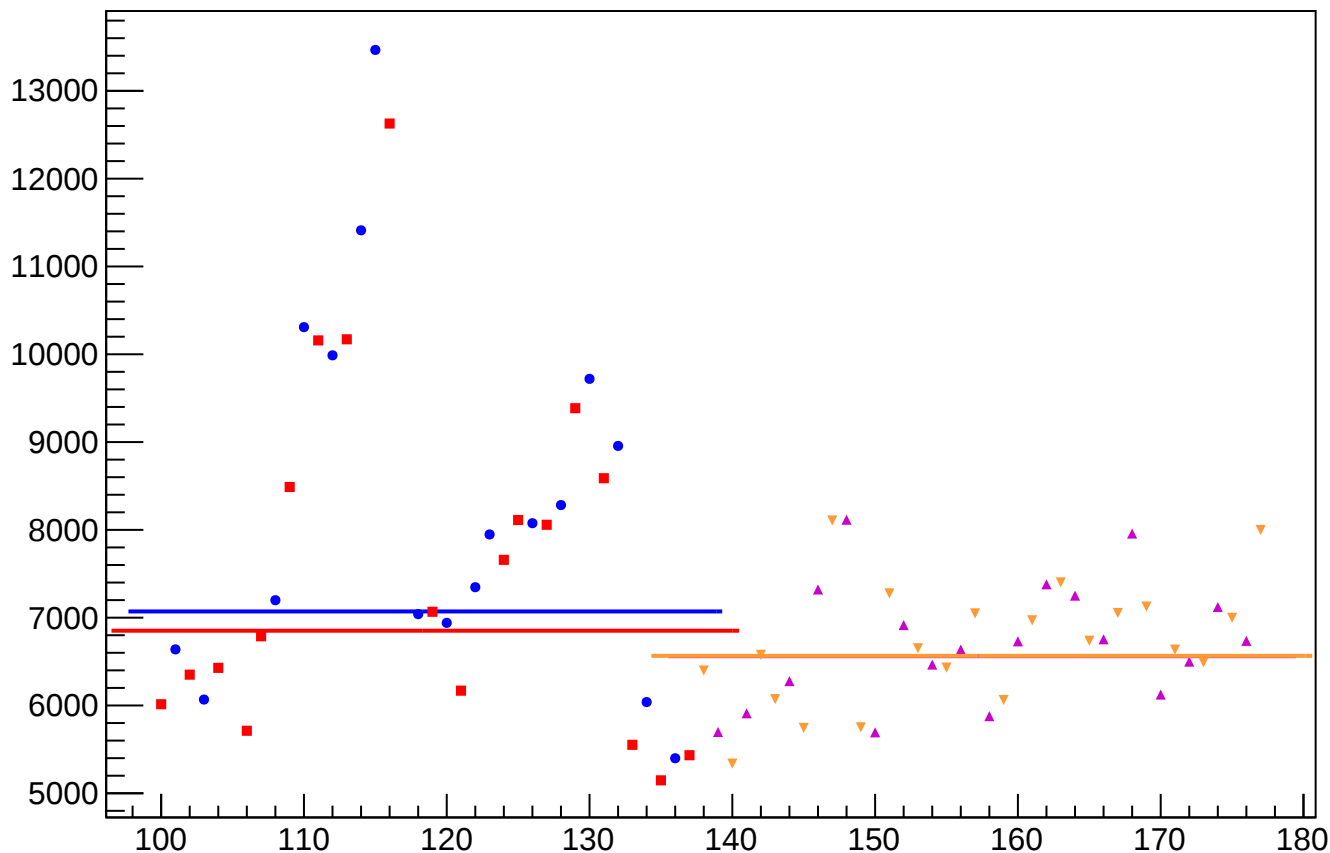
Out: 9446.581 $\pm$ 1.433 χ^2 /NDF: 2139510.3/39

All: 9472.110 $\pm$ 1.033 χ^2 /NDF: 3994162.3/75

diff_bpm4eY_mean vs Slug, Sign Corrected



diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6565.233+/-1.178 χ^2/NDF : 345302.0/20

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

Left In: 6561.431+/-1.222 χ^2/NDF : 298005.7/18

Left: 6563.401+/-0.848 χ^2/NDF : 643312.7/39

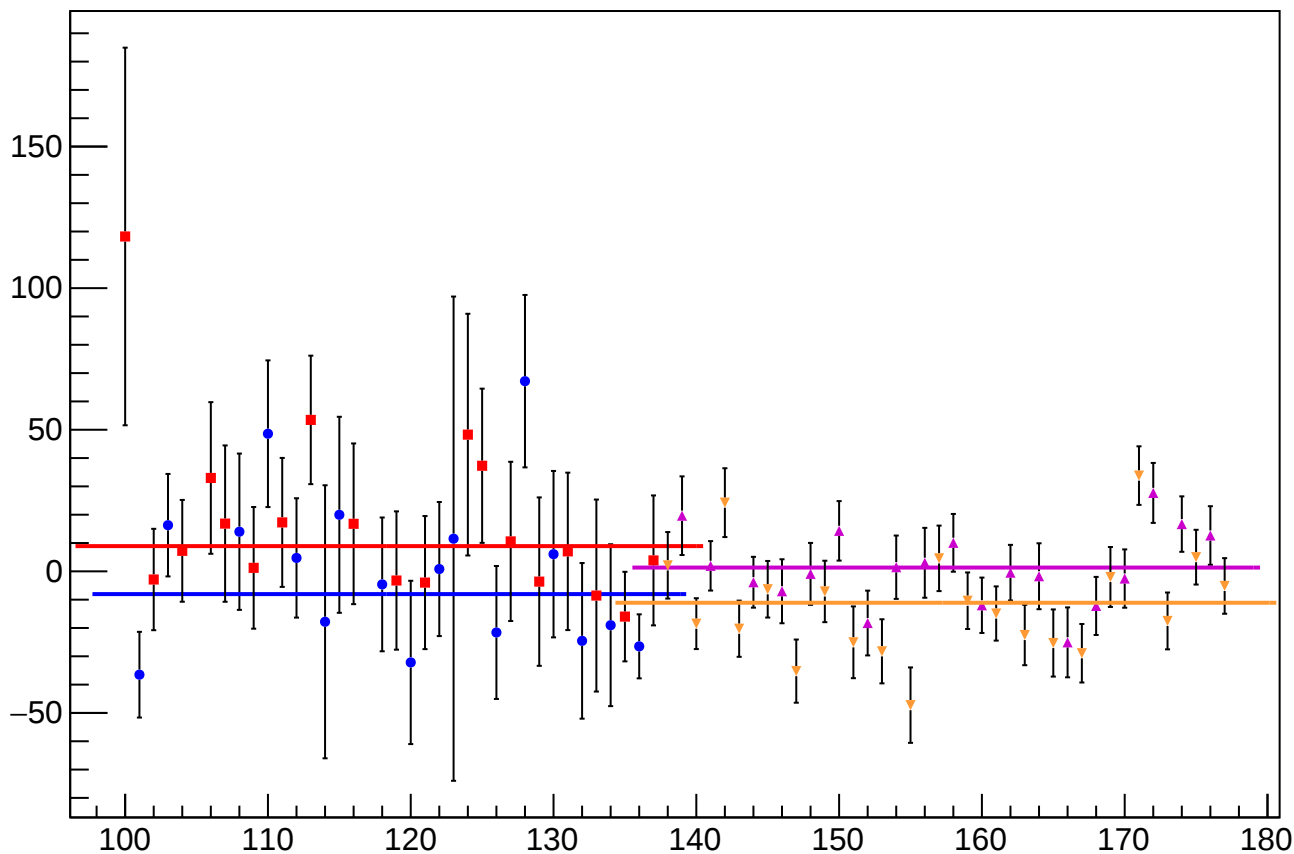
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

In: 6702.646+/-1.039 χ^2/NDF : 946977.5/35

Out: 6646.812+/-0.996 χ^2/NDF : 1046534.8/39

All: 6673.565+/-0.719 χ^2/NDF : 1995017.4/75

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -11.094±/-2.320 χ^2/NDF :57.9/20

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

Left In: 1.334±/-2.424 χ^2/NDF :26.2/18

Left: -5.152±/-1.676 χ^2/NDF : 97.8/39

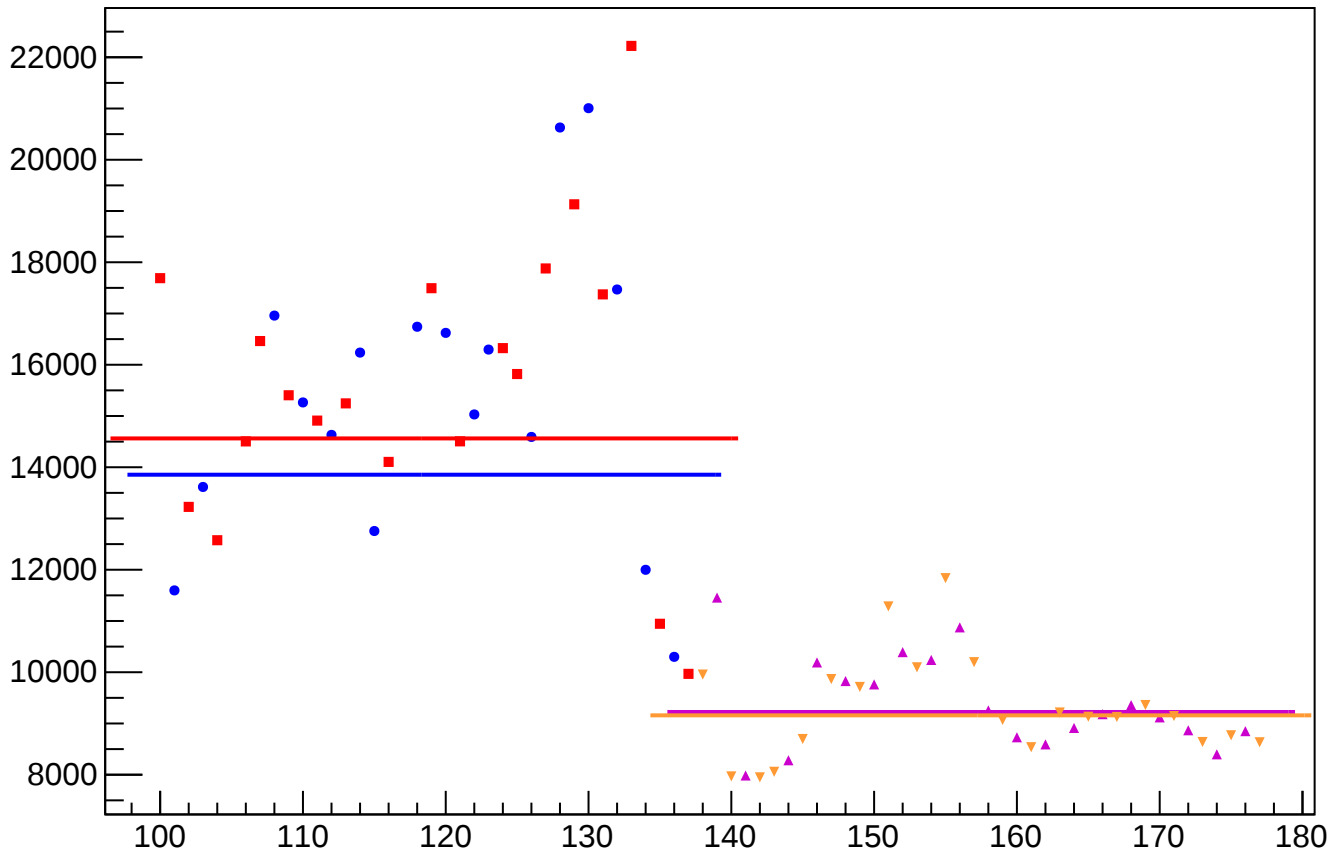
Right: 0.330±/-3.911 χ^2/NDF : 41.0/35

In: -0.191±/-2.218 χ^2/NDF :51.2/35

Out: -8.134±/-2.141 χ^2/NDF :82.6/39

All: -4.302±/-1.540 χ^2/NDF : 140.4/75

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9158.643 $\pm$ 1.640 χ^2 /NDF:297137.7/20

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

Left In: 9224.225 $\pm$ 1.714 χ^2 /NDF:247672.8/18

Left: 9189.999 $\pm$ 1.185 χ^2 /NDF: 545574.7/39

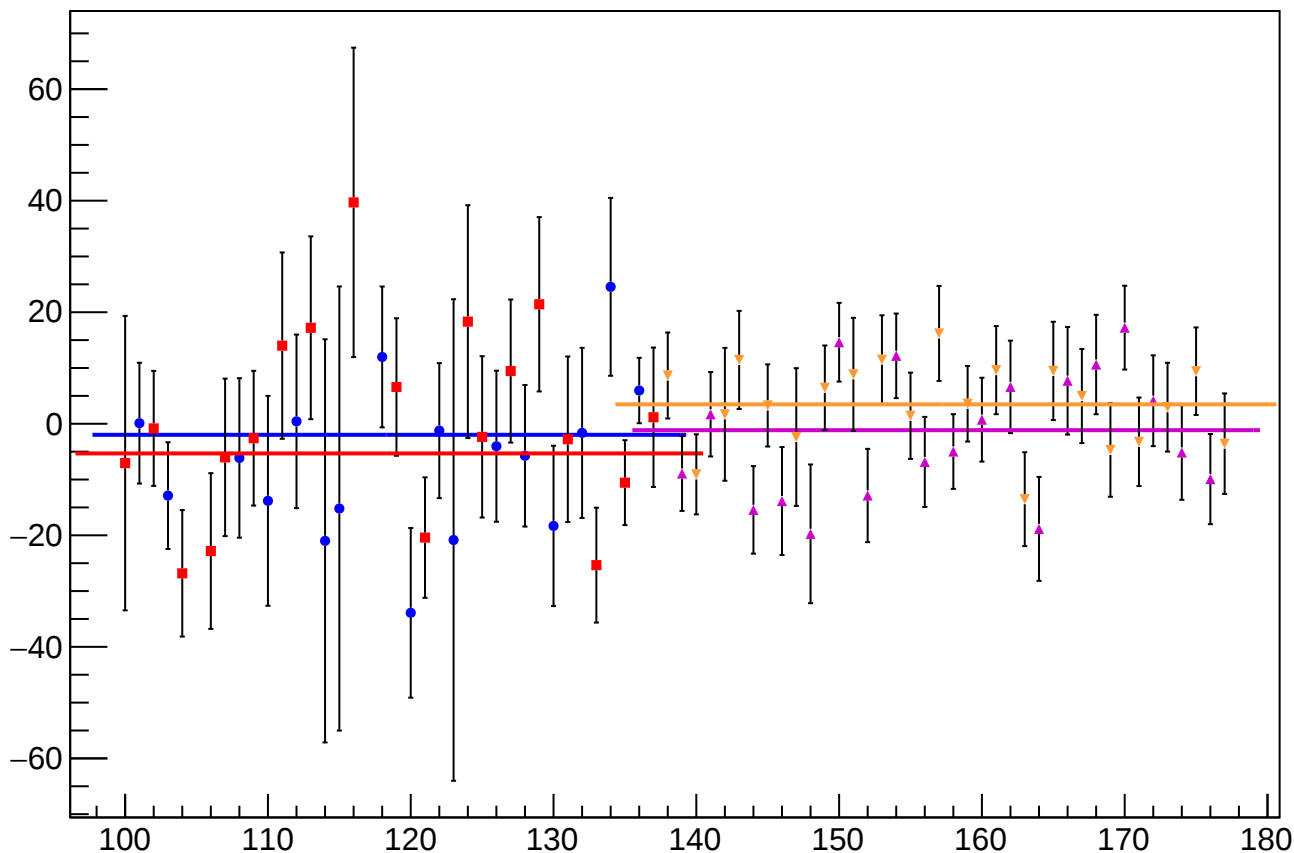
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 9977.742 $\pm$ 1.568 χ^2 /NDF:2036394.9/35

Out: 9958.372 $\pm$ 1.514 χ^2 /NDF:2377378.7/39

All: 9967.718 $\pm$ 1.089 χ^2 /NDF: 4413852.5/75

diff_bpm4acY_mean vs Slug, Sign Corrected



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

Left Out: 3.483 ± 1.802 χ^2/NDF : 16.4/20

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

Left In: -1.150 ± 1.852 χ^2/NDF : 34.6/18

Left: 1.230 ± 1.292 χ^2/NDF : 54.1/39

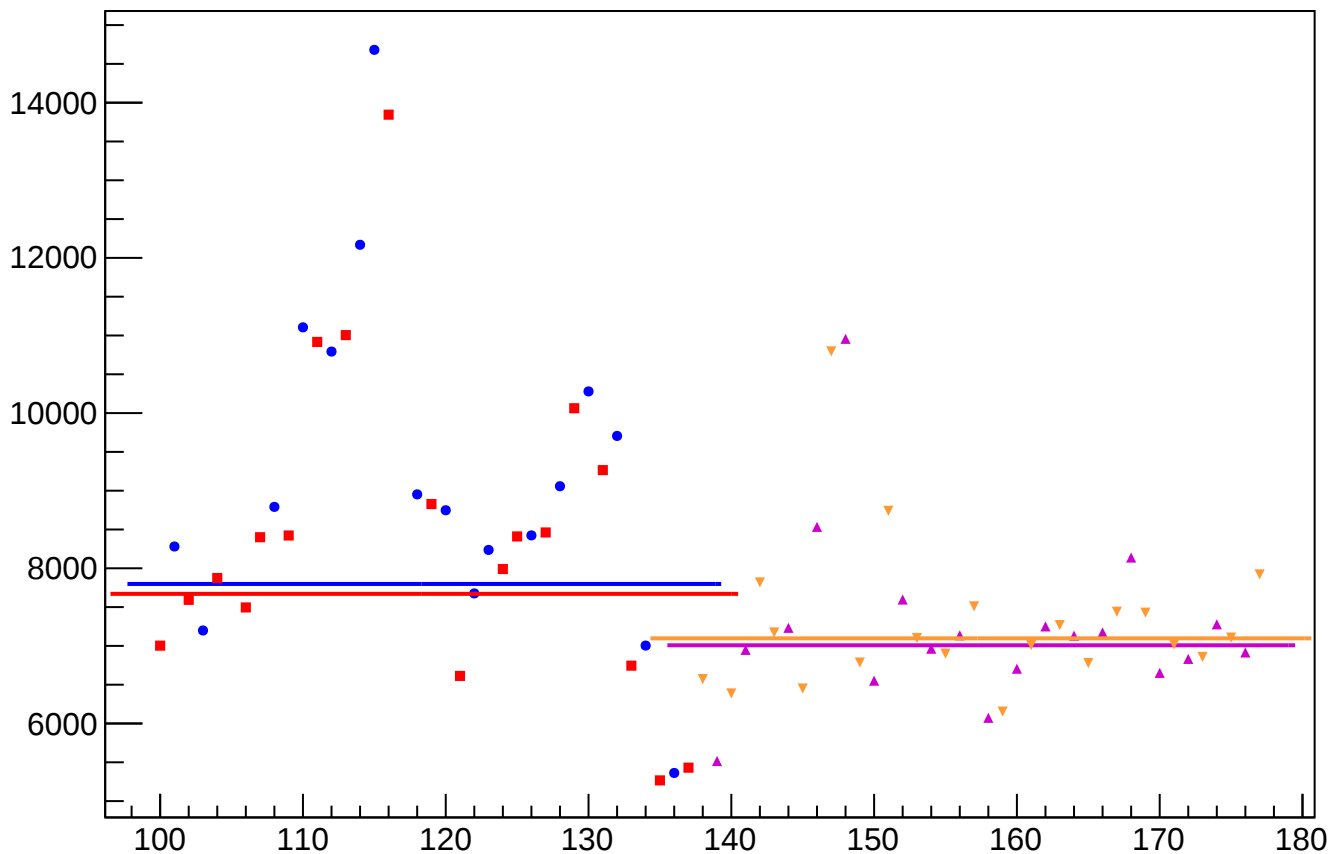
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -1.369 ± 1.589 χ^2/NDF : 48.7/35

Out: 1.101 ± 1.539 χ^2/NDF : 47.1/39

All: -0.094 ± 1.106 χ^2/NDF : 97.0/75

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7798.267 $\pm$ 2.188 χ^2/NDF : 736283.6/16

Left Out: 7097.304 $\pm$ 1.274 χ^2/NDF : 360880.5/20

Right Out: 7670.584 $\pm$ 2.092 χ^2/NDF : 672691.0/18

Left In: 7007.912 $\pm$ 1.310 χ^2/NDF : 455468.7/18

Left: 7053.824 $\pm$ 0.913 χ^2/NDF : 818742.2/39

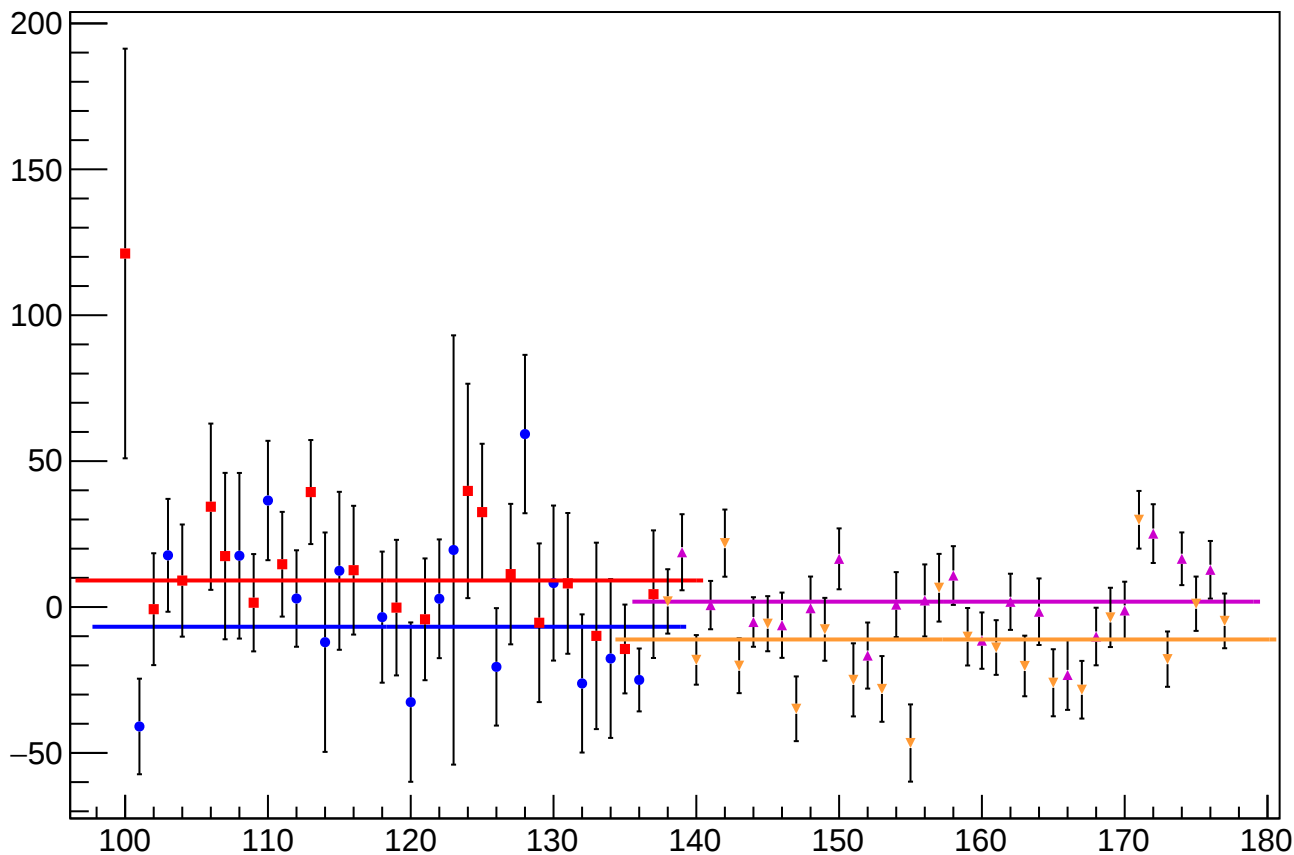
Right: 7731.569 $\pm$ 1.512 χ^2/NDF : 1410753.9/35

In: 7216.410 $\pm$ 1.124 χ^2/NDF : 1287833.9/35

Out: 7252.477 $\pm$ 1.088 χ^2/NDF : 1088341.3/39

All: 7235.019 $\pm$ 0.782 χ^2/NDF : 2376706.8/75

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

Left Out: -11.117 ± 2.241 $\chi^2/\text{NDF}: 55.3/20$

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

Left In: 1.834 ± 2.348 $\chi^2/\text{NDF}: 25.6/18$

Left: -4.941 ± 1.621 $\chi^2/\text{NDF}: 96.8/39$

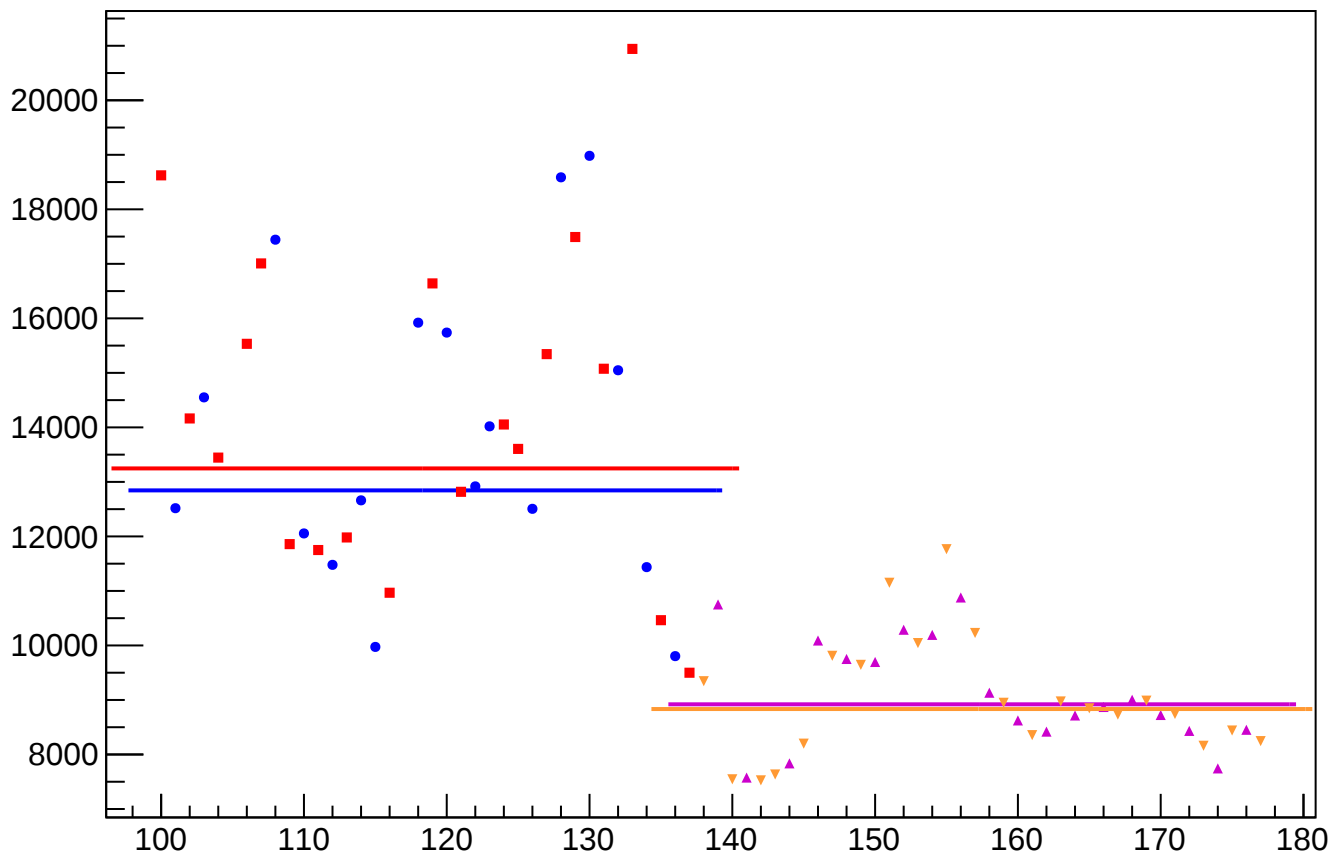
Right: 1.193 ± 3.590 $\chi^2/\text{NDF}: 40.8/35$

In: 0.324 ± 2.131 $\chi^2/\text{NDF}: 51.6/35$

Out: -7.812 ± 2.050 $\chi^2/\text{NDF}: 80.8/39$

All: -3.902 ± 1.477 $\chi^2/\text{NDF}: 140.0/75$

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8833.672+/-1.585 χ^2/NDF : 391475.0/20

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

Left In: 8920.222+/-1.660 χ^2/NDF : 328049.1/18

Left: 8874.944+/-1.146 χ^2/NDF : 720946.2/39

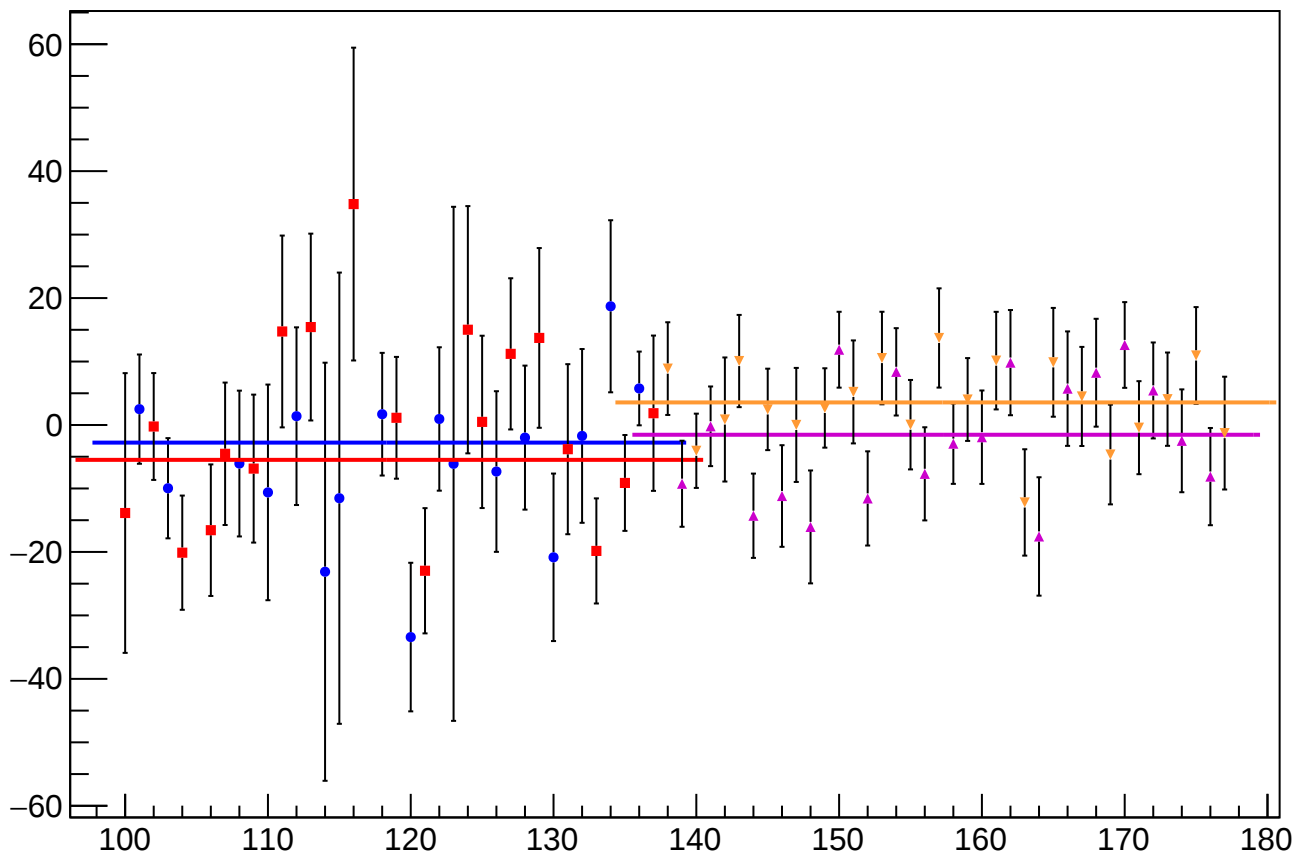
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

In: 9609.720+/-1.507 χ^2/NDF : 1857204.8/35

Out: 9555.095+/-1.450 χ^2/NDF : 2144622.3/39

All: 9581.345+/-1.045 χ^2/NDF : 4002509.6/75

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

Left Out: 3.557 ± 1.627 $\chi^2/\text{NDF}: 13.7/20$

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

Left In: -1.537 ± 1.688 $\chi^2/\text{NDF}: 31.6/18$

Left: 1.104 ± 1.171 $\chi^2/\text{NDF}: 50.0/39$

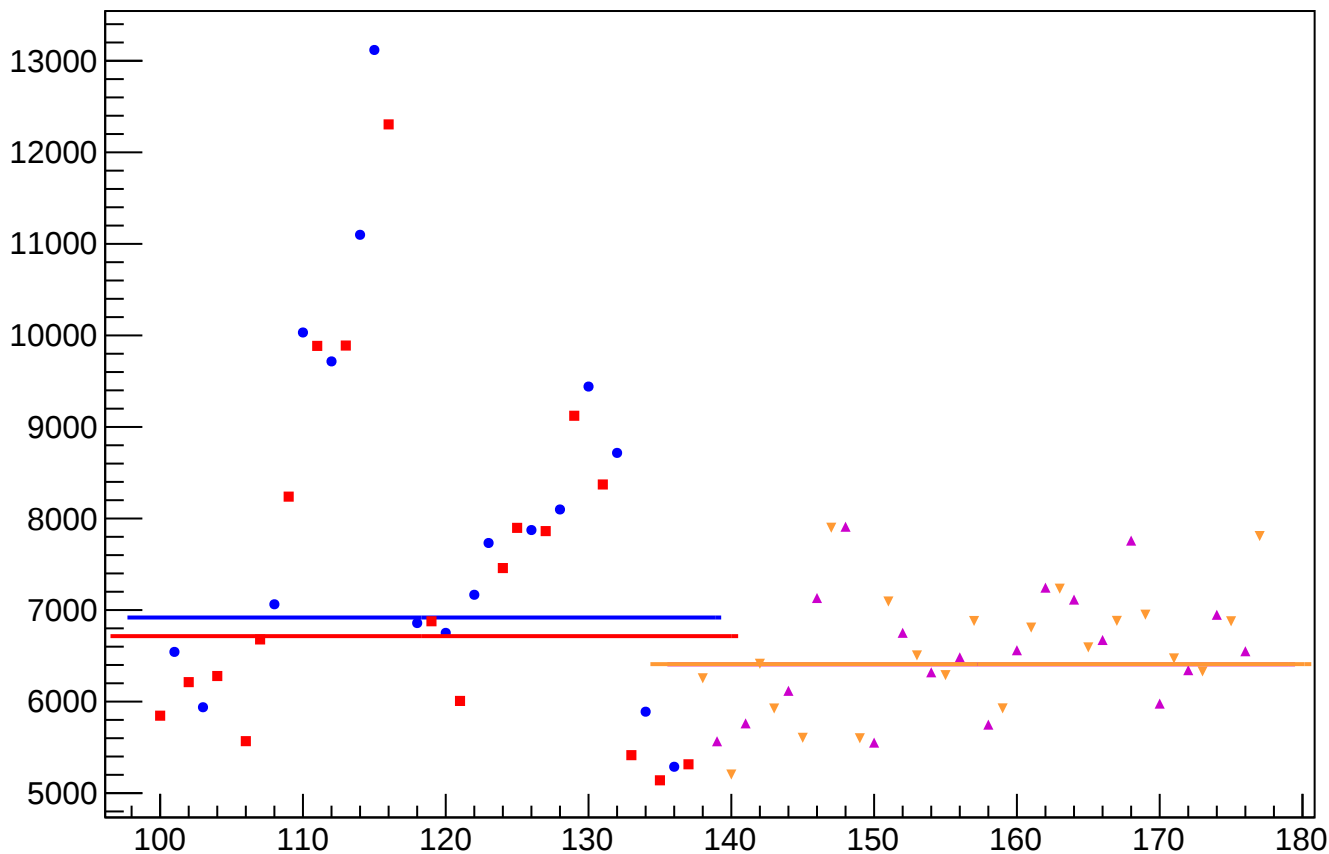
Right: -4.206 ± 1.879 $\chi^2/\text{NDF}: 39.6/35$

In: -1.879 ± 1.436 $\chi^2/\text{NDF}: 47.7/35$

Out: 0.994 ± 1.377 $\chi^2/\text{NDF}: 45.6/39$

All: -0.382 ± 0.994 $\chi^2/\text{NDF}: 95.4/75$

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6409.183 ± 1.150 $\chi^2/\text{NDF}: 348087.4/20$

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

Left In: 6406.833 ± 1.193 $\chi^2/\text{NDF}: 299507.8/18$

Left: 6408.051 ± 0.828 $\chi^2/\text{NDF}: 647597.3/39$

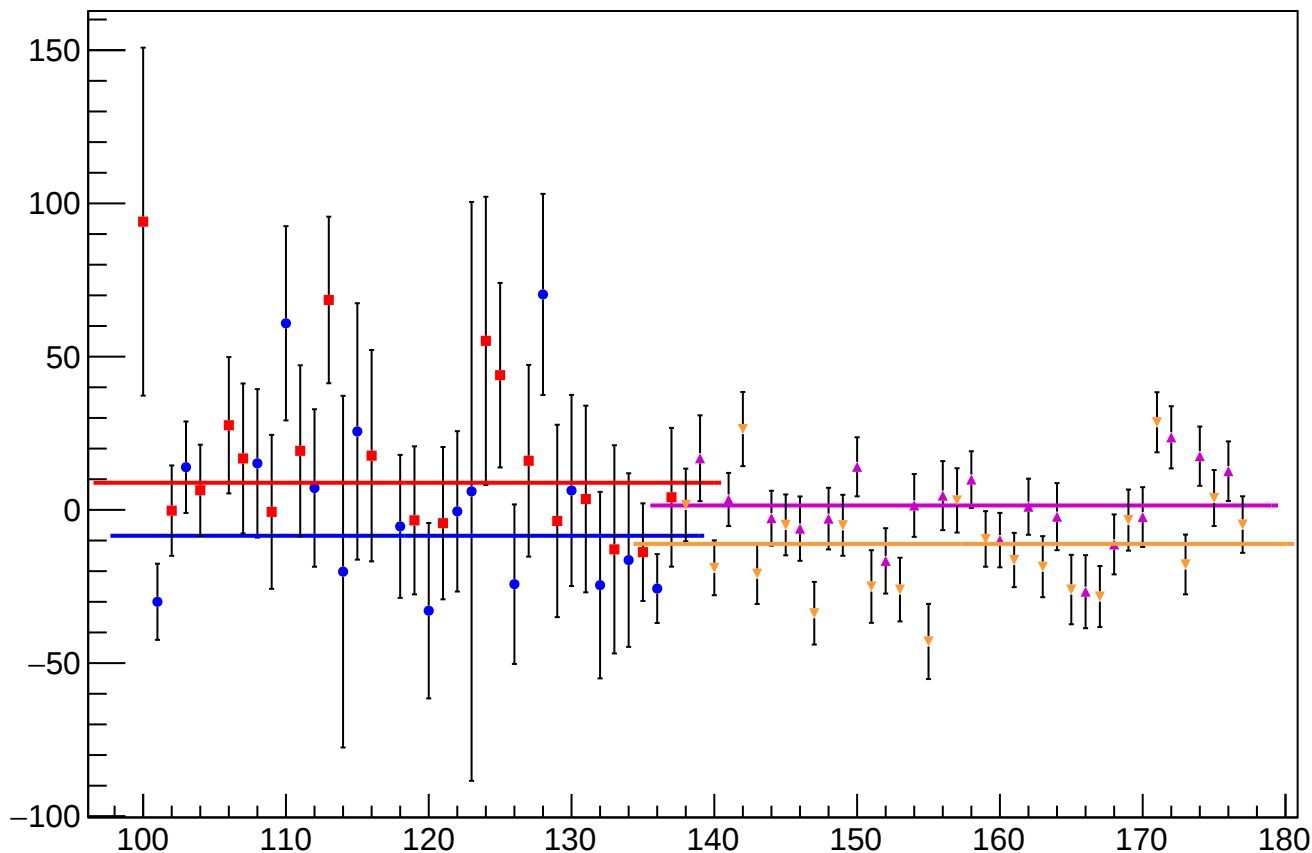
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

In: 6548.157 ± 1.015 $\chi^2/\text{NDF}: 937330.5/35$

Out: 6495.814 ± 0.974 $\chi^2/\text{NDF}: 1024125.9/39$

All: 6520.896 ± 0.703 $\chi^2/\text{NDF}: 1962841.0/75$

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -11.100 ± 2.202 χ^2/NDF : 56.4/20

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

Left In: 1.439 ± 2.291 χ^2/NDF : 25.7/18

Left: -5.078 ± 1.588 χ^2/NDF : 97.7/39

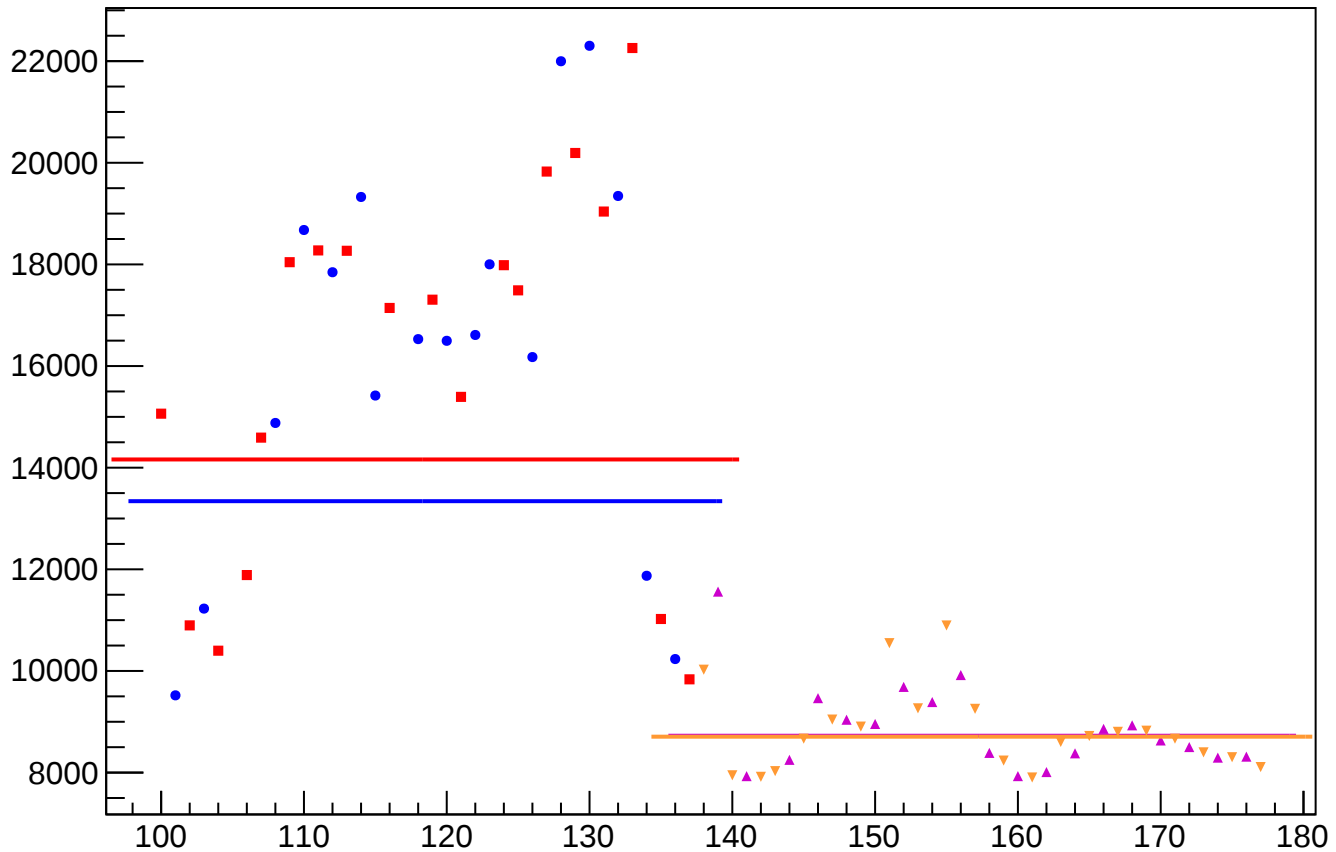
Right: 0.019 ± 3.854 χ^2/NDF : 41.3/35

In: -0.073 ± 2.109 χ^2/NDF : 50.6/35

Out: -8.349 ± 2.045 χ^2/NDF : 81.9/39

All: -4.338 ± 1.468 χ^2/NDF : 140.4/75

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8706.744 $\pm$ 1.557 χ^2 /NDF:220199.9/20

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

Left In: 8725.225 $\pm$ 1.620 χ^2 /NDF:207173.6/18

Left: 8715.620 $\pm$ 1.123 χ^2 /NDF: 427441.1/39

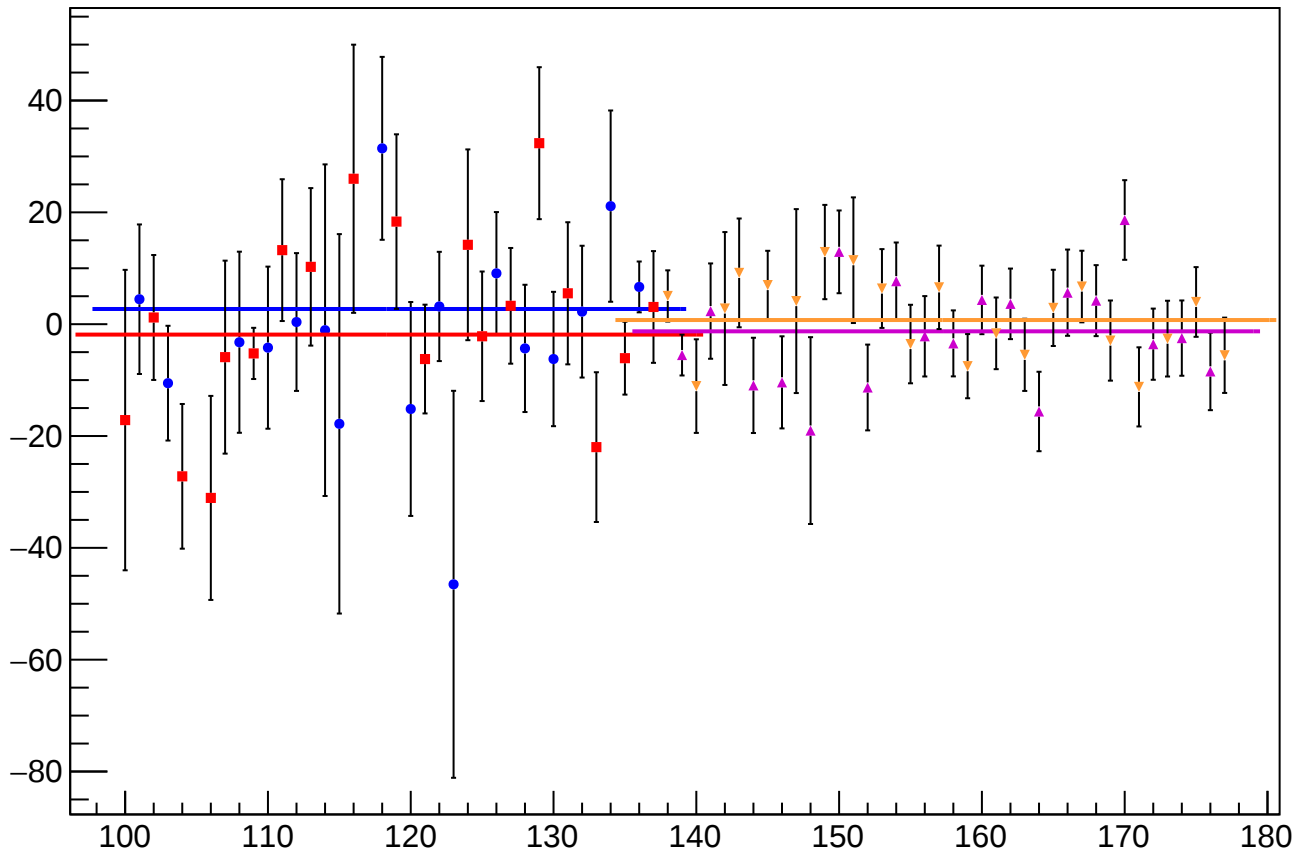
Right: 13742.695 $\pm$ 2.725 χ^2 /NDF: 1999035.6/35

In: 9431.000 $\pm$ 1.491 χ^2 /NDF:2492802.0/35

Out: 9458.650 $\pm$ 1.446 χ^2 /NDF:2843116.7/39

All: 9445.249 $\pm$ 1.038 χ^2 /NDF: 5336095.9/75

diff_bpm1Y_mean vs Slug, Sign Corrected



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

Left Out: 0.742 ± 1.539 $\chi^2/\text{NDF}: 18.0/20$

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

Left In: -1.278 ± 1.533 $\chi^2/\text{NDF}: 28.5/18$

Left: -0.272 ± 1.086 $\chi^2/\text{NDF}: 47.3/39$

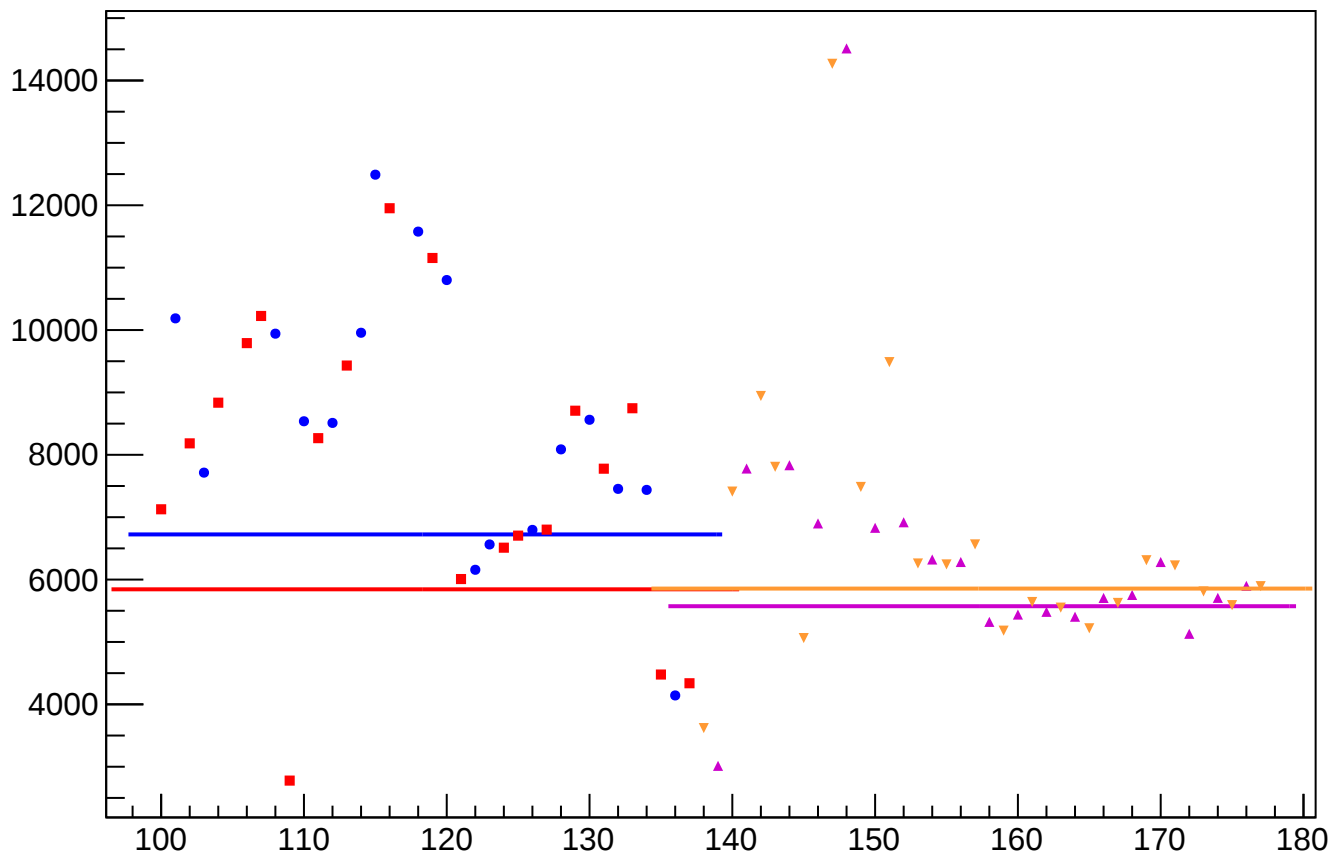
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: -0.332 ± 1.339 $\chi^2/\text{NDF}: 41.8/35$

Out: 0.000 ± 1.302 $\chi^2/\text{NDF}: 42.3/39$

All: -0.161 ± 0.933 $\chi^2/\text{NDF}: 84.1/75$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6723.839 ± 1.946 $\chi^2/\text{NDF}: 1392082.5/16$

Left Out: 5855.631 ± 1.088 $\chi^2/\text{NDF}: 1670891.1/20$

Right Out: 5843.829 ± 1.725 $\chi^2/\text{NDF}: 2277223.8/18$

Left In: 5573.022 ± 1.084 $\chi^2/\text{NDF}: 2084862.6/18$

Left: 5713.783 ± 0.768 $\chi^2/\text{NDF}: 3789601.2/39$

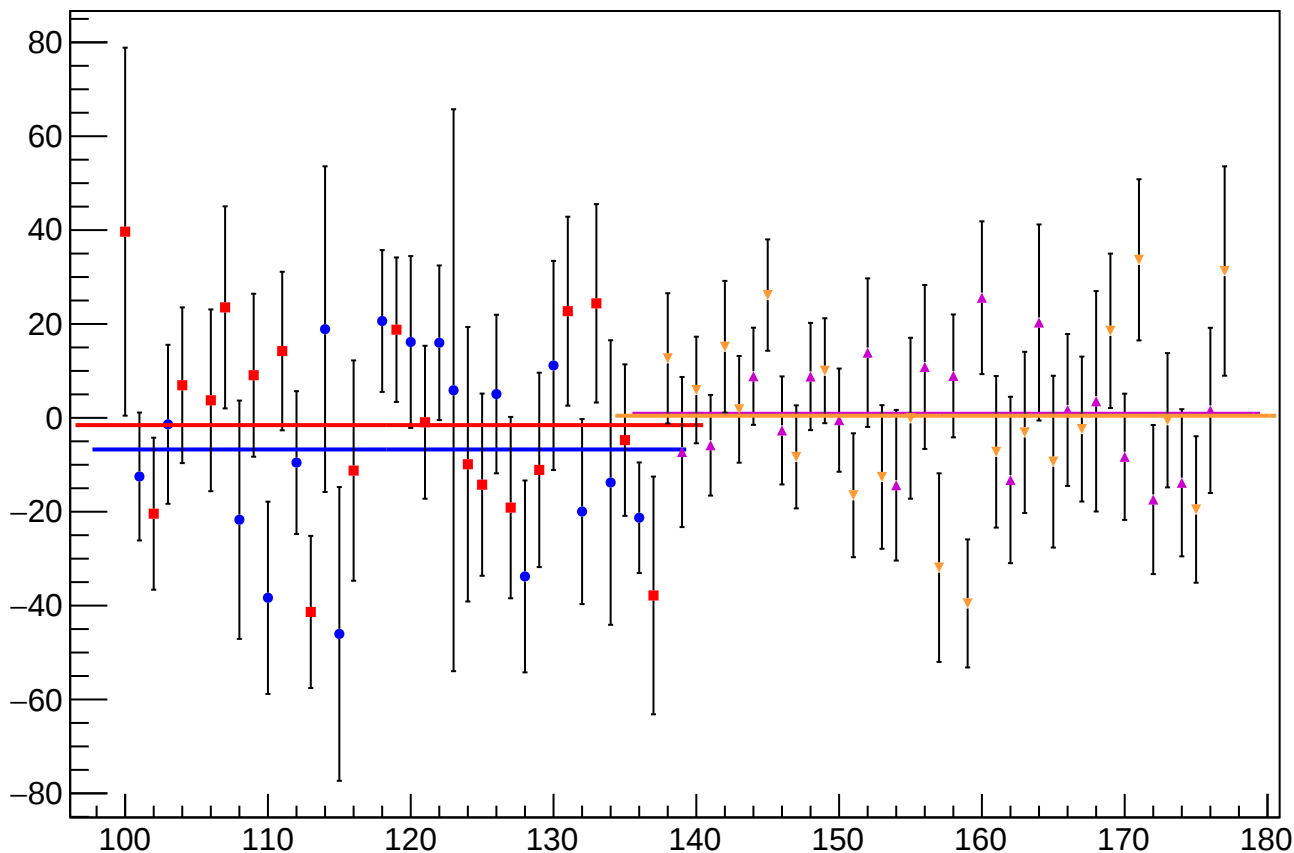
Right: 6230.943 ± 1.291 $\chi^2/\text{NDF}: 3783849.2/35$

In: 5845.594 ± 0.947 $\chi^2/\text{NDF}: 3743844.0/35$

Out: 5852.270 ± 0.920 $\chi^2/\text{NDF}: 3948148.4/39$

All: 5849.027 ± 0.660 $\chi^2/\text{NDF}: 7692018.0/75$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 ± 4.513 χ^2/NDF : 16.9/16

Left Out: 0.453 ± 3.116 χ^2/NDF : 30.9/20

Right Out: -1.549 ± 4.372 χ^2/NDF : 20.0/18

Left In: 0.871 ± 3.260 χ^2/NDF : 10.6/18

Left: 0.653 ± 2.253 χ^2/NDF : 41.5/39

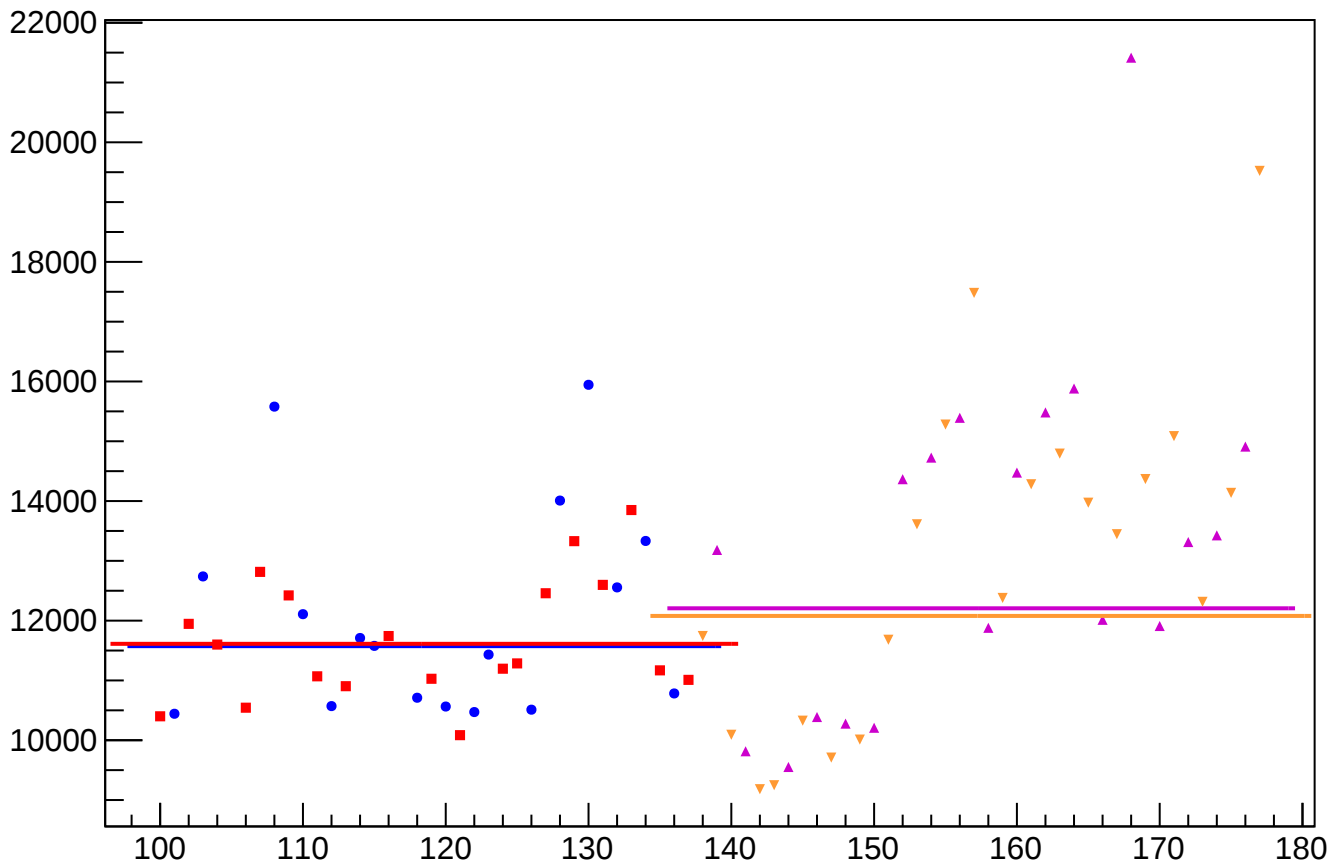
Right: -4.061 ± 3.140 χ^2/NDF : 37.5/35

In: -1.738 ± 2.643 χ^2/NDF : 29.4/35

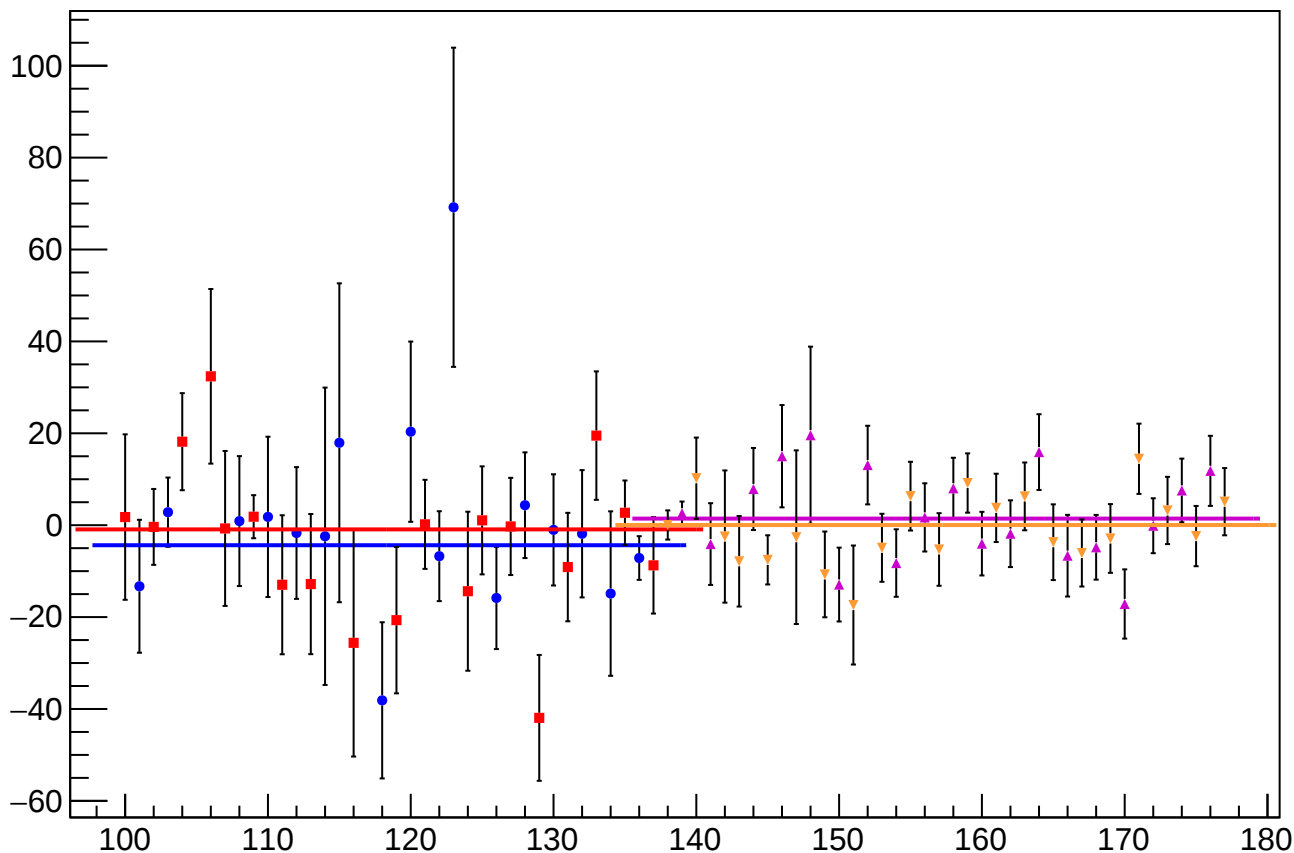
Out: -0.221 ± 2.538 χ^2/NDF : 51.0/39

All: -0.949 ± 1.830 χ^2/NDF : 80.5/75

diff_bpm11X_rms vs Slug, Sign Corrected



diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 $\pm$ 2.776 χ^2/NDF : 14.5/16

Left Out: 0.035 $\pm$ 1.536 χ^2/NDF : 17.2/20

Right Out: -0.914 $\pm$ 2.426 χ^2/NDF : 23.5/18

Left In: 1.437 $\pm$ 1.494 χ^2/NDF : 25.6/18

Left: 0.755 $\pm$ 1.071 χ^2/NDF : 43.1/39

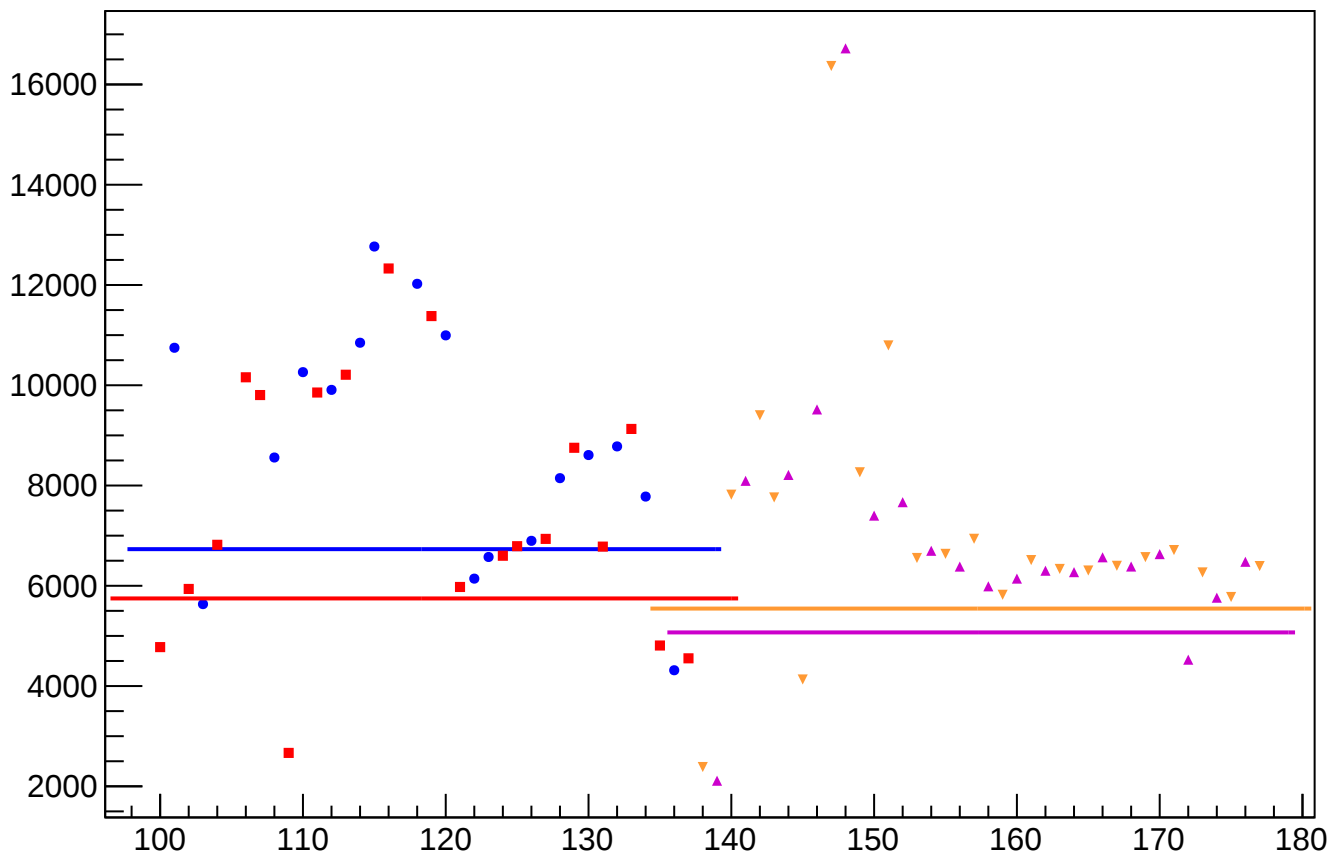
Right: -2.407 $\pm$ 1.827 χ^2/NDF : 38.9/35

In: 0.134 $\pm$ 1.316 χ^2/NDF : 43.5/35

Out: -0.237 $\pm$ 1.298 χ^2/NDF : 40.8/39

All: -0.054 $\pm$ 0.924 χ^2/NDF : 84.3/75

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 ± 1.963

$\chi^2/\text{NDF}: 1445240.4/16$

Left: 5301.184 ± 0.757

$\chi^2/\text{NDF}: 9341057.7/39$

Left Out: 5545.535 ± 1.086

$\chi^2/\text{NDF}: 4029366.1/20$

Right: 6173.310 ± 1.292

$\chi^2/\text{NDF}: 3749669.1/35$

Right Out: 5747.643 ± 1.716

$\chi^2/\text{NDF}: 2162236.7/18$

In: 5443.011 ± 0.930

$\chi^2/\text{NDF}: 7213362.5/35$

Out: 5603.372 ± 0.918

$\chi^2/\text{NDF}: 6201510.7/39$

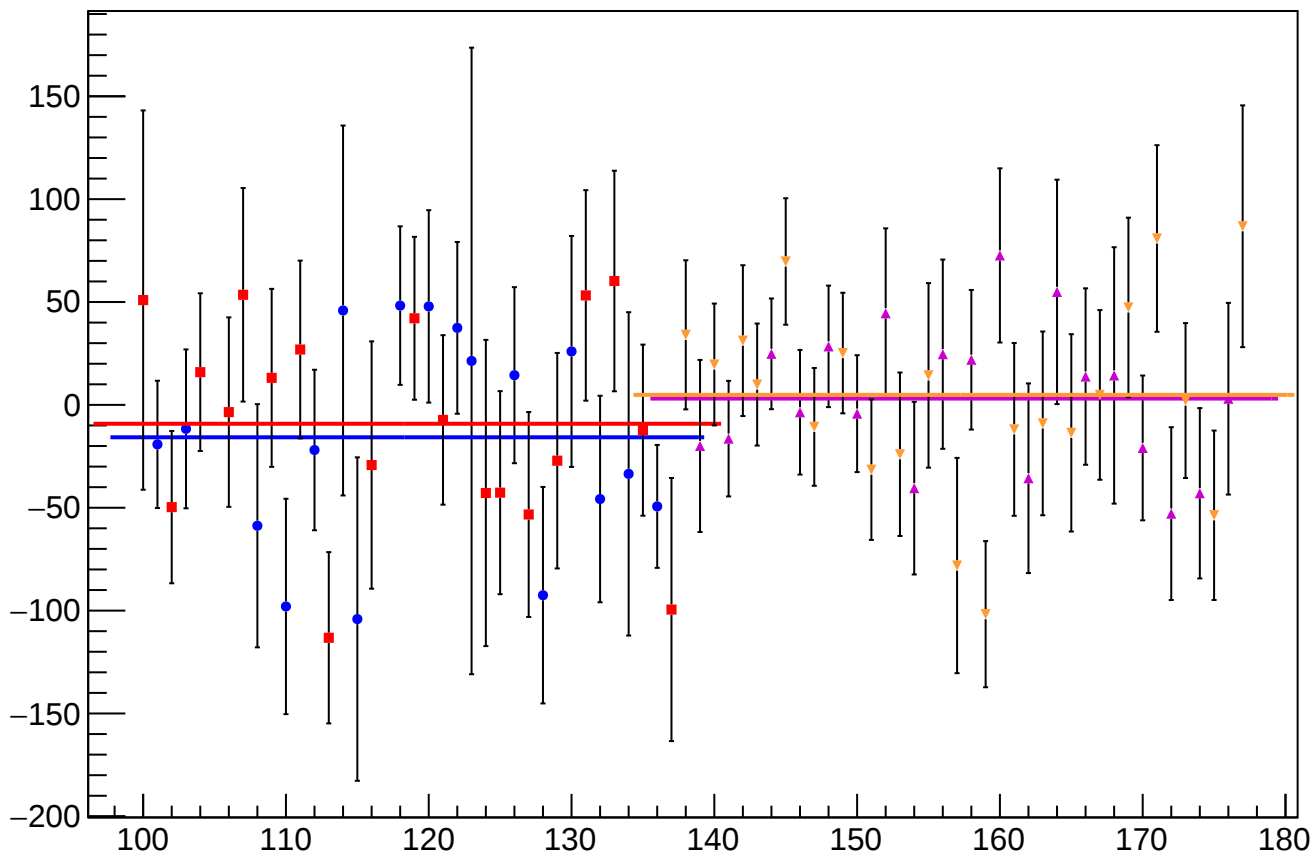
Left In: 5069.941 ± 1.057

$\chi^2/\text{NDF}: 5213190.3/18$

All: 5524.296 ± 0.653

$\chi^2/\text{NDF}: 13429930.2/7$

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 4.881 ± 8.150 χ^2/NDF : 28.0/20

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

Left In: 3.064 ± 8.520 χ^2/NDF : 12.8/18

Left: 4.013 ± 5.889 χ^2/NDF : 40.8/39

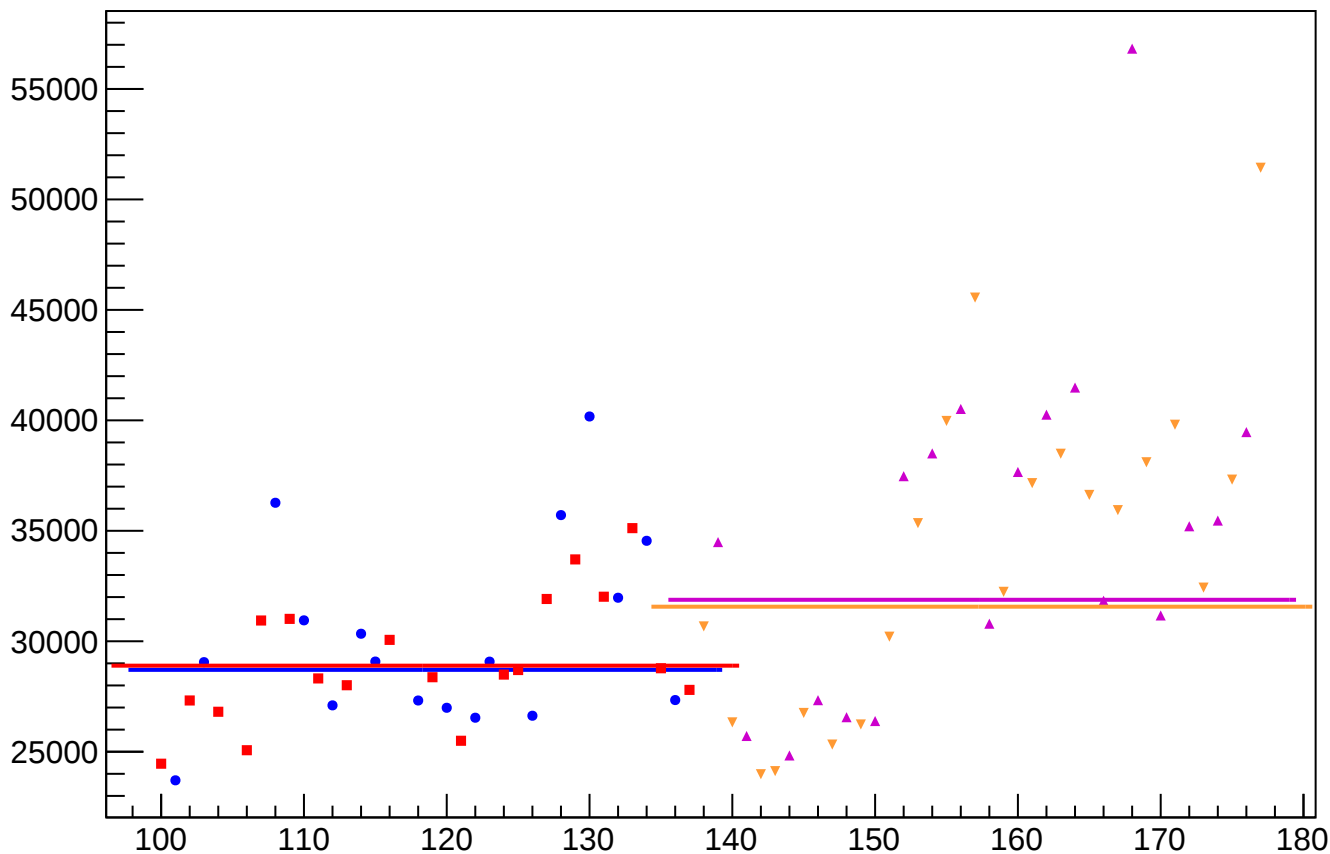
Right: -12.370 ± 7.810 χ^2/NDF : 35.4/35

In: -3.827 ± 6.783 χ^2/NDF : 30.5/35

Out: -0.167 ± 6.525 χ^2/NDF : 48.3/39

All: -1.926 ± 4.702 χ^2/NDF : 79.0/75

diff_bpm12X_rms vs Slug, Sign Corrected



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

Left Out: 31565.092+/-5.763 χ^2/NDF : 1228535.9/20

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

Left In: 31877.632+/-6.024 χ^2/NDF : 1152442.6/18

Left: 31714.424+/-4.164 χ^2/NDF : 2382383.9/39

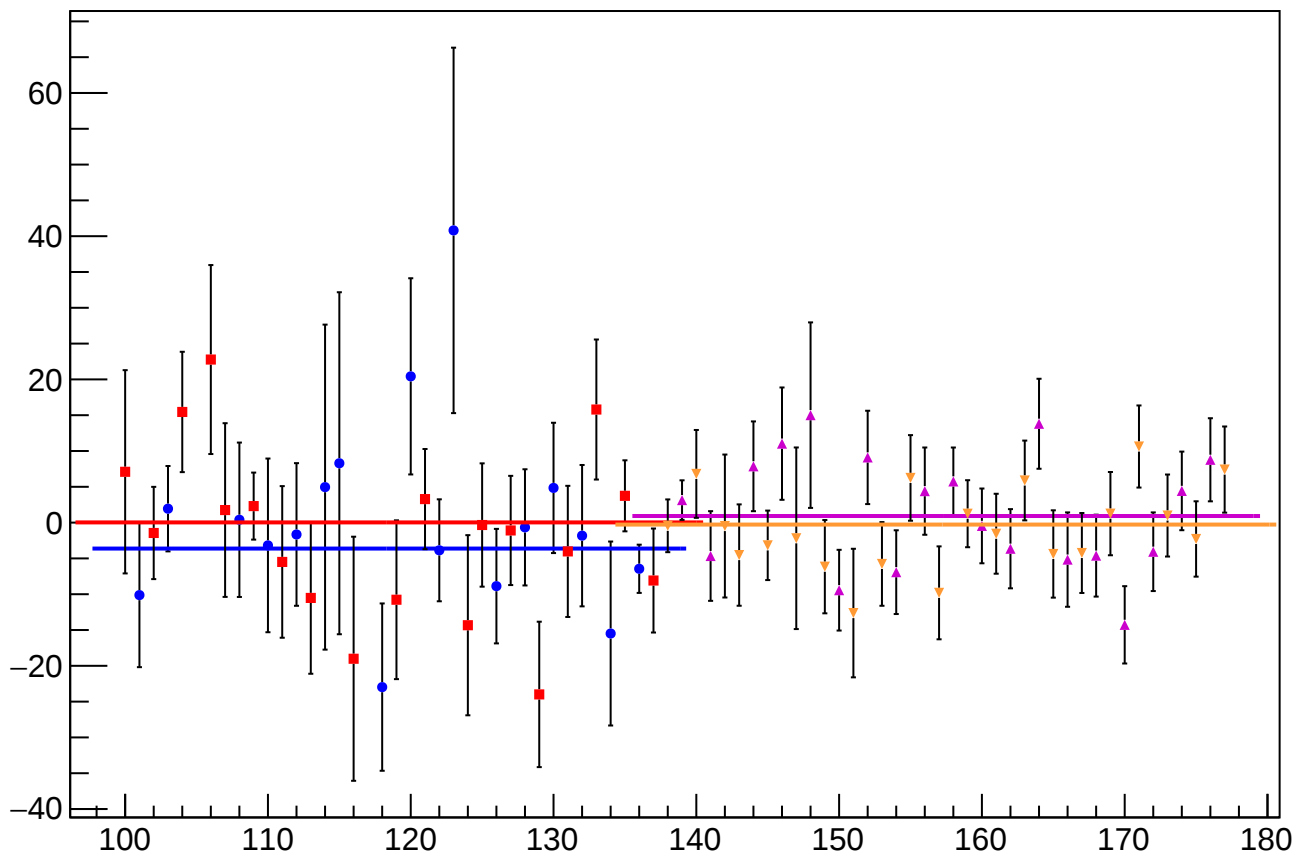
Right: 28803.288+/-5.522 χ^2/NDF : 362500.7/35

In: 30715.879+/-4.796 χ^2/NDF : 1504971.0/35

Out: 30606.647+/-4.614 χ^2/NDF : 1416796.0/39

All: 30659.147+/-3.325 χ^2/NDF : 2922036.4/77

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -0.274 ± 1.271 χ^2/NDF : 16.9/20

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

Left In: 0.921 ± 1.251 χ^2/NDF : 31.4/18

Left: 0.333 ± 0.892 χ^2/NDF : 48.7/39

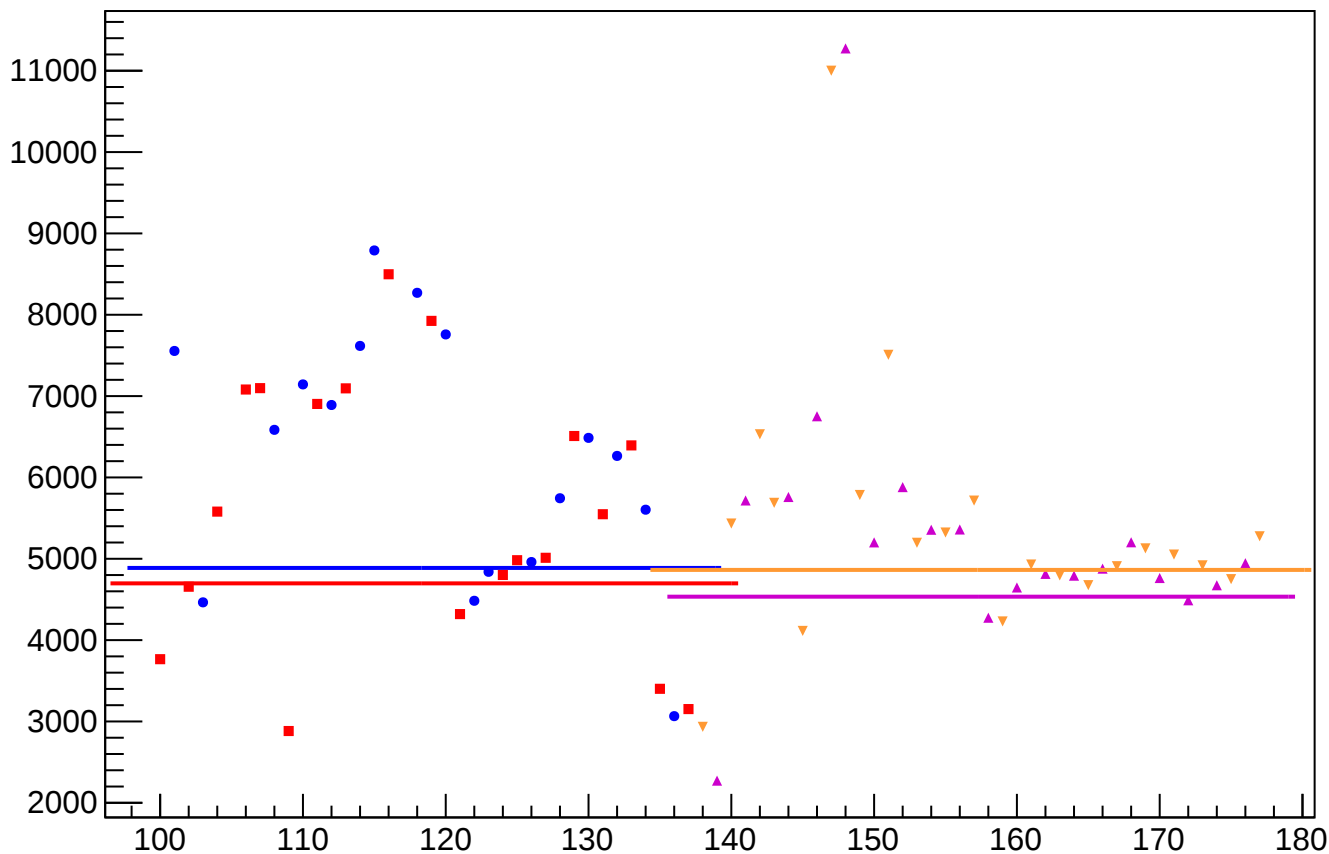
Right: -1.690 ± 1.376 χ^2/NDF : 37.6/35

In: -0.352 ± 1.062 χ^2/NDF : 48.8/35

Out: -0.180 ± 1.055 χ^2/NDF : 39.0/39

All: -0.266 ± 0.748 χ^2/NDF : 87.8/75

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4863.142 +/- 0.899 χ^2/NDF : 1487367.9/20

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

Left In: 4534.056 +/- 0.885 χ^2/NDF : 2444025.9/18

Left: 4696.041 +/- 0.630 χ^2/NDF : 3999488.1/39

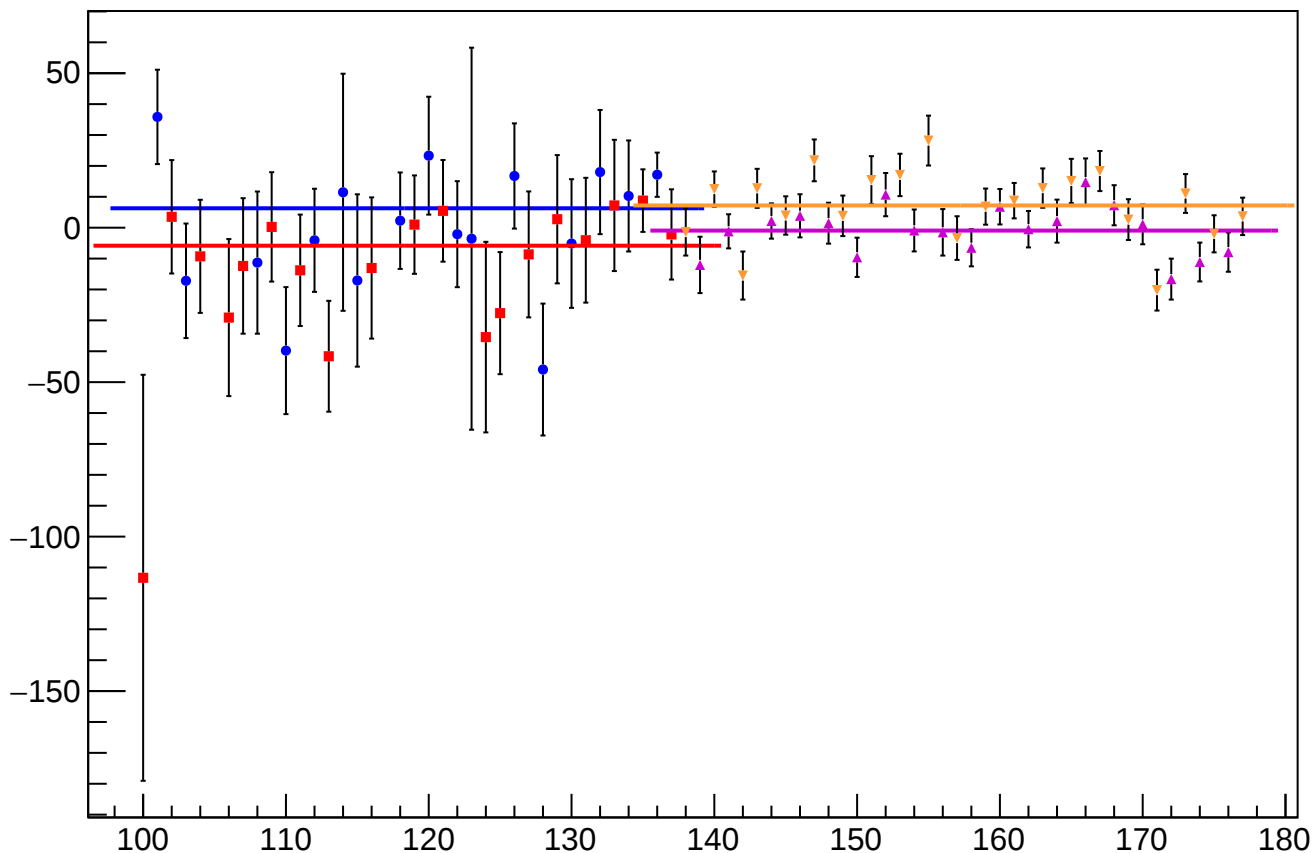
Right: 4786.972 +/- 0.973 χ^2/NDF : 2731901.7/35

In: 4633.060 +/- 0.751 χ^2/NDF : 3898023.6/35

Out: 4811.635 +/- 0.746 χ^2/NDF : 2811039.2/39

All: 4722.942 +/- 0.529 χ^2/NDF : 6737543.5/75

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 7.196 $\pm$ 1.432 χ^2 /NDF:54.6/20

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

Left In: -0.937 $\pm$ 1.493 χ^2 /NDF:25.2/18

Left: 3.299 $\pm$ 1.034 χ^2 /NDF: 95.2/39

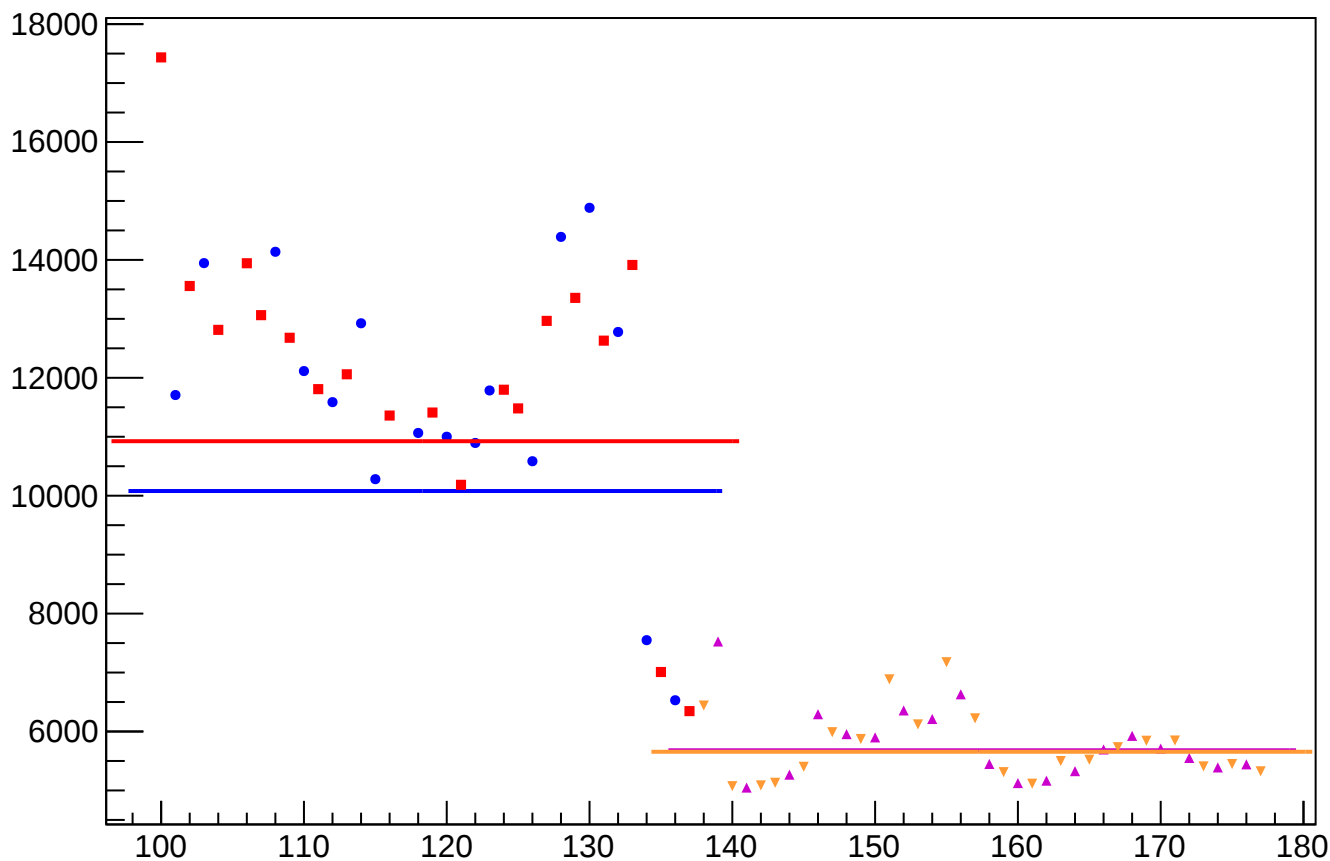
Right: 0.454 $\pm$ 2.927 χ^2 /NDF: 40.6/35

In: -0.078 $\pm$ 1.402 χ^2 /NDF:50.5/35

Out: 5.851 $\pm$ 1.356 χ^2 /NDF:76.9/39

All: 2.984 $\pm$ 0.975 χ^2 /NDF: 136.7/75

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5656.235 $\pm$ 1.013 χ^2/NDF :262309.8/20

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

Left In: 5681.774 $\pm$ 1.056 χ^2/NDF :255454.4/18

Left: 5668.471 $\pm$ 0.731 χ^2/NDF : 518069.0/39

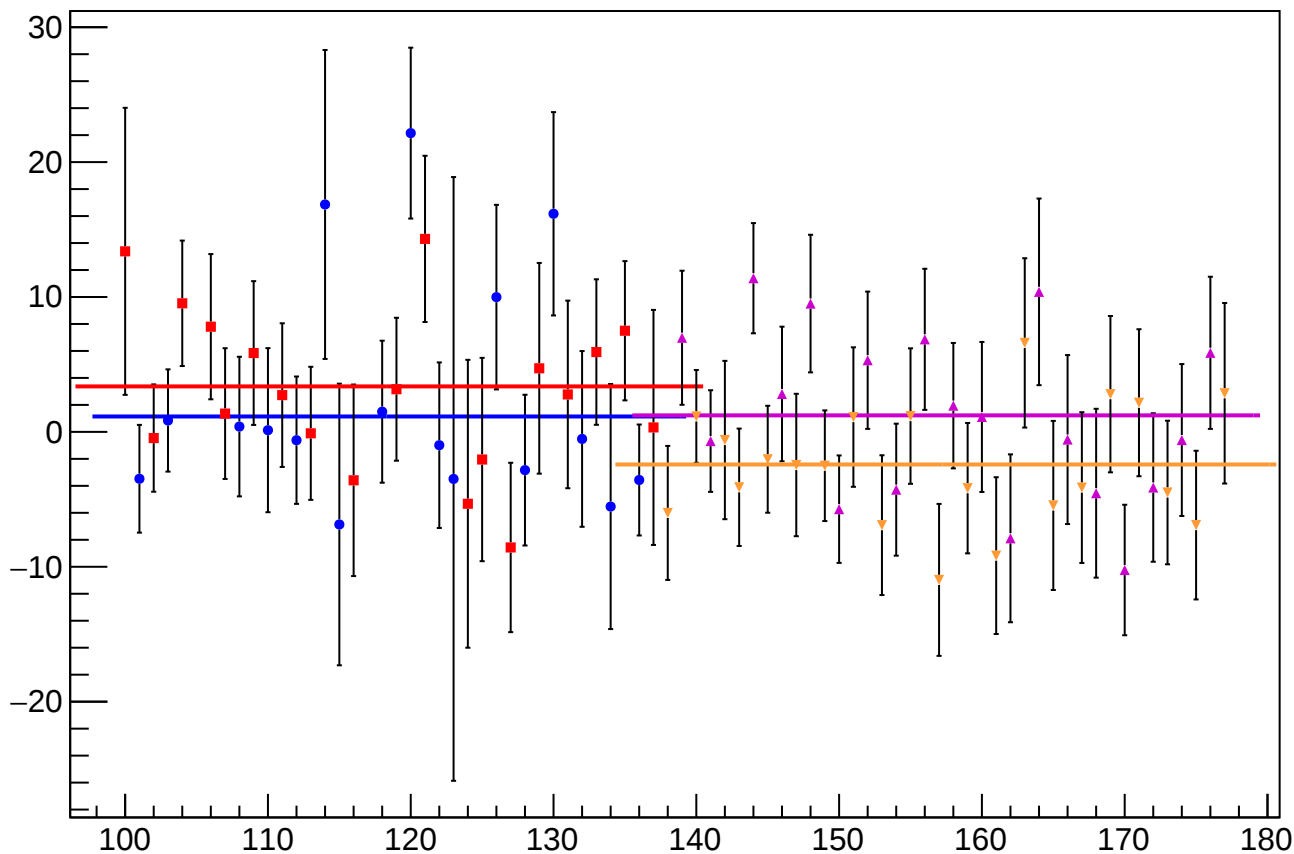
Right: 10486.193 $\pm$ 2.070 χ^2/NDF : 1804751.7/35

In: 6204.829 $\pm$ 0.991 χ^2/NDF :3313371.3/35

Out: 6200.517 $\pm$ 0.959 χ^2/NDF :3827008.9/39

All: 6202.602 $\pm$ 0.689 χ^2/NDF : 7140390.0/75

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.416 ± 1.104 $\chi^2/\text{NDF}: 12.7/20$

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

Left In: 1.224 ± 1.159 $\chi^2/\text{NDF}: 28.9/18$

Left: -0.684 ± 0.799 $\chi^2/\text{NDF}: 46.7/39$

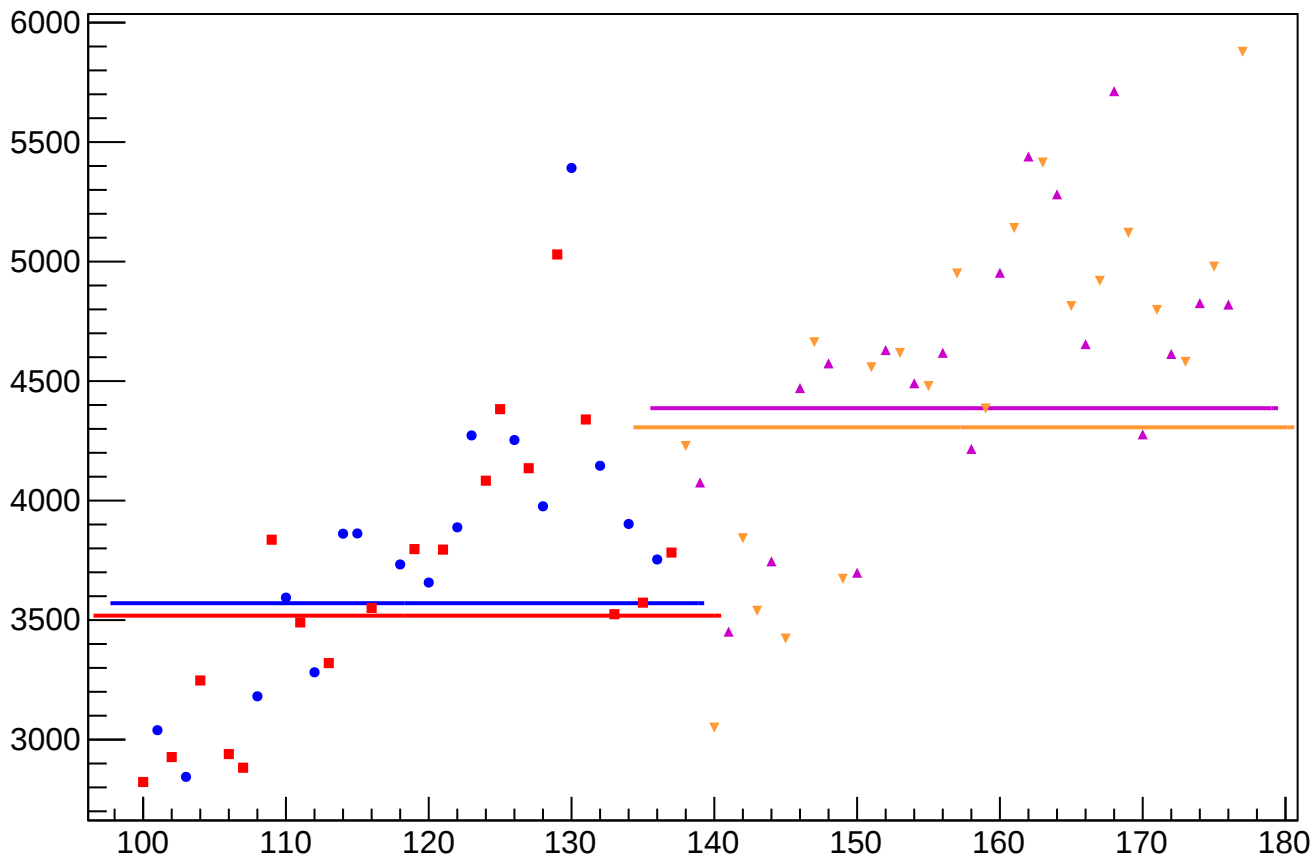
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.191 ± 0.891 $\chi^2/\text{NDF}: 52.1/35$

Out: -0.062 ± 0.850 $\chi^2/\text{NDF}: 39.0/39$

All: 0.535 ± 0.615 $\chi^2/\text{NDF}: 92.1/75$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4306.662 $\pm$ 0.780 χ^2 /NDF:880721.3/20

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

Left In: 4386.598 $\pm$ 0.819 χ^2 /NDF:488828.8/18

Left: 4344.683 $\pm$ 0.565 χ^2 /NDF: 1374539.9/39

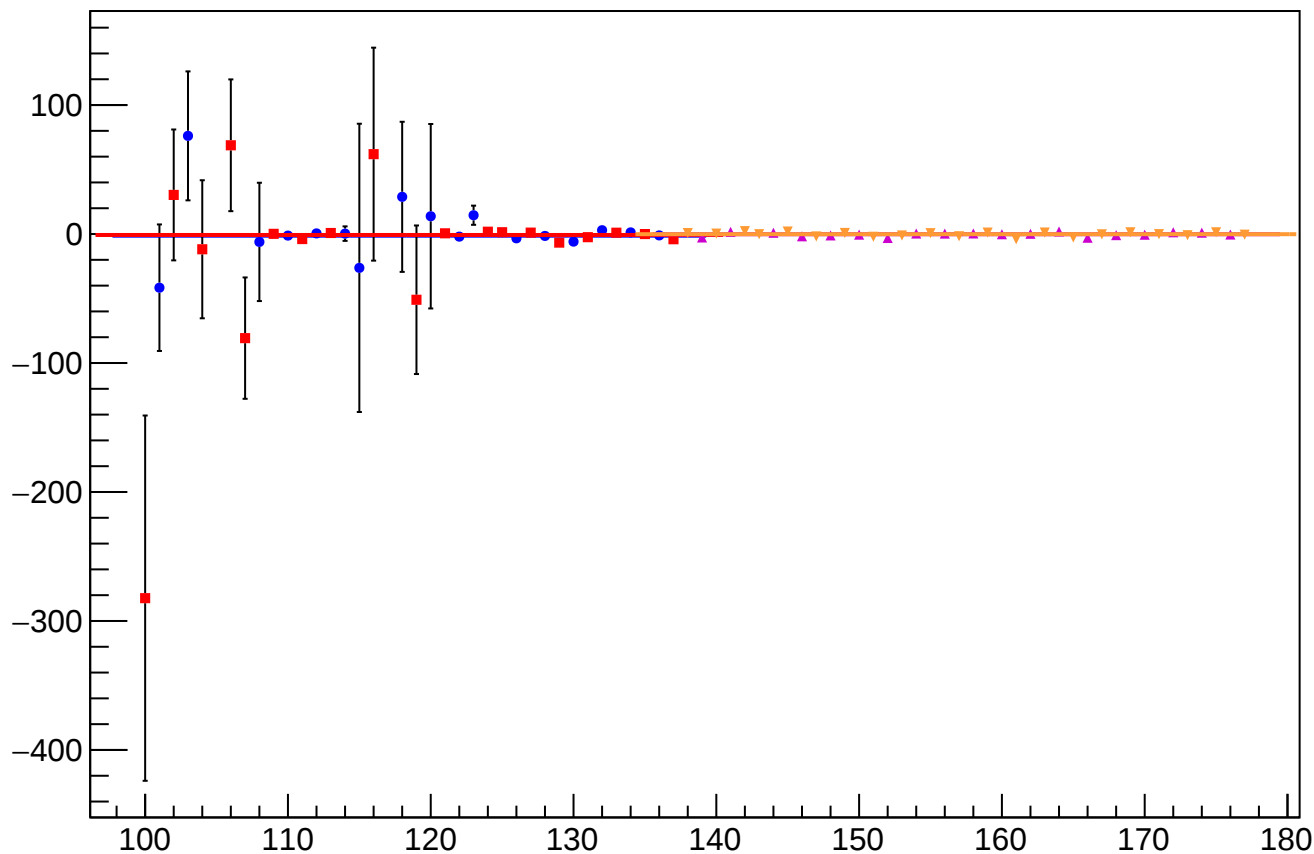
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

In: 4053.508 $\pm$ 0.630 χ^2 /NDF:1203117.4/35

Out: 3986.186 $\pm$ 0.601 χ^2 /NDF:1588581.5/39

All: 4018.251 $\pm$ 0.435 χ^2 /NDF: 2797672.3/75

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.129 ± 0.266 χ^2/NDF : 33.8/20

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

Left In: -0.141 ± 0.276 χ^2/NDF : 25.0/18

Left: -0.135 ± 0.192 χ^2/NDF : 58.7/39

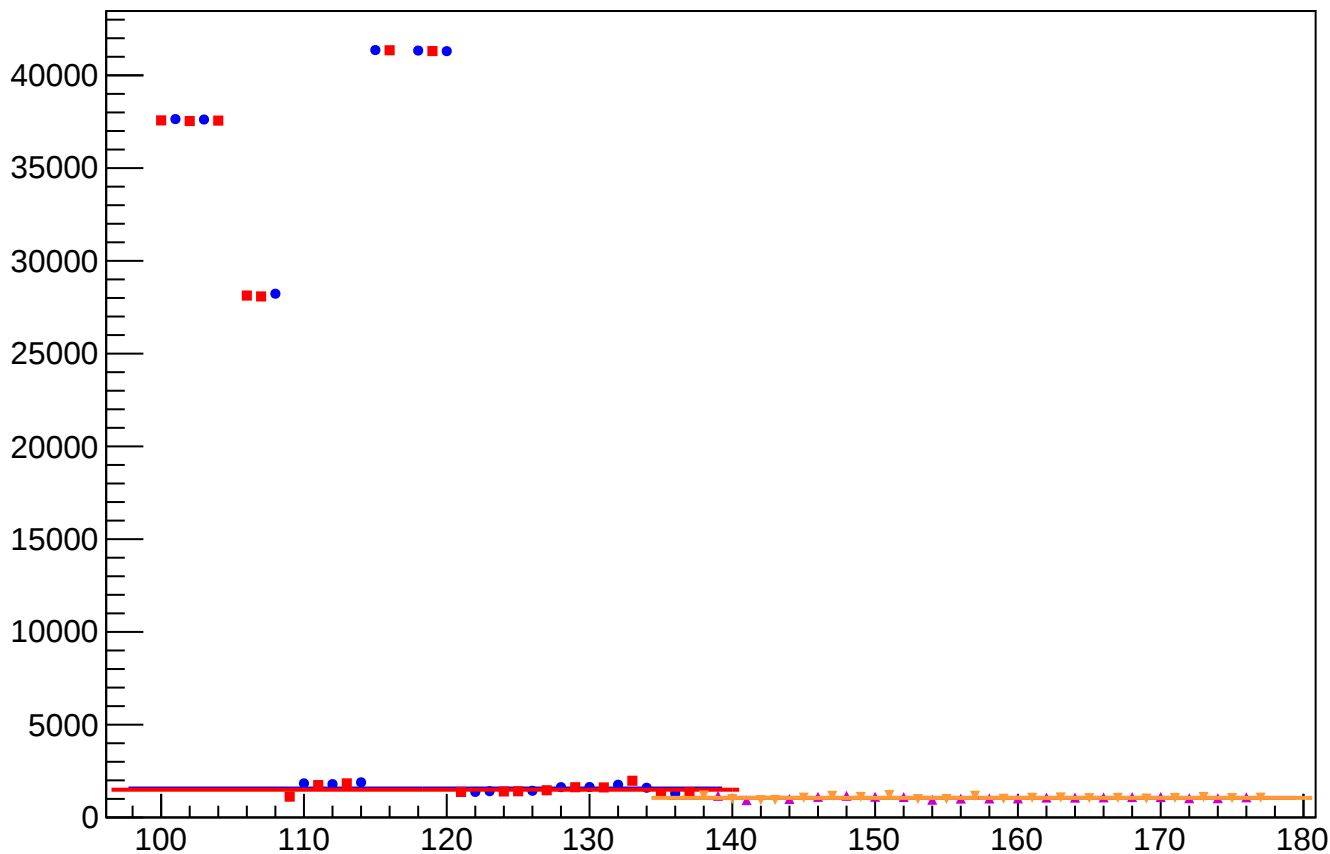
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.275 ± 0.259 χ^2/NDF : 43.2/35

Out: -0.204 ± 0.249 χ^2/NDF : 56.5/39

All: -0.238 ± 0.180 χ^2/NDF : 99.7/75

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1054.215 ± 0.188 $\chi^2/\text{NDF}: 134879.2/20$

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

Left In: 1054.291 ± 0.195 $\chi^2/\text{NDF}: 107074.9/18$

Left: 1054.251 ± 0.136 $\chi^2/\text{NDF}: 241954.1/39$

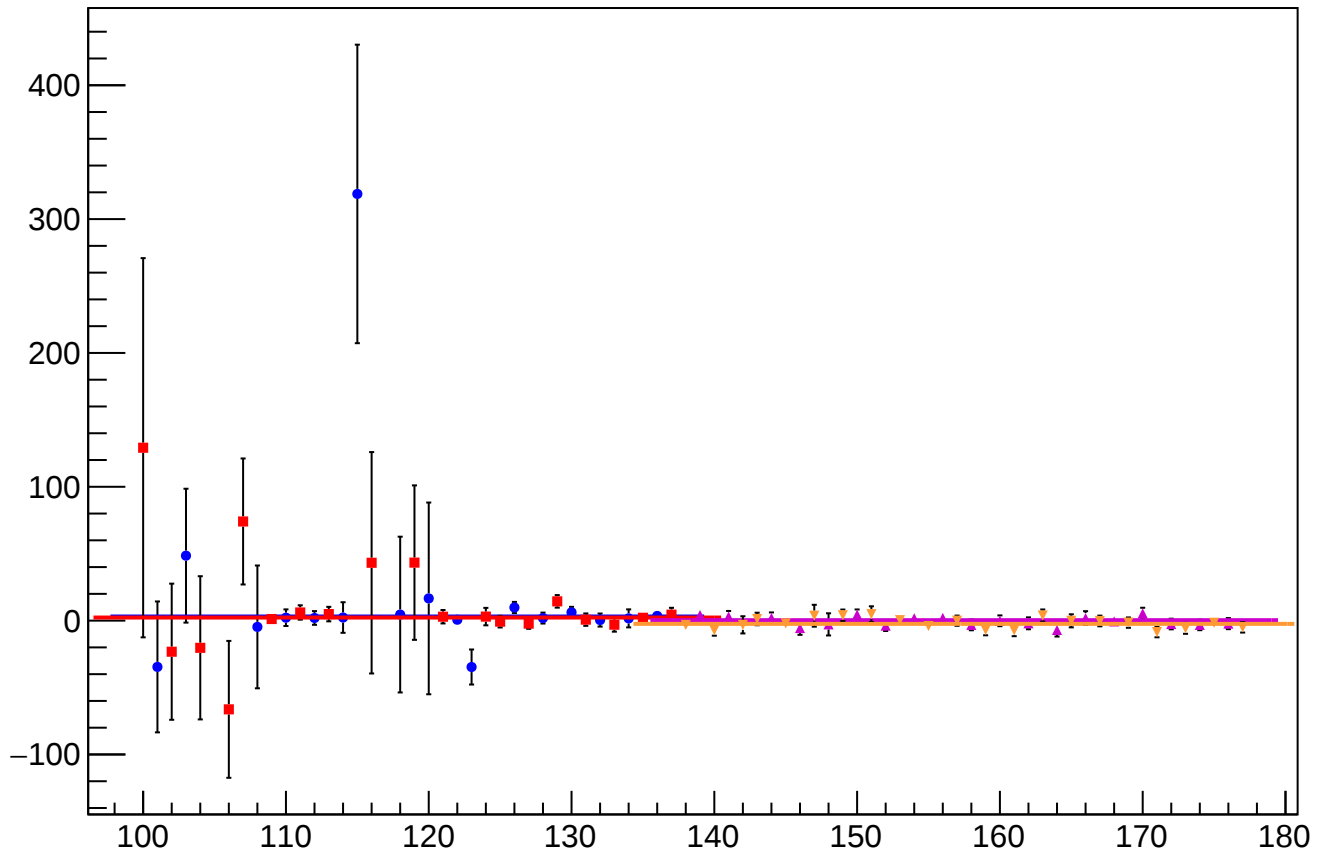
Right: 1525.146 ± 0.364 $\chi^2/\text{NDF}: 9654379.4/35$

In: 1114.941 ± 0.183 $\chi^2/\text{NDF}: 5662147.7/35$

Out: 1108.405 ± 0.176 $\chi^2/\text{NDF}: 5702069.1/39$

All: 1111.543 ± 0.127 $\chi^2/\text{NDF}: 11364877.5/74$

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -2.422 ± 0.871 $\chi^2/\text{NDF}: 16.1/20$

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

Left In: 0.330 ± 0.912 $\chi^2/\text{NDF}: 14.0/18$

Left: -1.109 ± 0.630 $\chi^2/\text{NDF}: 34.9/39$

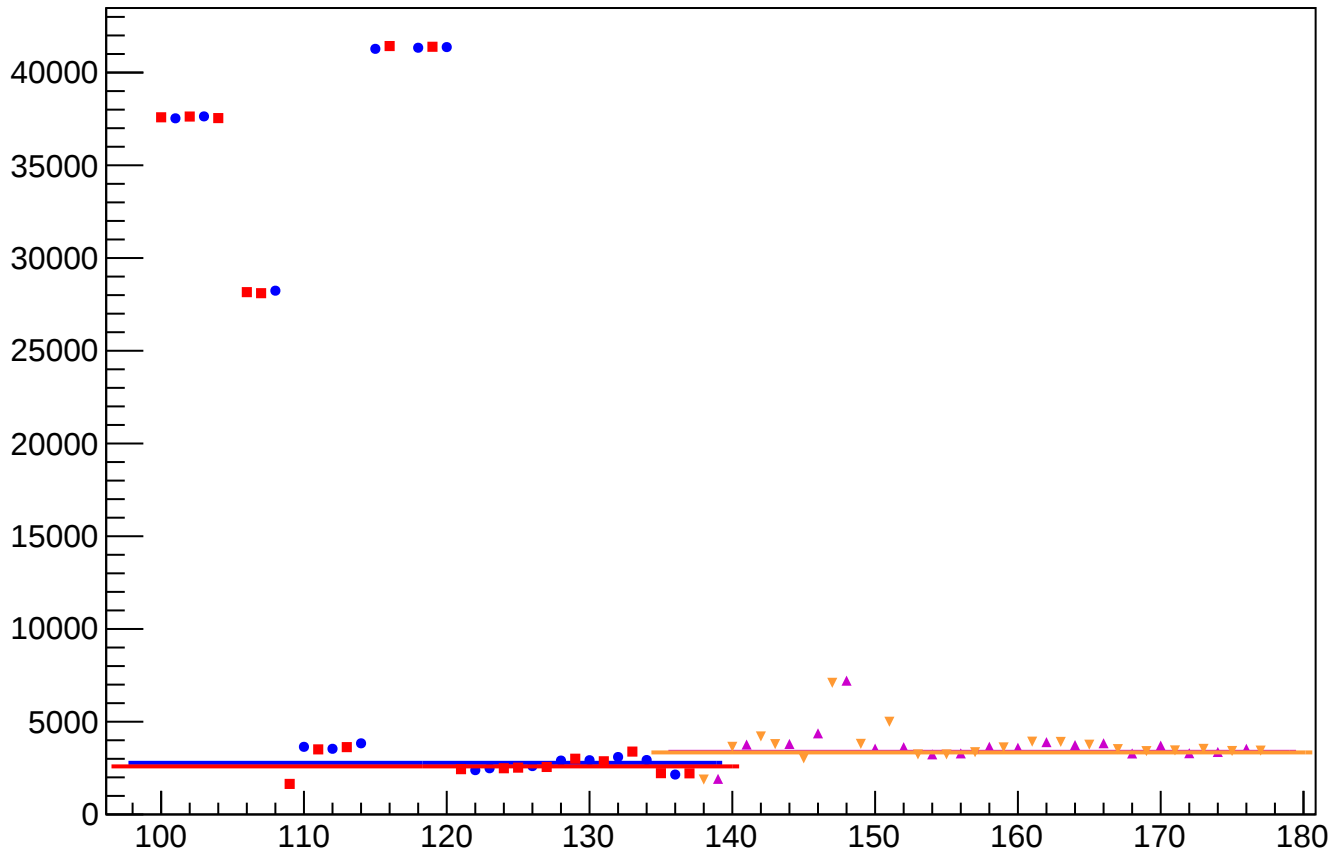
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.214 ± 0.751 $\chi^2/\text{NDF}: 38.8/35$

Out: -0.850 ± 0.712 $\chi^2/\text{NDF}: 42.9/39$

All: 0.127 ± 0.517 $\chi^2/\text{NDF}: 85.6/75$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2783.989 ± 0.936 $\chi^2/\text{NDF}: 4577424.2/16$

Left Out: 3344.137 ± 0.616 $\chi^2/\text{NDF}: 1627747.6/20$

Right Out: 2591.161 ± 0.873 $\chi^2/\text{NDF}: 4846722.1/18$

Left In: 3376.358 ± 0.645 $\chi^2/\text{NDF}: 1406909.6/18$

Left: 3359.515 ± 0.445 $\chi^2/\text{NDF}: 3035962.3/39$

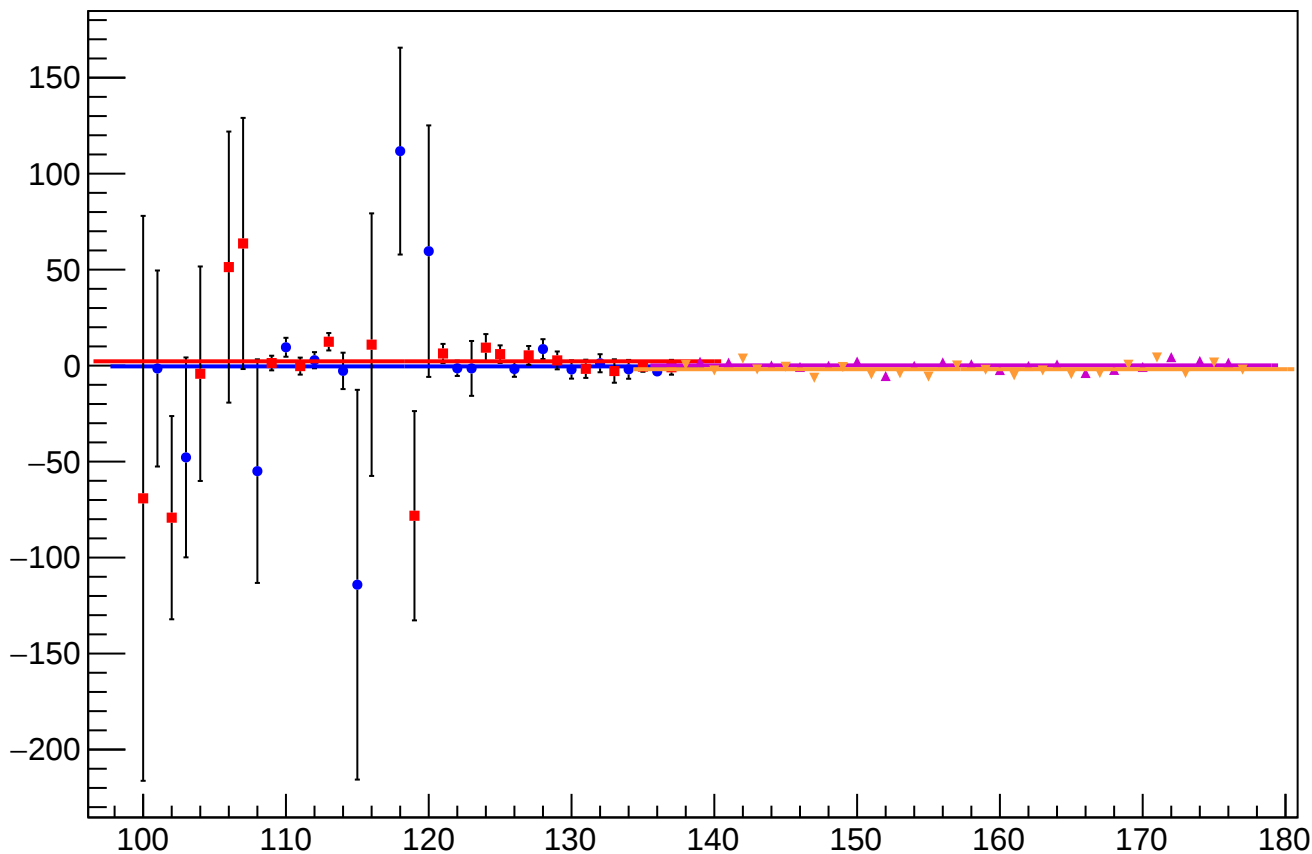
Right: 2680.897 ± 0.638 $\chi^2/\text{NDF}: 9446853.4/35$

In: 3185.617 ± 0.531 $\chi^2/\text{NDF}: 6256091.5/35$

Out: 3093.752 ± 0.503 $\chi^2/\text{NDF}: 6971089.4/39$

All: 3137.239 ± 0.365 $\chi^2/\text{NDF}: 13242946.3/71$

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.873 ± 0.420 χ^2/NDF : 42.5/20

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

Left In: 0.127 ± 0.437 χ^2/NDF : 24.8/18

Left: -0.912 ± 0.303 χ^2/NDF : 78.1/39

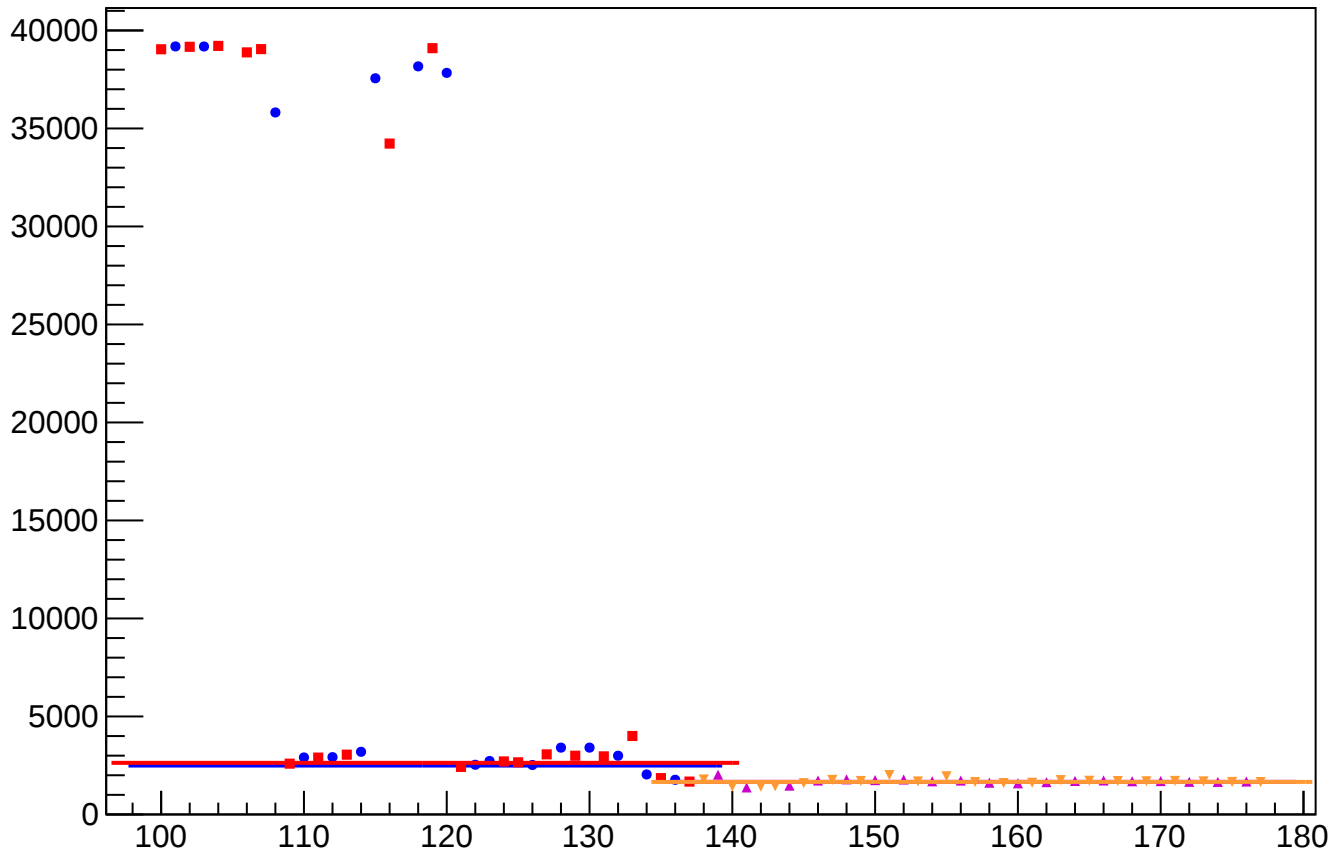
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: 0.067 ± 0.411 χ^2/NDF : 43.2/35

Out: -1.453 ± 0.398 χ^2/NDF : 69.7/39

All: -0.718 ± 0.286 χ^2/NDF : 120.0/75

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1660.397 $\pm$ 0.297 χ^2 /NDF: 214875.7/20

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

Left In: 1663.390 $\pm$ 0.309 χ^2 /NDF: 178377.8/18

Left: 1661.834 $\pm$ 0.214 χ^2 /NDF: 393302.4/39

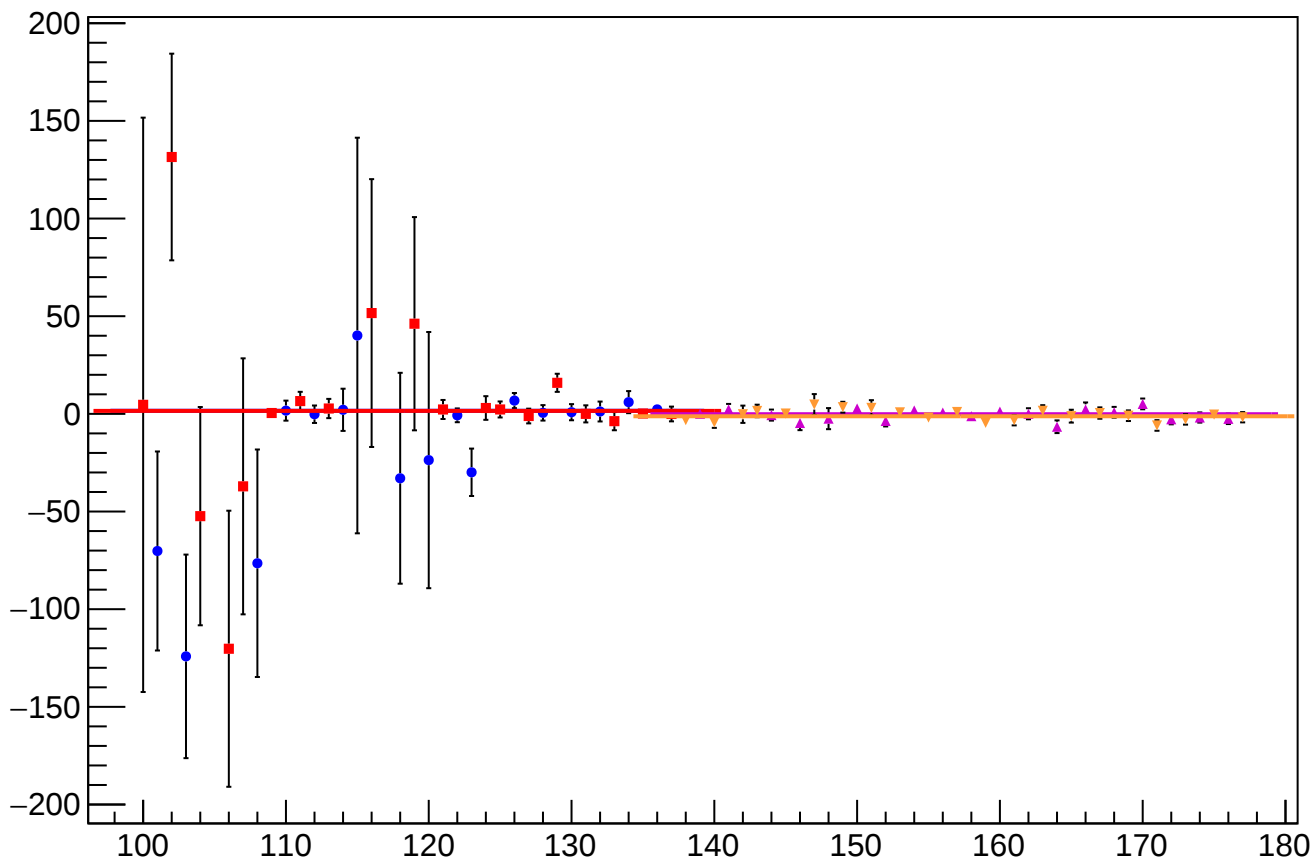
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1758.189 $\pm$ 0.291 χ^2 /NDF: 5888278.6/35

Out: 1759.576 $\pm$ 0.281 χ^2 /NDF: 6170453.4/39

All: 1758.905 $\pm$ 0.202 χ^2 /NDF: 12058743.8/79

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.576 $\pm$ 1.143 χ^2 /NDF: 20.3/16

Left Out: -1.231 $\pm$ 0.577 χ^2 /NDF:18.5/20

Right Out: 1.524 $\pm$ 1.062 χ^2 /NDF: 25.0/18

Left In: -0.176 $\pm$ 0.586 χ^2 /NDF:17.1/18

Left: -0.712 $\pm$ 0.411 χ^2 /NDF: 37.2/39

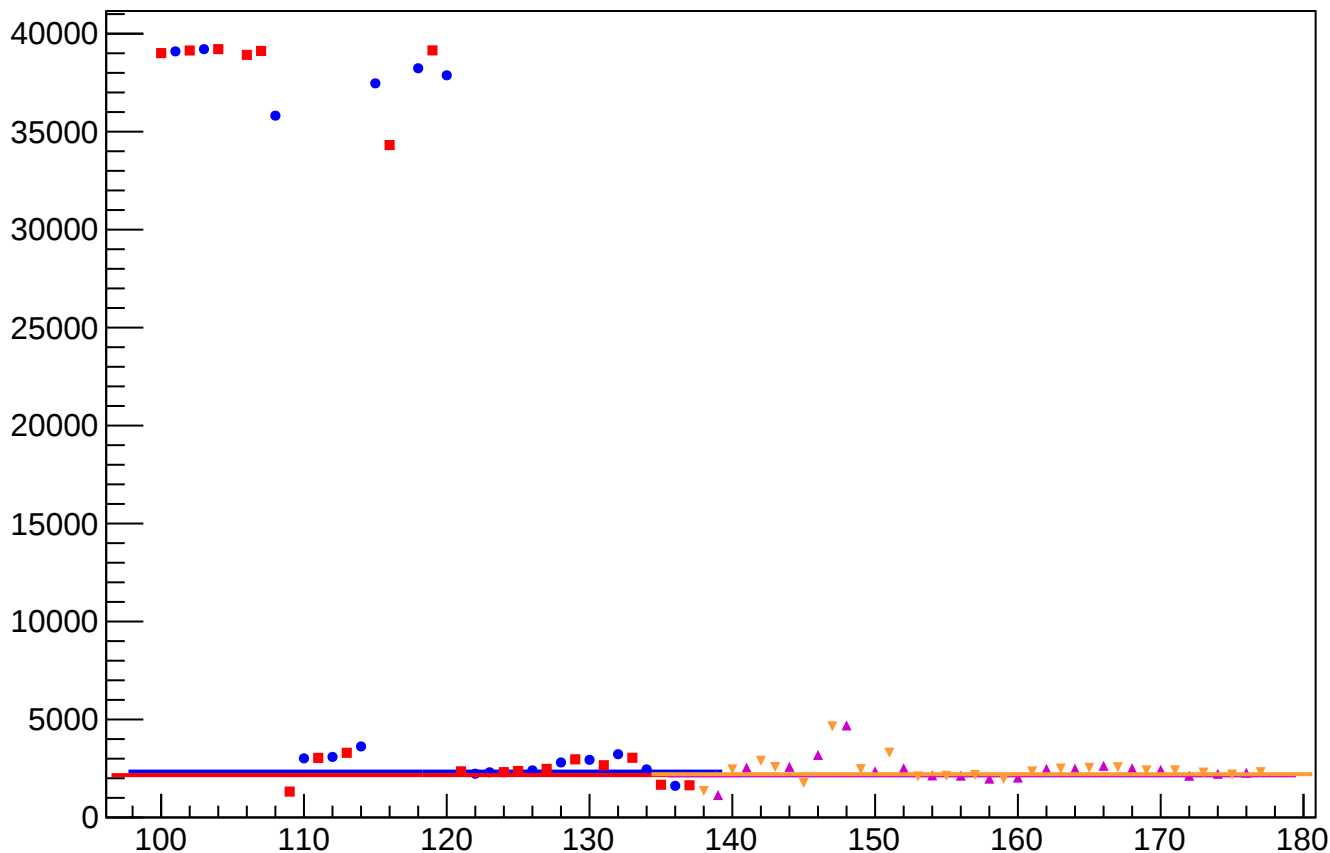
Right: 1.548 $\pm$ 0.778 χ^2 /NDF: 45.4/35

In: 0.189 $\pm$ 0.522 χ^2 /NDF:39.3/35

Out: -0.603 $\pm$ 0.507 χ^2 /NDF:48.7/39

All: -0.218 $\pm$ 0.364 χ^2 /NDF: 89.2/75

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2208.411+/-0.408 χ^2/NDF : 1407781.4/20

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

Left In: 2146.319+/-0.415 χ^2/NDF : 1951999.3/18

Left: 2177.875+/-0.291 χ^2/NDF : 3371178.6/39

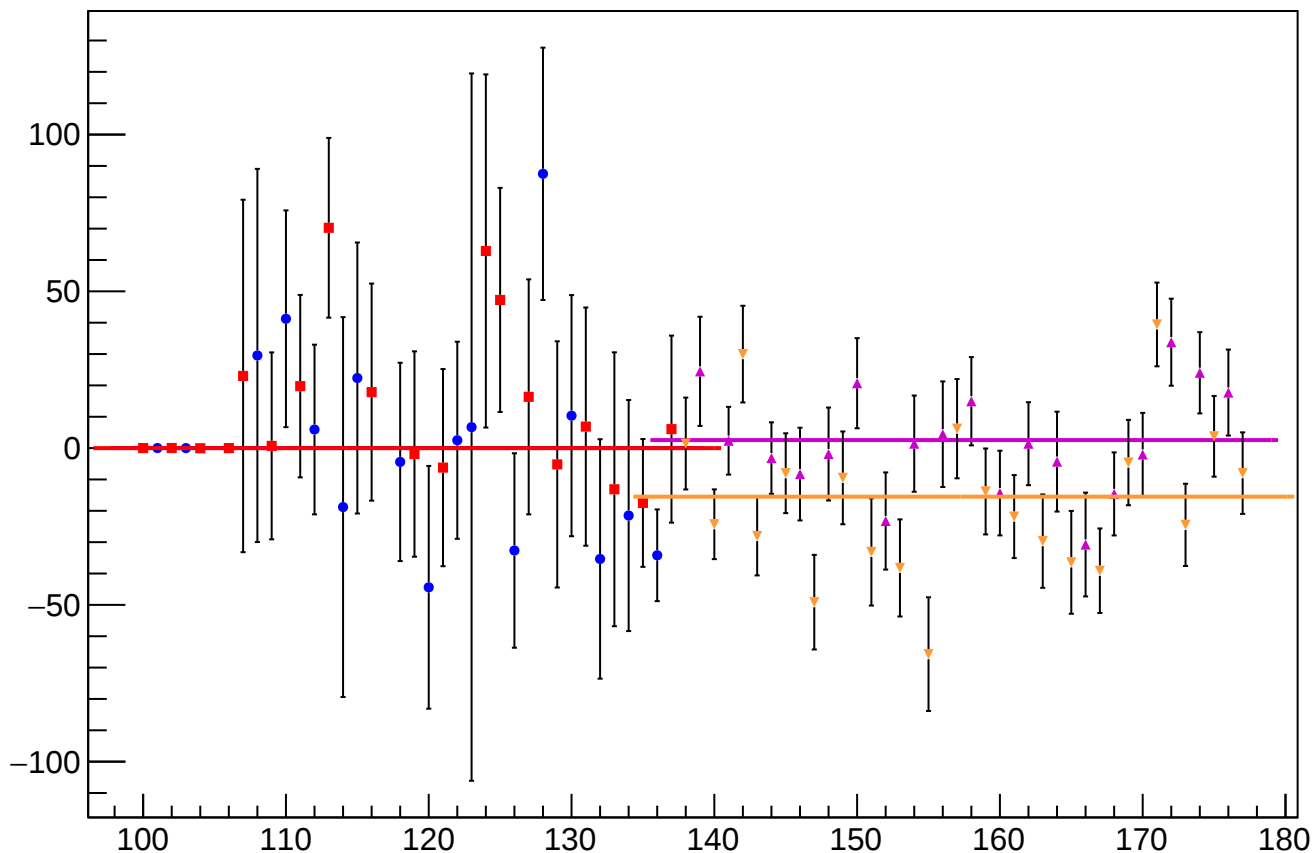
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2186.908+/-0.369 χ^2/NDF : 7004860.9/35

Out: 2197.650+/-0.358 χ^2/NDF : 6709888.0/39

All: 2192.434+/-0.257 χ^2/NDF : 13715185.0/78

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -15.490 ± 3.063 $\chi^2/\text{NDF}: 56.4/20$

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

Left In: 2.559 ± 3.209 $\chi^2/\text{NDF}: 24.3/18$

Left: -6.883 ± 2.216 $\chi^2/\text{NDF}: 97.2/39$

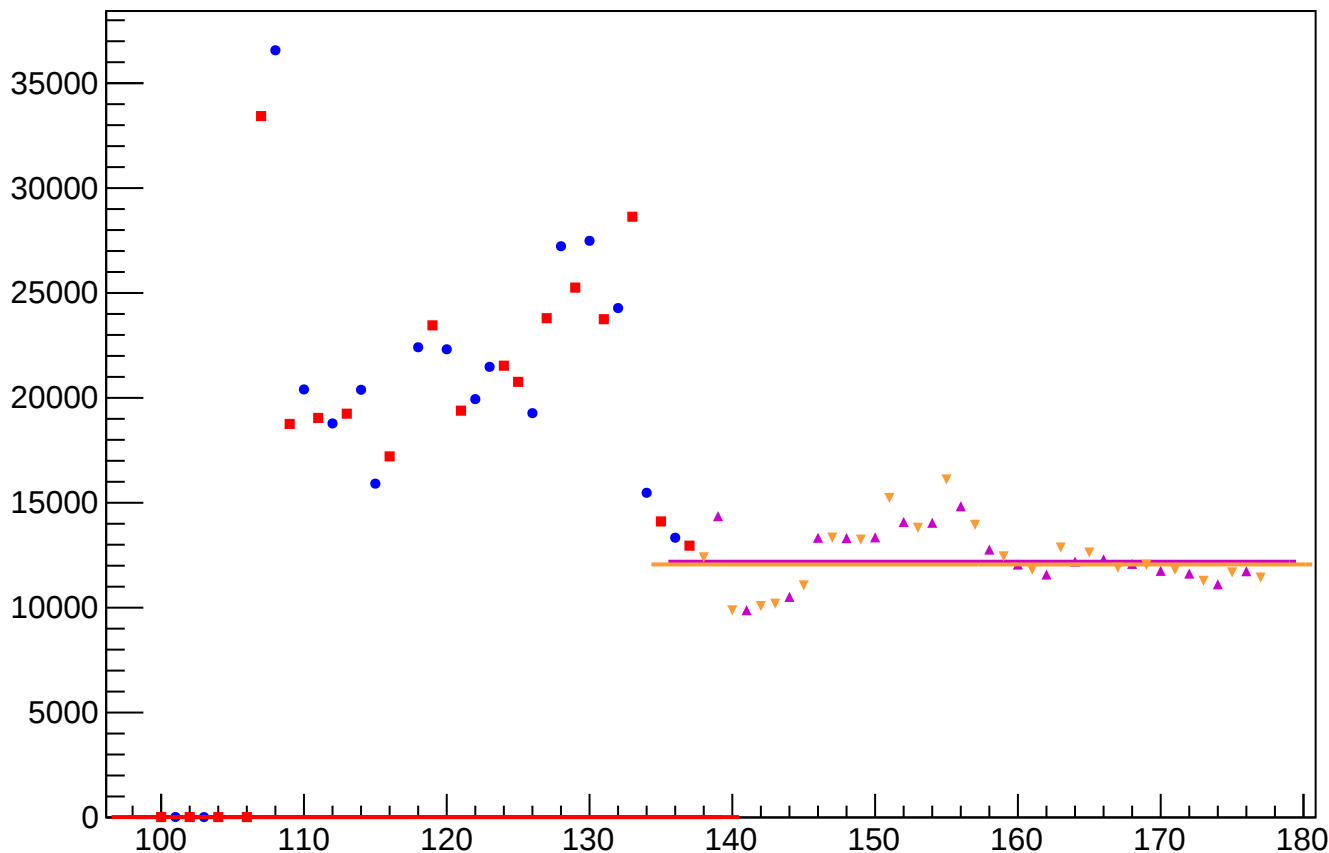
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.5/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 41.0/35$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 97.8/39$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 139.4/75$

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 12059.973 $\pm$ 2.166 χ^2 /NDF:443085.3/20

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

Left In: 12189.149 $\pm$ 2.269 χ^2 /NDF:340106.7/18

Left: 12121.567 $\pm$ 1.567 χ^2 /NDF: 784887.9/39

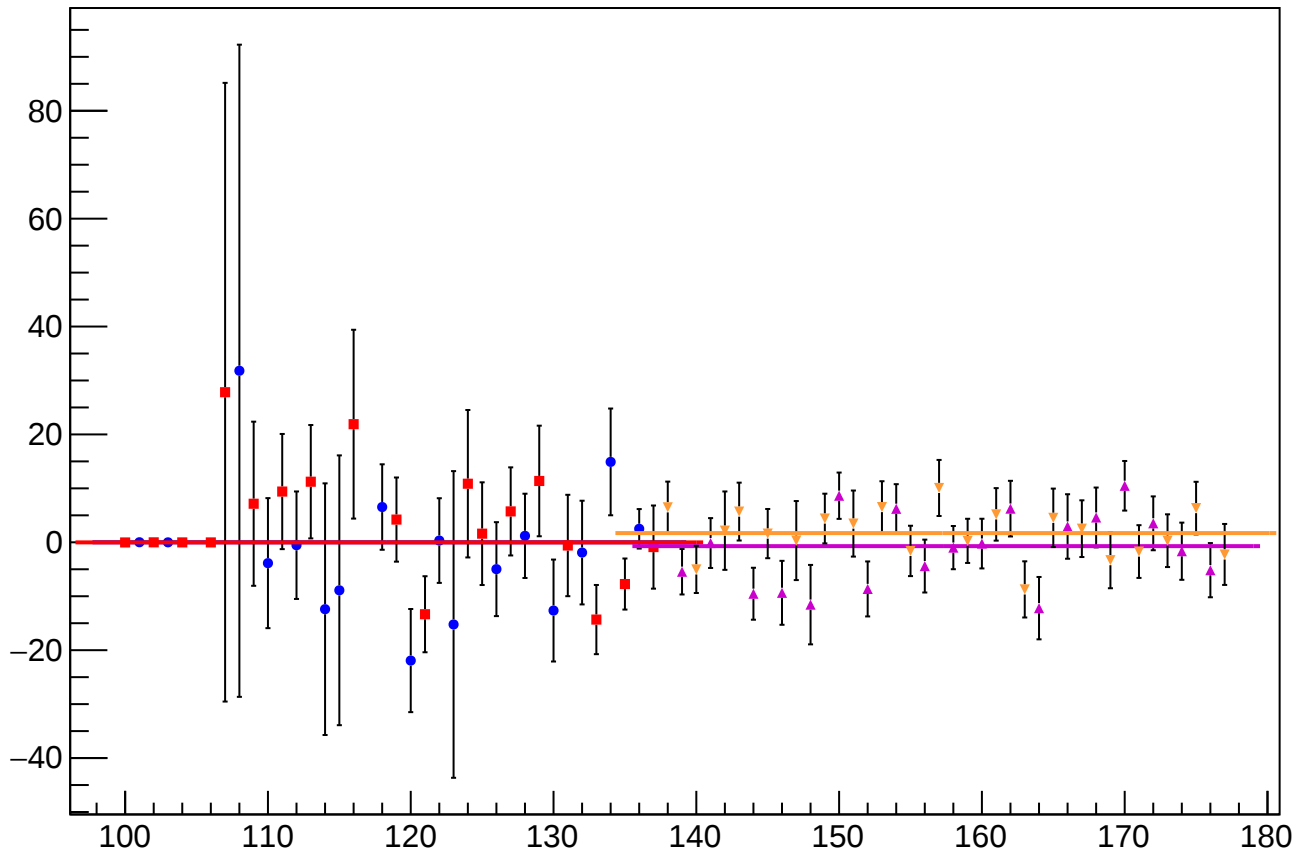
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.997 $\pm$ 0.012 χ^2 /NDF:40097668.9/35

Out: 18.643 $\pm$ 0.011 χ^2 /NDF:42459031.0/39

All: 18.807 $\pm$ 0.008 χ^2 /NDF: 82557148.3/75

diff_cav4bY_mean vs Slug, Sign Corrected



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

Left Out: 1.711 ± 1.104 $\chi^2/\text{NDF}: 16.3/20$

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

Left In: -0.711 ± 1.136 $\chi^2/\text{NDF}: 33.5/18$

Left: 0.533 ± 0.792 $\chi^2/\text{NDF}: 52.2/39$

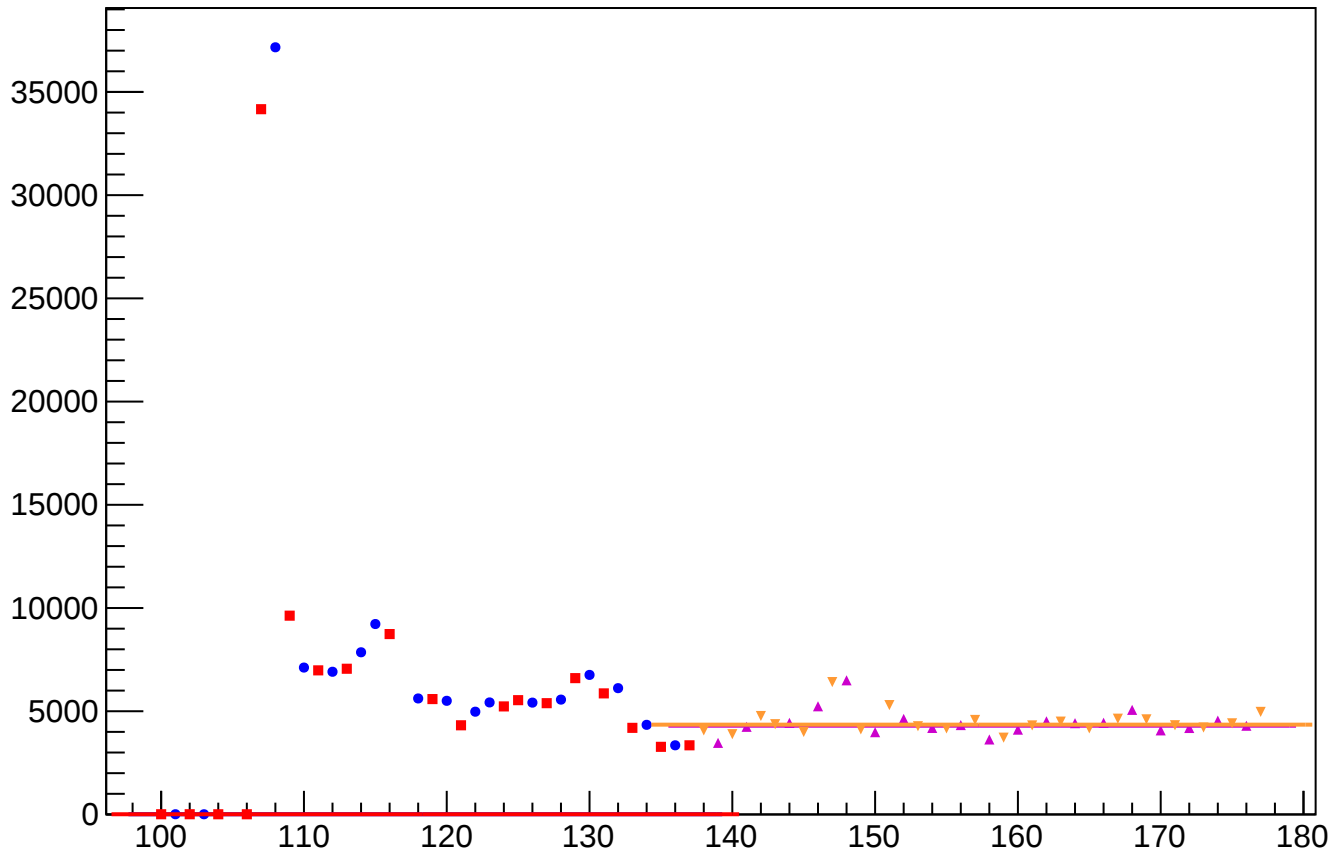
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 46.9/35$

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 37.4/39$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 85.7/75$

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4349.941+/-0.781 χ^2/NDF :355047.8/20

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

Left In: 4298.612+/-0.803 χ^2/NDF :441350.6/18

Left: 4324.989+/-0.560 χ^2/NDF : 798498.5/39

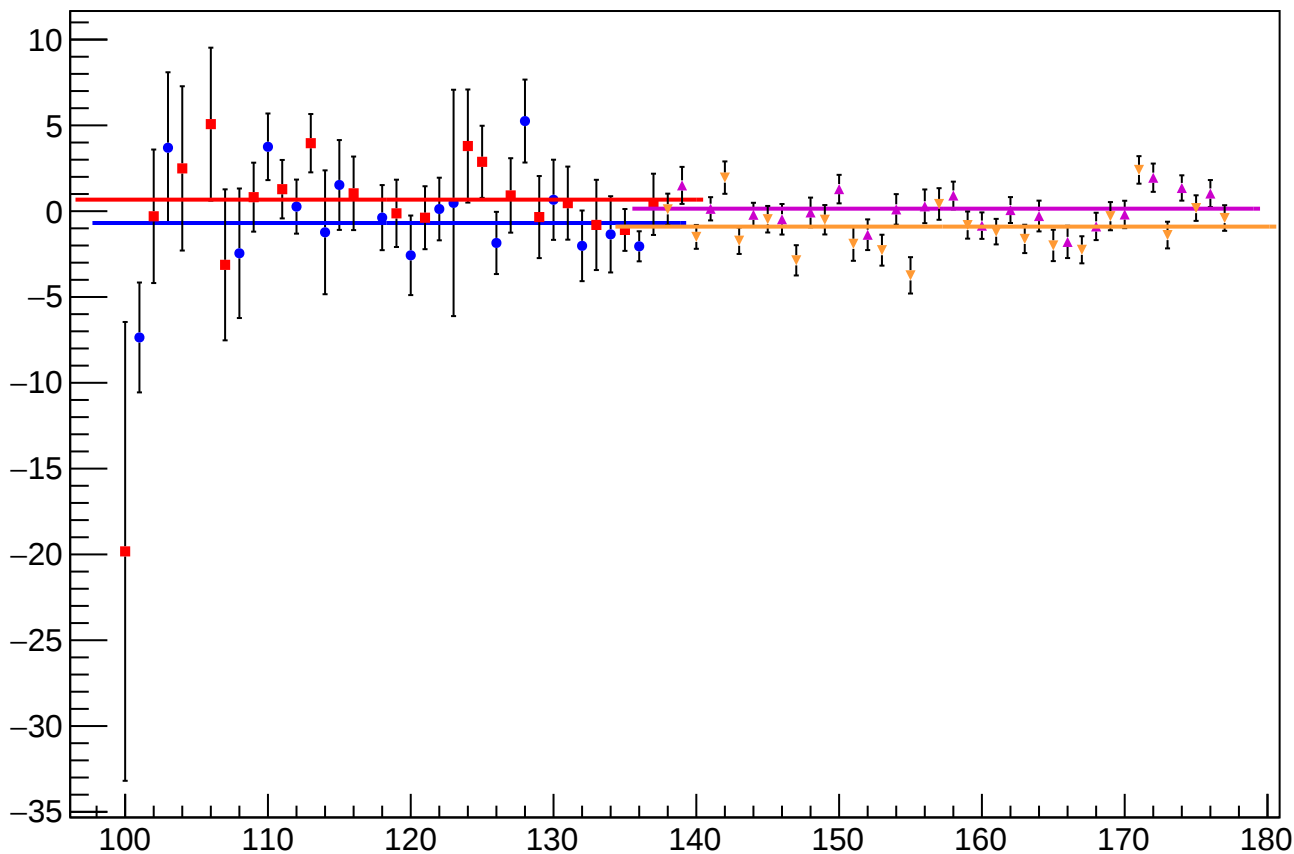
Right: 9.894+/-0.004 χ^2/NDF : 22274609.0/35

In: 10.221+/-0.007 χ^2/NDF :40083577.4/35

Out: 10.121+/-0.006 χ^2/NDF :42398996.2/39

All: 10.168+/-0.004 χ^2/NDF : 82482699.1/75

diff_cav4cX_mean vs Slug, Sign Corrected



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

Left Out: -0.899 ± 0.181 χ^2/NDF : 56.1/20

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

Left In: 0.146 ± 0.189 χ^2/NDF : 24.8/18

Left: -0.399 ± 0.130 χ^2/NDF : 96.9/39

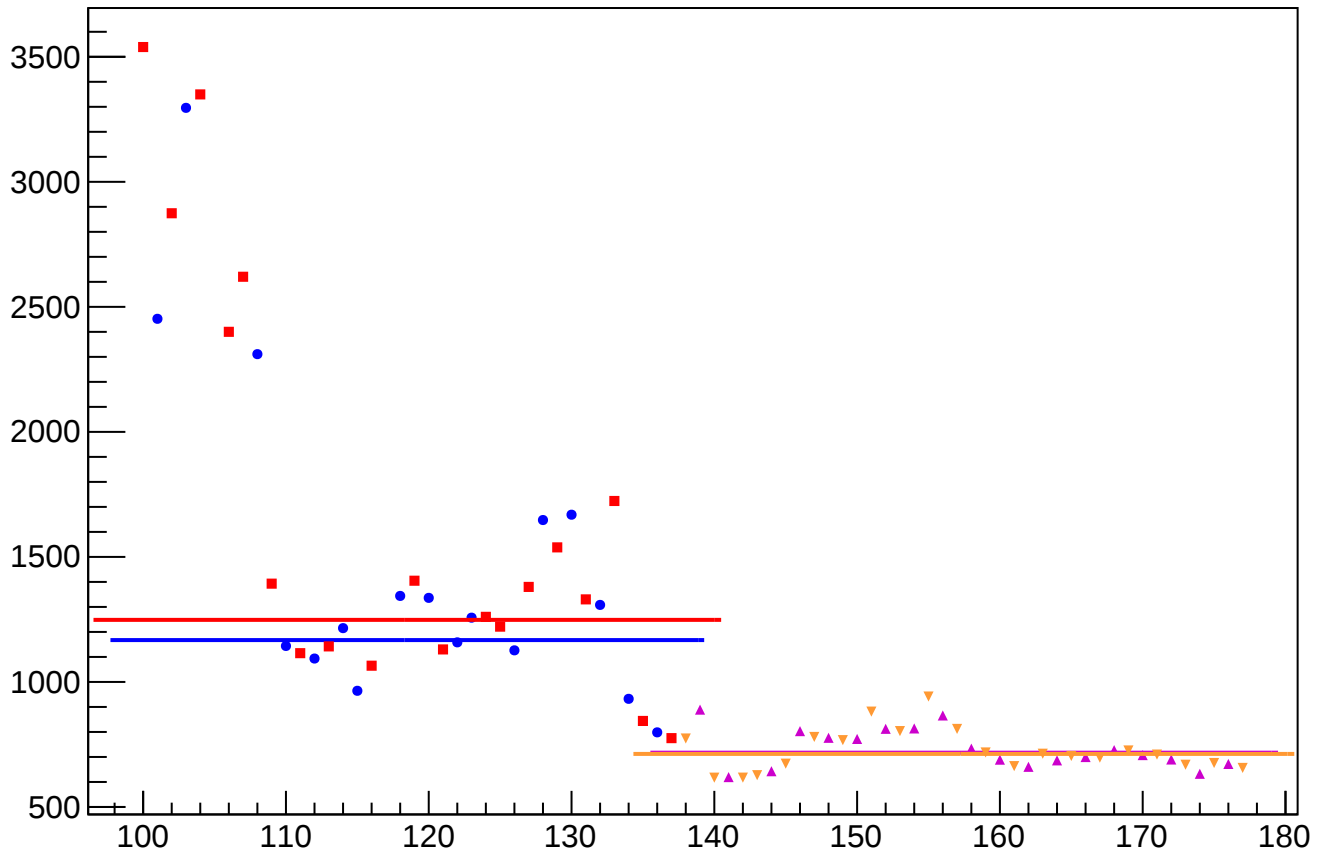
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: 0.035 ± 0.176 χ^2/NDF : 49.9/35

Out: -0.719 ± 0.170 χ^2/NDF : 78.1/39

All: -0.354 ± 0.122 χ^2/NDF : 137.5/75

diff_cav4cX_rms vs Slug, Sign Corrected



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

Left Out: 712.170 $\pm$ 0.128 χ^2 /NDF: 344800.1/20

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

Left In: 717.146 $\pm$ 0.133 χ^2 /NDF: 297902.6/18

Left: 714.550 $\pm$ 0.092 χ^2 /NDF: 643429.2/39

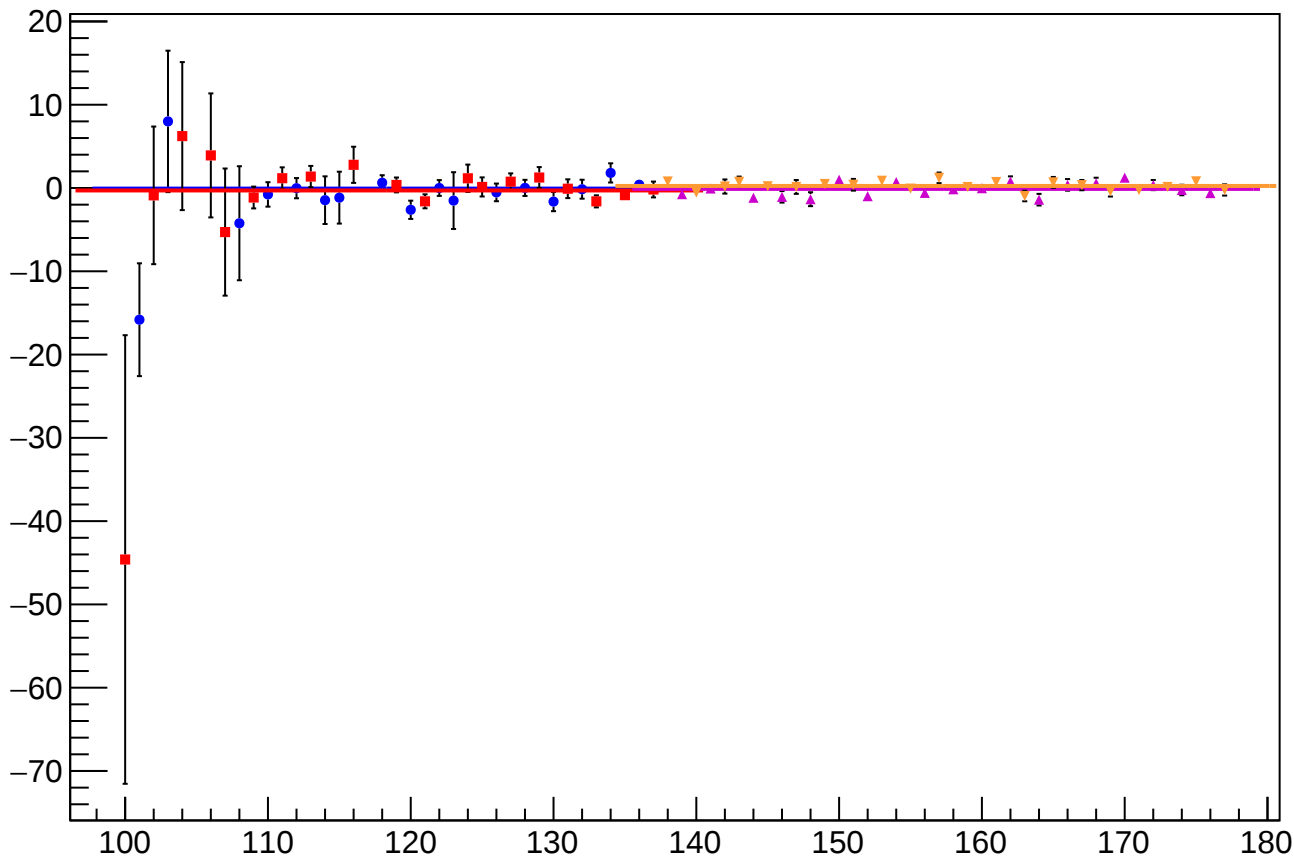
Right: 1206.306 $\pm$ 0.246 χ^2 /NDF: 3259405.5/35

In: 776.870 $\pm$ 0.124 χ^2 /NDF: 3388226.9/35

Out: 773.854 $\pm$ 0.120 χ^2 /NDF: 4027763.5/39

All: 775.311 $\pm$ 0.086 χ^2 /NDF: 7416295.1/75

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.247 ± 0.132 χ^2/NDF : 16.0/20

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

Left In: -0.107 ± 0.136 χ^2/NDF : 33.0/18

Left: 0.075 ± 0.095 χ^2/NDF : 52.4/39

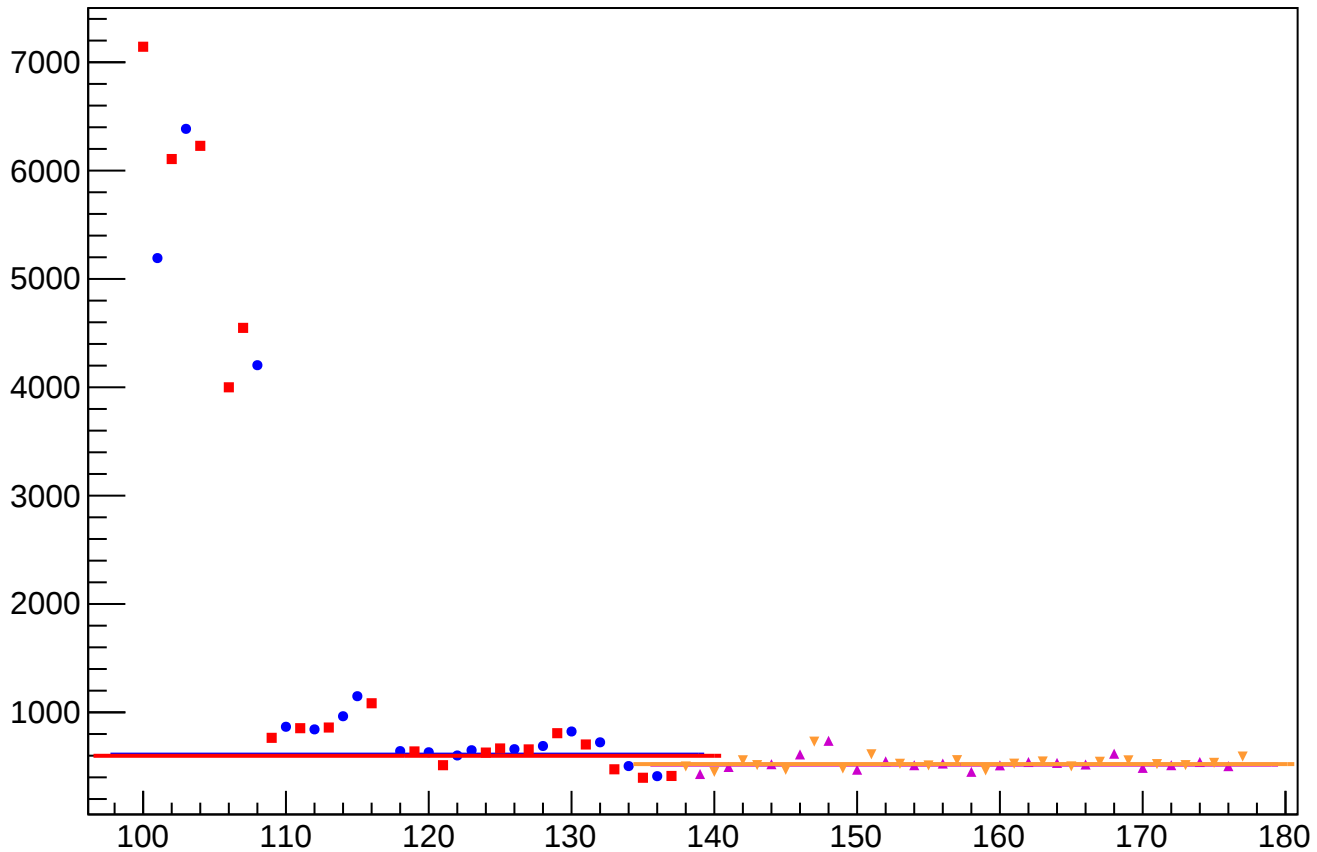
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.100 ± 0.122 χ^2/NDF : 52.2/35

Out: 0.138 ± 0.118 χ^2/NDF : 39.6/39

All: 0.022 ± 0.085 χ^2/NDF : 93.8/75

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 522.257 $\pm$ 0.094 χ^2 /NDF: 304542.3/20

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

Left In: 517.361 $\pm$ 0.096 χ^2 /NDF: 350967.2/18

Left: 519.881 $\pm$ 0.067 χ^2 /NDF: 656835.7/39

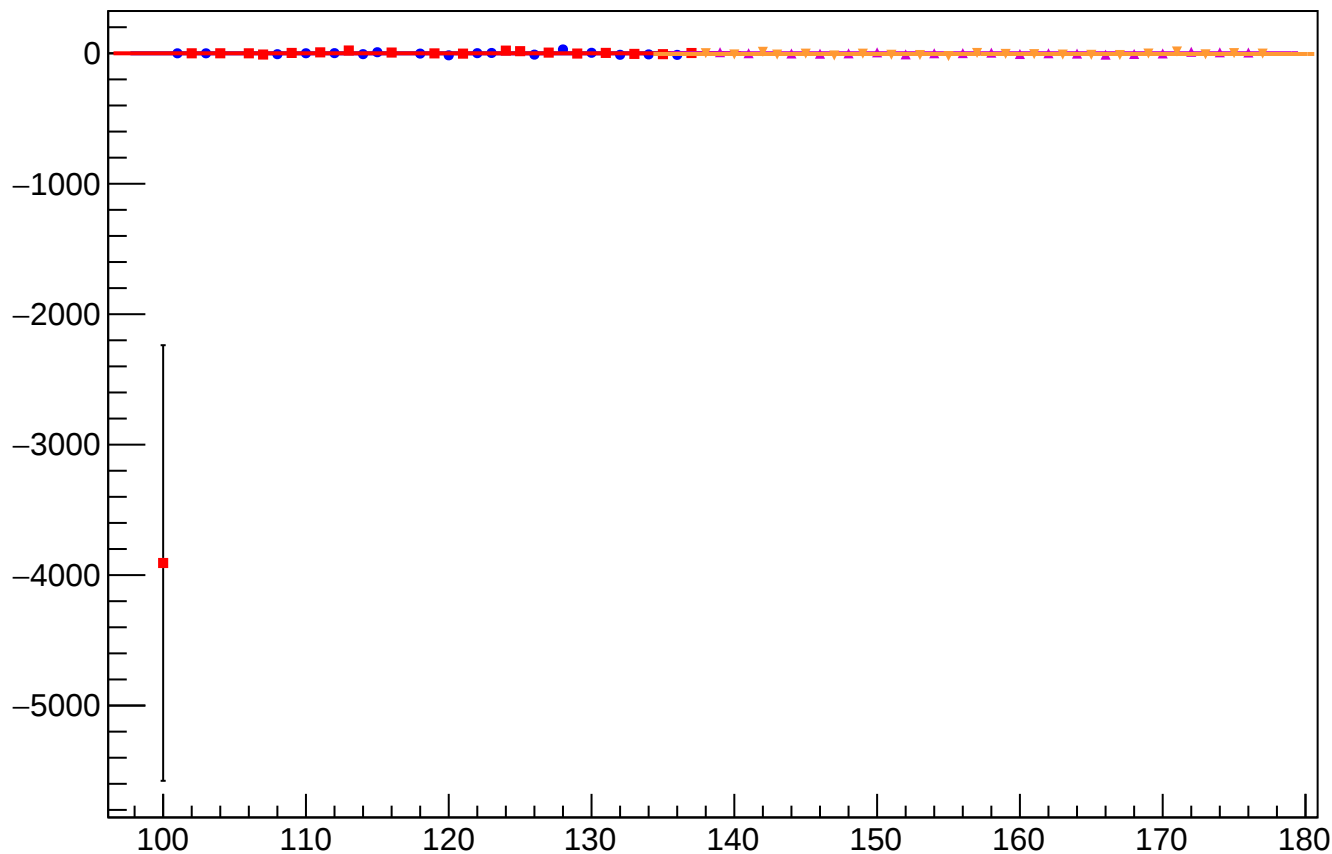
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 536.312 $\pm$ 0.086 χ^2 /NDF: 3675195.9/35

Out: 537.702 $\pm$ 0.084 χ^2 /NDF: 3992083.9/39

All: 537.026 $\pm$ 0.060 χ^2 /NDF: 7667413.7/75

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -5.182 ± 1.050 χ^2/NDF : 56.0/20

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

Left In: 0.902 ± 1.099 χ^2/NDF : 25.0/18

Left: -2.277 ± 0.759 χ^2/NDF : 97.0/39

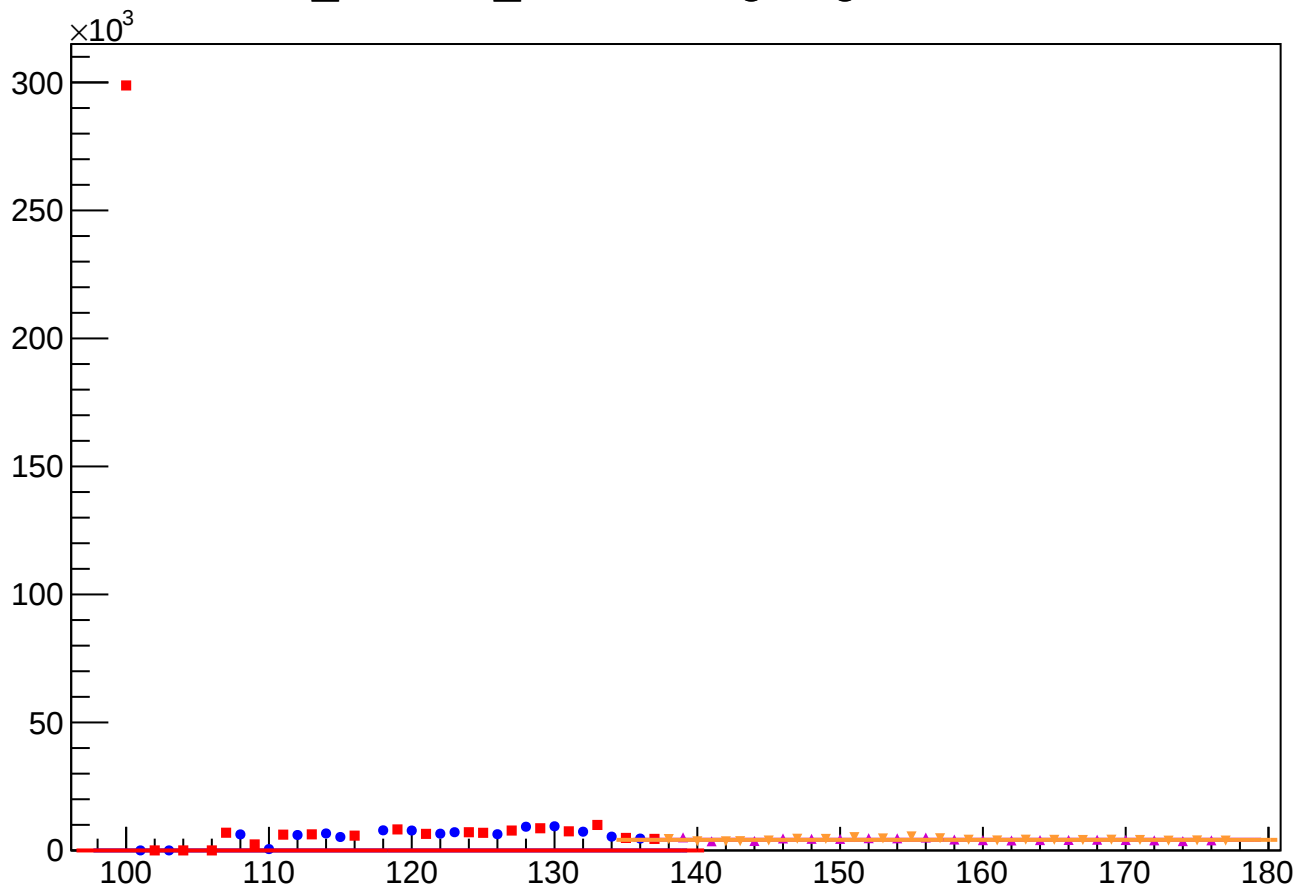
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.021 ± 0.021 χ^2/NDF : 41.3/35

Out: 0.025 ± 0.020 χ^2/NDF : 98.5/39

All: 0.003 ± 0.014 χ^2/NDF : 142.3/75

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4141.549 ± 0.743 $\chi^2/\text{NDF}: 366143.3/20$

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

Left In: 4177.685 ± 0.777 $\chi^2/\text{NDF}: 307881.6/18$

Left: 4158.802 ± 0.537 $\chi^2/\text{NDF}: 675155.1/39$

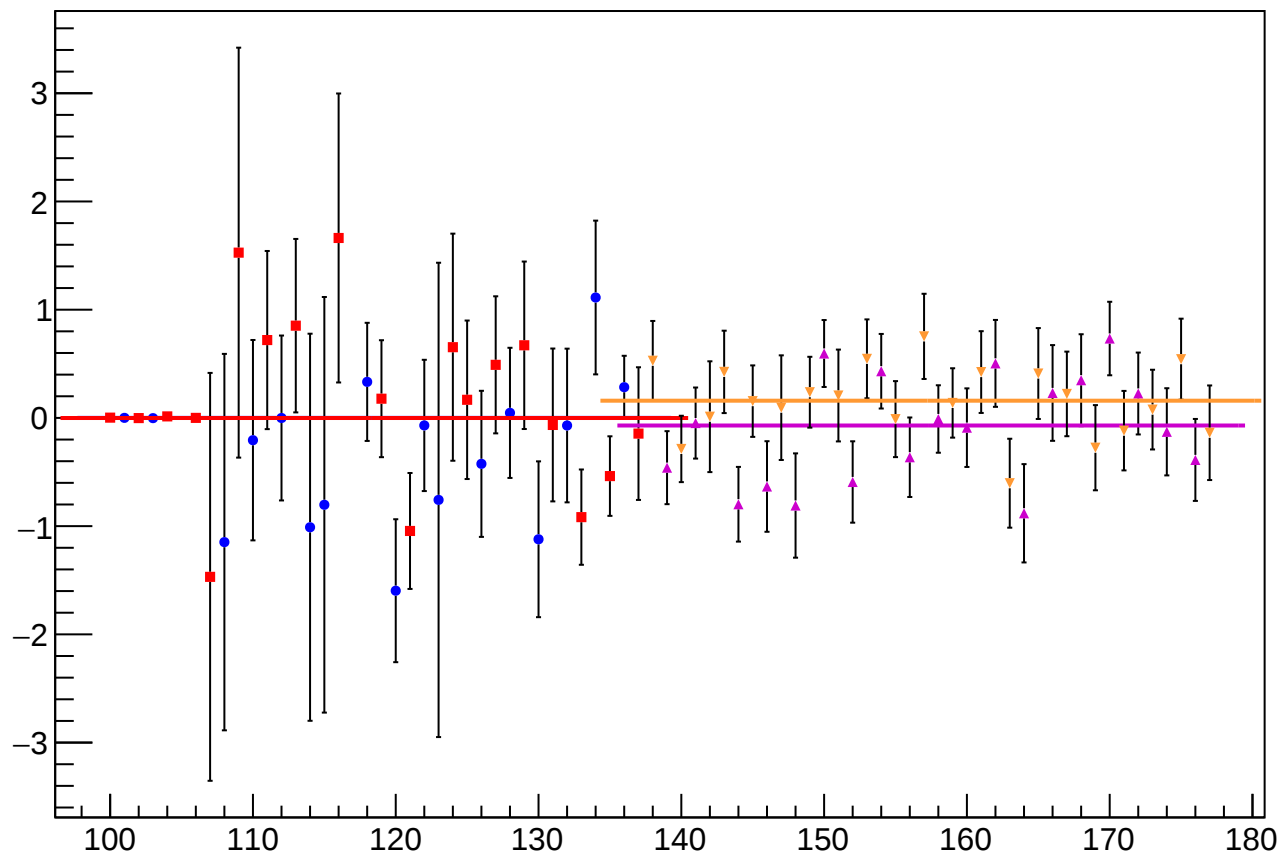
Right: 17.303 ± 0.010 $\chi^2/\text{NDF}: 21322069.2/35$

In: 18.830 ± 0.015 $\chi^2/\text{NDF}: 39467424.5/35$

Out: 18.730 ± 0.014 $\chi^2/\text{NDF}: 42013361.0/39$

All: 18.778 ± 0.010 $\chi^2/\text{NDF}: 81480809.7/75$

diff_cav4dY_mean vs Slug, Sign Corrected



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

Left Out: 0.159 $\pm$ 0.082 χ^2/NDF : 15.1/20

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

Left In: -0.070 $\pm$ 0.085 χ^2/NDF : 32.9/18

Left: 0.048 $\pm$ 0.059 χ^2/NDF : 51.7/39

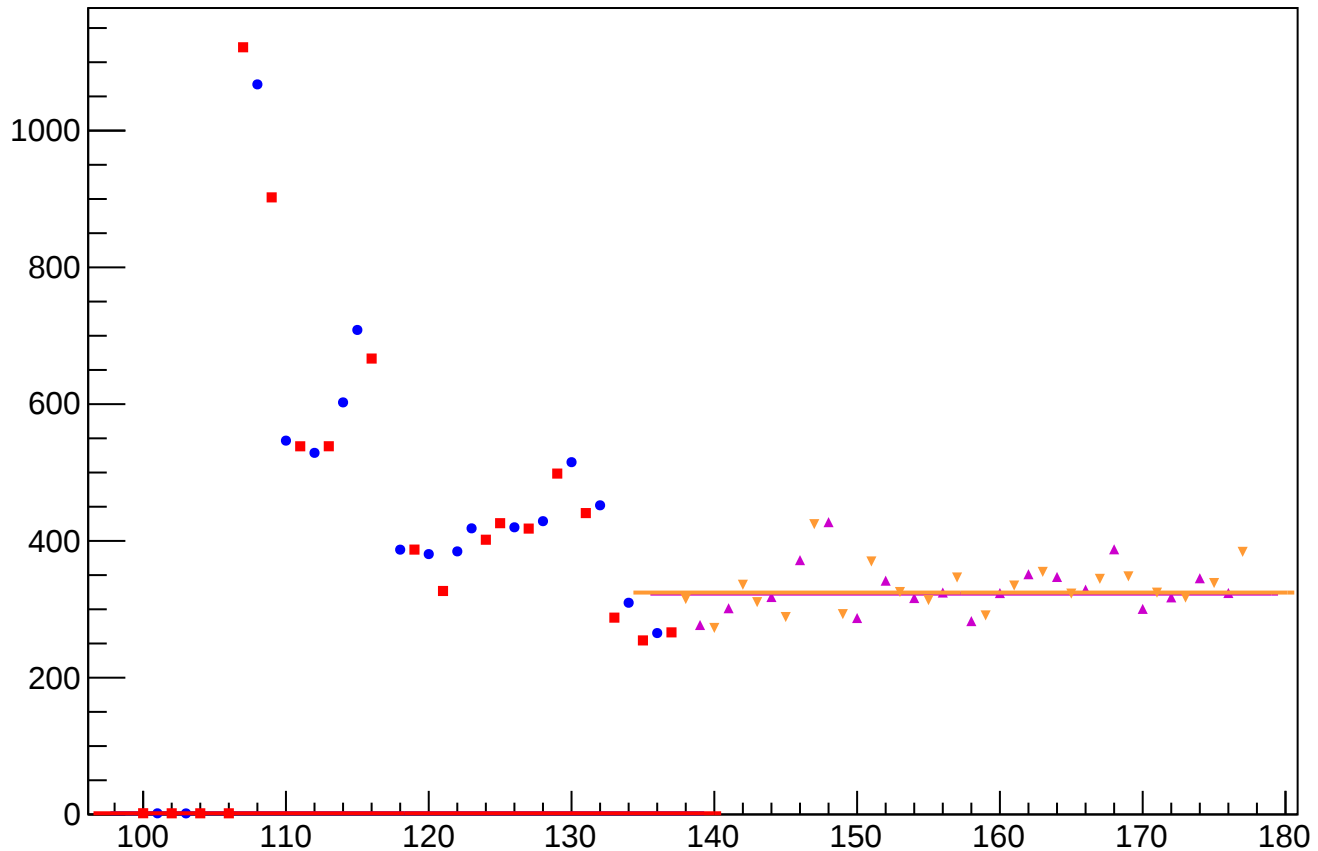
Right: -0.000 $\pm$ 0.001 χ^2/NDF : 31.8/35

In: 0.000 $\pm$ 0.002 χ^2/NDF : 47.4/35

Out: -0.001 $\pm$ 0.002 χ^2/NDF : 36.8/39

All: -0.000 $\pm$ 0.001 χ^2/NDF : 84.2/75

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 324.468 ± 0.058 χ^2/NDF : 308096.6/20

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

Left In: 322.898 ± 0.060 χ^2/NDF : 310998.2/18

Left: 323.709 ± 0.042 χ^2/NDF : 619446.7/39

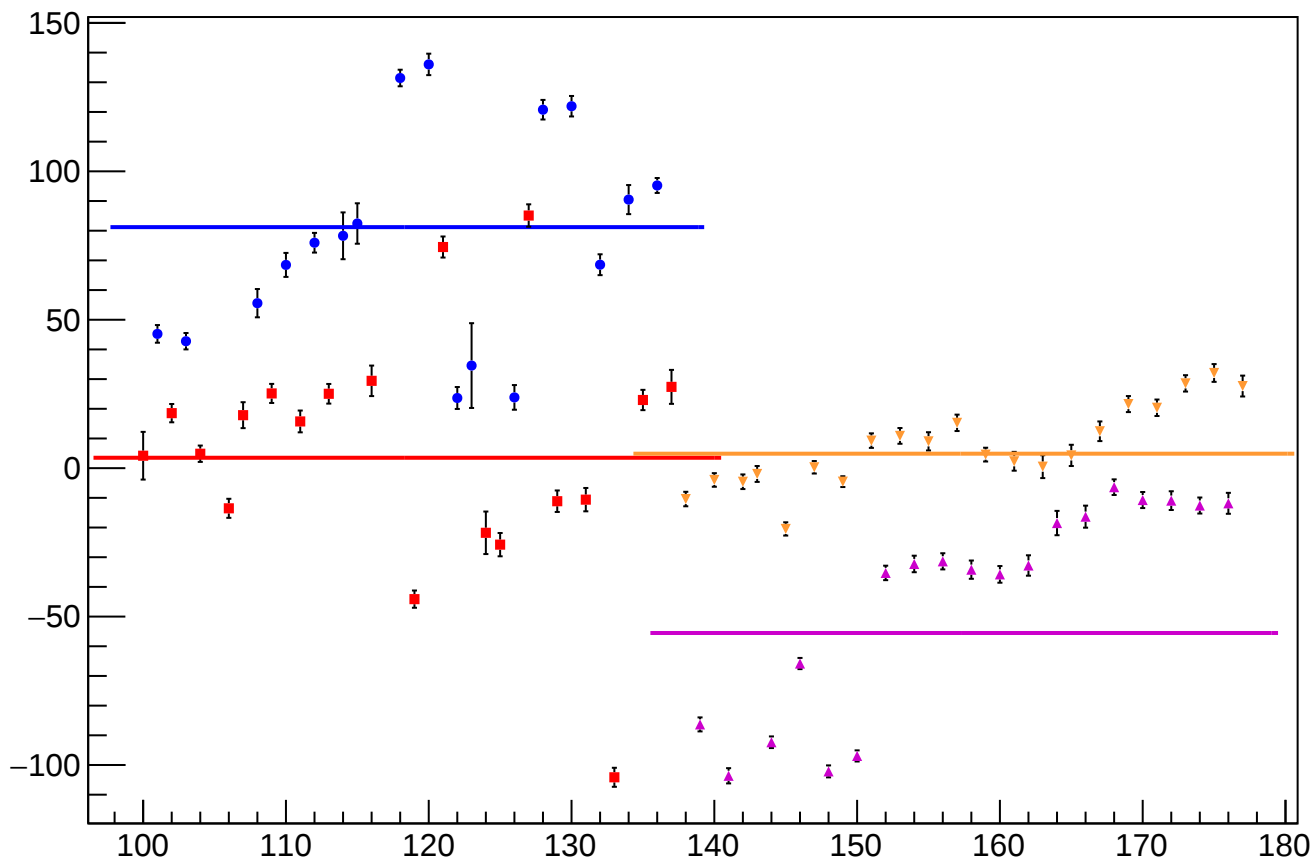
Right: 1.714 ± 0.001 χ^2/NDF : 21797153.2/35

In: 1.881 ± 0.001 χ^2/NDF : 39868369.6/35

Out: 1.907 ± 0.001 χ^2/NDF : 41798273.8/39

All: 1.895 ± 0.001 χ^2/NDF : 81666819.5/75

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 4.877+/-0.573 χ^2/NDF : 534.6/20

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

Left In: -55.528+/-0.589 χ^2/NDF : 3702.8/18

Left: -24.476+/-0.411 χ^2/NDF : 9642.4/39

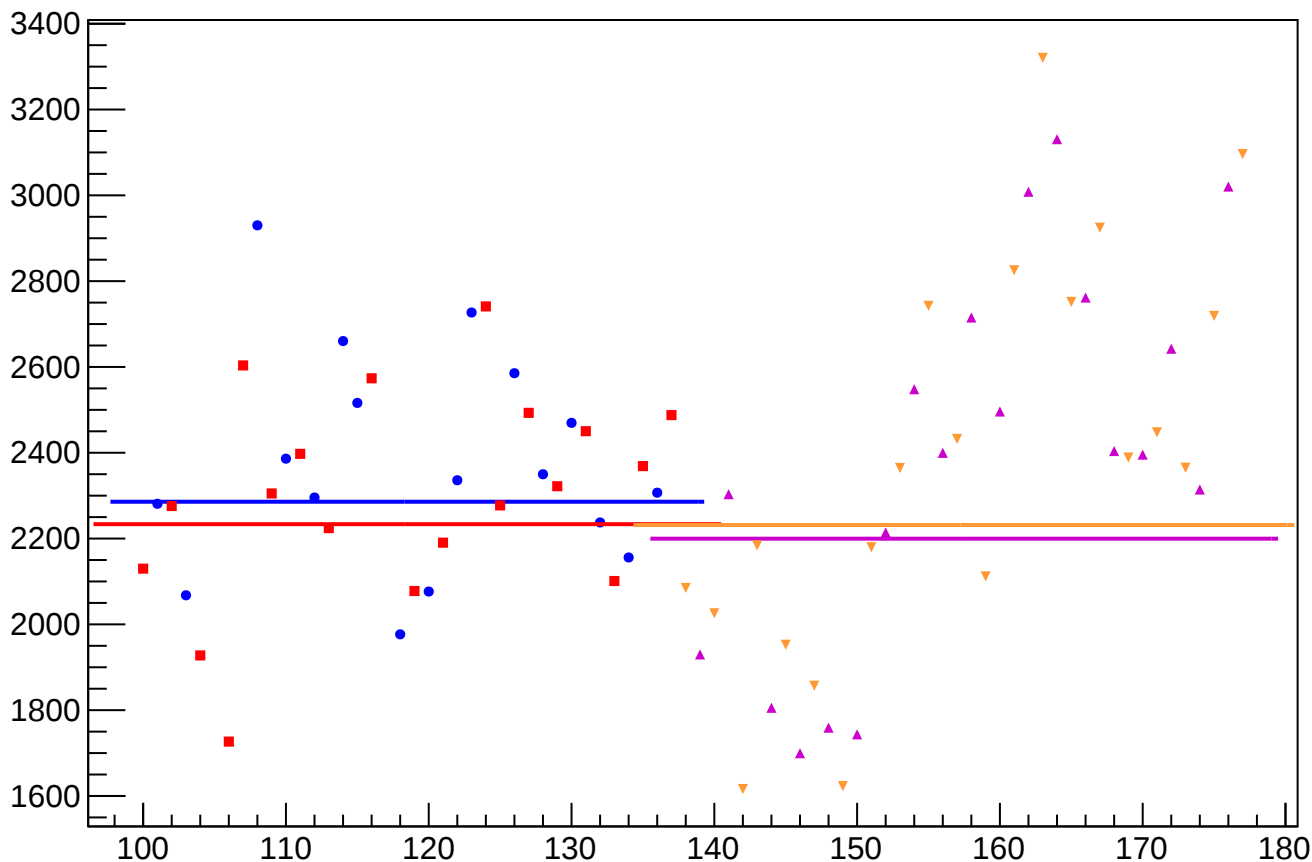
Right: 40.415+/-0.610 χ^2/NDF : 8348.3/35

In: -13.593+/-0.491 χ^2/NDF : 21935.1/35

Out: 4.445+/-0.474 χ^2/NDF : 3135.4/39

All: -4.259+/-0.341 χ^2/NDF : 25770.2/75

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2231.575 +/- 0.405 χ^2/NDF : 1101782.0/20

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

Left In: 2199.709 +/- 0.417 χ^2/NDF : 1018187.3/18

Left: 2216.090 +/- 0.290 χ^2/NDF : 2122977.6/39

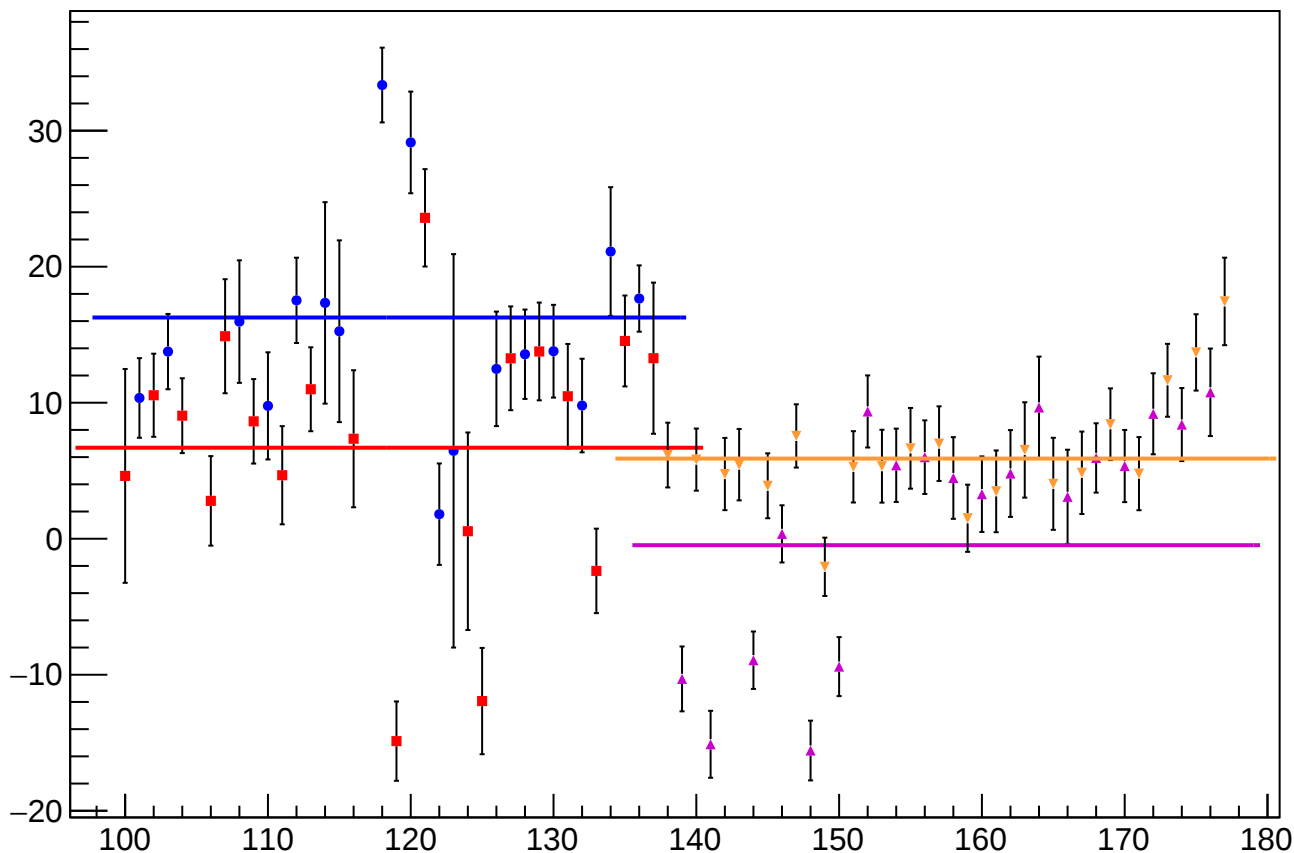
Right: 2258.395 +/- 0.432 χ^2/NDF : 259847.1/35

In: 2226.130 +/- 0.347 χ^2/NDF : 1140641.5/35

Out: 2232.198 +/- 0.335 χ^2/NDF : 1248638.0/39

All: 2229.270 +/- 0.241 χ^2/NDF : 2389437.9/75

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

Left Out: 5.894 ± 0.581 $\chi^2/\text{NDF}: 46.1/20$

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

Left In: -0.474 ± 0.601 $\chi^2/\text{NDF}: 217.3/18$

Left: 2.819 ± 0.418 $\chi^2/\text{NDF}: 321.5/39$

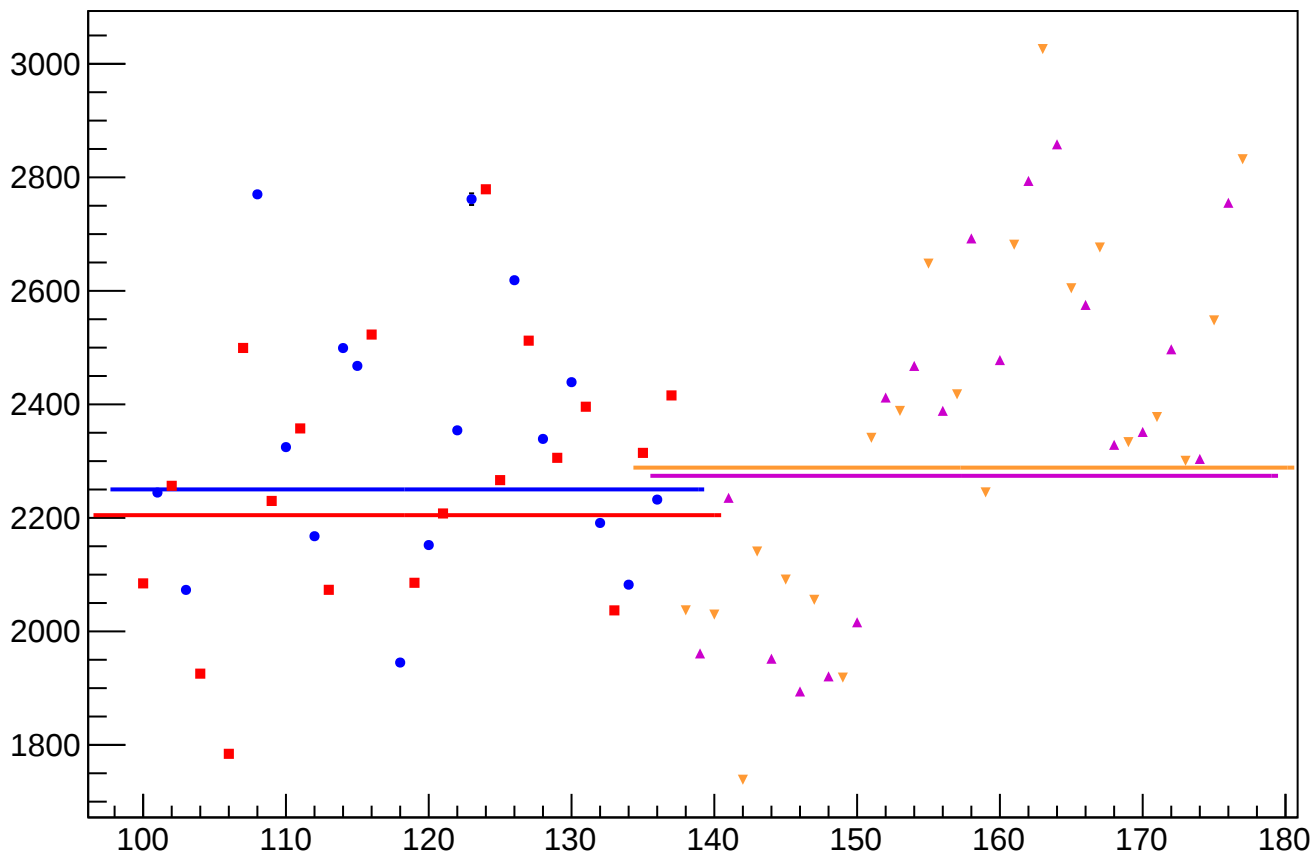
Right: 11.249 ± 0.601 $\chi^2/\text{NDF}: 278.0/35$

In: 4.925 ± 0.495 $\chi^2/\text{NDF}: 548.1/35$

Out: 6.156 ± 0.476 $\chi^2/\text{NDF}: 180.7/39$

All: 5.564 ± 0.343 $\chi^2/\text{NDF}: 732.0/75$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

Left Out: 2288.563+/-0.411 χ^2/NDF : 521237.1/20

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

Left In: 2274.123+/-0.425 χ^2/NDF : 471617.8/18

Left: 2281.591+/-0.295 χ^2/NDF : 993451.3/39

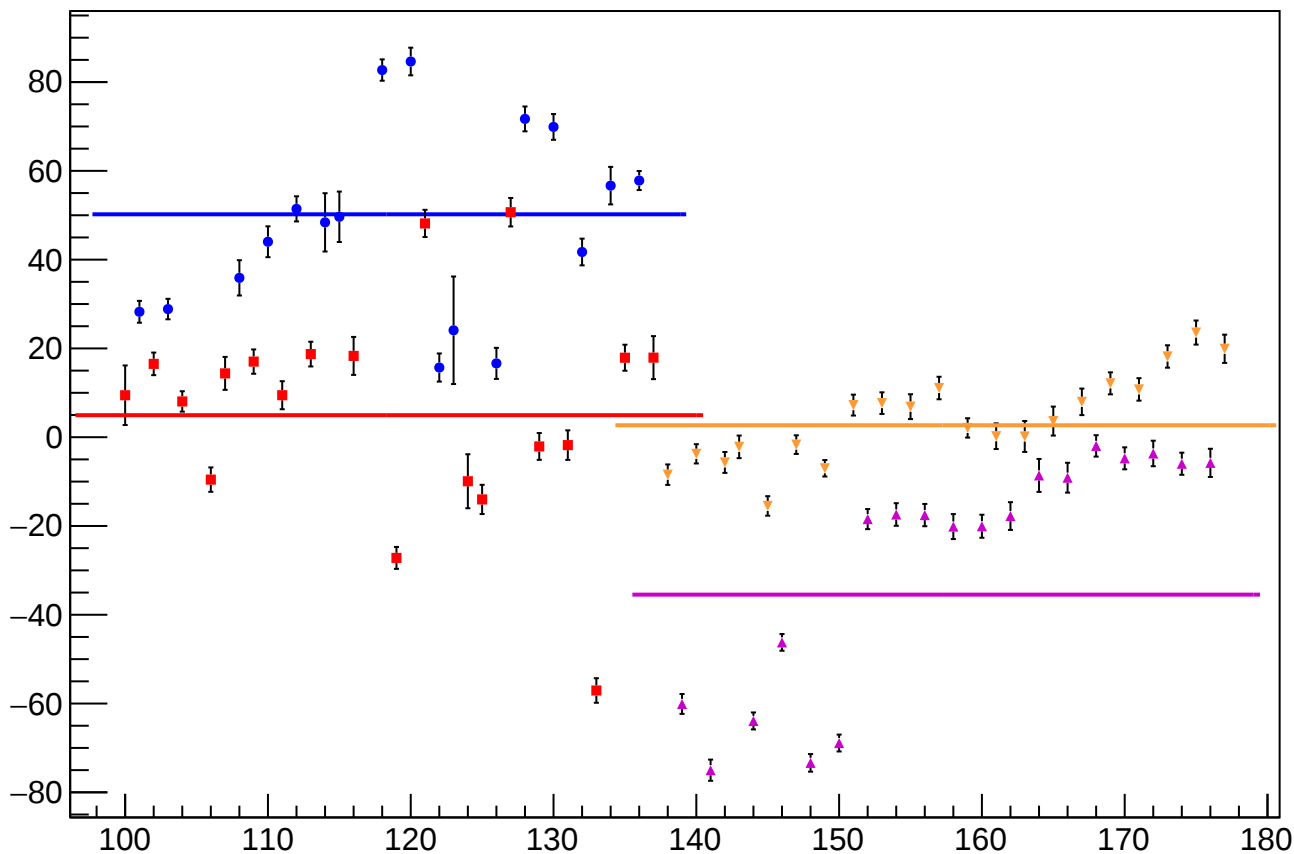
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

In: 2266.399+/-0.350 χ^2/NDF : 570219.0/35

Out: 2261.044+/-0.337 χ^2/NDF : 661121.8/39

All: 2263.618+/-0.243 χ^2/NDF : 1231462.3/75

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: 2.693+/-0.541 χ^2/NDF :325.2/20

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

Left In: -35.466+/-0.557 χ^2/NDF :2389.1/18

Left: -15.818+/-0.388 χ^2/NDF : 5131.6/39

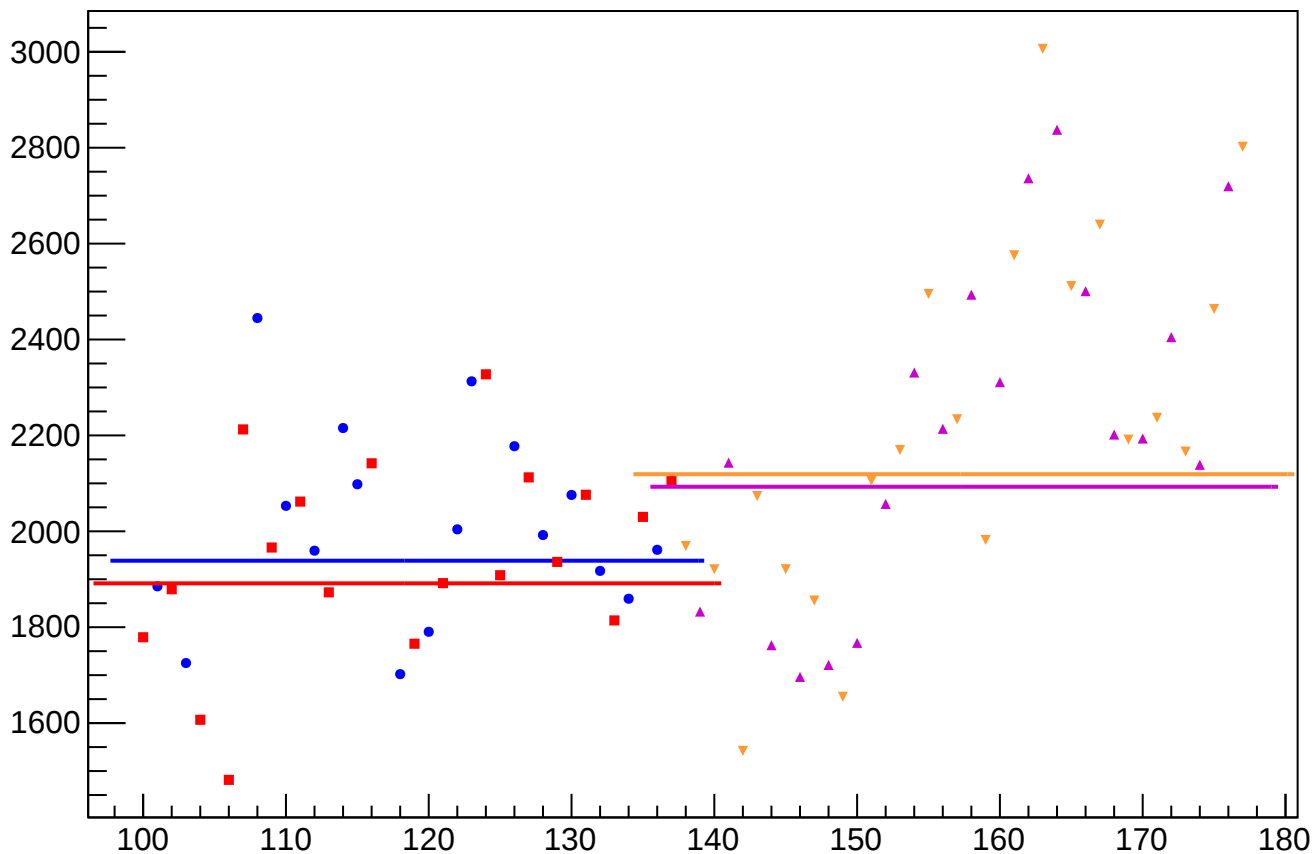
Right: 26.432+/-0.517 χ^2/NDF : 4002.4/35

In: -5.054+/-0.447 χ^2/NDF :11620.5/35

Out: 3.519+/-0.431 χ^2/NDF :1594.2/39

All: -0.607+/-0.310 χ^2/NDF : 13405.3/75

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.688 ± 0.531 $\chi^2/\text{NDF}: 100143.1/16$

Left Out: 2119.092 ± 0.382 $\chi^2/\text{NDF}: 768426.8/20$

Right Out: 1891.466 ± 0.504 $\chi^2/\text{NDF}: 146622.8/18$

Left In: 2092.917 ± 0.394 $\chi^2/\text{NDF}: 686699.1/18$

Left: 2106.395 ± 0.274 $\chi^2/\text{NDF}: 1457400.8/39$

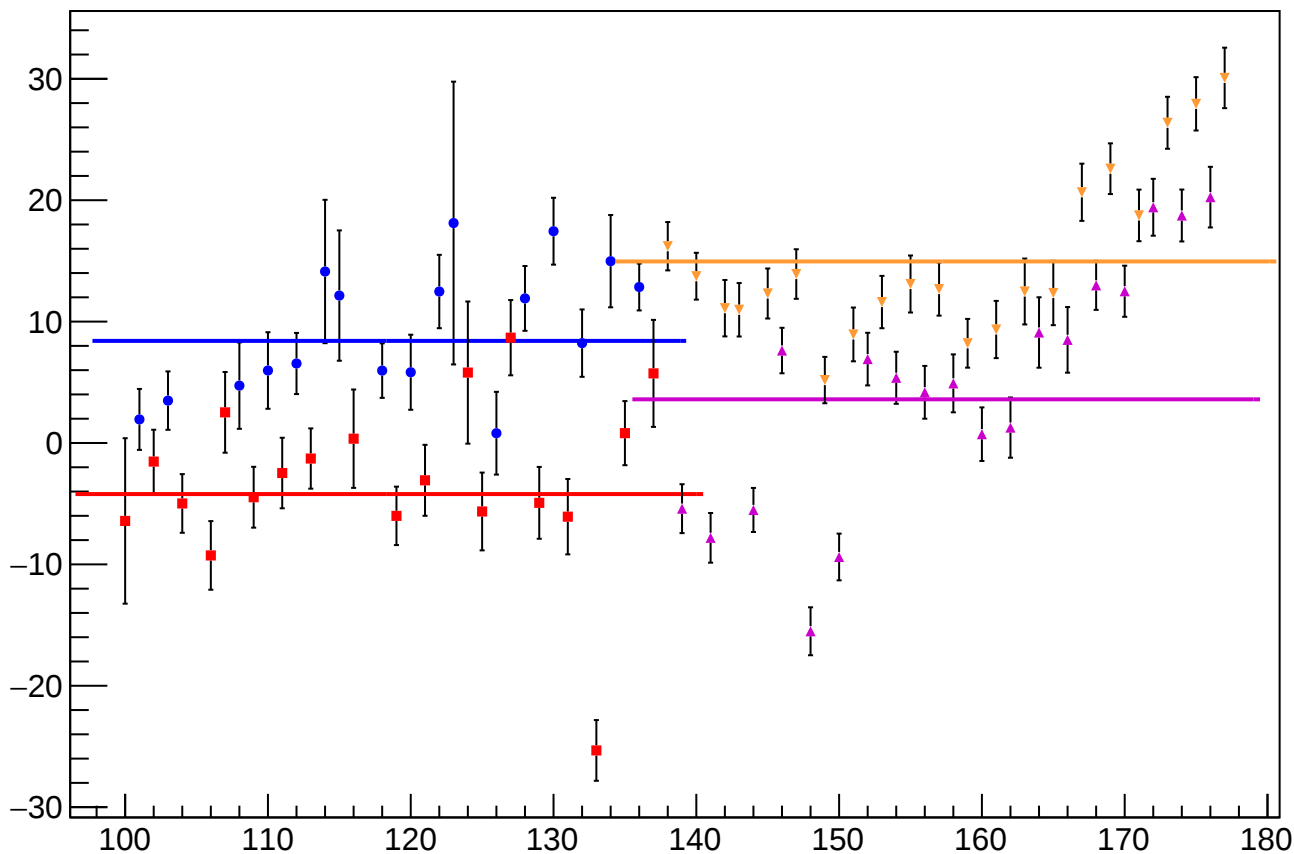
Right: 1913.873 ± 0.366 $\chi^2/\text{NDF}: 250923.8/35$

In: 2038.175 ± 0.316 $\chi^2/\text{NDF}: 841284.1/35$

Out: 2036.070 ± 0.305 $\chi^2/\text{NDF}: 1044396.5/39$

All: 2037.083 ± 0.219 $\chi^2/\text{NDF}: 1885703.5/75$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 14.955 ± 0.477 $\chi^2/\text{NDF}: 187.7/20$

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

Left In: 3.597 ± 0.496 $\chi^2/\text{NDF}: 412.5/18$

Left: 9.492 ± 0.344 $\chi^2/\text{NDF}: 872.8/39$

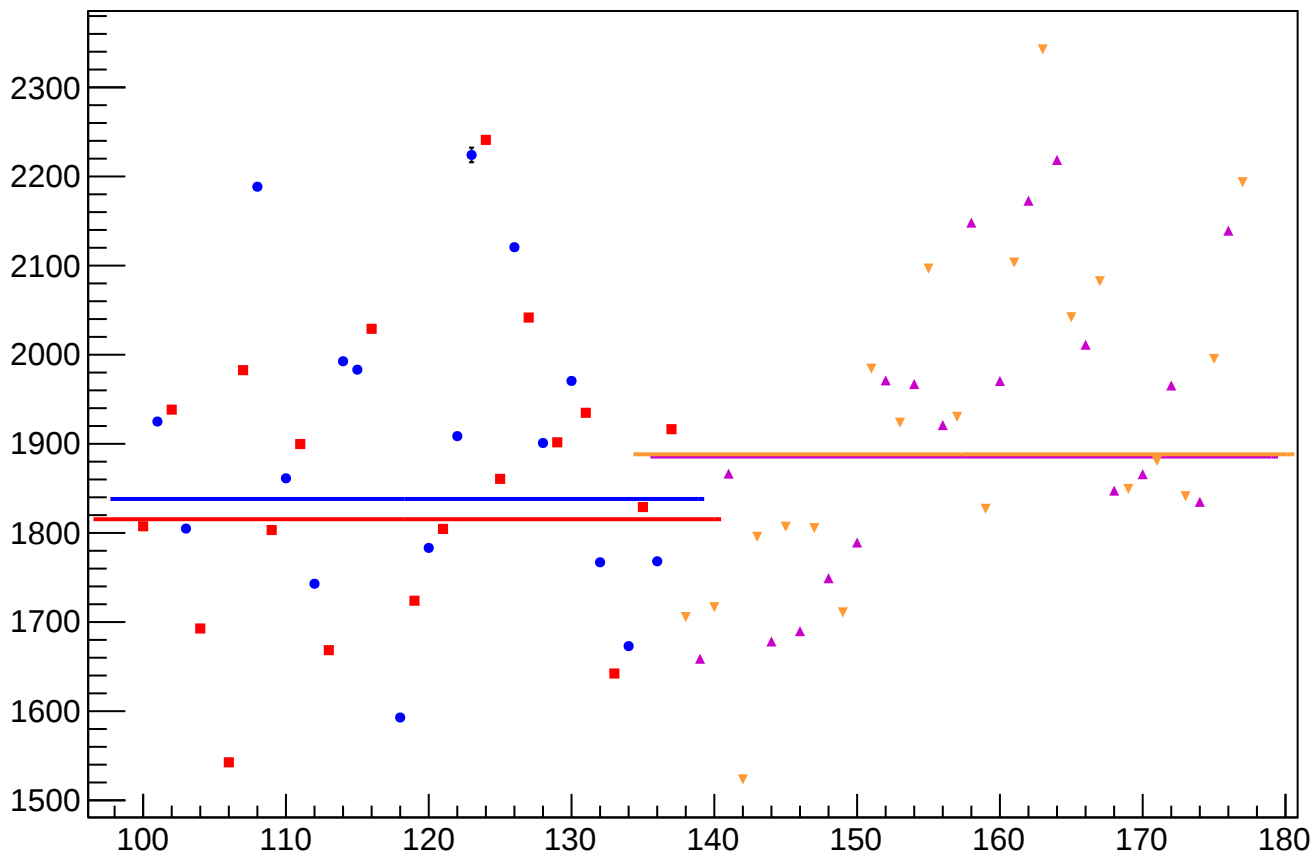
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 5.170 ± 0.407 $\chi^2/\text{NDF}: 487.9/35$

Out: 8.663 ± 0.391 $\chi^2/\text{NDF}: 830.5/39$

All: 6.985 ± 0.282 $\chi^2/\text{NDF}: 1356.7/75$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1888.254 $\pm$ 0.337 χ^2 /NDF: 261235.6/20

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

Left In: 1885.755 $\pm$ 0.350 χ^2 /NDF: 204163.1/18

Left: 1887.052 $\pm$ 0.243 χ^2 /NDF: 465425.1/39

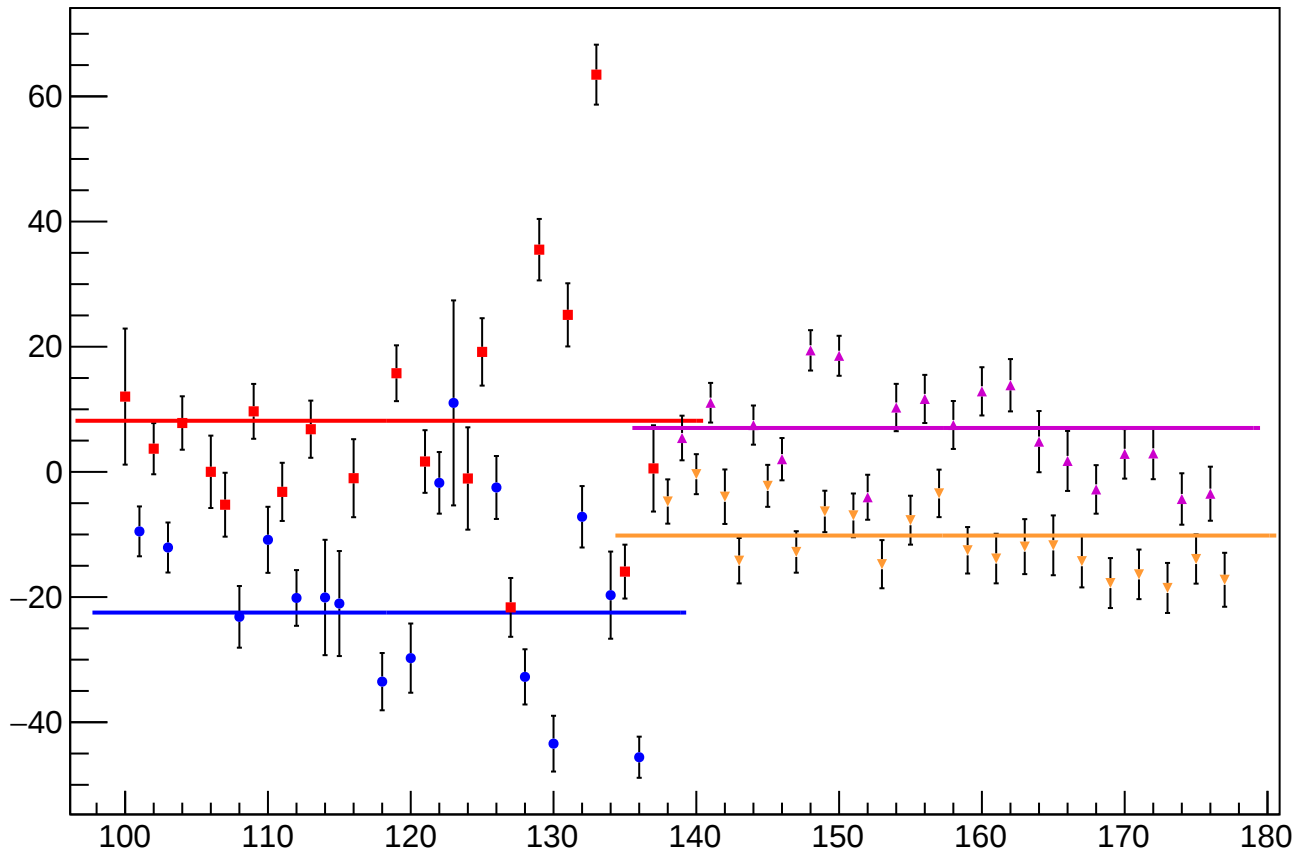
Right: 1826.303 $\pm$ 0.348 χ^2 /NDF: 171362.3/35

In: 1870.194 $\pm$ 0.288 χ^2 /NDF: 293075.3/35

Out: 1864.335 $\pm$ 0.276 χ^2 /NDF: 363964.9/39

All: 1867.150 $\pm$ 0.199 χ^2 /NDF: 657255.9/75

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

Left Out: -10.169 ± 0.828 χ^2/NDF : 45.0/20

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

Left In: 7.018 ± 0.858 χ^2/NDF : 71.9/18

Left: -1.885 ± 0.596 χ^2/NDF : 324.6/39

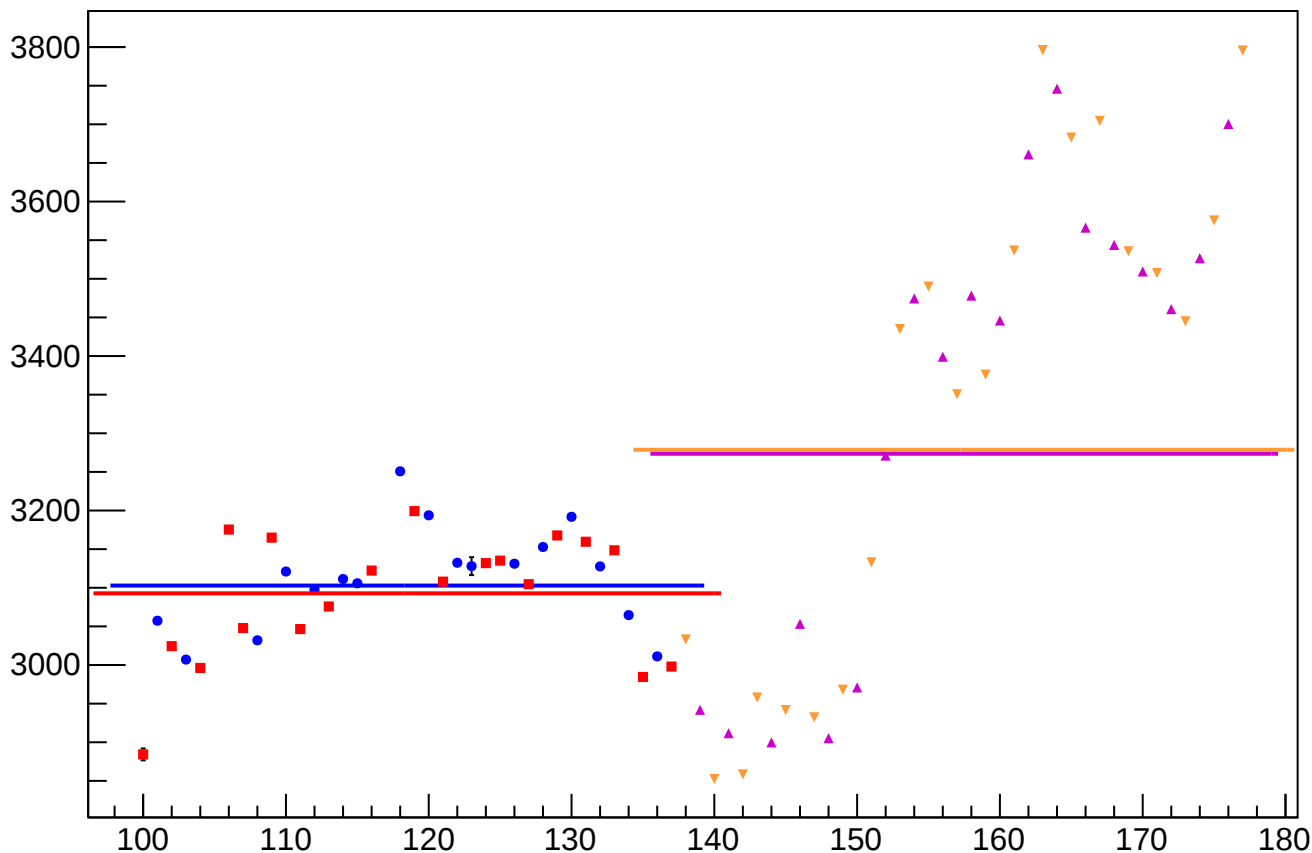
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.025 ± 0.697 χ^2/NDF : 628.6/35

Out: -3.954 ± 0.673 χ^2/NDF : 488.1/39

All: -3.506 ± 0.484 χ^2/NDF : 1117.6/75

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 $\pm$ 0.845 χ^2 /NDF: 7344.9/16

Left Out: 3278.684 $\pm$ 0.586 χ^2 /NDF:283615.3/20

Right Out: 3092.795 $\pm$ 0.818 χ^2 /NDF: 7763.4/18

Left In: 3273.500 $\pm$ 0.607 χ^2 /NDF:233315.9/18

Left: 3276.185 $\pm$ 0.421 χ^2 /NDF: 516969.0/39

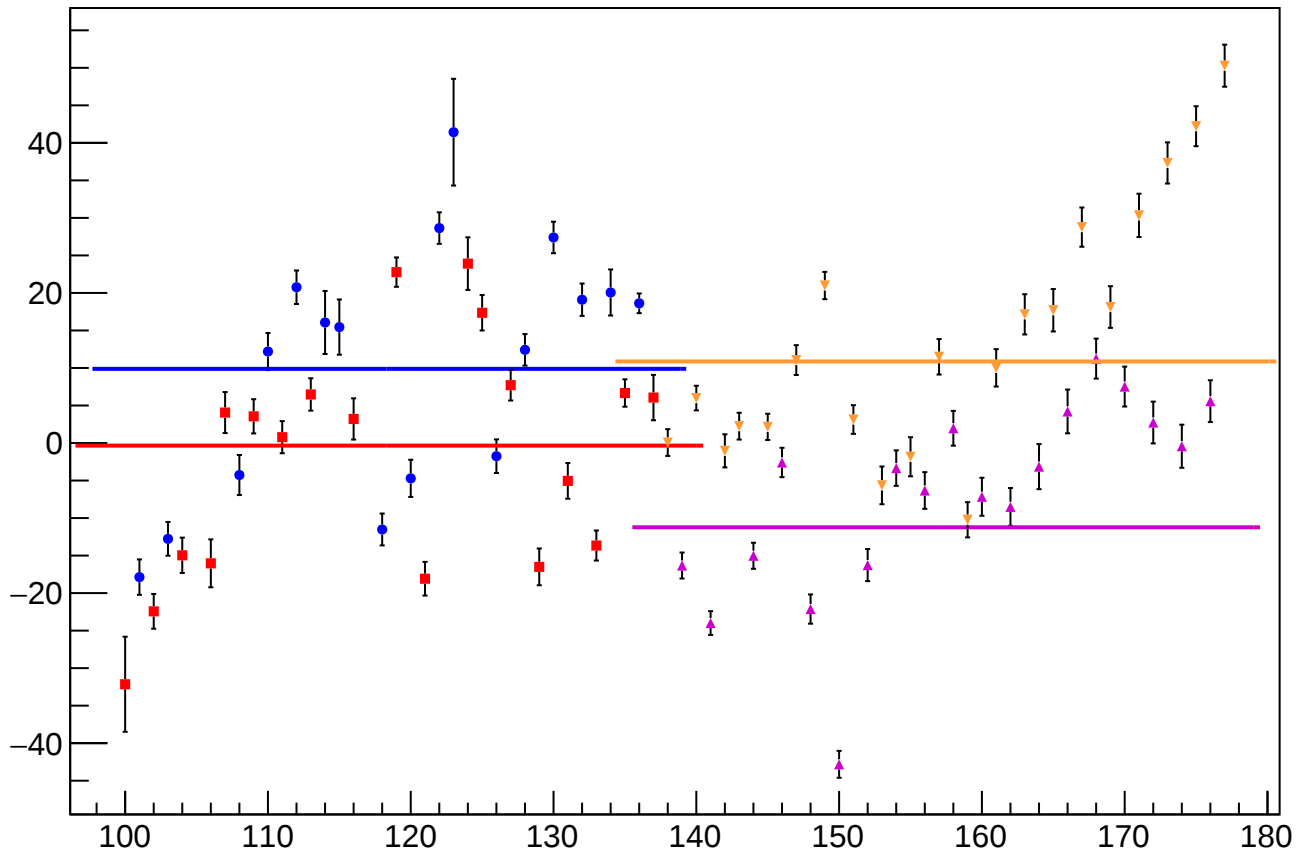
Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35

In: 3215.395 $\pm$ 0.493 χ^2 /NDF:267573.3/35

Out: 3215.686 $\pm$ 0.476 χ^2 /NDF:325537.0/39

All: 3215.546 $\pm$ 0.342 χ^2 /NDF: 593110.5/75

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

Left Out: 10.871 ± 0.485 $\chi^2/\text{NDF}: 857.7/20$

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

Left In: -11.231 ± 0.510 $\chi^2/\text{NDF}: 727.3/18$

Left: 0.362 ± 0.351 $\chi^2/\text{NDF}: 2571.8/39$

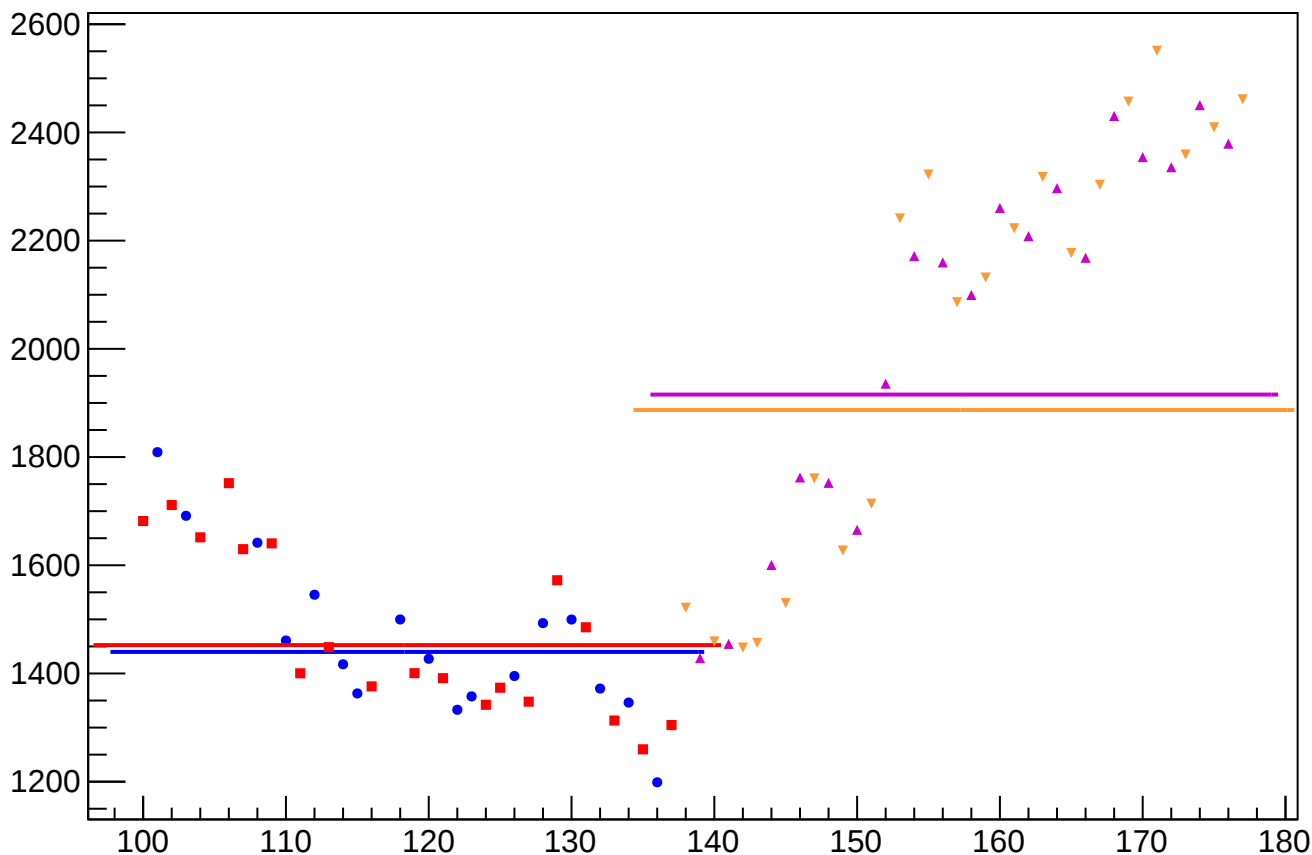
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

In: -1.656 ± 0.377 $\chi^2/\text{NDF}: 2209.8/35$

Out: 5.931 ± 0.363 $\chi^2/\text{NDF}: 1722.0/39$

All: 2.279 ± 0.261 $\chi^2/\text{NDF}: 4142.1/75$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1887.012 $\pm$ 0.343 χ^2 /NDF: 1265185.1/20

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

Left In: 1915.487 $\pm$ 0.360 χ^2 /NDF: 924814.5/18

Left: 1900.552 $\pm$ 0.248 χ^2 /NDF: 2193275.3/39

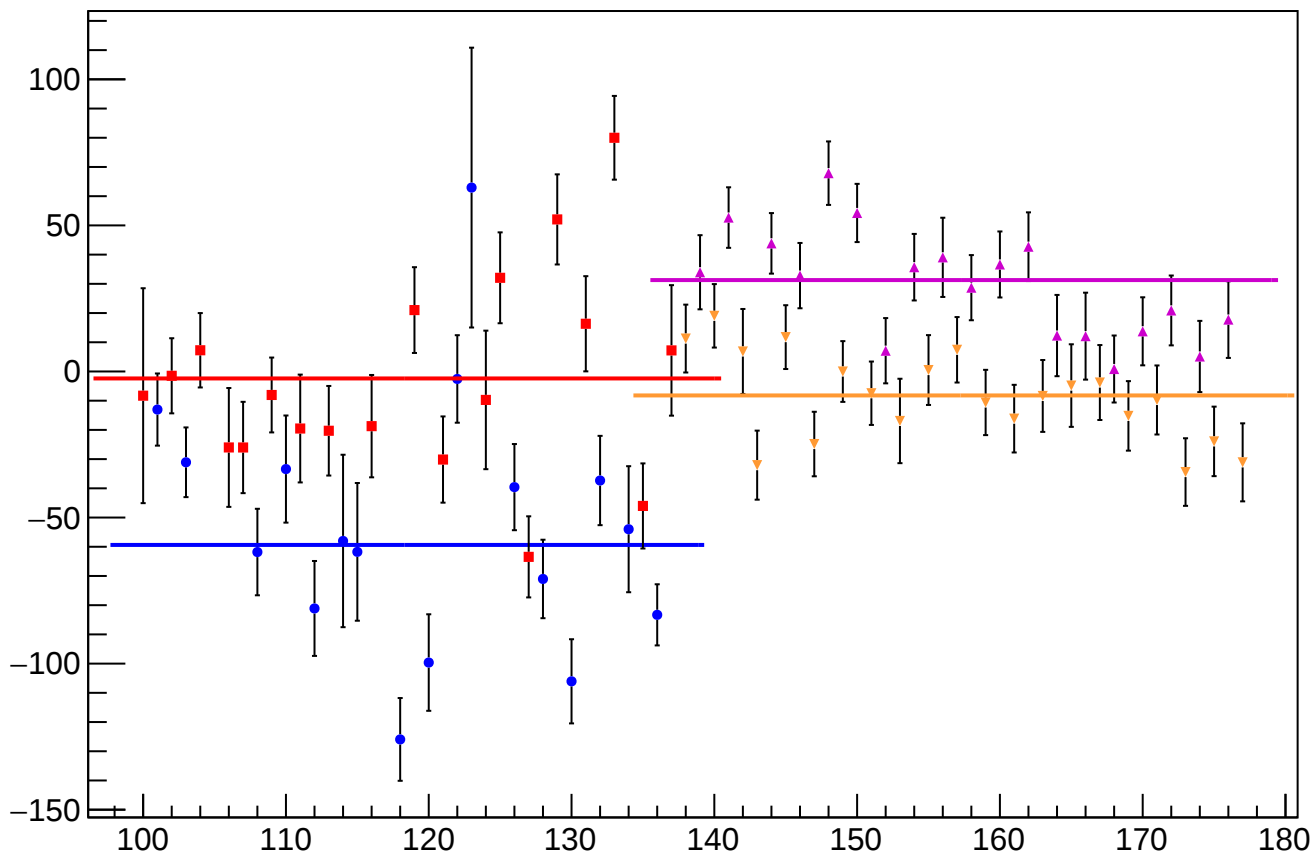
Right: 1446.283 $\pm$ 0.277 χ^2 /NDF: 311864.1/35

In: 1699.820 $\pm$ 0.266 χ^2 /NDF: 1887803.4/35

Out: 1695.620 $\pm$ 0.257 χ^2 /NDF: 2110350.6/39

All: 1697.642 $\pm$ 0.185 χ^2 /NDF: 3998282.9/75

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 $\pm$ 3.729 χ^2 /NDF: 92.9/16

Left Out: -8.202 $\pm$ 2.587 χ^2 /NDF:34.2/20

Right Out: -2.388 $\pm$ 3.630 χ^2 /NDF: 93.9/18

Left In: 31.285 $\pm$ 2.674 χ^2 /NDF:48.1/18

Left: 10.889 $\pm$ 1.859 χ^2 /NDF: 195.0/39

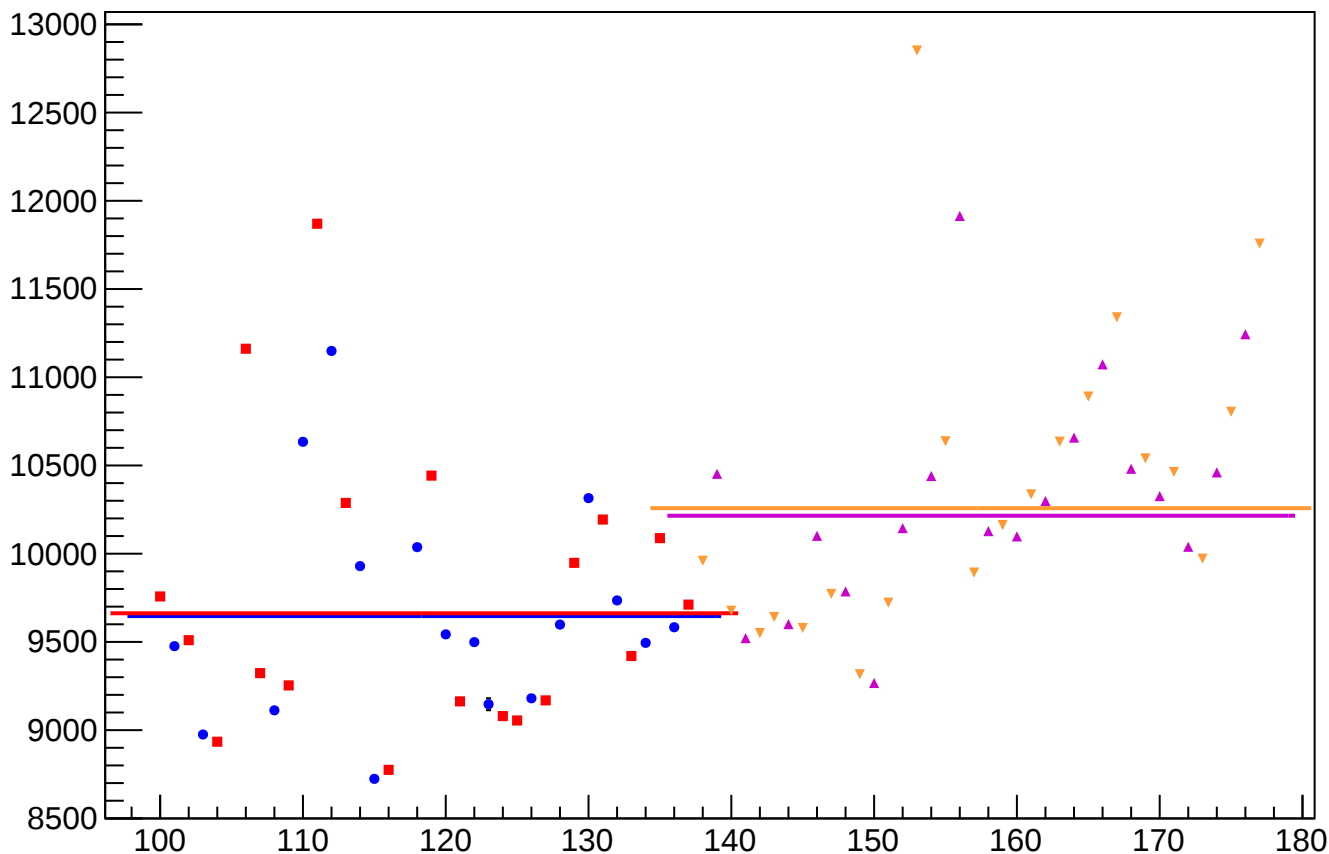
Right: -30.113 $\pm$ 2.601 χ^2 /NDF: 306.8/35

In: 0.495 $\pm$ 2.173 χ^2 /NDF:531.4/35

Out: -6.244 $\pm$ 2.107 χ^2 /NDF:129.9/39

All: -2.979 $\pm$ 1.513 χ^2 /NDF: 666.2/75

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

Left Out: 10257.919 ± 1.829 $\chi^2/\text{NDF}: 171432.2/20$

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

Left In: 10215.212 ± 1.891 $\chi^2/\text{NDF}: 94279.8/18$

Left: 10237.271 ± 1.315 $\chi^2/\text{NDF}: 265975.5/39$

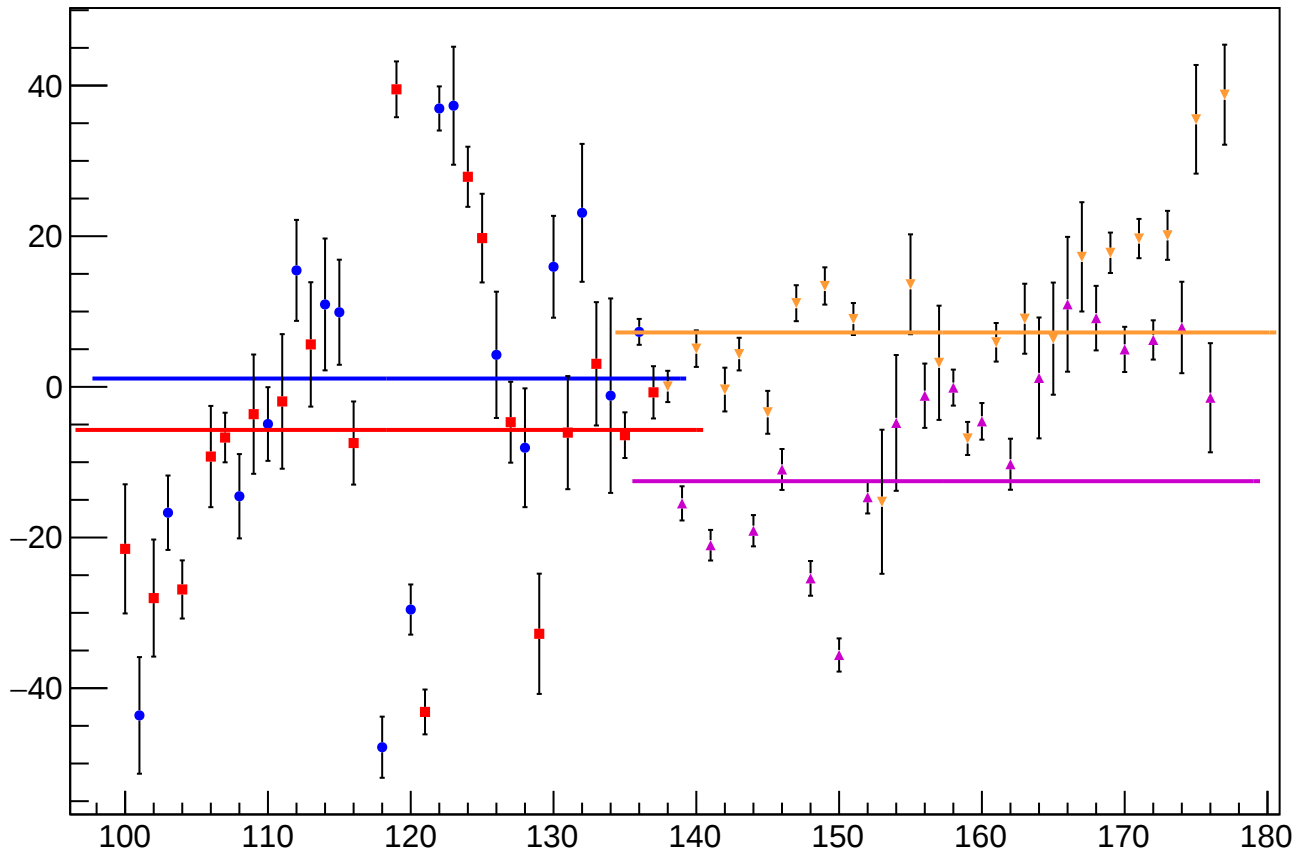
Right: 9654.635 ± 1.839 $\chi^2/\text{NDF}: 121662.9/35$

In: 10022.058 ± 1.537 $\chi^2/\text{NDF}: 169065.2/35$

Out: 10057.279 ± 1.490 $\chi^2/\text{NDF}: 284720.7/39$

All: 10040.214 ± 1.070 $\chi^2/\text{NDF}: 454056.7/75$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



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

Left Out: 7.221 ± 0.654 $\chi^2/\text{NDF}: 186.9/20$

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

Left In: -12.520 ± 0.659 $\chi^2/\text{NDF}: 352.2/18$

Left: -2.574 ± 0.465 $\chi^2/\text{NDF}: 990.6/39$

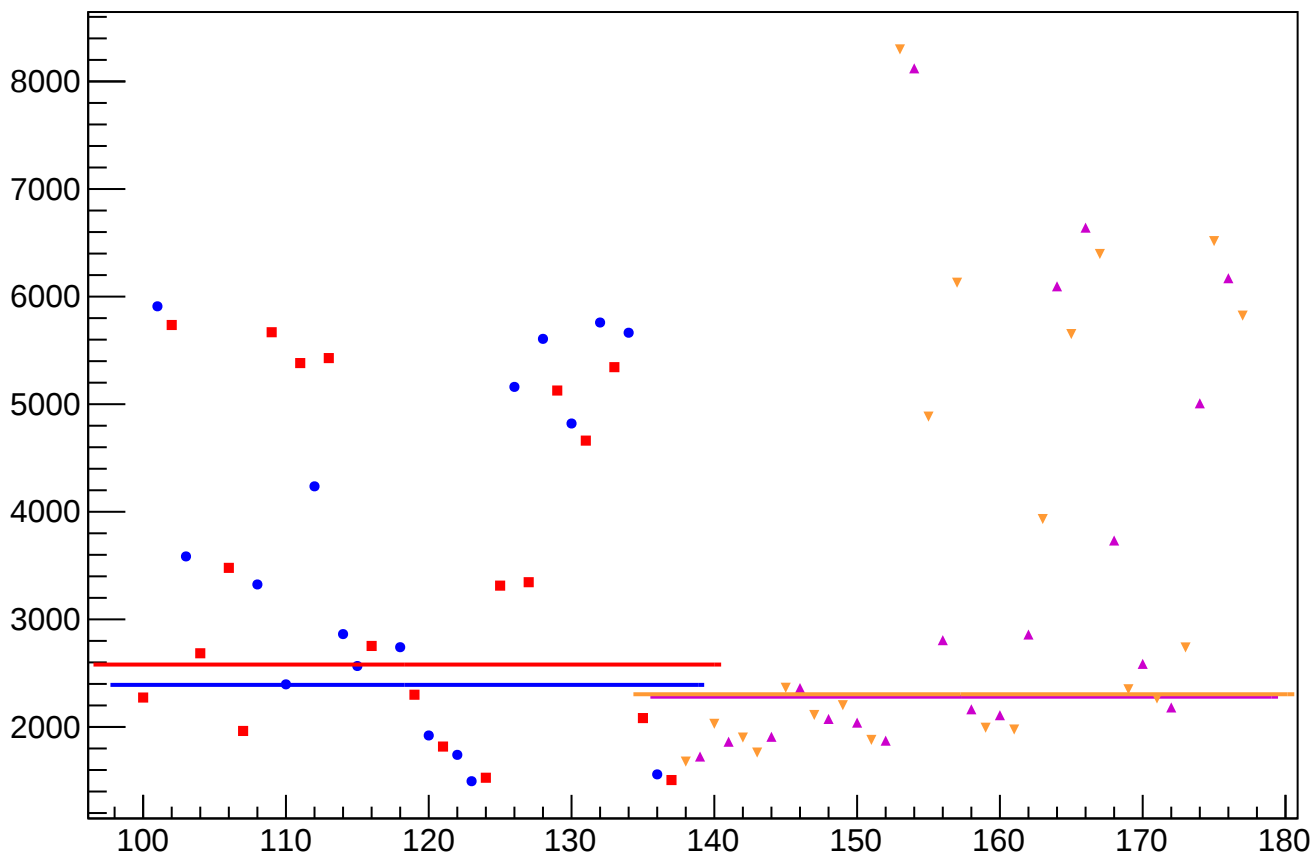
Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$

In: -8.751 ± 0.561 $\chi^2/\text{NDF}: 960.0/35$

Out: 3.798 ± 0.561 $\chi^2/\text{NDF}: 746.3/39$

All: -2.480 ± 0.397 $\chi^2/\text{NDF}: 1956.3/75$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2304.074 $\pm$ 0.463 χ^2 /NDF: 4706163.0/20

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

Left In: 2281.385 $\pm$ 0.466 χ^2 /NDF: 3486652.3/18

Left: 2292.816 $\pm$ 0.328 χ^2 /NDF: 8194008.0/39

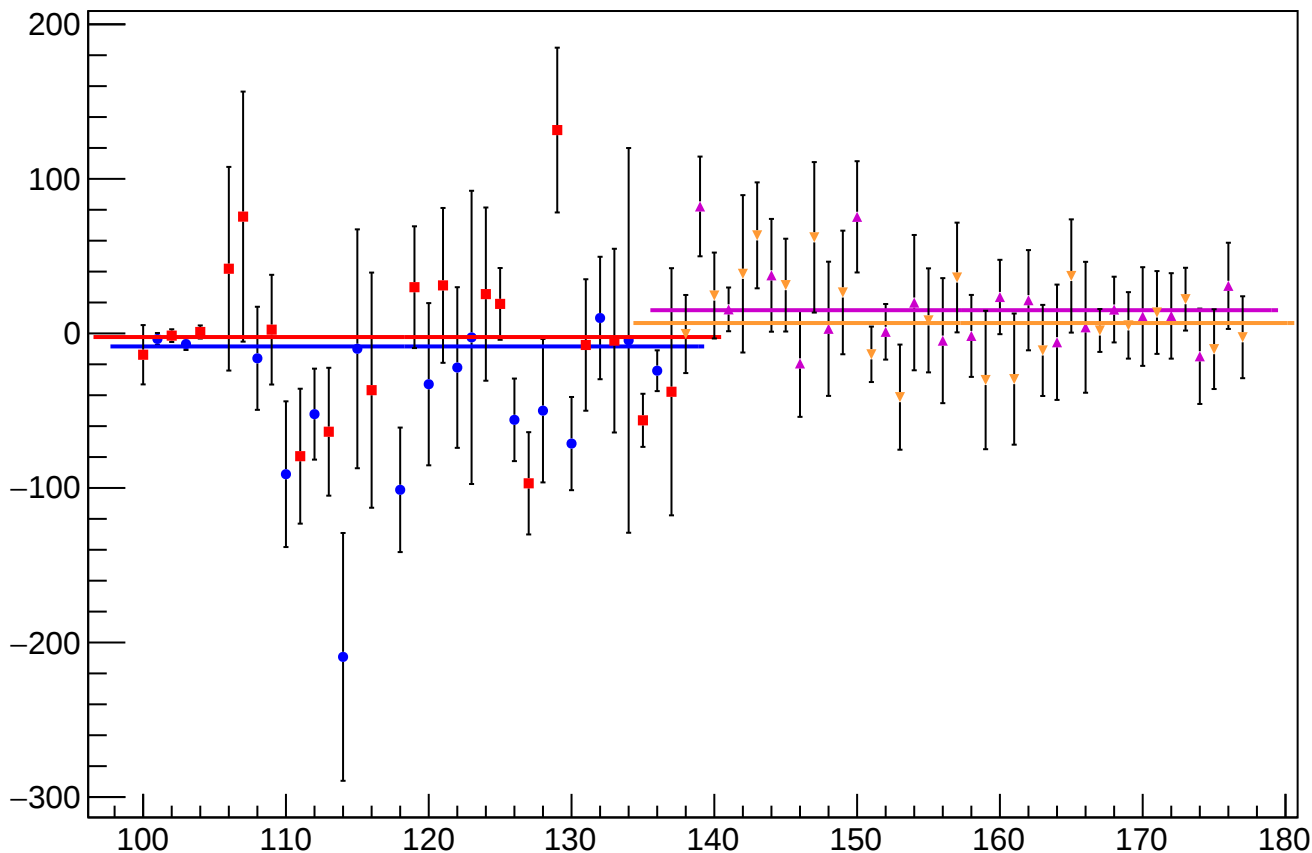
Right: 2483.443 $\pm$ 0.539 χ^2 /NDF: 4996468.7/35

In: 2311.750 $\pm$ 0.397 χ^2 /NDF: 6102529.3/35

Out: 2377.091 $\pm$ 0.397 χ^2 /NDF: 7165521.4/39

All: 2344.400 $\pm$ 0.281 χ^2 /NDF: 13281613.2/77

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 6.716 $\pm$ 5.878 χ^2/NDF :13.6/20

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

Left In: 15.021 $\pm$ 6.289 χ^2/NDF :11.7/18

Left: 10.588 $\pm$ 4.294 χ^2/NDF : 26.2/39

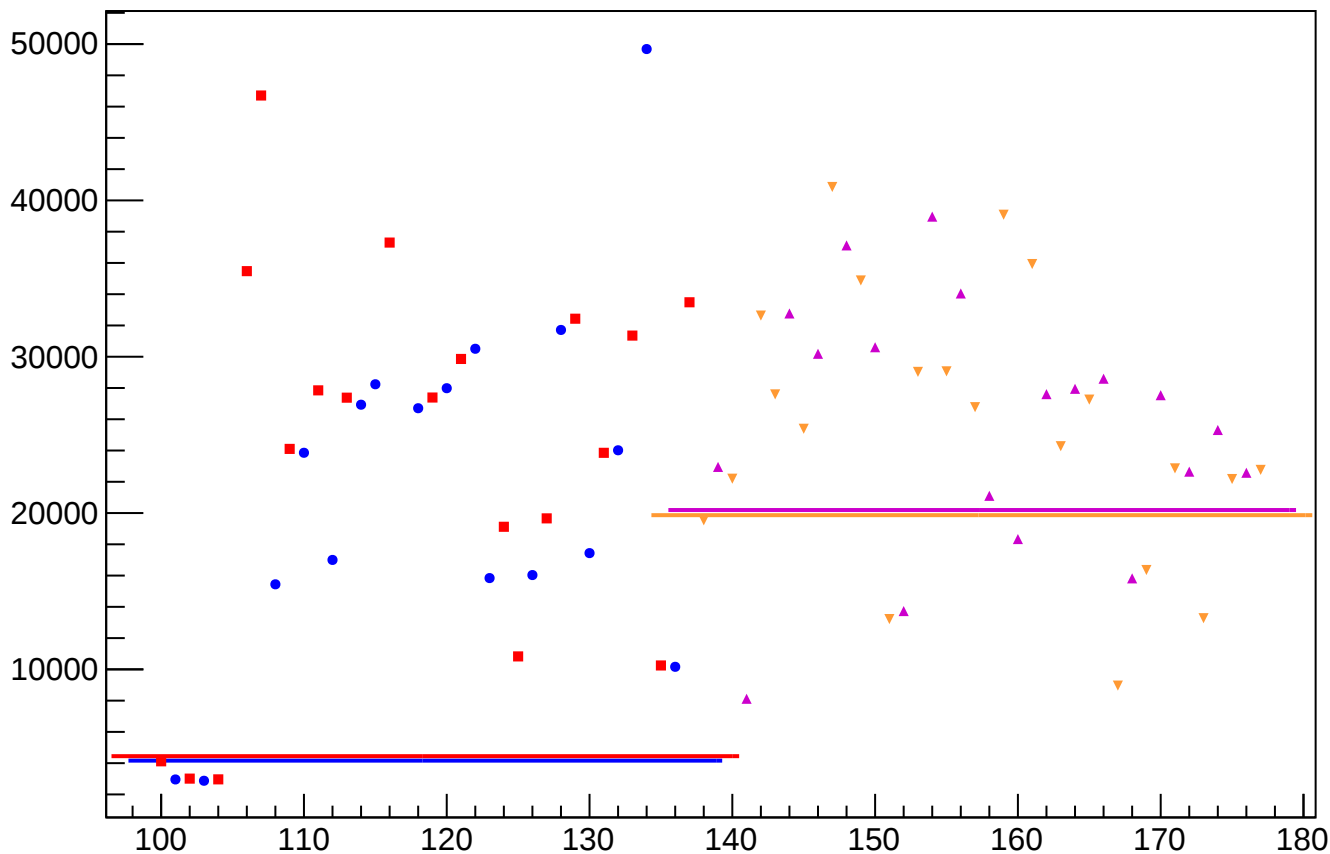
Right: -5.615 $\pm$ 1.896 χ^2/NDF : 66.1/35

In: -5.035 $\pm$ 2.393 χ^2/NDF :52.5/35

Out: -0.685 $\pm$ 2.518 χ^2/NDF :50.2/39

All: -2.971 $\pm$ 1.735 χ^2/NDF : 104.2/75

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4162.318 $\pm$ 1.830 χ^2/NDF : 5990070.5/16

Left Out: 19864.263 $\pm$ 4.156 χ^2/NDF : 3952504.8/20

Right Out: 4447.123 $\pm$ 1.971 χ^2/NDF : 7426930.4/18

Left In: 20193.657 $\pm$ 4.447 χ^2/NDF : 3767687.5/18

Left: 20017.847 $\pm$ 3.036 χ^2/NDF : 7723120.9/39

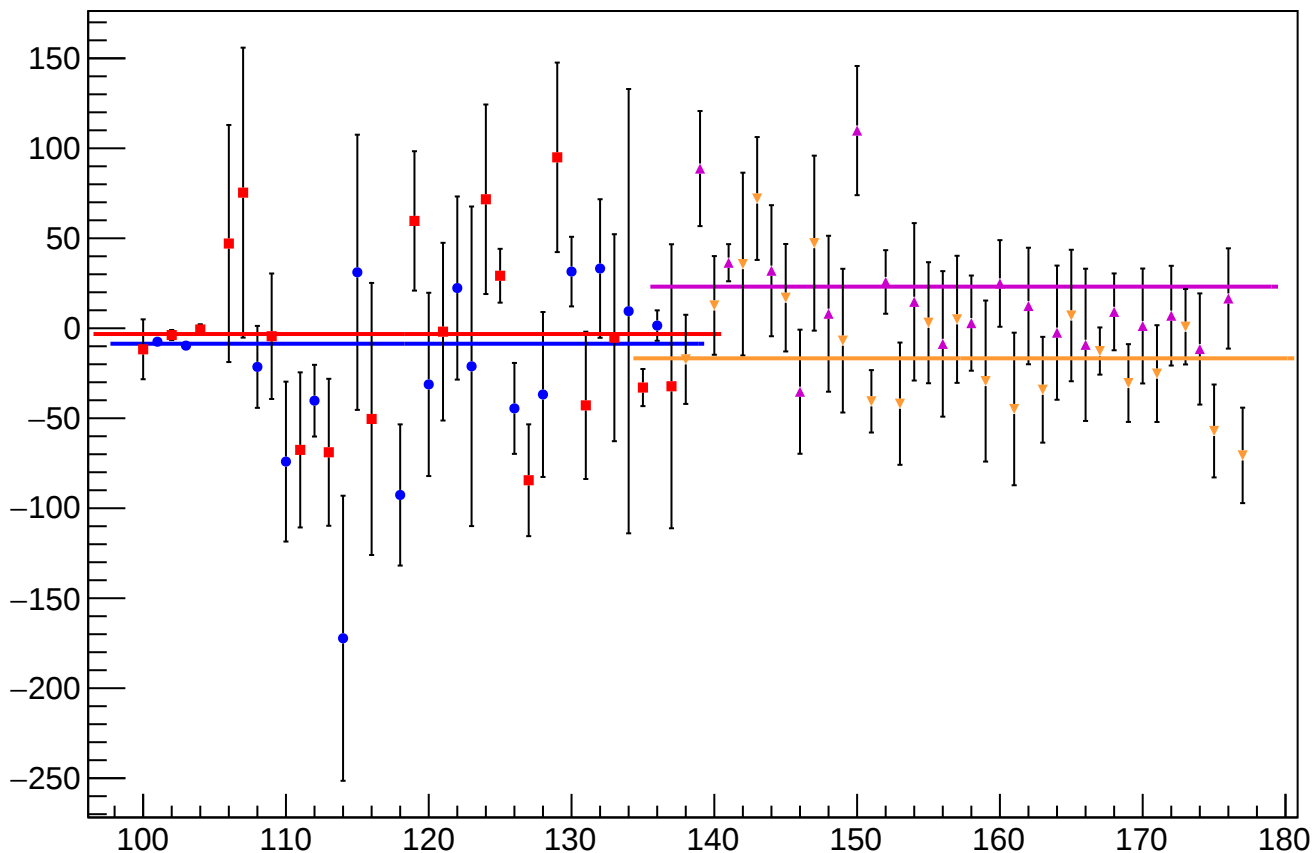
Right: 4294.168 $\pm$ 1.341 χ^2/NDF : 13428219.0/35

In: 6483.219 $\pm$ 1.692 χ^2/NDF : 20873063.0/35

Out: 7276.768 $\pm$ 1.781 χ^2/NDF : 22613698.8/39

All: 6859.756 $\pm$ 1.227 χ^2/NDF : 43591136.6/79

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.586 ± 1.778 χ^2/NDF : 24.4/16

Left Out: -16.696 ± 5.797 χ^2/NDF : 24.4/20

Right Out: -3.194 ± 1.922 χ^2/NDF : 36.9/18

Left In: 23.129 ± 5.790 χ^2/NDF : 19.7/18

Left: 3.240 ± 4.096 χ^2/NDF : 67.8/39

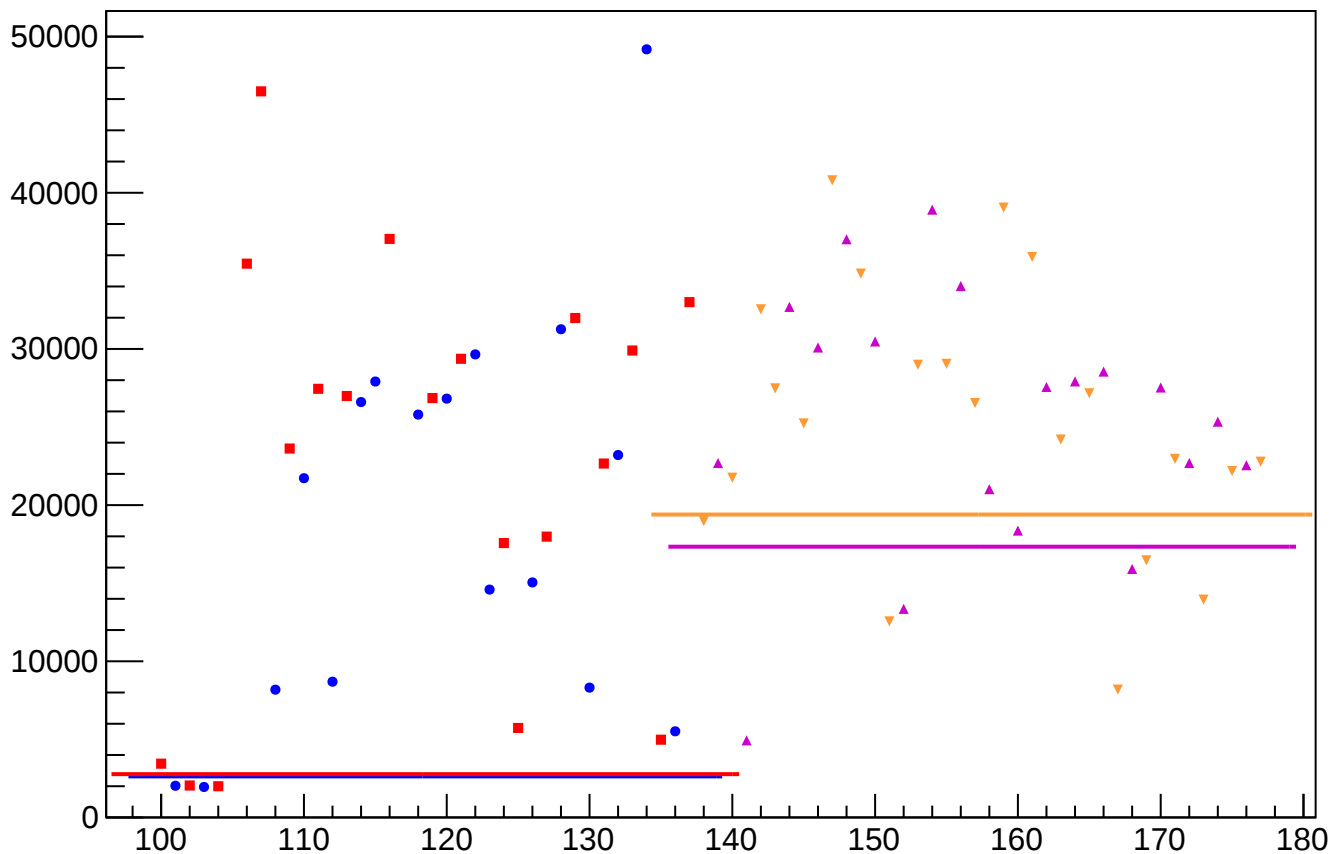
Right: -6.100 ± 1.305 χ^2/NDF : 65.5/35

In: -5.854 ± 1.699 χ^2/NDF : 71.6/35

Out: -4.532 ± 1.825 χ^2/NDF : 66.2/39

All: -5.240 ± 1.244 χ^2/NDF : 138.0/75

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19396.285+/-4.099 χ^2/NDF : 4298496.2/20

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

Left In: 17337.693+/-4.094 χ^2/NDF : 6224724.6/18

Left: 18365.751+/-2.897 χ^2/NDF : 10649493.7/39

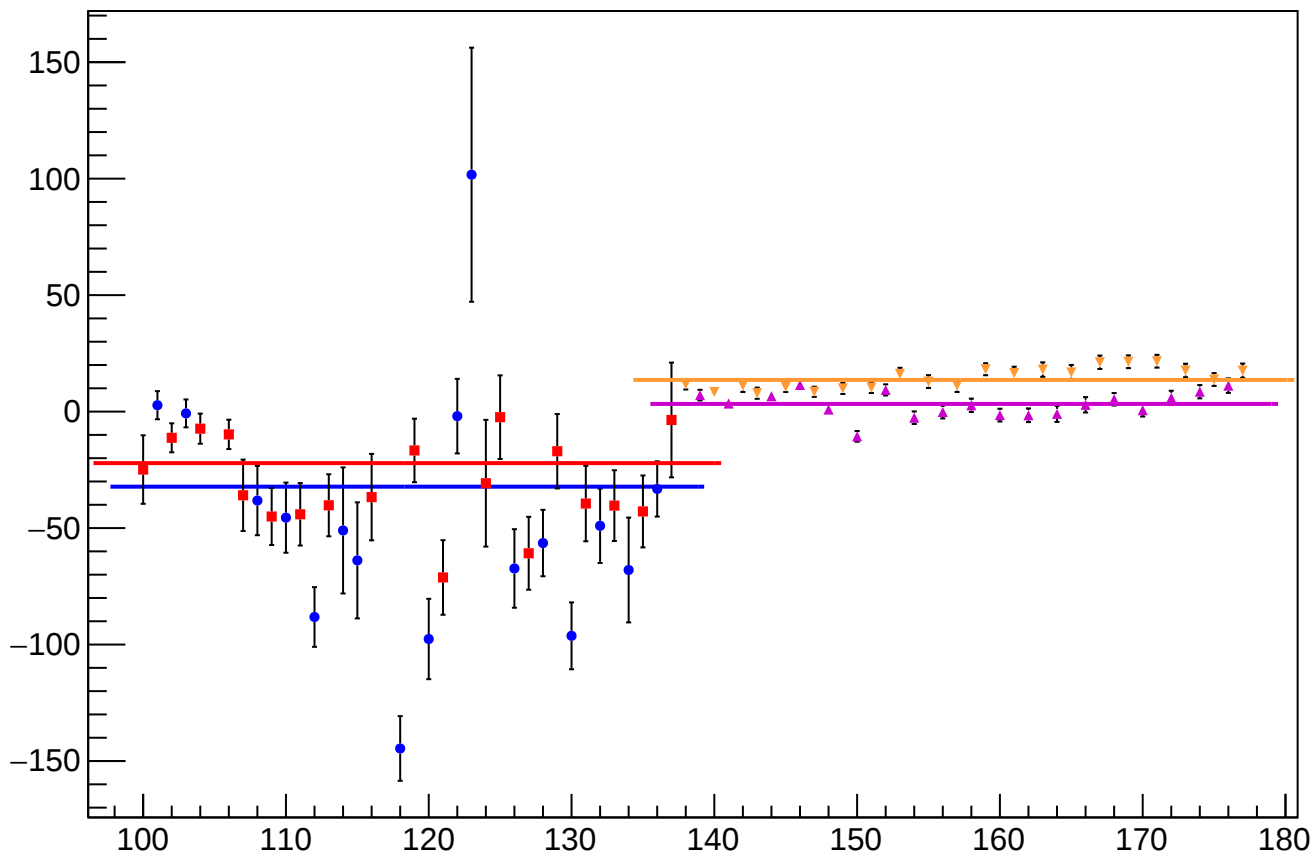
Right: 2696.425+/-0.923 χ^2/NDF : 13430817.7/35

In: 3897.713+/-1.202 χ^2/NDF : 23607386.9/35

Out: 4420.307+/-1.290 χ^2/NDF : 26951984.7/39

All: 4140.483+/-0.879 χ^2/NDF : 50647228.3/77

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 13.601 ± 0.567 χ^2/NDF : 60.5/20

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

Left In: 3.295 ± 0.590 χ^2/NDF : 90.2/18

Left: 8.659 ± 0.409 χ^2/NDF : 309.4/39

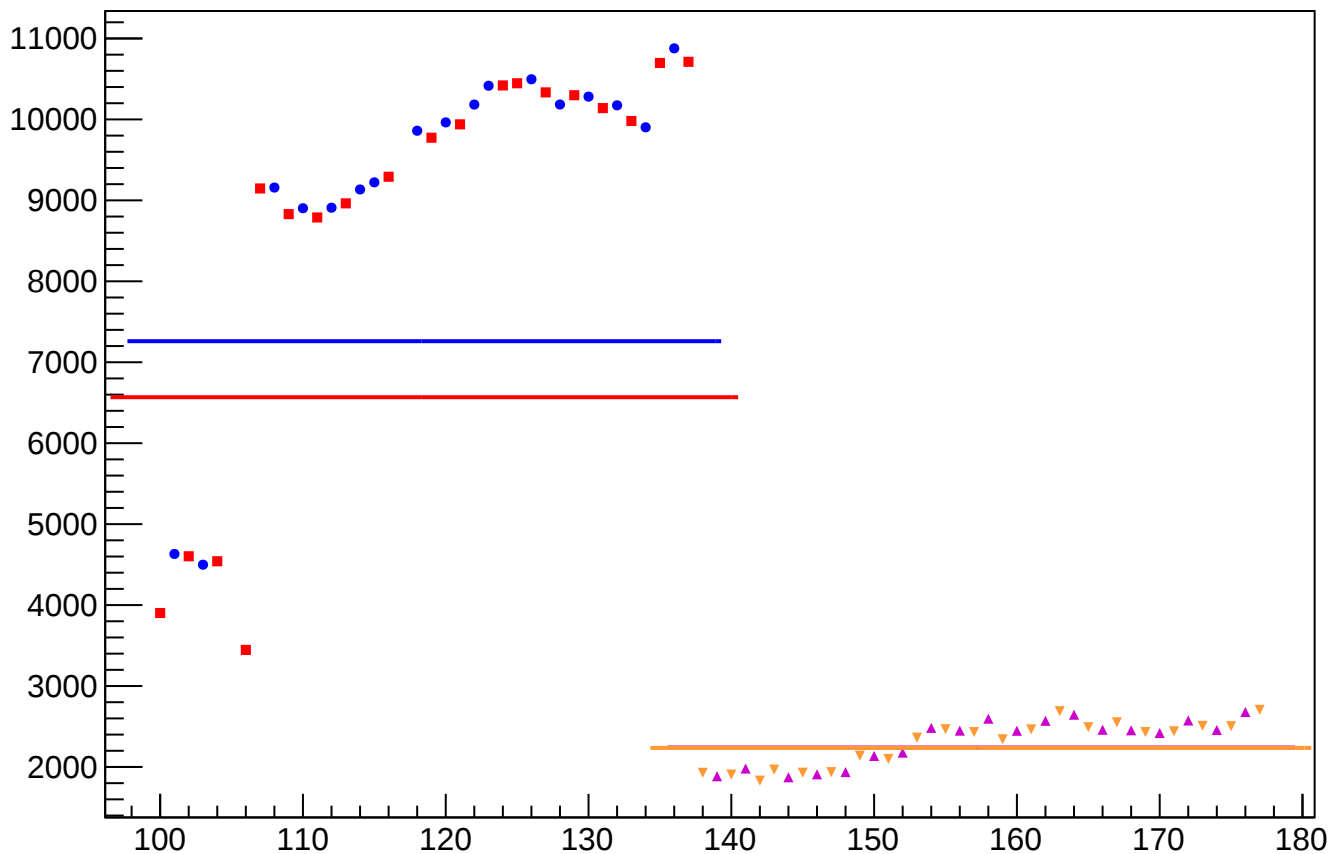
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 1.955 ± 0.579 χ^2/NDF : 430.4/35

Out: 12.062 ± 0.554 χ^2/NDF : 275.5/39

All: 7.230 ± 0.400 χ^2/NDF : 864.9/75

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2235.750+/-0.401 χ^2/NDF : 467150.5/20

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

Left In: 2240.429+/-0.417 χ^2/NDF : 464816.4/18

Left: 2237.994+/-0.289 χ^2/NDF : 932032.4/39

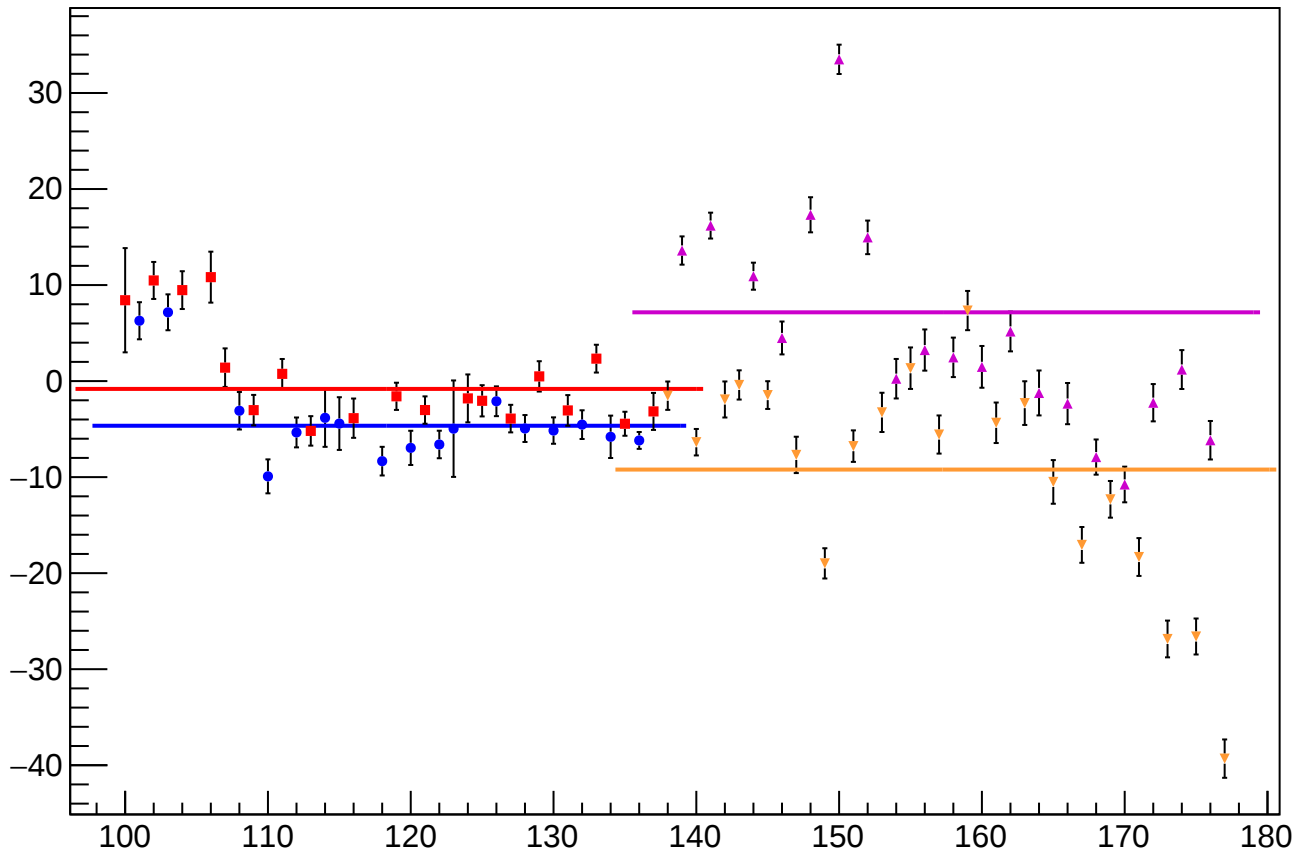
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

In: 2429.742+/-0.409 χ^2/NDF : 7556772.0/35

Out: 2422.487+/-0.392 χ^2/NDF : 7705223.8/39

All: 2425.956+/-0.283 χ^2/NDF : 15262159.7/77

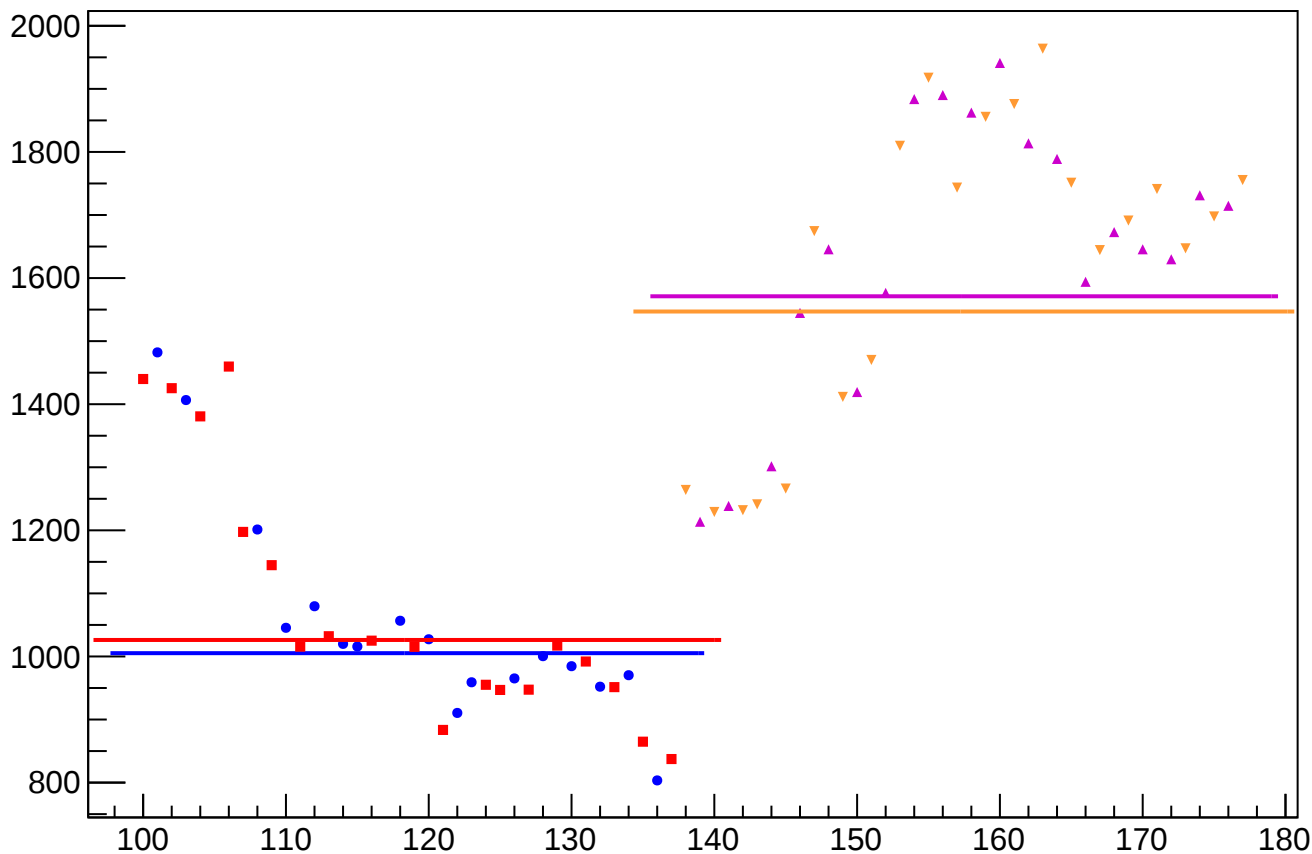
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -9.213 ± 0.395 $\chi^2/\text{NDF}: 706.6/20$
 Right Out: -0.814 ± 0.388 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 7.162 ± 0.415 $\chi^2/\text{NDF}: 719.3/18$

Left: -1.446 ± 0.286 $\chi^2/\text{NDF}: 2242.4/39$
 Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$
 In: 0.922 ± 0.285 $\chi^2/\text{NDF}: 1243.8/35$
 Out: -4.948 ± 0.277 $\chi^2/\text{NDF}: 1060.3/39$
 All: -2.101 ± 0.199 $\chi^2/\text{NDF}: 2522.1/75$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1546.976 ± 0.279 χ^2/NDF : 786188.4/20

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

Left In: 1571.116 ± 0.294 χ^2/NDF : 604017.0/18

Left: 1558.427 ± 0.202 χ^2/NDF : 1393754.6/39

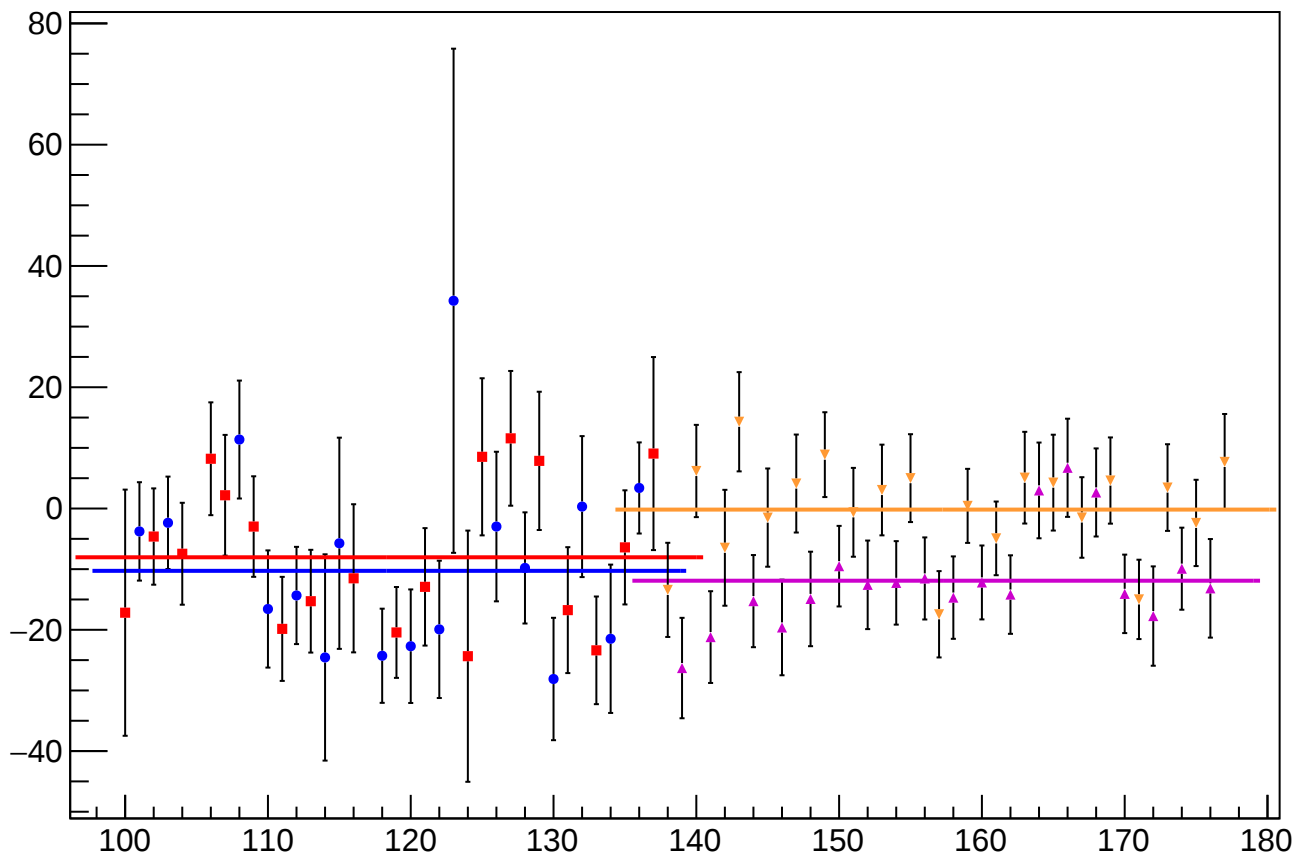
Right: 1015.803 ± 0.195 χ^2/NDF : 697945.4/35

In: 1272.193 ± 0.202 χ^2/NDF : 2925980.5/35

Out: 1282.458 ± 0.196 χ^2/NDF : 2888118.3/39

All: 1277.481 ± 0.141 χ^2/NDF : 5815431.7/75

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.177 $\pm$ 1.592 χ^2/NDF : 24.1/20

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

Left In: -11.905 $\pm$ 1.656 χ^2/NDF : 19.9/18

Left: -5.810 $\pm$ 1.148 χ^2/NDF : 70.1/39

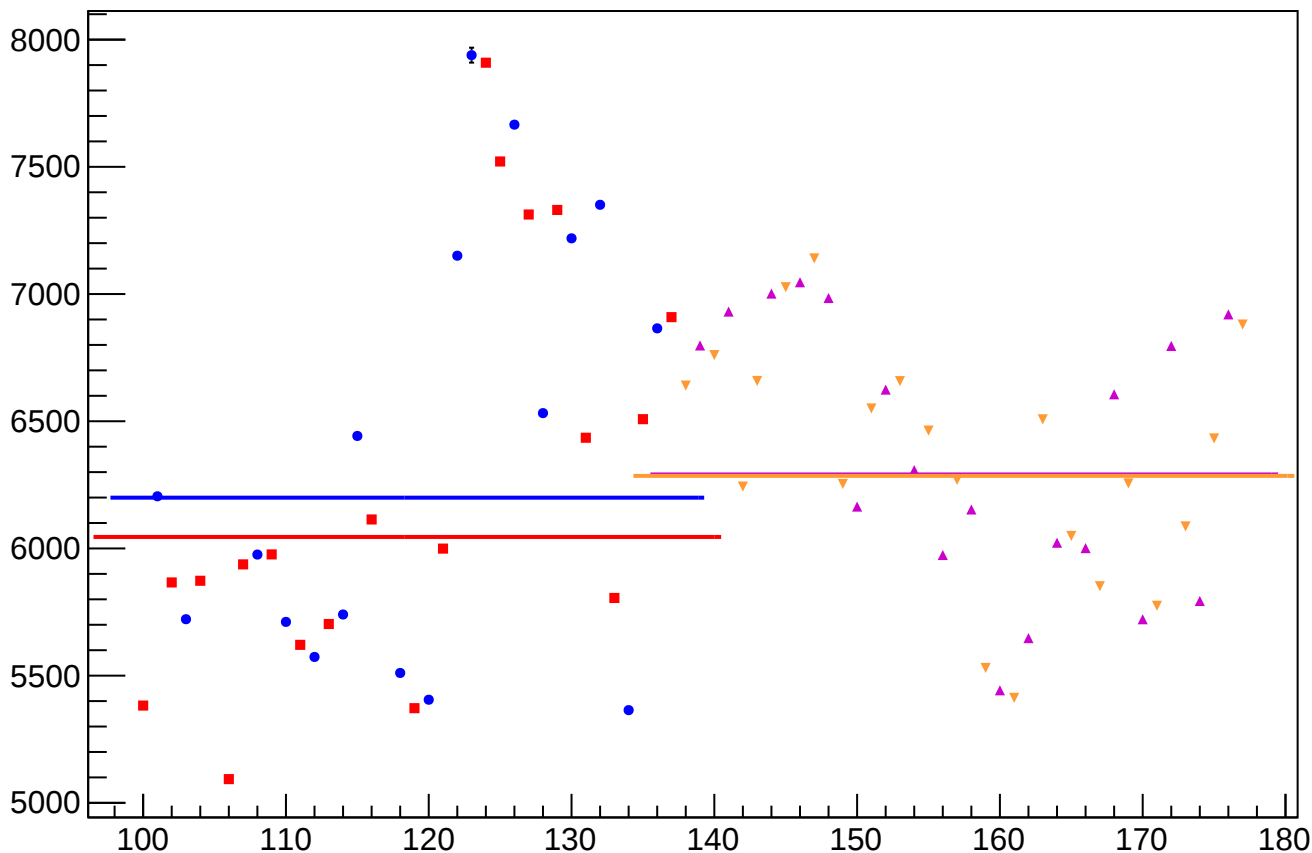
Right: -9.097 $\pm$ 1.655 χ^2/NDF : 46.7/35

In: -11.383 $\pm$ 1.364 χ^2/NDF : 43.7/35

Out: -2.756 $\pm$ 1.305 χ^2/NDF : 54.9/39

All: -6.878 $\pm$ 0.943 χ^2/NDF : 119.4/75

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6285.312 $\pm$ 1.126 χ^2 /NDF:173957.3/20

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

Left In: 6290.813 $\pm$ 1.171 χ^2 /NDF:196643.9/18

Left: 6287.955 $\pm$ 0.811 χ^2 /NDF: 370612.7/39

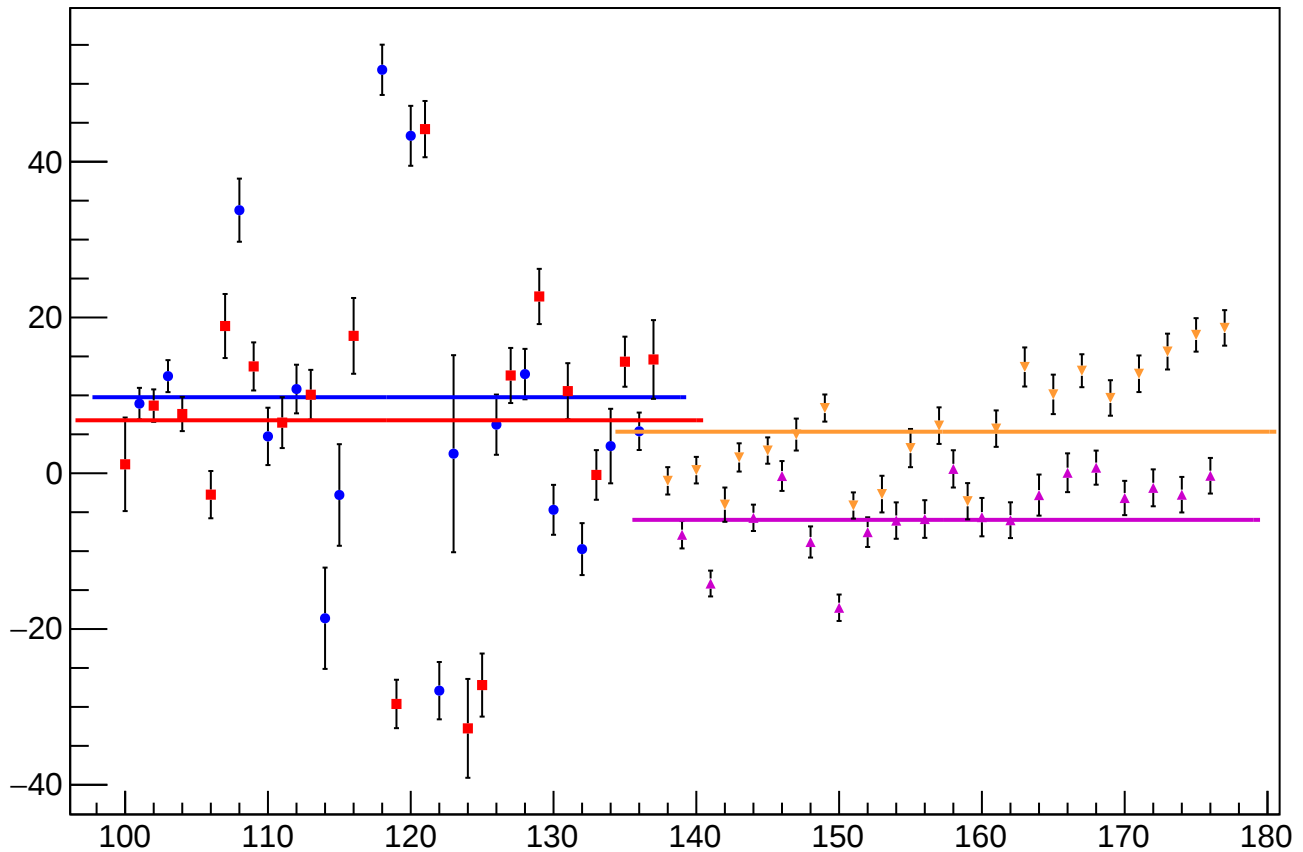
Right: 6118.133 $\pm$ 1.170 χ^2 /NDF: 334424.9/35

In: 6261.533 $\pm$ 0.965 χ^2 /NDF:370352.2/35

Out: 6206.541 $\pm$ 0.923 χ^2 /NDF:347210.0/39

All: 6232.814 $\pm$ 0.667 χ^2 /NDF: 719259.1/75

diff_bpm0l05Y_mean vs Slug, Sign Corrected



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

Left Out: 5.336 ± 0.454 $\chi^2/\text{NDF}: 236.2/20$

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

Left In: -5.982 ± 0.480 $\chi^2/\text{NDF}: 118.2/18$

Left: -0.011 ± 0.330 $\chi^2/\text{NDF}: 648.1/39$

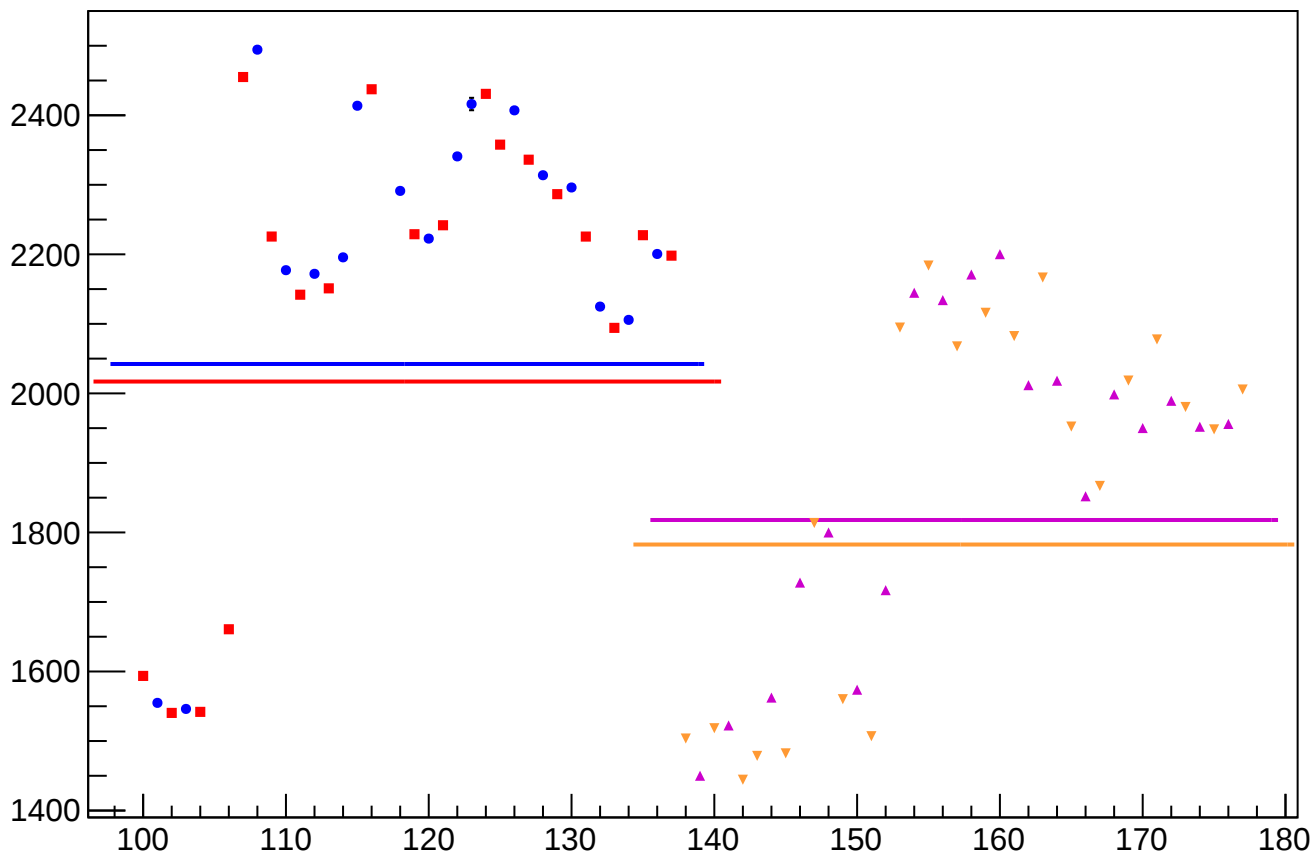
Right: 8.222 ± 0.552 $\chi^2/\text{NDF}: 902.8/35$

In: -1.794 ± 0.411 $\chi^2/\text{NDF}: 878.5/35$

Out: 5.717 ± 0.390 $\chi^2/\text{NDF}: 660.8/39$

All: 2.155 ± 0.283 $\chi^2/\text{NDF}: 1714.9/75$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1782.618 $\pm$ 0.321 χ^2 /NDF: 701578.2/20

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

Left In: 1817.897 $\pm$ 0.339 χ^2 /NDF: 485002.9/18

Left: 1799.284 $\pm$ 0.233 χ^2 /NDF: 1192289.3/39

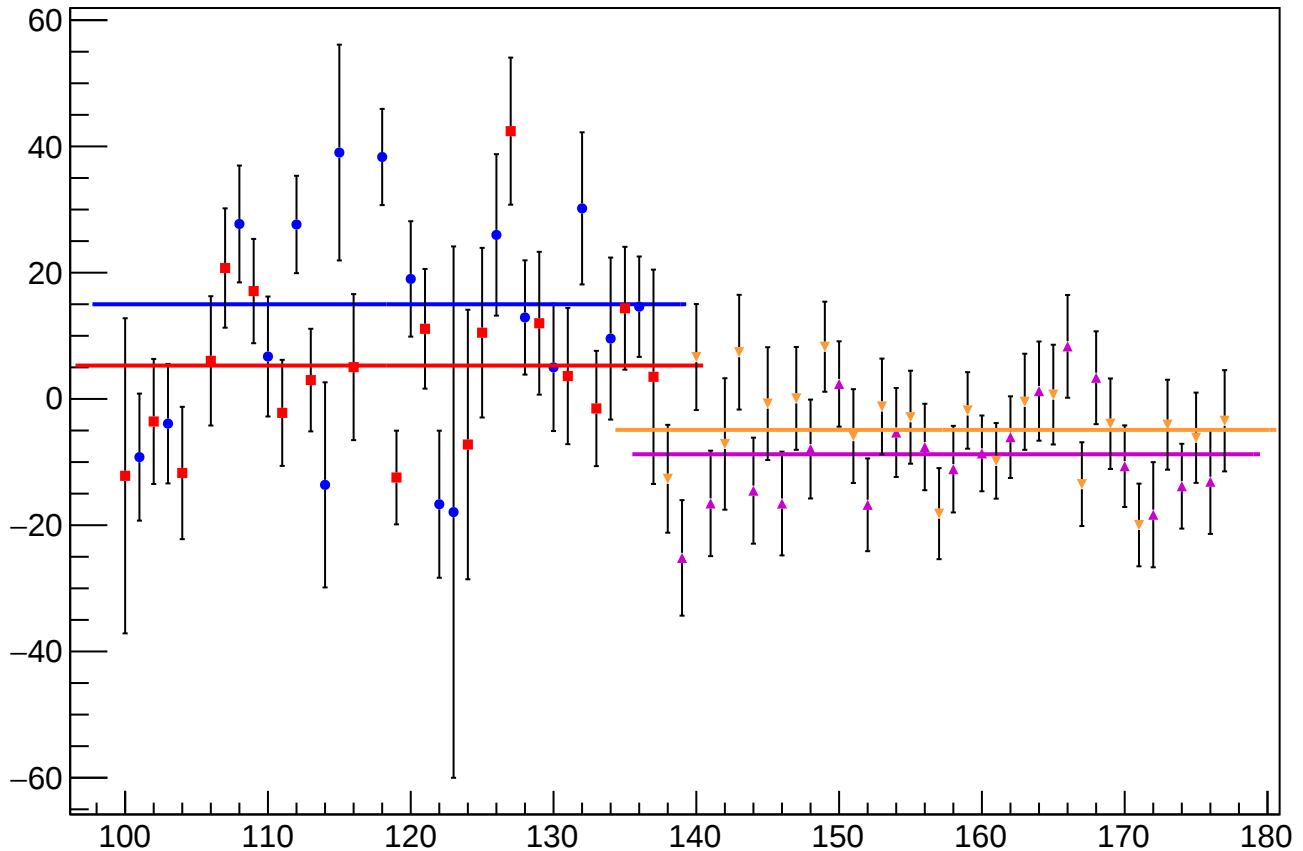
Right: 2029.129 $\pm$ 0.390 χ^2 /NDF: 733495.1/35

In: 1877.570 $\pm$ 0.291 χ^2 /NDF: 958219.8/35

Out: 1843.677 $\pm$ 0.276 χ^2 /NDF: 1216162.9/39

All: 1859.751 $\pm$ 0.200 χ^2 /NDF: 2181535.4/75

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

Left Out: -4.898 ± 1.626 $\chi^2/\text{NDF}: 21.1/20$

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

Left In: -8.759 ± 1.687 $\chi^2/\text{NDF}: 20.9/18$

Left: -6.758 ± 1.171 $\chi^2/\text{NDF}: 44.8/39$

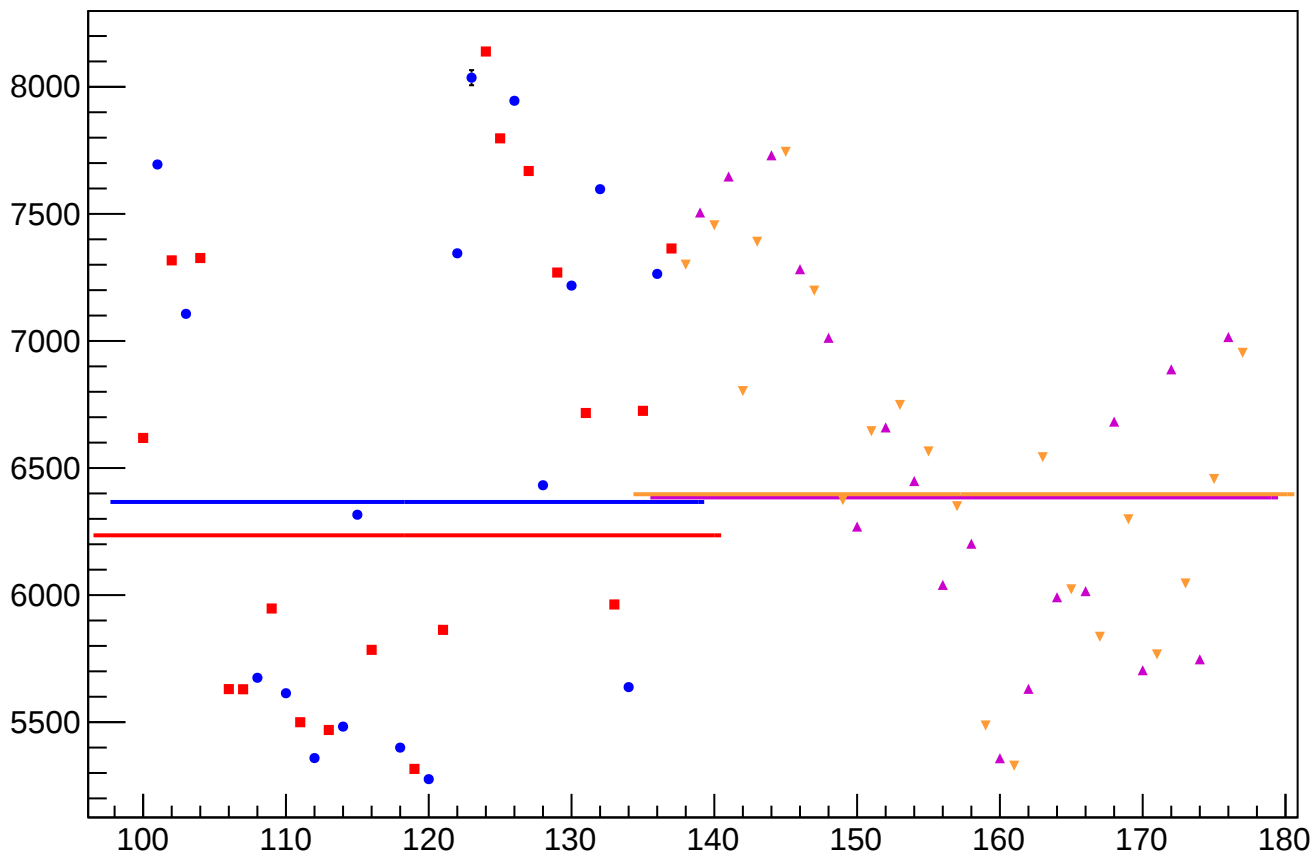
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: -1.266 ± 1.396 $\chi^2/\text{NDF}: 124.8/35$

Out: -1.613 ± 1.338 $\chi^2/\text{NDF}: 61.9/39$

All: -1.447 ± 0.966 $\chi^2/\text{NDF}: 186.7/75$

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6396.847 ± 1.150 $\chi^2/\text{NDF}: 315274.6/20$

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

Left In: 6384.425 ± 1.193 $\chi^2/\text{NDF}: 331064.7/18$

Left: 6390.865 ± 0.828 $\chi^2/\text{NDF}: 646395.5/39$

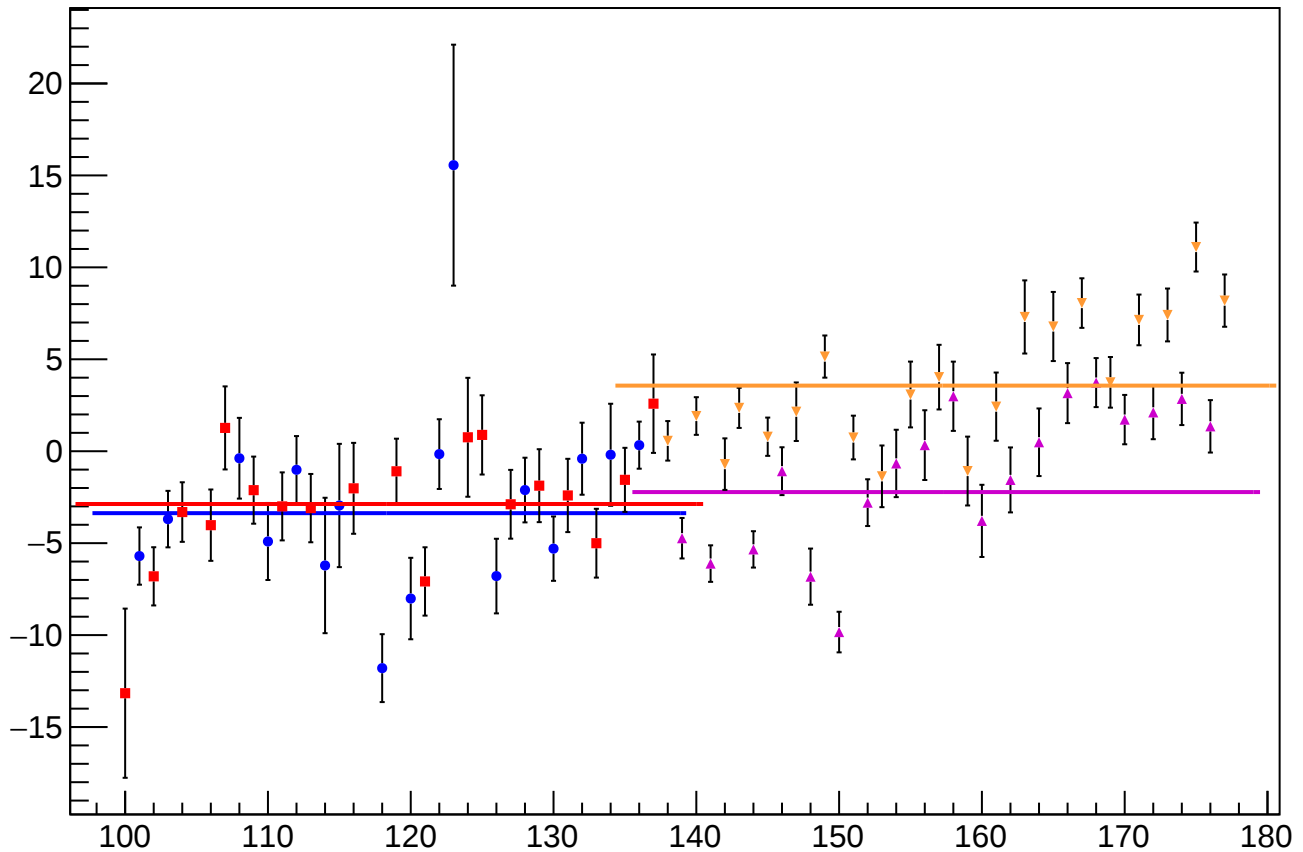
Right: 6297.369 ± 1.209 $\chi^2/\text{NDF}: 532637.5/35$

In: 6378.768 ± 0.987 $\chi^2/\text{NDF}: 617630.5/35$

Out: 6344.730 ± 0.946 $\chi^2/\text{NDF}: 564852.5/39$

All: 6361.035 ± 0.683 $\chi^2/\text{NDF}: 1183102.6/75$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Left: 0.837 ± 0.217 χ^2/NDF : 471.3/39

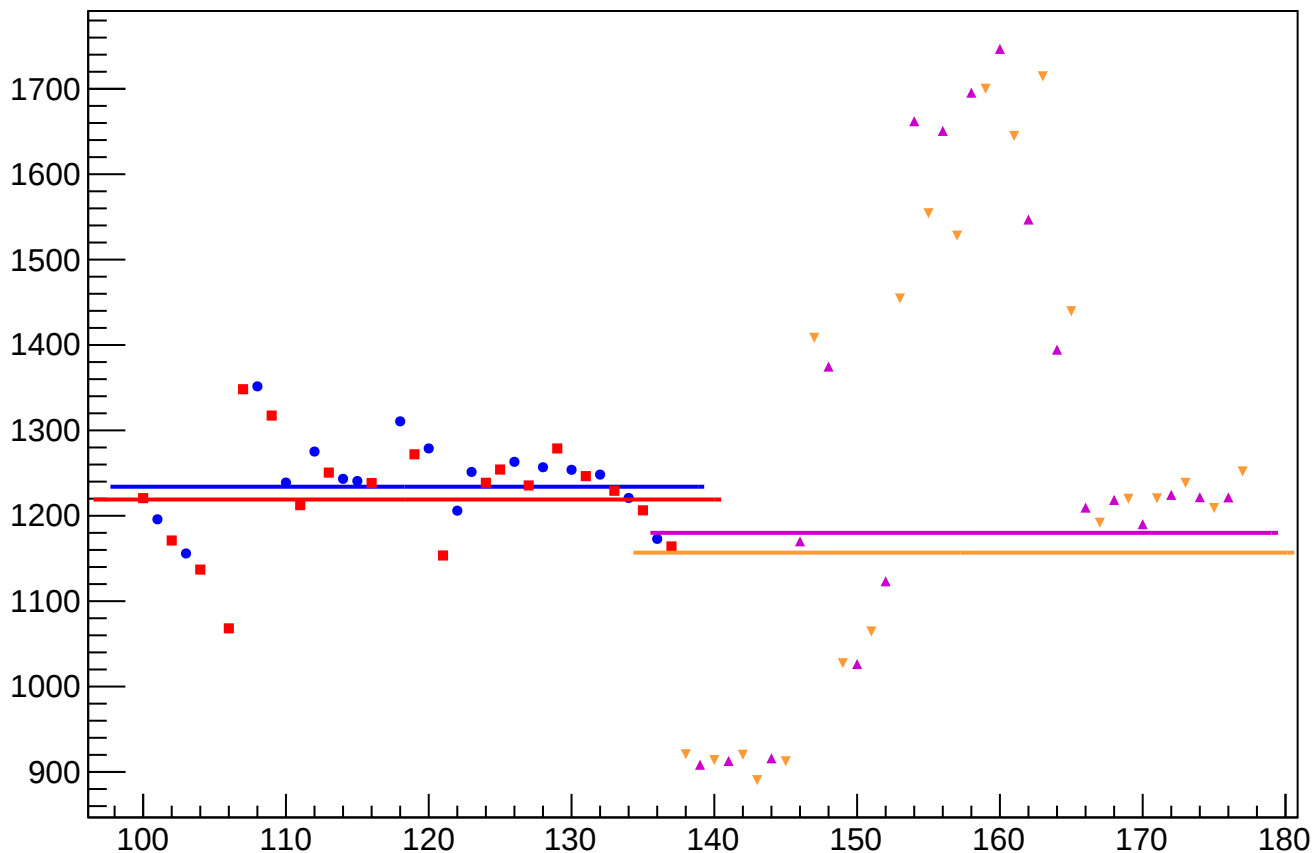
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -2.573 ± 0.263 χ^2/NDF : 232.4/35

Out: 1.637 ± 0.250 χ^2/NDF : 297.1/39

All: -0.359 ± 0.181 χ^2/NDF : 663.9/75

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1234.032 ± 0.336 $\chi^2/\text{NDF}: 23565.3/16$

Left Out: 1156.816 ± 0.211 $\chi^2/\text{NDF}: 1371324.6/20$

Right Out: 1219.041 ± 0.323 $\chi^2/\text{NDF}: 40370.4/18$

Left In: 1180.027 ± 0.224 $\chi^2/\text{NDF}: 1183836.7/18$

Left: 1167.765 ± 0.154 $\chi^2/\text{NDF}: 2560855.3/39$

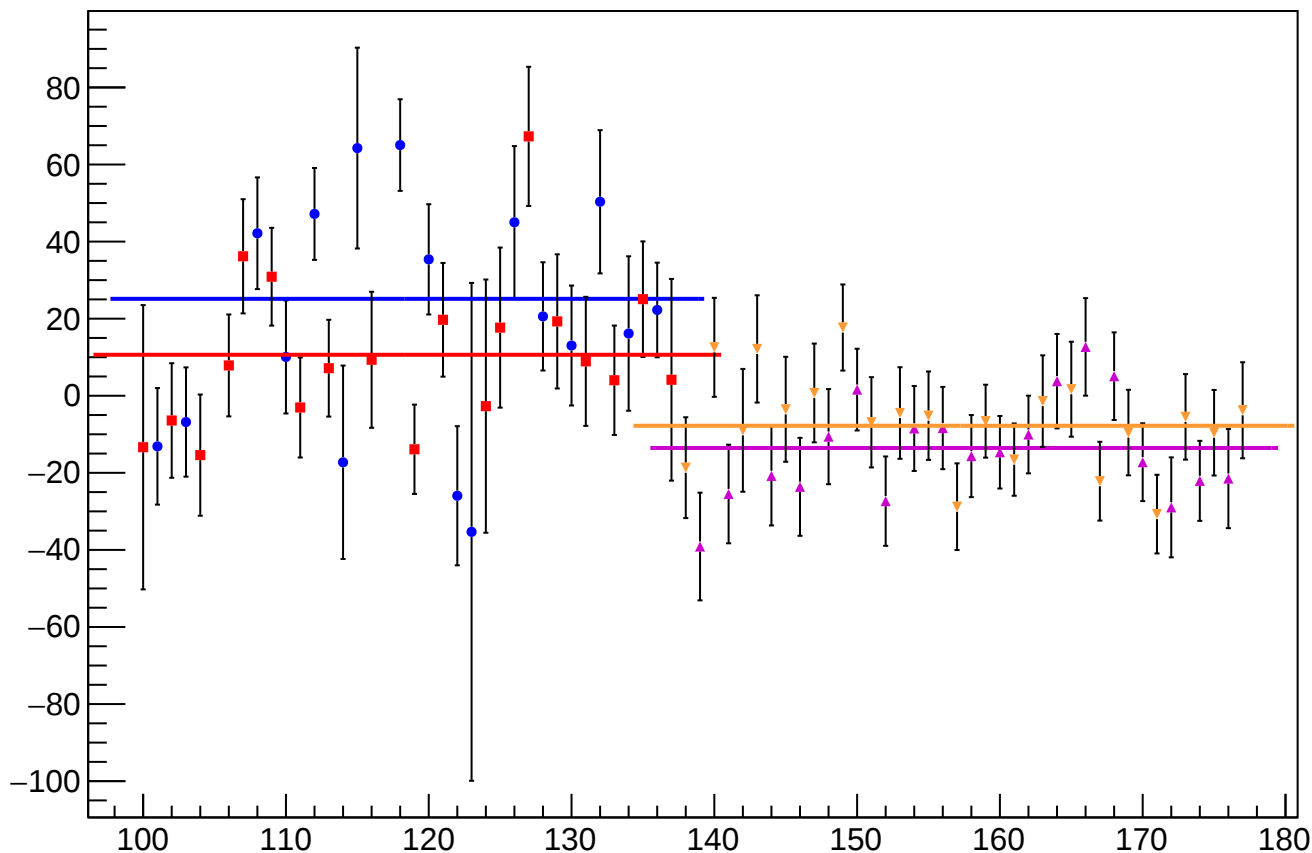
Right: 1226.229 ± 0.233 $\chi^2/\text{NDF}: 64970.2/35$

In: 1196.584 ± 0.186 $\chi^2/\text{NDF}: 1225289.2/35$

Out: 1175.483 ± 0.177 $\chi^2/\text{NDF}: 1437719.3/39$

All: 1185.486 ± 0.128 $\chi^2/\text{NDF}: 2669764.4/75$

diff_bpm0l07X_mean vs Slug, Sign Corrected



Left: -10.557 $\pm$ 1.821 χ^2/NDF : 47.0/39

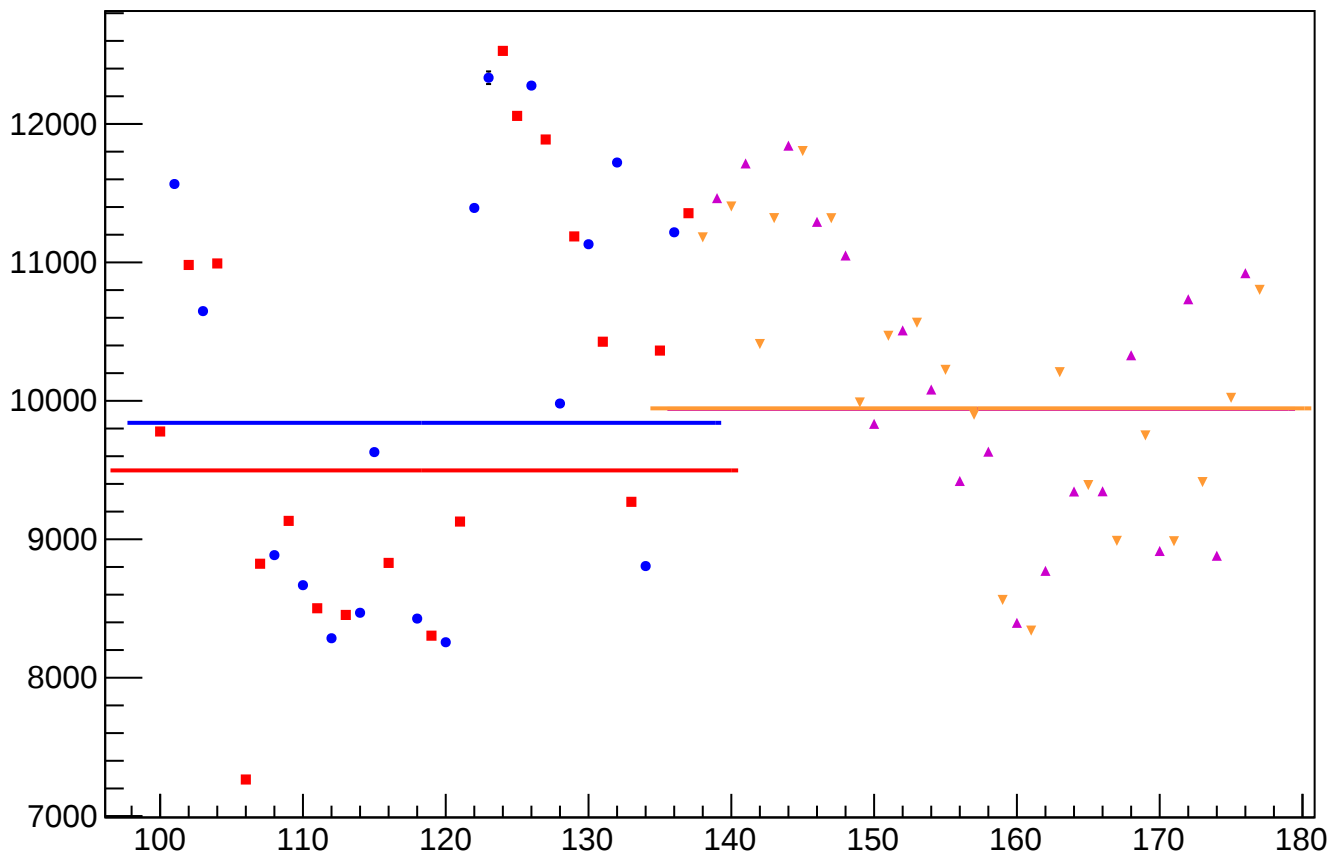
Right: 17.418 $\pm$ 2.623 χ^2/NDF : 82.3/35

In: -1.207 $\pm$ 2.167 χ^2/NDF : 137.1/35

Out: -1.692 $\pm$ 2.067 χ^2/NDF : 68.9/39

All: -1.461 $\pm$ 1.496 χ^2/NDF : 206.0/75

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9841.174 $\pm$ 2.713 χ^2 /NDF: 260062.4/16

Left Out: 9945.723 $\pm$ 1.787 χ^2 /NDF: 292061.8/20

Right Out: 9497.483 $\pm$ 2.542 χ^2 /NDF: 276700.1/18

Left In: 9941.437 $\pm$ 1.857 χ^2 /NDF: 309338.7/18

Left: 9943.662 $\pm$ 1.288 χ^2 /NDF: 601403.3/39

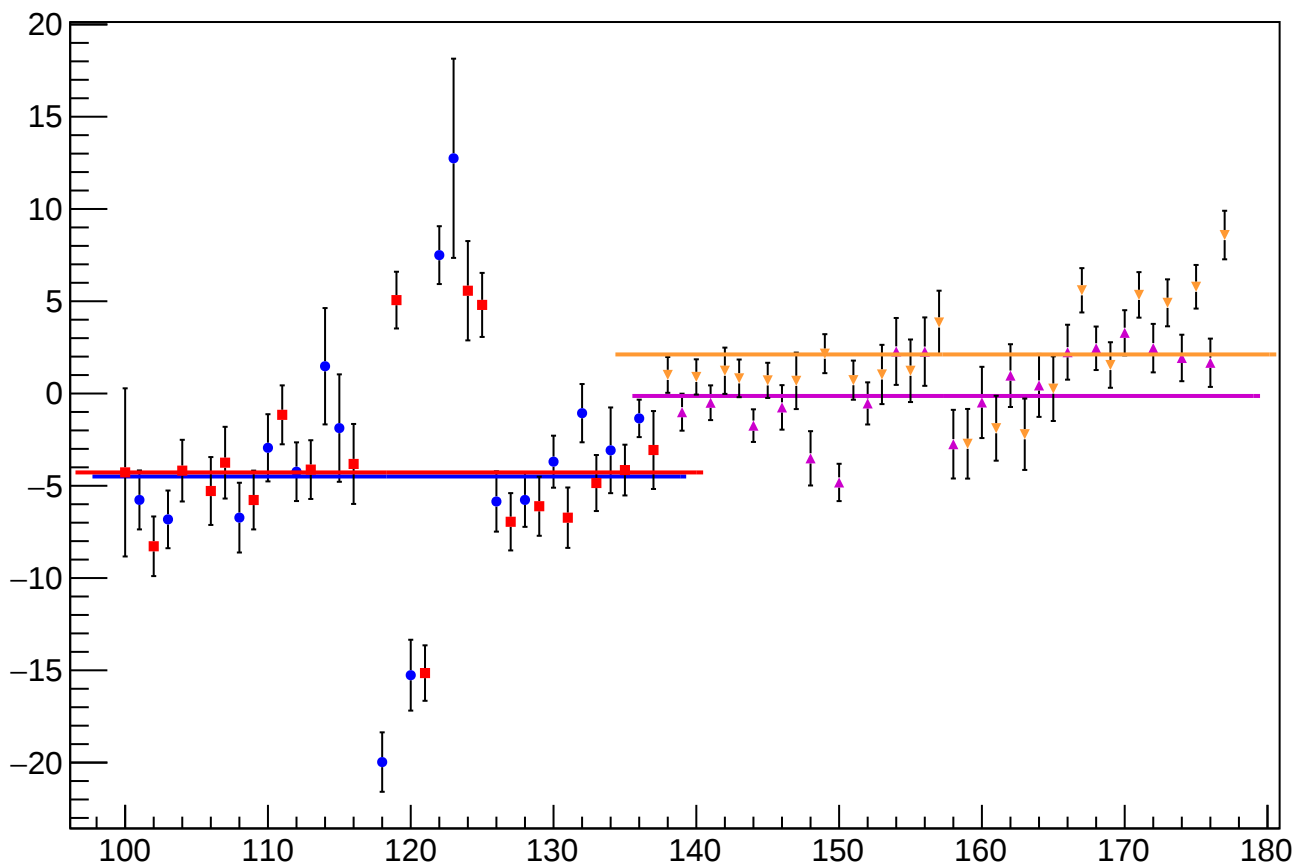
Right: 9658.117 $\pm$ 1.855 χ^2 /NDF: 545307.6/35

In: 9909.463 $\pm$ 1.532 χ^2 /NDF: 570331.0/35

Out: 9797.444 $\pm$ 1.462 χ^2 /NDF: 589572.7/39

All: 9850.821 $\pm$ 1.058 χ^2 /NDF: 1162701.3/75

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 2.117 ± 0.275 χ^2/NDF : 83.5/20

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

Left In: -0.133 ± 0.291 χ^2/NDF : 61.0/18

Left: 1.059 ± 0.200 χ^2/NDF : 176.1/39

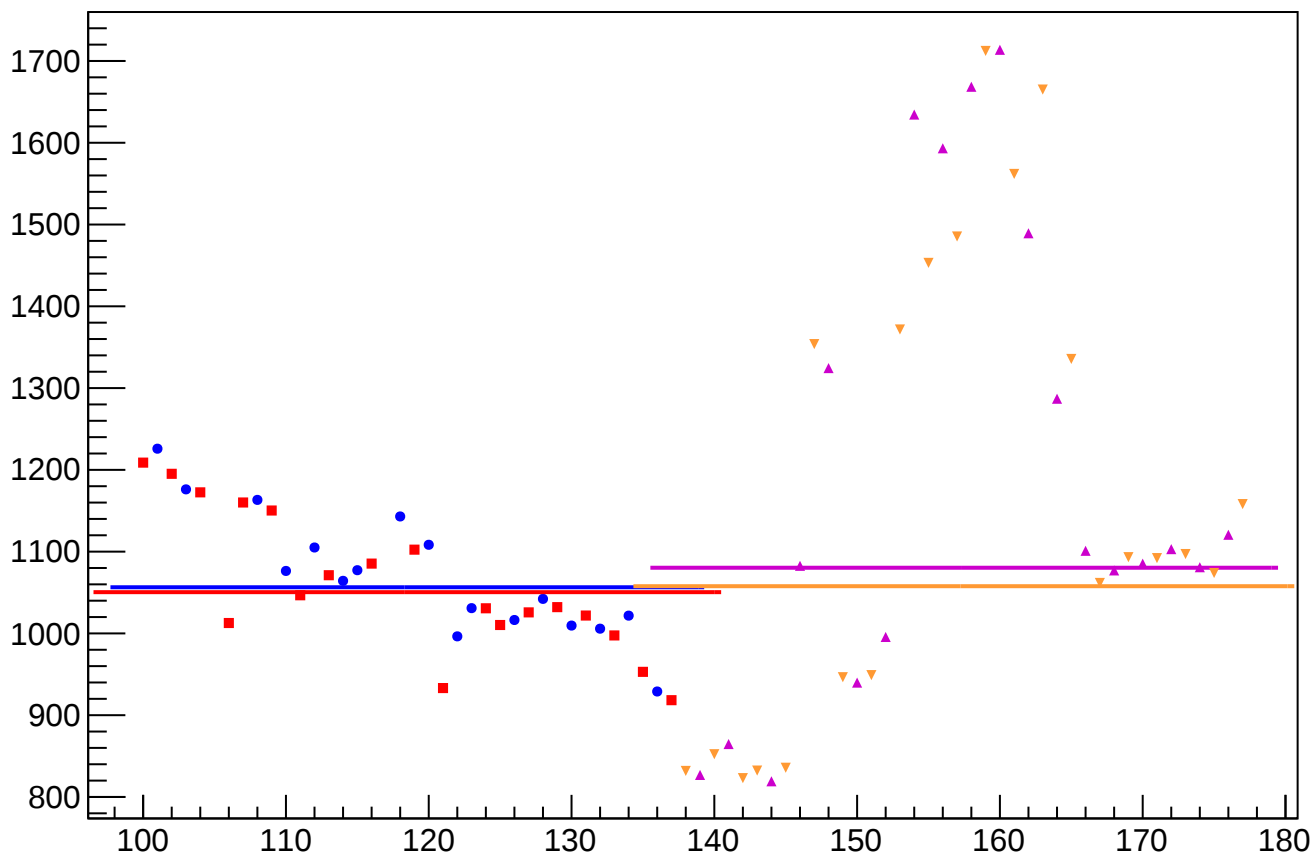
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -1.606 ± 0.237 χ^2/NDF : 355.1/35

Out: 0.026 ± 0.225 χ^2/NDF : 409.1/39

All: -0.748 ± 0.163 χ^2/NDF : 789.1/75

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1057.729 $\pm$ 0.194 χ^2/NDF : 1573400.2/20

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

Left In: 1080.310 $\pm$ 0.206 χ^2/NDF : 1415134.9/18

Left: 1068.351 $\pm$ 0.141 χ^2/NDF : 2994894.8/39

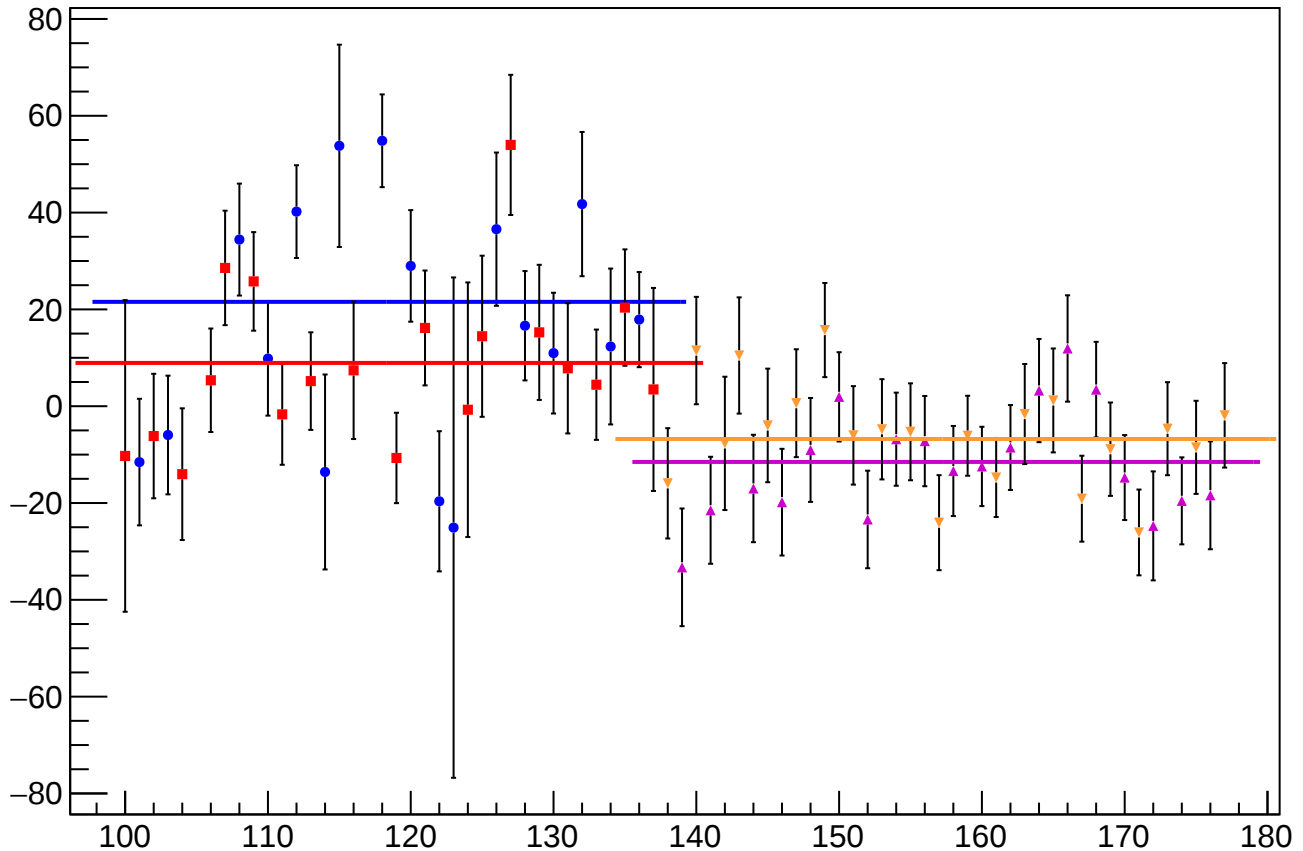
Right: 1053.333 $\pm$ 0.200 χ^2/NDF : 173392.8/35

In: 1072.249 $\pm$ 0.168 χ^2/NDF : 1510440.1/35

Out: 1055.346 $\pm$ 0.159 χ^2/NDF : 1656257.2/39

All: 1063.363 $\pm$ 0.116 χ^2/NDF : 3172037.4/75

diff_bpm0l08X_mean vs Slug, Sign Corrected



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

Left Out: -6.769+/-2.196 χ^2/NDF : 23.2/20

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

Left In: -11.513+/-2.282 χ^2/NDF : 20.5/18

Left: -9.050+/-1.582 χ^2/NDF : 45.9/39

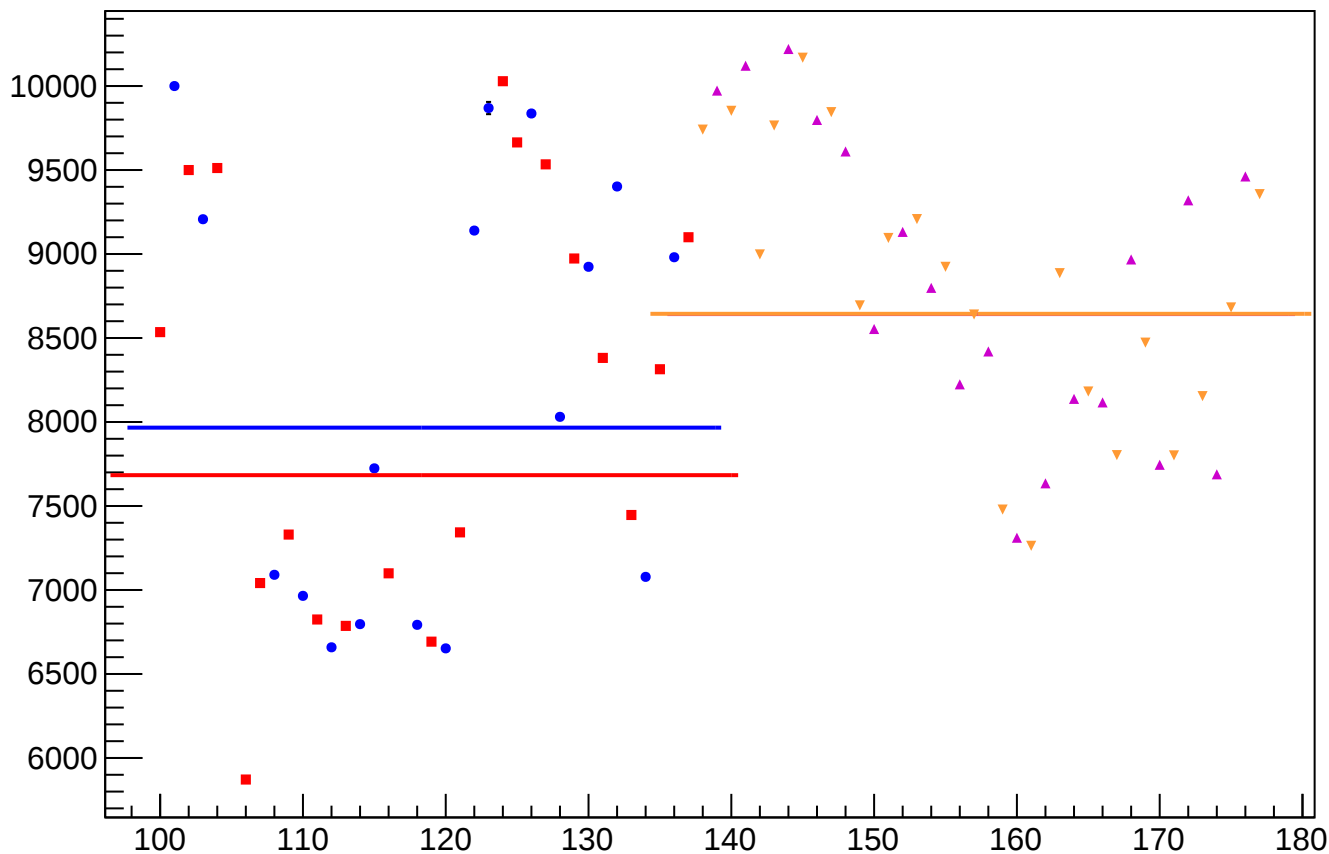
Right: 14.837+/-2.126 χ^2/NDF : 84.6/35

In: 0.062+/-1.840 χ^2/NDF : 142.4/35

Out: -1.072+/-1.753 χ^2/NDF : 69.2/39

All: -0.532+/-1.269 χ^2/NDF : 211.8/75

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8643.996+/-1.553 χ^2/NDF : 281840.5/20

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

Left In: 8642.460+/-1.614 χ^2/NDF : 300941.8/18

Left: 8643.258+/-1.119 χ^2/NDF : 582782.8/39

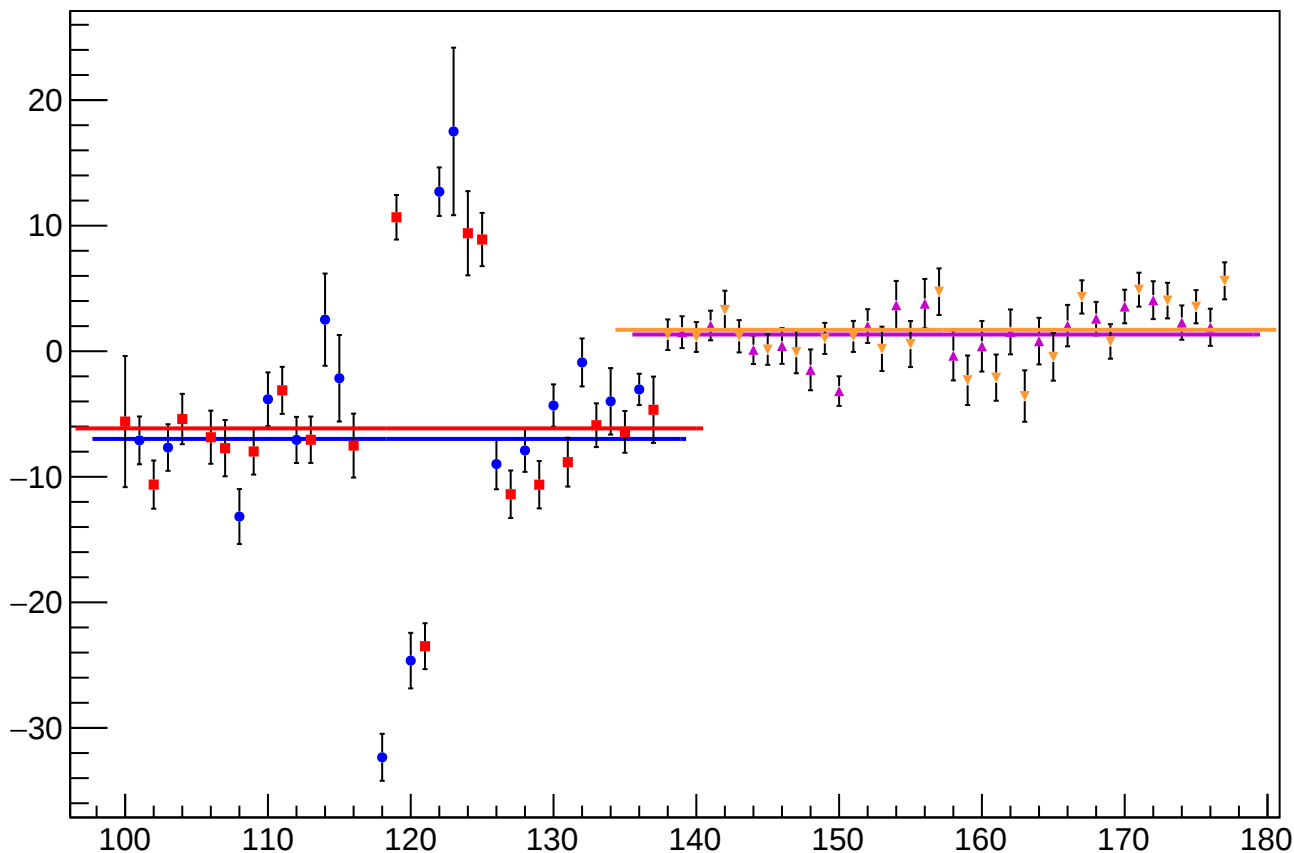
Right: 7815.627+/-1.503 χ^2/NDF : 620463.8/35

In: 8405.865+/-1.301 χ^2/NDF : 658973.3/35

Out: 8295.738+/-1.240 χ^2/NDF : 735590.4/39

All: 8348.147+/-0.898 χ^2/NDF : 1398318.5/75

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 1.706 ± 0.318 $\chi^2/\text{NDF}: 46.6/20$

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

Left In: 1.332 ± 0.337 $\chi^2/\text{NDF}: 31.6/18$

Left: 1.530 ± 0.231 $\chi^2/\text{NDF}: 78.8/39$

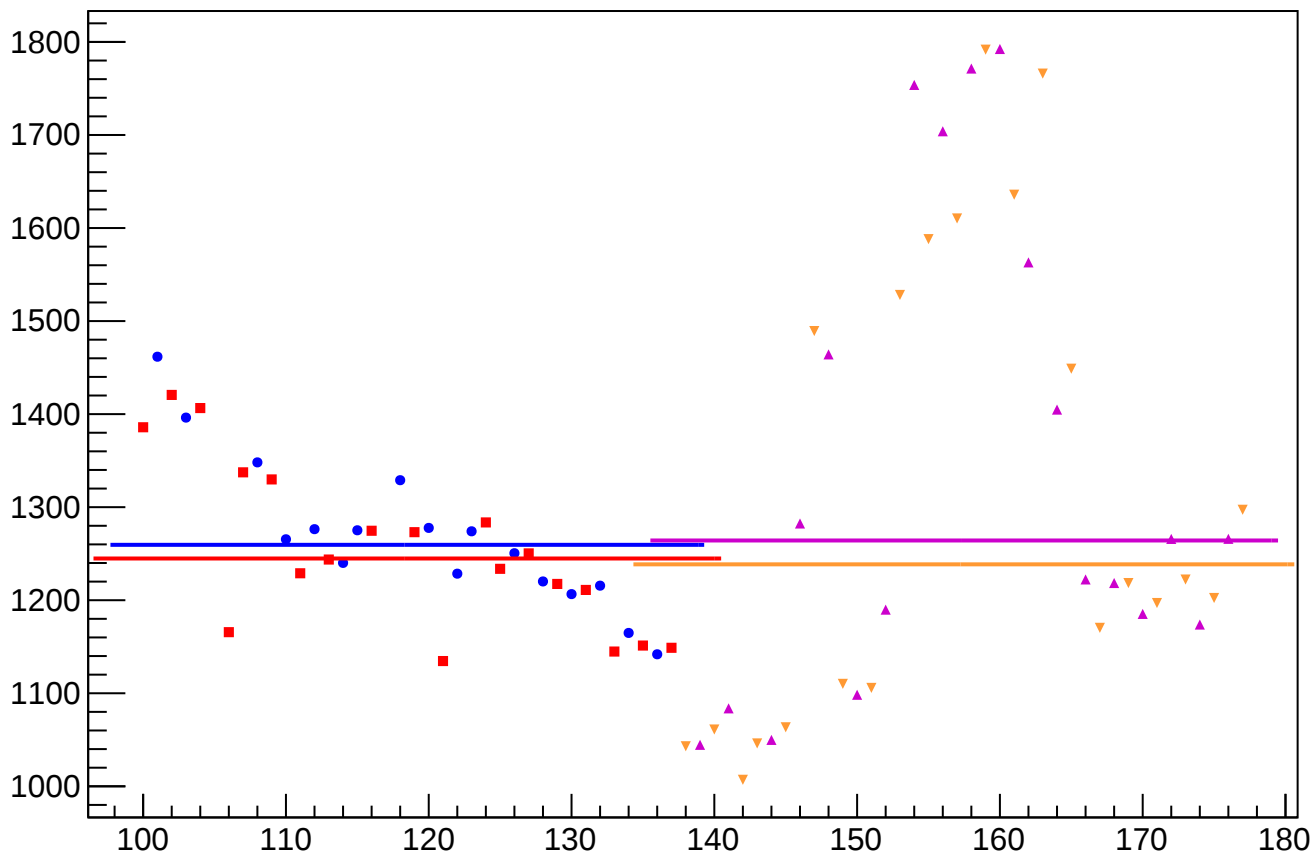
Right: -6.547 ± 0.337 $\chi^2/\text{NDF}: 687.6/35$

In: -1.365 ± 0.277 $\chi^2/\text{NDF}: 637.8/35$

Out: -0.782 ± 0.263 $\chi^2/\text{NDF}: 517.4/39$

All: -1.058 ± 0.191 $\chi^2/\text{NDF}: 1157.6/75$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1238.557 $\pm$ 0.225 χ^2/NDF : 943966.1/20

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

Left In: 1264.203 $\pm$ 0.238 χ^2/NDF : 839442.3/18

Left: 1250.634 $\pm$ 0.163 χ^2/NDF : 1789542.5/39

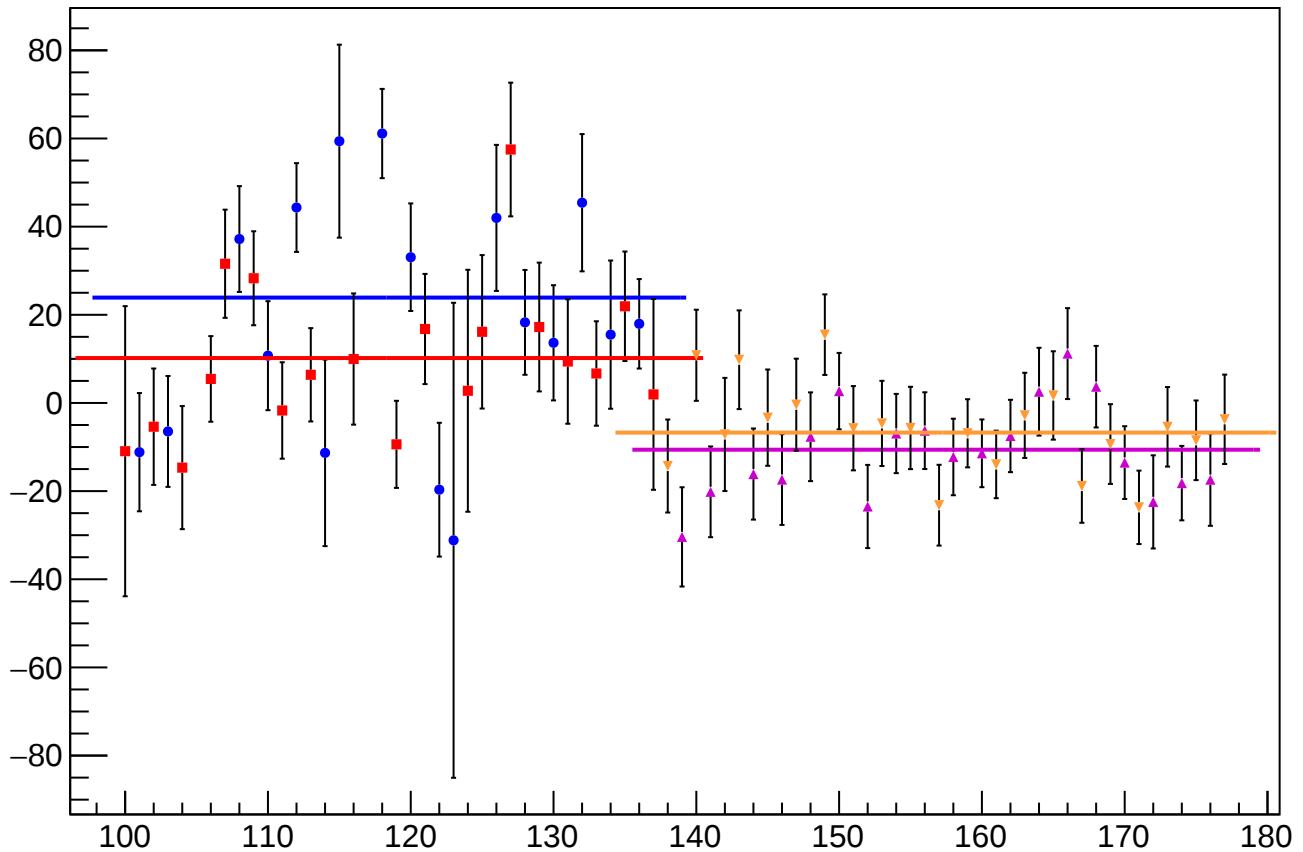
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

In: 1262.688 $\pm$ 0.196 χ^2/NDF : 904411.6/35

Out: 1240.547 $\pm$ 0.186 χ^2/NDF : 1011039.5/39

All: 1251.034 $\pm$ 0.135 χ^2/NDF : 1922182.5/75

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

Left Out: -6.722 ± 2.056 $\chi^2/\text{NDF}: 23.5/20$

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

Left In: -10.605 ± 2.136 $\chi^2/\text{NDF}: 20.8/18$

Left: -8.589 ± 1.481 $\chi^2/\text{NDF}: 46.0/39$

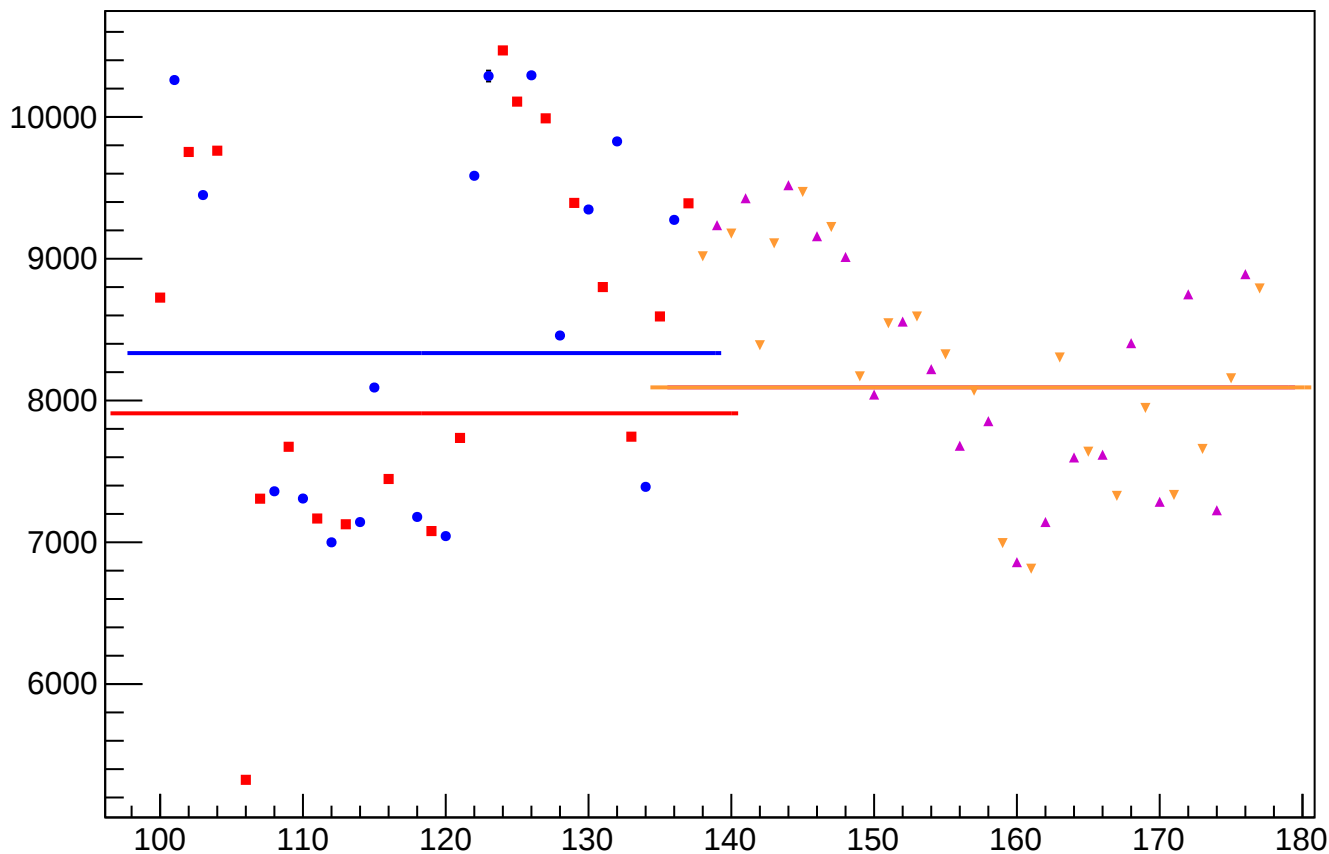
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: -0.195 ± 1.785 $\chi^2/\text{NDF}: 151.9/35$

Out: -1.333 ± 1.697 $\chi^2/\text{NDF}: 73.0/39$

All: -0.793 ± 1.230 $\chi^2/\text{NDF}: 225.2/75$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8092.596 $\pm$ 1.453 χ^2 /NDF: 270818.6/20

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

Left In: 8092.842 $\pm$ 1.511 χ^2 /NDF: 290959.6/18

Left: 8092.714 $\pm$ 1.047 χ^2 /NDF: 561778.3/39

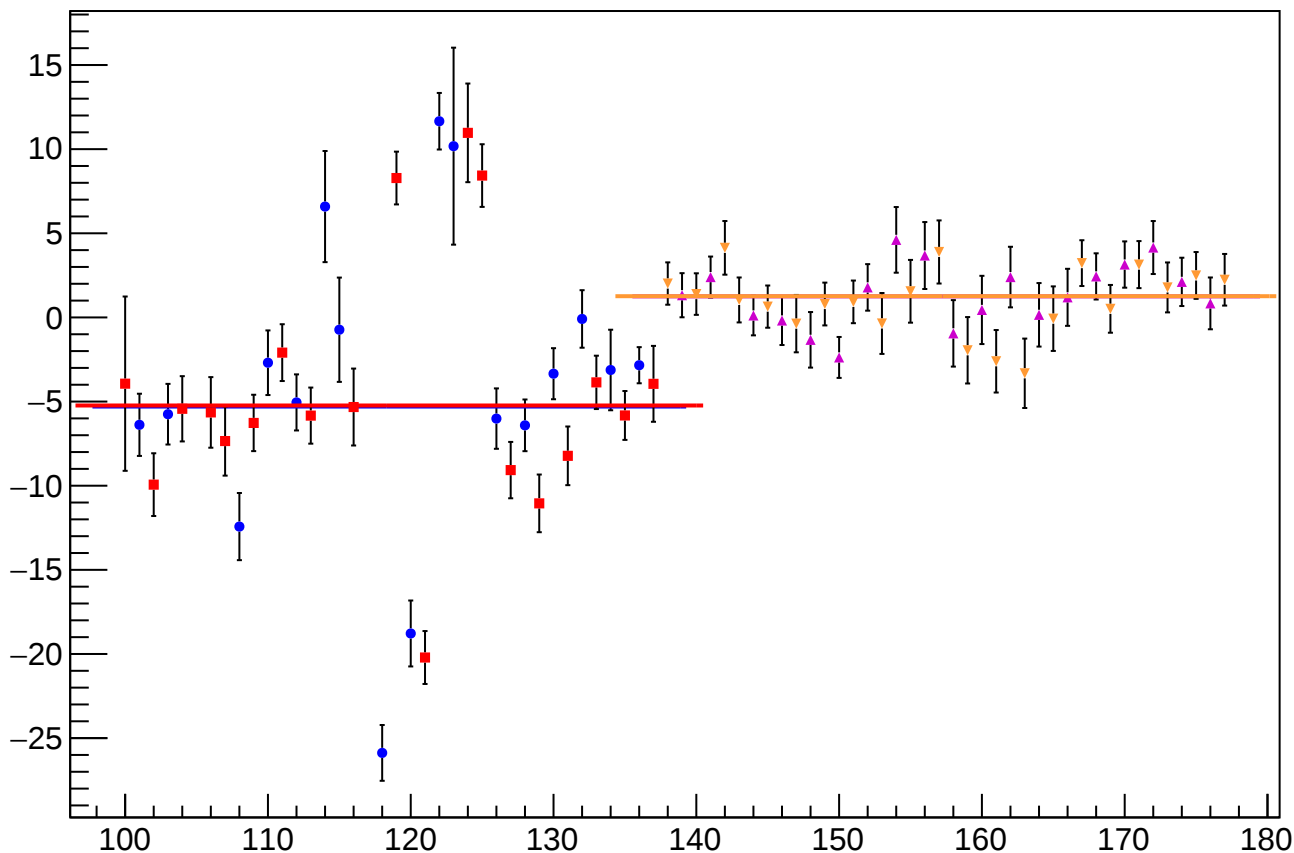
Right: 8105.450 $\pm$ 1.560 χ^2 /NDF: 681543.4/35

In: 8165.747 $\pm$ 1.262 χ^2 /NDF: 570981.8/35

Out: 8034.287 $\pm$ 1.200 χ^2 /NDF: 666688.2/39

All: 8096.670 $\pm$ 0.870 χ^2 /NDF: 1243367.6/75

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 1.262 ± 0.327 χ^2/NDF : 25.7/20

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

Left In: 1.252 ± 0.346 χ^2/NDF : 27.3/18

Left: 1.257 ± 0.238 χ^2/NDF : 53.0/39

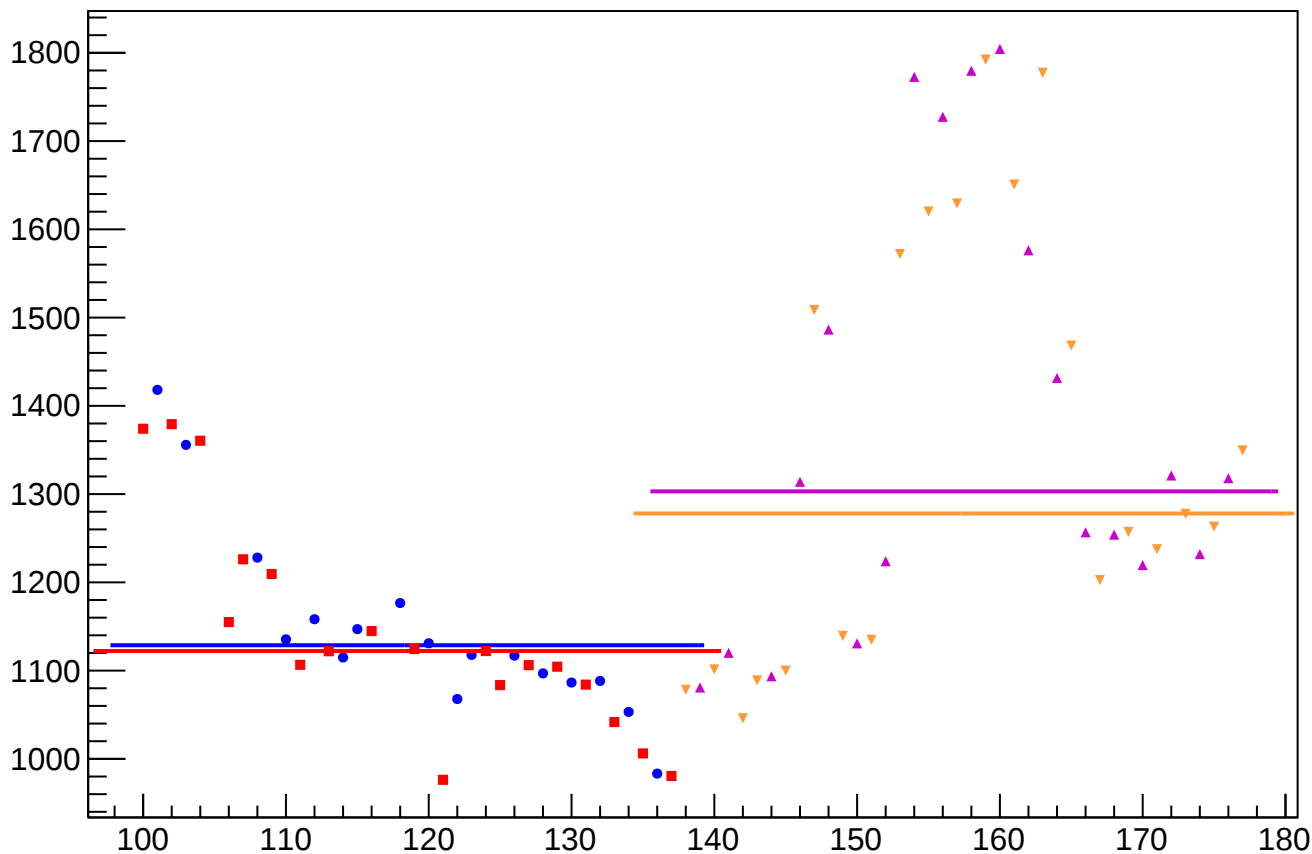
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -1.276 ± 0.271 χ^2/NDF : 523.3/35

Out: -1.180 ± 0.259 χ^2/NDF : 455.7/39

All: -1.225 ± 0.187 χ^2/NDF : 979.1/75

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1278.002 ± 0.231 $\chi^2/\text{NDF}: 856591.2/20$

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

Left In: 1303.091 ± 0.245 $\chi^2/\text{NDF}: 754450.2/18$

Left: 1289.831 ± 0.168 $\chi^2/\text{NDF}: 1616584.6/39$

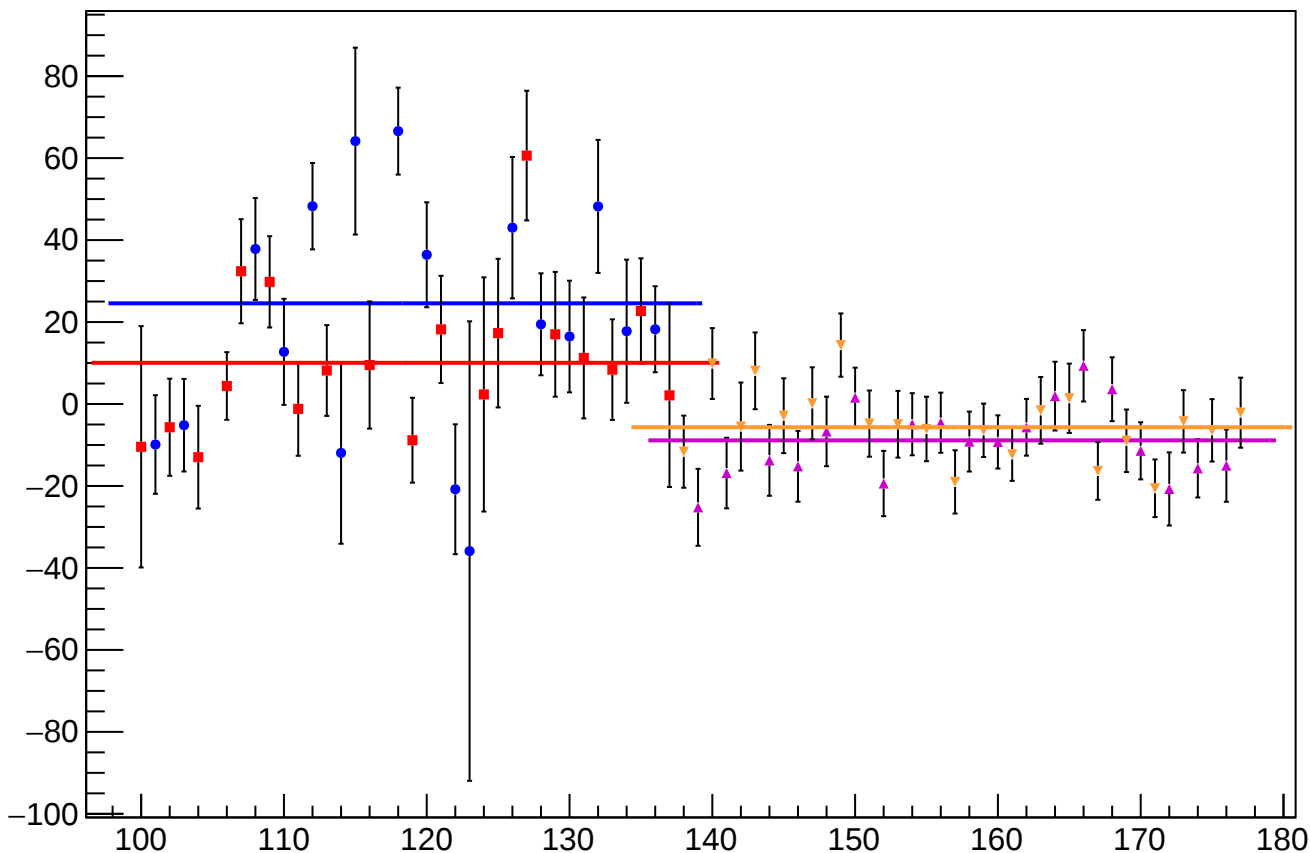
Right: 1125.374 ± 0.215 $\chi^2/\text{NDF}: 262927.9/35$

In: 1235.767 ± 0.192 $\chi^2/\text{NDF}: 1083116.7/35$

Out: 1219.452 ± 0.183 $\chi^2/\text{NDF}: 1156533.6/39$

All: 1227.211 ± 0.132 $\chi^2/\text{NDF}: 2243438.5/75$

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

Left Out: -5.663 ± 1.731 $\chi^2/\text{NDF}: 25.3/20$

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

Left In: -8.869 ± 1.800 $\chi^2/\text{NDF}: 21.3/18$

Left: -7.204 ± 1.248 $\chi^2/\text{NDF}: 48.3/39$

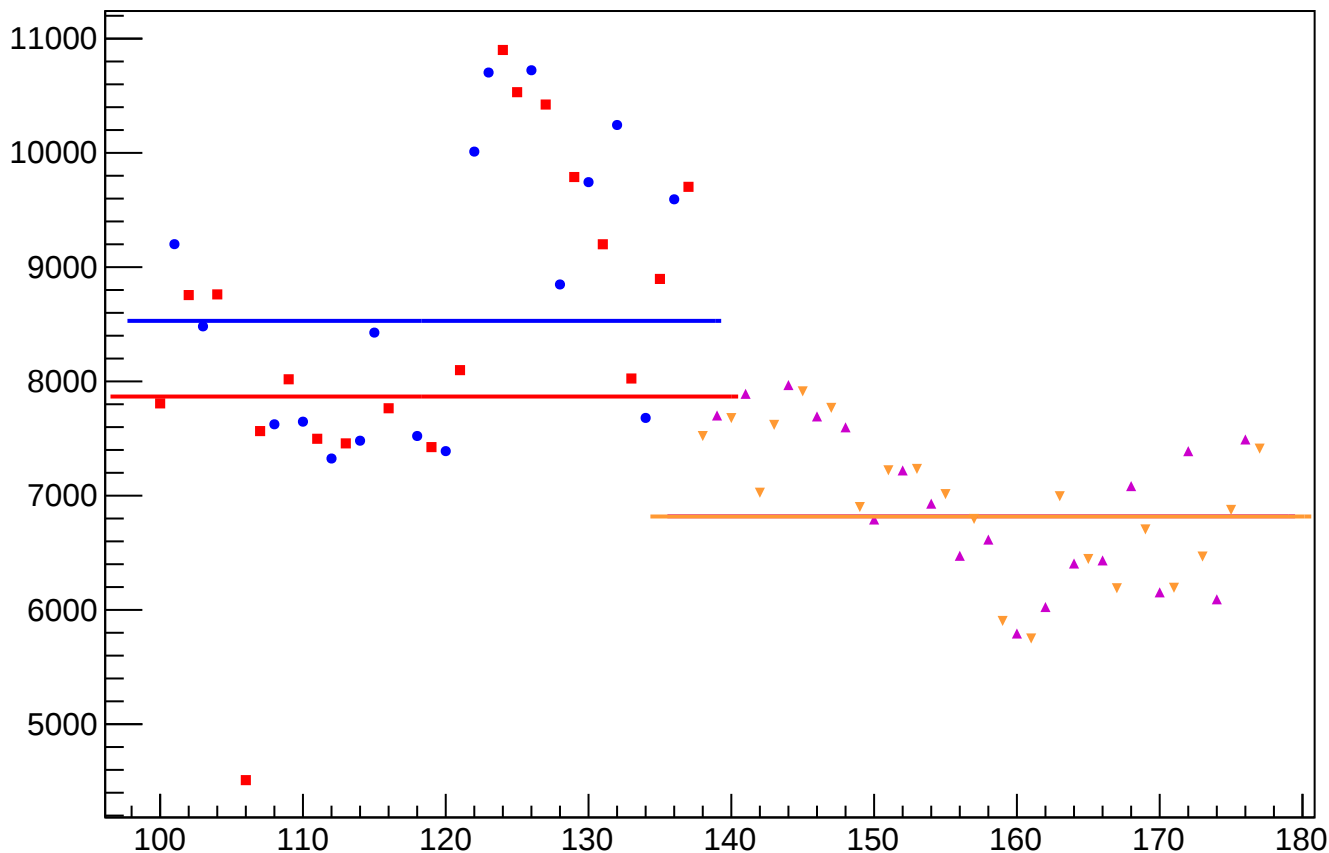
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

In: -1.268 ± 1.582 $\chi^2/\text{NDF}: 157.9/35$

Out: -1.751 ± 1.500 $\chi^2/\text{NDF}: 74.7/39$

All: -1.523 ± 1.089 $\chi^2/\text{NDF}: 232.6/75$

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6817.604+/-1.224 χ^2/NDF : 256696.1/20

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

Left In: 6819.675+/-1.273 χ^2/NDF : 278892.8/18

Left: 6818.600+/-0.882 χ^2/NDF : 535590.2/39

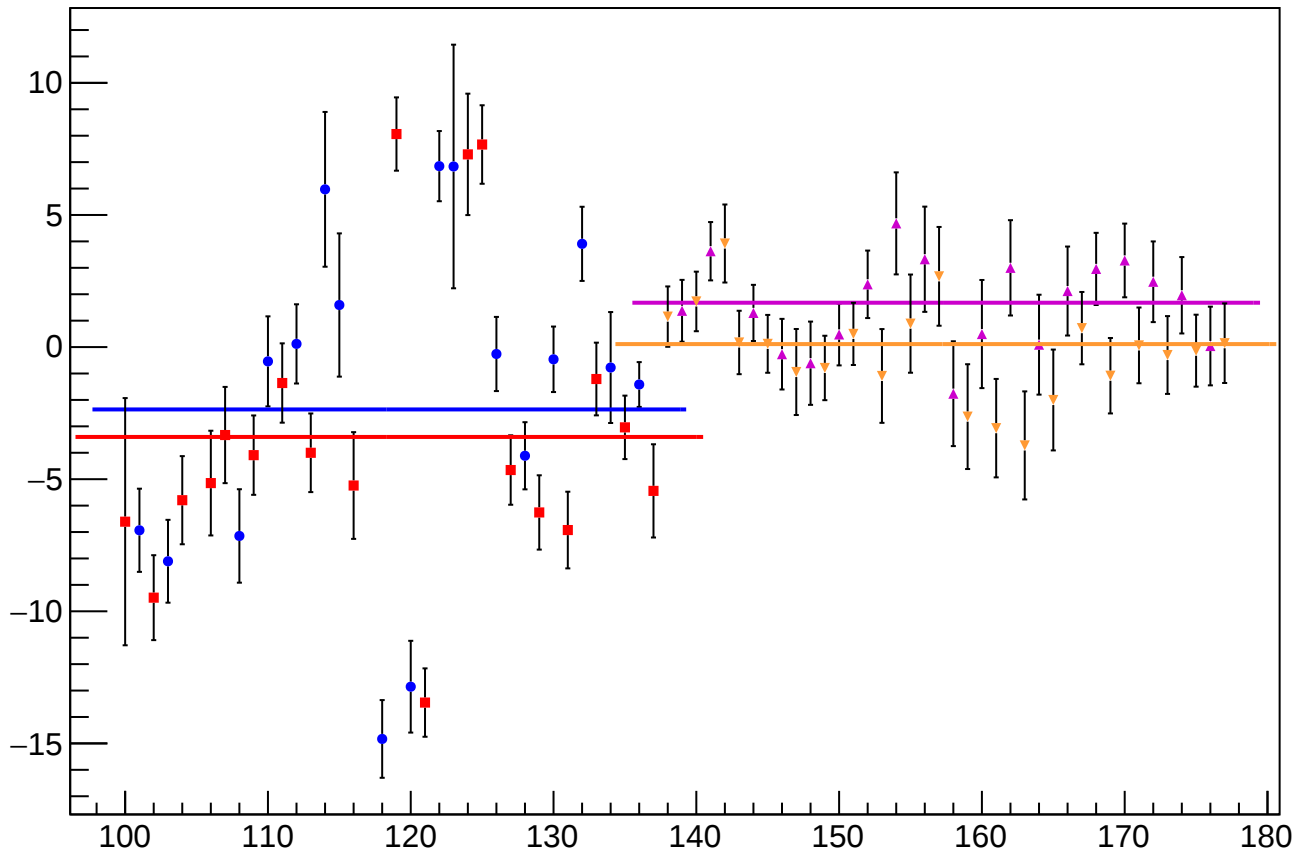
Right: 8166.253+/-1.576 χ^2/NDF : 807907.7/35

In: 7208.414+/-1.119 χ^2/NDF : 897669.5/35

Out: 7078.894+/-1.061 χ^2/NDF : 995627.4/39

All: 7140.222+/-0.770 χ^2/NDF : 1900354.0/75

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

Left Out: 0.113 ± 0.313 χ^2/NDF : 23.7/20

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

Left In: 1.679 ± 0.331 χ^2/NDF : 20.4/18

Left: 0.851 ± 0.228 χ^2/NDF : 55.9/39

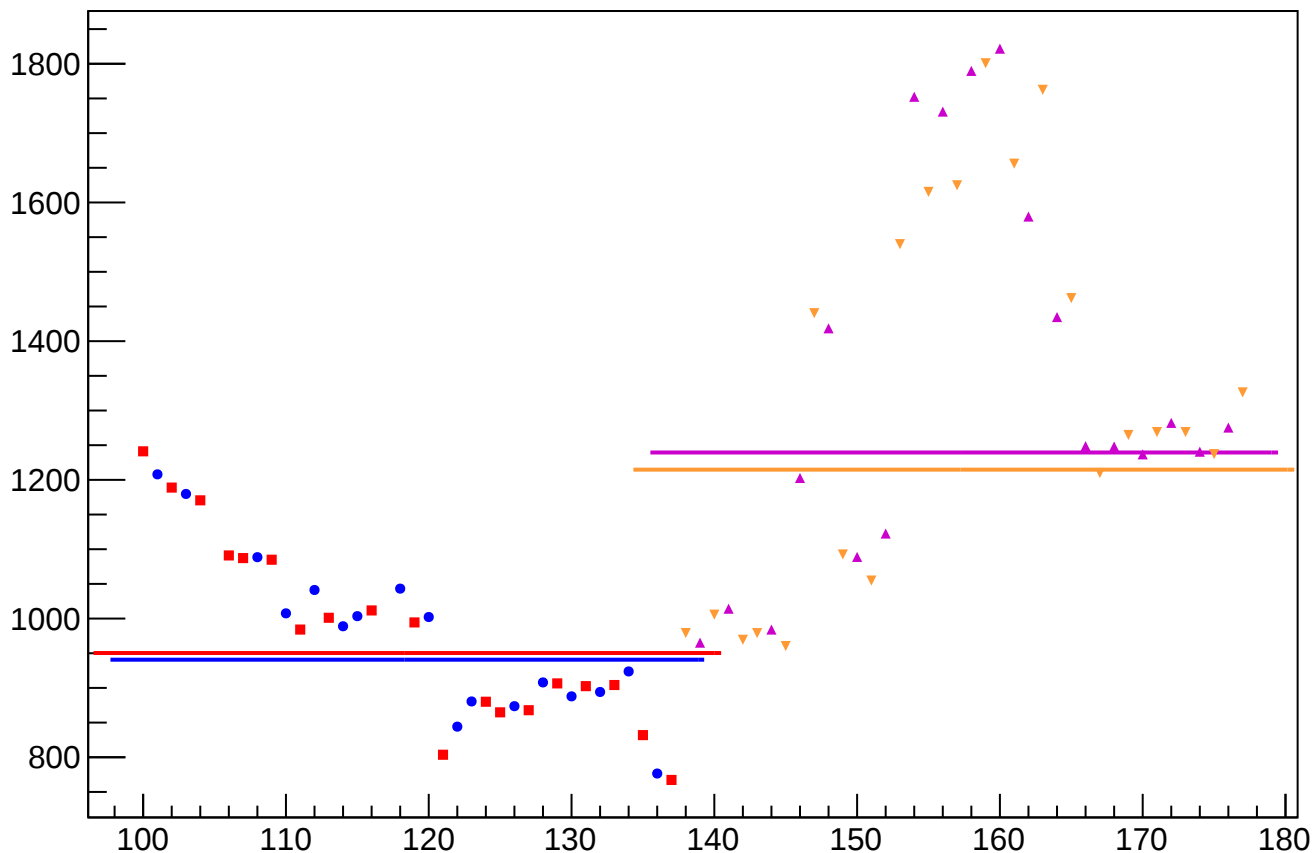
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.143 ± 0.246 χ^2/NDF : 319.4/35

Out: -1.408 ± 0.236 χ^2/NDF : 319.7/39

All: -0.802 ± 0.170 χ^2/NDF : 652.9/75

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1214.740 $\pm$ 0.221 χ^2/NDF :1229420.7/20

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

Left In: 1239.475 $\pm$ 0.234 χ^2/NDF :1060017.0/18

Left: 1226.396 $\pm$ 0.161 χ^2/NDF : 2295327.6/39

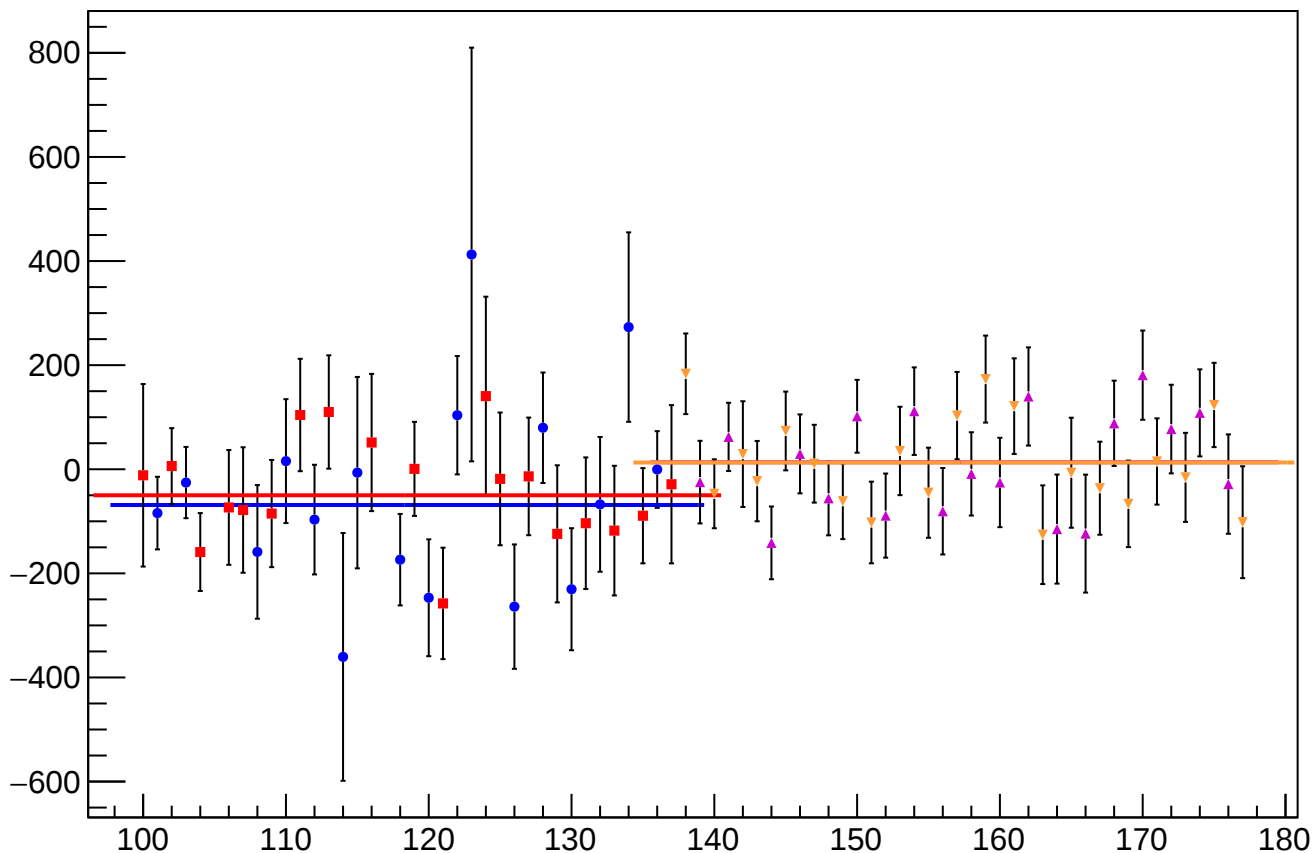
Right: 945.597 $\pm$ 0.181 χ^2/NDF : 463155.1/35

In: 1104.668 $\pm$ 0.174 χ^2/NDF :2035138.8/35

Out: 1100.295 $\pm$ 0.167 χ^2/NDF :2068285.4/39

All: 1102.392 $\pm$ 0.120 χ^2/NDF : 4103754.4/75

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 ± 25.946 χ^2/NDF : 21.8/16

Left Out: 12.996 ± 18.159 χ^2/NDF : 23.0/20

Right Out: -49.958 ± 25.020 χ^2/NDF : 14.0/18

Left In: 13.444 ± 18.699 χ^2/NDF : 24.3/18

Left: 13.214 ± 13.027 χ^2/NDF : 47.3/39

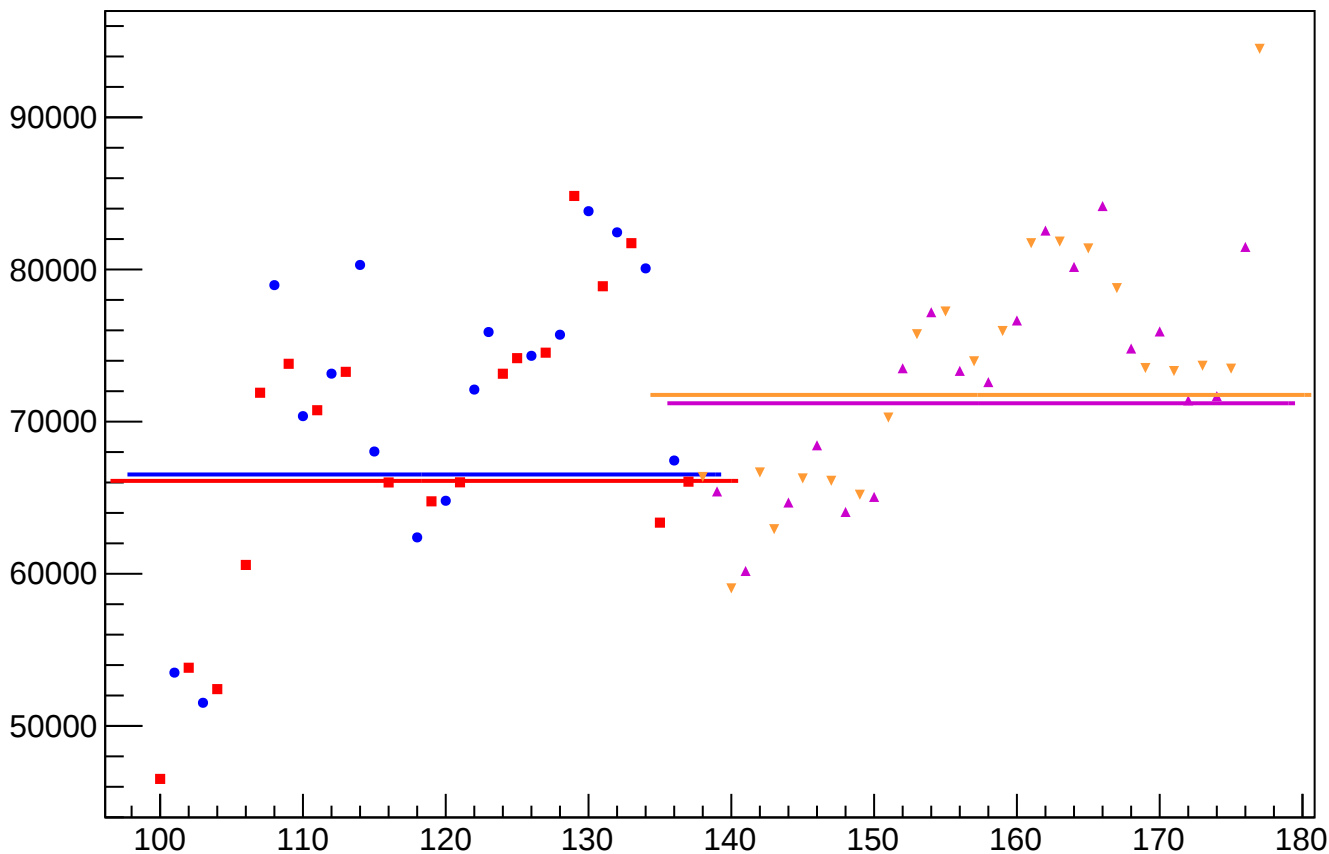
Right: -58.983 ± 18.010 χ^2/NDF : 36.0/35

In: -14.632 ± 15.170 χ^2/NDF : 52.6/35

Out: -8.725 ± 14.696 χ^2/NDF : 41.2/39

All: -11.585 ± 10.555 χ^2/NDF : 93.9/75

diff_bpm0r03X_rms vs Slug, Sign Corrected



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

Left Out: 71756.364+/-12.841 χ^2/NDF : 340633.9/20

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

Left In: 71207.228+/-13.222 χ^2/NDF : 247496.5/18

Left: 71489.831+/-9.212 χ^2/NDF : 589018.1/39

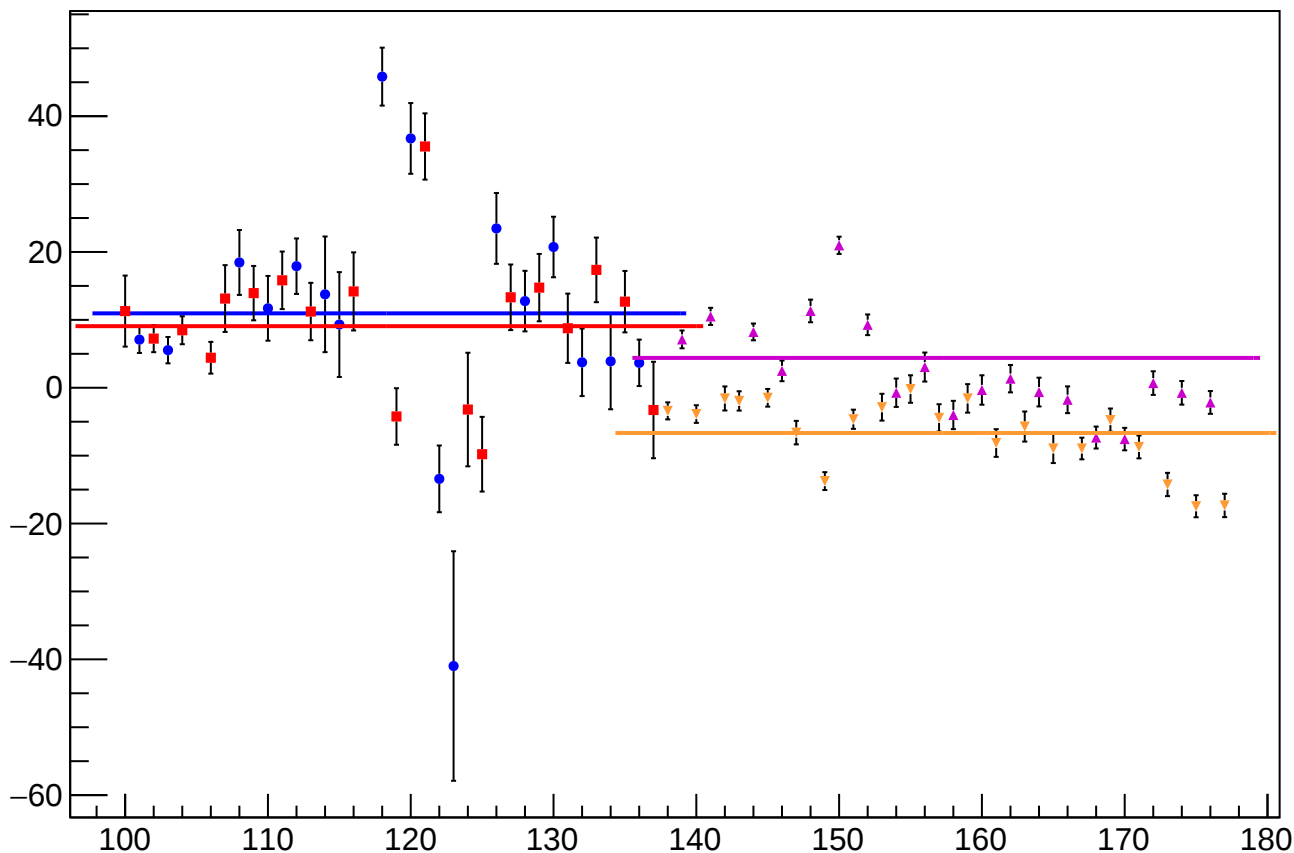
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 69607.430+/-10.727 χ^2/NDF : 611210.1/35

Out: 69806.756+/-10.392 χ^2/NDF : 705933.0/39

All: 69710.252+/-7.464 χ^2/NDF : 1317321.3/78

diff_bpm0r03Y_mean vs Slug, Sign Corrected



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

Left Out: -6.661 $\pm$ 0.358 χ^2/NDF : 207.2/20

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

Left In: 4.396 $\pm$ 0.376 χ^2/NDF : 415.5/18

Left: -1.402 $\pm$ 0.259 χ^2/NDF : 1077.3/39

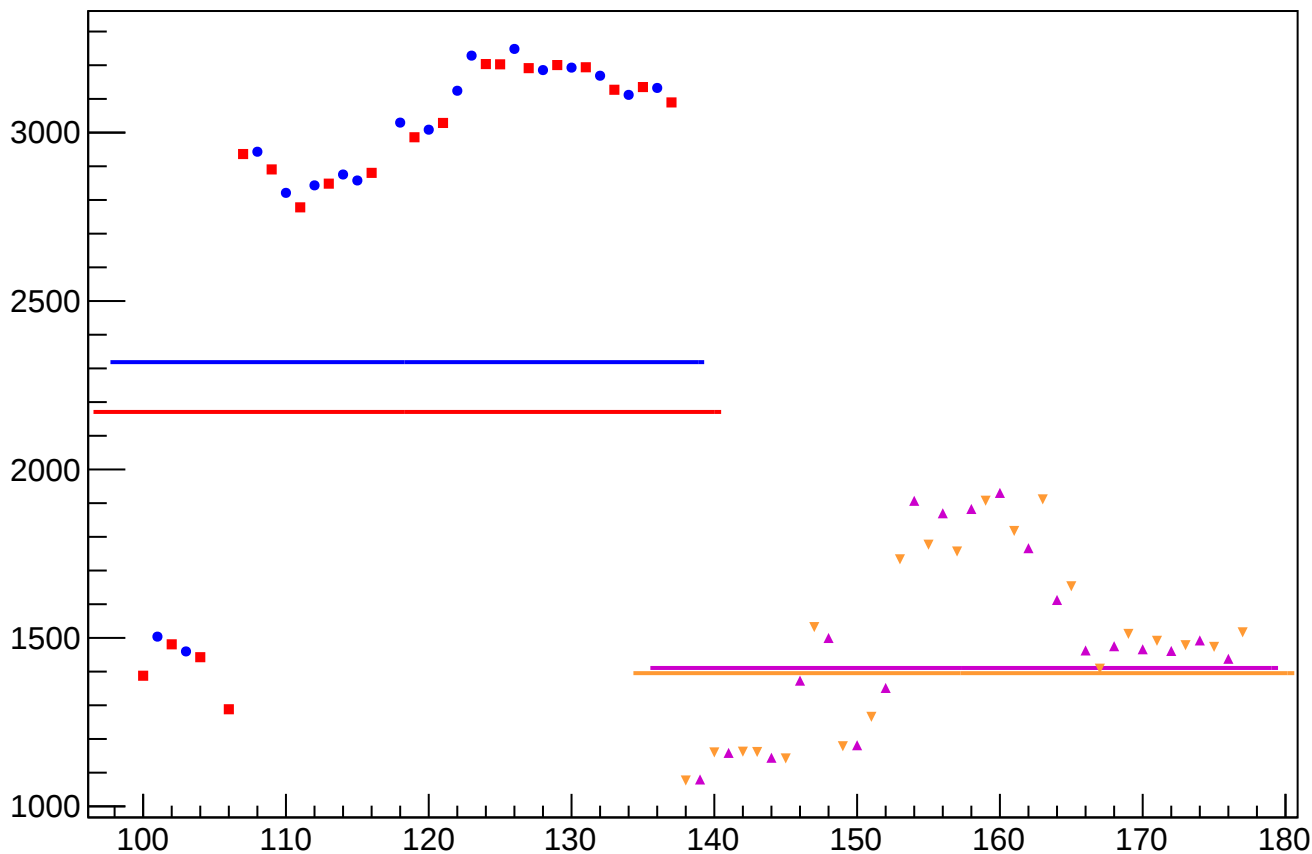
Right: 9.935 $\pm$ 0.638 χ^2/NDF : 236.2/35

In: 5.293 $\pm$ 0.349 χ^2/NDF : 618.2/35

Out: -4.370 $\pm$ 0.331 χ^2/NDF : 562.1/39

All: 0.202 $\pm$ 0.240 χ^2/NDF : 1584.5/75

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624 +/- 0.667 χ^2/NDF : 1408300.4/16

Left Out: 1395.380 +/- 0.253 χ^2/NDF : 1012339.1/20

Right Out: 2170.786 +/- 0.613 χ^2/NDF : 1753687.8/18

Left In: 1410.789 +/- 0.266 χ^2/NDF : 892276.2/18

Left: 1402.710 +/- 0.183 χ^2/NDF : 1906380.9/39

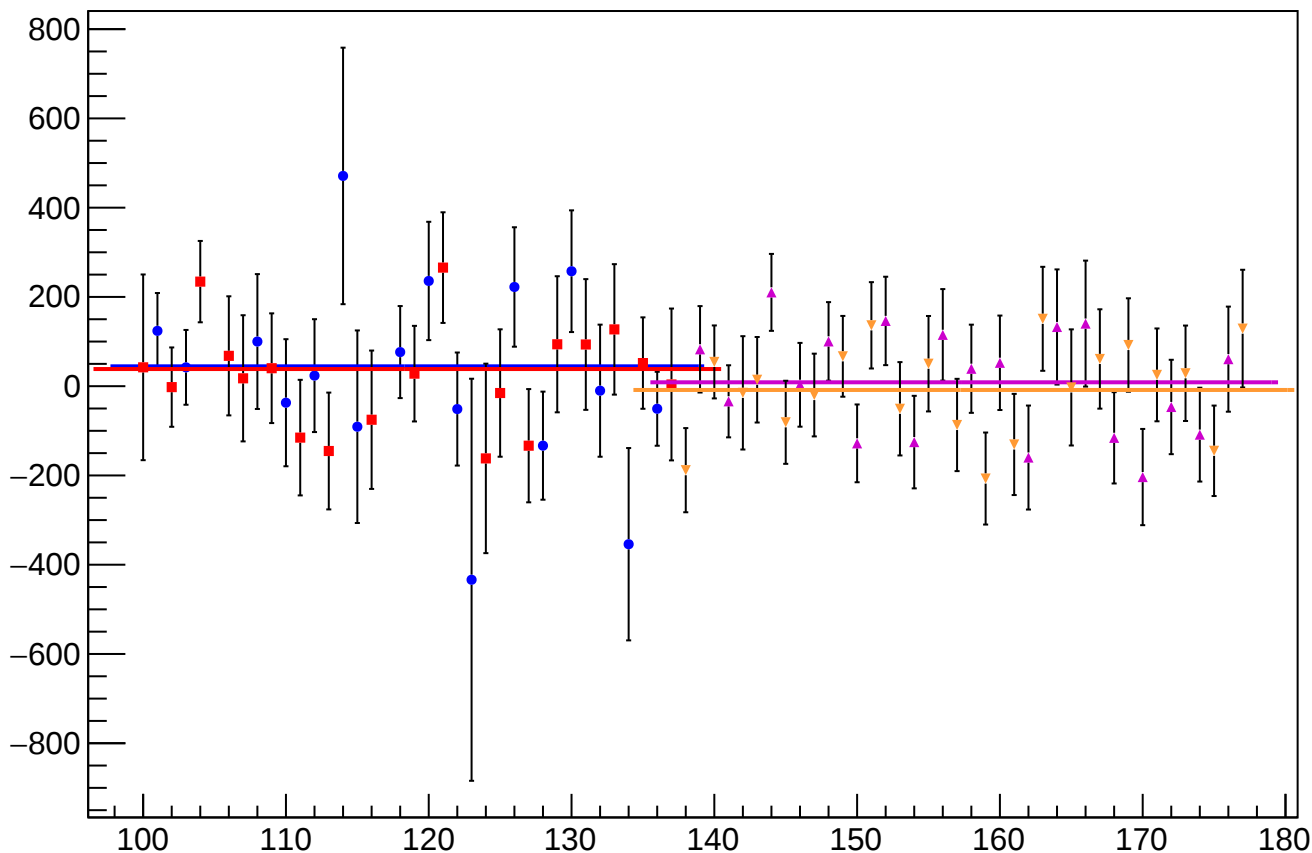
Right: 2238.439 +/- 0.451 χ^2/NDF : 3188639.4/35

In: 1534.998 +/- 0.247 χ^2/NDF : 3899965.6/35

Out: 1508.297 +/- 0.234 χ^2/NDF : 4134885.8/39

All: 1520.930 +/- 0.170 χ^2/NDF : 8041023.5/75

diff_bpm0r05X_mean vs Slug, Sign Corrected



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

Left Out: -8.472 $\pm$ 22.486 χ^2/NDF : 20.1/20

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

Left In: 8.709 $\pm$ 23.136 χ^2/NDF : 25.8/18

Left: -0.126 $\pm$ 16.125 χ^2/NDF : 46.1/39

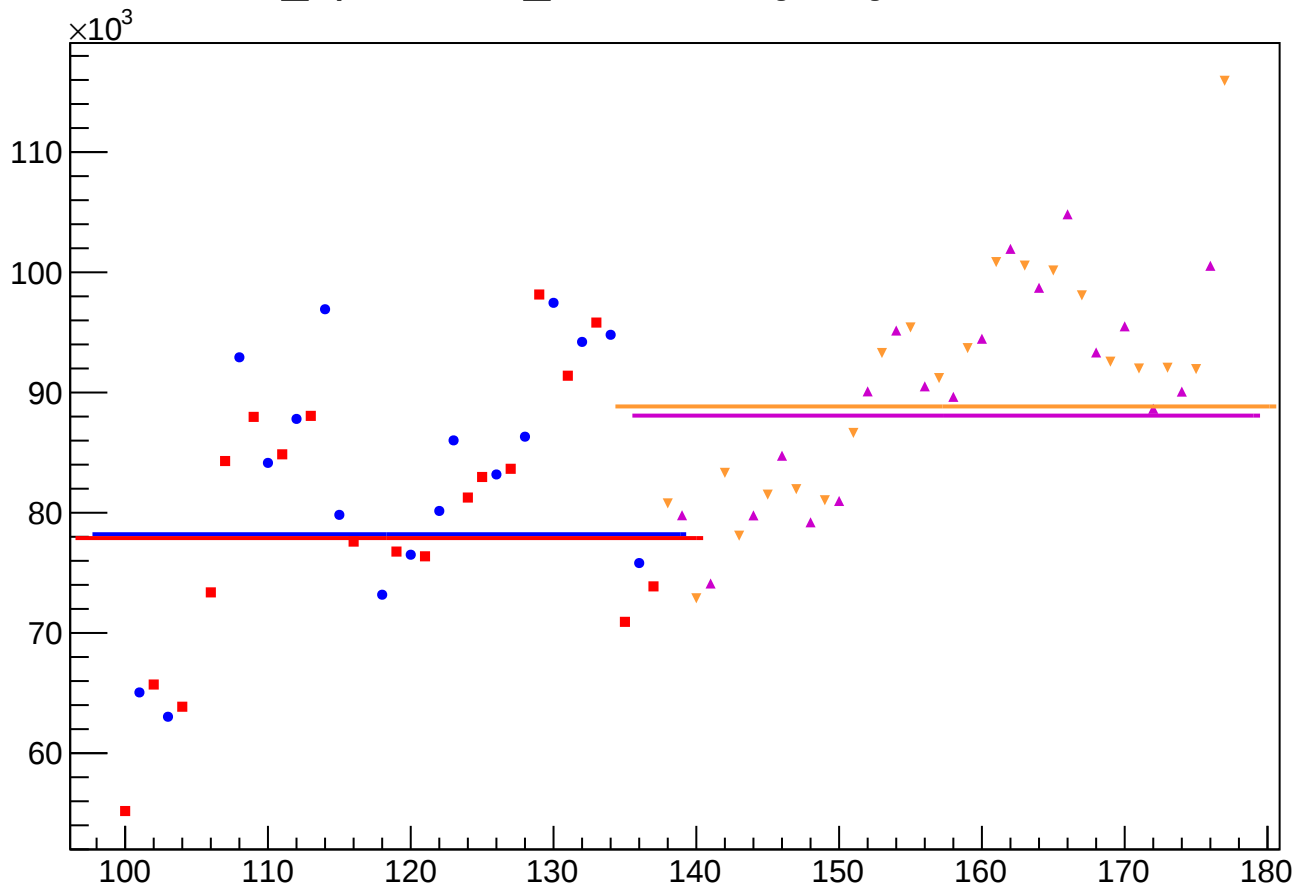
Right: 41.353 $\pm$ 21.157 χ^2/NDF : 34.9/35

In: 21.813 $\pm$ 18.418 χ^2/NDF : 45.7/35

Out: 8.810 $\pm$ 17.869 χ^2/NDF : 37.4/39

All: 15.115 $\pm$ 12.825 χ^2/NDF : 83.4/75

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025 $\pm$ 21.519 χ^2/NDF : 251056.7/16

Left Out: 88842.320 $\pm$ 15.900 χ^2/NDF : 339838.9/20

Right Out: 77891.938 $\pm$ 20.814 χ^2/NDF : 246970.2/18

Left In: 88080.190 $\pm$ 16.359 χ^2/NDF : 256248.9/18

Left: 88472.106 $\pm$ 11.402 χ^2/NDF : 597203.9/39

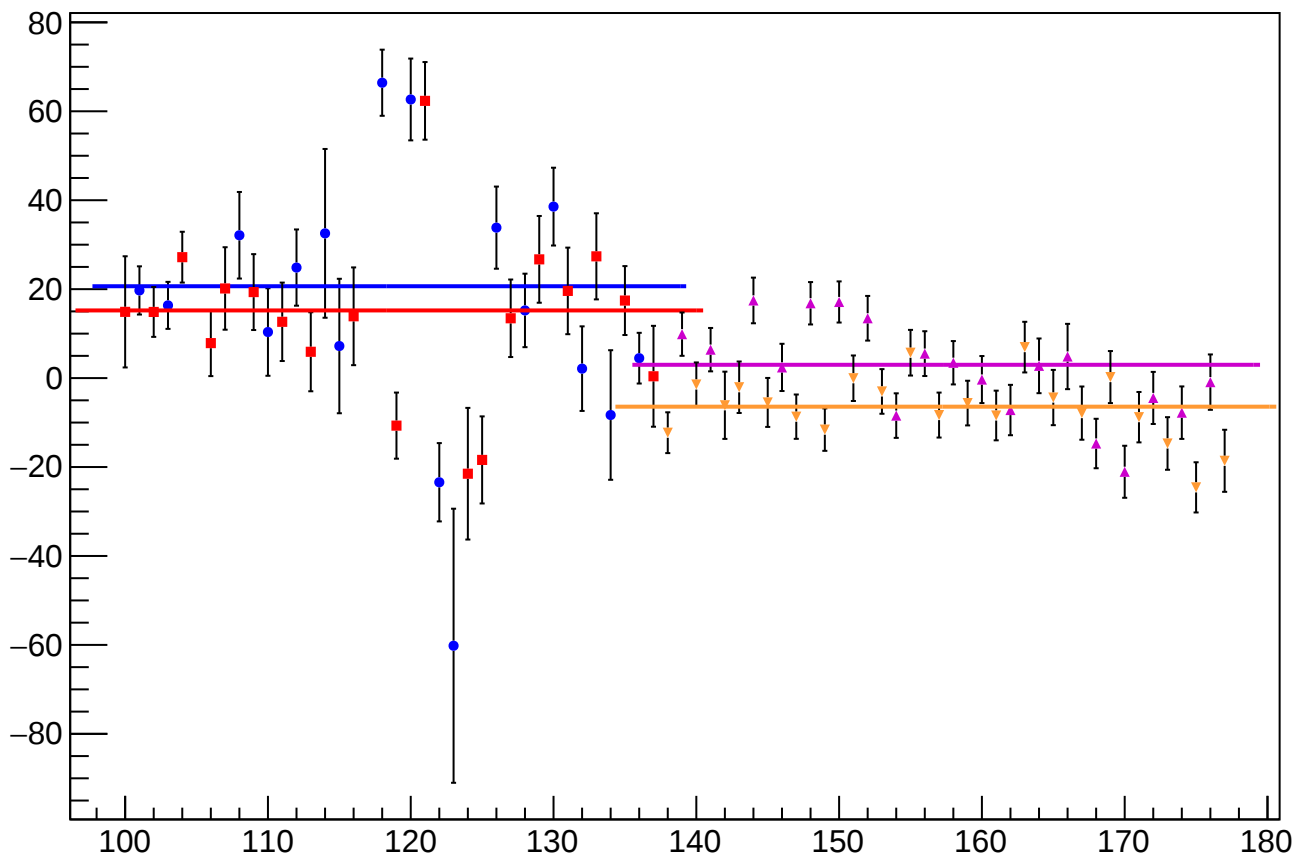
Right: 78047.137 $\pm$ 14.960 χ^2/NDF : 498141.9/35

In: 84466.085 $\pm$ 13.023 χ^2/NDF : 640553.5/35

Out: 84806.922 $\pm$ 12.635 χ^2/NDF : 761601.3/39

All: 84641.658 $\pm$ 9.068 χ^2/NDF : 1402507.7/77

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2 /NDF: 117.7/16

Left Out: -6.427 $\pm$ 1.191 χ^2 /NDF:35.0/20

Right Out: 15.216 $\pm$ 1.955 χ^2 /NDF: 71.3/18

Left In: 2.990 $\pm$ 1.225 χ^2 /NDF:74.1/18

Left: -1.850 $\pm$ 0.854 χ^2 /NDF: 139.5/39

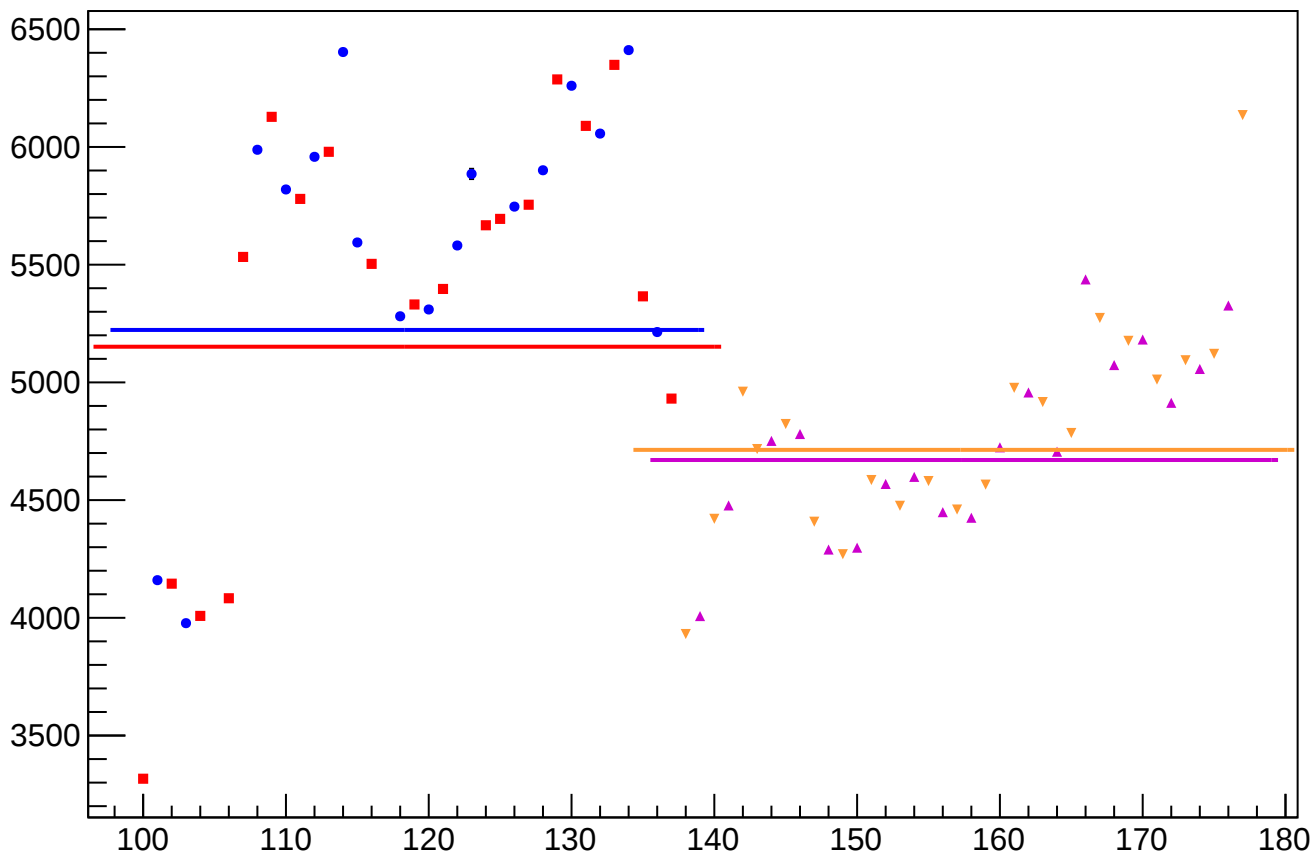
Right: 17.826 $\pm$ 1.410 χ^2 /NDF: 192.8/35

In: 7.686 $\pm$ 1.050 χ^2 /NDF:247.1/35

Out: -0.567 $\pm$ 1.017 χ^2 /NDF:195.7/39

All: 3.430 $\pm$ 0.730 χ^2 /NDF: 474.7/75

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 $\pm$ 1.440 χ^2/NDF : 312497.9/16

Left Out: 4713.417 $\pm$ 0.842 χ^2/NDF : 251294.0/20

Right Out: 5151.532 $\pm$ 1.382 χ^2/NDF : 387685.6/18

Left In: 4670.346 $\pm$ 0.866 χ^2/NDF : 164684.4/18

Left: 4692.485 $\pm$ 0.604 χ^2/NDF : 417249.4/39

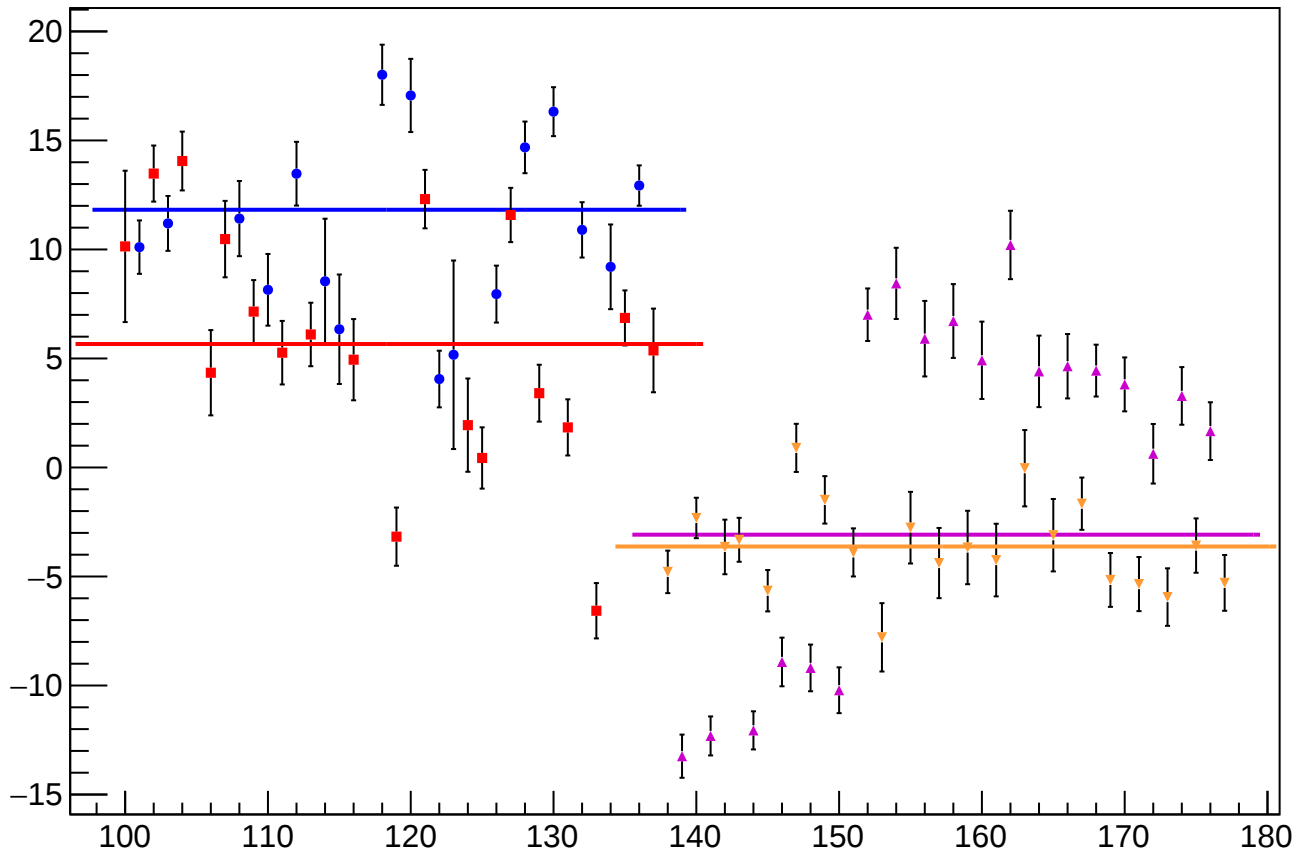
Right: 5185.701 $\pm$ 0.997 χ^2/NDF : 701457.6/35

In: 4817.178 $\pm$ 0.742 χ^2/NDF : 585296.6/35

Out: 4832.043 $\pm$ 0.719 χ^2/NDF : 712247.0/39

All: 4824.844 $\pm$ 0.516 χ^2/NDF : 1297750.5/75

diff_bpm2i01X_mean vs Slug, Sign Corrected



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

Left Out: -3.624 ± 0.269 $\chi^2/\text{NDF}: 51.7/20$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -3.082 ± 0.283 $\chi^2/\text{NDF}: 858.5/18$

Left: -3.367 ± 0.195 $\chi^2/\text{NDF}: 912.1/39$

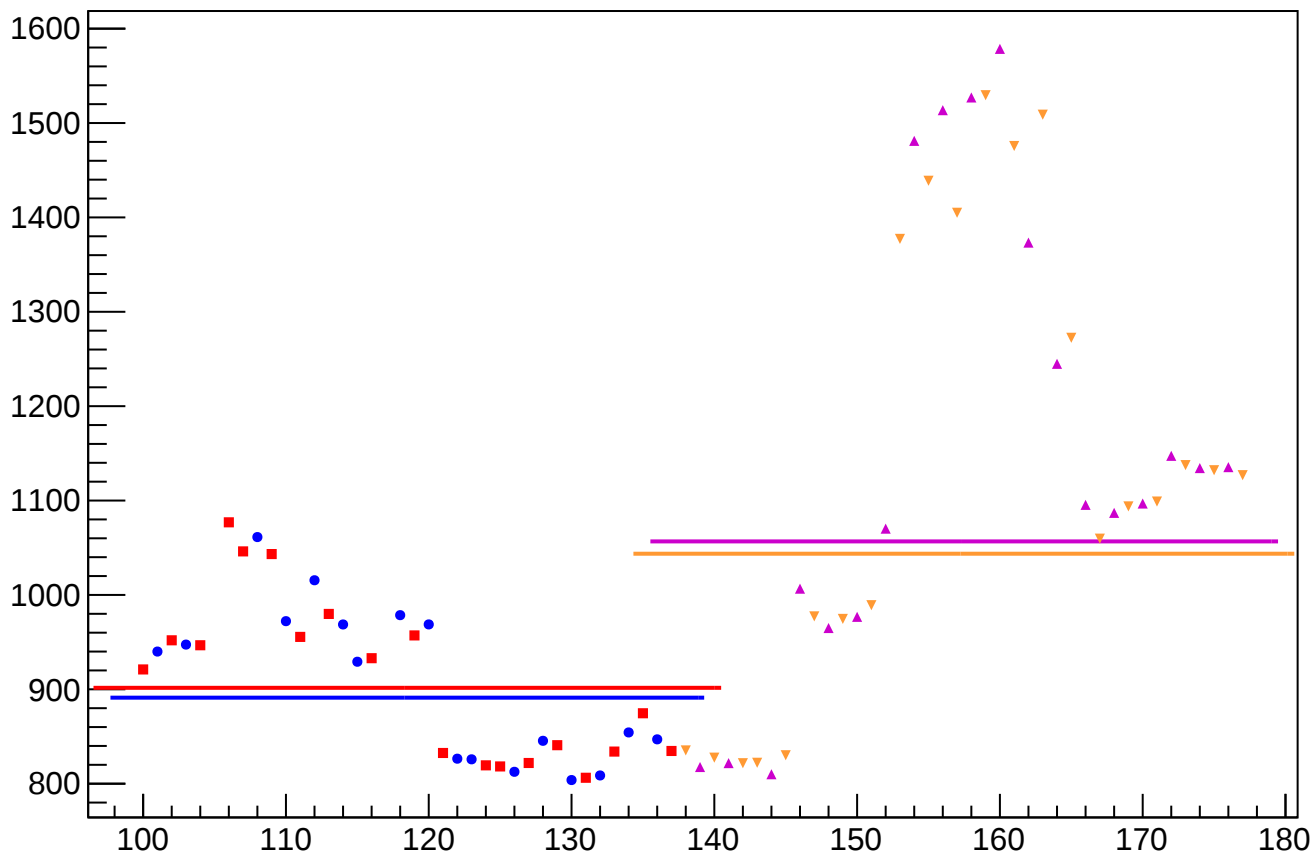
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.919 ± 0.219 $\chi^2/\text{NDF}: 2093.3/35$

Out: -0.031 ± 0.211 $\chi^2/\text{NDF}: 813.4/39$

All: 1.389 ± 0.152 $\chi^2/\text{NDF}: 3001.2/75$

diff_bpm2i01X_rms vs Slug, Sign Corrected



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

Left Out: 1043.668 ± 0.190 χ^2/NDF : 1304220.3/20

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

Left In: 1056.718 ± 0.200 χ^2/NDF : 1181400.0/18

Left: 1049.863 ± 0.138 χ^2/NDF : 2487856.4/39

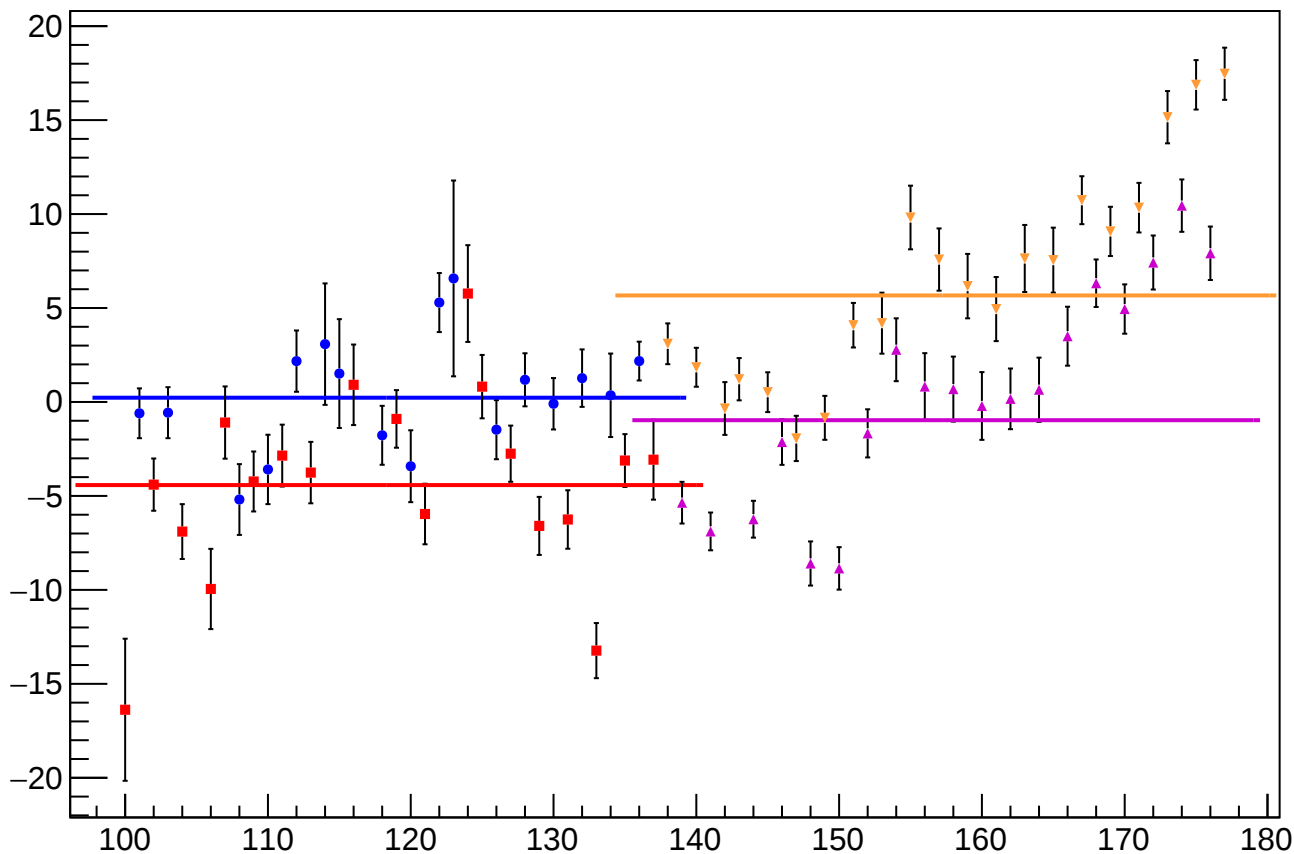
Right: 896.461 ± 0.171 χ^2/NDF : 217184.3/35

In: 990.046 ± 0.155 χ^2/NDF : 1559001.6/35

Out: 988.690 ± 0.149 χ^2/NDF : 1634865.6/39

All: 989.343 ± 0.107 χ^2/NDF : 3193907.1/75

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 χ^2/NDF : 38.5/16

Left Out: 5.669 ± 0.290 χ^2/NDF : 386.9/20

Right Out: -4.423 ± 0.387 χ^2/NDF : 103.3/18

Left In: -0.970 ± 0.304 χ^2/NDF : 381.8/18

Left: 2.514 ± 0.210 χ^2/NDF : 1018.2/39

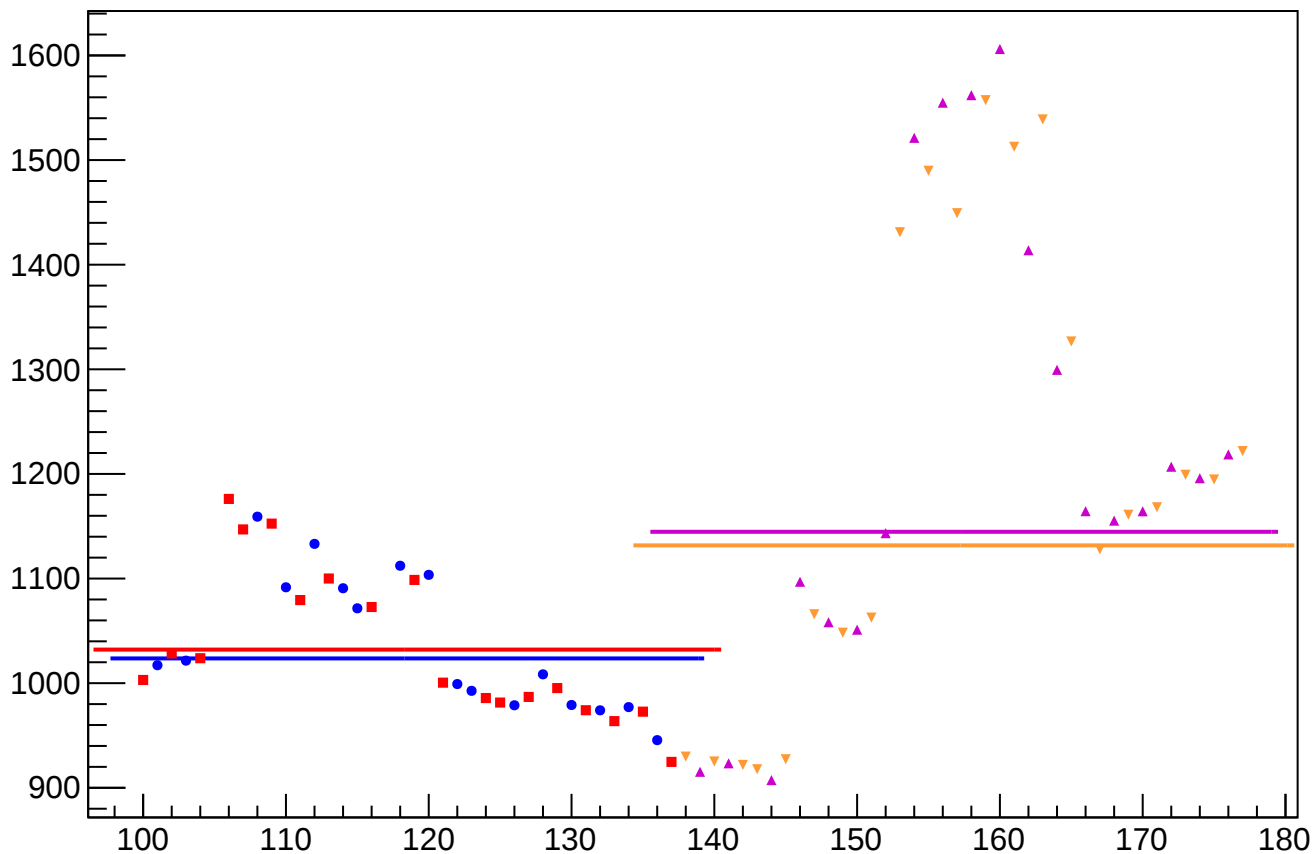
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -0.524 ± 0.241 χ^2/NDF : 426.1/35

Out: 2.041 ± 0.232 χ^2/NDF : 926.4/39

All: 0.808 ± 0.167 χ^2/NDF : 1411.2/75

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 $\pm$ 0.279 χ^2/NDF : 52373.8/16

Left Out: 1131.718 $\pm$ 0.205 χ^2/NDF : 966751.3/20

Right Out: 1032.107 $\pm$ 0.273 χ^2/NDF : 59391.6/18

Left In: 1144.692 $\pm$ 0.215 χ^2/NDF : 868049.1/18

Left: 1137.884 $\pm$ 0.148 χ^2/NDF : 1836706.3/39

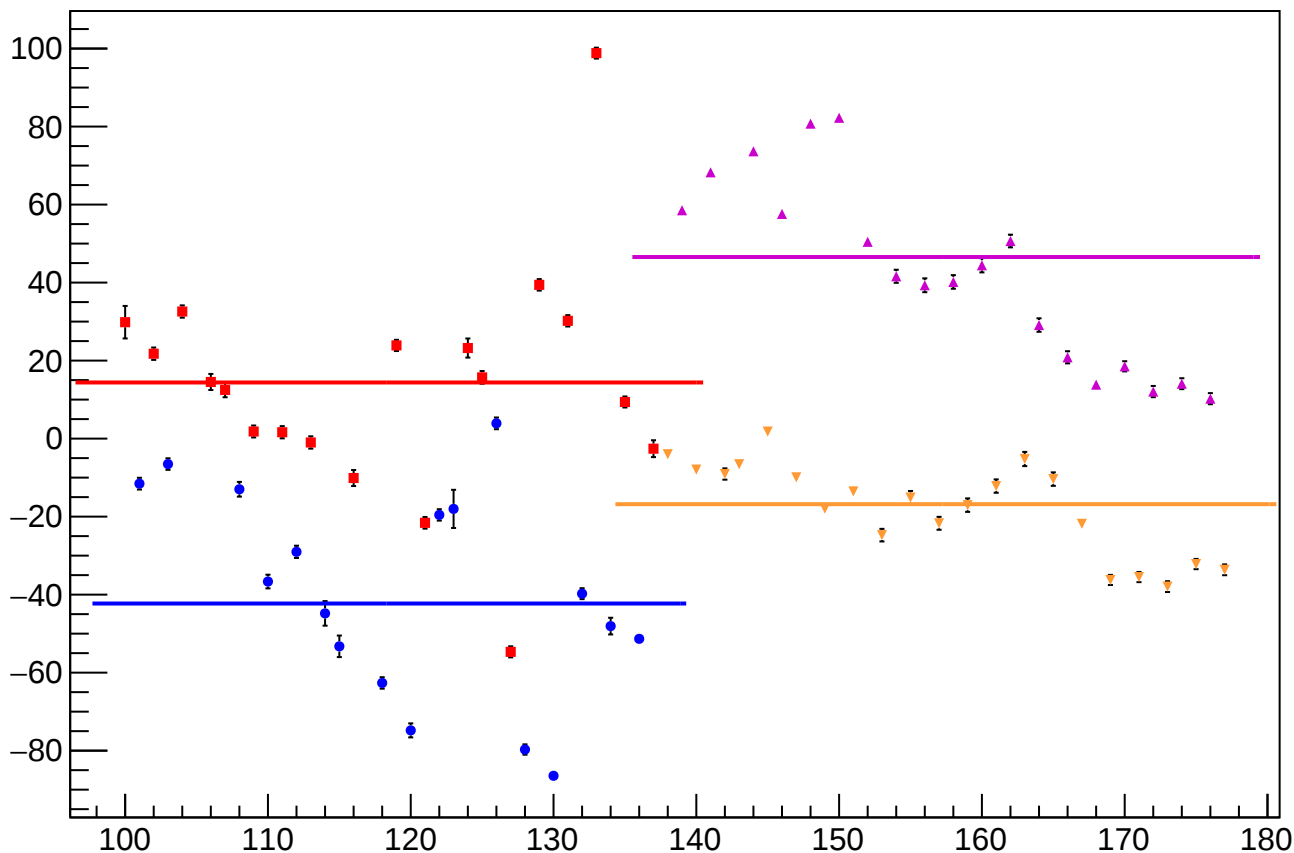
Right: 1027.970 $\pm$ 0.195 χ^2/NDF : 112233.0/35

In: 1099.582 $\pm$ 0.171 χ^2/NDF : 1038233.5/35

Out: 1095.902 $\pm$ 0.164 χ^2/NDF : 1111126.5/39

All: 1097.670 $\pm$ 0.118 χ^2/NDF : 2149602.1/75

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 ± 0.387 χ^2/NDF : 5126.8/16

Left Out: -16.810 ± 0.294 χ^2/NDF : 1694.2/20

Right Out: 14.393 ± 0.378 χ^2/NDF : 7669.8/18

Left In: 46.554 ± 0.310 χ^2/NDF : 6255.3/18

Left: 13.173 ± 0.213 χ^2/NDF : 29933.9/39

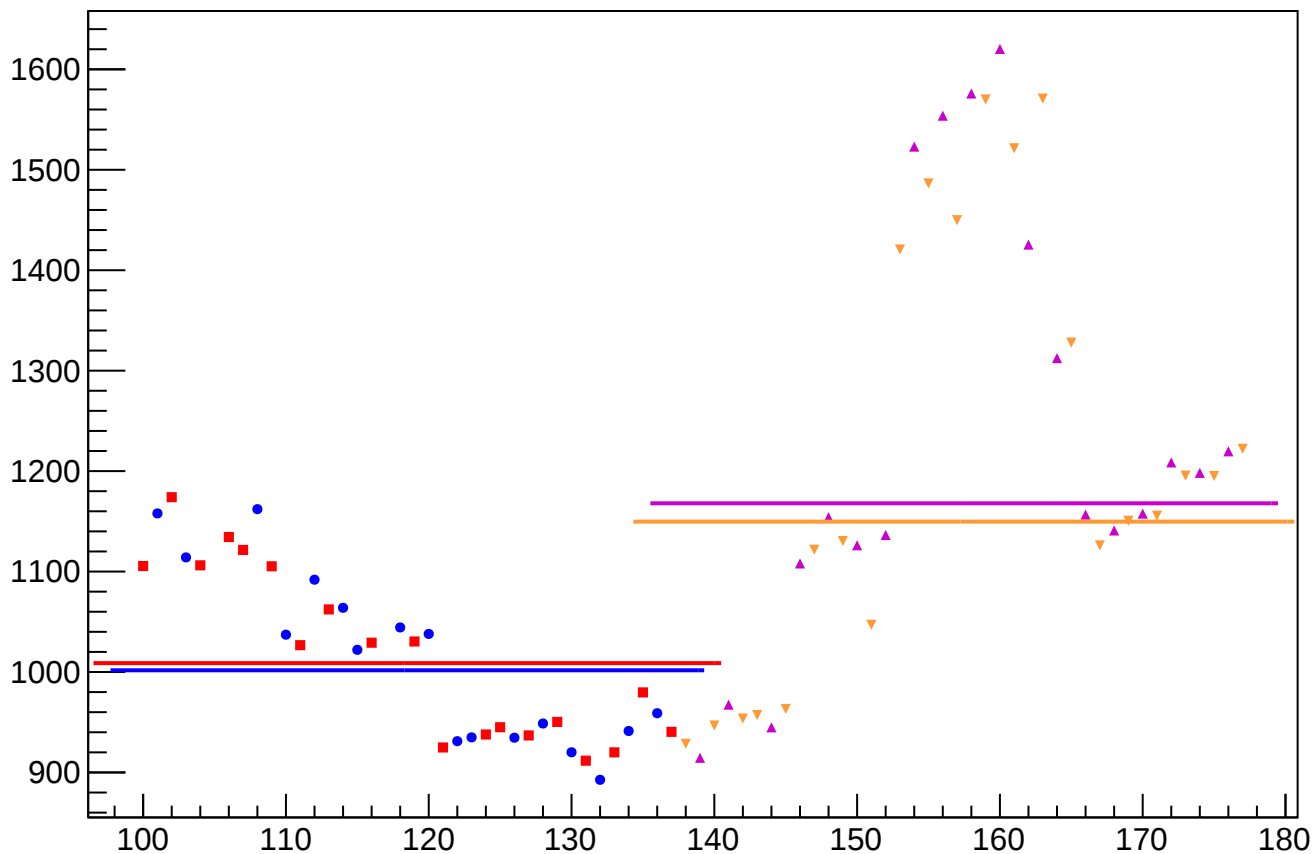
Right: -13.301 ± 0.271 χ^2/NDF : 23754.3/35

In: 11.822 ± 0.242 χ^2/NDF : 43450.2/35

Out: -5.068 ± 0.232 χ^2/NDF : 13603.6/39

All: 3.025 ± 0.168 χ^2/NDF : 59589.8/75

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1149.690 $\pm$ 0.208 χ^2 /NDF: 873192.4/20

Right Out: 1008.848 $\pm$ 0.268 χ^2 /NDF: 95349.9/18

Left In: 1167.941 $\pm$ 0.219 χ^2 /NDF: 768766.6/18

Left: 1158.326 $\pm$ 0.151 χ^2 /NDF: 1645606.7/39

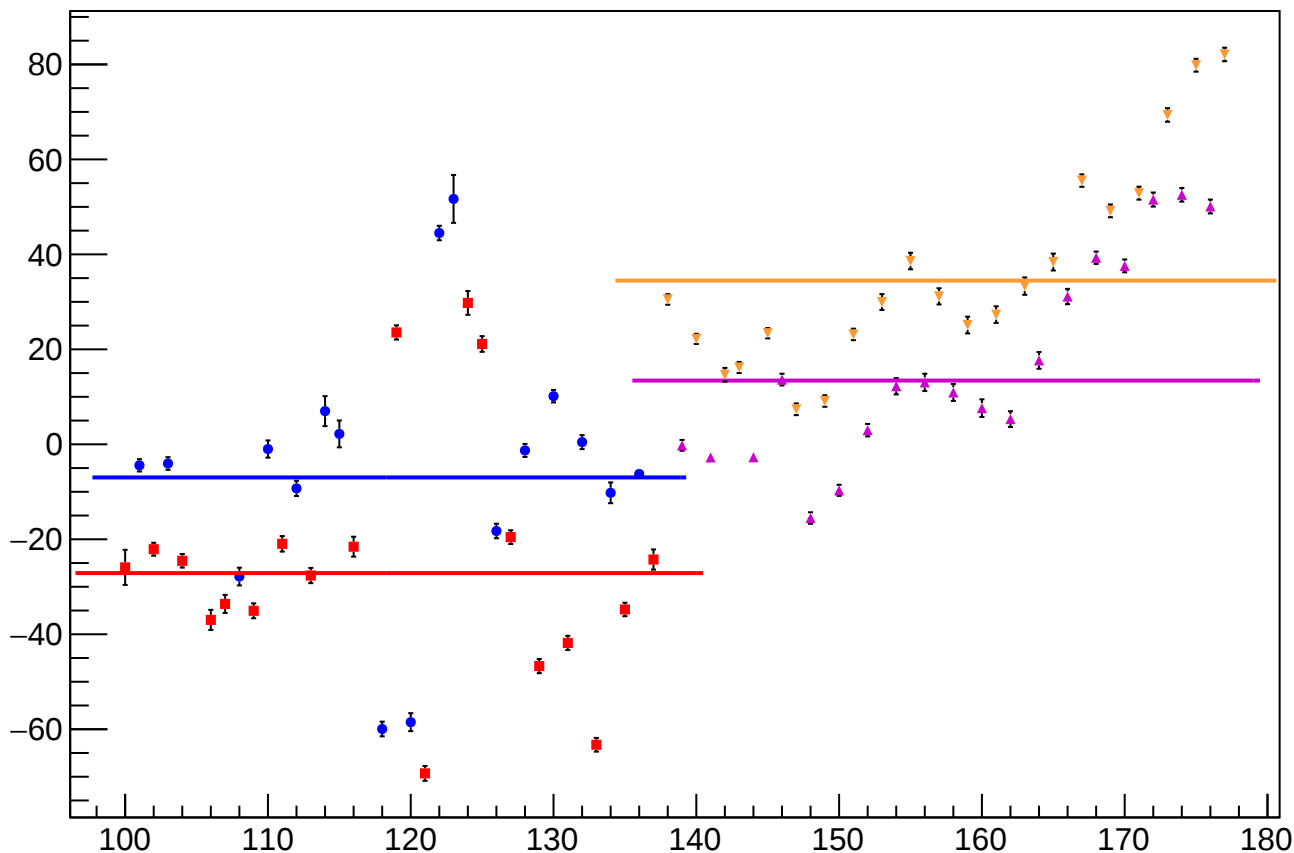
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1102.946 $\pm$ 0.171 χ^2 /NDF: 1088842.7/35

Out: 1096.691 $\pm$ 0.164 χ^2 /NDF: 1141295.4/39

All: 1099.688 $\pm$ 0.118 χ^2 /NDF: 2230833.7/75

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 34.481 ± 0.298 χ^2/NDF : 5126.2/20

Right Out: -27.116 ± 0.380 χ^2/NDF : 4283.5/18

Left In: 13.425 ± 0.314 χ^2/NDF : 4559.0/18

Left: 24.478 ± 0.216 χ^2/NDF : 12050.0/39

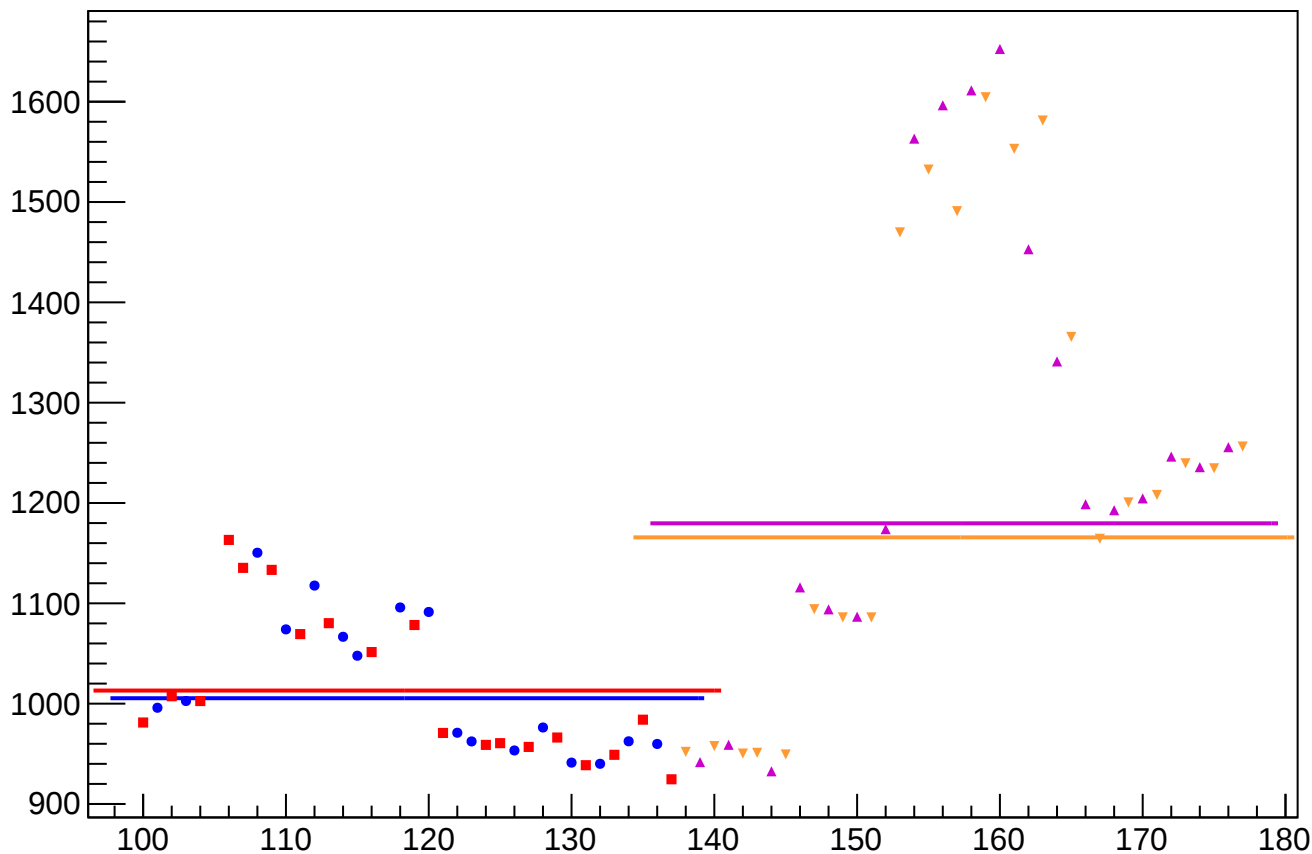
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: 5.360 ± 0.244 χ^2/NDF : 9867.7/35

Out: 10.952 ± 0.235 χ^2/NDF : 25682.9/39

All: 8.265 ± 0.169 χ^2/NDF : 35823.5/75

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2/NDF : 54586.0/16

Left Out: 1165.745 $\pm$ 0.211 χ^2/NDF : 964023.8/20

Right Out: 1013.064 $\pm$ 0.268 χ^2/NDF : 63265.7/18

Left In: 1179.742 $\pm$ 0.222 χ^2/NDF : 861012.7/18

Left: 1172.395 $\pm$ 0.153 χ^2/NDF : 1827126.5/39

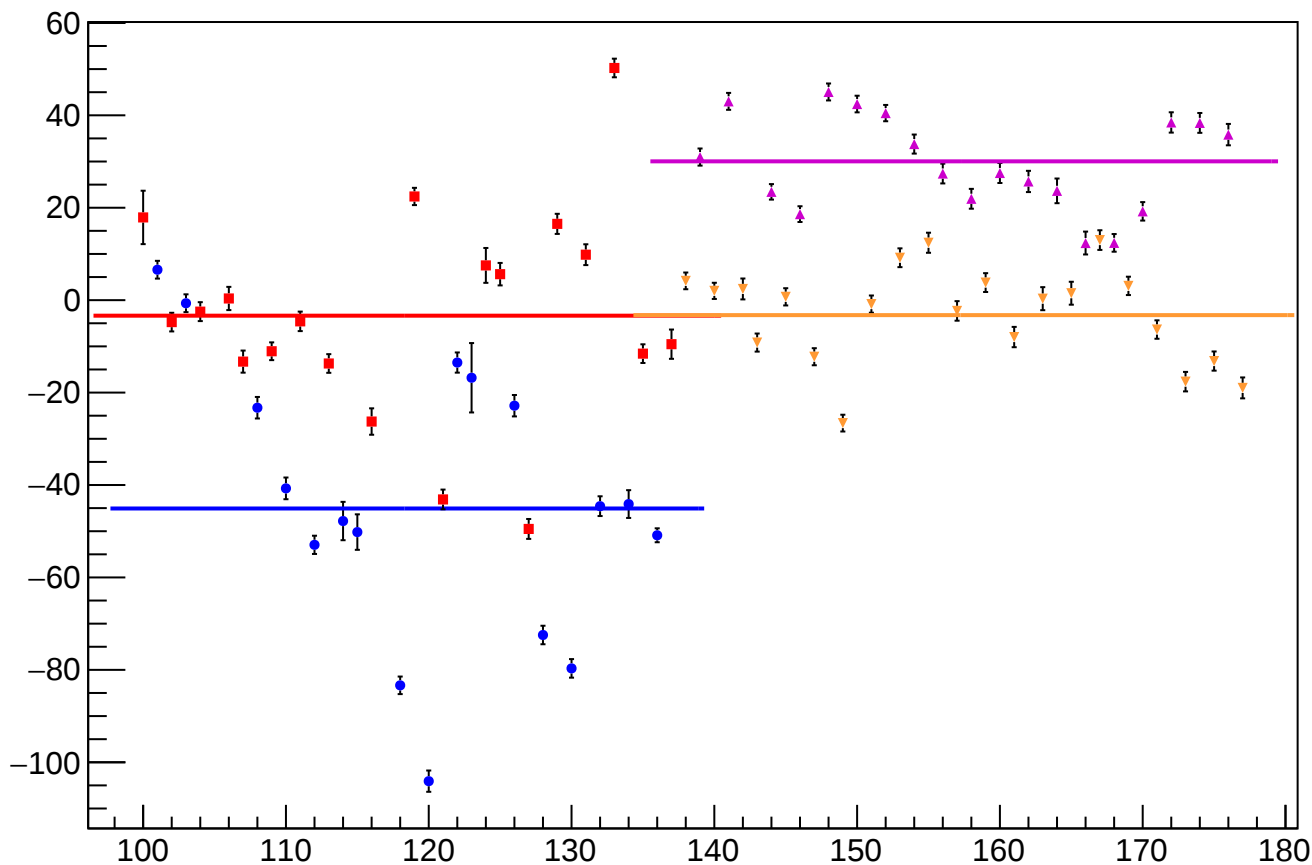
Right: 1009.320 $\pm$ 0.192 χ^2/NDF : 118249.5/35

In: 1110.820 $\pm$ 0.172 χ^2/NDF : 1159789.6/35

Out: 1107.423 $\pm$ 0.166 χ^2/NDF : 1227260.7/39

All: 1109.055 $\pm$ 0.120 χ^2/NDF : 2387251.8/75

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -3.239 ± 0.443 χ^2/NDF : 537.5/20

Right Out: -3.358 ± 0.522 χ^2/NDF : 2005.7/18

Left In: 30.038 ± 0.460 χ^2/NDF : 491.3/18

Left: 12.787 ± 0.319 χ^2/NDF : 3743.1/39

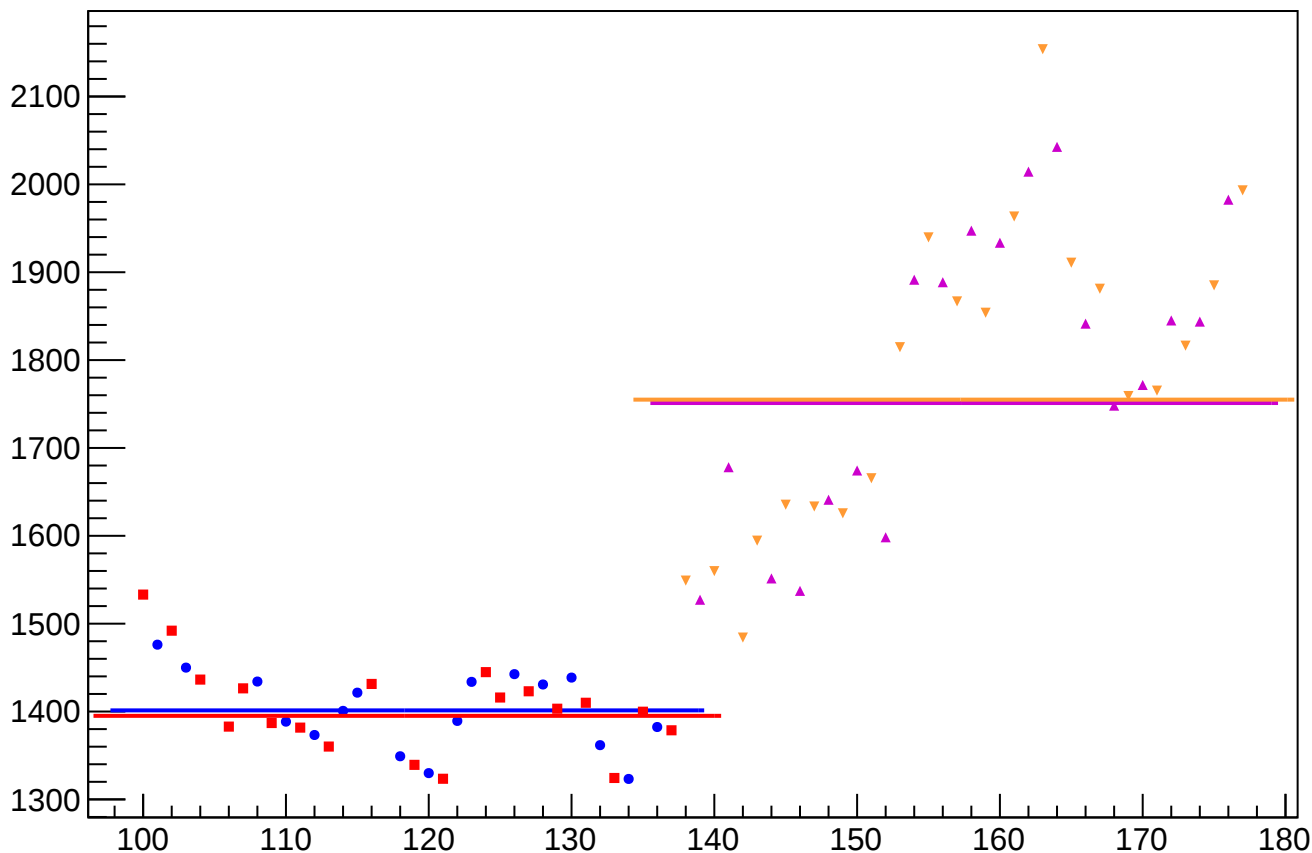
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -1.561 ± 0.350 χ^2/NDF : 14953.2/35

Out: -3.288 ± 0.338 χ^2/NDF : 2543.2/39

All: -2.455 ± 0.243 χ^2/NDF : 17509.1/75

diff_bpm0i02X_rms vs Slug, Sign Corrected



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

Left Out: 1754.991 $\pm$ 0.313 χ^2/NDF : 267077.2/20

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

Left In: 1751.139 $\pm$ 0.325 χ^2/NDF : 246912.4/18

Left: 1753.136 $\pm$ 0.226 χ^2/NDF : 514062.4/39

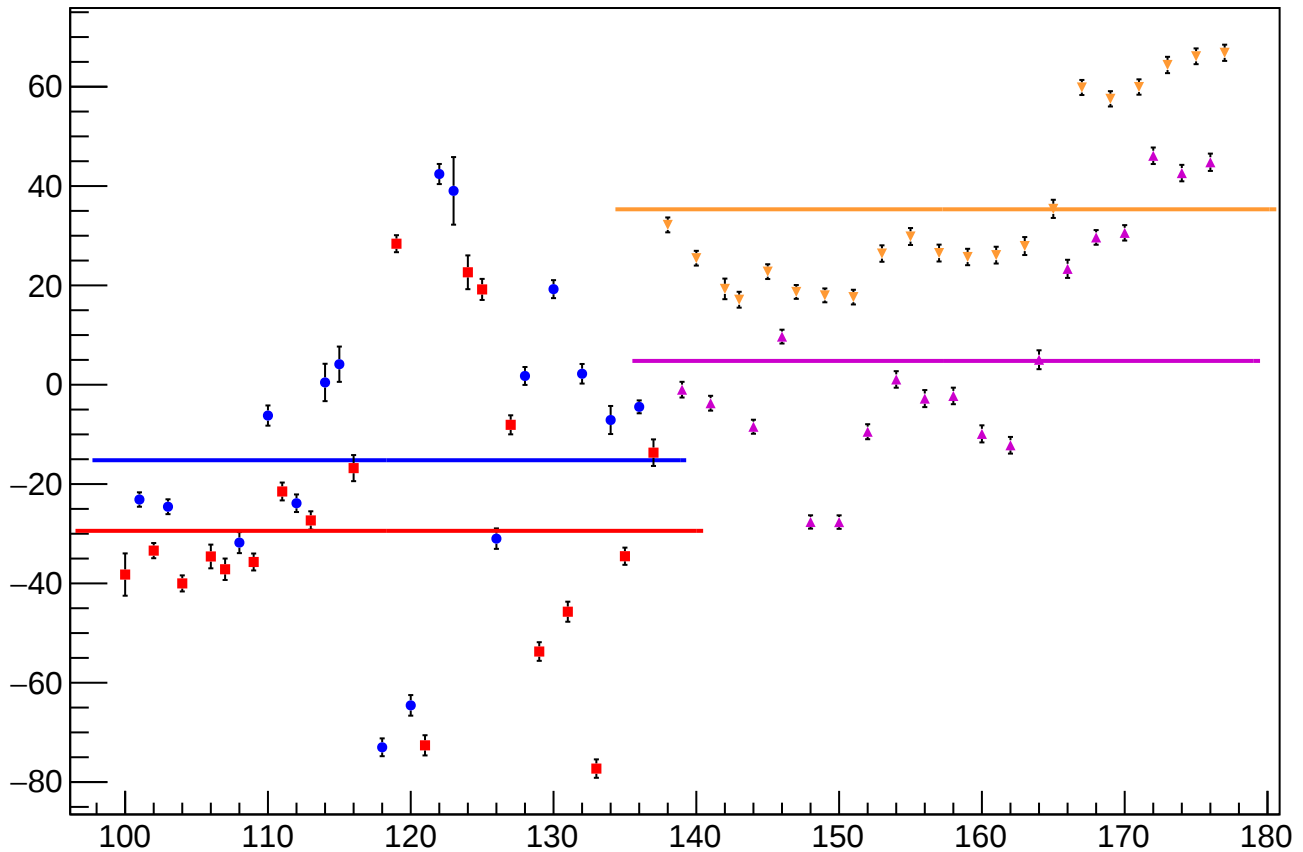
Right: 1398.102 $\pm$ 0.265 χ^2/NDF : 28508.5/35

In: 1603.983 $\pm$ 0.248 χ^2/NDF : 746614.9/35

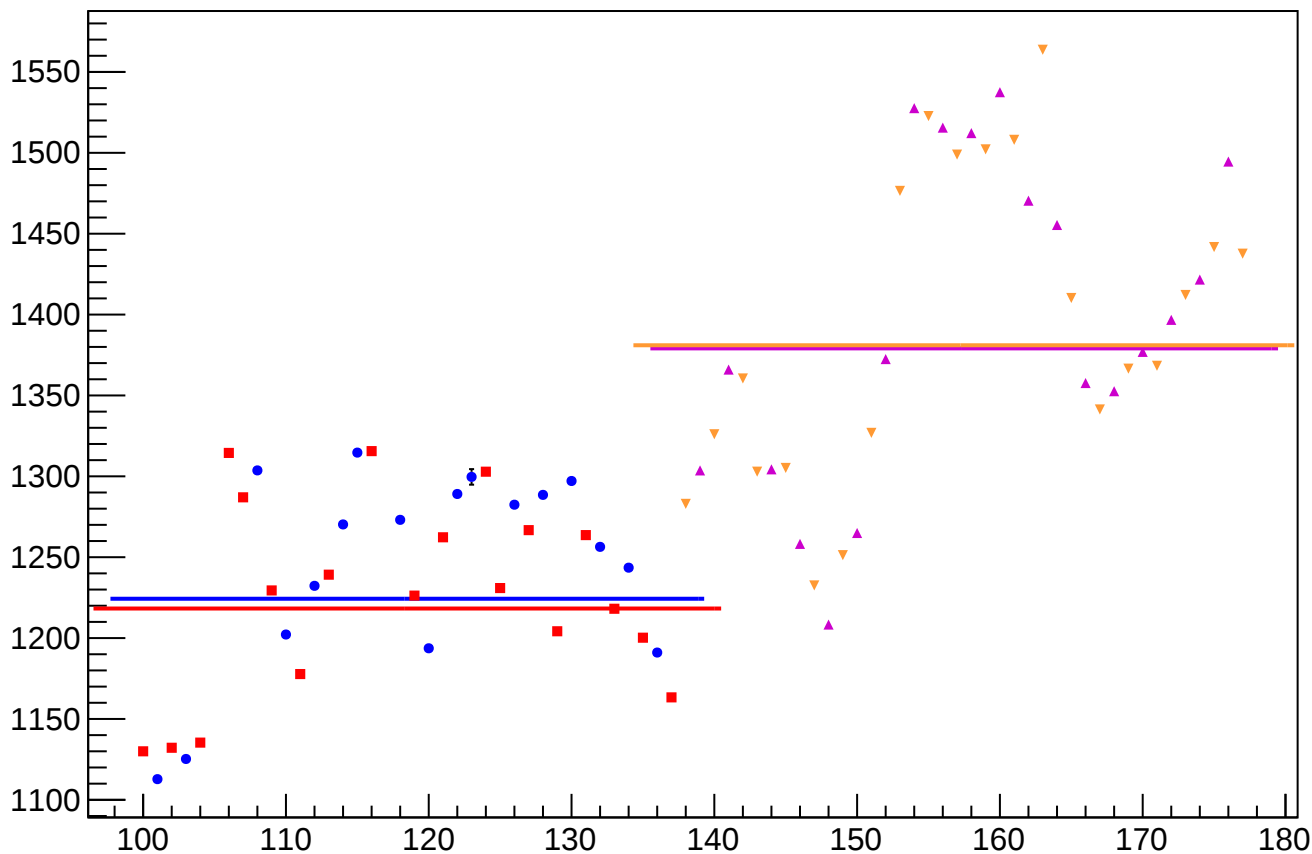
Out: 1604.151 $\pm$ 0.239 χ^2/NDF : 835190.8/39

All: 1604.070 $\pm$ 0.172 χ^2/NDF : 1581806.0/75

diff_bpm0i02Y_mean vs Slug, Sign Corrected



diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1381.029+/-0.246 χ^2/NDF :144937.7/20

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1379.094+/-0.256 χ^2/NDF :150604.3/18

Left: 1380.098+/-0.177 χ^2/NDF : 295571.7/39

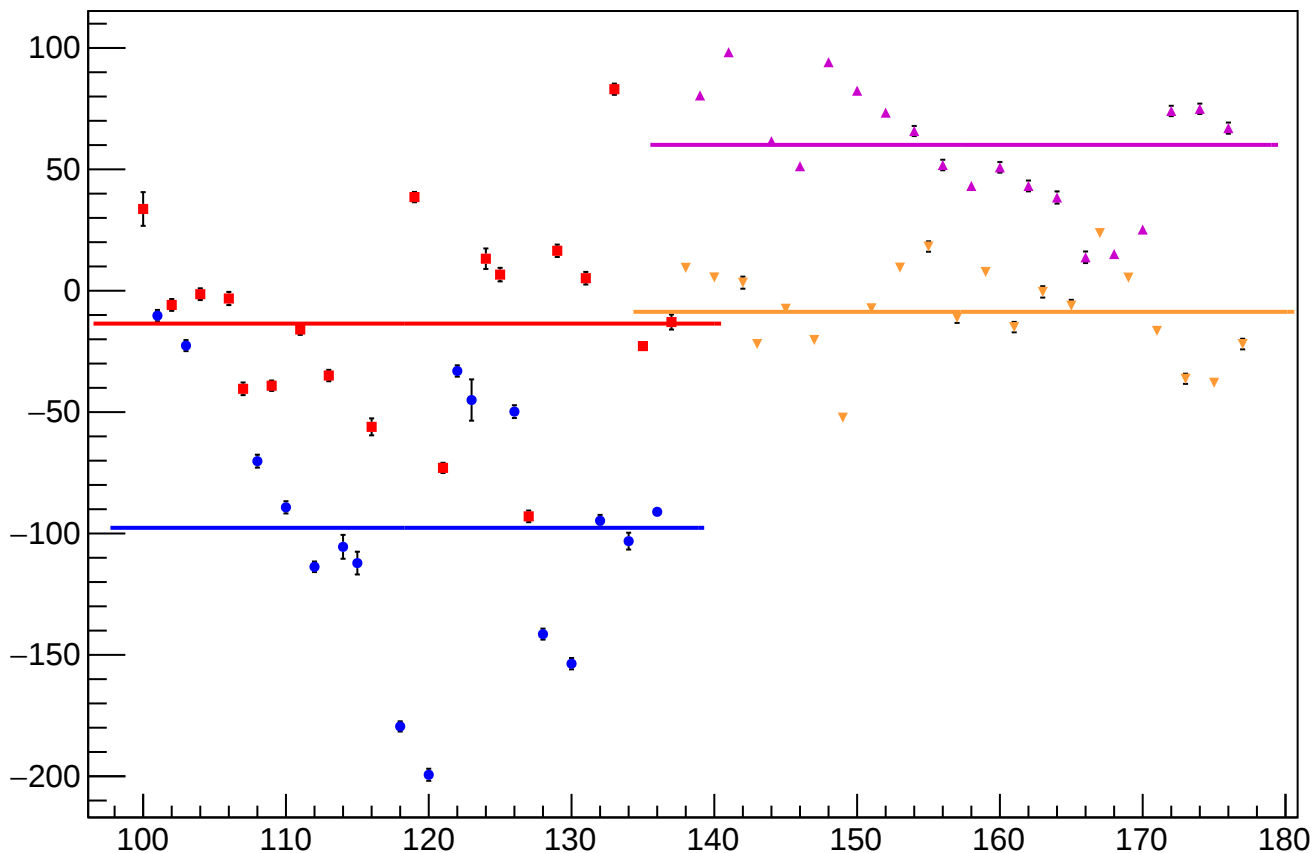
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1321.921+/-0.203 χ^2/NDF :324928.7/35

Out: 1321.128+/-0.196 χ^2/NDF :333382.6/39

All: 1321.510+/-0.141 χ^2/NDF : 658319.3/75

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -8.684 ± 0.440 χ^2/NDF : 1911.8/20

Right Out: -13.538 ± 0.579 χ^2/NDF : 5128.2/18

Left In: 60.084 ± 0.459 χ^2/NDF : 2737.5/18

Left: 24.267 ± 0.318 χ^2/NDF : 16356.6/39

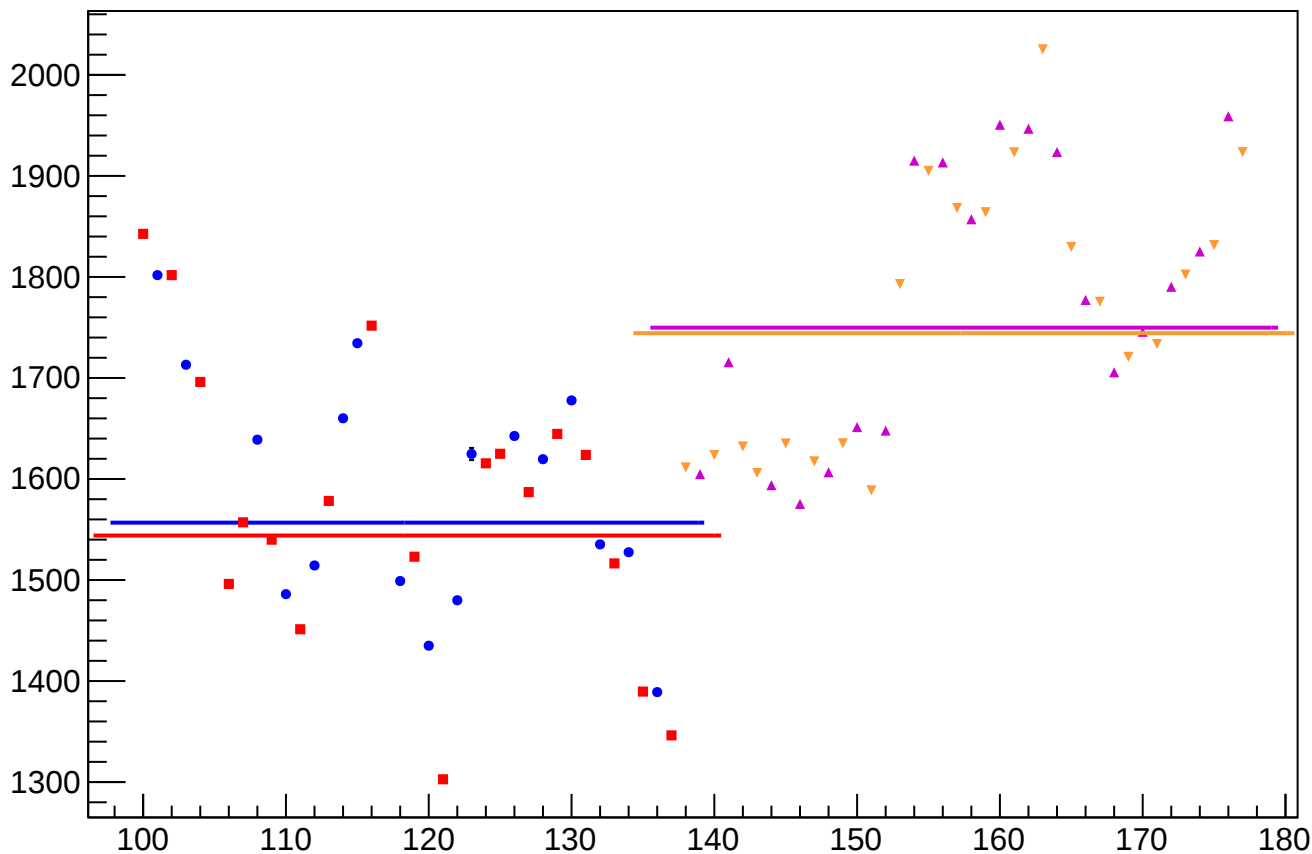
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: 2.062 ± 0.365 χ^2/NDF : 54176.8/35

Out: -10.459 ± 0.350 χ^2/NDF : 7084.5/39

All: -4.449 ± 0.253 χ^2/NDF : 61874.3/75

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2/NDF : 81549.2/16

Left Out: 1744.361 $\pm$ 0.311 χ^2/NDF :162507.5/20

Right Out: 1544.034 $\pm$ 0.410 χ^2/NDF : 100501.7/18

Left In: 1749.809 $\pm$ 0.324 χ^2/NDF :166433.9/18

Left: 1746.972 $\pm$ 0.225 χ^2/NDF : 329088.4/39

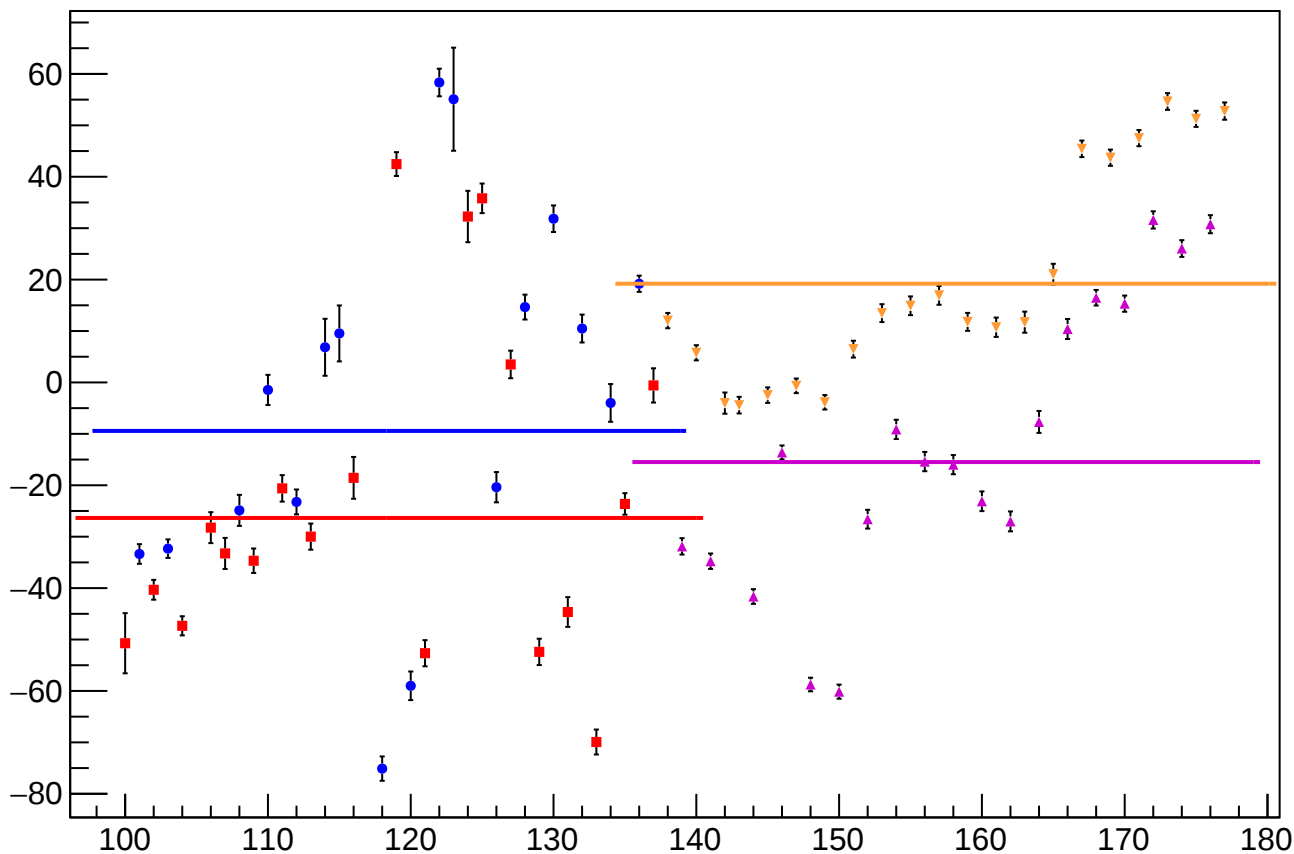
Right: 1550.179 $\pm$ 0.295 χ^2/NDF : 182518.3/35

In: 1678.815 $\pm$ 0.258 χ^2/NDF :378244.5/35

Out: 1671.095 $\pm$ 0.248 χ^2/NDF :414667.6/39

All: 1674.801 $\pm$ 0.179 χ^2/NDF : 793378.1/75

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 χ^2/NDF : 2924.1/16

Left Out: 19.204 ± 0.360 χ^2/NDF : 3377.2/20

Right Out: -26.354 ± 0.603 χ^2/NDF : 2472.1/18

Left In: -15.486 ± 0.377 χ^2/NDF : 5992.0/18

Left: 2.636 ± 0.260 χ^2/NDF : 13800.5/39

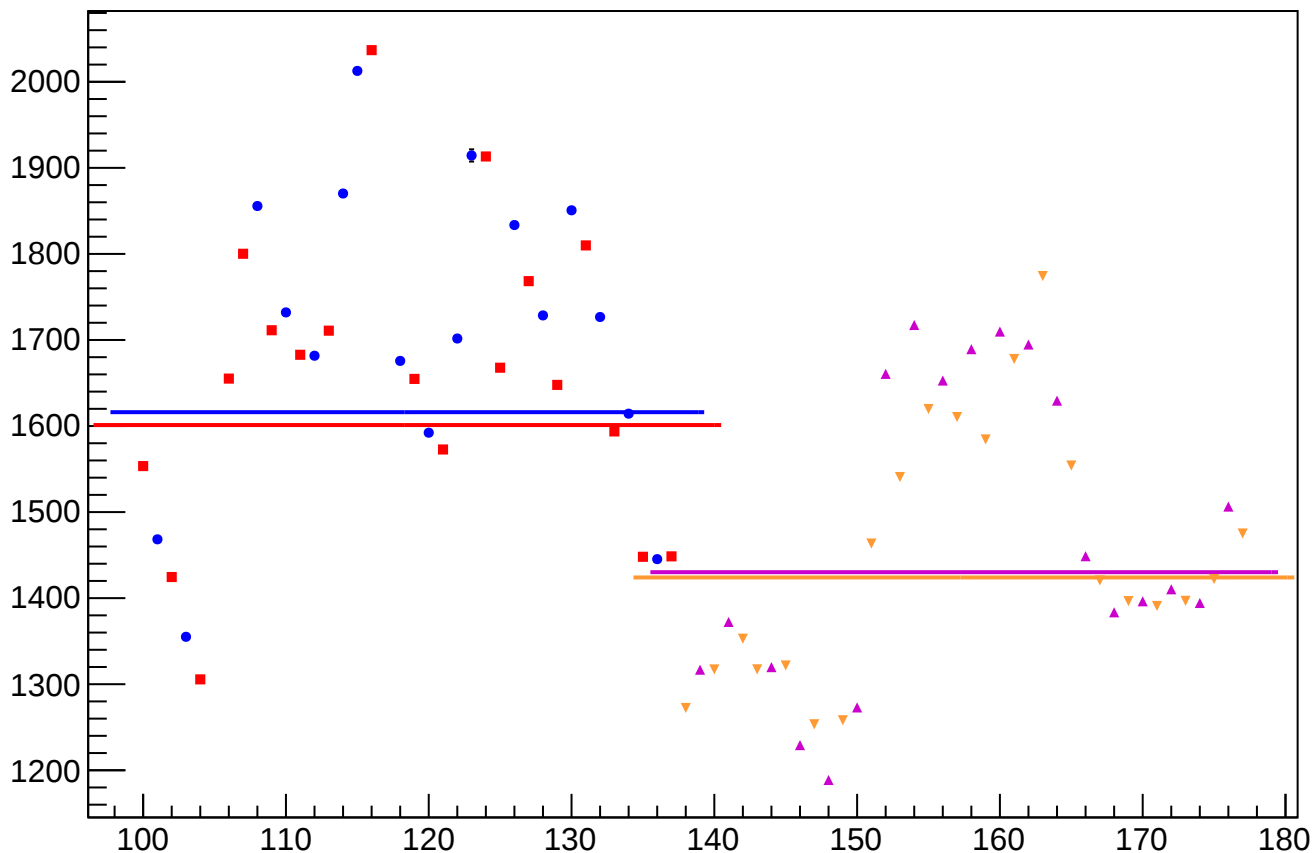
Right: -18.216 ± 0.434 χ^2/NDF : 5775.3/35

In: -13.877 ± 0.323 χ^2/NDF : 8984.9/35

Out: 7.220 ± 0.309 χ^2/NDF : 10058.8/39

All: -2.874 ± 0.223 χ^2/NDF : 21271.6/75

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094+/-0.443 χ^2/NDF : 149596.3/16

Left Out: 1424.026+/-0.255 χ^2/NDF : 286535.7/20

Right Out: 1601.134+/-0.426 χ^2/NDF : 153651.5/18

Left In: 1430.163+/-0.266 χ^2/NDF : 412913.0/18

Left: 1426.957+/-0.184 χ^2/NDF : 699726.1/39

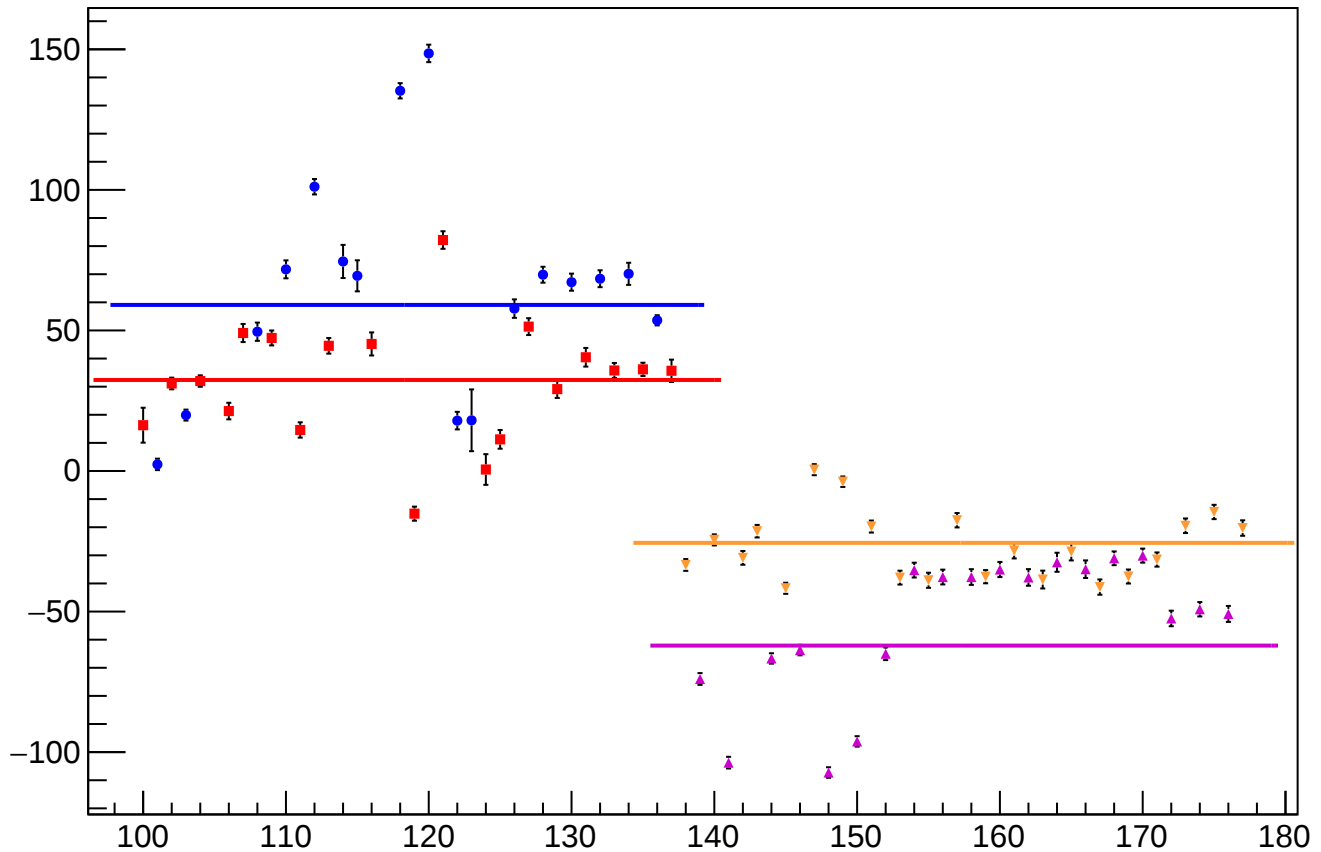
Right: 1608.326+/-0.307 χ^2/NDF : 303840.0/35

In: 1479.531+/-0.228 χ^2/NDF : 691909.0/35

Out: 1470.614+/-0.219 χ^2/NDF : 567423.6/39

All: 1474.880+/-0.158 χ^2/NDF : 1260128.6/75

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -25.556 ± 0.518 χ^2/NDF : 601.3/20

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -62.107 ± 0.542 χ^2/NDF : 2322.8/18

Left: -43.009 ± 0.375 χ^2/NDF : 5300.3/39

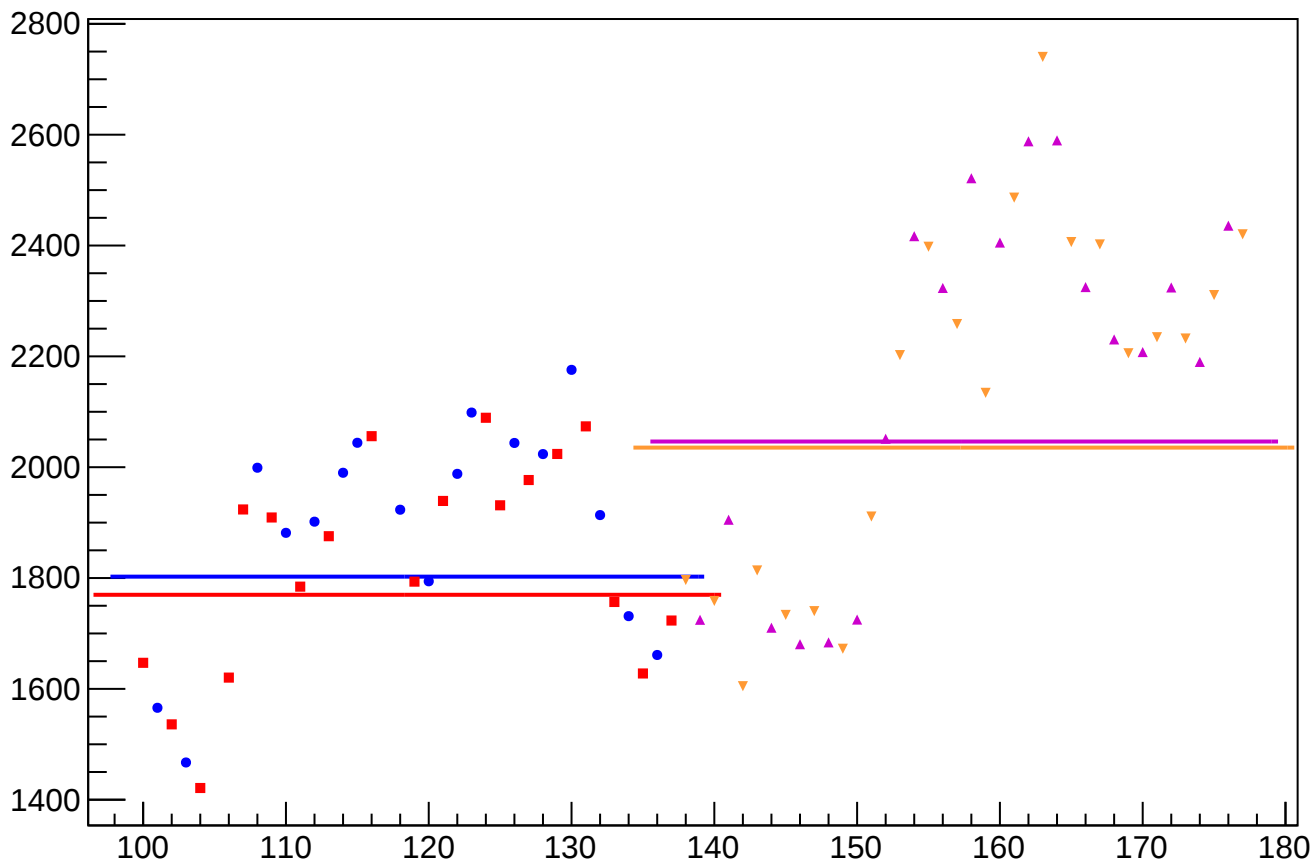
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -16.639 ± 0.428 χ^2/NDF : 24372.7/35

Out: -3.729 ± 0.409 χ^2/NDF : 6202.9/39

All: -9.886 ± 0.296 χ^2/NDF : 31050.5/75

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524 ± 0.495 $\chi^2/\text{NDF}: 184069.0/16$

Left Out: 2035.369 ± 0.366 $\chi^2/\text{NDF}: 696268.9/20$

Right Out: 1769.772 ± 0.471 $\chi^2/\text{NDF}: 177893.4/18$

Left In: 2046.353 ± 0.383 $\chi^2/\text{NDF}: 707567.7/18$

Left: 2040.614 ± 0.265 $\chi^2/\text{NDF}: 1404265.7/39$

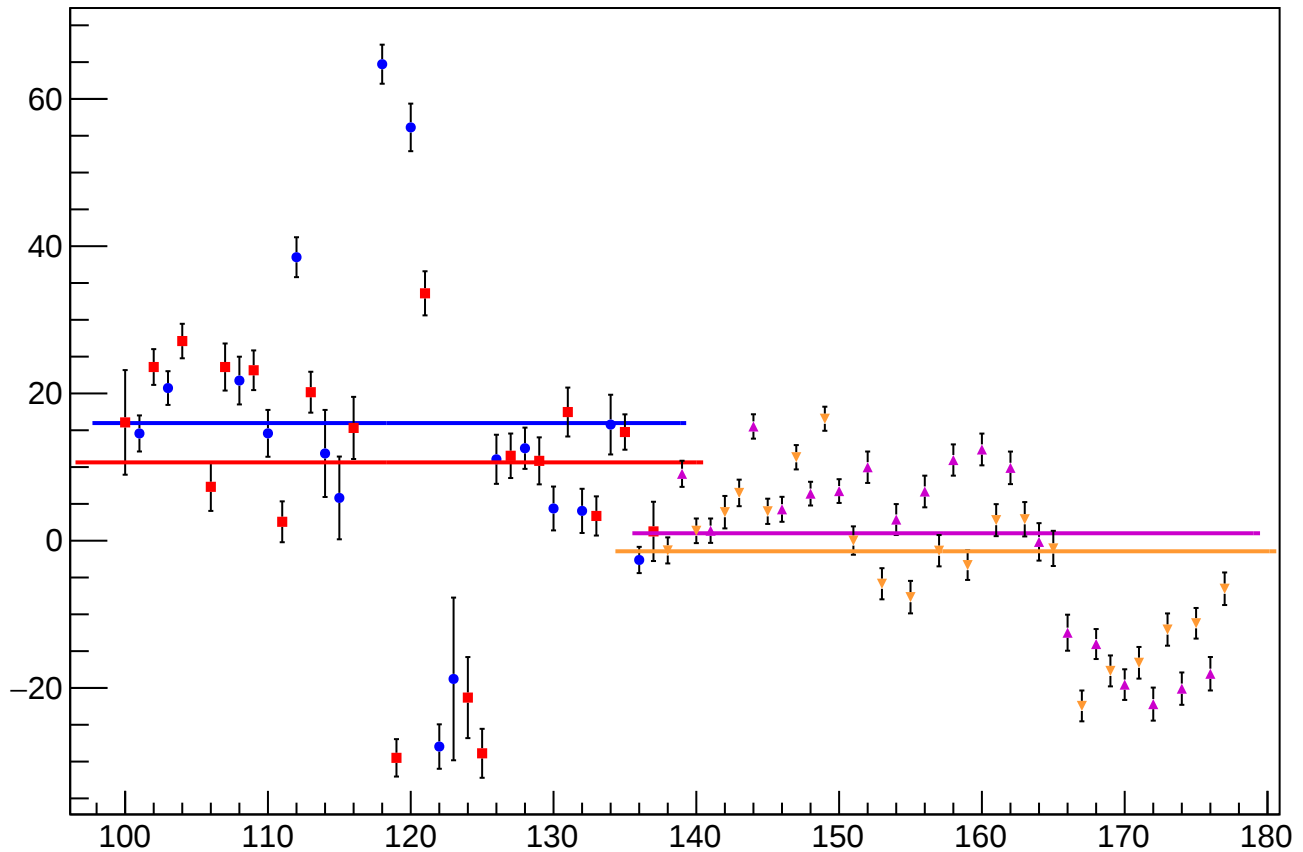
Right: 1785.358 ± 0.341 $\chi^2/\text{NDF}: 364260.7/35$

In: 1954.872 ± 0.303 $\chi^2/\text{NDF}: 1043490.5/35$

Out: 1935.314 ± 0.289 $\chi^2/\text{NDF}: 1072124.0/39$

All: 1944.641 ± 0.209 $\chi^2/\text{NDF}: 2117794.7/75$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 $\chi^2/\text{NDF}: 938.4/16$

Left Out: -1.438 ± 0.433 $\chi^2/\text{NDF}: 500.9/20$

Right Out: 10.638 ± 0.693 $\chi^2/\text{NDF}: 642.1/18$

Left In: 1.010 ± 0.454 $\chi^2/\text{NDF}: 668.7/18$

Left: -0.270 ± 0.313 $\chi^2/\text{NDF}: 1184.8/39$

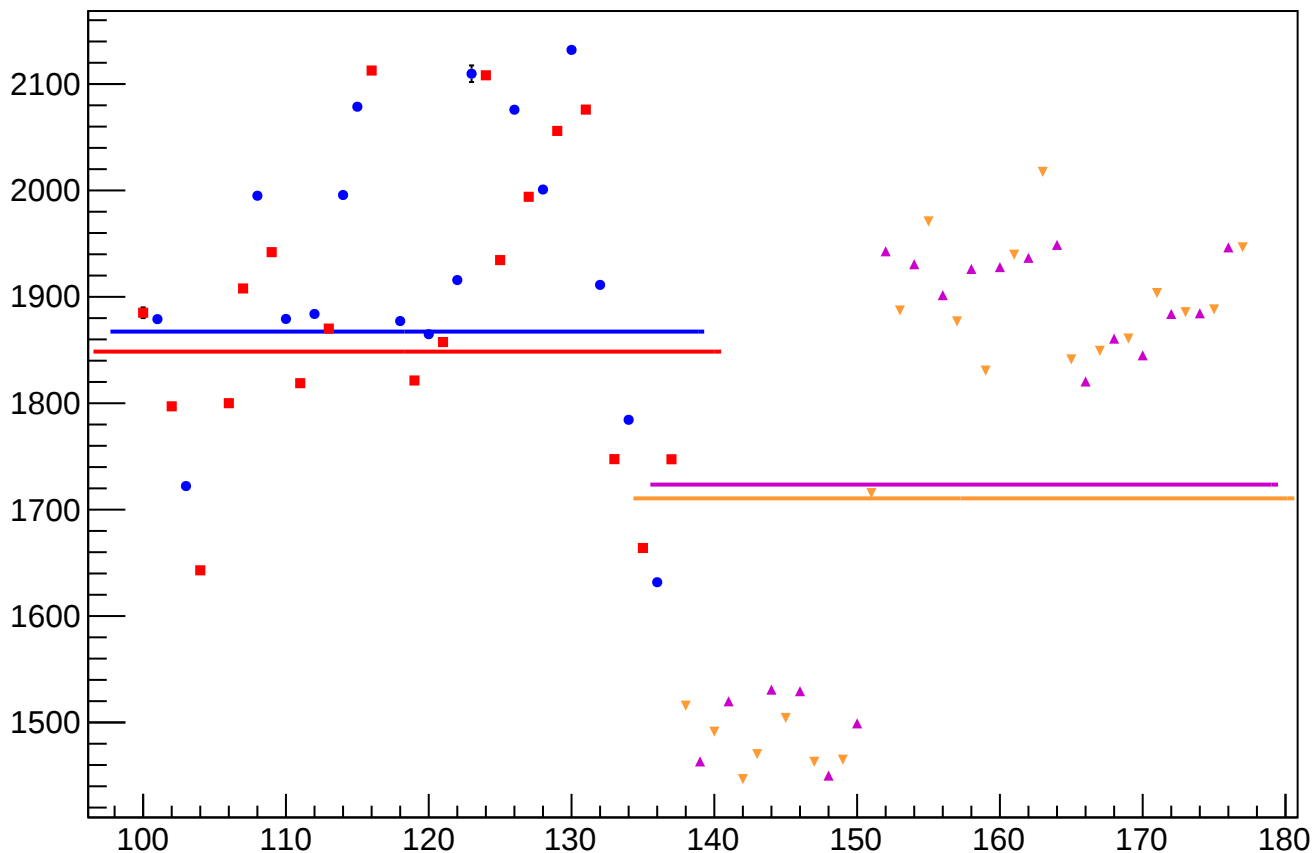
Right: 13.200 ± 0.500 $\chi^2/\text{NDF}: 1608.9/35$

In: 5.248 ± 0.384 $\chi^2/\text{NDF}: 1915.4/35$

Out: 1.955 ± 0.368 $\chi^2/\text{NDF}: 1361.1/39$

All: 3.530 ± 0.266 $\chi^2/\text{NDF}: 3314.9/75$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2 /NDF: 80926.4/16

Left Out: 1710.589 $\pm$ 0.306 χ^2 /NDF:450930.9/20

Right Out: 1848.532 $\pm$ 0.490 χ^2 /NDF: 72527.3/18

Left In: 1723.559 $\pm$ 0.321 χ^2 /NDF:406843.5/18

Left: 1716.780 $\pm$ 0.222 χ^2 /NDF: 858629.1/39

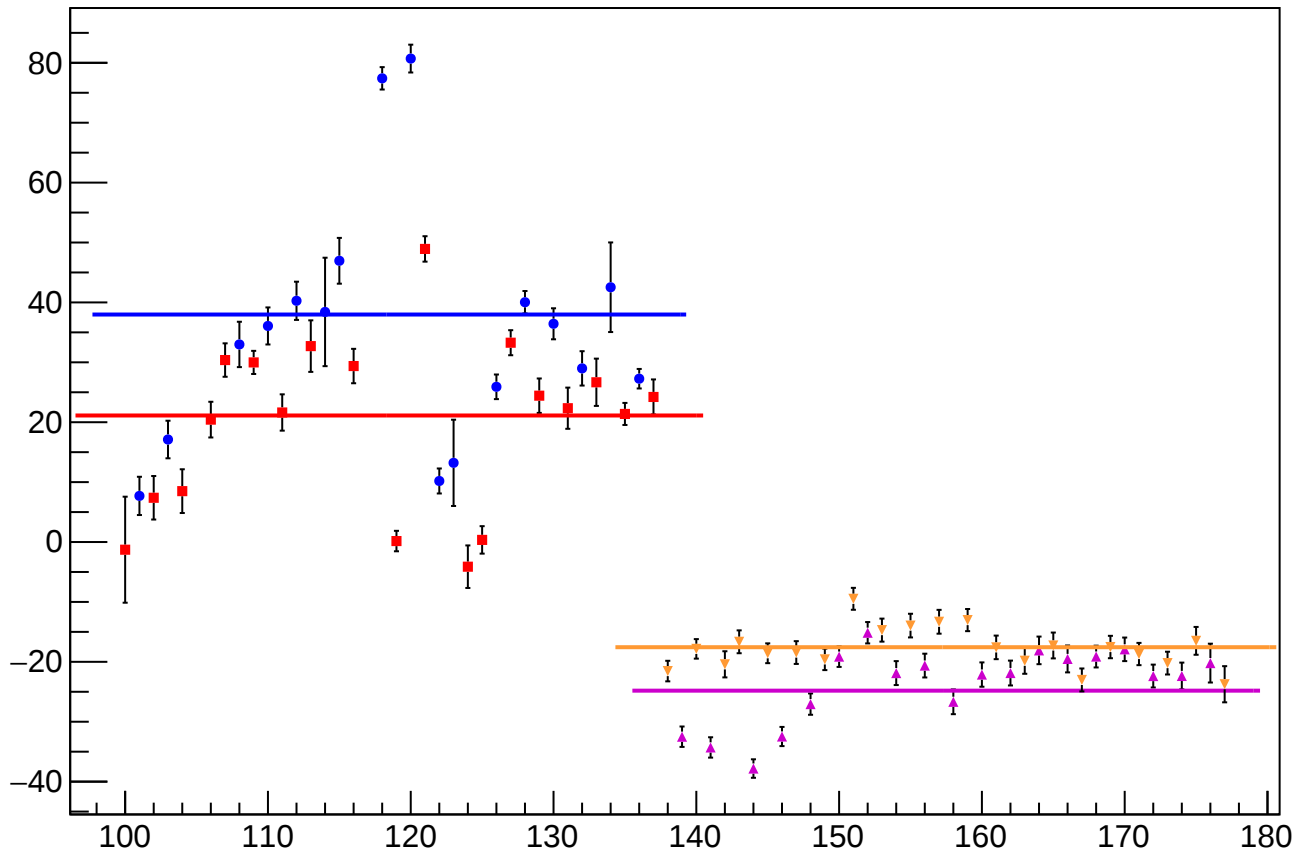
Right: 1857.561 $\pm$ 0.354 χ^2 /NDF: 154160.4/35

In: 1764.278 $\pm$ 0.272 χ^2 /NDF:544685.2/35

Out: 1749.351 $\pm$ 0.260 χ^2 /NDF:580377.1/39

All: 1756.487 $\pm$ 0.188 χ^2 /NDF: 1126639.4/75

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.560 ± 0.421 $\chi^2/\text{NDF}: 60.8/20$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -24.814 ± 0.438 $\chi^2/\text{NDF}: 239.5/18$

Left: -21.043 ± 0.304 $\chi^2/\text{NDF}: 442.6/39$

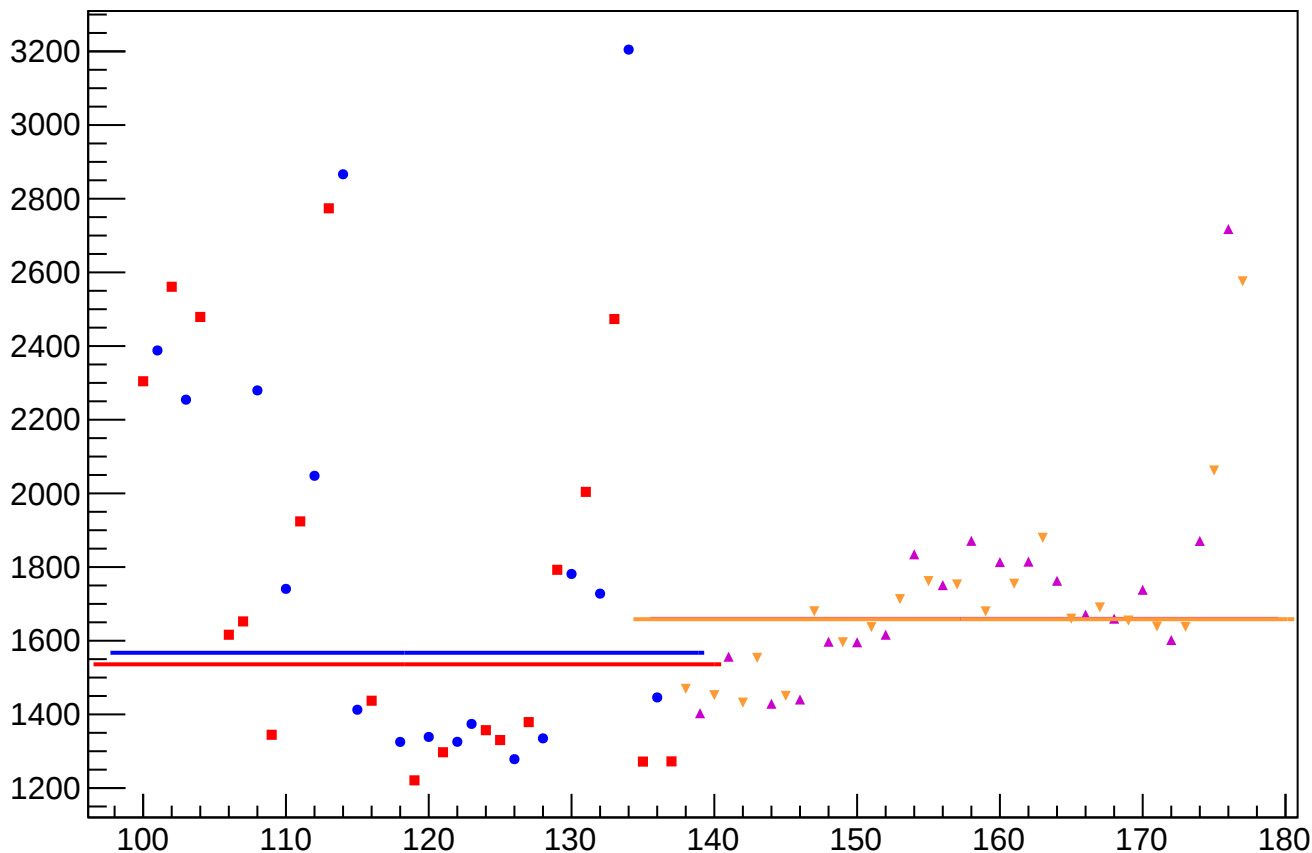
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -4.643 ± 0.361 $\chi^2/\text{NDF}: 8031.9/35$

Out: -5.017 ± 0.346 $\chi^2/\text{NDF}: 3367.0/39$

All: -4.838 ± 0.250 $\chi^2/\text{NDF}: 11399.4/75$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2/NDF : 673450.6/16

Left Out: 1658.498 $\pm$ 0.298 χ^2/NDF : 402035.4/20

Right Out: 1535.967 $\pm$ 0.430 χ^2/NDF : 882098.2/18

Left In: 1659.275 $\pm$ 0.310 χ^2/NDF : 444656.7/18

Left: 1658.871 $\pm$ 0.215 χ^2/NDF : 846695.4/39

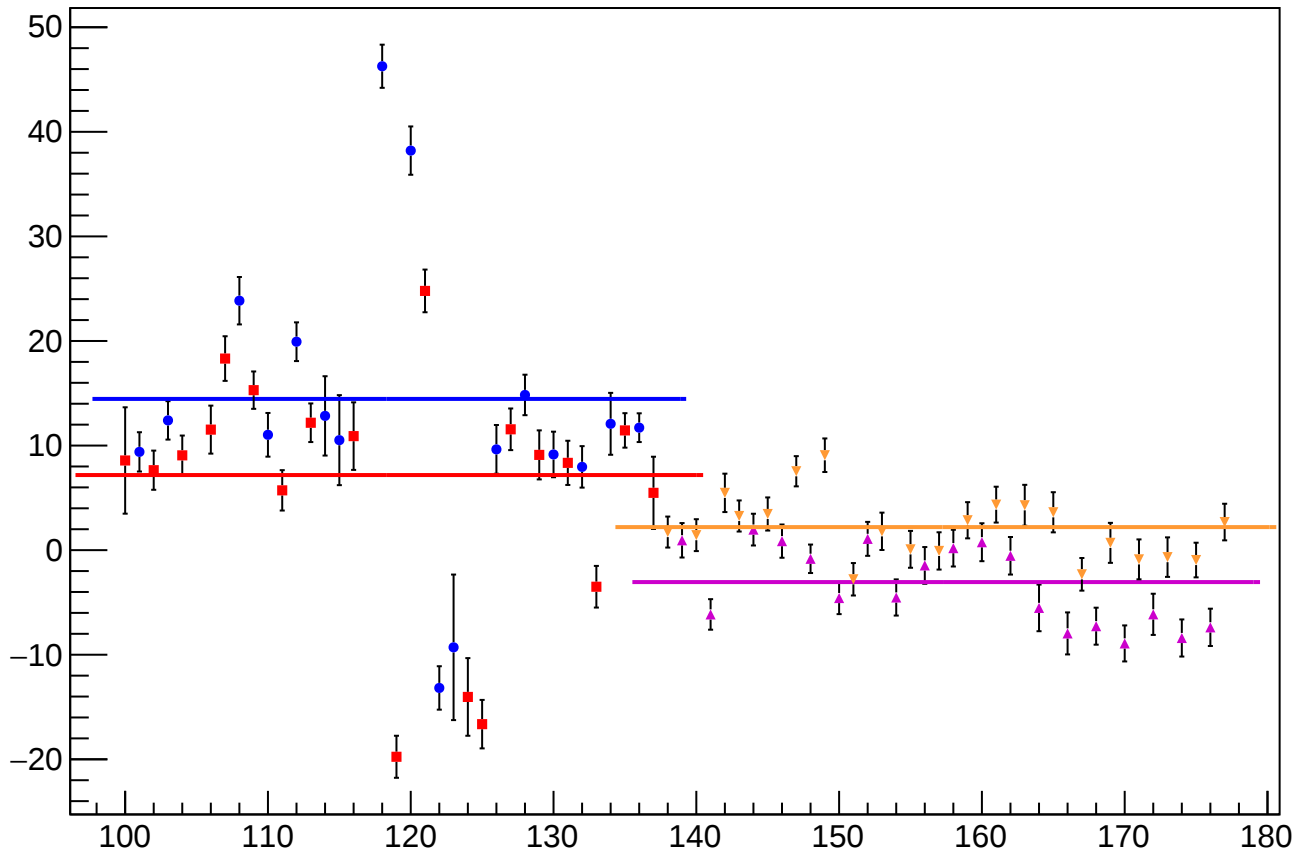
Right: 1550.918 $\pm$ 0.311 χ^2/NDF : 1558082.7/35

In: 1629.738 $\pm$ 0.255 χ^2/NDF : 1146359.3/35

Out: 1618.769 $\pm$ 0.245 χ^2/NDF : 1338963.4/39

All: 1624.024 $\pm$ 0.177 χ^2/NDF : 2486283.5/75

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 ± 0.523 $\chi^2/\text{NDF}: 595.9/16$

Left Out: 2.204 ± 0.368 $\chi^2/\text{NDF}: 71.1/20$

Right Out: 7.181 ± 0.494 $\chi^2/\text{NDF}: 495.7/18$

Left In: -3.054 ± 0.389 $\chi^2/\text{NDF}: 90.7/18$

Left: -0.274 ± 0.267 $\chi^2/\text{NDF}: 258.3/39$

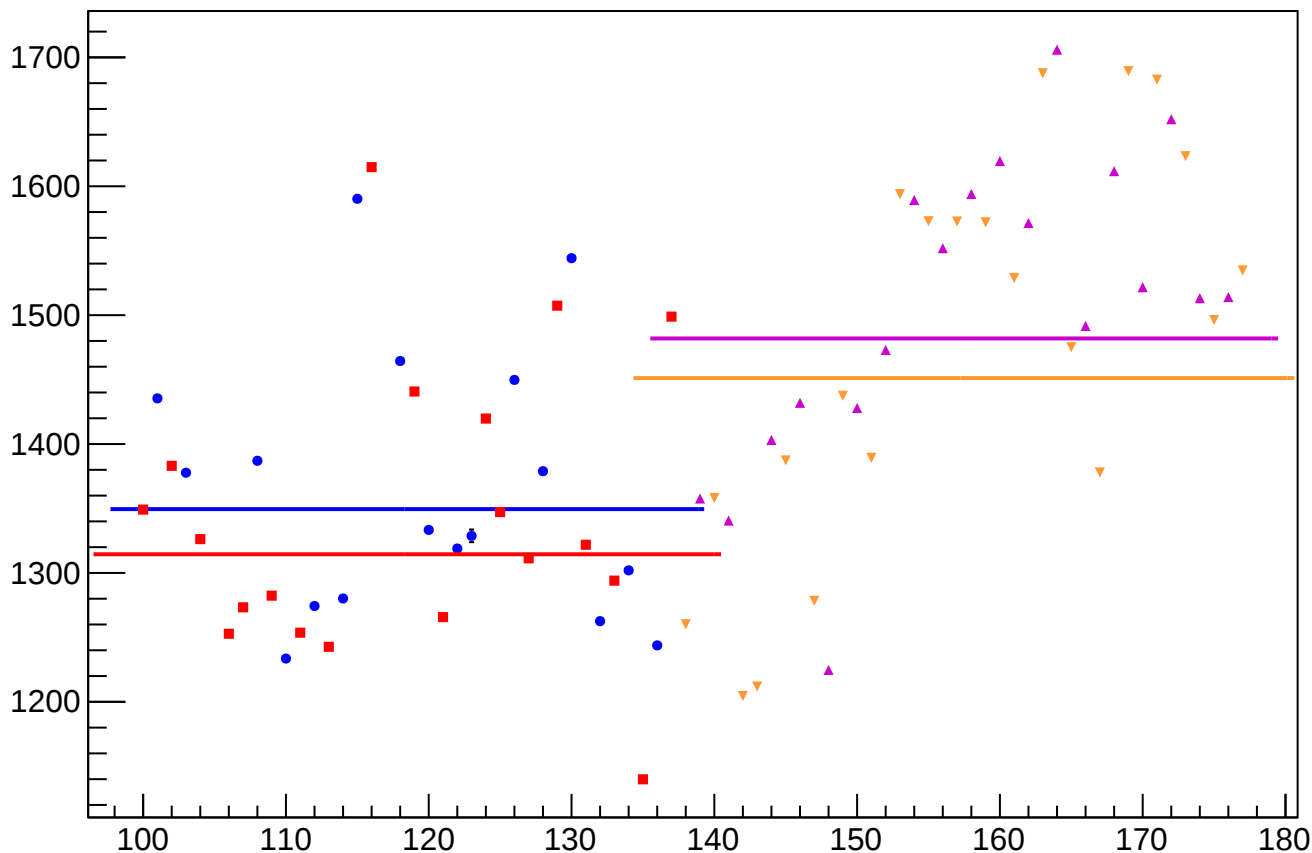
Right: 10.615 ± 0.359 $\chi^2/\text{NDF}: 1193.9/35$

In: 3.186 ± 0.312 $\chi^2/\text{NDF}: 1408.0/35$

Out: 3.975 ± 0.295 $\chi^2/\text{NDF}: 632.1/39$

All: 3.603 ± 0.214 $\chi^2/\text{NDF}: 2043.5/75$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1451.198 $\pm$ 0.260 χ^2 /NDF:326327.7/20

Right Out: 1314.485 $\pm$ 0.350 χ^2 /NDF: 80952.7/18

Left In: 1481.926 $\pm$ 0.275 χ^2 /NDF:195140.4/18

Left: 1465.682 $\pm$ 0.189 χ^2 /NDF: 528057.7/39

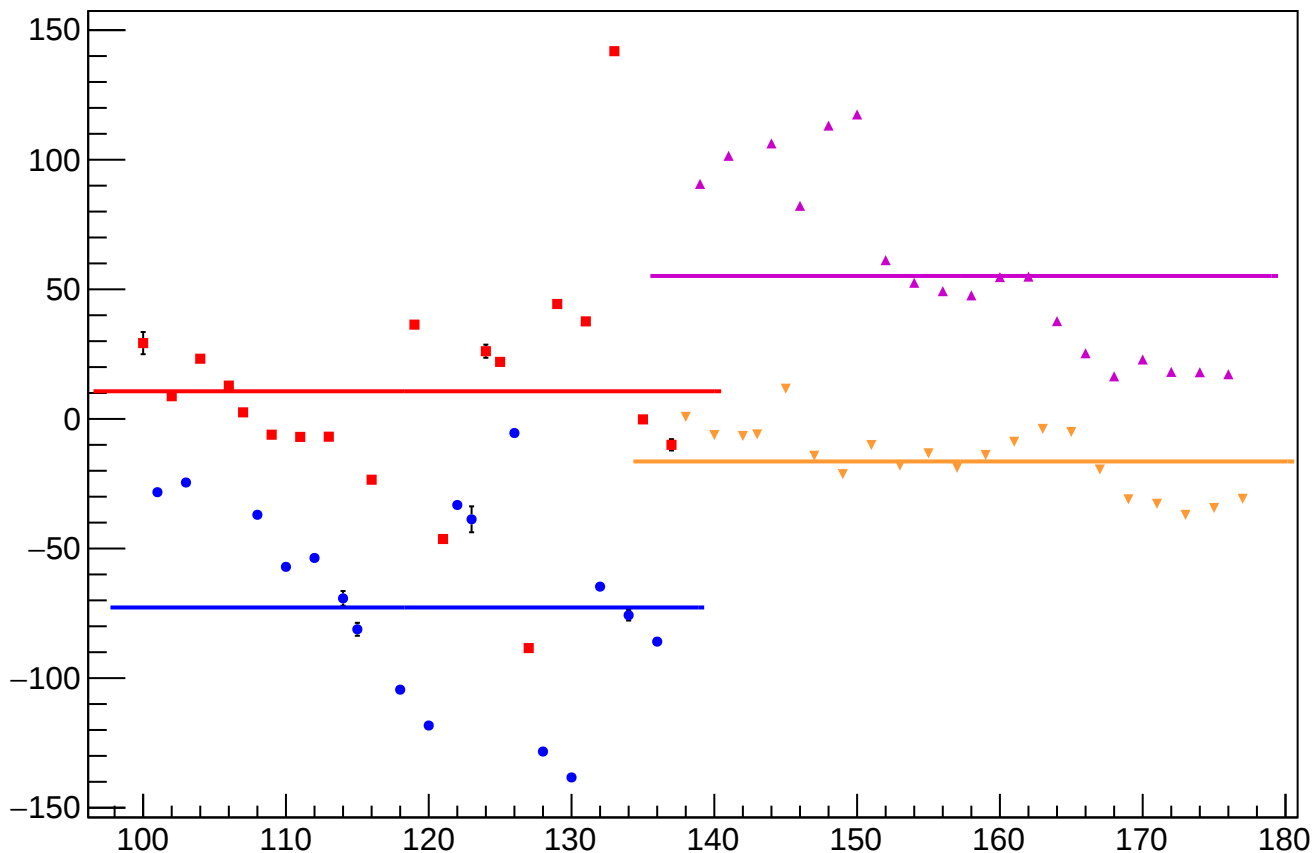
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1434.756 $\pm$ 0.221 χ^2 /NDF:342259.8/35

Out: 1402.533 $\pm$ 0.209 χ^2 /NDF:505785.9/39

All: 1417.725 $\pm$ 0.152 χ^2 /NDF: 859299.9/75

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741+/-0.362 χ^2/NDF : 11690.4/16

Left Out: -16.401+/-0.229 χ^2/NDF : 3100.7/20

Right Out: 10.671+/-0.352 χ^2/NDF : 18171.0/18

Left In: 55.158+/-0.240 χ^2/NDF : 19762.7/18

Left: 17.649+/-0.166 χ^2/NDF : 69369.3/39

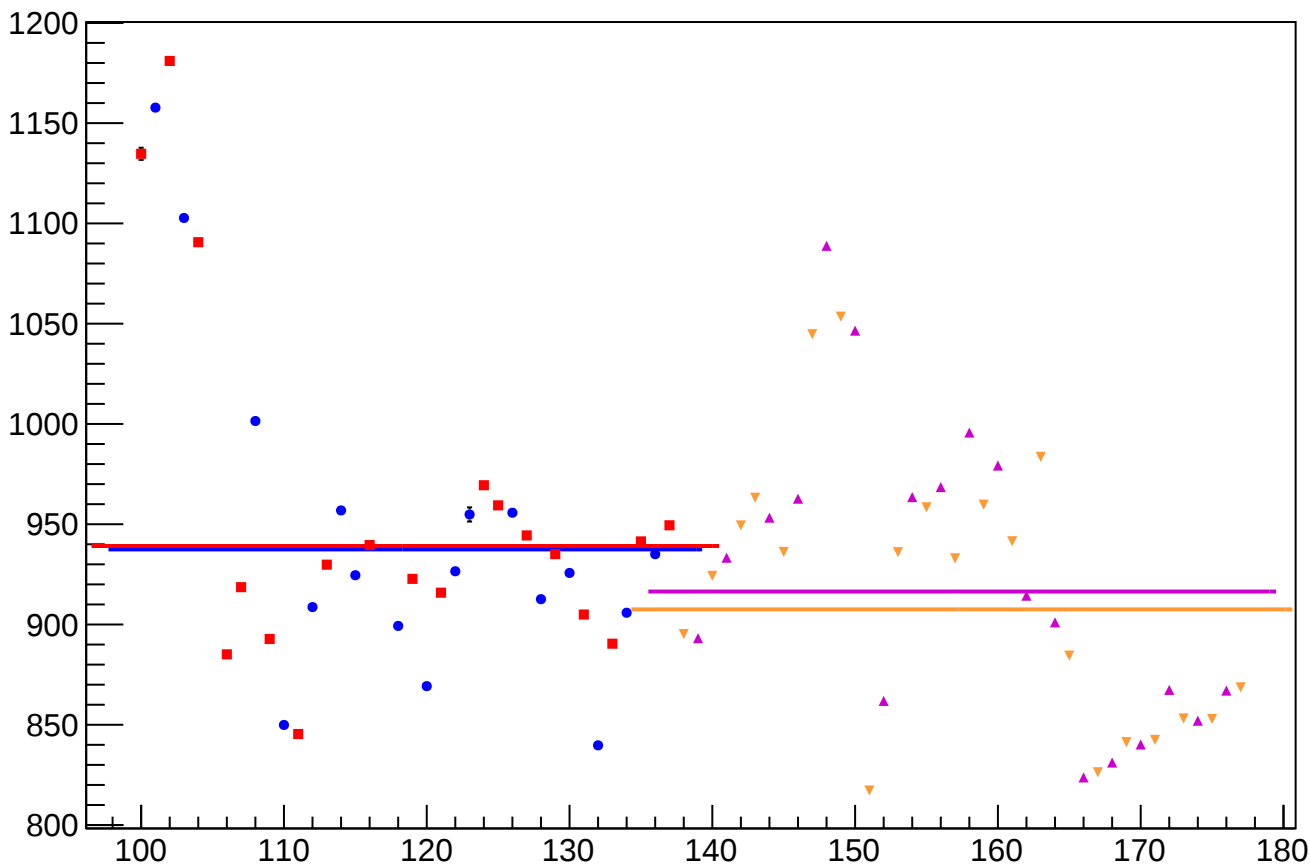
Right: -29.865+/-0.253 χ^2/NDF : 57099.2/35

In: 16.104+/-0.200 χ^2/NDF : 117996.6/35

Out: -8.366+/-0.192 χ^2/NDF : 25423.3/39

All: 3.352+/-0.139 χ^2/NDF : 151203.0/75

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454+/-0.256 χ^2/NDF : 98307.6/16

Left Out: 907.530+/-0.162 χ^2/NDF : 159709.1/20

Right Out: 939.140+/-0.249 χ^2/NDF : 90253.2/18

Left In: 916.438+/-0.170 χ^2/NDF : 169823.5/18

Left: 911.768+/-0.117 χ^2/NDF : 330974.0/39

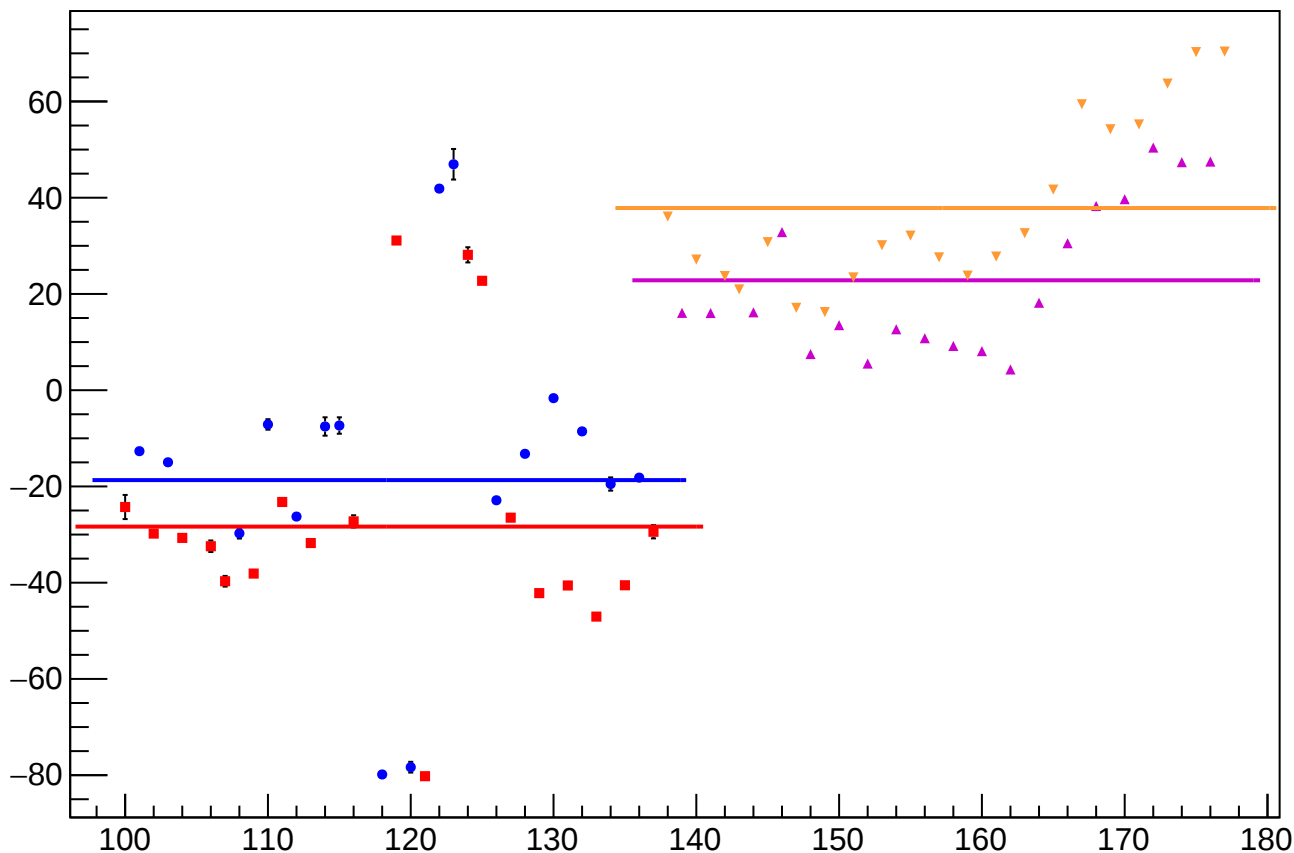
Right: 938.320+/-0.179 χ^2/NDF : 188583.1/35

In: 922.855+/-0.142 χ^2/NDF : 272804.4/35

Out: 916.912+/-0.136 χ^2/NDF : 261282.8/39

All: 919.758+/-0.098 χ^2/NDF : 535005.5/75

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683+/-0.243 χ^2/NDF : 13006.2/16

Left Out: 37.854+/-0.180 χ^2/NDF :9469.6/20

Right Out: -28.347+/-0.235 χ^2/NDF : 12508.1/18

Left In: 22.836+/-0.190 χ^2/NDF :6344.5/18

Left: 30.727+/-0.131 χ^2/NDF : 19103.0/39

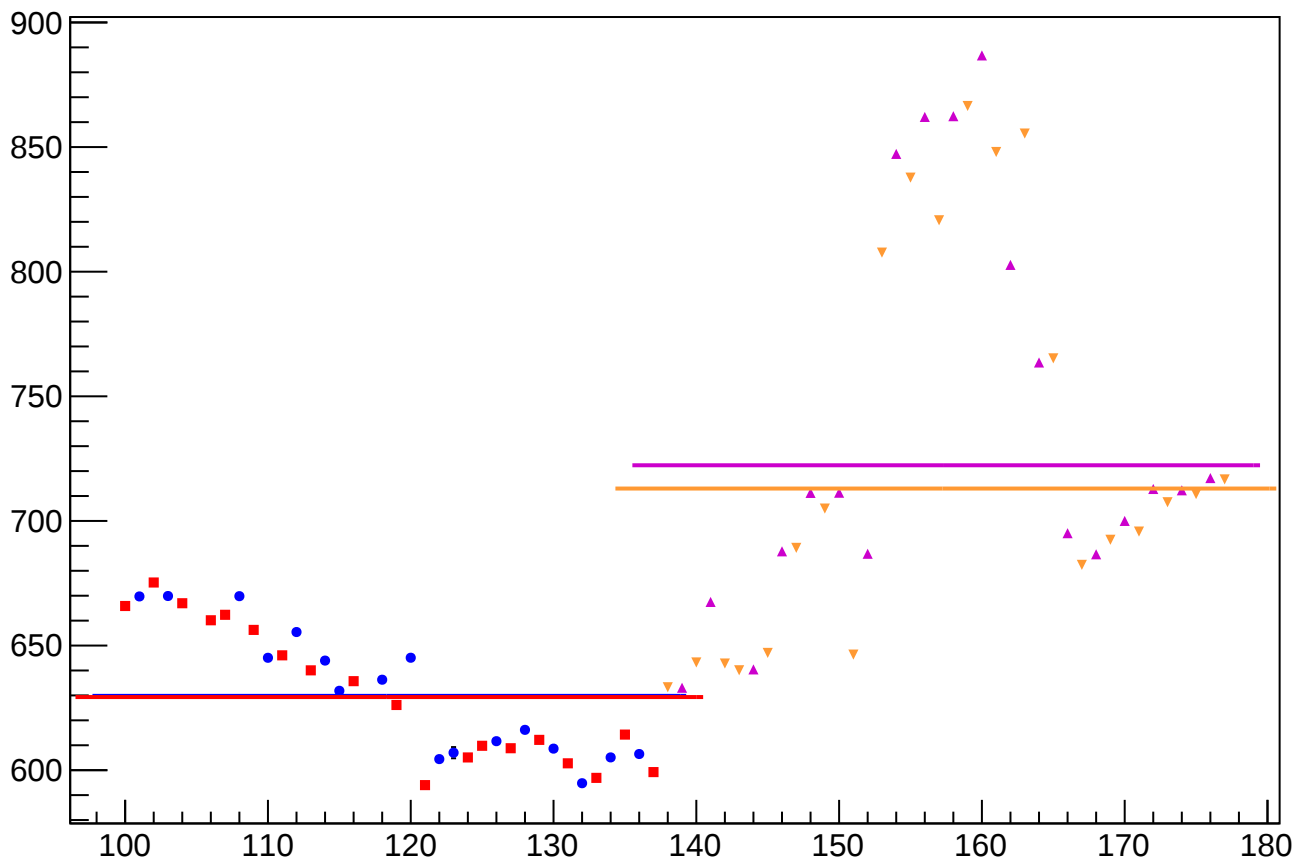
Right: -23.660+/-0.169 χ^2/NDF : 26331.1/35

In: 7.074+/-0.150 χ^2/NDF :37512.2/35

Out: 13.366+/-0.143 χ^2/NDF :71786.7/39

All: 10.355+/-0.103 χ^2/NDF : 110222.4/75

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 712.997+/-0.128 χ^2/NDF : 332335.6/20

Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18

Left In: 722.335+/-0.134 χ^2/NDF : 278273.7/18

Left: 717.429+/-0.092 χ^2/NDF : 613151.8/39

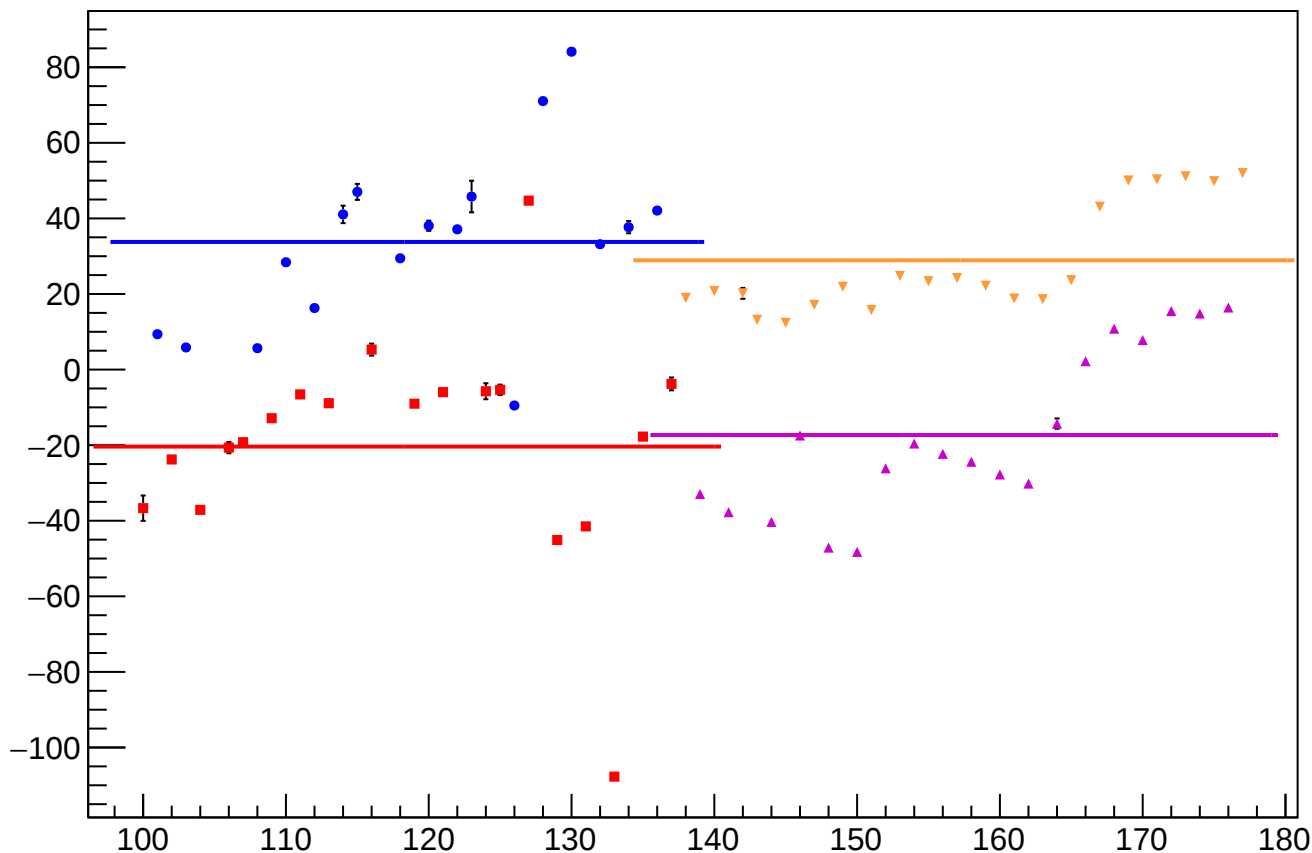
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 687.211+/-0.106 χ^2/NDF : 481938.7/35

Out: 682.051+/-0.101 χ^2/NDF : 516953.7/39

All: 684.520+/-0.073 χ^2/NDF : 1000134.8/75

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773 $\pm$ 0.300 χ^2 /NDF: 6487.9/16

Left Out: 28.924 $\pm$ 0.256 χ^2 /NDF:3097.6/20

Right Out: -20.375 $\pm$ 0.293 χ^2 /NDF: 11287.7/18

Left In: -17.312 $\pm$ 0.267 χ^2 /NDF:6501.6/18

Left: 6.782 $\pm$ 0.185 χ^2 /NDF: 25175.6/39

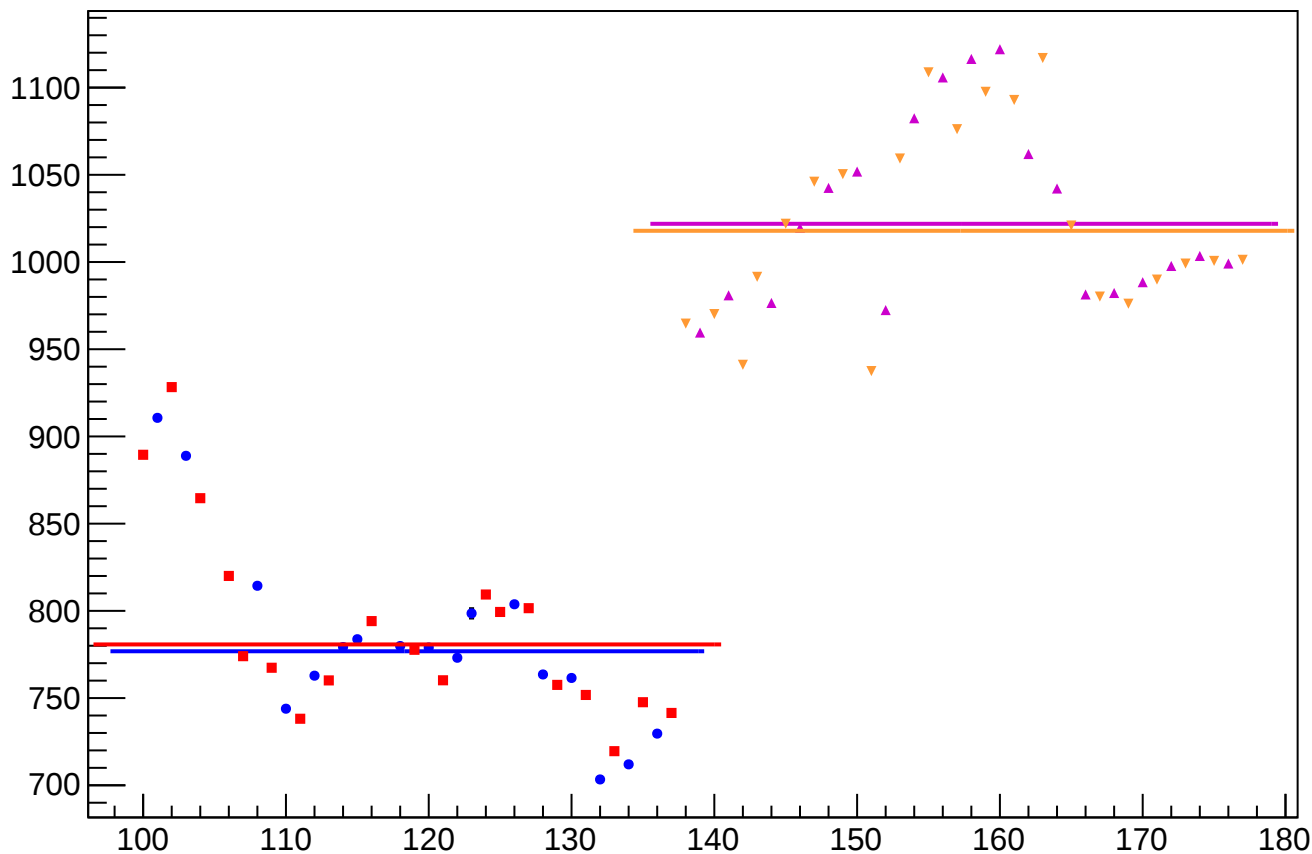
Right: 6.025 $\pm$ 0.209 χ^2 /NDF: 34481.3/35

In: 5.316 $\pm$ 0.200 χ^2 /NDF:29152.9/35

Out: 7.508 $\pm$ 0.193 χ^2 /NDF:30449.0/39

All: 6.450 $\pm$ 0.139 χ^2 /NDF: 59664.2/75

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1017.903 $\pm$ 0.181 χ^2 /NDF: 83022.6/20

Right Out: 780.755 $\pm$ 0.207 χ^2 /NDF: 57428.9/18

Left In: 1021.909 $\pm$ 0.189 χ^2 /NDF: 68556.3/18

Left: 1019.822 $\pm$ 0.131 χ^2 /NDF: 151812.9/39

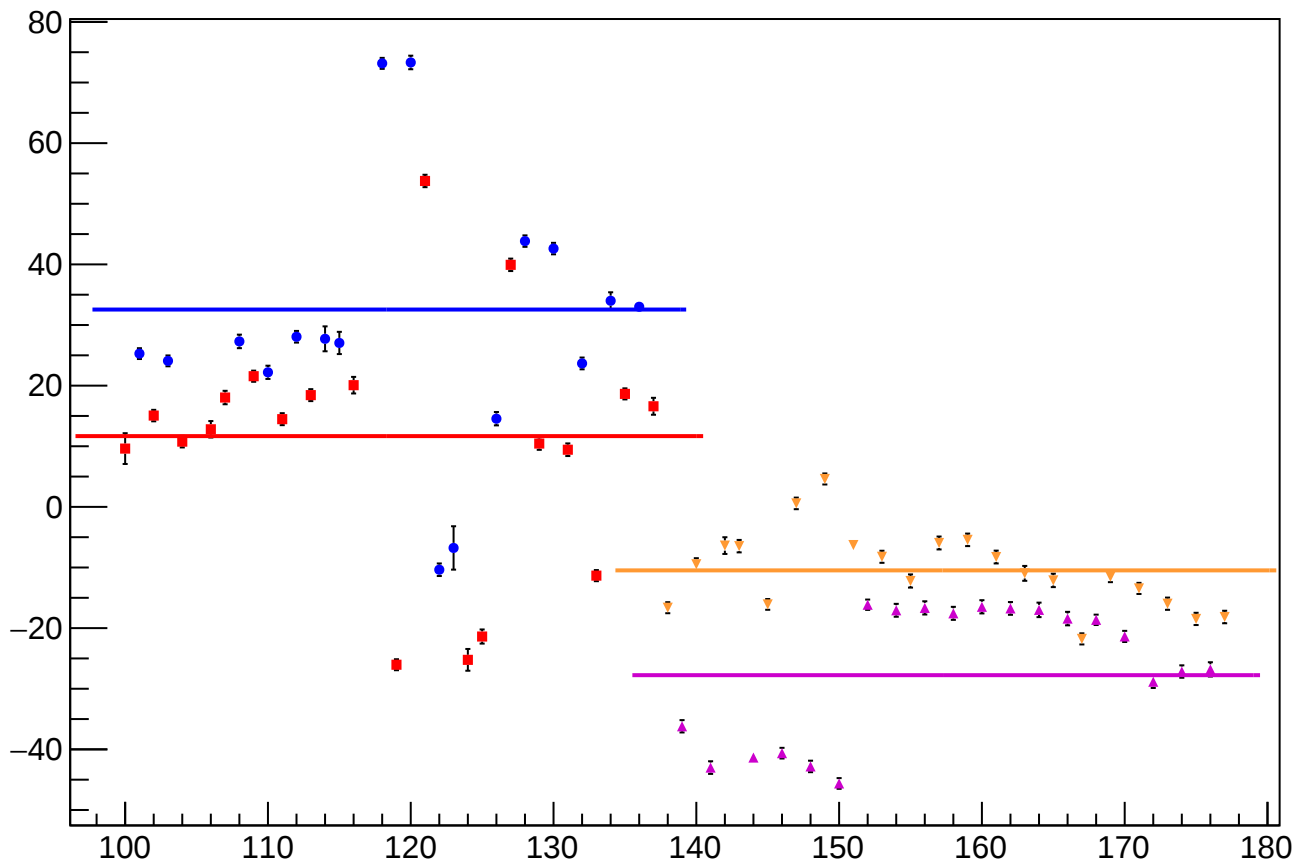
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 913.353 $\pm$ 0.141 χ^2 /NDF: 880030.4/35

Out: 914.881 $\pm$ 0.136 χ^2 /NDF: 883886.3/39

All: 914.143 $\pm$ 0.098 χ^2 /NDF: 1763977.3/75

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -10.475 ± 0.217 χ^2/NDF : 911.1/20

Right Out: 11.674 ± 0.247 χ^2/NDF : 6357.6/18

Left In: -27.761 ± 0.227 χ^2/NDF : 2438.8/18

Left: -18.726 ± 0.157 χ^2/NDF : 6380.5/39

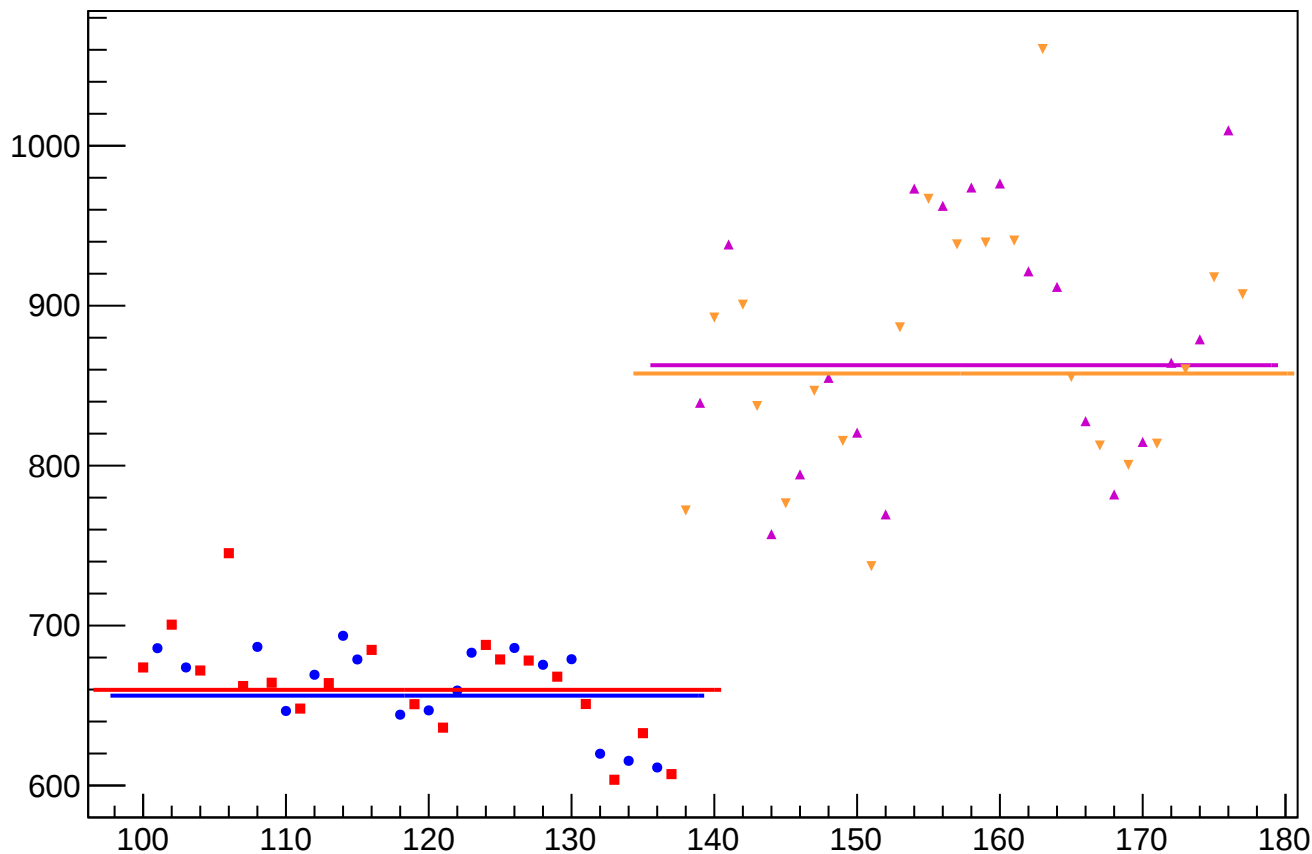
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: -0.845 ± 0.169 χ^2/NDF : 40014.3/35

Out: -0.830 ± 0.163 χ^2/NDF : 11808.5/39

All: -0.837 ± 0.117 χ^2/NDF : 51822.8/75

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 $\pm$ 0.179 χ^2 /NDF: 23569.6/16

Left Out: 857.605 $\pm$ 0.153 χ^2 /NDF:229032.2/20

Right Out: 659.813 $\pm$ 0.175 χ^2 /NDF: 28325.7/18

Left In: 862.787 $\pm$ 0.161 χ^2 /NDF:232401.8/18

Left: 860.078 $\pm$ 0.111 χ^2 /NDF: 461978.8/39

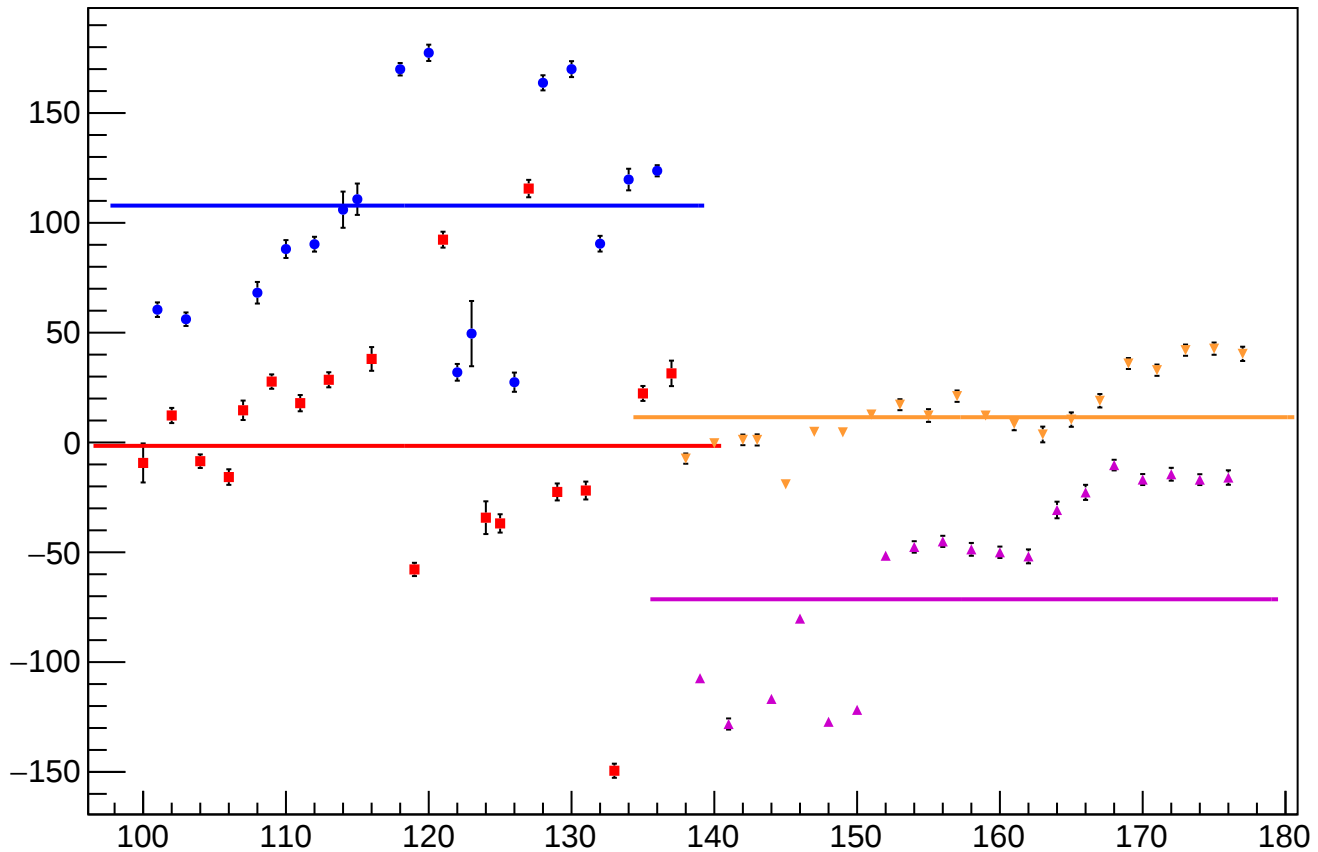
Right: 658.039 $\pm$ 0.125 χ^2 /NDF: 52106.5/35

In: 770.584 $\pm$ 0.119 χ^2 /NDF:995304.9/35

Out: 771.472 $\pm$ 0.115 χ^2 /NDF:981408.2/39

All: 771.044 $\pm$ 0.083 χ^2 /NDF: 1976741.7/75

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 χ^2/NDF : 2809.0/16

Left Out: 11.506 ± 0.532 χ^2/NDF : 929.9/20

Right Out: -1.542 ± 0.883 χ^2/NDF : 4523.8/18

Left In: -71.398 ± 0.547 χ^2/NDF : 6172.3/18

Left: -28.796 ± 0.381 χ^2/NDF : 18900.5/39

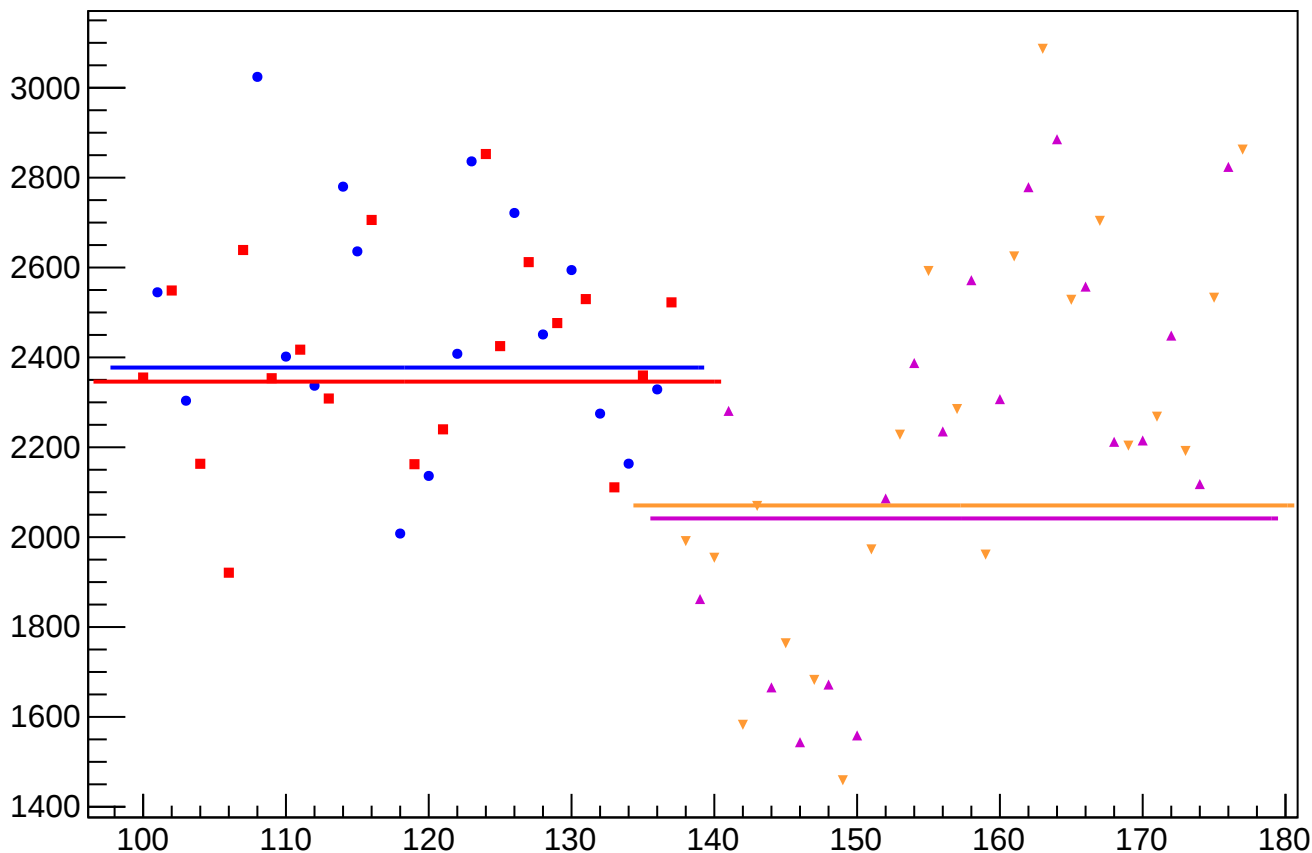
Right: 50.839 ± 0.638 χ^2/NDF : 14676.8/35

In: -24.680 ± 0.470 χ^2/NDF : 36955.3/35

Out: 8.031 ± 0.456 χ^2/NDF : 5613.7/39

All: -7.808 ± 0.327 χ^2/NDF : 45062.7/75

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 2070.574+/-0.376 χ^2/NDF : 1145441.9/20

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 2041.661+/-0.387 χ^2/NDF : 1086437.9/18

Left: 2056.519+/-0.270 χ^2/NDF : 2234749.8/39

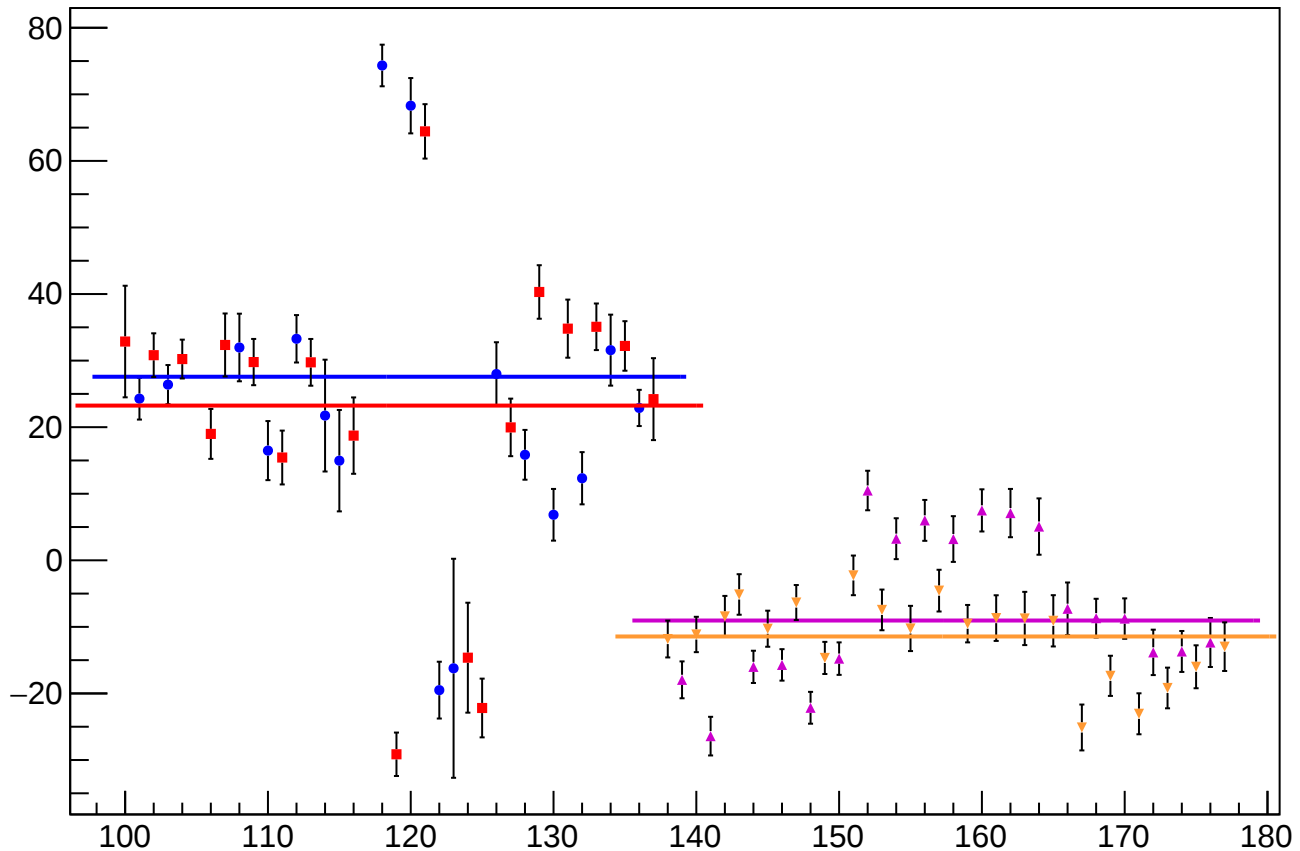
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2129.171+/-0.333 χ^2/NDF : 1402391.0/35

Out: 2143.953+/-0.322 χ^2/NDF : 1396493.6/39

All: 2136.795+/-0.231 χ^2/NDF : 2799903.0/75

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -11.443 ± 0.664 $\chi^2/\text{NDF}: 71.5/20$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -9.044 ± 0.684 $\chi^2/\text{NDF}: 257.4/18$

Left: -10.278 ± 0.476 $\chi^2/\text{NDF}: 335.2/39$

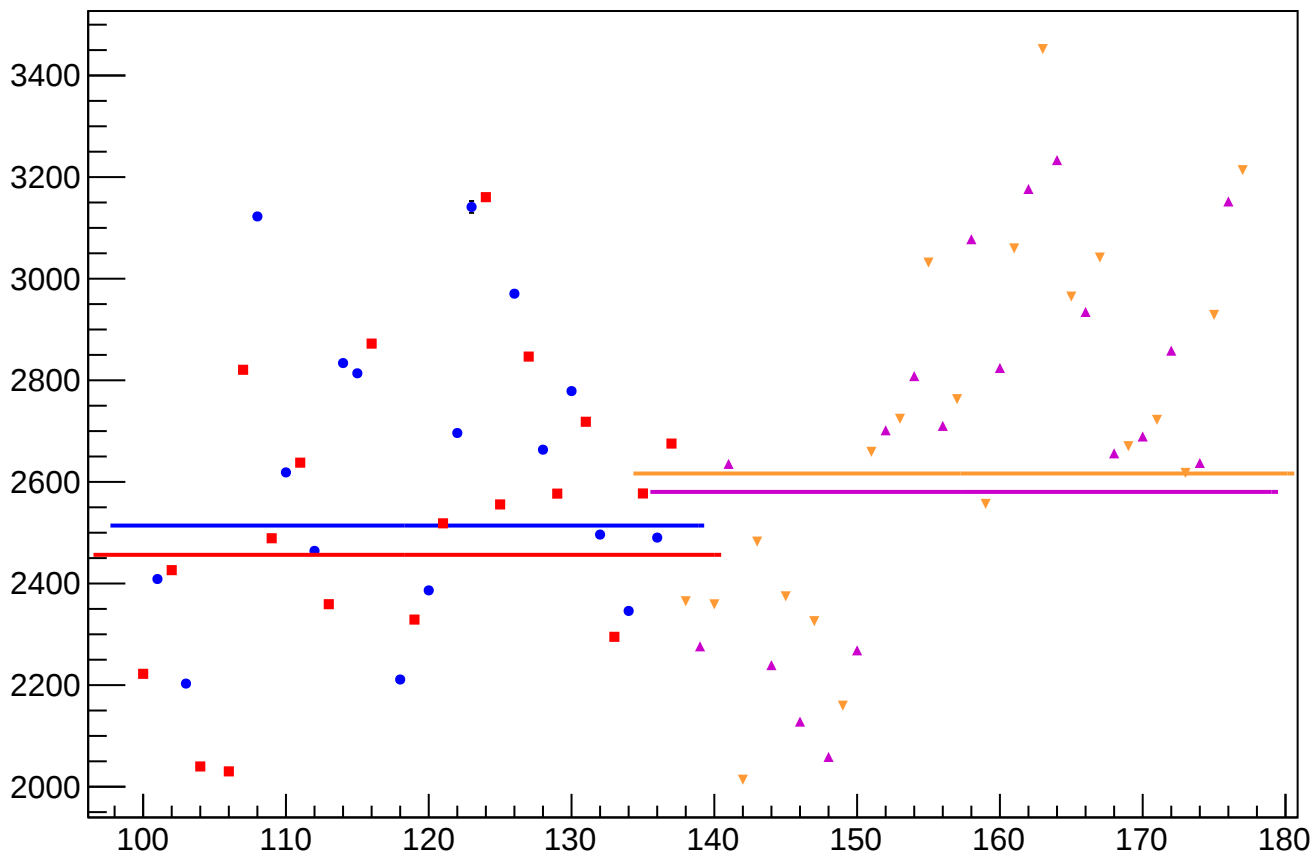
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 3.030 ± 0.560 $\chi^2/\text{NDF}: 1723.0/35$

Out: 0.327 ± 0.540 $\chi^2/\text{NDF}: 1554.3/39$

All: 1.630 ± 0.389 $\chi^2/\text{NDF}: 3289.4/75$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088+/-0.689 χ^2/NDF : 120961.3/16

Left Out: 2616.539+/-0.470 χ^2/NDF : 508632.8/20

Right Out: 2456.460+/-0.655 χ^2/NDF : 149732.7/18

Left In: 2580.306+/-0.483 χ^2/NDF : 521211.5/18

Left: 2598.942+/-0.337 χ^2/NDF : 1032733.6/39

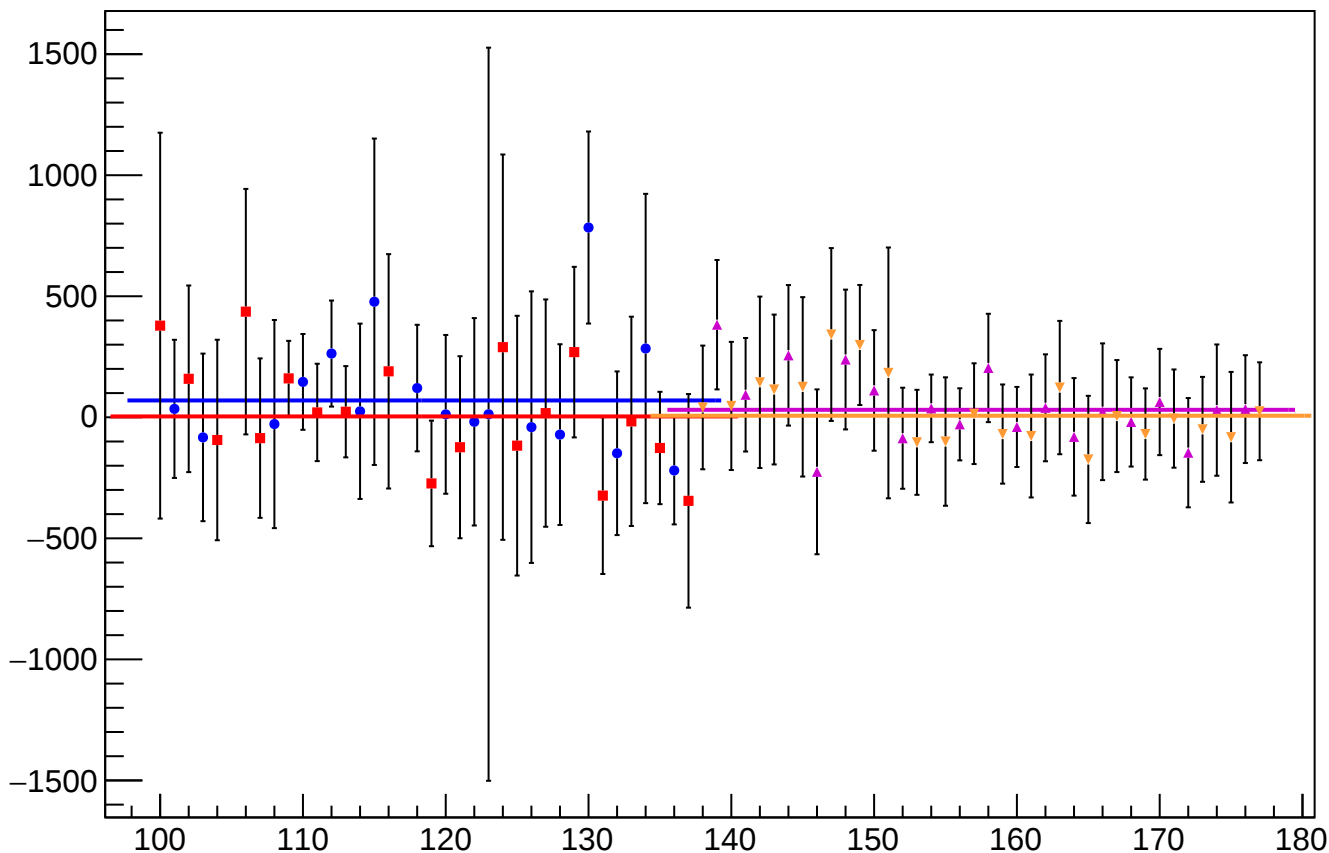
Right: 2483.827+/-0.475 χ^2/NDF : 274364.7/35

In: 2558.473+/-0.396 χ^2/NDF : 648359.1/35

Out: 2562.220+/-0.382 χ^2/NDF : 697768.5/39

All: 2560.414+/-0.275 χ^2/NDF : 1346174.0/75

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: 6.484 $\pm$ 54.288 χ^2 /NDF:4.5/20

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 30.915 $\pm$ 49.372 χ^2 /NDF:5.8/18

Left: 19.855 $\pm$ 36.526 χ^2 /NDF: 10.4/39

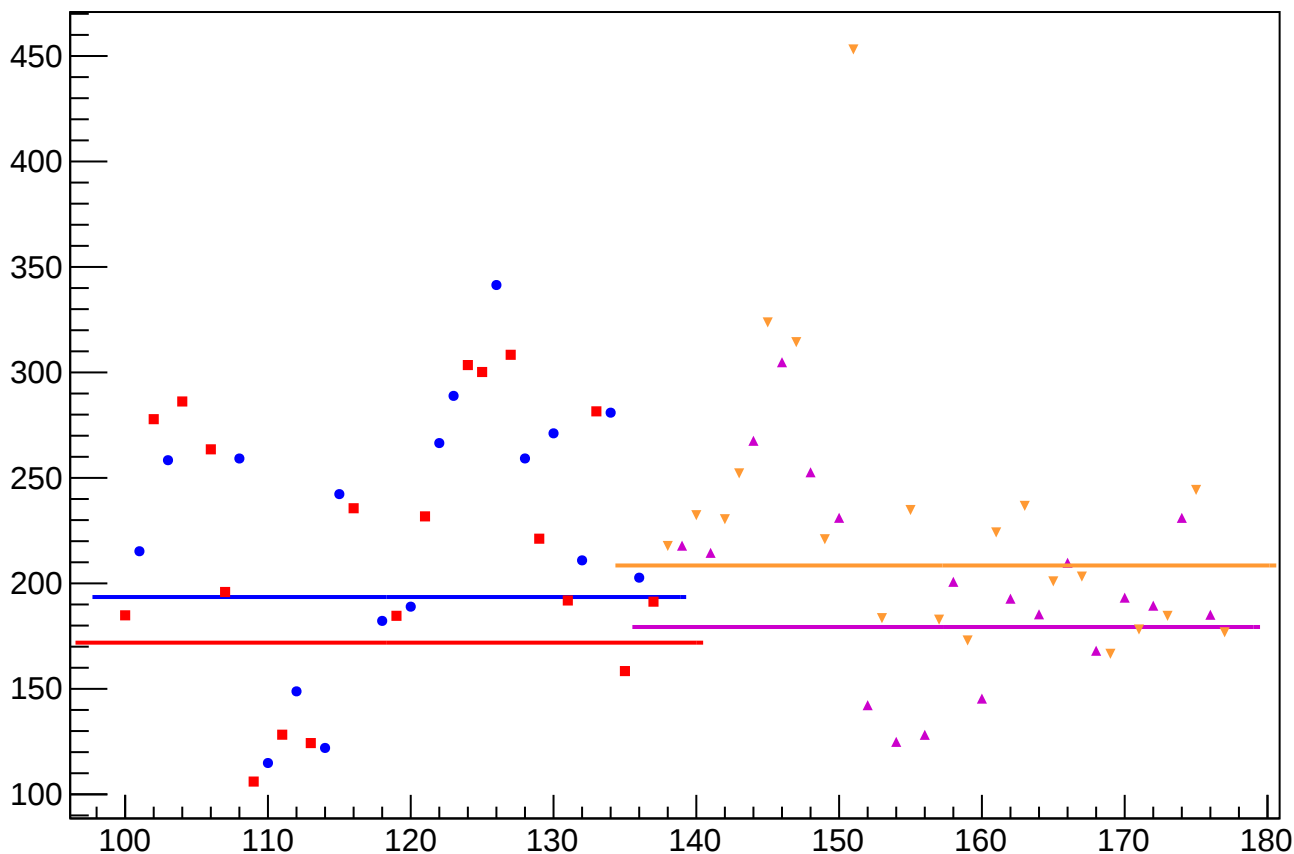
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 41.772 $\pm$ 41.872 χ^2 /NDF:13.3/35

Out: 5.386 $\pm$ 42.894 χ^2 /NDF:10.9/39

All: 24.018 $\pm$ 29.963 χ^2 /NDF: 24.5/75

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533+/-0.056 χ^2/NDF : 1010428.2/16

Left Out: 208.490+/-0.038 χ^2/NDF :1306739.7/20

Right Out: 171.901+/-0.049 χ^2/NDF : 1576883.7/18

Left In: 179.325+/-0.035 χ^2/NDF :1589452.8/18

Left: 192.527+/-0.026 χ^2/NDF : 3212132.1/39

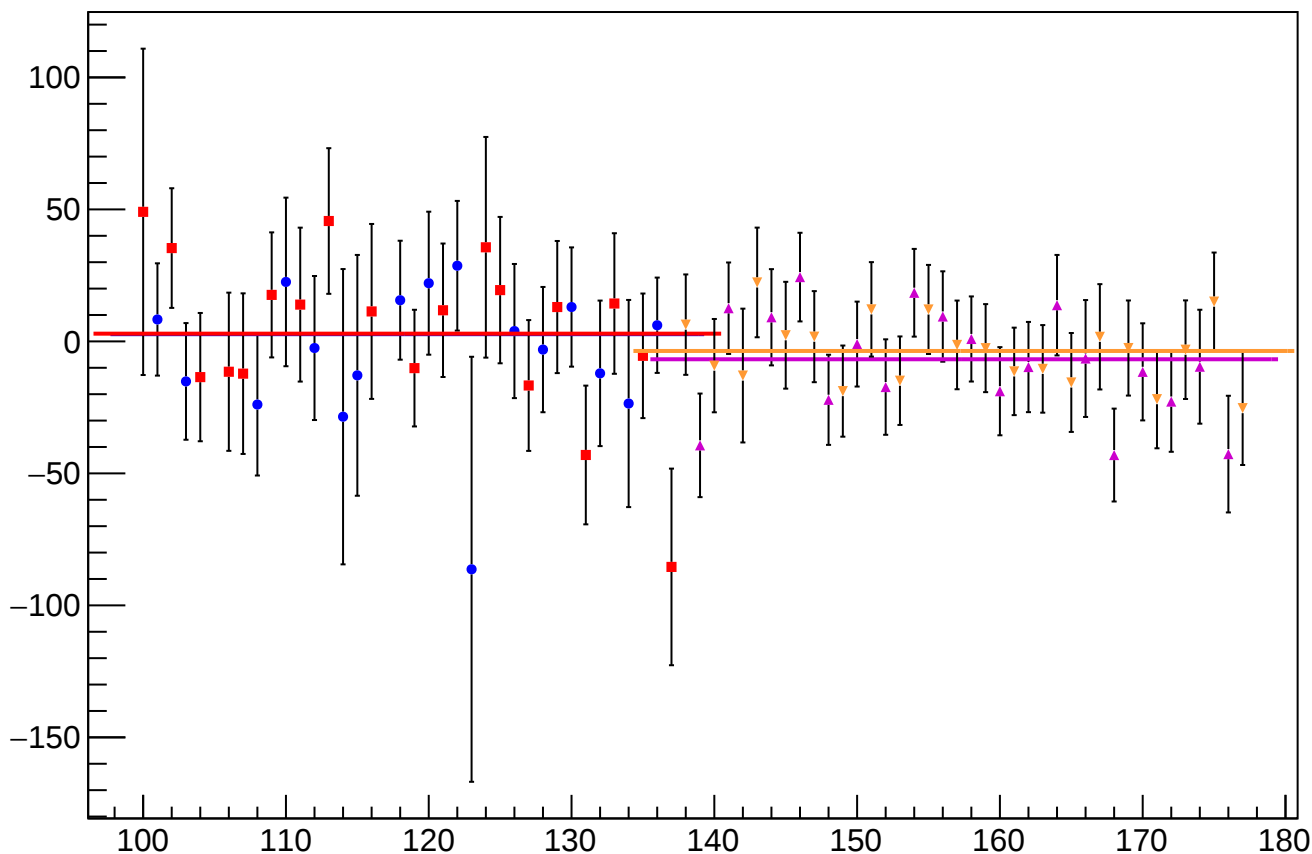
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 183.314+/-0.030 χ^2/NDF :2646385.2/35

Out: 194.743+/-0.030 χ^2/NDF :3224963.7/39

All: 188.891+/-0.021 χ^2/NDF : 5944061.9/75

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: -3.629 ± 3.989 $\chi^2/\text{NDF}: 9.0/20$

Right Out: 2.928 ± 6.279 $\chi^2/\text{NDF}: 17.8/18$

Left In: -6.773 ± 4.128 $\chi^2/\text{NDF}: 22.3/18$

Left: -5.147 ± 2.868 $\chi^2/\text{NDF}: 31.6/39$

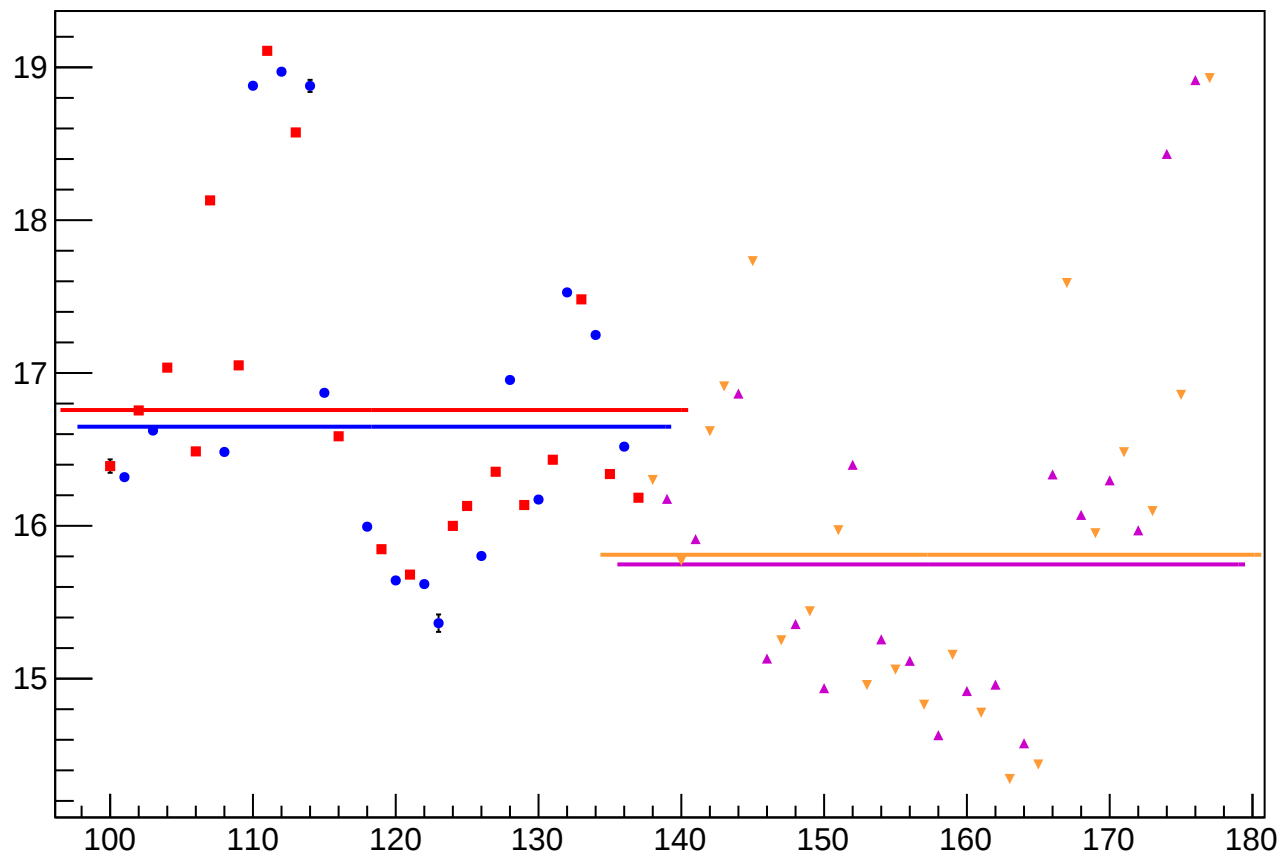
Right: 2.833 ± 4.490 $\chi^2/\text{NDF}: 24.5/35$

In: -3.995 ± 3.473 $\chi^2/\text{NDF}: 30.6/35$

Out: -1.743 ± 3.367 $\chi^2/\text{NDF}: 27.5/39$

All: -2.834 ± 2.417 $\chi^2/\text{NDF}: 58.4/75$

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: 15.811 $\pm$ 0.003 χ^2 /NDF:150746.8/20

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.748 $\pm$ 0.003 χ^2 /NDF:127137.5/18

Left: 15.780 $\pm$ 0.002 χ^2 /NDF: 278126.7/39

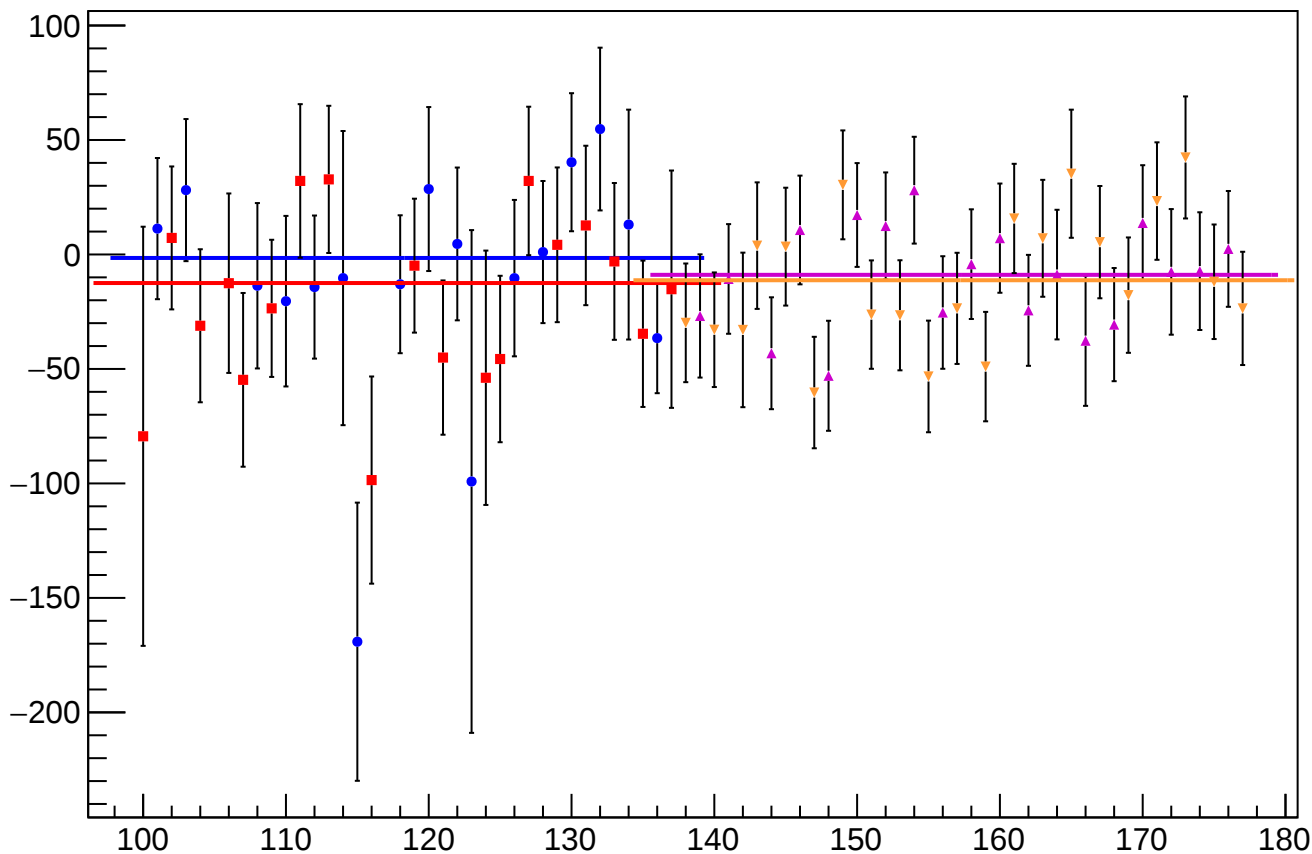
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 16.011 $\pm$ 0.002 χ^2 /NDF:197548.7/35

Out: 16.083 $\pm$ 0.002 χ^2 /NDF:223113.9/39

All: 16.048 $\pm$ 0.002 χ^2 /NDF: 421107.9/75

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: -11.259 ± 5.517 χ^2/NDF : 27.2/20

Right Out: -12.475 ± 8.210 χ^2/NDF : 15.6/18

Left In: -8.896 ± 5.691 χ^2/NDF : 15.3/18

Left: -10.114 ± 3.962 χ^2/NDF : 42.5/39

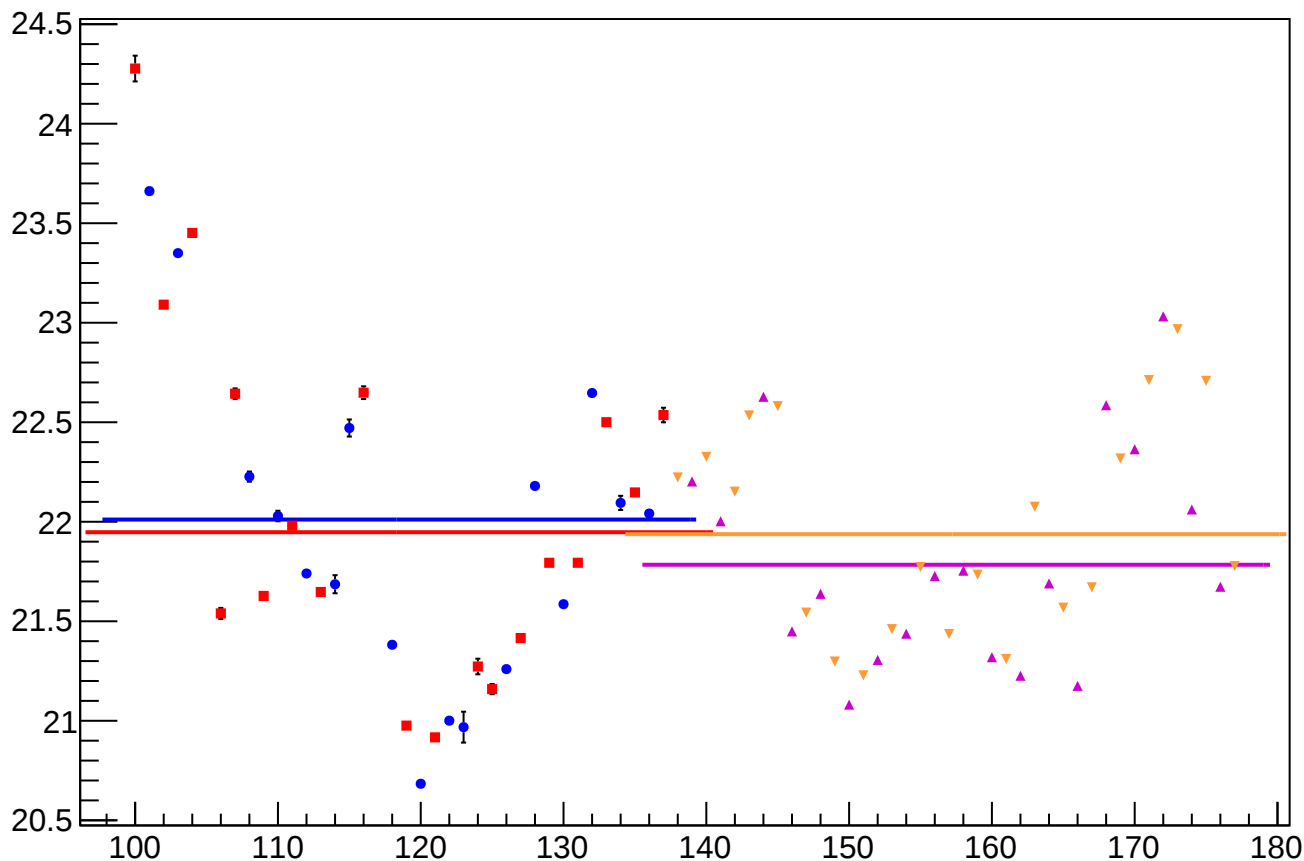
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -6.608 ± 4.727 χ^2/NDF : 33.4/35

Out: -11.637 ± 4.579 χ^2/NDF : 42.8/39

All: -9.202 ± 3.289 χ^2/NDF : 76.8/75

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: 21.938 $\pm$ 0.004 χ^2 /NDF:17902.6/20

Right Out: 21.947 $\pm$ 0.006 χ^2 /NDF: 16592.7/18

Left In: 21.784 $\pm$ 0.004 χ^2 /NDF:17049.9/18

Left: 21.863 $\pm$ 0.003 χ^2 /NDF: 35704.0/39

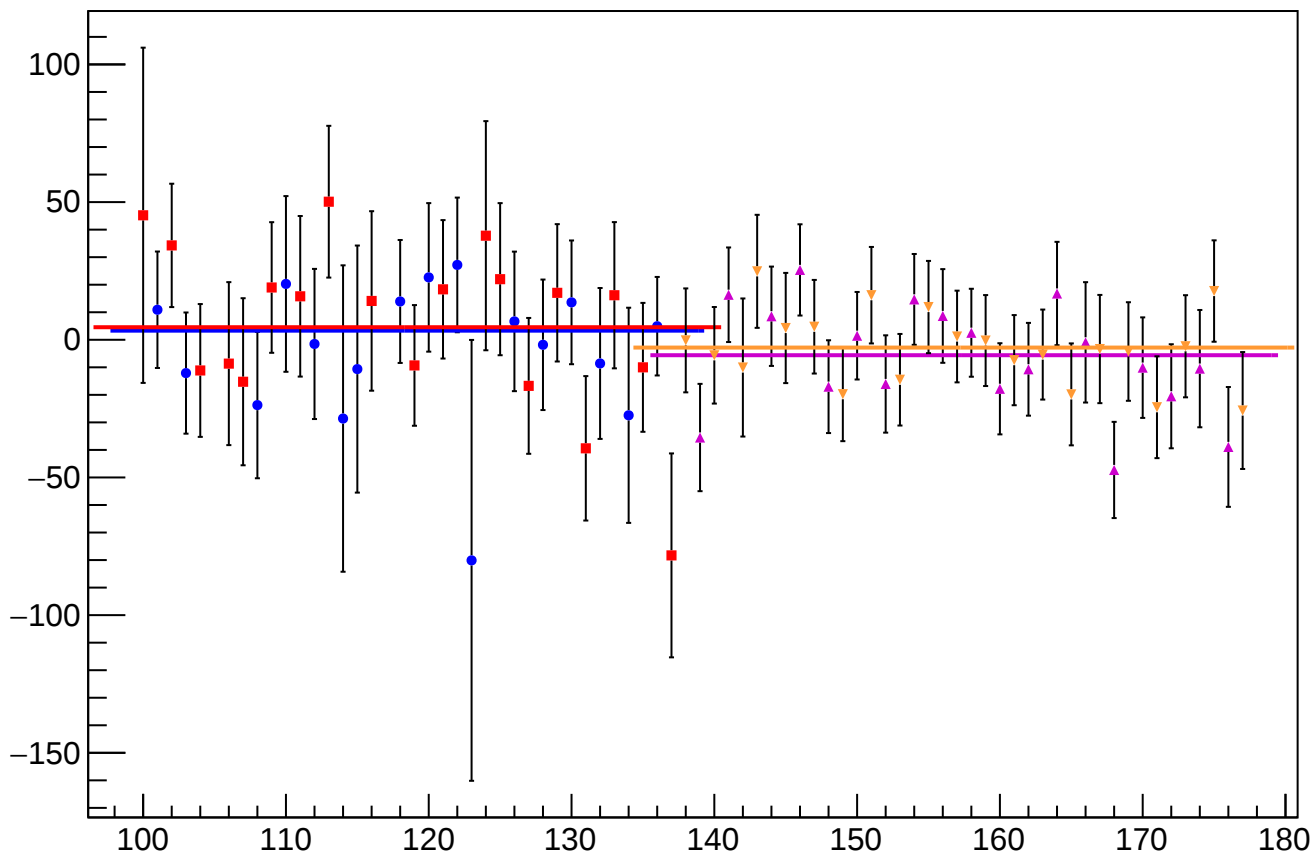
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 34197.9/35

In: 21.854 $\pm$ 0.003 χ^2 /NDF:35586.2/35

Out: 21.941 $\pm$ 0.003 χ^2 /NDF:34497.3/39

All: 21.899 $\pm$ 0.002 χ^2 /NDF: 70426.7/75

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: -2.829 ± 3.946 $\chi^2/\text{NDF}: 10.5/20$

Right Out: 4.561 ± 6.244 $\chi^2/\text{NDF}: 17.7/18$

Left In: -5.605 ± 4.083 $\chi^2/\text{NDF}: 22.5/18$

Left: -4.169 ± 2.837 $\chi^2/\text{NDF}: 33.2/39$

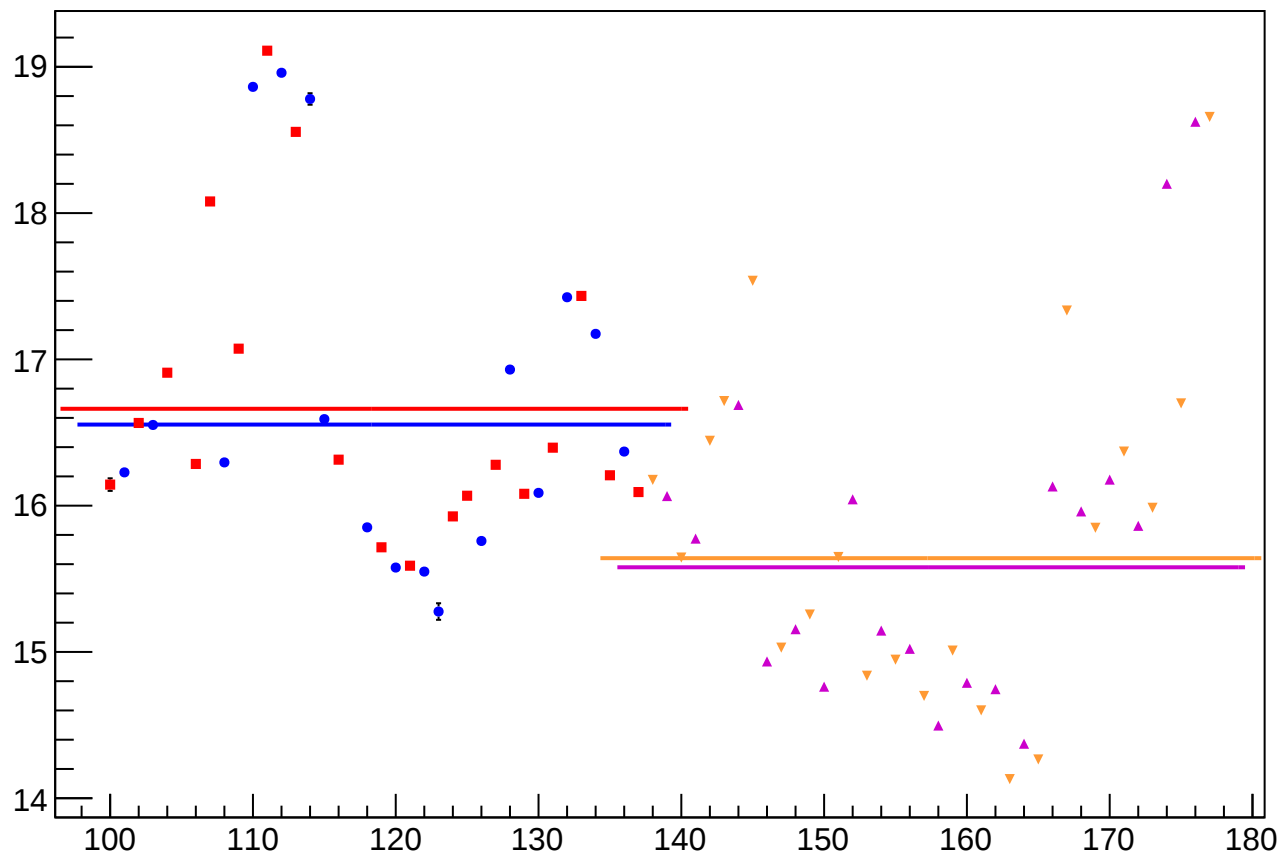
Right: 3.953 ± 4.465 $\chi^2/\text{NDF}: 24.0/35$

In: -3.017 ± 3.441 $\chi^2/\text{NDF}: 30.1/35$

Out: -0.720 ± 3.335 $\chi^2/\text{NDF}: 29.2/39$

All: -1.833 ± 2.395 $\chi^2/\text{NDF}: 59.6/75$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554+/-0.005 χ^2/NDF : 44475.2/16

Left Out: 15.641+/-0.003 χ^2/NDF :150237.4/20

Right Out: 16.662+/-0.004 χ^2/NDF : 43063.6/18

Left In: 15.579+/-0.003 χ^2/NDF :124756.9/18

Left: 15.611+/-0.002 χ^2/NDF : 275235.1/39

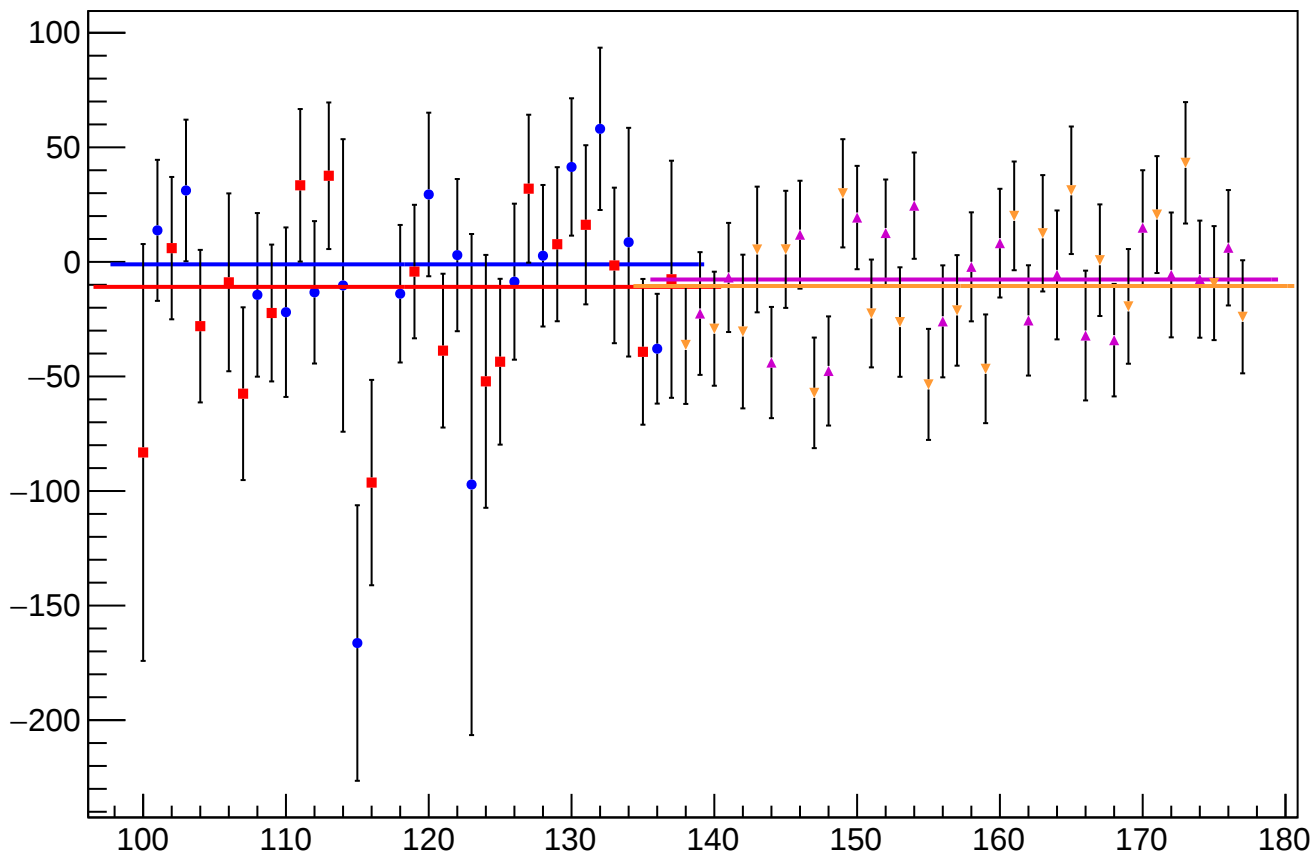
Right: 16.610+/-0.003 χ^2/NDF : 87830.7/35

In: 15.862+/-0.002 χ^2/NDF :202351.5/35

Out: 15.932+/-0.002 χ^2/NDF :231542.1/39

All: 15.898+/-0.002 χ^2/NDF : 434329.8/75

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: -10.521 ± 5.484 χ^2/NDF : 26.6/20

Right Out: -10.900 ± 8.169 χ^2/NDF : 16.2/18

Left In: -7.682 ± 5.658 χ^2/NDF : 14.8/18

Left: -9.146 ± 3.938 χ^2/NDF : 41.6/39

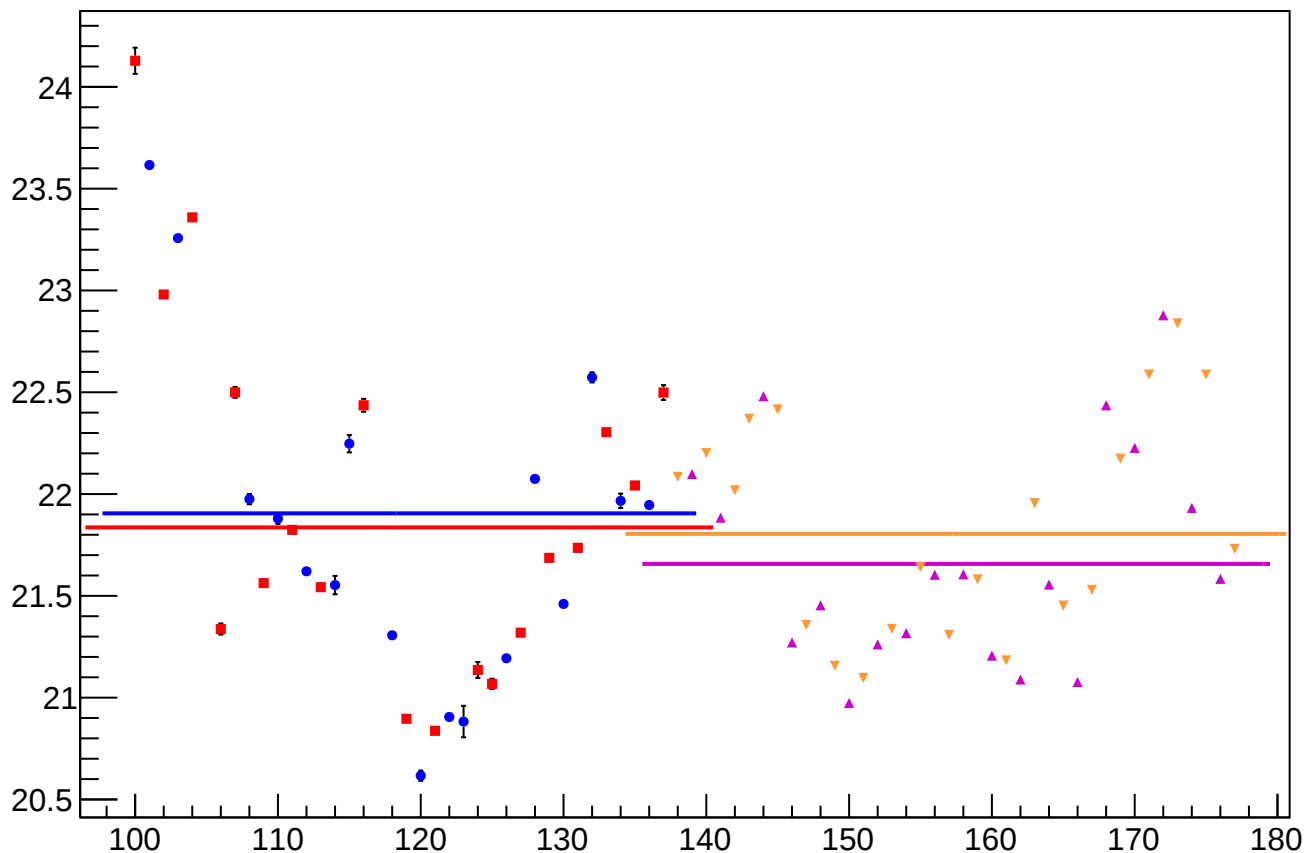
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -5.633 ± 4.700 χ^2/NDF : 33.7/35

Out: -10.639 ± 4.553 χ^2/NDF : 42.9/39

All: -8.215 ± 3.270 χ^2/NDF : 77.2/75

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: 21.804 $\pm$ 0.004 χ^2 /NDF: 18078.2/20

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.657 $\pm$ 0.004 χ^2 /NDF: 16574.7/18

Left: 21.733 $\pm$ 0.003 χ^2 /NDF: 35354.6/39

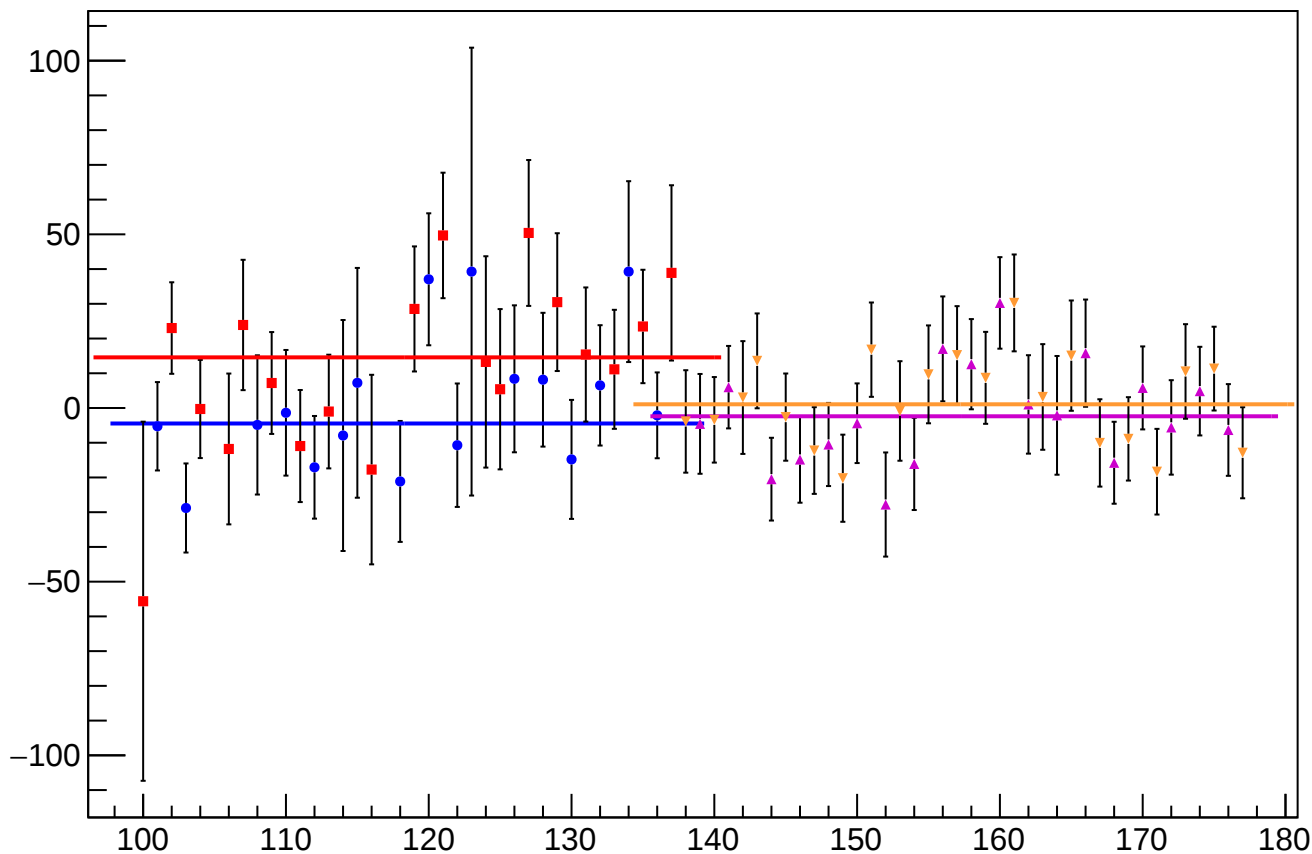
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.734 $\pm$ 0.003 χ^2 /NDF: 35562.3/35

Out: 21.814 $\pm$ 0.003 χ^2 /NDF: 34350.2/39

All: 21.775 $\pm$ 0.002 χ^2 /NDF: 70215.2/75

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: 1.069 ± 2.925 χ^2/NDF : 19.7/20

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -2.384 ± 3.011 χ^2/NDF : 21.0/18

Left: -0.607 ± 2.098 χ^2/NDF : 41.5/39

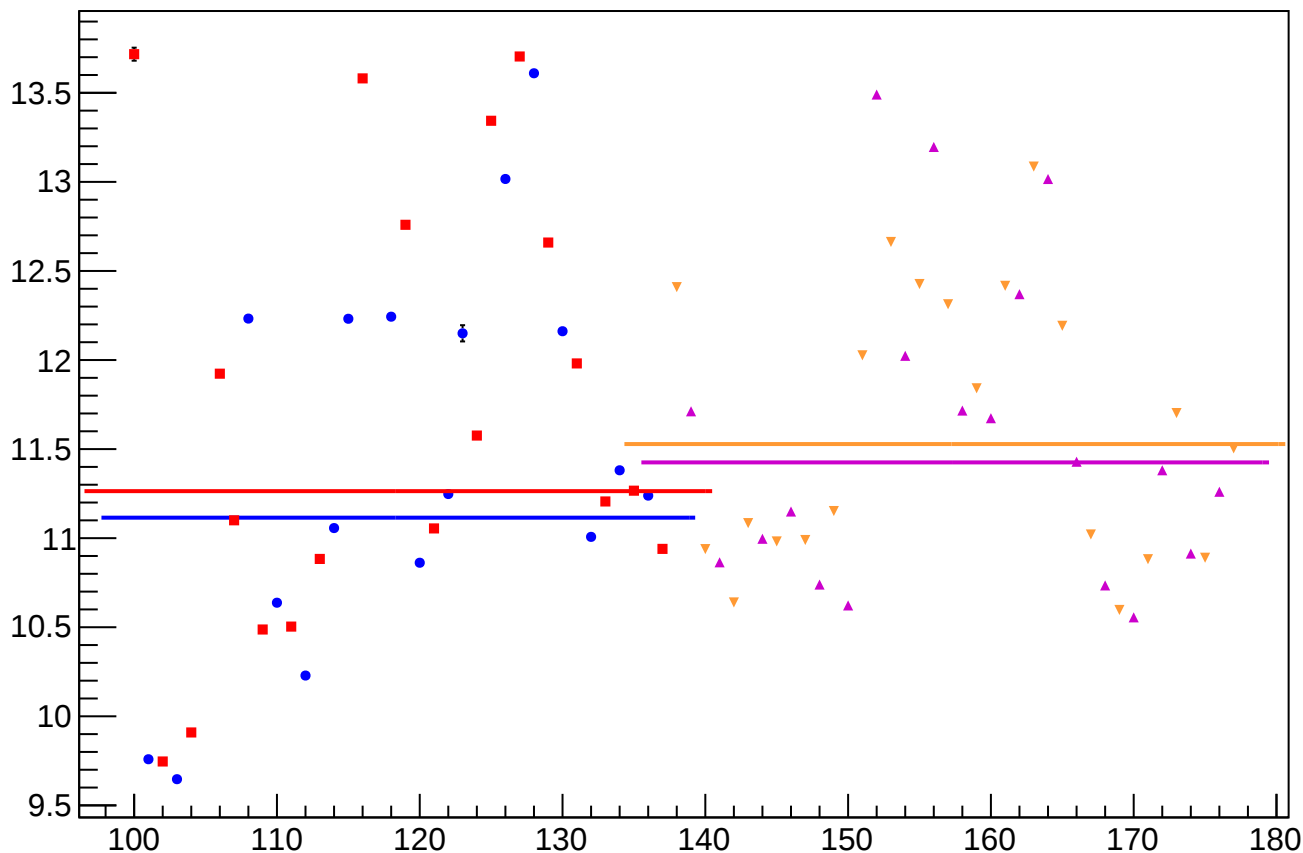
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -3.061 ± 2.472 χ^2/NDF : 36.4/35

Out: 5.392 ± 2.412 χ^2/NDF : 46.1/39

All: 1.269 ± 1.726 χ^2/NDF : 88.5/75

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115 $\pm$ 0.003 χ^2 /NDF: 133059.3/16

Left Out: 11.528 $\pm$ 0.002 χ^2 /NDF:119131.8/20

Right Out: 11.264 $\pm$ 0.003 χ^2 /NDF: 147483.5/18

Left In: 11.425 $\pm$ 0.002 χ^2 /NDF:143649.5/18

Left: 11.478 $\pm$ 0.001 χ^2 /NDF: 263985.9/39

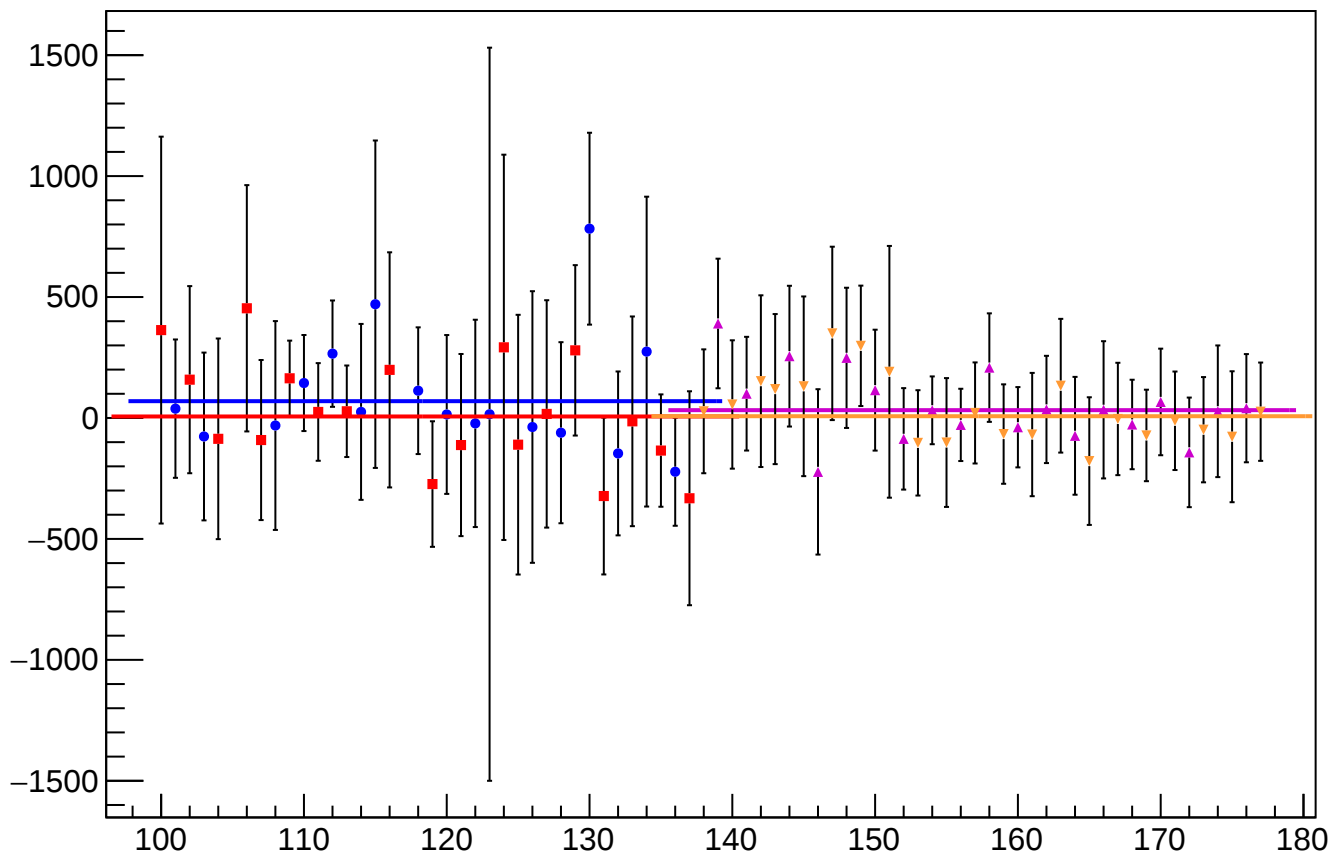
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.324 $\pm$ 0.002 χ^2 /NDF:283632.3/35

Out: 11.444 $\pm$ 0.002 χ^2 /NDF:271842.3/39

All: 11.385 $\pm$ 0.001 χ^2 /NDF: 557872.7/75

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470 $\pm$ 79.231 χ^2 /NDF: 7.3/16

Left Out: 7.277 $\pm$ 54.485 χ^2 /NDF: 4.6/20

Right Out: 6.194 $\pm$ 70.182 χ^2 /NDF: 6.5/18

Left In: 32.335 $\pm$ 49.545 χ^2 /NDF: 5.9/18

Left: 20.993 $\pm$ 36.656 χ^2 /NDF: 10.6/39

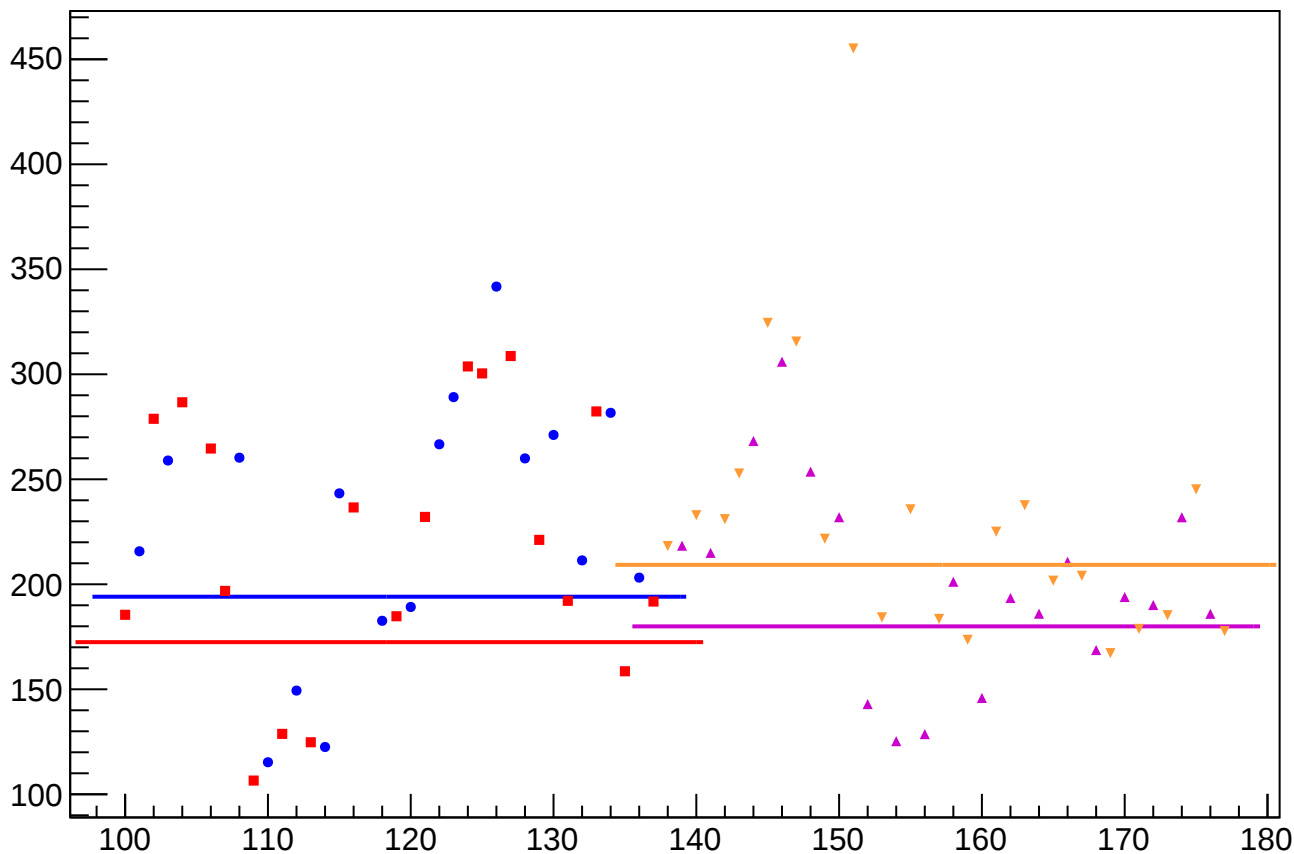
Right: 34.014 $\pm$ 52.536 χ^2 /NDF: 14.1/35

In: 42.774 $\pm$ 42.008 χ^2 /NDF: 13.3/35

Out: 6.870 $\pm$ 43.038 χ^2 /NDF: 11.0/39

All: 25.257 $\pm$ 30.062 χ^2 /NDF: 24.7/75

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: 209.252 $\pm$ 0.039 χ^2 /NDF:1304813.0/20

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 179.959 $\pm$ 0.035 χ^2 /NDF:1587771.5/18

Left: 193.218 $\pm$ 0.026 χ^2 /NDF: 3209014.2/39

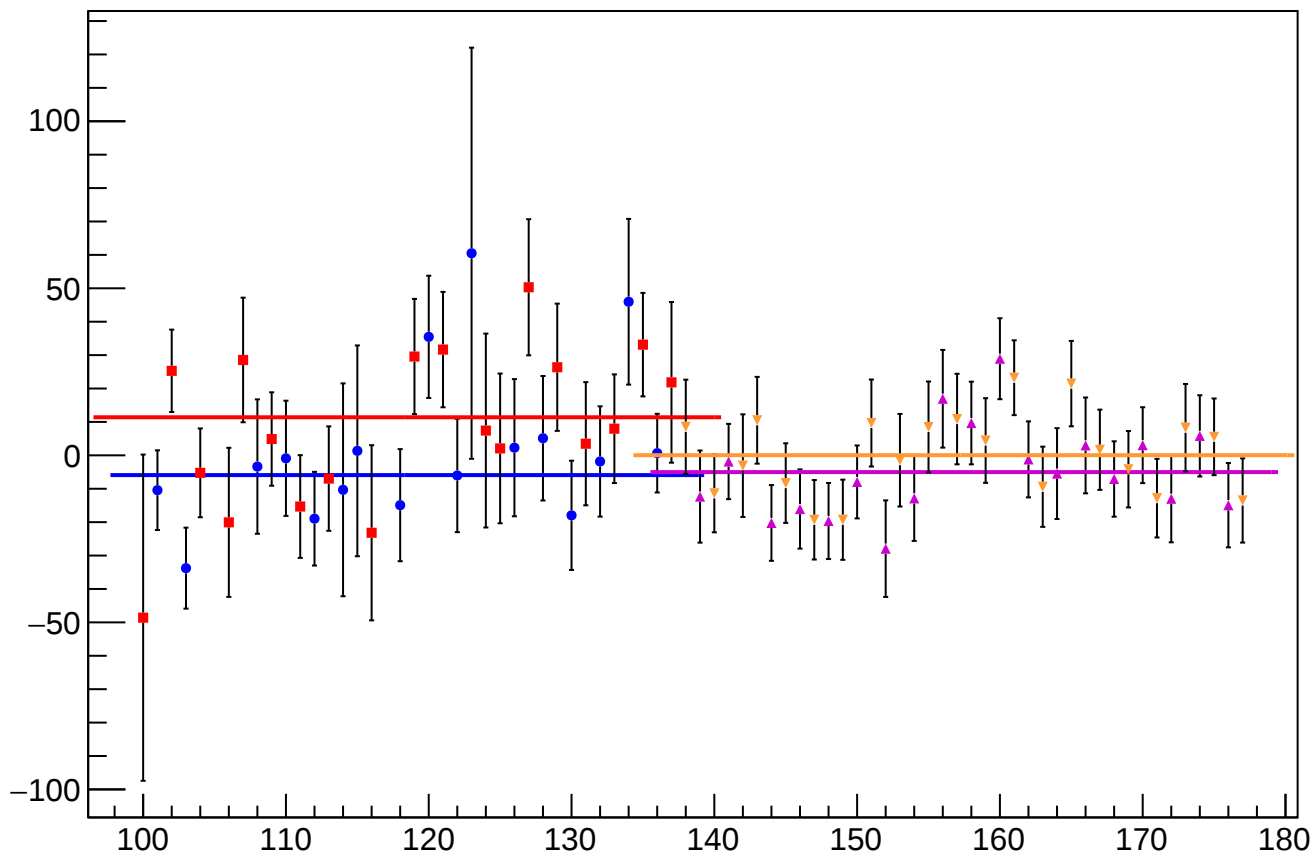
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 183.929 $\pm$ 0.030 χ^2 /NDF:2638846.3/35

Out: 195.413 $\pm$ 0.030 χ^2 /NDF:3217374.8/39

All: 189.532 $\pm$ 0.021 χ^2 /NDF: 5929145.4/75

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: 0.044 ± 2.728 χ^2/NDF : 20.3/20

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -5.020 ± 2.821 χ^2/NDF : 21.9/18

Left: -2.403 ± 1.961 χ^2/NDF : 43.9/39

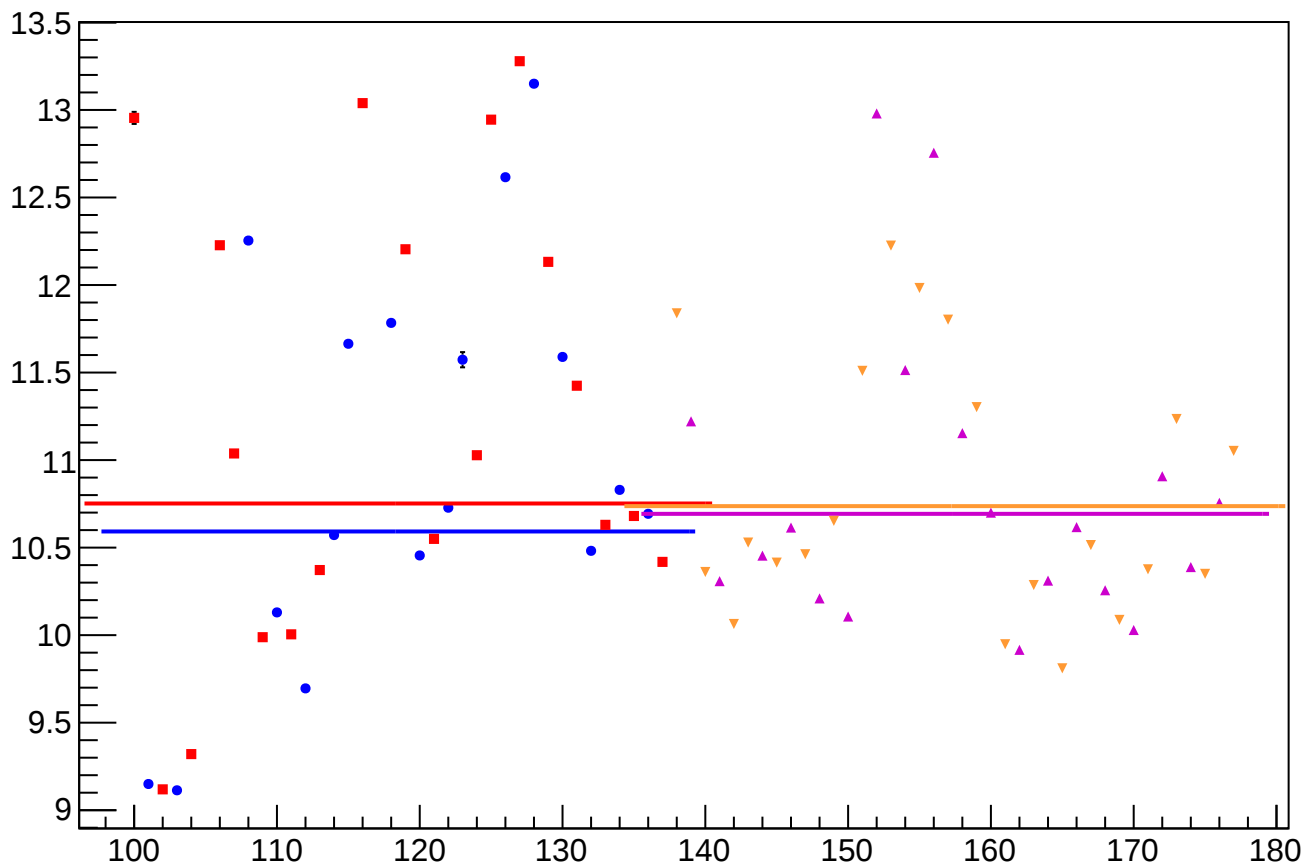
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.303 ± 2.330 χ^2/NDF : 40.8/35

Out: 3.552 ± 2.268 χ^2/NDF : 48.5/39

All: -0.755 ± 1.625 χ^2/NDF : 96.7/75

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: 10.737 $\pm$ 0.002 χ^2 /NDF:123182.5/20

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.693 $\pm$ 0.002 χ^2 /NDF:139185.0/18

Left: 10.716 $\pm$ 0.001 χ^2 /NDF: 262619.3/39

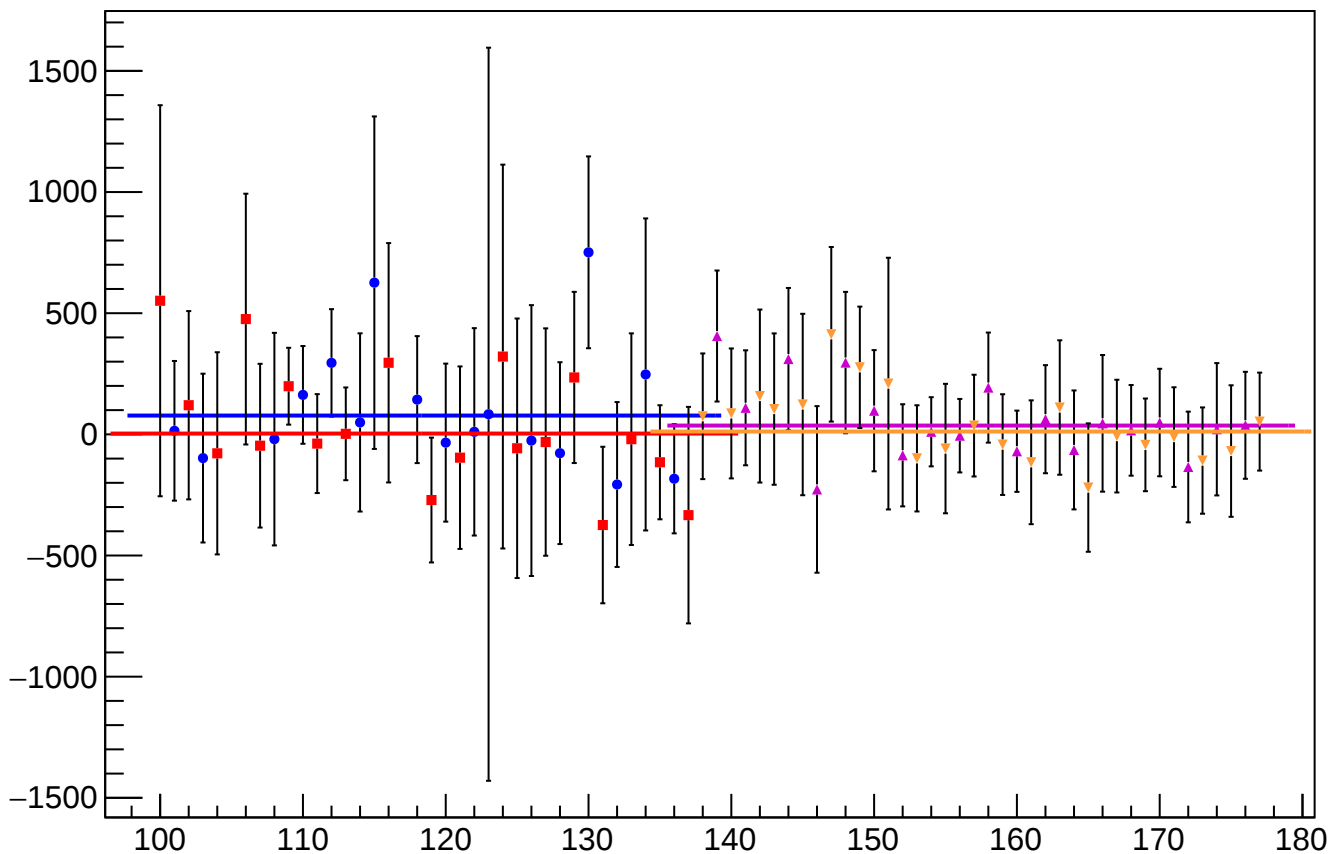
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.661 $\pm$ 0.002 χ^2 /NDF:300392.3/35

Out: 10.742 $\pm$ 0.002 χ^2 /NDF:300096.7/39

All: 10.702 $\pm$ 0.001 χ^2 /NDF: 601720.7/75

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 77.589+/-79.751 χ^2/NDF : 7.6/16

Left Out: 11.678+/-54.807 χ^2/NDF :5.1/20

Right Out: 3.305+/-70.855 χ^2/NDF : 7.4/18

Left In: 36.243+/-49.966 χ^2/NDF :6.4/18

Left: 25.093+/-36.924 χ^2/NDF : 11.5/39

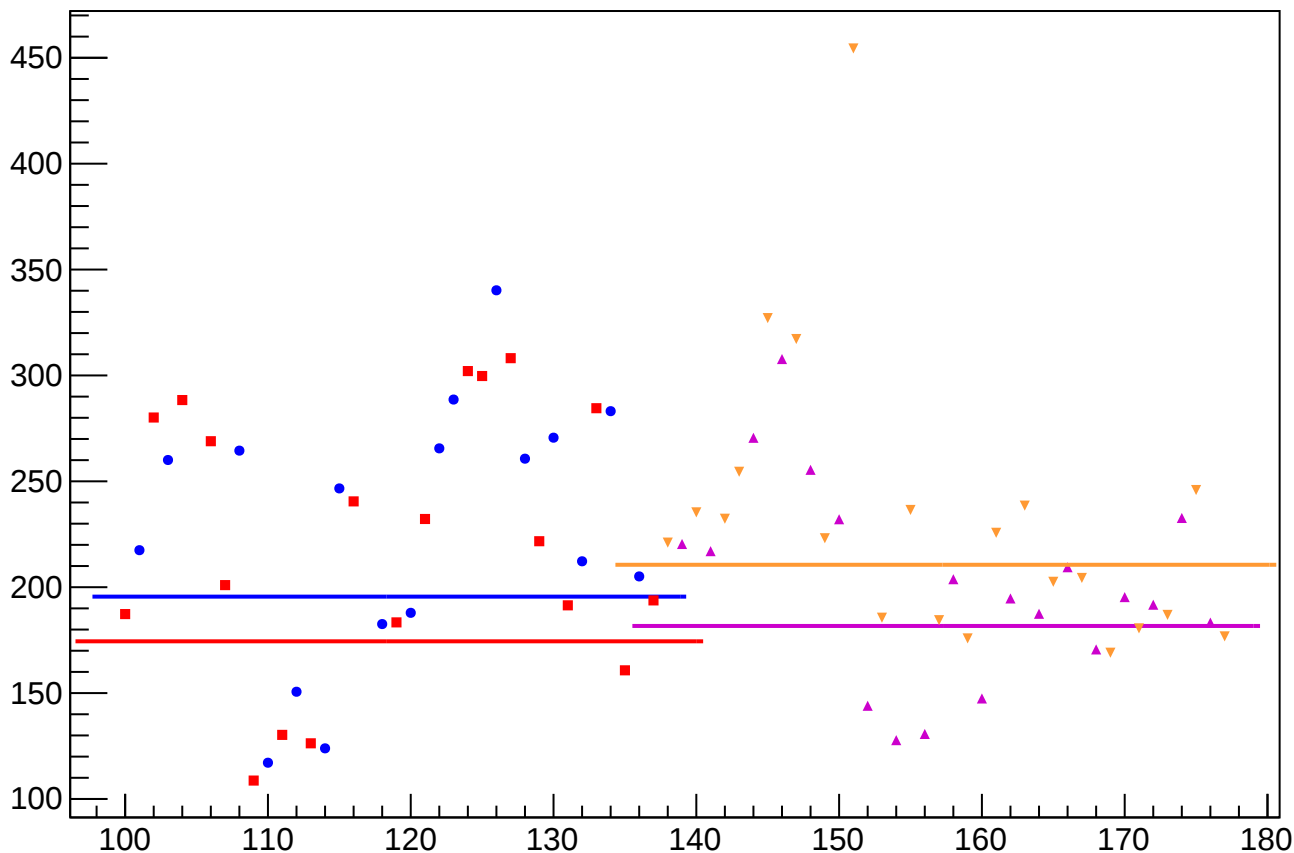
Right: 36.075+/-52.969 χ^2/NDF : 15.4/35

In: 47.898+/-42.342 χ^2/NDF :14.1/35

Out: 8.544+/-43.351 χ^2/NDF :12.4/39

All: 28.685+/-30.291 χ^2/NDF : 27.0/75

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551 $\pm$ 0.056 χ^2 /NDF: 979937.7/16

Left Out: 210.591 $\pm$ 0.039 χ^2 /NDF:1294191.5/20

Right Out: 174.449 $\pm$ 0.050 χ^2 /NDF: 1528629.1/18

Left In: 181.701 $\pm$ 0.035 χ^2 /NDF:1539988.8/18

Left: 194.814 $\pm$ 0.026 χ^2 /NDF: 3137654.7/39

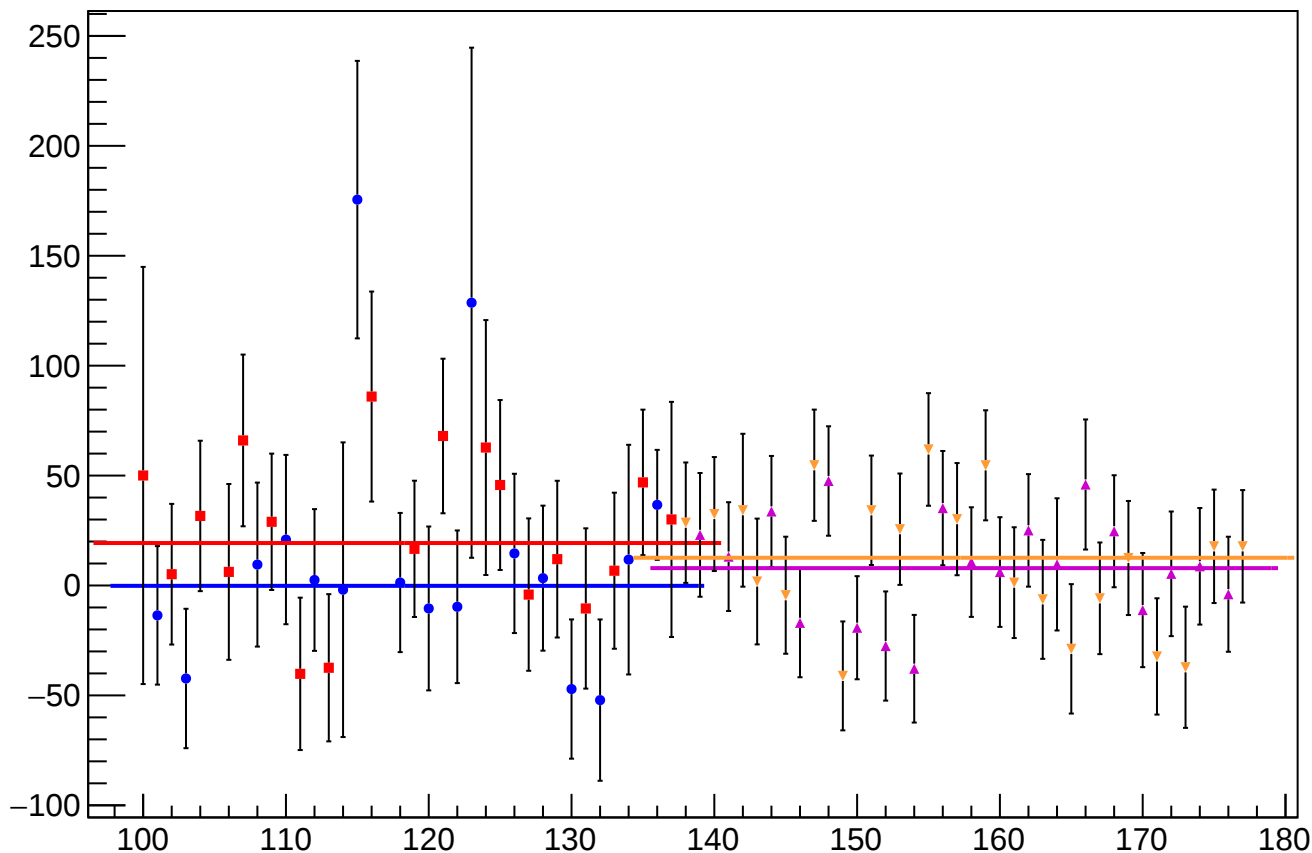
Right: 183.758 $\pm$ 0.037 χ^2 /NDF: 2586820.6/35

In: 185.605 $\pm$ 0.030 χ^2 /NDF:2563243.0/35

Out: 197.061 $\pm$ 0.031 χ^2 /NDF:3148386.7/39

All: 191.198 $\pm$ 0.021 χ^2 /NDF: 5783111.5/75

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: 12.610 ± 5.754 $\chi^2/\text{NDF}: 26.8/20$

Right Out: 19.316 ± 8.554 $\chi^2/\text{NDF}: 14.8/18$

Left In: 7.894 ± 5.930 $\chi^2/\text{NDF}: 16.2/18$

Left: 10.323 ± 4.130 $\chi^2/\text{NDF}: 43.3/39$

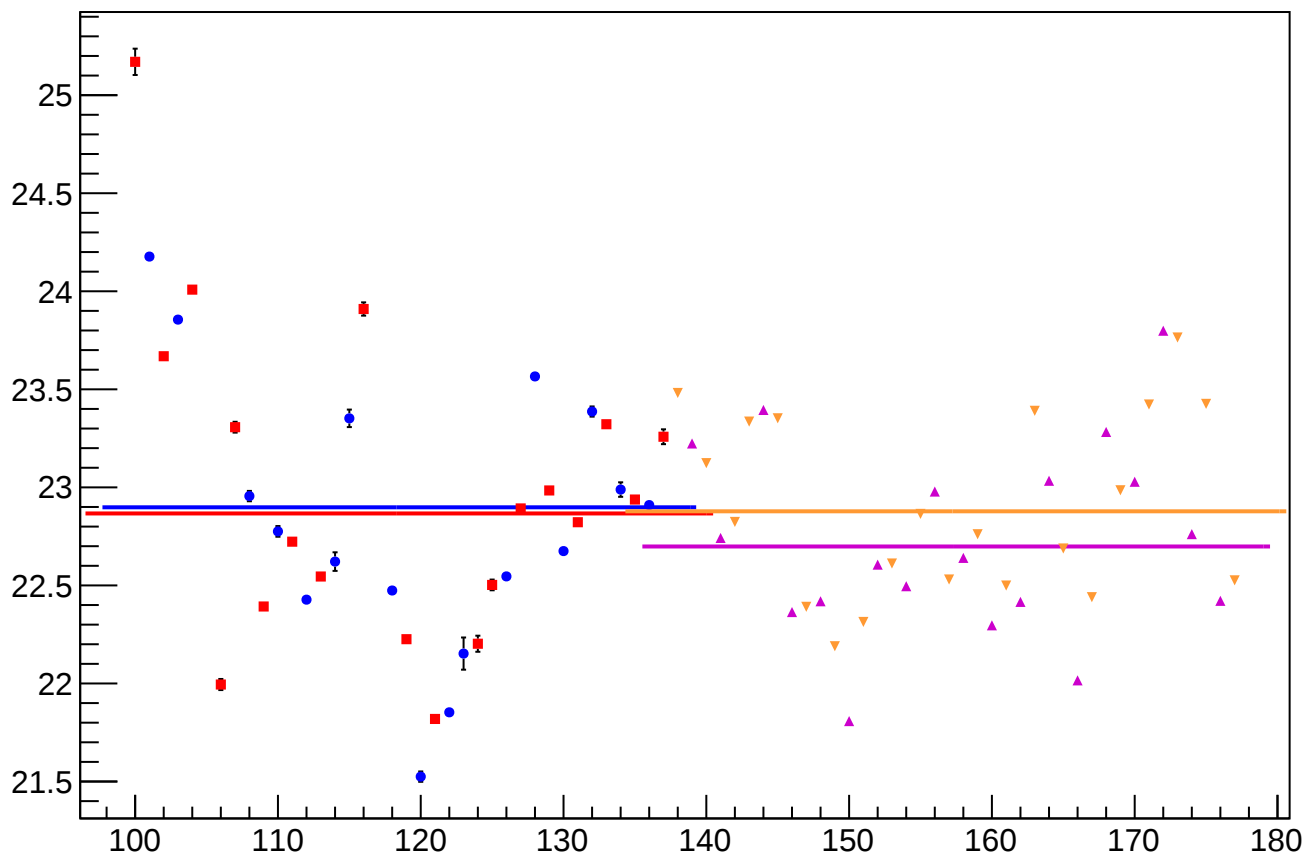
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 5.389 ± 4.922 $\chi^2/\text{NDF}: 34.8/35$

Out: 14.699 ± 4.774 $\chi^2/\text{NDF}: 42.0/39$

All: 10.186 ± 3.427 $\chi^2/\text{NDF}: 78.7/75$

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: 22.878 $\pm$ 0.004 χ^2 /NDF:12324.1/20

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.699 $\pm$ 0.004 χ^2 /NDF:12829.0/18

Left: 22.791 $\pm$ 0.003 χ^2 /NDF: 26095.6/39

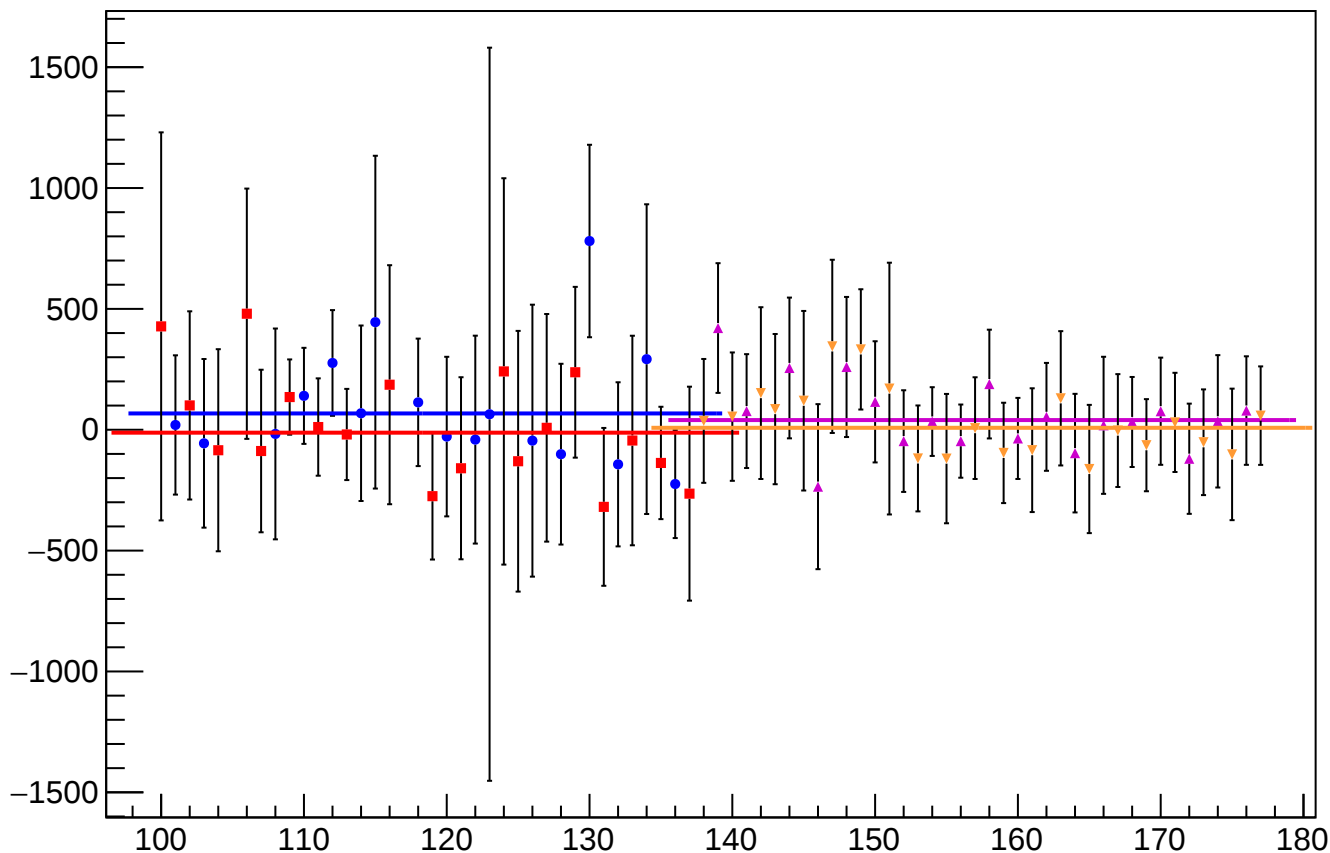
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.761 $\pm$ 0.003 χ^2 /NDF:25678.4/35

Out: 22.875 $\pm$ 0.003 χ^2 /NDF:23374.8/39

All: 22.819 $\pm$ 0.002 χ^2 /NDF: 49604.2/75

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: 8.059 $\pm$ 54.738 χ^2 /NDF:5.0/20

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 40.016 $\pm$ 49.885 χ^2 /NDF:5.9/18

Left: 25.517 $\pm$ 36.870 χ^2 /NDF: 11.2/39

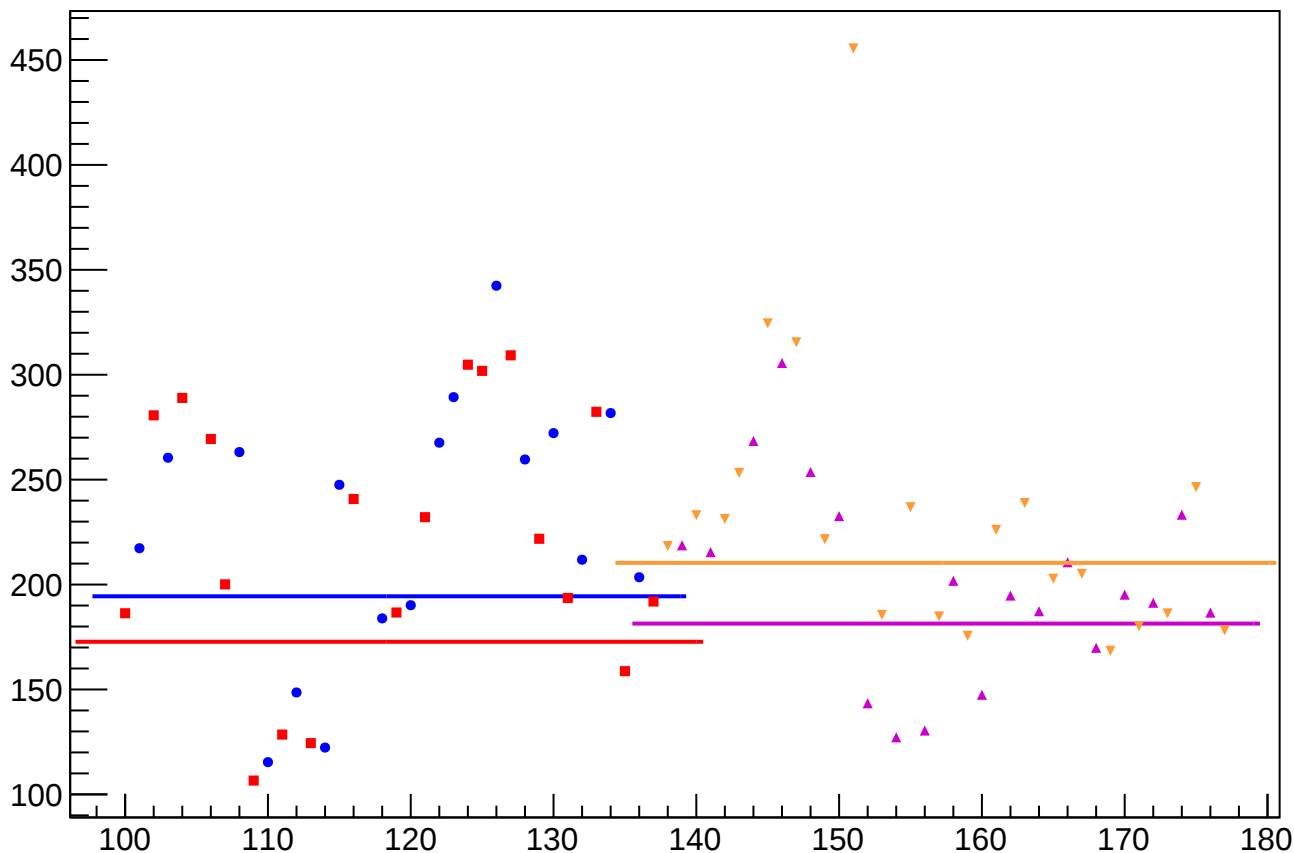
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 47.779 $\pm$ 42.241 χ^2 /NDF:13.4/35

Out: 0.451 $\pm$ 43.202 χ^2 /NDF:10.8/39

All: 24.648 $\pm$ 30.203 χ^2 /NDF: 24.9/75

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: 210.344 ± 0.039 χ^2/NDF : 1281163.4/20

Right Out: 172.730 ± 0.050 χ^2/NDF : 1596758.0/18

Left In: 181.400 ± 0.035 χ^2/NDF : 1533999.7/18

Left: 194.532 ± 0.026 χ^2/NDF : 3120647.8/39

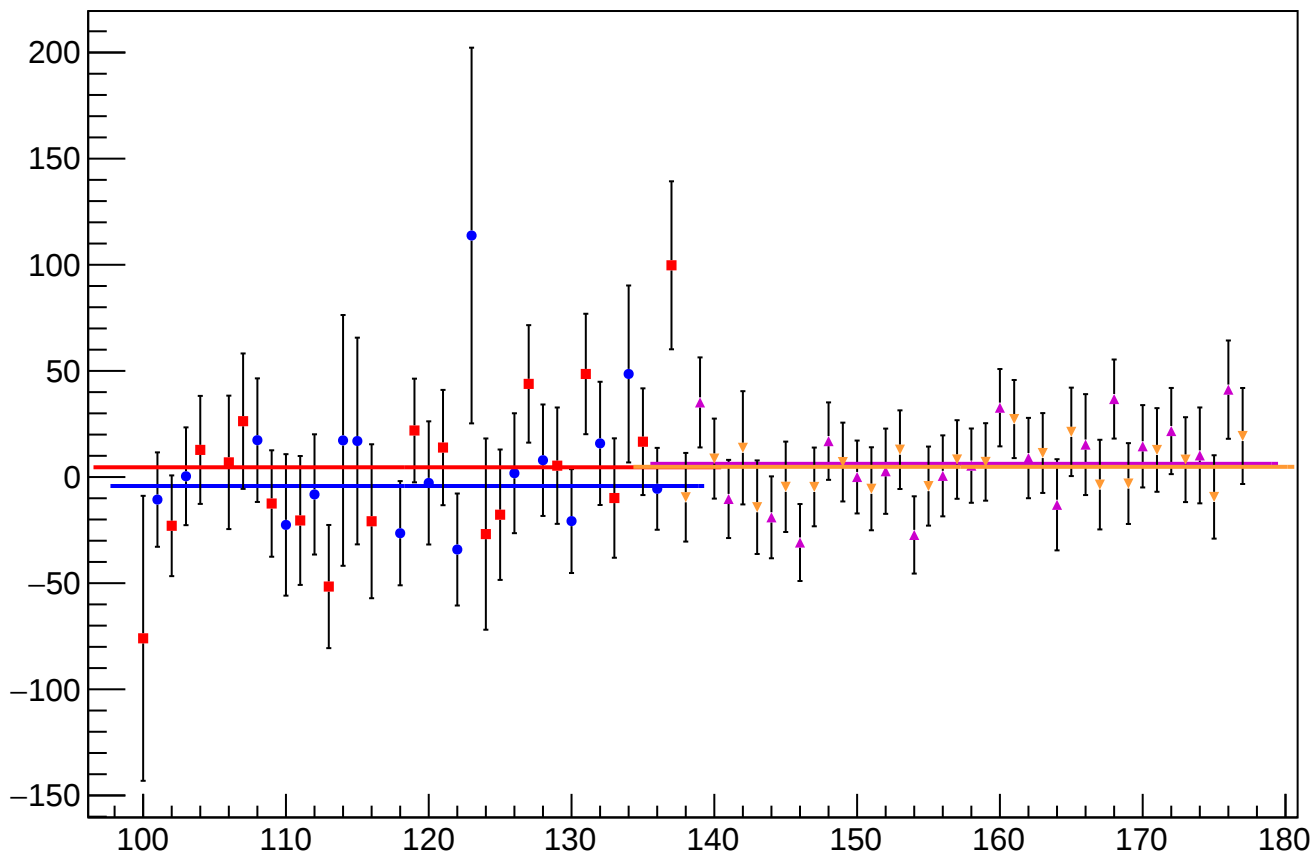
Right: 182.265 ± 0.037 χ^2/NDF : 2700196.8/35

In: 185.082 ± 0.030 χ^2/NDF : 2592414.2/35

Out: 196.161 ± 0.031 χ^2/NDF : 3234013.4/39

All: 190.497 ± 0.021 χ^2/NDF : 5893672.8/75

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223+/-6.871 χ^2/NDF : 8.0/16

Left Out: 4.811+/-4.318 χ^2/NDF : 6.3/20

Right Out: 4.599+/-6.725 χ^2/NDF : 21.1/18

Left In: 6.224+/-4.457 χ^2/NDF : 21.4/18

Left: 5.495+/-3.101 χ^2/NDF : 27.7/39

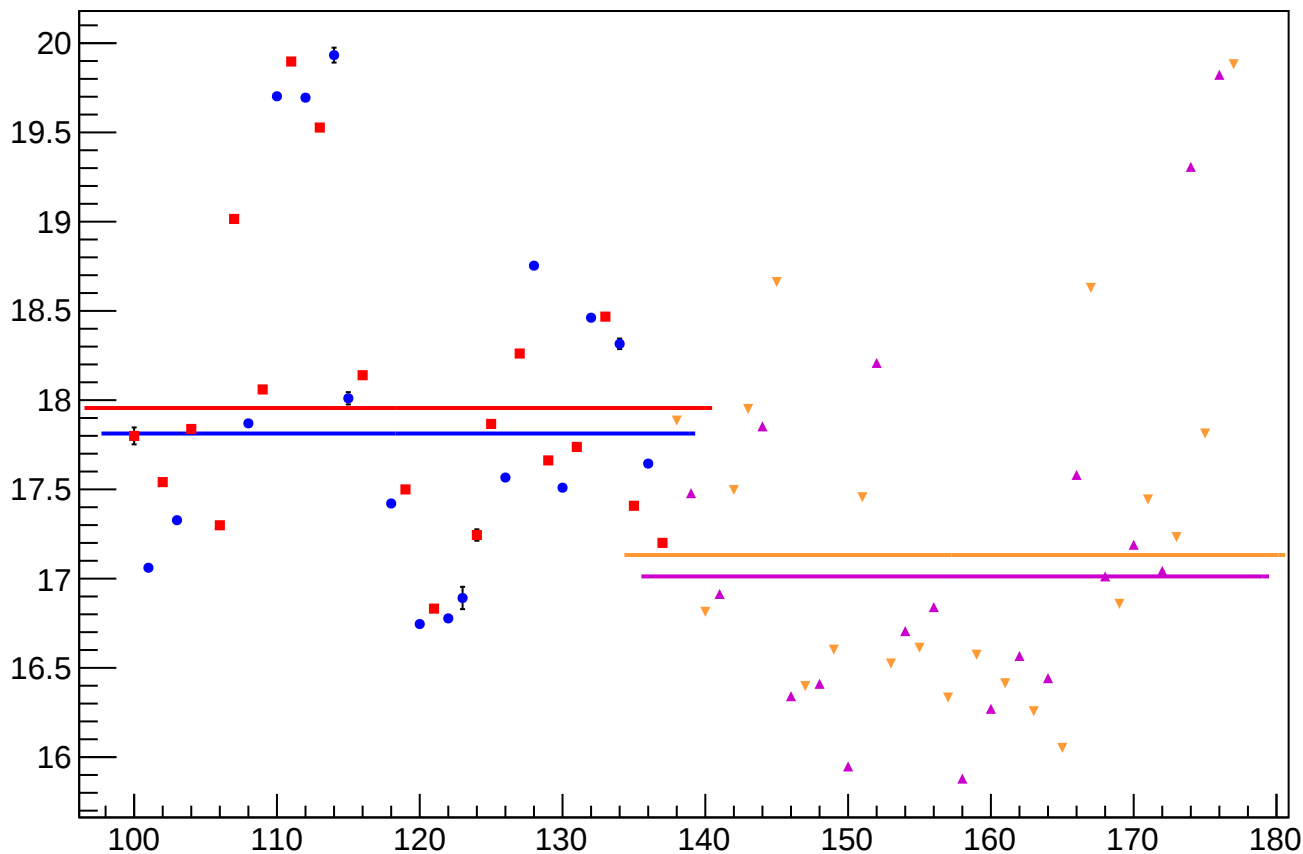
Right: 0.283+/-4.806 χ^2/NDF : 29.9/35

In: 3.130+/-3.739 χ^2/NDF : 31.0/35

Out: 4.749+/-3.634 χ^2/NDF : 27.4/39

All: 3.963+/-2.606 χ^2/NDF : 58.5/75

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: 17.132 $\pm$ 0.003 χ^2 /NDF: 86980.8/20

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 17.012 $\pm$ 0.003 χ^2 /NDF: 90886.5/18

Left: 17.074 $\pm$ 0.002 χ^2 /NDF: 178615.0/39

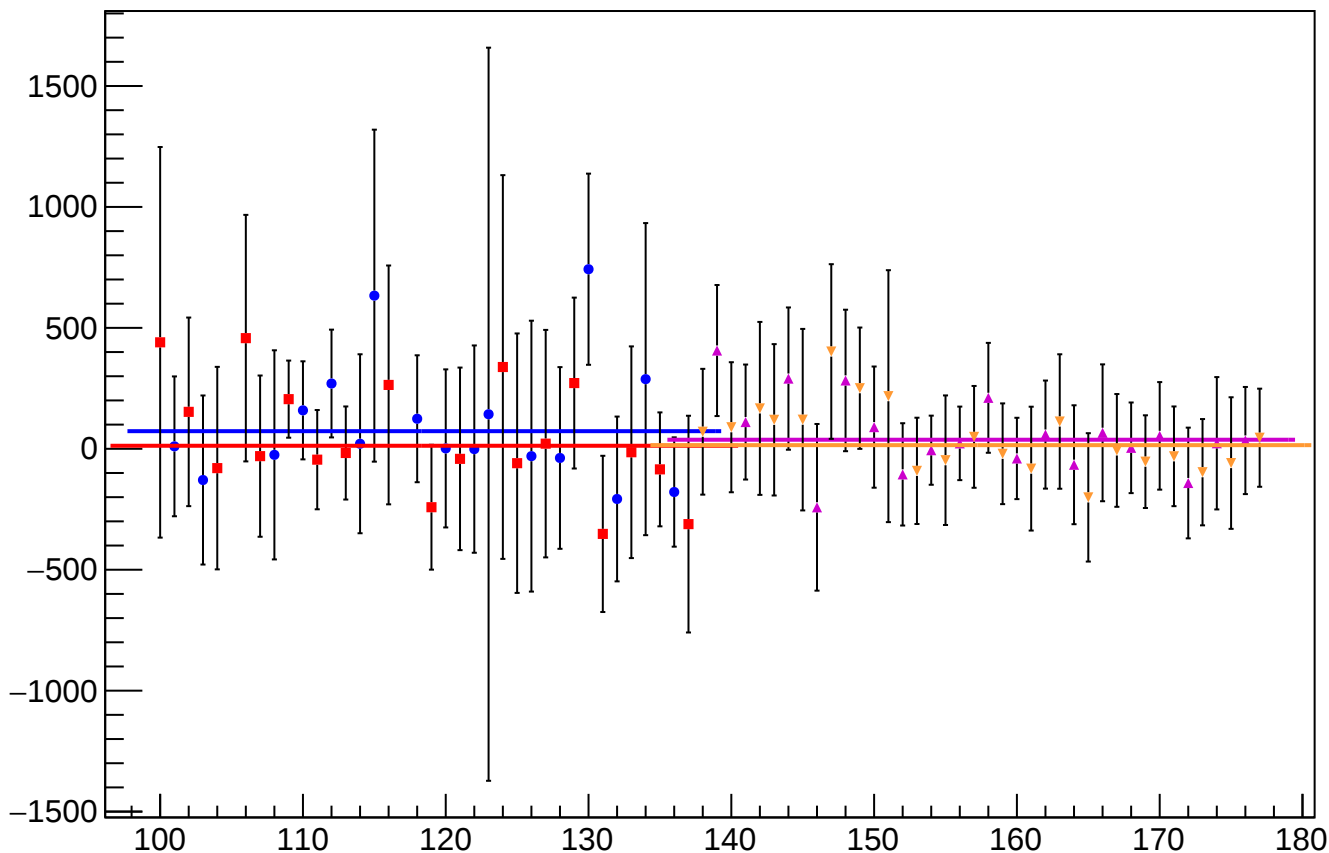
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.249 $\pm$ 0.003 χ^2 /NDF: 142031.7/35

Out: 17.373 $\pm$ 0.003 χ^2 /NDF: 133664.3/39

All: 17.313 $\pm$ 0.002 χ^2 /NDF: 276815.4/75

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: 15.061+/-54.933 χ^2/NDF : 4.5/20

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 37.490+/-50.070 χ^2/NDF : 6.3/18

Left: 27.312+/-37.005 χ^2/NDF : 10.9/39

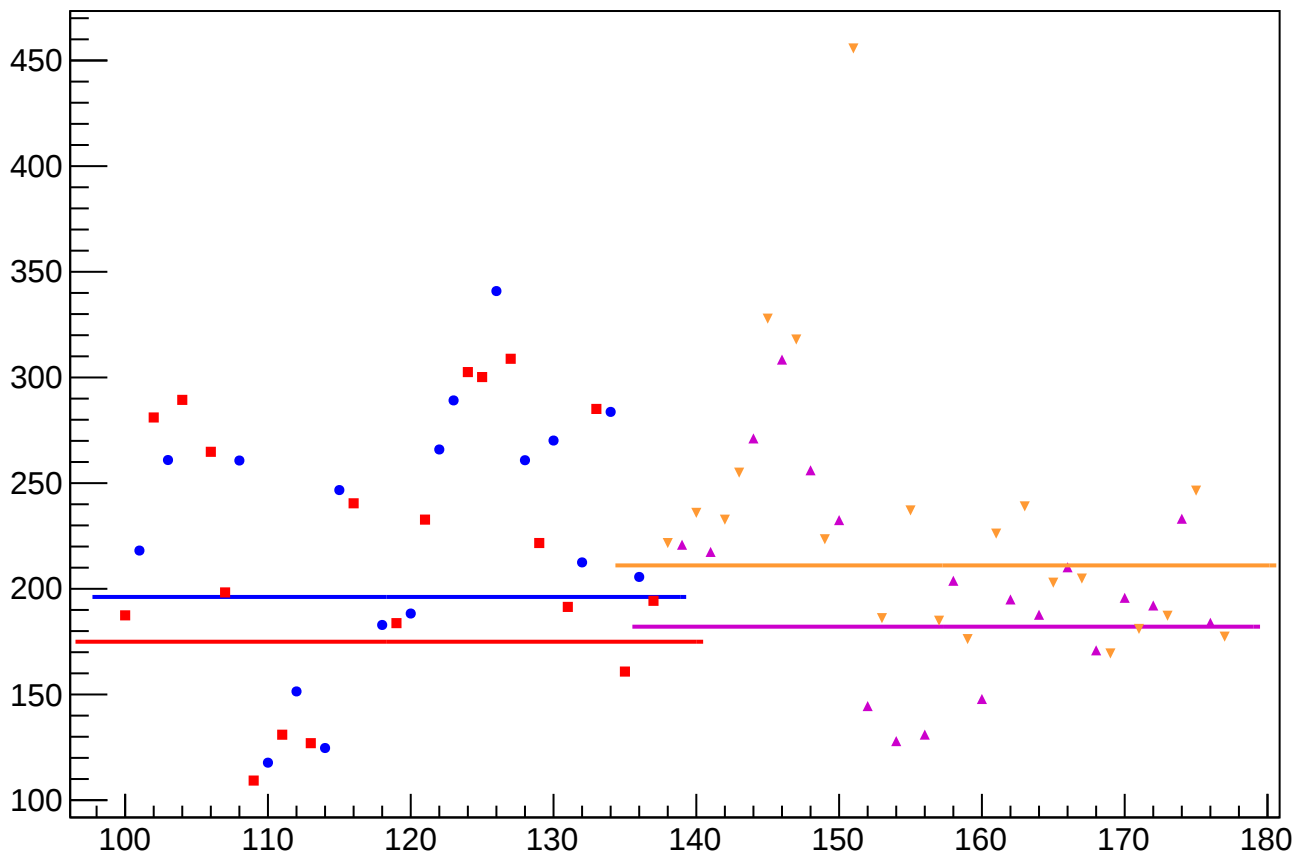
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 47.462+/-42.435 χ^2/NDF : 13.6/35

Out: 14.127+/-43.450 χ^2/NDF : 11.2/39

All: 31.188+/-30.359 χ^2/NDF : 25.2/75

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: 211.076+/-0.039 χ^2/NDF :1293656.0/20

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 182.082+/-0.035 χ^2/NDF :1539757.8/18

Left: 195.239+/-0.026 χ^2/NDF : 3137736.4/39

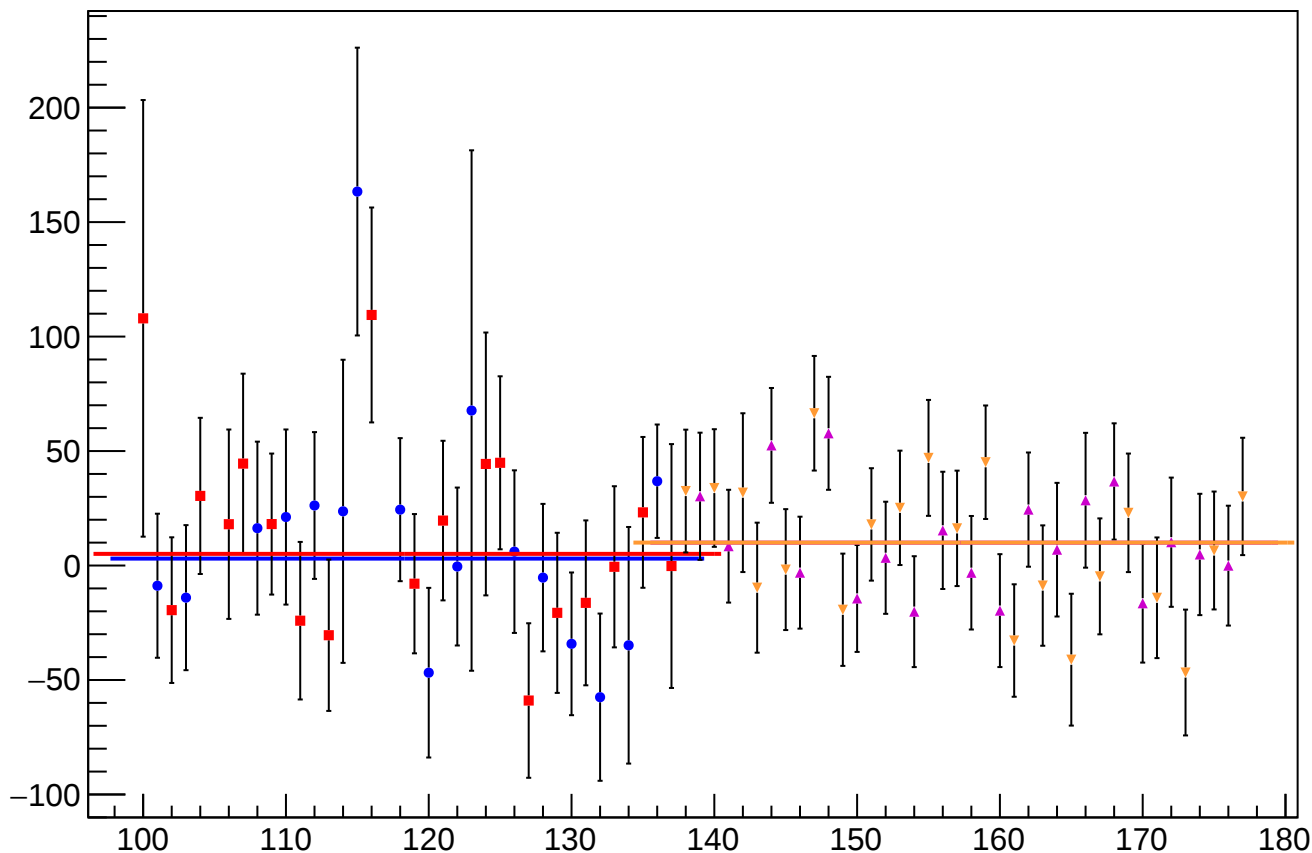
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 186.046+/-0.030 χ^2/NDF :2549240.2/35

Out: 197.557+/-0.031 χ^2/NDF :3128174.5/39

All: 191.665+/-0.021 χ^2/NDF : 5749259.8/75

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: 10.016 ± 5.693 $\chi^2/\text{NDF}: 26.9/20$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 9.987 ± 5.876 $\chi^2/\text{NDF}: 15.0/18$

Left: 10.002 ± 4.089 $\chi^2/\text{NDF}: 41.9/39$

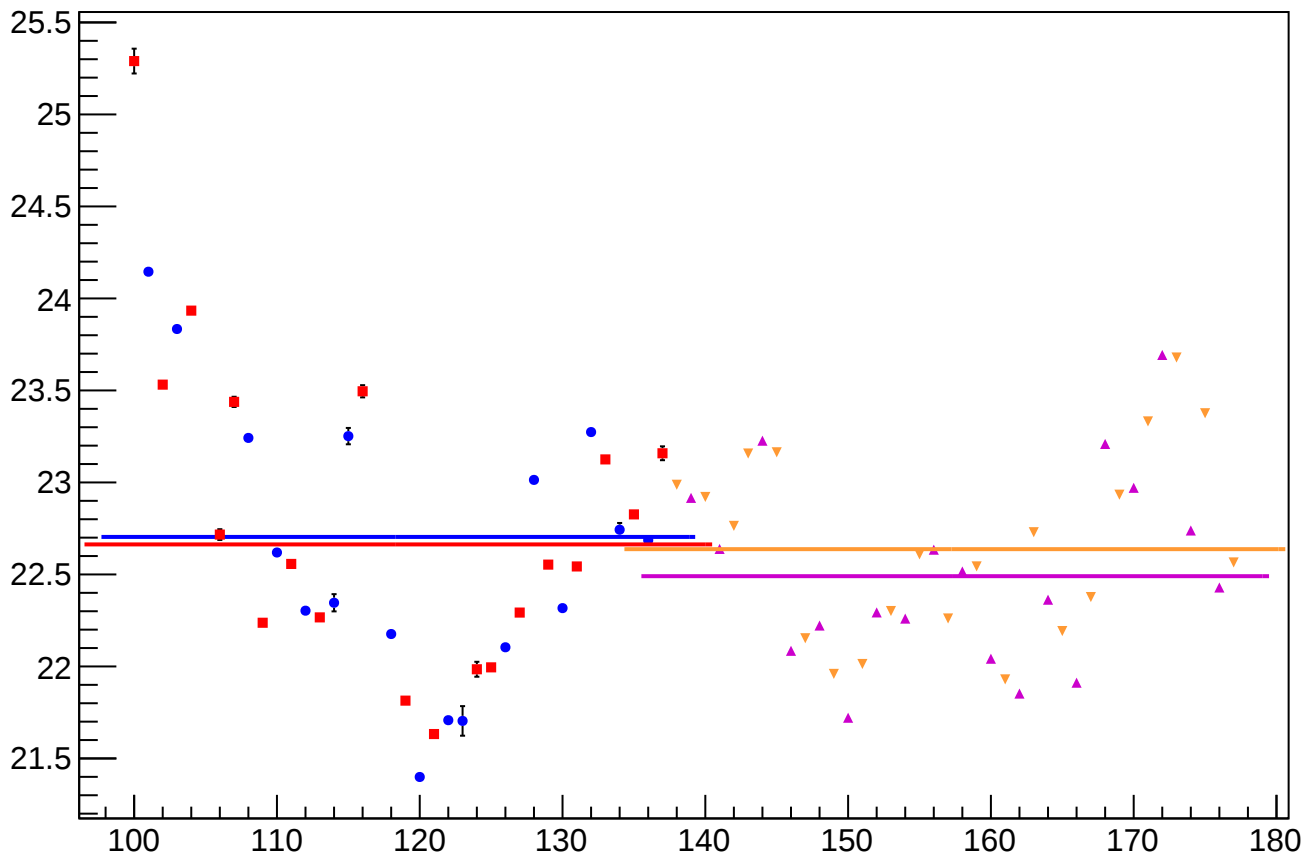
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 7.823 ± 4.878 $\chi^2/\text{NDF}: 32.6/35$

Out: 8.486 ± 4.726 $\chi^2/\text{NDF}: 44.3/39$

All: 8.165 ± 3.394 $\chi^2/\text{NDF}: 76.9/75$

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: 22.637 $\pm$ 0.004 χ^2 /NDF:15045.0/20

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.491 $\pm$ 0.004 χ^2 /NDF:14485.1/18

Left: 22.566 $\pm$ 0.003 χ^2 /NDF: 30174.4/39

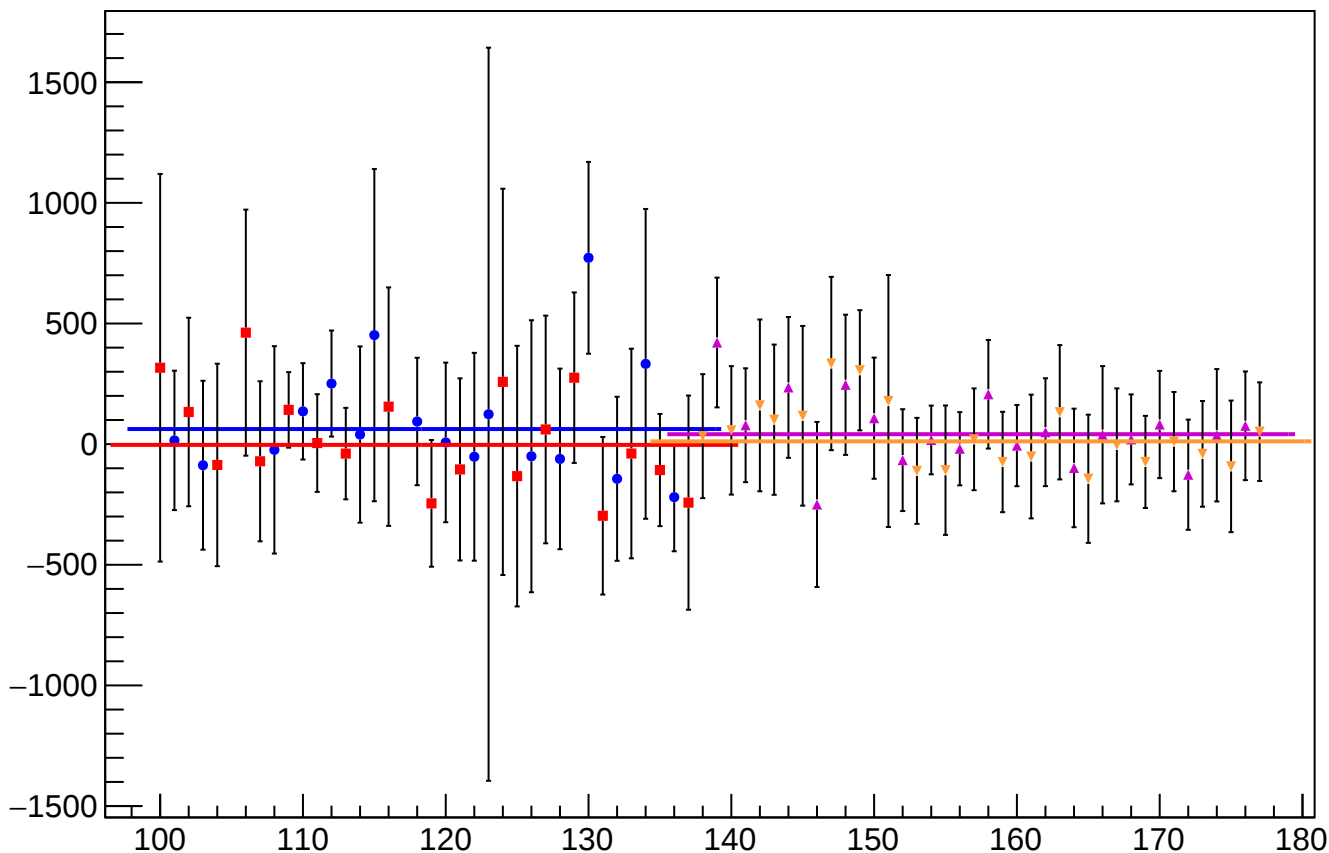
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.557 $\pm$ 0.003 χ^2 /NDF:29410.1/35

Out: 22.645 $\pm$ 0.003 χ^2 /NDF:28001.1/39

All: 22.603 $\pm$ 0.002 χ^2 /NDF: 57751.4/75

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: 11.514+/-54.864 χ^2/NDF : 4.4/20

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 41.208+/-49.989 χ^2/NDF : 5.8/18

Left: 27.738+/-36.951 χ^2/NDF : 10.3/39

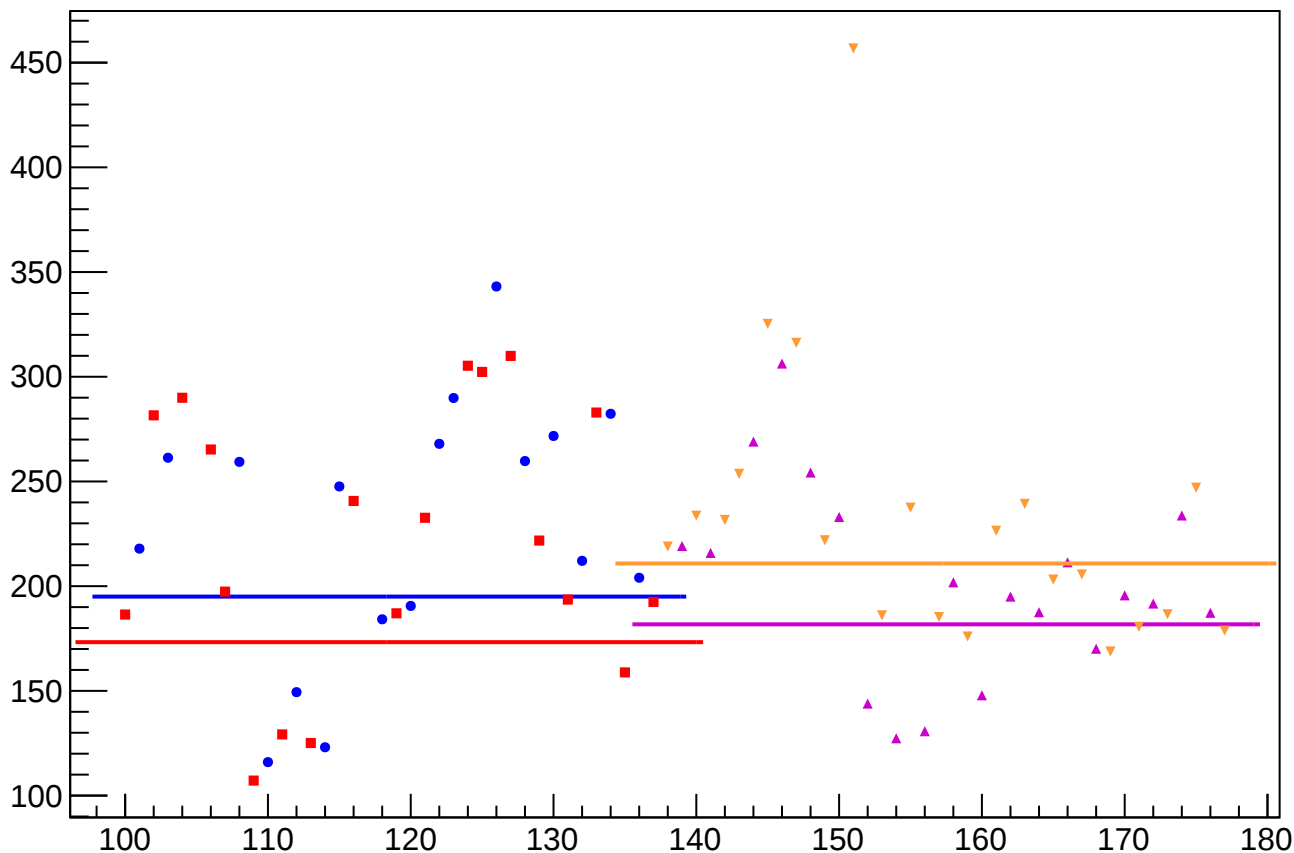
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 47.250+/-42.334 χ^2/NDF : 12.8/35

Out: 6.027+/-43.302 χ^2/NDF : 9.6/39

All: 27.104+/-30.271 χ^2/NDF : 22.9/75

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022 ± 0.056 χ^2/NDF : 1004284.9/16

Left Out: 210.829 ± 0.039 χ^2/NDF : 1280664.6/20

Right Out: 173.262 ± 0.050 χ^2/NDF : 1578202.7/18

Left In: 181.778 ± 0.035 χ^2/NDF : 1533936.8/18

Left: 194.956 ± 0.026 χ^2/NDF : 3120982.0/39

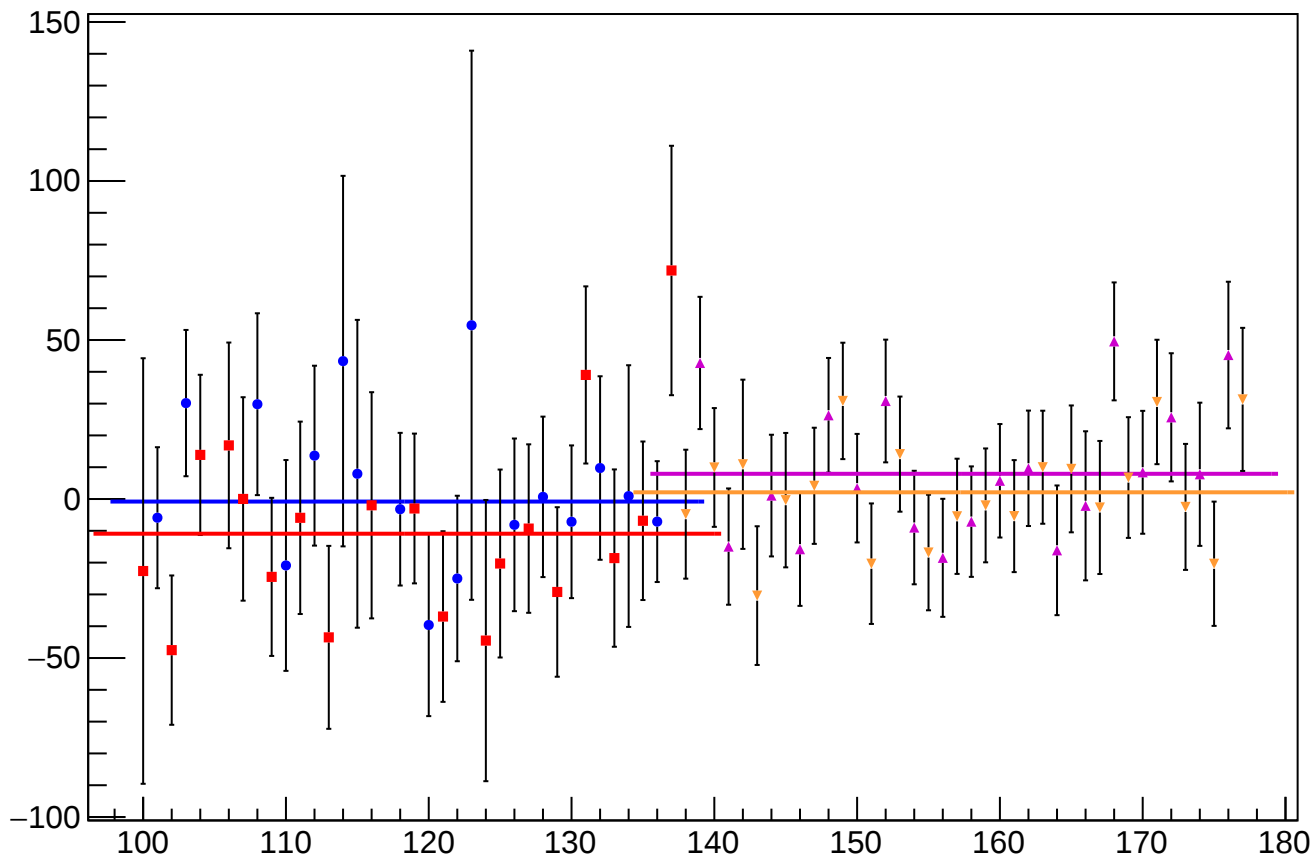
Right: 182.829 ± 0.037 χ^2/NDF : 2666222.6/35

In: 185.524 ± 0.030 χ^2/NDF : 2577920.8/35

Out: 196.663 ± 0.031 χ^2/NDF : 3212449.9/39

All: 190.968 ± 0.021 χ^2/NDF : 5858045.1/75

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: 2.108 ± 4.234 χ^2/NDF : 14.1/20

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 7.928 ± 4.383 χ^2/NDF : 22.5/18

Left: 4.917 ± 3.045 χ^2/NDF : 37.5/39

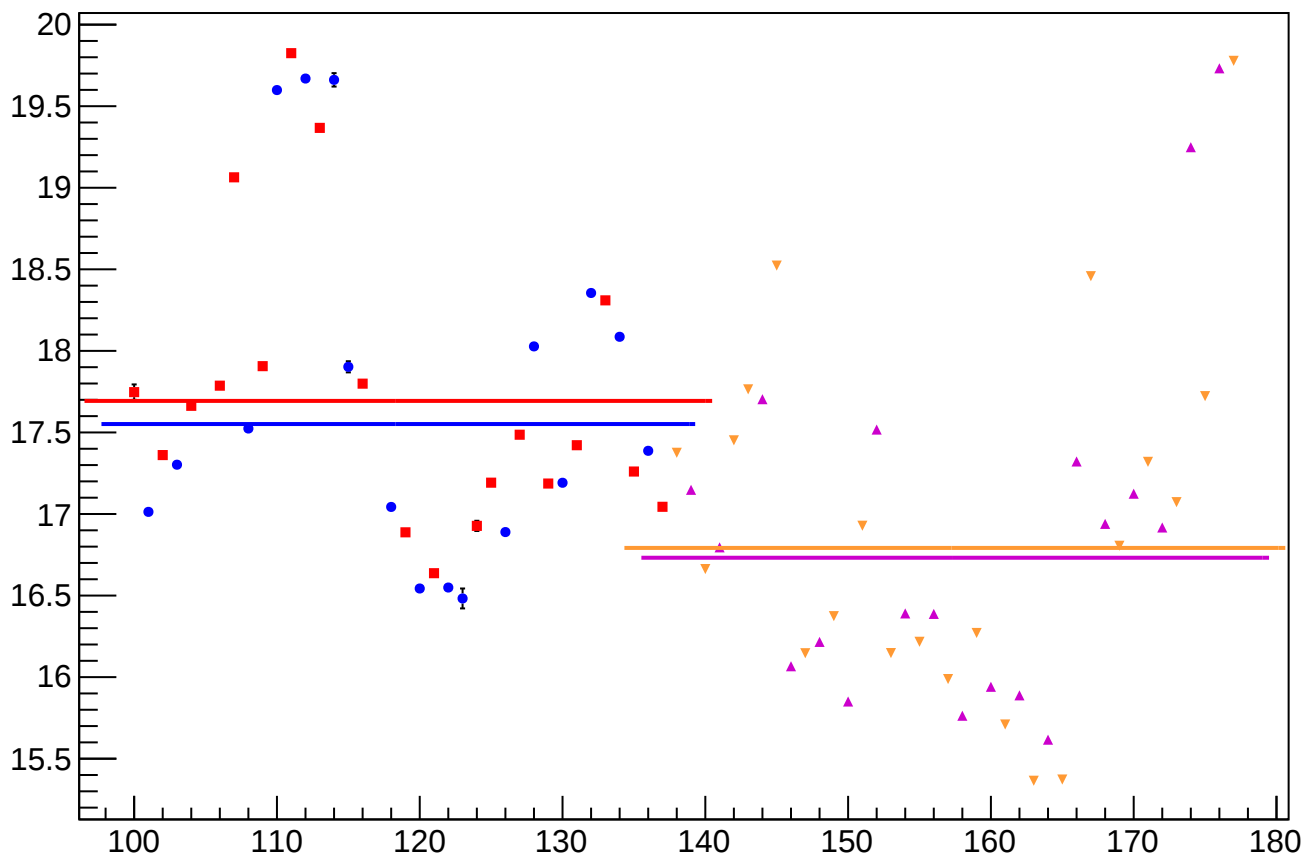
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 5.350 ± 3.679 χ^2/NDF : 31.4/35

Out: -1.666 ± 3.568 χ^2/NDF : 32.7/39

All: 1.734 ± 2.561 χ^2/NDF : 66.1/75

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: 16.792 $\pm$ 0.003 χ^2 /NDF:119083.3/20

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.732 $\pm$ 0.003 χ^2 /NDF:102330.1/18

Left: 16.763 $\pm$ 0.002 χ^2 /NDF: 221608.8/39

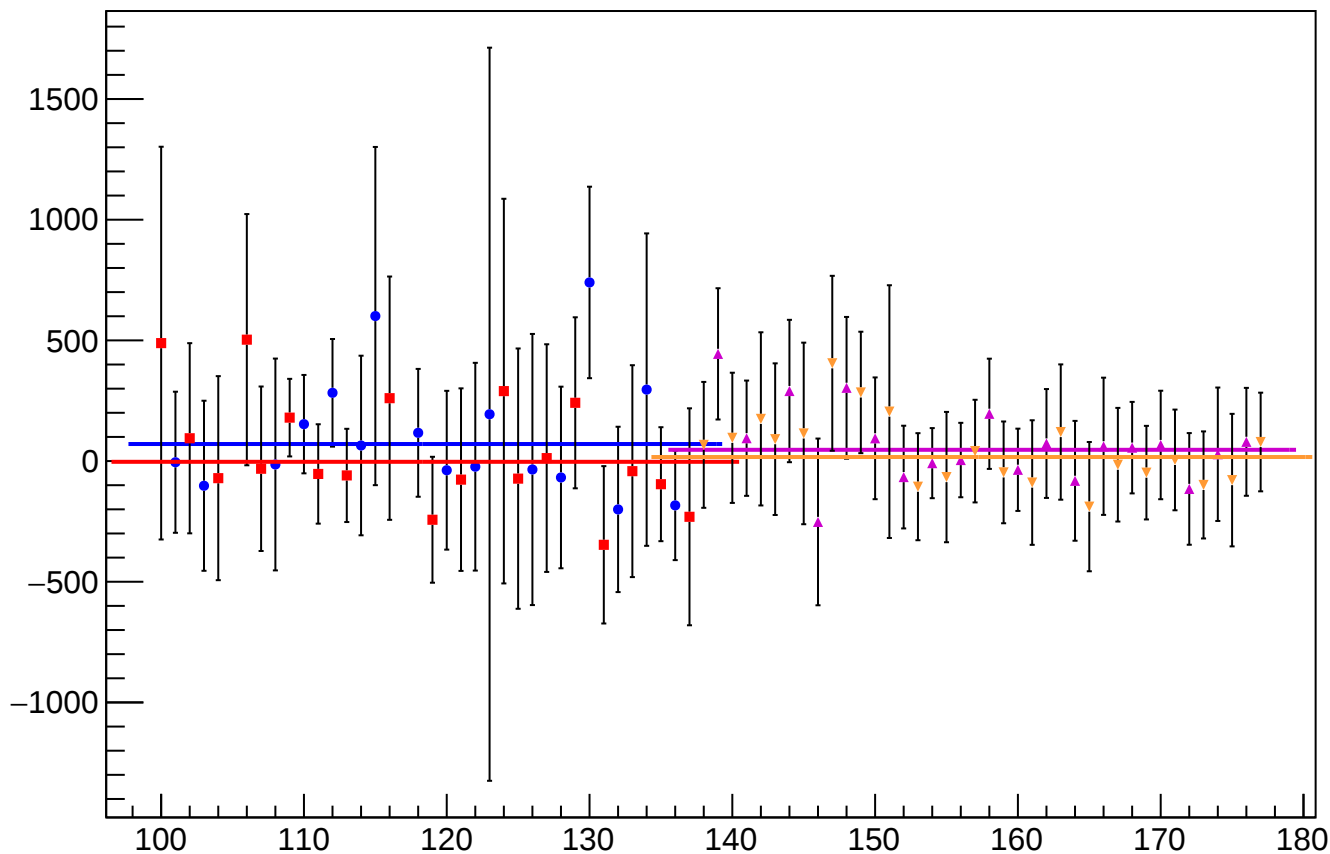
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.974 $\pm$ 0.003 χ^2 /NDF:157013.0/35

Out: 17.053 $\pm$ 0.003 χ^2 /NDF:176099.5/39

All: 17.015 $\pm$ 0.002 χ^2 /NDF: 333592.4/75

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634+/-80.409 χ^2/NDF : 7.2/16

Left Out: 16.766+/-55.384 χ^2/NDF : 4.9/20

Right Out: -3.063+/-71.508 χ^2/NDF : 6.2/18

Left In: 46.661+/-50.565 χ^2/NDF : 6.4/18

Left: 33.070+/-37.343 χ^2/NDF : 11.4/39

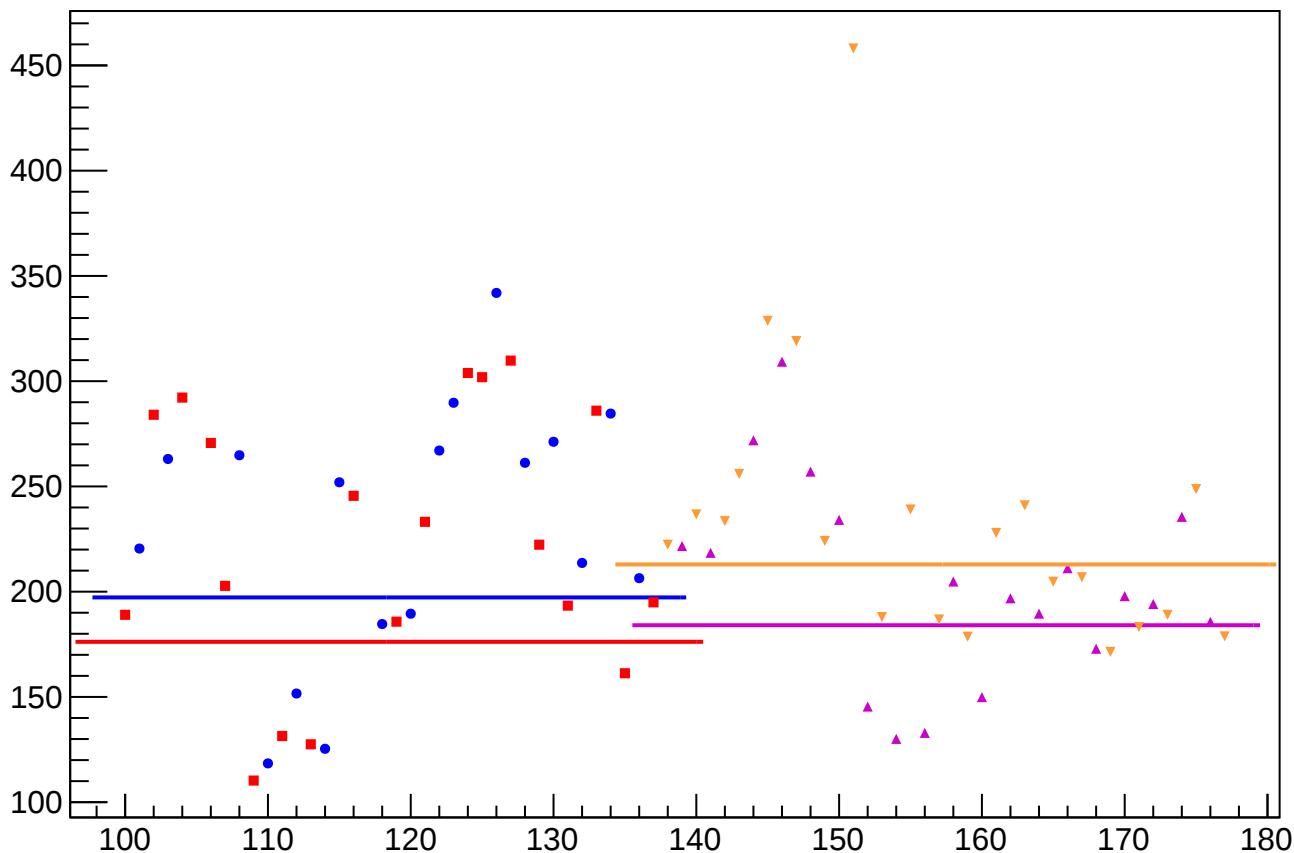
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 53.455+/-42.805 χ^2/NDF : 13.6/35

Out: 9.331+/-43.786 χ^2/NDF : 11.1/39

All: 31.893+/-30.609 χ^2/NDF : 25.3/75

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: 212.930+/-0.039 χ^2/NDF :1268181.5/20

Right Out: 176.181+/-0.051 χ^2/NDF : 1519707.5/18

Left In: 184.055+/-0.036 χ^2/NDF :1495092.1/18

Left: 197.182+/-0.026 χ^2/NDF : 3059750.3/39

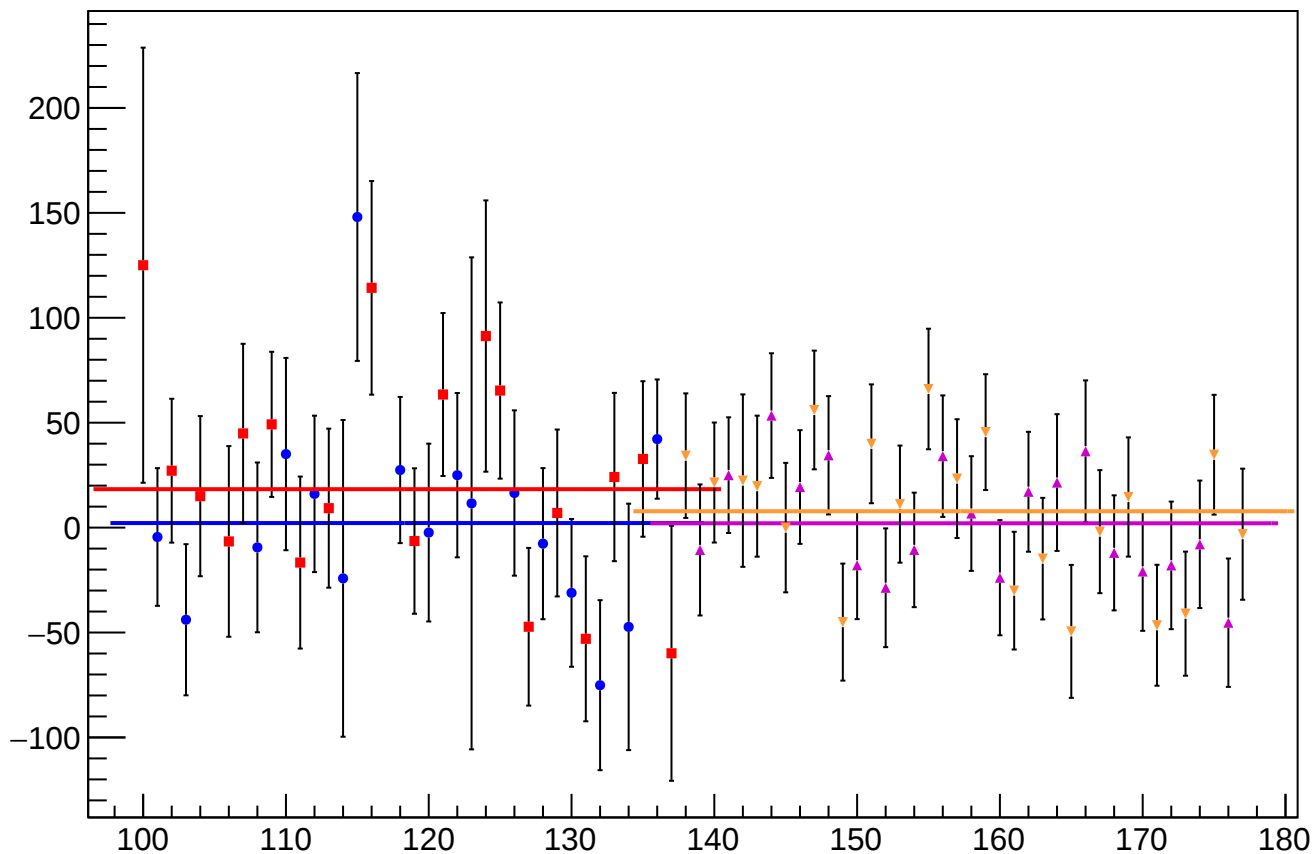
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 187.801+/-0.030 χ^2/NDF :2503358.8/35

Out: 199.151+/-0.031 χ^2/NDF :3118053.7/39

All: 193.347+/-0.022 χ^2/NDF : 5690126.6/75

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178+/-9.825 χ^2/NDF : 15.4/16

Left Out: 7.792+/-6.430 χ^2/NDF : 28.6/20

Right Out: 18.320+/-9.497 χ^2/NDF : 19.6/18

Left In: 2.060+/-6.605 χ^2/NDF : 15.2/18

Left: 5.003+/-4.607 χ^2/NDF : 44.2/39

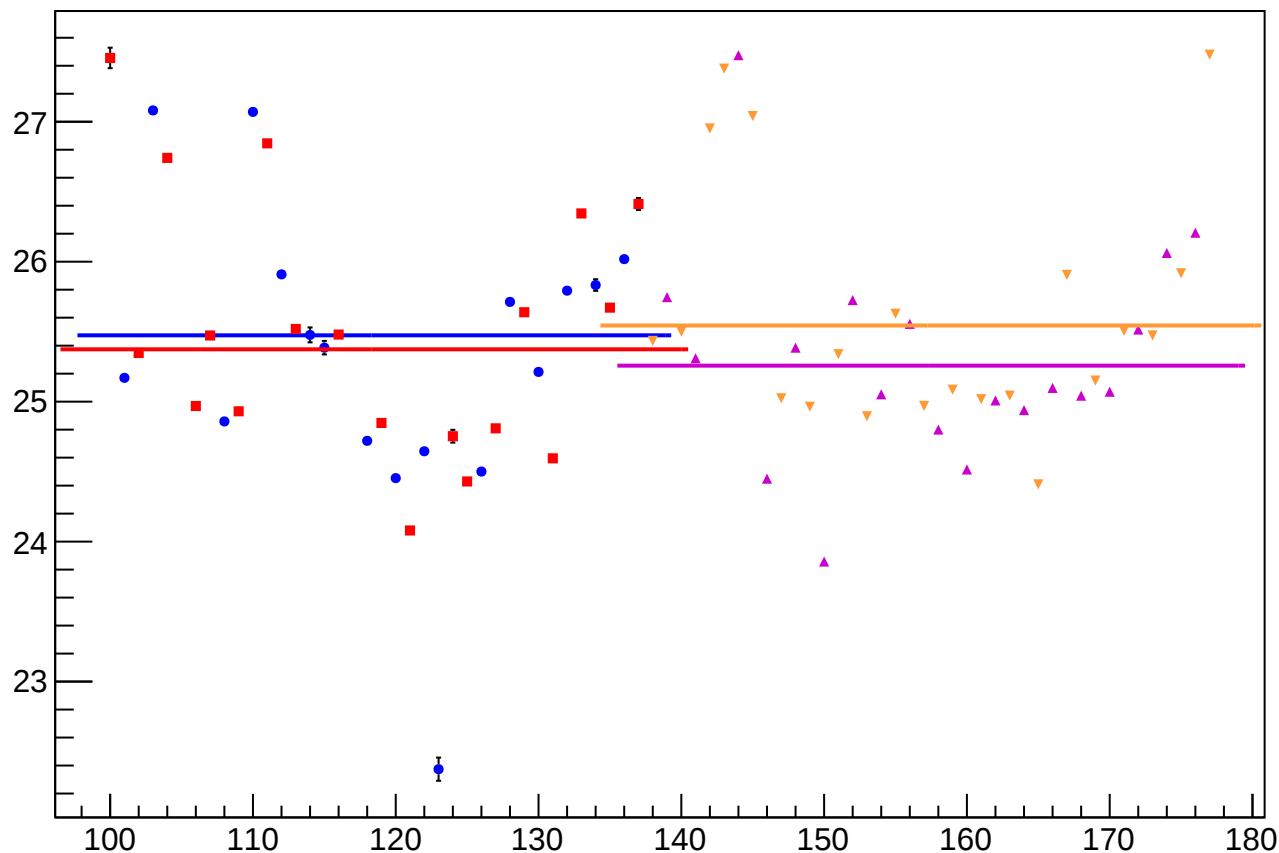
Right: 10.522+/-6.828 χ^2/NDF : 36.4/35

In: 2.097+/-5.481 χ^2/NDF : 30.6/35

Out: 11.101+/-5.325 χ^2/NDF : 49.0/39

All: 6.730+/-3.819 χ^2/NDF : 81.0/75

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.474+/-0.007 χ^2 /NDF: 14061.2/16

Left Out: 25.544+/-0.005 χ^2 /NDF:29765.5/20

Right Out: 25.374+/-0.007 χ^2 /NDF: 13581.2/18

Left In: 25.257+/-0.005 χ^2 /NDF:26387.2/18

Left: 25.405+/-0.003 χ^2 /NDF: 58090.2/39

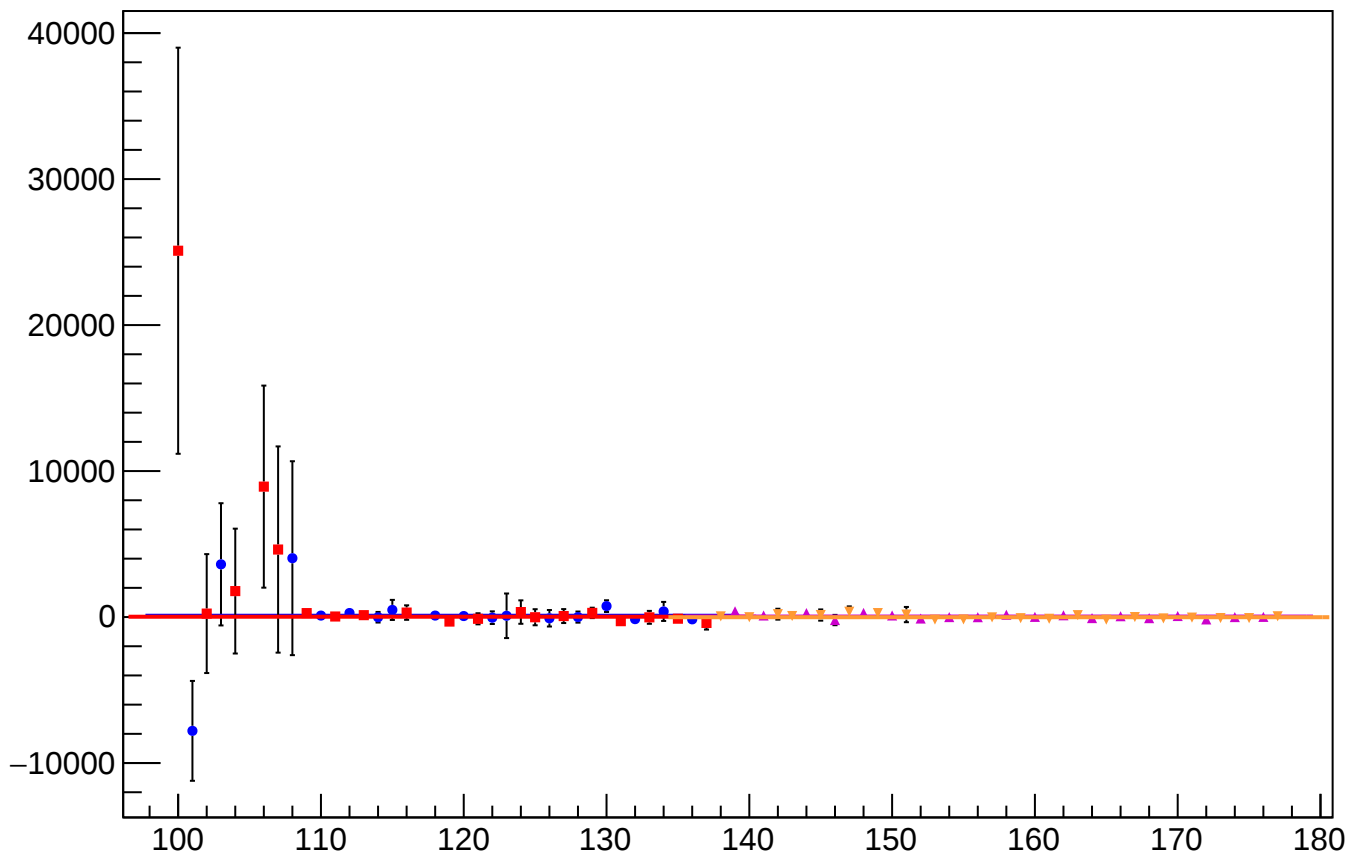
Right: 25.422+/-0.005 χ^2 /NDF: 27749.4/35

In: 25.325+/-0.004 χ^2 /NDF:41118.3/35

Out: 25.491+/-0.004 χ^2 /NDF:43787.1/39

All: 25.410+/-0.003 χ^2 /NDF: 85848.9/75

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: -11.059+/-55.442 χ^2/NDF : 5.1/20

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 34.636+/-51.015 χ^2/NDF : 6.1/18

Left: 13.686+/-37.541 χ^2/NDF : 11.5/39

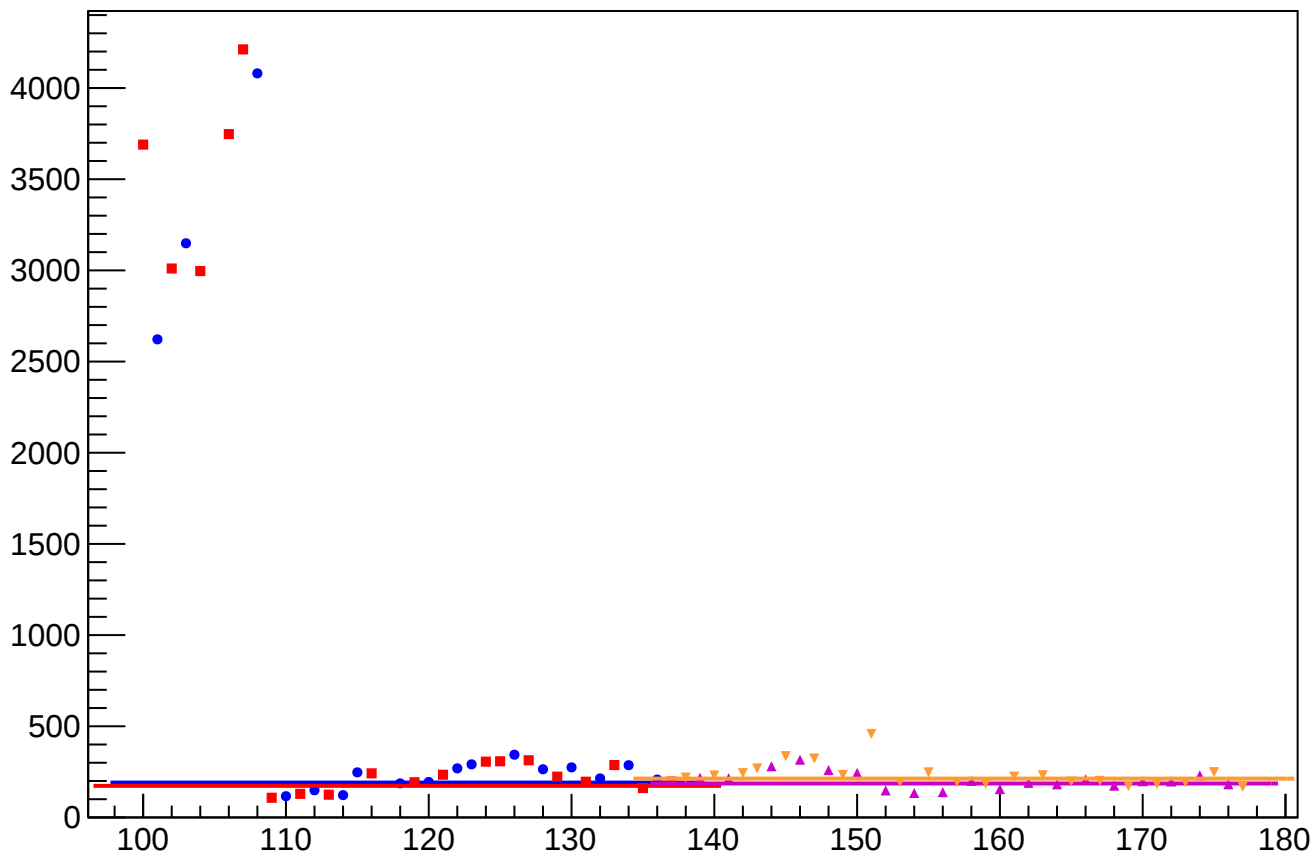
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 48.554+/-44.088 χ^2/NDF : 18.7/35

Out: -0.298+/-45.734 χ^2/NDF : 17.1/39

All: 25.022+/-31.741 χ^2/NDF : 36.3/75

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: 213.044+/-0.039 χ^2/NDF :1323339.8/20

Right Out: 173.269+/-0.057 χ^2/NDF : 4207191.5/18

Left In: 186.193+/-0.036 χ^2/NDF :1372984.4/18

Left: 198.504+/-0.027 χ^2/NDF : 2950355.3/39

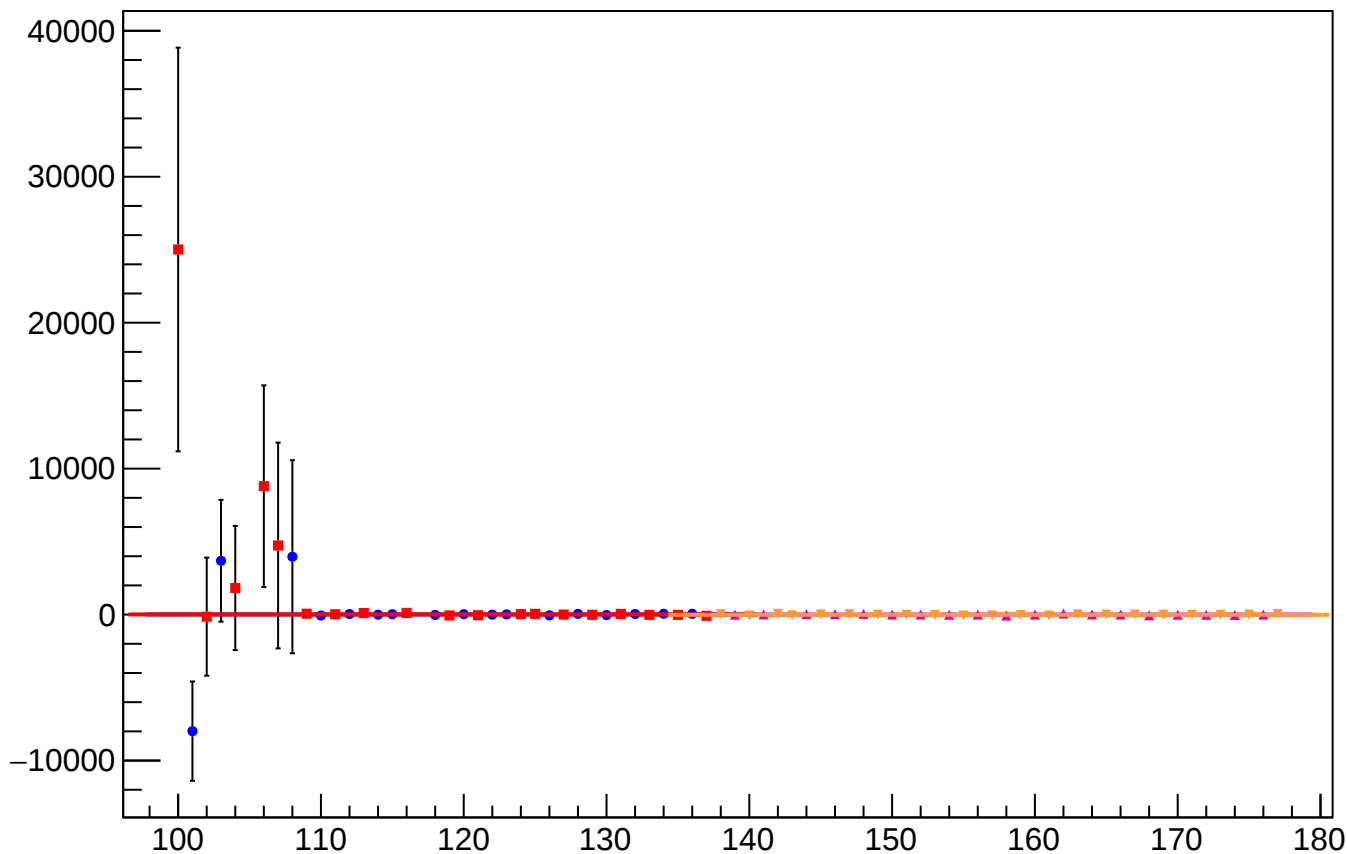
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 187.458+/-0.031 χ^2/NDF :4949588.6/35

Out: 200.334+/-0.032 χ^2/NDF :5859482.9/39

All: 193.660+/-0.022 χ^2/NDF : 10891237.9/75

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: -13.738+/-7.266 χ^2/NDF : 18.9/20

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 4.697+/-7.518 χ^2/NDF : 18.7/18

Left: -4.834+/-5.225 χ^2/NDF : 40.6/39

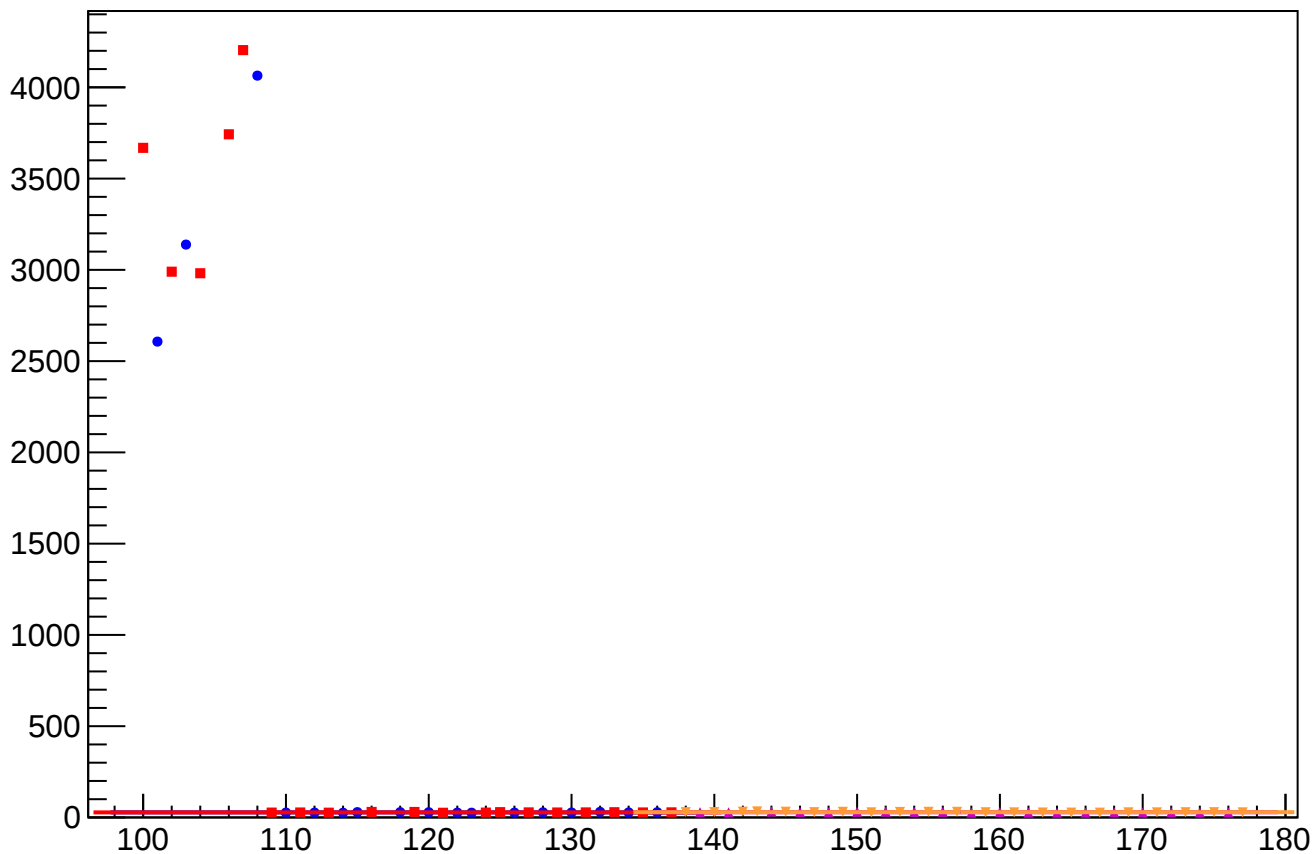
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 6.268+/-6.399 χ^2/NDF : 37.1/35

Out: -6.774+/-6.246 χ^2/NDF : 46.8/39

All: -0.410+/-4.470 χ^2/NDF : 86.0/75

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: 28.815 $\pm$ 0.005 χ^2 /NDF: 98439.0/20

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 28.678 $\pm$ 0.005 χ^2 /NDF: 116574.2/18

Left: 28.749 $\pm$ 0.004 χ^2 /NDF: 215356.5/39

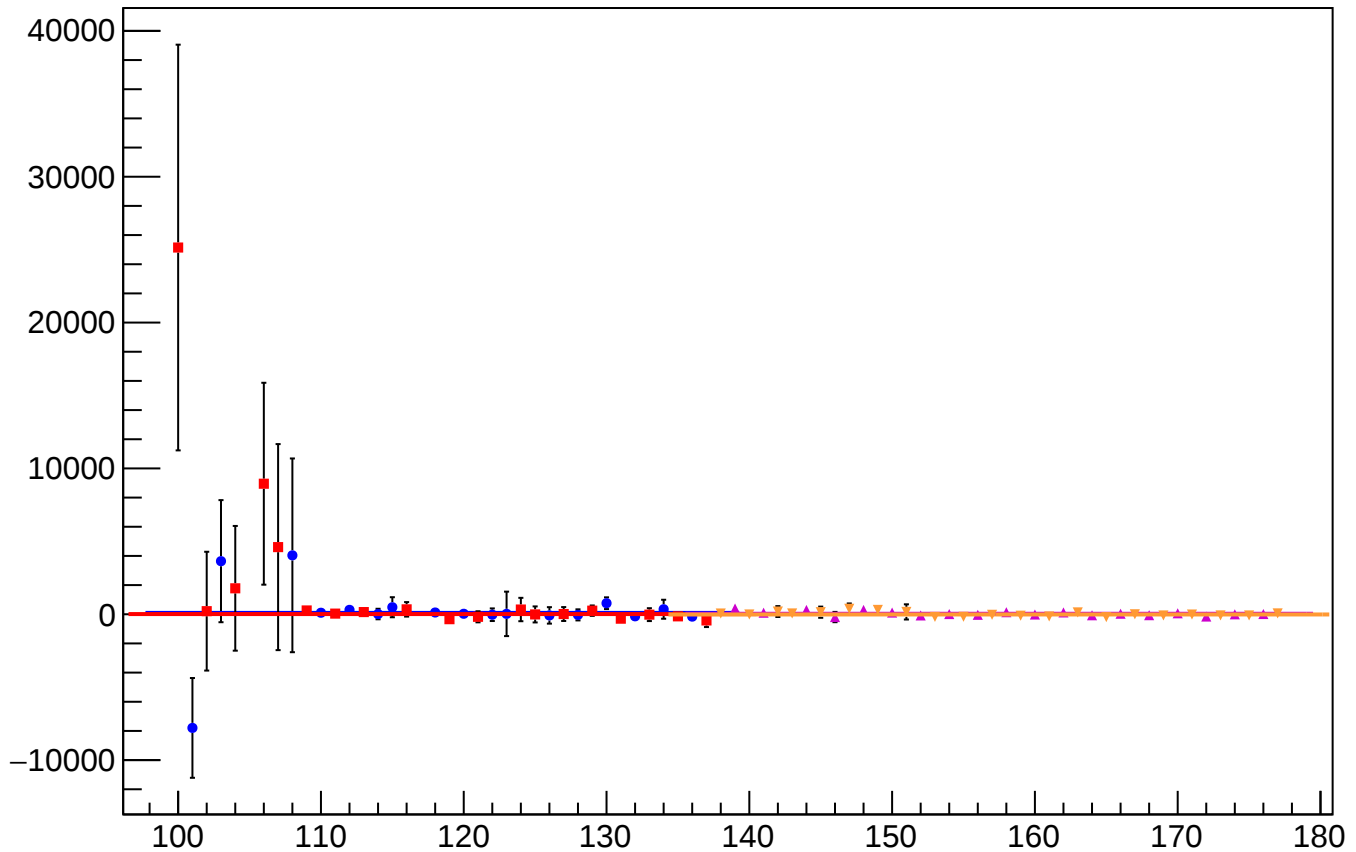
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.446 $\pm$ 0.005 χ^2 /NDF: 3150363.1/35

Out: 28.522 $\pm$ 0.004 χ^2 /NDF: 3587660.1/39

All: 28.485 $\pm$ 0.003 χ^2 /NDF: 6738168.8/75

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: -14.520+/-55.316 χ^2/NDF : 5.7/20

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 33.590+/-50.911 χ^2/NDF : 6.1/18

Left: 11.527+/-37.460 χ^2/NDF : 12.2/39

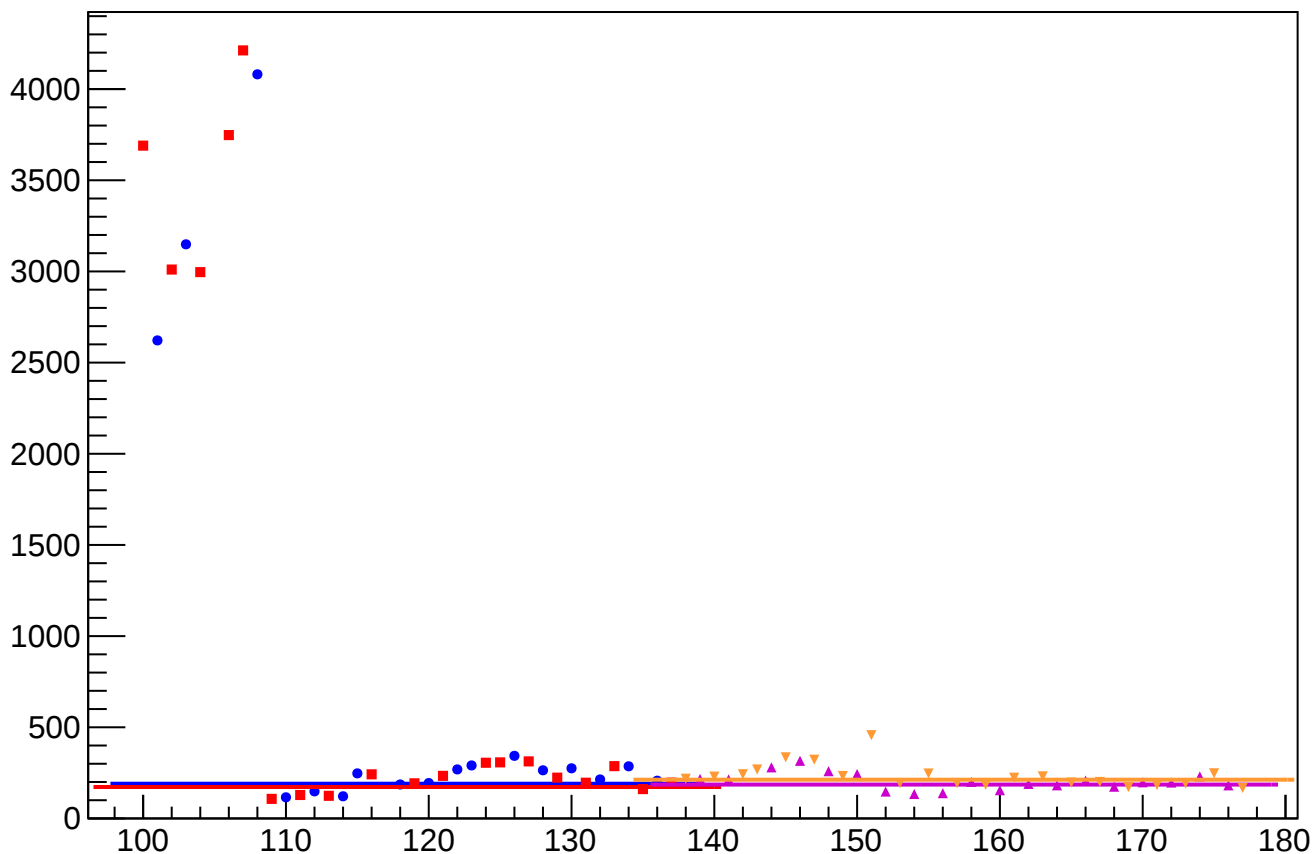
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 48.612+/-43.987 χ^2/NDF : 19.1/35

Out: -5.787+/-45.616 χ^2/NDF : 18.5/39

All: 22.401+/-31.663 χ^2/NDF : 38.3/75

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: 212.558+/-0.039 χ^2/NDF :1324419.6/20

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 185.816+/-0.036 χ^2/NDF :1372821.2/18

Left: 198.080+/-0.026 χ^2/NDF : 2950298.0/39

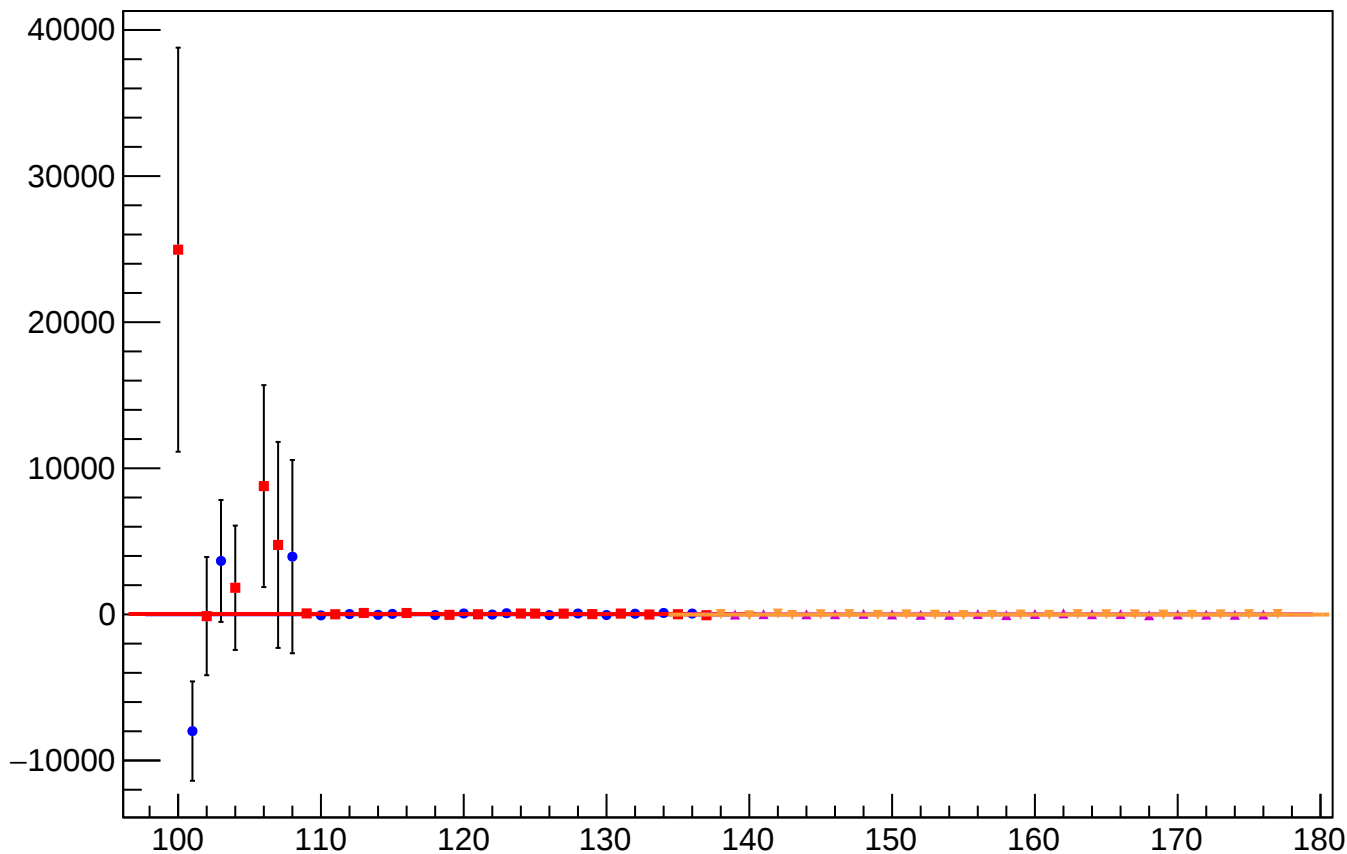
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 187.000+/-0.031 χ^2/NDF :4960659.5/35

Out: 199.773+/-0.032 χ^2/NDF :5876707.7/39

All: 193.154+/-0.022 χ^2/NDF : 10918621.1/75

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: -10.826+/-7.308 χ^2/NDF :12.9/20

Right Out: 29.627+/-12.328 χ^2/NDF : 16.5/18

Left In: 3.537+/-7.554 χ^2/NDF :18.5/18

Left: -3.883+/-5.252 χ^2/NDF : 33.3/39

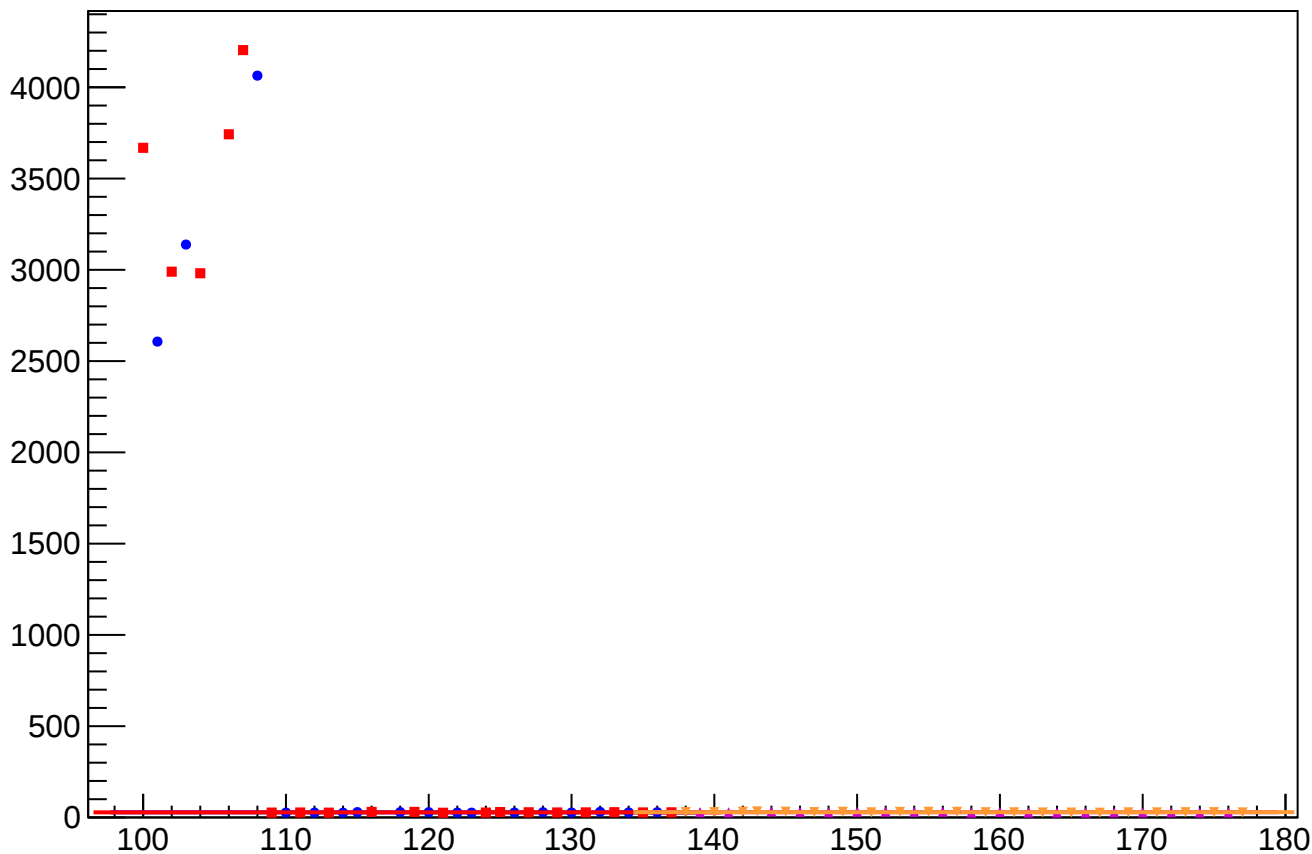
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 5.203+/-6.433 χ^2/NDF :41.9/35

Out: -0.308+/-6.286 χ^2/NDF :37.4/39

All: 2.384+/-4.496 χ^2/NDF : 79.6/75

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: 28.976+/-0.005 χ^2/NDF :106225.3/20

Right Out: 27.917+/-0.009 χ^2/NDF : 3479610.6/18

Left In: 28.817+/-0.005 χ^2/NDF :120222.0/18

Left: 28.899+/-0.004 χ^2/NDF : 226901.4/39

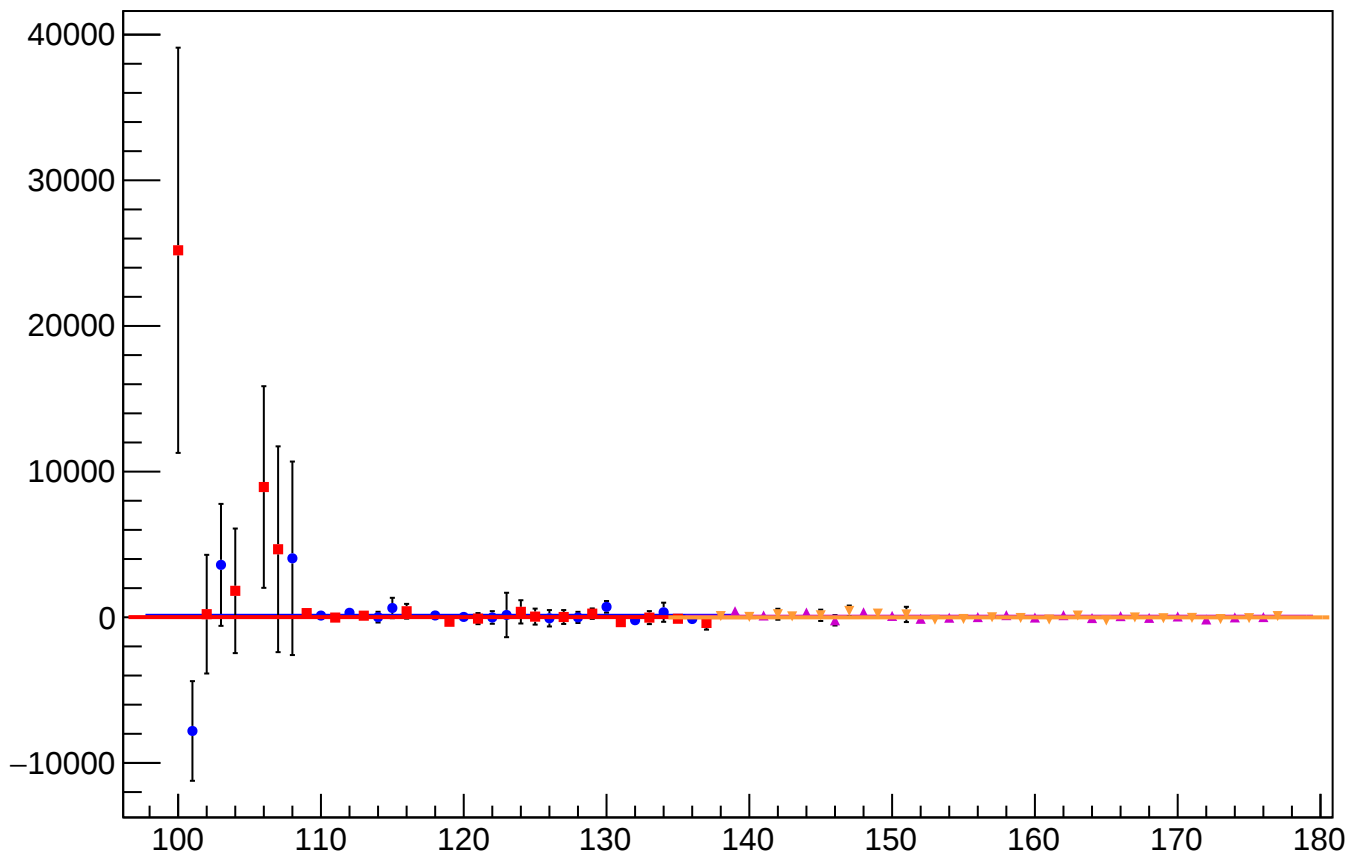
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.599+/-0.005 χ^2/NDF :3153303.8/35

Out: 28.700+/-0.004 χ^2/NDF :3596752.1/39

All: 28.651+/-0.003 χ^2/NDF : 6750310.0/75

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: -5.851 $\pm$ 55.934 χ^2 /NDF:5.7/20

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 40.396 $\pm$ 51.564 χ^2 /NDF:6.7/18

Left: 19.150 $\pm$ 37.912 χ^2 /NDF: 12.8/39

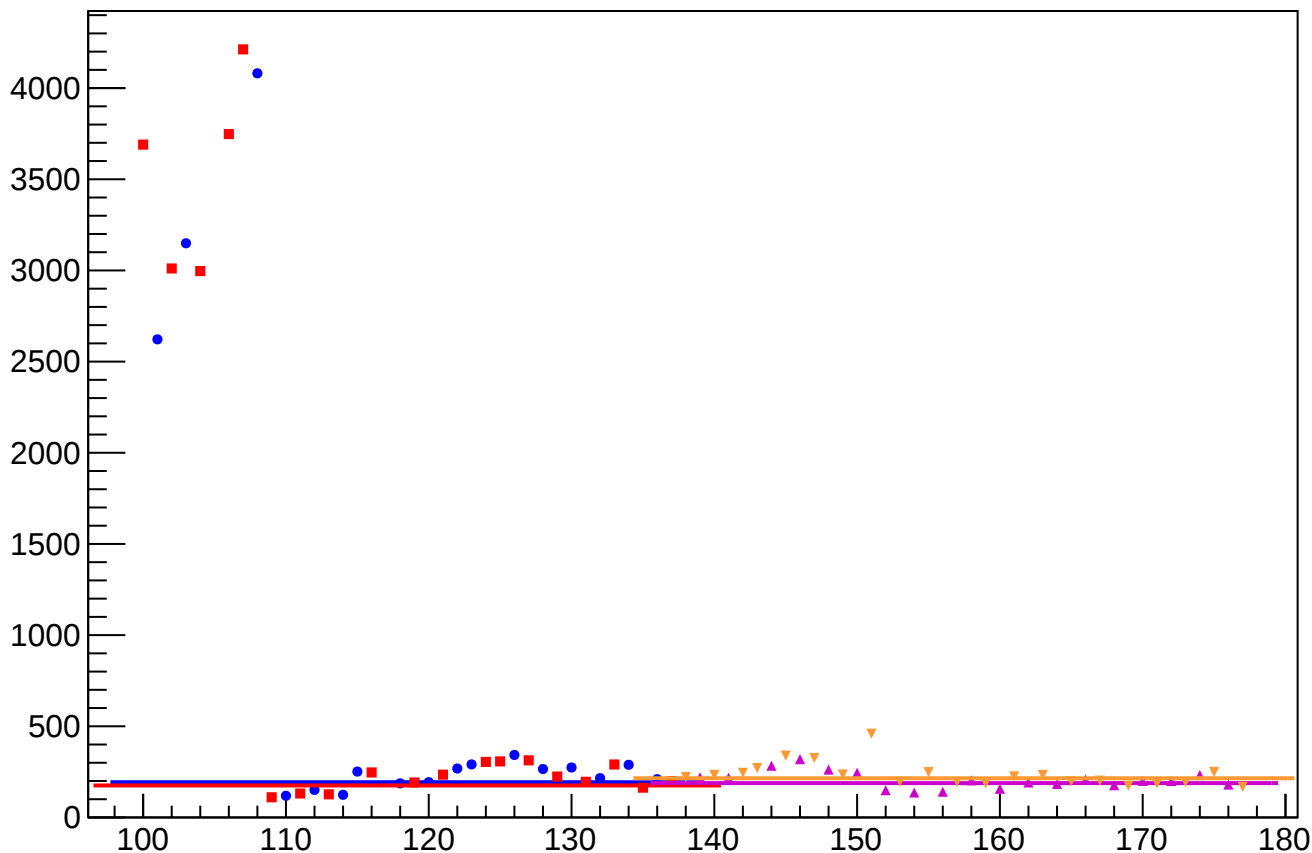
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 55.980 $\pm$ 44.539 χ^2 /NDF:19.5/35

Out: -0.403 $\pm$ 46.159 χ^2 /NDF:18.0/39

All: 28.795 $\pm$ 32.051 χ^2 /NDF: 38.2/75

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: 215.006+/-0.040 χ^2/NDF :1318504.1/20

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 188.351+/-0.036 χ^2/NDF :1342539.5/18

Left: 200.597+/-0.027 χ^2/NDF : 2906575.1/39

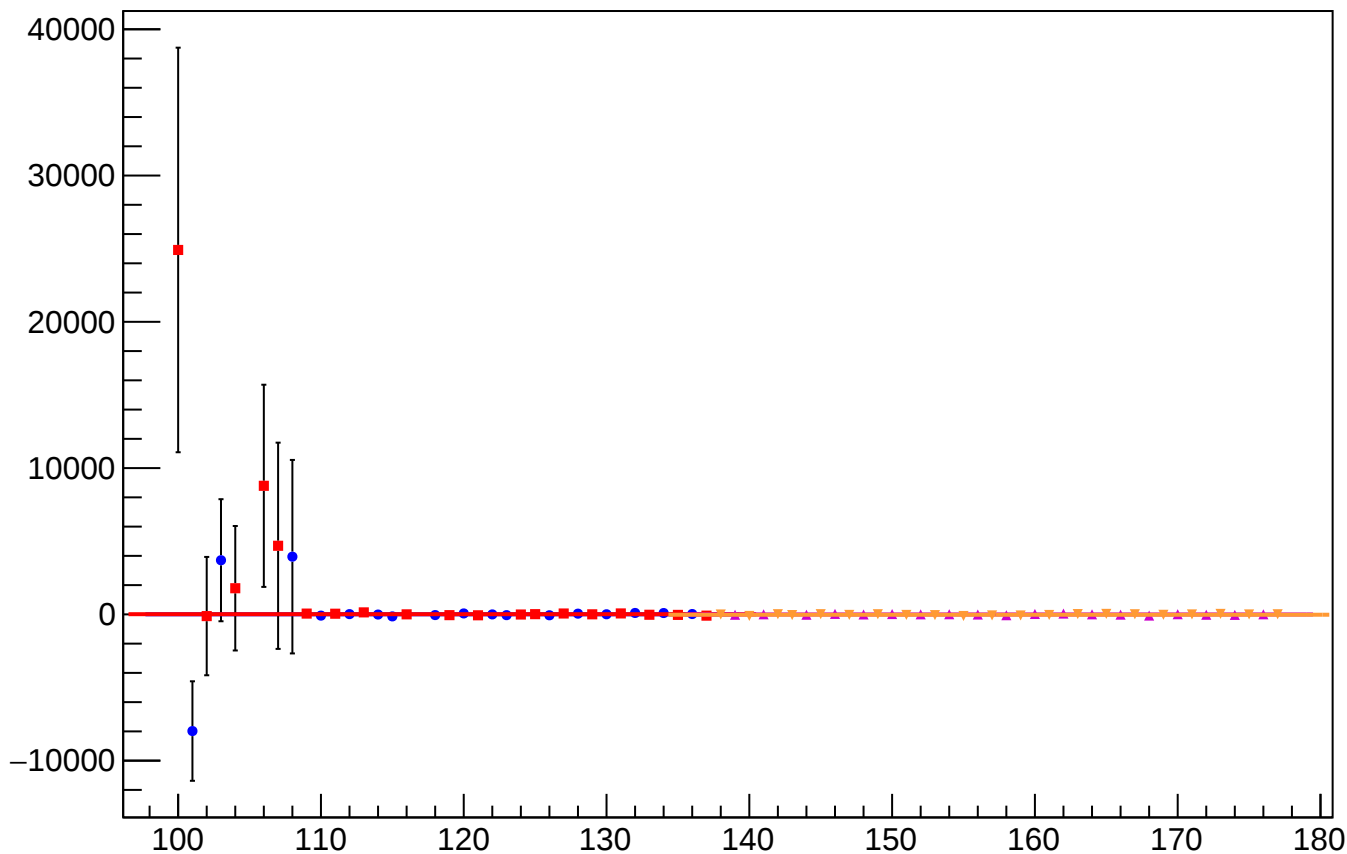
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 189.580+/-0.031 χ^2/NDF :4883135.2/35

Out: 202.400+/-0.033 χ^2/NDF :5802391.8/39

All: 195.761+/-0.023 χ^2/NDF : 10765417.6/75

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651+/-14.935 χ^2/NDF : 20.4/16

Left Out: -24.537+/-8.737 χ^2/NDF : 22.1/20

Right Out: 12.487+/-14.947 χ^2/NDF : 21.7/18

Left In: -4.921+/-9.051 χ^2/NDF : 12.8/18

Left: -15.076+/-6.286 χ^2/NDF : 37.3/39

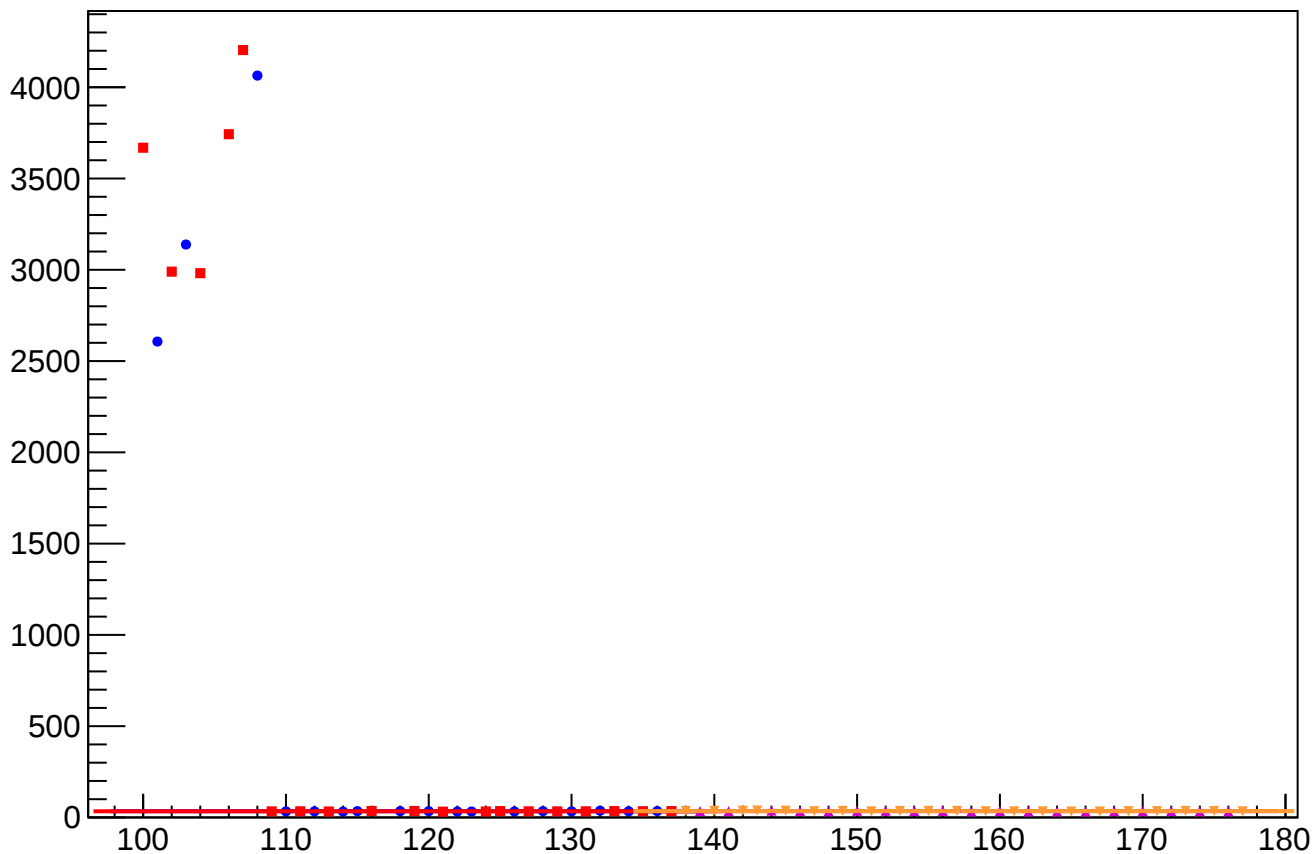
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -2.350+/-7.741 χ^2/NDF : 33.5/35

Out: -15.109+/-7.543 χ^2/NDF : 48.3/39

All: -8.895+/-5.402 χ^2/NDF : 83.2/75

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: 34.697 $\pm$ 0.006 χ^2 /NDF: 49907.3/20

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.592 $\pm$ 0.006 χ^2 /NDF: 54079.6/18

Left: 34.646 $\pm$ 0.004 χ^2 /NDF: 104126.4/39

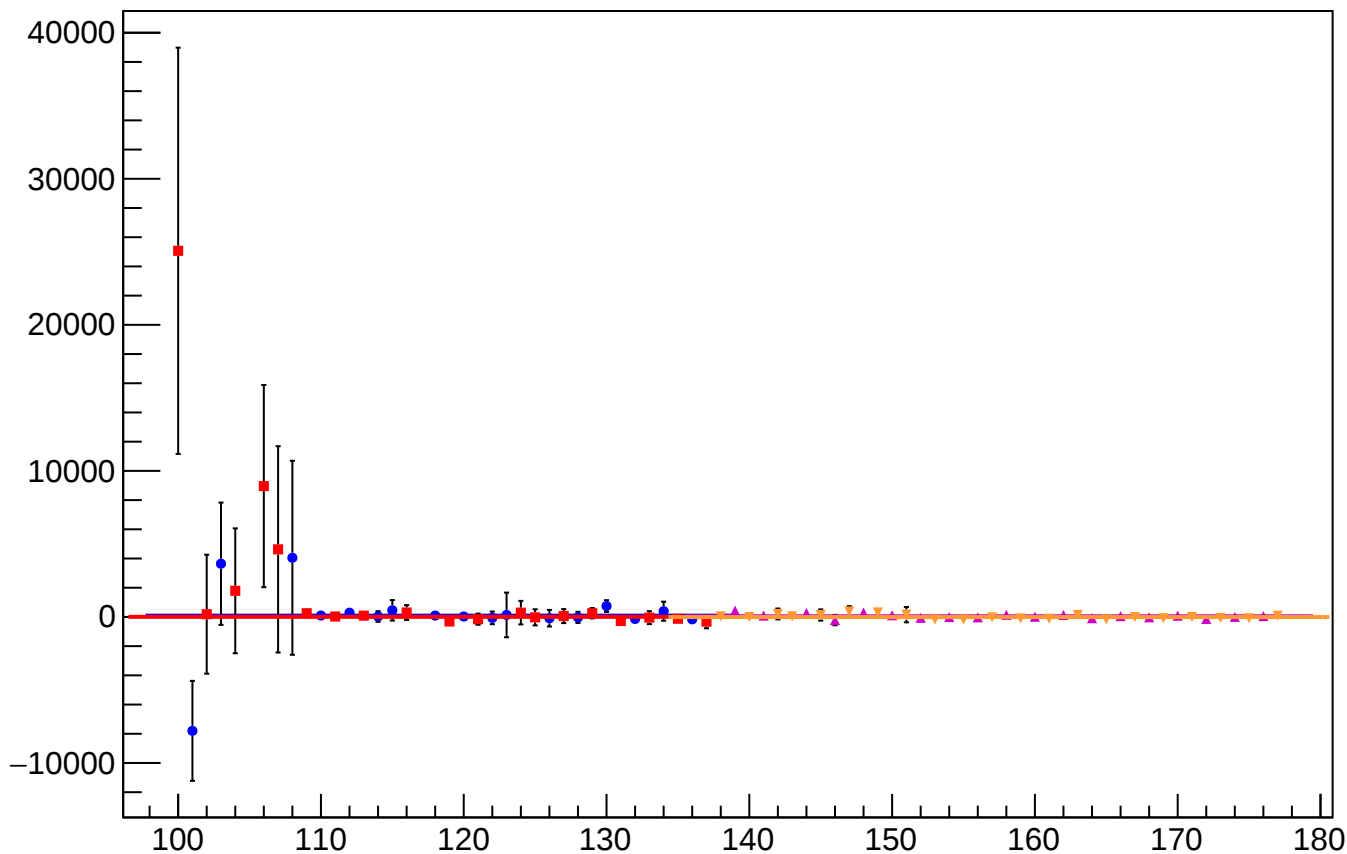
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.470 $\pm$ 0.005 χ^2 /NDF: 3061681.6/35

Out: 34.497 $\pm$ 0.005 χ^2 /NDF: 3505899.0/39

All: 34.484 $\pm$ 0.004 χ^2 /NDF: 6567593.4/75

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: -8.889+/-55.875 χ^2/NDF : 5.7/20

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 44.099+/-51.494 χ^2/NDF : 6.1/18

Left: 19.763+/-37.866 χ^2/NDF : 12.2/39

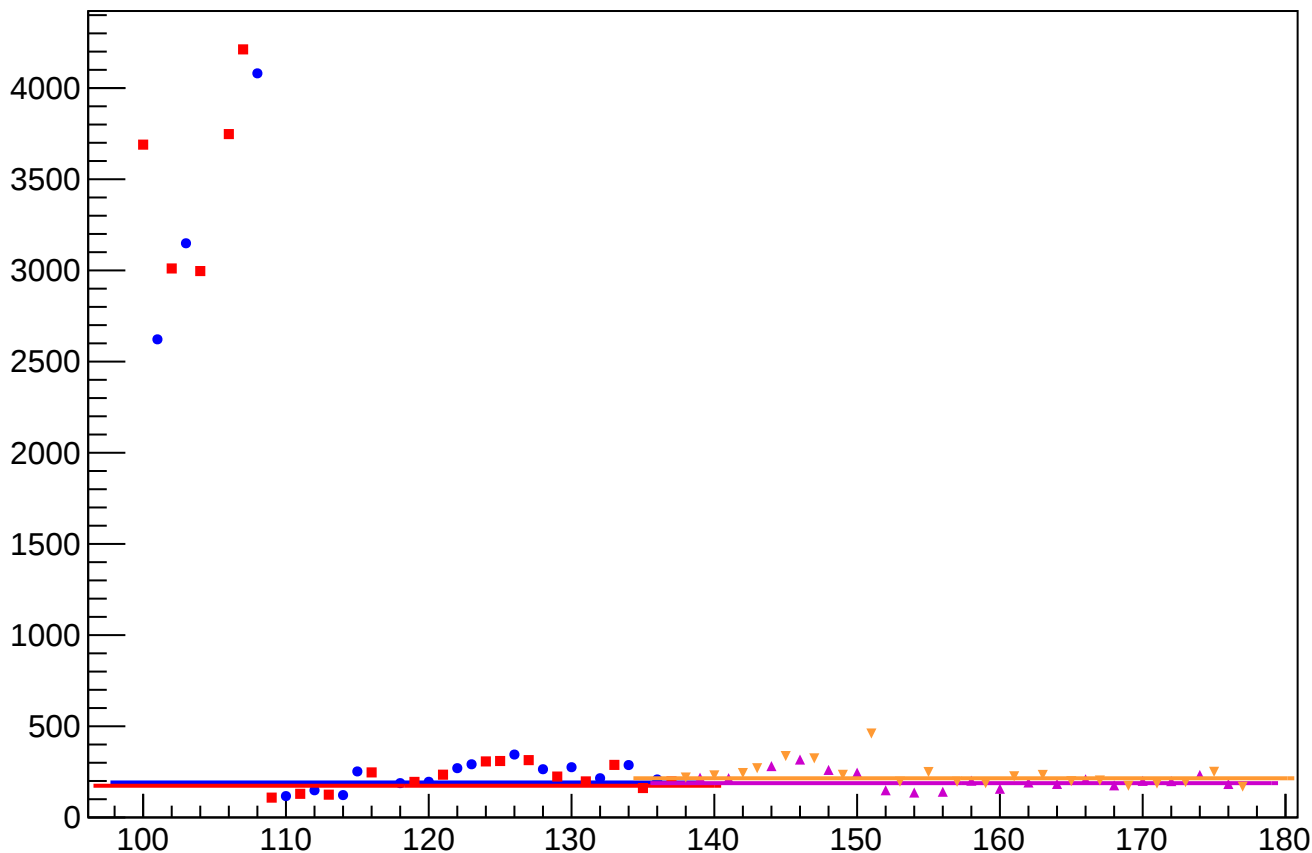
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 54.806+/-44.437 χ^2/NDF : 18.6/35

Out: -3.689+/-46.032 χ^2/NDF : 16.8/39

All: 26.589+/-31.971 χ^2/NDF : 36.2/75

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: 214.816+/-0.040 χ^2/NDF :1301270.7/20

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 188.106+/-0.036 χ^2/NDF :1331208.6/18

Left: 200.373+/-0.027 χ^2/NDF : 2879621.4/39

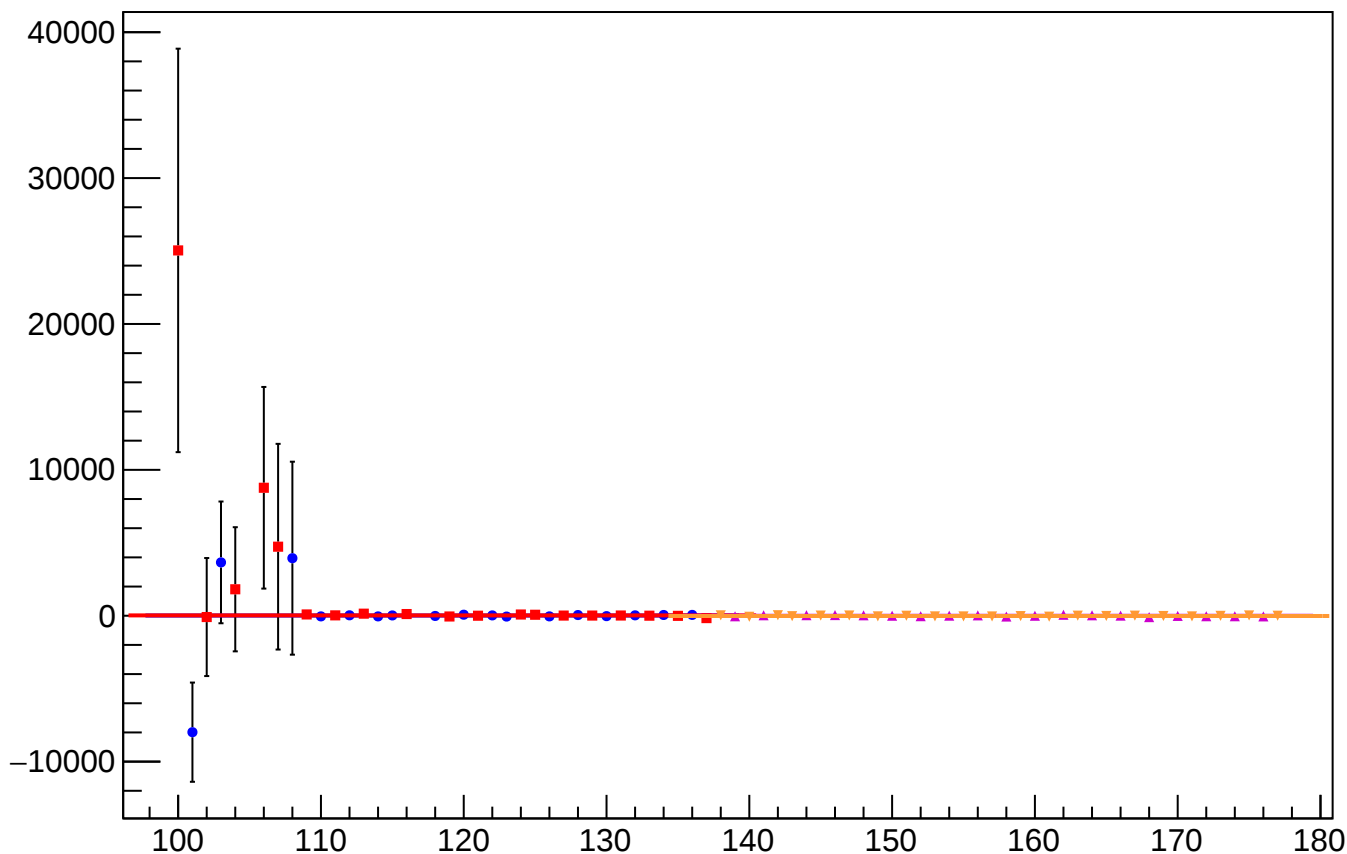
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 189.069+/-0.031 χ^2/NDF :4907012.1/35

Out: 201.679+/-0.033 χ^2/NDF :5856776.2/39

All: 195.152+/-0.023 χ^2/NDF : 10841469.7/75

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: -17.937+/-7.939 χ^2/NDF : 13.8/20

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: -3.183+/-8.226 χ^2/NDF : 25.0/18

Left: -10.821+/-5.712 χ^2/NDF : 40.4/39

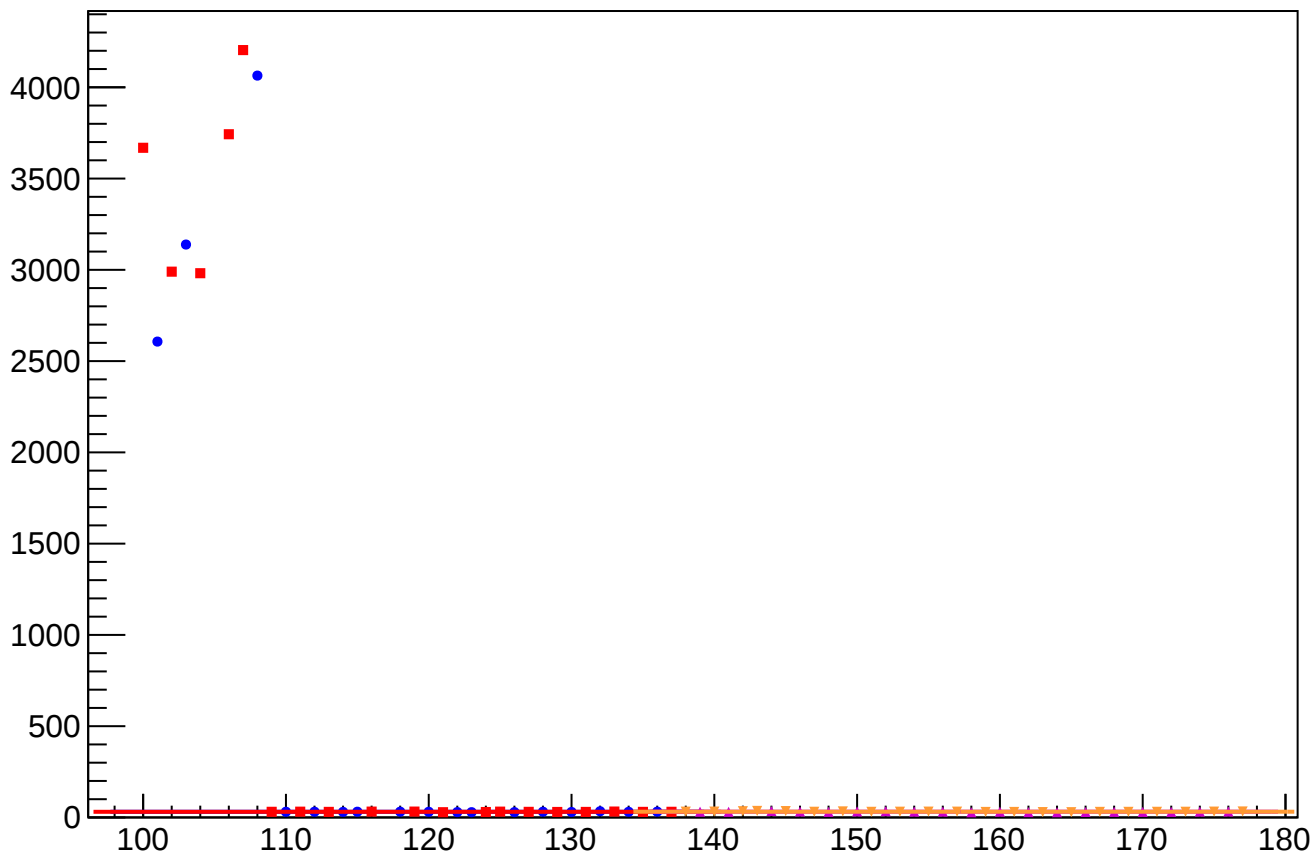
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 1.443+/-7.041 χ^2/NDF : 41.3/35

Out: -7.501+/-6.863 χ^2/NDF : 48.1/39

All: -3.143+/-4.915 χ^2/NDF : 90.3/75

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127 $\pm$ 0.010 χ^2 /NDF: 3014425.9/16

Left Out: 31.502 $\pm$ 0.006 χ^2 /NDF: 76403.2/20

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.397 $\pm$ 0.006 χ^2 /NDF: 84580.7/18

Left: 31.451 $\pm$ 0.004 χ^2 /NDF: 161155.1/39

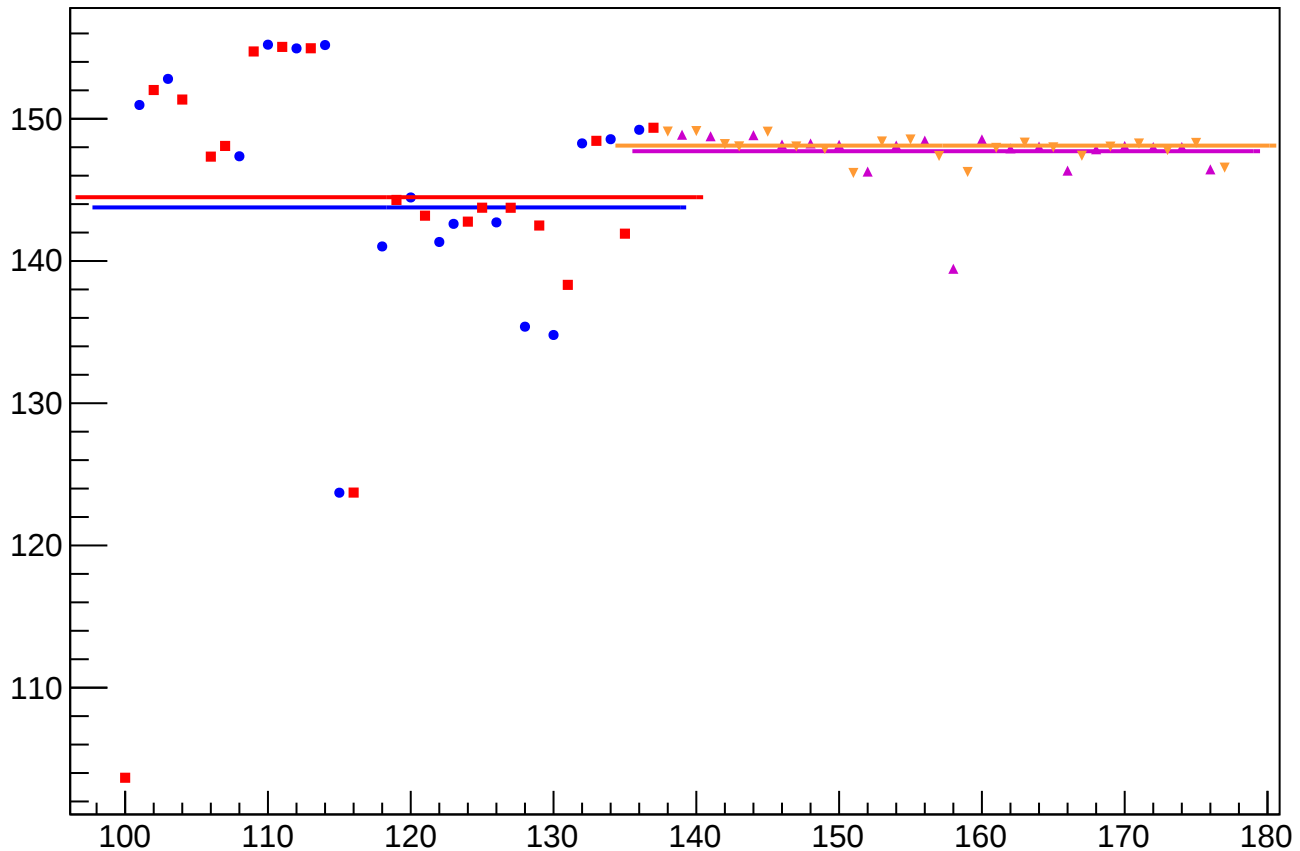
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.324 $\pm$ 0.005 χ^2 /NDF: 3099582.0/35

Out: 31.366 $\pm$ 0.005 χ^2 /NDF: 3537678.5/39

All: 31.346 $\pm$ 0.003 χ^2 /NDF: 6637296.4/75

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.114 $\pm$ 0.000 χ^2 /NDF: 59856567.2/20

Right Out: 144.486 $\pm$ 0.000 χ^2 /NDF: 4183608291.3/18

Left In: 147.720 $\pm$ 0.000 χ^2 /NDF: 329117172.4/18

Left: 147.926 $\pm$ 0.000 χ^2 /NDF: 395263186.6/39

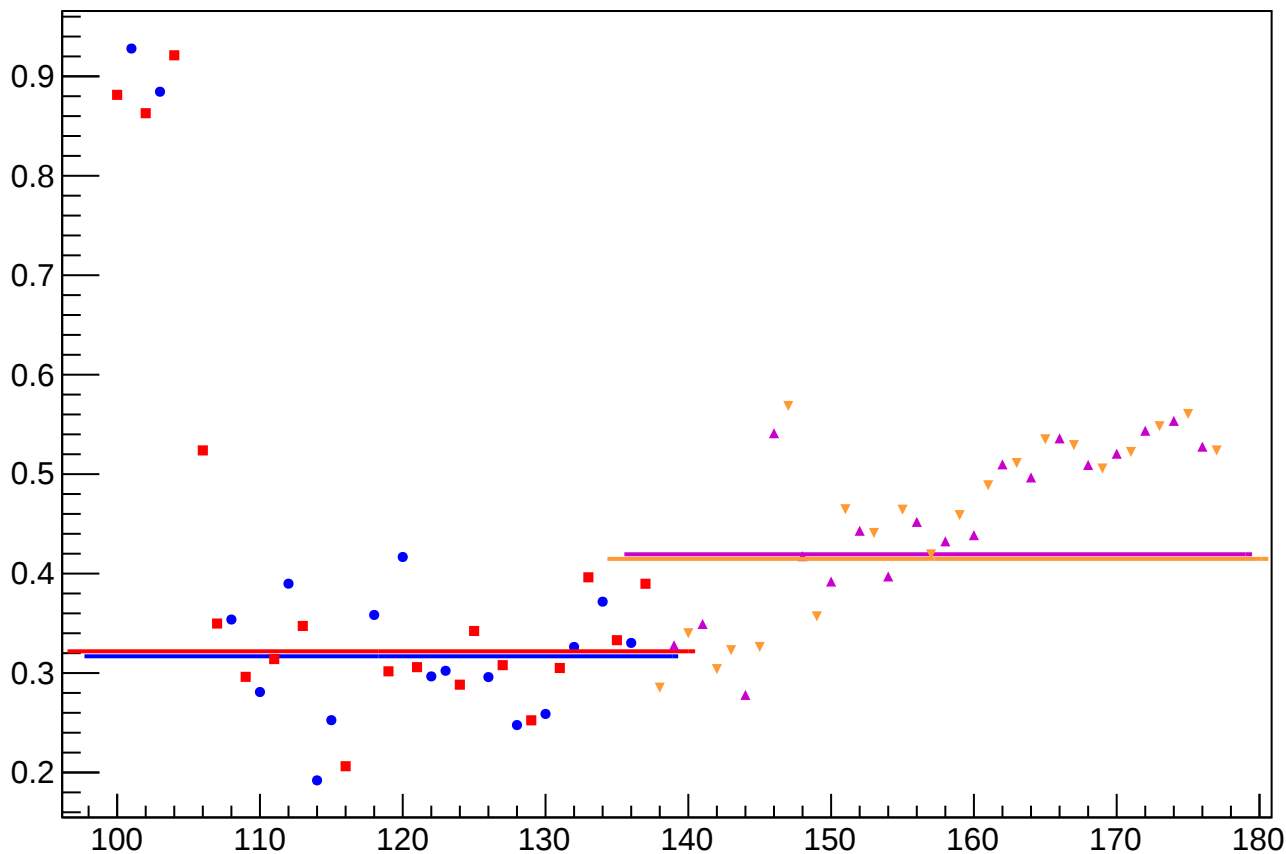
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 146.067 $\pm$ 0.000 χ^2 /NDF: 4366846288.0/35

Out: 146.659 $\pm$ 0.000 χ^2 /NDF: 4689776757.2/39

All: 146.372 $\pm$ 0.000 χ^2 /NDF: 9080657984.6

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.415 $\pm$ 0.000 χ^2 /NDF:1486203.2/20

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.419 $\pm$ 0.000 χ^2 /NDF:1161044.3/18

Left: 0.417 $\pm$ 0.000 χ^2 /NDF: 2648981.6/39

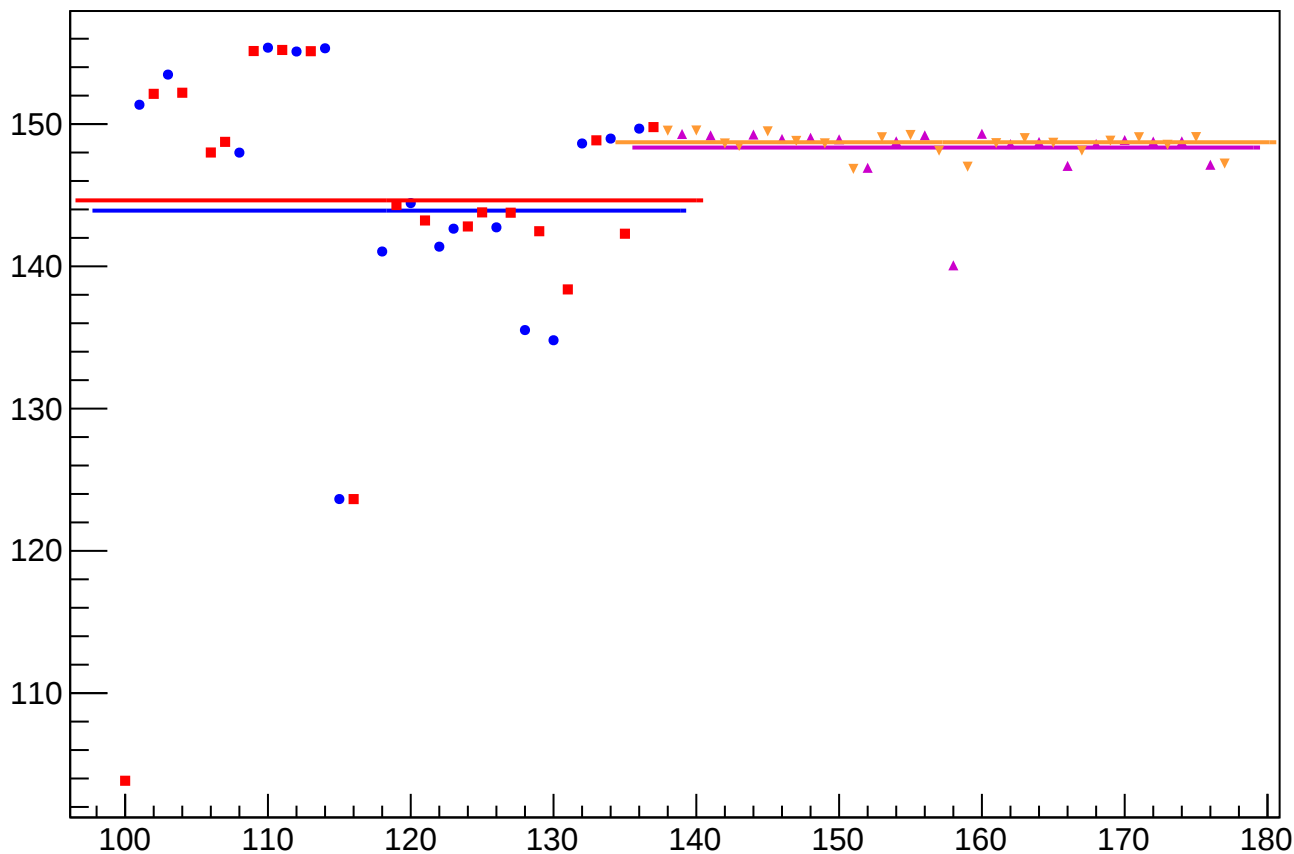
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.377 $\pm$ 0.000 χ^2 /NDF:3121434.1/35

Out: 0.378 $\pm$ 0.000 χ^2 /NDF:3289400.2/39

All: 0.377 $\pm$ 0.000 χ^2 /NDF: 6410978.4/75

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000 χ^2 /NDF: 3584662767.5/16

Left Out: 148.723 $\pm$ 0.000 χ^2 /NDF: 47909141.0/20

Right Out: 144.637 $\pm$ 0.000 χ^2 /NDF: 4210524953.9/18

Left In: 148.350 $\pm$ 0.000 χ^2 /NDF: 318527335.2/18

Left: 148.545 $\pm$ 0.000 χ^2 /NDF: 371944025.8/39

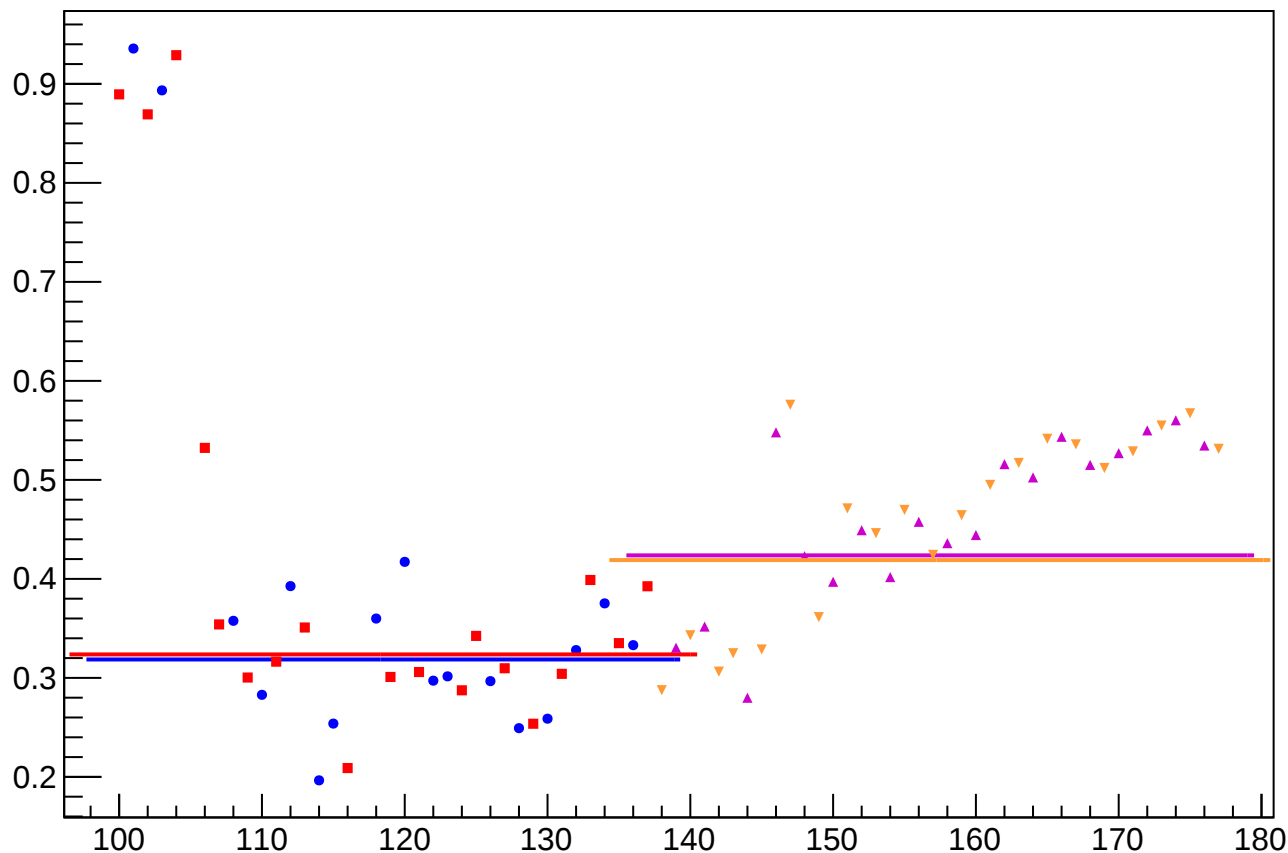
Right: 144.280 $\pm$ 0.000 χ^2 /NDF: 7809567994.8/35

In: 146.485 $\pm$ 0.000 χ^2 /NDF: 4529703247.2/35

Out: 147.075 $\pm$ 0.000 χ^2 /NDF: 4815714015.4/39

All: 146.789 $\pm$ 0.000 χ^2 /NDF: 9368895425.7

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.419+/-0.000 χ^2/NDF :1513015.3/20

Right Out: 0.324+/-0.000 χ^2/NDF : 1220898.3/18

Left In: 0.424+/-0.000 χ^2/NDF :1182663.5/18

Left: 0.421+/-0.000 χ^2/NDF : 2697462.8/39

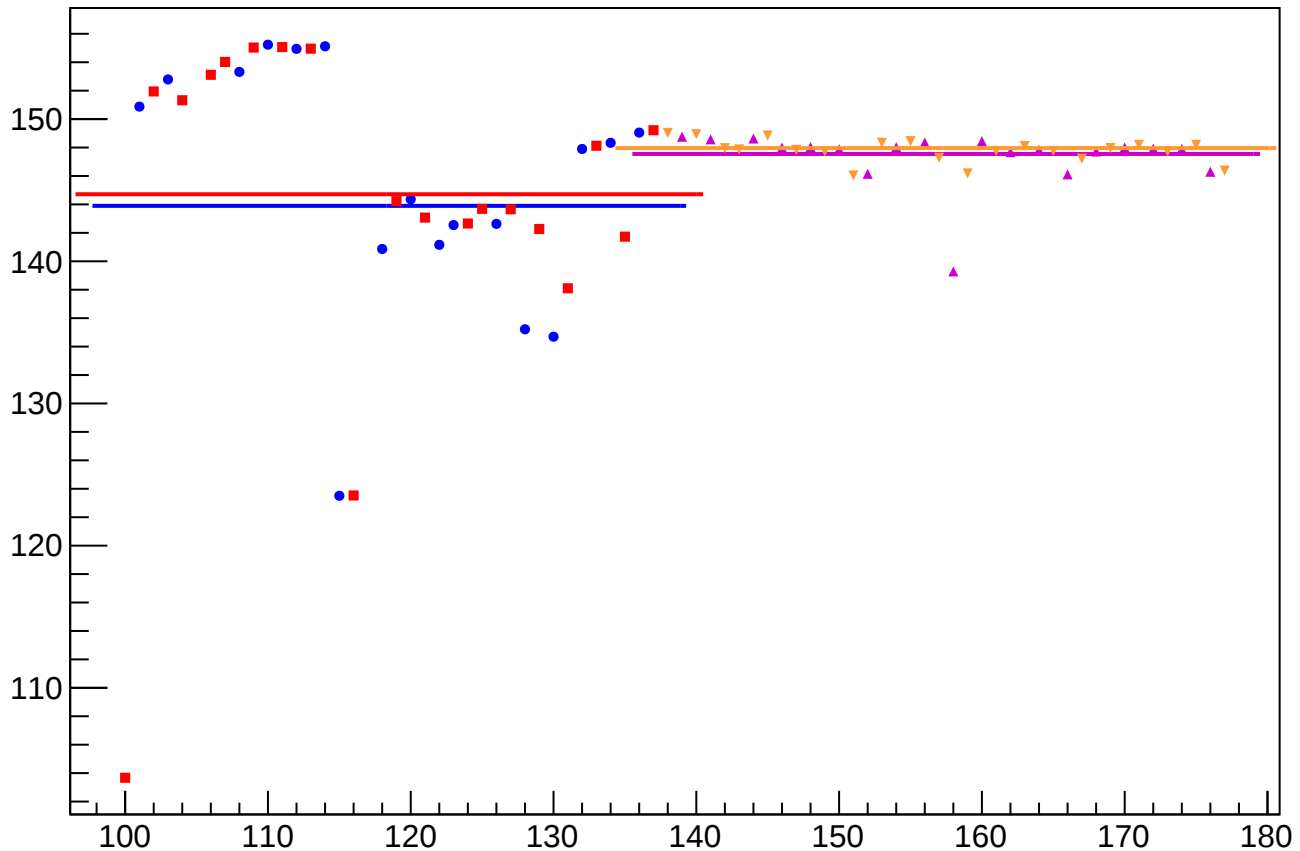
Right: 0.321+/-0.000 χ^2/NDF : 2503090.8/35

In: 0.380+/-0.000 χ^2/NDF :3168468.3/35

Out: 0.381+/-0.000 χ^2/NDF :3340251.8/39

All: 0.380+/-0.000 χ^2/NDF : 6508872.3/75

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 ± 0.000 $\chi^2/\text{NDF}: 3749888331.0/16$

Left Out: 147.962 ± 0.000 $\chi^2/\text{NDF}: 58481007.9/20$

Right Out: 144.715 ± 0.000 $\chi^2/\text{NDF}: 4474458988.7/18$

Left In: 147.548 ± 0.000 $\chi^2/\text{NDF}: 328182080.3/18$

Left: 147.764 ± 0.000 $\chi^2/\text{NDF}: 393533297.2/39$

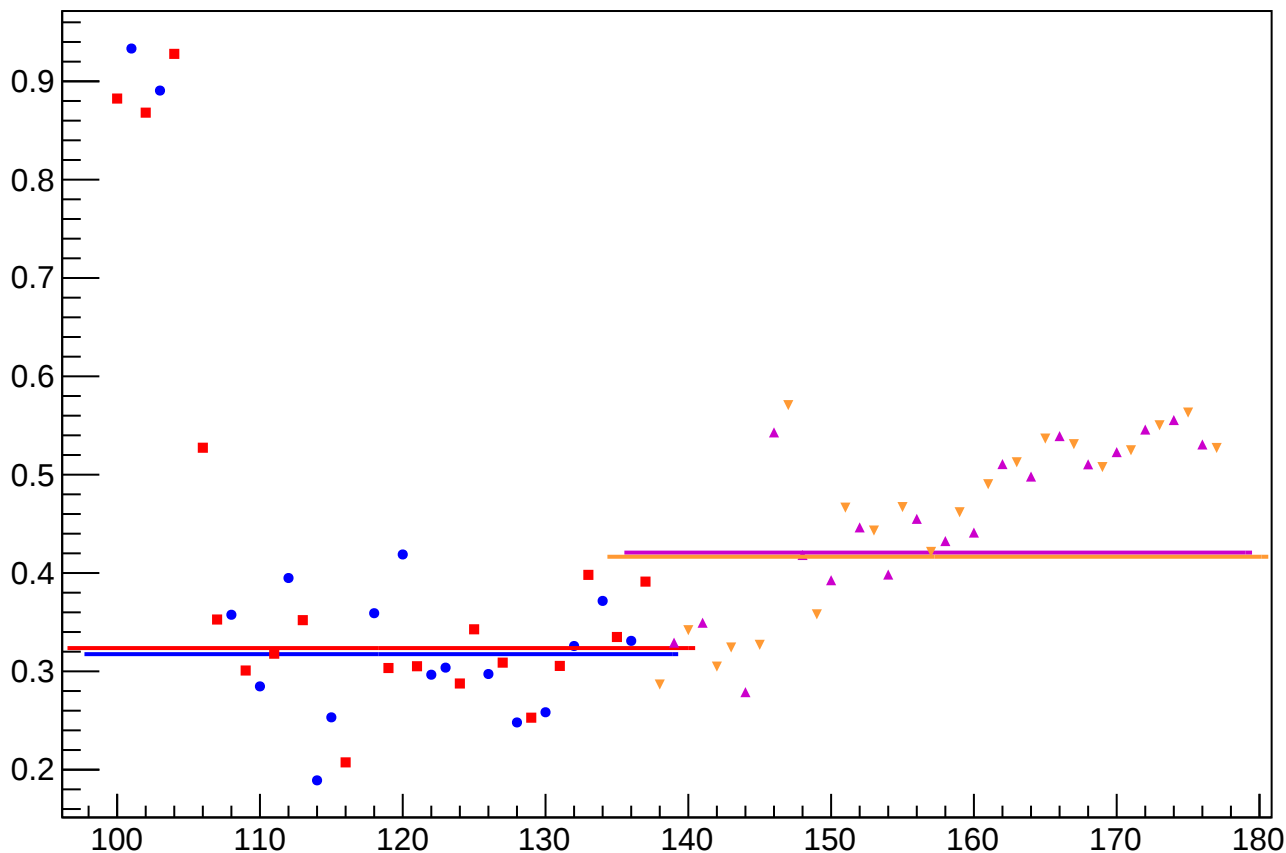
Right: 144.309 ± 0.000 $\chi^2/\text{NDF}: 8242891510.2/35$

In: 146.021 ± 0.000 $\chi^2/\text{NDF}: 4506618594.2/35$

Out: 146.662 ± 0.000 $\chi^2/\text{NDF}: 4886698497.2/39$

All: 146.350 ± 0.000 $\chi^2/\text{NDF}: 9421236011.6$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.417 $\pm$ 0.000 χ^2/NDF : 1488870.5/20

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1221676.7/18

Left In: 0.421 $\pm$ 0.000 χ^2/NDF : 1168314.5/18

Left: 0.419 $\pm$ 0.000 χ^2/NDF : 2658614.7/39

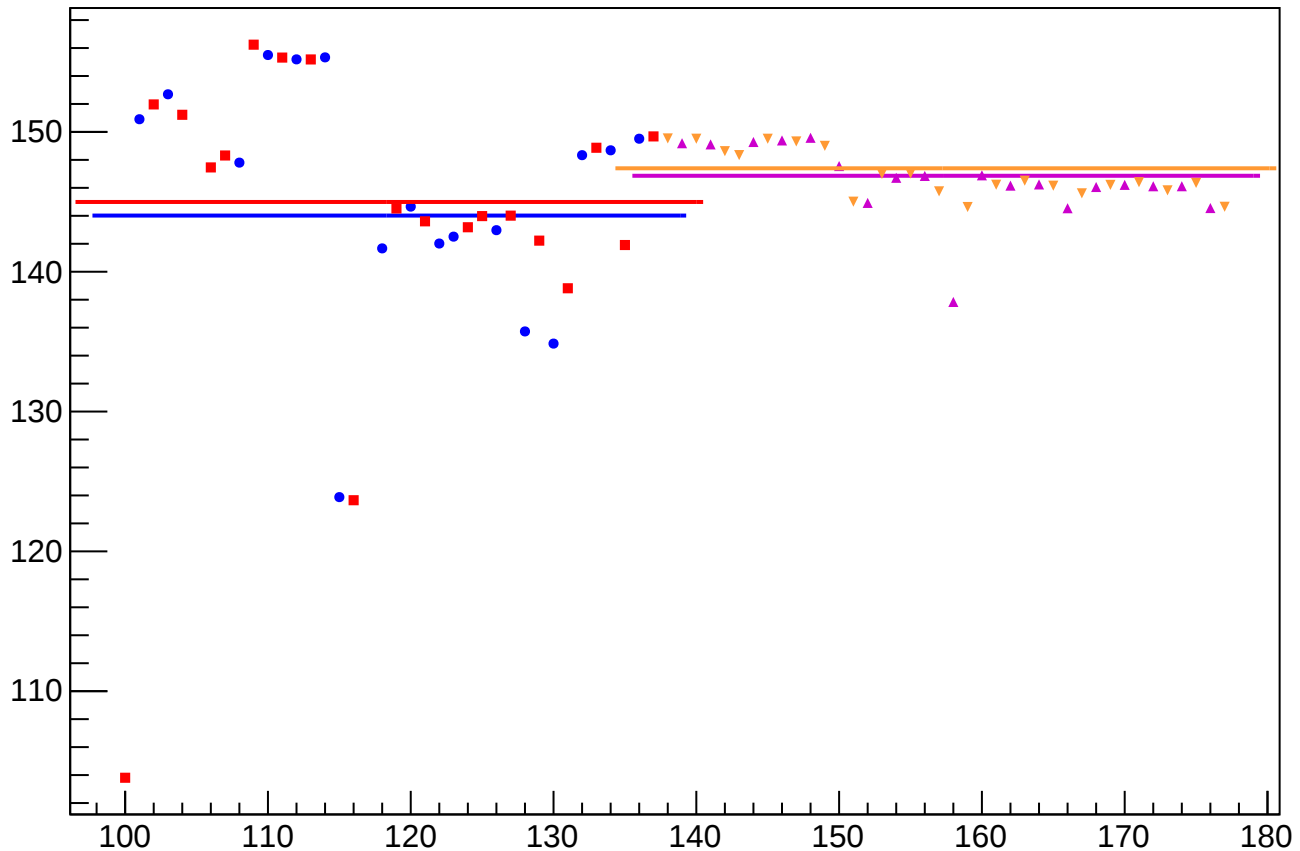
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2516974.9/35

In: 0.378 $\pm$ 0.000 χ^2/NDF : 3147756.2/35

Out: 0.379 $\pm$ 0.000 χ^2/NDF : 3289414.7/39

All: 0.378 $\pm$ 0.000 χ^2/NDF : 6437613.8/75

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.398 $\pm$ 0.000 χ^2 /NDF: 233693170.3/20

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 146.864 $\pm$ 0.000 χ^2 /NDF: 521537709.2/18

Left: 147.142 $\pm$ 0.000 χ^2 /NDF: 766032010.8/39

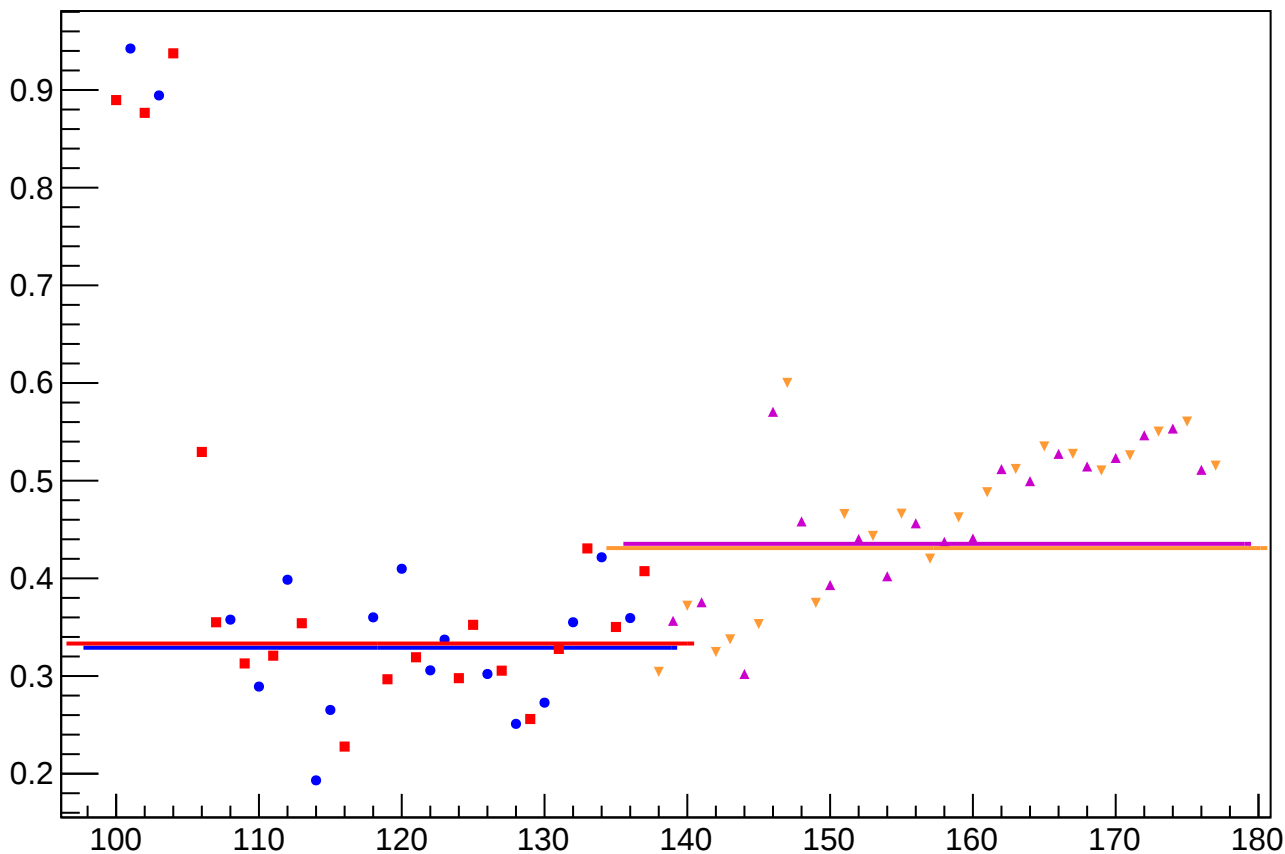
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.683 $\pm$ 0.000 χ^2 /NDF: 4003685743.8/35

Out: 146.434 $\pm$ 0.000 χ^2 /NDF: 4270488045.0/39

All: 146.070 $\pm$ 0.000 χ^2 /NDF: 8310158768.9

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2 /NDF: 1276118.3/16

Left Out: 0.431 $\pm$ 0.000 χ^2 /NDF:1150066.4/20

Right Out: 0.333 $\pm$ 0.000 χ^2 /NDF: 1182496.7/18

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:872949.5/18

Left: 0.433 $\pm$ 0.000 χ^2 /NDF: 2024458.4/39

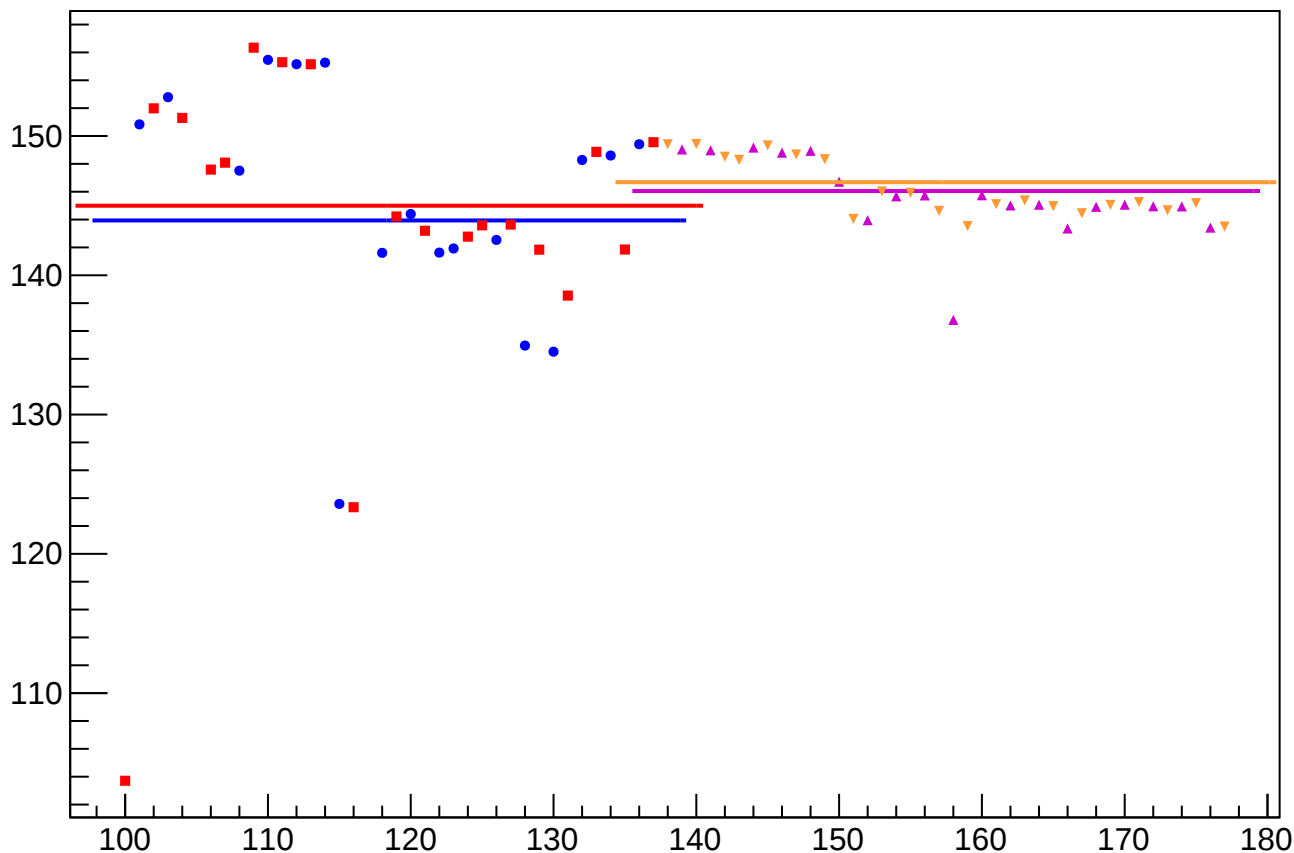
Right: 0.331 $\pm$ 0.000 χ^2 /NDF: 2459580.1/35

In: 0.391 $\pm$ 0.000 χ^2 /NDF:2829905.7/35

Out: 0.392 $\pm$ 0.000 χ^2 /NDF:2936297.0/39

All: 0.392 $\pm$ 0.000 χ^2 /NDF: 5766254.3/75

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 ± 0.000 $\chi^2/\text{NDF}: 3379203532.9/16$

Left Out: 146.683 ± 0.000 $\chi^2/\text{NDF}: 359377242.3/20$

Right Out: 144.995 ± 0.000 $\chi^2/\text{NDF}: 3934069043.2/18$

Left In: 146.048 ± 0.000 $\chi^2/\text{NDF}: 647770033.8/18$

Left: 146.379 ± 0.000 $\chi^2/\text{NDF}: 1022301606.9/39$

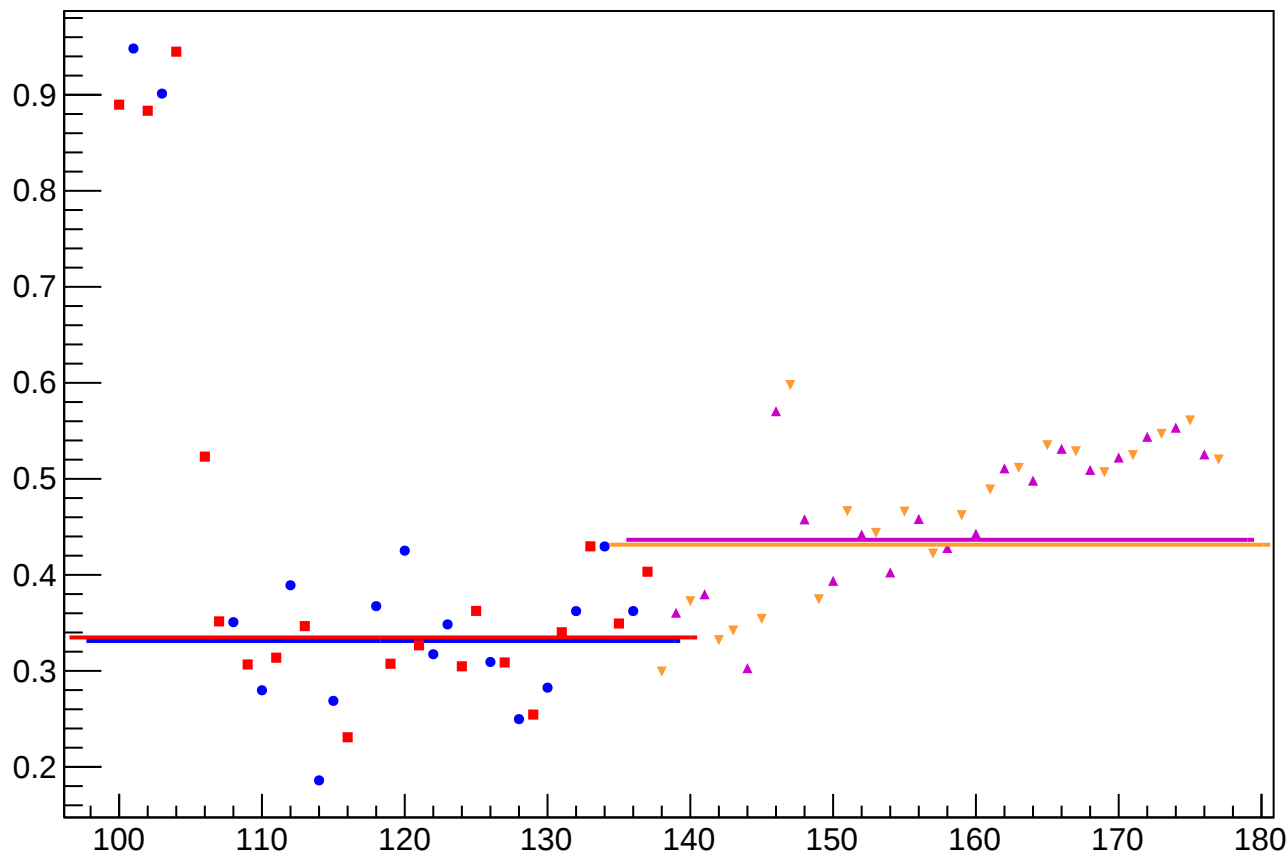
Right: 144.474 ± 0.000 $\chi^2/\text{NDF}: 7341982360.6/35$

In: 145.178 ± 0.000 $\chi^2/\text{NDF}: 4159374866.3/35$

Out: 146.010 ± 0.000 $\chi^2/\text{NDF}: 4382821792.1/39$

All: 145.608 ± 0.000 $\chi^2/\text{NDF}: 8586013979.1$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.431+/-0.000 χ^2/NDF : 1142664.7/20

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.437+/-0.000 χ^2/NDF : 854632.3/18

Left: 0.434+/-0.000 χ^2/NDF : 1999245.9/39

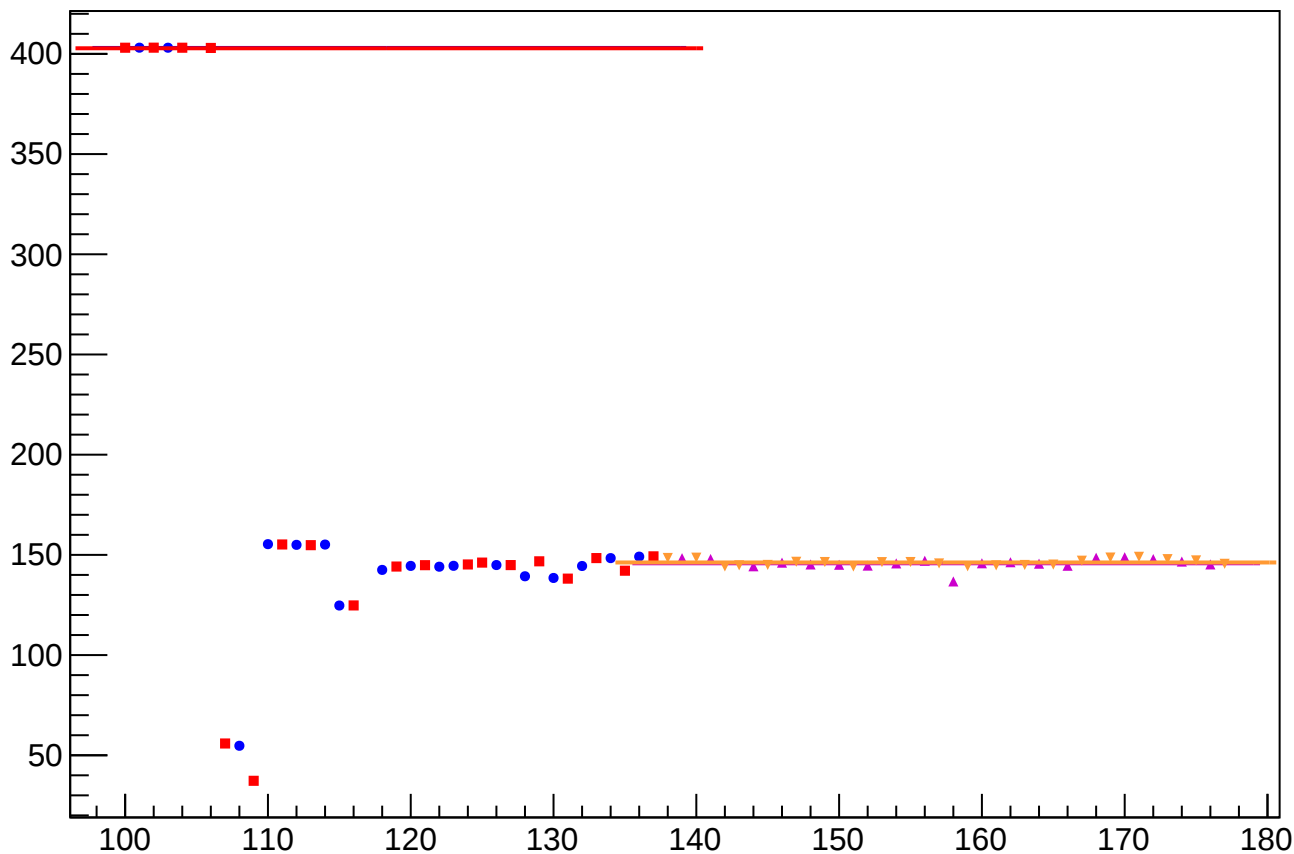
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.393+/-0.000 χ^2/NDF : 2809587.4/35

Out: 0.393+/-0.000 χ^2/NDF : 2900317.7/39

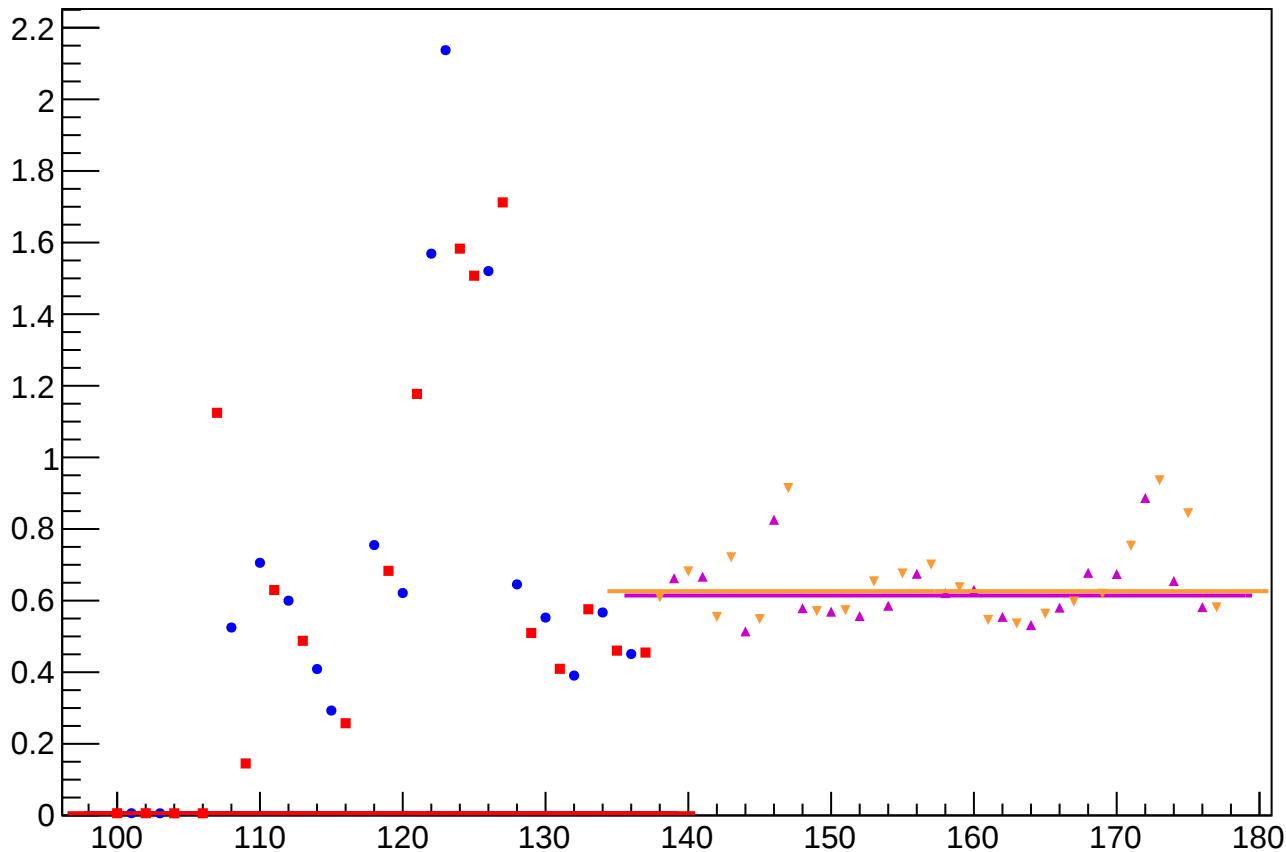
All: 0.393+/-0.000 χ^2/NDF : 5709908.7/75

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000 χ^2/NDF : 1096710296821.6/16
 Left Out: 146.211+/-0.000 χ^2/NDF : 74713797.7/20
 Right Out: 402.799+/-0.000 χ^2/NDF : 3103890772575.4/18
 Left In: 145.799+/-0.000 χ^2/NDF : 170174184.4/18
 Left: 146.008+/-0.000 χ^2/NDF : 247440208.8/39
 Right: 402.873+/-0.000 χ^2/NDF : 4201017642924.7/39
 In: 402.713+/-0.000 χ^2/NDF : 3050051701570.8/39
 Out: 402.578+/-0.000 χ^2/NDF : 5103921161817.5/39
 All: 402.641+/-0.000 χ^2/NDF : 815427870785.4/78

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.626+/-0.000 χ^2/NDF :558007.7/20

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.614+/-0.000 χ^2/NDF :350578.9/18

Left: 0.620+/-0.000 χ^2/NDF : 913071.4/39

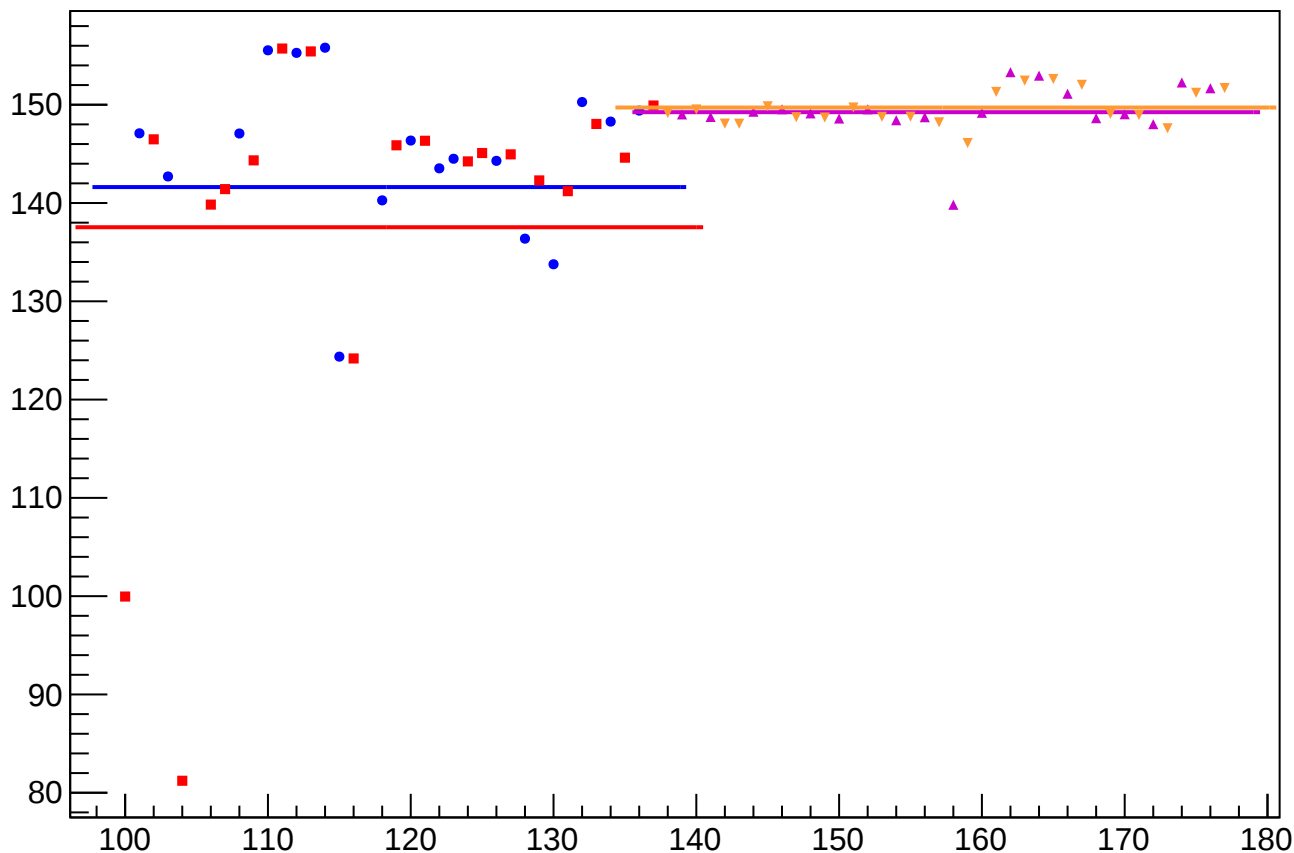
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF :31341362.9/35

Out: 0.007+/-0.000 χ^2/NDF :33136128.1/39

All: 0.007+/-0.000 χ^2/NDF : 64477585.6/75

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.715 $\pm$ 0.000 χ^2 /NDF: 140403963.3/20

Right Out: 137.536 $\pm$ 0.000 χ^2 /NDF: 1315768553.6/18

Left In: 149.242 $\pm$ 0.000 χ^2 /NDF: 401779590.9/18

Left: 149.487 $\pm$ 0.000 χ^2 /NDF: 547060771.8/39

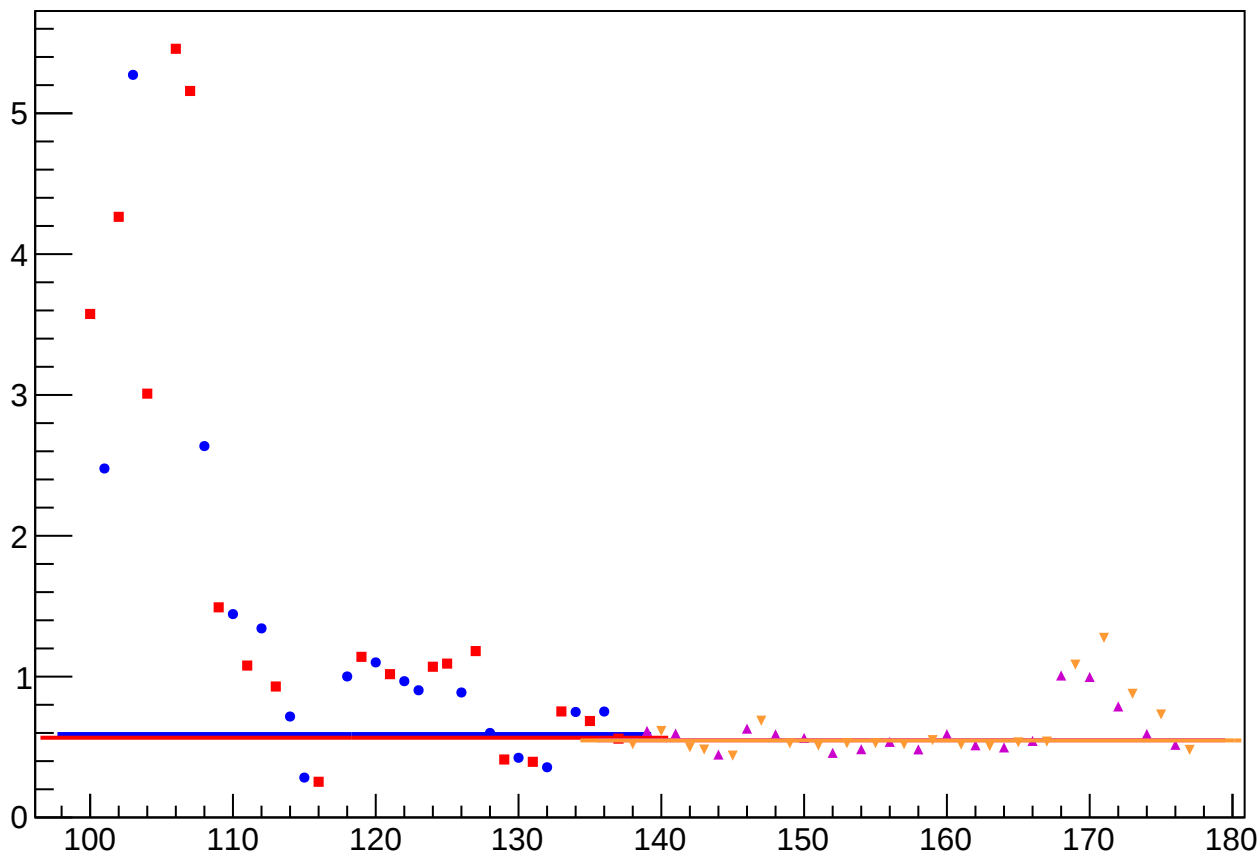
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.761 $\pm$ 0.000 χ^2 /NDF: 1857206589.5/35

Out: 147.390 $\pm$ 0.000 χ^2 /NDF: 2730765317.3/39

All: 147.569 $\pm$ 0.000 χ^2 /NDF: 4591683667.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.547 $\pm$ 0.000 χ^2 /NDF:1342814.2/20

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4682140.9/18

Left In: 0.549 $\pm$ 0.000 χ^2 /NDF:967488.8/18

Left: 0.548 $\pm$ 0.000 χ^2 /NDF: 2310423.5/39

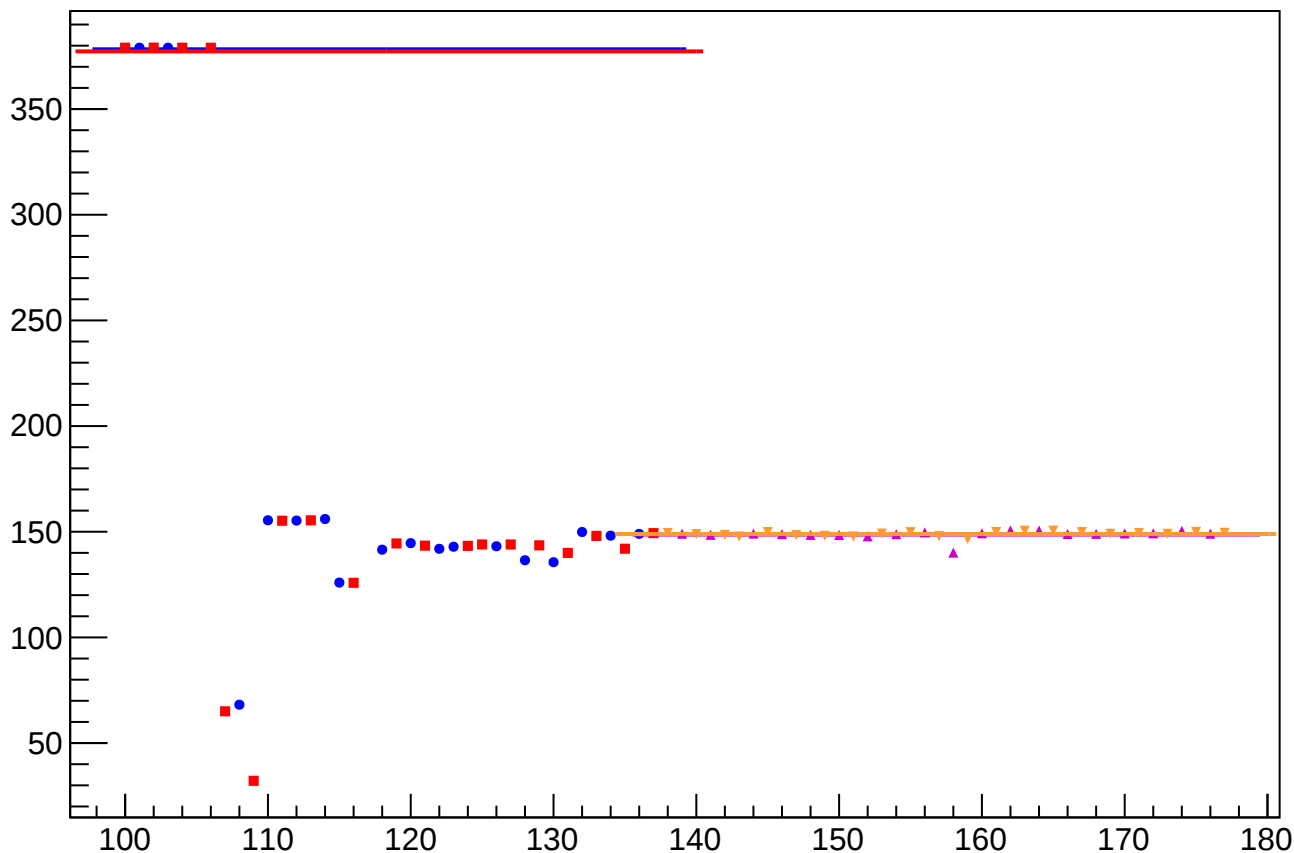
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.557 $\pm$ 0.000 χ^2 /NDF:4520262.4/35

Out: 0.551 $\pm$ 0.000 χ^2 /NDF:6031366.6/39

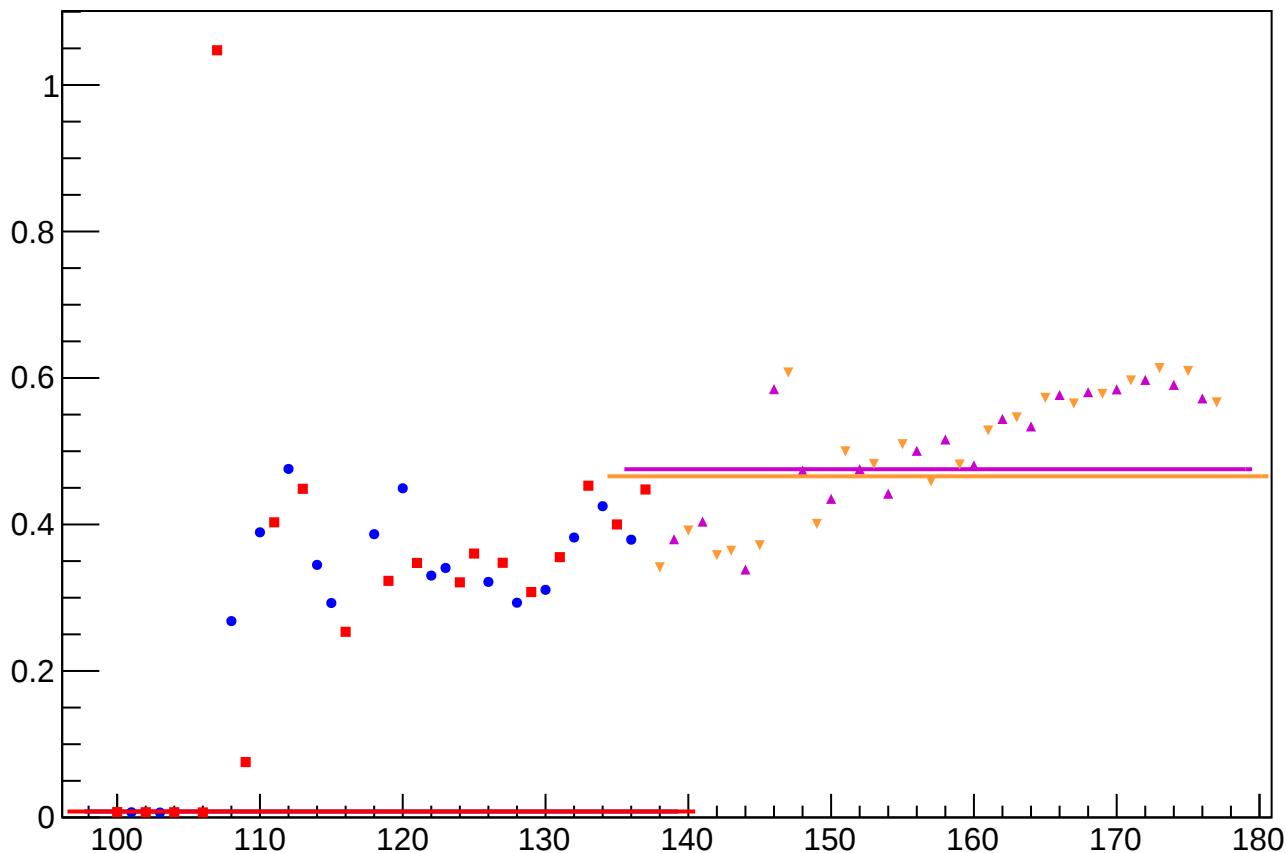
All: 0.554 $\pm$ 0.000 χ^2 /NDF: 10553884.1/75

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281 +/- 0.000 χ^2/NDF : 2512261599188.1/16
 Left Out: 148.923 +/- 0.000 χ^2/NDF : 63768024.7/20
 Right Out: 377.289 +/- 0.000 χ^2/NDF : 8279468194444.1/18
 Left In: 148.663 +/- 0.000 χ^2/NDF : 242456048.6/18
 All: 376.719 +/- 0.000 χ^2/NDF : 17541663952.1/39

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 9885759.8/16

Left Out: 0.466+/-0.000 χ^2/NDF : 1155639.9/20

Right Out: 0.008+/-0.000 χ^2/NDF : 9535410.6/18

Left In: 0.475+/-0.000 χ^2/NDF : 835317.1/18

Left: 0.470+/-0.000 χ^2/NDF : 1996977.0/39

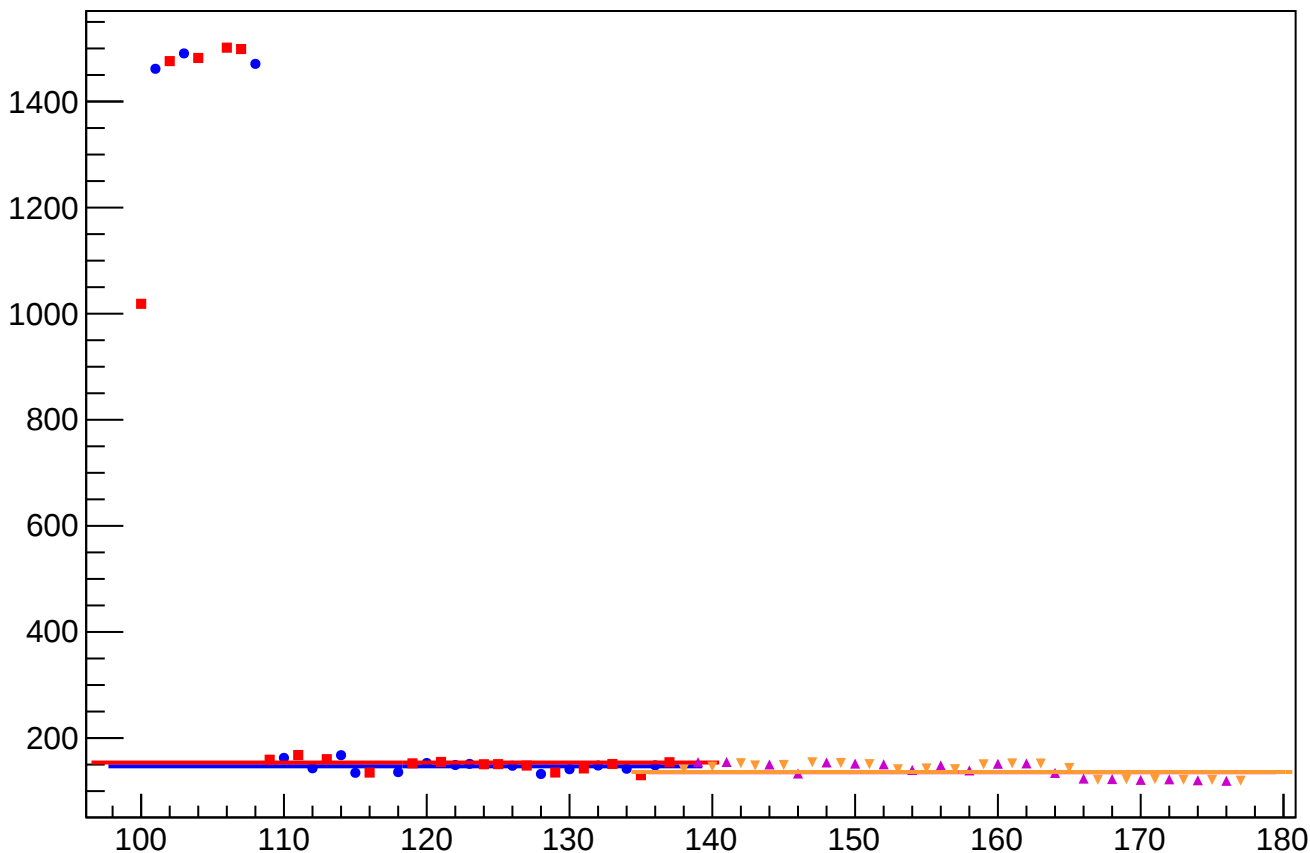
Right: 0.008+/-0.000 χ^2/NDF : 19421175.8/35

In: 0.010+/-0.000 χ^2/NDF : 37322715.0/35

Out: 0.010+/-0.000 χ^2/NDF : 39054056.0/39

All: 0.010+/-0.000 χ^2/NDF : 76376854.9/75

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 136.017+/-0.000 χ^2/NDF : 3672607345.4/20

Right Out: 153.887+/-0.000 χ^2/NDF : 33738118250.9/18

Left In: 135.663+/-0.000 χ^2/NDF : 3570240939.2/18

Left: 135.848+/-0.000 χ^2/NDF : 7244075294.4/39

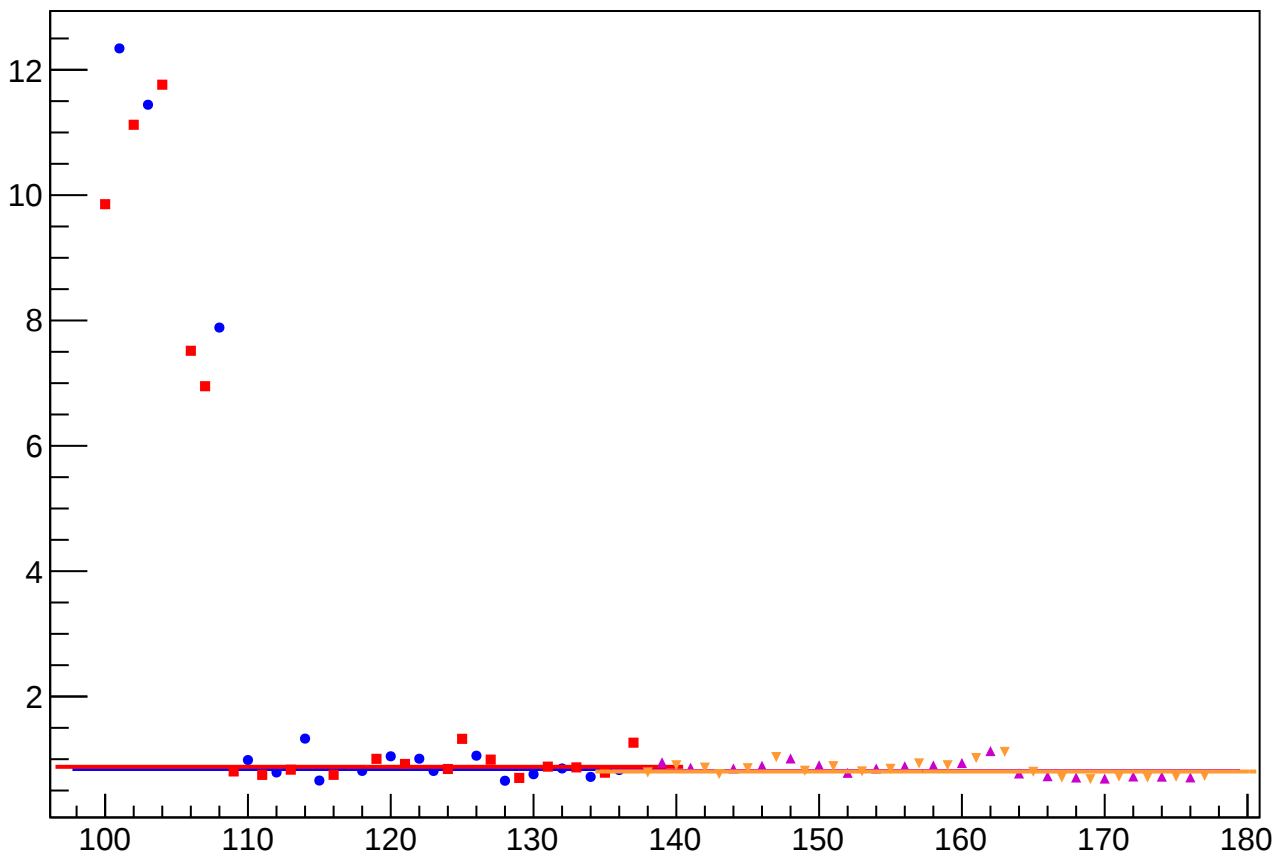
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 138.125+/-0.000 χ^2/NDF : 28430335685.2/35

Out: 139.698+/-0.000 χ^2/NDF : 38752337651.7/39

All: 138.938+/-0.000 χ^2/NDF : 67213405497.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.803+/-0.000 χ^2/NDF : 462590.0/20

Right Out: 0.878+/-0.000 χ^2/NDF : 2812500.6/18

Left In: 0.811+/-0.000 χ^2/NDF : 434048.7/18

Left: 0.807+/-0.000 χ^2/NDF : 897833.6/39

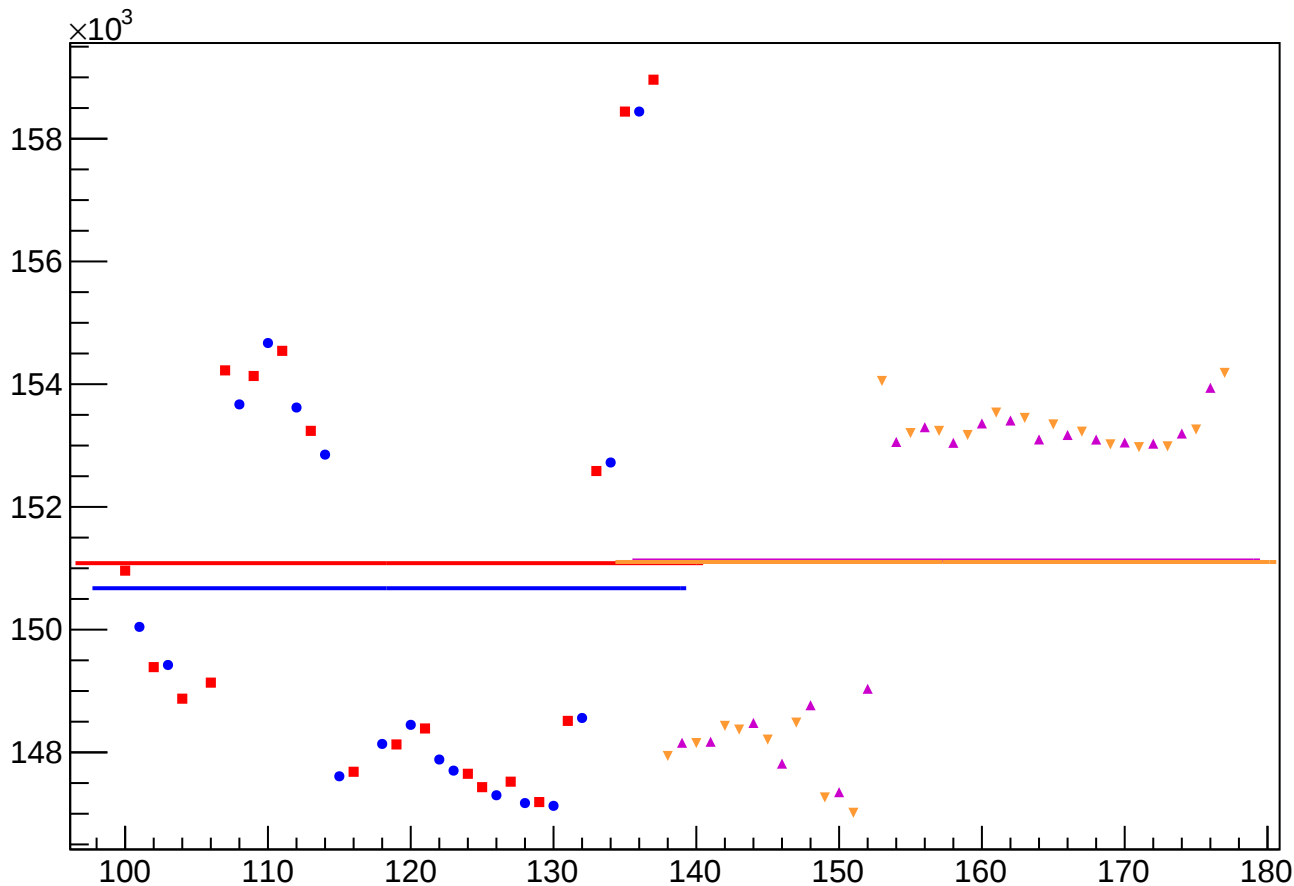
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.818+/-0.000 χ^2/NDF : 3113250.4/35

Out: 0.819+/-0.000 χ^2/NDF : 3322228.4/39

All: 0.819+/-0.000 χ^2/NDF : 6435482.5/75

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063

χ^2/NDF : 3309974859.4/16

Left: 151114.269 $\pm$ 0.037

χ^2/NDF : 4940893770.3/3

Left Out: 151102.525 $\pm$ 0.051

χ^2/NDF : 2844301902.3/20

Right: 150890.022 $\pm$ 0.043

χ^2/NDF : 6632946370.1/16

Right Out: 151083.268 $\pm$ 0.060

χ^2/NDF : 3300830370.5/18

In: 150937.749 $\pm$ 0.041

χ^2/NDF : 5436429139.4/35

Out: 151094.447 $\pm$ 0.039

χ^2/NDF : 6145192687.8/3

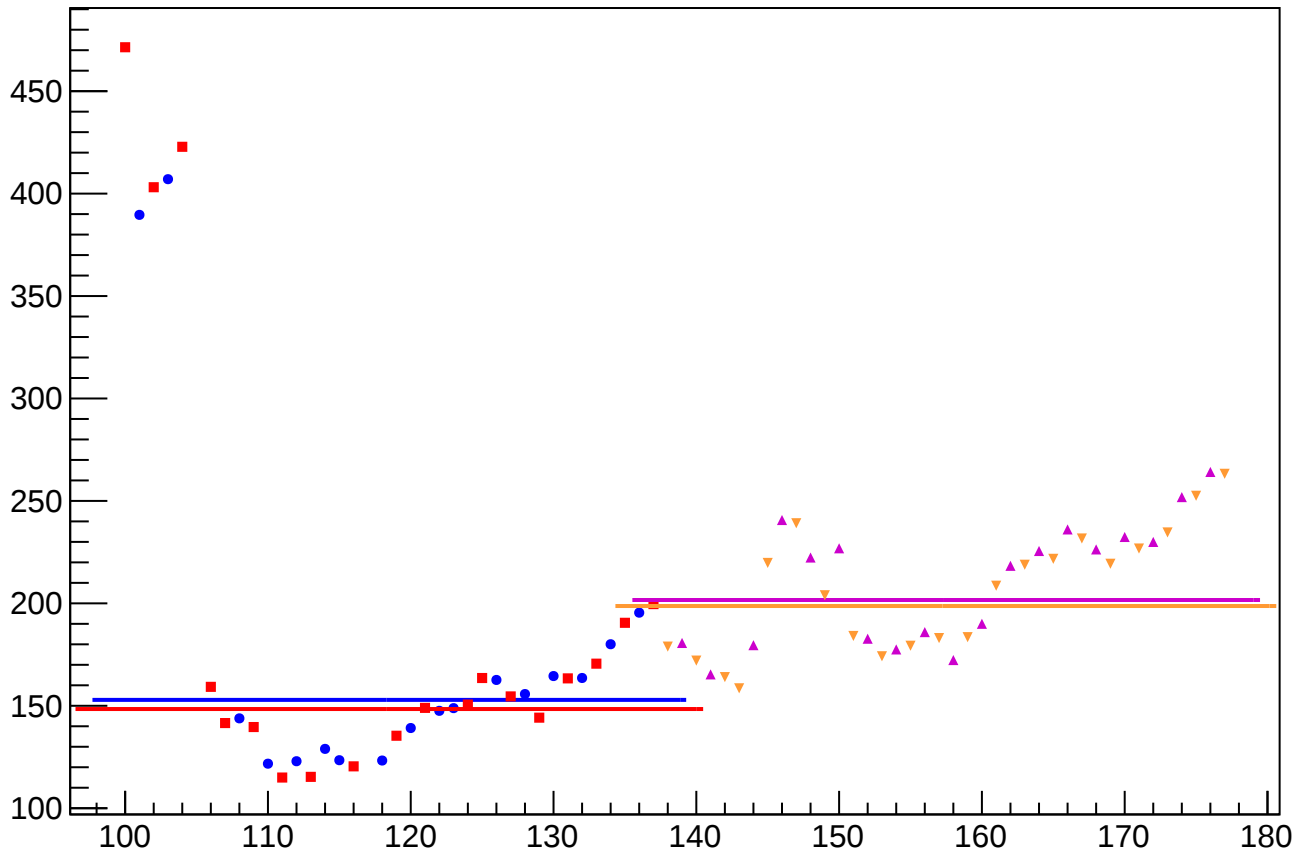
Left In: 151127.316 $\pm$ 0.053

χ^2/NDF : 2096478792.7/18

All: 151020.238 $\pm$ 0.028

χ^2/NDF : 115894015

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2/NDF : 1154088.7/16

Left Out: 198.697 $\pm$ 0.036 χ^2/NDF : 618371.1/20

Right Out: 148.418 $\pm$ 0.042 χ^2/NDF : 1191577.6/18

Left In: 201.636 $\pm$ 0.038 χ^2/NDF : 567759.9/18

Left: 200.090 $\pm$ 0.026 χ^2/NDF : 1189309.8/39

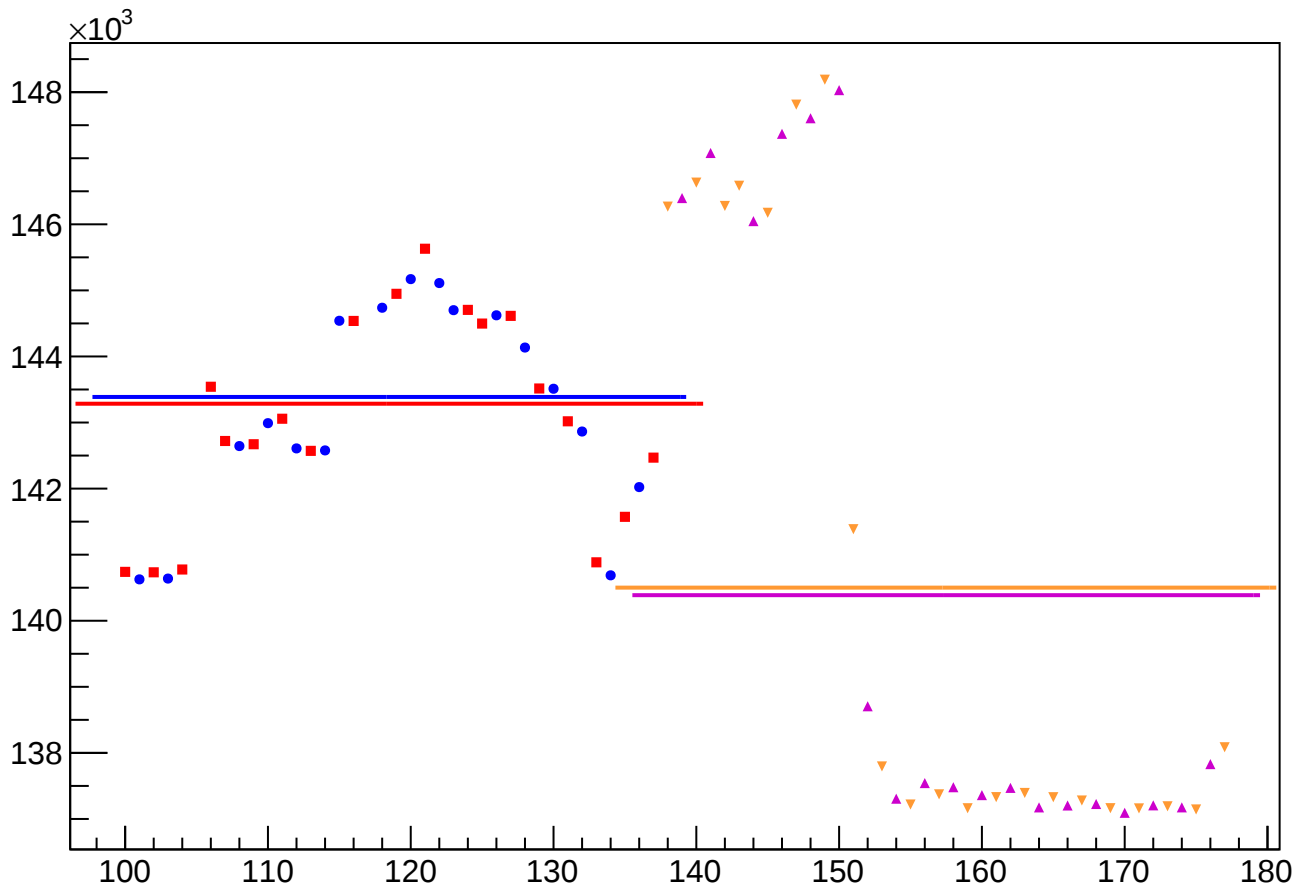
Right: 150.532 $\pm$ 0.031 χ^2/NDF : 2350963.4/35

In: 181.203 $\pm$ 0.029 χ^2/NDF : 2418425.0/35

Out: 177.606 $\pm$ 0.027 χ^2/NDF : 2633679.8/39

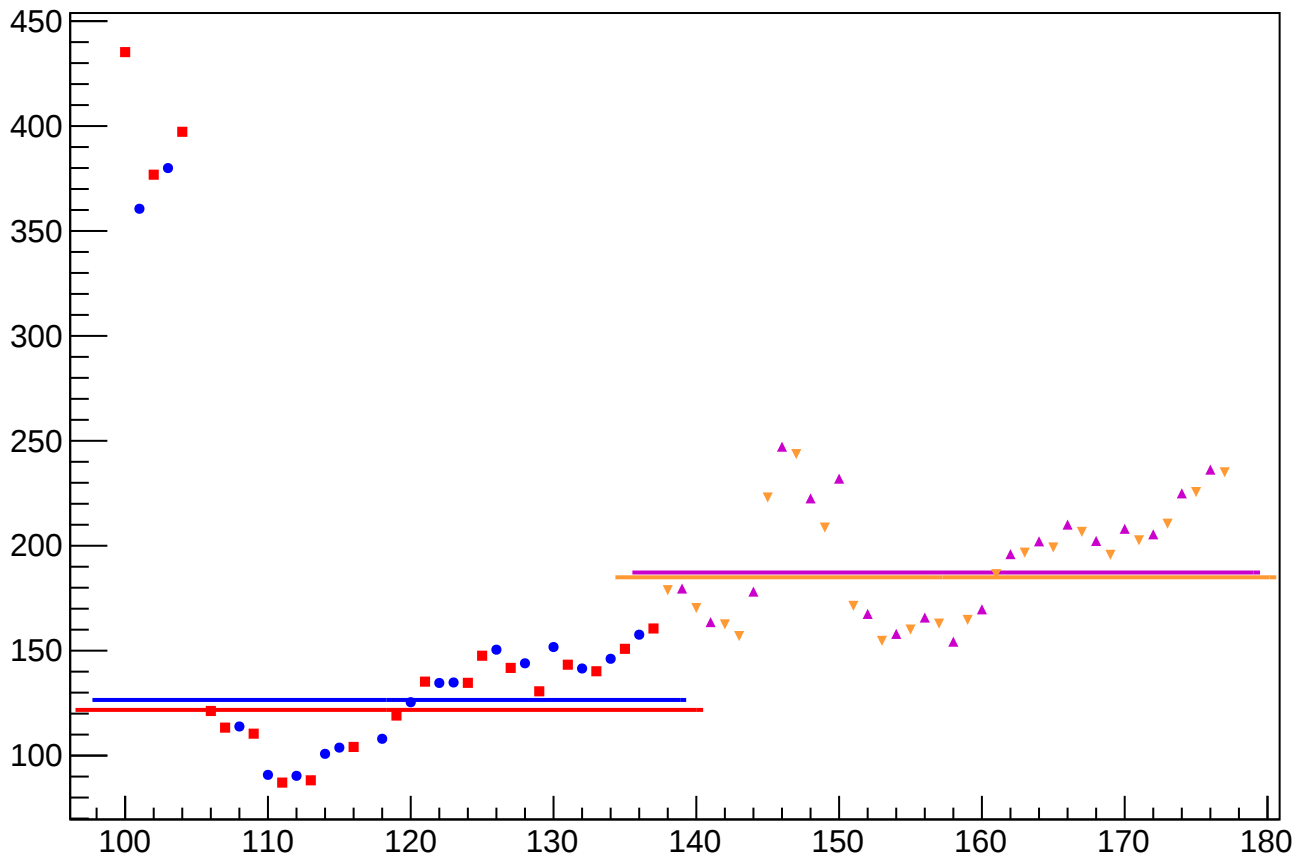
All: 179.309 $\pm$ 0.020 χ^2/NDF : 5060303.8/75

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 140447.104 $\pm$ 0.034	χ^2 /NDF: 16177846986.9
Left Out: 140501.307 $\pm$ 0.047	χ^2 /NDF: 8366888295.0/20	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: 141799.227 $\pm$ 0.036	χ^2 /NDF: 10043164975.8/3
Left In: 140387.042 $\pm$ 0.050	χ^2 /NDF: 7808182698.8/18	Out: 141839.128 $\pm$ 0.034	χ^2 /NDF: 10644556321.4
		All: 141820.388 $\pm$ 0.025	χ^2 /NDF: 206883665

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 184.958 $\pm$ 0.033 χ^2 /NDF: 576651.5/20

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 187.239 $\pm$ 0.035 χ^2 /NDF: 596472.0/18

Left: 186.040 $\pm$ 0.024 χ^2 /NDF: 1175335.9/39

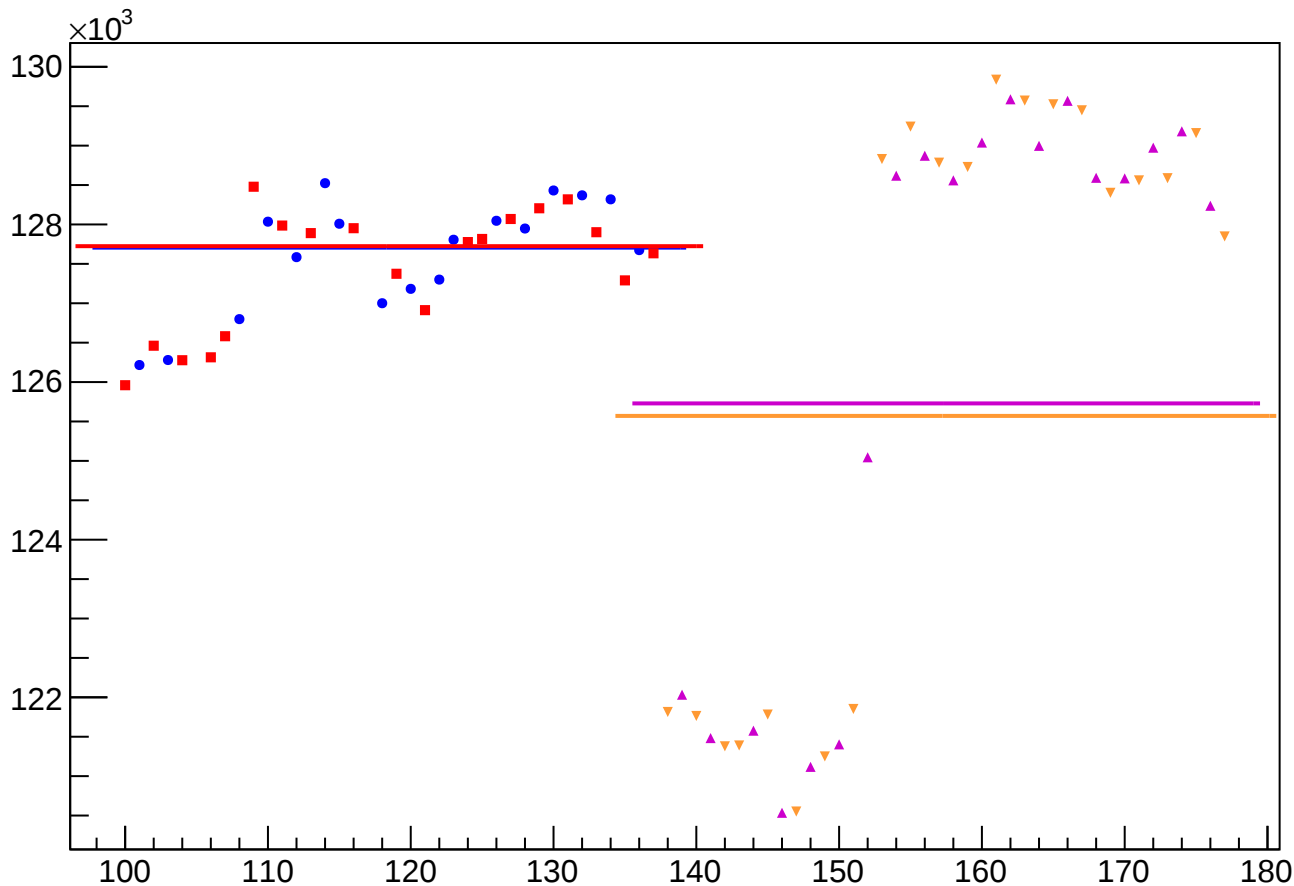
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 158.655 $\pm$ 0.026 χ^2 /NDF: 3442389.1/35

Out: 154.589 $\pm$ 0.024 χ^2 /NDF: 3760647.9/39

All: 156.498 $\pm$ 0.018 χ^2 /NDF: 7216437.3/75

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left: 125648.803 $\pm$ 0.033

χ^2 /NDF: 11932227609.3

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

Left Out: 125570.719 $\pm$ 0.047

χ^2 /NDF: 6348801381.7/20

In: 126517.802 $\pm$ 0.037

χ^2 /NDF: 6372523144.2/3

Right Out: 127724.256 $\pm$ 0.055

χ^2 /NDF: 112614317.2/18

Out: 126479.180 $\pm$ 0.035

χ^2 /NDF: 7363248261.7/3

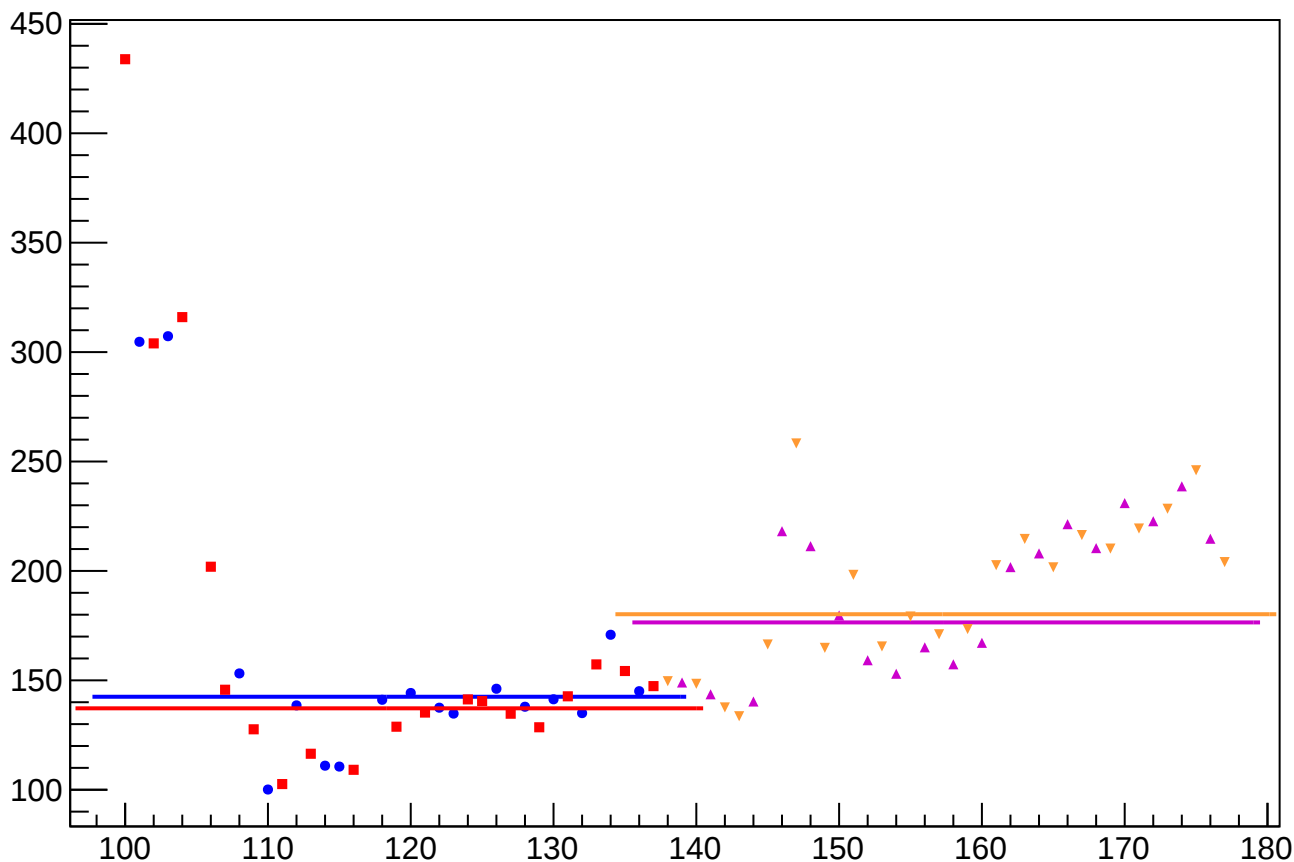
Left In: 125729.307 $\pm$ 0.047

χ^2 /NDF: 5577717983.9/18

All: 126497.820 $\pm$ 0.025

χ^2 /NDF: 137363454

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502+/-0.041 χ^2/NDF : 836263.7/16

Left Out: 180.215+/-0.033 χ^2/NDF : 960420.6/20

Right Out: 137.211+/-0.039 χ^2/NDF : 957317.1/18

Left In: 176.470+/-0.033 χ^2/NDF : 869087.7/18

Left: 178.371+/-0.023 χ^2/NDF : 1835872.3/39

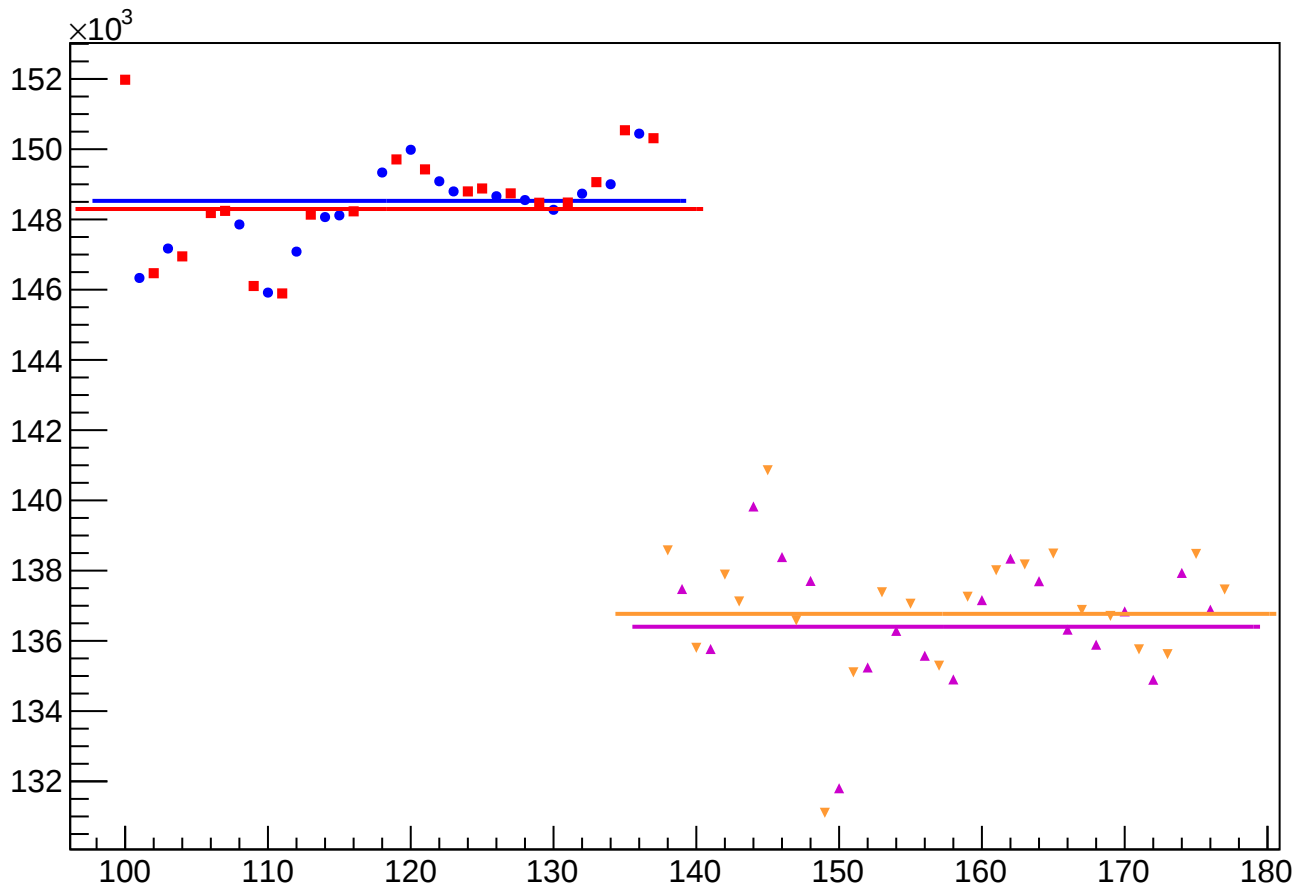
Right: 139.691+/-0.028 χ^2/NDF : 1802403.2/35

In: 162.922+/-0.026 χ^2/NDF : 2116903.2/35

Out: 162.074+/-0.025 χ^2/NDF : 2636940.7/39

All: 162.483+/-0.018 χ^2/NDF : 4754397.0/75

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136769.275 $\pm$ 0.069 χ^2 /NDF: 869111805.0/20

Right Out: 148297.126 $\pm$ 0.076 χ^2 /NDF: 293244556.5/18

Left In: 136402.152 $\pm$ 0.070 χ^2 /NDF: 673296870.4/18

Left: 136588.624 $\pm$ 0.049 χ^2 /NDF: 1556504585.4/3

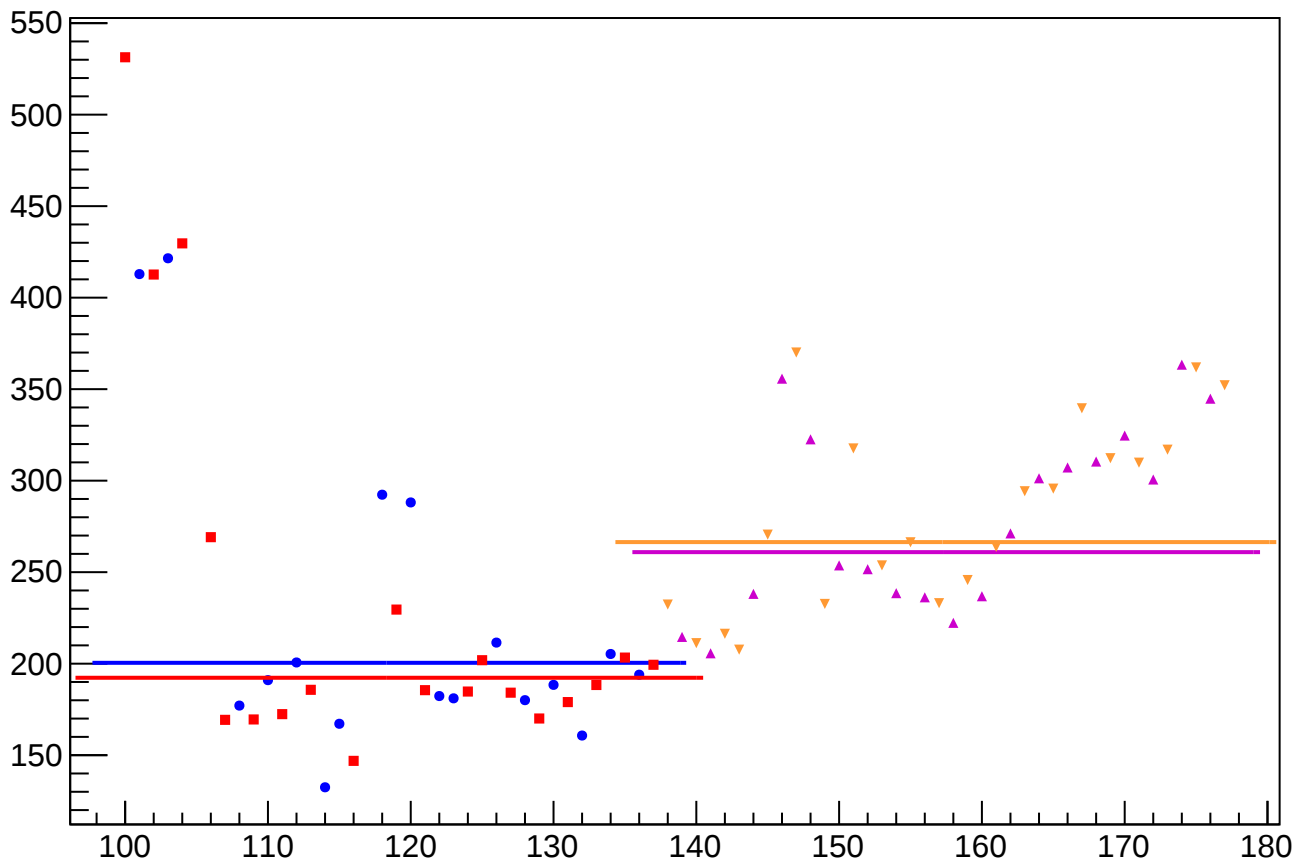
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141482.676 $\pm$ 0.053 χ^2 /NDF: 13569125363.5/3

Out: 141913.456 $\pm$ 0.051 χ^2 /NDF: 13766334984.0/3

All: 141706.657 $\pm$ 0.037 χ^2 /NDF: 273696523

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 266.438+/-0.049 χ^2/NDF : 932155.9/20

Right Out: 192.304+/-0.054 χ^2/NDF : 844504.1/18

Left In: 260.947+/-0.049 χ^2/NDF : 844609.1/18

Left: 263.736+/-0.035 χ^2/NDF : 1783071.3/39

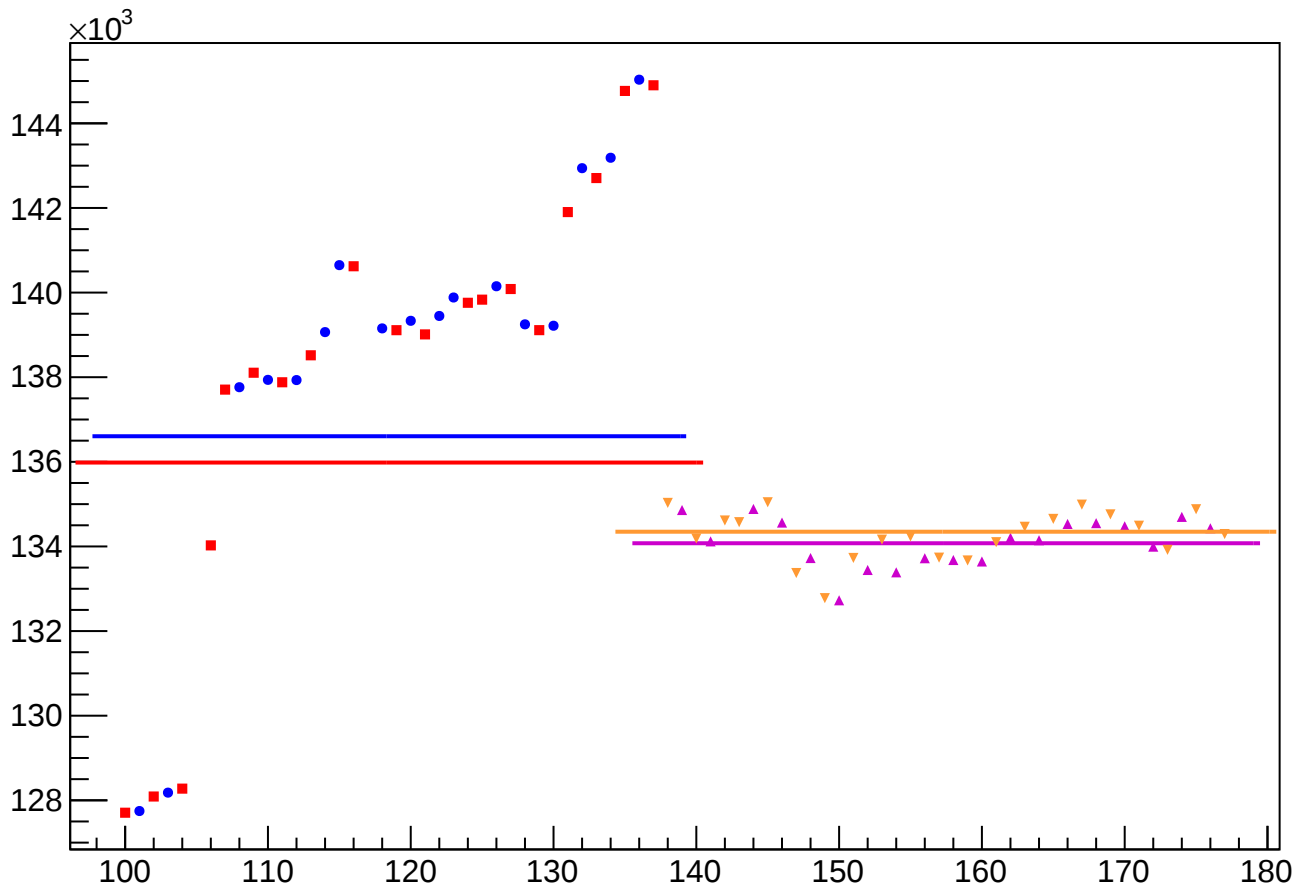
Right: 196.097+/-0.040 χ^2/NDF : 1791663.0/35

In: 235.611+/-0.038 χ^2/NDF : 2412135.1/35

Out: 233.357+/-0.036 χ^2/NDF : 2819154.1/39

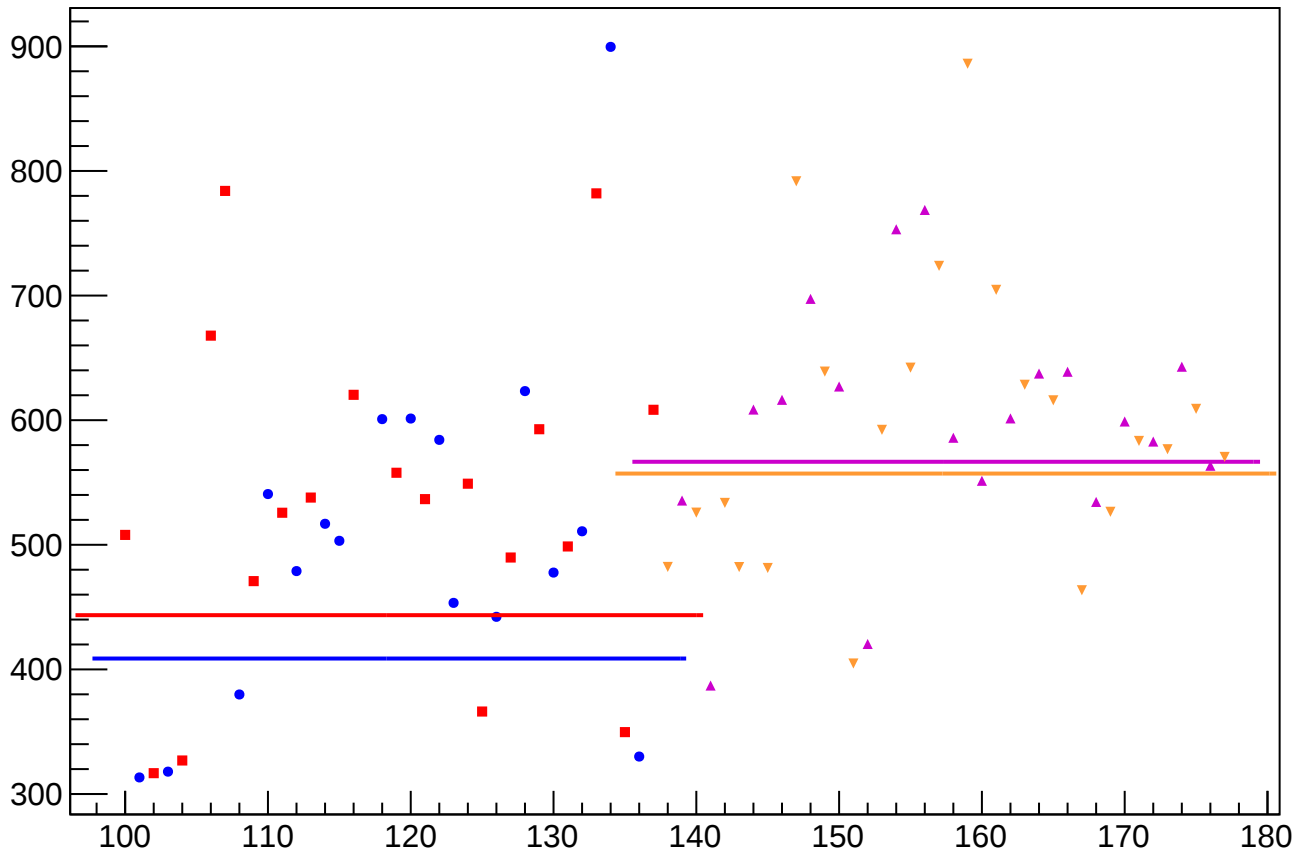
All: 234.439+/-0.026 χ^2/NDF : 5233162.0/75

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134221.287 $\pm$ 0.109	χ^2 /NDF: 27685236.3/39
Left Out: 134348.257 $\pm$ 0.150	χ^2 /NDF: 14311740.8/20	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/3
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135256.311 $\pm$ 0.117	χ^2 /NDF: 1622200546.1/35
Left In: 134075.710 $\pm$ 0.160	χ^2 /NDF: 11831773.8/18	Out: 135005.553 $\pm$ 0.116	χ^2 /NDF: 1144609403.1/3
		All: 135129.541 $\pm$ 0.082	χ^2 /NDF: 276912673.0/1

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729+/-0.121 χ^2/NDF : 823262.8/16

Left Out: 557.163+/-0.106 χ^2/NDF : 902257.7/20

Right Out: 443.521+/-0.129 χ^2/NDF : 917492.4/18

Left In: 566.618+/-0.113 χ^2/NDF : 768761.2/18

Left: 561.568+/-0.077 χ^2/NDF : 1674729.3/39

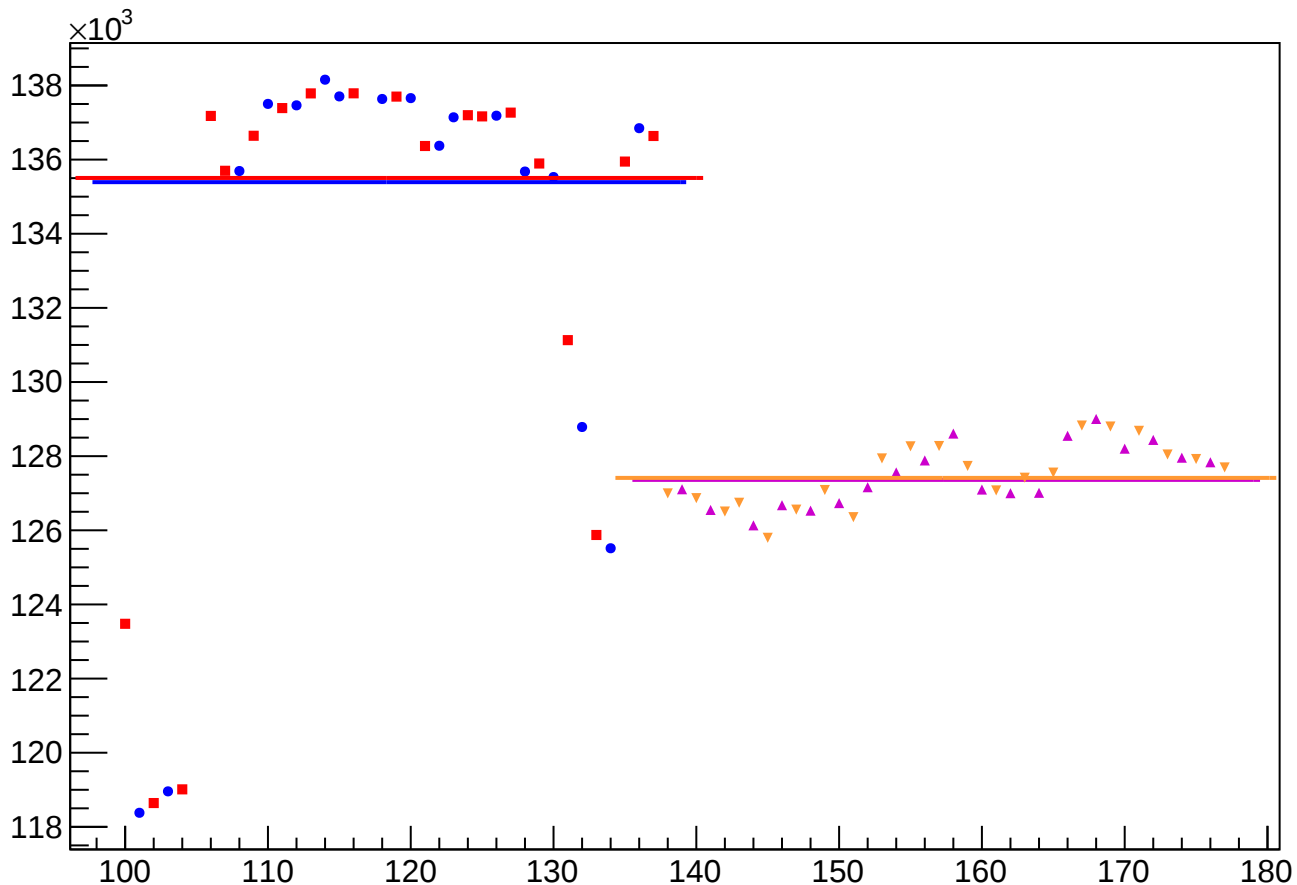
Right: 425.022+/-0.088 χ^2/NDF : 1779326.9/35

In: 492.909+/-0.083 χ^2/NDF : 2496444.0/35

Out: 511.466+/-0.082 χ^2/NDF : 2282477.7/39

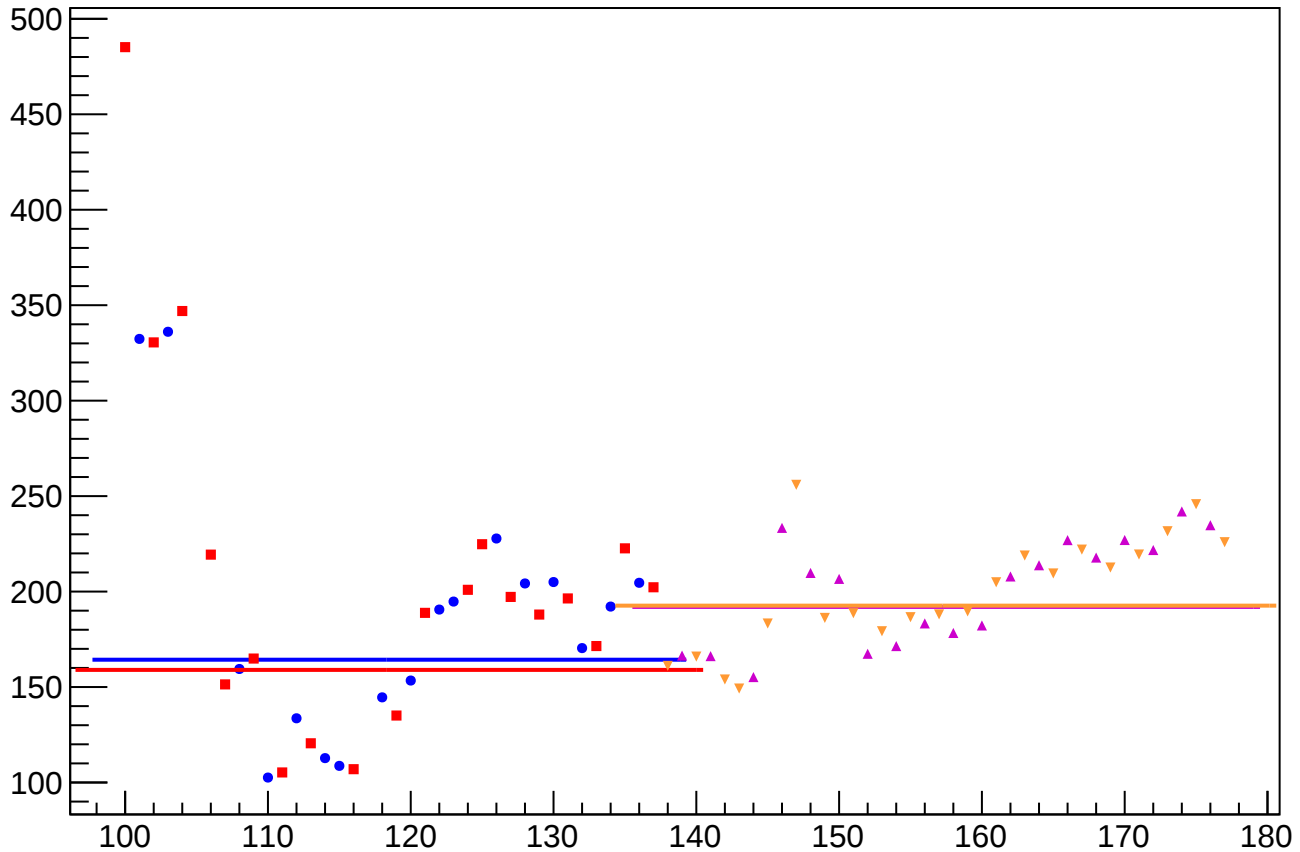
All: 502.290+/-0.058 χ^2/NDF : 4804296.4/75

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127387.787 $\pm$ 0.035	χ^2 /NDF: 532965354.6/39
Left Out: 127413.710 $\pm$ 0.049	χ^2 /NDF: 279805164.6/20	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130238.727 $\pm$ 0.041	χ^2 /NDF: 13713321080.4/3
Left In: 127360.062 $\pm$ 0.051	χ^2 /NDF: 252588851.2/18	Out: 130406.644 $\pm$ 0.039	χ^2 /NDF: 14959335878.1
		All: 130326.264 $\pm$ 0.028	χ^2 /NDF: 286814573

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311 $\pm$ 0.048 χ^2 /NDF: 1230487.8/16

Left Out: 192.631 $\pm$ 0.035 χ^2 /NDF: 621114.1/20

Right Out: 158.977 $\pm$ 0.046 χ^2 /NDF: 1384059.2/18

Left In: 191.966 $\pm$ 0.036 χ^2 /NDF: 555963.4/18

Left: 192.310 $\pm$ 0.025 χ^2 /NDF: 1177252.8/39

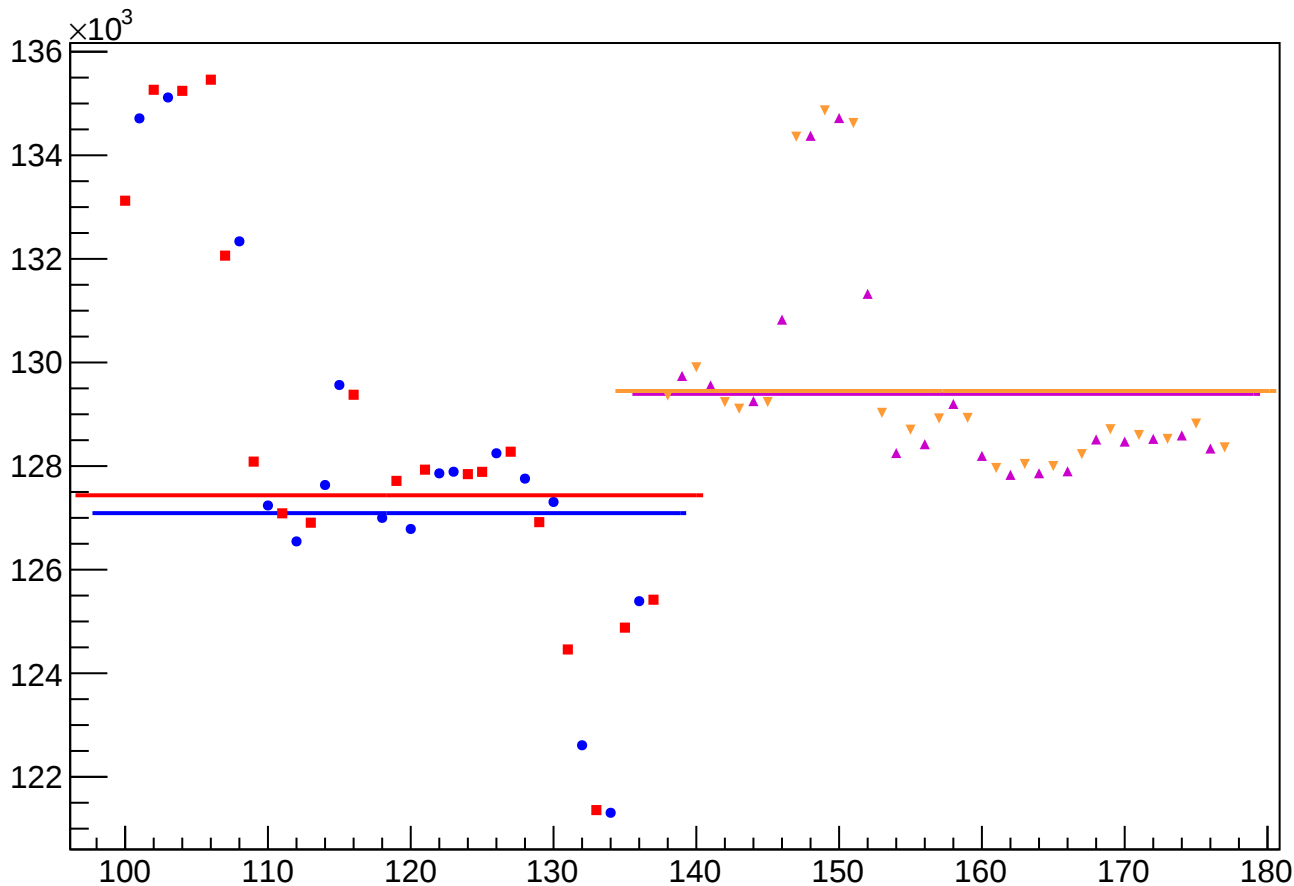
Right: 161.489 $\pm$ 0.033 χ^2 /NDF: 2621008.2/35

In: 182.054 $\pm$ 0.029 χ^2 /NDF: 1997042.5/35

Out: 180.182 $\pm$ 0.028 χ^2 /NDF: 2349393.4/39

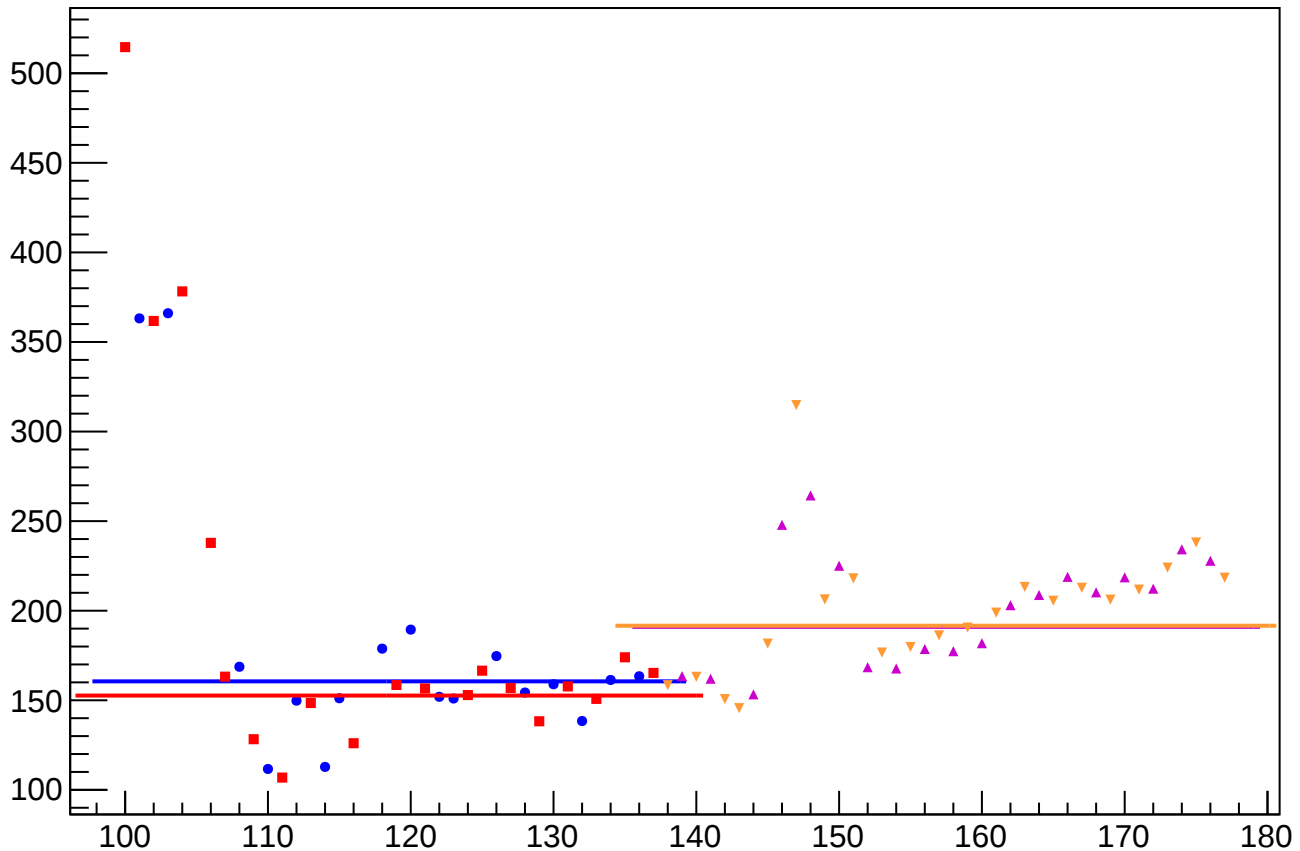
All: 181.078 $\pm$ 0.020 χ^2 /NDF: 4348622.8/75

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066	χ^2/NDF : 1717208780.6/16	Left: 129422.686+/-0.035	χ^2/NDF : 2546156162.5/3
Left Out: 129449.541+/-0.049	χ^2/NDF : 1394862701.8/20	Right: 127276.609+/-0.045	χ^2/NDF : 3810794624.3/3
Right Out: 127436.101+/-0.062	χ^2/NDF : 2079075713.9/18	In: 128540.083+/-0.040	χ^2/NDF : 3626598395.2/3
Left In: 129394.031+/-0.051	χ^2/NDF : 1150679688.6/18	Out: 128662.896+/-0.038	χ^2/NDF : 4126059334.6/3
		All: 128604.462+/-0.028	χ^2/NDF : 775750711

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564+/-0.047 χ^2/NDF : 942747.0/16

Left Out: 191.611+/-0.035 χ^2/NDF : 767255.3/20

Right Out: 152.629+/-0.044 χ^2/NDF : 1086504.4/18

Left In: 190.973+/-0.036 χ^2/NDF : 689280.1/18

Left: 191.302+/-0.025 χ^2/NDF : 1456697.8/39

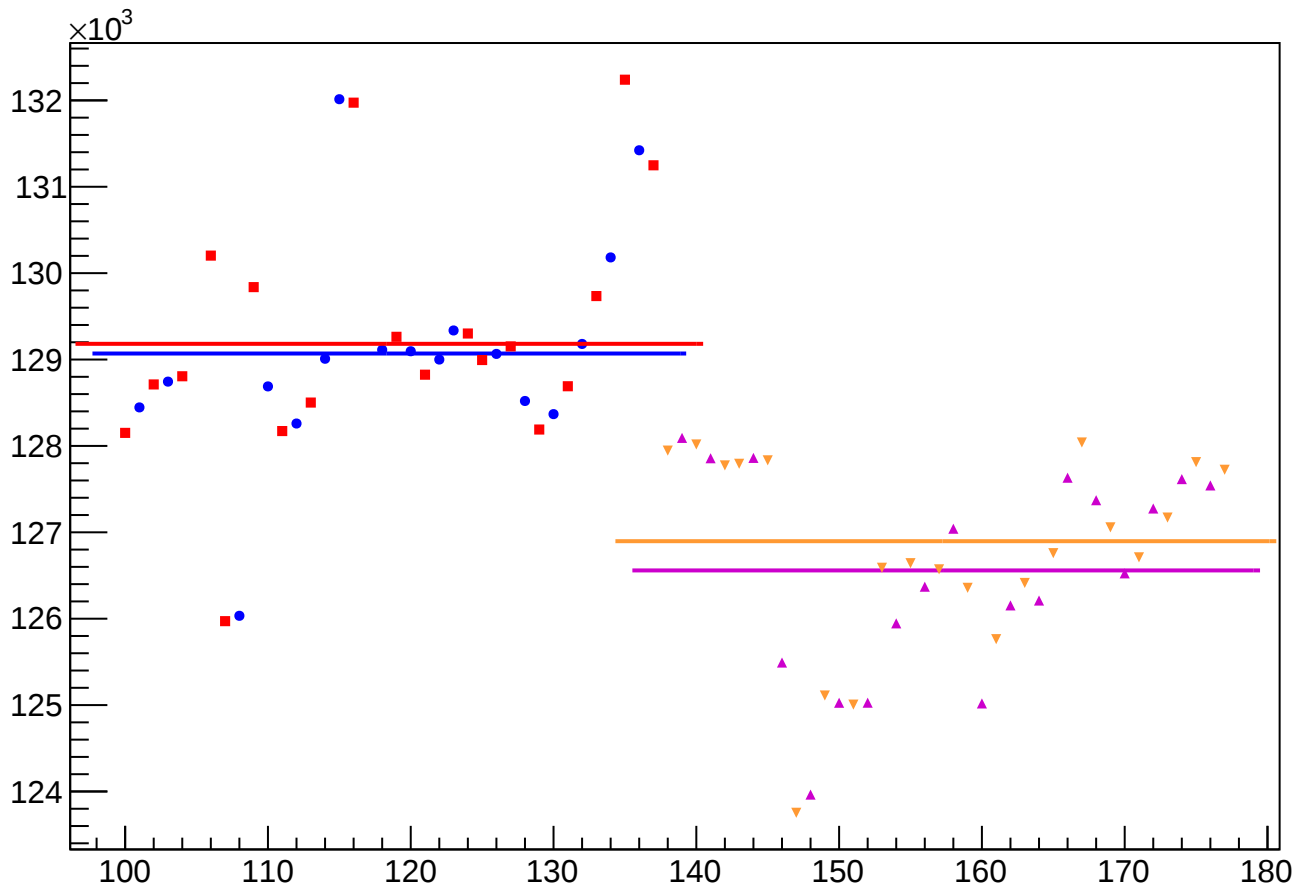
Right: 156.301+/-0.032 χ^2/NDF : 2044640.1/35

In: 179.695+/-0.029 χ^2/NDF : 1896684.3/35

Out: 176.381+/-0.027 χ^2/NDF : 2342656.3/39

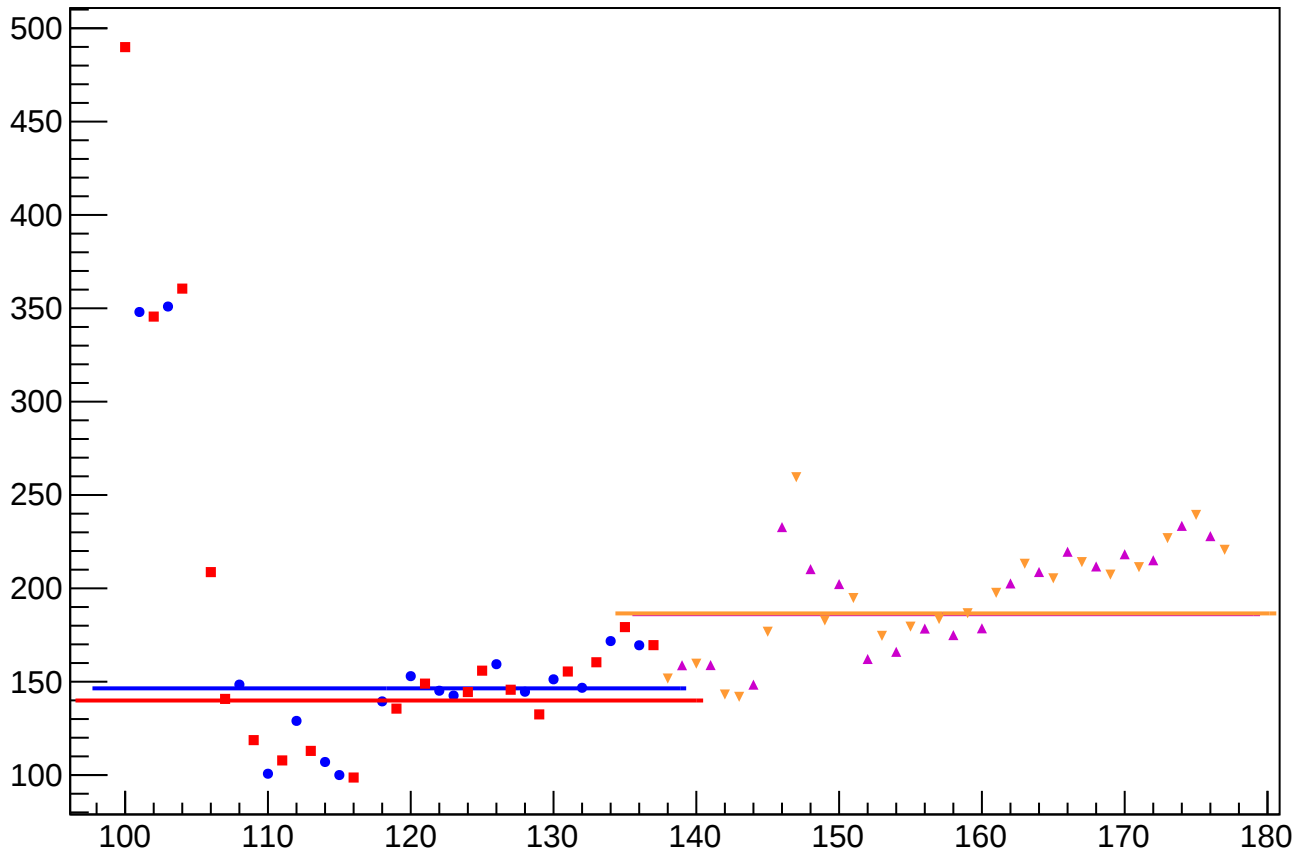
All: 177.958+/-0.020 χ^2/NDF : 4246402.9/75

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060	χ^2 /NDF: 476692316.5/16	Left: 126733.722 $\pm$ 0.034	χ^2 /NDF: 1095938972.5/3
Left Out: 126897.244 $\pm$ 0.048	χ^2 /NDF: 488779481.2/20	Right: 129129.710 $\pm$ 0.041	χ^2 /NDF: 1104150743.5/3
Right Out: 129181.887 $\pm$ 0.056	χ^2 /NDF: 625597399.6/18	In: 127572.719 $\pm$ 0.038	χ^2 /NDF: 2097881980.7/3
Left In: 126558.807 $\pm$ 0.050	χ^2 /NDF: 583018648.7/18	Out: 127860.239 $\pm$ 0.036	χ^2 /NDF: 2074089383.7/3
		All: 127723.481 $\pm$ 0.026	χ^2 /NDF: 420162111

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 186.573 $\pm$ 0.034 χ^2 /NDF: 729746.1/20

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 186.162 $\pm$ 0.035 χ^2 /NDF: 606968.5/18

Left: 186.375 $\pm$ 0.024 χ^2 /NDF: 1336785.9/39

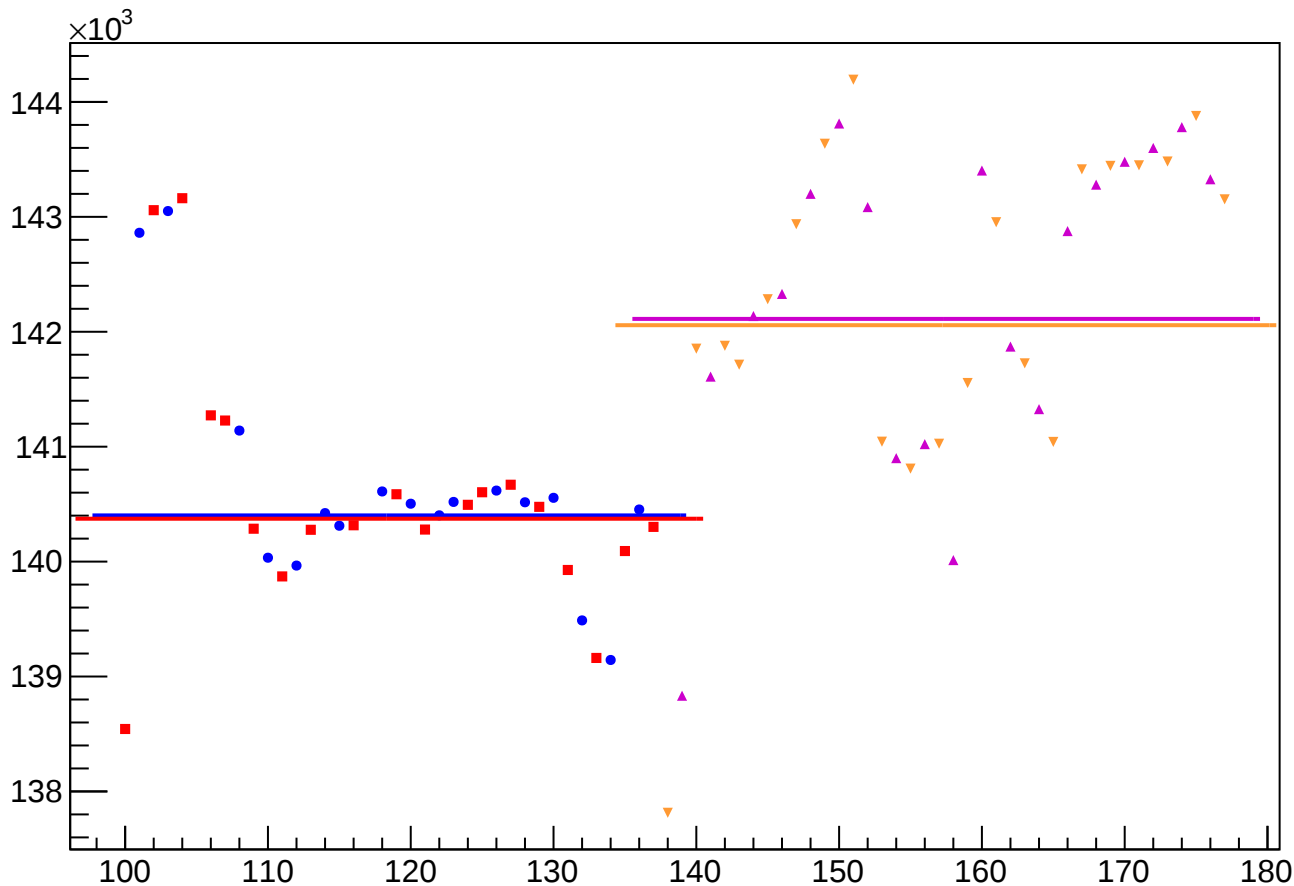
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 170.121 $\pm$ 0.027 χ^2 /NDF: 2191487.9/35

Out: 166.912 $\pm$ 0.026 χ^2 /NDF: 2733398.4/39

All: 168.439 $\pm$ 0.019 χ^2 /NDF: 4932270.3/75

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2/NDF : 88071774.7/16

Left Out: 142057.166 $\pm$ 0.055

χ^2/NDF : 789368381.0/20

Right Out: 140373.163 $\pm$ 0.060

χ^2/NDF : 99854533.3/18

Left In: 142111.975 $\pm$ 0.057

χ^2/NDF : 620974107.5/18

Left: 142083.736 $\pm$ 0.040

χ^2/NDF : 1410822287.9/3

Right: 140386.544 $\pm$ 0.044

χ^2/NDF : 188034057.1/3

In: 141363.186 $\pm$ 0.043

χ^2/NDF : 1105983934.4/3

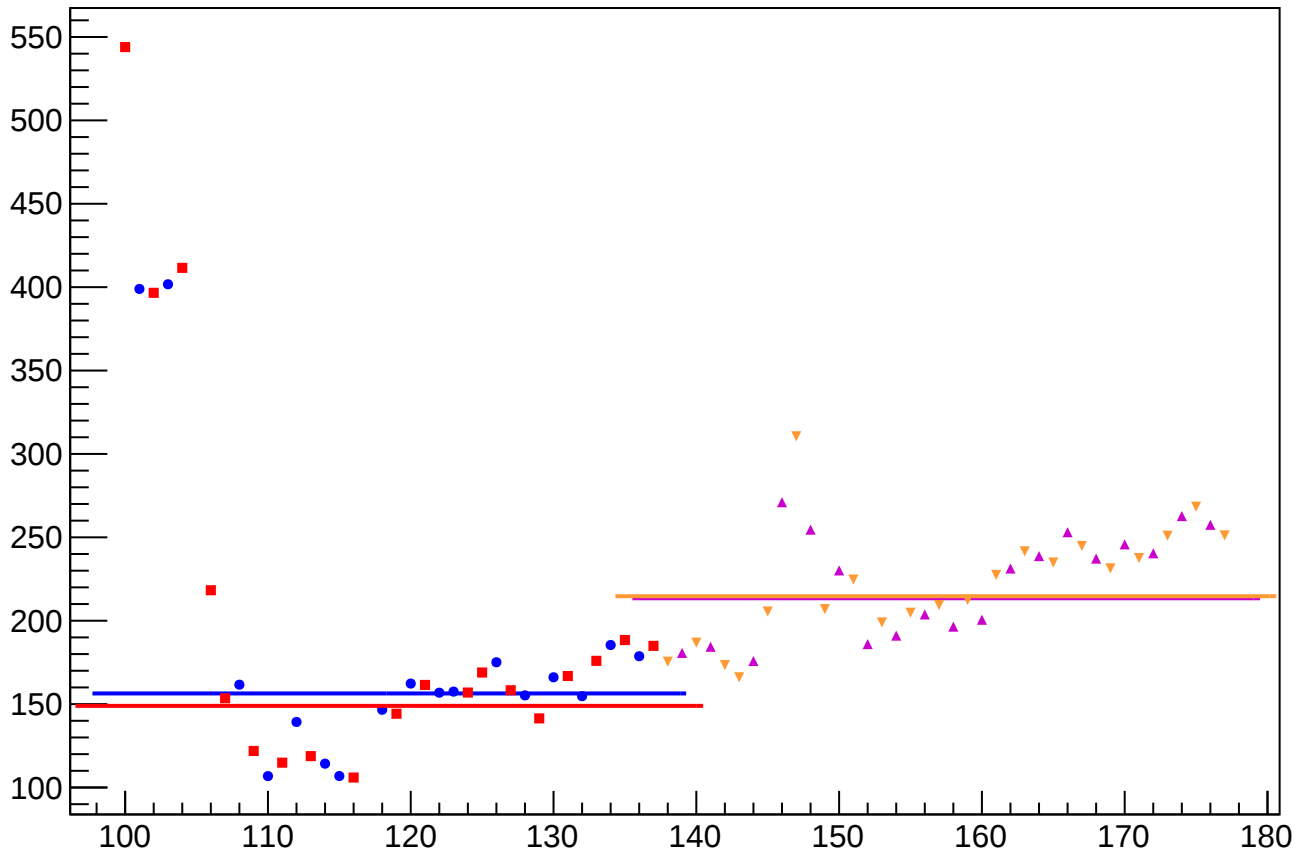
Out: 141284.763 $\pm$ 0.041

χ^2/NDF : 1317777188.1/3

All: 141322.044 $\pm$ 0.029

χ^2/NDF : 242554058

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394+/-0.046 χ^2/NDF : 1154804.2/16

Left Out: 214.700+/-0.039 χ^2/NDF : 638911.0/20

Right Out: 148.949+/-0.042 χ^2/NDF : 1307651.5/18

Left In: 213.460+/-0.040 χ^2/NDF : 567035.9/18

Left: 214.099+/-0.028 χ^2/NDF : 1206437.5/39

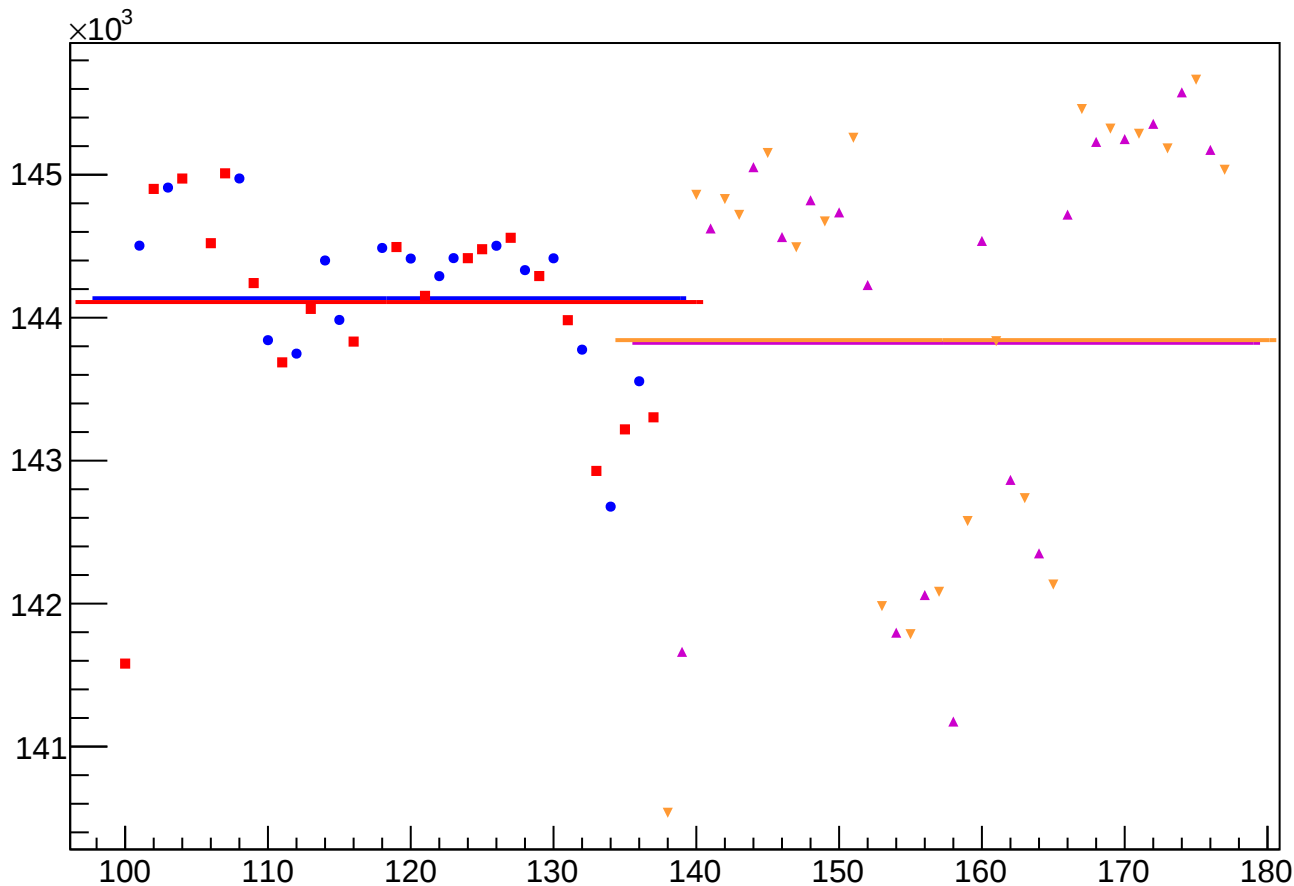
Right: 152.402+/-0.031 χ^2/NDF : 2476807.4/35

In: 188.471+/-0.030 χ^2/NDF : 2606029.8/35

Out: 184.542+/-0.029 χ^2/NDF : 3253180.0/39

All: 186.410+/-0.021 χ^2/NDF : 5868143.0/75

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left: 143834.077 $\pm$ 0.039

χ^2 /NDF: 1501479538.9/3

Left Out: 143843.105 $\pm$ 0.055

χ^2 /NDF: 824468038.1/20

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

In: 143955.224 $\pm$ 0.043

χ^2 /NDF: 736672523.6/35

Out: 143960.410 $\pm$ 0.041

χ^2 /NDF: 900094058.1/39

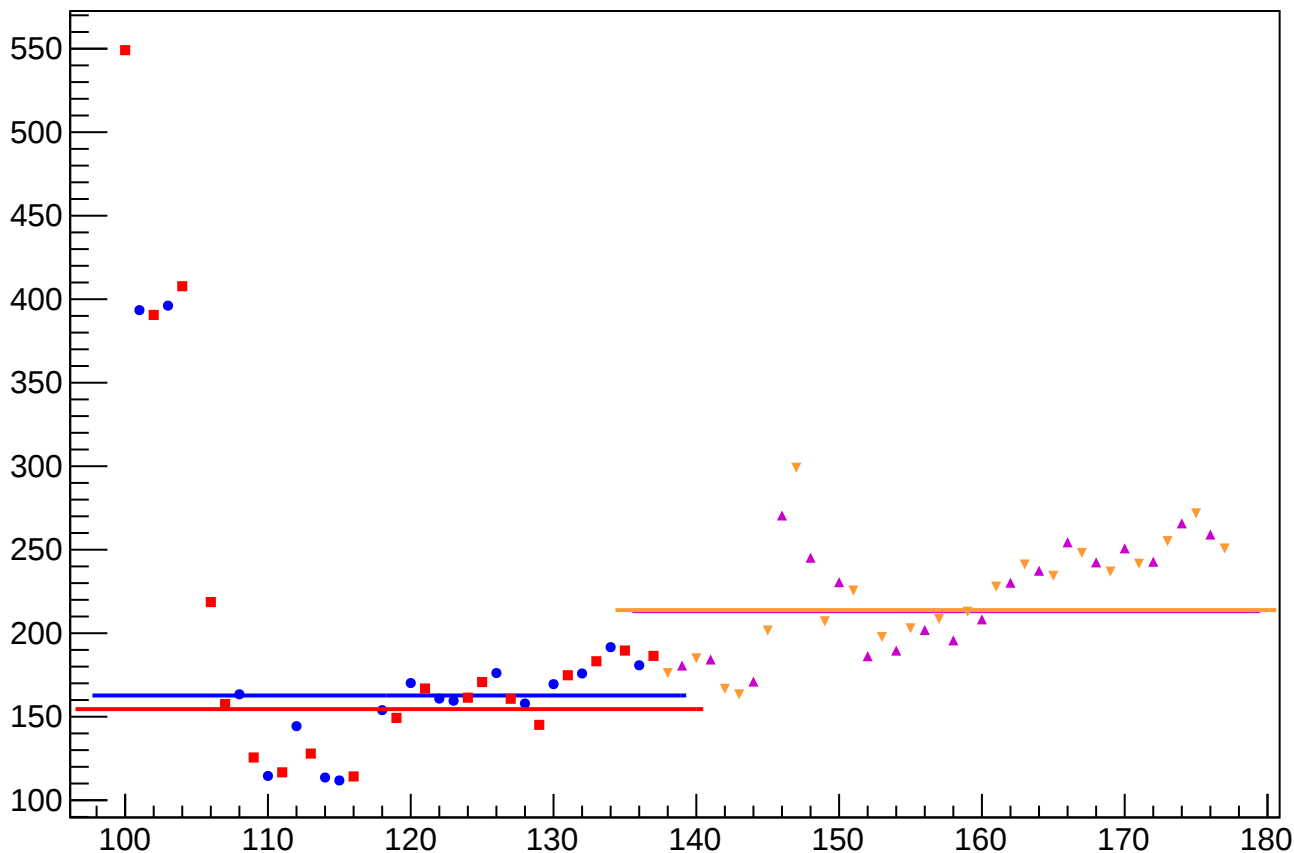
Left In: 143824.418 $\pm$ 0.057

χ^2 /NDF: 676955513.6/18

All: 143957.952 $\pm$ 0.030

χ^2 /NDF: 163677414

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2 /NDF: 1066482.0/16

Left Out: 213.843 $\pm$ 0.039 χ^2 /NDF:690172.8/20

Right Out: 154.547 $\pm$ 0.044 χ^2 /NDF: 1217495.9/18

Left In: 213.203 $\pm$ 0.040 χ^2 /NDF:603657.5/18

Left: 213.534 $\pm$ 0.028 χ^2 /NDF: 1293961.8/39

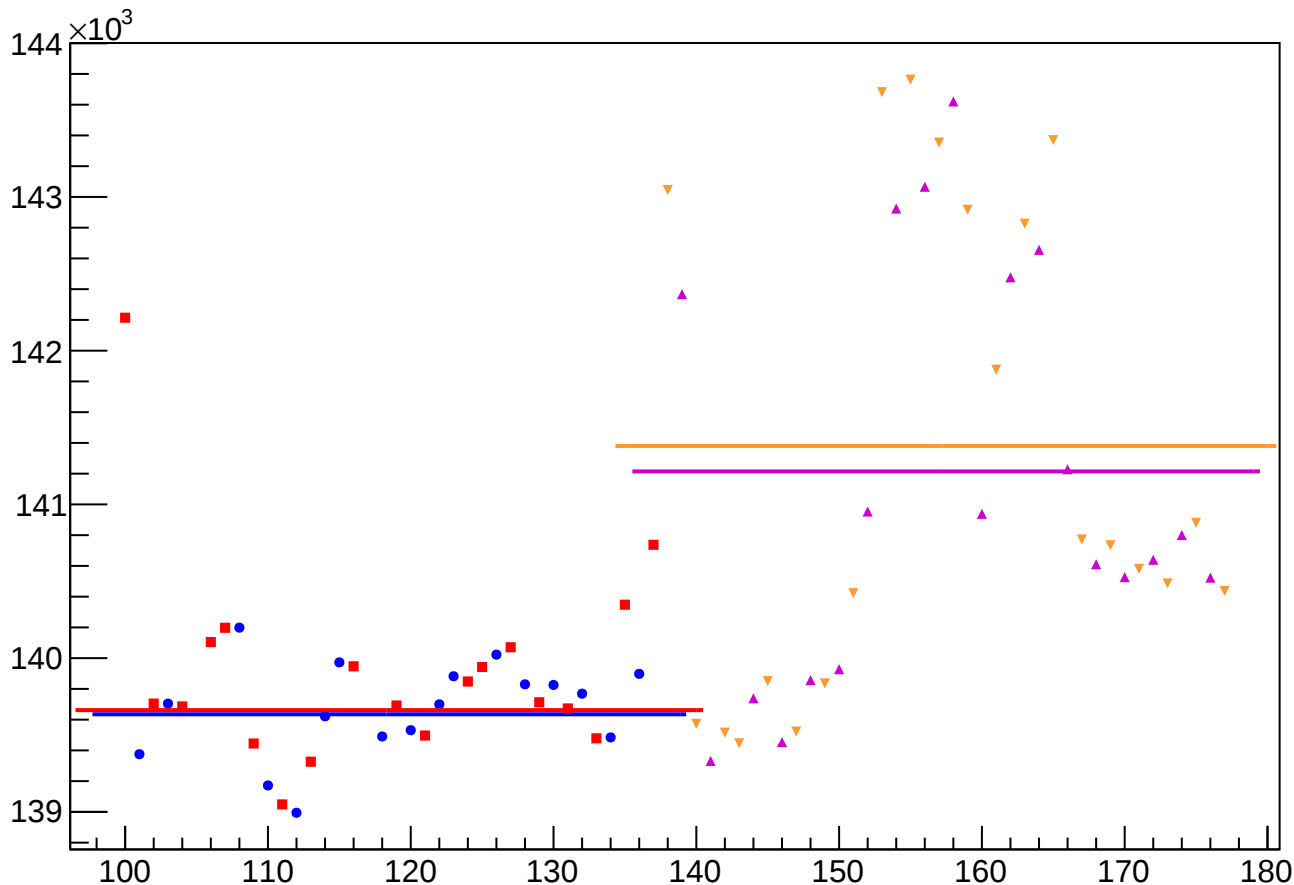
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 192.015 $\pm$ 0.031 χ^2 /NDF:2333812.9/35

Out: 187.724 $\pm$ 0.029 χ^2 /NDF:2935605.8/39

All: 189.758 $\pm$ 0.021 χ^2 /NDF: 5279770.5/75

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700 $\pm$ 0.068

χ^2 /NDF: 24844912.0/16

Left Out: 141379.807 $\pm$ 0.057

χ^2 /NDF: 757160353.2/20

Right Out: 139661.970 $\pm$ 0.063

χ^2 /NDF: 38372985.0/18

Left In: 141214.549 $\pm$ 0.058

χ^2 /NDF: 538222243.2/18

Left: 141299.278 $\pm$ 0.041

χ^2 /NDF: 1299517419.2/3

Right: 139649.322 $\pm$ 0.046

χ^2 /NDF: 63304699.0/35

In: 140544.129 $\pm$ 0.044

χ^2 /NDF: 875840124.2/35

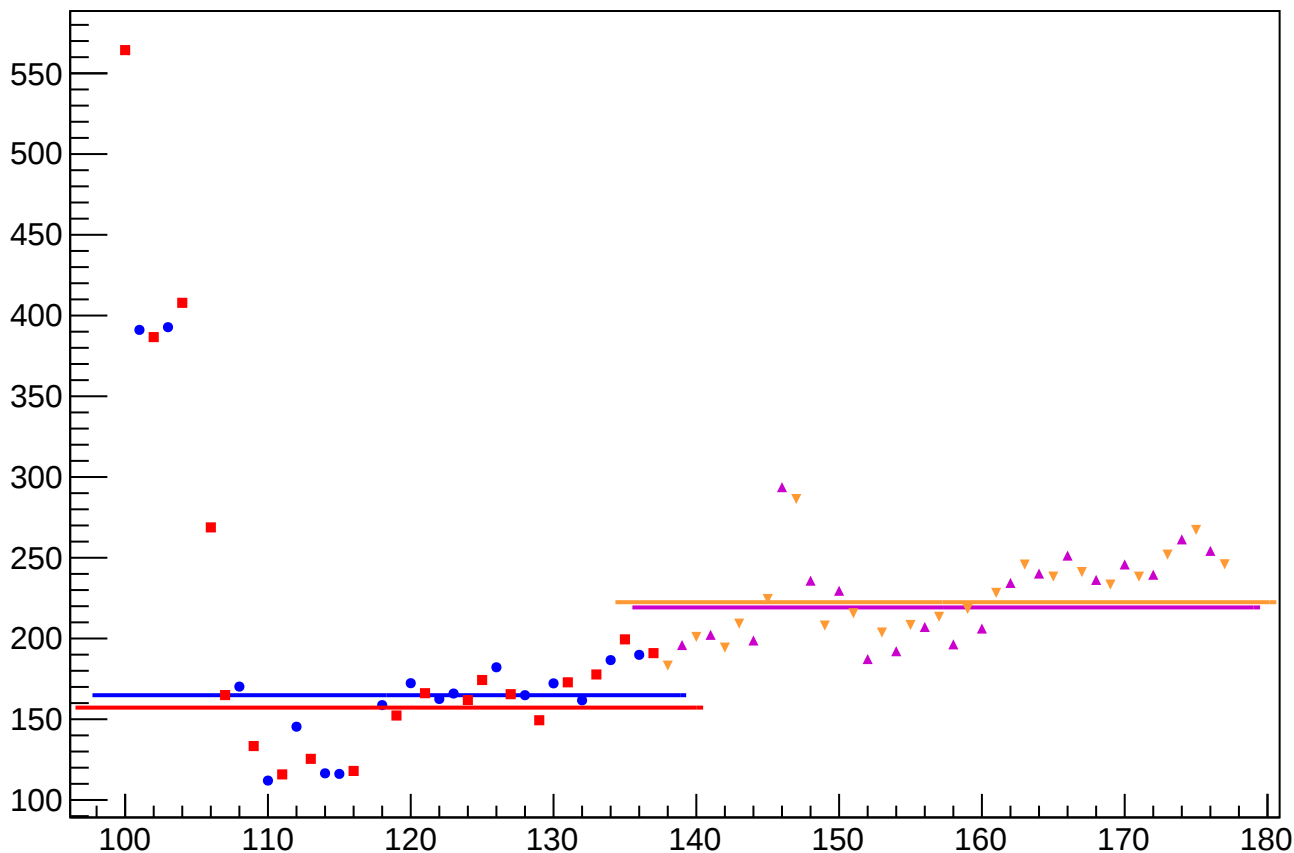
Out: 140611.064 $\pm$ 0.042

χ^2 /NDF: 1205840127.9/3

All: 140579.133 $\pm$ 0.030

χ^2 /NDF: 208288222

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2/NDF : 1066270.8/16

Left Out: 222.478 $\pm$ 0.040 χ^2/NDF :335678.3/20

Right Out: 157.207 $\pm$ 0.045 χ^2/NDF : 1245030.9/18

Left In: 219.239 $\pm$ 0.041 χ^2/NDF :408870.7/18

Left: 220.899 $\pm$ 0.029 χ^2/NDF : 747726.9/39

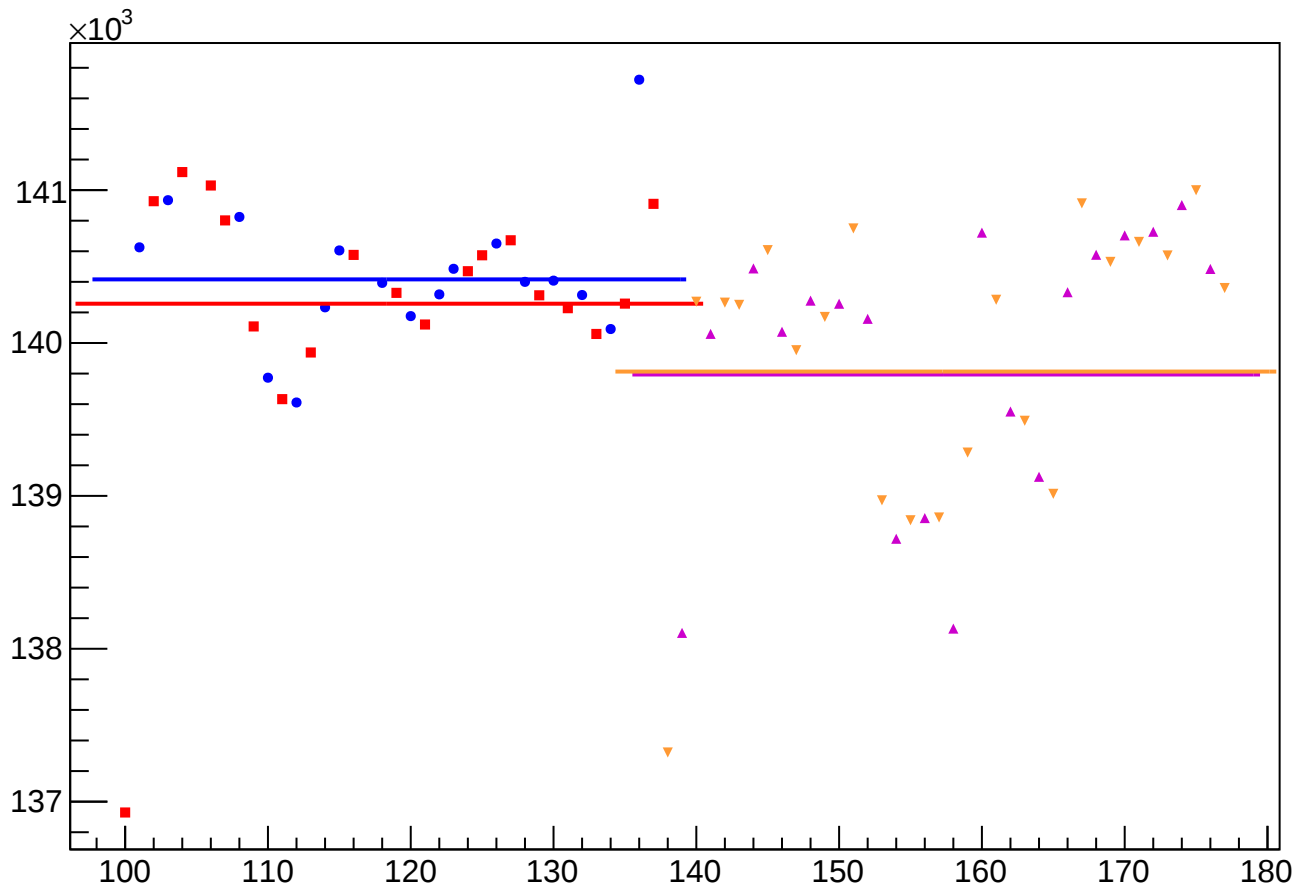
Right: 160.768 $\pm$ 0.033 χ^2/NDF : 2325060.5/35

In: 196.173 $\pm$ 0.031 χ^2/NDF :2215588.0/35

Out: 193.269 $\pm$ 0.030 χ^2/NDF :2765421.2/39

All: 194.654 $\pm$ 0.022 χ^2/NDF : 4985533.8/75

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068 χ^2/NDF : 69975821.3/16

Left Out: 139813.141 $\pm$ 0.054 χ^2/NDF : 322226120.0/20

Right Out: 140256.992 $\pm$ 0.063 χ^2/NDF : 38063371.4/18

Left In: 139793.993 $\pm$ 0.056 χ^2/NDF : 269758614.7/18

Left: 139803.899 $\pm$ 0.039 χ^2/NDF : 592045813.7/39

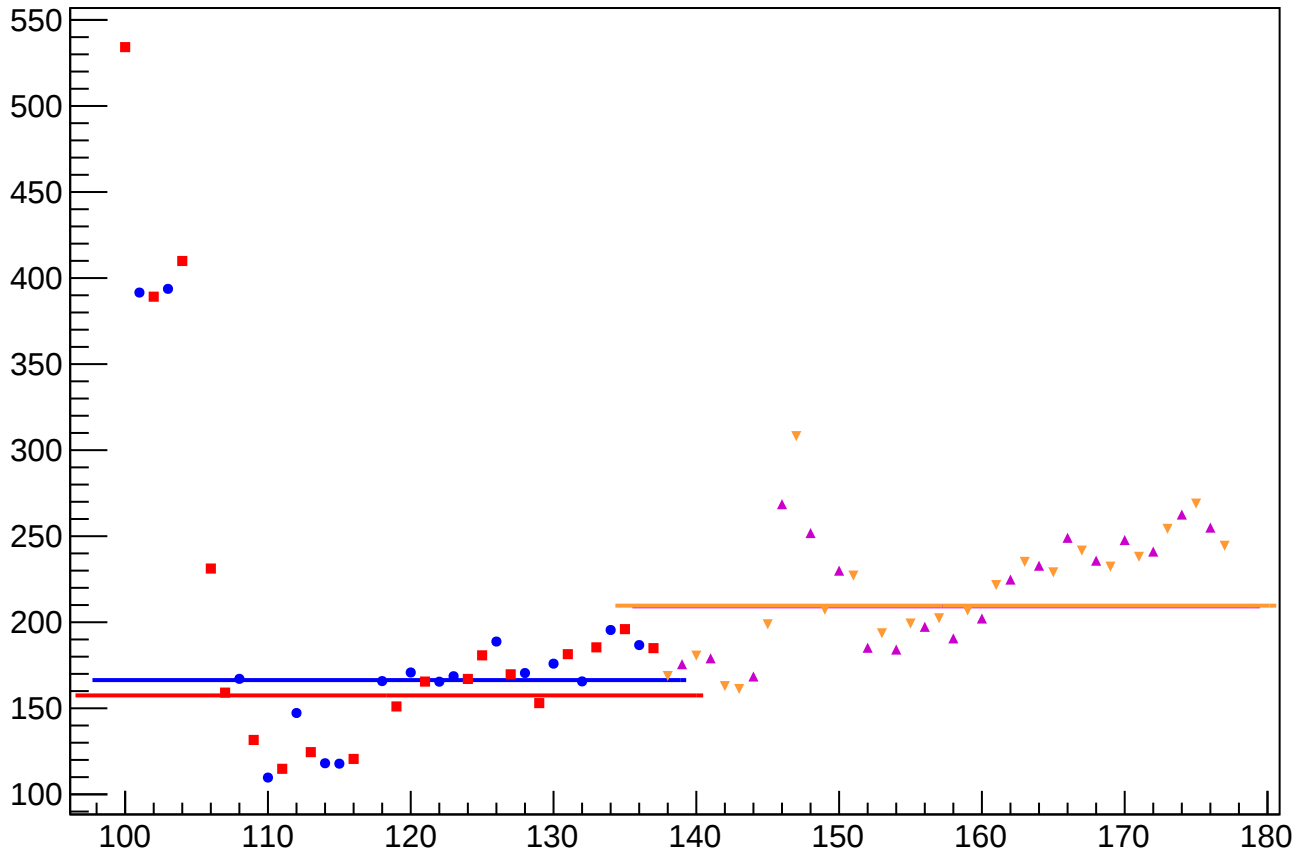
Right: 140330.188 $\pm$ 0.046 χ^2/NDF : 110959487.0/3

In: 140042.208 $\pm$ 0.043 χ^2/NDF : 389451792.8/35

Out: 139999.931 $\pm$ 0.041 χ^2/NDF : 388905975.4/39

All: 140019.945 $\pm$ 0.030 χ^2/NDF : 778862060

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 +/- 0.048 χ^2/NDF : 1080964.8/16

Left Out: 209.643 +/- 0.038 χ^2/NDF : 749301.2/20

Right Out: 157.475 +/- 0.045 χ^2/NDF : 1229886.8/18

Left In: 209.253 +/- 0.039 χ^2/NDF : 649495.1/18

Left: 209.455 +/- 0.027 χ^2/NDF : 1398847.1/39

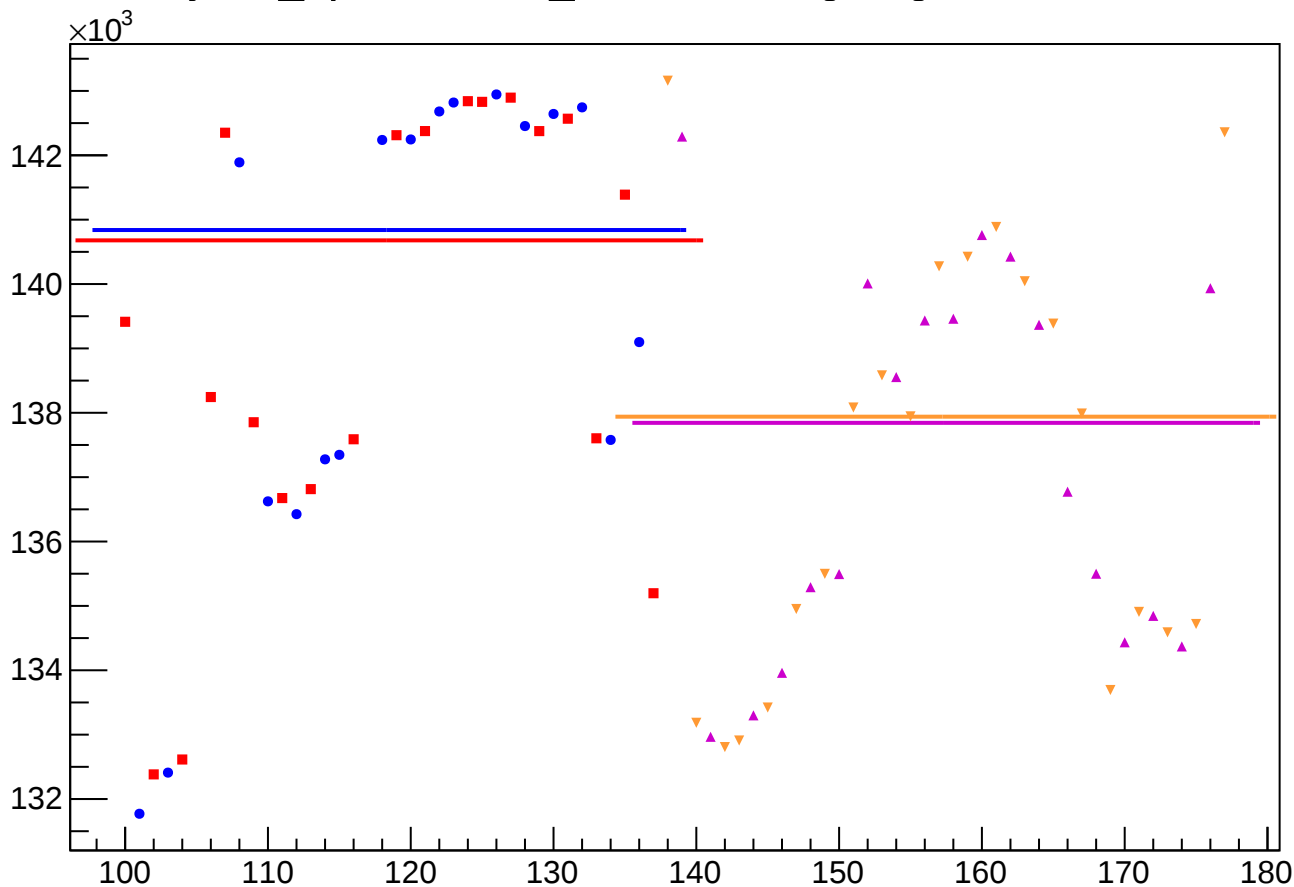
Right: 161.576 +/- 0.033 χ^2/NDF : 2329186.5/35

In: 192.149 +/- 0.031 χ^2/NDF : 2202592.4/35

Out: 187.689 +/- 0.029 χ^2/NDF : 2769831.4/39

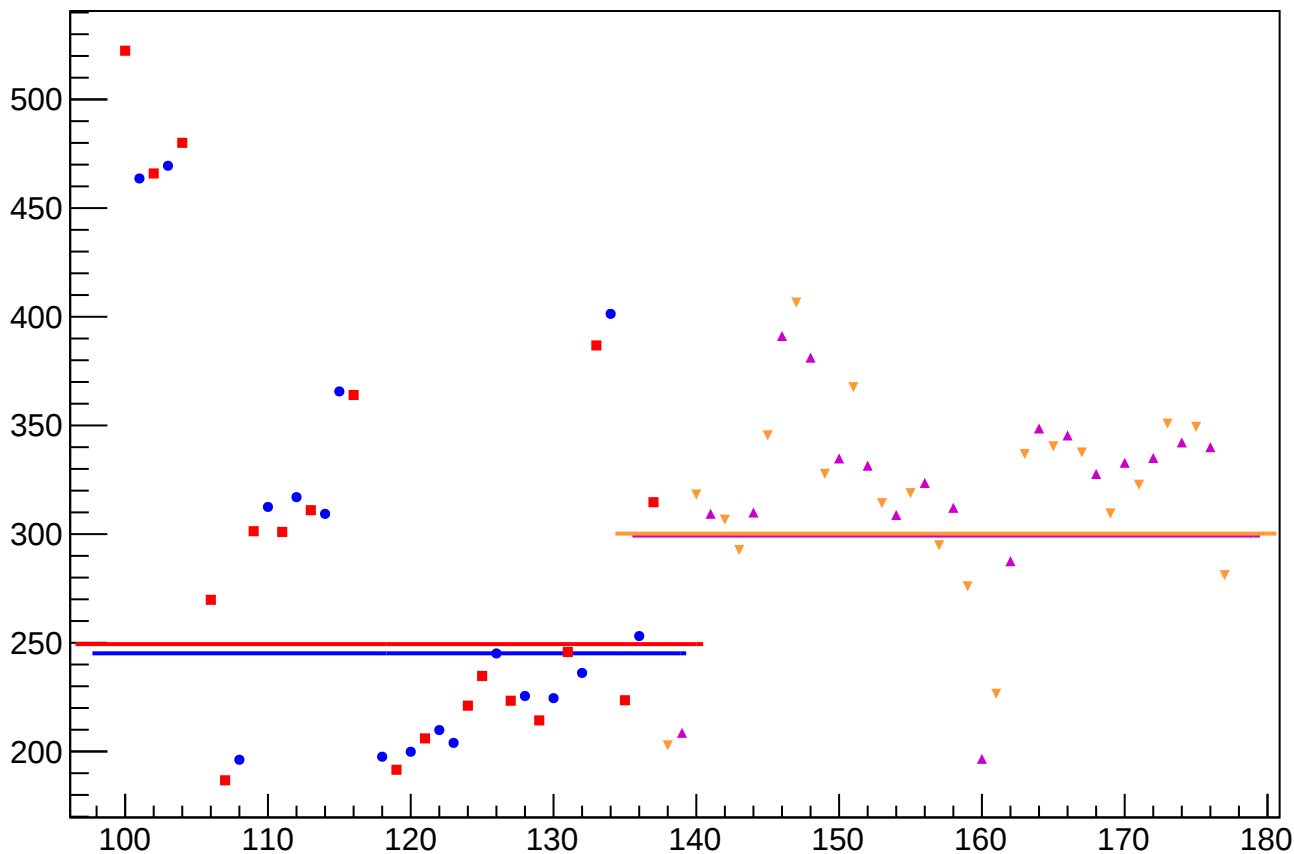
All: 189.800 +/- 0.021 χ^2/NDF : 4983648.7/75

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2 /NDF: 822682996.3/16	Left: 137893.444 $\pm$ 0.056	χ^2 /NDF: 3397818248.9/3
Left Out: 137939.521 $\pm$ 0.078	χ^2 /NDF: 1961162458.7/20	Right: 140758.088 $\pm$ 0.070	χ^2 /NDF: 1664679717.2/3
Right Out: 140678.513 $\pm$ 0.099	χ^2 /NDF: 840695274.4/18	In: 139024.946 $\pm$ 0.063	χ^2 /NDF: 2801908165.3/3
Left In: 137843.693 $\pm$ 0.081	χ^2 /NDF: 1435923765.9/18	Out: 138981.686 $\pm$ 0.061	χ^2 /NDF: 3275092574.6/3
		All: 139002.731 $\pm$ 0.044	χ^2 /NDF: 60772443

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 300.250 $\pm$ 0.055 χ^2 /NDF:843398.2/20

Right Out: 249.397 $\pm$ 0.070 χ^2 /NDF: 1009731.2/18

Left In: 299.324 $\pm$ 0.057 χ^2 /NDF:1013913.1/18

Left: 299.805 $\pm$ 0.040 χ^2 /NDF: 1857448.0/39

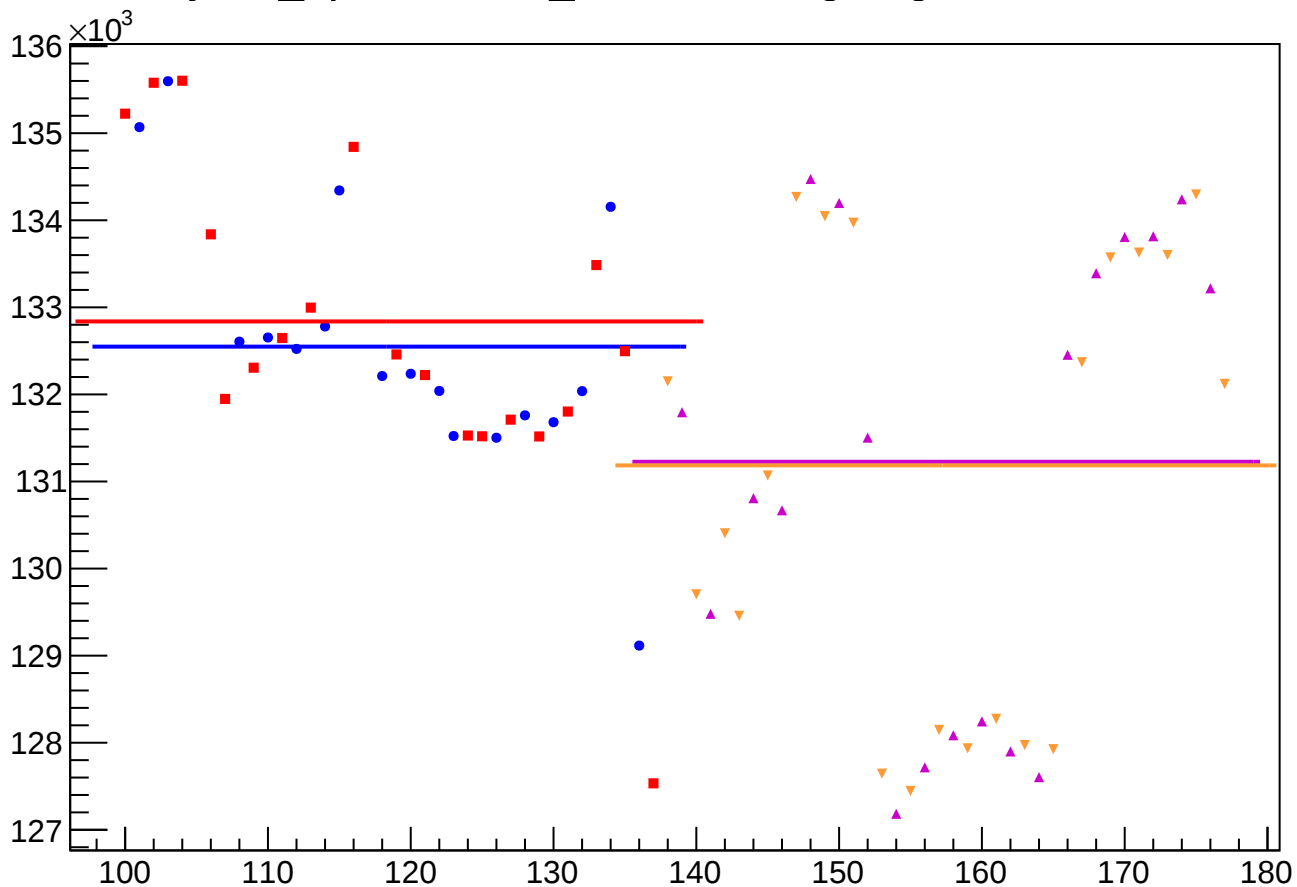
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 277.964 $\pm$ 0.044 χ^2 /NDF:2238702.8/35

Out: 280.901 $\pm$ 0.043 χ^2 /NDF:2179391.4/39

All: 279.472 $\pm$ 0.031 χ^2 /NDF: 4420340.0/75

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2/NDF : 161115079.9/16

Left Out: 131184.816 $\pm$ 0.067 χ^2/NDF : 1158699718.1/20

Right Out: 132838.294 $\pm$ 0.107 χ^2/NDF : 149611447.6/18

Left In: 131226.386 $\pm$ 0.071 χ^2/NDF : 1045390743.1/18

Left: 131204.333 $\pm$ 0.049 χ^2/NDF : 2204270294.0/3

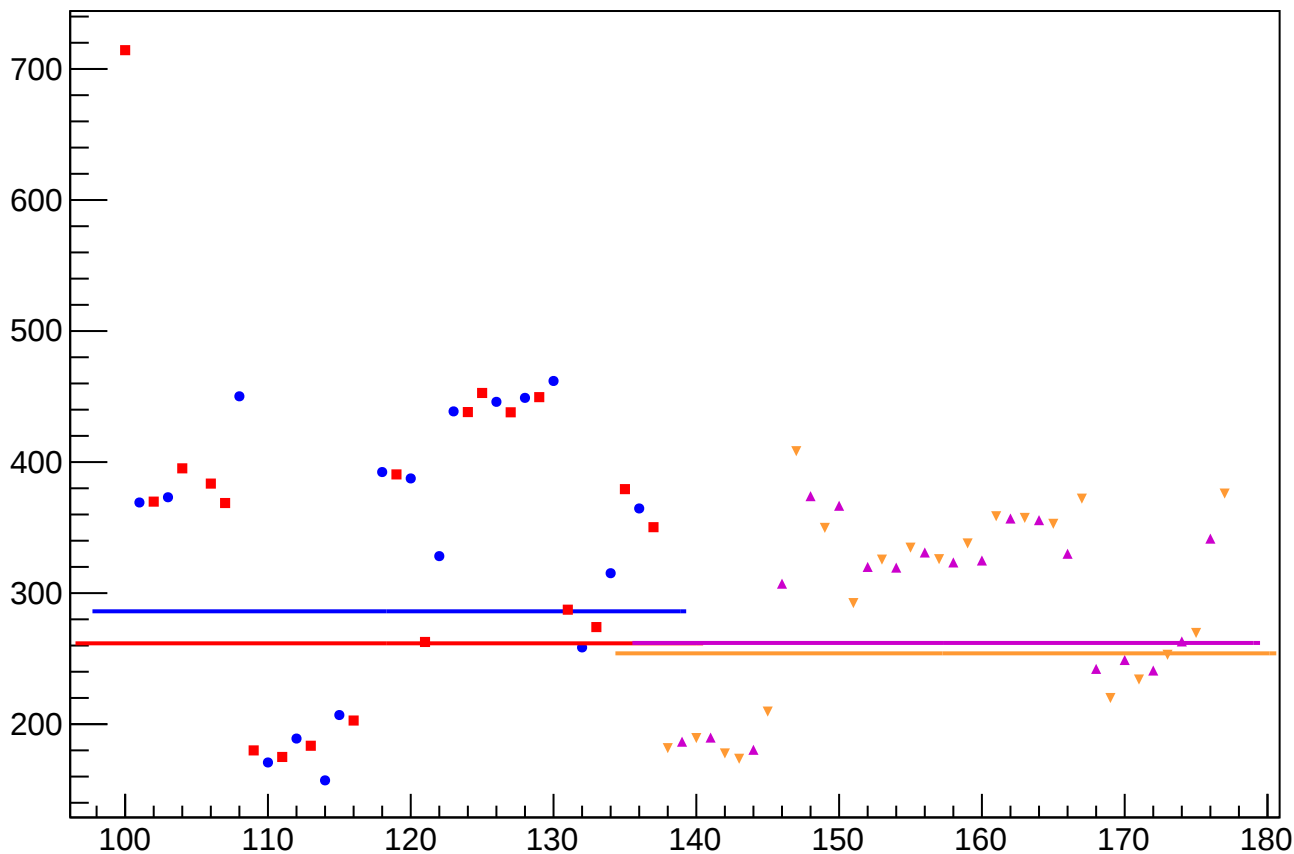
Right: 132709.226 $\pm$ 0.080 χ^2/NDF : 313982981.1/3

In: 131574.852 $\pm$ 0.061 χ^2/NDF : 1296906481.0/35

Out: 131651.569 $\pm$ 0.057 χ^2/NDF : 1479378611.2/3

All: 131616.044 $\pm$ 0.042 χ^2/NDF : 277712677

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 $\pm$ 0.084 χ^2 /NDF: 1525266.4/16

Left Out: 254.039 $\pm$ 0.047 χ^2 /NDF:2313941.0/20

Right Out: 261.686 $\pm$ 0.076 χ^2 /NDF: 1623174.1/18

Left In: 261.979 $\pm$ 0.050 χ^2 /NDF:1737685.3/18

Left: 257.767 $\pm$ 0.035 χ^2 /NDF: 4064746.6/39

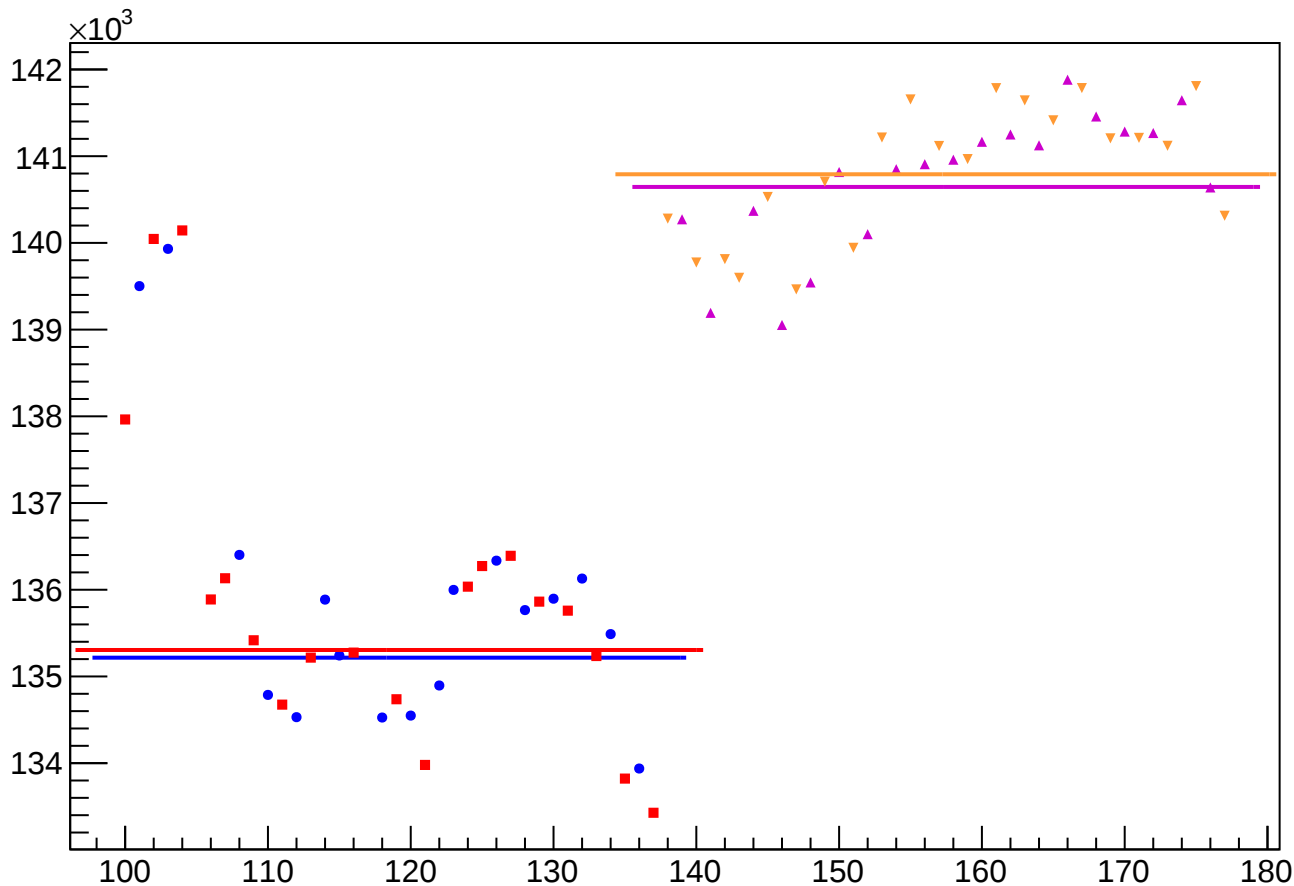
Right: 272.584 $\pm$ 0.056 χ^2 /NDF: 3194872.3/35

In: 268.340 $\pm$ 0.043 χ^2 /NDF:3323207.3/35

Out: 256.198 $\pm$ 0.040 χ^2 /NDF:3944432.8/39

All: 261.821 $\pm$ 0.029 χ^2 /NDF: 7309811.0/75

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054 χ^2 /NDF: 371347707.3/16

Left Out: 140791.457 $\pm$ 0.050 χ^2 /NDF: 219746168.5/20

Right Out: 135305.135 $\pm$ 0.051 χ^2 /NDF: 357636841.6/18

Left In: 140645.371 $\pm$ 0.053 χ^2 /NDF: 190707831.1/18

Left: 140722.538 $\pm$ 0.037 χ^2 /NDF: 414402577.4/39

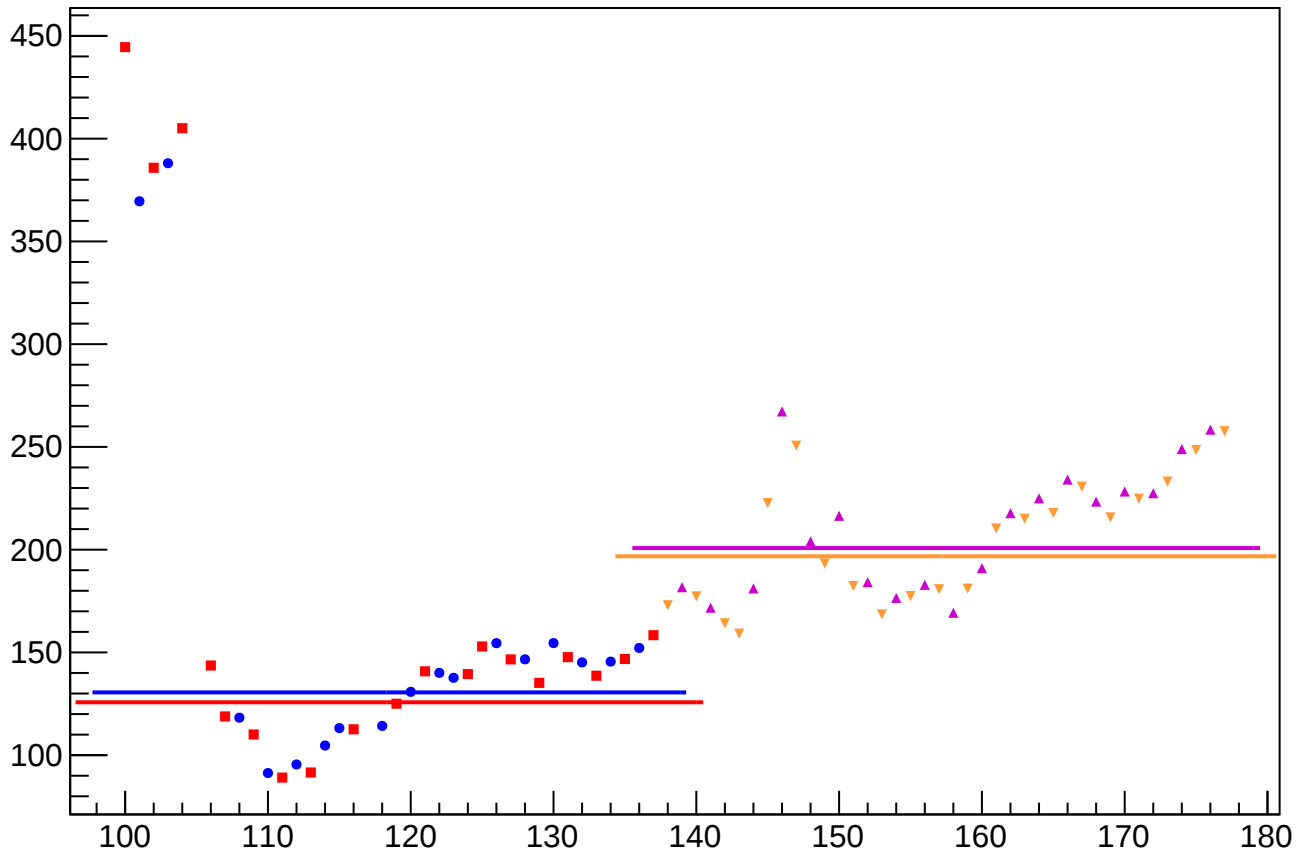
Right: 135263.557 $\pm$ 0.037 χ^2 /NDF: 730392205.8/39

In: 137977.535 $\pm$ 0.038 χ^2 /NDF: 5635055088.3/39

Out: 138083.144 $\pm$ 0.036 χ^2 /NDF: 6404700364.3/39

All: 138033.435 $\pm$ 0.026 χ^2 /NDF: 120438214.0/78

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 ± 0.038 $\chi^2/\text{NDF}: 1373104.9/16$

Left Out: 196.788 ± 0.036 $\chi^2/\text{NDF}: 628818.7/20$

Right Out: 125.746 ± 0.036 $\chi^2/\text{NDF}: 1440002.5/18$

Left In: 200.789 ± 0.038 $\chi^2/\text{NDF}: 534771.2/18$

Left: 198.676 ± 0.026 $\chi^2/\text{NDF}: 1169514.6/39$

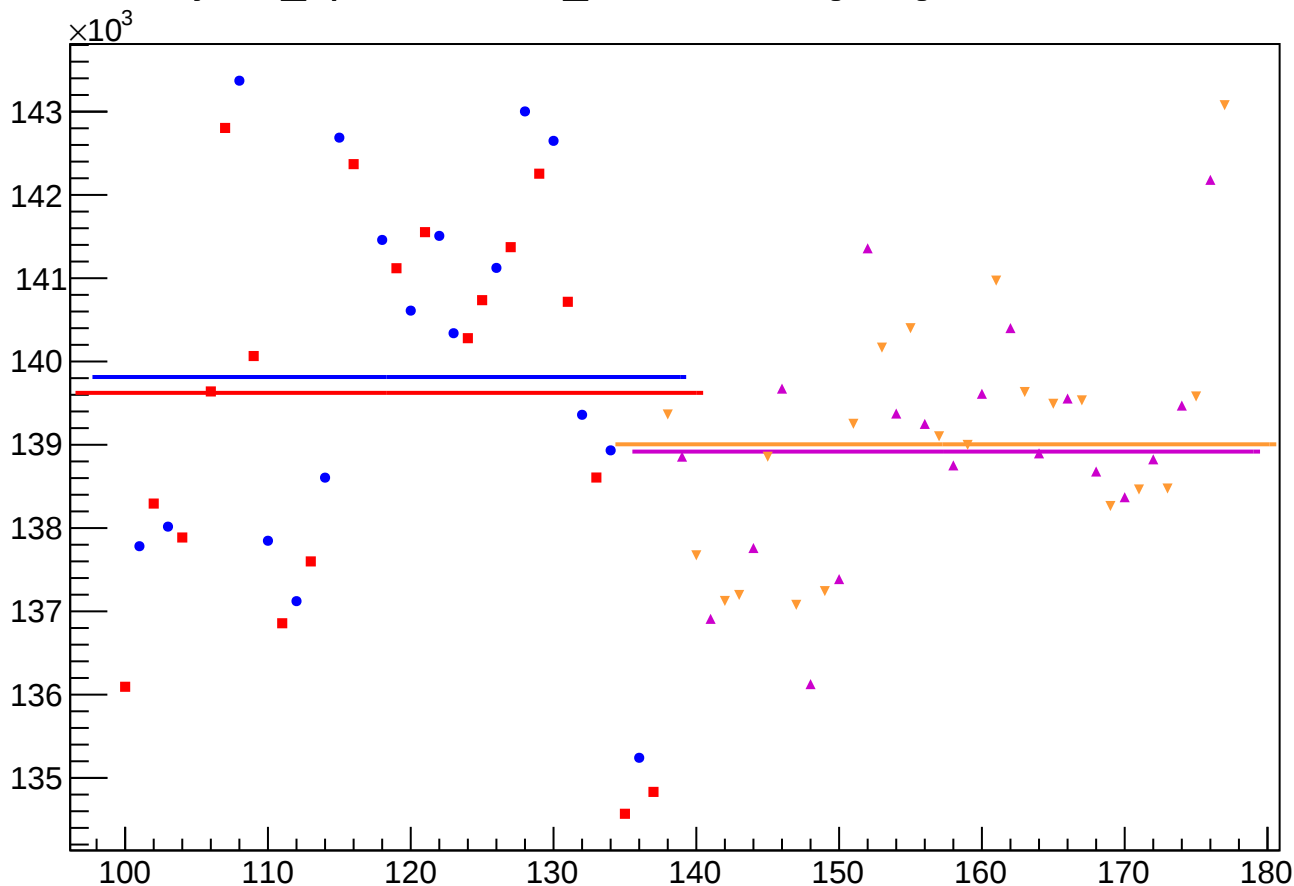
Right: 128.002 ± 0.026 $\chi^2/\text{NDF}: 2821400.9/35$

In: 166.273 ± 0.027 $\chi^2/\text{NDF}: 3606238.1/35$

Out: 161.718 ± 0.025 $\chi^2/\text{NDF}: 4023028.6/39$

All: 163.862 ± 0.018 $\chi^2/\text{NDF}: 7644392.7/75$

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2 /NDF: 1689865533.6/16

Left: 138963.702 $\pm$ 0.037

χ^2 /NDF: 1376714404.3/3

Right: 139713.961 $\pm$ 0.043

χ^2 /NDF: 3200544274.5/3

Left Out: 139005.639 $\pm$ 0.051

χ^2 /NDF: 701825812.5/20

In: 139301.668 $\pm$ 0.041

χ^2 /NDF: 2482937307.4/35

Right Out: 139623.387 $\pm$ 0.059

χ^2 /NDF: 1505731109.1/18

Out: 139272.380 $\pm$ 0.039

χ^2 /NDF: 2269806619.0/3

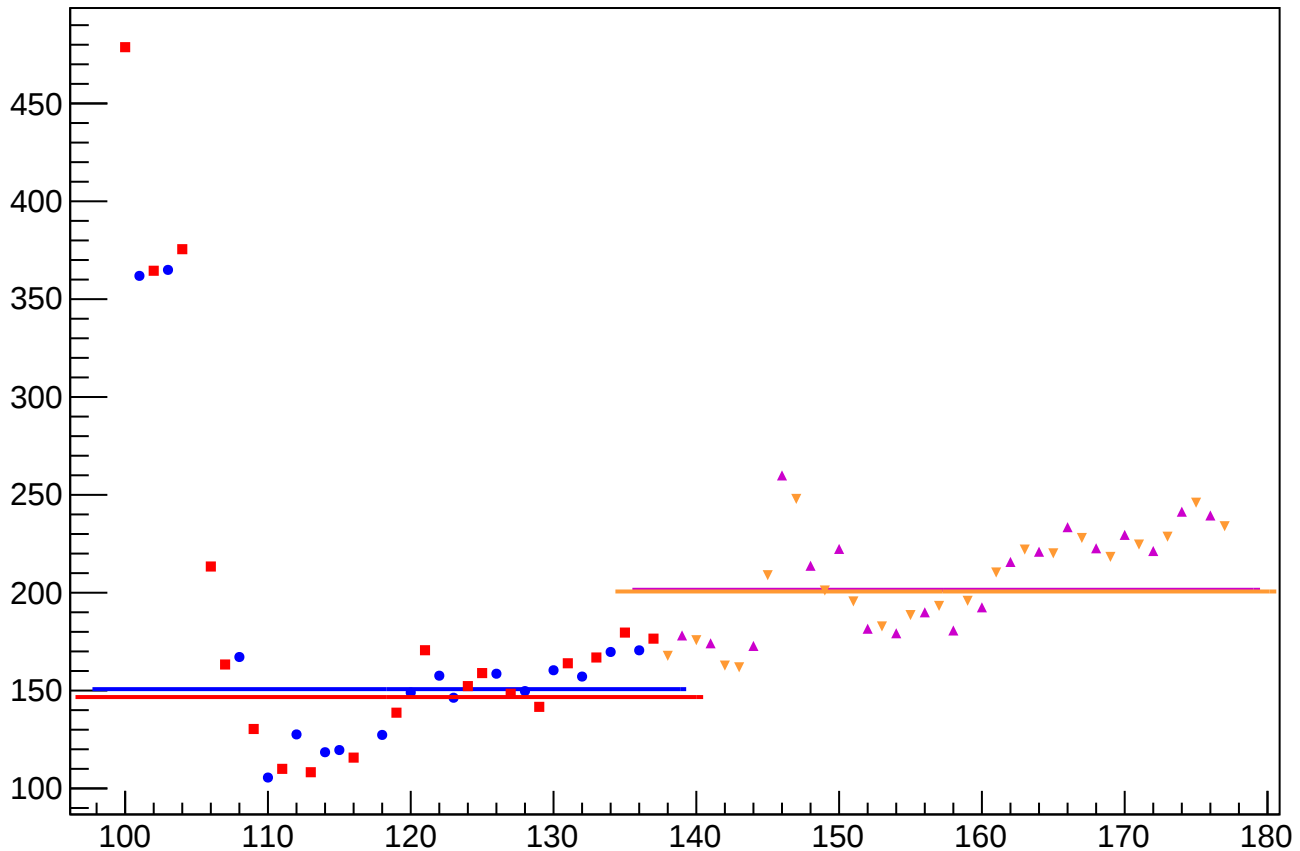
Left In: 138918.206 $\pm$ 0.054

χ^2 /NDF: 673503449.3/18

All: 139286.382 $\pm$ 0.028

χ^2 /NDF: 475301657.0/3

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 200.628 $\pm$ 0.036 χ^2 /NDF: 473971.3/20

Right Out: 146.686 $\pm$ 0.042 χ^2 /NDF: 1203106.6/18

Left In: 201.502 $\pm$ 0.038 χ^2 /NDF: 445395.3/18

Left: 201.048 $\pm$ 0.026 χ^2 /NDF: 919643.3/39

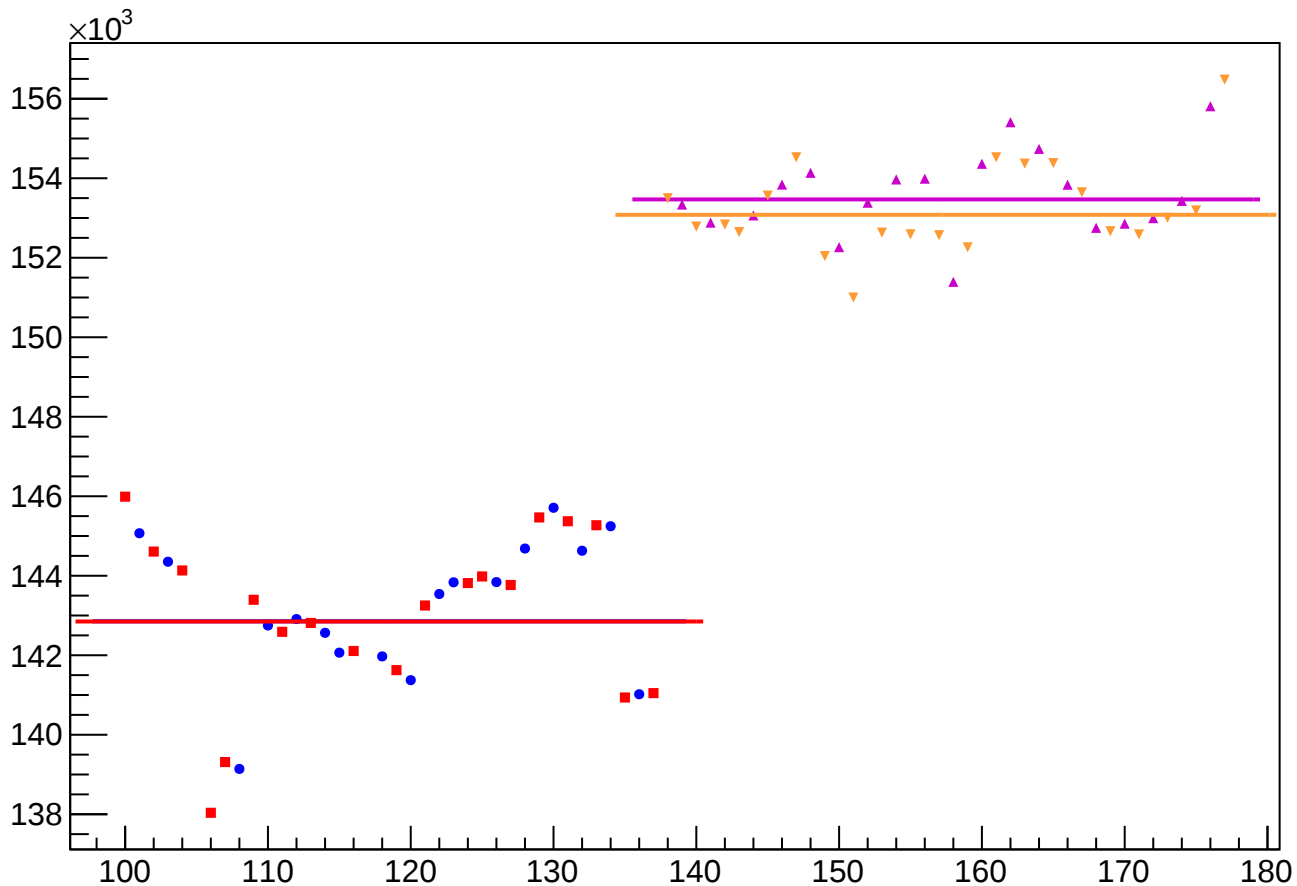
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 179.761 $\pm$ 0.029 χ^2 /NDF: 2264167.6/35

Out: 177.336 $\pm$ 0.027 χ^2 /NDF: 2626391.4/39

All: 178.496 $\pm$ 0.020 χ^2 /NDF: 4894298.0/75

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065 χ^2 /NDF: 740367386.5/16

Left Out: 153080.135 $\pm$ 0.052 χ^2 /NDF: 426725824.6/20

Right Out: 142849.362 $\pm$ 0.060 χ^2 /NDF: 850066807.5/18

Left In: 153467.120 $\pm$ 0.054 χ^2 /NDF: 341090301.6/18

Left: 153265.627 $\pm$ 0.038 χ^2 /NDF: 794283909.3/39

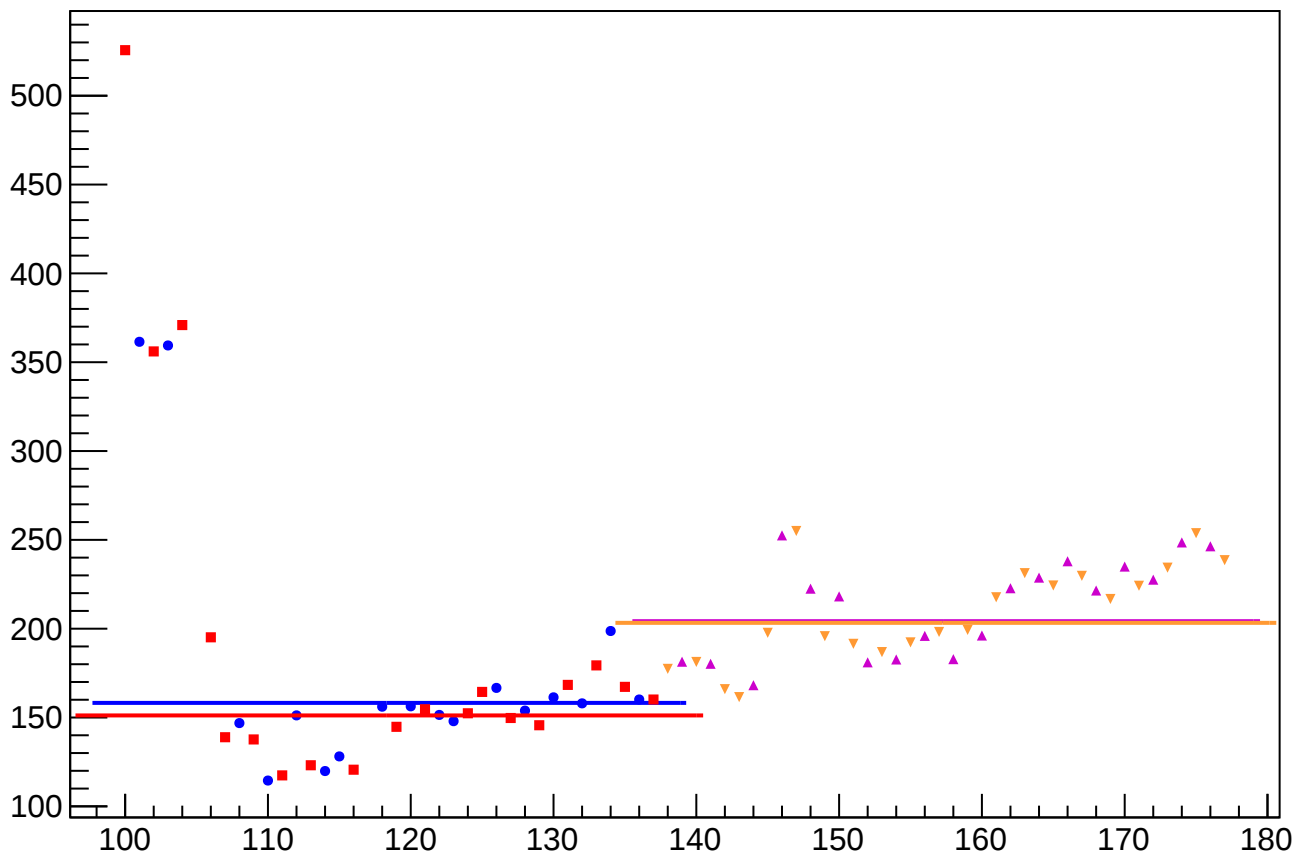
Right: 142851.648 $\pm$ 0.044 χ^2 /NDF: 1590437268.8/39

In: 149080.342 $\pm$ 0.042 χ^2 /NDF: 16884533322.0/39

Out: 148717.283 $\pm$ 0.039 χ^2 /NDF: 17734768482.8/39

All: 148889.262 $\pm$ 0.029 χ^2 /NDF: 346594415.0/39

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 203.292+/-0.037 χ^2/NDF : 476288.4/20

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 204.226+/-0.038 χ^2/NDF : 466335.4/18

Left: 203.740+/-0.027 χ^2/NDF : 942932.1/39

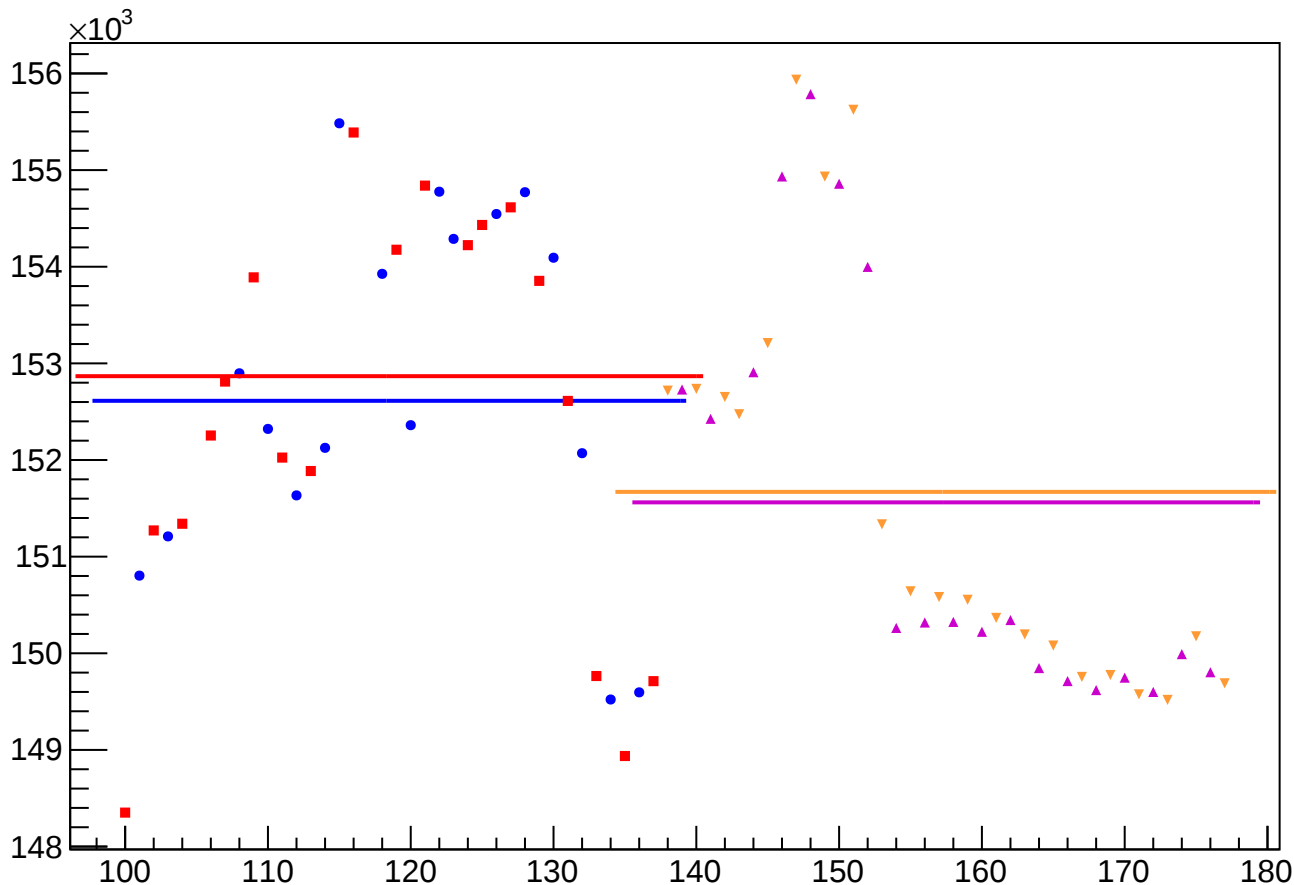
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 185.215+/-0.029 χ^2/NDF : 1943447.2/35

Out: 181.067+/-0.028 χ^2/NDF : 2333795.1/39

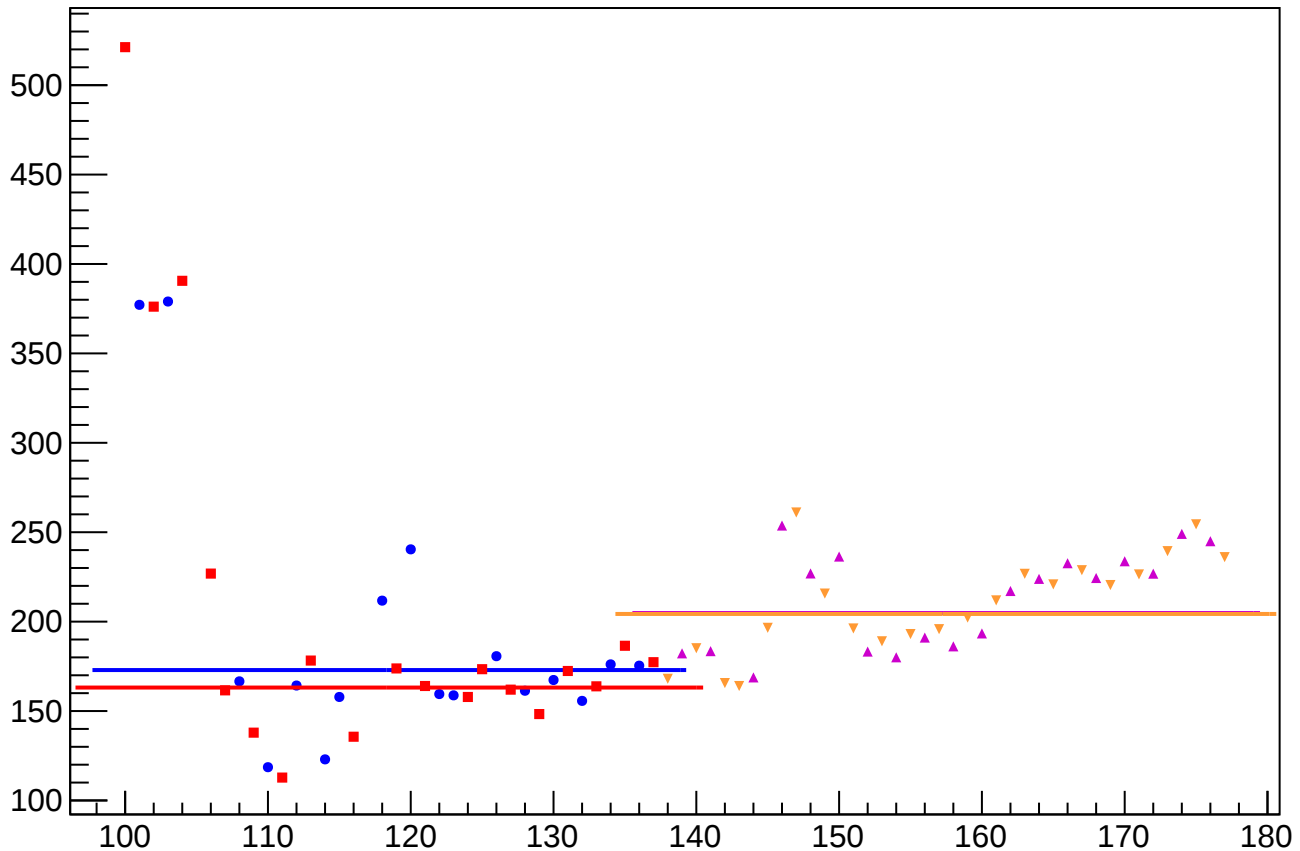
All: 183.032+/-0.020 χ^2/NDF : 4287721.9/75

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2 /NDF: 621416187.4/16	Left: 151618.179 $\pm$ 0.038	χ^2 /NDF: 2620003334.2/3
Left Out: 151670.331 $\pm$ 0.052	χ^2 /NDF: 1328257758.0/20	Right: 152750.957 $\pm$ 0.049	χ^2 /NDF: 1347263895.4/3
Right Out: 152867.453 $\pm$ 0.066	χ^2 /NDF: 719075986.4/18	In: 151941.791 $\pm$ 0.043	χ^2 /NDF: 2046444765.1/3
Left In: 151561.646 $\pm$ 0.054	χ^2 /NDF: 1289663725.7/18	Out: 152128.923 $\pm$ 0.041	χ^2 /NDF: 2248973587.0/3
		All: 152040.717 $\pm$ 0.030	χ^2 /NDF: 430524546.0/18

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921 ± 0.051 $\chi^2/\text{NDF}: 941954.0/16$

Left Out: 204.296 ± 0.037 $\chi^2/\text{NDF}: 495963.4/20$

Right Out: 163.138 ± 0.047 $\chi^2/\text{NDF}: 1033751.2/18$

Left In: 204.824 ± 0.038 $\chi^2/\text{NDF}: 471861.8/18$

Left: 204.549 ± 0.027 $\chi^2/\text{NDF}: 967923.4/39$

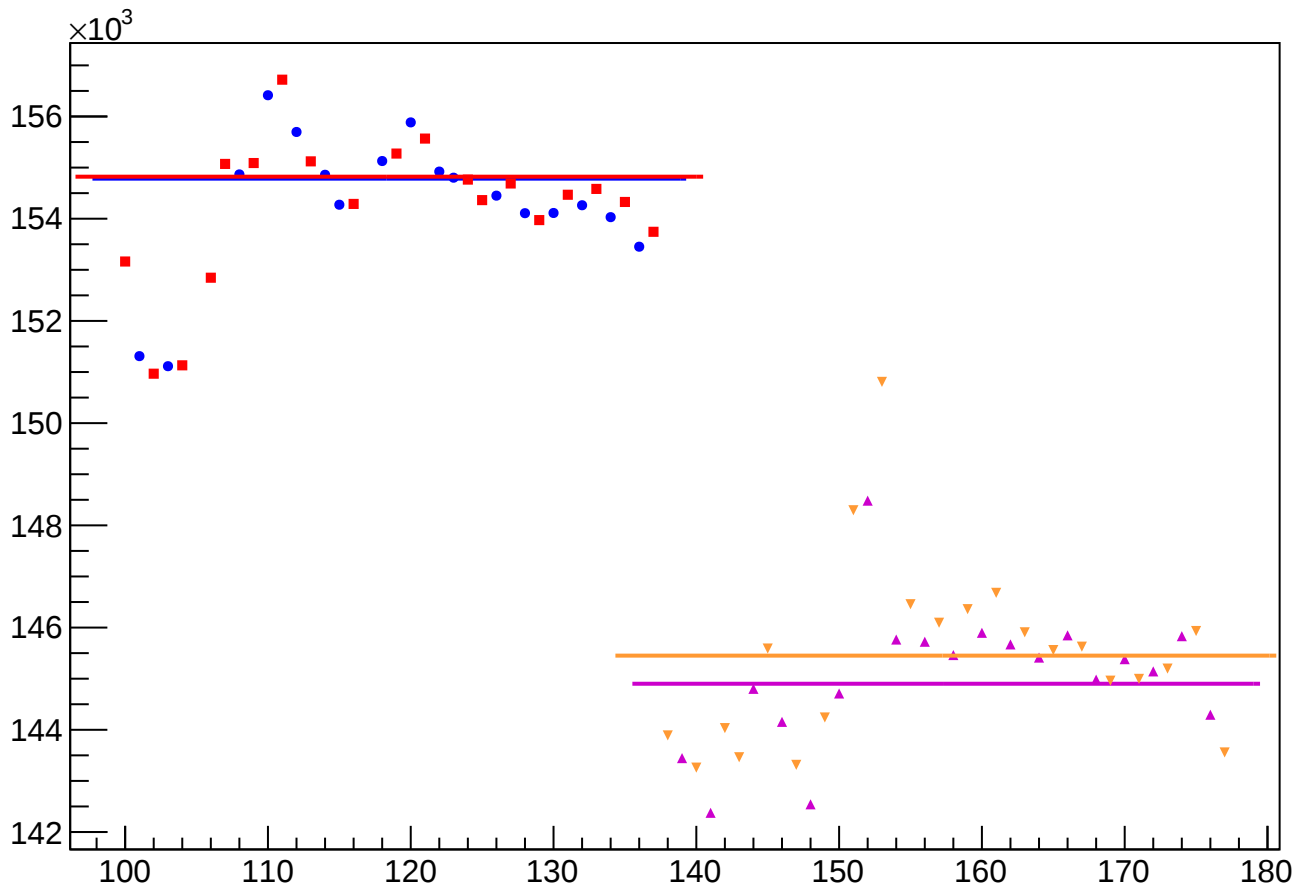
Right: 167.610 ± 0.034 $\chi^2/\text{NDF}: 1995658.5/35$

In: 193.284 ± 0.031 $\chi^2/\text{NDF}: 1663302.1/35$

Out: 188.529 ± 0.029 $\chi^2/\text{NDF}: 2006407.9/39$

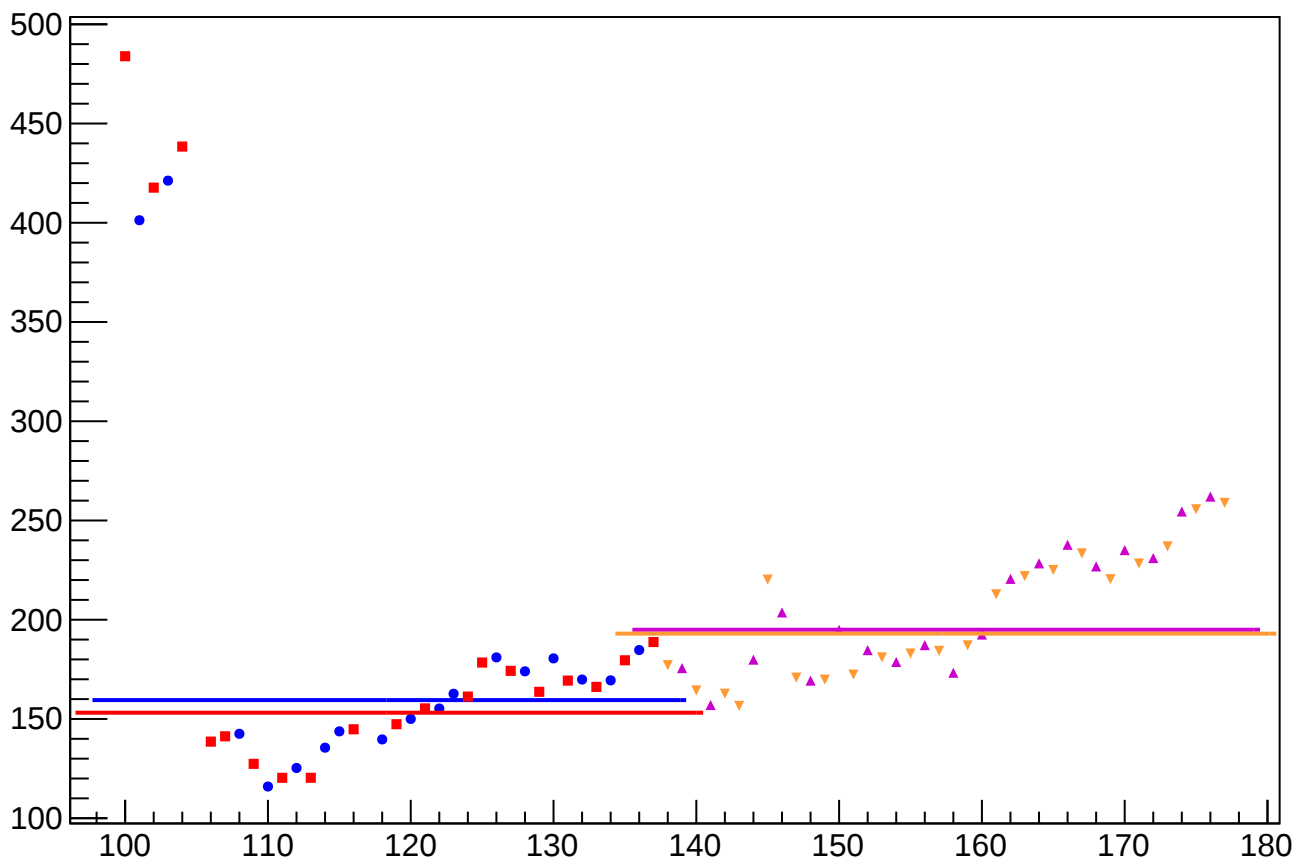
All: 190.771 ± 0.021 $\chi^2/\text{NDF}: 3682397.6/75$

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944+/-0.065	χ^2/NDF : 265581398.0/16	Left: 145188.830+/-0.036	χ^2/NDF : 2437486747.8/3
Left Out: 145451.239+/-0.049	χ^2/NDF : 1537417840.7/20	Right: 154804.381+/-0.045	χ^2/NDF : 559614489.4/3
Right Out: 154822.113+/-0.061	χ^2/NDF : 293850525.9/18	In: 148704.261+/-0.041	χ^2/NDF : 15167991658.5/3
Left In: 144901.088+/-0.052	χ^2/NDF : 840845896.6/18	Out: 149168.564+/-0.038	χ^2/NDF : 16121551419.4
		All: 148949.357+/-0.028	χ^2/NDF : 313587493

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2/NDF : 1131844.5/16

Left Out: 192.988 $\pm$ 0.035 χ^2/NDF : 698208.3/20

Right Out: 153.153 $\pm$ 0.043 χ^2/NDF : 1173739.7/18

Left In: 194.958 $\pm$ 0.037 χ^2/NDF : 583627.1/18

Left: 193.927 $\pm$ 0.025 χ^2/NDF : 1283354.0/39

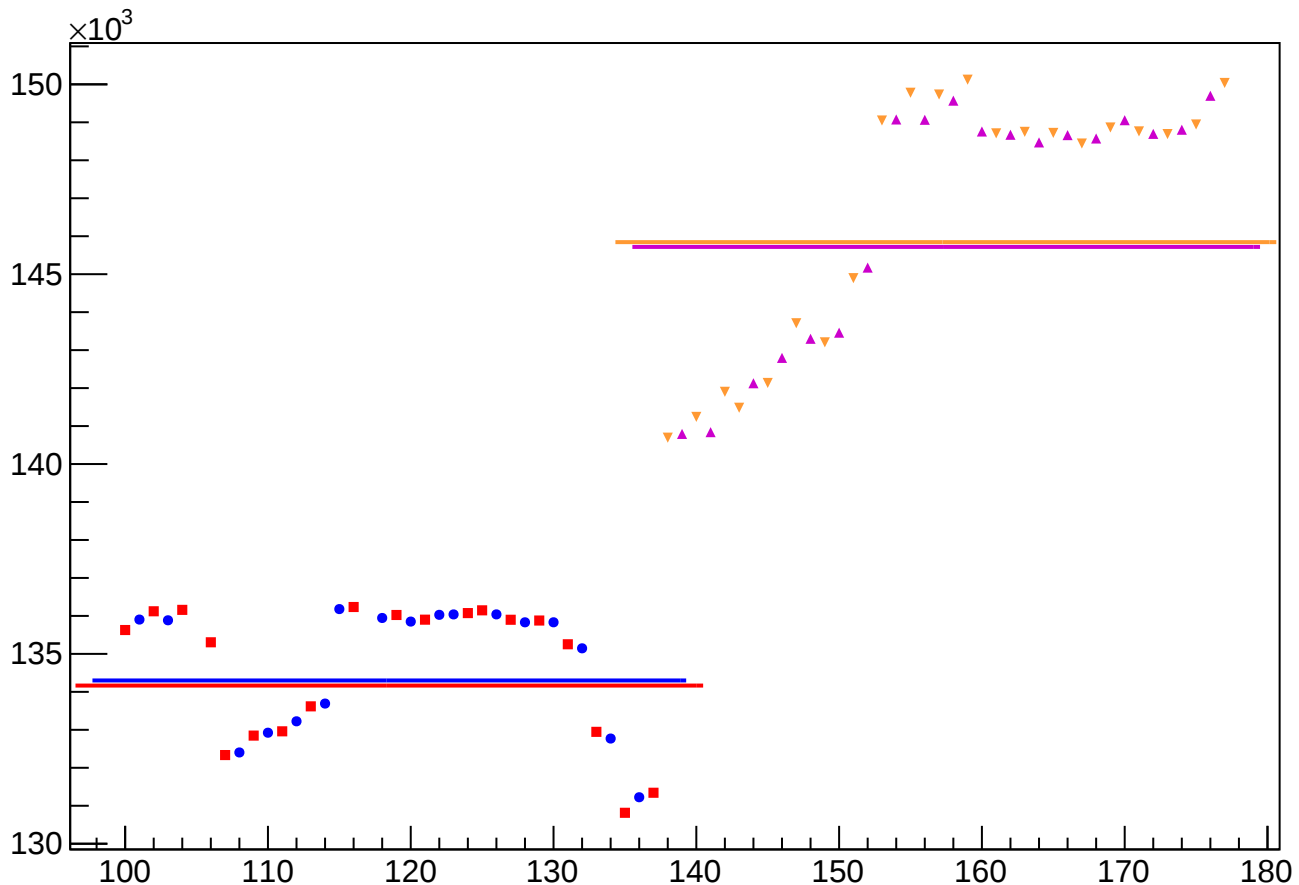
Right: 156.104 $\pm$ 0.032 χ^2/NDF : 2315690.5/35

In: 181.314 $\pm$ 0.029 χ^2/NDF : 2077406.8/35

Out: 177.186 $\pm$ 0.027 χ^2/NDF : 2388395.8/39

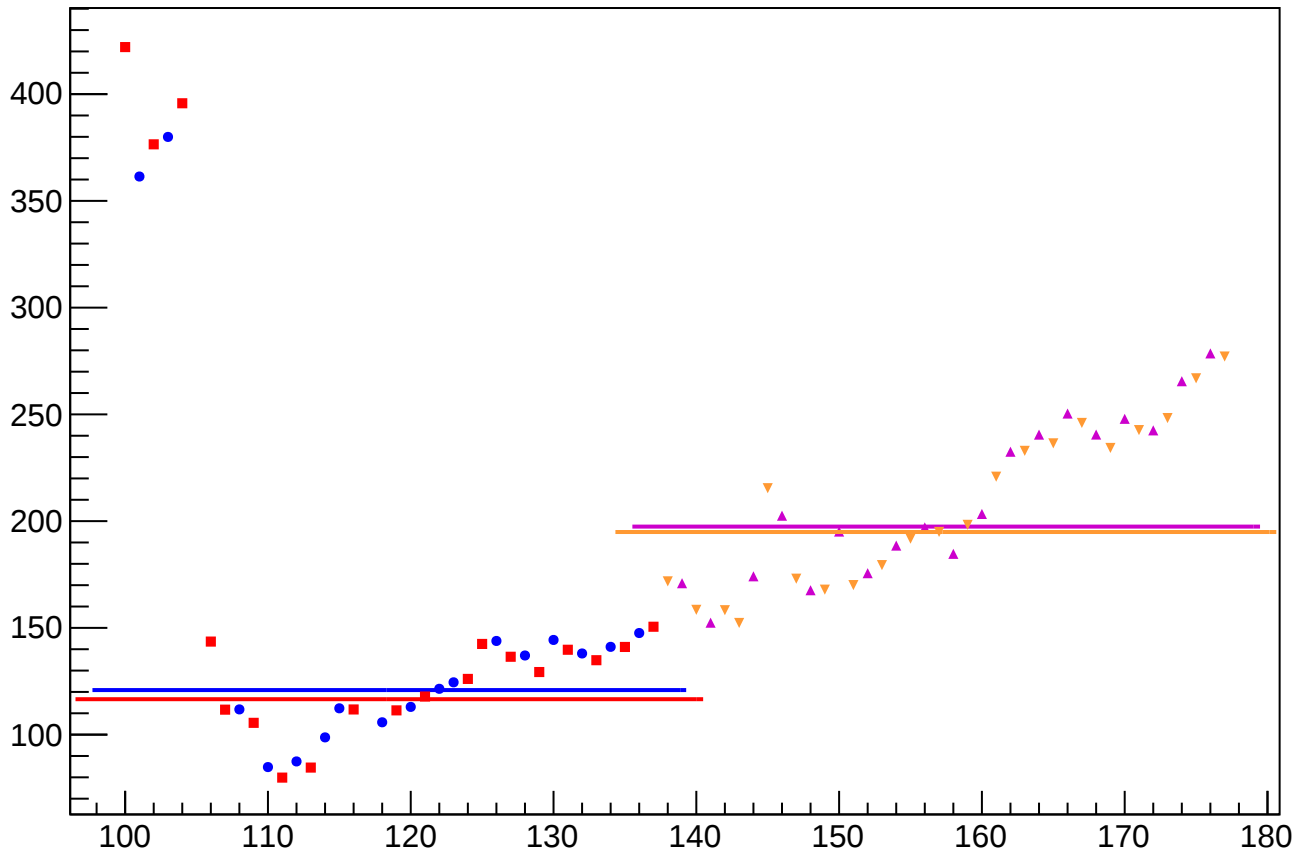
All: 179.135 $\pm$ 0.020 χ^2/NDF : 4476744.4/75

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050	χ^2 /NDF: 1149581803.2/16	Left: 145784.409 $\pm$ 0.036	χ^2 /NDF: 9101540997.1/3
Left Out: 145844.283 $\pm$ 0.050	χ^2 /NDF: 4962873156.6/20	Right: 134228.768 $\pm$ 0.035	χ^2 /NDF: 2364832007.2/1
Right Out: 134165.615 $\pm$ 0.047	χ^2 /NDF: 1211471052.4/18	In: 139758.717 $\pm$ 0.036	χ^2 /NDF: 29879248954.3/3
Left In: 145718.417 $\pm$ 0.053	χ^2 /NDF: 4135665893.3/18	Out: 139680.439 $\pm$ 0.034	χ^2 /NDF: 34848548404.5
		All: 139717.436 $\pm$ 0.025	χ^2 /NDF: 647302402

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 194.904 $\pm$ 0.035 χ^2 /NDF: 975024.2/20

Right Out: 116.595 $\pm$ 0.034 χ^2 /NDF: 1541338.5/18

Left In: 197.441 $\pm$ 0.037 χ^2 /NDF: 807753.0/18

Left: 196.111 $\pm$ 0.026 χ^2 /NDF: 1785217.5/39

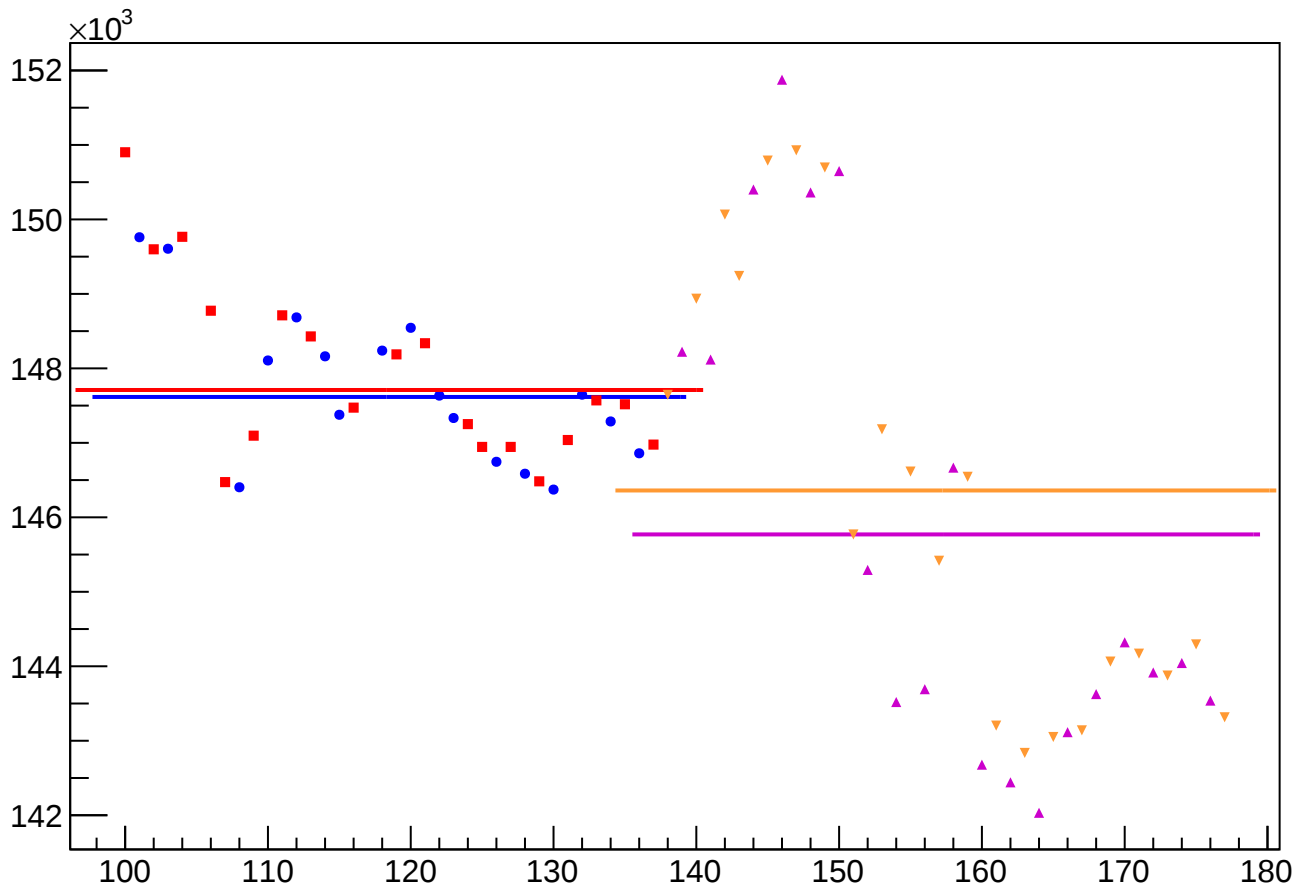
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 157.477 $\pm$ 0.026 χ^2 /NDF: 4483330.3/35

Out: 153.573 $\pm$ 0.024 χ^2 /NDF: 5094829.2/39

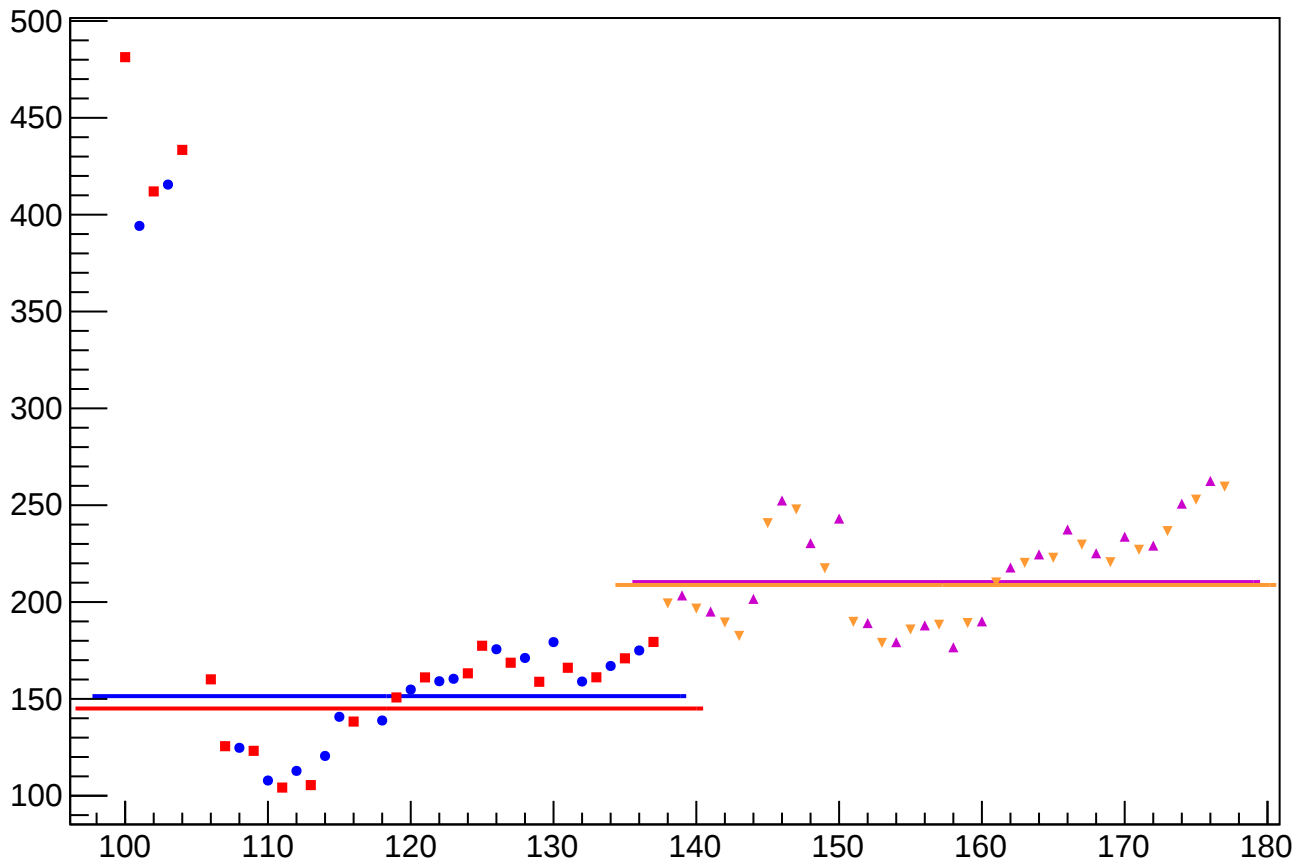
All: 155.418 $\pm$ 0.018 χ^2 /NDF: 9590311.1/75

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062	χ^2 /NDF: 199263428.7/16	Left: 146078.680 $\pm$ 0.038	χ^2 /NDF: 5375536693.1/3
Left Out: 146360.571 $\pm$ 0.053	χ^2 /NDF: 2419443497.9/20	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: 146586.903 $\pm$ 0.042	χ^2 /NDF: 3583198615.7/3
Left In: 145770.484 $\pm$ 0.056	χ^2 /NDF: 2897368924.4/18	Out: 146973.541 $\pm$ 0.039	χ^2 /NDF: 2915308884.3/3
		All: 146790.936 $\pm$ 0.029	χ^2 /NDF: 65441862

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424 $\pm$ 0.044 χ^2/NDF : 1257843.0/16

Left Out: 208.827 $\pm$ 0.038 χ^2/NDF :397725.9/20

Right Out: 145.039 $\pm$ 0.041 χ^2/NDF : 1375972.0/18

Left In: 210.311 $\pm$ 0.039 χ^2/NDF :420647.8/18

Left: 209.536 $\pm$ 0.027 χ^2/NDF : 819117.2/39

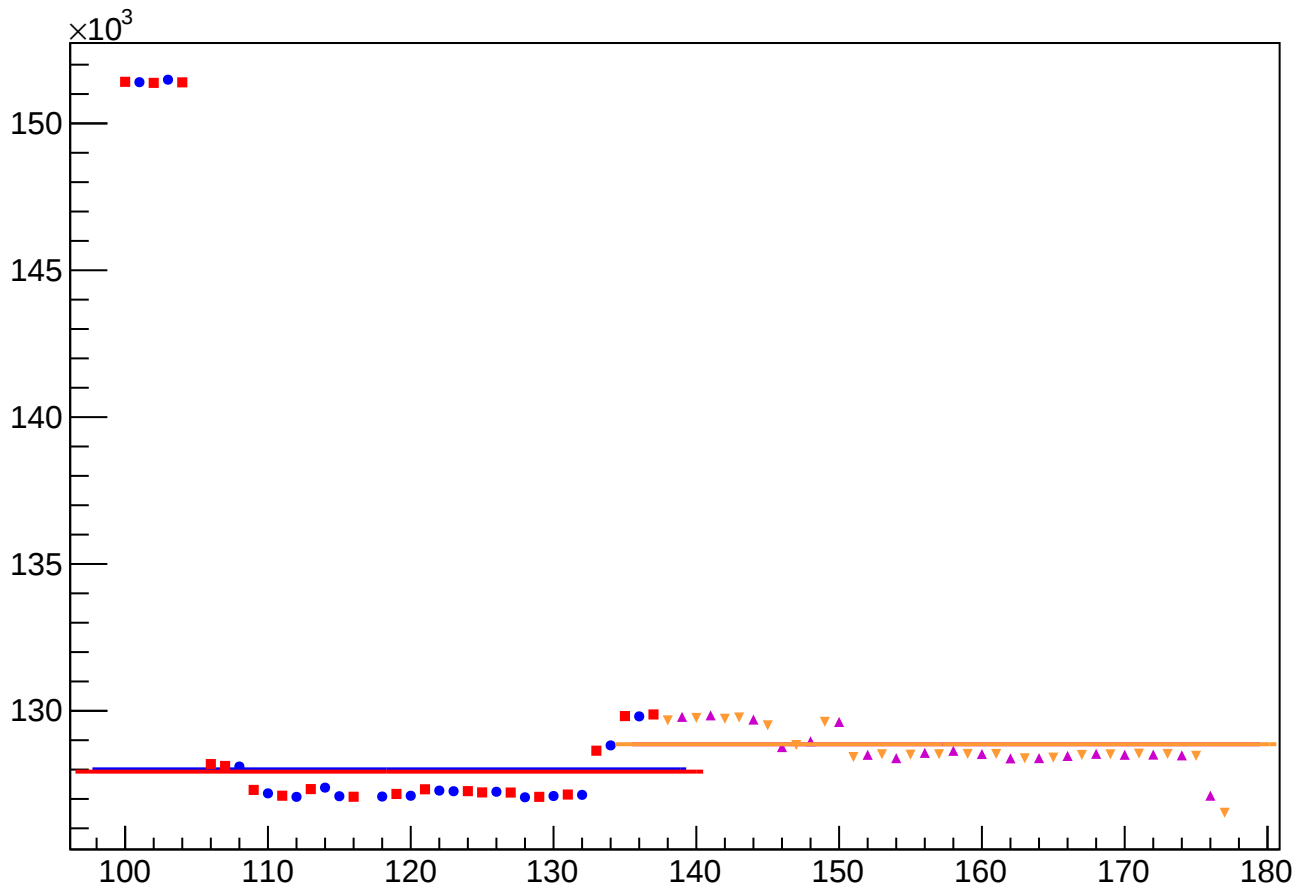
Right: 148.012 $\pm$ 0.030 χ^2/NDF : 2644973.7/35

In: 184.263 $\pm$ 0.029 χ^2/NDF :2669117.2/35

Out: 179.846 $\pm$ 0.028 χ^2/NDF :3078957.6/39

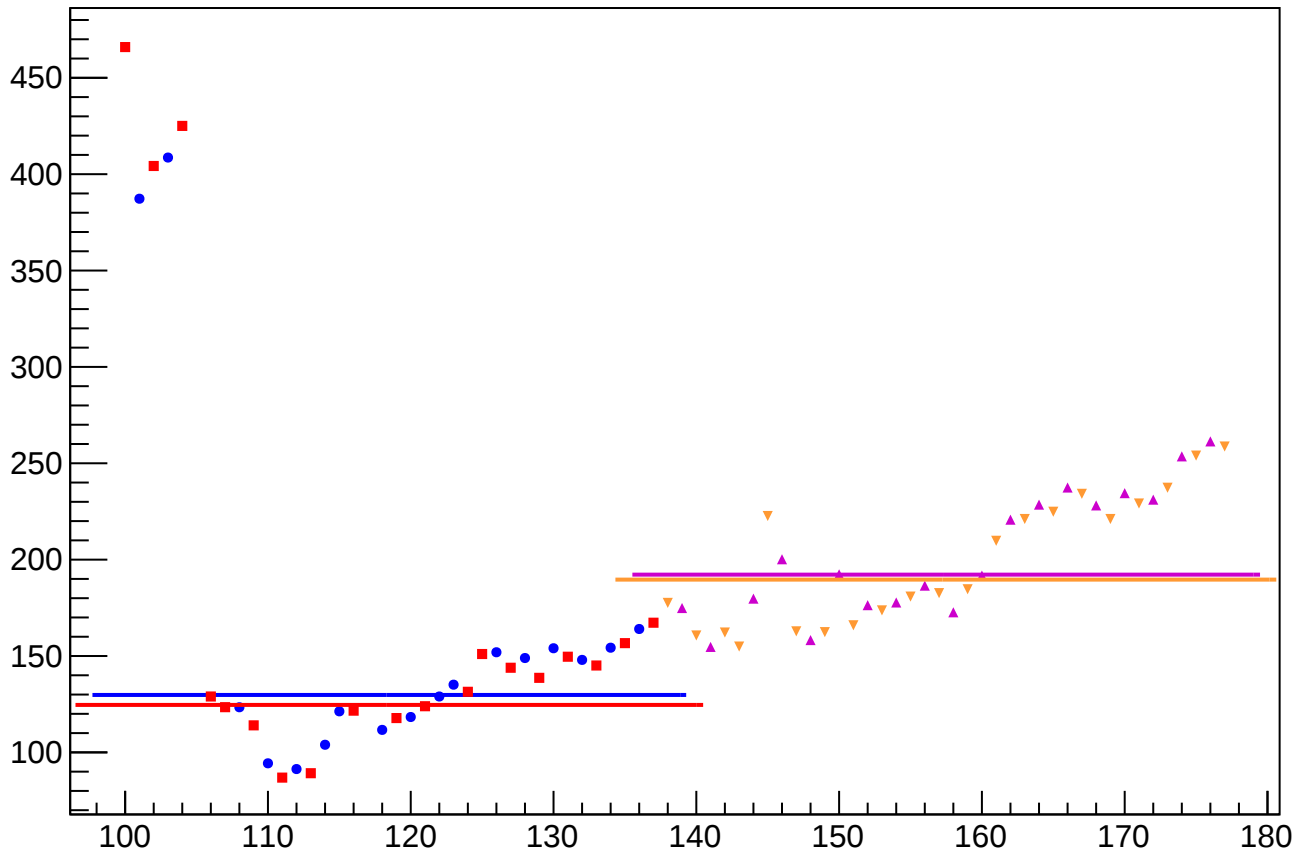
All: 181.932 $\pm$ 0.020 χ^2/NDF : 5759999.2/75

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128862.618 $\pm$ 0.049 χ^2 /NDF: 194092157.6/20
 Right Out: 127930.136 $\pm$ 0.050 χ^2 /NDF: 3768176193.0/18
 Left In: 128862.027 $\pm$ 0.051 χ^2 /NDF: 147761525.7/18
 Left: 128862.337 $\pm$ 0.035 χ^2 /NDF: 341853753.6/39
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/47
 In: 128459.620 $\pm$ 0.037 χ^2 /NDF: 4599495908.8/39
 Out: 128413.517 $\pm$ 0.035 χ^2 /NDF: 4139847600.1/39
 All: 128435.180 $\pm$ 0.025 χ^2 /NDF: 874016047.1/78

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 189.639 $\pm$ 0.034 χ^2 /NDF: 804612.5/20

Right Out: 124.625 $\pm$ 0.036 χ^2 /NDF: 1531827.4/18

Left In: 192.223 $\pm$ 0.036 χ^2 /NDF: 658393.3/18

Left: 190.866 $\pm$ 0.025 χ^2 /NDF: 1465694.0/39

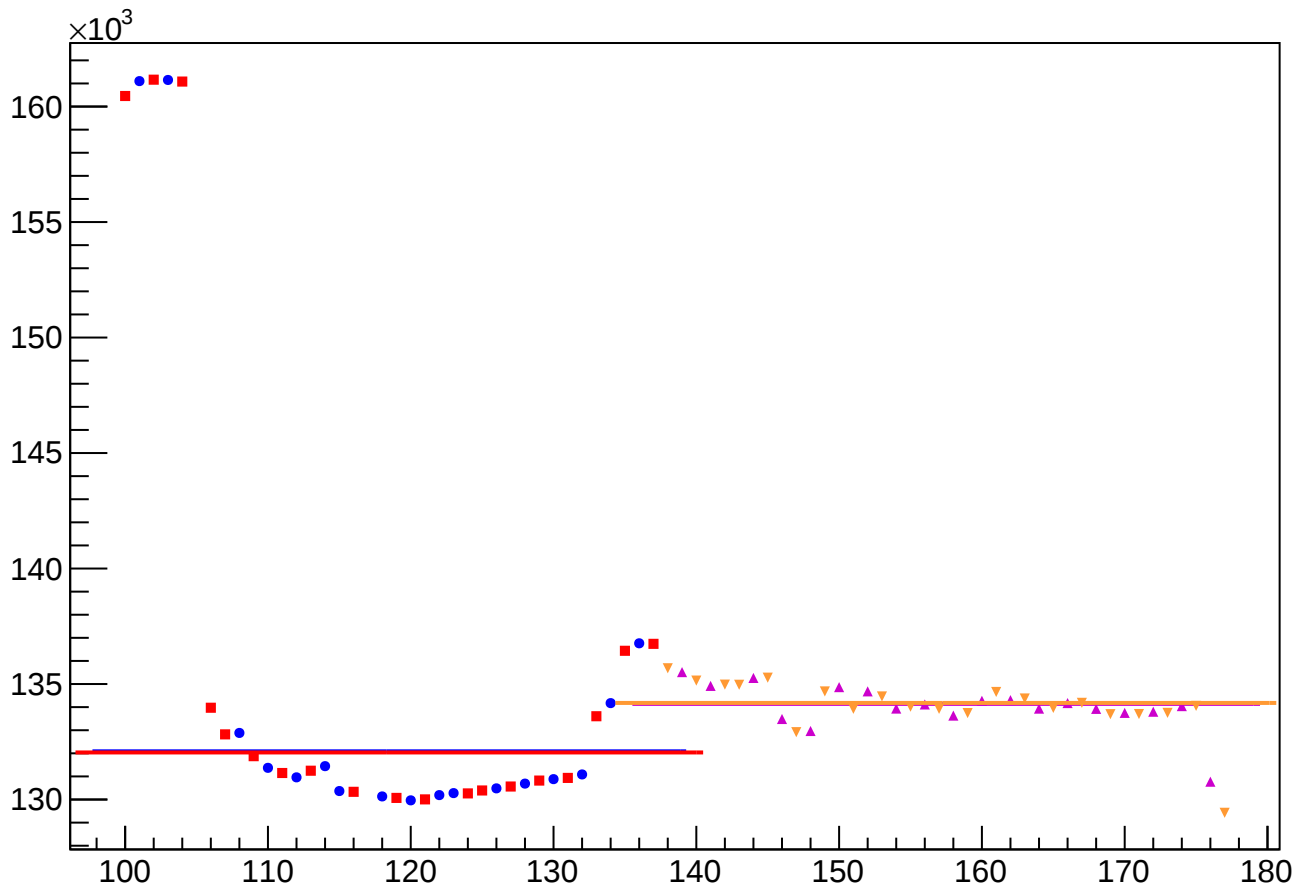
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 162.830 $\pm$ 0.026 χ^2 /NDF: 3551628.8/35

Out: 158.327 $\pm$ 0.025 χ^2 /NDF: 4062939.6/39

All: 160.443 $\pm$ 0.018 χ^2 /NDF: 7630154.9/75

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057

χ^2 /NDF: 6733230928.7/16

Left: 134162.006 $\pm$ 0.036

χ^2 /NDF: 732998764.7/39

Left Out: 134181.797 $\pm$ 0.050

χ^2 /NDF: 446142081.6/20

Right: 132060.364 $\pm$ 0.038

χ^2 /NDF: 12615754245.6/39

Right Out: 132037.539 $\pm$ 0.053

χ^2 /NDF: 5882115872.9/18

In: 133184.684 $\pm$ 0.039

χ^2 /NDF: 7725345628.8/39

Out: 133157.557 $\pm$ 0.036

χ^2 /NDF: 7198607692.6/39

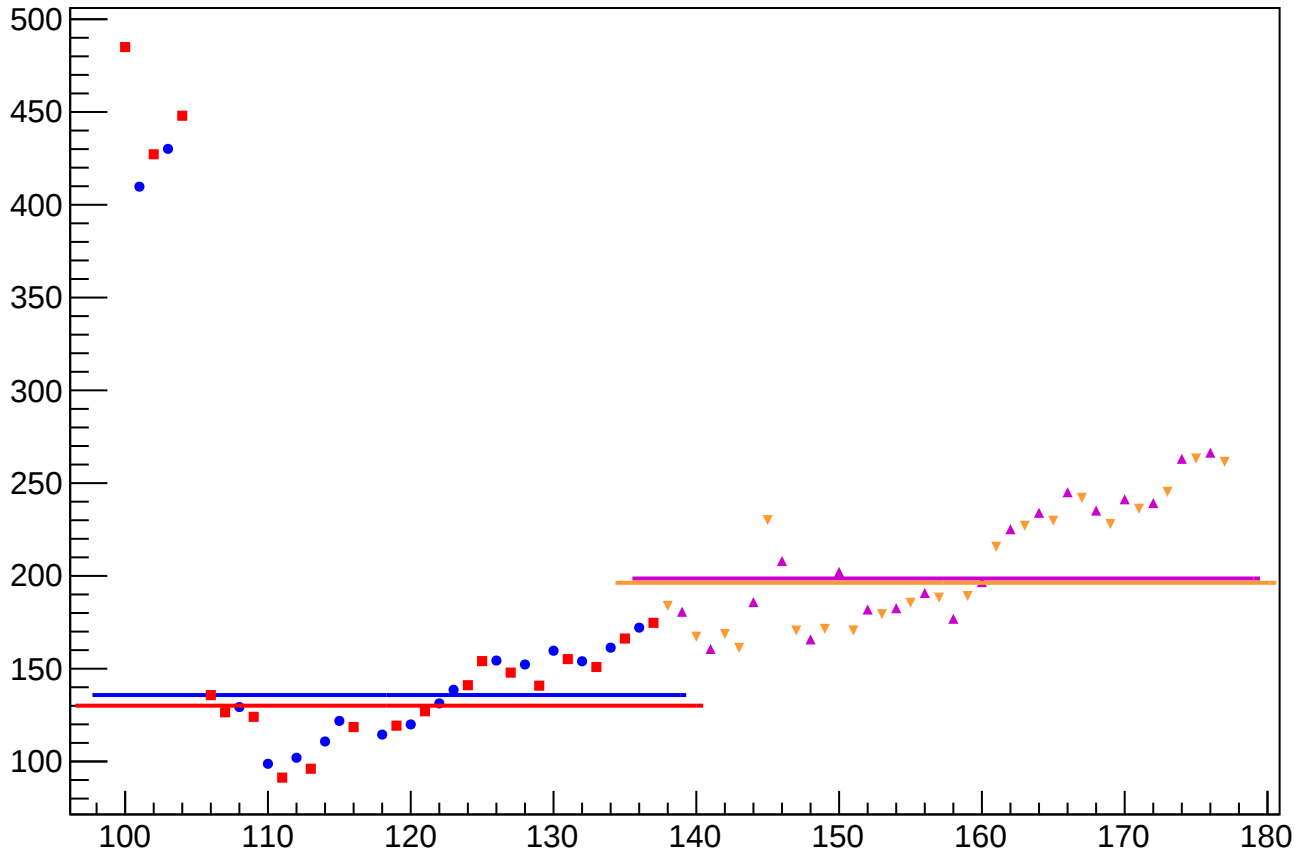
Left In: 134140.197 $\pm$ 0.053

χ^2 /NDF: 286530429.7/18

All: 133170.304 $\pm$ 0.026

χ^2 /NDF: 149242156.7/39

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2/NDF : 1441904.9/16

Left Out: 196.282 $\pm$ 0.036 χ^2/NDF : 757592.5/20

Right Out: 130.070 $\pm$ 0.037 χ^2/NDF : 1503997.6/18

Left In: 198.603 $\pm$ 0.037 χ^2/NDF : 636112.9/18

Left: 197.386 $\pm$ 0.026 χ^2/NDF : 1395735.4/39

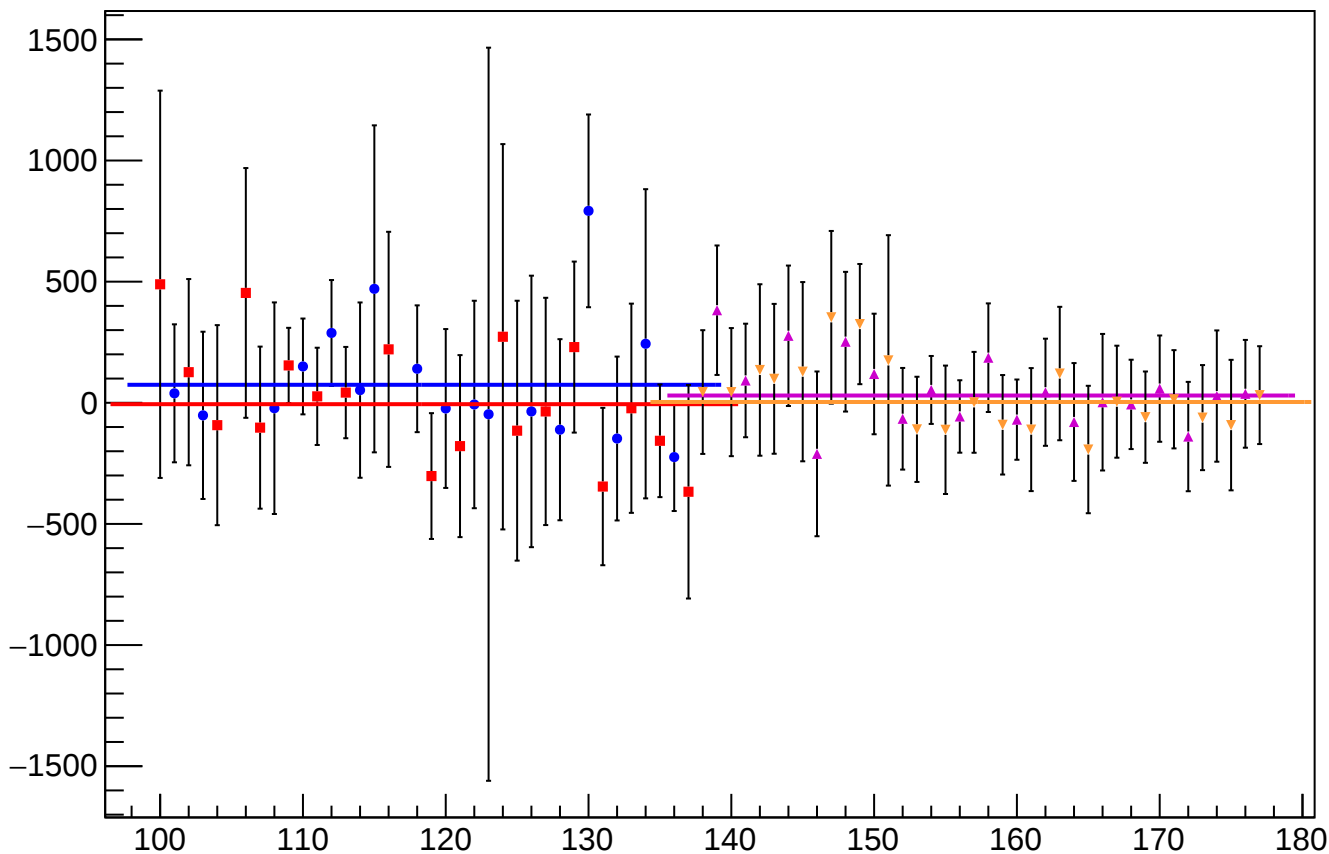
Right: 132.723 $\pm$ 0.027 χ^2/NDF : 2956918.0/35

In: 169.377 $\pm$ 0.027 χ^2/NDF : 3398212.7/35

Out: 164.655 $\pm$ 0.026 χ^2/NDF : 3921384.0/39

All: 166.874 $\pm$ 0.019 χ^2/NDF : 7335496.9/75

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294 +/- 79.018 χ^2/NDF : 7.7/16

Left Out: 3.301 +/- 54.280 χ^2/NDF : 5.1/20

Right Out: -5.739 +/- 70.069 χ^2/NDF : 7.1/18

Left In: 30.020 +/- 49.434 χ^2/NDF : 6.0/18

Left: 17.907 +/- 36.548 χ^2/NDF : 11.2/39

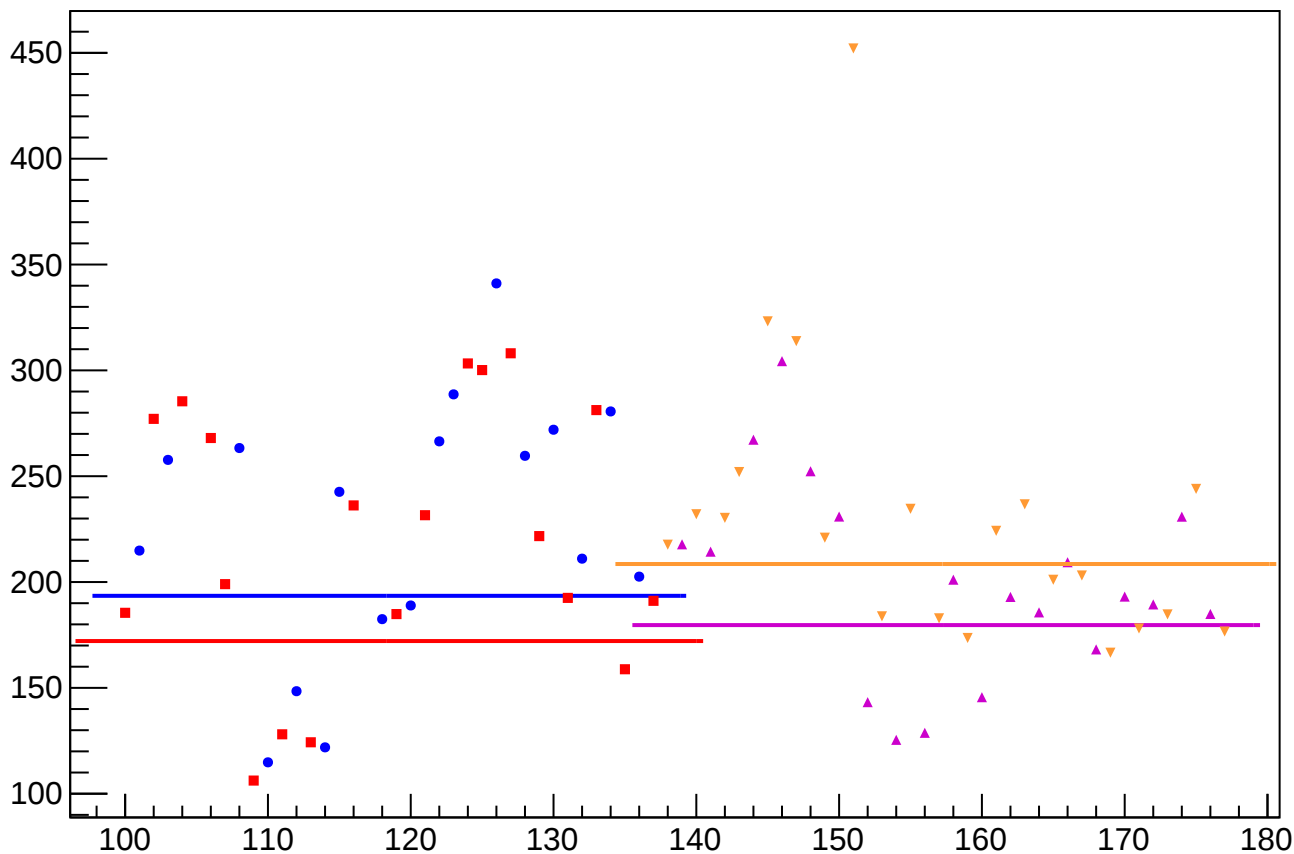
Right: 29.490 +/- 52.426 χ^2/NDF : 15.4/35

In: 42.474 +/- 41.909 χ^2/NDF : 13.9/35

Out: -0.089 +/- 42.911 χ^2/NDF : 12.2/39

All: 21.695 +/- 29.982 χ^2/NDF : 26.7/75

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 $\pm$ 0.056 χ^2/NDF : 1017195.7/16

Left Out: 208.514 $\pm$ 0.038 χ^2/NDF :1298831.6/20

Right Out: 172.122 $\pm$ 0.050 χ^2/NDF : 1579840.2/18

Left In: 179.660 $\pm$ 0.035 χ^2/NDF :1564206.6/18

Left: 192.742 $\pm$ 0.026 χ^2/NDF : 3171945.1/39

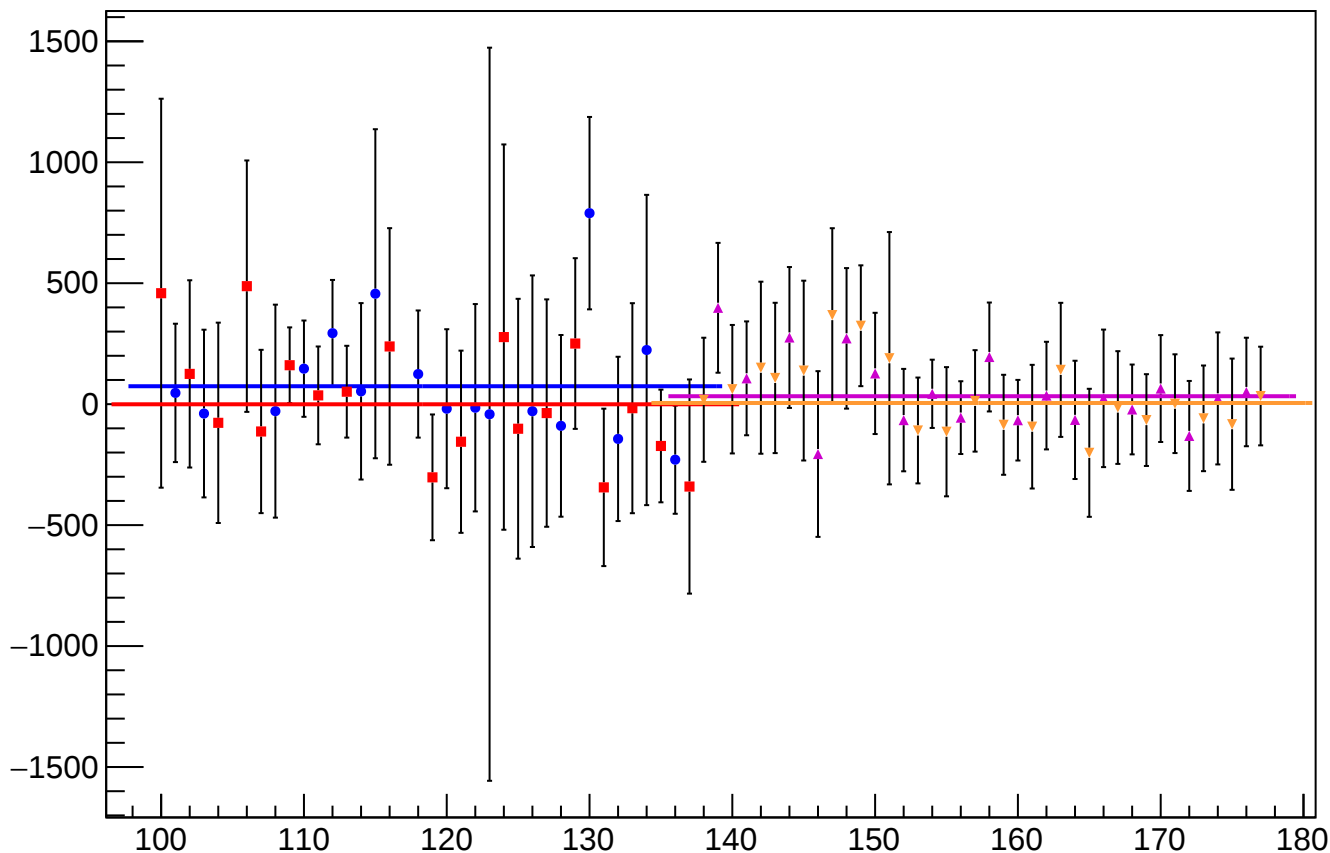
Right: 181.527 $\pm$ 0.037 χ^2/NDF : 2678891.2/35

In: 183.550 $\pm$ 0.030 χ^2/NDF :2625418.7/35

Out: 194.865 $\pm$ 0.030 χ^2/NDF :3215825.1/39

All: 189.074 $\pm$ 0.021 χ^2/NDF : 5912422.9/75

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 4.869 $\pm$ 54.651 χ^2 /NDF:5.3/20

Right Out: -0.503 $\pm$ 70.437 χ^2 /NDF: 7.3/18

Left In: 32.834 $\pm$ 49.752 χ^2 /NDF:6.2/18

Left: 20.161 $\pm$ 36.790 χ^2 /NDF: 11.6/39

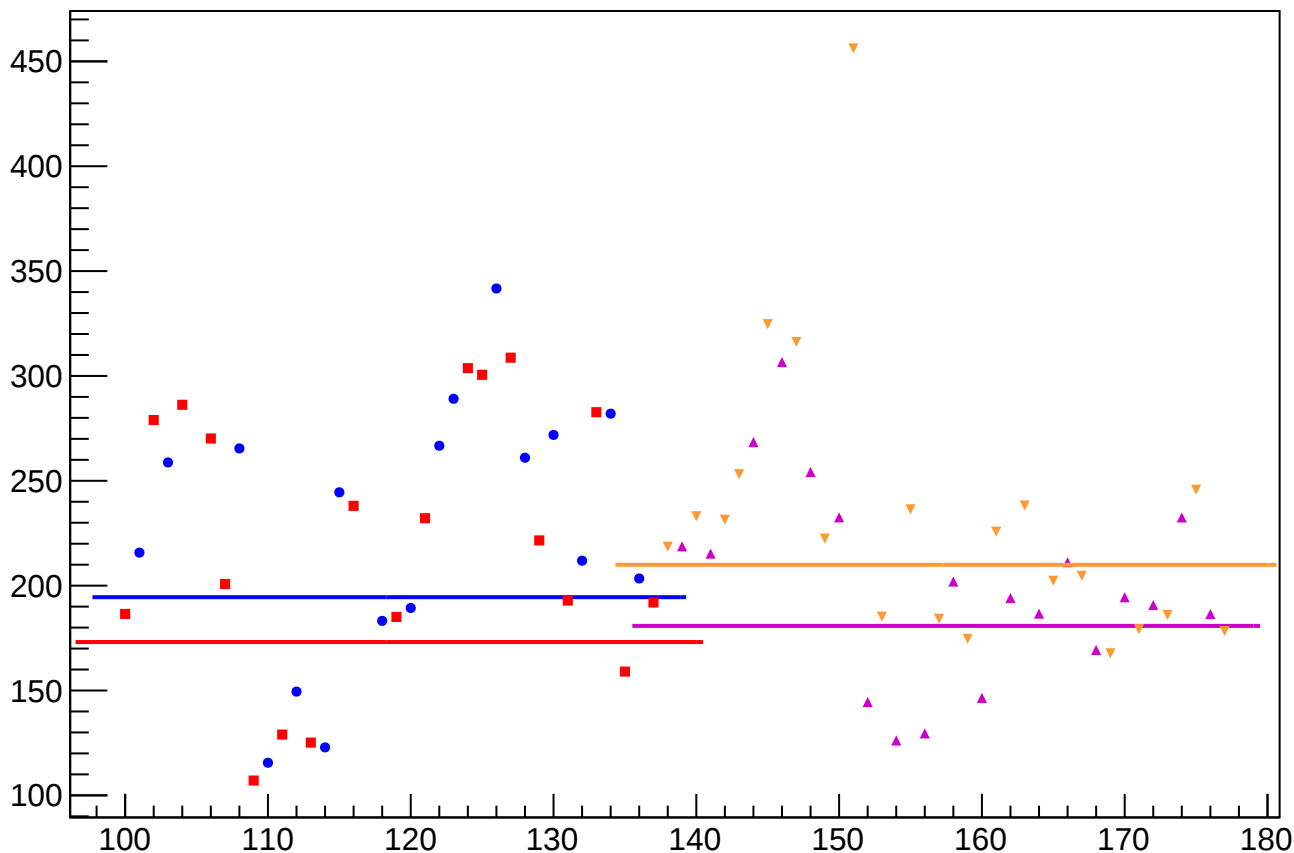
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 44.467 $\pm$ 42.160 χ^2 /NDF:13.9/35

Out: 2.850 $\pm$ 43.179 χ^2 /NDF:12.6/39

All: 24.155 $\pm$ 30.165 χ^2 /NDF: 27.0/75

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 ± 0.056 $\chi^2/\text{NDF}: 1008514.7/16$

Left Out: 209.944 ± 0.039 $\chi^2/\text{NDF}: 1295717.9/20$

Right Out: 173.111 ± 0.050 $\chi^2/\text{NDF}: 1567374.3/18$

Left In: 180.812 ± 0.035 $\chi^2/\text{NDF}: 1563663.0/18$

Left: 194.014 ± 0.026 $\chi^2/\text{NDF}: 3170133.0/39$

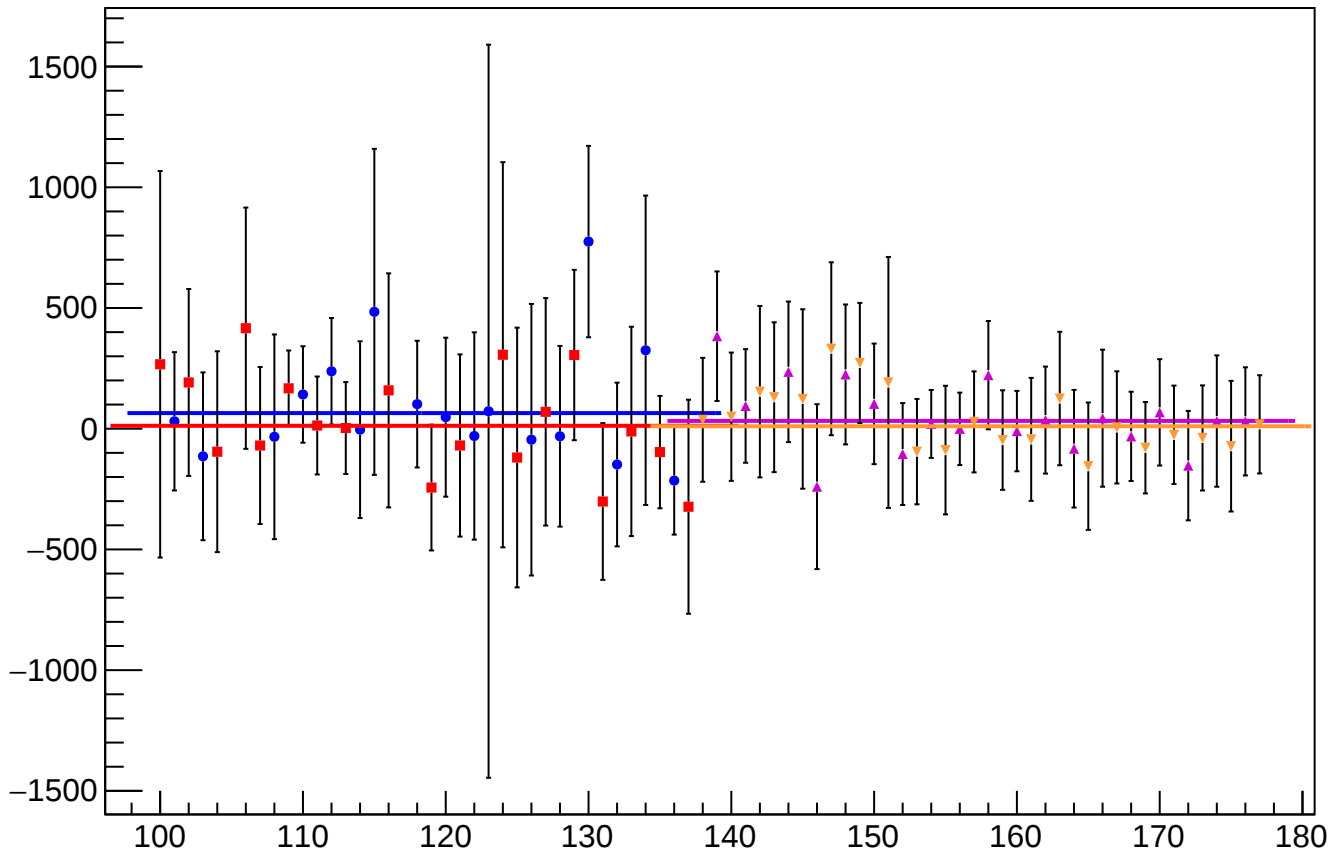
Right: 182.529 ± 0.037 $\chi^2/\text{NDF}: 2657073.5/35$

In: 184.670 ± 0.030 $\chi^2/\text{NDF}: 2614833.5/35$

Out: 196.103 ± 0.031 $\chi^2/\text{NDF}: 3204467.6/39$

All: 190.250 ± 0.021 $\chi^2/\text{NDF}: 5891084.9/75$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 10.069+/-54.520 χ^2/NDF : 3.9/20

Right Out: 12.094+/-70.361 χ^2/NDF : 5.8/18

Left In: 32.391+/-49.624 χ^2/NDF : 5.7/18

Left: 22.277+/-36.698 χ^2/NDF : 9.7/39

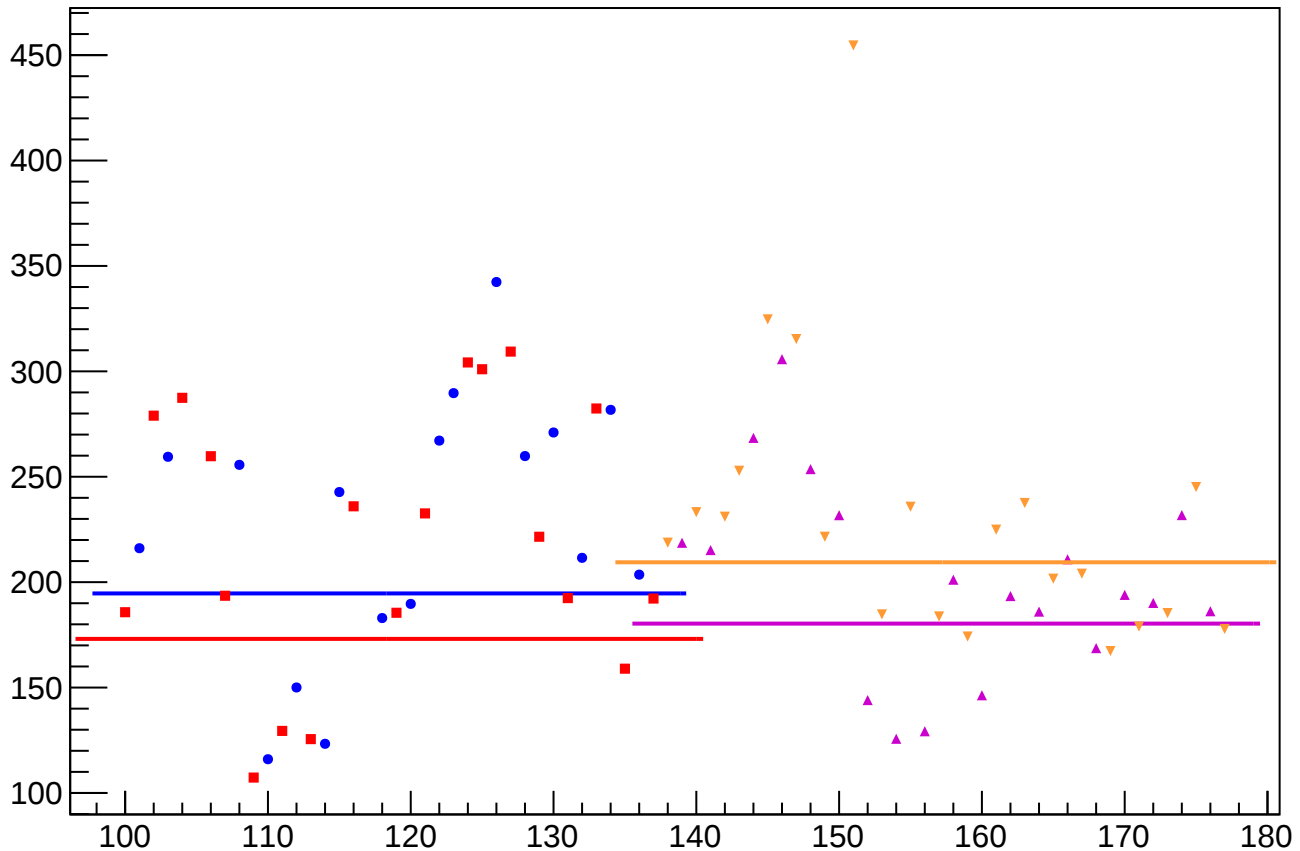
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 41.476+/-42.081 χ^2/NDF : 12.9/35

Out: 10.829+/-43.096 χ^2/NDF : 9.7/39

All: 26.518+/-30.108 χ^2/NDF : 22.9/75

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 ± 0.056 $\chi^2/\text{NDF}: 986798.9/16$

Left Out: 209.430 ± 0.039 $\chi^2/\text{NDF}: 1298254.7/20$

Right Out: 173.089 ± 0.050 $\chi^2/\text{NDF}: 1544540.9/18$

Left In: 180.338 ± 0.035 $\chi^2/\text{NDF}: 1567165.0/18$

Left: 193.520 ± 0.026 $\chi^2/\text{NDF}: 3176872.8/39$

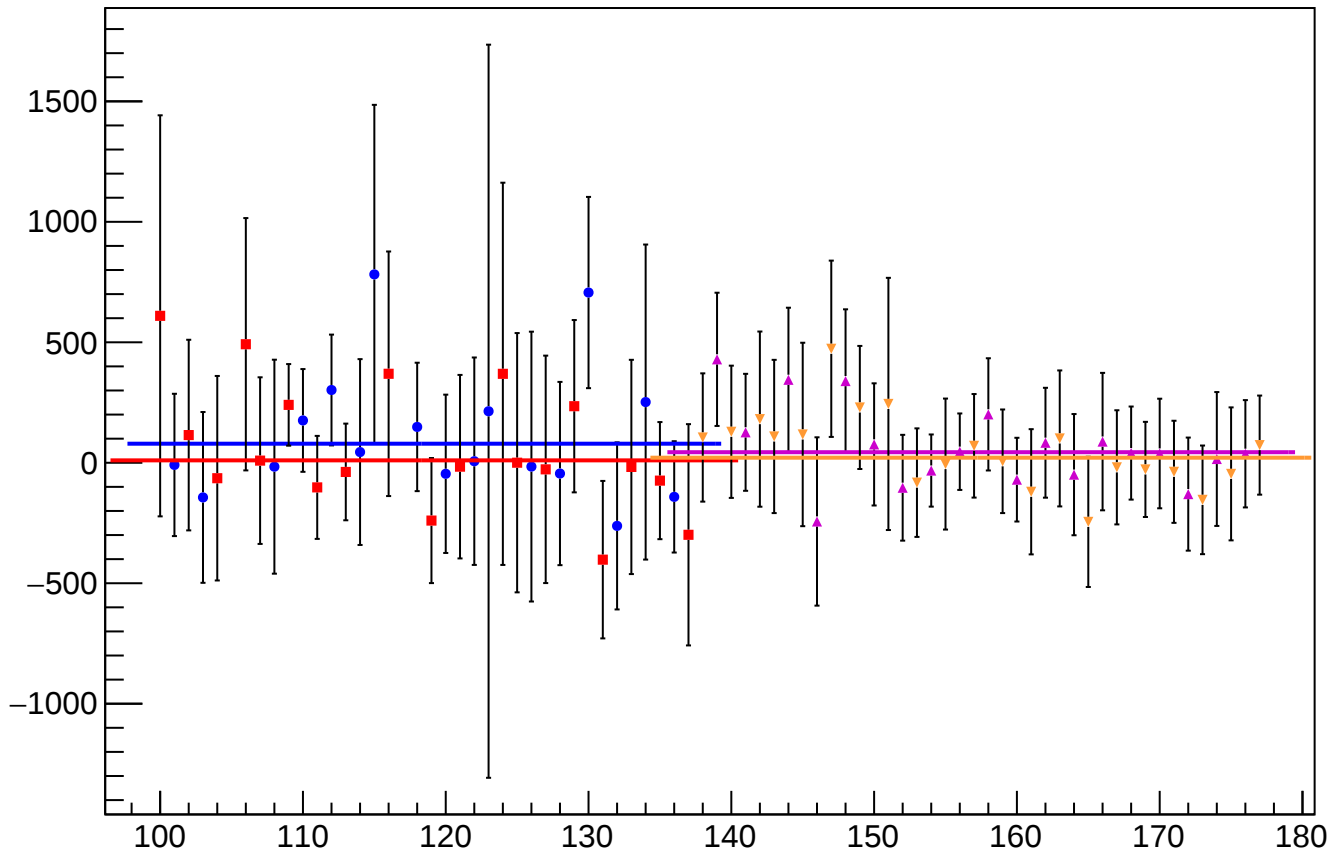
Right: 182.574 ± 0.037 $\chi^2/\text{NDF}: 2613964.4/35$

In: 184.359 ± 0.030 $\chi^2/\text{NDF}: 2600705.7/35$

Out: 195.796 ± 0.030 $\chi^2/\text{NDF}: 3176178.8/39$

All: 189.941 ± 0.021 $\chi^2/\text{NDF}: 5849001.0/75$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2 /NDF: 7.5/16

Left Out: 21.061 $\pm$ 56.077 χ^2 /NDF: 5.5/20

Right Out: 9.982 $\pm$ 73.310 χ^2 /NDF: 7.9/18

Left In: 43.841 $\pm$ 51.460 χ^2 /NDF: 7.1/18

Left: 33.428 $\pm$ 37.915 χ^2 /NDF: 12.7/39

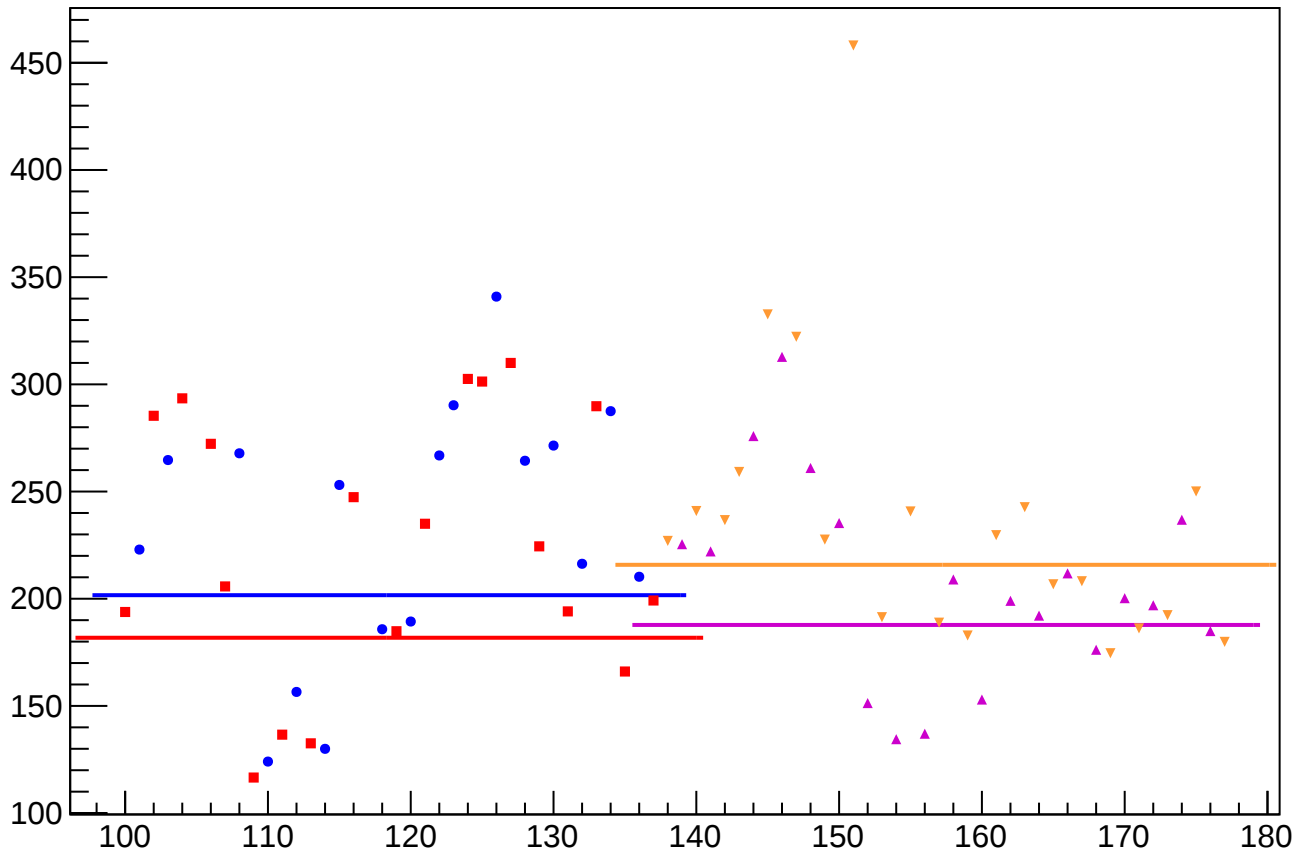
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 53.834 $\pm$ 43.569 χ^2 /NDF: 14.7/35

Out: 16.971 $\pm$ 44.541 χ^2 /NDF: 13.4/39

All: 35.809 $\pm$ 31.146 χ^2 /NDF: 28.4/75

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654 $\pm$ 0.058 χ^2 /NDF: 883179.7/16

Left Out: 215.822 $\pm$ 0.040 χ^2 /NDF:1241165.7/20

Right Out: 181.797 $\pm$ 0.052 χ^2 /NDF: 1377449.9/18

Left In: 187.771 $\pm$ 0.036 χ^2 /NDF:1406475.8/18

Left: 200.594 $\pm$ 0.027 χ^2 /NDF: 2919312.9/39

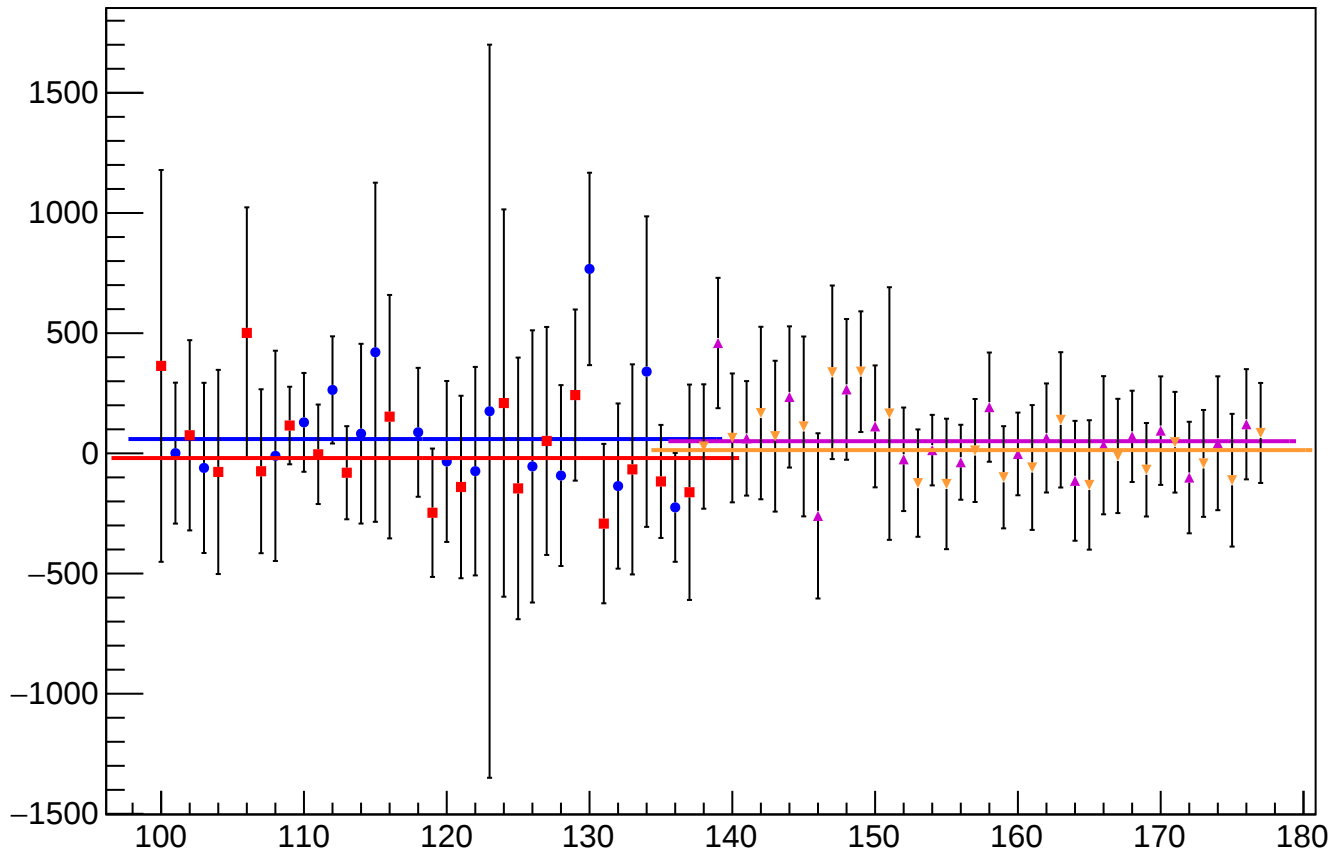
Right: 190.633 $\pm$ 0.039 χ^2 /NDF: 2325921.8/35

In: 191.702 $\pm$ 0.031 χ^2 /NDF:2330877.3/35

Out: 203.262 $\pm$ 0.031 χ^2 /NDF:2890402.8/39

All: 197.355 $\pm$ 0.022 χ^2 /NDF: 5290126.7/75

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 13.511 $\pm$ 55.624 χ^2 /NDF:5.0/20

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 50.588 $\pm$ 50.883 χ^2 /NDF:6.1/18

Left: 33.697 $\pm$ 37.544 χ^2 /NDF: 11.3/39

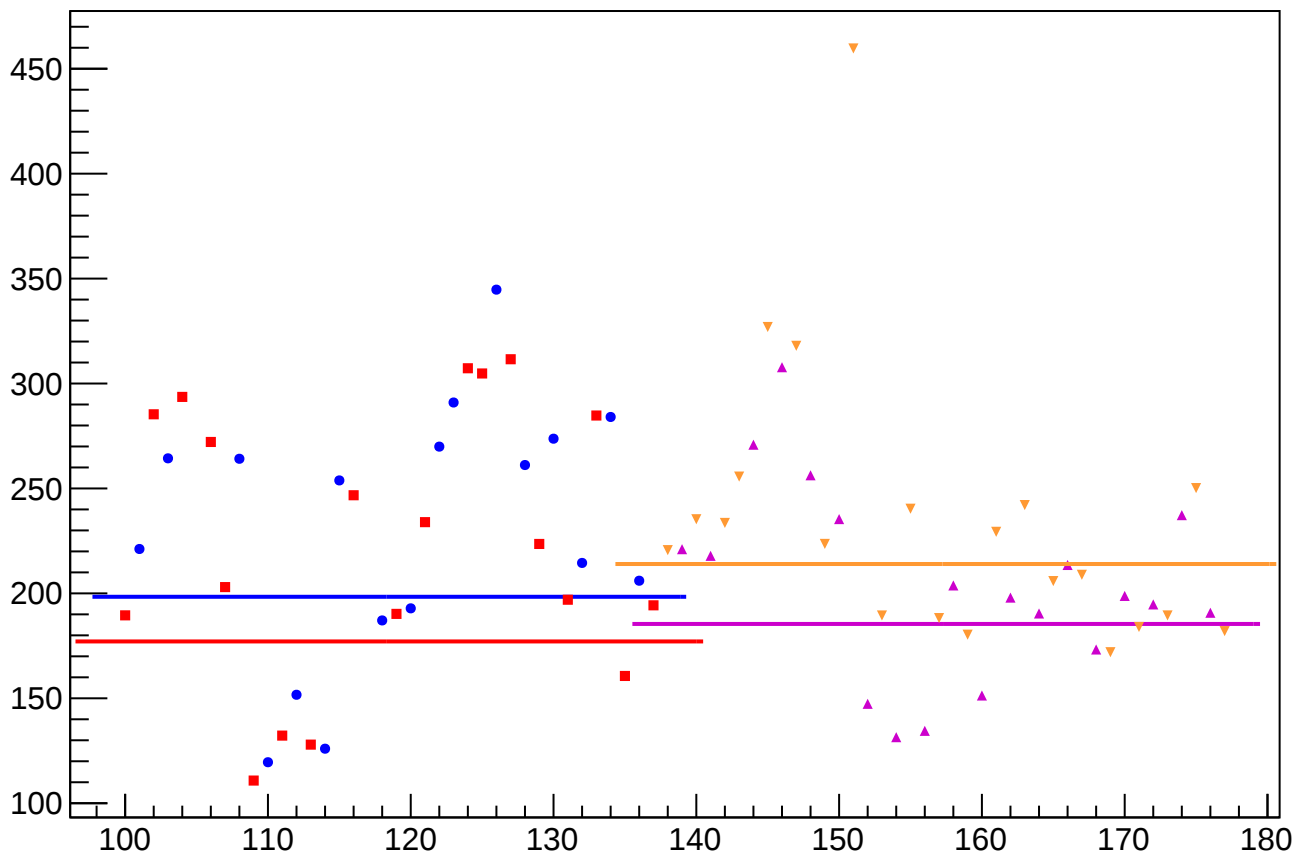
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 53.117 $\pm$ 43.058 χ^2 /NDF:13.1/35

Out: 1.129 $\pm$ 43.987 χ^2 /NDF:9.9/39

All: 27.678 $\pm$ 30.770 χ^2 /NDF: 23.7/75

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 213.994+/-0.039 χ^2/NDF :1235175.3/20

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 185.432+/-0.036 χ^2/NDF :1441560.0/18

Left: 198.444+/-0.027 χ^2/NDF : 2963828.6/39

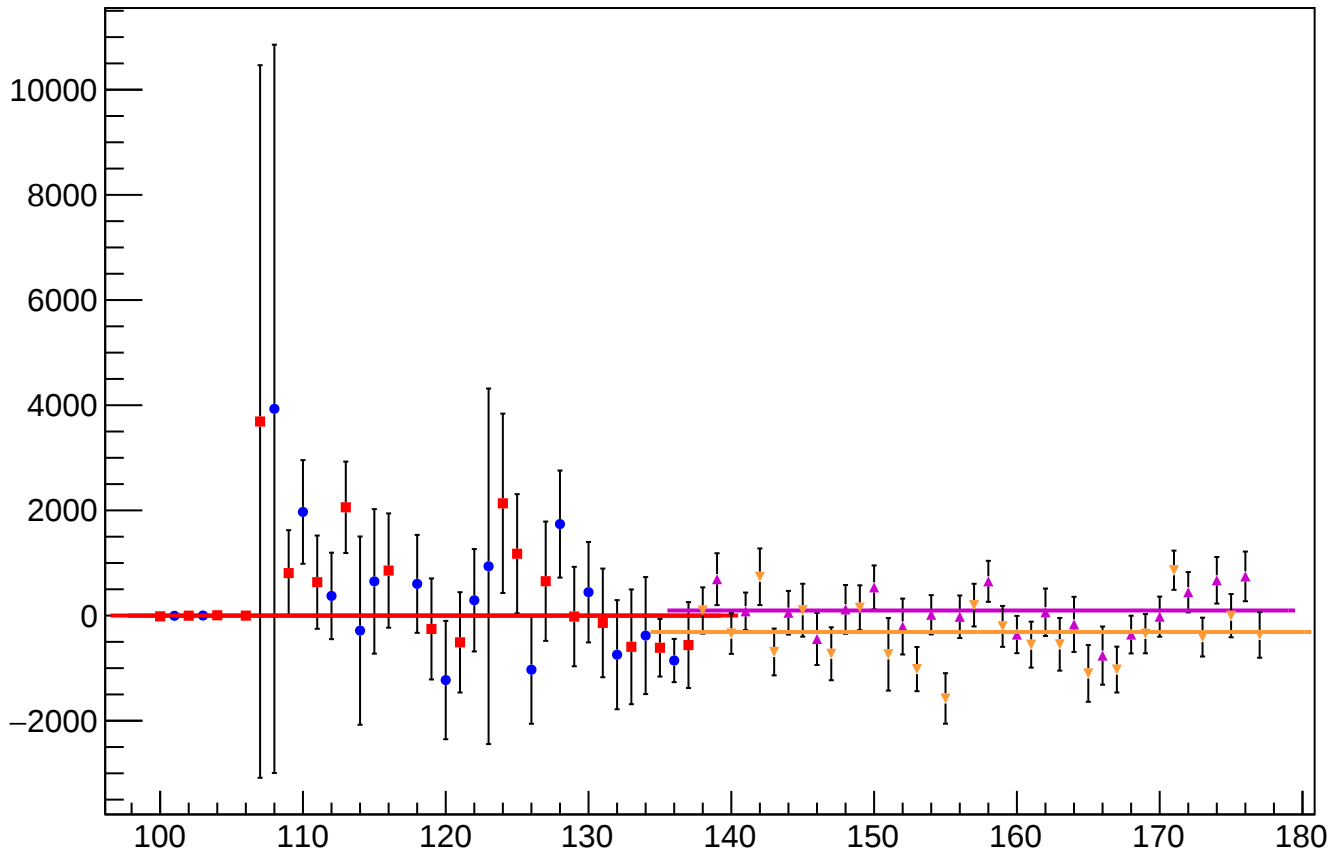
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 189.107+/-0.030 χ^2/NDF :2441993.3/35

Out: 200.171+/-0.031 χ^2/NDF :3089638.3/39

All: 194.521+/-0.022 χ^2/NDF : 5596237.0/75

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -312.349 ± 95.588 χ^2/NDF : 35.7/20

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 96.630 ± 96.886 χ^2/NDF : 16.7/18

Left: -110.616 ± 68.045 χ^2/NDF : 61.4/39

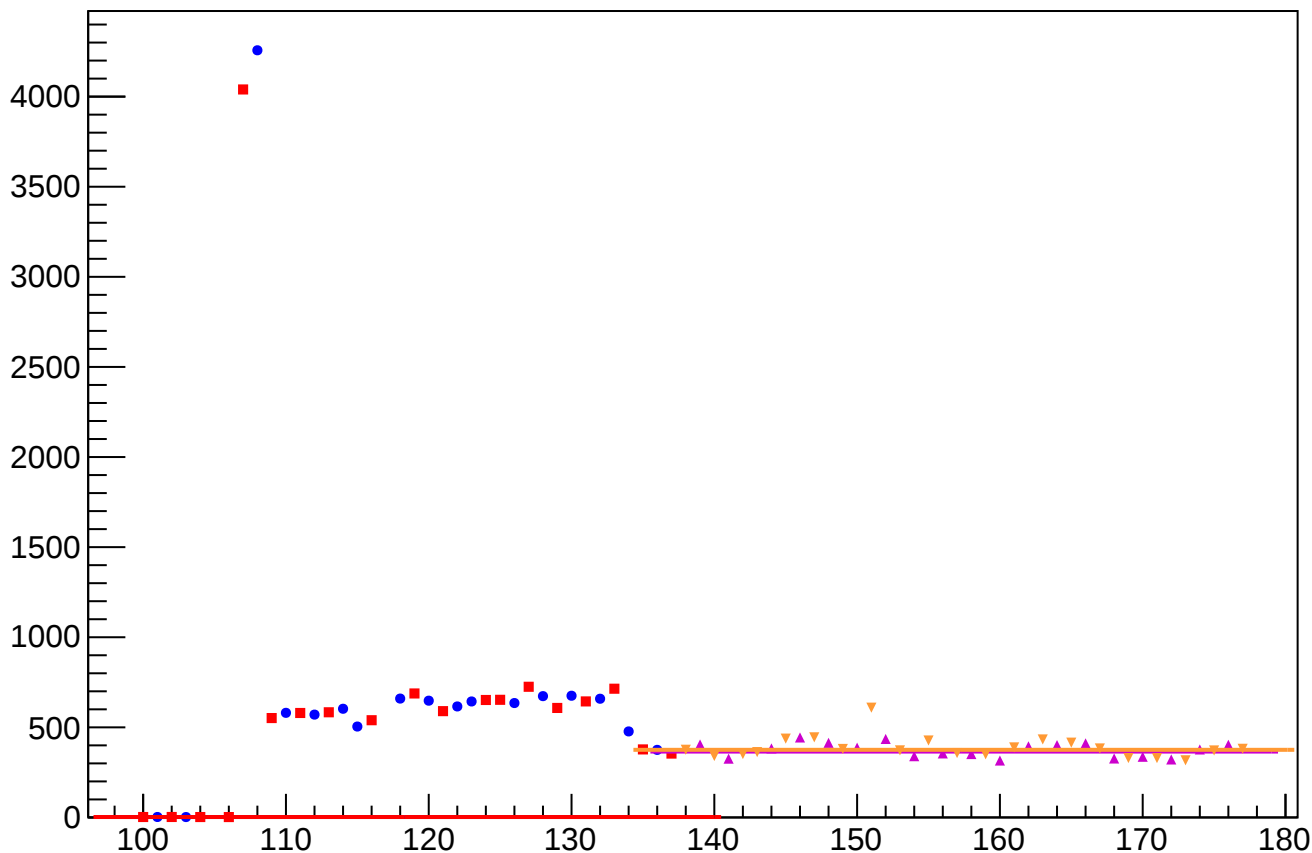
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.476 ± 2.251 χ^2/NDF : 34.7/35

Out: 0.574 ± 2.111 χ^2/NDF : 65.7/39

All: -0.385 ± 1.540 χ^2/NDF : 100.8/75

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 375.308+/-0.068 χ^2/NDF : 505683.6/20

Right Out: 2.437+/-0.001 χ^2/NDF : 11147393.9/18

Left In: 365.592+/-0.069 χ^2/NDF : 311140.9/18

Left: 370.515+/-0.048 χ^2/NDF : 827016.0/39

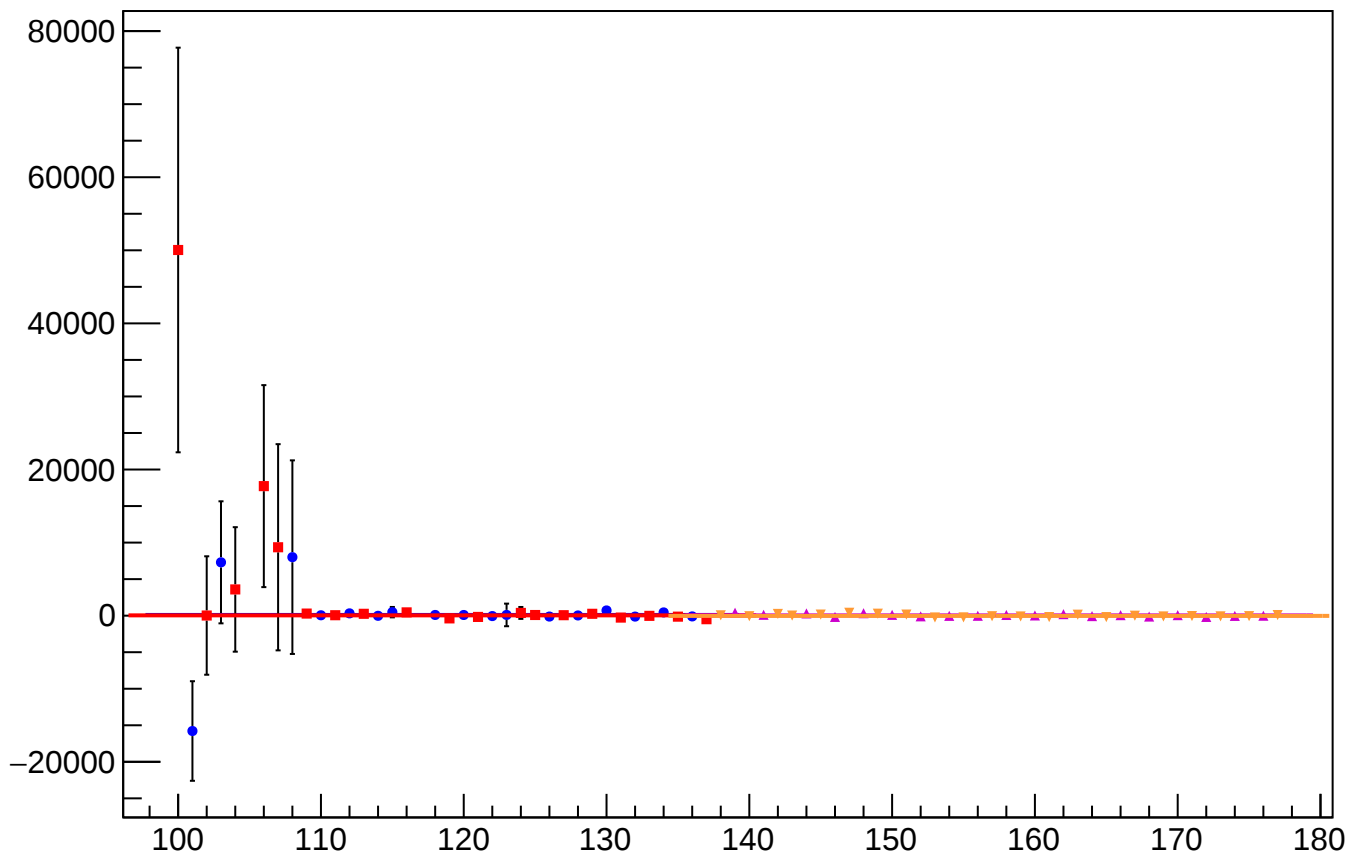
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.653+/-0.002 χ^2/NDF : 39240099.9/35

Out: 2.619+/-0.001 χ^2/NDF : 42070678.0/39

All: 2.634+/-0.001 χ^2/NDF : 81311022.5/75

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -29.124+/-57.173 χ^2/NDF : 6.6/20

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 39.124+/-53.545 χ^2/NDF : 6.9/18

Left: 7.234+/-39.082 χ^2/NDF : 14.2/39

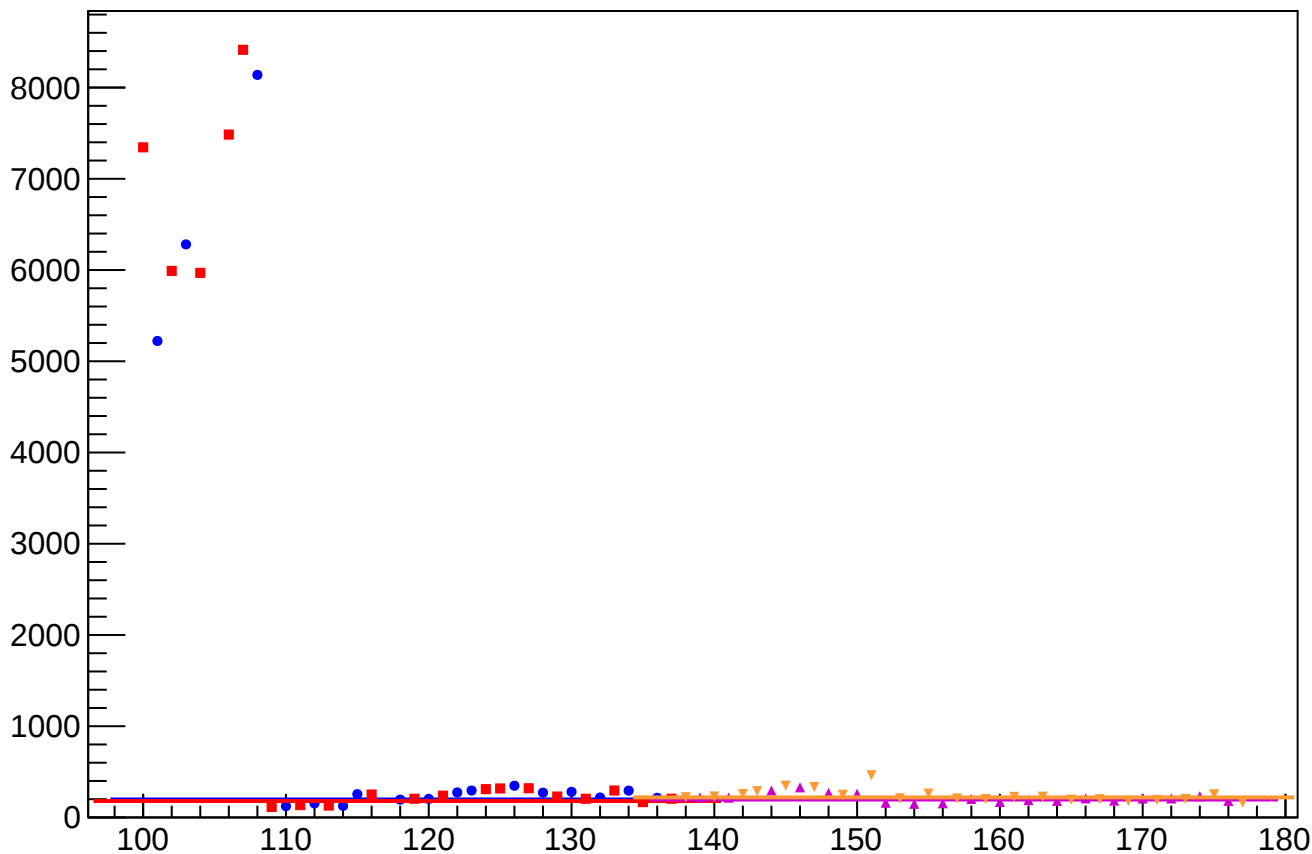
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 54.467+/-46.131 χ^2/NDF : 19.1/35

Out: -6.692+/-47.352 χ^2/NDF : 21.0/39

All: 24.686+/-33.043 χ^2/NDF : 40.9/75

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 219.782+/-0.040 χ^2/NDF :1363283.4/20

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 196.594+/-0.038 χ^2/NDF :1123993.1/18

Left: 207.429+/-0.028 χ^2/NDF : 2662532.3/39

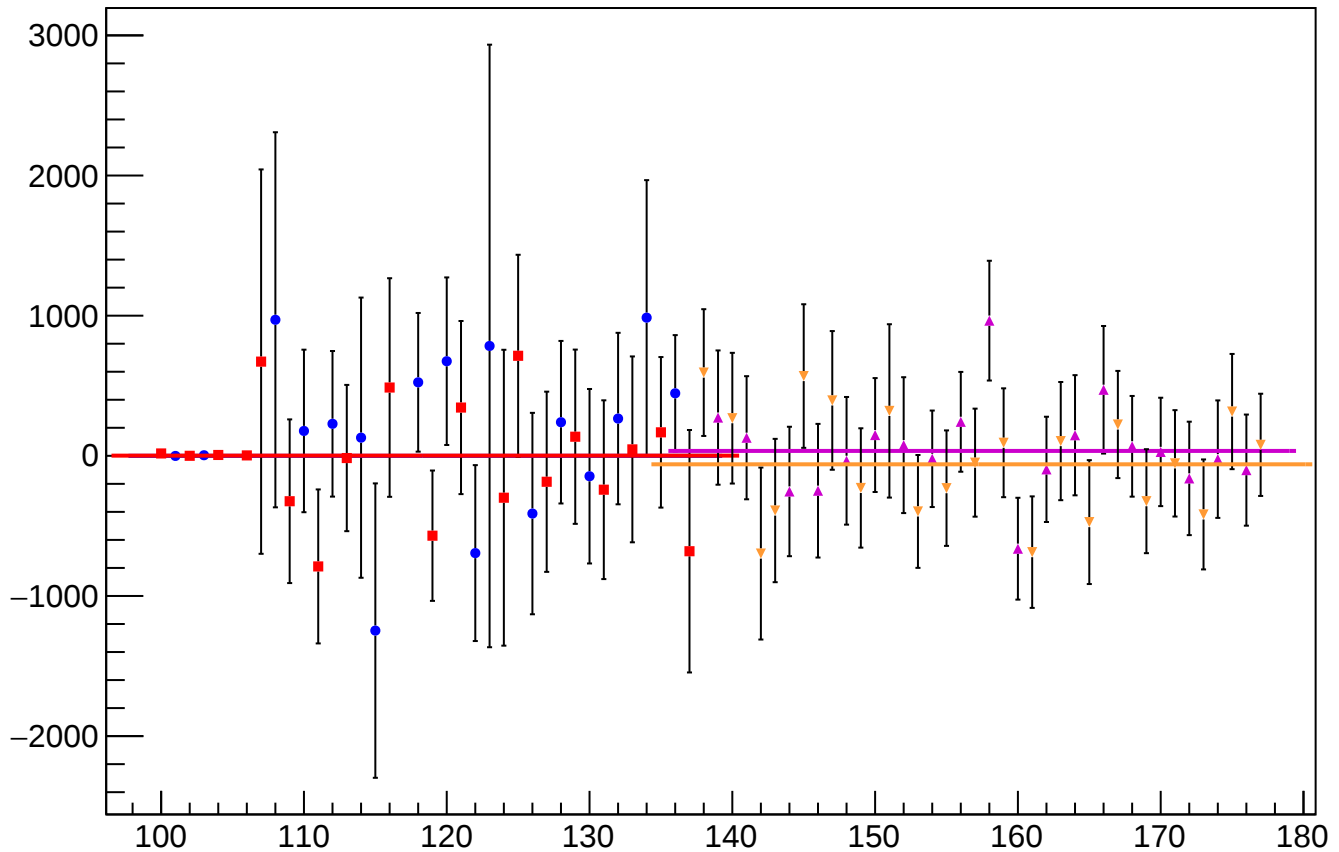
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.721+/-0.033 χ^2/NDF :4817650.5/35

Out: 207.272+/-0.033 χ^2/NDF :5989335.1/39

All: 201.859+/-0.023 χ^2/NDF : 10857936.9/75

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -60.555 ± 93.068 χ^2/NDF : 14.4/20

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 34.930 ± 94.037 χ^2/NDF : 11.4/18

Left: -13.307 ± 66.149 χ^2/NDF : 26.3/39

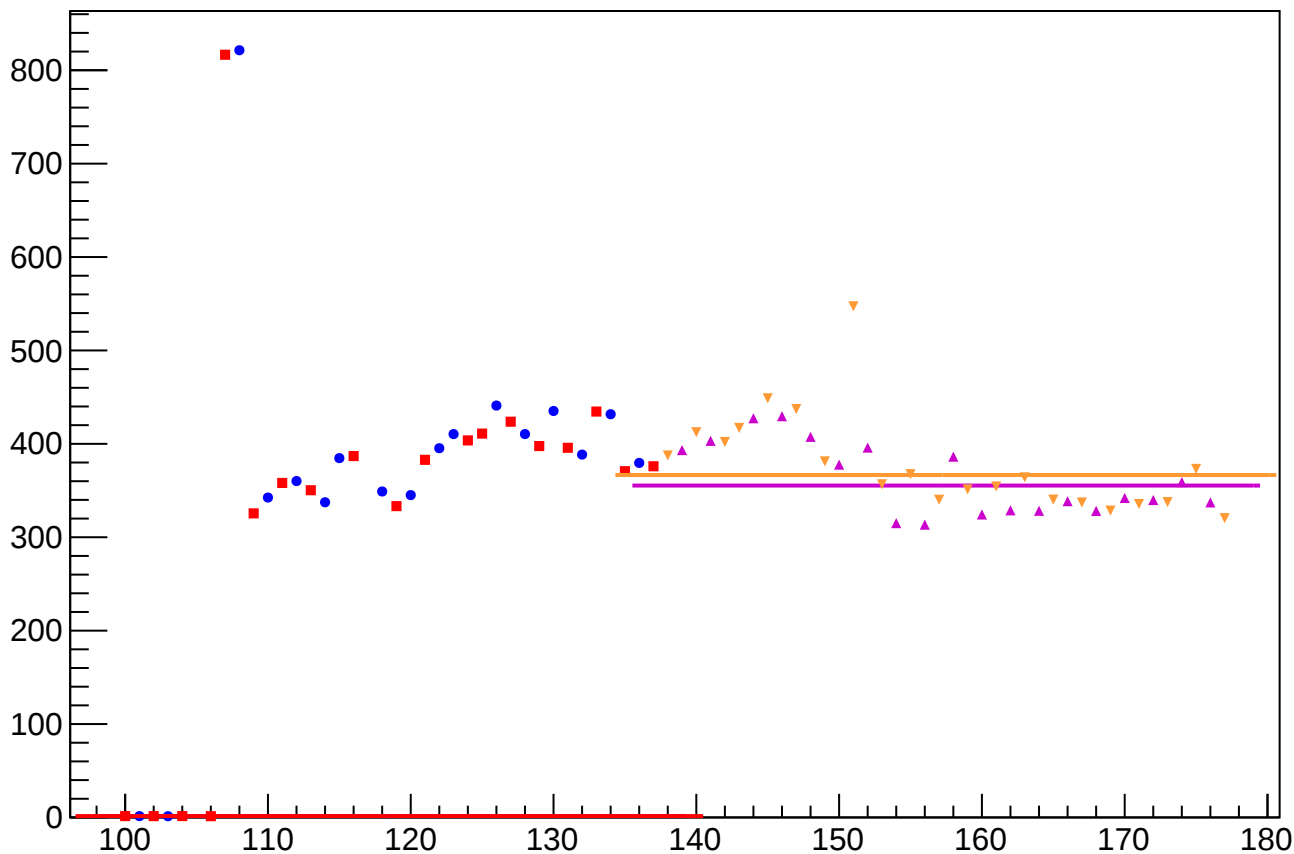
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.126 ± 1.736 χ^2/NDF : 21.3/35

Out: 1.305 ± 1.622 χ^2/NDF : 24.4/39

All: 0.638 ± 1.185 χ^2/NDF : 46.1/75

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 366.637+/-0.066 χ^2/NDF : 427569.6/20

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 355.352+/-0.066 χ^2/NDF : 301415.6/18

Left: 361.053+/-0.047 χ^2/NDF : 743535.2/39

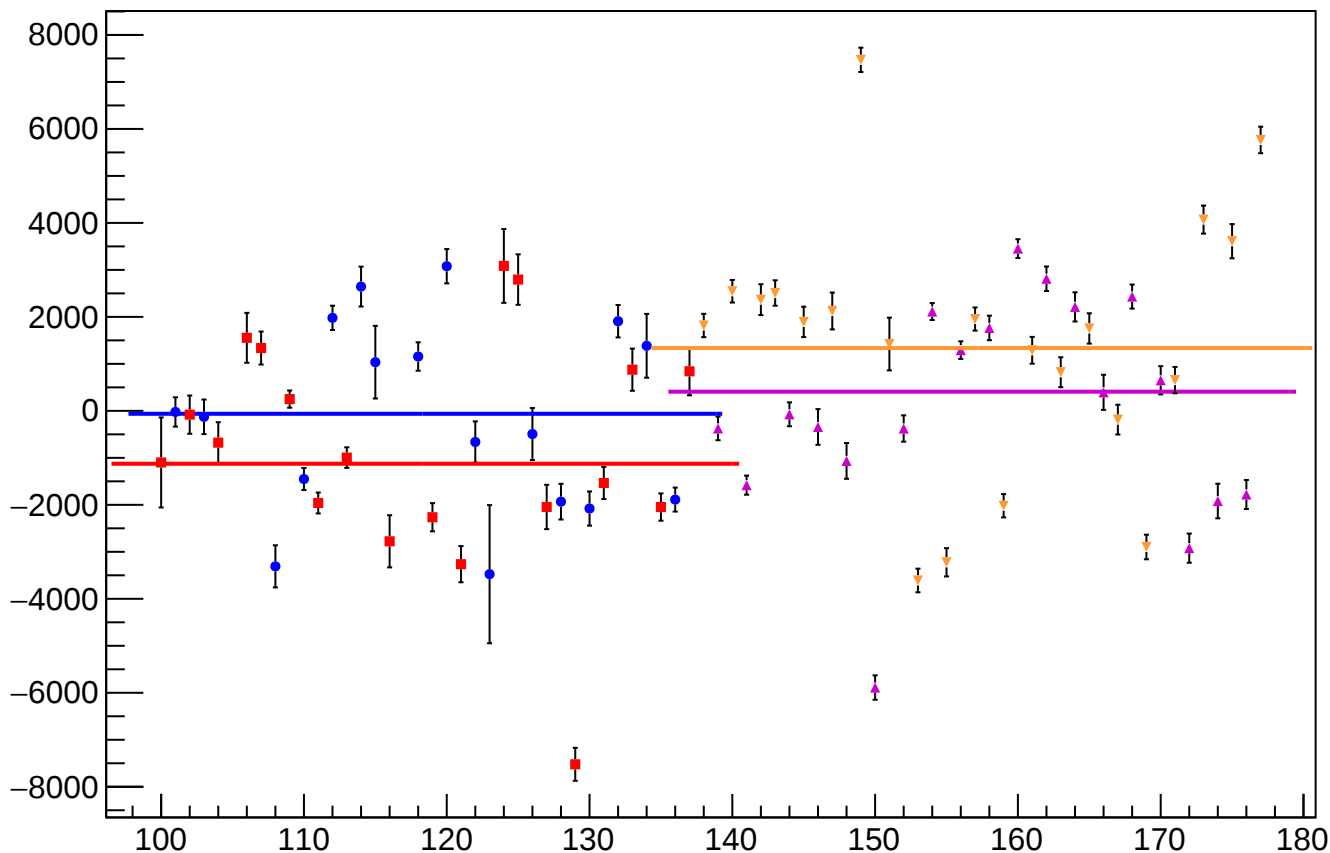
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.573+/-0.001 χ^2/NDF : 39576012.4/35

Out: 1.562+/-0.001 χ^2/NDF : 42092141.2/39

All: 1.567+/-0.001 χ^2/NDF : 81668200.1/75

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 χ^2/NDF : 433.9/16

Left Out: 1337.129 ± 63.158 χ^2/NDF : 2095.4/20

Right Out: -1125.437 ± 78.370 χ^2/NDF : 671.2/18

Left In: 408.148 ± 59.501 χ^2/NDF : 1482.7/18

Left: 844.966 ± 43.309 χ^2/NDF : 3692.7/39

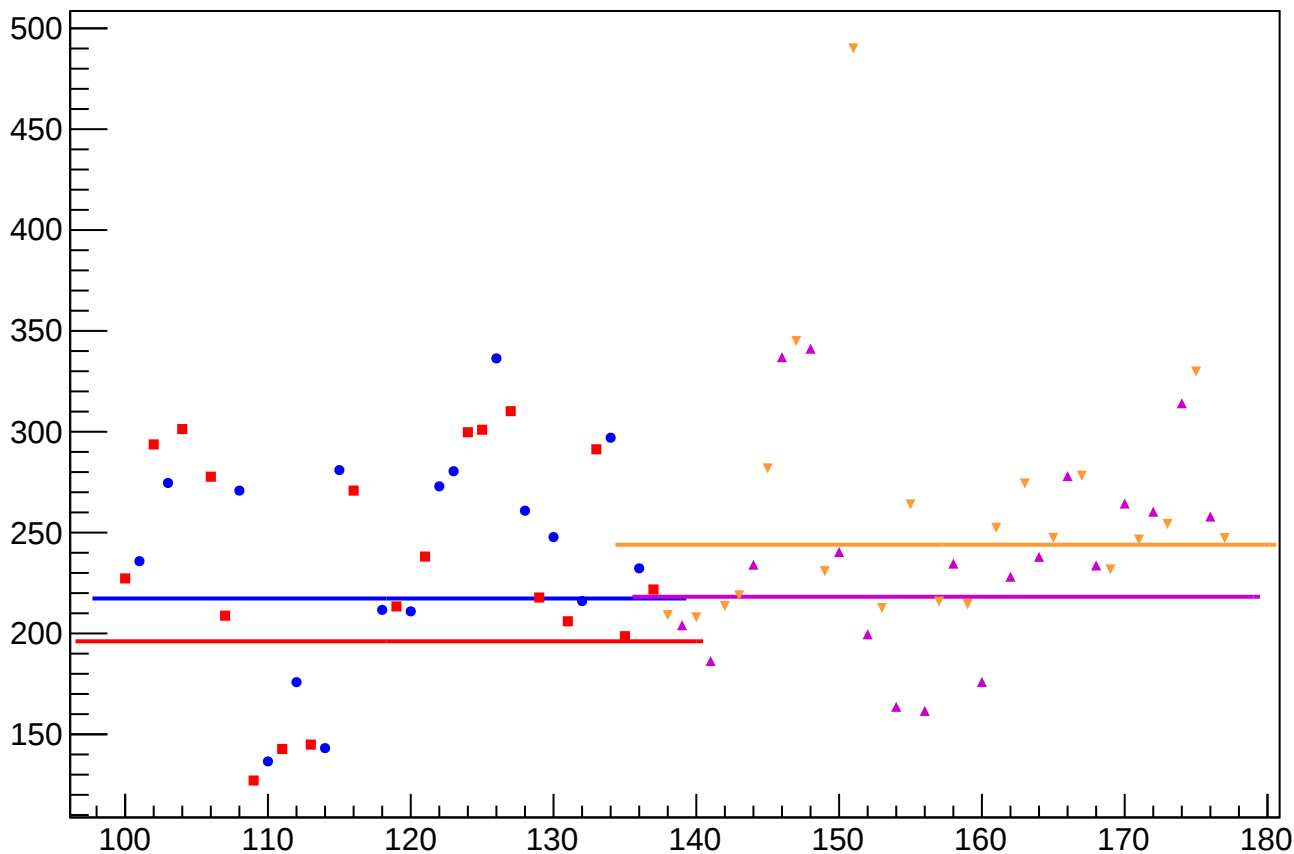
Right: -651.694 ± 58.355 χ^2/NDF : 1187.1/35

In: 259.258 ± 49.189 χ^2/NDF : 1936.3/35

Out: 367.504 ± 49.176 χ^2/NDF : 3365.3/39

All: 313.395 ± 34.777 χ^2/NDF : 5304.0/75

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330+/-0.062 χ^2/NDF : 652722.5/16

Left Out: 243.993+/-0.045 χ^2/NDF : 925015.7/20

Right Out: 196.105+/-0.055 χ^2/NDF : 1190733.6/18

Left In: 218.195+/-0.042 χ^2/NDF : 1274472.2/18

Left: 230.325+/-0.031 χ^2/NDF : 2376266.9/39

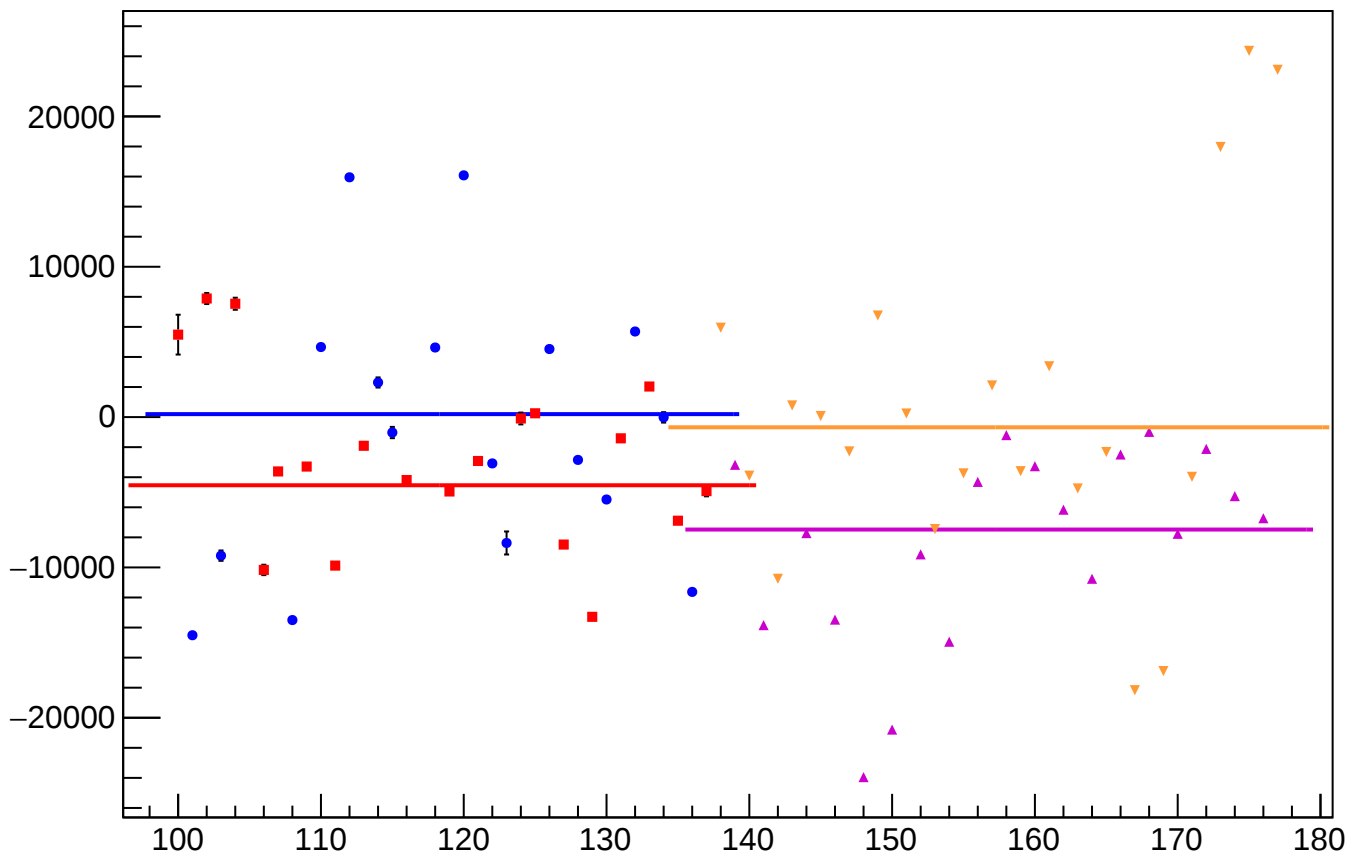
Right: 205.562+/-0.041 χ^2/NDF : 1908816.5/35

In: 217.921+/-0.035 χ^2/NDF : 1927328.6/35

Out: 225.137+/-0.035 χ^2/NDF : 2568472.3/39

All: 221.530+/-0.025 χ^2/NDF : 4517326.8/75

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -679.019+/-44.315 χ^2/NDF : 52869.3/20

Right Out: -4534.200+/-52.462 χ^2/NDF : 7477.2/18

Left In: -7479.863+/-46.370 χ^2/NDF : 17297.4/18

Left: -3925.415+/-32.037 χ^2/NDF : 81409.3/39

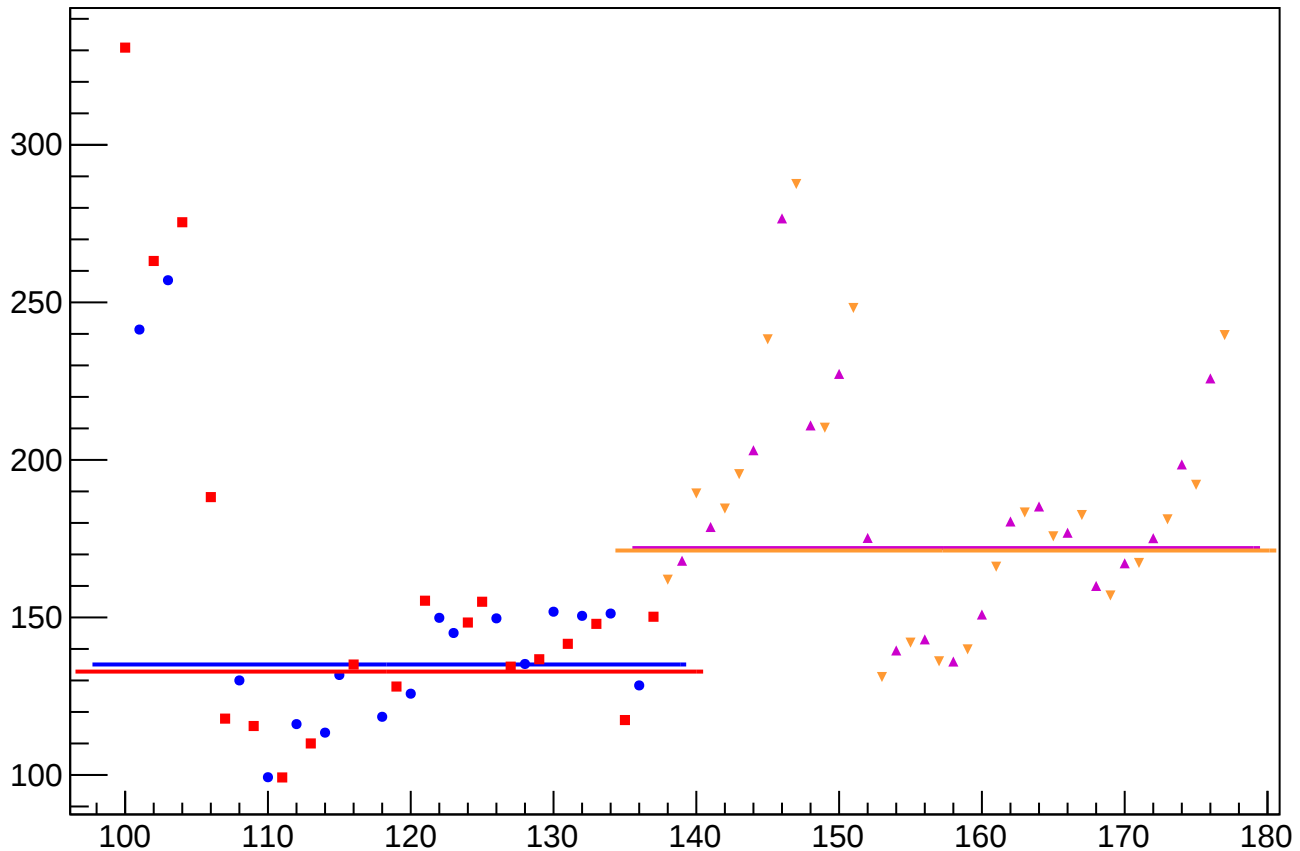
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4276.619+/-35.397 χ^2/NDF : 59392.6/35

Out: -2284.355+/-33.853 χ^2/NDF : 63498.0/39

All: -3236.090+/-24.466 χ^2/NDF : 124545.0/77

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 171.246 $\pm$ 0.031 χ^2 /NDF: 1181064.4/20

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 172.015 $\pm$ 0.033 χ^2 /NDF: 854493.3/18

Left: 171.613 $\pm$ 0.023 χ^2 /NDF: 2035845.4/39

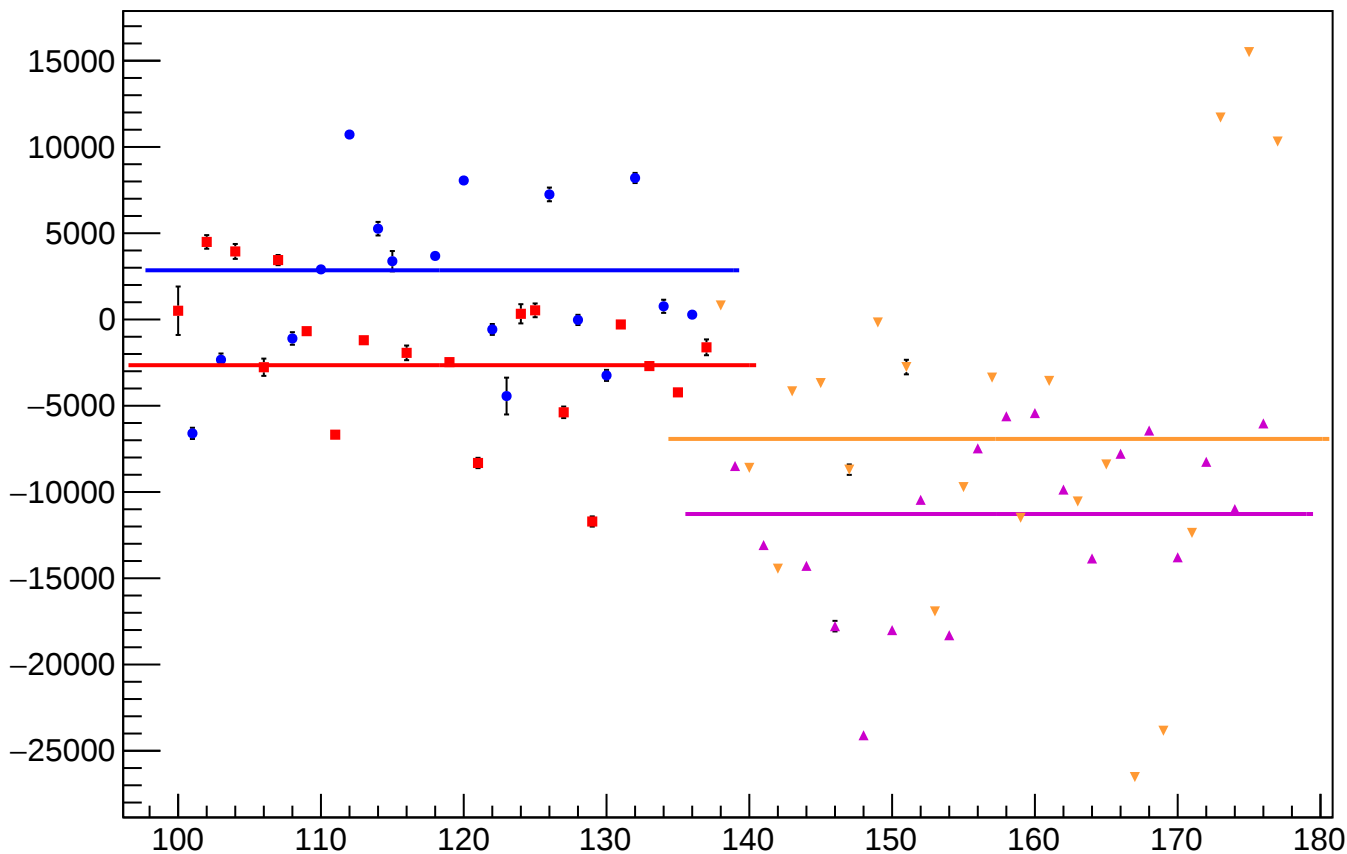
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 156.600 $\pm$ 0.025 χ^2 /NDF: 2042904.3/35

Out: 155.243 $\pm$ 0.024 χ^2 /NDF: 2638559.4/39

All: 155.891 $\pm$ 0.017 χ^2 /NDF: 4682998.4/75

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -6923.044+/-49.472 χ^2/NDF :44540.6/20

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11275.058+/-47.256 χ^2/NDF :11295.1/18

Left: -9198.701+/-34.171 χ^2/NDF : 59882.2/39

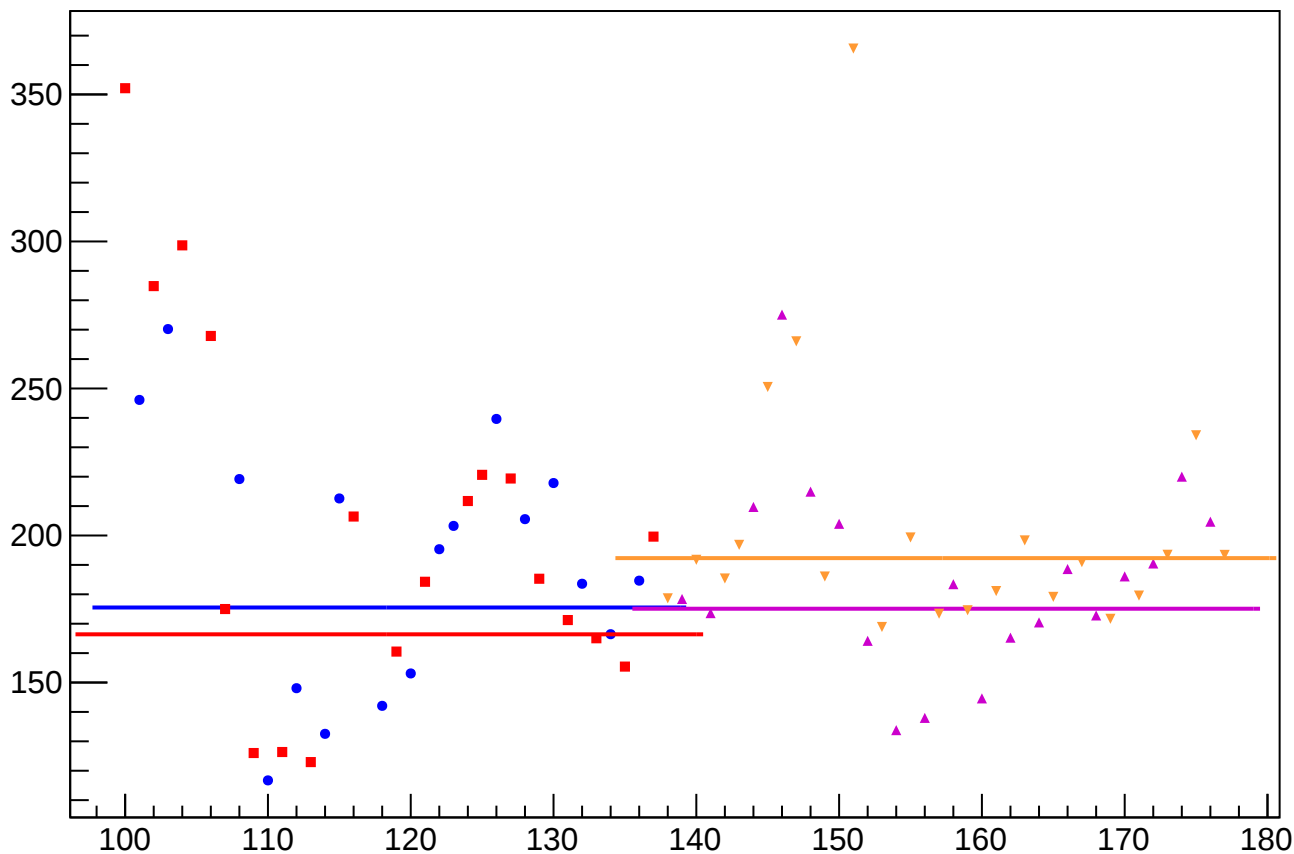
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6917.373+/-39.297 χ^2/NDF :43039.8/35

Out: -5377.511+/-39.527 χ^2/NDF :50415.2/39

All: -6151.941+/-27.868 χ^2/NDF : 94218.2/75

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 192.308 $\pm$ 0.035 χ^2 /NDF: 711123.1/20

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 175.096 $\pm$ 0.033 χ^2 /NDF: 807542.6/18

Left: 183.307 $\pm$ 0.024 χ^2 /NDF: 1645253.2/39

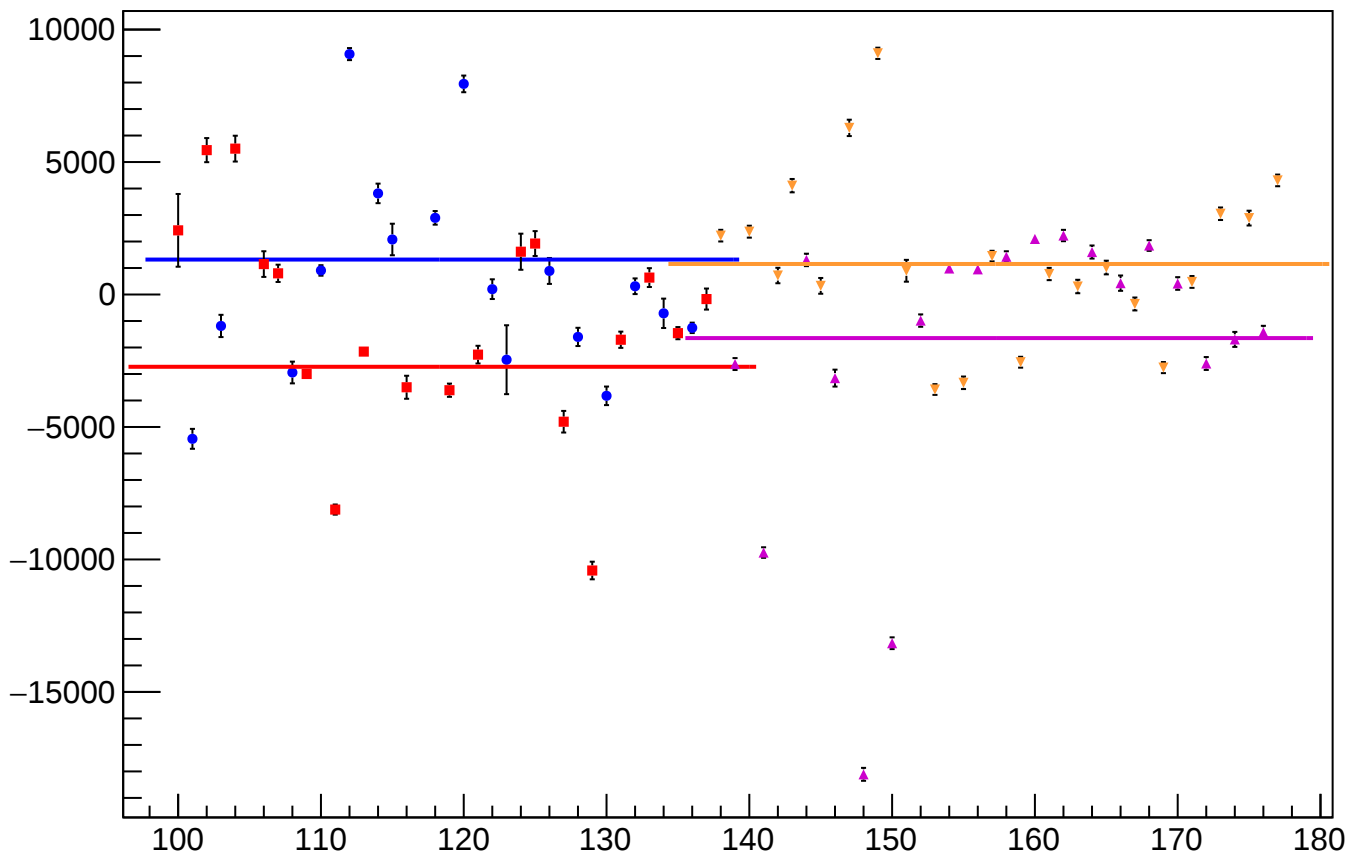
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 175.225 $\pm$ 0.028 χ^2 /NDF: 1497233.2/35

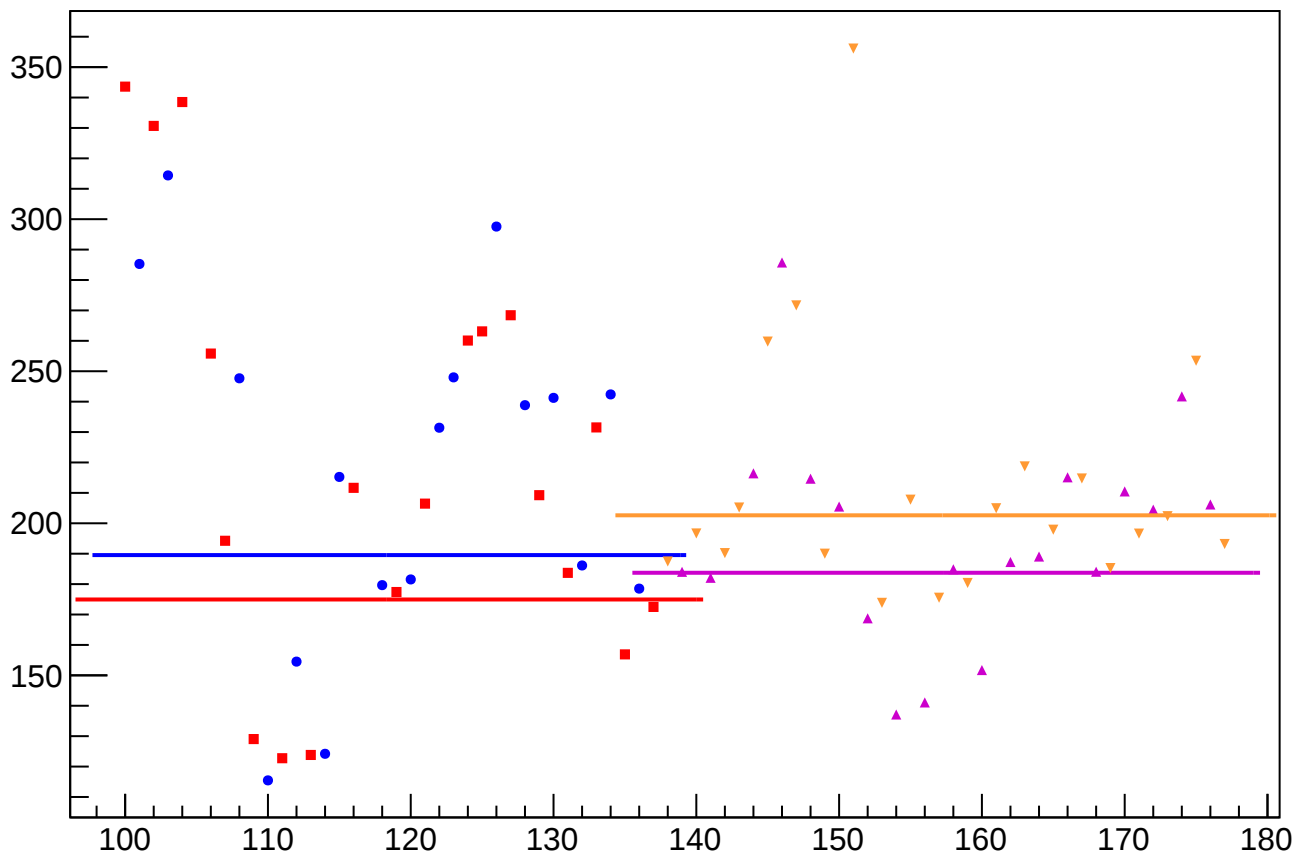
Out: 182.936 $\pm$ 0.028 χ^2 /NDF: 1839112.6/39

All: 179.058 $\pm$ 0.020 χ^2 /NDF: 3374629.5/75

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.623 $\pm$ 0.037 χ^2 /NDF: 672848.7/20

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 183.730 $\pm$ 0.035 χ^2 /NDF: 863920.6/18

Left: 192.726 $\pm$ 0.025 χ^2 /NDF: 1674532.9/39

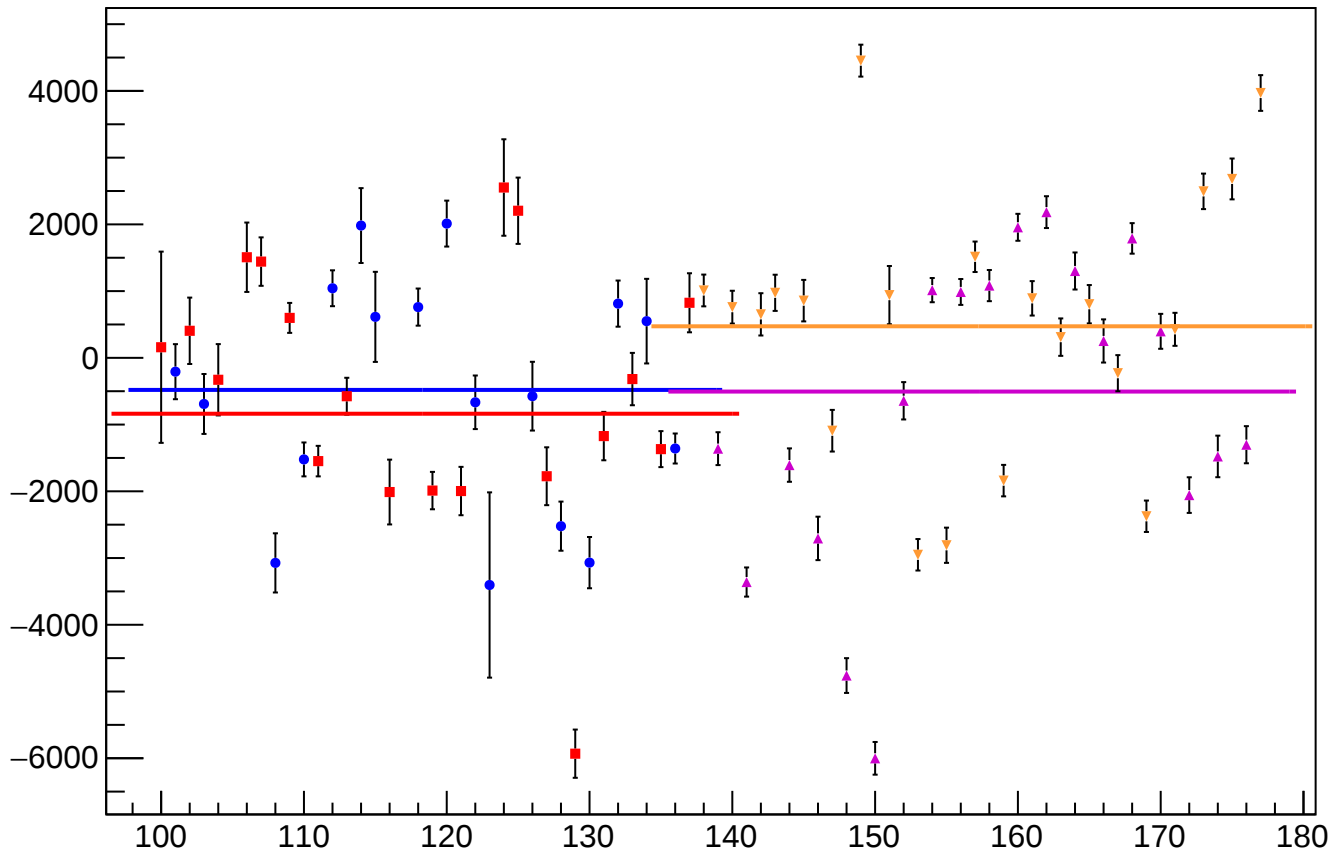
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 185.434 $\pm$ 0.030 χ^2 /NDF: 1852697.3/35

Out: 192.761 $\pm$ 0.030 χ^2 /NDF: 2171079.1/39

All: 189.094 $\pm$ 0.021 χ^2 /NDF: 4054523.8/75

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 472.752 ± 58.004 χ^2/NDF : 1234.5/20

Right Out: -837.442 ± 82.243 χ^2/NDF : 435.3/18

Left In: -505.379 ± 56.082 χ^2/NDF : 1681.9/18

Left: -32.790 ± 40.318 χ^2/NDF : 3063.4/39

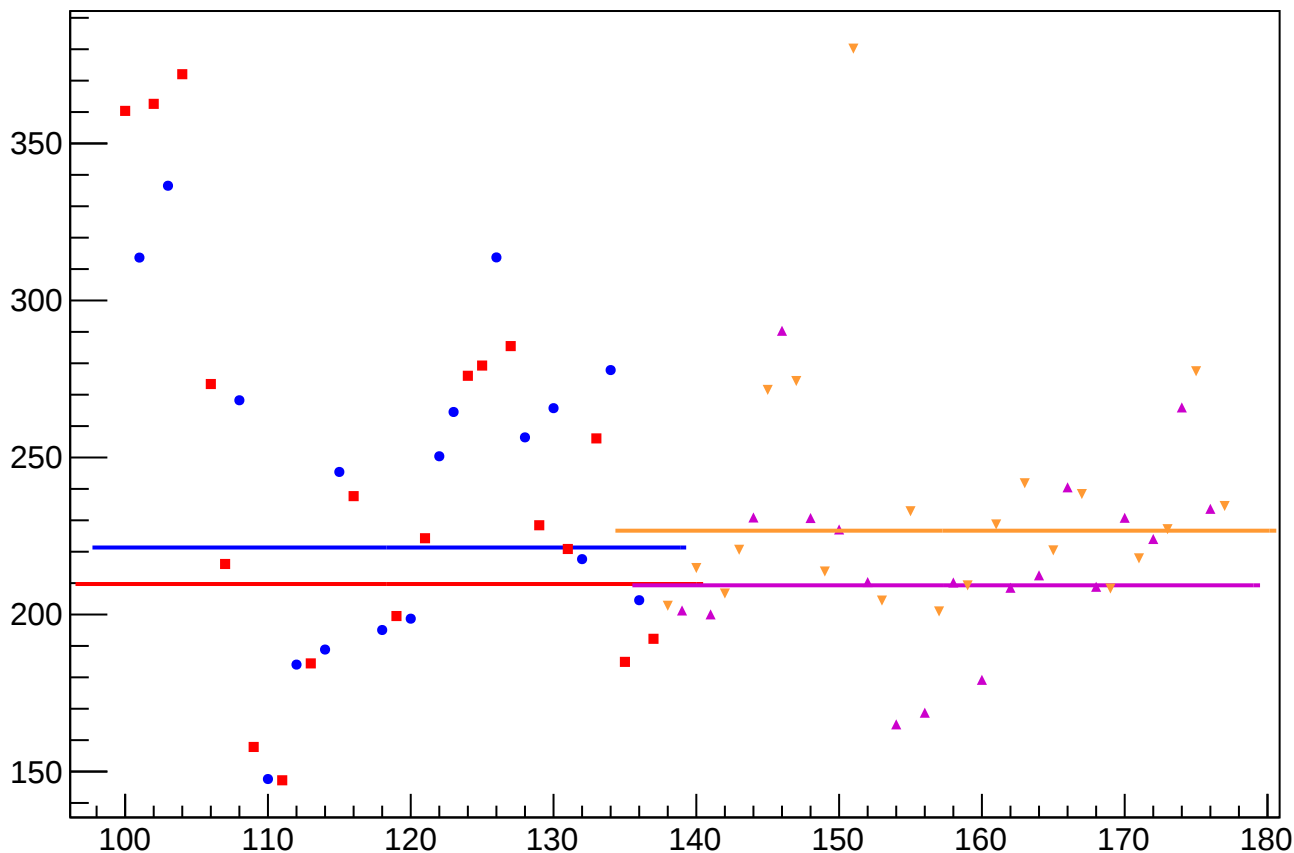
Right: -672.351 ± 60.290 χ^2/NDF : 734.7/35

In: -498.289 ± 47.393 χ^2/NDF : 1972.7/35

Out: 37.529 ± 47.401 χ^2/NDF : 1839.2/39

All: -230.427 ± 33.515 χ^2/NDF : 3875.8/75

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342+/-0.063 χ^2/NDF : 645688.1/16

Left Out: 226.699+/-0.041 χ^2/NDF : 512754.4/20

Right Out: 209.717+/-0.058 χ^2/NDF : 883917.7/18

Left In: 209.303+/-0.040 χ^2/NDF : 539871.1/18

Left: 217.708+/-0.029 χ^2/NDF : 1145599.1/39

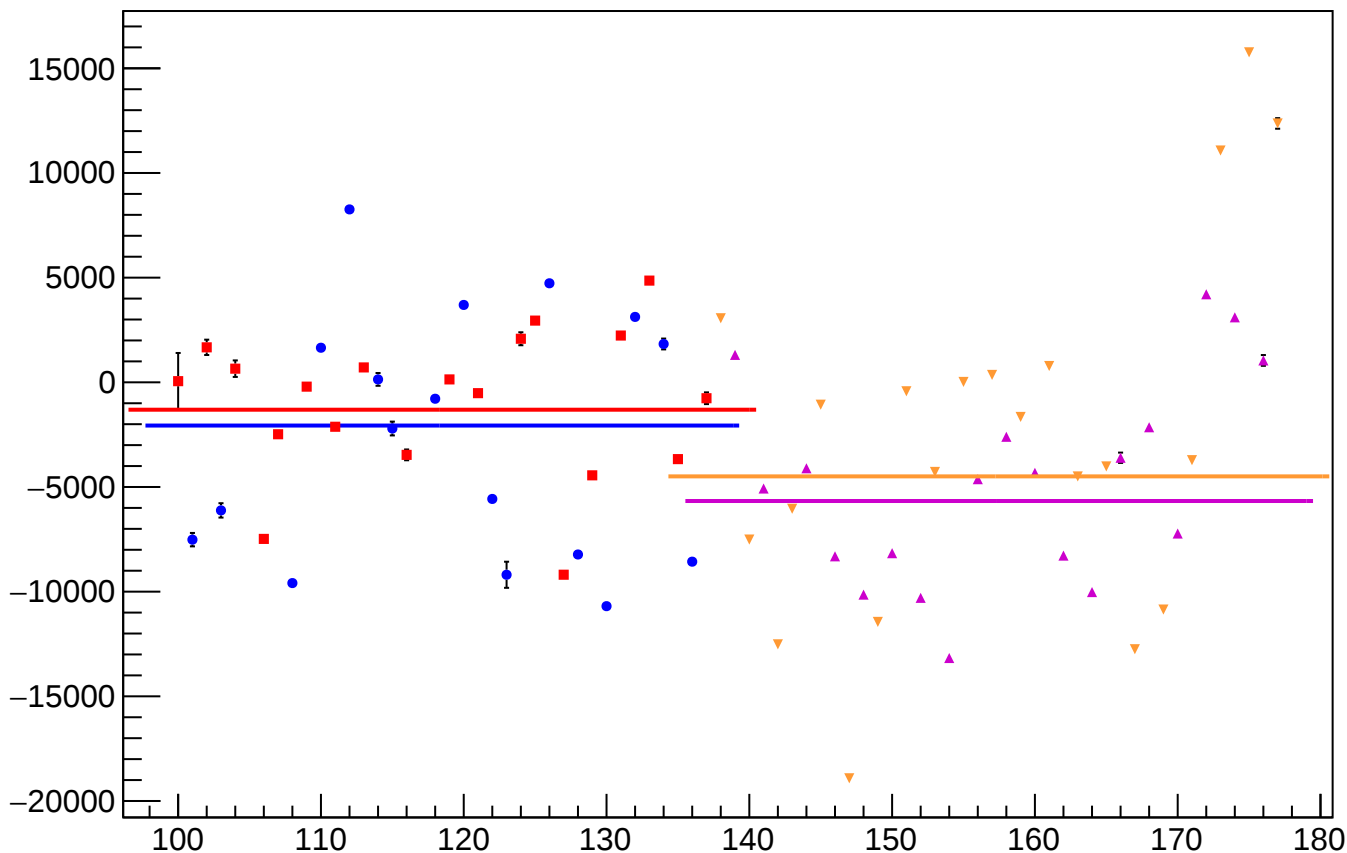
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 212.744+/-0.034 χ^2/NDF : 1211907.4/35

Out: 221.057+/-0.034 χ^2/NDF : 1453618.5/39

All: 216.900+/-0.024 χ^2/NDF : 2696288.2/75

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -4493.111 ± 34.797 $\chi^2/\text{NDF}: 49444.5/20$

Right Out: -1308.512 ± 45.001 $\chi^2/\text{NDF}: 5894.4/18$

Left In: -5669.772 ± 36.091 $\chi^2/\text{NDF}: 14090.4/18$

Left: -5059.972 ± 25.050 $\chi^2/\text{NDF}: 64085.8/39$

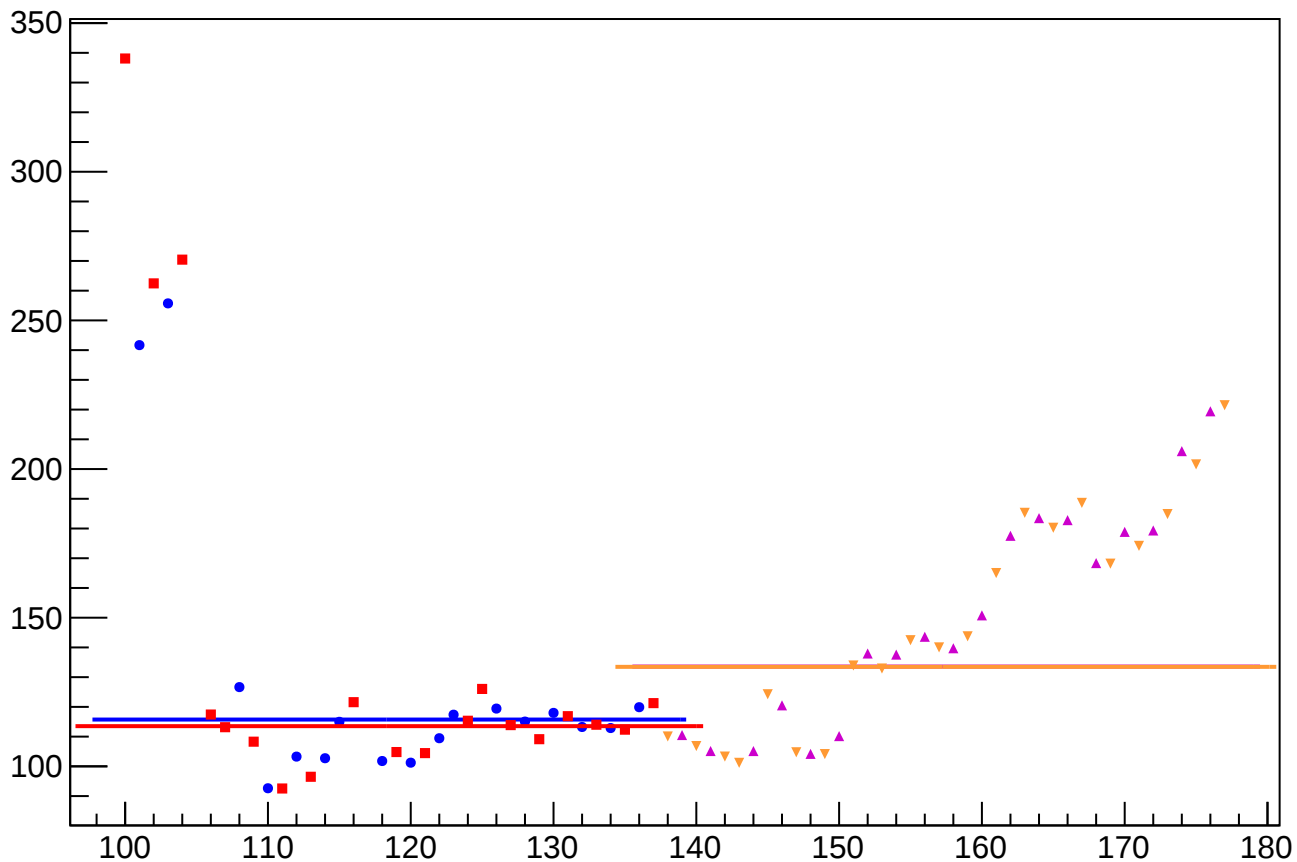
Right: -1667.825 ± 32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4344.175 ± 28.697 $\chi^2/\text{NDF}: 34292.1/35$

Out: -3301.488 ± 27.527 $\chi^2/\text{NDF}: 58473.0/39$

All: -3801.145 ± 19.865 $\chi^2/\text{NDF}: 93452.6/75$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 133.469+/-0.025 χ^2/NDF : 1708605.7/20

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 133.564+/-0.026 χ^2/NDF : 1479483.6/18

Left: 133.515+/-0.018 χ^2/NDF : 3188096.4/39

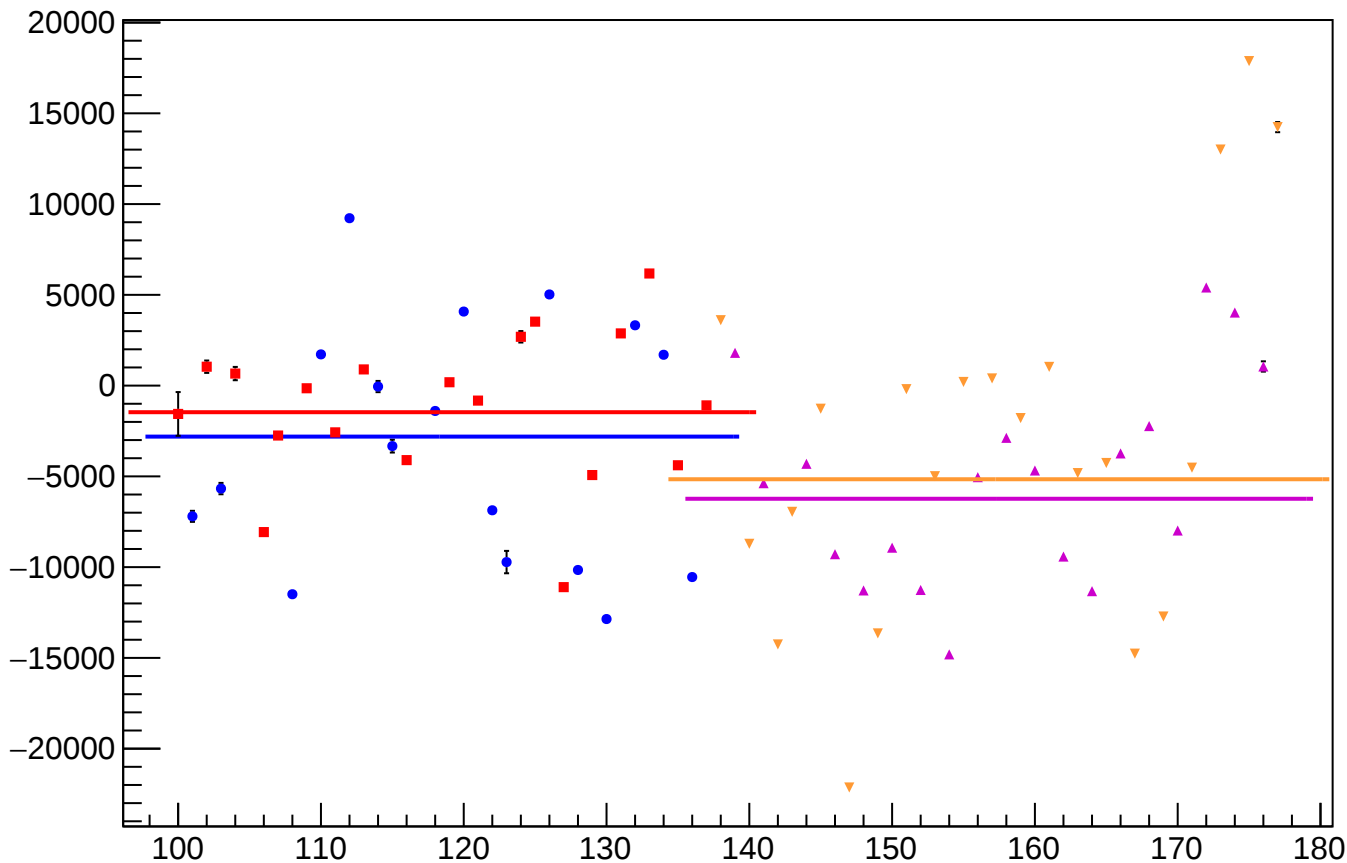
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 127.009+/-0.020 χ^2/NDF : 2402874.2/35

Out: 126.004+/-0.019 χ^2/NDF : 2751240.9/39

All: 126.486+/-0.014 χ^2/NDF : 5155392.5/75

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -5158.391+/-37.029 χ^2/NDF : 57553.0/20

Right Out: -1465.074+/-46.394 χ^2/NDF : 8004.7/18

Left In: -6233.678+/-38.416 χ^2/NDF : 16340.8/18

Left: -5676.269+/-26.660 χ^2/NDF : 74299.9/39

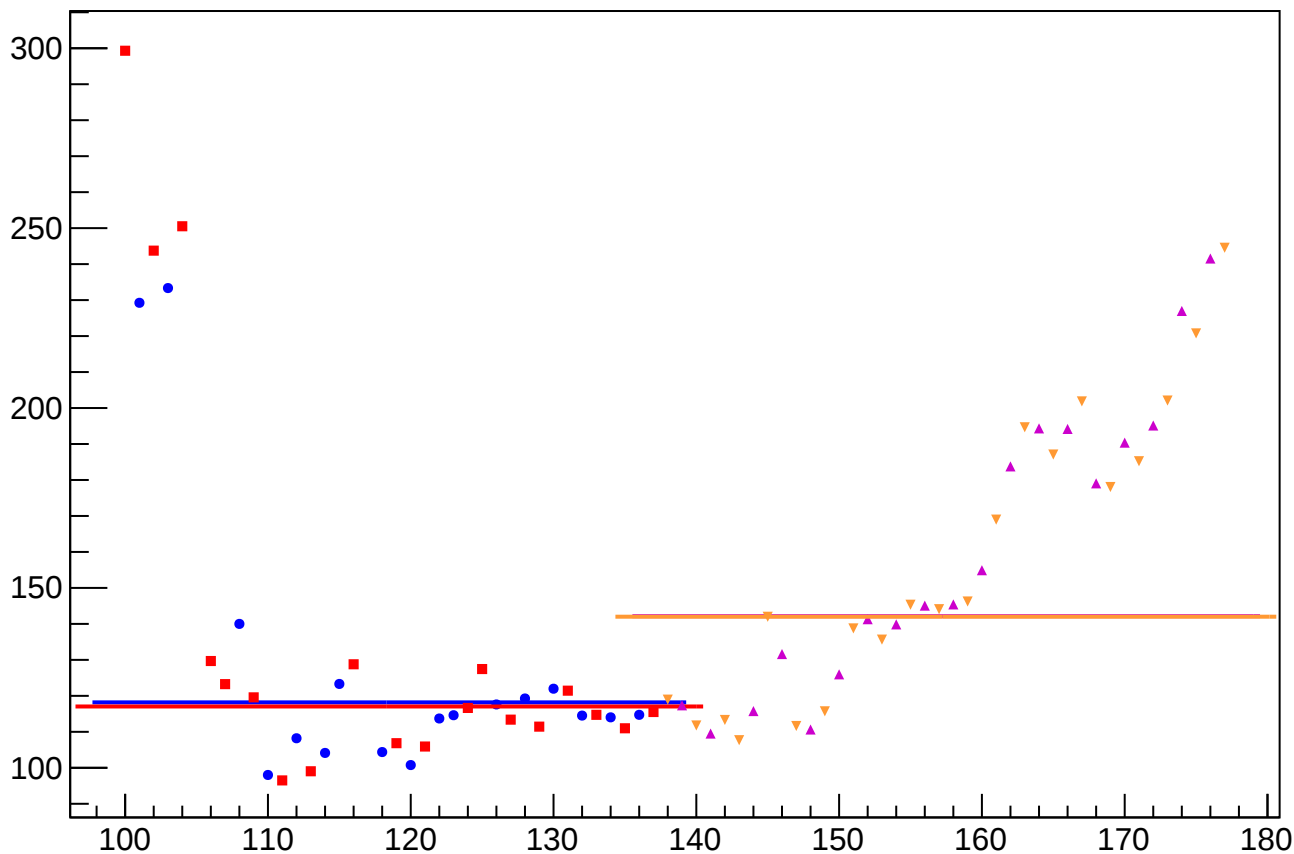
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -4906.188+/-30.062 χ^2/NDF : 40684.3/35

Out: -3721.199+/-28.941 χ^2/NDF : 69428.9/39

All: -4291.187+/-20.849 χ^2/NDF : 110919.6/77

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2 /NDF: 636252.0/16

Left Out: 142.000 $\pm$ 0.026 χ^2 /NDF:1657373.6/20

Right Out: 117.046 $\pm$ 0.033 χ^2 /NDF: 690635.5/18

Left In: 142.144 $\pm$ 0.027 χ^2 /NDF:1433009.1/18

Left: 142.069 $\pm$ 0.019 χ^2 /NDF: 3090397.3/39

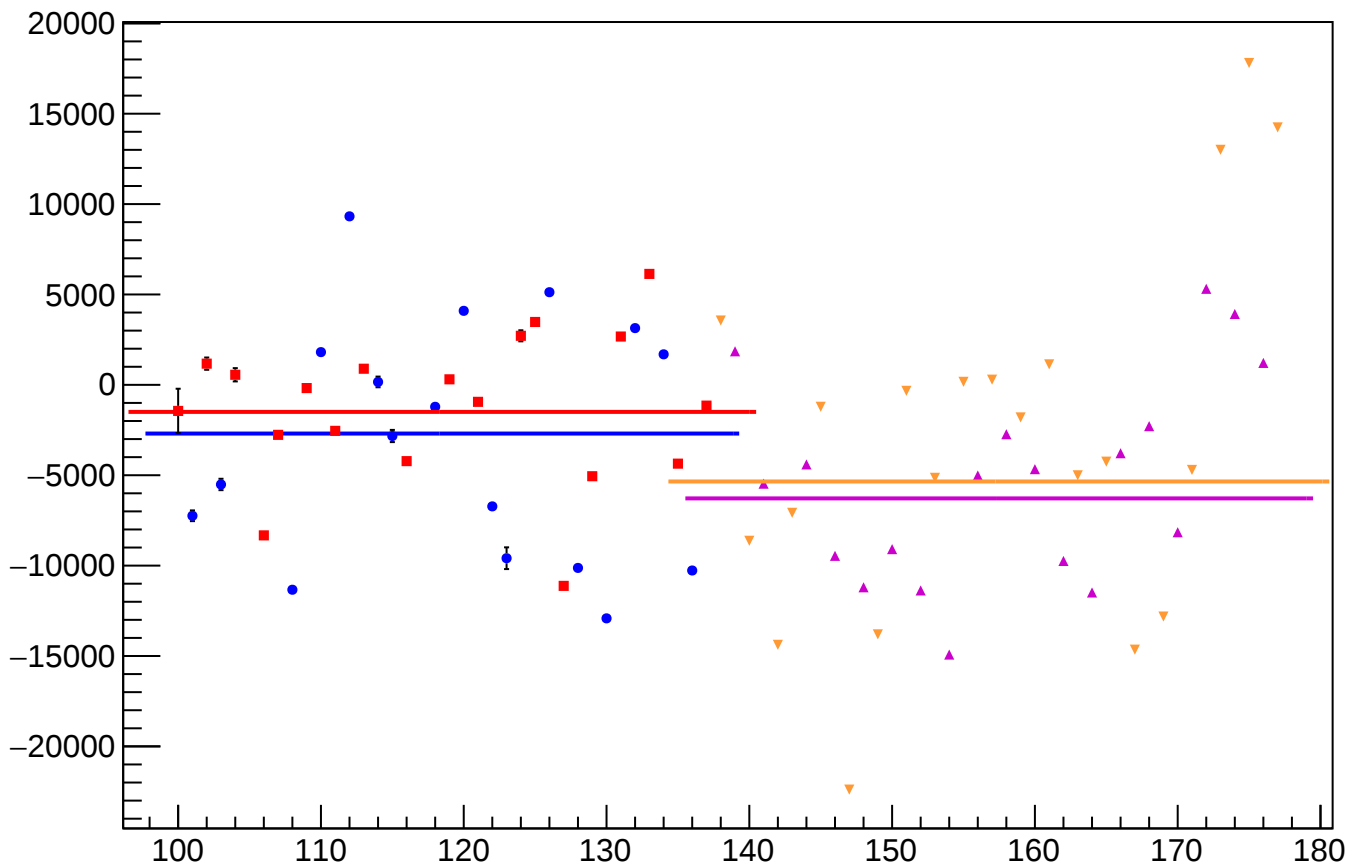
Right: 117.594 $\pm$ 0.024 χ^2 /NDF: 1327469.8/35

In: 132.858 $\pm$ 0.021 χ^2 /NDF:2370724.4/35

Out: 132.289 $\pm$ 0.020 χ^2 /NDF:2701458.1/39

All: 132.563 $\pm$ 0.015 χ^2 /NDF: 5072553.7/75

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260 ± 46.347 $\chi^2/\text{NDF}: 22860.3/16$

Left Out: -5345.756 ± 36.155 $\chi^2/\text{NDF}: 61982.4/20$

Right Out: -1495.744 ± 44.445 $\chi^2/\text{NDF}: 8717.2/18$

Left In: -6281.533 ± 37.434 $\chi^2/\text{NDF}: 17452.0/18$

Left: -5797.386 ± 26.006 $\chi^2/\text{NDF}: 79757.8/39$

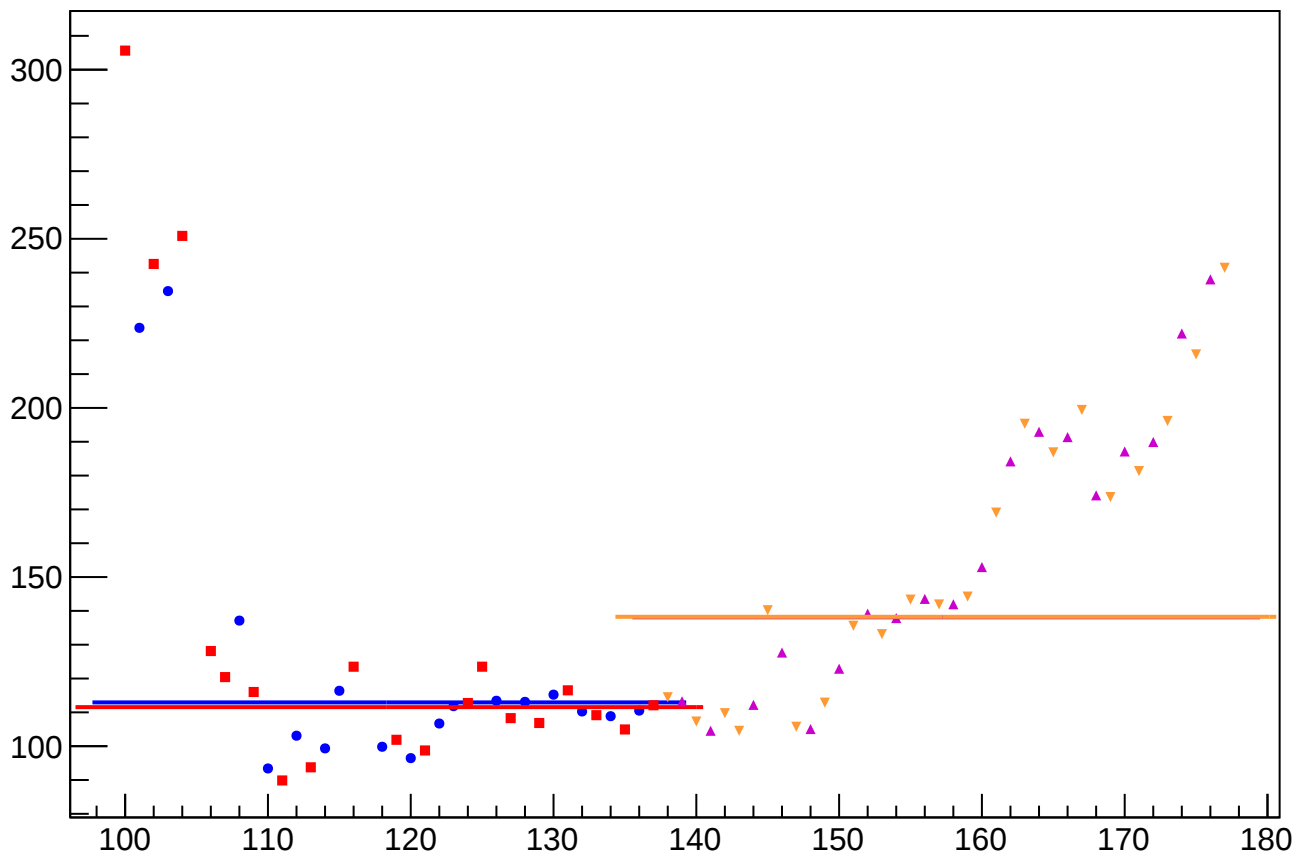
Right: -2069.900 ± 32.079 $\chi^2/\text{NDF}: 31925.8/35$

In: -4865.243 ± 29.122 $\chi^2/\text{NDF}: 43937.9/35$

Out: -3812.561 ± 28.047 $\chi^2/\text{NDF}: 75215.2/39$

All: -4319.121 ± 20.202 $\chi^2/\text{NDF}: 119831.0/7$

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 $\pm$ 0.033 χ^2/NDF : 680283.1/16

Left Out: 138.253 $\pm$ 0.026 χ^2/NDF : 1781724.7/20

Right Out: 111.544 $\pm$ 0.031 χ^2/NDF : 765502.6/18

Left In: 138.096 $\pm$ 0.026 χ^2/NDF : 1549503.3/18

Left: 138.177 $\pm$ 0.018 χ^2/NDF : 3331246.3/39

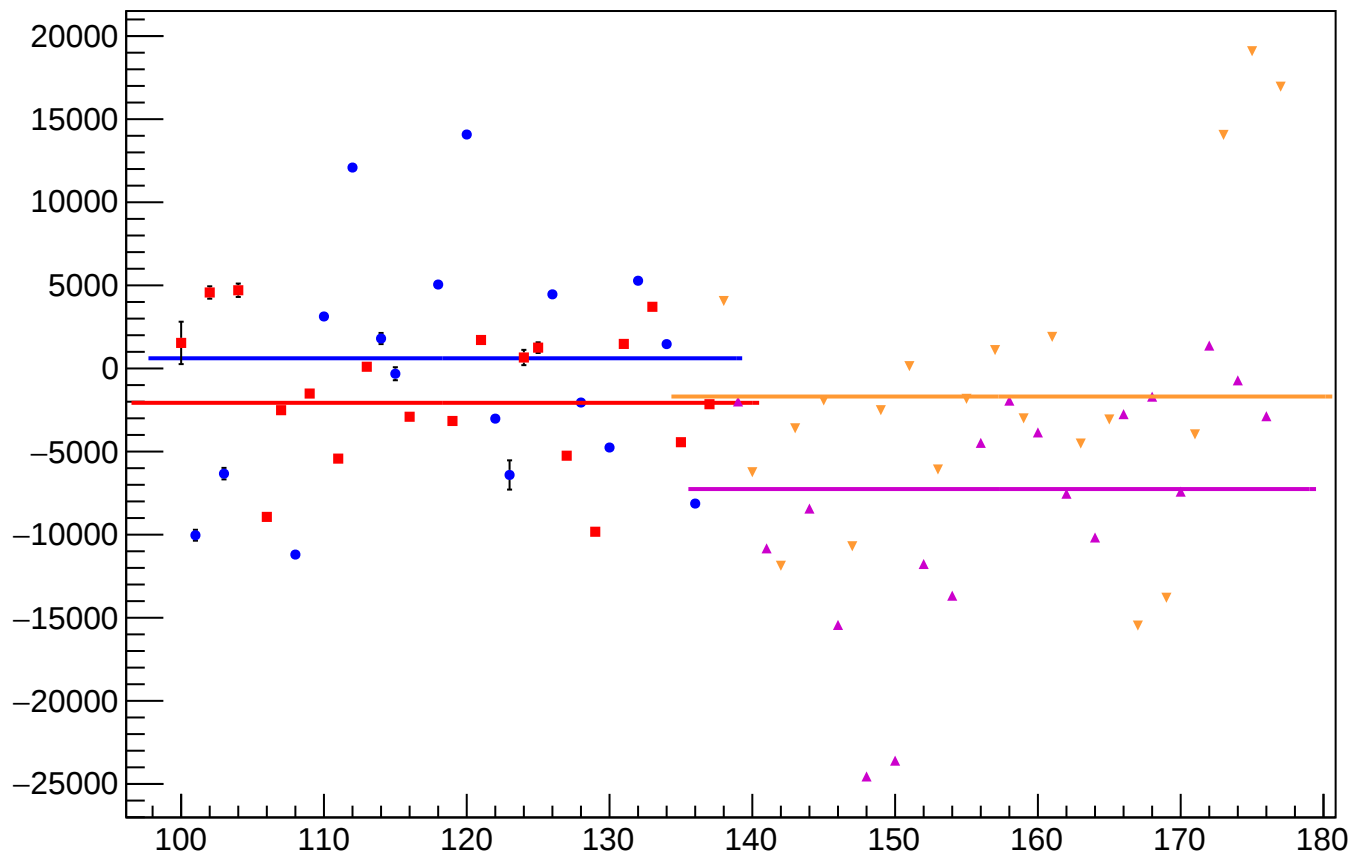
Right: 112.213 $\pm$ 0.023 χ^2/NDF : 1446732.2/35

In: 128.164 $\pm$ 0.021 χ^2/NDF : 2586350.2/35

Out: 127.617 $\pm$ 0.020 χ^2/NDF : 2981900.9/39

All: 127.880 $\pm$ 0.014 χ^2/NDF : 5568617.8/75

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -1688.776 ± 41.340 $\chi^2/\text{NDF}: 36979.6/20$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -7256.012 ± 43.855 $\chi^2/\text{NDF}: 19179.9/18$

Left: -4308.162 ± 30.081 $\chi^2/\text{NDF}: 64692.6/39$

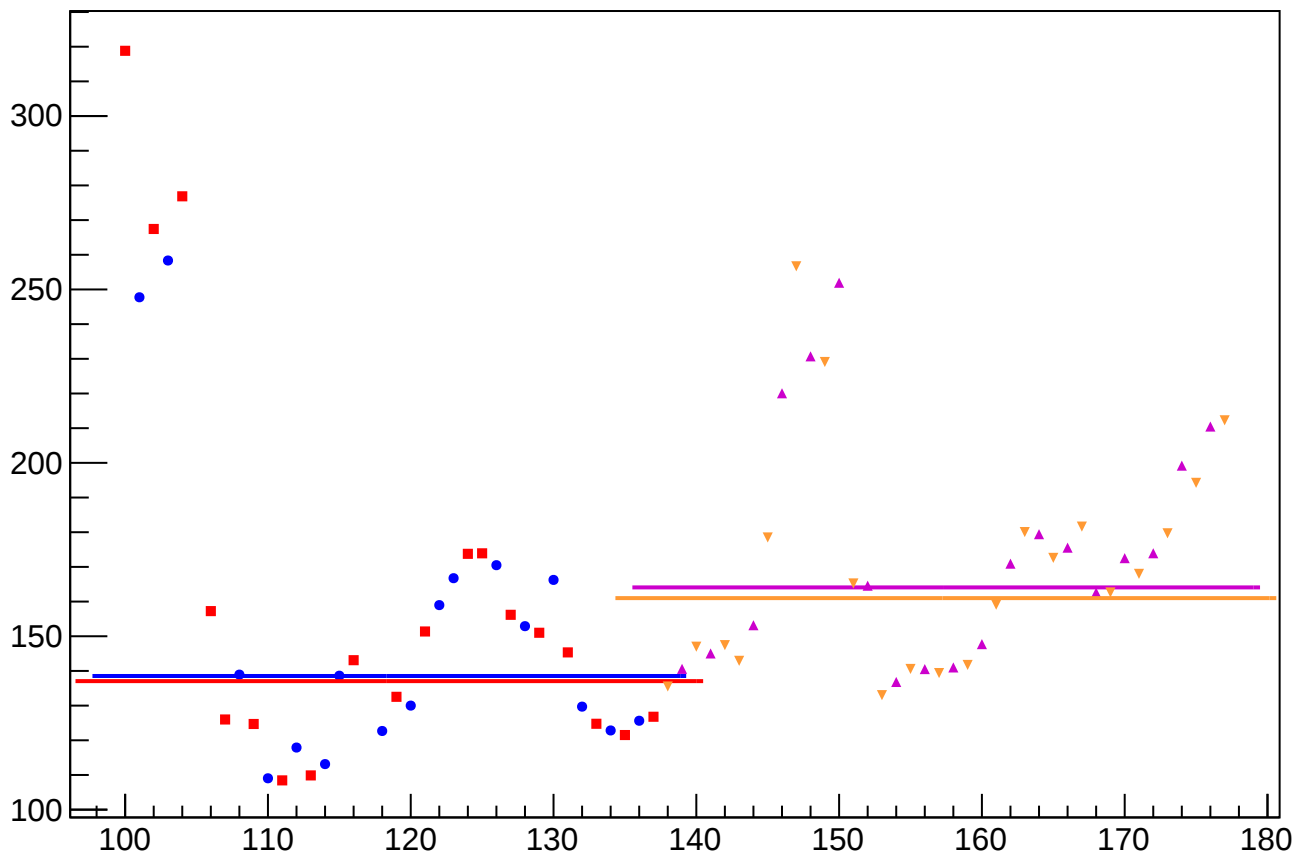
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4268.859 ± 34.542 $\chi^2/\text{NDF}: 49644.6/35$

Out: -1828.911 ± 32.810 $\chi^2/\text{NDF}: 41653.4/39$

All: -2986.169 ± 23.789 $\chi^2/\text{NDF}: 93921.0/75$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 160.997 $\pm$ 0.029 χ^2 /NDF: 835029.7/20

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 164.085 $\pm$ 0.031 χ^2 /NDF: 829739.3/18

Left: 162.450 $\pm$ 0.021 χ^2 /NDF: 1670018.0/39

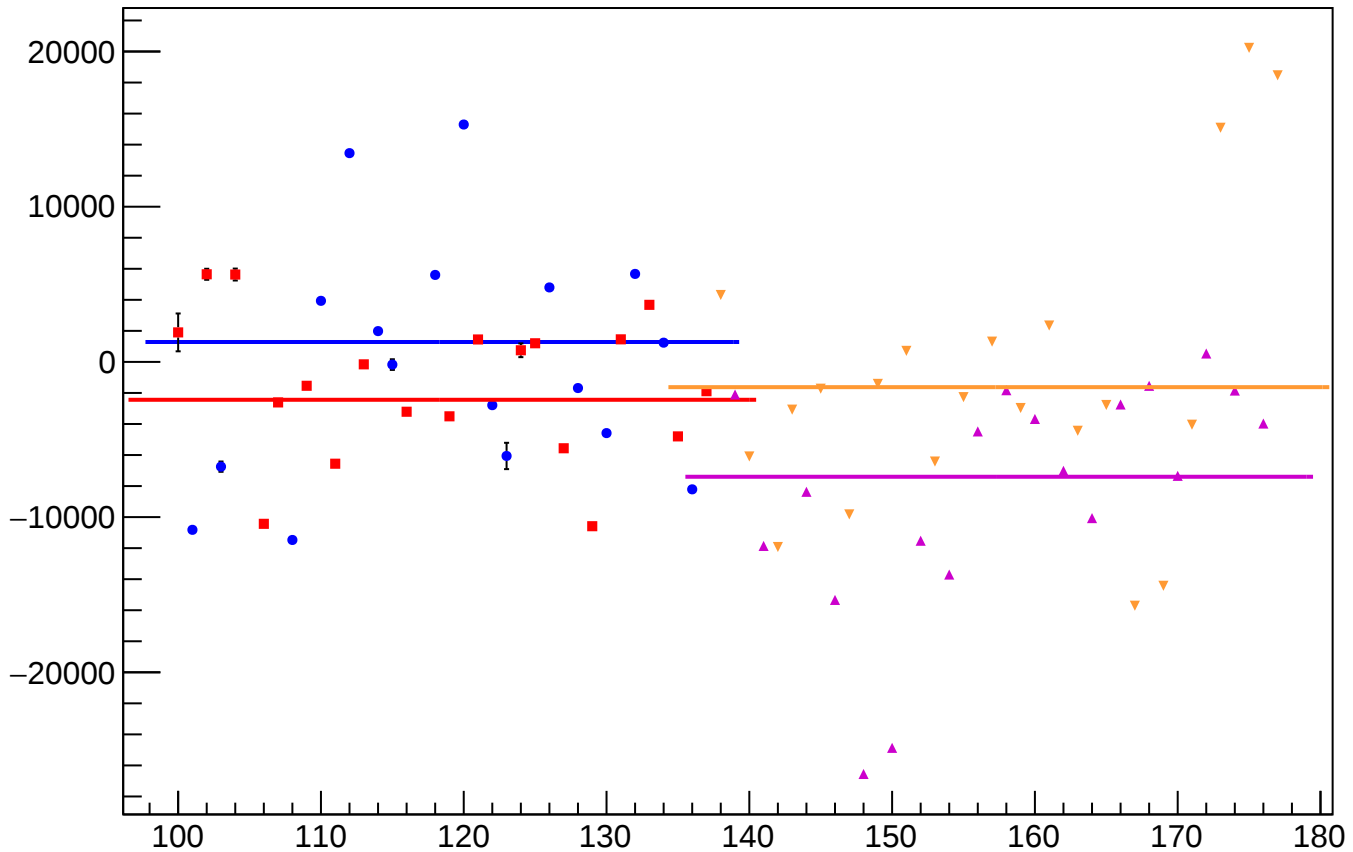
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 154.388 $\pm$ 0.024 χ^2 /NDF: 1756252.7/35

Out: 152.138 $\pm$ 0.023 χ^2 /NDF: 1838691.8/39

All: 153.205 $\pm$ 0.017 χ^2 /NDF: 3599404.6/75

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -1626.929+/-37.248 χ^2/NDF : 46386.0/20

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -7400.170+/-39.605 χ^2/NDF : 23848.7/18

Left: -4336.657+/-27.133 χ^2/NDF : 81510.5/39

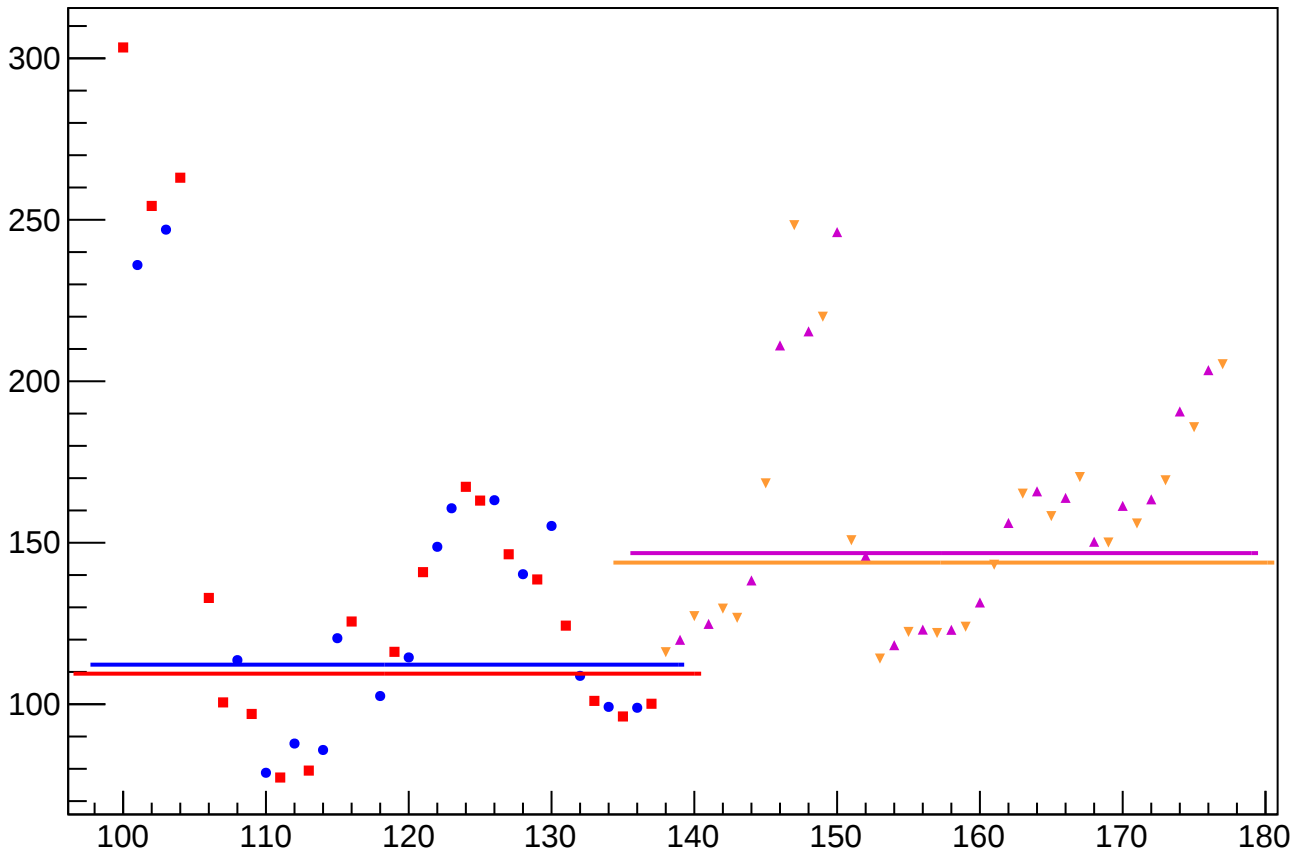
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3756.085+/-30.170 χ^2/NDF : 74562.6/35

Out: -1963.902+/-28.506 χ^2/NDF : 54261.1/39

All: -2809.185+/-20.720 χ^2/NDF : 130688.1/7

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251 $\pm$ 0.033 χ^2 /NDF: 1125537.4/16

Left Out: 143.856 $\pm$ 0.026 χ^2 /NDF:1226993.1/20

Right Out: 109.460 $\pm$ 0.031 χ^2 /NDF: 1269633.4/18

Left In: 146.790 $\pm$ 0.028 χ^2 /NDF:1193134.0/18

Left: 145.233 $\pm$ 0.019 χ^2 /NDF: 2425952.2/39

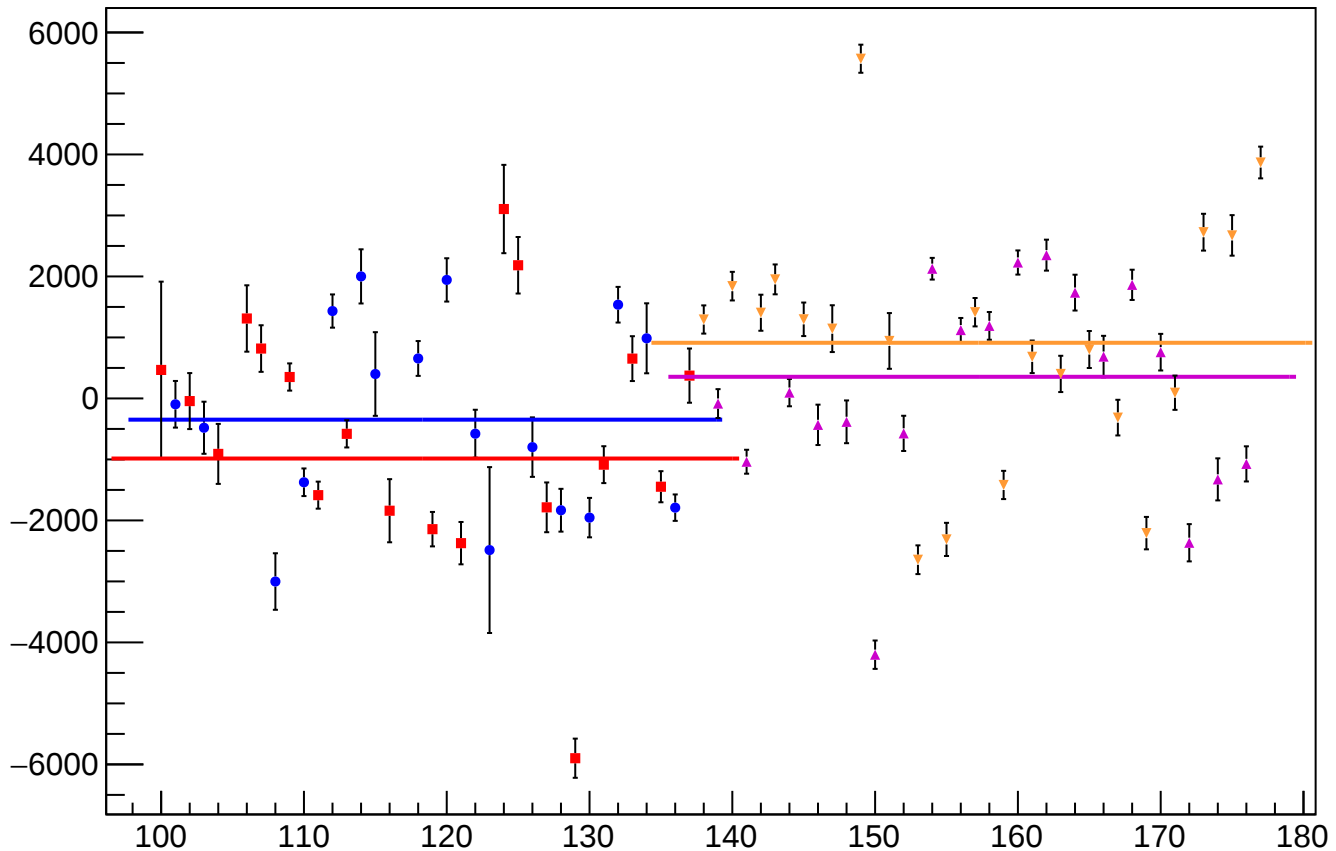
Right: 110.785 $\pm$ 0.023 χ^2 /NDF: 2398941.6/35

In: 132.295 $\pm$ 0.021 χ^2 /NDF:2957052.4/35

Out: 129.605 $\pm$ 0.020 χ^2 /NDF:3203226.5/39

All: 130.874 $\pm$ 0.015 χ^2 /NDF: 6168676.4/75

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 ± 83.826 χ^2/NDF : 317.3/16

Left Out: 912.446 ± 59.042 χ^2/NDF : 1285.9/20

Right Out: -985.242 ± 77.683 χ^2/NDF : 476.6/18

Left In: 354.818 ± 57.015 χ^2/NDF : 927.5/18

Left: 623.898 ± 41.013 χ^2/NDF : 2259.5/39

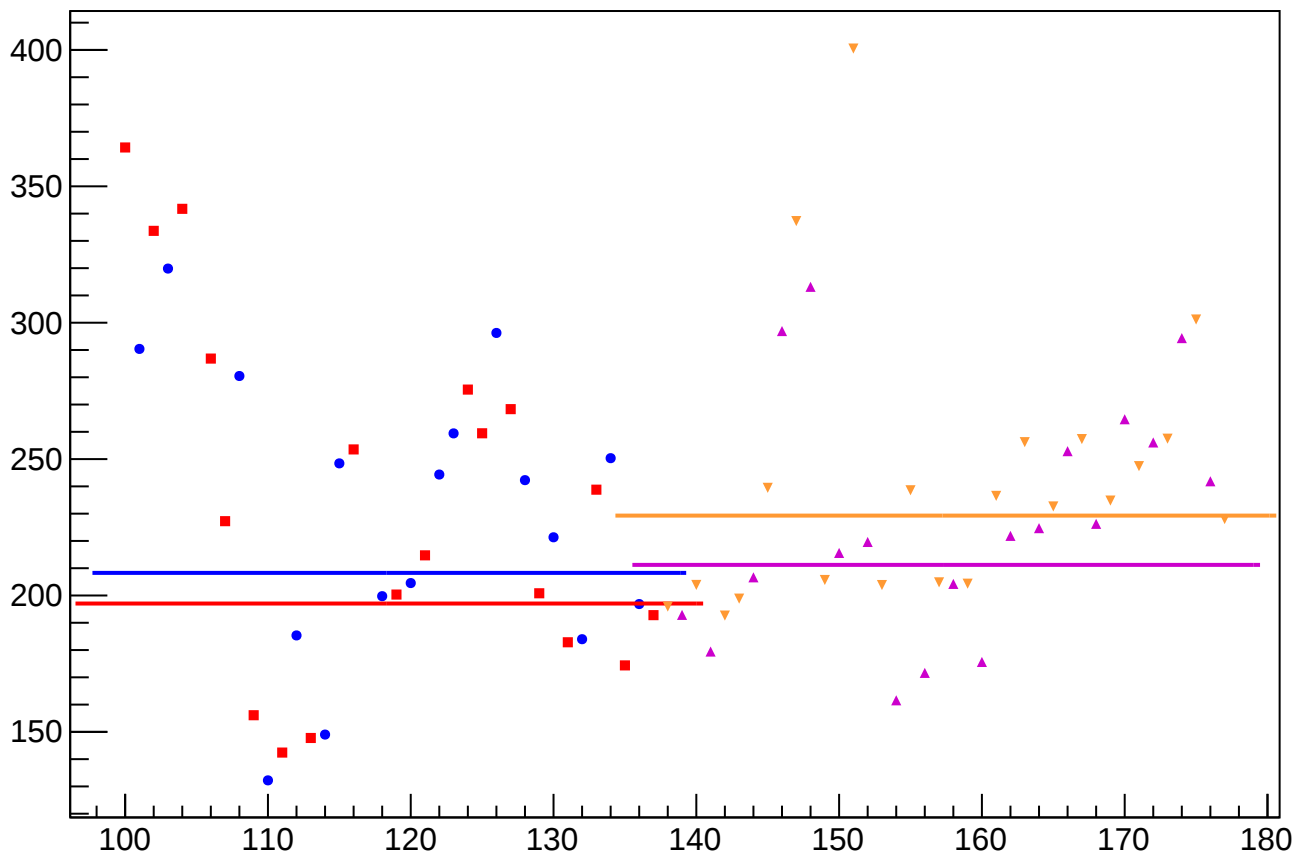
Right: -690.850 ± 56.978 χ^2/NDF : 824.9/35

In: 132.505 ± 47.144 χ^2/NDF : 1292.9/35

Out: 217.619 ± 47.006 χ^2/NDF : 2140.7/39

All: 175.187 ± 33.287 χ^2/NDF : 3435.2/75

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 229.289+/-0.042 χ^2/NDF : 817406.1/20

Right Out: 197.051+/-0.055 χ^2/NDF : 926786.6/18

Left In: 211.220+/-0.040 χ^2/NDF : 963417.5/18

Left: 219.939+/-0.029 χ^2/NDF : 1877752.2/39

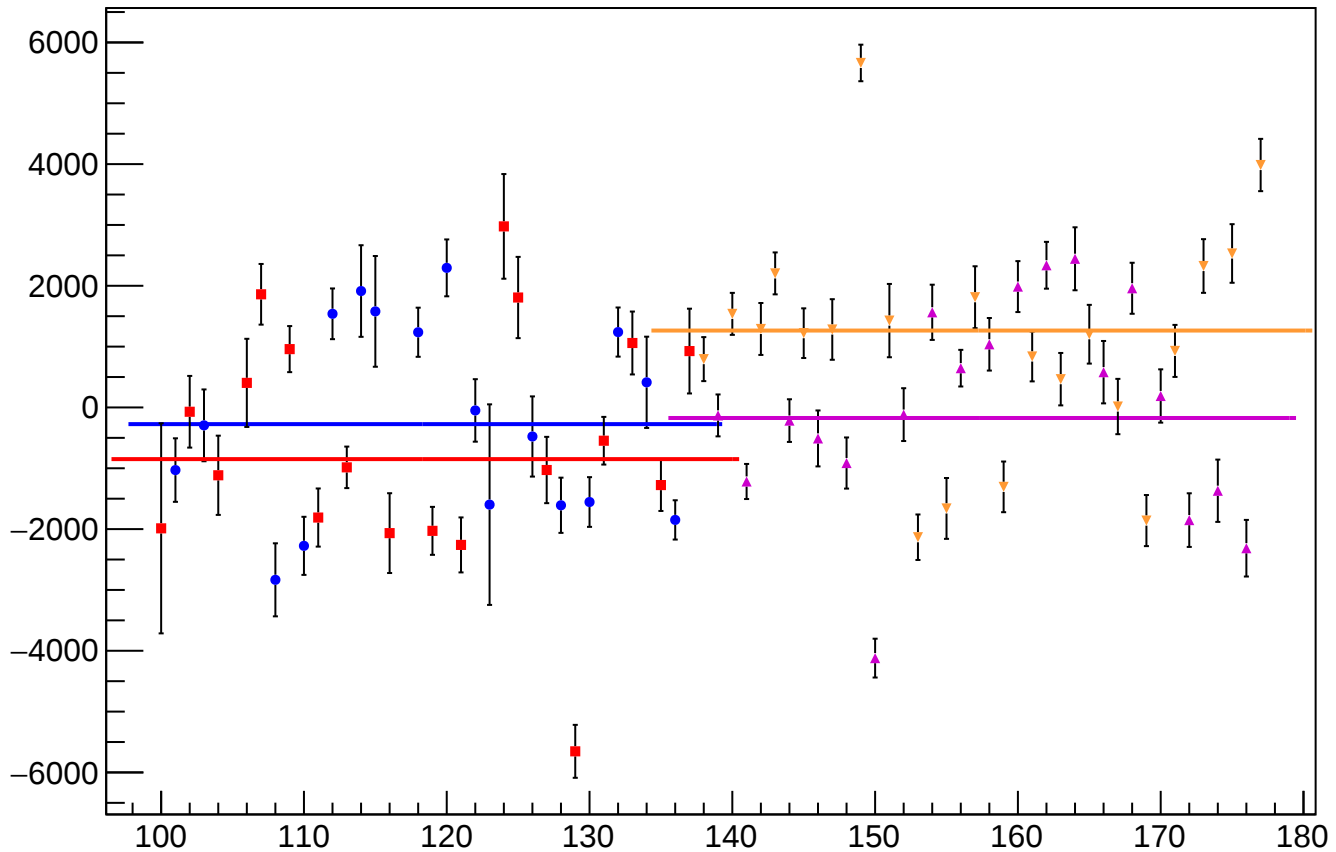
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 210.293+/-0.033 χ^2/NDF : 1663582.1/35

Out: 217.485+/-0.033 χ^2/NDF : 1962517.0/39

All: 213.899+/-0.024 χ^2/NDF : 3649444.8/75

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Left: 549.015 ± 64.436 $\chi^2/\text{NDF}: 989.7/39$

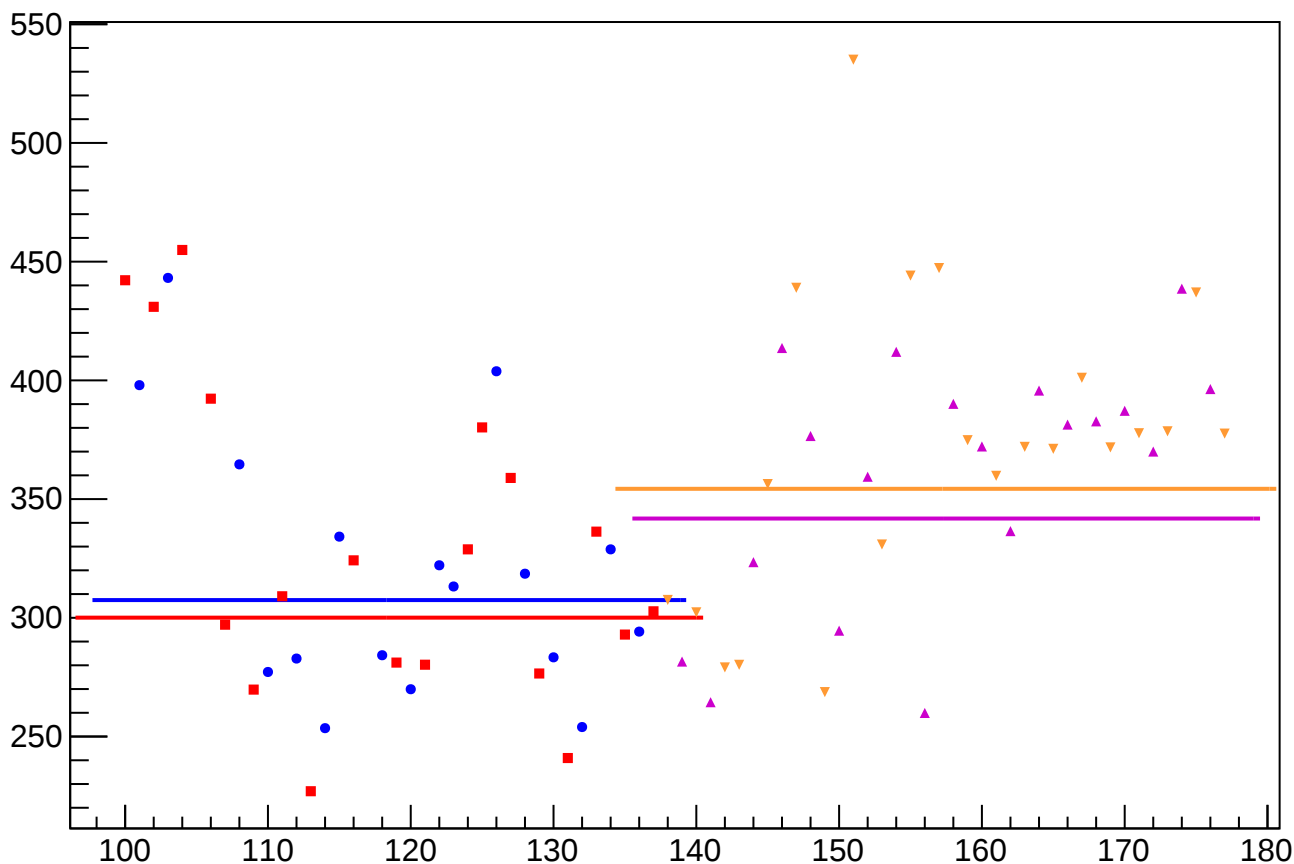
Right: -576.352 ± 83.597 $\chi^2/\text{NDF}: 446.6/35$

In: -209.918 ± 72.982 $\chi^2/\text{NDF}: 536.3/35$

Out: 454.480 ± 71.393 $\chi^2/\text{NDF}: 971.3/39$

All: 129.596 ± 51.035 $\chi^2/\text{NDF}: 1550.0/75$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468+/-0.086 χ^2/NDF : 323096.7/16

Left Out: 354.330+/-0.064 χ^2/NDF : 885167.4/20

Right Out: 300.069+/-0.082 χ^2/NDF : 490398.9/18

Left In: 341.811+/-0.065 χ^2/NDF : 733009.2/18

Left: 348.103+/-0.046 χ^2/NDF : 1637049.5/39

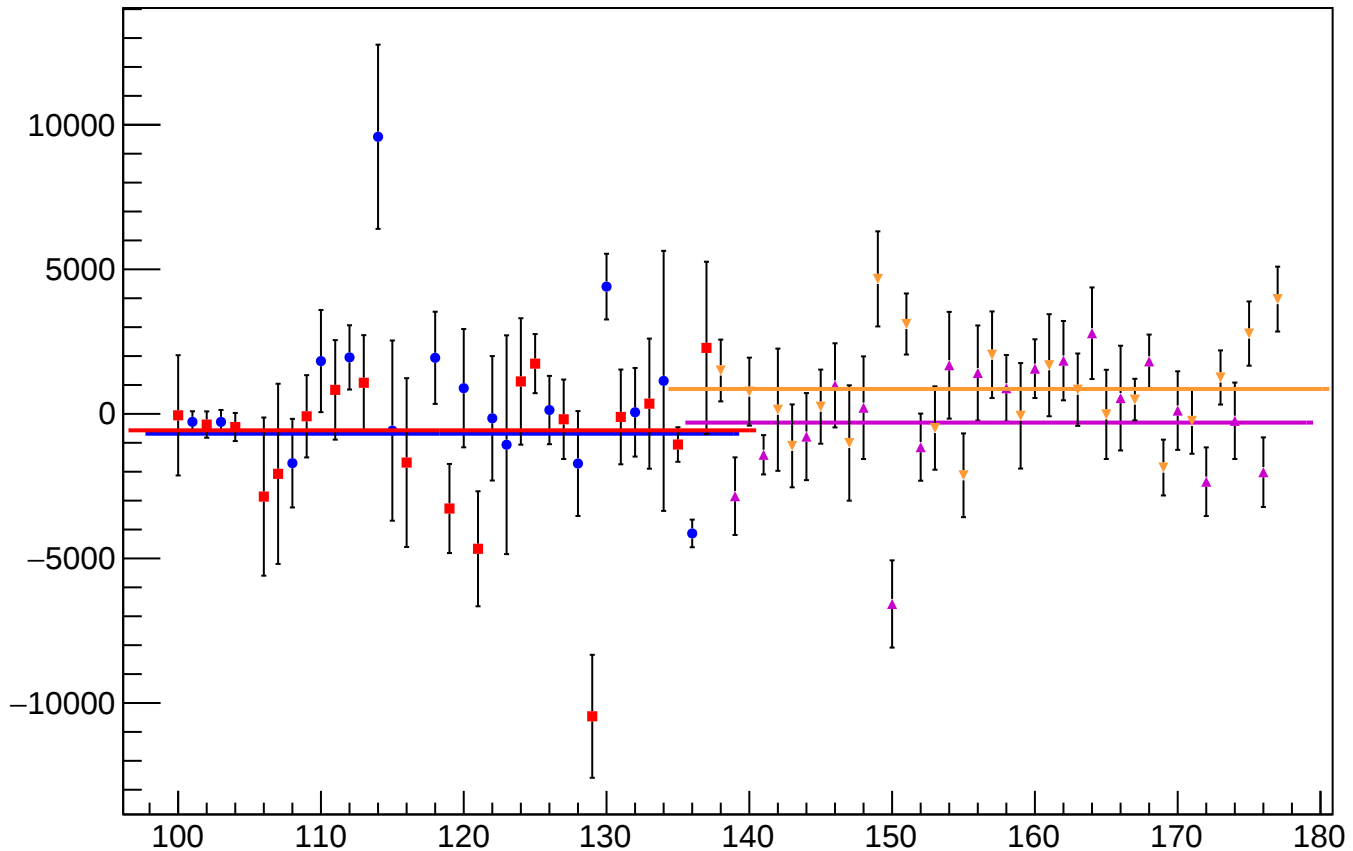
Right: 303.582+/-0.059 χ^2/NDF : 817401.9/35

In: 329.384+/-0.052 χ^2/NDF : 1158373.0/35

Out: 333.545+/-0.050 χ^2/NDF : 1648598.6/39

All: 331.510+/-0.036 χ^2/NDF : 2810292.7/75

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2/NDF : 97.4/16

Left Out: 862.374 $\pm$ 266.851 χ^2/NDF :39.9/20

Right Out: -568.651 $\pm$ 243.251 χ^2/NDF : 39.7/18

Left In: -301.336 $\pm$ 283.718 χ^2/NDF :48.5/18

Left: 316.138 $\pm$ 194.382 χ^2/NDF : 97.3/39

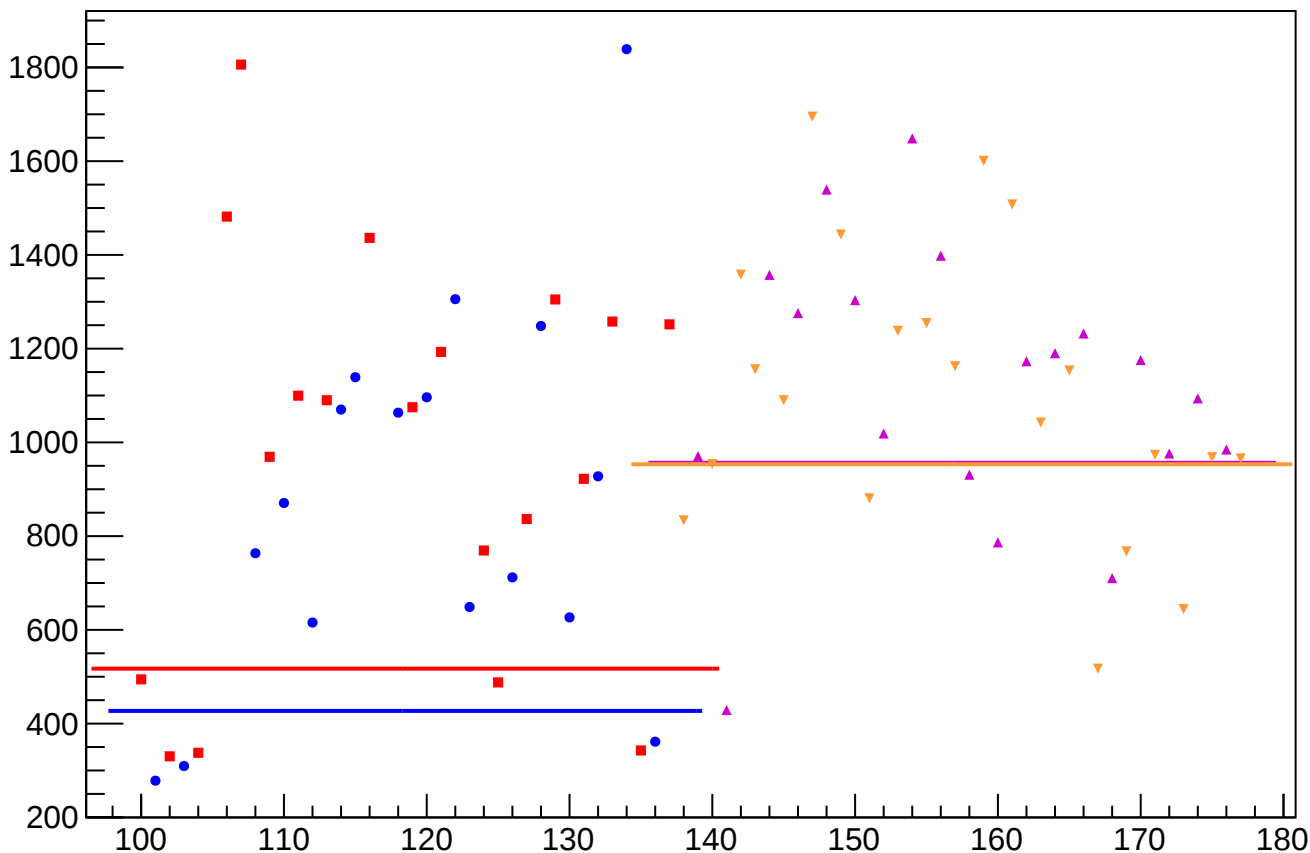
Right: -635.255 $\pm$ 159.106 χ^2/NDF : 137.2/35

In: -548.956 $\pm$ 168.970 χ^2/NDF :147.1/35

Out: 80.798 $\pm$ 179.770 χ^2/NDF :95.3/39

All: -253.563 $\pm$ 123.121 χ^2/NDF : 248.9/75

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 953.358+/-0.189 χ^2/NDF :2349052.7/20

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 956.501+/-0.201 χ^2/NDF :2605491.8/18

Left: 954.834+/-0.137 χ^2/NDF : 4954674.7/39

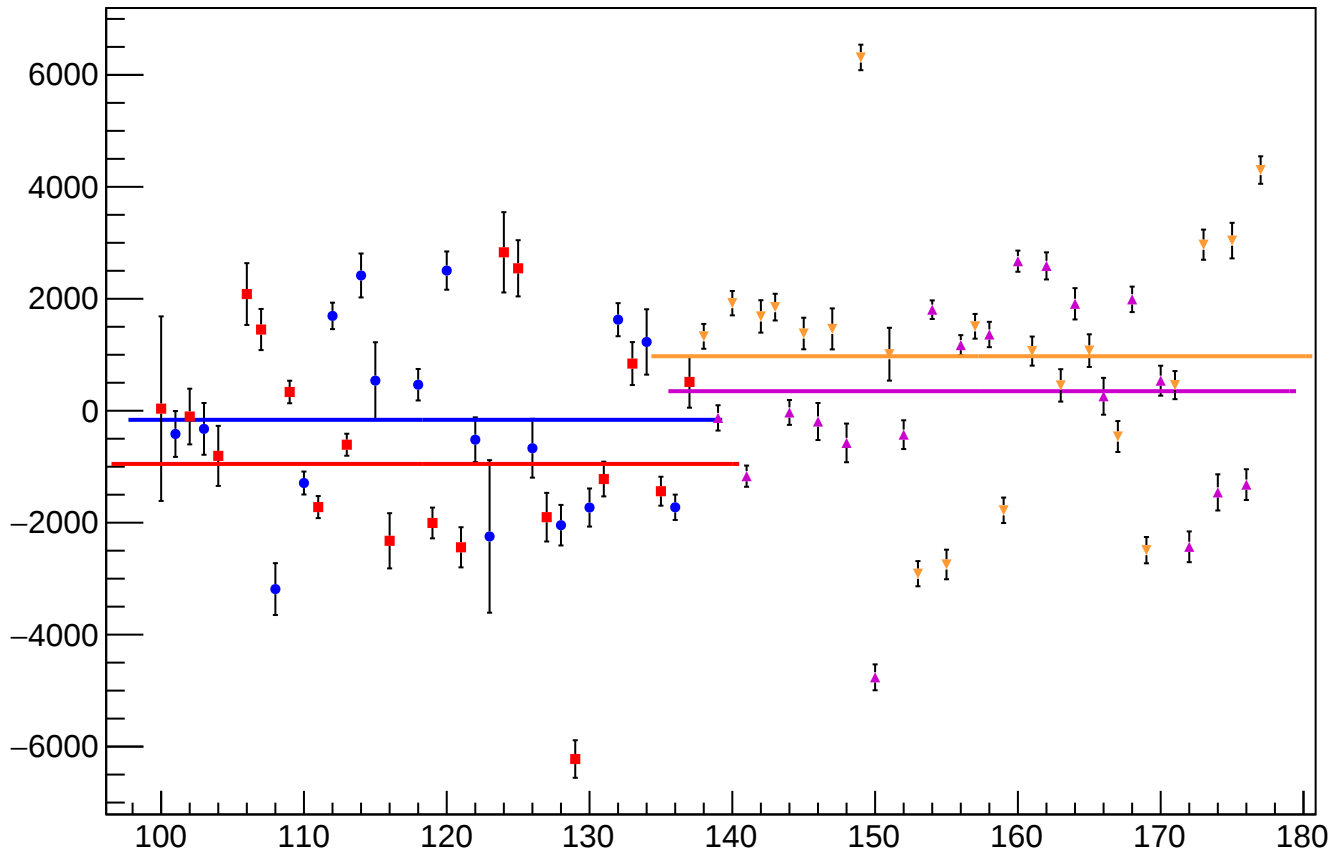
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 614.857+/-0.119 χ^2/NDF :9965142.1/35

Out: 715.163+/-0.127 χ^2/NDF :8871843.0/39

All: 661.907+/-0.087 χ^2/NDF : 19167573.2/75

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333±/82.350 χ^2/NDF : 387.6/16

Left Out: 973.783±/56.402 χ^2/NDF :1773.7/20

Right Out: -950.093±/75.133 χ^2/NDF : 539.8/18

Left In: 349.257±/54.004 χ^2/NDF :1187.9/18

Left: 647.960±/39.007 χ^2/NDF : 3025.6/39

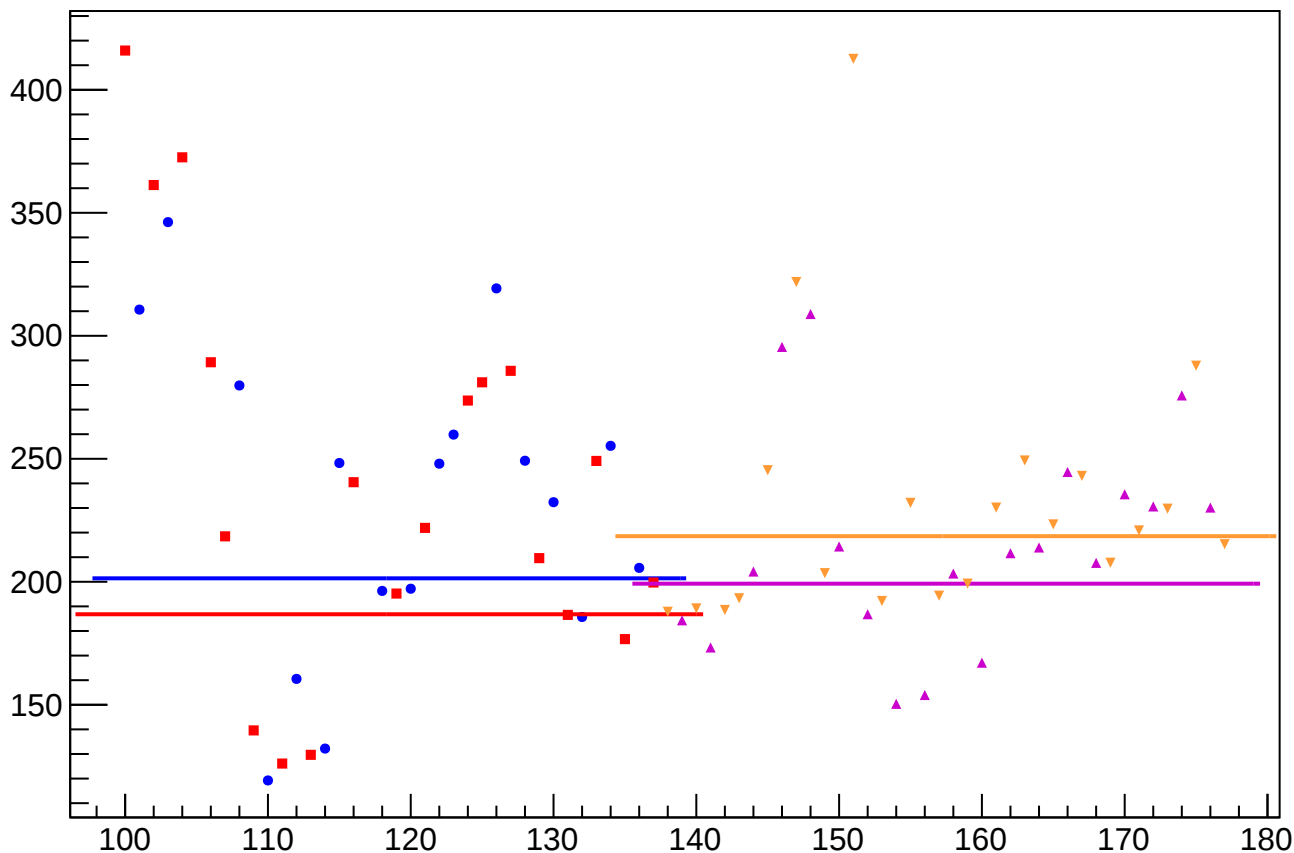
Right: -592.238±/55.504 χ^2/NDF : 977.3/35

In: 195.411±/45.159 χ^2/NDF :1602.5/35

Out: 280.371±/45.106 χ^2/NDF :2732.8/39

All: 237.941±/31.914 χ^2/NDF : 4337.1/75

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409+/-0.058 χ^2/NDF : 1056022.1/16

Left Out: 218.535+/-0.040 χ^2/NDF : 859895.9/20

Right Out: 186.797+/-0.053 χ^2/NDF : 1393162.0/18

Left In: 199.232+/-0.038 χ^2/NDF : 1044324.7/18

Left: 208.464+/-0.028 χ^2/NDF : 2026439.1/39

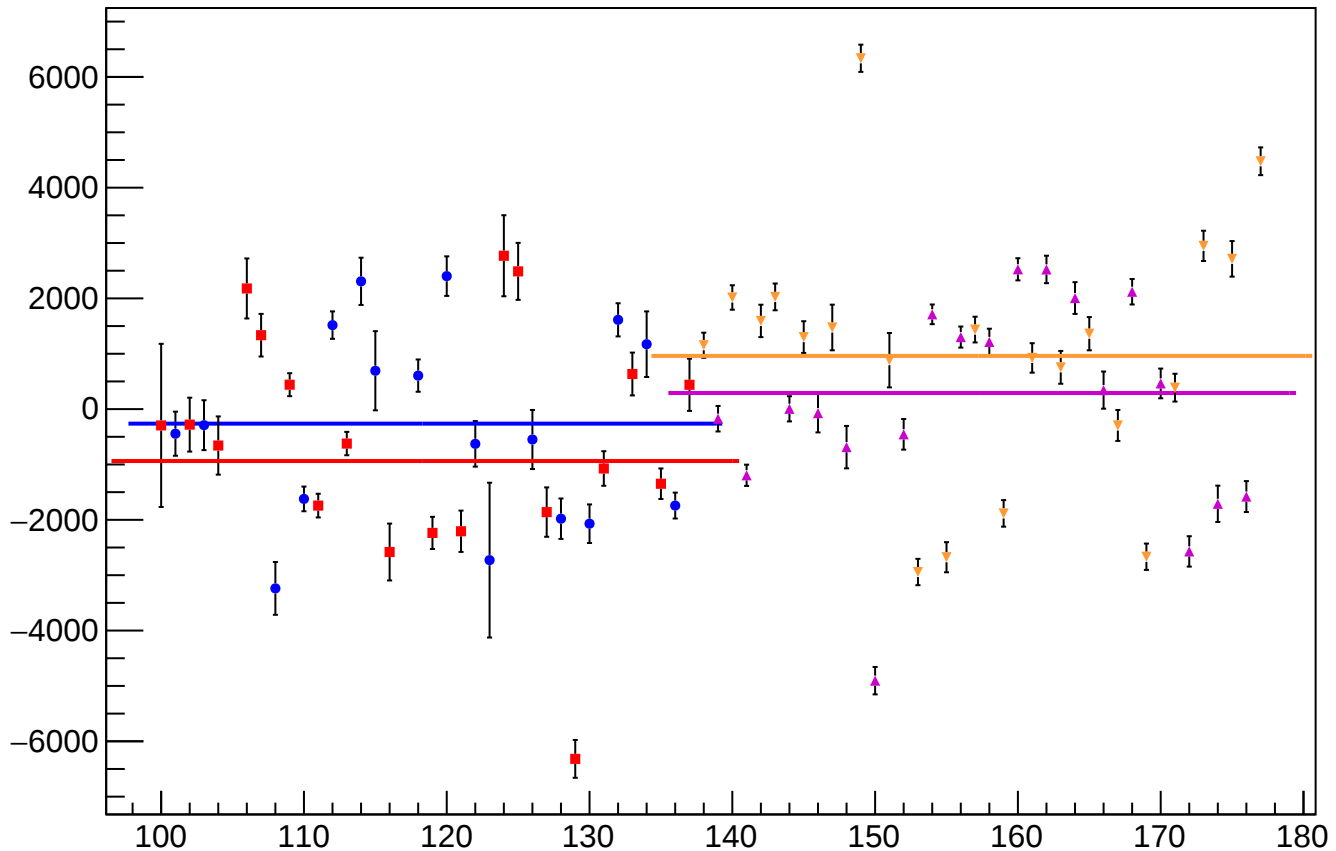
Right: 193.435+/-0.039 χ^2/NDF : 2483546.7/35

In: 199.887+/-0.032 χ^2/NDF : 2101324.6/35

Out: 207.096+/-0.032 χ^2/NDF : 2481306.4/39

All: 203.496+/-0.023 χ^2/NDF : 4608147.4/75

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324 ± 85.433 χ^2/NDF : 368.7/16

Left Out: 961.011 ± 58.070 χ^2/NDF : 1661.8/20

Right Out: -937.678 ± 78.434 χ^2/NDF : 521.9/18

Left In: 290.770 ± 56.170 χ^2/NDF : 1124.1/18

Left: 614.747 ± 40.373 χ^2/NDF : 2854.7/39

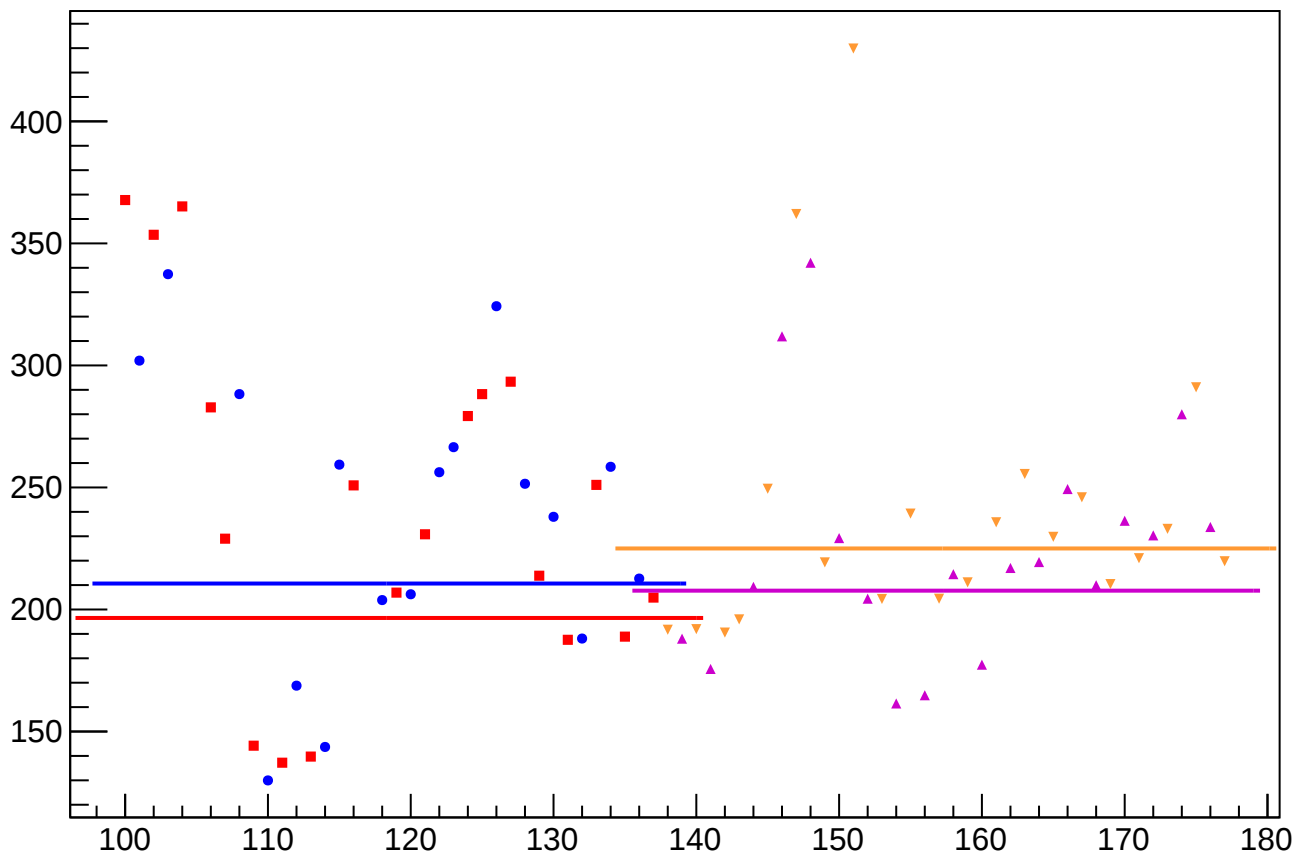
Right: -628.795 ± 57.777 χ^2/NDF : 924.5/35

In: 123.841 ± 46.935 χ^2/NDF : 1522.0/35

Out: 288.746 ± 46.671 χ^2/NDF : 2562.3/39

All: 206.758 ± 33.094 χ^2/NDF : 4090.5/75

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636 $\pm$ 0.060 χ^2 /NDF: 875776.4/16

Left Out: 225.005 $\pm$ 0.041 χ^2 /NDF: 903469.0/20

Right Out: 196.528 $\pm$ 0.055 χ^2 /NDF: 1205091.0/18

Left In: 207.715 $\pm$ 0.040 χ^2 /NDF: 983374.0/18

Left: 216.072 $\pm$ 0.029 χ^2 /NDF: 1978437.8/39

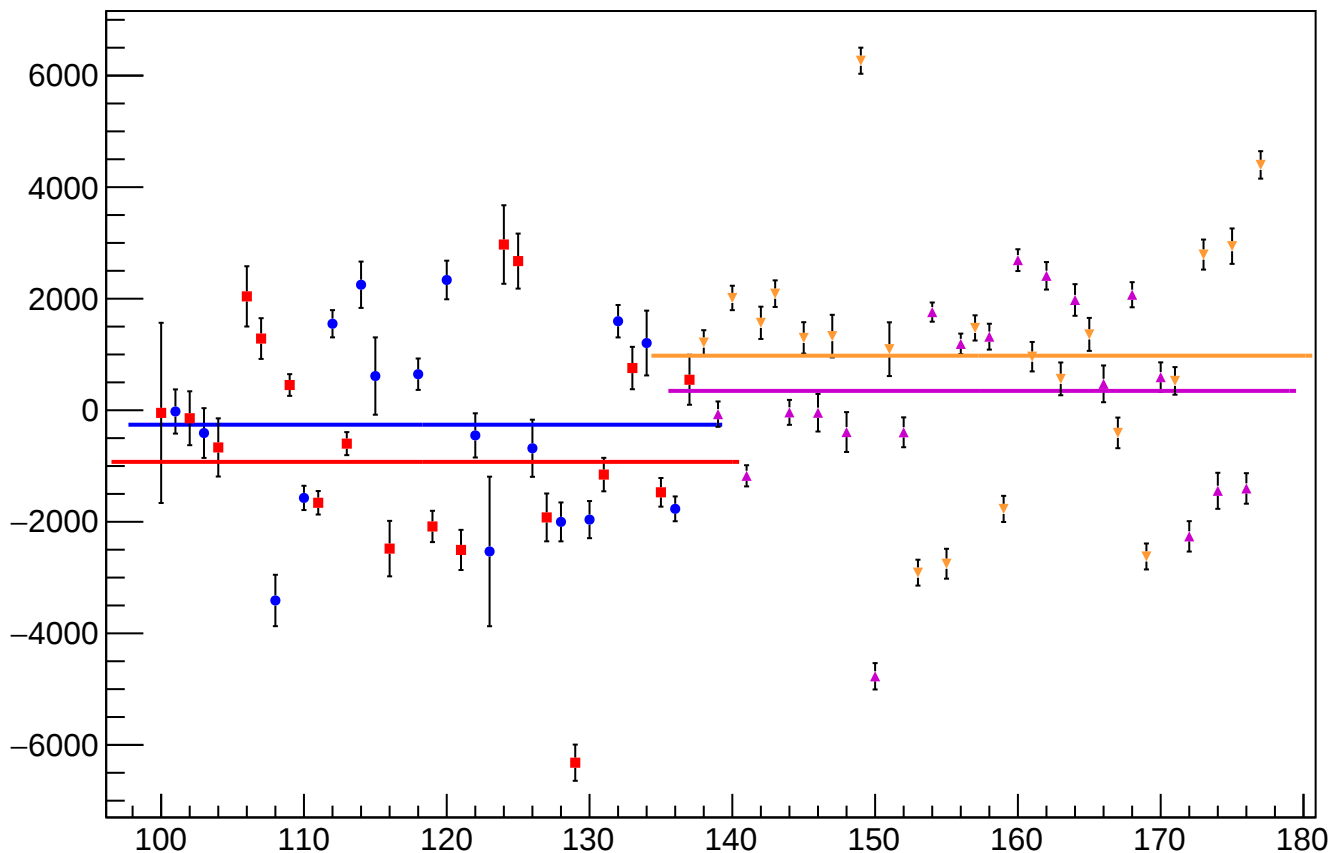
Right: 202.981 $\pm$ 0.041 χ^2 /NDF: 2110460.6/35

In: 208.597 $\pm$ 0.033 χ^2 /NDF: 1860782.6/35

Out: 214.922 $\pm$ 0.033 χ^2 /NDF: 2278846.8/39

All: 211.777 $\pm$ 0.023 χ^2 /NDF: 4157895.4/75

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139 ± 82.802 χ^2/NDF : 391.2/16

Left Out: 977.988 ± 56.926 χ^2/NDF : 1728.0/20

Right Out: -925.534 ± 75.503 χ^2/NDF : 581.9/18

Left In: 347.086 ± 54.887 χ^2/NDF : 1128.1/18

Left: 651.037 ± 39.512 χ^2/NDF : 2919.8/39

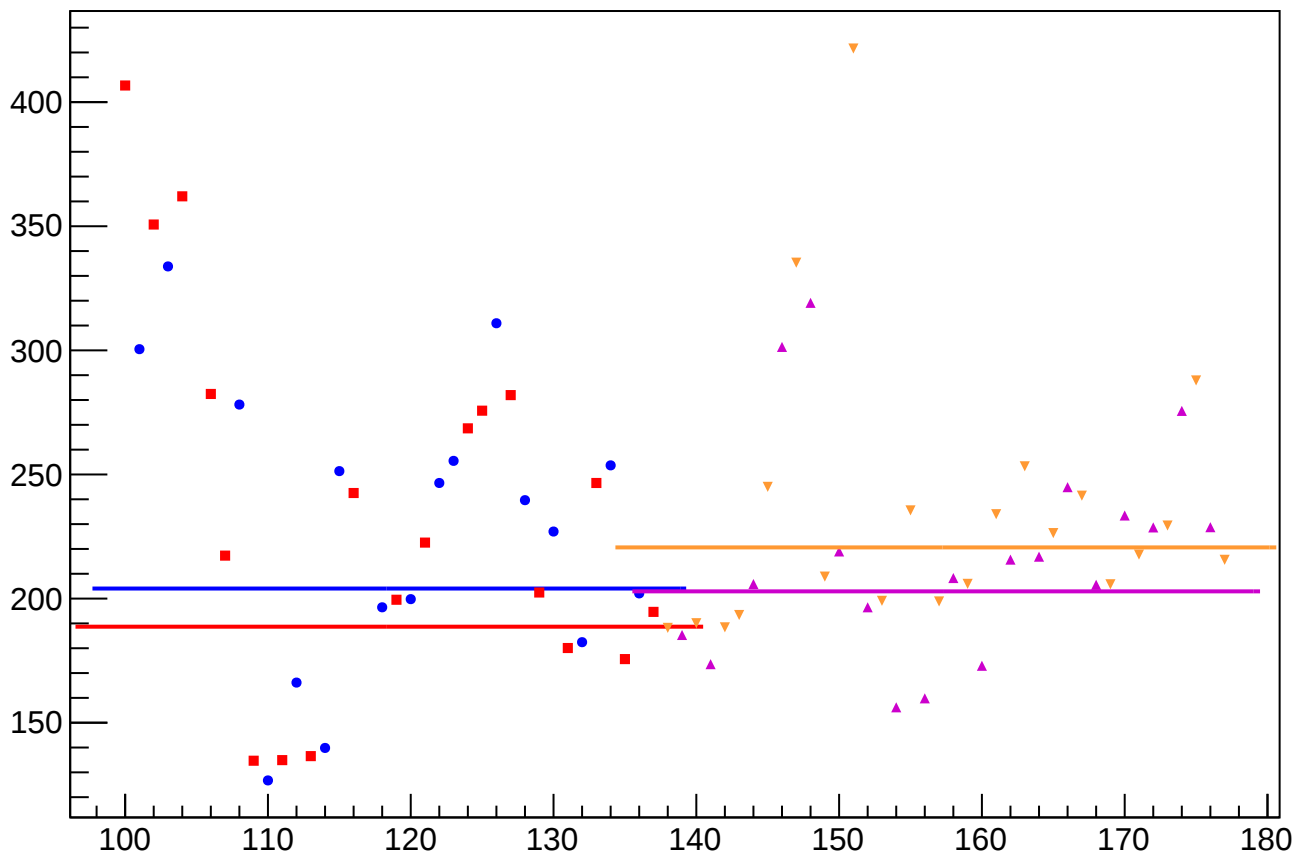
Right: -622.995 ± 55.791 χ^2/NDF : 1008.5/35

In: 162.025 ± 45.749 χ^2/NDF : 1556.6/35

Out: 288.100 ± 45.454 χ^2/NDF : 2715.1/39

All: 225.470 ± 32.245 χ^2/NDF : 4275.6/75

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 220.620+/-0.040 χ^2/NDF : 873570.6/20

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 202.913+/-0.039 χ^2/NDF : 964052.9/18

Left: 211.444+/-0.028 χ^2/NDF : 1937911.3/39

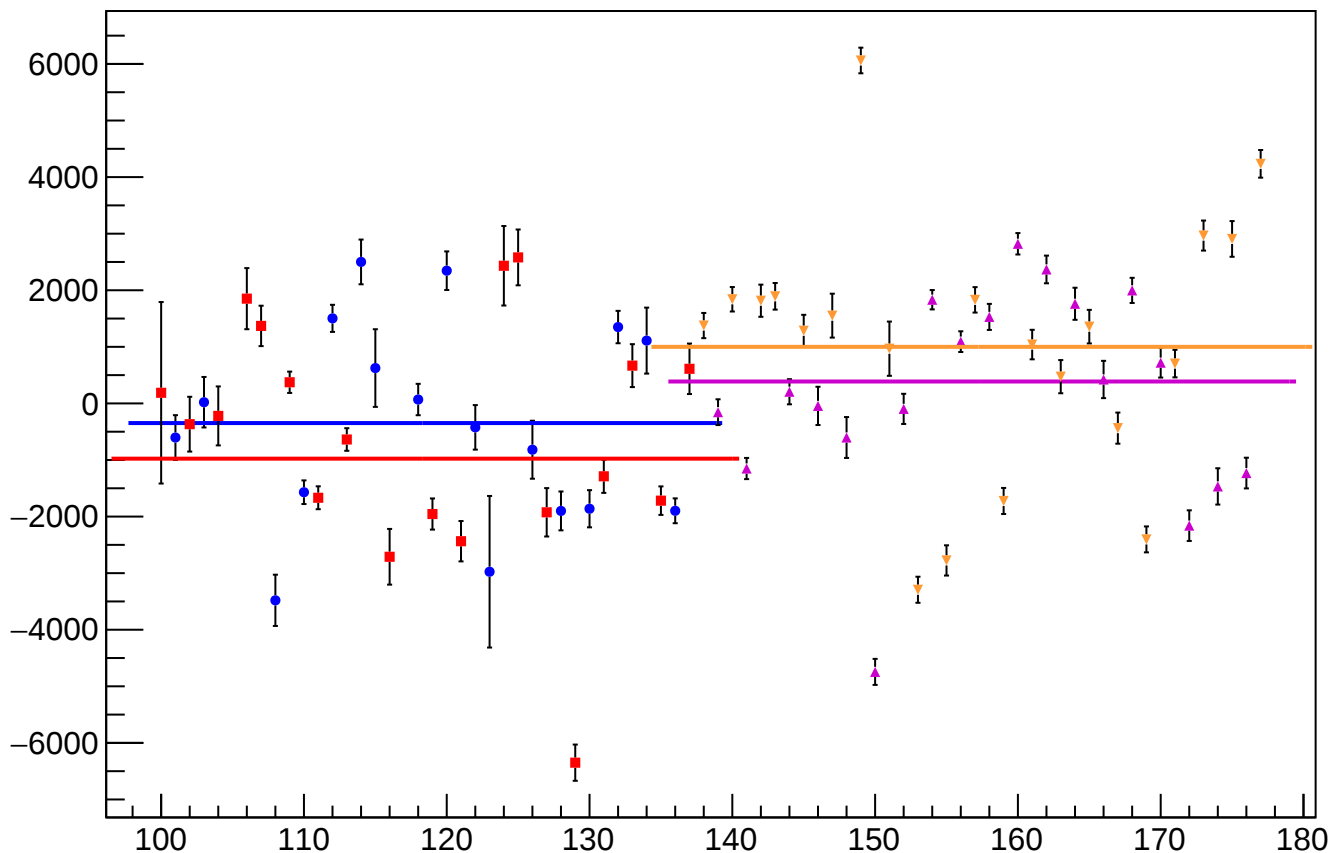
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 203.260+/-0.032 χ^2/NDF : 1832738.6/35

Out: 209.045+/-0.032 χ^2/NDF : 2352866.3/39

All: 206.171+/-0.023 χ^2/NDF : 4201693.8/75

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 $\chi^2/\text{NDF}: 399.1/16$

Left Out: 999.891 ± 56.401 $\chi^2/\text{NDF}: 1763.6/20$

Right Out: -976.286 ± 73.889 $\chi^2/\text{NDF}: 585.7/18$

Left In: 387.318 ± 54.371 $\chi^2/\text{NDF}: 1160.7/18$

Left: 682.383 ± 39.144 $\chi^2/\text{NDF}: 2985.4/39$

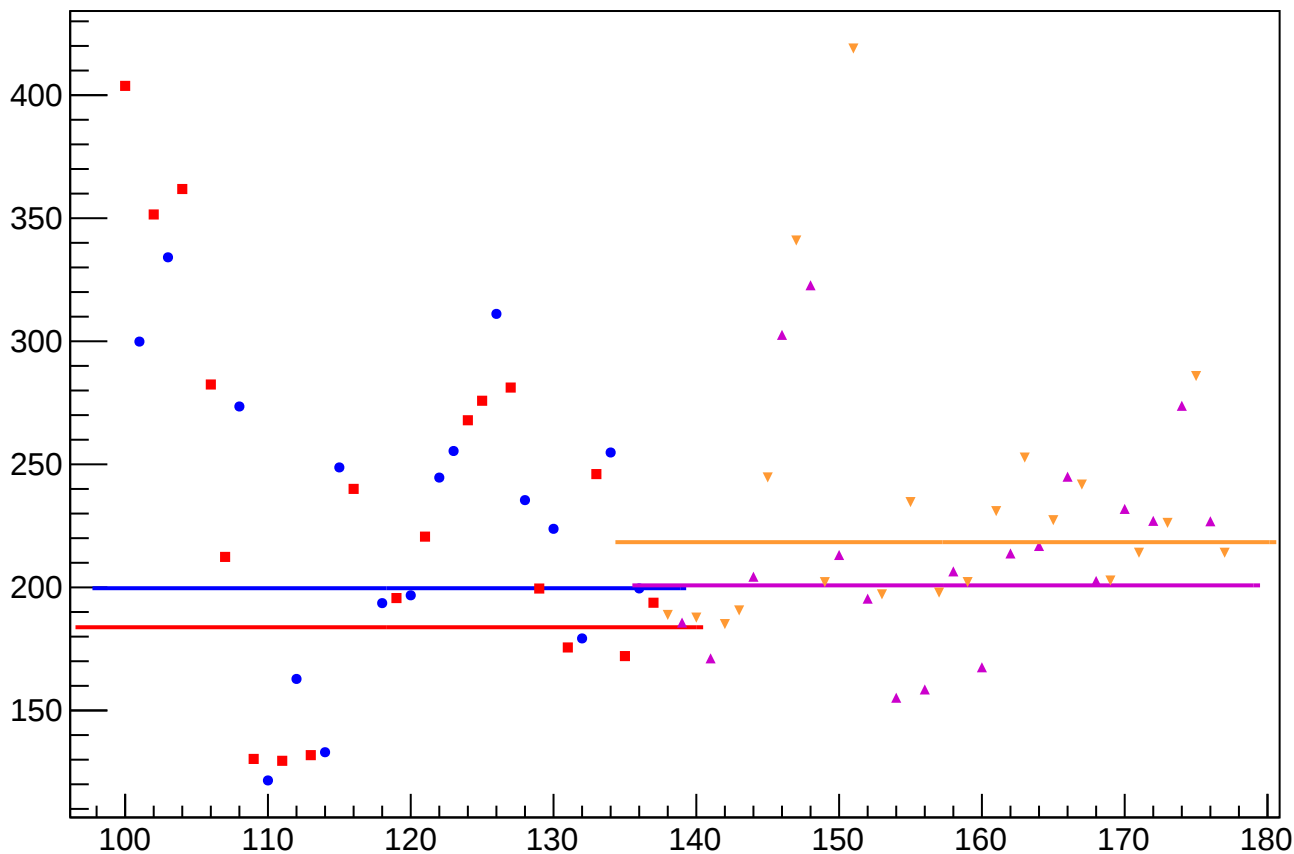
Right: -691.802 ± 54.685 $\chi^2/\text{NDF}: 1017.5/35$

In: 160.381 ± 45.198 $\chi^2/\text{NDF}: 1616.2/35$

Out: 272.359 ± 44.832 $\chi^2/\text{NDF}: 2801.2/39$

All: 216.826 ± 31.830 $\chi^2/\text{NDF}: 4420.5/75$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 218.381 $\pm$ 0.040 χ^2 /NDF: 911135.4/20

Right Out: 183.808 $\pm$ 0.052 χ^2 /NDF: 1349625.1/18

Left In: 200.823 $\pm$ 0.038 χ^2 /NDF: 1003562.9/18

Left: 209.280 $\pm$ 0.028 χ^2 /NDF: 2015154.9/39

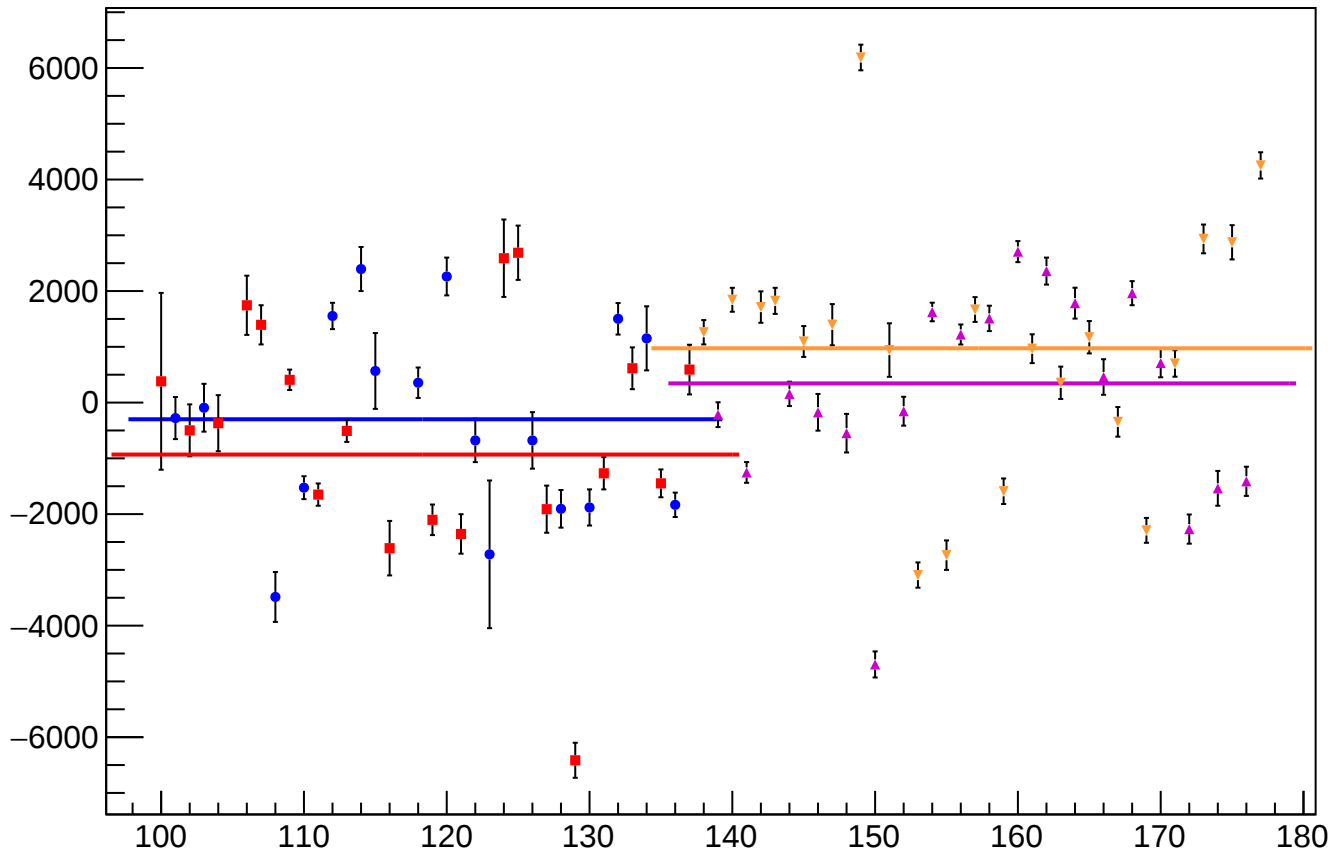
Right: 190.981 $\pm$ 0.039 χ^2 /NDF: 2334457.4/35

In: 200.467 $\pm$ 0.032 χ^2 /NDF: 1946996.4/35

Out: 205.653 $\pm$ 0.032 χ^2 /NDF: 2537417.5/39

All: 203.081 $\pm$ 0.023 χ^2 /NDF: 4497686.6/75

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963+/-80.162 χ^2/NDF : 406.6/16

Left Out: 973.879+/-55.499 χ^2/NDF :1743.1/20

Right Out: -931.843+/-72.751 χ^2/NDF : 614.8/18

Left In: 344.203+/-53.366 χ^2/NDF :1159.8/18

Left: 646.705+/-38.467 χ^2/NDF : 2969.8/39

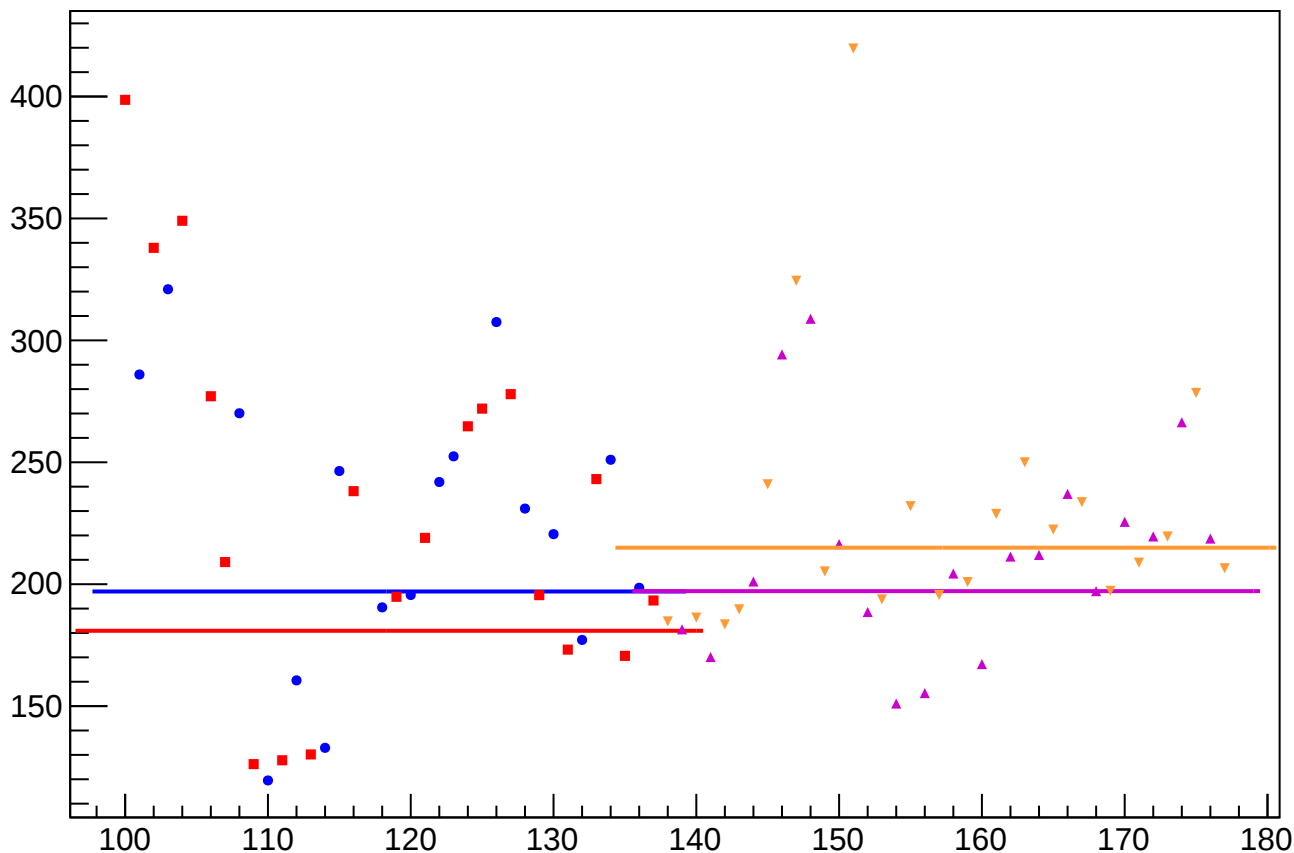
Right: -646.004+/-53.873 χ^2/NDF : 1055.6/35

In: 146.694+/-44.422 χ^2/NDF :1611.0/35

Out: 272.811+/-44.125 χ^2/NDF :2791.6/39

All: 210.175+/-31.306 χ^2/NDF : 4406.7/75

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 214.975+/-0.039 χ^2/NDF :880008.1/20

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 197.159+/-0.038 χ^2/NDF :959961.0/18

Left: 205.718+/-0.027 χ^2/NDF : 1947065.4/39

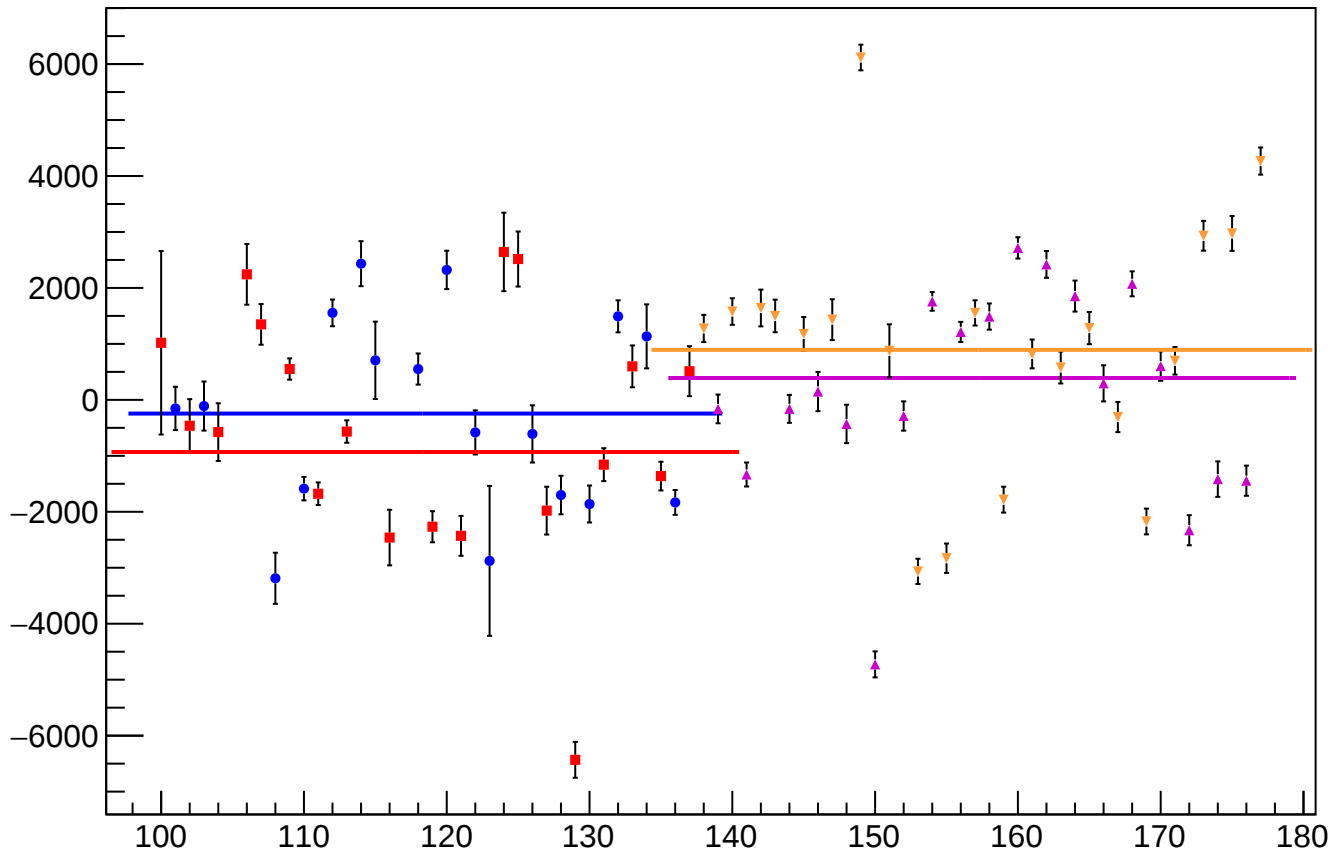
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 197.114+/-0.031 χ^2/NDF :1871889.1/35

Out: 202.442+/-0.031 χ^2/NDF :2502951.1/39

All: 199.796+/-0.022 χ^2/NDF : 4389322.7/75

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 893.333 ± 57.743 χ^2/NDF : 1690.3/20

Right Out: -931.272 ± 74.206 χ^2/NDF : 609.7/18

Left In: 390.651 ± 55.246 χ^2/NDF : 1169.7/18

Left: 630.888 ± 39.918 χ^2/NDF : 2899.6/39

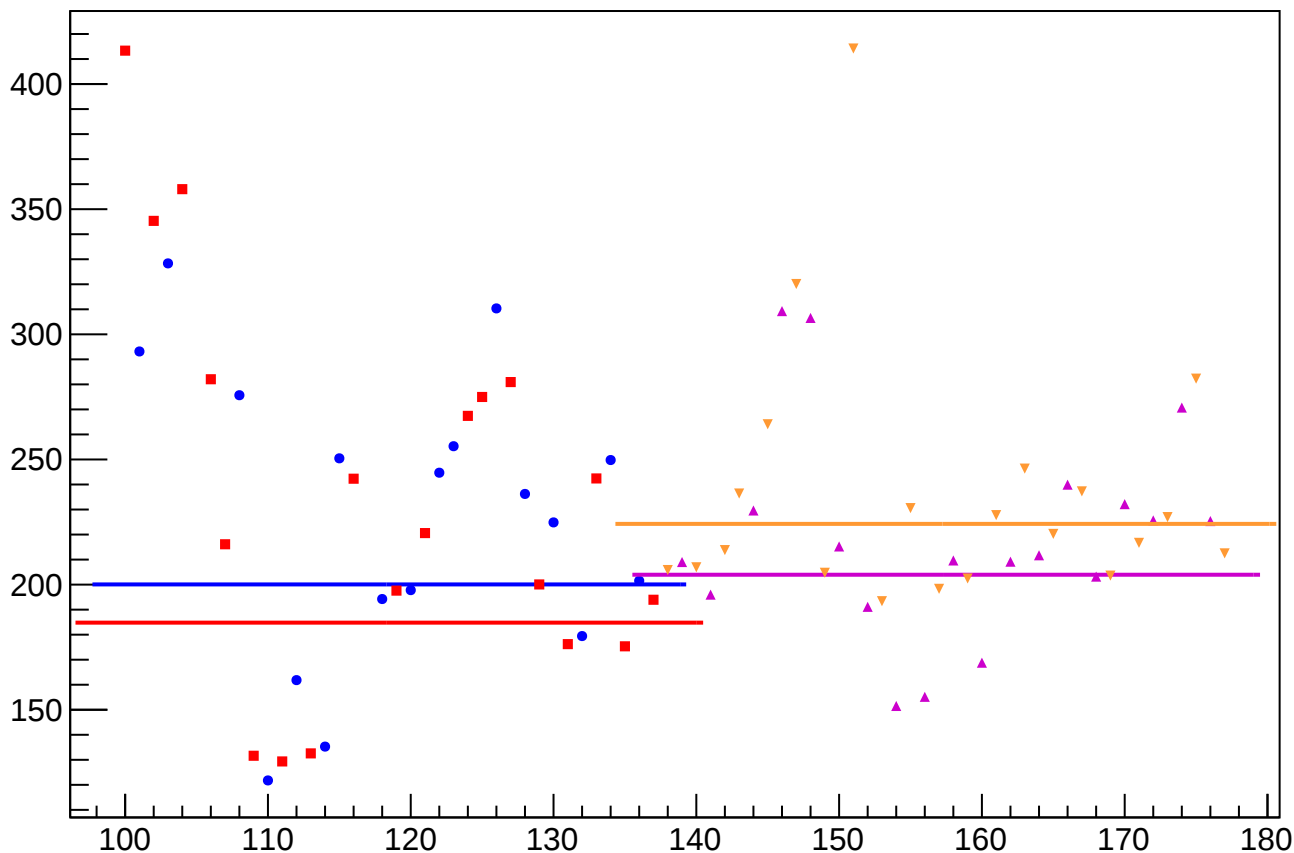
Right: -619.742 ± 54.837 χ^2/NDF : 1040.0/35

In: 190.198 ± 45.711 χ^2/NDF : 1602.9/35

Out: 205.195 ± 45.571 χ^2/NDF : 2676.6/39

All: 197.720 ± 32.273 χ^2/NDF : 4279.5/75

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 $\pm$ 0.058 χ^2 /NDF: 918309.2/16

Left Out: 224.266 $\pm$ 0.041 χ^2 /NDF: 728969.2/20

Right Out: 184.807 $\pm$ 0.052 χ^2 /NDF: 1318267.6/18

Left In: 203.947 $\pm$ 0.039 χ^2 /NDF: 972051.8/18

Left: 213.657 $\pm$ 0.028 χ^2 /NDF: 1830312.9/39

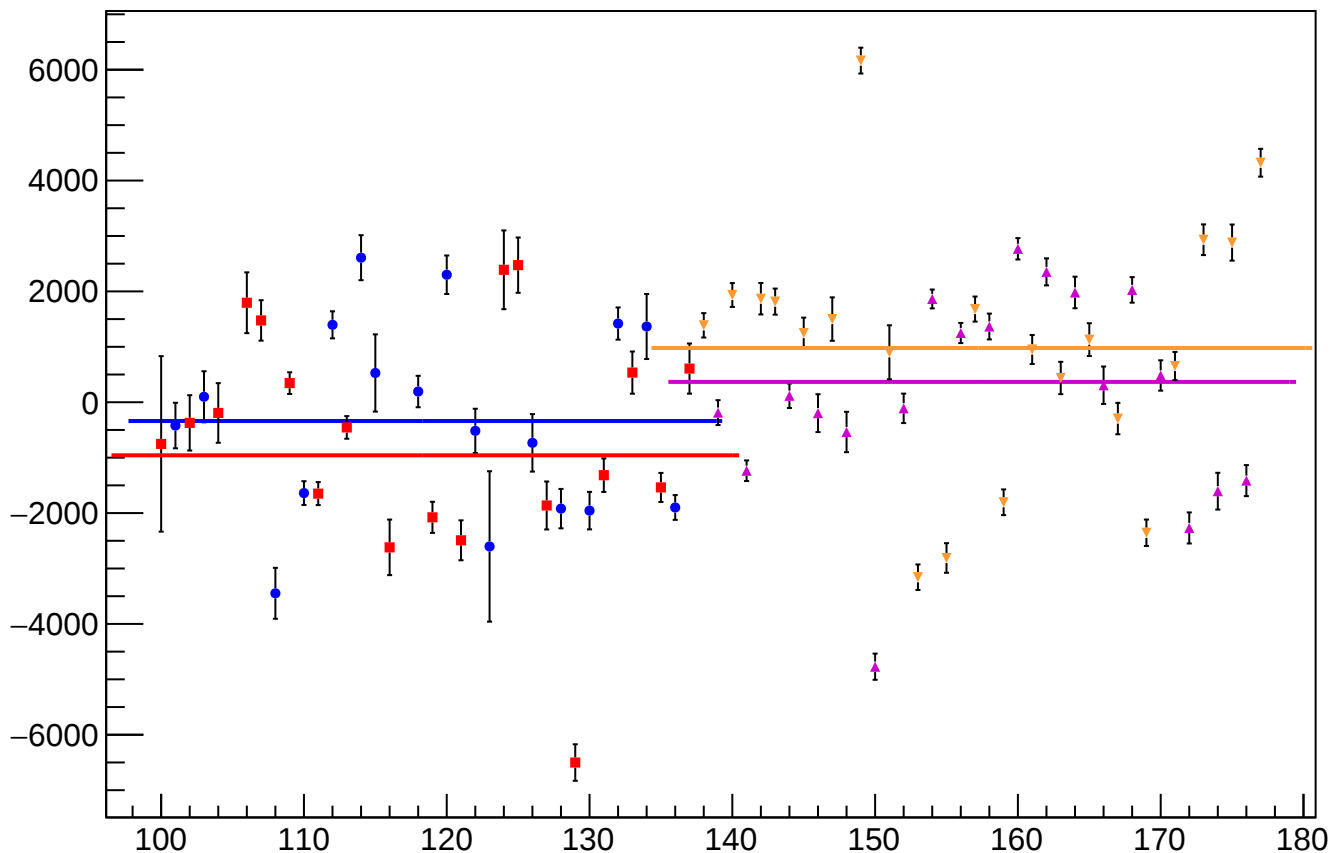
Right: 191.739 $\pm$ 0.039 χ^2 /NDF: 2275022.2/35

In: 202.727 $\pm$ 0.032 χ^2 /NDF: 1893454.3/35

Out: 209.384 $\pm$ 0.032 χ^2 /NDF: 2399462.1/39

All: 206.066 $\pm$ 0.023 χ^2 /NDF: 4314192.4/75

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Left: 660.776 ± 39.550 χ^2/NDF : 2917.4/39

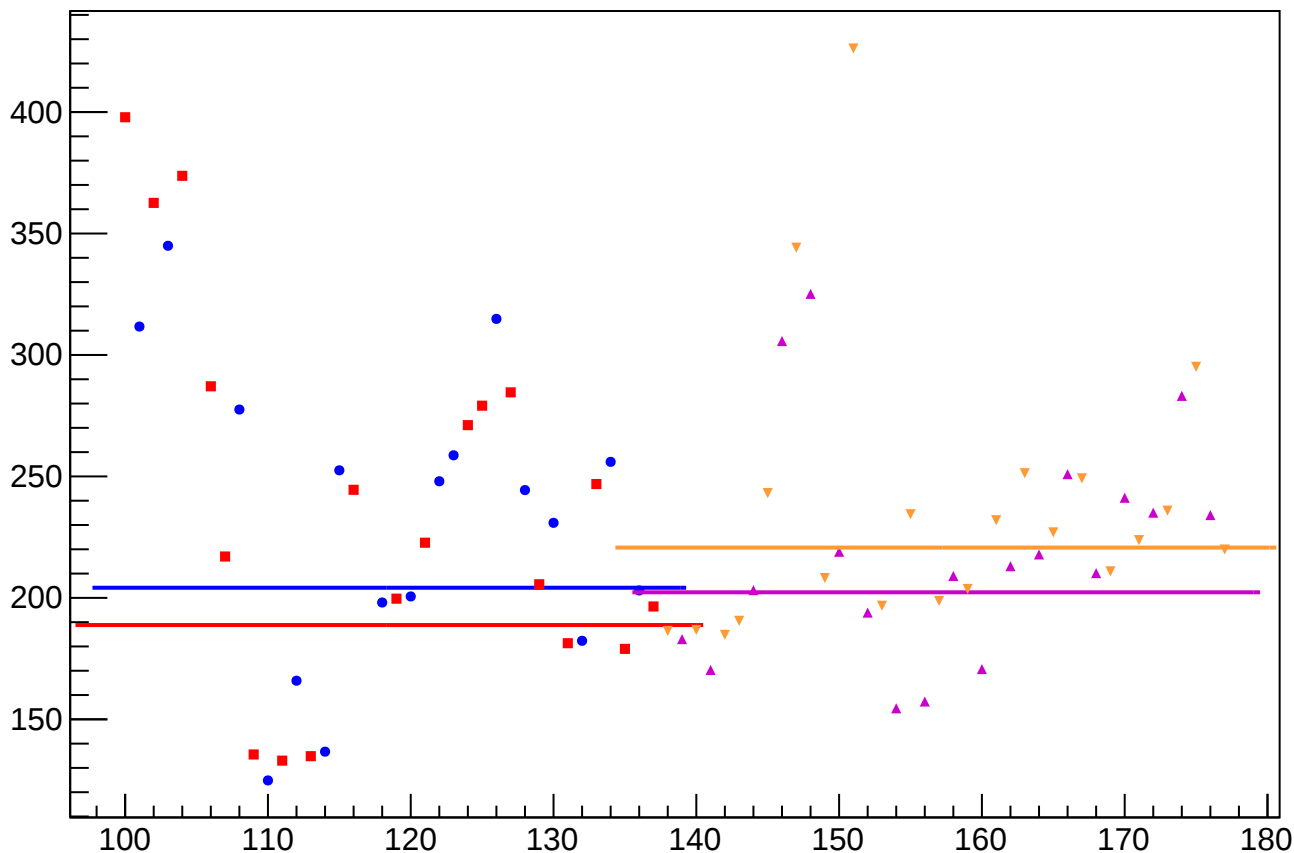
Right: -676.943 ± 55.988 χ^2/NDF : 990.0/35

In: 152.764 ± 45.797 χ^2/NDF : 1595.0/35

Out: 277.546 ± 45.571 χ^2/NDF : 2689.6/39

All: 215.463 ± 32.303 χ^2/NDF : 4288.3/75

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175 $\pm$ 0.059 χ^2 /NDF: 947438.5/16

Left Out: 220.706 $\pm$ 0.040 χ^2 /NDF:953625.9/20

Right Out: 188.821 $\pm$ 0.054 χ^2 /NDF: 1314891.2/18

Left In: 202.295 $\pm$ 0.039 χ^2 /NDF:1097385.7/18

Left: 211.143 $\pm$ 0.028 χ^2 /NDF: 2159190.5/39

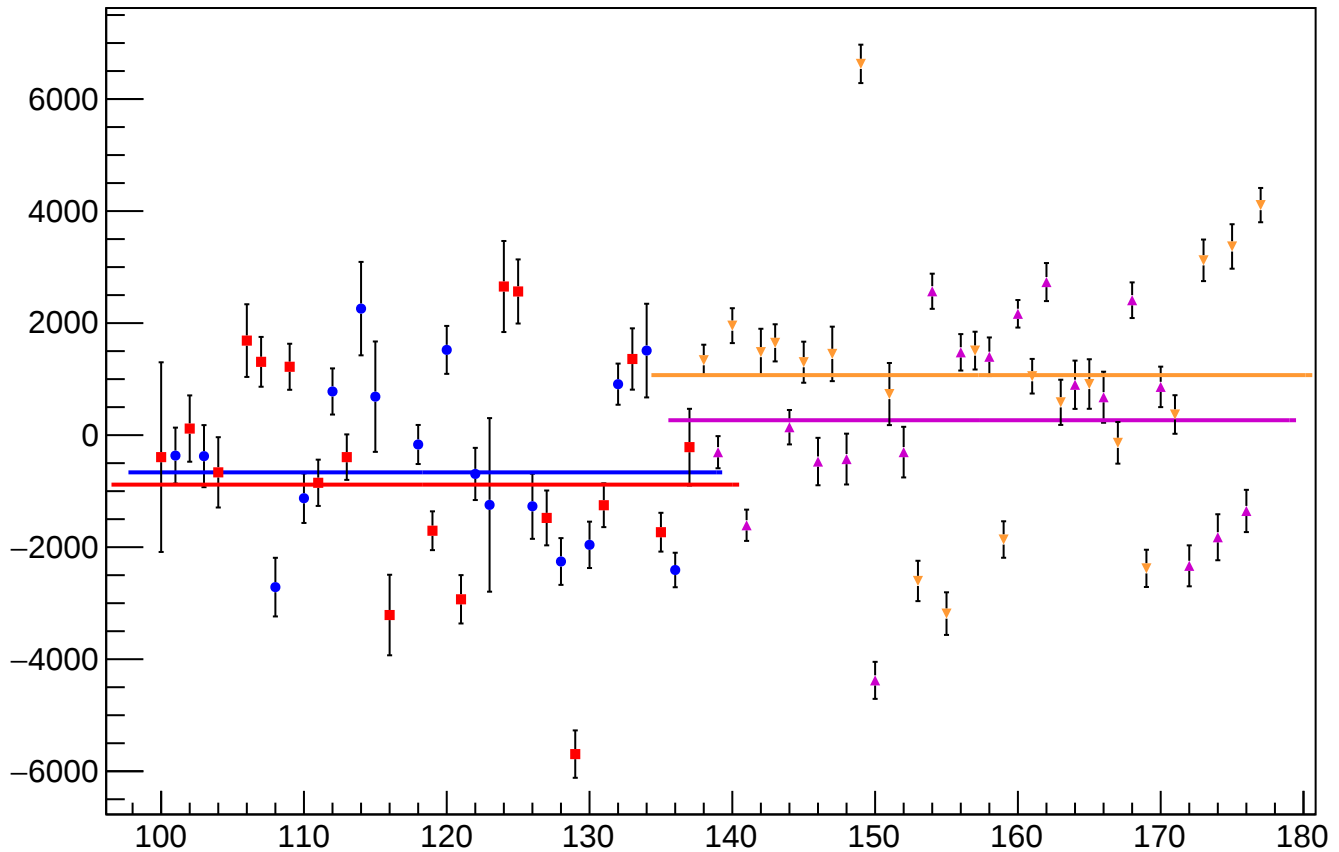
Right: 195.787 $\pm$ 0.040 χ^2 /NDF: 2299610.3/35

In: 202.866 $\pm$ 0.032 χ^2 /NDF:2045536.4/35

Out: 209.165 $\pm$ 0.032 χ^2 /NDF:2494621.6/39

All: 206.031 $\pm$ 0.023 χ^2 /NDF: 4559171.7/75

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383 ± 113.949 $\chi^2/\text{NDF}: 154.3/16$

Left Out: 1071.623 ± 77.803 $\chi^2/\text{NDF}: 875.5/20$

Right Out: -883.255 ± 110.875 $\chi^2/\text{NDF}: 320.1/18$

Left In: 266.207 ± 78.688 $\chi^2/\text{NDF}: 590.5/18$

Left: 673.472 ± 55.325 $\chi^2/\text{NDF}: 1519.0/39$

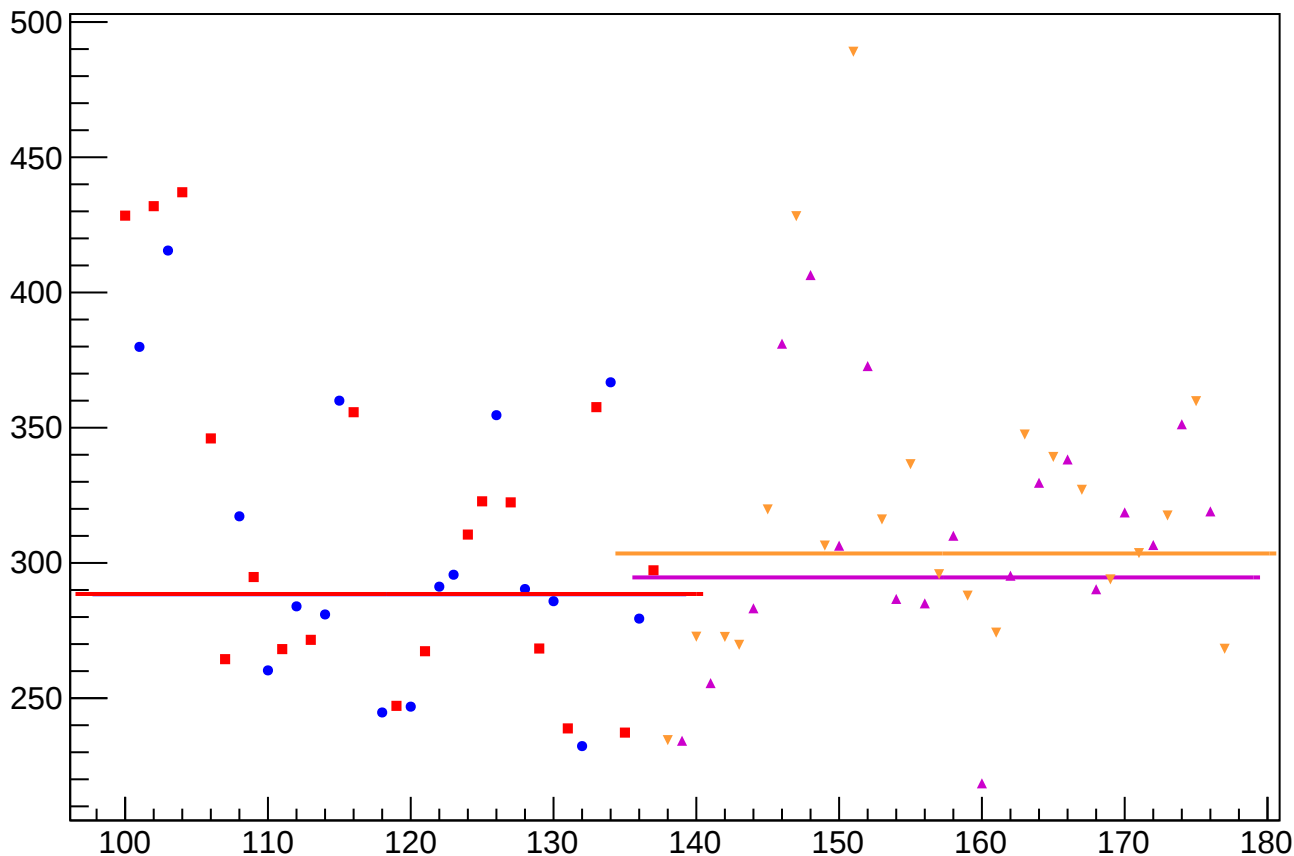
Right: -776.811 ± 79.465 $\chi^2/\text{NDF}: 476.3/35$

In: -34.274 ± 64.750 $\chi^2/\text{NDF}: 790.0/35$

Out: 426.625 ± 63.687 $\chi^2/\text{NDF}: 1403.8/39$

All: 199.988 ± 45.405 $\chi^2/\text{NDF}: 2219.6/75$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428 ± 0.081 $\chi^2/\text{NDF}: 339820.0/16$

Left Out: 303.501 ± 0.055 $\chi^2/\text{NDF}: 691993.3/20$

Right Out: 288.522 ± 0.078 $\chi^2/\text{NDF}: 455410.1/18$

Left In: 294.649 ± 0.056 $\chi^2/\text{NDF}: 685875.3/18$

Left: 299.125 ± 0.039 $\chi^2/\text{NDF}: 1390666.4/39$

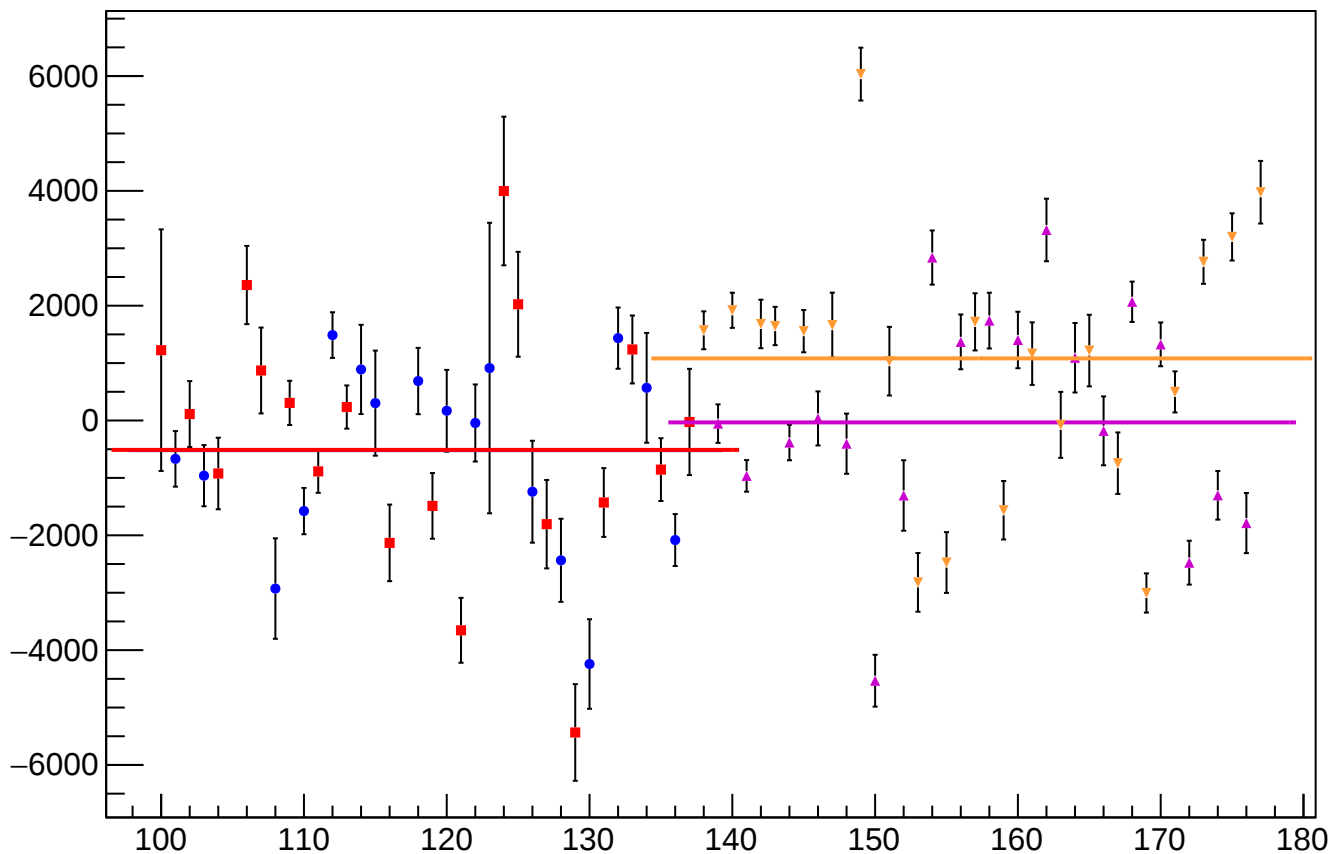
Right: 288.476 ± 0.056 $\chi^2/\text{NDF}: 795230.9/35$

In: 292.640 ± 0.046 $\chi^2/\text{NDF}: 1029731.4/35$

Out: 298.559 ± 0.045 $\chi^2/\text{NDF}: 1171862.2/39$

All: 295.648 ± 0.032 $\chi^2/\text{NDF}: 2210086.4/75$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 ± 147.326 $\chi^2/\text{NDF}: 108.0/16$

Left Out: 1081.831 ± 94.240 $\chi^2/\text{NDF}: 500.2/20$

Right Out: -511.851 ± 135.798 $\chi^2/\text{NDF}: 141.3/18$

Left In: -33.081 ± 97.394 $\chi^2/\text{NDF}: 335.3/18$

Left: 542.721 ± 67.726 $\chi^2/\text{NDF}: 903.2/39$

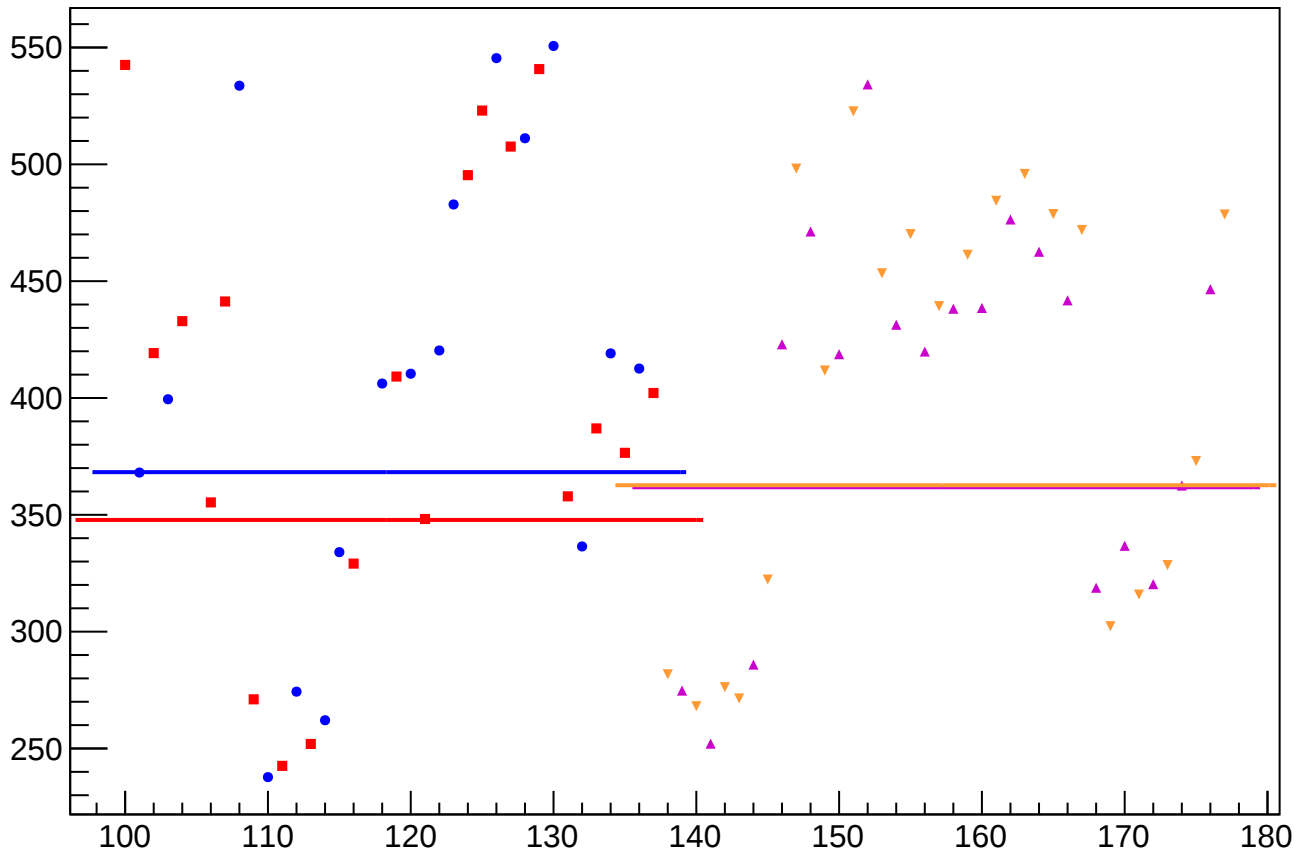
Right: -513.708 ± 99.851 $\chi^2/\text{NDF}: 249.3/35$

In: -179.913 ± 81.246 $\chi^2/\text{NDF}: 450.8/35$

Out: 563.801 ± 77.423 $\chi^2/\text{NDF}: 734.4/39$

All: 209.851 ± 56.049 $\chi^2/\text{NDF}: 1229.1/75$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 362.670+/-0.067 χ^2/NDF : 1680892.7/20

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 361.794+/-0.069 χ^2/NDF : 1348750.6/18

Left: 362.247+/-0.048 χ^2/NDF : 3029726.9/39

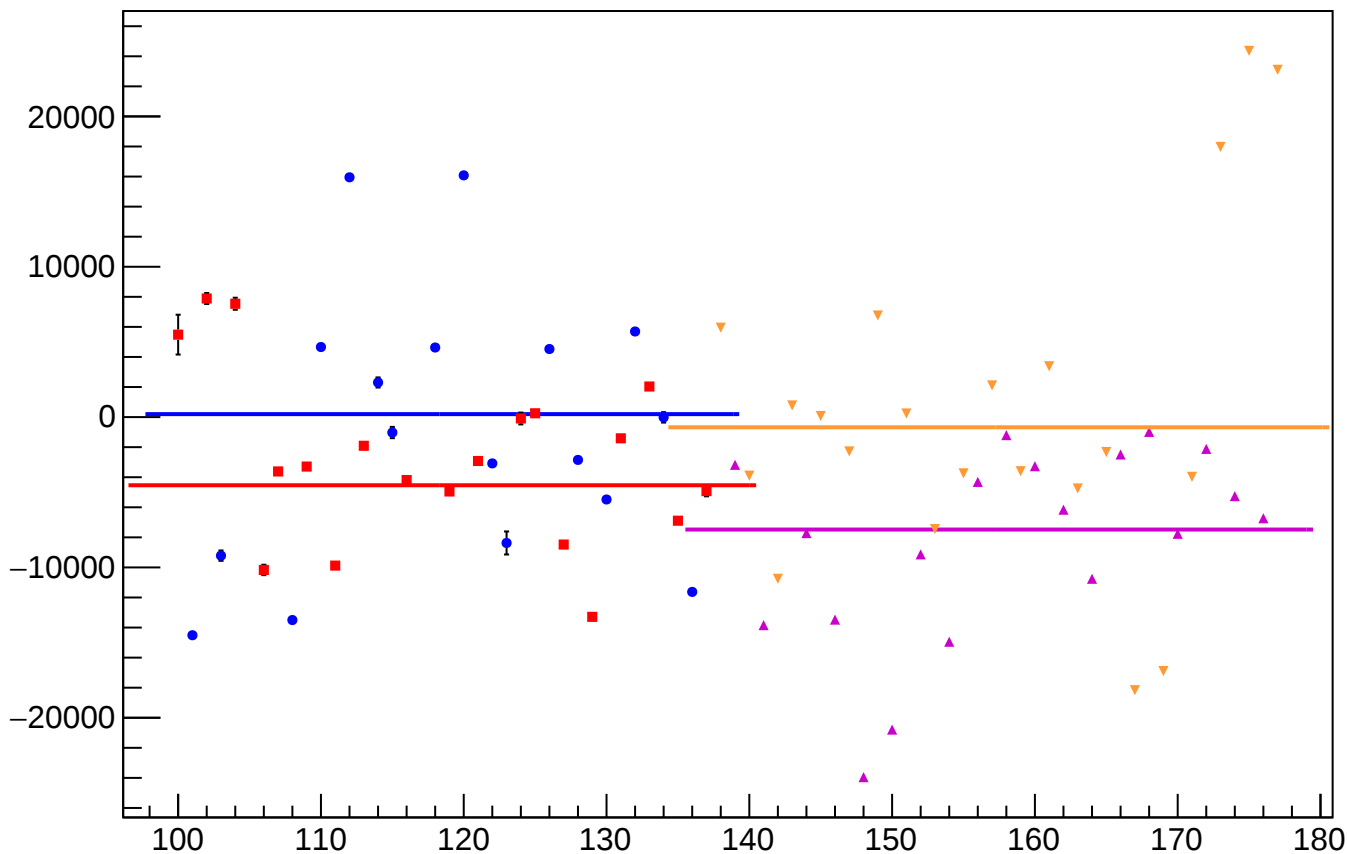
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 363.762+/-0.057 χ^2/NDF : 2121551.3/35

Out: 357.838+/-0.055 χ^2/NDF : 2518937.4/39

All: 360.657+/-0.040 χ^2/NDF : 4646061.8/75

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008+/-54.799 χ^2/NDF : 30658.3/16

Left Out: -679.019+/-44.315 χ^2/NDF : 52869.3/20

Right Out: -4534.200+/-52.462 χ^2/NDF : 7477.2/18

Left In: -7479.863+/-46.370 χ^2/NDF : 17297.4/18

Left: -3925.415+/-32.037 χ^2/NDF : 81409.3/39

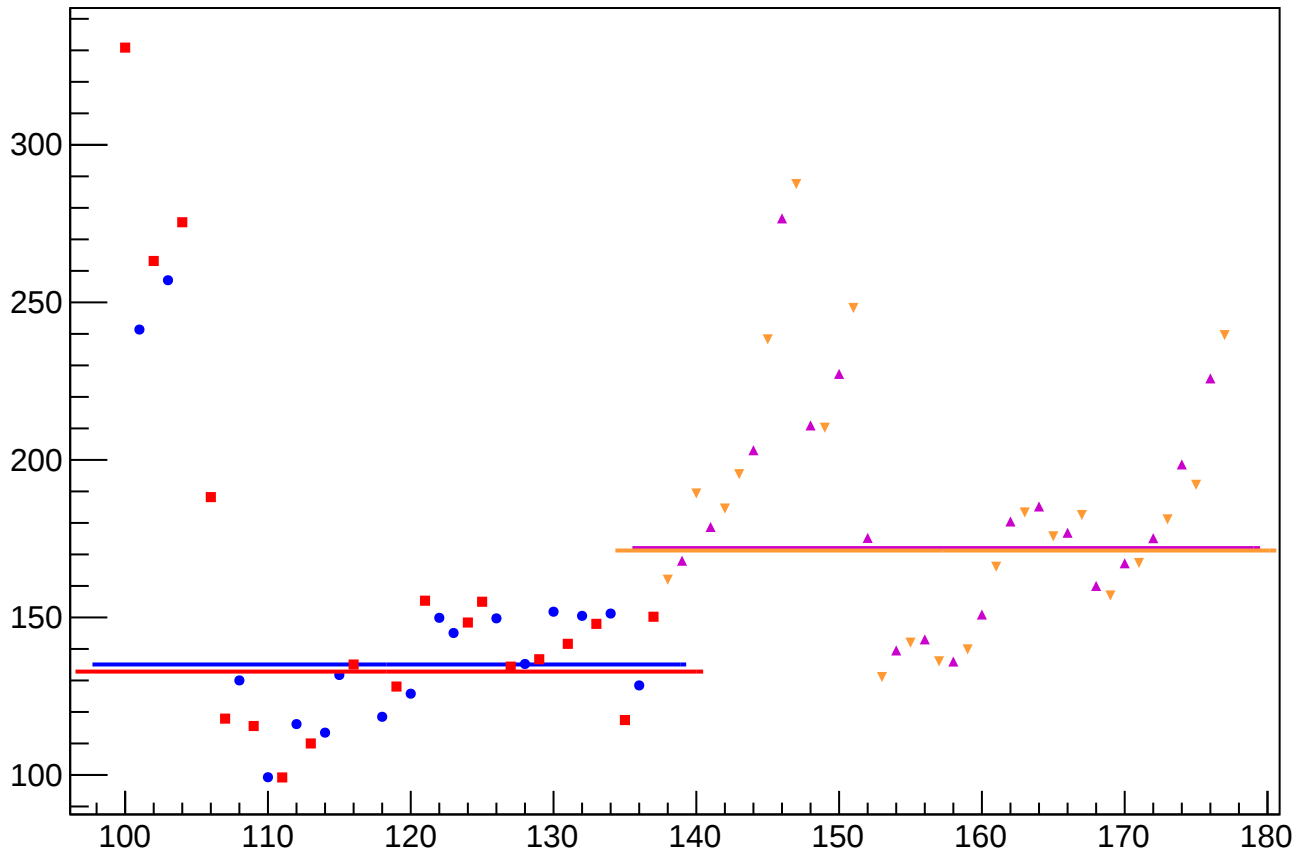
Right: -2271.626+/-37.895 χ^2/NDF : 42025.0/35

In: -4276.619+/-35.397 χ^2/NDF : 59392.6/35

Out: -2284.355+/-33.853 χ^2/NDF : 63498.0/39

All: -3236.090+/-24.466 χ^2/NDF : 124545.0/77

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 171.246 $\pm$ 0.031 χ^2 /NDF: 1181064.4/20

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 172.015 $\pm$ 0.033 χ^2 /NDF: 854493.3/18

Left: 171.613 $\pm$ 0.023 χ^2 /NDF: 2035845.4/39

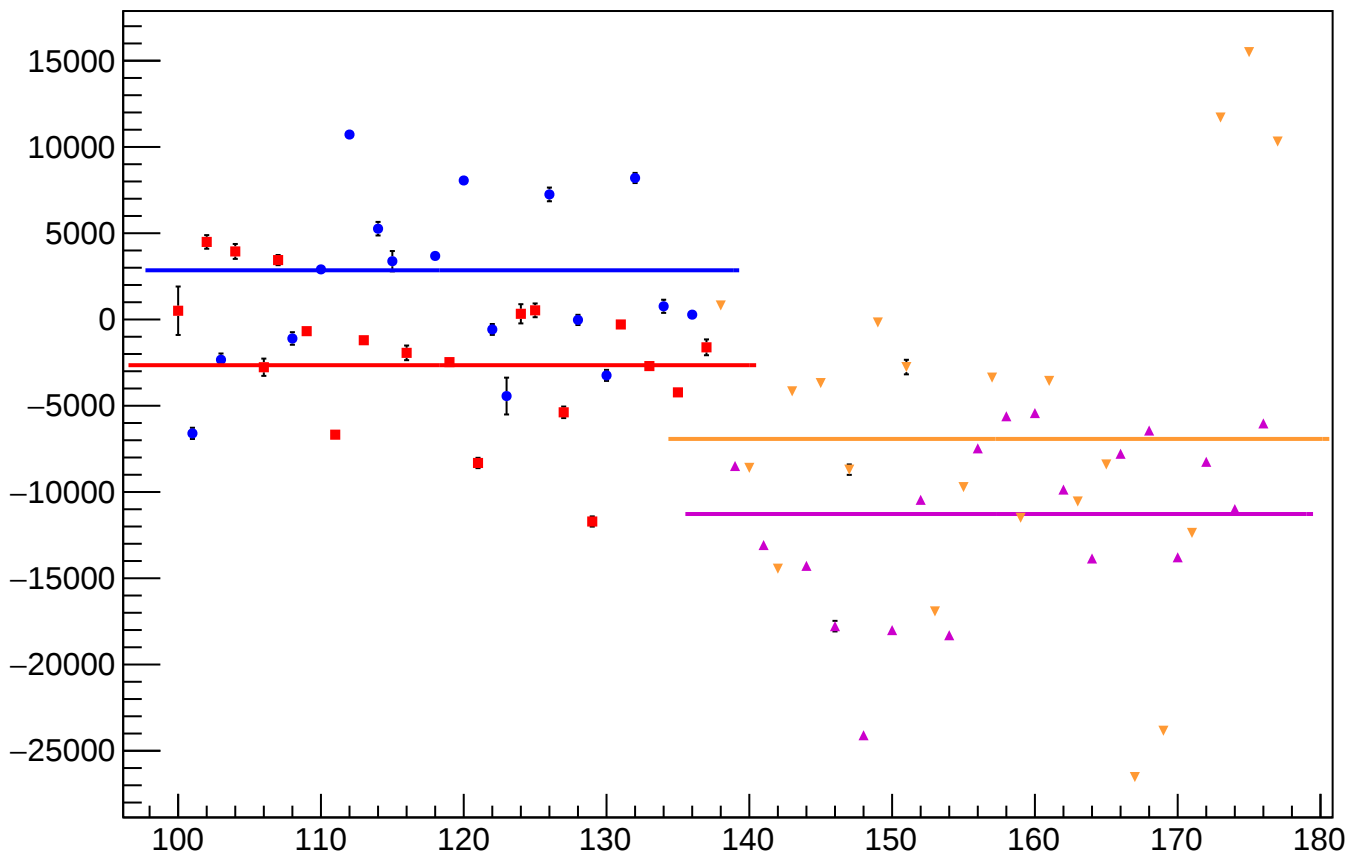
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 156.600 $\pm$ 0.025 χ^2 /NDF: 2042904.3/35

Out: 155.243 $\pm$ 0.024 χ^2 /NDF: 2638559.4/39

All: 155.891 $\pm$ 0.017 χ^2 /NDF: 4682998.4/75

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -6923.044+/-49.472 χ^2/NDF :44540.6/20

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11275.058+/-47.256 χ^2/NDF :11295.1/18

Left: -9198.701+/-34.171 χ^2/NDF : 59882.2/39

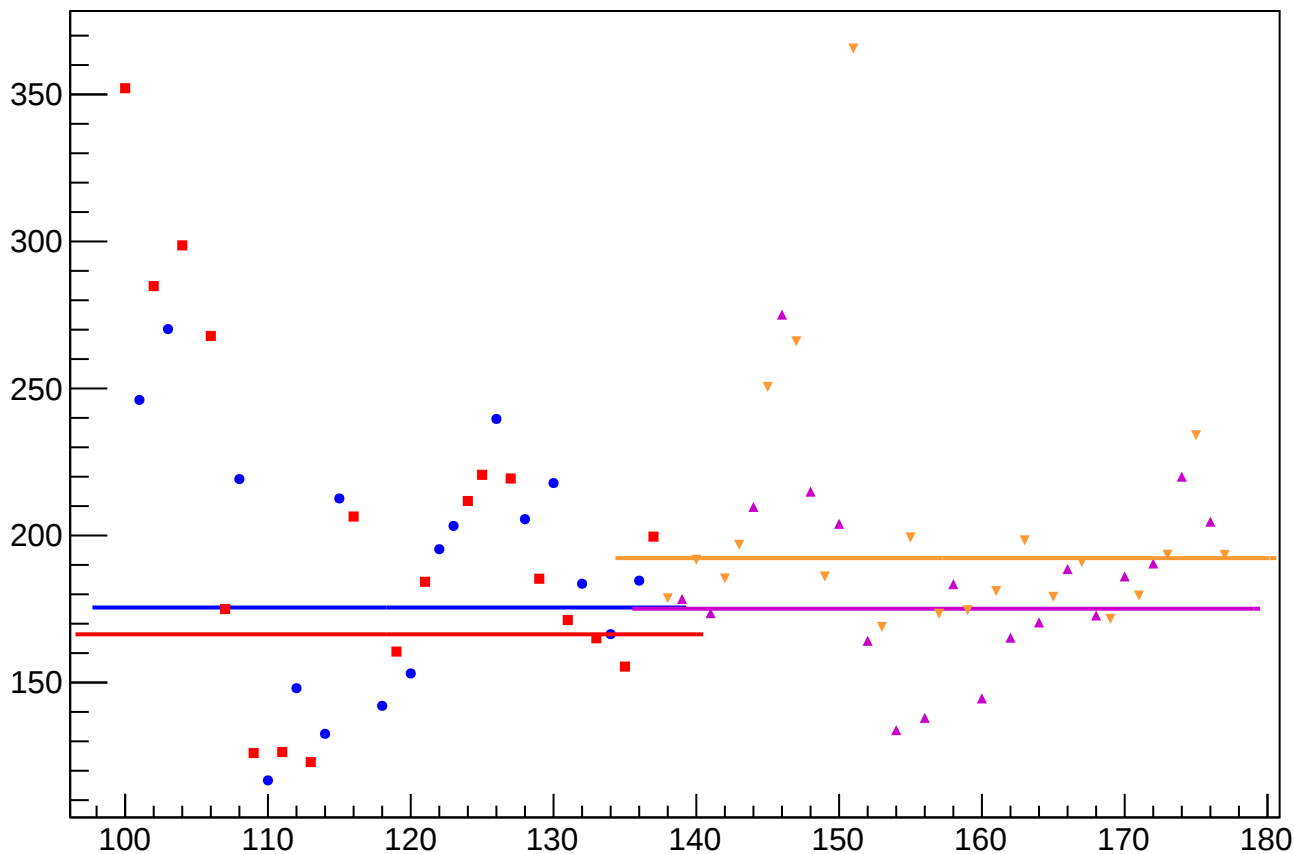
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6917.373+/-39.297 χ^2/NDF :43039.8/35

Out: -5377.511+/-39.527 χ^2/NDF :50415.2/39

All: -6151.941+/-27.868 χ^2/NDF : 94218.2/75

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.308+/-0.035 χ^2/NDF : 711123.1/20

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 175.096+/-0.033 χ^2/NDF : 807542.6/18

Left: 183.307+/-0.024 χ^2/NDF : 1645253.2/39

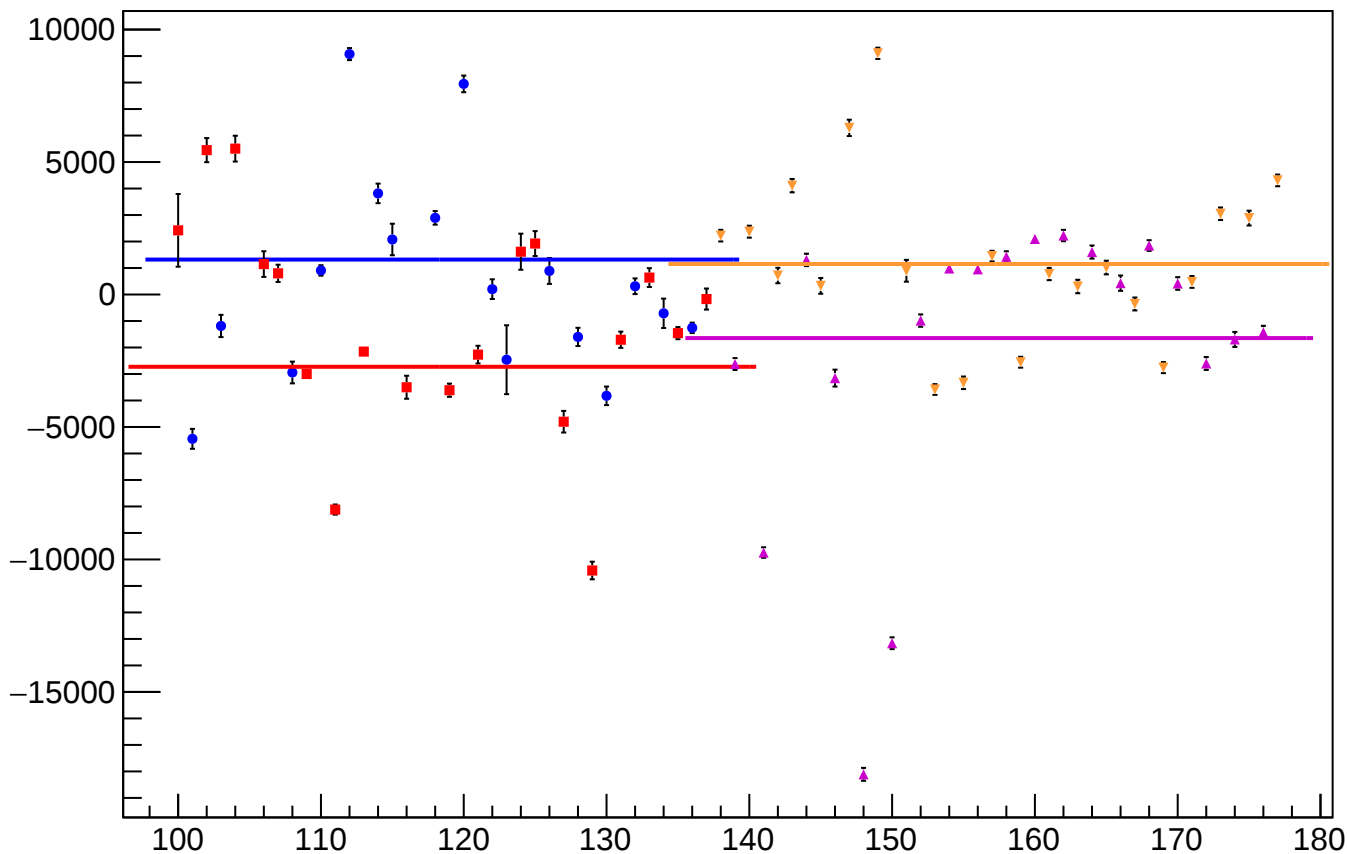
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 175.225+/-0.028 χ^2/NDF : 1497233.2/35

Out: 182.936+/-0.028 χ^2/NDF : 1839112.6/39

All: 179.058+/-0.020 χ^2/NDF : 3374629.5/75

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009 $\pm$ 77.146 χ^2 /NDF: 2667.0/16

Left Out: 1152.137 $\pm$ 52.102 χ^2 /NDF:3820.0/20

Right Out: -2727.798 $\pm$ 70.029 χ^2 /NDF: 2495.9/18

Left In: -1644.707 $\pm$ 49.675 χ^2 /NDF:11303.6/18

Left: -312.933 $\pm$ 35.953 χ^2 /NDF: 16633.1/39

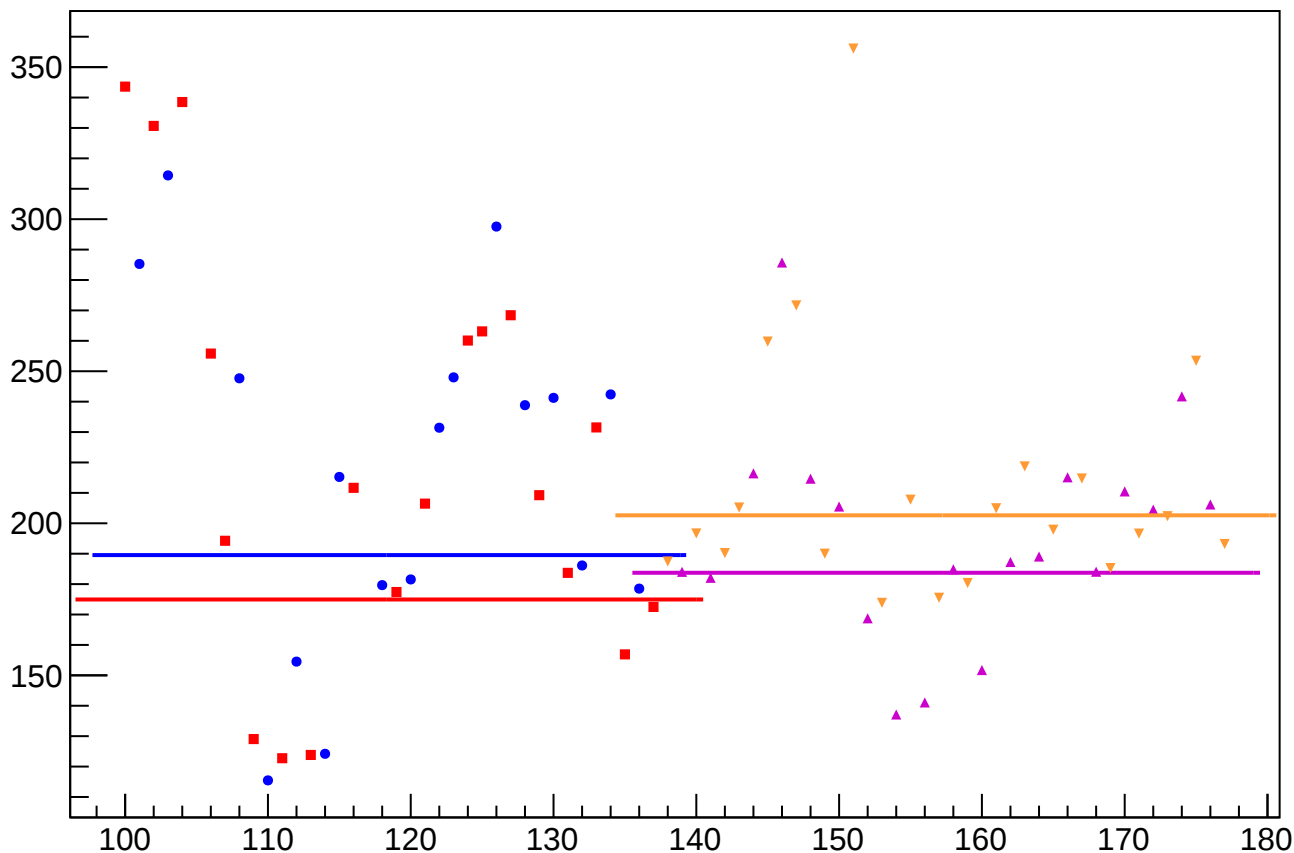
Right: -899.614 $\pm$ 51.852 χ^2 /NDF: 6671.5/35

In: -776.050 $\pm$ 41.765 χ^2 /NDF:15013.9/35

Out: -230.307 $\pm$ 41.801 χ^2 /NDF:8291.8/39

All: -503.413 $\pm$ 29.545 χ^2 /NDF: 23391.0/75

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.623 $\pm$ 0.037 χ^2 /NDF: 672848.7/20

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 183.730 $\pm$ 0.035 χ^2 /NDF: 863920.6/18

Left: 192.726 $\pm$ 0.025 χ^2 /NDF: 1674532.9/39

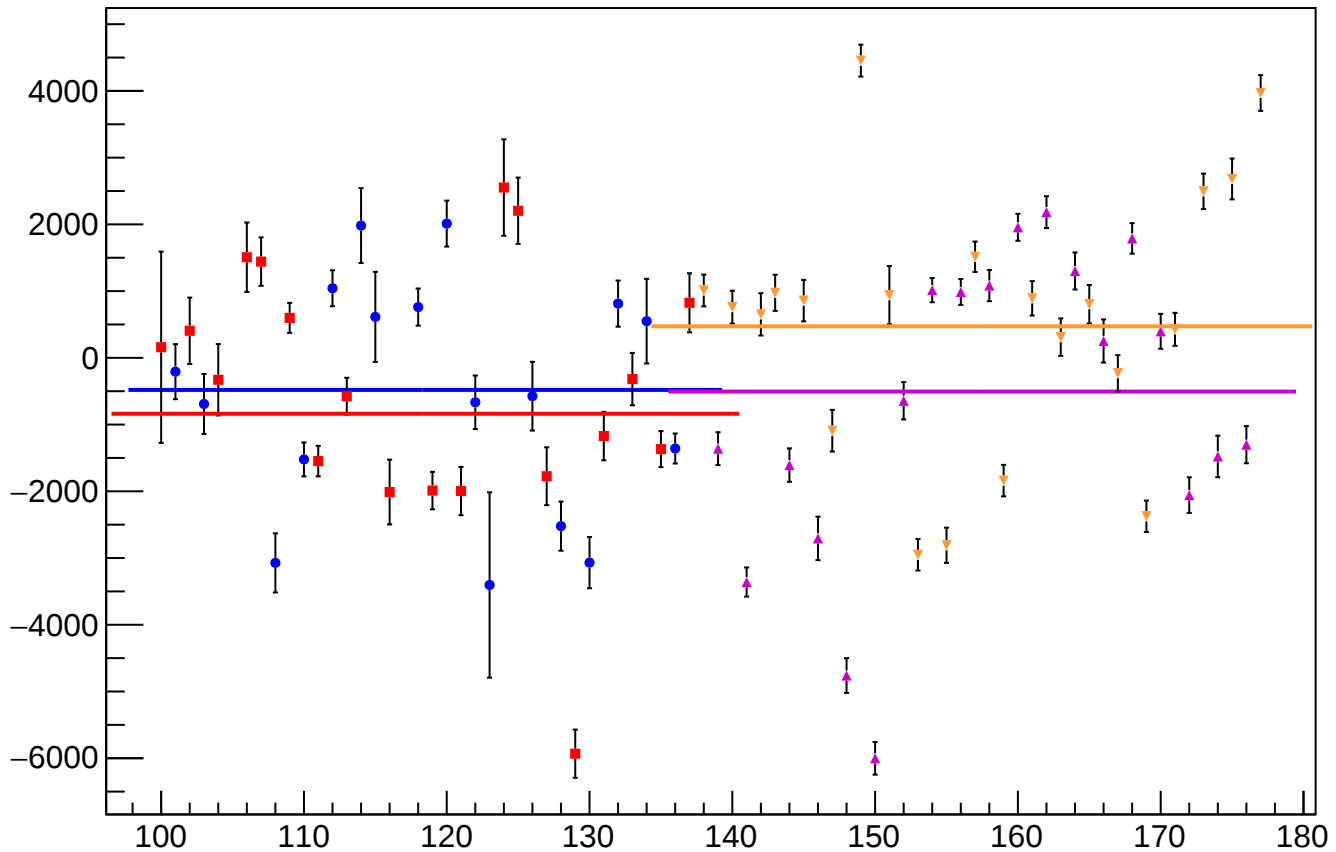
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 185.434 $\pm$ 0.030 χ^2 /NDF: 1852697.3/35

Out: 192.761 $\pm$ 0.030 χ^2 /NDF: 2171079.1/39

All: 189.094 $\pm$ 0.021 χ^2 /NDF: 4054523.8/75

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 ± 88.640 χ^2/NDF : 290.7/16

Left Out: 472.752 ± 58.004 χ^2/NDF : 1234.5/20

Right Out: -837.442 ± 82.243 χ^2/NDF : 435.3/18

Left In: -505.379 ± 56.082 χ^2/NDF : 1681.9/18

Left: -32.790 ± 40.318 χ^2/NDF : 3063.4/39

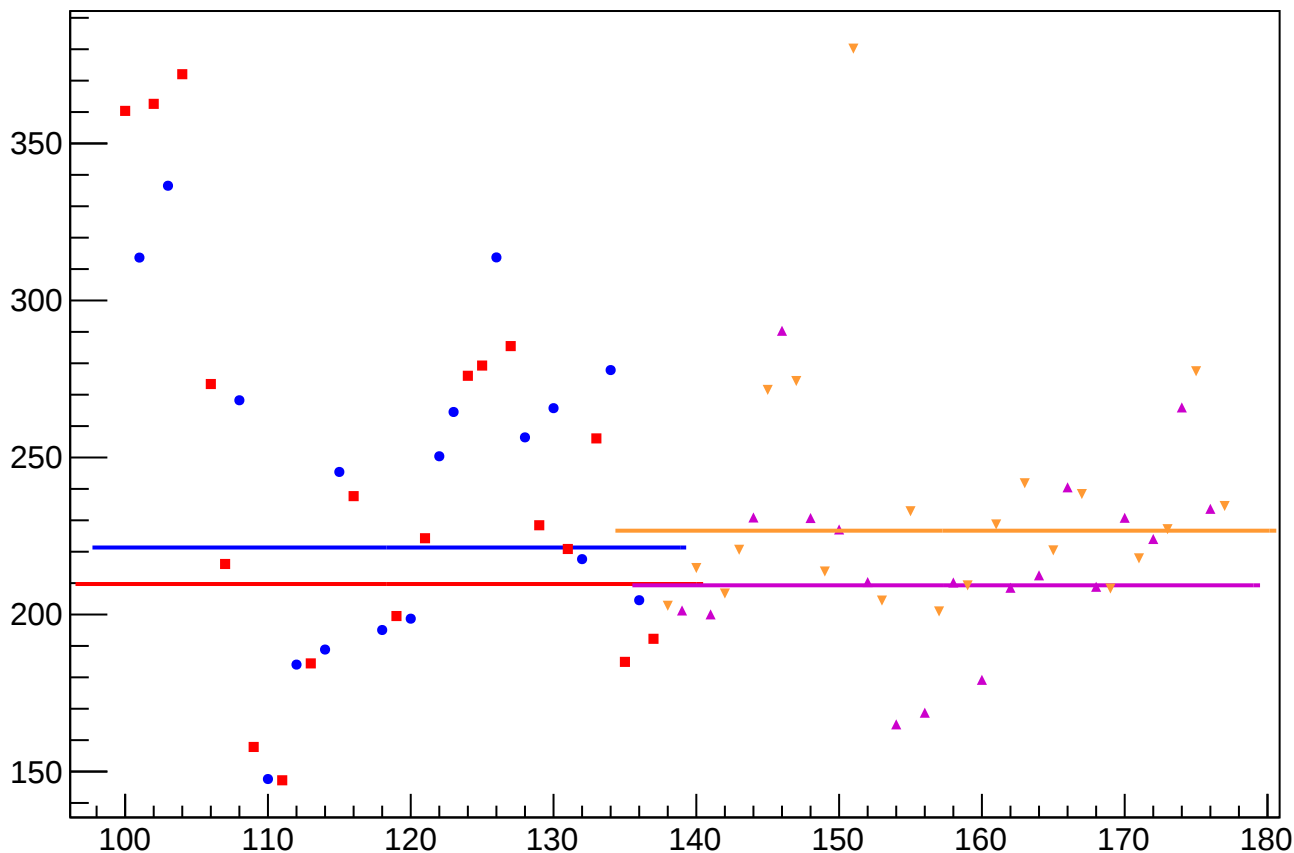
Right: -672.351 ± 60.290 χ^2/NDF : 734.7/35

In: -498.289 ± 47.393 χ^2/NDF : 1972.7/35

Out: 37.529 ± 47.401 χ^2/NDF : 1839.2/39

All: -230.427 ± 33.515 χ^2/NDF : 3875.8/75

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 ± 0.063 $\chi^2/\text{NDF}: 645688.1/16$

Left Out: 226.699 ± 0.041 $\chi^2/\text{NDF}: 512754.4/20$

Right Out: 209.717 ± 0.058 $\chi^2/\text{NDF}: 883917.7/18$

Left In: 209.303 ± 0.040 $\chi^2/\text{NDF}: 539871.1/18$

Left: 217.708 ± 0.029 $\chi^2/\text{NDF}: 1145599.1/39$

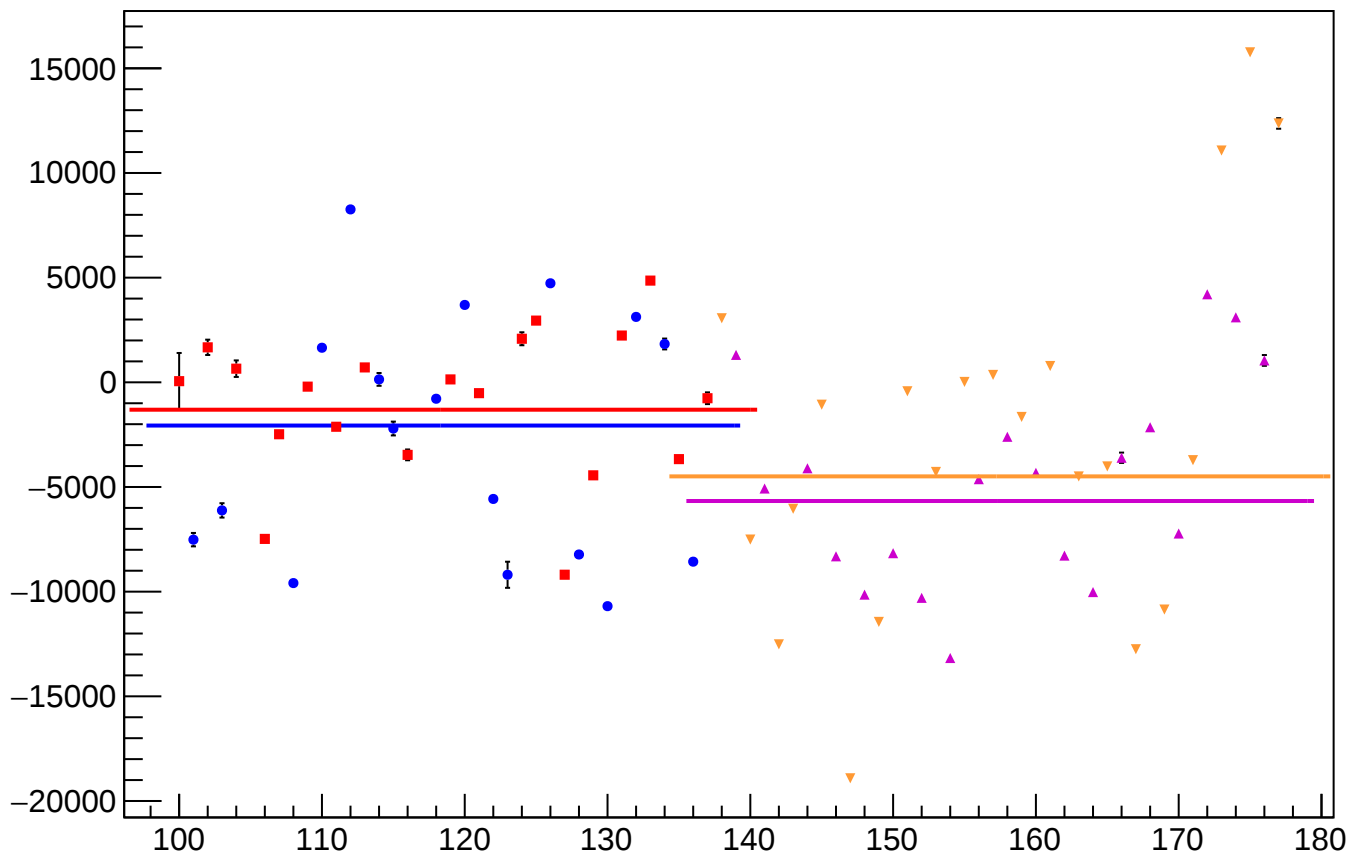
Right: 215.095 ± 0.043 $\chi^2/\text{NDF}: 1548093.3/35$

In: 212.744 ± 0.034 $\chi^2/\text{NDF}: 1211907.4/35$

Out: 221.057 ± 0.034 $\chi^2/\text{NDF}: 1453618.5/39$

All: 216.900 ± 0.024 $\chi^2/\text{NDF}: 2696288.2/75$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 ± 47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -4493.111 ± 34.797 $\chi^2/\text{NDF}: 49444.5/20$

Right Out: -1308.512 ± 45.001 $\chi^2/\text{NDF}: 5894.4/18$

Left In: -5669.772 ± 36.091 $\chi^2/\text{NDF}: 14090.4/18$

Left: -5059.972 ± 25.050 $\chi^2/\text{NDF}: 64085.8/39$

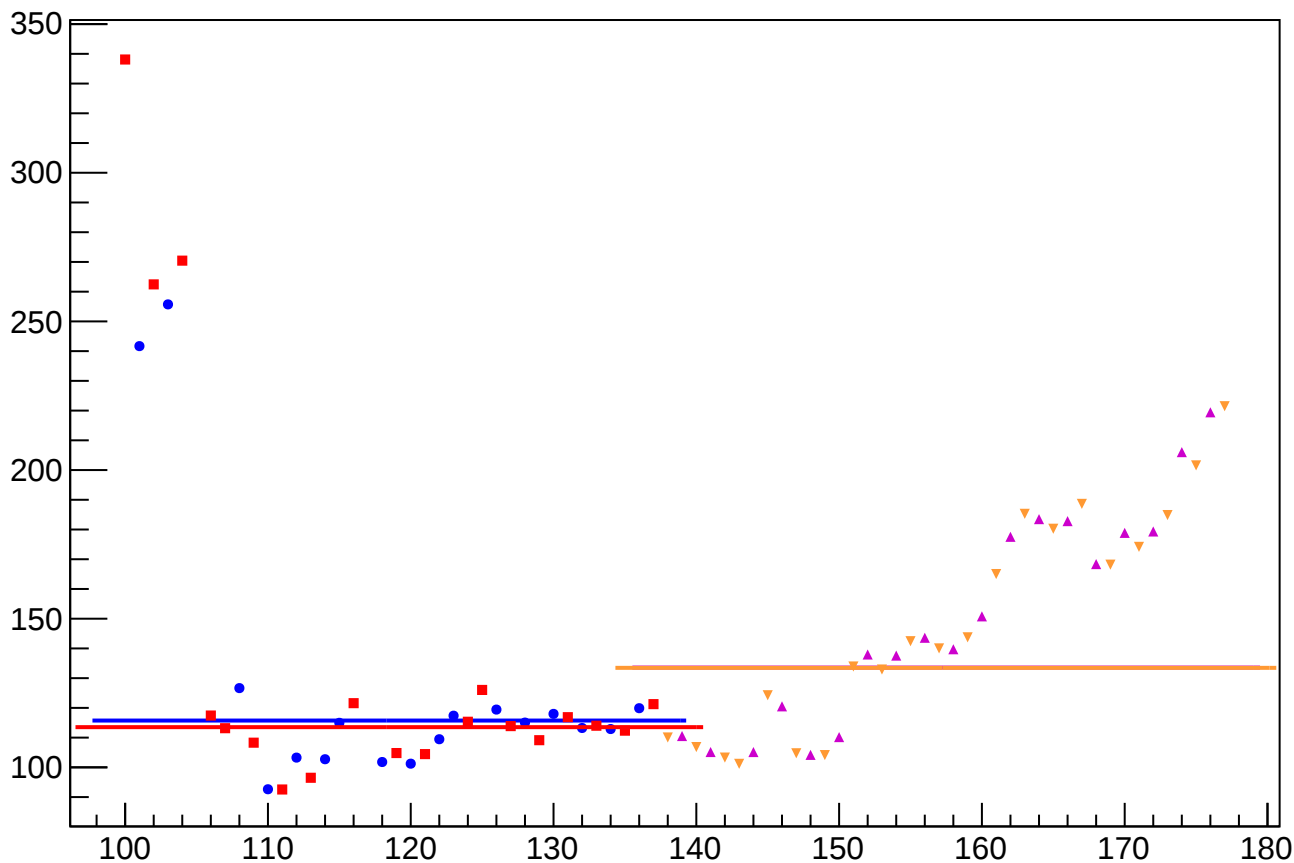
Right: -1667.825 ± 32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4344.175 ± 28.697 $\chi^2/\text{NDF}: 34292.1/35$

Out: -3301.488 ± 27.527 $\chi^2/\text{NDF}: 58473.0/39$

All: -3801.145 ± 19.865 $\chi^2/\text{NDF}: 93452.6/75$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 133.469+/-0.025 χ^2/NDF : 1708605.7/20

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 133.564+/-0.026 χ^2/NDF : 1479483.6/18

Left: 133.515+/-0.018 χ^2/NDF : 3188096.4/39

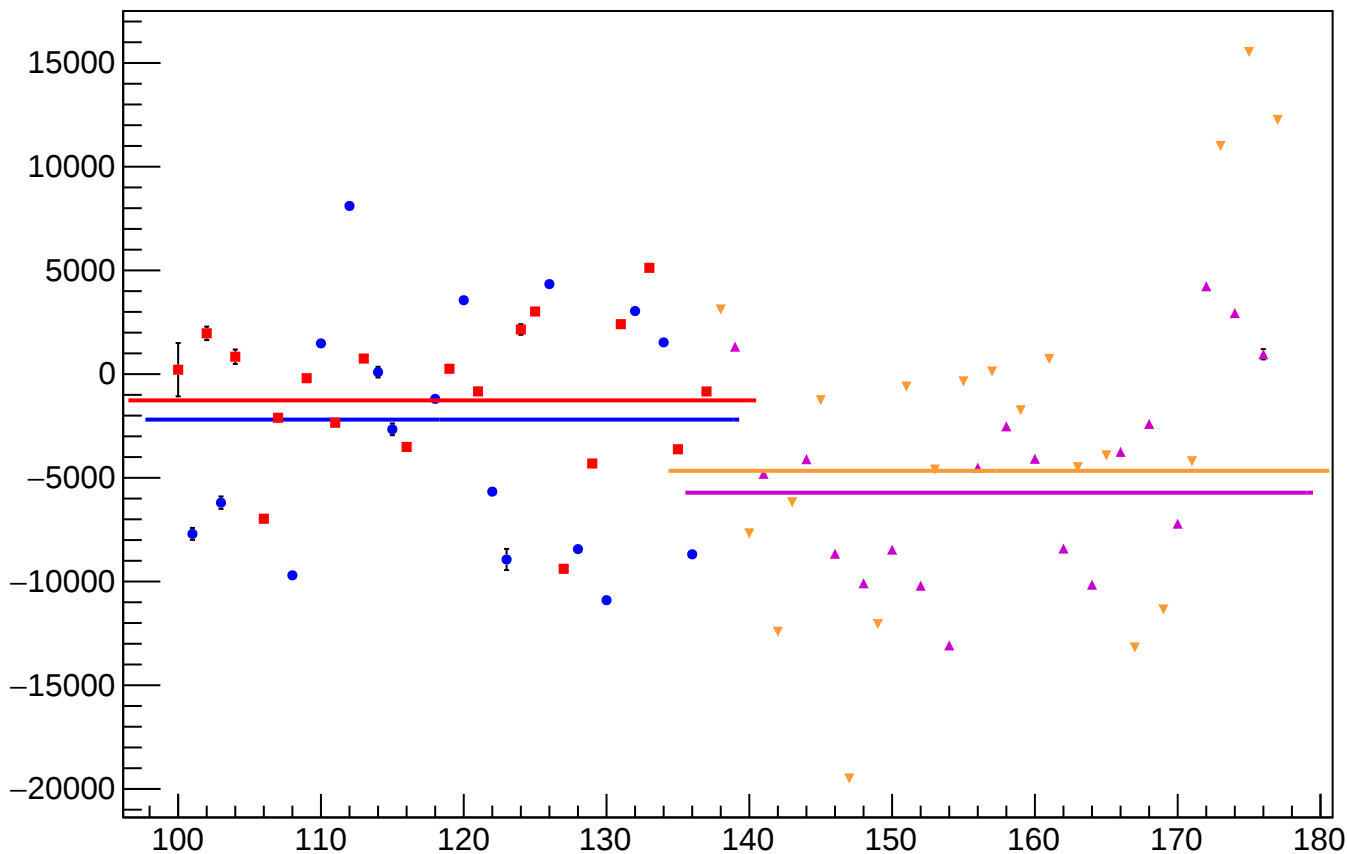
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 127.009+/-0.020 χ^2/NDF : 2402874.2/35

Out: 126.004+/-0.019 χ^2/NDF : 2751240.9/39

All: 126.486+/-0.014 χ^2/NDF : 5155392.5/75

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 $\pm$ 39.944 χ^2/NDF : 22813.5/16

Left Out: -4662.617 $\pm$ 31.581 χ^2/NDF : 58286.5/20

Right Out: -1266.189 $\pm$ 38.048 χ^2/NDF : 8550.5/18

Left In: -5715.646 $\pm$ 33.100 χ^2/NDF : 16890.4/18

Left: -5164.427 $\pm$ 22.849 χ^2/NDF : 75706.8/39

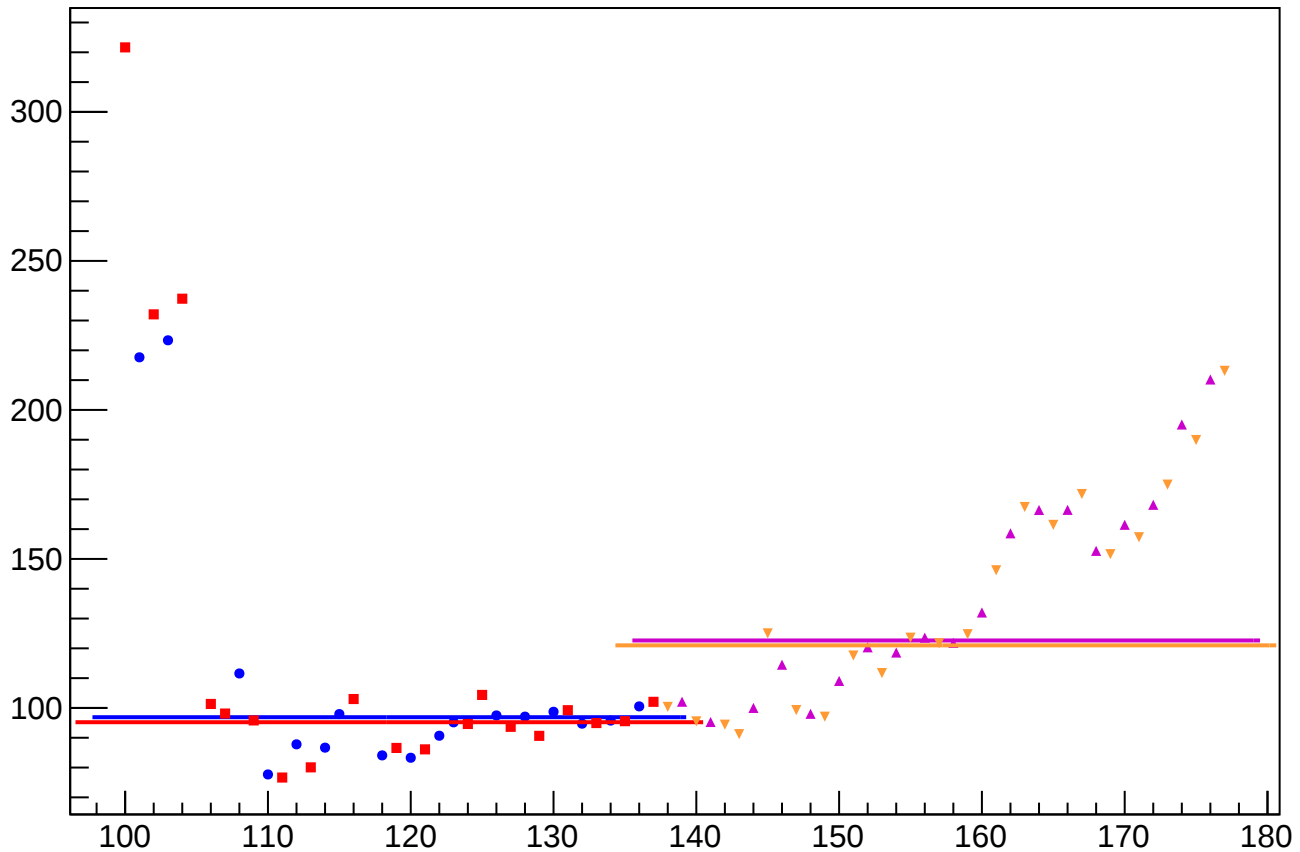
Right: -1706.759 $\pm$ 27.550 χ^2/NDF : 31645.9/35

In: -4281.254 $\pm$ 25.486 χ^2/NDF : 44316.9/35

Out: -3277.146 $\pm$ 24.301 χ^2/NDF : 71555.0/39

All: -3755.302 $\pm$ 17.587 χ^2/NDF : 116684.9/77

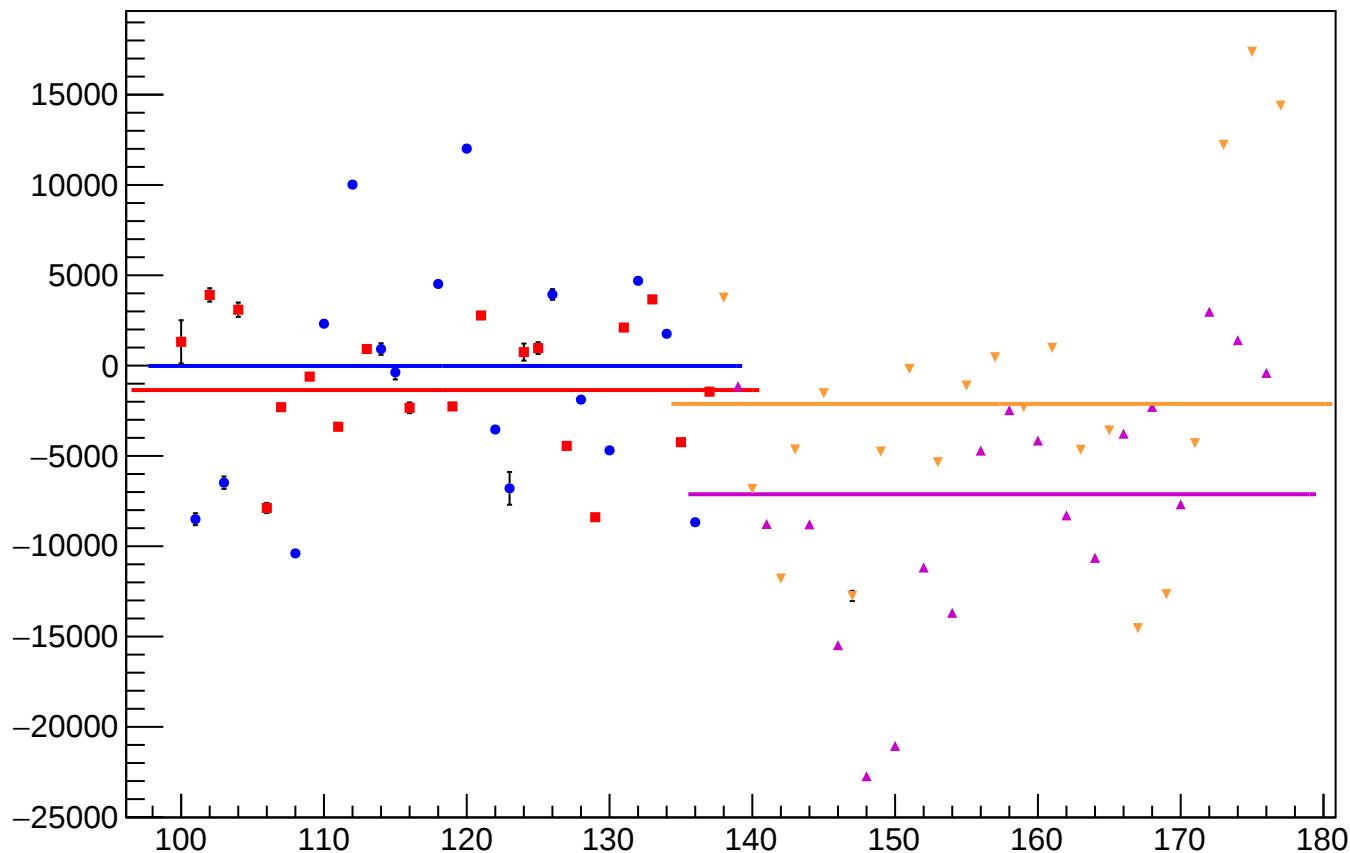
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16
 Left Out: 121.001+/-0.022 χ^2/NDF : 1712887.3/20
 Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18
 Left In: 122.646+/-0.023 χ^2/NDF : 1362712.7/18

Left: 121.785+/-0.016 χ^2/NDF : 3078184.9/39
 Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35
 In: 112.162+/-0.018 χ^2/NDF : 2672797.0/35
 Out: 110.482+/-0.017 χ^2/NDF : 3116658.0/39
 All: 111.282+/-0.012 χ^2/NDF : 5794007.1/75

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -2120.408 ± 42.417 $\chi^2/\text{NDF}: 28414.2/20$

Right Out: -1353.461 ± 52.367 $\chi^2/\text{NDF}: 3837.2/18$

Left In: -7122.088 ± 45.060 $\chi^2/\text{NDF}: 17720.8/18$

Left: -4470.296 ± 30.886 $\chi^2/\text{NDF}: 52667.5/39$

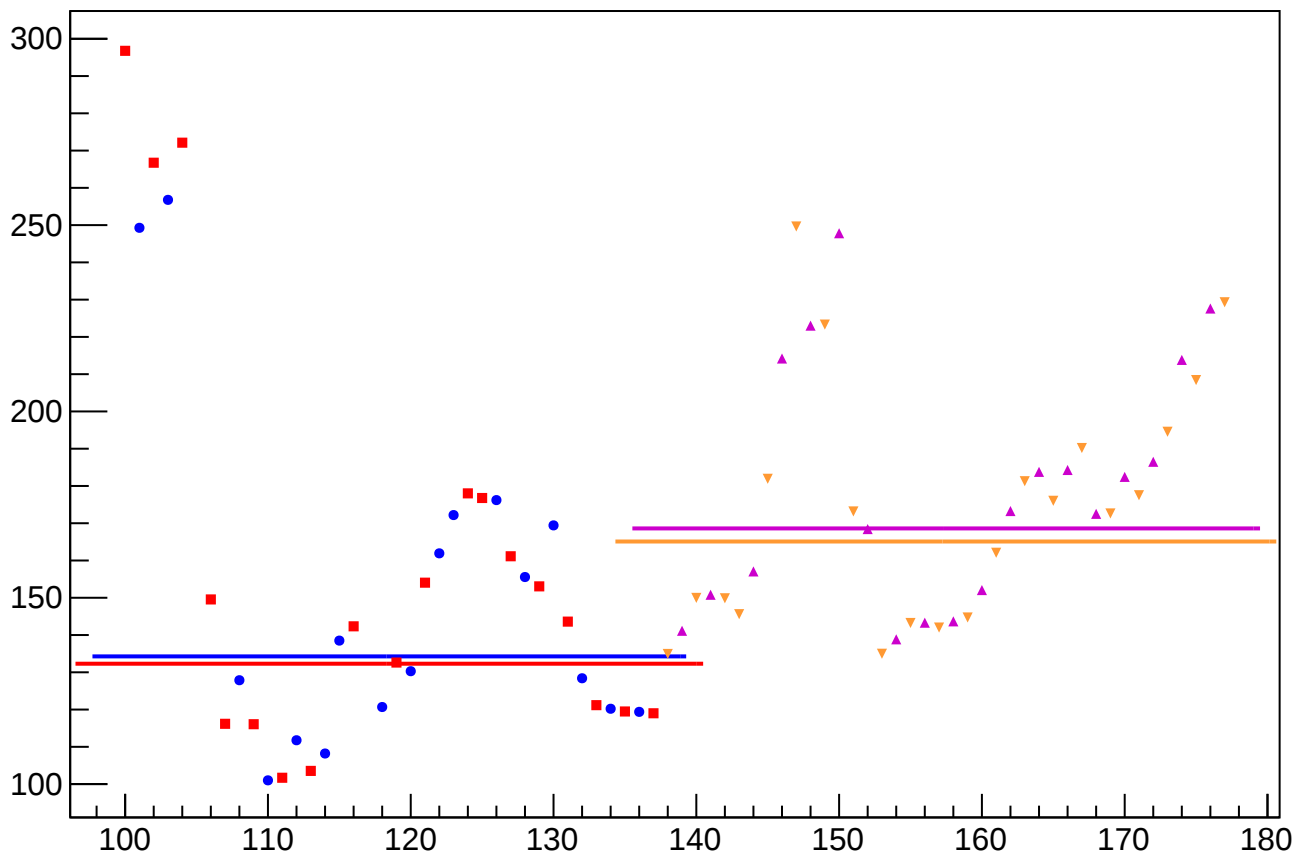
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4247.454 ± 34.765 $\chi^2/\text{NDF}: 44137.0/35$

Out: -1816.562 ± 32.961 $\chi^2/\text{NDF}: 32381.0/39$

All: -2967.316 ± 23.919 $\chi^2/\text{NDF}: 79092.8/75$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 165.096 $\pm$ 0.030 χ^2 /NDF: 891875.0/20

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 168.608 $\pm$ 0.032 χ^2 /NDF: 817801.2/18

Left: 166.746 $\pm$ 0.022 χ^2 /NDF: 1716116.3/39

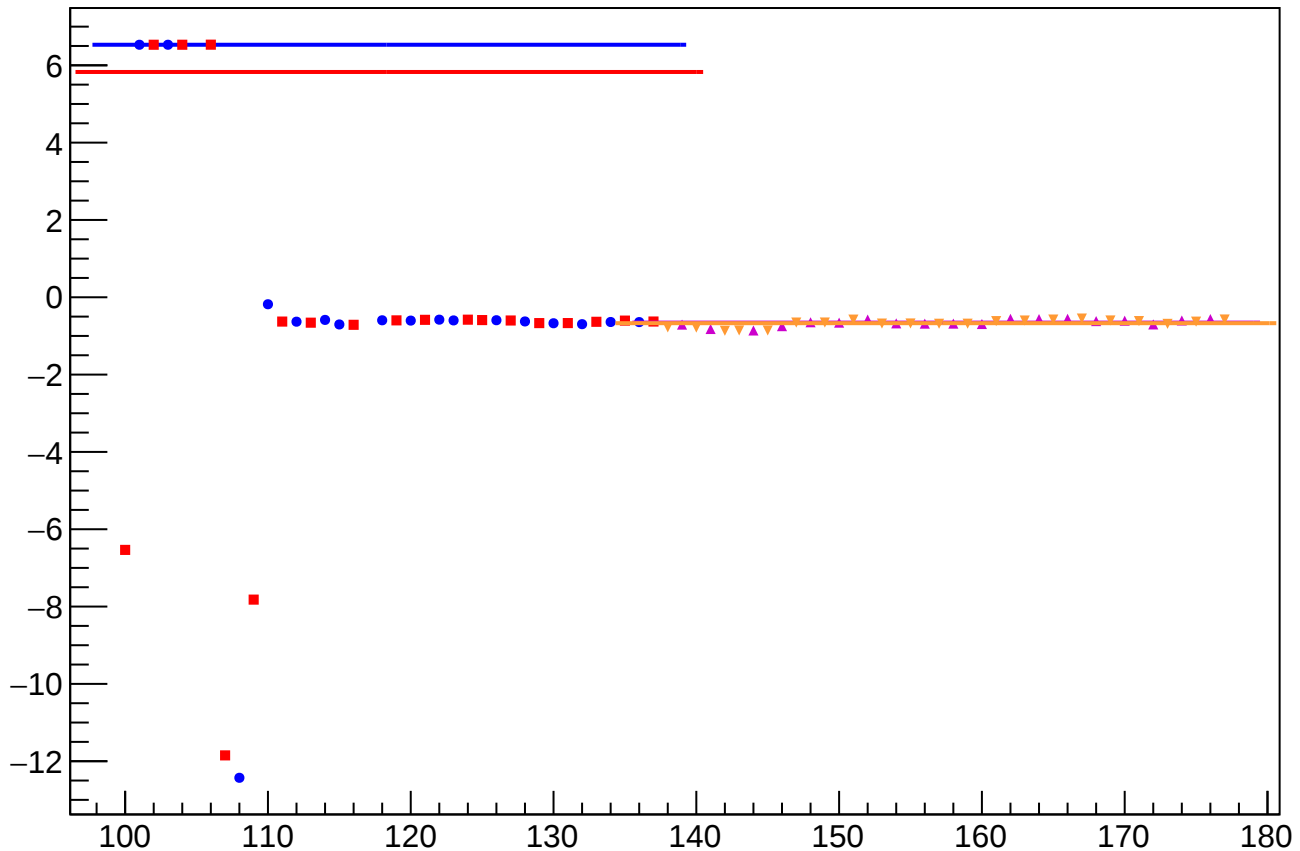
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 154.708 $\pm$ 0.025 χ^2 /NDF: 2076625.5/35

Out: 152.104 $\pm$ 0.023 χ^2 /NDF: 2235385.7/39

All: 153.337 $\pm$ 0.017 χ^2 /NDF: 4317921.8/75

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532 $\pm$ 0.000 χ^2 /NDF: 127906780672.7/16

Left Out: -0.670 $\pm$ 0.000 χ^2 /NDF: 139491885.6/20

Right Out: 5.827 $\pm$ 0.000 χ^2 /NDF: 755948646460090.5/18

Left In: -0.655 $\pm$ 0.000 χ^2 /NDF: 111270608.7/18

Left: -0.663 $\pm$ 0.000 χ^2 /NDF: 252341774.9/39

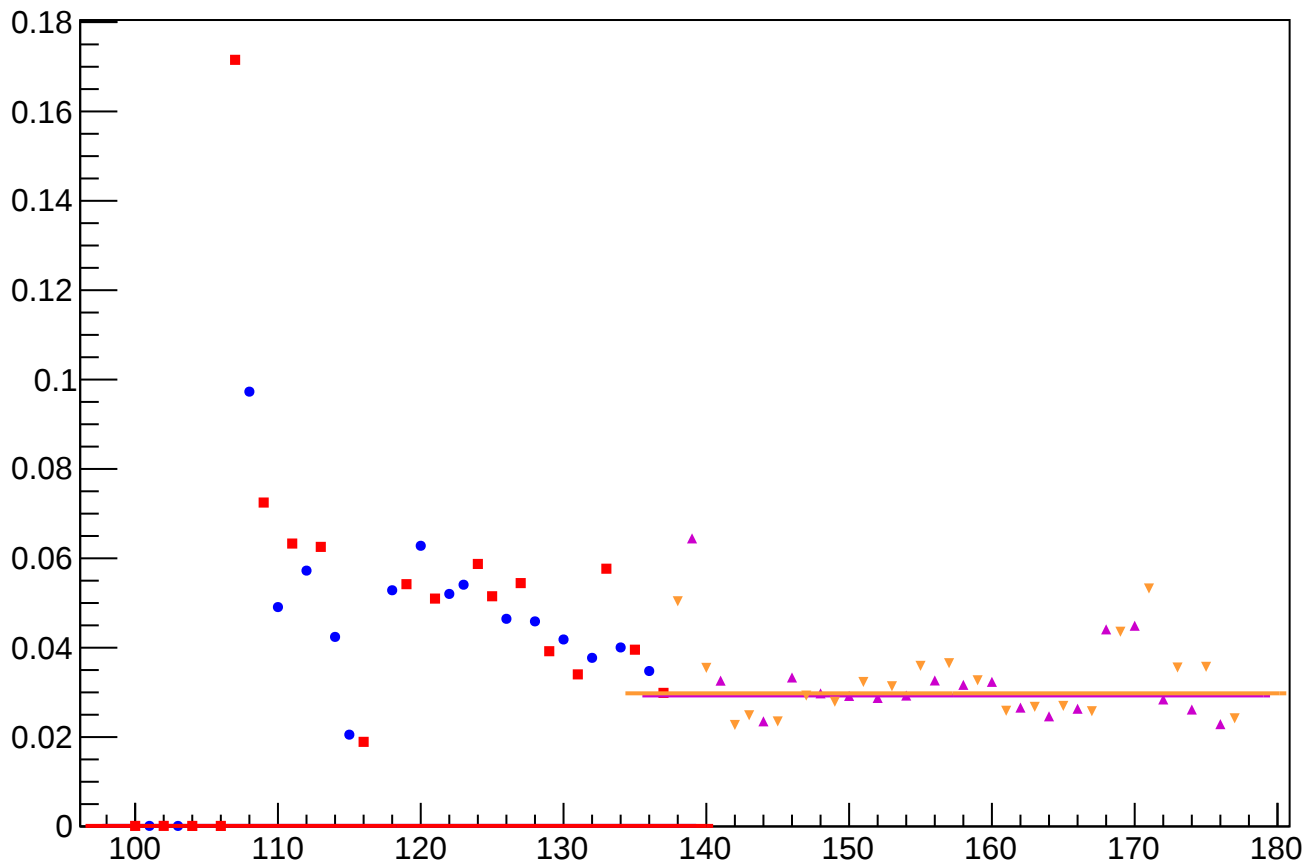
Right: 6.155 $\pm$ 0.000 χ^2 /NDF: 776079822212880.5/39

In: 6.530 $\pm$ 0.000 χ^2 /NDF: 814839909633.1/35

Out: 5.826 $\pm$ 0.000 χ^2 /NDF: 756534329893419.8/35

All: 6.154 $\pm$ 0.000 χ^2 /NDF: 77734277357579.0/78

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 : 1138239.7/20

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.029+/-0.000 χ^2/NDF : 1015505.5/18

Left: 0.030+/-0.000 χ^2/NDF : 2156770.3/39

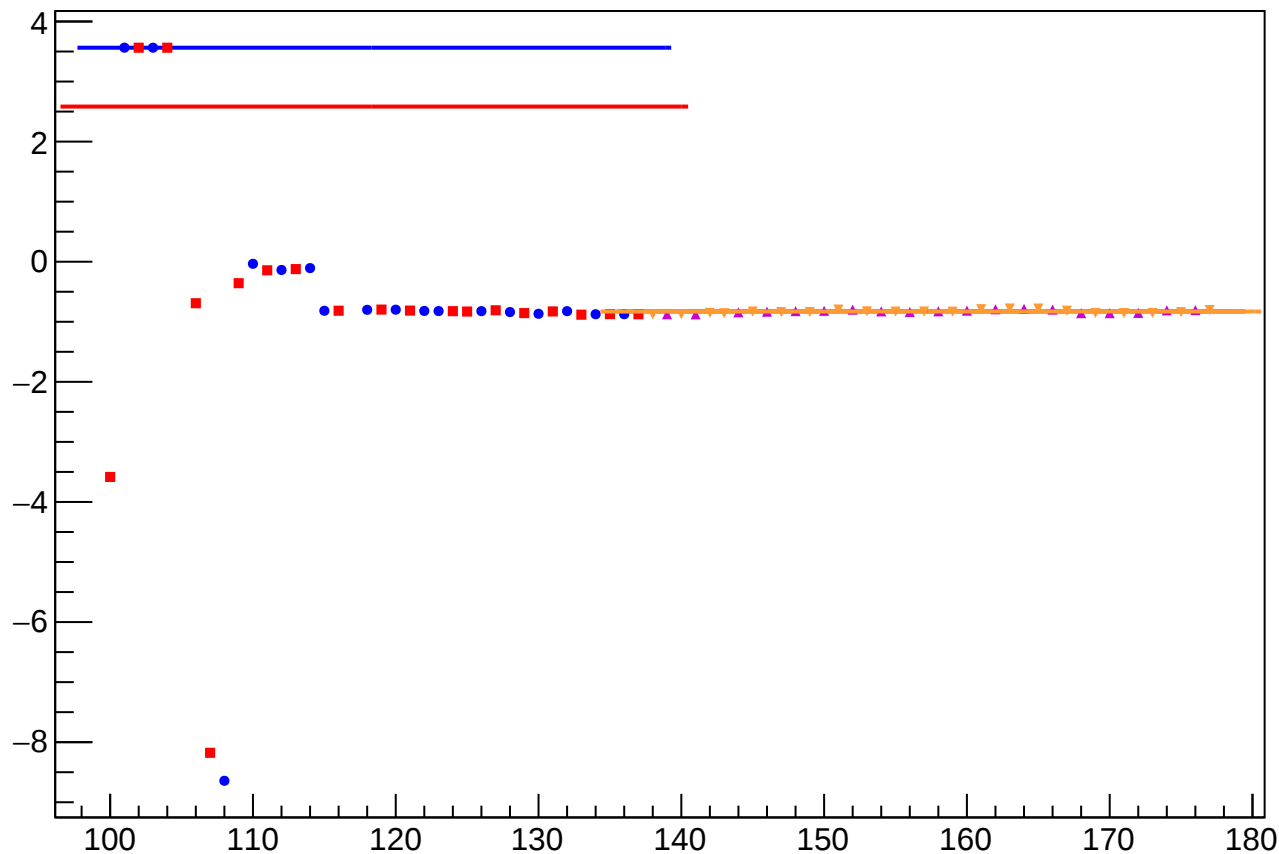
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 32709531.1/35

Out: 0.000+/-0.000 χ^2/NDF : 34923287.0/39

All: 0.000+/-0.000 χ^2/NDF : 67633196.6/75

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 : 153421661.0/20

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.828+/-0.000 χ^2/NDF : 130853959.0/18

Left: -0.828+/-0.000 χ^2/NDF : 284435617.5/39

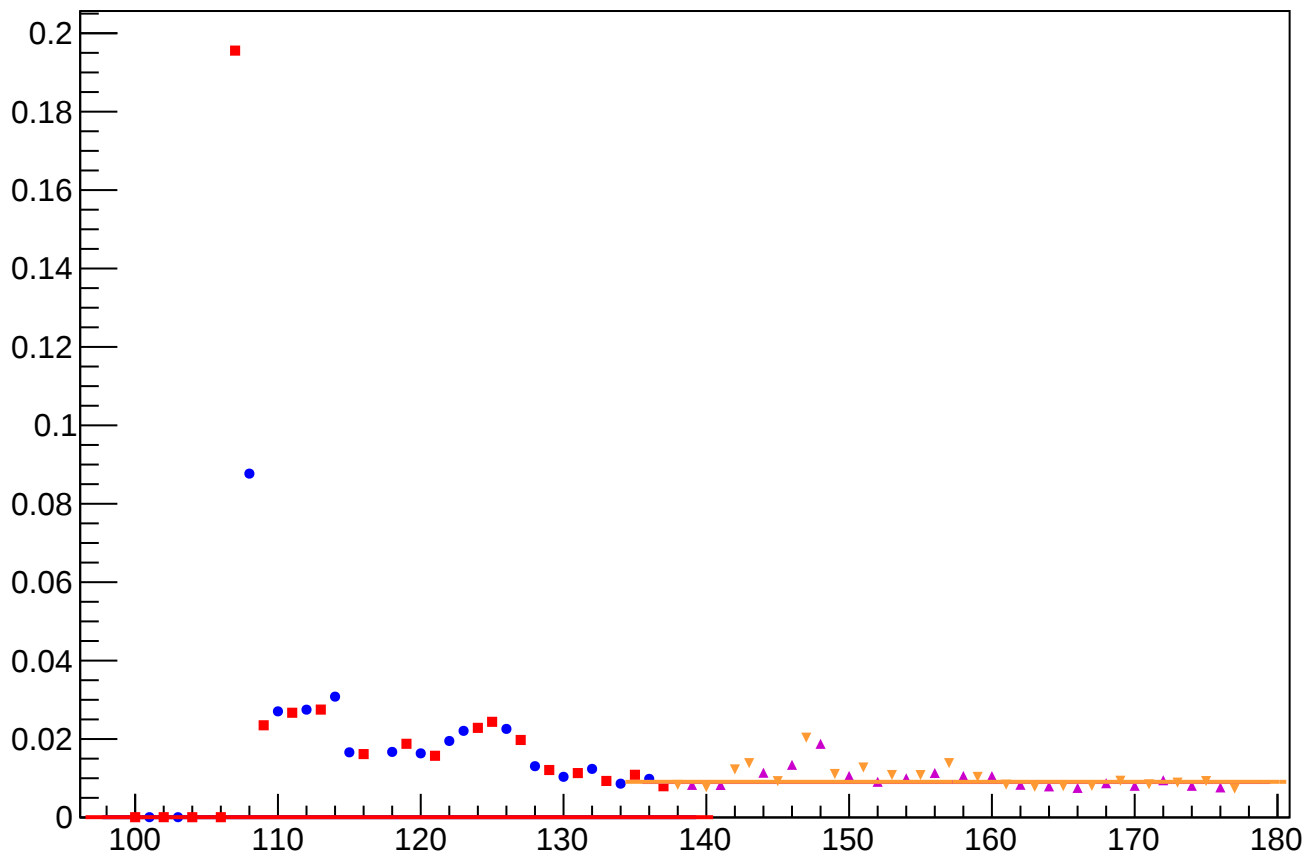
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 3339886833799.9/35

Out: 2.582+/-0.000 χ^2/NDF : 1255331236222755.8

All: 3.038+/-0.000 χ^2/NDF : 13868246994651

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 :1172518.5/20

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.009+/-0.000 χ^2/NDF :868193.1/18

Left: 0.009+/-0.000 χ^2/NDF : 2041203.3/39

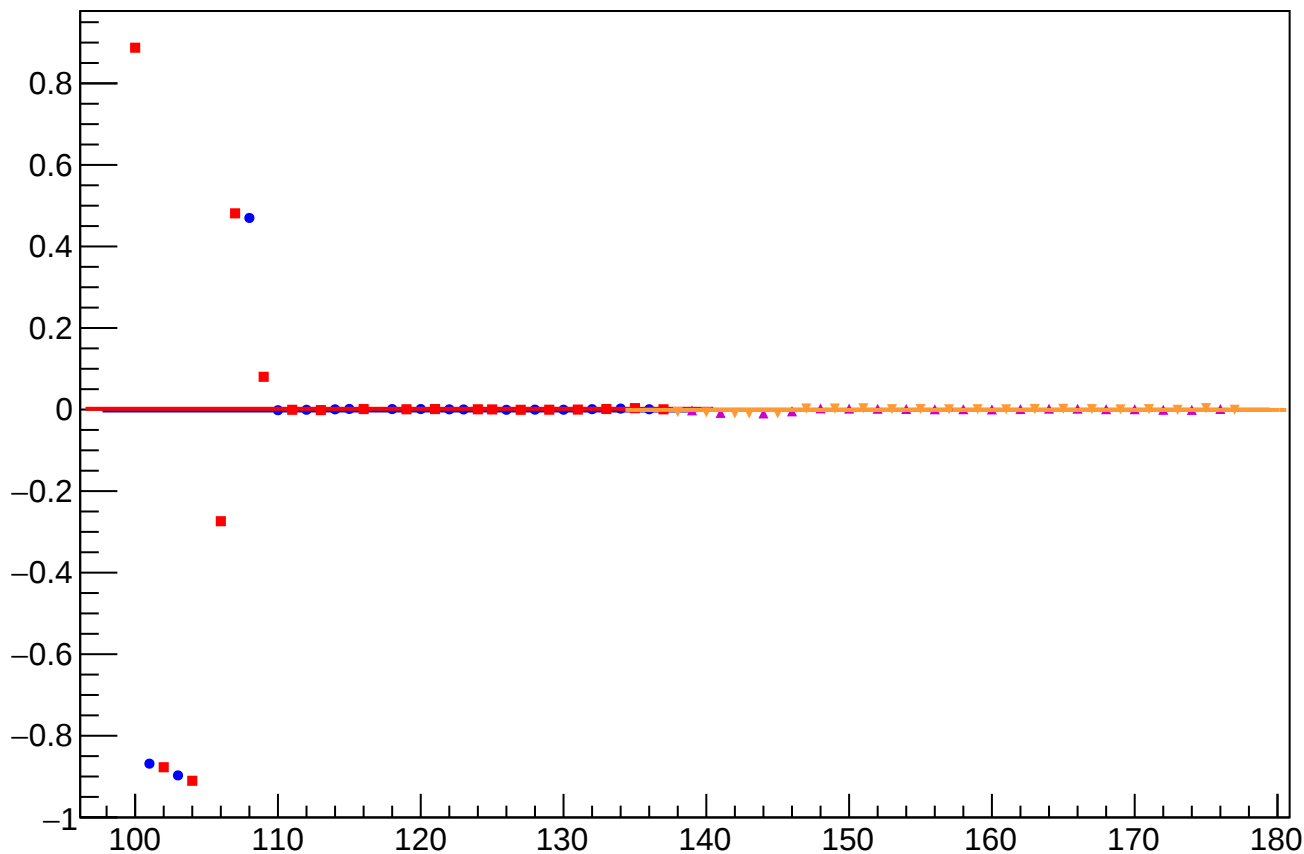
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :34496763.9/35

Out: 0.000+/-0.000 χ^2/NDF :36577245.2/39

All: 0.000+/-0.000 χ^2/NDF : 71074523.9/75

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 : 101818719.6/20

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 68786589.5/18

Left: -0.001+/-0.000 χ^2/NDF : 171474776.4/39

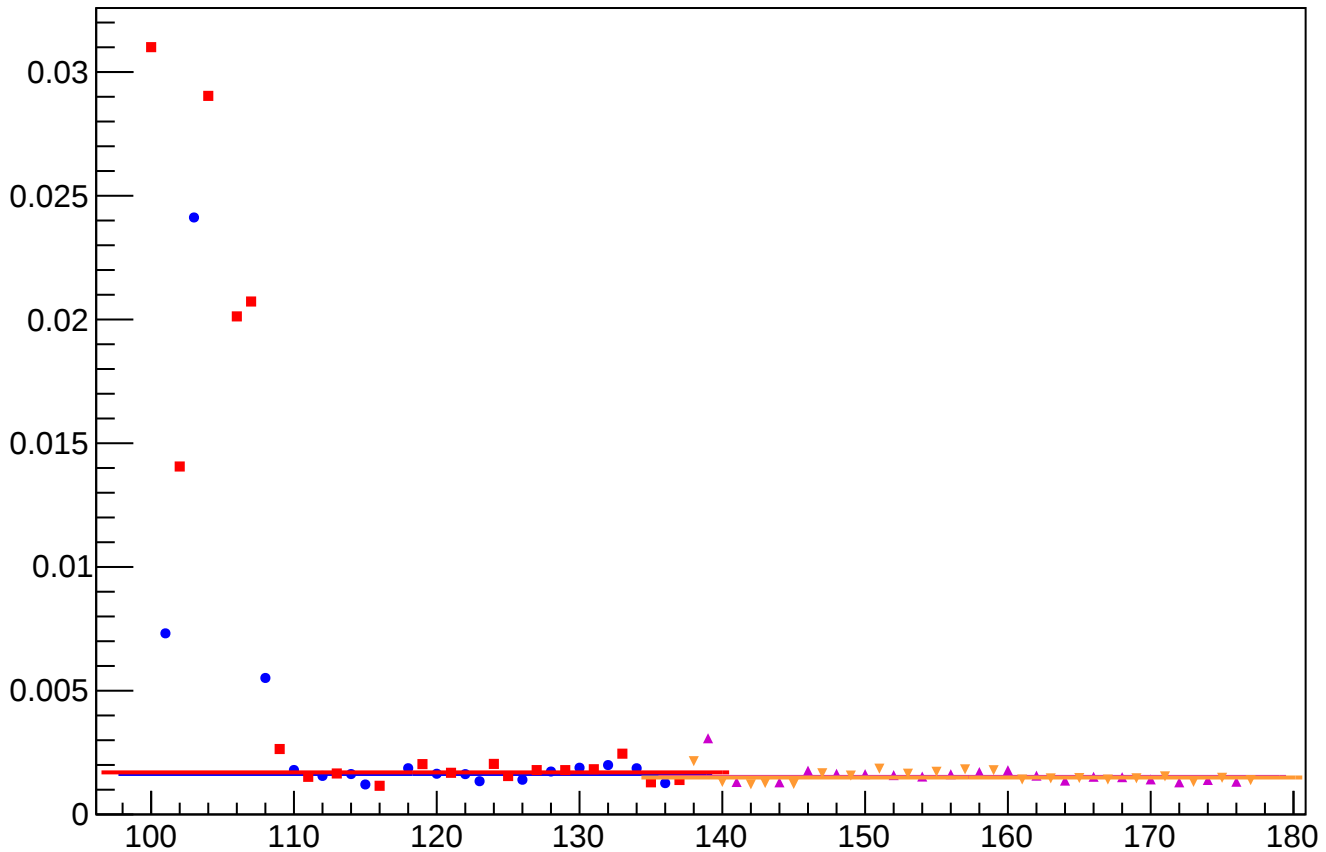
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9868479003.6/35

Out: -0.000+/-0.000 χ^2/NDF : 3153152746.4/39

All: -0.001+/-0.000 χ^2/NDF : 13022513513.5/78

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 ± 0.000 χ^2/NDF : 1919127.9/16

Left Out: 0.001 ± 0.000 χ^2/NDF : 464616.9/20

Right Out: 0.002 ± 0.000 χ^2/NDF : 3025332.9/18

Left In: 0.002 ± 0.000 χ^2/NDF : 594962.3/18

Left: 0.002 ± 0.000 χ^2/NDF : 1062534.7/39

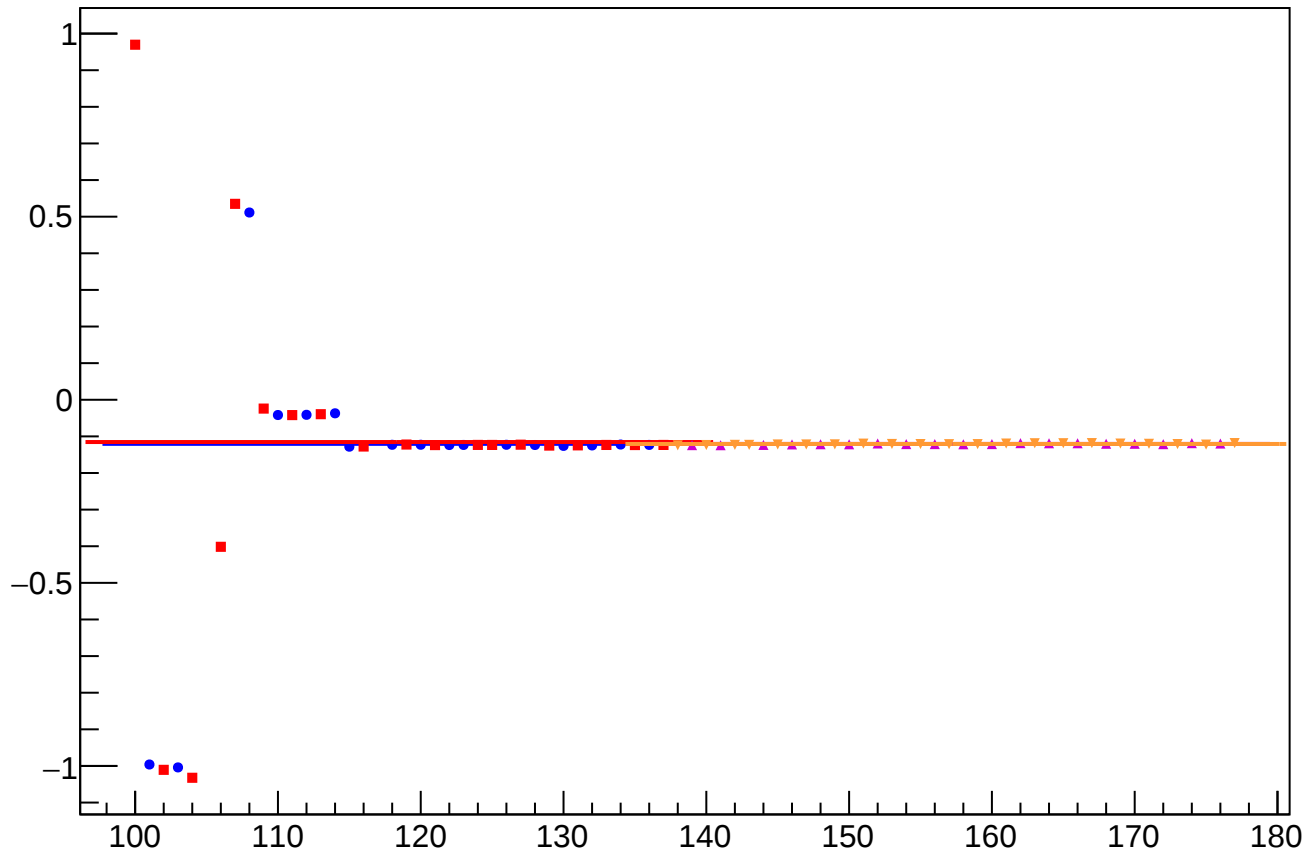
Right: 0.002 ± 0.000 χ^2/NDF : 4950980.4/35

In: 0.002 ± 0.000 χ^2/NDF : 2550309.5/35

Out: 0.002 ± 0.000 χ^2/NDF : 3593226.4/39

All: 0.002 ± 0.000 χ^2/NDF : 6144104.5/75

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 : 41836721.3/20

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 33887871.6/18

Left: -0.121+/-0.000 χ^2/NDF : 75812013.1/39

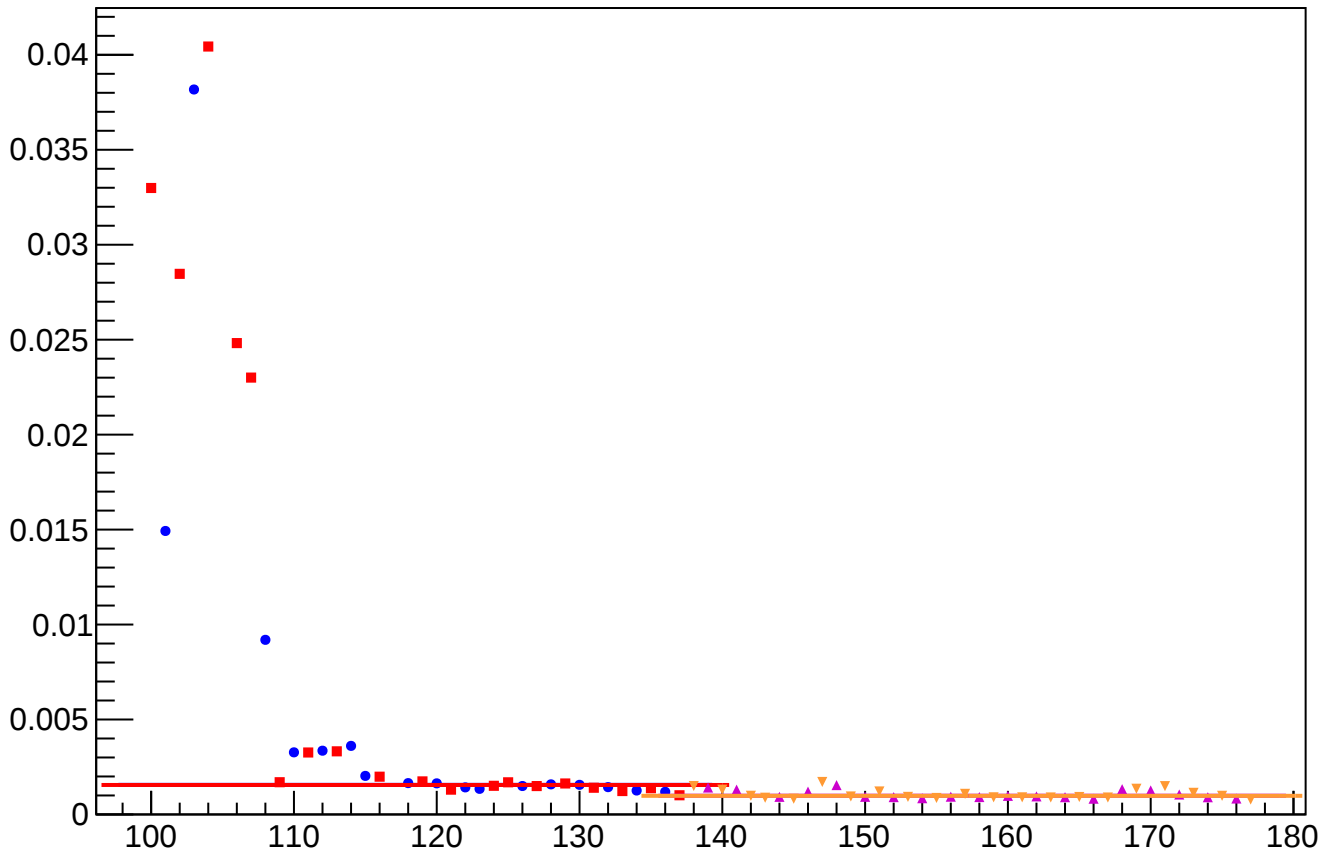
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3966301520.8/35

Out: -0.120+/-0.000 χ^2/NDF : 2545860541.9/39

All: -0.120+/-0.000 χ^2/NDF : 6513824754.2/77

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 : 1138033.4/20

Right Out: 0.002+/-0.000 χ^2/NDF : 3538622.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 798361.8/18

Left: 0.001+/-0.000 χ^2/NDF : 1936818.0/39

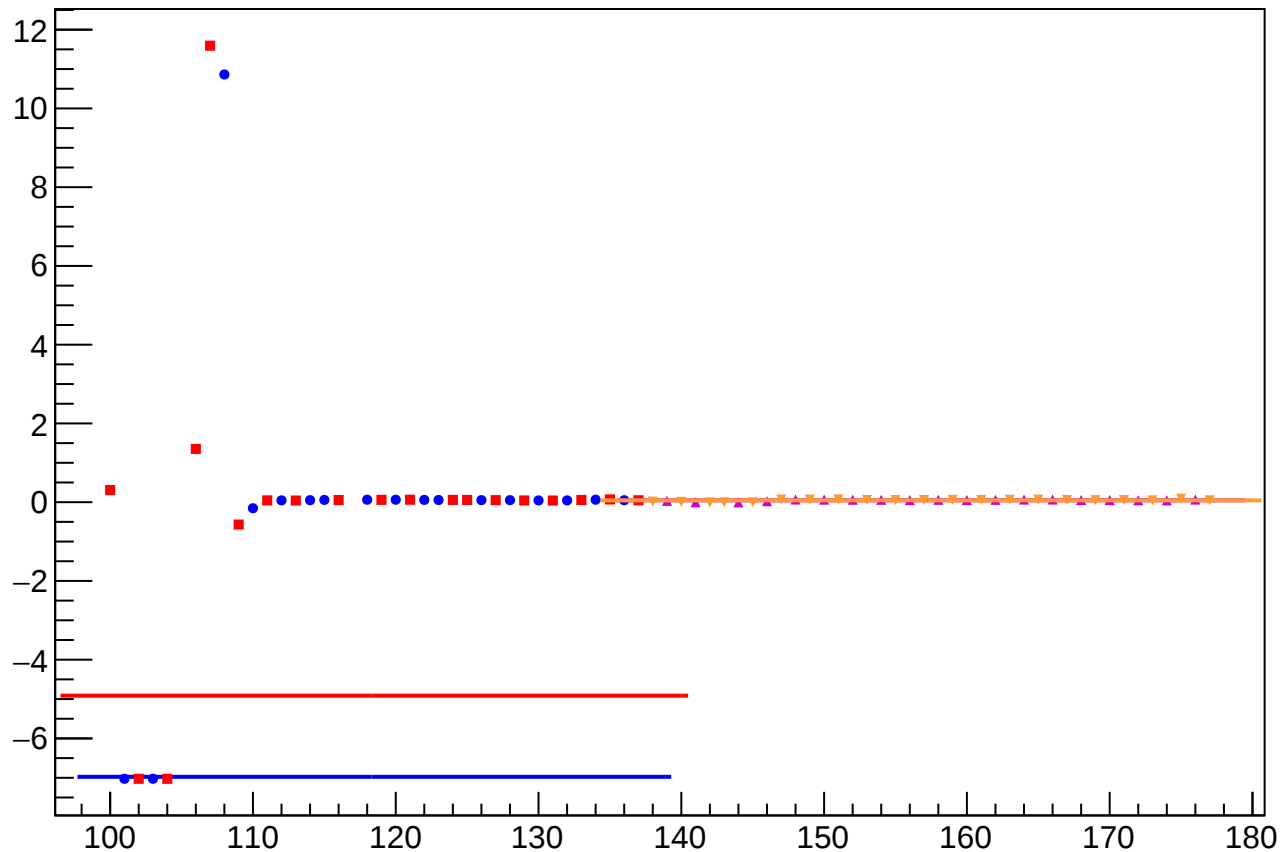
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF : 4792038.3/35

Out: 0.001+/-0.000 χ^2/NDF : 5773924.9/39

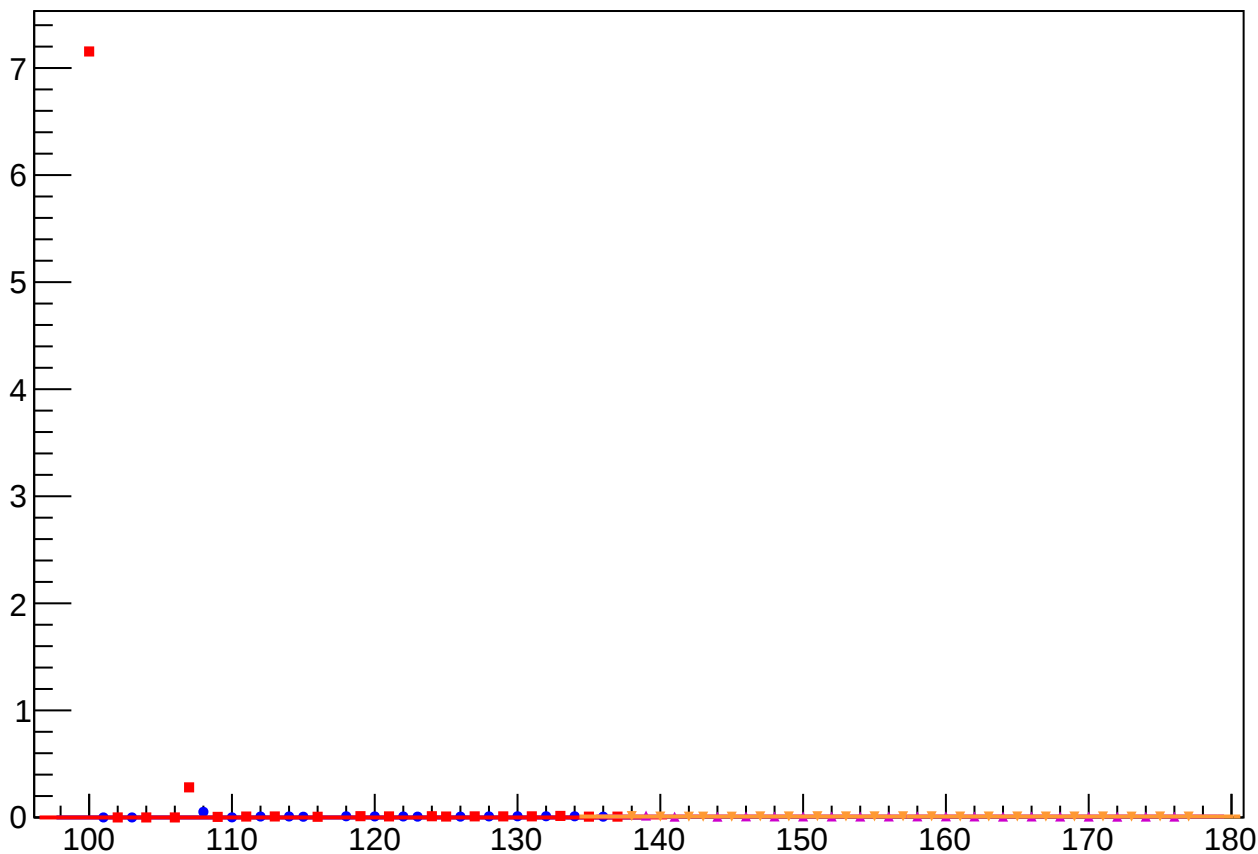
All: 0.001+/-0.000 χ^2/NDF : 10567735.0/75

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$ Left: 0.047 ± 0.000 $\chi^2/\text{NDF}: 191193694.9/39$
 Left Out: 0.046 ± 0.000 $\chi^2/\text{NDF}: 112454524.2/20$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$ In: -6.934 ± 0.000 $\chi^2/\text{NDF}: 15990264105741.5/35$
 Left In: 0.048 ± 0.000 $\chi^2/\text{NDF}: 78143090.8/18$ Out: -4.885 ± 0.000 $\chi^2/\text{NDF}: 369352686419915.5/18$
 All: -5.865 ± 0.000 $\chi^2/\text{NDF}: 4412409700059.4/18$

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 : 462220.1/20

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF : 590297.7/18

Left: 0.009+/-0.000 χ^2/NDF : 1055387.8/39

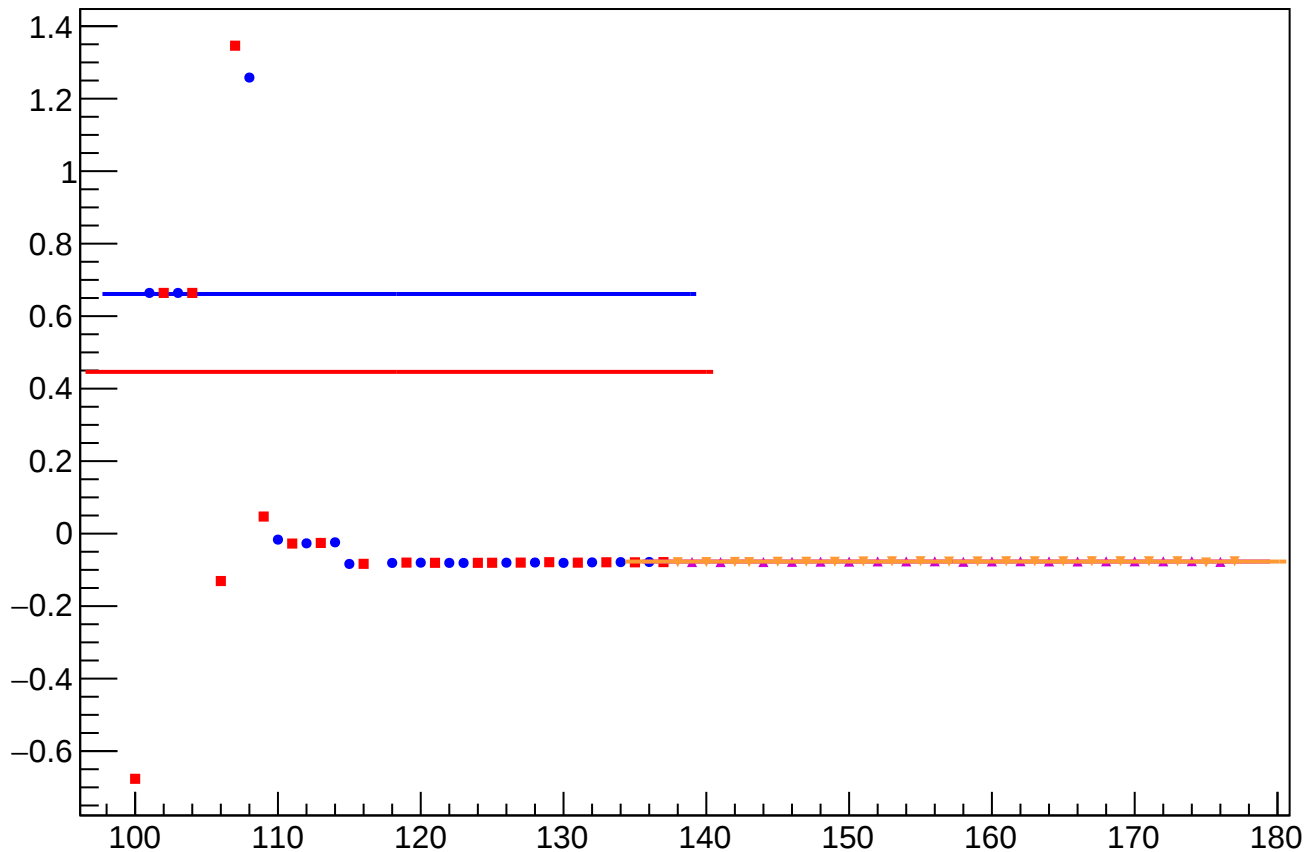
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 31440000.7/35

Out: 0.000+/-0.000 χ^2/NDF : 33499893.8/39

All: 0.000+/-0.000 χ^2/NDF : 64940194.6/75

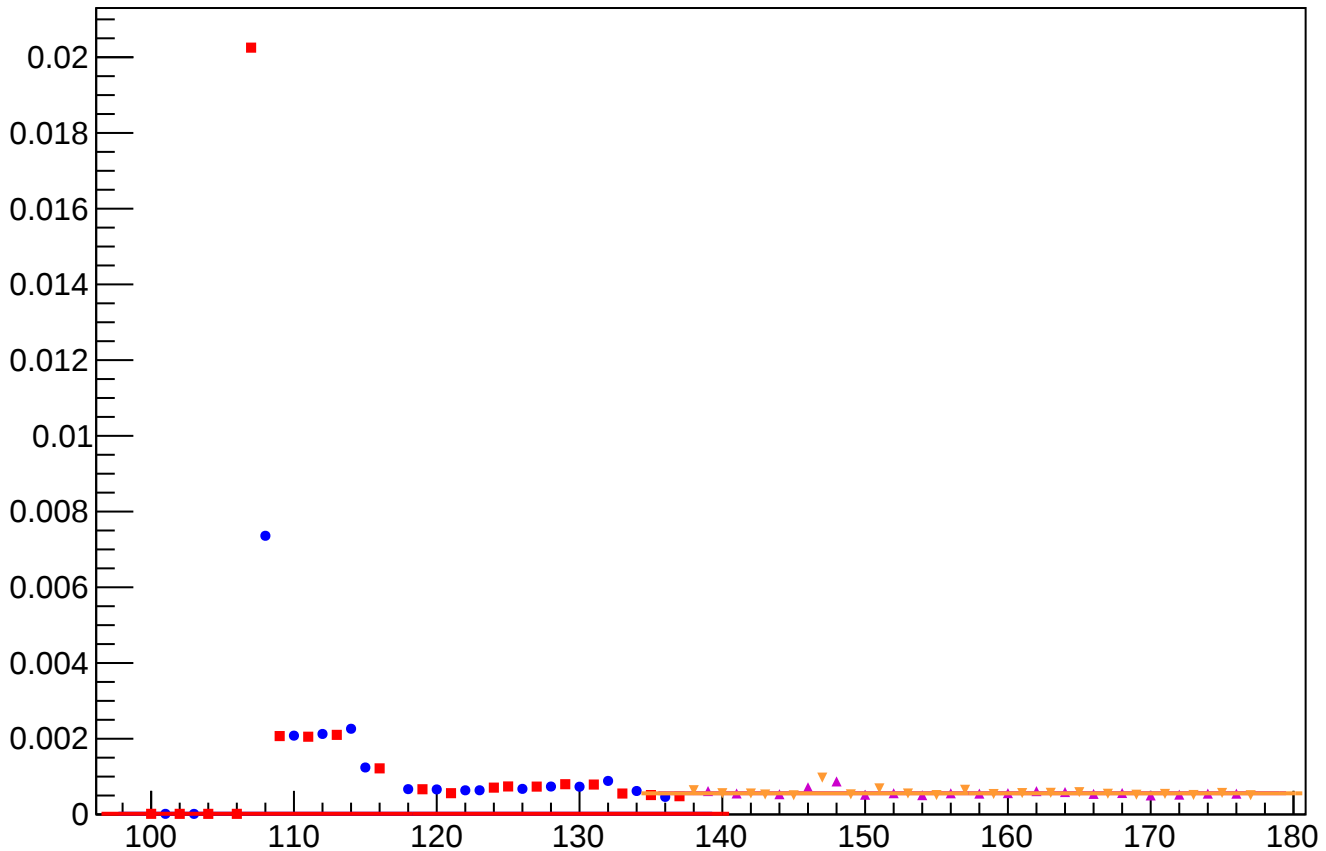
yield_cav4dY_mean vs Slug, Sign Corrected



Left: -0.077 $\pm$ 0.000 χ^2/NDF : 80966293.7/39
 Right: 0.549 $\pm$ 0.000 χ^2/NDF : 474014800057413.9
 In: 0.649 $\pm$ 0.000 χ^2/NDF : 29353109634695.7/35
 Out: 0.438 $\pm$ 0.000 χ^2/NDF : 418395200026608.7/3
 All: 0.538 $\pm$ 0.000 χ^2/NDF : 50958311274052

Right In: 0.661 $\pm$ 0.000 χ^2/NDF : 5678332616622.1/16
 Left Out: -0.077 $\pm$ 0.000 χ^2/NDF : 52409007.1/20
 Right Out: 0.446 $\pm$ 0.000 χ^2/NDF : 405428604683882.5/18
 Left In: -0.077 $\pm$ 0.000 χ^2/NDF : 28513153.0/18

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 : 455210.9/20

Right Out: 0.000+/-0.000

χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000

χ^2/NDF : 353109.1/18

Left: 0.001+/-0.000

χ^2/NDF : 809027.7/39

Right: 0.000+/-0.000

χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000

χ^2/NDF : 36049340.1/35

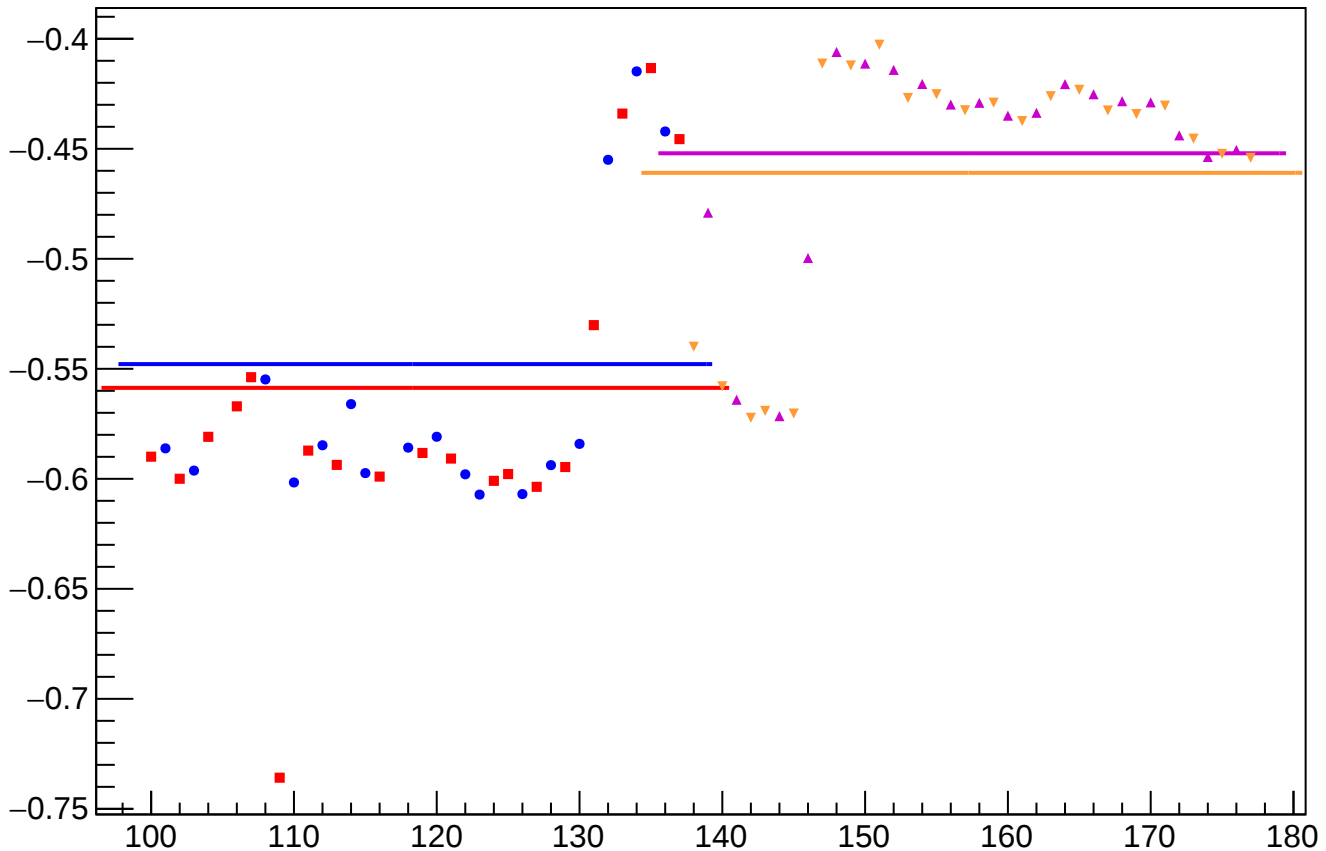
Out: 0.000+/-0.000

χ^2/NDF : 37567720.2/39

All: 0.000+/-0.000

χ^2/NDF : 73617154.3/75

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548 $\pm$ 0.000 χ^2 /NDF: 48579920.8/16

Left Out: -0.461 $\pm$ 0.000 χ^2 /NDF: 106563727.2/20

Right Out: -0.559 $\pm$ 0.000 χ^2 /NDF: 65682293.5/18

Left In: -0.452 $\pm$ 0.000 χ^2 /NDF: 75228540.1/18

Left: -0.457 $\pm$ 0.000 χ^2 /NDF: 183031568.7/39

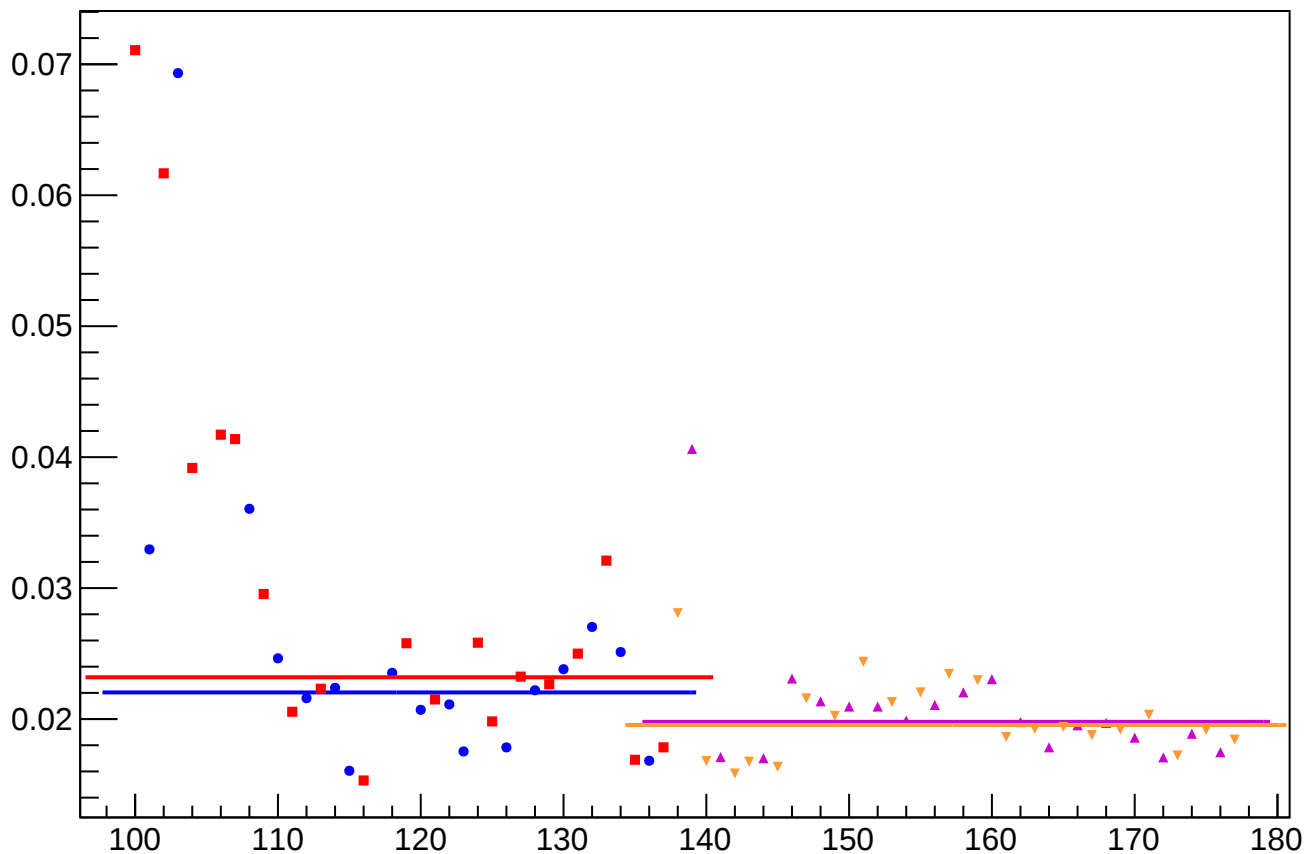
Right: -0.553 $\pm$ 0.000 χ^2 /NDF: 114857155.8/35

In: -0.477 $\pm$ 0.000 χ^2 /NDF: 195277743.0/35

Out: -0.483 $\pm$ 0.000 χ^2 /NDF: 245116151.7/39

All: -0.480 $\pm$ 0.000 χ^2 /NDF: 441281649.6/75

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020+/-0.000 χ^2/NDF : 430816.9/20

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 574212.9/18

Left: 0.020+/-0.000 χ^2/NDF : 1006851.4/39

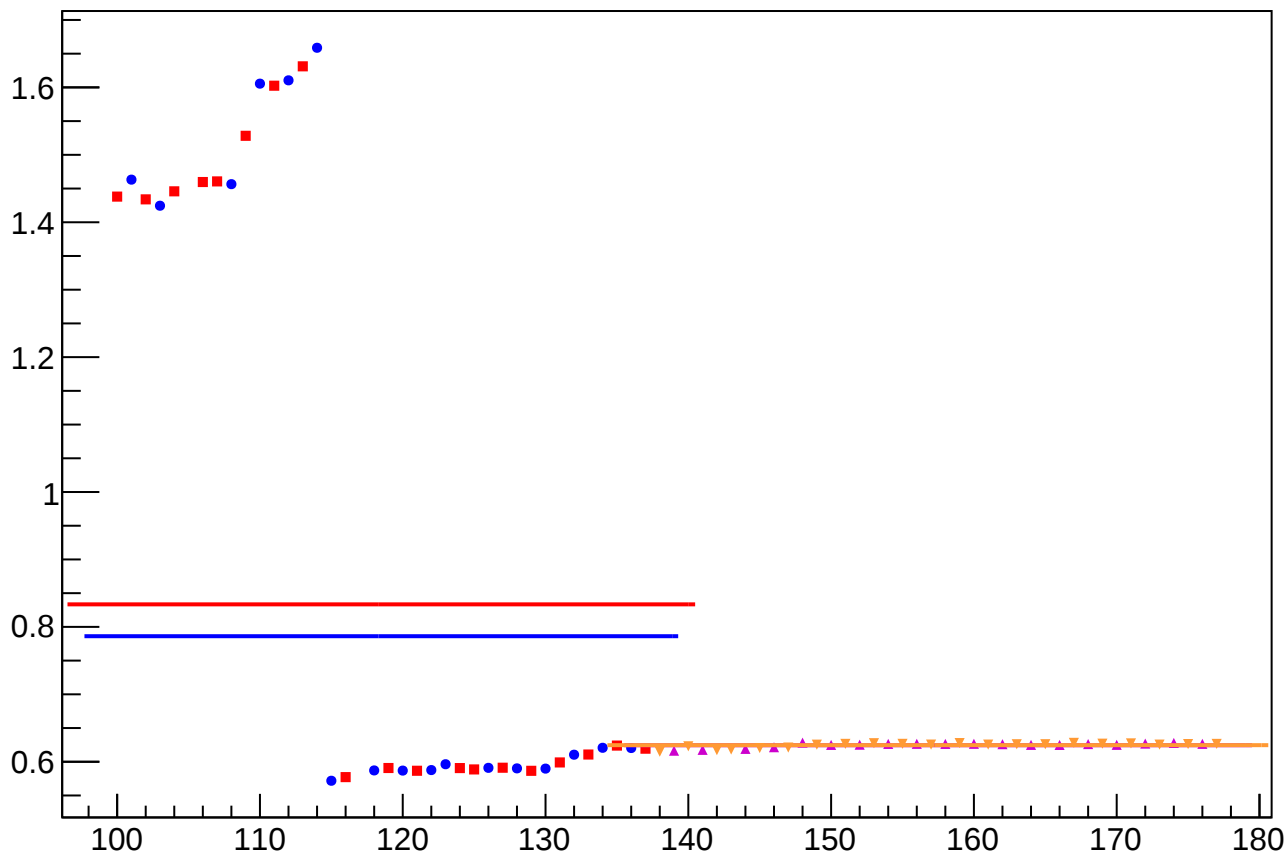
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.020+/-0.000 χ^2/NDF : 1611666.5/35

Out: 0.020+/-0.000 χ^2/NDF : 1790615.3/39

All: 0.020+/-0.000 χ^2/NDF : 3402293.6/75

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786 $\pm$ 0.000 χ^2 /NDF: 3590113316.1/16

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1285030.2/20

Right Out: 0.833 $\pm$ 0.000 χ^2 /NDF: 4156812252.4/18

Left In: 0.624 $\pm$ 0.000 χ^2 /NDF:1058287.8/18

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2343943.1/39

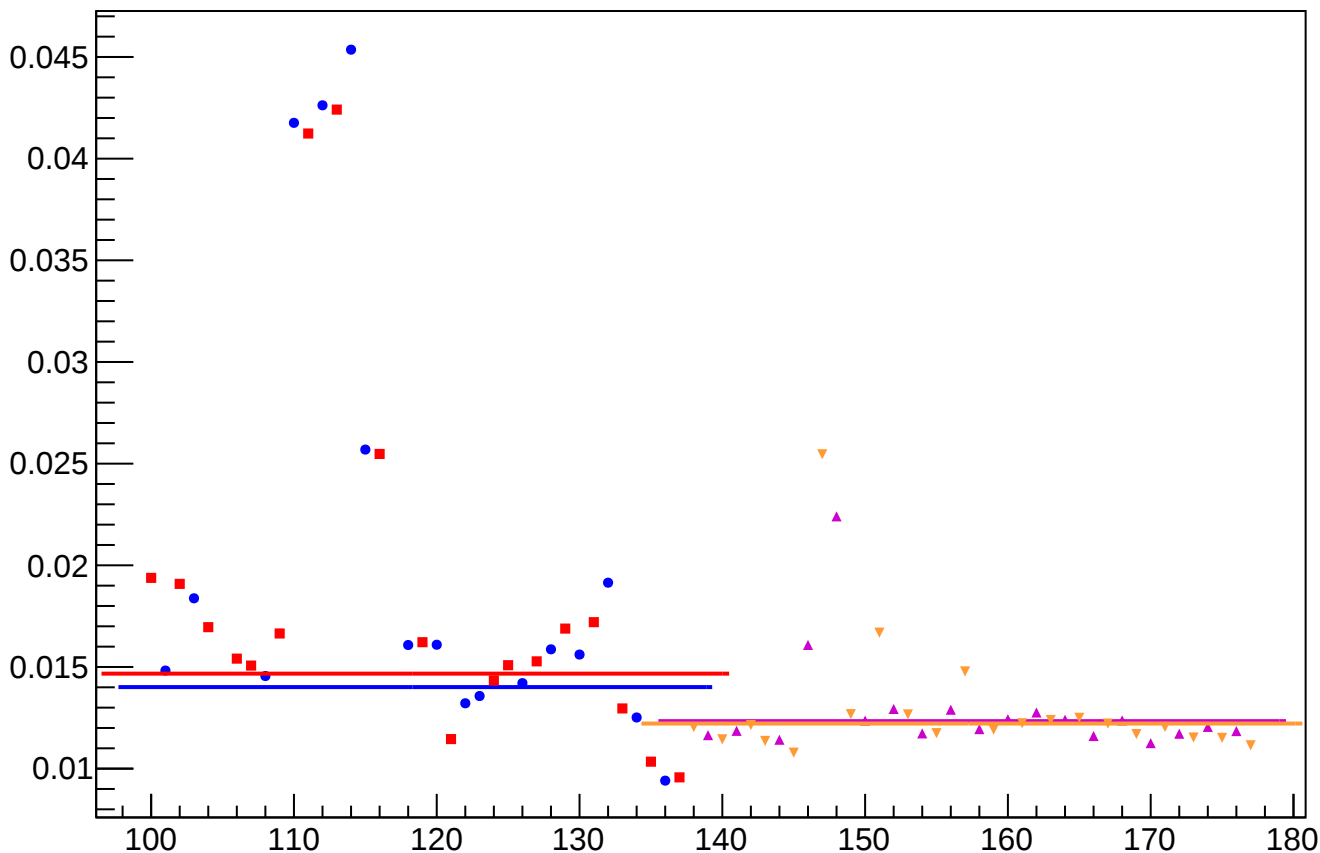
Right: 0.809 $\pm$ 0.000 χ^2 /NDF: 7778629767.1/35

In: 0.663 $\pm$ 0.000 χ^2 /NDF:4167022059.4/35

Out: 0.670 $\pm$ 0.000 χ^2 /NDF:5111881297.7/39

All: 0.667 $\pm$ 0.000 χ^2 /NDF: 9281804160.1/75

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 :627588.7/20

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.012+/-0.000 χ^2/NDF :444059.8/18

Left: 0.012+/-0.000 χ^2/NDF : 1072993.9/39

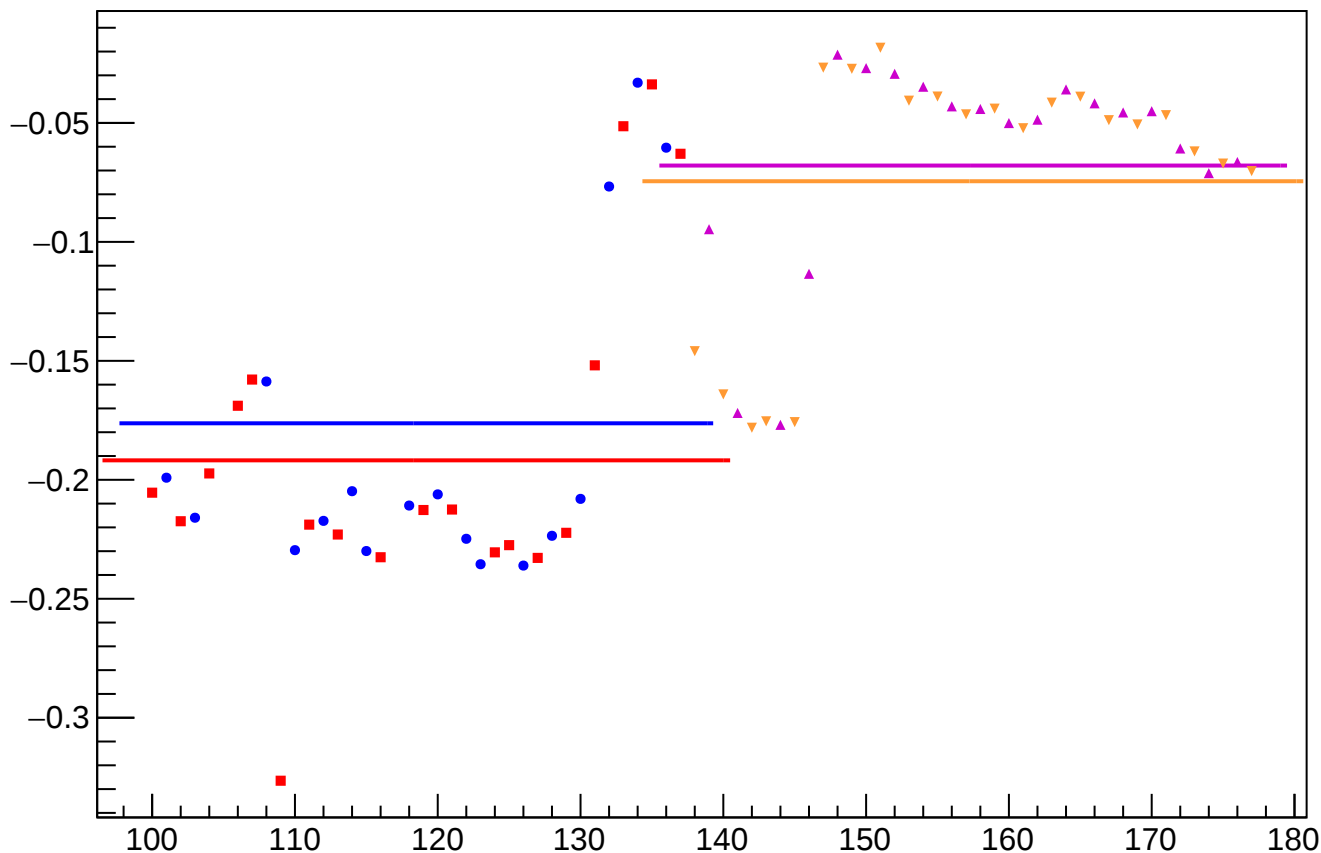
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF :1972448.1/35

Out: 0.013+/-0.000 χ^2/NDF :2154594.3/39

All: 0.013+/-0.000 χ^2/NDF : 4127068.9/75

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.075+/-0.000 χ^2/NDF : 101348701.5/20

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.068+/-0.000 χ^2/NDF : 75605032.8/18

Left: -0.071+/-0.000 χ^2/NDF : 177685107.1/39

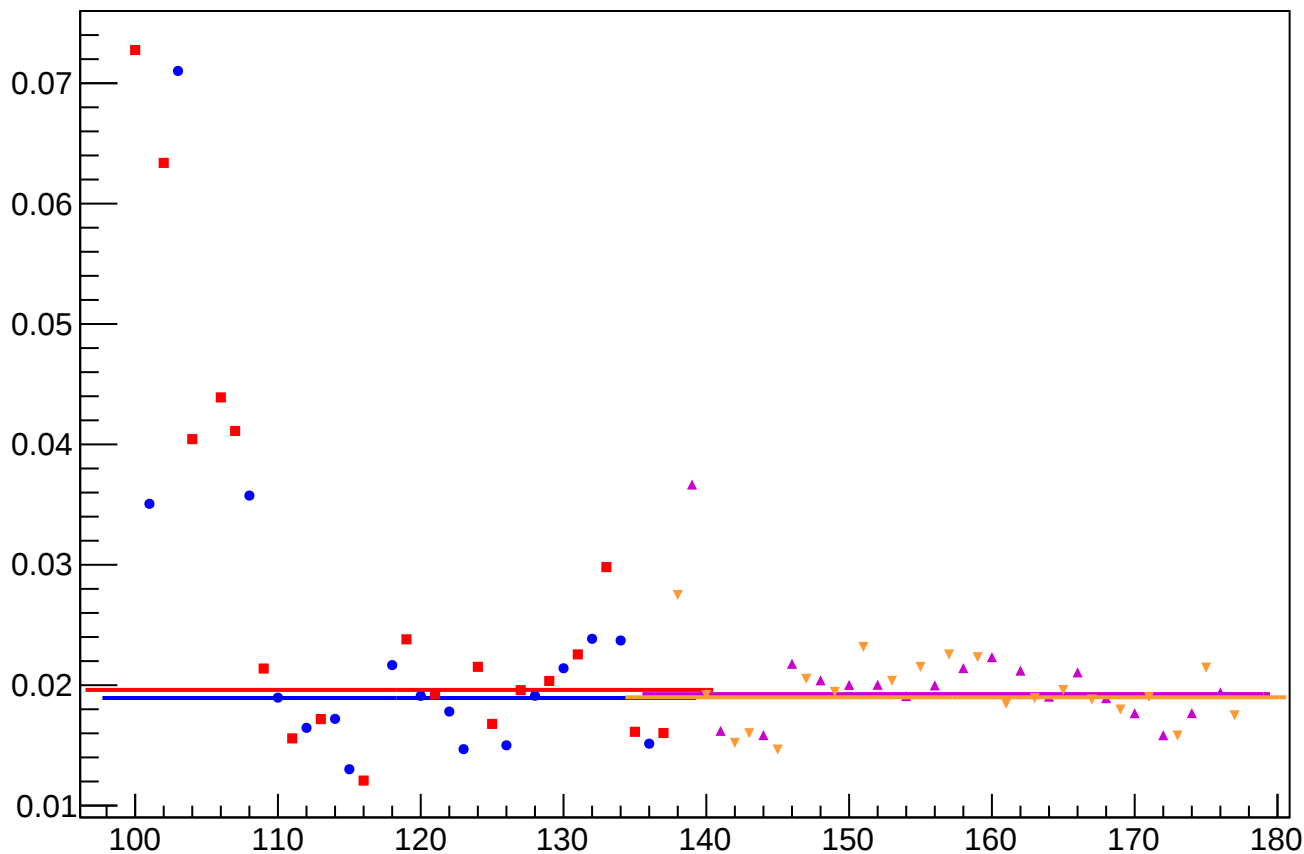
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.101+/-0.000 χ^2/NDF : 259911331.2/35

Out: -0.107+/-0.000 χ^2/NDF : 319798106.9/39

All: -0.104+/-0.000 χ^2/NDF : 580579025.5/75

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 : 505507.4/20

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 560991.3/18

Left: 0.019+/-0.000 χ^2/NDF : 1068869.4/39

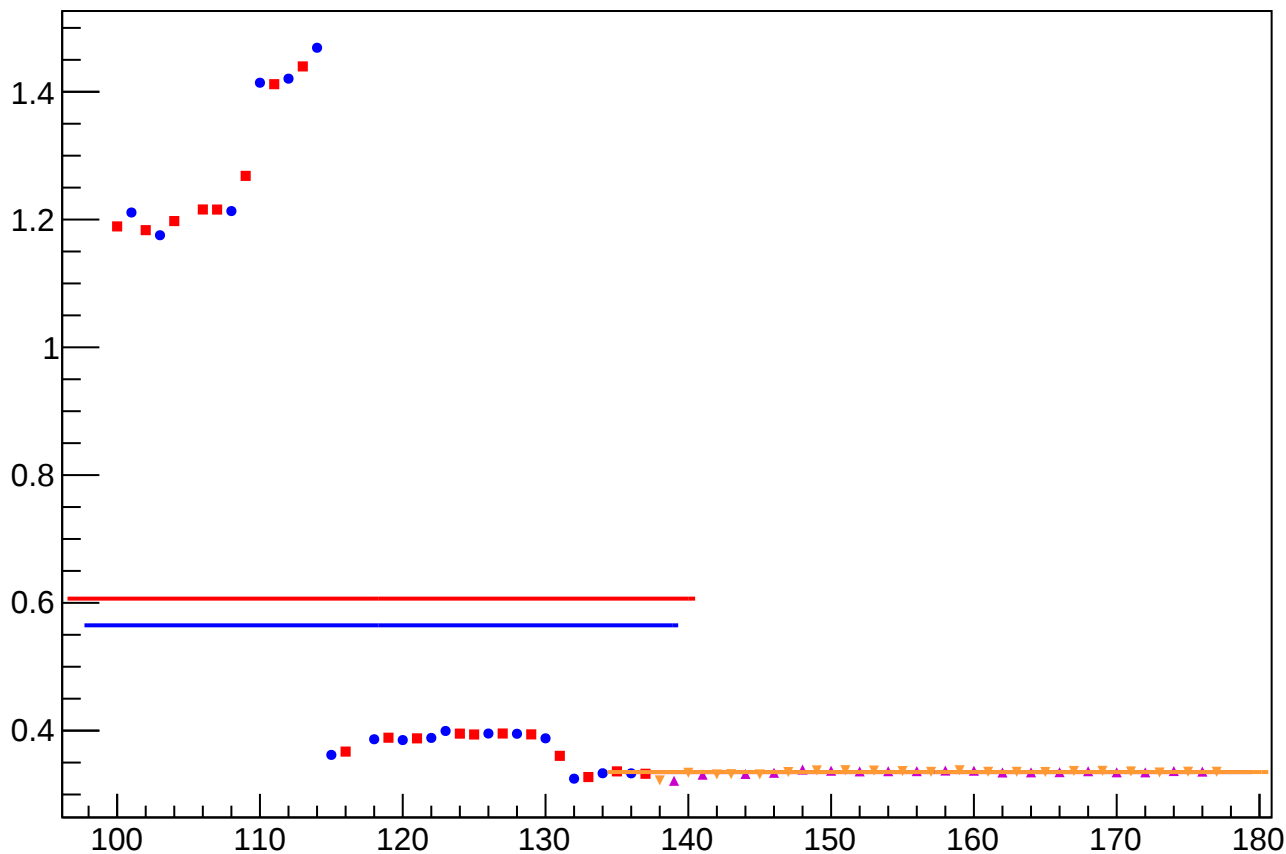
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1768892.3/35

Out: 0.019+/-0.000 χ^2/NDF : 1970576.9/39

All: 0.019+/-0.000 χ^2/NDF : 3739469.6/75

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565 $\pm$ 0.000 χ^2 /NDF: 5030969499.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1137145.0/20

Right Out: 0.607 $\pm$ 0.000 χ^2 /NDF: 5513752213.8/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1194898.8/18

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2332533.8/39

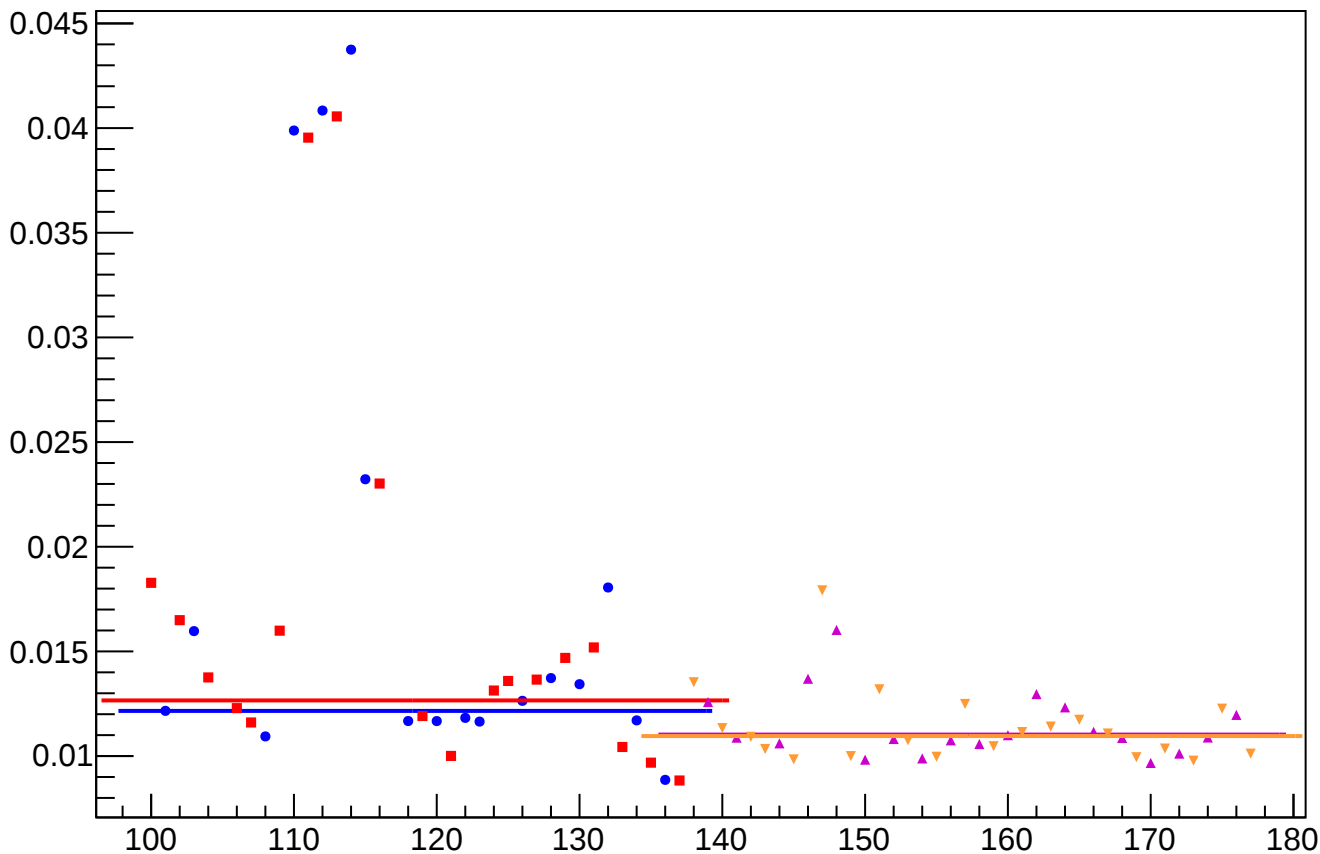
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10577520536.9/35

In: 0.393 $\pm$ 0.000 χ^2 /NDF:6548693539.1/35

Out: 0.397 $\pm$ 0.000 χ^2 /NDF:7608907252.2/39

All: 0.395 $\pm$ 0.000 χ^2 /NDF: 14159009369.0/78

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1309888.8/16

Left Out: 0.011+/-0.000 χ^2/NDF :478691.4/20

Right Out: 0.013+/-0.000 χ^2/NDF : 1270689.5/18

Left In: 0.011+/-0.000 χ^2/NDF :377169.1/18

Left: 0.011+/-0.000 χ^2/NDF : 856465.4/39

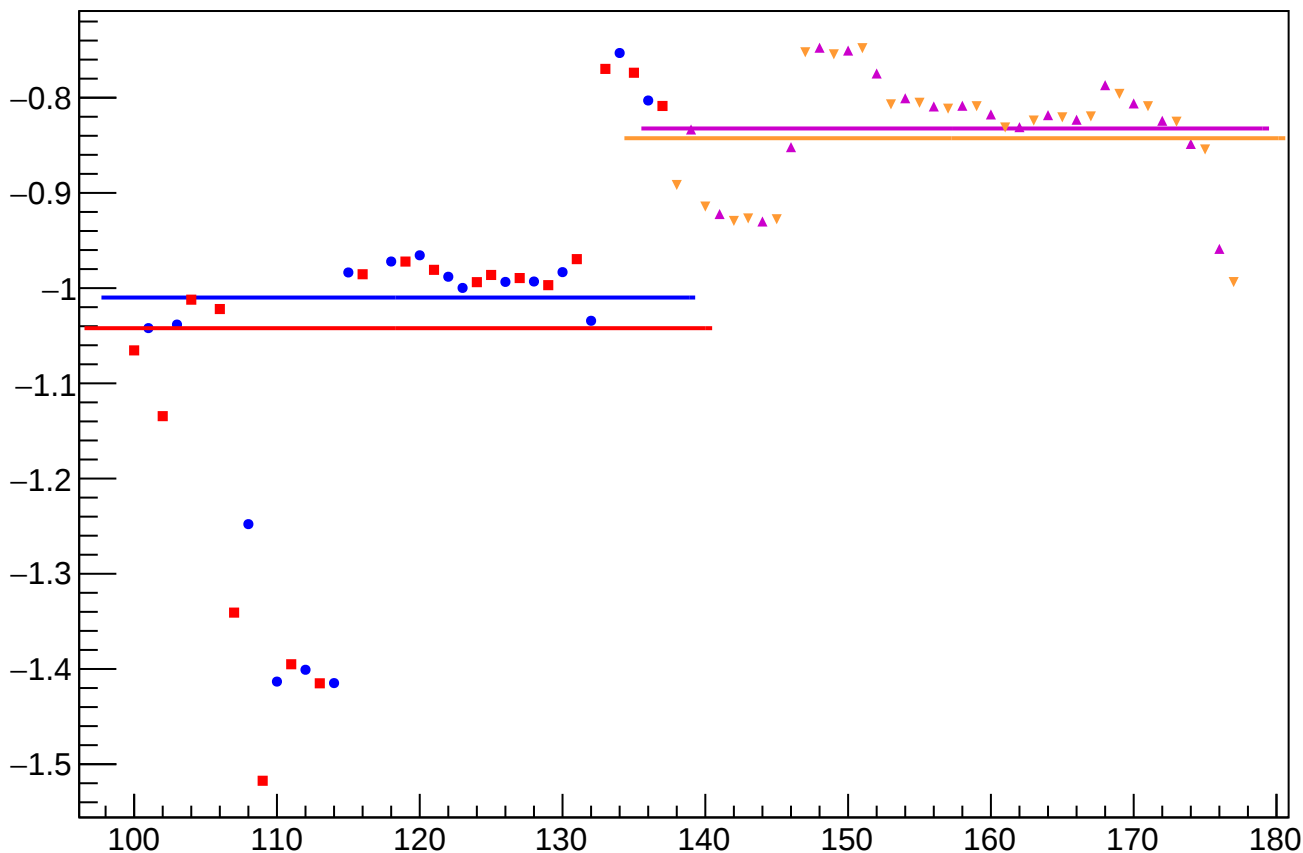
Right: 0.012+/-0.000 χ^2/NDF : 2589989.8/35

In: 0.011+/-0.000 χ^2/NDF :1760537.0/35

Out: 0.011+/-0.000 χ^2/NDF :1914138.4/39

All: 0.011+/-0.000 χ^2/NDF : 3674842.4/75

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 ± 0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.843 ± 0.000 χ^2/NDF : 143921308.0/20

Right Out: -1.042 ± 0.000 χ^2/NDF : 530106141.8/18

Left In: -0.832 ± 0.000 χ^2/NDF : 107713338.9/18

Left: -0.838 ± 0.000 χ^2/NDF : 253357320.4/39

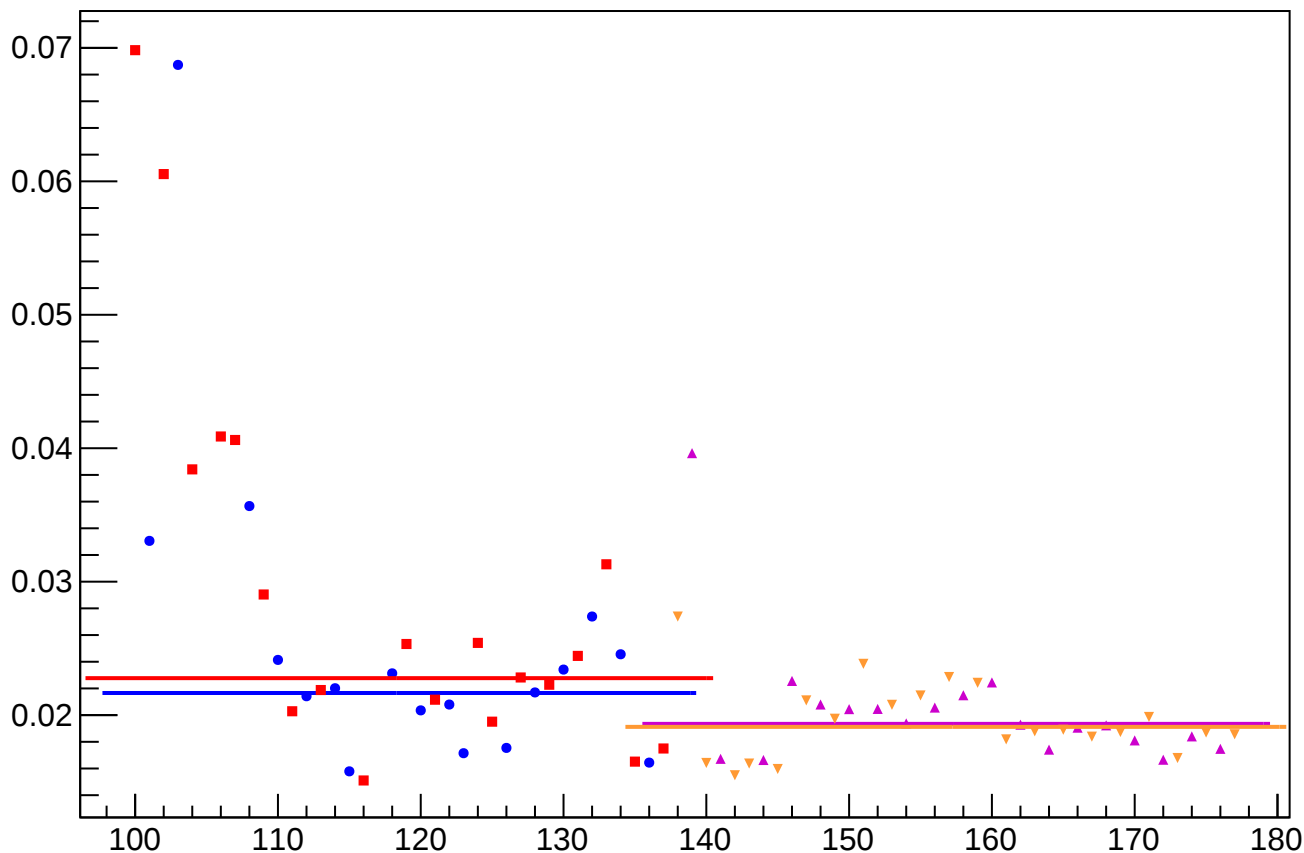
Right: -1.026 ± 0.000 χ^2/NDF : 923225272.3/35

In: -0.878 ± 0.000 χ^2/NDF : 749773402.5/35

Out: -0.888 ± 0.000 χ^2/NDF : 989112391.6/39

All: -0.883 ± 0.000 χ^2/NDF : 1741153111.5/77

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 : 425391.8/20

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 563869.4/18

Left: 0.019+/-0.000 χ^2/NDF : 990922.9/39

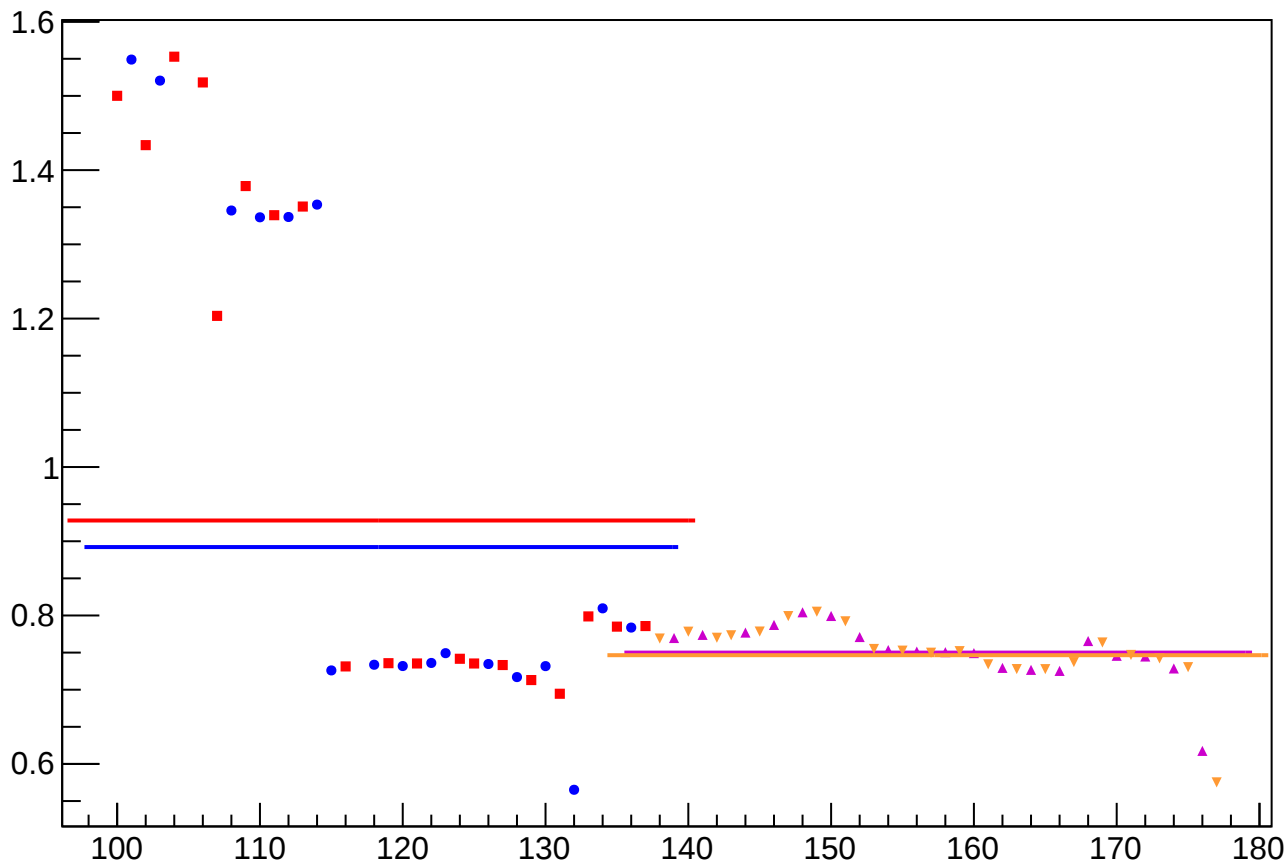
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1633796.7/35

Out: 0.020+/-0.000 χ^2/NDF : 1789037.1/39

All: 0.020+/-0.000 χ^2/NDF : 3422844.1/75

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892+/-0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.746+/-0.000 χ^2/NDF :220783973.2/20

Right Out: 0.928+/-0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.750+/-0.000 χ^2/NDF :127938342.5/18

Left: 0.748+/-0.000 χ^2/NDF : 349305897.9/39

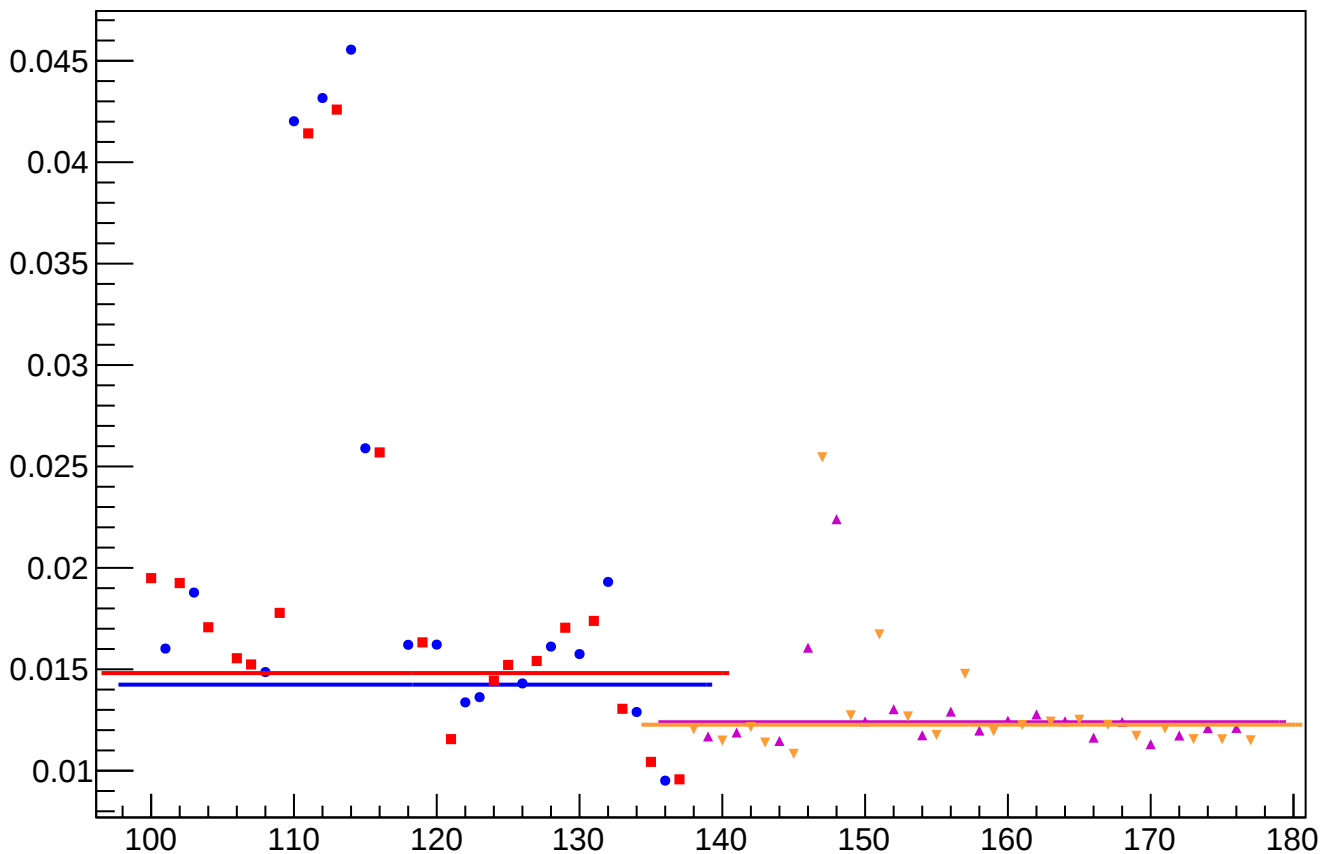
Right: 0.910+/-0.000 χ^2/NDF : 4868922187.9/35

In: 0.783+/-0.000 χ^2/NDF :2973159422.7/35

Out: 0.785+/-0.000 χ^2/NDF :3364326749.9/39

All: 0.784+/-0.000 χ^2/NDF : 6337796942.1/75

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1415681.3/16

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:614913.4/20

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1274172.7/18

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:437725.8/18

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1053991.0/39

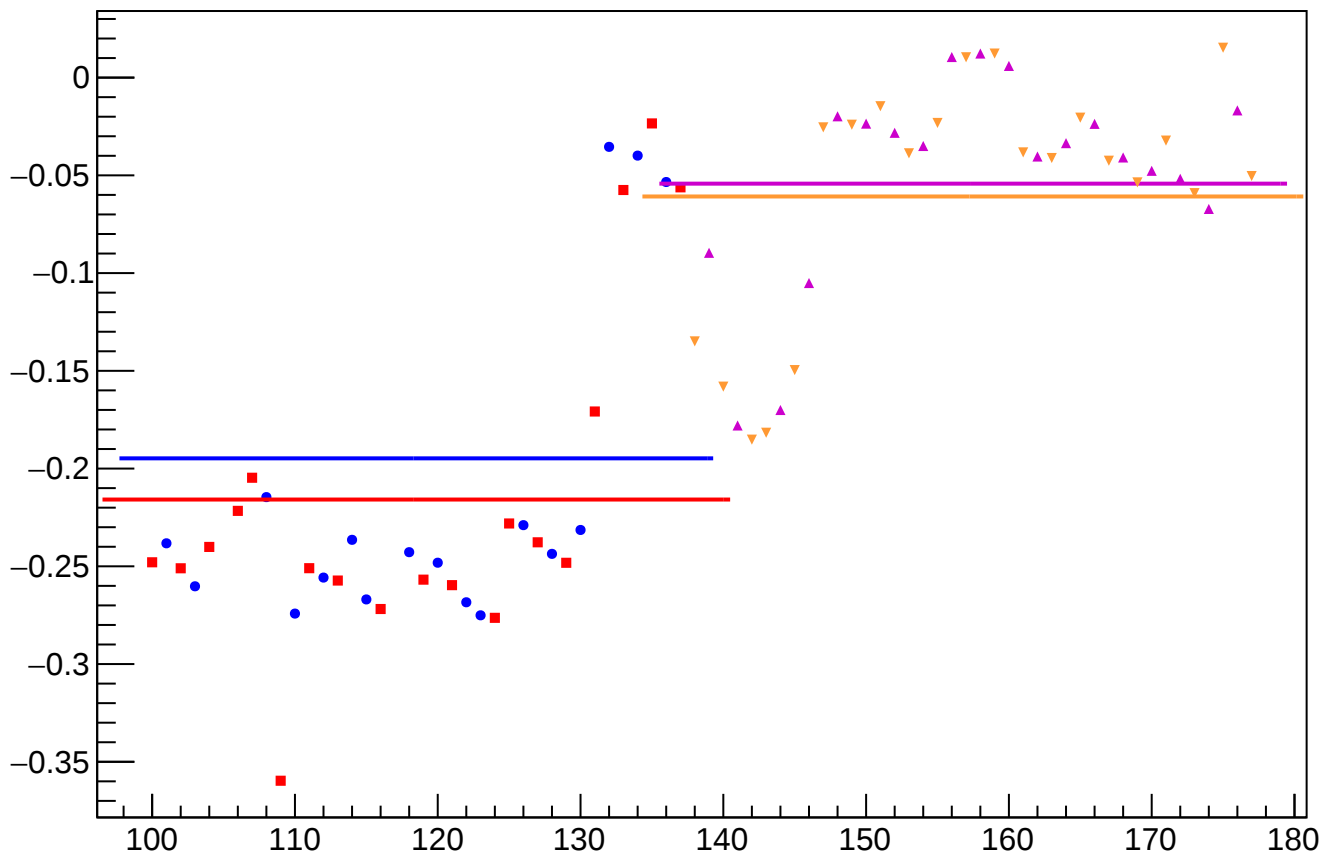
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 2698841.0/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2000346.1/35

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2166879.3/39

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 4167229.8/75

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195 $\pm$ 0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.061 $\pm$ 0.000 χ^2/NDF :126585895.6/20

Right Out: -0.216 $\pm$ 0.000 χ^2/NDF : 111983904.6/18

Left In: -0.054 $\pm$ 0.000 χ^2/NDF :100583846.7/18

Left: -0.058 $\pm$ 0.000 χ^2/NDF : 227897998.7/39

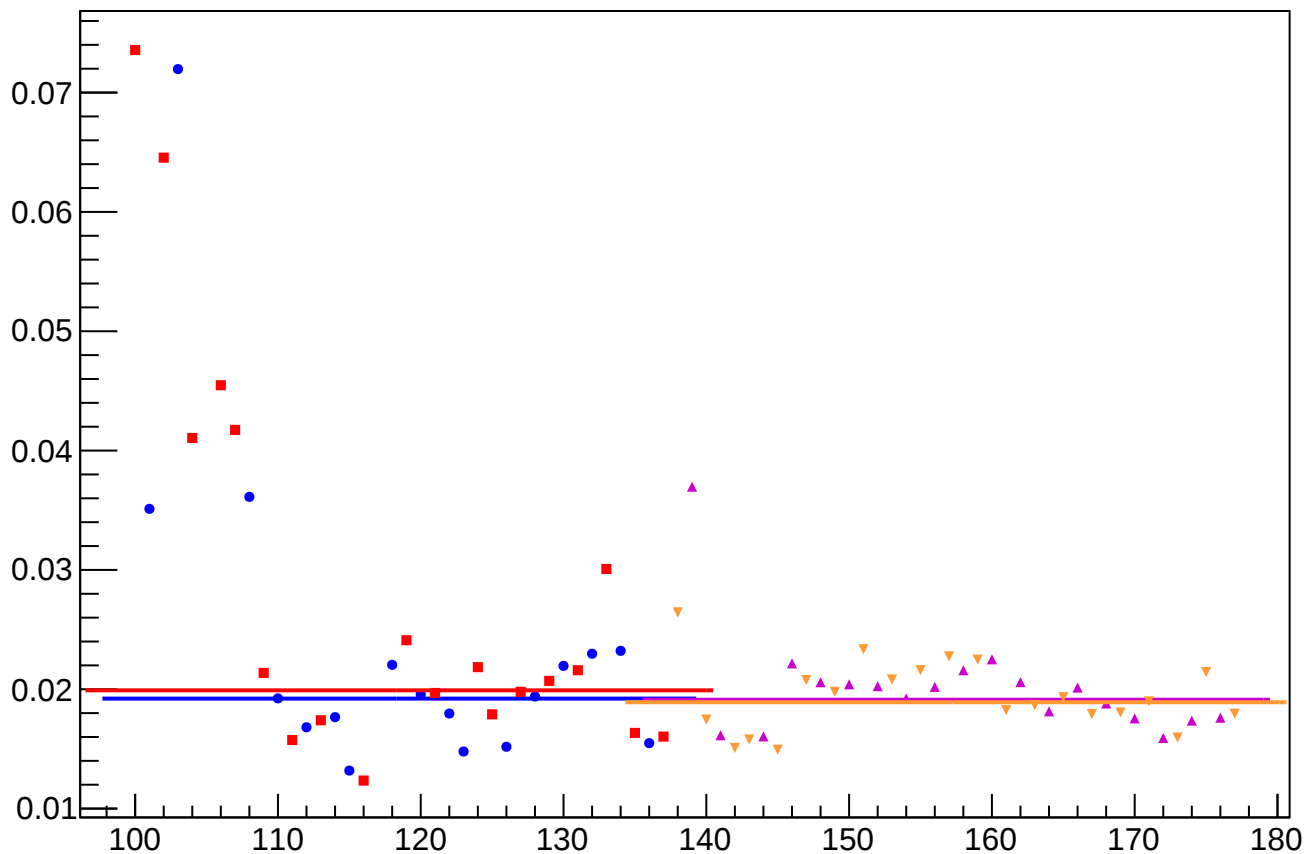
Right: -0.205 $\pm$ 0.000 χ^2/NDF : 223598203.8/35

In: -0.096 $\pm$ 0.000 χ^2/NDF :397978651.7/35

Out: -0.103 $\pm$ 0.000 χ^2/NDF :468360297.4/39

All: -0.099 $\pm$ 0.000 χ^2/NDF : 867382004.8/75

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 : 497268.7/20

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.019+/-0.000 χ^2/NDF : 582725.0/18

Left: 0.019+/-0.000 χ^2/NDF : 1081456.7/39

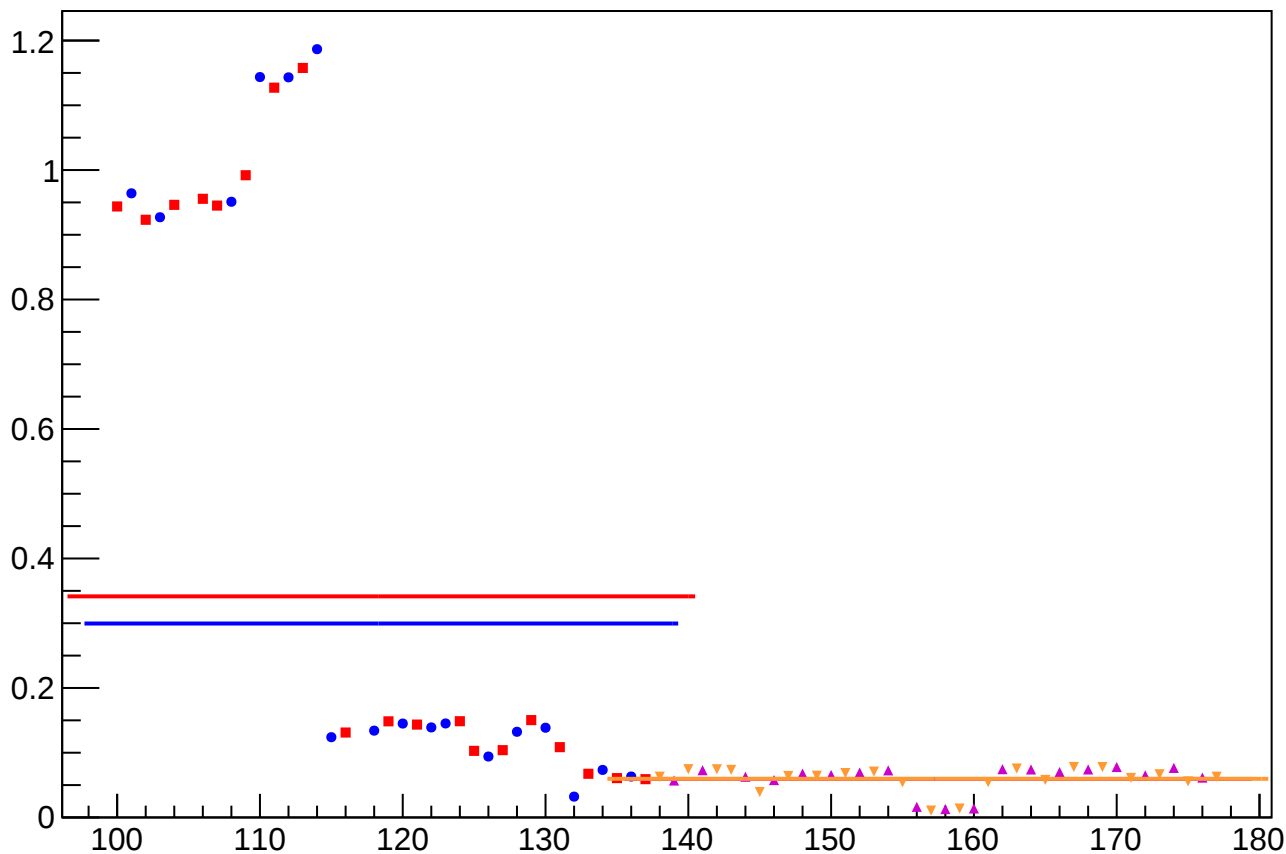
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1759989.3/35

Out: 0.019+/-0.000 χ^2/NDF : 1963251.4/39

All: 0.019+/-0.000 χ^2/NDF : 3723288.5/75

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.060+/-0.000 χ^2/NDF : 44010642.6/20

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.059+/-0.000 χ^2/NDF : 57214938.0/18

Left: 0.060+/-0.000 χ^2/NDF : 101228348.9/39

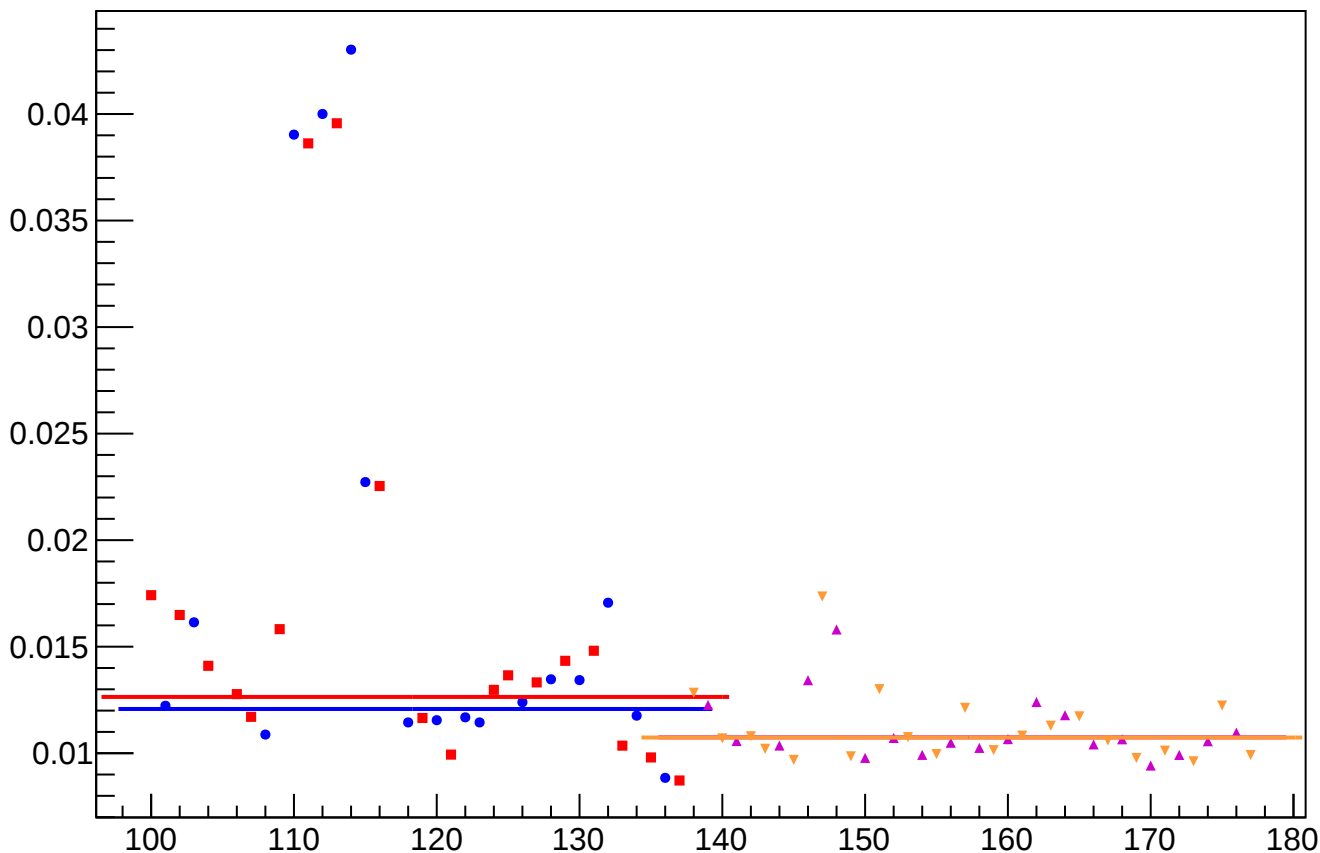
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.118+/-0.000 χ^2/NDF : 6917716190.8/35

Out: 0.122+/-0.000 χ^2/NDF : 7775142430.1/39

All: 0.120+/-0.000 χ^2/NDF : 14694201991.6/78

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1282097.7/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:453127.5/20

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1237706.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:350164.6/18

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 803300.1/39

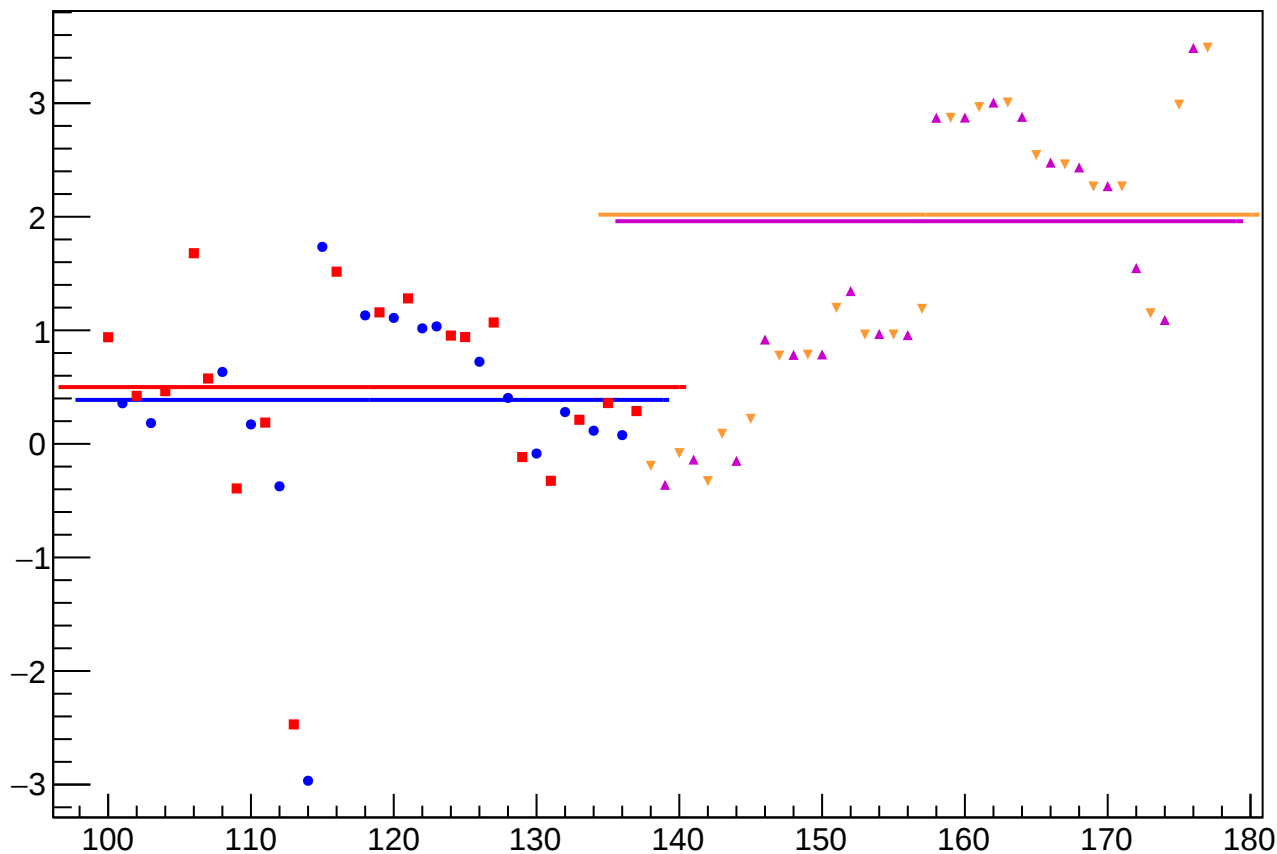
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1736524.3/35

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1899343.5/39

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3637163.8/75

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 ± 0.000 χ^2/NDF : 247912593.5/16

Left Out: 2.018 ± 0.000 χ^2/NDF : 37085749494.4/20

Right Out: 0.500 ± 0.000 χ^2/NDF : 983360928.1/18

Left In: 1.961 ± 0.000 χ^2/NDF : 36435346735.2/18

Left: 1.989 ± 0.000 χ^2/NDF : 73590790128.3/39

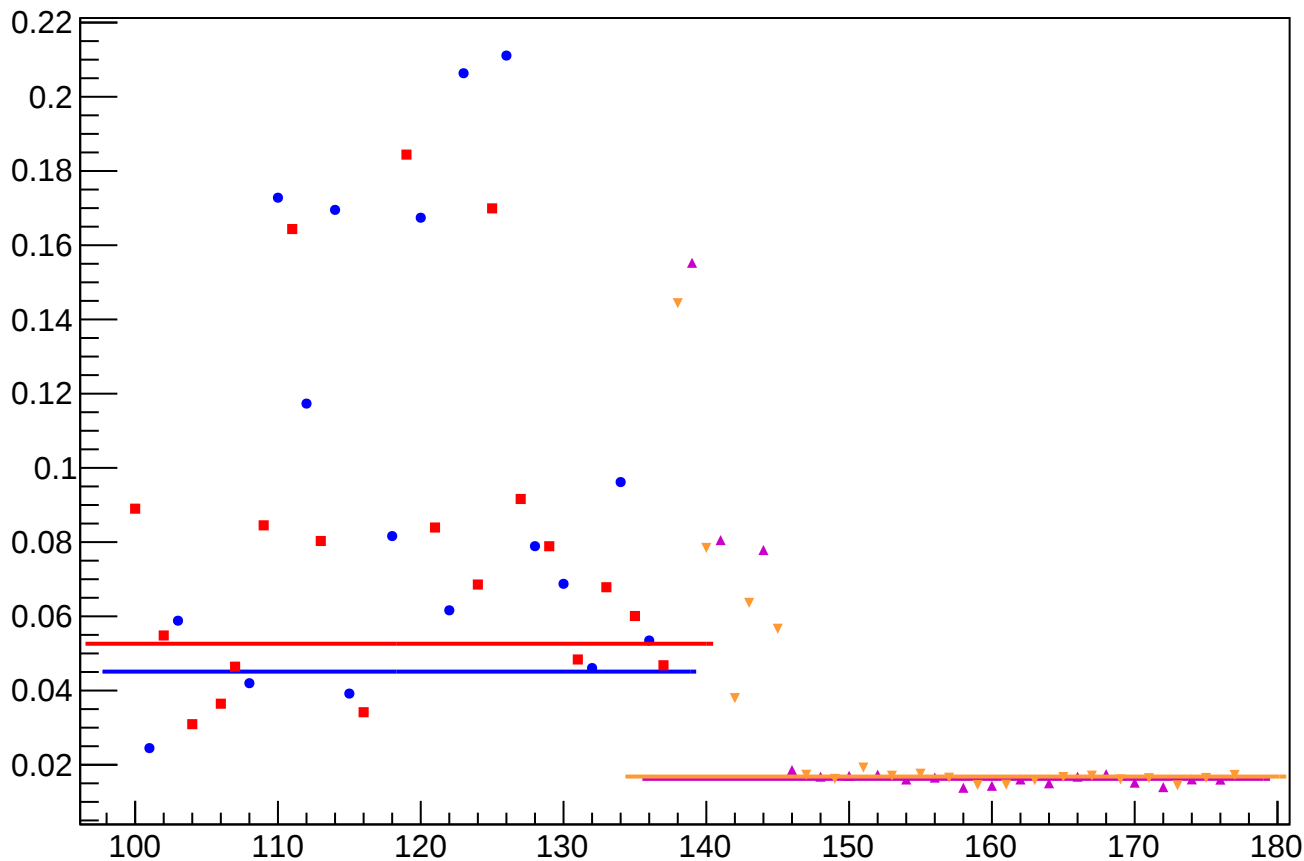
Right: 0.439 ± 0.000 χ^2/NDF : 1241544973.3/35

In: 1.898 ± 0.000 χ^2/NDF : 40838971407.1/35

Out: 1.966 ± 0.000 χ^2/NDF : 41390301597.6/39

All: 1.931 ± 0.000 χ^2/NDF : 82329663284.9/77

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 : 2776795.9/20

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.016+/-0.000 χ^2/NDF : 2380880.6/18

Left: 0.017+/-0.000 χ^2/NDF : 5173961.5/39

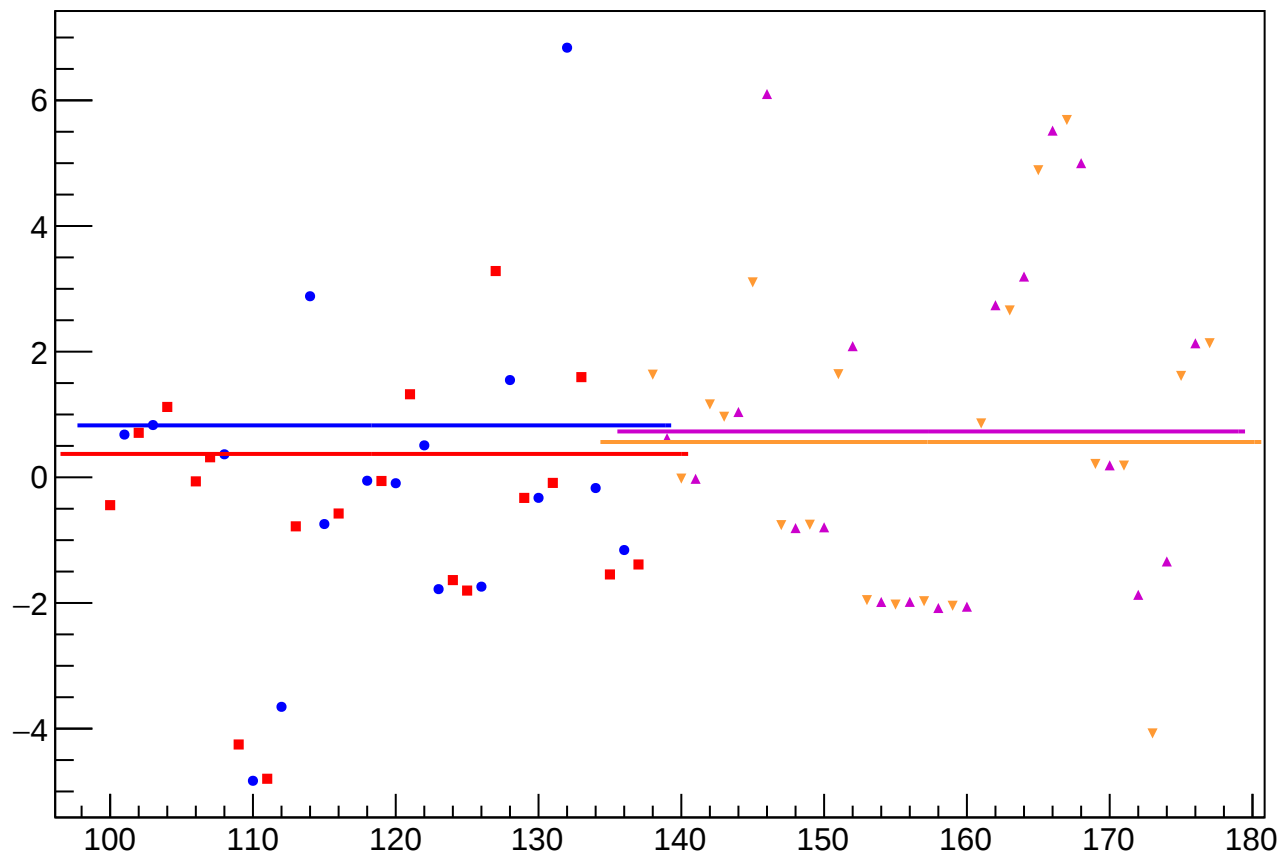
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.017+/-0.000 χ^2/NDF : 8031492.8/35

Out: 0.018+/-0.000 χ^2/NDF : 8657821.5/39

All: 0.018+/-0.000 χ^2/NDF : 16711191.4/75

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.646+/-0.000

χ^2/NDF : 1032565859831.0/39

Left Out: 0.562+/-0.000

χ^2/NDF : 484981645732.1/20

Right: 0.613+/-0.000

χ^2/NDF : 16291516809.6/35

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

In: 0.735+/-0.000

χ^2/NDF : 557587932256.5/35

Left In: 0.730+/-0.000

χ^2/NDF : 546616782064.8/18

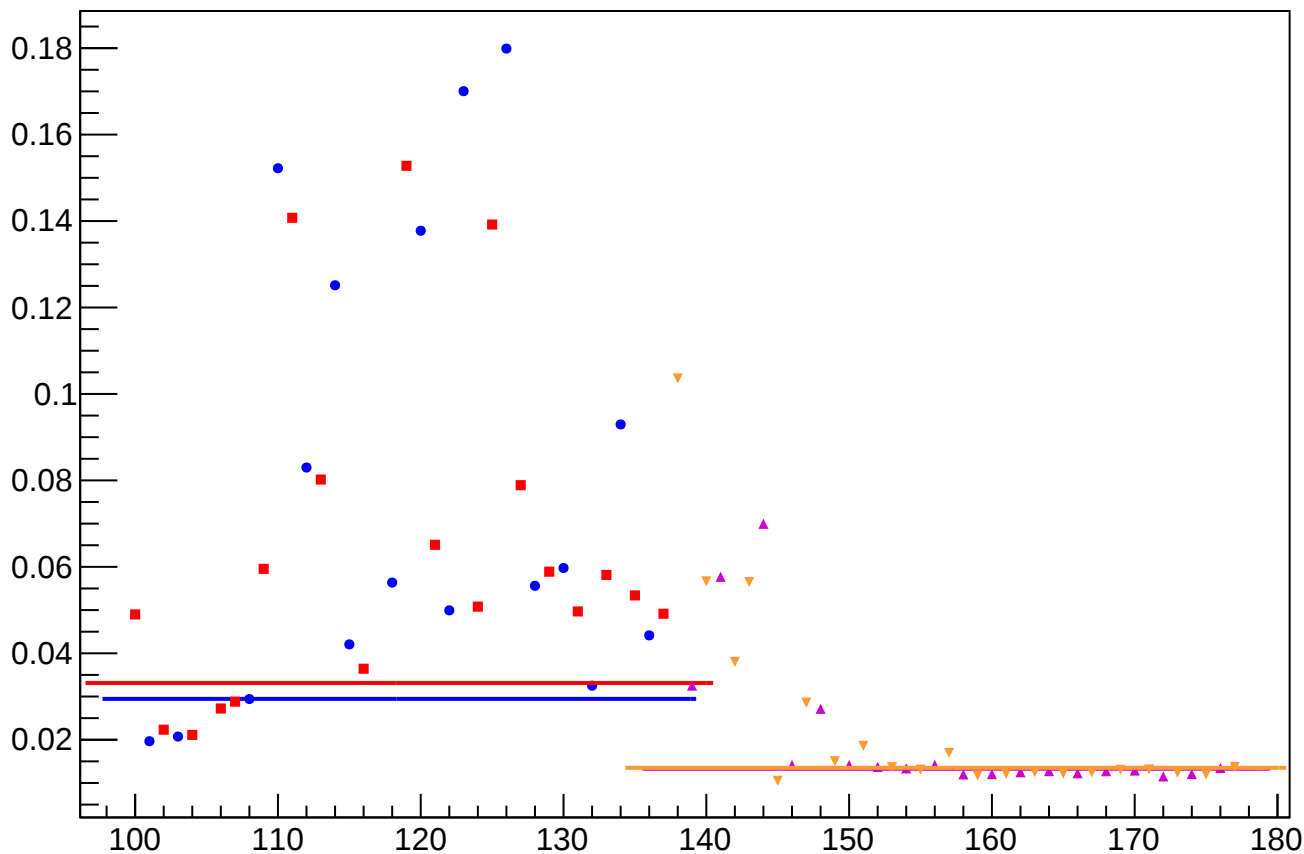
Out: 0.553+/-0.000

χ^2/NDF : 490074619384.3/39

All: 0.644+/-0.000

χ^2/NDF : 1048864970173.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.014+/-0.000 χ^2/NDF :2891407.0/20

Right Out: 0.033+/-0.000 χ^2/NDF : 3096820.9/18

Left In: 0.013+/-0.000 χ^2/NDF :1927640.5/18

Left: 0.013+/-0.000 χ^2/NDF : 4822238.6/39

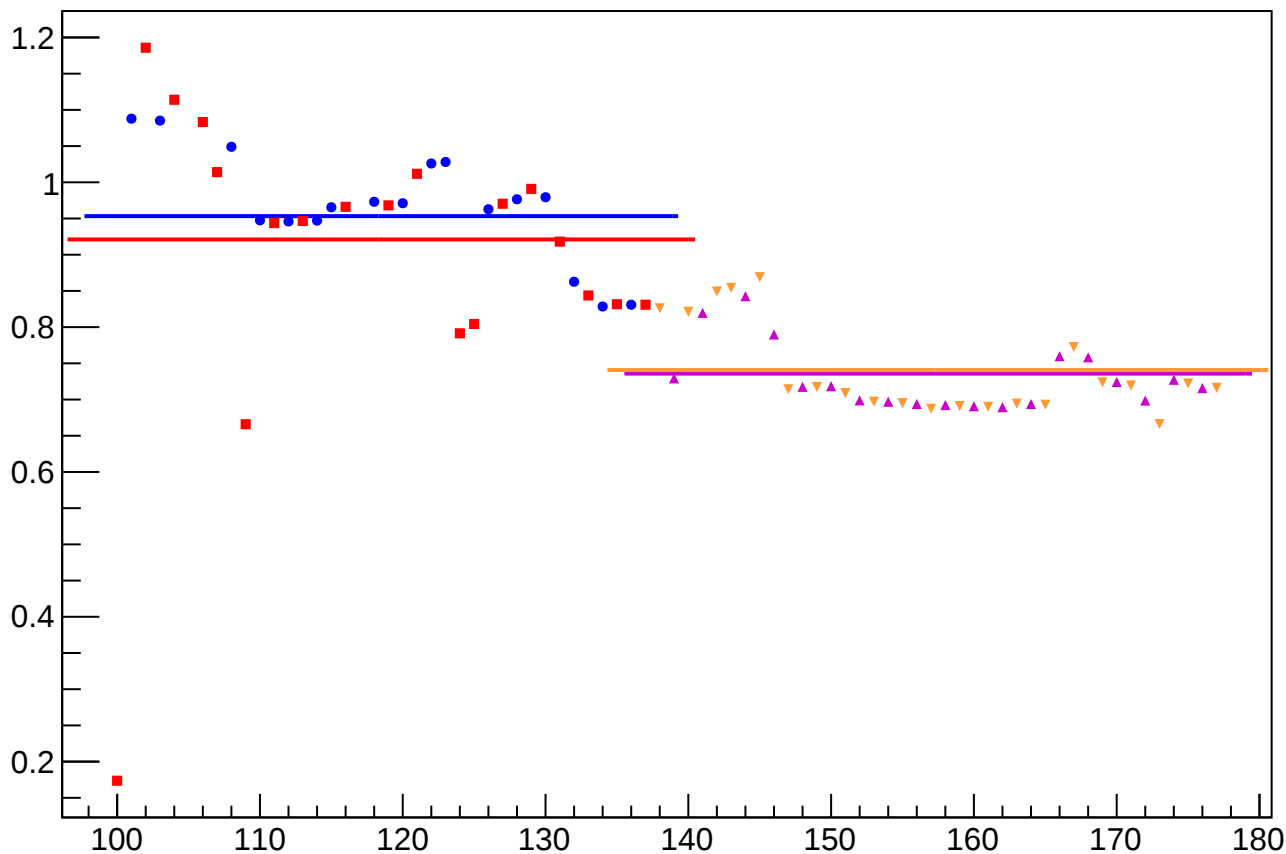
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.014+/-0.000 χ^2/NDF :6925888.1/35

Out: 0.014+/-0.000 χ^2/NDF :8556278.3/39

All: 0.014+/-0.000 χ^2/NDF : 15487878.0/75

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953 $\pm$ 0.000 χ^2 /NDF: 175396553.4/16

Left Out: 0.741 $\pm$ 0.000 χ^2 /NDF: 292003980.7/20

Right Out: 0.921 $\pm$ 0.000 χ^2 /NDF: 374221279.1/18

Left In: 0.736 $\pm$ 0.000 χ^2 /NDF: 165204634.1/18

Left: 0.738 $\pm$ 0.000 χ^2 /NDF: 458083428.6/39

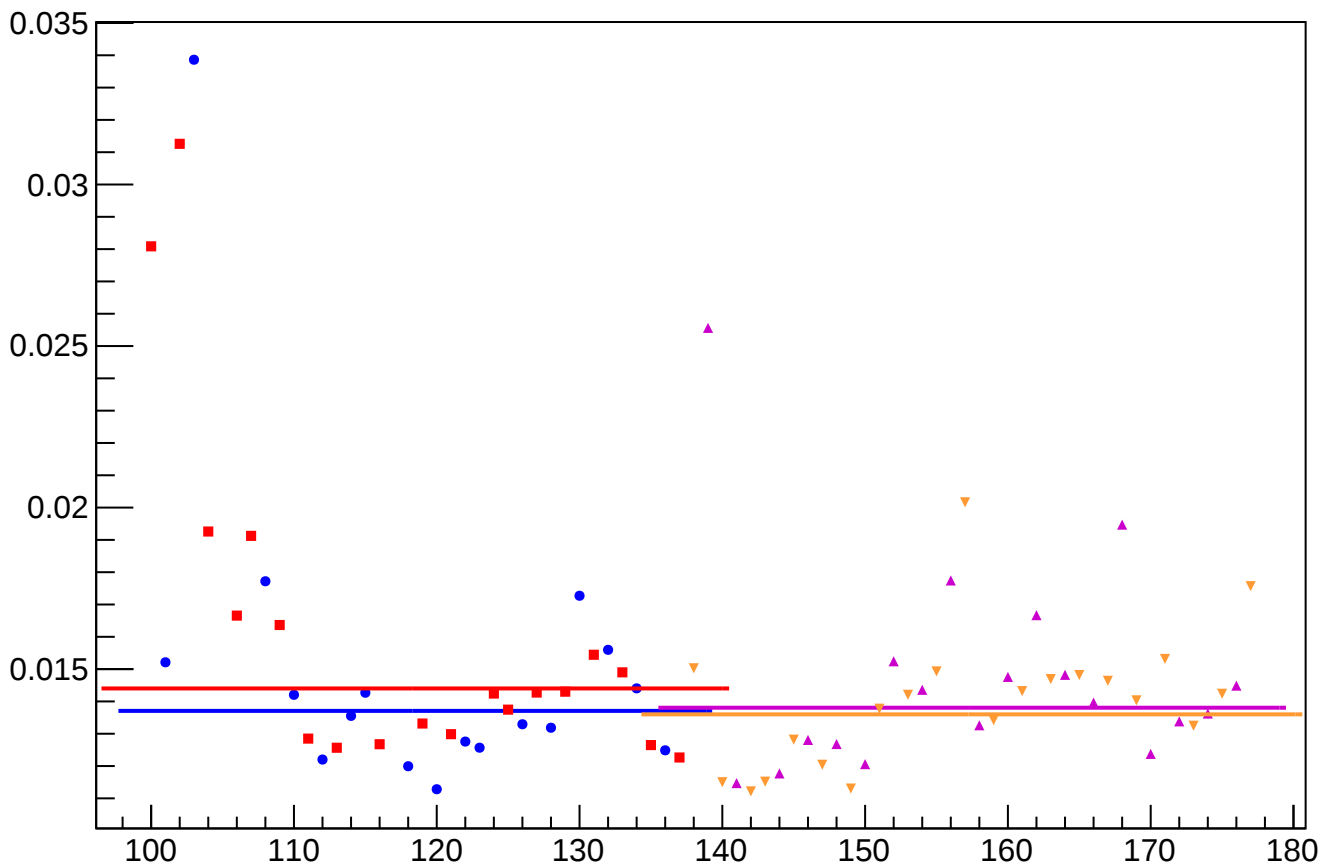
Right: 0.938 $\pm$ 0.000 χ^2 /NDF: 565209467.5/35

In: 0.804 $\pm$ 0.000 χ^2 /NDF: 1346409108.2/35

Out: 0.792 $\pm$ 0.000 χ^2 /NDF: 1350768802.7/39

All: 0.798 $\pm$ 0.000 χ^2 /NDF: 2704570739.6/75

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.014+/-0.000 χ^2/NDF : 471026.5/20

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF : 728802.3/18

Left: 0.014+/-0.000 χ^2/NDF : 1202827.1/39

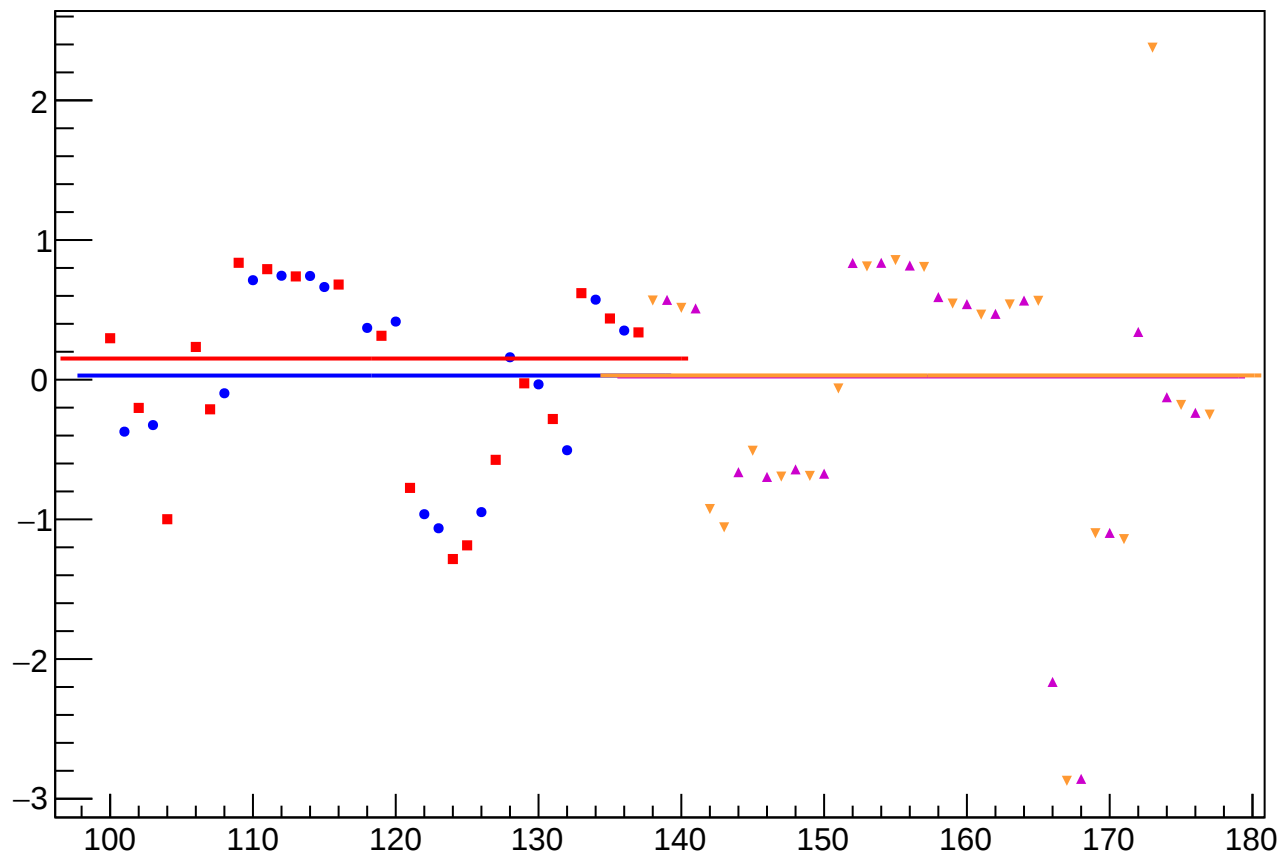
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1275527.7/35

Out: 0.014+/-0.000 χ^2/NDF : 999860.3/39

All: 0.014+/-0.000 χ^2/NDF : 2275661.5/75

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 6294824795.0/16

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 95482825883.5/20

Right Out: 0.152 $\pm$ 0.000 χ^2 /NDF: 12661812059.7/18

Left In: 0.023 $\pm$ 0.000 χ^2 /NDF: 78535607895.4/18

Left: 0.027 $\pm$ 0.000 χ^2 /NDF: 174021006514.0/39

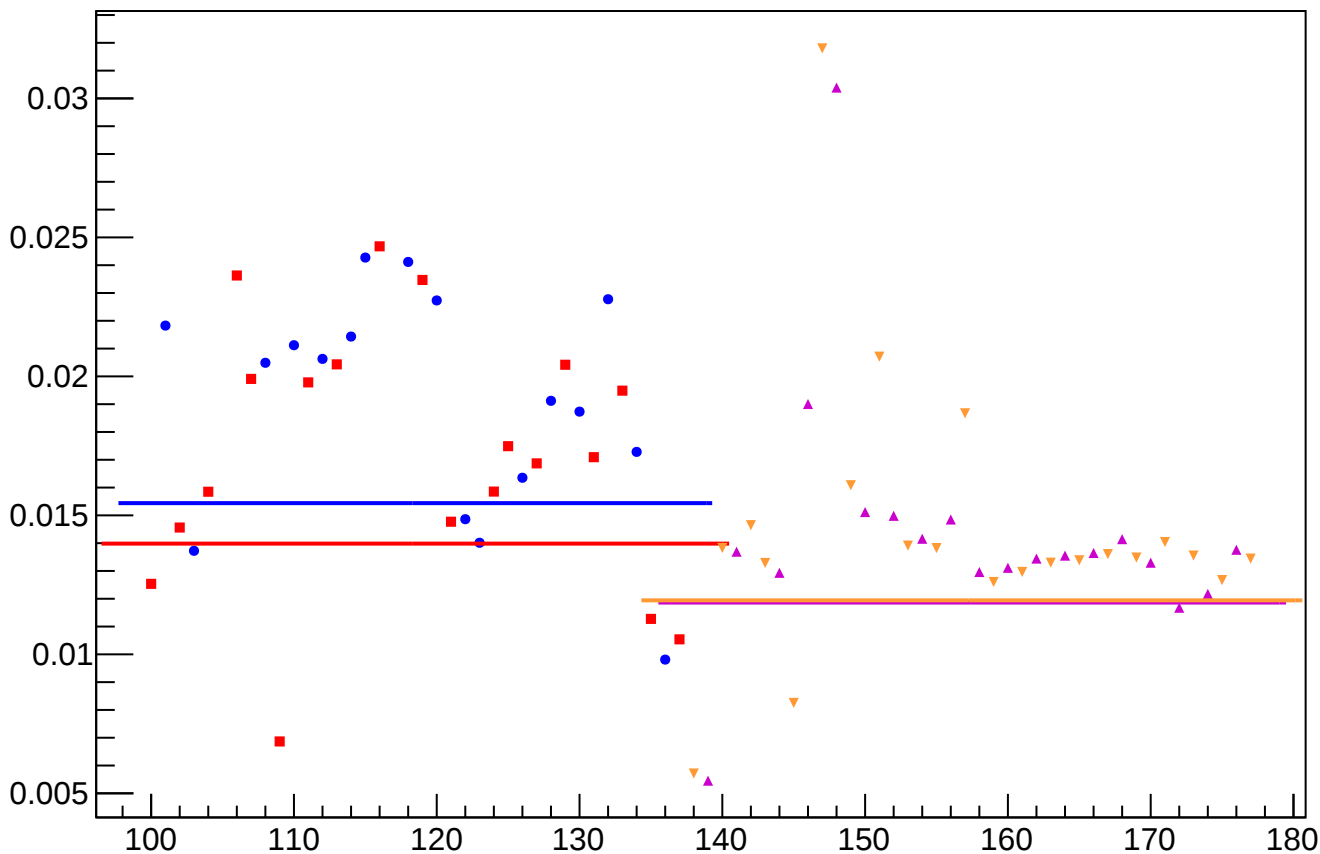
Right: 0.096 $\pm$ 0.000 χ^2 /NDF: 19149304558.7/35

In: 0.024 $\pm$ 0.000 χ^2 /NDF: 84831253077.8/35

Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 108466262275.1/39

All: 0.042 $\pm$ 0.000 χ^2 /NDF: 193366487857.7

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 :3065211.6/20

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF :2969074.9/18

Left: 0.012+/-0.000 χ^2/NDF : 6034857.8/39

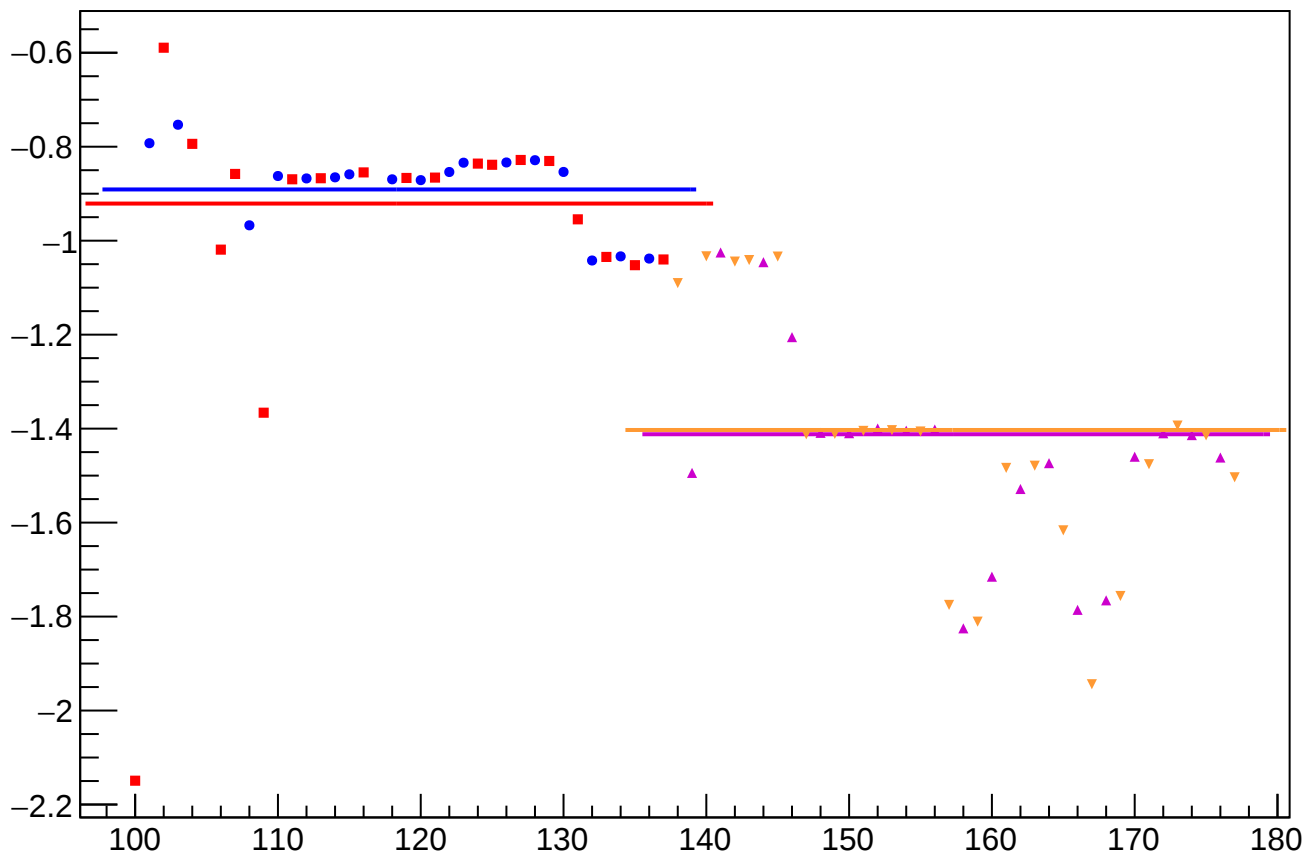
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF :4610003.1/35

Out: 0.012+/-0.000 χ^2/NDF :4809104.1/39

All: 0.013+/-0.000 χ^2/NDF : 9423792.3/75

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 39578323.2/16$

Left Out: -1.403 ± 0.000 $\chi^2/\text{NDF}: 721582853.1/20$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 131183059.9/18$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512097209.2/18$

Left: -1.407 ± 0.000 $\chi^2/\text{NDF}: 1234117361.5/39$

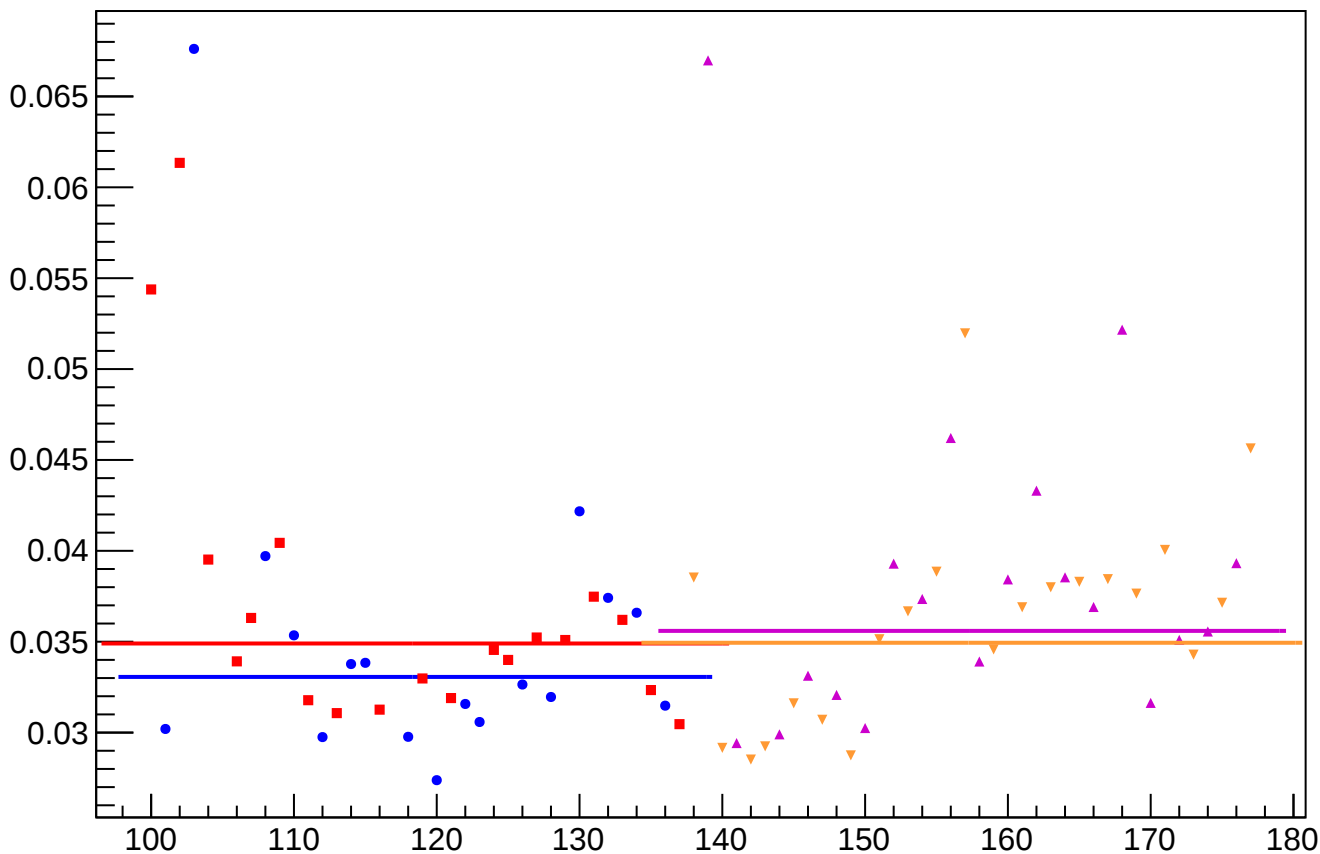
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173111604.1/35$

In: -1.231 ± 0.000 $\chi^2/\text{NDF}: 1503333696.2/35$

Out: -1.253 ± 0.000 $\chi^2/\text{NDF}: 1660530244.6/39$

All: -1.242 ± 0.000 $\chi^2/\text{NDF}: 3167588189.4/7$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2/NDF : 409286.7/16

Left Out: 0.035 $\pm$ 0.000 χ^2/NDF :534349.3/20

Right Out: 0.035 $\pm$ 0.000 χ^2/NDF : 274270.8/18

Left In: 0.036 $\pm$ 0.000 χ^2/NDF :820419.1/18

Left: 0.035 $\pm$ 0.000 χ^2/NDF : 1359296.0/39

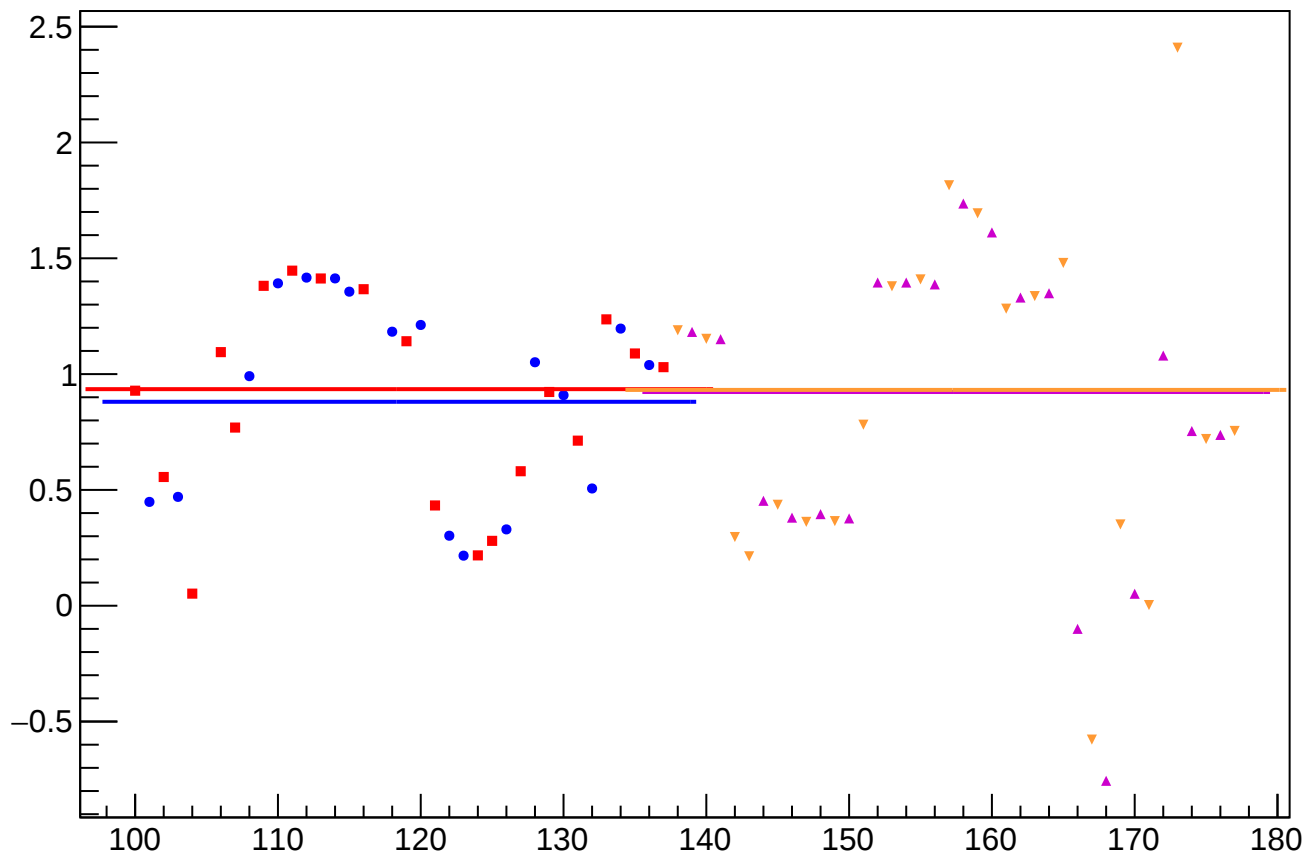
Right: 0.034 $\pm$ 0.000 χ^2/NDF : 701180.7/35

In: 0.035 $\pm$ 0.000 χ^2/NDF :1274692.5/35

Out: 0.035 $\pm$ 0.000 χ^2/NDF :808631.2/39

All: 0.035 $\pm$ 0.000 χ^2/NDF : 2084047.0/75

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000

χ^2 /NDF: 6400108121.4/16

Left: 0.927 $\pm$ 0.000 χ^2 /NDF: 148746294945.6/39

Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

Left Out: 0.932 $\pm$ 0.000

χ^2 /NDF: 82921289575.4/20

In: 0.913 $\pm$ 0.000 χ^2 /NDF: 72289770307.5/35

Right Out: 0.935 $\pm$ 0.000

χ^2 /NDF: 9833525935.6/18

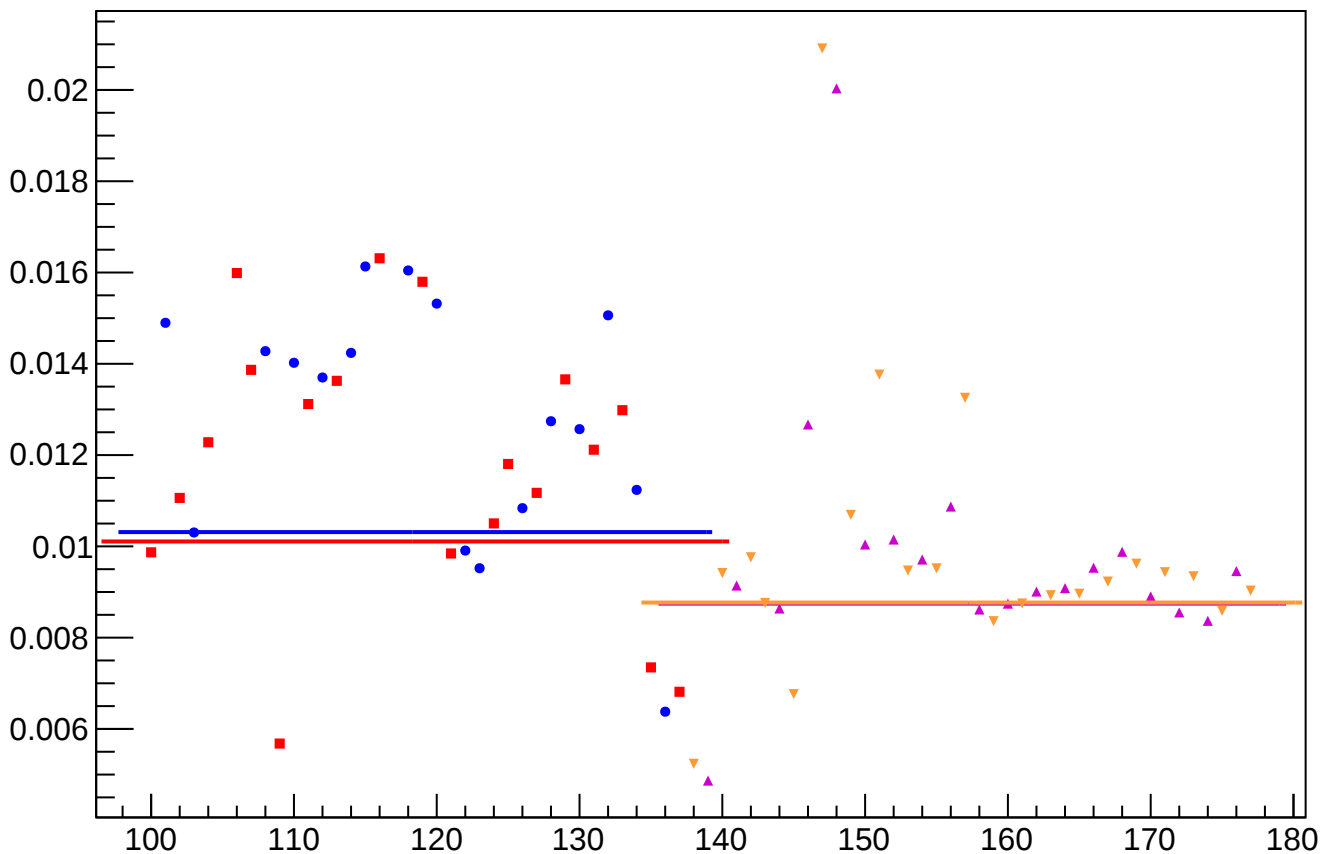
Out: 0.933 $\pm$ 0.000 χ^2 /NDF: 92755270701.6/39

Left In: 0.923 $\pm$ 0.000

χ^2 /NDF: 65817645586.8/18

All: 0.923 $\pm$ 0.000 χ^2 /NDF: 165090590549.8

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 : 1695456.7/20

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 1603356.7/18

Left: 0.009+/-0.000 χ^2/NDF : 3298921.4/39

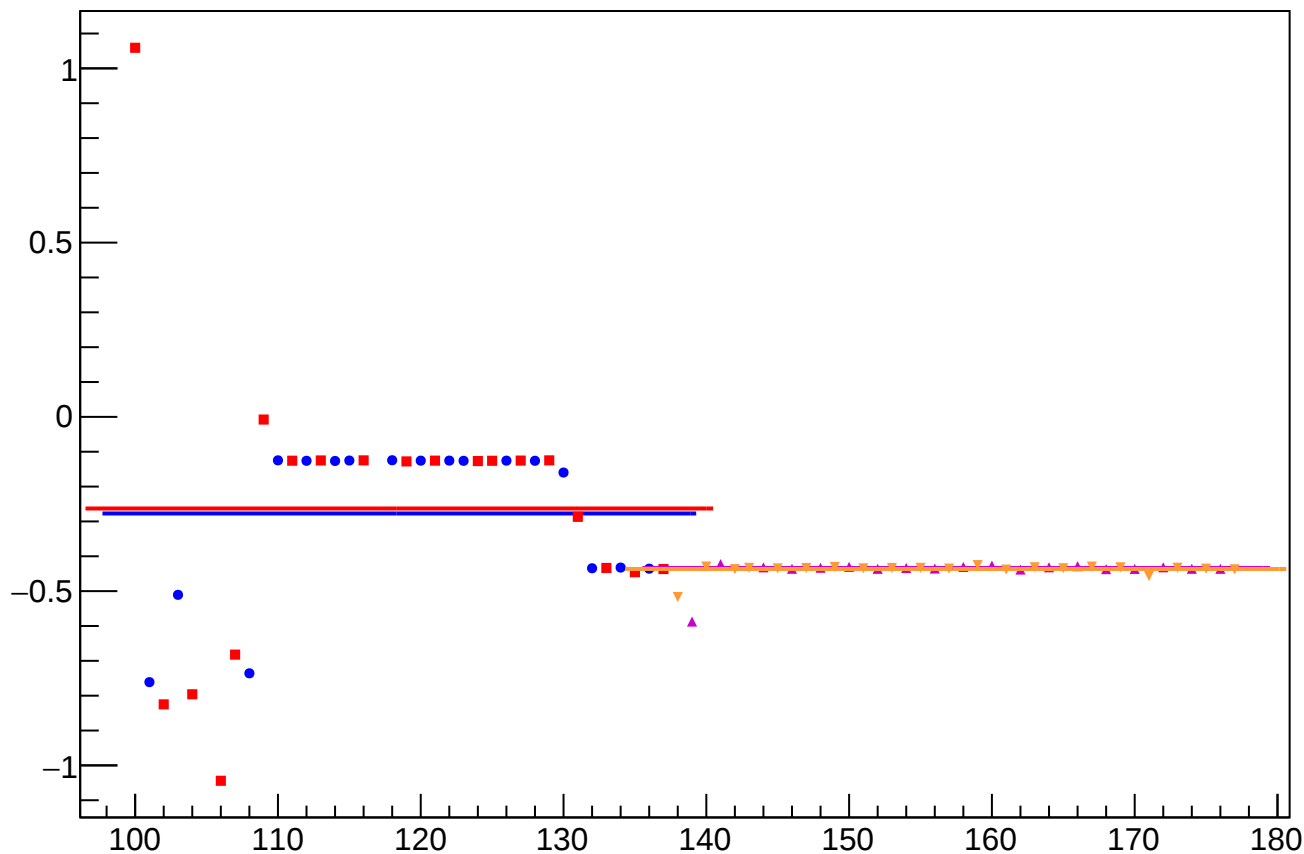
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF : 3032921.5/35

Out: 0.009+/-0.000 χ^2/NDF : 3030495.8/39

All: 0.009+/-0.000 χ^2/NDF : 6063611.9/75

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277 ± 0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.436 ± 0.000 χ^2/NDF : 28749787.4/20

Right Out: -0.263 ± 0.000 χ^2/NDF : 1008398102.0/18

Left In: -0.434 ± 0.000 χ^2/NDF : 23735784.6/18

Left: -0.435 ± 0.000 χ^2/NDF : 52992476.5/39

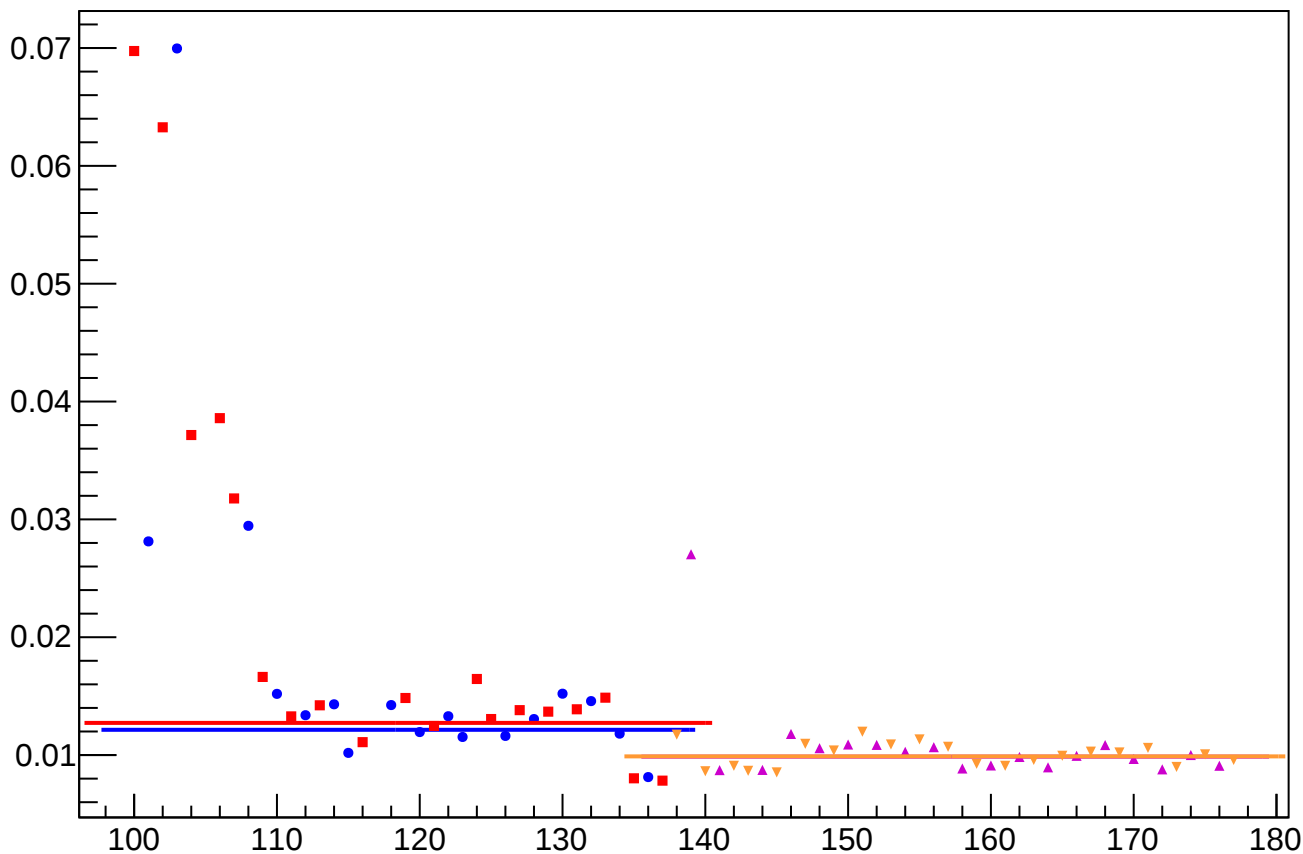
Right: -0.270 ± 0.000 χ^2/NDF : 1952121842.2/35

In: -0.402 ± 0.000 χ^2/NDF : 1587916790.9/35

Out: -0.405 ± 0.000 χ^2/NDF : 1775294893.4/39

All: -0.404 ± 0.000 χ^2/NDF : 3364077077.2/77

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:248255.9/20

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1969165.0/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:734091.1/18

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 982407.7/39

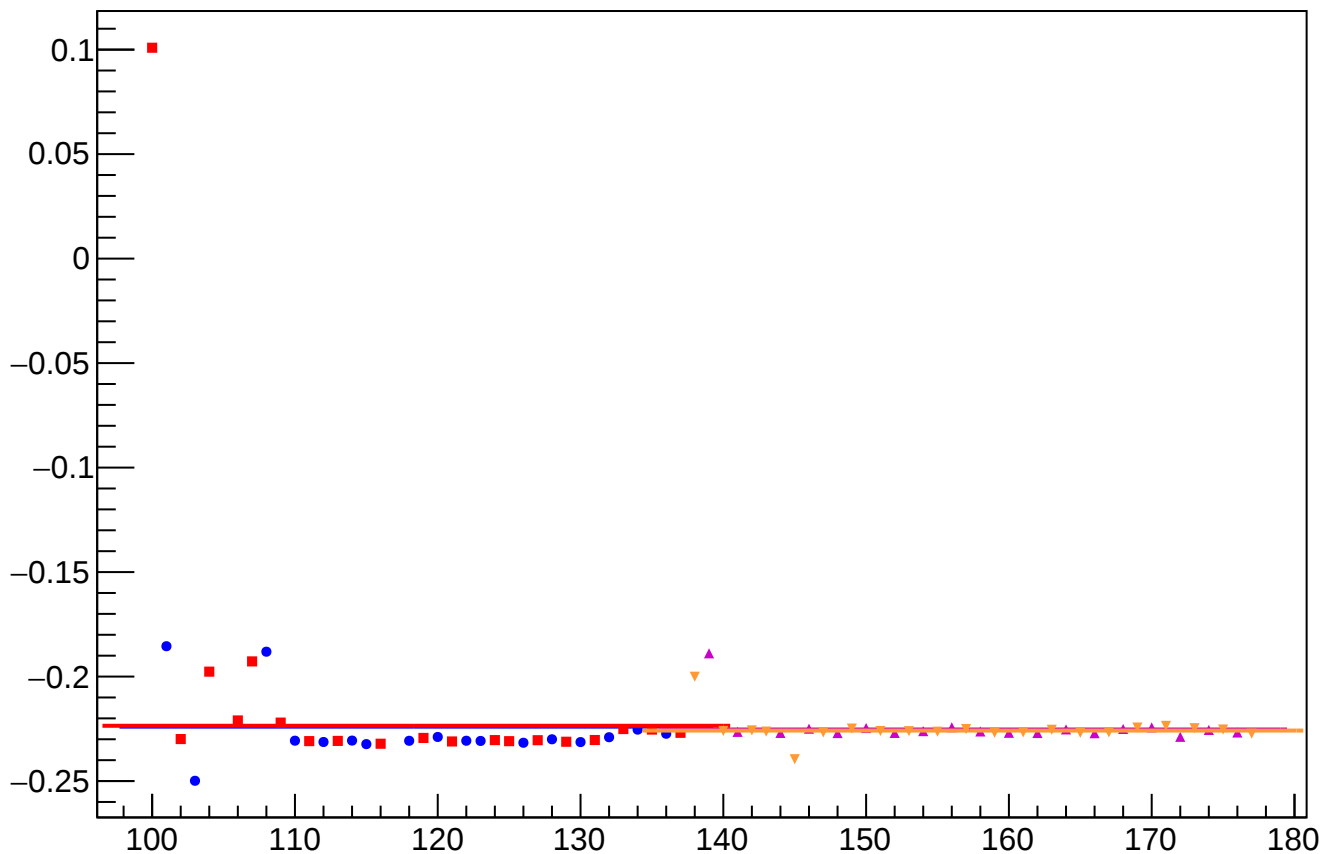
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2725773.9/35

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2613233.1/39

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5339831.8/75

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 74704721.6/16

Left Out: -0.226+/-0.000 χ^2/NDF : 20935934.1/20

Right Out: -0.224+/-0.000 χ^2/NDF : 168125914.6/18

Left In: -0.225+/-0.000 χ^2/NDF : 14747676.1/18

Left: -0.226+/-0.000 χ^2/NDF : 35750783.1/39

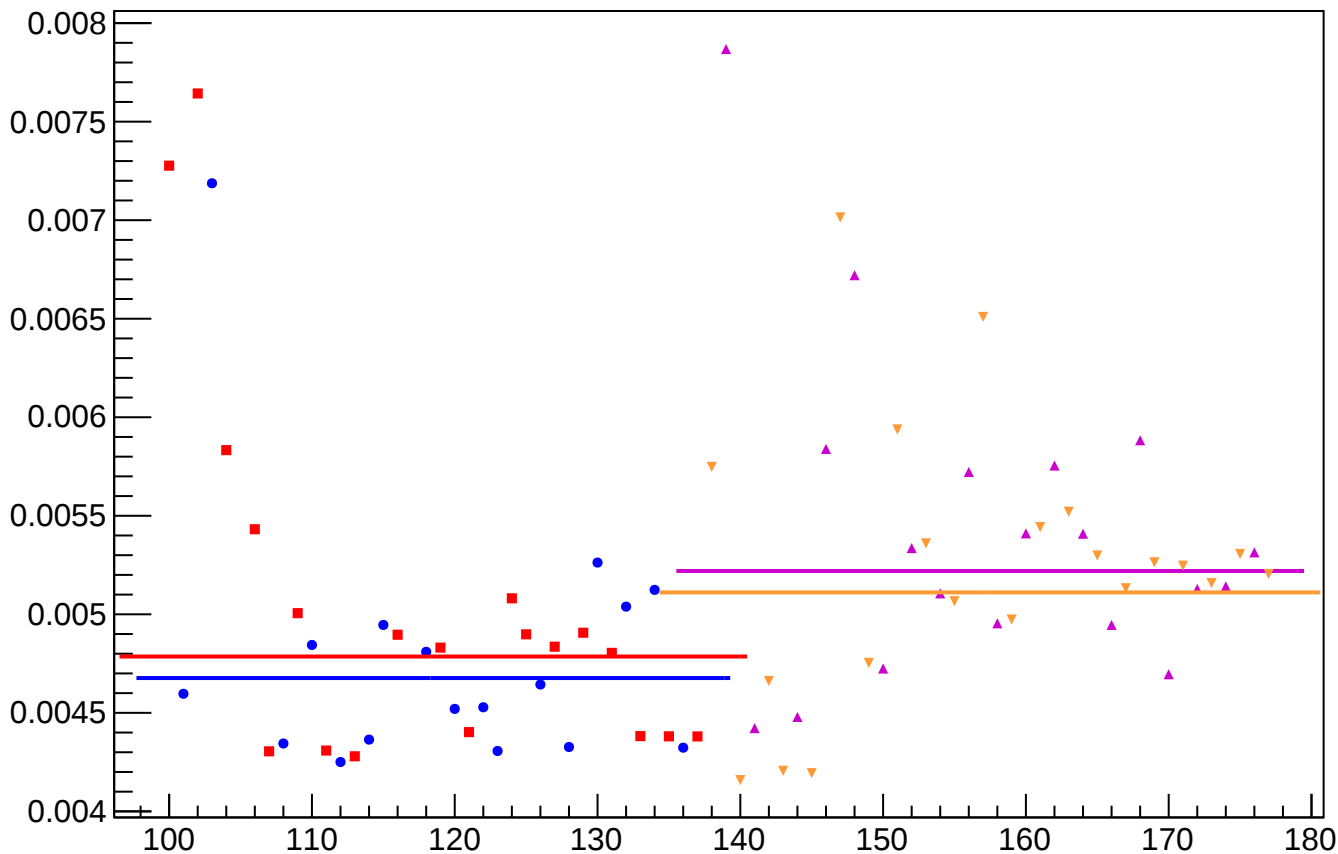
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89794709.1/35

Out: -0.225+/-0.000 χ^2/NDF : 190040204.9/39

All: -0.225+/-0.000 χ^2/NDF : 279857347.4/75

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 : 454210.5/20

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 426923.0/18

Left: 0.005+/-0.000 χ^2/NDF : 887427.8/39

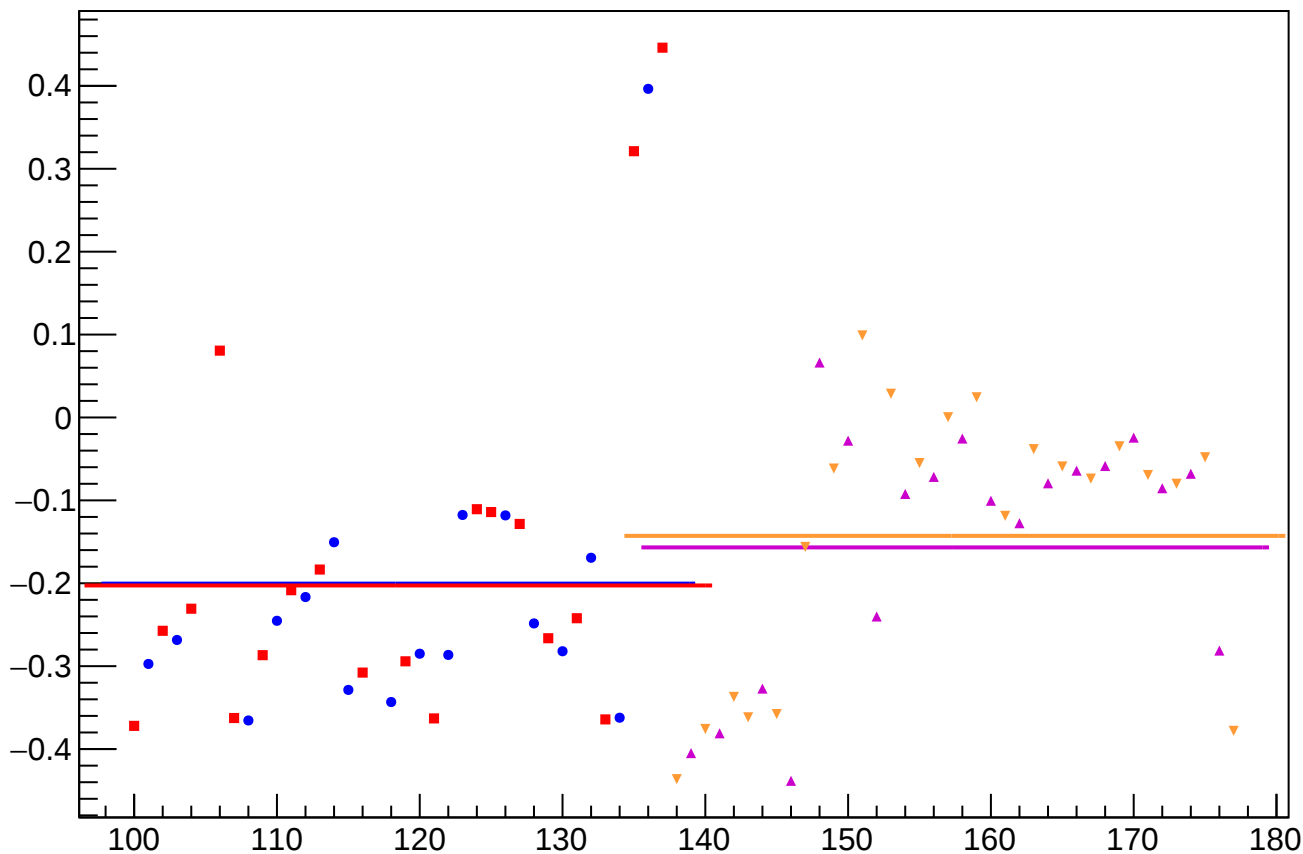
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 713550.7/35

Out: 0.005+/-0.000 χ^2/NDF : 741919.3/39

All: 0.005+/-0.000 χ^2/NDF : 1455935.9/75

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200+/-0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.143+/-0.000 χ^2/NDF : 13460852361.4/20

Right Out: -0.203+/-0.000 χ^2/NDF : 5028268807.1/18

Left In: -0.157+/-0.000 χ^2/NDF : 9521391655.9/18

Left: -0.149+/-0.000 χ^2/NDF : 23029881158.9/39

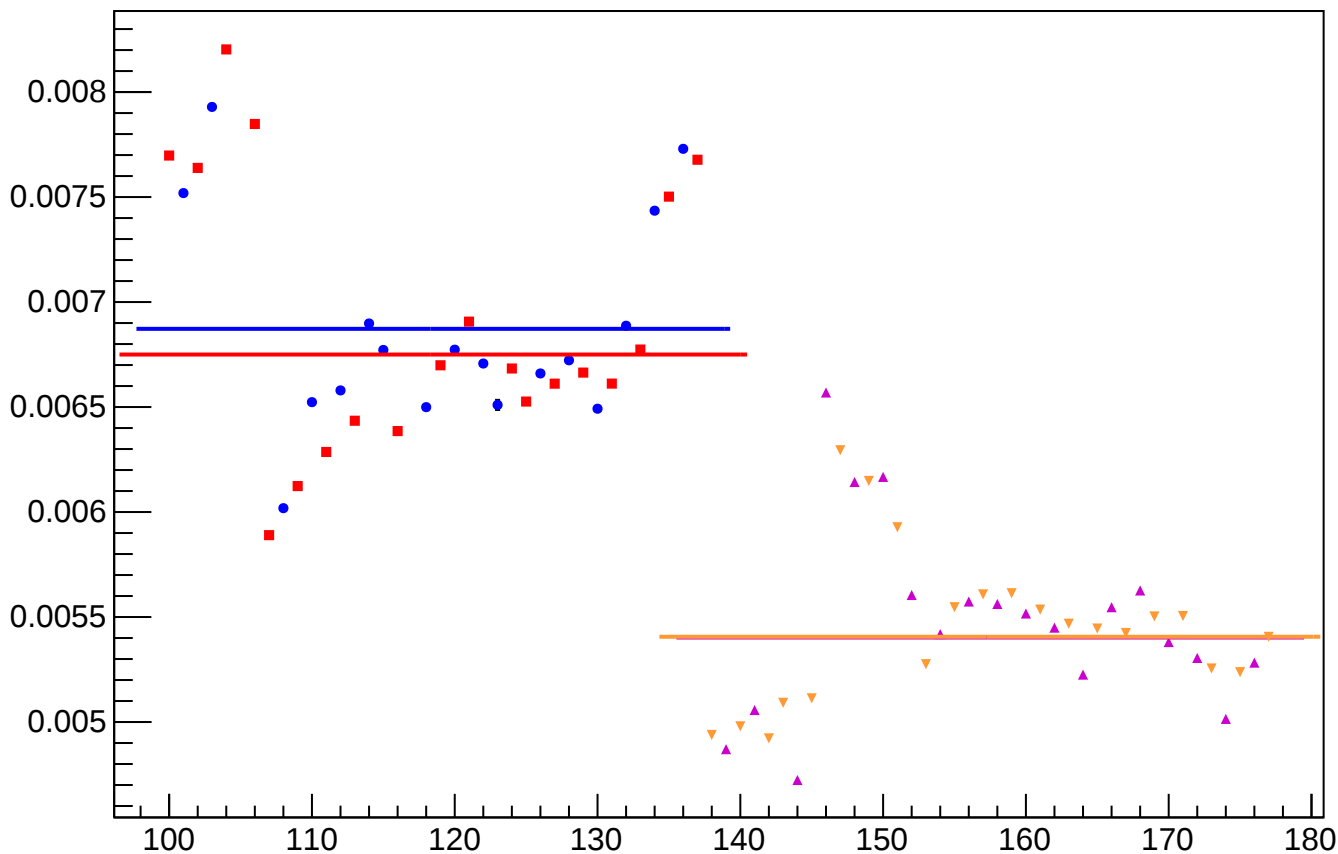
Right: -0.202+/-0.000 χ^2/NDF : 11002181720.9/35

In: -0.167+/-0.000 χ^2/NDF : 15699970729.4/35

Out: -0.156+/-0.000 χ^2/NDF : 18906441597.9/39

All: -0.161+/-0.000 χ^2/NDF : 34639690083.5

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 : 109547.4/20

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF : 159594.4/18

Left: 0.005+/-0.000 χ^2/NDF : 269148.4/39

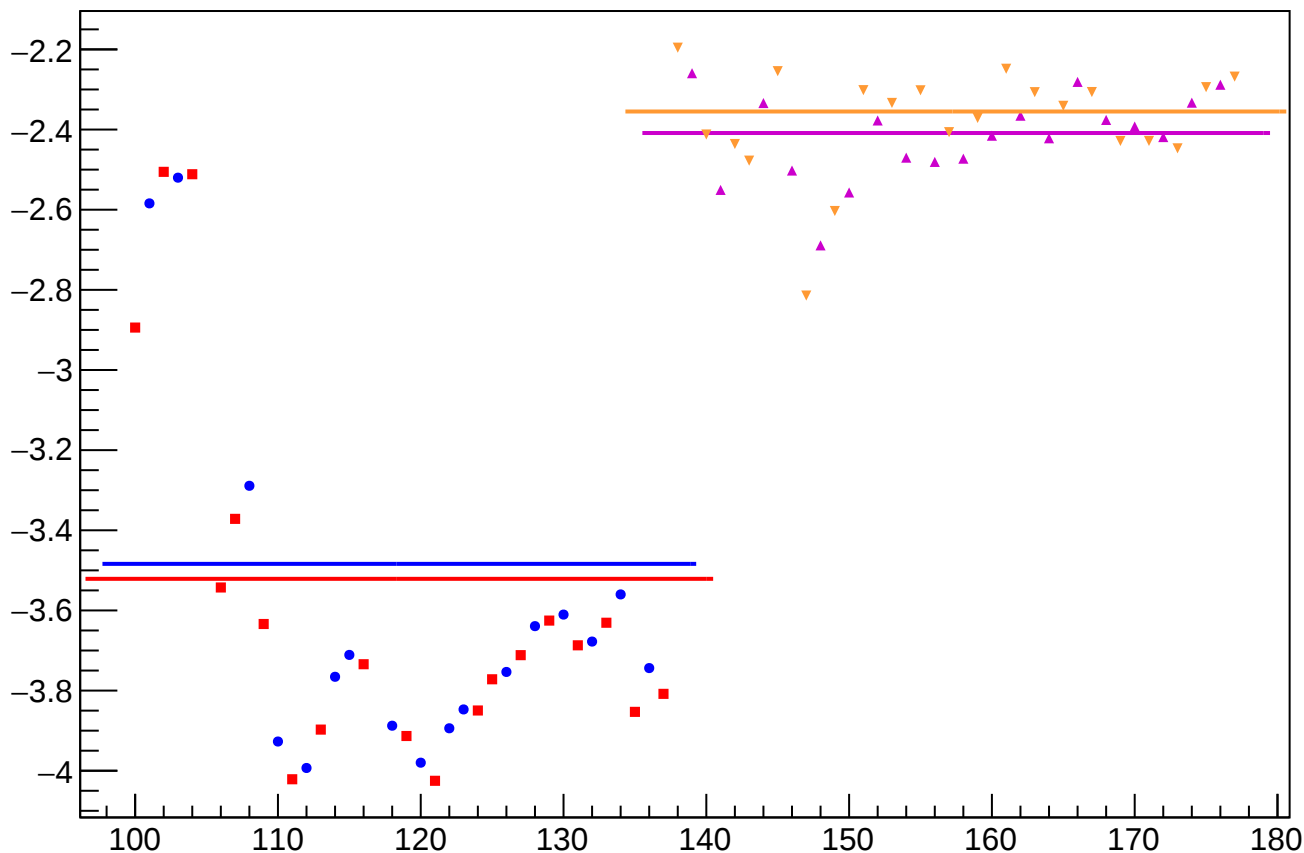
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF : 702230.7/35

Out: 0.006+/-0.000 χ^2/NDF : 635619.7/39

All: 0.006+/-0.000 χ^2/NDF : 1338228.5/75

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.355+/-0.000 χ^2/NDF : 2015019581.6/20

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.409+/-0.000 χ^2/NDF : 1382955679.9/18

Left: -2.381+/-0.000 χ^2/NDF : 3671041667.3/39

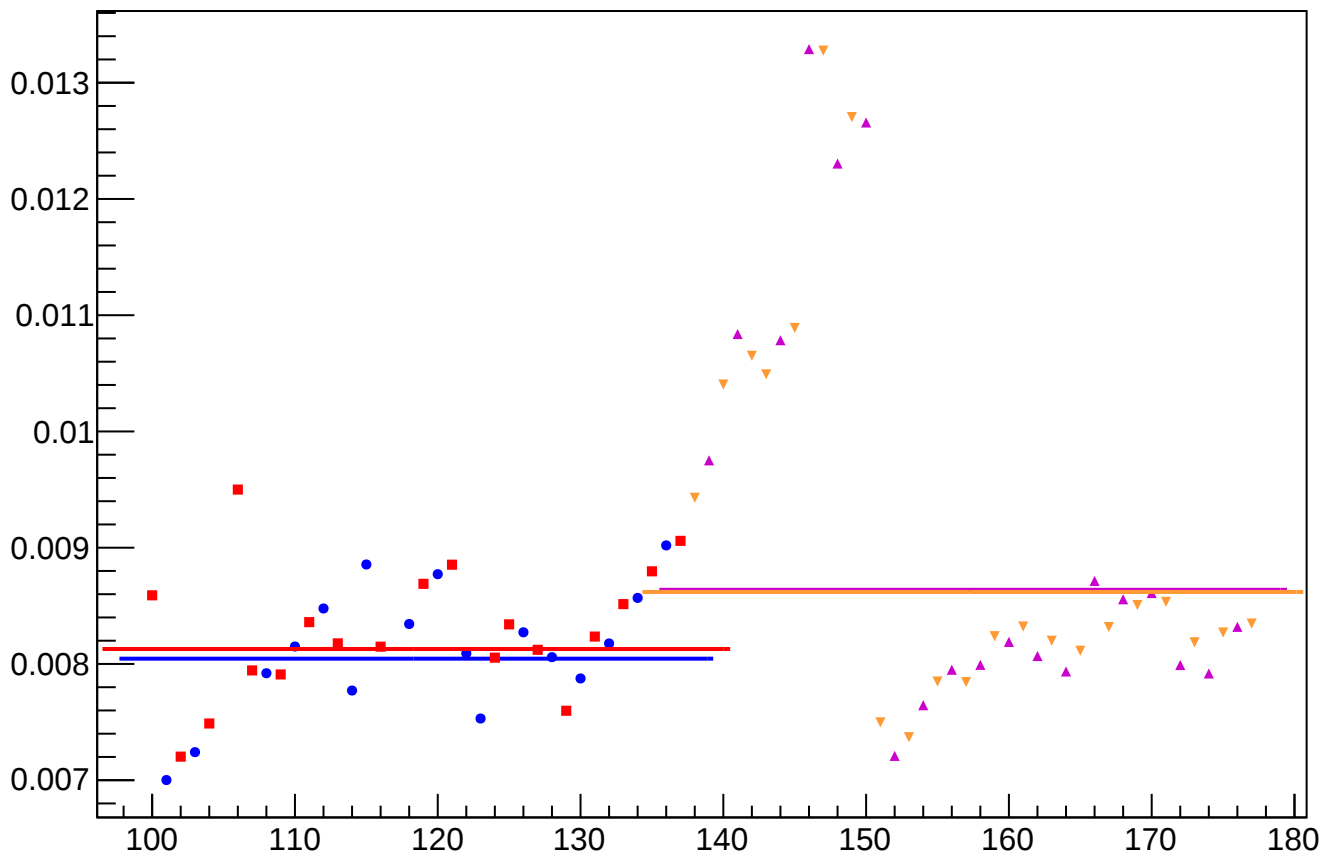
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.791+/-0.000 χ^2/NDF : 103439367489.0/35

Out: -2.753+/-0.000 χ^2/NDF : 120290069737.1/39

All: -2.772+/-0.000 χ^2/NDF : 223937607583.9

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 : 604831.2/20

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 728526.3/18

Left: 0.009+/-0.000 χ^2/NDF : 1333423.2/39

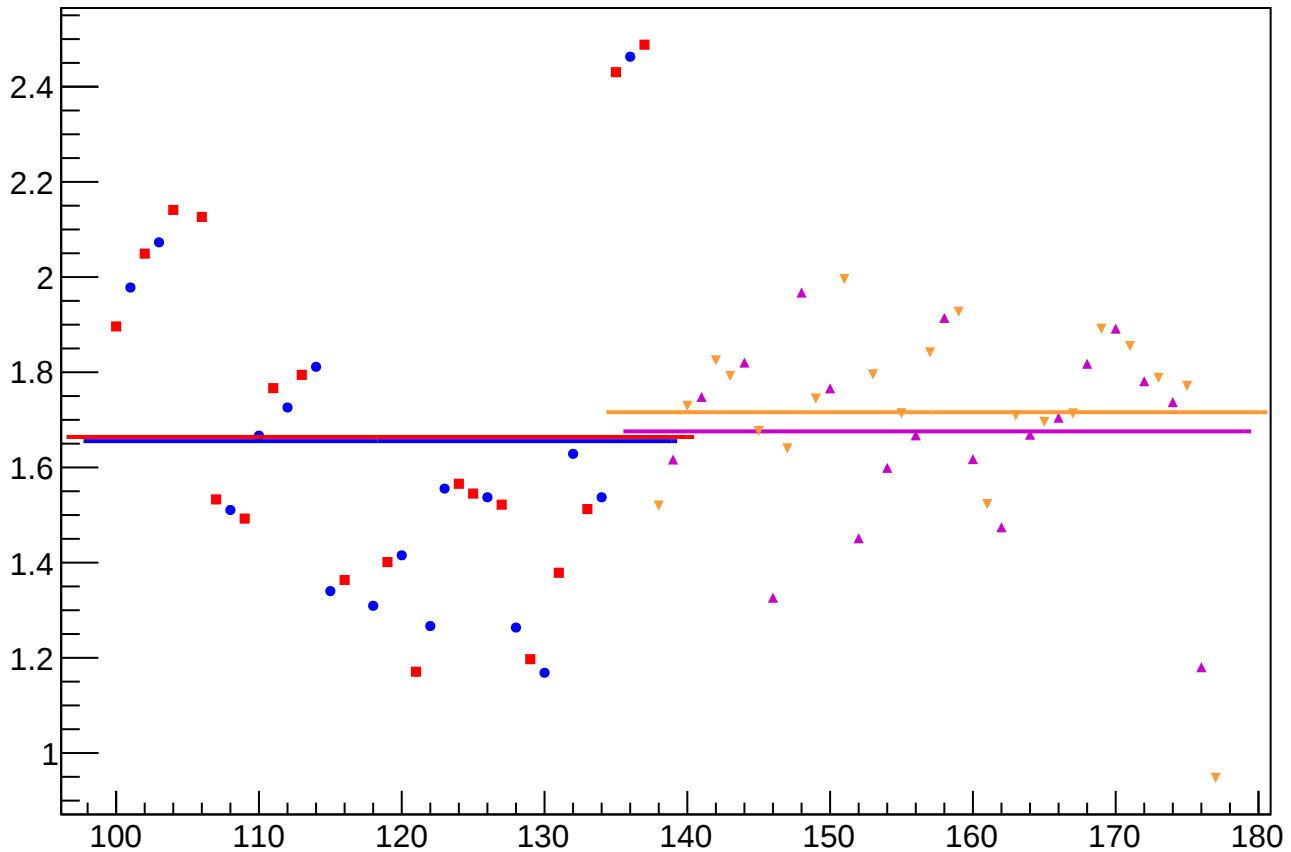
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 846010.5/35

Out: 0.008+/-0.000 χ^2/NDF : 694801.9/39

All: 0.008+/-0.000 χ^2/NDF : 1540988.7/75

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.716+/-0.000 χ^2/NDF : 6547833419.8/20

Right Out: 1.664+/-0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.676+/-0.000 χ^2/NDF : 4794884713.0/18

Left: 1.697+/-0.000 χ^2/NDF : 11449309914.0/39

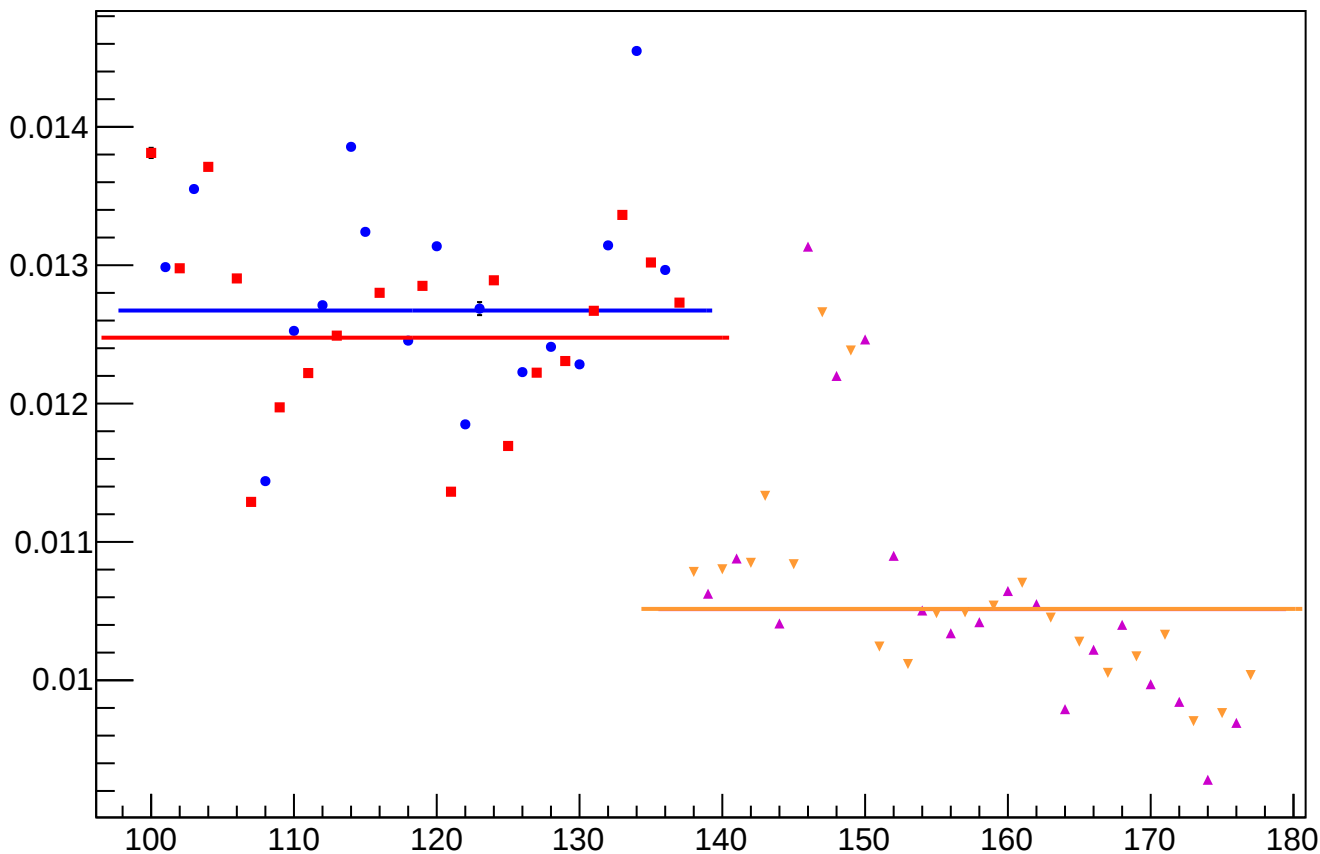
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.671+/-0.000 χ^2/NDF : 11284383005.5/35

Out: 1.703+/-0.000 χ^2/NDF : 12582470631.7/39

All: 1.688+/-0.000 χ^2/NDF : 23959265387.0/71

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 :119460.0/20

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF :181666.6/18

Left: 0.011+/-0.000 χ^2/NDF : 301126.9/39

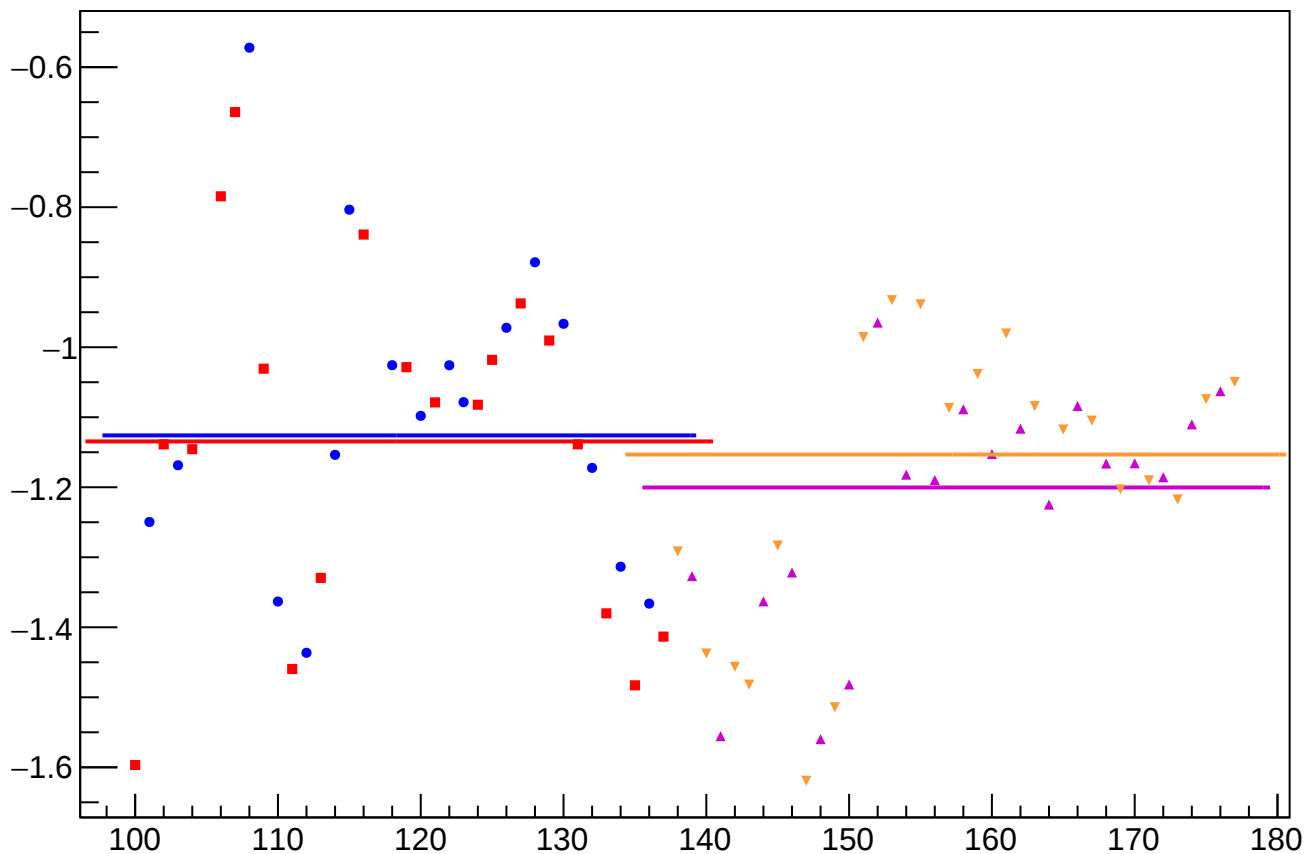
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :500999.2/35

Out: 0.011+/-0.000 χ^2/NDF :415636.3/39

All: 0.011+/-0.000 χ^2/NDF : 917023.0/75

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.153+/-0.000 χ^2/NDF : 7471714695.9/20

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.200+/-0.000 χ^2/NDF : 4986969150.3/18

Left: -1.176+/-0.000 χ^2/NDF : 12713984088.2/39

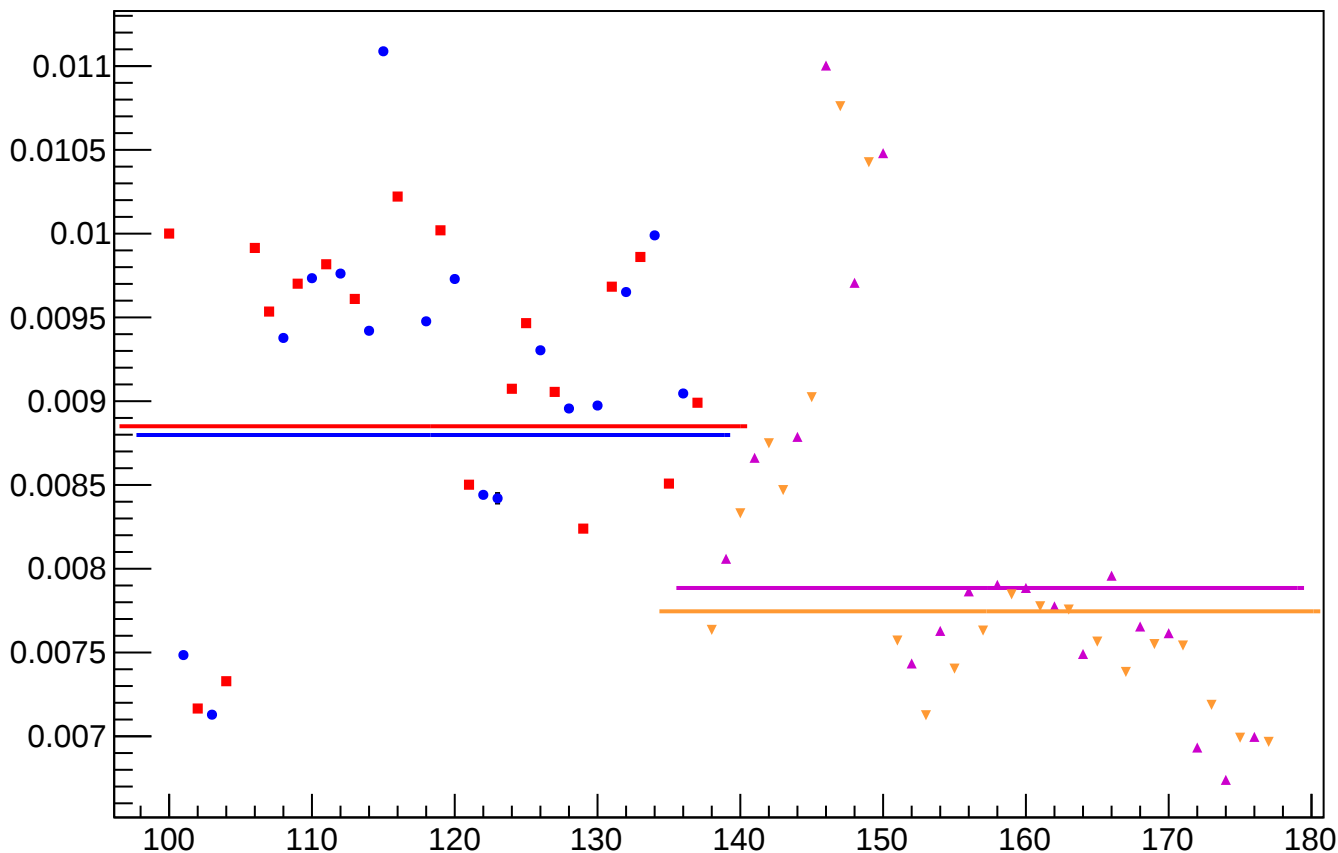
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.180+/-0.000 χ^2/NDF : 8892859740.2/35

Out: -1.148+/-0.000 χ^2/NDF : 11171120309.8/39

All: -1.164+/-0.000 χ^2/NDF : 20220260649.5/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008+/-0.000 χ^2/NDF : 309140.1/20

Right Out: 0.009+/-0.000 χ^2/NDF : 173958.0/18

Left In: 0.008+/-0.000 χ^2/NDF : 373224.1/18

Left: 0.008+/-0.000 χ^2/NDF : 686832.3/39

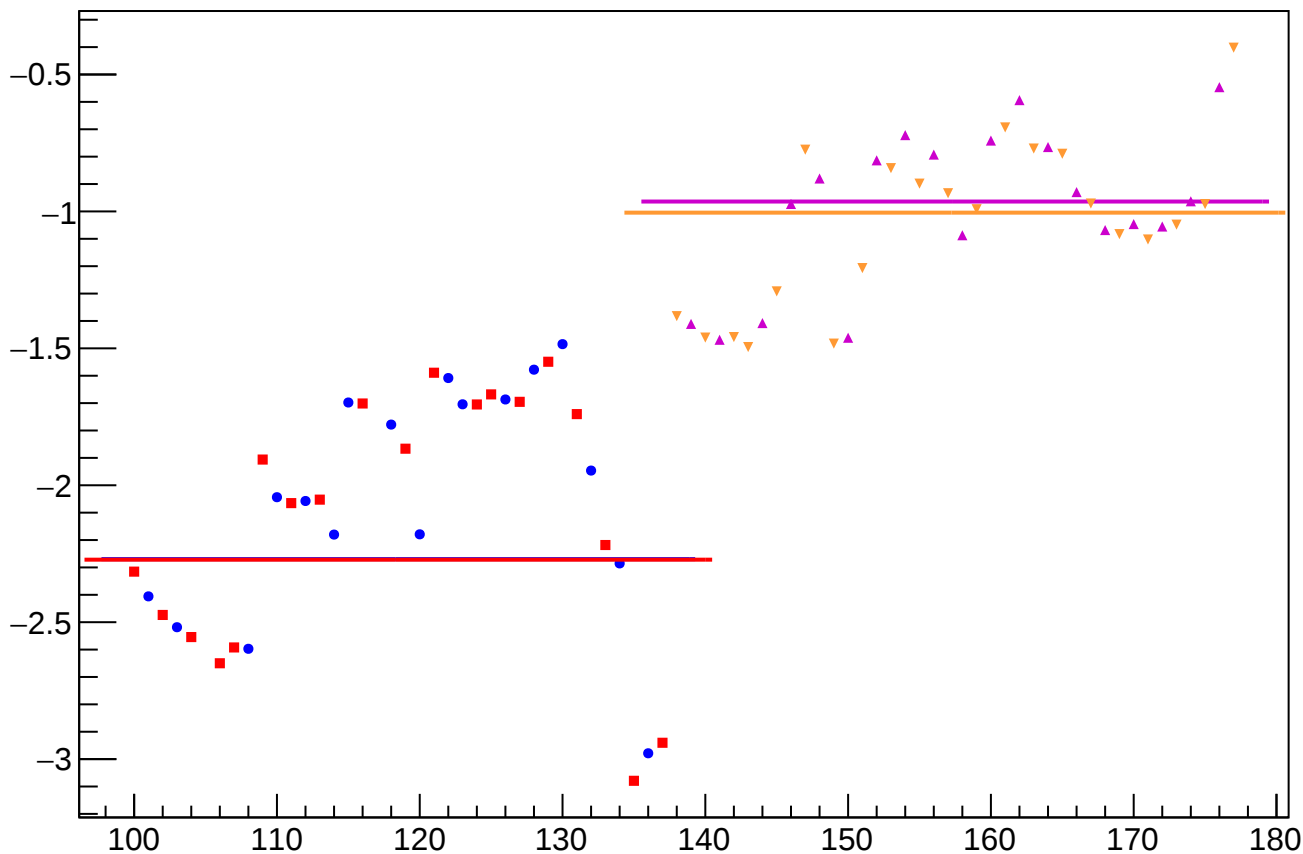
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF : 624599.8/35

Out: 0.008+/-0.000 χ^2/NDF : 636078.8/39

All: 0.008+/-0.000 χ^2/NDF : 1264093.4/75

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.004+/-0.000 χ^2/NDF : 27509514312.7/20

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.964+/-0.000 χ^2/NDF : 22978486757.4/18

Left: -0.985+/-0.000 χ^2/NDF : 50786382537.4/39

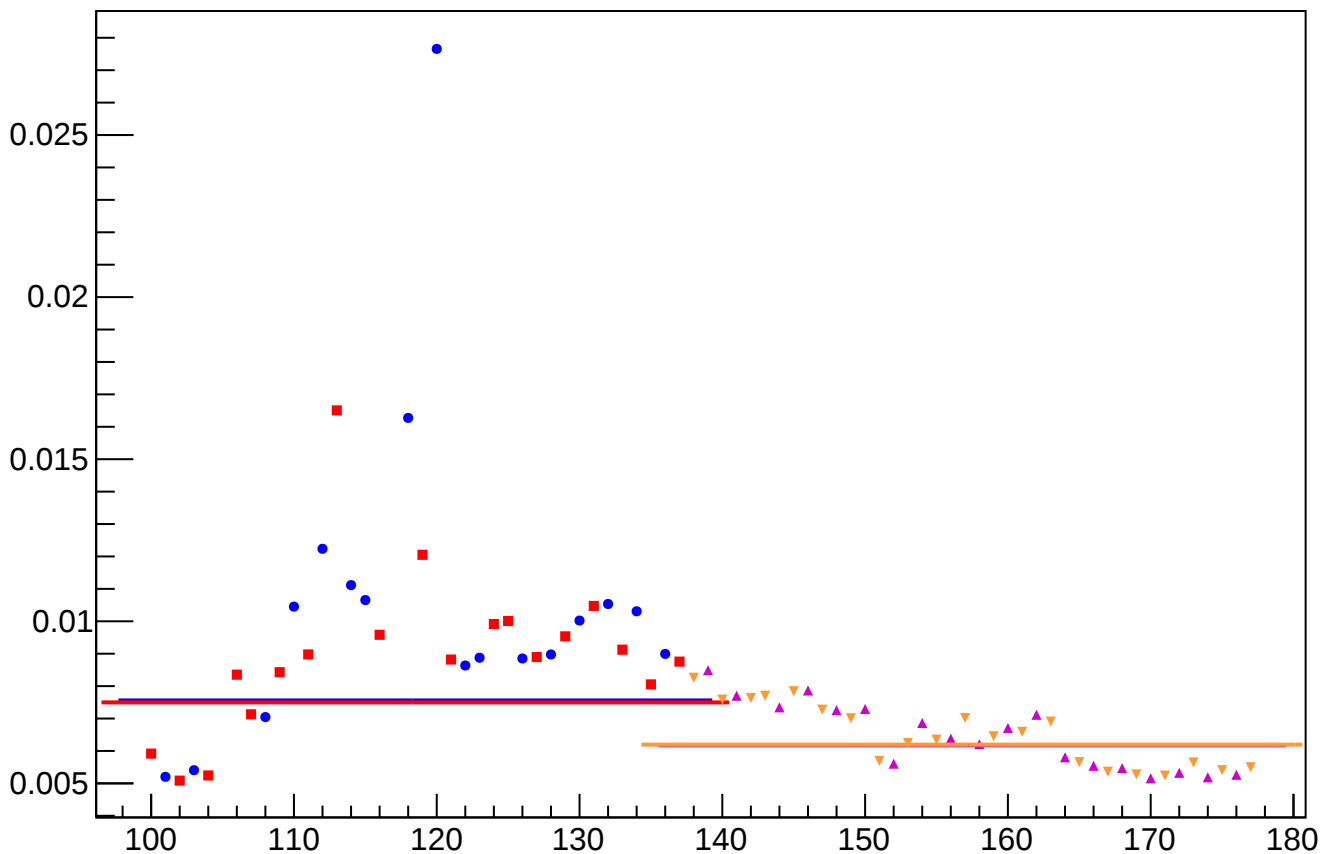
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.225+/-0.000 χ^2/NDF : 160534839364.3/35

Out: -1.271+/-0.000 χ^2/NDF : 172755602618.1/39

All: -1.249+/-0.000 χ^2/NDF : 333773056615.2

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 : 587035.5/20

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 639632.0/18

Left: 0.006+/-0.000 χ^2/NDF : 1226847.3/39

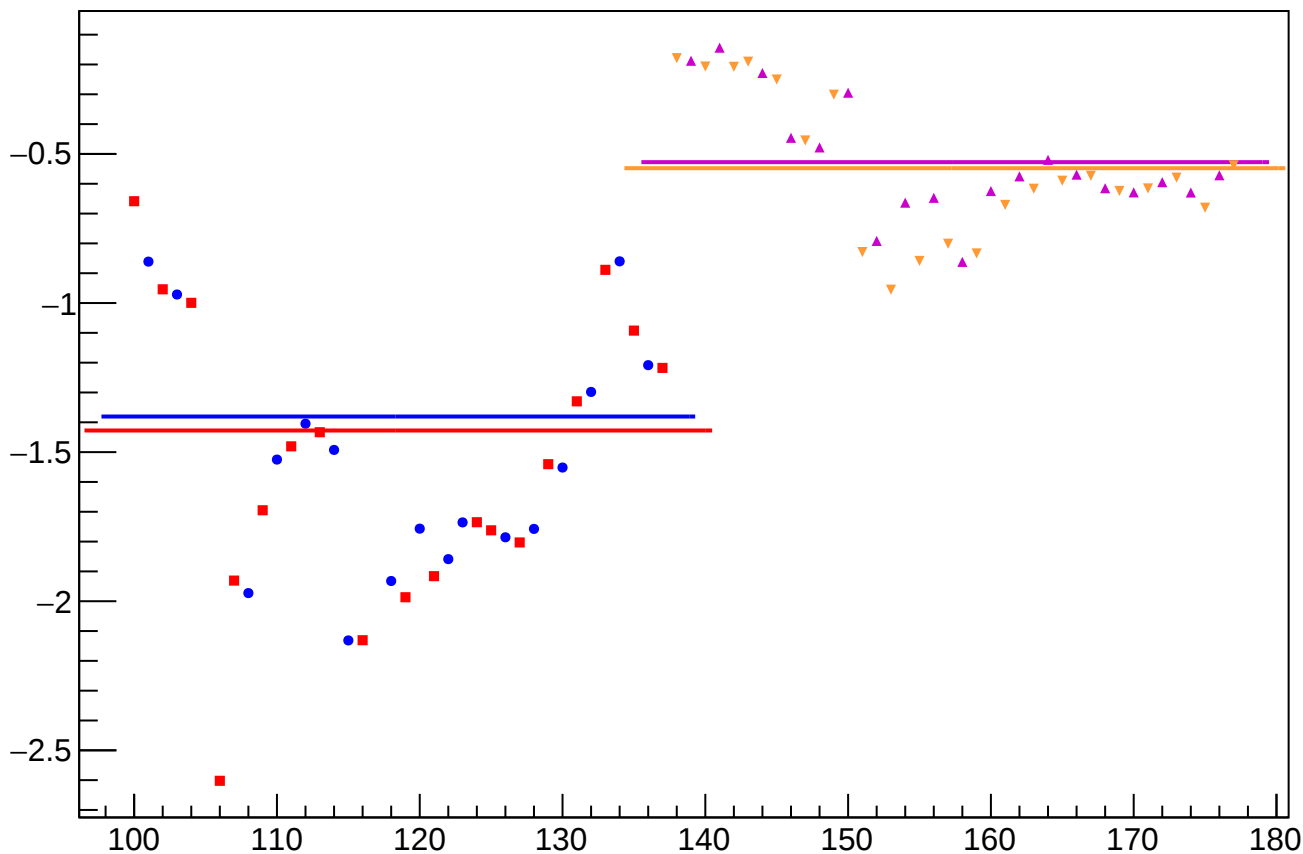
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.006+/-0.000 χ^2/NDF : 2131009.2/35

Out: 0.006+/-0.000 χ^2/NDF : 1788044.2/39

All: 0.006+/-0.000 χ^2/NDF : 3919225.1/75

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.538+/-0.000

χ^2/NDF : 76830844465.8/39

Left Out: -0.548+/-0.000

χ^2/NDF : 46180383075.1/20

Right: -1.406+/-0.000

χ^2/NDF : 49770978716.8/35

Right Out: -1.427+/-0.000

χ^2/NDF : 29616178528.0/18

In: -0.647+/-0.000

χ^2/NDF : 131730210303.6/35

Out: -0.680+/-0.000

χ^2/NDF : 175616561902.5/39

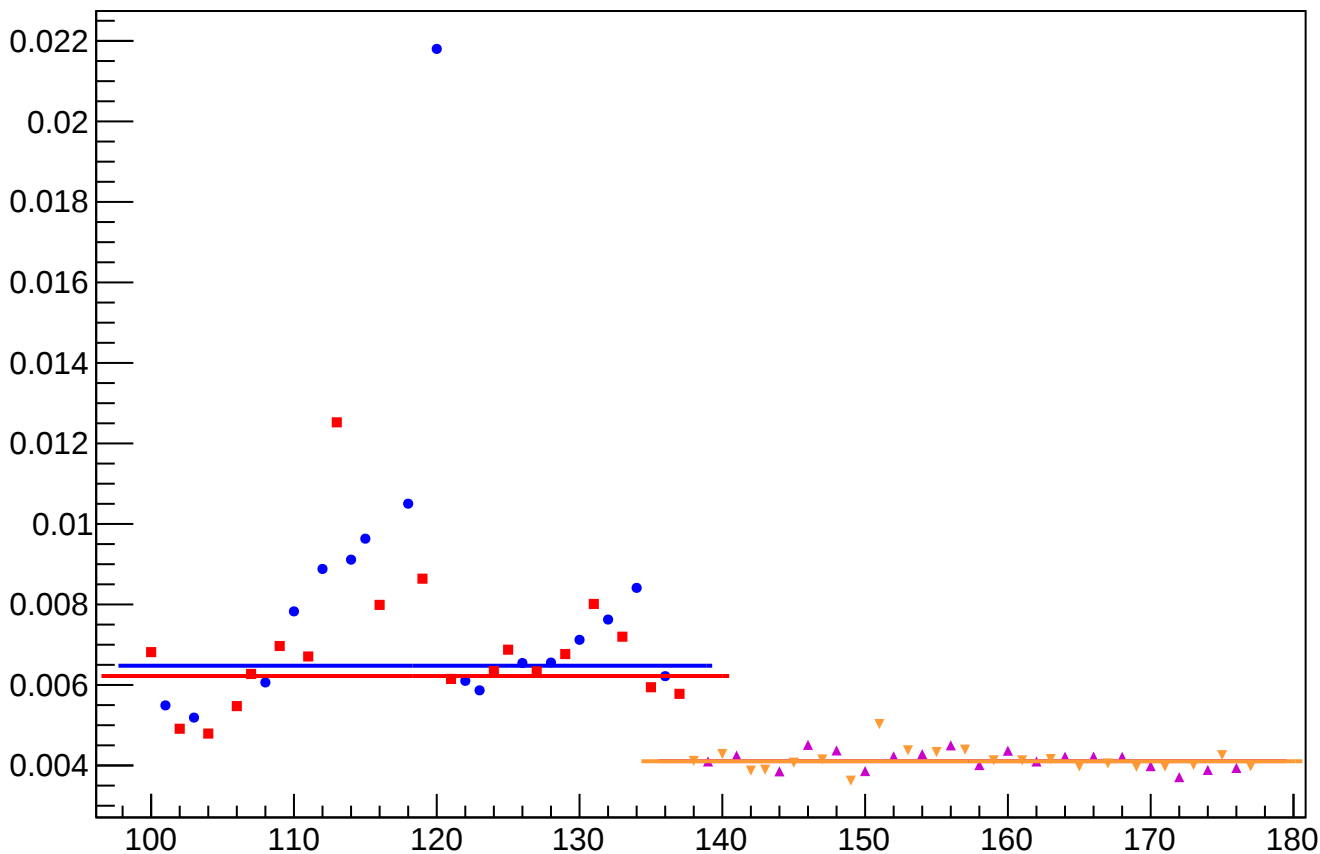
Left In: -0.528+/-0.000

χ^2/NDF : 30479847896.5/18

All: -0.664+/-0.000

χ^2/NDF : 307887959364.9

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 : 98604.8/20

Right Out: 0.006 ± 0.000 χ^2/NDF : 423437.1/18

Left In: 0.004 ± 0.000 χ^2/NDF : 77710.7/18

Left: 0.004 ± 0.000 χ^2/NDF : 176325.5/39

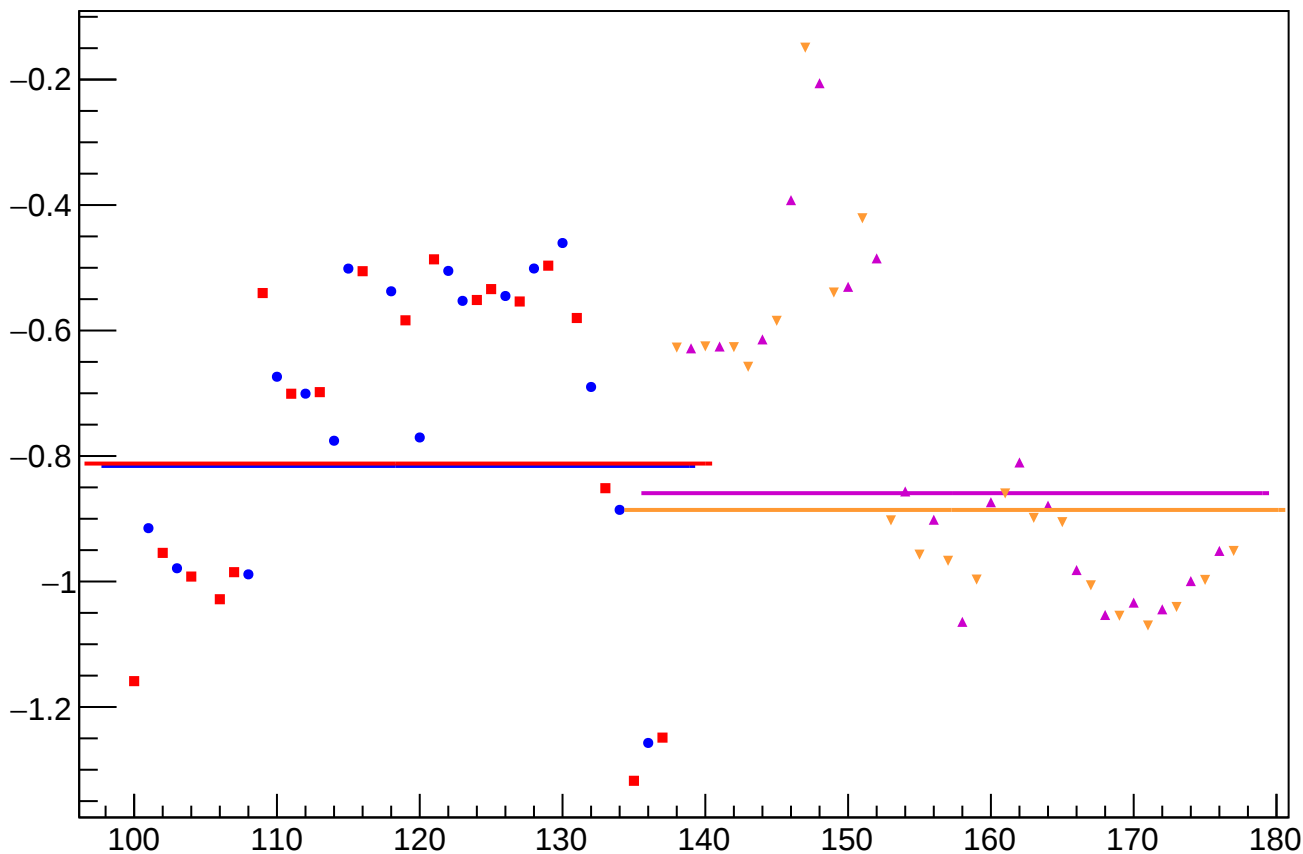
Right: 0.006 ± 0.000 χ^2/NDF : 1005263.6/35

In: 0.004 ± 0.000 χ^2/NDF : 1903801.1/35

Out: 0.004 ± 0.000 χ^2/NDF : 1678504.4/39

All: 0.004 ± 0.000 χ^2/NDF : 3582555.1/75

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 ± 0.000 $\chi^2/\text{NDF}: 14172884795.2/16$

Left Out: -0.886 ± 0.000 $\chi^2/\text{NDF}: 40104611133.1/20$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 16815852448.9/18$

Left In: -0.859 ± 0.000 $\chi^2/\text{NDF}: 43364102016.9/18$

Left: -0.873 ± 0.000 $\chi^2/\text{NDF}: 83806873953.8/39$

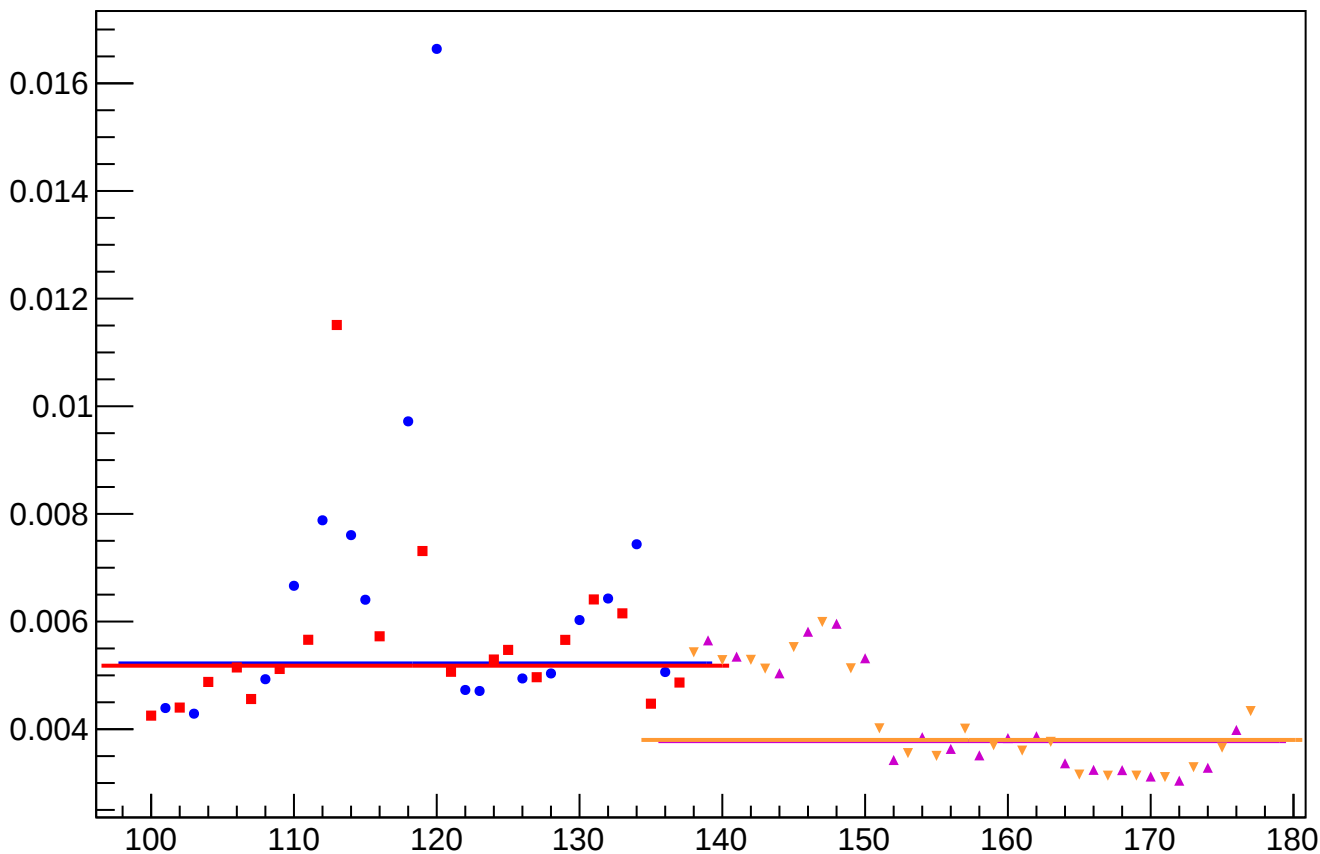
Right: -0.814 ± 0.000 $\chi^2/\text{NDF}: 30990213454.0/35$

In: -0.852 ± 0.000 $\chi^2/\text{NDF}: 57841586143.8/35$

Out: -0.872 ± 0.000 $\chi^2/\text{NDF}: 57905254920.5/39$

All: -0.862 ± 0.000 $\chi^2/\text{NDF}: 115992923153.3$

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 :1148652.9/20

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF :1187663.6/18

Left: 0.004+/-0.000 χ^2/NDF : 2336780.4/39

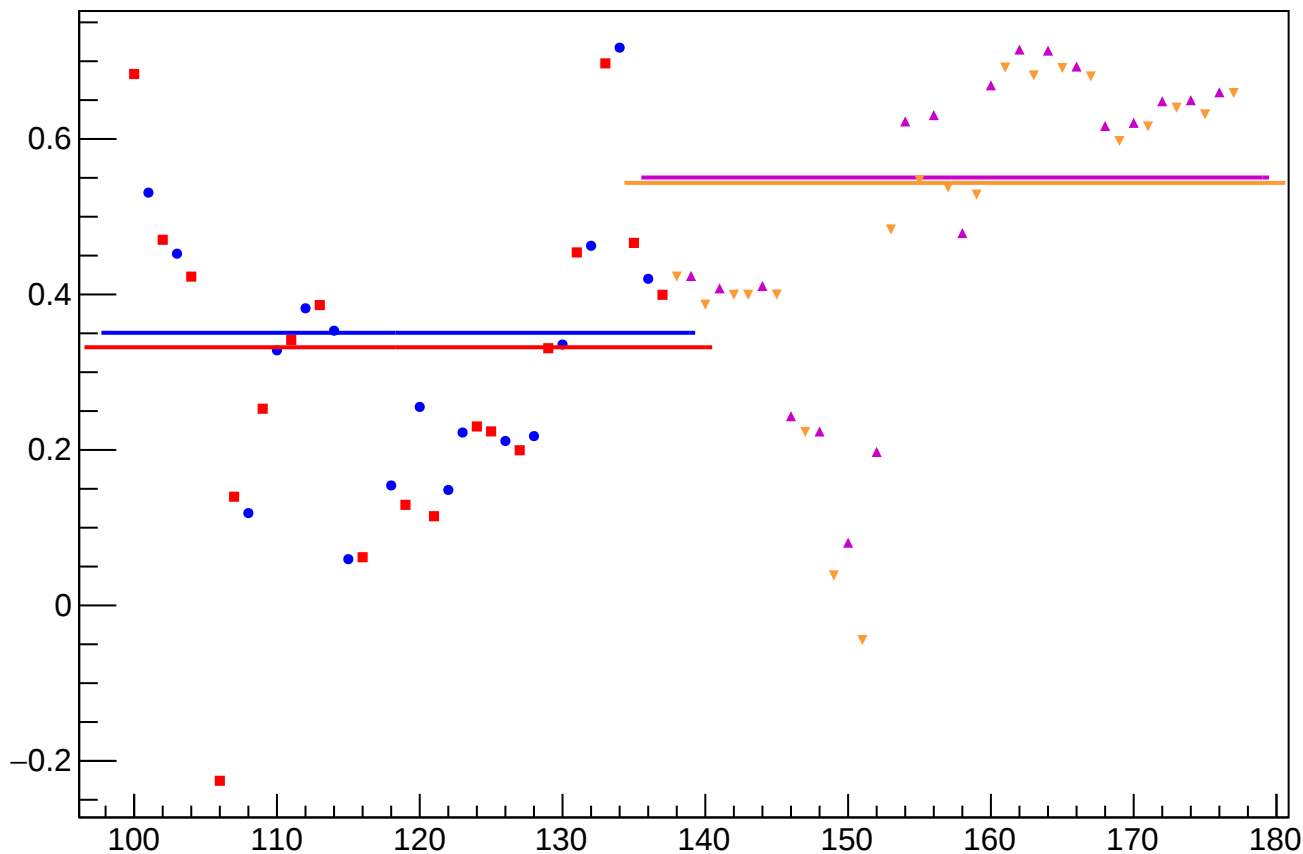
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2525584.8/35

Out: 0.004+/-0.000 χ^2/NDF :2198717.4/39

All: 0.004+/-0.000 χ^2/NDF : 4725006.6/75

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.544+/-0.000 χ^2/NDF : 41729251773.5/20

Right Out: 0.332+/-0.000 χ^2/NDF : 11796213425.9/18

Left In: 0.550+/-0.000 χ^2/NDF : 39033459950.4/18

Left: 0.547+/-0.000 χ^2/NDF : 80795350815.9/39

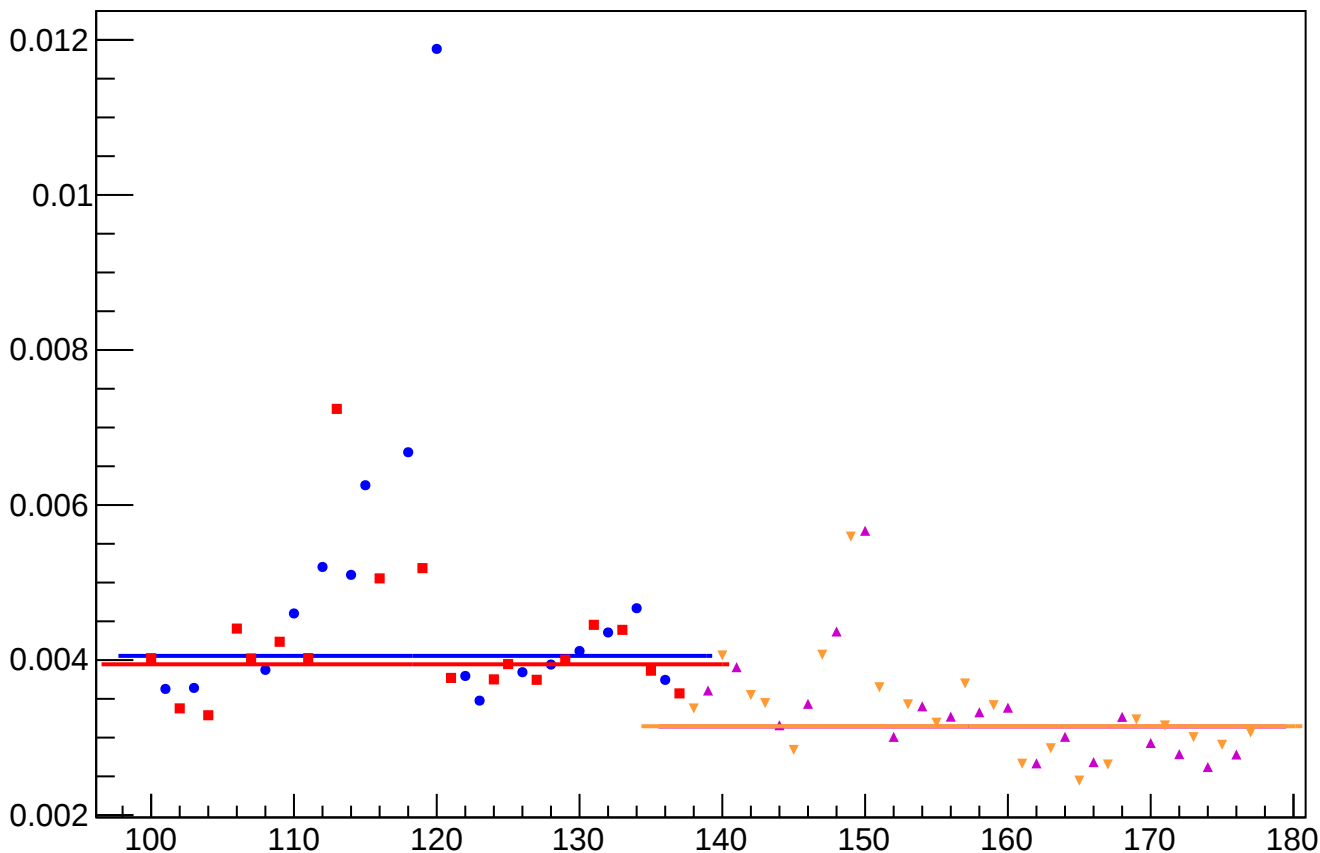
Right: 0.341+/-0.000 χ^2/NDF : 19270918435.8/35

In: 0.509+/-0.000 χ^2/NDF : 57383533278.4/35

Out: 0.497+/-0.000 χ^2/NDF : 67235648991.3/39

All: 0.503+/-0.000 χ^2/NDF : 124735771256.4

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 455318.3/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 726446.8/20

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 260968.0/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 708619.4/18

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 1435084.9/39

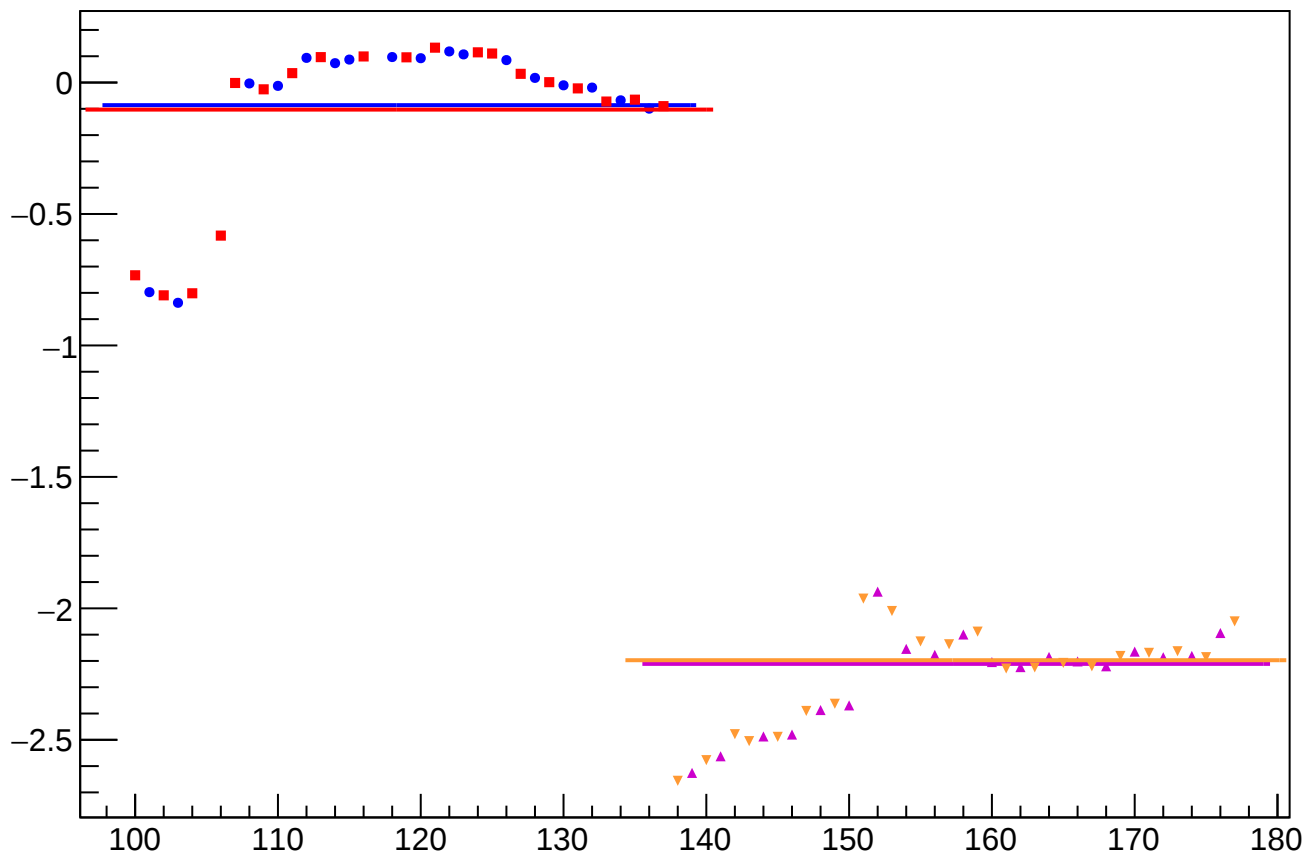
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 720633.0/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1619186.0/35

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 1378903.6/39

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 2998308.1/75

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.197+/-0.000 χ^2/NDF : 3703122505.8/20

Right Out: -0.103+/-0.000 χ^2/NDF : 5553039516.7/18

Left In: -2.211+/-0.000 χ^2/NDF : 2895498307.2/18

Left: -2.204+/-0.000 χ^2/NDF : 6611672136.8/39

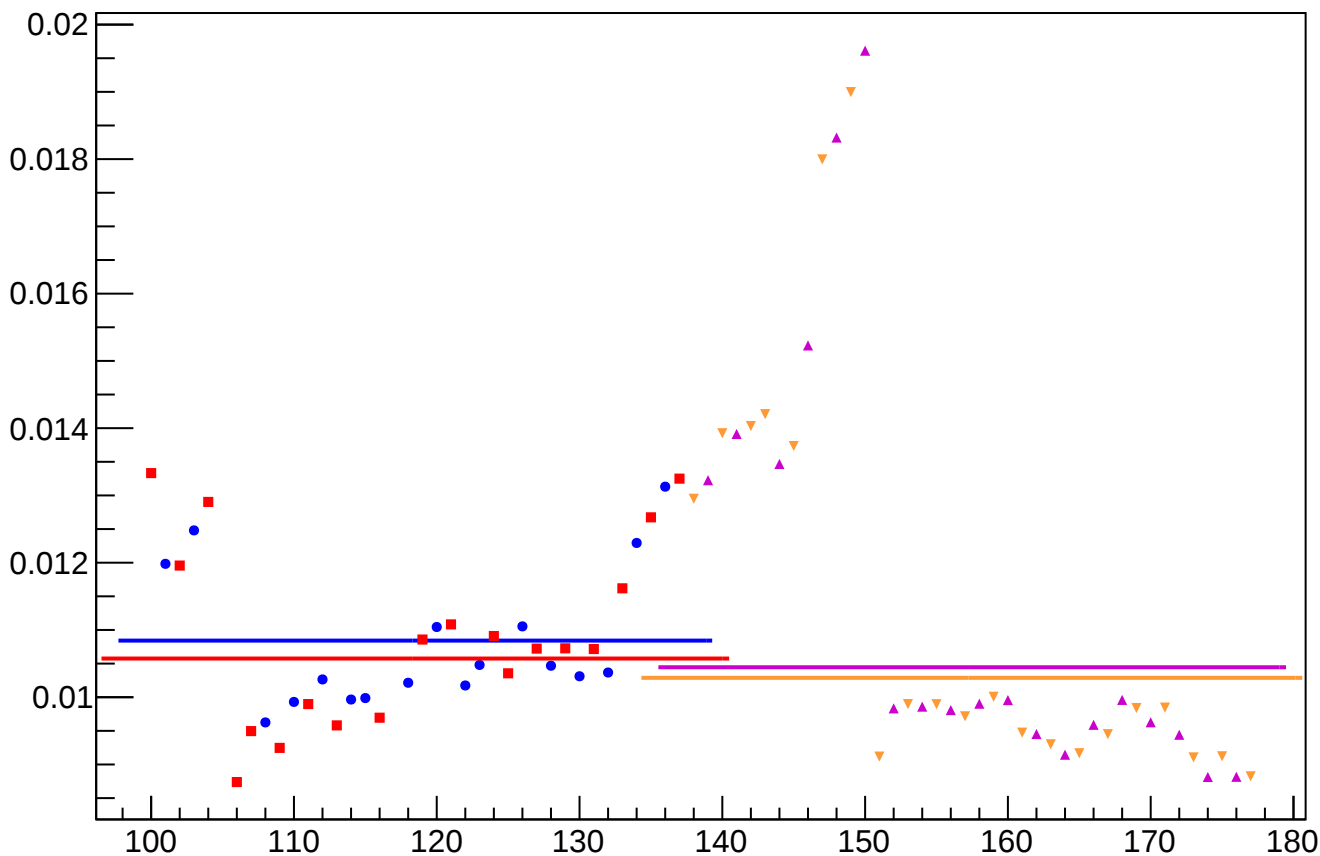
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.559+/-0.000 χ^2/NDF : 184669262984.0/35

Out: -1.557+/-0.000 χ^2/NDF : 200197129924.8/39

All: -1.558+/-0.000 χ^2/NDF : 384866938291.2

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.010+/-0.000 χ^2/NDF :1243749.8/20

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.010+/-0.000 χ^2/NDF :1291358.1/18

Left: 0.010+/-0.000 χ^2/NDF : 2538432.5/39

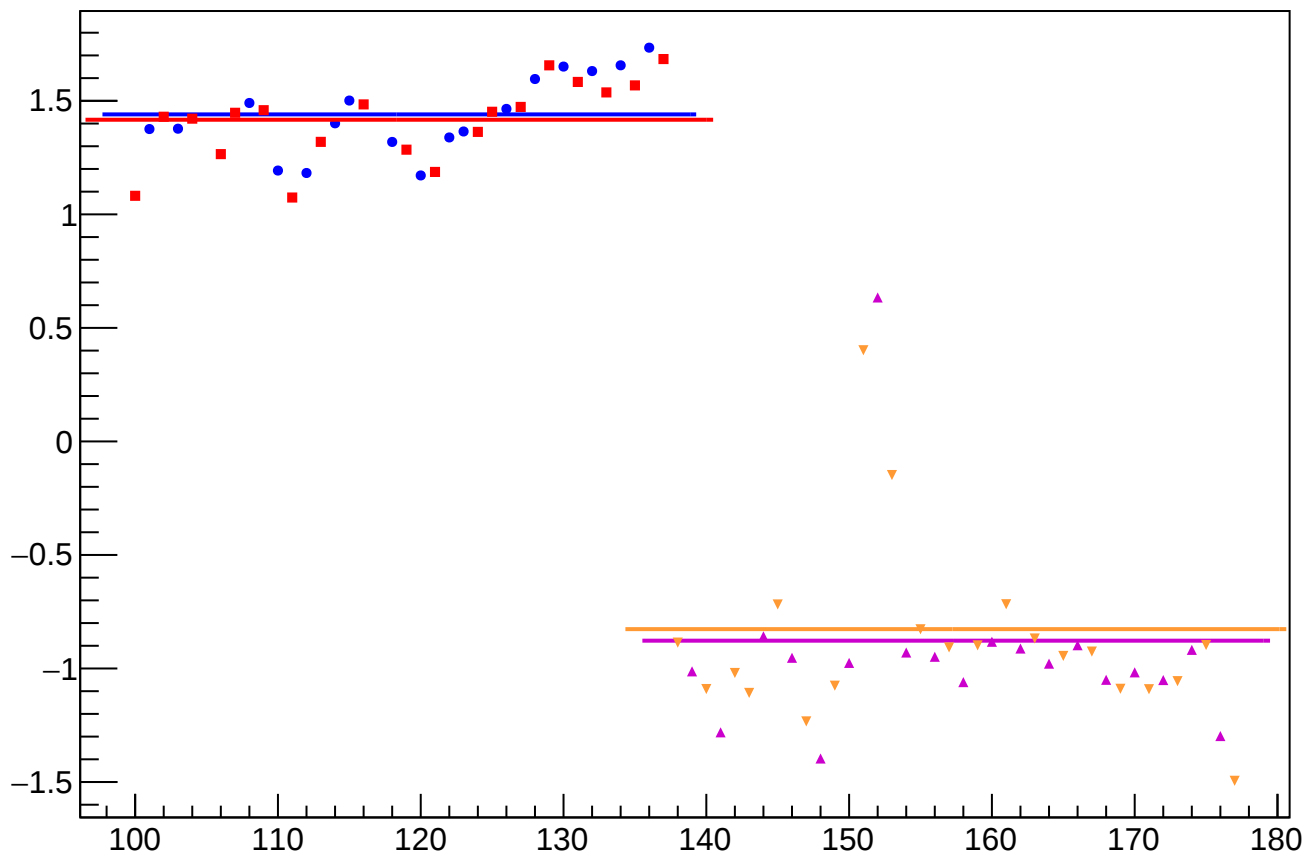
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1427915.1/35

Out: 0.010+/-0.000 χ^2/NDF :1429880.8/39

All: 0.010+/-0.000 χ^2/NDF : 2864876.7/75

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.827 $\pm$ 0.000 χ^2 /NDF: 40727999627.7/20

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674064512.3/18

Left In: -0.878 $\pm$ 0.000 χ^2 /NDF: 43476947243.5/18

Left: -0.851 $\pm$ 0.000 χ^2 /NDF: 84478971891.7/39

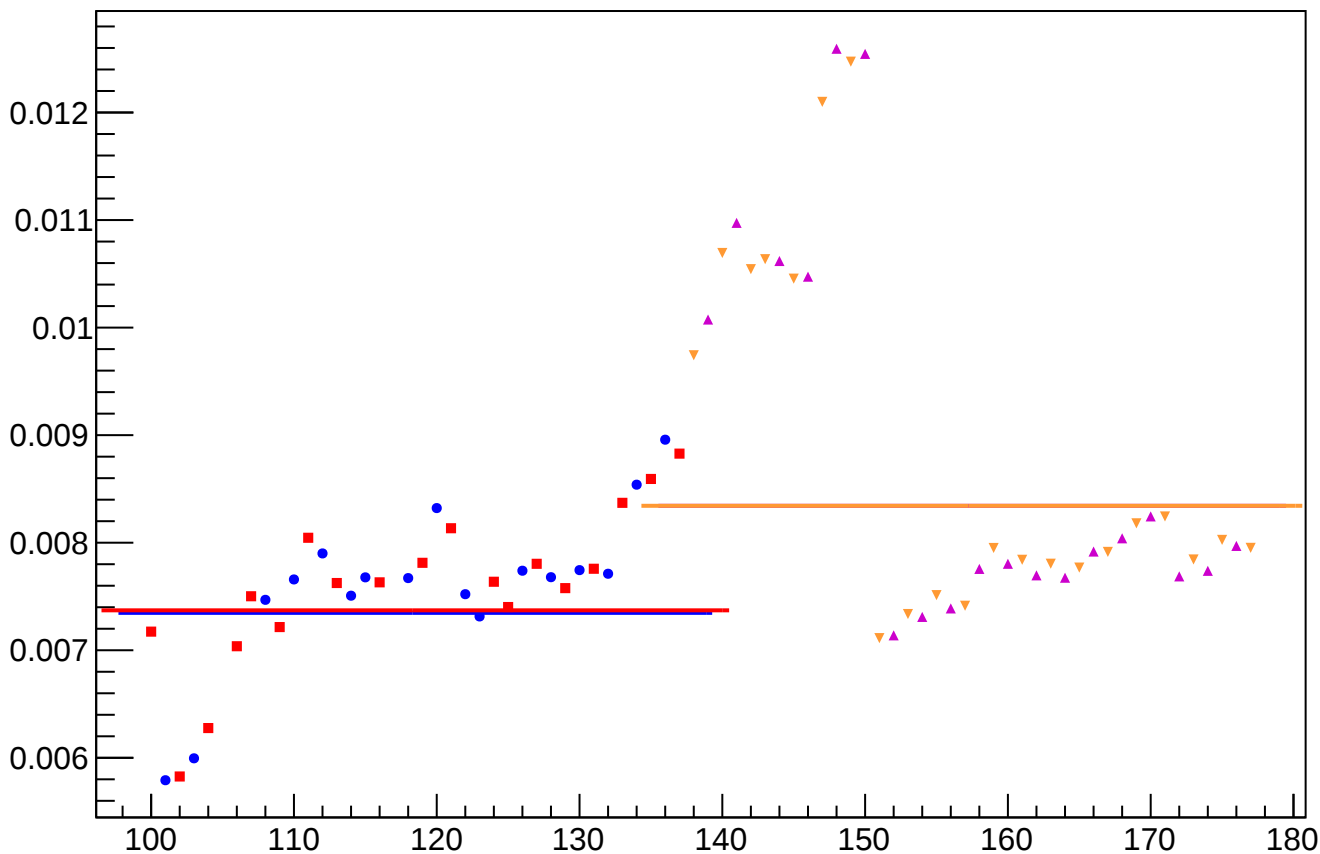
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: -0.009 $\pm$ 0.000 χ^2 /NDF: 456850323722.7/35

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 452970932839.9/39

All: -0.003 $\pm$ 0.000 χ^2 /NDF: 909845038207.8

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 : 756046.8/20

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 829958.8/18

Left: 0.008+/-0.000 χ^2/NDF : 1586005.6/39

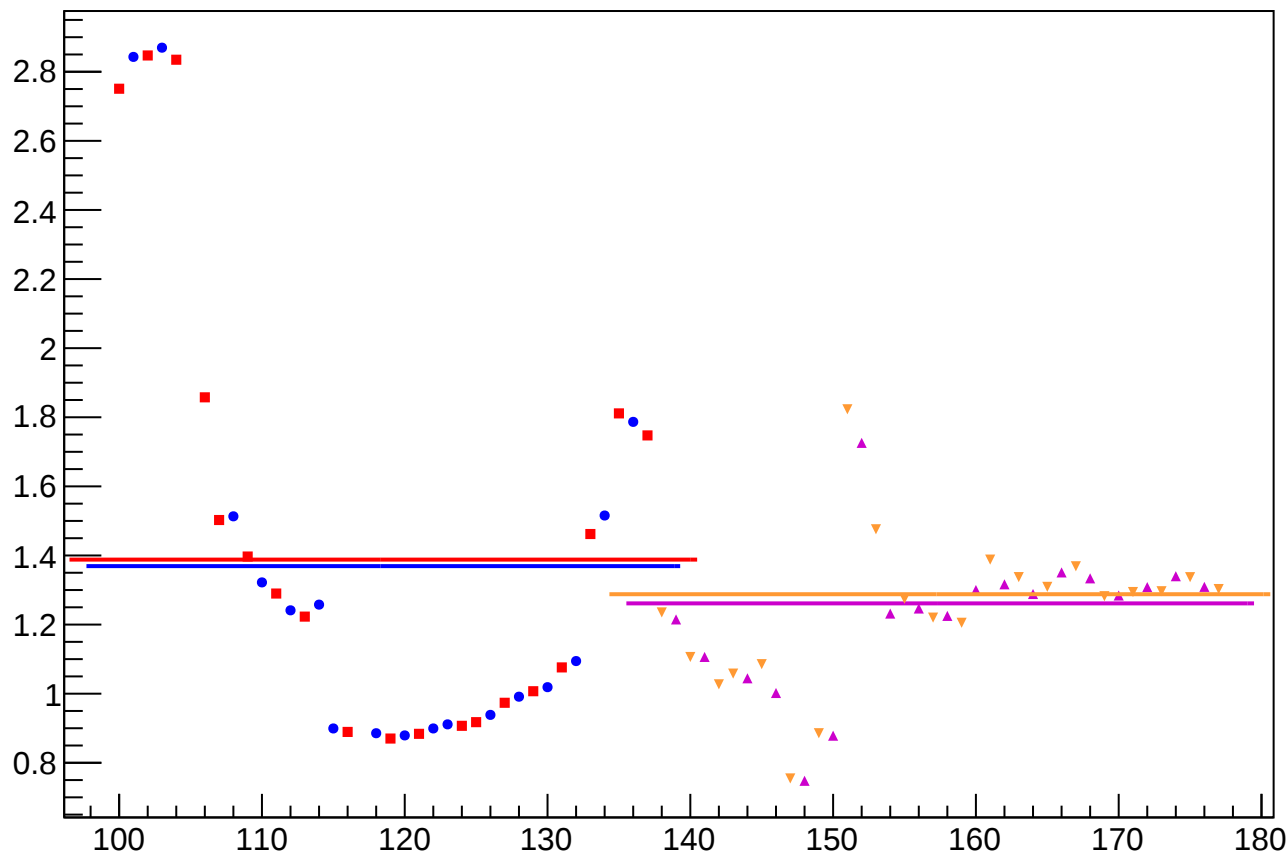
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1209202.1/35

Out: 0.008+/-0.000 χ^2/NDF : 1082497.7/39

All: 0.008+/-0.000 χ^2/NDF : 2291764.2/75

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.288+/-0.000 χ^2/NDF : 9157570955.0/20

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.261+/-0.000 χ^2/NDF : 7402983485.8/18

Left: 1.275+/-0.000 χ^2/NDF : 16637585648.1/39

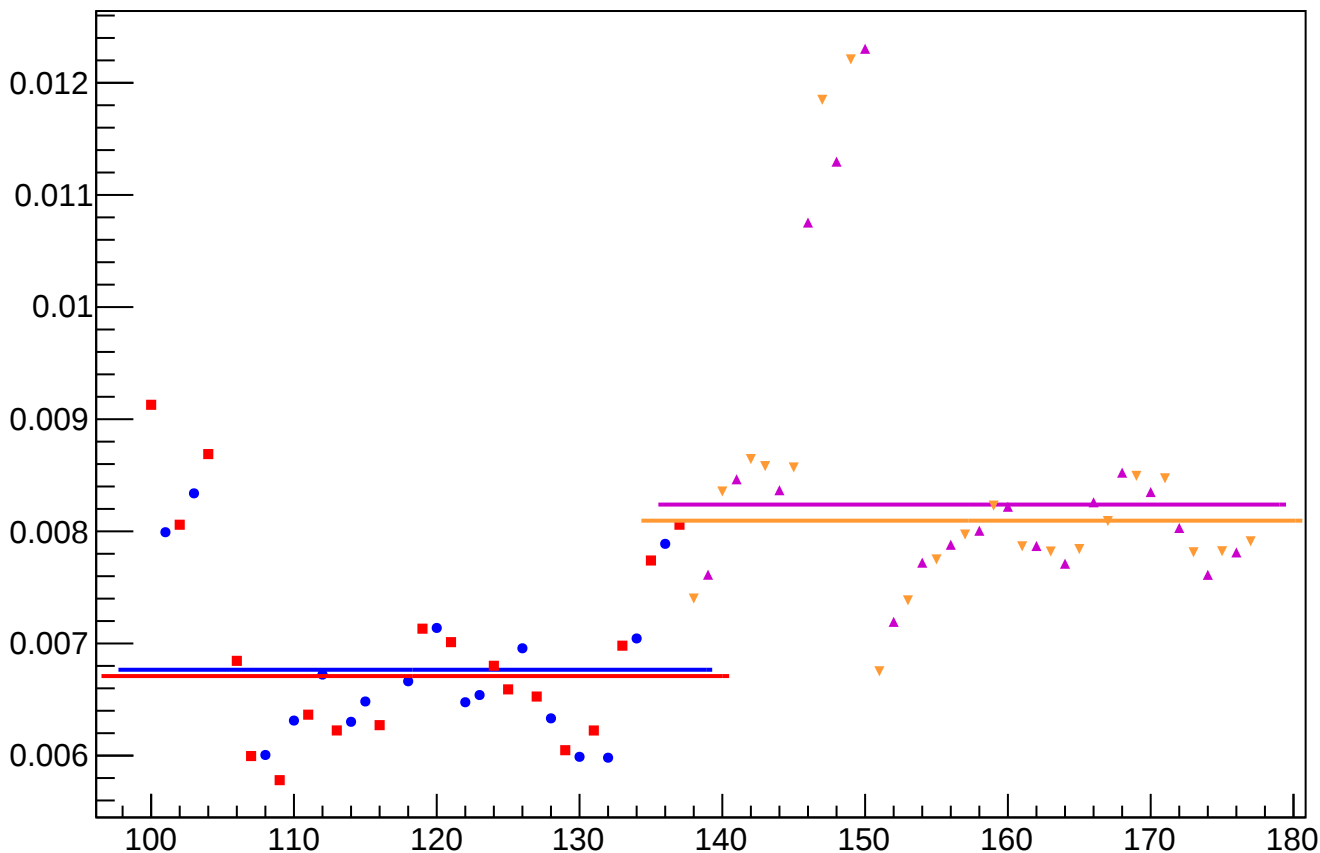
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.306+/-0.000 χ^2/NDF : 62599490268.3/35

Out: 1.328+/-0.000 χ^2/NDF : 59990432701.6/39

All: 1.317+/-0.000 χ^2/NDF : 122683910657.7

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 422439.1/20

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 446852.9/18

Left: 0.008+/-0.000 χ^2/NDF : 873800.2/39

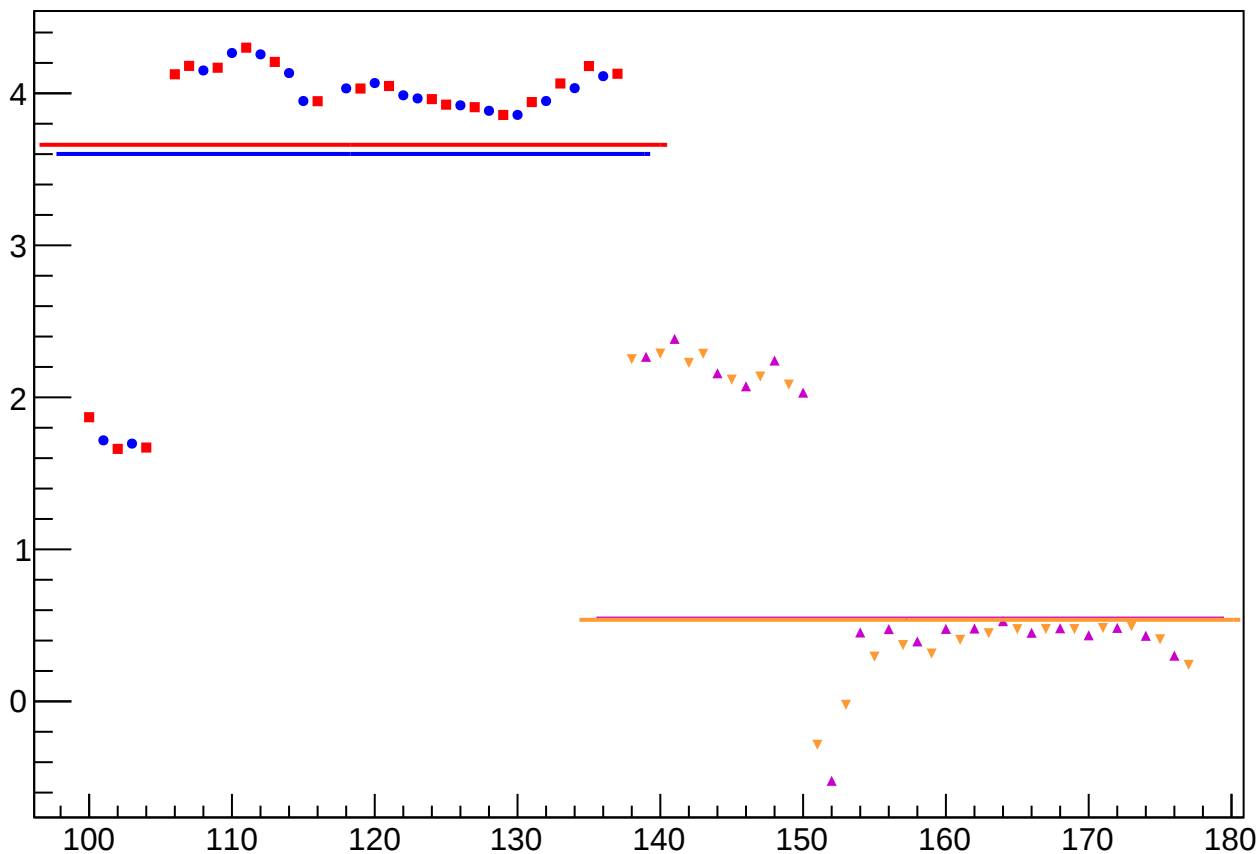
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 976255.6/35

Out: 0.008+/-0.000 χ^2/NDF : 967359.5/39

All: 0.008+/-0.000 χ^2/NDF : 1947059.7/75

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601 $\pm$ 0.000 χ^2 /NDF: 185806937655.3/16

Left Out: 0.537 $\pm$ 0.000 χ^2 /NDF: 263207760764.0/20

Right Out: 3.661 $\pm$ 0.000 χ^2 /NDF: 192519897222.5/18

Left In: 0.545 $\pm$ 0.000 χ^2 /NDF: 258348446591.0/18

Left: 0.541 $\pm$ 0.000 χ^2 /NDF: 521577158406.3/39

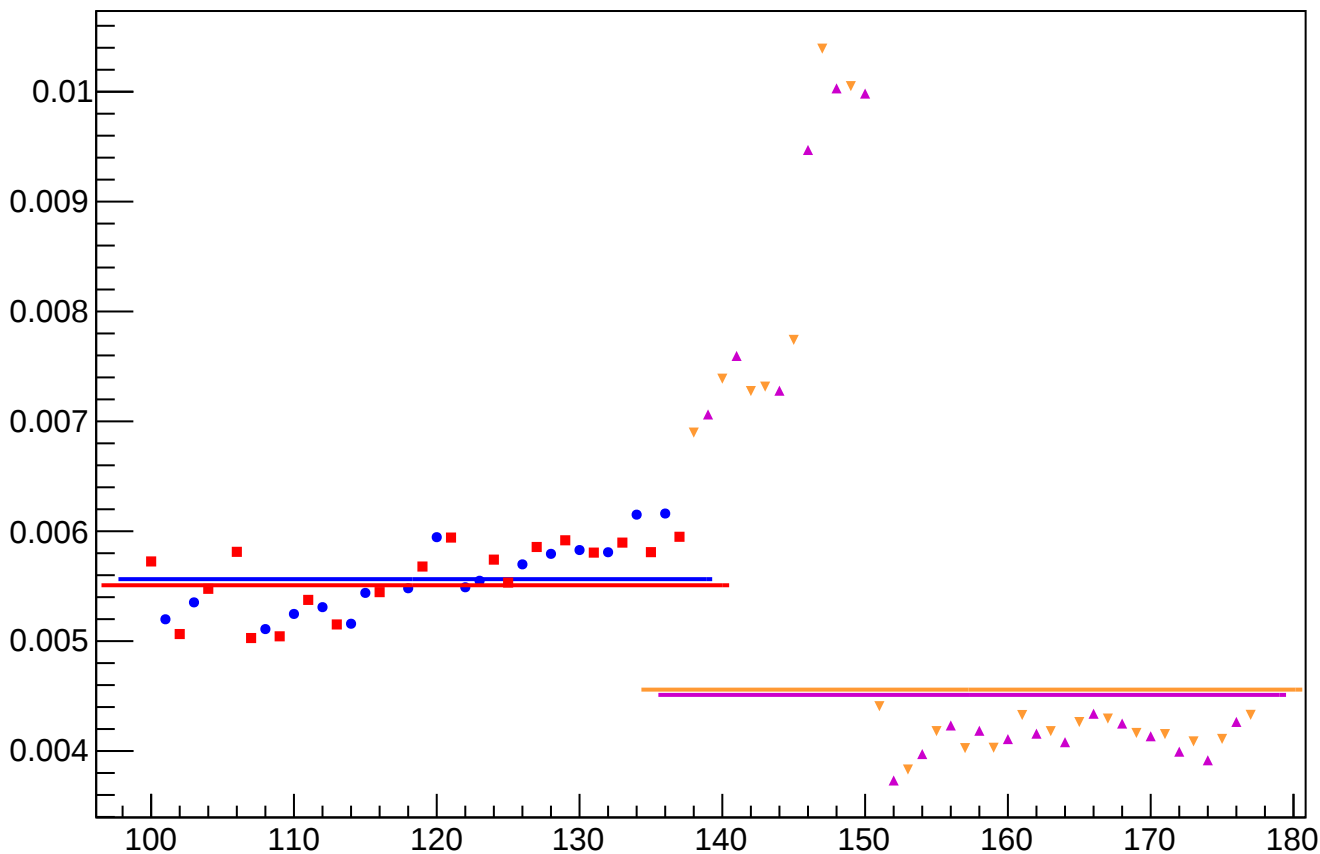
Right: 3.632 $\pm$ 0.000 χ^2 /NDF: 378731188267.1/35

In: 1.314 $\pm$ 0.000 χ^2 /NDF: 1953566140829.4/35

Out: 1.323 $\pm$ 0.000 χ^2 /NDF: 2130439716066.0/39

All: 1.319 $\pm$ 0.000 χ^2 /NDF: 4084045283753.0/78

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 : 2021000.7/20

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 2221786.9/18

Left: 0.005+/-0.000 χ^2/NDF : 4244307.7/39

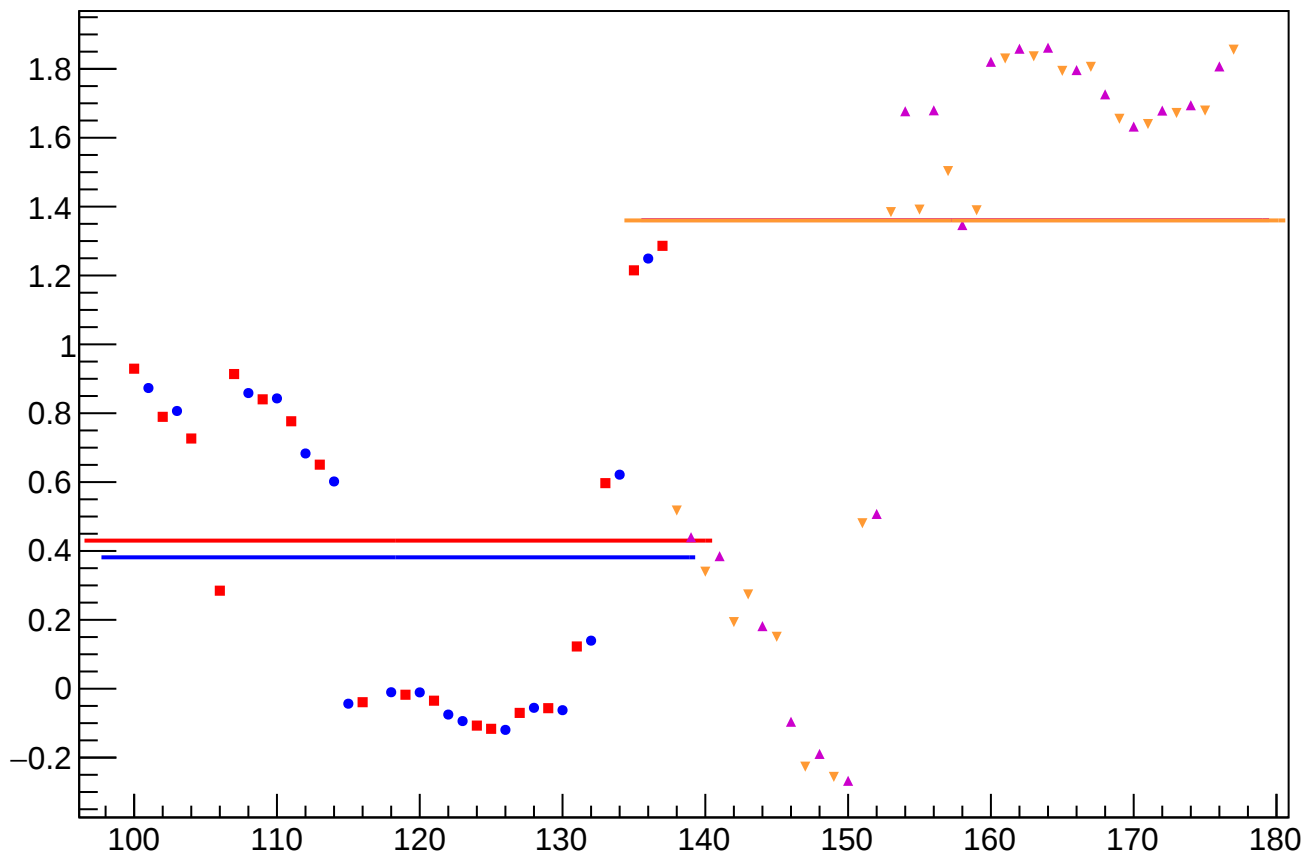
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF : 2627937.6/35

Out: 0.005+/-0.000 χ^2/NDF : 2383135.4/39

All: 0.005+/-0.000 χ^2/NDF : 5011499.3/75

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2/NDF : 7124759123.1/16

Left Out: 1.360 $\pm$ 0.000 χ^2/NDF : 44982615839.4/20

Right Out: 0.430 $\pm$ 0.000 χ^2/NDF : 6676199135.9/18

Left In: 1.361 $\pm$ 0.000 χ^2/NDF : 49022524024.5/18

Left: 1.360 $\pm$ 0.000 χ^2/NDF : 94005209337.6/39

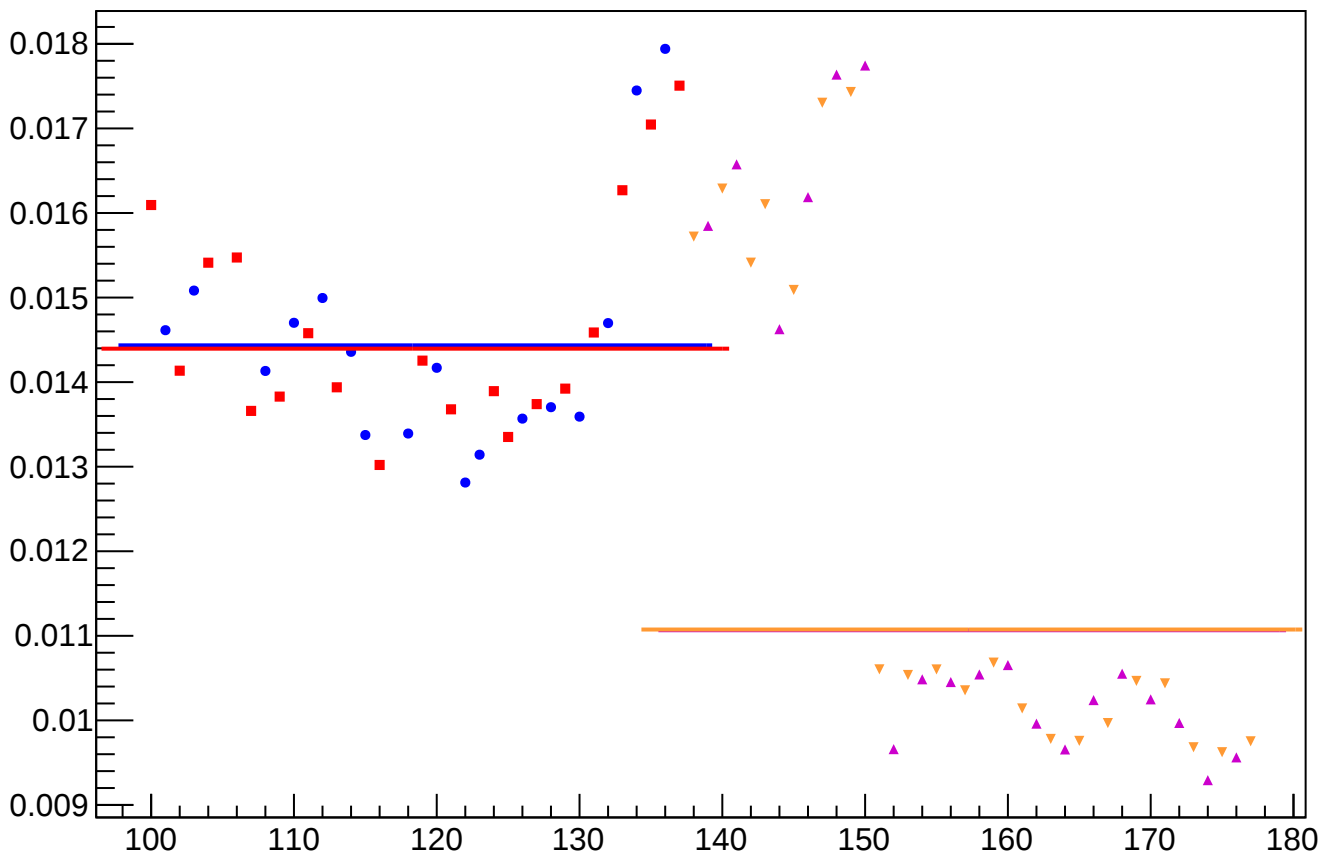
Right: 0.406 $\pm$ 0.000 χ^2/NDF : 13839390791.2/35

In: 1.147 $\pm$ 0.000 χ^2/NDF : 79965571943.0/35

Out: 1.160 $\pm$ 0.000 χ^2/NDF : 74394260088.1/39

All: 1.153 $\pm$ 0.000 χ^2/NDF : 154373014445.7

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 :1206326.0/20

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.011+/-0.000 χ^2/NDF :1252442.1/18

Left: 0.011+/-0.000 χ^2/NDF : 2458776.4/39

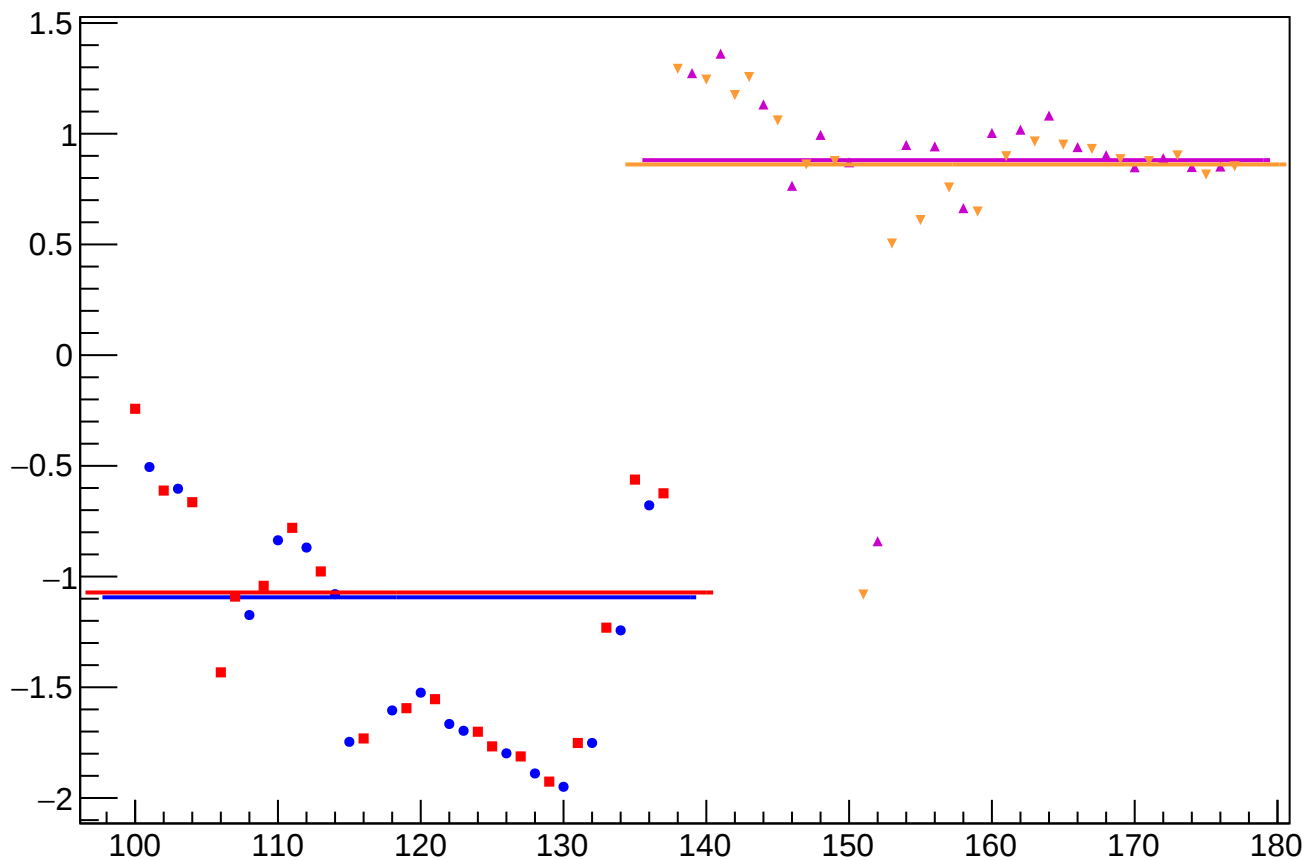
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1926307.4/35

Out: 0.012+/-0.000 χ^2/NDF :1861022.8/39

All: 0.012+/-0.000 χ^2/NDF : 3787361.6/75

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094 ± 0.000 $\chi^2/\text{NDF}: 55960104370.4/16$

Left Out: 0.861 ± 0.000 $\chi^2/\text{NDF}: 125042078716.8/20$

Right Out: -1.072 ± 0.000 $\chi^2/\text{NDF}: 46896017480.0/18$

Left In: 0.881 ± 0.000 $\chi^2/\text{NDF}: 145933123110.2/18$

Left: 0.871 ± 0.000 $\chi^2/\text{NDF}: 271169255683.7/39$

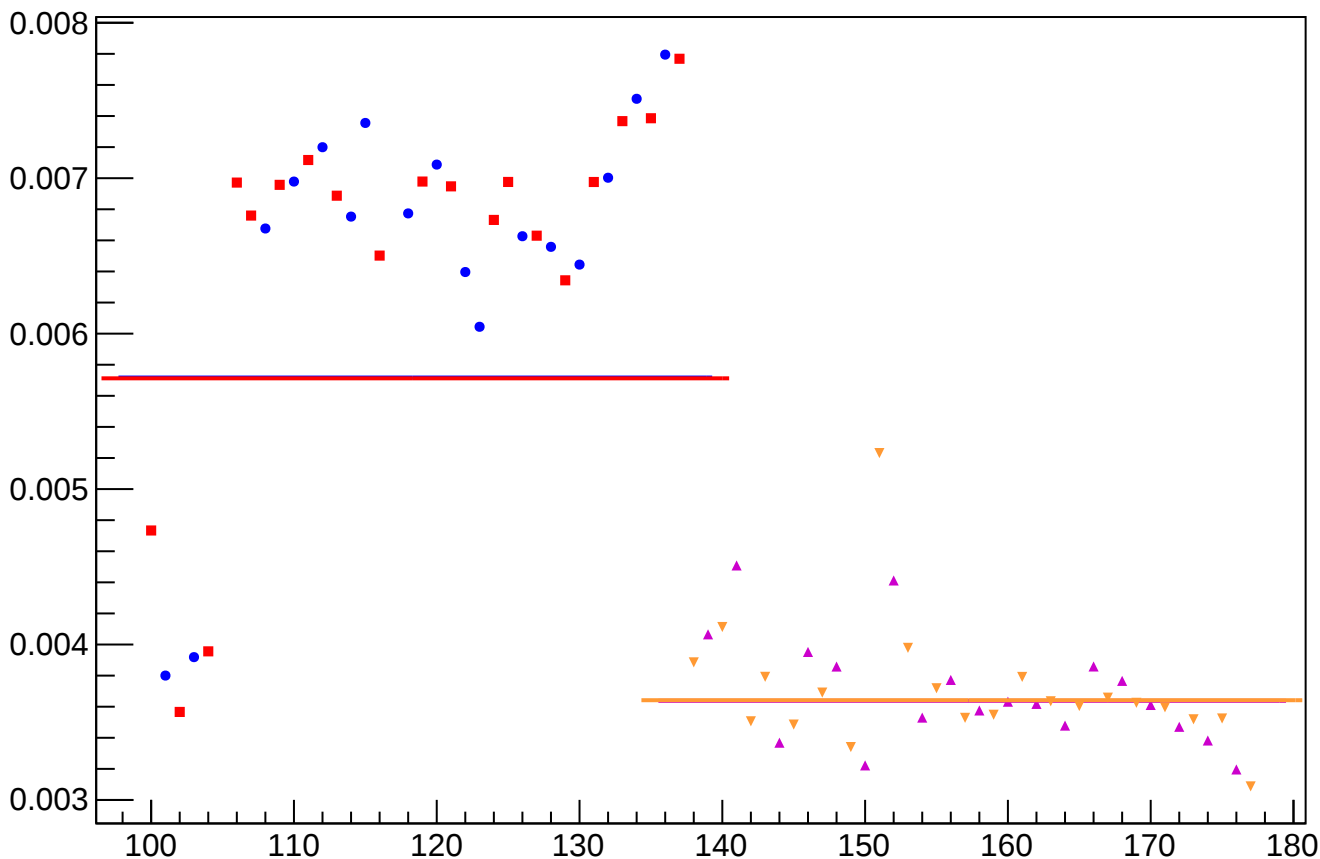
Right: -1.083 ± 0.000 $\chi^2/\text{NDF}: 102900070258.1/35$

In: 0.577 ± 0.000 $\chi^2/\text{NDF}: 801104514152.6/35$

Out: 0.573 ± 0.000 $\chi^2/\text{NDF}: 772437495471.8/39$

All: 0.575 ± 0.000 $\chi^2/\text{NDF}: 1573552939905.$

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 :221595.8/20

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :216188.0/18

Left: 0.004+/-0.000 χ^2/NDF : 437800.2/39

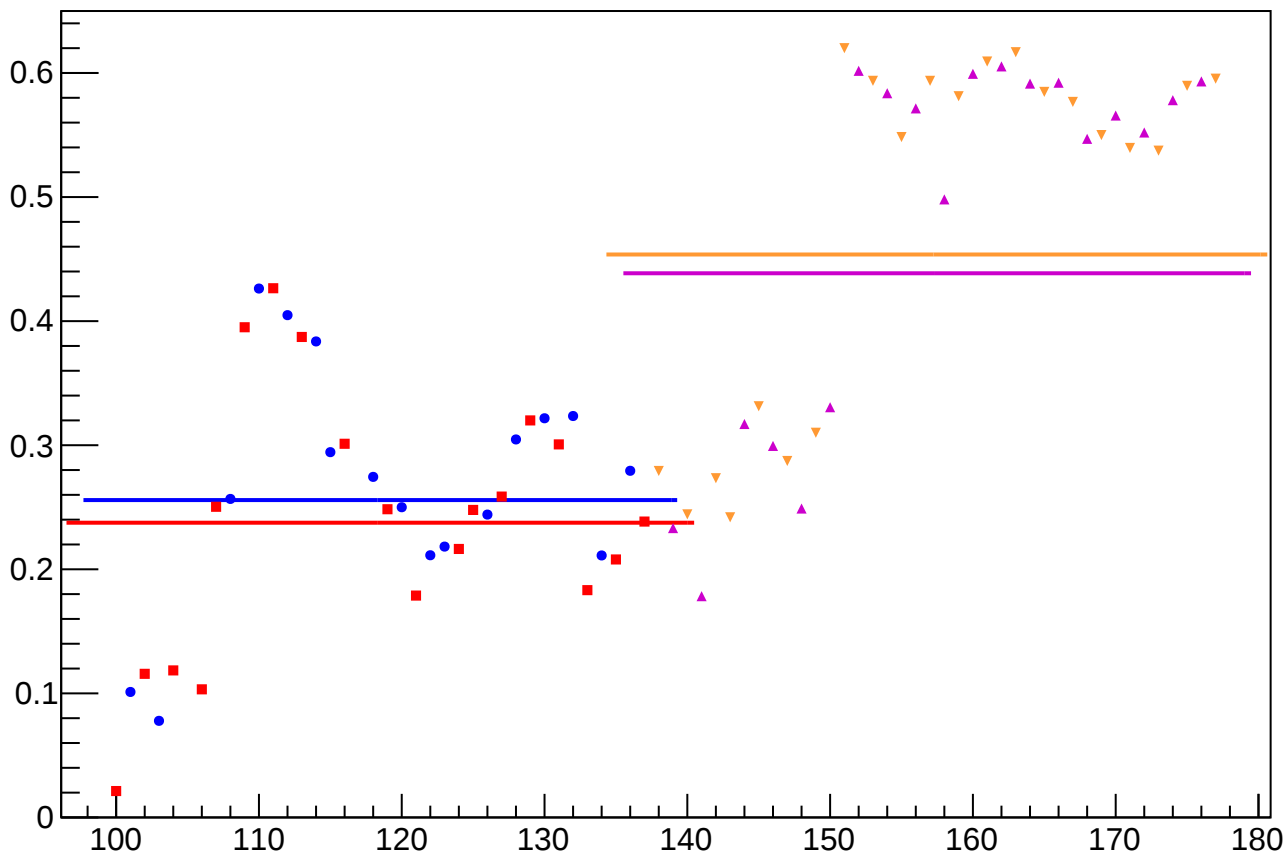
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2383945.3/35

Out: 0.004+/-0.000 χ^2/NDF :2523645.9/39

All: 0.004+/-0.000 χ^2/NDF : 4907648.0/75

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.454+/-0.000 χ^2/NDF : 94157330751.2/20

Right Out: 0.238+/-0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.439+/-0.000 χ^2/NDF : 91471295613.2/18

Left: 0.447+/-0.000 χ^2/NDF : 186073409687.7/39

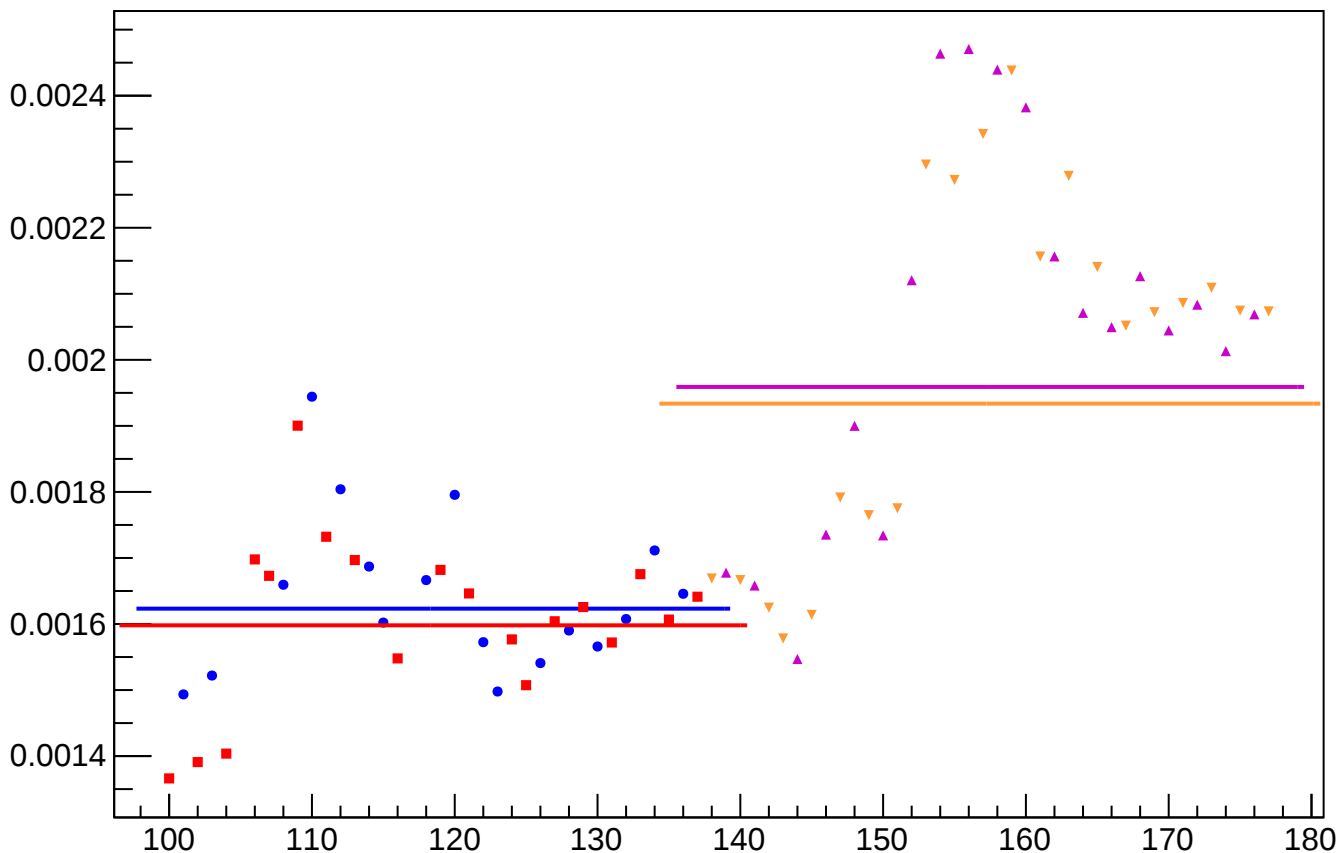
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.366+/-0.000 χ^2/NDF : 161934358649.0/35

Out: 0.368+/-0.000 χ^2/NDF : 196738953187.8/39

All: 0.367+/-0.000 χ^2/NDF : 358685007521.1

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 :569124.2/20

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF :569117.3/18

Left: 0.002+/-0.000 χ^2/NDF : 1140722.0/39

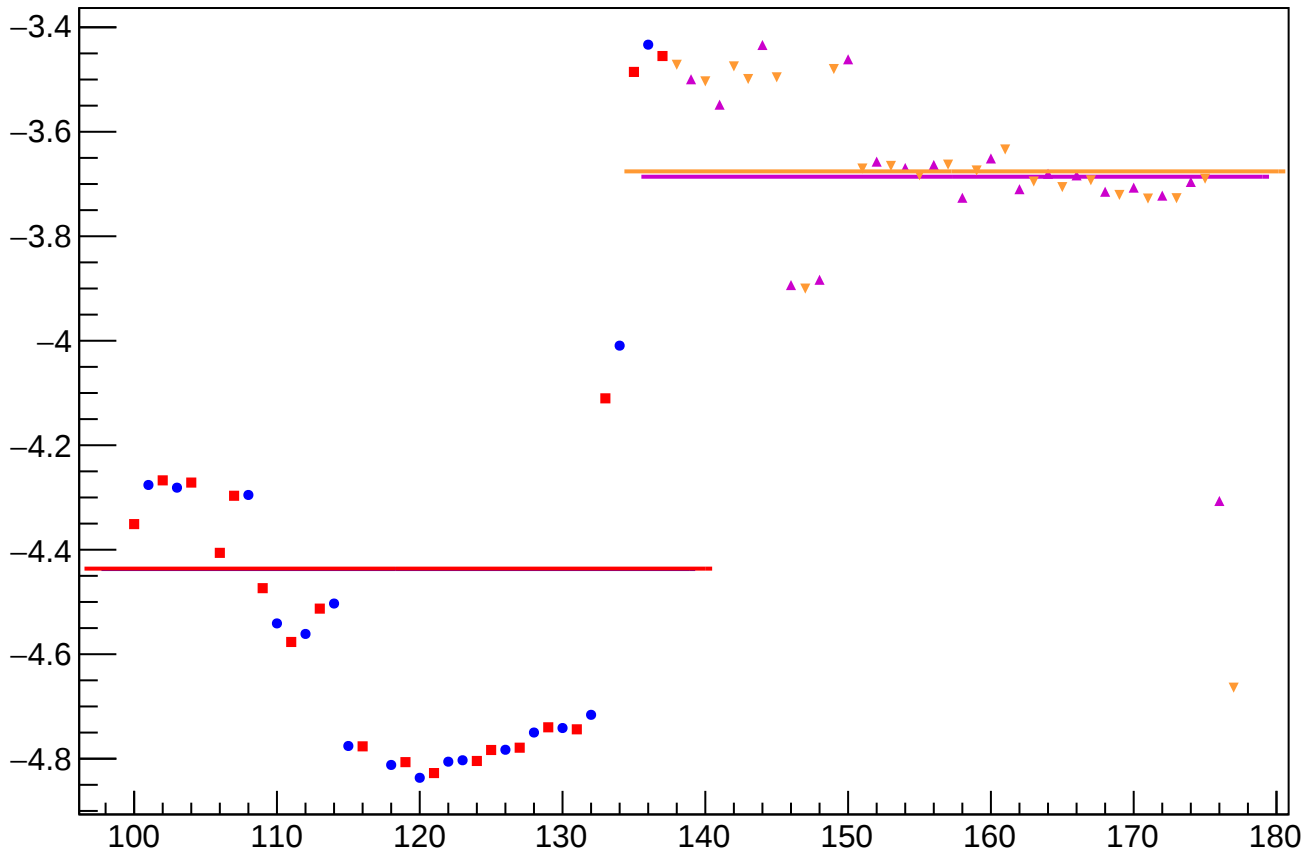
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF :952840.6/35

Out: 0.002+/-0.000 χ^2/NDF :1028923.2/39

All: 0.002+/-0.000 χ^2/NDF : 1985842.8/75

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.676 $\pm$ 0.000 χ^2/NDF : 194501219354.3/20

Right Out: -4.436 $\pm$ 0.000 χ^2/NDF : 325183860699.4/18

Left In: -3.686 $\pm$ 0.000 χ^2/NDF : 107832792389.2/18

Left: -3.681 $\pm$ 0.000 χ^2/NDF : 302505543861.3/39

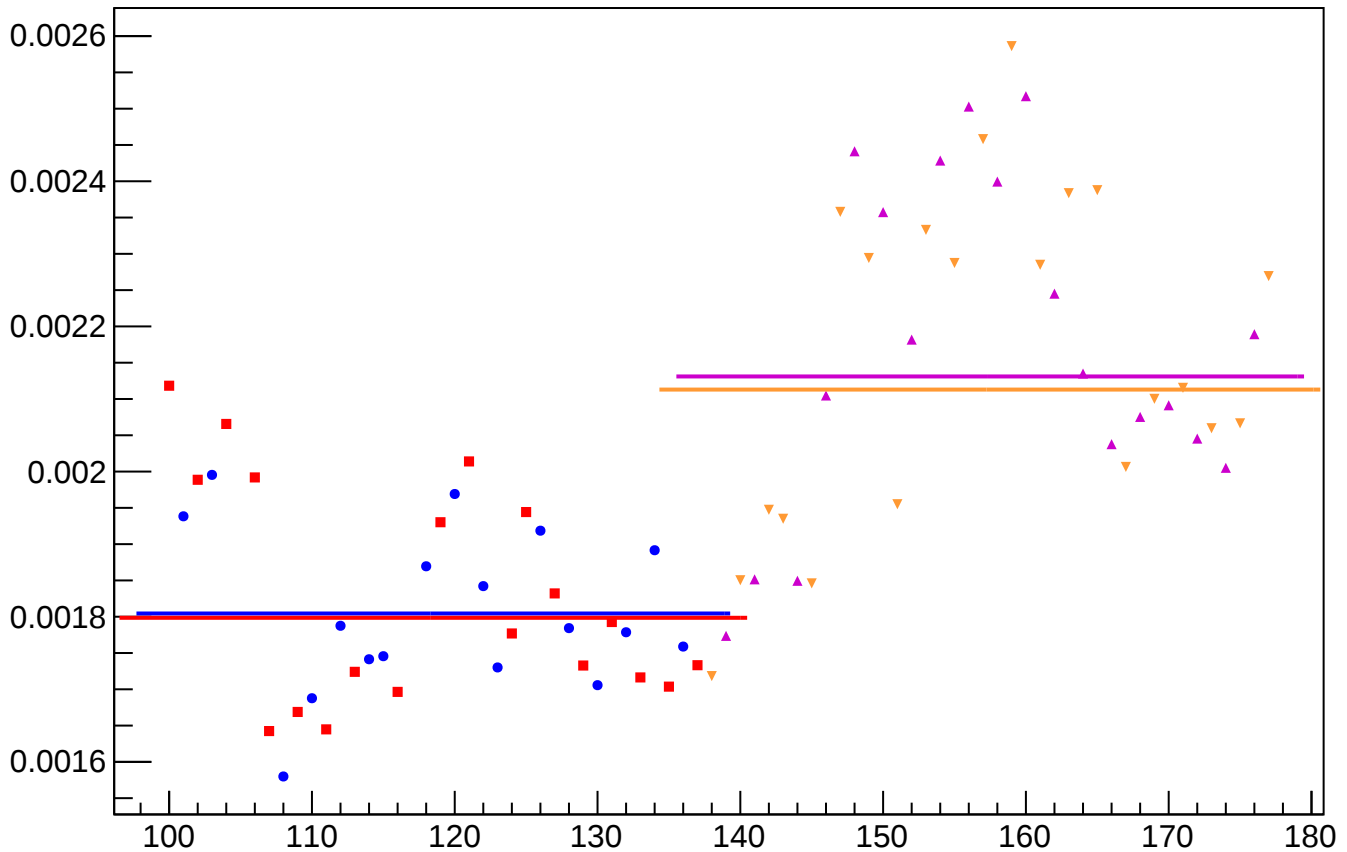
Right: -4.437 $\pm$ 0.000 χ^2/NDF : 717996921060.6/35

In: -3.978 $\pm$ 0.000 χ^2/NDF : 1189297687344.1/35

Out: -3.967 $\pm$ 0.000 χ^2/NDF : 1277895288488.1/39

All: -3.972 $\pm$ 0.000 χ^2/NDF : 2467537346914

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 :351927.7/20

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF :306199.4/18

Left: 0.002+/-0.000 χ^2/NDF : 659199.2/39

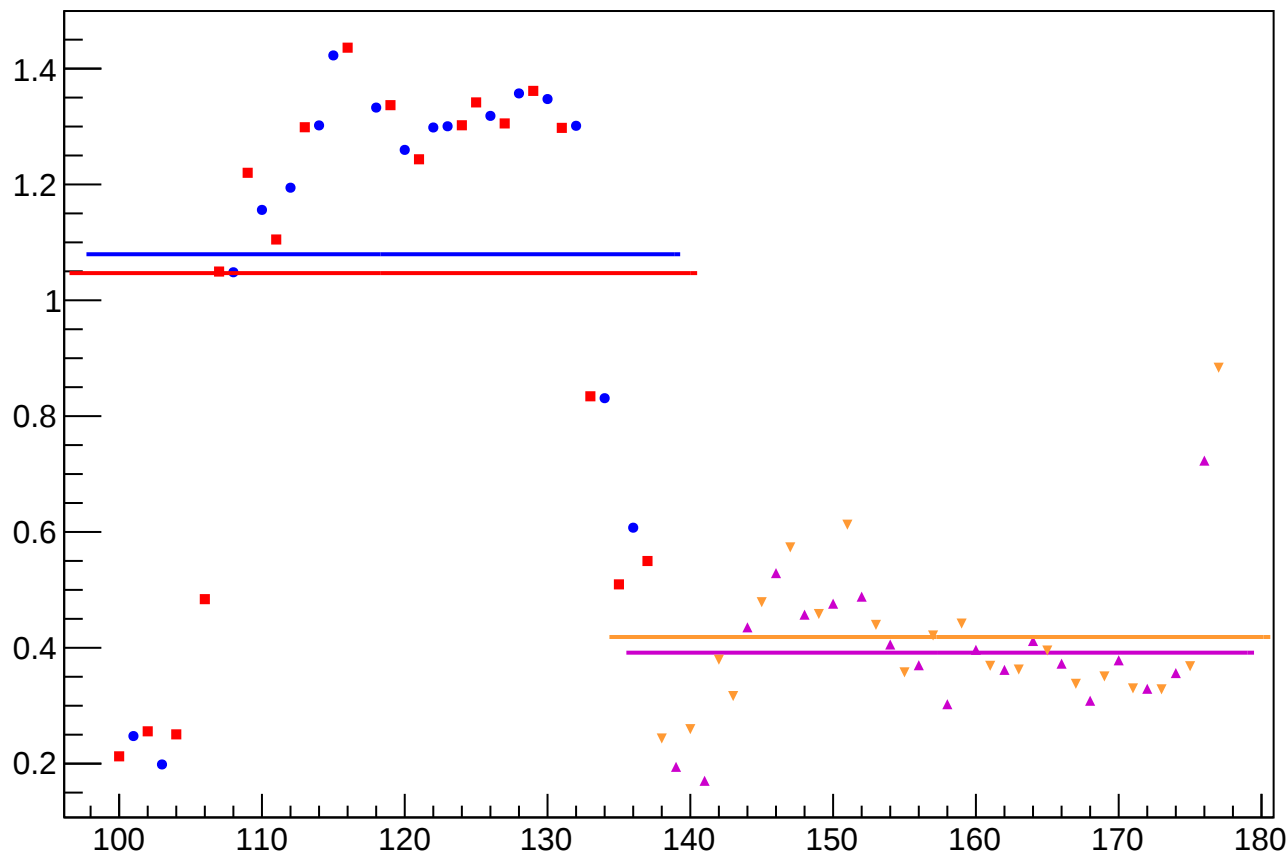
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :615864.1/35

Out: 0.002+/-0.000 χ^2/NDF :692285.8/39

All: 0.002+/-0.000 χ^2/NDF : 1308839.5/75

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.419 $\pm$ 0.000 χ^2 /NDF: 3787336896.2/20

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.392 $\pm$ 0.000 χ^2 /NDF: 2299104602.1/18

Left: 0.406 $\pm$ 0.000 χ^2 /NDF: 6149354084.7/39

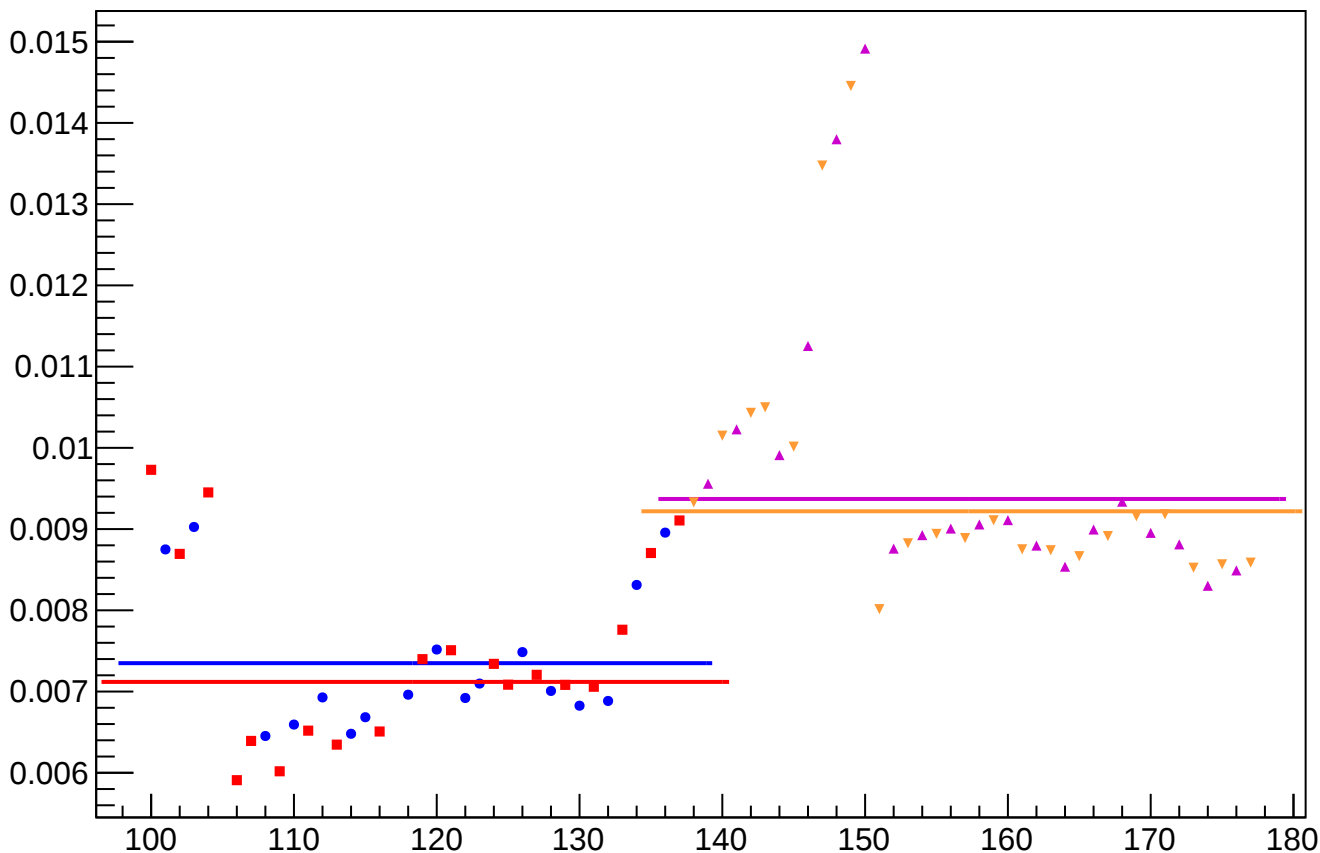
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.687 $\pm$ 0.000 χ^2 /NDF: 52890016423.9/35

Out: 0.689 $\pm$ 0.000 χ^2 /NDF: 54399219367.7/39

All: 0.688 $\pm$ 0.000 χ^2 /NDF: 107290327503.6

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.009+/-0.000 χ^2/NDF : 505404.9/20

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 552062.9/18

Left: 0.009+/-0.000 χ^2/NDF : 1061413.5/39

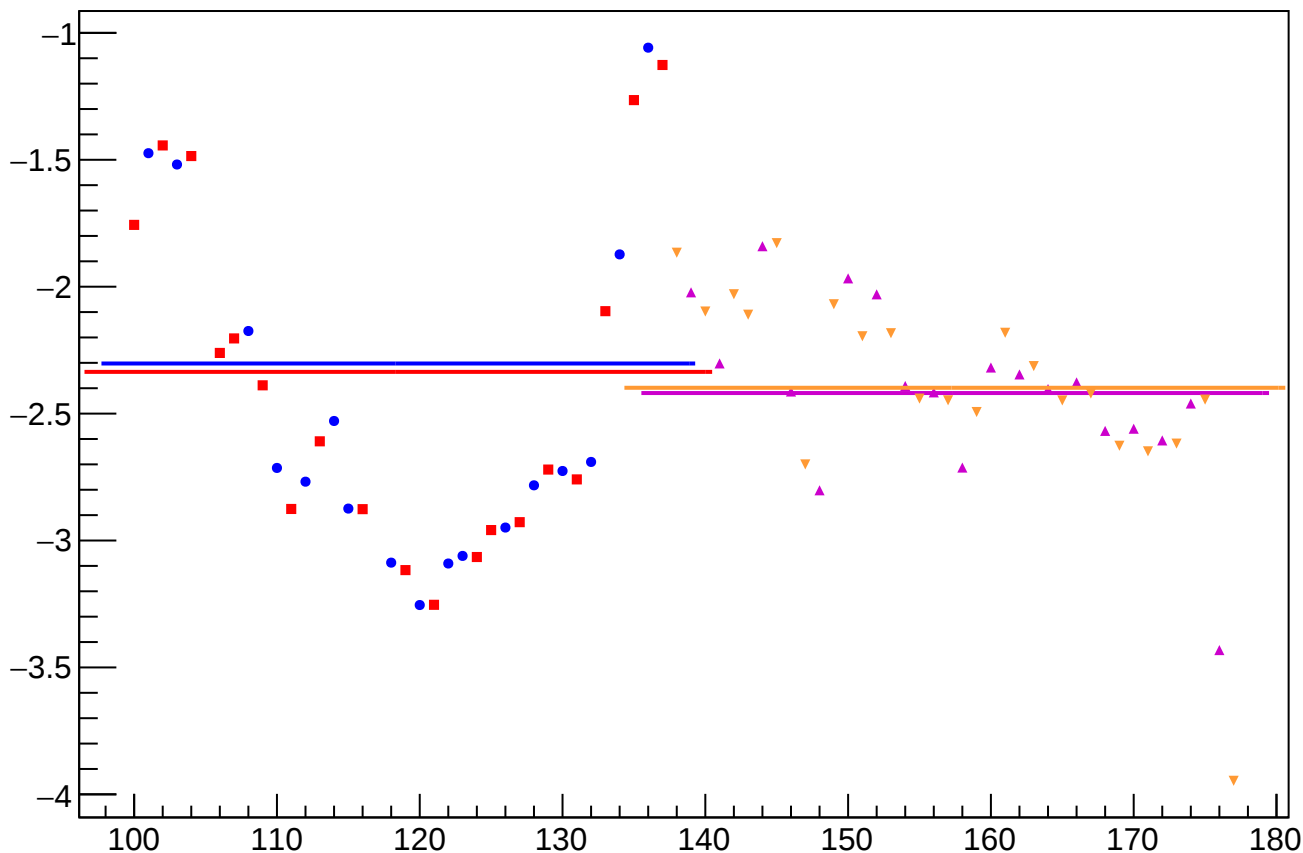
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1303717.8/35

Out: 0.008+/-0.000 χ^2/NDF : 1455890.5/39

All: 0.008+/-0.000 χ^2/NDF : 2770432.8/75

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303 ± 0.000 $\chi^2/\text{NDF}: 73755914805.8/16$

Left Out: -2.398 ± 0.000 $\chi^2/\text{NDF}: 37994089460.1/20$

Right Out: -2.336 ± 0.000 $\chi^2/\text{NDF}: 64499162456.4/18$

Left In: -2.419 ± 0.000 $\chi^2/\text{NDF}: 21556401849.6/18$

Left: -2.408 ± 0.000 $\chi^2/\text{NDF}: 59594232519.9/39$

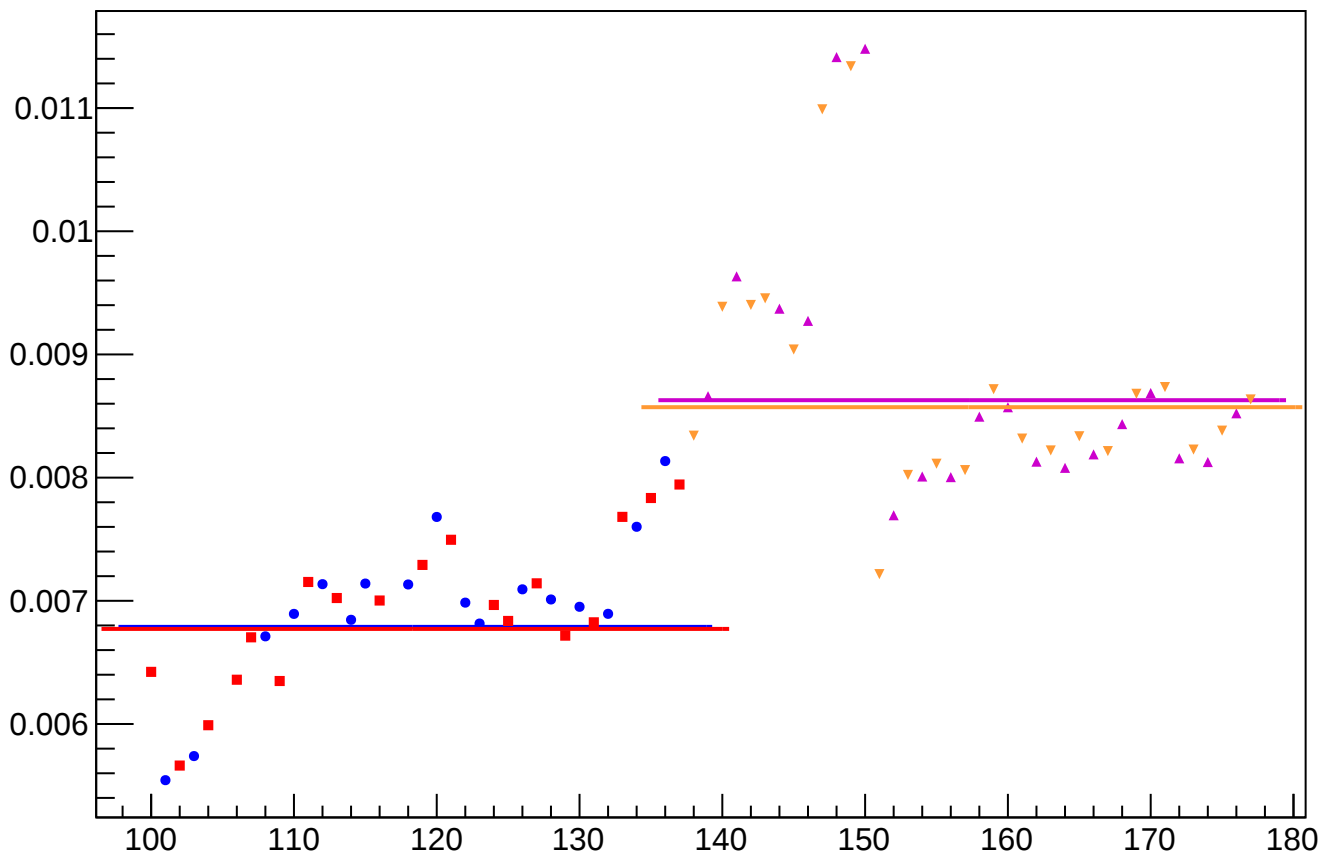
Right: -2.320 ± 0.000 $\chi^2/\text{NDF}: 138336112561.8/35$

In: -2.369 ± 0.000 $\chi^2/\text{NDF}: 96432964100.8/35$

Out: -2.372 ± 0.000 $\chi^2/\text{NDF}: 102843162994.1/39$

All: -2.371 ± 0.000 $\chi^2/\text{NDF}: 199277205109.4$

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009+/-0.000 χ^2/NDF :294045.9/20

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF :309272.0/18

Left: 0.009+/-0.000 χ^2/NDF : 603973.3/39

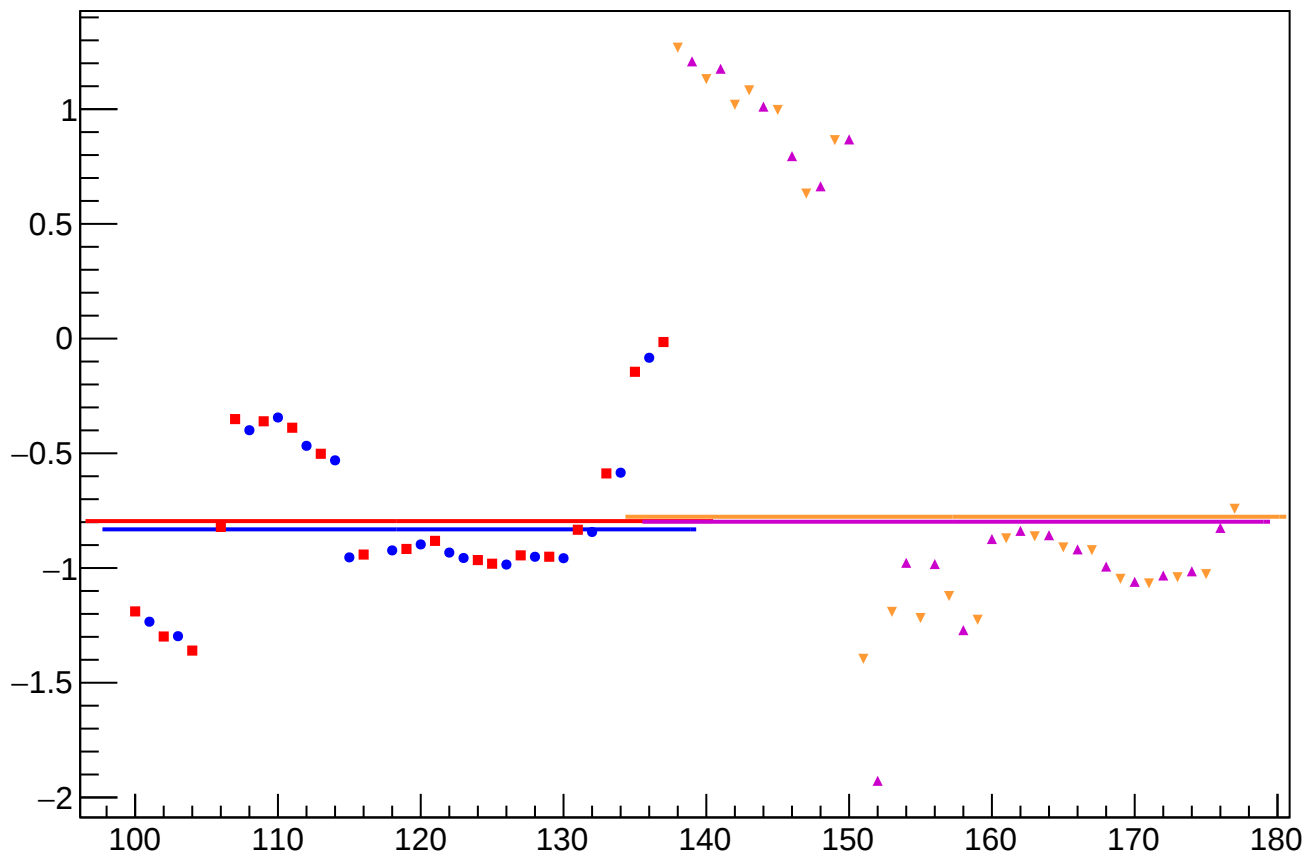
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF :1034742.0/35

Out: 0.008+/-0.000 χ^2/NDF :995310.0/39

All: 0.008+/-0.000 χ^2/NDF : 2030362.9/75

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ²/NDF: 6692170860.9/16

Left: -0.787+/-0.000

χ²/NDF: 241906464402.4/39

Left Out: -0.776+/-0.000

χ²/NDF: 118480470233.1/20

Right: -0.813+/-0.000

χ²/NDF: 14551426152.3/35

Right Out: -0.796+/-0.000

χ²/NDF: 7821744046.6/18

In: -0.805+/-0.000

χ²/NDF: 130113046699.1/35

Out: -0.780+/-0.000

χ²/NDF: 126319497863.3/39

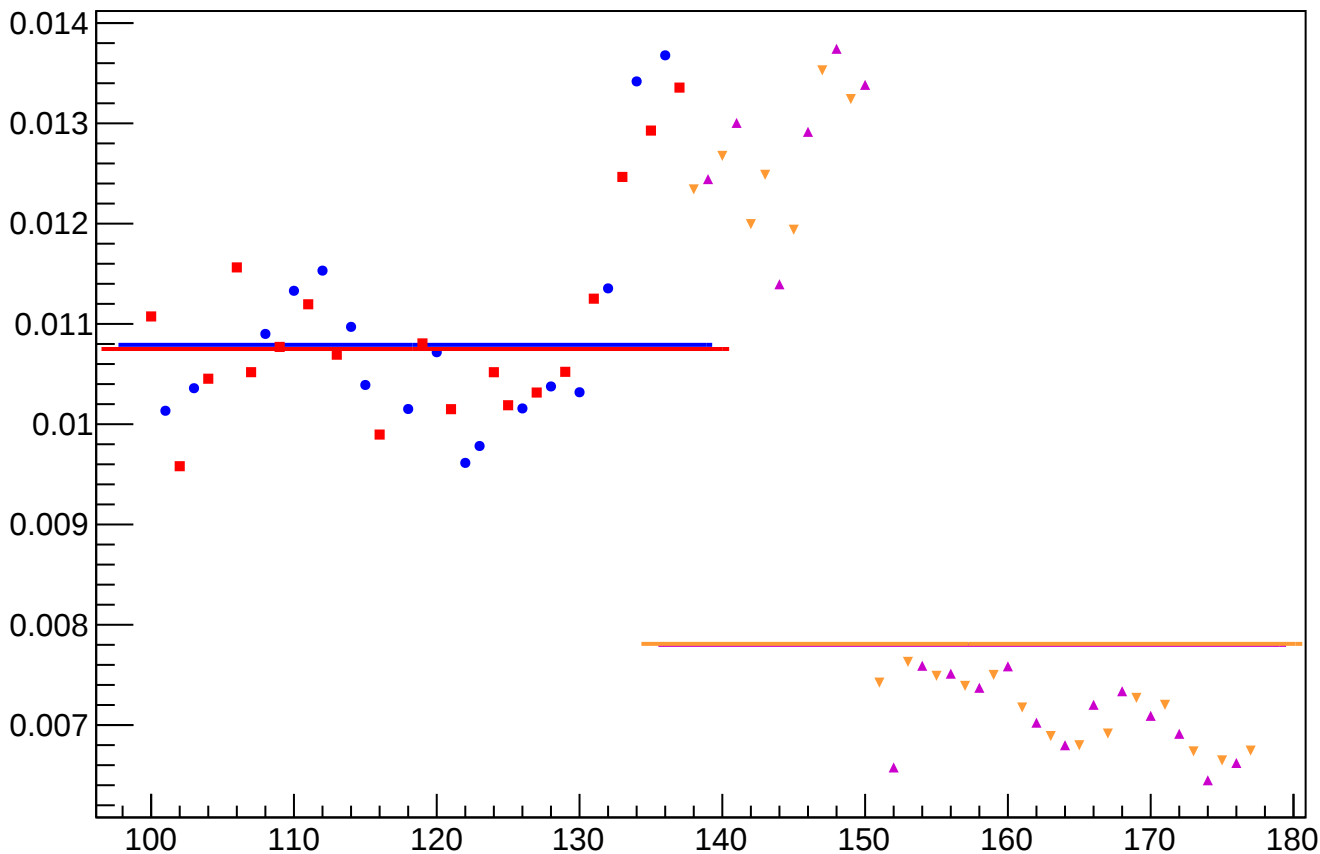
Left In: -0.798+/-0.000

χ²/NDF: 123371260470.0/18

All: -0.792+/-0.000

χ²/NDF: 256520728467.0

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :1675606.6/20

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF :1722361.9/18

Left: 0.008+/-0.000 χ^2/NDF : 3397992.2/39

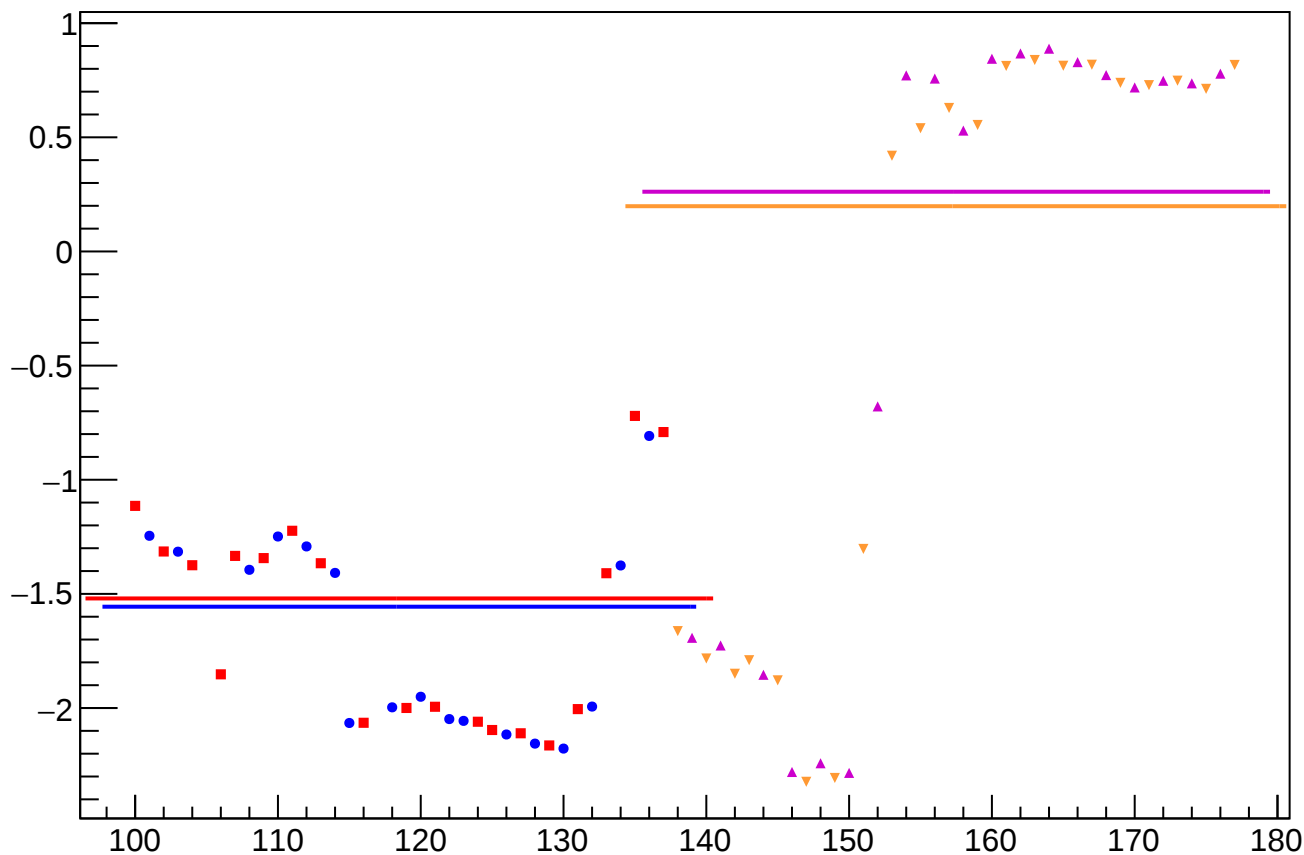
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.008+/-0.000 χ^2/NDF :2653898.1/35

Out: 0.008+/-0.000 χ^2/NDF :2592147.8/39

All: 0.008+/-0.000 χ^2/NDF : 5246074.2/75

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556 $\pm$ 0.000 χ^2/NDF : 154972763568.8/16

Left Out: 0.198 $\pm$ 0.000 χ^2/NDF : 2424395657865.4/20

Right Out: -1.520 $\pm$ 0.000 χ^2/NDF : 138464991806.4/18

Left In: 0.262 $\pm$ 0.000 χ^2/NDF : 2180654256051.5/18

Left: 0.229 $\pm$ 0.000 χ^2/NDF : 4609391155591.6/39

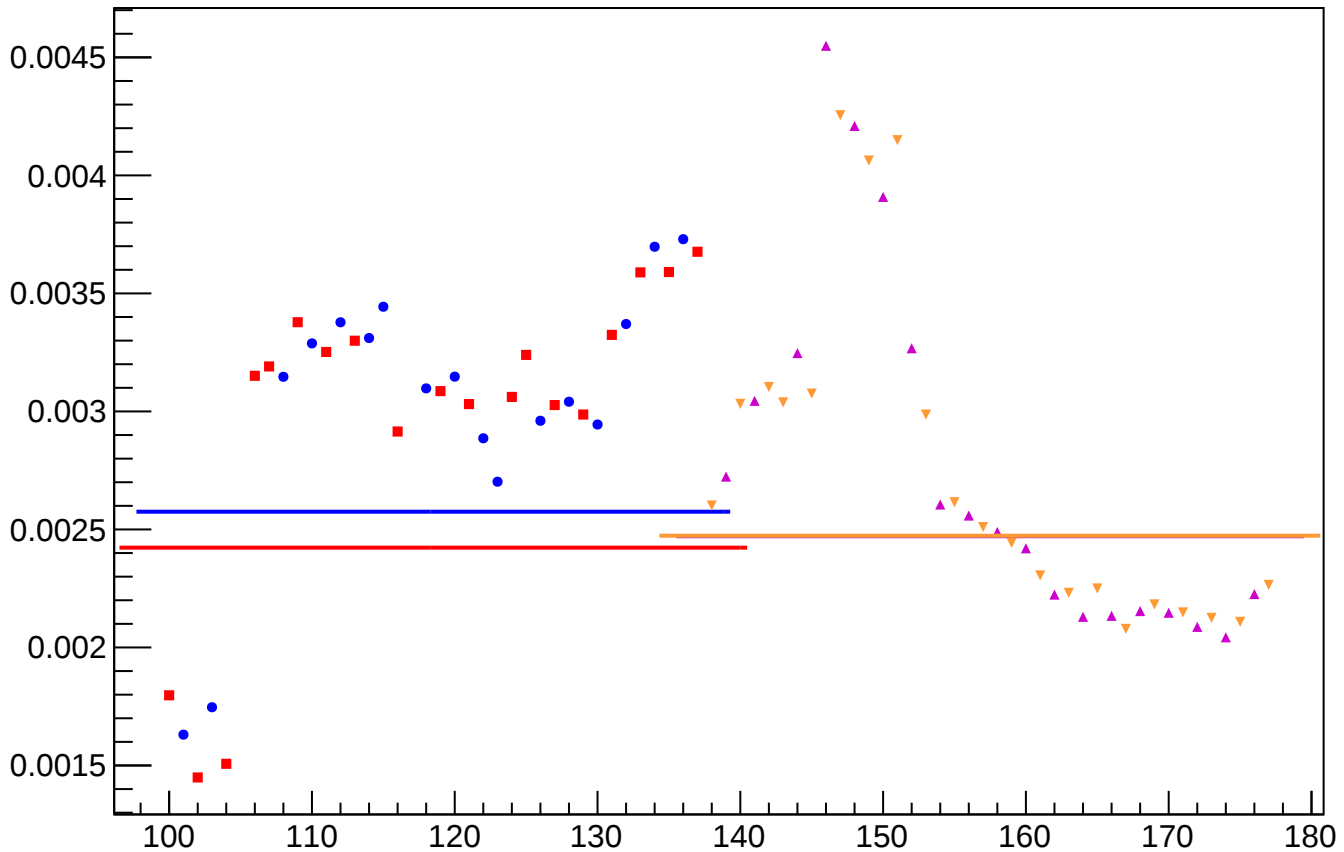
Right: -1.537 $\pm$ 0.000 χ^2/NDF : 294029827862.9/35

In: -0.269 $\pm$ 0.000 χ^2/NDF : 4332948199047.6/35

Out: -0.318 $\pm$ 0.000 χ^2/NDF : 4558494772233.9/39

All: -0.294 $\pm$ 0.000 χ^2/NDF : 8895095162734

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013833.9/16

Left Out: 0.002+/-0.000 χ^2/NDF :1057268.3/20

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.002+/-0.000 χ^2/NDF :1131474.8/18

Left: 0.002+/-0.000 χ^2/NDF : 2188753.9/39

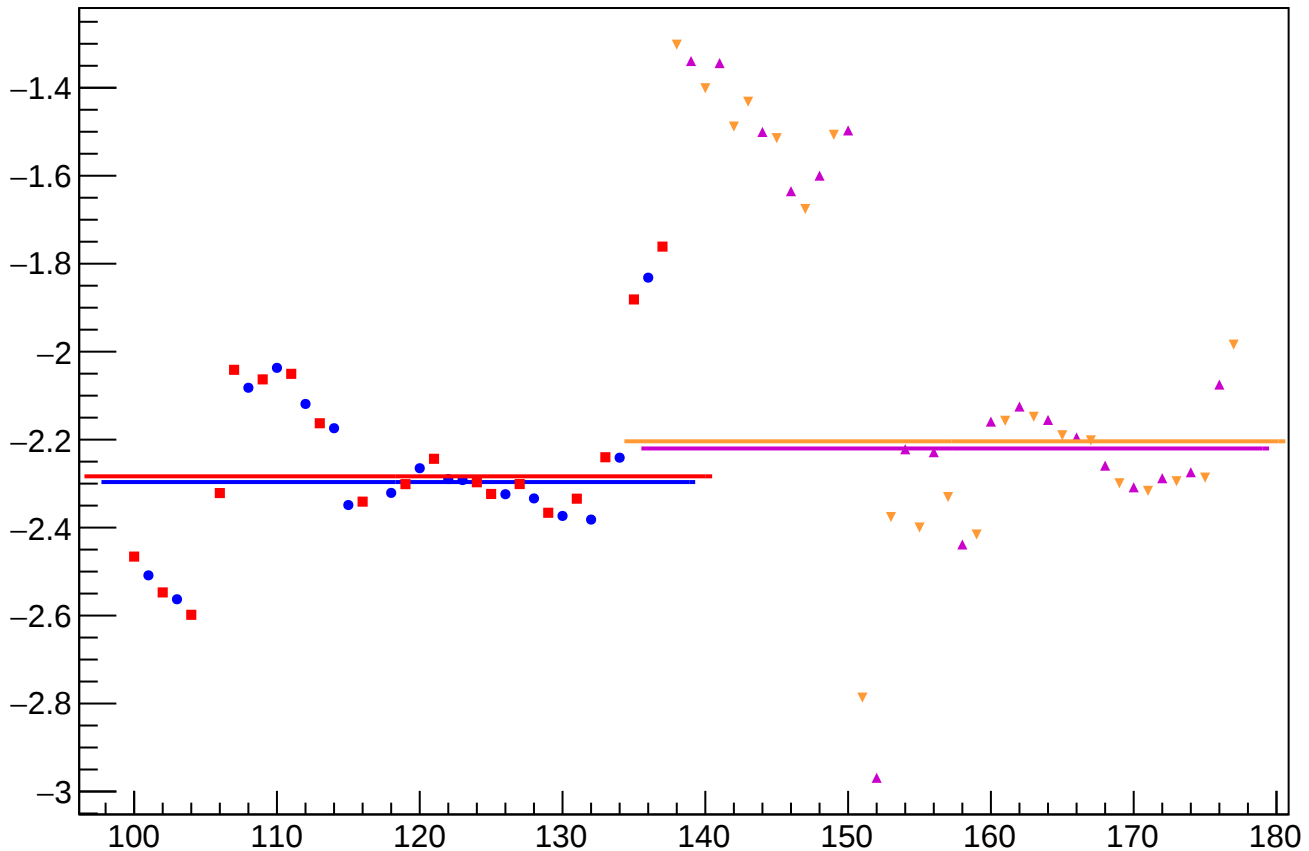
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.003+/-0.000 χ^2/NDF :2158356.2/35

Out: 0.002+/-0.000 χ^2/NDF :2550866.2/39

All: 0.002+/-0.000 χ^2/NDF : 4714958.8/75

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.204+/-0.000 χ^2/NDF : 55039429693.8/20

Right Out: -2.283+/-0.000 χ^2/NDF : 6548716896.9/18

Left In: -2.220+/-0.000 χ^2/NDF : 67997292636.7/18

Left: -2.212+/-0.000 χ^2/NDF : 123117841839.0/39

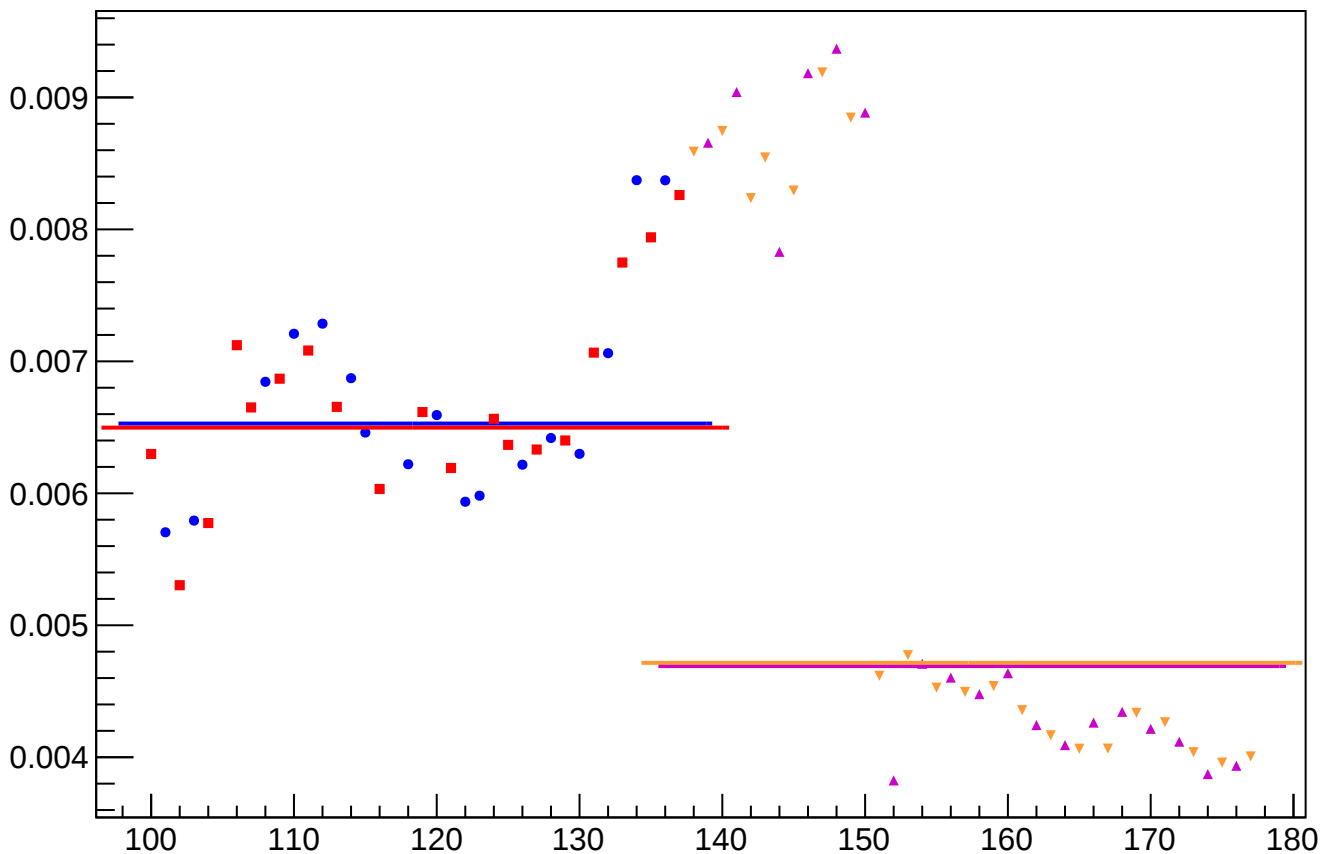
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.236+/-0.000 χ^2/NDF : 74484039648.2/35

Out: -2.220+/-0.000 χ^2/NDF : 62401049045.9/39

All: -2.228+/-0.000 χ^2/NDF : 136981094993.8

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:2270803.4/20

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 164144.2/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2330732.1/18

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4601902.4/39

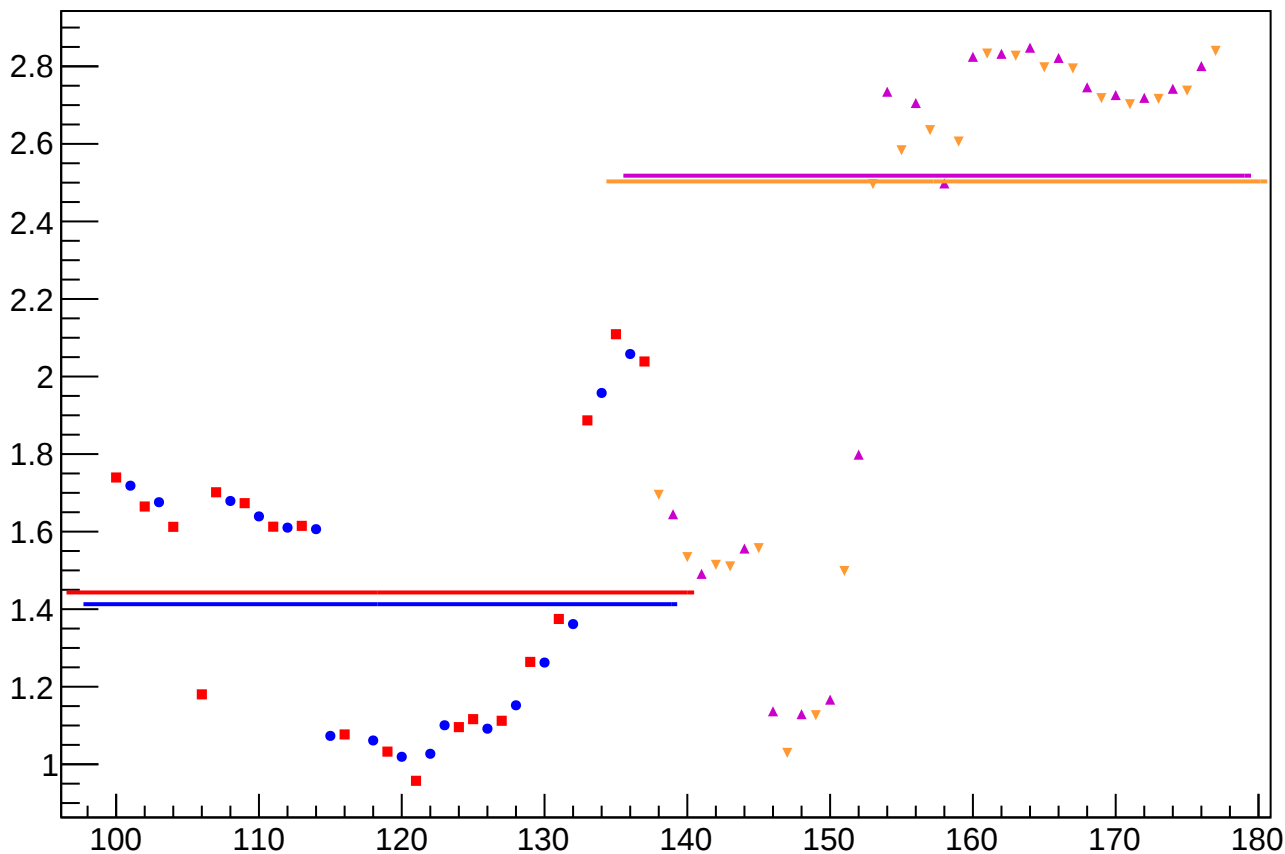
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 340761.0/35

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3322382.8/35

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:3249610.2/39

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 6572052.4/75

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.503+/-0.000 χ^2/NDF : 253163598176.1/20

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.518+/-0.000 χ^2/NDF : 245374074738.6/18

Left: 2.510+/-0.000 χ^2/NDF : 498656310669.1/39

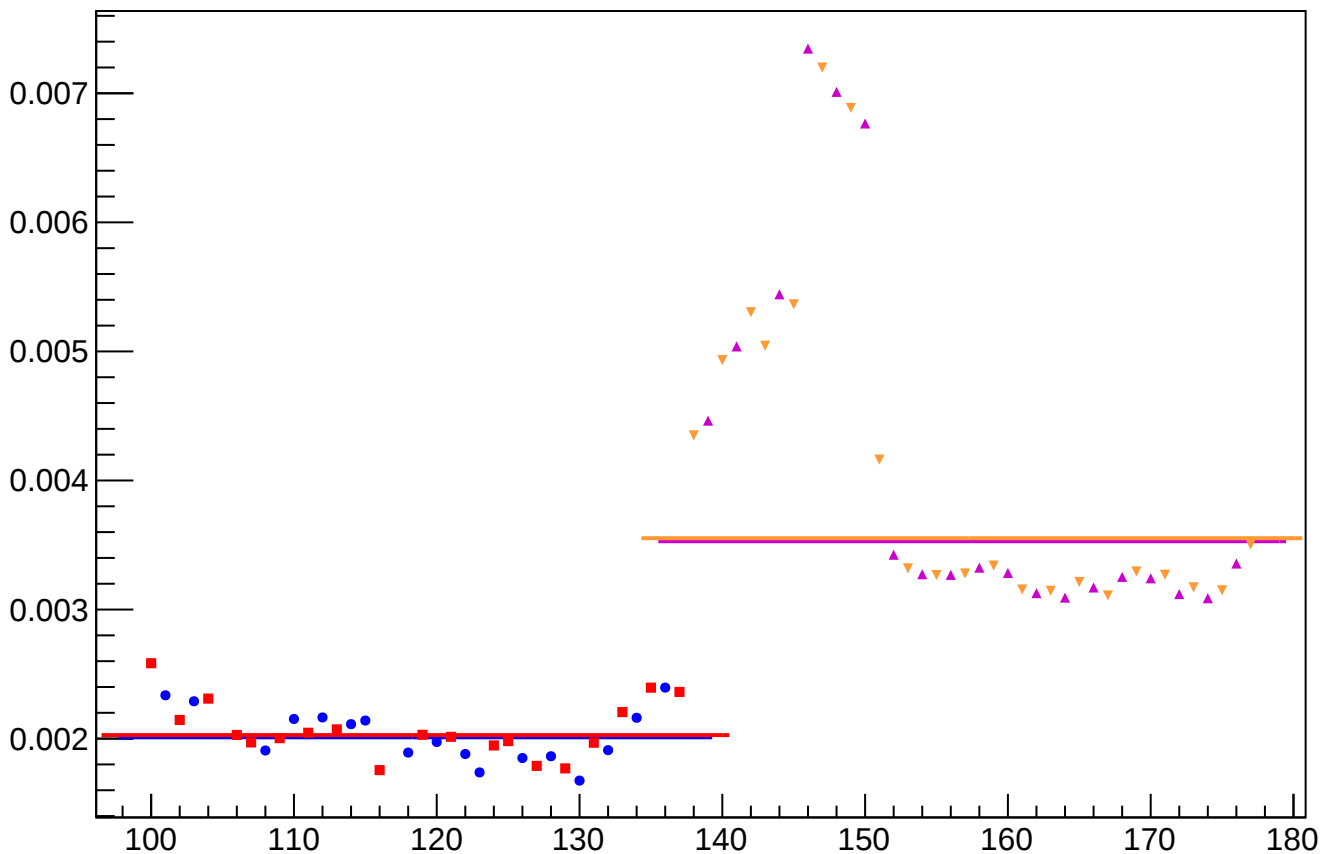
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.861+/-0.000 χ^2/NDF : 1174370451912.1/35

Out: 1.884+/-0.000 χ^2/NDF : 1163677890247.5/39

All: 1.873+/-0.000 χ^2/NDF : 2338723935085.

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 :1350501.1/20

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1535829.5/18

Left: 0.004+/-0.000 χ^2/NDF : 2886920.5/39

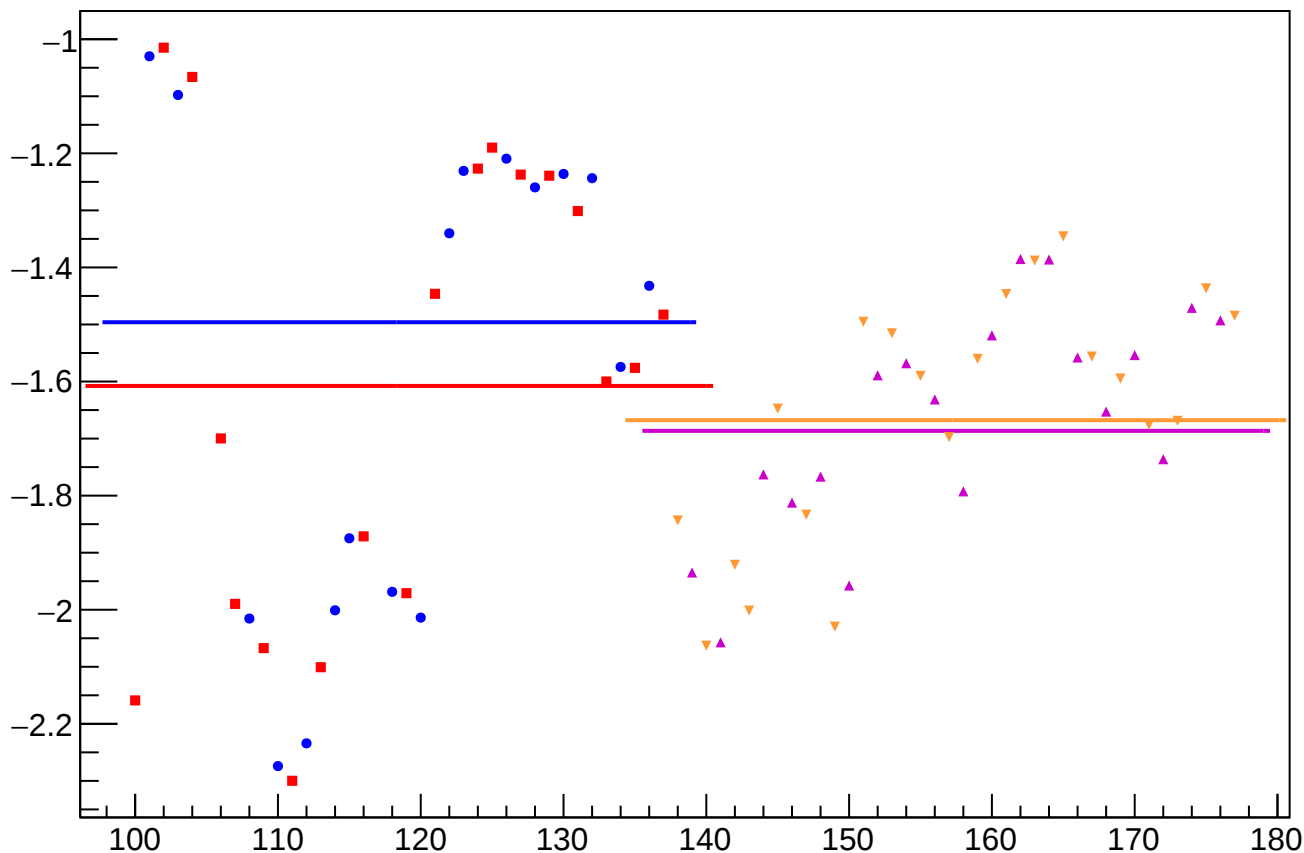
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4547480.5/35

Out: 0.003+/-0.000 χ^2/NDF :4508390.0/39

All: 0.003+/-0.000 χ^2/NDF : 9059084.8/75

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.668+/-0.000 χ^2/NDF : 17508422059.4/20

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.686+/-0.000 χ^2/NDF : 12908597309.2/18

Left: -1.677+/-0.000 χ^2/NDF : 30481369244.5/39

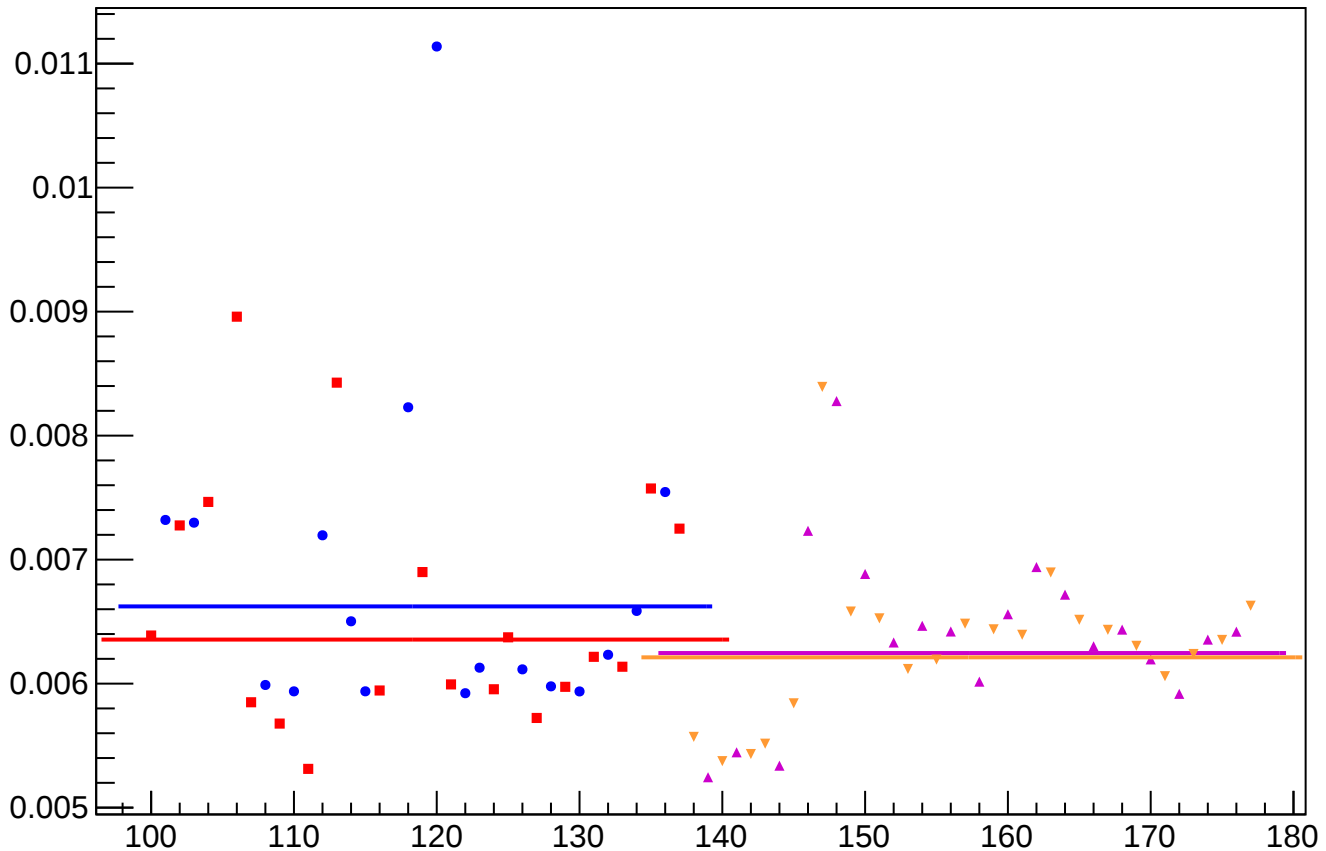
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.633+/-0.000 χ^2/NDF : 39048280480.5/35

Out: -1.650+/-0.000 χ^2/NDF : 45759570246.3/39

All: -1.642+/-0.000 χ^2/NDF : 84885169560.4/78

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 :234568.3/20

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :294164.9/18

Left: 0.006+/-0.000 χ^2/NDF : 529180.3/39

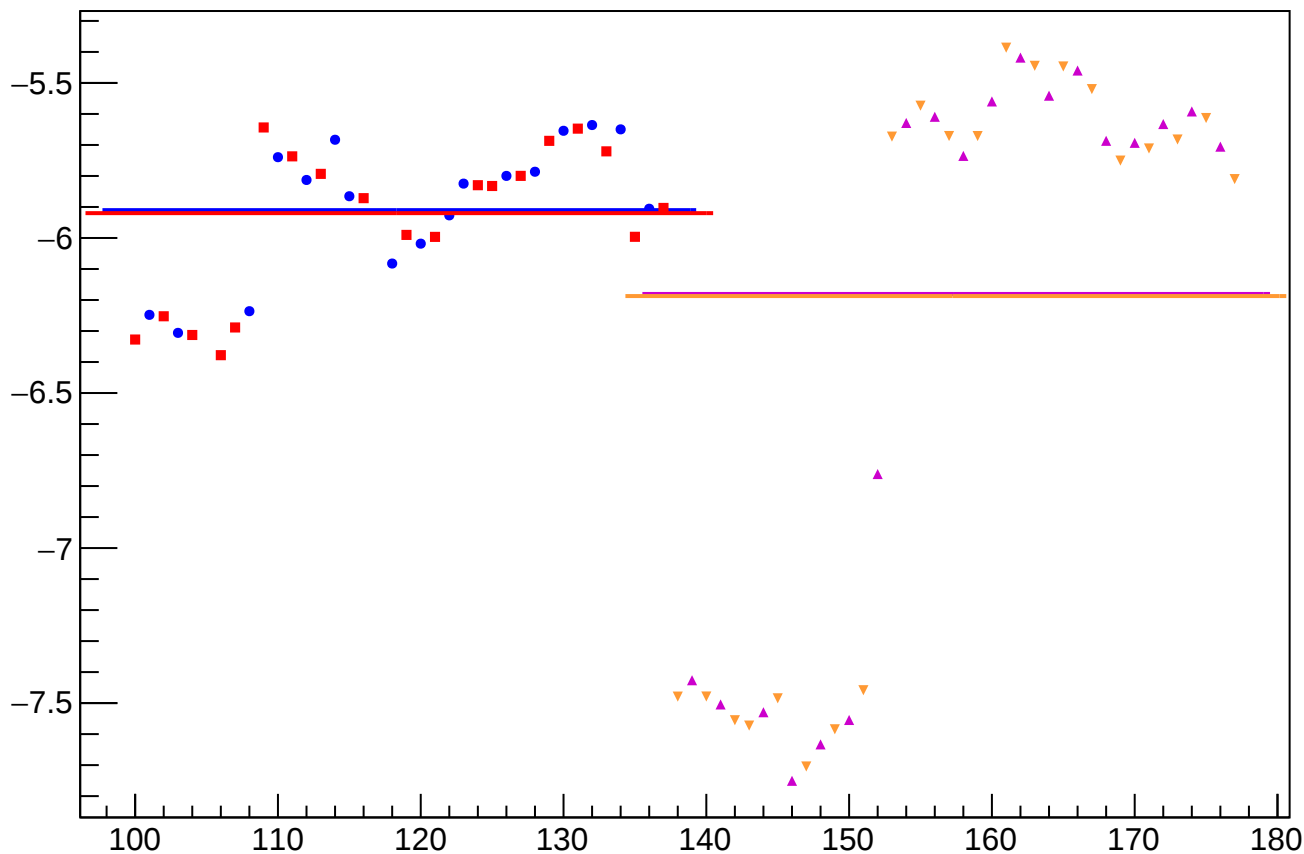
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :554995.1/35

Out: 0.006+/-0.000 χ^2/NDF :467147.8/39

All: 0.006+/-0.000 χ^2/NDF : 1027174.6/75

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.187+/-0.000 χ^2/NDF : 178535889707.7/20

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.181+/-0.000 χ^2/NDF : 153132455789.9/18

Left: -6.184+/-0.000 χ^2/NDF : 331673348986.3/39

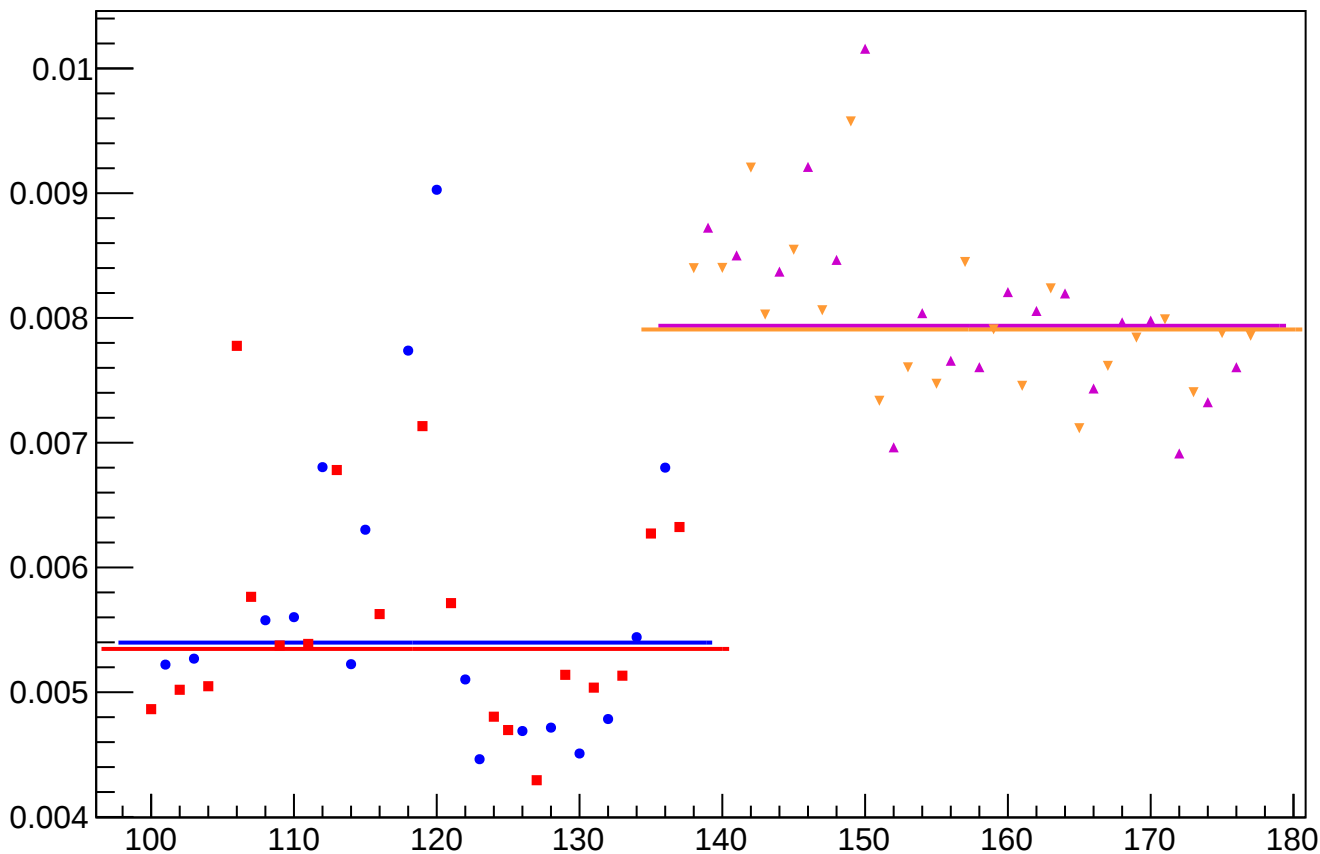
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.048+/-0.000 χ^2/NDF : 171840195438.8/35

Out: -6.055+/-0.000 χ^2/NDF : 199356452683.7/39

All: -6.052+/-0.000 χ^2/NDF : 371206664868.5

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 :123215.6/20

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :204033.9/18

Left: 0.008+/-0.000 χ^2/NDF : 327440.9/39

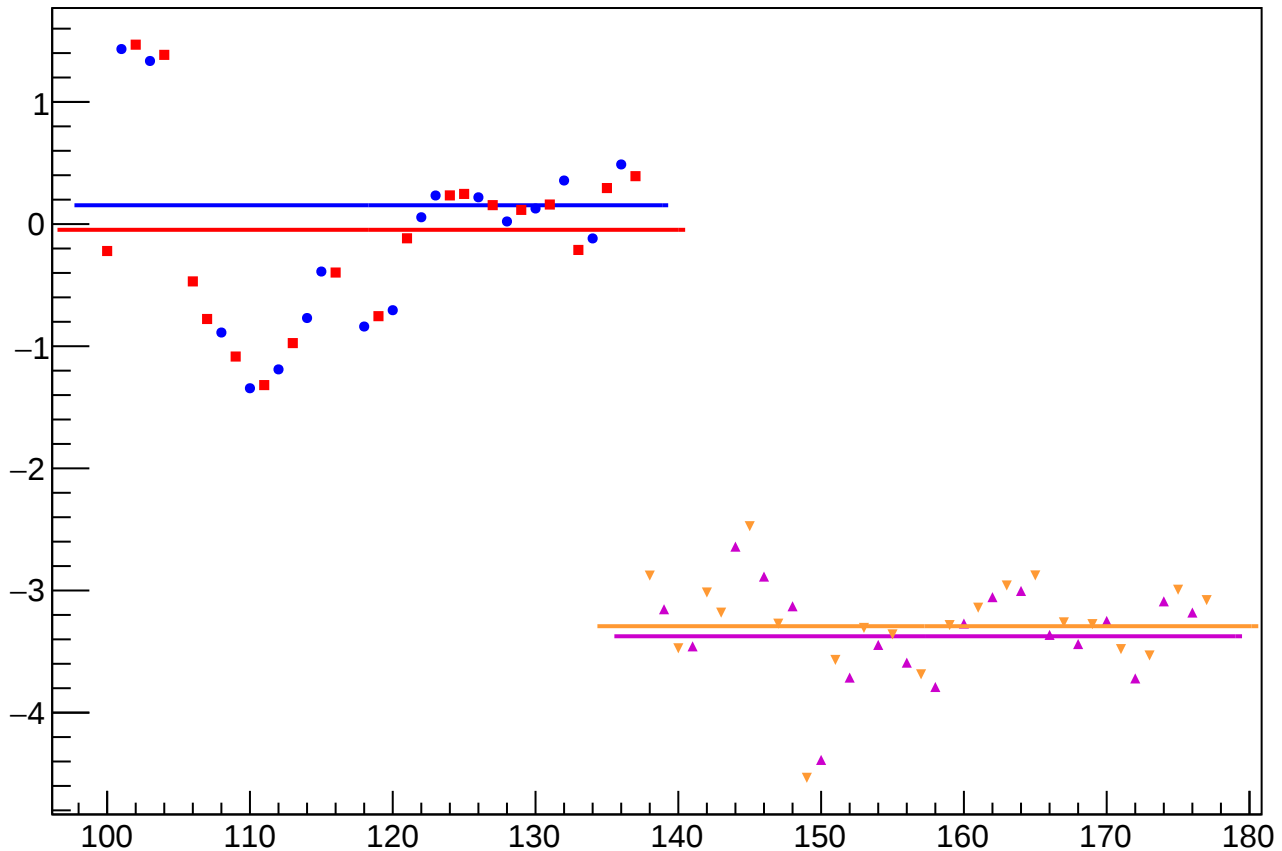
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1908375.4/35

Out: 0.007+/-0.000 χ^2/NDF :1845935.8/39

All: 0.007+/-0.000 χ^2/NDF : 3755529.3/75

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.292+/-0.000 χ^2/NDF : 8693431290.7/20

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.375+/-0.000 χ^2/NDF : 7732899273.8/18

Left: -3.332+/-0.000 χ^2/NDF : 16625069190.9/39

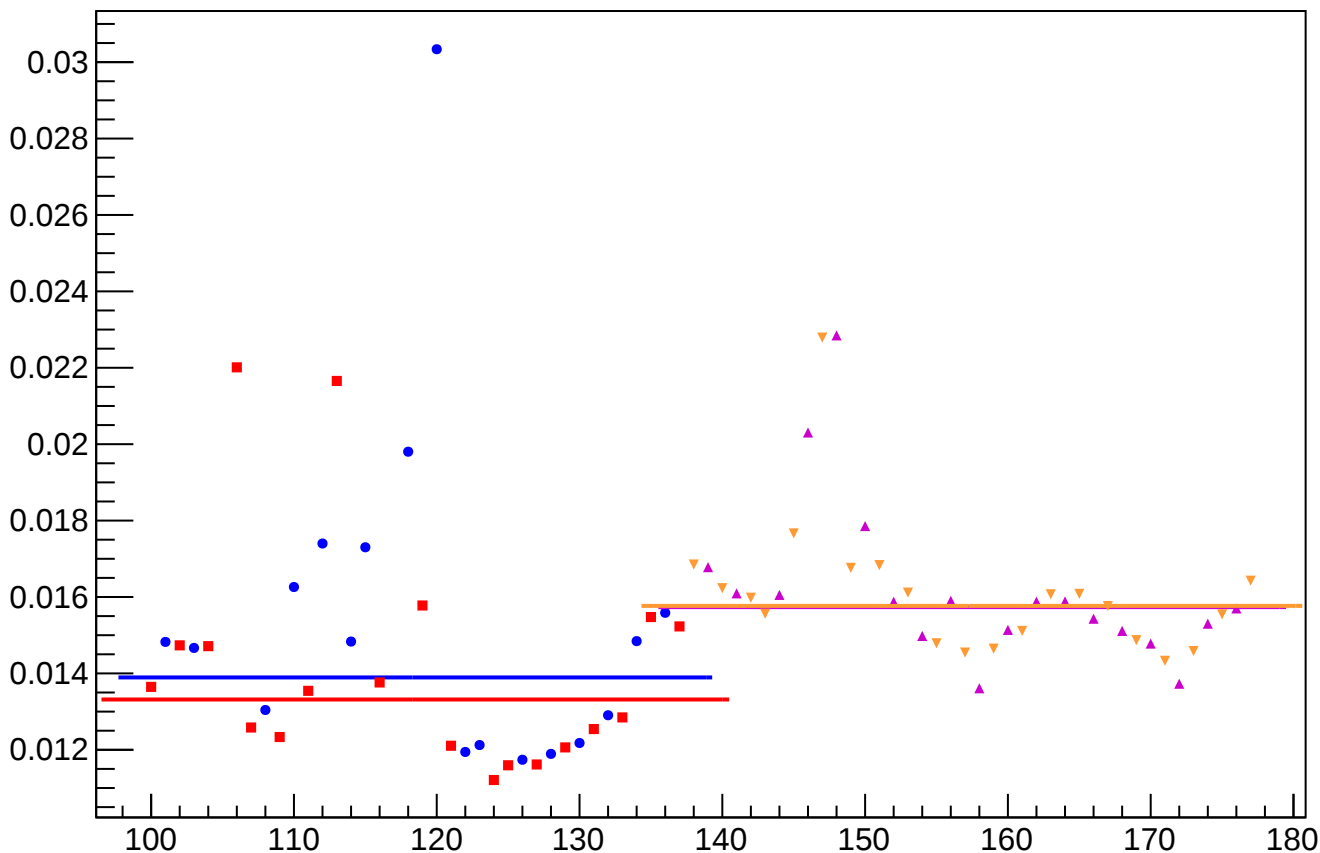
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.131+/-0.000 χ^2/NDF : 272050356807.0/35

Out: -2.077+/-0.000 χ^2/NDF : 269849577659.9/39

All: -2.102+/-0.000 χ^2/NDF : 542035937835.4

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 :234257.0/20

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :328015.0/18

Left: 0.016+/-0.000 χ^2/NDF : 562331.9/39

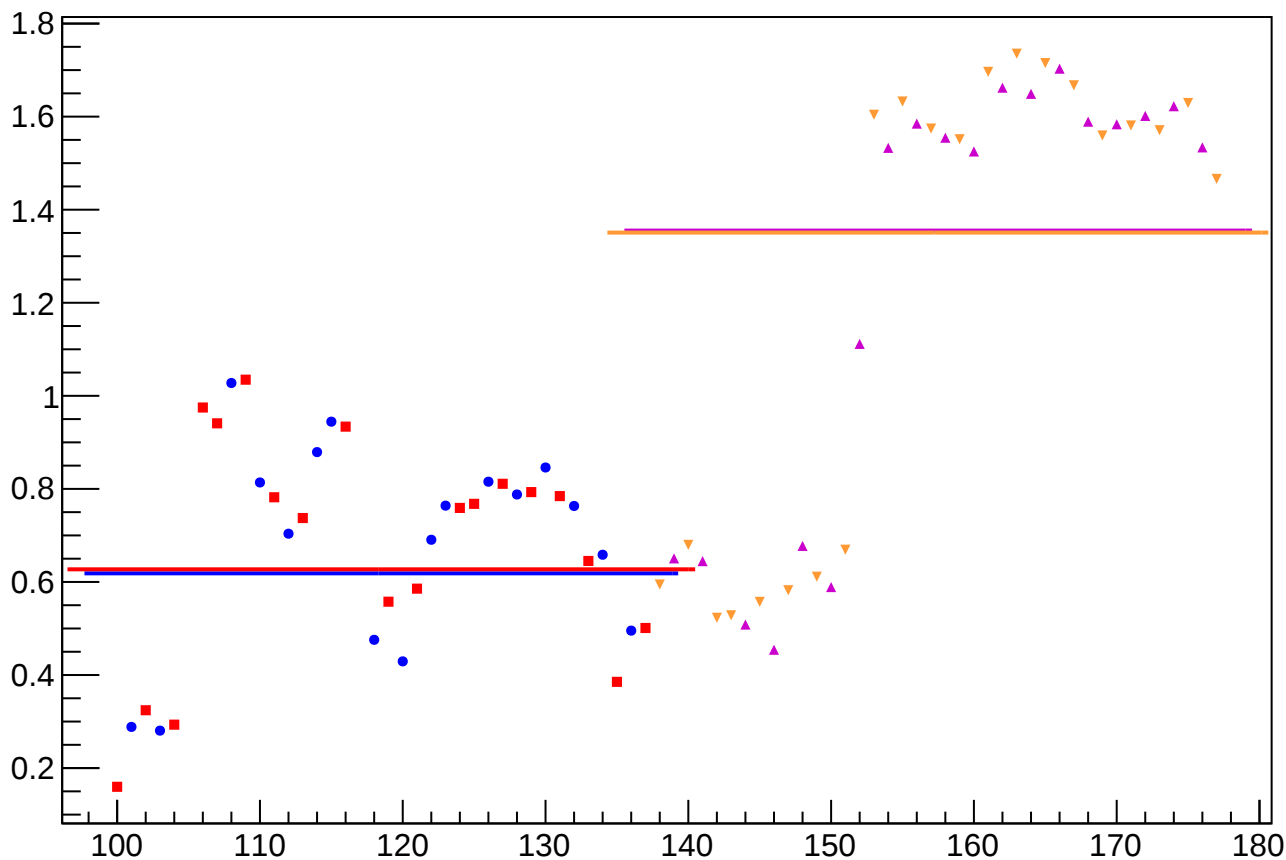
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :863172.1/35

Out: 0.015+/-0.000 χ^2/NDF :799116.2/39

All: 0.015+/-0.000 χ^2/NDF : 1667448.7/75

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.351+/-0.000 χ^2/NDF : 72249887205.1/20

Right Out: 0.627+/-0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.355+/-0.000 χ^2/NDF : 62424517666.1/18

Left: 1.353+/-0.000 χ^2/NDF : 134677882521.4/39

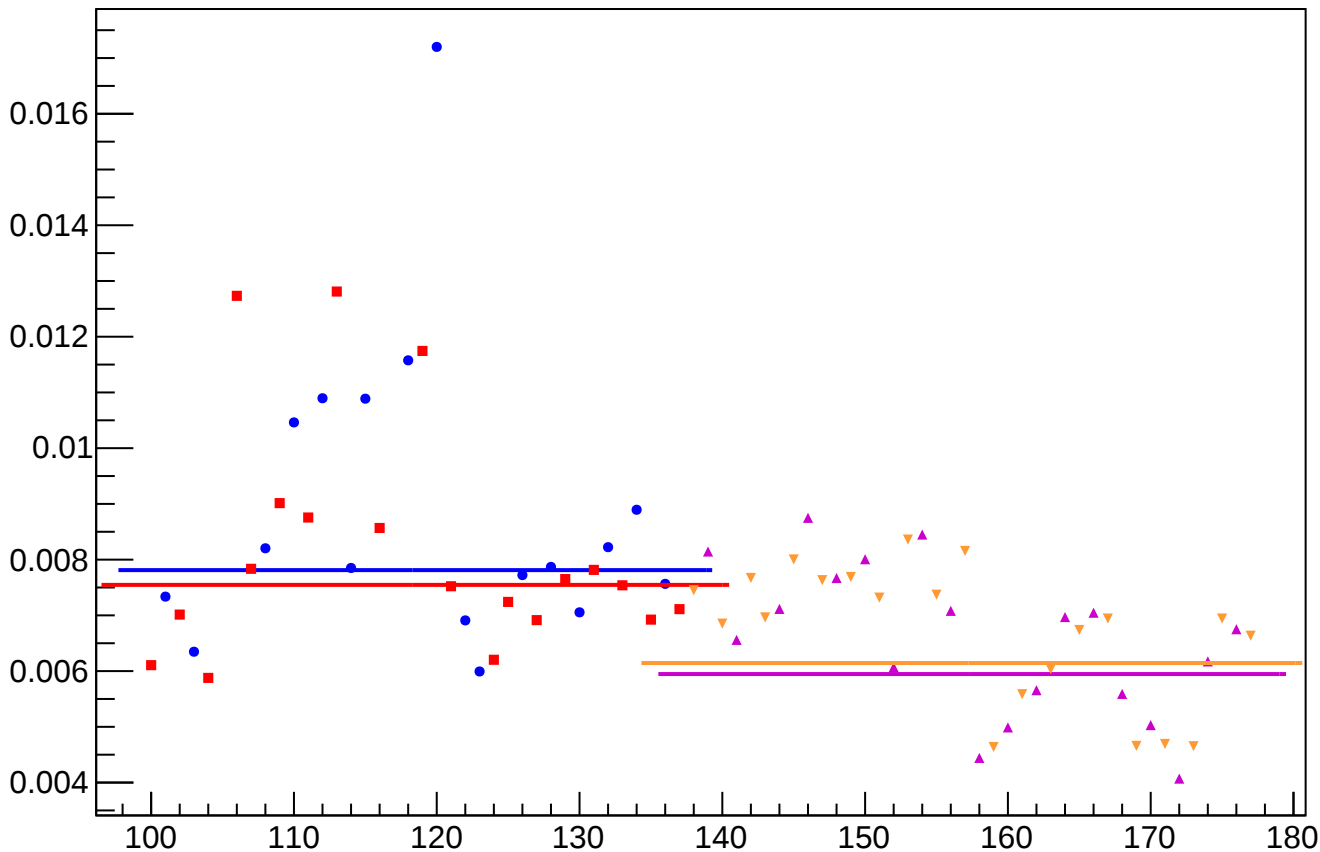
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.205+/-0.000 χ^2/NDF : 109063021839.2/35

Out: 1.188+/-0.000 χ^2/NDF : 122707654049.9/39

All: 1.197+/-0.000 χ^2/NDF : 231843383481.6

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 :1251319.7/20

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF :1317791.1/18

Left: 0.006+/-0.000 χ^2/NDF : 2583776.3/39

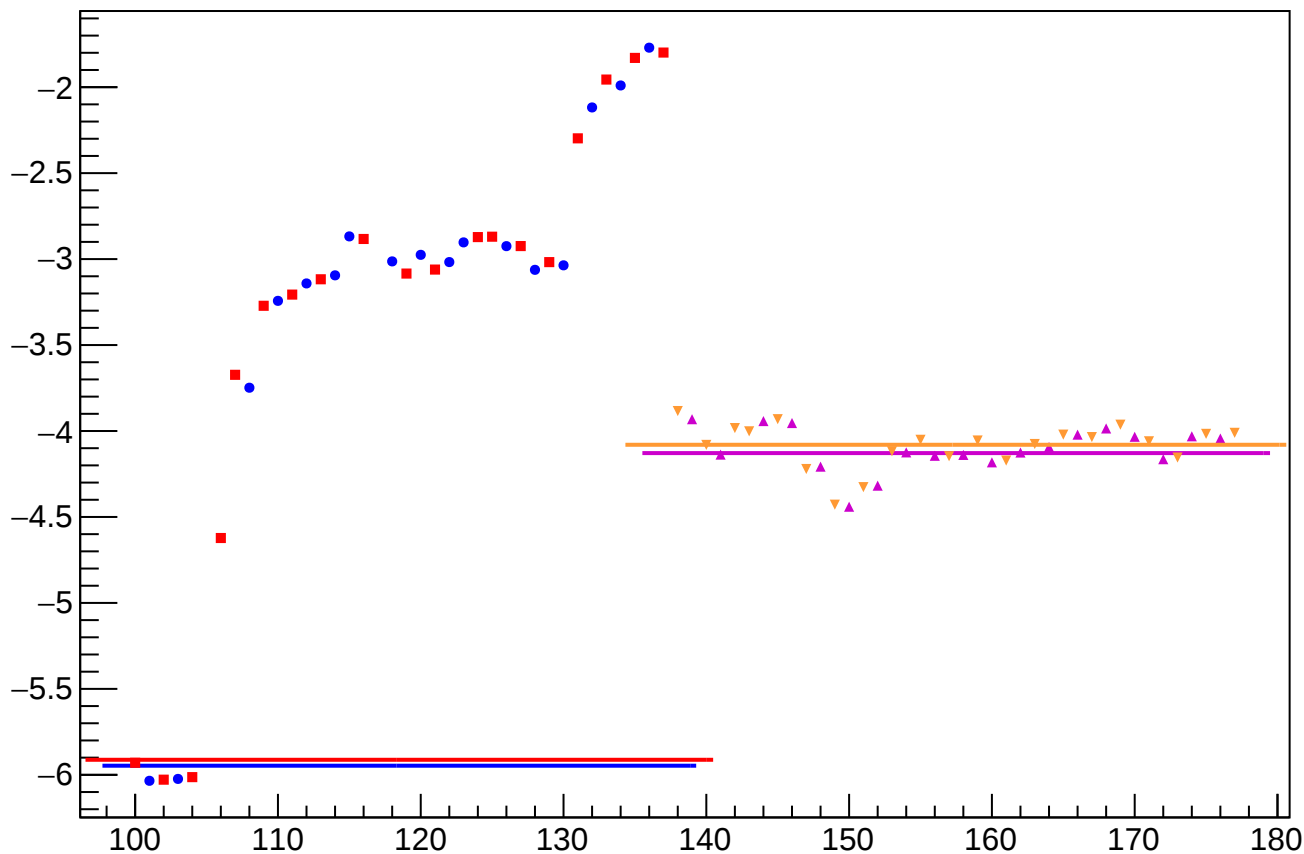
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2313084.9/35

Out: 0.006+/-0.000 χ^2/NDF :2024395.6/39

All: 0.006+/-0.000 χ^2/NDF : 4346097.8/75

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947 ± 0.000 $\chi^2/\text{NDF}: 13165963559.5/16$

Left Out: -4.080 ± 0.000 $\chi^2/\text{NDF}: 35382873.9/20$

Right Out: -5.912 ± 0.000 $\chi^2/\text{NDF}: 14619971495.0/18$

Left In: -4.129 ± 0.000 $\chi^2/\text{NDF}: 26410445.0/18$

Left: -4.105 ± 0.000 $\chi^2/\text{NDF}: 64357393.4/39$

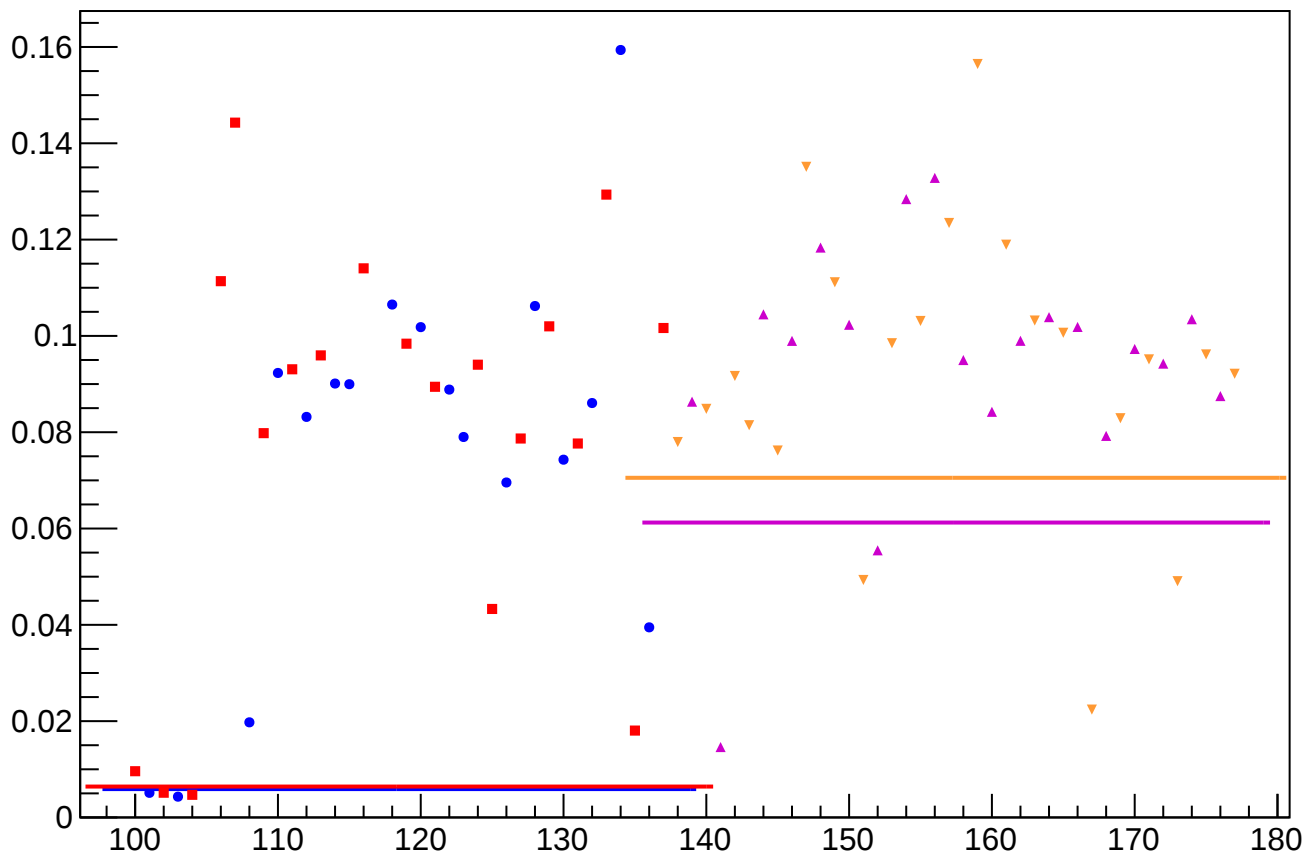
Right: -5.932 ± 0.000 $\chi^2/\text{NDF}: 27811040884.1/35$

In: -5.866 ± 0.000 $\chi^2/\text{NDF}: 20180619705.7/35$

Out: -5.814 ± 0.000 $\chi^2/\text{NDF}: 21527095031.5/39$

All: -5.843 ± 0.000 $\chi^2/\text{NDF}: 41766983865.5/78$

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.071+/-0.000 χ^2/NDF : 4916252.8/20

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.061+/-0.000 χ^2/NDF : 7274800.1/18

Left: 0.066+/-0.000 χ^2/NDF : 12379897.5/39

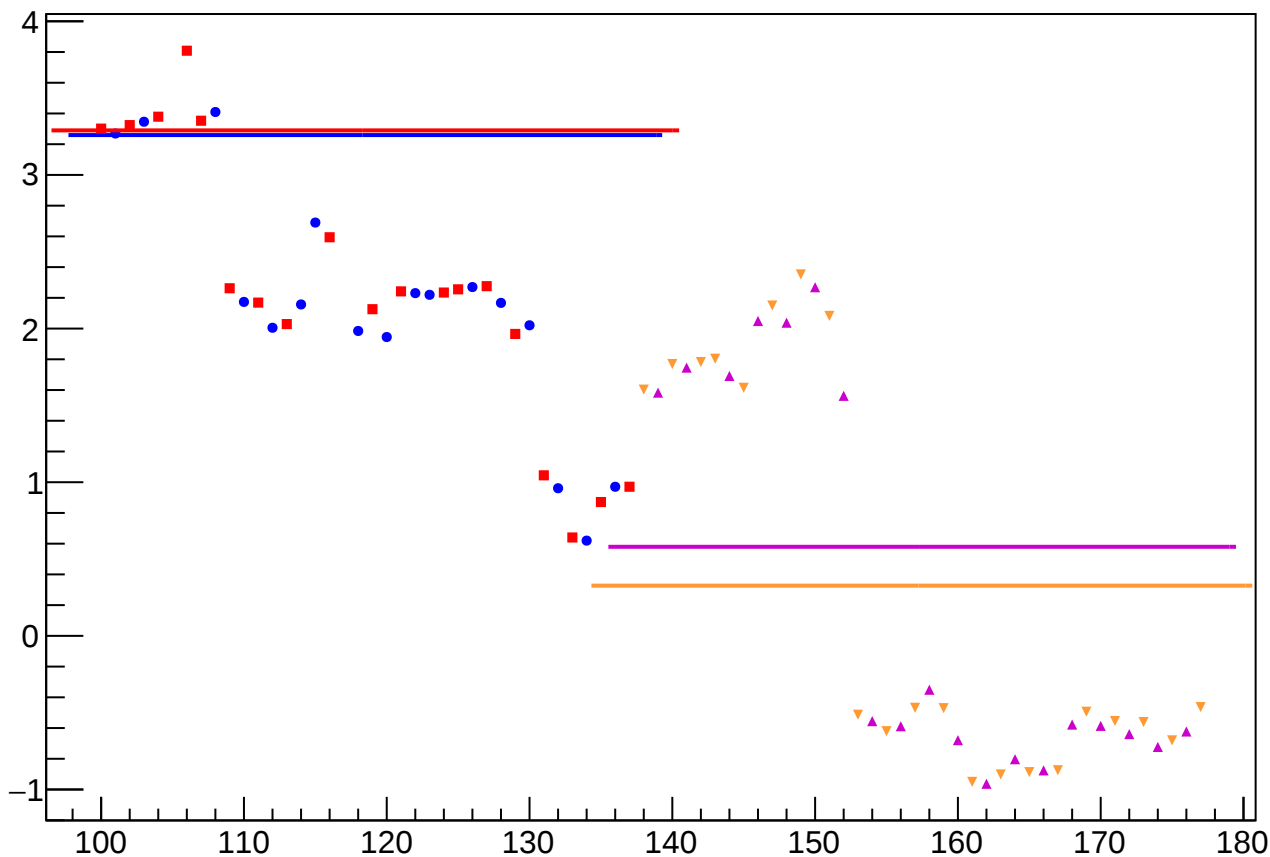
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 28159383.8/35

Out: 0.010+/-0.000 χ^2/NDF : 30242912.2/39

All: 0.009+/-0.000 χ^2/NDF : 58501707.0/75

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259 $\pm$ 0.000 χ^2 /NDF: 2921931976.8/16

Left Out: 0.327 $\pm$ 0.000 χ^2 /NDF: 2988460374.1/20

Right Out: 3.290 $\pm$ 0.000 χ^2 /NDF: 3262231575.5/18

Left In: 0.580 $\pm$ 0.000 χ^2 /NDF: 2402051300.6/18

Left: 0.444 $\pm$ 0.000 χ^2 /NDF: 5445255437.7/39

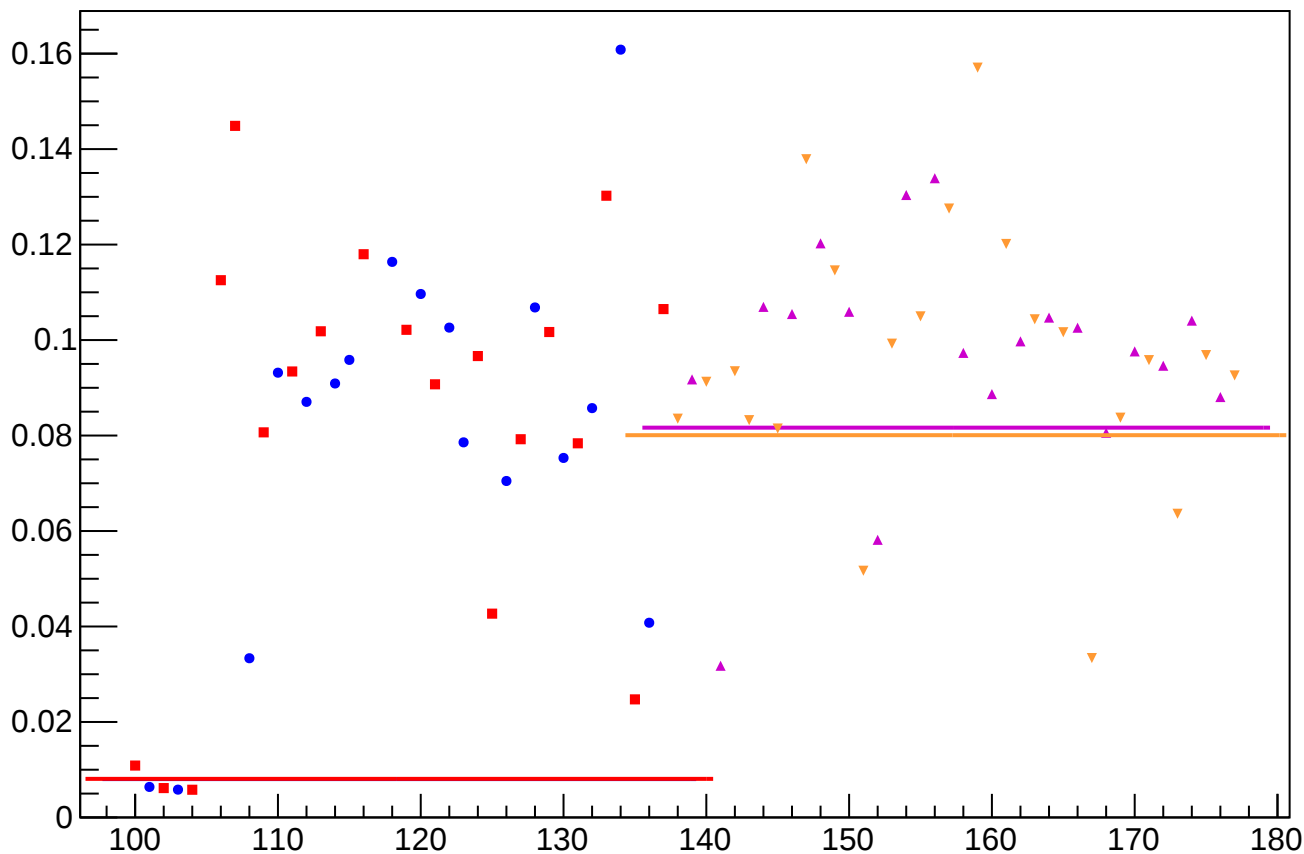
Right: 3.274 $\pm$ 0.000 χ^2 /NDF: 6196998308.4/35

In: 3.118 $\pm$ 0.000 χ^2 /NDF: 16198957555.1/35

Out: 3.097 $\pm$ 0.000 χ^2 /NDF: 21401498971.1/39

All: 3.108 $\pm$ 0.000 χ^2 /NDF: 37607263982.1/7

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:3140256.3/20

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8309426.5/18

Left In: 0.082 $\pm$ 0.000 χ^2 /NDF:2908893.1/18

Left: 0.081 $\pm$ 0.000 χ^2 /NDF: 6053419.5/39

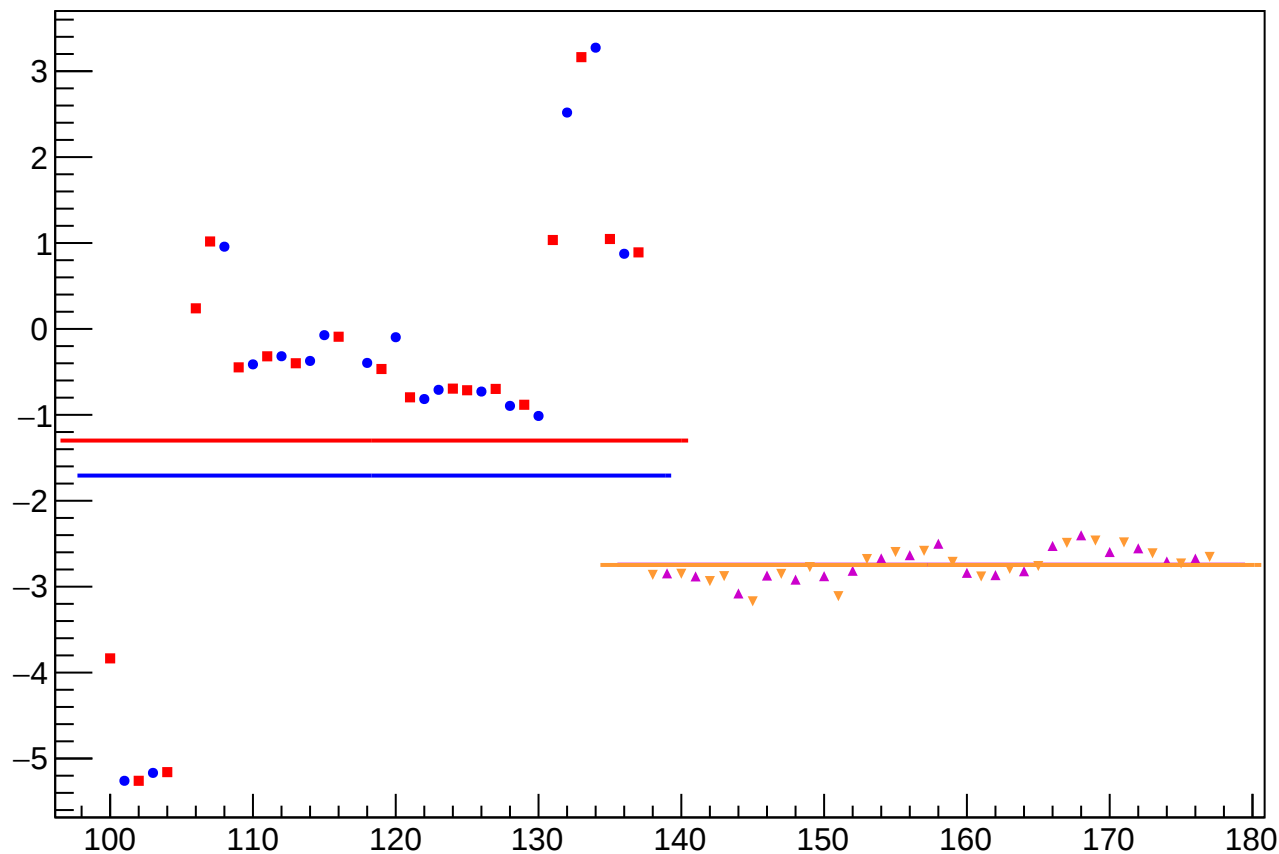
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16051528.4/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:27062525.6/35

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:29335374.6/39

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 56419649.1/75

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.747+/-0.000 χ^2/NDF : 8762493798.1/20

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.744+/-0.000 χ^2/NDF : 7105655461.5/18

Left: -2.746+/-0.000 χ^2/NDF : 15869322456.5/39

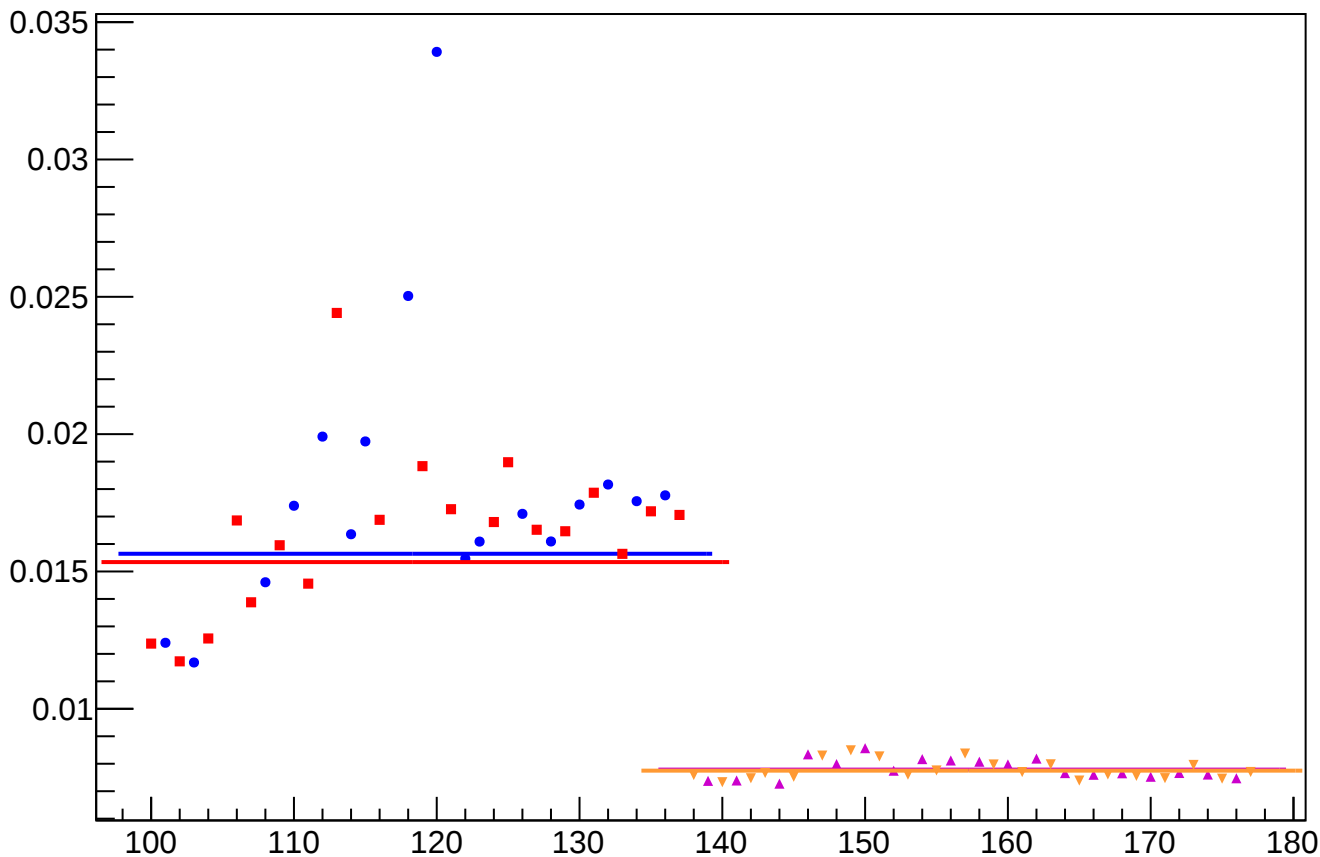
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.651+/-0.000 χ^2/NDF : 195660899906.9/35

Out: -2.611+/-0.000 χ^2/NDF : 236792174902.6/39

All: -2.630+/-0.000 χ^2/NDF : 432672437478.7

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF :52947.5/20

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF :57924.9/18

Left: 0.008+/-0.000 χ^2/NDF : 111220.2/39

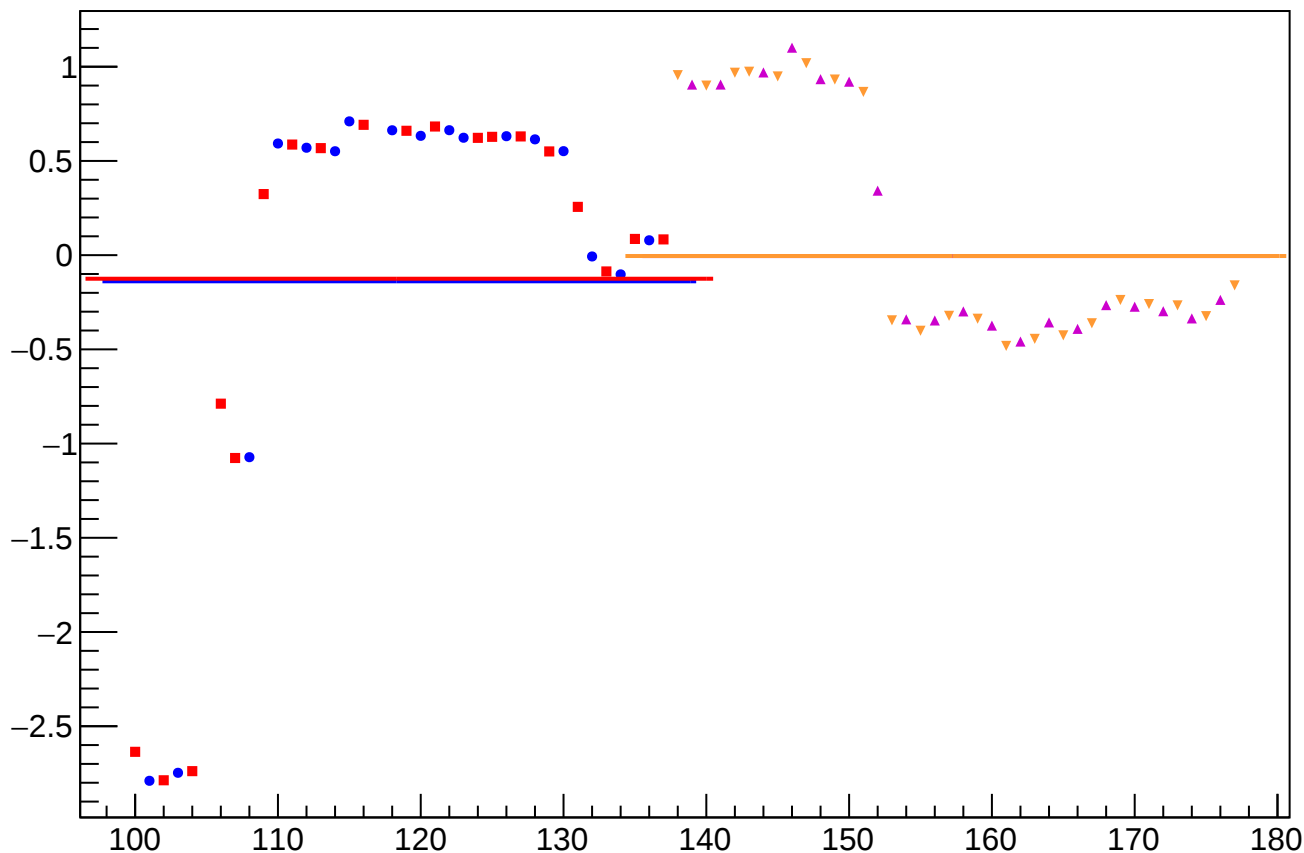
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.008+/-0.000 χ^2/NDF :3210943.3/35

Out: 0.008+/-0.000 χ^2/NDF :3156544.5/39

All: 0.008+/-0.000 χ^2/NDF : 6367663.4/75

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: -0.005+/-0.000

χ^2/NDF : 243366418524.6/39

Left Out: -0.005+/-0.000

χ^2/NDF : 131574116622.0/20

Right: -0.132+/-0.000

χ^2/NDF : 1476596319761.2/3

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

In: -0.081+/-0.000

χ^2/NDF : 830816209486.6/35

Out: -0.074+/-0.000

χ^2/NDF : 896550769093.6/39

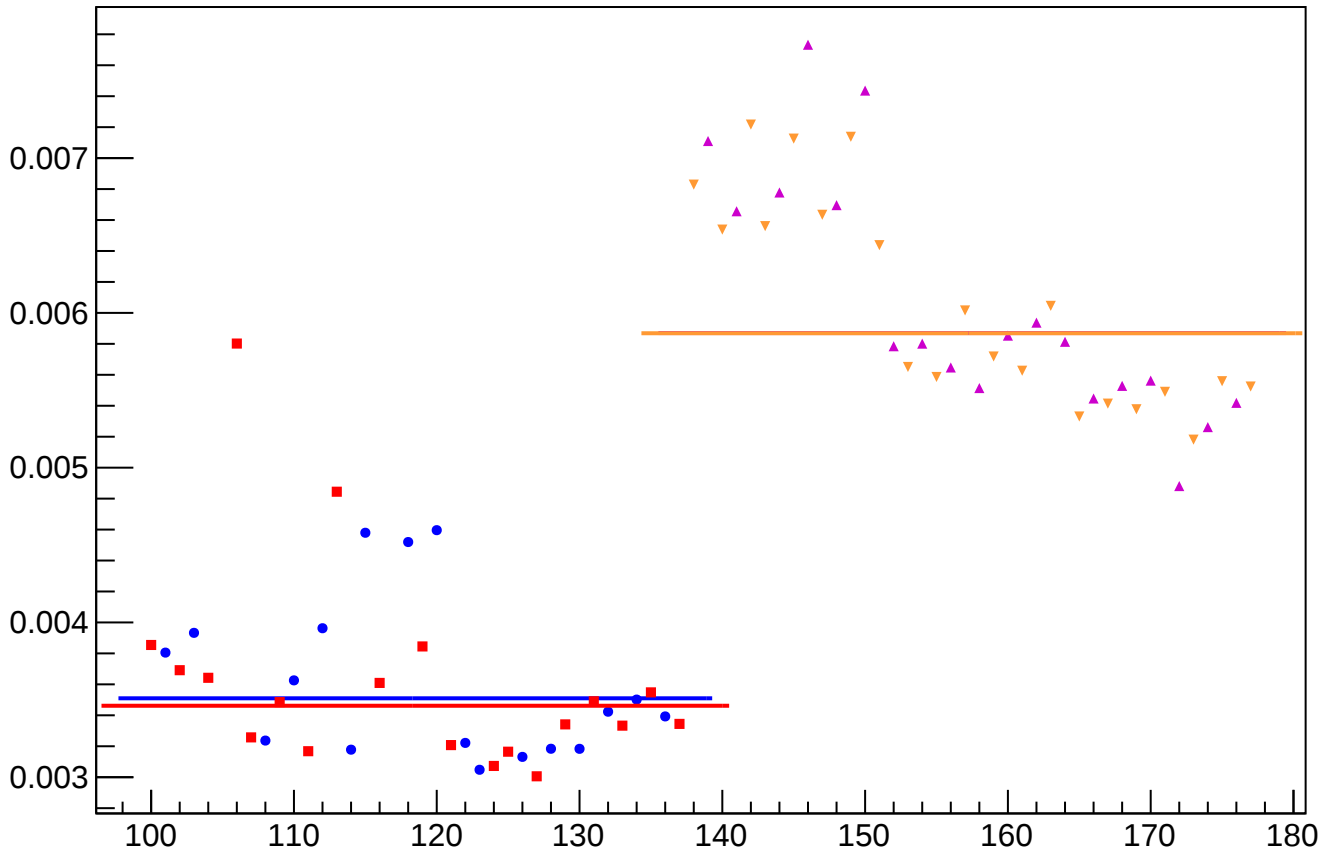
Left In: -0.005+/-0.000

χ^2/NDF : 111792289335.8/18

All: -0.077+/-0.000

χ^2/NDF : 1727391280201

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 171337.9/16

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:281316.3/20

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 215974.1/18

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:362418.4/18

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 643735.5/39

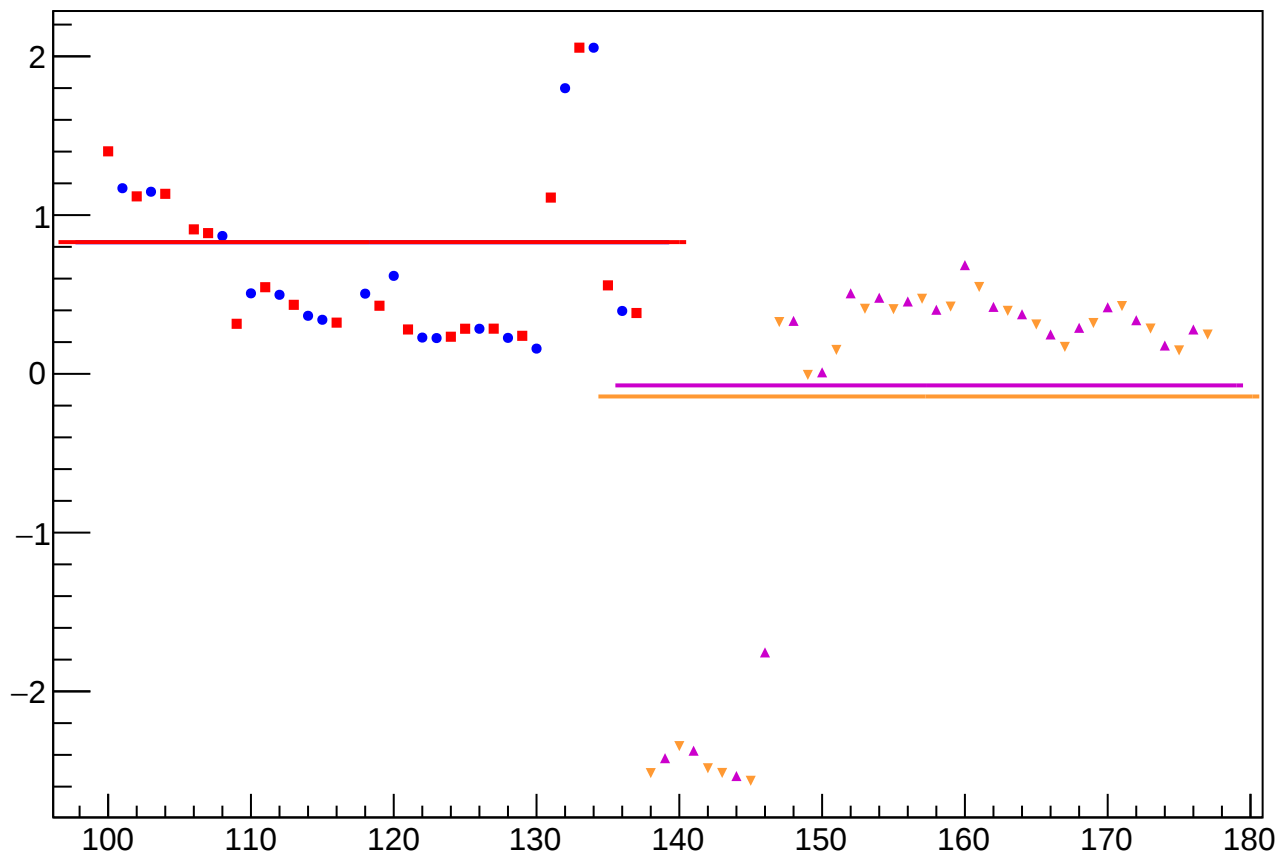
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 388552.5/35

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3003190.1/35

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:3272369.2/39

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 6277109.2/75

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2 /NDF: 31718573821.2/16

Left Out: -0.142+/-0.000 χ^2 /NDF: 482113050694.6/20

Right Out: 0.830+/-0.000 χ^2 /NDF: 33335665437.8/18

Left In: -0.073+/-0.000 χ^2 /NDF: 409575396998.5/18

Left: -0.109+/-0.000 χ^2 /NDF: 892728018559.9/39

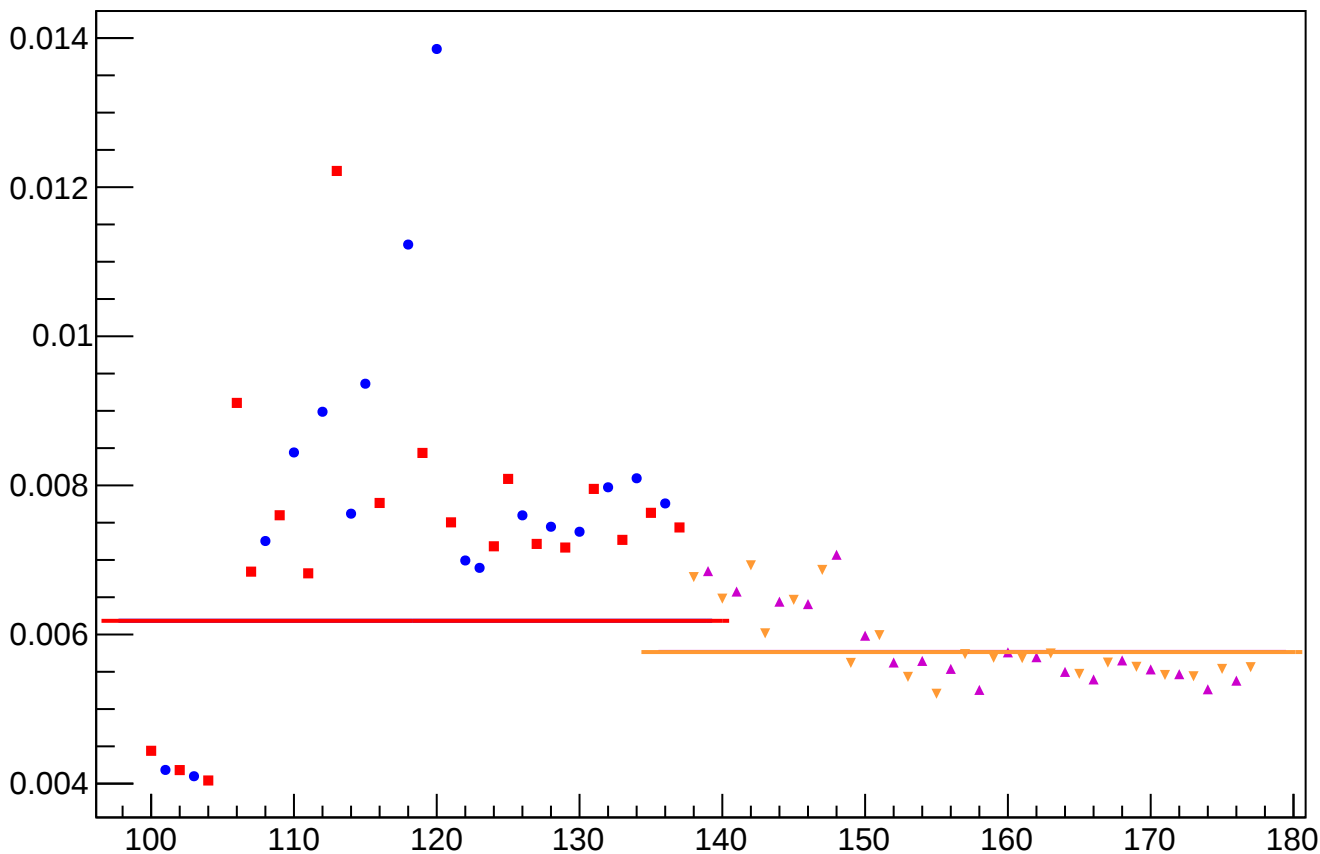
Right: 0.829+/-0.000 χ^2 /NDF: 65054312510.0/35

In: 0.154+/-0.000 χ^2 /NDF: 525842344642.0/35

Out: 0.106+/-0.000 χ^2 /NDF: 622372815146.8/39

All: 0.129+/-0.000 χ^2 /NDF: 1148882524834.0

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 :171209.6/20

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF :195427.7/18

Left: 0.006+/-0.000 χ^2/NDF : 366639.0/39

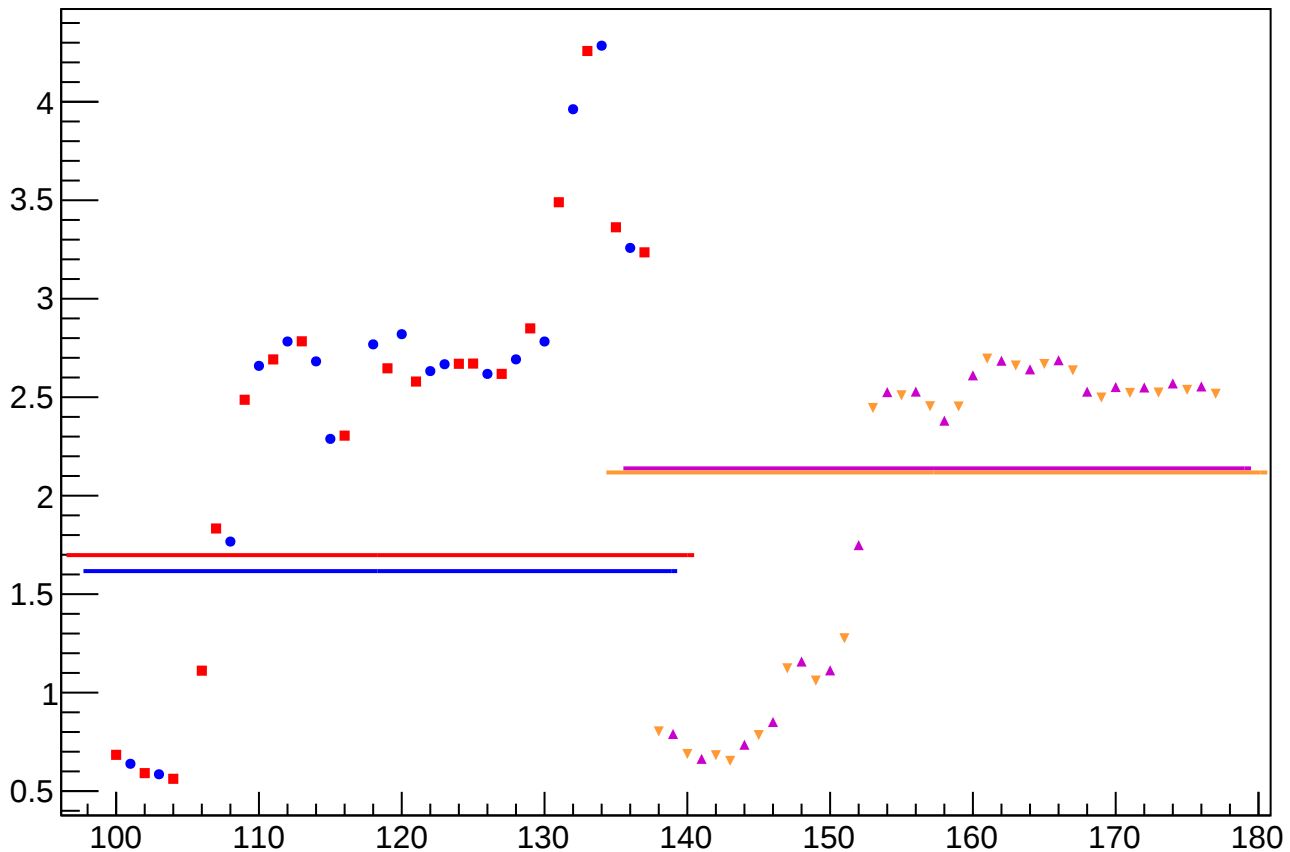
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1460742.7/35

Out: 0.006+/-0.000 χ^2/NDF :1237730.2/39

All: 0.006+/-0.000 χ^2/NDF : 2698472.9/75

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.118+/-0.000 χ^2/NDF : 277463980888.8/20

Right Out: 1.698+/-0.000 χ^2/NDF : 227408345801.7/18

Left In: 2.139+/-0.000 χ^2/NDF : 241855052044.2/18

Left: 2.128+/-0.000 χ^2/NDF : 519425541031.6/39

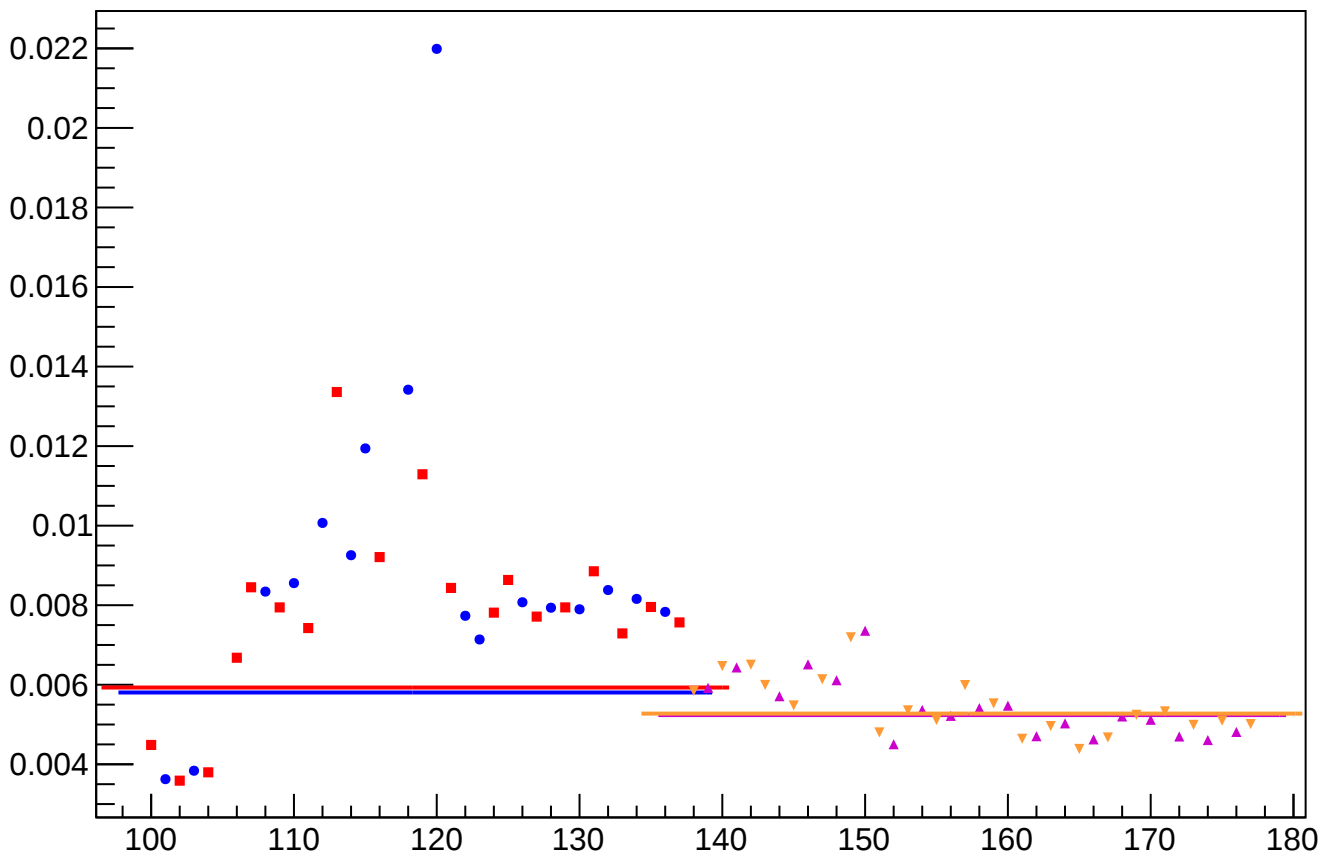
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 2.019+/-0.000 χ^2/NDF : 474793636336.2/35

Out: 2.021+/-0.000 χ^2/NDF : 525522380111.4/39

All: 2.020+/-0.000 χ^2/NDF : 1000317137659.

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 : 374501.1/20

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF : 416191.9/18

Left: 0.005+/-0.000 χ^2/NDF : 791385.9/39

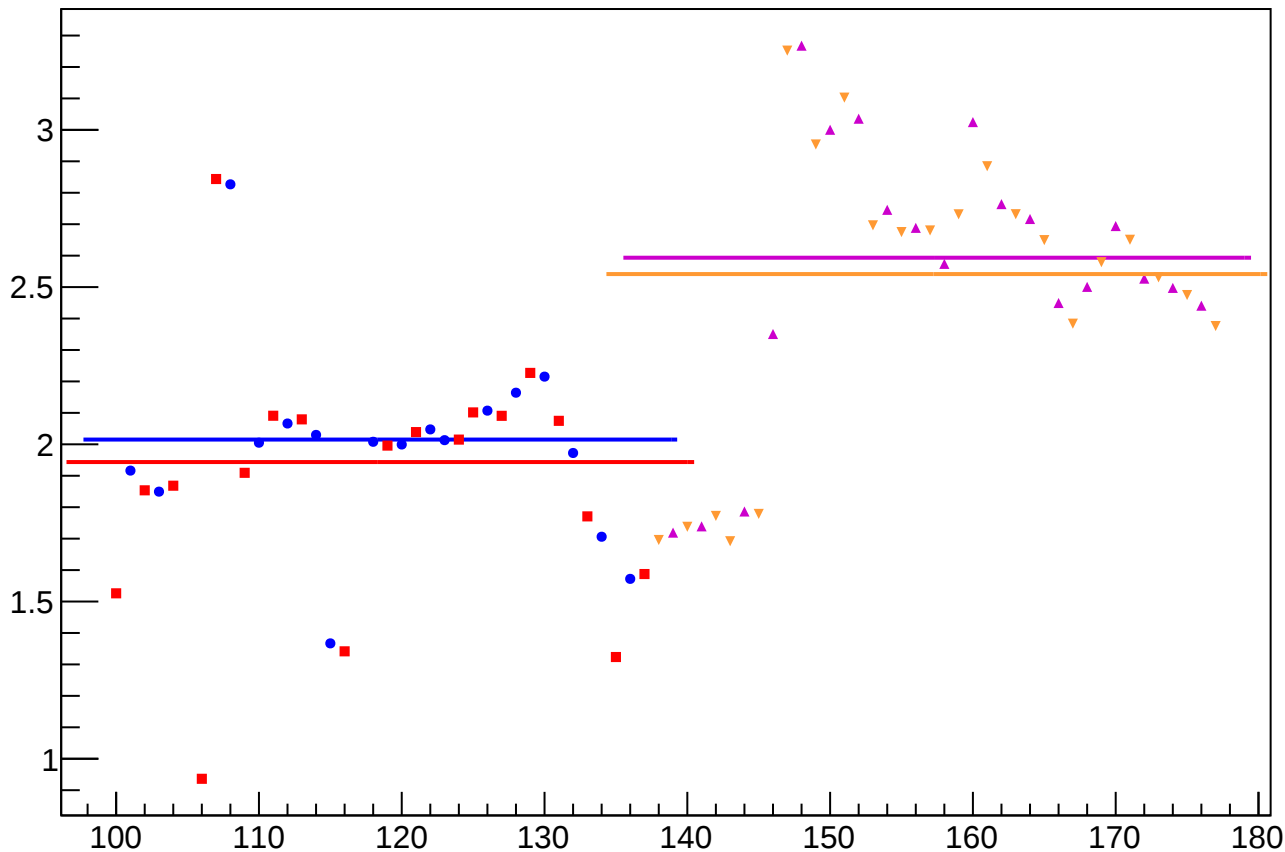
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF : 2405495.8/35

Out: 0.005+/-0.000 χ^2/NDF : 2160831.3/39

All: 0.005+/-0.000 χ^2/NDF : 4568528.9/75

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015 $\pm$ 0.000

χ^2/NDF : 12228403202.6/16

Left: 2.567 $\pm$ 0.000

χ^2/NDF : 91500959728.3/39

Left Out: 2.541 $\pm$ 0.000

χ^2/NDF : 49273317202.3/20

Right: 1.977 $\pm$ 0.000

χ^2/NDF : 34023853436.2/35

Right Out: 1.944 $\pm$ 0.000

χ^2/NDF : 21427099579.0/18

In: 2.395 $\pm$ 0.000

χ^2/NDF : 84168650837.1/35

Out: 2.330 $\pm$ 0.000

χ^2/NDF : 105863936078.0/39

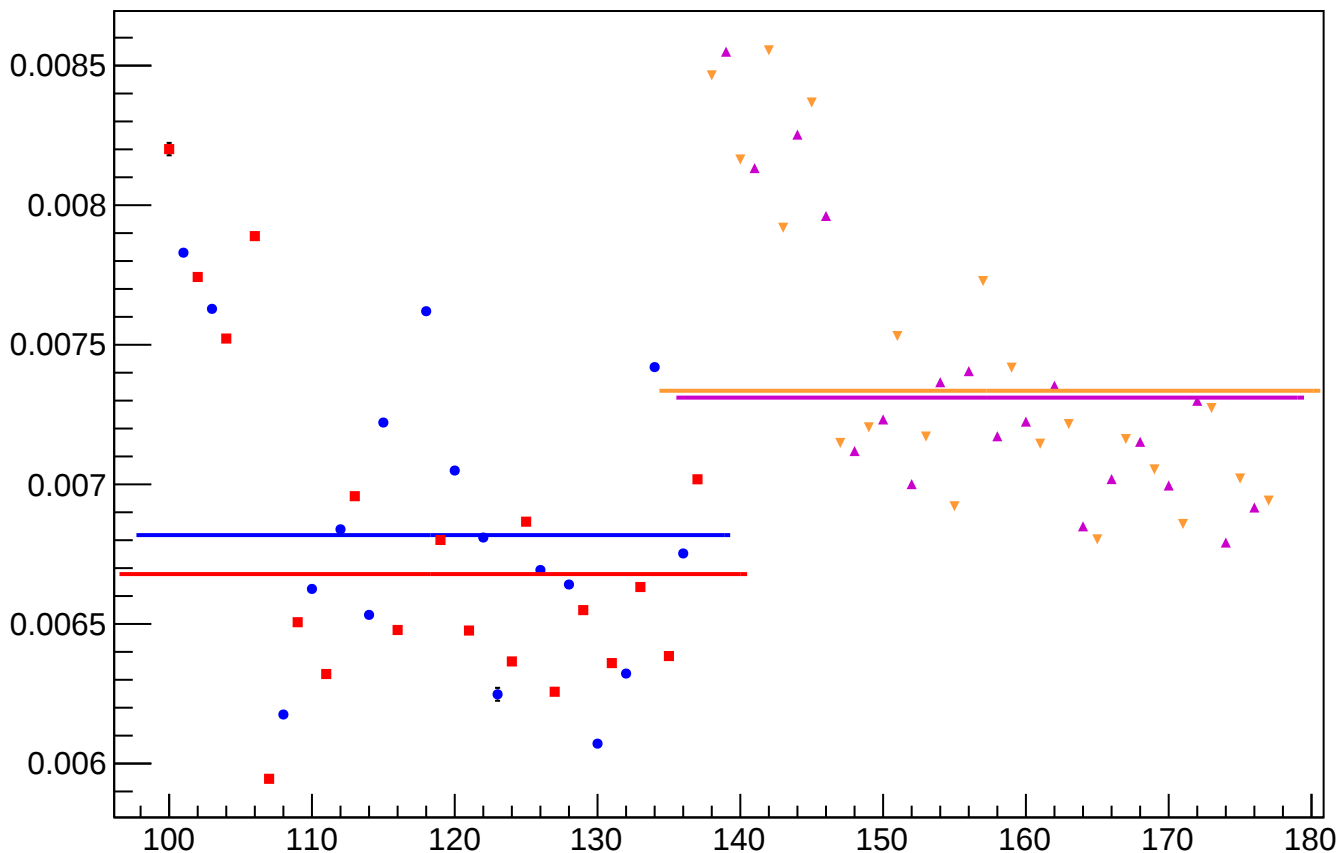
Left In: 2.593 $\pm$ 0.000

χ^2/NDF : 41862203920.5/18

All: 2.362 $\pm$ 0.000

χ^2/NDF : 190909424452.5

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 :124754.9/20

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF :105374.4/18

Left: 0.007+/-0.000 χ^2/NDF : 230292.2/39

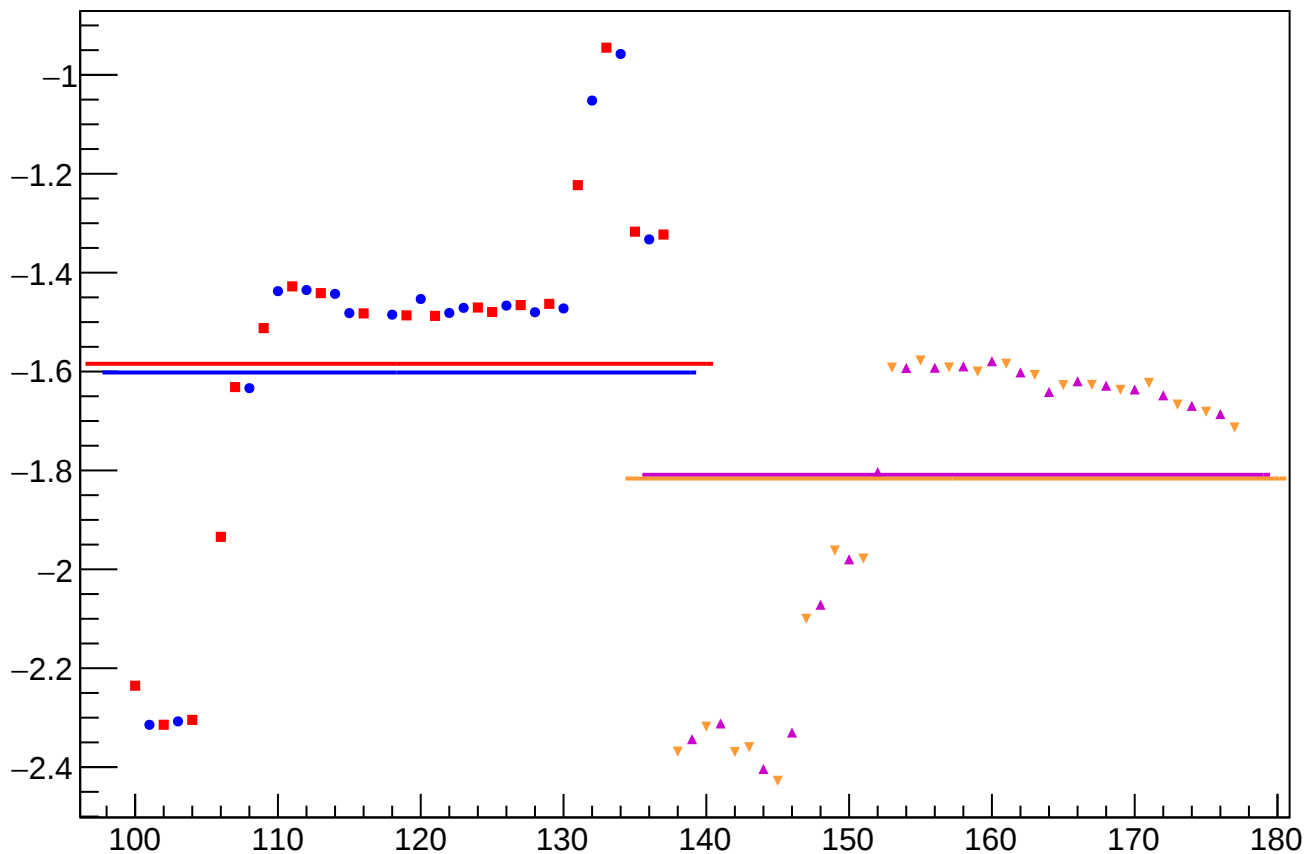
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :224799.1/35

Out: 0.007+/-0.000 χ^2/NDF :285306.8/39

All: 0.007+/-0.000 χ^2/NDF : 510726.4/75

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602 $\pm$ 0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.816 $\pm$ 0.000 χ^2/NDF : 175965432182.6/20

Right Out: -1.584 $\pm$ 0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.809 $\pm$ 0.000 χ^2/NDF : 155768851920.6/18

Left: -1.813 $\pm$ 0.000 χ^2/NDF : 331789009640.7/39

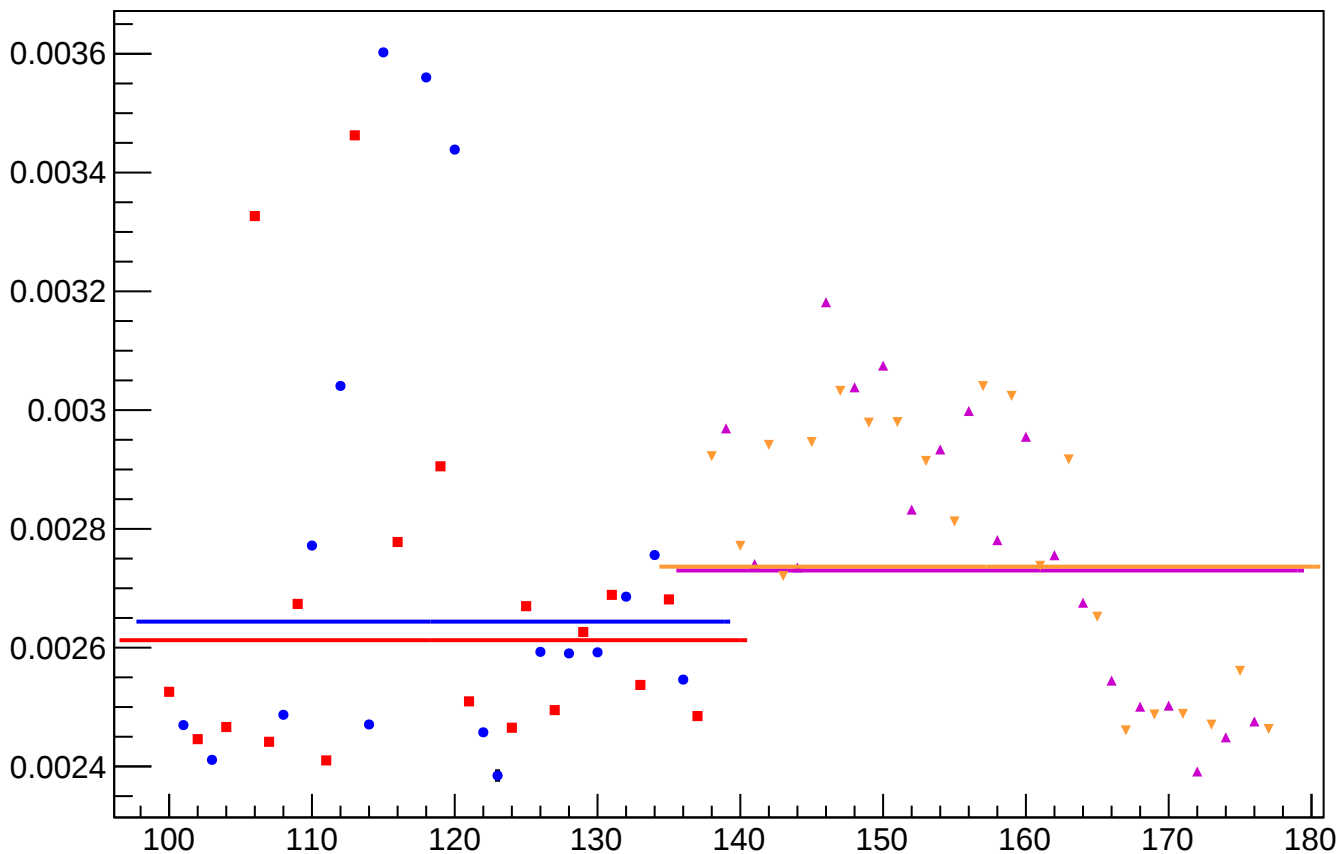
Right: -1.593 $\pm$ 0.000 χ^2/NDF : 283924451158.7/35

In: -1.742 $\pm$ 0.000 χ^2/NDF : 321993186015.6/35

Out: -1.740 $\pm$ 0.000 χ^2/NDF : 354908999064.8/39

All: -1.741 $\pm$ 0.000 χ^2/NDF : 676906605671.0

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 :185561.4/20

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :199746.2/18

Left: 0.003+/-0.000 χ^2/NDF : 385386.9/39

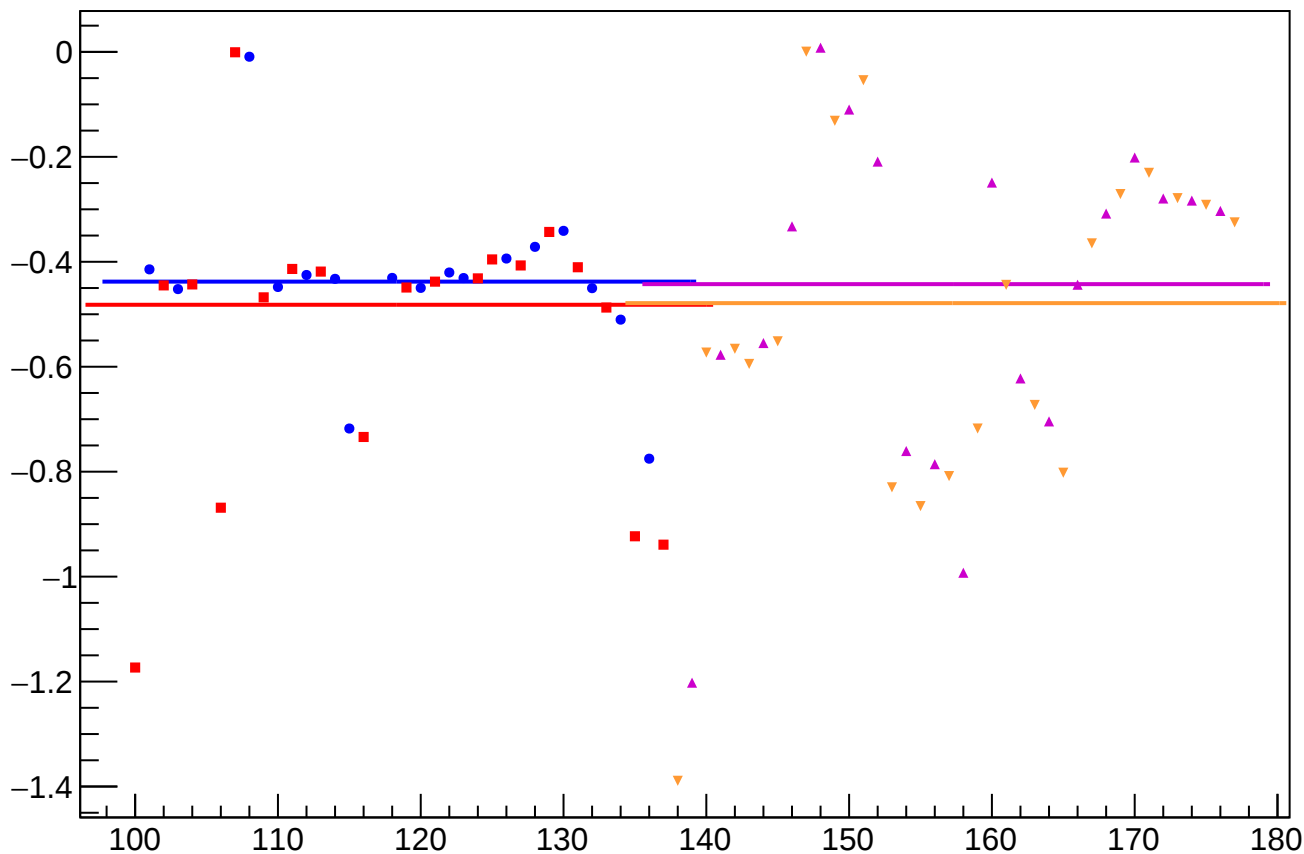
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :360151.8/35

Out: 0.003+/-0.000 χ^2/NDF :311000.2/39

All: 0.003+/-0.000 χ^2/NDF : 671270.2/75

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.479+/-0.000 χ^2/NDF : 9604143565.4/20

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.443+/-0.000 χ^2/NDF : 8261608576.9/18

Left: -0.461+/-0.000 χ^2/NDF : 17928939019.2/39

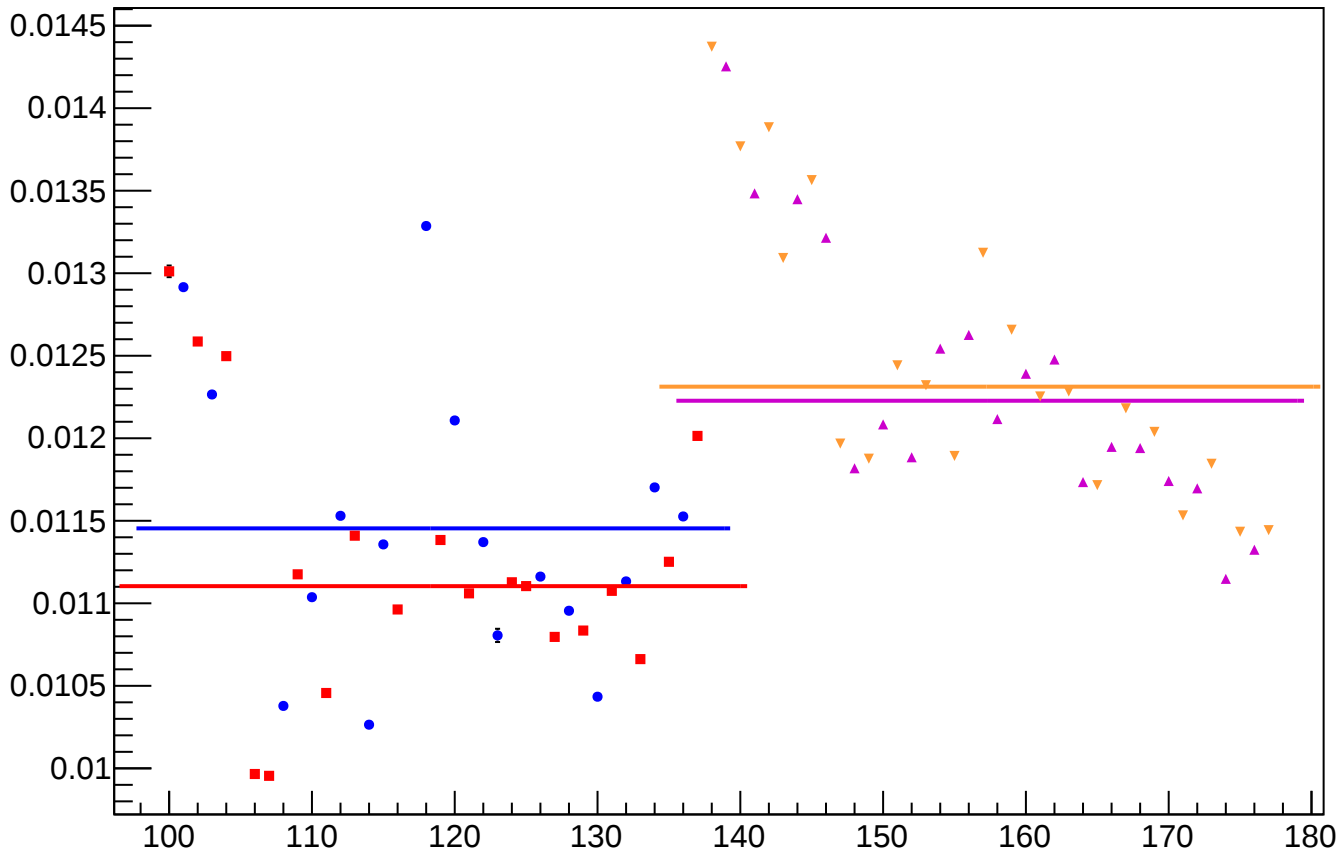
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.441+/-0.000 χ^2/NDF : 9724807998.8/35

Out: -0.480+/-0.000 χ^2/NDF : 12299117753.4/39

All: -0.461+/-0.000 χ^2/NDF : 22137177021.5/78

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 :114540.3/20

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.012+/-0.000 χ^2/NDF :100804.1/18

Left: 0.012+/-0.000 χ^2/NDF : 216046.3/39

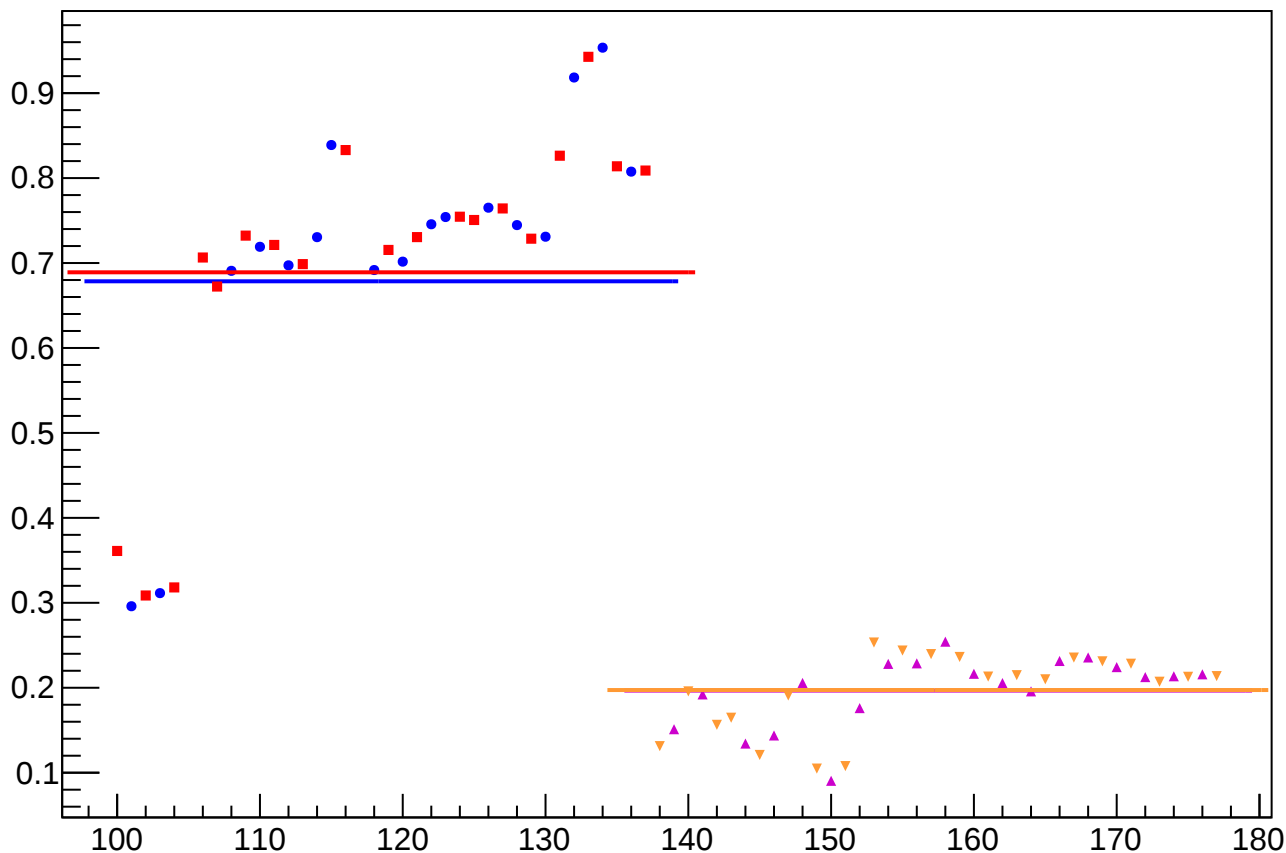
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF :204144.2/35

Out: 0.012+/-0.000 χ^2/NDF :275550.3/39

All: 0.012+/-0.000 χ^2/NDF : 480774.5/75

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.197+/-0.000 χ^2/NDF : 6644898587.1/20

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.197+/-0.000 χ^2/NDF : 5298807556.8/18

Left: 0.197+/-0.000 χ^2/NDF : 11944408984.9/39

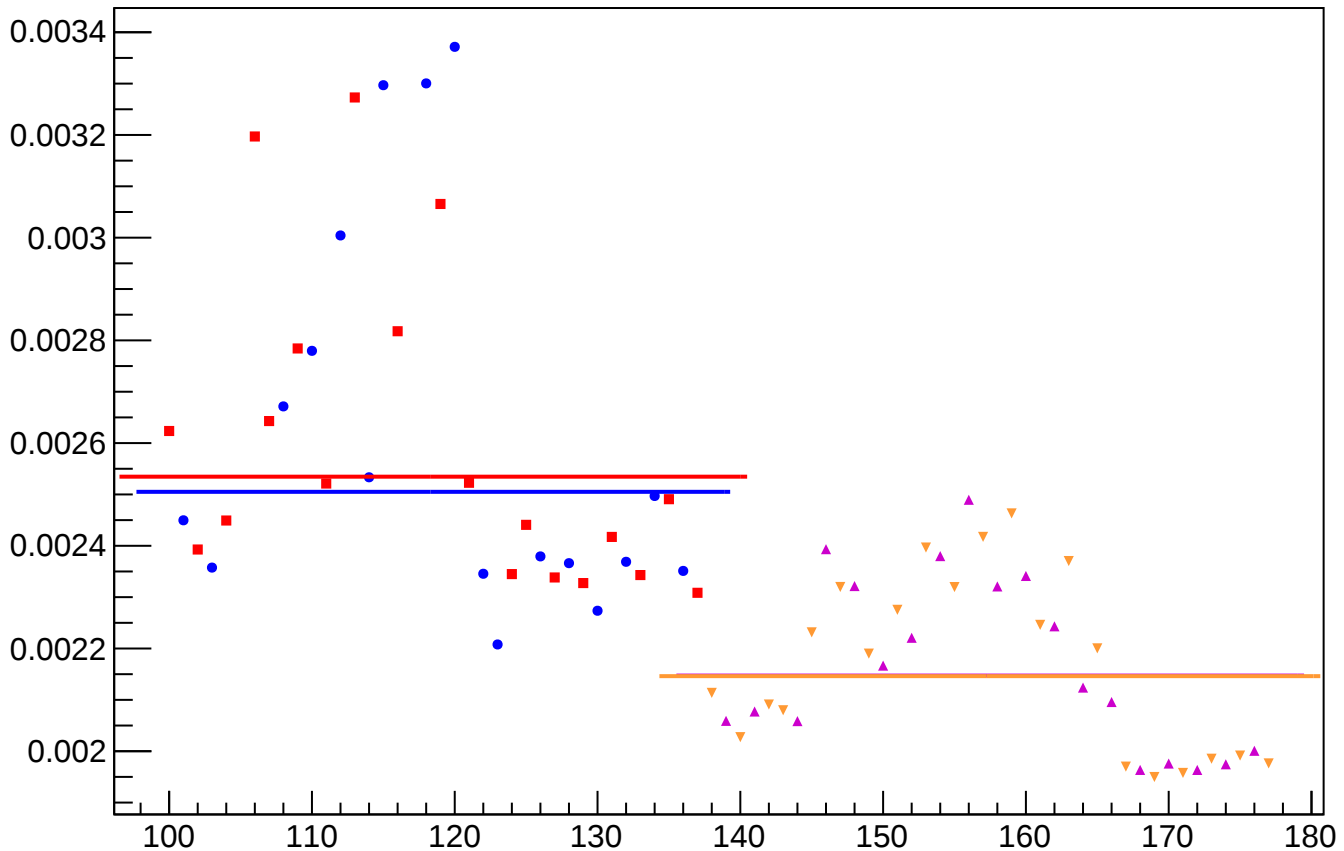
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.315+/-0.000 χ^2/NDF : 221841460013.8/35

Out: 0.313+/-0.000 χ^2/NDF : 234722746046.9/39

All: 0.314+/-0.000 χ^2/NDF : 456567063560.9

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 175524.0/16

Left Out: 0.002+/-0.000 χ^2/NDF :187444.9/20

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF :162036.1/18

Left: 0.002+/-0.000 χ^2/NDF : 349485.3/39

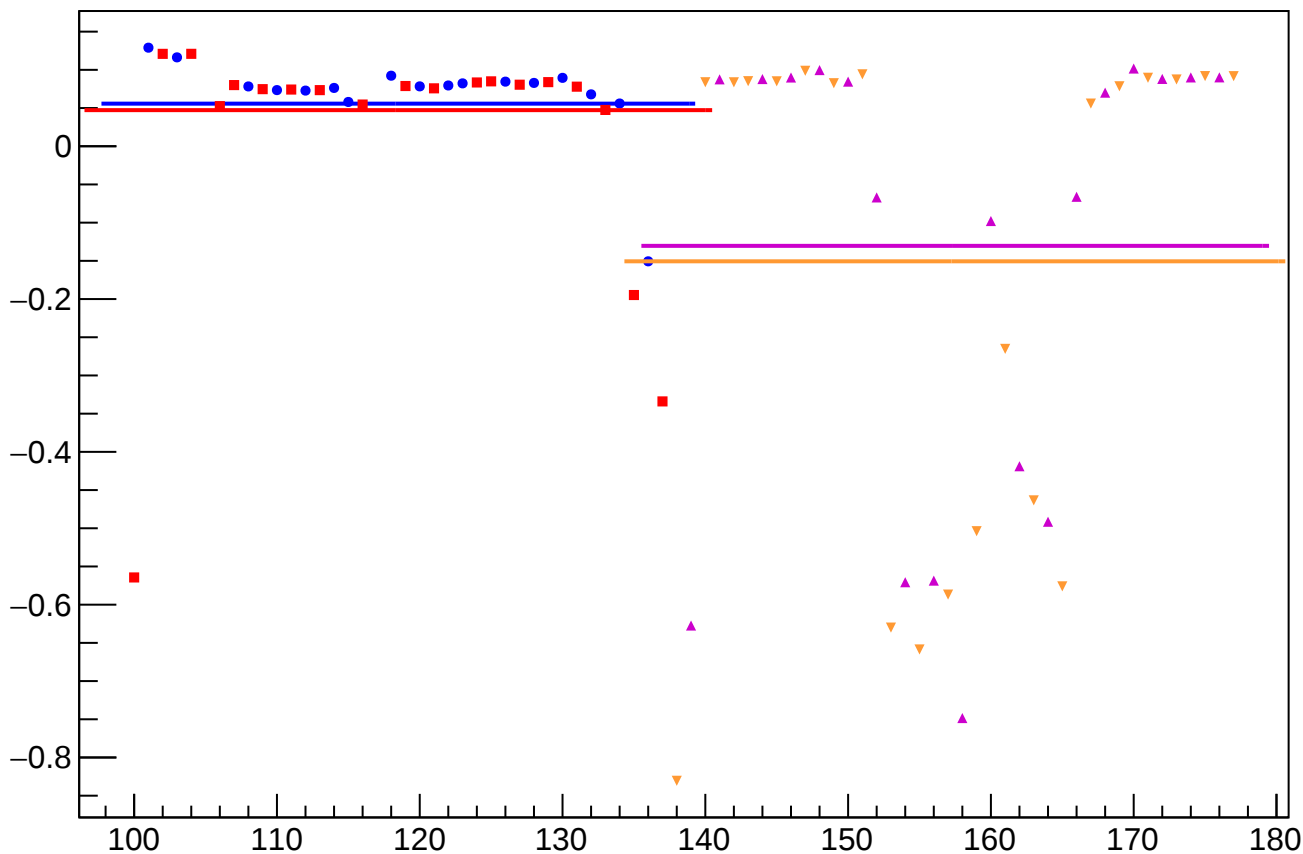
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :533889.5/35

Out: 0.002+/-0.000 χ^2/NDF :559538.7/39

All: 0.002+/-0.000 χ^2/NDF : 1093466.8/75

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 423003688.1/16

Left: -0.141+/-0.000

χ^2/NDF : 22714180827.4/39

Left Out: -0.151+/-0.000

χ^2/NDF : 12574428752.4/20

Right: 0.051+/-0.000

χ^2/NDF : 1245197626.4/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819588537.2/18

In: -0.061+/-0.000

χ^2/NDF : 12009686104.9/35

Out: -0.074+/-0.000

χ^2/NDF : 15246070244.3/39

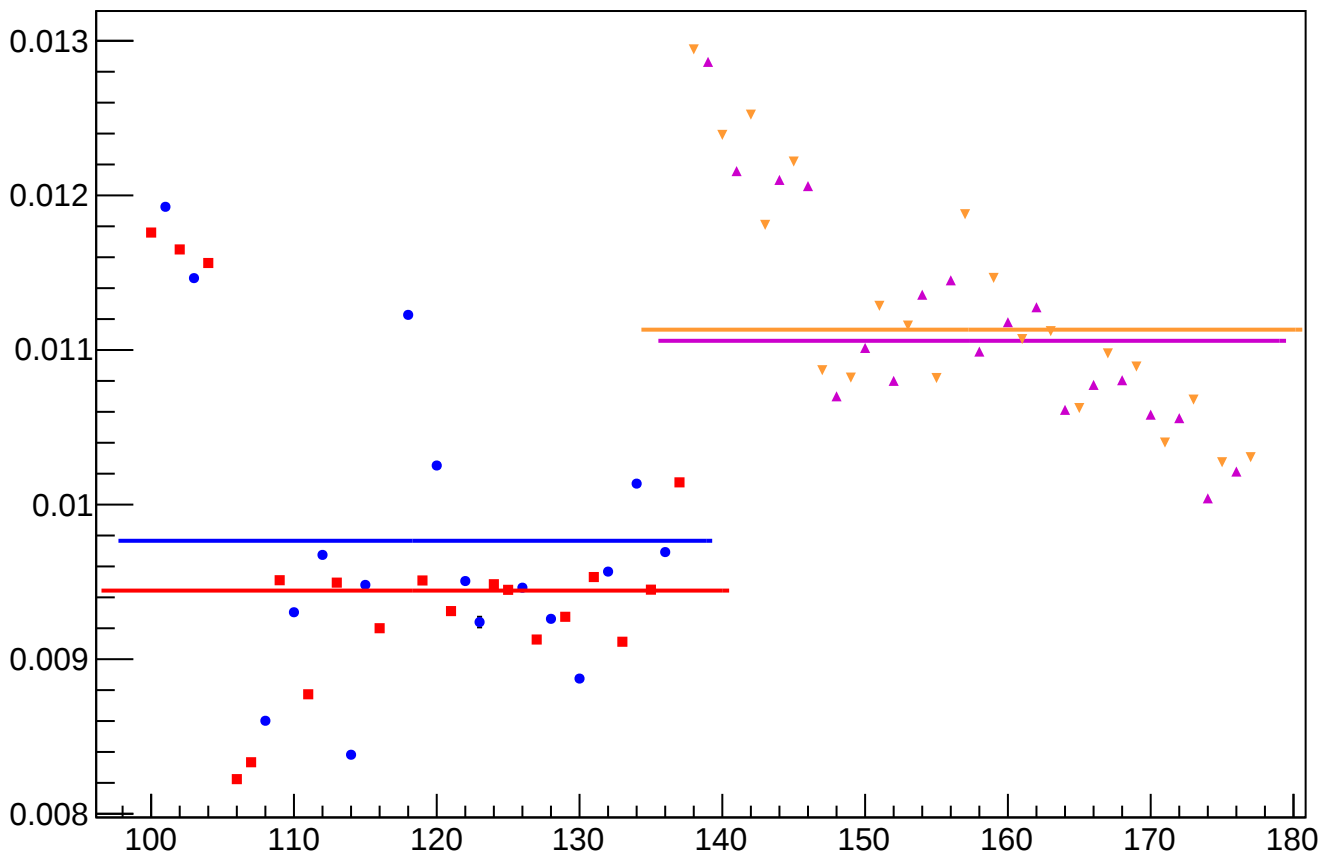
Left In: -0.130+/-0.000

χ^2/NDF : 10115570084.5/18

All: -0.068+/-0.000

χ^2/NDF : 27270184029.1/1

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 :112537.8/20

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF :102216.2/18

Left: 0.011+/-0.000 χ^2/NDF : 215367.1/39

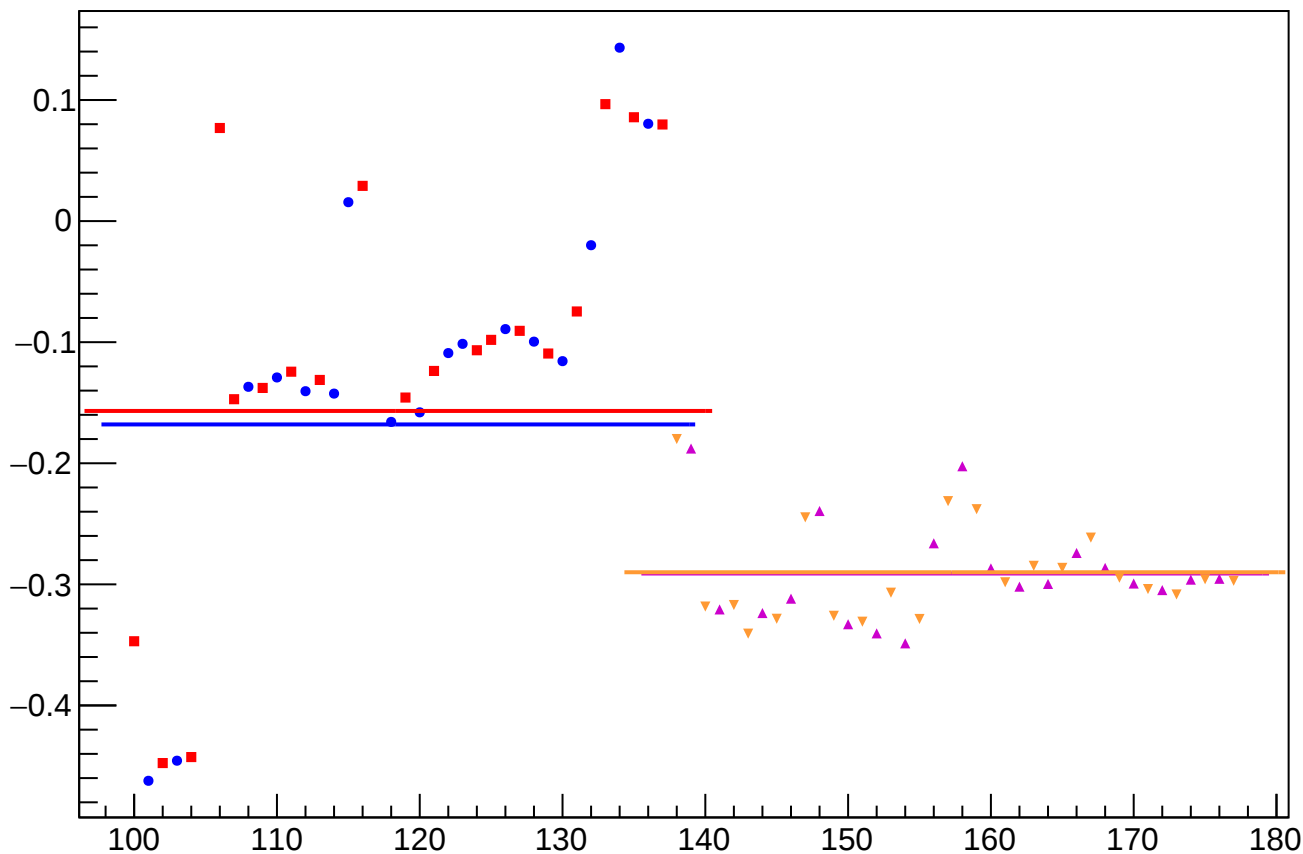
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF :360972.8/35

Out: 0.010+/-0.000 χ^2/NDF :492757.0/39

All: 0.011+/-0.000 χ^2/NDF : 855807.3/75

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.290+/-0.000 χ^2/NDF : 2856539265.8/20

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.291+/-0.000 χ^2/NDF : 3119830550.1/18

Left: -0.291+/-0.000 χ^2/NDF : 5977407226.2/39

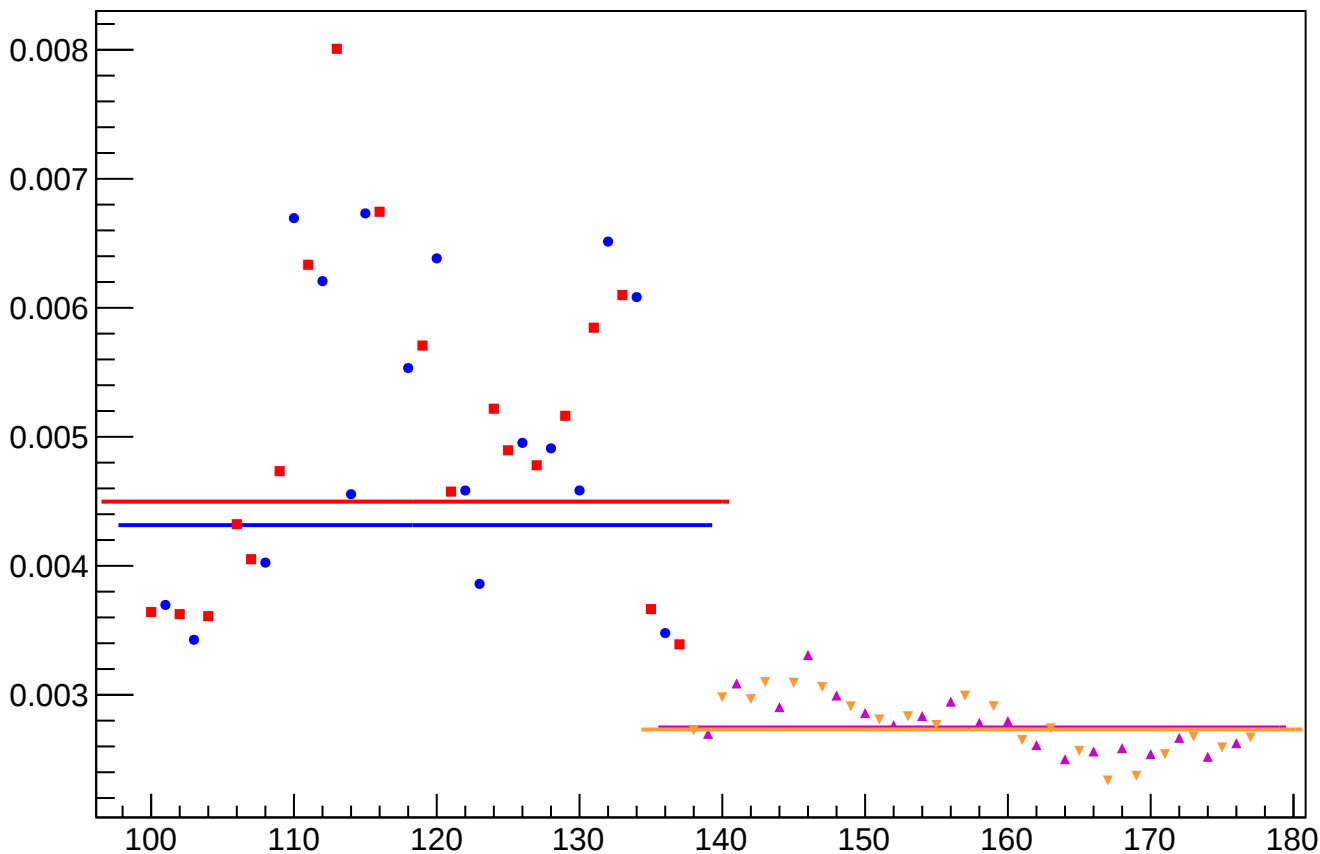
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.273+/-0.000 χ^2/NDF : 19498132724.0/35

Out: -0.272+/-0.000 χ^2/NDF : 18619760807.3/39

All: -0.273+/-0.000 χ^2/NDF : 38118805748.1/74

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :196533.2/20

Right Out: 0.004+/-0.000 χ^2/NDF : 649708.4/18

Left In: 0.003+/-0.000 χ^2/NDF :140704.8/18

Left: 0.003+/-0.000 χ^2/NDF : 337714.5/39

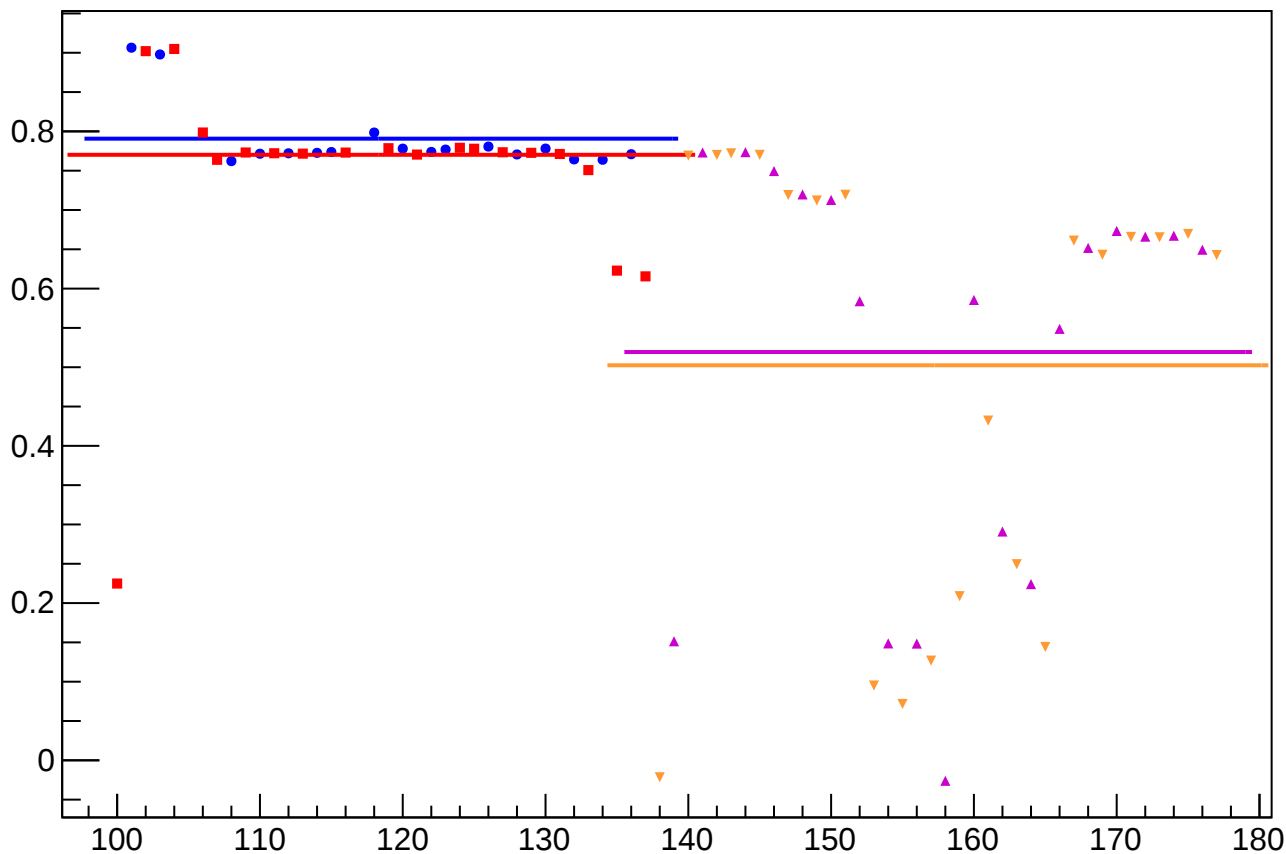
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :2073733.6/35

Out: 0.003+/-0.000 χ^2/NDF :2511500.3/39

All: 0.003+/-0.000 χ^2/NDF : 4585386.9/75

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.502+/-0.000 χ^2/NDF : 9217928554.3/20

Right Out: 0.770+/-0.000 χ^2/NDF : 375442189.7/18

Left In: 0.519+/-0.000 χ^2/NDF : 7574890969.6/18

Left: 0.511+/-0.000 χ^2/NDF : 16810466064.9/39

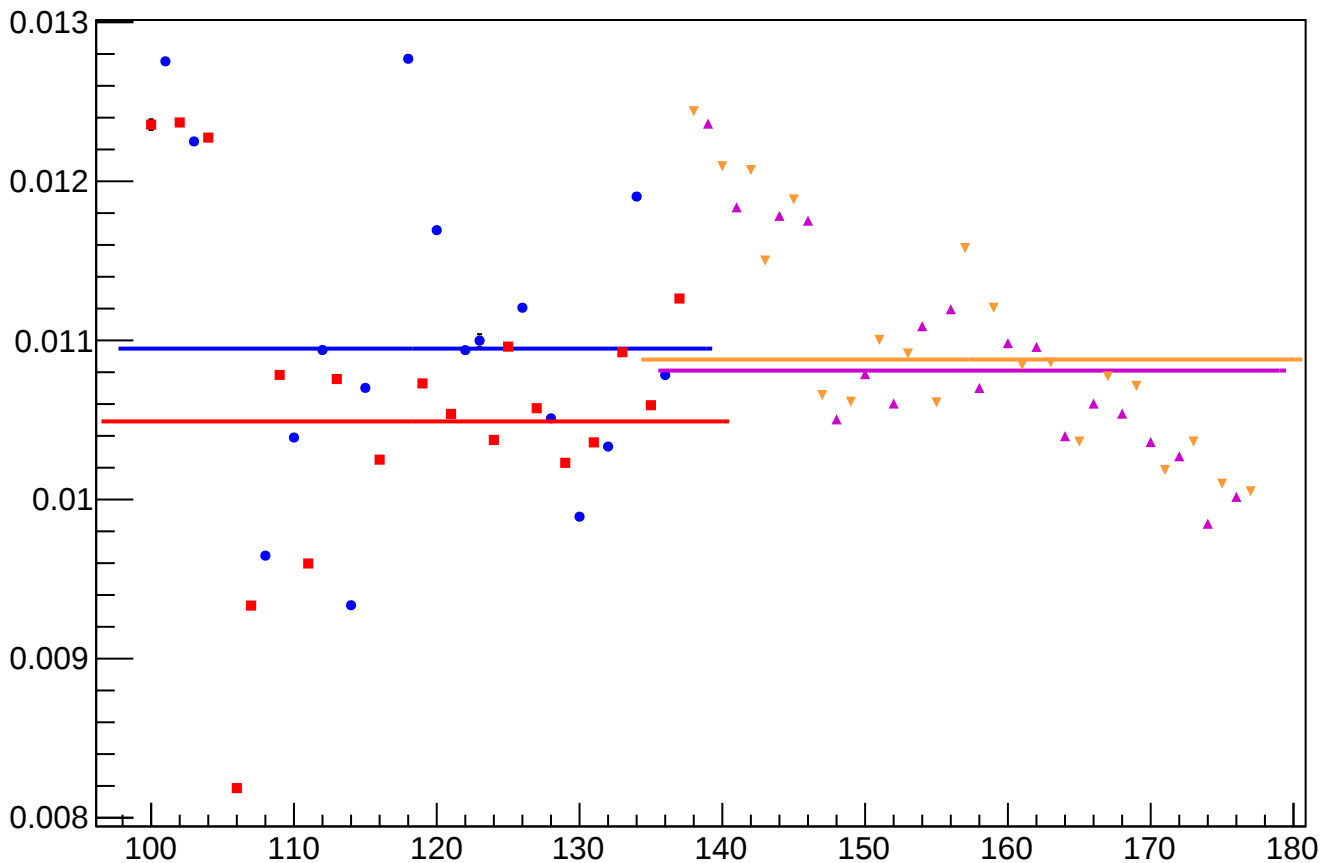
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.603+/-0.000 χ^2/NDF : 10420177649.0/35

Out: 0.590+/-0.000 χ^2/NDF : 12611007323.7/39

All: 0.596+/-0.000 χ^2/NDF : 23045608817.1/7

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 98551.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:101935.6/20

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 119420.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:92295.4/18

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 194828.3/39

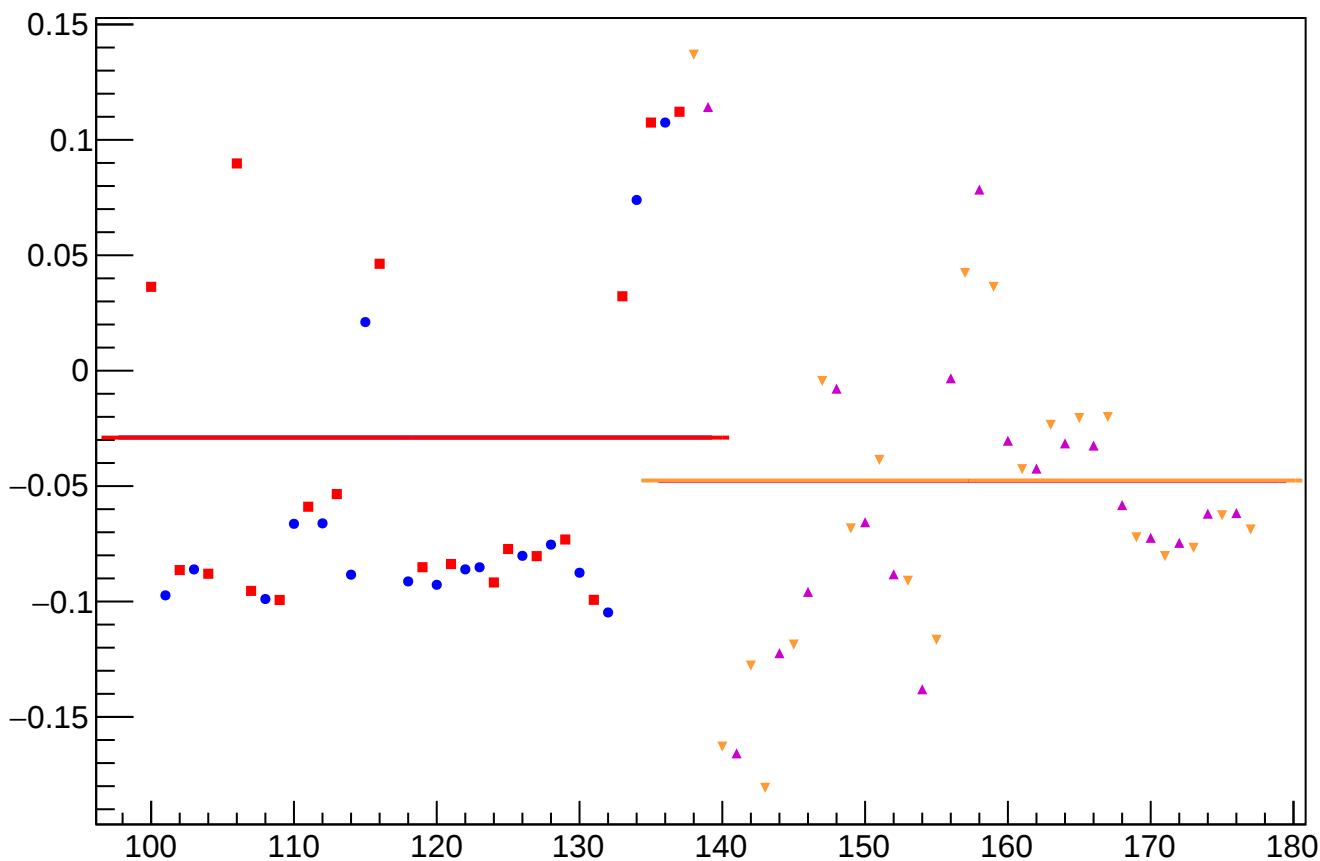
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 230086.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:192261.0/35

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:234091.0/39

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 428209.3/75

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.048+/-0.000

χ^2/NDF : 13176449938.9/39

Left Out: -0.048+/-0.000

χ^2/NDF : 7128550482.2/20

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.045+/-0.000

χ^2/NDF : 8584294805.9/35

Out: -0.045+/-0.000

χ^2/NDF : 9327682411.0/39

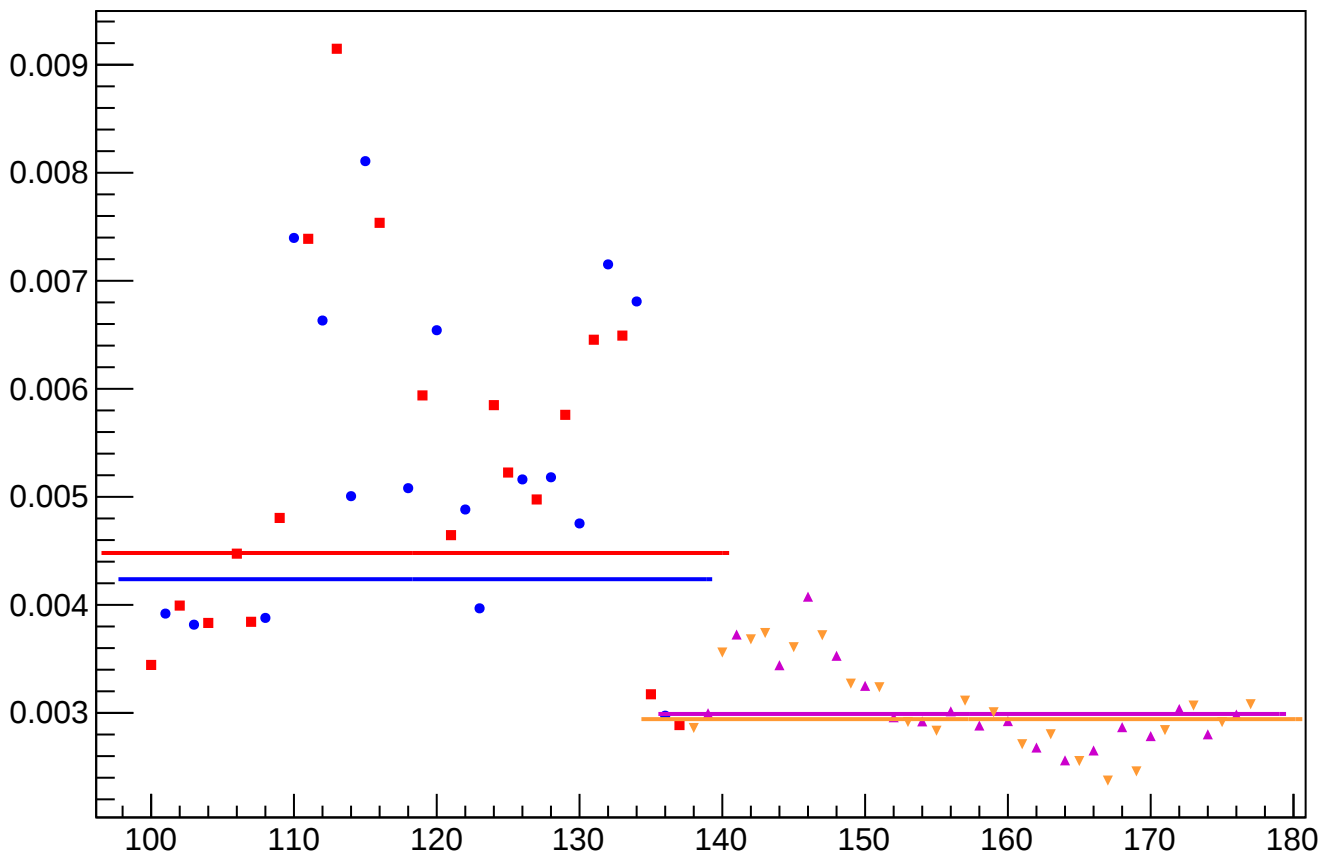
Left In: -0.048+/-0.000

χ^2/NDF : 6047852536.6/18

All: -0.045+/-0.000

χ^2/NDF : 17912007548.8/160

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 881584.1/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 467246.1/20

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 984186.1/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 316068.4/18

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 786999.7/39

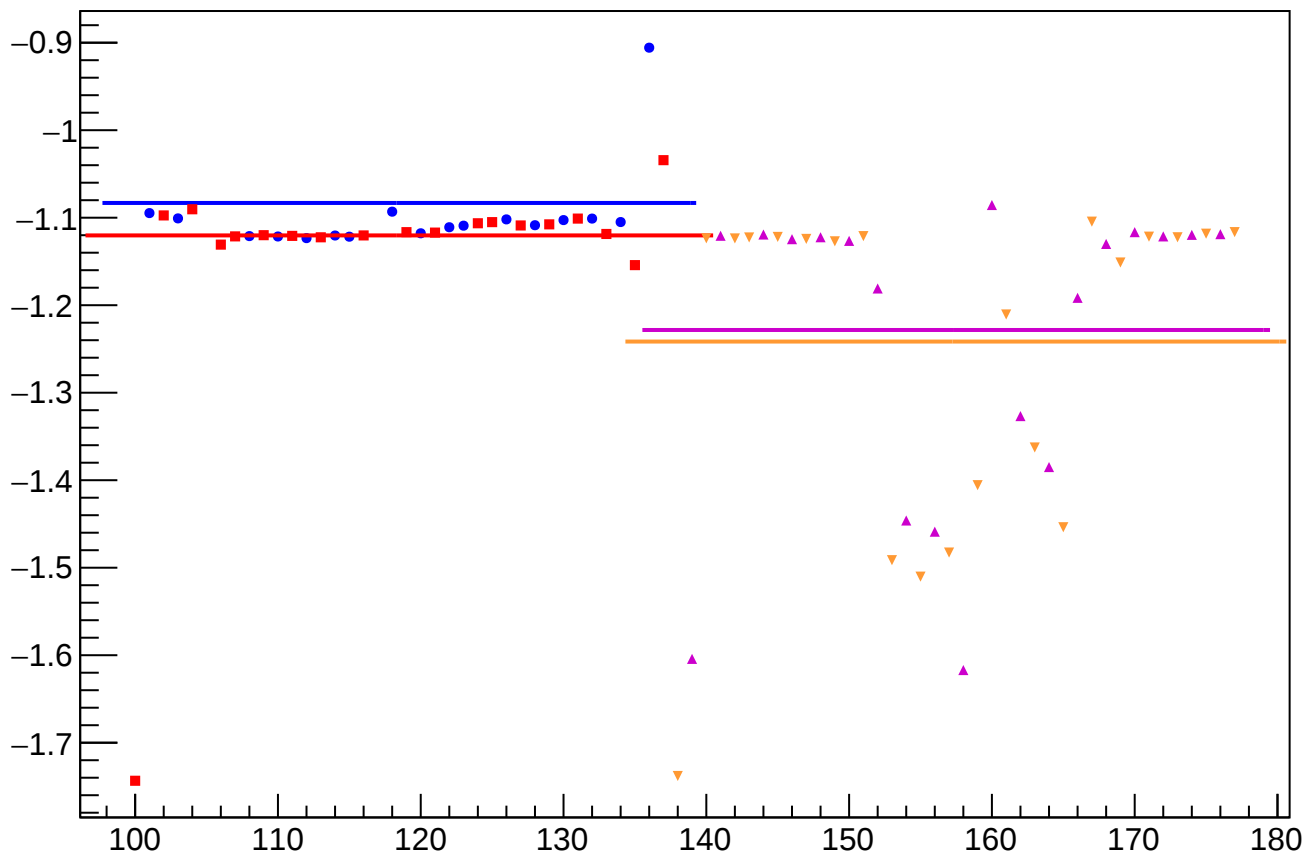
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1883305.7/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1987686.1/35

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 2626688.1/39

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 4616114.6/75

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.242+/-0.000 χ^2/NDF : 4906885260.3/20

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.228+/-0.000 χ^2/NDF : 4204348204.2/18

Left: -1.235+/-0.000 χ^2/NDF : 9124704651.1/39

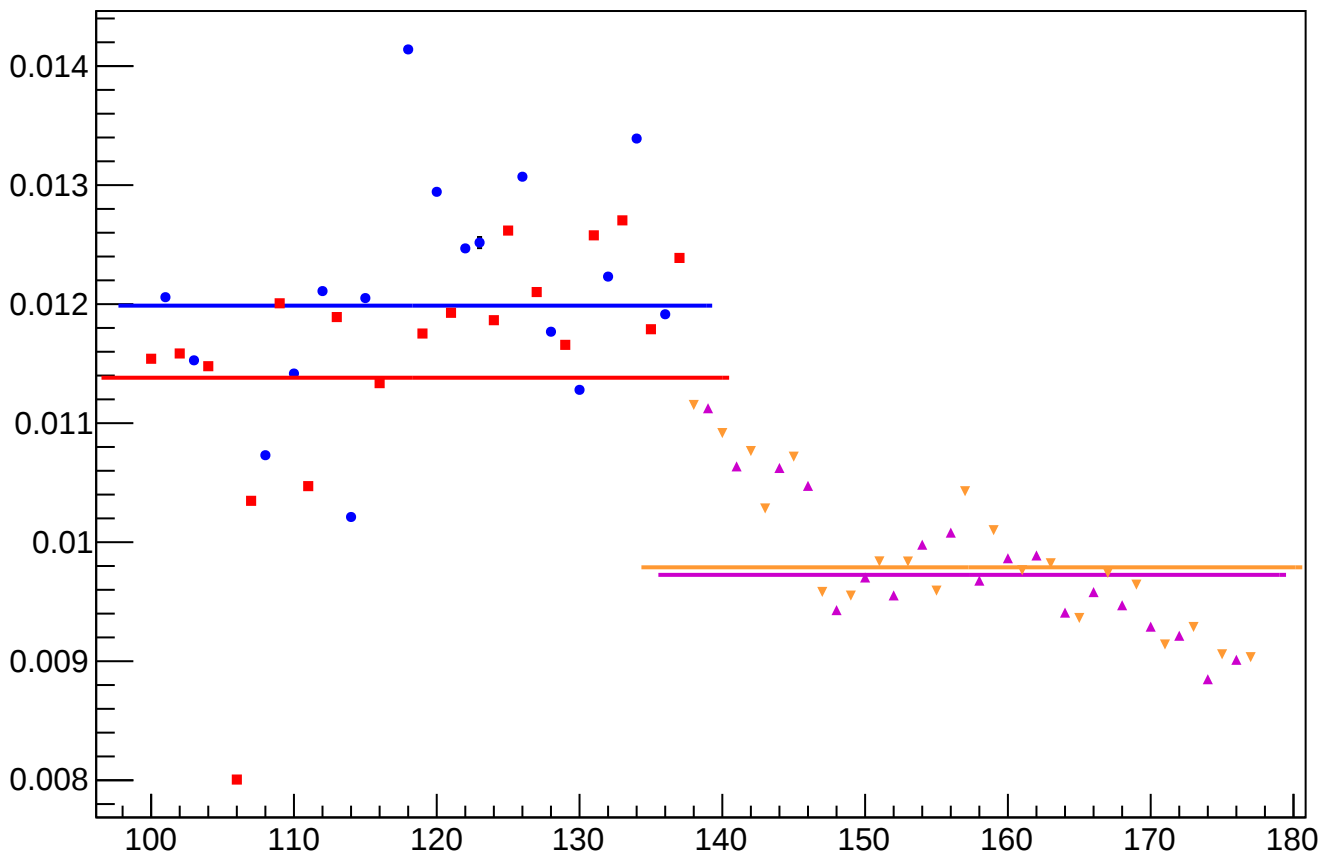
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.195+/-0.000 χ^2/NDF : 5133919552.2/35

Out: -1.211+/-0.000 χ^2/NDF : 5711121609.7/39

All: -1.203+/-0.000 χ^2/NDF : 10872305417.4/78

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:102649.3/20

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:92044.1/18

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 195313.4/39

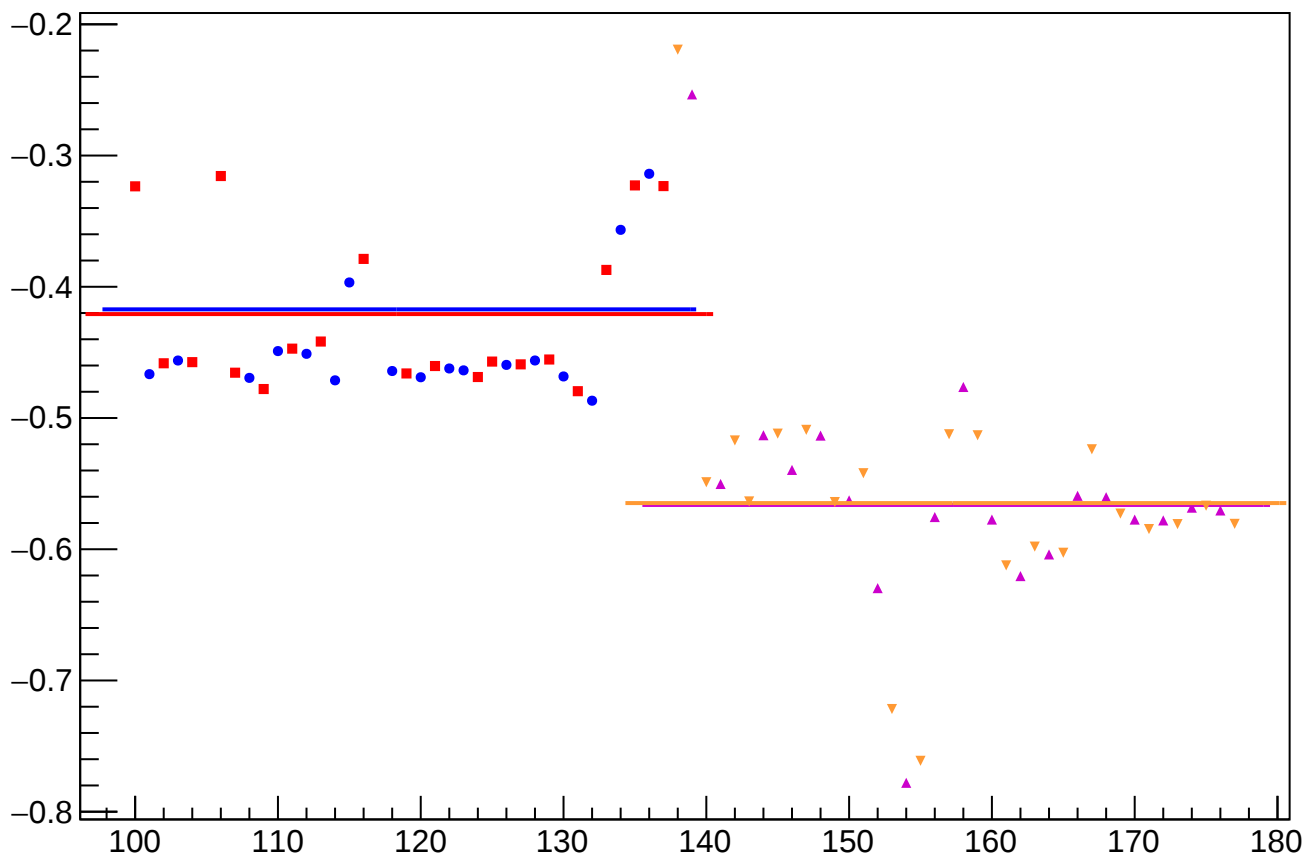
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:505176.0/35

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:458435.9/39

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 964347.5/75

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.565+/-0.000 χ^2/NDF : 13329606118.4/20

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.566+/-0.000 χ^2/NDF : 10433180504.7/18

Left: -0.565+/-0.000 χ^2/NDF : 23764121794.8/39

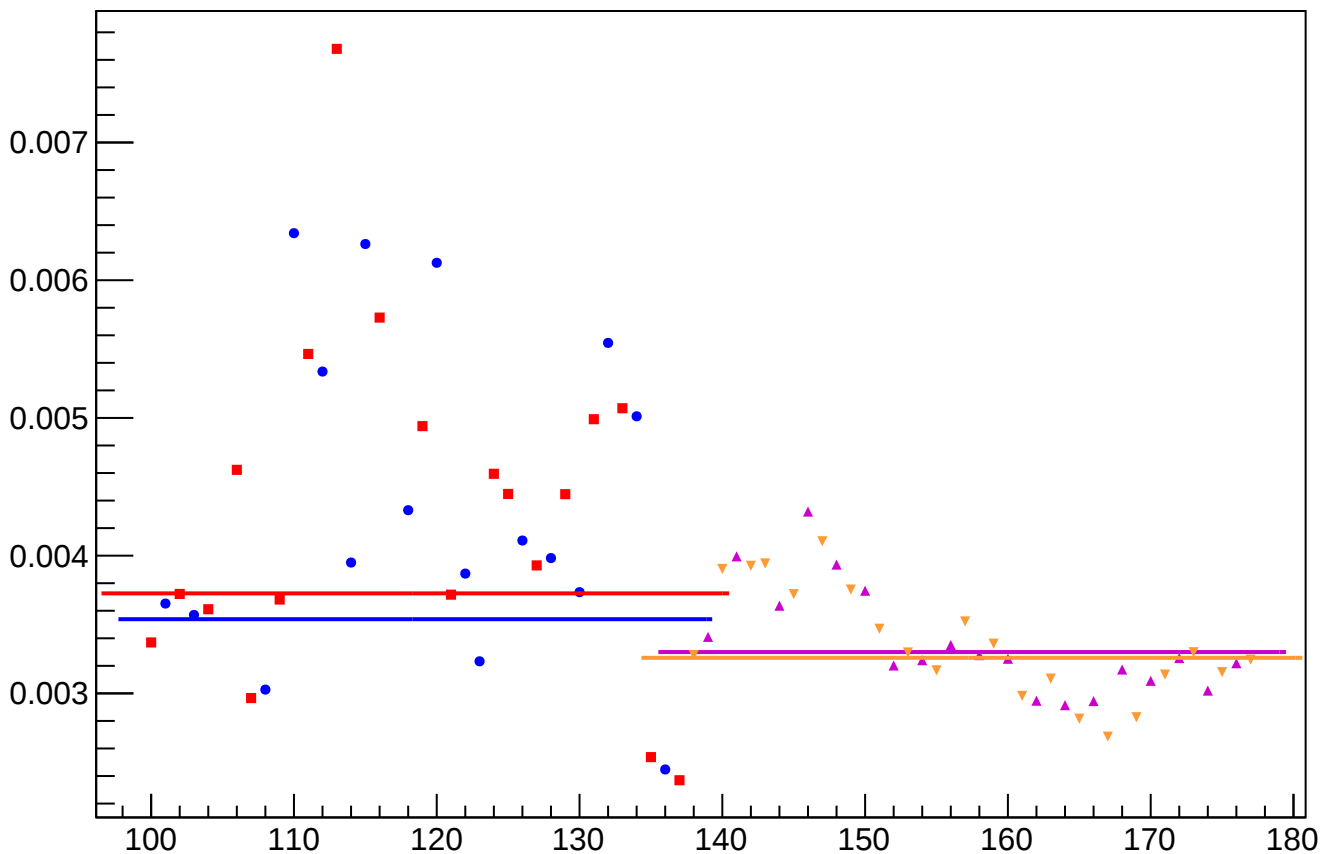
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.528+/-0.000 χ^2/NDF : 19638206423.7/35

Out: -0.531+/-0.000 χ^2/NDF : 21685027536.9/39

All: -0.530+/-0.000 χ^2/NDF : 41333075468.8/83

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 :374563.8/20

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF :277193.8/18

Left: 0.003+/-0.000 χ^2/NDF : 654076.3/39

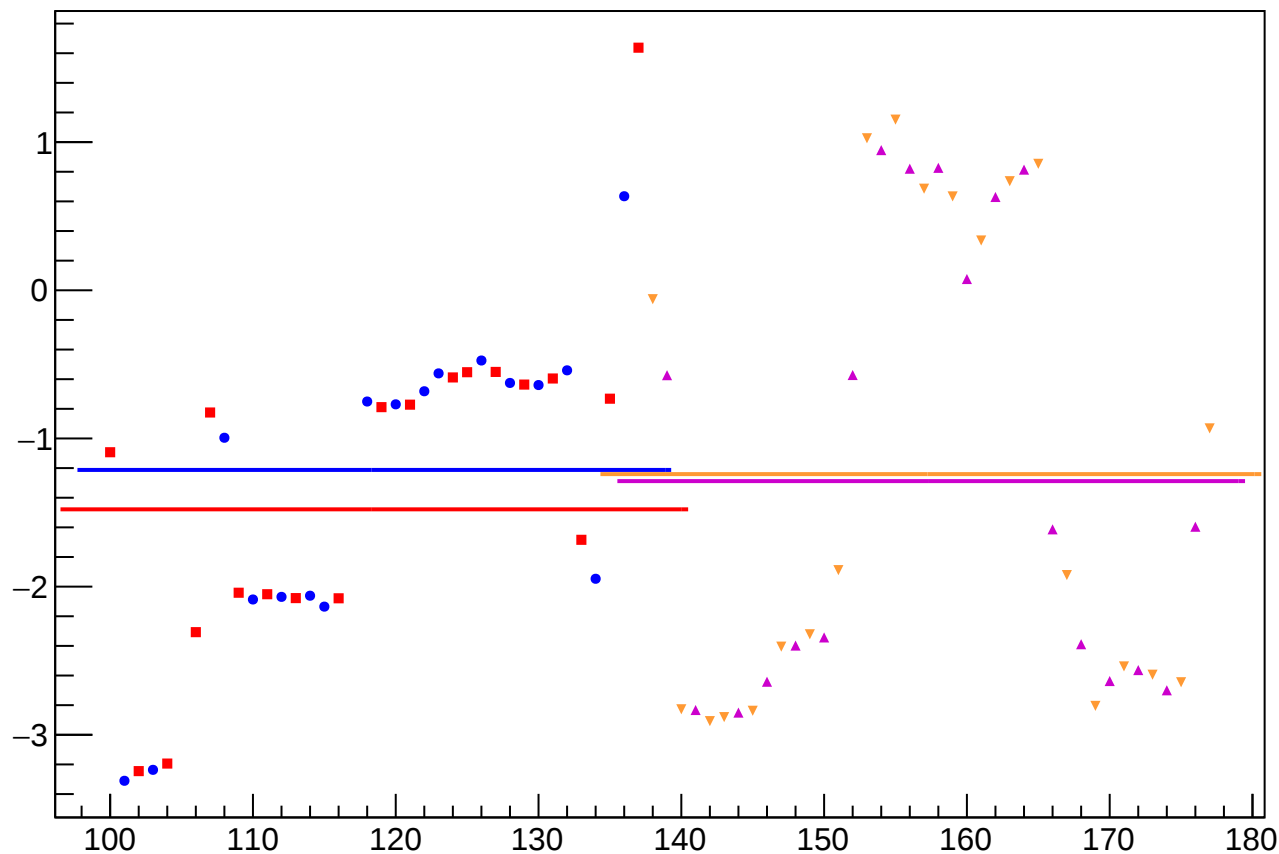
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF :1150046.6/35

Out: 0.003+/-0.000 χ^2/NDF :1414706.7/39

All: 0.003+/-0.000 χ^2/NDF : 2564812.2/75

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 ± 0.000 $\chi^2/\text{NDF}: 1992853443.9/16$

Left Out: -1.241 ± 0.000 $\chi^2/\text{NDF}: 6726296782.8/20$

Right Out: -1.478 ± 0.000 $\chi^2/\text{NDF}: 1578264383.8/18$

Left In: -1.288 ± 0.000 $\chi^2/\text{NDF}: 5510882063.2/18$

Left: -1.263 ± 0.000 $\chi^2/\text{NDF}: 12240145907.4/39$

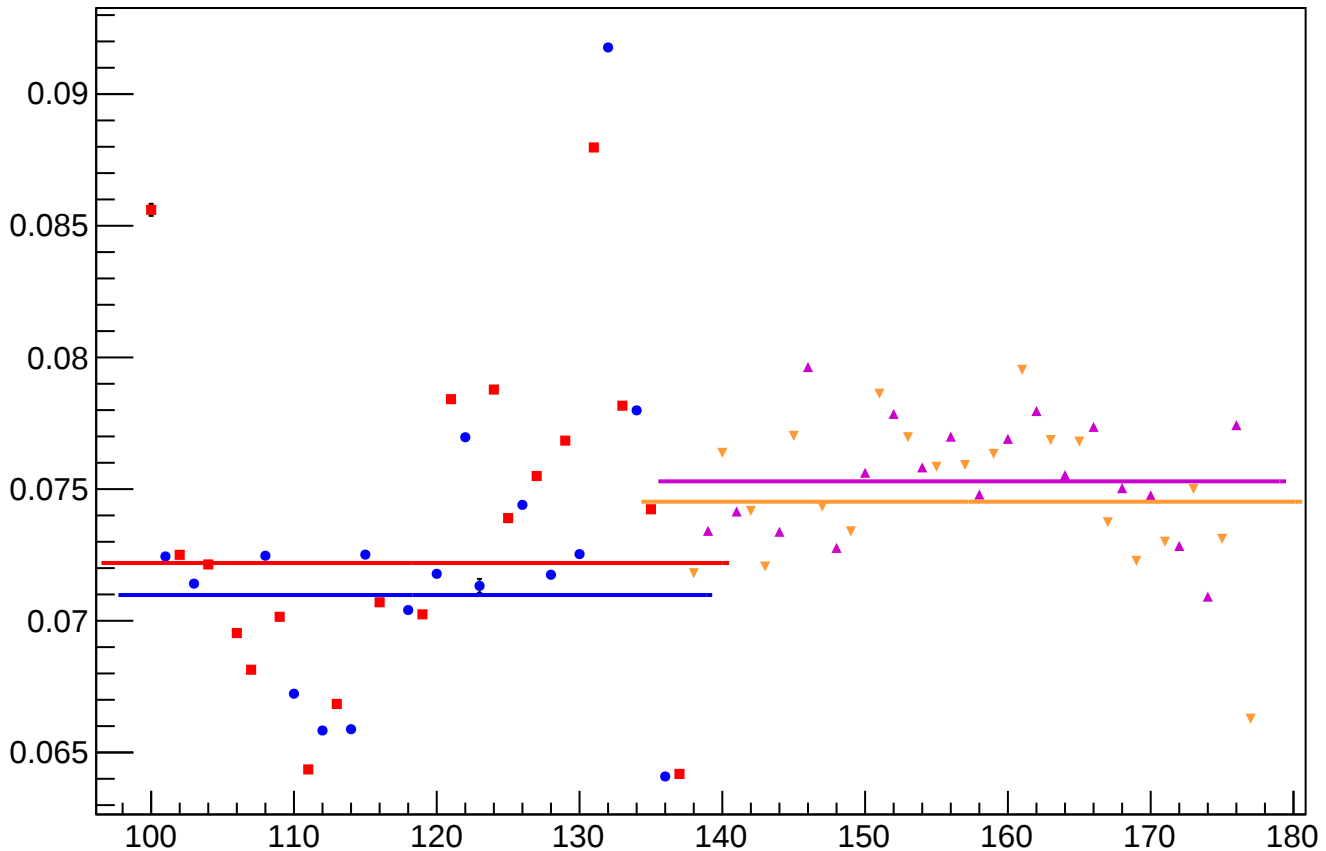
Right: -1.347 ± 0.000 $\chi^2/\text{NDF}: 3617796481.7/35$

In: -1.262 ± 0.000 $\chi^2/\text{NDF}: 7508638978.5/35$

Out: -1.317 ± 0.000 $\chi^2/\text{NDF}: 8355651163.9/39$

All: -1.291 ± 0.000 $\chi^2/\text{NDF}: 15870356665.5/78$

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 : 49871.0/20

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.075+/-0.000 χ^2/NDF : 23034.9/18

Left: 0.075+/-0.000 χ^2/NDF : 74497.0/39

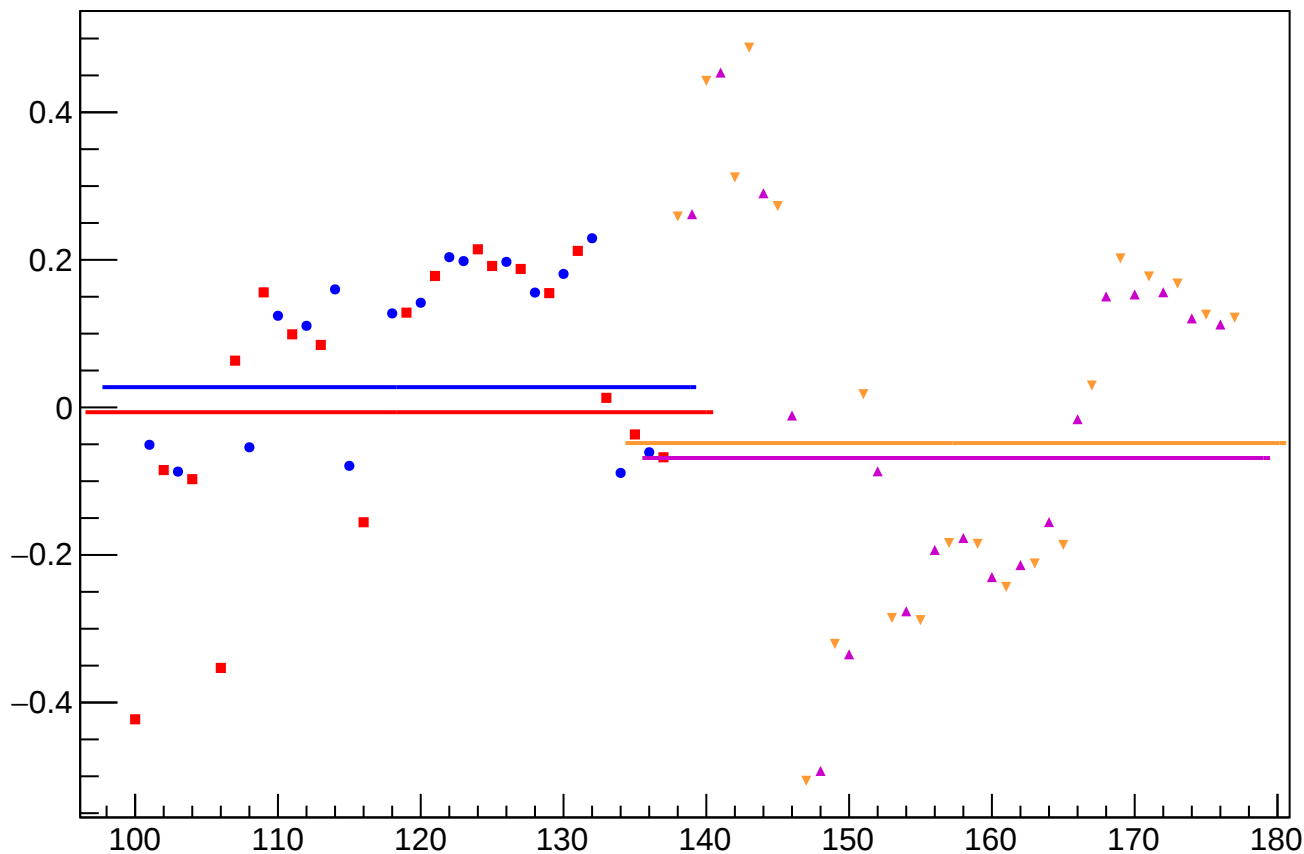
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 132719.5/35

Out: 0.074+/-0.000 χ^2/NDF : 132881.9/39

All: 0.074+/-0.000 χ^2/NDF : 265615.1/75

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562337631.4/16

Left: -0.058+/-0.000

χ^2/NDF : 33212011880.7/39

Left Out: -0.048+/-0.000

χ^2/NDF : 18915766384.1/20

Right: 0.010+/-0.000

χ^2/NDF : 1787030042.0/35

Right Out: -0.007+/-0.000

χ^2/NDF : 1199278894.0/18

In: -0.056+/-0.000

χ^2/NDF : 15146164549.3/35

Left In: -0.069+/-0.000

χ^2/NDF : 14230751708.1/18

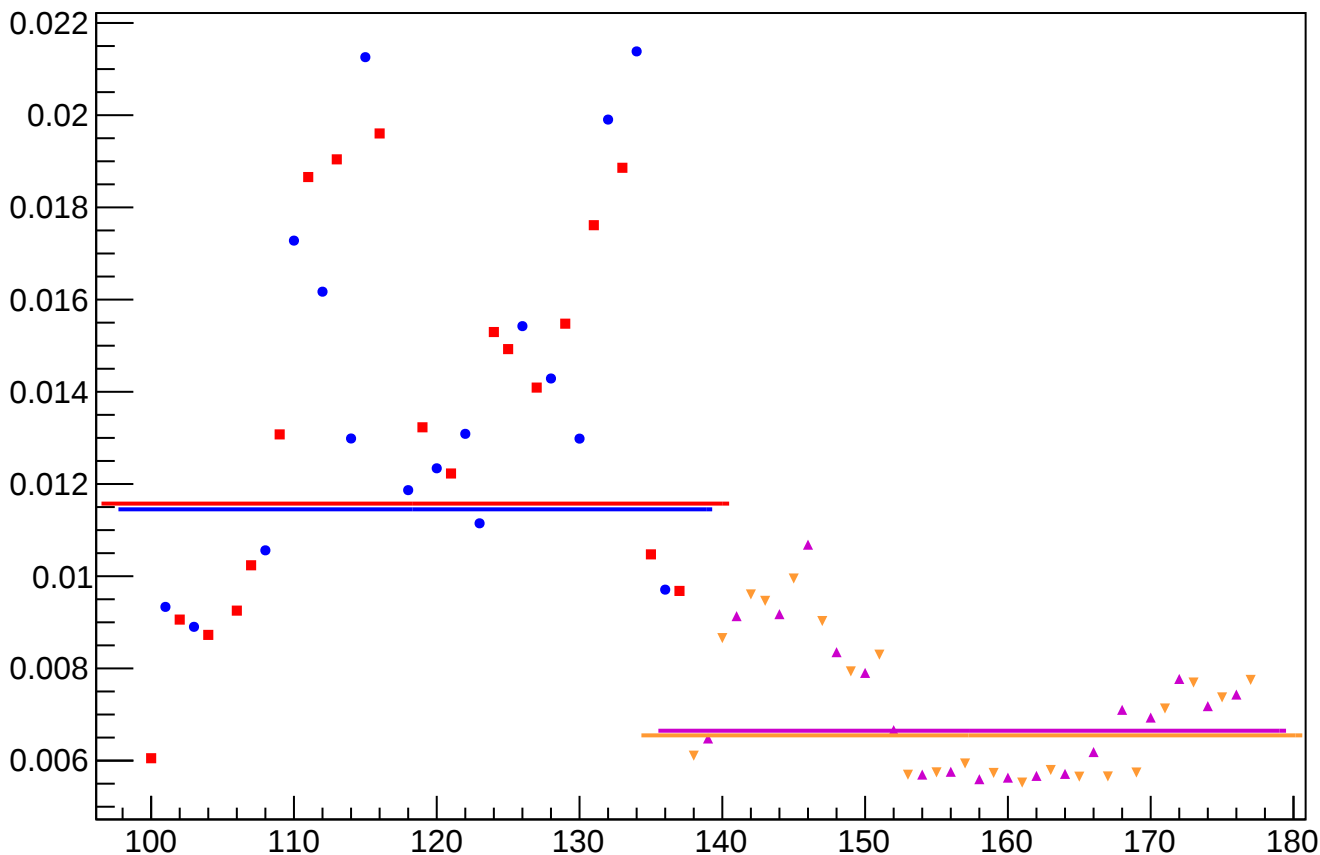
Out: -0.043+/-0.000

χ^2/NDF : 20183393527.7/39

All: -0.050+/-0.000

χ^2/NDF : 35360165233.7/79

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :1039557.9/20

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.007+/-0.000 χ^2/NDF :854388.2/18

Left: 0.007+/-0.000 χ^2/NDF : 1897172.5/39

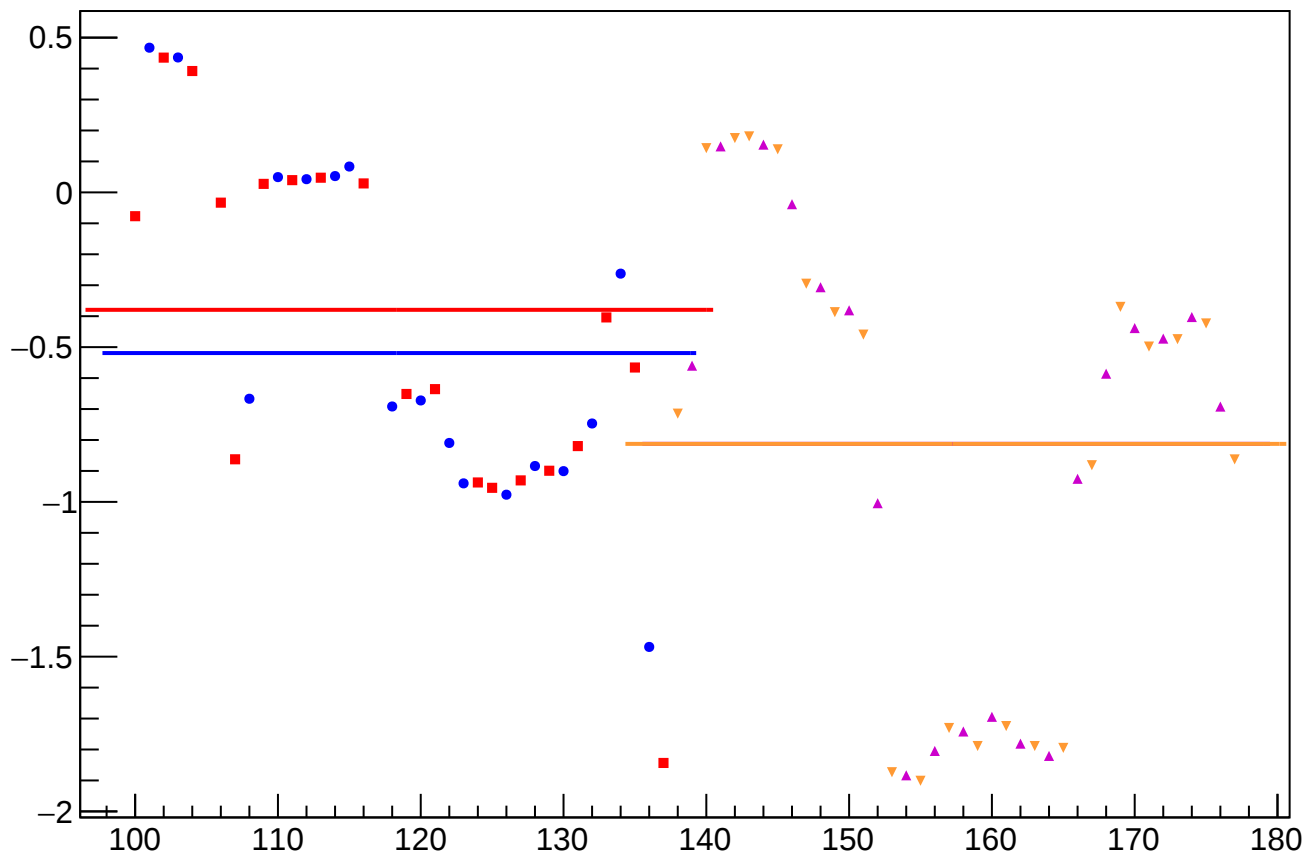
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF :3299993.0/35

Out: 0.007+/-0.000 χ^2/NDF :4014694.3/39

All: 0.007+/-0.000 χ^2/NDF : 7320202.4/75

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519+/-0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.813+/-0.000 χ^2/NDF : 1082004268.6/20

Right Out: -0.379+/-0.000 χ^2/NDF : 268621179.0/18

Left In: -0.812+/-0.000 χ^2/NDF : 919114144.6/18

Left: -0.813+/-0.000 χ^2/NDF : 2001118426.6/39

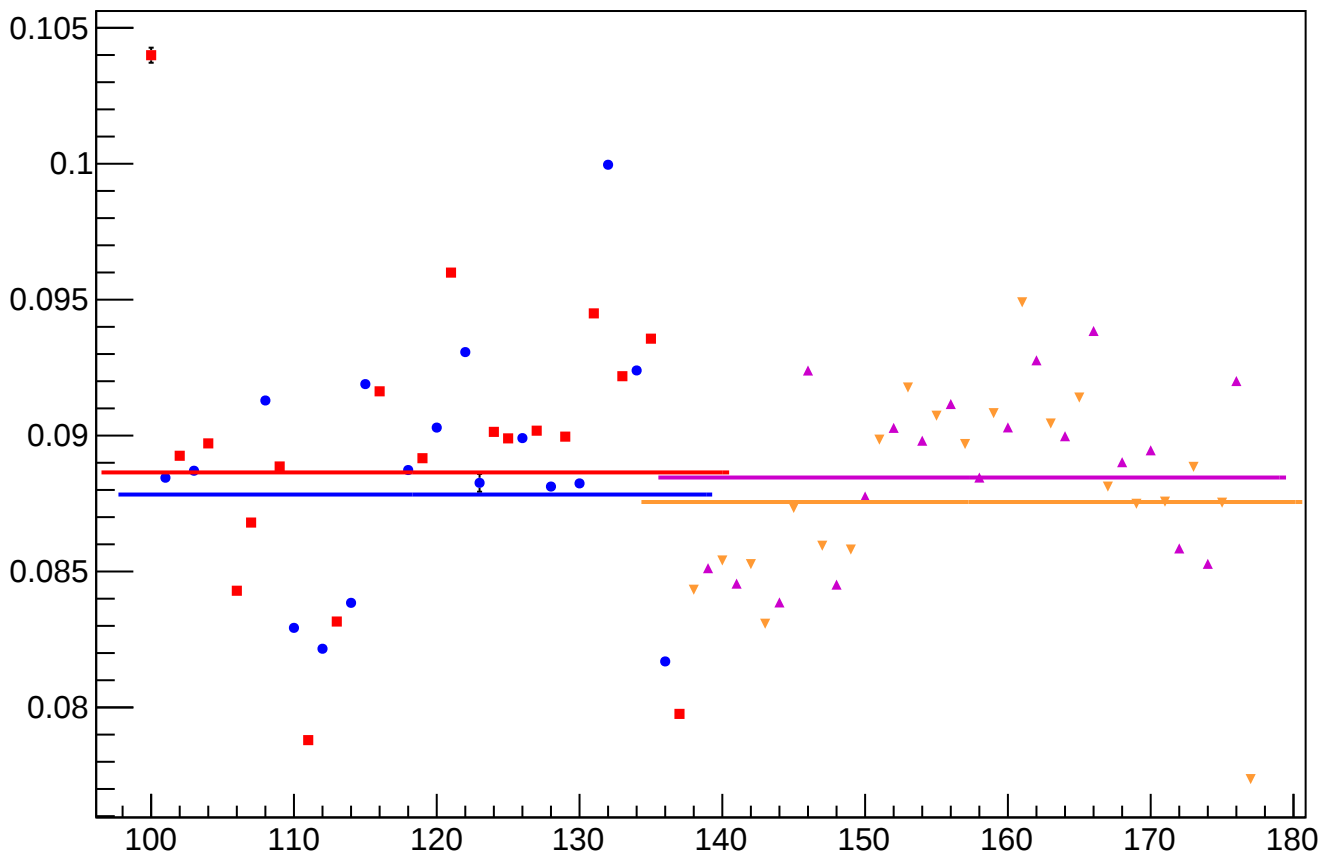
Right: -0.448+/-0.000 χ^2/NDF : 616632603.2/35

In: -0.719+/-0.000 χ^2/NDF : 1309345933.1/35

Out: -0.680+/-0.000 χ^2/NDF : 1468154765.8/39

All: -0.699+/-0.000 χ^2/NDF : 2779666343.0/7

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 : 58456.7/20

Right Out: 0.089+/-0.000 χ^2/NDF : 39722.9/18

Left In: 0.088+/-0.000 χ^2/NDF : 33298.7/18

Left: 0.088+/-0.000 χ^2/NDF : 93336.7/39

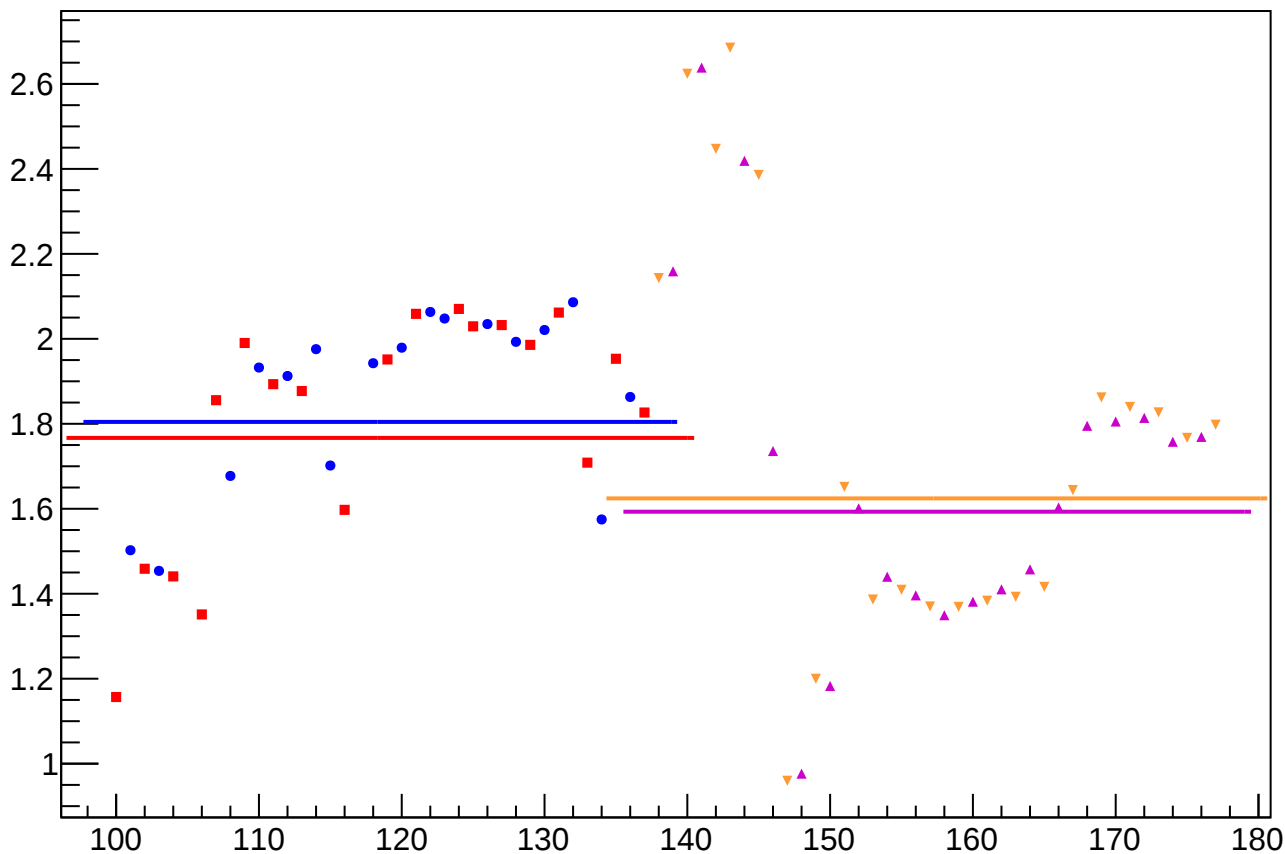
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF : 68716.3/35

Out: 0.088+/-0.000 χ^2/NDF : 99663.9/39

All: 0.088+/-0.000 χ^2/NDF : 168765.5/75

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 25497792887.5/20

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1709259284.5/18

Left In: 1.593 $\pm$ 0.000 χ^2 /NDF: 19723908569.6/18

Left: 1.610 $\pm$ 0.000 χ^2 /NDF: 45308012286.0/39

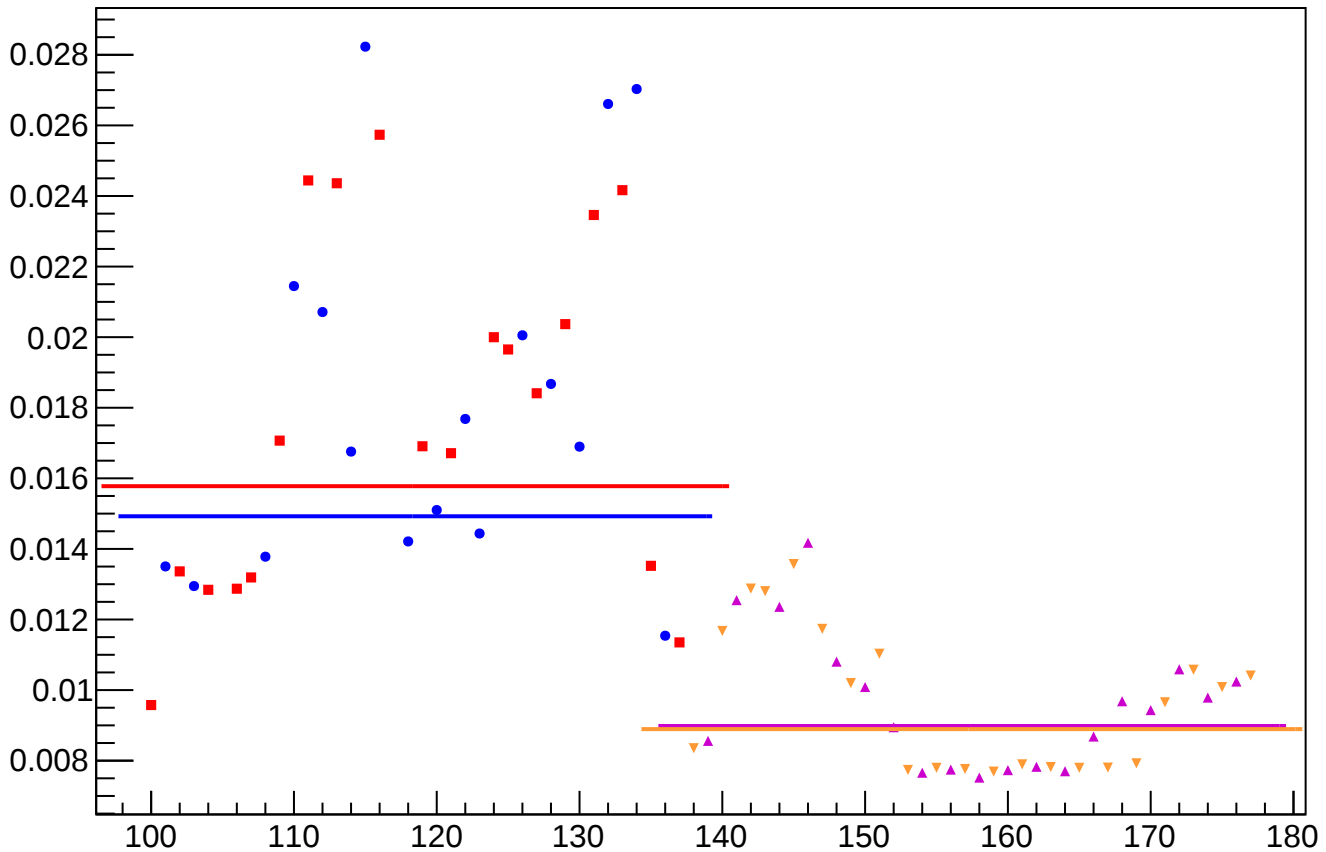
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.621 $\pm$ 0.000 χ^2 /NDF: 21880484808.6/35

Out: 1.641 $\pm$ 0.000 χ^2 /NDF: 27641363435.5/39

All: 1.631 $\pm$ 0.000 χ^2 /NDF: 49560538459.2/7

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 : 958387.0/20

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 814141.3/18

Left: 0.009+/-0.000 χ^2/NDF : 1773902.3/39

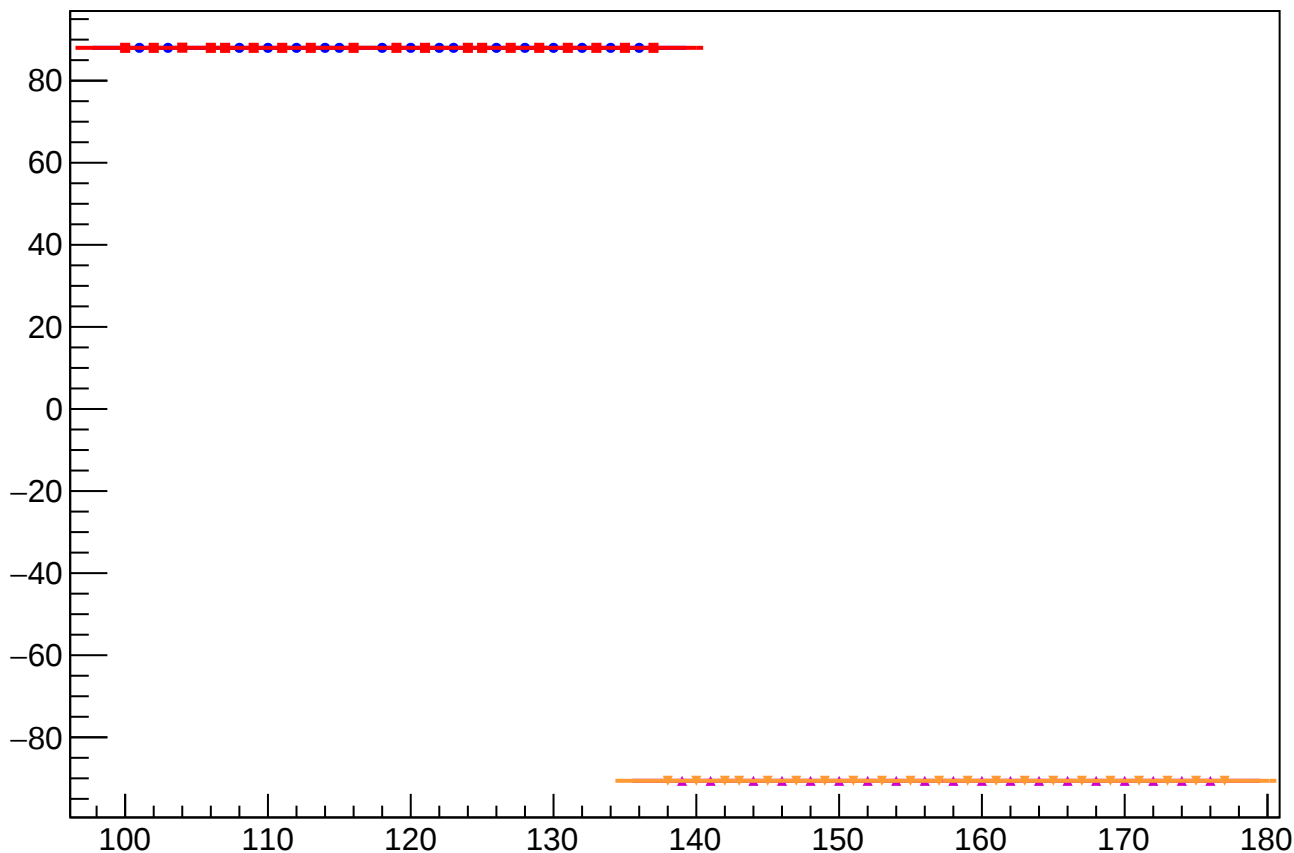
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3038000.9/35

Out: 0.010+/-0.000 χ^2/NDF : 3774814.4/39

All: 0.010+/-0.000 χ^2/NDF : 6814220.9/75

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: 6193757.2/20

Right Out: 88.004+/-0.000 χ^2 /NDF: 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2 /NDF: 5460280.6/18

Left: -90.599+/-0.000 χ^2 /NDF: 11454512.8/39

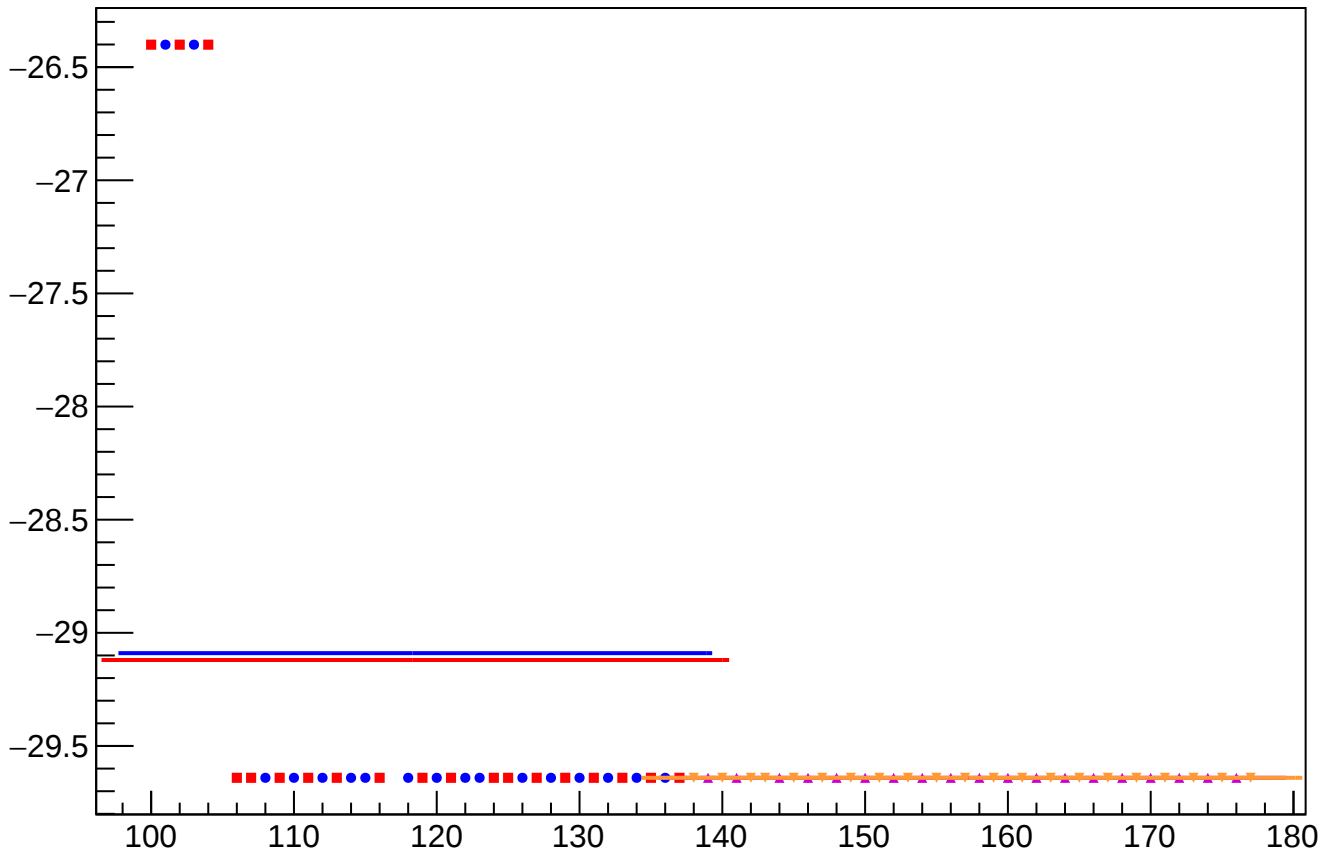
Right: 88.002+/-0.000 χ^2 /NDF: 8043459440319720

In: -34.514+/-0.000 χ^2 /NDF: 15185507379113098

Out: -35.820+/-0.000 χ^2 /NDF: 1596716083381582

All: -35.187+/-0.000 χ^2 /NDF: 311546112541

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 : 230726.0/20

Right Out: -29.120+/-0.000

χ^2/NDF : 1022076578393359839206130891882496.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 159387.8/18

Left: -29.641+/-0.000 χ^2/NDF : 372998.7/39

Right: -29.105+/-0.000

χ^2/NDF : 205050154576273.0/16

In: -29.468+/-0.000

χ^2/NDF : 11725771699547373.0/16

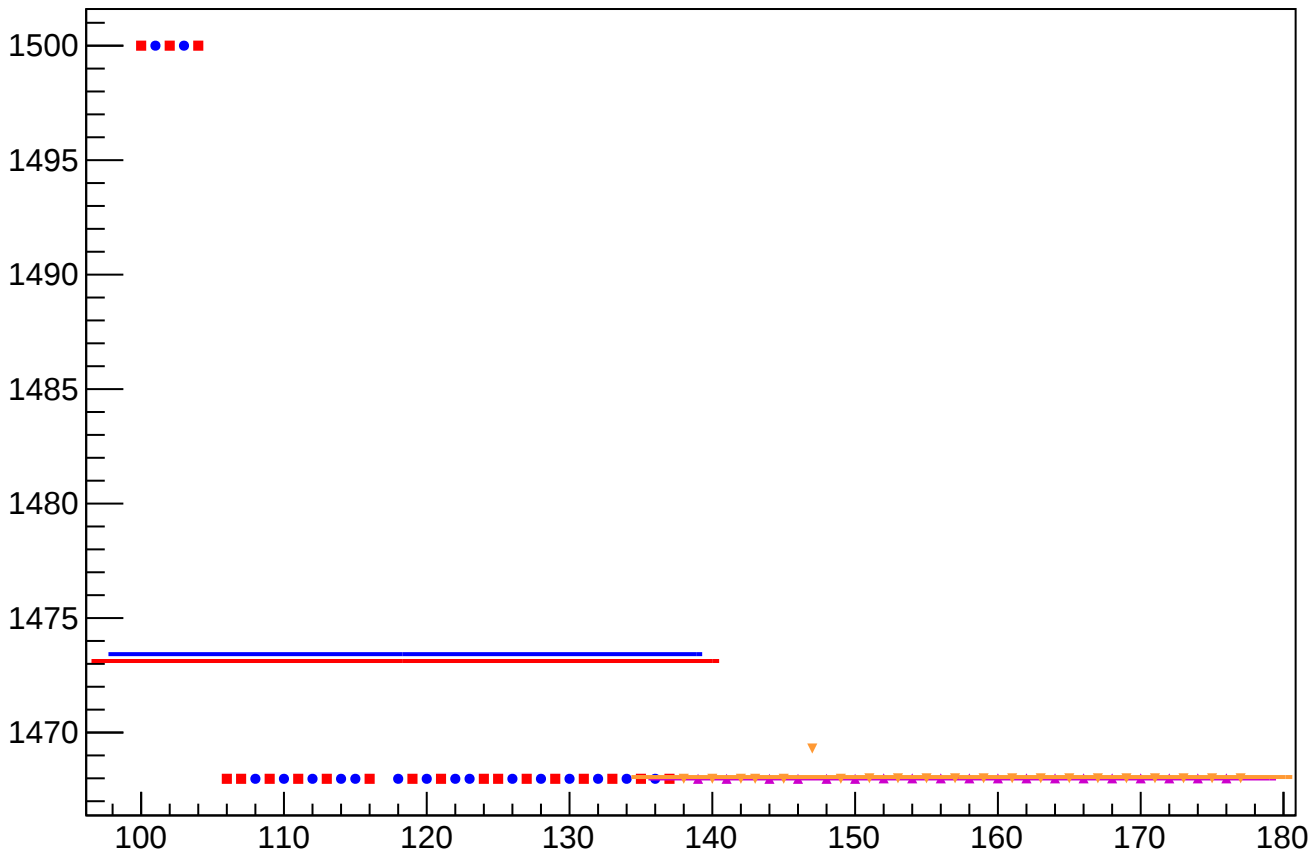
Out: -29.481+/-0.000

χ^2/NDF : 1157714928122320.0/18

All: -29.475+/-0.000

χ^2/NDF : 233049480105.0/39

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000

χ^2/NDF : 100421295828245505125784497044848640.0/16

Left Out: 1468.056+/-0.000

χ^2/NDF : 127166964591025559887956343259136.0/20

Right Out: 1473.124+/-0.000

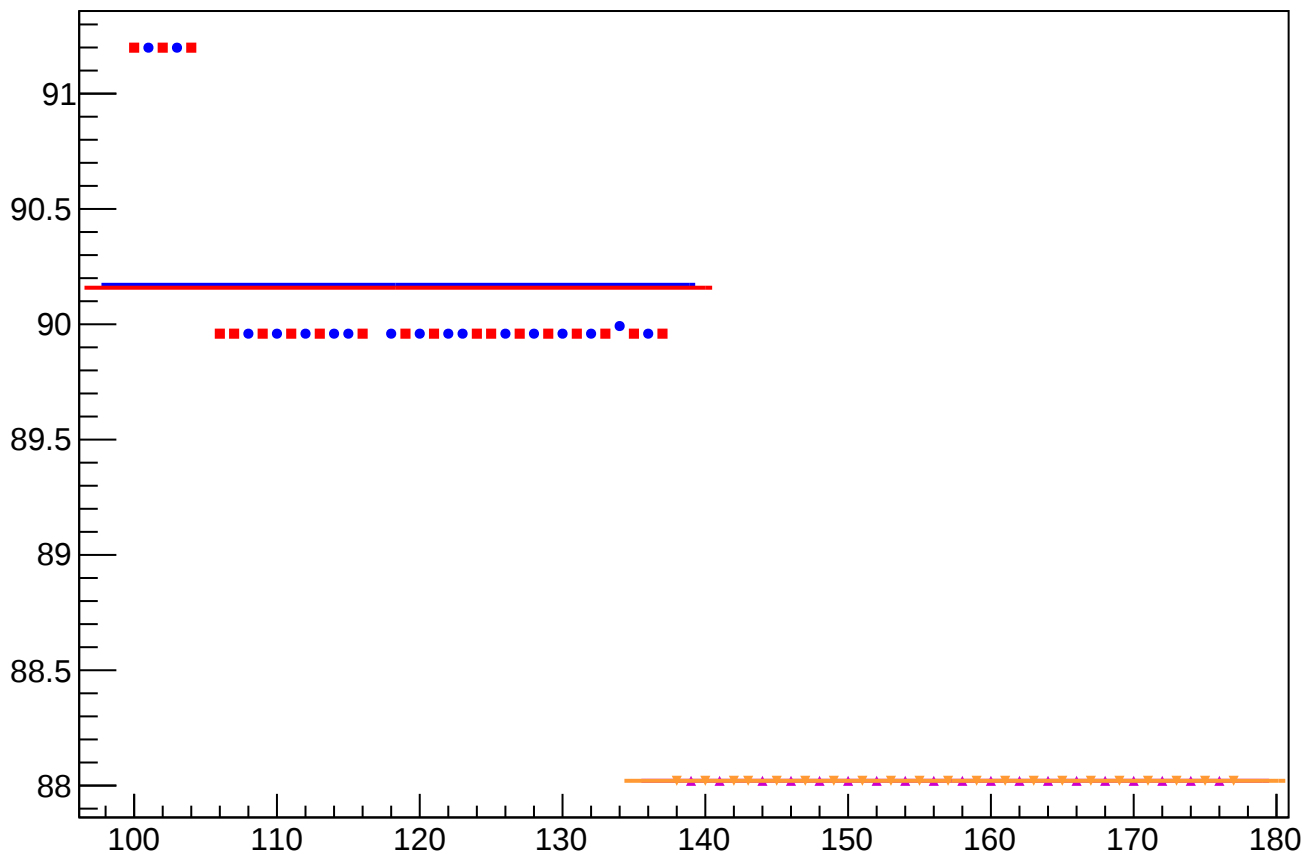
χ^2/NDF : 99833021788859785886082809393577984.0/18

Left In: 1467.993+/-0.000

χ^2/NDF : 134172823188822308703673778176.0/18

All: 1469.653+/-0.000 χ^2/NDF : 22728891583

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 : 4942888.8/20

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5343756.4/18

Left: 88.021+/-0.000 χ^2/NDF : 10273316.6/39

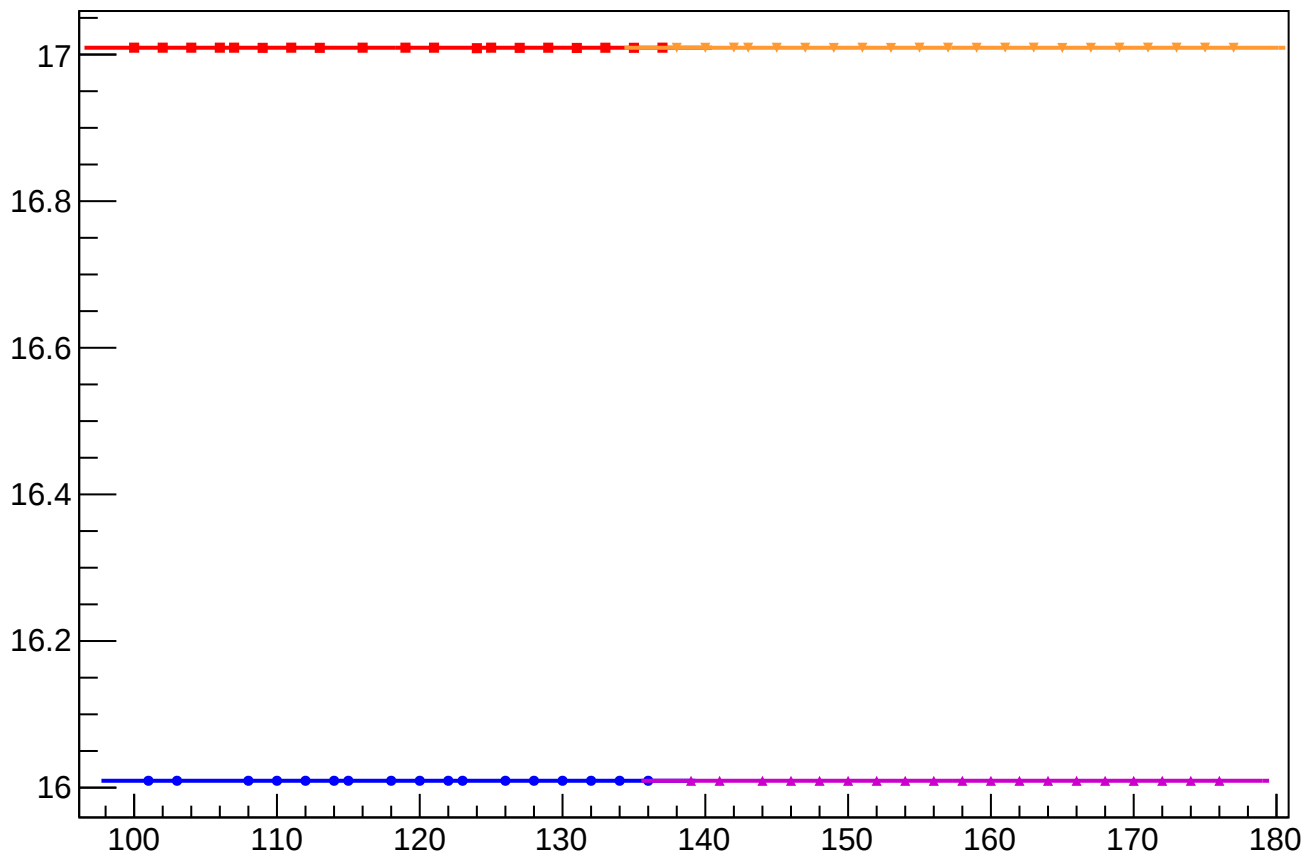
Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

In: 88.696+/-0.000 χ^2/NDF : 235180746746514154

Out: 88.676+/-0.000 χ^2/NDF : 24373700394828741

All: 88.686+/-0.000 χ^2/NDF : 4789615344661

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 : 23291282091101234567053312.0/20

Right Out: 17.009+/-0.000 χ^2/NDF : 12516014336037541461884928.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 126869302310193420304384.0/18

Left: 16.525+/-0.000 χ^2/NDF : 72886993750604742

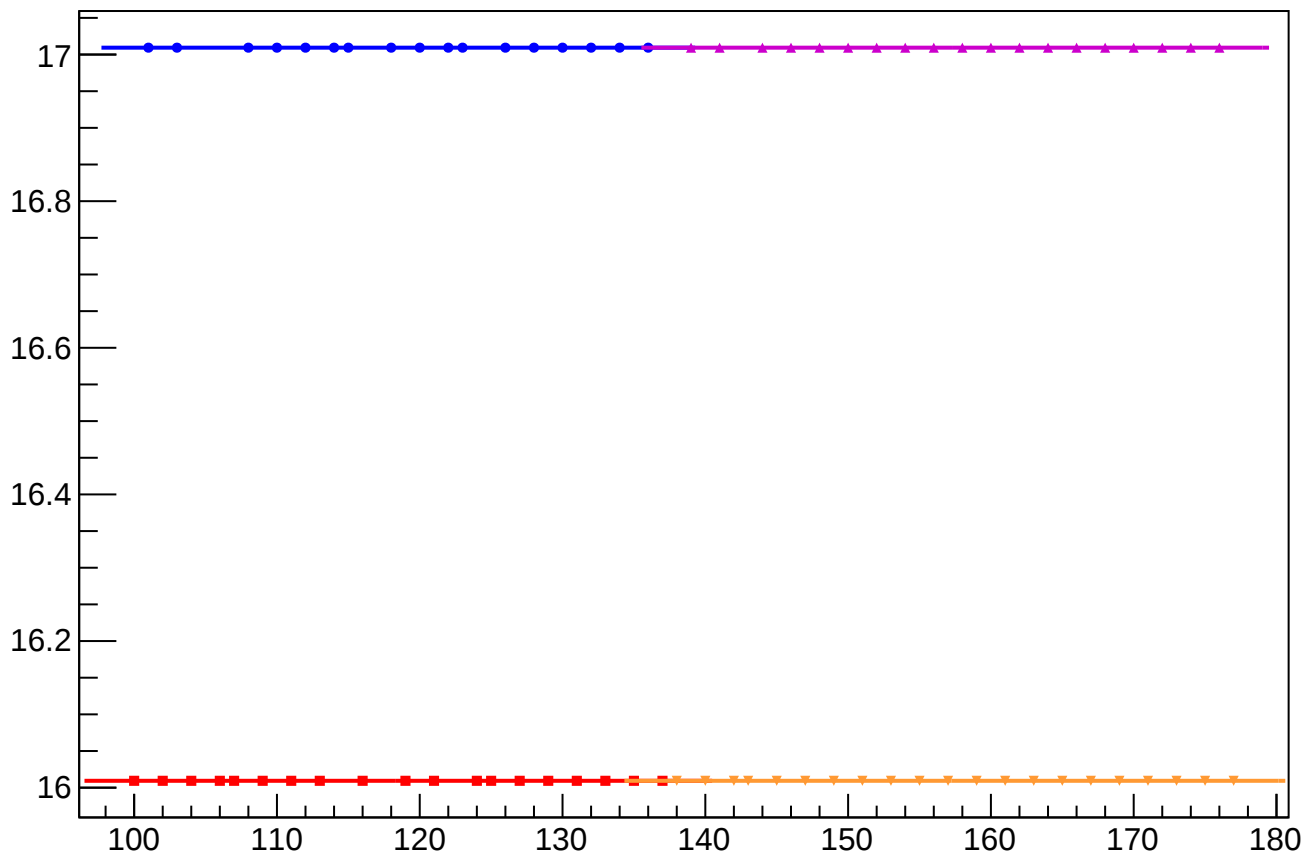
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 129071626656384253

Out: 17.009+/-0.000 χ^2/NDF : 36180359905765662

All: 16.519+/-0.000 χ^2/NDF : 1058112187364

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 132629.6/16

Left Out: 16.009+/-0.000 χ^2/NDF : 59764.1/20

Right Out: 16.009+/-0.000 χ^2/NDF : 39518.8/18

Left In: 17.009+/-0.000 χ^2/NDF : 113964876343063642898432.0/18

Left: 16.489+/-0.000 χ^2/NDF : 77067032071321526

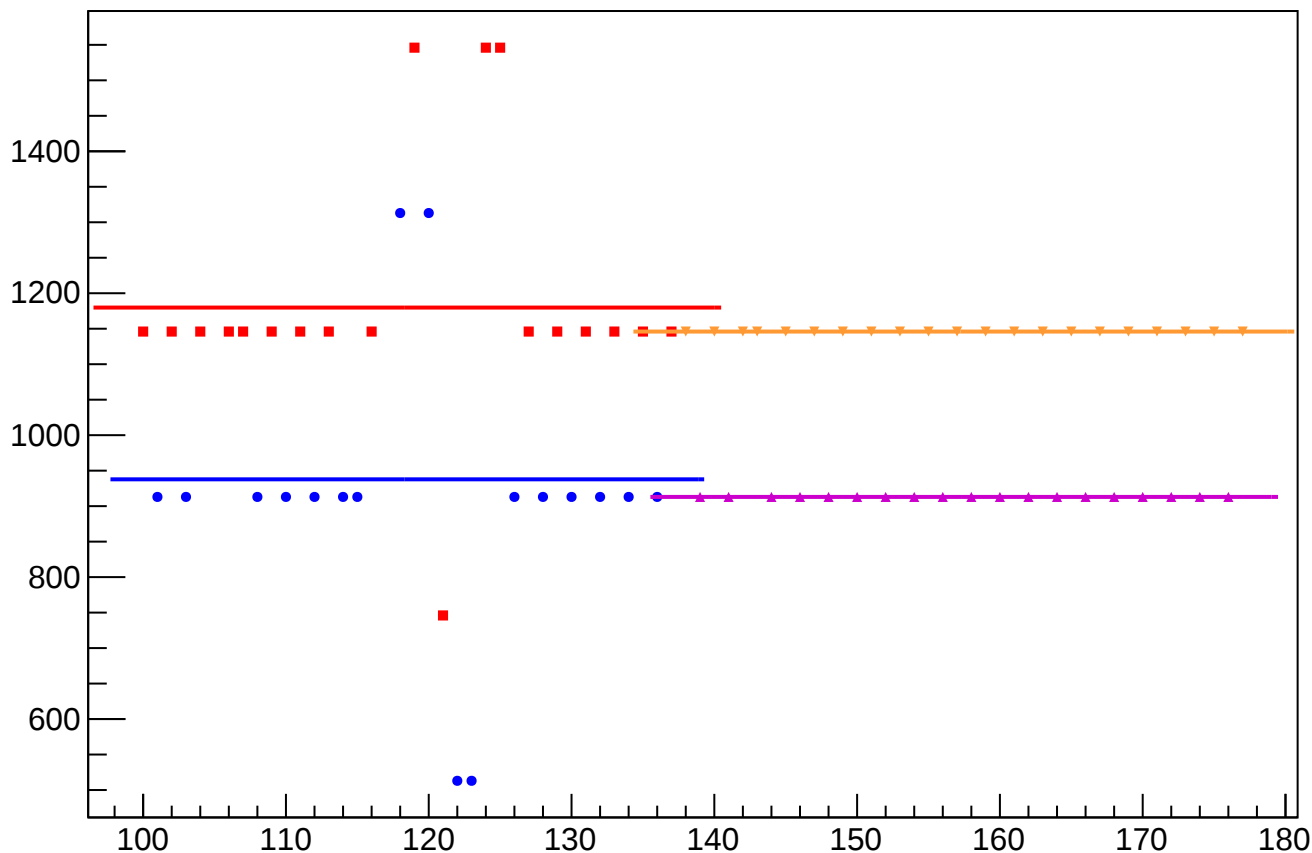
Right: 16.490+/-0.000 χ^2/NDF : 3437400145243126

In: 17.009+/-0.000 χ^2/NDF : 116004156339336926

Out: 16.009+/-0.000 χ^2/NDF : 289644.5/39

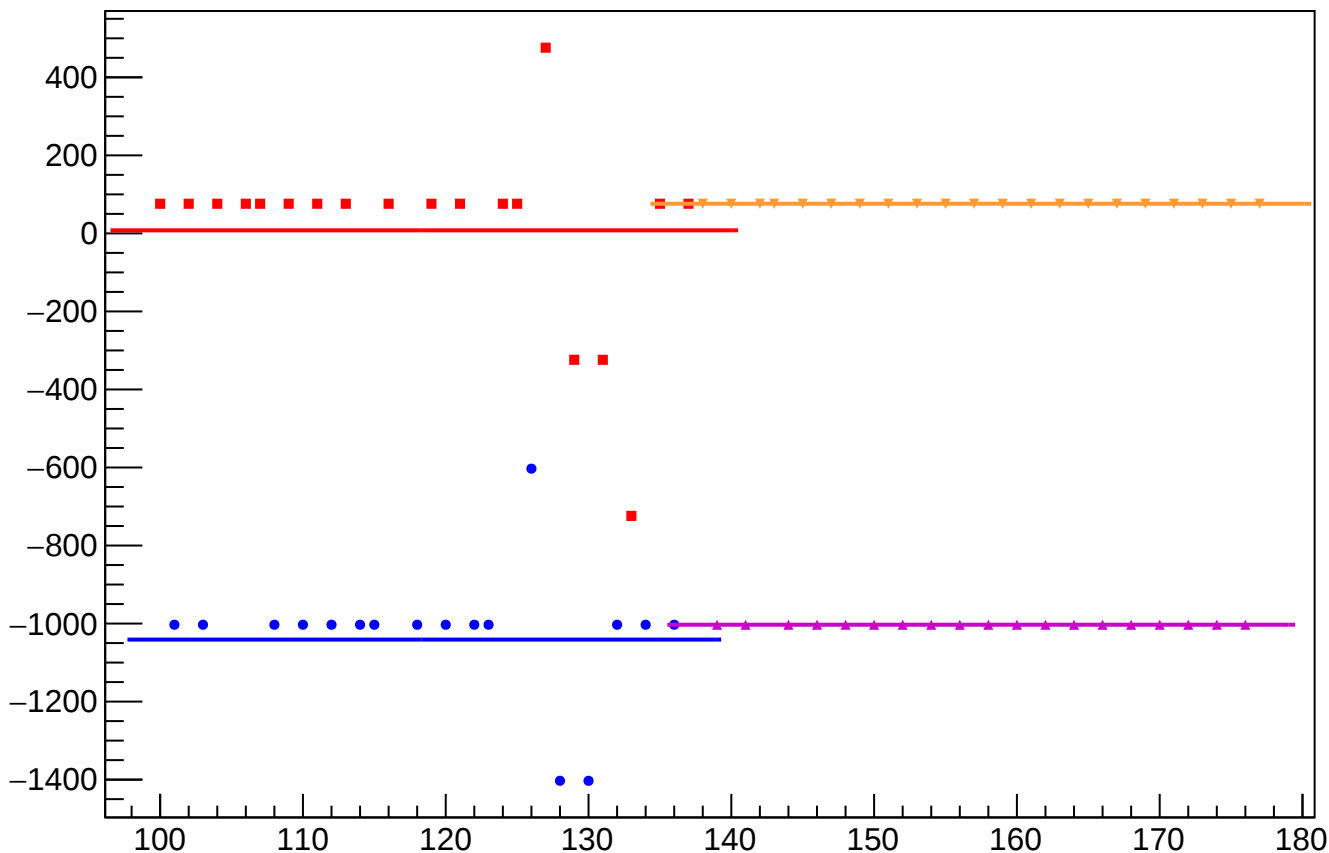
All: 16.489+/-0.000 χ^2/NDF : 1114412425930

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1033.796+/-0.000 χ^2/NDF : 426732092038634
 Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 5202626768434015163486568448.0/20
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 24371317349658929596402237440.0/18
 All: 1042.294+/-0.000 χ^2/NDF : 10640499067

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030 $\pm$ 0.000 χ^2 /NDF: 22675401109943882512554797113855180800.0/16
 Left Out: 76.011 $\pm$ 0.000 χ^2 /NDF: 10601909425478861398258745344.0/20
 Right Out: 7.865 $\pm$ 0.000 χ^2 /NDF: 43846919472163570410830042713366200320.0/18
 Left In: -1002.990 $\pm$ 0.000 χ^2 /NDF: 2290209791729334035144507392.0/18
 All: -463.032 $\pm$ 0.000 χ^2 /NDF: 13746763245