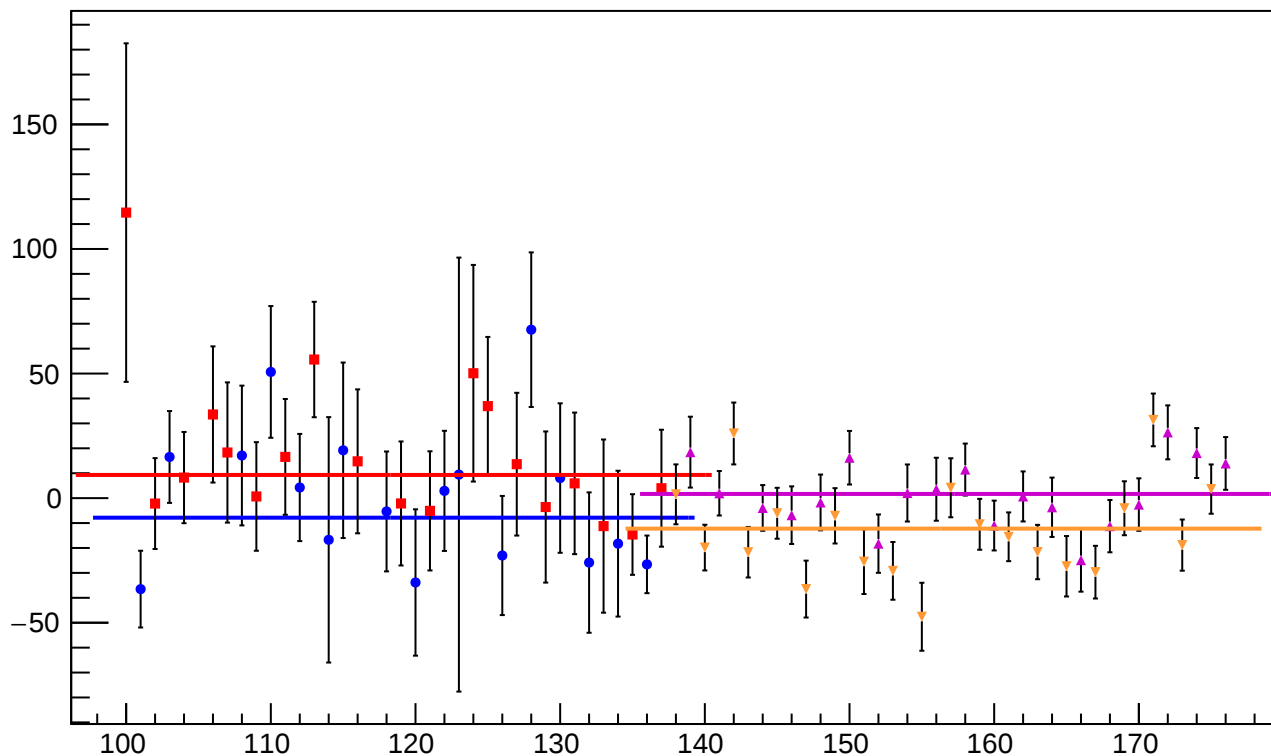


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

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

Left Out: -12.234 ± 2.442

$\chi^2/\text{NDF}: 55.0/19$

Right Out: 9.309 ± 5.677

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

Left In: 1.686 ± 2.480

$\chi^2/\text{NDF}: 25.2/18$

Left: -5.379 ± 1.740

$\chi^2/\text{NDF}: 96.2/38$

Right: 0.629 ± 3.990

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

In: 0.128 ± 2.268

$\chi^2/\text{NDF}: 50.2/35$

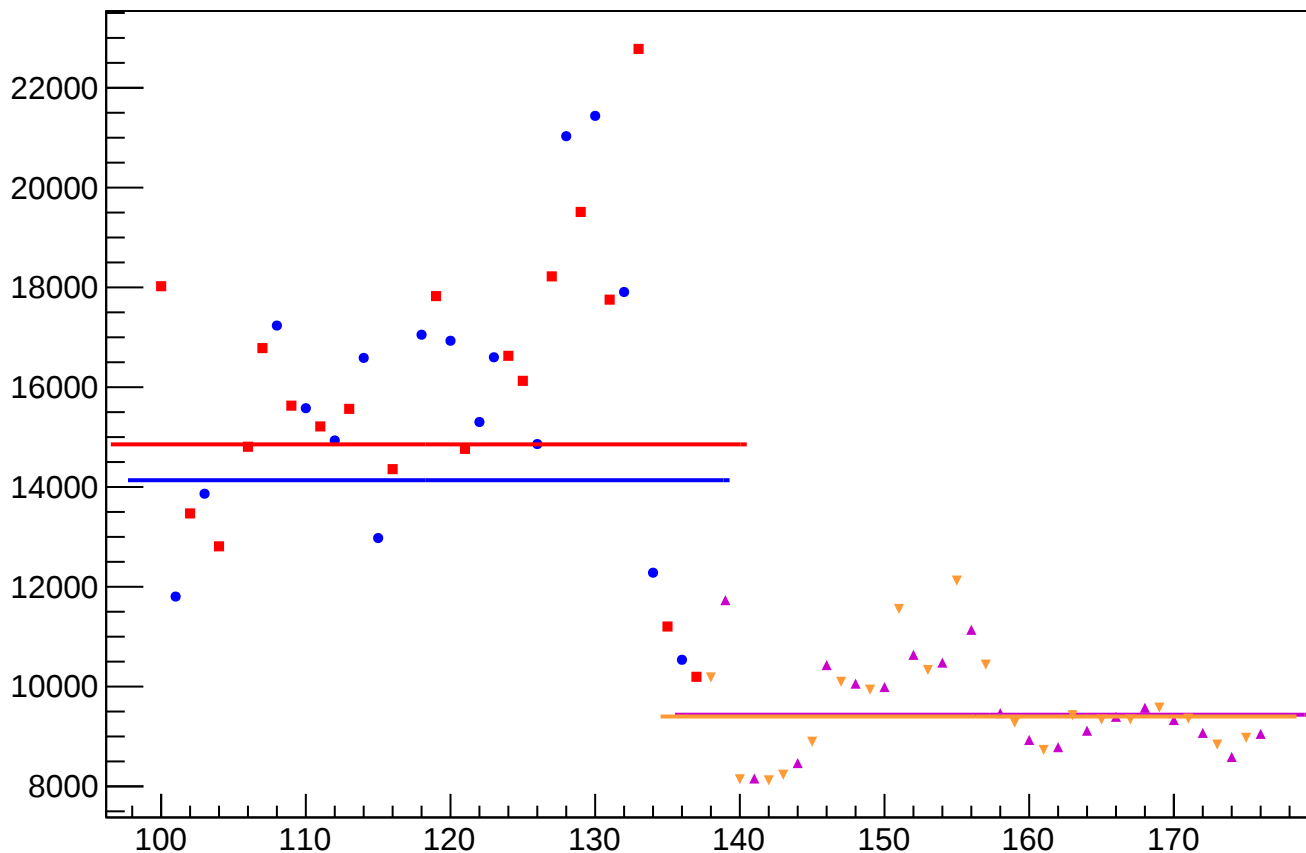
Out: -8.869 ± 2.244

$\chi^2/\text{NDF}: 80.4/38$

All: -4.419 ± 1.595

$\chi^2/\text{NDF}: 138.6/74$

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9400.329 $\pm$ 1.727 χ^2 /NDF: 294178.9/19

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: 9417.929 $\pm$ 1.230 χ^2 /NDF: 544804.9/38

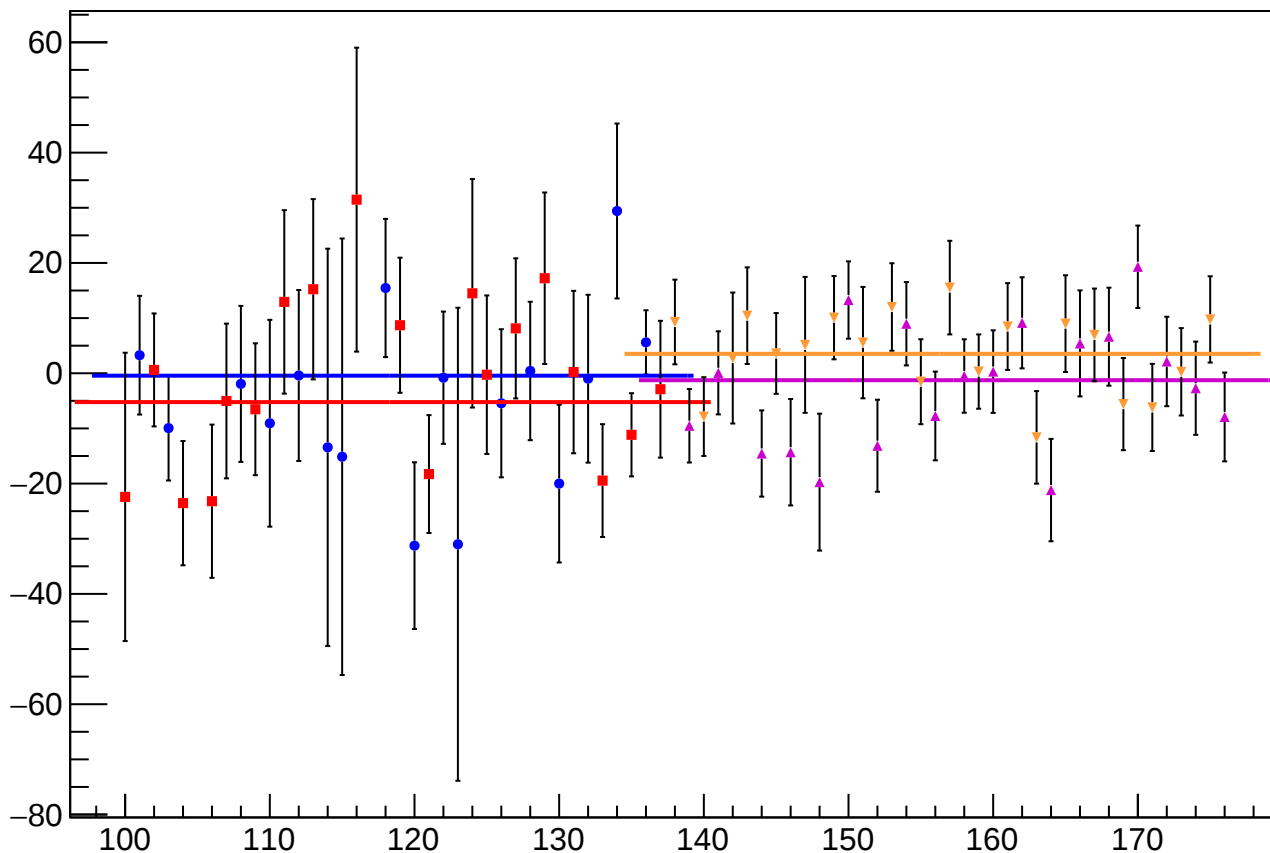
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

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

Out: 10252.096 $\pm$ 1.586 χ^2 /NDF: 2323568.1/38

All: 10228.569 $\pm$ 1.128 χ^2 /NDF: 4346425.0/76

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.441 $\pm$ 3.071 χ^2/NDF : 14.5/16

Left Out: 3.524 $\pm$ 1.831 χ^2/NDF : 16.1/19

Right Out: -5.229 $\pm$ 2.936 χ^2/NDF : 19.4/18

Left In: -1.261 $\pm$ 1.844 χ^2/NDF : 33.3/18

Left: 1.148 $\pm$ 1.299 χ^2/NDF : 52.8/38

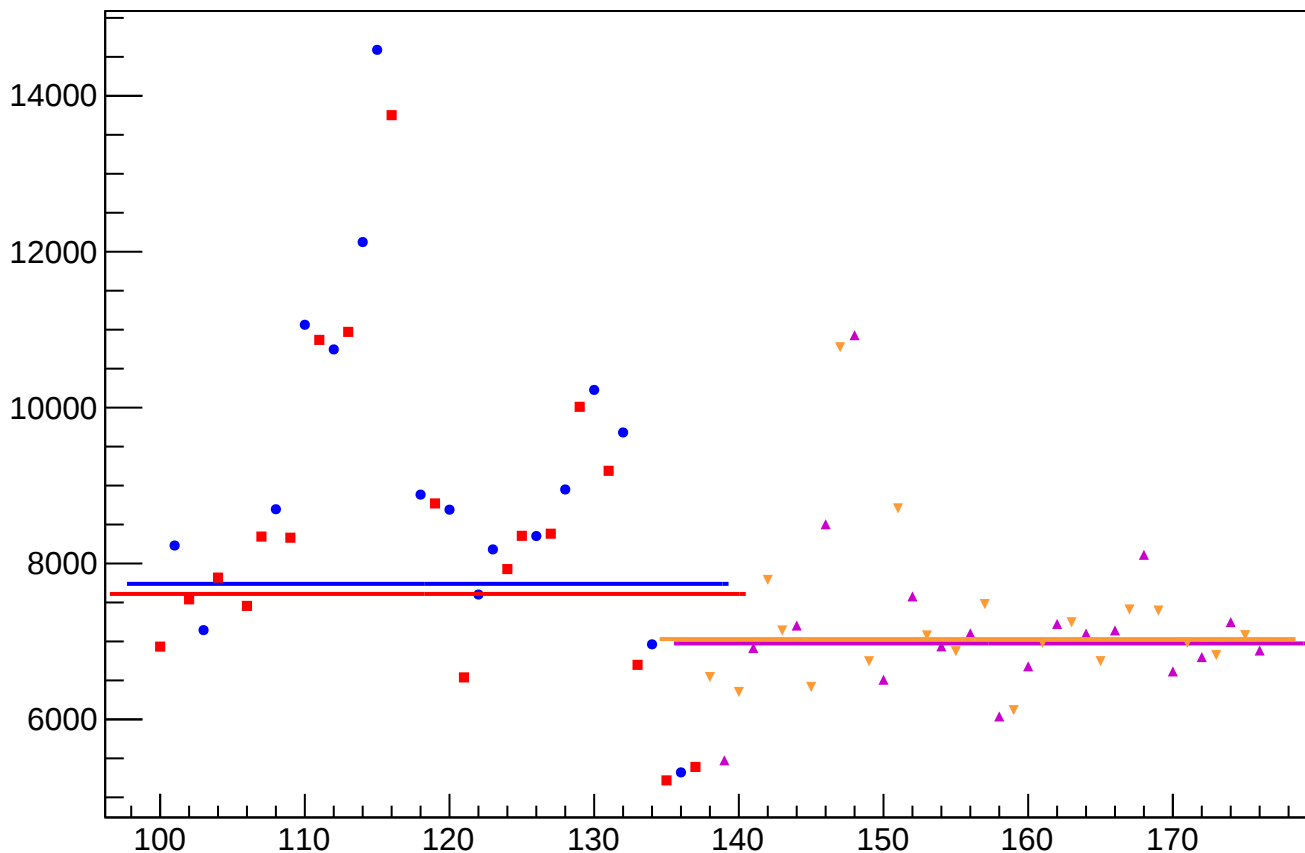
Right: -2.943 $\pm$ 2.122 χ^2/NDF : 35.2/35

In: -1.044 $\pm$ 1.581 χ^2/NDF : 47.9/35

Out: 1.072 $\pm$ 1.554 χ^2/NDF : 41.8/38

All: 0.032 $\pm$ 1.108 χ^2/NDF : 90.6/74

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7030.644+/-1.295 χ^2/NDF : 347370.2/19

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: 7002.719+/-0.919 χ^2/NDF : 810850.8/38

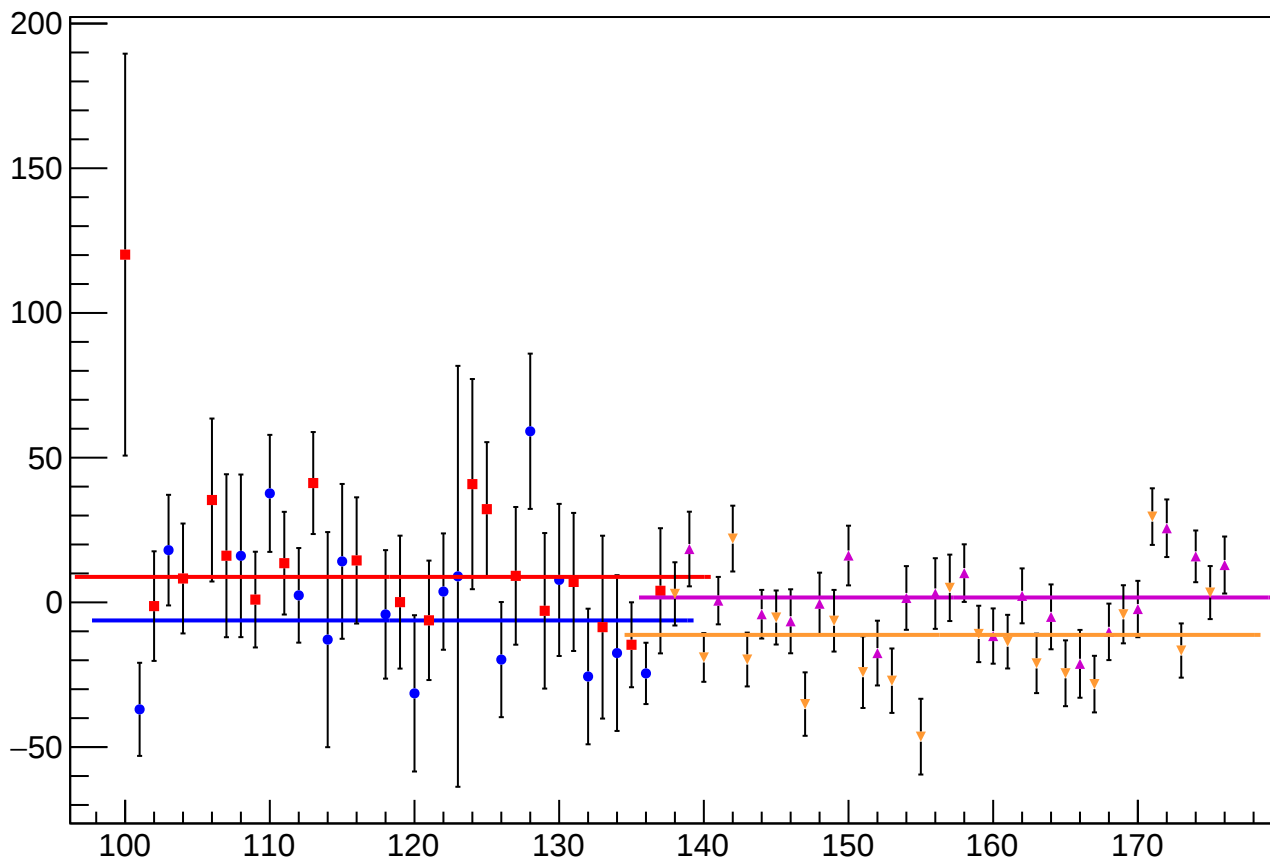
Right: 7671.298+/-1.501 χ^2/NDF : 1421871.4/35

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

Out: 7192.806+/-1.099 χ^2/NDF : 1082528.3/38

All: 7185.004+/-0.784 χ^2/NDF : 2377112.0/74

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -11.234 $\pm$ 2.282 χ^2/NDF : 55.9/19

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

Left In: 1.692 $\pm$ 2.321 χ^2/NDF : 25.8/18

Left: -4.878 $\pm$ 1.627 χ^2/NDF : 97.4/38

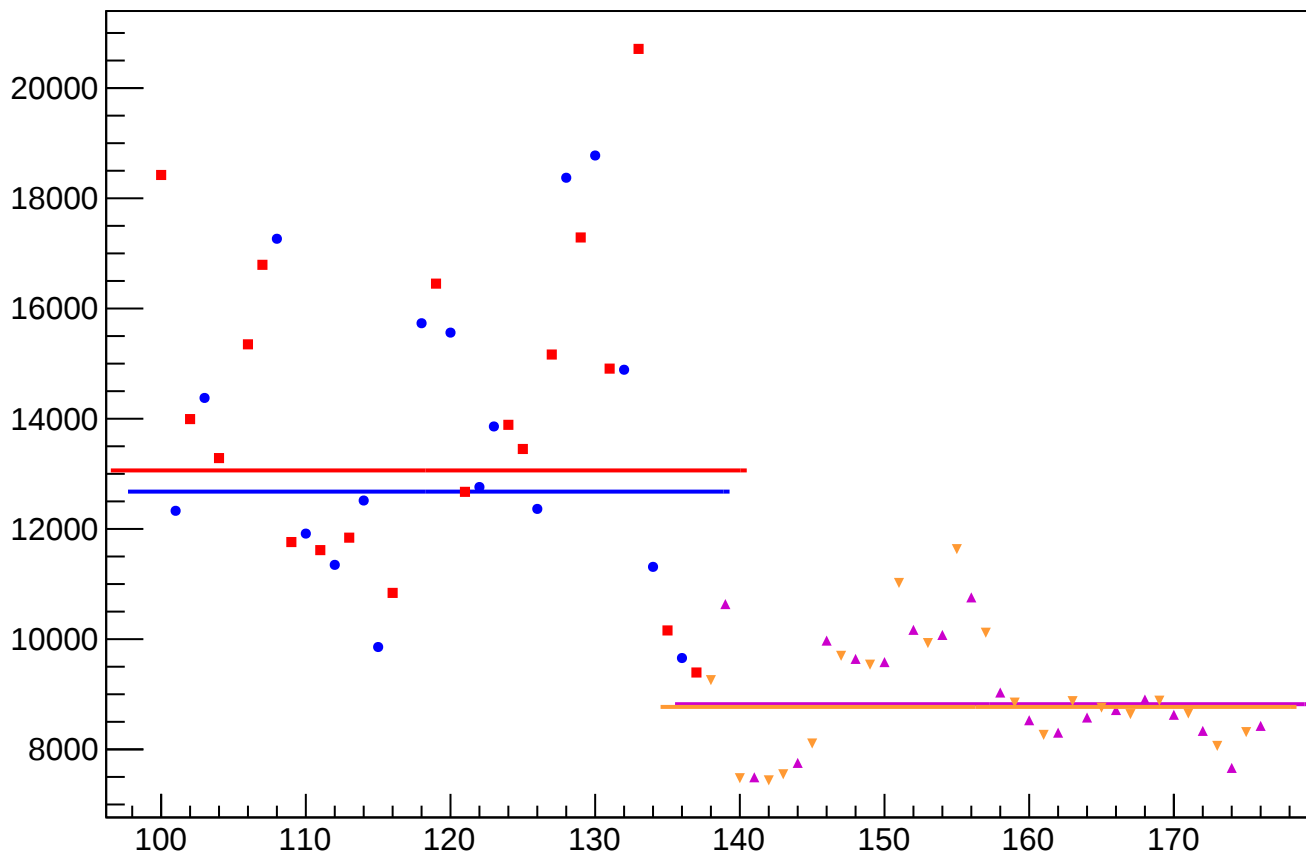
Right: 1.306 $\pm$ 3.541 χ^2/NDF : 40.9/35

In: 0.294 $\pm$ 2.106 χ^2/NDF : 51.1/35

Out: -7.778 $\pm$ 2.076 χ^2/NDF : 82.3/38

All: -3.800 $\pm$ 1.479 χ^2/NDF : 140.8/74

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8770.480+/-1.614 χ^2/NDF : 382570.9/19

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

Left In: 8819.886+/-1.641 χ^2/NDF : 326448.1/18

Left: 8794.773+/-1.151 χ^2/NDF : 709479.8/38

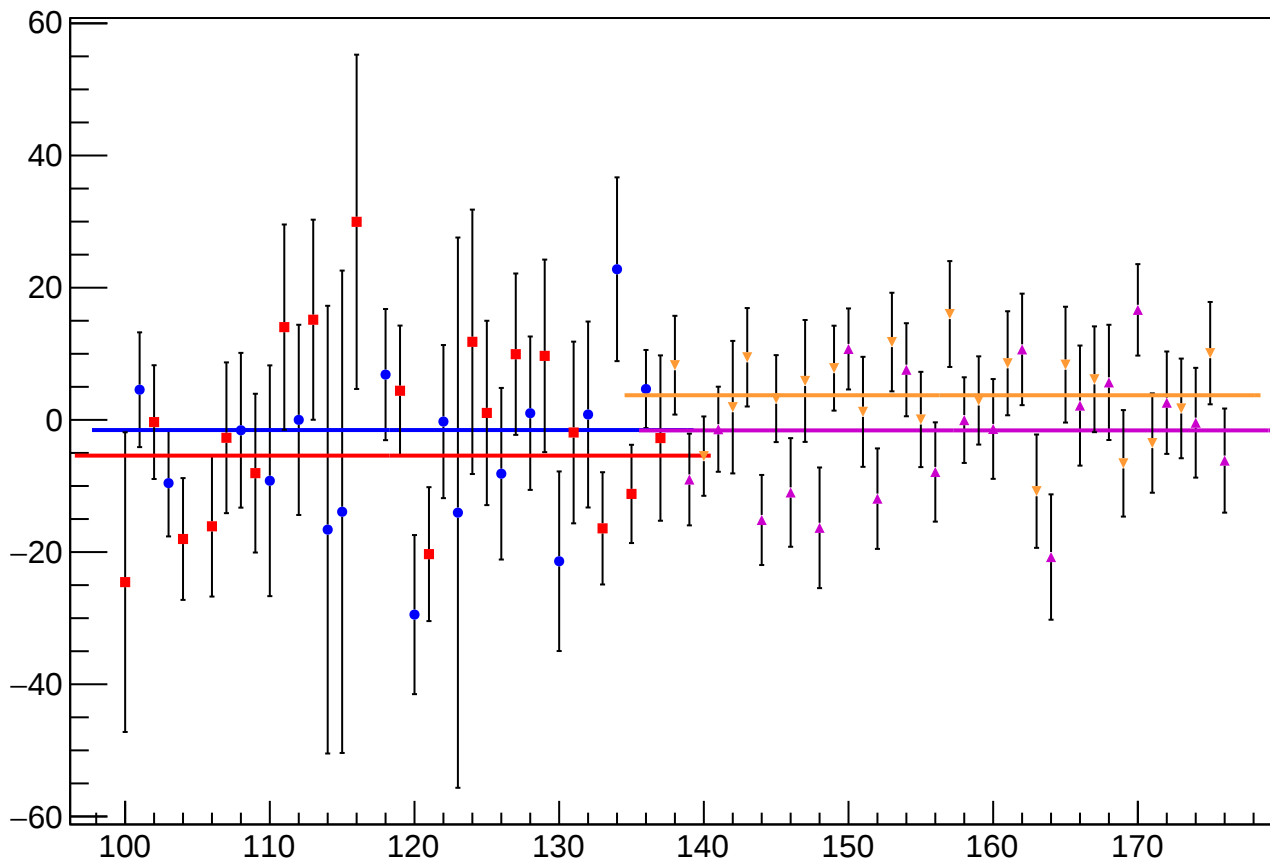
Right: 12870.370+/-2.504 χ^2/NDF : 1056923.6/35

In: 9499.696+/-1.489 χ^2/NDF : 1853991.5/35

Out: 9510.683+/-1.468 χ^2/NDF : 2099489.0/38

All: 9505.268+/-1.046 χ^2/NDF : 3953508.0/74

diff_bpm4eY_mean vs Slug, Sign Corrected



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

Left Out: 3.727 ± 1.695 χ^2/NDF : 14.6/19

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

Left In: -1.589 ± 1.728 χ^2/NDF : 32.0/18

Left: 1.120 ± 1.210 χ^2/NDF : 51.5/38

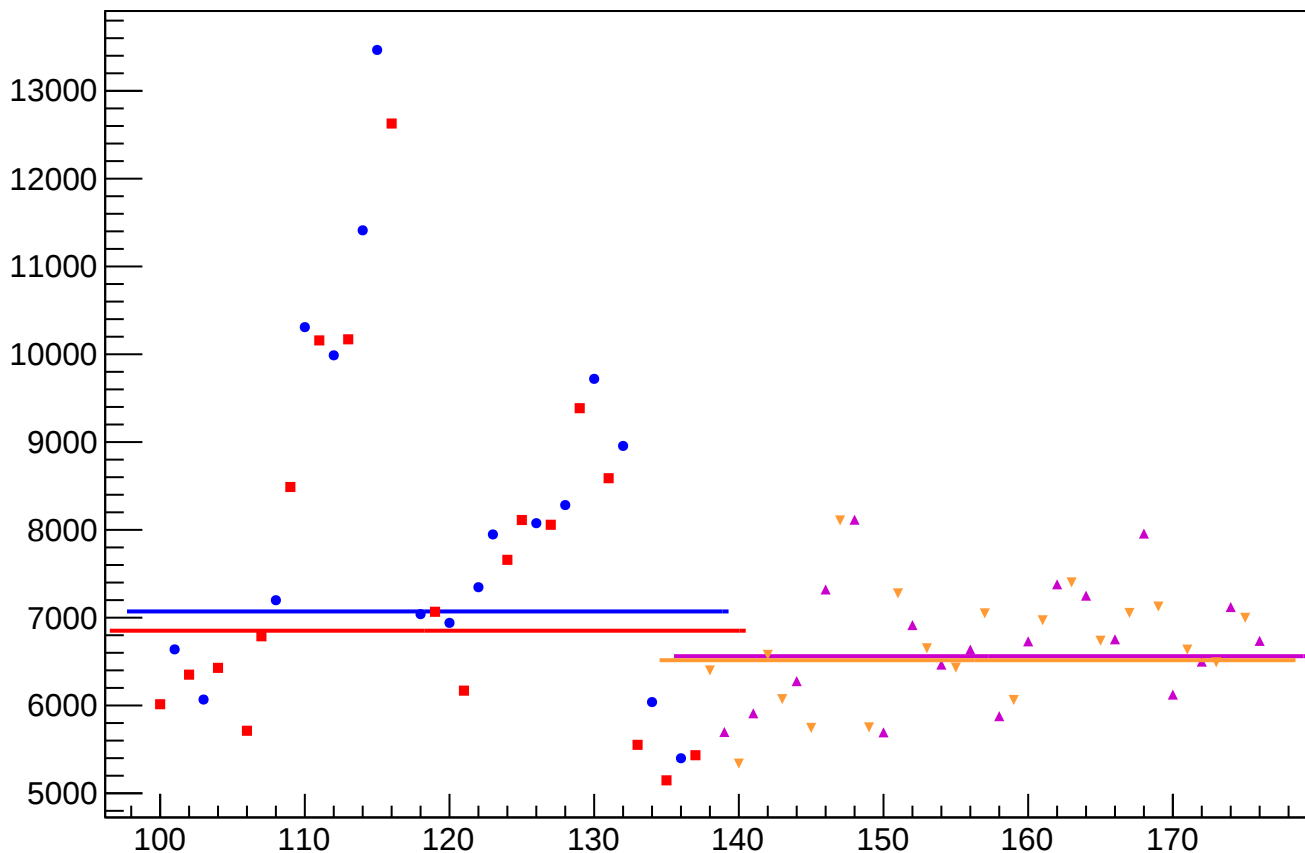
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -1.575 ± 1.469 χ^2/NDF : 46.9/35

Out: 1.062 ± 1.426 χ^2/NDF : 41.7/38

All: -0.217 ± 1.023 χ^2/NDF : 90.2/74

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6515.559+/-1.198 χ^2/NDF : 294001.3/19

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: 6538.053+/-0.855 χ^2/NDF : 592725.6/38

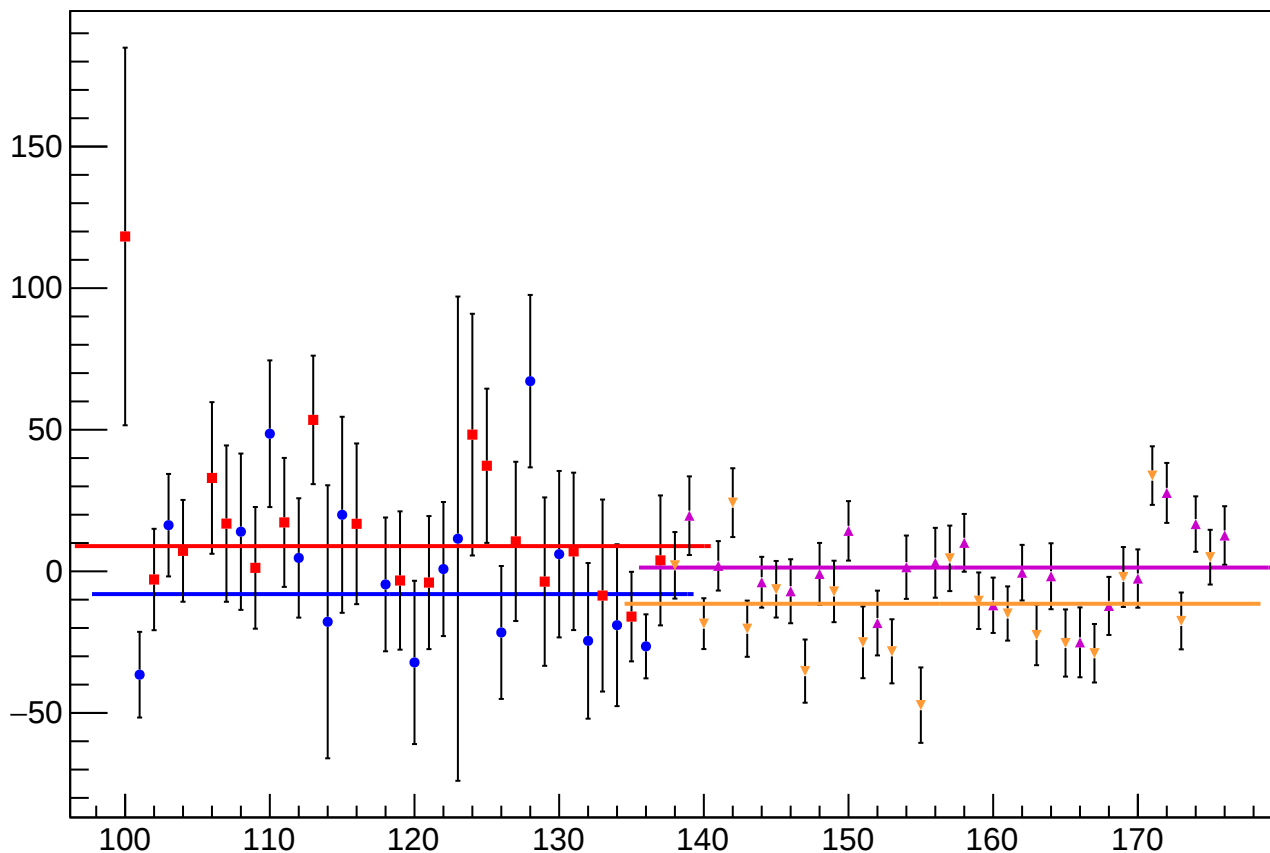
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

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

Out: 6613.638+/-1.008 χ^2/NDF : 1001354.1/38

All: 6656.825+/-0.723 χ^2/NDF : 1952112.2/74

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -11.445 ± 2.388 $\chi^2/\text{NDF}: 57.5/19$

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

Left In: 1.334 ± 2.424 $\chi^2/\text{NDF}: 26.2/18$

Left: -5.152 ± 1.701 $\chi^2/\text{NDF}: 97.8/38$

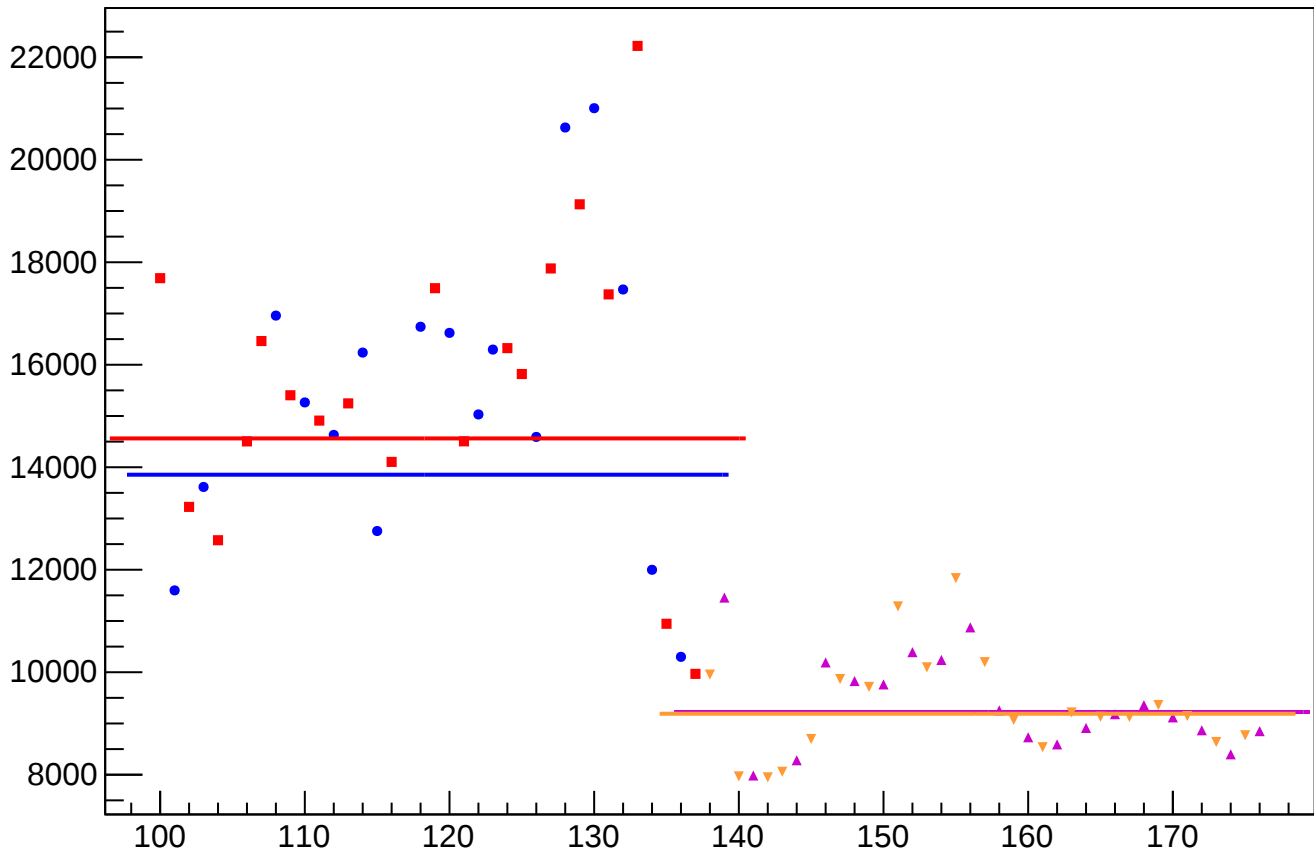
Right: 0.330 ± 3.911 $\chi^2/\text{NDF}: 41.0/35$

In: -0.191 ± 2.218 $\chi^2/\text{NDF}: 51.2/35$

Out: -8.283 ± 2.194 $\chi^2/\text{NDF}: 82.5/38$

All: -4.280 ± 1.560 $\chi^2/\text{NDF}: 140.4/74$

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9189.738 $\pm$ 1.688 χ^2 /NDF:291064.5/19

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: 9206.722 $\pm$ 1.203 χ^2 /NDF: 538942.8/38

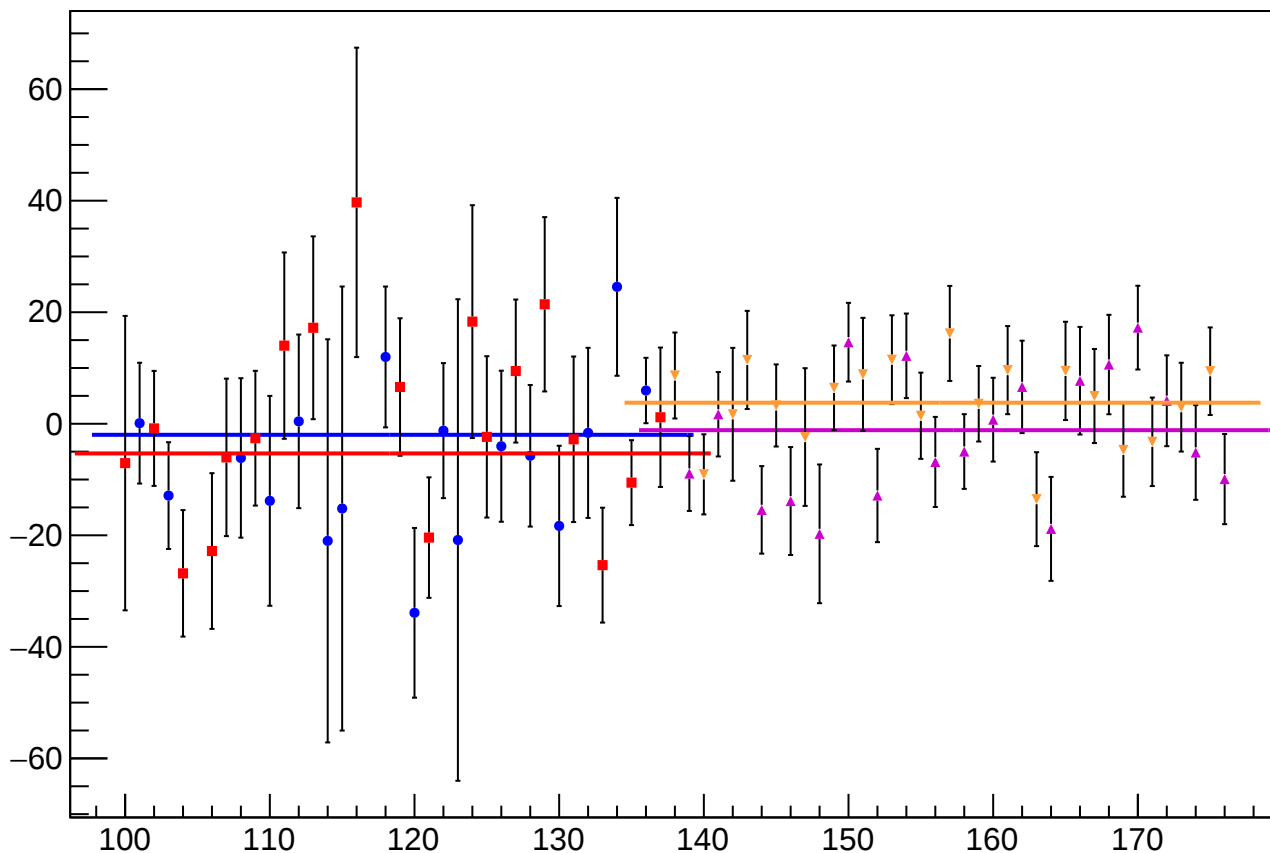
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

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

Out: 10024.598 $\pm$ 1.552 χ^2 /NDF:2339095.8/38

All: 10001.421 $\pm$ 1.103 χ^2 /NDF: 4375941.8/71

diff_bpm4acY_mean vs Slug, Sign Corrected



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

Left Out: 3.777 ± 1.840 χ^2/NDF : 15.7/19

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: 1.330 ± 1.305 χ^2/NDF : 53.8/38

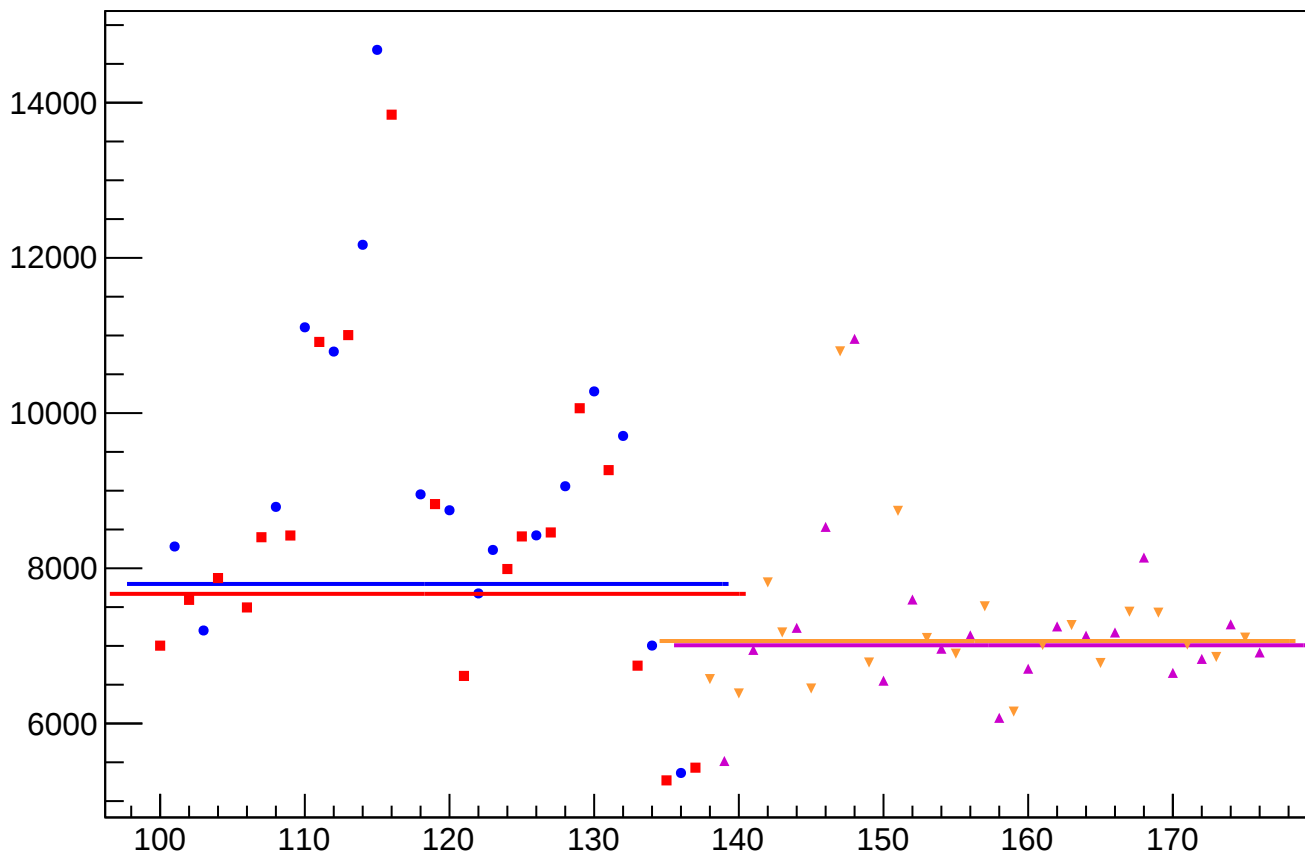
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -1.369 ± 1.589 χ^2/NDF : 48.7/35

Out: 1.241 ± 1.562 χ^2/NDF : 46.8/38

All: -0.041 ± 1.114 χ^2/NDF : 96.9/74

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7062.940+/-1.301 χ^2/NDF : 343434.6/19

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

Left In: 7007.912+/-1.310 χ^2/NDF : 455468.7/18

Left: 7035.613+/-0.923 χ^2/NDF : 799792.1/38

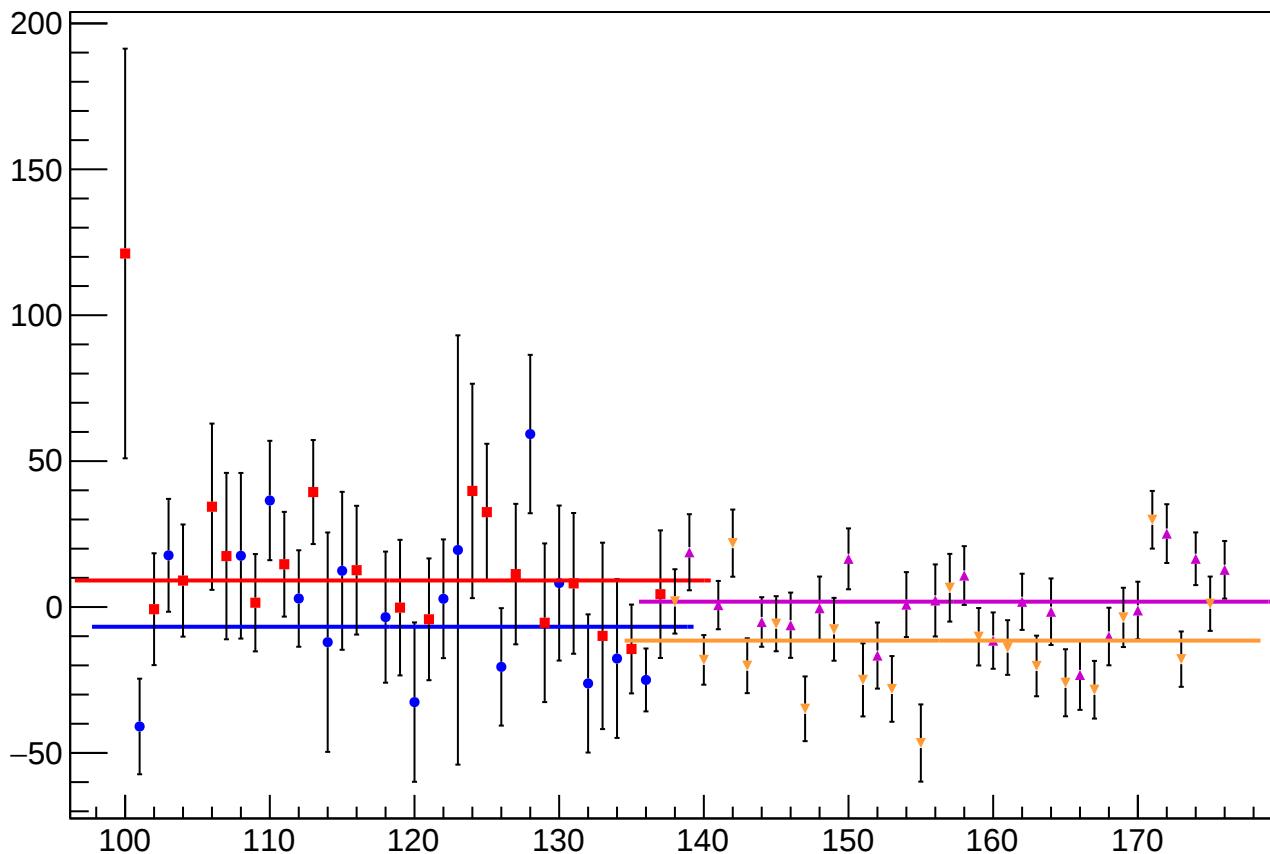
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7216.410+/-1.124 χ^2/NDF : 1287833.9/35

Out: 7232.358+/-1.105 χ^2/NDF : 1076971.9/38

All: 7224.521+/-0.788 χ^2/NDF : 2364908.2/74

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.760 $\pm$ 5.085 χ^2/NDF : 23.7/16

Left Out: -11.503 $\pm$ 2.308 χ^2/NDF : 54.8/19

Right Out: 9.102 $\pm$ 5.070 χ^2/NDF : 12.2/18

Left In: 1.834 $\pm$ 2.348 χ^2/NDF : 25.6/18

Left: -4.947 $\pm$ 1.646 χ^2/NDF : 96.8/38

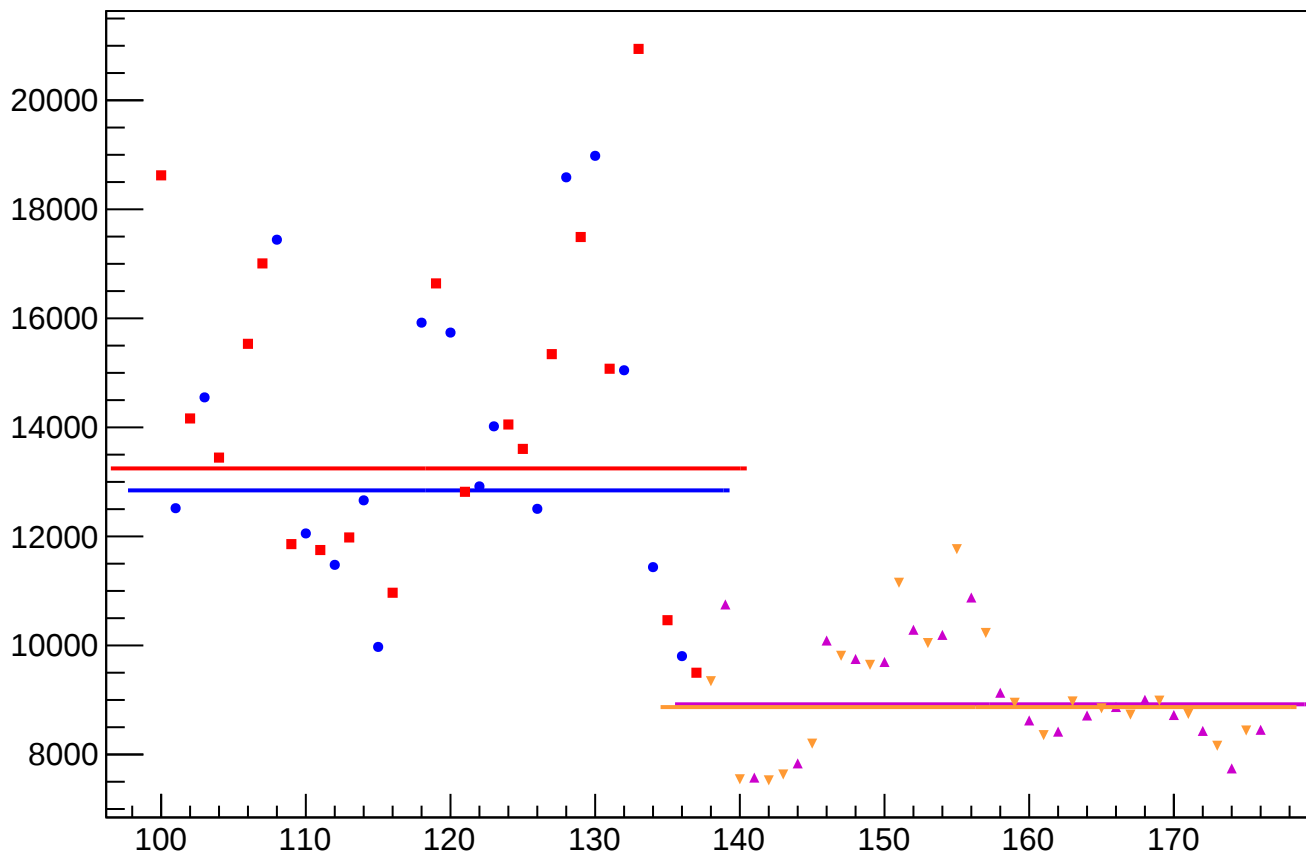
Right: 1.193 $\pm$ 3.590 χ^2/NDF : 40.8/35

In: 0.324 $\pm$ 2.131 χ^2/NDF : 51.6/35

Out: -7.966 $\pm$ 2.101 χ^2/NDF : 80.7/38

All: -3.881 $\pm$ 1.496 χ^2/NDF : 140.0/74

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8869.357+/-1.632 χ^2/NDF : 383112.4/19

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: 8894.360+/-1.164 χ^2/NDF : 711638.8/38

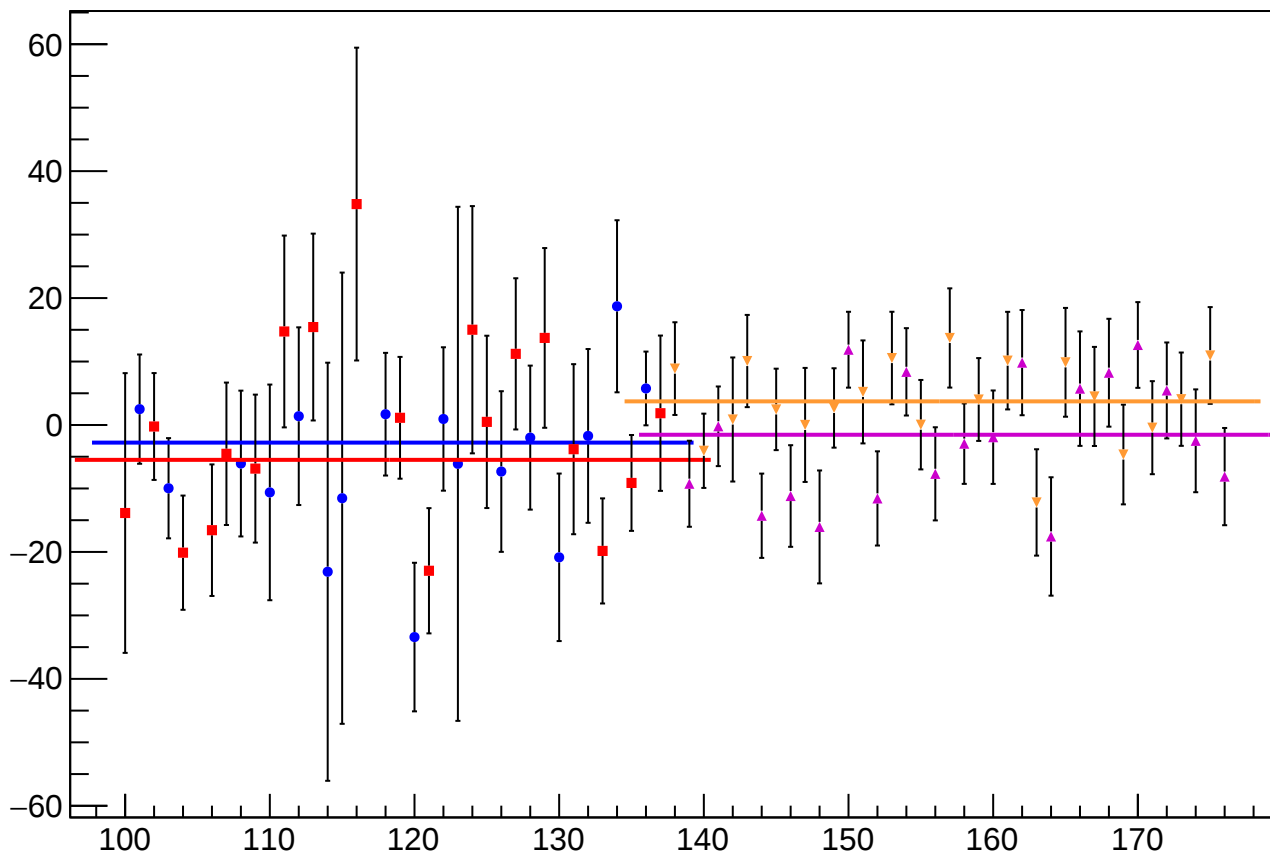
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

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

Out: 9620.883+/-1.485 χ^2/NDF : 2103605.4/38

All: 9615.382+/-1.058 χ^2/NDF : 3960838.0/74

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

Left Out: 3.725+/-1.655 χ^2/NDF :13.4/19

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

Left In: -1.537+/-1.688 χ^2/NDF :31.6/18

Left: 1.146+/-1.181 χ^2/NDF : 50.0/38

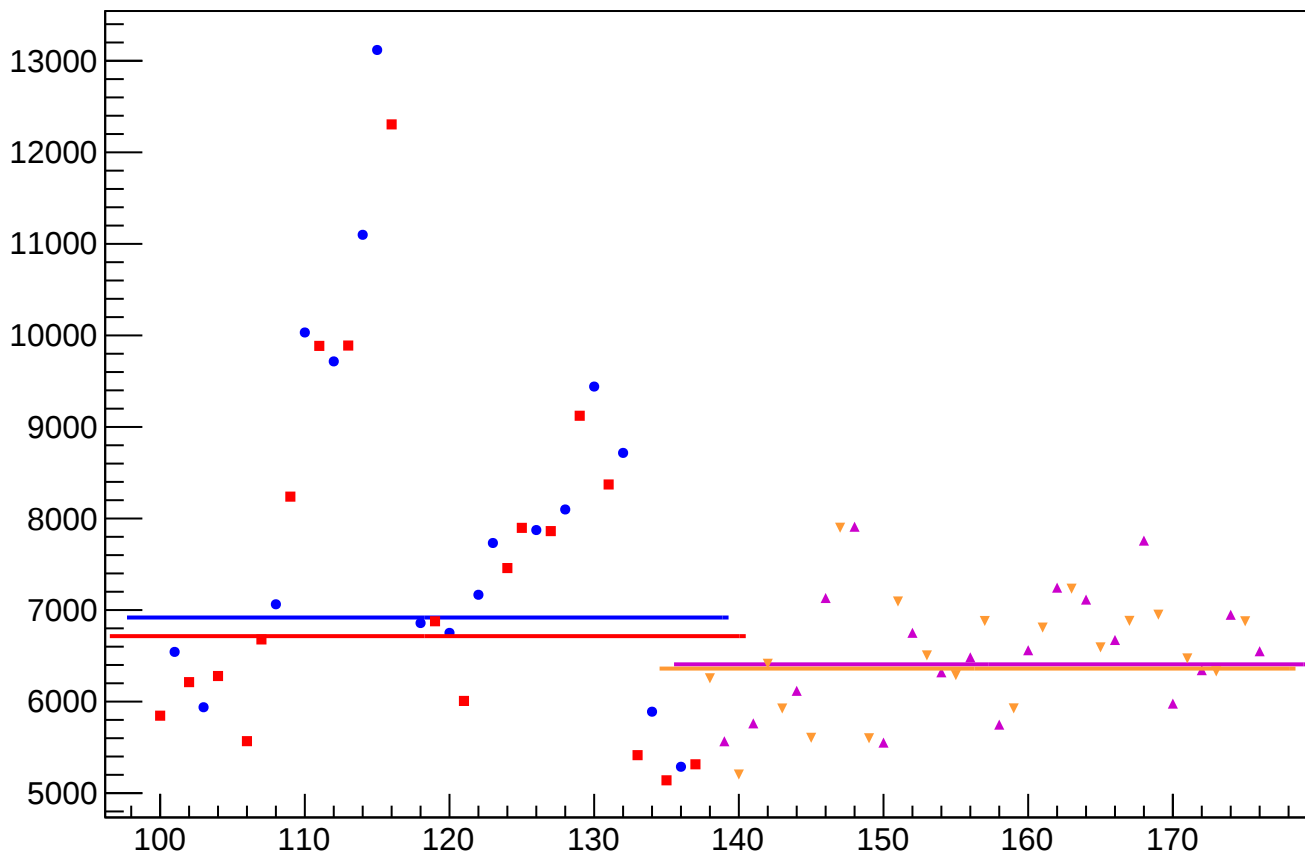
Right: -4.206+/-1.879 χ^2/NDF : 39.6/35

In: -1.879+/-1.436 χ^2/NDF :47.7/35

Out: 1.050+/-1.394 χ^2/NDF :45.5/38

All: -0.371+/-1.000 χ^2/NDF : 95.4/74

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6360.677+/-1.170 χ^2/NDF : 296784.5/19

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

Left In: 6406.833+/-1.193 χ^2/NDF : 299507.8/18

Left: 6383.300+/-0.835 χ^2/NDF : 597055.2/38

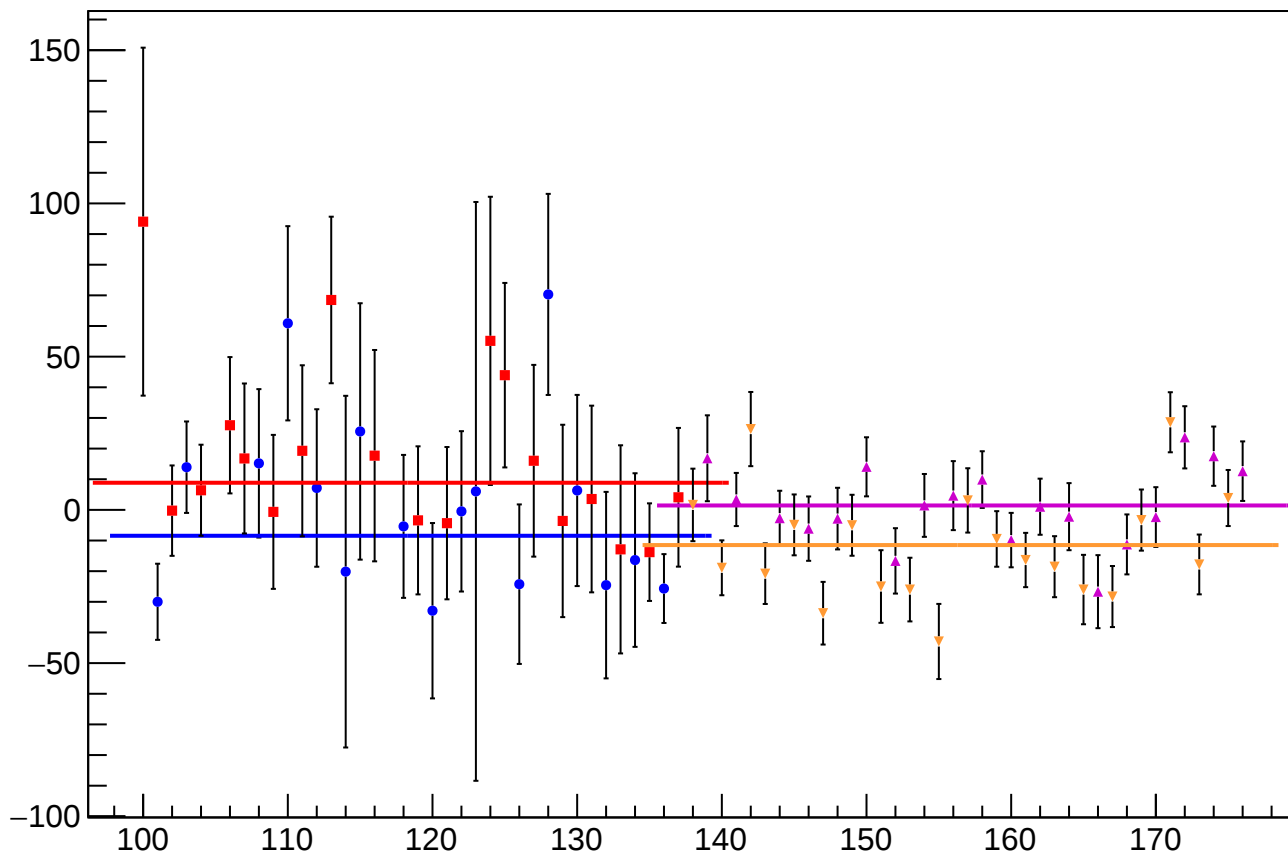
Right: 6811.237+/-1.328 χ^2/NDF : 1248897.6/35

In: 6548.157+/-1.015 χ^2/NDF : 937330.5/35

Out: 6463.517+/-0.986 χ^2/NDF : 979418.3/38

All: 6504.589+/-0.707 χ^2/NDF : 1920327.1/74

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -11.482 $\pm$ 2.268 χ^2/NDF : 55.9/19

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

Left In: 1.439 $\pm$ 2.291 χ^2/NDF : 25.7/18

Left: -5.087 $\pm$ 1.612 χ^2/NDF : 97.7/38

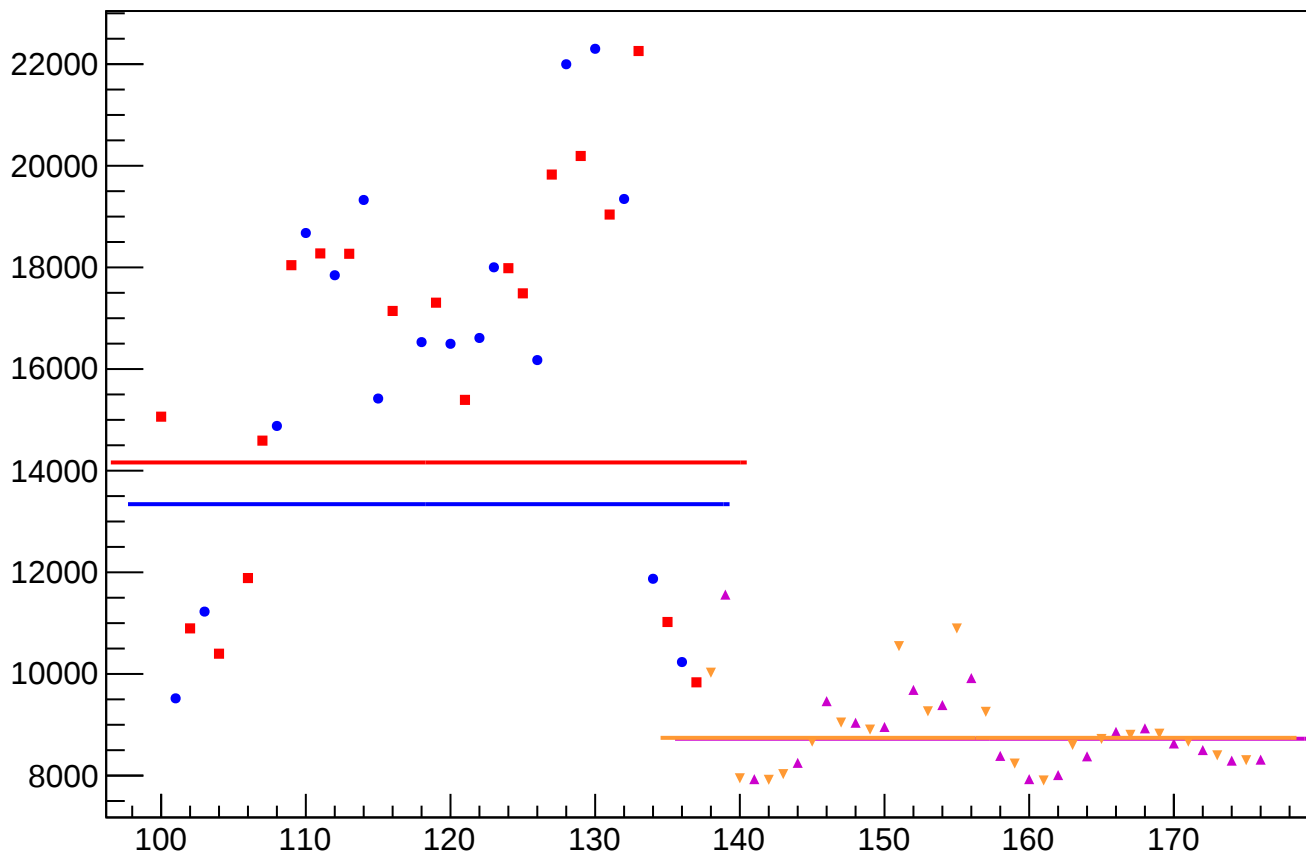
Right: 0.019 $\pm$ 3.854 χ^2/NDF : 41.3/35

In: -0.073 $\pm$ 2.109 χ^2/NDF : 50.6/35

Out: -8.534 $\pm$ 2.097 χ^2/NDF : 81.8/38

All: -4.327 $\pm$ 1.487 χ^2/NDF : 140.4/74

diff_bpm1X_rms vs Slug, Sign Corrected



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

Left Out: 8742.942 $\pm$ 1.604 χ^2/NDF :211275.0/19

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: 8734.173 $\pm$ 1.140 χ^2/NDF : 418509.0/38

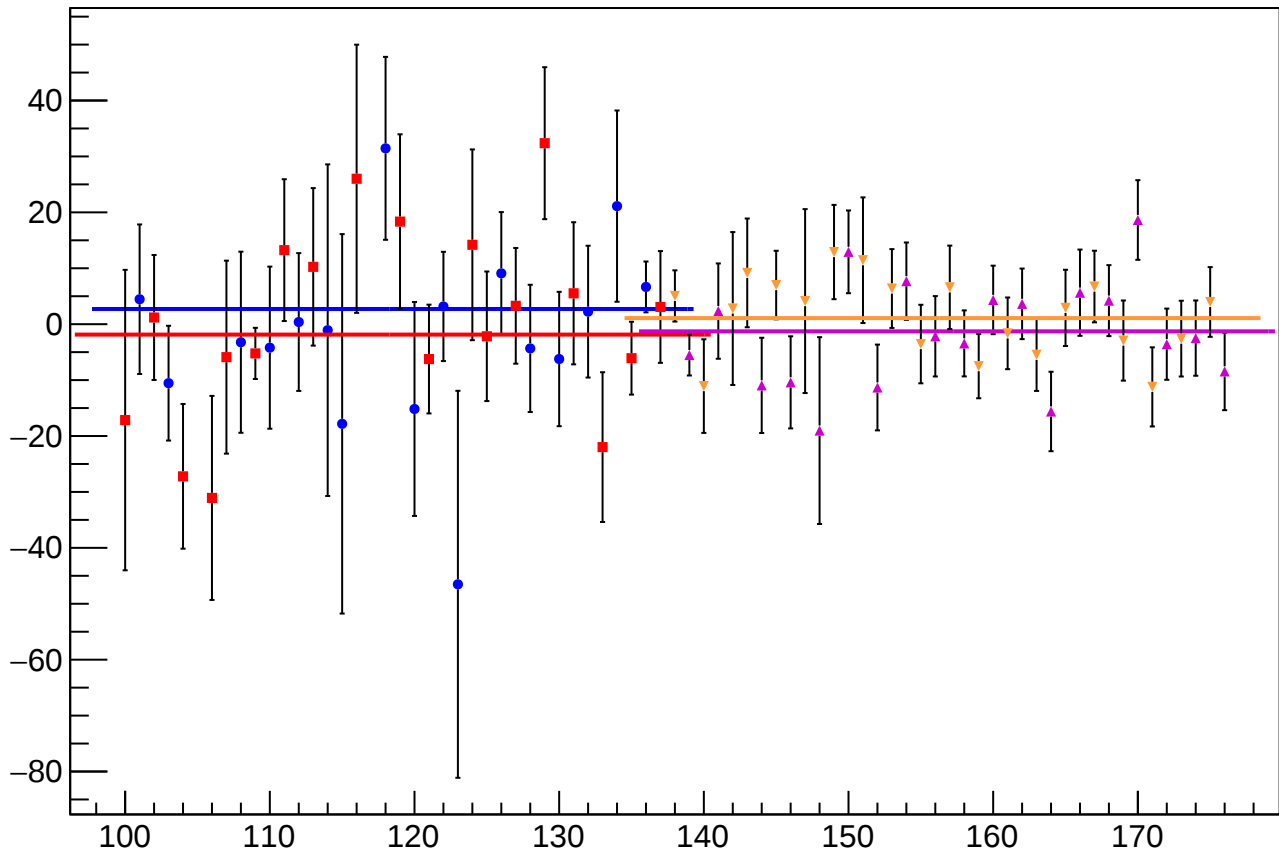
Right: 13742.695 $\pm$ 2.725 χ^2/NDF : 1999035.6/35

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

Out: 9528.515 $\pm$ 1.483 χ^2/NDF :2798015.9/38

All: 9480.024 $\pm$ 1.052 χ^2/NDF : 5292967.8/74

diff_bpm1Y_mean vs Slug, Sign Corrected



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

Left Out: 1.089 ± 1.581 $\chi^2/\text{NDF}: 17.0/19$

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: -0.131 ± 1.101 $\chi^2/\text{NDF}: 46.7/38$

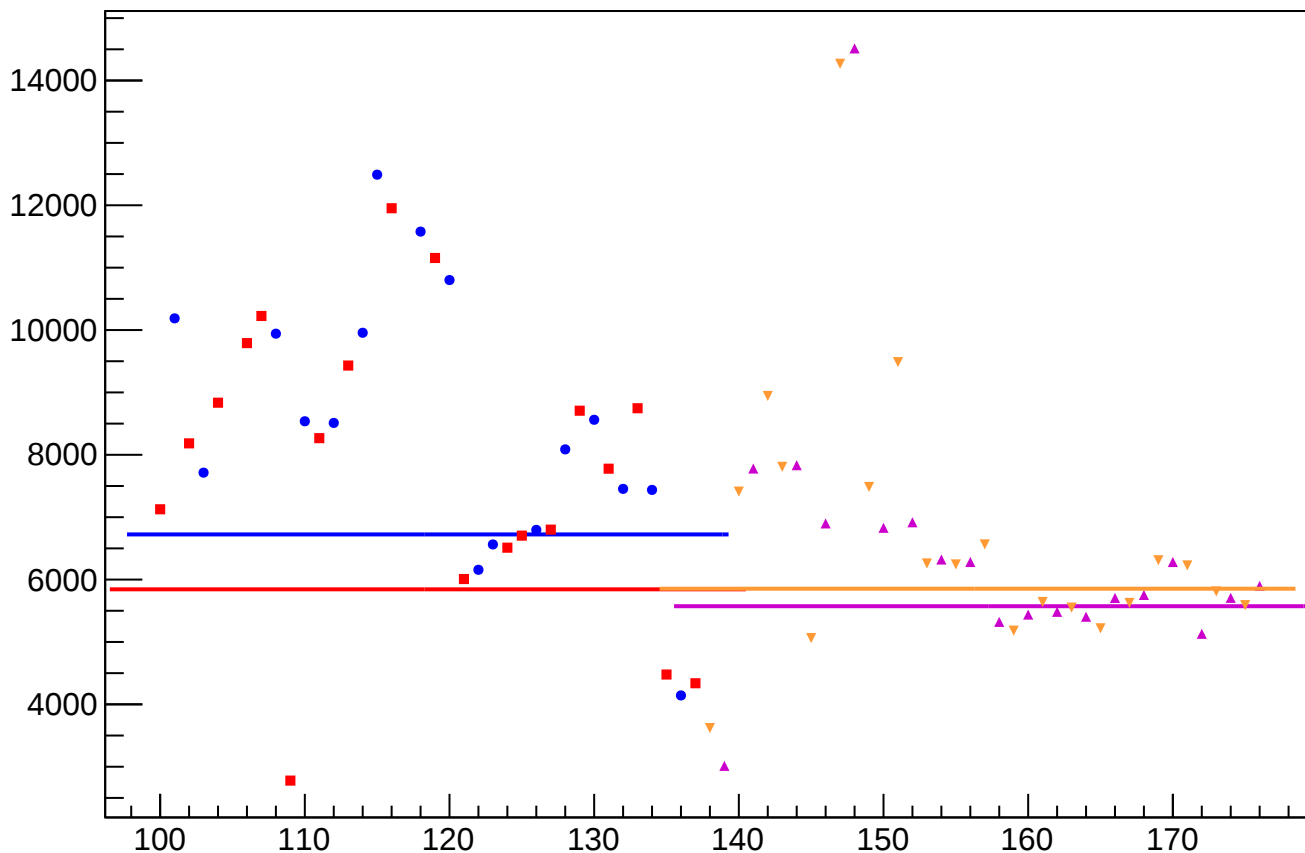
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

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

Out: 0.216 ± 1.327 $\chi^2/\text{NDF}: 41.6/38$

All: -0.055 ± 0.943 $\chi^2/\text{NDF}: 83.5/74$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6723.839 $\pm$ 1.946 χ^2 /NDF: 1392082.5/16

Left Out: 5853.498 $\pm$ 1.118 χ^2 /NDF: 1670821.4/19

Right Out: 5843.829 $\pm$ 1.725 χ^2 /NDF: 2277223.8/18

Left In: 5573.022 $\pm$ 1.084 χ^2 /NDF: 2084862.6/18

Left: 5708.961 $\pm$ 0.778 χ^2 /NDF: 3788125.4/38

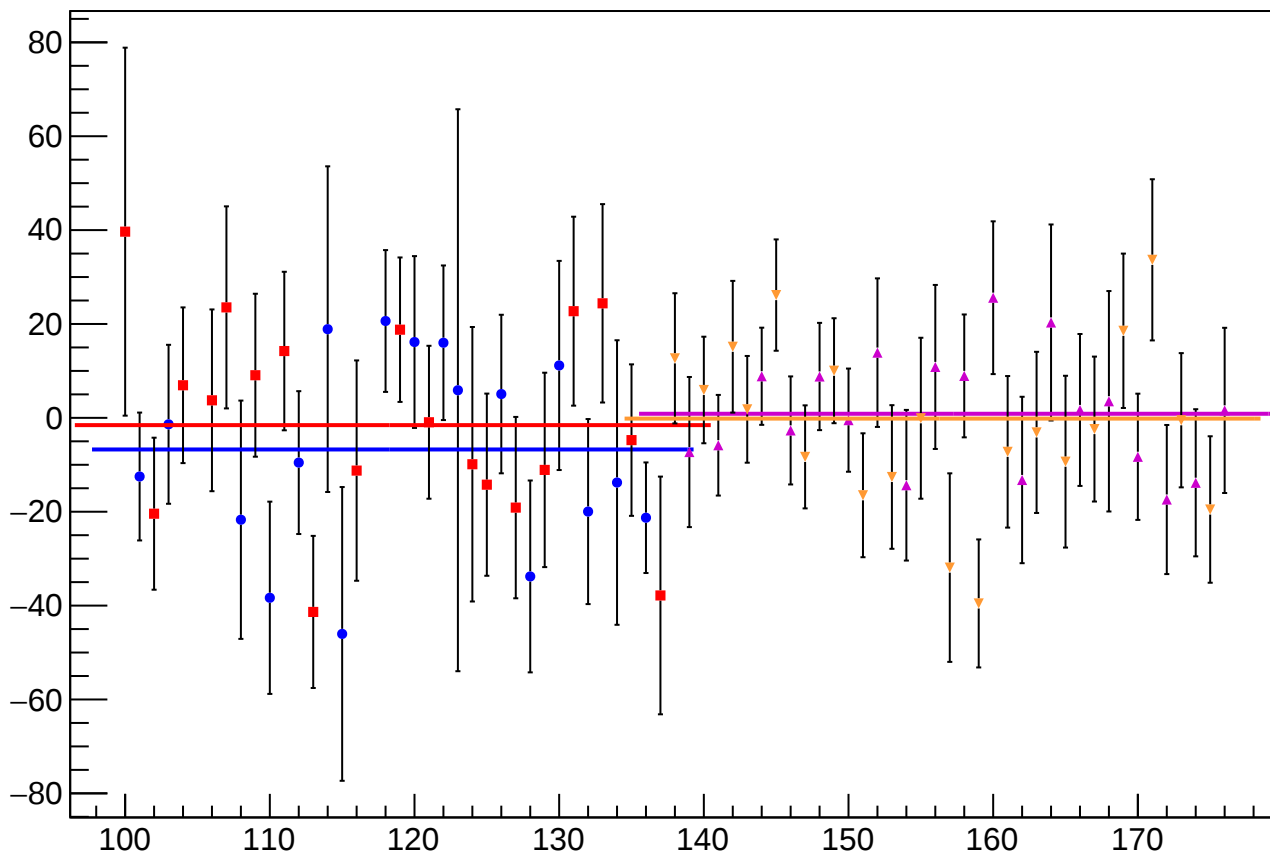
Right: 6230.943 $\pm$ 1.291 χ^2 /NDF: 3783849.2/35

In: 5845.594 $\pm$ 0.947 χ^2 /NDF: 3743844.0/35

Out: 5850.638 $\pm$ 0.938 χ^2 /NDF: 3948067.4/38

All: 5848.140 $\pm$ 0.666 χ^2 /NDF: 7691925.7/74

diff_bpm11X_mean vs Slug, Sign Corrected



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

Left Out: -0.160 $\pm$ 3.147 χ^2/NDF : 28.9/19

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

Left In: 0.871 $\pm$ 3.260 χ^2/NDF : 10.6/18

Left: 0.337 $\pm$ 2.264 χ^2/NDF : 39.6/38

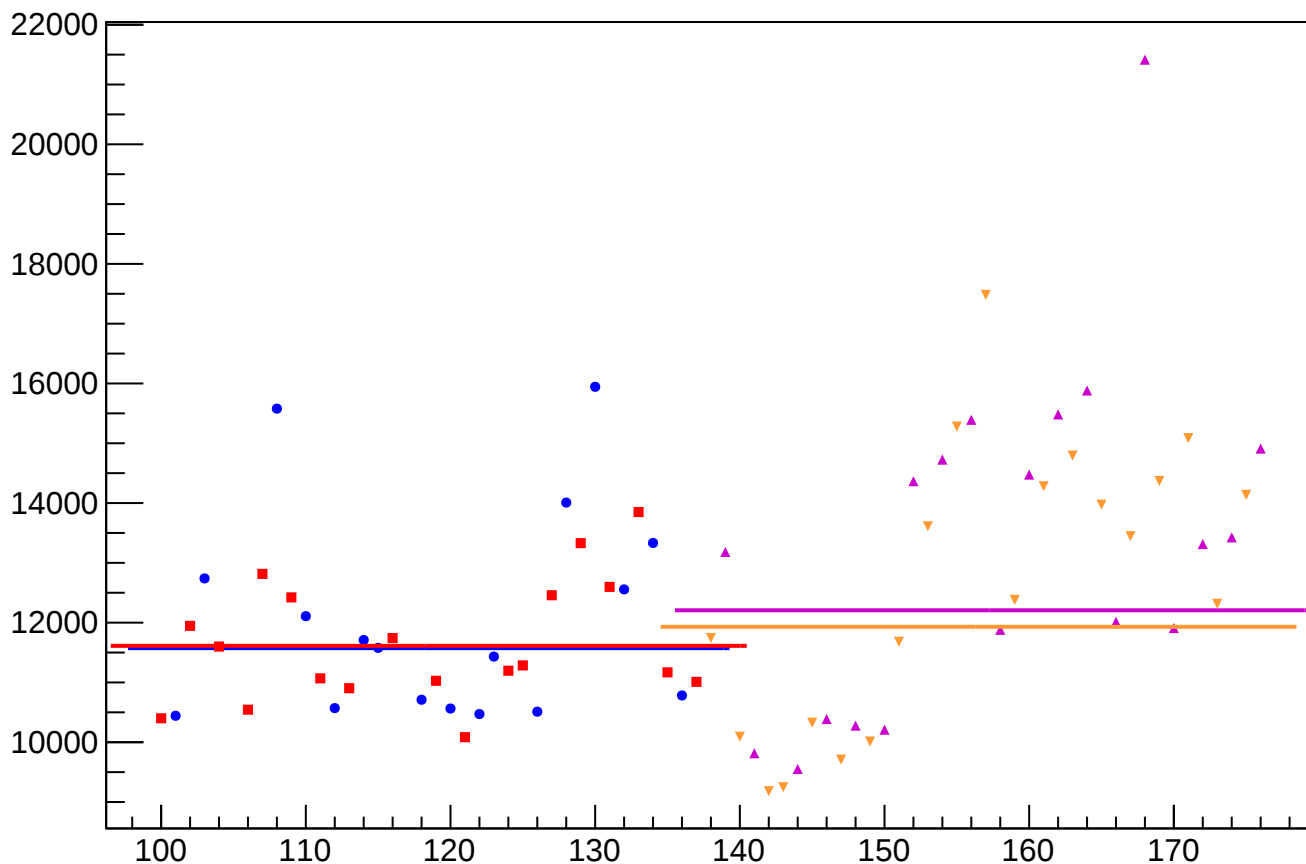
Right: -4.061 $\pm$ 3.140 χ^2/NDF : 37.5/35

In: -1.738 $\pm$ 2.643 χ^2/NDF : 29.4/35

Out: -0.635 $\pm$ 2.554 χ^2/NDF : 48.9/38

All: -1.167 $\pm$ 1.837 χ^2/NDF : 78.4/74

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 11930.644+/-2.226 χ^2/NDF : 969573.1/19

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

Left In: 12206.416+/-2.305 χ^2/NDF : 1112769.7/18

Left: 12063.683+/-1.601 χ^2/NDF : 2089750.1/38

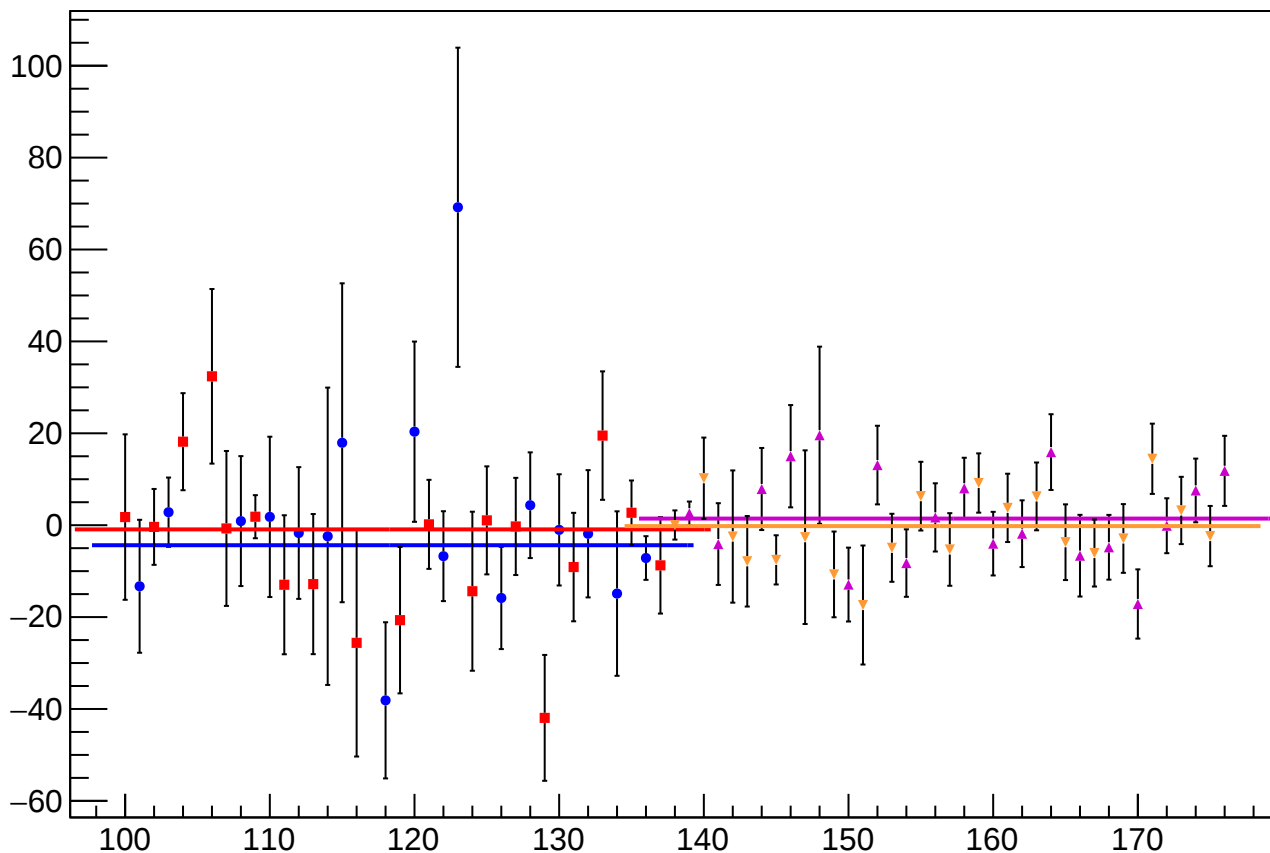
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11989.388+/-1.869 χ^2/NDF : 1377354.2/35

Out: 11821.963+/-1.806 χ^2/NDF : 1070868.2/38

All: 11902.834+/-1.299 χ^2/NDF : 2452372.5/71

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: -0.200 $\pm$ 1.571 χ^2/NDF :16.7/19

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: 0.660 $\pm$ -1.083 χ^2/NDF : 42.8/38

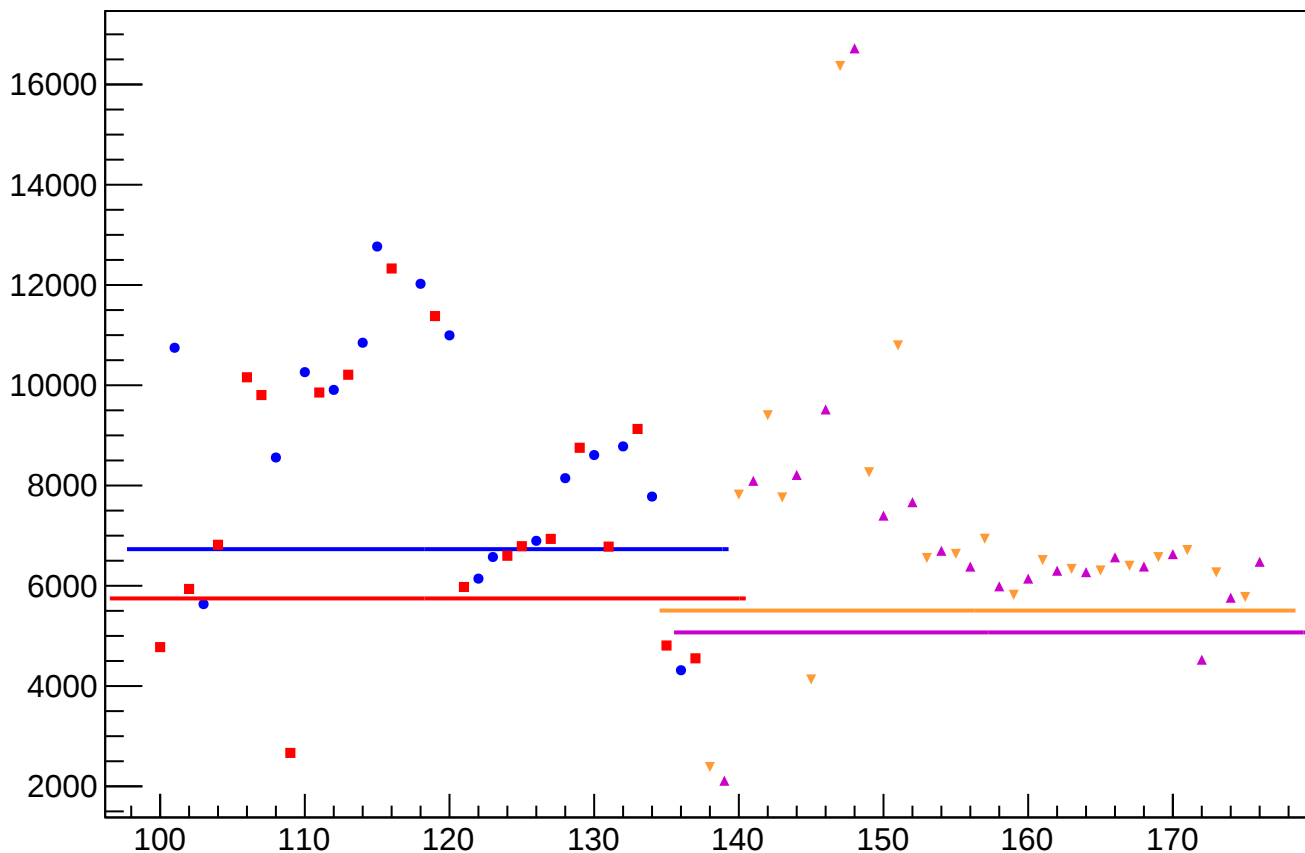
Right: -2.407 $\pm$ -1.827 χ^2/NDF : 38.9/35

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

Out: -0.411 $\pm$ -1.319 χ^2/NDF :40.3/38

All: -0.137 $\pm$ -0.931 χ^2/NDF : 83.8/74

diff_bpm11Y_rms vs Slug, Sign Corrected



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

Left Out: 5506.428 $\pm$ 1.111 χ^2 /NDF: 4001252.2/19

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

Left In: 5069.941 $\pm$ 1.057 χ^2 /NDF: 5213190.3/18

Left: 5277.258 $\pm$ 0.766 χ^2 /NDF: 9295490.8/38

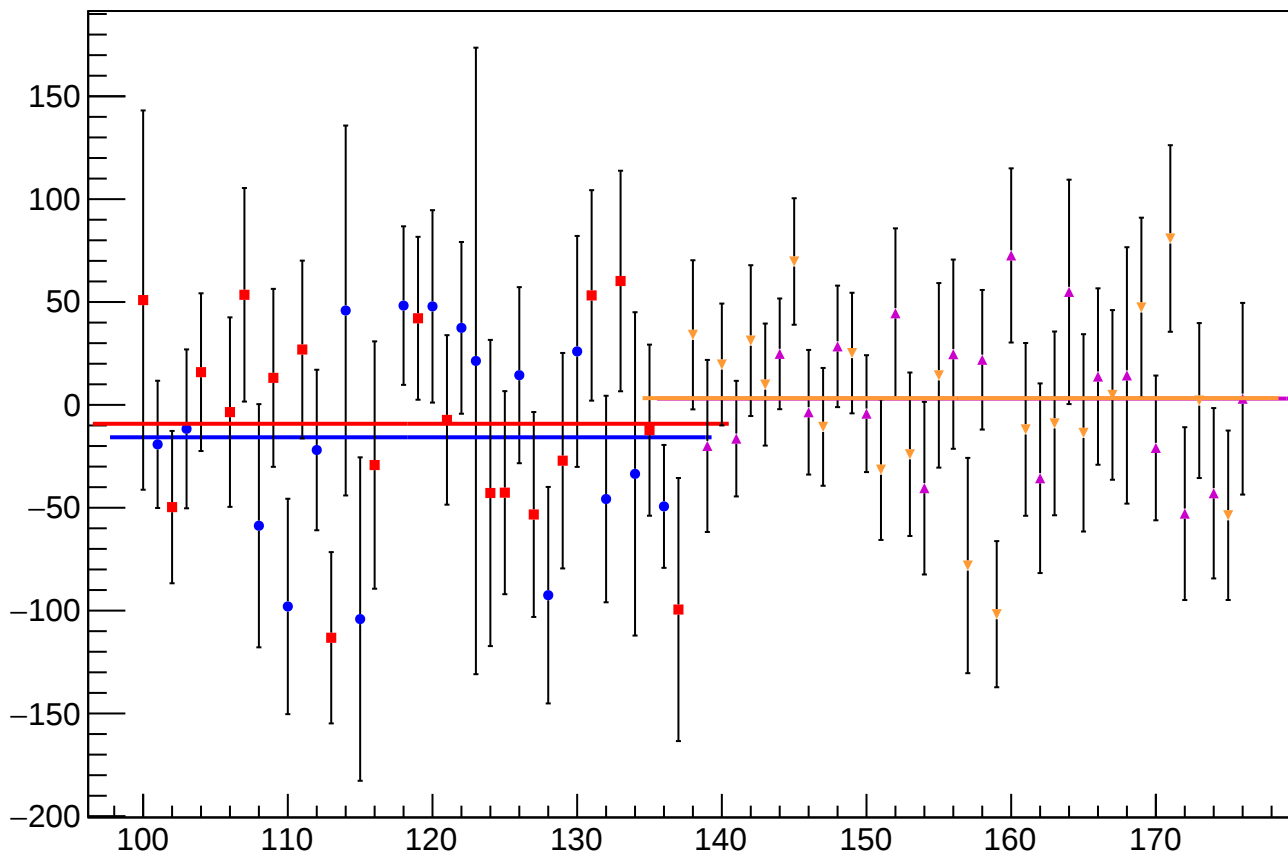
Right: 6173.310 $\pm$ 1.292 χ^2 /NDF: 3749669.1/35

In: 5443.011 $\pm$ 0.930 χ^2 /NDF: 7213362.5/35

Out: 5577.699 $\pm$ 0.932 χ^2 /NDF: 6177418.3/38

All: 5510.206 $\pm$ 0.659 χ^2 /NDF: 13401235.0/71

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 3.275 ± 8.229 χ^2/NDF : 26.0/19

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: 3.173 ± 5.919 χ^2/NDF : 38.8/38

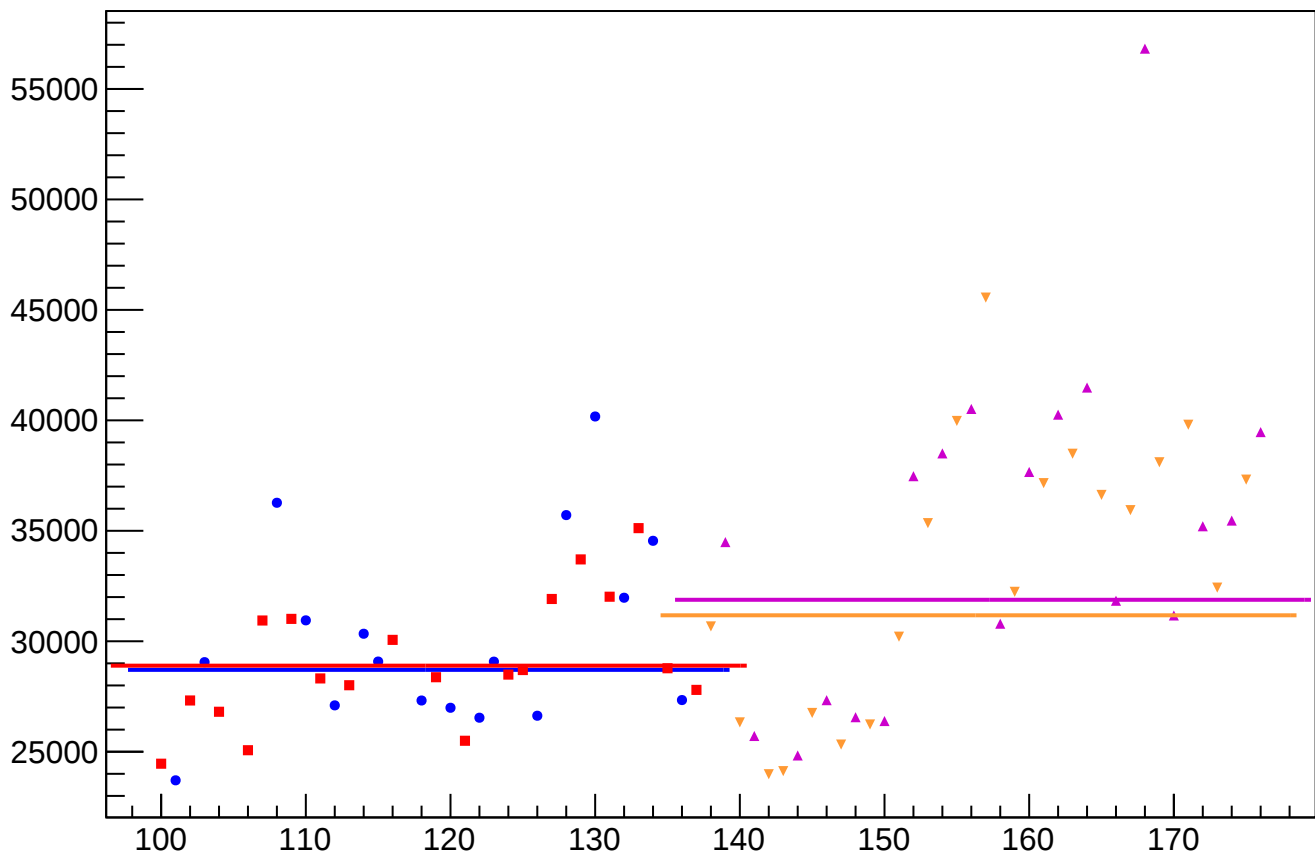
Right: -12.370 ± 7.810 χ^2/NDF : 35.4/35

In: -3.827 ± 6.783 χ^2/NDF : 30.5/35

Out: -1.253 ± 6.565 χ^2/NDF : 46.1/38

All: -2.498 ± 4.717 χ^2/NDF : 76.7/74

diff_bpm12X_rms vs Slug, Sign Corrected



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

Left Out: 31175.454+/-5.819 χ^2/NDF : 995403.2/19

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: 31514.359+/-4.185 χ^2/NDF : 2154874.0/38

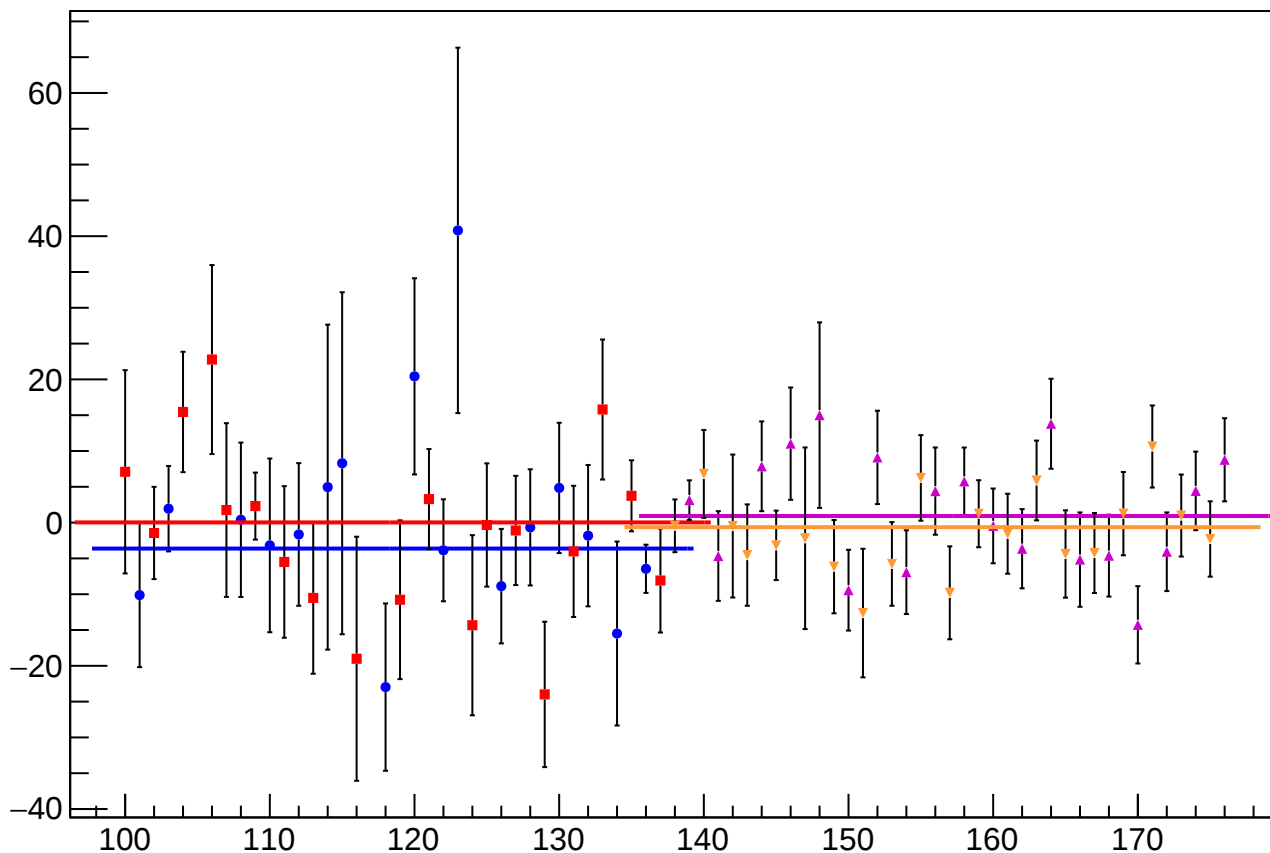
Right: 28803.288+/-5.522 χ^2/NDF : 362500.7/35

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

Out: 30346.683+/-4.642 χ^2/NDF : 1162420.7/38

All: 30525.272+/-3.336 χ^2/NDF : 2670451.1/7

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -0.633 ± 1.300 χ^2/NDF : 15.2/19

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: 0.174 ± 0.902 χ^2/NDF : 47.3/38

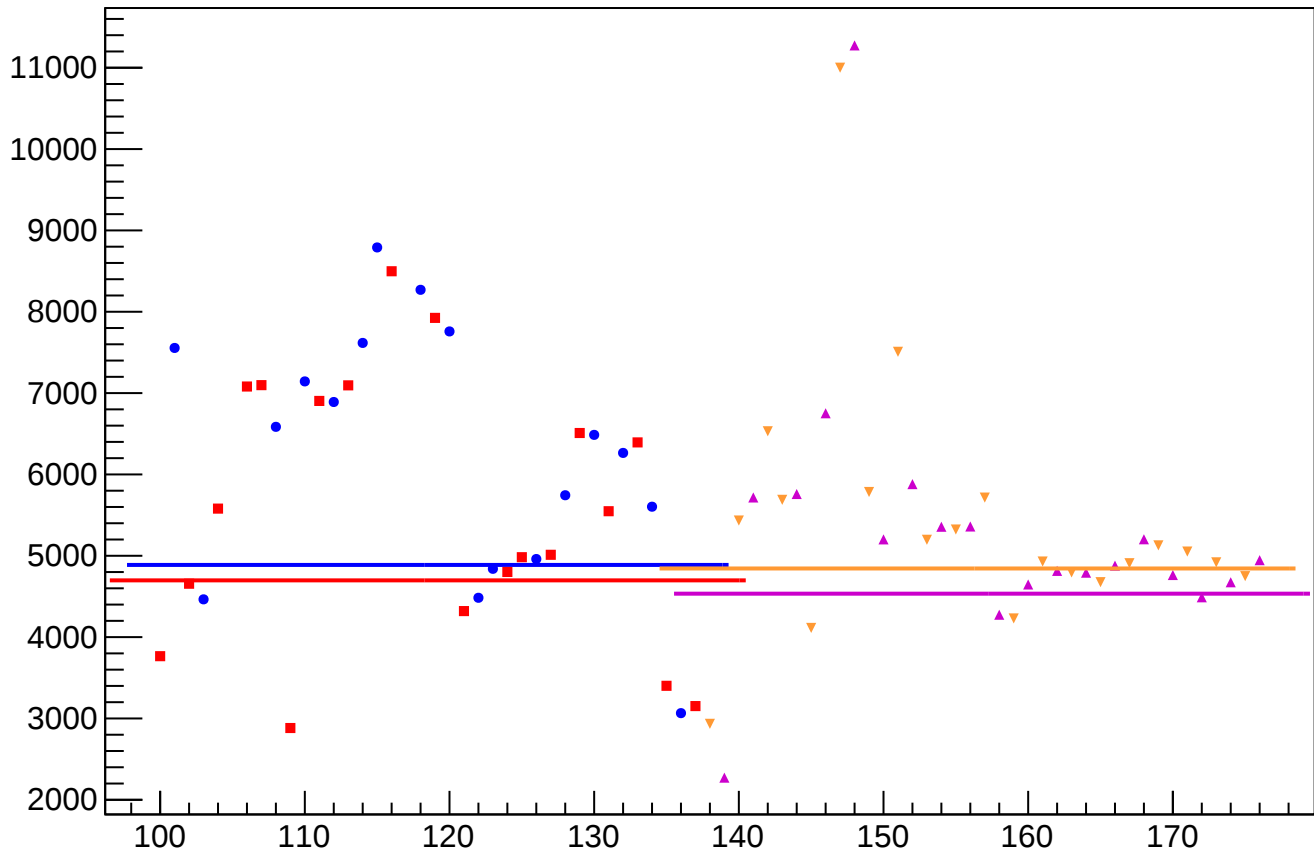
Right: -1.690 ± 1.376 χ^2/NDF : 37.6/35

In: -0.352 ± 1.062 χ^2/NDF : 48.8/35

Out: -0.421 ± 1.071 χ^2/NDF : 37.3/38

All: -0.386 ± 0.754 χ^2/NDF : 86.1/74

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4843.834 ± 0.919 $\chi^2/\text{NDF}: 1477487.0/19$

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

Left In: 4534.056 ± 0.885 $\chi^2/\text{NDF}: 2444025.9/18$

Left: 4683.004 ± 0.638 $\chi^2/\text{NDF}: 3980453.3/38$

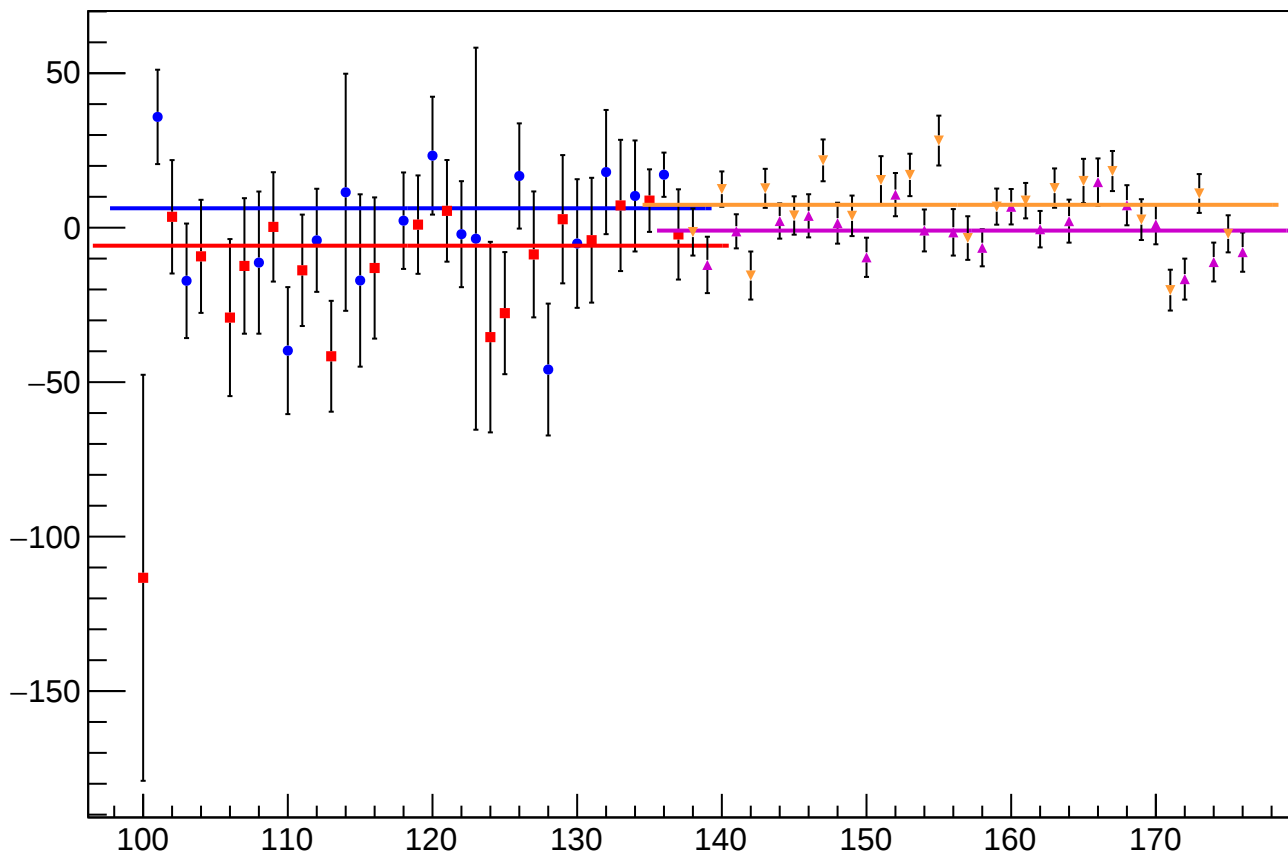
Right: 4786.972 ± 0.973 $\chi^2/\text{NDF}: 2731901.7/35$

In: 4633.060 ± 0.751 $\chi^2/\text{NDF}: 3898023.6/35$

Out: 4796.897 ± 0.757 $\chi^2/\text{NDF}: 2798721.1/38$

All: 4714.246 ± 0.533 $\chi^2/\text{NDF}: 6720346.7/74$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 ± 4.064 χ^2/NDF : 22.5/16

Left Out: 7.406 ± 1.474 χ^2/NDF : 54.2/19

Right Out: -5.828 ± 4.219 χ^2/NDF : 13.8/18

Left In: -0.937 ± 1.493 χ^2/NDF : 25.2/18

Left: 3.288 ± 1.049 χ^2/NDF : 95.2/38

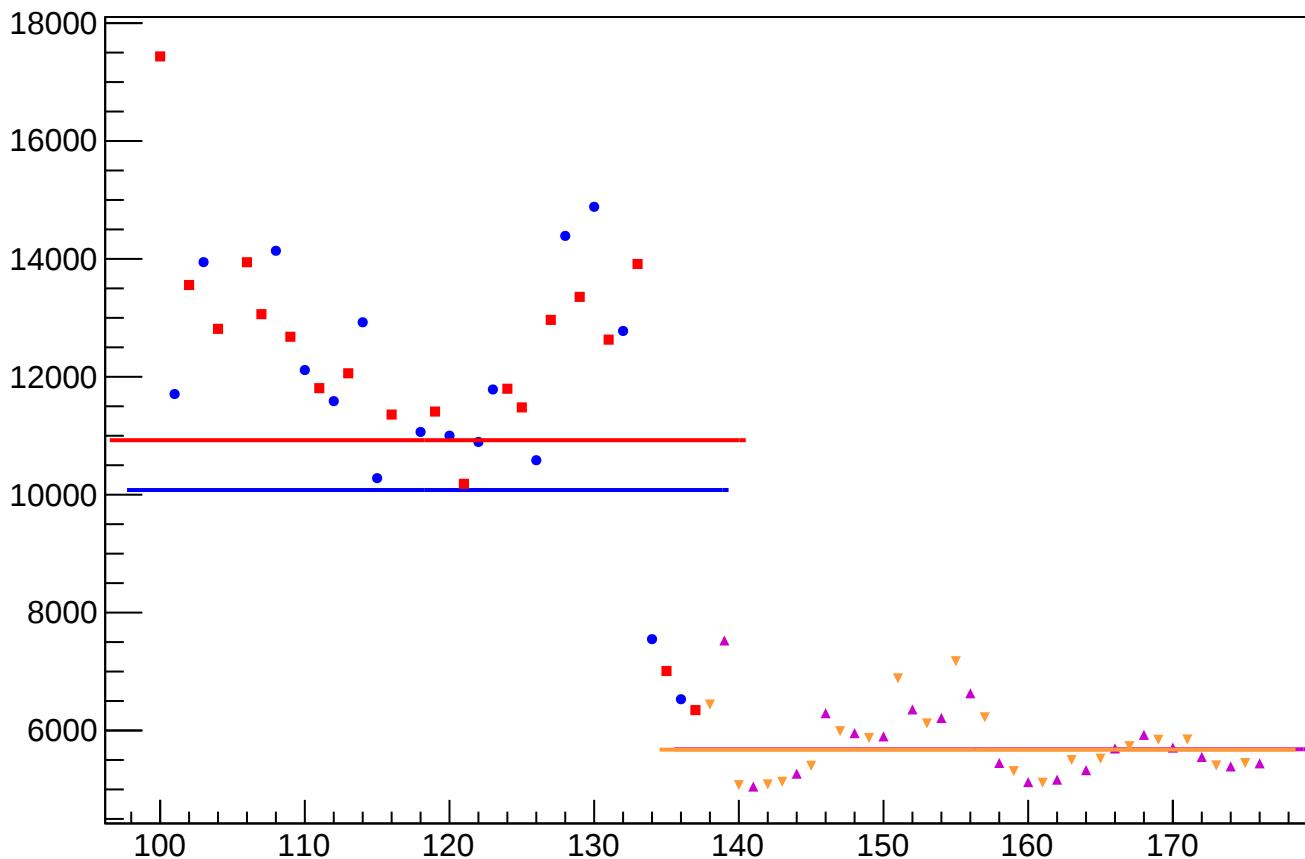
Right: 0.454 ± 2.927 χ^2/NDF : 40.6/35

In: -0.078 ± 1.402 χ^2/NDF : 50.5/35

Out: 5.966 ± 1.391 χ^2/NDF : 76.8/38

All: 2.966 ± 0.987 χ^2/NDF : 136.7/74

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5675.910 $\pm$ 1.042 χ^2 /NDF:255942.2/19

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: 5678.804 $\pm$ 0.742 χ^2 /NDF: 511412.3/38

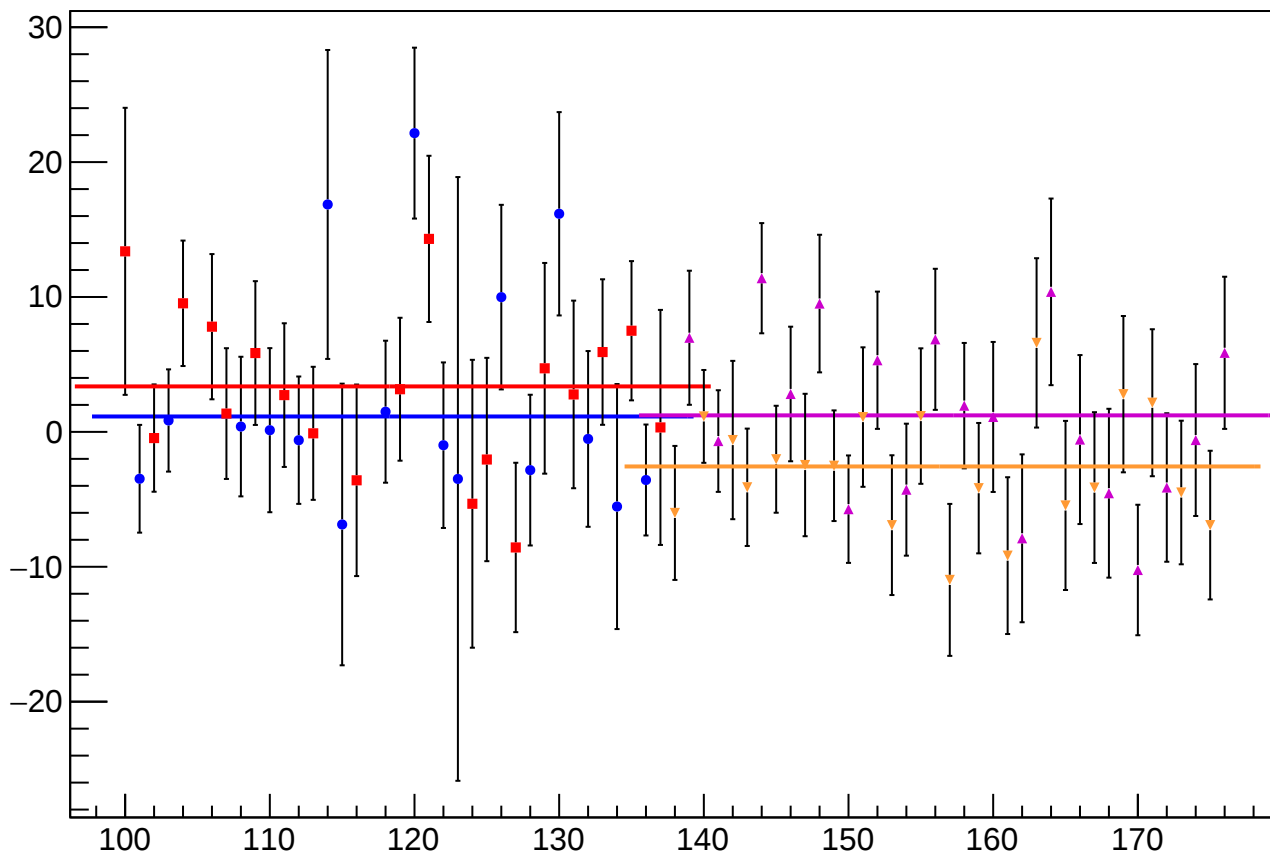
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

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

Out: 6246.808 $\pm$ 0.984 χ^2 /NDF:3782900.3/38

All: 6225.971 $\pm$ 0.698 χ^2 /NDF: 7097175.1/74

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.563 ± 1.119 $\chi^2/\text{NDF}: 12.1/19$

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: -0.736 ± 0.805 $\chi^2/\text{NDF}: 46.5/38$

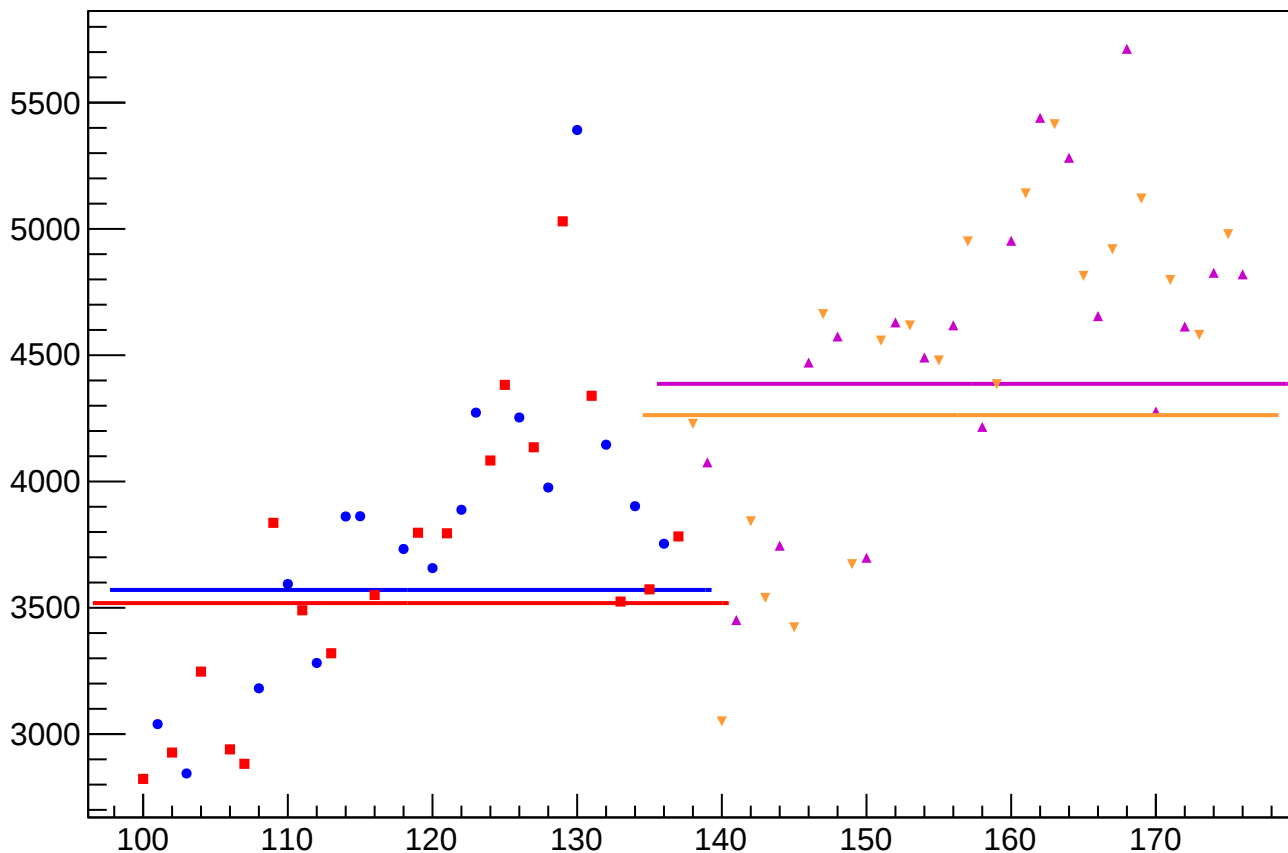
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

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

Out: -0.110 ± 0.857 $\chi^2/\text{NDF}: 38.8/38$

All: 0.515 ± 0.618 $\chi^2/\text{NDF}: 92.0/74$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4262.734 $\pm$ 0.791 χ^2 /NDF: 767410.7/19

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: 4322.501 $\pm$ 0.569 χ^2 /NDF: 1268063.0/38

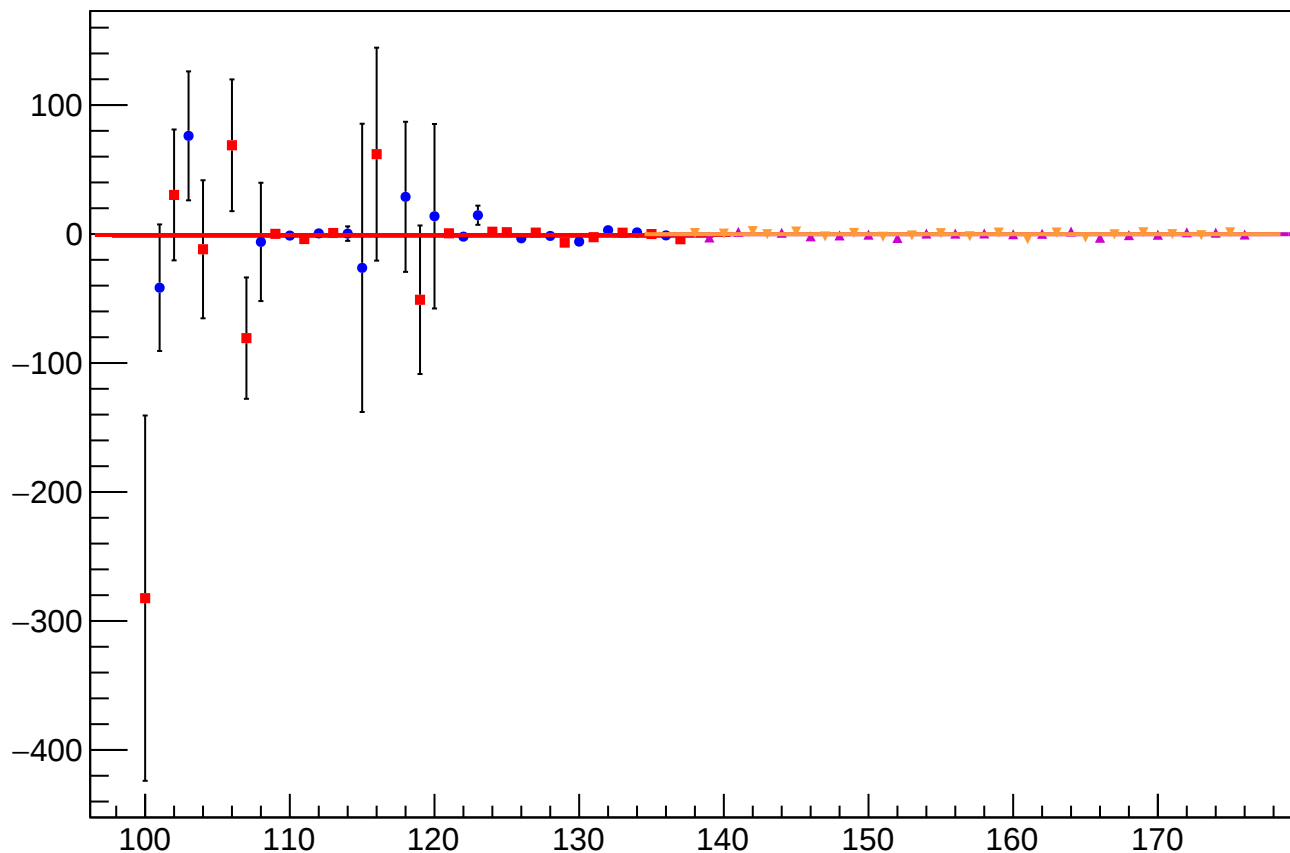
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

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

Out: 3955.158 $\pm$ 0.606 χ^2 /NDF: 1426177.0/38

All: 4002.402 $\pm$ 0.437 χ^2 /NDF: 2641943.7/74

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.110 ± 0.273 χ^2/NDF : 33.7/19

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: -0.125 ± 0.194 χ^2/NDF : 58.7/38

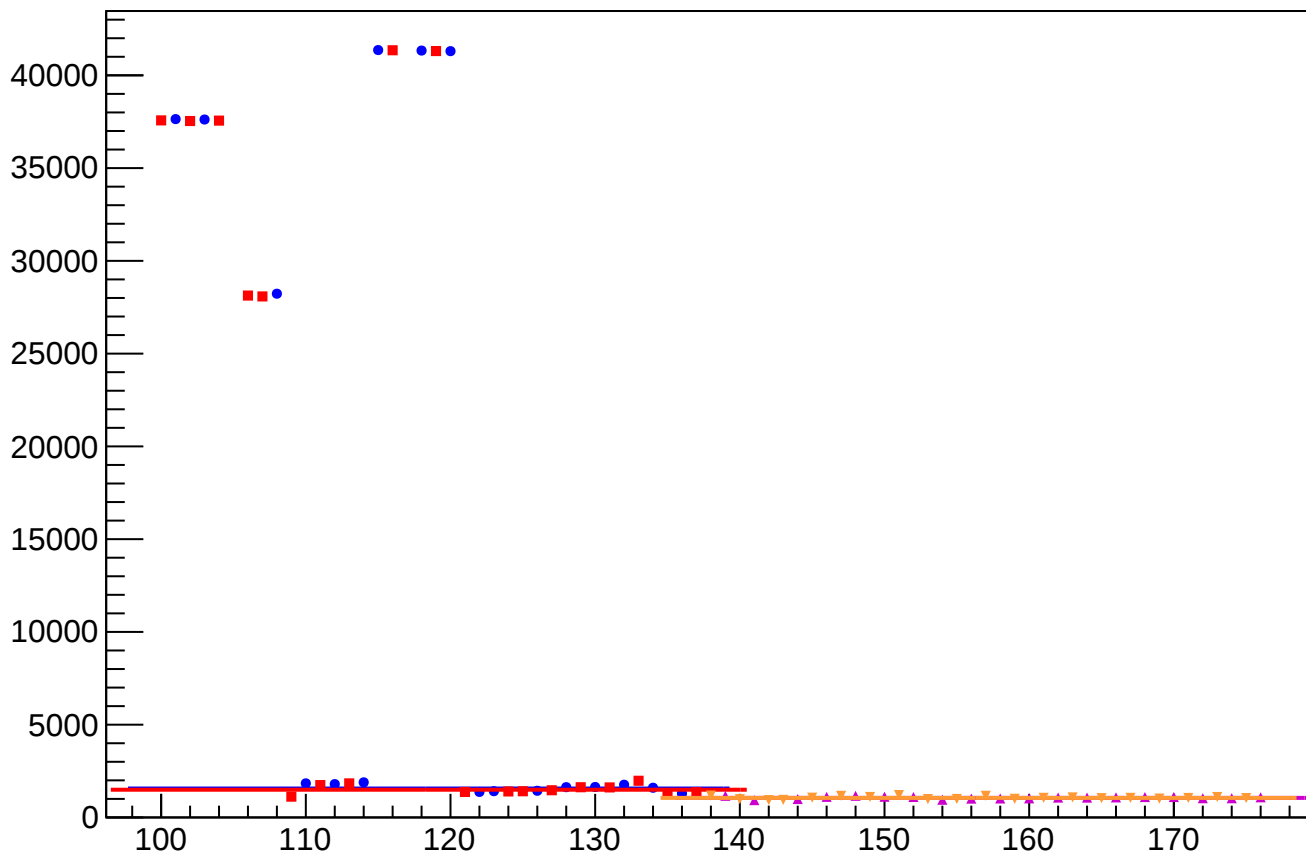
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.275 ± 0.259 χ^2/NDF : 43.2/35

Out: -0.190 ± 0.255 χ^2/NDF : 56.4/38

All: -0.232 ± 0.182 χ^2/NDF : 99.7/74

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1053.684 $\pm$ 0.193 χ^2/NDF : 134722.3/19

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

Left In: 1054.291 $\pm$ 0.195 χ^2/NDF : 107074.9/18

Left: 1053.983 $\pm$ 0.137 χ^2/NDF : 241802.1/38

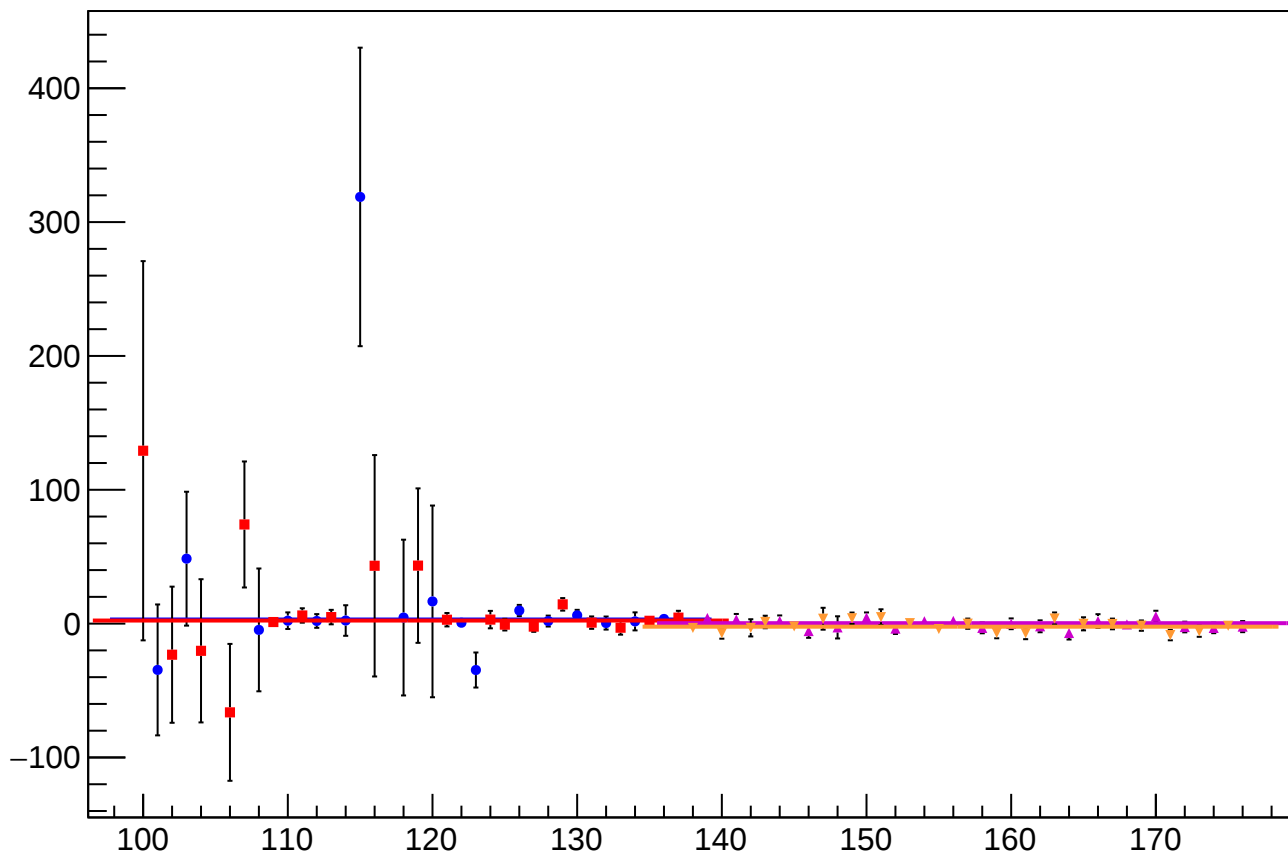
Right: 1525.146 $\pm$ 0.364 χ^2/NDF : 9654379.4/35

In: 1114.941 $\pm$ 0.183 χ^2/NDF : 5662147.7/35

Out: 1110.342 $\pm$ 0.180 χ^2/NDF : 5699340.2/38

All: 1112.600 $\pm$ 0.128 χ^2/NDF : 11361808.2/77

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -2.288 ± 0.894 $\chi^2/\text{NDF}: 15.7/19$

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: -1.006 ± 0.638 $\chi^2/\text{NDF}: 33.9/38$

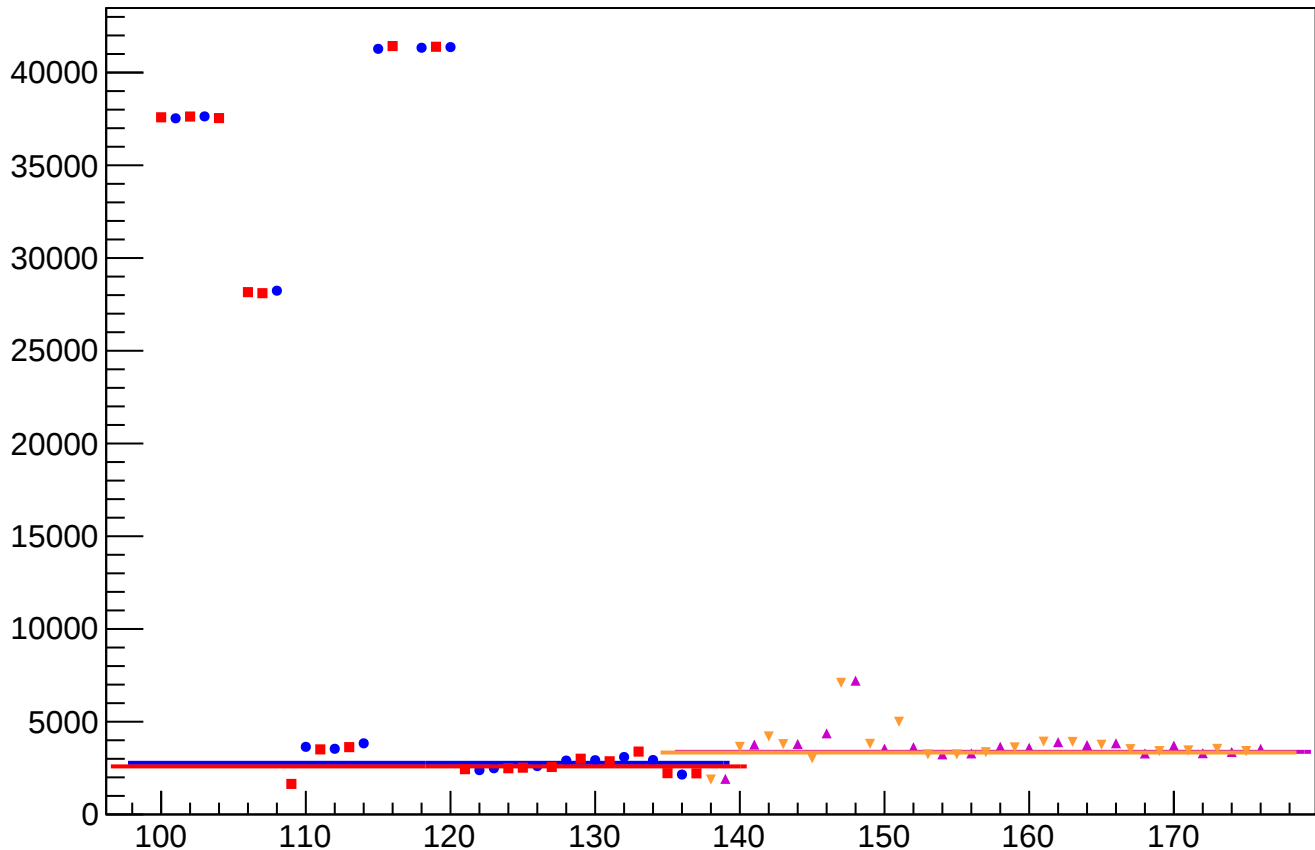
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

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

Out: -0.708 ± 0.724 $\chi^2/\text{NDF}: 41.7/38$

All: 0.218 ± 0.521 $\chi^2/\text{NDF}: 83.9/74$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3339.029+/-0.632 χ^2/NDF : 1626427.2/19

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

Left In: 3376.358+/-0.645 χ^2/NDF : 1406909.6/18

Left: 3357.318+/-0.451 χ^2/NDF : 3035046.2/38

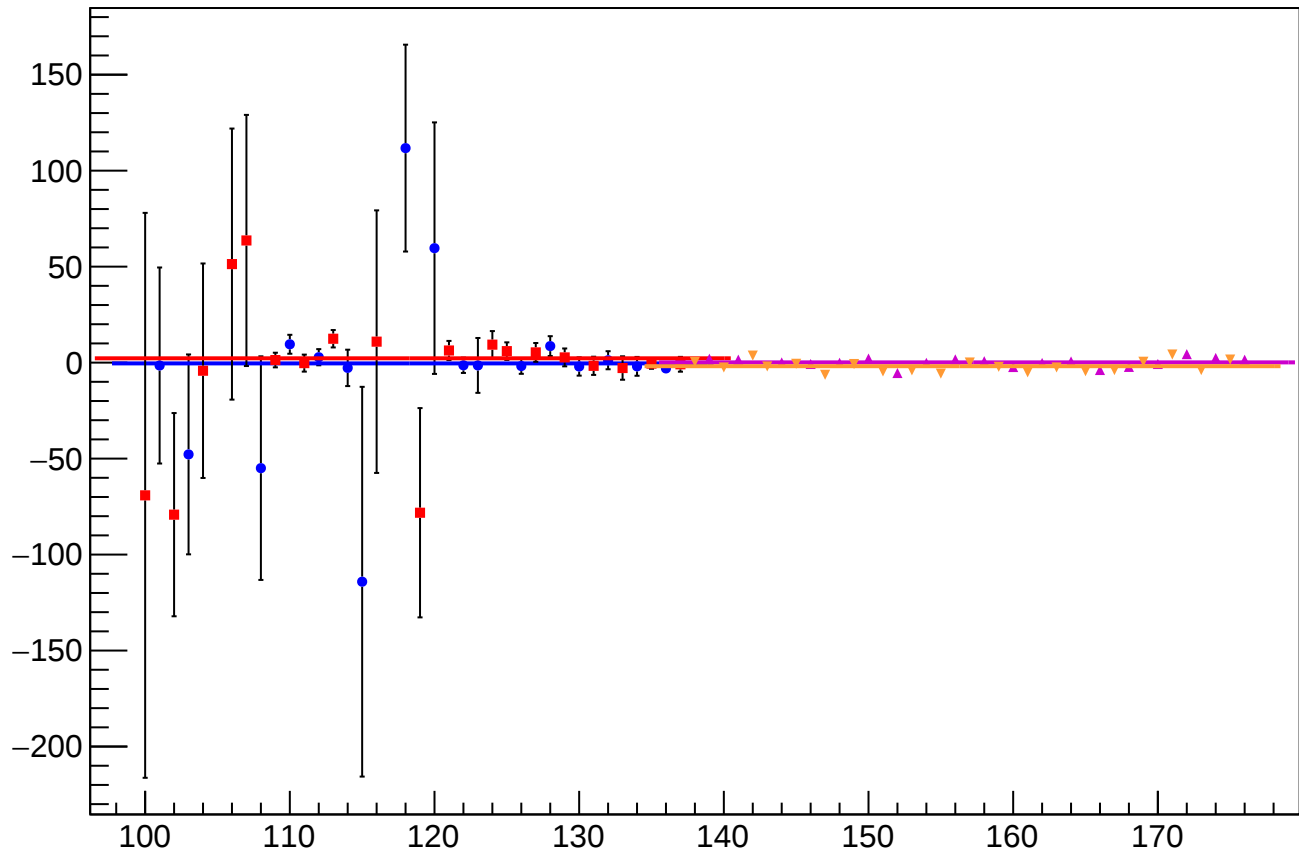
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3185.617+/-0.531 χ^2/NDF : 6256091.5/35

Out: 3081.848+/-0.512 χ^2/NDF : 6954716.6/38

All: 3131.840+/-0.369 χ^2/NDF : 13230604.2/77

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.862 ± 0.431 χ^2/NDF : 42.4/19

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: -0.881 ± 0.307 χ^2/NDF : 77.7/38

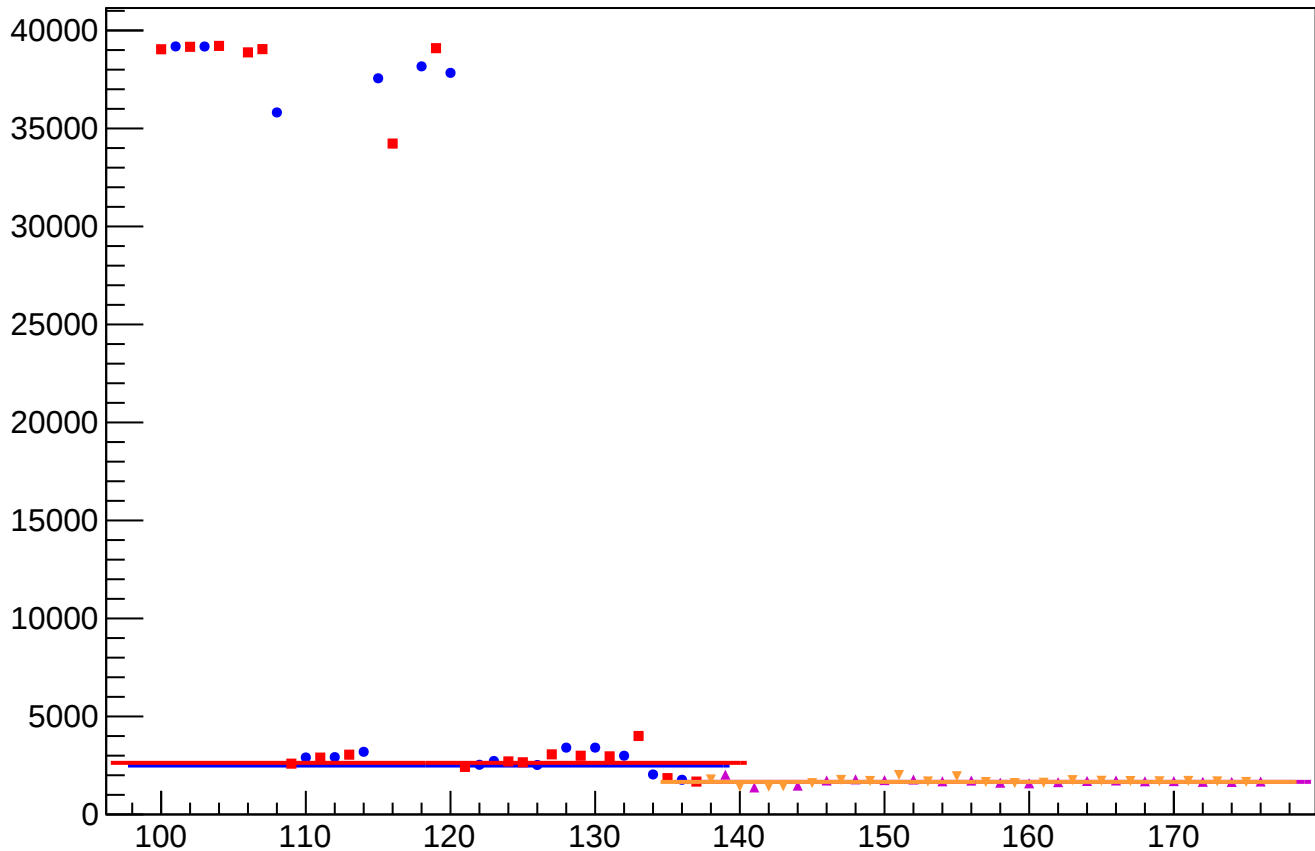
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: 0.067 ± 0.411 χ^2/NDF : 43.2/35

Out: -1.424 ± 0.407 χ^2/NDF : 69.6/38

All: -0.686 ± 0.289 χ^2/NDF : 119.4/74

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1660.817 $\pm$ 0.305 χ^2 /NDF: 214837.5/19

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: 1662.086 $\pm$ 0.217 χ^2 /NDF: 393250.5/38

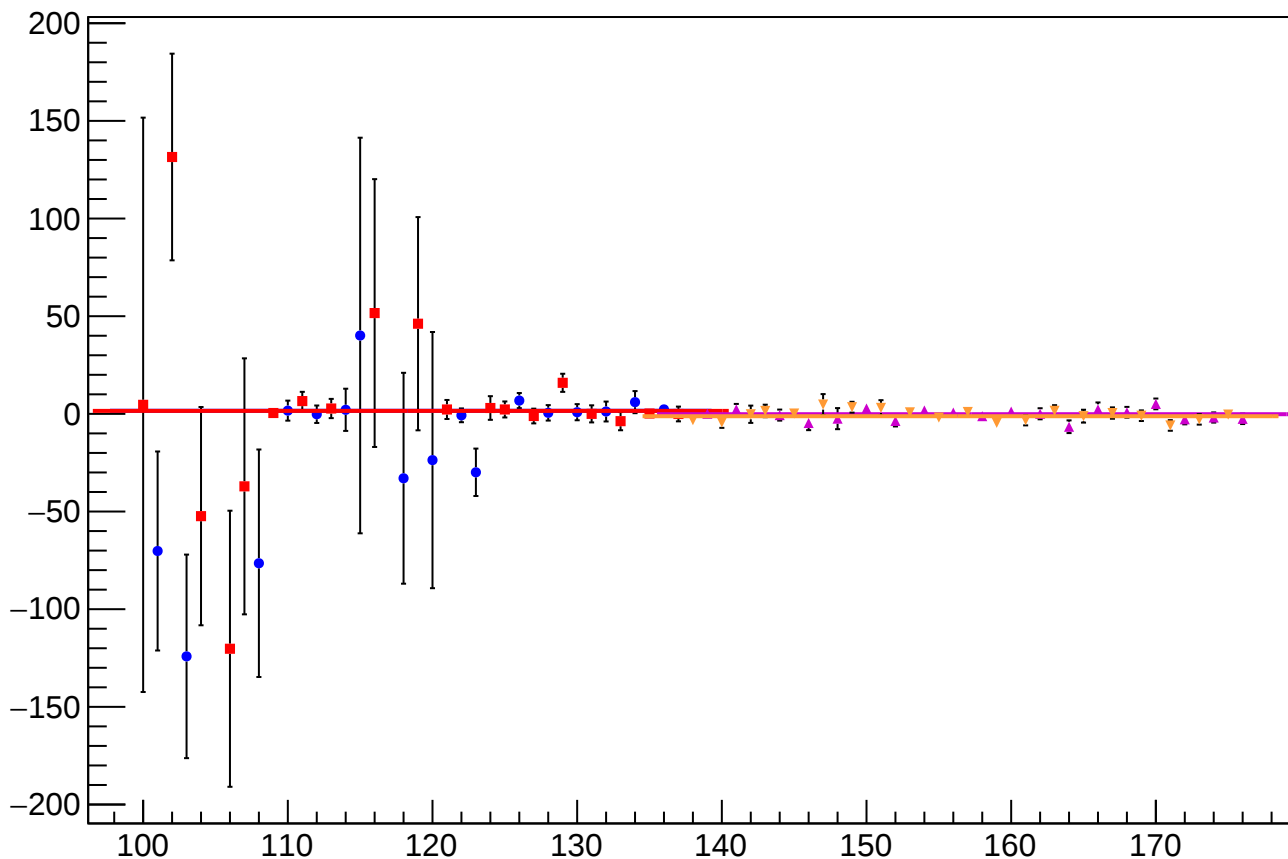
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

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

Out: 1764.609 $\pm$ 0.288 χ^2 /NDF: 6163635.5/38

All: 1761.430 $\pm$ 0.205 χ^2 /NDF: 12052160.5/7

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.206 ± 0.591 $\chi^2/\text{NDF}: 18.5/19$

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

Left In: -0.176 ± 0.586 $\chi^2/\text{NDF}: 17.1/18$

Left: -0.686 ± 0.416 $\chi^2/\text{NDF}: 37.1/38$

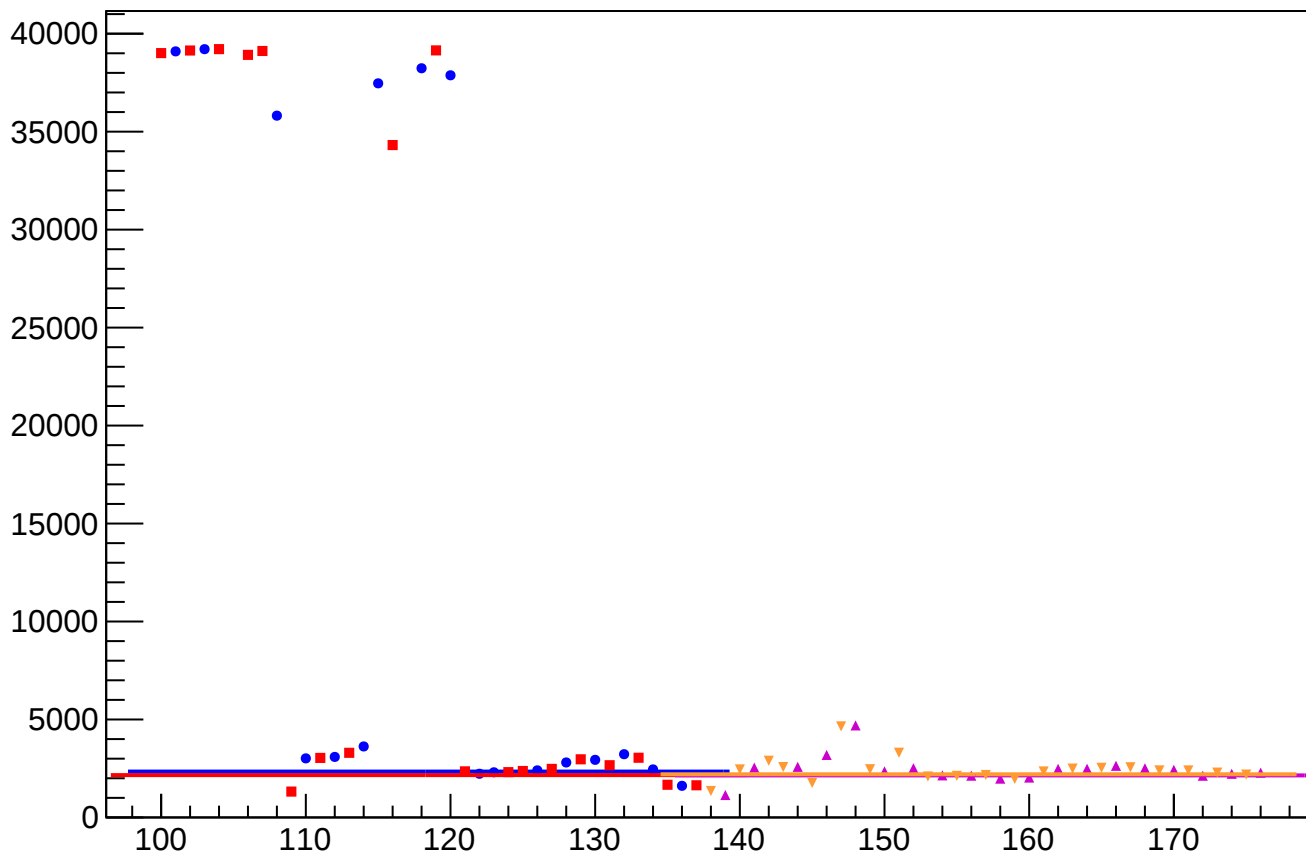
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.189 ± 0.522 $\chi^2/\text{NDF}: 39.3/35$

Out: -0.560 ± 0.517 $\chi^2/\text{NDF}: 48.5/38$

All: -0.189 ± 0.367 $\chi^2/\text{NDF}: 88.8/74$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2203.299+/-0.418 χ^2/NDF : 1404666.7/19

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: 2174.576+/-0.294 χ^2/NDF : 3366032.1/38

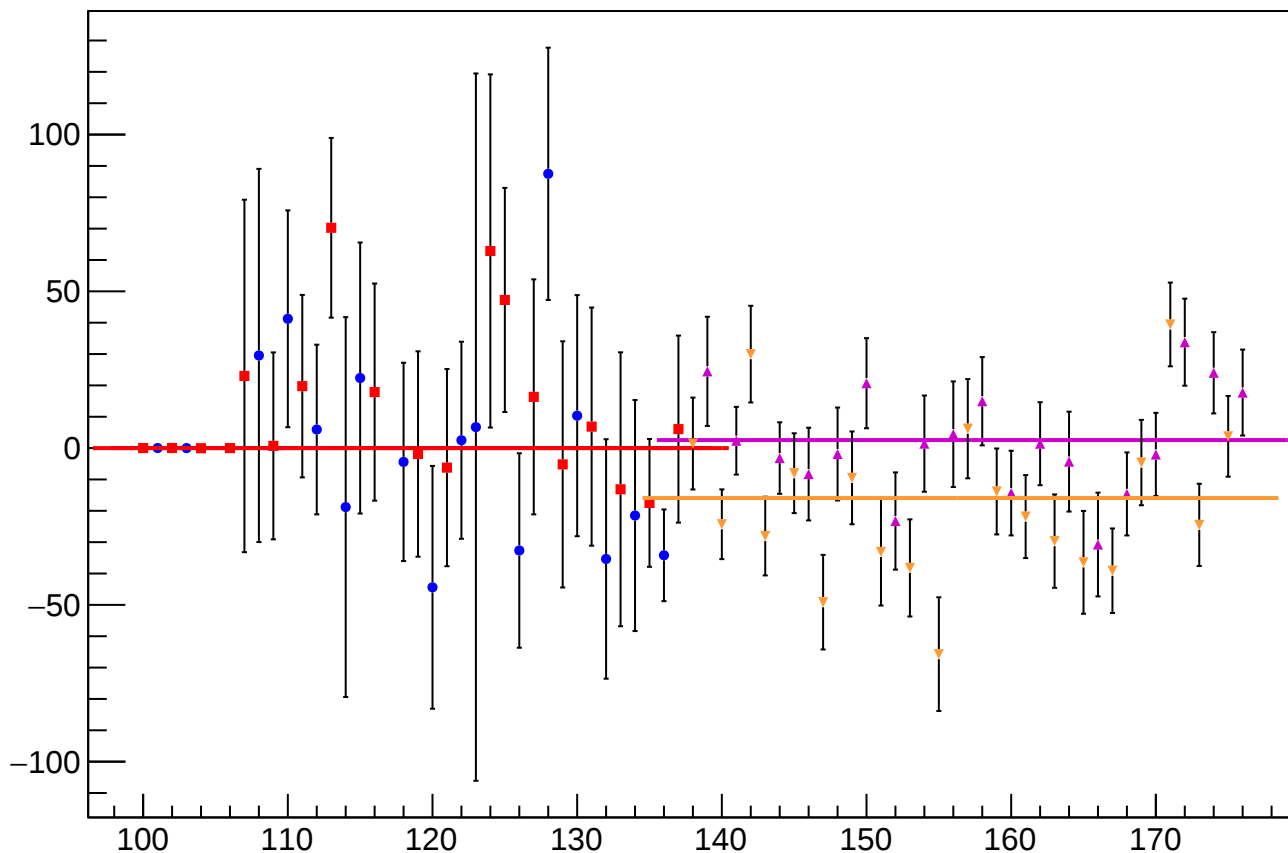
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

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

Out: 2193.333+/-0.365 χ^2/NDF : 6706120.0/38

All: 2190.153+/-0.260 χ^2/NDF : 13711134.0/77

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -15.931+/-3.152 χ^2/NDF :56.0/19

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

Left In: 2.559+/-3.209 χ^2/NDF :24.3/18

Left: -6.851+/-2.249 χ^2/NDF : 97.2/38

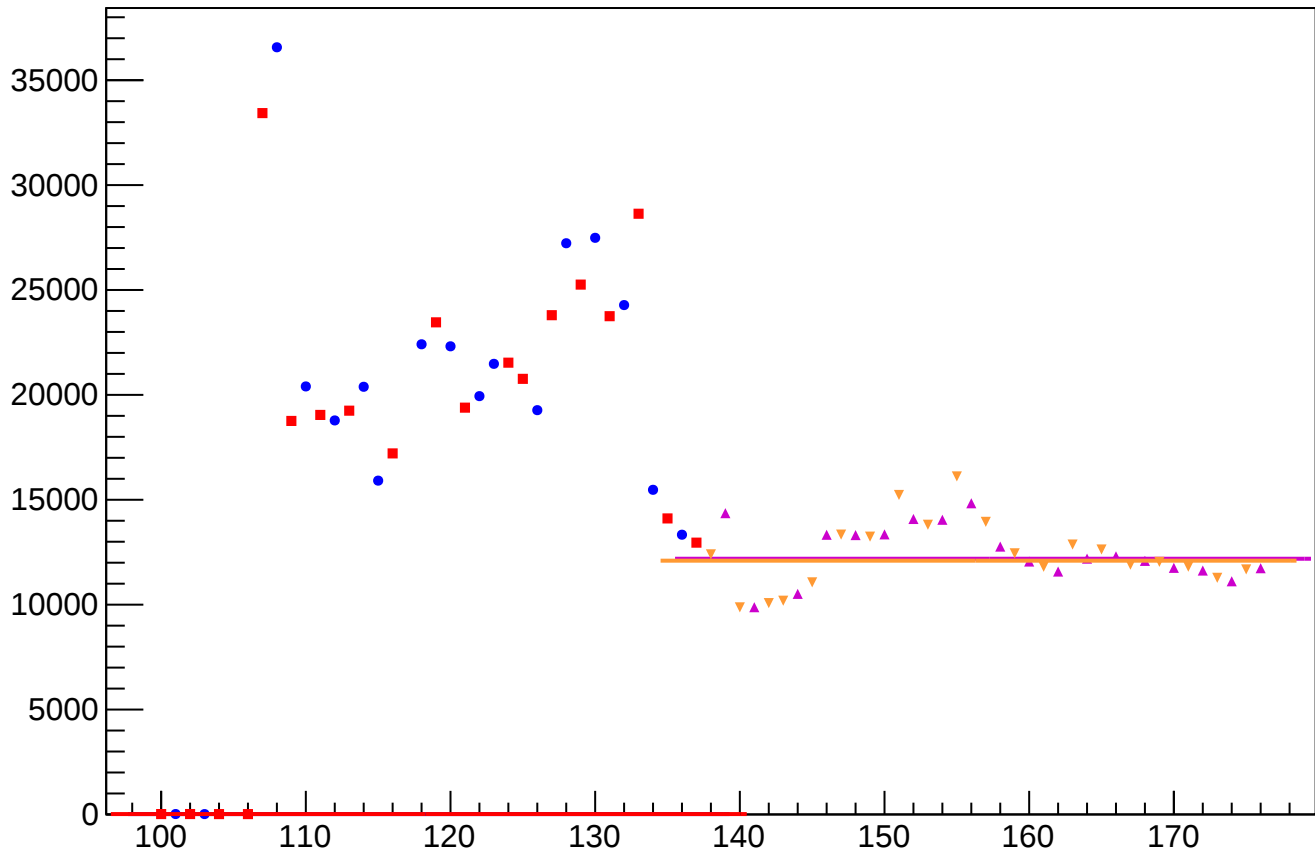
Right: 0.004+/-0.012 χ^2/NDF : 32.5/35

In: 0.013+/-0.017 χ^2/NDF :41.0/35

Out: -0.004+/-0.016 χ^2/NDF :97.4/38

All: 0.004+/-0.012 χ^2/NDF : 139.0/74

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 12096.793 $\pm$ 2.229 χ^2 /NDF:438166.5/19

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: 12142.148 $\pm$ 1.590 χ^2 /NDF: 779116.4/38

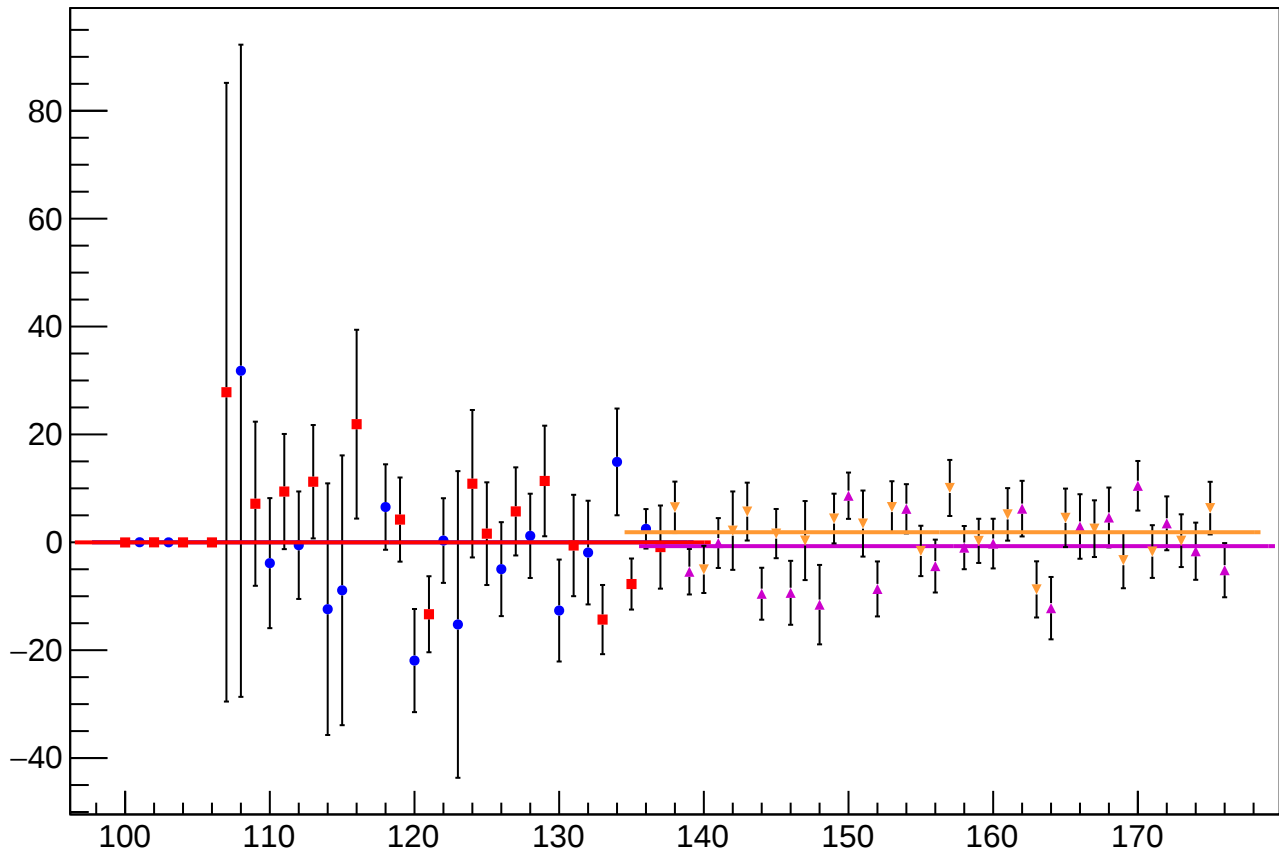
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

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

Out: 18.625 $\pm$ 0.011 χ^2 /NDF:40918101.2/38

All: 18.797 $\pm$ 0.008 χ^2 /NDF: 81016263.8/74

diff_cav4bY_mean vs Slug, Sign Corrected



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

Left Out: 1.868 ± 1.126 $\chi^2/\text{NDF}: 15.8/19$

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: 0.589 ± 0.800 $\chi^2/\text{NDF}: 51.9/38$

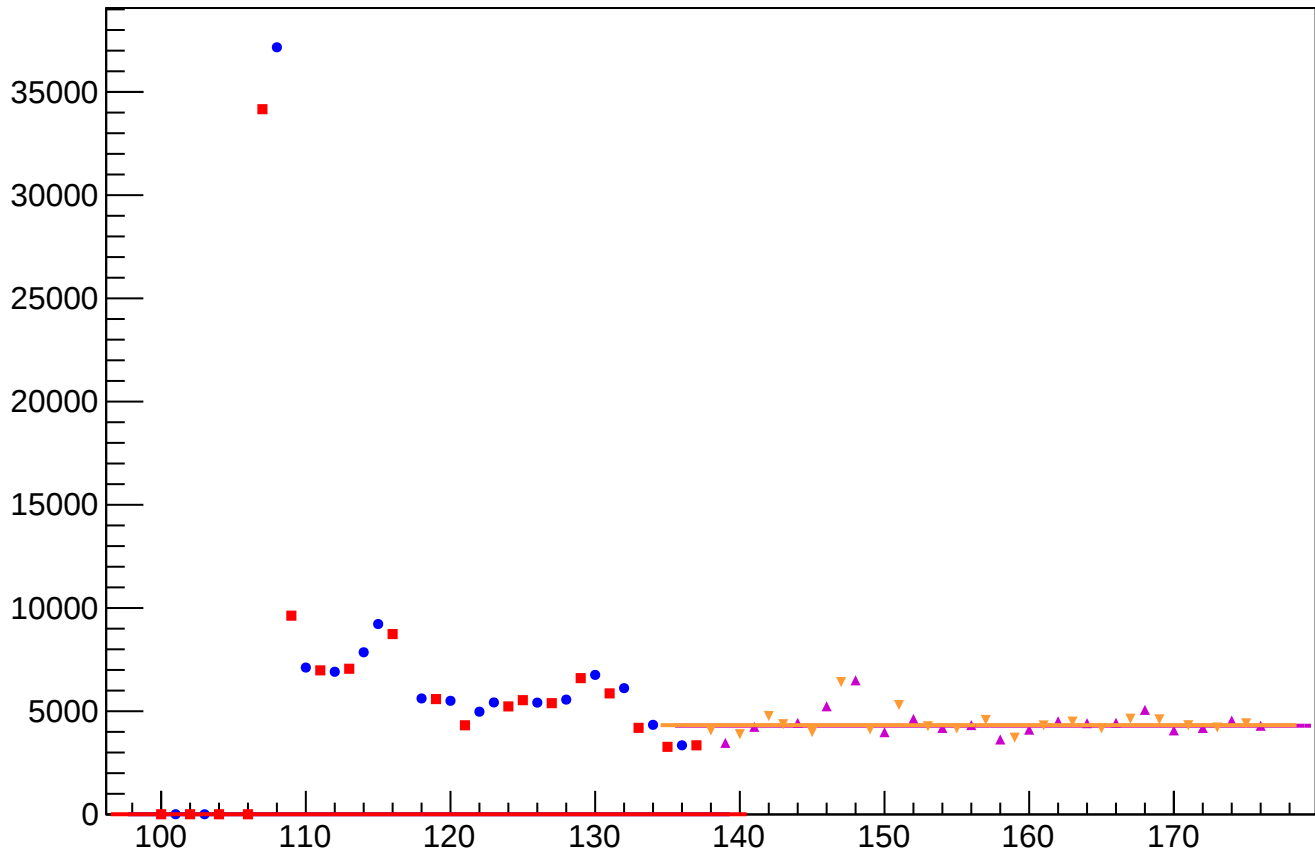
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

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

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 37.2/38$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 85.5/74$

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4325.392 $\pm$ 0.796 χ^2 /NDF:330157.3/19

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

Left In: 4298.612 $\pm$ 0.803 χ^2 /NDF:441350.6/18

Left: 4312.113 $\pm$ 0.565 χ^2 /NDF: 772068.8/38

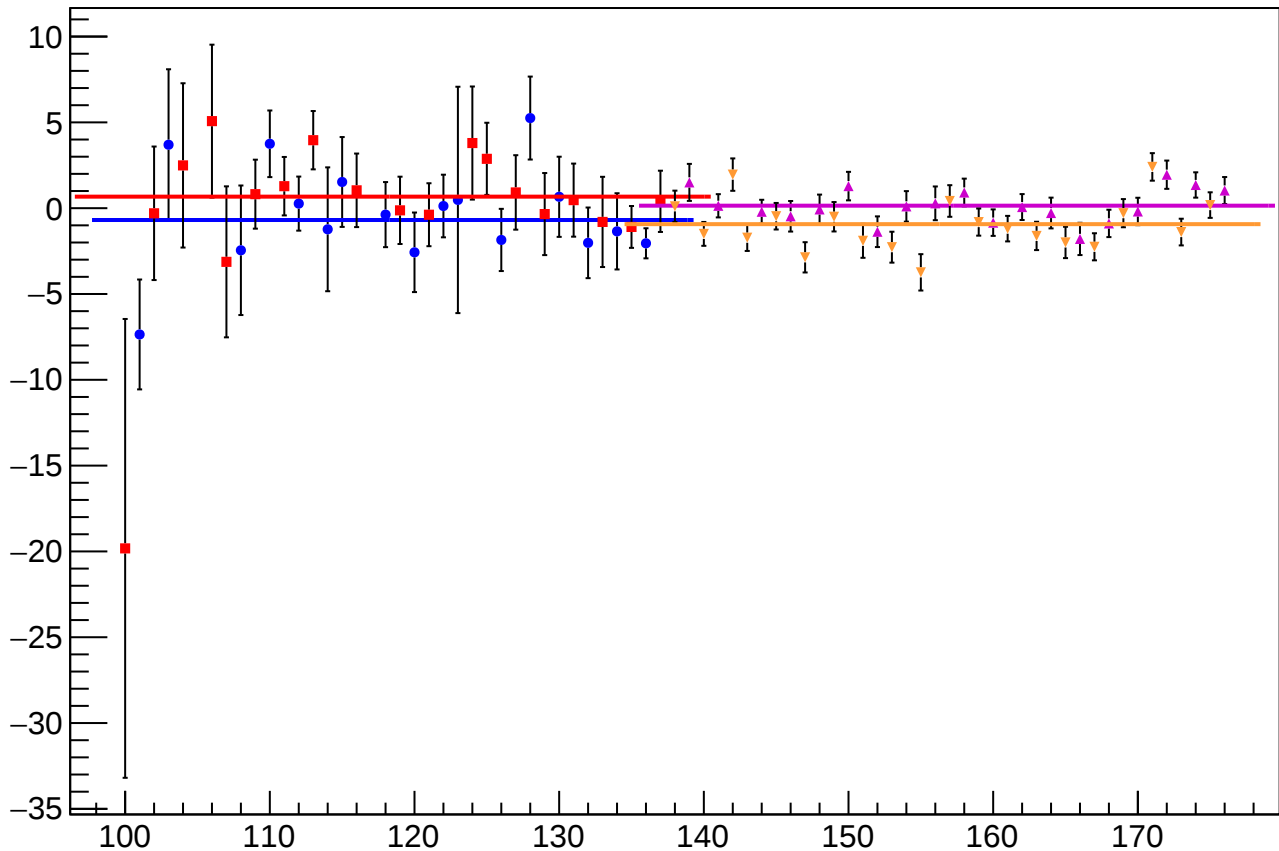
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22274609.0/35

In: 10.221 $\pm$ 0.007 χ^2 /NDF:40083577.4/35

Out: 10.109 $\pm$ 0.006 χ^2 /NDF:40859788.4/38

All: 10.161 $\pm$ 0.004 χ^2 /NDF: 80943522.1/74

diff_cav4cX_mean vs Slug, Sign Corrected



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

Left Out: -0.931 ± 0.186 χ^2/NDF : 55.6/19

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 ± 0.132 χ^2/NDF : 96.9/38

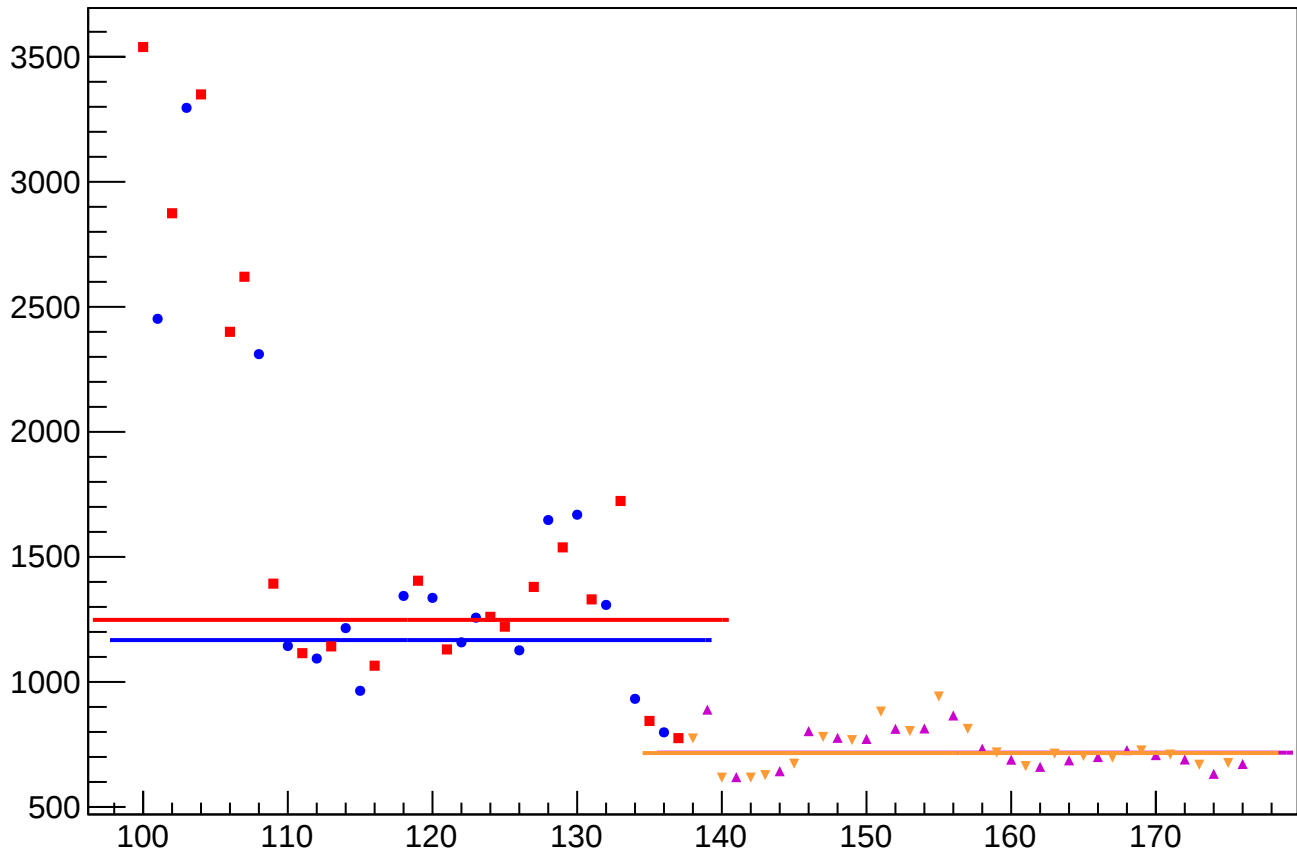
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: 0.035 ± 0.176 χ^2/NDF : 49.9/35

Out: -0.736 ± 0.174 χ^2/NDF : 77.9/38

All: -0.353 ± 0.124 χ^2/NDF : 137.5/74

diff_cav4cX_rms vs Slug, Sign Corrected



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

Left Out: 715.655 $\pm$ 0.132 χ^2 /NDF: 332819.0/19

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: 716.391 $\pm$ 0.094 χ^2 /NDF: 630784.9/38

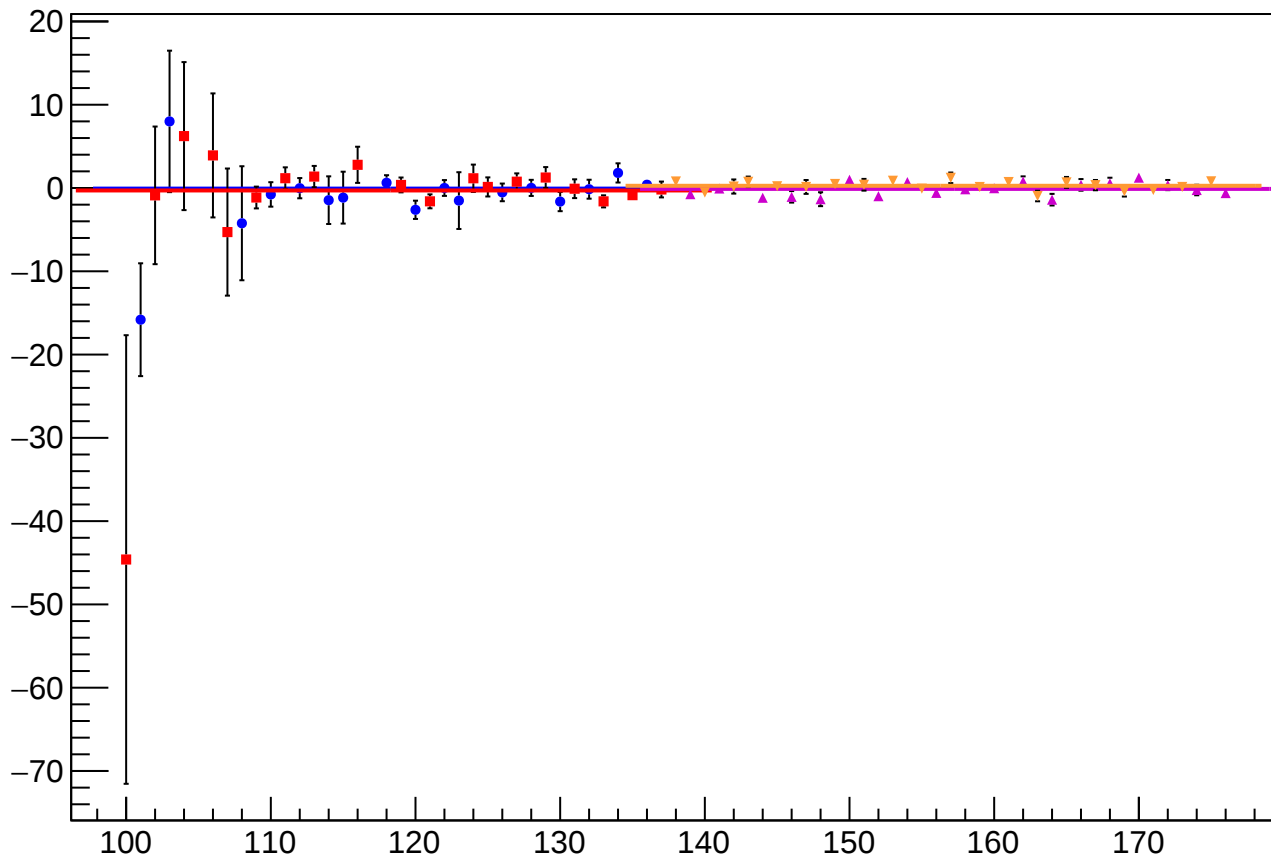
Right: 1206.306 $\pm$ 0.246 χ^2 /NDF: 3259405.5/35

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

Out: 780.288 $\pm$ 0.123 χ^2 /NDF: 3975253.3/38

All: 778.591 $\pm$ 0.088 χ^2 /NDF: 7363861.5/74

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.267 ± 0.135 χ^2/NDF : 15.4/19

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: 0.082 ± 0.096 χ^2/NDF : 52.2/38

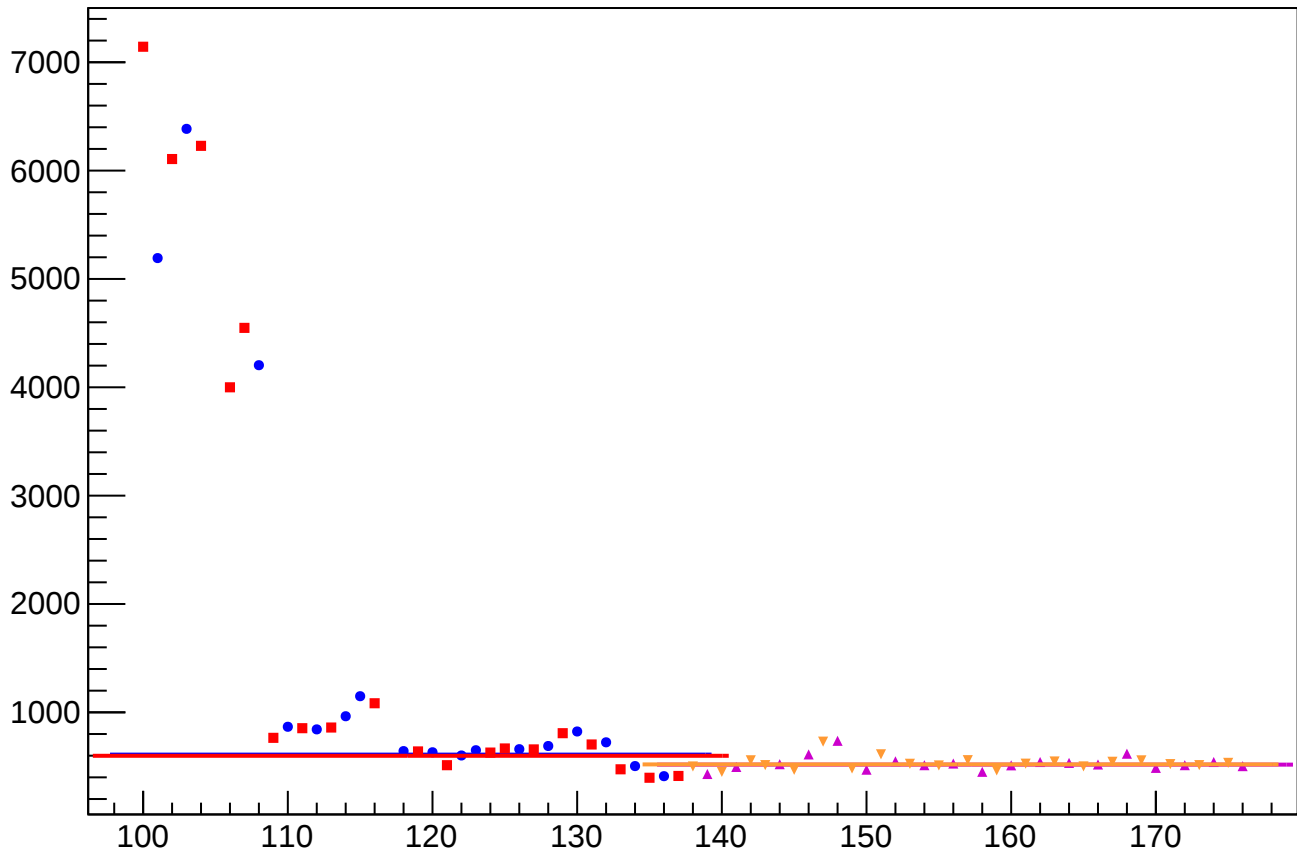
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.100 ± 0.122 χ^2/NDF : 52.2/35

Out: 0.150 ± 0.120 χ^2/NDF : 39.2/38

All: 0.027 ± 0.086 χ^2/NDF : 93.6/74

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 519.455+/-0.096 χ^2/NDF : 282283.4/19

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

Left In: 517.361+/-0.096 χ^2/NDF : 350967.2/18

Left: 518.418+/-0.068 χ^2/NDF : 633488.4/38

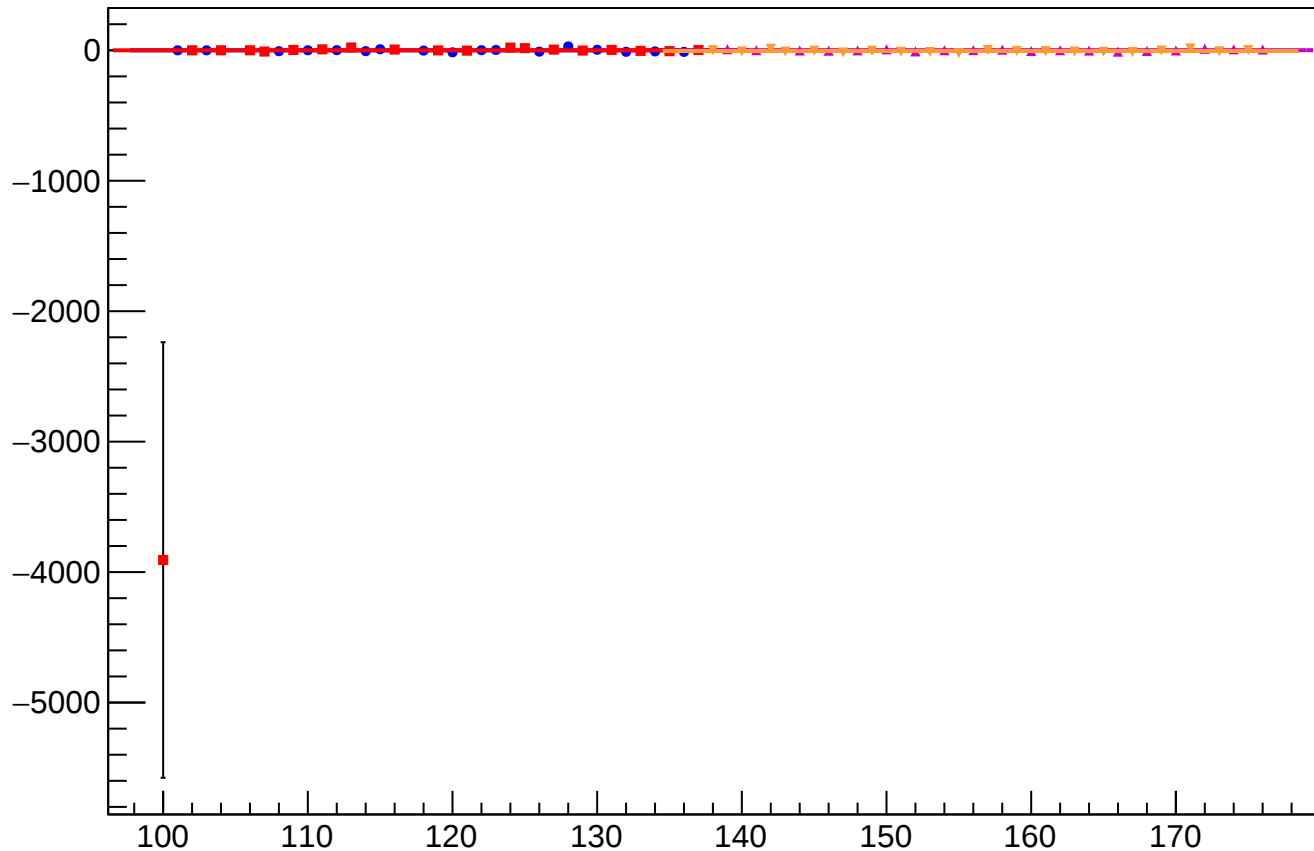
Right: 604.304+/-0.133 χ^2/NDF : 6689999.6/35

In: 536.312+/-0.086 χ^2/NDF : 3675195.9/35

Out: 535.973+/-0.085 χ^2/NDF : 3978708.4/38

All: 536.141+/-0.060 χ^2/NDF : 7653912.1/74

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -5.352+/-1.082 χ^2 /NDF: 55.6/19

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: -2.274+/-0.771 χ^2 /NDF: 97.0/38

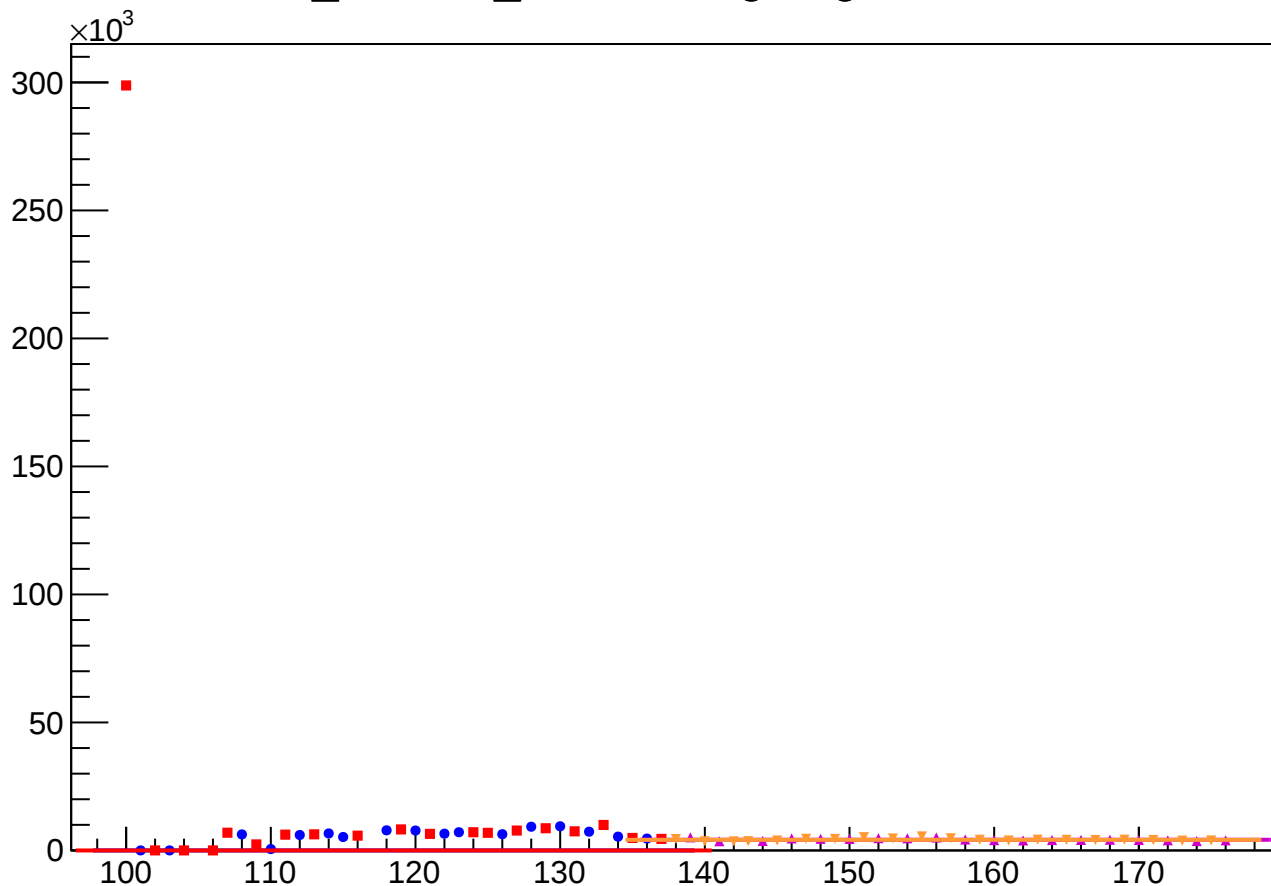
Right: 0.004+/-0.014 χ^2 /NDF: 36.4/35

In: -0.021+/-0.021 χ^2 /NDF: 41.3/35

Out: 0.025+/-0.020 χ^2 /NDF: 98.2/38

All: 0.003+/-0.014 χ^2 /NDF: 142.0/74

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4159.154 $\pm$ 0.765 χ^2/NDF : 356931.1/19

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

Left In: 4177.685 $\pm$ 0.777 χ^2/NDF : 307881.6/18

Left: 4168.275 $\pm$ 0.545 χ^2/NDF : 665101.5/38

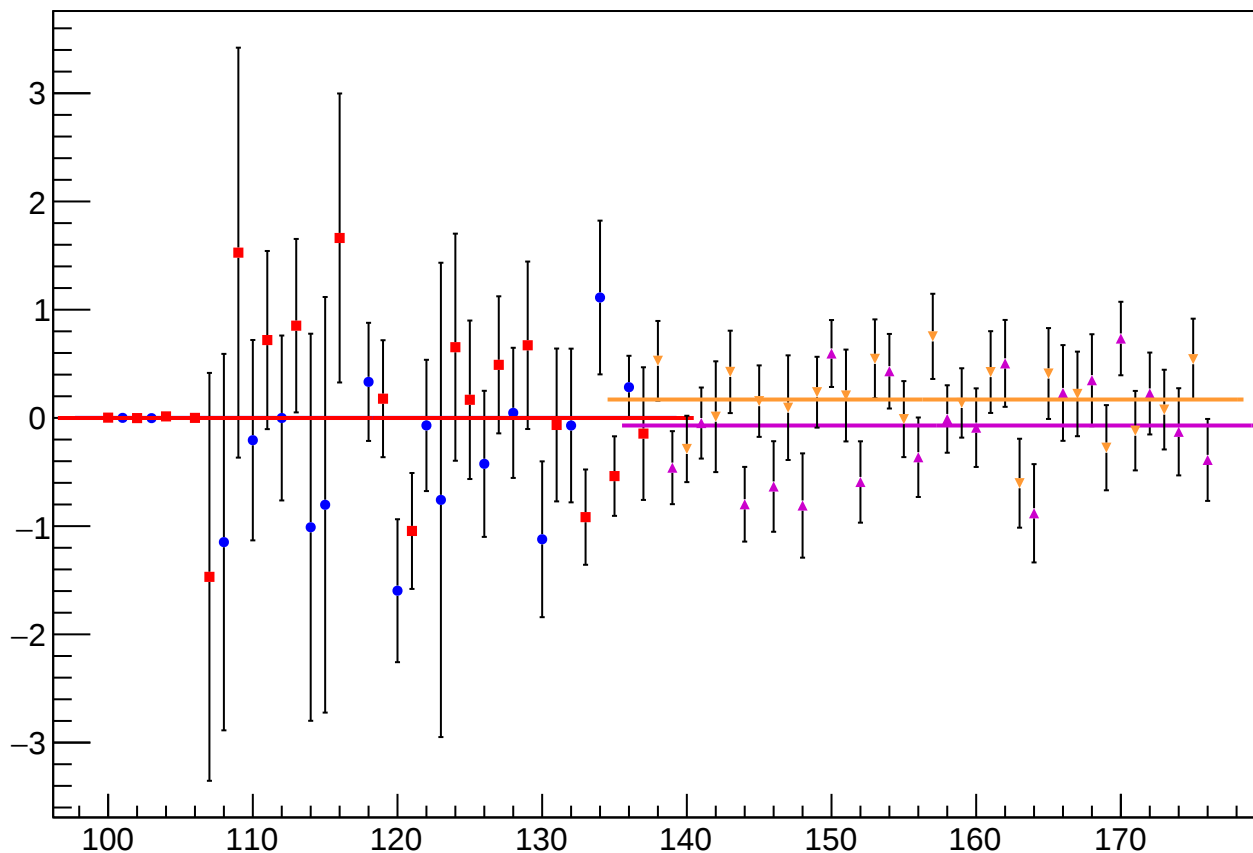
Right: 17.303 $\pm$ 0.010 χ^2/NDF : 21322069.2/35

In: 18.830 $\pm$ 0.015 χ^2/NDF : 39467424.5/35

Out: 18.652 $\pm$ 0.014 χ^2/NDF : 40481274.9/38

All: 18.737 $\pm$ 0.010 χ^2/NDF : 79948776.2/74

diff_cav4dY_mean vs Slug, Sign Corrected



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

Left Out: 0.170 ± 0.084 $\chi^2/\text{NDF}: 14.6/19$

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

Left In: -0.070 ± 0.085 $\chi^2/\text{NDF}: 32.9/18$

Left: 0.052 ± 0.060 $\chi^2/\text{NDF}: 51.6/38$

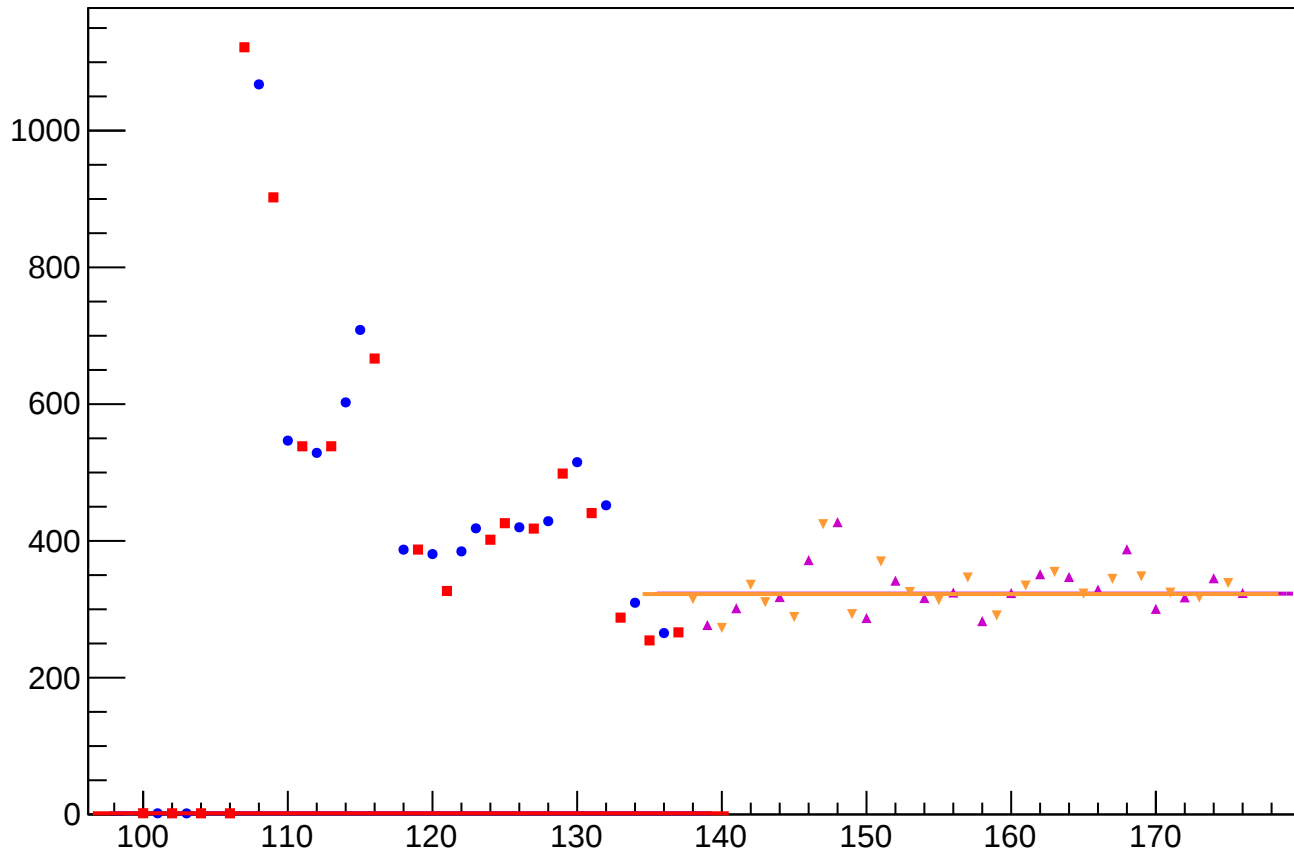
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 31.8/35$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 47.4/35$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 36.7/38$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 84.2/74$

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 ± 0.001 $\chi^2/\text{NDF}: 11053026.2/16$

Left Out: 322.280 ± 0.059 $\chi^2/\text{NDF}: 269615.5/19$

Right Out: 1.728 ± 0.001 $\chi^2/\text{NDF}: 10743910.0/18$

Left In: 322.898 ± 0.060 $\chi^2/\text{NDF}: 310998.2/18$

Left: 322.584 ± 0.042 $\chi^2/\text{NDF}: 580667.4/38$

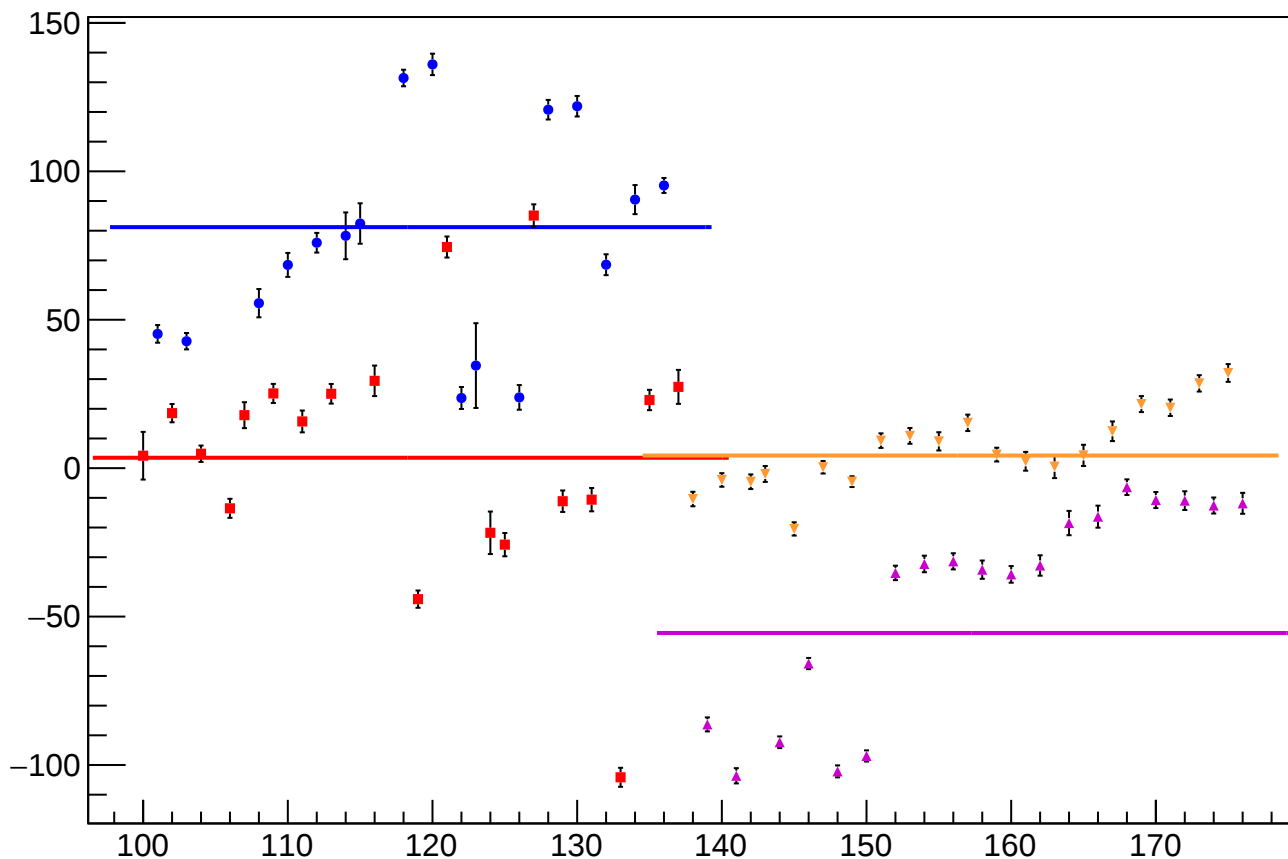
Right: 1.714 ± 0.001 $\chi^2/\text{NDF}: 21797153.2/35$

In: 1.881 ± 0.001 $\chi^2/\text{NDF}: 39868369.6/35$

Out: 1.900 ± 0.001 $\chi^2/\text{NDF}: 40269233.1/38$

All: 1.891 ± 0.001 $\chi^2/\text{NDF}: 80137692.5/74$

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.201 $\pm$ 0.886 χ^2 /NDF: 1709.8/16

Left Out: 4.256 $\pm$ 0.581 χ^2 /NDF: 491.4/19

Right Out: 3.508 $\pm$ 0.843 χ^2 /NDF: 2599.0/18

Left In: -55.528 $\pm$ 0.589 χ^2 /NDF: 3702.8/18

Left: -25.197 $\pm$ 0.413 χ^2 /NDF: 9419.6/38

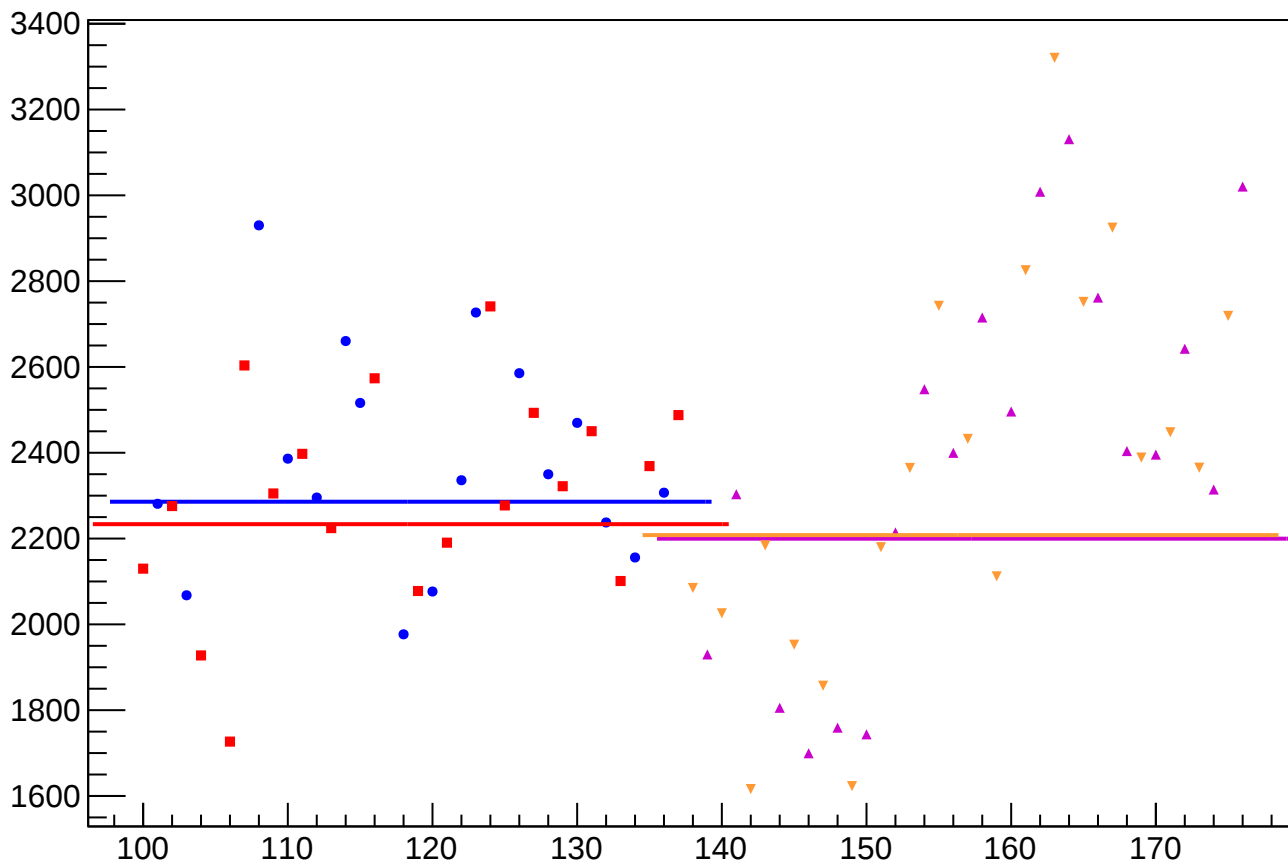
Right: 40.415 $\pm$ 0.610 χ^2 /NDF: 8348.3/35

In: -13.593 $\pm$ 0.491 χ^2 /NDF: 21935.1/35

Out: 4.016 $\pm$ 0.478 χ^2 /NDF: 3091.0/38

All: -4.562 $\pm$ 0.342 χ^2 /NDF: 25687.1/74

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.855 ± 0.626 $\chi^2/\text{NDF}: 109336.5/16$

Left Out: 2208.022 ± 0.410 $\chi^2/\text{NDF}: 977636.3/19$

Right Out: 2233.547 ± 0.596 $\chi^2/\text{NDF}: 146848.5/18$

Left In: 2199.709 ± 0.417 $\chi^2/\text{NDF}: 1018187.3/18$

Left: 2203.926 ± 0.292 $\chi^2/\text{NDF}: 1996025.6/38$

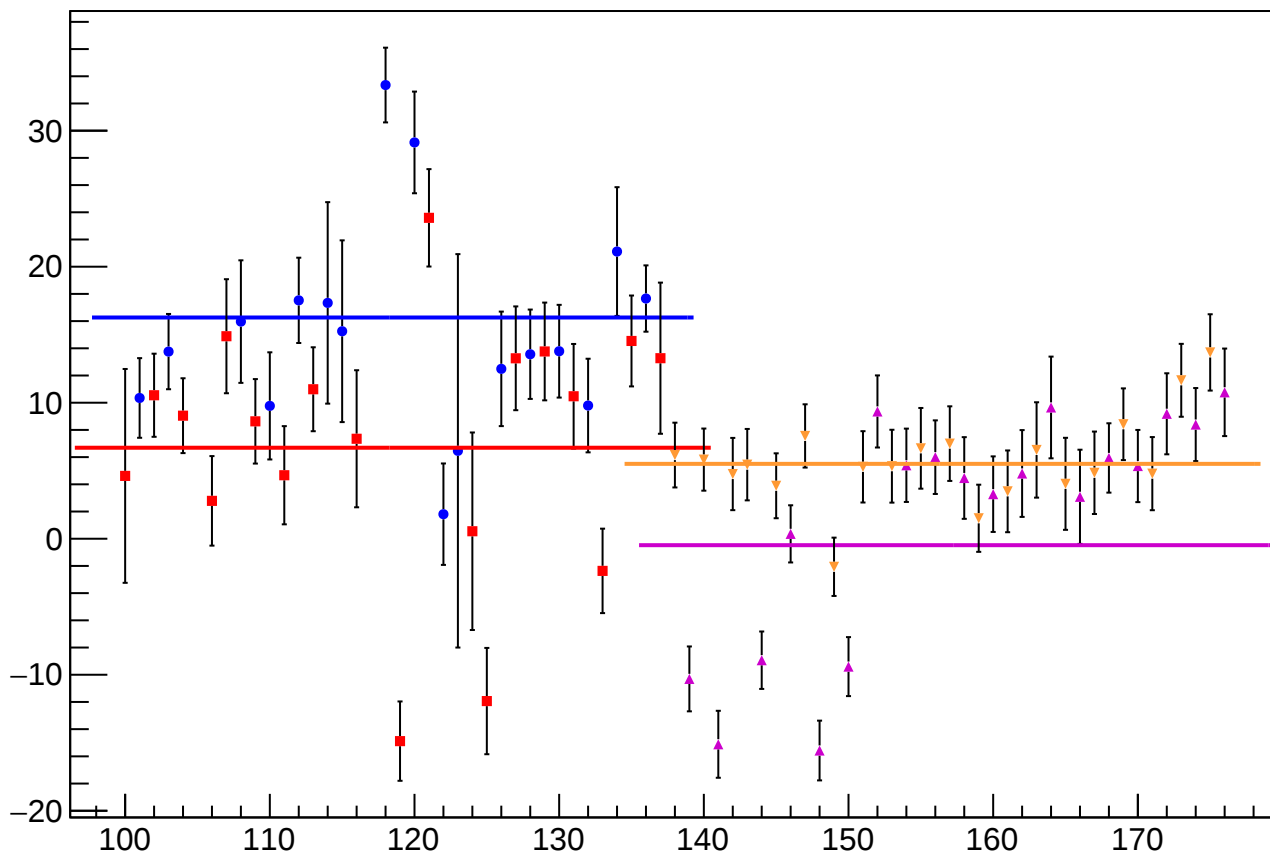
Right: 2258.395 ± 0.432 $\chi^2/\text{NDF}: 259847.1/35$

In: 2226.130 ± 0.347 $\chi^2/\text{NDF}: 1140641.5/35$

Out: 2216.239 ± 0.338 $\chi^2/\text{NDF}: 1125729.6/38$

All: 2221.057 ± 0.242 $\chi^2/\text{NDF}: 2266788.3/74$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 ± 0.872 χ^2/NDF : 80.8/16

Left Out: 5.504 ± 0.591 χ^2/NDF : 32.8/19

Right Out: 6.690 ± 0.831 χ^2/NDF : 134.0/18

Left In: -0.474 ± 0.601 χ^2/NDF : 217.3/18

Left: 2.568 ± 0.421 χ^2/NDF : 300.4/38

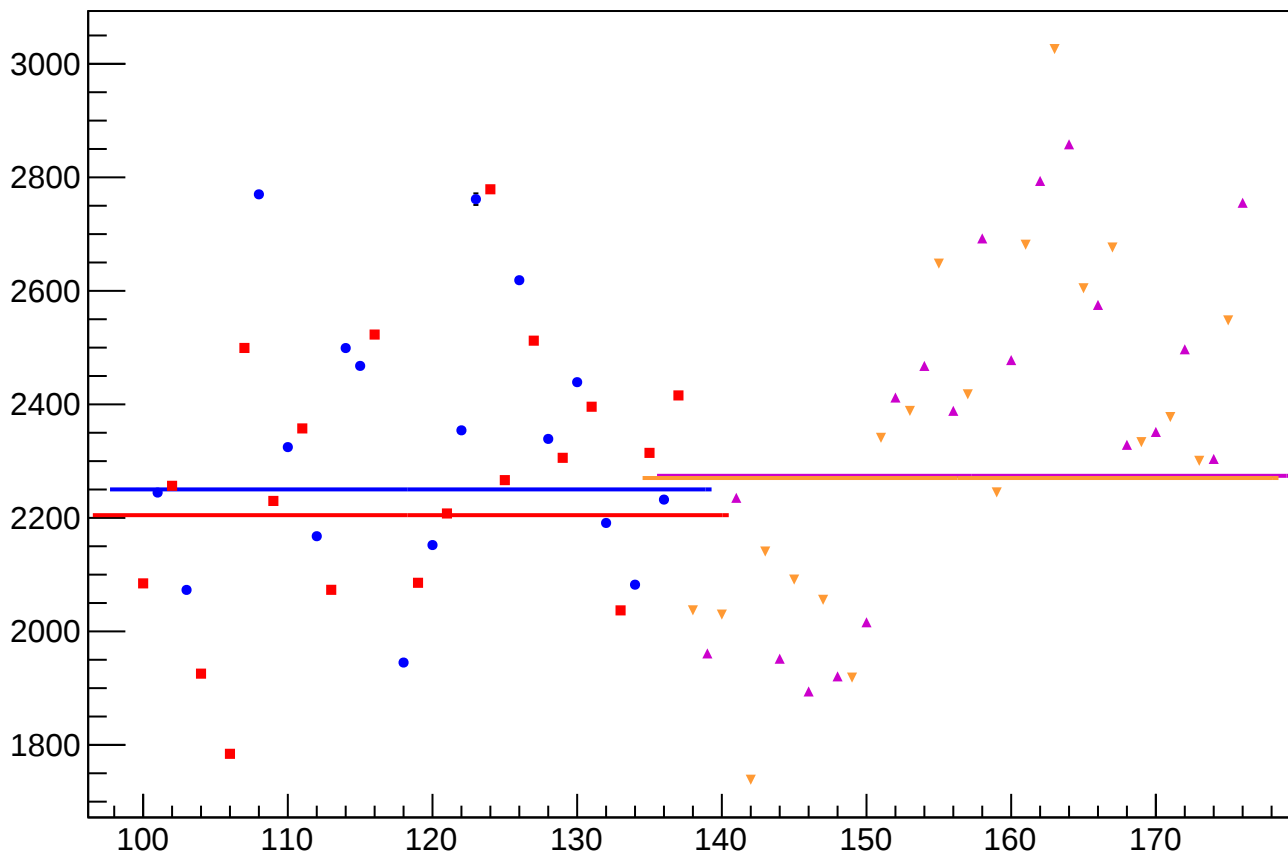
Right: 11.249 ± 0.601 χ^2/NDF : 278.0/35

In: 4.925 ± 0.495 χ^2/NDF : 548.1/35

Out: 5.903 ± 0.481 χ^2/NDF : 168.1/38

All: 5.427 ± 0.345 χ^2/NDF : 718.2/74

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

Left Out: 2270.240+/-0.418 χ^2/NDF : 462258.6/19

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: 2272.147+/-0.298 χ^2/NDF : 933918.9/38

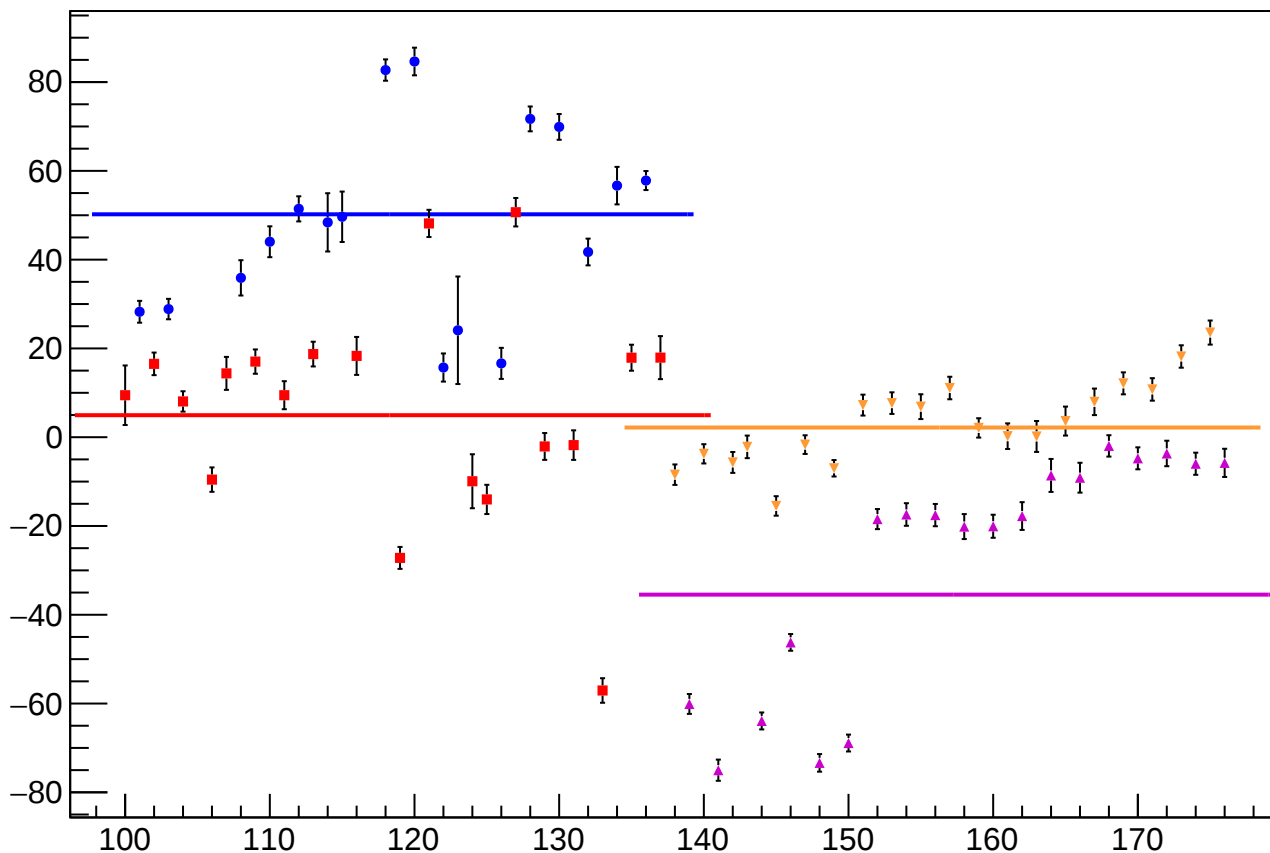
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

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

Out: 2248.259+/-0.340 χ^2/NDF : 596731.2/38

All: 2257.078+/-0.244 χ^2/NDF : 1168330.6/74

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

Left Out: 2.182+/-0.549 χ^2/NDF :295.0/19

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: -16.356+/-0.391 χ^2/NDF : 5003.6/38

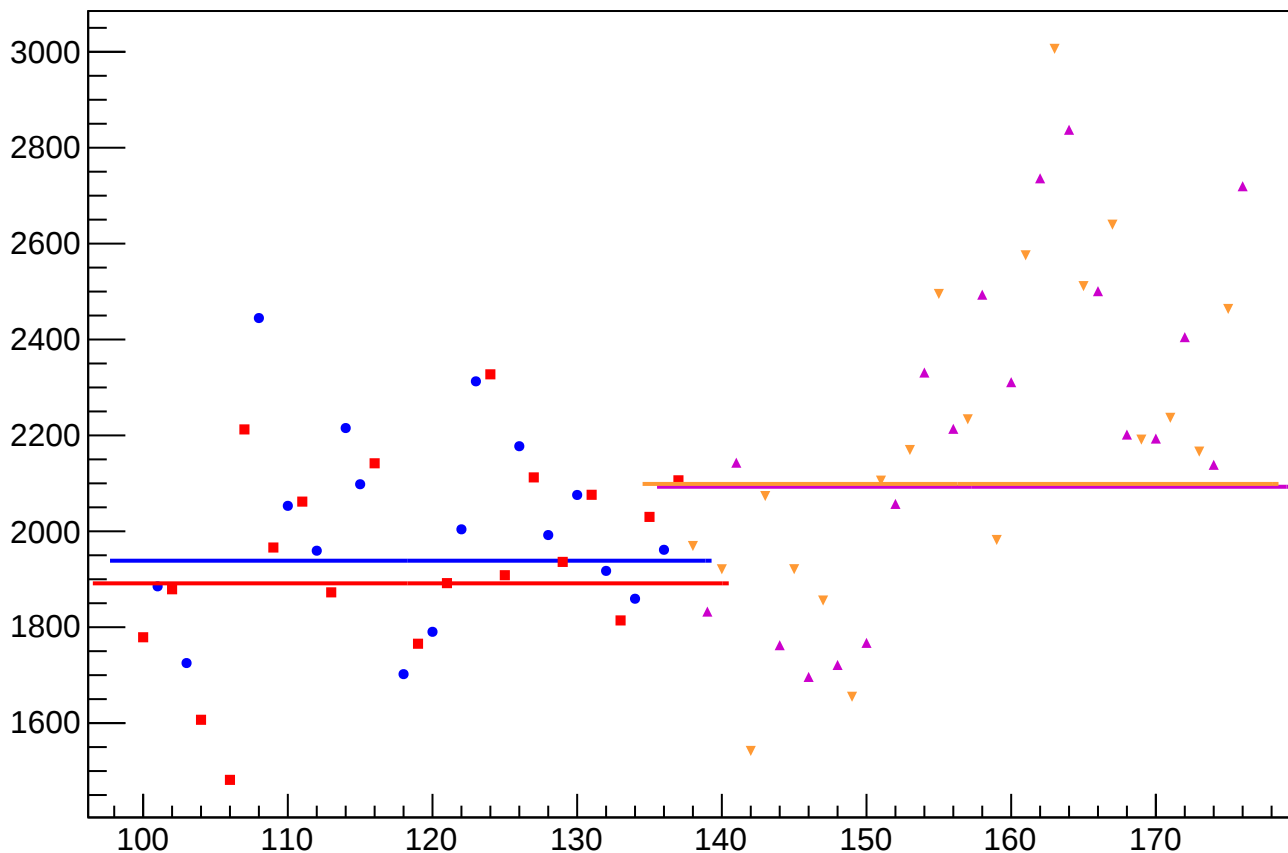
Right: 26.432+/-0.517 χ^2/NDF : 4002.4/35

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

Out: 3.213+/-0.435 χ^2/NDF :1567.1/38

All: -0.804+/-0.312 χ^2/NDF : 13363.3/74

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2098.811 ± 0.388 $\chi^2/\text{NDF}: 673633.0/19$

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: 2095.909 ± 0.276 $\chi^2/\text{NDF}: 1360445.8/38$

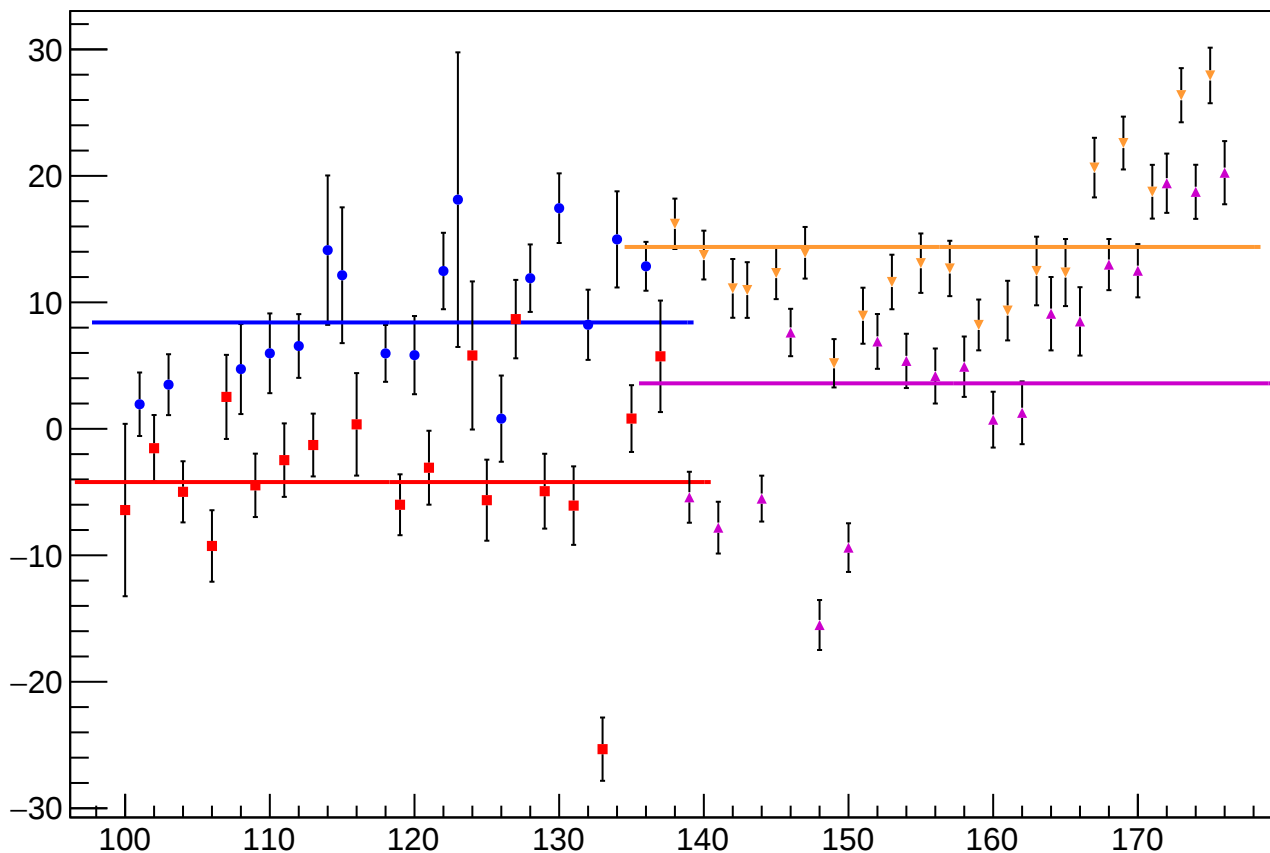
Right: 1913.873 ± 0.366 $\chi^2/\text{NDF}: 250923.8/35$

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

Out: 2021.774 ± 0.307 $\chi^2/\text{NDF}: 926429.6/38$

All: 2029.743 ± 0.220 $\chi^2/\text{NDF}: 1769096.2/74$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.411 $\pm$ 0.711 χ^2/NDF : 44.6/16

Left Out: 14.380 $\pm$ 0.486 χ^2/NDF :149.5/19

Right Out: -4.208 $\pm$ 0.682 χ^2/NDF : 113.1/18

Left In: 3.597 $\pm$ 0.496 χ^2/NDF :412.5/18

Left: 9.092 $\pm$ 0.347 χ^2/NDF : 803.3/38

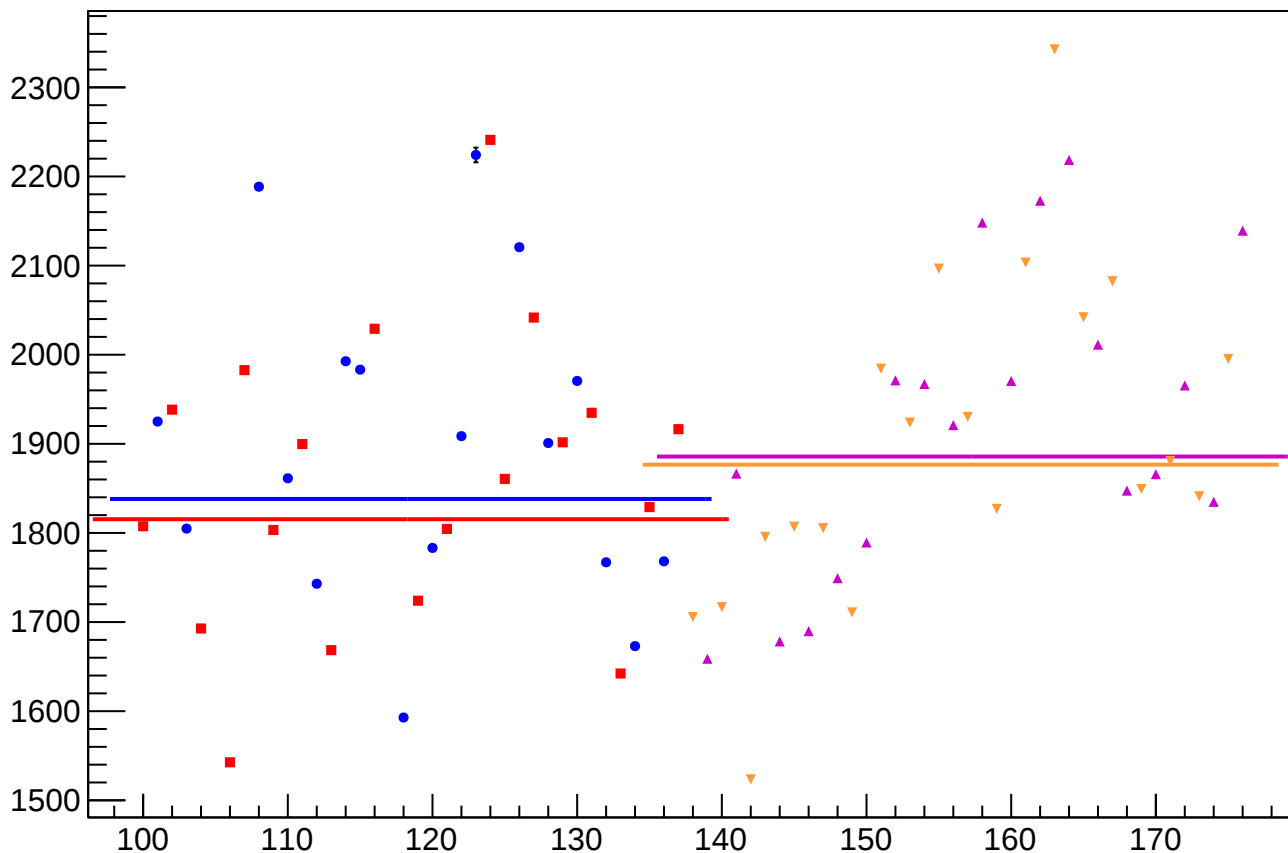
Right: 1.840 $\pm$ 0.492 χ^2/NDF : 321.6/35

In: 5.170 $\pm$ 0.407 χ^2/NDF :487.9/35

Out: 8.123 $\pm$ 0.396 χ^2/NDF :754.8/38

All: 6.686 $\pm$ 0.284 χ^2/NDF : 1269.8/74

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1876.634 $\pm$ 0.344 χ^2/NDF : 230063.6/19

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: 1881.106 $\pm$ 0.245 χ^2/NDF : 434572.1/38

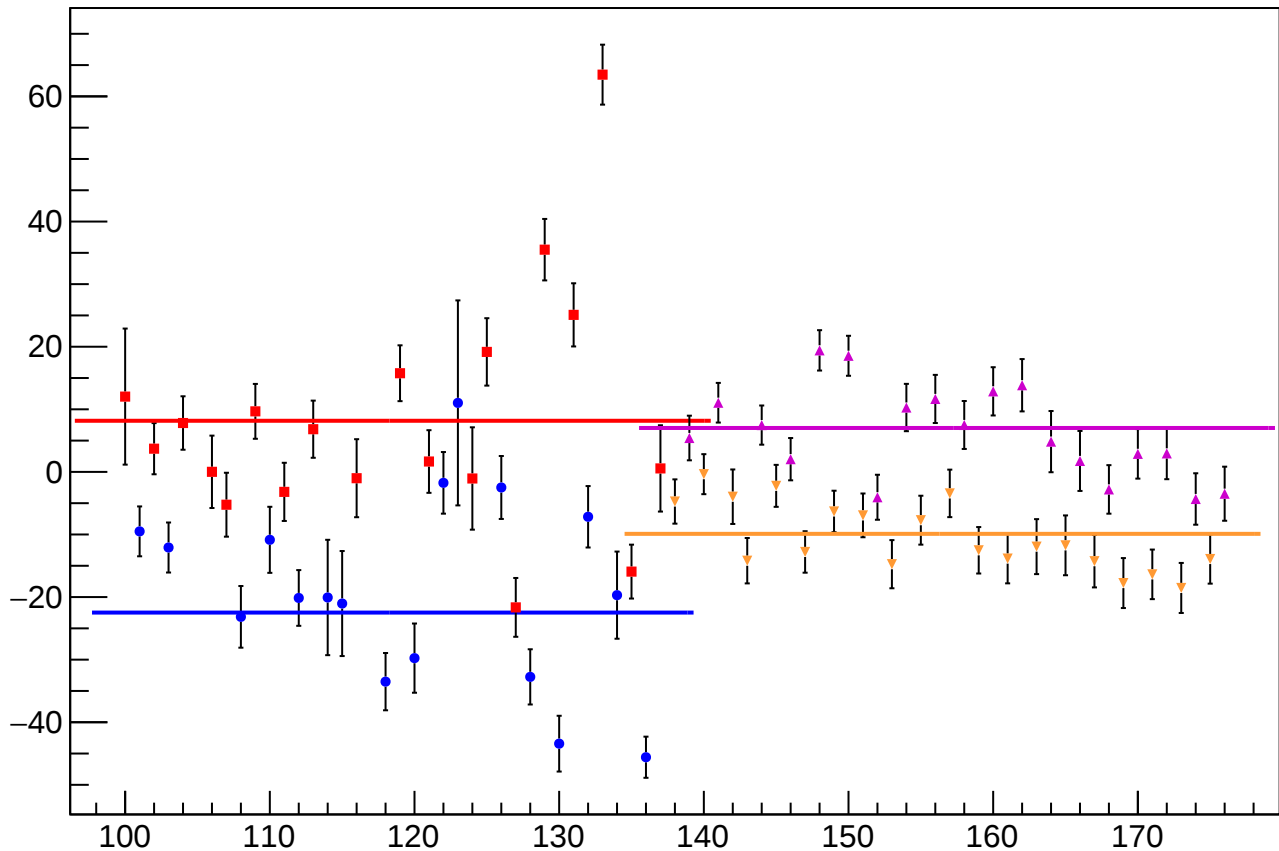
Right: 1826.303 $\pm$ 0.348 χ^2/NDF : 171362.3/35

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

Out: 1856.023 $\pm$ 0.280 χ^2/NDF : 328165.0/38

All: 1862.920 $\pm$ 0.201 χ^2/NDF : 622487.3/74

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

Left Out: -9.898 ± 0.844 χ^2/NDF : 42.2/19

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: -1.586 ± 0.602 χ^2/NDF : 311.6/38

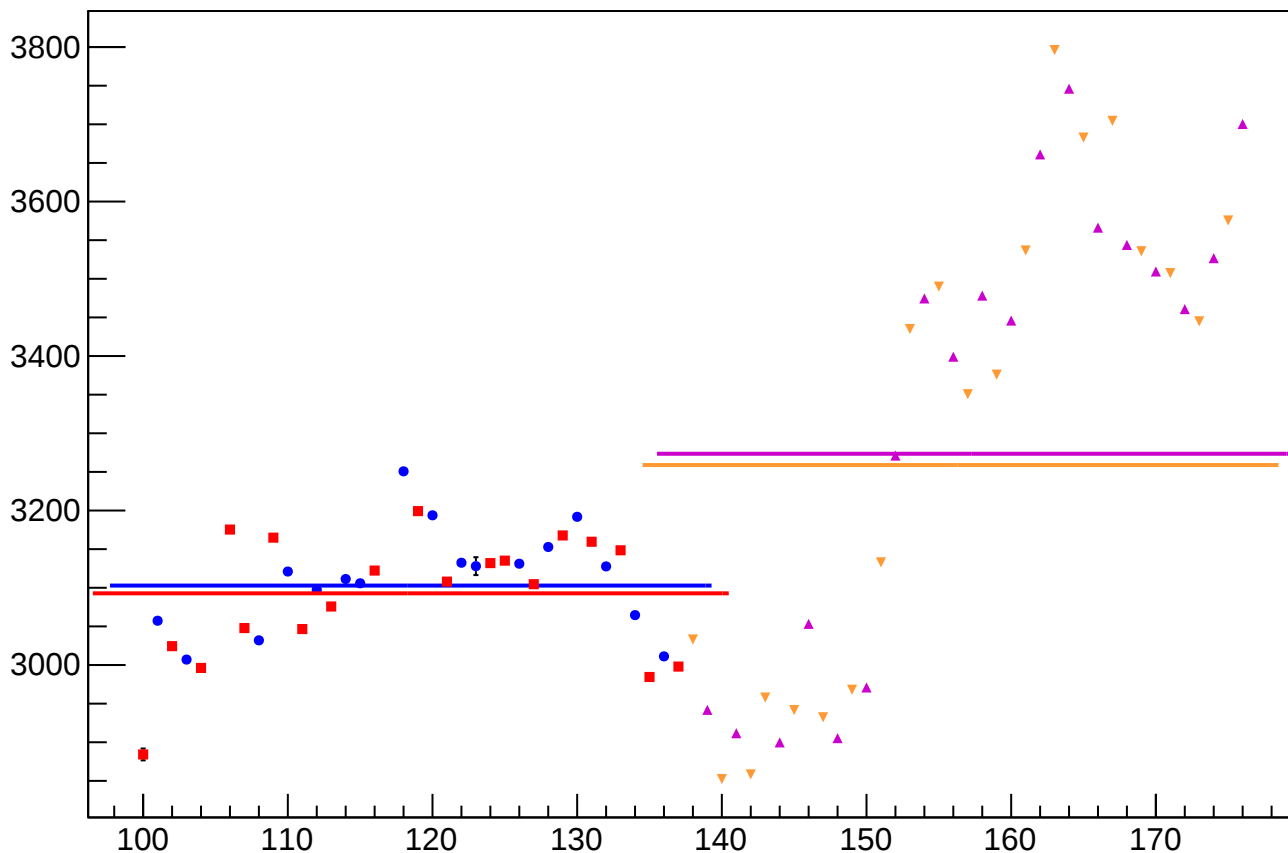
Right: -6.656 ± 0.831 χ^2/NDF : 771.3/35

In: -3.025 ± 0.697 χ^2/NDF : 628.6/35

Out: -3.622 ± 0.682 χ^2/NDF : 478.4/38

All: -3.330 ± 0.487 χ^2/NDF : 1107.4/74

diff_bpm0l01X_rms vs Slug, Sign Corrected



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

Left Out: 3258.884 $\pm$ 0.597 χ^2 /NDF: 253763.2/19

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: 3266.066 $\pm$ 0.425 χ^2 /NDF: 487374.0/38

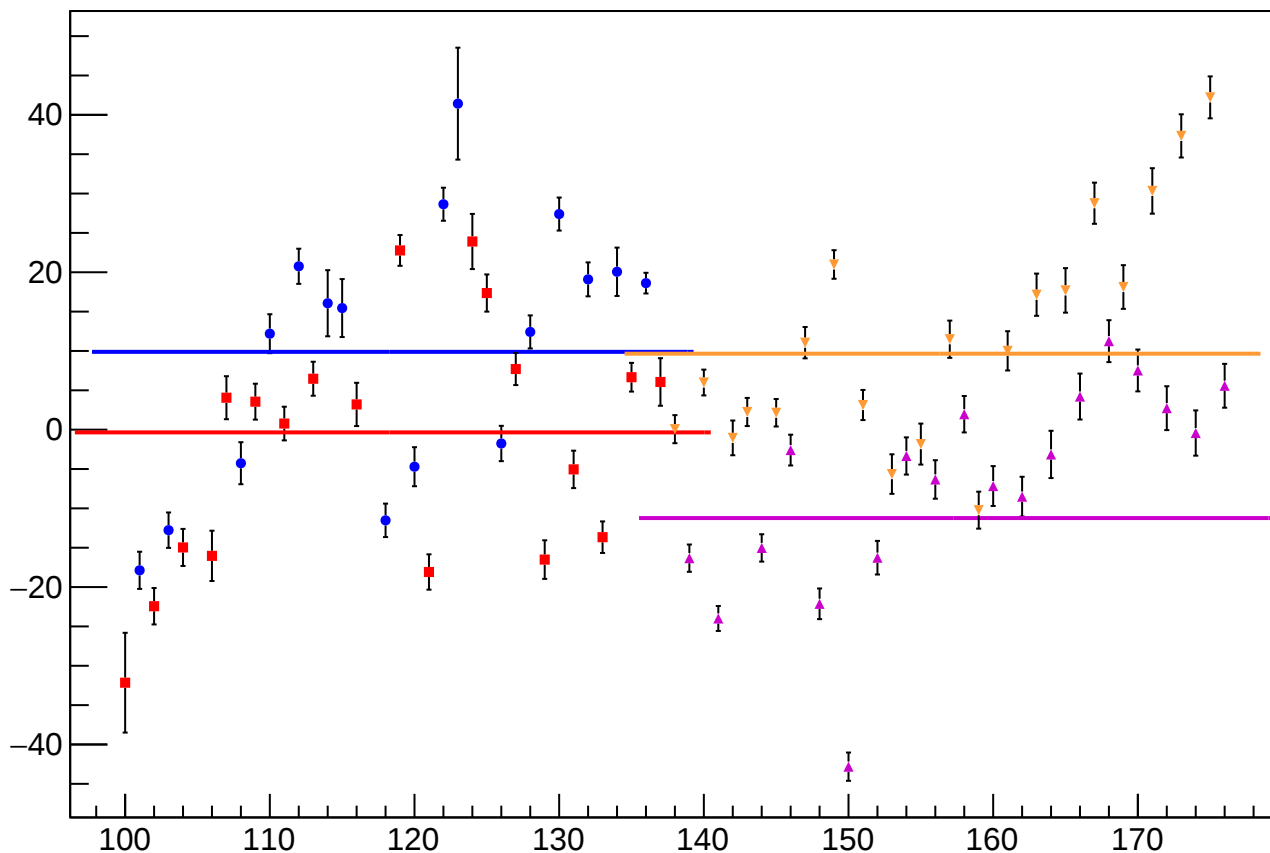
Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35

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

Out: 3201.189 $\pm$ 0.482 χ^2 /NDF: 288446.3/38

All: 3208.133 $\pm$ 0.345 χ^2 /NDF: 556444.2/74

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

Left Out: 9.653 ± 0.493 $\chi^2/\text{NDF}: 653.7/19$

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: -0.436 ± 0.354 $\chi^2/\text{NDF}: 2249.3/38$

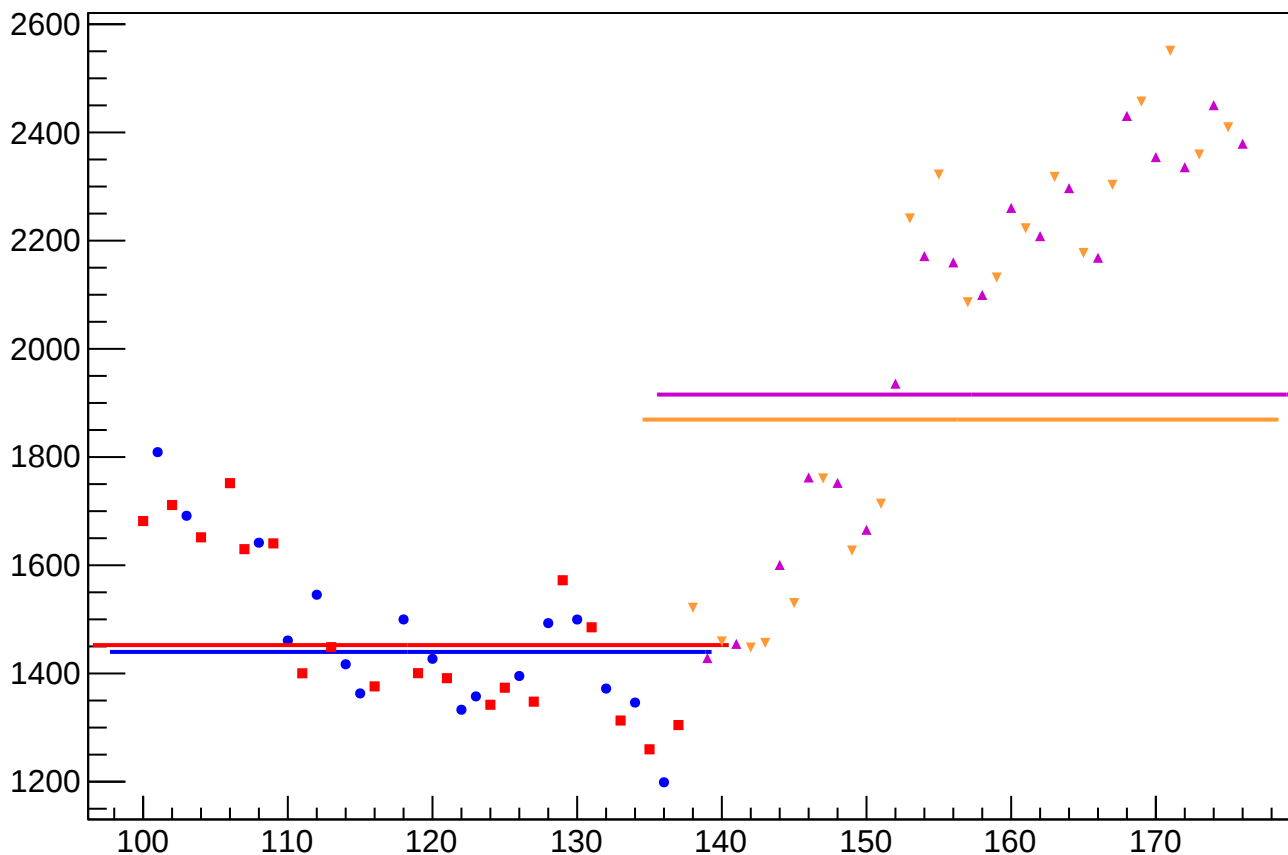
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

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

Out: 5.174 ± 0.366 $\chi^2/\text{NDF}: 1467.2/38$

All: 1.858 ± 0.263 $\chi^2/\text{NDF}: 3846.0/74$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1869.266 $\pm$ 0.348 χ^2 /NDF: 1178622.0/19

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: 1891.595 $\pm$ 0.250 χ^2 /NDF: 2111942.2/38

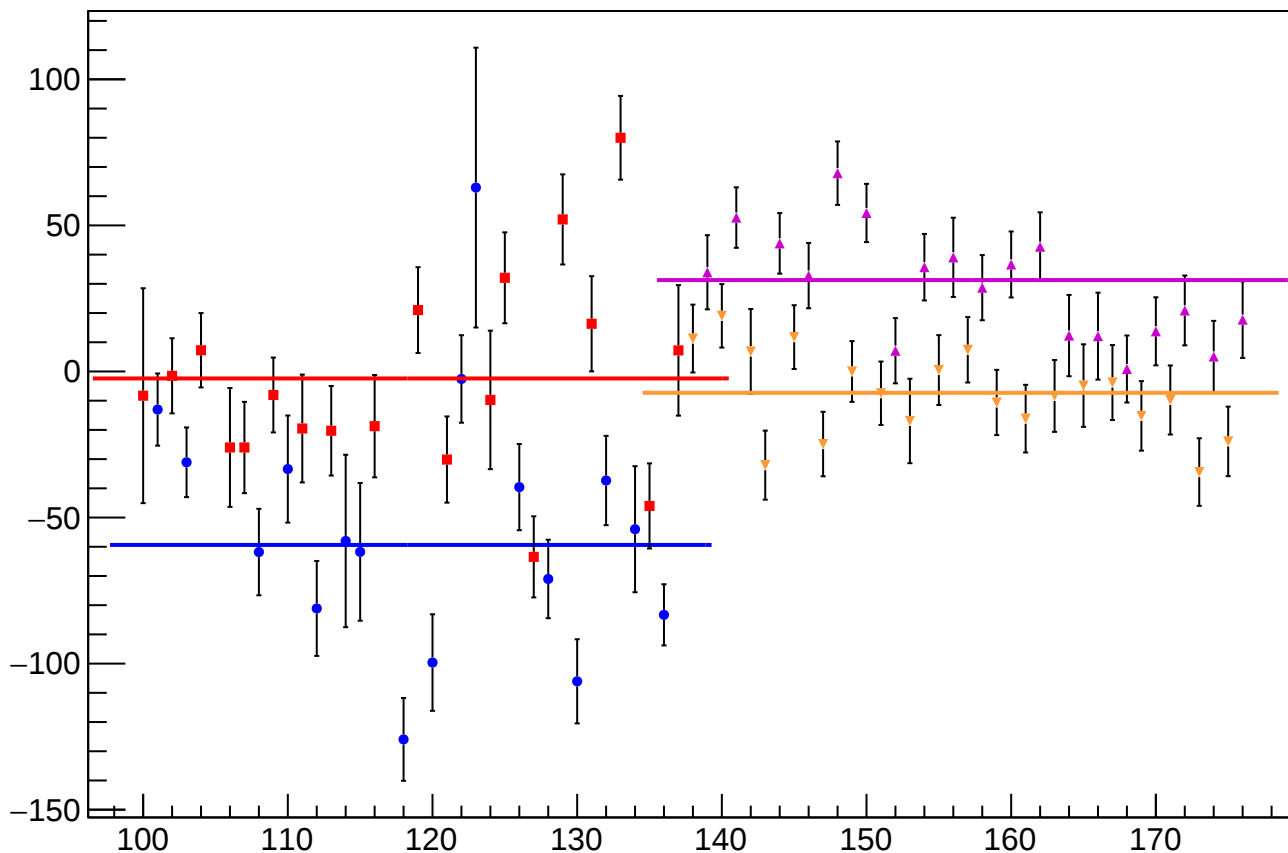
Right: 1446.283 $\pm$ 0.277 χ^2 /NDF: 311864.1/35

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

Out: 1682.558 $\pm$ 0.259 χ^2 /NDF: 1958522.6/38

All: 1690.940 $\pm$ 0.186 χ^2 /NDF: 3848486.0/74

diff_bpm0l02X_mean vs Slug, Sign Corrected



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

Left Out: -7.309 ± 2.637 $\chi^2/\text{NDF}: 31.2/19$

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

Left In: 31.285 ± 2.674 $\chi^2/\text{NDF}: 48.1/18$

Left: 11.719 ± 1.878 $\chi^2/\text{NDF}: 184.9/38$

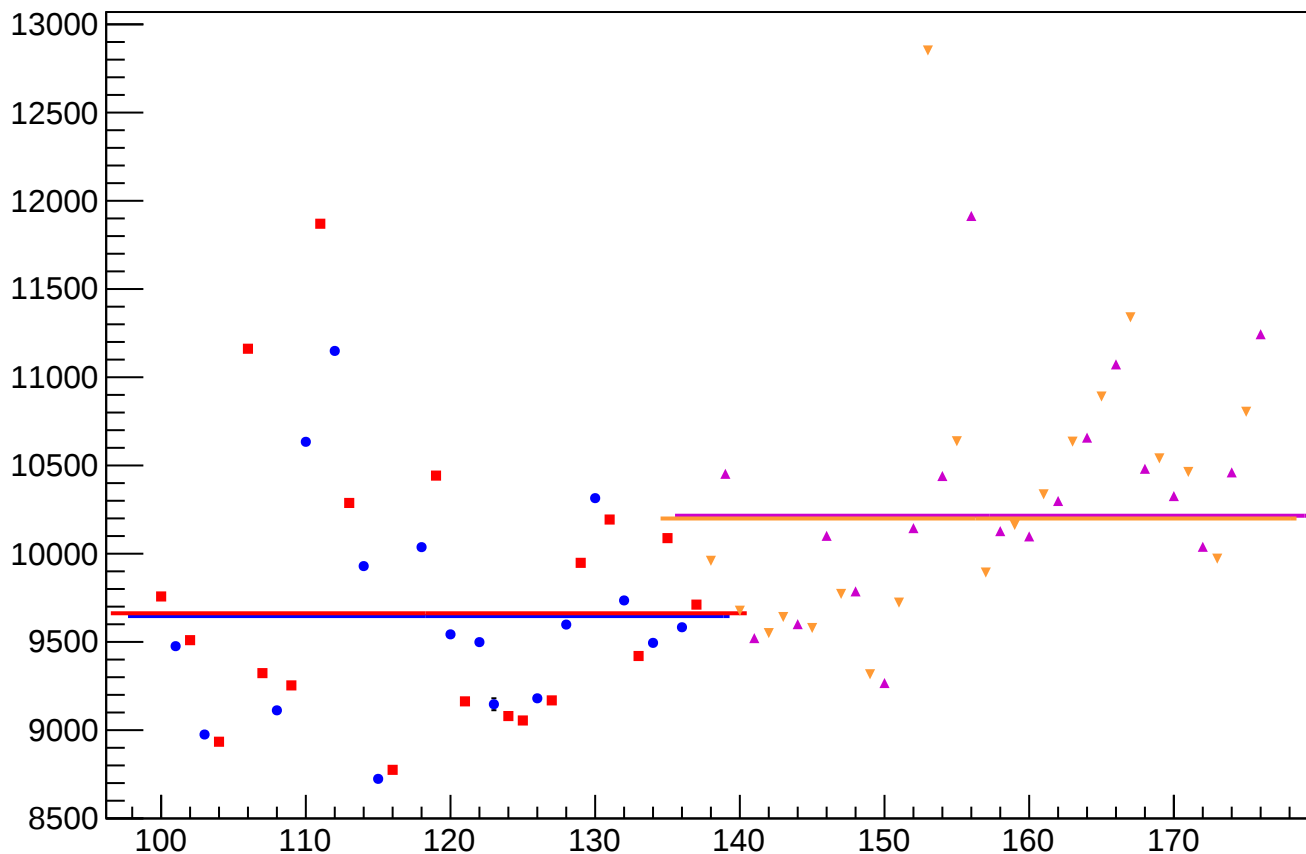
Right: -30.113 ± 2.601 $\chi^2/\text{NDF}: 306.8/35$

In: 0.495 ± 2.173 $\chi^2/\text{NDF}: 531.4/35$

Out: -5.609 ± 2.133 $\chi^2/\text{NDF}: 126.3/38$

All: -2.613 ± 1.522 $\chi^2/\text{NDF}: 661.7/74$

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480 $\pm$ 2.637 χ^2/NDF : 44060.3/16

Left Out: 10199.452 $\pm$ 1.865 χ^2/NDF : 145235.1/19

Right Out: 9662.363 $\pm$ 2.567 χ^2/NDF : 77584.0/18

Left In: 10215.212 $\pm$ 1.891 χ^2/NDF : 94279.8/18

Left: 10207.222 $\pm$ 1.328 χ^2/NDF : 239550.1/38

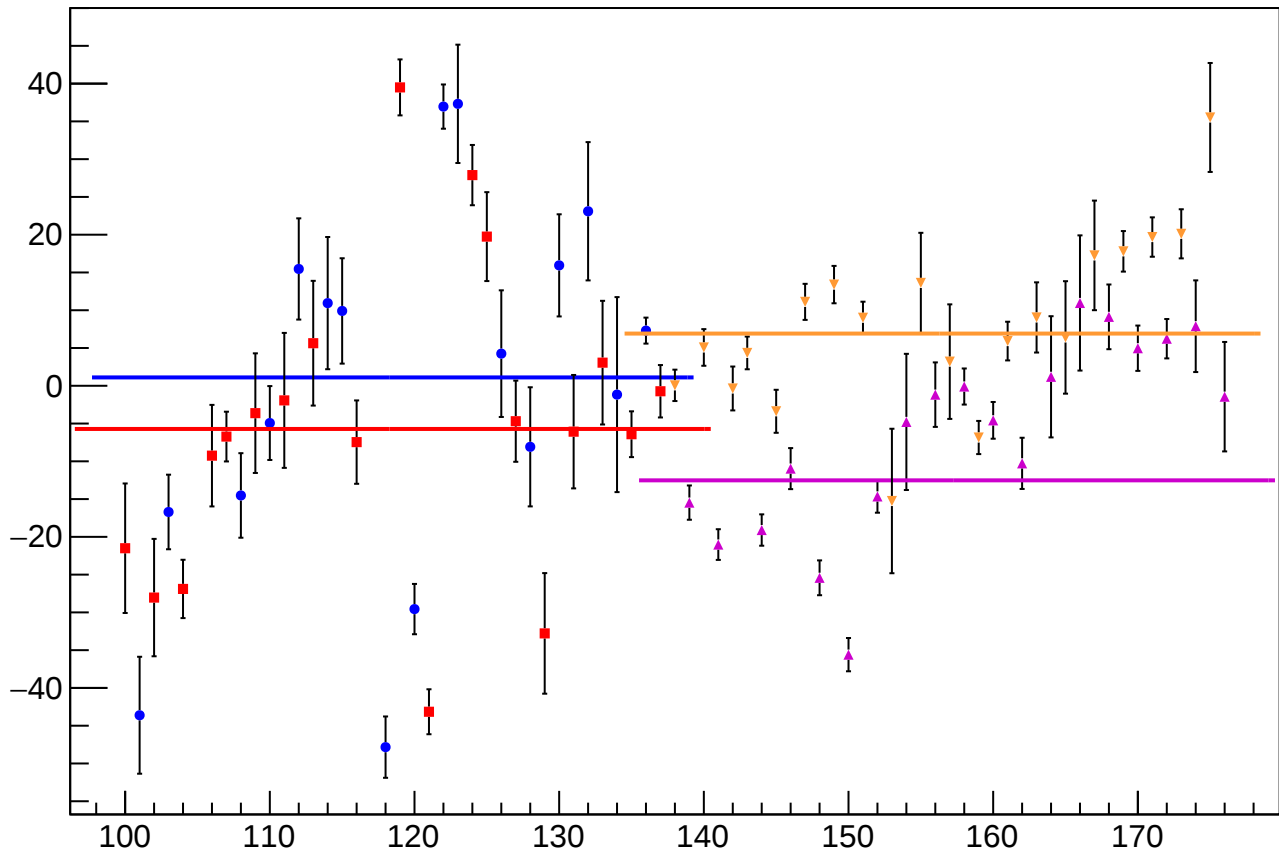
Right: 9654.635 $\pm$ 1.839 χ^2/NDF : 121662.9/35

In: 10022.058 $\pm$ 1.537 χ^2/NDF : 169065.2/35

Out: 10013.892 $\pm$ 1.509 χ^2/NDF : 251480.8/38

All: 10017.900 $\pm$ 1.076 χ^2/NDF : 420560.4/74

diff_bpm0l02Y_mean vs Slug, Sign Corrected



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

Left Out: 6.911 ± 0.658 $\chi^2/\text{NDF}: 164.1/19$

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: -2.778 ± 0.466 $\chi^2/\text{NDF}: 951.6/38$

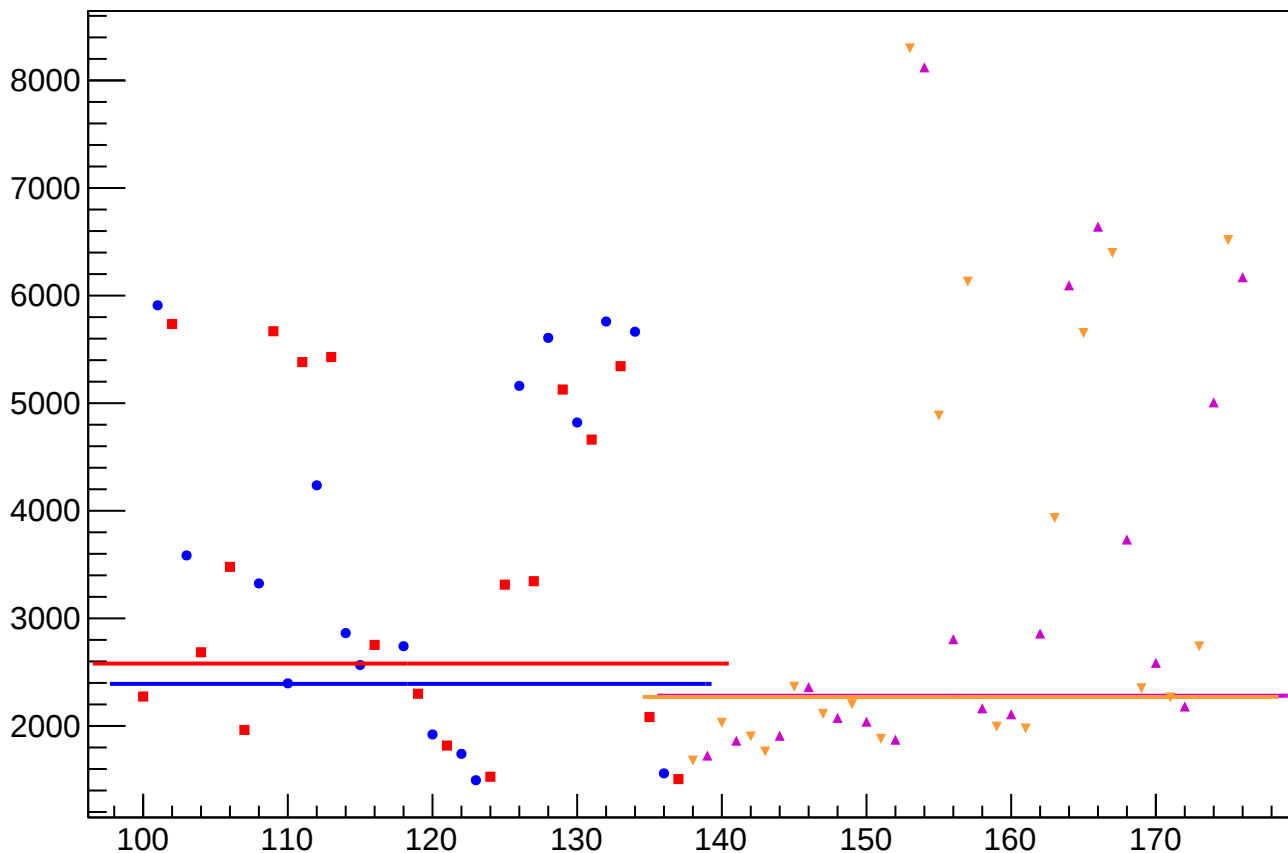
Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$

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

Out: 3.546 ± 0.563 $\chi^2/\text{NDF}: 718.3/38$

All: -2.628 ± 0.397 $\chi^2/\text{NDF}: 1917.6/74$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2269.559 $\pm$ 0.465 χ^2/NDF : 4139014.2/19

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: 2275.456 $\pm$ 0.329 χ^2/NDF : 7625989.0/38

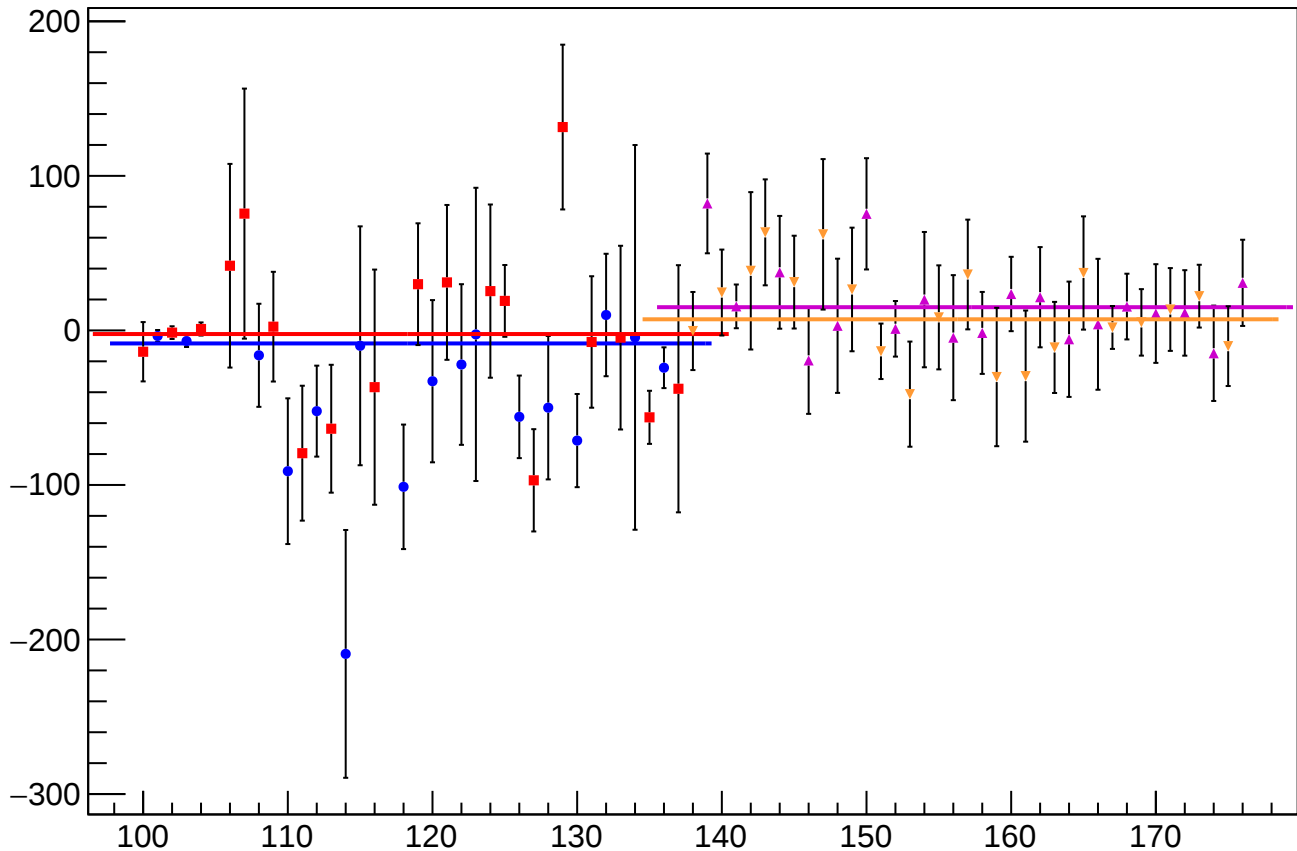
Right: 2483.443 $\pm$ 0.539 χ^2/NDF : 4996468.7/35

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

Out: 2352.299 $\pm$ 0.398 χ^2/NDF : 6623071.3/38

All: 2331.939 $\pm$ 0.281 χ^2/NDF : 12730805.0/77

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.430 ± 2.587 χ^2/NDF : 28.9/16

Left Out: 7.191 ± 6.028 χ^2/NDF : 13.4/19

Right Out: -2.348 ± 2.787 χ^2/NDF : 34.7/18

Left In: 15.021 ± 6.289 χ^2/NDF : 11.7/18

Left: 10.941 ± 4.352 χ^2/NDF : 25.9/38

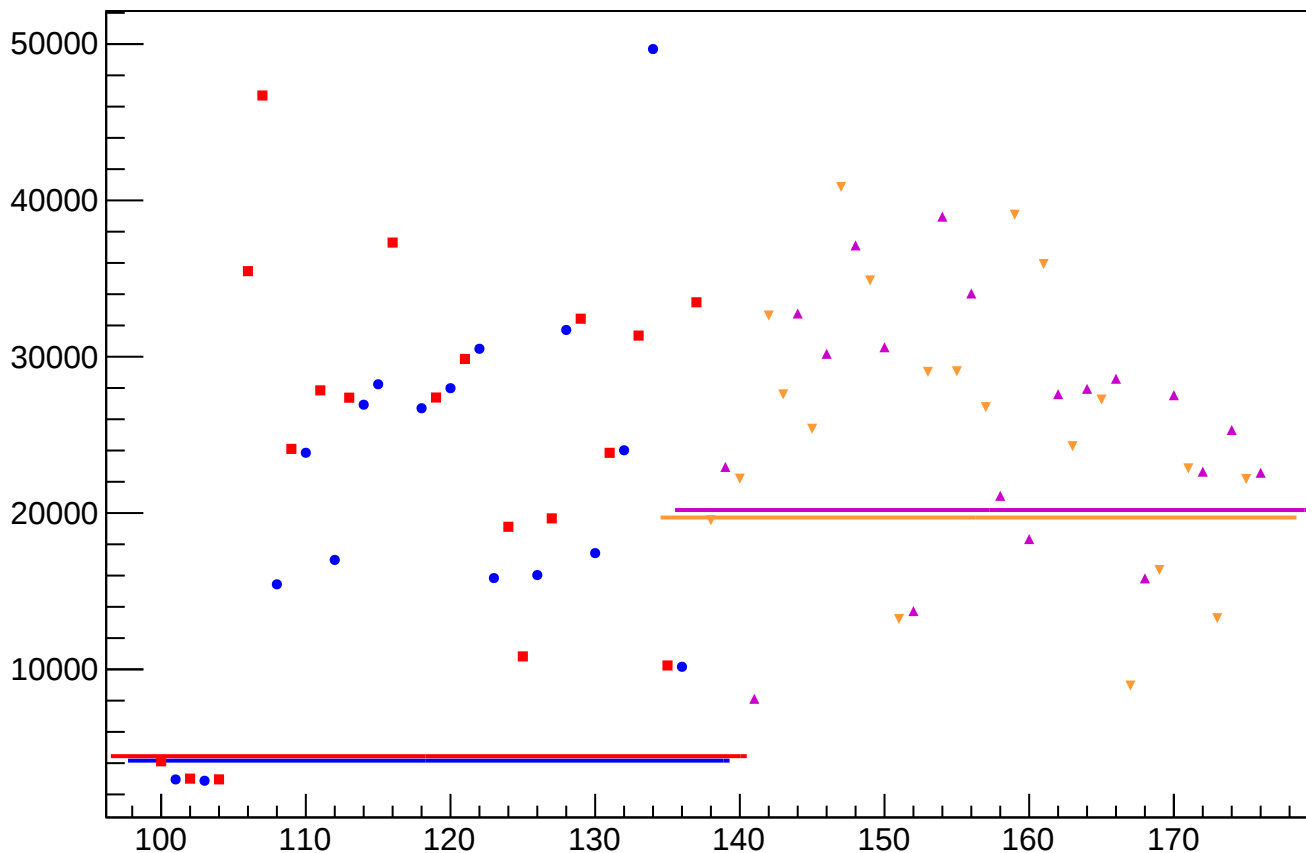
Right: -5.615 ± 1.896 χ^2/NDF : 66.1/35

In: -5.035 ± 2.393 χ^2/NDF : 52.5/35

Out: -0.668 ± 2.530 χ^2/NDF : 50.2/38

All: -2.973 ± 1.738 χ^2/NDF : 104.2/74

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

Left Out: 19714.378 ± 4.262 $\chi^2/\text{NDF}: 3927368.0/19$

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

Left In: 20193.657 ± 4.447 $\chi^2/\text{NDF}: 3767687.5/18$

Left: 19943.872 ± 3.077 $\chi^2/\text{NDF}: 7701109.6/38$

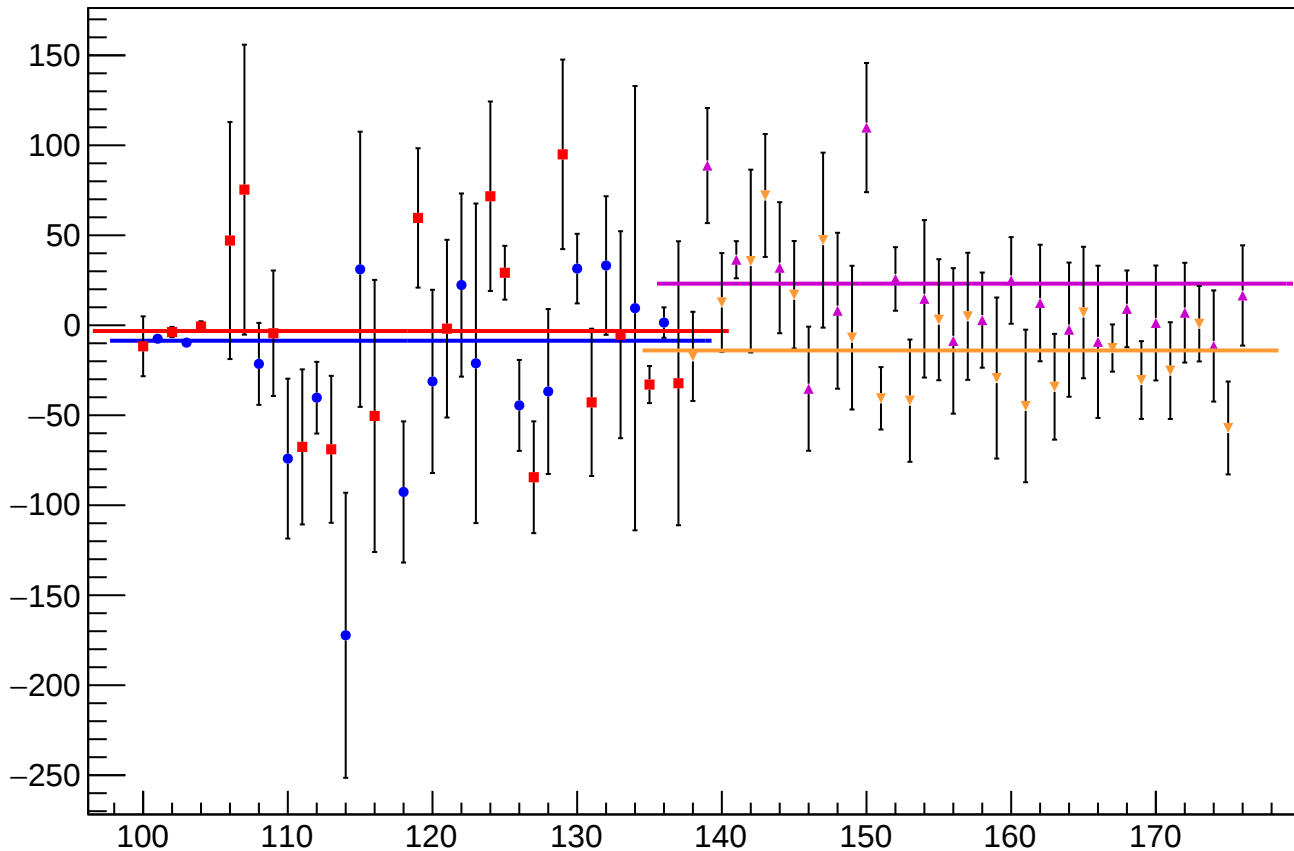
Right: 4294.168 ± 1.341 $\chi^2/\text{NDF}: 13428219.0/35$

In: 6483.219 ± 1.692 $\chi^2/\text{NDF}: 20873063.0/35$

Out: 7135.687 ± 1.789 $\chi^2/\text{NDF}: 21924669.2/38$

All: 6791.338 ± 1.229 $\chi^2/\text{NDF}: 42867957.3/71$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -13.990±5.940 χ^2/NDF : 20.1/19

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: 5.046±4.146 χ^2/NDF : 59.8/38

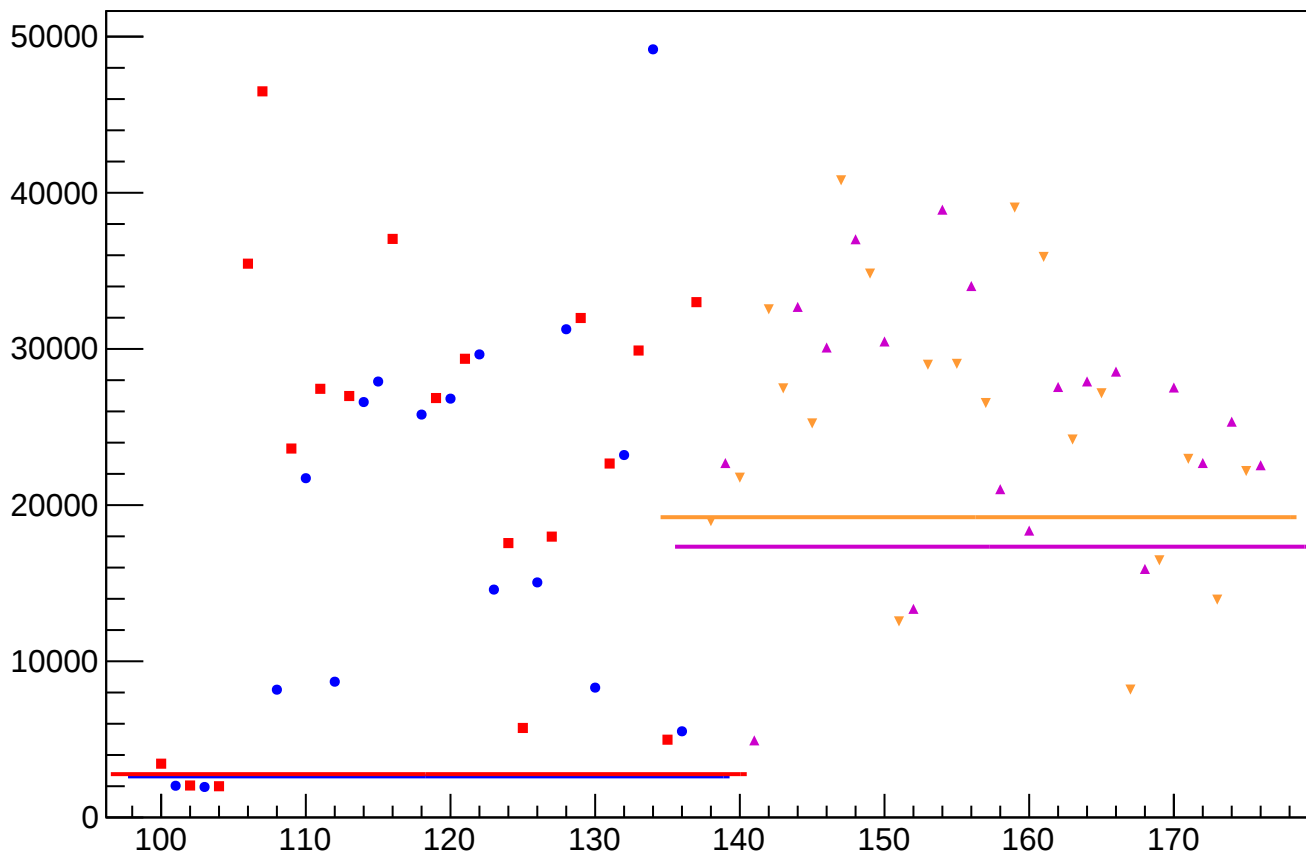
Right: -6.100±1.305 χ^2/NDF : 65.5/35

In: -5.854±1.699 χ^2/NDF : 71.6/35

Out: -4.217±1.829 χ^2/NDF : 59.9/38

All: -5.096±1.245 χ^2/NDF : 131.9/74

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19226.425 ± 4.200 $\chi^2/\text{NDF}: 4264263.3/19$

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

Left In: 17337.693 ± 4.094 $\chi^2/\text{NDF}: 6224724.6/18$

Left: 18257.816 ± 2.932 $\chi^2/\text{NDF}: 10592678.3/38$

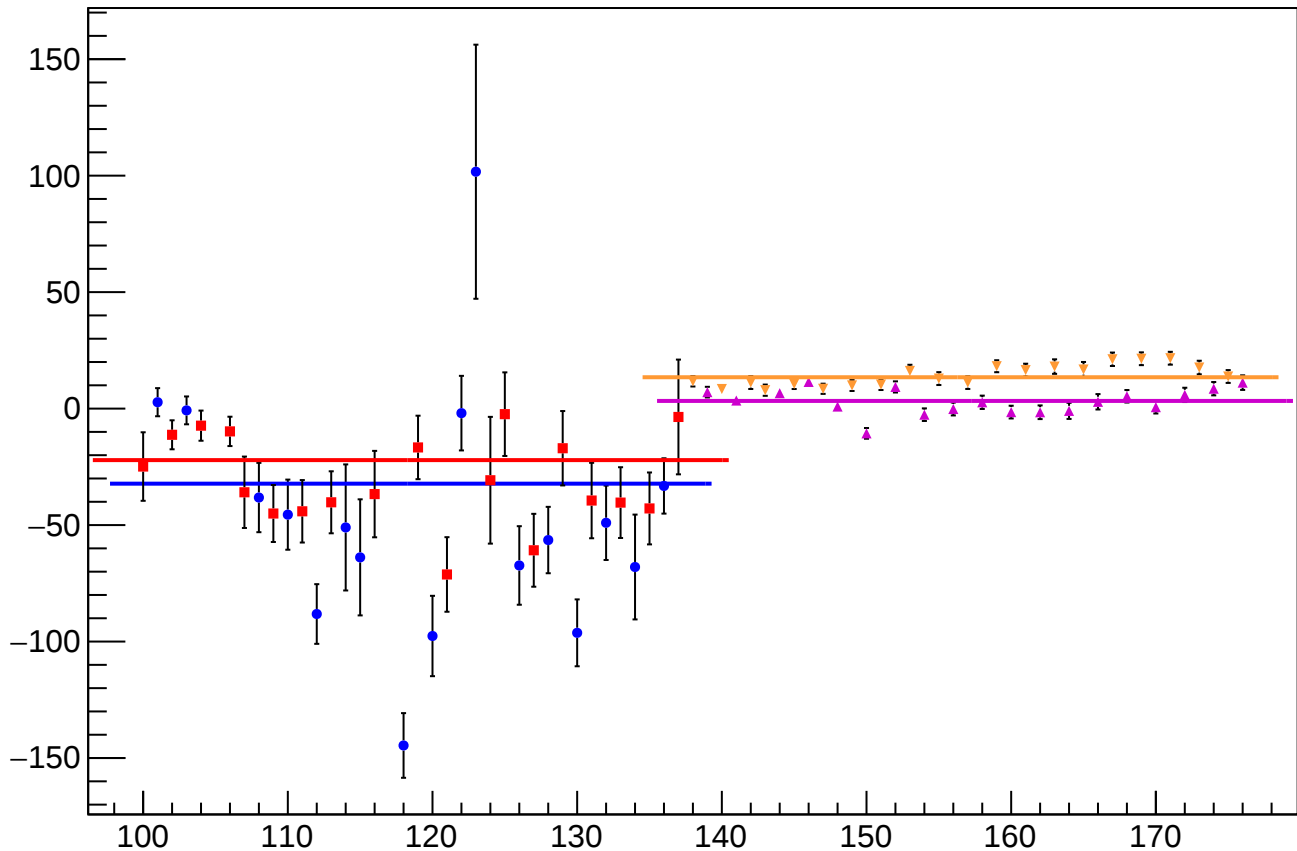
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3897.713 ± 1.202 $\chi^2/\text{NDF}: 23607386.9/35$

Out: 4332.992 ± 1.293 $\chi^2/\text{NDF}: 25988756.6/38$

All: 4099.407 ± 0.880 $\chi^2/\text{NDF}: 49656940.0/7$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 13.461 ± 0.576 χ^2/NDF : 58.8/19

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: 8.499 ± 0.412 χ^2/NDF : 300.9/38

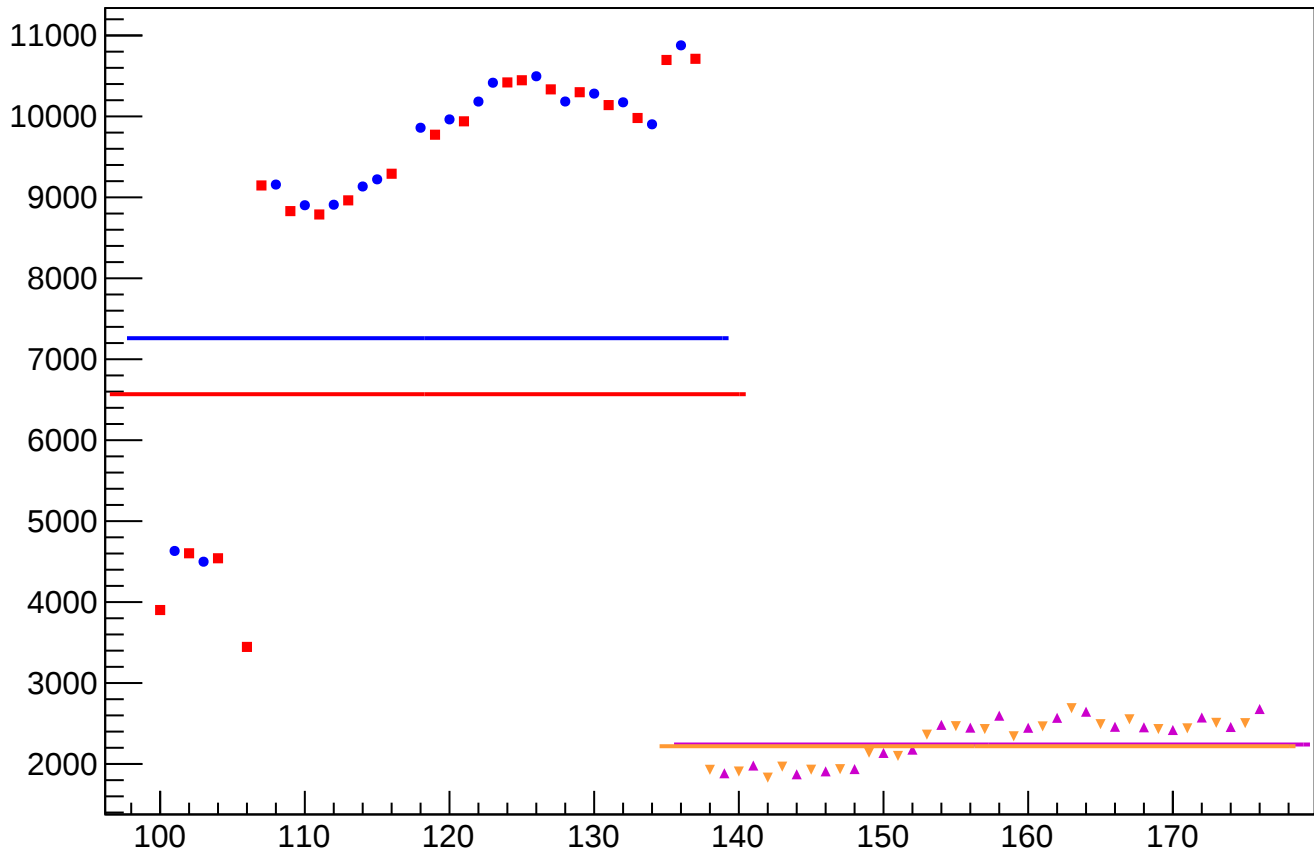
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 1.955 ± 0.579 χ^2/NDF : 430.4/35

Out: 11.877 ± 0.563 χ^2/NDF : 272.1/38

All: 7.051 ± 0.404 χ^2/NDF : 853.4/74

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2219.222 $\pm$ 0.408 χ^2/NDF : 418744.3/19

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

Left In: 2240.429 $\pm$ 0.417 χ^2/NDF : 464816.4/18

Left: 2229.574 $\pm$ 0.292 χ^2/NDF : 884882.3/38

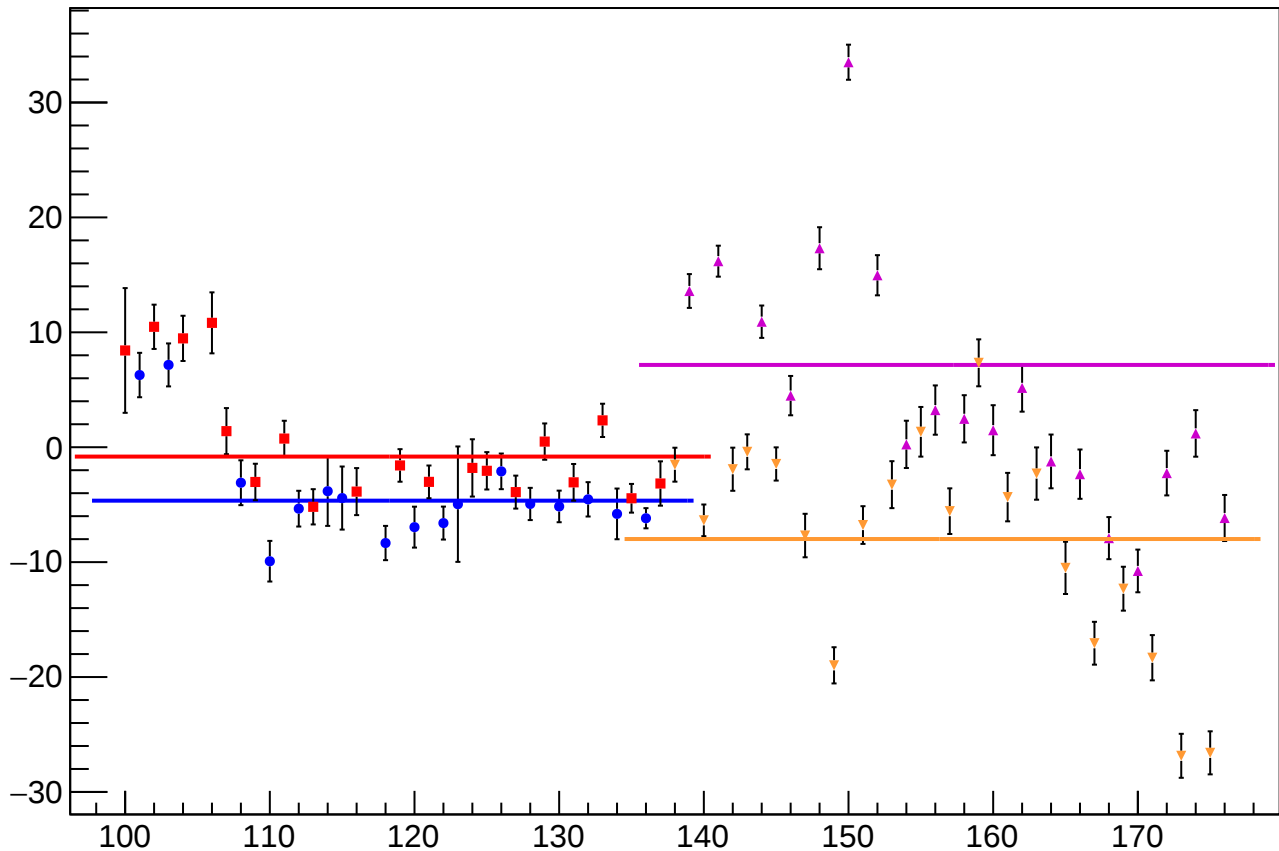
Right: 6876.033 $\pm$ 1.406 χ^2/NDF : 3892707.9/35

In: 2429.742 $\pm$ 0.409 χ^2/NDF : 7556772.0/35

Out: 2412.970 $\pm$ 0.398 χ^2/NDF : 7687667.7/38

All: 2421.127 $\pm$ 0.286 χ^2/NDF : 15245301.8/7

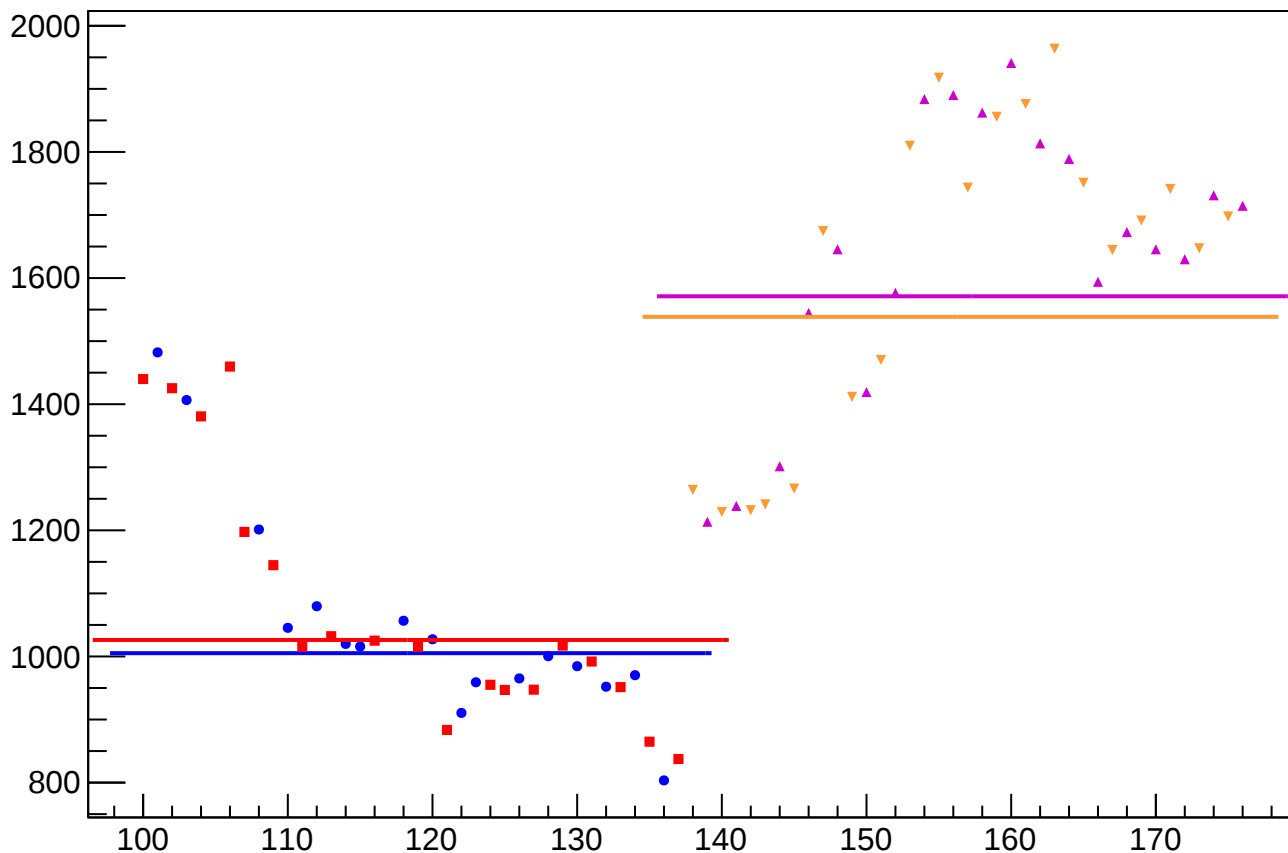
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -7.989 ± 0.403 $\chi^2/\text{NDF}: 470.0/19$
 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: -0.651 ± 0.289 $\chi^2/\text{NDF}: 1875.0/38$
 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: -4.274 ± 0.280 $\chi^2/\text{NDF}: 758.1/38$
 All: -1.729 ± 0.200 $\chi^2/\text{NDF}: 2171.1/74$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1005.227 $\pm$ 0.278 χ^2/NDF : 361954.2/16

Left Out: 1538.494 $\pm$ 0.285 χ^2/NDF : 763485.1/19

Right Out: 1026.158 $\pm$ 0.275 χ^2/NDF : 333119.0/18

Left In: 1571.116 $\pm$ 0.294 χ^2/NDF : 604017.0/18

Left: 1554.293 $\pm$ 0.204 χ^2/NDF : 1373860.6/38

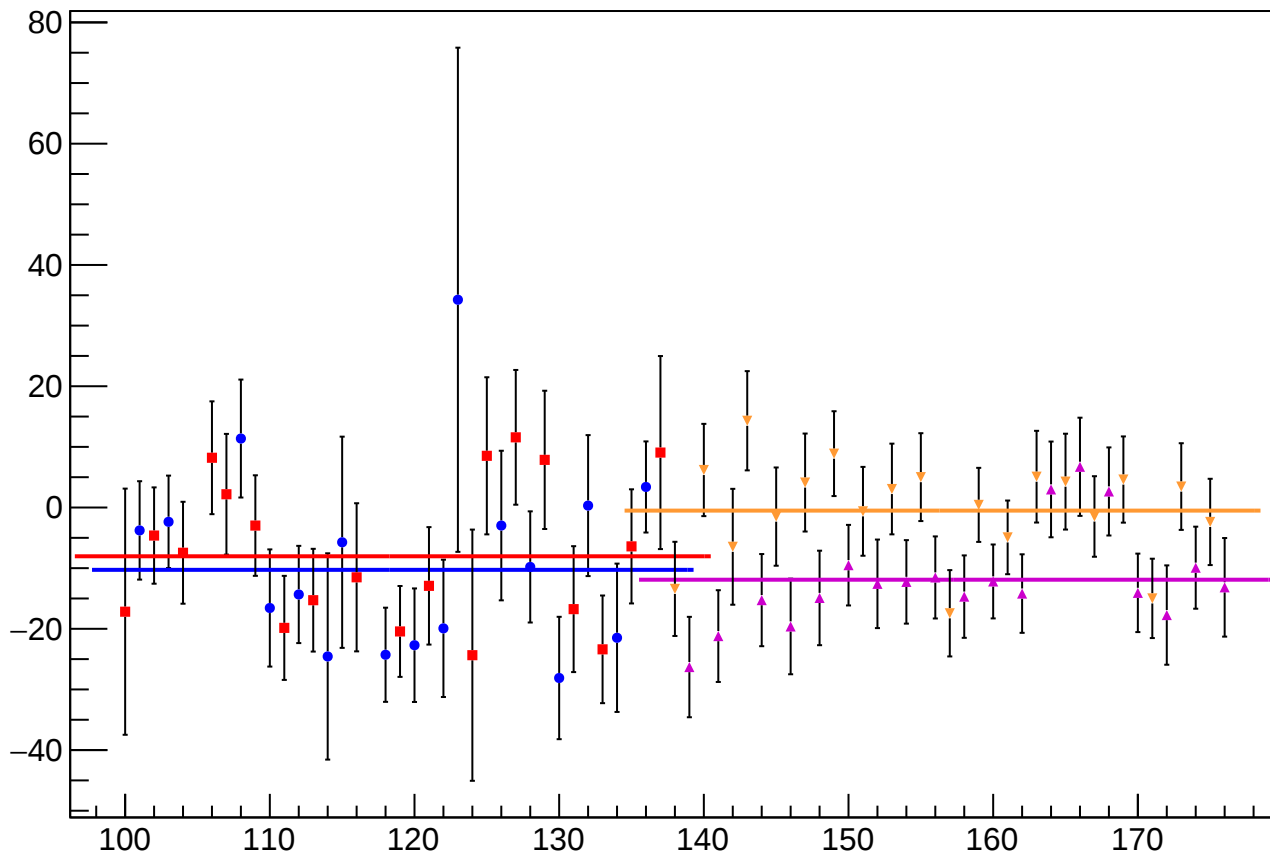
Right: 1015.803 $\pm$ 0.195 χ^2/NDF : 697945.4/35

In: 1272.193 $\pm$ 0.202 χ^2/NDF : 2925980.5/35

Out: 1273.180 $\pm$ 0.198 χ^2/NDF : 2773621.9/38

All: 1272.697 $\pm$ 0.141 χ^2/NDF : 5699614.6/74

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.509 $\pm$ 1.625 χ^2/NDF : 23.1/19

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: -6.101 $\pm$ 1.160 χ^2/NDF : 67.1/38

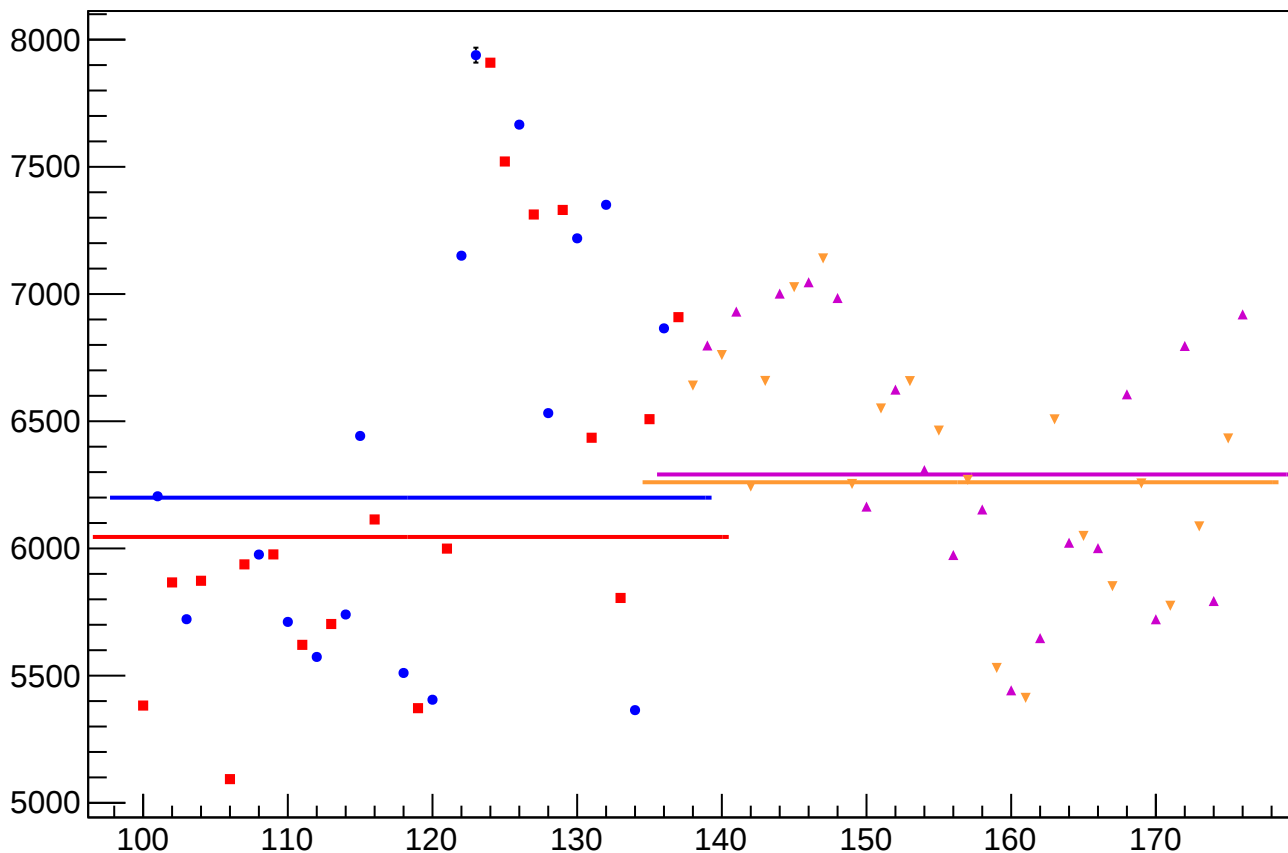
Right: -9.097 $\pm$ 1.655 χ^2/NDF : 46.7/35

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

Out: -3.049 $\pm$ 1.323 χ^2/NDF : 53.1/38

All: -7.088 $\pm$ 0.950 χ^2/NDF : 116.0/74

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6199.617 ± 1.703 $\chi^2/\text{NDF}: 171760.4/16$

Left Out: 6260.176 ± 1.149 $\chi^2/\text{NDF}: 162156.2/19$

Right Out: 6045.172 ± 1.611 $\chi^2/\text{NDF}: 158323.0/18$

Left In: 6290.813 ± 1.171 $\chi^2/\text{NDF}: 196643.9/18$

Left: 6275.208 ± 0.820 $\chi^2/\text{NDF}: 359148.8/38$

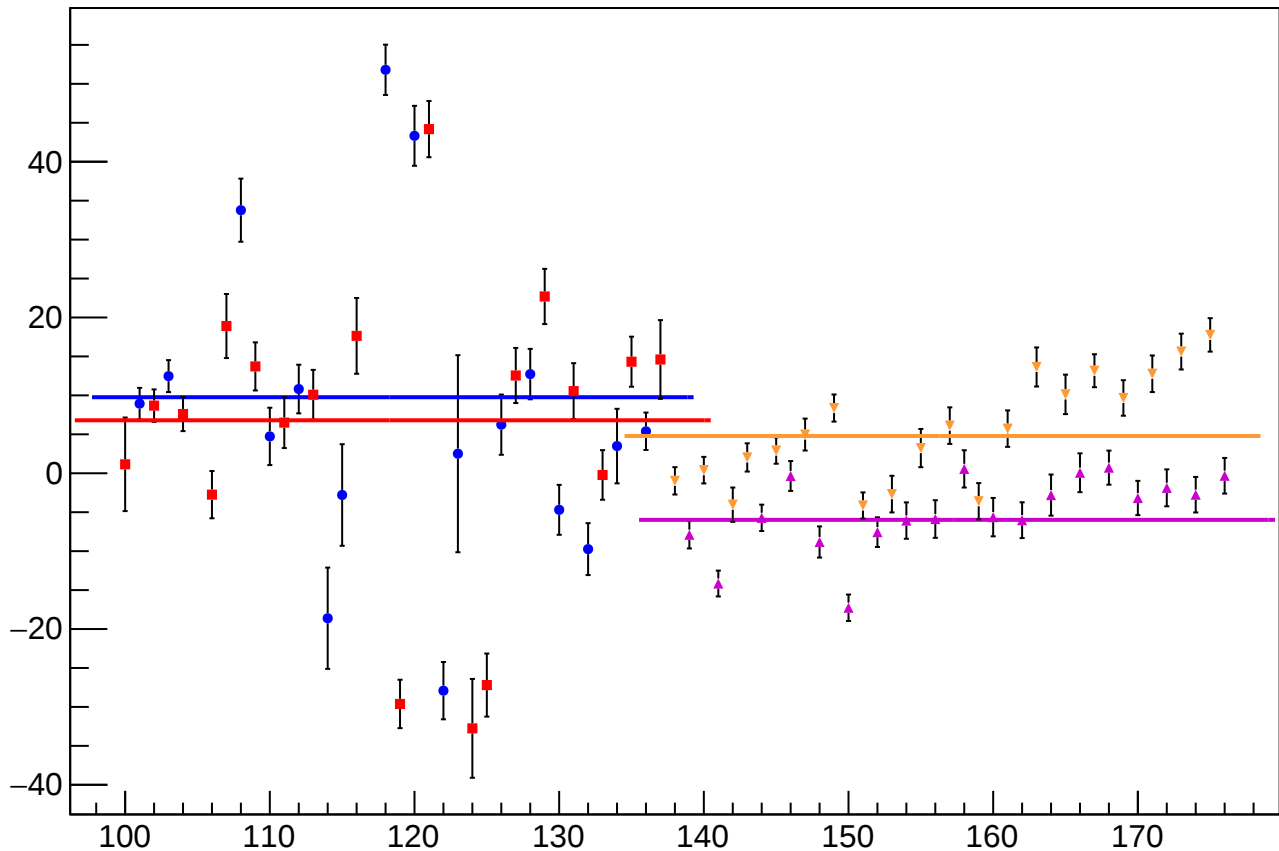
Right: 6118.133 ± 1.170 $\chi^2/\text{NDF}: 334424.9/35$

In: 6261.533 ± 0.965 $\chi^2/\text{NDF}: 370352.2/35$

Out: 6187.674 ± 0.936 $\chi^2/\text{NDF}: 332283.3/38$

All: 6223.470 ± 0.672 $\chi^2/\text{NDF}: 705656.1/74$

diff_bpm0l05Y_mean vs Slug, Sign Corrected



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

Left Out: 4.786 ± 0.463 $\chi^2/\text{NDF}: 200.6/19$

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: -0.409 ± 0.333 $\chi^2/\text{NDF}: 579.6/38$

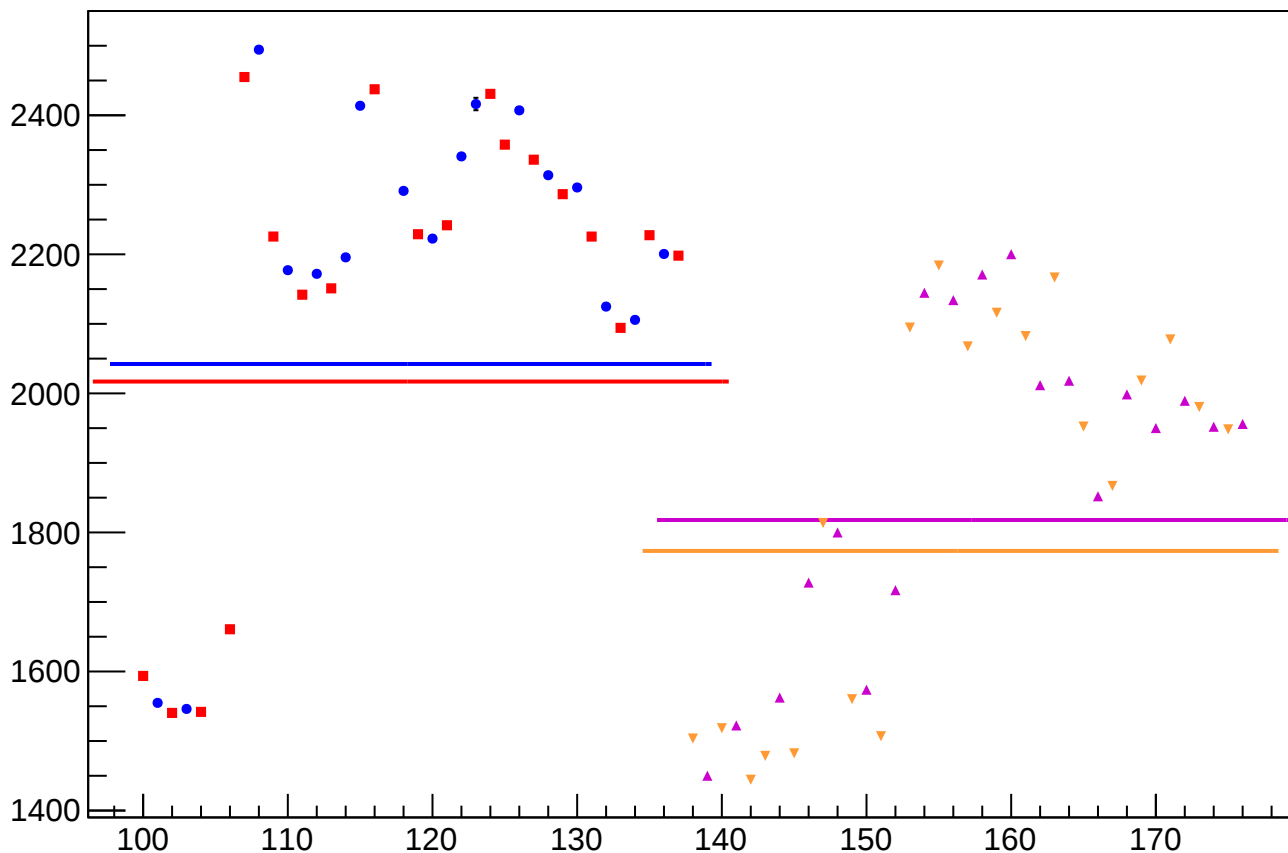
Right: 8.222 ± 0.552 $\chi^2/\text{NDF}: 902.8/35$

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

Out: 5.327 ± 0.396 $\chi^2/\text{NDF}: 627.6/38$

All: 1.897 ± 0.285 $\chi^2/\text{NDF}: 1661.7/74$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1773.420 $\pm$ 0.327 χ^2 /NDF: 681667.9/19

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: 1794.880 $\pm$ 0.236 χ^2 /NDF: 1175570.2/38

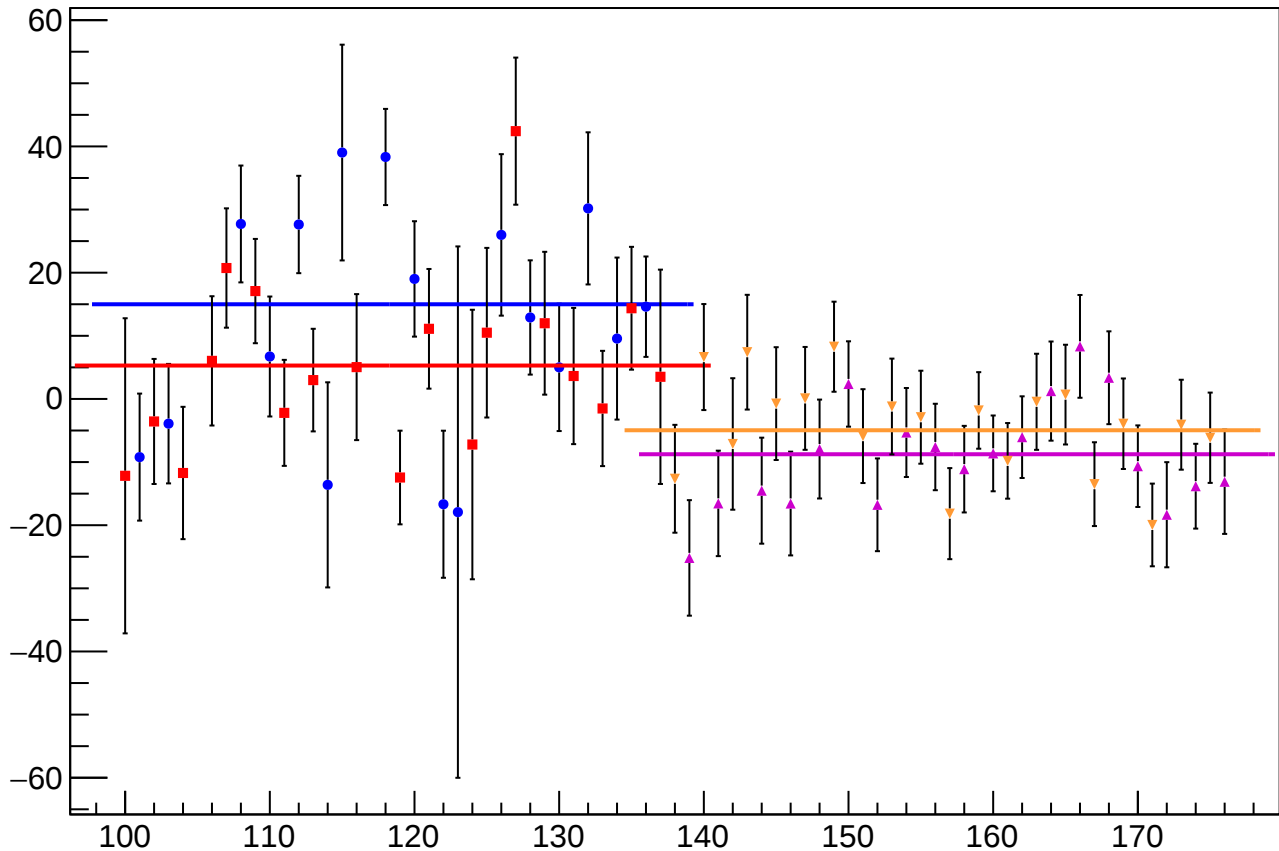
Right: 2029.129 $\pm$ 0.390 χ^2 /NDF: 733495.1/35

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

Out: 1838.790 $\pm$ 0.280 χ^2 /NDF: 1205776.1/38

All: 1857.470 $\pm$ 0.202 χ^2 /NDF: 2173227.6/74

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

Left Out: -4.960 ± 1.660 $\chi^2/\text{NDF}: 21.1/19$

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: -6.829 ± 1.183 $\chi^2/\text{NDF}: 44.6/38$

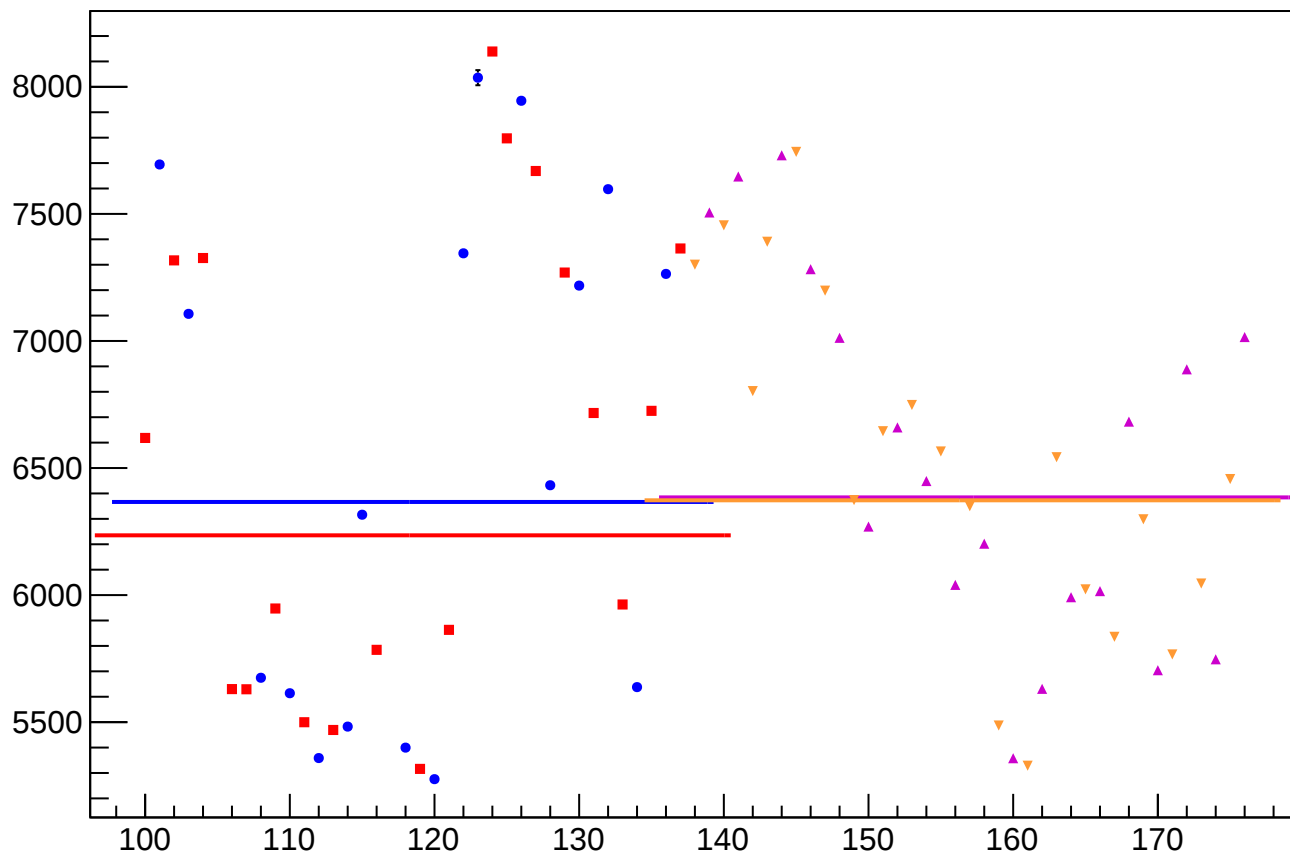
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

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

Out: -1.561 ± 1.358 $\chi^2/\text{NDF}: 61.8/38$

All: -1.417 ± 0.973 $\chi^2/\text{NDF}: 186.6/74$

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6372.982 ± 1.174 $\chi^2/\text{NDF}: 305229.6/19$

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: 6378.613 ± 0.837 $\chi^2/\text{NDF}: 636341.0/38$

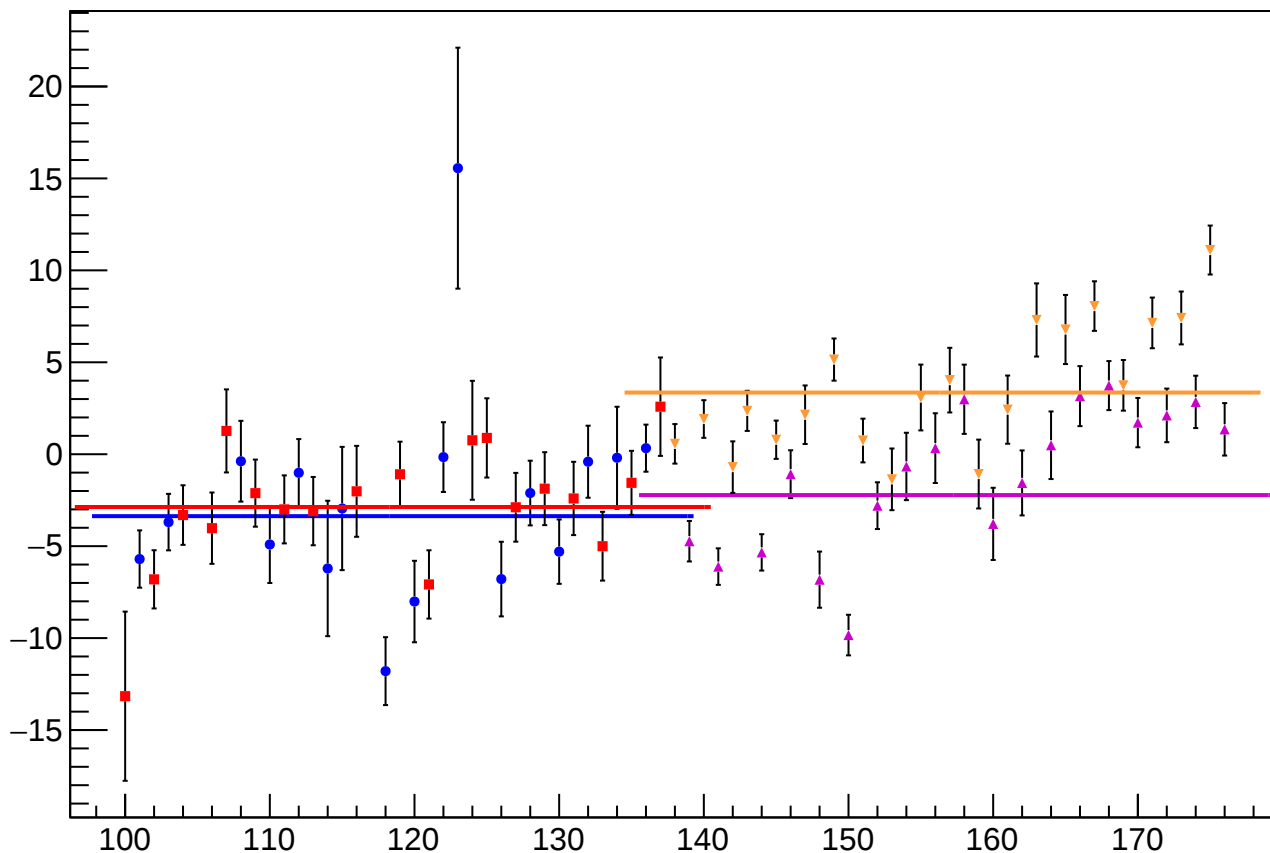
Right: 6297.369 ± 1.209 $\chi^2/\text{NDF}: 532637.5/35$

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

Out: 6327.285 ± 0.960 $\chi^2/\text{NDF}: 553001.4/38$

All: 6352.310 ± 0.688 $\chi^2/\text{NDF}: 1172030.2/74$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

Left Out: 3.355 ± 0.306 χ^2/NDF : 114.7/19

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

Left In: -2.222 ± 0.316 χ^2/NDF : 168.4/18

Left: 0.661 ± 0.220 χ^2/NDF : 444.0/38

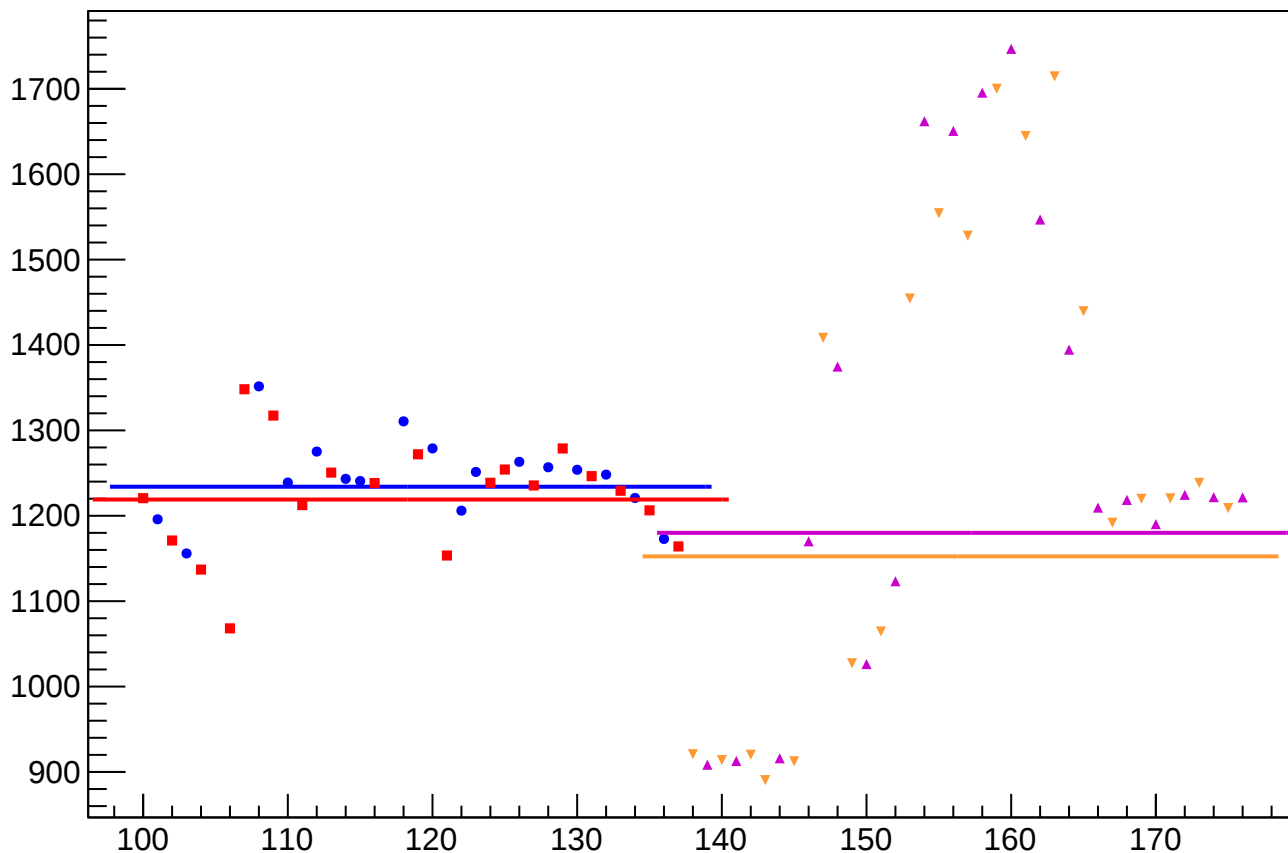
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -2.573 ± 0.263 χ^2/NDF : 232.4/35

Out: 1.428 ± 0.254 χ^2/NDF : 275.2/38

All: -0.500 ± 0.183 χ^2/NDF : 627.2/74

diff_bpm0l06Y_rms vs Slug, Sign Corrected



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

Left Out: 1152.422 $\pm$ 0.216 χ^2 /NDF: 1361962.1/19

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

Left In: 1180.027 $\pm$ 0.224 χ^2 /NDF: 1183836.7/18

Left: 1165.755 $\pm$ 0.155 χ^2 /NDF: 2553680.6/38

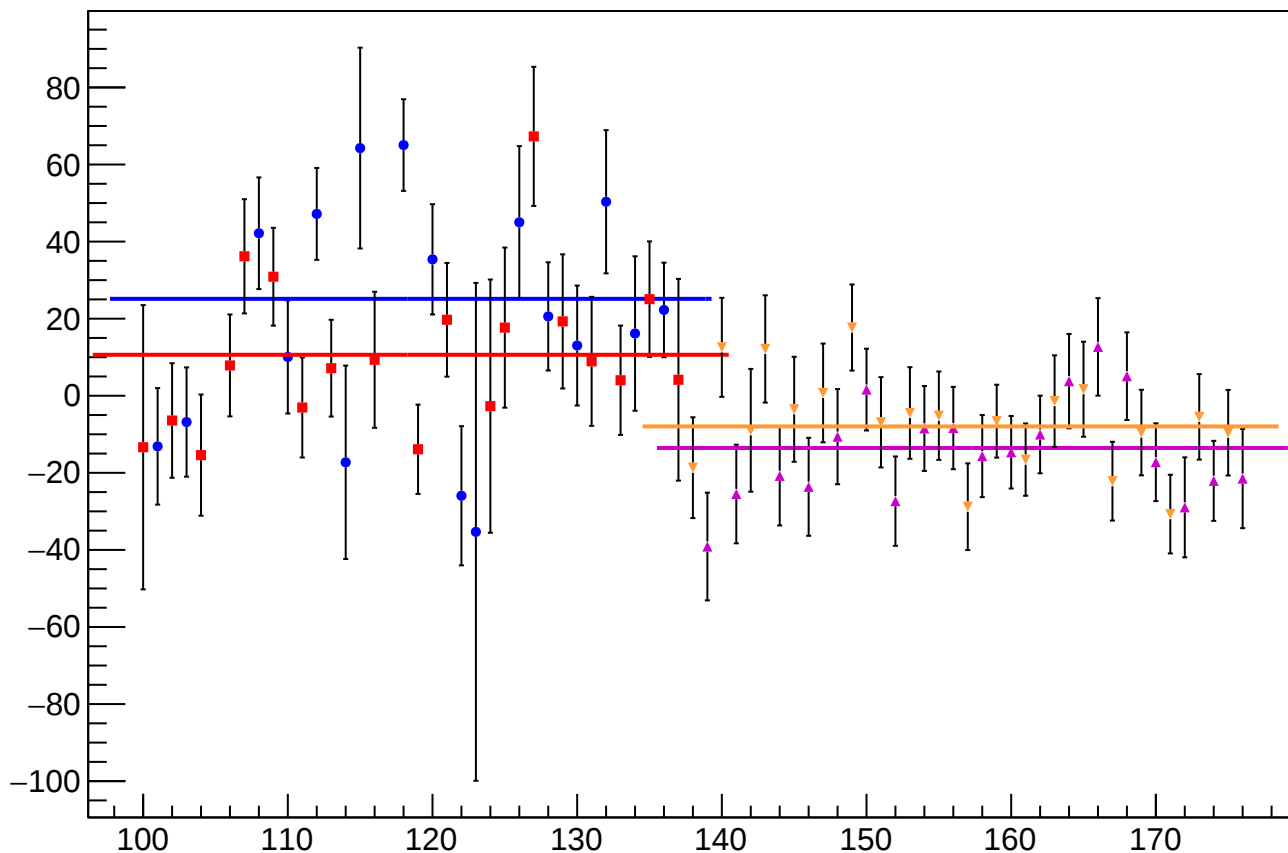
Right: 1226.229 $\pm$ 0.233 χ^2 /NDF: 64970.2/35

In: 1196.584 $\pm$ 0.186 χ^2 /NDF: 1225289.2/35

Out: 1173.044 $\pm$ 0.180 χ^2 /NDF: 1431753.7/38

All: 1184.388 $\pm$ 0.129 χ^2 /NDF: 2665325.0/74

diff_bpm0l07X_mean vs Slug, Sign Corrected



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

Left Out: -7.958 ± 2.581 $\chi^2/\text{NDF}: 23.5/19$

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

Left In: -13.548 ± 2.626 $\chi^2/\text{NDF}: 20.9/18$

Left: -10.705 ± 1.841 $\chi^2/\text{NDF}: 46.7/38$

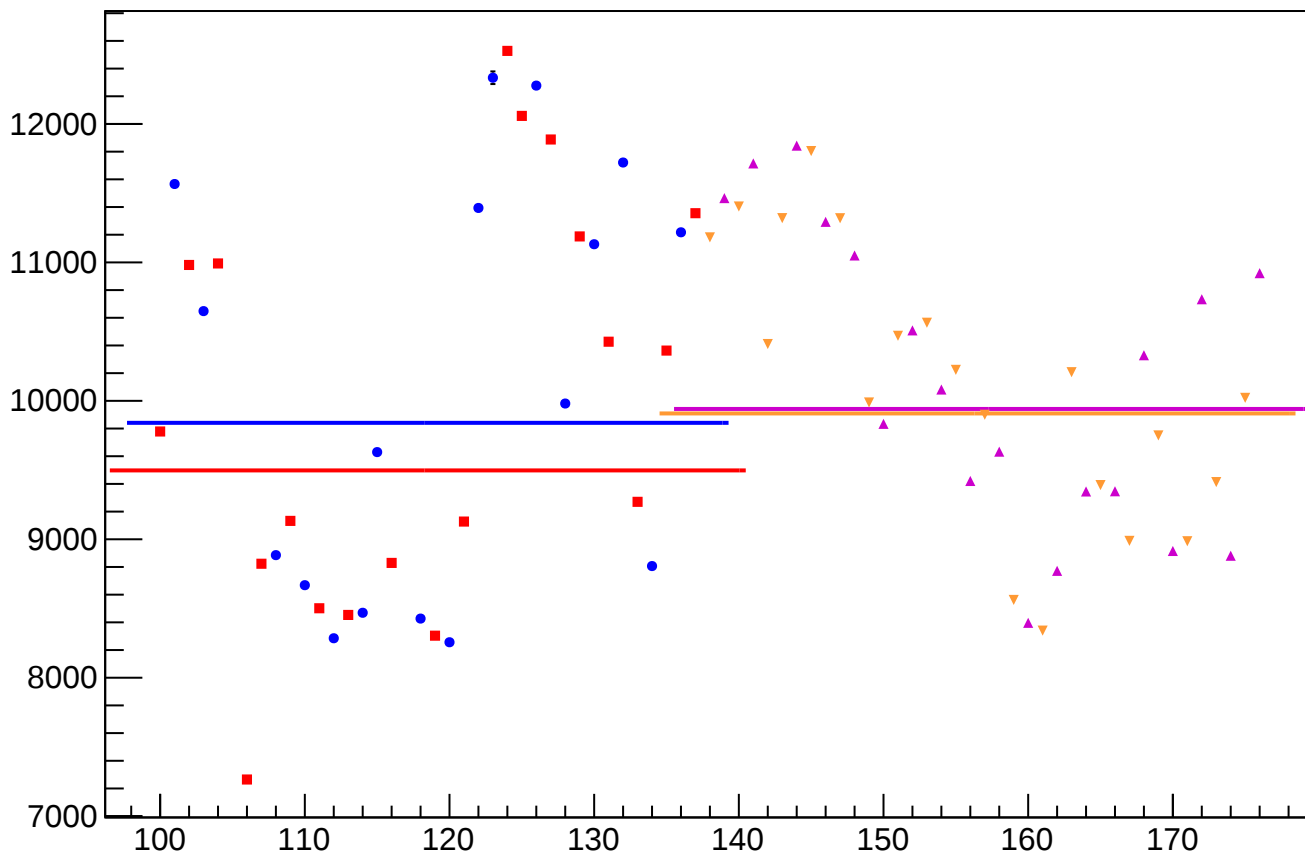
Right: 17.418 ± 2.623 $\chi^2/\text{NDF}: 82.3/35$

In: -1.207 ± 2.167 $\chi^2/\text{NDF}: 137.1/35$

Out: -1.633 ± 2.097 $\chi^2/\text{NDF}: 68.9/38$

All: -1.427 ± 1.507 $\chi^2/\text{NDF}: 206.0/74$

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 9908.988 $\pm$ 1.825 χ^2/NDF : 282216.8/19

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: 9924.934 $\pm$ 1.302 χ^2/NDF : 591710.8/38

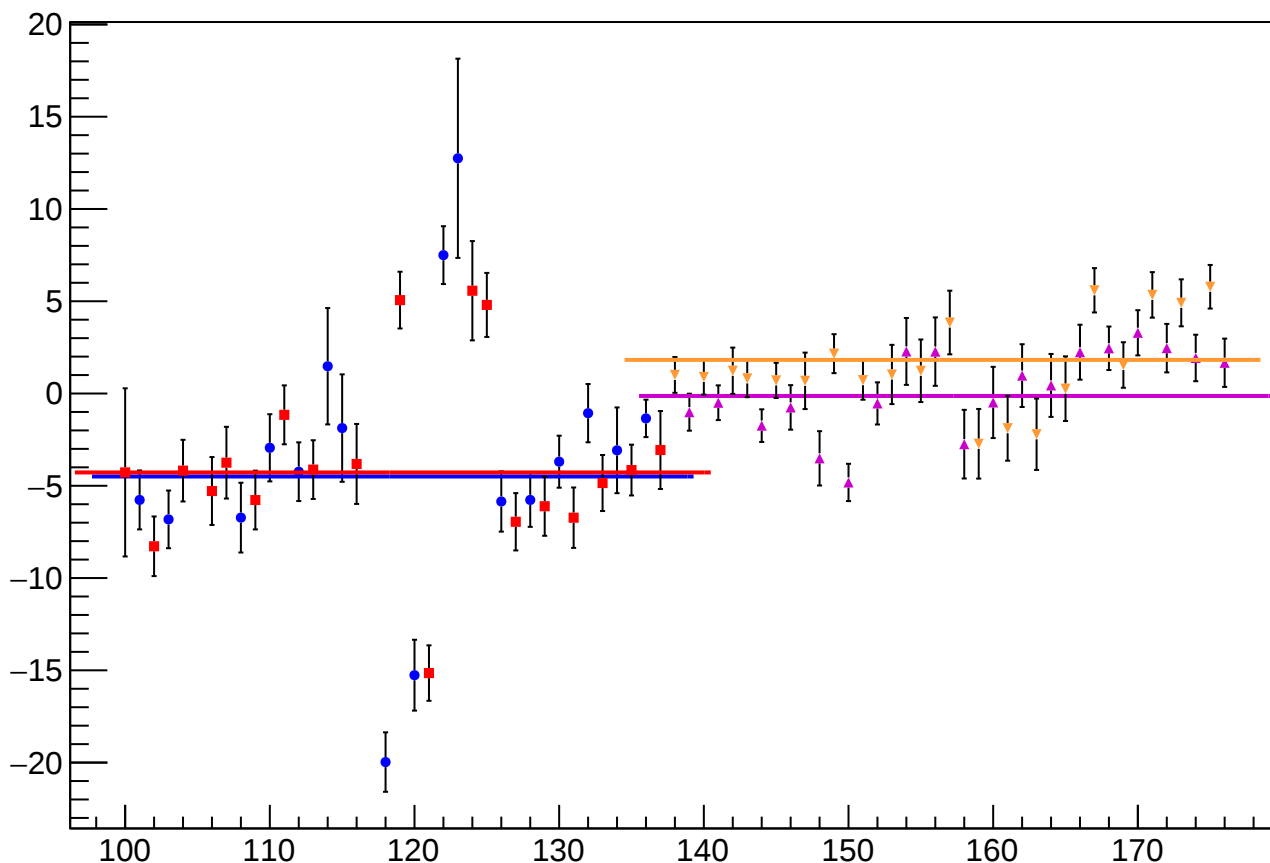
Right: 9658.117 $\pm$ 1.855 χ^2/NDF : 545307.6/35

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

Out: 9769.007 $\pm$ 1.482 χ^2/NDF : 576211.0/38

All: 9836.913 $\pm$ 1.065 χ^2/NDF : 1150881.7/74

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 1.823 ± 0.281 χ^2/NDF : 58.2/19

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: 0.881 ± 0.202 χ^2/NDF : 142.6/38

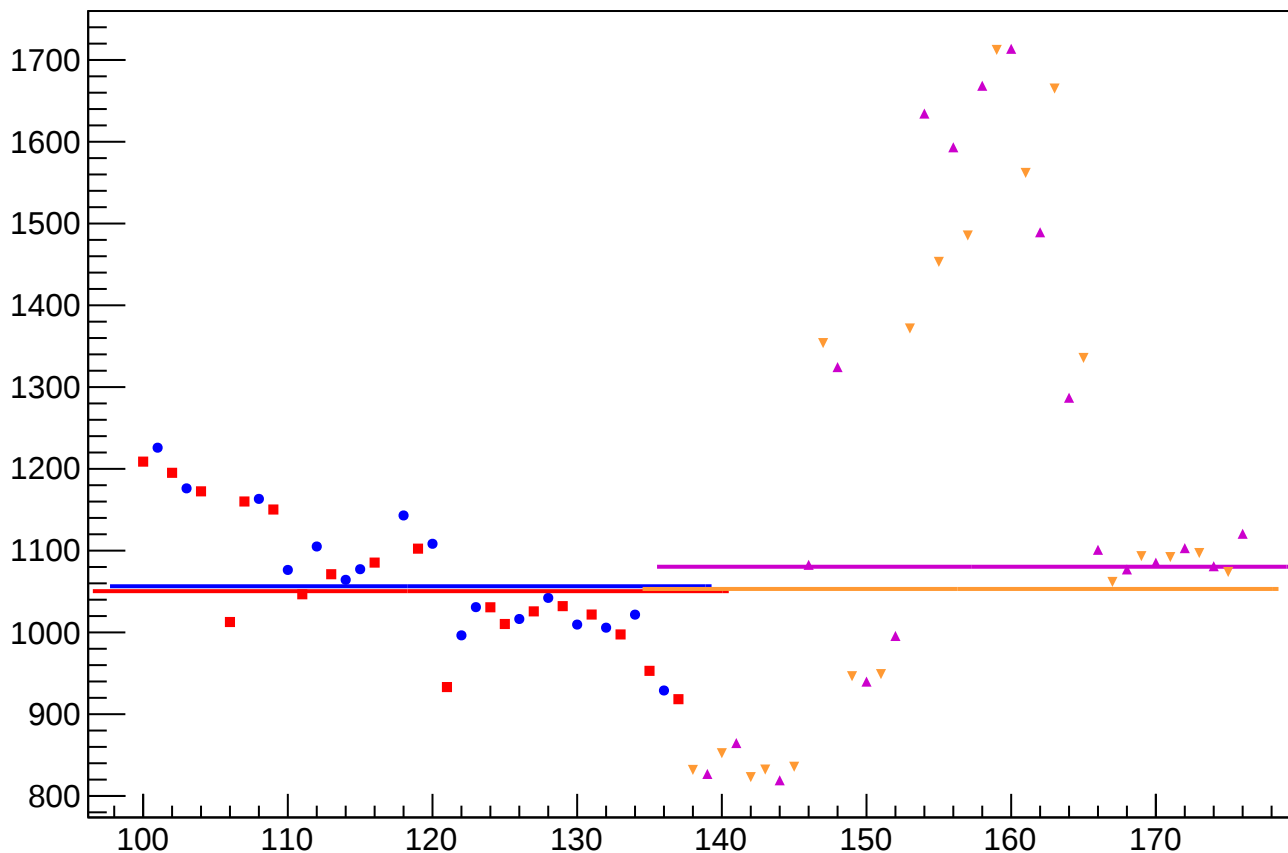
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -1.606 ± 0.237 χ^2/NDF : 355.1/35

Out: -0.233 ± 0.229 χ^2/NDF : 365.4/38

All: -0.894 ± 0.165 χ^2/NDF : 737.9/74

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1053.153 $\pm$ 0.199 χ^2/NDF : 1561216.5/19

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: 1066.229 $\pm$ 0.143 χ^2/NDF : 2985356.8/38

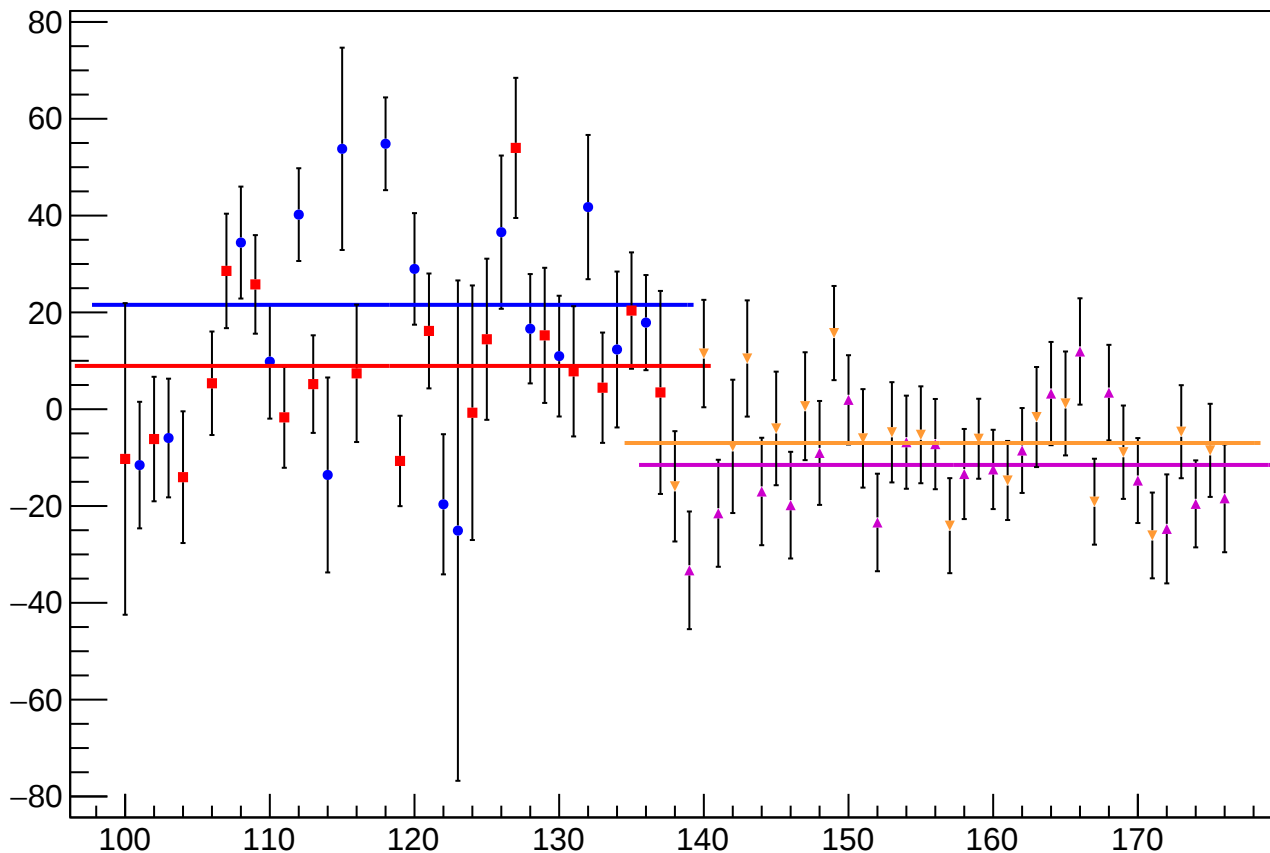
Right: 1053.333 $\pm$ 0.200 χ^2/NDF : 173392.8/35

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

Out: 1052.240 $\pm$ 0.162 χ^2/NDF : 1643675.8/38

All: 1061.879 $\pm$ 0.116 χ^2/NDF : 3161493.1/74

diff_bpm0l08X_mean vs Slug, Sign Corrected



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

Left Out: -6.980 $\pm$ 2.243 χ^2 /NDF:23.0/19

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

Left In: -11.513 $\pm$ 2.282 χ^2 /NDF:20.5/18

Left: -9.207 $\pm$ 1.600 χ^2 /NDF: 45.5/38

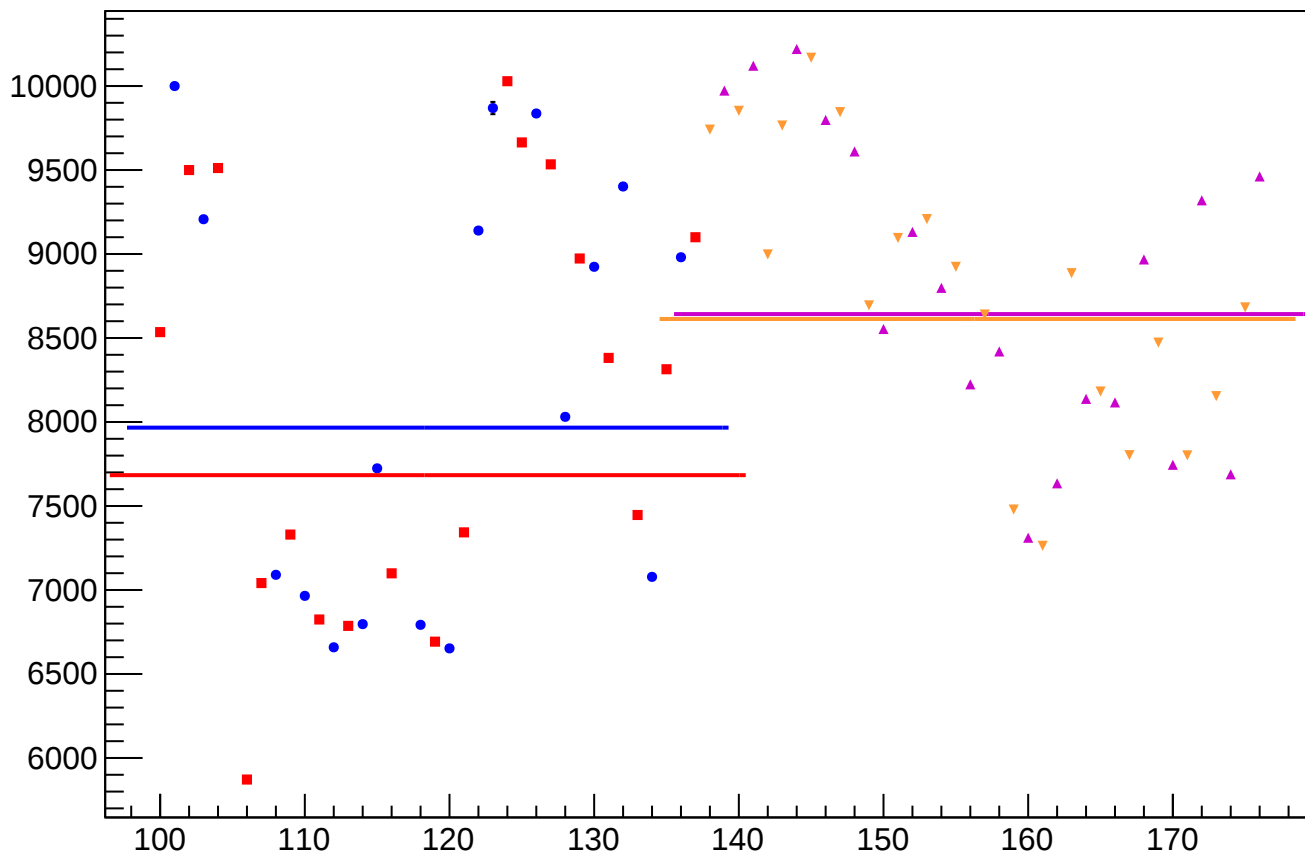
Right: 14.837 $\pm$ 2.126 χ^2 /NDF: 84.6/35

In: 0.062 $\pm$ 1.840 χ^2 /NDF:142.4/35

Out: -1.050 $\pm$ 1.777 χ^2 /NDF:69.2/38

All: -0.513 $\pm$ 1.278 χ^2 /NDF: 211.8/74

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8613.215 $\pm$ 1.586 χ^2 /NDF: 272746.8/19

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

Left In: 8642.460 $\pm$ 1.614 χ^2 /NDF: 300941.8/18

Left: 8627.585 $\pm$ 1.131 χ^2 /NDF: 573855.7/38

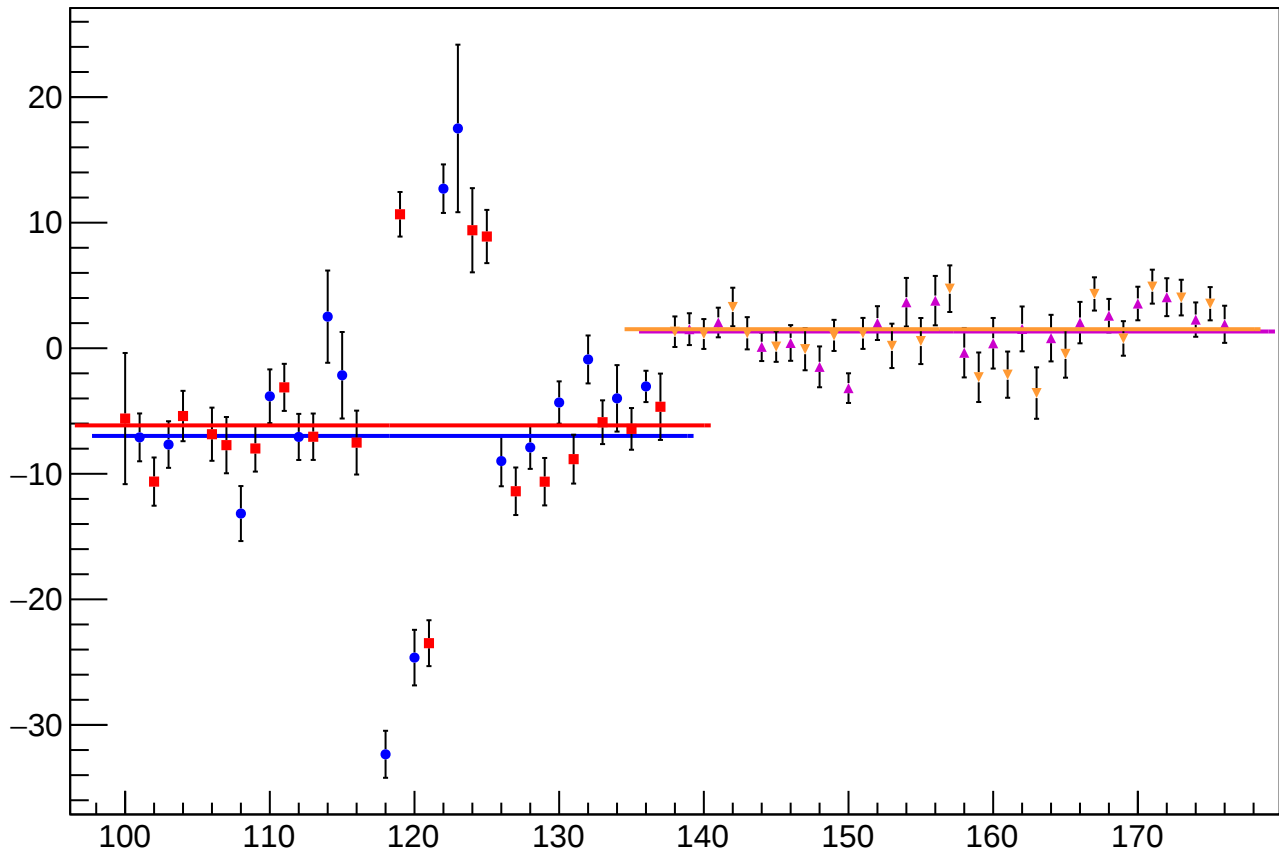
Right: 7815.627 $\pm$ 1.503 χ^2 /NDF: 620463.8/35

In: 8405.865 $\pm$ 1.301 χ^2 /NDF: 658973.3/35

Out: 8266.976 $\pm$ 1.257 χ^2 /NDF: 715743.9/38

All: 8334.001 $\pm$ 0.904 χ^2 /NDF: 1380613.3/74

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 1.516 ± 0.325 χ^2/NDF : 39.2/19

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

Left In: 1.332 ± 0.337 χ^2/NDF : 31.6/18

Left: 1.427 ± 0.234 χ^2/NDF : 71.0/38

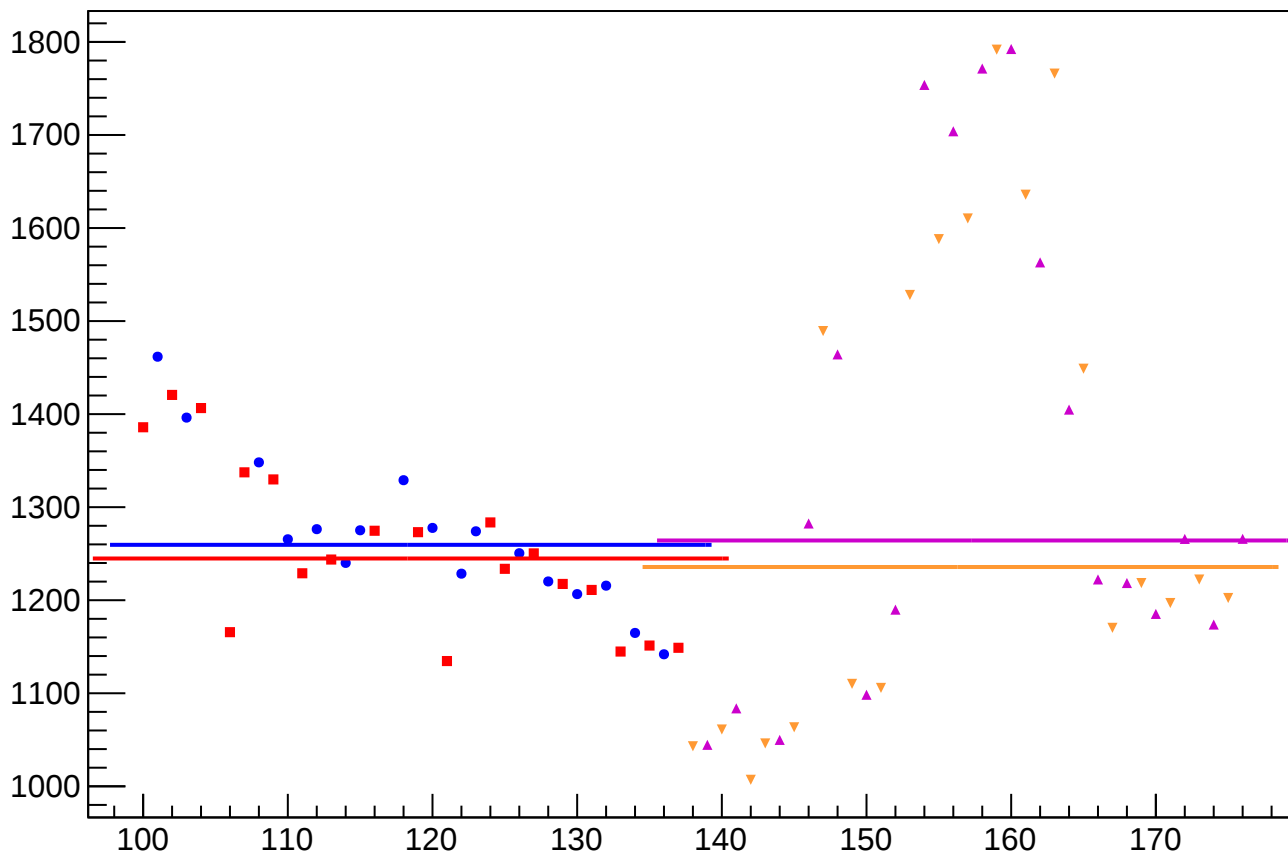
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -1.365 ± 0.277 χ^2/NDF : 637.8/35

Out: -0.991 ± 0.267 χ^2/NDF : 498.0/38

All: -1.171 ± 0.192 χ^2/NDF : 1136.8/74

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1235.701 ± 0.230 $\chi^2/\text{NDF}: 940648.5/19$

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

Left In: 1264.203 ± 0.238 $\chi^2/\text{NDF}: 839442.3/18$

Left: 1249.461 ± 0.165 $\chi^2/\text{NDF}: 1787497.3/38$

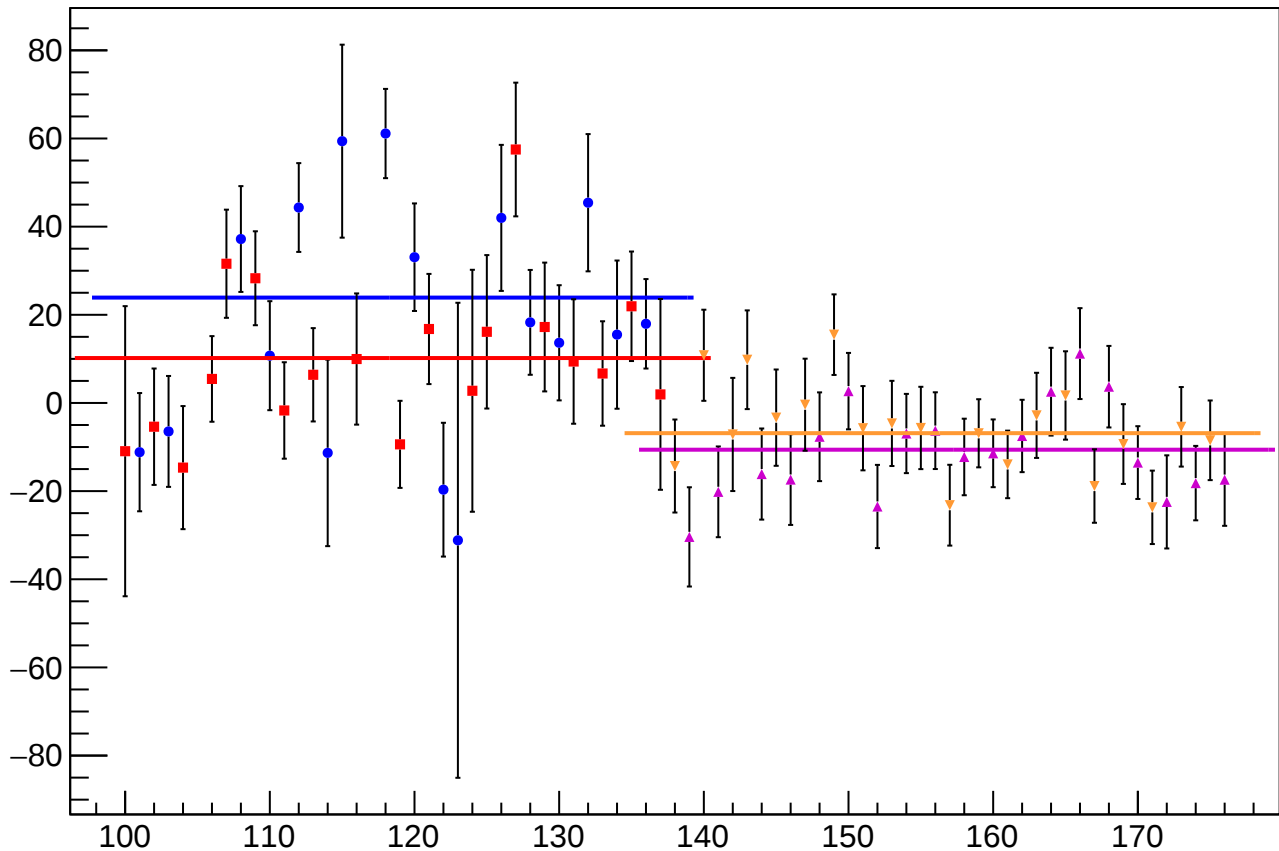
Right: 1251.883 ± 0.238 $\chi^2/\text{NDF}: 132621.3/35$

In: 1262.688 ± 0.196 $\chi^2/\text{NDF}: 904411.6/35$

Out: 1238.690 ± 0.189 $\chi^2/\text{NDF}: 1007990.2/38$

All: 1250.250 ± 0.136 $\chi^2/\text{NDF}: 1920188.4/74$

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

Left Out: -6.852 ± 2.099 $\chi^2/\text{NDF}: 23.4/19$

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: -8.695 ± 1.497 $\chi^2/\text{NDF}: 45.8/38$

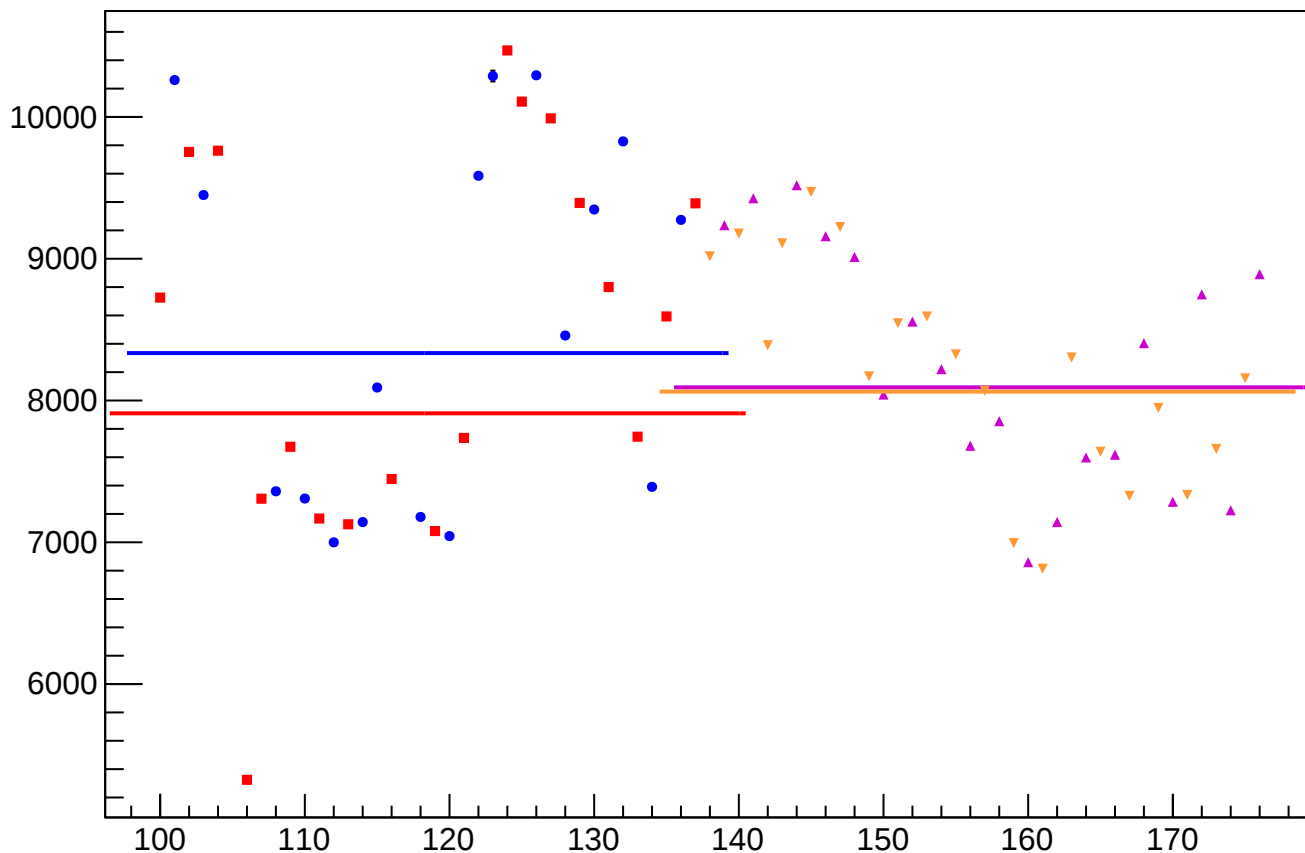
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

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

Out: -1.265 ± 1.721 $\chi^2/\text{NDF}: 73.0/38$

All: -0.749 ± 1.239 $\chi^2/\text{NDF}: 225.1/74$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8062.680 ± 1.484 χ^2/NDF : 260937.7/19

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

Left In: 8092.842 ± 1.511 χ^2/NDF : 290959.6/18

Left: 8077.495 ± 1.059 χ^2/NDF : 552100.2/38

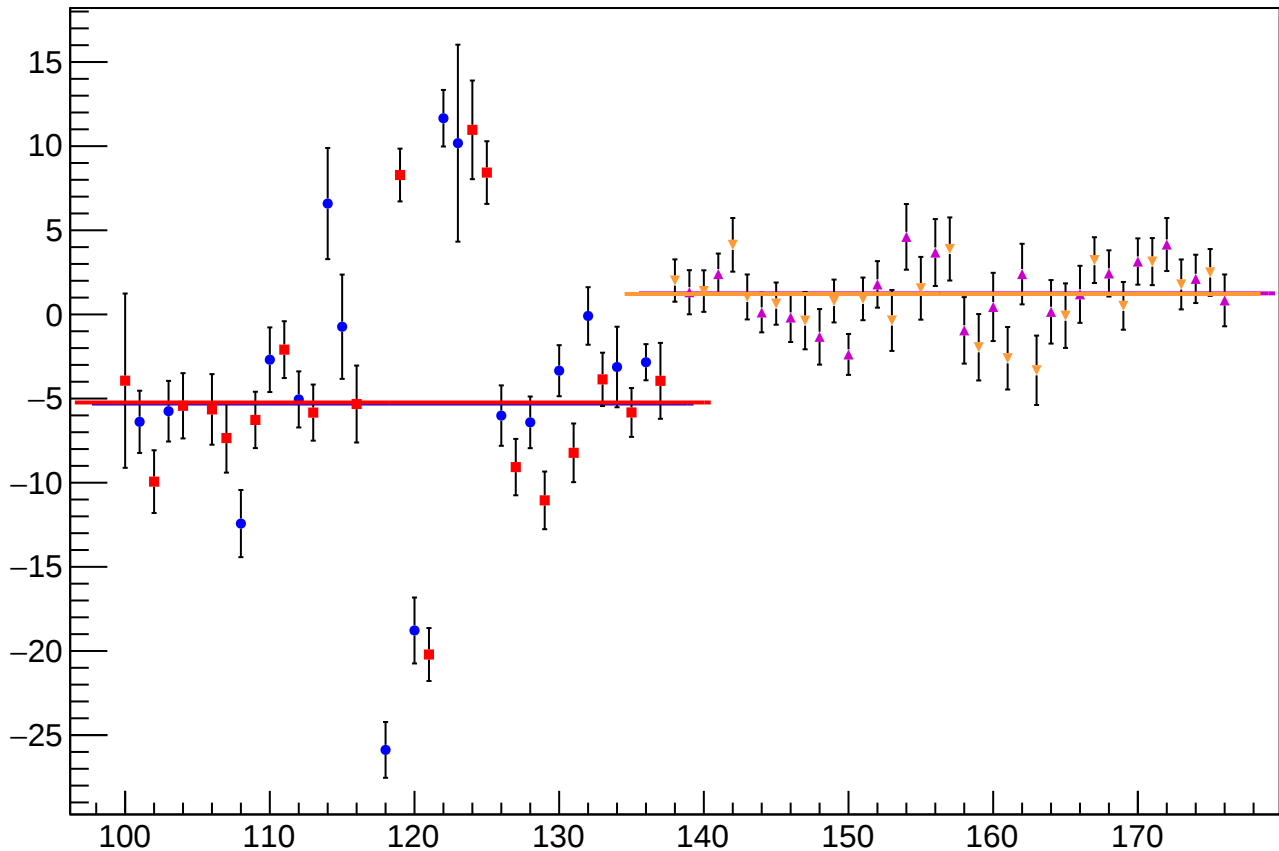
Right: 8105.450 ± 1.560 χ^2/NDF : 681543.4/35

In: 8165.747 ± 1.262 χ^2/NDF : 570981.8/35

Out: 8012.498 ± 1.217 χ^2/NDF : 655243.3/38

All: 8086.308 ± 0.876 χ^2/NDF : 1233863.4/74

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 1.215 ± 0.335 χ^2/NDF : 25.3/19

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: 1.233 ± 0.241 χ^2/NDF : 52.6/38

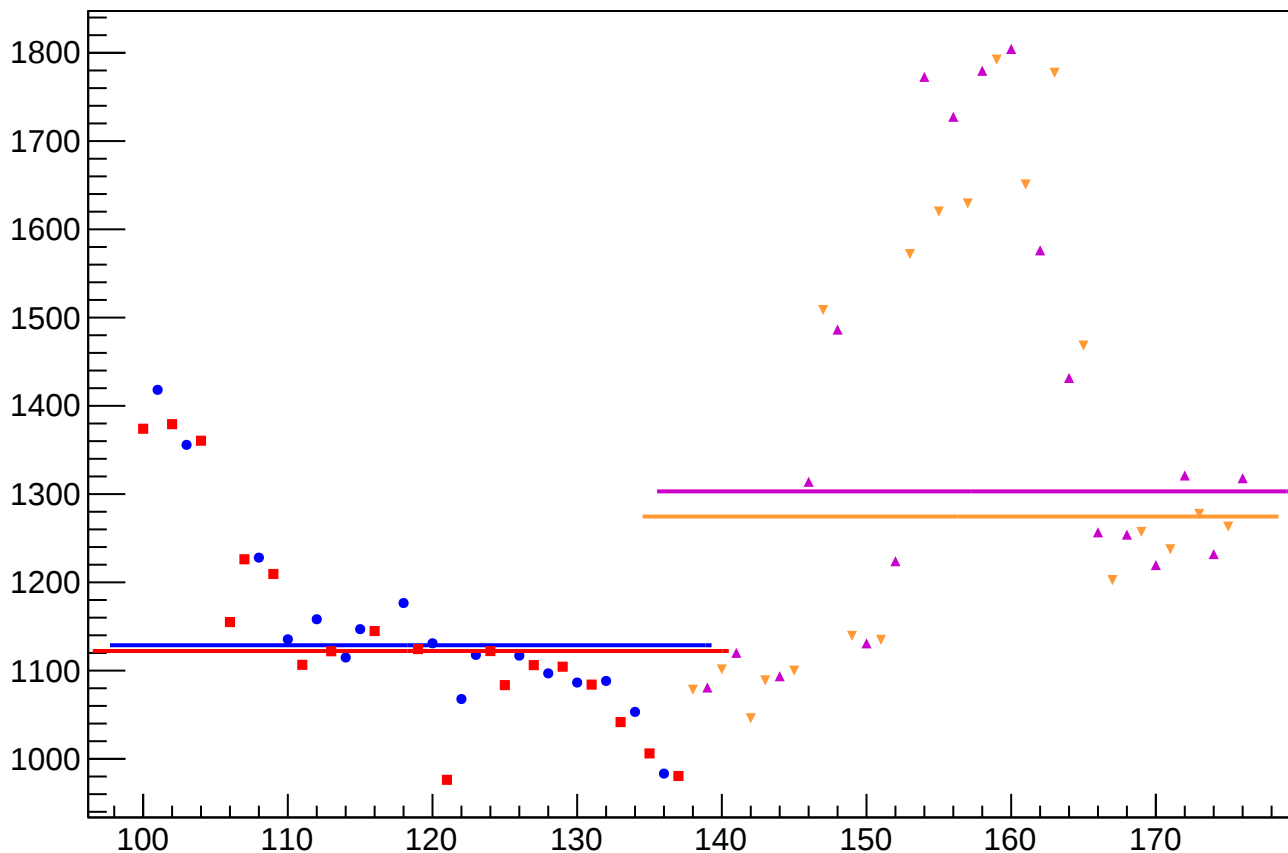
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -1.276 ± 0.271 χ^2/NDF : 523.3/35

Out: -1.279 ± 0.262 χ^2/NDF : 450.5/38

All: -1.278 ± 0.189 χ^2/NDF : 973.9/74

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1274.594 ± 0.237 $\chi^2/\text{NDF}: 852039.3/19$

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: 1288.360 ± 0.170 $\chi^2/\text{NDF}: 1613483.7/38$

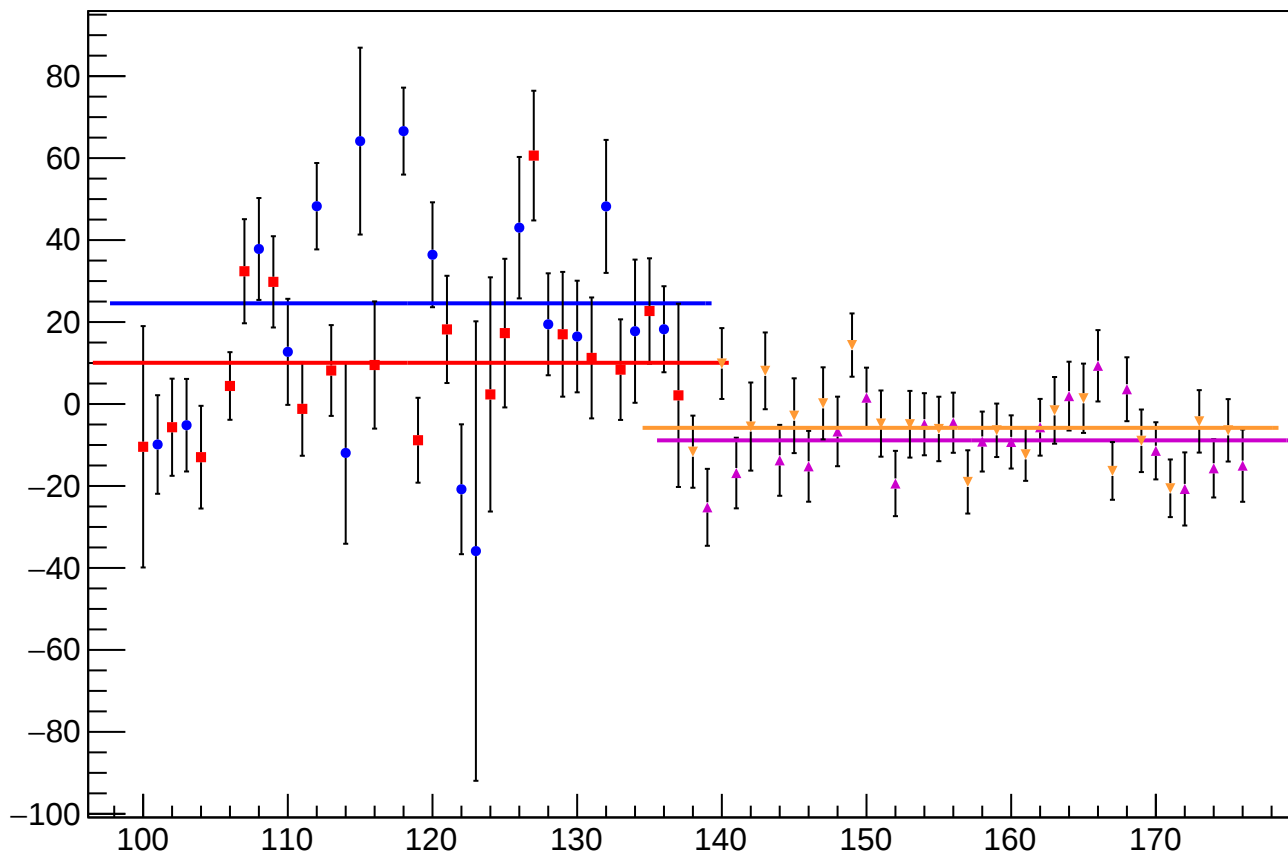
Right: 1125.374 ± 0.215 $\chi^2/\text{NDF}: 262927.9/35$

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

Out: 1215.652 ± 0.185 $\chi^2/\text{NDF}: 1141741.1/38$

All: 1225.363 ± 0.133 $\chi^2/\text{NDF}: 2230537.6/74$

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

Left Out: -5.815 ± 1.768 $\chi^2/\text{NDF}: 25.2/19$

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: -7.315 ± 1.261 $\chi^2/\text{NDF}: 47.9/38$

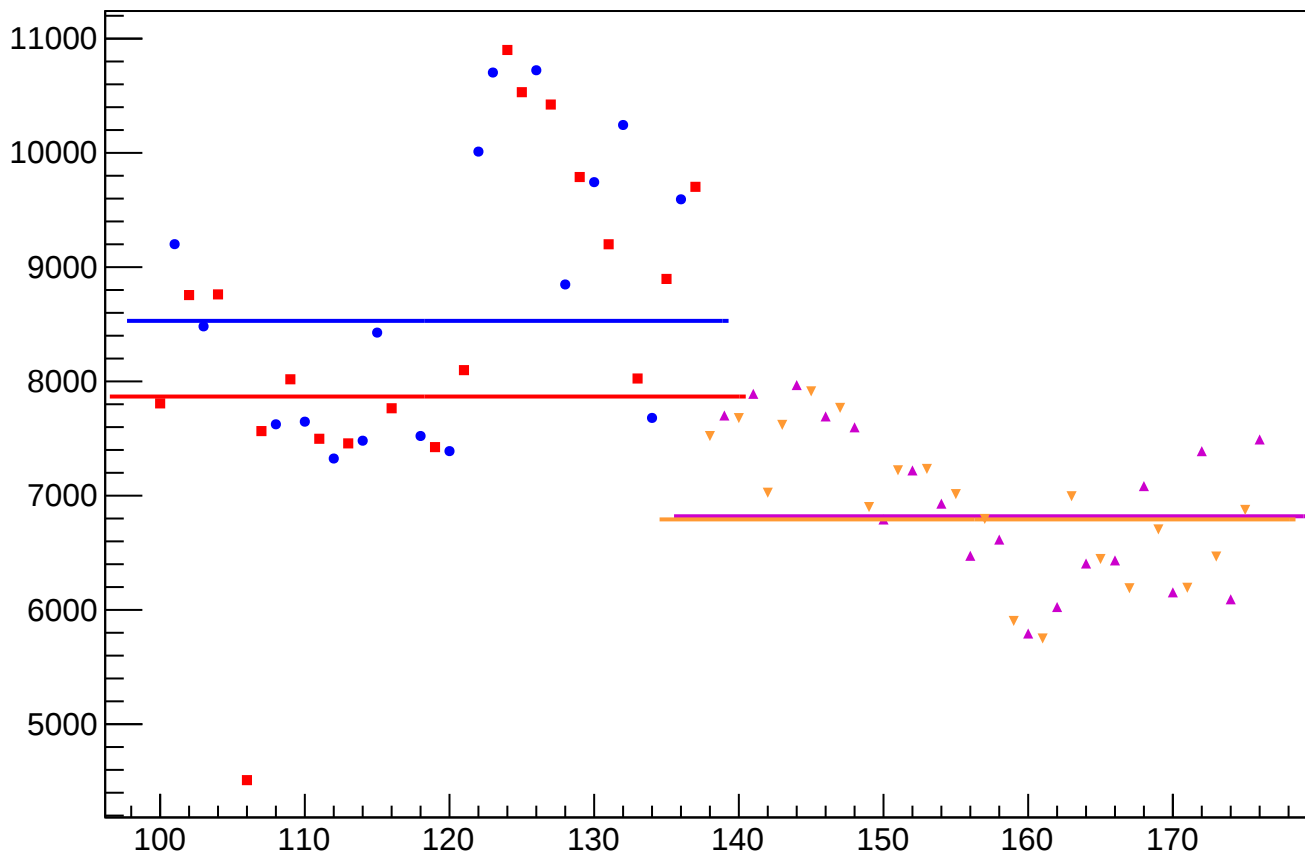
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

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

Out: -1.740 ± 1.524 $\chi^2/\text{NDF}: 74.7/38$

All: -1.513 ± 1.098 $\chi^2/\text{NDF}: 232.6/74$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.821 ± 2.346 $\chi^2/\text{NDF}: 208336.1/16$

Left Out: 6792.194 ± 1.250 $\chi^2/\text{NDF}: 246624.2/19$

Right Out: 7867.584 ± 2.127 $\chi^2/\text{NDF}: 555841.7/18$

Left In: 6819.675 ± 1.273 $\chi^2/\text{NDF}: 278892.8/18$

Left: 6805.688 ± 0.892 $\chi^2/\text{NDF}: 525754.3/38$

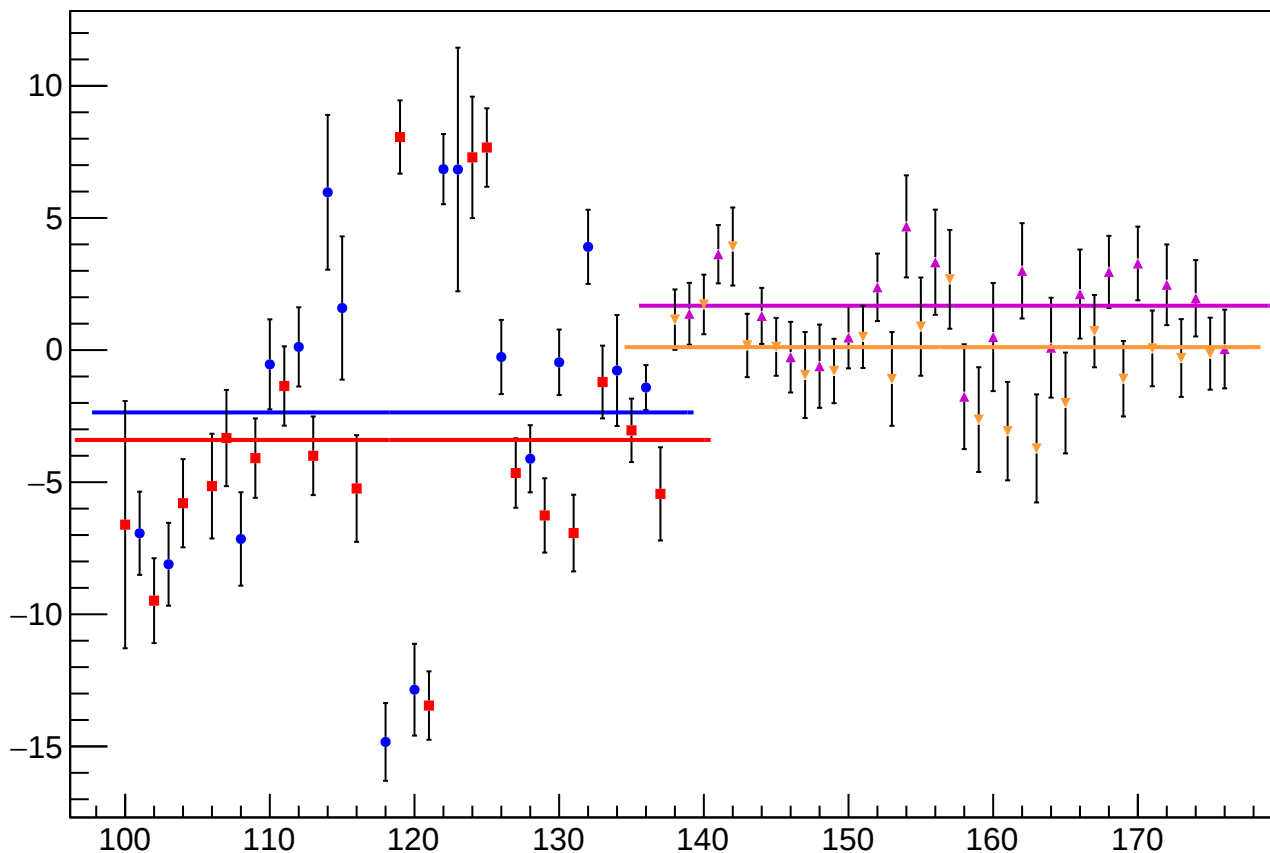
Right: 8166.253 ± 1.576 $\chi^2/\text{NDF}: 807907.7/35$

In: 7208.414 ± 1.119 $\chi^2/\text{NDF}: 897669.5/35$

Out: 7068.317 ± 1.078 $\chi^2/\text{NDF}: 992501.4/38$

All: 7135.747 ± 0.776 $\chi^2/\text{NDF}: 1898305.3/74$

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

Left Out: 0.112 ± 0.320 χ^2/NDF : 23.7/19

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: 0.867 ± 0.230 χ^2/NDF : 55.7/38

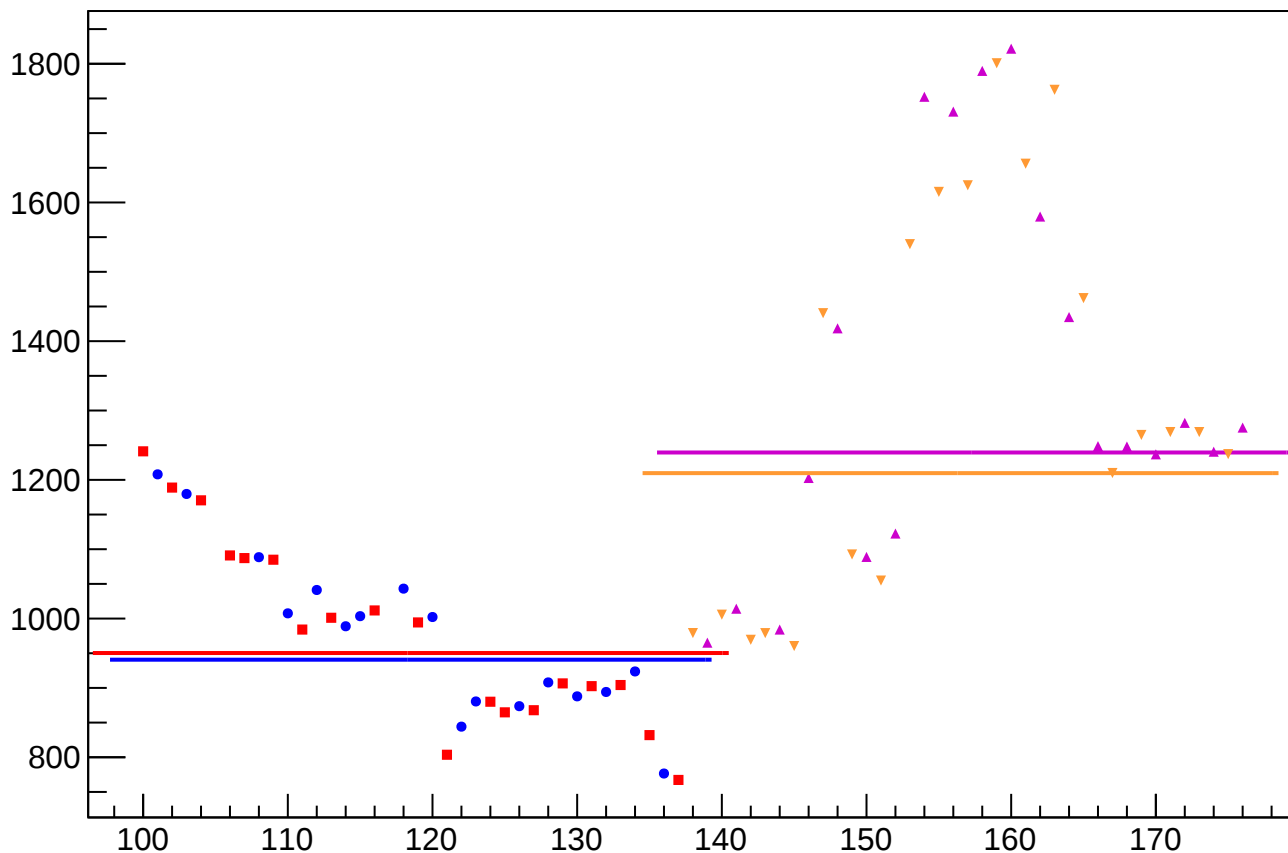
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.143 ± 0.246 χ^2/NDF : 319.4/35

Out: -1.447 ± 0.239 χ^2/NDF : 318.6/38

All: -0.814 ± 0.171 χ^2/NDF : 652.5/74

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.683+/-0.258 χ^2/NDF : 241768.4/16

Left Out: 1209.716+/-0.226 χ^2/NDF : 1217989.6/19

Right Out: 950.316+/-0.253 χ^2/NDF : 220678.1/18

Left In: 1239.475+/-0.234 χ^2/NDF : 1060017.0/18

Left: 1224.068+/-0.163 χ^2/NDF : 2286354.5/38

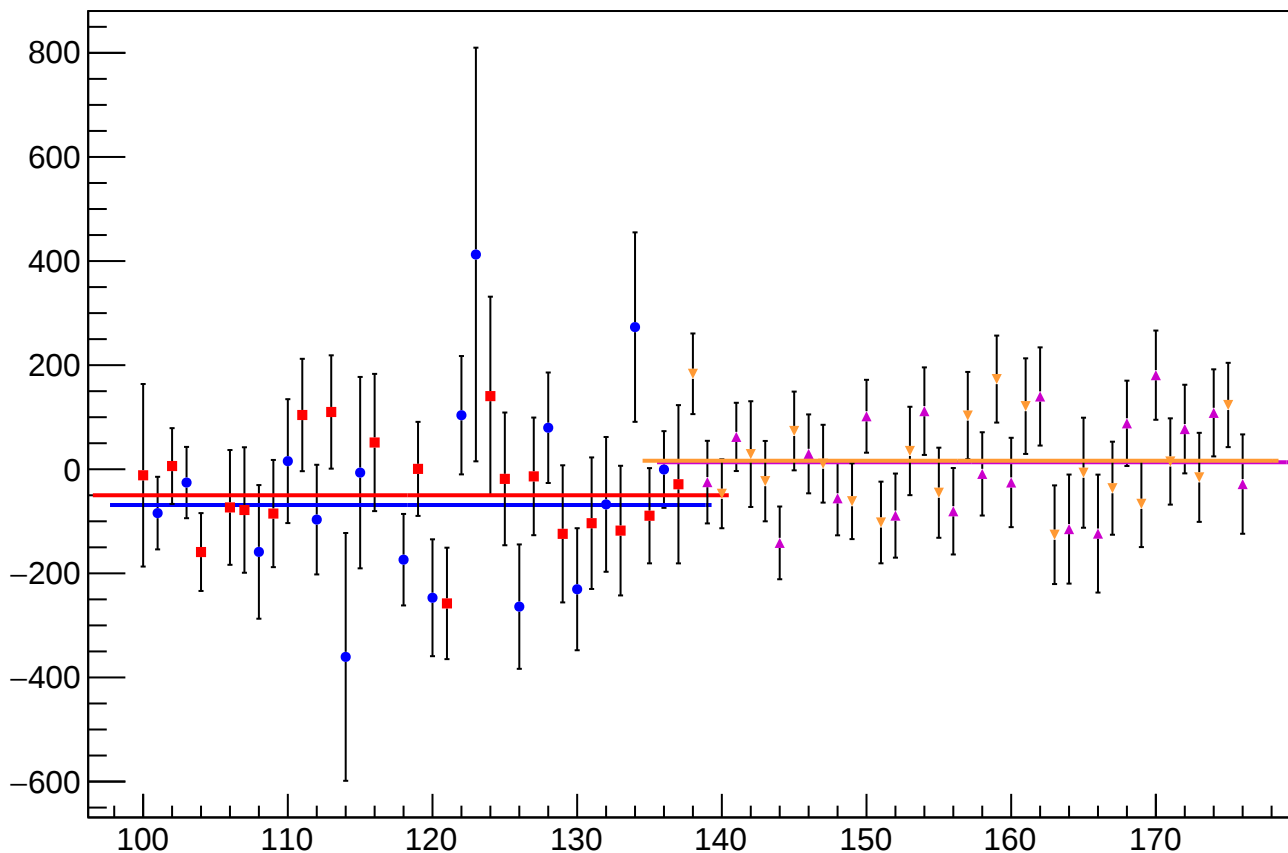
Right: 945.597+/-0.181 χ^2/NDF : 463155.1/35

In: 1104.668+/-0.174 χ^2/NDF : 2035138.8/35

Out: 1094.629+/-0.169 χ^2/NDF : 2022198.5/38

All: 1099.504+/-0.121 χ^2/NDF : 4059056.9/74

diff_bpm0r03X_mean vs Slug, Sign Corrected



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

Left Out: 16.368 $\pm$ 18.424 χ^2/NDF :21.8/19

Right Out: -49.958 $\pm$ 25.020 χ^2/NDF : 14.0/18

Left In: 13.444 $\pm$ 18.699 χ^2/NDF :24.3/18

Left: 14.928 $\pm$ 13.124 χ^2/NDF : 46.1/38

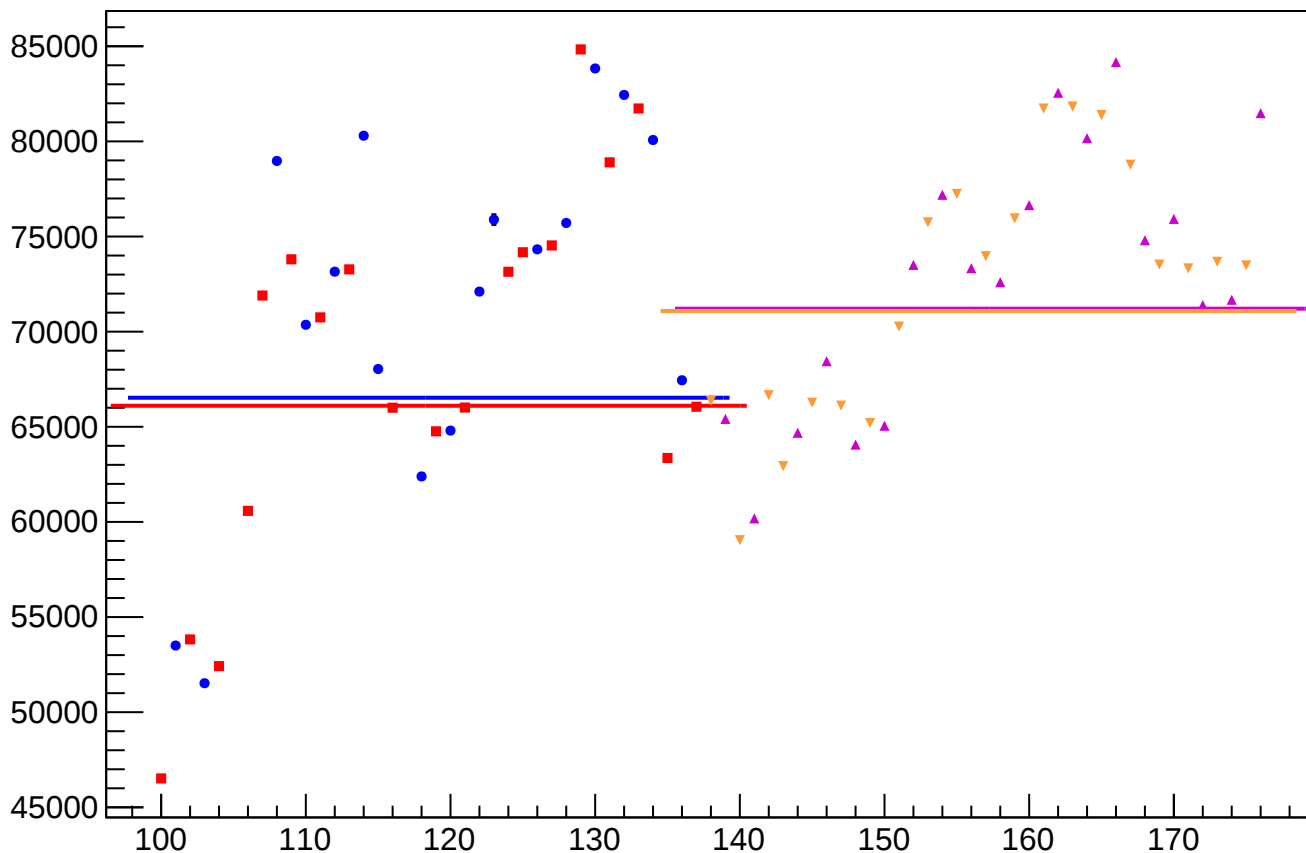
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -14.632 $\pm$ 15.170 χ^2/NDF :52.6/35

Out: -6.953 $\pm$ 14.836 χ^2/NDF :40.4/38

All: -10.707 $\pm$ 10.607 χ^2/NDF : 93.2/74

diff_bpm0r03X_rms vs Slug, Sign Corrected



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

Left Out: 71087.911+/-13.028 χ^2/NDF : 248415.5/19

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: 71146.687+/-9.280 χ^2/NDF : 495953.4/38

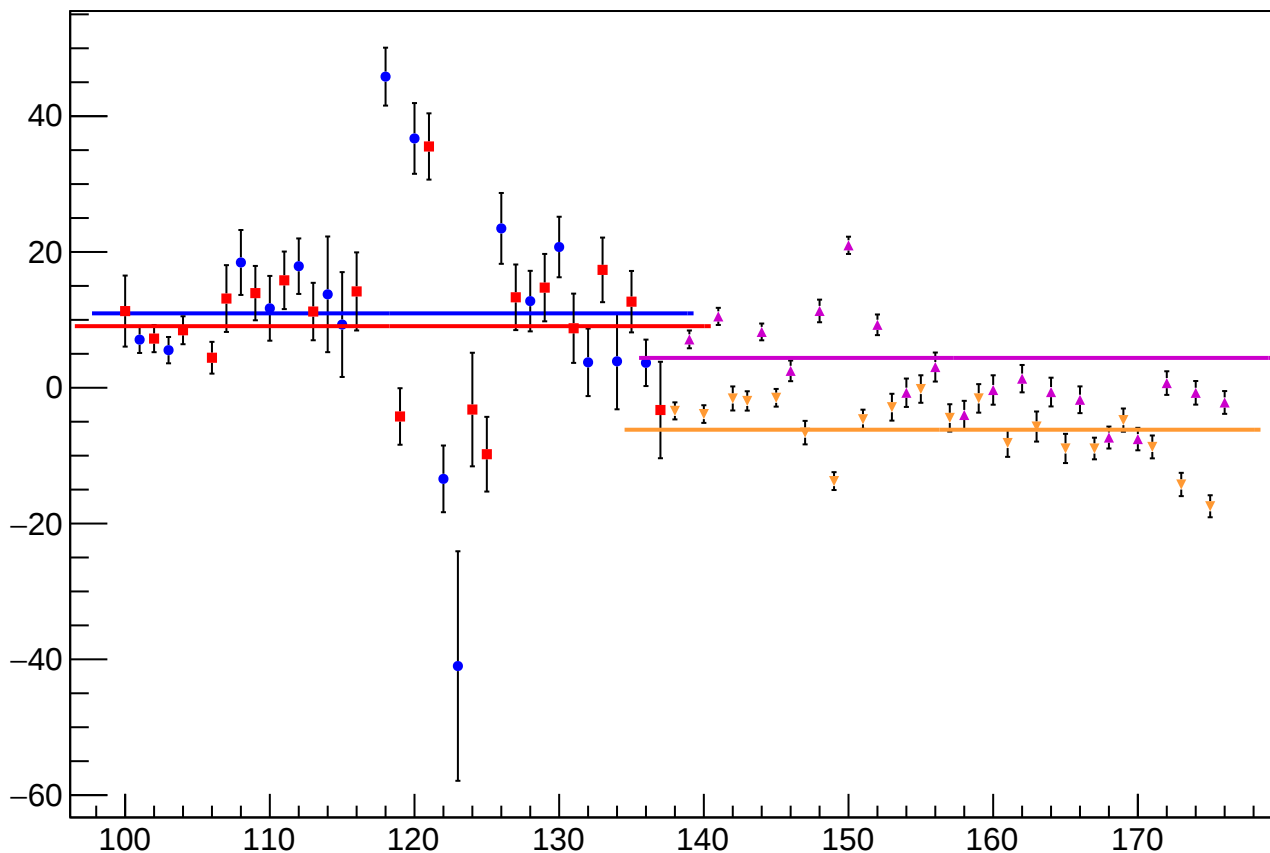
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 69607.430+/-10.727 χ^2/NDF : 611210.1/35

Out: 69336.187+/-10.490 χ^2/NDF : 598320.2/38

All: 69468.789+/-7.500 χ^2/NDF : 1209857.2/77

diff_bpm0r03Y_mean vs Slug, Sign Corrected



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

Left Out: -6.180 $\pm$ 0.366 χ^2/NDF : 167.1/19

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: -1.033 $\pm$ 0.262 χ^2/NDF : 989.8/38

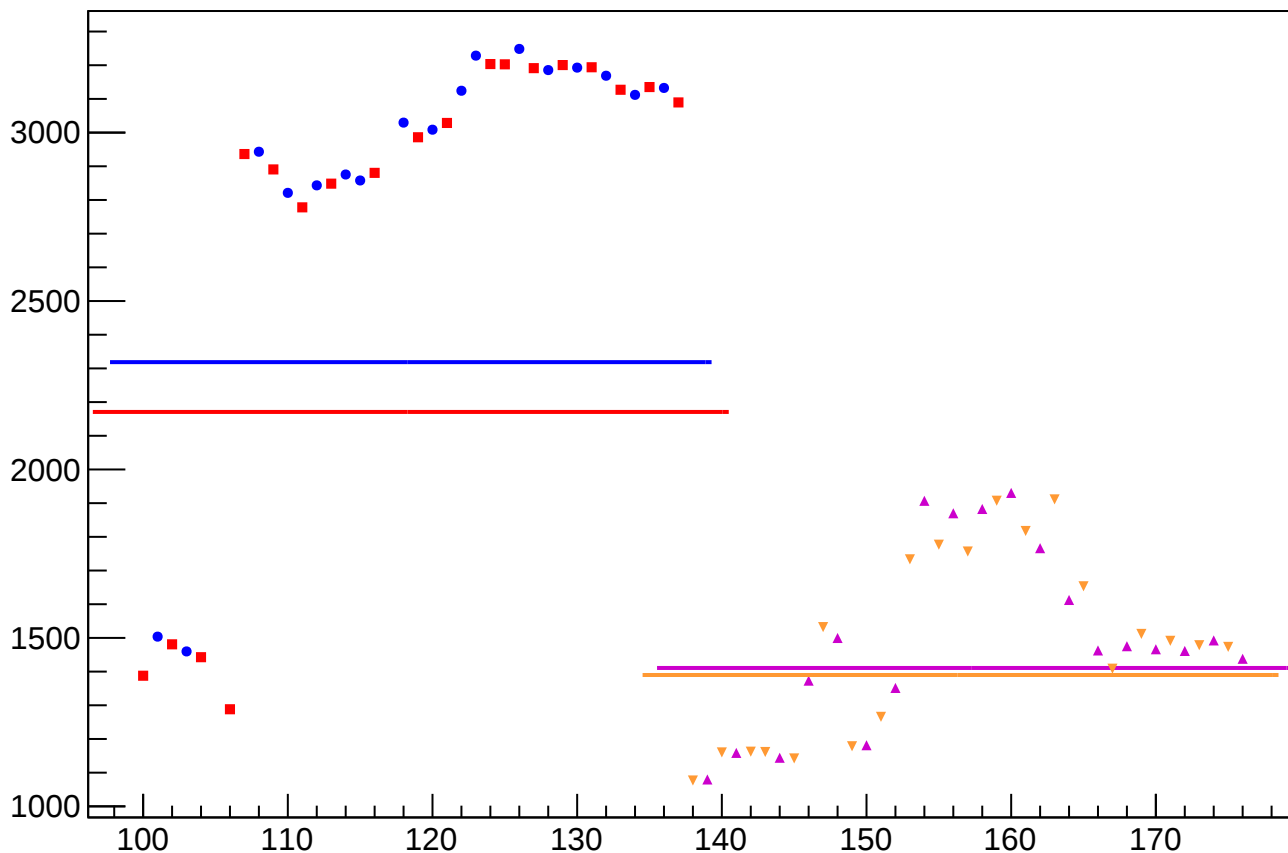
Right: 9.935 $\pm$ 0.638 χ^2/NDF : 236.2/35

In: 5.293 $\pm$ 0.349 χ^2/NDF : 618.2/35

Out: -3.874 $\pm$ 0.337 χ^2/NDF : 503.3/38

All: 0.549 $\pm$ 0.242 χ^2/NDF : 1478.9/74

diff_bpm0r03Y_rms vs Slug, Sign Corrected



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

Left Out: 1389.923 $\pm$ 0.259 χ^2/NDF :1002002.0/19

Right Out: 2170.786 $\pm$ 0.613 χ^2/NDF : 1753687.8/18

Left In: 1410.789 $\pm$ 0.266 χ^2/NDF :892276.2/18

Left: 1400.078 $\pm$ 0.185 χ^2/NDF : 1897448.2/38

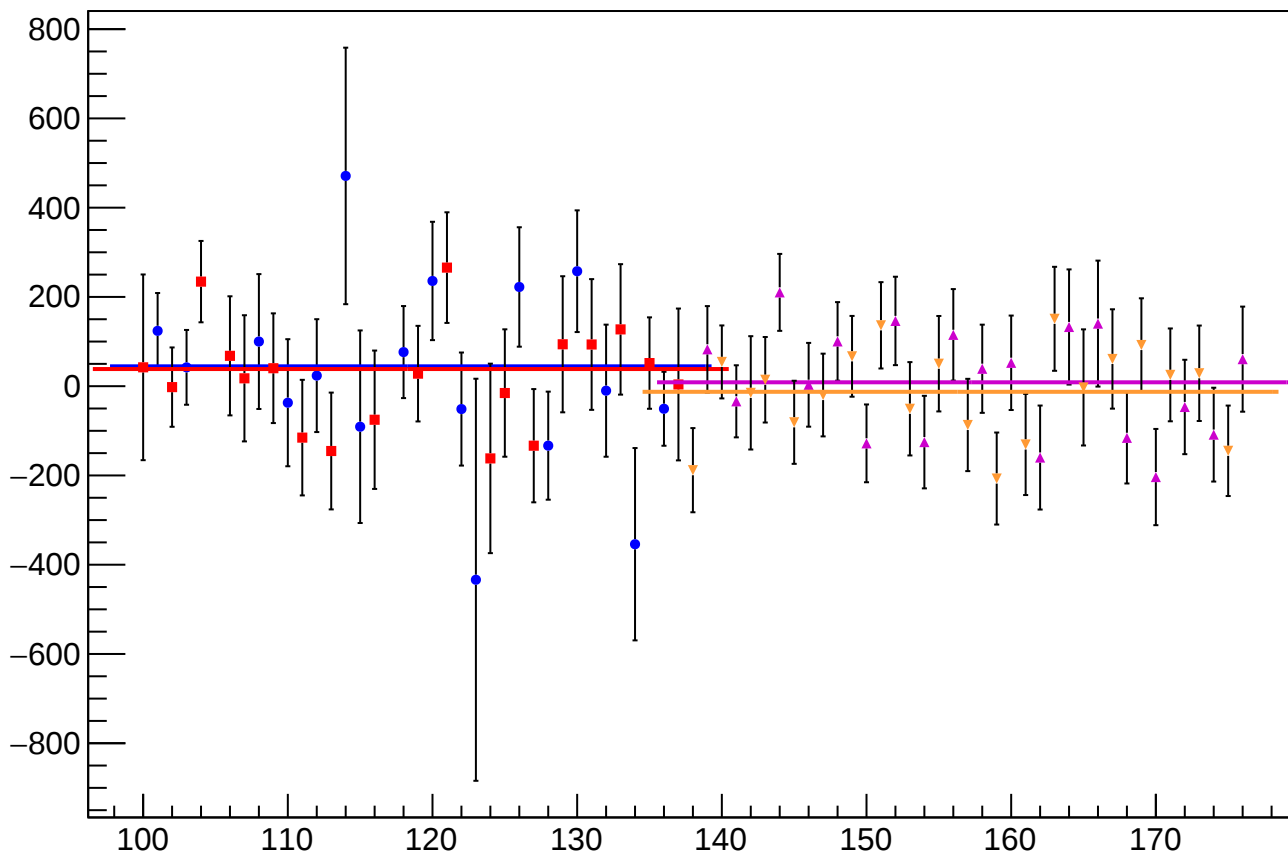
Right: 2238.439 $\pm$ 0.451 χ^2/NDF : 3188639.4/35

In: 1534.998 $\pm$ 0.247 χ^2/NDF :3899965.6/35

Out: 1507.982 $\pm$ 0.238 χ^2/NDF :4134838.3/38

All: 1521.017 $\pm$ 0.171 χ^2/NDF : 8041010.2/74

diff_bpm0r05X_mean vs Slug, Sign Corrected



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

Left Out: -12.589 $\pm$ 22.820 χ^2/NDF : 18.9/19

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: -2.086 $\pm$ 16.247 χ^2/NDF : 45.1/38

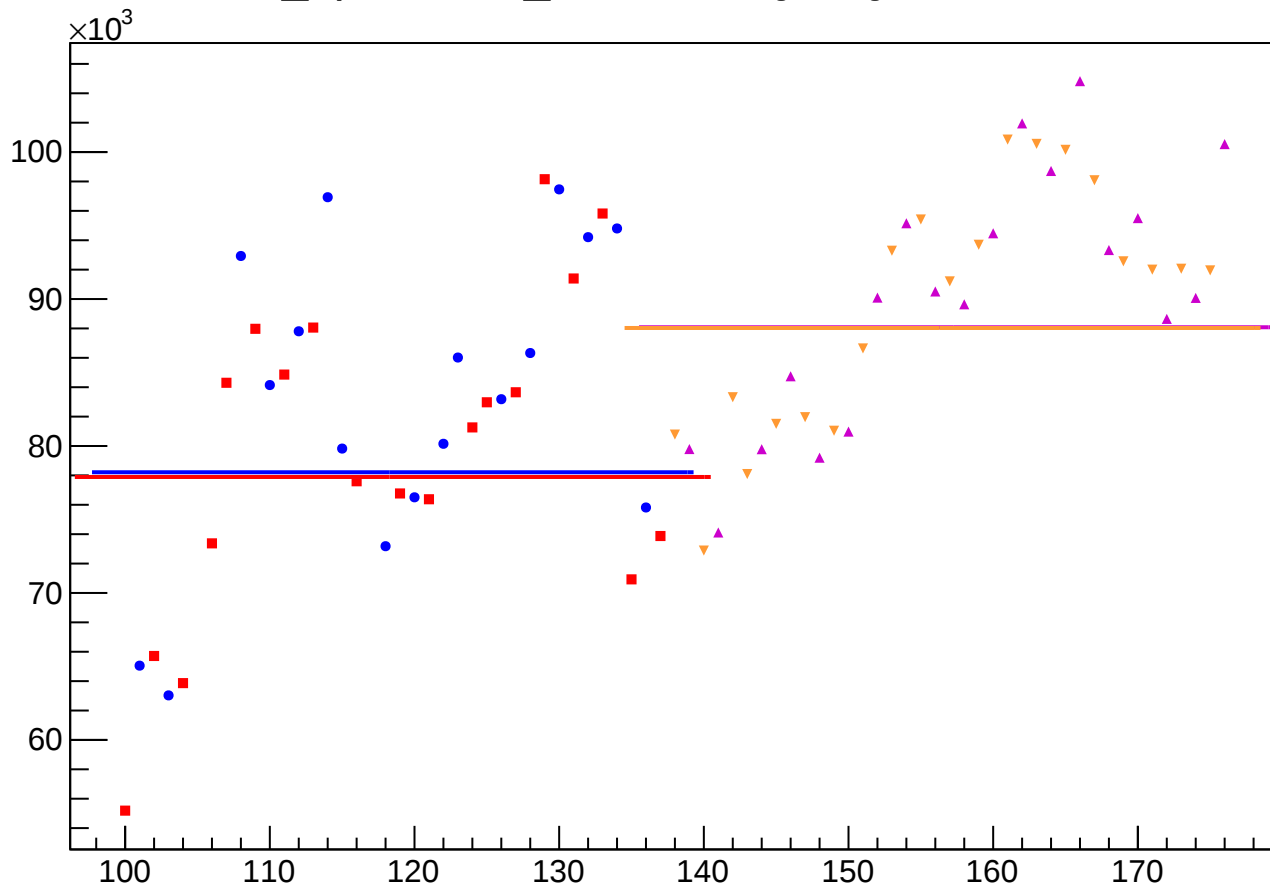
Right: 41.353 $\pm$ 21.157 χ^2/NDF : 34.9/35

In: 21.813 $\pm$ 18.418 χ^2/NDF : 45.7/35

Out: 6.562 $\pm$ 18.035 χ^2/NDF : 36.6/38

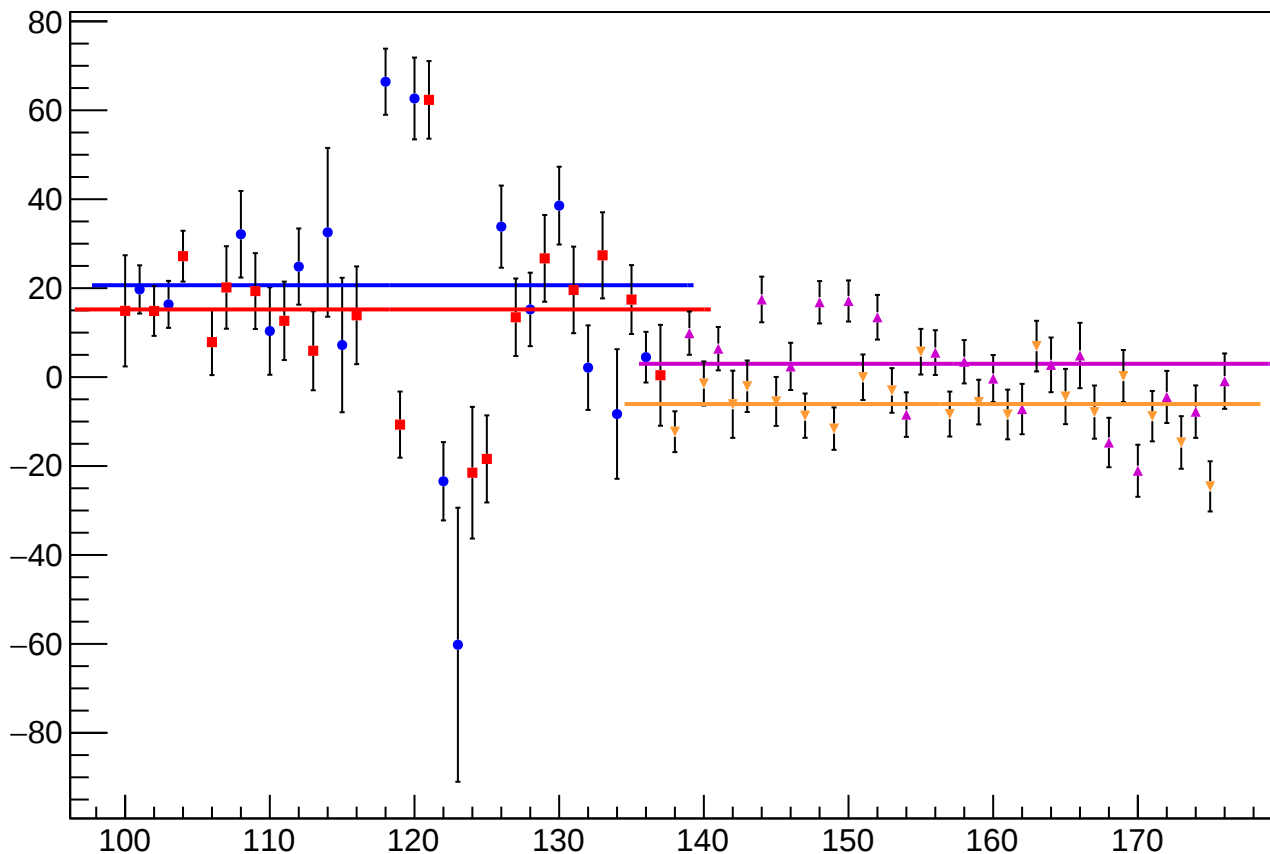
All: 14.027 $\pm$ 12.886 χ^2/NDF : 82.6/74

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519	χ^2/NDF : 251056.7/16	Left: 88055.262+/-11.488	χ^2/NDF : 509160.0/38
Left Out: 88031.010+/-16.136	χ^2/NDF : 252906.5/19	Right: 78047.137+/-14.960	χ^2/NDF : 498141.9/35
Right Out: 77891.938+/-20.814	χ^2/NDF : 246970.2/18	In: 84466.085+/-13.023	χ^2/NDF : 640553.5/35
Left In: 88080.190+/-16.359	χ^2/NDF : 256248.9/18	Out: 84224.698+/-12.753	χ^2/NDF : 648092.0/38
		All: 84342.859+/-9.112	χ^2/NDF : 1288820.9/71

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.657 $\pm$ 2.036 χ^2/NDF : 117.7/16

Left Out: -6.061 $\pm$ 1.209 χ^2/NDF : 31.9/19

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: -1.595 $\pm$ 0.860 χ^2/NDF : 133.6/38

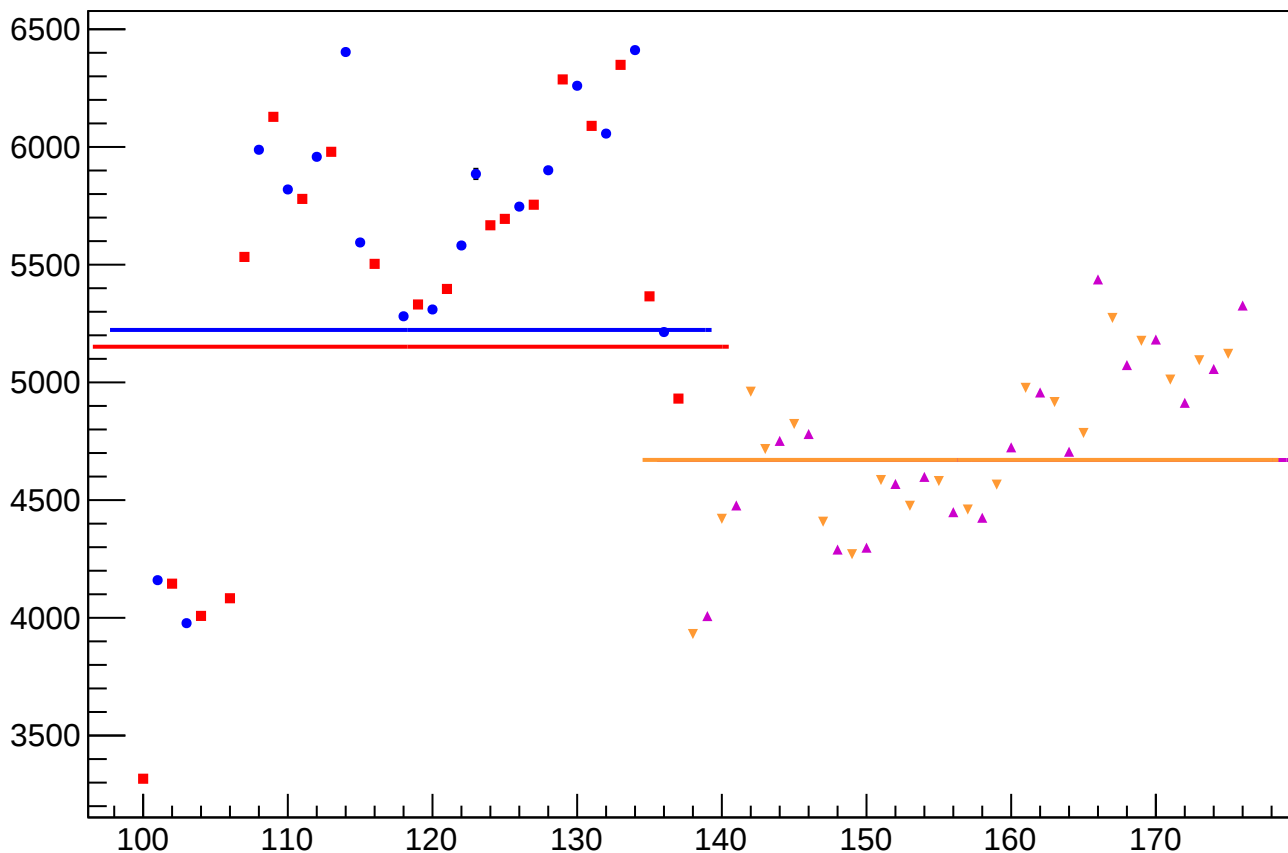
Right: 17.826 $\pm$ 1.410 χ^2/NDF : 192.8/35

In: 7.686 $\pm$ 1.050 χ^2/NDF : 247.1/35

Out: -0.175 $\pm$ 1.028 χ^2/NDF : 188.9/38

All: 3.674 $\pm$ 0.734 χ^2/NDF : 464.6/74

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5222.767 ± 1.440 $\chi^2/\text{NDF}: 312497.9/16$

Left Out: 4670.732 ± 0.855 $\chi^2/\text{NDF}: 165730.3/19$

Right Out: 5151.532 ± 1.382 $\chi^2/\text{NDF}: 387685.6/18$

Left In: 4670.346 ± 0.866 $\chi^2/\text{NDF}: 164684.4/18$

Left: 4670.541 ± 0.608 $\chi^2/\text{NDF}: 330414.8/38$

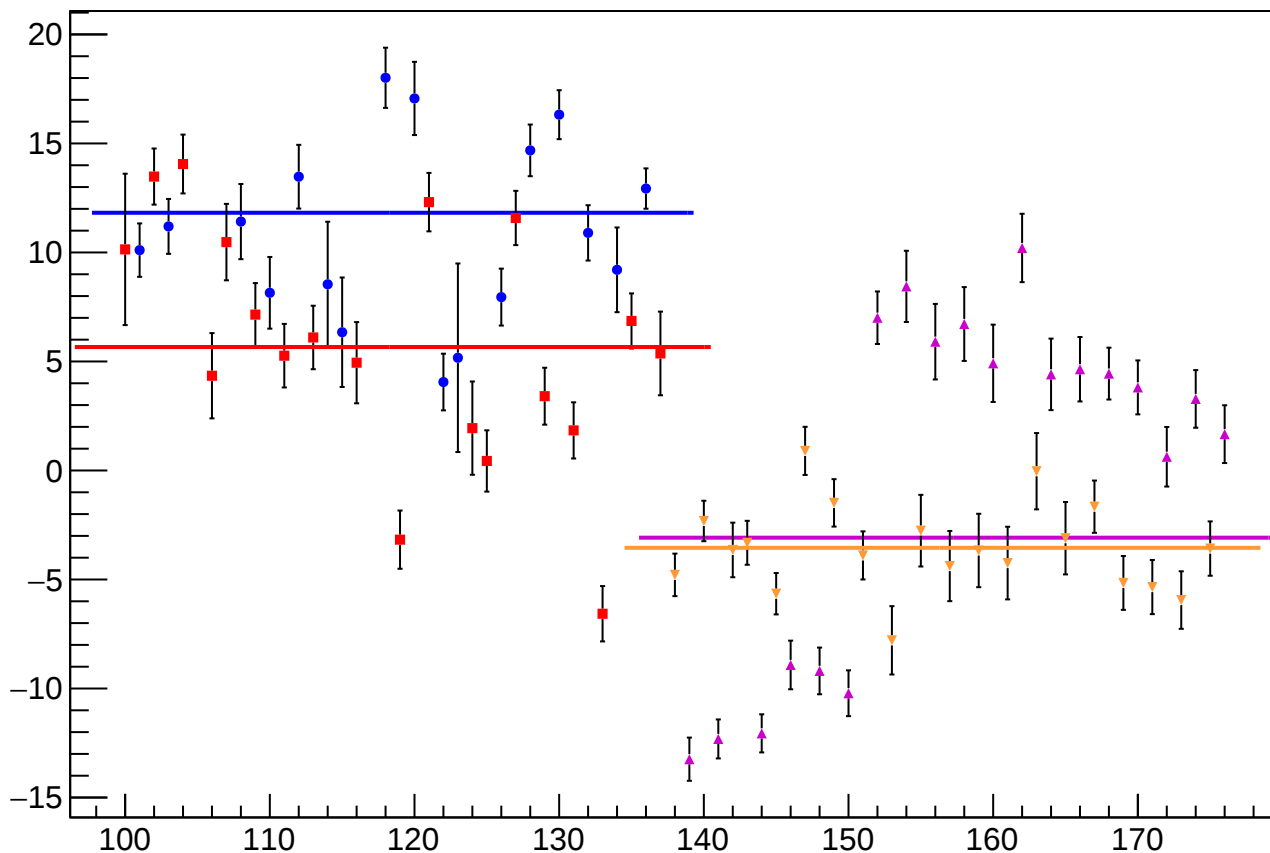
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4817.178 ± 0.742 $\chi^2/\text{NDF}: 585296.6/35$

Out: 4803.742 ± 0.727 $\chi^2/\text{NDF}: 640943.8/38$

All: 4810.321 ± 0.519 $\chi^2/\text{NDF}: 1226407.7/74$

diff_bpm2i01X_mean vs Slug, Sign Corrected



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

Left Out: -3.547 ± 0.275 $\chi^2/\text{NDF}: 50.0/19$

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: -3.321 ± 0.197 $\chi^2/\text{NDF}: 909.8/38$

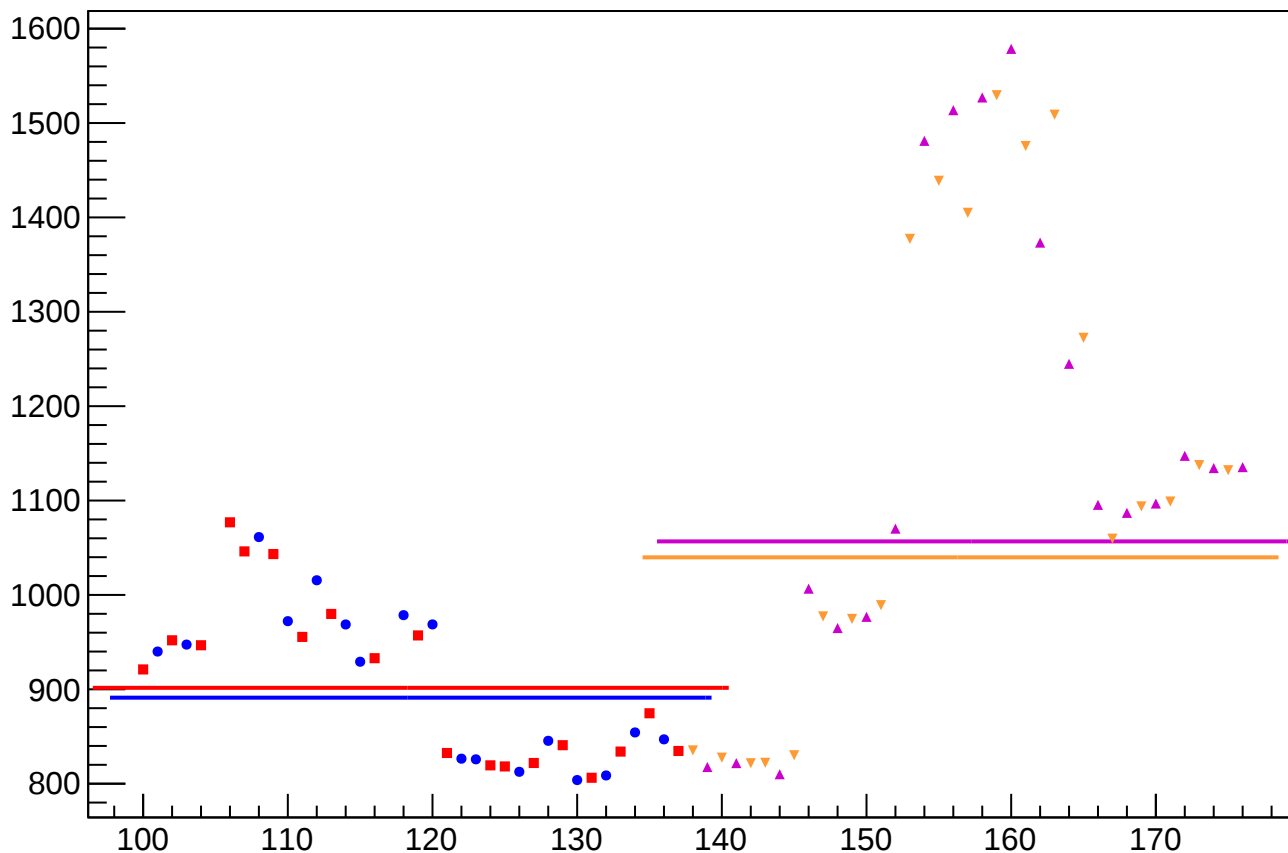
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.919 ± 0.219 $\chi^2/\text{NDF}: 2093.3/35$

Out: 0.116 ± 0.213 $\chi^2/\text{NDF}: 796.0/38$

All: 1.484 ± 0.153 $\chi^2/\text{NDF}: 2973.5/74$

diff_bpm2i01X_rms vs Slug, Sign Corrected



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

Left Out: 1039.824+/-0.194 χ^2/NDF :1295373.1/19

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: 1048.034+/-0.139 χ^2/NDF : 2480440.1/38

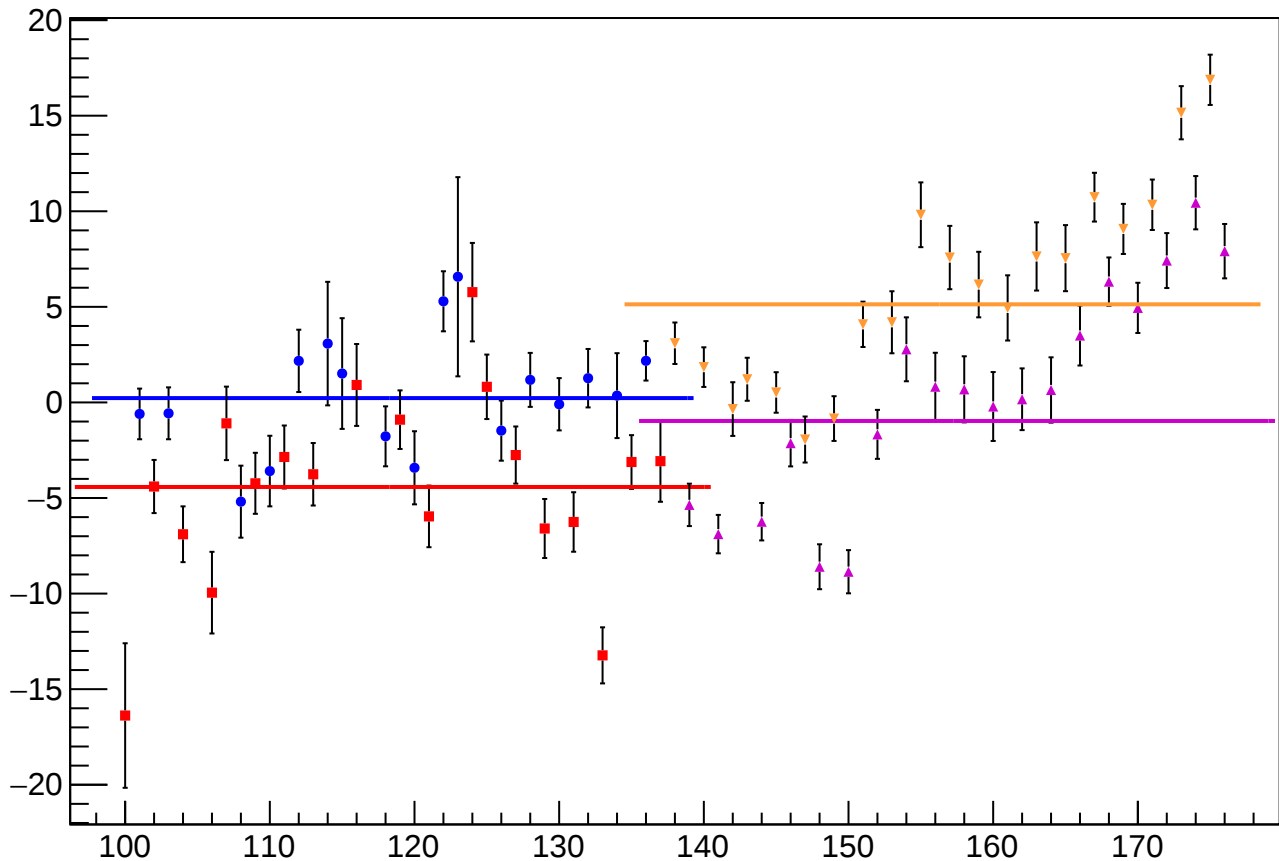
Right: 896.461+/-0.171 χ^2/NDF : 217184.3/35

In: 990.046+/-0.155 χ^2/NDF :1559001.6/35

Out: 984.846+/-0.151 χ^2/NDF :1610895.7/38

All: 987.384+/-0.108 χ^2/NDF : 3170476.6/74

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 ± 0.395 χ^2/NDF : 38.5/16

Left Out: 5.131 ± 0.296 χ^2/NDF : 311.3/19

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: 2.164 ± 0.212 χ^2/NDF : 899.3/38

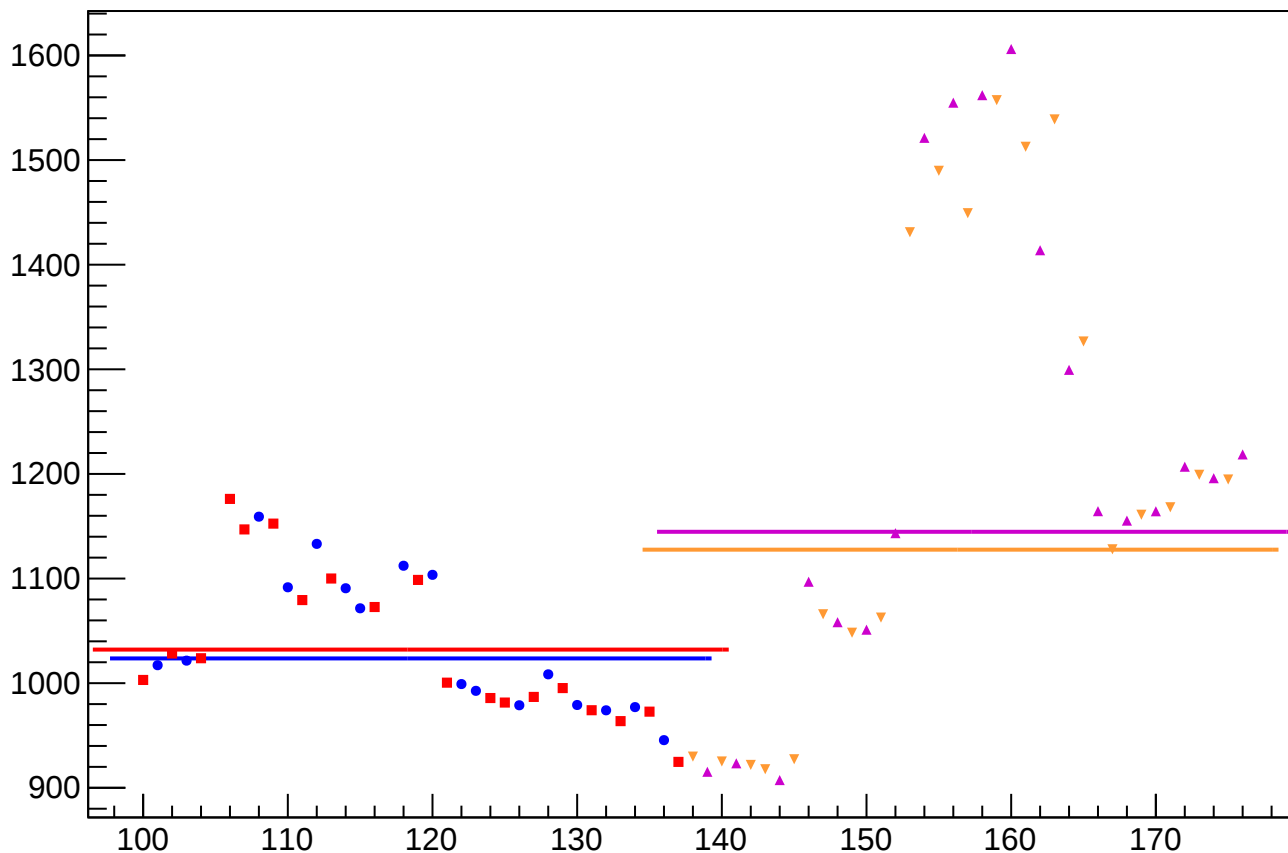
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -0.524 ± 0.241 χ^2/NDF : 426.1/35

Out: 1.597 ± 0.235 χ^2/NDF : 799.3/38

All: 0.563 ± 0.168 χ^2/NDF : 1265.0/74

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 $\pm$ 0.279 χ^2 /NDF: 52373.8/16

Left Out: 1127.610 $\pm$ 0.210 χ^2 /NDF: 957935.3/19

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: 1135.919 $\pm$ 0.150 χ^2 /NDF: 1829218.0/38

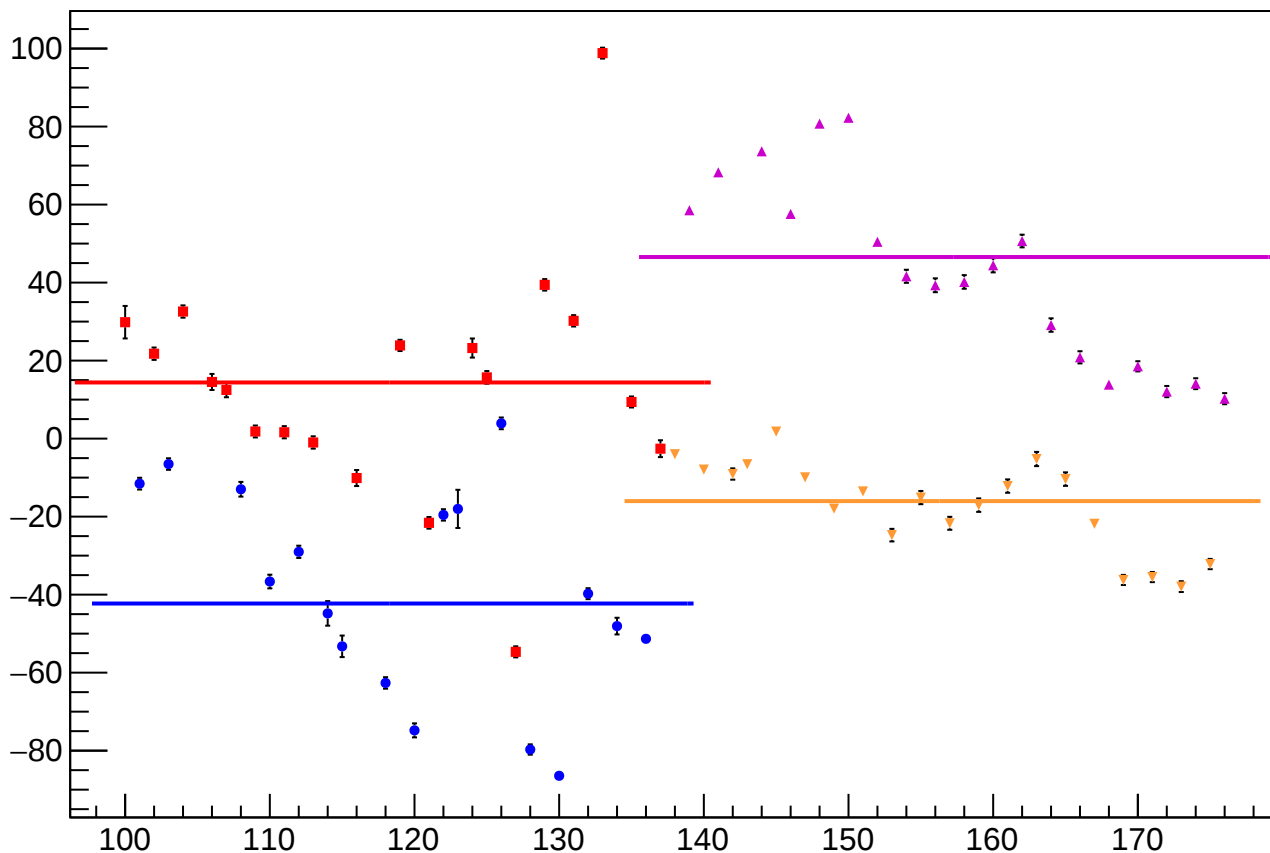
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1099.582 $\pm$ 0.171 χ^2 /NDF: 1038233.5/35

Out: 1092.285 $\pm$ 0.166 χ^2 /NDF: 1094186.8/38

All: 1095.843 $\pm$ 0.119 χ^2 /NDF: 2133358.8/74

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 $\pm$ 0.387 χ^2/NDF : 5126.8/16

Left Out: -16.020 $\pm$ 0.301 χ^2/NDF : 1540.4/19

Right Out: 14.393 $\pm$ 0.378 χ^2/NDF : 7669.8/18

Left In: 46.554 $\pm$ 0.310 χ^2/NDF : 6255.3/18

Left: 14.306 $\pm$ 0.216 χ^2/NDF : 28769.2/38

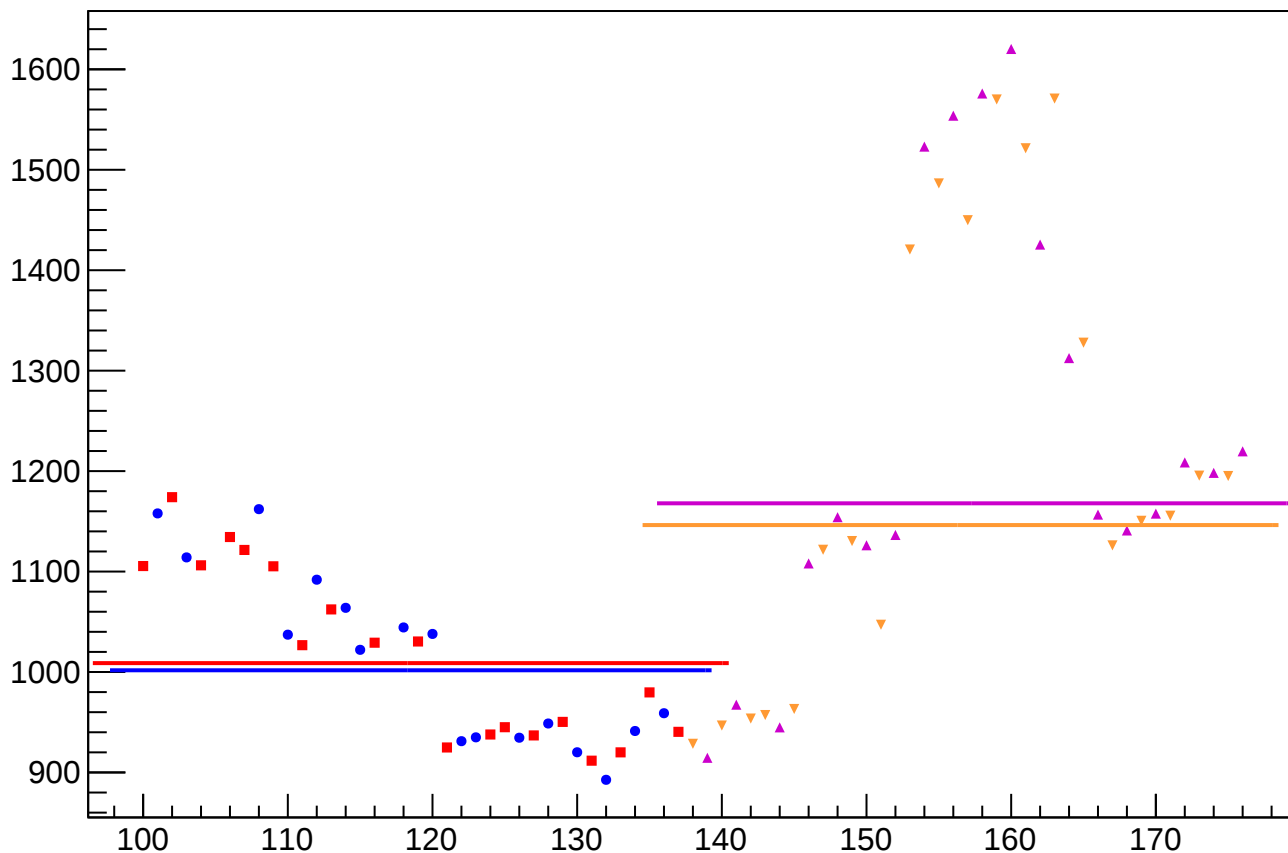
Right: -13.301 $\pm$ 0.271 χ^2/NDF : 23754.3/35

In: 11.822 $\pm$ 0.242 χ^2/NDF : 43450.2/35

Out: -4.246 $\pm$ 0.235 χ^2/NDF : 13167.9/38

All: 3.567 $\pm$ 0.169 χ^2/NDF : 58882.0/74

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1146.283 $\pm$ 0.213 χ^2 /NDF:867472.4/19

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: 1156.779 $\pm$ 0.153 χ^2 /NDF: 1641264.0/38

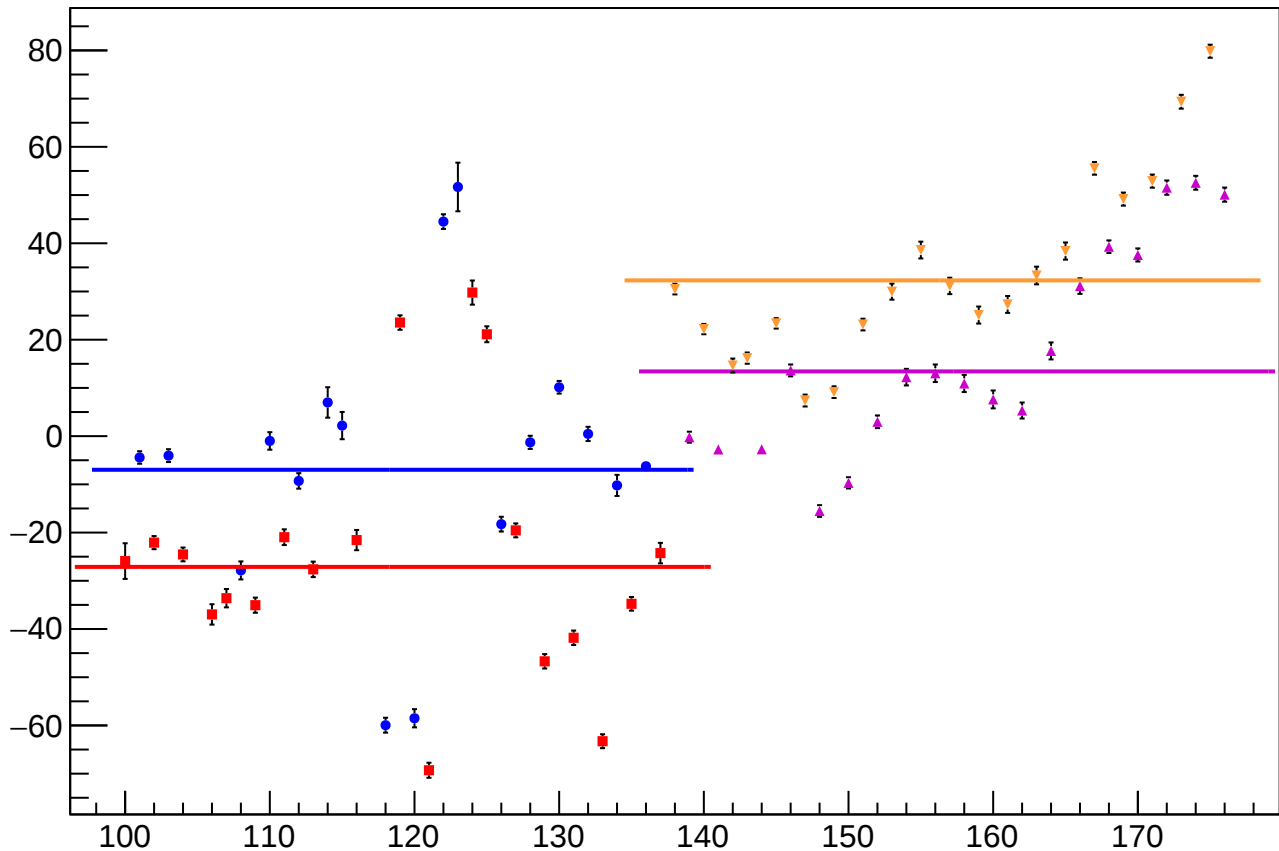
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1102.946 $\pm$ 0.171 χ^2 /NDF:1088842.7/35

Out: 1093.077 $\pm$ 0.167 χ^2 /NDF:1124462.6/38

All: 1097.876 $\pm$ 0.119 χ^2 /NDF: 2215013.2/74

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 32.302 ± 0.305 χ^2/NDF : 3961.2/19

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: 23.123 ± 0.219 χ^2/NDF : 10380.5/38

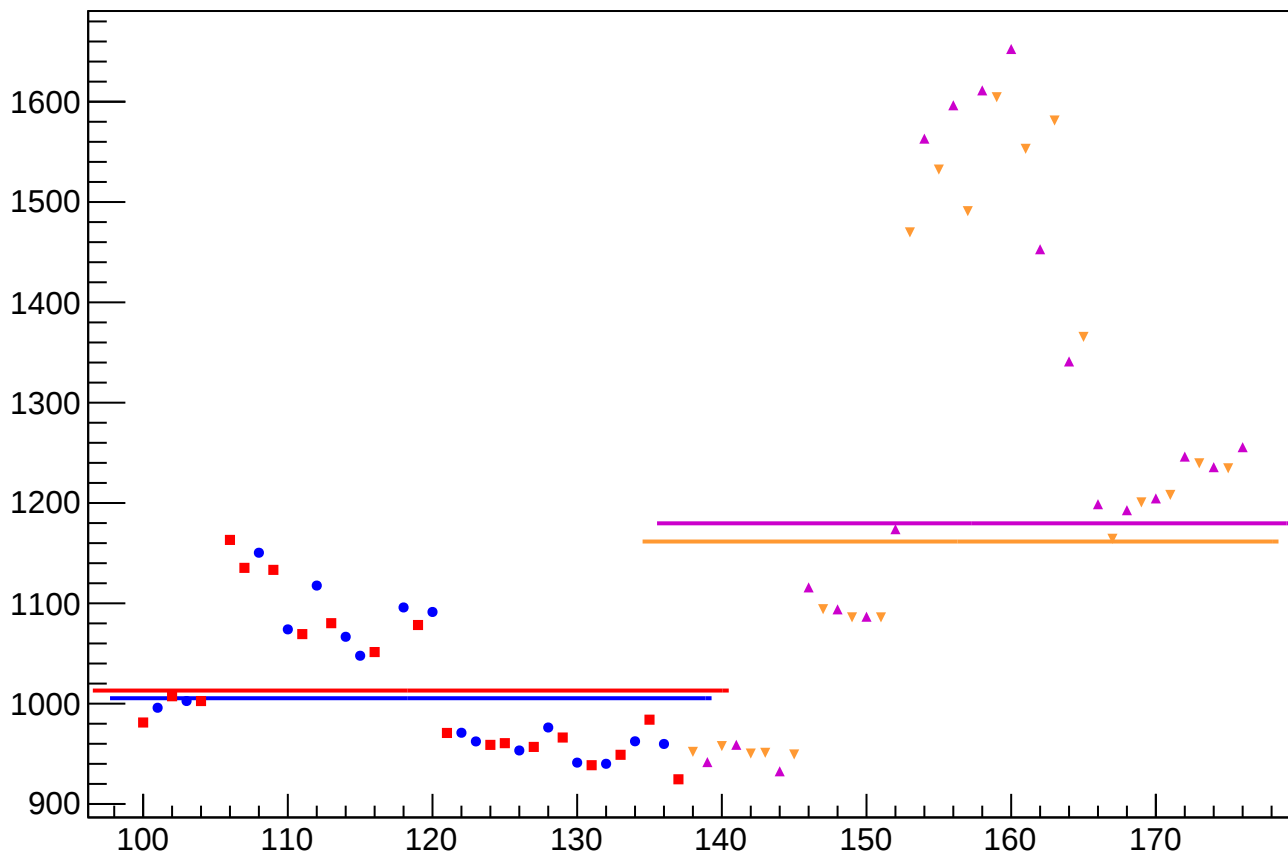
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: 5.360 ± 0.244 χ^2/NDF : 9867.7/35

Out: 8.974 ± 0.238 χ^2/NDF : 23127.0/38

All: 7.213 ± 0.170 χ^2/NDF : 33107.2/74

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2/NDF : 54586.0/16

Left Out: 1161.603 $\pm$ 0.216 χ^2/NDF : 955601.9/19

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: 1170.423 $\pm$ 0.155 χ^2/NDF : 1820049.9/38

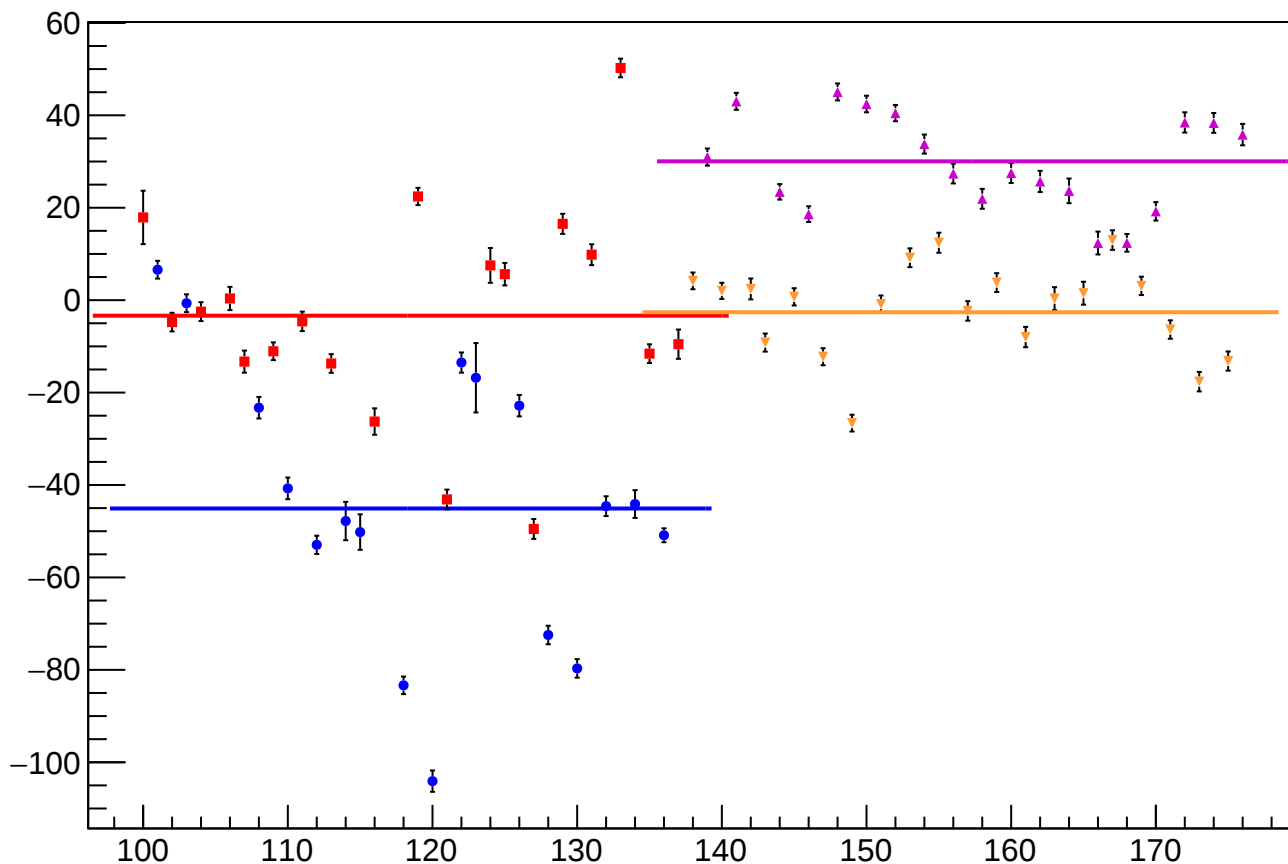
Right: 1009.320 $\pm$ 0.192 χ^2/NDF : 118249.5/35

In: 1110.820 $\pm$ 0.172 χ^2/NDF : 1159789.6/35

Out: 1103.286 $\pm$ 0.168 χ^2/NDF : 1204884.7/38

All: 1106.958 $\pm$ 0.120 χ^2/NDF : 2365652.3/74

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -2.611 ± 0.452 χ^2/NDF : 487.2/19

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: 13.432 ± 0.322 χ^2/NDF : 3542.1/38

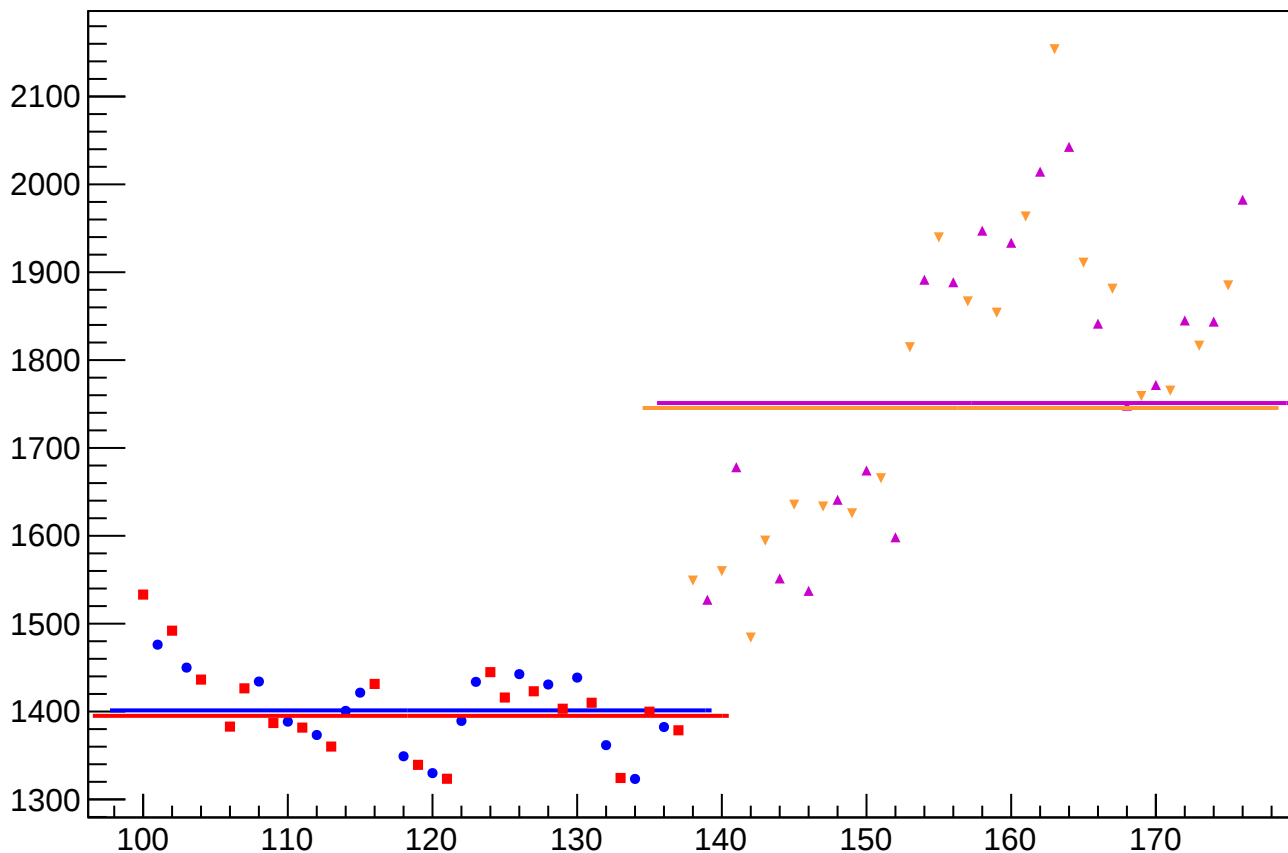
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -1.561 ± 0.350 χ^2/NDF : 14953.2/35

Out: -2.931 ± 0.342 χ^2/NDF : 2494.1/38

All: -2.262 ± 0.244 χ^2/NDF : 17455.1/74

diff_bpm0i02X_rms vs Slug, Sign Corrected



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

Left Out: 1745.496 $\pm$ 0.320 χ^2/NDF : 244054.1/19

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: 1748.269 $\pm$ 0.228 χ^2/NDF : 491119.6/38

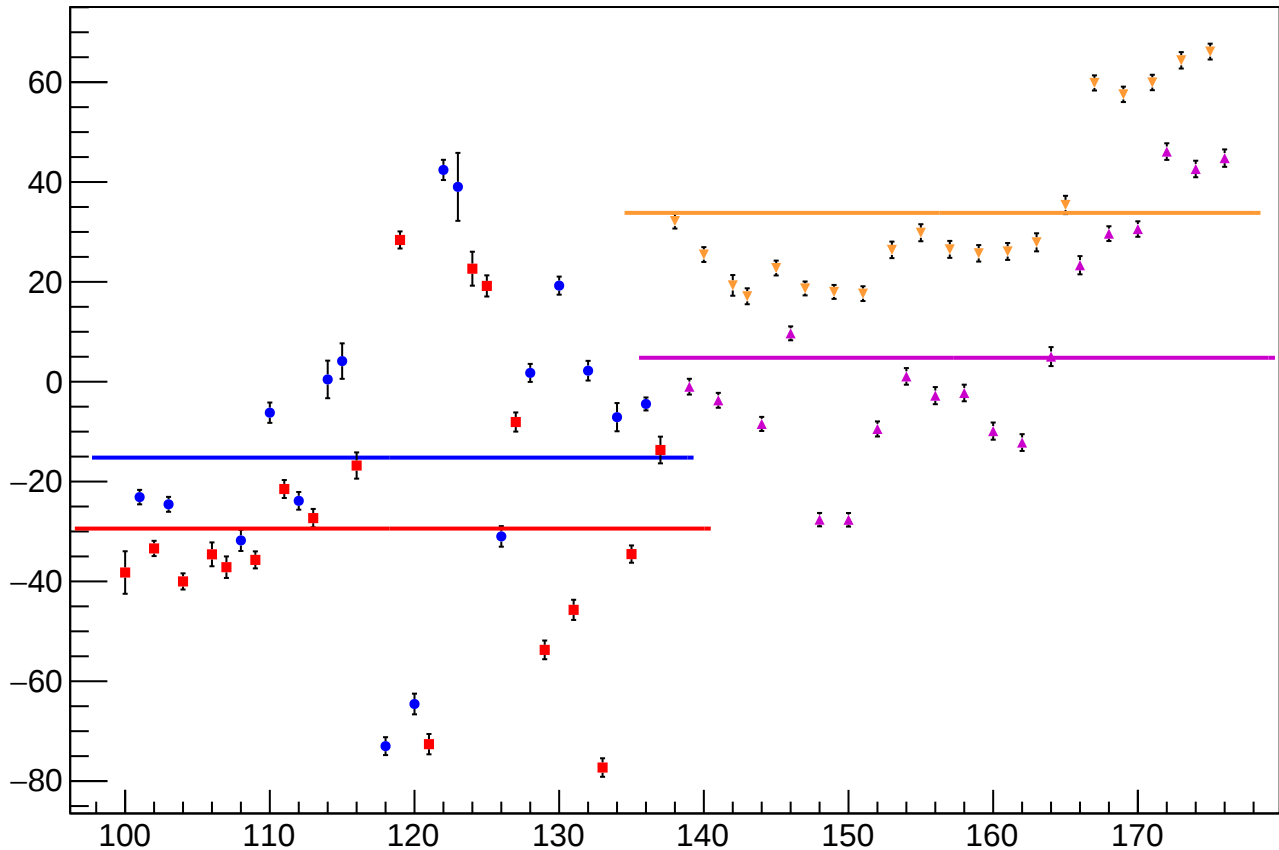
Right: 1398.102 $\pm$ 0.265 χ^2/NDF : 28508.5/35

In: 1603.983 $\pm$ 0.248 χ^2/NDF : 746614.9/35

Out: 1595.291 $\pm$ 0.242 χ^2/NDF : 774786.8/38

All: 1599.532 $\pm$ 0.173 χ^2/NDF : 1522033.3/74

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 $\chi^2/\text{NDF}: 3362.5/16$

Left Out: 33.820 ± 0.356 $\chi^2/\text{NDF}: 2289.5/19$

Right Out: -29.418 ± 0.456 $\chi^2/\text{NDF}: 3544.8/18$

Left In: 4.794 ± 0.361 $\chi^2/\text{NDF}: 3931.5/18$

Left: 19.510 ± 0.254 $\chi^2/\text{NDF}: 9492.2/38$

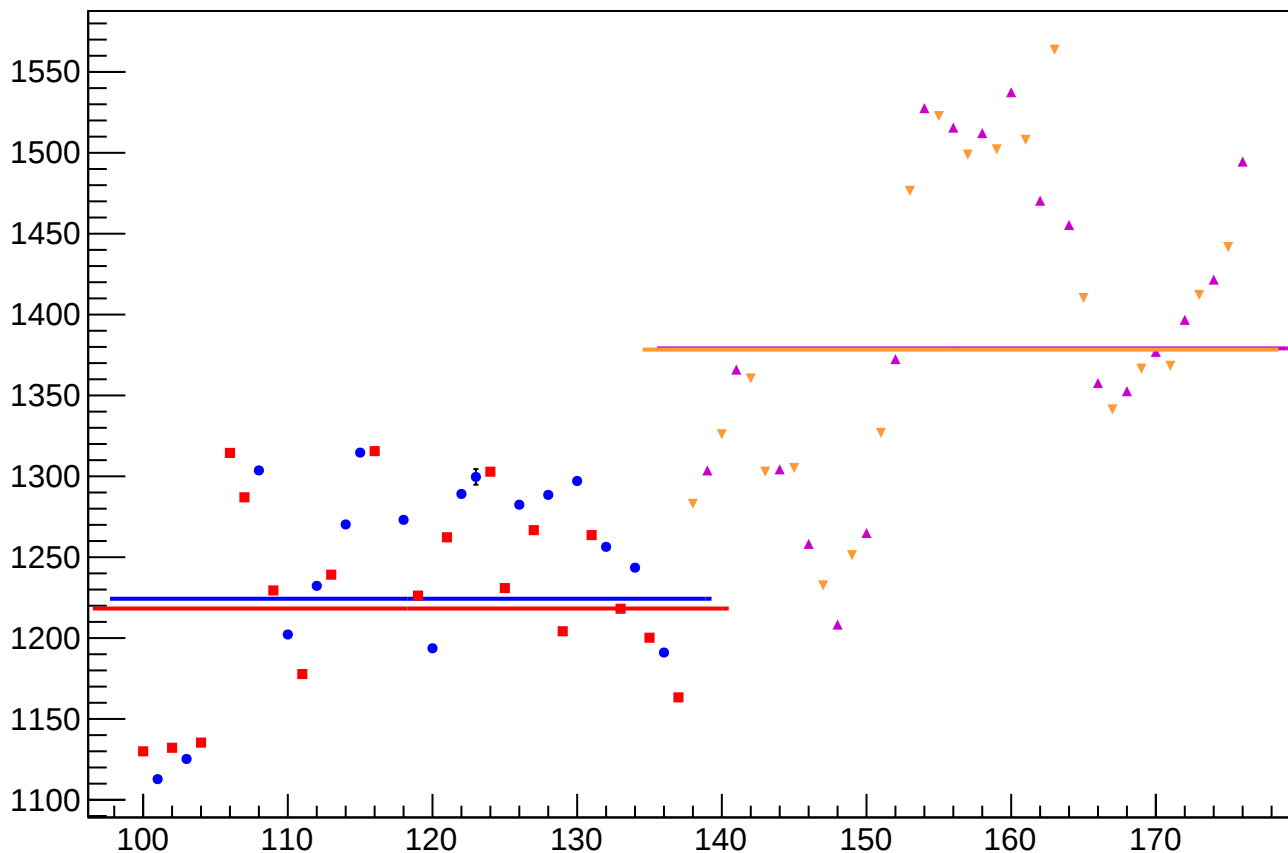
Right: -22.553 ± 0.328 $\chi^2/\text{NDF}: 7376.3/35$

In: -2.592 ± 0.287 $\chi^2/\text{NDF}: 8425.3/35$

Out: 9.857 ± 0.281 $\chi^2/\text{NDF}: 17768.7/38$

All: 3.767 ± 0.201 $\chi^2/\text{NDF}: 27155.5/74$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1378.334+/-0.252 χ^2/NDF : 142420.0/19

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: 1378.709+/-0.179 χ^2/NDF : 293028.7/38

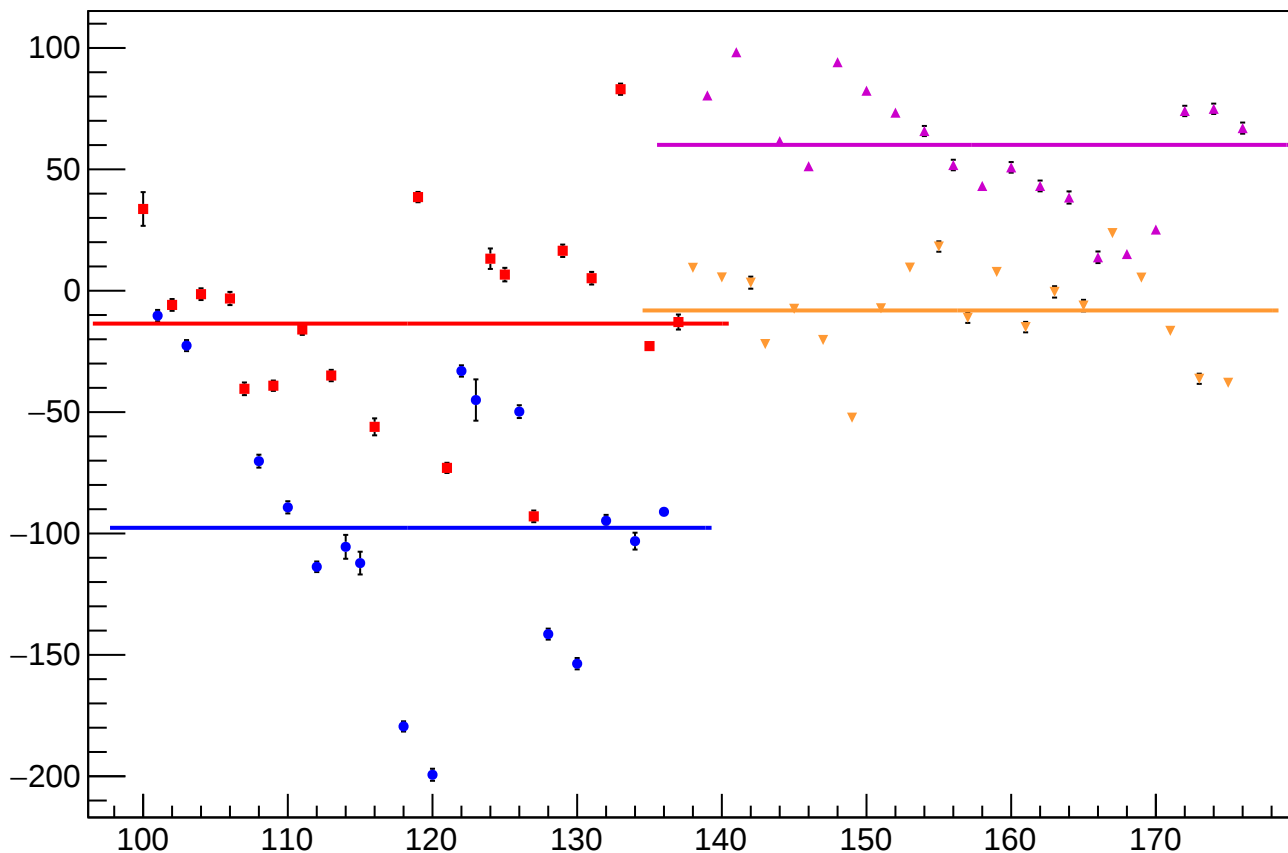
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1321.921+/-0.203 χ^2/NDF : 324928.7/35

Out: 1317.684+/-0.199 χ^2/NDF : 322904.4/38

All: 1319.757+/-0.142 χ^2/NDF : 648055.8/74

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 $\pm$ 0.601 χ^2/NDF : 7936.6/16

Left Out: -8.123 $\pm$ 0.449 χ^2/NDF :1873.3/19

Right Out: -13.538 $\pm$ 0.579 χ^2/NDF : 5128.2/18

Left In: 60.084 $\pm$ 0.459 χ^2/NDF :2737.5/18

Left: 25.264 $\pm$ 0.321 χ^2/NDF : 15899.3/38

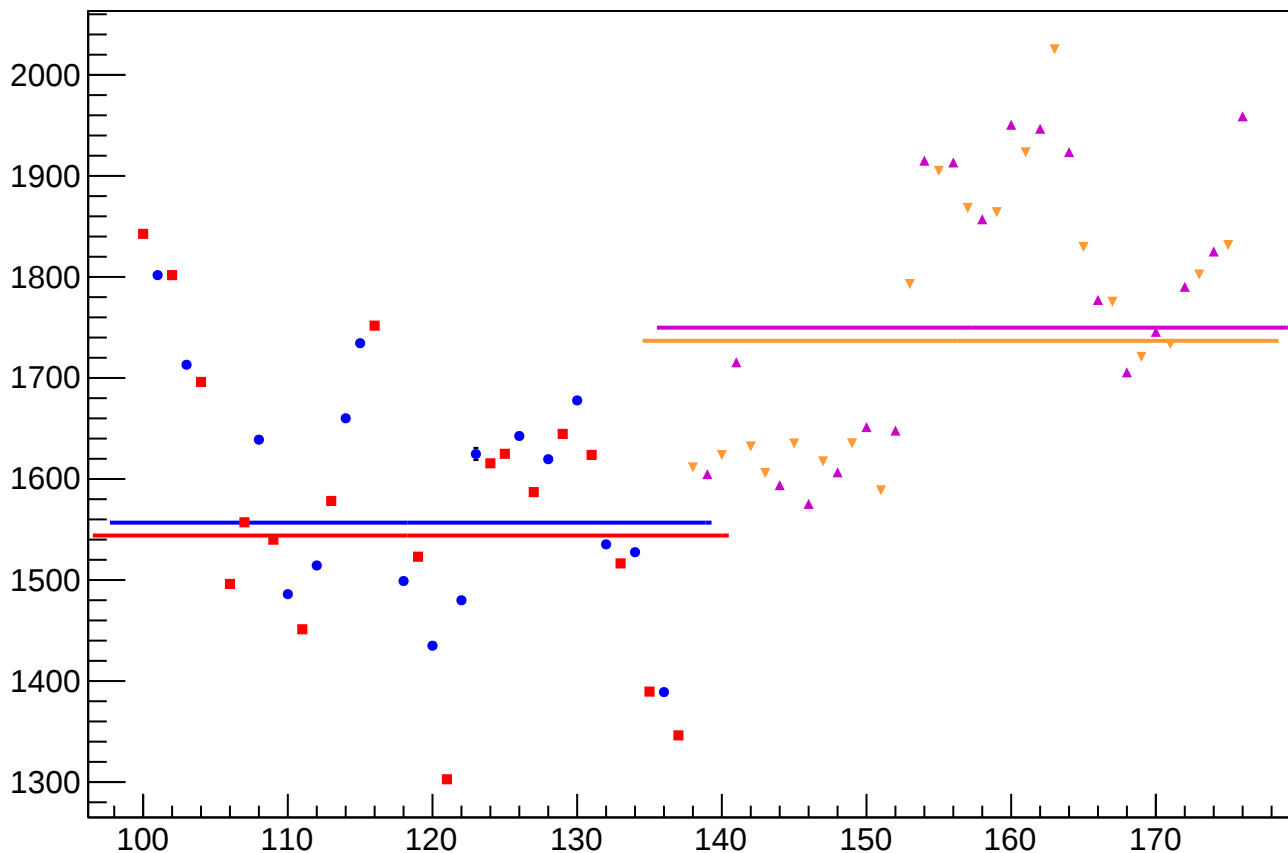
Right: -54.035 $\pm$ 0.417 χ^2/NDF : 23213.1/35

In: 2.062 $\pm$ 0.365 χ^2/NDF :54176.8/35

Out: -10.156 $\pm$ 0.355 χ^2/NDF :7056.0/38

All: -4.212 $\pm$ 0.254 χ^2/NDF : 61809.2/74

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799+/-0.425 χ^2/NDF : 81549.2/16

Left Out: 1736.793+/-0.318 χ^2/NDF :148499.0/19

Right Out: 1544.034+/-0.410 χ^2/NDF : 100501.7/18

Left In: 1749.809+/-0.324 χ^2/NDF :166433.9/18

Left: 1743.165+/-0.227 χ^2/NDF : 315755.1/38

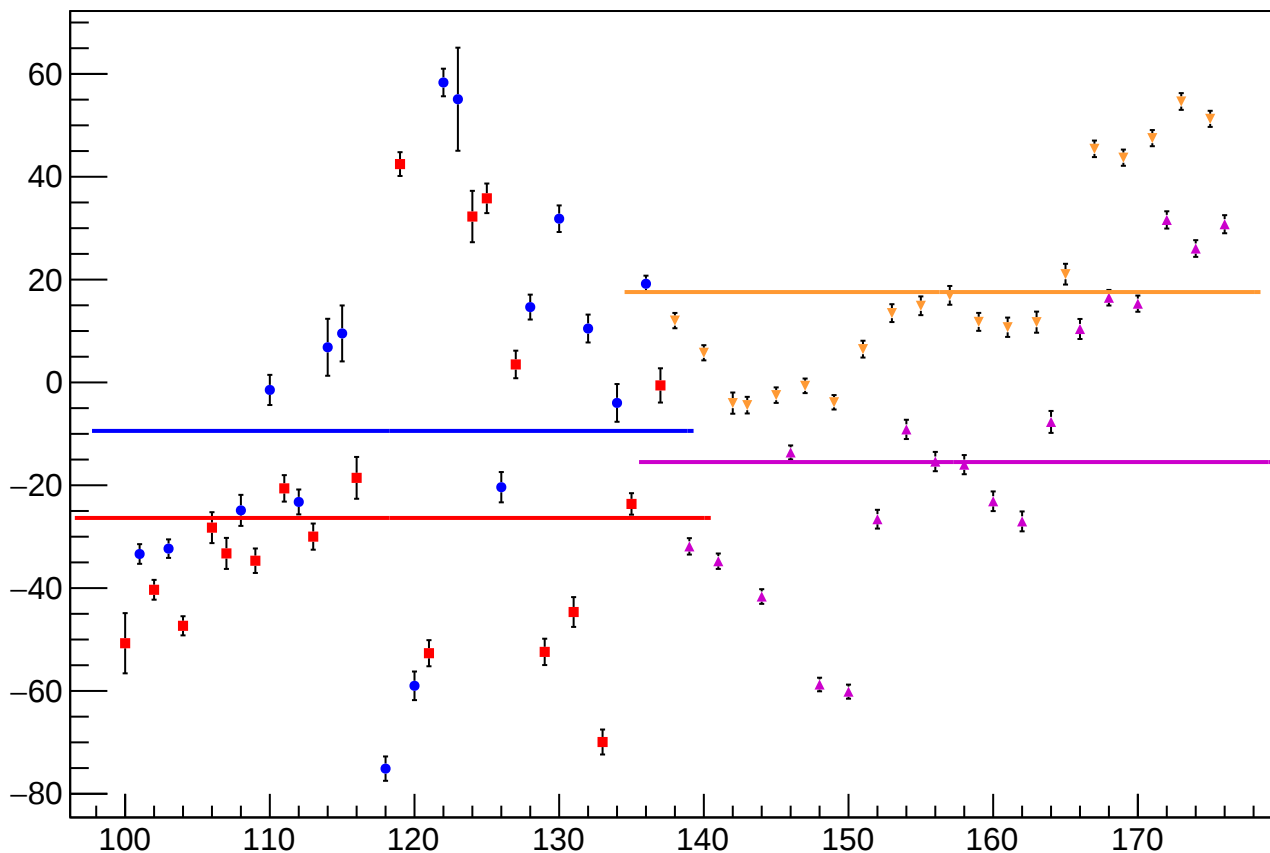
Right: 1550.179+/-0.295 χ^2/NDF : 182518.3/35

In: 1678.815+/-0.258 χ^2/NDF :378244.5/35

Out: 1664.435+/-0.251 χ^2/NDF :387280.5/38

All: 1671.431+/-0.180 χ^2/NDF : 767121.6/74

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 χ^2/NDF : 2924.1/16

Left Out: 17.580 ± 0.369 χ^2/NDF : 2956.8/19

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: 1.398 ± 0.263 χ^2/NDF : 12883.9/38

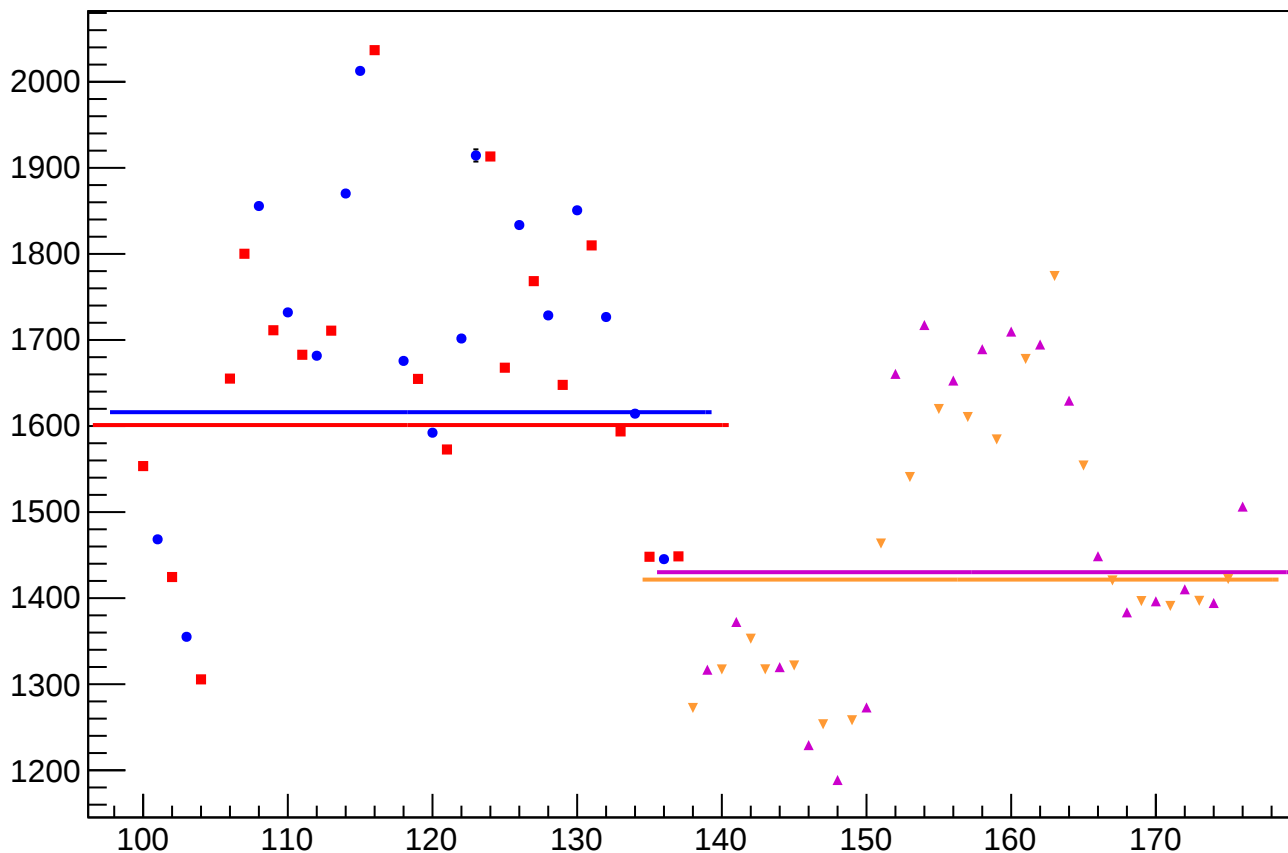
Right: -18.216 ± 0.434 χ^2/NDF : 5775.3/35

In: -13.877 ± 0.323 χ^2/NDF : 8984.9/35

Out: 5.616 ± 0.315 χ^2/NDF : 9294.4/38

All: -3.879 ± 0.225 χ^2/NDF : 20149.7/74

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2 /NDF: 149596.3/16

Left Out: 1421.553 $\pm$ 0.261 χ^2 /NDF:284586.7/19

Right Out: 1601.134 $\pm$ 0.426 χ^2 /NDF: 153651.5/18

Left In: 1430.163 $\pm$ 0.266 χ^2 /NDF:412913.0/18

Left: 1425.767 $\pm$ 0.186 χ^2 /NDF: 698033.4/38

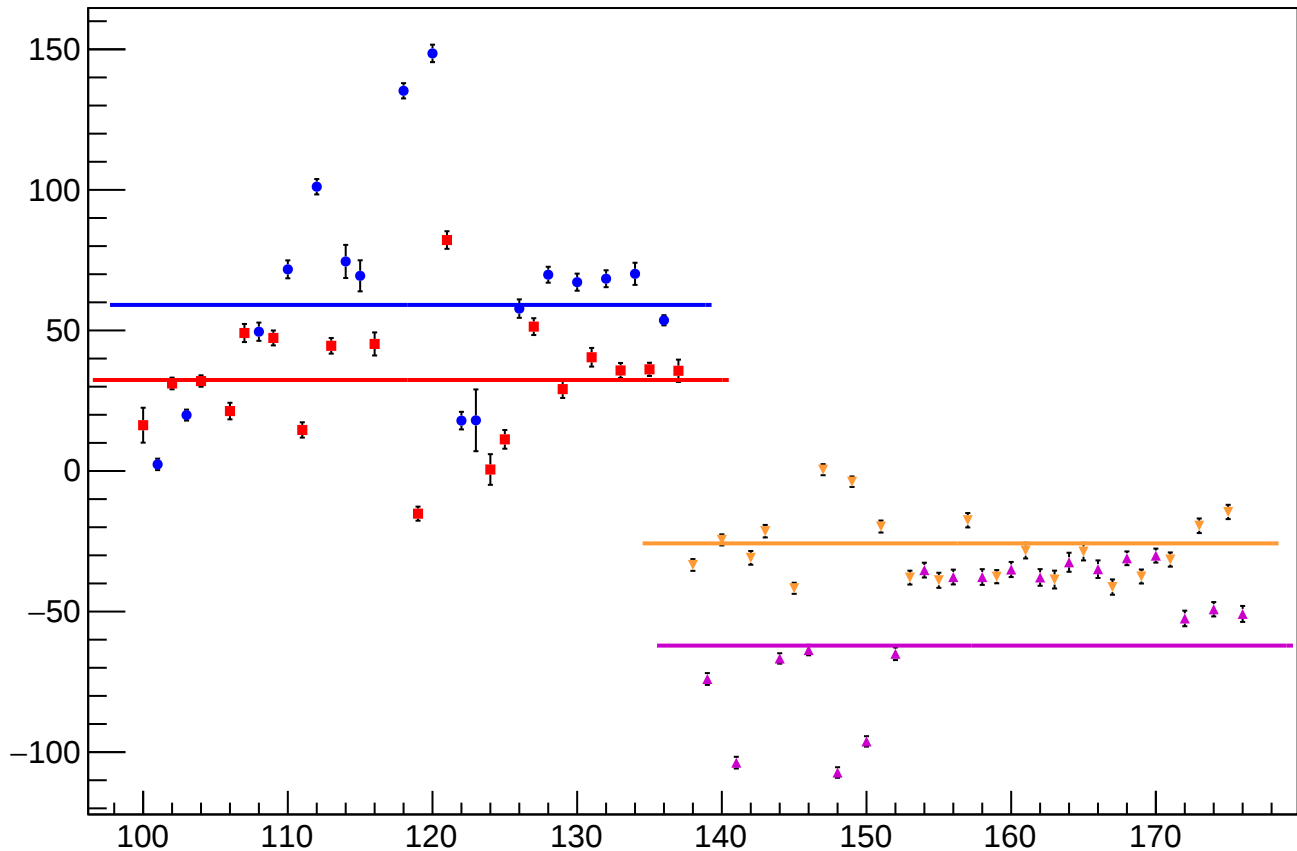
Right: 1608.326 $\pm$ 0.307 χ^2 /NDF: 303840.0/35

In: 1479.531 $\pm$ 0.228 χ^2 /NDF:691909.0/35

Out: 1470.455 $\pm$ 0.222 χ^2 /NDF:567408.6/38

All: 1474.876 $\pm$ 0.159 χ^2 /NDF: 1260128.5/74

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -25.749 ± 0.528 χ^2/NDF : 597.5/19

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: -43.438 ± 0.378 χ^2/NDF : 5230.8/38

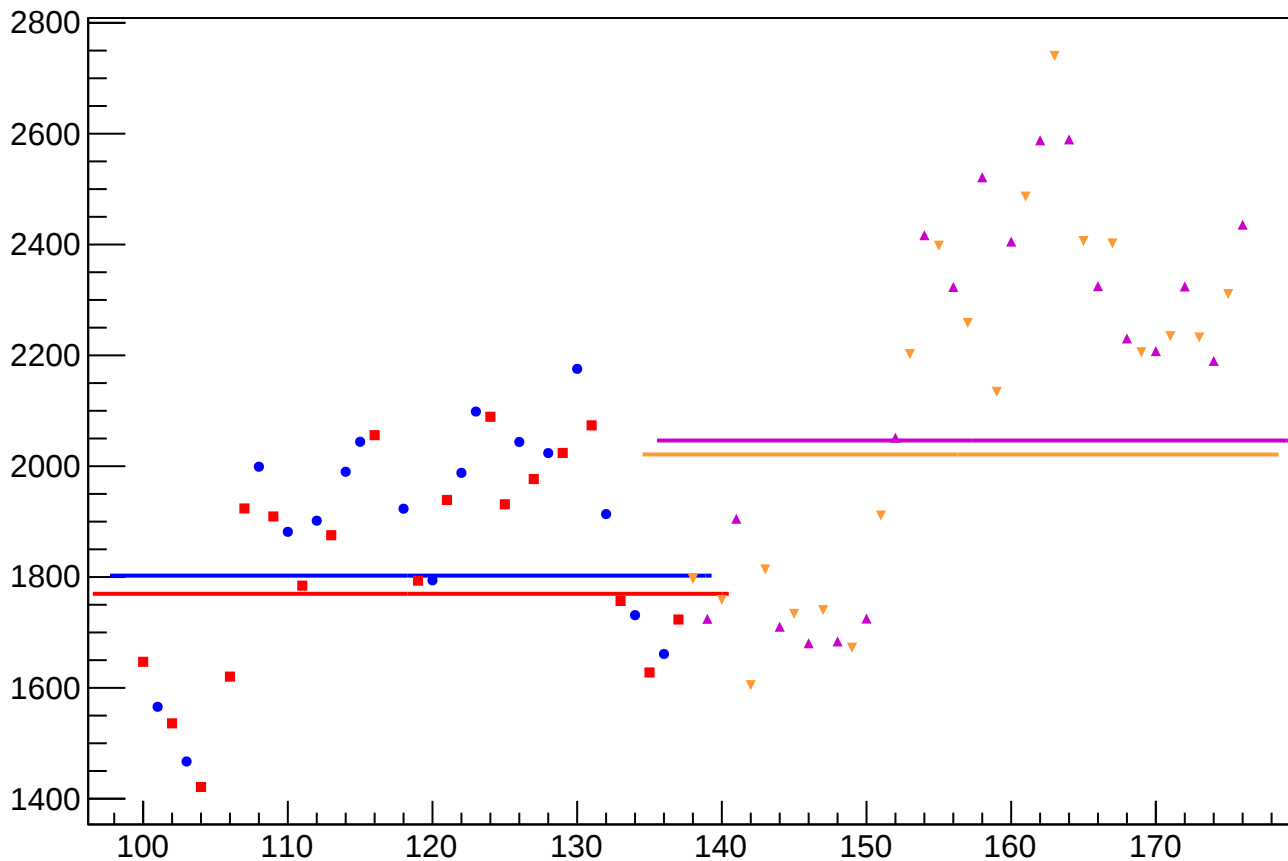
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -16.639 ± 0.428 χ^2/NDF : 24372.7/35

Out: -3.355 ± 0.414 χ^2/NDF : 6165.8/38

All: -9.764 ± 0.298 χ^2/NDF : 31036.0/74

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524 $\pm$ 0.495 χ^2 /NDF: 184069.0/16

Left Out: 2021.201 $\pm$ 0.373 χ^2 /NDF: 655644.5/19

Right Out: 1769.772 $\pm$ 0.471 χ^2 /NDF: 177893.4/18

Left In: 2046.353 $\pm$ 0.383 χ^2 /NDF: 707567.7/18

Left: 2033.438 $\pm$ 0.267 χ^2 /NDF: 1365423.7/38

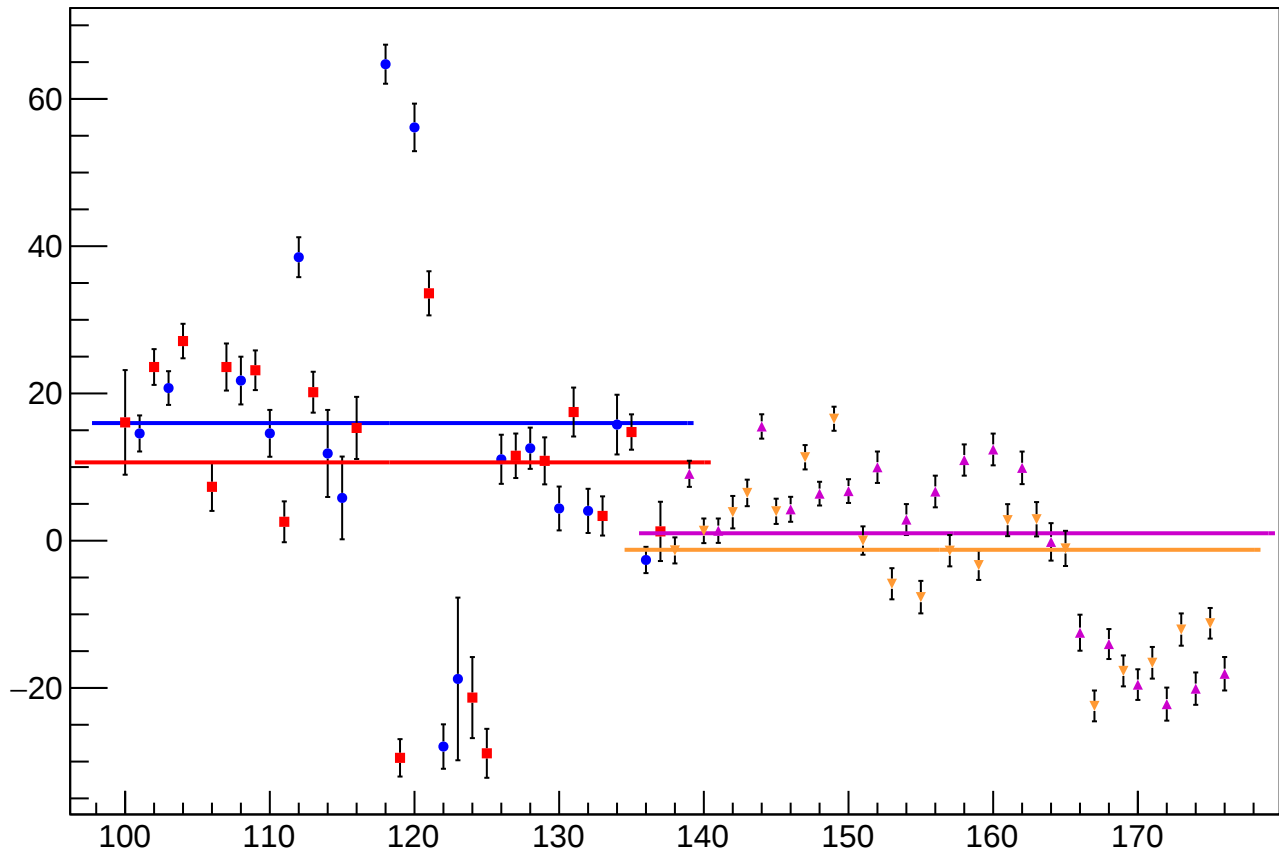
Right: 1785.358 $\pm$ 0.341 χ^2 /NDF: 364260.7/35

In: 1954.872 $\pm$ 0.303 χ^2 /NDF: 1043490.5/35

Out: 1924.340 $\pm$ 0.293 χ^2 /NDF: 1008515.5/38

All: 1939.071 $\pm$ 0.210 χ^2 /NDF: 2057262.7/74

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 χ^2/NDF : 938.4/16

Left Out: -1.235 ± 0.442 χ^2/NDF : 495.4/19

Right Out: 10.638 ± 0.693 χ^2/NDF : 642.1/18

Left In: 1.010 ± 0.454 χ^2/NDF : 668.7/18

Left: -0.141 ± 0.317 χ^2/NDF : 1176.7/38

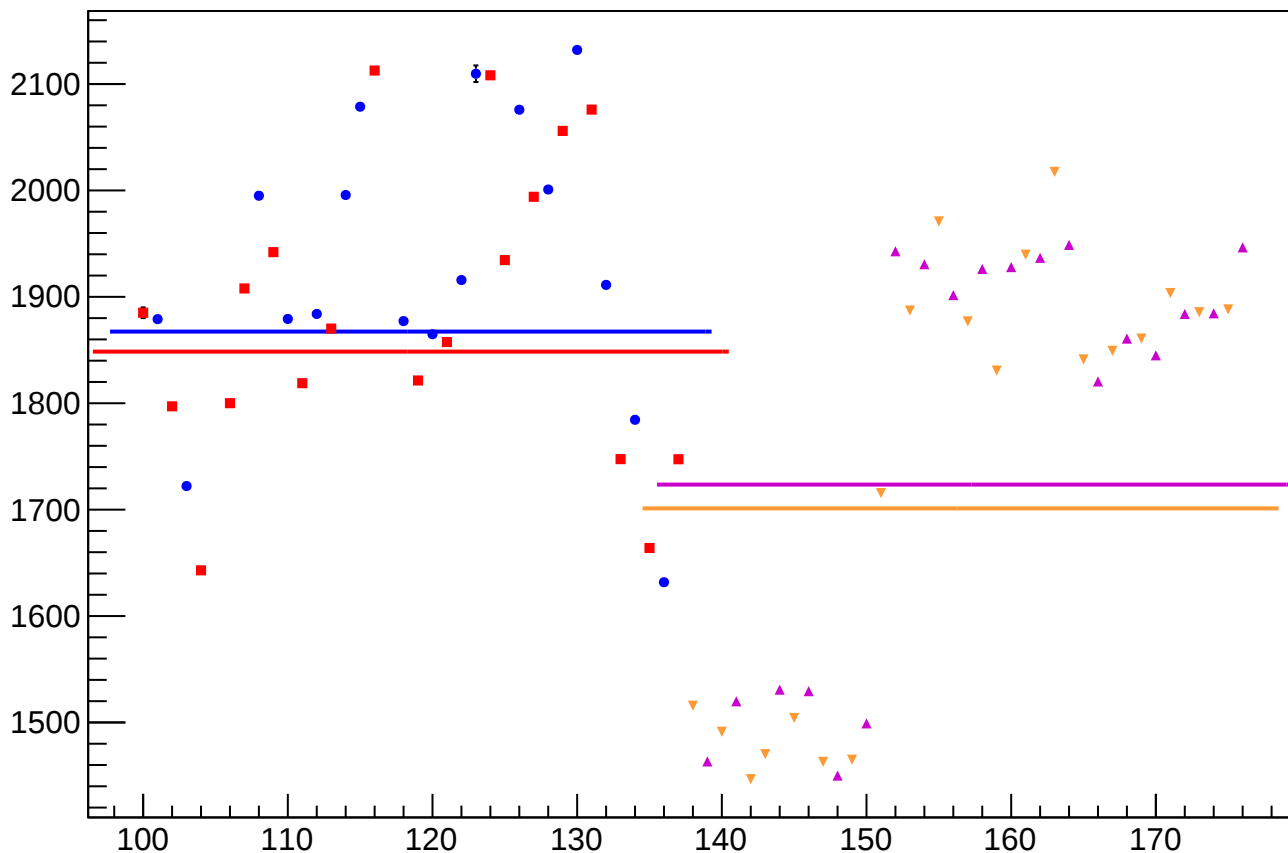
Right: 13.200 ± 0.500 χ^2/NDF : 1608.9/35

In: 5.248 ± 0.384 χ^2/NDF : 1915.4/35

Out: 2.196 ± 0.373 χ^2/NDF : 1346.0/38

All: 3.677 ± 0.267 χ^2/NDF : 3293.9/74

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2/NDF : 80926.4/16

Left Out: 1701.163 $\pm$ 0.313 χ^2/NDF : 427255.2/19

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: 1712.072 $\pm$ 0.224 χ^2/NDF : 836599.6/38

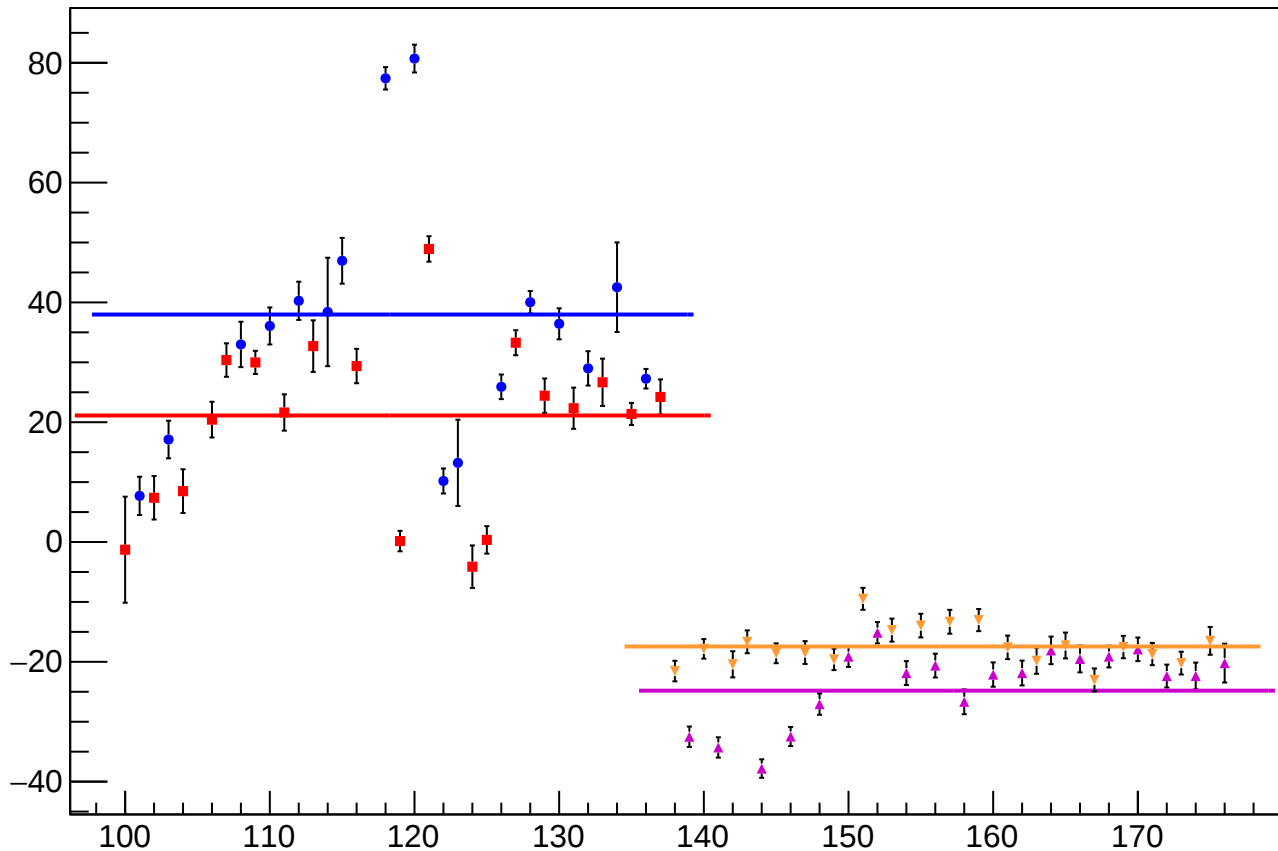
Right: 1857.561 $\pm$ 0.354 χ^2/NDF : 154160.4/35

In: 1764.278 $\pm$ 0.272 χ^2/NDF : 544685.2/35

Out: 1743.750 $\pm$ 0.264 χ^2/NDF : 564024.6/38

All: 1753.708 $\pm$ 0.189 χ^2/NDF : 1111652.5/74

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.437 ± 0.426 $\chi^2/\text{NDF}: 56.5/19$

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: -21.015 ± 0.305 $\chi^2/\text{NDF}: 441.8/38$

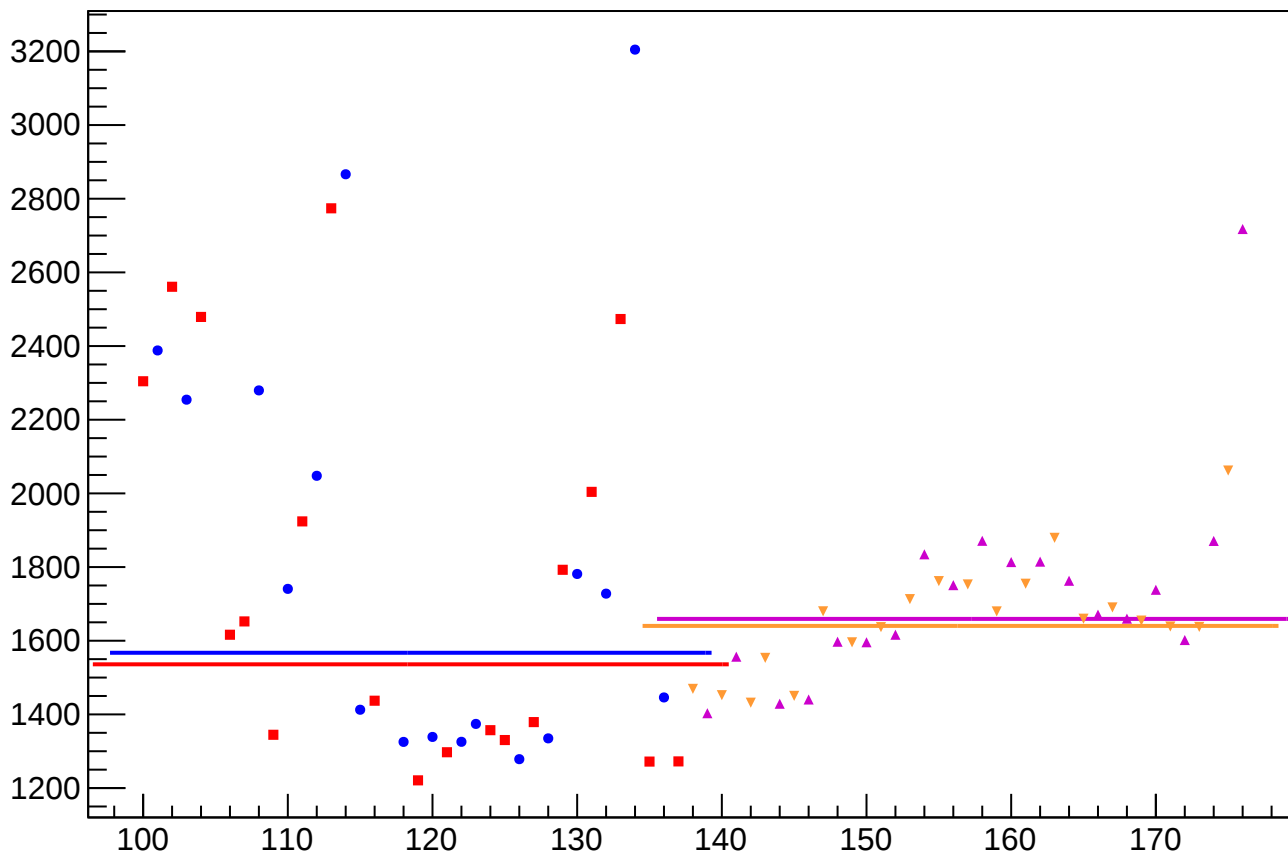
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -4.643 ± 0.361 $\chi^2/\text{NDF}: 8031.9/35$

Out: -4.767 ± 0.349 $\chi^2/\text{NDF}: 3328.0/38$

All: -4.707 ± 0.251 $\chi^2/\text{NDF}: 11359.9/74$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2 /NDF: 673450.6/16

Left Out: 1640.261 $\pm$ 0.301 χ^2 /NDF: 213638.4/19

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: 1649.484 $\pm$ 0.216 χ^2 /NDF: 660231.6/38

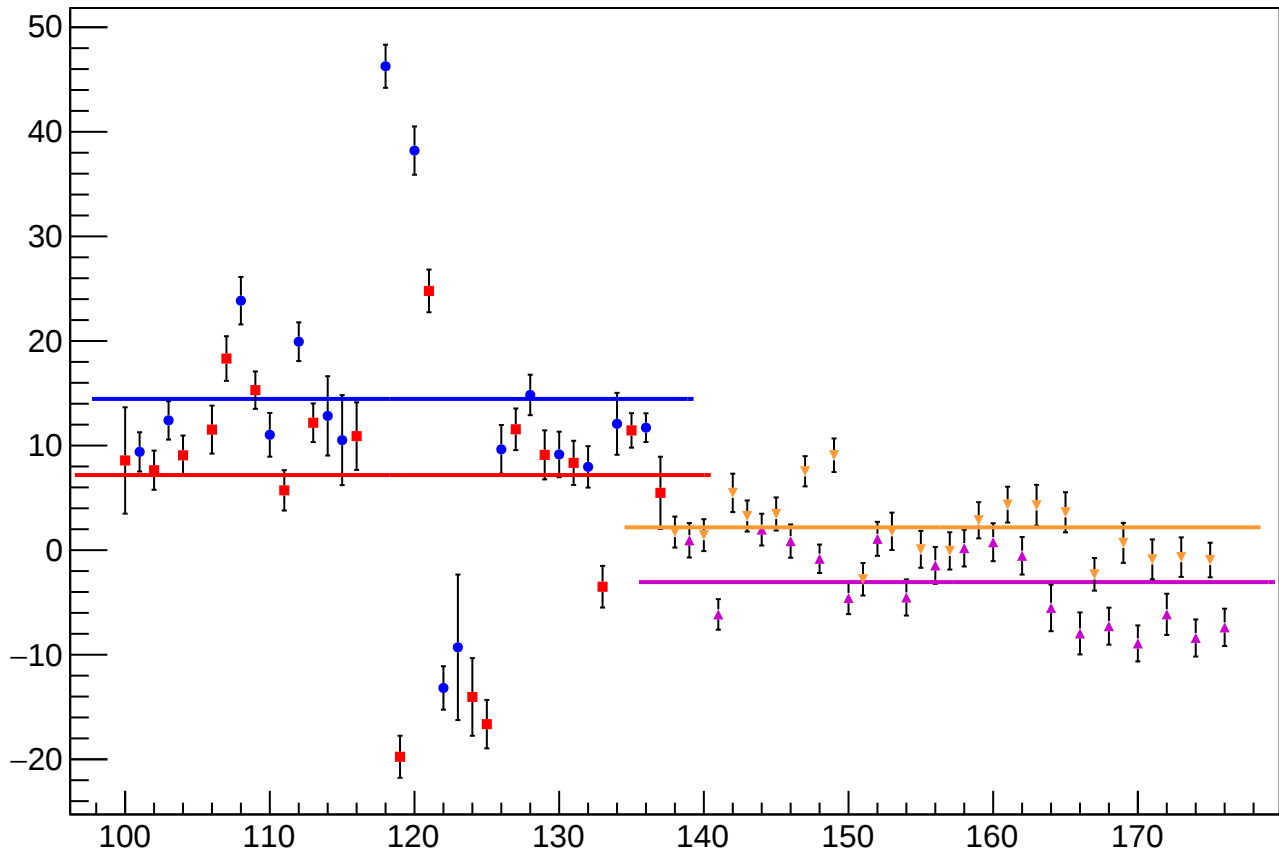
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1629.738 $\pm$ 0.255 χ^2 /NDF: 1146359.3/35

Out: 1605.994 $\pm$ 0.247 χ^2 /NDF: 1135205.8/38

All: 1617.447 $\pm$ 0.177 χ^2 /NDF: 2286038.1/74

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 $\pm$ 0.523 χ^2 /NDF: 595.9/16

Left Out: 2.181 $\pm$ 0.376 χ^2 /NDF: 71.1/19

Right Out: 7.181 $\pm$ 0.494 χ^2 /NDF: 495.7/18

Left In: -3.054 $\pm$ 0.389 χ^2 /NDF: 90.7/18

Left: -0.345 $\pm$ 0.270 χ^2 /NDF: 255.4/38

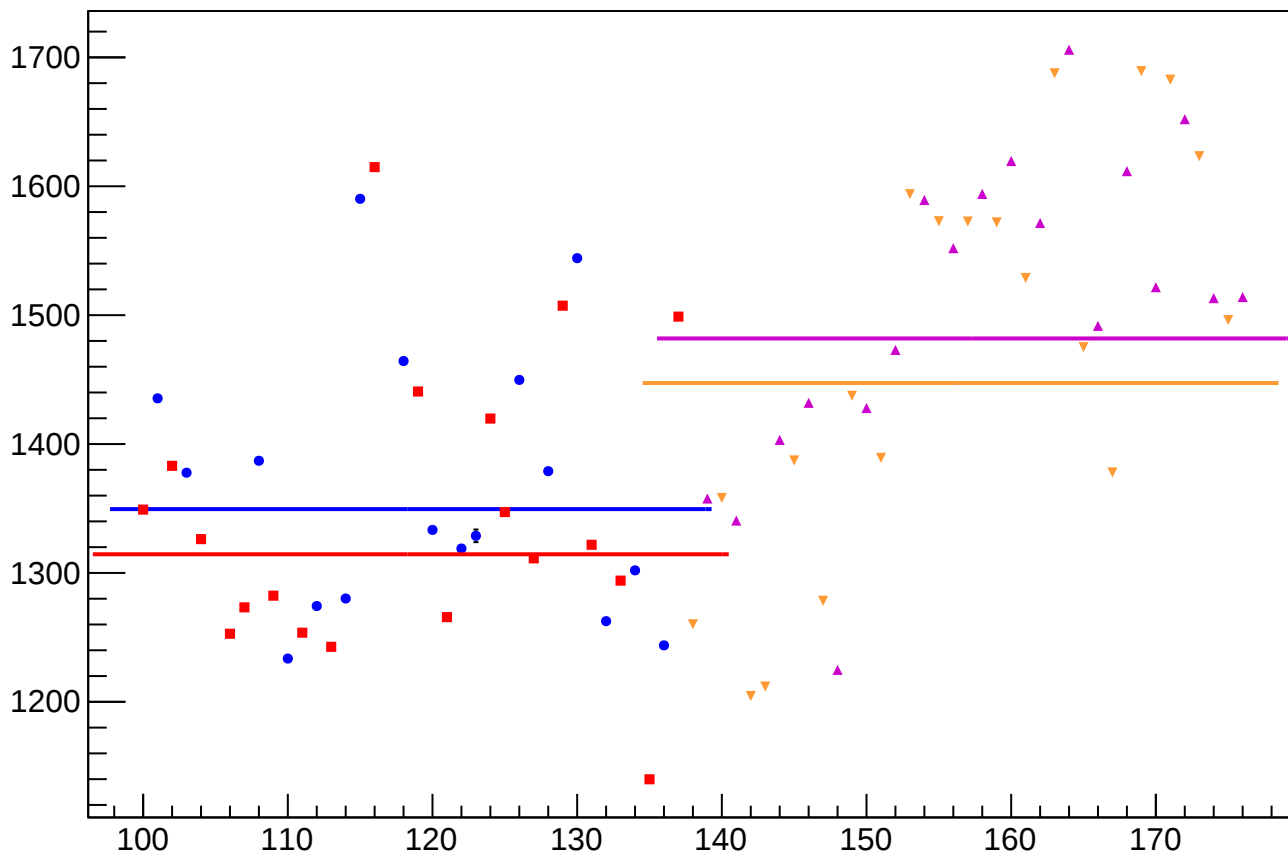
Right: 10.615 $\pm$ 0.359 χ^2 /NDF: 1193.9/35

In: 3.186 $\pm$ 0.312 χ^2 /NDF: 1408.0/35

Out: 4.013 $\pm$ 0.299 χ^2 /NDF: 631.5/38

All: 3.617 $\pm$ 0.216 χ^2 /NDF: 2043.2/74

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1447.347 $\pm$ 0.266 χ^2 /NDF:321568.0/19

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: 1464.035 $\pm$ 0.191 χ^2 /NDF: 524875.6/38

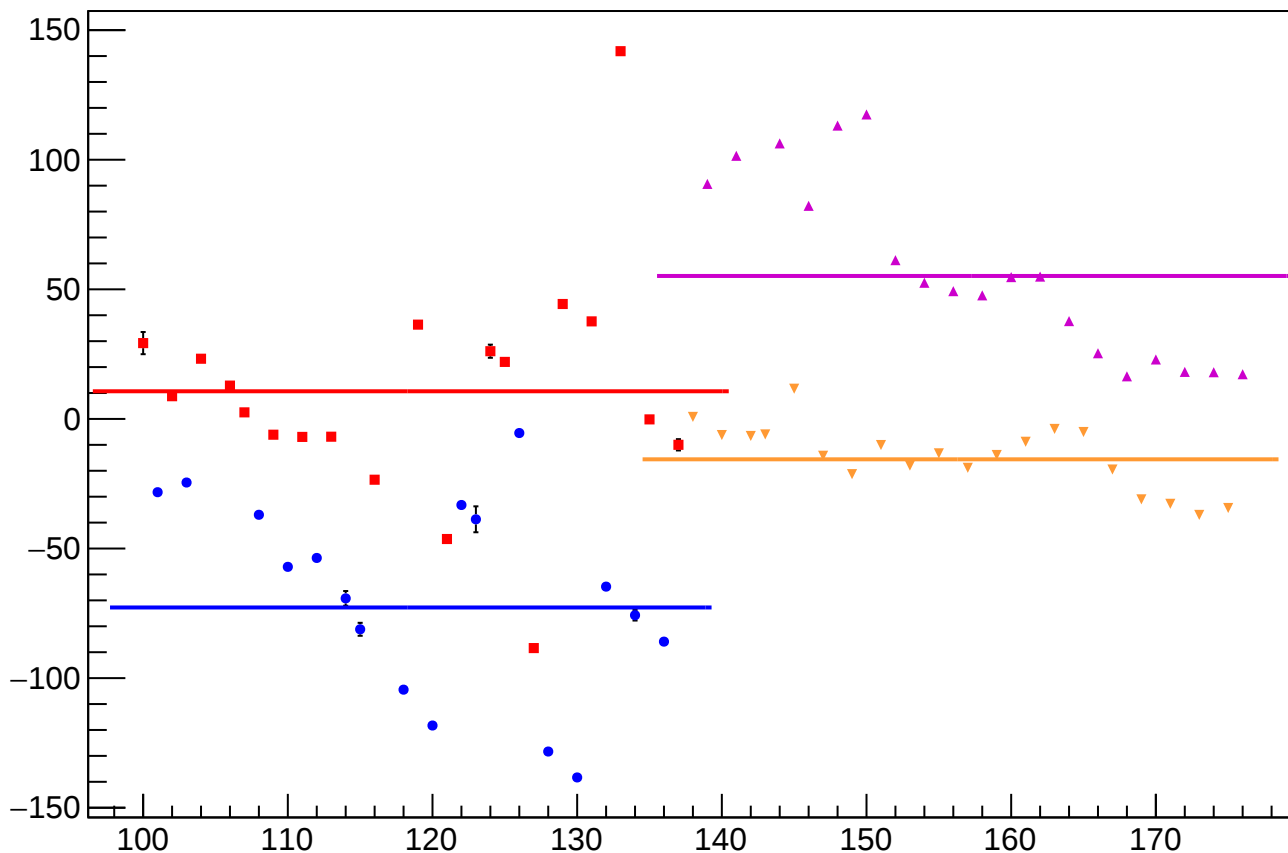
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1434.756 $\pm$ 0.221 χ^2 /NDF:342259.8/35

Out: 1398.670 $\pm$ 0.212 χ^2 /NDF:494051.7/38

All: 1415.943 $\pm$ 0.153 χ^2 /NDF: 850233.7/74

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741±/0.362 χ^2 /NDF: 11690.4/16

Left Out: -15.581±/0.235 χ^2 /NDF:2875.4/19

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: 19.056±/0.168 χ^2 /NDF: 66886.7/38

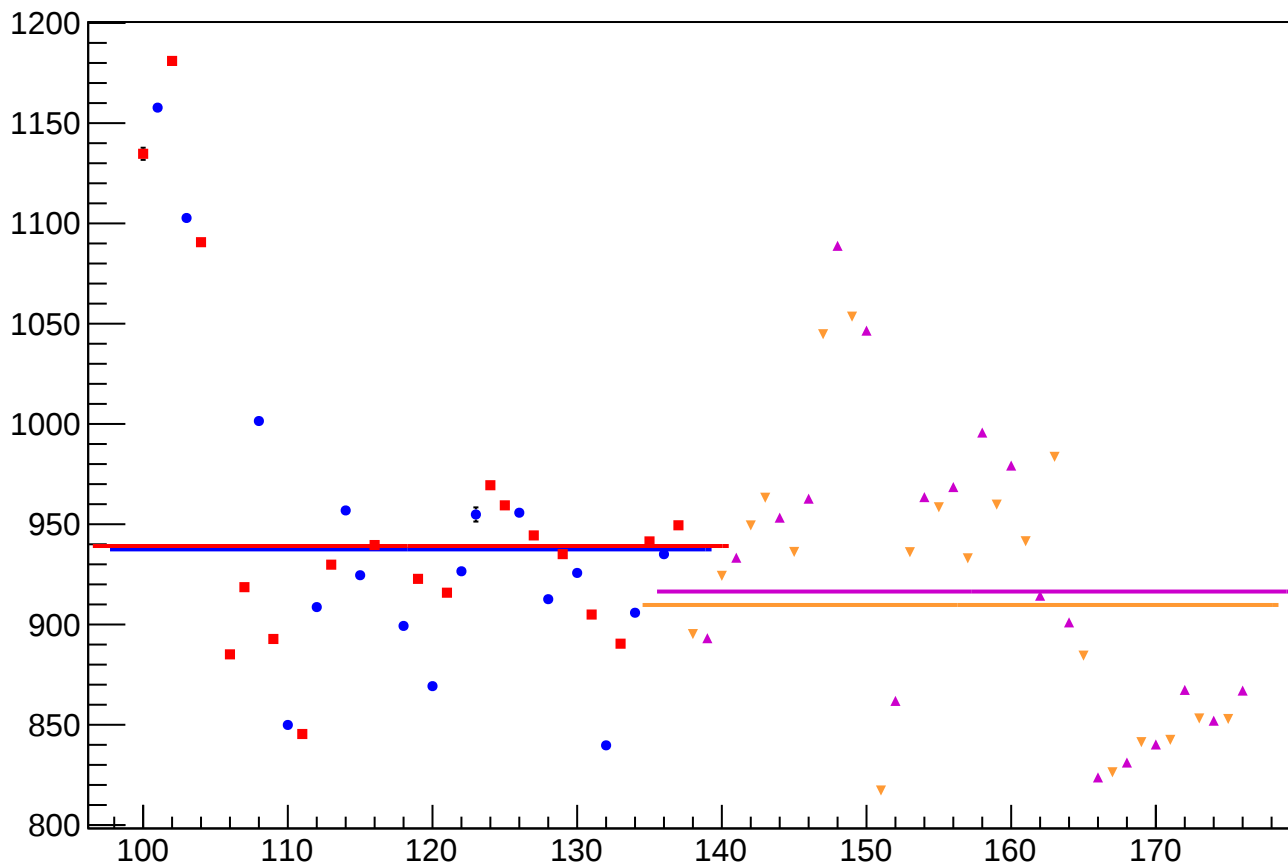
Right: -29.865±/0.253 χ^2 /NDF: 57099.2/35

In: 16.104±/0.200 χ^2 /NDF:117996.6/35

Out: -7.483±/0.196 χ^2 /NDF:24885.5/38

All: 4.040±/0.140 χ^2 /NDF: 149980.0/74

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 909.741 ± 0.166 χ^2/NDF : 156430.0/19

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: 913.020 ± 0.119 χ^2/NDF : 327046.7/38

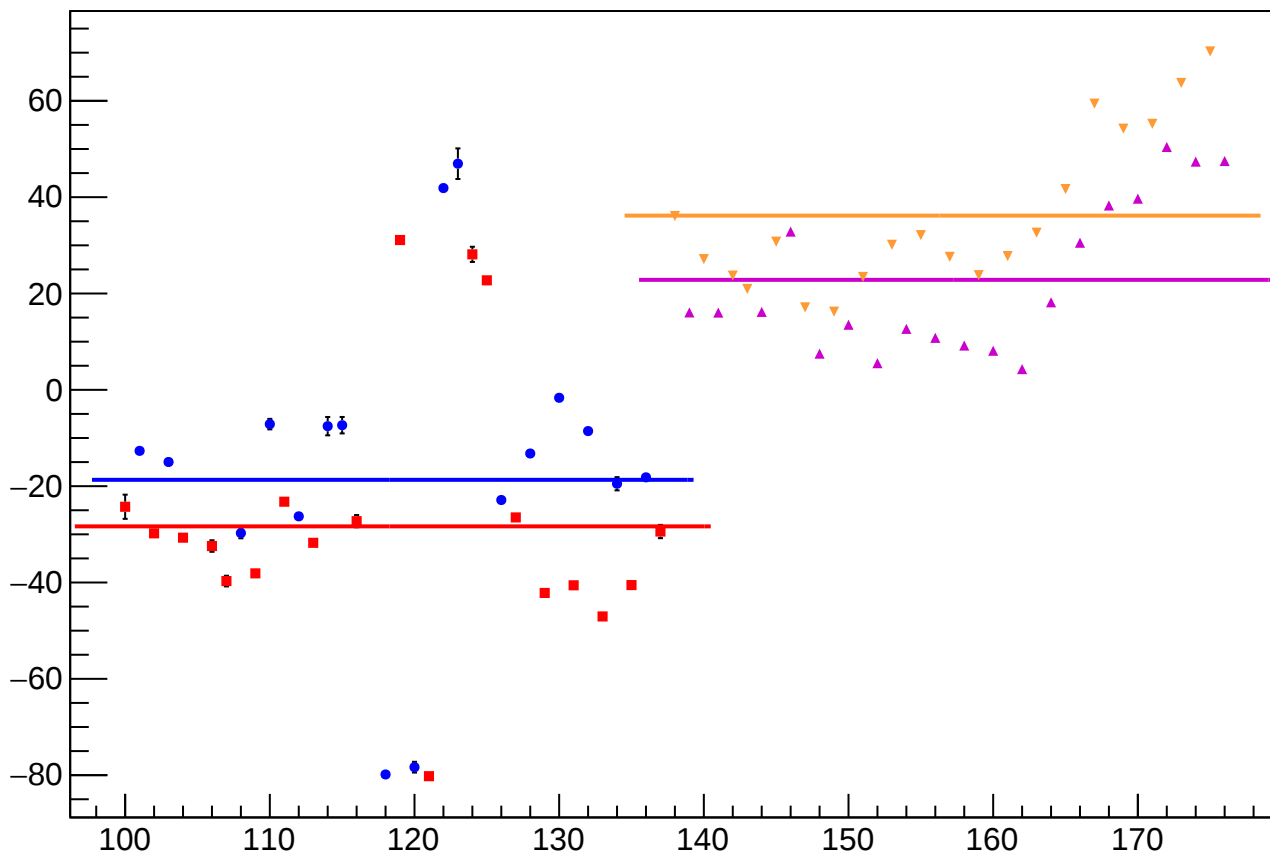
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 922.855 ± 0.142 χ^2/NDF : 272804.4/35

Out: 918.809 ± 0.138 χ^2/NDF : 256313.0/38

All: 920.786 ± 0.099 χ^2/NDF : 529535.0/74

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 36.175 ± 0.185 $\chi^2/\text{NDF}: 7791.7/19$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 22.836 ± 0.190 $\chi^2/\text{NDF}: 6344.5/18$

Left: 29.677 ± 0.132 $\chi^2/\text{NDF}: 16668.3/38$

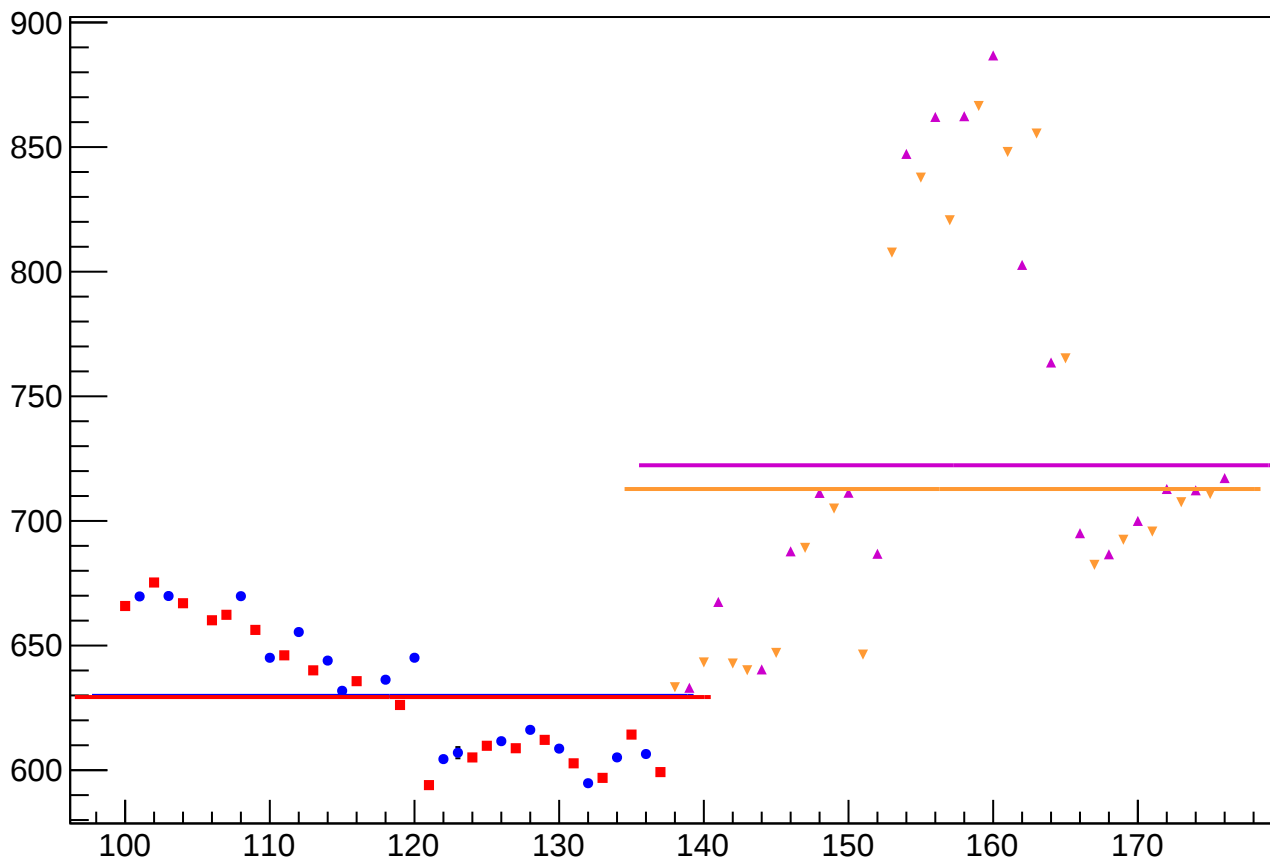
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: 7.074 ± 0.150 $\chi^2/\text{NDF}: 37512.2/35$

Out: 11.545 ± 0.145 $\chi^2/\text{NDF}: 66725.5/38$

All: 9.371 ± 0.104 $\chi^2/\text{NDF}: 104697.0/74$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 712.808+/-0.131 χ^2/NDF : 332292.8/19

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: 717.449+/-0.094 χ^2/NDF : 613150.0/38

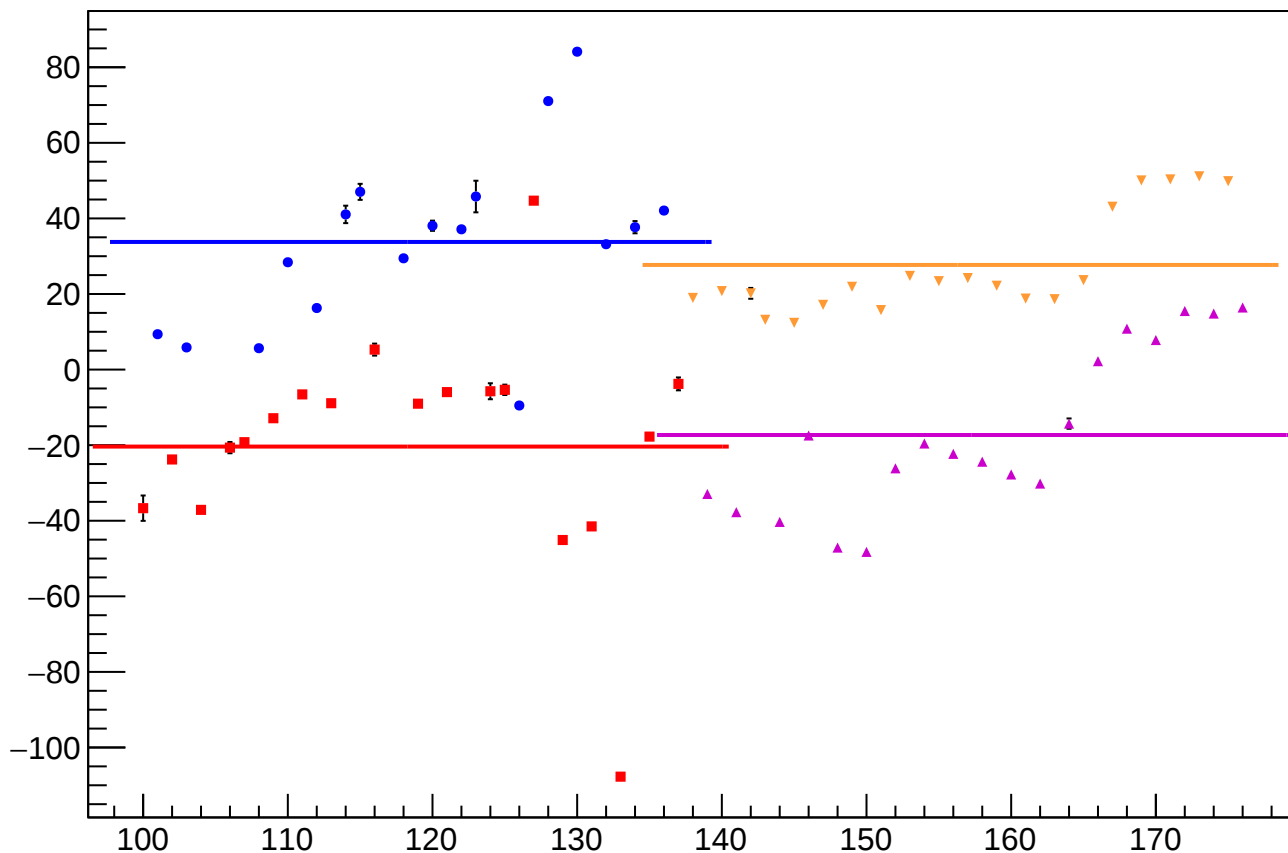
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 687.211+/-0.106 χ^2/NDF : 481938.7/35

Out: 680.945+/-0.103 χ^2/NDF : 513220.0/38

All: 683.993+/-0.074 χ^2/NDF : 996963.1/74

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773 $\pm$ 0.300 χ^2 /NDF: 6487.9/16

Left Out: 27.689 $\pm$ 0.263 χ^2 /NDF: 2664.2/19

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: 5.552 $\pm$ 0.188 χ^2 /NDF: 23552.4/38

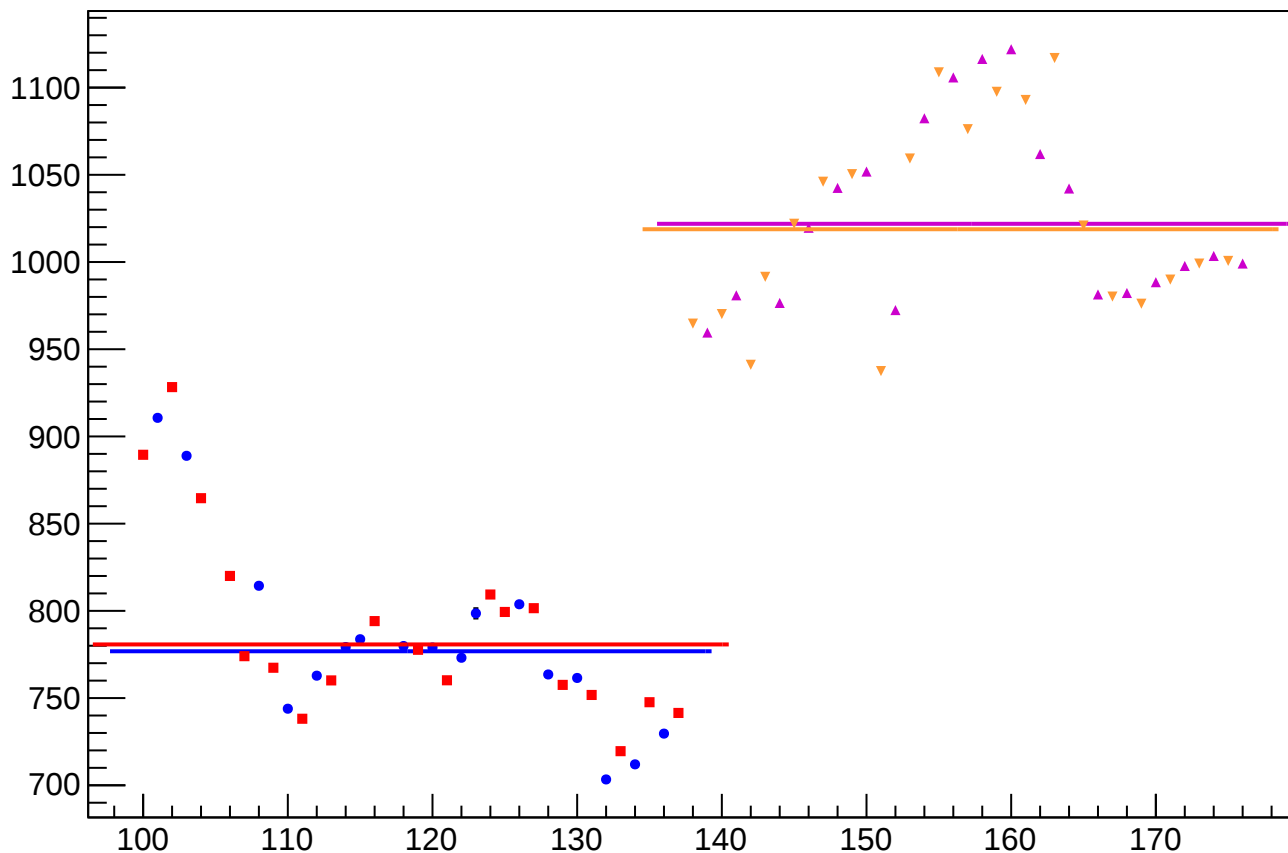
Right: 6.025 $\pm$ 0.209 χ^2 /NDF: 34481.3/35

In: 5.316 $\pm$ 0.200 χ^2 /NDF: 29152.9/35

Out: 6.191 $\pm$ 0.196 χ^2 /NDF: 28873.8/38

All: 5.763 $\pm$ 0.140 χ^2 /NDF: 58036.5/74

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2/NDF : 67487.1/16

Left Out: 1018.793 $\pm$ 0.186 χ^2/NDF : 82571.8/19

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: 1020.326 $\pm$ 0.133 χ^2/NDF : 151266.0/38

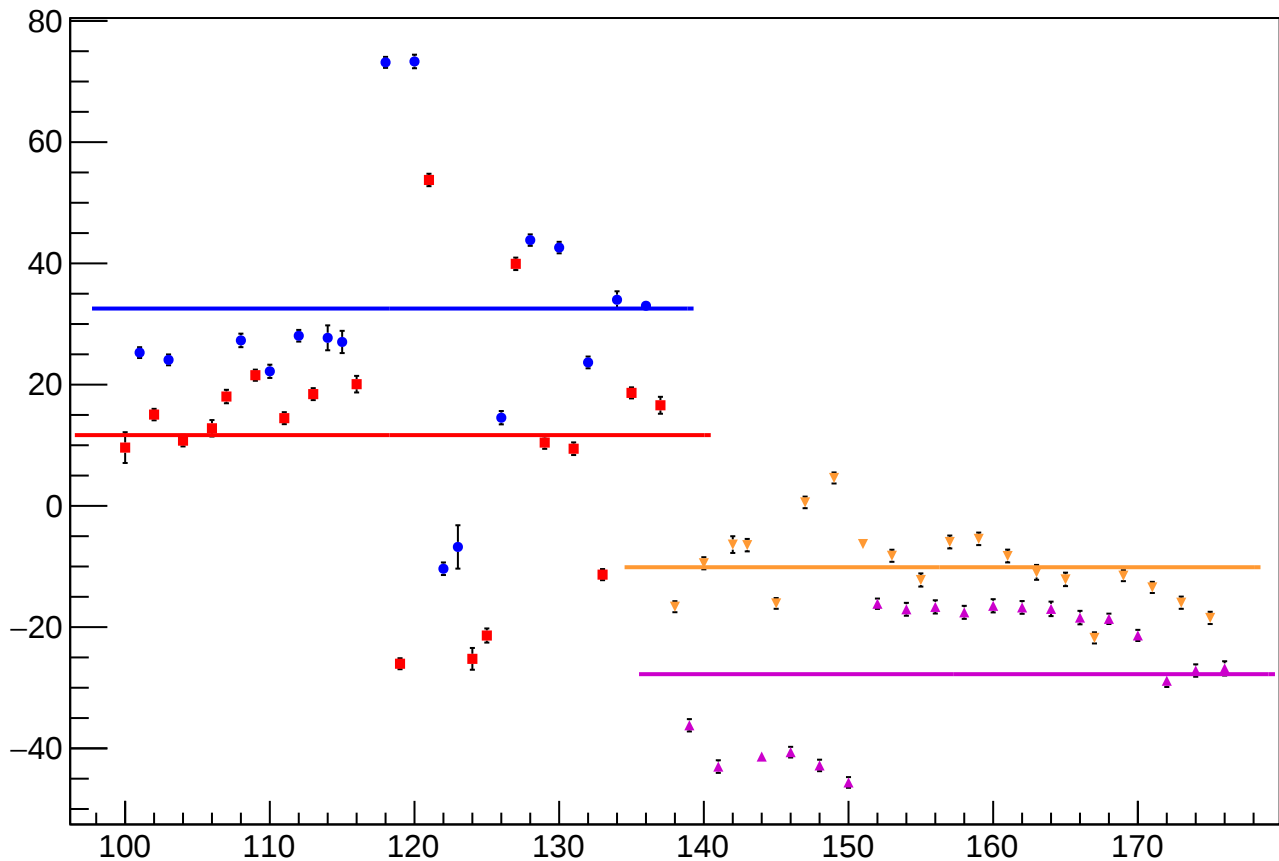
Right: 778.845 $\pm$ 0.148 χ^2/NDF : 125090.9/35

In: 913.353 $\pm$ 0.141 χ^2/NDF : 880030.4/35

Out: 912.324 $\pm$ 0.138 χ^2/NDF : 872005.0/38

All: 912.828 $\pm$ 0.099 χ^2/NDF : 1752062.5/74

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -10.120 ± 0.222 χ^2/NDF : 853.0/19

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: -18.739 ± 0.159 χ^2/NDF : 6380.2/38

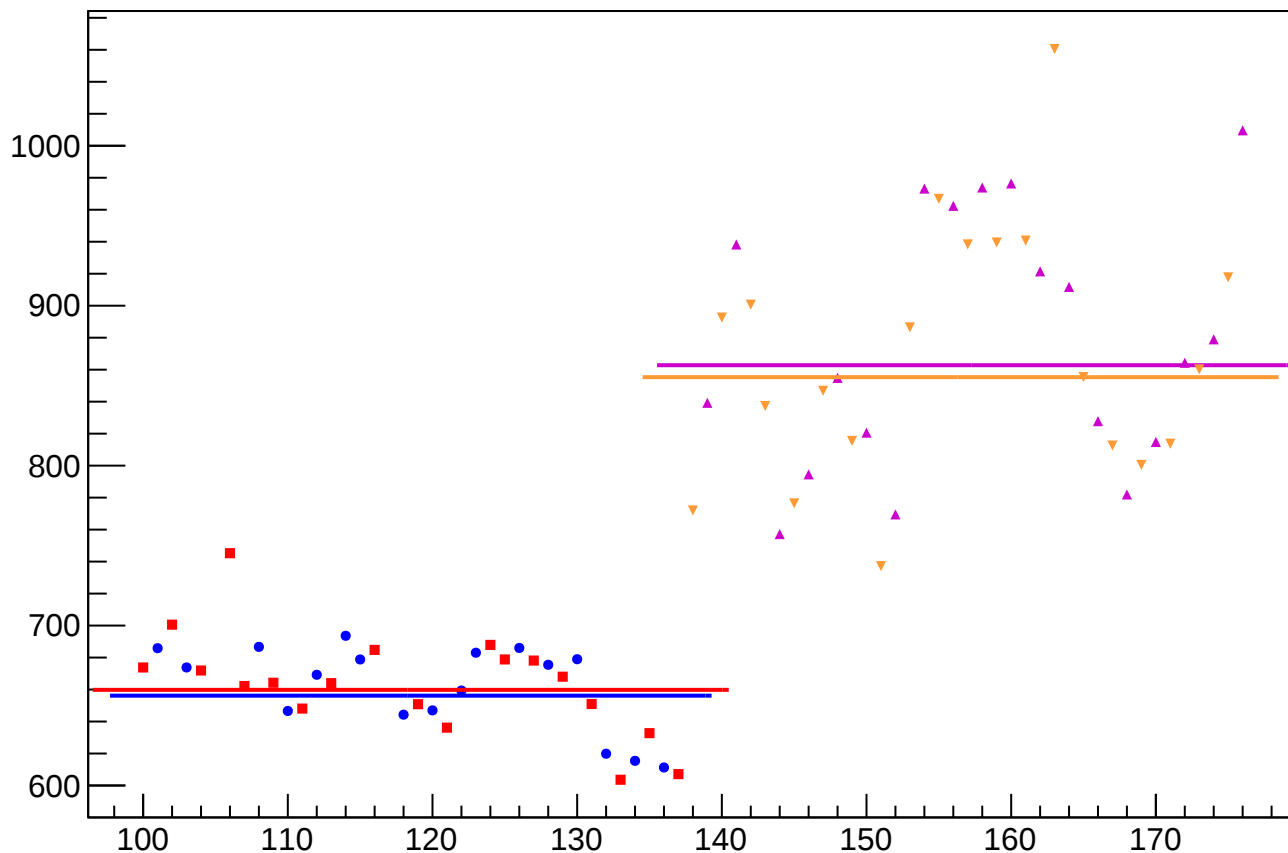
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: -0.845 ± 0.169 χ^2/NDF : 40014.3/35

Out: -0.387 ± 0.165 χ^2/NDF : 11519.2/38

All: -0.610 ± 0.118 χ^2/NDF : 51537.3/74

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181+/-0.179 χ^2/NDF : 23569.6/16

Left Out: 855.315+/-0.157 χ^2/NDF :224208.9/19

Right Out: 659.813+/-0.175 χ^2/NDF : 28325.7/18

Left In: 862.787+/-0.161 χ^2/NDF :232401.8/18

Left: 858.966+/-0.112 χ^2/NDF : 457718.8/38

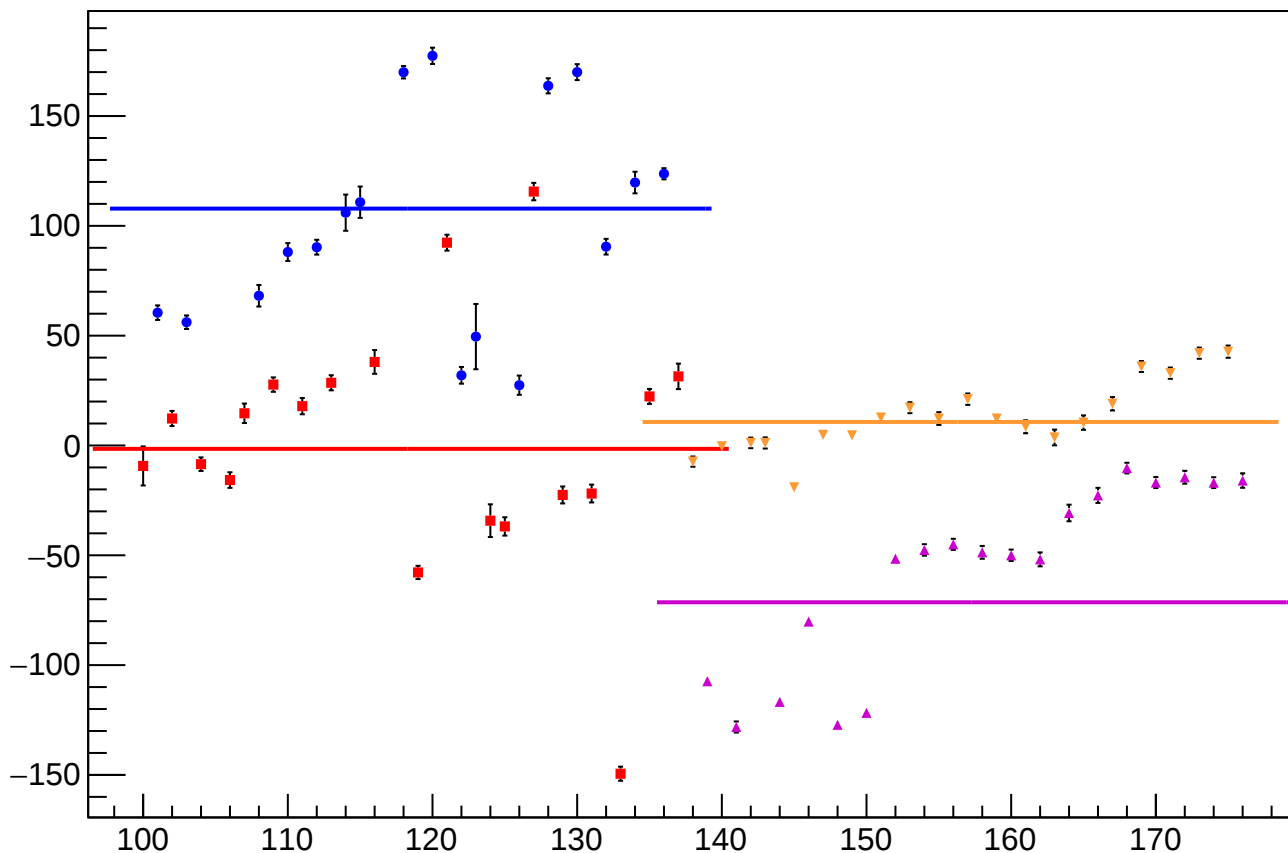
Right: 658.039+/-0.125 χ^2/NDF : 52106.5/35

In: 770.584+/-0.119 χ^2/NDF :995304.9/35

Out: 768.002+/-0.117 χ^2/NDF :945963.5/38

All: 769.263+/-0.083 χ^2/NDF : 1941507.5/74

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 10.712 ± 0.539 $\chi^2/\text{NDF}: 849.0/19$

Right Out: -1.542 ± 0.883 $\chi^2/\text{NDF}: 4523.8/18$

Left In: -71.398 ± 0.547 $\chi^2/\text{NDF}: 6172.3/18$

Left: -29.761 ± 0.384 $\chi^2/\text{NDF}: 18441.9/38$

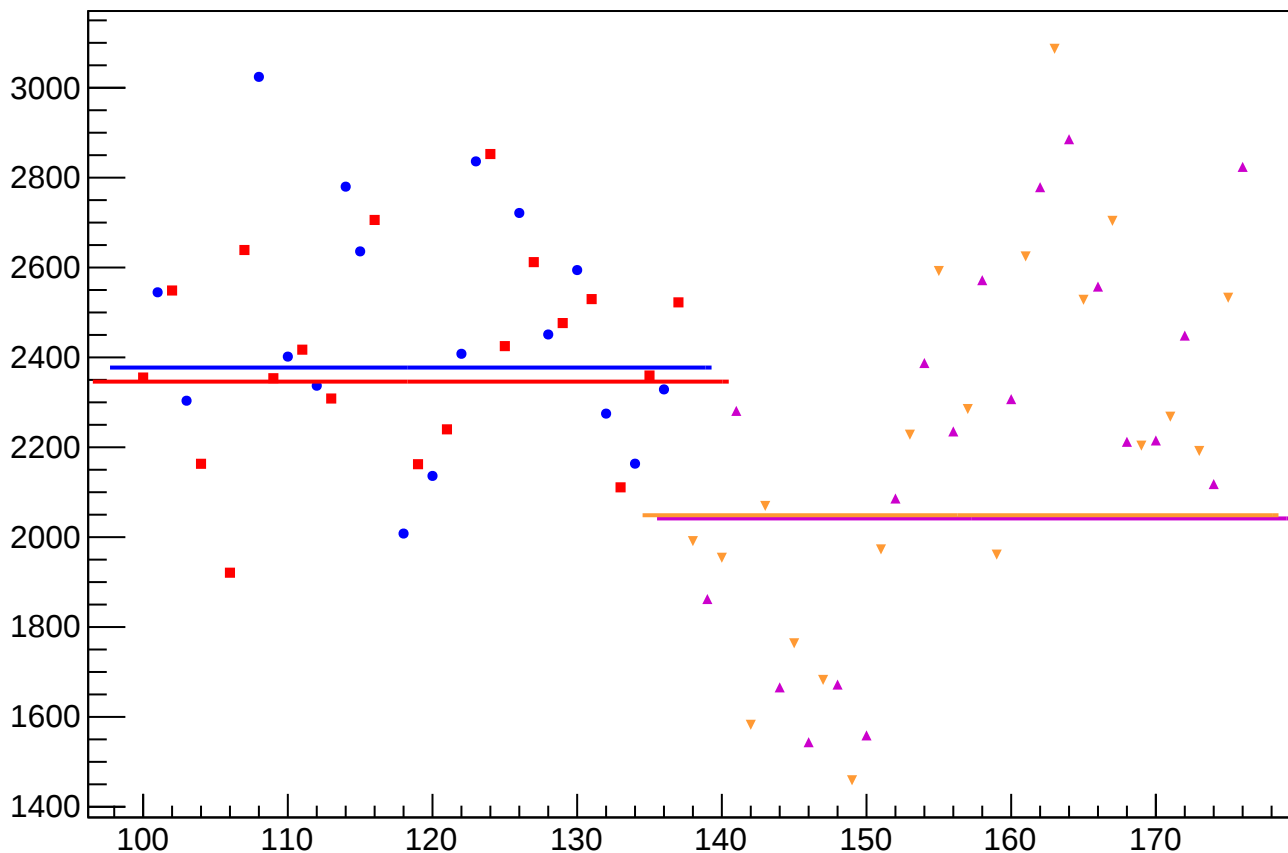
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -24.680 ± 0.470 $\chi^2/\text{NDF}: 36955.3/35$

Out: 7.383 ± 0.460 $\chi^2/\text{NDF}: 5512.9/38$

All: -8.301 ± 0.329 $\chi^2/\text{NDF}: 44841.0/74$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423 $\pm$ 0.652 χ^2/NDF : 119648.6/16

Left Out: 2048.781 $\pm$ 0.381 χ^2/NDF : 1023570.2/19

Right Out: 2346.121 $\pm$ 0.625 χ^2/NDF : 108257.3/18

Left In: 2041.661 $\pm$ 0.387 χ^2/NDF : 1086437.9/18

Left: 2045.272 $\pm$ 0.272 χ^2/NDF : 2110179.9/38

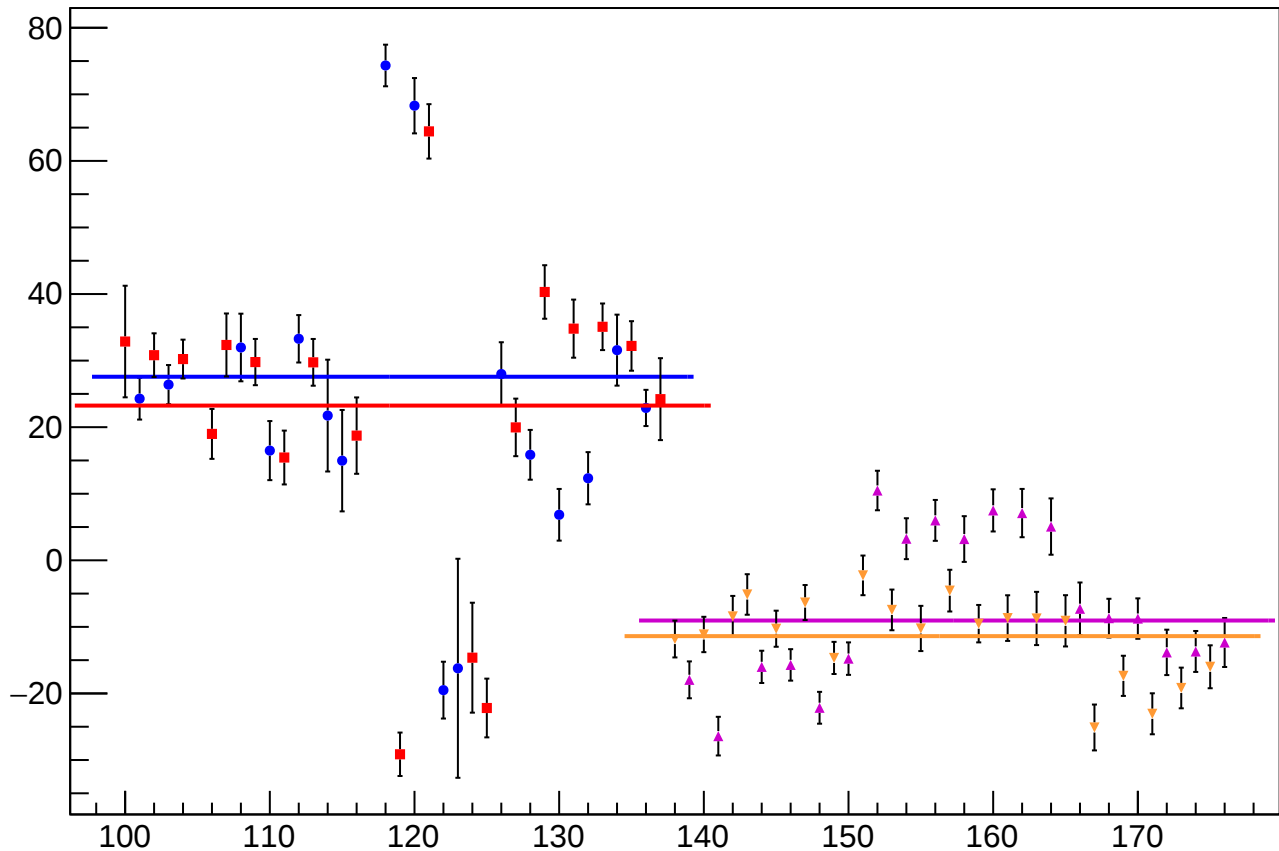
Right: 2361.109 $\pm$ 0.451 χ^2/NDF : 229108.5/35

In: 2129.171 $\pm$ 0.333 χ^2/NDF : 1402391.0/35

Out: 2129.550 $\pm$ 0.326 χ^2/NDF : 1296892.7/38

All: 2129.365 $\pm$ 0.233 χ^2/NDF : 2699284.4/74

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 χ^2/NDF : 519.6/16

Left Out: -11.390 ± 0.676 χ^2/NDF : 71.3/19

Right Out: 23.243 ± 0.927 χ^2/NDF : 557.9/18

Left In: -9.044 ± 0.684 χ^2/NDF : 257.4/18

Left: -10.231 ± 0.481 χ^2/NDF : 334.7/38

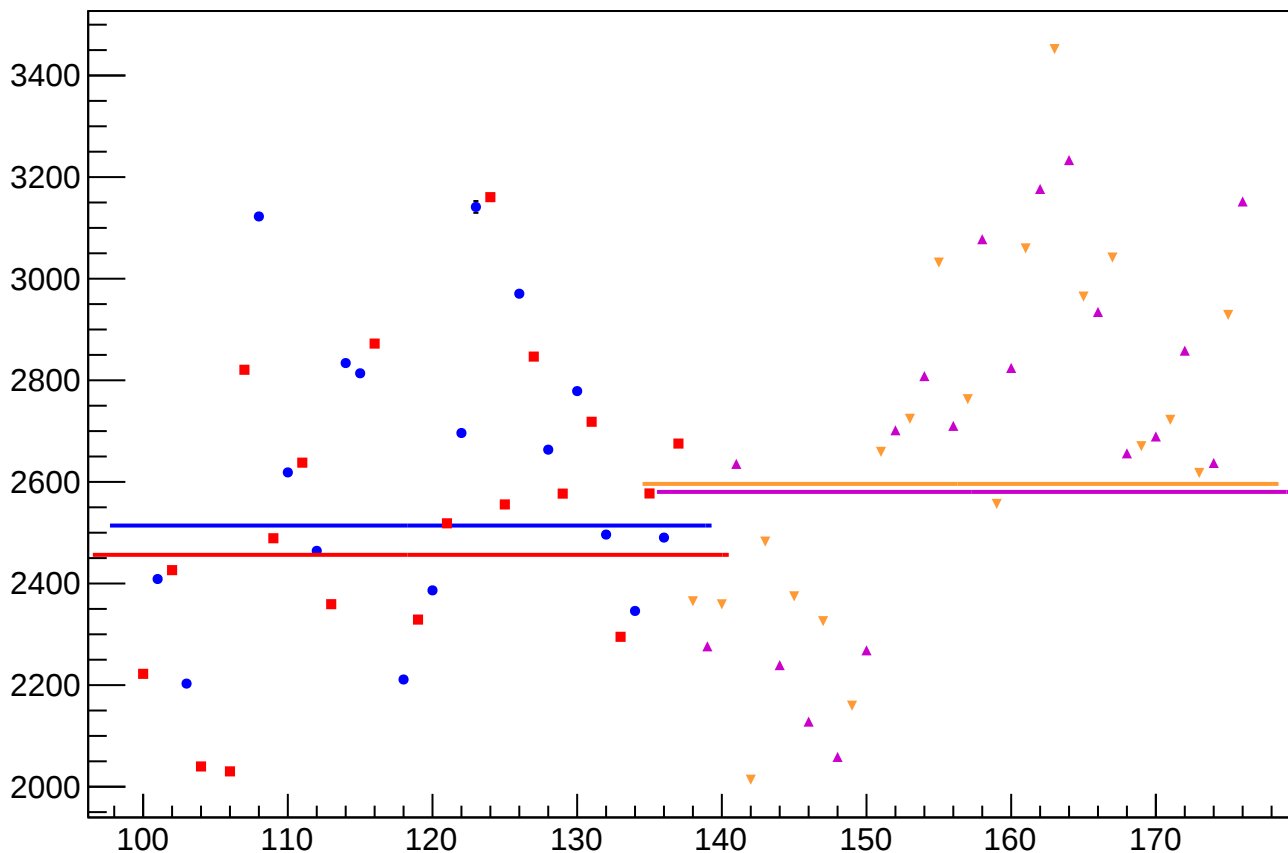
Right: 25.301 ± 0.672 χ^2/NDF : 1087.8/35

In: 3.030 ± 0.560 χ^2/NDF : 1723.0/35

Out: 0.625 ± 0.546 χ^2/NDF : 1540.8/38

All: 1.798 ± 0.391 χ^2/NDF : 3273.2/74

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 $\pm$ 0.689 χ^2/NDF : 120961.3/16

Left Out: 2596.090 $\pm$ 0.478 χ^2/NDF : 453300.7/19

Right Out: 2456.460 $\pm$ 0.655 χ^2/NDF : 149732.7/18

Left In: 2580.306 $\pm$ 0.483 χ^2/NDF : 521211.5/18

Left: 2588.291 $\pm$ 0.340 χ^2/NDF : 975051.5/38

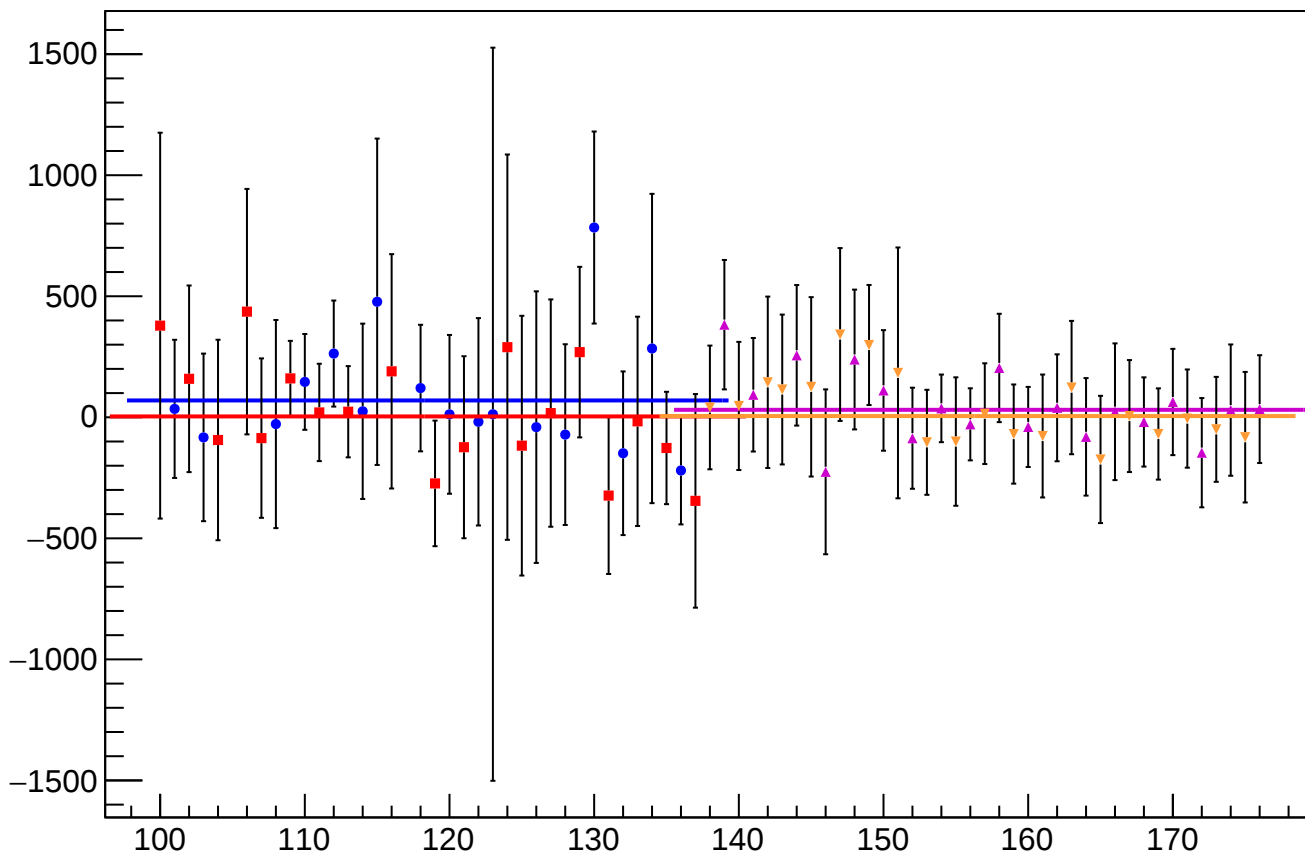
Right: 2483.827 $\pm$ 0.475 χ^2/NDF : 274364.7/35

In: 2558.473 $\pm$ 0.396 χ^2/NDF : 648359.1/35

Out: 2547.650 $\pm$ 0.386 χ^2/NDF : 632667.9/38

All: 2552.927 $\pm$ 0.276 χ^2/NDF : 1281410.2/74

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: 5.051 $\pm$ 56.357 χ^2 /NDF:4.5/19

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: 19.685 $\pm$ 37.137 χ^2 /NDF: 10.4/38

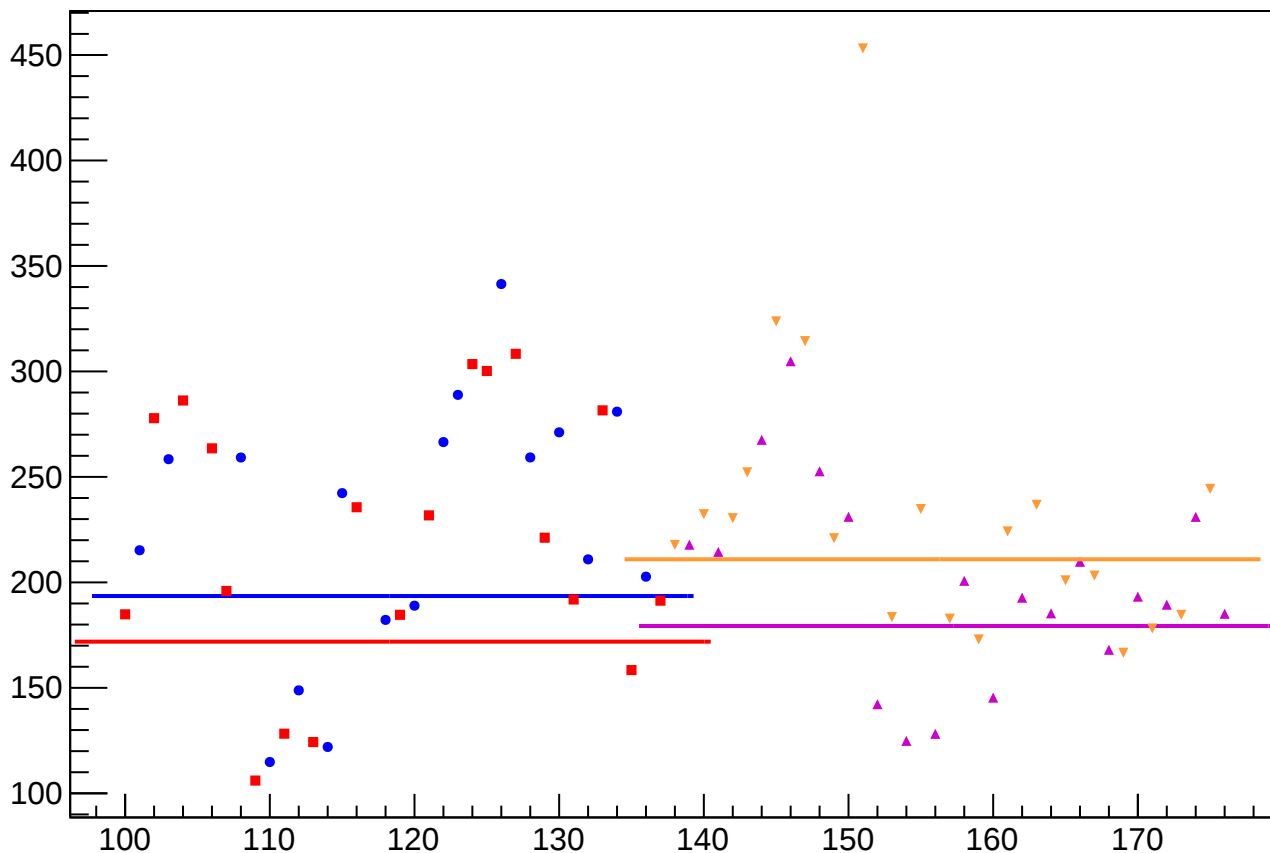
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 41.772 $\pm$ 41.872 χ^2 /NDF:13.3/35

Out: 4.465 $\pm$ 43.893 χ^2 /NDF:10.9/38

All: 23.998 $\pm$ 30.297 χ^2 /NDF: 24.5/74

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533 $\pm$ 0.056 χ^2 /NDF: 1010428.2/16

Left Out: 210.951 $\pm$ 0.040 χ^2 /NDF:1253837.1/19

Right Out: 171.901 $\pm$ 0.049 χ^2 /NDF: 1576883.7/18

Left In: 179.325 $\pm$ 0.035 χ^2 /NDF:1589452.8/18

Left: 193.057 $\pm$ 0.026 χ^2 /NDF: 3199643.8/38

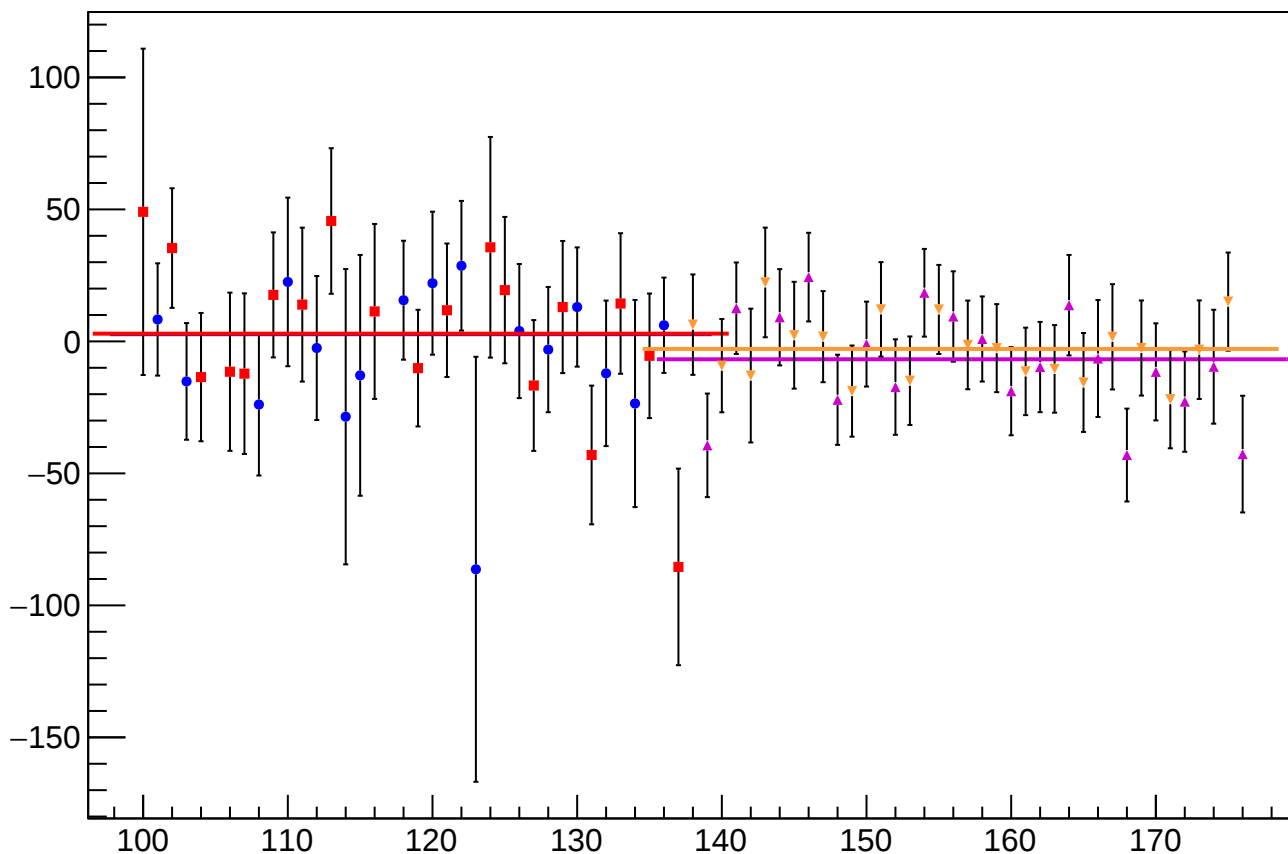
Right: 181.409 $\pm$ 0.037 χ^2 /NDF: 2671312.8/35

In: 183.314 $\pm$ 0.030 χ^2 /NDF:2646385.2/35

Out: 195.588 $\pm$ 0.031 χ^2 /NDF:3208494.6/38

All: 189.162 $\pm$ 0.021 χ^2 /NDF: 5936765.4/74

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 $\pm$ 6.424 χ^2 /NDF: 6.8/16

Left Out: -2.860 $\pm$ 4.059 χ^2 /NDF:8.0/19

Right Out: 2.928 $\pm$ 6.279 χ^2 /NDF: 17.8/18

Left In: -6.773 $\pm$ 4.128 χ^2 /NDF:22.3/18

Left: -4.783 $\pm$ 2.894 χ^2 /NDF: 30.7/38

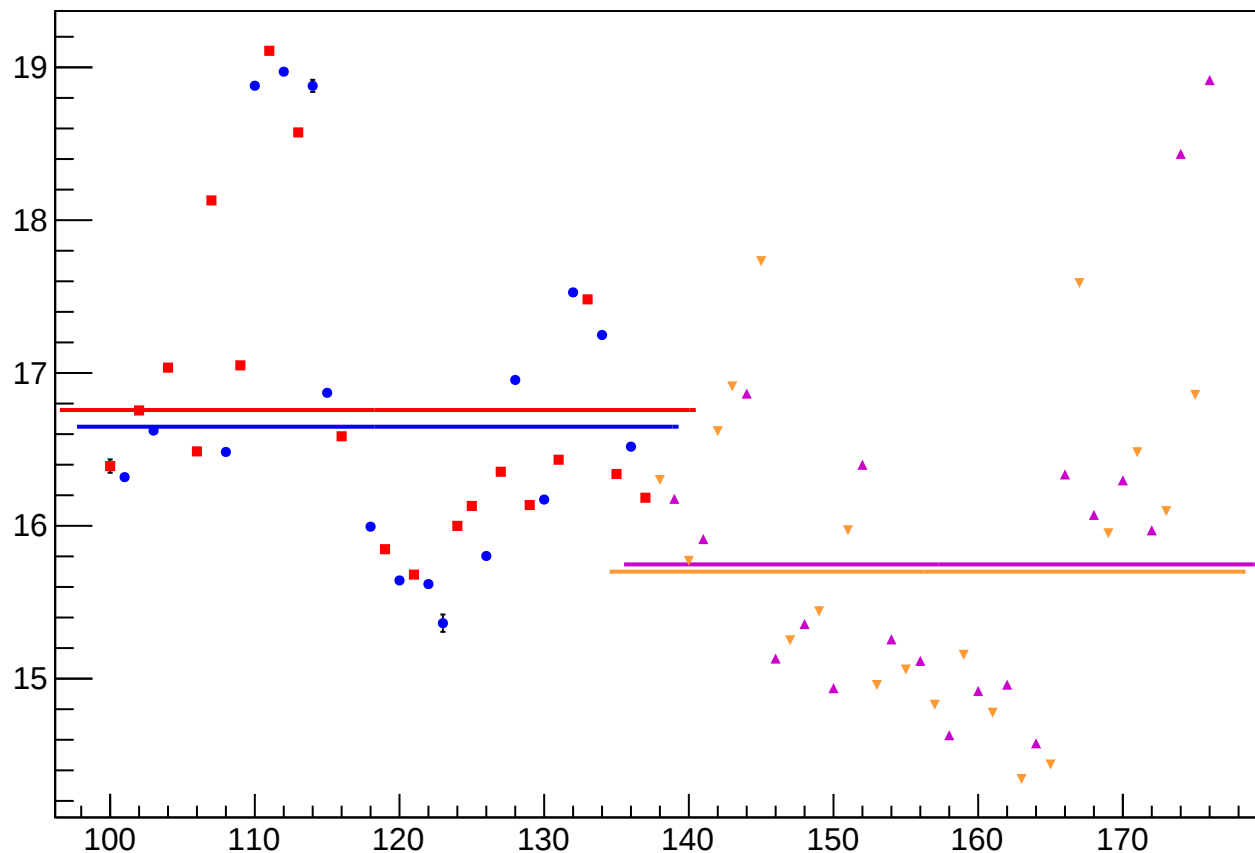
Right: 2.833 $\pm$ 4.490 χ^2 /NDF: 24.5/35

In: -3.995 $\pm$ 3.473 χ^2 /NDF:30.6/35

Out: -1.154 $\pm$ 3.409 χ^2 /NDF:26.3/38

All: -2.548 $\pm$ 2.433 χ^2 /NDF: 57.3/74

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: 15.700 $\pm$ 0.003 χ^2 /NDF:107333.7/19

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: 15.723 $\pm$ 0.002 χ^2 /NDF: 234606.0/38

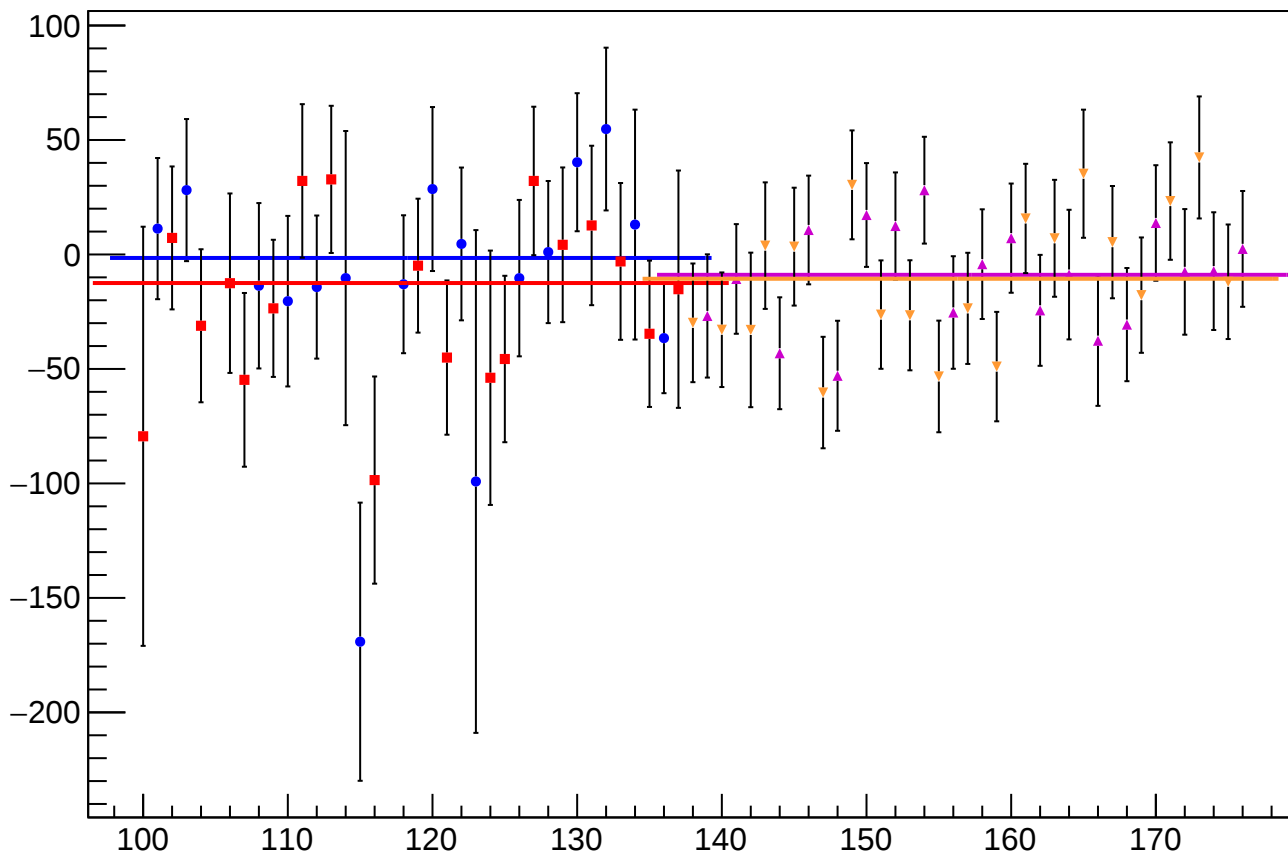
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 16.011 $\pm$ 0.002 χ^2 /NDF:197548.7/35

Out: 16.012 $\pm$ 0.002 χ^2 /NDF:187315.7/38

All: 16.011 $\pm$ 0.002 χ^2 /NDF: 384864.4/74

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.523 ± 8.485 $\chi^2/\text{NDF}: 17.6/16$

Left Out: -10.615 ± 5.660 $\chi^2/\text{NDF}: 26.9/19$

Right Out: -12.475 ± 8.210 $\chi^2/\text{NDF}: 15.6/18$

Left In: -8.896 ± 5.691 $\chi^2/\text{NDF}: 15.3/18$

Left: -9.760 ± 4.013 $\chi^2/\text{NDF}: 42.2/38$

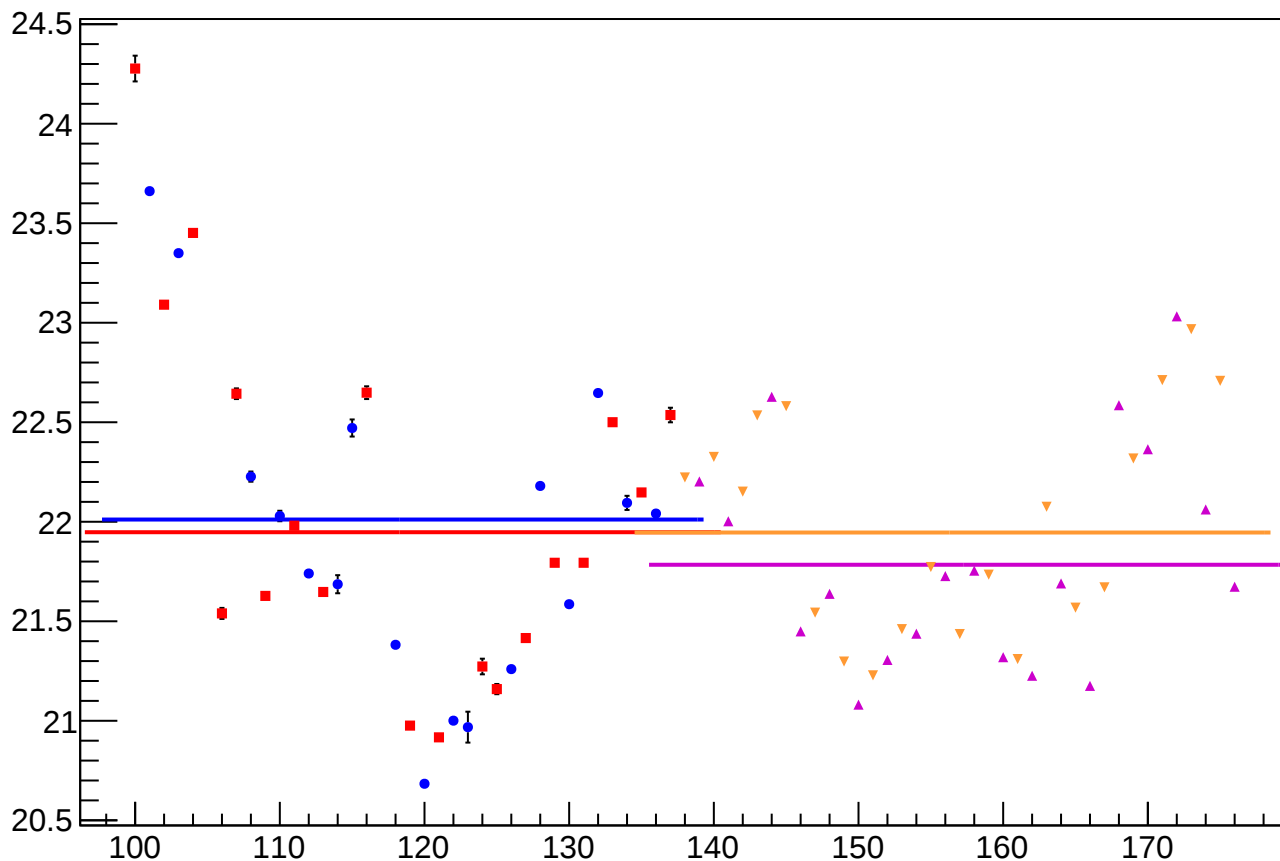
Right: -7.179 ± 5.900 $\chi^2/\text{NDF}: 34.1/35$

In: -6.608 ± 4.727 $\chi^2/\text{NDF}: 33.4/35$

Out: -11.214 ± 4.660 $\chi^2/\text{NDF}: 42.5/38$

All: -8.944 ± 3.318 $\chi^2/\text{NDF}: 76.5/74$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011+/-0.006 χ^2/NDF : 17546.9/16

Left Out: 21.946+/-0.004 χ^2/NDF : 17814.1/19

Right Out: 21.947+/-0.006 χ^2/NDF : 16592.7/18

Left In: 21.784+/-0.004 χ^2/NDF : 17049.9/18

Left: 21.865+/-0.003 χ^2/NDF : 35679.2/38

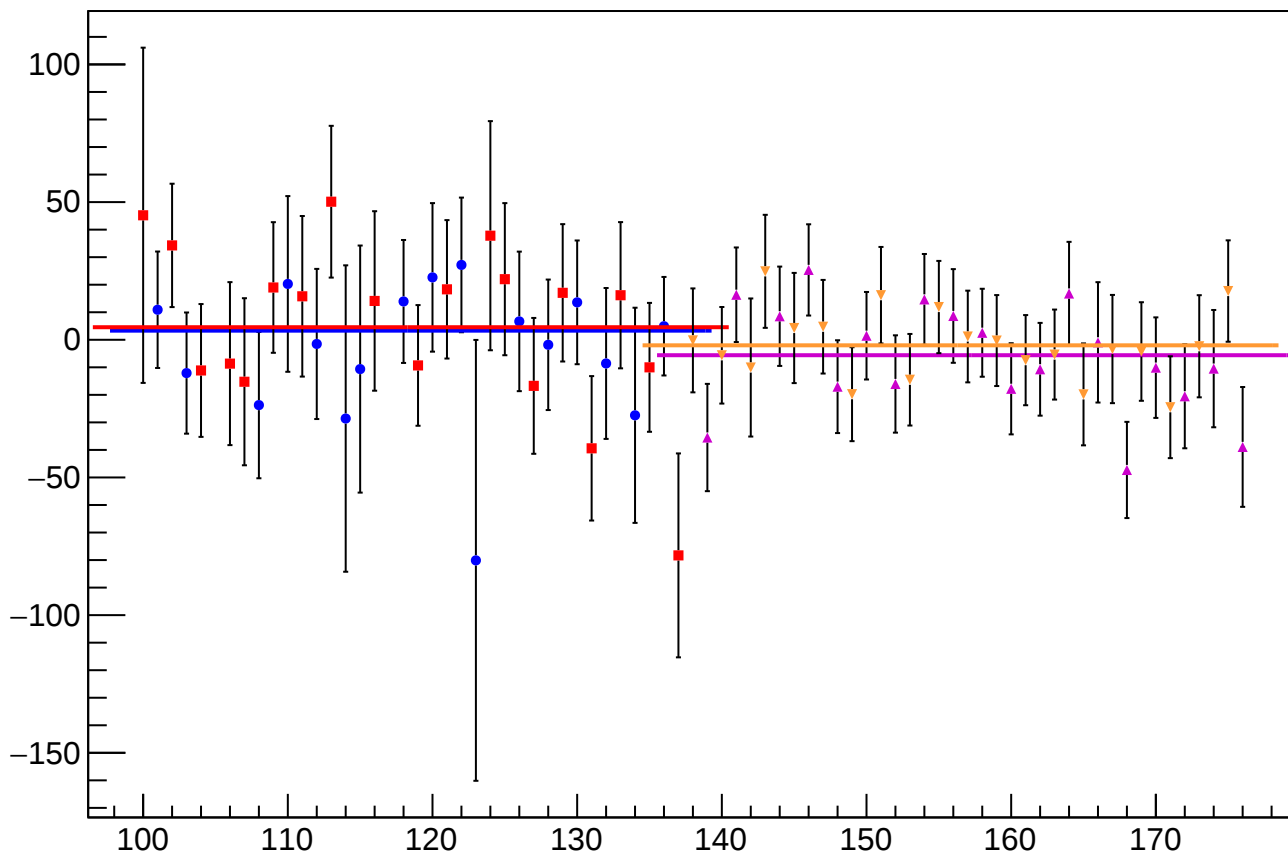
Right: 21.978+/-0.004 χ^2/NDF : 34197.9/35

In: 21.854+/-0.003 χ^2/NDF : 35586.2/35

Out: 21.946+/-0.003 χ^2/NDF : 34406.9/38

All: 21.901+/-0.002 χ^2/NDF : 70377.5/74

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317 $\pm$ 6.388 χ^2 /NDF: 6.3/16

Left Out: -2.011 $\pm$ 4.016 χ^2 /NDF:9.3/19

Right Out: 4.561 $\pm$ 6.244 χ^2 /NDF: 17.7/18

Left In: -5.605 $\pm$ 4.083 χ^2 /NDF:22.5/18

Left: -3.778 $\pm$ 2.863 χ^2 /NDF: 32.2/38

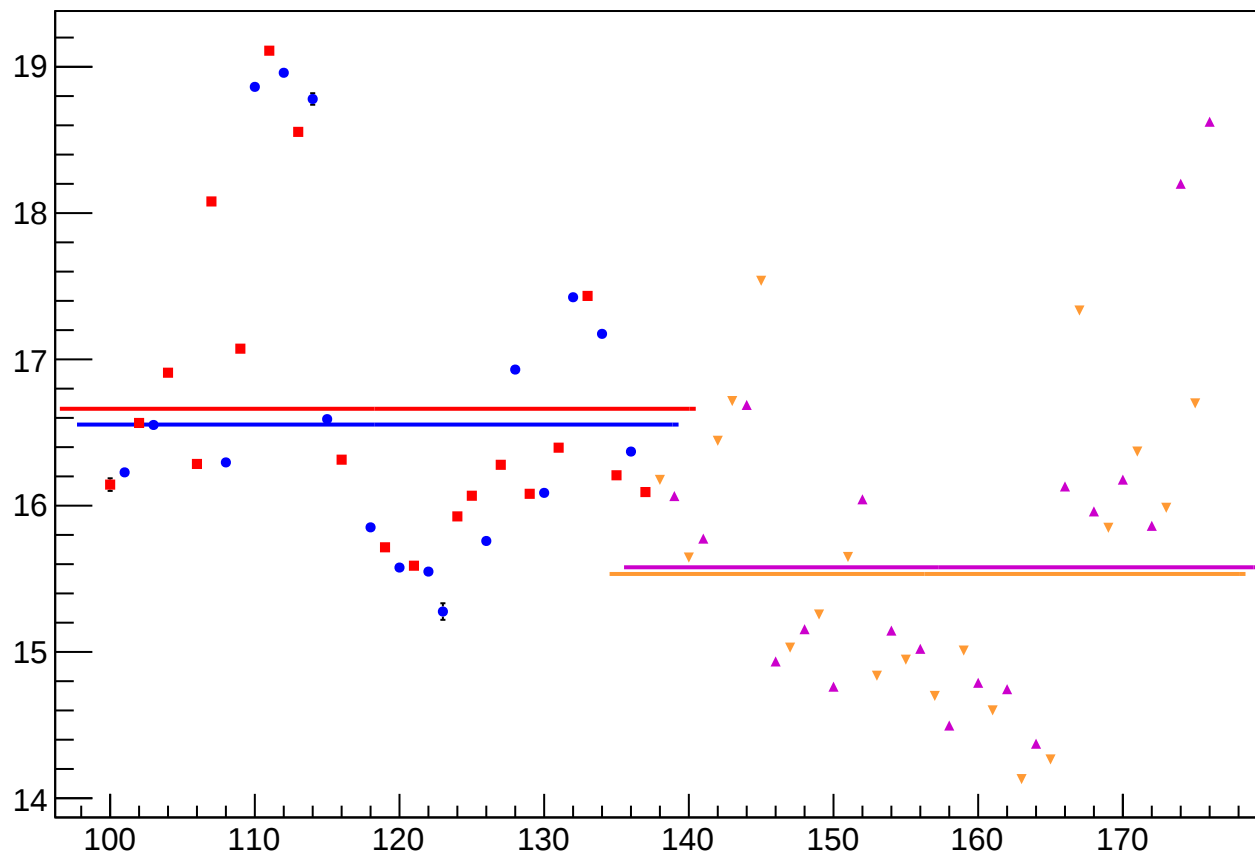
Right: 3.953 $\pm$ 4.465 χ^2 /NDF: 24.0/35

In: -3.017 $\pm$ 3.441 χ^2 /NDF:30.1/35

Out: -0.088 $\pm$ 3.377 χ^2 /NDF:27.8/38

All: -1.526 $\pm$ 2.410 χ^2 /NDF: 58.3/74

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554 $\pm$ 0.005 χ^2 /NDF: 44475.2/16

Left Out: 15.533 $\pm$ 0.003 χ^2 /NDF:108409.6/19

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.579 $\pm$ 0.003 χ^2 /NDF:124756.9/18

Left: 15.556 $\pm$ 0.002 χ^2 /NDF: 233293.5/38

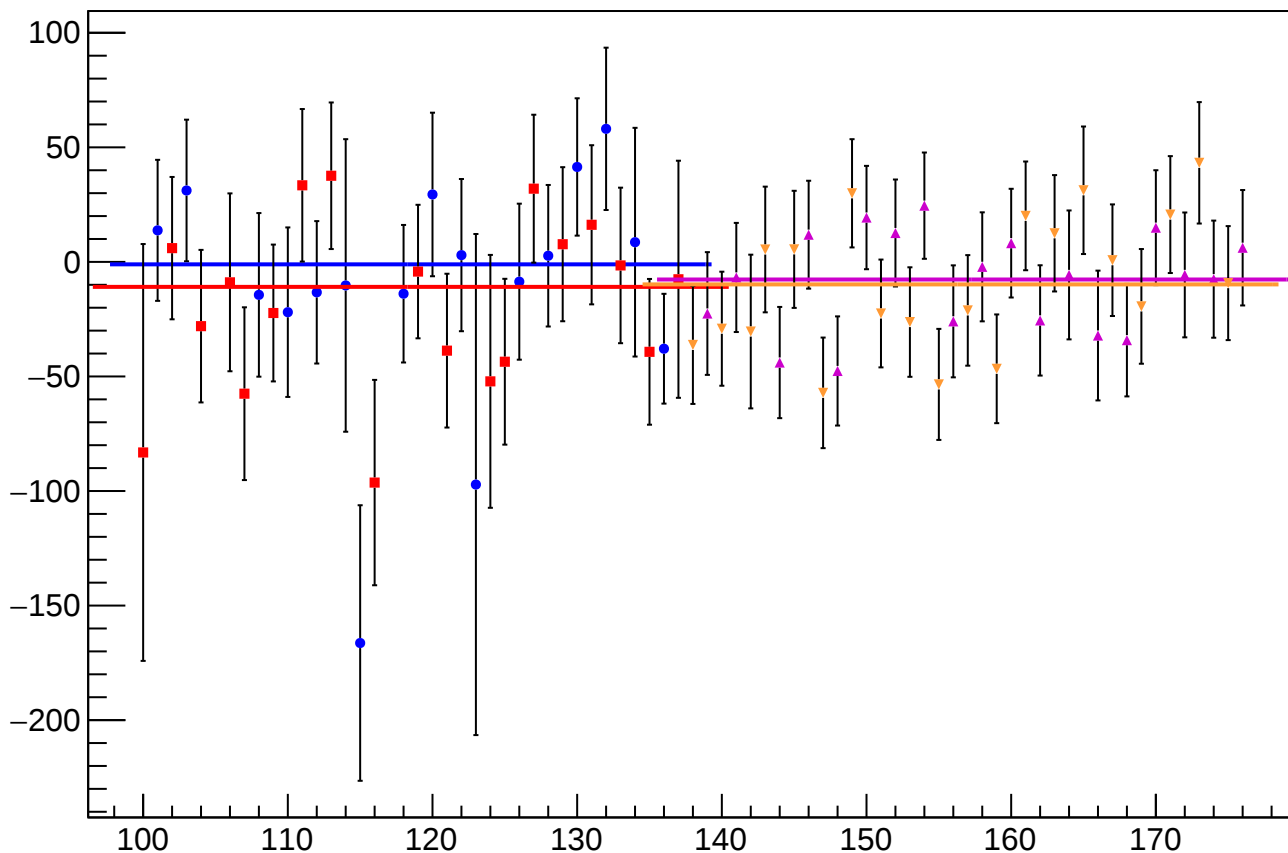
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.862 $\pm$ 0.002 χ^2 /NDF:202351.5/35

Out: 15.864 $\pm$ 0.002 χ^2 /NDF:197752.0/38

All: 15.863 $\pm$ 0.002 χ^2 /NDF: 400103.8/74

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.068 ± 8.444 $\chi^2/\text{NDF}: 18.5/16$

Left Out: -9.823 ± 5.624 $\chi^2/\text{NDF}: 26.3/19$

Right Out: -10.900 ± 8.169 $\chi^2/\text{NDF}: 16.2/18$

Left In: -7.682 ± 5.658 $\chi^2/\text{NDF}: 14.8/18$

Left: -8.759 ± 3.989 $\chi^2/\text{NDF}: 41.2/38$

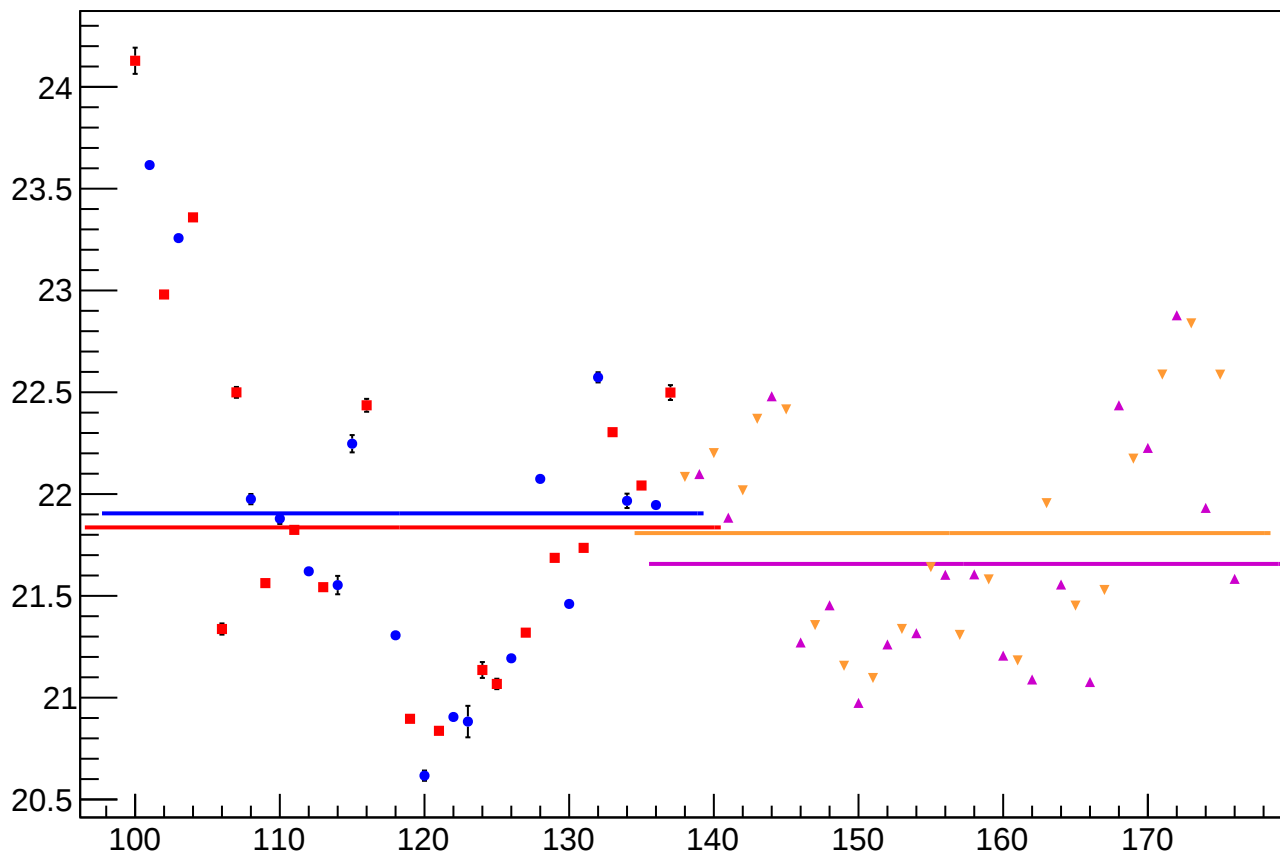
Right: -6.147 ± 5.871 $\chi^2/\text{NDF}: 35.4/35$

In: -5.633 ± 4.700 $\chi^2/\text{NDF}: 33.7/35$

Out: -10.169 ± 4.633 $\chi^2/\text{NDF}: 42.6/38$

All: -7.934 ± 3.299 $\chi^2/\text{NDF}: 76.8/74$

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: 21.808 $\pm$ 0.004 χ^2 /NDF: 18059.5/19

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: 35354.6/38

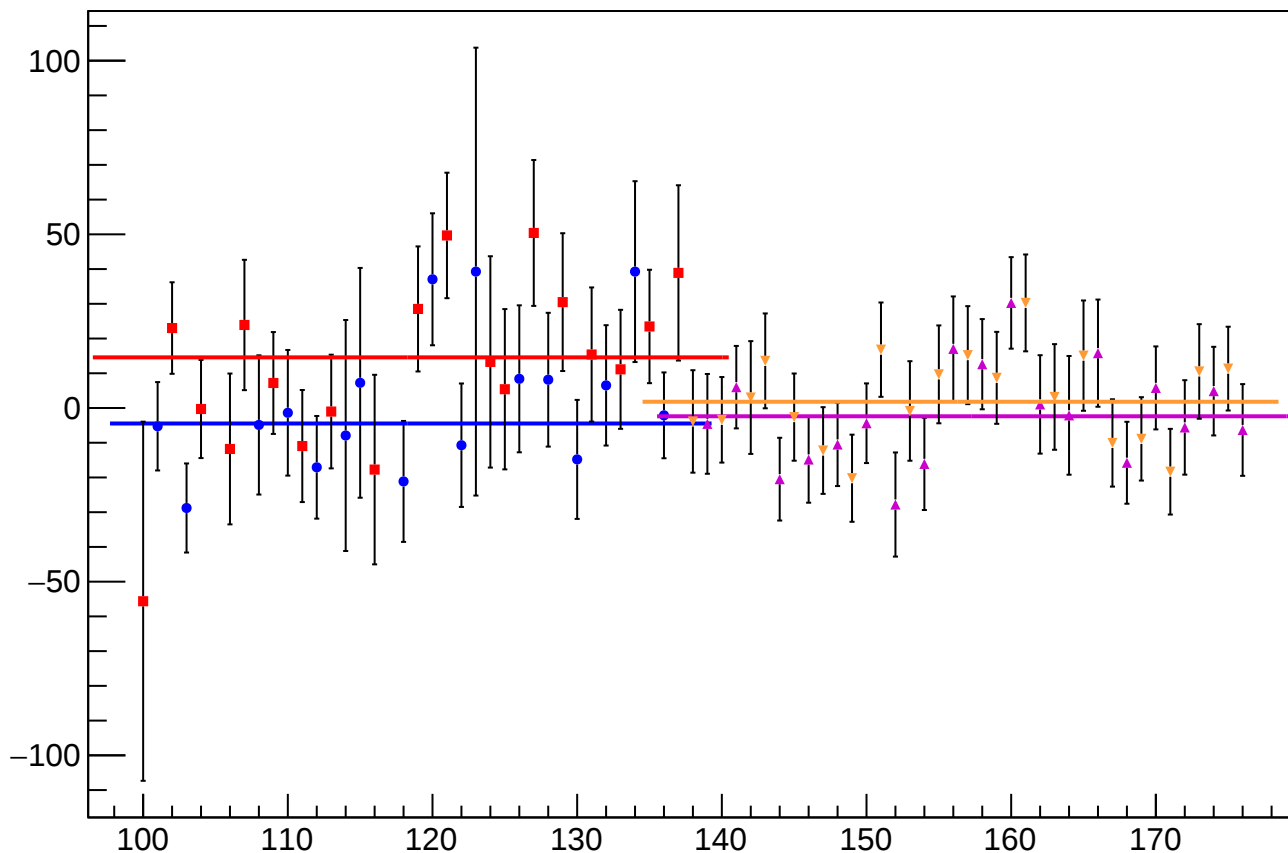
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.734 $\pm$ 0.003 χ^2 /NDF: 35562.3/35

Out: 21.817 $\pm$ 0.003 χ^2 /NDF: 34326.5/38

All: 21.776 $\pm$ 0.002 χ^2 /NDF: 70208.6/74

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 1.801 ± 3.001 $\chi^2/\text{NDF}: 18.5/19$

Right Out: 14.579 ± 4.264 $\chi^2/\text{NDF}: 19.5/18$

Left In: -2.384 ± 3.011 $\chi^2/\text{NDF}: 21.0/18$

Left: -0.284 ± 2.125 $\chi^2/\text{NDF}: 40.6/38$

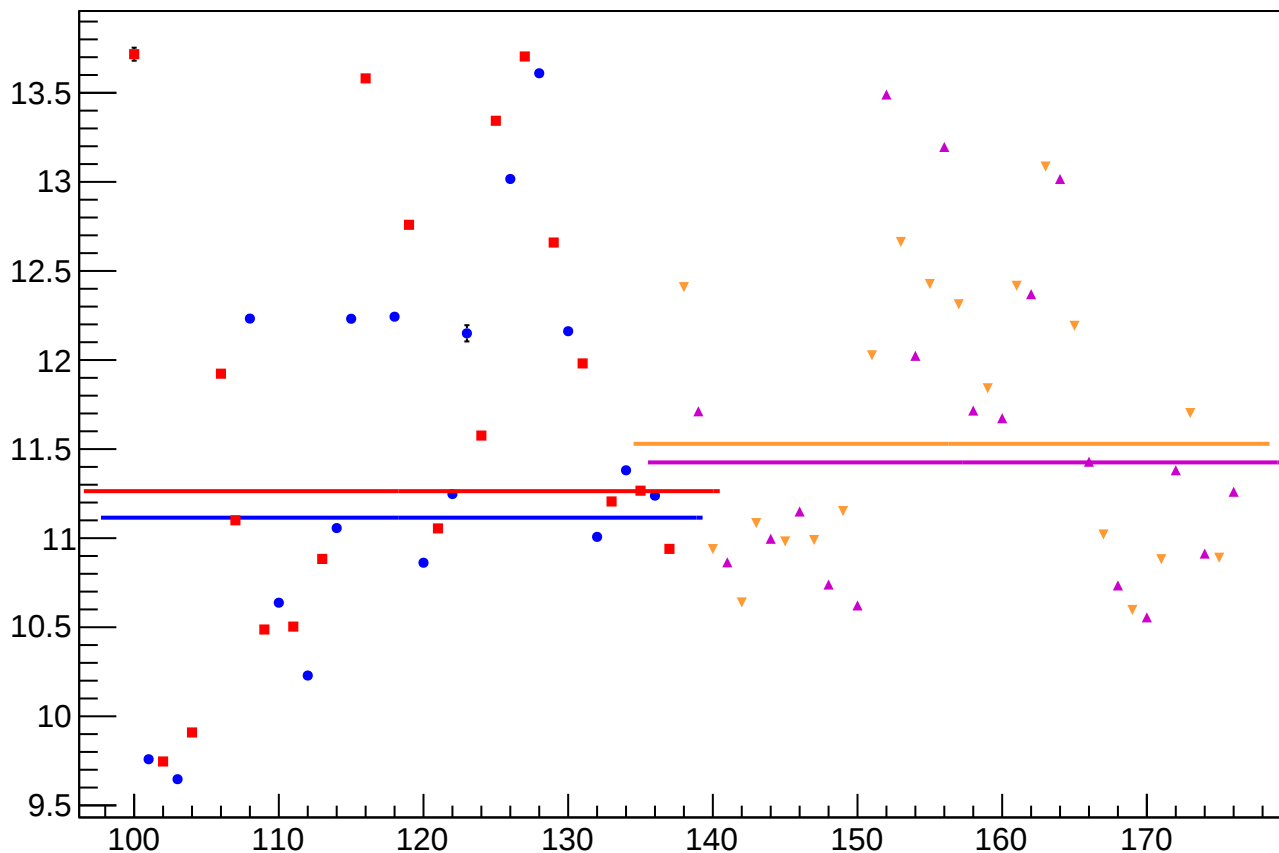
Right: 5.202 ± 3.038 $\chi^2/\text{NDF}: 44.5/35$

In: -3.061 ± 2.472 $\chi^2/\text{NDF}: 36.4/35$

Out: 6.033 ± 2.454 $\chi^2/\text{NDF}: 44.1/38$

All: 1.519 ± 1.741 $\chi^2/\text{NDF}: 87.3/74$

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: 11.530 $\pm$ 0.002 χ^2/NDF : 119124.5/19

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 $\pm$ 0.002 χ^2/NDF : 263978.0/38

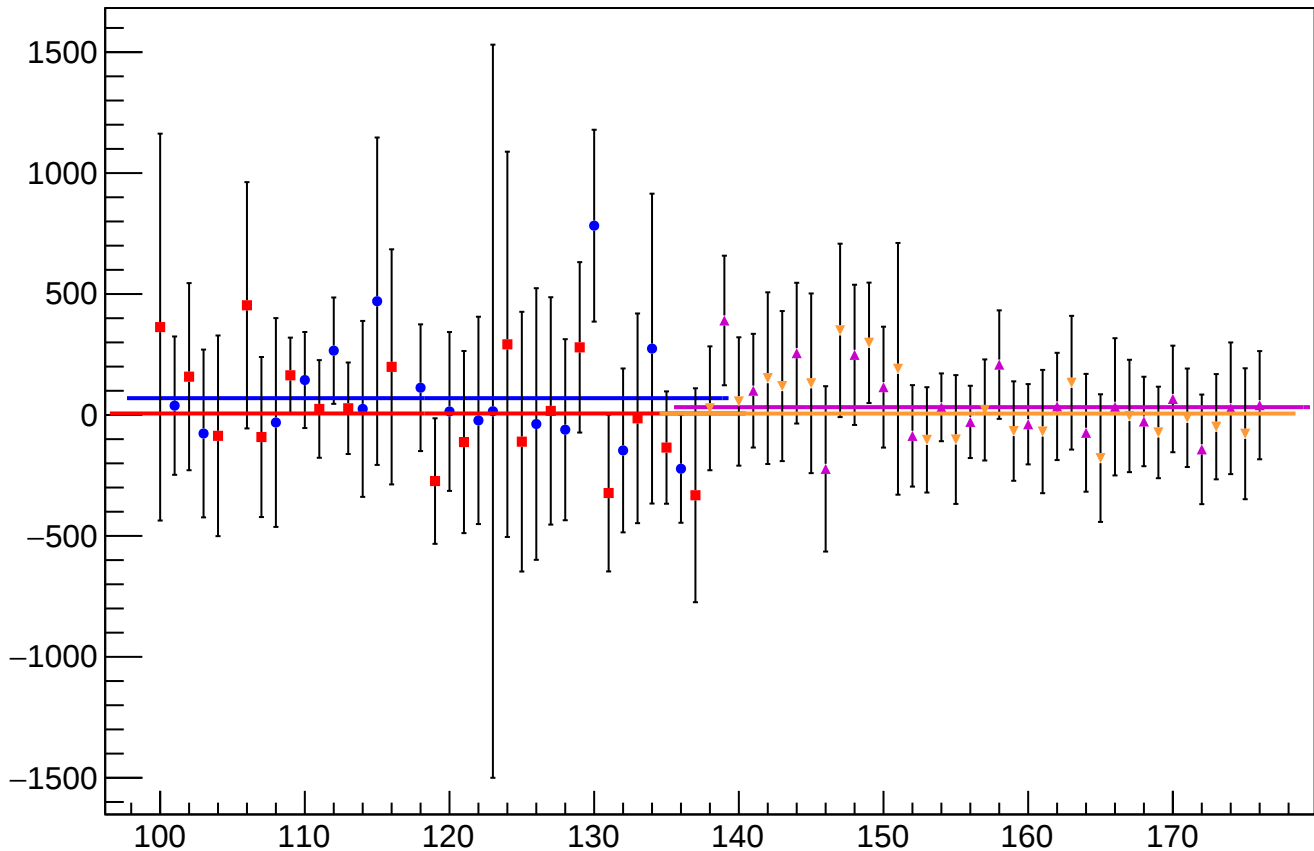
Right: 11.191 $\pm$ 0.002 χ^2/NDF : 281744.0/35

In: 11.324 $\pm$ 0.002 χ^2/NDF : 283632.3/35

Out: 11.442 $\pm$ 0.002 χ^2/NDF : 271798.6/38

All: 11.383 $\pm$ 0.001 χ^2/NDF : 557706.2/74

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470+/-79.231 χ^2/NDF : 7.3/16

Left Out: 5.832+/-56.556 χ^2/NDF : 4.5/19

Right Out: 6.194+/-70.182 χ^2/NDF : 6.5/18

Left In: 32.335+/-49.545 χ^2/NDF : 5.9/18

Left: 20.827+/-37.267 χ^2/NDF : 10.6/38

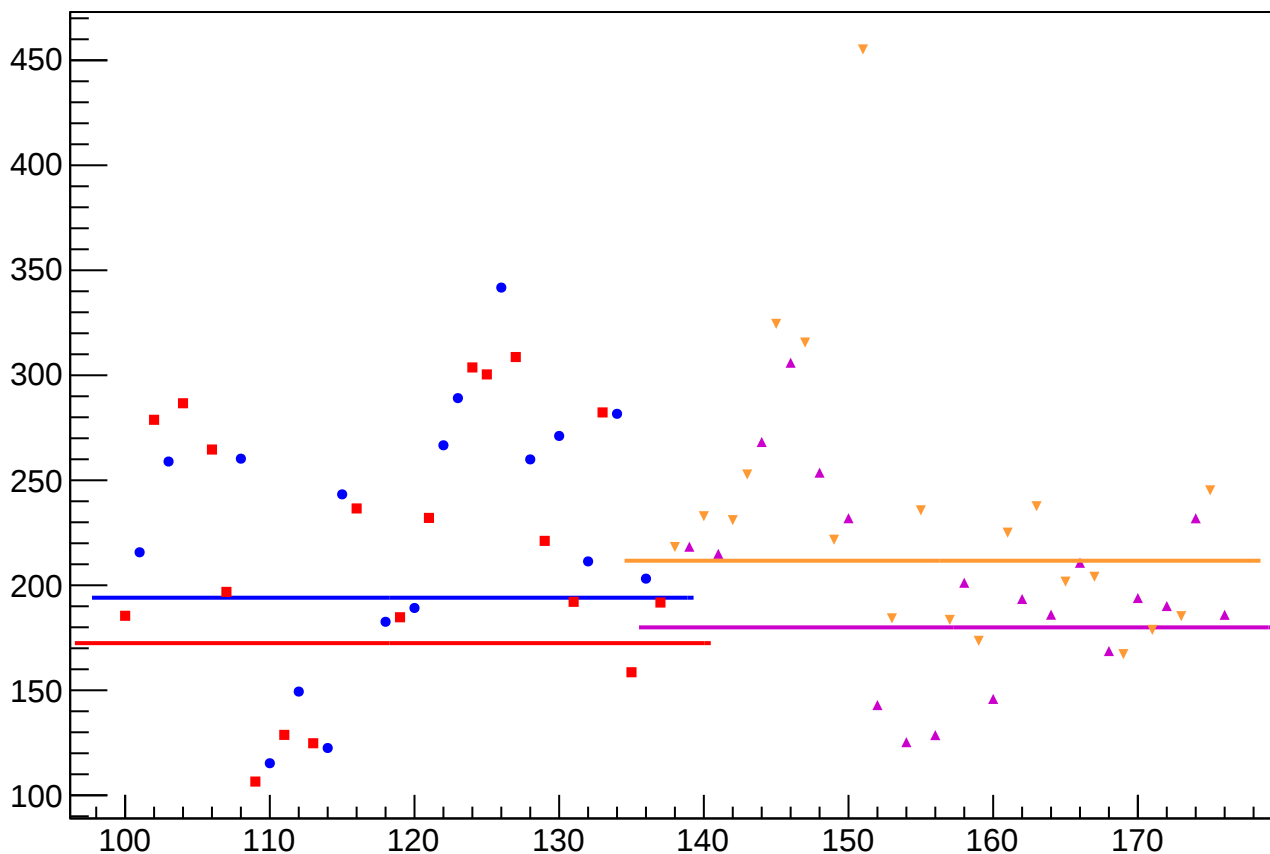
Right: 34.014+/-52.536 χ^2/NDF : 14.1/35

In: 42.774+/-42.008 χ^2/NDF : 13.3/35

Out: 5.974+/-44.037 χ^2/NDF : 11.0/38

All: 25.241+/-30.396 χ^2/NDF : 24.7/74

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: 211.696 $\pm$ 0.040 χ^2 /NDF:1252864.8/19

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: 193.740 $\pm$ 0.026 χ^2 /NDF: 3196959.9/38

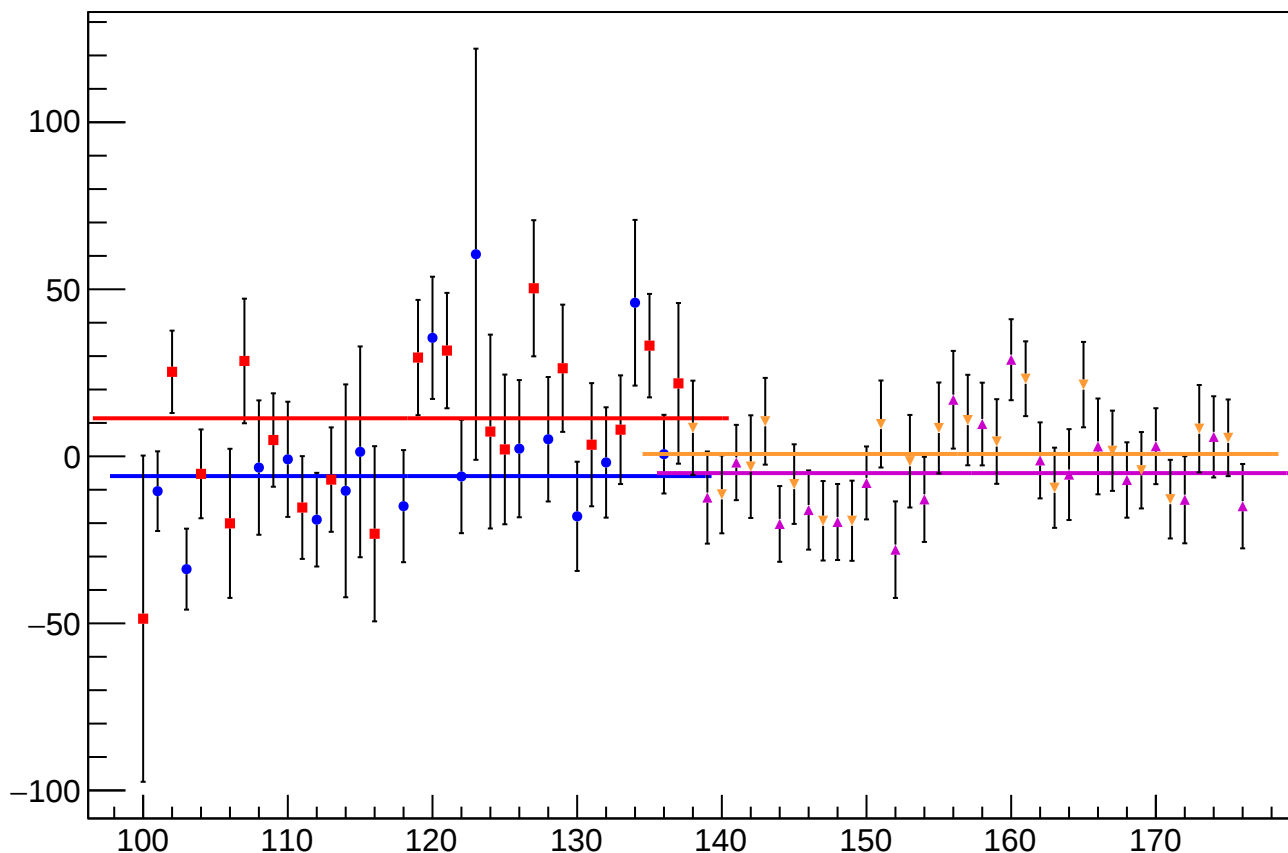
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 183.929 $\pm$ 0.030 χ^2 /NDF:2638846.3/35

Out: 196.245 $\pm$ 0.031 χ^2 /NDF:3201465.9/38

All: 189.797 $\pm$ 0.021 χ^2 /NDF: 5922213.5/74

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: 0.711 ± 2.795 χ^2/NDF : 19.1/19

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: -2.127 ± 1.985 χ^2/NDF : 43.1/38

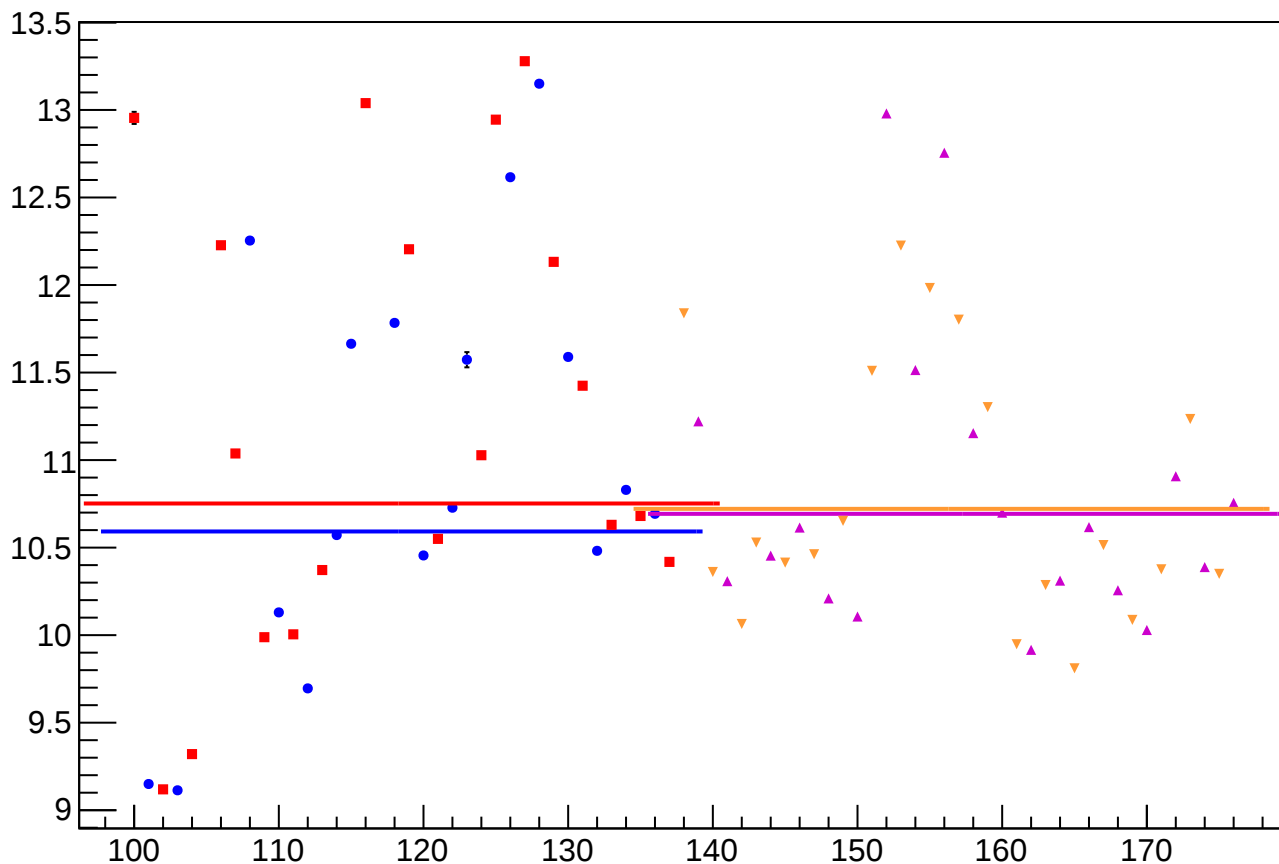
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -5.303 ± 2.330 χ^2/NDF : 40.8/35

Out: 4.123 ± 2.305 χ^2/NDF : 46.6/38

All: -0.539 ± 1.639 χ^2/NDF : 95.6/74

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: 10.721 $\pm$ 0.002 χ^2 /NDF:121866.8/19

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: 10.707 $\pm$ 0.001 χ^2 /NDF: 261155.0/38

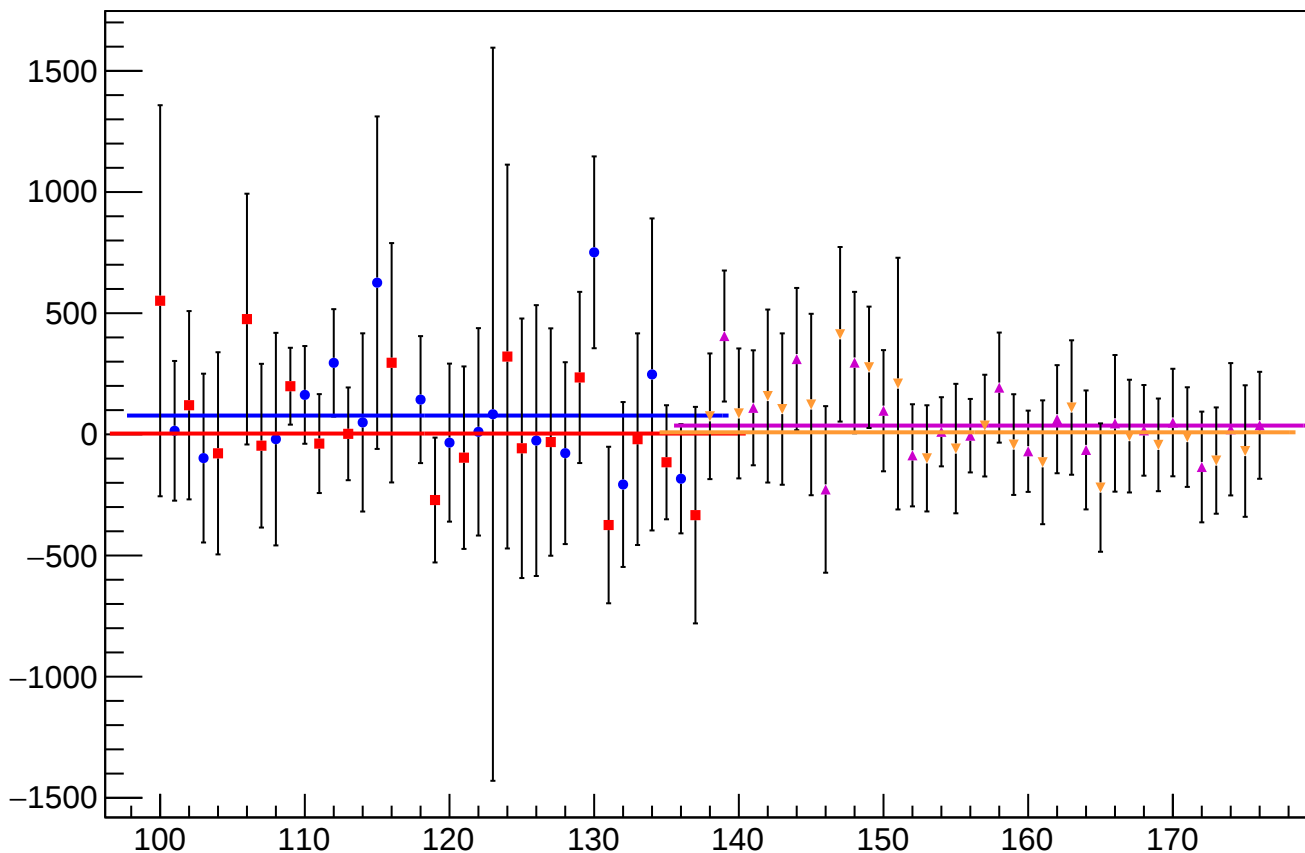
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.661 $\pm$ 0.002 χ^2 /NDF:300392.3/35

Out: 10.731 $\pm$ 0.002 χ^2 /NDF:298838.6/38

All: 10.696 $\pm$ 0.001 χ^2 /NDF: 600150.5/74

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 77.589 $\pm$ 79.751 χ^2 /NDF: 7.6/16

Left Out: 8.432 $\pm$ 56.939 χ^2 /NDF:5.0/19

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 36.243 $\pm$ 49.966 χ^2 /NDF:6.4/18

Left: 24.144 $\pm$ 37.556 χ^2 /NDF: 11.5/38

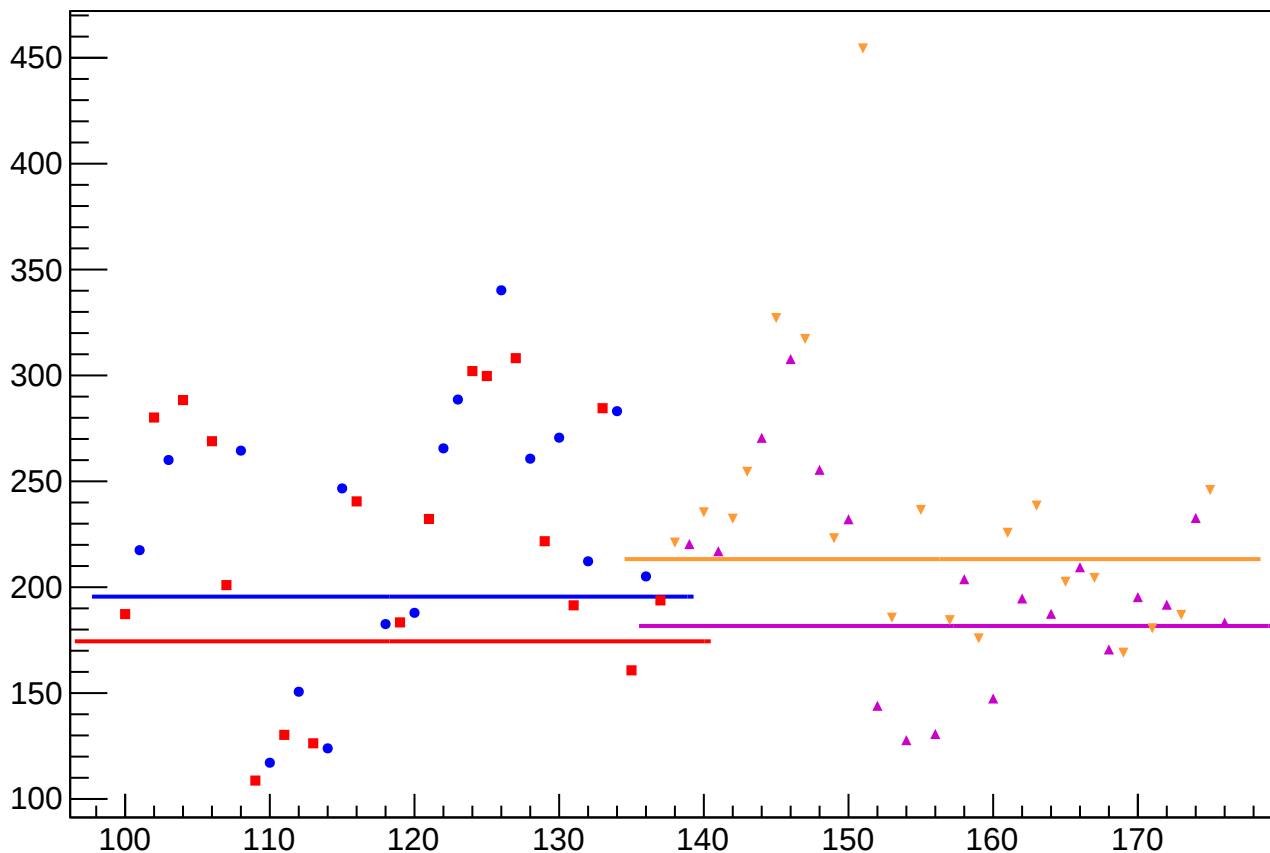
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 47.898 $\pm$ 42.342 χ^2 /NDF:14.1/35

Out: 6.420 $\pm$ 44.384 χ^2 /NDF:12.4/38

All: 28.135 $\pm$ 30.637 χ^2 /NDF: 26.9/74

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: 213.273 $\pm$ 0.040 χ^2 /NDF:1233804.1/19

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: 195.436 $\pm$ 0.027 χ^2 /NDF: 3121189.4/38

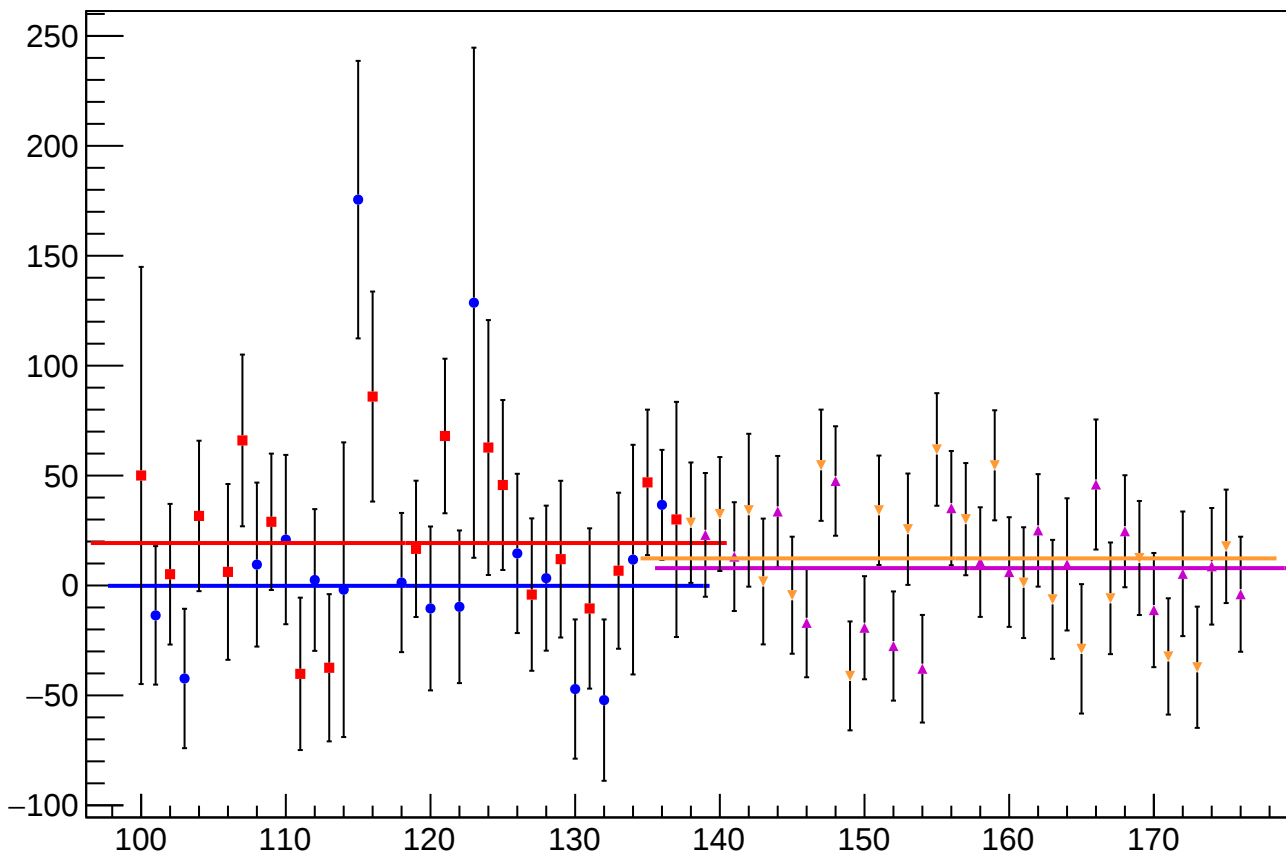
Right: 183.758 $\pm$ 0.037 χ^2 /NDF: 2586820.6/35

In: 185.605 $\pm$ 0.030 χ^2 /NDF:2563243.0/35

Out: 198.039 $\pm$ 0.031 χ^2 /NDF:3127285.5/38

All: 191.529 $\pm$ 0.022 χ^2 /NDF: 5772704.2/74

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: 12.332 ± 5.905 $\chi^2/\text{NDF}: 26.7/19$

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: 10.122 ± 4.185 $\chi^2/\text{NDF}: 43.2/38$

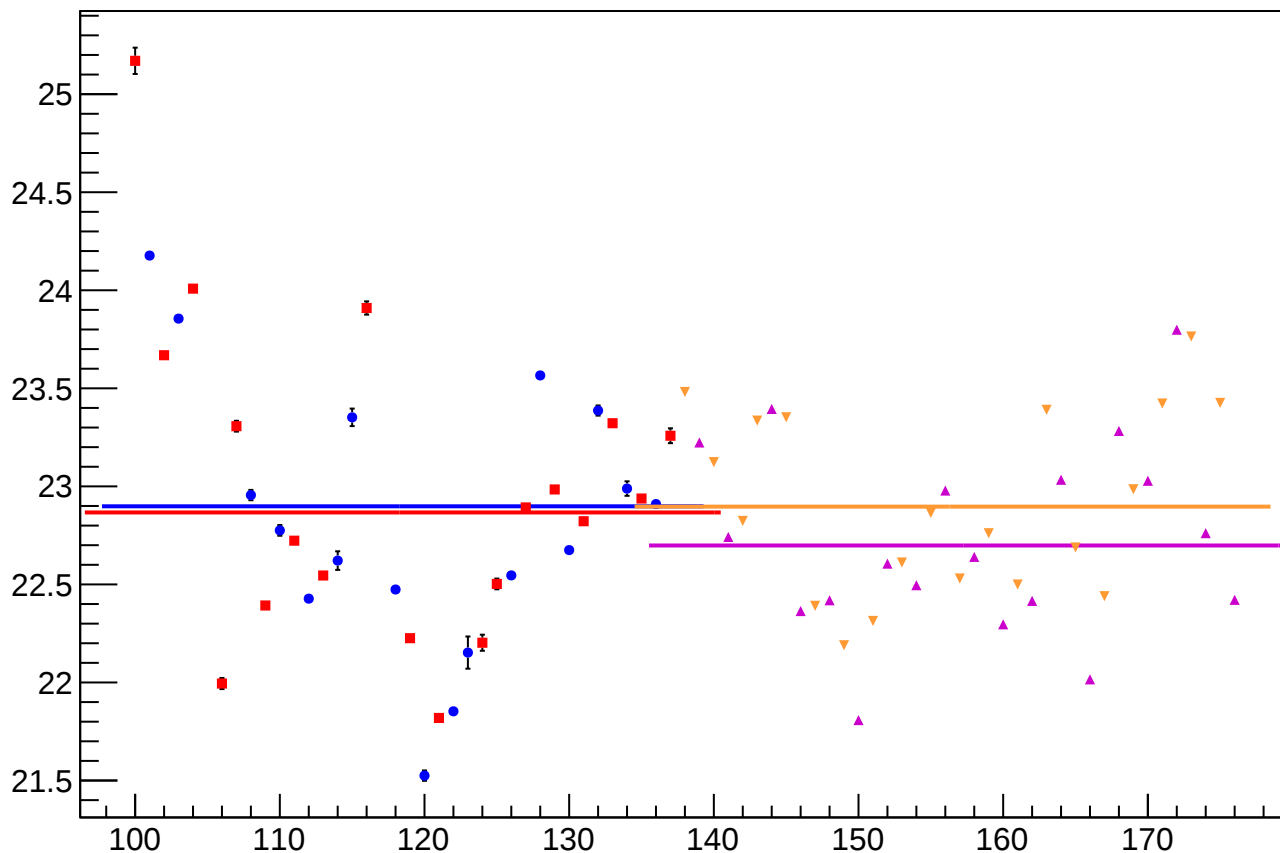
Right: 9.884 ± 6.142 $\chi^2/\text{NDF}: 35.4/35$

In: 5.389 ± 4.922 $\chi^2/\text{NDF}: 34.8/35$

Out: 14.587 ± 4.860 $\chi^2/\text{NDF}: 42.0/38$

All: 10.047 ± 3.458 $\chi^2/\text{NDF}: 78.6/74$

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: 22.897 $\pm$ 0.004 χ^2 /NDF:11925.3/19

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: 22.798 $\pm$ 0.003 χ^2 /NDF: 25875.2/38

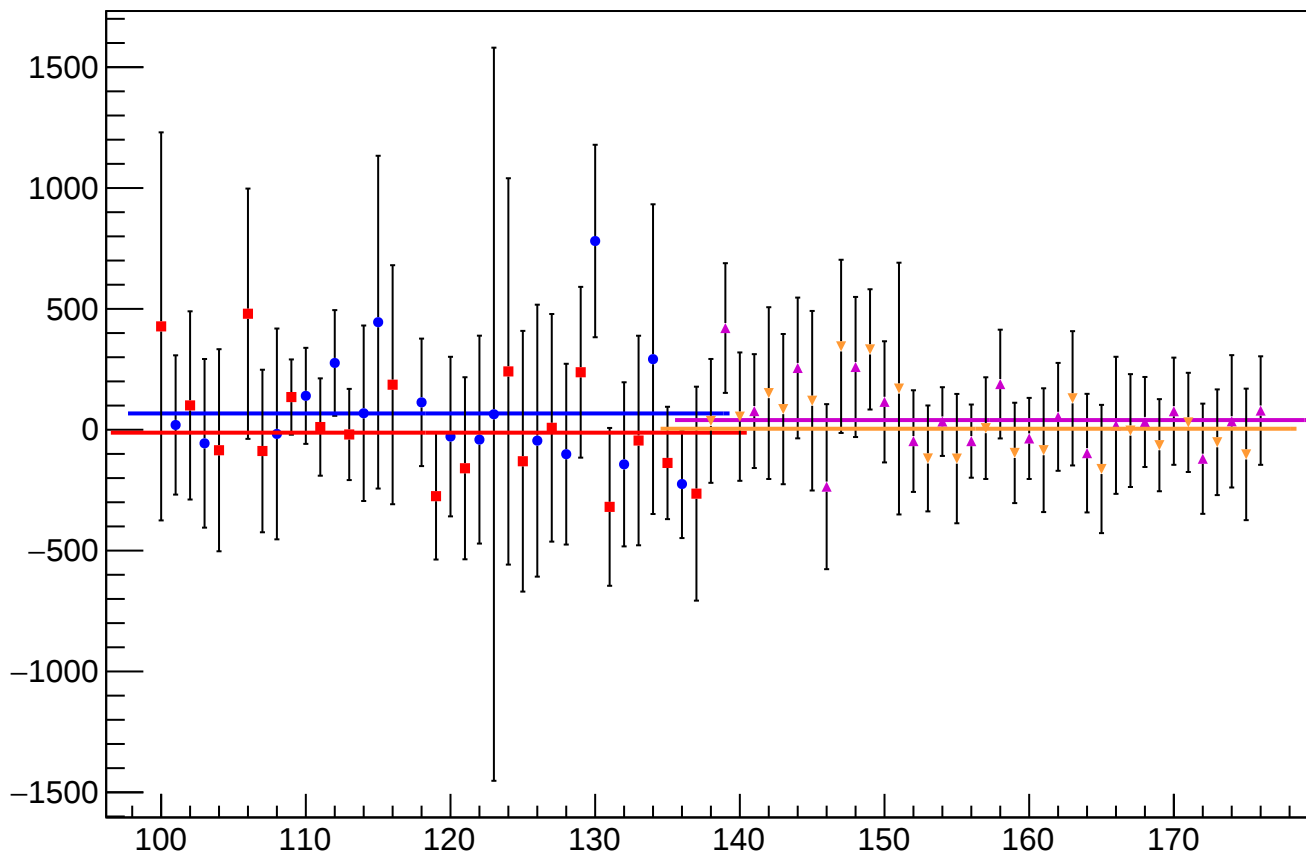
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.761 $\pm$ 0.003 χ^2 /NDF:25678.4/35

Out: 22.887 $\pm$ 0.003 χ^2 /NDF:22990.0/38

All: 22.825 $\pm$ 0.002 χ^2 /NDF: 49336.2/74

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: 4.145 $\pm$ 56.827 χ^2 /NDF:5.0/19

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: 24.404 $\pm$ 37.489 χ^2 /NDF: 11.1/38

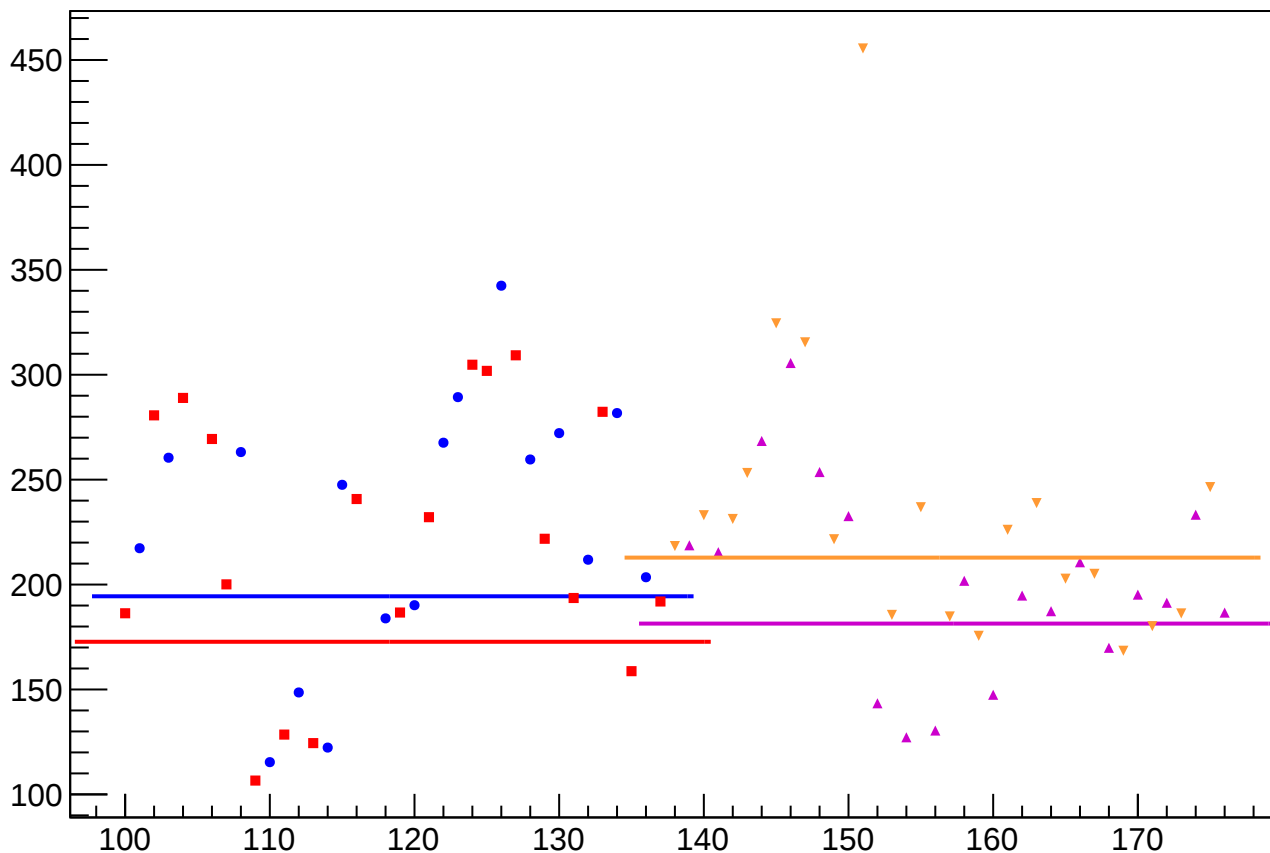
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 47.779 $\pm$ 42.241 χ^2 /NDF:13.4/35

Out: -2.276 $\pm$ 44.208 χ^2 /NDF:10.8/38

All: 23.890 $\pm$ 30.540 χ^2 /NDF: 24.8/74

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411 $\pm$ 0.056 χ^2 /NDF: 1019913.2/16

Left Out: 212.847 $\pm$ 0.040 χ^2 /NDF:1227399.4/19

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 181.400 $\pm$ 0.035 χ^2 /NDF:1533999.7/18

Left: 195.086 $\pm$ 0.027 χ^2 /NDF: 3107308.5/38

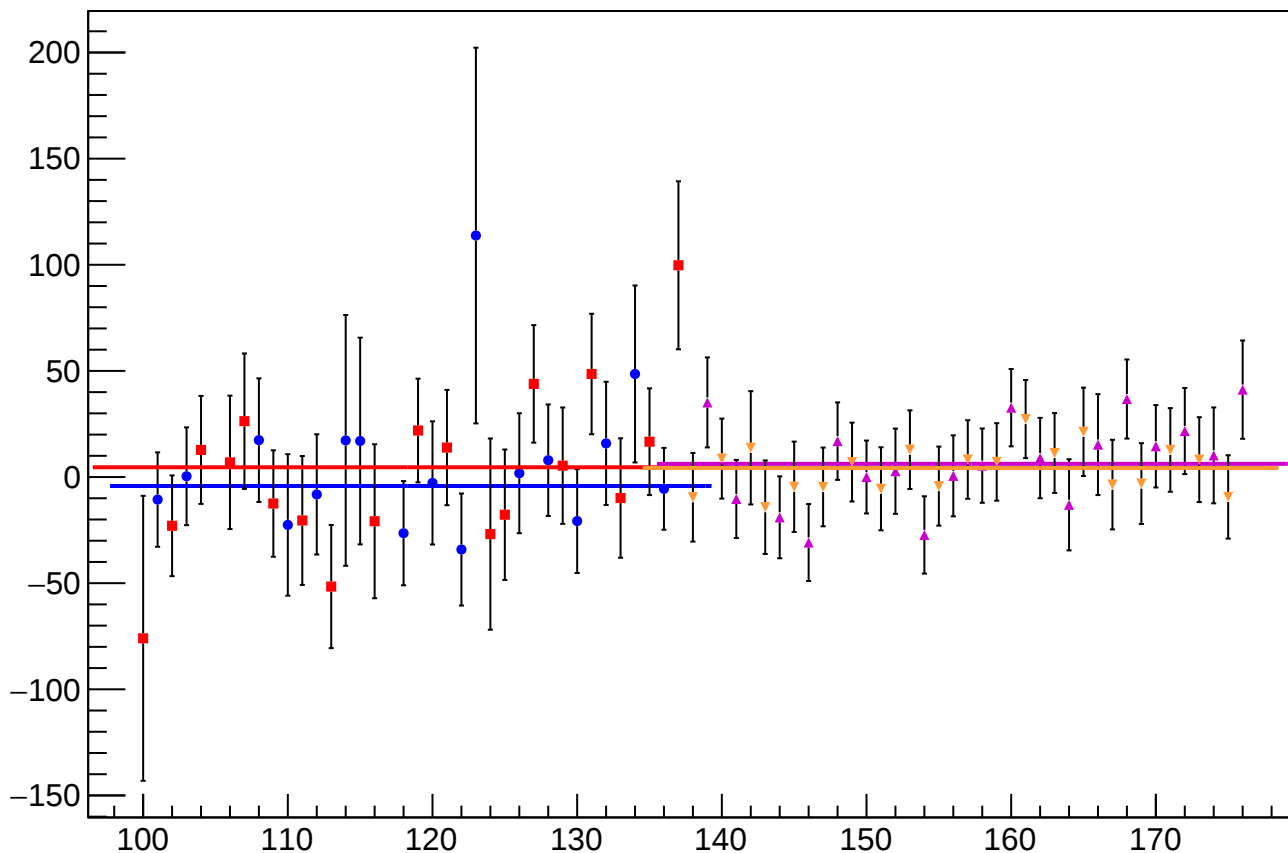
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 185.082 $\pm$ 0.030 χ^2 /NDF:2592414.2/35

Out: 197.008 $\pm$ 0.031 χ^2 /NDF:3217680.2/38

All: 190.774 $\pm$ 0.022 χ^2 /NDF: 5886184.9/74

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: 4.261+/-4.399 χ^2/NDF :5.9/19

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: 5.230+/-3.131 χ^2/NDF : 27.3/38

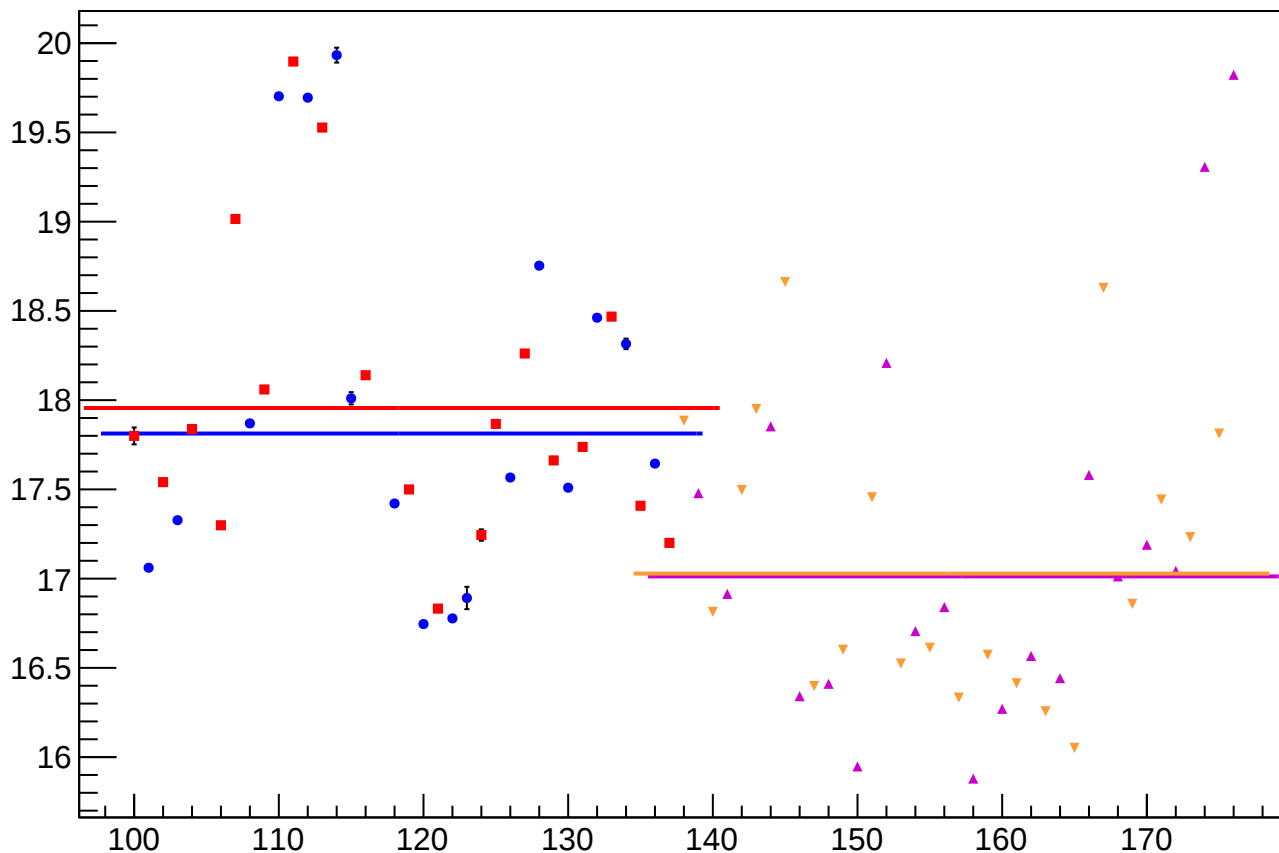
Right: 0.283+/-4.806 χ^2/NDF : 29.9/35

In: 3.130+/-3.739 χ^2/NDF :31.0/35

Out: 4.363+/-3.681 χ^2/NDF :27.0/38

All: 3.756+/-2.623 χ^2/NDF : 58.0/74

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: 17.028 $\pm$ 0.003 χ^2/NDF : 56305.5/19

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: 17.020 $\pm$ 0.002 χ^2/NDF : 147205.0/38

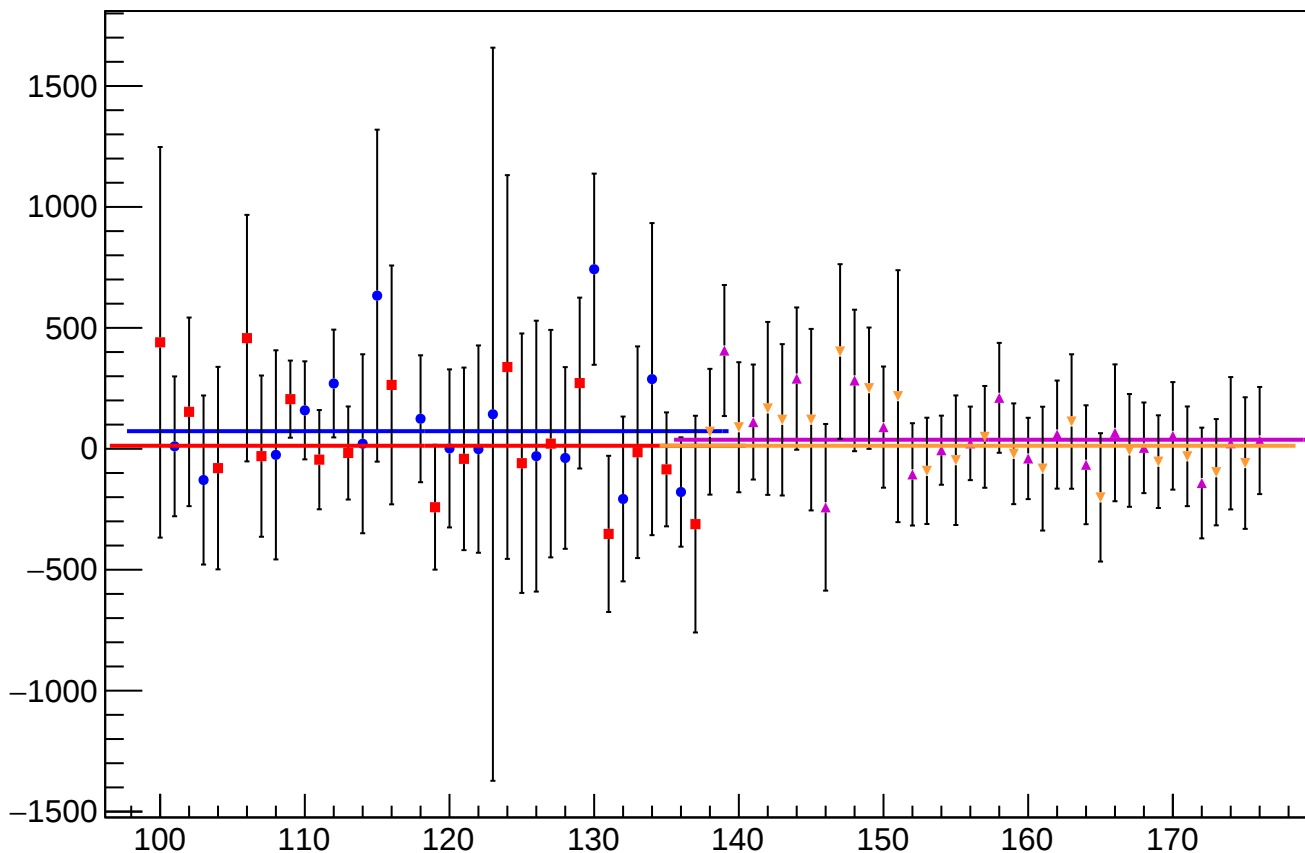
Right: 17.886 $\pm$ 0.003 χ^2/NDF : 57922.3/35

In: 17.249 $\pm$ 0.003 χ^2/NDF : 142031.7/35

Out: 17.306 $\pm$ 0.003 χ^2/NDF : 108398.4/38

All: 17.278 $\pm$ 0.002 χ^2/NDF : 250665.0/74

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: 12.628+/-57.066 χ^2/NDF : 4.5/19

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: 26.675+/-37.637 χ^2/NDF : 10.9/38

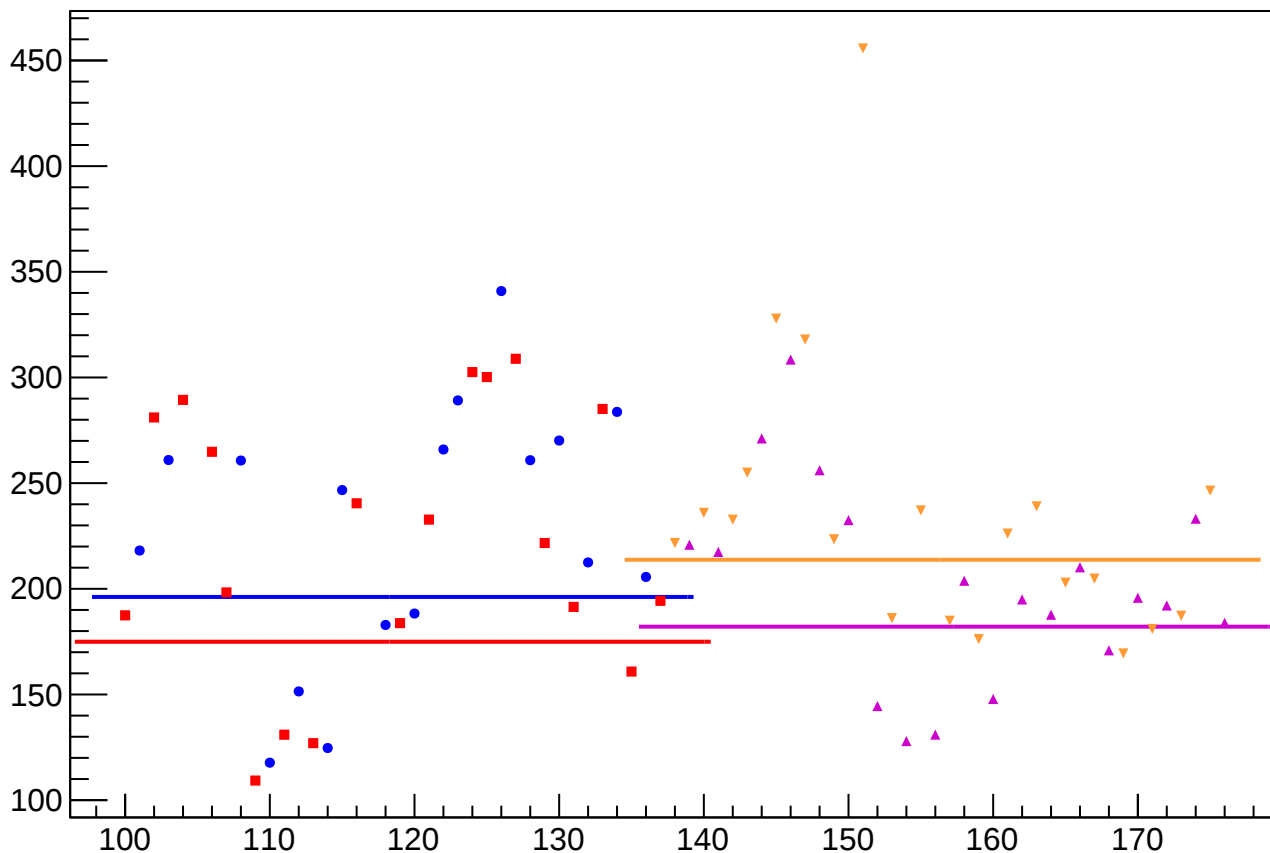
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 47.462+/-42.435 χ^2/NDF : 13.6/35

Out: 12.603+/-44.483 χ^2/NDF : 11.2/38

All: 30.854+/-30.704 χ^2/NDF : 25.2/74

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: 213.744+/-0.040 χ^2/NDF :1234049.5/19

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: 195.855+/-0.027 χ^2/NDF : 3121678.4/38

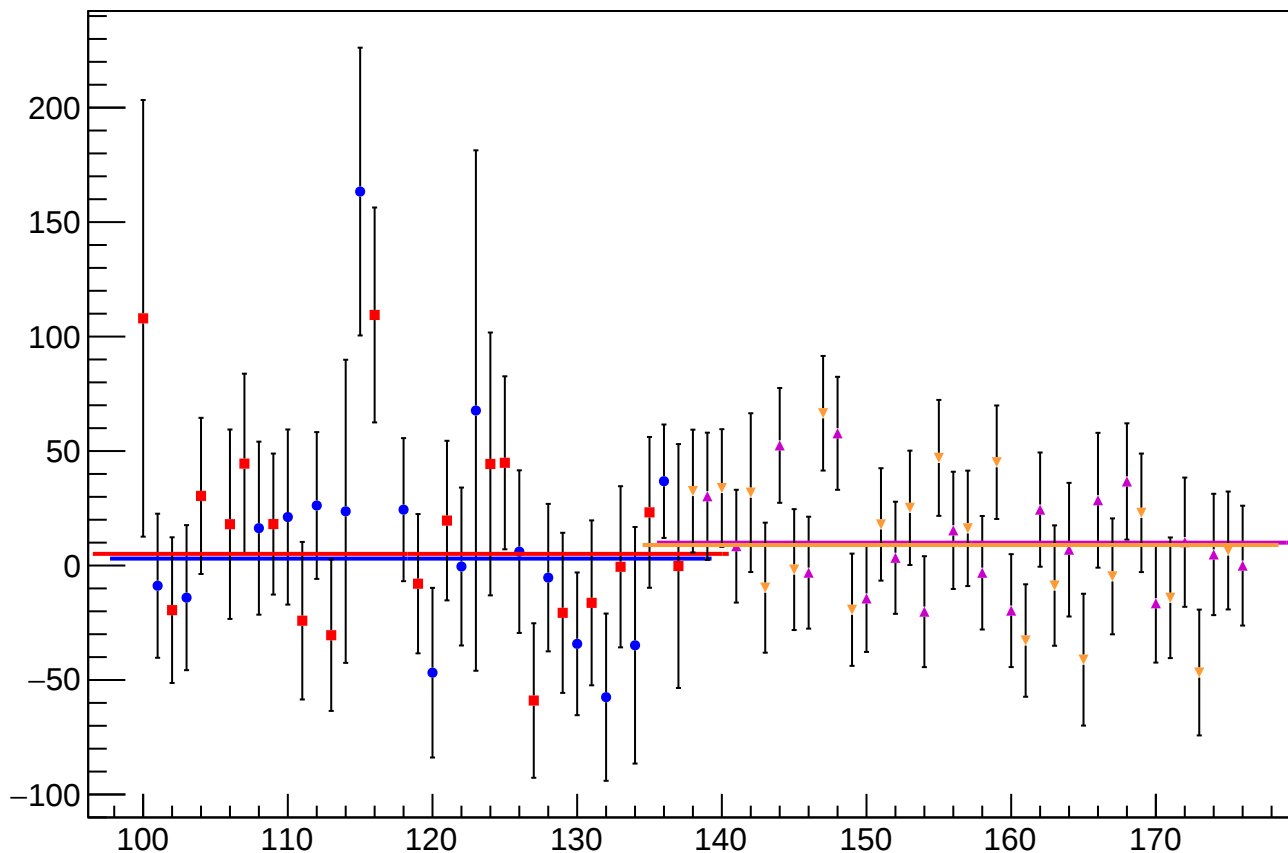
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 186.046+/-0.030 χ^2/NDF :2549240.2/35

Out: 198.528+/-0.031 χ^2/NDF :3107410.1/38

All: 191.993+/-0.022 χ^2/NDF : 5739097.5/74

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: 8.970 ± 5.839 $\chi^2/\text{NDF}: 26.2/19$

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: 9.475 ± 4.142 $\chi^2/\text{NDF}: 41.2/38$

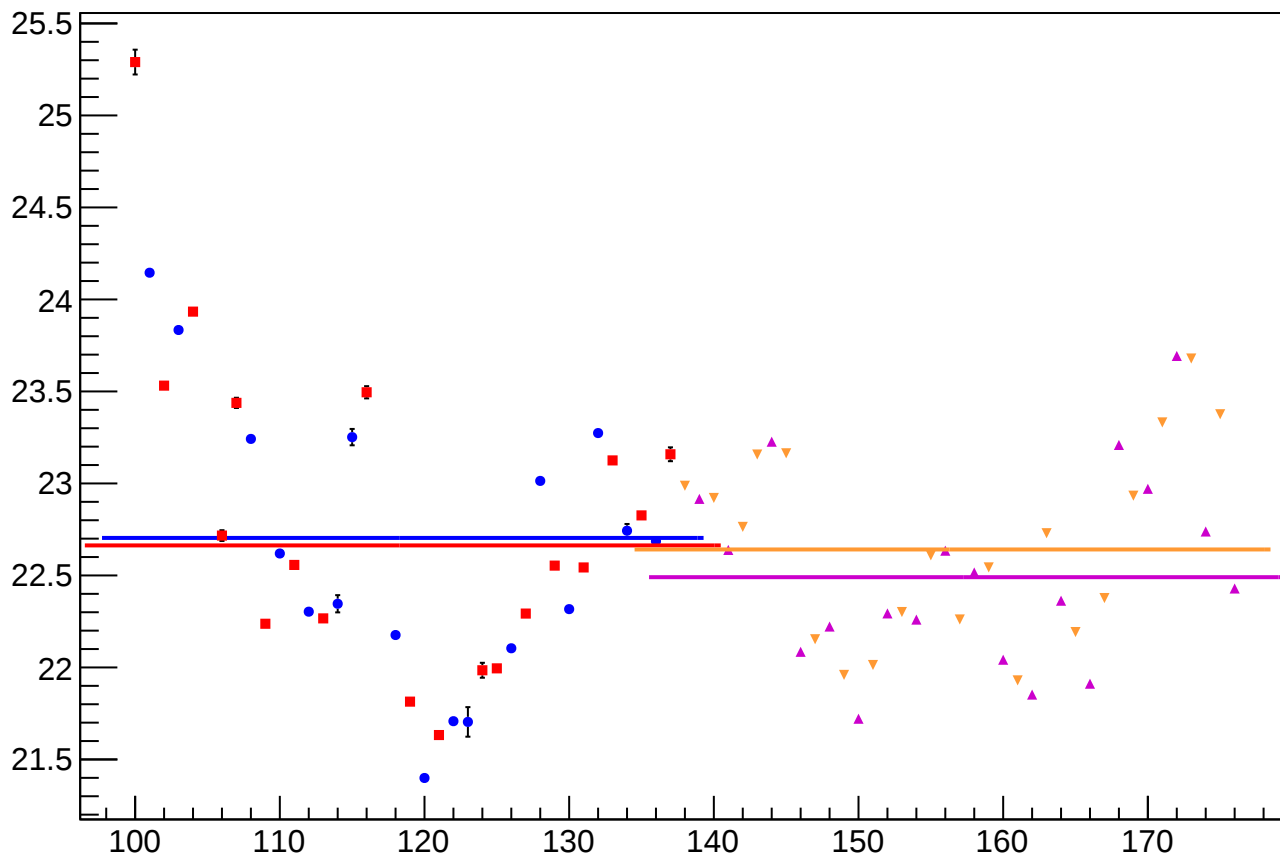
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 7.823 ± 4.878 $\chi^2/\text{NDF}: 32.6/35$

Out: 7.722 ± 4.809 $\chi^2/\text{NDF}: 43.5/38$

All: 7.772 ± 3.425 $\chi^2/\text{NDF}: 76.1/74$

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: 22.641 $\pm$ 0.004 χ^2 /NDF:15028.3/19

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: 30174.4/38

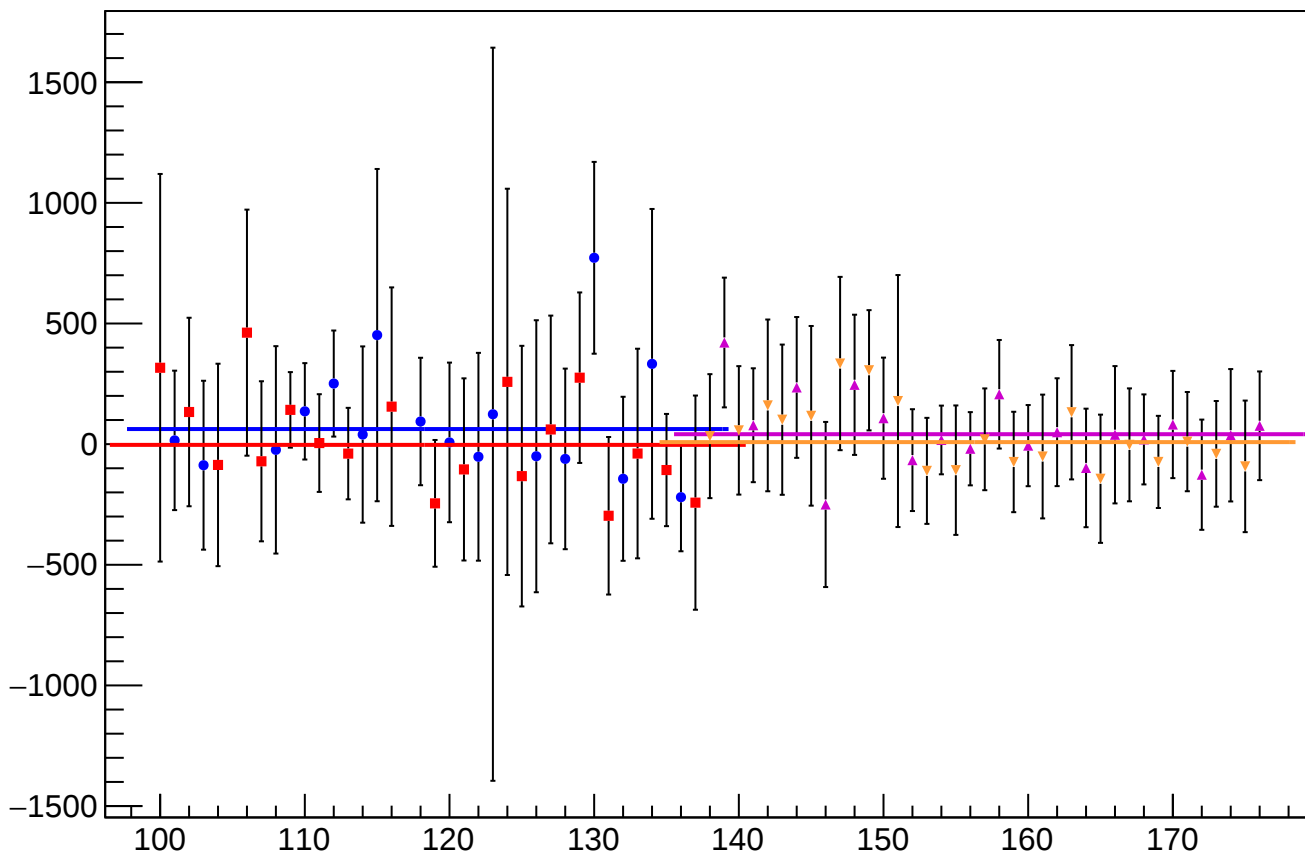
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.557 $\pm$ 0.003 χ^2 /NDF:29410.1/35

Out: 22.648 $\pm$ 0.003 χ^2 /NDF:27980.9/38

All: 22.603 $\pm$ 0.002 χ^2 /NDF: 57747.0/74

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: 8.393+/-56.953 χ^2/NDF : 4.4/19

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: 26.929+/-37.570 χ^2/NDF : 10.3/38

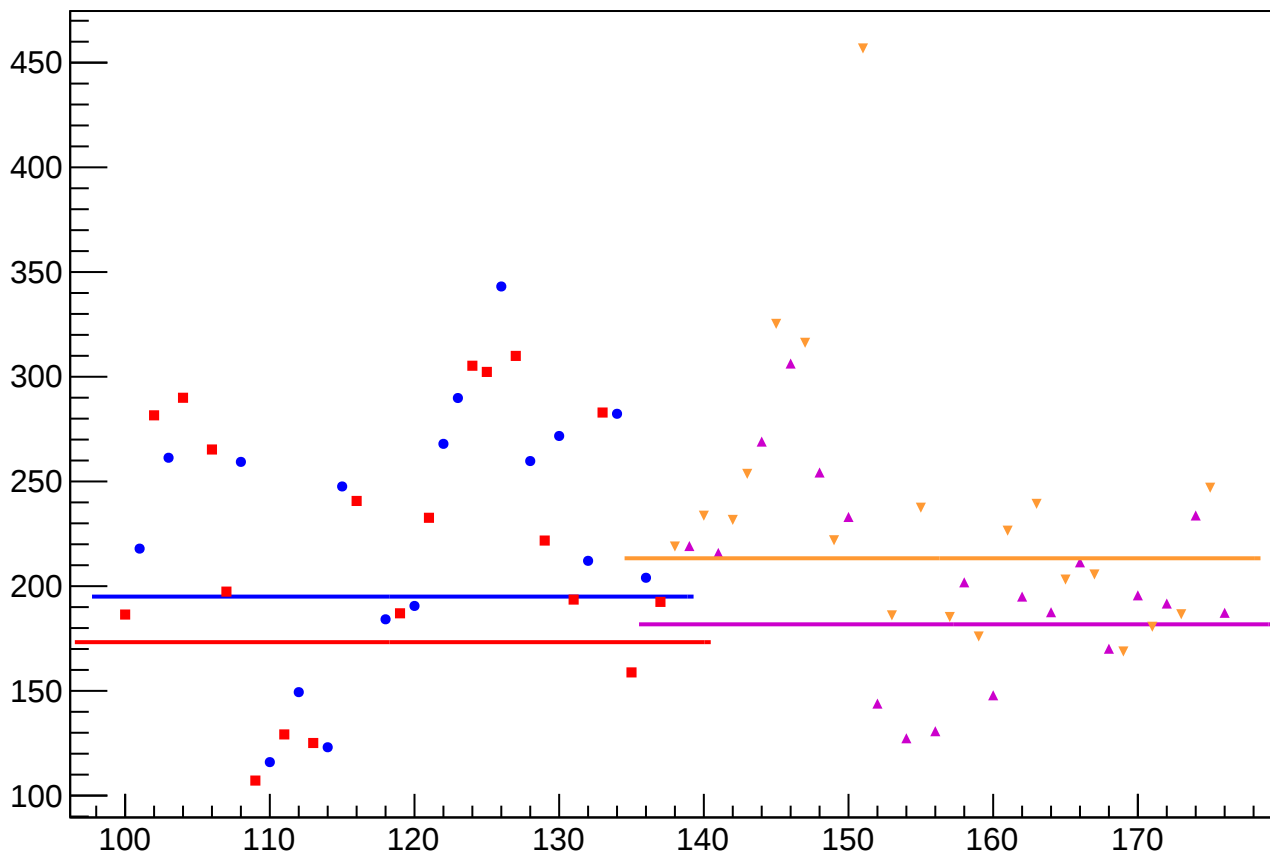
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 47.250+/-42.334 χ^2/NDF : 12.8/35

Out: 3.881+/-44.307 χ^2/NDF : 9.6/38

All: 26.553+/-30.609 χ^2/NDF : 22.9/74

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: 213.317+/-0.040 χ^2/NDF : 1227650.3/19

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: 195.503+/-0.027 χ^2/NDF : 3108016.7/38

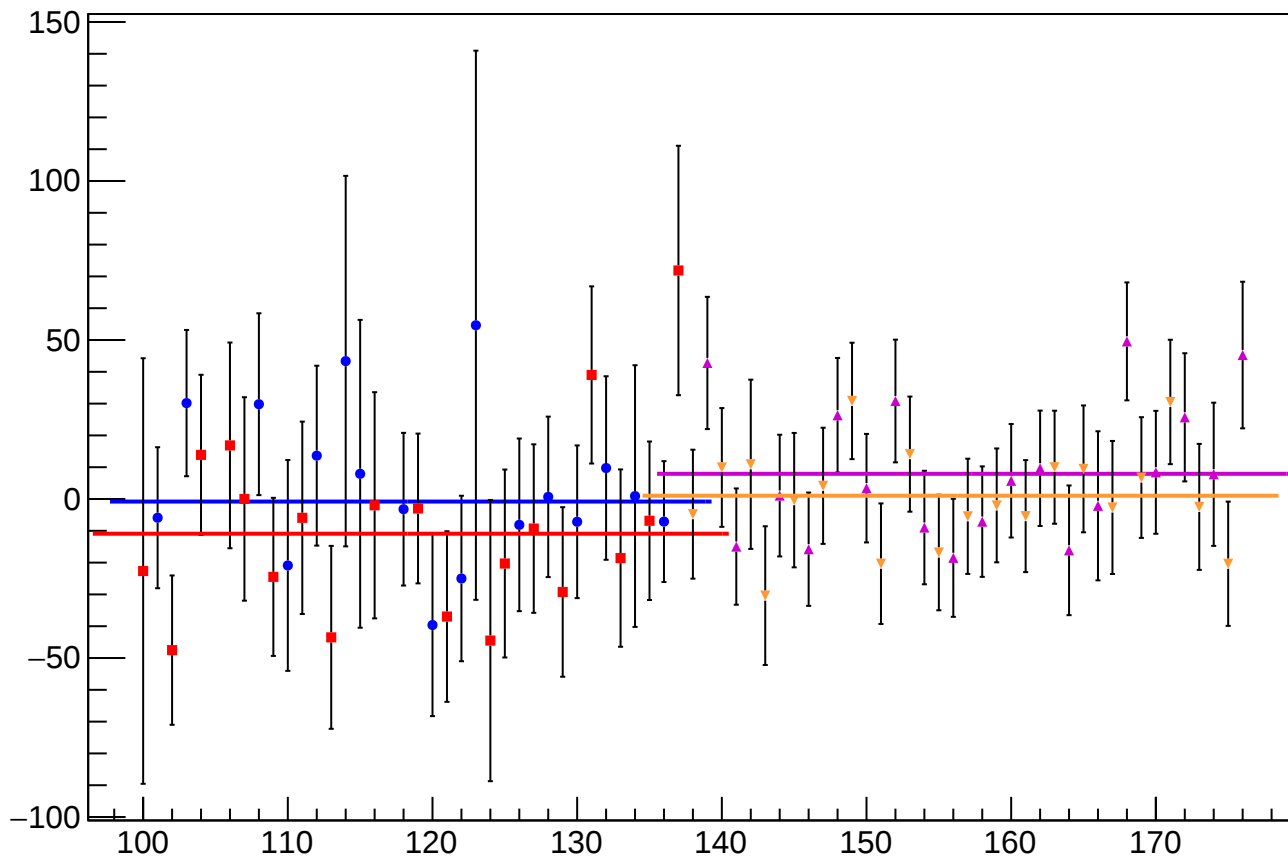
Right: 182.829+/-0.037 χ^2/NDF : 2666222.6/35

In: 185.524+/-0.030 χ^2/NDF : 2577920.8/35

Out: 197.504+/-0.031 χ^2/NDF : 3196402.7/38

All: 191.241+/-0.022 χ^2/NDF : 5850762.2/74

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: 1.035 ± 4.311 χ^2/NDF : 12.3/19

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: 4.424 ± 3.073 χ^2/NDF : 36.1/38

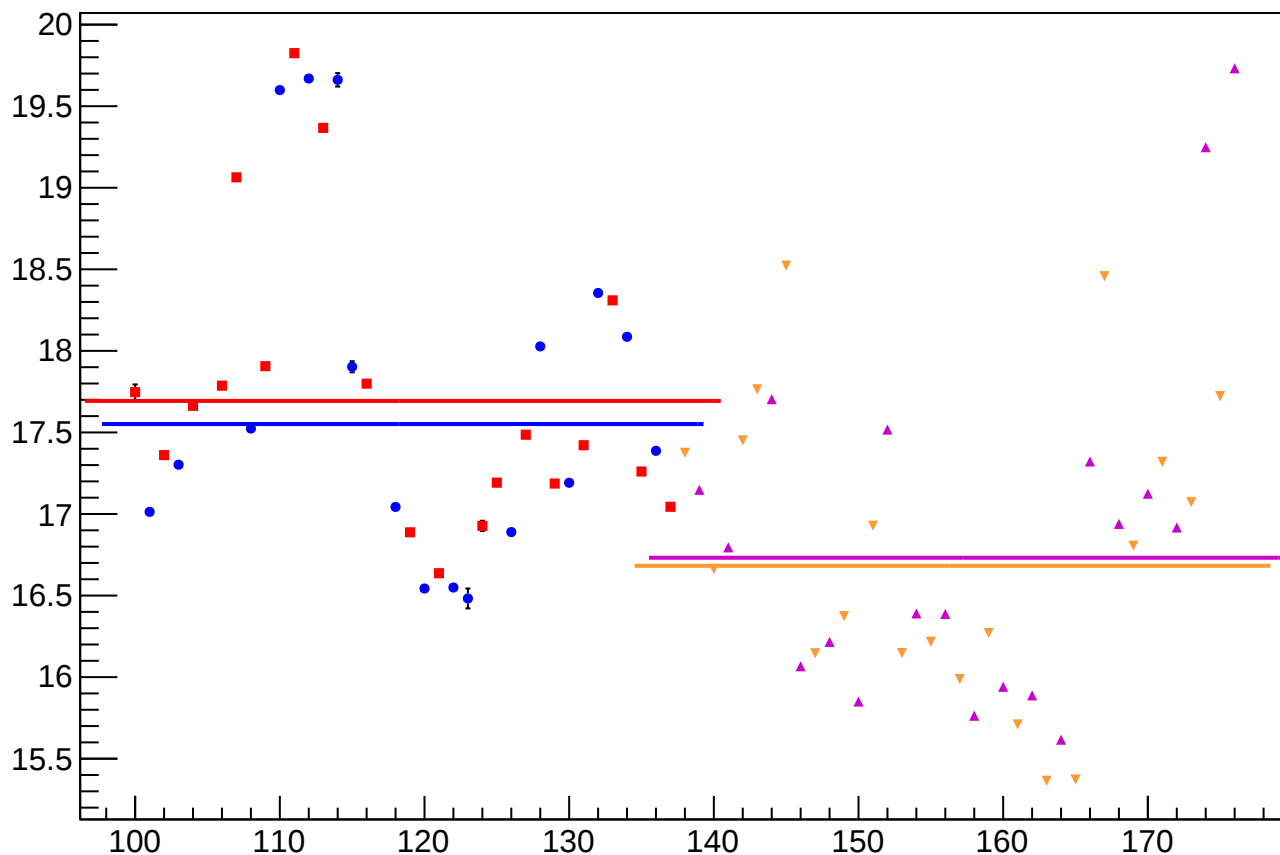
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 5.350 ± 3.679 χ^2/NDF : 31.4/35

Out: -2.517 ± 3.613 χ^2/NDF : 30.5/38

All: 1.345 ± 2.578 χ^2/NDF : 64.3/74

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: 16.683 $\pm$ 0.003 χ^2 /NDF:82561.9/19

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: 16.707 $\pm$ 0.002 χ^2 /NDF: 185021.2/38

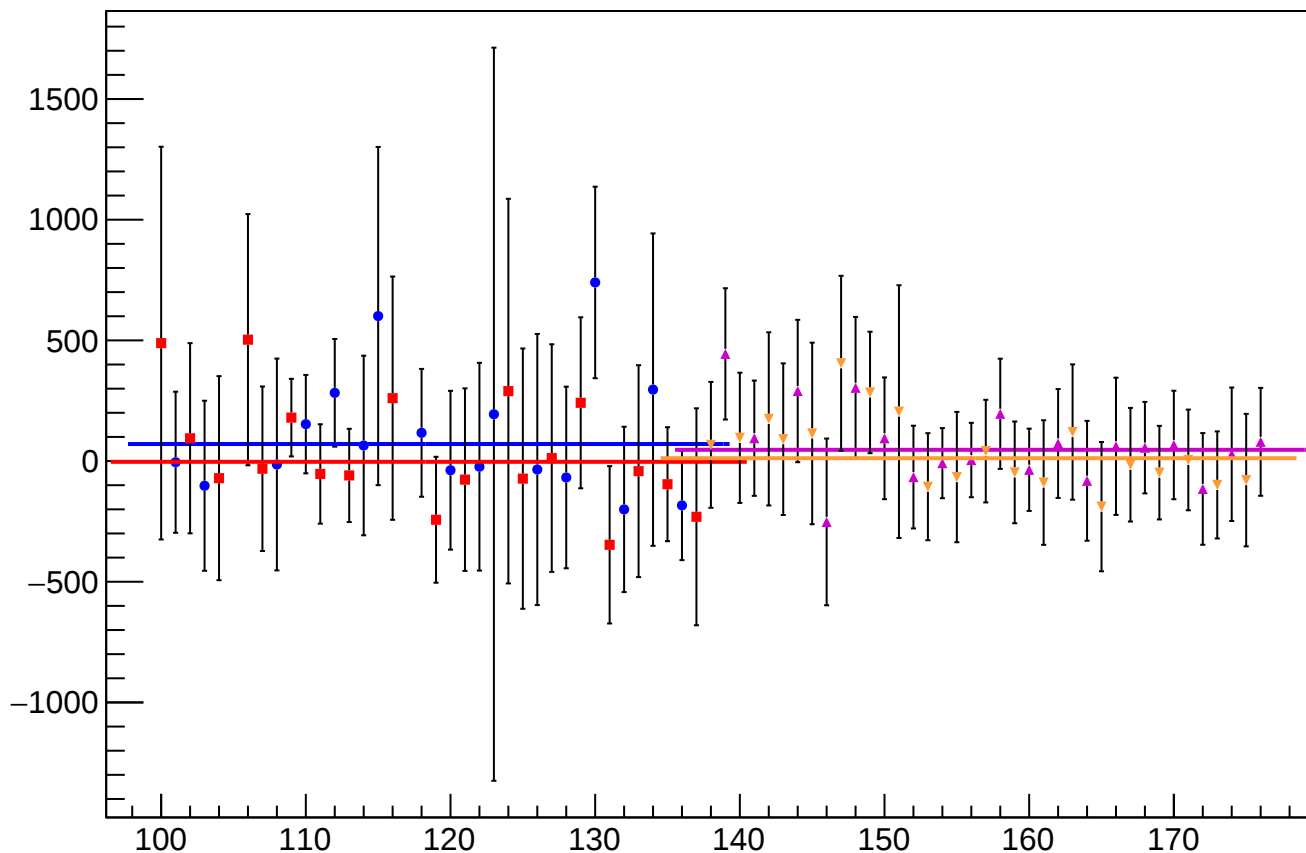
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.974 $\pm$ 0.003 χ^2 /NDF:157013.0/35

Out: 16.983 $\pm$ 0.003 χ^2 /NDF:146009.6/38

All: 16.979 $\pm$ 0.002 χ^2 /NDF: 303028.9/74

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: 11.835+/-57.536 χ^2/NDF : 4.8/19

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: 31.484+/-37.982 χ^2/NDF : 11.4/38

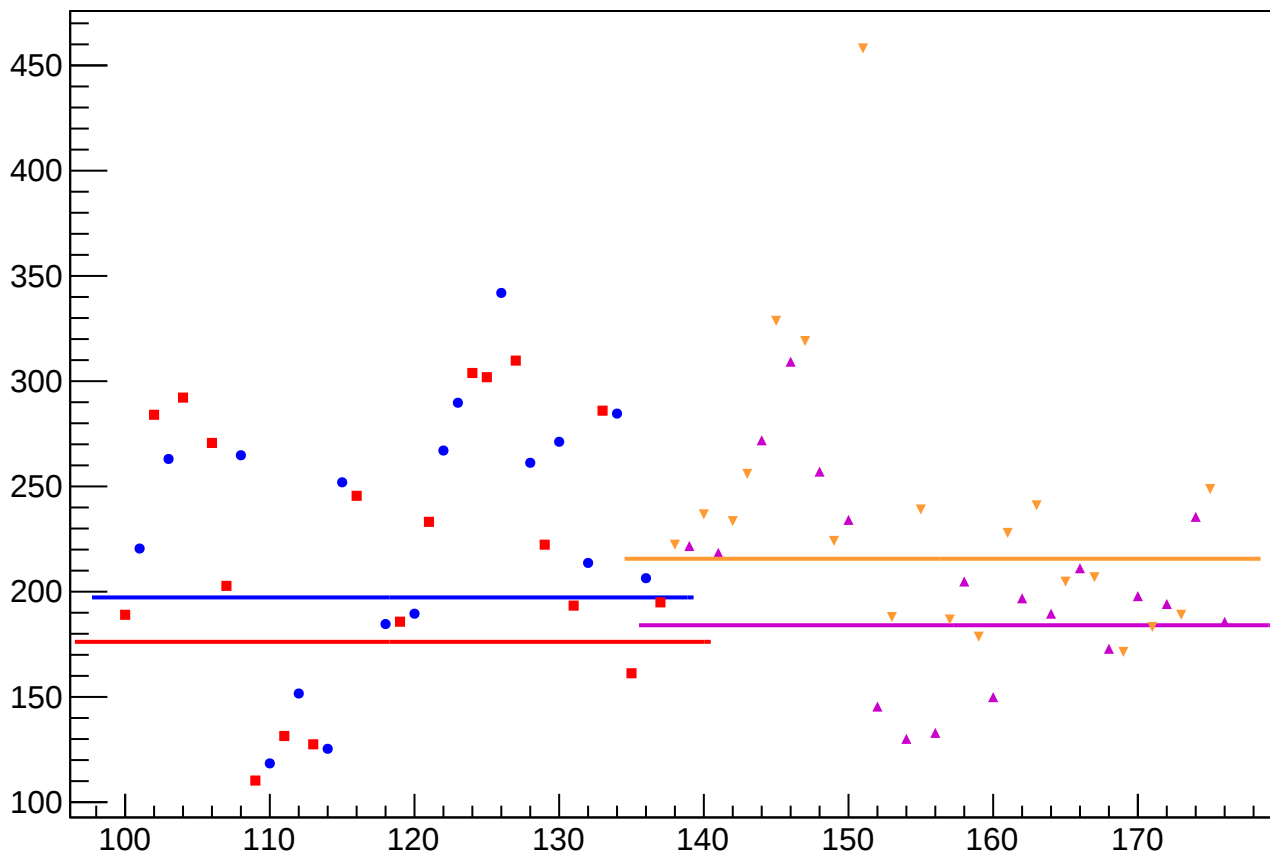
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 53.455+/-42.805 χ^2/NDF : 13.6/35

Out: 5.980+/-44.827 χ^2/NDF : 11.0/38

All: 30.812+/-30.958 χ^2/NDF : 25.2/74

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: 215.637+/-0.041 χ^2/NDF :1207864.8/19

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: 197.818+/-0.027 χ^2/NDF : 3042946.0/38

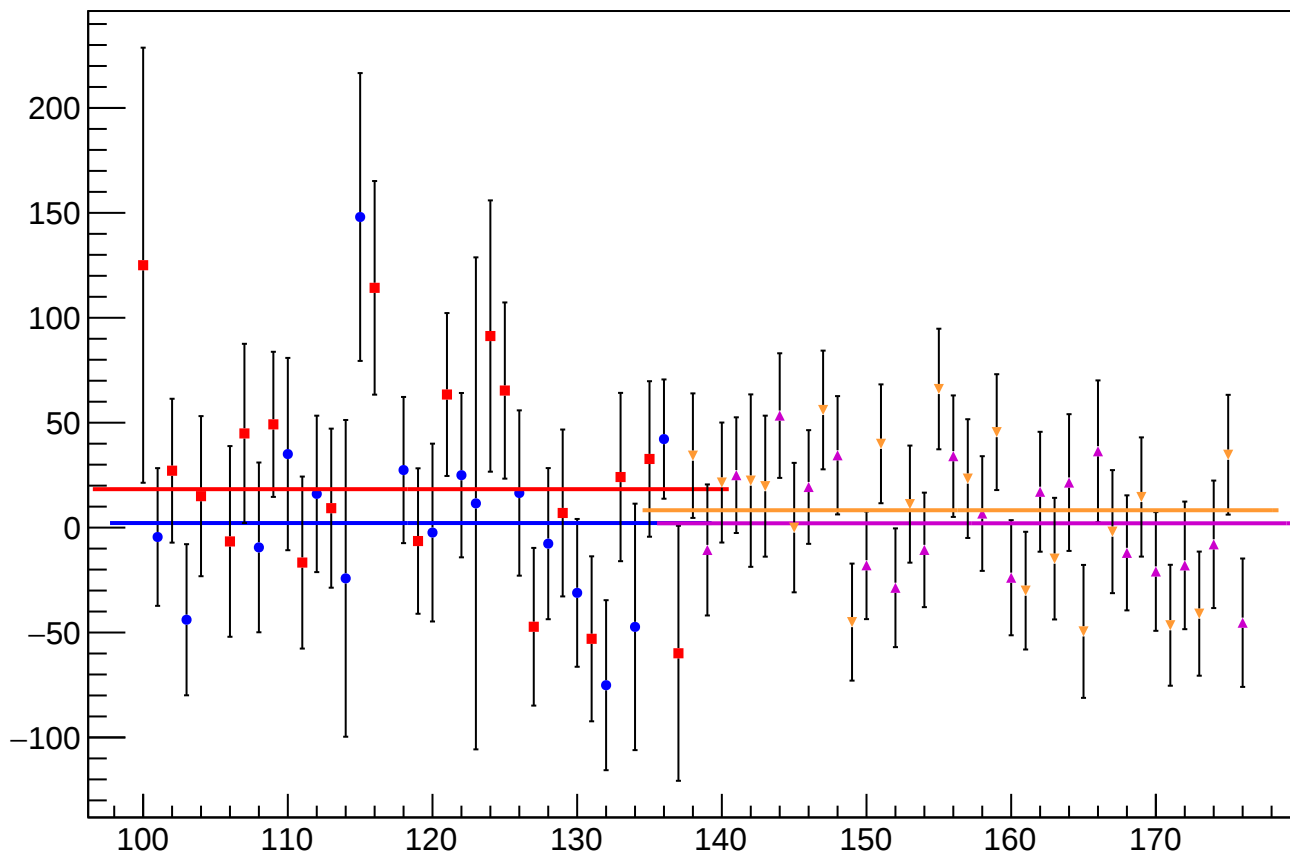
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 187.801+/-0.030 χ^2/NDF :2503358.8/35

Out: 200.131+/-0.032 χ^2/NDF :3097195.9/38

All: 193.681+/-0.022 χ^2/NDF : 5679709.3/74

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: 8.275+/-6.571 χ^2/NDF : 28.4/19

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: 5.184+/-4.658 χ^2/NDF : 44.1/38

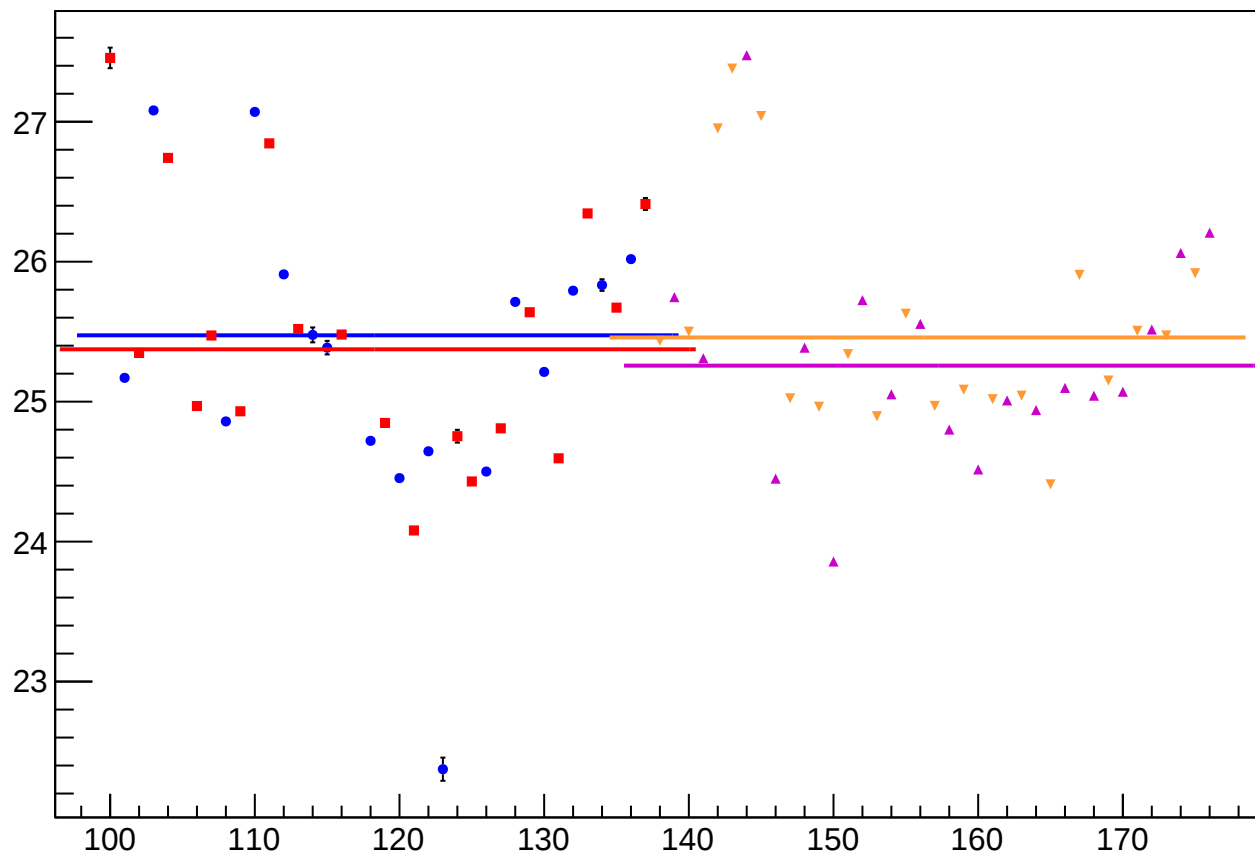
Right: 10.522+/-6.828 χ^2/NDF : 36.4/35

In: 2.097+/-5.481 χ^2/NDF : 30.6/35

Out: 11.527+/-5.404 χ^2/NDF : 48.8/38

All: 6.879+/-3.848 χ^2/NDF : 80.9/74

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.474 $\pm$ 0.007 χ^2/NDF : 14061.2/16

Left Out: 25.459 $\pm$ 0.005 χ^2/NDF :21752.6/19

Right Out: 25.374 $\pm$ 0.007 χ^2/NDF : 13581.2/18

Left In: 25.257 $\pm$ 0.005 χ^2/NDF :26387.2/18

Left: 25.358 $\pm$ 0.003 χ^2/NDF : 49073.5/38

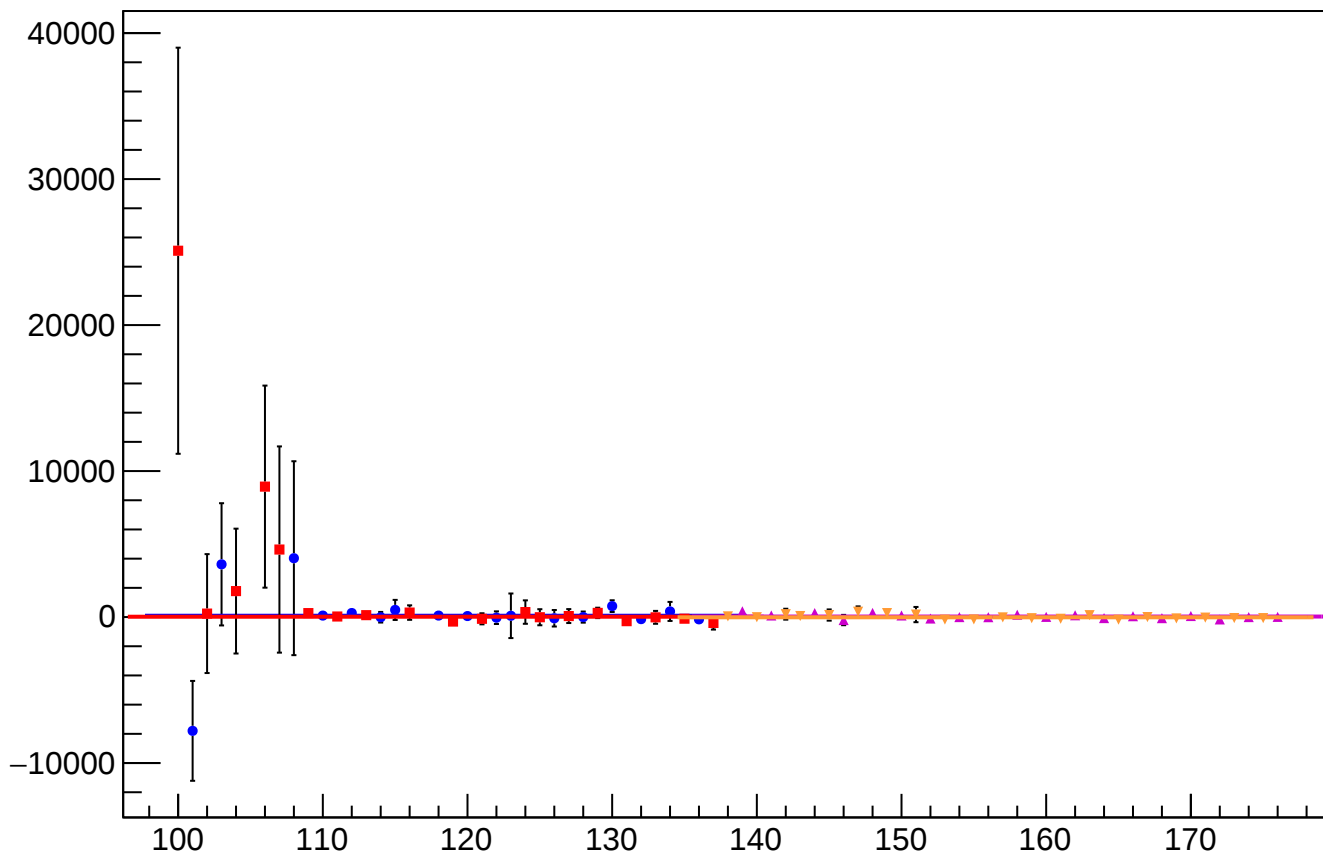
Right: 25.422 $\pm$ 0.005 χ^2/NDF : 27749.4/35

In: 25.325 $\pm$ 0.004 χ^2/NDF :41118.3/35

Out: 25.431 $\pm$ 0.004 χ^2/NDF :35441.1/38

All: 25.379 $\pm$ 0.003 χ^2/NDF : 76942.2/74

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: -16.815+/-57.913 χ^2/NDF : 4.9/19

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: 12.156+/-38.281 χ^2/NDF : 11.5/38

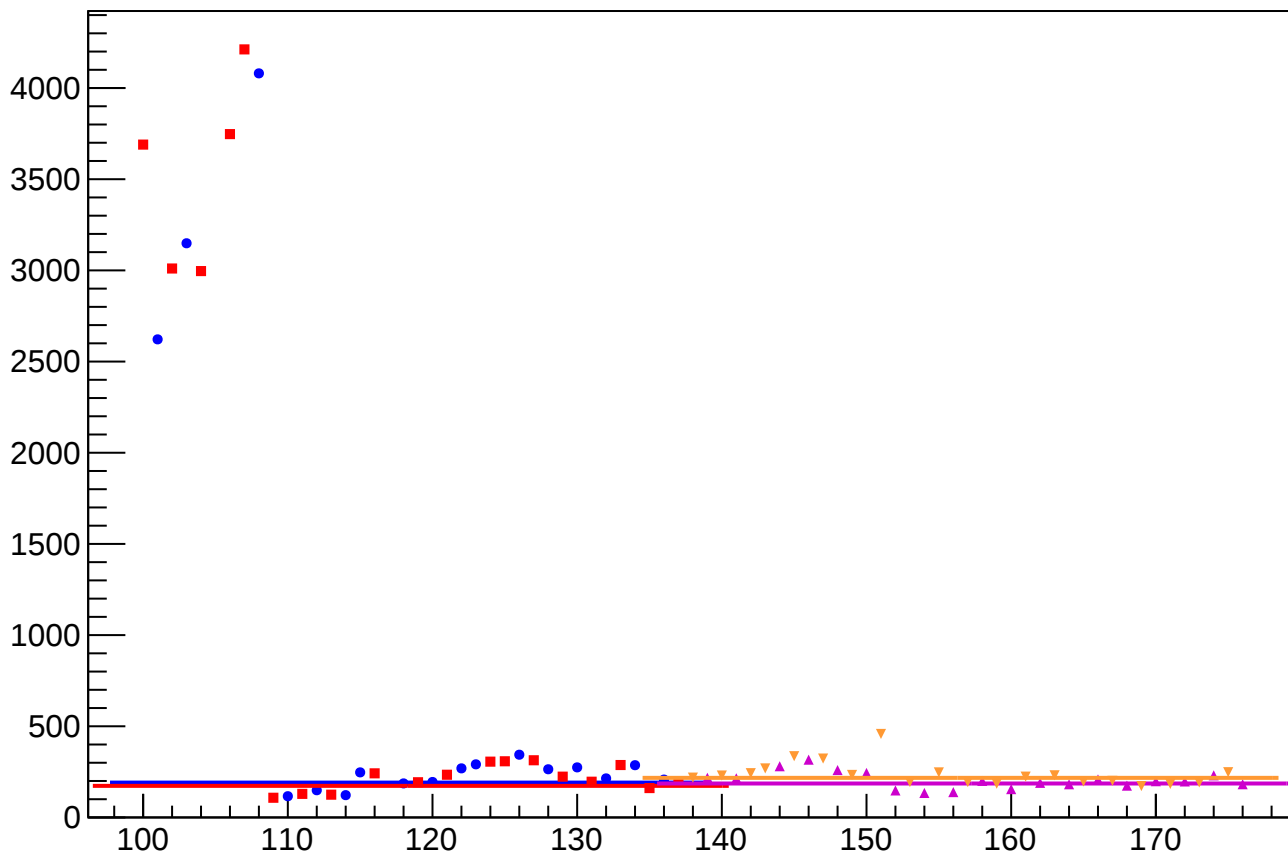
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 48.554+/-44.088 χ^2/NDF : 18.7/35

Out: -3.456+/-47.091 χ^2/NDF : 17.0/38

All: 24.260+/-32.184 χ^2/NDF : 36.3/74

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.190 $\pm$ 0.062 χ^2 /NDF: 3571747.5/16

Left Out: 217.168 $\pm$ 0.041 χ^2 /NDF:1201897.8/19

Right Out: 173.269 $\pm$ 0.057 χ^2 /NDF: 4207191.5/18

Left In: 186.193 $\pm$ 0.036 χ^2 /NDF:1372984.4/18

Left: 199.727 $\pm$ 0.027 χ^2 /NDF: 2897035.8/38

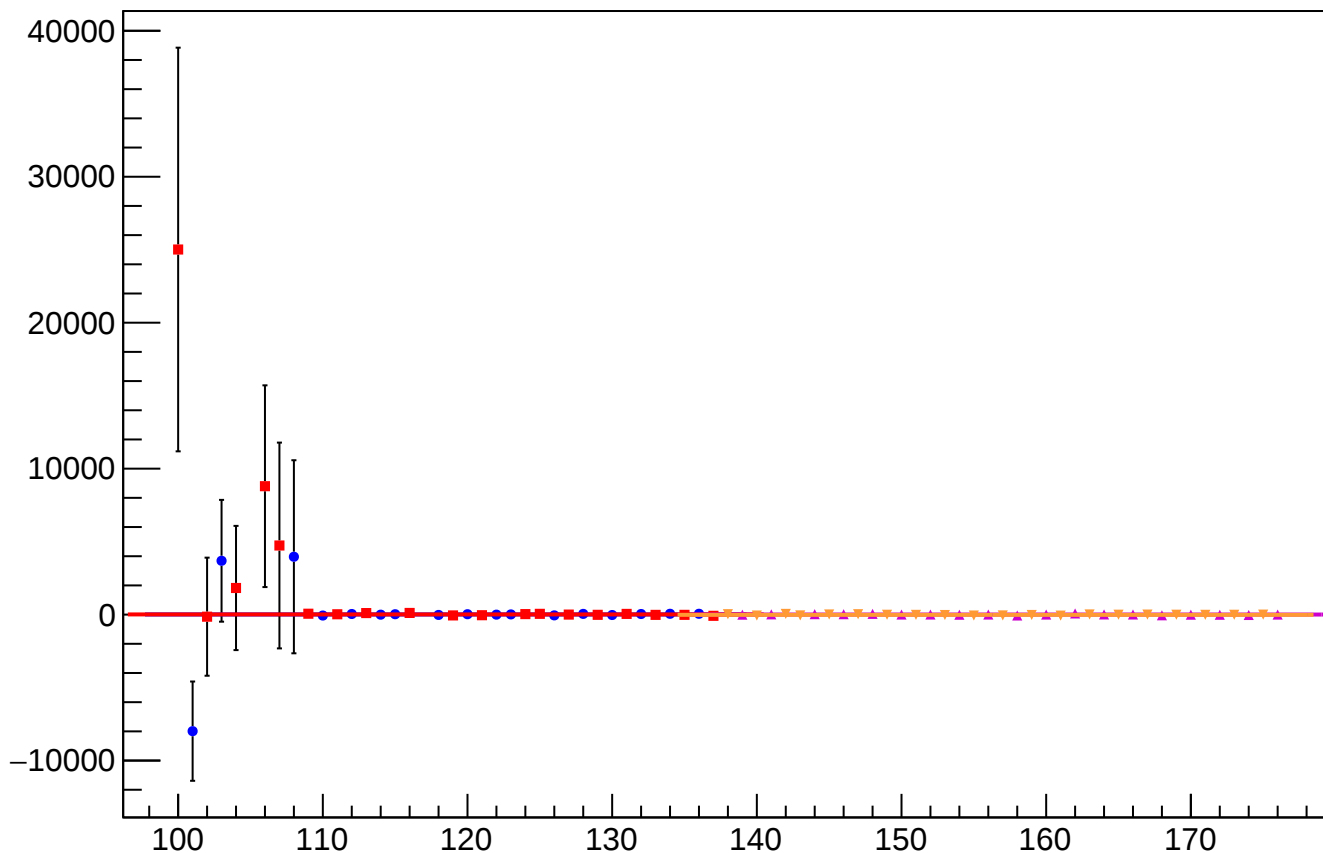
Right: 181.515 $\pm$ 0.042 χ^2 /NDF: 7824096.2/35

In: 187.458 $\pm$ 0.031 χ^2 /NDF:4949588.6/35

Out: 202.295 $\pm$ 0.033 χ^2 /NDF:5798447.3/38

All: 194.388 $\pm$ 0.023 χ^2 /NDF: 10853831.1/74

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: -16.408+/-7.465 χ^2/NDF :16.4/19

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: -5.930+/-5.297 χ^2/NDF : 39.1/38

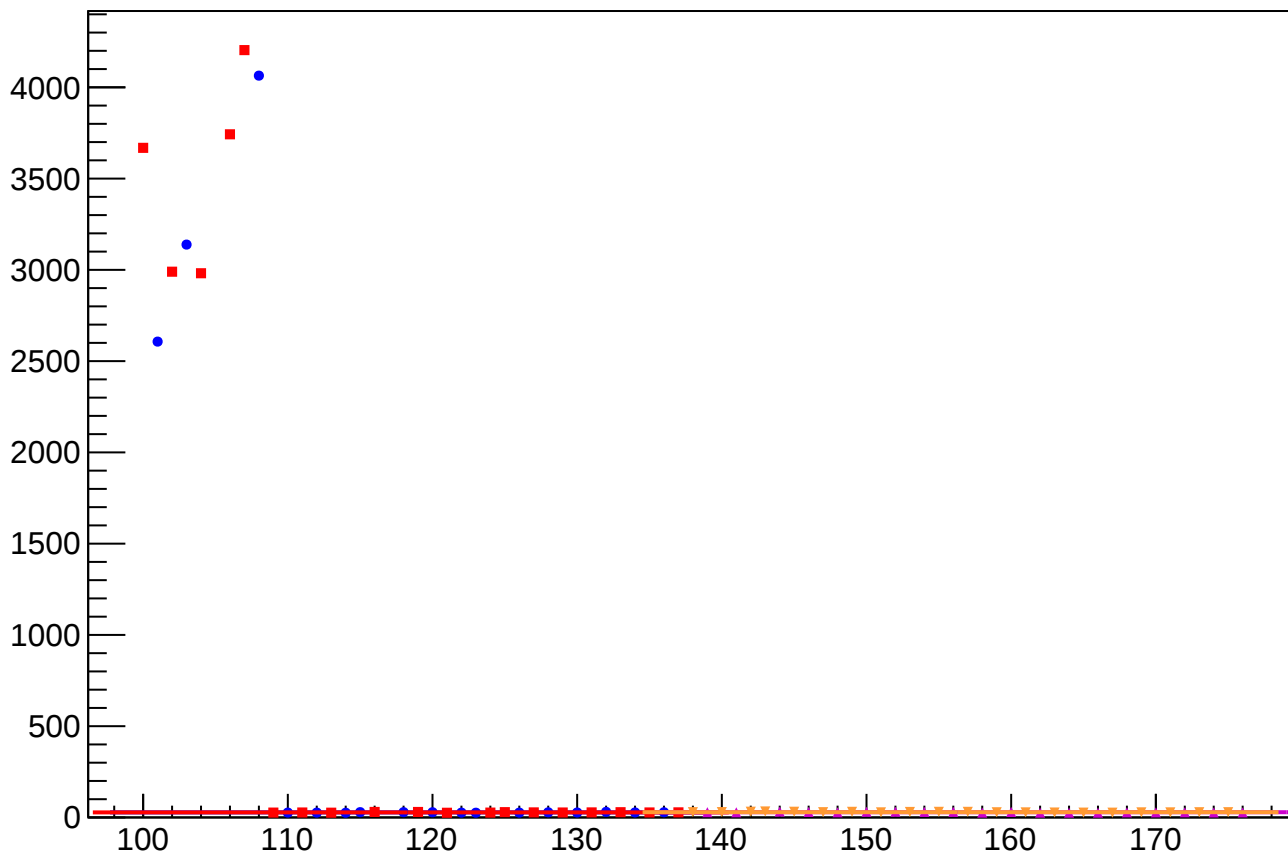
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 6.268+/-6.399 χ^2/NDF :37.1/35

Out: -8.438+/-6.371 χ^2/NDF :45.0/38

All: -1.117+/-4.515 χ^2/NDF : 84.8/74

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: 28.867 $\pm$ 0.005 χ^2 /NDF: 96589.8/19

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: 28.773 $\pm$ 0.004 χ^2 /NDF: 213800.5/38

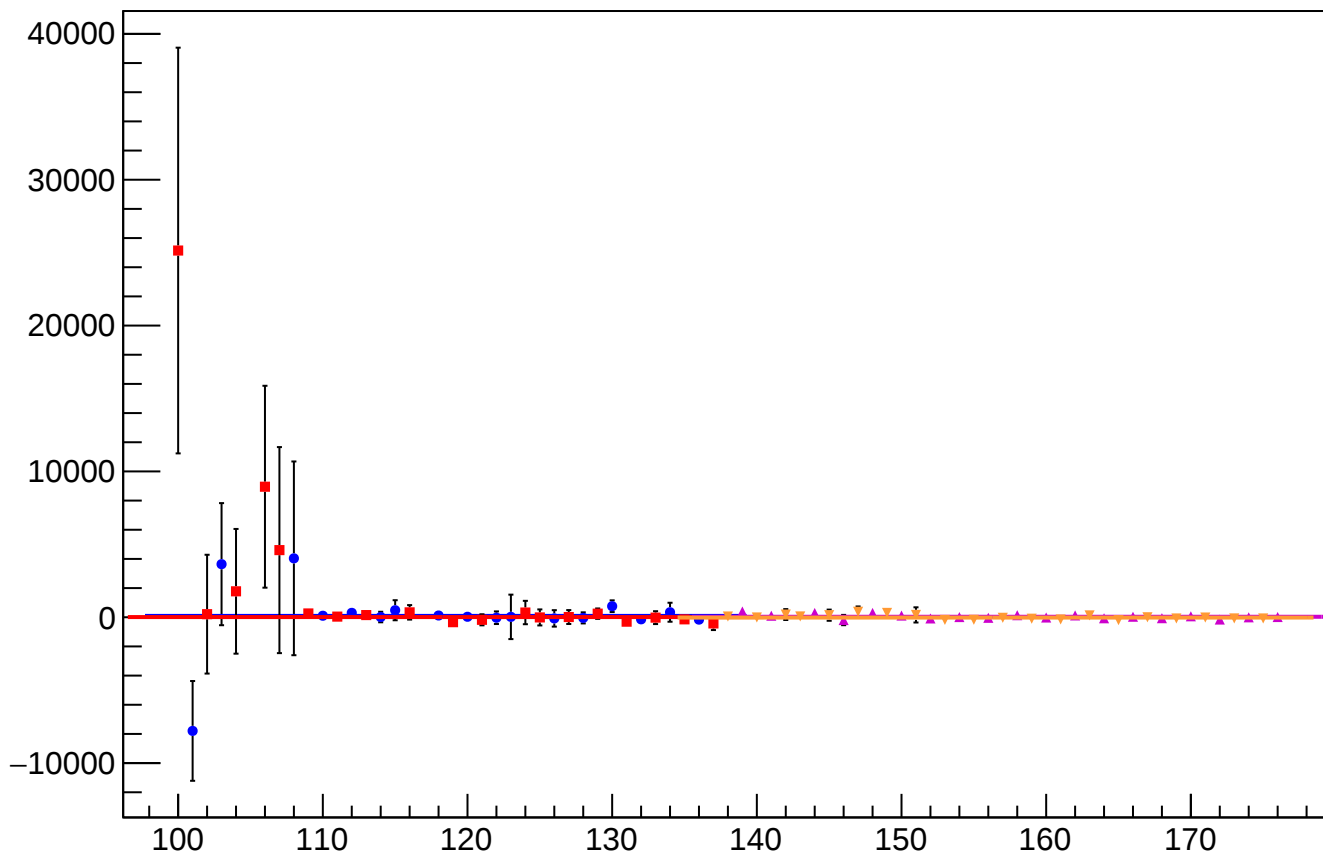
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.446 $\pm$ 0.005 χ^2 /NDF: 3150363.1/35

Out: 28.548 $\pm$ 0.005 χ^2 /NDF: 3586796.4/38

All: 28.497 $\pm$ 0.003 χ^2 /NDF: 6737416.7/74

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: -21.191+/-57.788 χ^2/NDF : 5.6/19

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: 9.651+/-38.201 χ^2/NDF : 12.2/38

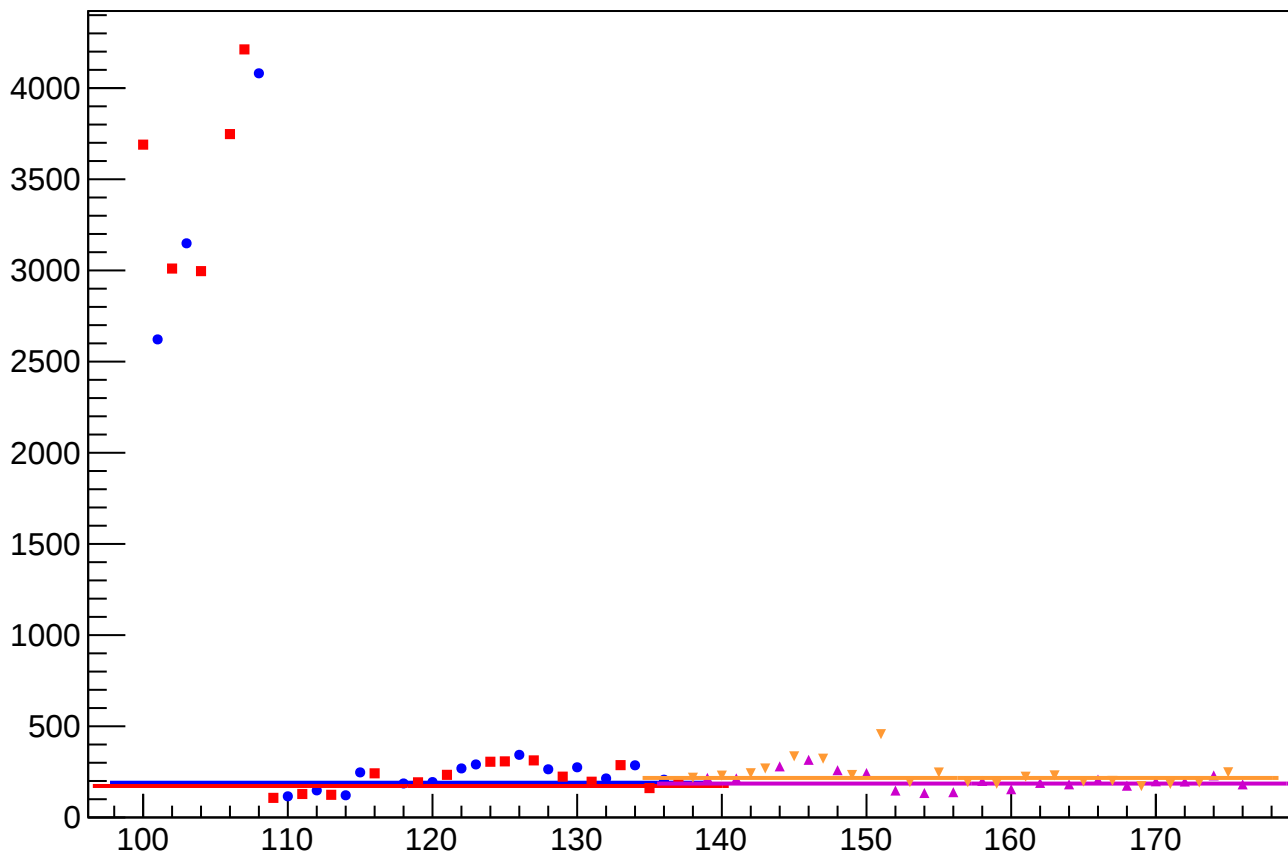
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 48.612+/-43.987 χ^2/NDF : 19.1/35

Out: -9.668+/-46.972 χ^2/NDF : 18.3/38

All: 21.383+/-32.107 χ^2/NDF : 38.2/74

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: 216.703 +/- 0.041 χ^2/NDF : 1201502.3/19

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: 199.313 +/- 0.027 χ^2/NDF : 2895996.6/38

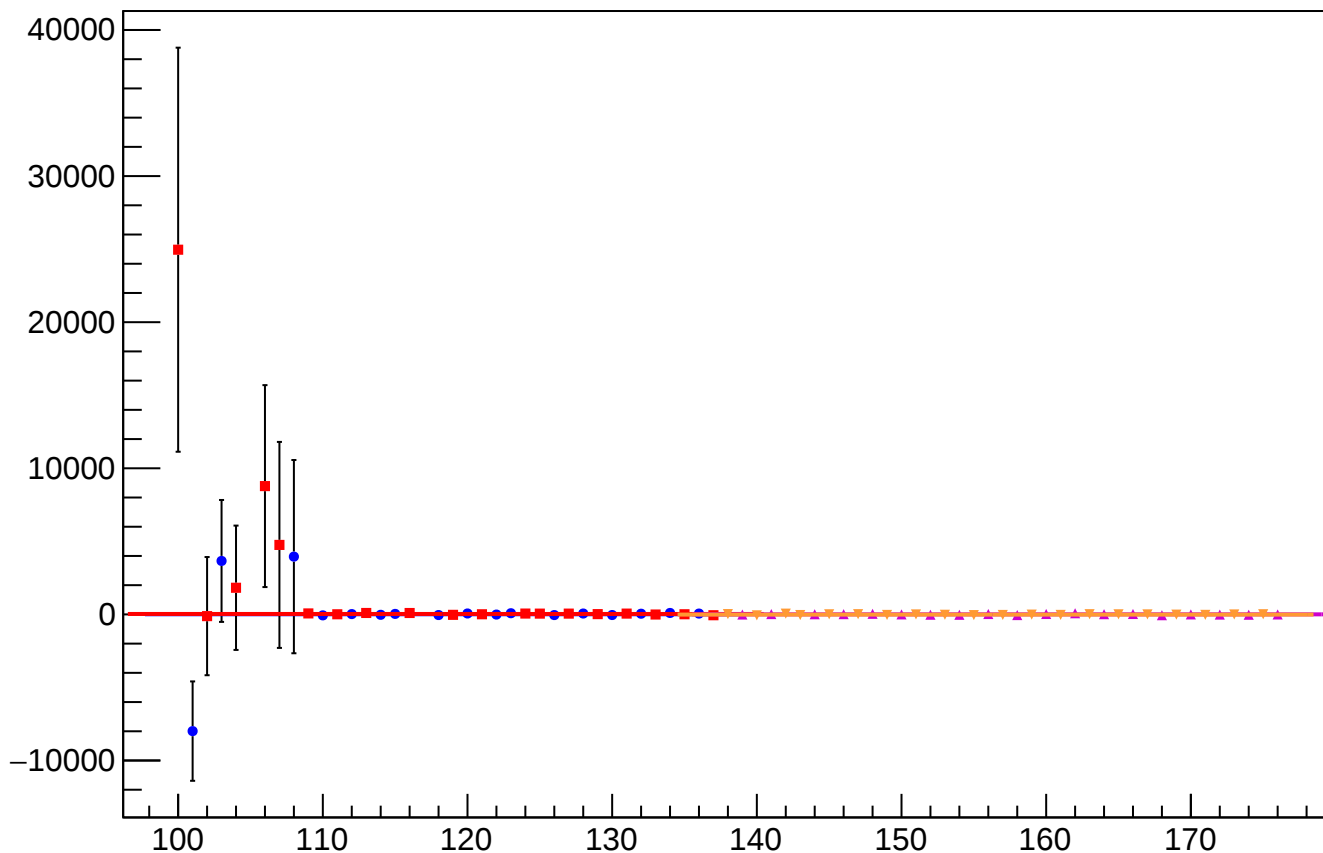
Right: 180.829 +/- 0.042 χ^2/NDF : 7847214.0/35

In: 187.000 +/- 0.031 χ^2/NDF : 4960659.5/35

Out: 201.739 +/- 0.033 χ^2/NDF : 5815105.7/38

All: 193.886 +/- 0.023 χ^2/NDF : 10880688.4/74

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: -12.849+/-7.513 χ^2/NDF : 11.5/19

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: -4.700+/-5.327 χ^2/NDF : 32.4/38

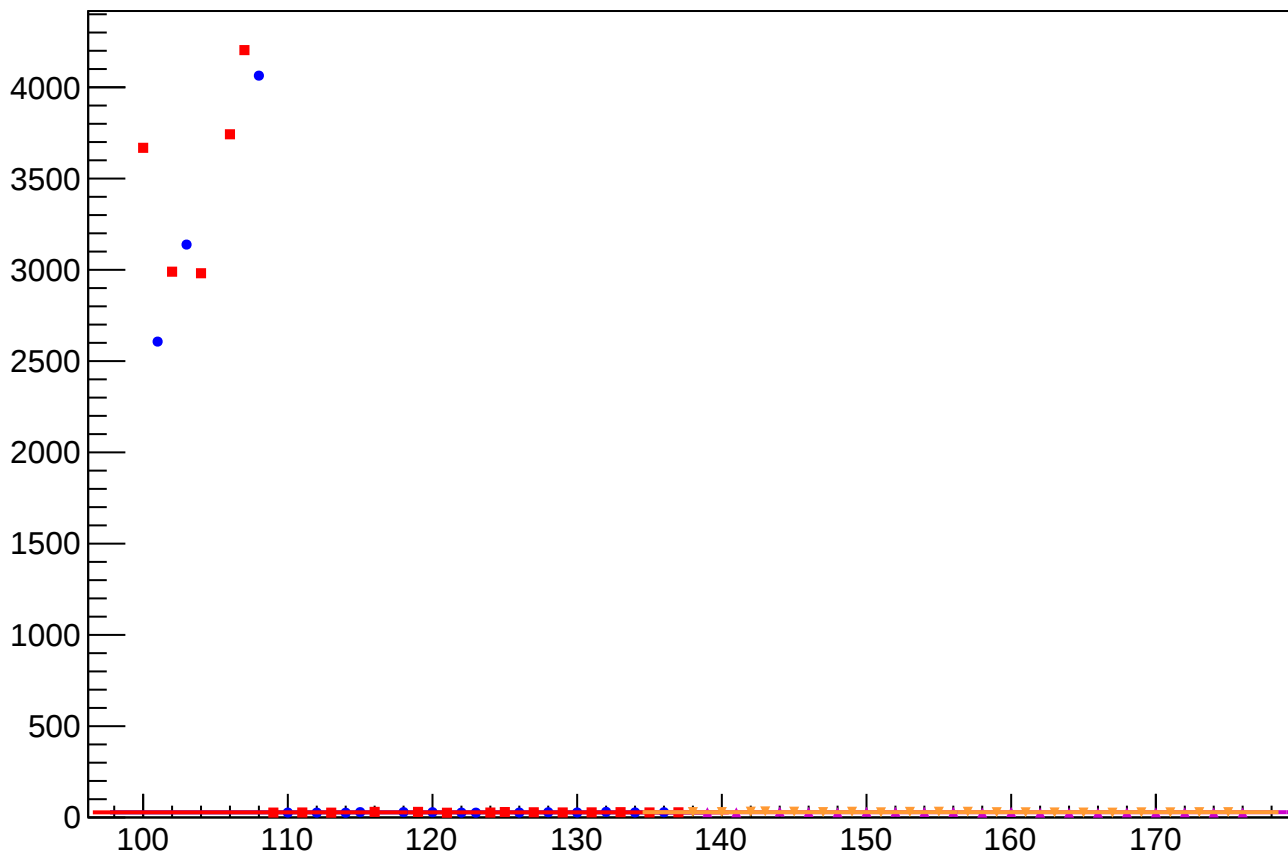
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 5.203+/-6.433 χ^2/NDF : 41.9/35

Out: -1.345+/-6.416 χ^2/NDF : 36.7/38

All: 1.920+/-4.543 χ^2/NDF : 79.1/74

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023+/-0.009 χ^2 /NDF: 3027003.0/16

Left Out: 29.051+/-0.005 χ^2 /NDF: 102477.6/19

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: 28.935+/-0.004 χ^2 /NDF: 223664.0/38

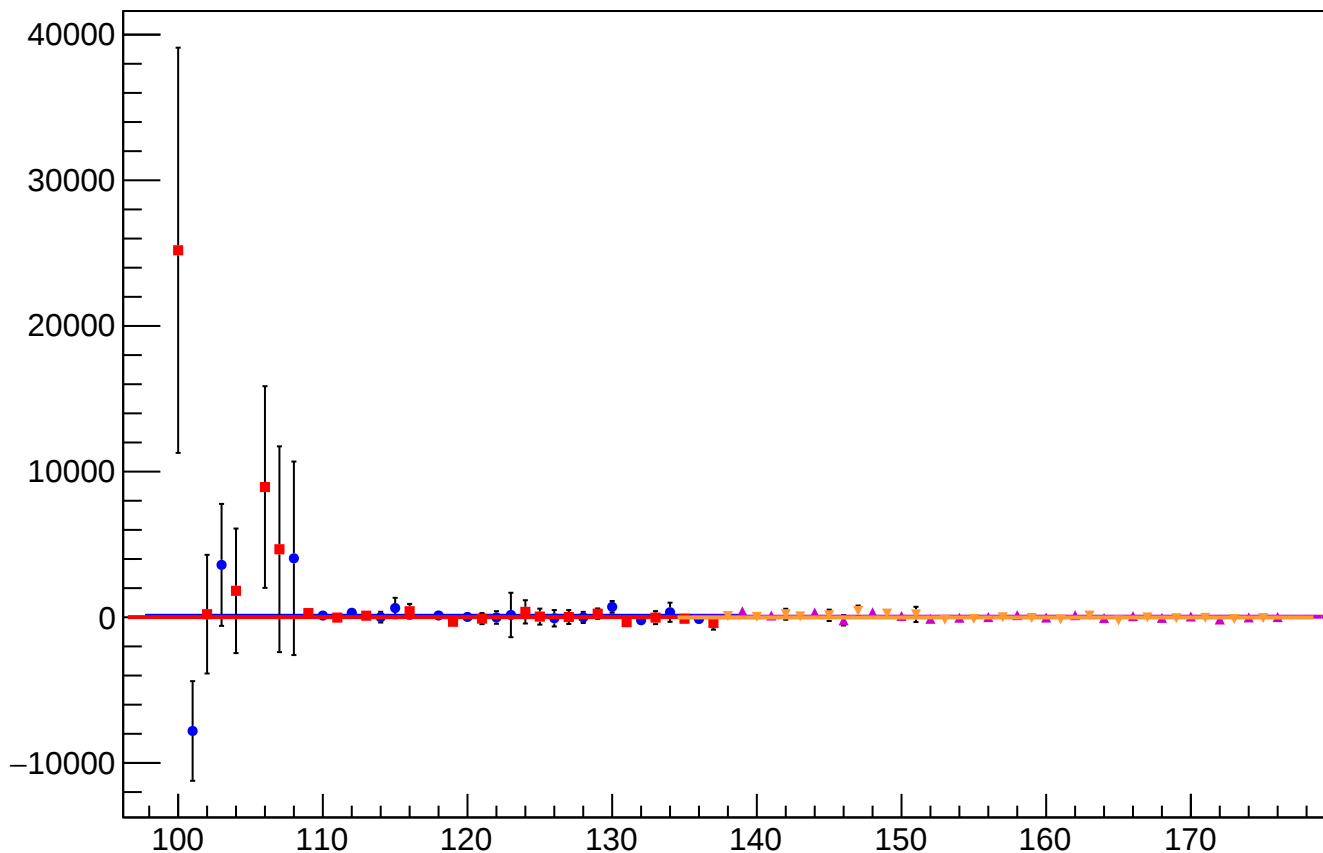
Right: 27.970+/-0.006 χ^2 /NDF: 6506687.7/35

In: 28.599+/-0.005 χ^2 /NDF: 3153303.8/35

Out: 28.744+/-0.005 χ^2 /NDF: 3594435.1/38

All: 28.672+/-0.003 χ^2 /NDF: 6748248.5/74

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: -13.830 $\pm$ 58.473 χ^2 /NDF:5.5/19

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: 16.675 $\pm$ 38.675 χ^2 /NDF: 12.7/38

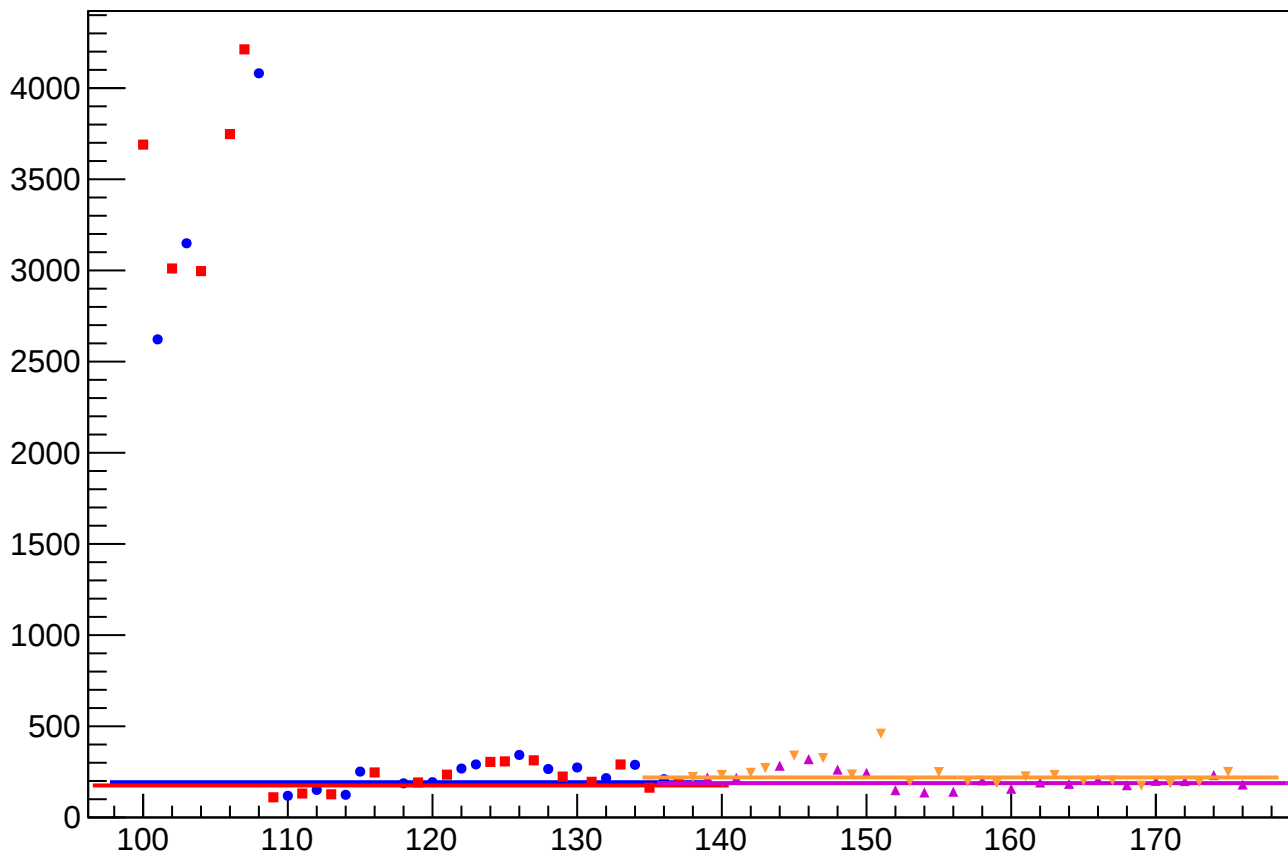
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 55.980 $\pm$ 44.539 χ^2 /NDF:19.5/35

Out: -5.346 $\pm$ 47.555 χ^2 /NDF:17.8/38

All: 27.323 $\pm$ 32.508 χ^2 /NDF: 38.1/74

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.190 $\pm$ 0.063 χ^2 /NDF: 3536123.5/16

Left Out: 219.388 $\pm$ 0.041 χ^2 /NDF: 1186350.0/19

Right Out: 175.485 $\pm$ 0.058 χ^2 /NDF: 4165391.7/18

Left In: 188.351 $\pm$ 0.036 χ^2 /NDF: 1342539.5/18

Left: 201.928 $\pm$ 0.027 χ^2 /NDF: 2845857.6/38

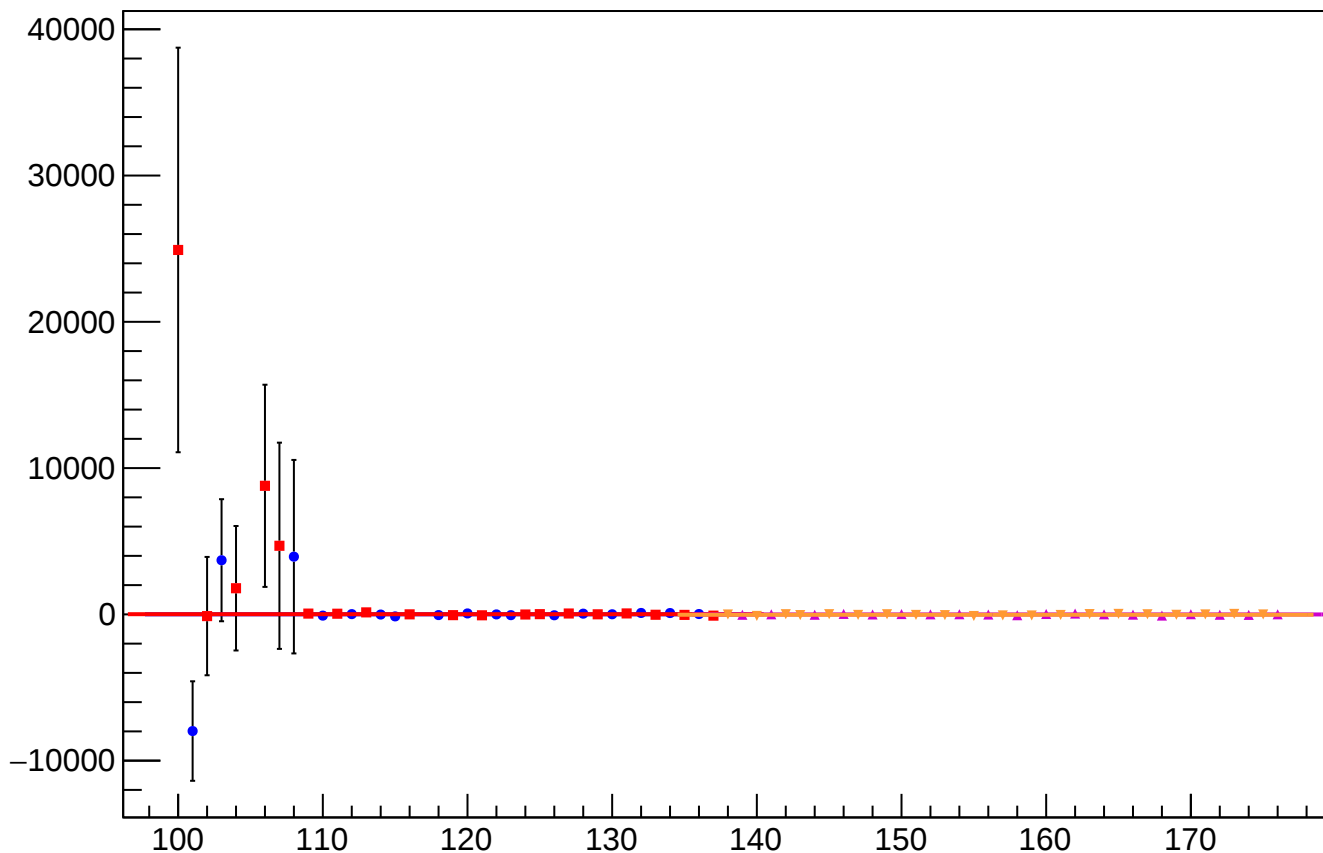
Right: 183.645 $\pm$ 0.042 χ^2 /NDF: 7744773.8/35

In: 189.580 $\pm$ 0.031 χ^2 /NDF: 4883135.2/35

Out: 204.523 $\pm$ 0.034 χ^2 /NDF: 5733461.0/38

All: 196.563 $\pm$ 0.023 χ^2 /NDF: 10721800.6/74

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: -26.267+/-8.977 χ^2/NDF : 21.3/19

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: -15.682+/-6.374 χ^2/NDF : 37.0/38

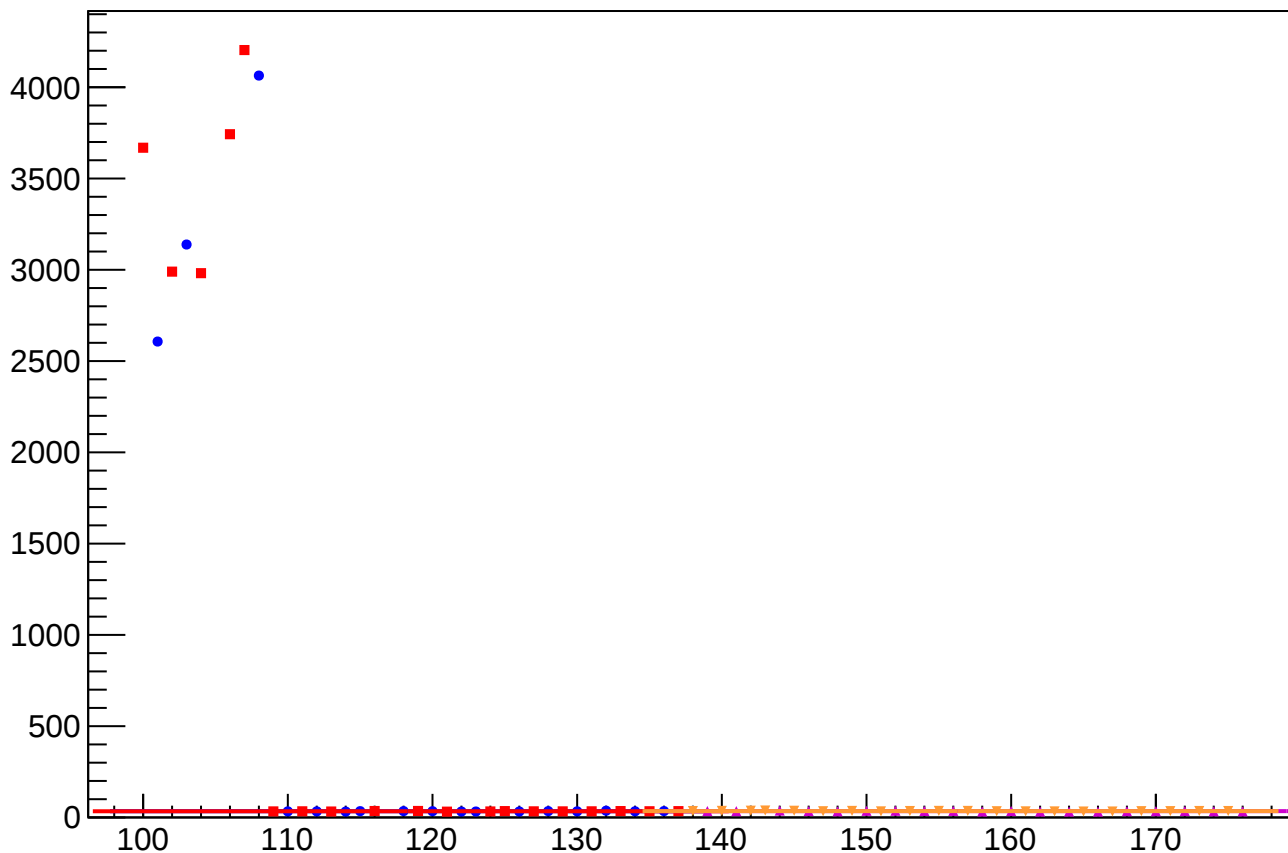
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -2.350+/-7.741 χ^2/NDF : 33.5/35

Out: -15.994+/-7.696 χ^2/NDF : 48.0/38

All: -9.212+/-5.457 χ^2/NDF : 83.1/74

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.137+/-0.011 χ^2 /NDF: 3006248.0/16

Left Out: 34.766+/-0.006 χ^2 /NDF:47649.7/19

Right Out: 33.913+/-0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.592+/-0.006 χ^2 /NDF:54079.6/18

Left: 34.680+/-0.005 χ^2 /NDF: 102103.4/38

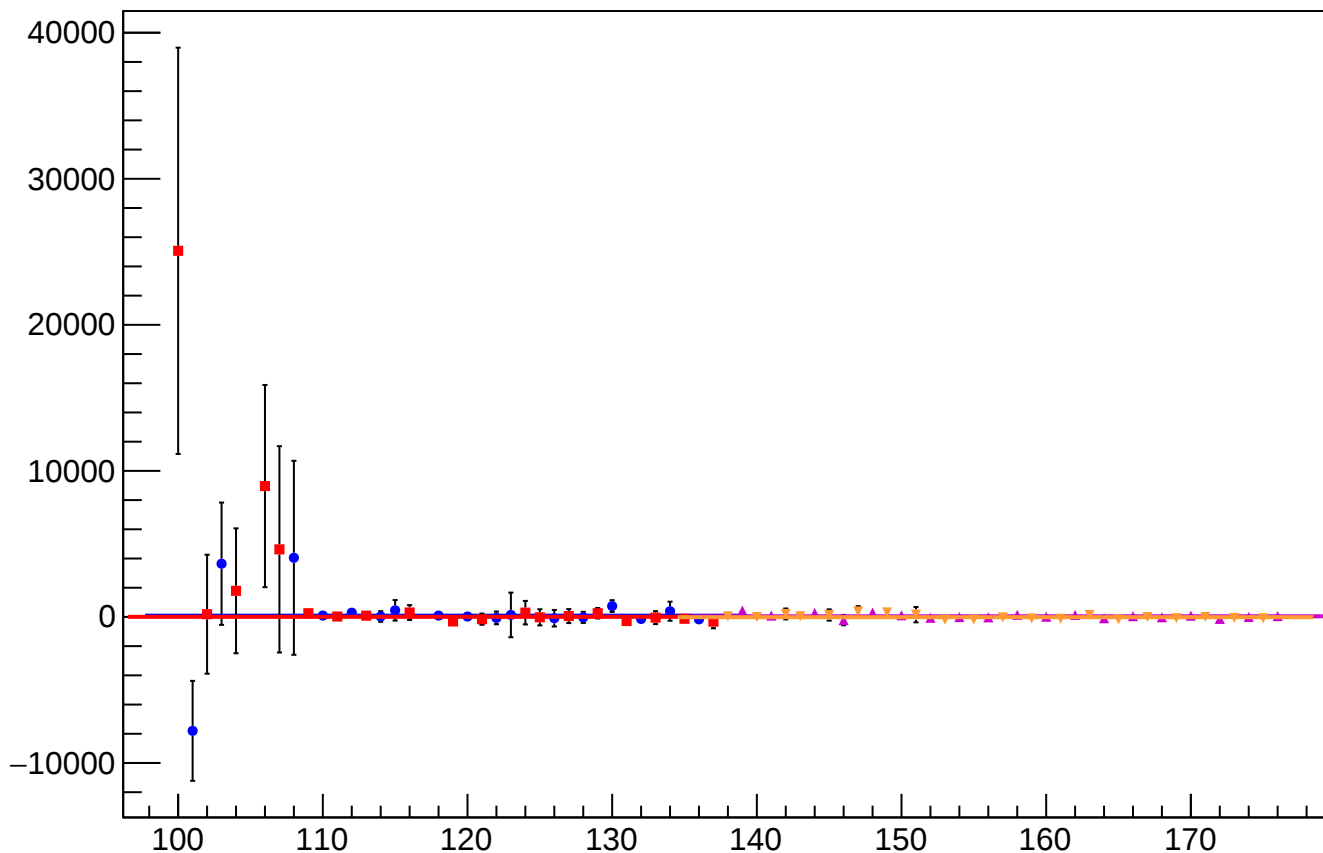
Right: 34.025+/-0.007 χ^2 /NDF: 6458362.5/35

In: 34.470+/-0.005 χ^2 /NDF:3061681.6/35

Out: 34.540+/-0.005 χ^2 /NDF:3504330.6/38

All: 34.505+/-0.004 χ^2 /NDF: 6566094.8/74

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: -17.501+/-58.364 χ^2/NDF : 5.4/19

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: 17.136+/-38.613 χ^2/NDF : 12.1/38

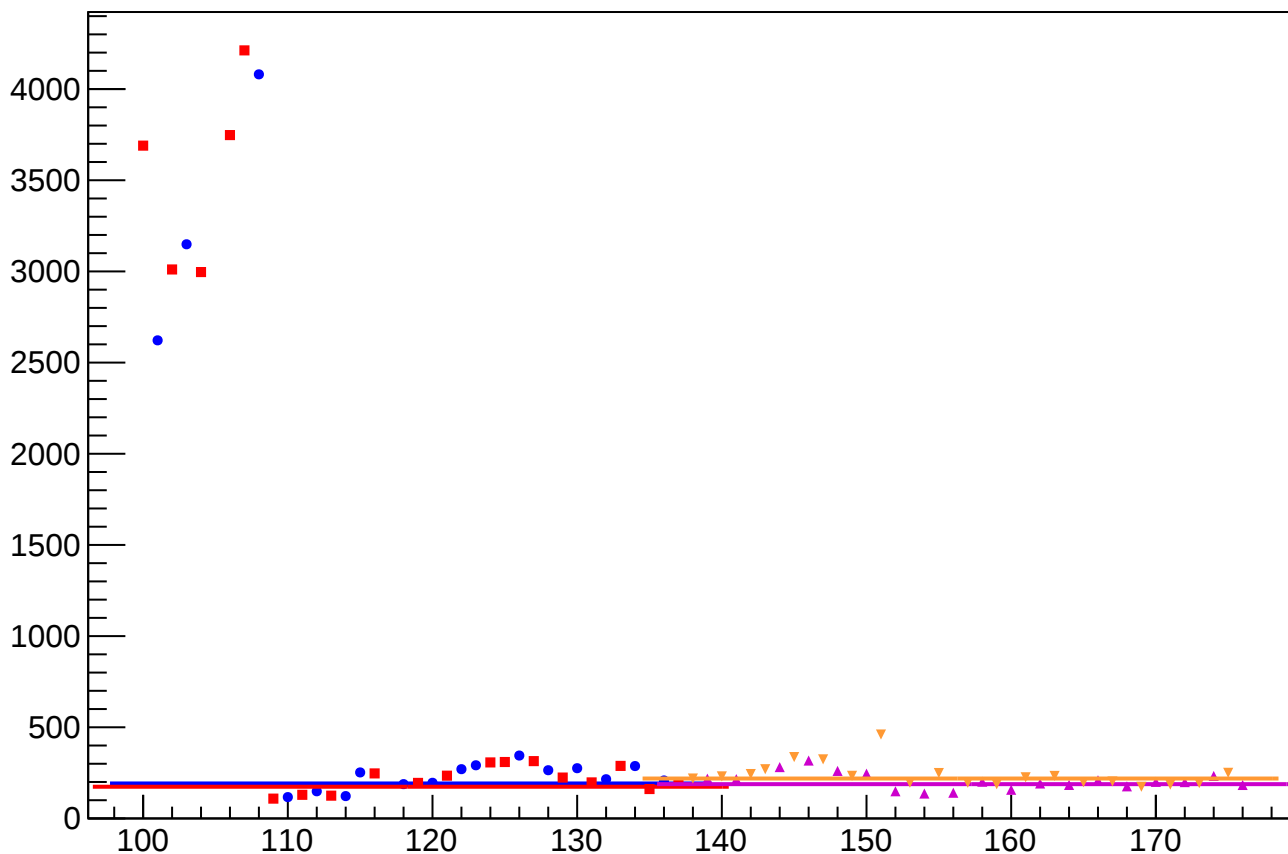
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 54.806+/-44.437 χ^2/NDF : 18.6/35

Out: -9.055+/-47.394 χ^2/NDF : 16.6/38

All: 24.930+/-32.417 χ^2/NDF : 36.1/74

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: 218.979+/-0.041 χ^2/NDF : 1179410.7/19

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: 201.619+/-0.027 χ^2/NDF : 2825293.9/38

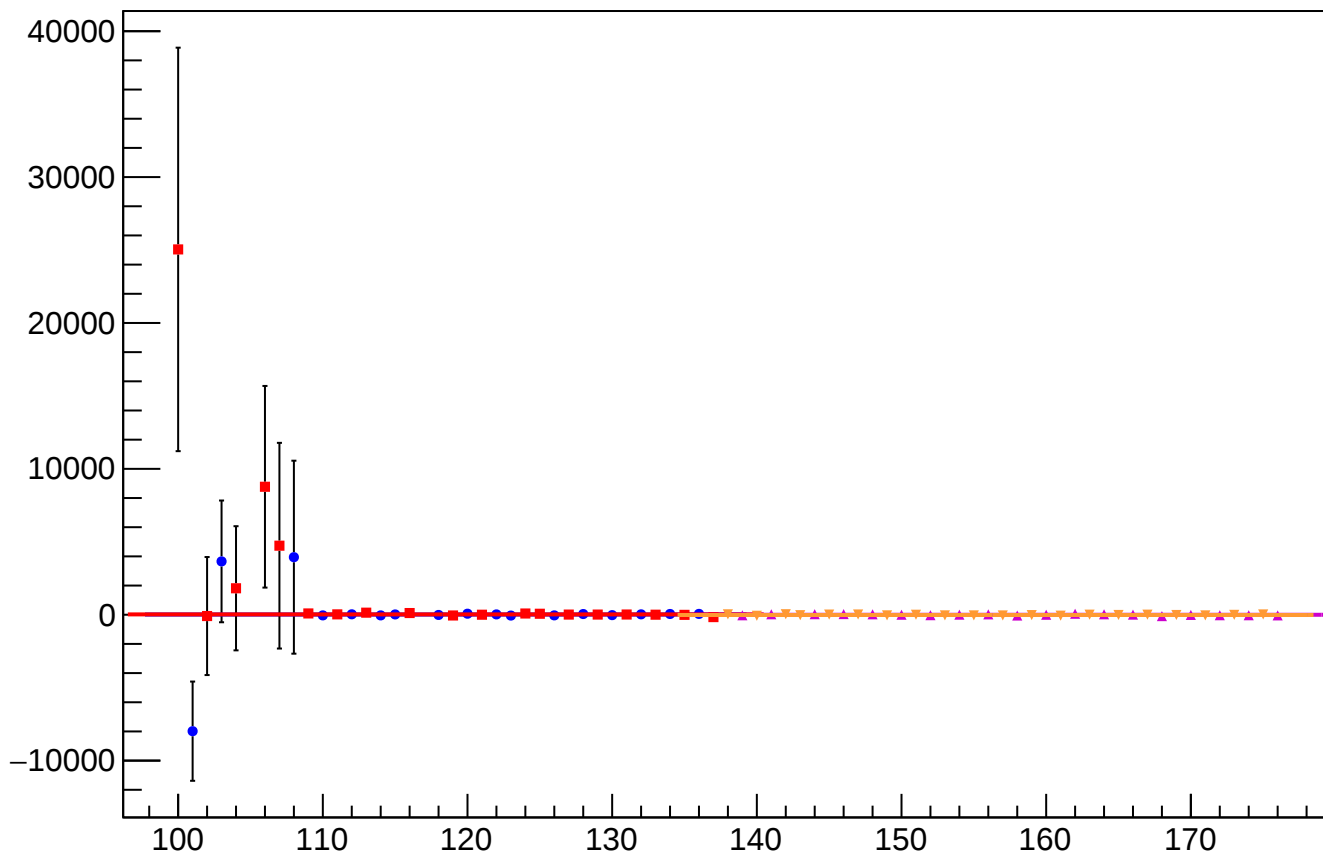
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 189.069+/-0.031 χ^2/NDF : 4907012.1/35

Out: 203.635+/-0.034 χ^2/NDF : 5796669.1/38

All: 195.883+/-0.023 χ^2/NDF : 10804203.1/74

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: -18.800+/-8.125 χ^2/NDF :13.5/19

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: -11.087+/-5.781 χ^2/NDF : 40.3/38

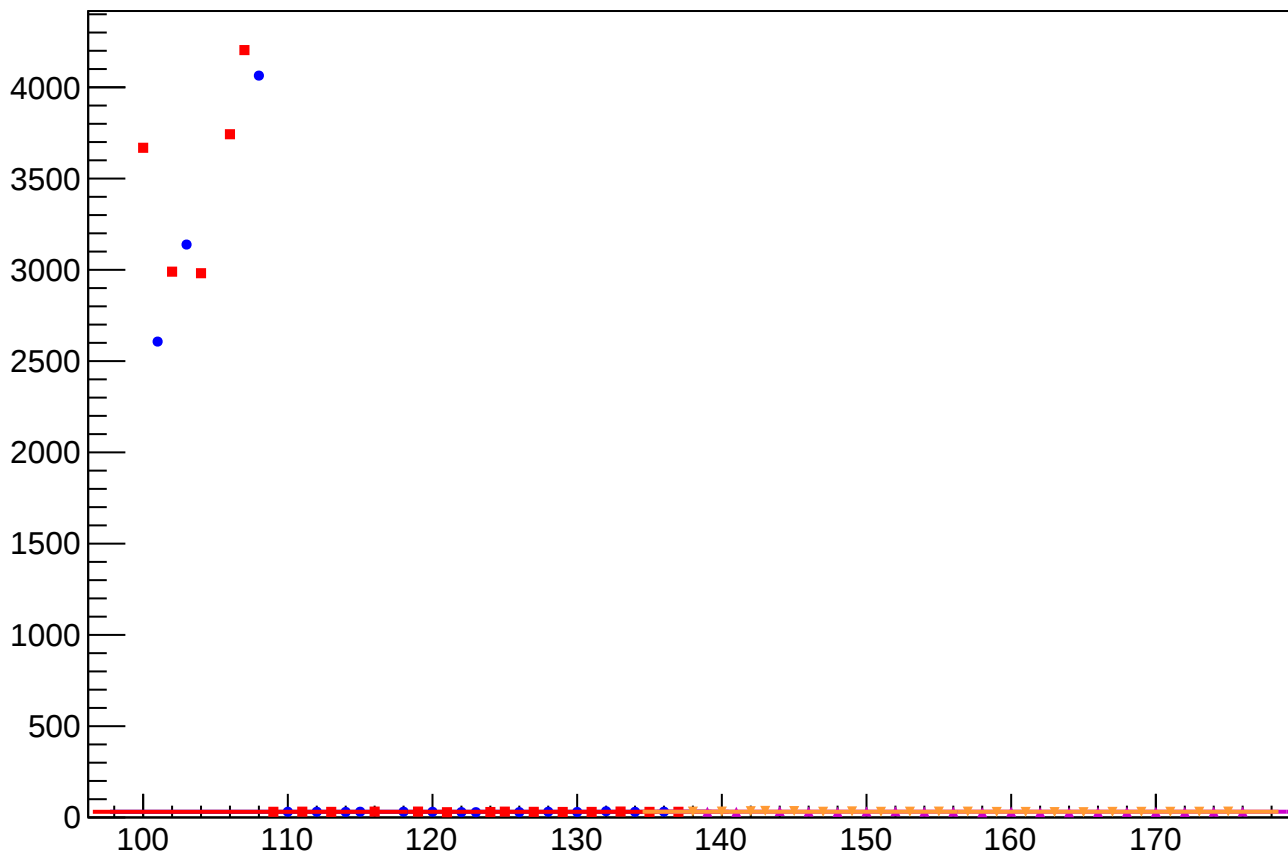
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 1.443+/-7.041 χ^2/NDF :41.3/35

Out: -7.773+/-6.983 χ^2/NDF :48.0/38

All: -3.203+/-4.958 χ^2/NDF : 90.2/74

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: 31.440 $\pm$ 0.006 χ^2 /NDF: 73792.4/19

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: 31.418 $\pm$ 0.004 χ^2 /NDF: 158401.2/38

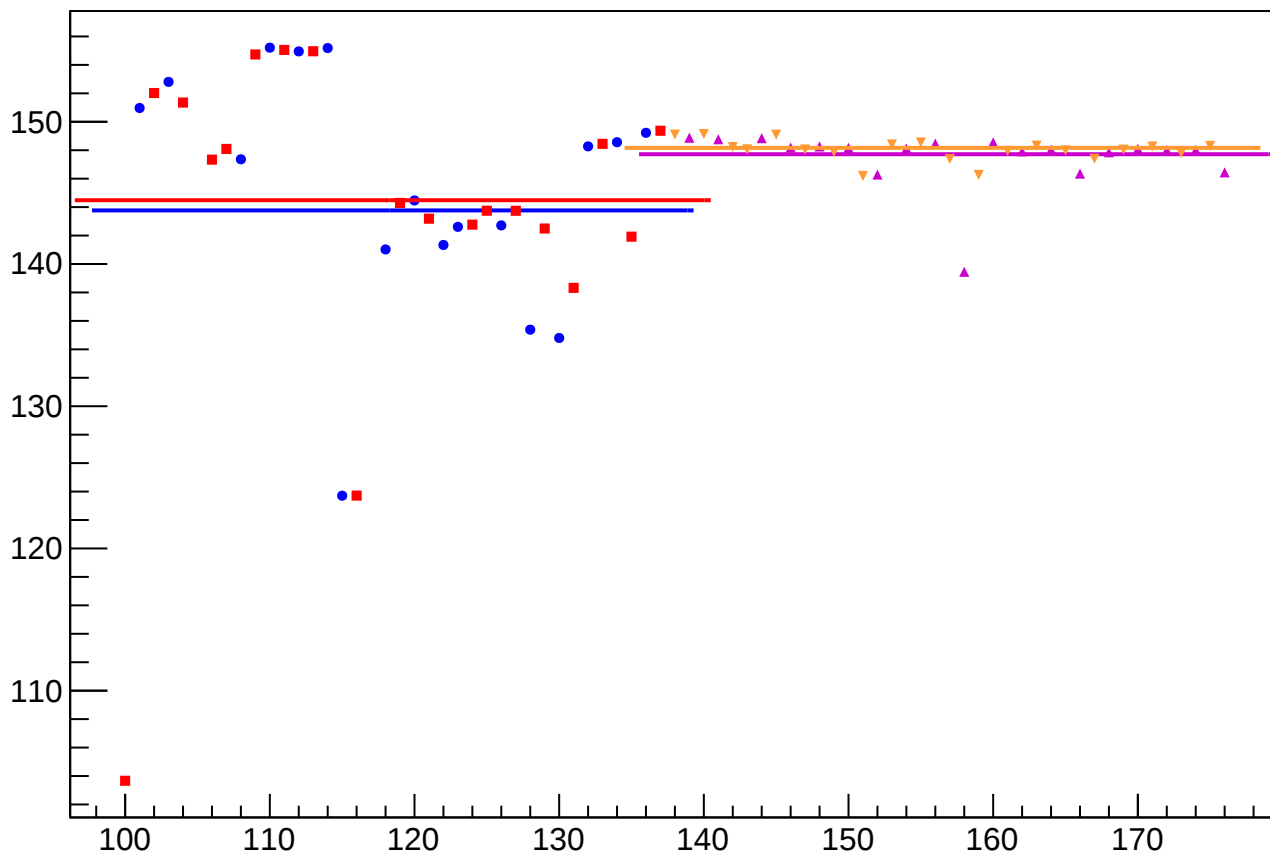
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.324 $\pm$ 0.005 χ^2 /NDF: 3099582.0/35

Out: 31.315 $\pm$ 0.005 χ^2 /NDF: 3534537.5/38

All: 31.320 $\pm$ 0.004 χ^2 /NDF: 6634121.2/74

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.167 $\pm$ 0.000 χ^2 /NDF: 52918458.6/19

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: 147.950 $\pm$ 0.000 χ^2 /NDF: 389997292.7/38

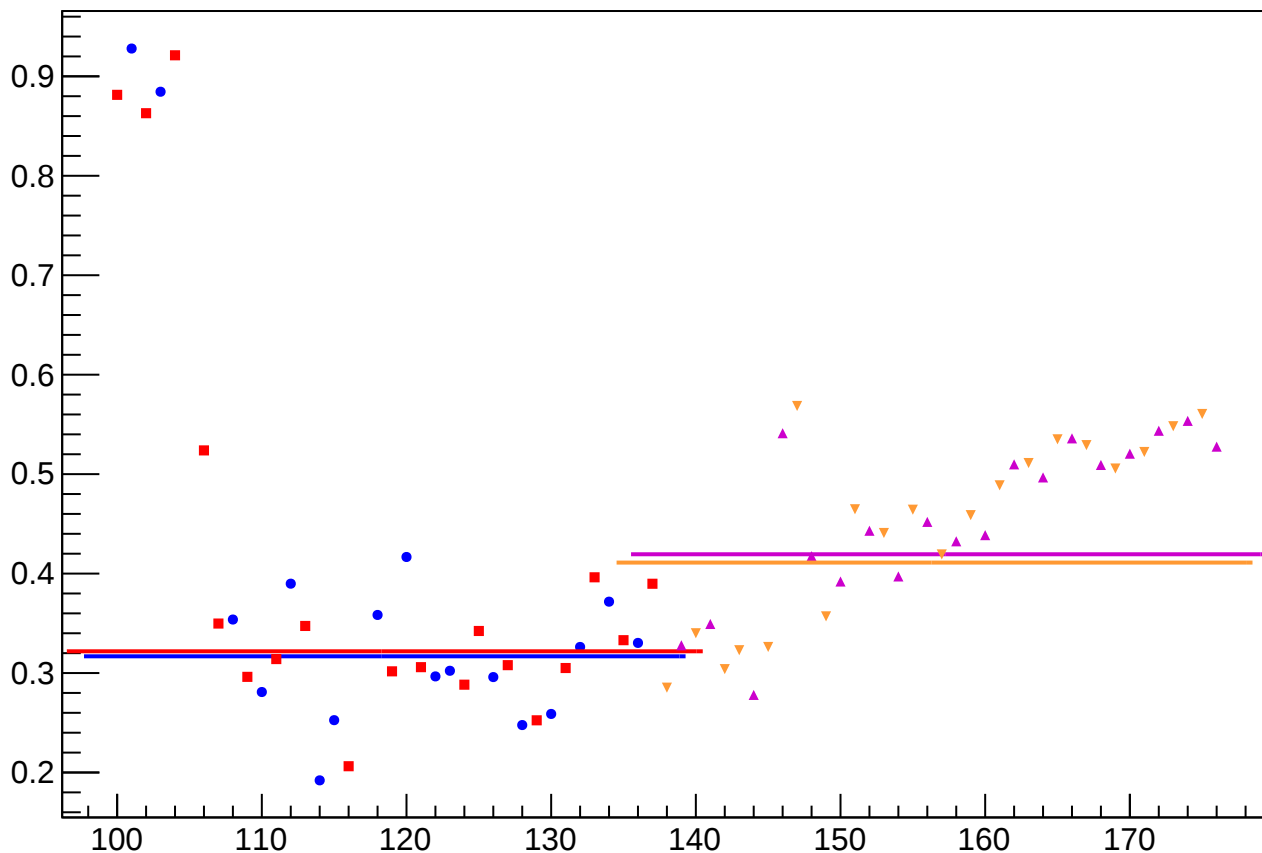
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 146.067 $\pm$ 0.000 χ^2 /NDF: 4366846288.0/35

Out: 146.661 $\pm$ 0.000 χ^2 /NDF: 4689751362.8/38

All: 146.370 $\pm$ 0.000 χ^2 /NDF: 9080552678.1

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.411 $\pm$ 0.000 χ^2 /NDF:1417552.1/19

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: 0.415 $\pm$ 0.000 χ^2 /NDF: 2584151.3/38

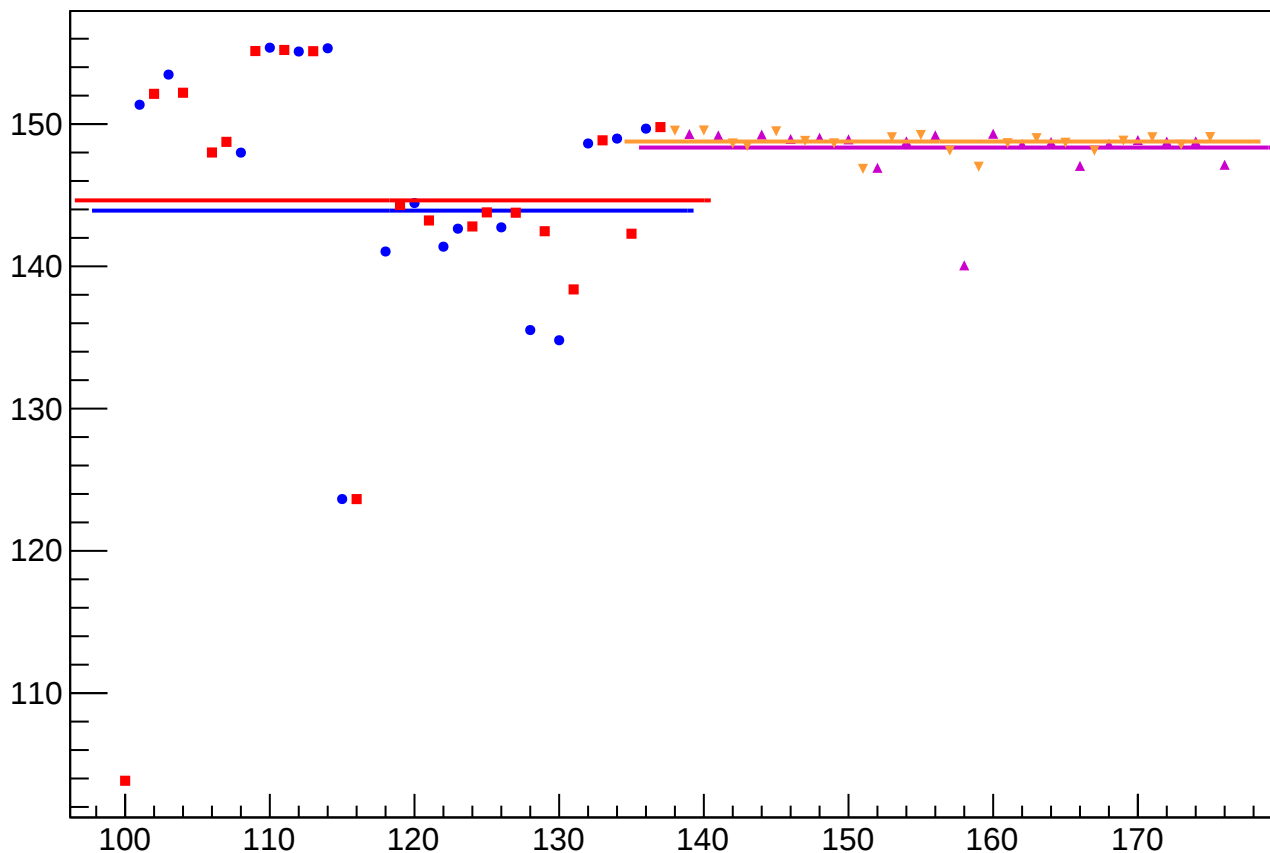
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.377 $\pm$ 0.000 χ^2 /NDF:3121434.1/35

Out: 0.375 $\pm$ 0.000 χ^2 /NDF:3167448.8/38

All: 0.376 $\pm$ 0.000 χ^2 /NDF: 6289387.7/74

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000 χ^2 /NDF: 3584662767.5/16

Left Out: 148.774 $\pm$ 0.000 χ^2 /NDF: 41596405.0/19

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: 148.568 $\pm$ 0.000 χ^2 /NDF: 367121763.8/38

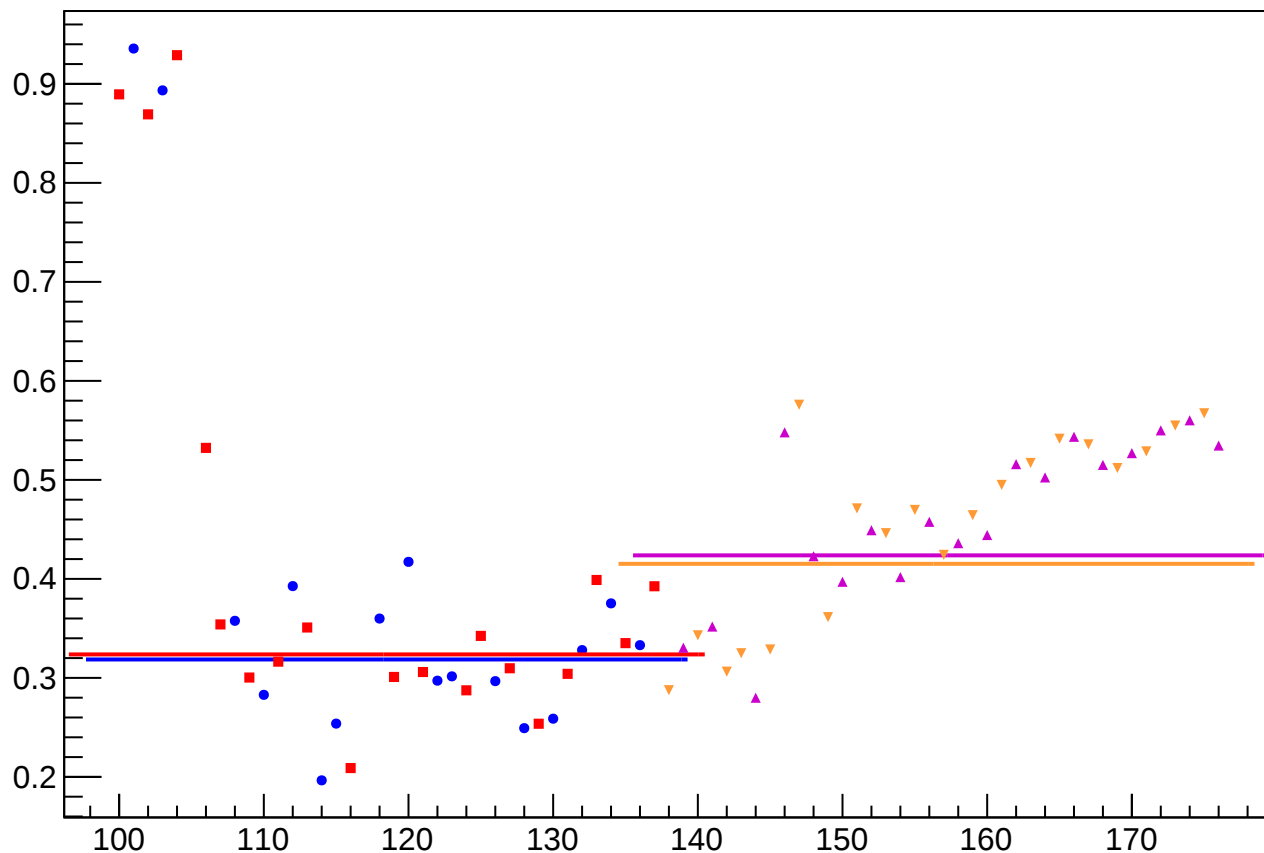
Right: 144.280 $\pm$ 0.000 χ^2 /NDF: 7809567994.8/35

In: 146.485 $\pm$ 0.000 χ^2 /NDF: 4529703247.2/35

Out: 147.072 $\pm$ 0.000 χ^2 /NDF: 4815653102.3/38

All: 146.784 $\pm$ 0.000 χ^2 /NDF: 9368376491.1

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2 /NDF: 1280748.9/16

Left Out: 0.415 $\pm$ 0.000 χ^2 /NDF:1442123.9/19

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1220898.3/18

Left In: 0.424 $\pm$ 0.000 χ^2 /NDF:1182663.5/18

Left: 0.419 $\pm$ 0.000 χ^2 /NDF: 2630492.1/38

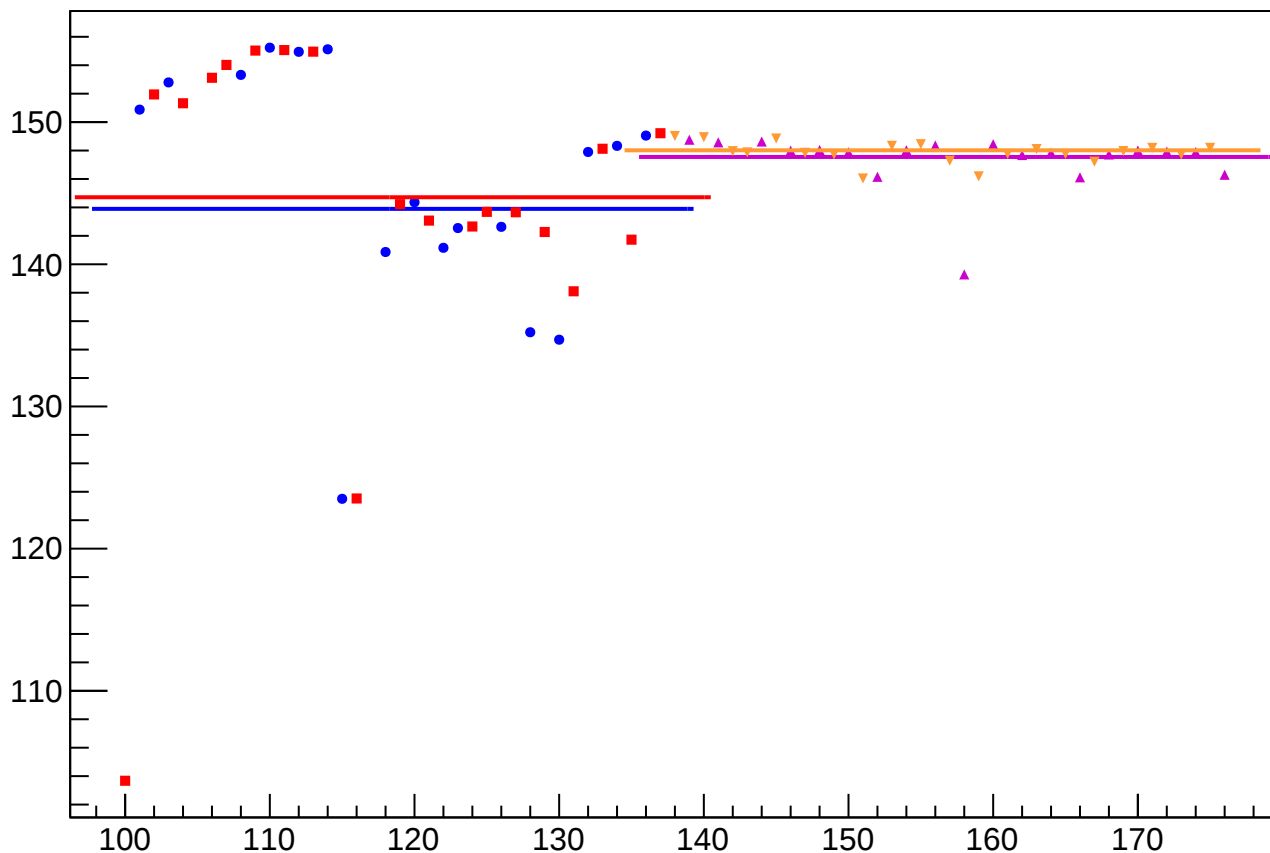
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2503090.8/35

In: 0.380 $\pm$ 0.000 χ^2 /NDF:3168468.3/35

Out: 0.378 $\pm$ 0.000 χ^2 /NDF:3214292.2/38

All: 0.379 $\pm$ 0.000 χ^2 /NDF: 6383266.8/74

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 148.016 $\pm$ 0.000 χ^2 /NDF: 51300128.9/19

Right Out: 144.715 $\pm$ 0.000 χ^2 /NDF: 4474458988.7/18

Left In: 147.548 $\pm$ 0.000 χ^2 /NDF: 328182080.3/18

Left: 147.788 $\pm$ 0.000 χ^2 /NDF: 388121527.4/38

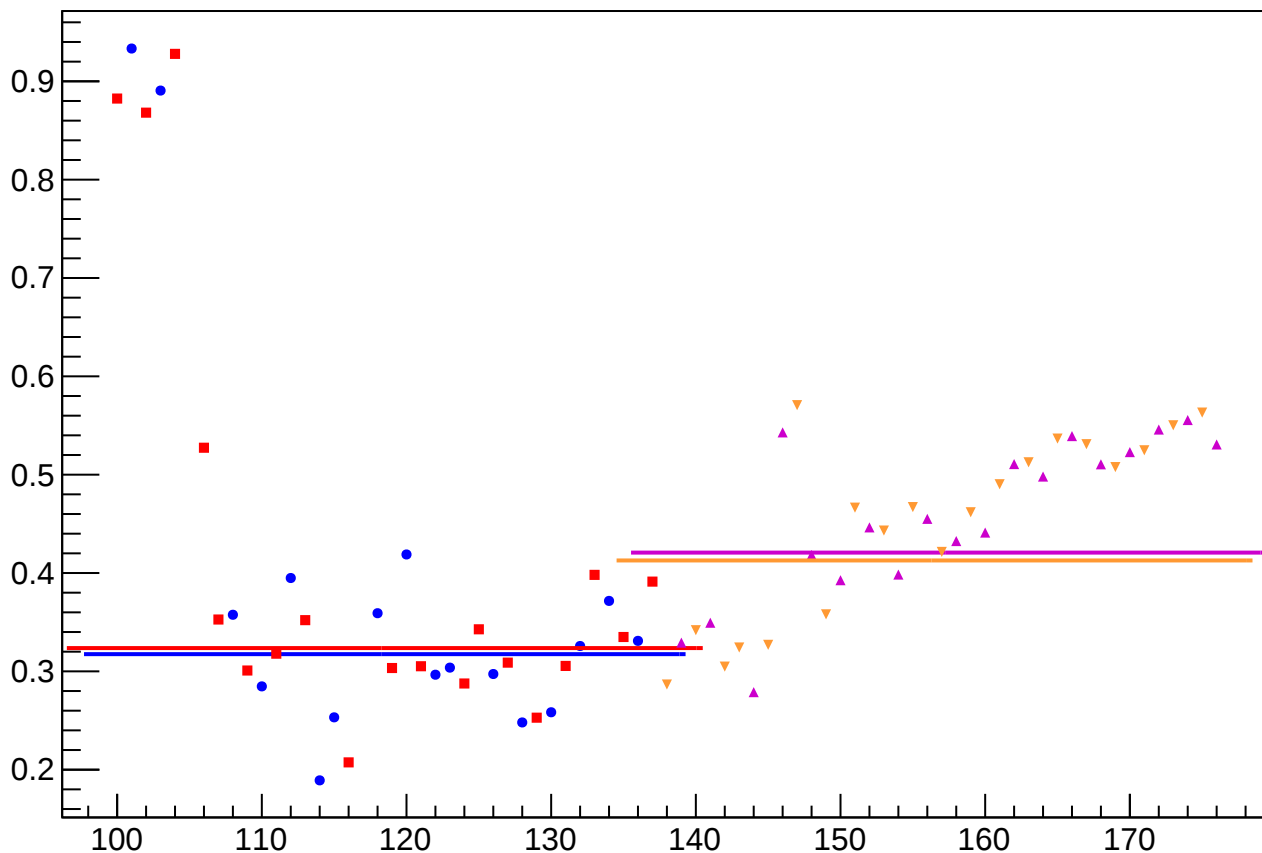
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 146.021 $\pm$ 0.000 χ^2 /NDF: 4506618594.2/35

Out: 146.668 $\pm$ 0.000 χ^2 /NDF: 4886467411.4/38

All: 146.350 $\pm$ 0.000 χ^2 /NDF: 9421234256.6

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.413 $\pm$ 0.000 χ^2/NDF : 1419050.5/19

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: 0.417 $\pm$ 0.000 χ^2/NDF : 2592400.2/38

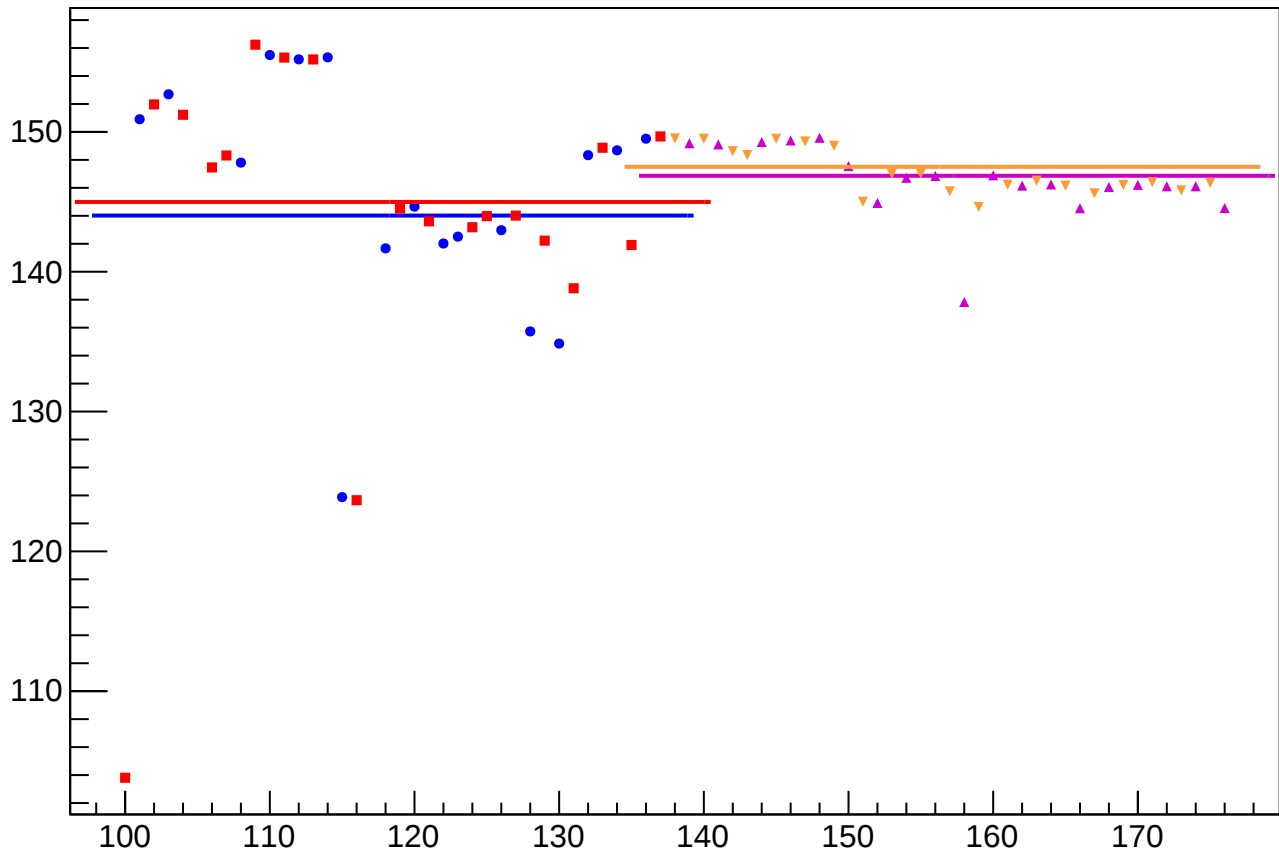
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2516974.9/35

In: 0.378 $\pm$ 0.000 χ^2/NDF : 3147756.2/35

Out: 0.376 $\pm$ 0.000 χ^2/NDF : 3166442.2/38

All: 0.377 $\pm$ 0.000 χ^2/NDF : 6314383.1/74

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.503 $\pm$ 0.000 χ^2 /NDF: 211004632.8/19

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: 147.191 $\pm$ 0.000 χ^2 /NDF: 747699756.1/38

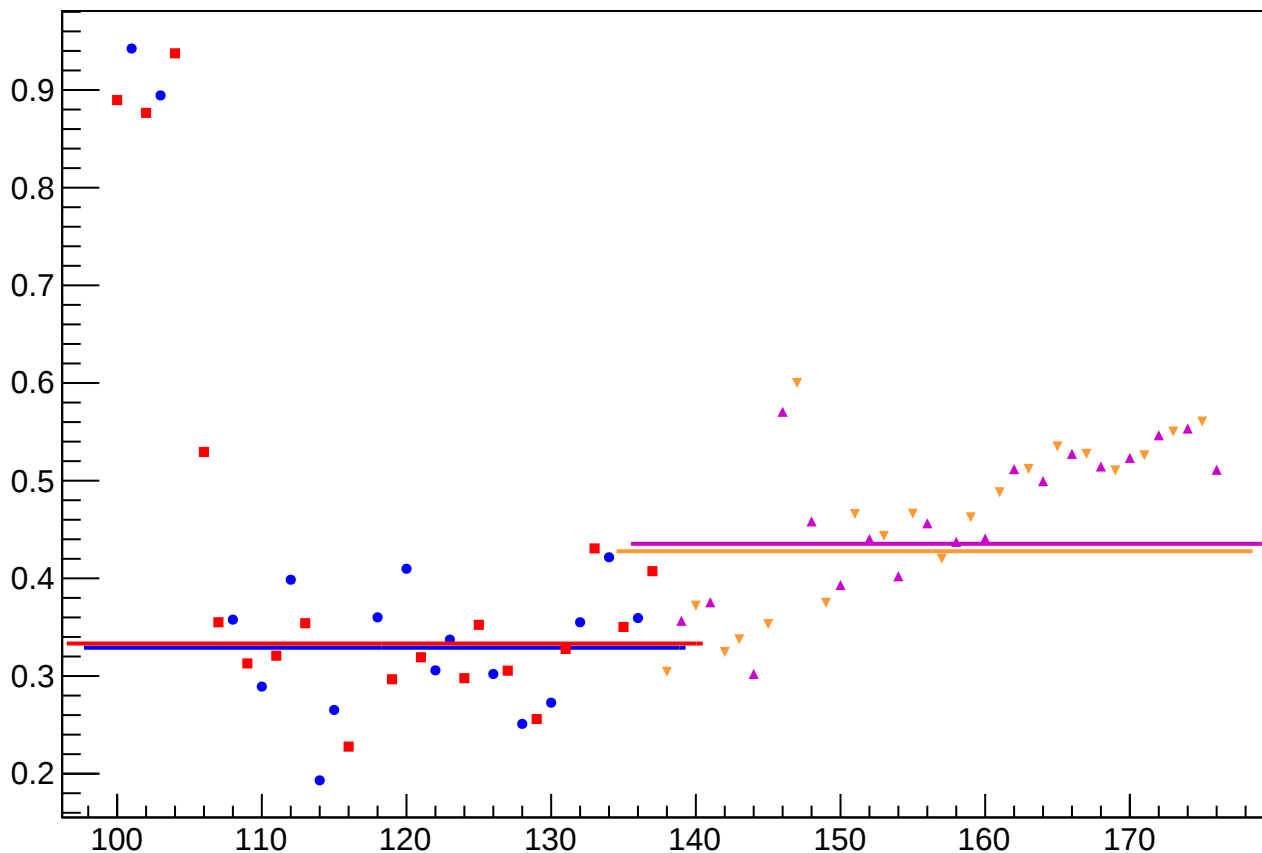
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.683 $\pm$ 0.000 χ^2 /NDF: 4003685743.8/35

Out: 146.474 $\pm$ 0.000 χ^2 /NDF: 4261055692.2/38

All: 146.086 $\pm$ 0.000 χ^2 /NDF: 8304240424.9

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.428+/-0.000 χ^2/NDF : 1107373.1/19

Right Out: 0.333+/-0.000 χ^2/NDF : 1182496.7/18

Left In: 0.435+/-0.000 χ^2/NDF : 872949.5/18

Left: 0.431+/-0.000 χ^2/NDF : 1984578.4/38

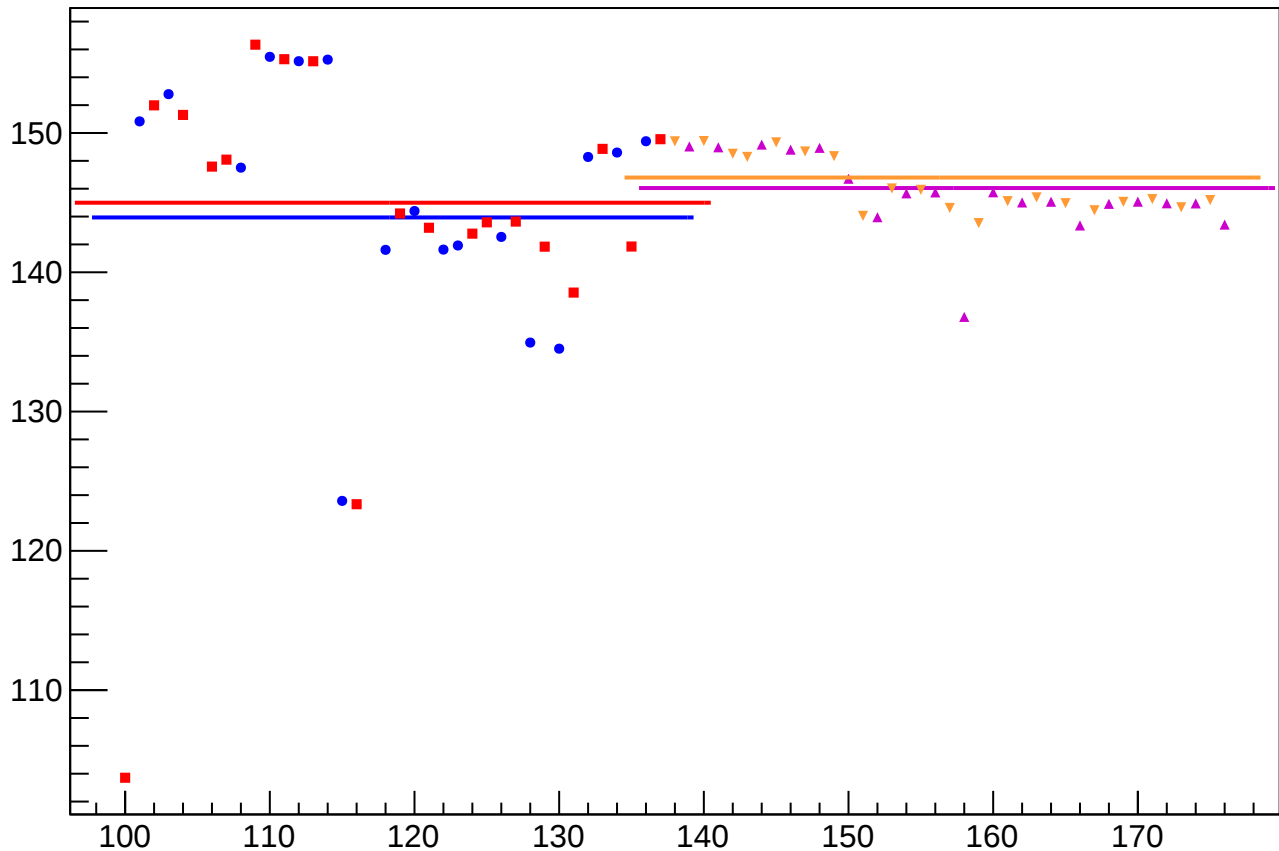
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.391+/-0.000 χ^2/NDF : 2829905.7/35

Out: 0.389+/-0.000 χ^2/NDF : 2846228.4/38

All: 0.390+/-0.000 χ^2/NDF : 5676708.8/74

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 ± 0.000 $\chi^2/\text{NDF}: 3379203532.9/16$

Left Out: 146.802 ± 0.000 $\chi^2/\text{NDF}: 329568633.9/19$

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: 146.435 ± 0.000 $\chi^2/\text{NDF}: 998329232.1/38$

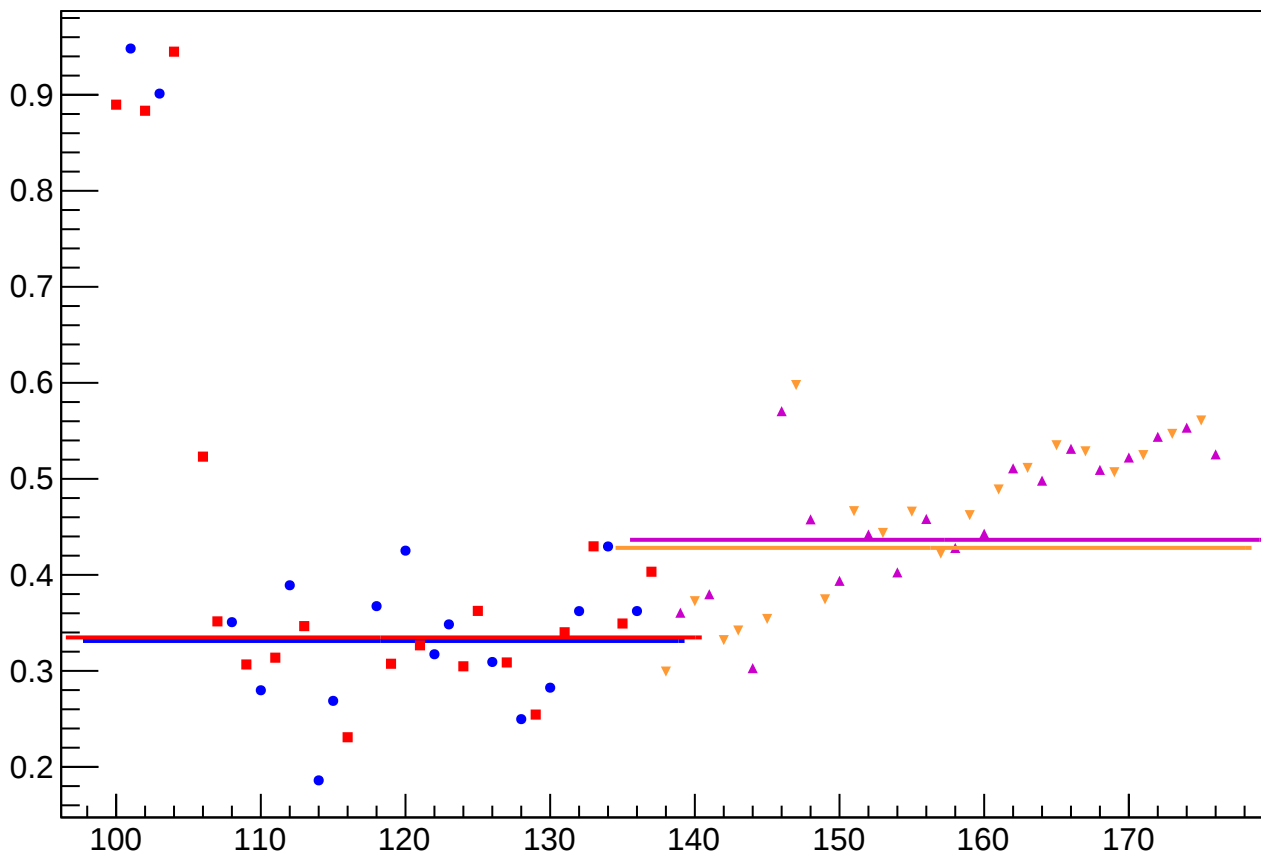
Right: 144.474 ± 0.000 $\chi^2/\text{NDF}: 7341982360.6/35$

In: 145.178 ± 0.000 $\chi^2/\text{NDF}: 4159374866.3/35$

Out: 146.066 ± 0.000 $\chi^2/\text{NDF}: 4364545736.3/38$

All: 145.632 ± 0.000 $\chi^2/\text{NDF}: 8573261854.3$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.428+/-0.000 χ^2/NDF :1096431.0/19

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: 0.432+/-0.000 χ^2/NDF : 1956280.6/38

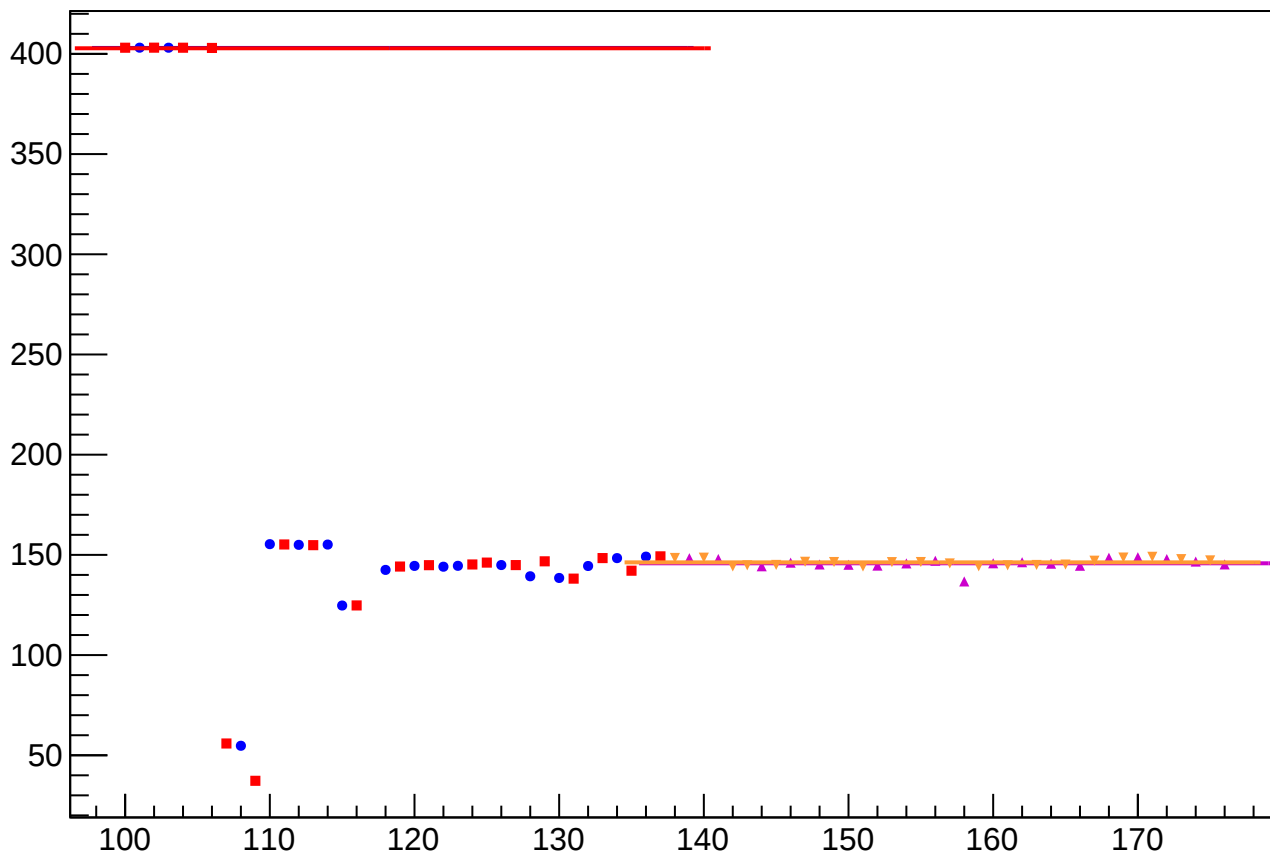
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.393+/-0.000 χ^2/NDF :2809587.4/35

Out: 0.390+/-0.000 χ^2/NDF :2806640.6/38

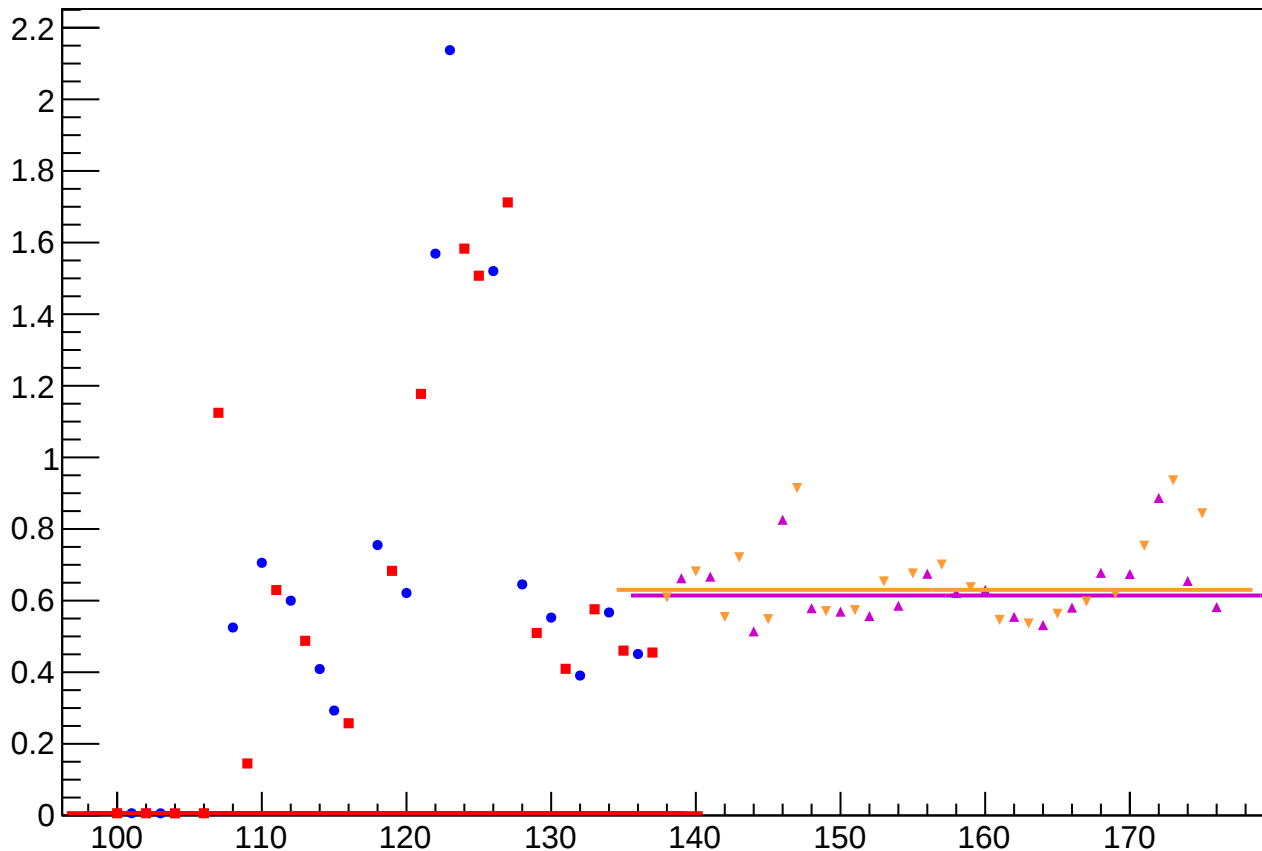
All: 0.392+/-0.000 χ^2/NDF : 5617343.1/74

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1096710296821.6/16	Left: 146.026+/-0.000	χ^2/NDF : 246949798.0/38
Left Out: 146.264+/-0.000	χ^2/NDF : 73655962.7/19	Right: 402.873+/-0.000	χ^2/NDF : 4201017642924.7/38
Right Out: 402.799+/-0.000	χ^2/NDF : 3103890772575.4/18	In: 402.713+/-0.000	χ^2/NDF : 3050051701570.8/38
Left In: 145.799+/-0.000	χ^2/NDF : 170174184.4/18	Out: 402.594+/-0.000	χ^2/NDF : 4957301156181.9/38
		All: 402.650+/-0.000	χ^2/NDF : 800759028801.6/178

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.630+/-0.000 χ^2/NDF : 548137.7/19

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: 0.622+/-0.000 χ^2/NDF : 905926.4/38

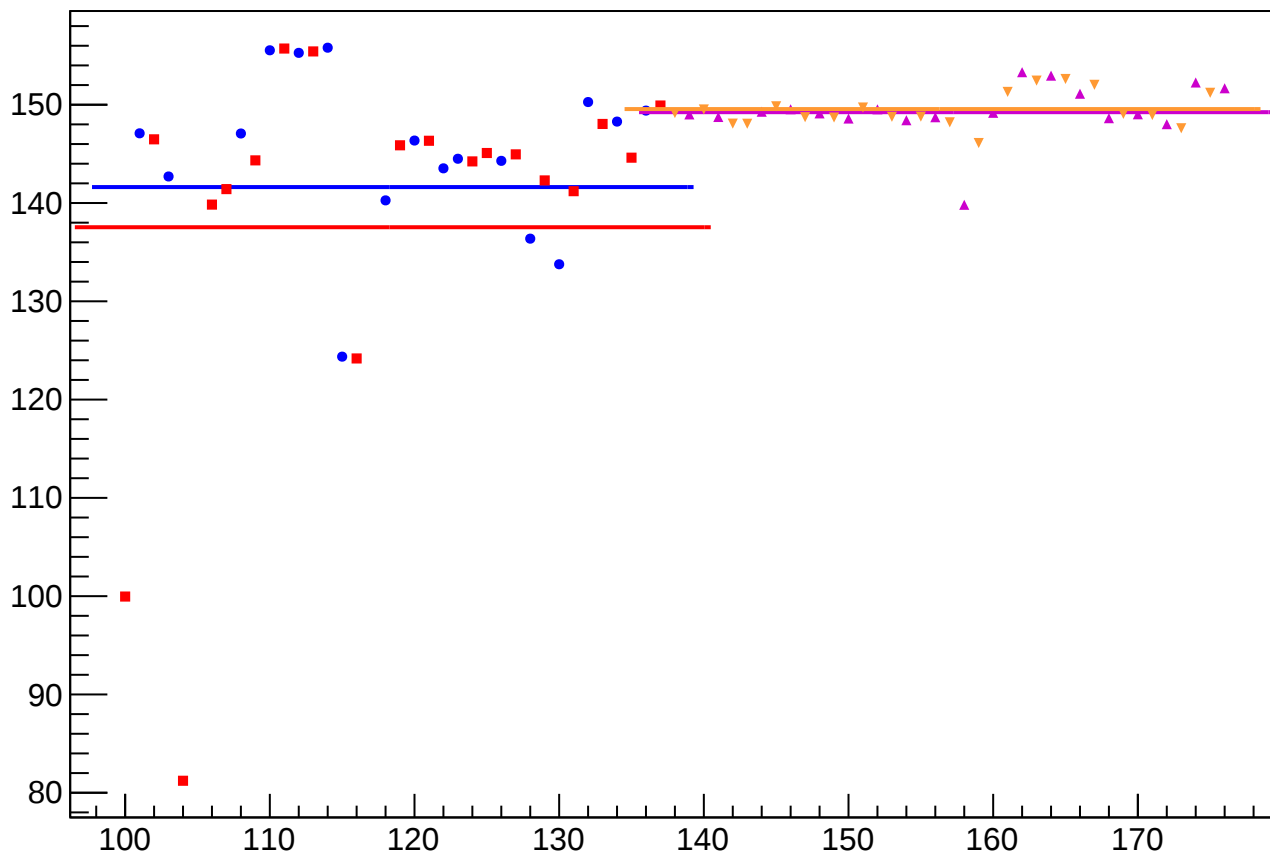
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 31341362.9/35

Out: 0.007+/-0.000 χ^2/NDF : 31672592.0/38

All: 0.007+/-0.000 χ^2/NDF : 63014220.5/74

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.558 $\pm$ 0.000 χ^2 /NDF: 126381907.7/19

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: 149.399 $\pm$ 0.000 χ^2 /NDF: 530260447.6/38

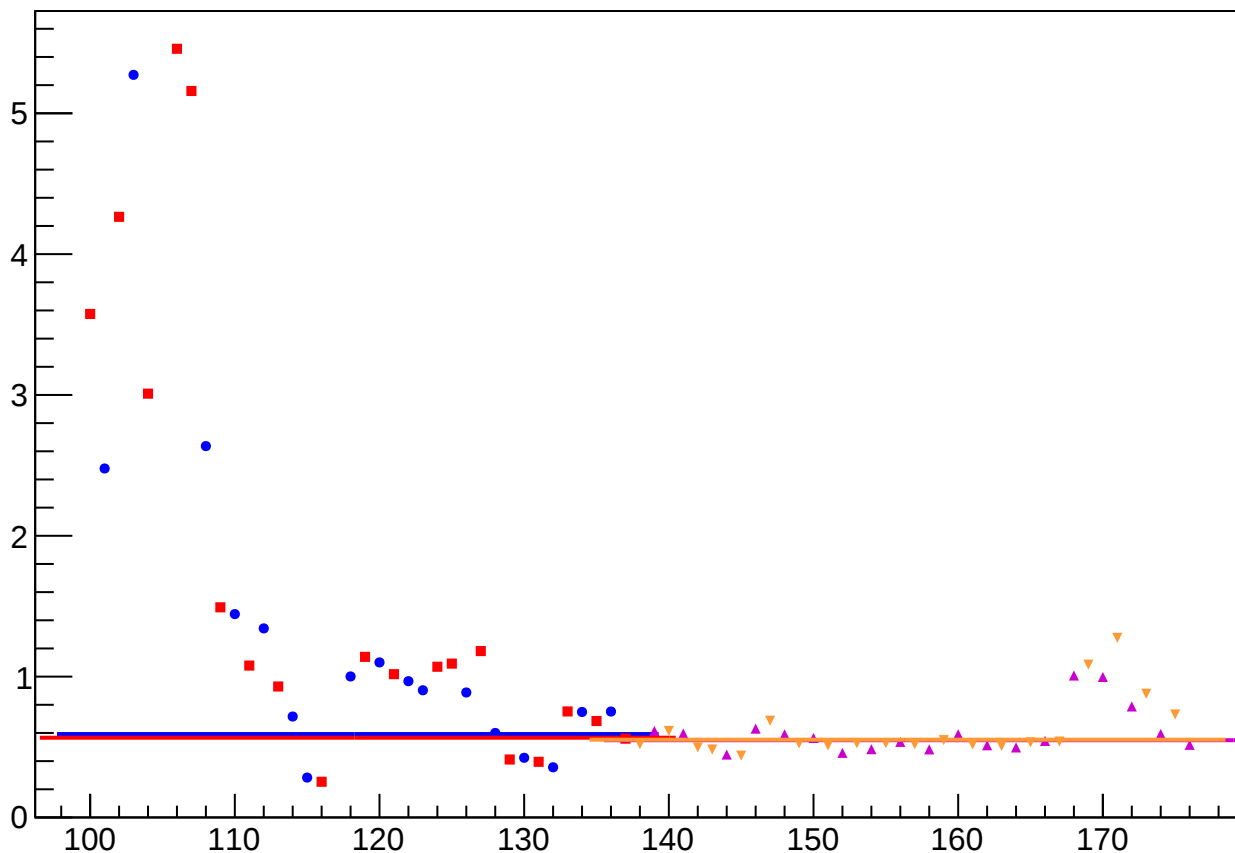
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.761 $\pm$ 0.000 χ^2 /NDF: 1857206589.5/35

Out: 147.118 $\pm$ 0.000 χ^2 /NDF: 2665557570.3/38

All: 147.439 $\pm$ 0.000 χ^2 /NDF: 4533574662.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.552 $\pm$ 0.000 χ^2 /NDF:1310721.7/19

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: 0.550 $\pm$ 0.000 χ^2 /NDF: 2278767.7/38

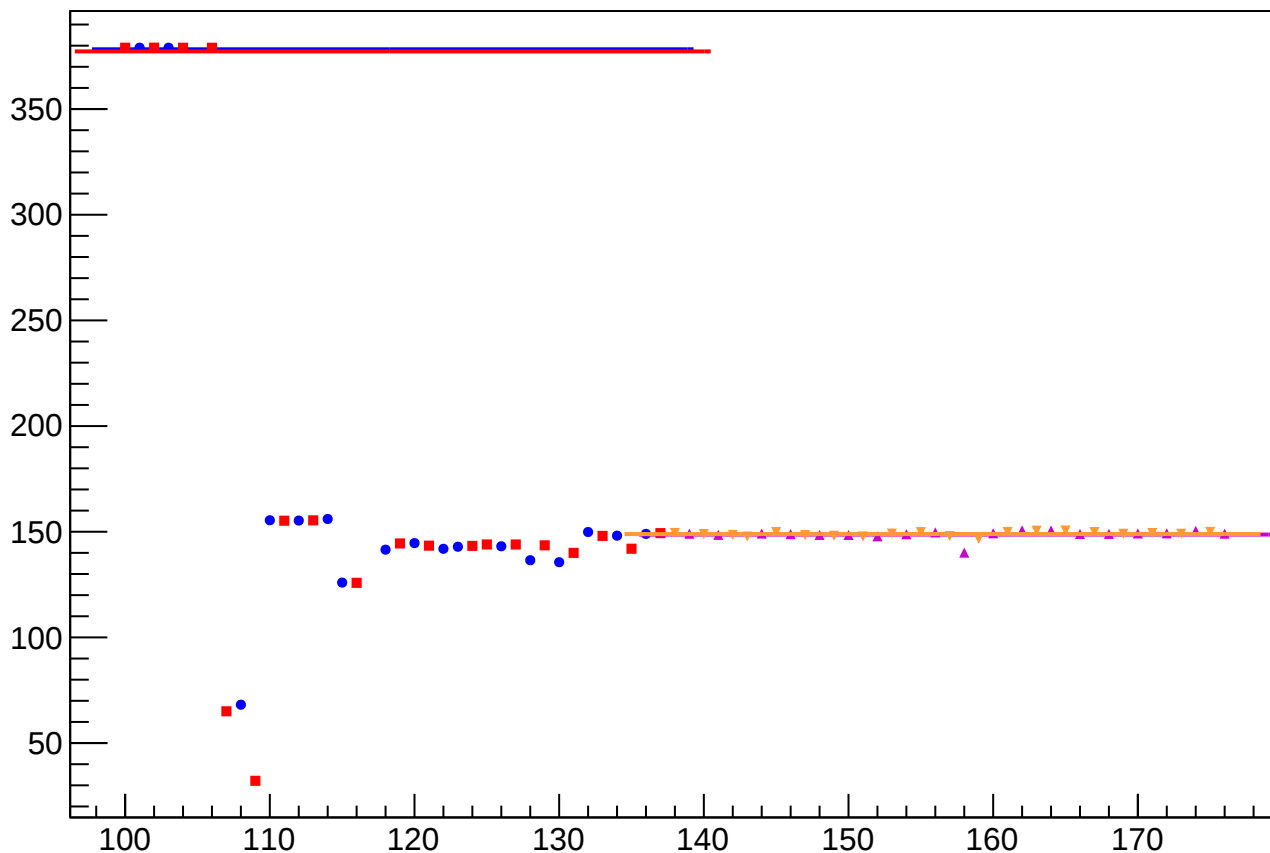
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.557 $\pm$ 0.000 χ^2 /NDF:4520262.4/35

Out: 0.555 $\pm$ 0.000 χ^2 /NDF:5996180.6/38

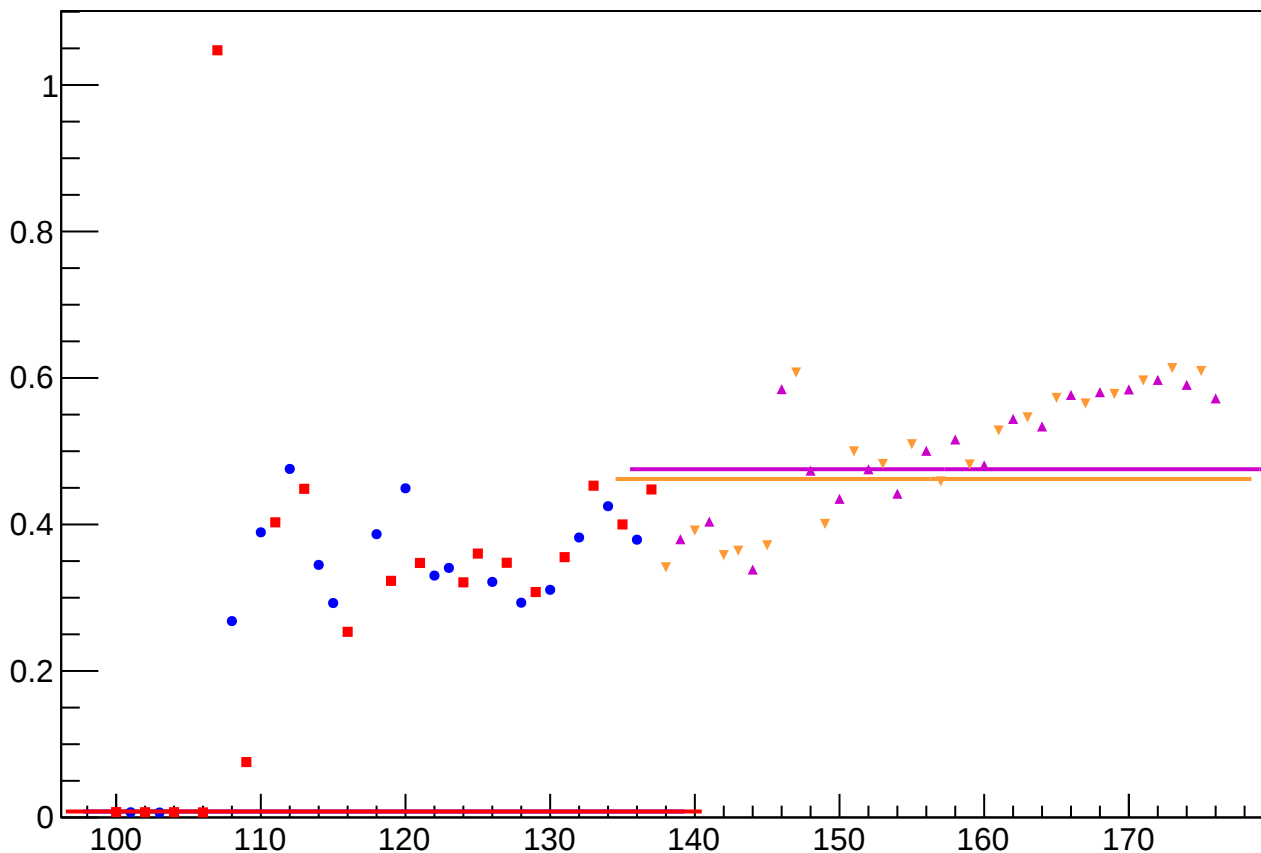
All: 0.556 $\pm$ 0.000 χ^2 /NDF: 10516652.9/74

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.787+/-0.000	χ^2/NDF : 307265695.3/38
Left Out: 148.903+/-0.000	χ^2/NDF : 62991493.4/19	Right: 377.753+/-0.000	χ^2/NDF : 10798714881373.1
Right Out: 377.289+/-0.000	χ^2/NDF : 8279468194444.1/18	In: 377.231+/-0.000	χ^2/NDF : 5723891684835.2/38
Left In: 148.663+/-0.000	χ^2/NDF : 242456048.6/18	Out: 376.306+/-0.000	χ^2/NDF : 11688278145128.4
		All: 376.738+/-0.000	χ^2/NDF : 174182675829.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.462 $\pm$ 0.000 χ^2 /NDF: 1105193.7/19

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.475 $\pm$ 0.000 χ^2 /NDF: 835317.1/18

Left: 0.469 $\pm$ 0.000 χ^2 /NDF: 1951782.4/38

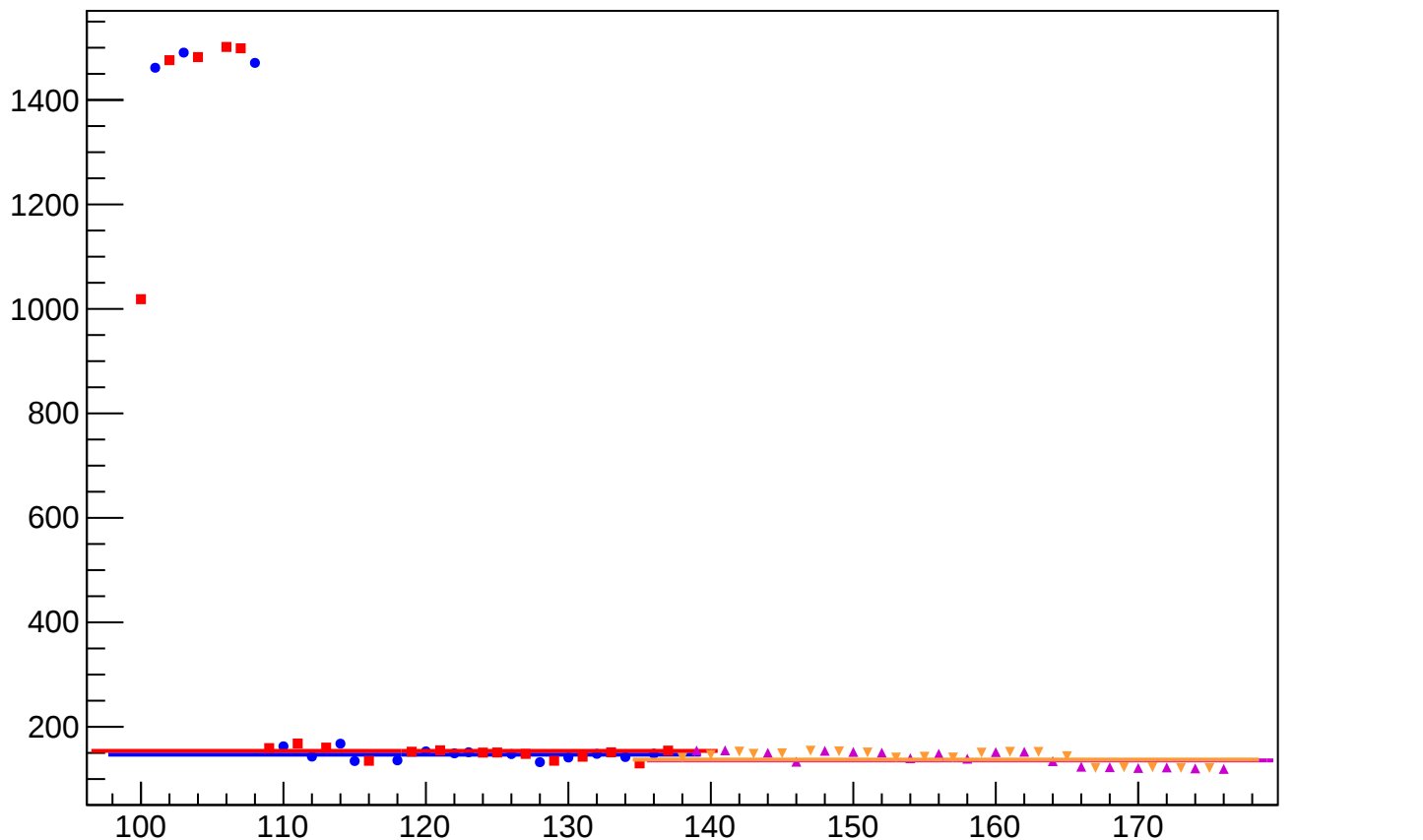
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 37322715.0/35

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 37573808.3/38

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 74896906.2/74

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 137.224+/-0.000 χ^2/NDF : 3270427209.9/19

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: 136.449+/-0.000 χ^2/NDF : 6863621224.6/38

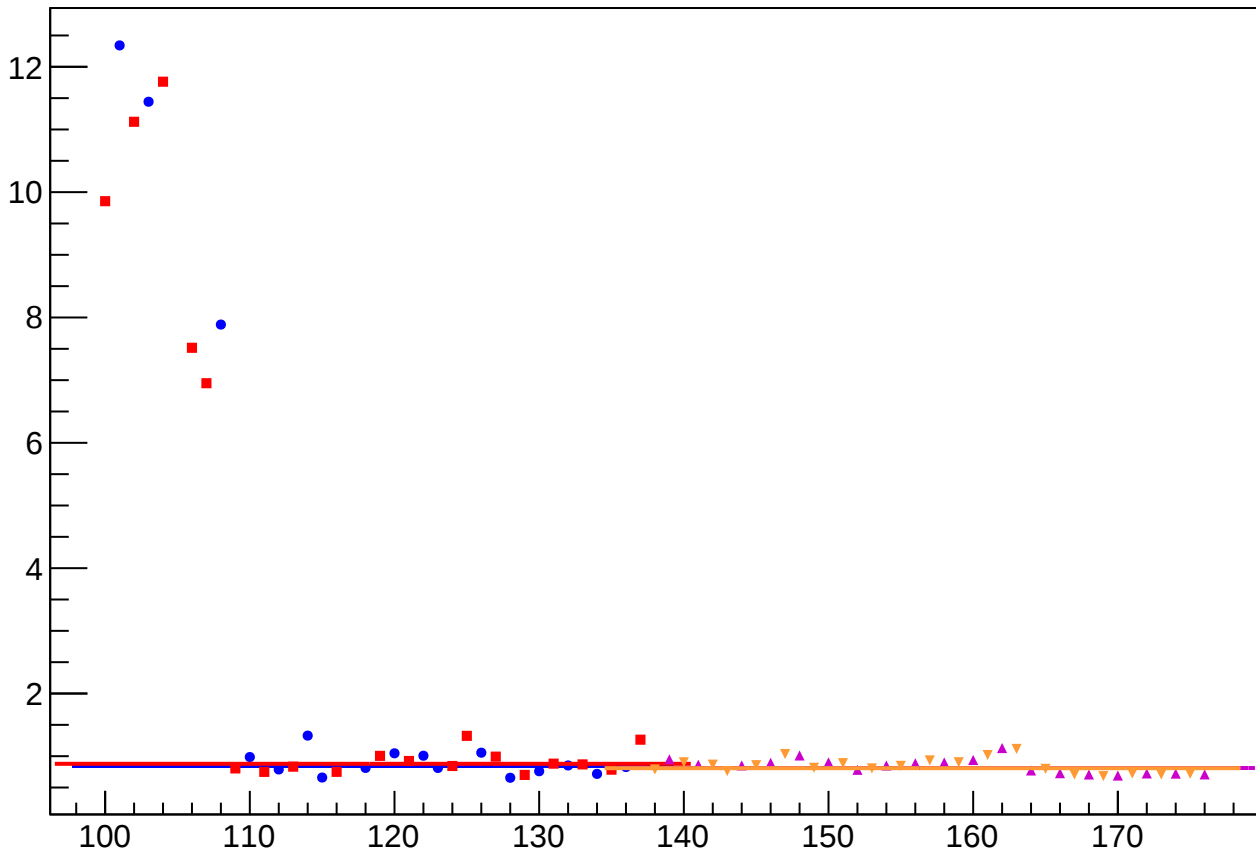
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 138.125+/-0.000 χ^2/NDF : 28430335685.2/35

Out: 140.854+/-0.000 χ^2/NDF : 38157697167.9/38

All: 139.496+/-0.000 χ^2/NDF : 66678007954.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844 ± 0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.809 ± 0.000 χ^2/NDF : 448006.2/19

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: 0.810 ± 0.000 χ^2/NDF : 882191.3/38

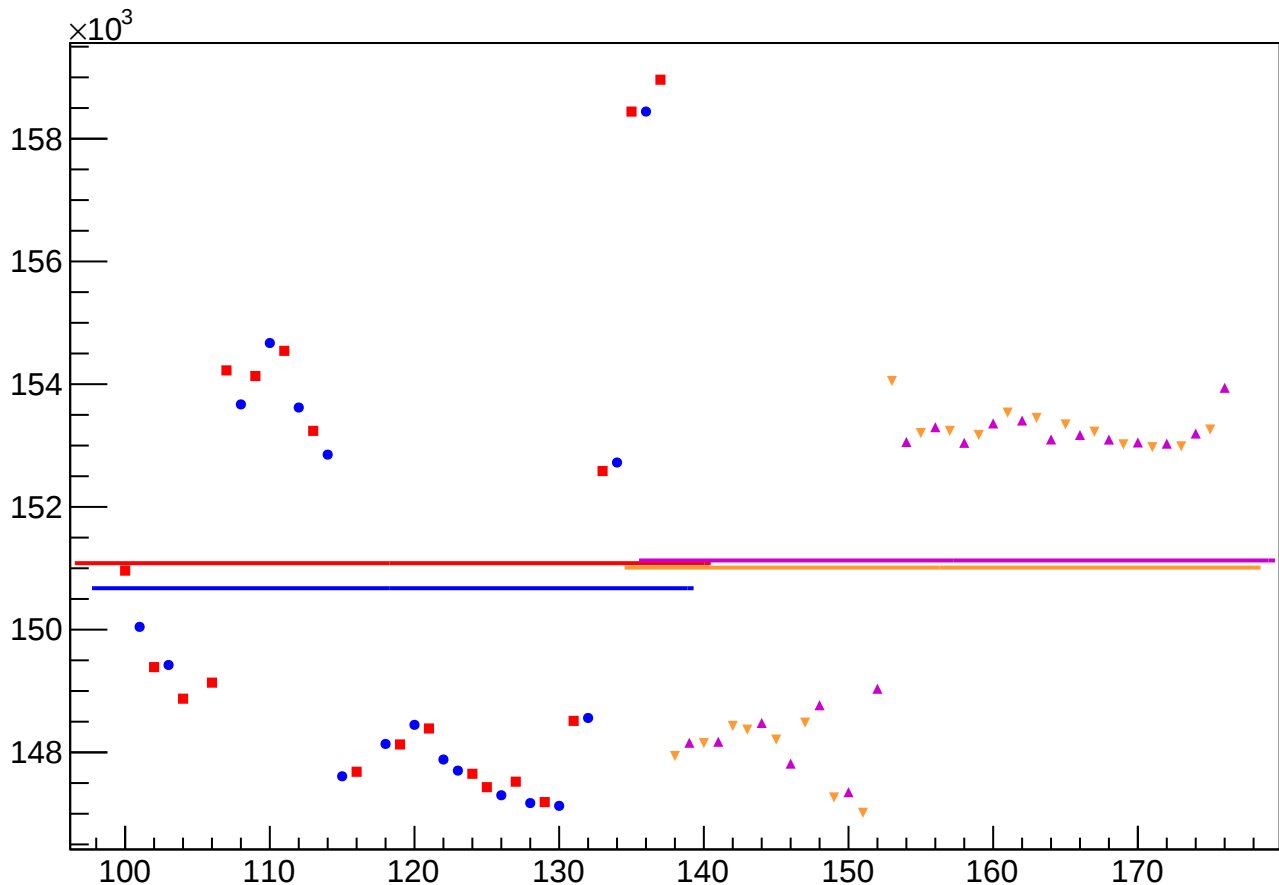
Right: 0.861 ± 0.000 χ^2/NDF : 5489376.5/35

In: 0.818 ± 0.000 χ^2/NDF : 3113250.4/35

Out: 0.824 ± 0.000 χ^2/NDF : 3300789.5/38

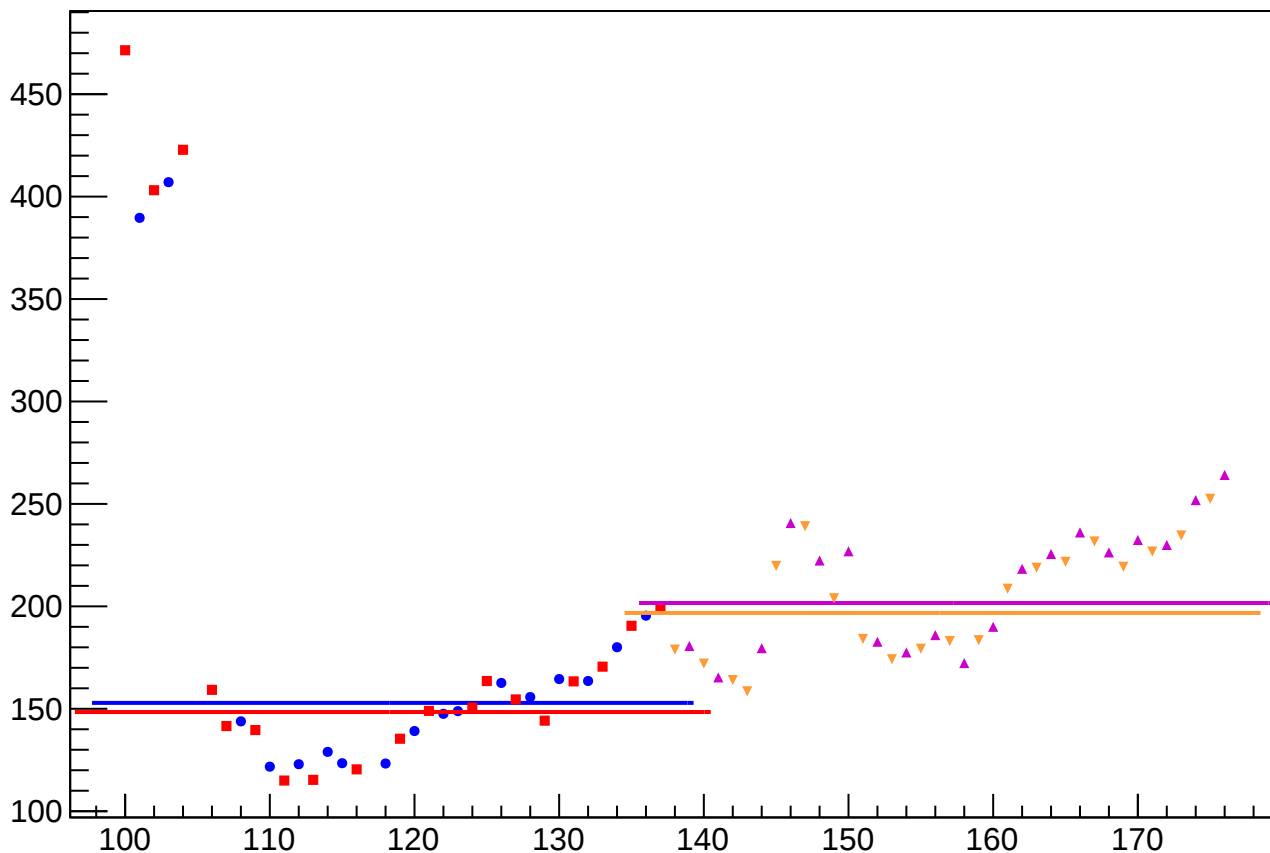
All: 0.821 ± 0.000 χ^2/NDF : 6414718.3/74

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063 χ^2/NDF : 3309974859.4/16
 Left Out: 151011.181 $\pm$ 0.051 χ^2/NDF : 2734986250.9/19
 Right Out: 151083.268 $\pm$ 0.060 χ^2/NDF : 3300830370.5/18
 Left In: 151127.316 $\pm$ 0.053 χ^2/NDF : 2096478792.7/18
 All: 150992.157 $\pm$ 0.028 χ^2/NDF : 114764937.1/100

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2 /NDF: 1154088.7/16

Left Out: 196.784 $\pm$ 0.036 χ^2 /NDF: 522457.1/19

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: 199.118 $\pm$ 0.026 χ^2 /NDF: 1098761.3/38

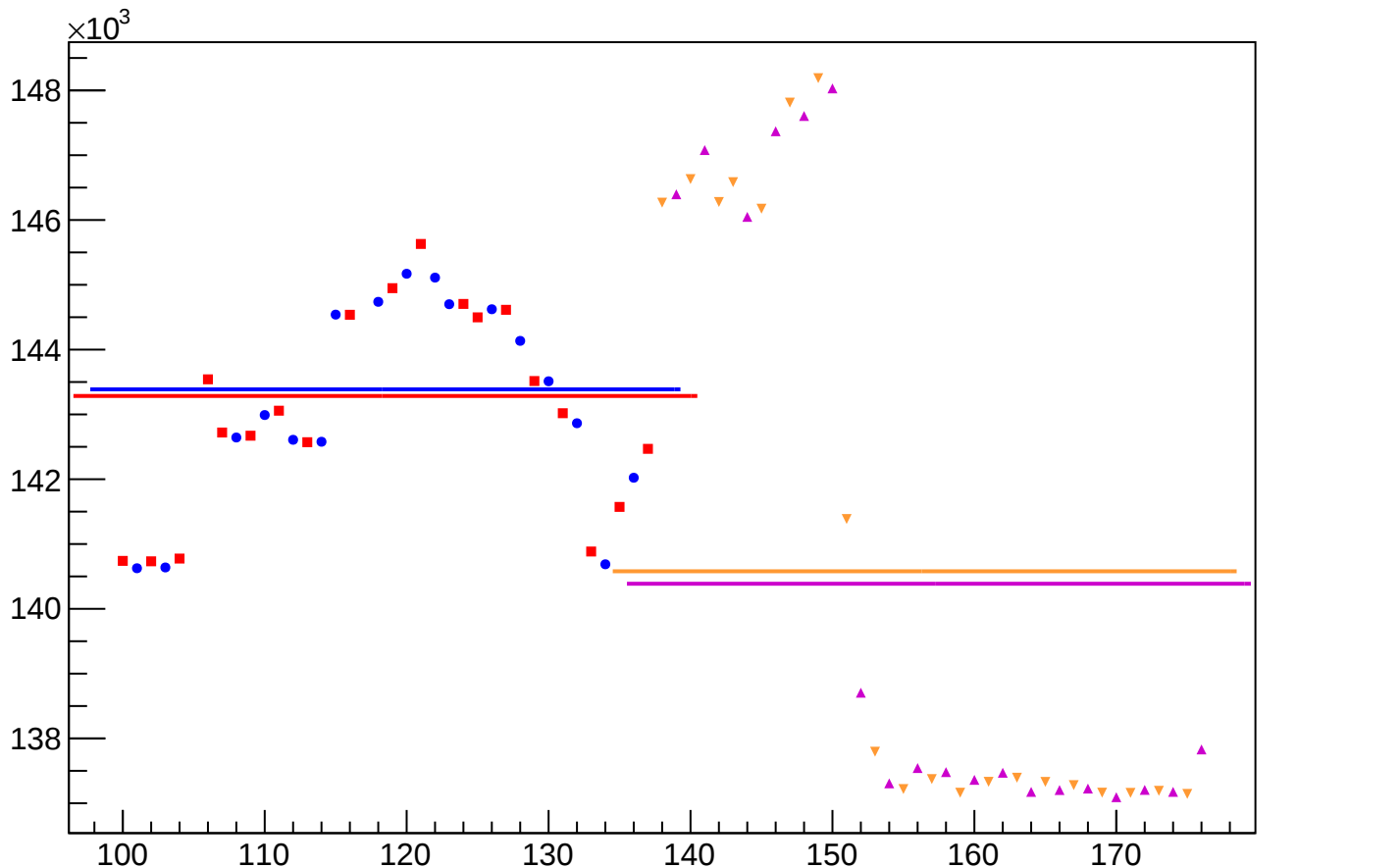
Right: 150.532 $\pm$ 0.031 χ^2 /NDF: 2350963.4/35

In: 181.203 $\pm$ 0.029 χ^2 /NDF: 2418425.0/35

Out: 176.150 $\pm$ 0.028 χ^2 /NDF: 2466906.8/38

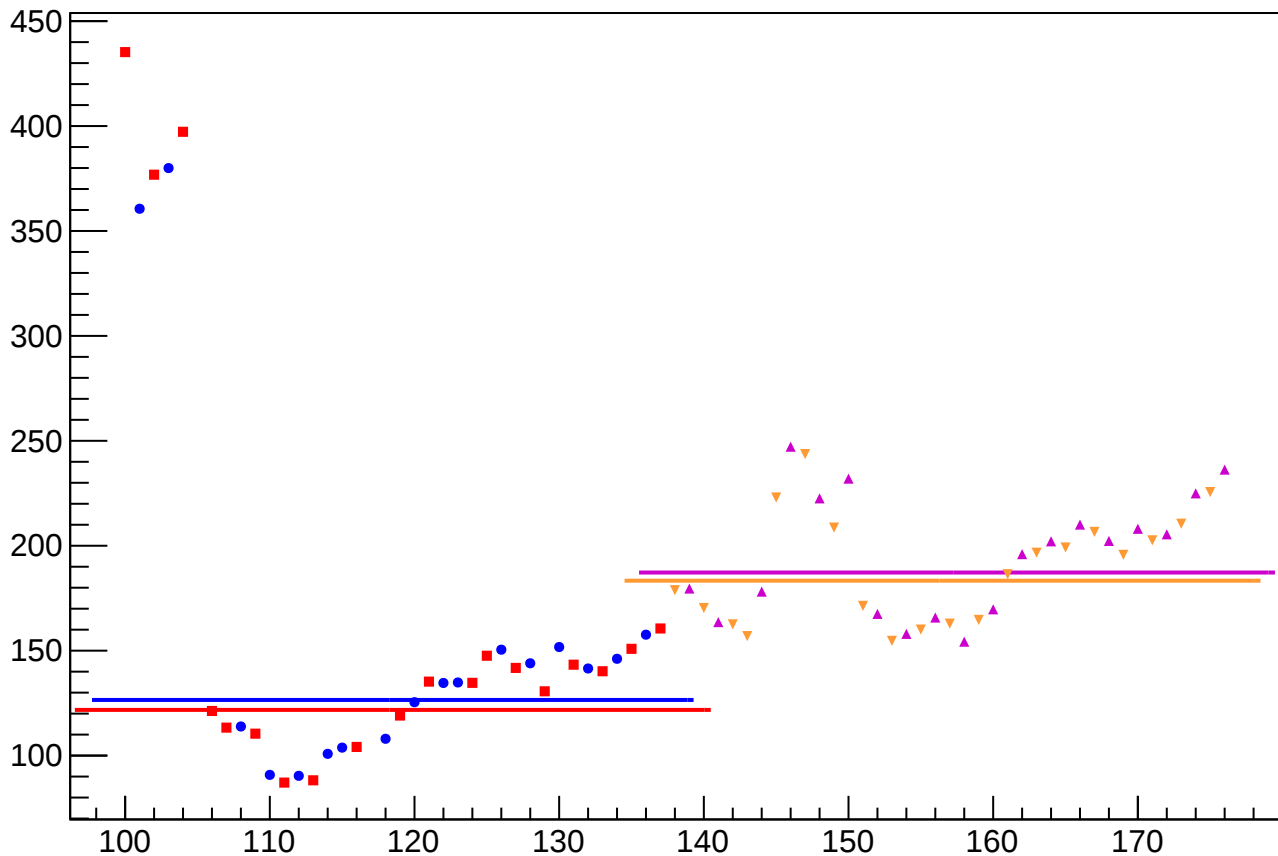
All: 178.564 $\pm$ 0.020 χ^2 /NDF: 4901379.3/74

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 140486.623 $\pm$ 0.035	χ^2 /NDF: 16098256661.1
Left Out: 140579.395 $\pm$ 0.048	χ^2 /NDF: 8282326079.0/19	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: 141901.177 $\pm$ 0.034	χ^2 /NDF: 10443542135.8
		All: 141852.879 $\pm$ 0.025	χ^2 /NDF: 204908873

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2/NDF : 1441685.0/16

Left Out: 183.341 $\pm$ 0.034 χ^2/NDF : 504145.3/19

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: 185.221 $\pm$ 0.024 χ^2/NDF : 1106980.3/38

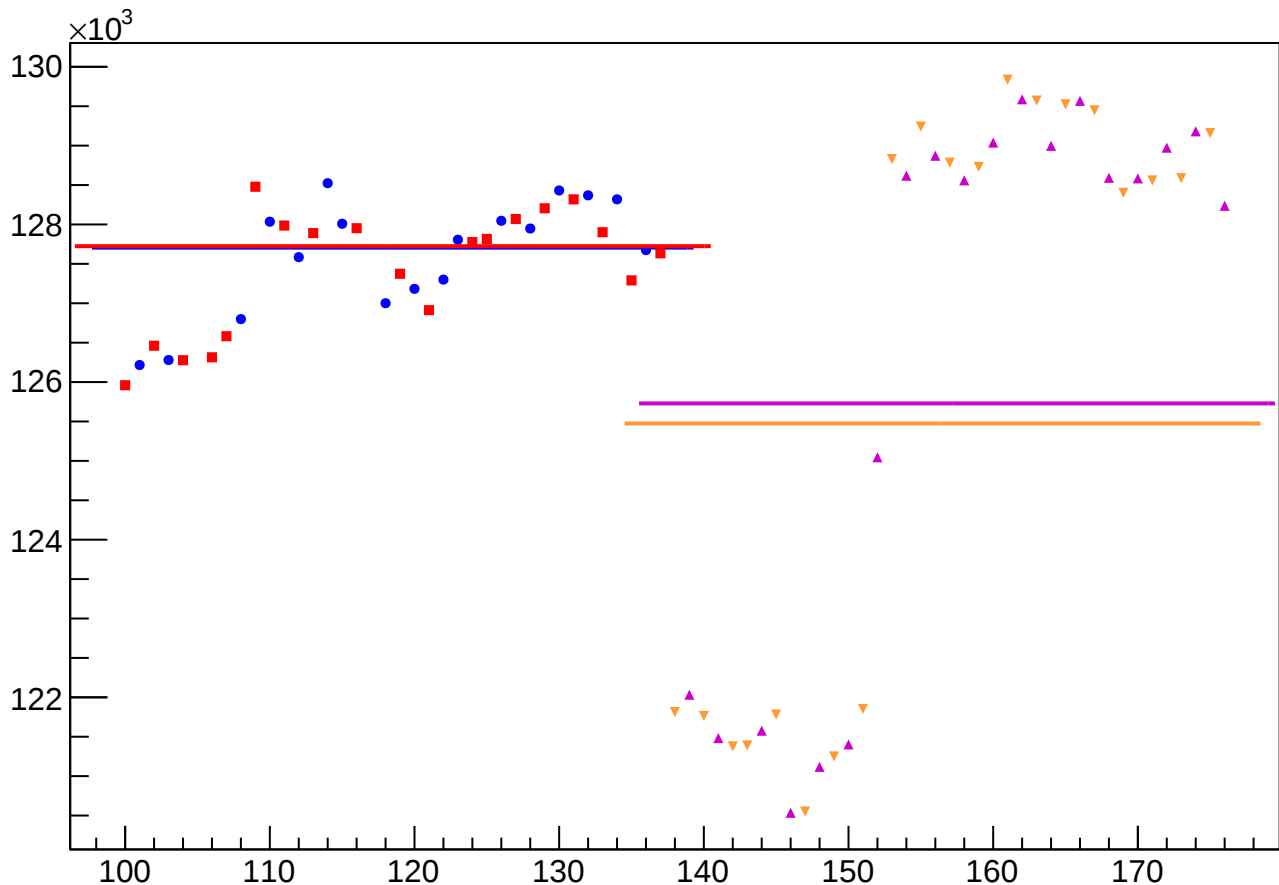
Right: 123.975 $\pm$ 0.025 χ^2/NDF : 2914178.1/35

In: 158.655 $\pm$ 0.026 χ^2/NDF : 3442389.1/35

Out: 153.260 $\pm$ 0.024 χ^2/NDF : 3576251.0/38

All: 155.816 $\pm$ 0.018 χ^2/NDF : 7042049.7/74

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left Out: 125474.929 $\pm$ 0.048

χ^2 /NDF: 6248249618.6/19

Right Out: 127724.256 $\pm$ 0.055

χ^2 /NDF: 112614317.2/18

Left In: 125729.307 $\pm$ 0.047

χ^2 /NDF: 5577717983.9/18

Left: 125602.798 $\pm$ 0.034

χ^2 /NDF: 11840356159.9

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

In: 126517.802 $\pm$ 0.037

χ^2 /NDF: 6372523144.2/35

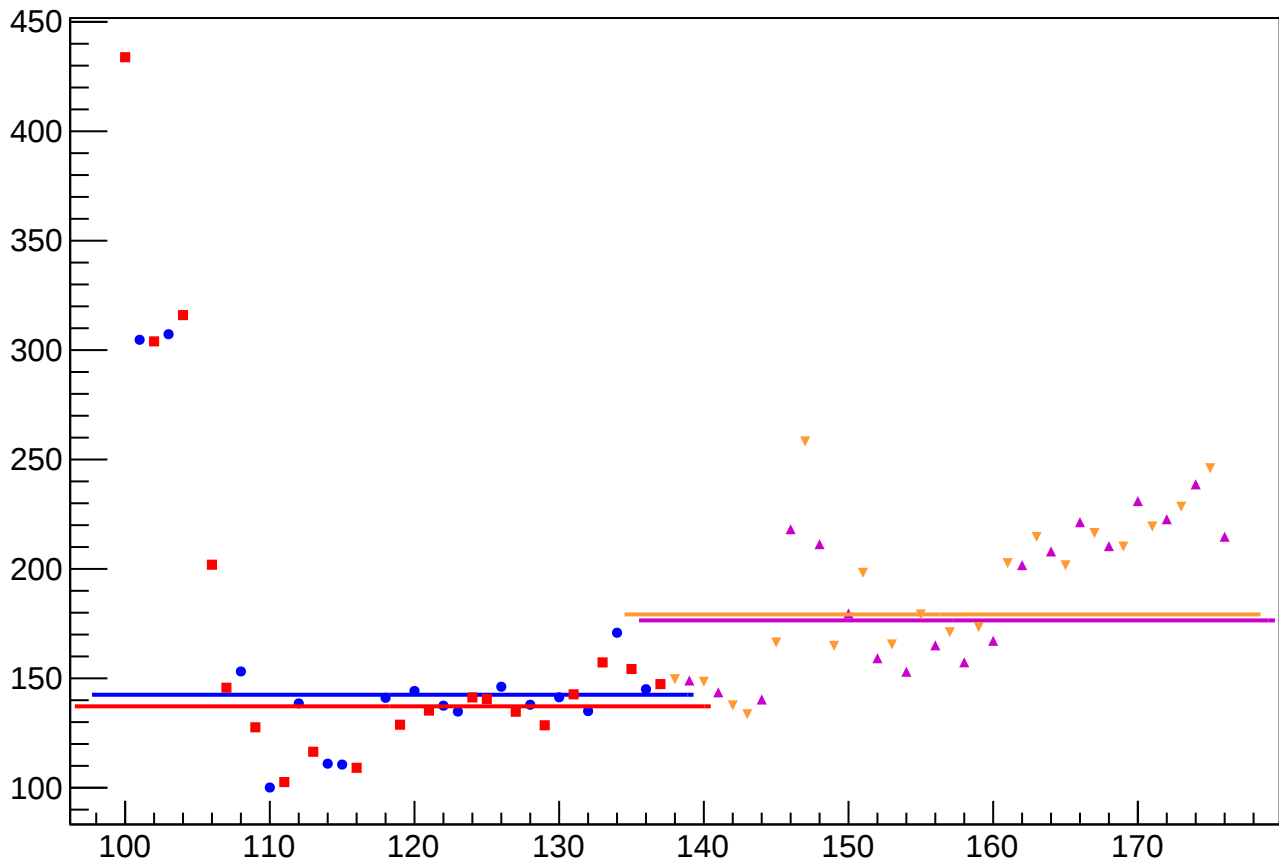
Out: 126446.472 $\pm$ 0.036

χ^2 /NDF: 7327554501.0/3

All: 126481.319 $\pm$ 0.026

χ^2 /NDF: 137020132

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 179.213 $\pm$ 0.034 χ^2 /NDF:938412.6/19

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 176.470 $\pm$ 0.033 χ^2 /NDF:869087.7/18

Left: 177.834 $\pm$ 0.024 χ^2 /NDF: 1810844.5/38

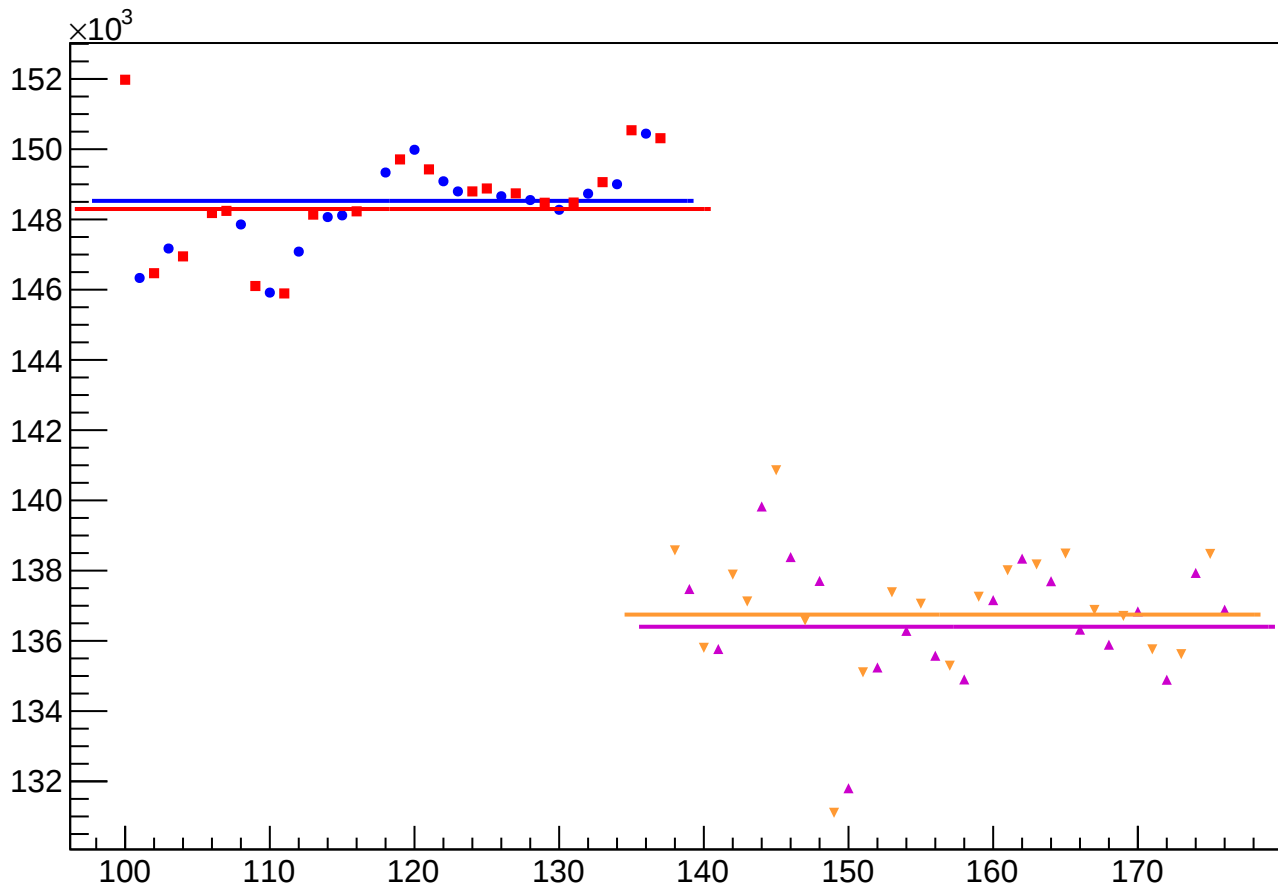
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 162.922 $\pm$ 0.026 χ^2 /NDF:2116903.2/35

Out: 161.071 $\pm$ 0.025 χ^2 /NDF:2569843.1/38

All: 161.975 $\pm$ 0.018 χ^2 /NDF: 4689351.6/74

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136748.281 $\pm$ 0.070 χ^2 /NDF: 866017548.2/19

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: 136575.380 $\pm$ 0.049 χ^2 /NDF: 1551660335.5/3

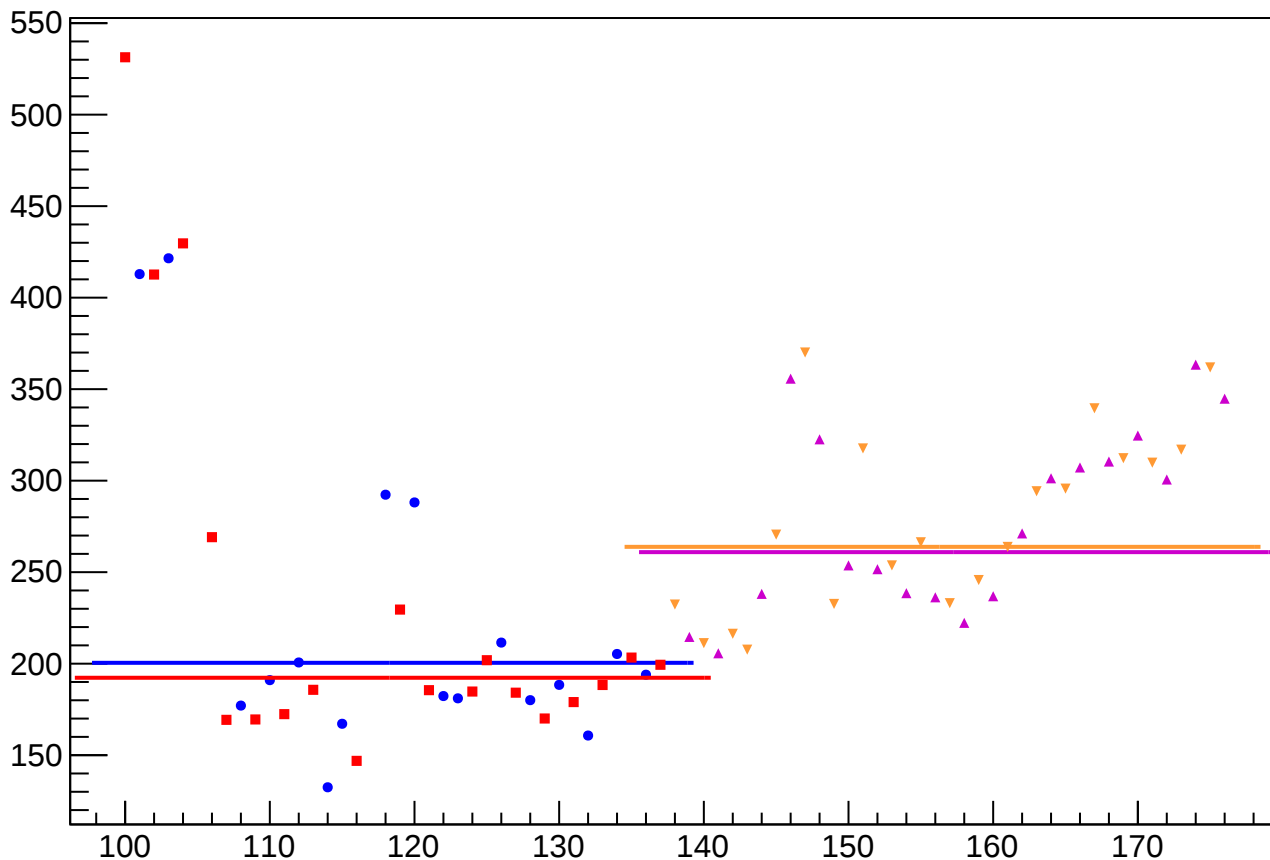
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141482.676 $\pm$ 0.053 χ^2 /NDF: 13569125363.5/3

Out: 141987.078 $\pm$ 0.051 χ^2 /NDF: 13640569768.5/3

All: 141742.870 $\pm$ 0.037 χ^2 /NDF: 272562036

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 263.843 $\pm$ 0.049 χ^2 /NDF: 837637.7/19

Right Out: 192.304 $\pm$ 0.054 χ^2 /NDF: 844504.1/18

Left In: 260.947 $\pm$ 0.049 χ^2 /NDF: 844609.1/18

Left: 262.397 $\pm$ 0.035 χ^2 /NDF: 1683975.7/38

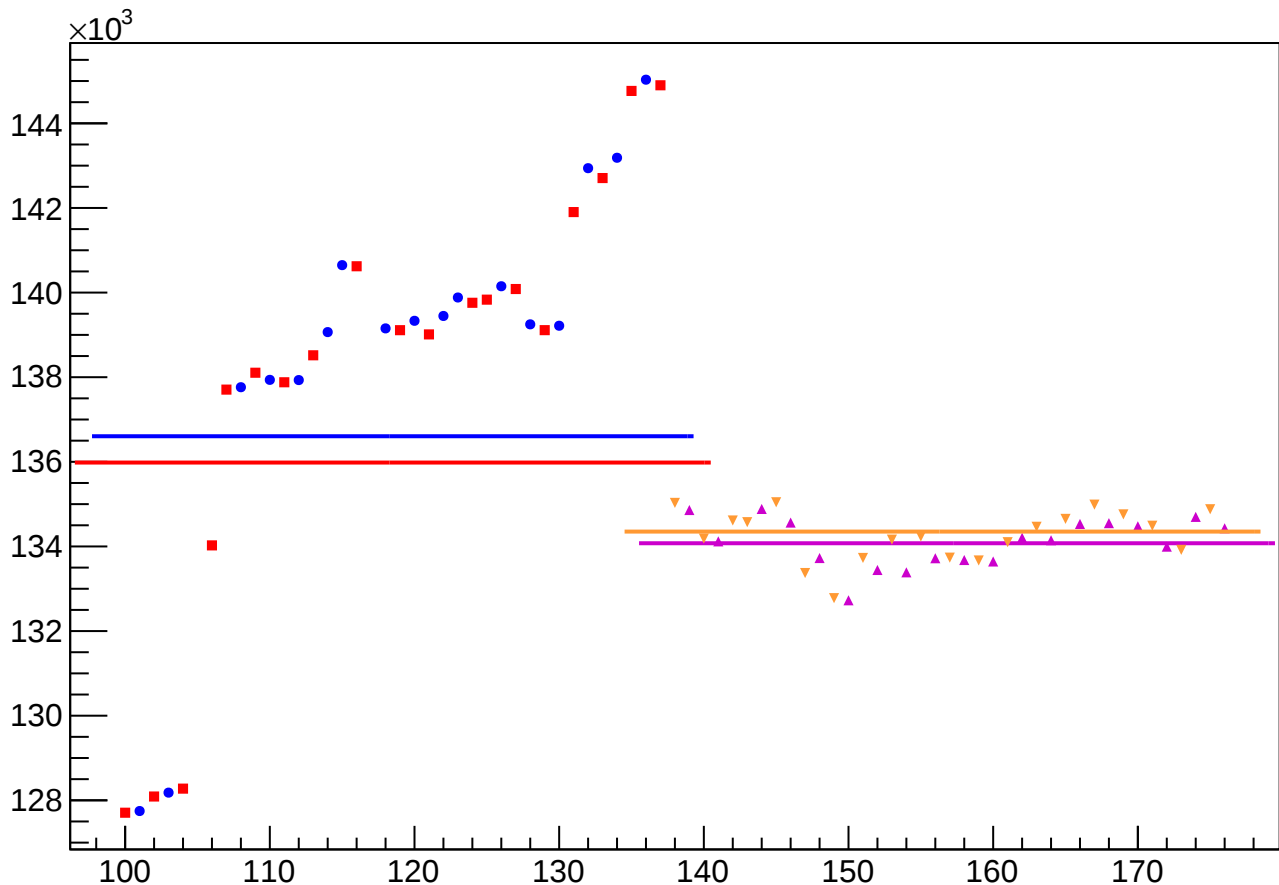
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 235.611 $\pm$ 0.038 χ^2 /NDF: 2412135.1/35

Out: 231.392 $\pm$ 0.036 χ^2 /NDF: 2640001.4/38

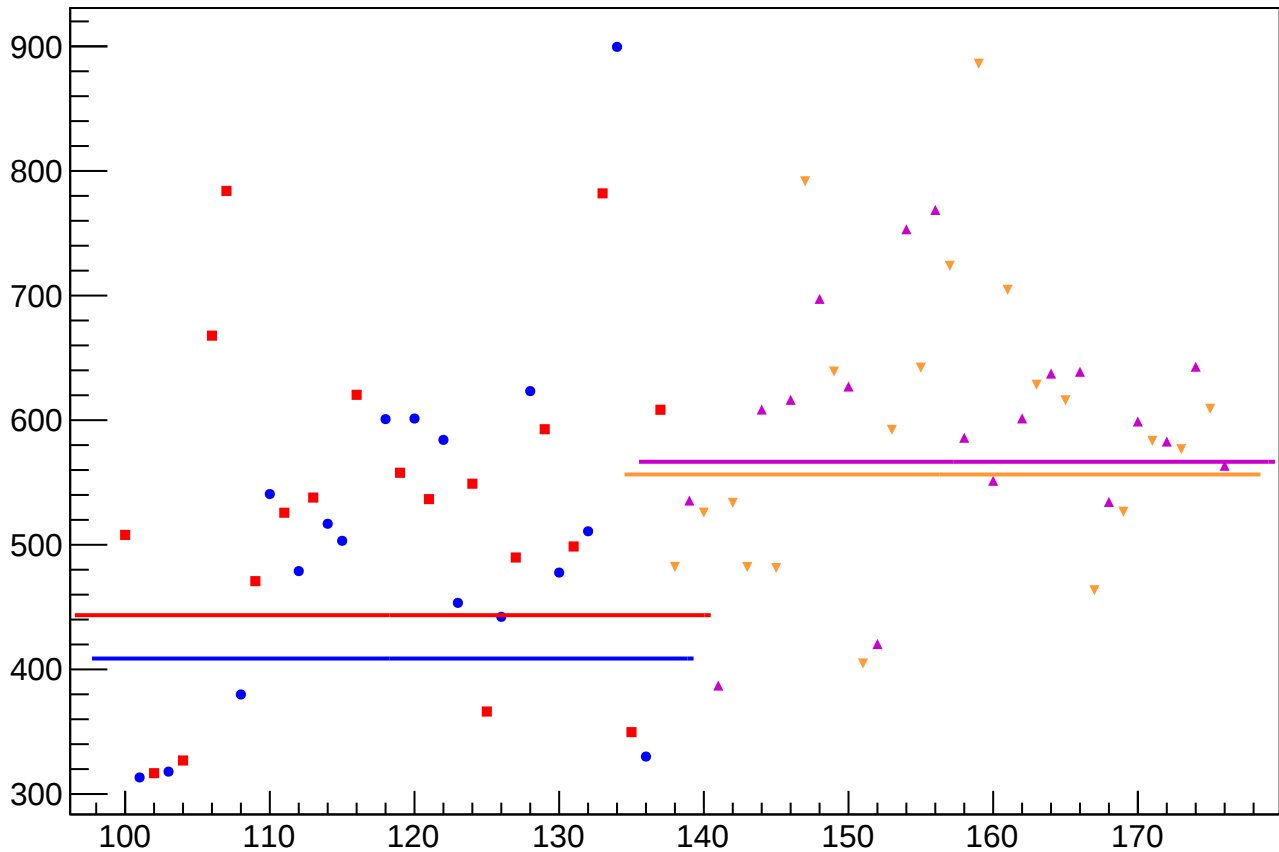
All: 233.434 $\pm$ 0.026 χ^2 /NDF: 5058644.9/74

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2/NDF : 1494354557.3/16	Left: 134219.250 $\pm$ 0.111	χ^2/NDF : 27673039.4/38
Left Out: 134351.264 $\pm$ 0.154	χ^2/NDF : 14304347.1/19	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: 135028.264 $\pm$ 0.118	χ^2/NDF : 1143403607.2/3
		All: 135142.812 $\pm$ 0.083	χ^2/NDF : 276749053.8/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 556.435 $\pm$ 0.109 χ^2 /NDF: 901391.3/19

Right Out: 443.521 $\pm$ 0.129 χ^2 /NDF: 917492.4/18

Left In: 566.618 $\pm$ 0.113 χ^2 /NDF: 768761.2/18

Left: 561.314 $\pm$ 0.079 χ^2 /NDF: 1674349.6/38

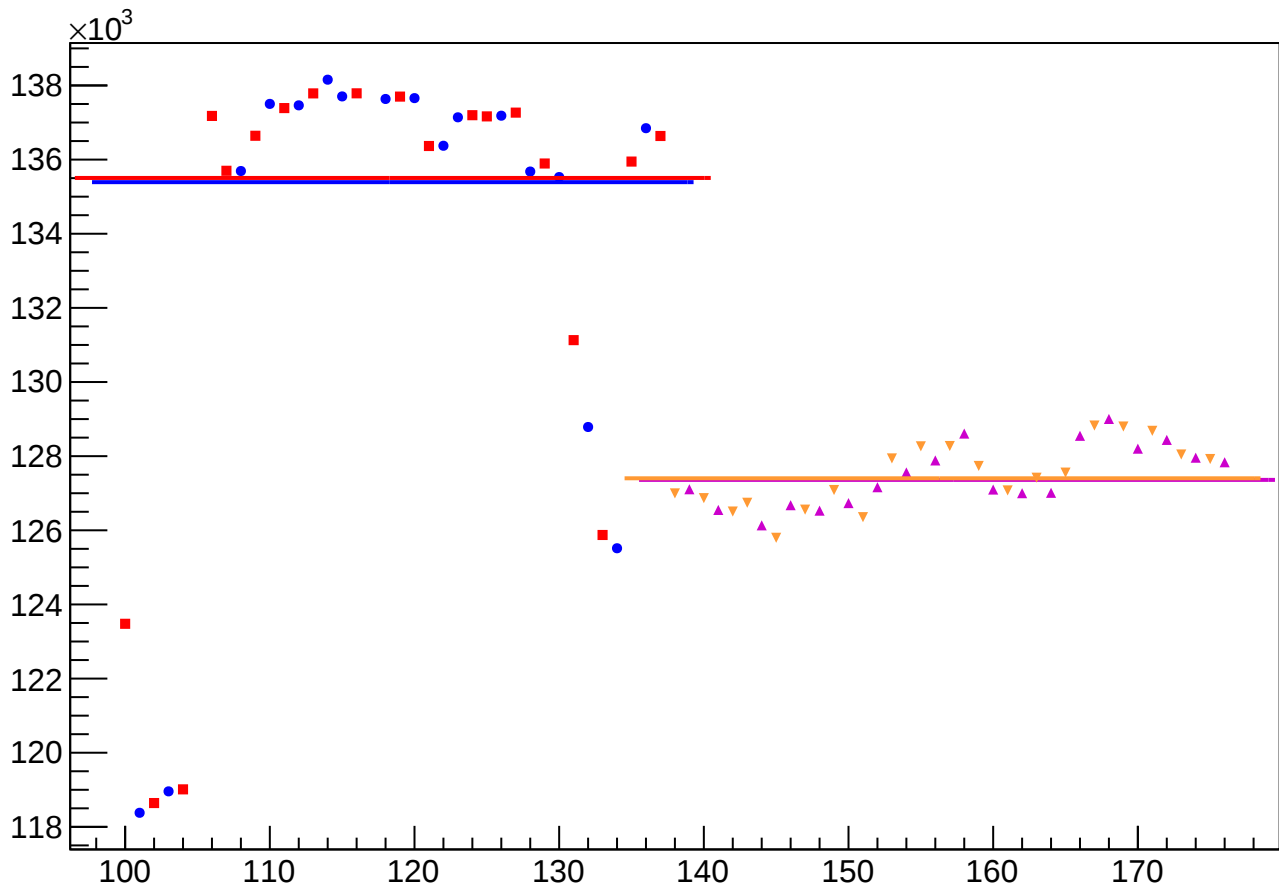
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 492.909 $\pm$ 0.083 χ^2 /NDF: 2496444.0/35

Out: 509.583 $\pm$ 0.083 χ^2 /NDF: 2265908.8/38

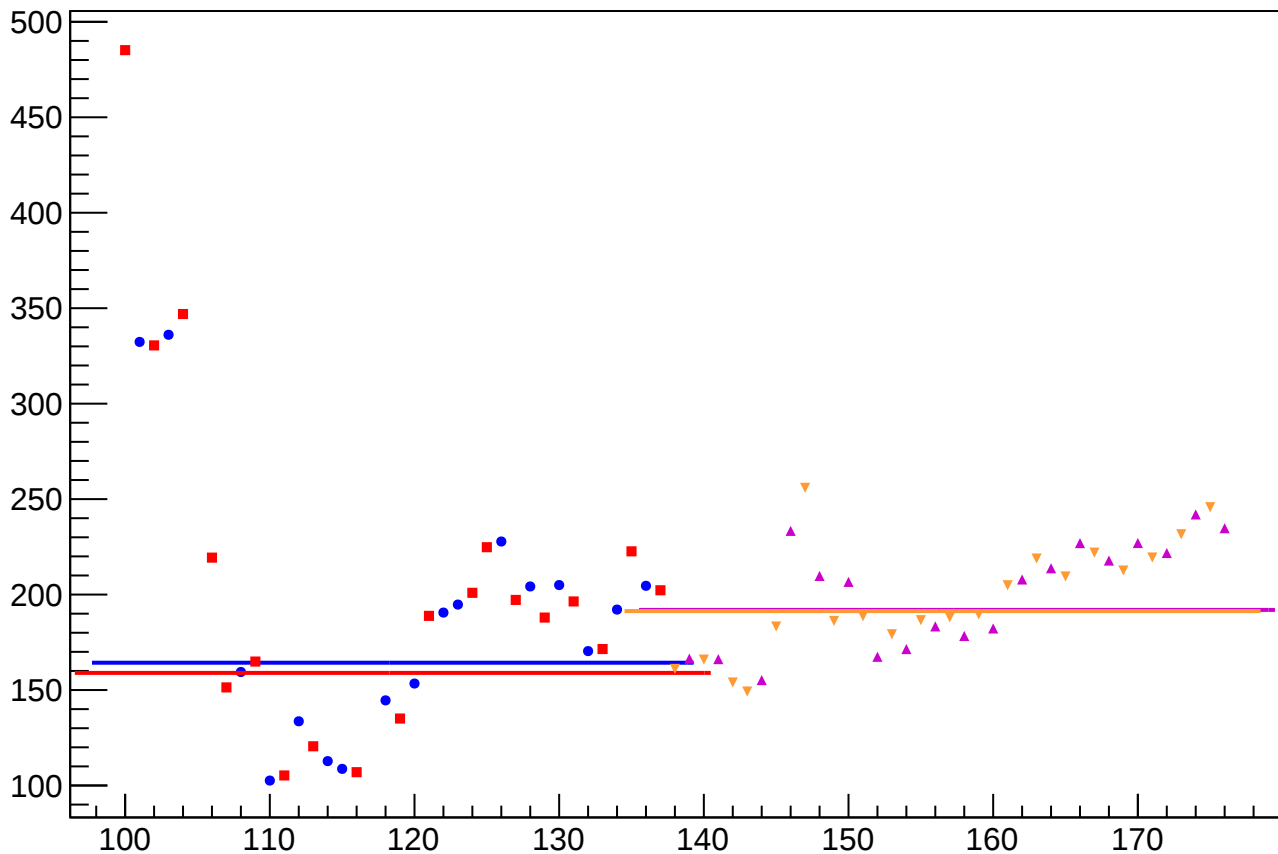
All: 501.208 $\pm$ 0.059 χ^2 /NDF: 4782522.3/74

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127381.782 $\pm$ 0.036	χ^2 /NDF: 531493237.7/38
Left Out: 127402.869 $\pm$ 0.050	χ^2 /NDF: 278547250.1/19	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: 130471.282 $\pm$ 0.040	χ^2 /NDF: 14845101132.5
		All: 130358.592 $\pm$ 0.028	χ^2 /NDF: 285751114

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311 $\pm$ 0.048 χ^2 /NDF: 1230487.8/16

Left Out: 191.355 $\pm$ 0.036 χ^2 /NDF: 586286.6/19

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: 191.656 $\pm$ 0.025 χ^2 /NDF: 1142395.7/38

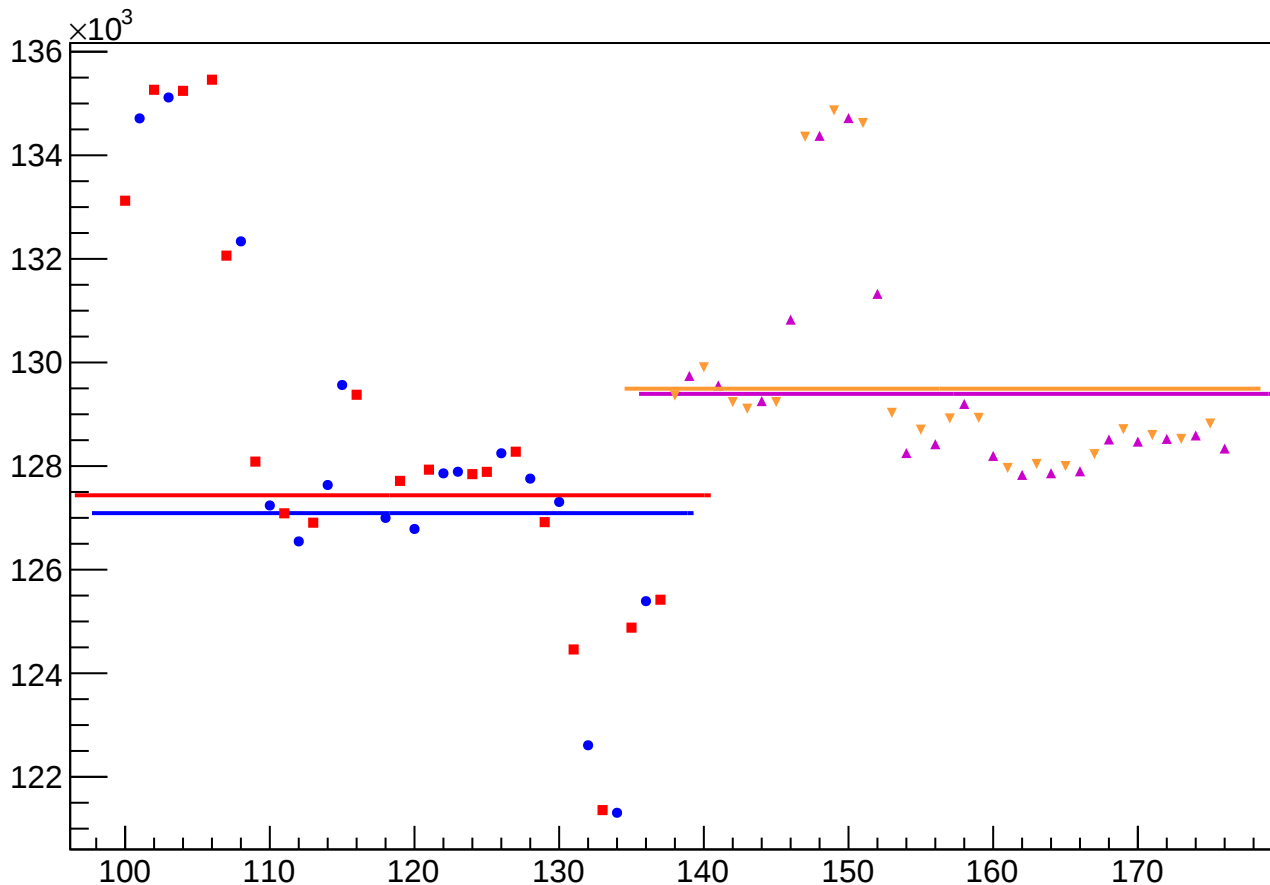
Right: 161.489 $\pm$ 0.033 χ^2 /NDF: 2621008.2/35

In: 182.054 $\pm$ 0.029 χ^2 /NDF: 1997042.5/35

Out: 179.093 $\pm$ 0.028 χ^2 /NDF: 2284506.4/38

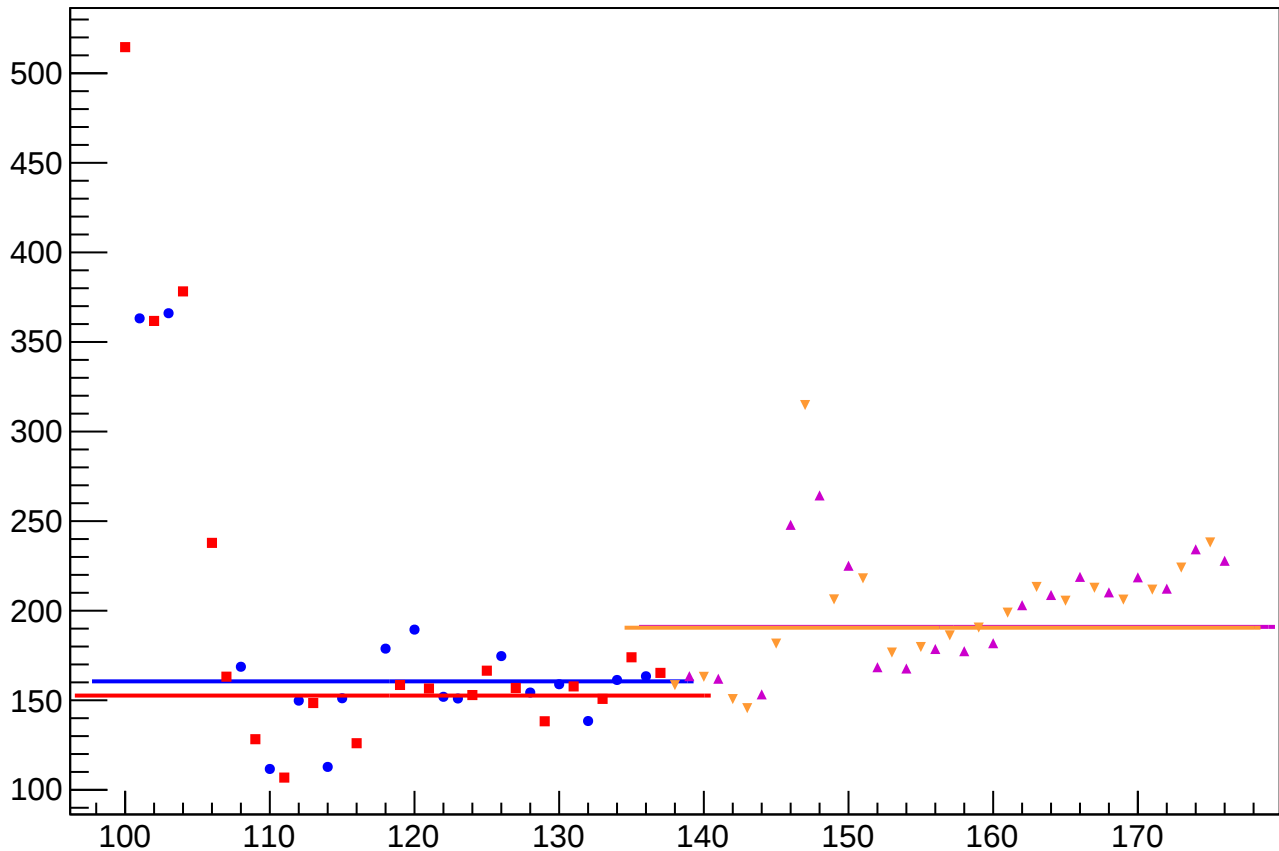
All: 180.528 $\pm$ 0.020 χ^2 /NDF: 4286960.3/74

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066	χ^2/NDF : 1717208780.6/16	Left: 129444.744+/-0.036	χ^2/NDF : 2527481851.4/3
Left Out: 129494.224+/-0.050	χ^2/NDF : 1374841513.6/19	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: 128670.322+/-0.039	χ^2/NDF : 4124545670.0/3
		All: 128607.564+/-0.028	χ^2/NDF : 775653453.0/3

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 190.510 $\pm$ 0.036 χ^2 /NDF: 742928.7/19

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 190.973 $\pm$ 0.036 χ^2 /NDF: 689280.1/18

Left: 190.738 $\pm$ 0.025 χ^2 /NDF: 1432292.4/38

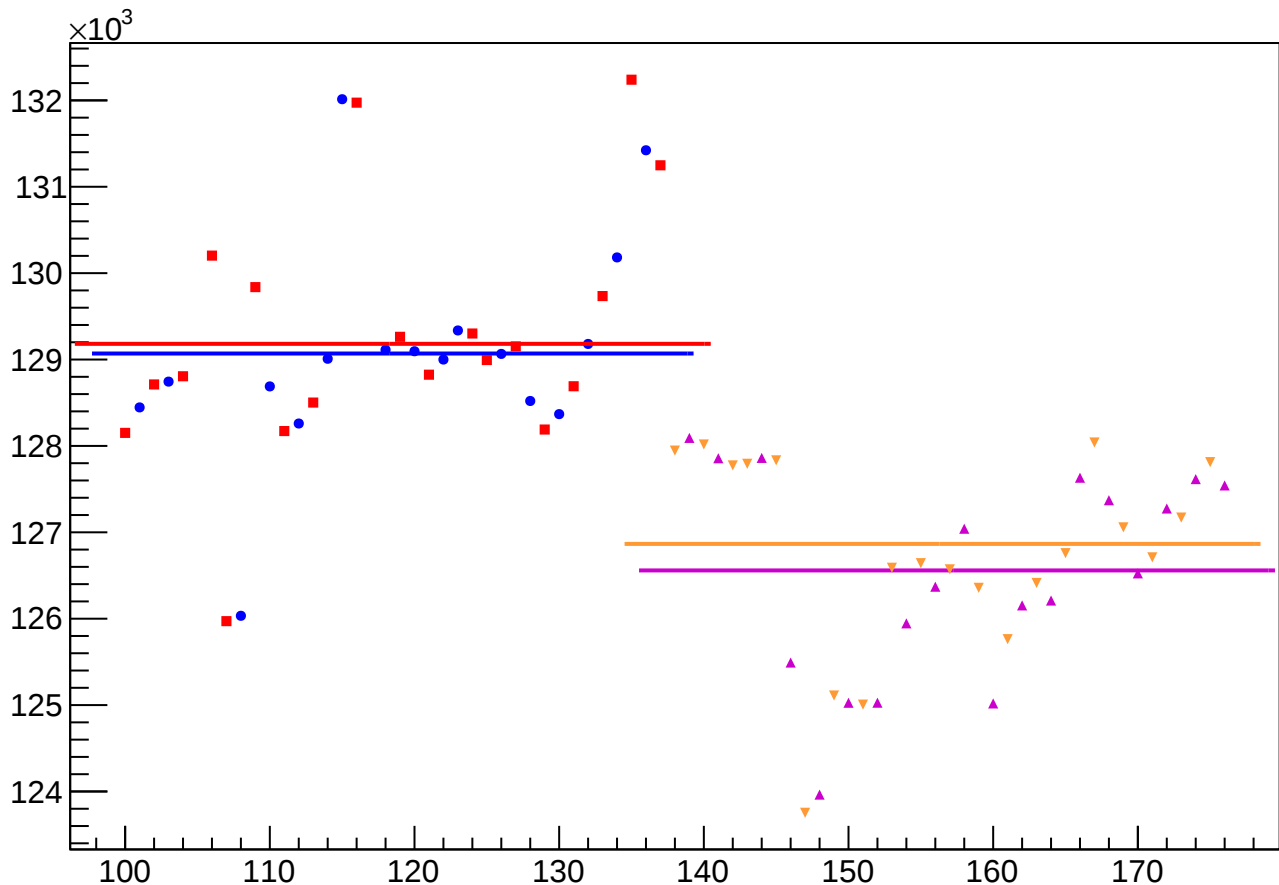
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 179.695 $\pm$ 0.029 χ^2 /NDF: 1896684.3/35

Out: 175.345 $\pm$ 0.028 χ^2 /NDF: 2283805.8/38

All: 177.441 $\pm$ 0.020 χ^2 /NDF: 4192514.2/74

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060

χ^2/NDF : 476692316.5/16

Left Out: 126865.936 $\pm$ 0.049

χ^2/NDF : 477487301.5/19

Right Out: 129181.887 $\pm$ 0.056

χ^2/NDF : 625597399.6/18

Left In: 126558.807 $\pm$ 0.050

χ^2/NDF : 583018648.7/18

Left: 126714.689 $\pm$ 0.035

χ^2/NDF : 1080029754.0/3

Right: 129129.710 $\pm$ 0.041

χ^2/NDF : 1104150743.5/3

In: 127572.719 $\pm$ 0.038

χ^2/NDF : 2097881980.7/3

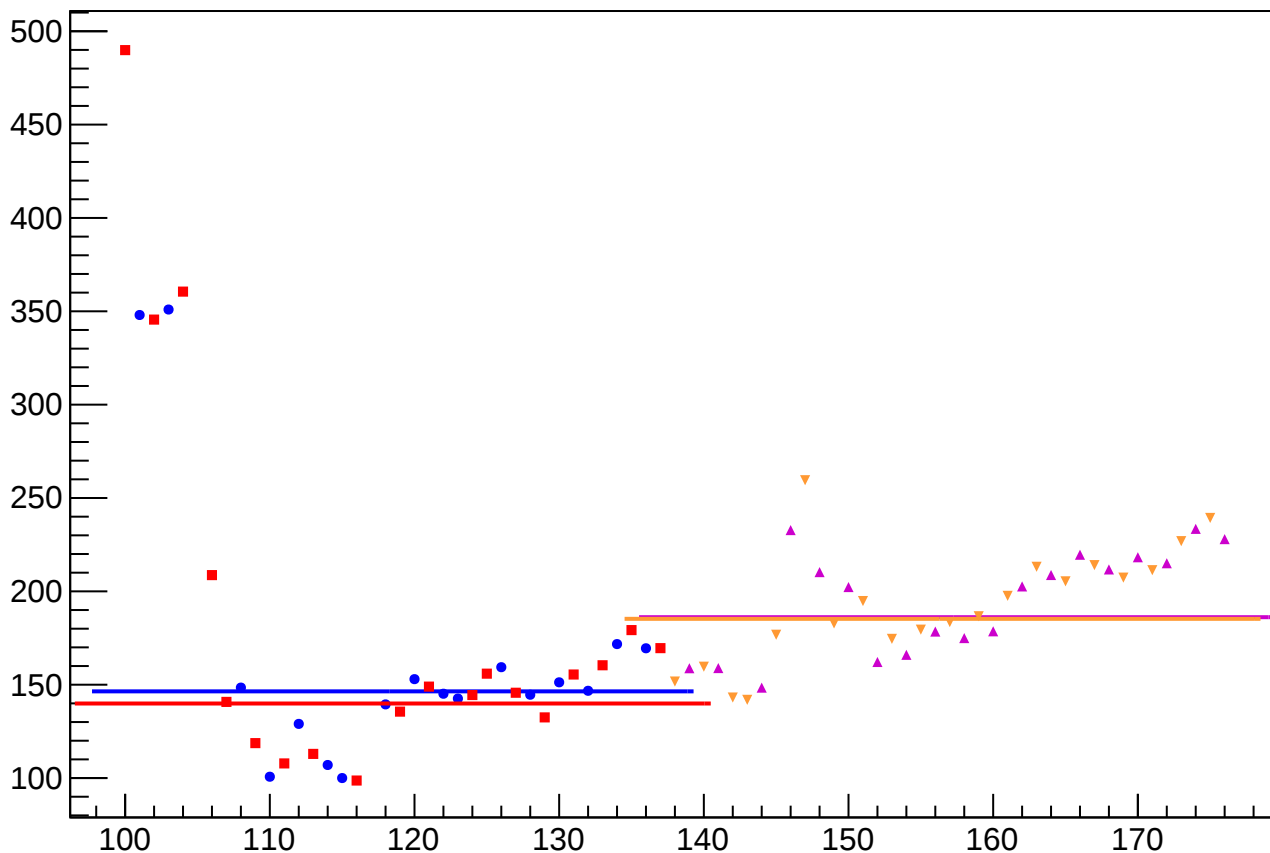
Out: 127863.174 $\pm$ 0.037

χ^2/NDF : 2073787997.6/3

All: 127723.474 $\pm$ 0.027

χ^2/NDF : 420162111.1/3

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 185.283 $\pm$ 0.034 χ^2 /NDF: 691401.1/19

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: 185.716 $\pm$ 0.025 χ^2 /NDF: 1298689.3/38

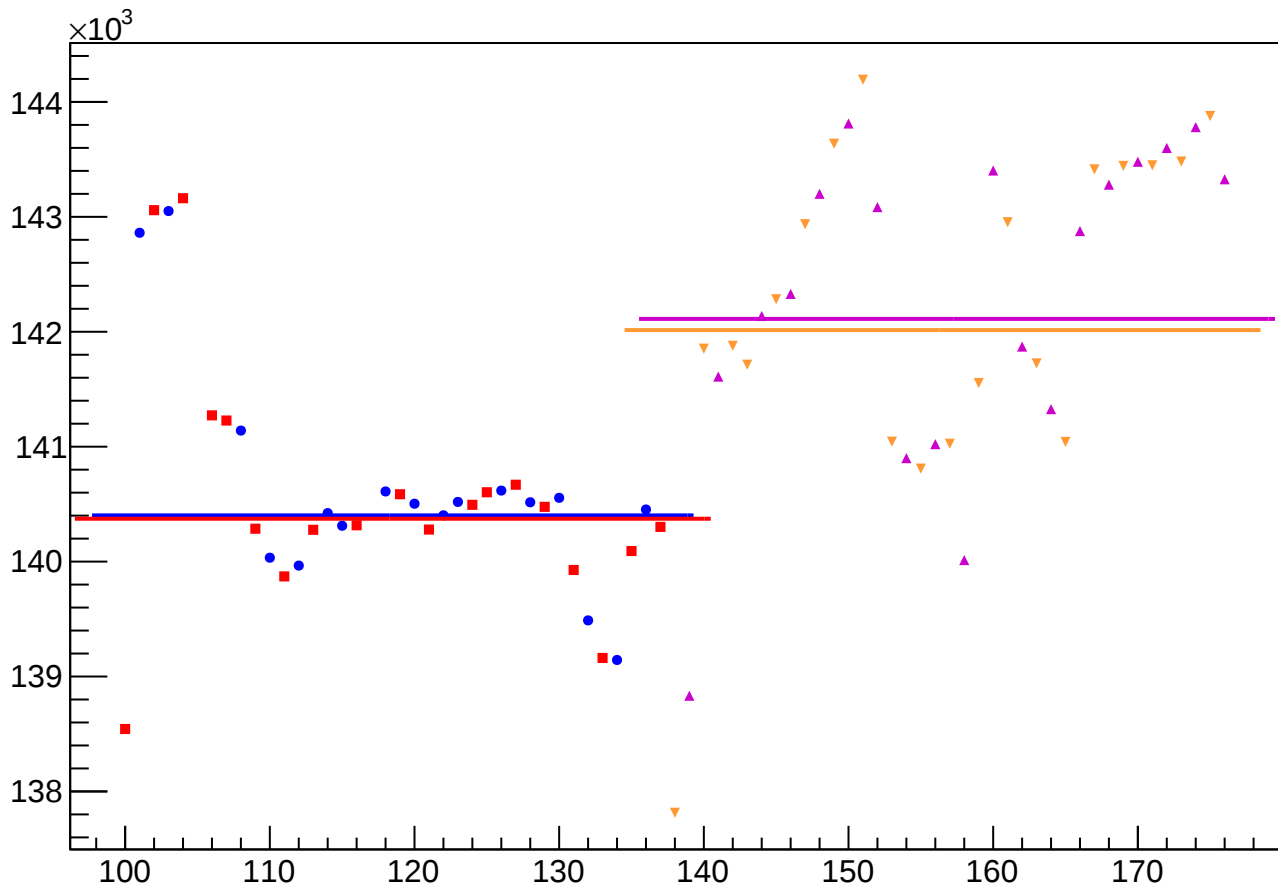
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 170.121 $\pm$ 0.027 χ^2 /NDF: 2191487.9/35

Out: 165.754 $\pm$ 0.026 χ^2 /NDF: 2639526.1/38

All: 167.854 $\pm$ 0.019 χ^2 /NDF: 4844554.1/74

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 142062.811 $\pm$ 0.040

χ^2 /NDF: 1396522385.3/3

Left Out: 142014.760 $\pm$ 0.056

χ^2 /NDF: 774066592.0/19

Right: 140386.544 $\pm$ 0.044

χ^2 /NDF: 188034057.1/3

Right Out: 140373.163 $\pm$ 0.060

χ^2 /NDF: 99854533.3/18

In: 141363.186 $\pm$ 0.043

χ^2 /NDF: 1105983934.4/3

Out: 141246.300 $\pm$ 0.041

χ^2 /NDF: 1274056952.8/3

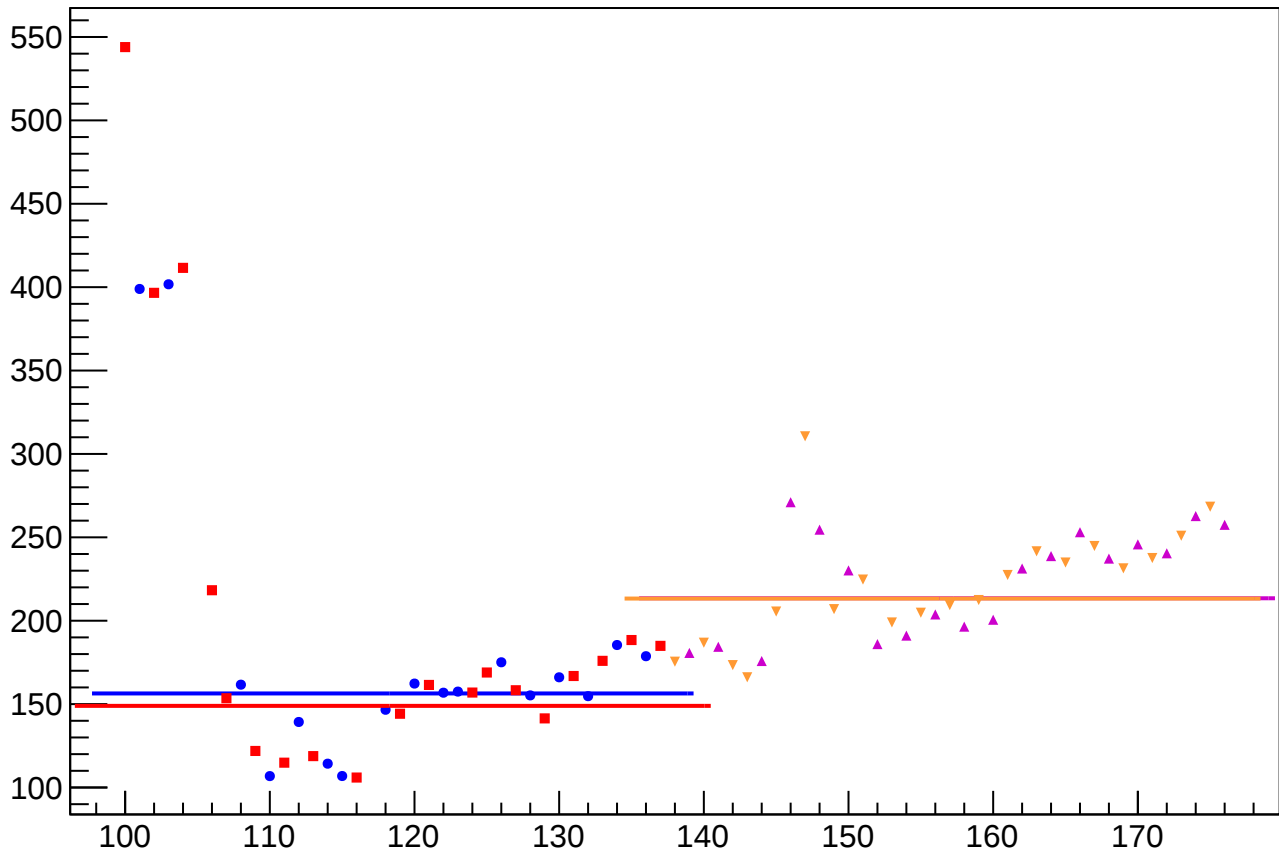
Left In: 142111.975 $\pm$ 0.057

χ^2 /NDF: 620974107.5/18

All: 141302.460 $\pm$ 0.030

χ^2 /NDF: 238395556

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 213.288 $\pm$ 0.040 χ^2 /NDF: 604986.3/19

Right Out: 148.949 $\pm$ 0.042 χ^2 /NDF: 1307651.5/18

Left In: 213.460 $\pm$ 0.040 χ^2 /NDF: 567035.9/18

Left: 213.373 $\pm$ 0.028 χ^2 /NDF: 1172031.5/38

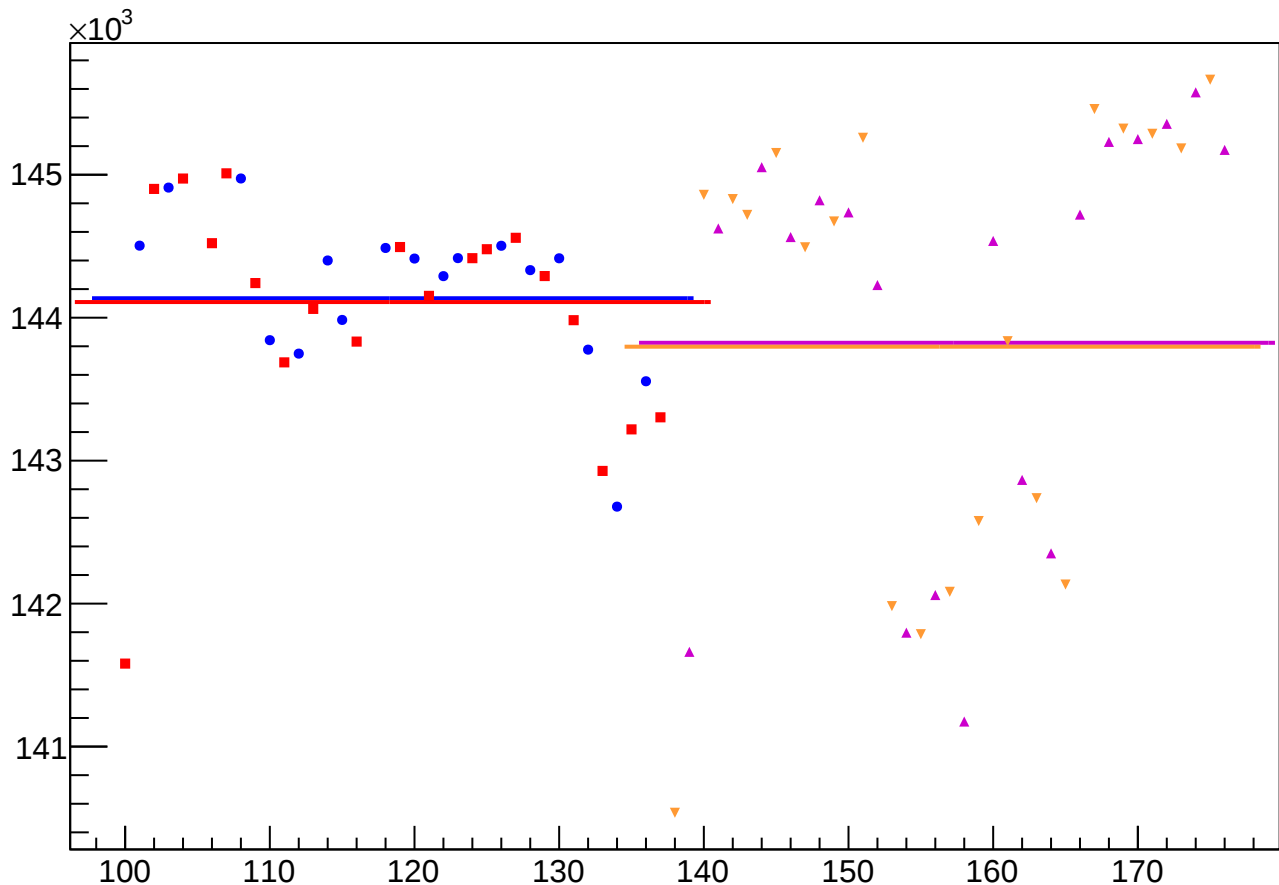
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 188.471 $\pm$ 0.030 χ^2 /NDF: 2606029.8/35

Out: 183.170 $\pm$ 0.029 χ^2 /NDF: 3141910.1/38

All: 185.717 $\pm$ 0.021 χ^2 /NDF: 5764044.0/74

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left: 143810.580 $\pm$ 0.040

χ^2 /NDF: 1483365703.5/3

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

Left Out: 143797.145 $\pm$ 0.056

χ^2 /NDF: 806293110.3/19

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

Left In: 143824.418 $\pm$ 0.057

χ^2 /NDF: 676955513.6/18

In: 143955.224 $\pm$ 0.043

χ^2 /NDF: 736672523.6/35

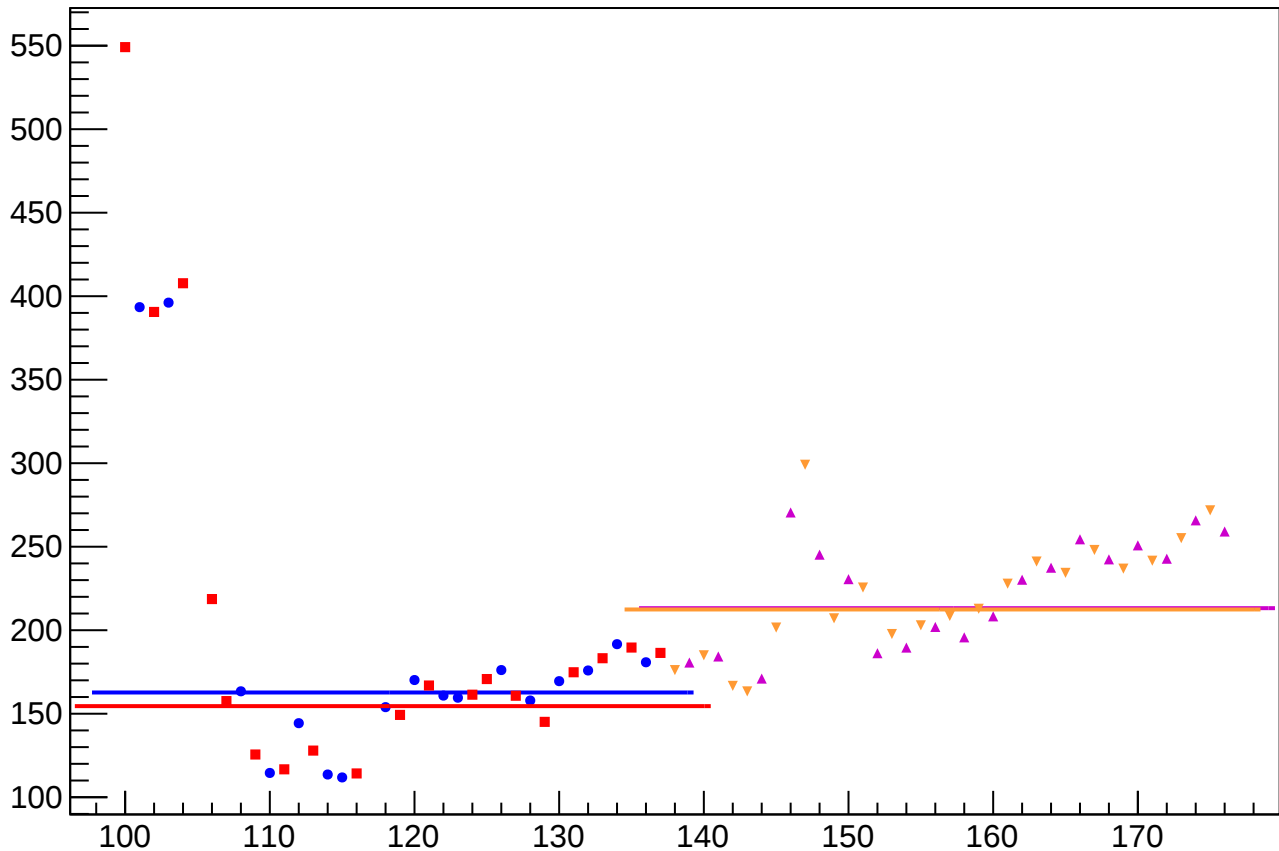
Out: 143937.614 $\pm$ 0.041

χ^2 /NDF: 885568155.5/38

All: 143946.053 $\pm$ 0.030

χ^2 /NDF: 162232695

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2 /NDF: 1066482.0/16

Left Out: 212.420 $\pm$ 0.040 χ^2 /NDF:655343.6/19

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: 212.806 $\pm$ 0.028 χ^2 /NDF: 1259193.8/38

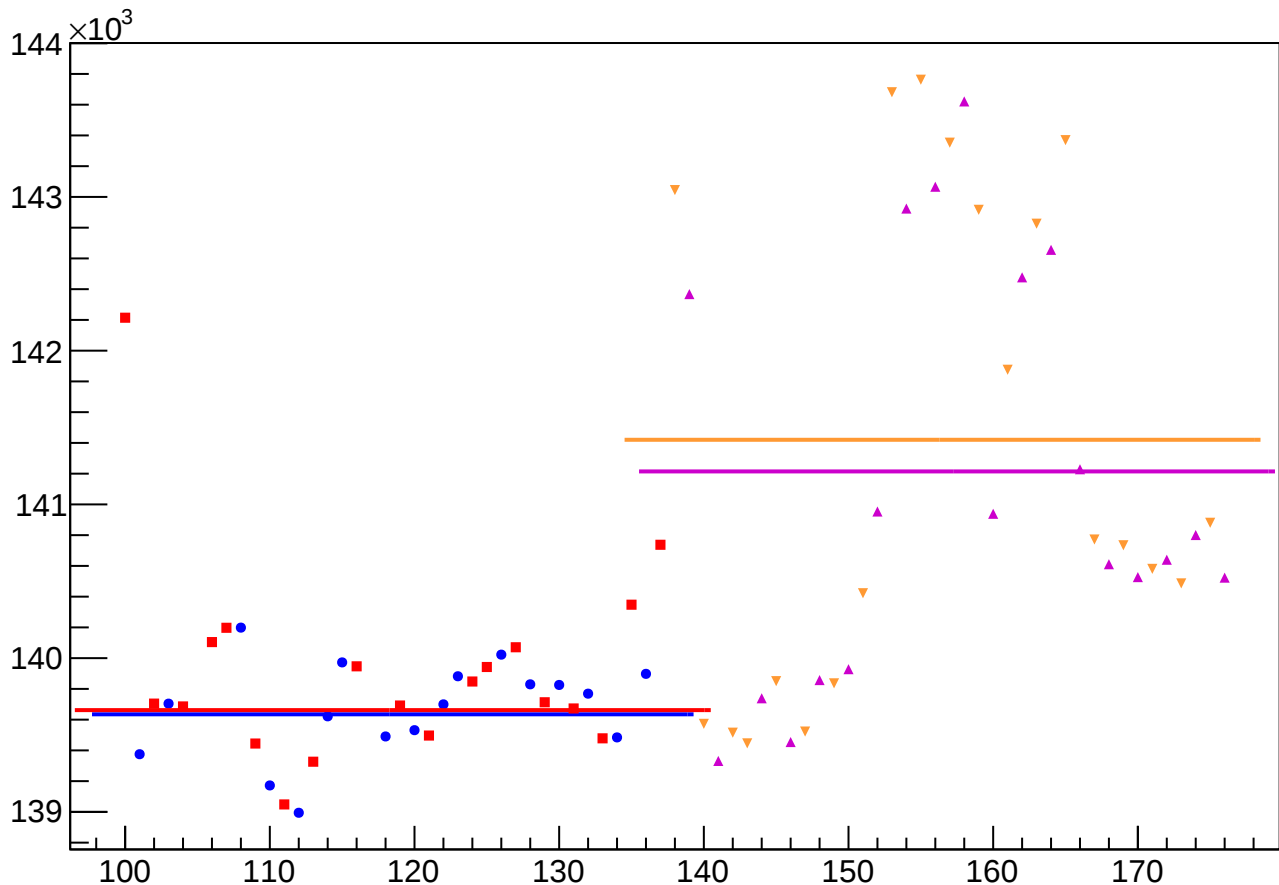
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 192.015 $\pm$ 0.031 χ^2 /NDF:2333812.9/35

Out: 186.388 $\pm$ 0.029 χ^2 /NDF:2835685.1/38

All: 189.085 $\pm$ 0.021 χ^2 /NDF: 5187128.5/74

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700 $\pm$ 0.068

χ^2 /NDF: 24844912.0/16

Left Out: 141420.354 $\pm$ 0.058

χ^2 /NDF: 745277814.4/19

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: 141317.902 $\pm$ 0.041

χ^2 /NDF: 1289781237.7/3

Right: 139649.322 $\pm$ 0.046

χ^2 /NDF: 63304699.0/35

In: 140544.129 $\pm$ 0.044

χ^2 /NDF: 875840124.2/35

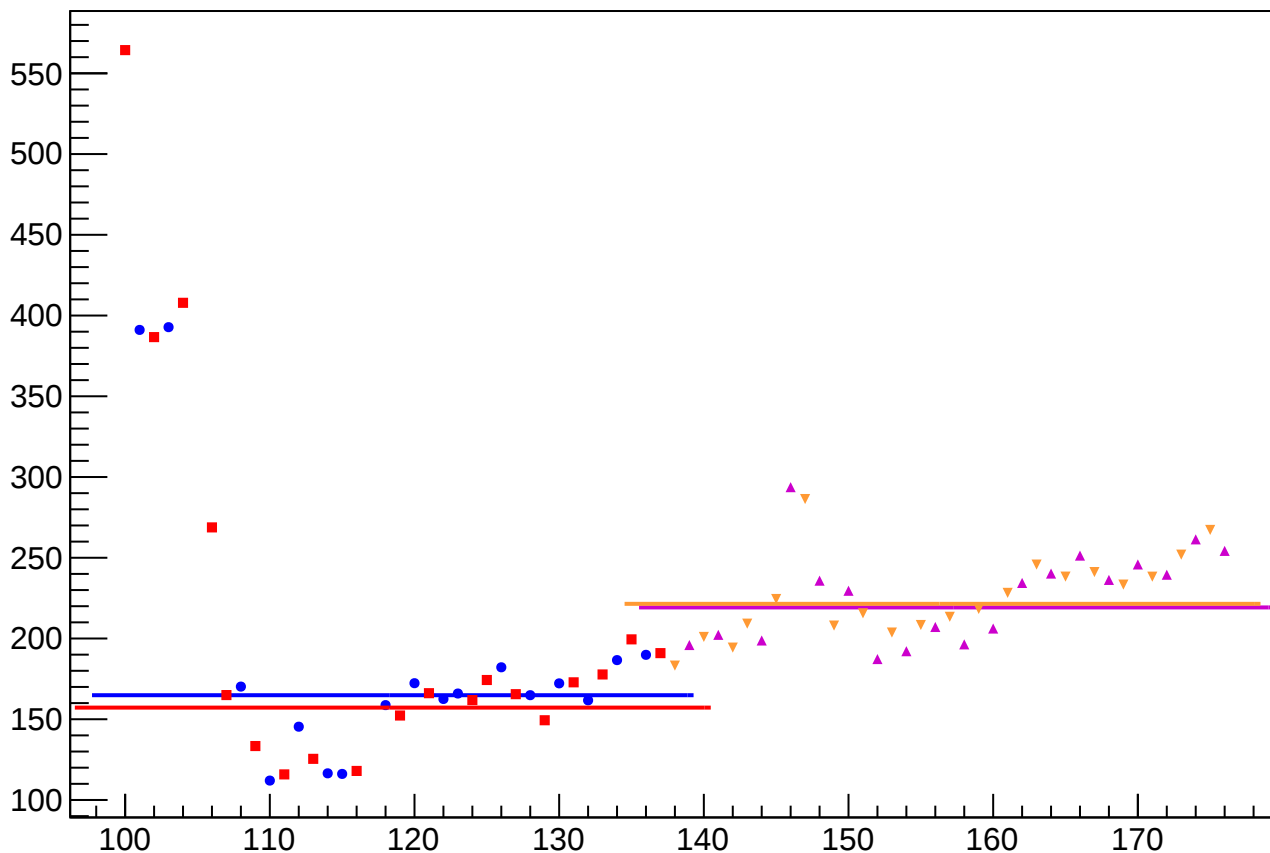
Out: 140615.130 $\pm$ 0.043

χ^2 /NDF: 1205441284.4/3

All: 140580.851 $\pm$ 0.031

χ^2 /NDF: 208261894

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2 /NDF: 1066270.8/16

Left Out: 221.469 $\pm$ 0.041 χ^2 /NDF: 320949.2/19

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: 220.358 $\pm$ 0.029 χ^2 /NDF: 731295.0/38

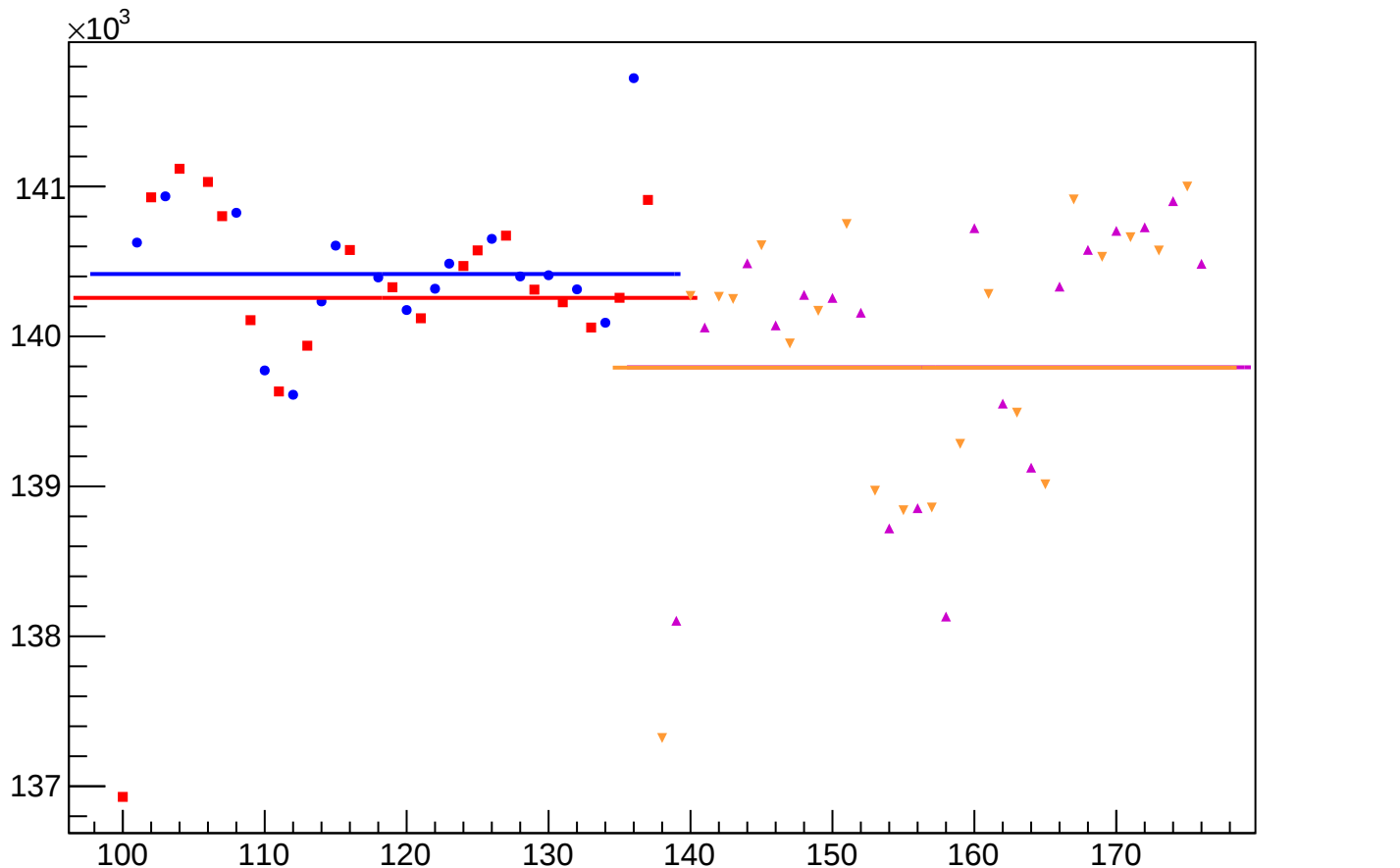
Right: 160.768 $\pm$ 0.033 χ^2 /NDF: 2325060.5/35

In: 196.173 $\pm$ 0.031 χ^2 /NDF: 2215588.0/35

Out: 192.041 $\pm$ 0.030 χ^2 /NDF: 2692656.7/38

All: 194.036 $\pm$ 0.022 χ^2 /NDF: 4917303.6/74

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 $\pm$ 0.068 χ^2/NDF : 69975821.3/16

Left Out: 139791.809 $\pm$ 0.055 χ^2/NDF : 318202446.6/19

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: 139792.884 $\pm$ 0.039 χ^2/NDF : 587961841.4/38

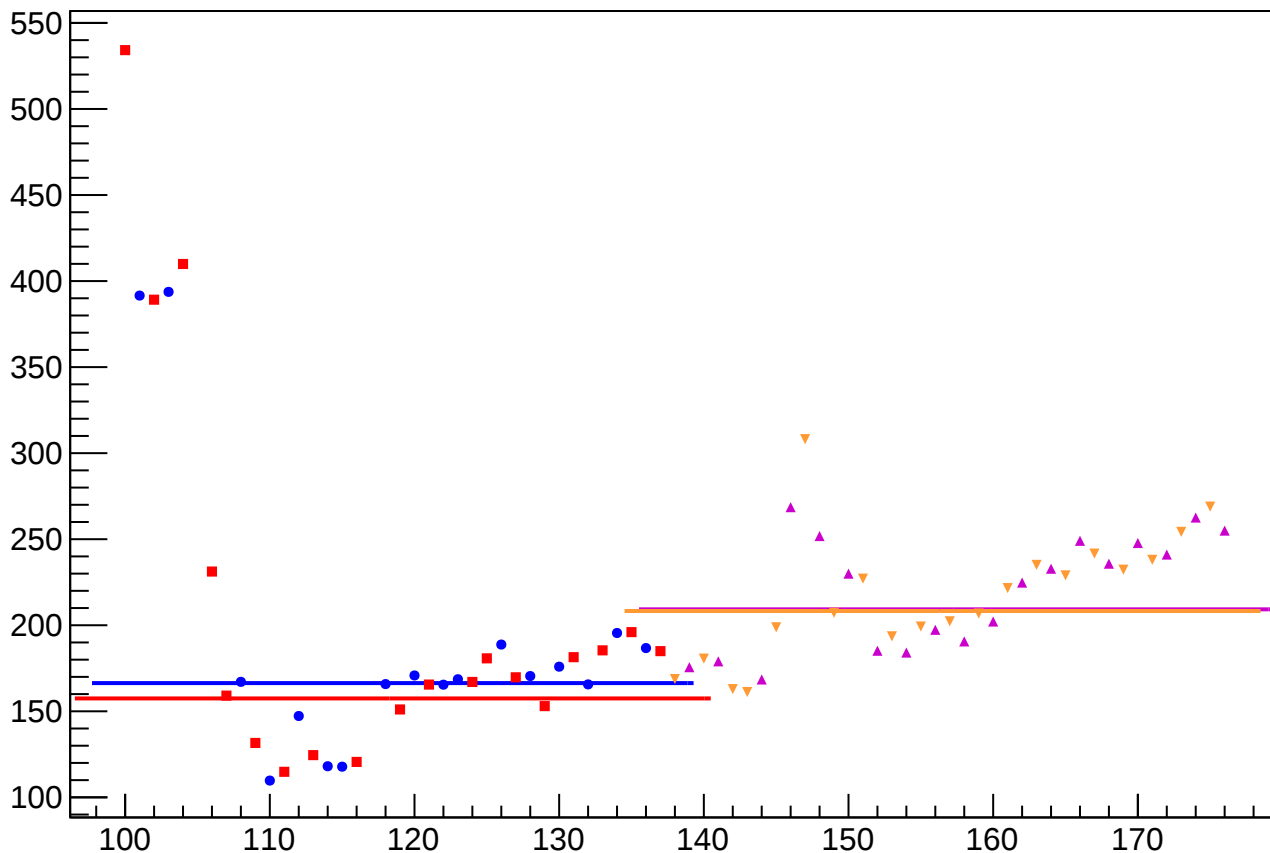
Right: 140330.188 $\pm$ 0.046 χ^2/NDF : 110959487.0/3

In: 140042.208 $\pm$ 0.043 χ^2/NDF : 389451792.8/35

Out: 139991.930 $\pm$ 0.041 χ^2/NDF : 387191075.6/38

All: 140016.008 $\pm$ 0.030 χ^2/NDF : 777348643

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2 /NDF: 1080964.8/16

Left Out: 208.285 $\pm$ 0.039 χ^2 /NDF: 716670.2/19

Right Out: 157.475 $\pm$ 0.045 χ^2 /NDF: 1229886.8/18

Left In: 209.253 $\pm$ 0.039 χ^2 /NDF: 649495.1/18

Left: 208.761 $\pm$ 0.028 χ^2 /NDF: 1366471.6/38

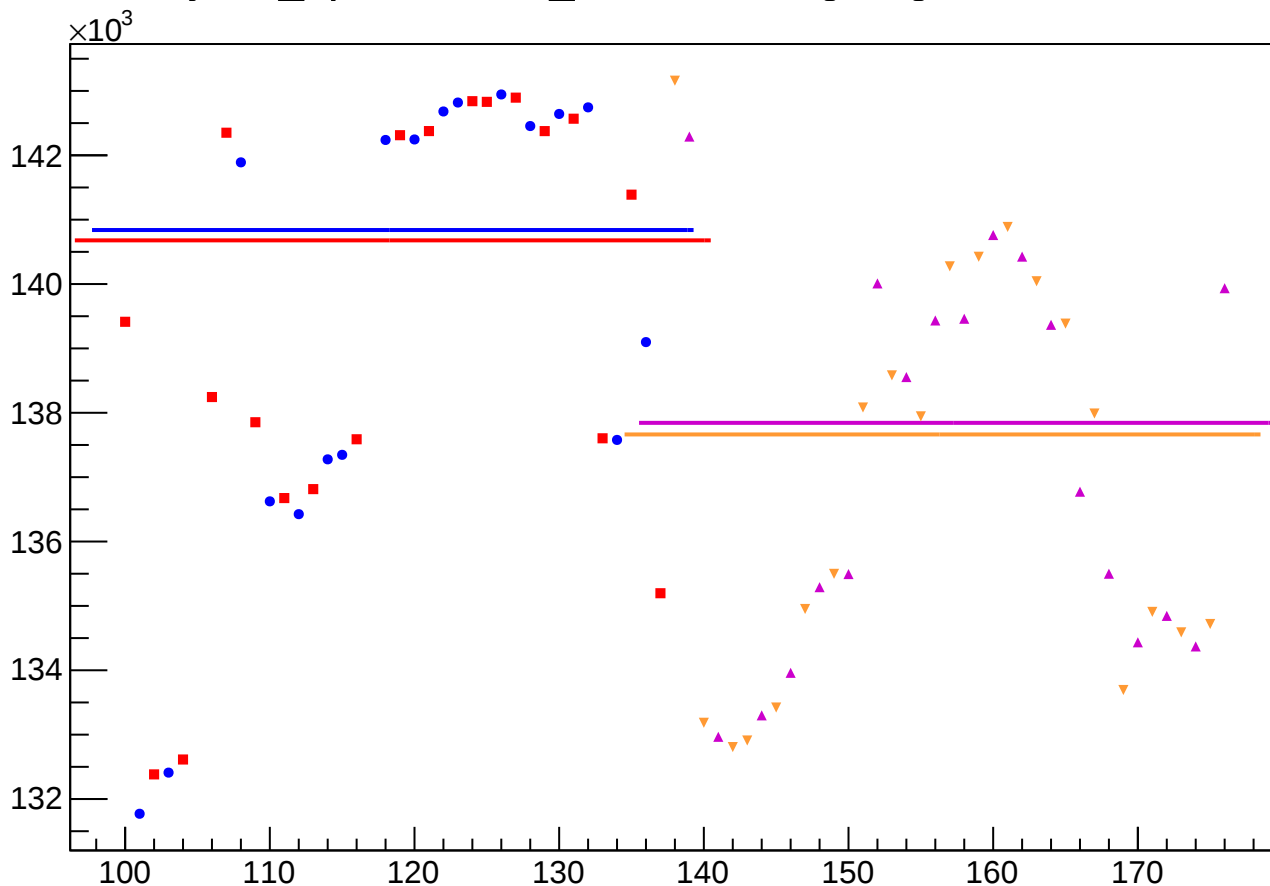
Right: 161.576 $\pm$ 0.033 χ^2 /NDF: 2329186.5/35

In: 192.149 $\pm$ 0.031 χ^2 /NDF: 2202592.4/35

Out: 186.426 $\pm$ 0.029 χ^2 /NDF: 2684439.3/38

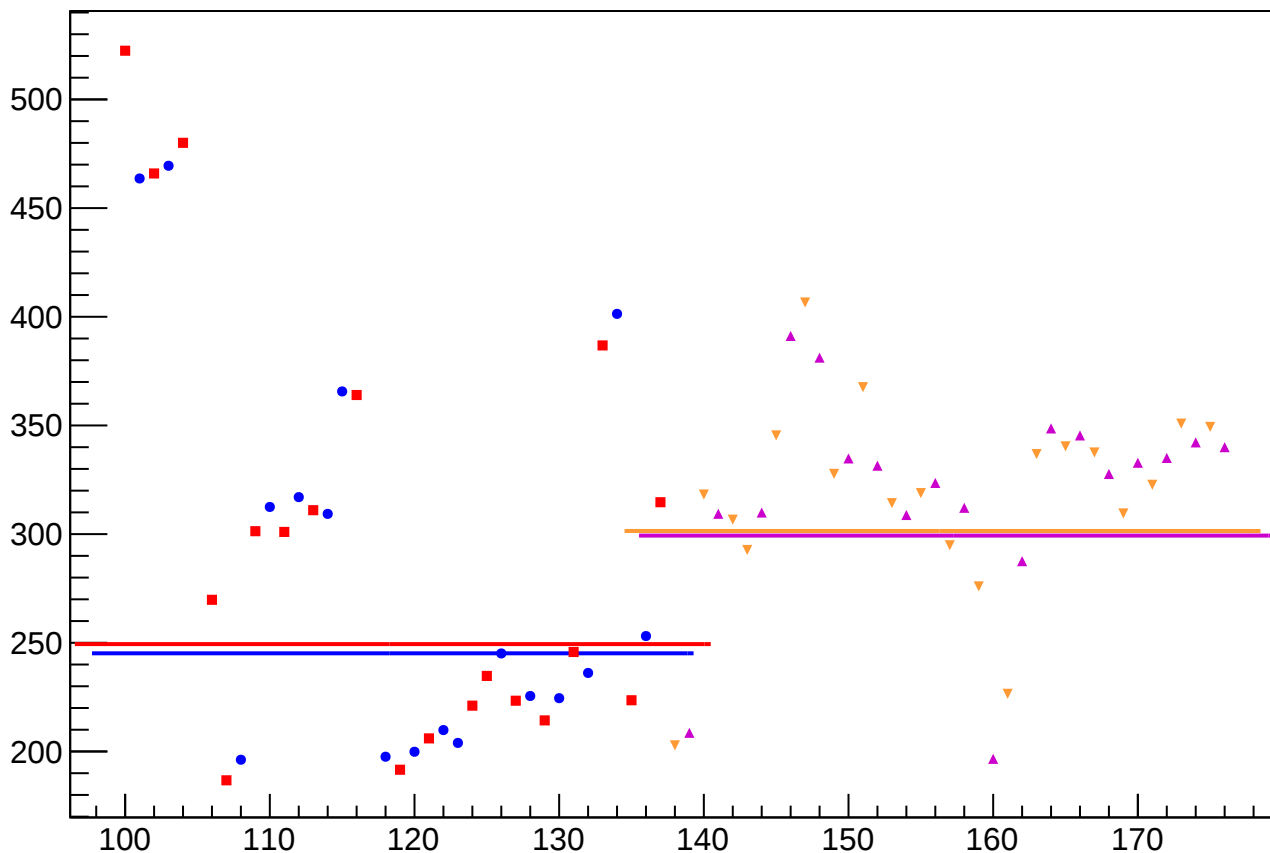
All: 189.167 $\pm$ 0.021 χ^2 /NDF: 4905317.1/74

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 137752.913 $\pm$ 0.057	χ^2/NDF : 3197509302.7/3
Left Out: 137663.584 $\pm$ 0.080	χ^2/NDF : 1759075011.7/19	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: 138854.102 $\pm$ 0.062	χ^2/NDF : 3159847868.6/3
		All: 138938.799 $\pm$ 0.044	χ^2/NDF : 59654873

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 301.446 $\pm$ 0.057 χ^2 /NDF:835810.4/19

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: 300.394 $\pm$ 0.040 χ^2 /NDF: 1850420.3/38

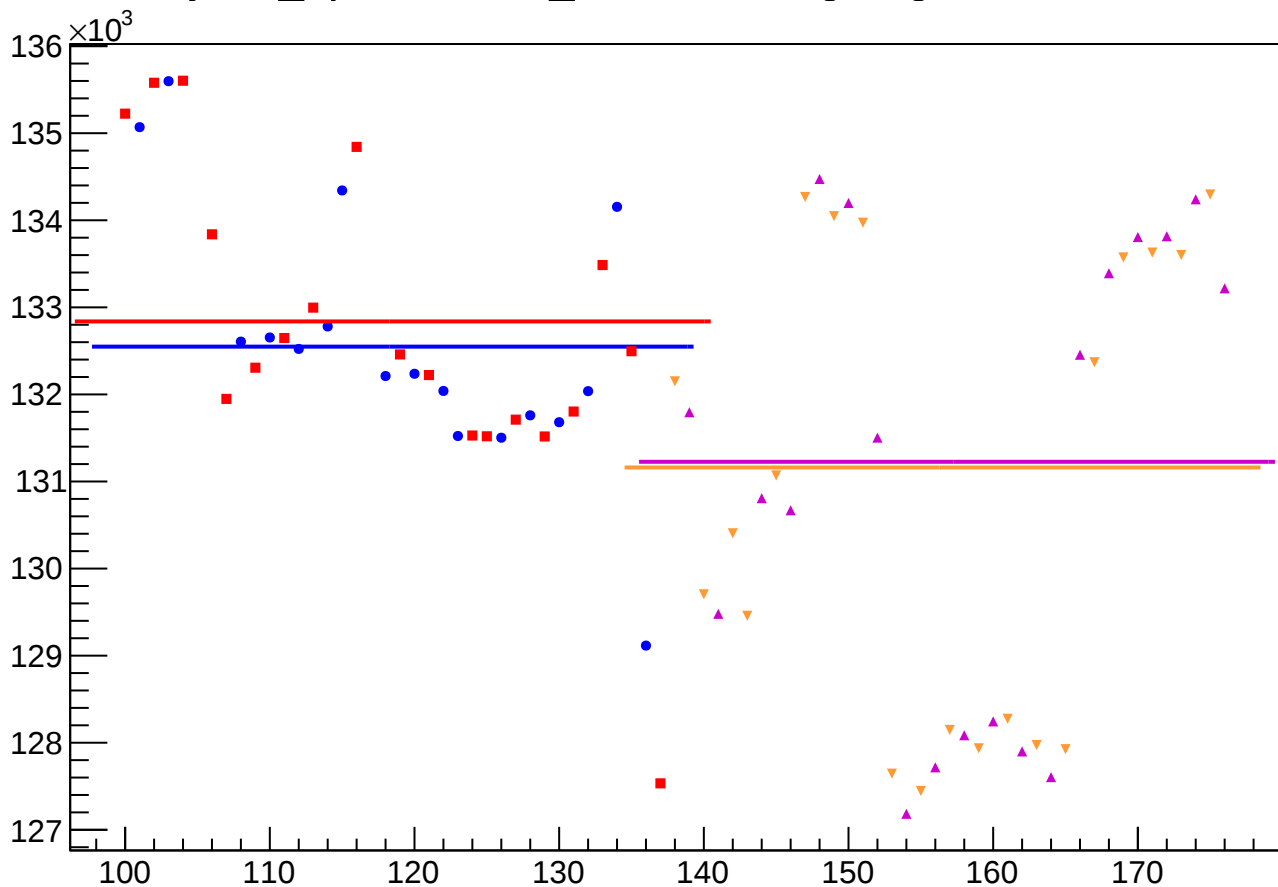
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 277.964 $\pm$ 0.044 χ^2 /NDF:2238702.8/35

Out: 280.893 $\pm$ 0.044 χ^2 /NDF:2179390.5/38

All: 279.441 $\pm$ 0.031 χ^2 /NDF: 4420286.7/74

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119

χ^2 /NDF: 161115079.9/16

Left: 131192.144 $\pm$ 0.049

χ^2 /NDF: 2199600556.9/3

Right: 132709.226 $\pm$ 0.080

χ^2 /NDF: 313982981.1/3

Left Out: 131161.072 $\pm$ 0.068

χ^2 /NDF: 1153771096.1/19

Right Out: 132838.294 $\pm$ 0.107

χ^2 /NDF: 149611447.6/18

In: 131574.852 $\pm$ 0.061

χ^2 /NDF: 1296906481.0/35

Out: 131643.082 $\pm$ 0.057

χ^2 /NDF: 1478147503.1/3

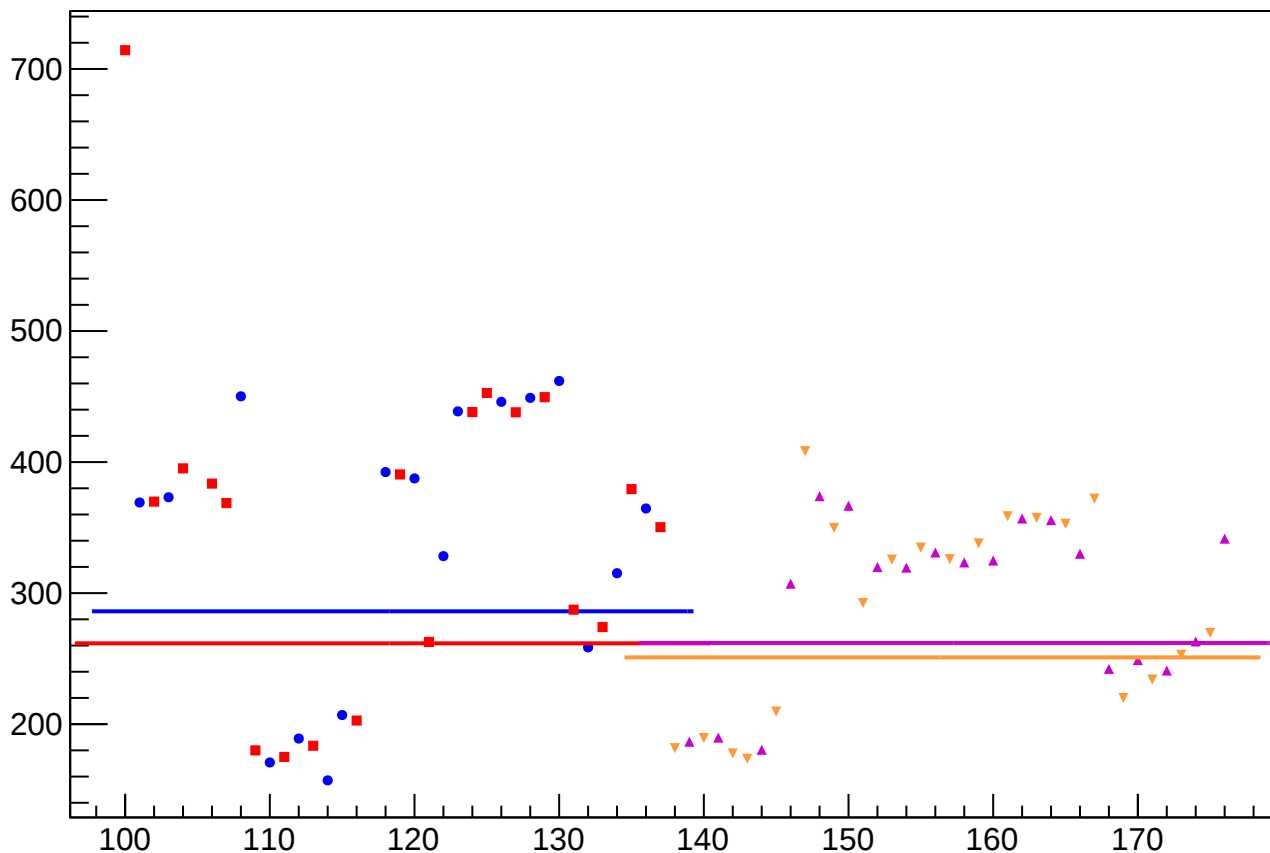
Left In: 131226.386 $\pm$ 0.071

χ^2 /NDF: 1045390743.1/18

All: 131611.183 $\pm$ 0.042

χ^2 /NDF: 277571422

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 $\pm$ 0.084 χ^2 /NDF: 1525266.4/16

Left Out: 250.948 $\pm$ 0.048 χ^2 /NDF:2146832.5/19

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: 256.196 $\pm$ 0.035 χ^2 /NDF: 3909547.1/38

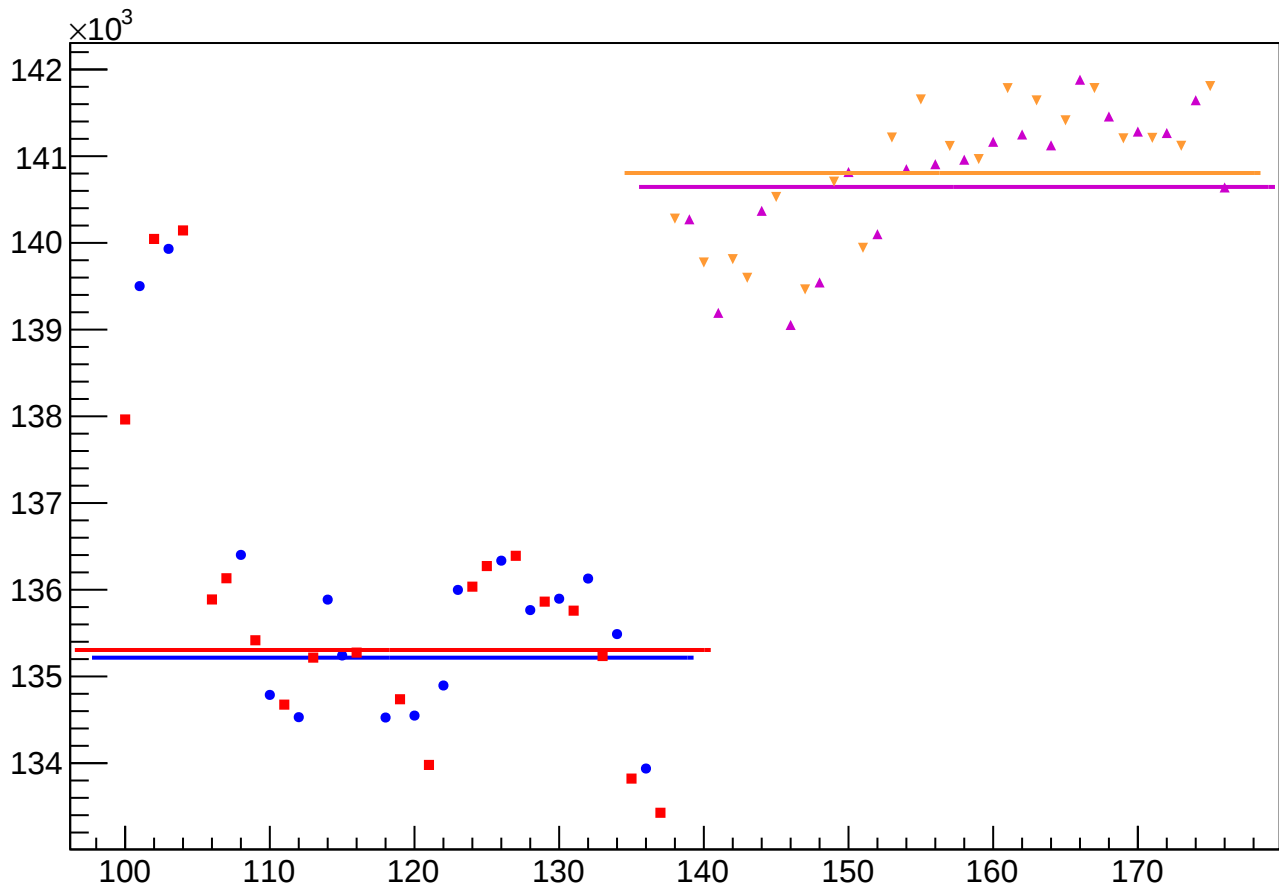
Right: 272.584 $\pm$ 0.056 χ^2 /NDF: 3194872.3/35

In: 268.340 $\pm$ 0.043 χ^2 /NDF:3323207.3/35

Out: 254.034 $\pm$ 0.041 χ^2 /NDF:3784334.9/38

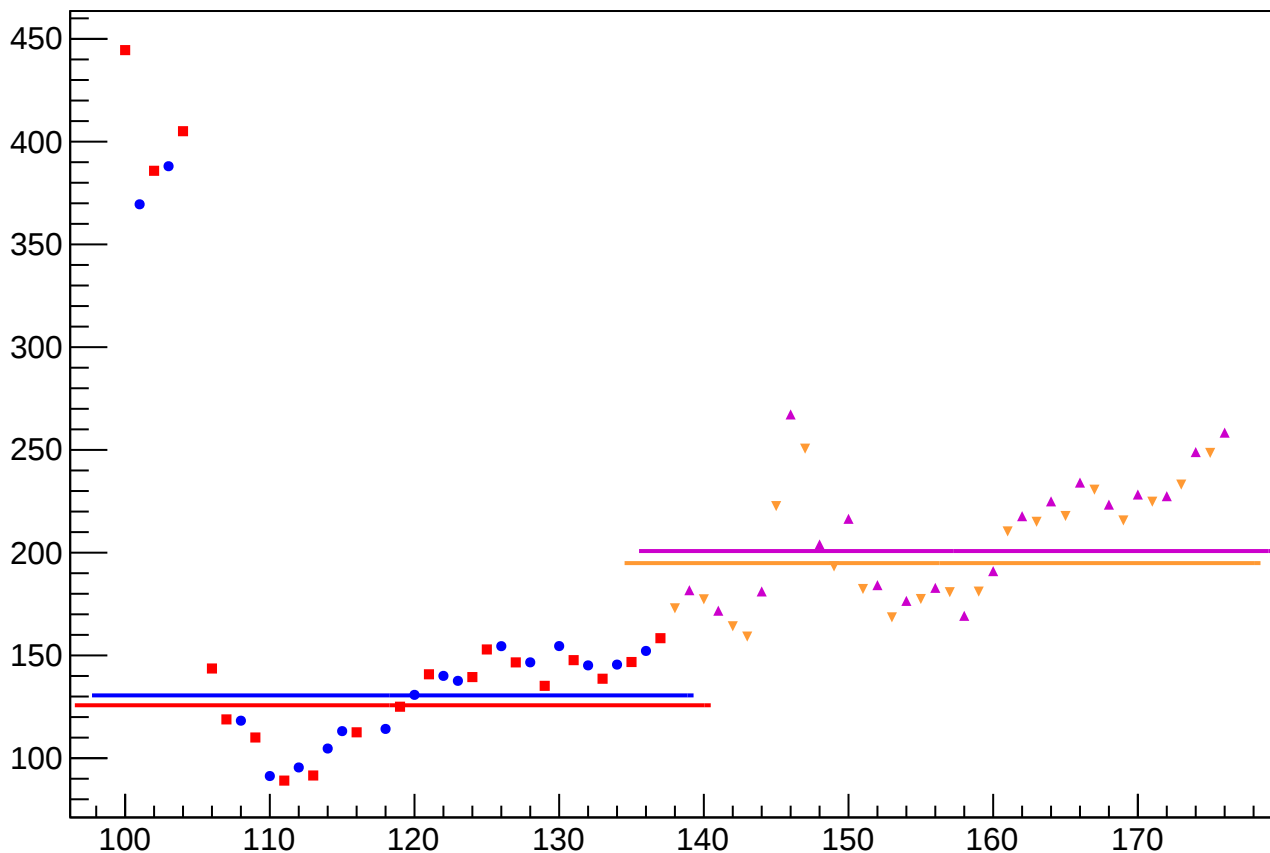
All: 260.722 $\pm$ 0.030 χ^2 /NDF: 7165598.6/74

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054	χ^2 /NDF: 371347707.3/16	Left: 140729.077 $\pm$ 0.037	χ^2 /NDF: 412414828.1/38
Left Out: 140806.131 $\pm$ 0.051	χ^2 /NDF: 216993587.4/19	Right: 135263.557 $\pm$ 0.037	χ^2 /NDF: 730392205.8/3
Right Out: 135305.135 $\pm$ 0.051	χ^2 /NDF: 357636841.6/18	In: 137977.535 $\pm$ 0.038	χ^2 /NDF: 5635055088.3/35
Left In: 140645.371 $\pm$ 0.053	χ^2 /NDF: 190707831.1/18	Out: 138049.022 $\pm$ 0.036	χ^2 /NDF: 6345766368.3/3
		All: 138015.104 $\pm$ 0.026	χ^2 /NDF: 119826711

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 ± 0.038 $\chi^2/\text{NDF}: 1373104.9/16$

Left Out: 194.921 ± 0.036 $\chi^2/\text{NDF}: 539727.6/19$

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: 197.734 ± 0.026 $\chi^2/\text{NDF}: 1087058.8/38$

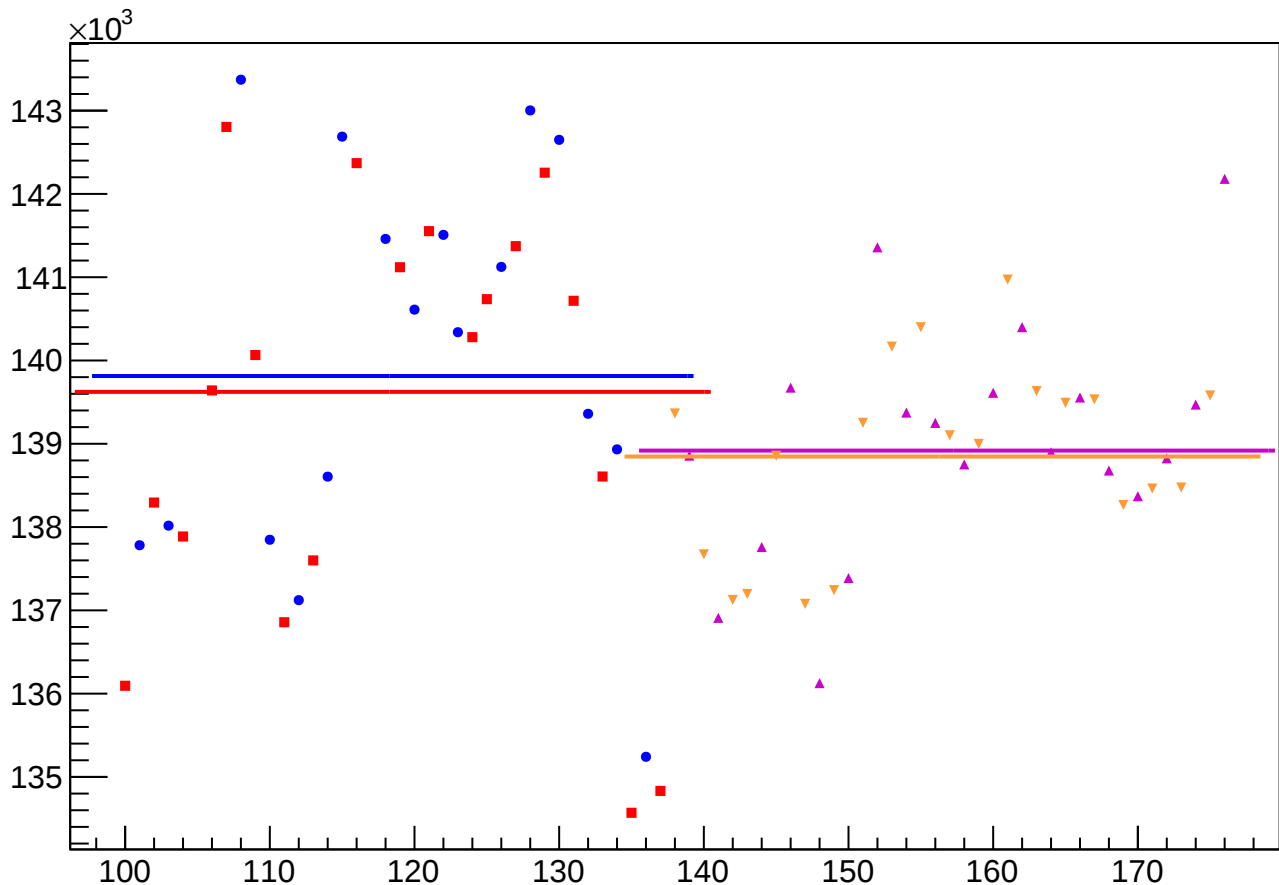
Right: 128.002 ± 0.026 $\chi^2/\text{NDF}: 2821400.9/35$

In: 166.273 ± 0.027 $\chi^2/\text{NDF}: 3606238.1/35$

Out: 160.250 ± 0.026 $\chi^2/\text{NDF}: 3804953.7/38$

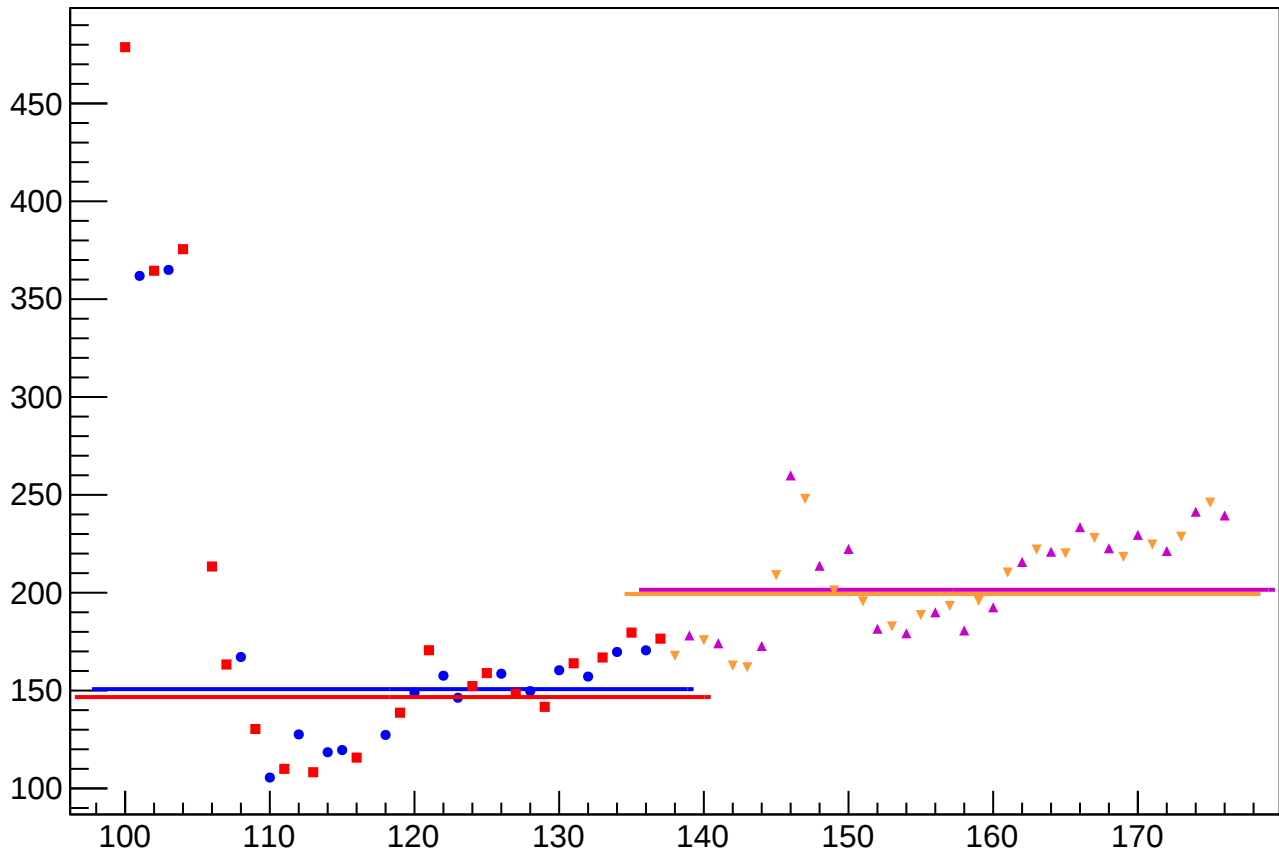
All: 163.108 ± 0.019 $\chi^2/\text{NDF}: 7437447.4/74$

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062 χ^2 /NDF: 1689865533.6/16
 Left Out: 138847.172 $\pm$ 0.052 χ^2 /NDF: 458076399.8/19
 Right Out: 139623.387 $\pm$ 0.059 χ^2 /NDF: 1505731109.1/18
 Left In: 138918.206 $\pm$ 0.054 χ^2 /NDF: 673503449.3/18
 Left: 138881.921 $\pm$ 0.037 χ^2 /NDF: 1132477379.3/3
 Right: 139713.961 $\pm$ 0.043 χ^2 /NDF: 3200544274.5/3
 In: 139301.668 $\pm$ 0.041 χ^2 /NDF: 2482937307.4/35
 Out: 139189.629 $\pm$ 0.039 χ^2 /NDF: 2060465906.5/3
 All: 139243.794 $\pm$ 0.028 χ^2 /NDF: 454735213

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733+/-0.044 χ^2/NDF : 1050071.6/16

Left Out: 199.331+/-0.037 χ^2/NDF : 441294.9/19

Right Out: 146.686+/-0.042 χ^2/NDF : 1203106.6/18

Left In: 201.502+/-0.038 χ^2/NDF : 445395.3/18

Left: 200.393+/-0.027 χ^2/NDF : 888367.2/38

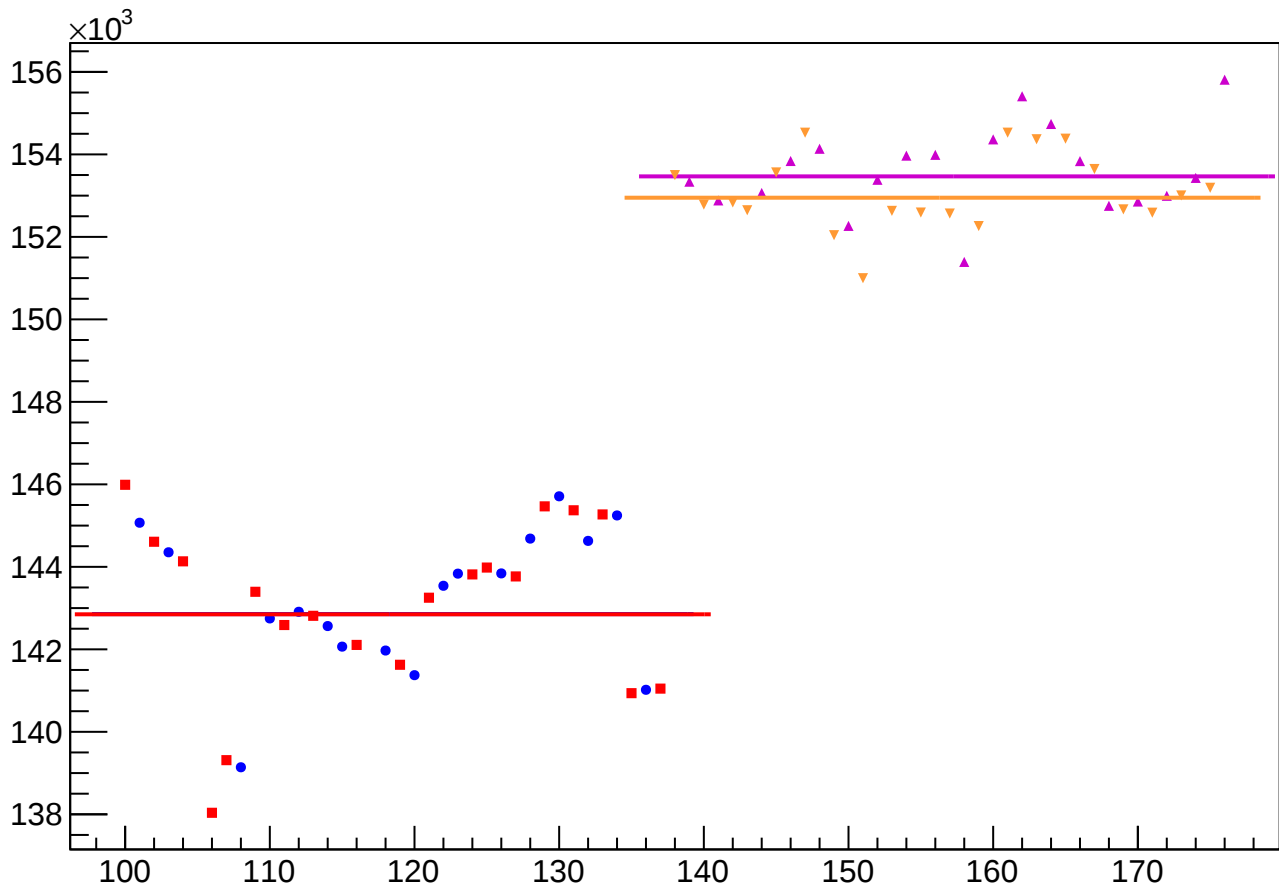
Right: 148.612+/-0.030 χ^2/NDF : 2257655.3/35

In: 179.761+/-0.029 χ^2/NDF : 2264167.6/35

Out: 176.105+/-0.028 χ^2/NDF : 2533656.1/38

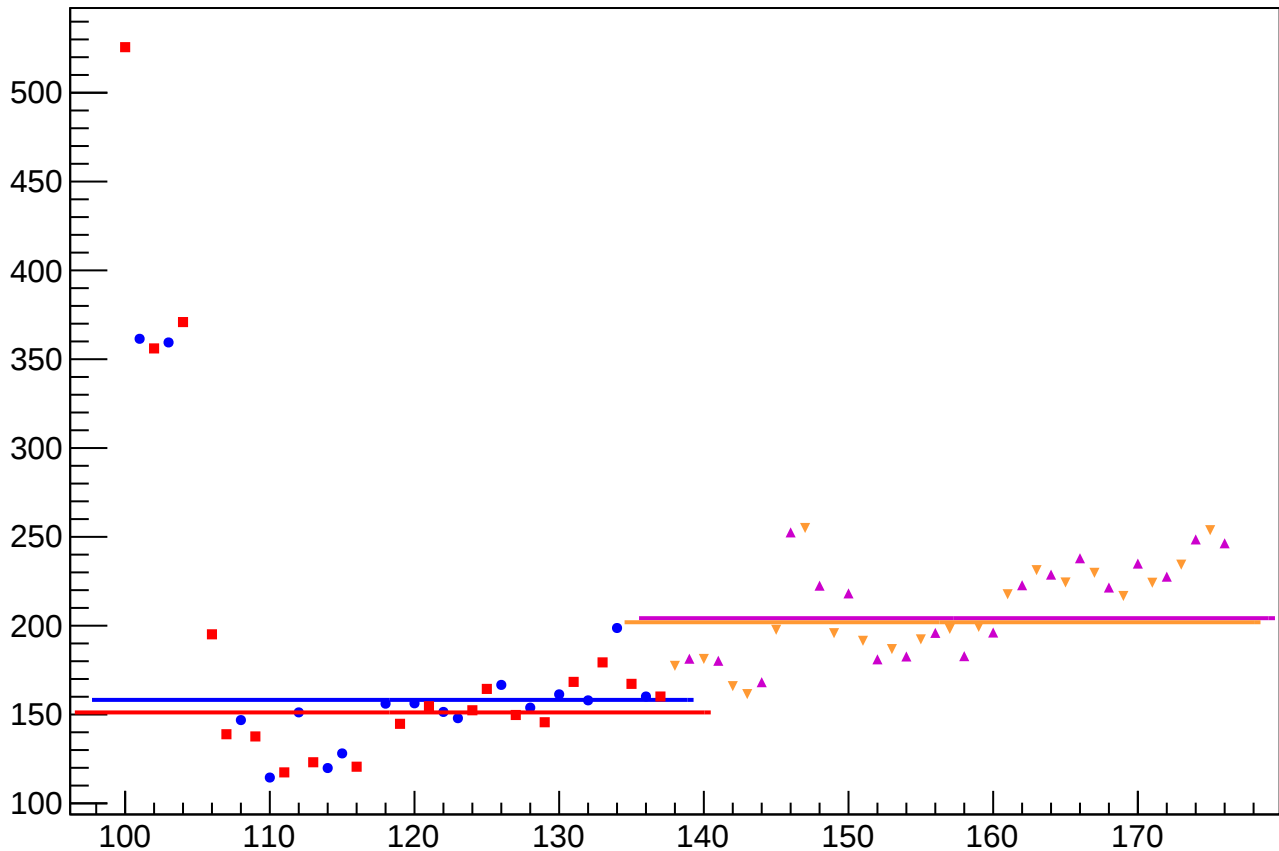
All: 177.872+/-0.020 χ^2/NDF : 4806237.0/74

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065	χ^2 /NDF: 740367386.5/16	Left: 153202.651 $\pm$ 0.038	χ^2 /NDF: 650957243.8/38
Left Out: 152949.852 $\pm$ 0.053	χ^2 /NDF: 263430997.2/19	Right: 142851.648 $\pm$ 0.044	χ^2 /NDF: 1590437268.8/38
Right Out: 142849.362 $\pm$ 0.060	χ^2 /NDF: 850066807.5/18	In: 149080.342 $\pm$ 0.042	χ^2 /NDF: 16884533322.0/38
Left In: 153467.120 $\pm$ 0.054	χ^2 /NDF: 341090301.6/18	Out: 148549.396 $\pm$ 0.040	χ^2 /NDF: 16897009514.1/38
		All: 148803.736 $\pm$ 0.029	χ^2 /NDF: 338665183.8/38

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 201.940+/-0.038 χ^2/NDF : 441112.1/19

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: 203.057+/-0.027 χ^2/NDF : 909261.2/38

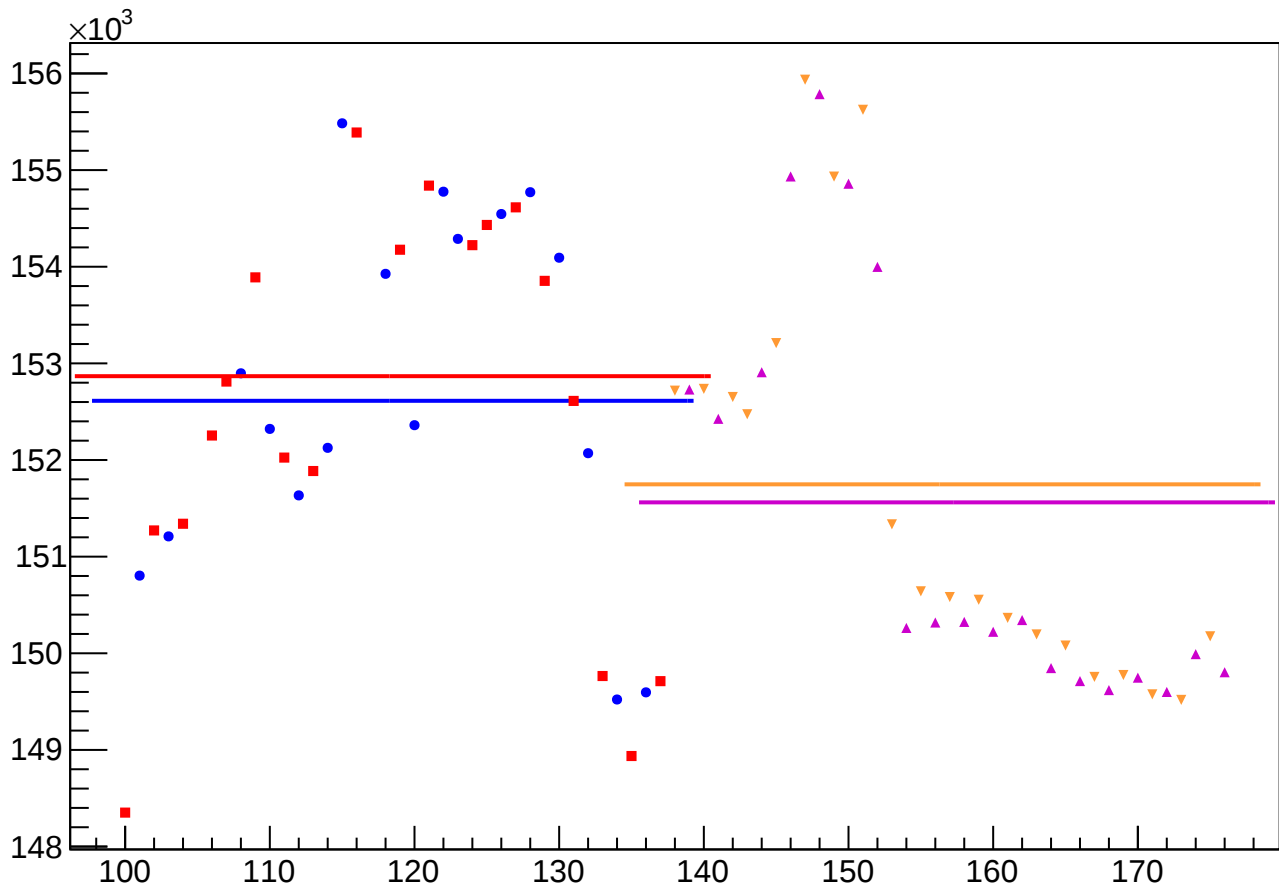
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 185.215+/-0.029 χ^2/NDF : 1943447.2/35

Out: 179.823+/-0.028 χ^2/NDF : 2241838.7/38

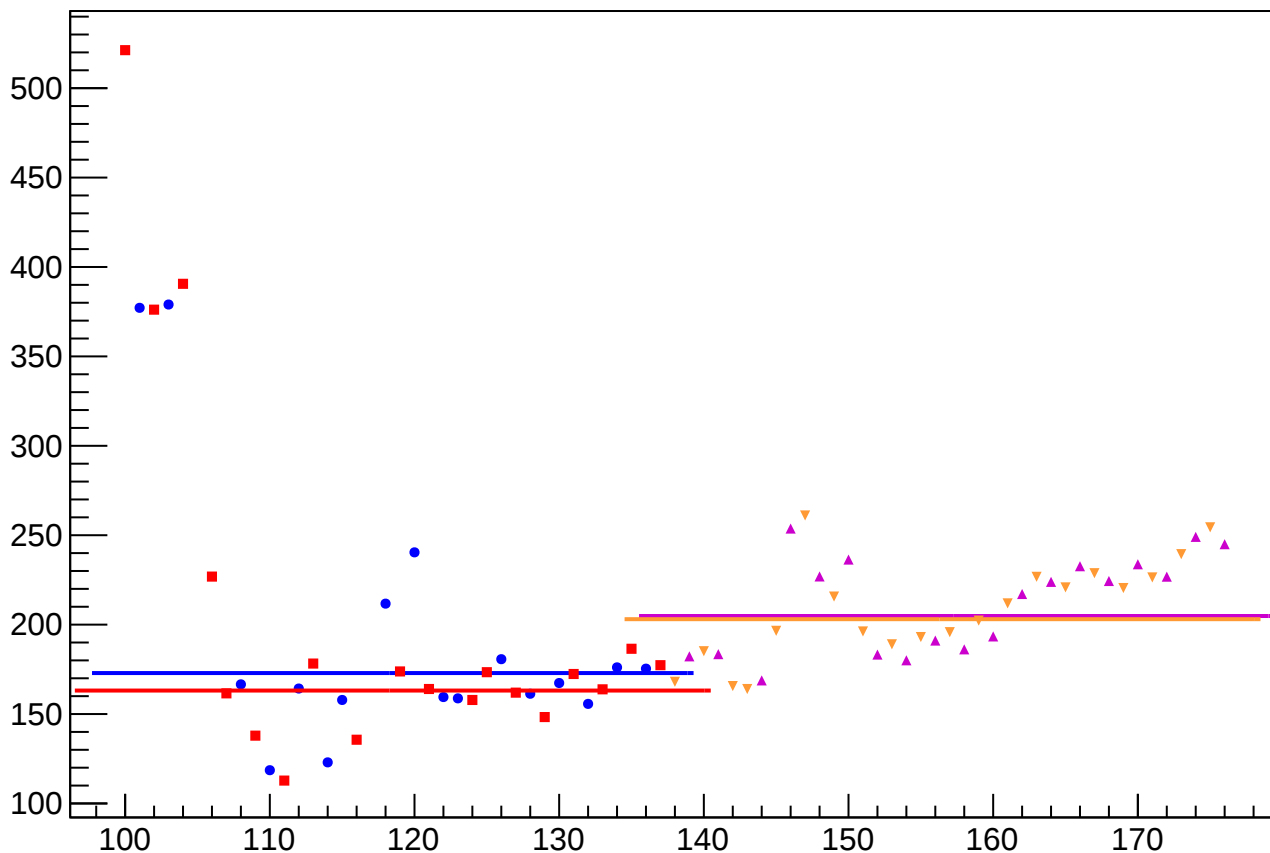
All: 182.406+/-0.020 χ^2/NDF : 4202812.5/74

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2 /NDF: 621416187.4/16	Left: 151656.924 $\pm$ 0.038	χ^2 /NDF: 2567227918.3/3
Left Out: 151748.276 $\pm$ 0.053	χ^2 /NDF: 1271539284.2/19	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: 152187.260 $\pm$ 0.041	χ^2 /NDF: 2164235693.2/3
		All: 152070.111 $\pm$ 0.030	χ^2 /NDF: 422740123

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 203.046+/-0.038 χ^2/NDF : 466793.5/19

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 204.824+/-0.038 χ^2/NDF : 471861.8/18

Left: 203.916+/-0.027 χ^2/NDF : 939748.6/38

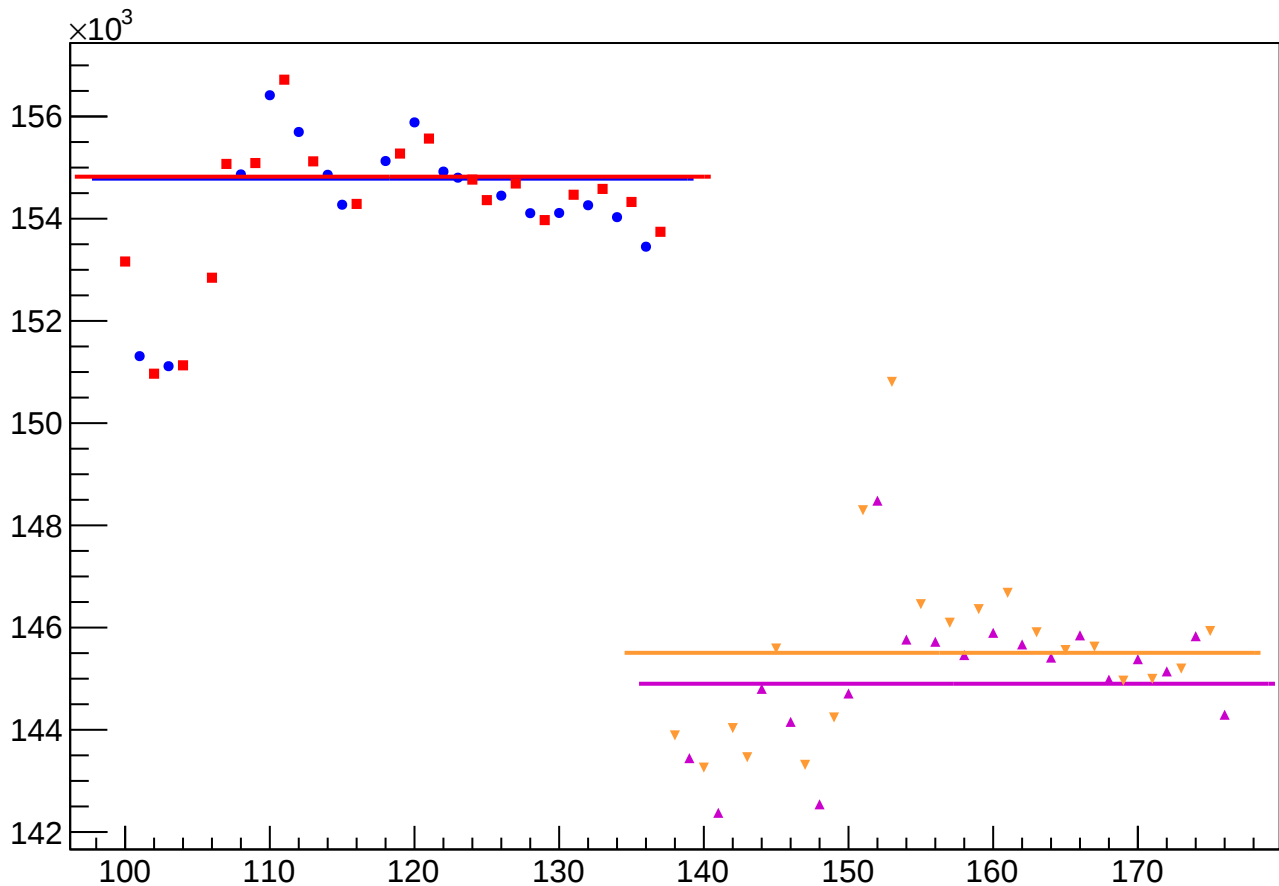
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 193.284+/-0.031 χ^2/NDF : 1663302.1/35

Out: 187.393+/-0.029 χ^2/NDF : 1942070.5/38

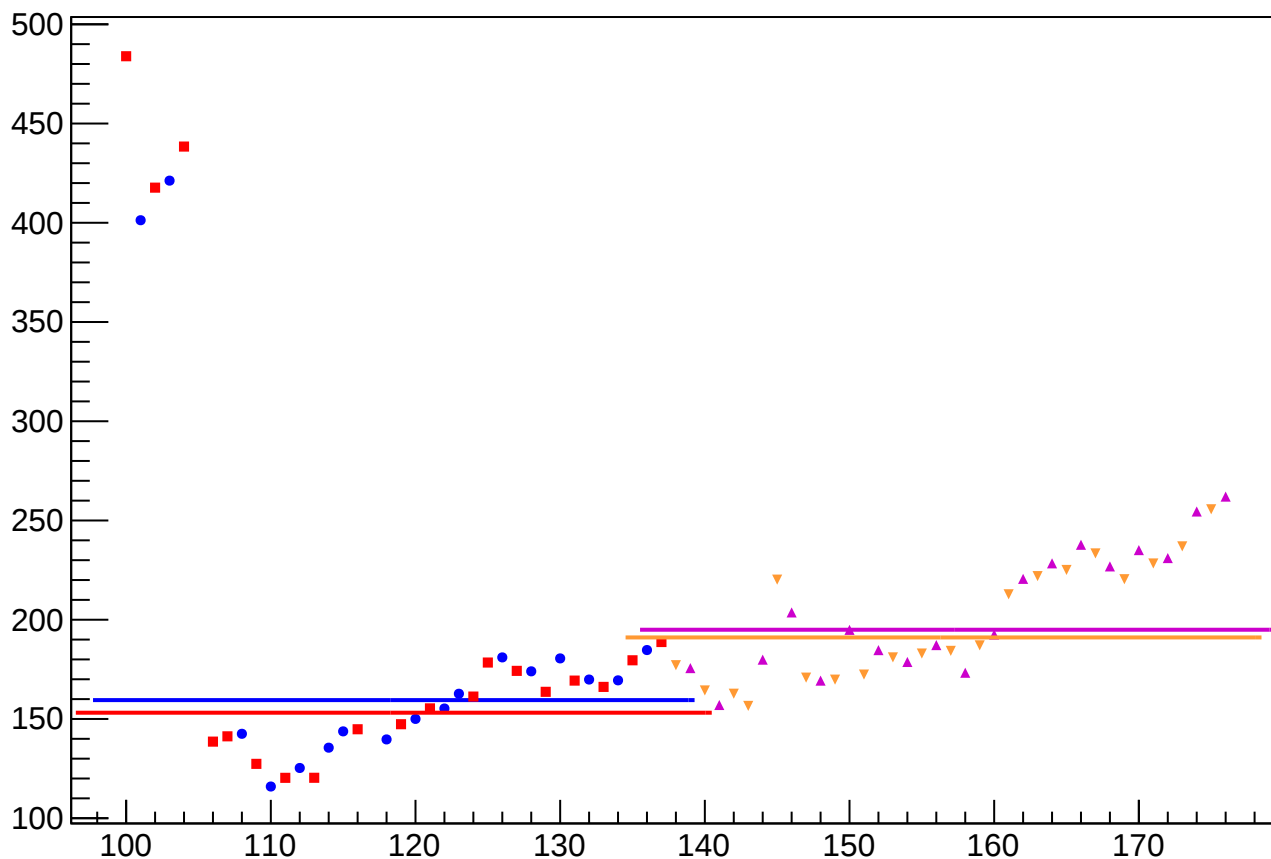
All: 190.204+/-0.021 χ^2/NDF : 3624634.5/74

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944+/-0.065 χ^2/NDF : 265581398.0/16
 Left Out: 145506.176+/-0.050 χ^2/NDF : 1494728979.5/19
 Right Out: 154822.113+/-0.061 χ^2/NDF : 293850525.9/18
 Left In: 144901.088+/-0.052 χ^2/NDF : 840845896.6/18
 Left: 145213.245+/-0.036 χ^2/NDF : 2406238666.9/3
 Right: 154804.381+/-0.045 χ^2/NDF : 559614489.4/3
 In: 148704.261+/-0.041 χ^2/NDF : 15167991658.5/3
 Out: 149265.637+/-0.039 χ^2/NDF : 15751156813.8
 All: 148998.199+/-0.028 χ^2/NDF : 310194984

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2 /NDF: 1131844.5/16

Left Out: 191.077 $\pm$ 0.035 χ^2 /NDF: 594945.1/19

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: 192.956 $\pm$ 0.025 χ^2 /NDF: 1184384.8/38

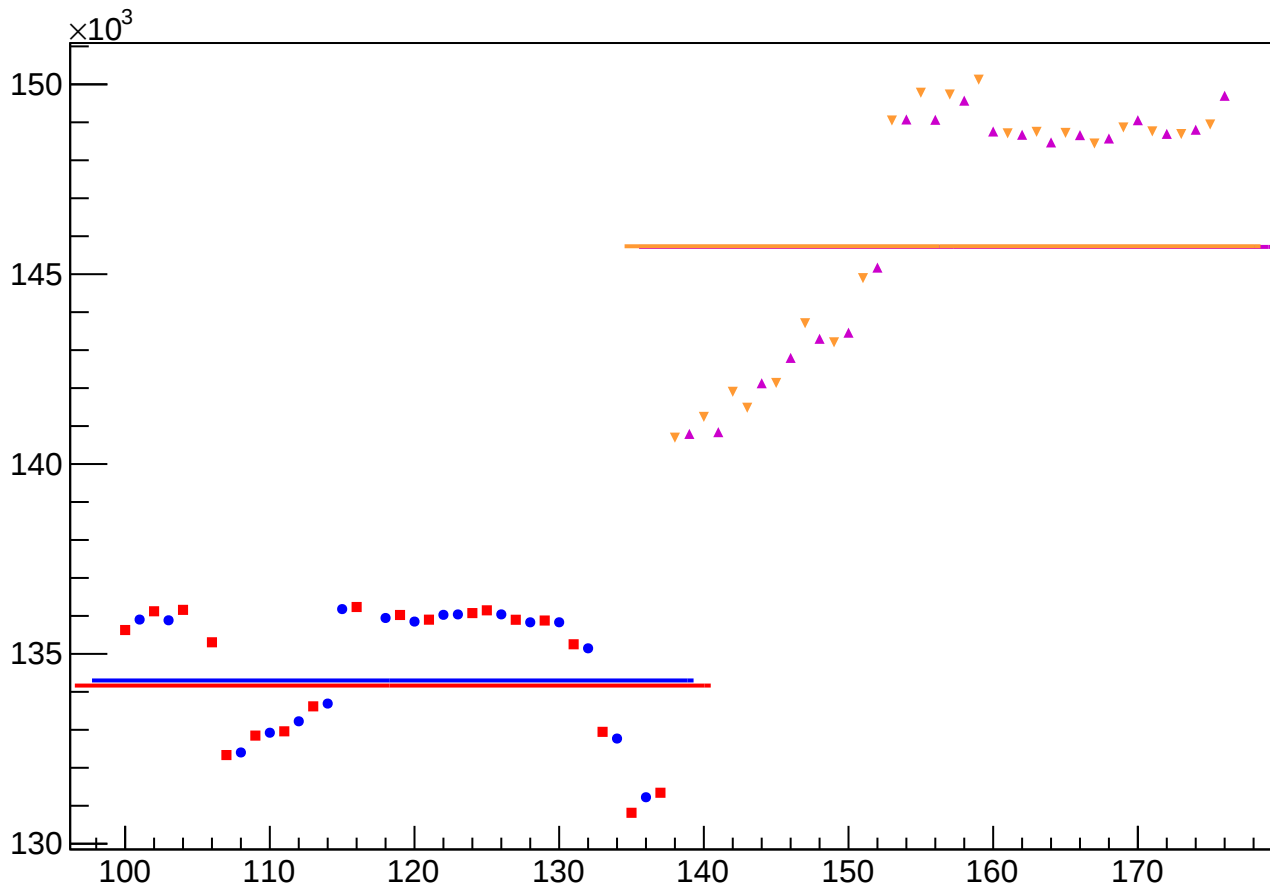
Right: 156.104 $\pm$ 0.032 χ^2 /NDF: 2315690.5/35

In: 181.314 $\pm$ 0.029 χ^2 /NDF: 2077406.8/35

Out: 175.773 $\pm$ 0.027 χ^2 /NDF: 2231455.6/38

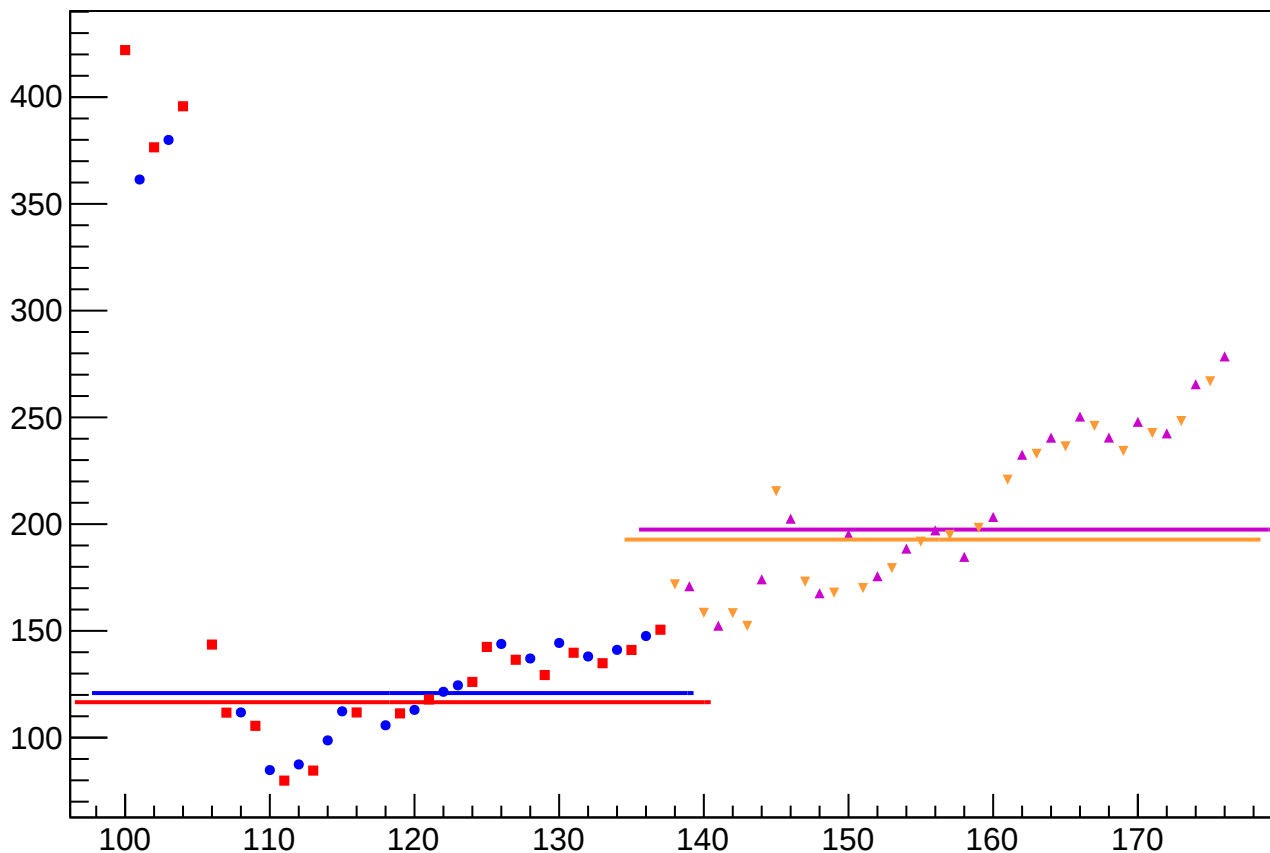
All: 178.413 $\pm$ 0.020 χ^2 /NDF: 4328416.1/74

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025+/-0.050	χ^2/NDF : 1149581803.2/16	Left: 145727.175+/-0.037	χ^2/NDF : 8916637886.0/3
Left Out: 145735.327+/-0.051	χ^2/NDF : 4780918464.9/19	Right: 134228.768+/-0.035	χ^2/NDF : 2364832007.2/3
Right Out: 134165.615+/-0.047	χ^2/NDF : 1211471052.4/18	In: 139758.717+/-0.036	χ^2/NDF : 29879248954.3/3
Left In: 145718.417+/-0.053	χ^2/NDF : 4135665893.3/18	Out: 139555.065+/-0.035	χ^2/NDF : 33753275655.0/3
		All: 139651.928+/-0.025	χ^2/NDF : 636489657.0/3

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2 /NDF: 1463728.4/16

Left Out: 192.768 $\pm$ 0.036 χ^2 /NDF: 835136.1/19

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: 195.021 $\pm$ 0.026 χ^2 /NDF: 1651066.2/38

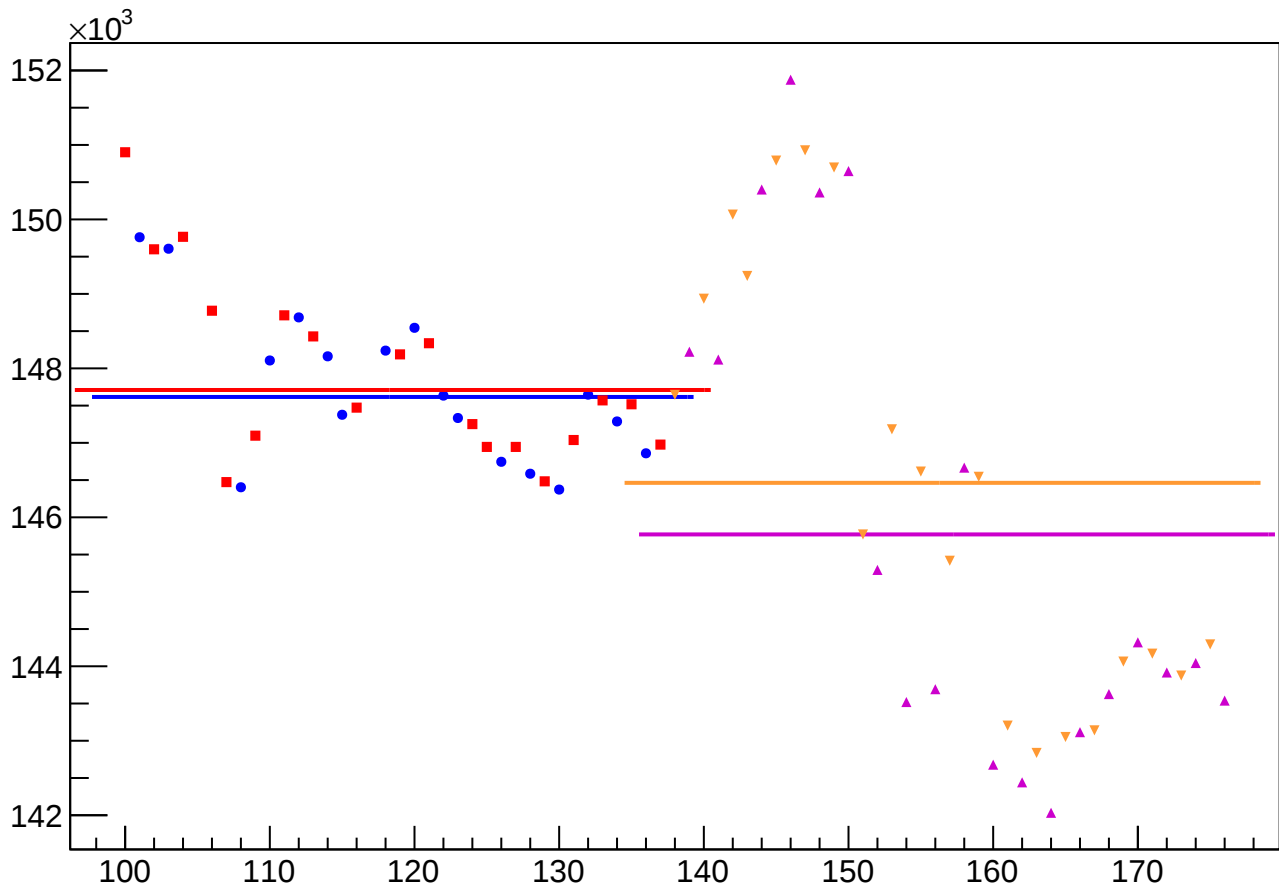
Right: 118.605 $\pm$ 0.024 χ^2 /NDF: 3012723.0/35

In: 157.477 $\pm$ 0.026 χ^2 /NDF: 4483330.3/35

Out: 152.078 $\pm$ 0.024 χ^2 /NDF: 4783171.3/38

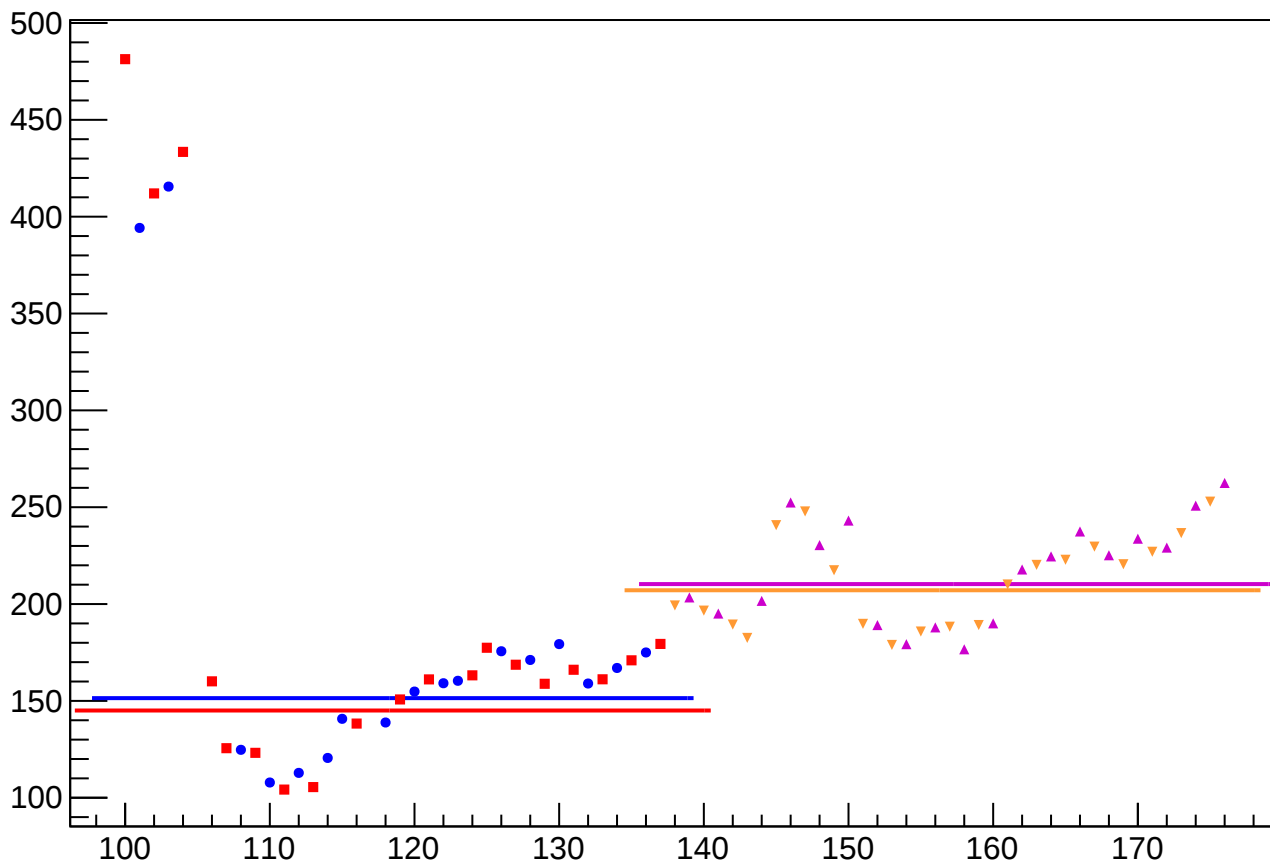
All: 154.646 $\pm$ 0.018 χ^2 /NDF: 9289614.2/74

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150+/-0.062	χ^2/NDF : 199263428.7/16	Left: 146126.473+/-0.039	χ^2/NDF : 5286255444.7/3
Left Out: 146463.033+/-0.054	χ^2/NDF : 2309277446.9/19	Right: 147666.153+/-0.043	χ^2/NDF : 404368550.3/3
Right Out: 147709.723+/-0.058	χ^2/NDF : 203906685.9/18	In: 146586.903+/-0.042	χ^2/NDF : 3583198615.7/3
Left In: 145770.484+/-0.056	χ^2/NDF : 2897368924.4/18	Out: 147039.693+/-0.040	χ^2/NDF : 2758727547.5/3
		All: 146823.822+/-0.029	χ^2/NDF : 64040423

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 207.119+/-0.038 χ^2/NDF : 336539.9/19

Right Out: 145.039+/-0.041 χ^2/NDF : 1375972.0/18

Left In: 210.311+/-0.039 χ^2/NDF : 420647.8/18

Left: 208.670+/-0.027 χ^2/NDF : 760570.5/38

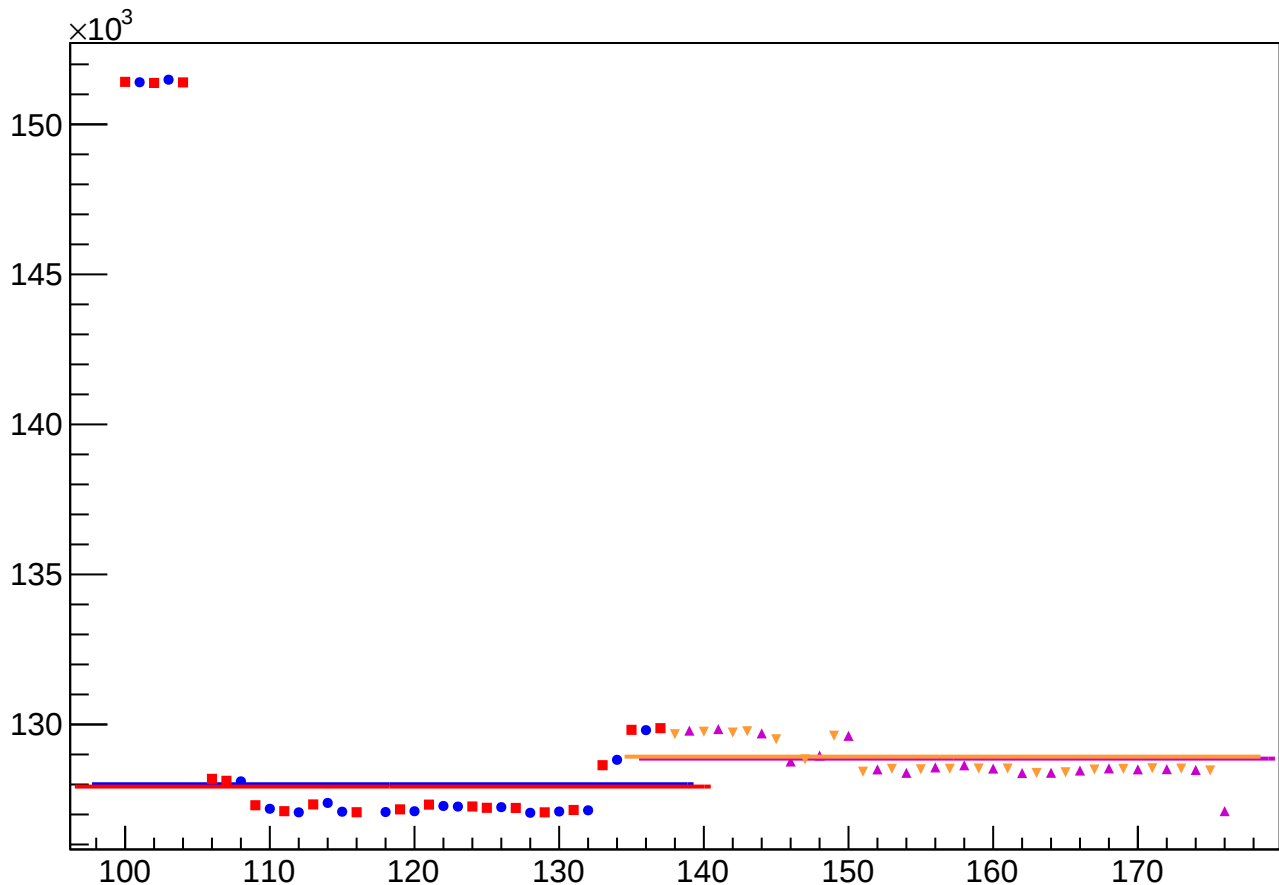
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 184.263+/-0.029 χ^2/NDF : 2669117.2/35

Out: 178.404+/-0.028 χ^2/NDF : 2930215.2/38

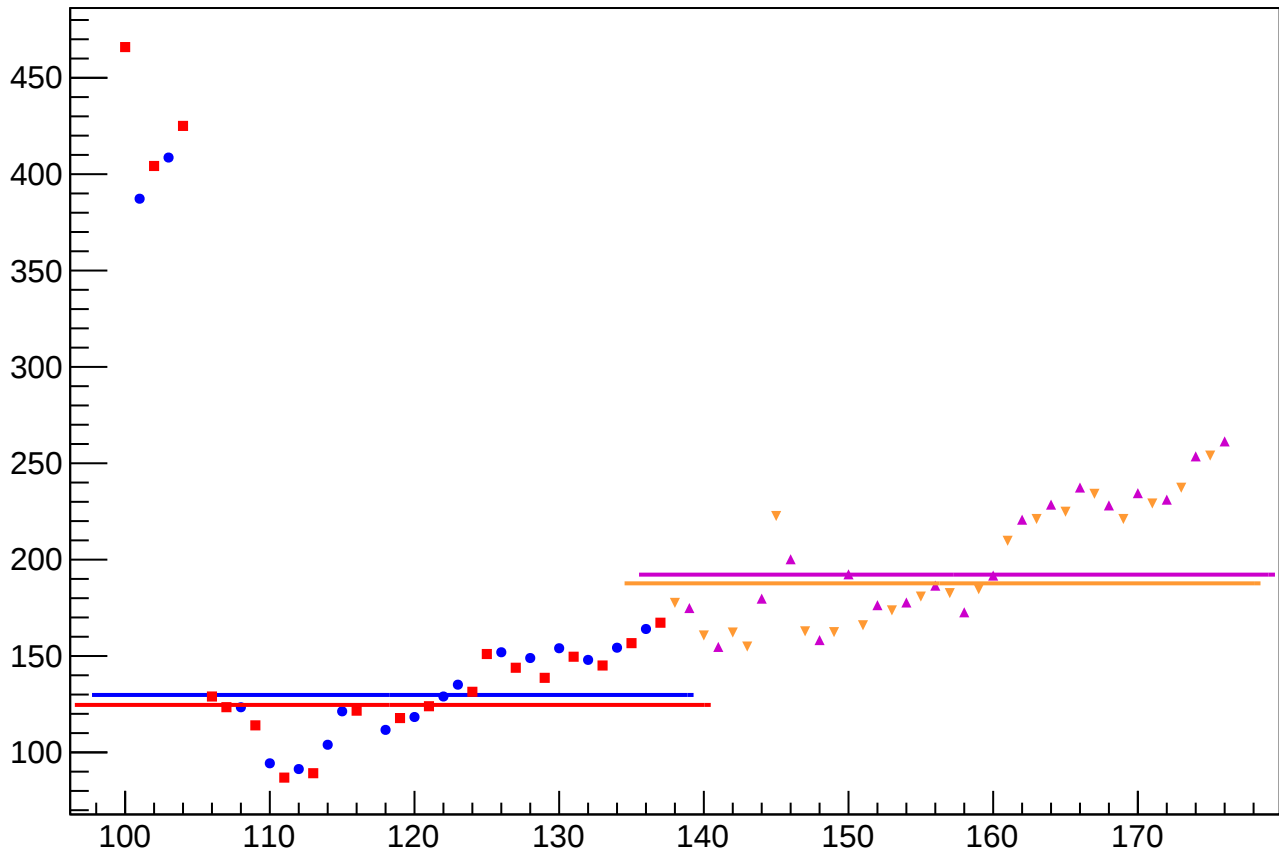
All: 181.197+/-0.020 χ^2/NDF : 5620133.0/74

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128928.130 $\pm$ 0.049 χ^2 /NDF: 129256359.0/19
 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: 128896.274 $\pm$ 0.035 χ^2 /NDF: 277886429.5/38
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/38
 In: 128459.620 $\pm$ 0.037 χ^2 /NDF: 4599495908.8/38
 Out: 128440.577 $\pm$ 0.035 χ^2 /NDF: 4098127068.1/38
 All: 128449.592 $\pm$ 0.026 χ^2 /NDF: 869776143.0/76

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 187.701 $\pm$ 0.035 χ^2 /NDF: 691078.3/19

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: 189.880 $\pm$ 0.025 χ^2 /NDF: 1357599.7/38

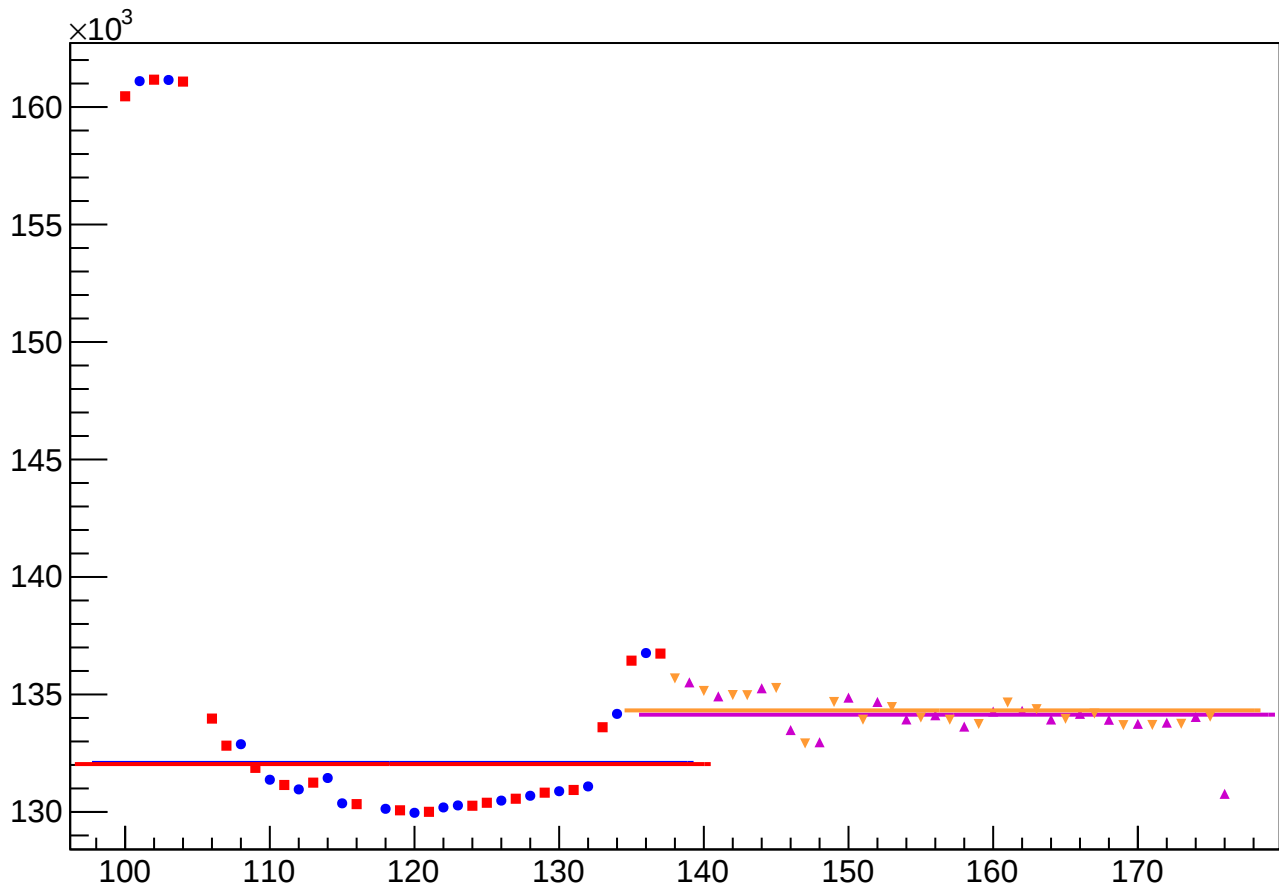
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 162.830 $\pm$ 0.026 χ^2 /NDF: 3551628.8/35

Out: 156.886 $\pm$ 0.025 χ^2 /NDF: 3826309.1/38

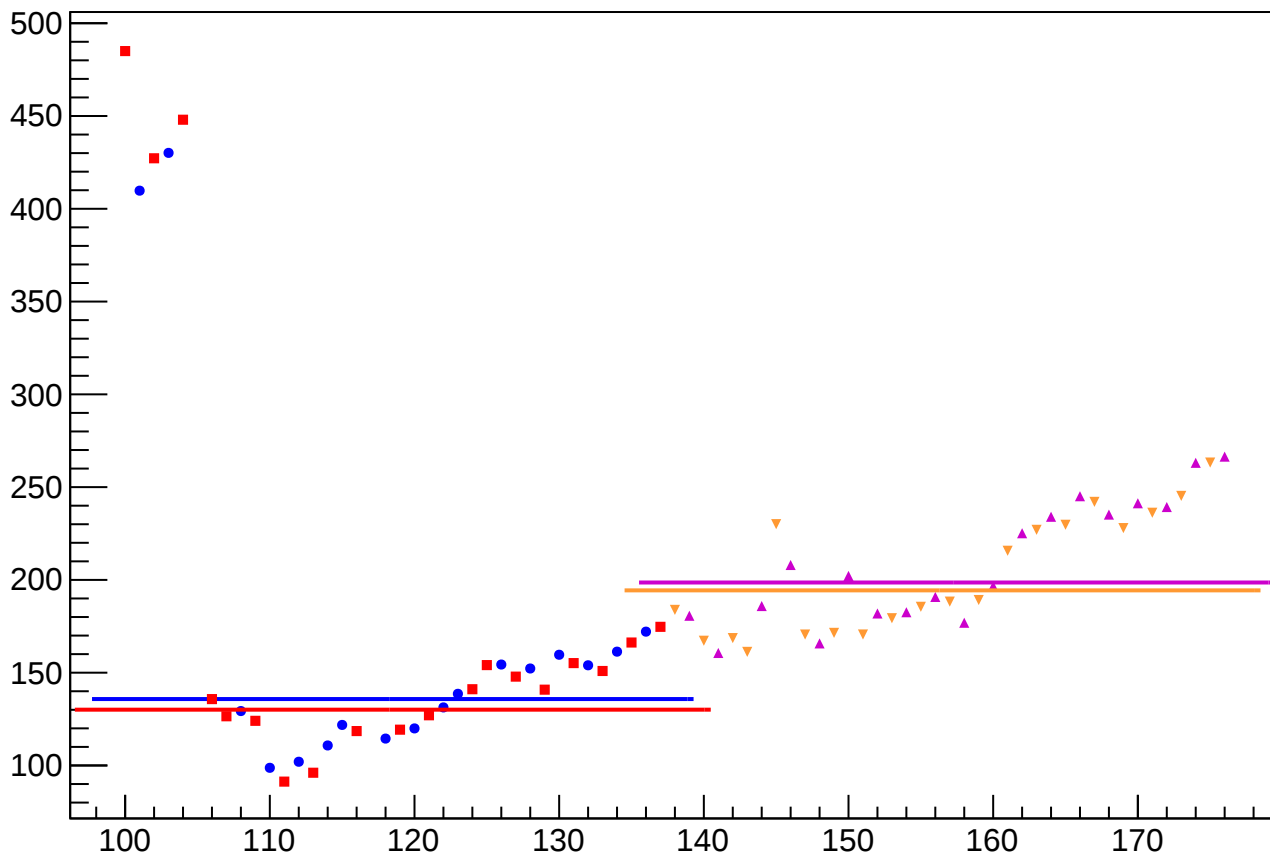
All: 159.700 $\pm$ 0.018 χ^2 /NDF: 7404914.7/74

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794+/-0.057	χ^2/NDF : 6733230928.7/16	Left: 134234.117+/-0.037	χ^2/NDF : 474817964.2/30
Left Out: 134321.854+/-0.051	χ^2/NDF : 182152135.3/19	Right: 132060.364+/-0.038	χ^2/NDF : 12615754245.1/30
Right Out: 132037.539+/-0.053	χ^2/NDF : 5882115872.9/18	In: 133184.684+/-0.039	χ^2/NDF : 7725345628.8/30
Left In: 134140.197+/-0.053	χ^2/NDF : 286530429.7/18	Out: 133214.163+/-0.037	χ^2/NDF : 7038327705.1/30
		All: 133200.200+/-0.027	χ^2/NDF : 147639805.1/30

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 +/- 0.040 χ^2/NDF : 1441904.9/16

Left Out: 194.364 +/- 0.036 χ^2/NDF : 658494.8/19

Right Out: 130.070 +/- 0.037 χ^2/NDF : 1503997.6/18

Left In: 198.603 +/- 0.037 χ^2/NDF : 636112.9/18

Left: 196.411 +/- 0.026 χ^2/NDF : 1301289.8/38

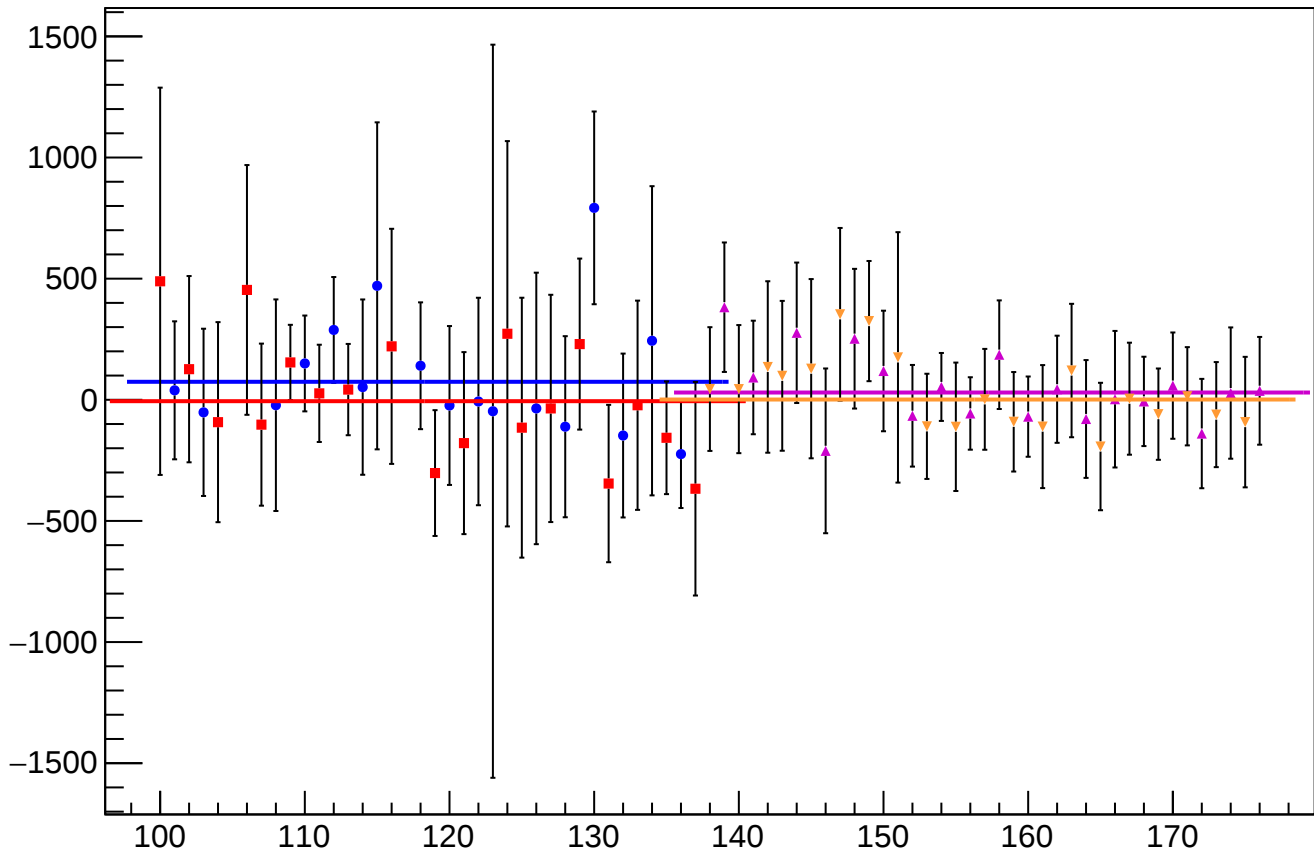
Right: 132.723 +/- 0.027 χ^2/NDF : 2956918.0/35

In: 169.377 +/- 0.027 χ^2/NDF : 3398212.7/35

Out: 163.187 +/- 0.026 χ^2/NDF : 3705774.0/38

All: 166.119 +/- 0.019 χ^2/NDF : 7131116.7/74

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: 1.098+/-56.353 χ^2/NDF : 5.1/19

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: 17.443+/-37.162 χ^2/NDF : 11.2/38

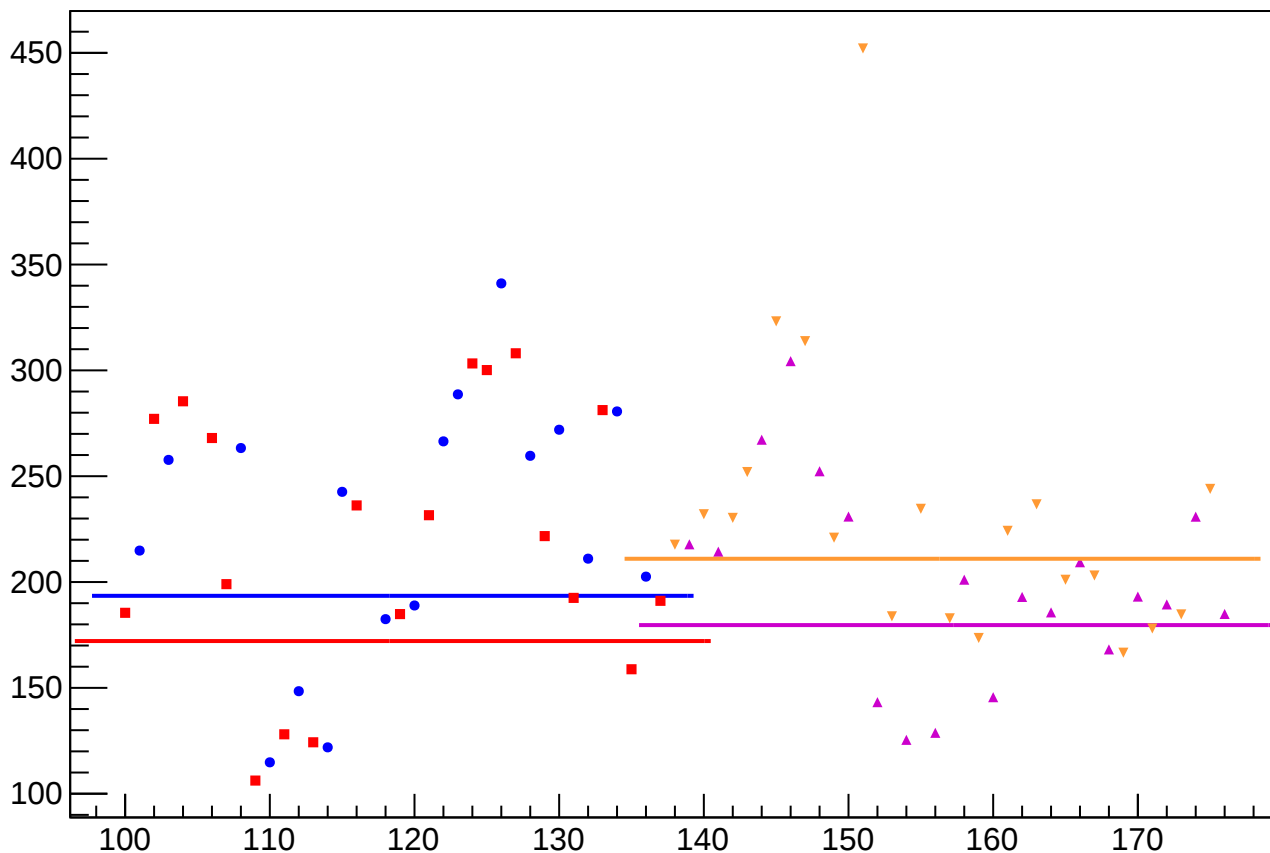
Right: 29.490+/-52.426 χ^2/NDF : 15.4/35

In: 42.474+/-41.909 χ^2/NDF : 13.9/35

Out: -1.588+/-43.913 χ^2/NDF : 12.2/38

All: 21.472+/-30.318 χ^2/NDF : 26.7/74

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 $\pm$ 0.056 χ^2/NDF : 1017195.7/16

Left Out: 210.997 $\pm$ 0.040 χ^2/NDF :1245063.3/19

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: 193.288 $\pm$ 0.026 χ^2/NDF : 3158764.8/38

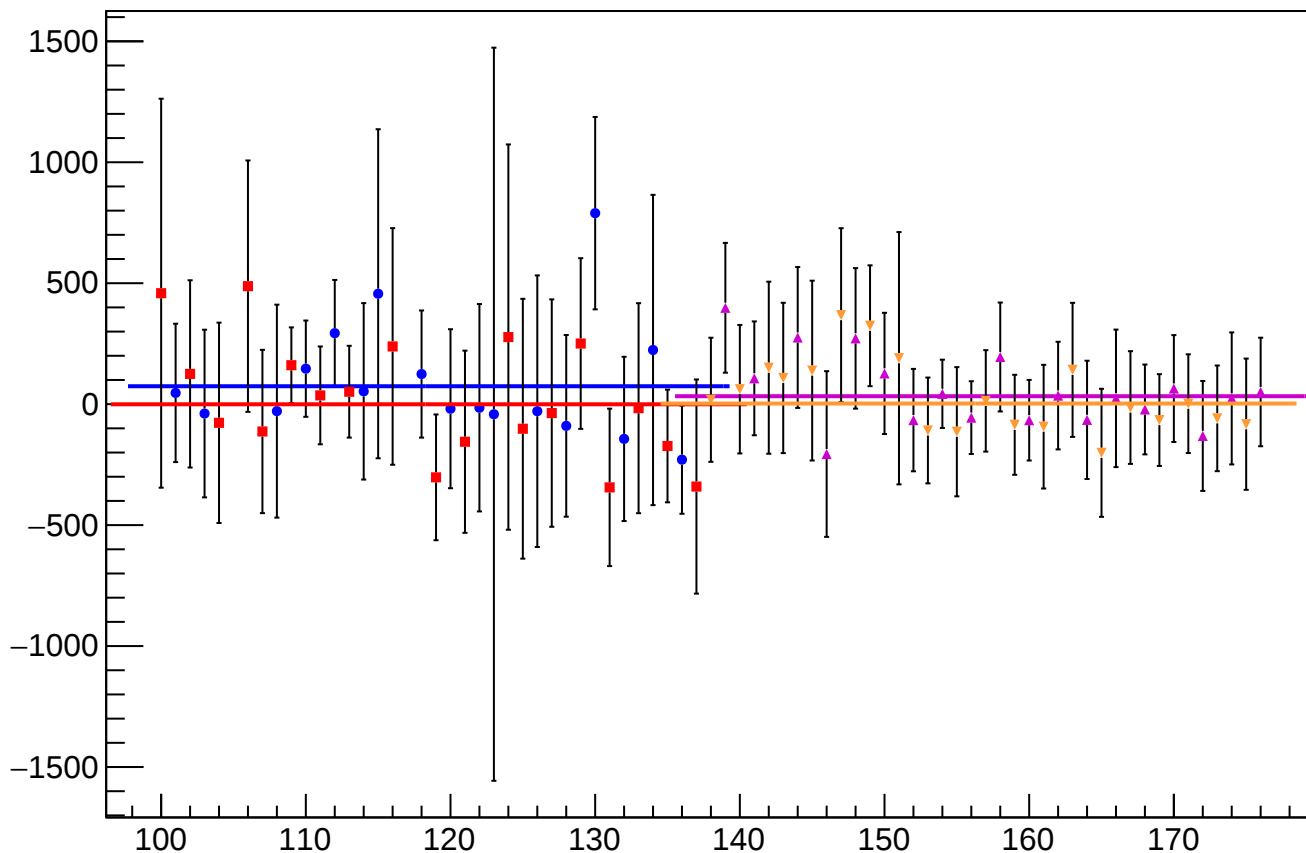
Right: 181.527 $\pm$ 0.037 χ^2/NDF : 2678891.2/35

In: 183.550 $\pm$ 0.030 χ^2/NDF :2625418.7/35

Out: 195.728 $\pm$ 0.031 χ^2/NDF :3198725.5/38

All: 189.355 $\pm$ 0.021 χ^2/NDF : 5904642.9/74

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 2.645 $\pm$ 56.726 χ^2 /NDF:5.2/19

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: 19.709 $\pm$ 37.404 χ^2 /NDF: 11.6/38

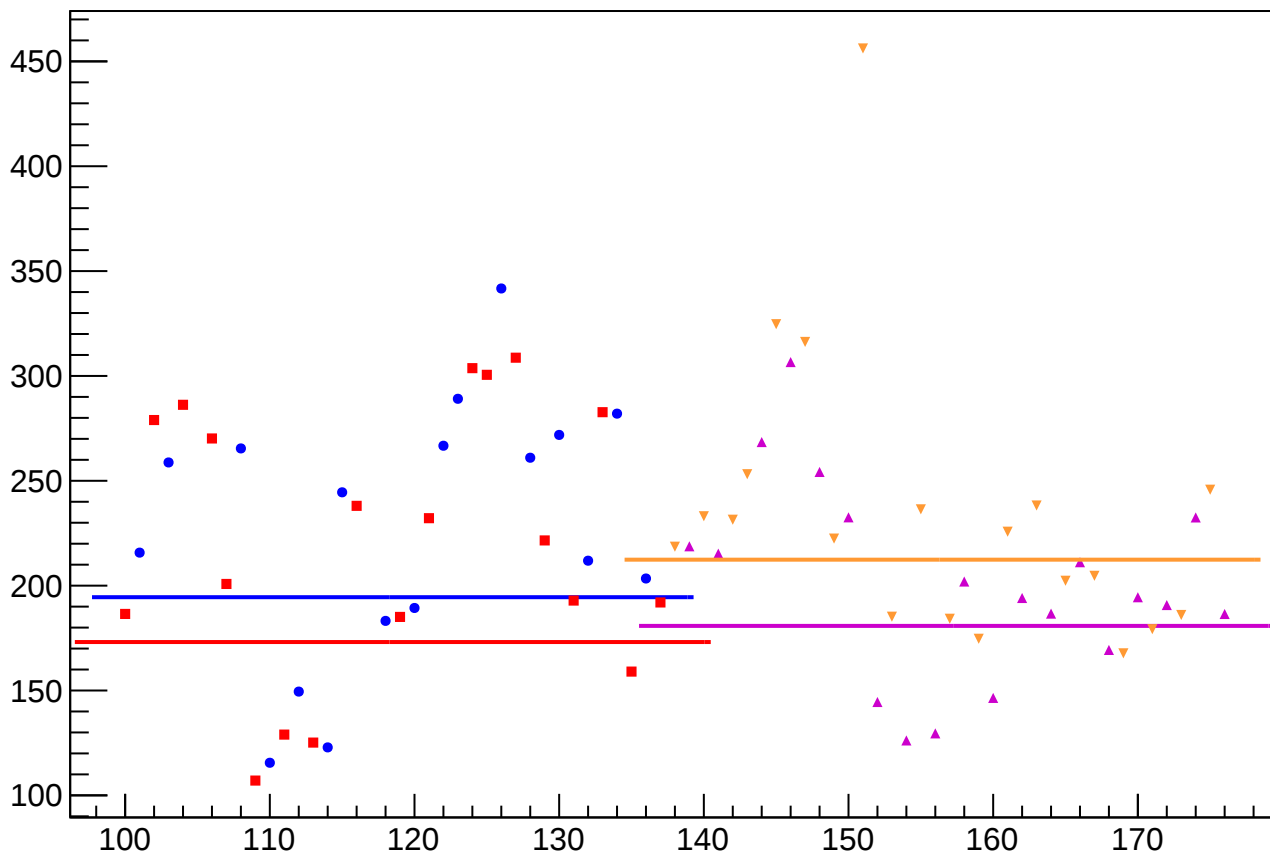
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 44.467 $\pm$ 42.160 χ^2 /NDF:13.9/35

Out: 1.407 $\pm$ 44.180 χ^2 /NDF:12.5/38

All: 23.944 $\pm$ 30.501 χ^2 /NDF: 27.0/74

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 ± 0.056 $\chi^2/\text{NDF}: 1008514.7/16$

Left Out: 212.390 ± 0.040 $\chi^2/\text{NDF}: 1243948.2/19$

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: 194.541 ± 0.026 $\chi^2/\text{NDF}: 3157911.7/38$

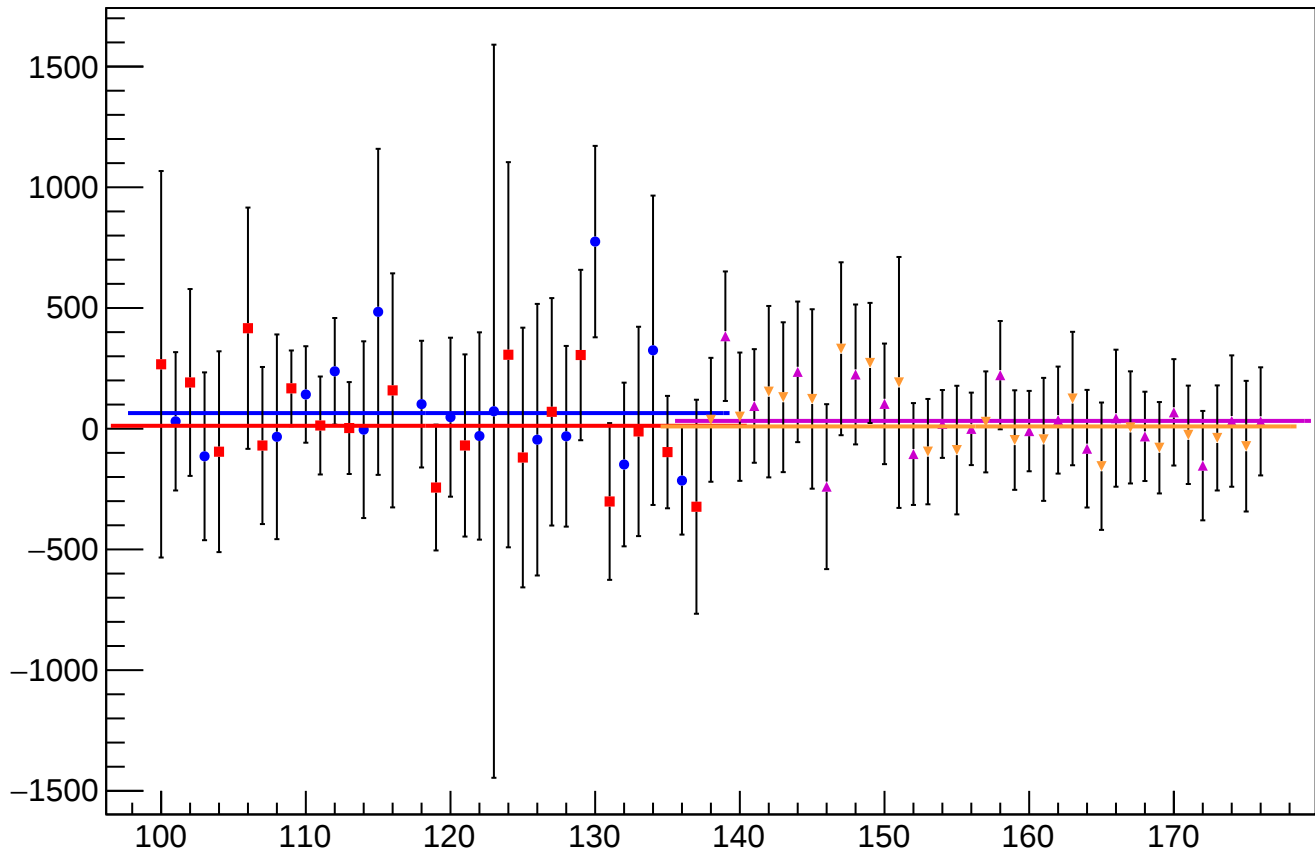
Right: 182.529 ± 0.037 $\chi^2/\text{NDF}: 2657073.5/35$

In: 184.670 ± 0.030 $\chi^2/\text{NDF}: 2614833.5/35$

Out: 196.937 ± 0.031 $\chi^2/\text{NDF}: 3188571.3/38$

All: 190.516 ± 0.022 $\chi^2/\text{NDF}: 5884103.9/74$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 9.441+/-56.592 χ^2/NDF : 3.9/19

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: 22.415+/-37.311 χ^2/NDF : 9.7/38

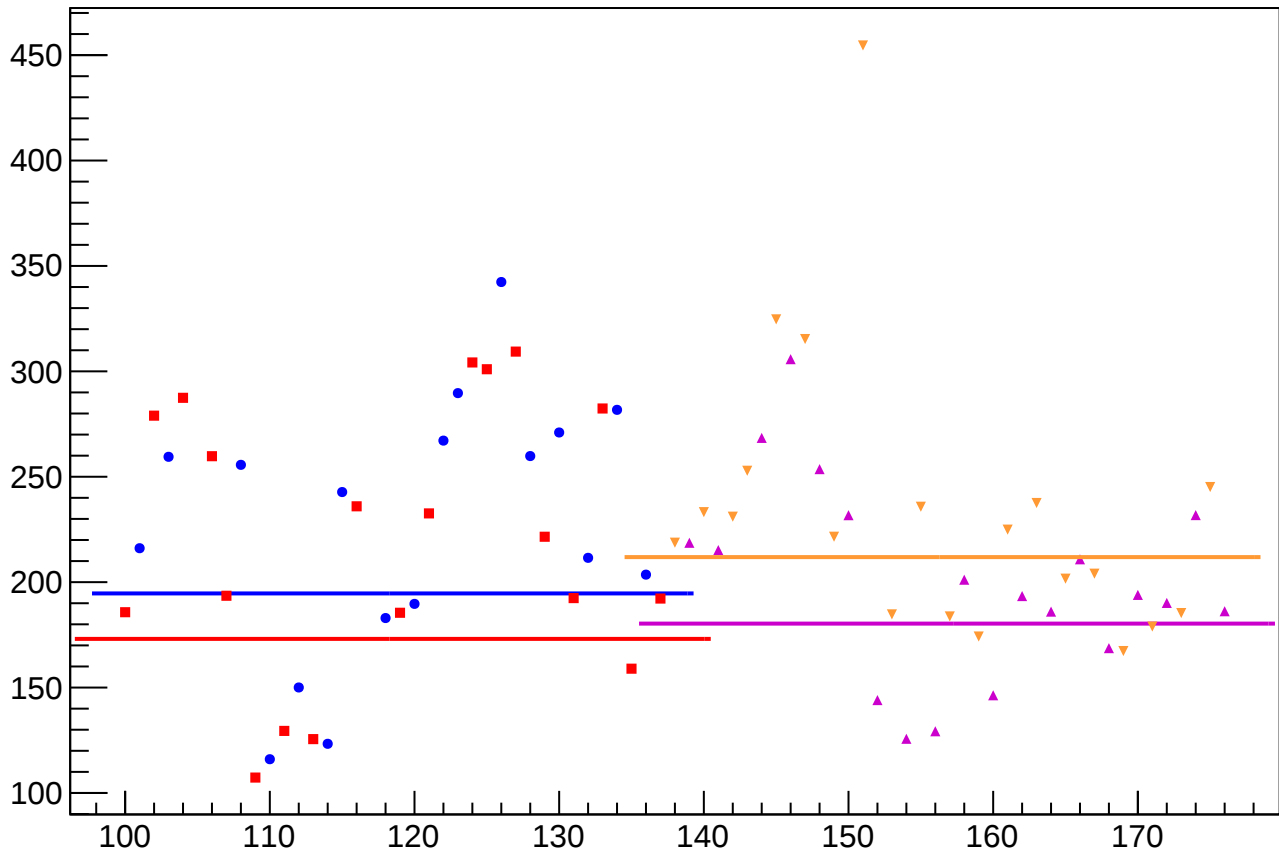
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 41.476+/-42.081 χ^2/NDF : 12.9/35

Out: 10.483+/-44.098 χ^2/NDF : 9.7/38

All: 26.705+/-30.444 χ^2/NDF : 22.9/74

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 ± 0.056 $\chi^2/\text{NDF}: 986798.9/16$

Left Out: 211.881 ± 0.040 $\chi^2/\text{NDF}: 1246109.6/19$

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: 194.049 ± 0.026 $\chi^2/\text{NDF}: 3164518.8/38$

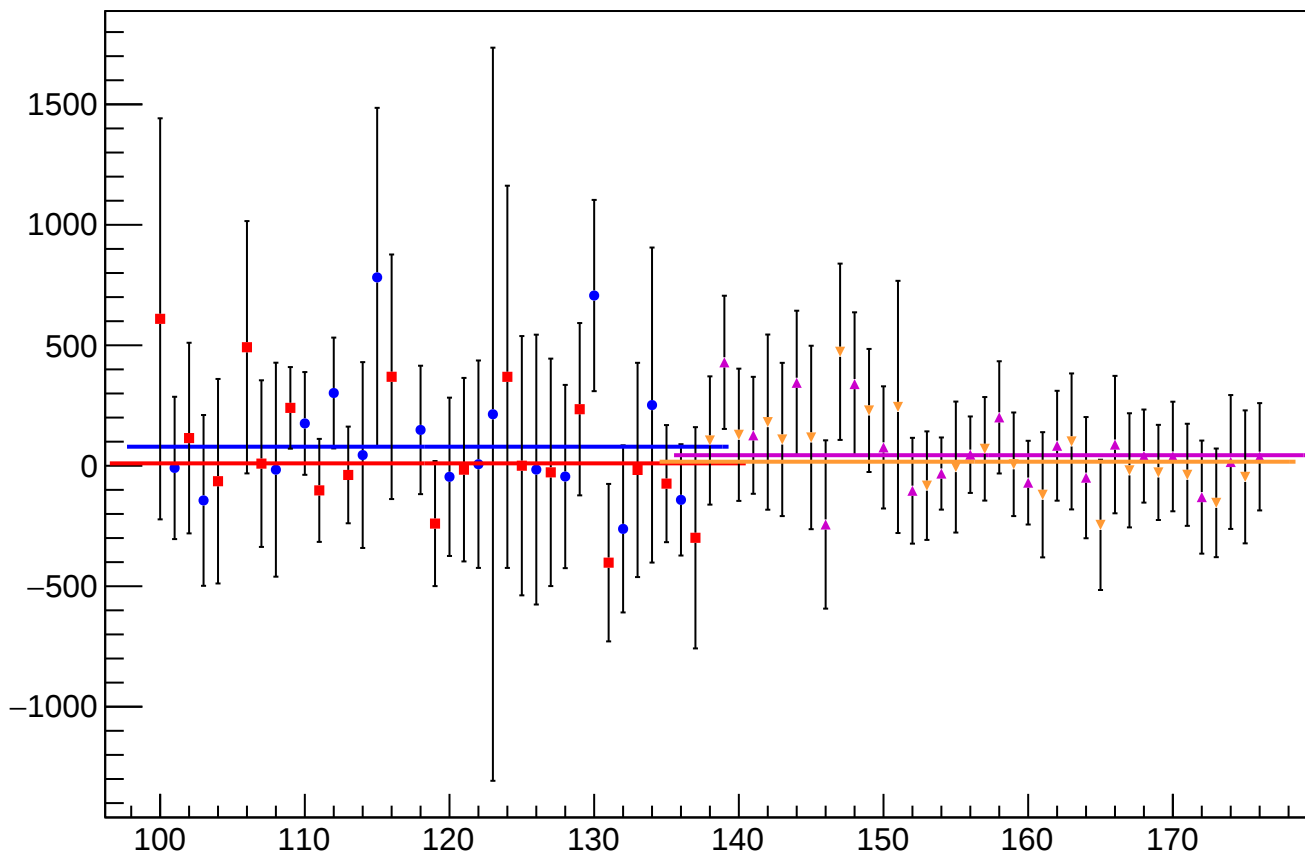
Right: 182.574 ± 0.037 $\chi^2/\text{NDF}: 2613964.4/35$

In: 184.359 ± 0.030 $\chi^2/\text{NDF}: 2600705.7/35$

Out: 196.643 ± 0.031 $\chi^2/\text{NDF}: 3159776.8/38$

All: 190.213 ± 0.022 $\chi^2/\text{NDF}: 5841711.9/74$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128+/-81.874 χ^2/NDF : 7.5/16

Left Out: 16.866+/-58.287 χ^2/NDF : 5.4/19

Right Out: 9.982+/-73.310 χ^2/NDF : 7.9/18

Left In: 43.841+/-51.460 χ^2/NDF : 7.1/18

Left: 32.025+/-38.577 χ^2/NDF : 12.6/38

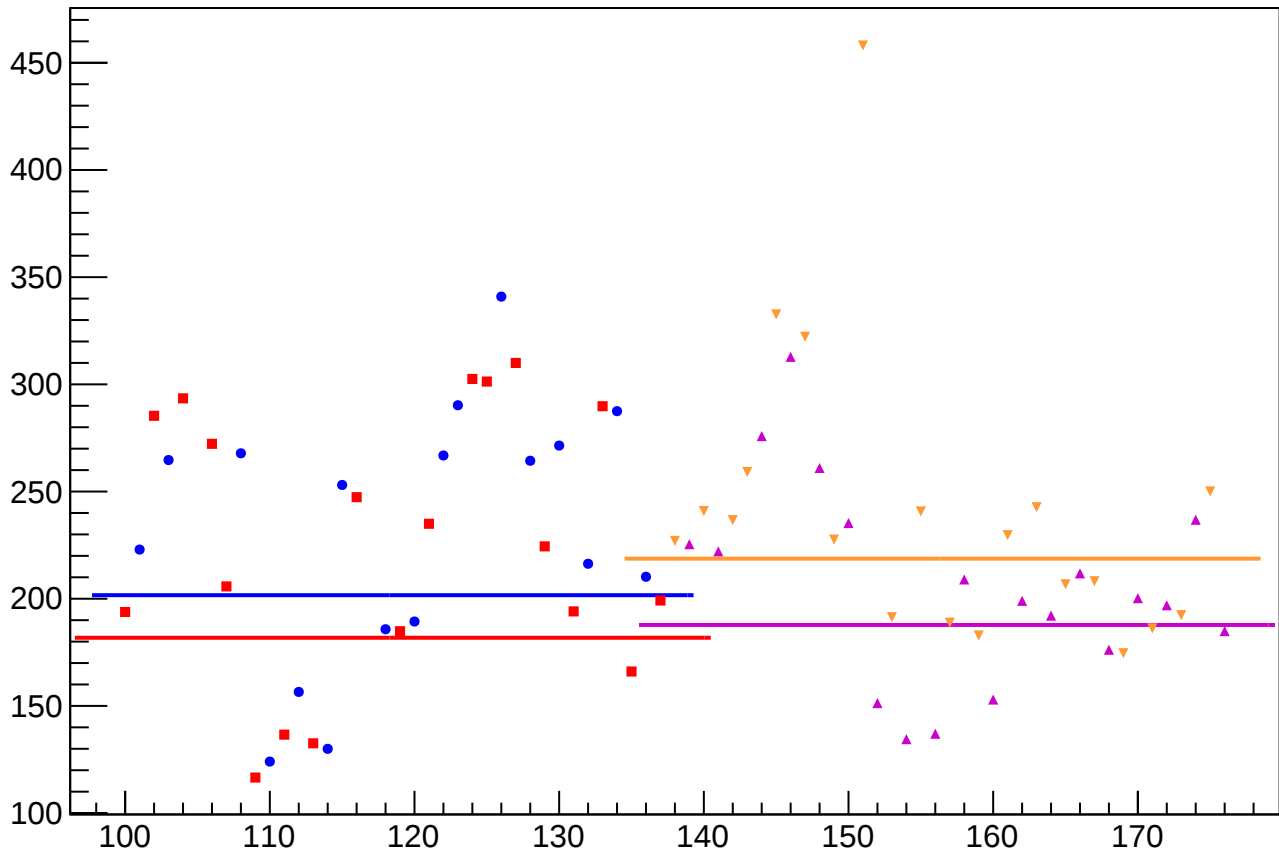
Right: 40.751+/-54.616 χ^2/NDF : 15.8/35

In: 53.834+/-43.569 χ^2/NDF : 14.7/35

Out: 14.200+/-45.624 χ^2/NDF : 13.3/38

All: 34.929+/-31.509 χ^2/NDF : 28.4/74

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654 $\pm$ 0.058 χ^2 /NDF: 883179.7/16

Left Out: 218.710 $\pm$ 0.041 χ^2 /NDF:1175142.8/19

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: 201.323 $\pm$ 0.027 χ^2 /NDF: 2898297.2/38

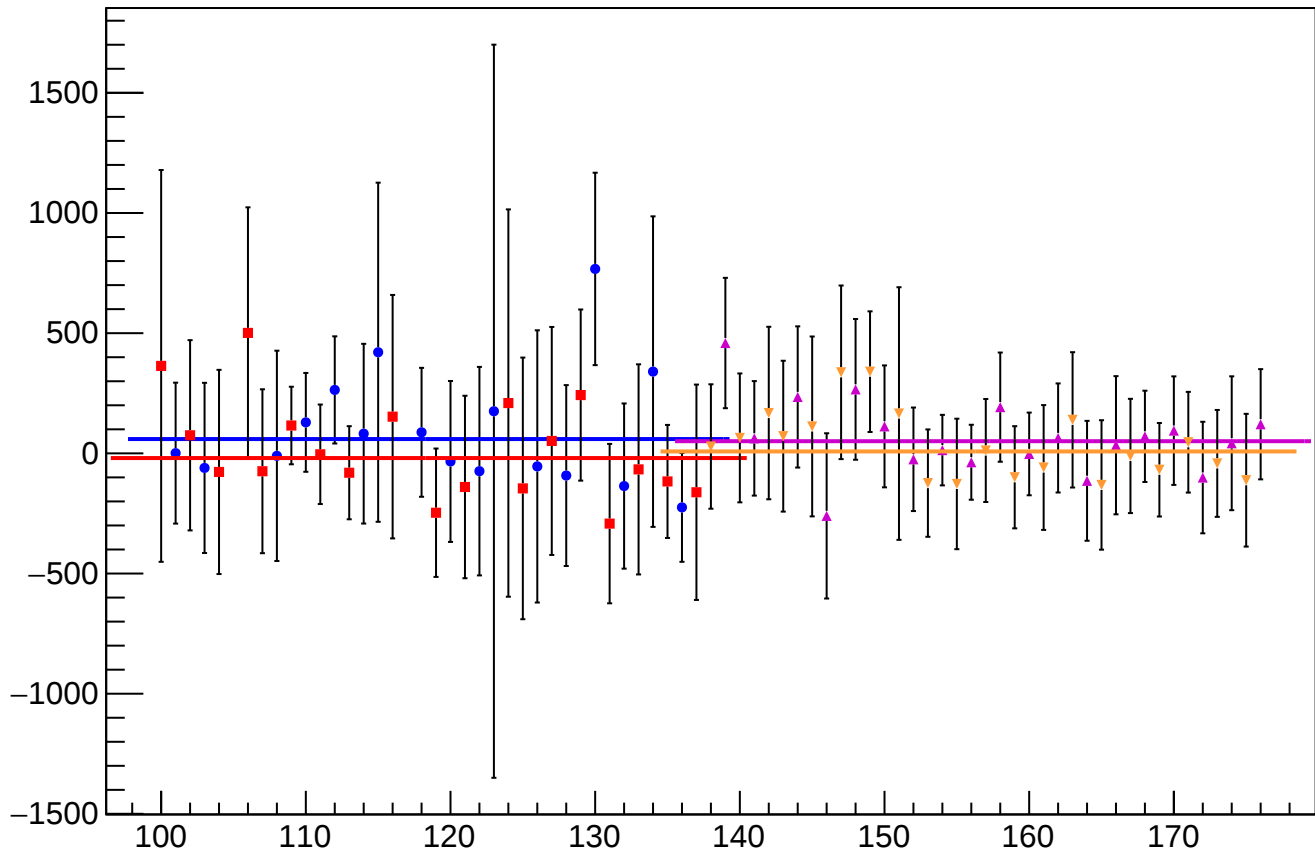
Right: 190.633 $\pm$ 0.039 χ^2 /NDF: 2325921.8/35

In: 191.702 $\pm$ 0.031 χ^2 /NDF:2330877.3/35

Out: 204.414 $\pm$ 0.032 χ^2 /NDF:2863262.5/38

All: 197.765 $\pm$ 0.022 χ^2 /NDF: 5275338.5/74

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2/NDF : 7.0/16

Left Out: 8.016 $\pm$ 57.725 χ^2/NDF : 4.9/19

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: 31.973 $\pm$ 38.171 χ^2/NDF : 11.3/38

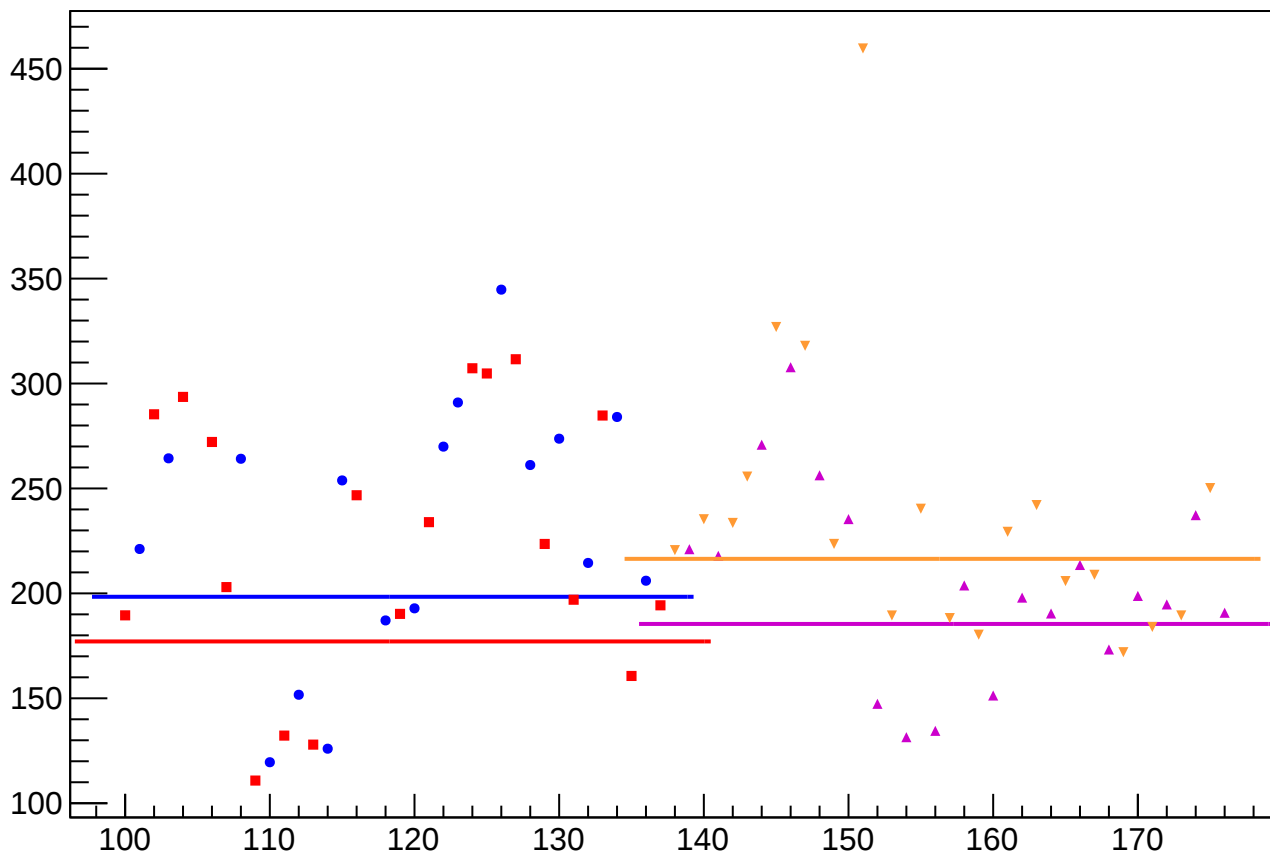
Right: 15.364 $\pm$ 53.701 χ^2/NDF : 12.3/35

In: 53.117 $\pm$ 43.058 χ^2/NDF : 13.1/35

Out: -2.791 $\pm$ 45.004 χ^2/NDF : 9.7/38

All: 26.398 $\pm$ 31.112 χ^2/NDF : 23.6/74

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 216.455+/-0.041 χ^2/NDF : 1184295.9/19

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: 198.997+/-0.027 χ^2/NDF : 2950937.9/38

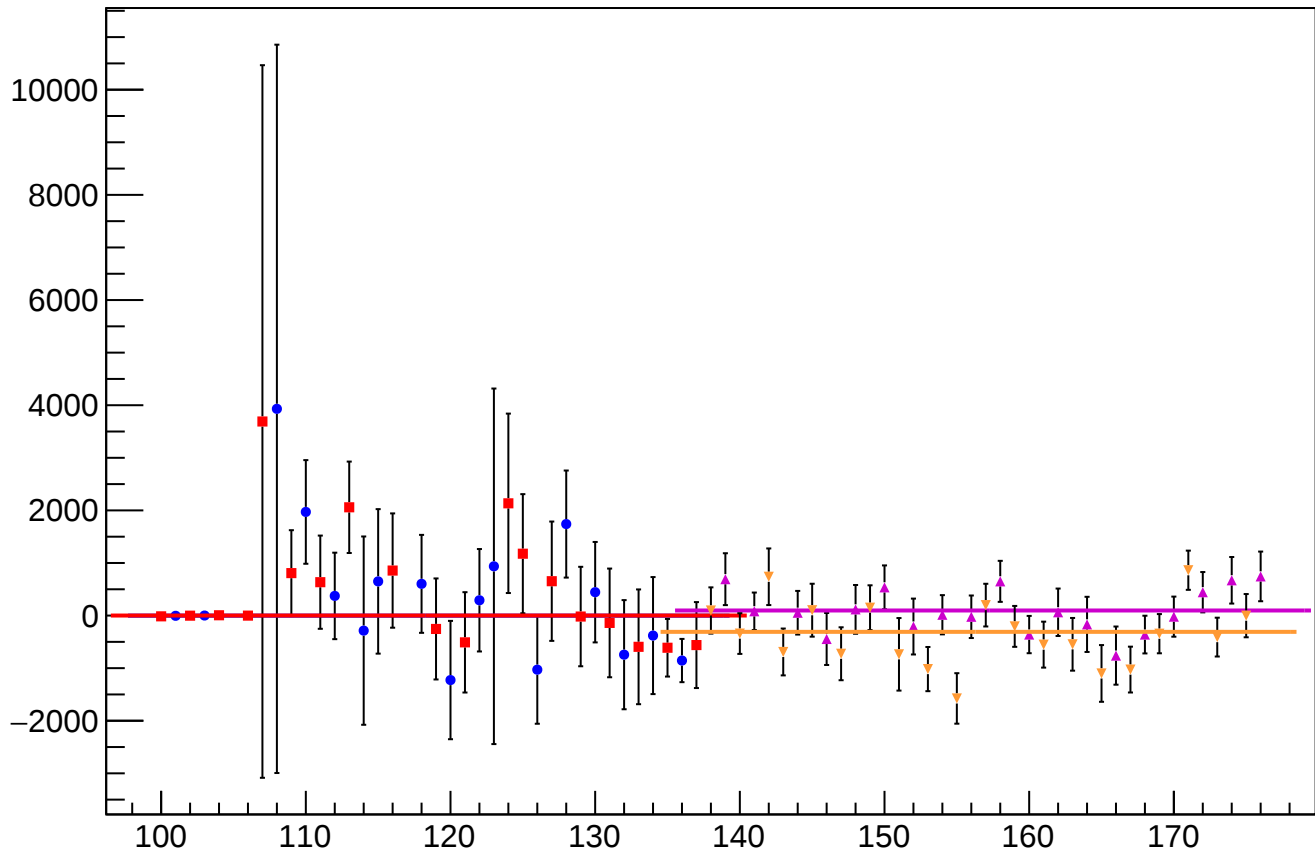
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 189.107+/-0.030 χ^2/NDF : 2441993.3/35

Out: 201.020+/-0.032 χ^2/NDF : 3073696.2/38

All: 194.801+/-0.022 χ^2/NDF : 5588848.4/74

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -309.485 ± 97.998 χ^2/NDF : 35.6/19

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: -104.109 ± 68.898 χ^2/NDF : 61.0/38

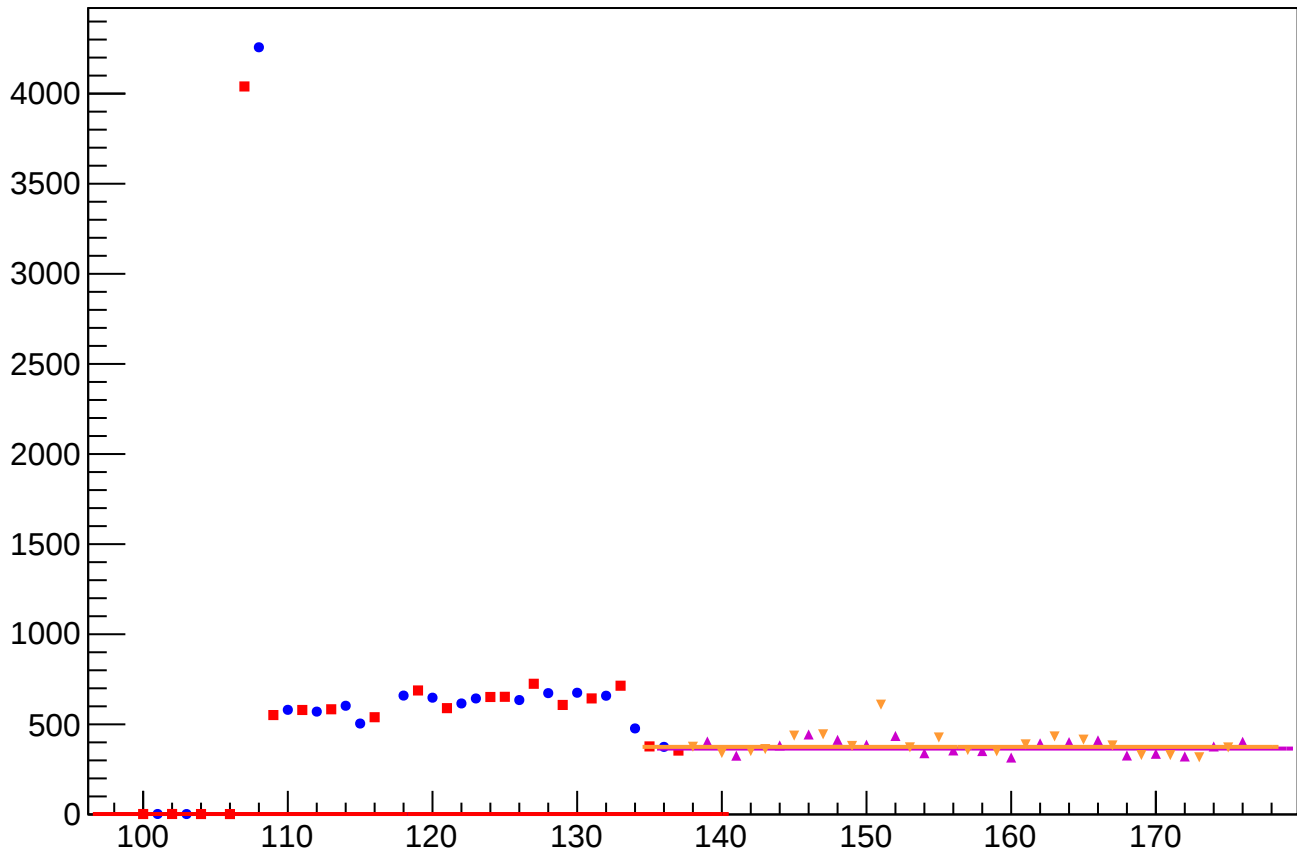
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.476 ± 2.251 χ^2/NDF : 34.7/35

Out: 0.583 ± 2.111 χ^2/NDF : 65.0/38

All: -0.381 ± 1.540 χ^2/NDF : 100.1/74

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 375.016+/-0.069 χ^2/NDF : 505319.2/19

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: 370.250+/-0.049 χ^2/NDF : 825813.7/38

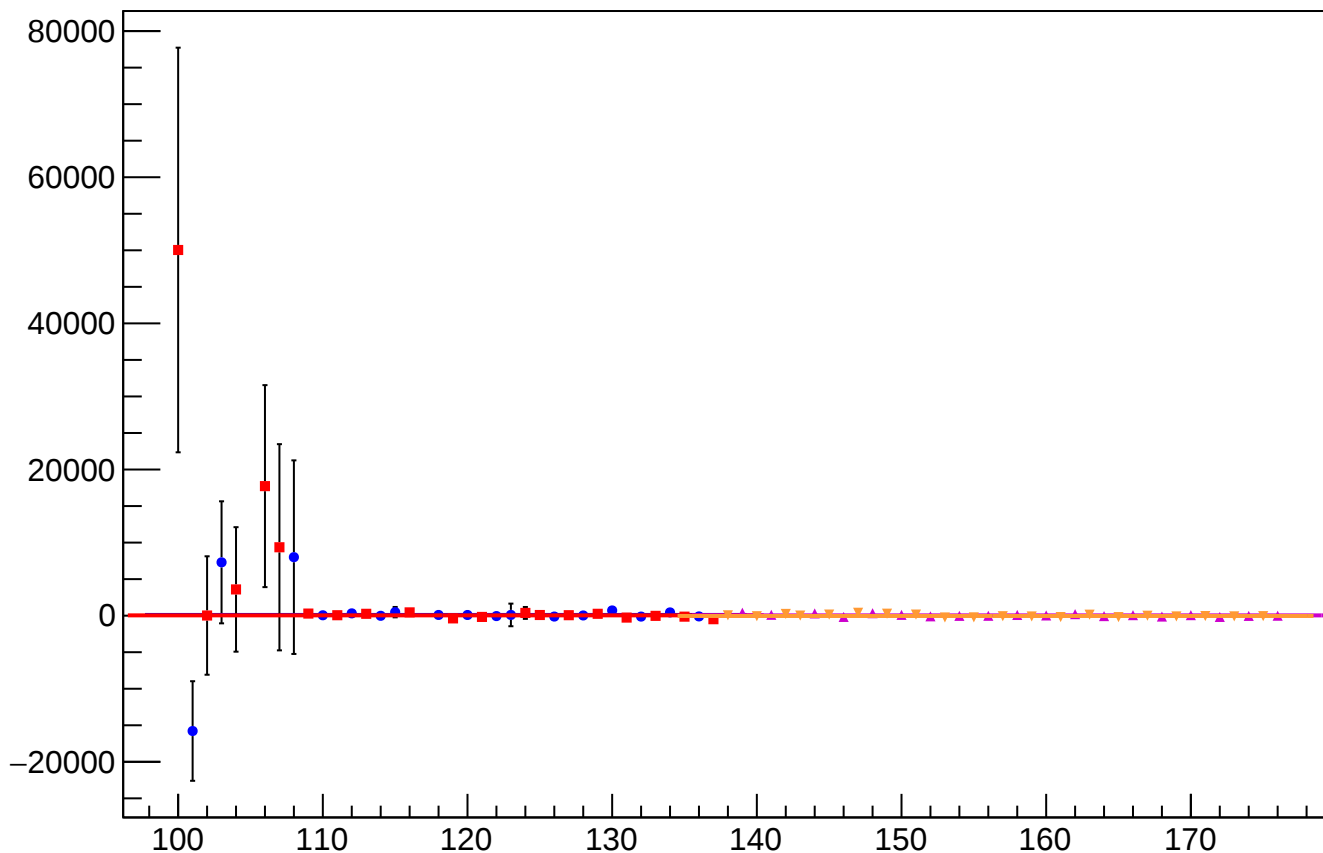
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.653+/-0.002 χ^2/NDF : 39240099.9/35

Out: 2.610+/-0.001 χ^2/NDF : 40548400.7/38

All: 2.630+/-0.001 χ^2/NDF : 79788890.6/74

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -41.031+/-60.112 χ^2/NDF : 6.2/19

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: 3.663+/-39.983 χ^2/NDF : 14.0/38

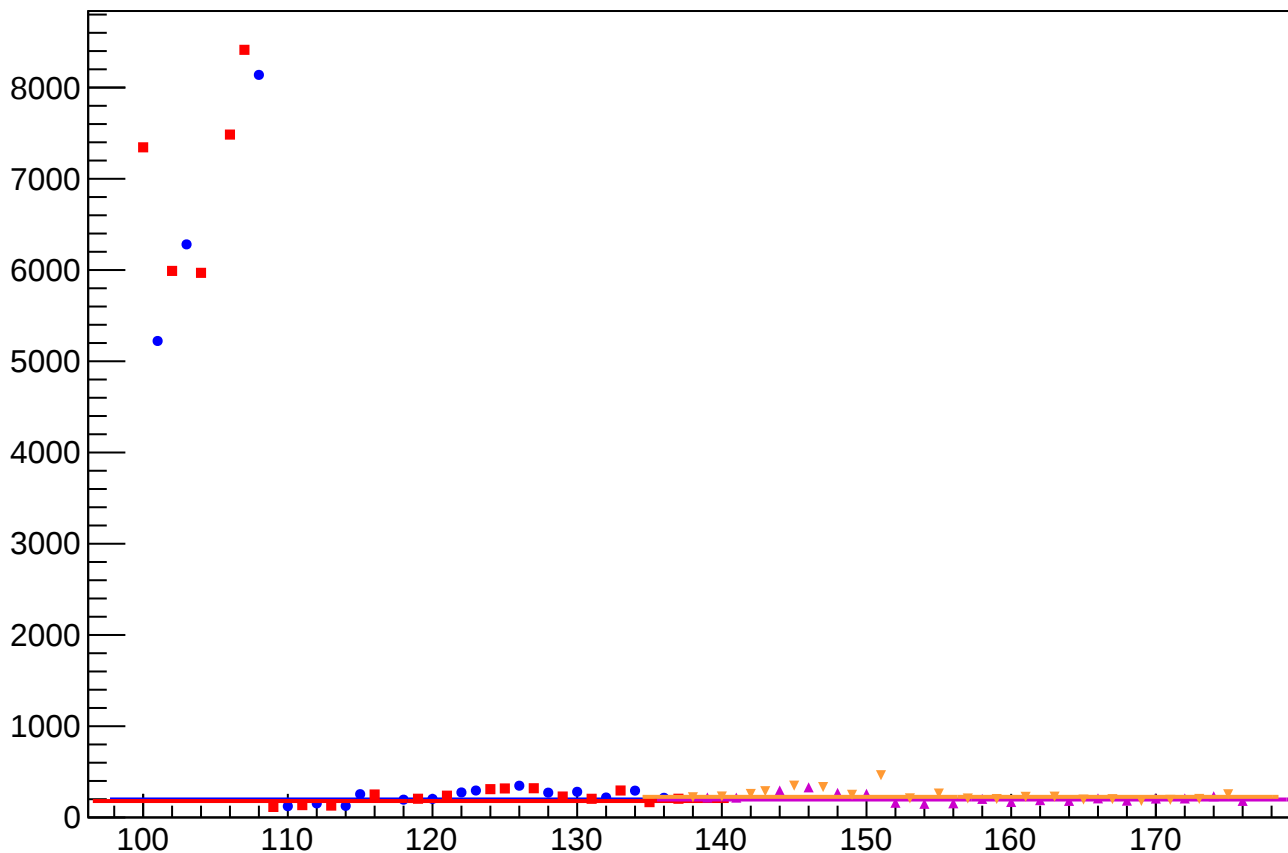
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 54.467+/-46.131 χ^2/NDF : 19.1/35

Out: -13.027+/-48.982 χ^2/NDF : 20.7/38

All: 22.741+/-33.582 χ^2/NDF : 40.8/74

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 225.888+/-0.043 χ^2/NDF :1146967.6/19

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: 209.554+/-0.028 χ^2/NDF : 2535789.5/38

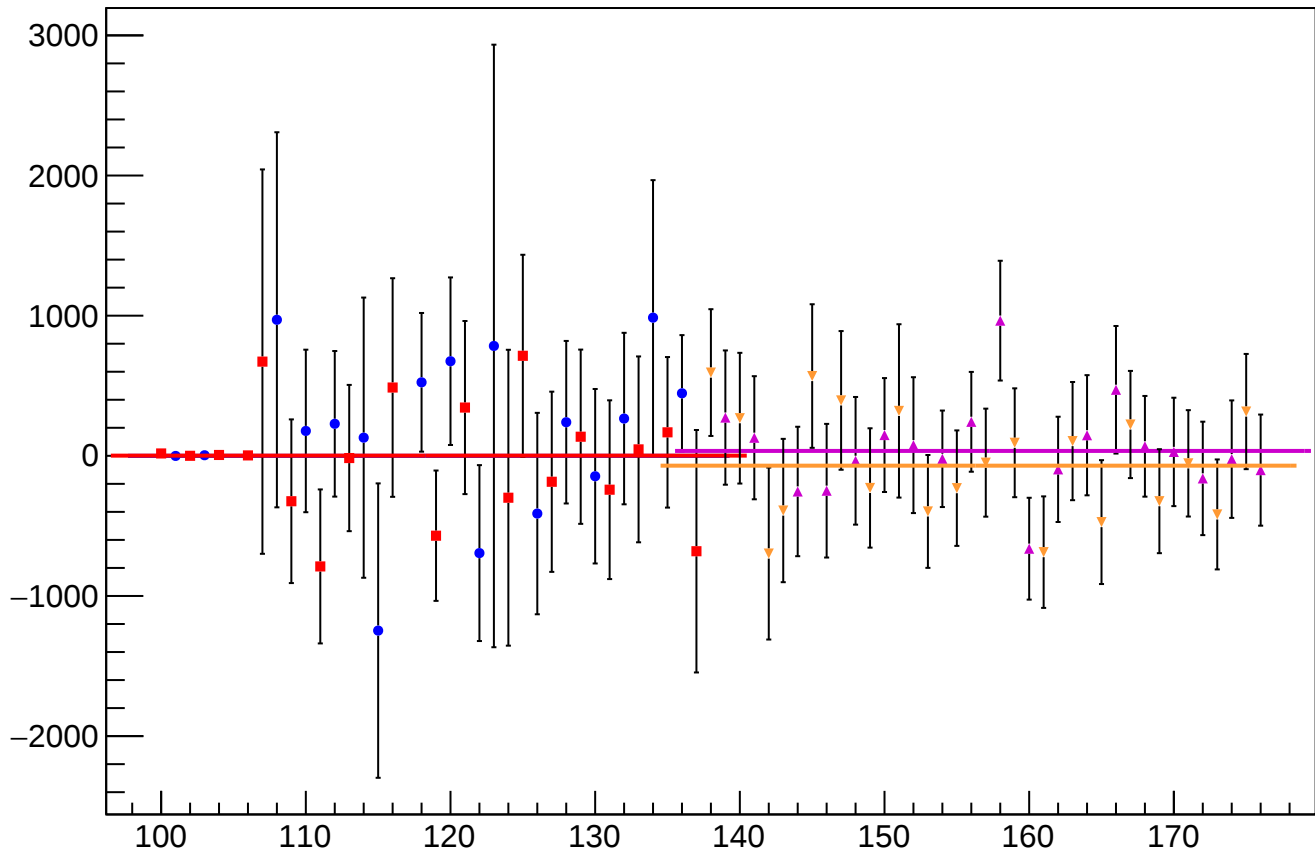
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.721+/-0.033 χ^2/NDF :4817650.5/35

Out: 210.451+/-0.035 χ^2/NDF :5860653.6/38

All: 203.175+/-0.024 χ^2/NDF : 10761580.1/74

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 $\pm$ 1.737 χ^2/NDF : 9.7/16

Left Out: -70.232 $\pm$ 96.255 χ^2/NDF :14.2/19

Right Out: 1.323 $\pm$ 1.623 χ^2/NDF : 9.6/18

Left In: 34.930 $\pm$ 94.037 χ^2/NDF :11.4/18

Left: -16.425 $\pm$ 67.265 χ^2/NDF : 26.3/38

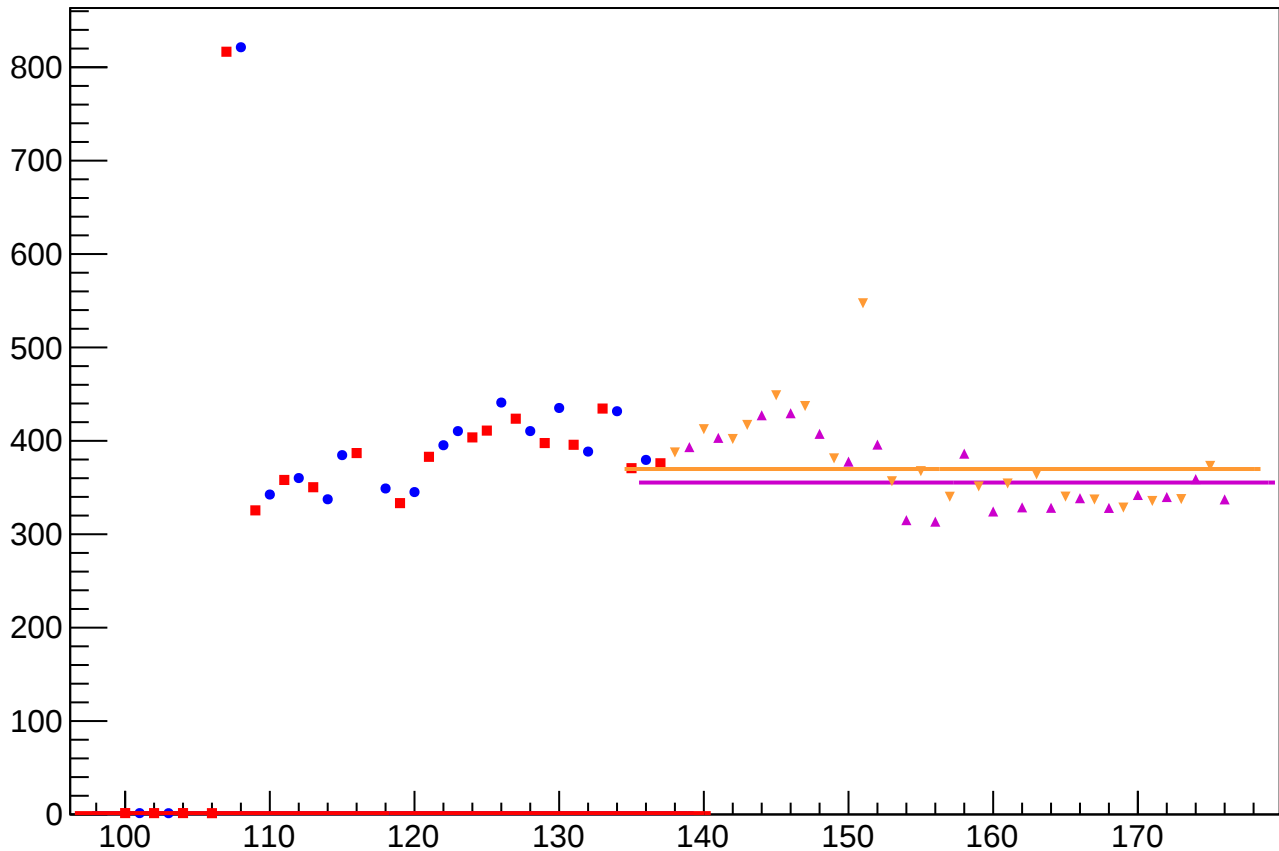
Right: 0.642 $\pm$ 1.186 χ^2/NDF : 19.7/35

In: -0.126 $\pm$ 1.736 χ^2/NDF :21.3/35

Out: 1.303 $\pm$ 1.622 χ^2/NDF :24.4/38

All: 0.637 $\pm$ 1.185 χ^2/NDF : 46.1/74

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453 $\pm$ 0.001 χ^2 /NDF: 10957986.8/16

Left Out: 369.855 $\pm$ 0.068 χ^2 /NDF: 393234.6/19

Right Out: 1.451 $\pm$ 0.001 χ^2 /NDF: 10880737.7/18

Left In: 355.352 $\pm$ 0.066 χ^2 /NDF: 301415.6/18

Left: 362.434 $\pm$ 0.048 χ^2 /NDF: 717882.4/38

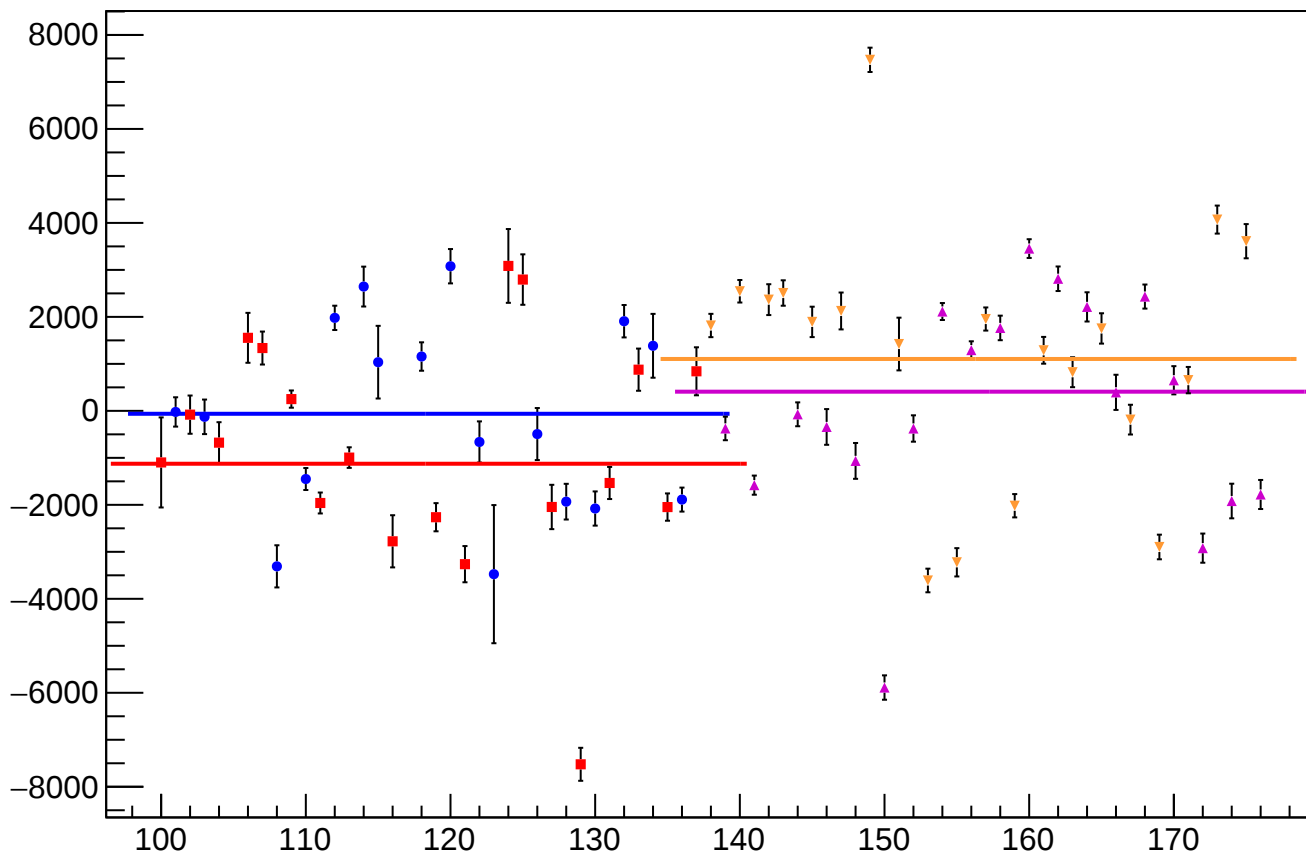
Right: 1.452 $\pm$ 0.001 χ^2 /NDF: 21838725.6/35

In: 1.573 $\pm$ 0.001 χ^2 /NDF: 39576012.4/35

Out: 1.556 $\pm$ 0.001 χ^2 /NDF: 40563115.1/38

All: 1.564 $\pm$ 0.001 χ^2 /NDF: 80139239.3/74

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 χ^2/NDF : 433.9/16

Left Out: 1104.282 ± 64.797 χ^2/NDF : 1837.0/19

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: 726.606 ± 43.826 χ^2/NDF : 3382.2/38

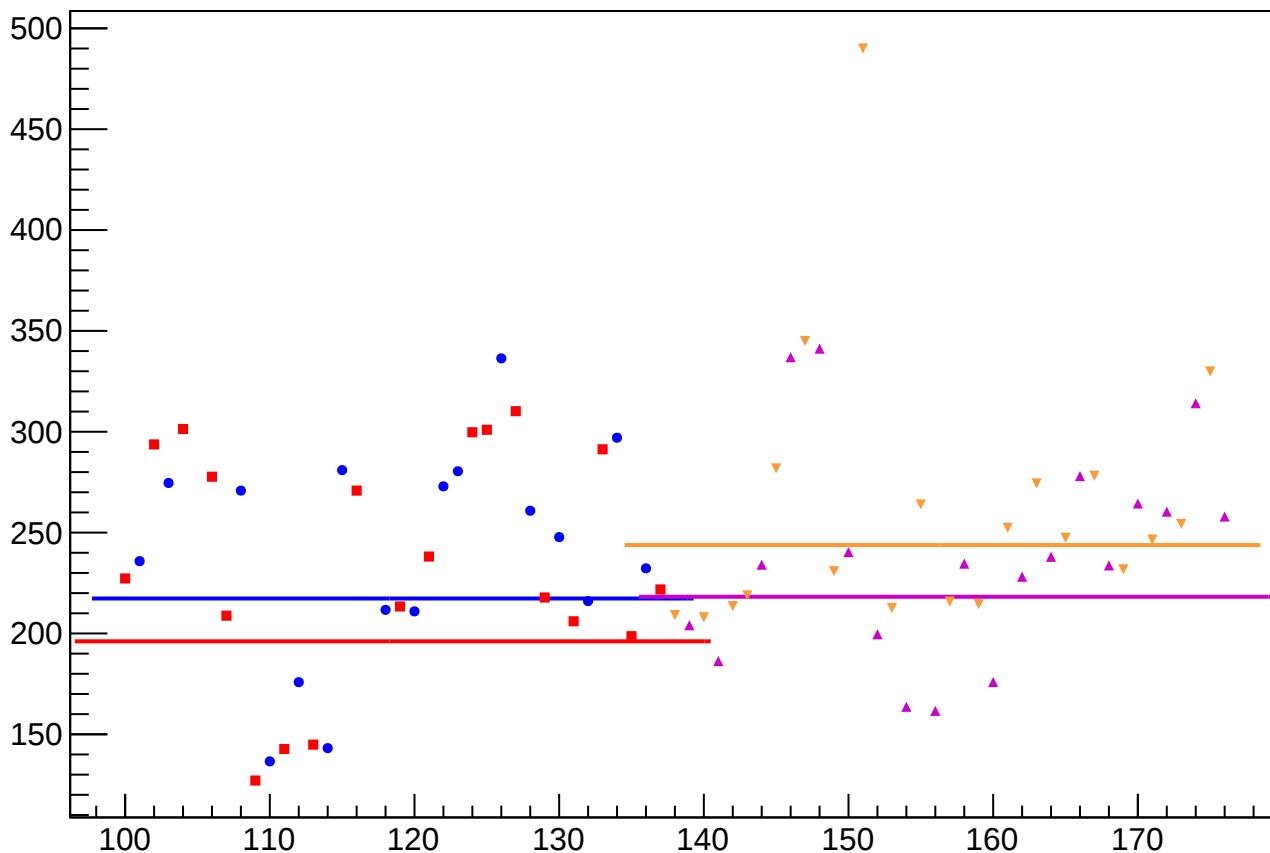
Right: -651.694 ± 58.355 χ^2/NDF : 1187.1/35

In: 259.258 ± 49.189 χ^2/NDF : 1936.3/35

Out: 198.918 ± 49.938 χ^2/NDF : 2989.0/38

All: 229.544 ± 35.044 χ^2/NDF : 4926.1/74

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 243.820 $\pm$ 0.046 χ^2 /NDF: 924732.2/19

Right Out: 196.105 $\pm$ 0.055 χ^2 /NDF: 1190733.6/18

Left In: 218.195 $\pm$ 0.042 χ^2 /NDF: 1274472.2/18

Left: 229.918 $\pm$ 0.031 χ^2 /NDF: 2368900.4/38

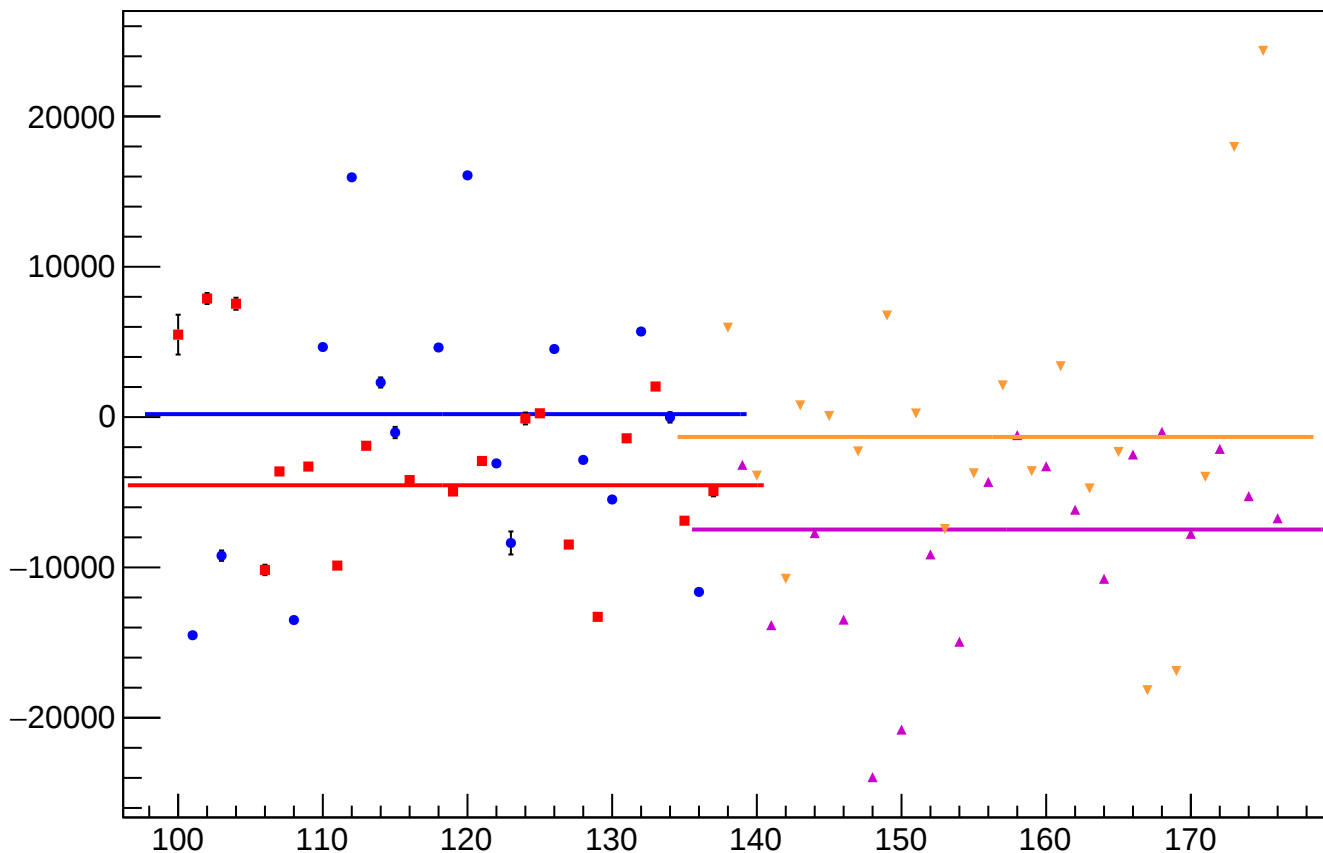
Right: 205.562 $\pm$ 0.041 χ^2 /NDF: 1908816.5/35

In: 217.921 $\pm$ 0.035 χ^2 /NDF: 1927328.6/35

Out: 224.446 $\pm$ 0.035 χ^2 /NDF: 2555816.6/38

All: 221.134 $\pm$ 0.025 χ^2 /NDF: 4500473.5/74

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1321.016 ± 44.909 $\chi^2/\text{NDF}: 45094.8/19$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7479.863 ± 46.370 $\chi^2/\text{NDF}: 17297.4/18$

Left: -4301.906 ± 32.259 $\chi^2/\text{NDF}: 71495.1/38$

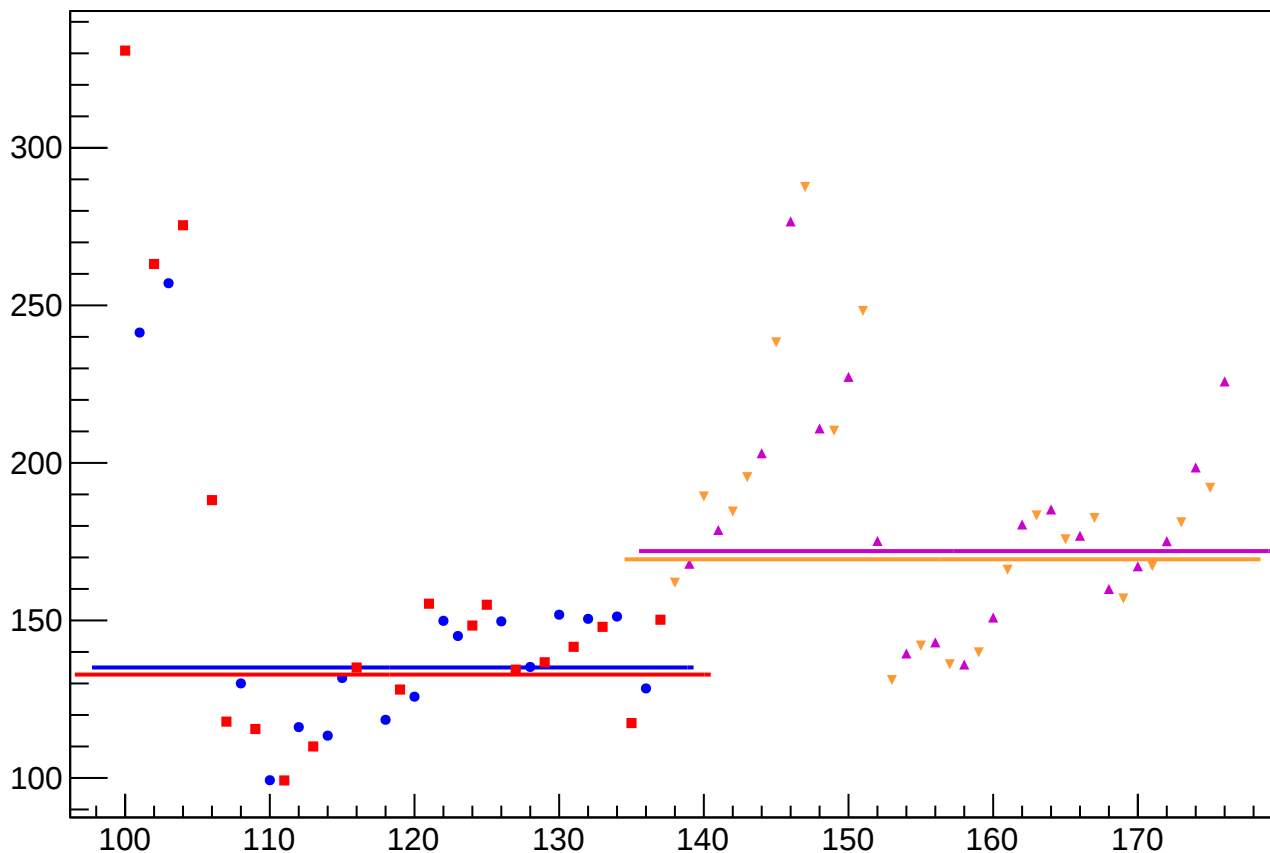
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4276.619 ± 35.397 $\chi^2/\text{NDF}: 59392.6/35$

Out: -2679.863 ± 34.116 $\chi^2/\text{NDF}: 54737.0/38$

All: -3448.819 ± 24.564 $\chi^2/\text{NDF}: 115184.4/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 169.400 $\pm$ 0.032 χ^2 /NDF:1052531.6/19

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: 170.666 $\pm$ 0.023 χ^2 /NDF: 1910307.0/38

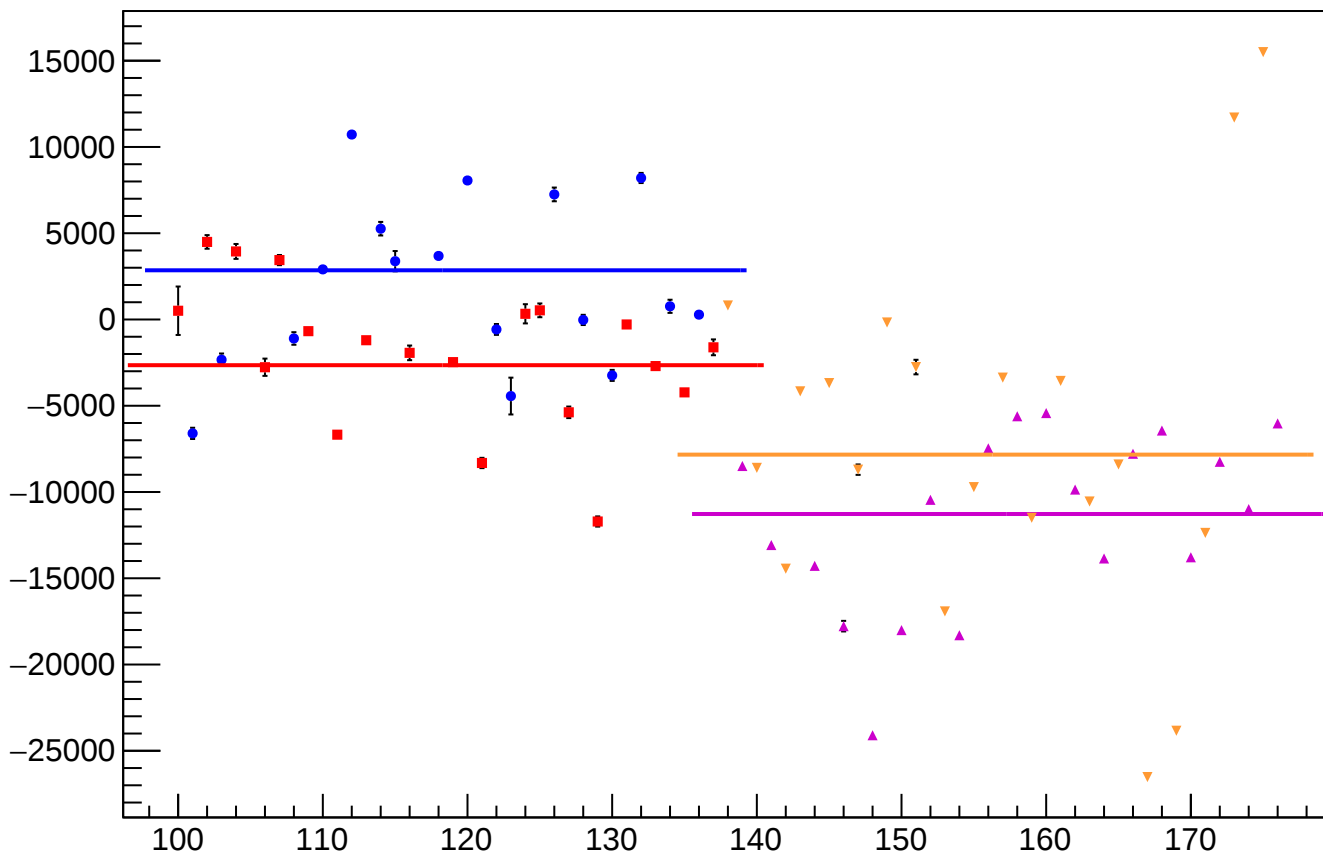
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 156.600 $\pm$ 0.025 χ^2 /NDF:2042904.3/35

Out: 153.929 $\pm$ 0.024 χ^2 /NDF:2444997.8/38

All: 155.215 $\pm$ 0.017 χ^2 /NDF: 4493807.1/74

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7833.022+/-50.761 χ^2/NDF :38131.8/19

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: -9676.970+/-34.588 χ^2/NDF : 51890.1/38

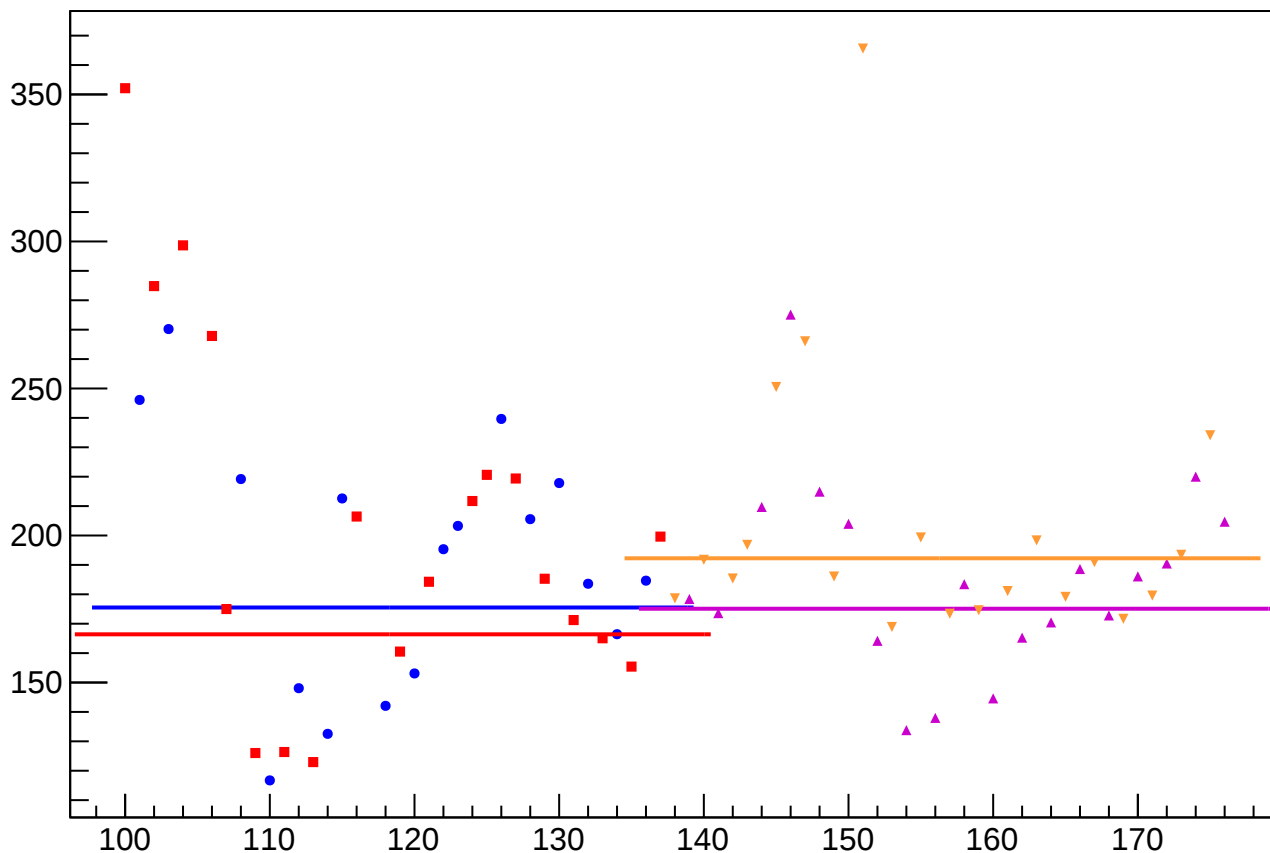
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6917.373+/-39.297 χ^2/NDF :43039.8/35

Out: -5896.427+/-40.175 χ^2/NDF :45203.7/38

All: -6418.186+/-28.093 χ^2/NDF : 88573.5/74

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.250+/-0.036 χ^2/NDF : 711071.0/19

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: 183.060+/-0.024 χ^2/NDF : 1640971.9/38

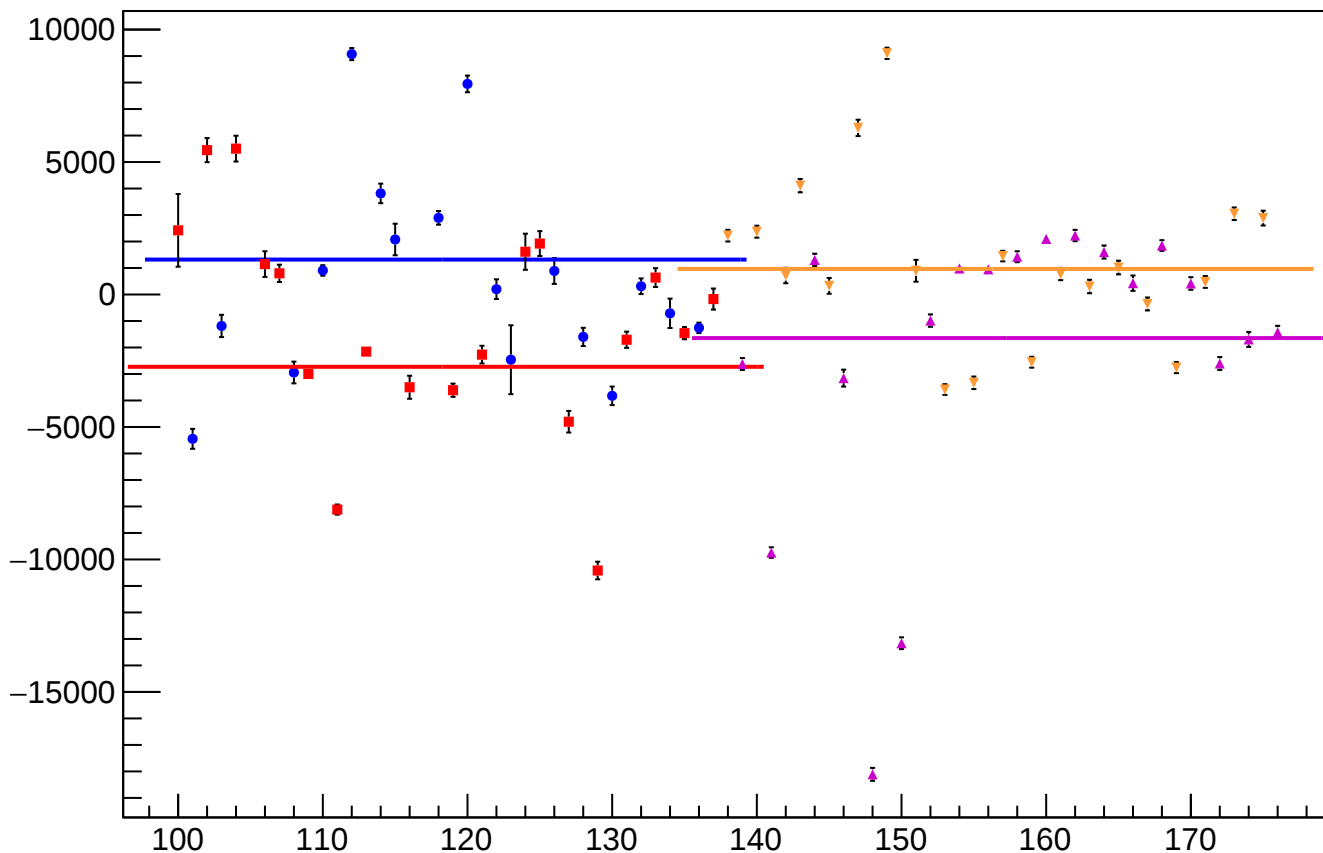
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 175.225+/-0.028 χ^2/NDF : 1497233.2/35

Out: 182.590+/-0.028 χ^2/NDF : 1834472.4/38

All: 178.826+/-0.020 χ^2/NDF : 3366057.3/74

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 965.786+/-53.619 χ^2/NDF :3603.5/19

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1644.707+/-49.675 χ^2/NDF :11303.6/18

Left: -438.982+/-36.440 χ^2/NDF : 16182.6/38

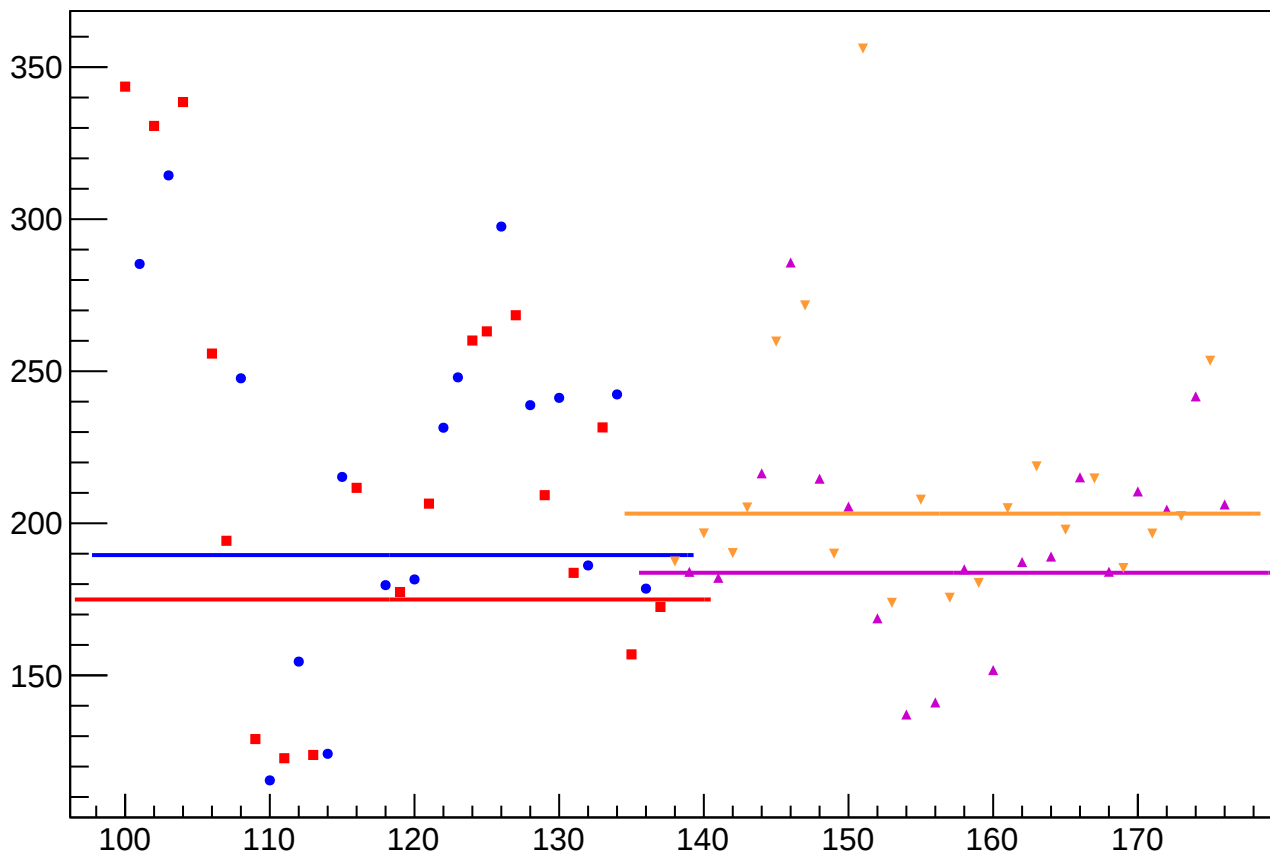
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -776.050+/-41.765 χ^2/NDF :15013.9/35

Out: -399.277+/-42.573 χ^2/NDF :7853.1/38

All: -591.269+/-29.814 χ^2/NDF : 22907.0/74

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 203.180+/-0.038 χ^2/NDF : 668977.3/19

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 183.730+/-0.035 χ^2/NDF : 863920.6/18

Left: 192.713+/-0.026 χ^2/NDF : 1674523.8/38

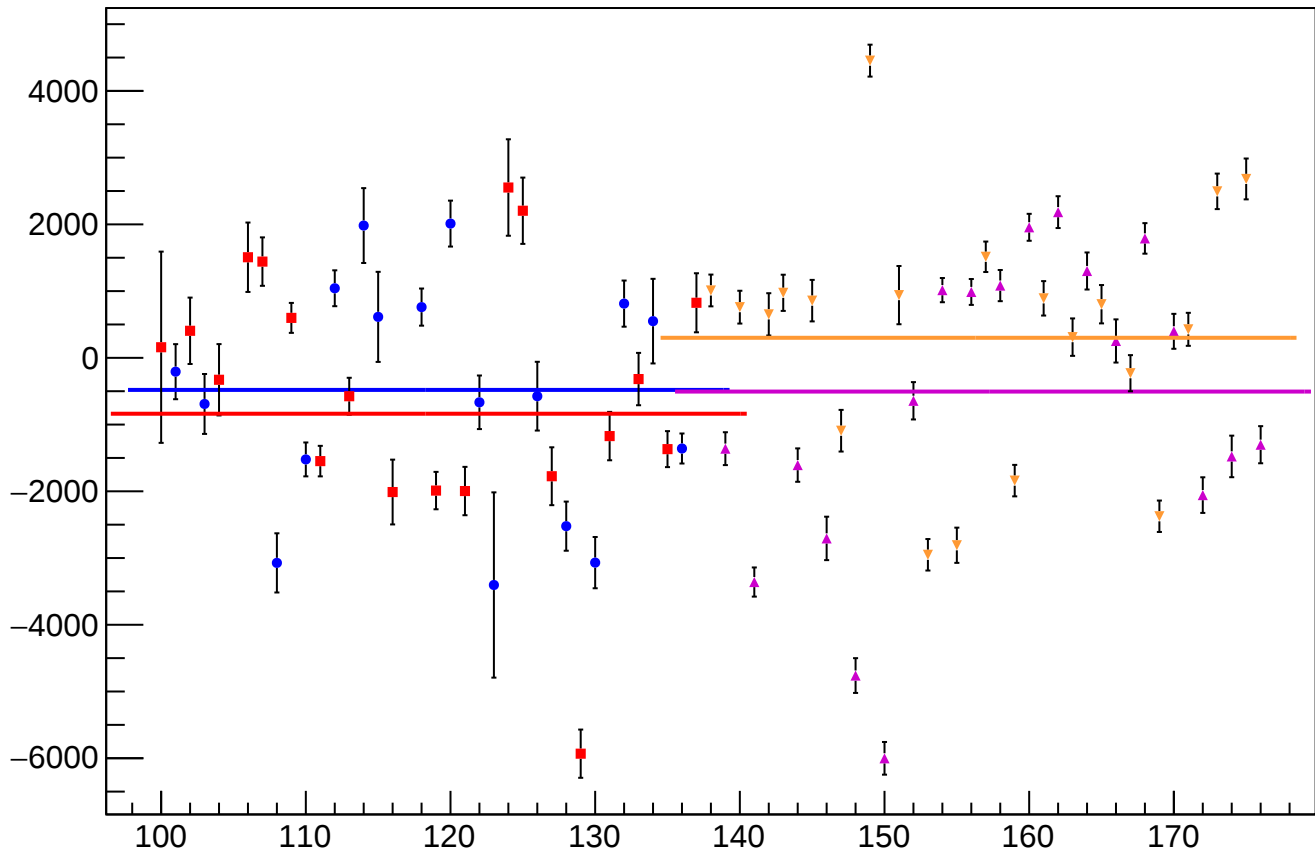
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 185.434+/-0.030 χ^2/NDF : 1852697.3/35

Out: 192.745+/-0.030 χ^2/NDF : 2171071.1/38

All: 189.019+/-0.021 χ^2/NDF : 4053821.0/74

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 $\pm$ 88.640 χ^2/NDF : 290.7/16

Left Out: 300.595 $\pm$ 59.415 χ^2/NDF :1055.6/19

Right Out: -837.442 $\pm$ 82.243 χ^2/NDF : 435.3/18

Left In: -505.379 $\pm$ 56.082 χ^2/NDF :1681.9/18

Left: -125.634 $\pm$ 40.783 χ^2/NDF : 2834.8/38

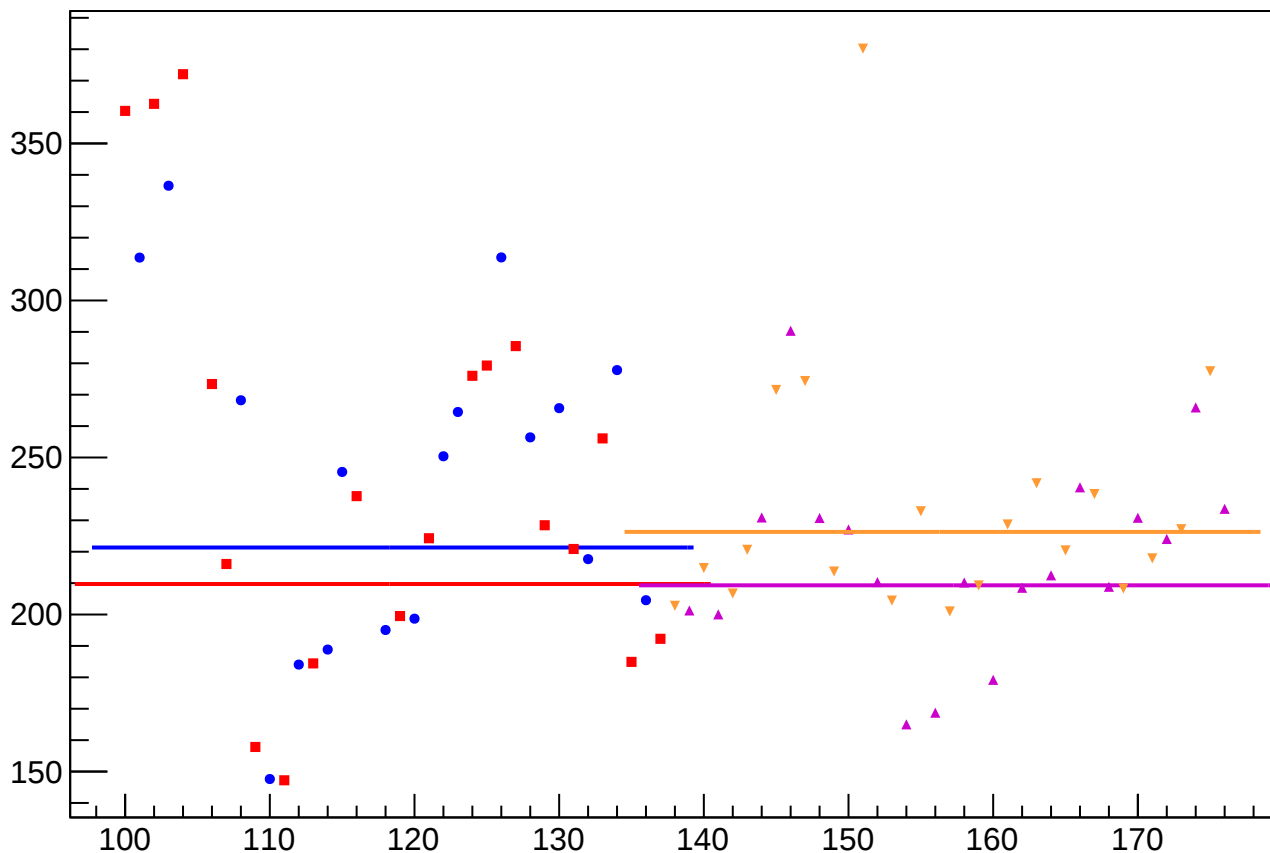
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -498.289 $\pm$ 47.393 χ^2/NDF :1972.7/35

Out: -89.672 $\pm$ 48.162 χ^2/NDF :1616.7/38

All: -297.269 $\pm$ 33.780 χ^2/NDF : 3625.9/74

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342+/-0.063 χ^2/NDF : 645688.1/16

Left Out: 226.312+/-0.042 χ^2/NDF : 510947.7/19

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: 217.317+/-0.029 χ^2/NDF : 1137497.0/38

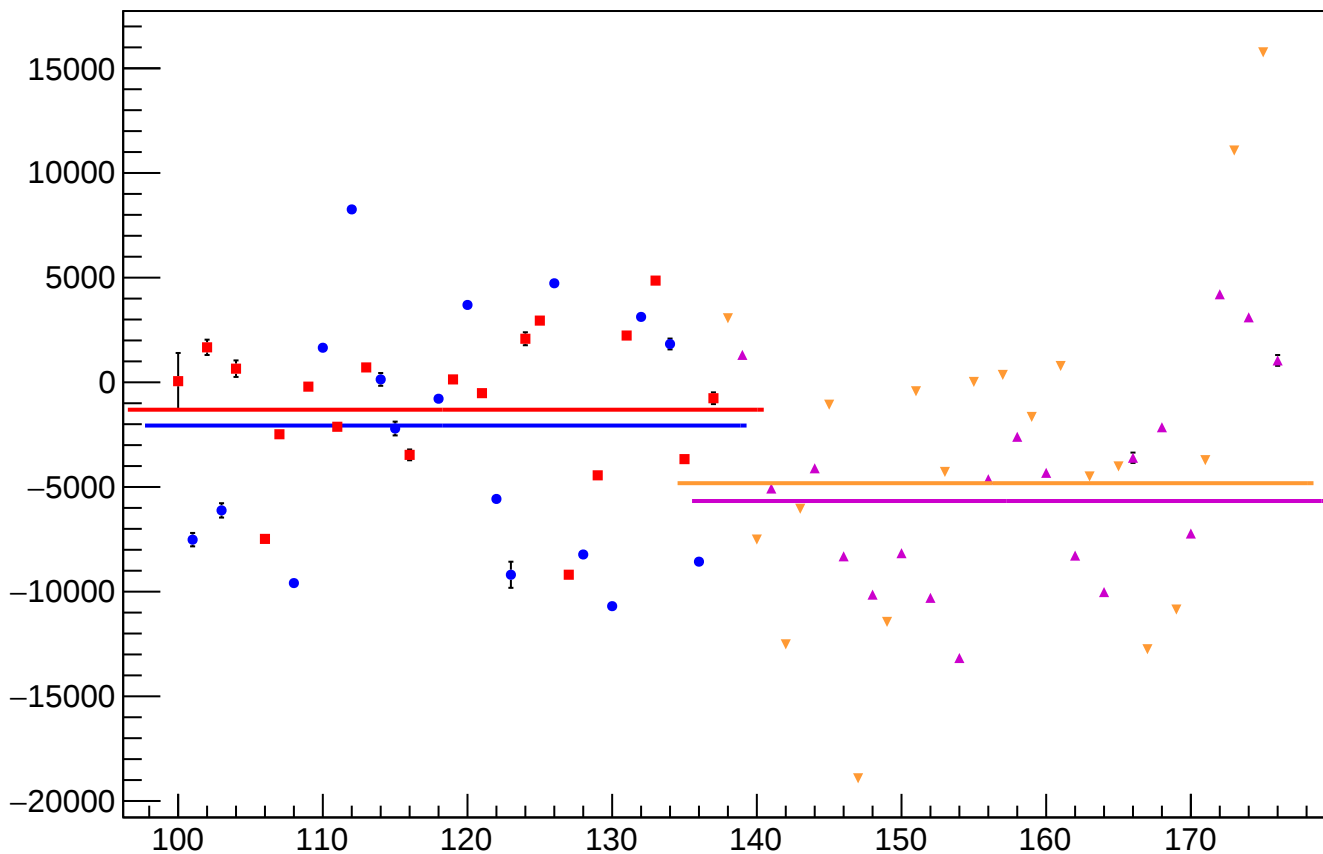
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 212.744+/-0.034 χ^2/NDF : 1211907.4/35

Out: 220.621+/-0.034 χ^2/NDF : 1448371.5/38

All: 216.619+/-0.024 χ^2/NDF : 2687454.1/74

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -4818.637+/-35.131 $\chi^2/\text{NDF}: 44911.8/19$

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: -5232.740+/-25.174 $\chi^2/\text{NDF}: 59287.8/38$

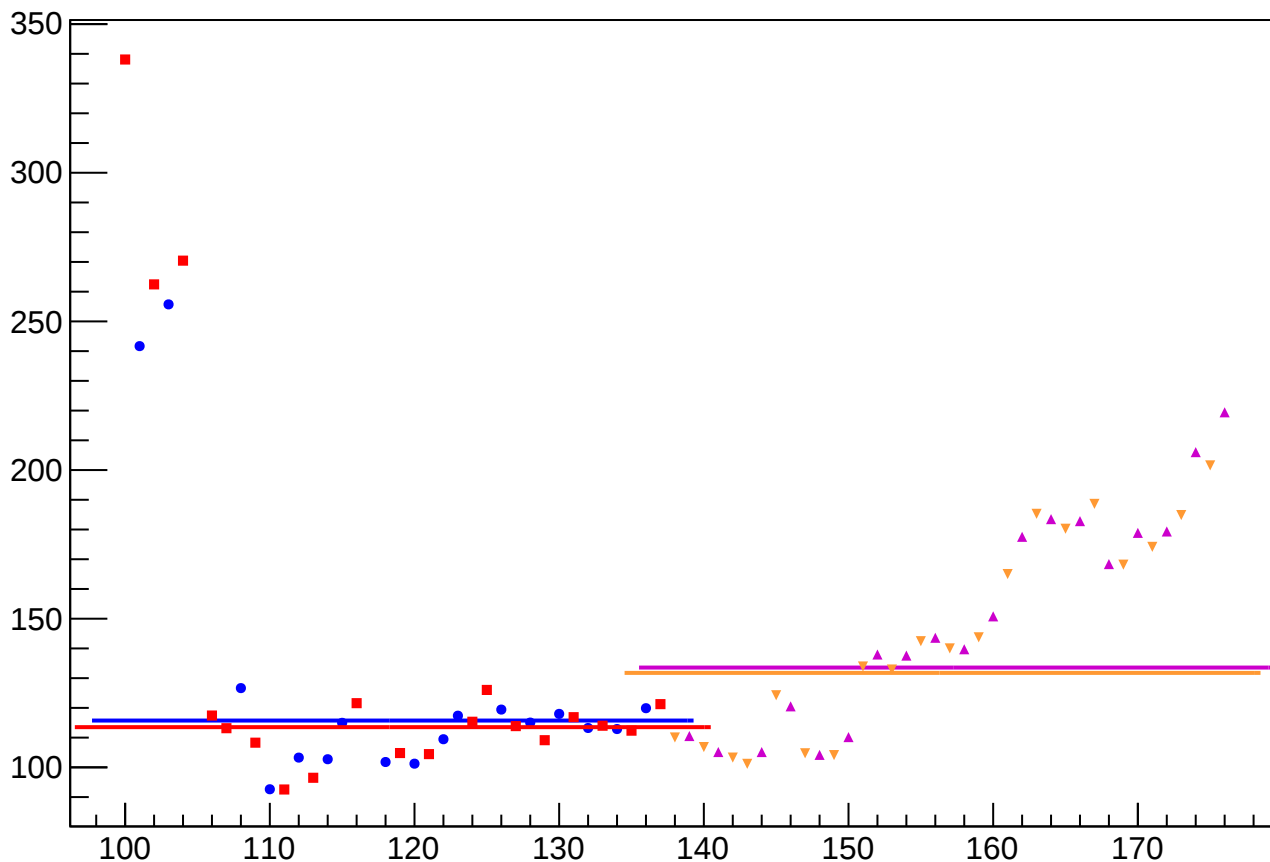
Right: -1667.825+/-32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4344.175+/-28.697 $\chi^2/\text{NDF}: 34292.1/35$

Out: -3489.452+/-27.692 $\chi^2/\text{NDF}: 54586.4/38$

All: -3901.581+/-19.927 $\chi^2/\text{NDF}: 89337.9/74$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 131.770+/-0.025 χ^2/NDF : 1461629.3/19

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: 132.643+/-0.018 χ^2/NDF : 2943648.9/38

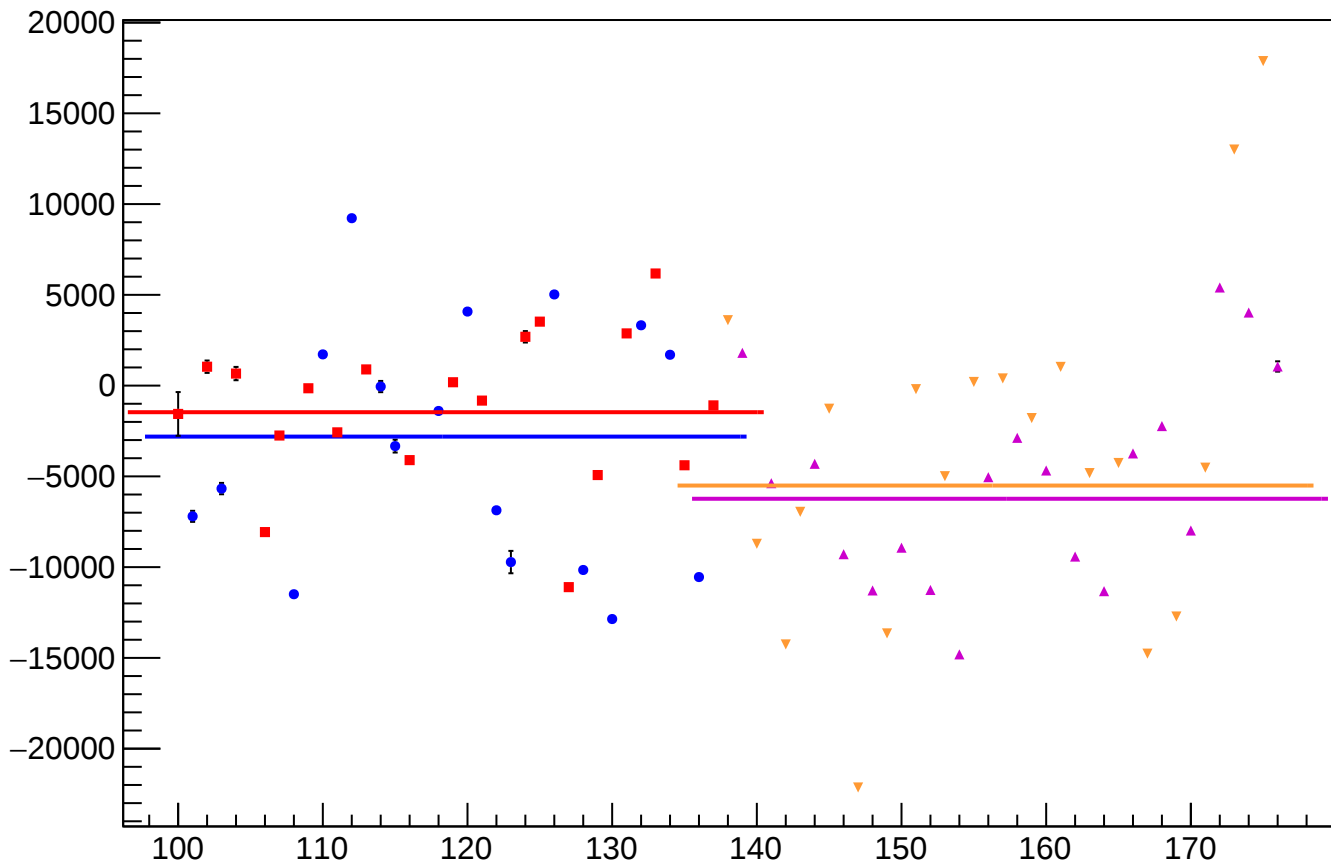
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 127.009+/-0.020 χ^2/NDF : 2402874.2/35

Out: 124.859+/-0.020 χ^2/NDF : 2462670.8/38

All: 125.896+/-0.014 χ^2/NDF : 4871359.3/74

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101 $\pm$ 48.284 χ^2/NDF : 21263.1/16

Left Out: -5505.397 $\pm$ 37.359 χ^2/NDF : 52643.9/19

Right Out: -1465.074 $\pm$ 46.394 χ^2/NDF : 8004.7/18

Left In: -6233.678 $\pm$ 38.416 χ^2/NDF : 16340.8/18

Left: -5859.376 $\pm$ 26.783 χ^2/NDF : 69169.3/38

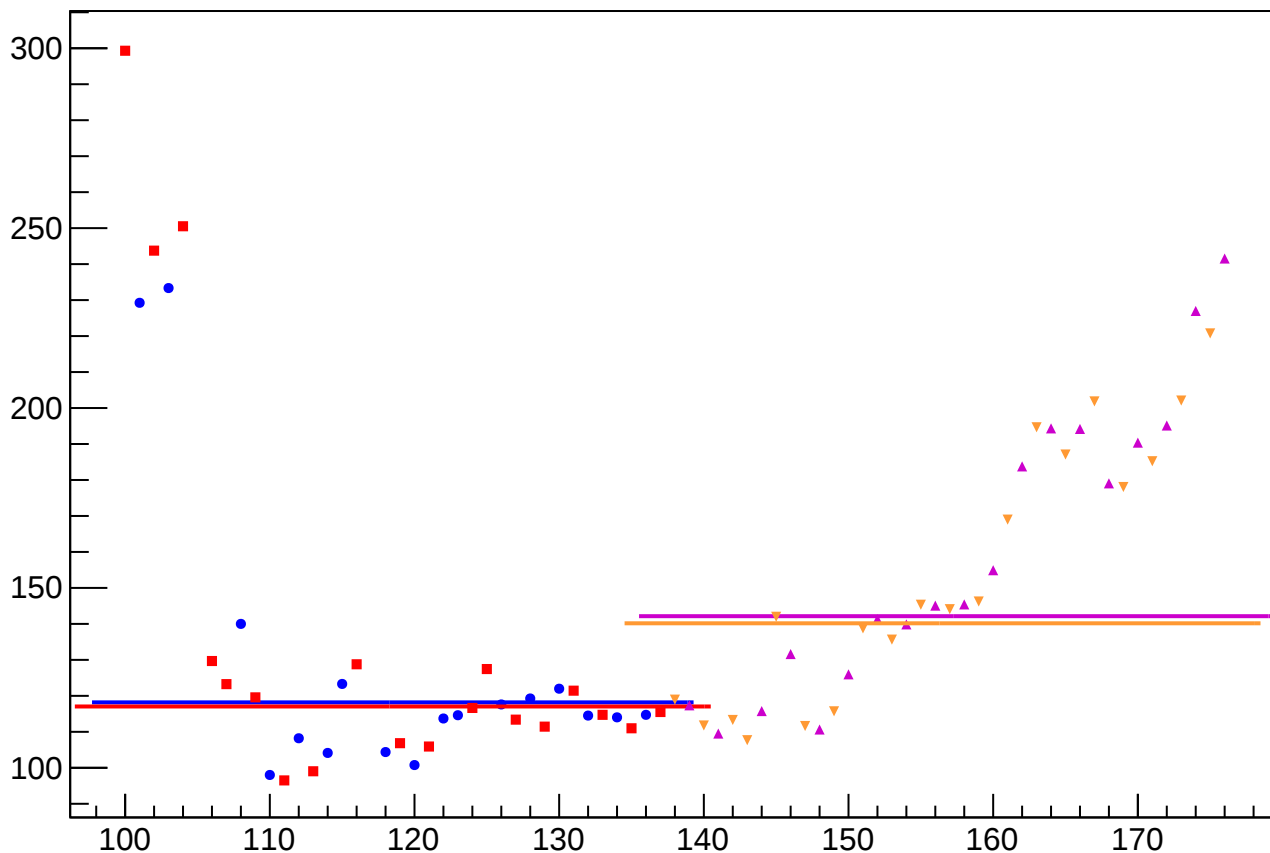
Right: -2110.267 $\pm$ 33.454 χ^2/NDF : 29670.7/35

In: -4906.188 $\pm$ 30.062 χ^2/NDF : 40684.3/35

Out: -3916.112 $\pm$ 29.098 χ^2/NDF : 65249.4/38

All: -4395.014 $\pm$ 20.908 χ^2/NDF : 106493.7/77

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2/NDF : 636252.0/16

Left Out: 140.165 $\pm$ 0.026 χ^2/NDF :1382964.8/19

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: 141.127 $\pm$ 0.019 χ^2/NDF : 2818700.6/38

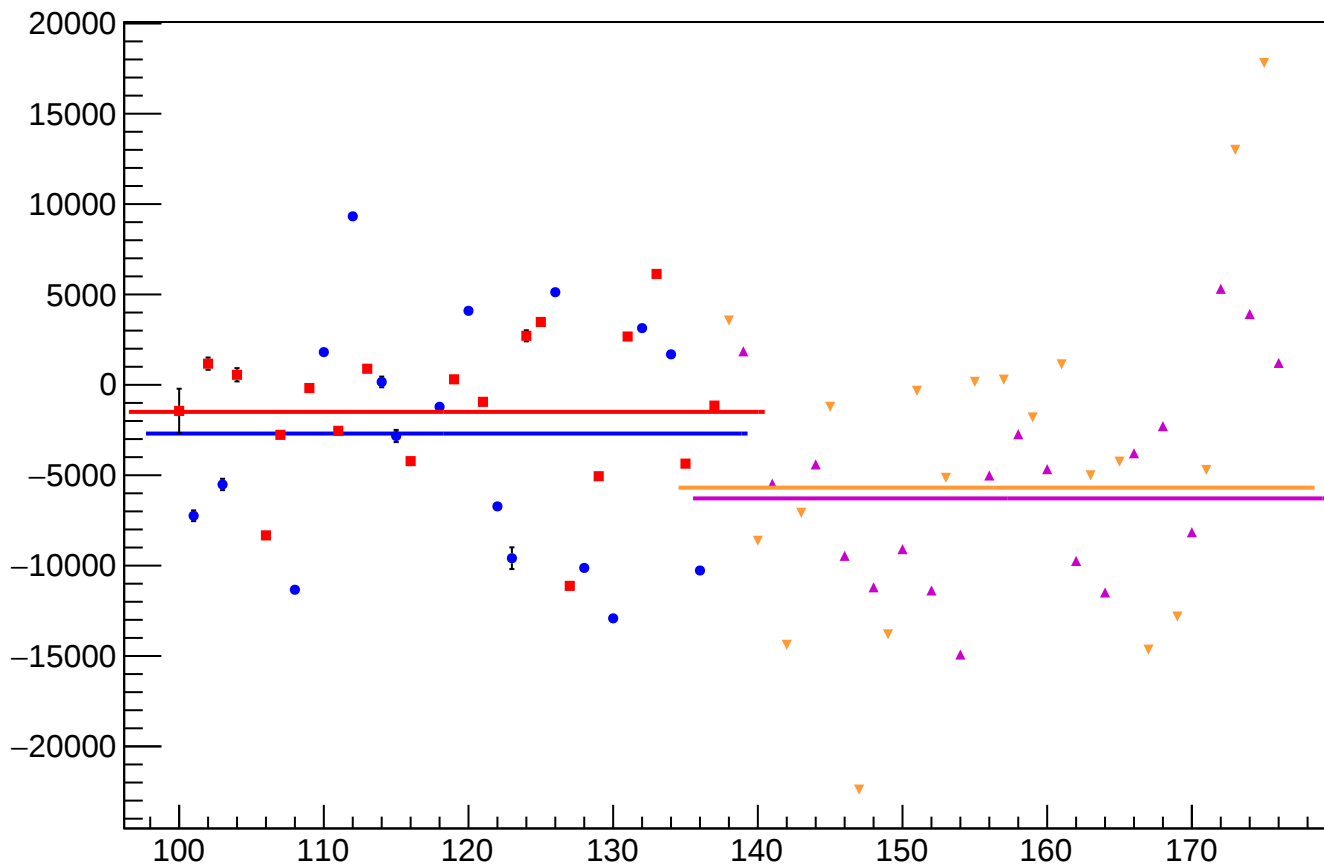
Right: 117.594 $\pm$ 0.024 χ^2/NDF : 1327469.8/35

In: 132.858 $\pm$ 0.021 χ^2/NDF :2370724.4/35

Out: 131.071 $\pm$ 0.021 χ^2/NDF :2374894.1/38

All: 131.935 $\pm$ 0.015 χ^2/NDF : 4749266.5/74

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -5688.275+/-36.470 χ^2/NDF : 56850.0/19

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -6281.533+/-37.434 χ^2/NDF : 17452.0/18

Left: -5977.165+/-26.123 χ^2/NDF : 74430.9/38

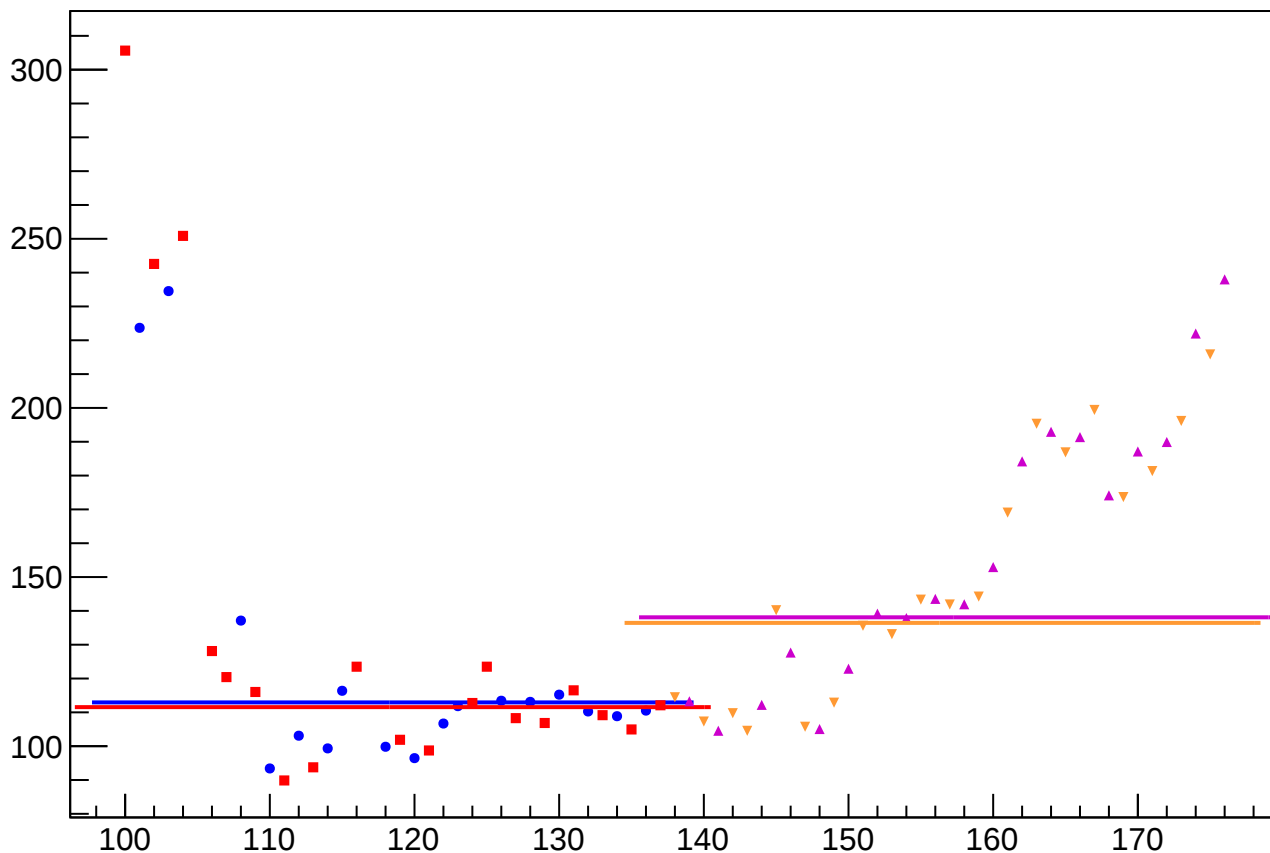
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -4865.243+/-29.122 χ^2/NDF : 43937.9/35

Out: -4001.231+/-28.193 χ^2/NDF : 70884.9/38

All: -4419.244+/-20.256 χ^2/NDF : 115277.2/77

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940+/-0.033 χ^2/NDF : 680283.1/16

Left Out: 136.449+/-0.026 χ^2/NDF :1496924.5/19

Right Out: 111.544+/-0.031 χ^2/NDF : 765502.6/18

Left In: 138.096+/-0.026 χ^2/NDF :1549503.3/18

Left: 137.251+/-0.018 χ^2/NDF : 3048412.9/38

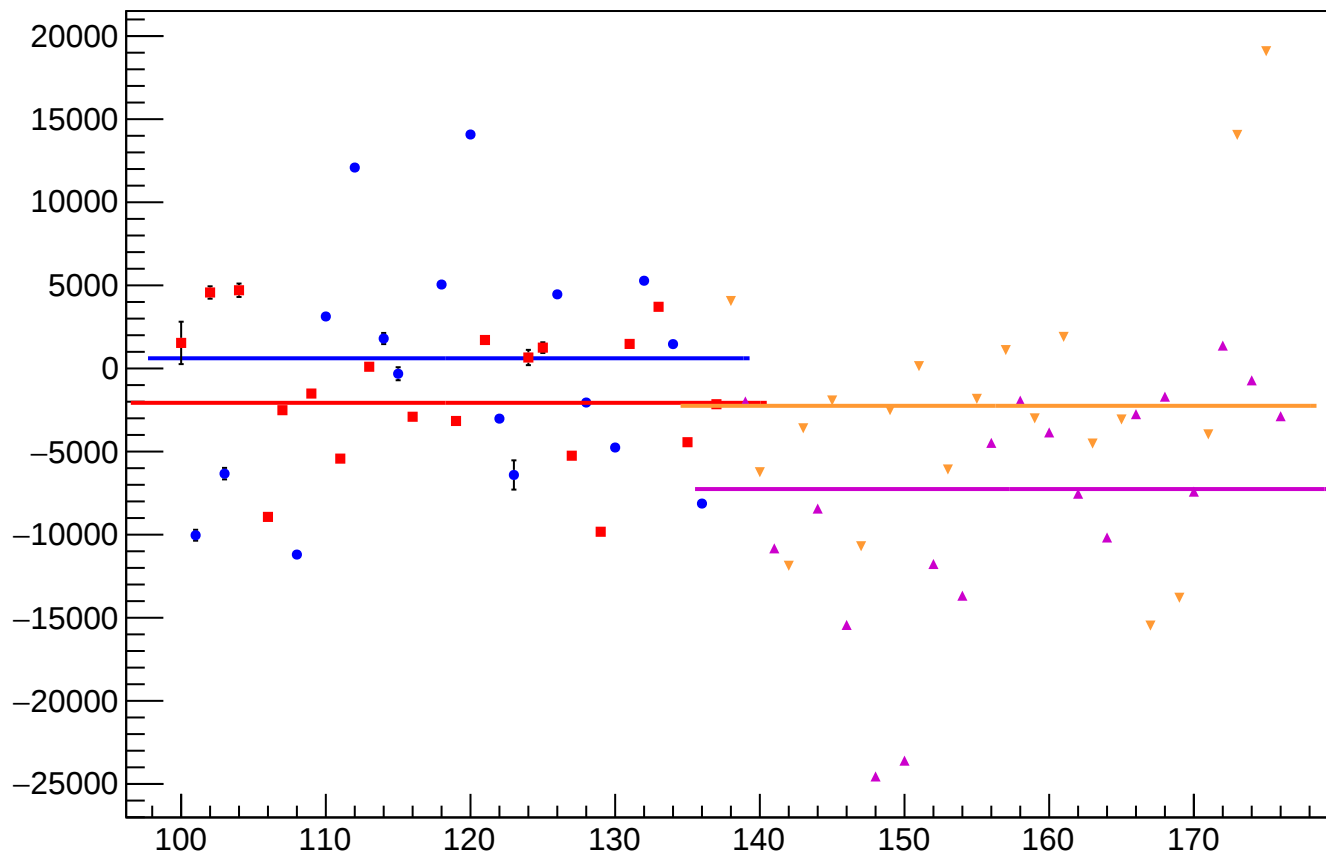
Right: 112.213+/-0.023 χ^2/NDF : 1446732.2/35

In: 128.164+/-0.021 χ^2/NDF :2586350.2/35

Out: 126.427+/-0.020 χ^2/NDF :2637748.8/38

All: 127.268+/-0.014 χ^2/NDF : 5227771.1/74

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -2247.546 ± 41.955 $\chi^2/\text{NDF}: 30884.0/19$

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: -4640.909 ± 30.316 $\chi^2/\text{NDF}: 56874.1/38$

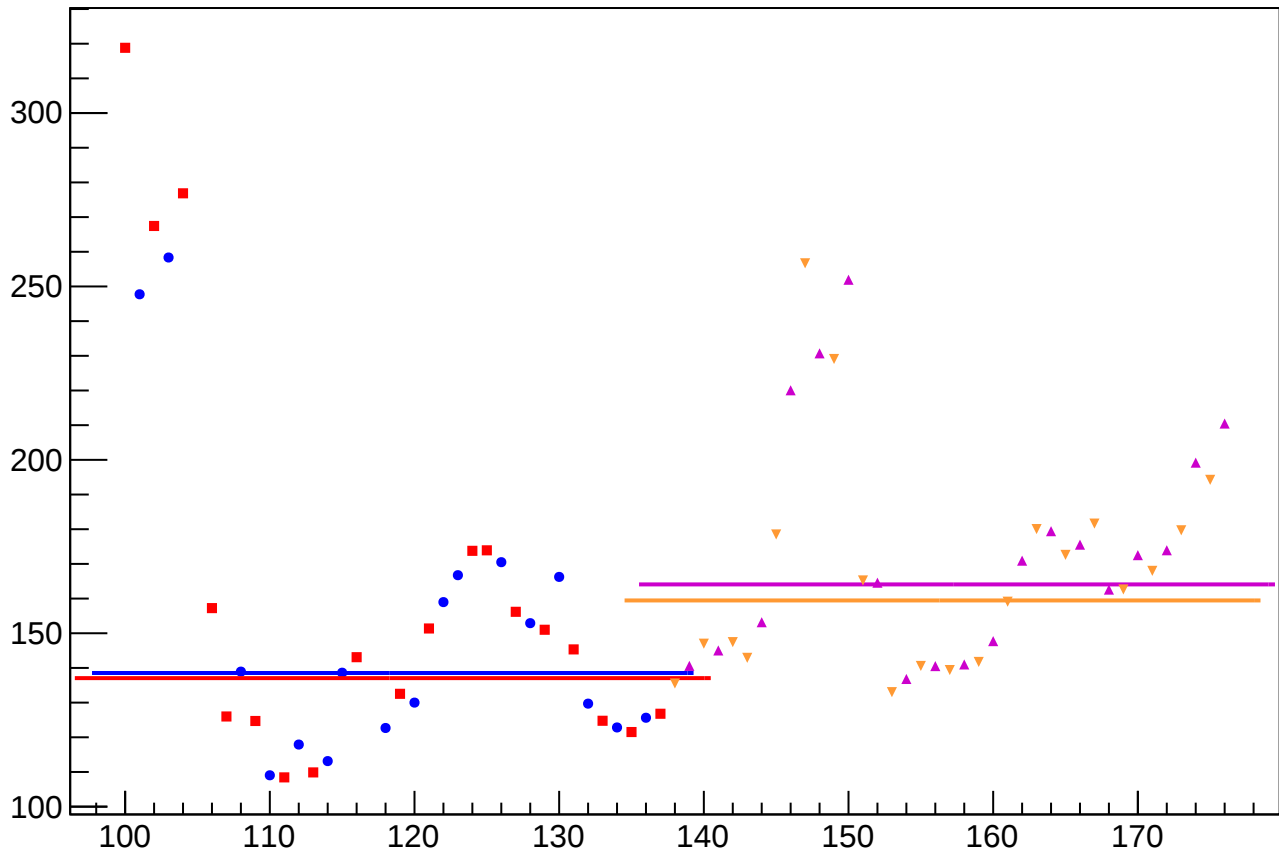
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4268.859 ± 34.542 $\chi^2/\text{NDF}: 49644.6/35$

Out: -2179.632 ± 33.114 $\chi^2/\text{NDF}: 35533.7/38$

All: -3180.186 ± 23.904 $\chi^2/\text{NDF}: 87084.6/74$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 159.461 $\pm$ 0.030 χ^2 /NDF: 742820.6/19

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: 161.670 $\pm$ 0.021 χ^2 /NDF: 1584170.6/38

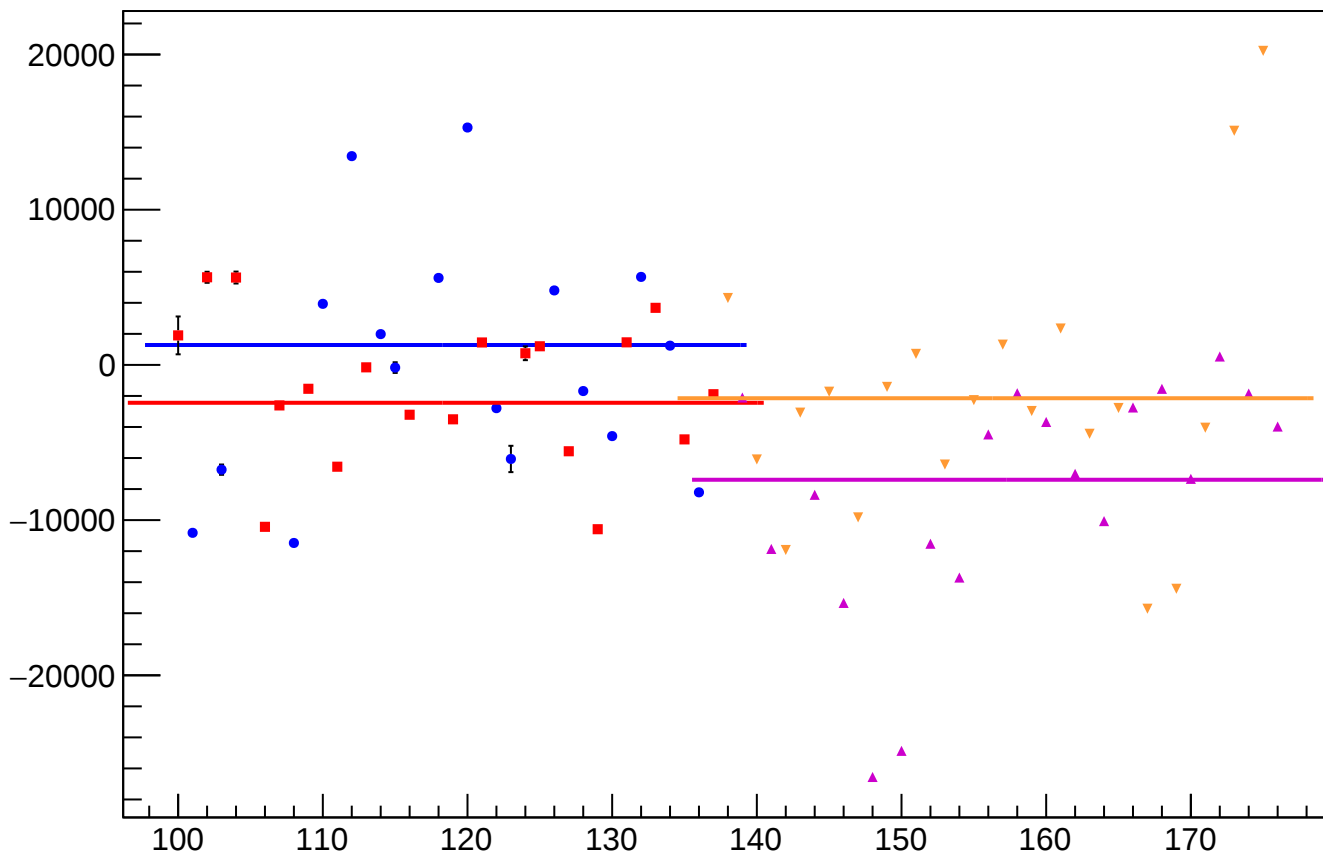
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 154.388 $\pm$ 0.024 χ^2 /NDF: 1756252.7/35

Out: 151.015 $\pm$ 0.023 χ^2 /NDF: 1713256.0/38

All: 152.631 $\pm$ 0.017 χ^2 /NDF: 3479443.5/74

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2147.125+/-37.727 χ^2/NDF :38852.4/19

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: -4646.160+/-27.317 χ^2/NDF : 71924.3/38

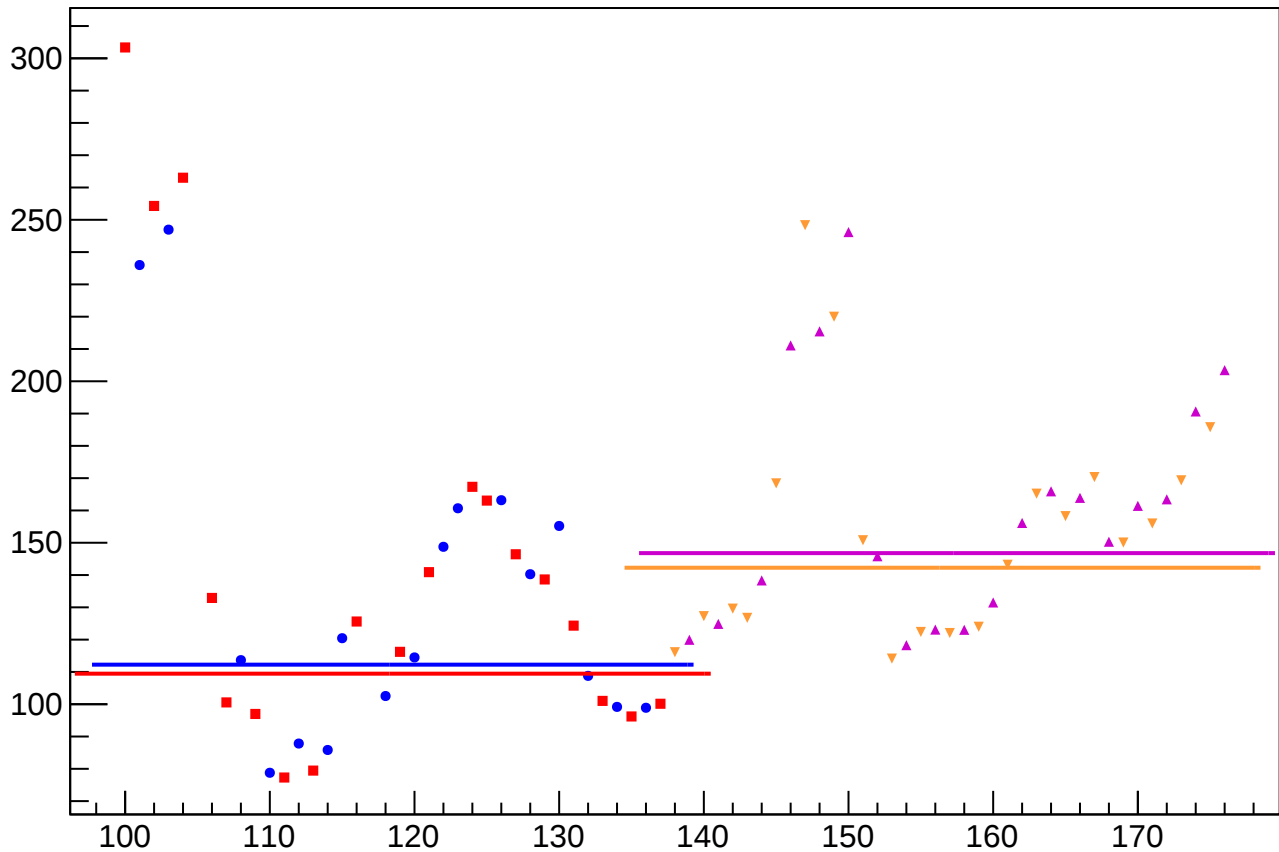
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3756.085+/-30.170 χ^2/NDF :74562.6/35

Out: -2270.395+/-28.719 χ^2/NDF :46555.3/38

All: -2976.636+/-20.802 χ^2/NDF : 122390.1/7

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251 $\pm$ 0.033 χ^2/NDF : 1125537.4/16

Left Out: 142.266 $\pm$ 0.027 χ^2/NDF : 1086204.3/19

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: 144.418 $\pm$ 0.019 χ^2/NDF : 2293021.6/38

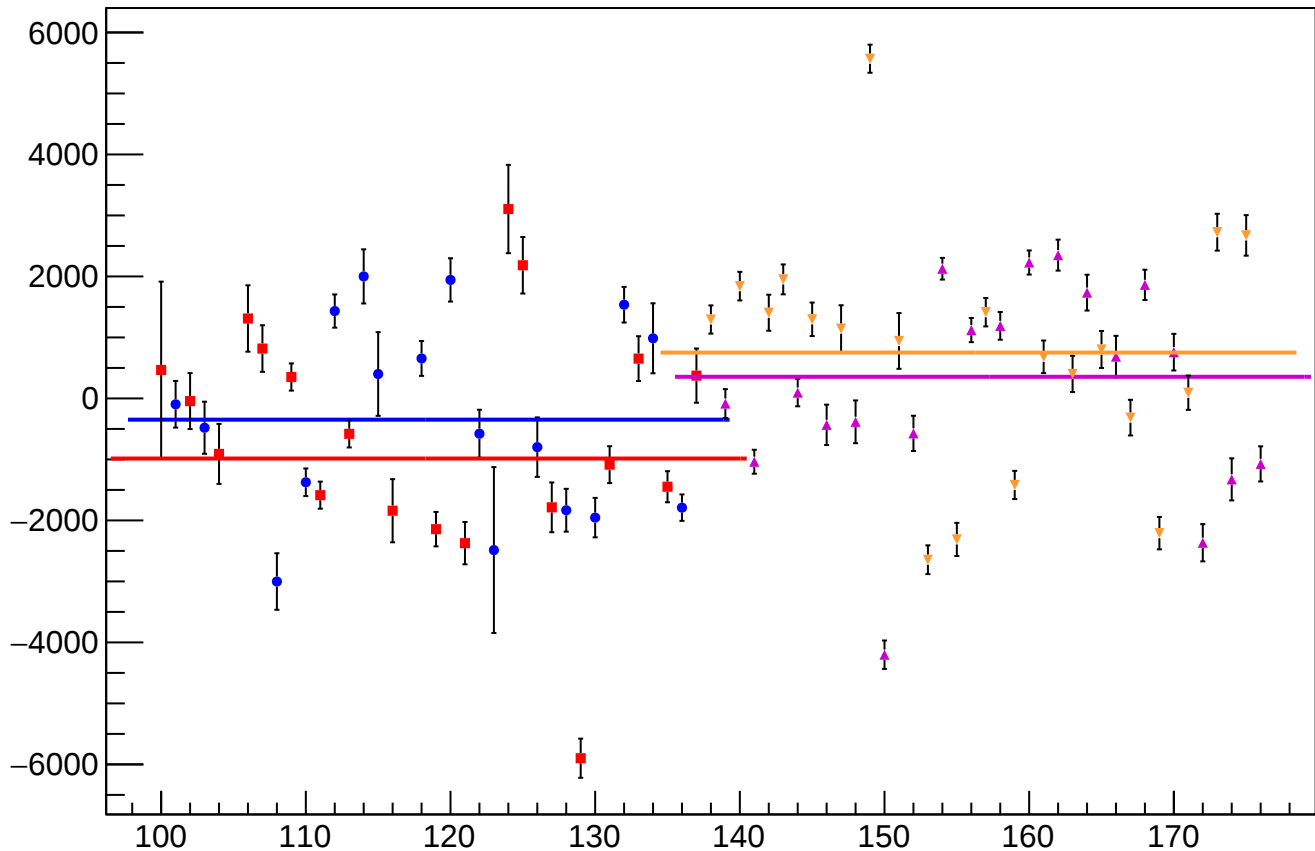
Right: 110.785 $\pm$ 0.023 χ^2/NDF : 2398941.6/35

In: 132.295 $\pm$ 0.021 χ^2/NDF : 2957052.4/35

Out: 128.470 $\pm$ 0.020 χ^2/NDF : 2991793.7/38

All: 130.288 $\pm$ 0.015 χ^2/NDF : 5965709.2/74

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055+/-83.826 χ^2/NDF : 317.3/16

Left Out: 752.044+/-60.622 χ^2/NDF :1149.9/19

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: 541.261+/-41.532 χ^2/NDF : 2100.2/38

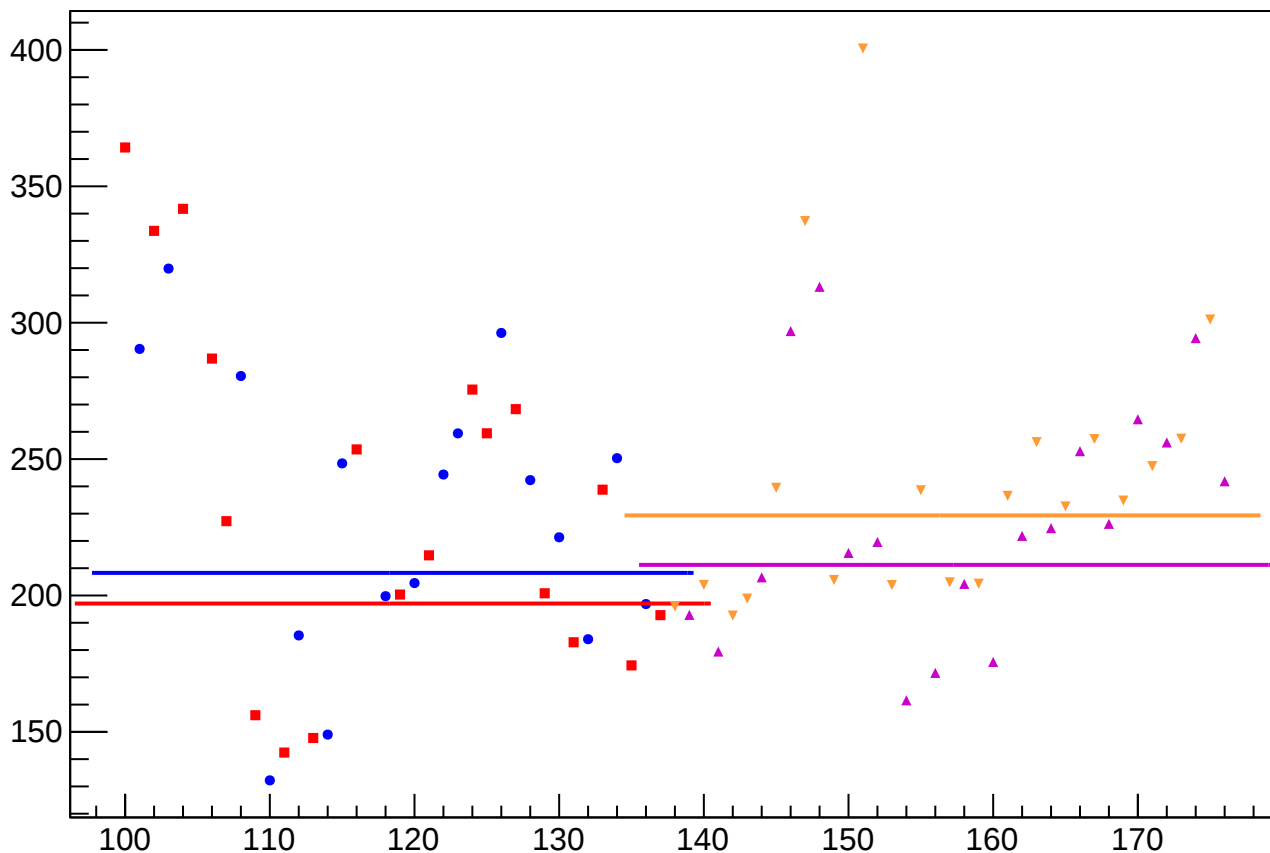
Right: -690.850+/-56.978 χ^2/NDF : 824.9/35

In: 132.505+/-47.144 χ^2/NDF :1292.9/35

Out: 94.491+/-47.792 χ^2/NDF :1937.3/38

All: 113.758+/-33.563 χ^2/NDF : 3230.5/74

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288+/-0.059 χ^2/NDF : 698491.0/16

Left Out: 229.359+/-0.043 χ^2/NDF : 817354.9/19

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: 219.734+/-0.029 χ^2/NDF : 1875780.6/38

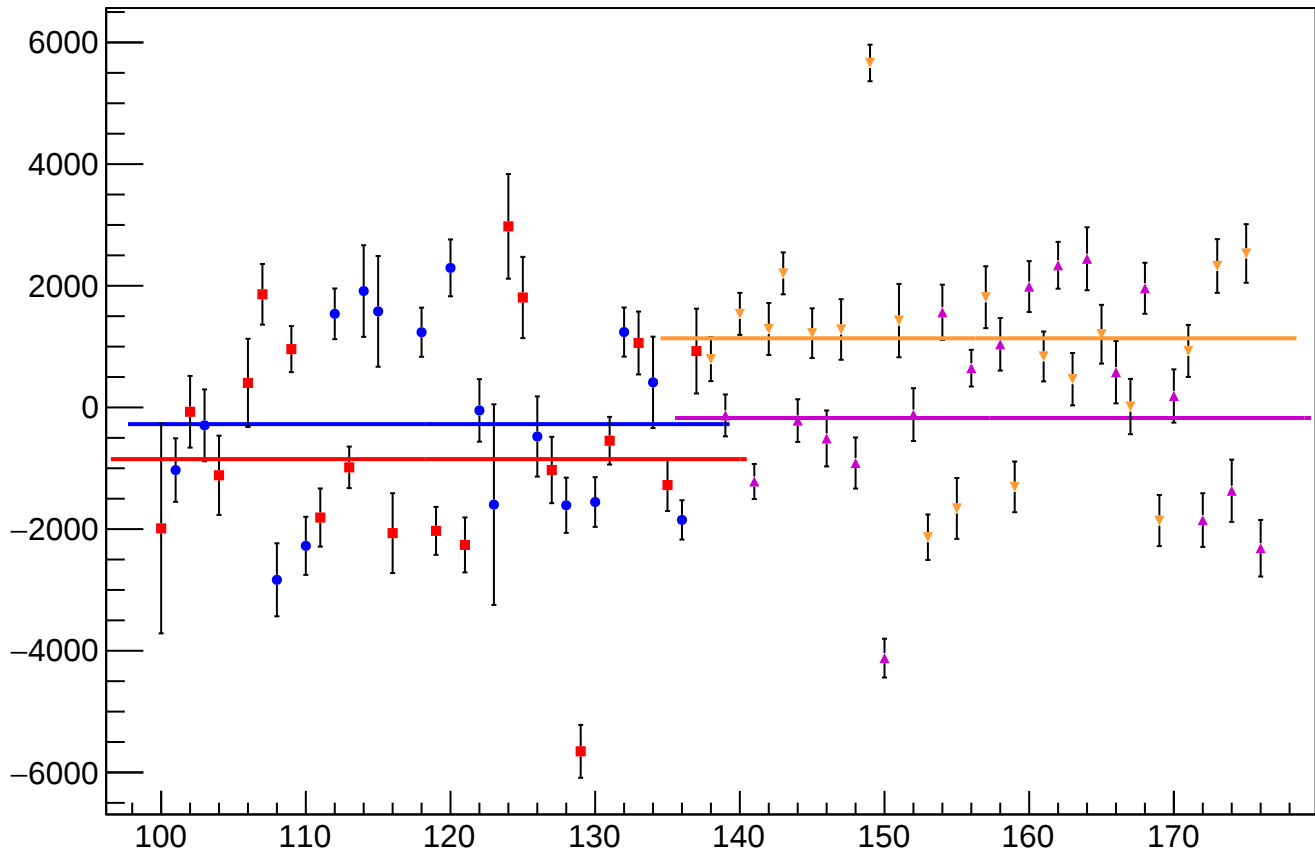
Right: 202.243+/-0.040 χ^2/NDF : 1644610.3/35

In: 210.293+/-0.033 χ^2/NDF : 1663582.1/35

Out: 217.130+/-0.034 χ^2/NDF : 1959136.8/38

All: 213.665+/-0.024 χ^2/NDF : 3643468.7/74

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260±/121.326 χ^2/NDF : 171.6/16

Left Out: 1136.728±/92.997 χ^2/NDF : 459.0/19

Right Out: -849.413±/115.349 χ^2/NDF : 263.3/18

Left In: -173.434±/91.360 χ^2/NDF : 364.3/18

Left: 470.015±/65.173 χ^2/NDF : 924.3/38

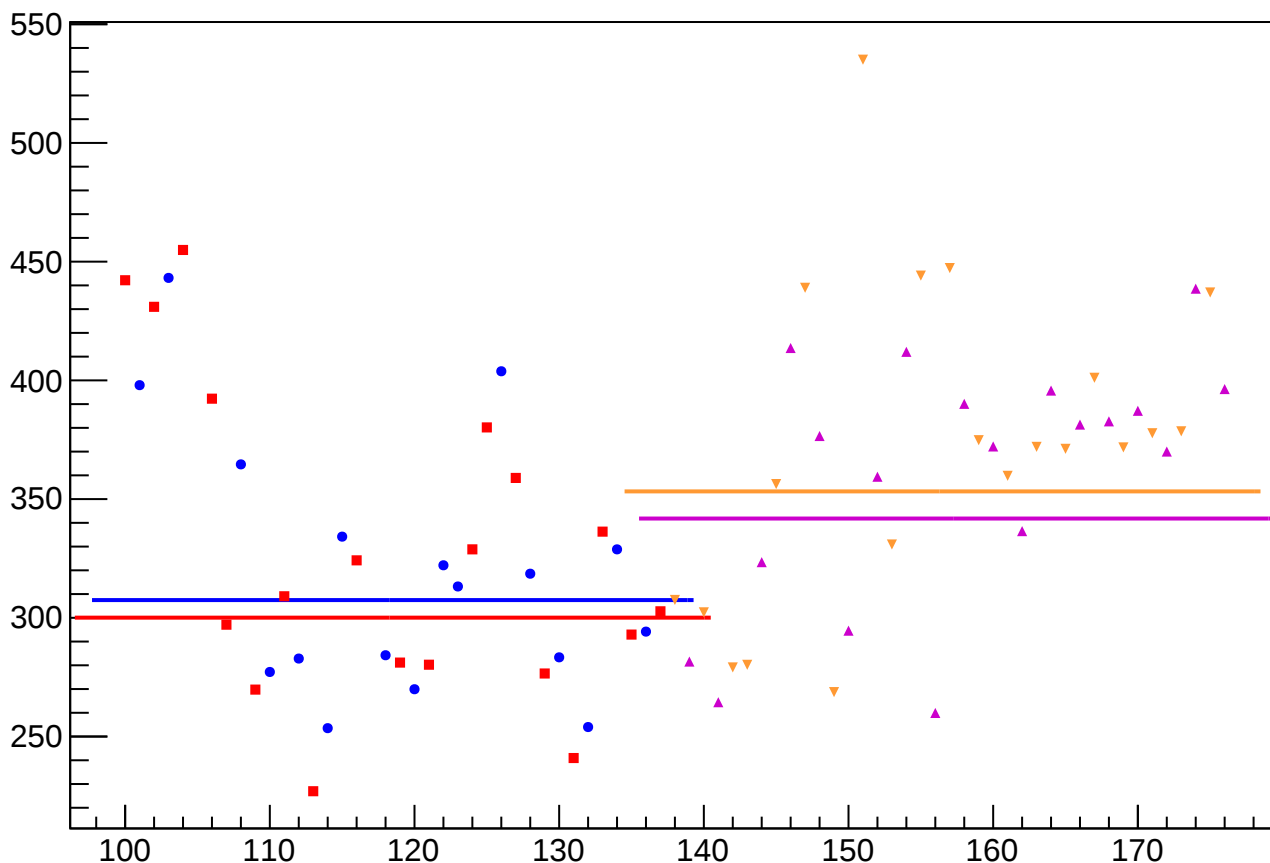
Right: -576.352±/83.597 χ^2/NDF : 446.6/35

In: -209.918±/72.982 χ^2/NDF : 536.3/35

Out: 354.308±/72.398 χ^2/NDF : 901.9/38

All: 74.462±/51.399 χ^2/NDF : 1468.4/74

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2/NDF : 323096.7/16

Left Out: 353.242 $\pm$ 0.066 χ^2/NDF : 879040.7/19

Right Out: 300.069 $\pm$ 0.082 χ^2/NDF : 490398.9/18

Left In: 341.811 $\pm$ 0.065 χ^2/NDF : 733009.2/18

Left: 347.425 $\pm$ 0.046 χ^2/NDF : 1627425.7/38

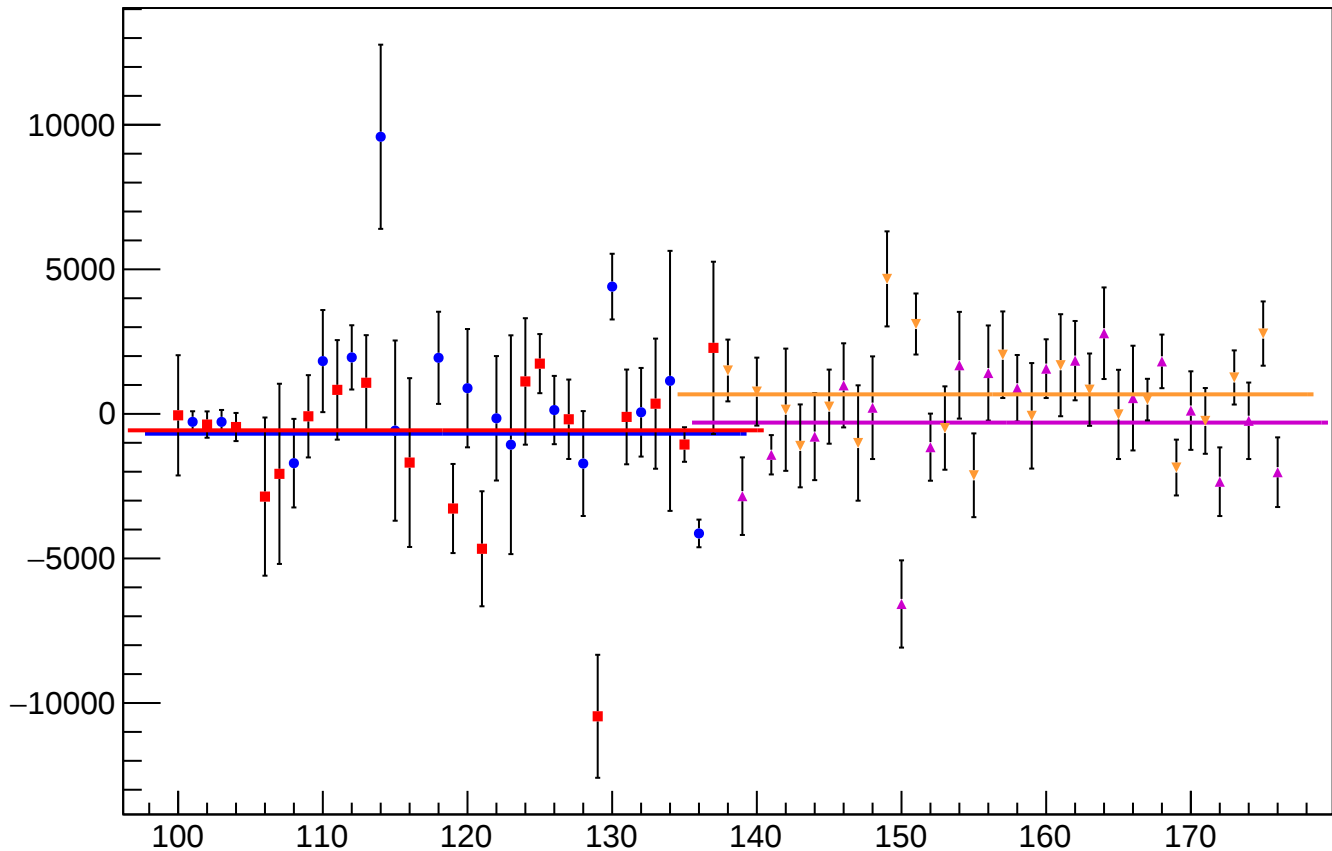
Right: 303.582 $\pm$ 0.059 χ^2/NDF : 817401.9/35

In: 329.384 $\pm$ 0.052 χ^2/NDF : 1158373.0/35

Out: 332.295 $\pm$ 0.051 χ^2/NDF : 1627009.1/38

All: 330.851 $\pm$ 0.036 χ^2/NDF : 2786985.8/74

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2/NDF : 97.4/16

Left Out: 676.167 $\pm$ 274.727 χ^2/NDF :31.7/19

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: 203.149 $\pm$ 197.364 χ^2/NDF : 86.4/38

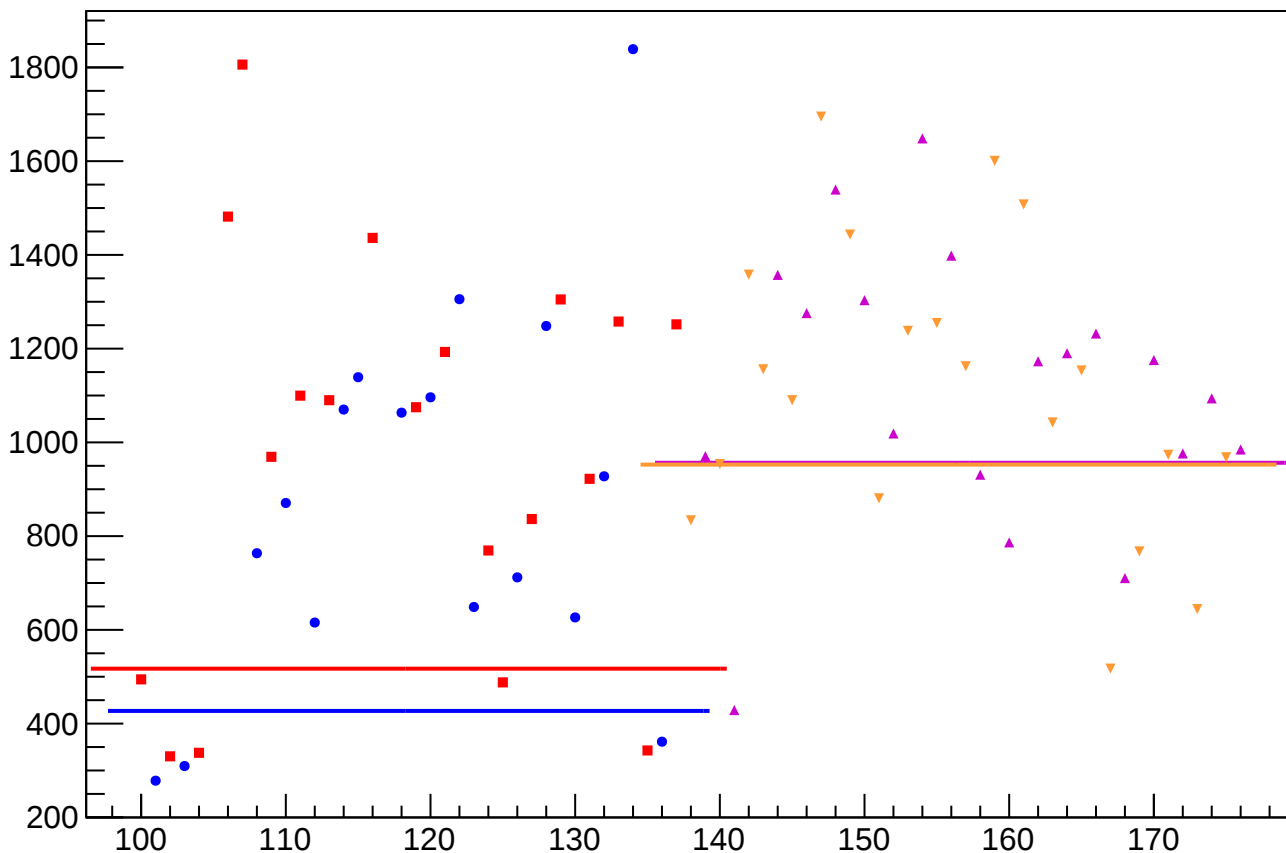
Right: -635.255 $\pm$ 159.106 χ^2/NDF : 137.2/35

In: -548.956 $\pm$ 168.970 χ^2/NDF :147.1/35

Out: -21.608 $\pm$ 182.121 χ^2/NDF :83.0/38

All: -305.008 $\pm$ 123.868 χ^2/NDF : 234.5/74

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 952.606+/-0.194 χ^2/NDF : 2348787.3/19

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: 954.491+/-0.140 χ^2/NDF : 4954473.6/38

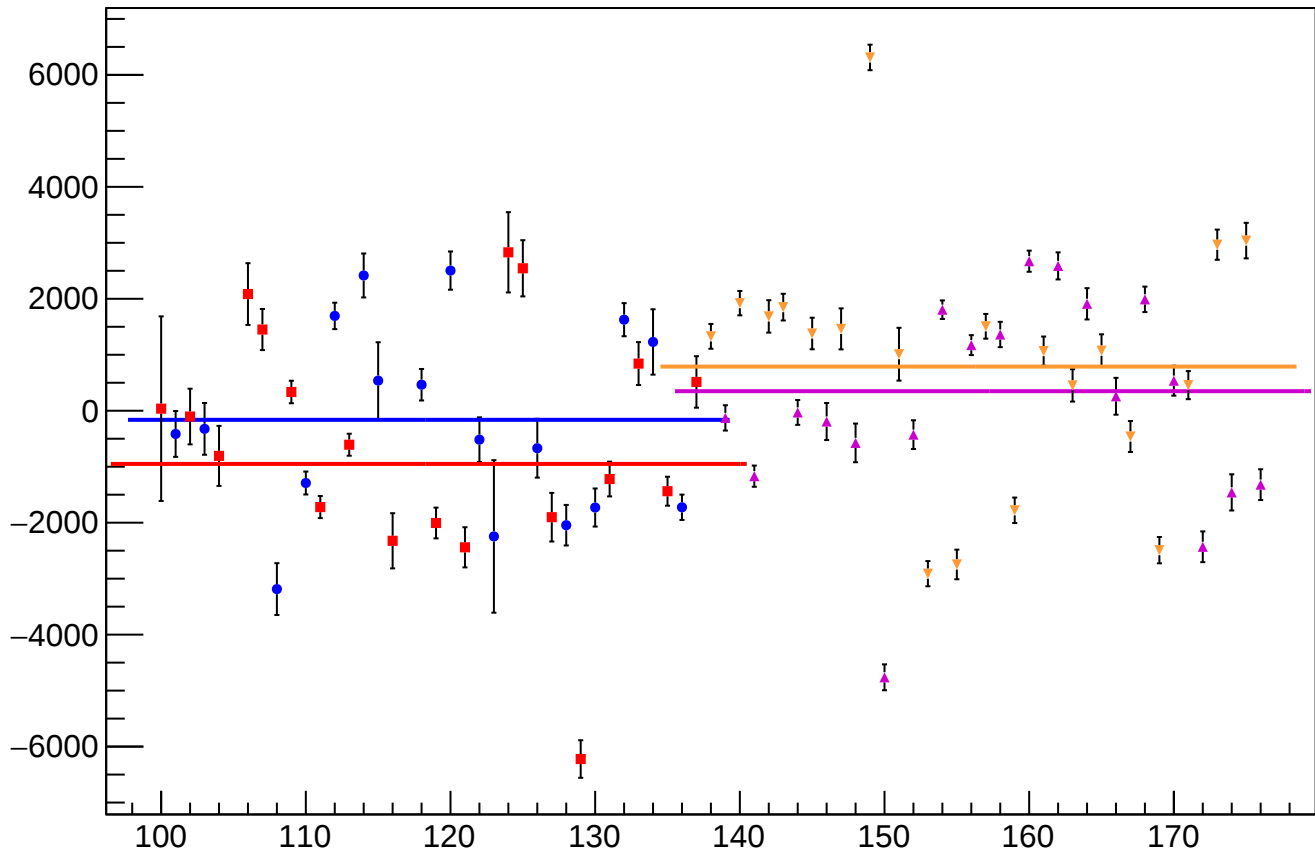
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 614.857+/-0.119 χ^2/NDF : 9965142.1/35

Out: 708.561+/-0.129 χ^2/NDF : 8769397.8/38

All: 658.204+/-0.088 χ^2/NDF : 19019067.9/74

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333 $\pm$ 82.350 χ^2/NDF : 387.6/16

Left Out: 788.973 $\pm$ 57.947 χ^2/NDF :1580.5/19

Right Out: -950.093 $\pm$ 75.133 χ^2/NDF : 539.8/18

Left In: 349.257 $\pm$ 54.004 χ^2/NDF :1187.9/18

Left: 553.644 $\pm$ 39.507 χ^2/NDF : 2799.2/38

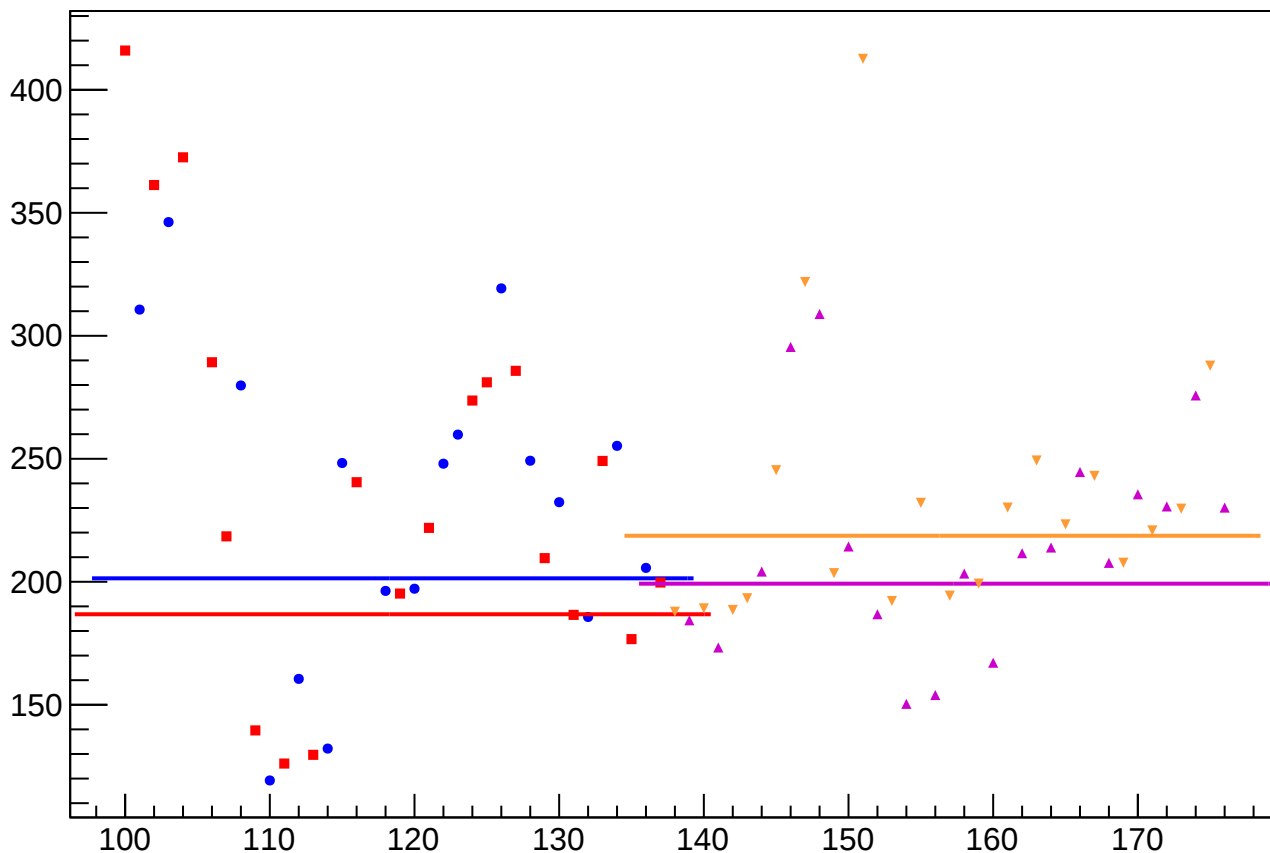
Right: -592.238 $\pm$ 55.504 χ^2/NDF : 977.3/35

In: 195.411 $\pm$ 45.159 χ^2/NDF :1602.5/35

Out: 140.335 $\pm$ 45.885 χ^2/NDF :2456.2/38

All: 168.312 $\pm$ 32.186 χ^2/NDF : 4059.4/74

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 $\pm$ 0.058 χ^2 /NDF: 1056022.1/16

Left Out: 218.715 $\pm$ 0.041 χ^2 /NDF: 859528.6/19

Right Out: 186.797 $\pm$ 0.053 χ^2 /NDF: 1393162.0/18

Left In: 199.232 $\pm$ 0.038 χ^2 /NDF: 1044324.7/18

Left: 208.288 $\pm$ 0.028 χ^2 /NDF: 2024856.3/38

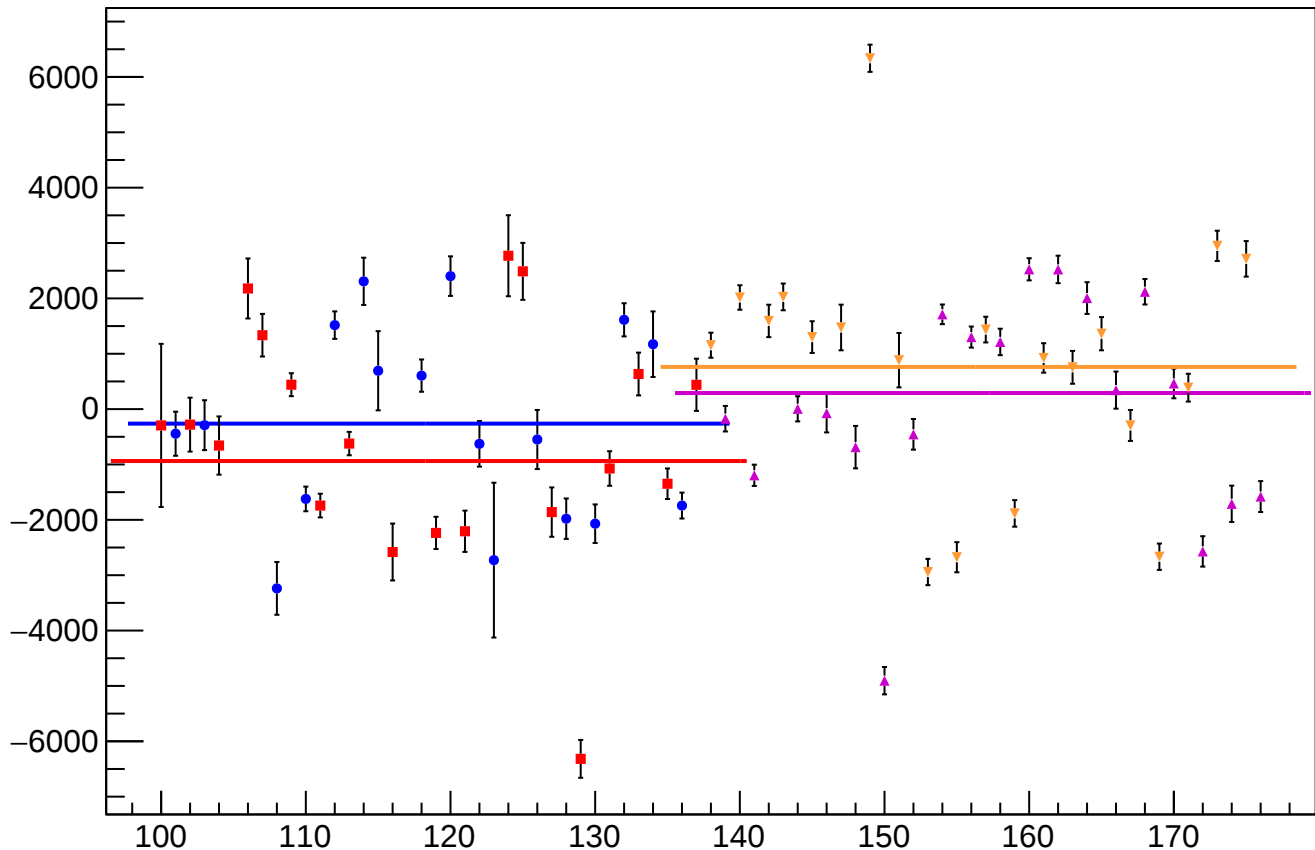
Right: 193.435 $\pm$ 0.039 χ^2 /NDF: 2483546.7/35

In: 199.887 $\pm$ 0.032 χ^2 /NDF: 2101324.6/35

Out: 206.811 $\pm$ 0.032 χ^2 /NDF: 2479005.6/38

All: 203.293 $\pm$ 0.023 χ^2 /NDF: 4603462.9/74

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324+/-85.433 χ^2/NDF : 368.7/16

Left Out: 761.971+/-59.691 χ^2/NDF :1454.3/19

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: 512.064+/-40.907 χ^2/NDF : 2611.4/38

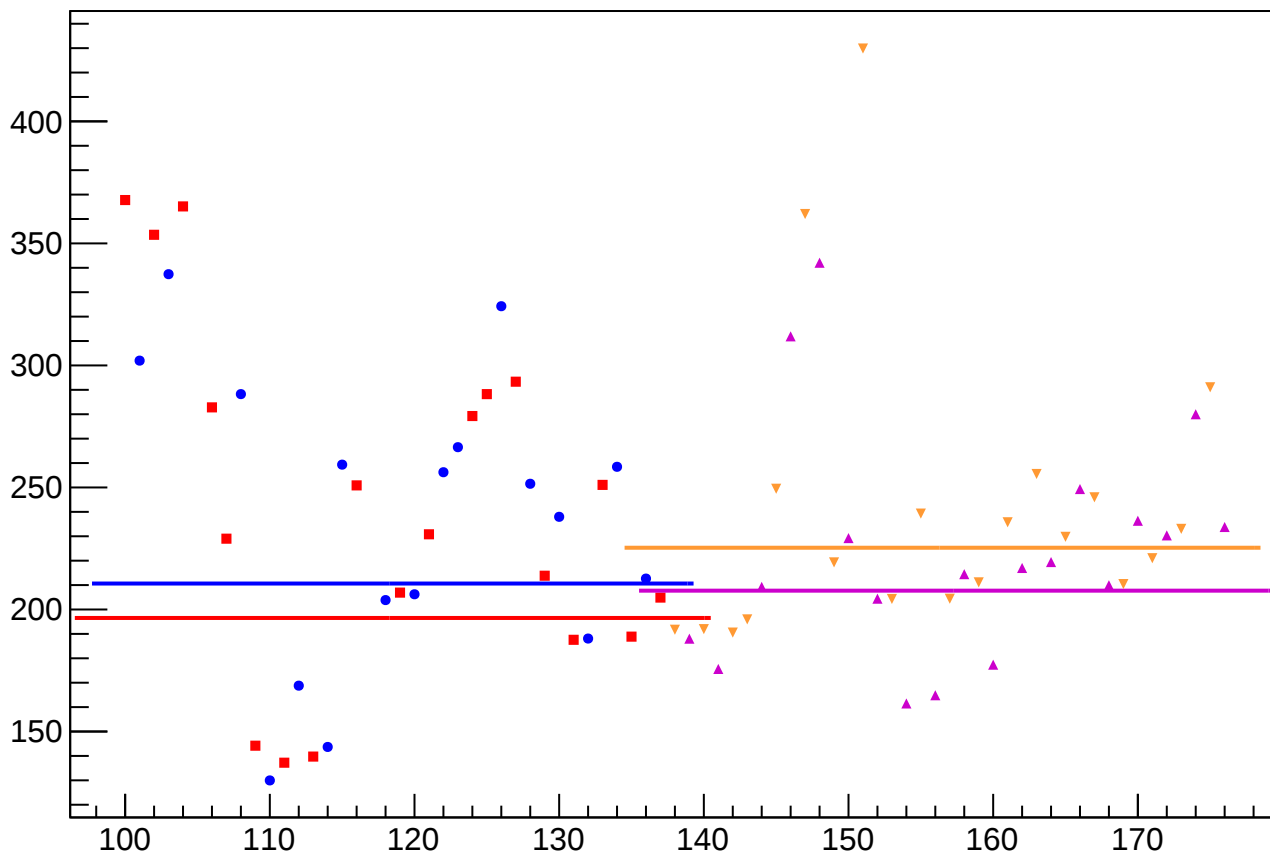
Right: -628.795+/-57.777 χ^2/NDF : 924.5/35

In: 123.841+/-46.935 χ^2/NDF :1522.0/35

Out: 138.606+/-47.500 χ^2/NDF :2273.6/38

All: 131.135+/-33.386 χ^2/NDF : 3795.7/74

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636 $\pm$ 0.060 χ^2 /NDF: 875776.4/16

Left Out: 225.302 $\pm$ 0.042 χ^2 /NDF: 902544.9/19

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: 215.974 $\pm$ 0.029 χ^2 /NDF: 1977994.6/38

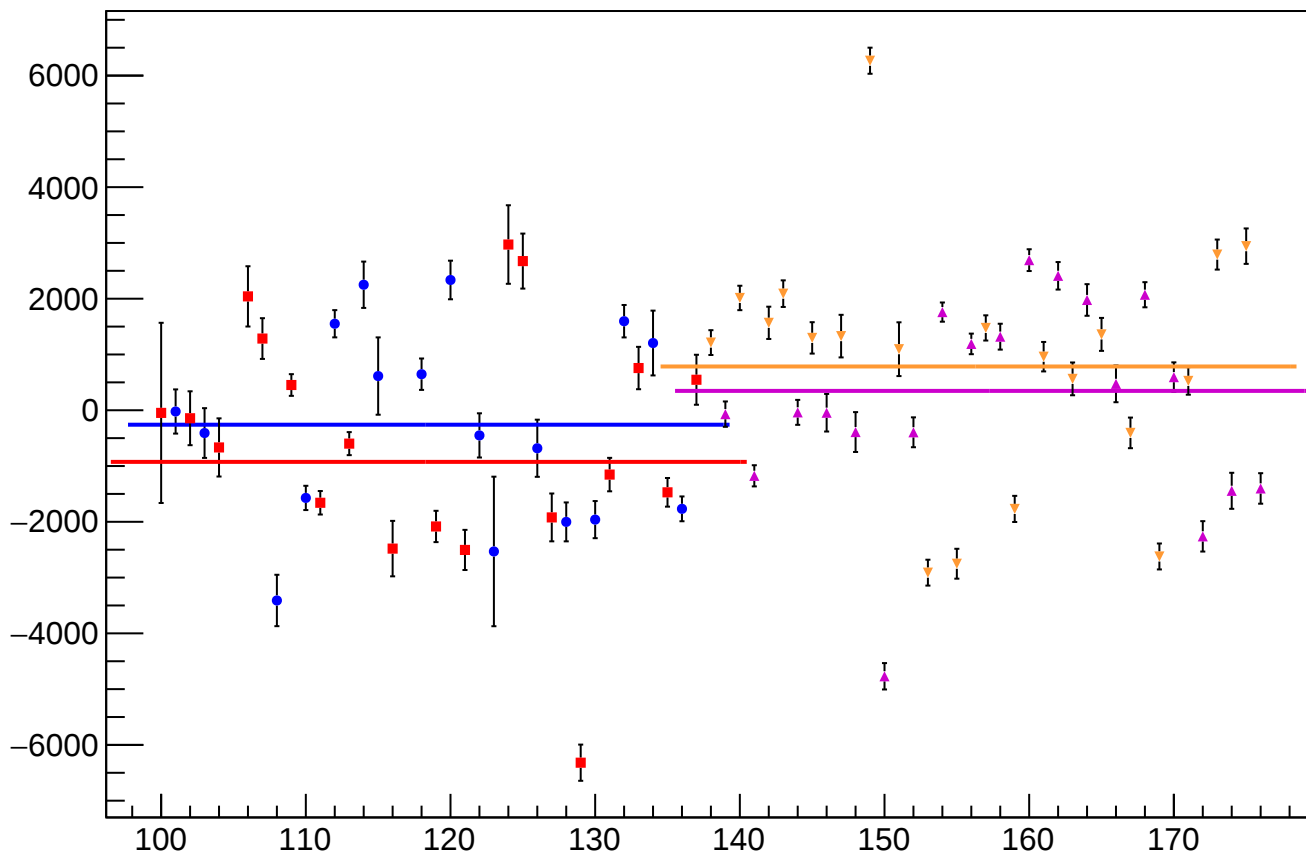
Right: 202.981 $\pm$ 0.041 χ^2 /NDF: 2110460.6/35

In: 208.597 $\pm$ 0.033 χ^2 /NDF: 1860782.6/35

Out: 214.749 $\pm$ 0.034 χ^2 /NDF: 2278076.9/38

All: 211.636 $\pm$ 0.024 χ^2 /NDF: 4155835.4/74

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139+/-82.802 χ^2/NDF : 391.2/16

Left Out: 784.737+/-58.512 χ^2/NDF :1524.0/19

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: 551.937+/-40.031 χ^2/NDF : 2681.9/38

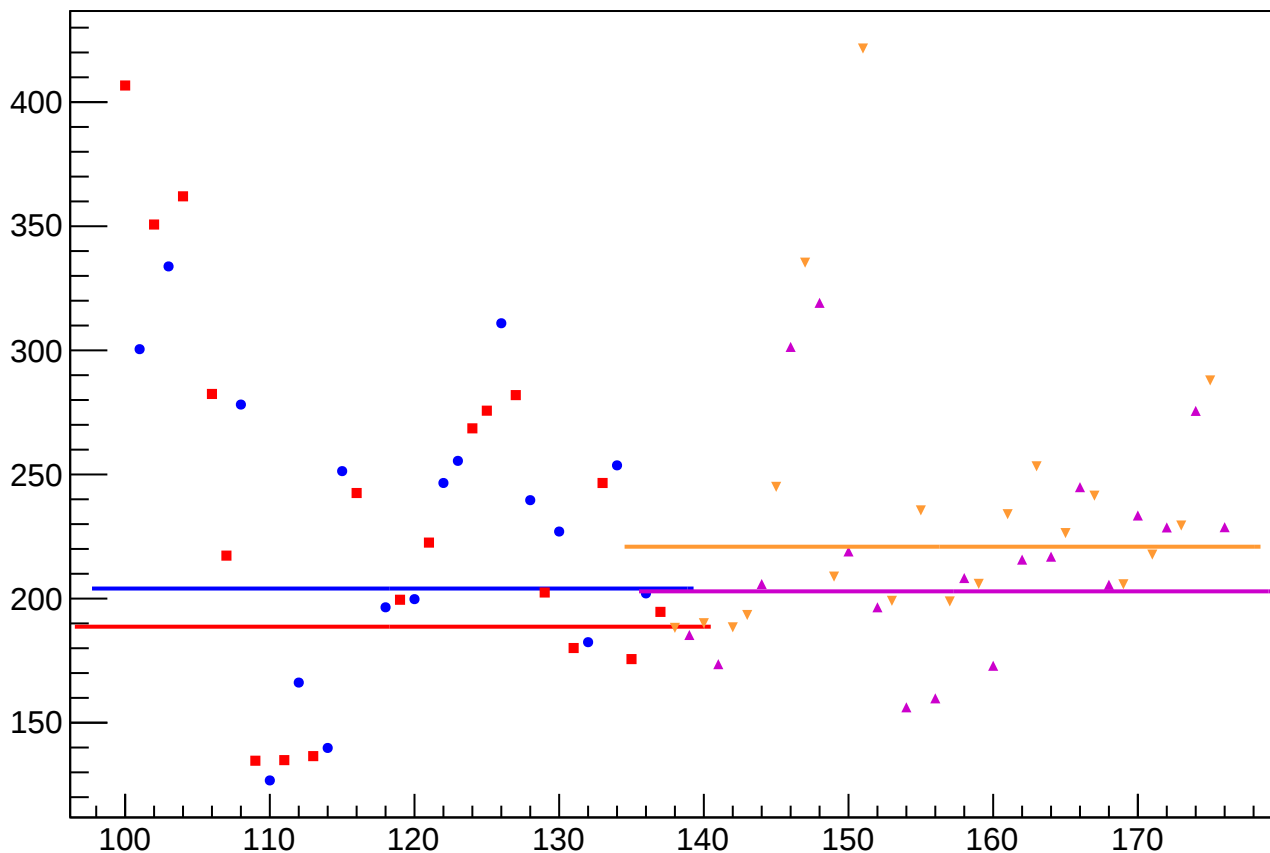
Right: -622.995+/-55.791 χ^2/NDF : 1008.5/35

In: 162.025+/-45.749 χ^2/NDF :1556.6/35

Out: 143.011+/-46.250 χ^2/NDF :2426.5/38

All: 152.621+/-32.525 χ^2/NDF : 3983.2/74

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051 $\pm$ 0.059 χ^2/NDF : 868423.0/16

Left Out: 220.903 $\pm$ 0.041 χ^2/NDF :872700.1/19

Right Out: 188.681 $\pm$ 0.053 χ^2/NDF : 1251107.4/18

Left In: 202.913 $\pm$ 0.039 χ^2/NDF :964052.9/18

Left: 211.333 $\pm$ 0.028 χ^2/NDF : 1937319.4/38

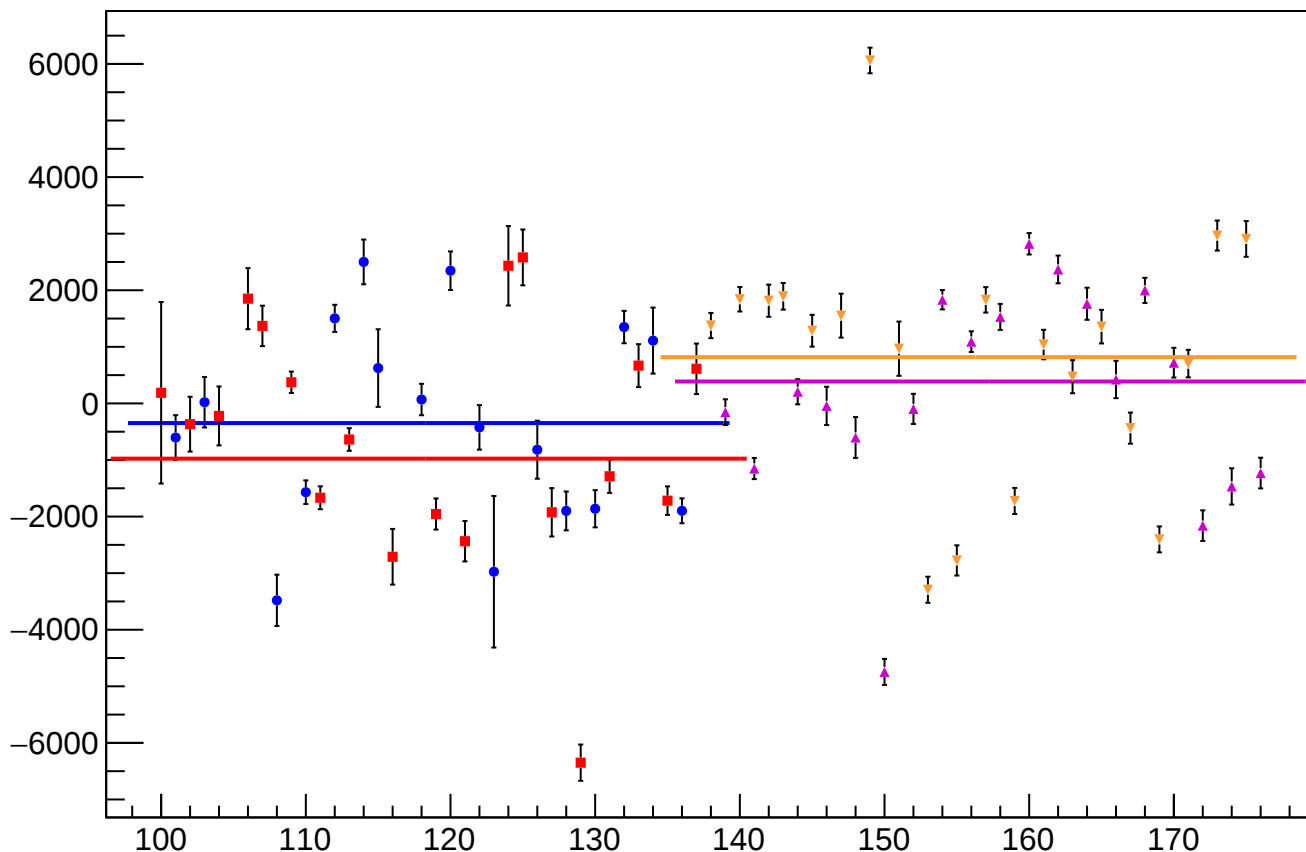
Right: 195.659 $\pm$ 0.039 χ^2/NDF : 2157160.3/35

In: 203.260 $\pm$ 0.032 χ^2/NDF :1832738.6/35

Out: 208.812 $\pm$ 0.033 χ^2/NDF :2351387.4/38

All: 206.006 $\pm$ 0.023 χ^2/NDF : 4198693.6/74

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 χ^2/NDF : 399.1/16

Left Out: 818.001 ± 57.965 χ^2/NDF : 1578.6/19

Right Out: -976.286 ± 73.889 χ^2/NDF : 585.7/18

Left In: 387.318 ± 54.371 χ^2/NDF : 1160.7/18

Left: 588.895 ± 39.656 χ^2/NDF : 2768.7/38

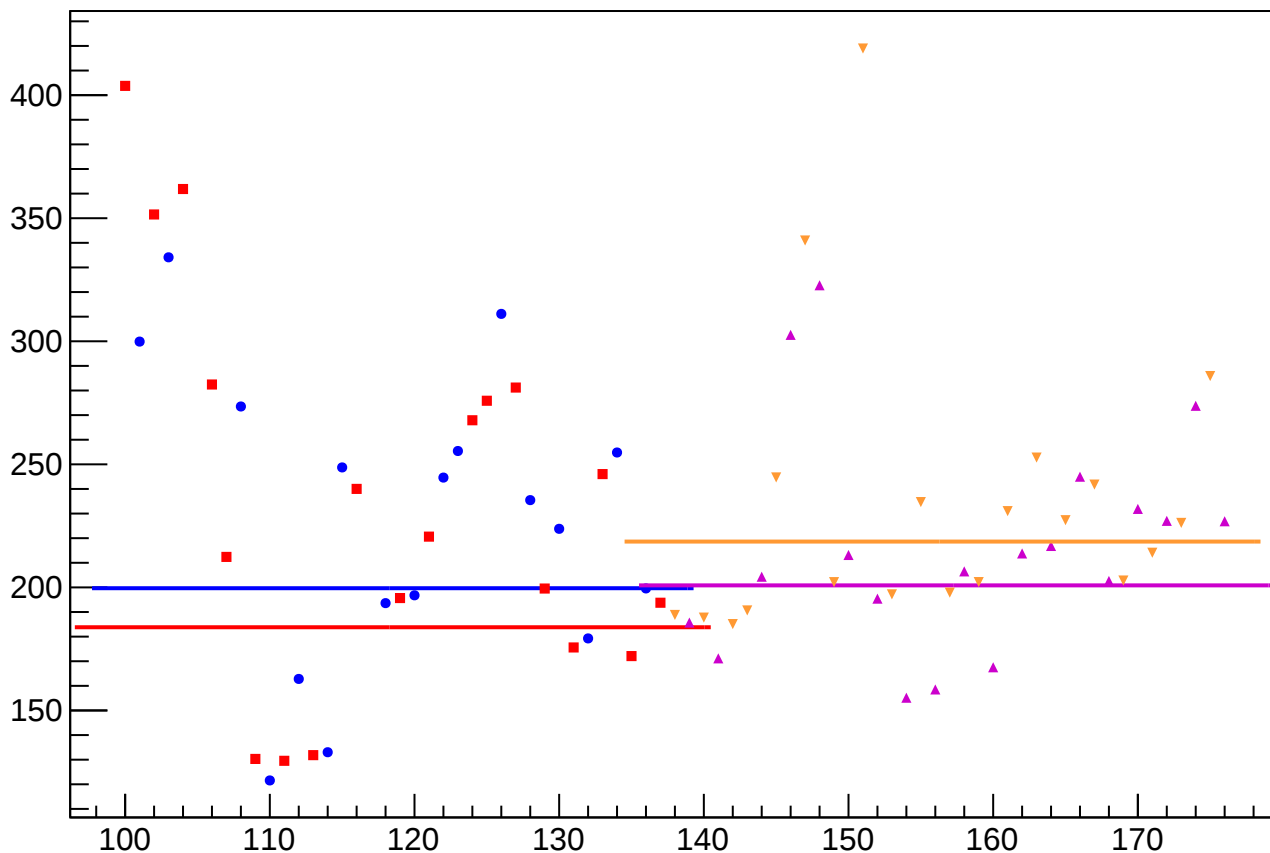
Right: -691.802 ± 54.685 χ^2/NDF : 1017.5/35

In: 160.381 ± 45.198 χ^2/NDF : 1616.2/35

Out: 134.439 ± 45.606 χ^2/NDF : 2529.3/38

All: 147.526 ± 32.103 χ^2/NDF : 4145.7/74

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 ± 0.058 χ^2/NDF : 943155.1/16

Left Out: 218.622 ± 0.041 χ^2/NDF : 910482.5/19

Right Out: 183.808 ± 0.052 χ^2/NDF : 1349625.1/18

Left In: 200.823 ± 0.038 χ^2/NDF : 1003562.9/18

Left: 209.154 ± 0.028 χ^2/NDF : 2014362.4/38

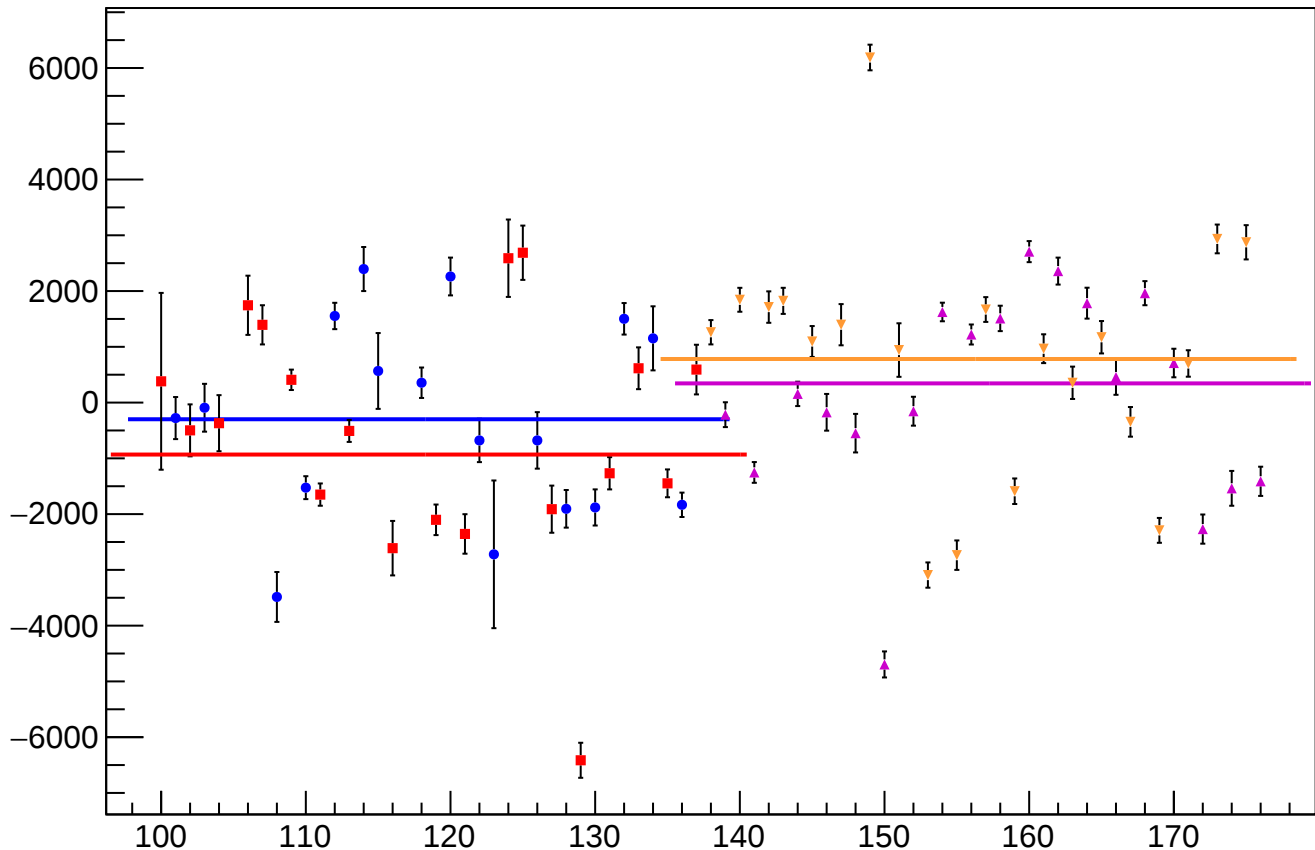
Right: 190.981 ± 0.039 χ^2/NDF : 2334457.4/35

In: 200.467 ± 0.032 χ^2/NDF : 1946996.4/35

Out: 205.359 ± 0.032 χ^2/NDF : 2534955.8/38

All: 202.891 ± 0.023 χ^2/NDF : 4493564.8/74

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 χ^2/NDF : 406.6/16

Left Out: 781.683 ± 57.102 χ^2/NDF : 1538.4/19

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: 548.162 ± 38.989 χ^2/NDF : 2729.6/38

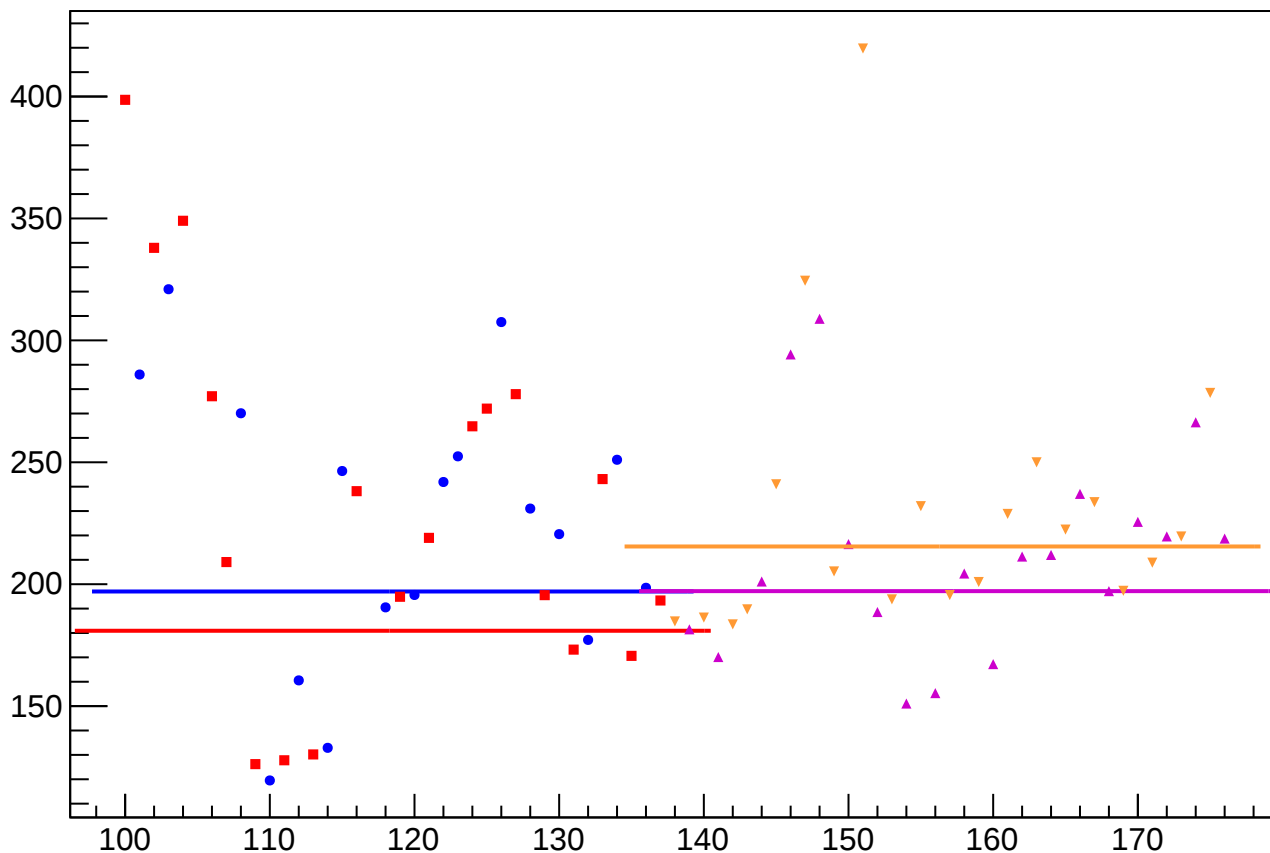
Right: -646.004 ± 53.873 χ^2/NDF : 1055.6/35

In: 146.694 ± 44.422 χ^2/NDF : 1611.0/35

Out: 128.458 ± 44.918 χ^2/NDF : 2496.5/38

All: 137.677 ± 31.585 χ^2/NDF : 4107.6/74

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 215.470+/-0.040 χ^2/NDF : 877293.9/19

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: 205.696+/-0.028 χ^2/NDF : 1947041.1/38

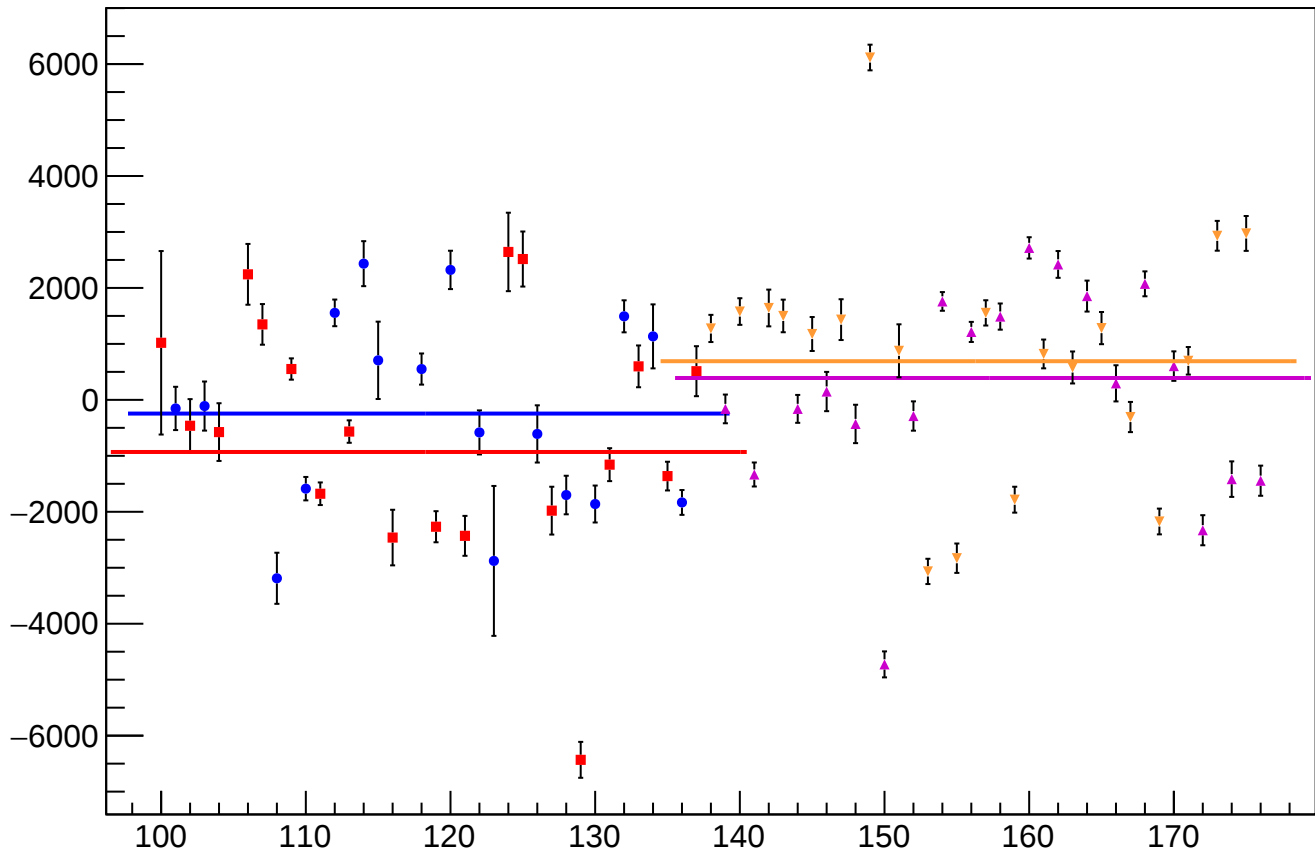
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 197.114+/-0.031 χ^2/NDF : 1871889.1/35

Out: 202.294+/-0.032 χ^2/NDF : 2502328.5/38

All: 199.675+/-0.022 χ^2/NDF : 4387663.1/74

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 690.778 ± 59.451 χ^2/NDF : 1485.3/19

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: 529.725 ± 40.470 χ^2/NDF : 2668.8/38

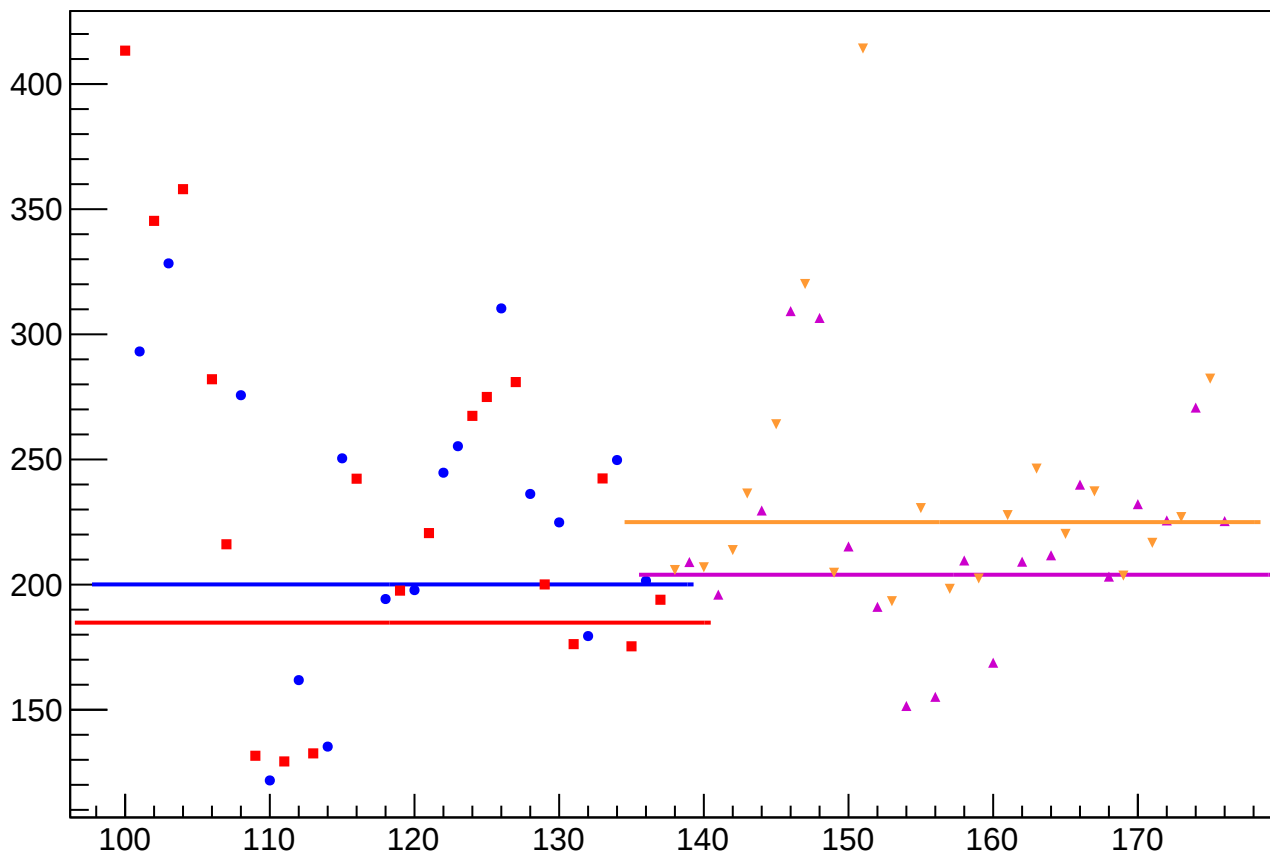
Right: -619.742 ± 54.837 χ^2/NDF : 1040.0/35

In: 190.198 ± 45.711 χ^2/NDF : 1602.9/35

Out: 56.662 ± 46.397 χ^2/NDF : 2386.1/38

All: 124.425 ± 32.562 χ^2/NDF : 3993.2/74

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078 ± 0.058 $\chi^2/\text{NDF}: 918309.2/16$

Left Out: 224.973 ± 0.042 $\chi^2/\text{NDF}: 723970.2/19$

Right Out: 184.807 ± 0.052 $\chi^2/\text{NDF}: 1318267.6/18$

Left In: 203.947 ± 0.039 $\chi^2/\text{NDF}: 972051.8/18$

Left: 213.690 ± 0.029 $\chi^2/\text{NDF}: 1830264.8/38$

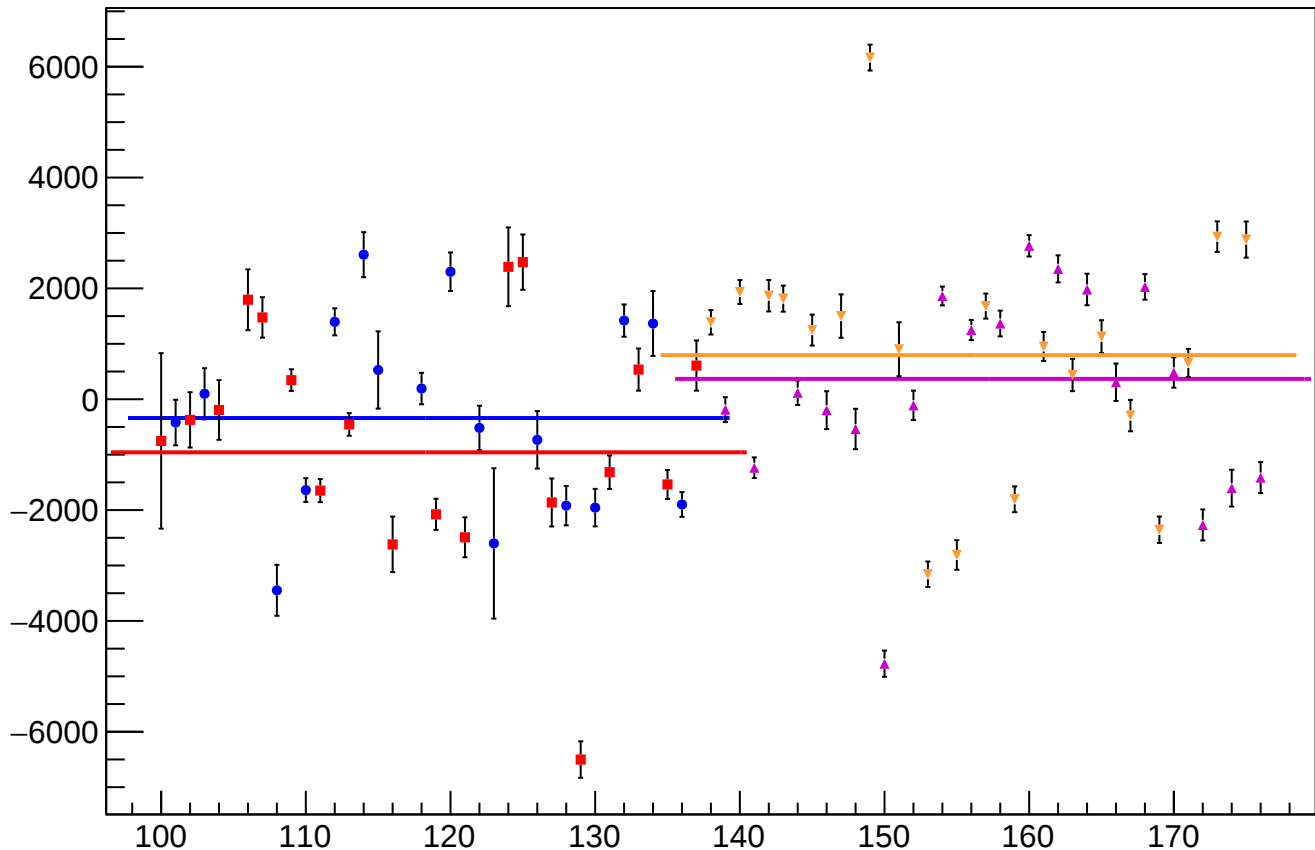
Right: 191.739 ± 0.039 $\chi^2/\text{NDF}: 2275022.2/35$

In: 202.727 ± 0.032 $\chi^2/\text{NDF}: 1893454.3/35$

Out: 209.271 ± 0.033 $\chi^2/\text{NDF}: 2399123.7/38$

All: 205.950 ± 0.023 $\chi^2/\text{NDF}: 4312767.6/74$

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966 $\pm$ 83.123 χ^2/NDF : 389.5/16

Left Out: 796.138 $\pm$ 58.584 χ^2/NDF :1515.6/19

Right Out: -957.615 $\pm$ 75.749 χ^2/NDF : 570.3/18

Left In: 367.088 $\pm$ 54.877 χ^2/NDF :1155.3/18

Left: 567.612 $\pm$ 40.050 χ^2/NDF : 2699.4/38

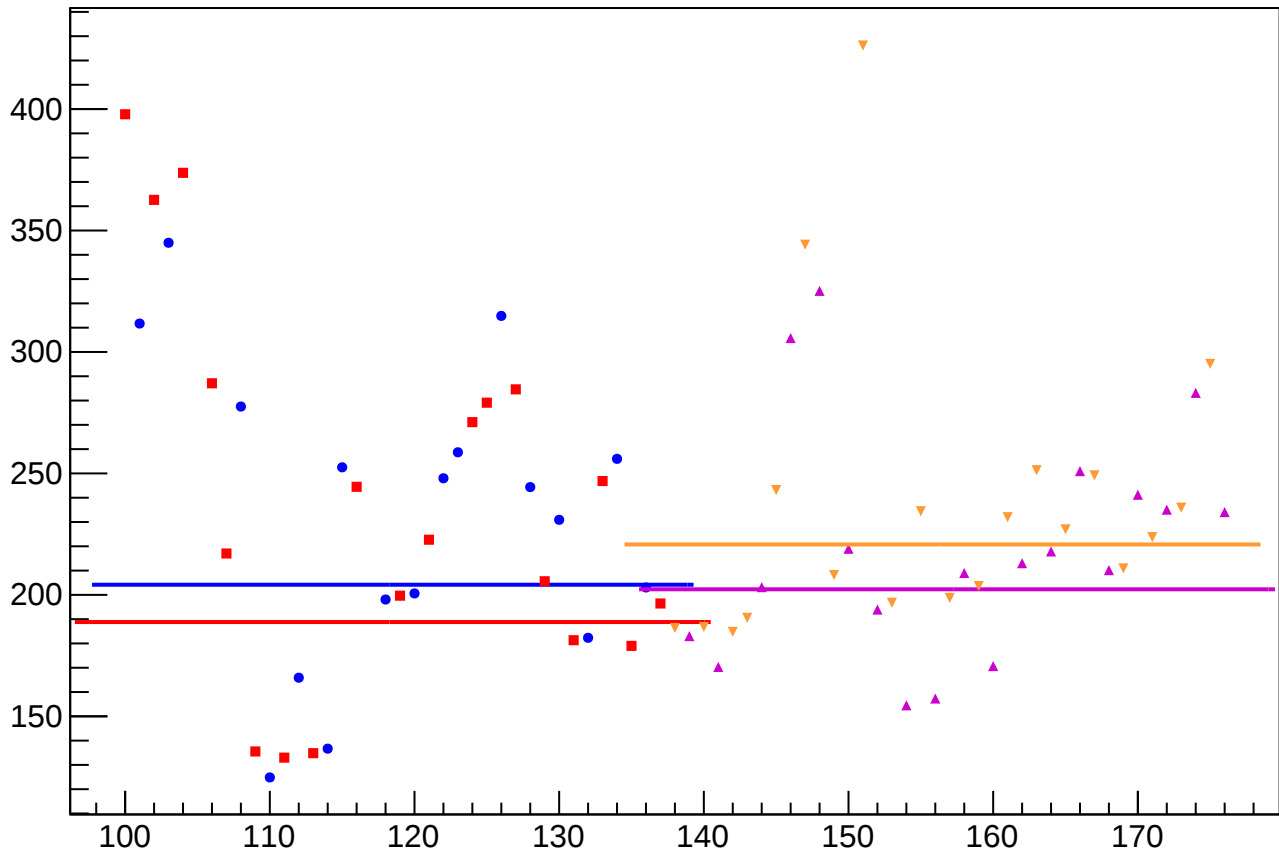
Right: -676.943 $\pm$ 55.988 χ^2/NDF : 990.0/35

In: 152.764 $\pm$ 45.797 χ^2/NDF :1595.0/35

Out: 139.758 $\pm$ 46.341 χ^2/NDF :2421.3/38

All: 146.338 $\pm$ 32.574 χ^2/NDF : 4016.3/74

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 220.749+/-0.041 χ^2/NDF : 953604.5/19

Right Out: 188.821+/-0.054 χ^2/NDF : 1314891.2/18

Left In: 202.295+/-0.039 χ^2/NDF : 1097385.7/18

Left: 210.920+/-0.028 χ^2/NDF : 2156691.6/38

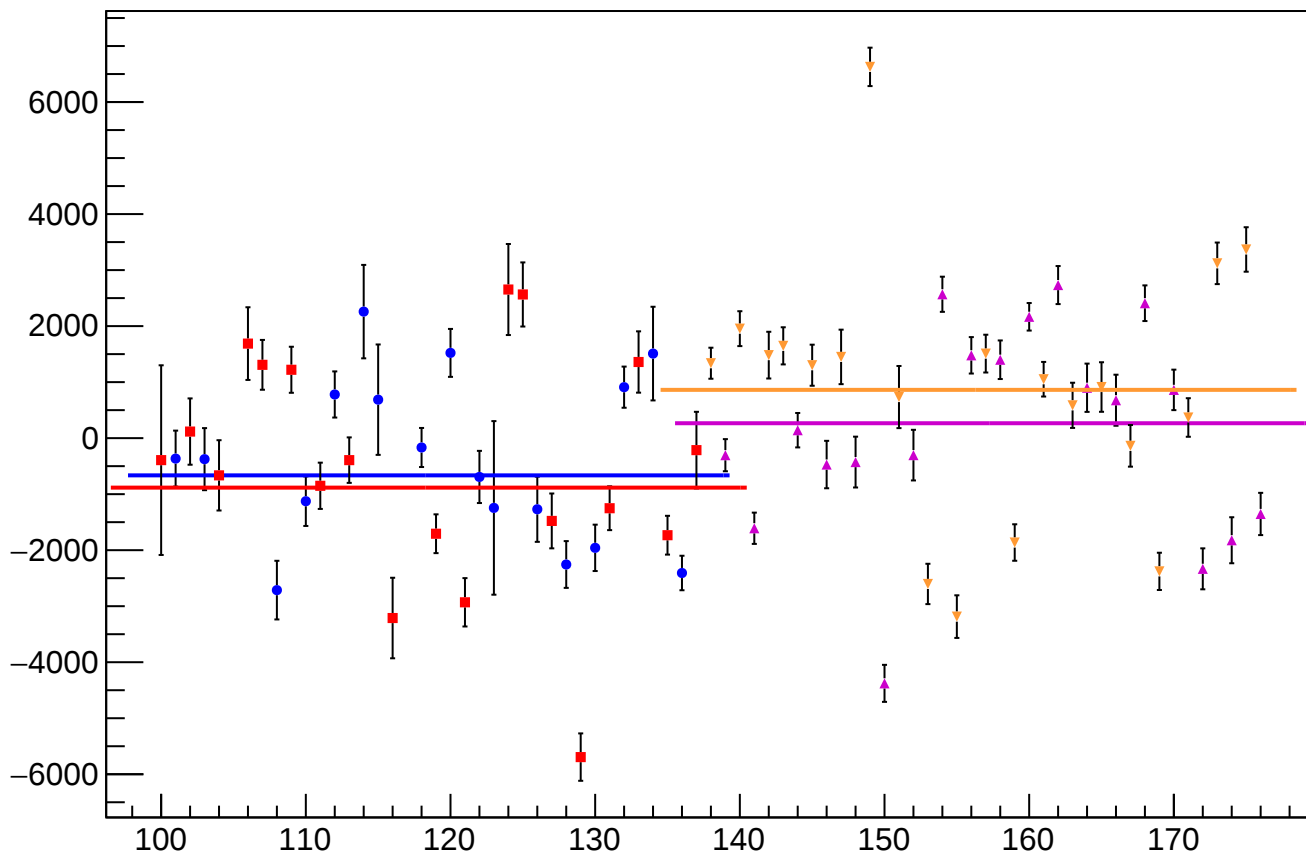
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 202.866+/-0.032 χ^2/NDF : 2045536.4/35

Out: 208.799+/-0.033 χ^2/NDF : 2490835.9/38

All: 205.798+/-0.023 χ^2/NDF : 4552959.6/74

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383 ± 113.949 $\chi^2/\text{NDF}: 154.3/16$

Left Out: 861.983 ± 80.445 $\chi^2/\text{NDF}: 770.4/19$

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: 557.519 ± 56.252 $\chi^2/\text{NDF}: 1388.9/38$

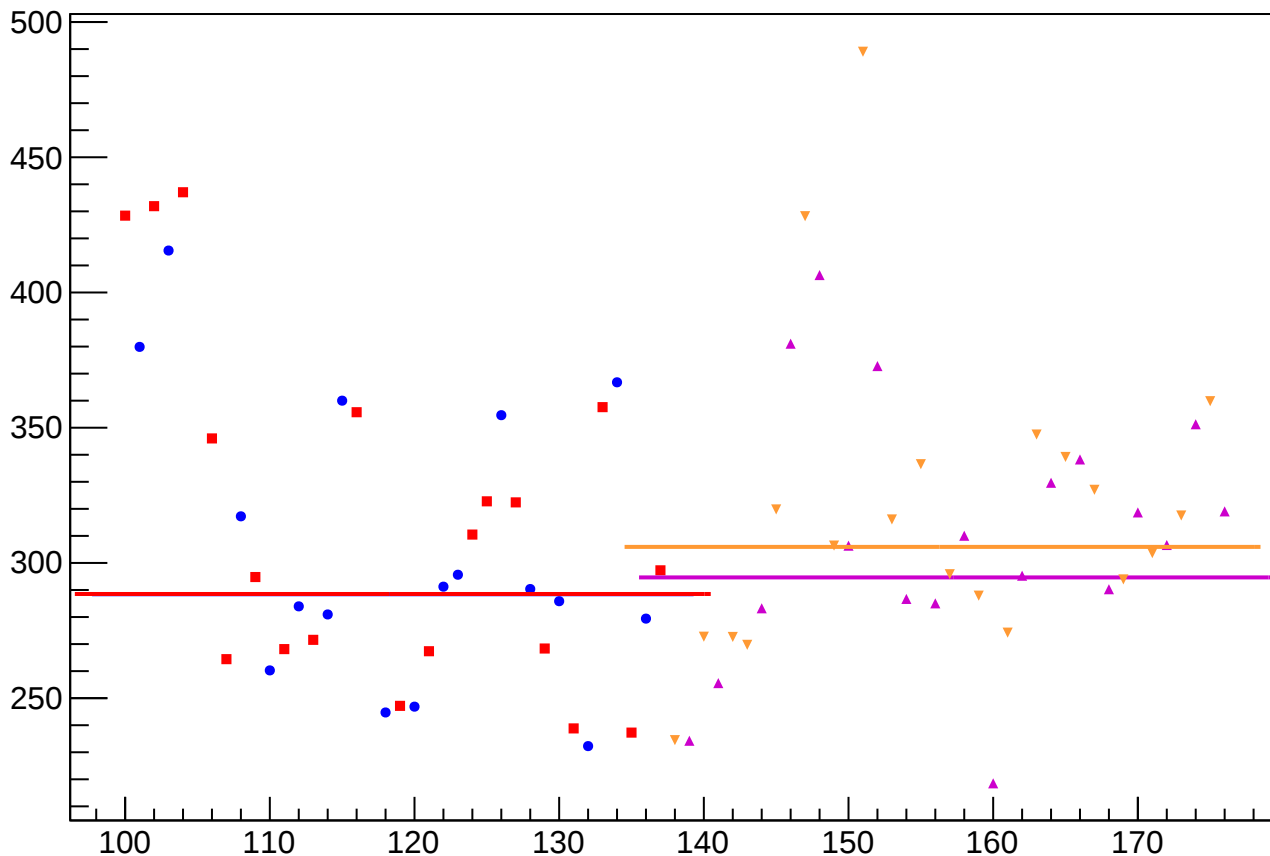
Right: -776.811 ± 79.465 $\chi^2/\text{NDF}: 476.3/35$

In: -34.274 ± 64.750 $\chi^2/\text{NDF}: 790.0/35$

Out: 260.097 ± 65.112 $\chi^2/\text{NDF}: 1252.8/38$

All: 112.090 ± 45.913 $\chi^2/\text{NDF}: 2053.1/74$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428+/-0.081 χ^2/NDF : 339820.0/16

Left Out: 305.935+/-0.057 χ^2/NDF : 663657.6/19

Right Out: 288.522+/-0.078 χ^2/NDF : 455410.1/18

Left In: 294.649+/-0.056 χ^2/NDF : 685875.3/18

Left: 300.167+/-0.040 χ^2/NDF : 1369649.0/38

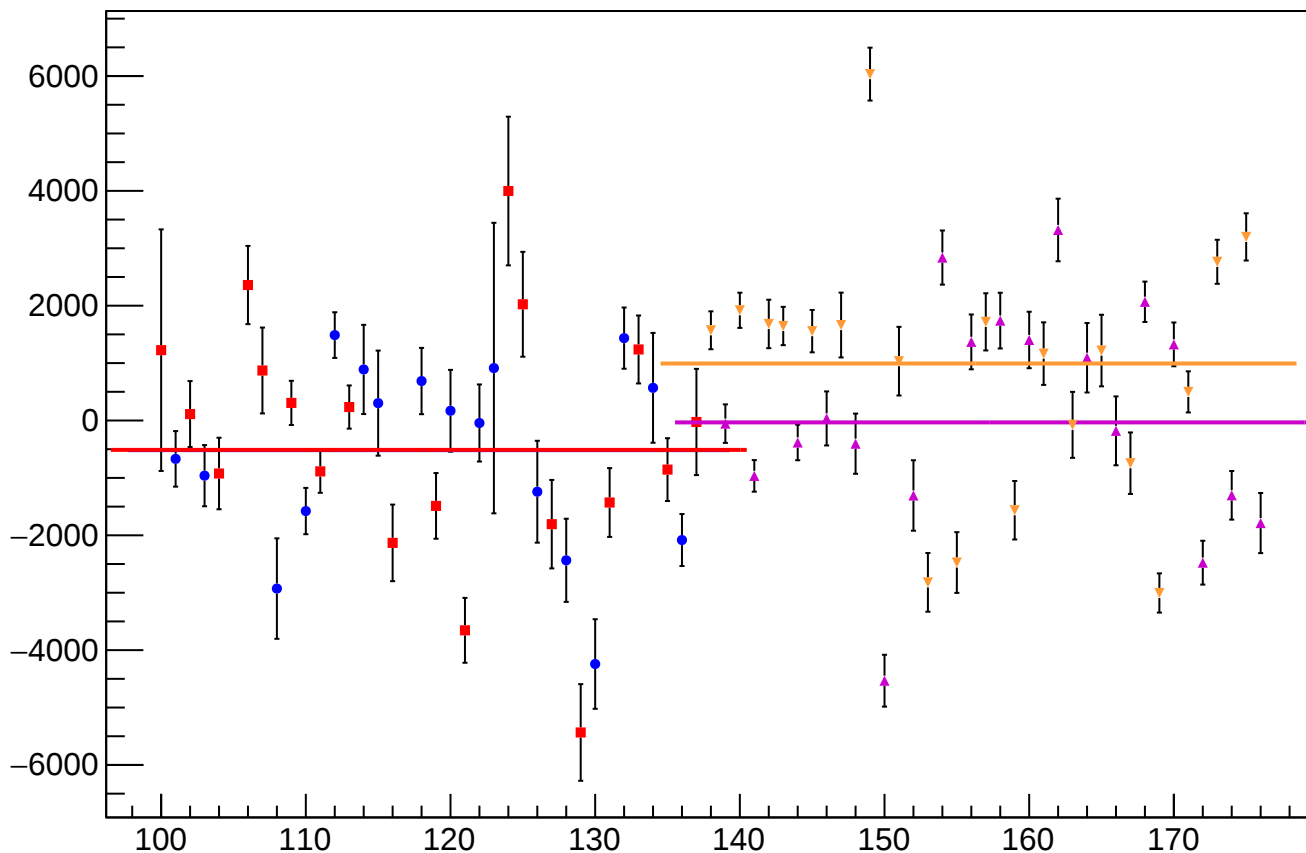
Right: 288.476+/-0.056 χ^2/NDF : 795230.9/35

In: 292.640+/-0.046 χ^2/NDF : 1029731.4/35

Out: 299.930+/-0.046 χ^2/NDF : 1151384.3/38

All: 296.265+/-0.032 χ^2/NDF : 2193718.2/74

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 ± 147.326 $\chi^2/\text{NDF}: 108.0/16$

Left Out: 992.774 ± 95.679 $\chi^2/\text{NDF}: 471.1/19$

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: 488.961 ± 68.254 $\chi^2/\text{NDF}: 862.9/38$

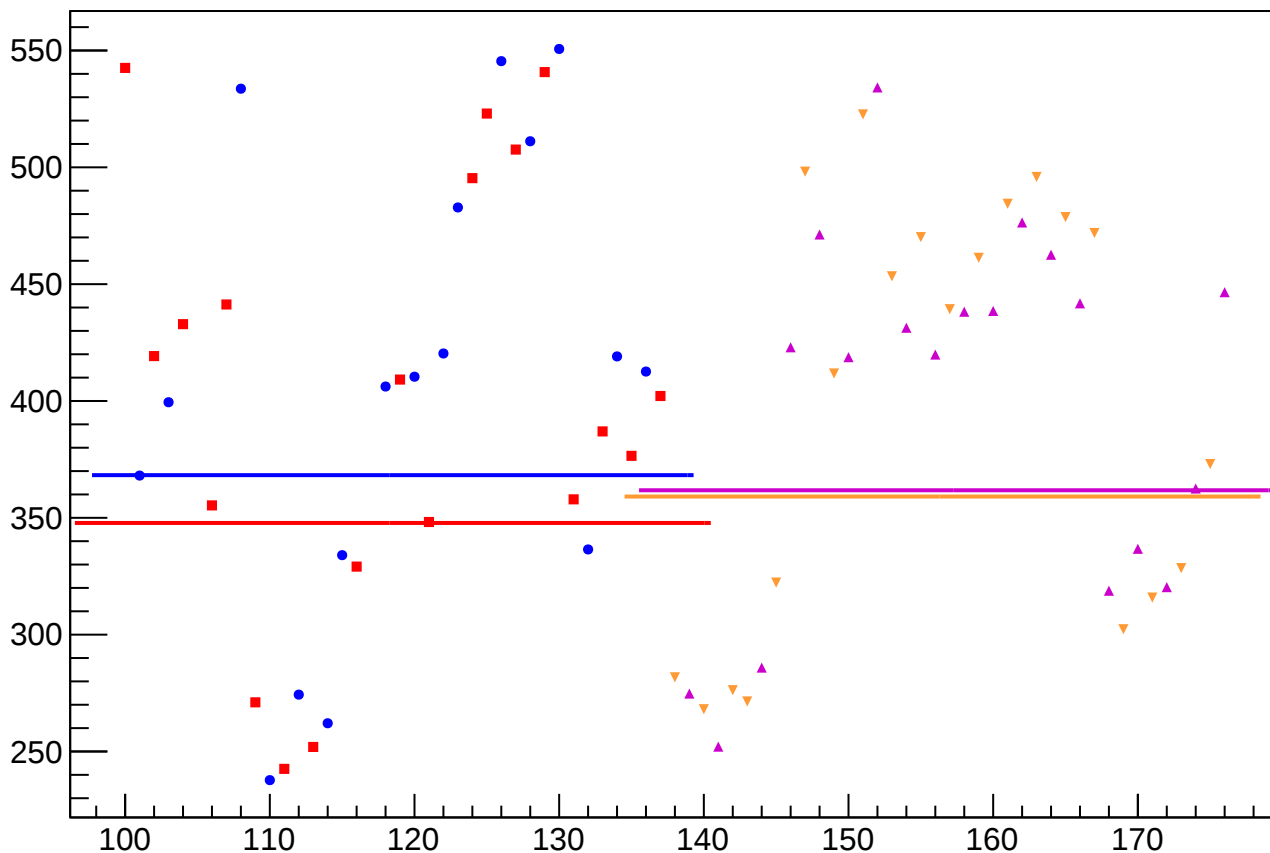
Right: -513.708 ± 99.851 $\chi^2/\text{NDF}: 249.3/35$

In: -179.913 ± 81.246 $\chi^2/\text{NDF}: 450.8/35$

Out: 493.637 ± 78.215 $\chi^2/\text{NDF}: 694.5/38$

All: 169.660 ± 56.347 $\chi^2/\text{NDF}: 1180.9/74$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264 $\pm$ 0.104 χ^2 /NDF: 770116.6/16

Left Out: 359.106 $\pm$ 0.068 χ^2 /NDF: 1587885.0/19

Right Out: 347.802 $\pm$ 0.096 χ^2 /NDF: 821862.5/18

Left In: 361.794 $\pm$ 0.069 χ^2 /NDF: 1348750.6/18

Left: 360.426 $\pm$ 0.048 χ^2 /NDF: 2937411.0/38

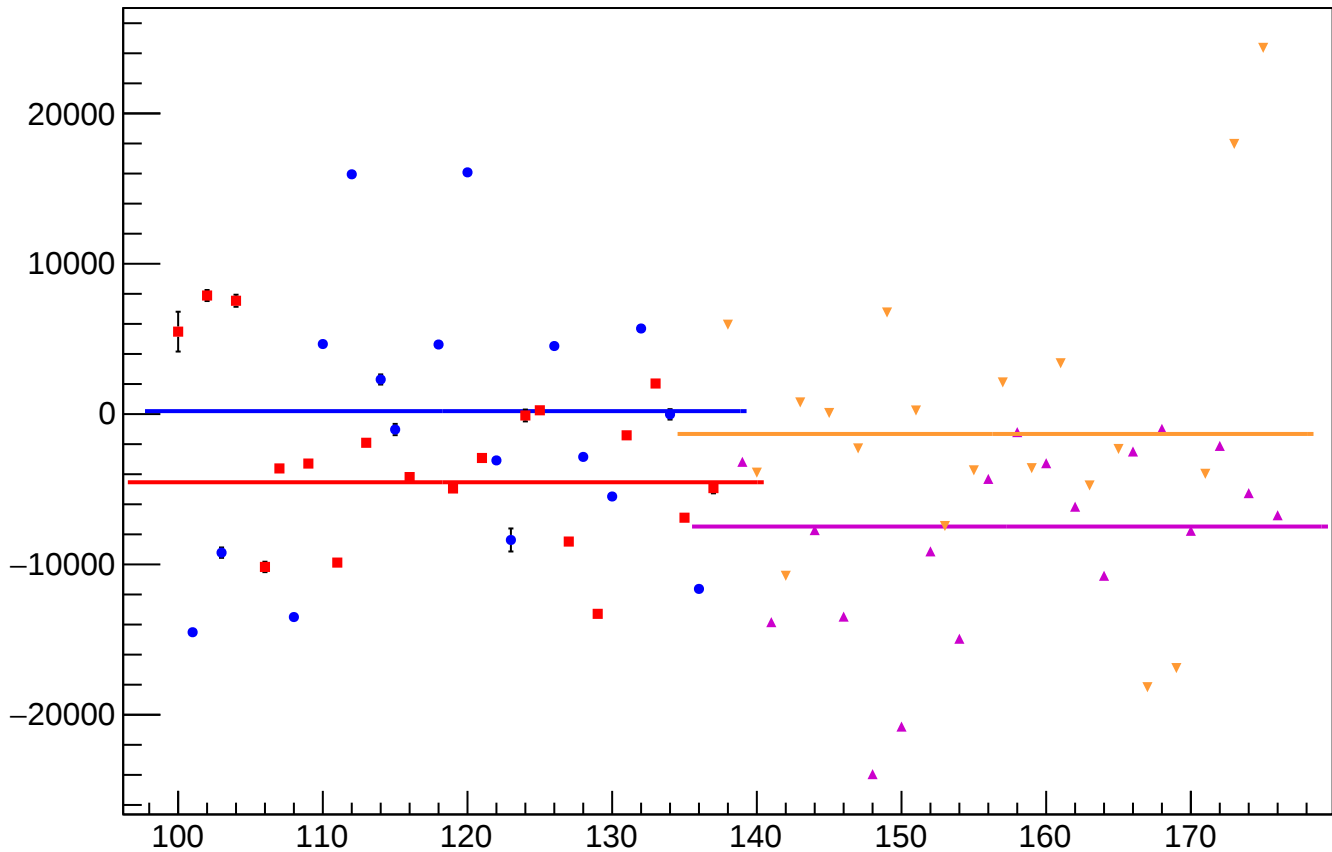
Right: 357.201 $\pm$ 0.071 χ^2 /NDF: 1612837.5/35

In: 363.762 $\pm$ 0.057 χ^2 /NDF: 2121551.3/35

Out: 355.356 $\pm$ 0.055 χ^2 /NDF: 2419008.0/38

All: 359.399 $\pm$ 0.040 χ^2 /NDF: 4551670.3/74

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1321.016 ± 44.909 $\chi^2/\text{NDF}: 45094.8/19$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7479.863 ± 46.370 $\chi^2/\text{NDF}: 17297.4/18$

Left: -4301.906 ± 32.259 $\chi^2/\text{NDF}: 71495.1/38$

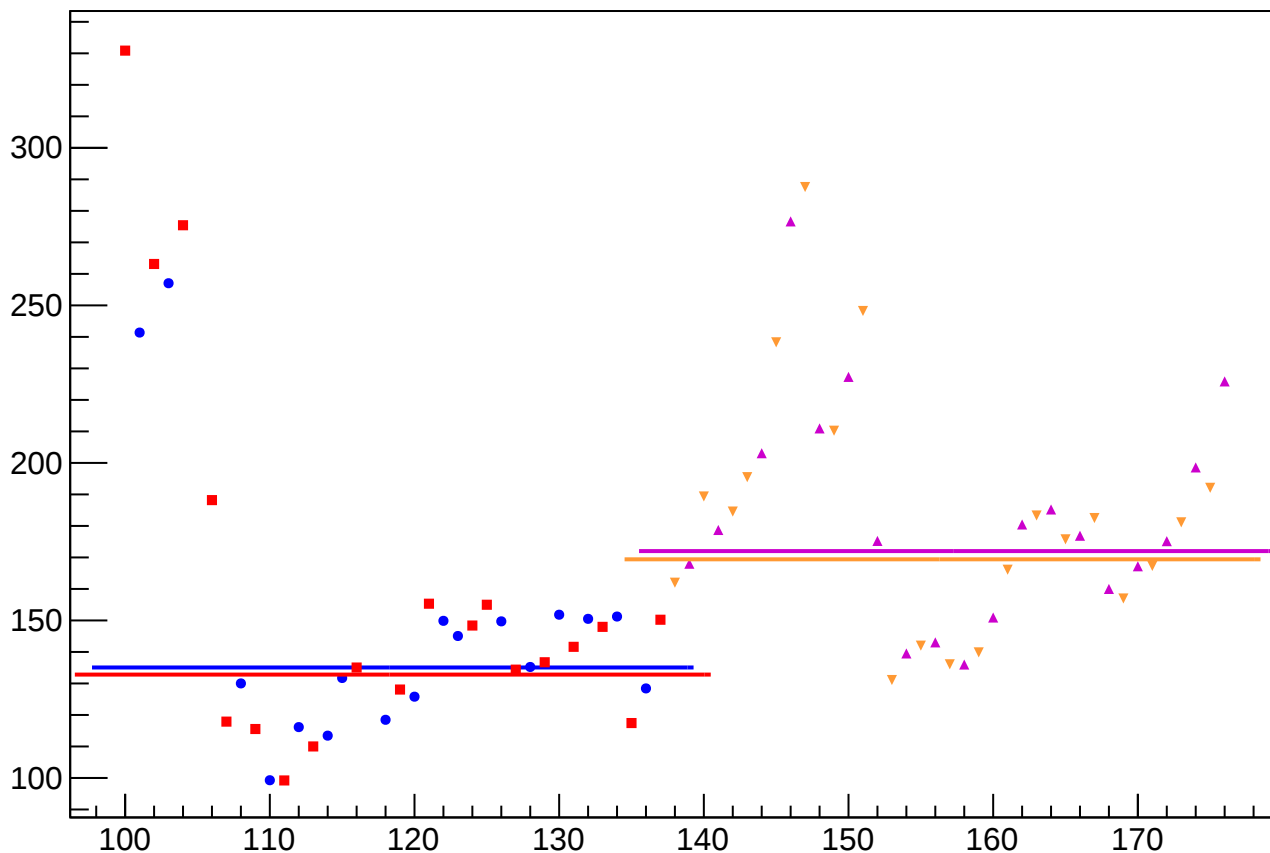
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4276.619 ± 35.397 $\chi^2/\text{NDF}: 59392.6/35$

Out: -2679.863 ± 34.116 $\chi^2/\text{NDF}: 54737.0/38$

All: -3448.819 ± 24.564 $\chi^2/\text{NDF}: 115184.4/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 169.400 $\pm$ 0.032 χ^2 /NDF:1052531.6/19

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: 170.666 $\pm$ 0.023 χ^2 /NDF: 1910307.0/38

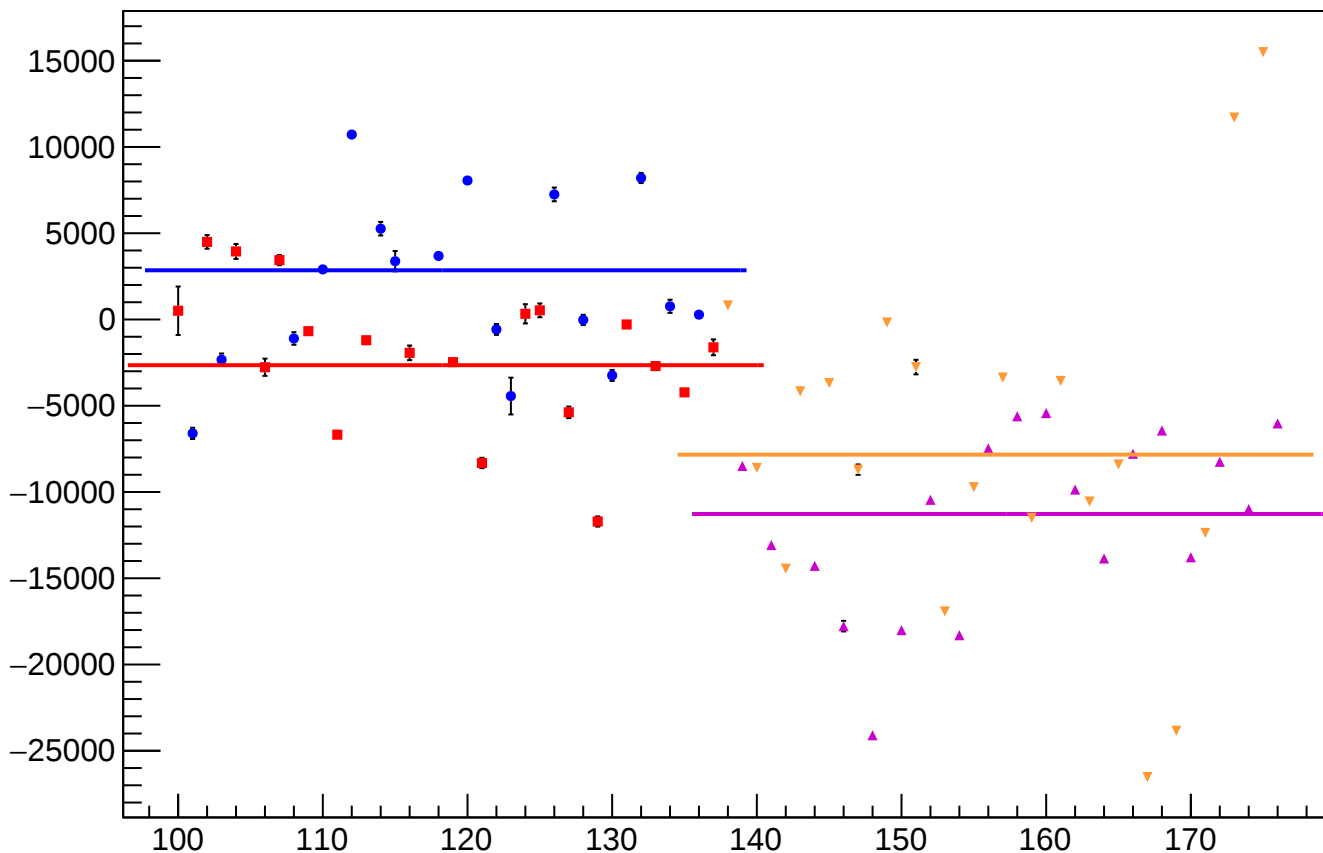
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 156.600 $\pm$ 0.025 χ^2 /NDF:2042904.3/35

Out: 153.929 $\pm$ 0.024 χ^2 /NDF:2444997.8/38

All: 155.215 $\pm$ 0.017 χ^2 /NDF: 4493807.1/74

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7833.022+/-50.761 χ^2/NDF :38131.8/19

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: -9676.970+/-34.588 χ^2/NDF : 51890.1/38

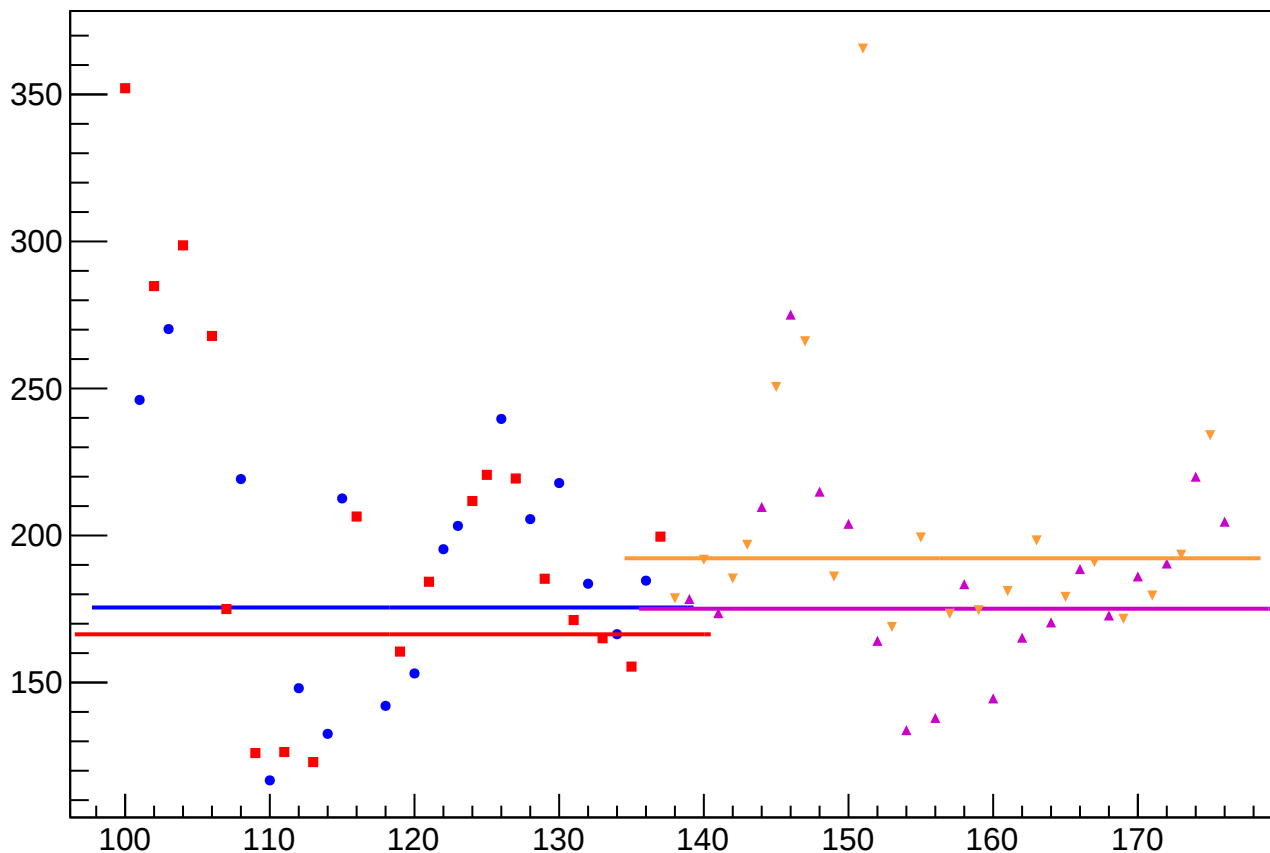
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6917.373+/-39.297 χ^2/NDF :43039.8/35

Out: -5896.427+/-40.175 χ^2/NDF :45203.7/38

All: -6418.186+/-28.093 χ^2/NDF : 88573.5/74

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.250+/-0.036 χ^2/NDF : 711071.0/19

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: 183.060+/-0.024 χ^2/NDF : 1640971.9/38

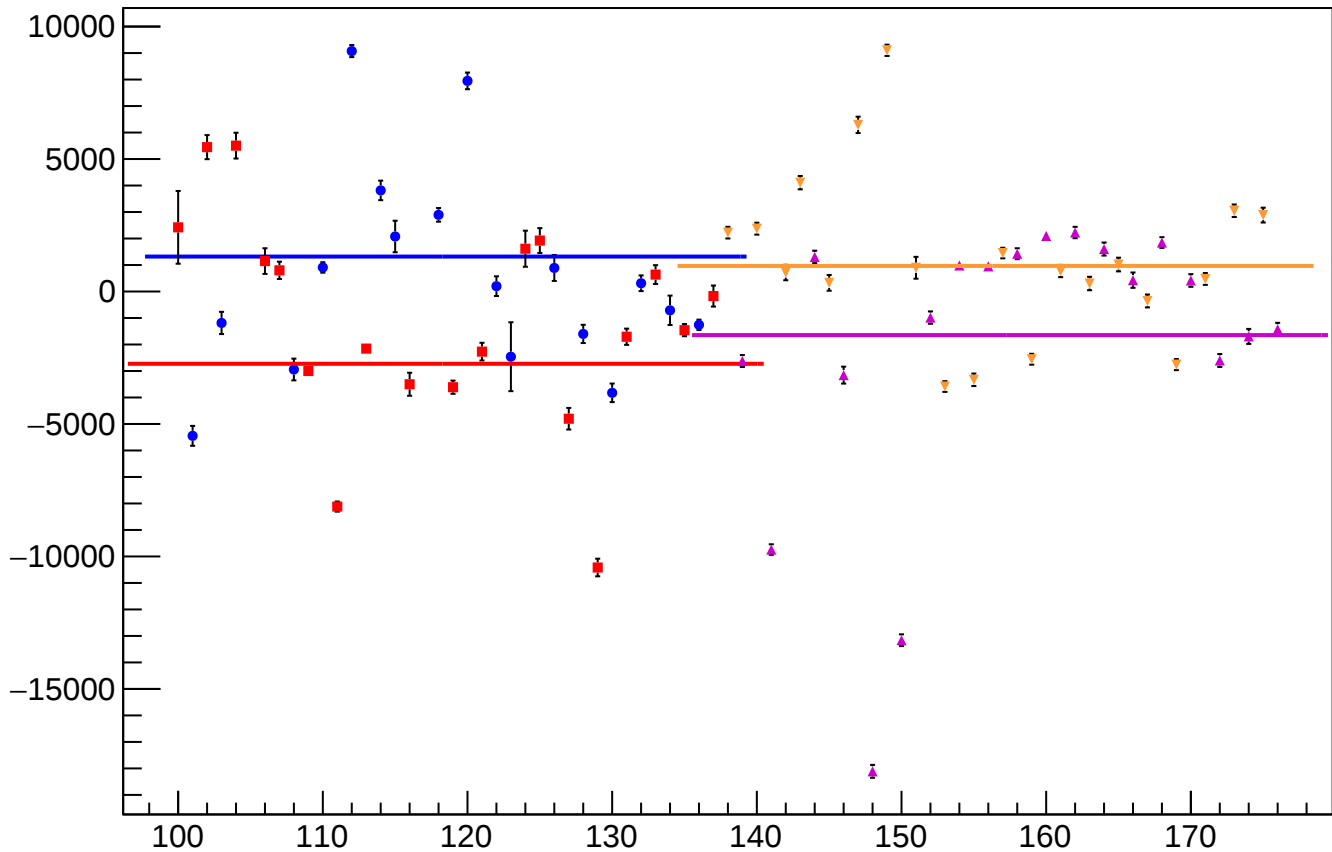
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 175.225+/-0.028 χ^2/NDF : 1497233.2/35

Out: 182.590+/-0.028 χ^2/NDF : 1834472.4/38

All: 178.826+/-0.020 χ^2/NDF : 3366057.3/74

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 965.786+/-53.619 χ^2/NDF :3603.5/19

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1644.707+/-49.675 χ^2/NDF :11303.6/18

Left: -438.982+/-36.440 χ^2/NDF : 16182.6/38

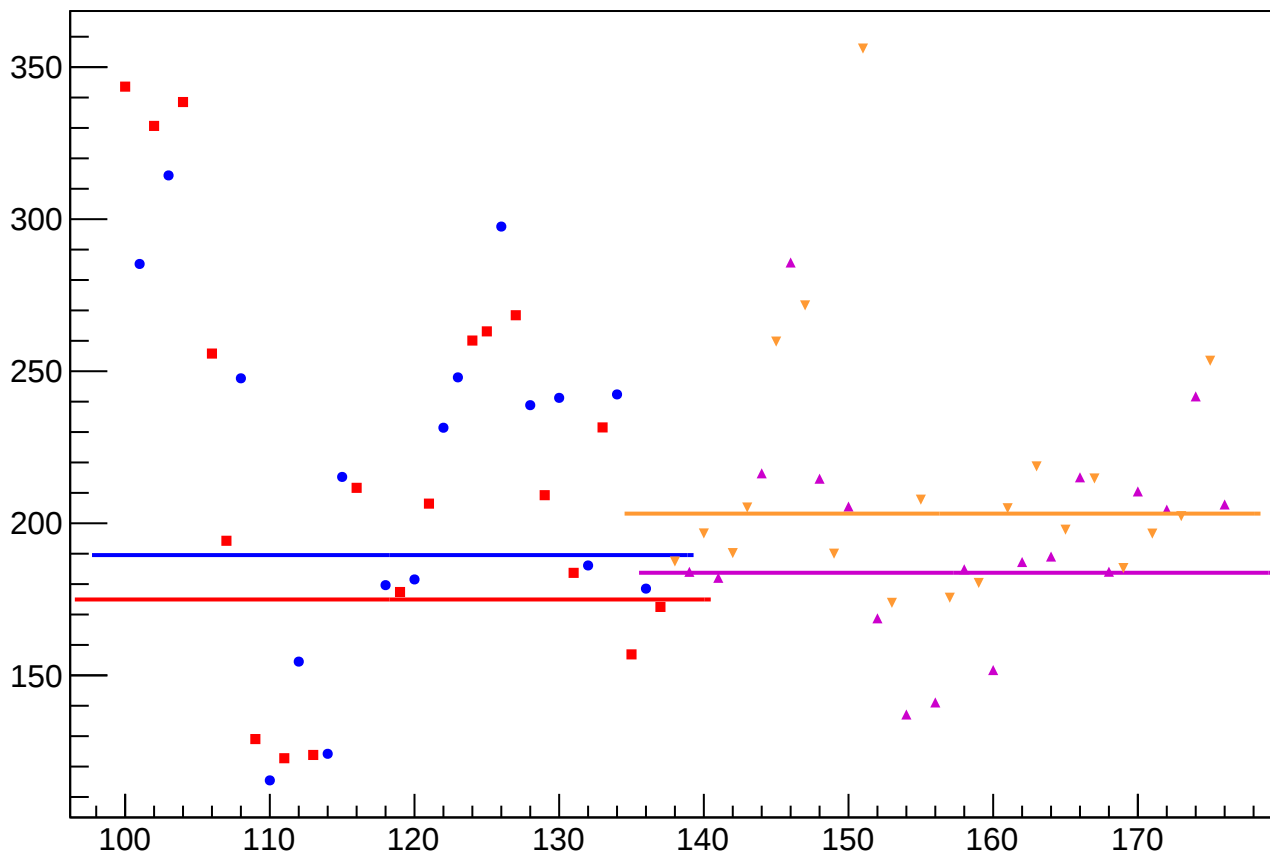
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -776.050+/-41.765 χ^2/NDF :15013.9/35

Out: -399.277+/-42.573 χ^2/NDF :7853.1/38

All: -591.269+/-29.814 χ^2/NDF : 22907.0/74

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 203.180+/-0.038 χ^2/NDF : 668977.3/19

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 183.730+/-0.035 χ^2/NDF : 863920.6/18

Left: 192.713+/-0.026 χ^2/NDF : 1674523.8/38

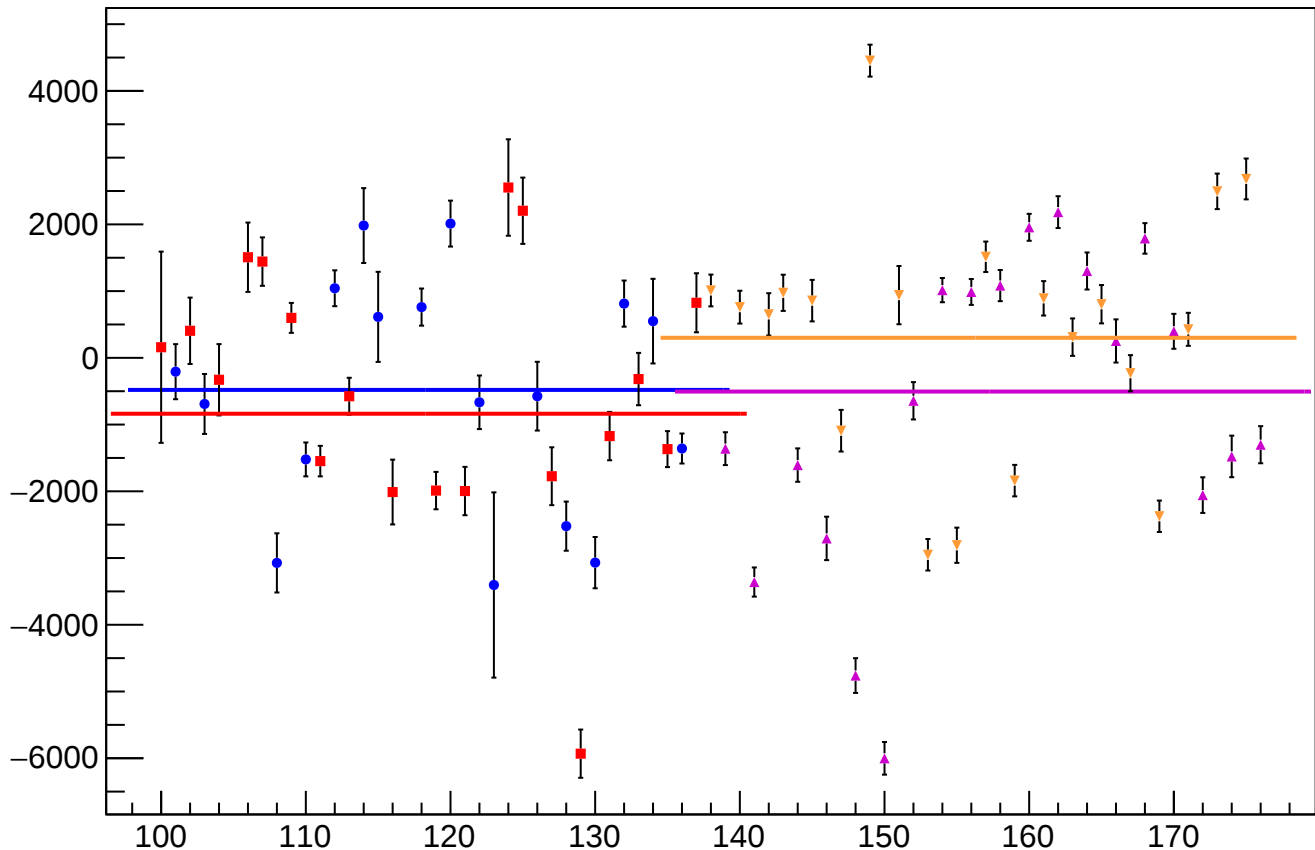
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 185.434+/-0.030 χ^2/NDF : 1852697.3/35

Out: 192.745+/-0.030 χ^2/NDF : 2171071.1/38

All: 189.019+/-0.021 χ^2/NDF : 4053821.0/74

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 $\pm$ 88.640 χ^2/NDF : 290.7/16

Left Out: 300.595 $\pm$ 59.415 χ^2/NDF :1055.6/19

Right Out: -837.442 $\pm$ 82.243 χ^2/NDF : 435.3/18

Left In: -505.379 $\pm$ 56.082 χ^2/NDF :1681.9/18

Left: -125.634 $\pm$ 40.783 χ^2/NDF : 2834.8/38

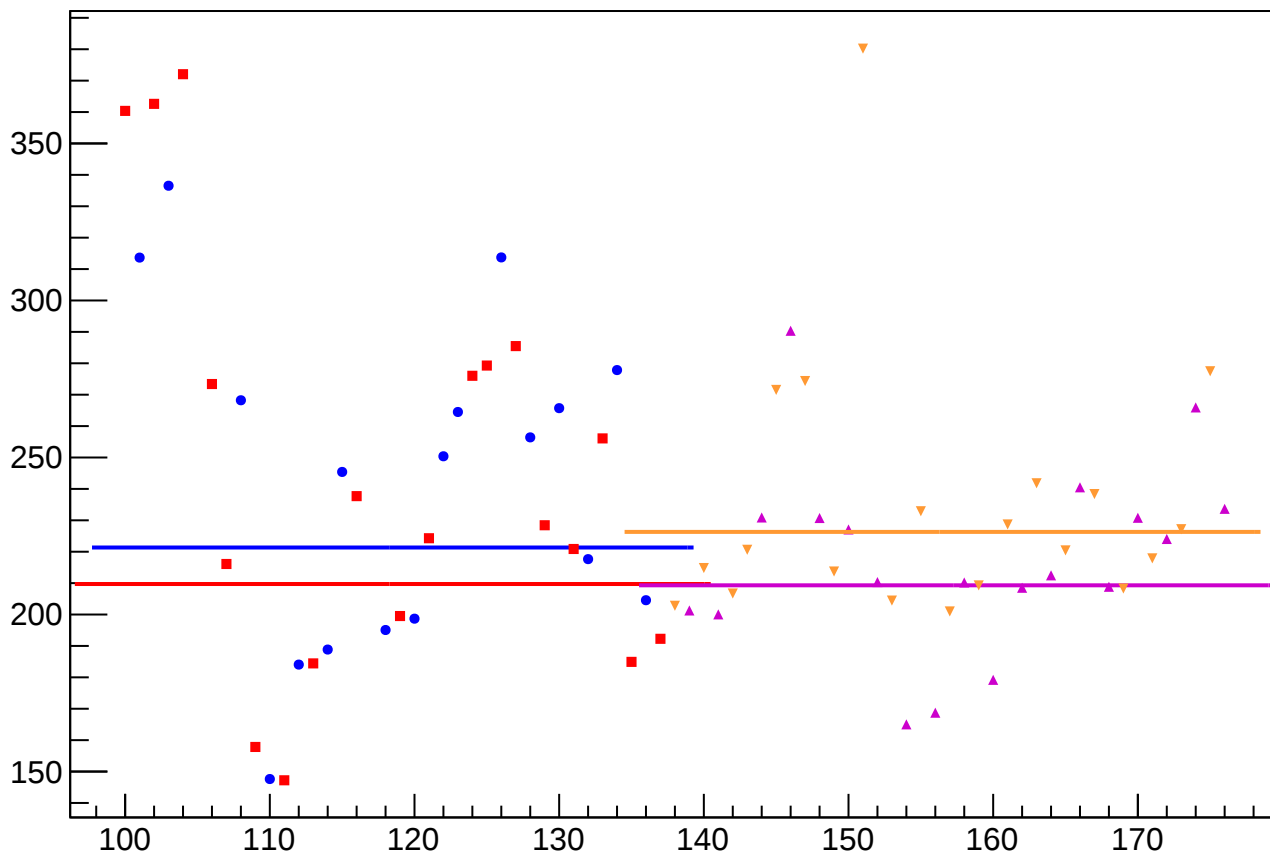
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -498.289 $\pm$ 47.393 χ^2/NDF :1972.7/35

Out: -89.672 $\pm$ 48.162 χ^2/NDF :1616.7/38

All: -297.269 $\pm$ 33.780 χ^2/NDF : 3625.9/74

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 226.312 $\pm$ 0.042 χ^2 /NDF: 510947.7/19

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 209.303 $\pm$ 0.040 χ^2 /NDF: 539871.1/18

Left: 217.317 $\pm$ 0.029 χ^2 /NDF: 1137497.0/38

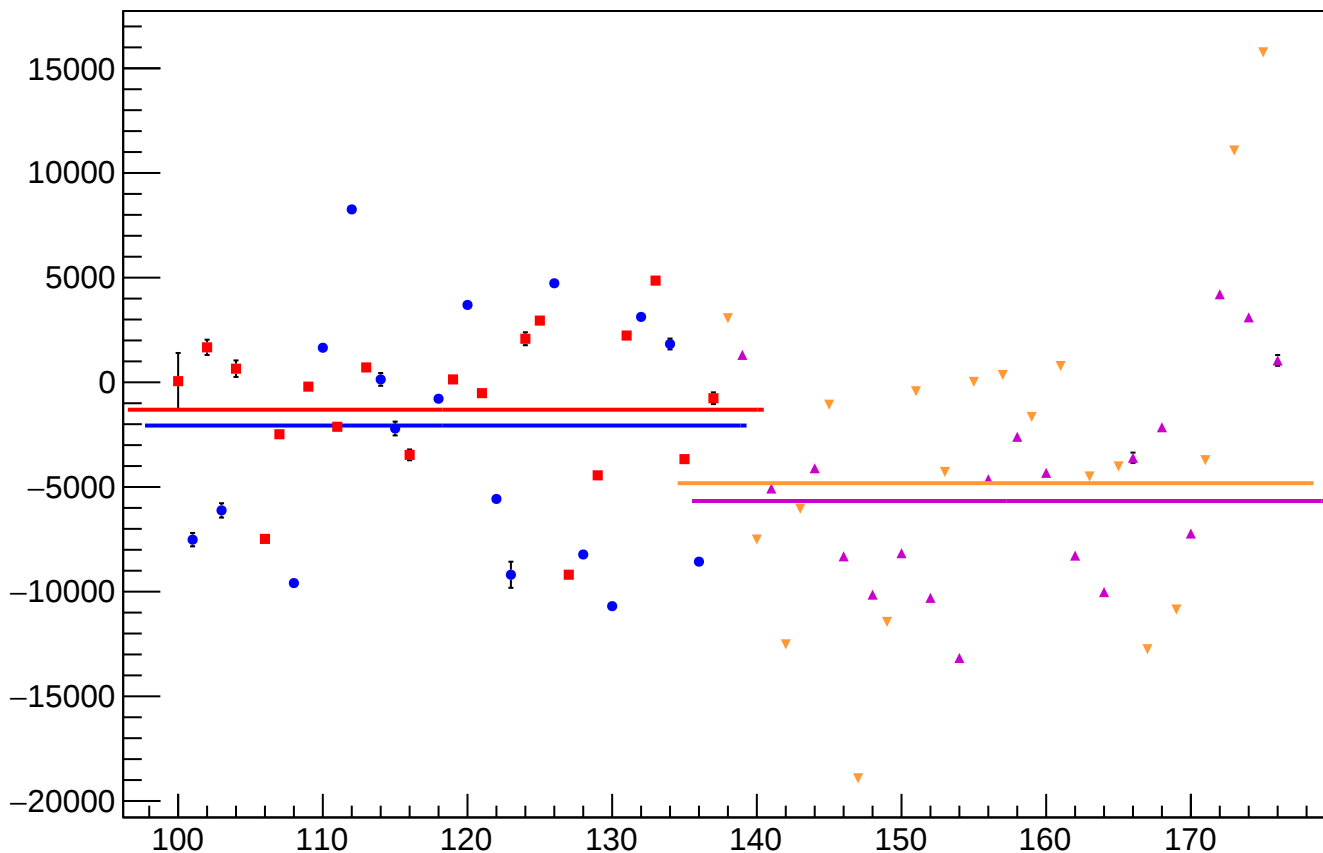
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 212.744 $\pm$ 0.034 χ^2 /NDF: 1211907.4/35

Out: 220.621 $\pm$ 0.034 χ^2 /NDF: 1448371.5/38

All: 216.619 $\pm$ 0.024 χ^2 /NDF: 2687454.1/74

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -4818.637 $\pm$ 35.131 χ^2/NDF : 44911.8/19

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -5669.772 $\pm$ 36.091 χ^2/NDF : 14090.4/18

Left: -5232.740 $\pm$ 25.174 χ^2/NDF : 59287.8/38

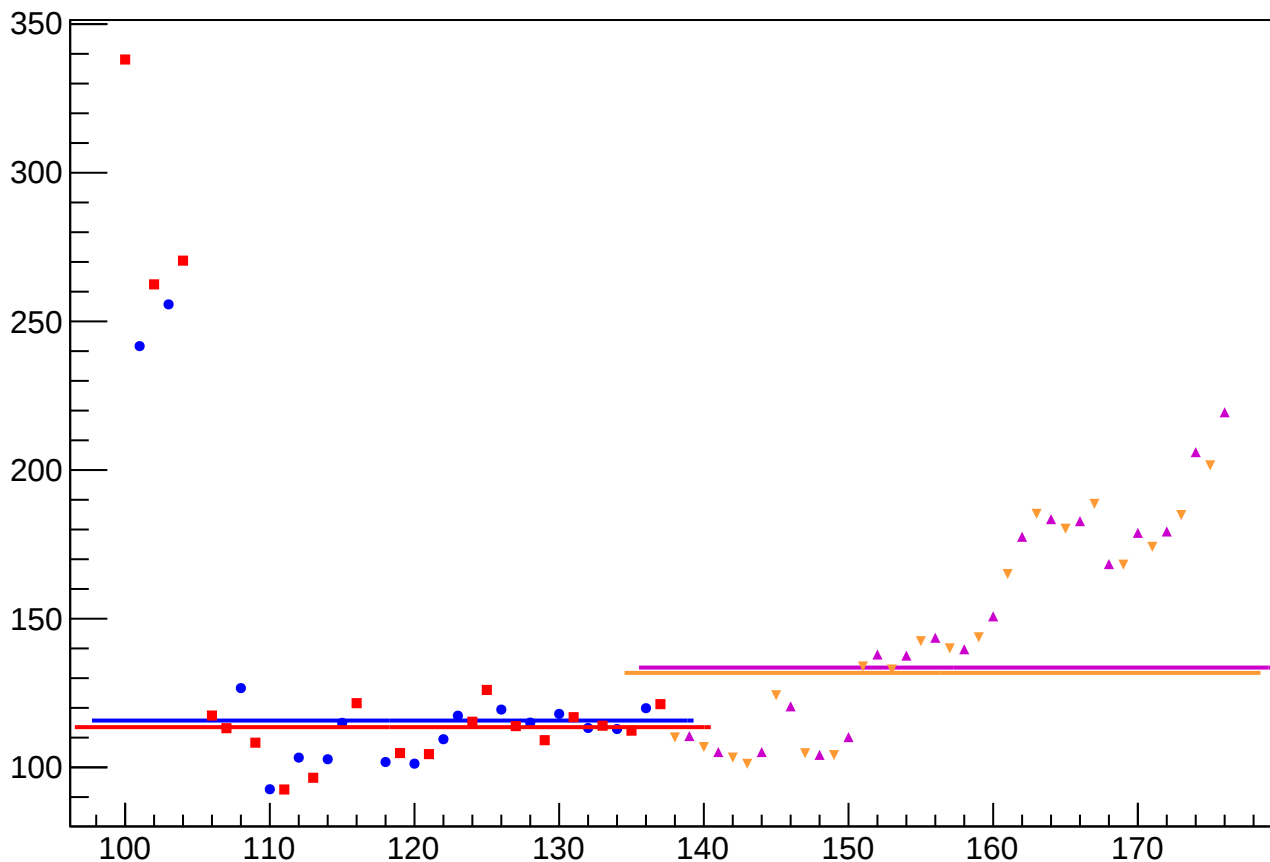
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4344.175 $\pm$ 28.697 χ^2/NDF : 34292.1/35

Out: -3489.452 $\pm$ 27.692 χ^2/NDF : 54586.4/38

All: -3901.581 $\pm$ 19.927 χ^2/NDF : 89337.9/74

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 $\pm$ 0.033 χ^2 /NDF: 744017.7/16

Left Out: 131.770 $\pm$ 0.025 χ^2 /NDF: 1461629.3/19

Right Out: 113.519 $\pm$ 0.032 χ^2 /NDF: 796640.6/18

Left In: 133.564 $\pm$ 0.026 χ^2 /NDF: 1479483.6/18

Left: 132.643 $\pm$ 0.018 χ^2 /NDF: 2943648.9/38

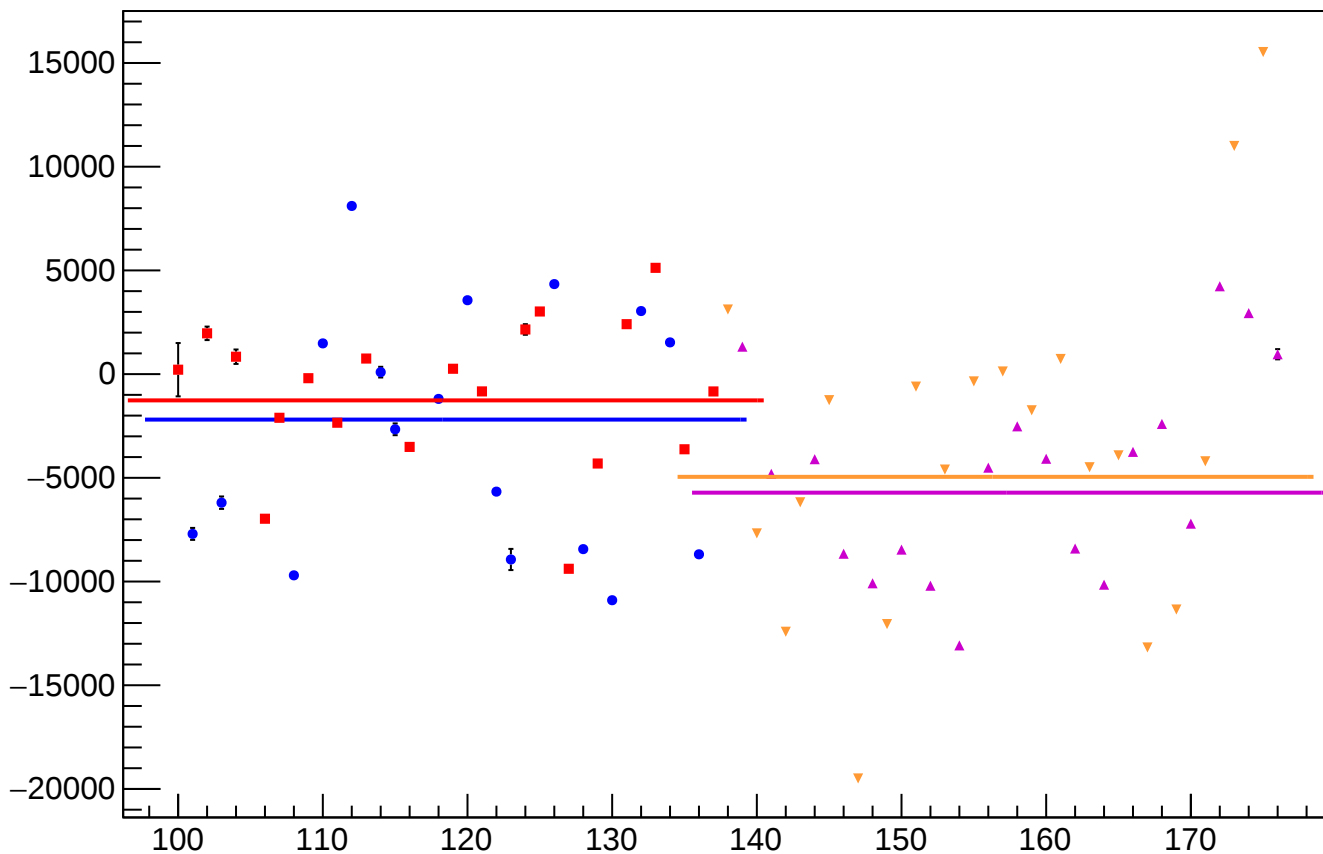
Right: 114.574 $\pm$ 0.023 χ^2 /NDF: 1542972.7/35

In: 127.009 $\pm$ 0.020 χ^2 /NDF: 2402874.2/35

Out: 124.859 $\pm$ 0.020 χ^2 /NDF: 2462670.8/38

All: 125.896 $\pm$ 0.014 χ^2 /NDF: 4871359.3/74

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 $\pm$ 39.944 χ^2/NDF : 22813.5/16

Left Out: -4952.366 $\pm$ 31.851 χ^2/NDF : 53371.4/19

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: -5319.333 $\pm$ 22.951 χ^2/NDF : 70537.9/38

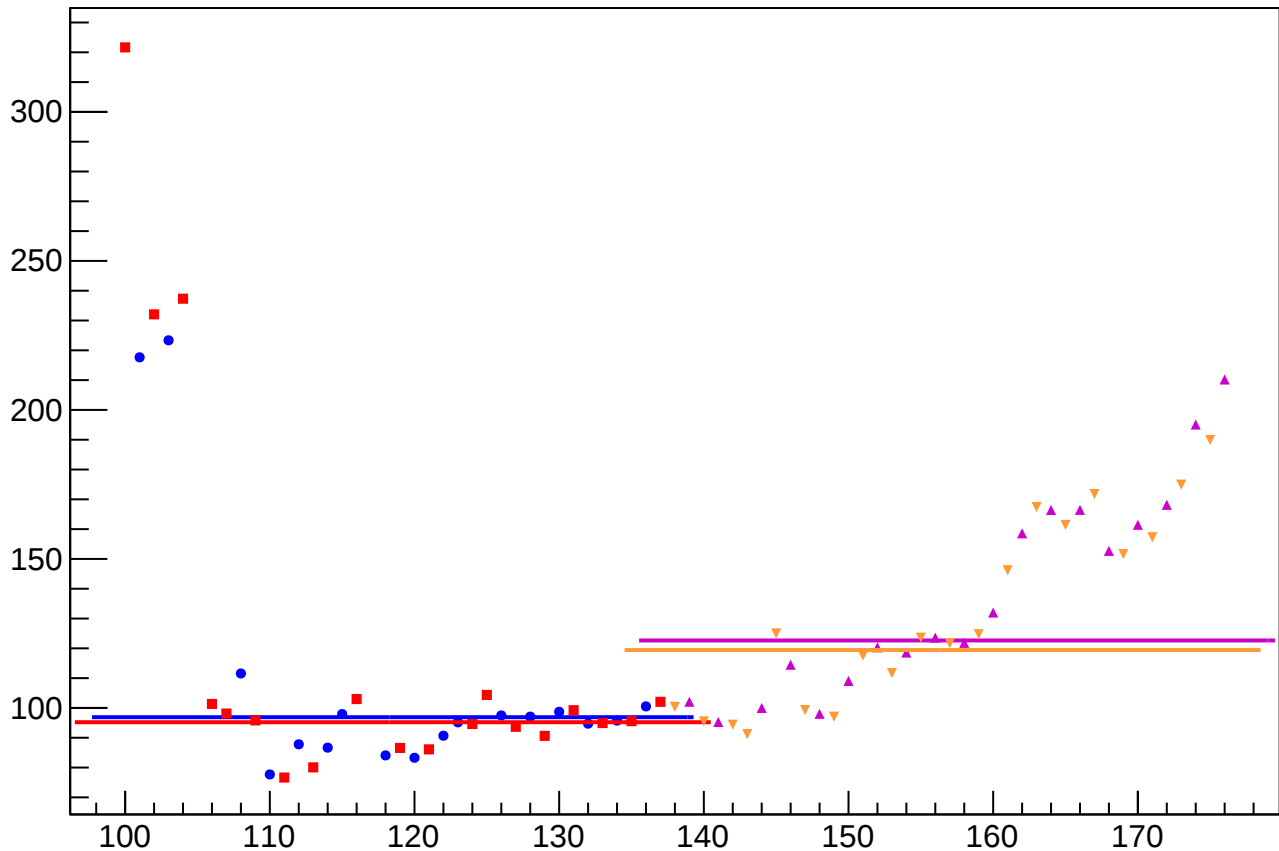
Right: -1706.759 $\pm$ 27.550 χ^2/NDF : 31645.9/35

In: -4281.254 $\pm$ 25.486 χ^2/NDF : 44316.9/35

Out: -3433.559 $\pm$ 24.423 χ^2/NDF : 67440.6/38

All: -3839.350 $\pm$ 17.634 χ^2/NDF : 112334.2/7

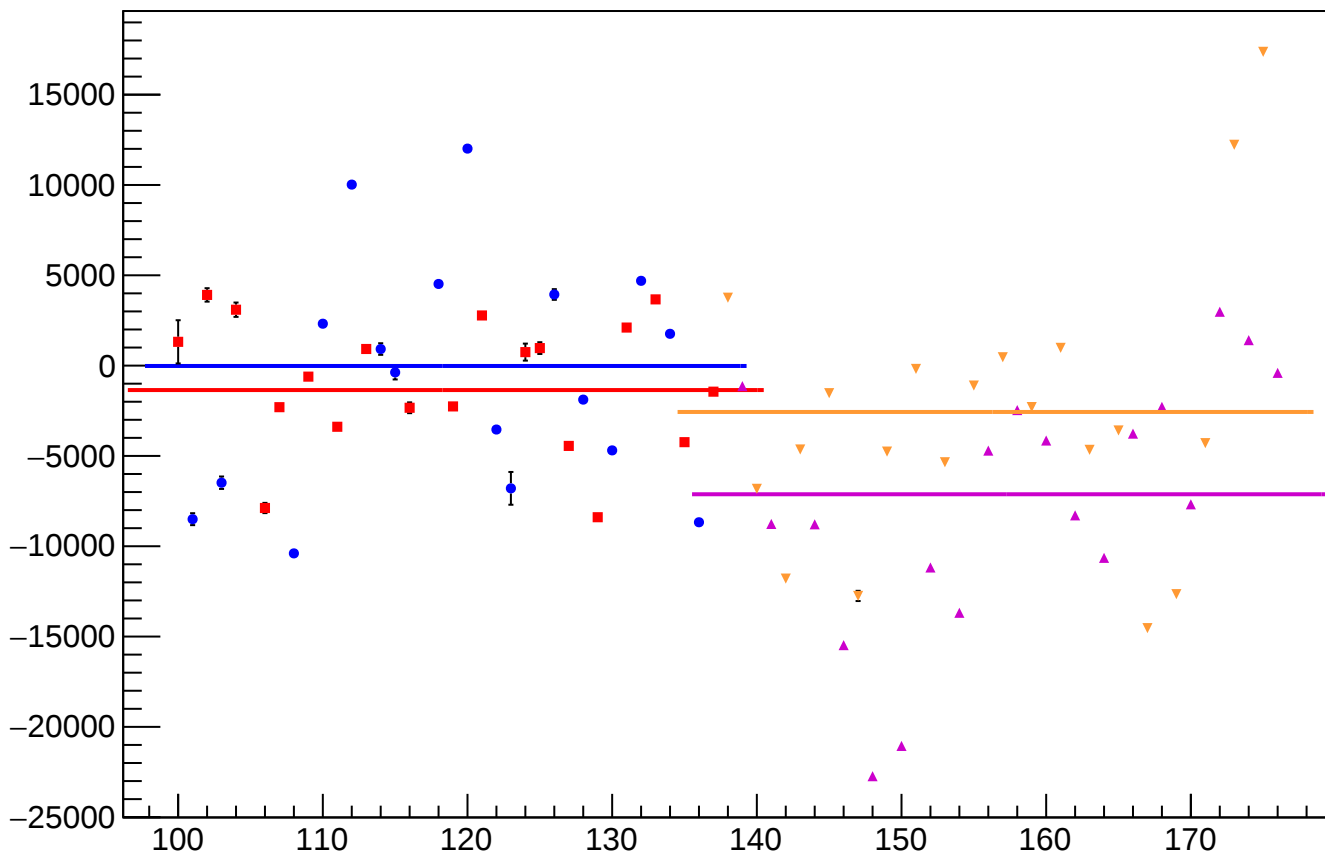
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16
 Left Out: 119.424+/-0.023 χ^2/NDF : 1421496.5/19
 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: 120.973+/-0.016 χ^2/NDF : 2794050.4/38
 Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35
 In: 112.162+/-0.018 χ^2/NDF : 2672797.0/35
 Out: 109.448+/-0.017 χ^2/NDF : 2757424.5/38
 All: 110.747+/-0.012 χ^2/NDF : 5442039.9/74

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 χ^2/NDF : 16361.0/16

Left Out: -2565.934 ± 42.986 χ^2/NDF : 24325.4/19

Right Out: -1353.461 ± 52.367 χ^2/NDF : 3837.2/18

Left In: -7122.088 ± 45.060 χ^2/NDF : 17720.8/18

Left: -4736.743 ± 31.103 χ^2/NDF : 47398.9/38

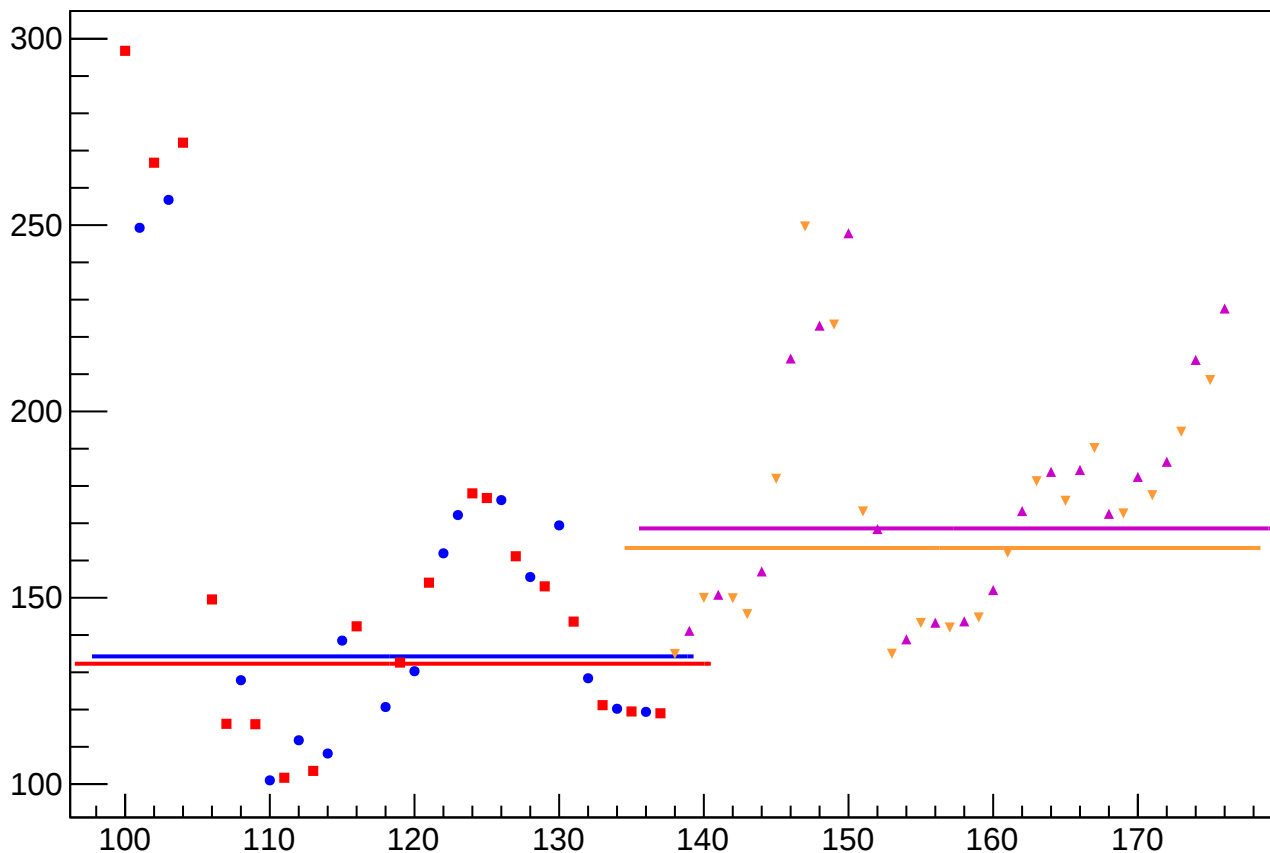
Right: -715.084 ± 37.808 χ^2/NDF : 20508.6/35

In: -4247.454 ± 34.765 χ^2/NDF : 44137.0/35

Out: -2077.839 ± 33.225 χ^2/NDF : 28482.9/38

All: -3113.560 ± 24.020 χ^2/NDF : 74655.5/74

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2/NDF : 788647.0/16

Left Out: 163.364 $\pm$ 0.030 χ^2/NDF : 768254.3/19

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: 165.863 $\pm$ 0.022 χ^2/NDF : 1600236.6/38

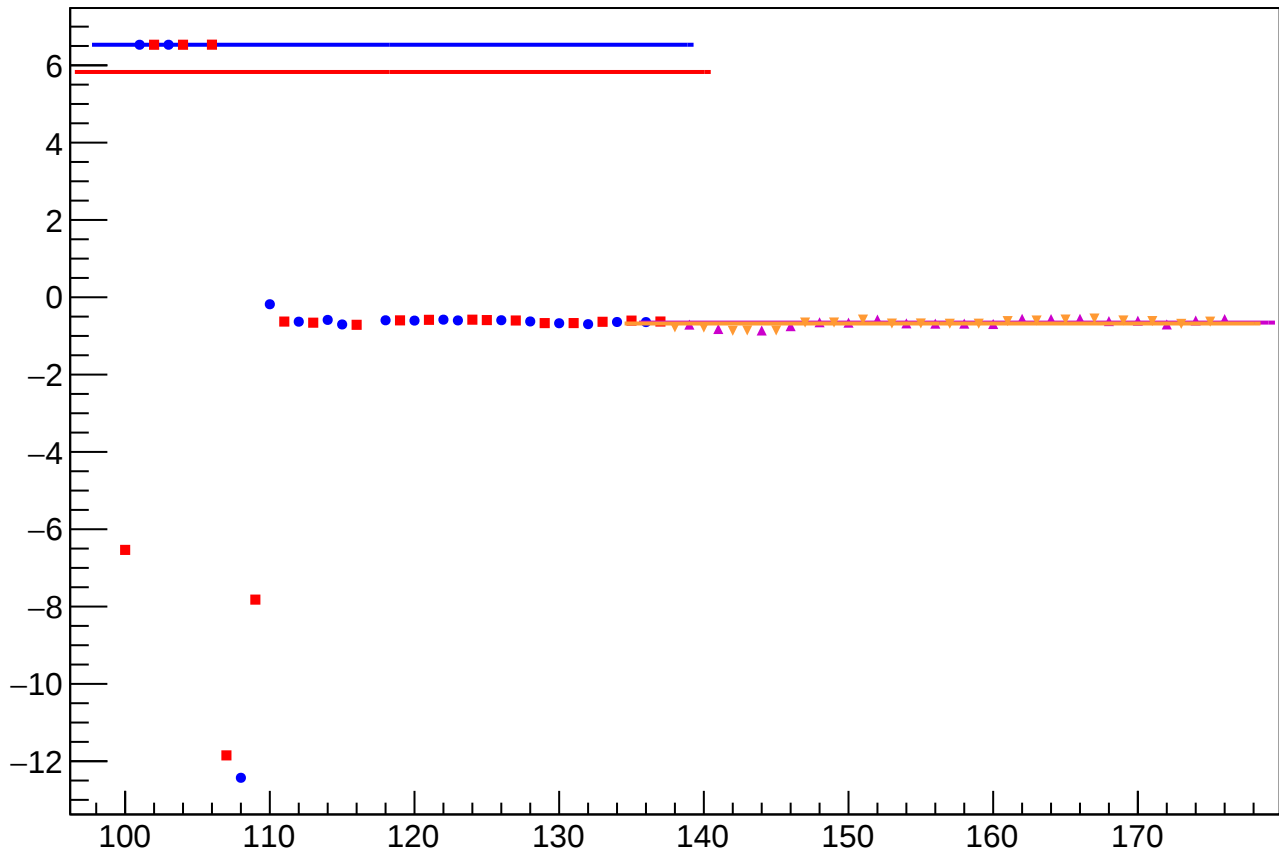
Right: 133.243 $\pm$ 0.027 χ^2/NDF : 1659888.5/35

In: 154.708 $\pm$ 0.025 χ^2/NDF : 2076625.5/35

Out: 150.860 $\pm$ 0.023 χ^2/NDF : 2058558.5/38

All: 152.697 $\pm$ 0.017 χ^2/NDF : 4147994.4/74

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.678+/-0.000 χ^2/NDF : 128624817.3/19

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.655+/-0.000 χ^2/NDF : 111270608.7/18

Left: -0.666+/-0.000 χ^2/NDF : 243484966.8/38

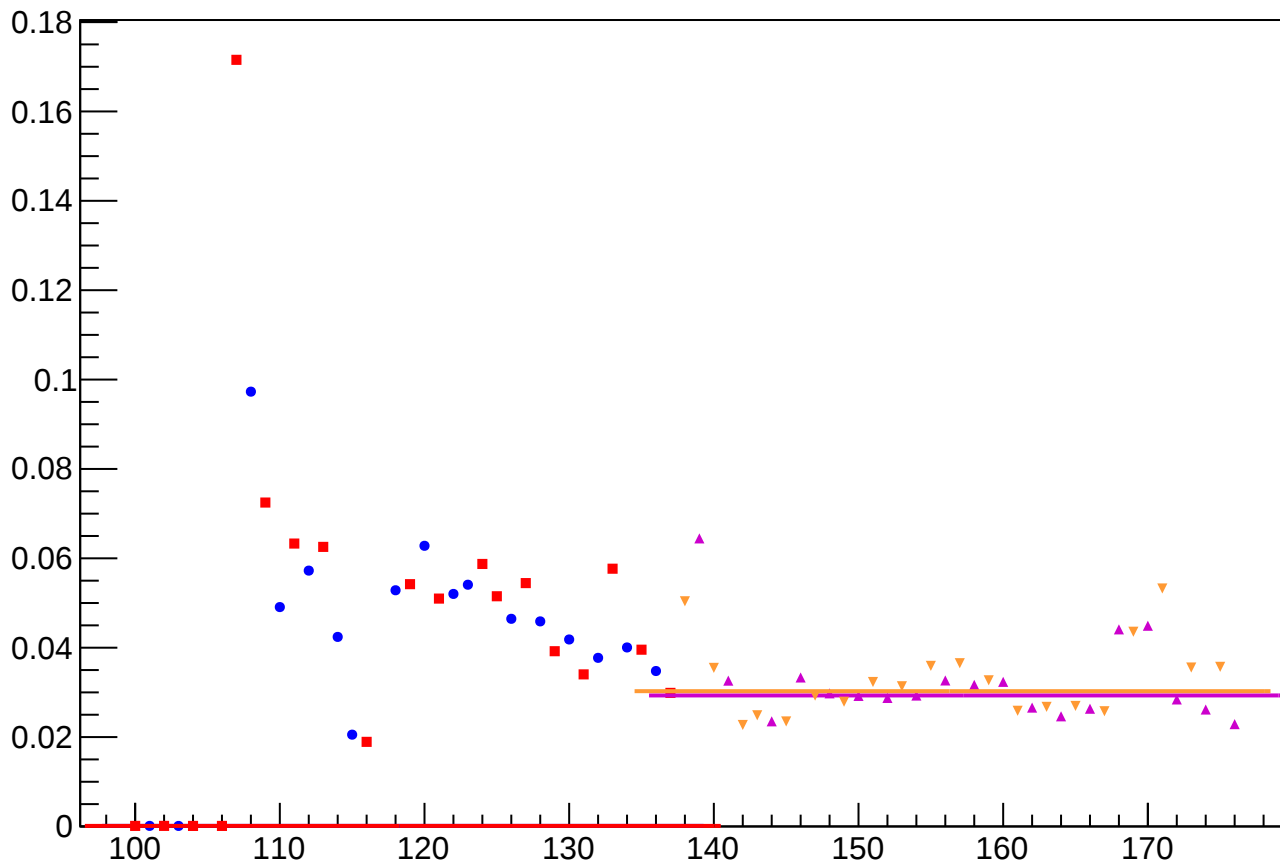
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/38

In: 6.530+/-0.000 χ^2/NDF : 814839909633.1/35

Out: 5.827+/-0.000 χ^2/NDF : 756489177099581.9/35

All: 6.154+/-0.000 χ^2/NDF : 77729288714372

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 :1063457.2/19

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 : 2090827.8/38

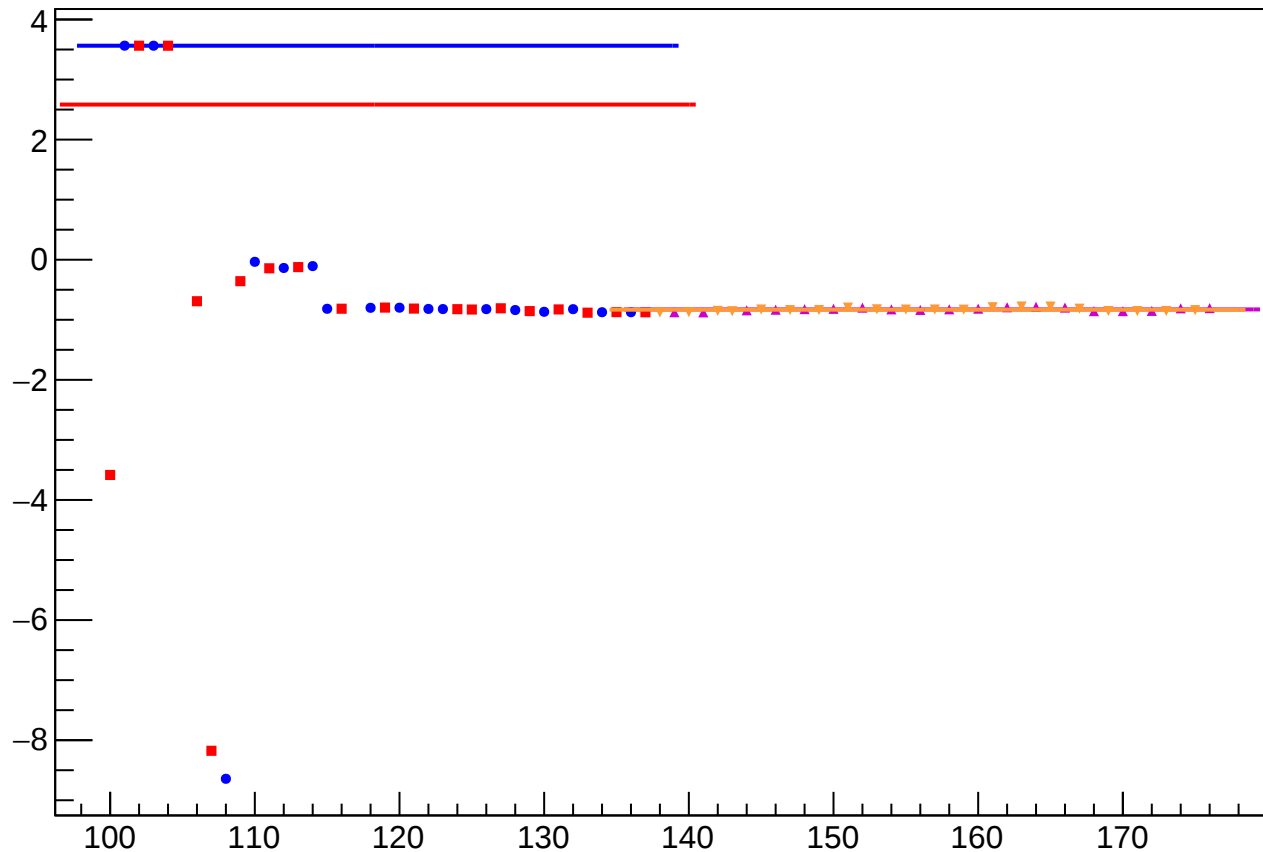
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF :32709531.1/35

Out: 0.000+/-0.000 χ^2/NDF :33646250.2/38

All: 0.000+/-0.000 χ^2/NDF : 66356274.0/74

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.831+/-0.000 χ^2/NDF : 144048490.9/19

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: -0.829+/-0.000 χ^2/NDF : 275990814.4/38

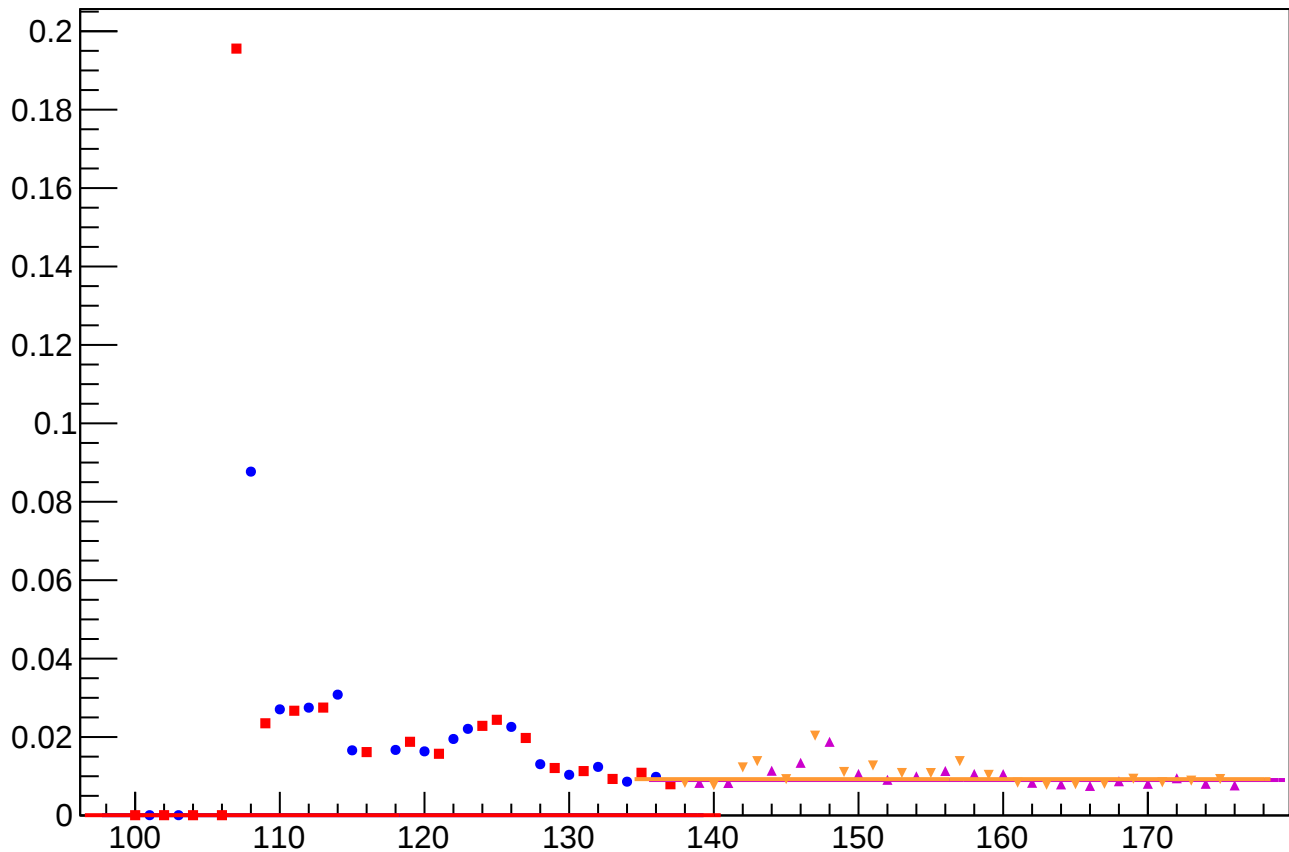
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 3339886833799.9/35

Out: 2.582+/-0.000 χ^2/NDF : 1255170735507418.8

All: 3.038+/-0.000 χ^2/NDF : 13866179934809

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 :1079038.7/19

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 : 1954769.7/38

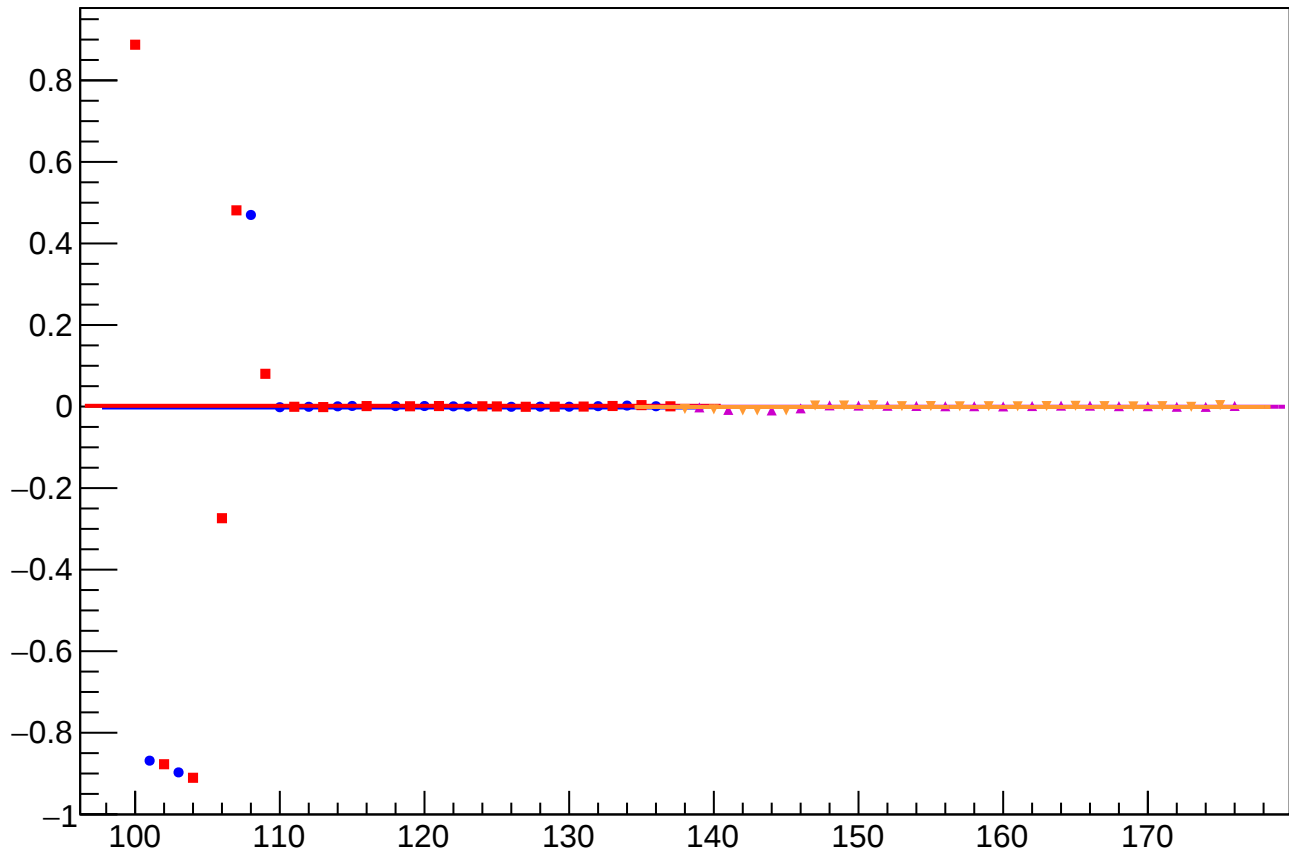
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :34496763.9/35

Out: 0.000+/-0.000 χ^2/NDF :35095957.1/38

All: 0.000+/-0.000 χ^2/NDF : 69593533.2/74

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 : 101734846.1/19

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 : 171458904.9/38

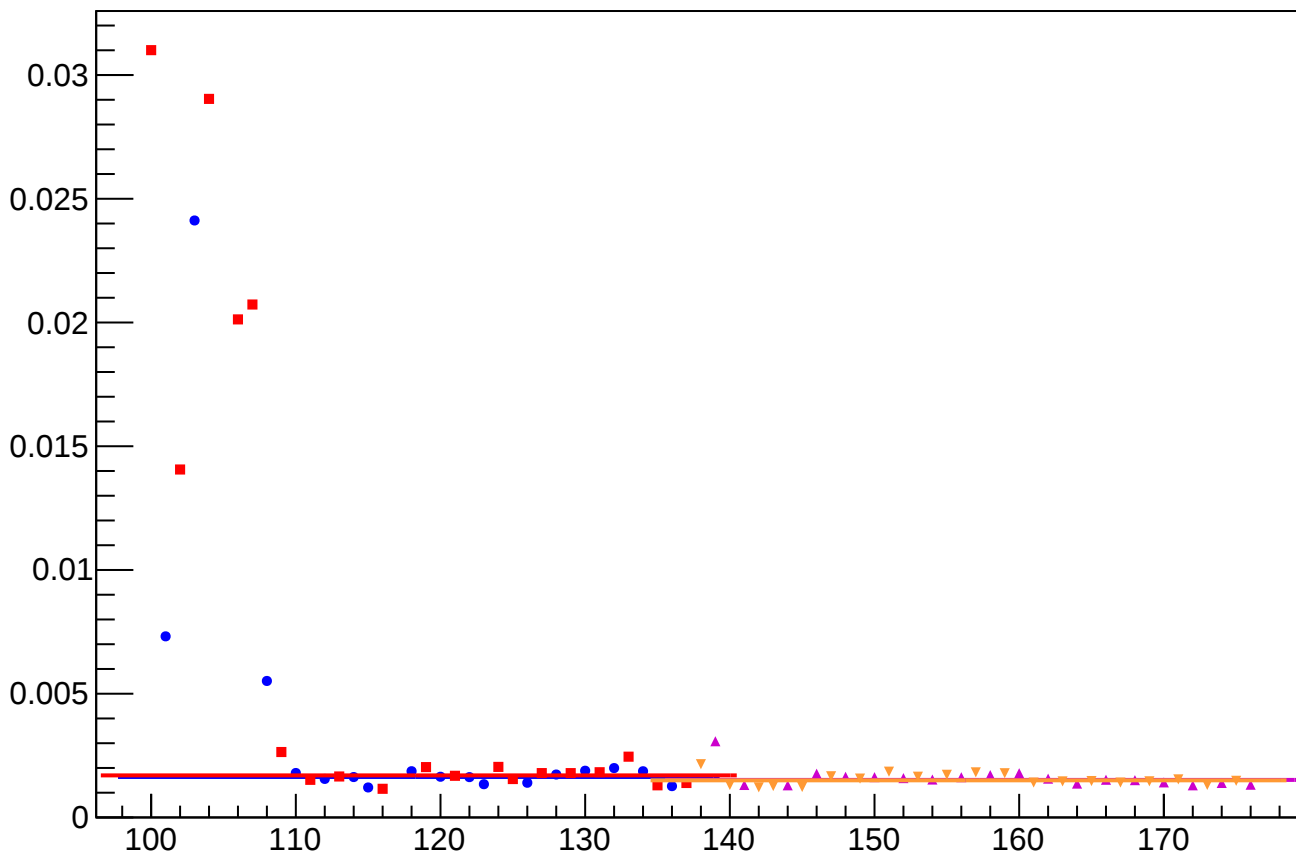
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9868479003.6/35

Out: -0.000+/-0.000 χ^2/NDF : 3153146579.7/38

All: -0.001+/-0.000 χ^2/NDF : 13022509179.3/81

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1919127.9/16

Left Out: 0.002+/-0.000 χ^2/NDF : 456209.5/19

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 : 1052607.7/38

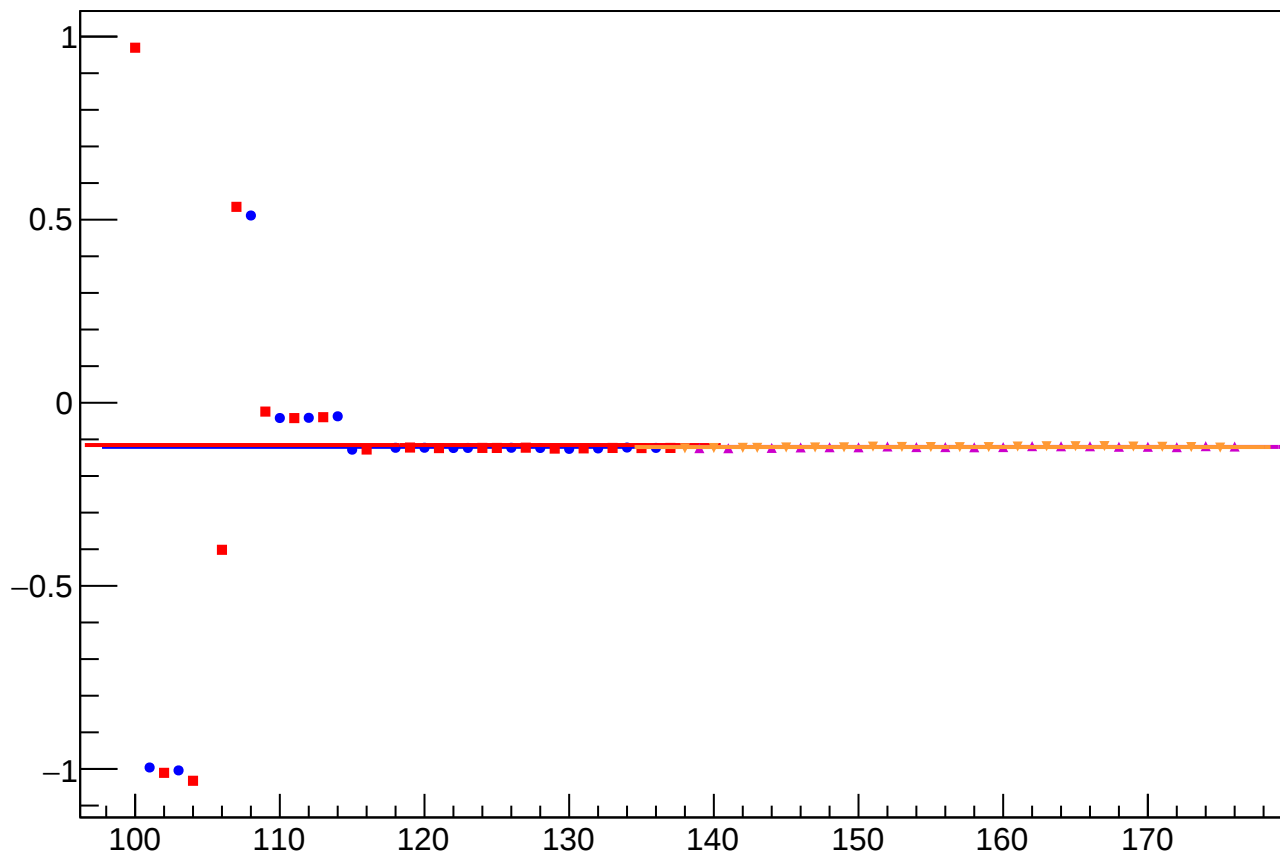
Right: 0.002+/-0.000 χ^2/NDF : 4950980.4/35

In: 0.002+/-0.000 χ^2/NDF : 2550309.5/35

Out: 0.002+/-0.000 χ^2/NDF : 3576769.6/38

All: 0.002+/-0.000 χ^2/NDF : 6127094.9/74

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 : 34030303.3/19

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 : 68652881.8/38

Right: -0.118+/-0.000

χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000

χ^2/NDF : 3966301520.8/35

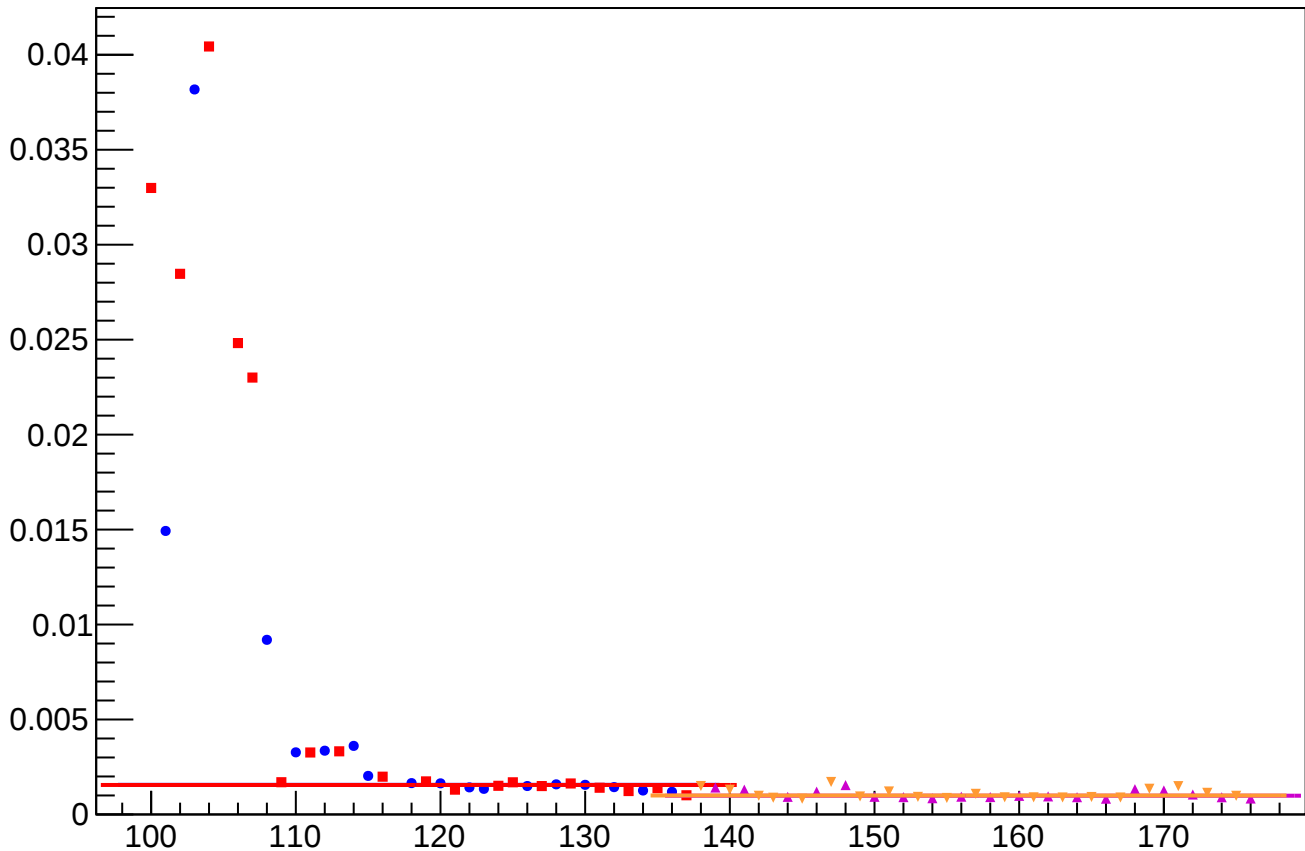
Out: -0.120+/-0.000

χ^2/NDF : 2541464879.1/38

All: -0.120+/-0.000

χ^2/NDF : 6508513258.5/7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2903607.4/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:1034777.0/19

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3538622.3/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:798361.8/18

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1835177.4/38

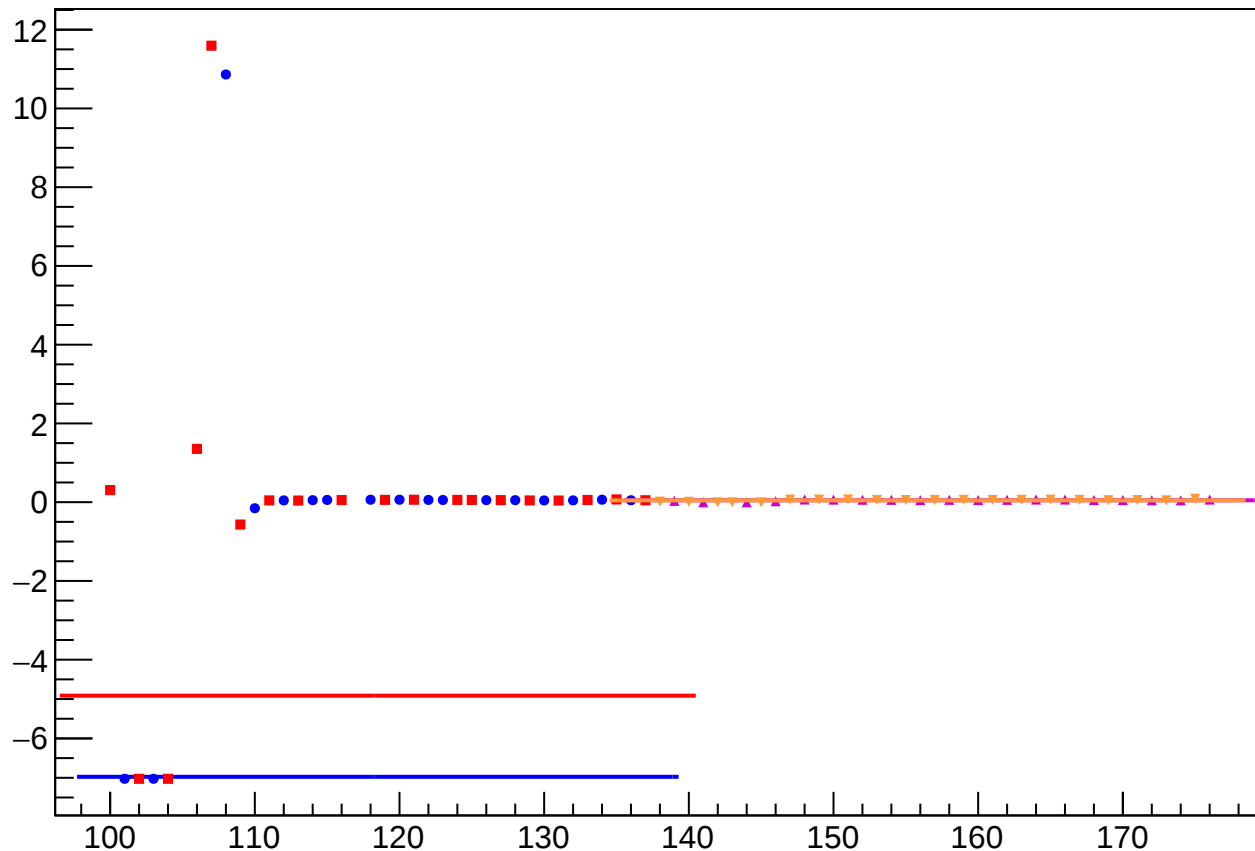
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 6442279.4/35

In: 0.001 $\pm$ 0.000 χ^2 /NDF:4792038.3/35

Out: 0.001 $\pm$ 0.000 χ^2 /NDF:5593945.7/38

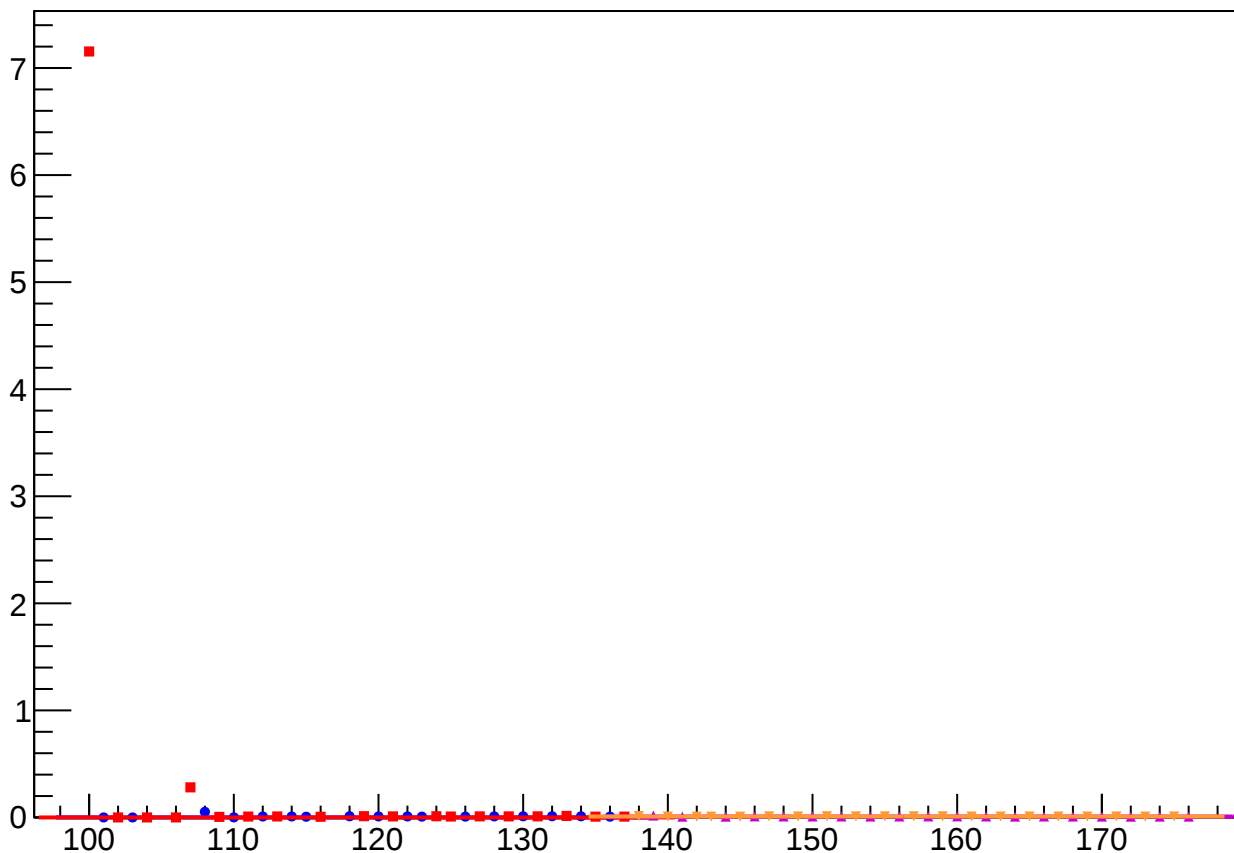
All: 0.001 $\pm$ 0.000 χ^2 /NDF: 10387576.5/74

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$
 Left Out: 0.046 ± 0.000 $\chi^2/\text{NDF}: 112429124.2/19$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$
 Left In: 0.048 ± 0.000 $\chi^2/\text{NDF}: 78143090.8/18$
 Left: 0.047 ± 0.000 $\chi^2/\text{NDF}: 191193040.9/38$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 In: -6.934 ± 0.000 $\chi^2/\text{NDF}: 15990264105741.5/35$
 Out: -4.886 ± 0.000 $\chi^2/\text{NDF}: 369117174381734.9/18$
 All: -5.866 ± 0.000 $\chi^2/\text{NDF}: 4409025701943$

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 : 453860.2/19

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 : 1045543.2/38

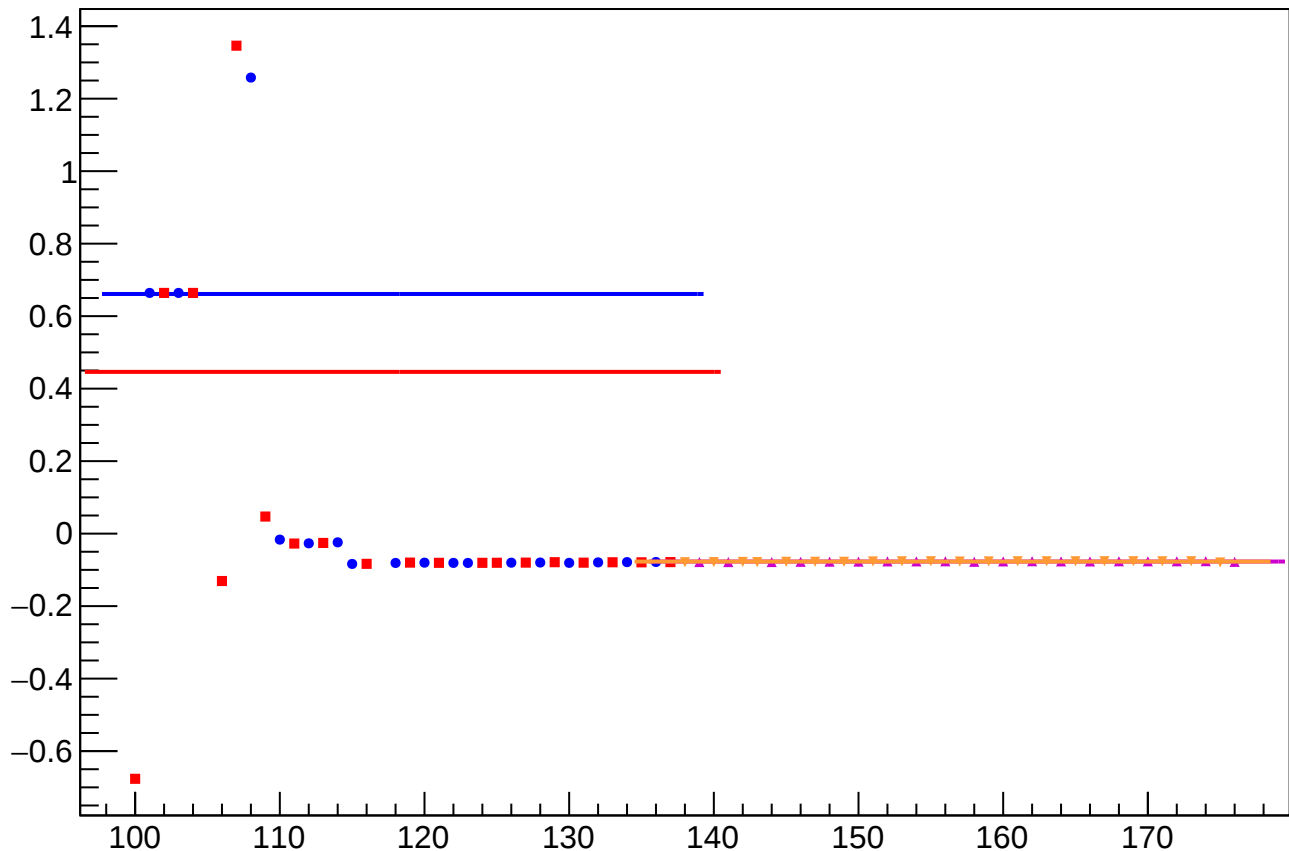
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 31440000.7/35

Out: 0.000+/-0.000 χ^2/NDF : 32274638.5/38

All: 0.000+/-0.000 χ^2/NDF : 63715637.9/74

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5678332616622.1/16

Left: -0.077+/-0.000

χ^2/NDF : 79664766.0/38

Left Out: -0.077+/-0.000

χ^2/NDF : 50980116.4/19

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.649+/-0.000

χ^2/NDF : 29353109634695.7/35

Out: 0.438+/-0.000

χ^2/NDF : 417621078832138.4/3

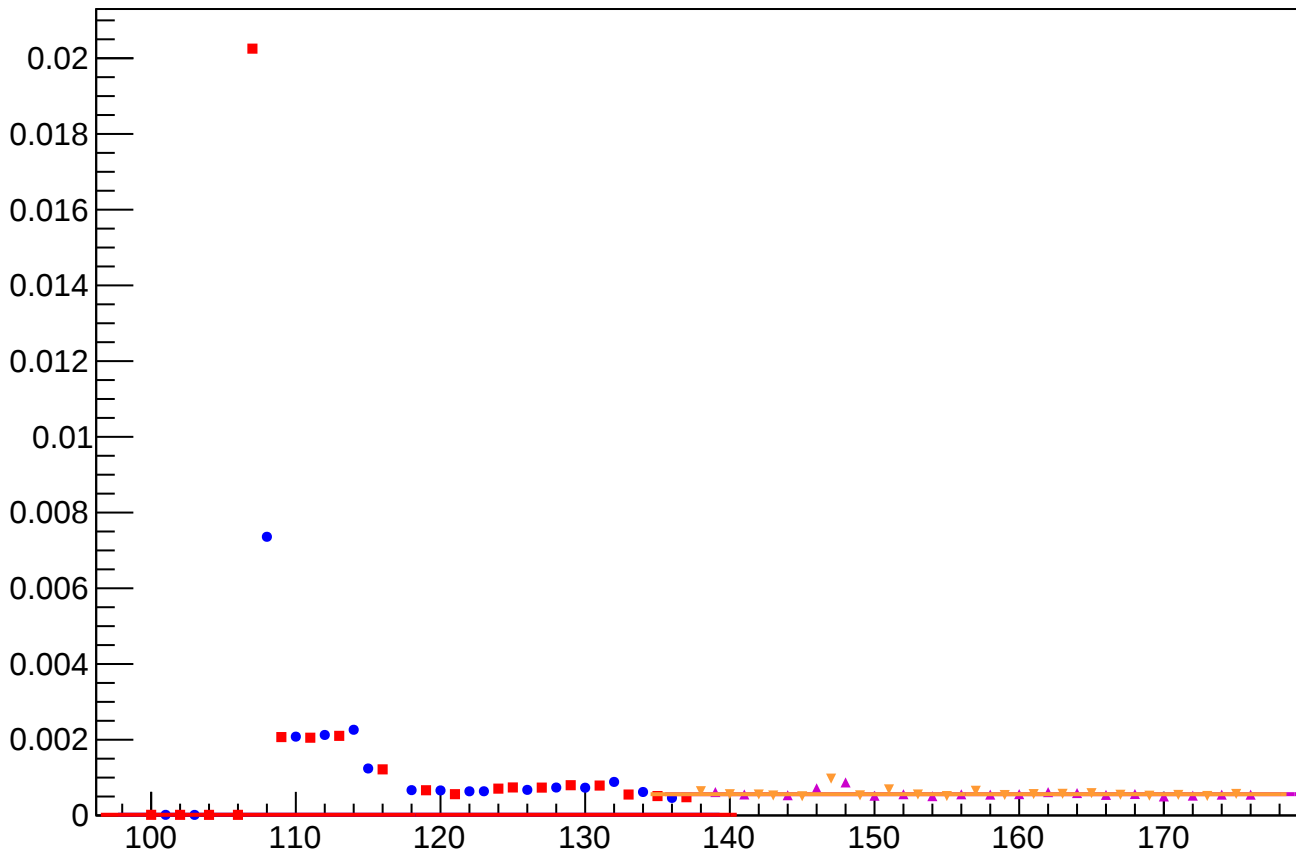
Left In: -0.077+/-0.000

χ^2/NDF : 28513153.0/18

All: 0.539+/-0.000

χ^2/NDF : 50847583747583

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 : 439593.7/19

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 : 792723.4/38

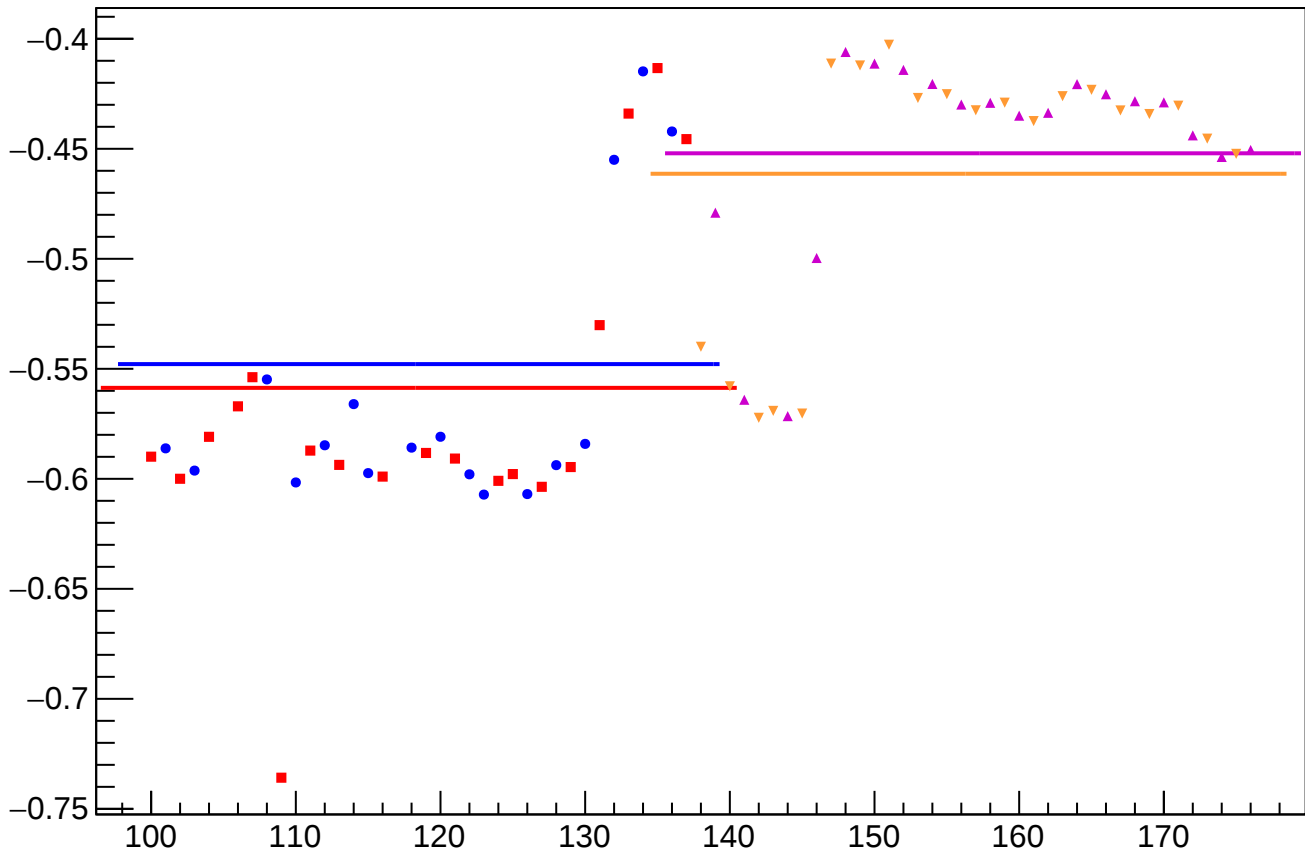
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 36049340.1/35

Out: 0.000+/-0.000 χ^2/NDF : 36211791.1/38

All: 0.000+/-0.000 χ^2/NDF : 72262374.4/74

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.461+/-0.000 χ^2/NDF : 106468892.8/19

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.452+/-0.000 χ^2/NDF : 75228540.1/18

Left: -0.457+/-0.000 χ^2/NDF : 183018047.6/38

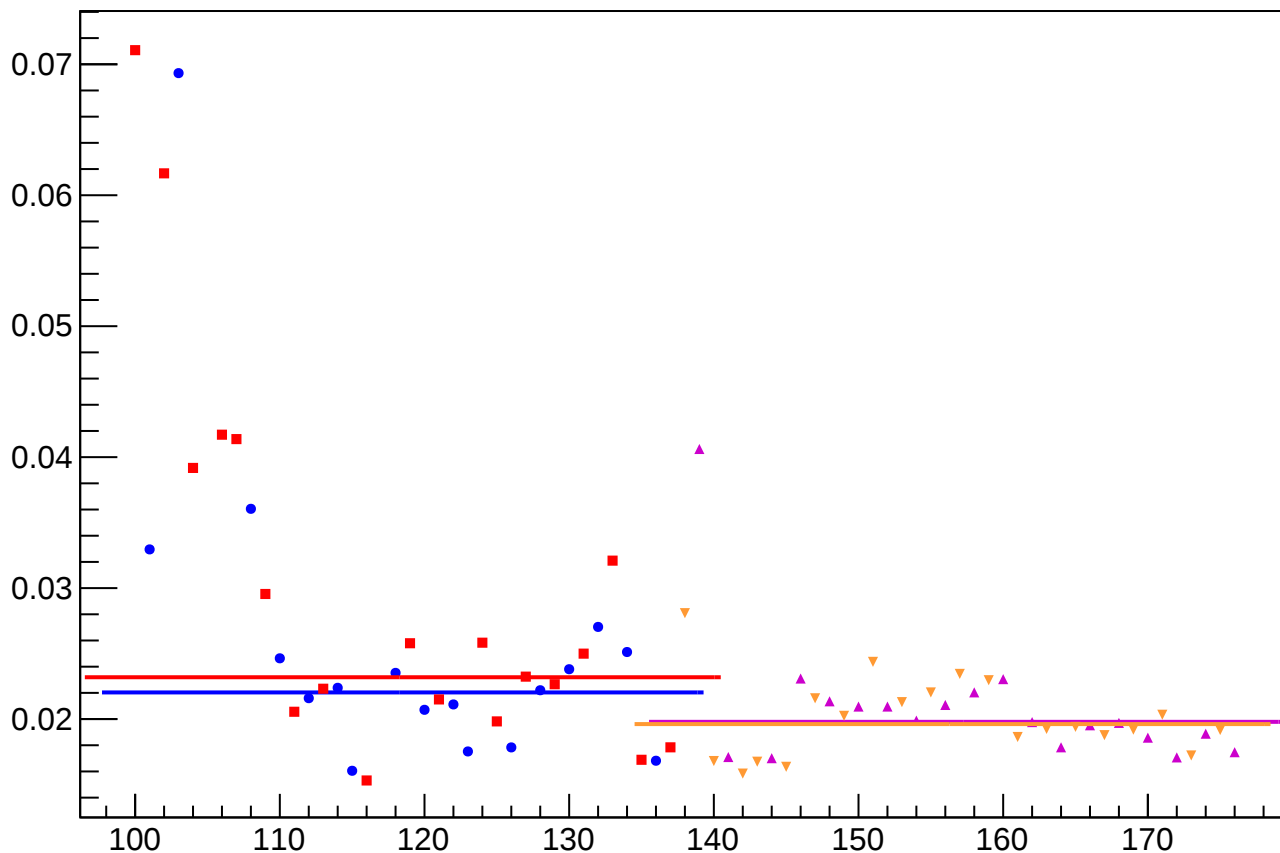
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.477+/-0.000 χ^2/NDF : 195277743.0/35

Out: -0.485+/-0.000 χ^2/NDF : 243390324.4/38

All: -0.481+/-0.000 χ^2/NDF : 439937793.5/74

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 : 425715.5/19

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 : 1000831.8/38

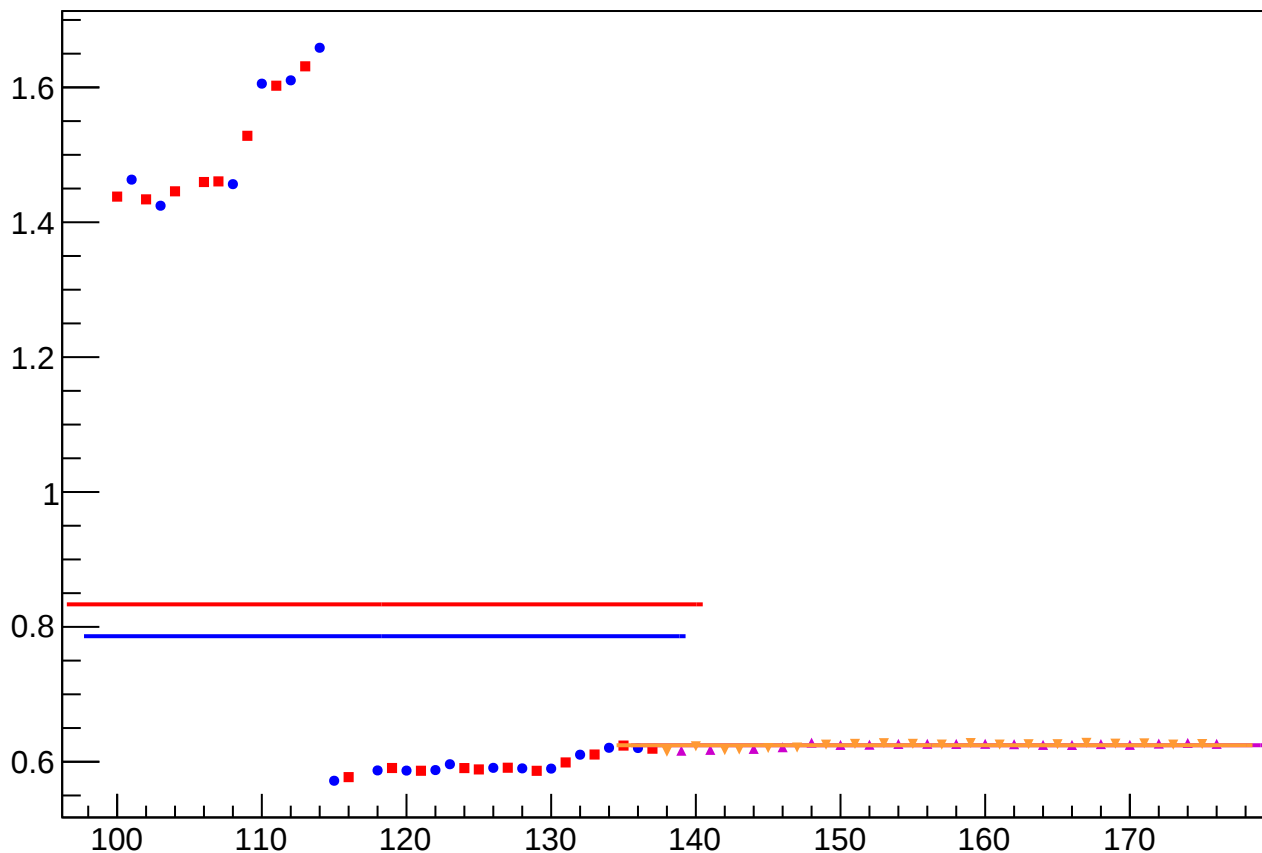
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.020+/-0.000 χ^2/NDF : 1611666.5/35

Out: 0.020+/-0.000 χ^2/NDF : 1775215.2/38

All: 0.020+/-0.000 χ^2/NDF : 3387358.3/74

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786+/-0.000 χ^2/NDF : 3590113316.1/16

Left Out: 0.624+/-0.000 χ^2/NDF :1262074.9/19

Right Out: 0.833+/-0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.624+/-0.000 χ^2/NDF :1058287.8/18

Left: 0.624+/-0.000 χ^2/NDF : 2320365.7/38

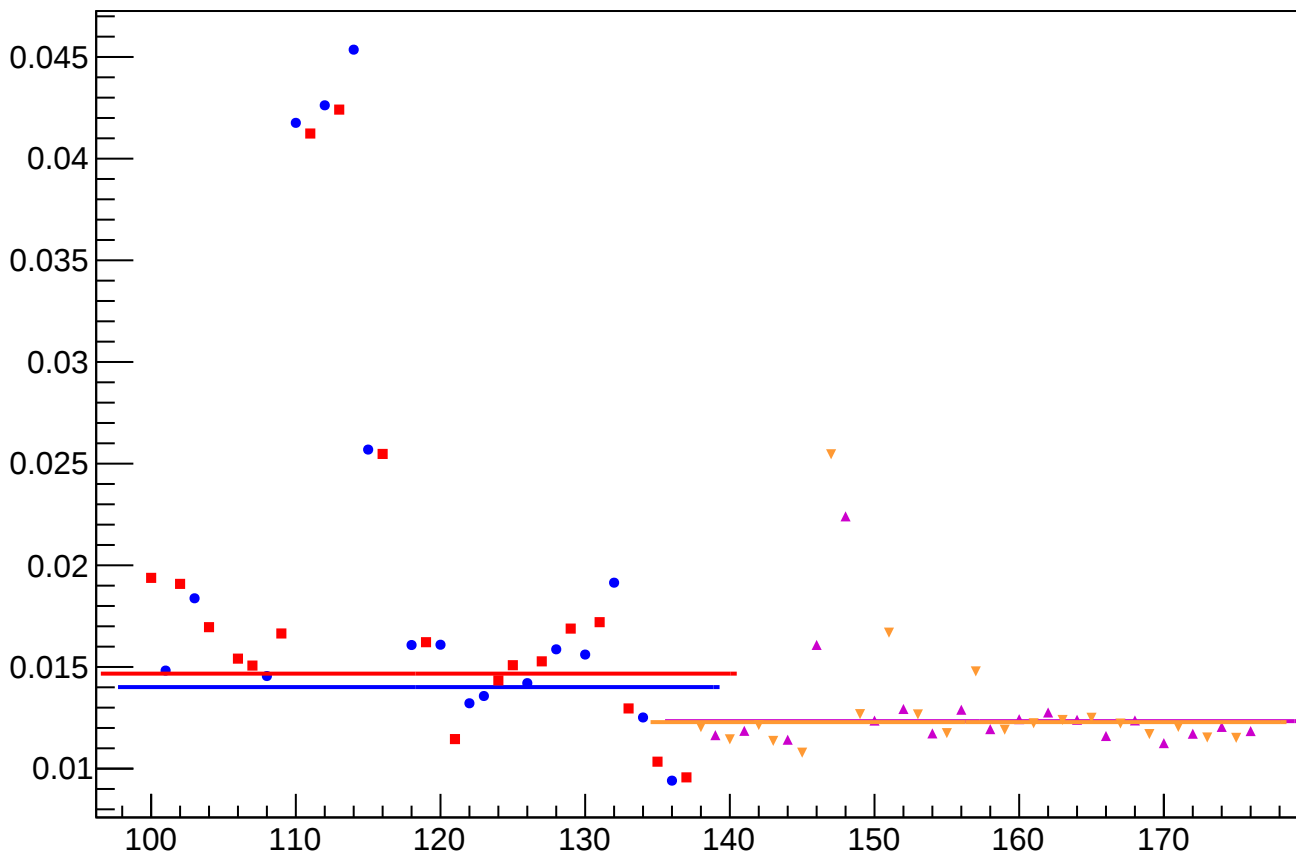
Right: 0.809+/-0.000 χ^2/NDF : 7778629767.1/35

In: 0.663+/-0.000 χ^2/NDF :4167022059.4/35

Out: 0.672+/-0.000 χ^2/NDF :5099645733.1/38

All: 0.668+/-0.000 χ^2/NDF : 9271609937.1/74

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 : 612485.5/19

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 : 1056762.7/38

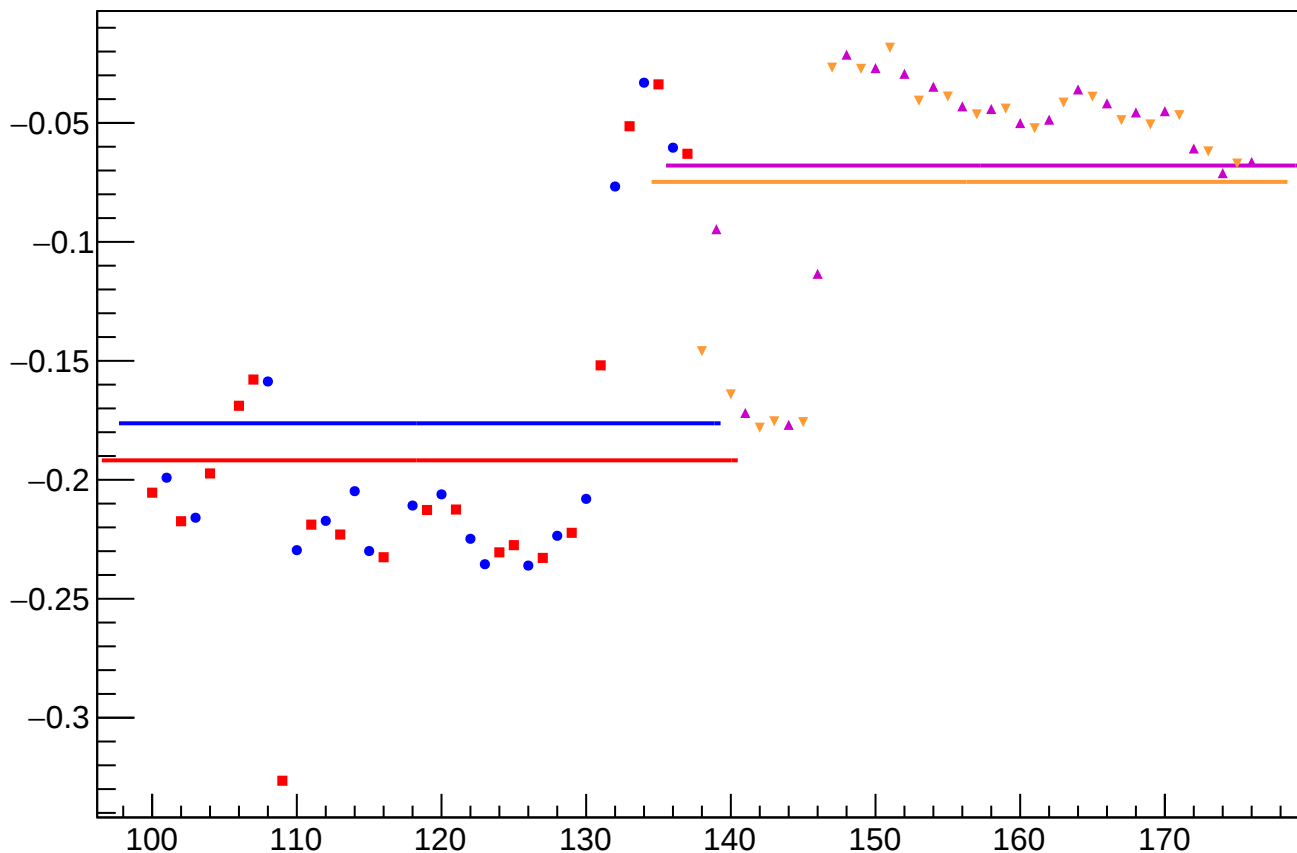
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF : 1972448.1/35

Out: 0.013+/-0.000 χ^2/NDF : 2121222.2/38

All: 0.013+/-0.000 χ^2/NDF : 4094779.3/74

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 : 101307839.4/19

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 : 177682326.4/38

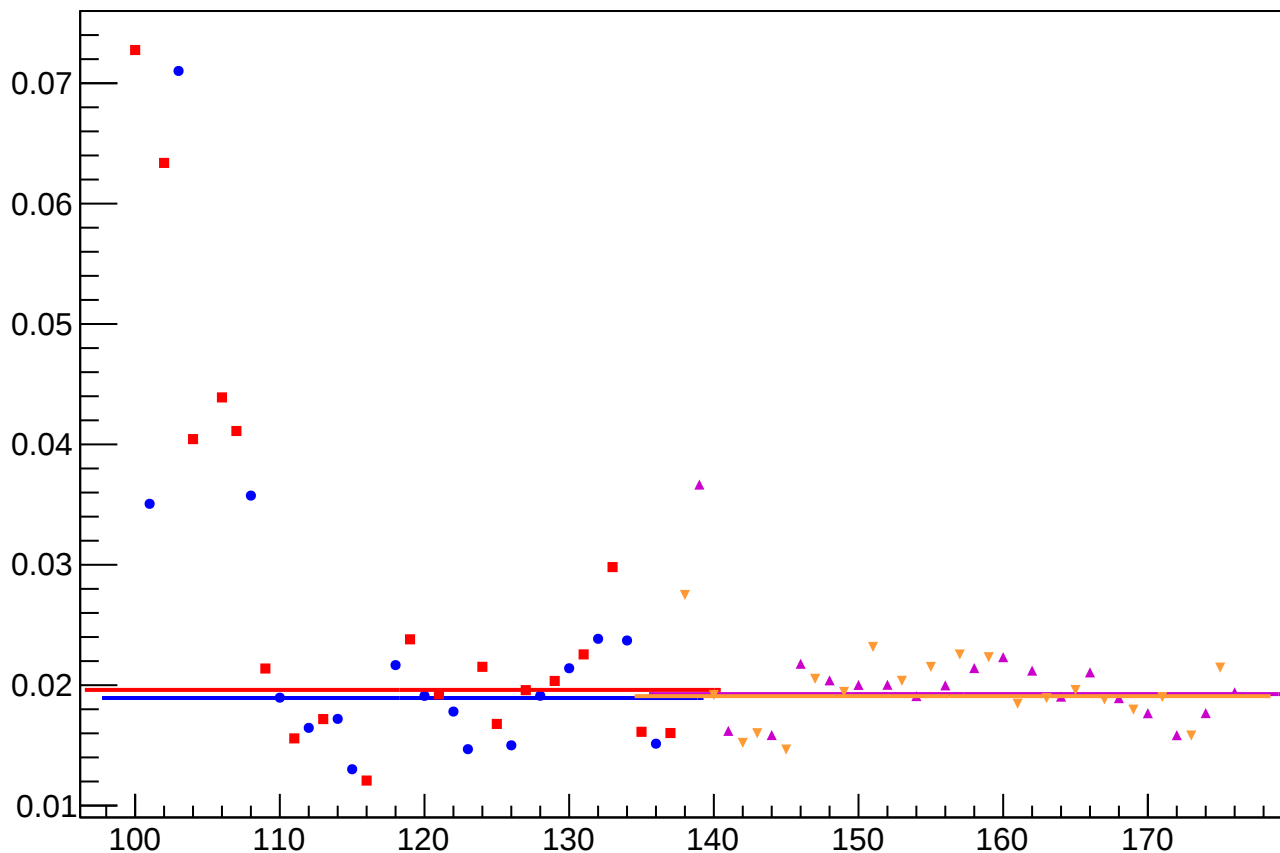
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.101+/-0.000 χ^2/NDF : 259911331.2/35

Out: -0.109+/-0.000 χ^2/NDF : 316824162.0/38

All: -0.105+/-0.000 χ^2/NDF : 578116371.6/74

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 : 495335.7/19

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 : 1057269.7/38

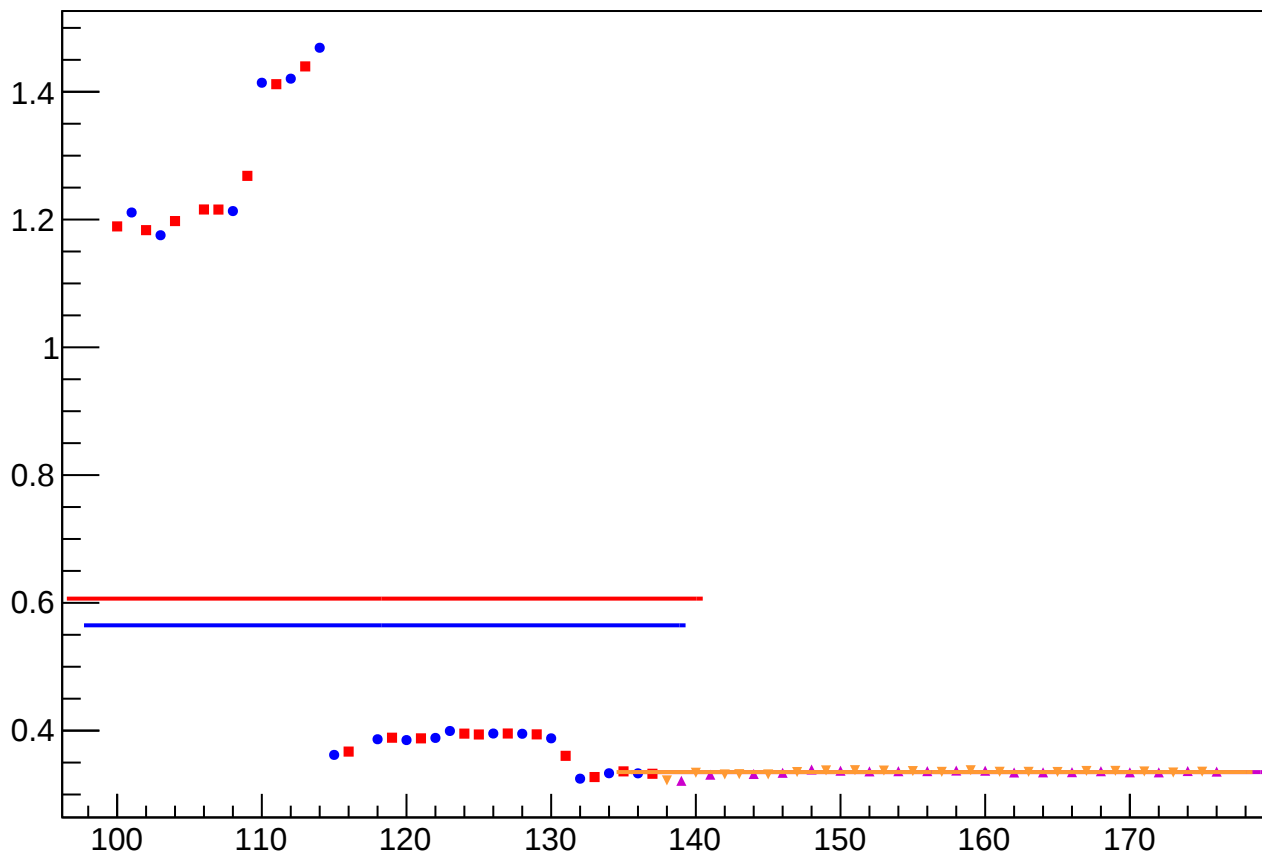
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1768892.3/35

Out: 0.019+/-0.000 χ^2/NDF : 1958192.2/38

All: 0.019+/-0.000 χ^2/NDF : 3727370.2/74

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:1135961.9/19

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: 2331115.5/38

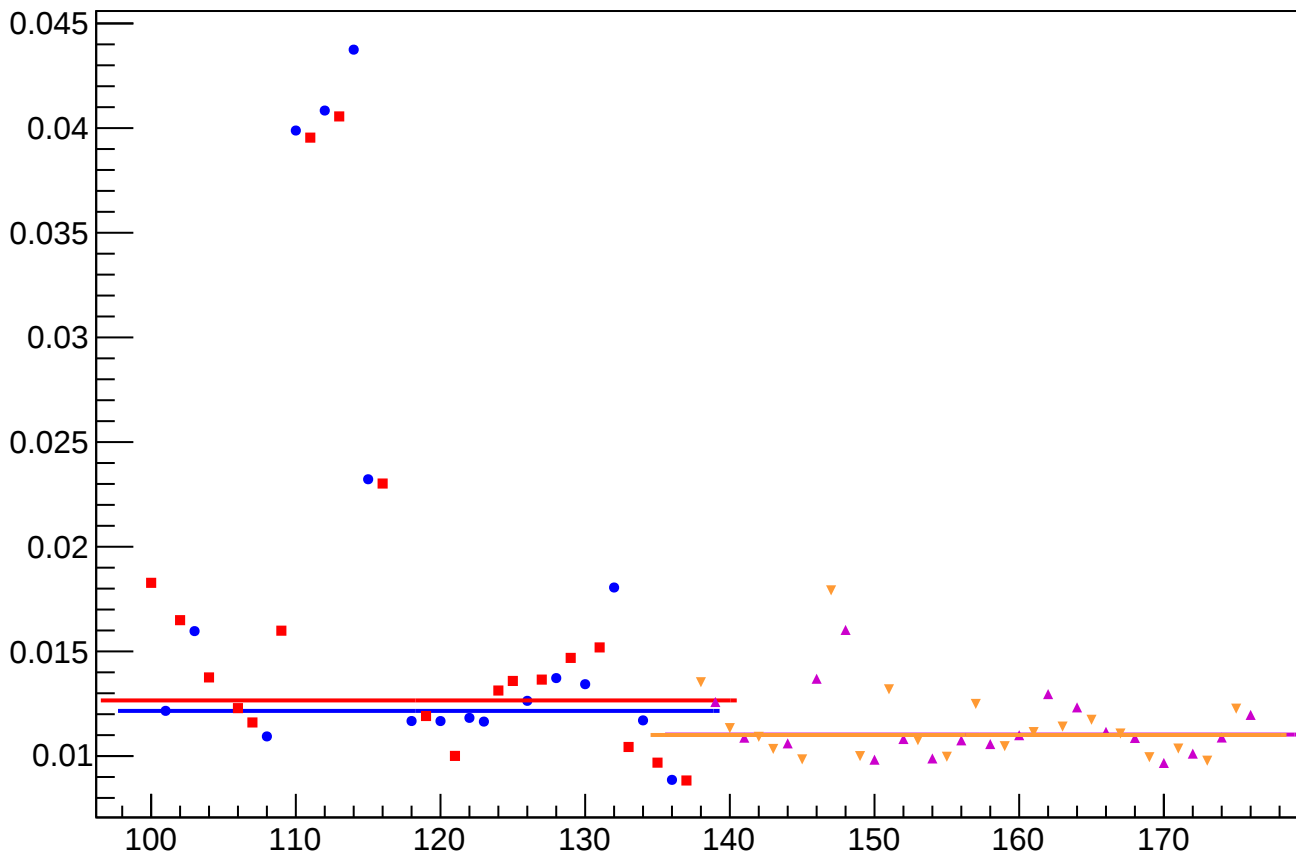
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10577520536.9/35

In: 0.393 $\pm$ 0.000 χ^2 /NDF:6548693539.1/35

Out: 0.400 $\pm$ 0.000 χ^2 /NDF:7580016301.6/38

All: 0.396 $\pm$ 0.000 χ^2 /NDF: 14132633248.1/77

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 : 467712.0/19

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 : 844922.1/38

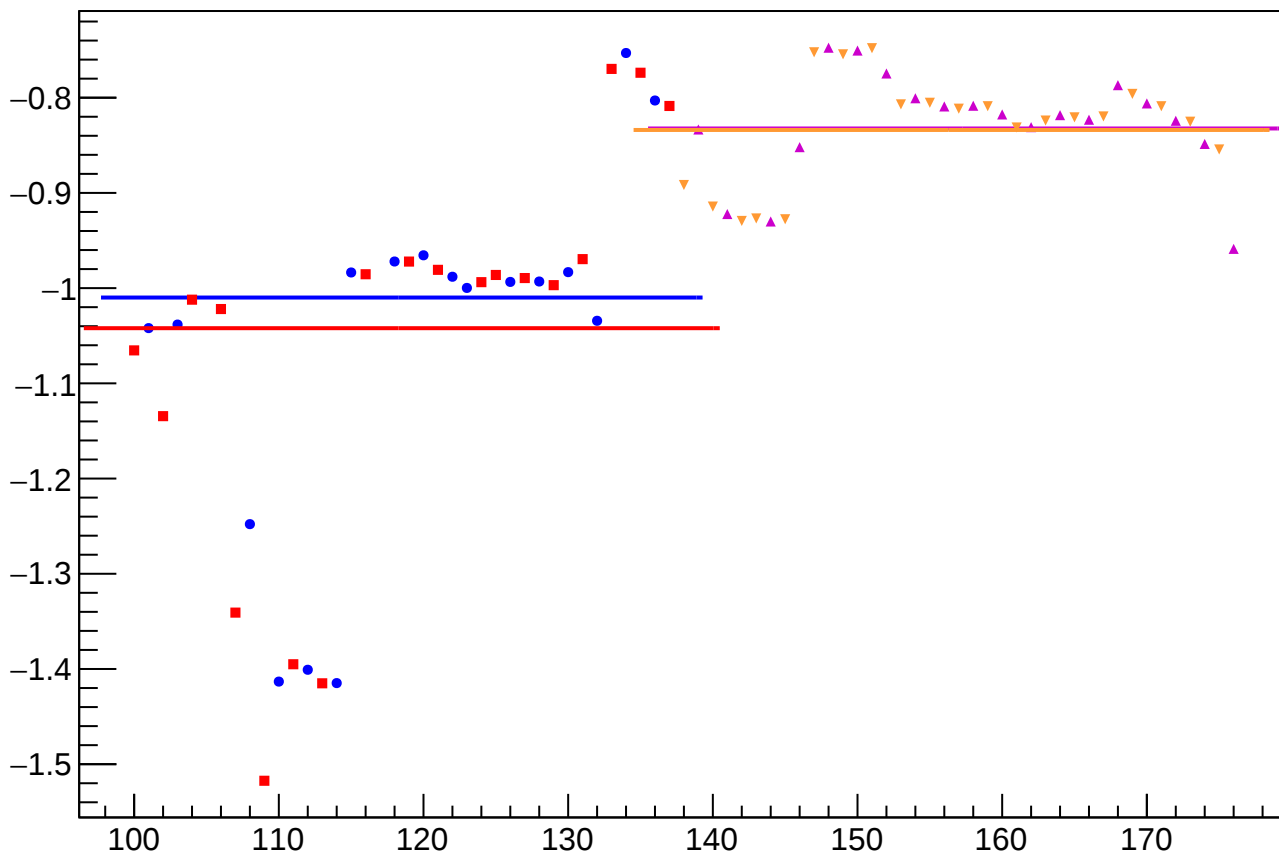
Right: 0.012+/-0.000 χ^2/NDF : 2589989.8/35

In: 0.011+/-0.000 χ^2/NDF : 1760537.0/35

Out: 0.011+/-0.000 χ^2/NDF : 1891025.7/38

All: 0.011+/-0.000 χ^2/NDF : 3652830.9/74

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010+/-0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.834+/-0.000 χ^2/NDF : 98575625.5/19

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: -0.833+/-0.000 χ^2/NDF : 206327800.7/38

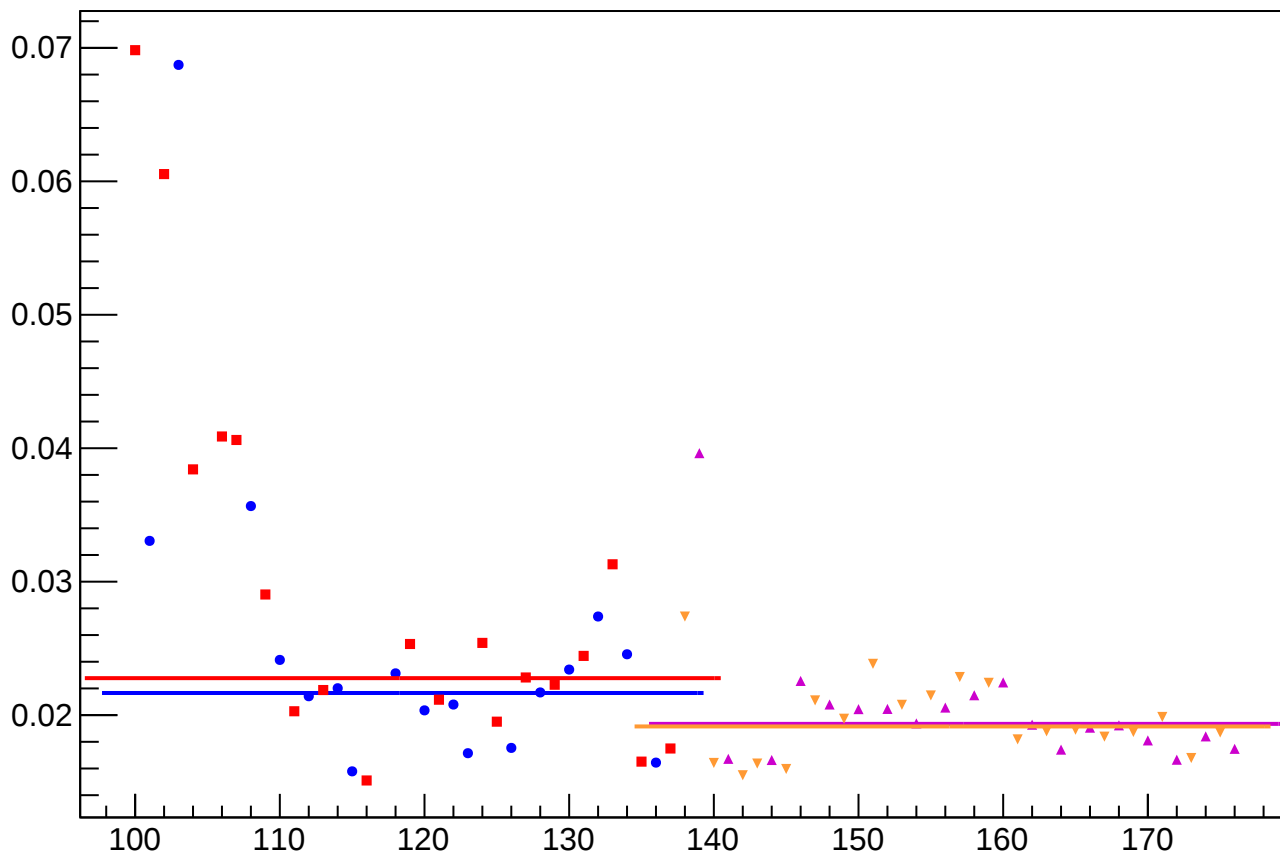
Right: -1.026+/-0.000 χ^2/NDF : 923225272.3/35

In: -0.878+/-0.000 χ^2/NDF : 749773402.5/35

Out: -0.884+/-0.000 χ^2/NDF : 967315604.8/38

All: -0.881+/-0.000 χ^2/NDF : 1717757227.5/77

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 : 424160.6/19

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 : 989220.1/38

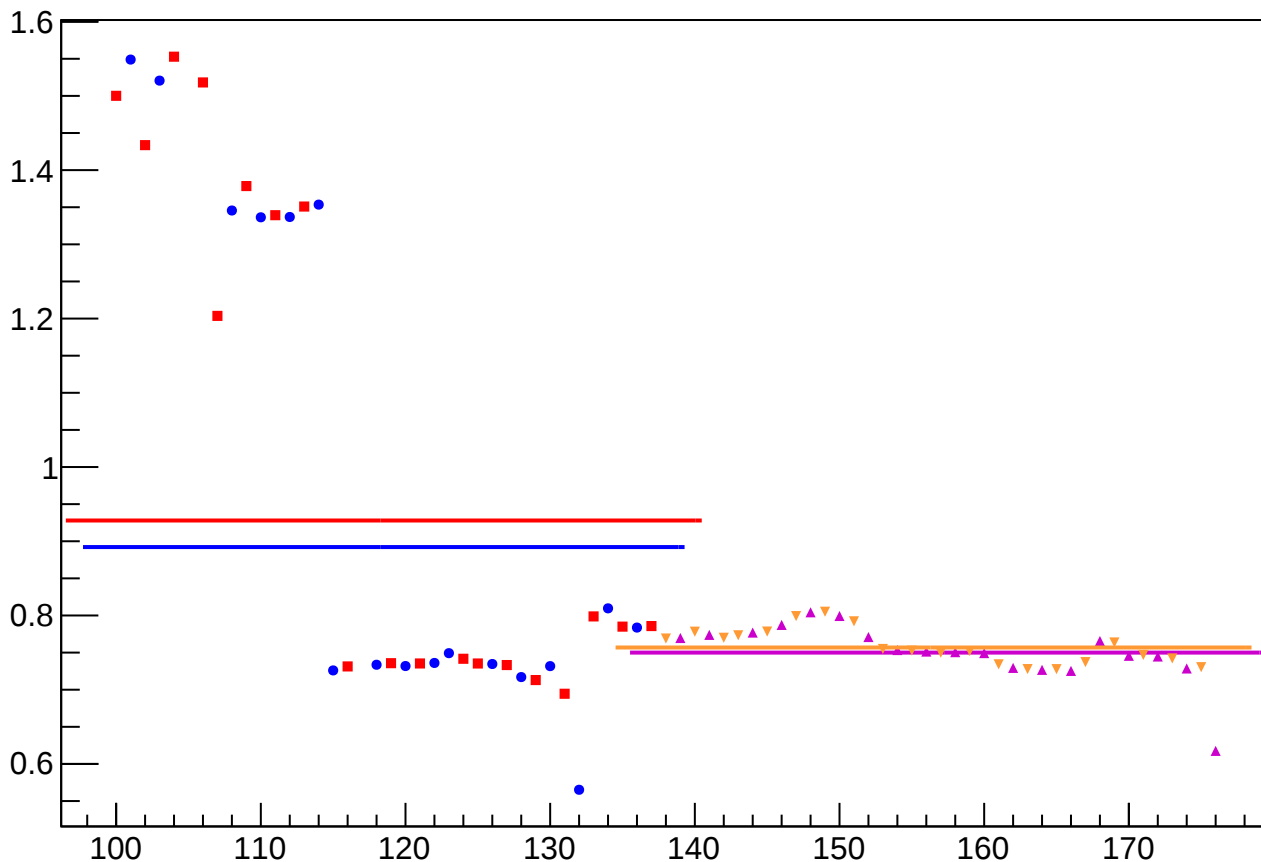
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1633796.7/35

Out: 0.020+/-0.000 χ^2/NDF : 1781437.9/38

All: 0.020+/-0.000 χ^2/NDF : 3415482.2/74

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2 /NDF: 2413732173.6/16

Left Out: 0.757 $\pm$ 0.000 χ^2 /NDF:43212302.7/19

Right Out: 0.928 $\pm$ 0.000 χ^2 /NDF: 2437542089.2/18

Left In: 0.750 $\pm$ 0.000 χ^2 /NDF:127938342.5/18

Left: 0.753 $\pm$ 0.000 χ^2 /NDF: 173341199.9/38

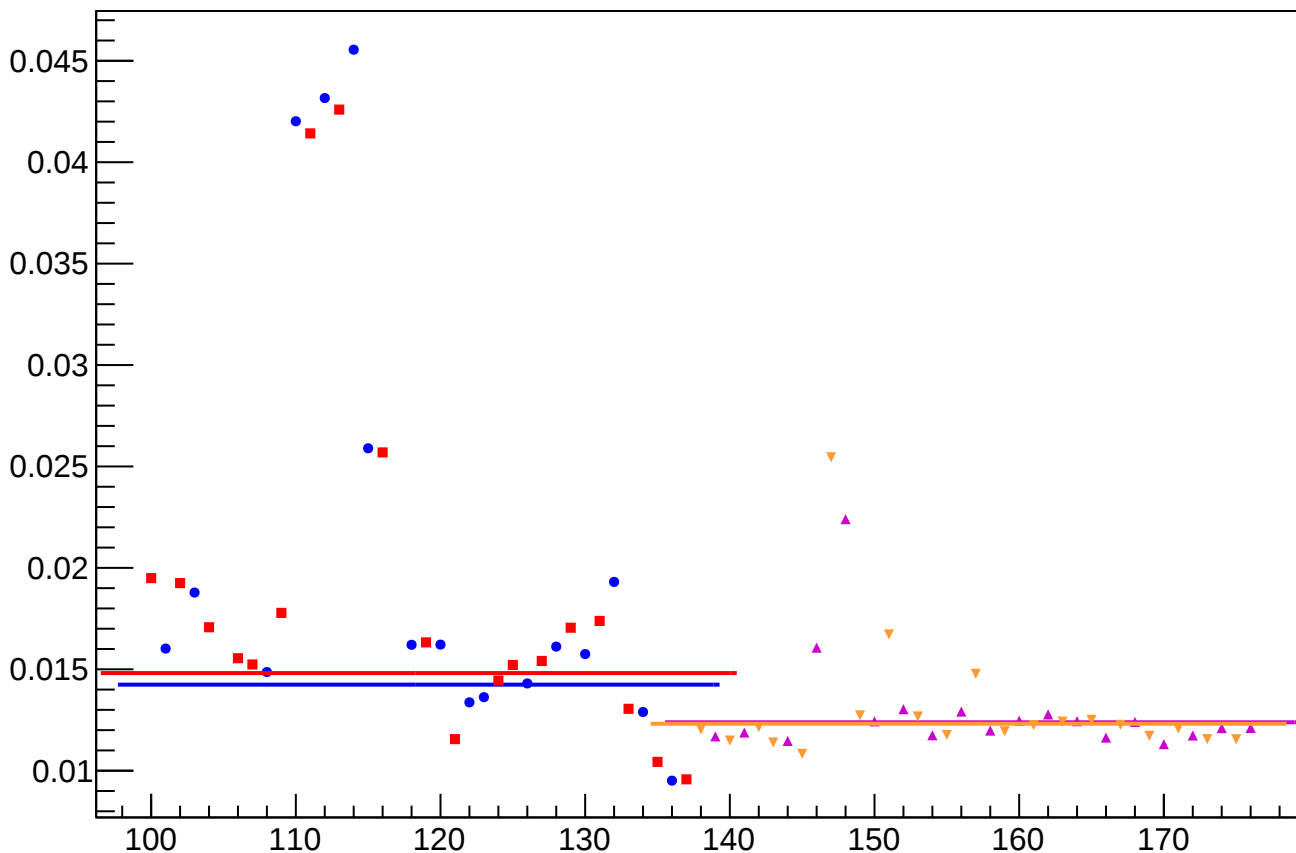
Right: 0.910 $\pm$ 0.000 χ^2 /NDF: 4868922187.9/35

In: 0.783 $\pm$ 0.000 χ^2 /NDF:2973159422.7/35

Out: 0.795 $\pm$ 0.000 χ^2 /NDF:3100400704.7/38

All: 0.789 $\pm$ 0.000 χ^2 /NDF: 6082389420.7/74

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:607698.5/19

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: 1045908.9/38

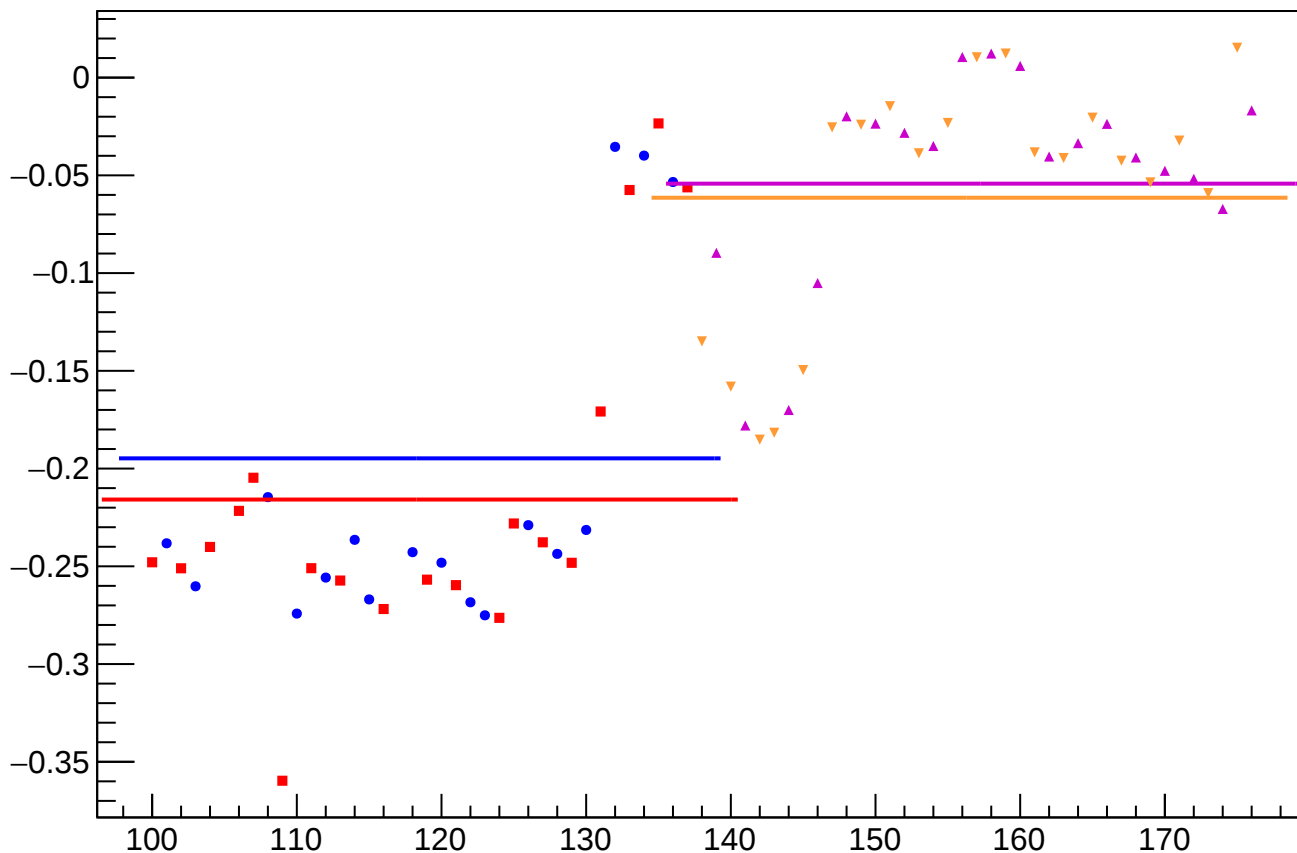
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 2698841.0/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2000346.1/35

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2146138.3/38

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 4146859.8/74

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.061+/-0.000 χ^2/NDF : 126349027.8/19

Right Out: -0.216+/-0.000 χ^2/NDF : 111983904.6/18

Left In: -0.054+/-0.000 χ^2/NDF : 100583846.7/18

Left: -0.058+/-0.000 χ^2/NDF : 227784752.5/38

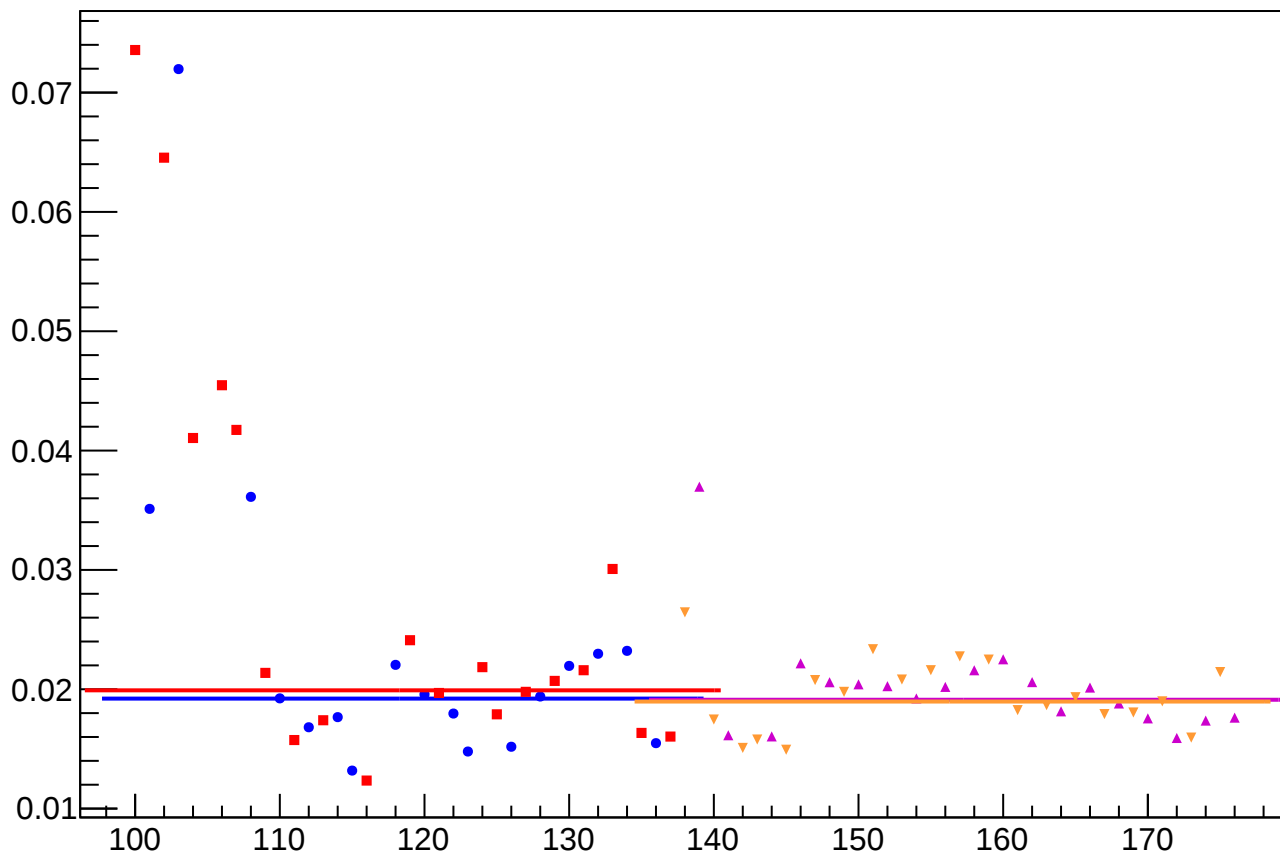
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.096+/-0.000 χ^2/NDF : 397978651.7/35

Out: -0.105+/-0.000 χ^2/NDF : 462560618.1/38

All: -0.100+/-0.000 χ^2/NDF : 862383824.3/74

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 : 493275.4/19

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 : 1076734.6/38

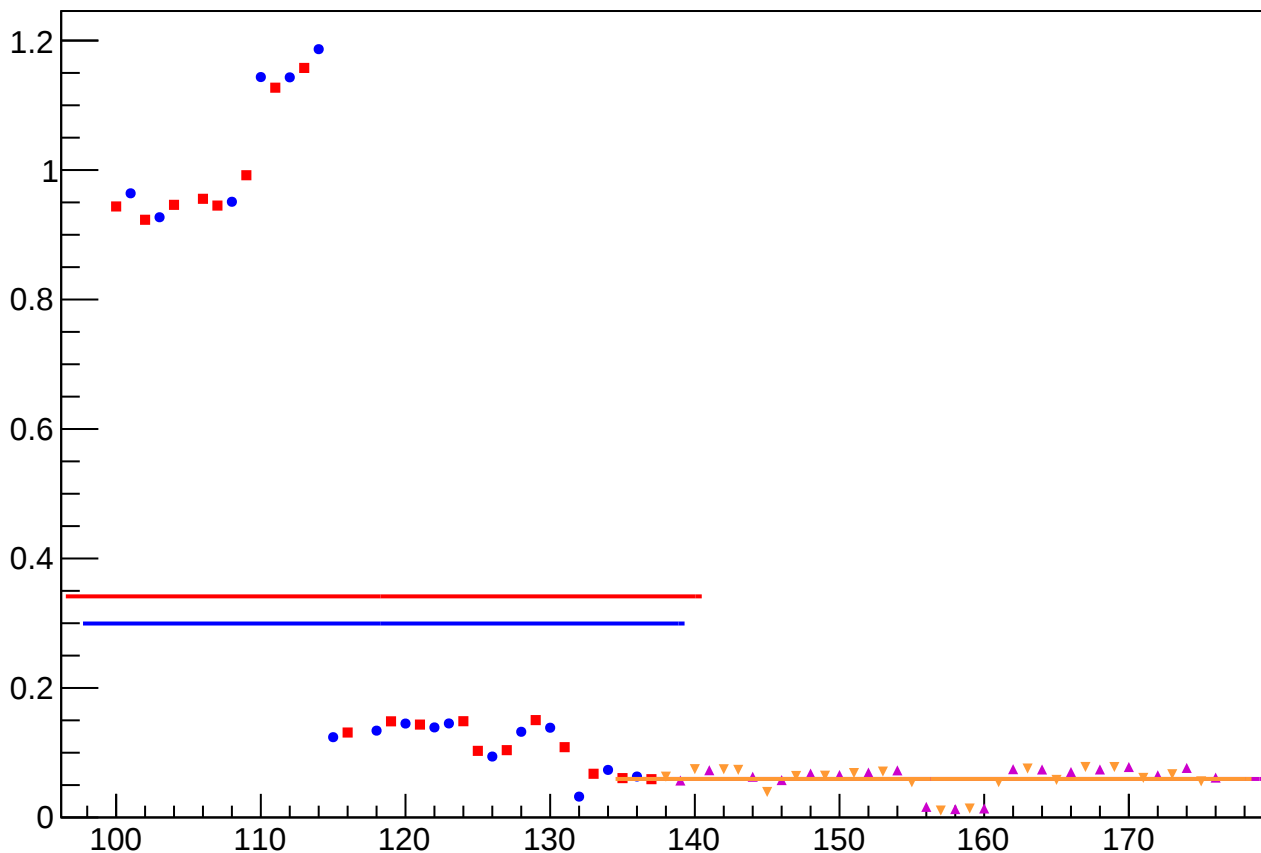
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1759989.3/35

Out: 0.019+/-0.000 χ^2/NDF : 1956818.5/38

All: 0.019+/-0.000 χ^2/NDF : 3717146.9/74

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.059+/-0.000 χ^2/NDF : 43926122.8/19

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: 0.059+/-0.000 χ^2/NDF : 101141065.0/38

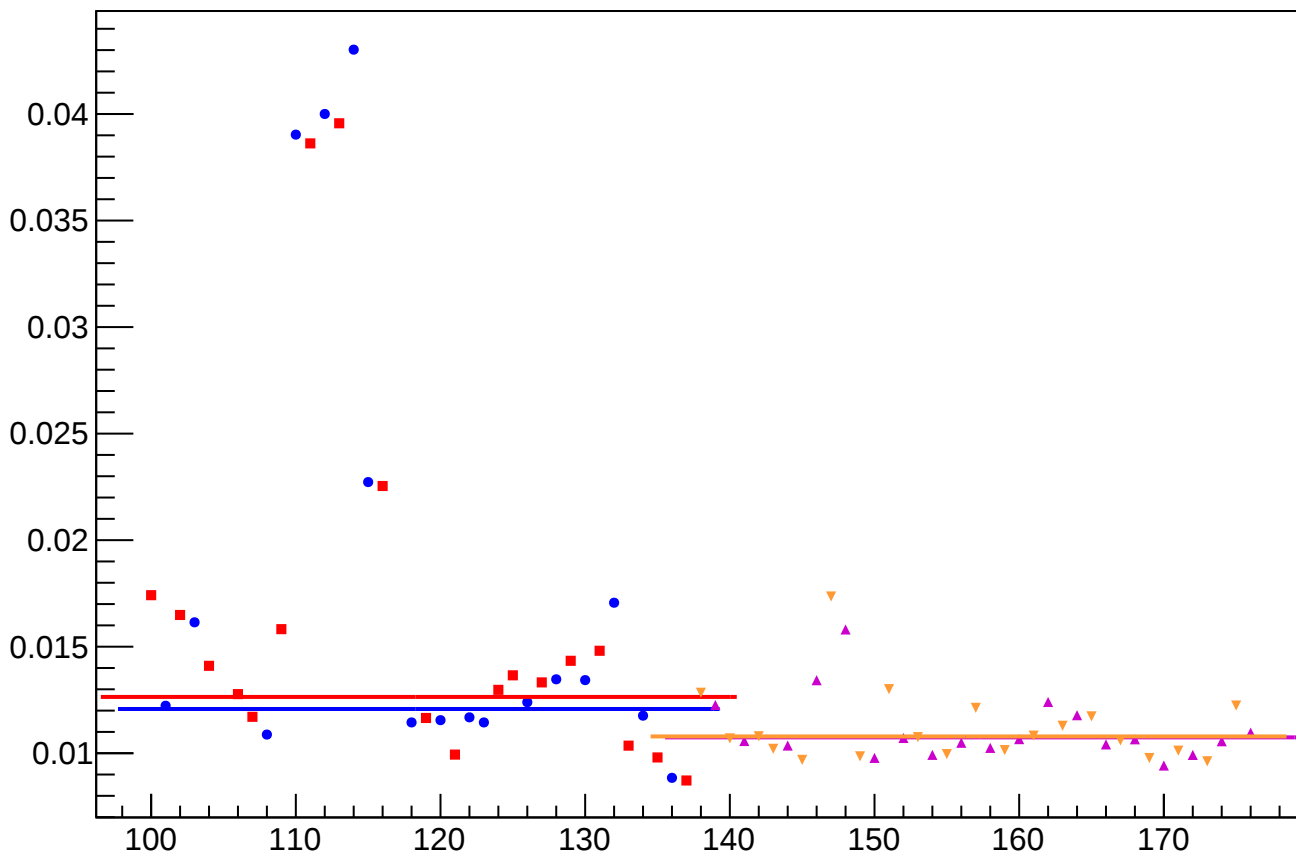
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.118+/-0.000 χ^2/NDF : 6917716190.8/35

Out: 0.125+/-0.000 χ^2/NDF : 7747103682.4/38

All: 0.121+/-0.000 χ^2/NDF : 14668617433.1/77

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: 442146.8/19

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: 792540.8/38

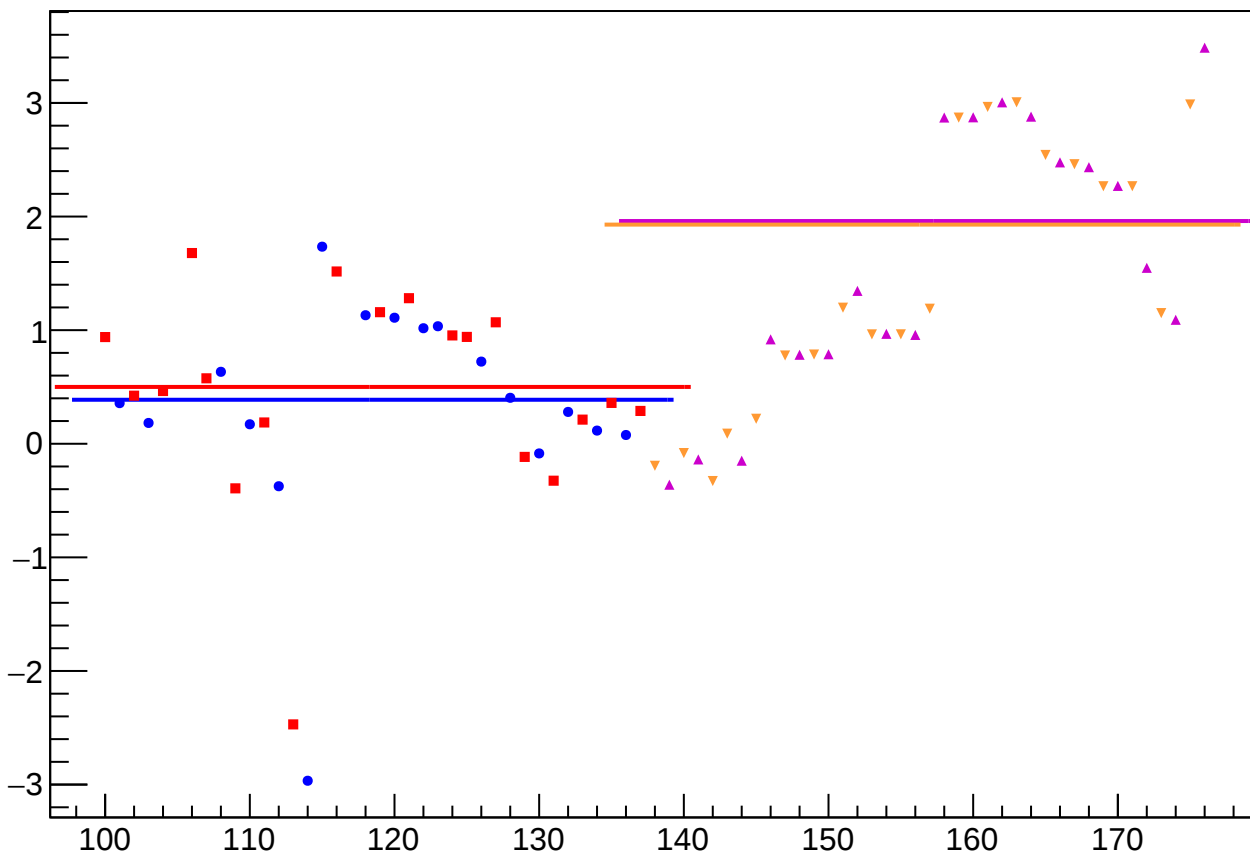
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 1736524.3/35

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 1874548.9/38

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3614609.4/74

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2 /NDF: 247912593.5/16

Left Out: 1.929 $\pm$ 0.000 χ^2 /NDF: 31636281444.8/19

Right Out: 0.500 $\pm$ 0.000 χ^2 /NDF: 983360928.1/18

Left In: 1.961 $\pm$ 0.000 χ^2 /NDF: 36435346735.2/18

Left: 1.945 $\pm$ 0.000 χ^2 /NDF: 68091710354.6/38

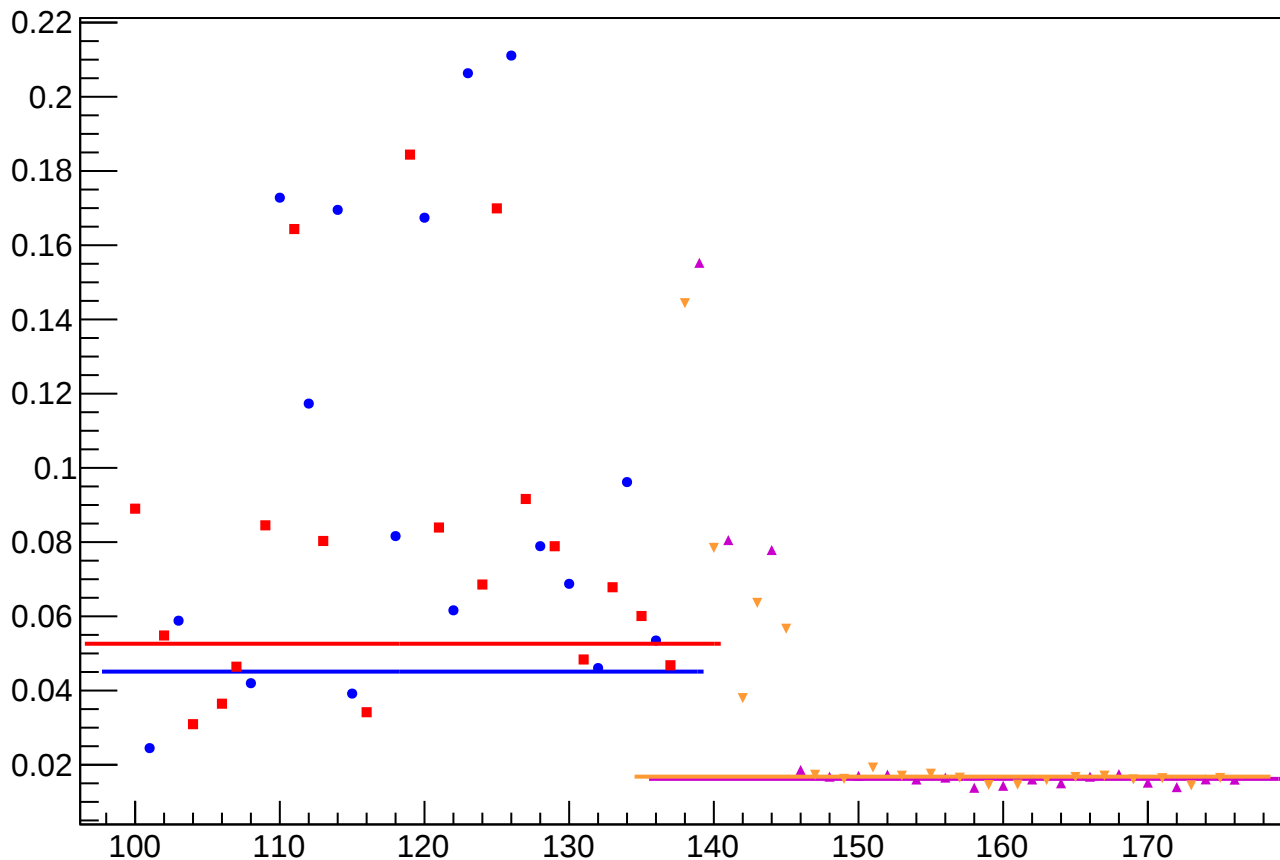
Right: 0.439 $\pm$ 0.000 χ^2 /NDF: 1241544973.3/35

In: 1.898 $\pm$ 0.000 χ^2 /NDF: 40838971407.1/35

Out: 1.877 $\pm$ 0.000 χ^2 /NDF: 35555436640.4/38

All: 1.888 $\pm$ 0.000 χ^2 /NDF: 76403722813.7/77

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 2846218.9/16

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2775850.0/19

Right Out: 0.053 $\pm$ 0.000 χ^2 /NDF: 2190515.9/18

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2380880.6/18

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5171230.5/38

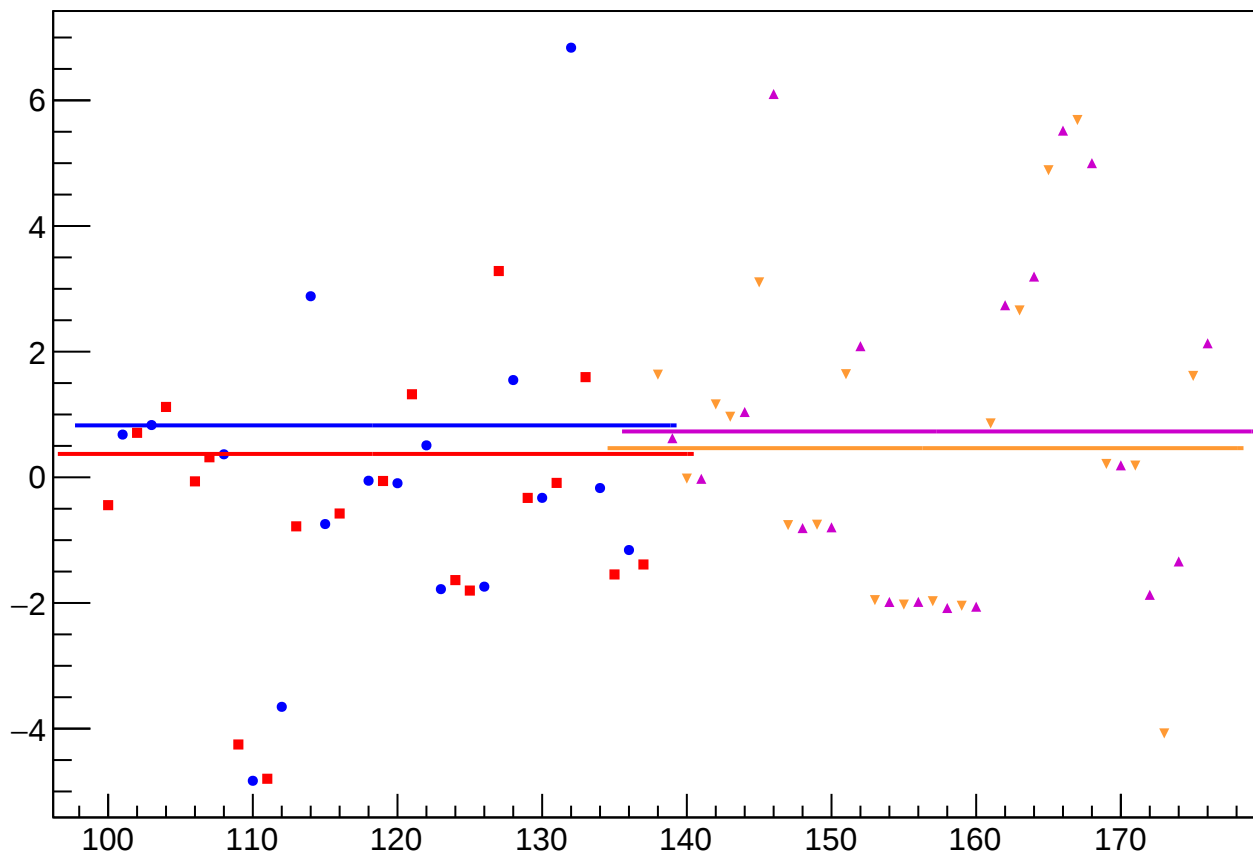
Right: 0.049 $\pm$ 0.000 χ^2 /NDF: 5127581.4/35

In: 0.017 $\pm$ 0.000 χ^2 /NDF:8031492.8/35

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:8654527.1/38

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 16710196.7/74

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.600+/-0.000

χ^2/NDF : 1023310194591.9/38

Left Out: 0.464+/-0.000

χ^2/NDF : 474340249987.1/19

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

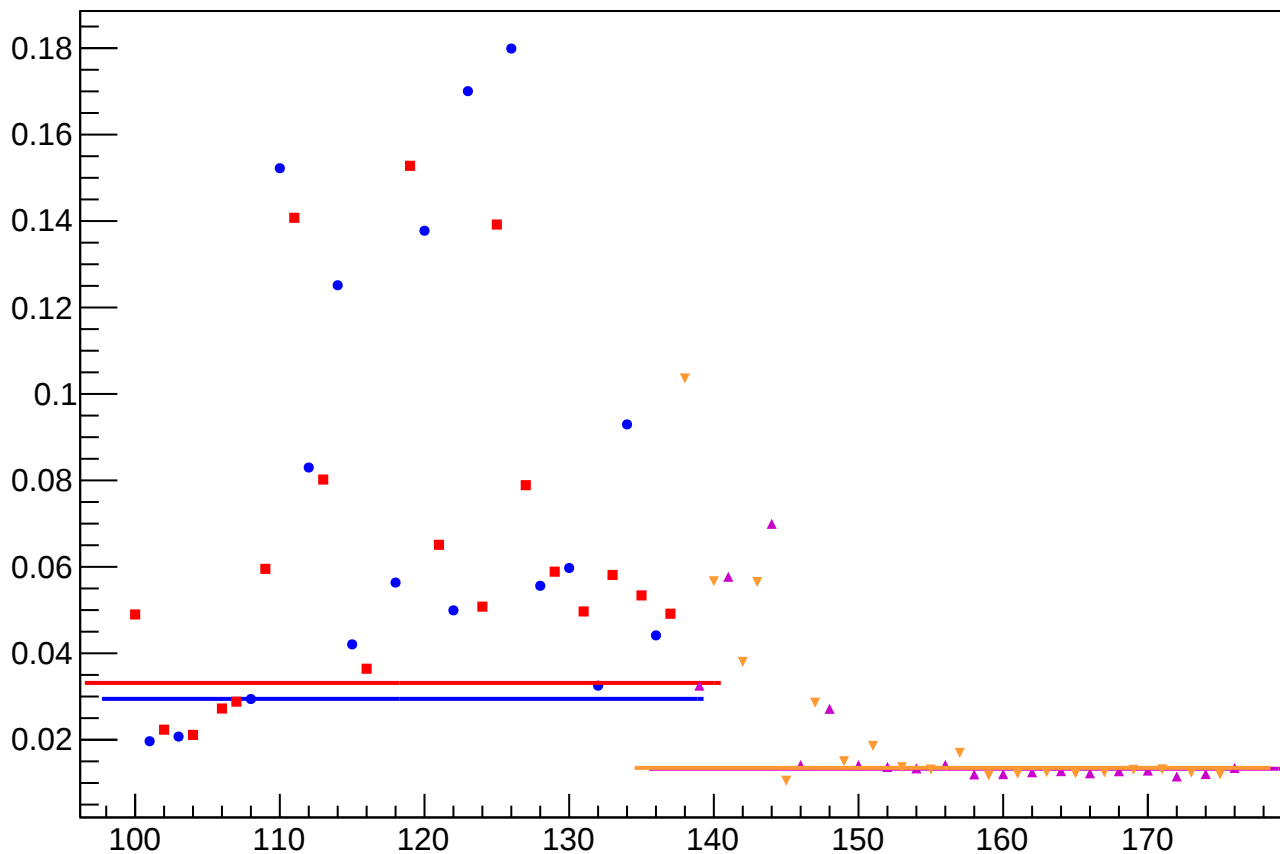
Out: 0.460+/-0.000

χ^2/NDF : 479341231431.2/38

All: 0.601+/-0.000

χ^2/NDF : 1039602798730.0

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 3053519.6/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2890997.5/19

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 3096820.9/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1927640.5/18

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 4821355.3/38

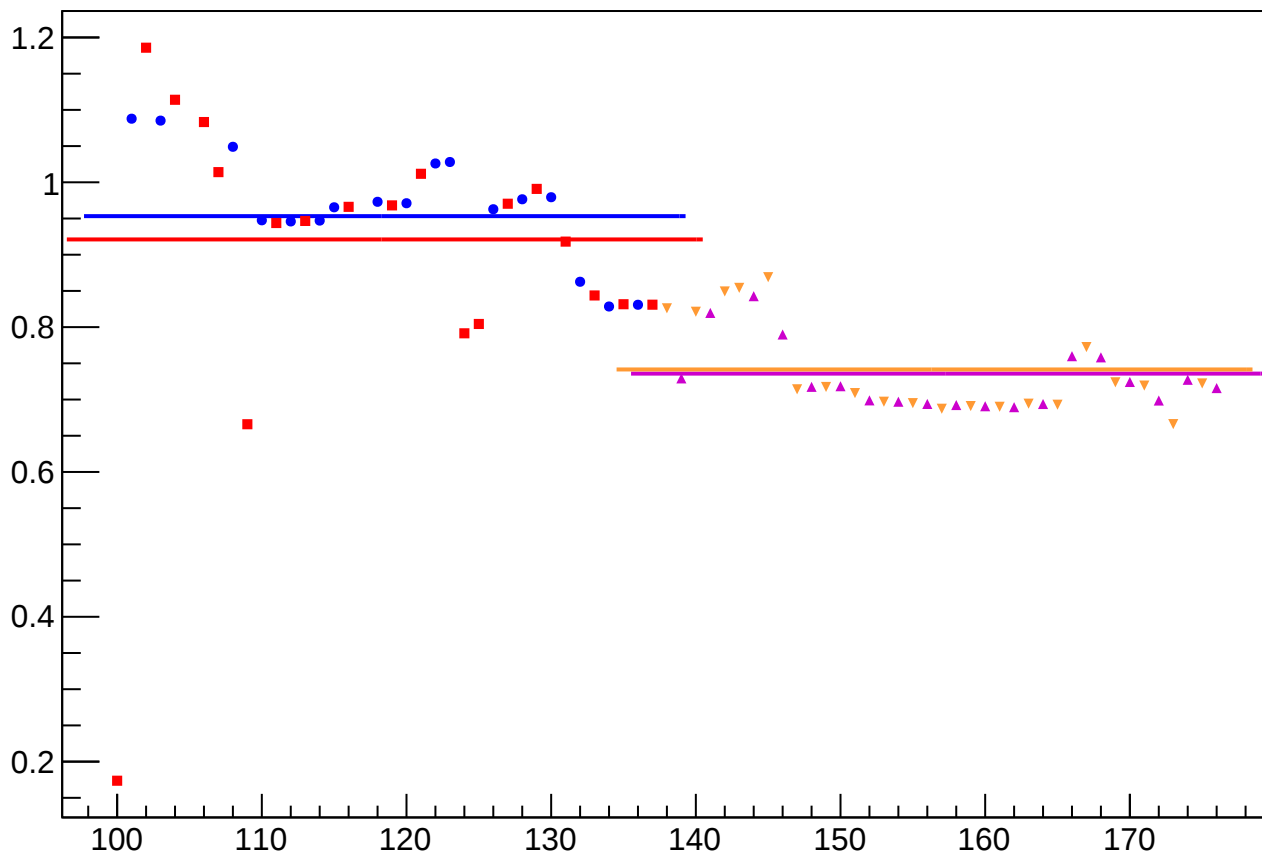
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6200704.9/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:6925888.1/35

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:8551729.6/38

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 15484996.1/74

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.742+/-0.000 χ^2/NDF :290596044.1/19

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.736+/-0.000 χ^2/NDF :165204634.1/18

Left: 0.739+/-0.000 χ^2/NDF : 456950416.7/38

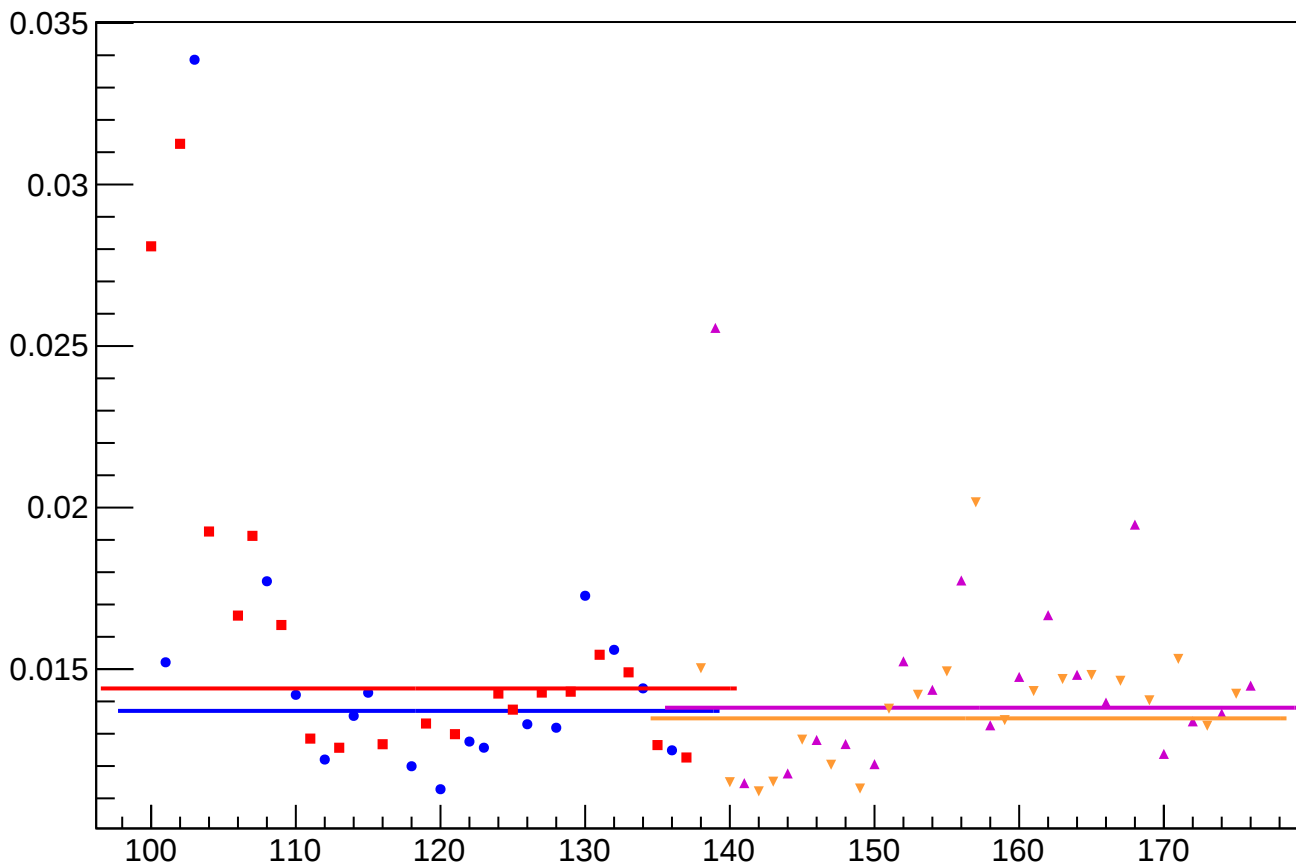
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.804+/-0.000 χ^2/NDF :1346409108.2/35

Out: 0.793+/-0.000 χ^2/NDF :1337591902.3/38

All: 0.799+/-0.000 χ^2/NDF : 2689422608.5/74

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013+/-0.000 χ^2/NDF : 397772.5/19

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 : 1134172.2/38

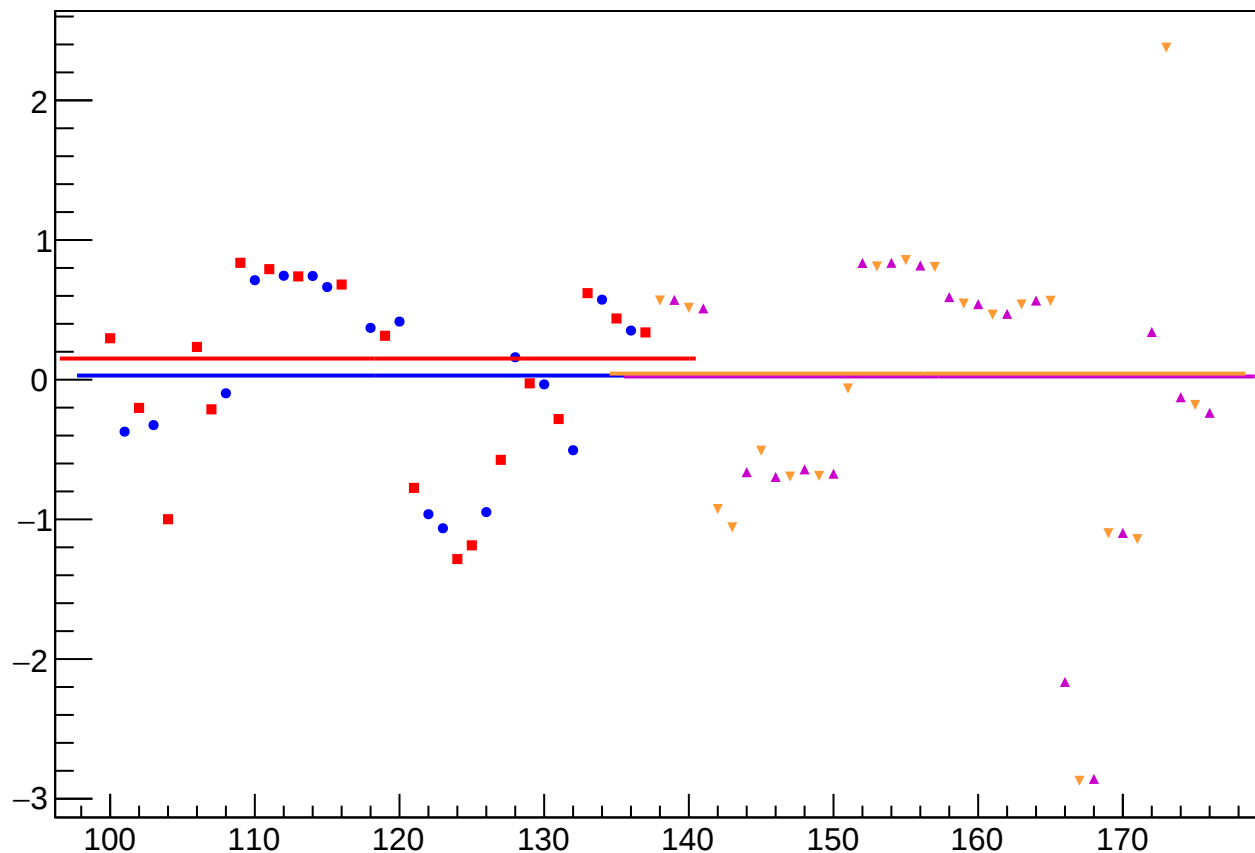
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1275527.7/35

Out: 0.014+/-0.000 χ^2/NDF : 935308.7/38

All: 0.014+/-0.000 χ^2/NDF : 2210933.6/74

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 6294824795.0/16

Left Out: 0.044 $\pm$ 0.000 χ^2 /NDF: 95134438318.2/19

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: 0.033 $\pm$ 0.000 χ^2 /NDF: 173689128183.3/38

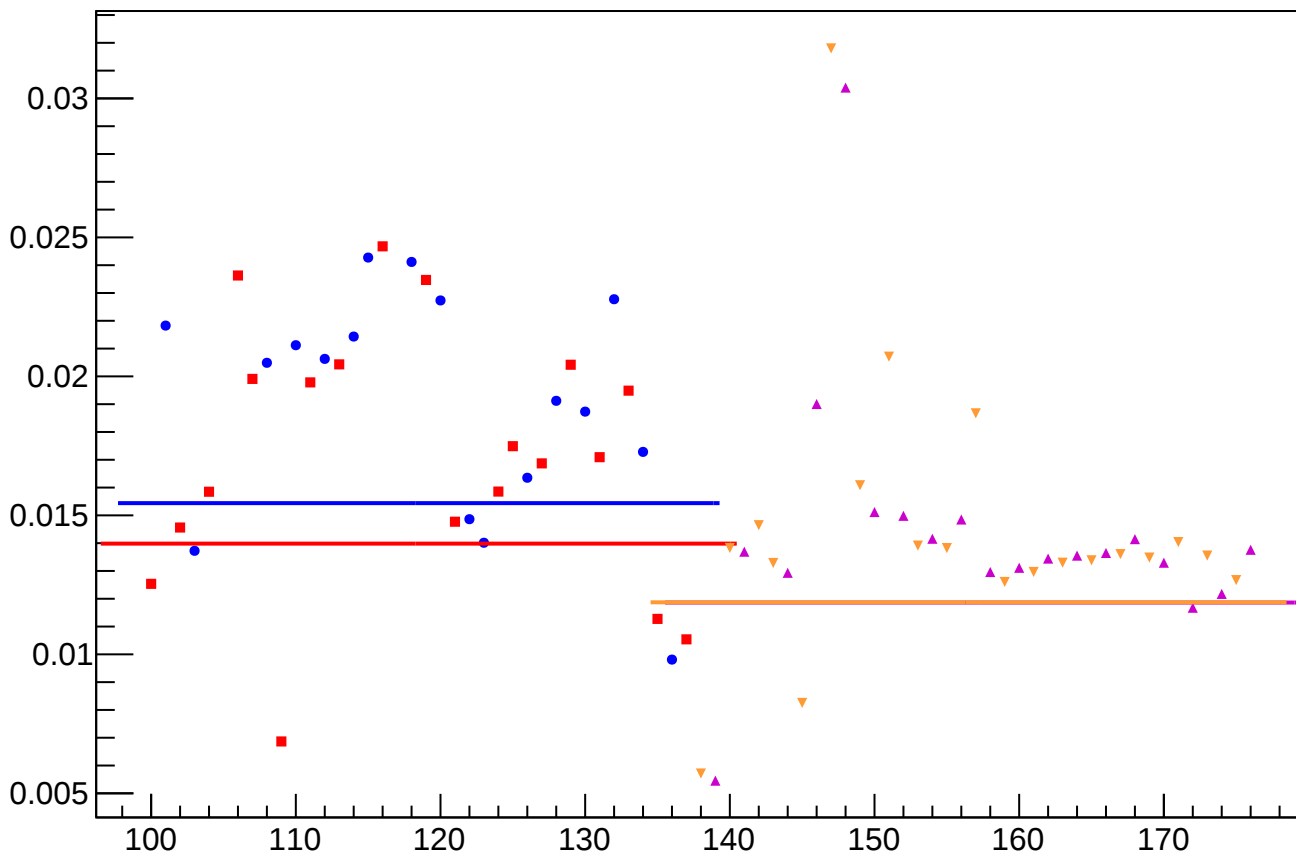
Right: 0.096 $\pm$ 0.000 χ^2 /NDF: 19149304558.7/35

In: 0.024 $\pm$ 0.000 χ^2 /NDF: 84831253077.8/35

Out: 0.070 $\pm$ 0.000 χ^2 /NDF: 108049010637.1/38

All: 0.048 $\pm$ 0.000 χ^2 /NDF: 192998553926.4

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 : 3045231.1/19

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 : 6014312.5/38

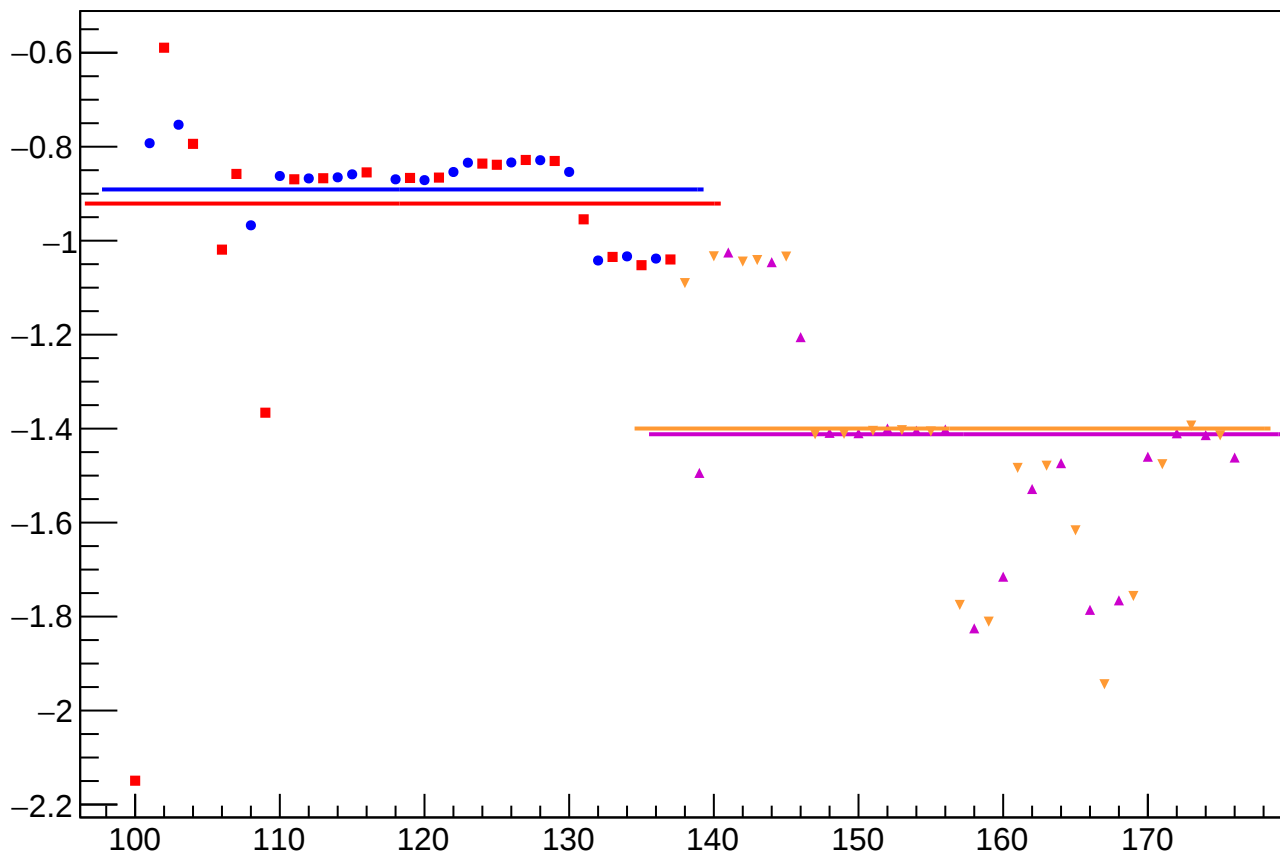
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4610003.1/35

Out: 0.012+/-0.000 χ^2/NDF : 4799859.7/38

All: 0.012+/-0.000 χ^2/NDF : 9416311.6/74

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.400+/-0.000 χ^2/NDF : 718096448.5/19

Right Out: -0.921+/-0.000 χ^2/NDF : 131183059.9/18

Left In: -1.412+/-0.000 χ^2/NDF : 512097209.2/18

Left: -1.406+/-0.000 χ^2/NDF : 1230969202.9/38

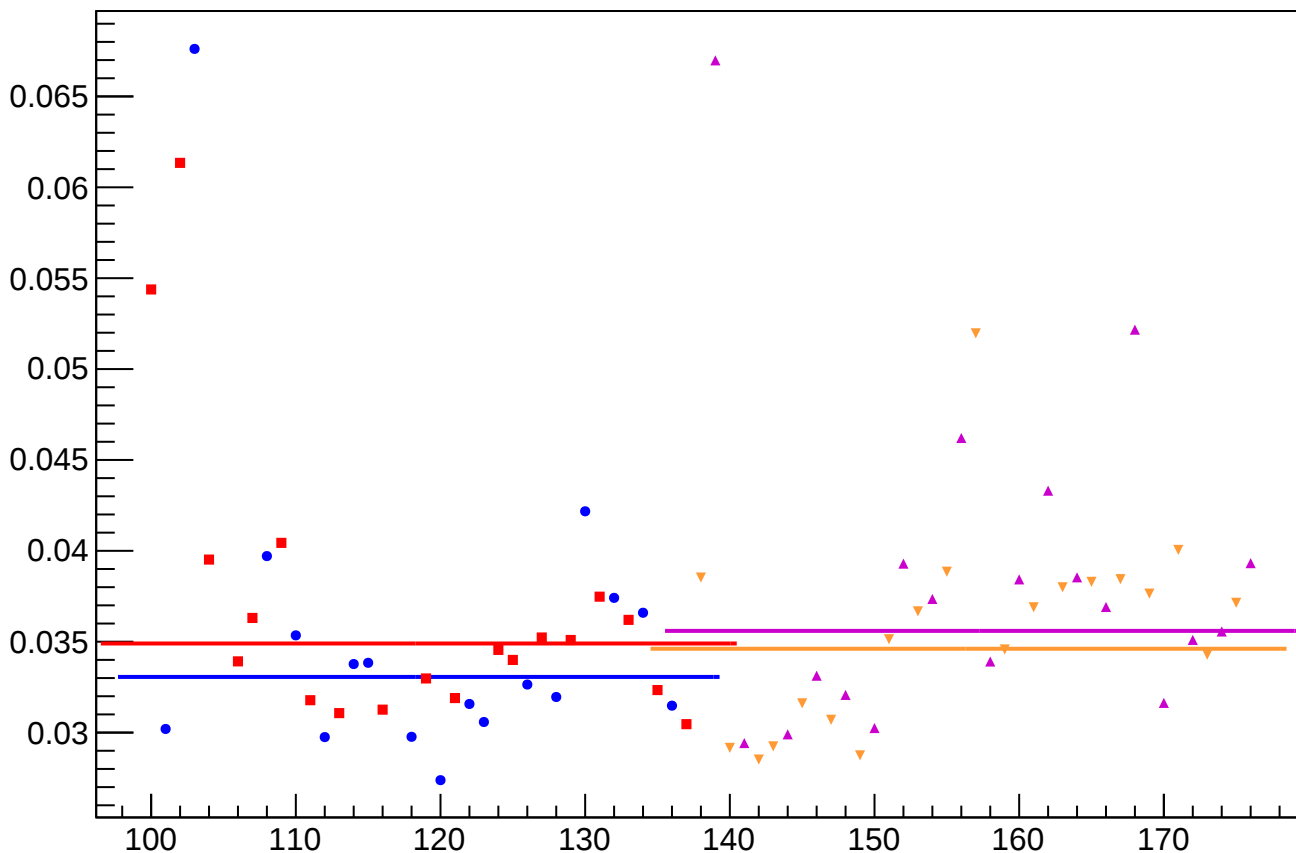
Right: -0.906+/-0.000 χ^2/NDF : 173111604.1/35

In: -1.231+/-0.000 χ^2/NDF : 1503333696.2/35

Out: -1.247+/-0.000 χ^2/NDF : 1639103262.4/38

All: -1.239+/-0.000 χ^2/NDF : 3144550478.5/77

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 409286.7/16

Left Out: 0.035+/-0.000 χ^2/NDF :455744.3/19

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.036+/-0.000 χ^2/NDF :820419.1/18

Left: 0.035+/-0.000 χ^2/NDF : 1286255.0/38

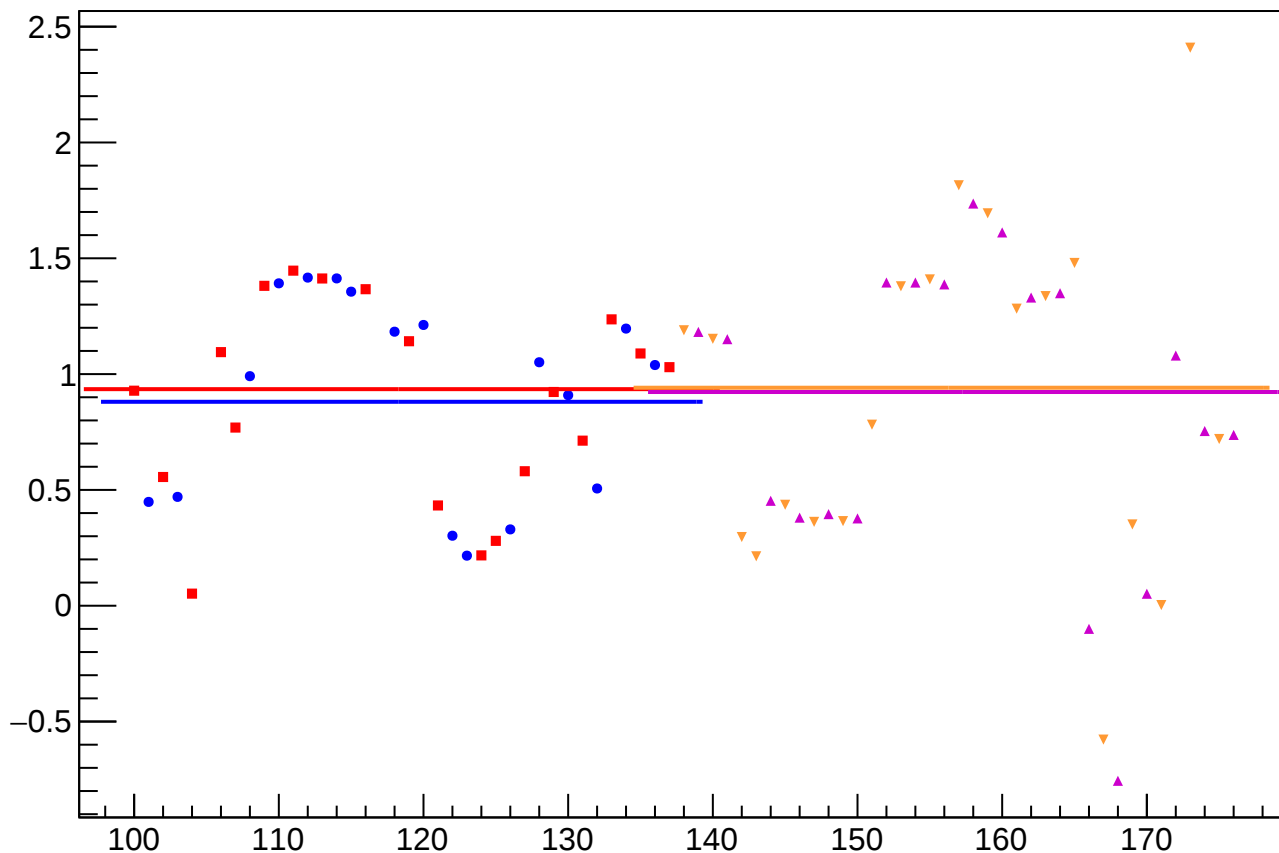
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF :1274692.5/35

Out: 0.035+/-0.000 χ^2/NDF :730592.2/38

All: 0.035+/-0.000 χ^2/NDF : 2005286.7/74

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000 χ^2 /NDF: 6400108121.4/16

Left Out: 0.941 $\pm$ 0.000 χ^2 /NDF: 82610868394.9/19

Right Out: 0.935 $\pm$ 0.000 χ^2 /NDF: 9833525935.6/18

Left In: 0.923 $\pm$ 0.000 χ^2 /NDF: 65817645586.8/18

Left: 0.932 $\pm$ 0.000 χ^2 /NDF: 148458332277.6/38

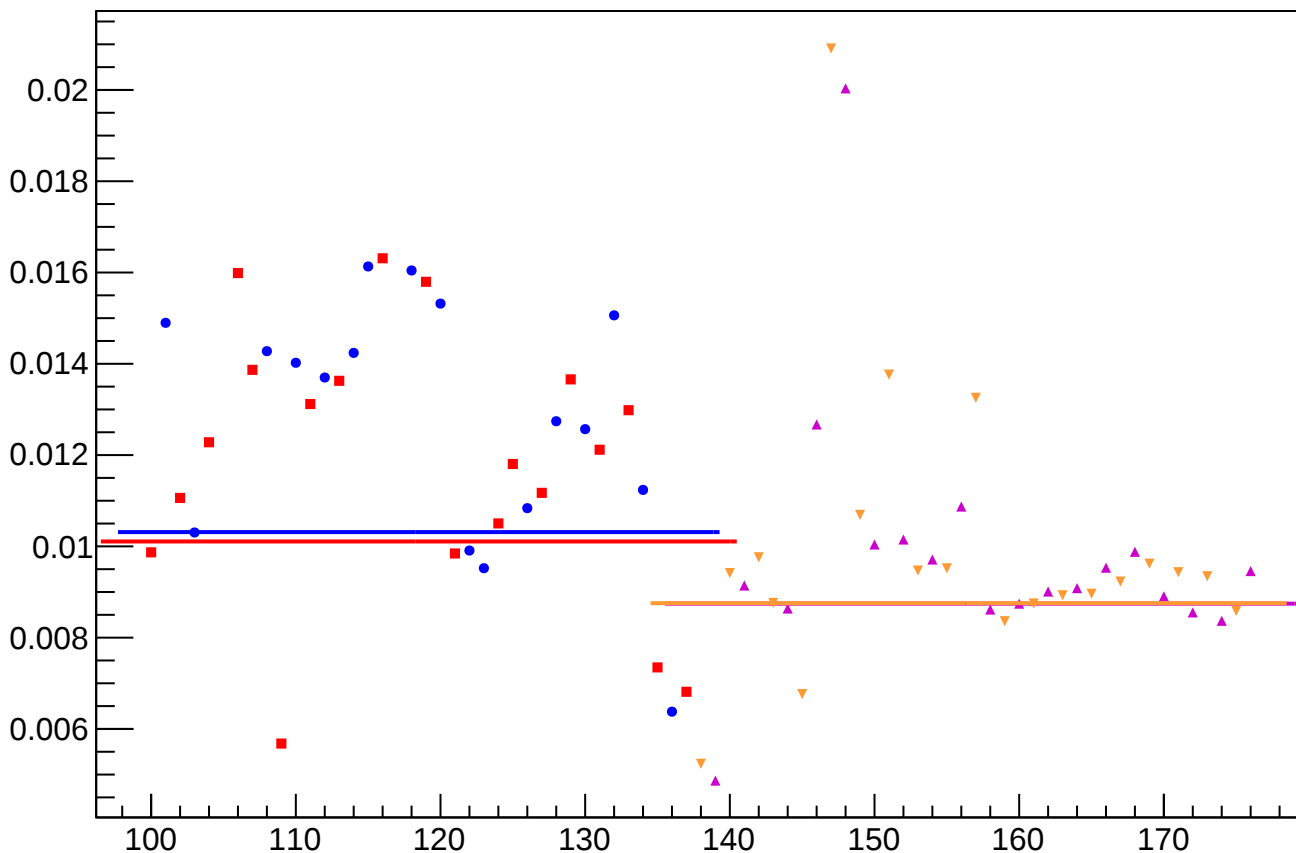
Right: 0.909 $\pm$ 0.000 χ^2 /NDF: 16315238009.2/35

In: 0.913 $\pm$ 0.000 χ^2 /NDF: 72289770307.5/35

Out: 0.940 $\pm$ 0.000 χ^2 /NDF: 92446053148.7/38

All: 0.927 $\pm$ 0.000 χ^2 /NDF: 164818723641.2

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 : 1694109.8/19

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 : 3297486.4/38

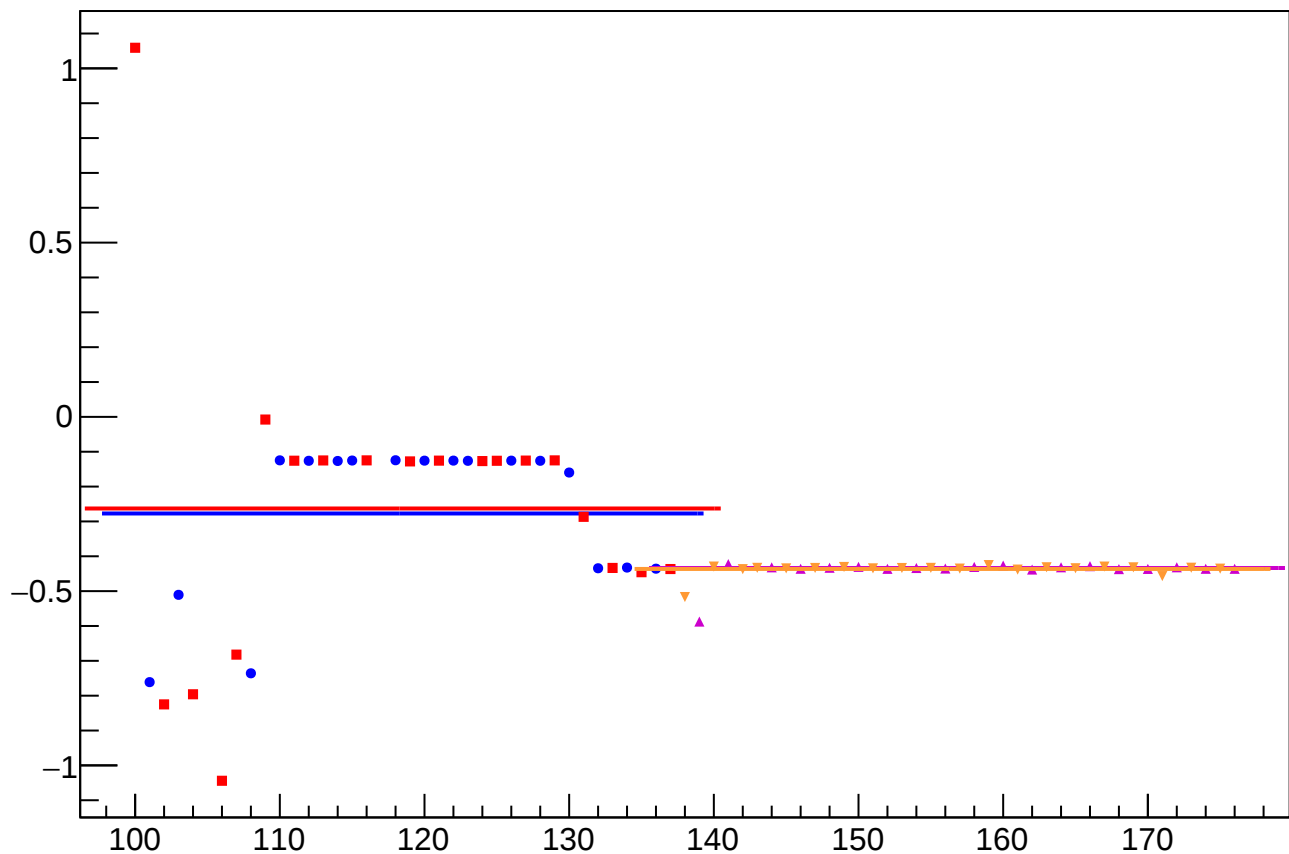
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF : 3032921.5/35

Out: 0.009+/-0.000 χ^2/NDF : 3030439.4/38

All: 0.009+/-0.000 χ^2/NDF : 6063524.4/74

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 : 28740422.7/19

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 : 52946783.7/38

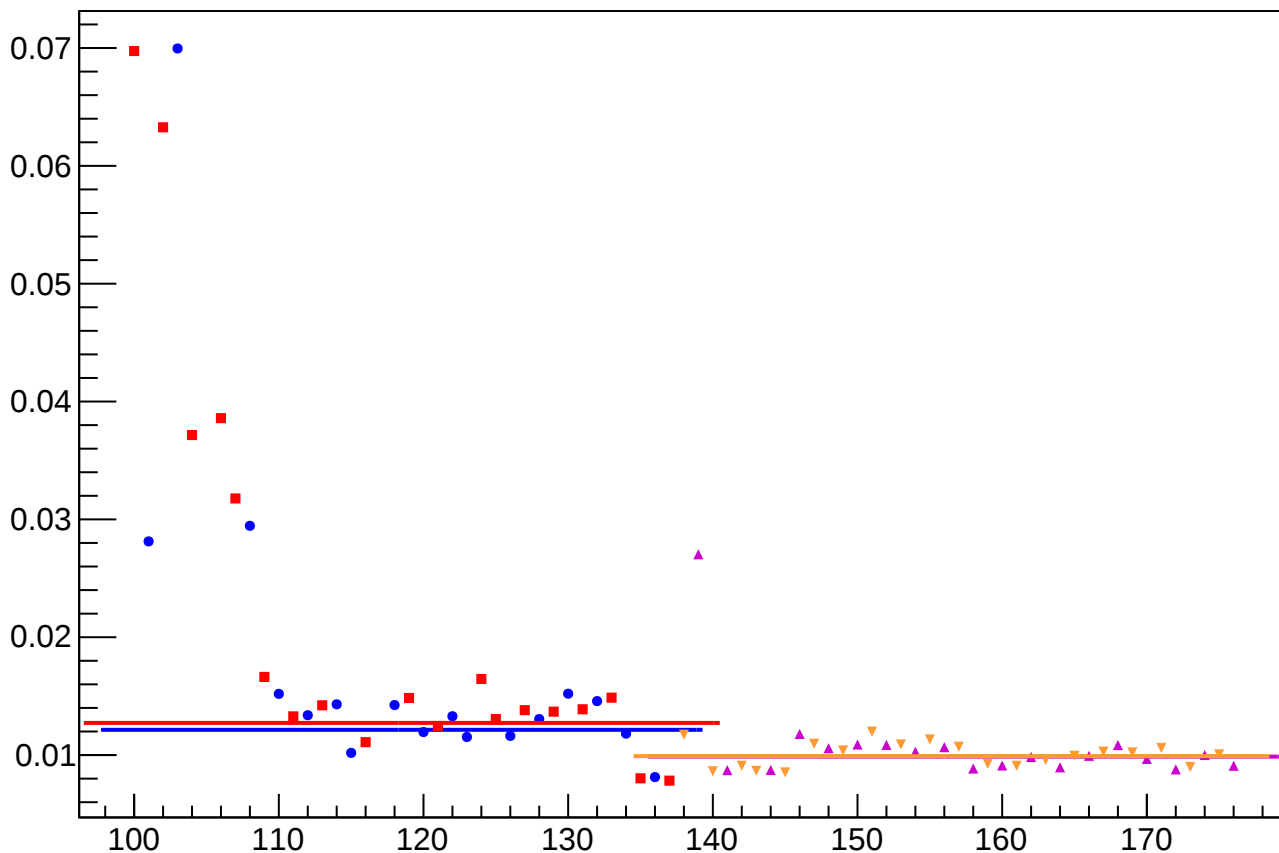
Right: -0.270 ± 0.000 χ^2/NDF : 1952121842.2/35

In: -0.402 ± 0.000 χ^2/NDF : 1587916790.9/35

Out: -0.404 ± 0.000 χ^2/NDF : 1766951265.8/38

All: -0.403 ± 0.000 χ^2/NDF : 3355101345.3/7

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1727494.7/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:246772.2/19

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: 981061.7/38

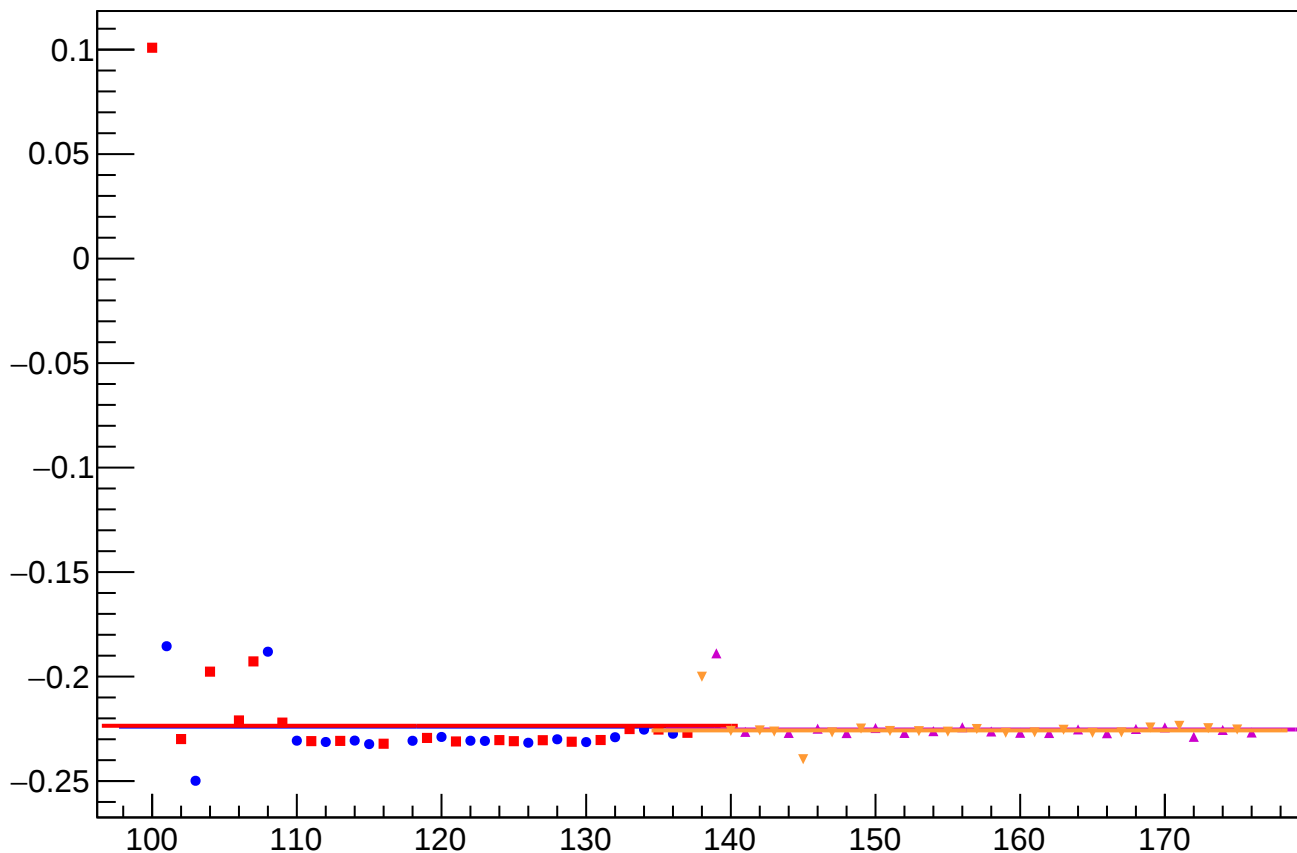
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2725773.9/35

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2602629.6/38

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5330335.3/74

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 : 20872004.0/19

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 : 35666727.4/38

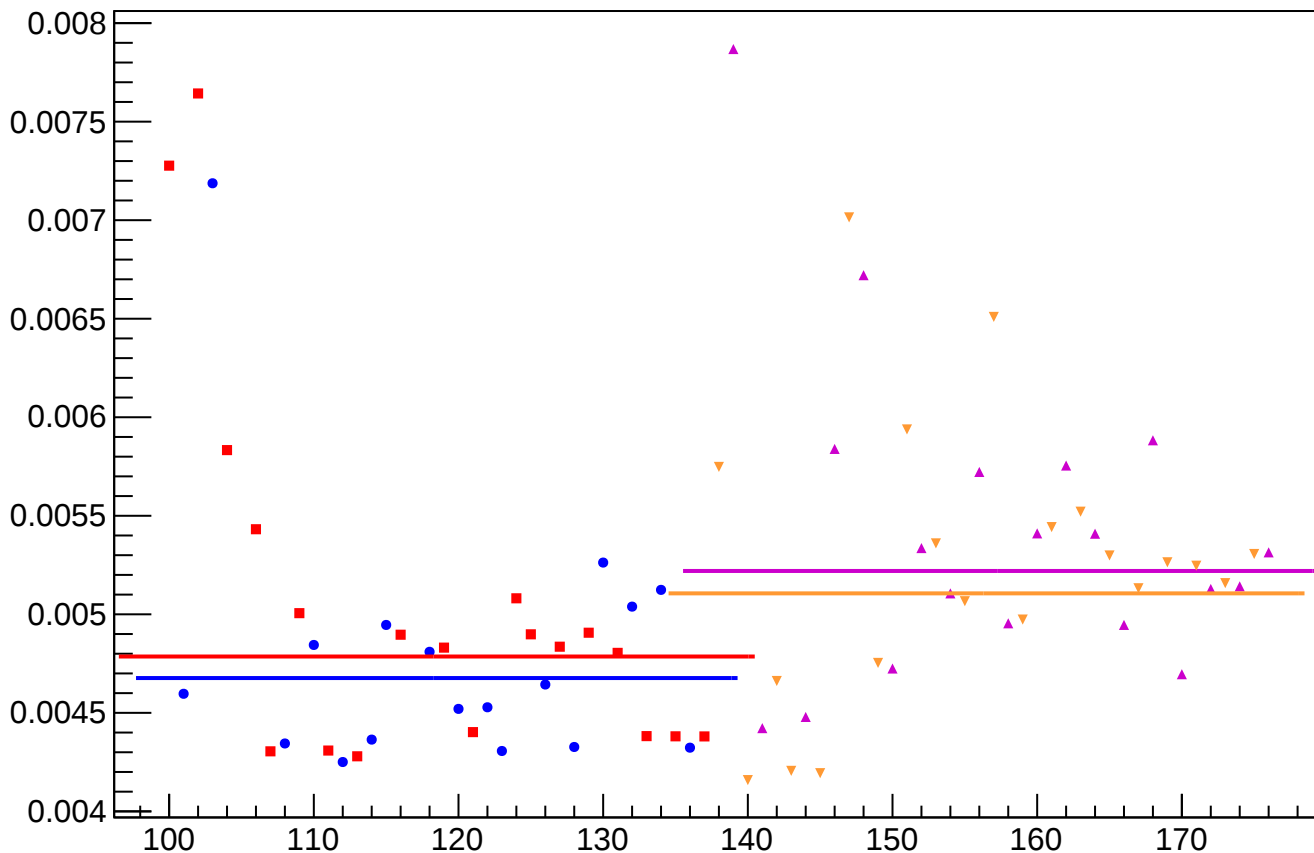
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89794709.1/35

Out: -0.225+/-0.000 χ^2/NDF : 189896169.7/38

All: -0.225+/-0.000 χ^2/NDF : 279700936.8/74

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 : 453698.2/19

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 : 887326.2/38

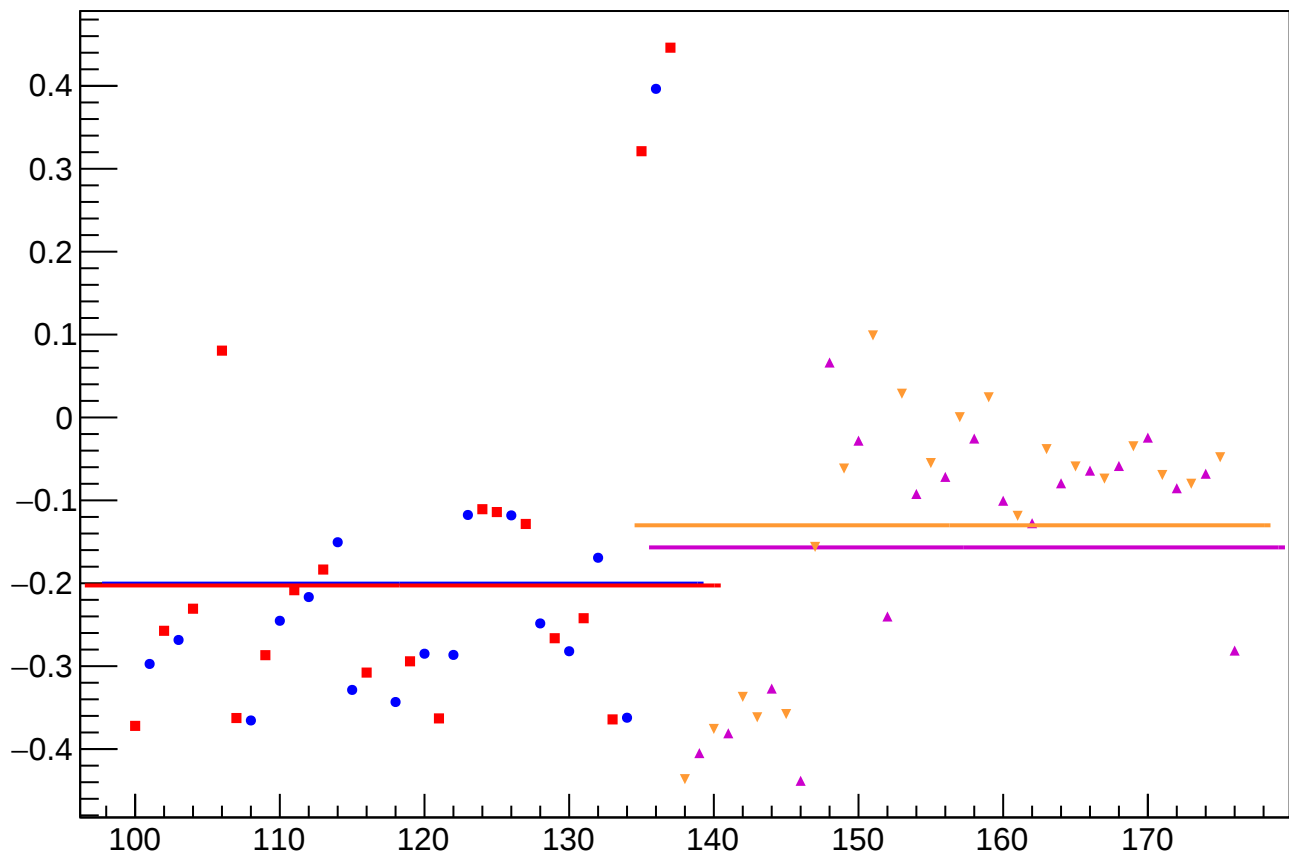
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 713550.7/35

Out: 0.005+/-0.000 χ^2/NDF : 739583.3/38

All: 0.005+/-0.000 χ^2/NDF : 1453893.4/74

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5973556486.0/16$

Left Out: -0.130 ± 0.000 $\chi^2/\text{NDF}: 11928546414.0/19$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5028268807.1/18$

Left In: -0.157 ± 0.000 $\chi^2/\text{NDF}: 9521391655.9/18$

Left: -0.143 ± 0.000 $\chi^2/\text{NDF}: 21620066139.8/38$

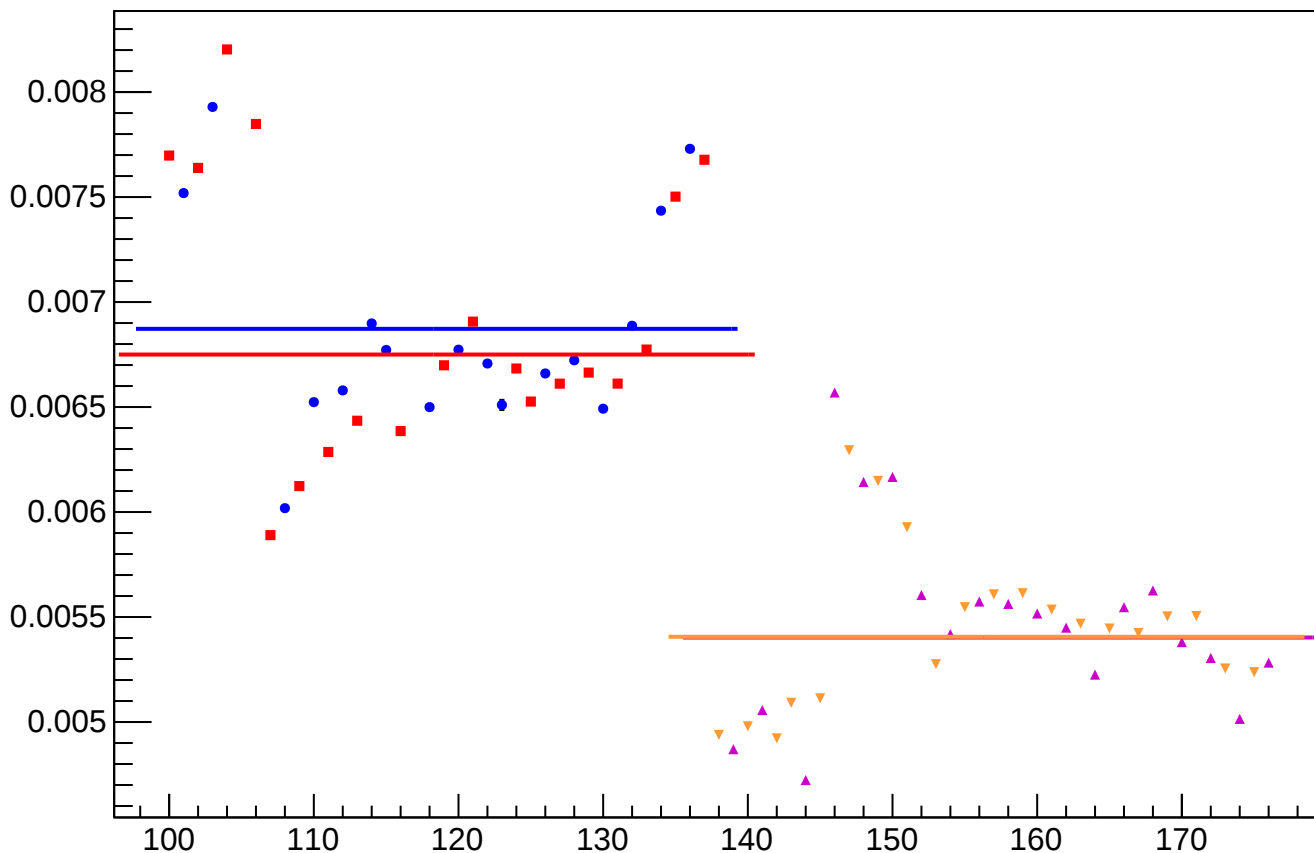
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 11002181720.9/35$

In: -0.167 ± 0.000 $\chi^2/\text{NDF}: 15699970729.4/35$

Out: -0.147 ± 0.000 $\chi^2/\text{NDF}: 17563095454.5/38$

All: -0.157 ± 0.000 $\chi^2/\text{NDF}: 33380169519.2/78$

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 :109547.4/19

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 : 269148.3/38

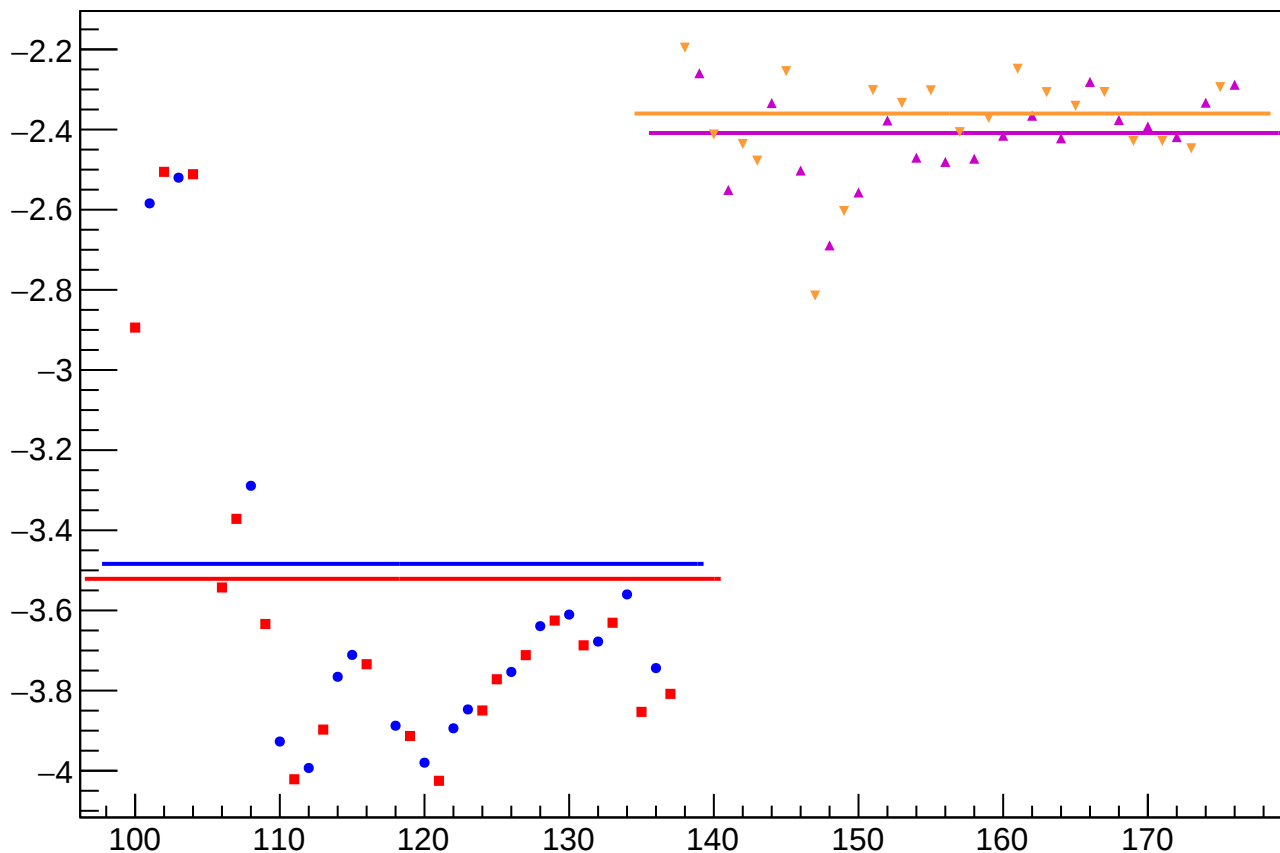
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :702230.7/35

Out: 0.006+/-0.000 χ^2/NDF :630481.1/38

All: 0.006+/-0.000 χ^2/NDF : 1332797.6/74

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.360+/-0.000 χ^2/NDF : 1926663755.6/19

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: -2.384+/-0.000 χ^2/NDF : 3526775220.2/38

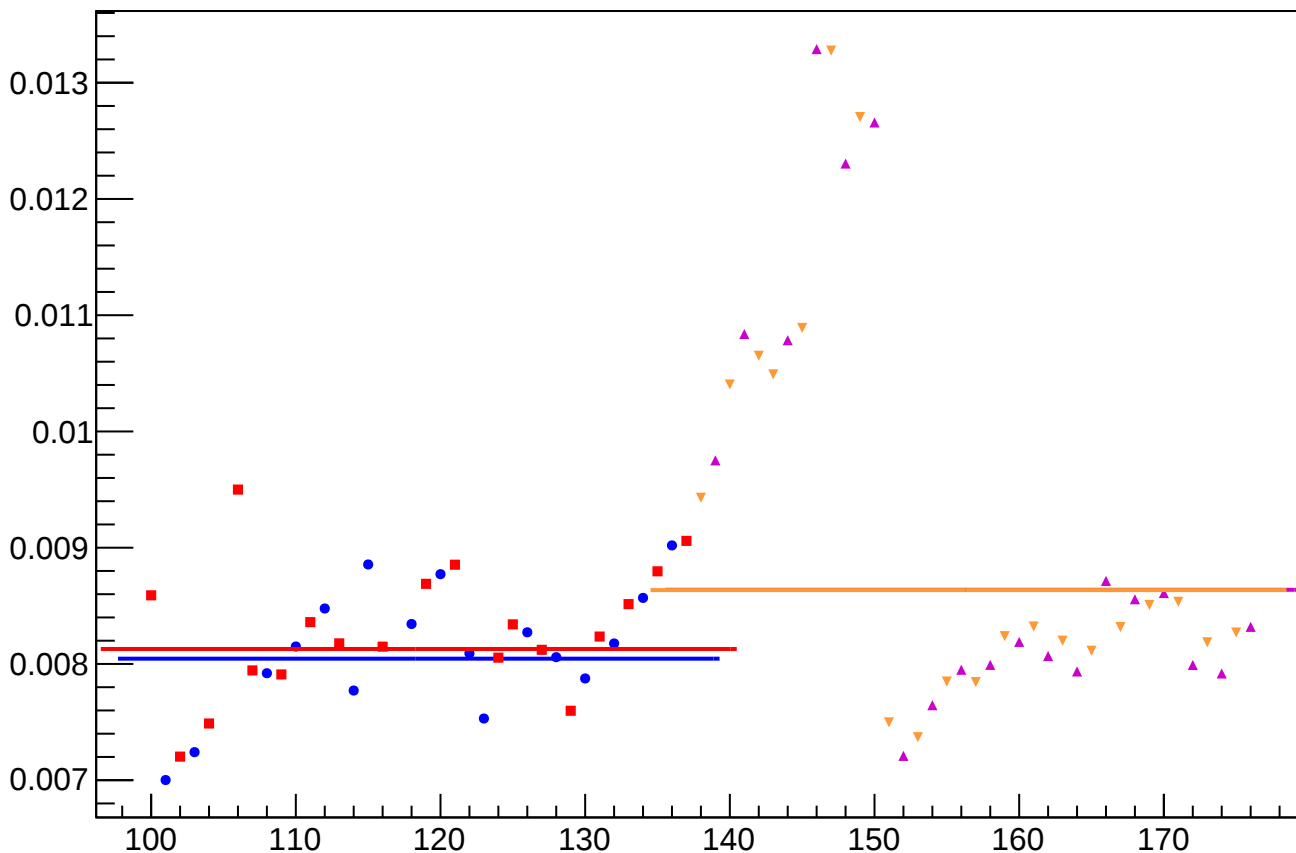
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.791+/-0.000 χ^2/NDF : 103439367489.0/35

Out: -2.772+/-0.000 χ^2/NDF : 117596317816.7/38

All: -2.781+/-0.000 χ^2/NDF : 221089069205.2

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 603110.2/19

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 : 1331637.7/38

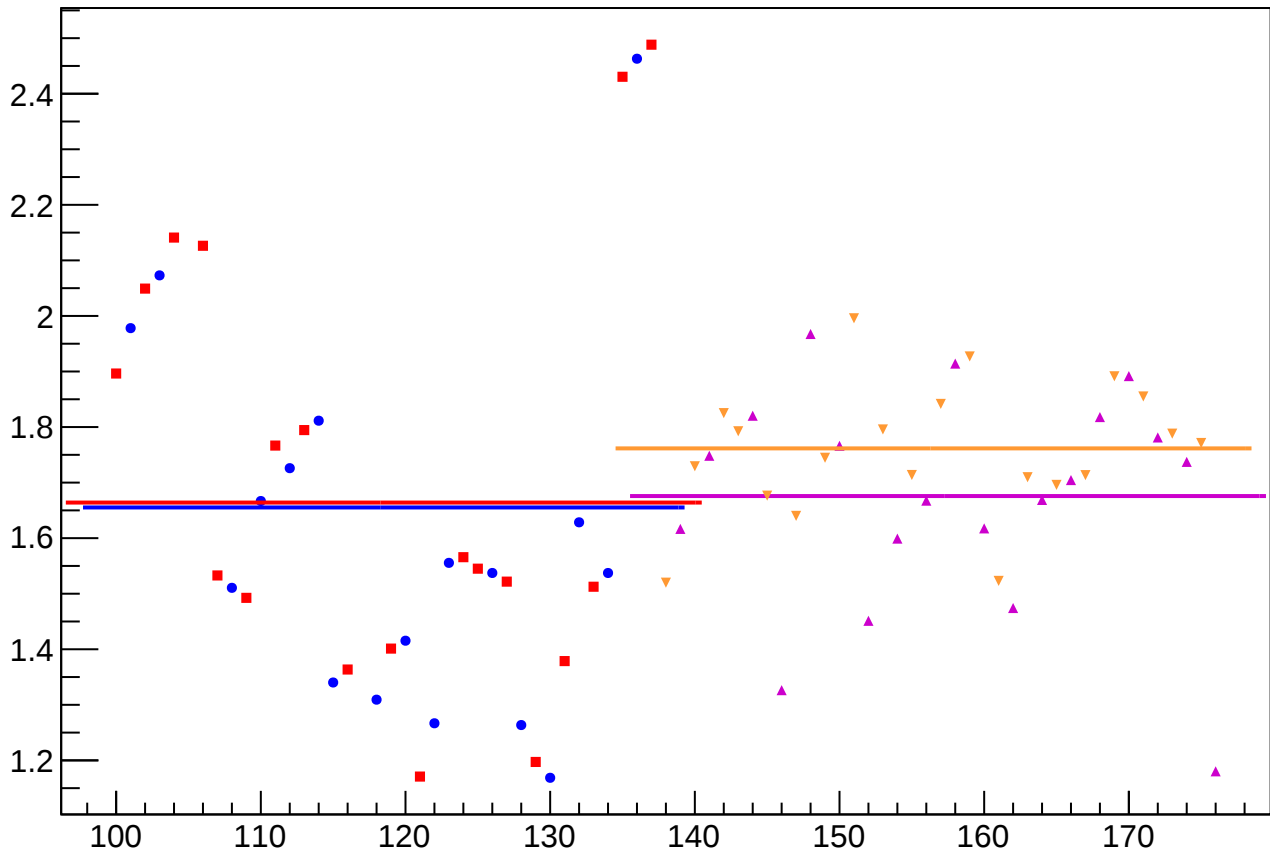
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 846010.5/35

Out: 0.008+/-0.000 χ^2/NDF : 694554.4/38

All: 0.008+/-0.000 χ^2/NDF : 1540798.3/74

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655+/-0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.762+/-0.000 χ^2/NDF :1758937454.0/19

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: 1.719+/-0.000 χ^2/NDF : 7024152996.4/38

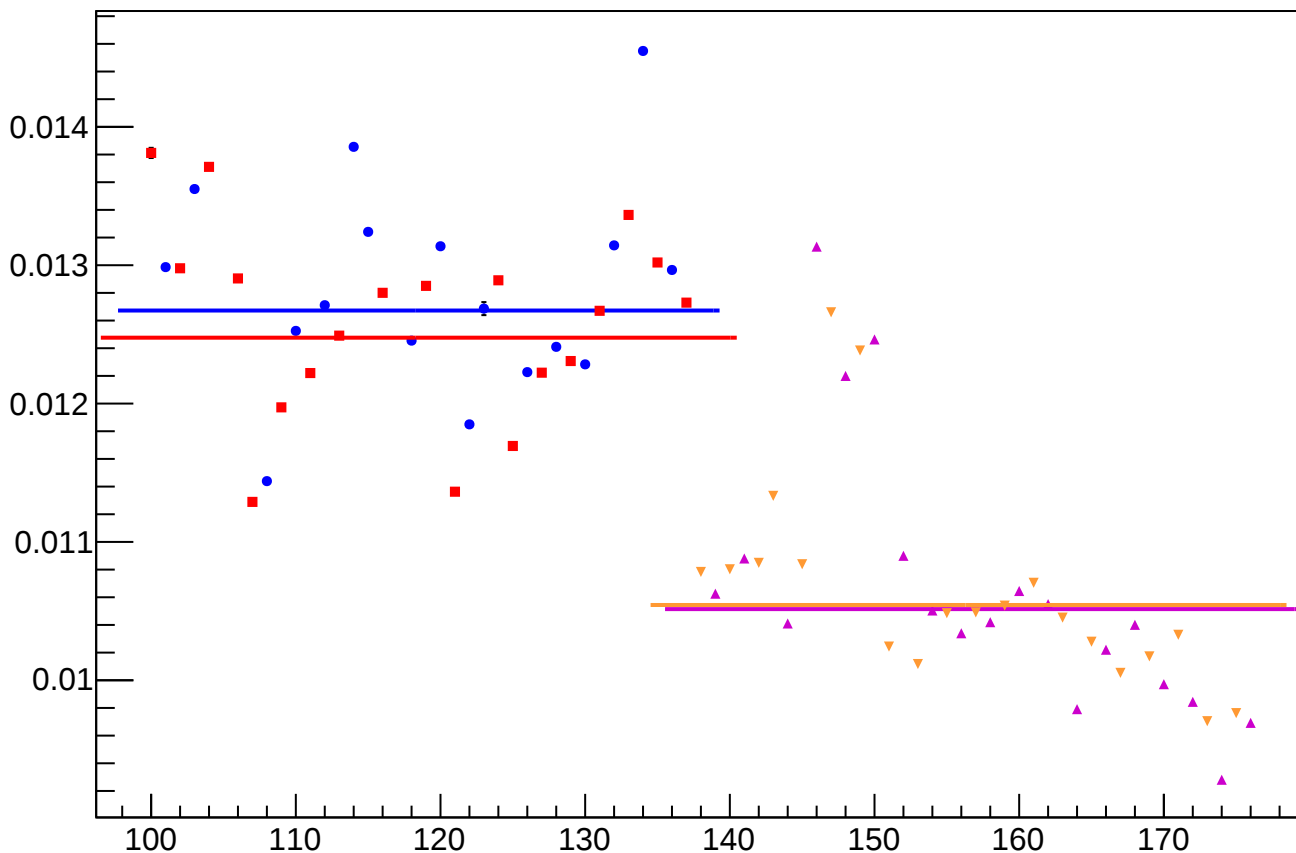
Right: 1.660+/-0.000 χ^2/NDF : 12422392259.9/35

In: 1.671+/-0.000 χ^2/NDF :11284383005.5/35

Out: 1.737+/-0.000 χ^2/NDF :8016586880.9/38

All: 1.704+/-0.000 χ^2/NDF : 19671375315.6/71

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :115746.7/19

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 : 297526.8/38

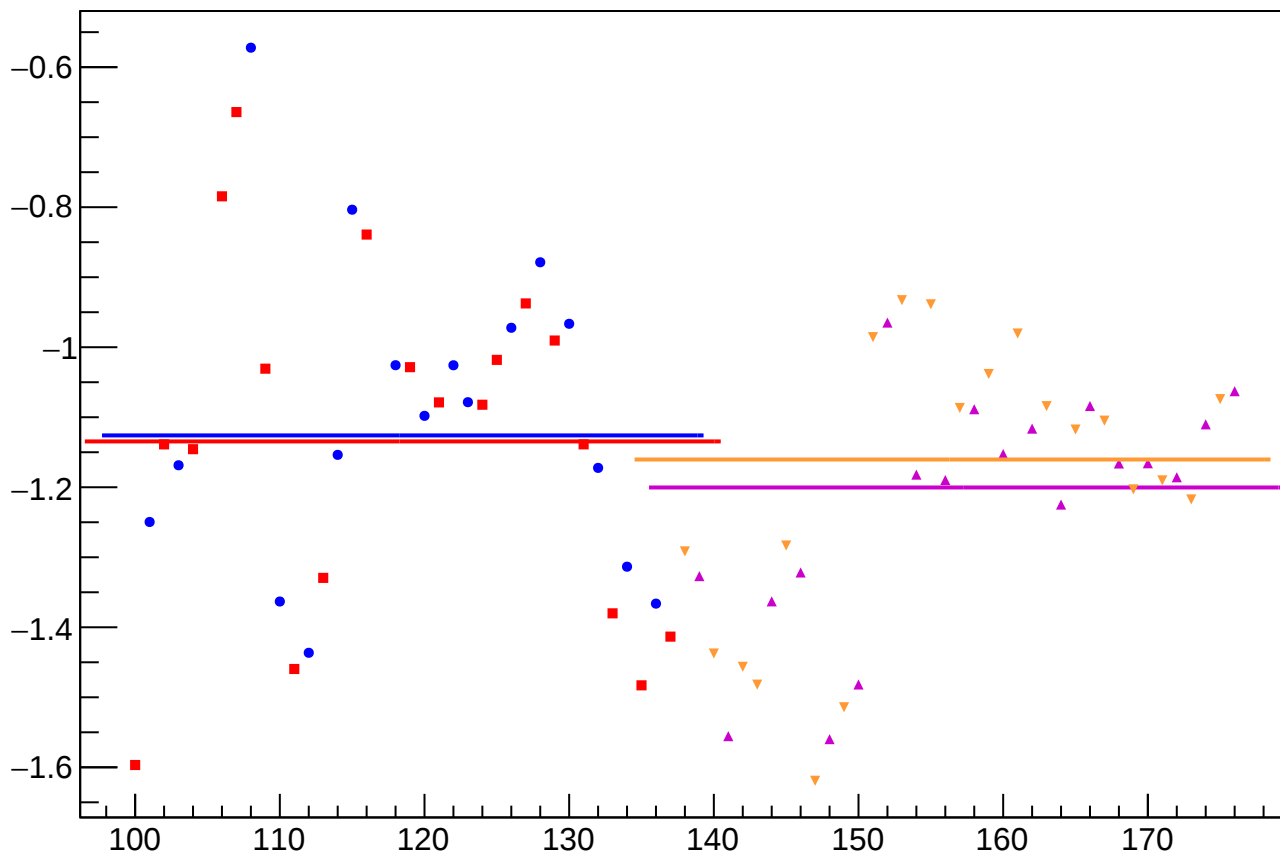
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :500999.2/35

Out: 0.011+/-0.000 χ^2/NDF :400984.1/38

All: 0.011+/-0.000 χ^2/NDF : 901987.5/74

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126 ± 0.000 $\chi^2/\text{NDF}: 3574776639.2/16$

Left Out: -1.160 ± 0.000 $\chi^2/\text{NDF}: 7292231684.8/19$

Right Out: -1.135 ± 0.000 $\chi^2/\text{NDF}: 3677461023.4/18$

Left In: -1.200 ± 0.000 $\chi^2/\text{NDF}: 4986969150.3/18$

Left: -1.180 ± 0.000 $\chi^2/\text{NDF}: 12457302639.6/38$

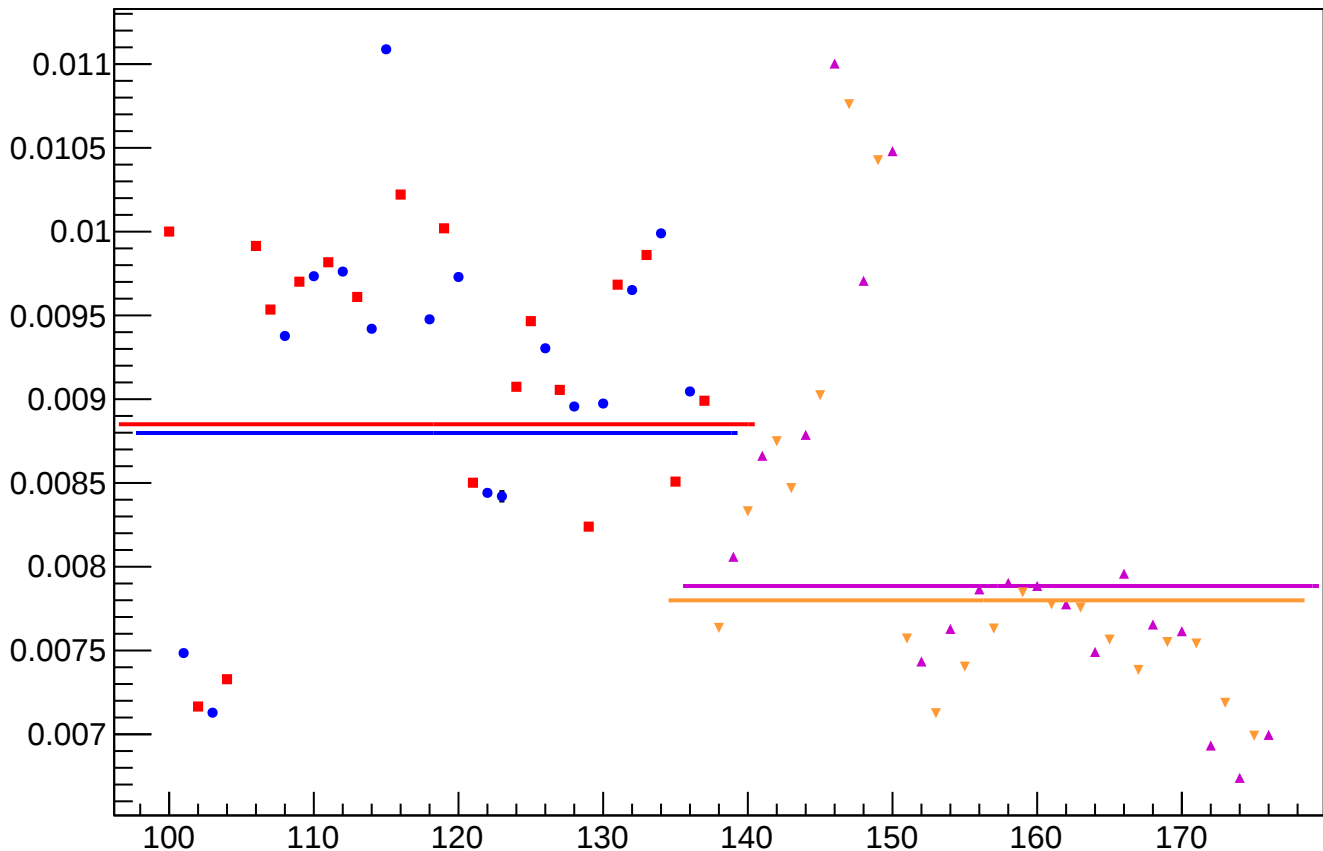
Right: -1.130 ± 0.000 $\chi^2/\text{NDF}: 7255318739.1/35$

In: -1.180 ± 0.000 $\chi^2/\text{NDF}: 8892859740.2/35$

Out: -1.153 ± 0.000 $\chi^2/\text{NDF}: 11010797067.7/38$

All: -1.166 ± 0.000 $\chi^2/\text{NDF}: 20012128410.1/77$

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 : 288837.7/19

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 : 663700.6/38

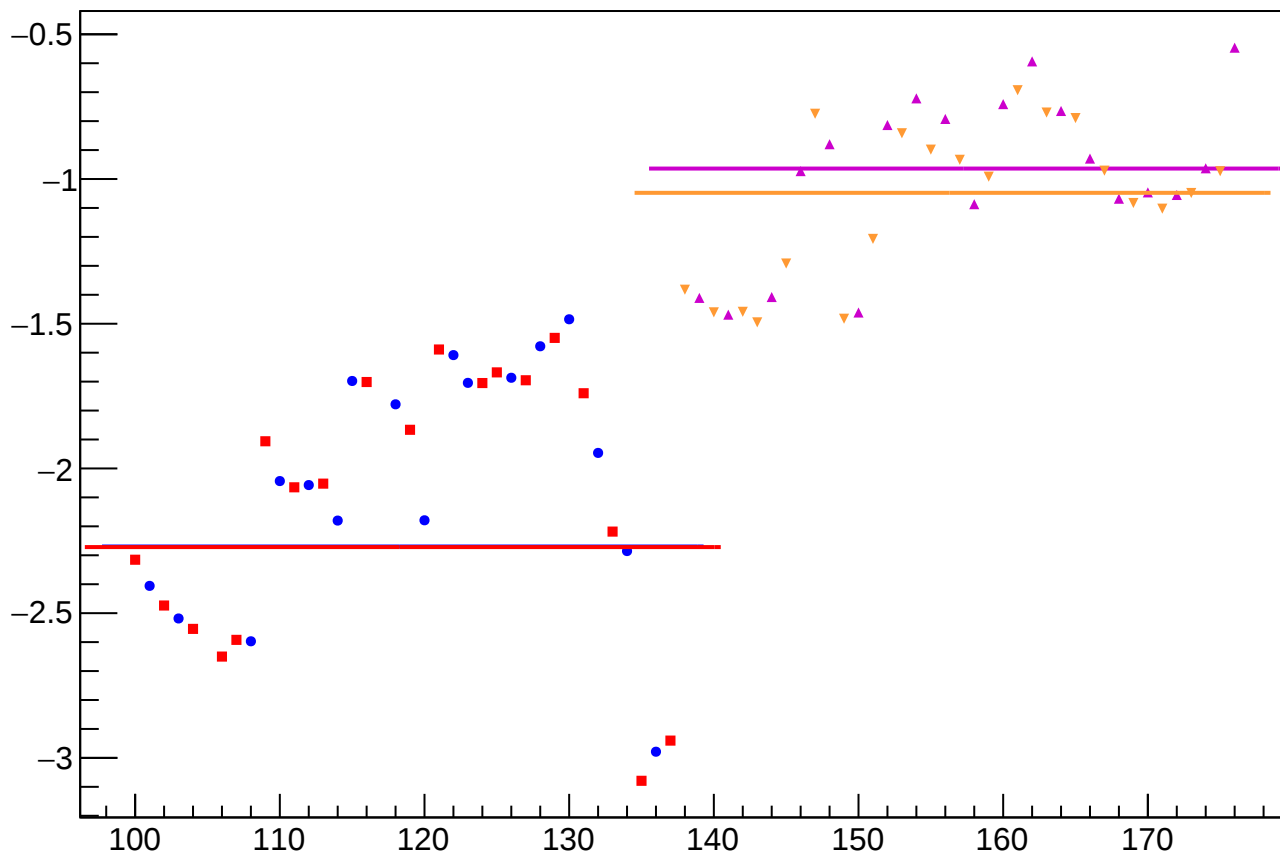
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF : 624599.8/35

Out: 0.008+/-0.000 χ^2/NDF : 598888.0/38

All: 0.008+/-0.000 χ^2/NDF : 1224284.0/74

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000

χ^2/NDF : 17408567065.9/16

Left: -1.006+/-0.000

χ^2/NDF : 41985545328.2/38

Right: -2.271+/-0.000

χ^2/NDF : 36418070927.0/35

Left Out: -1.048+/-0.000

χ^2/NDF : 17776282533.0/19

In: -1.225+/-0.000

χ^2/NDF : 160534839364.3/35

Right Out: -2.272+/-0.000

χ^2/NDF : 19009331715.4/18

Out: -1.320+/-0.000

χ^2/NDF : 152799966508.4/38

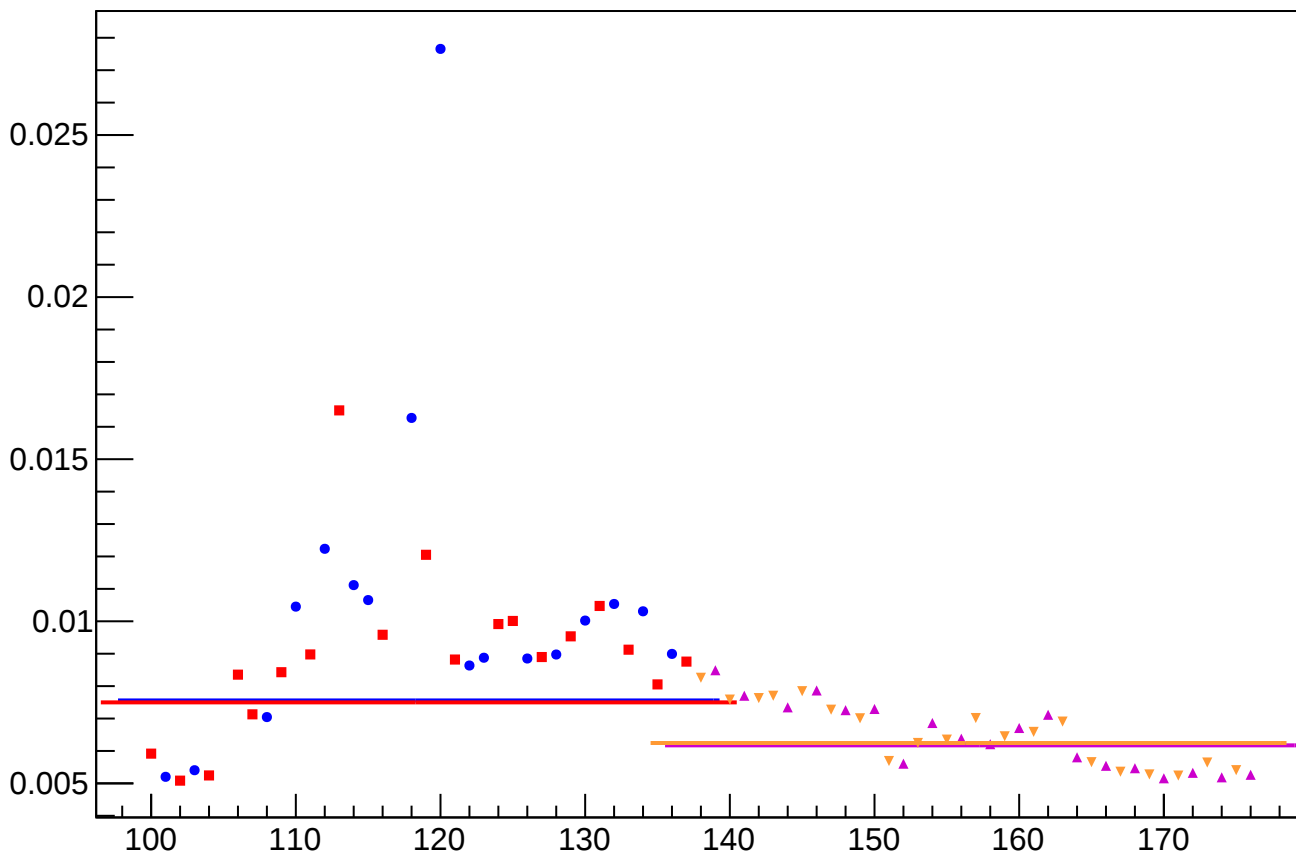
Left In: -0.964+/-0.000

χ^2/NDF : 22978486757.4/18

All: -1.273+/-0.000

χ^2/NDF : 315319416758.1

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 :560819.0/19

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 : 1202290.7/38

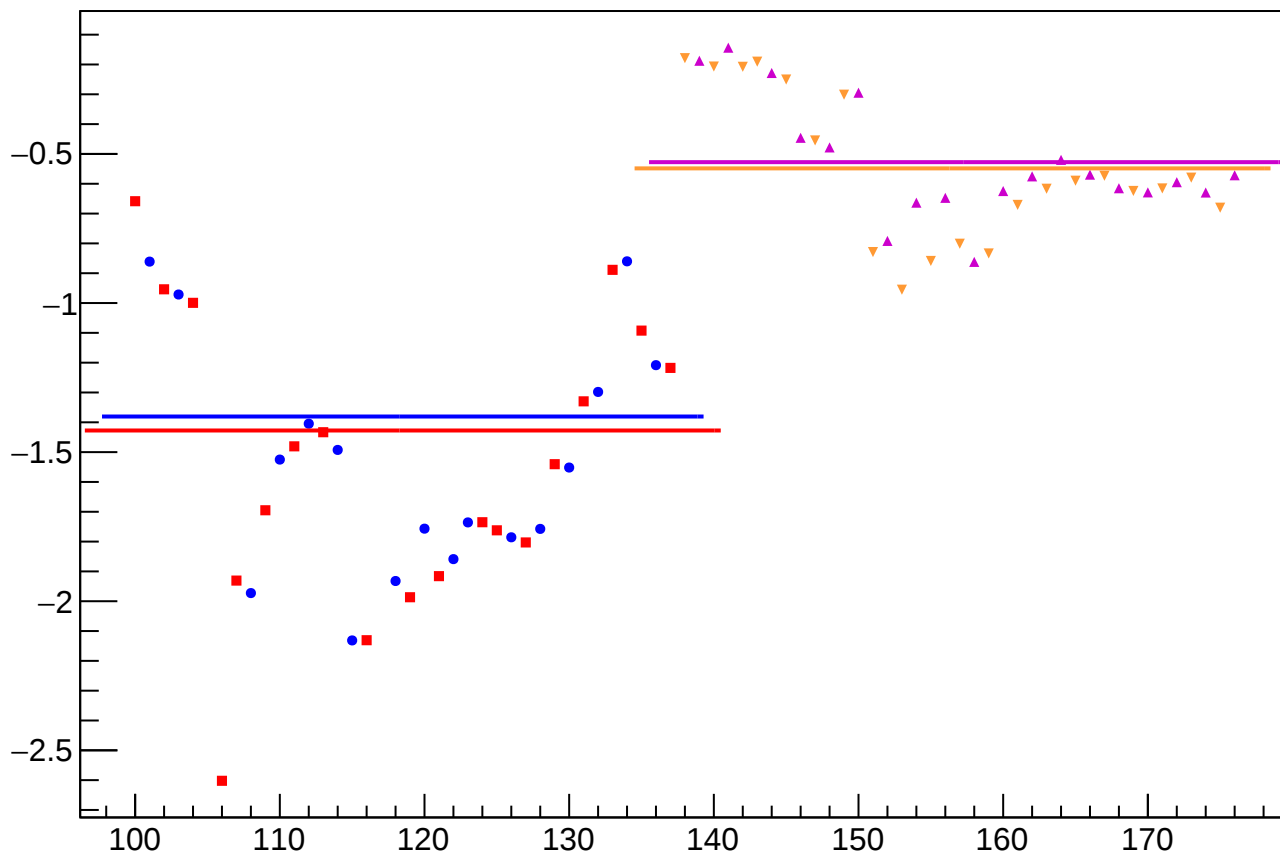
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.006+/-0.000 χ^2/NDF :2131009.2/35

Out: 0.007+/-0.000 χ^2/NDF :1737983.0/38

All: 0.006+/-0.000 χ^2/NDF : 3871408.6/74

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000 χ^2/NDF : 20001018652.5/16

Left Out: -0.548+/-0.000 χ^2/NDF : 46175563640.1/19

Right Out: -1.427+/-0.000 χ^2/NDF : 29616178528.0/18

Left In: -0.528+/-0.000 χ^2/NDF : 30479847896.5/18

Left: -0.538+/-0.000 χ^2/NDF : 76830844442.1/38

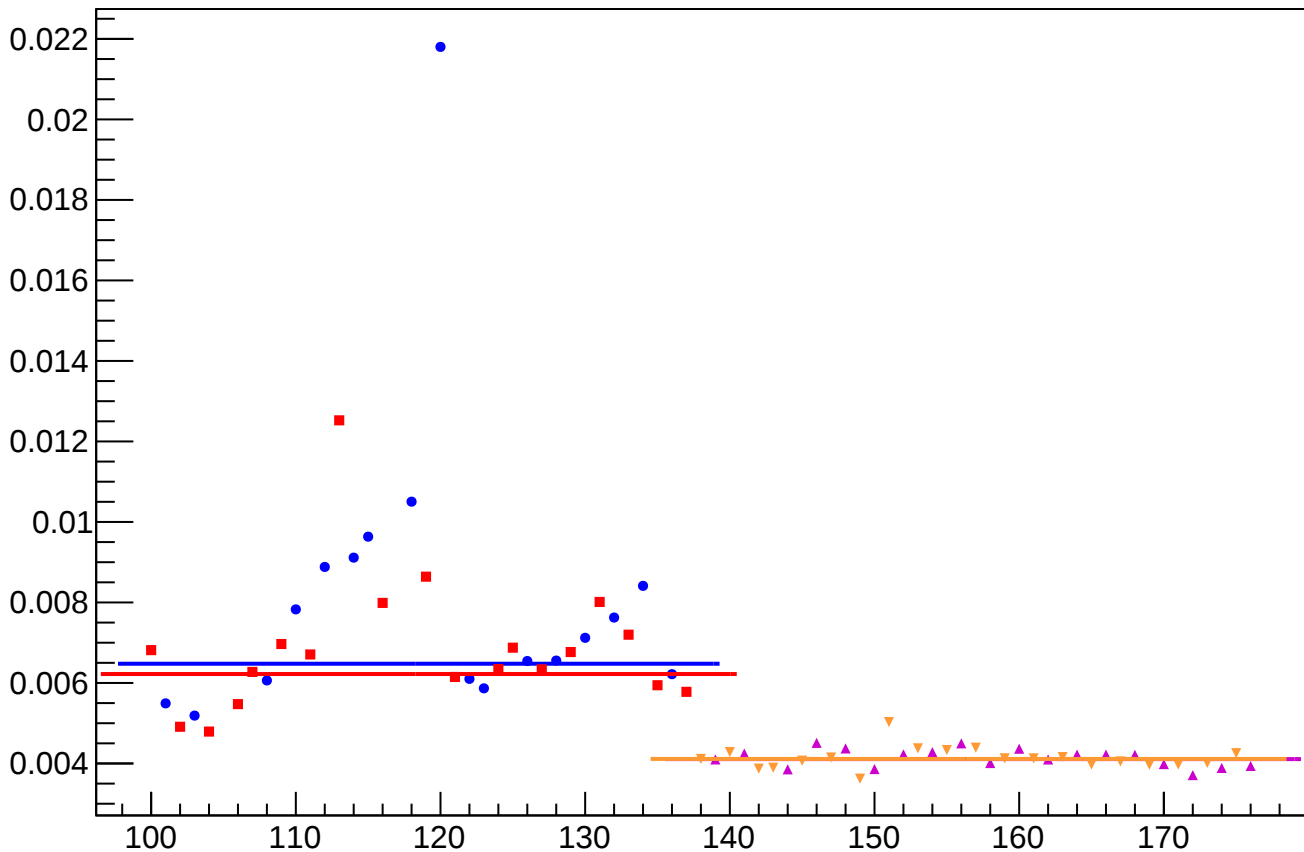
Right: -1.406+/-0.000 χ^2/NDF : 49770978716.8/35

In: -0.647+/-0.000 χ^2/NDF : 131730210303.6/35

Out: -0.687+/-0.000 χ^2/NDF : 174605349533.8/38

All: -0.668+/-0.000 χ^2/NDF : 307110289840.3

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 : 96959.2/19

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 : 174683.0/38

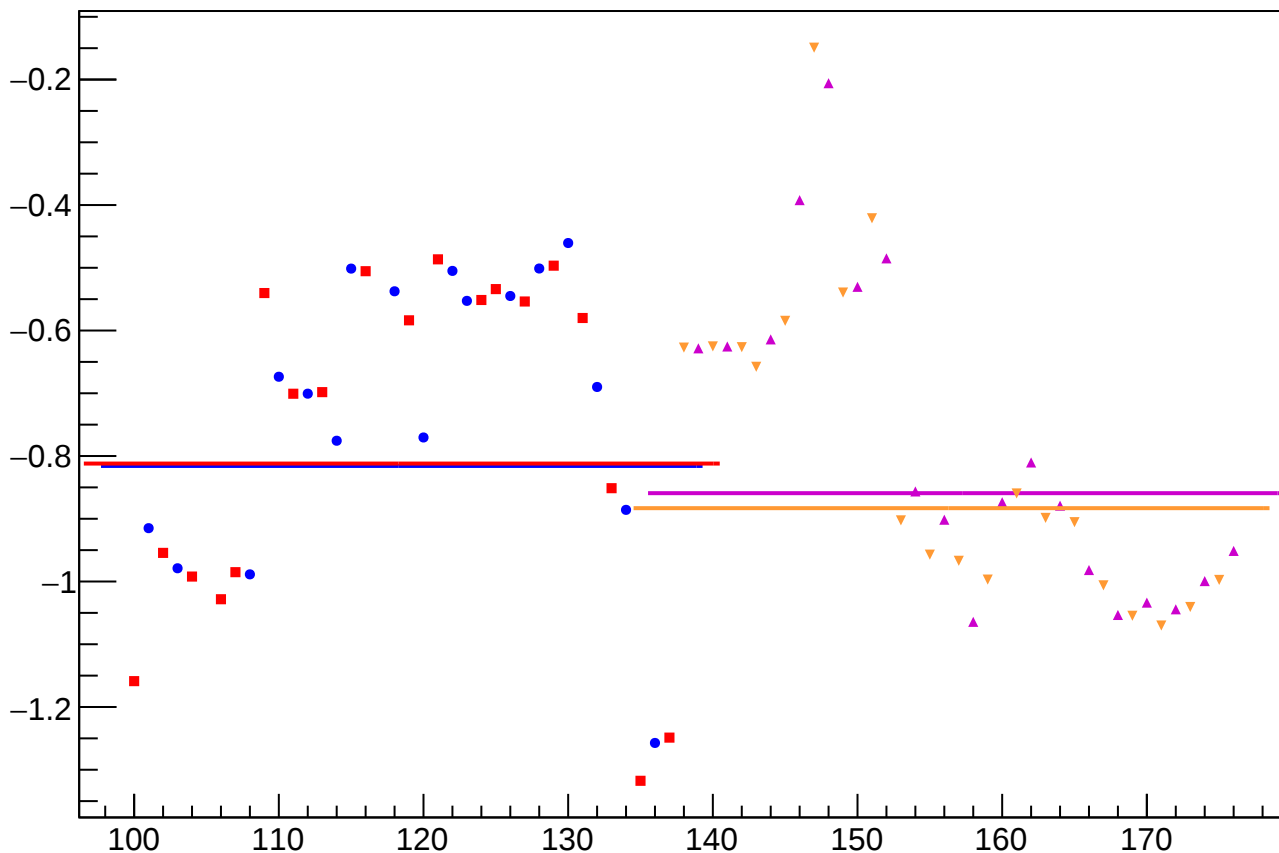
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.004+/-0.000 χ^2/NDF : 1903801.1/35

Out: 0.004+/-0.000 χ^2/NDF : 1658571.2/38

All: 0.004+/-0.000 χ^2/NDF : 3562406.9/74

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816+/-0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.883+/-0.000 χ^2/NDF : 39925763359.7/19

Right Out: -0.812+/-0.000 χ^2/NDF : 16815852448.9/18

Left In: -0.859+/-0.000 χ^2/NDF : 43364102016.9/18

Left: -0.871+/-0.000 χ^2/NDF : 83555121499.6/38

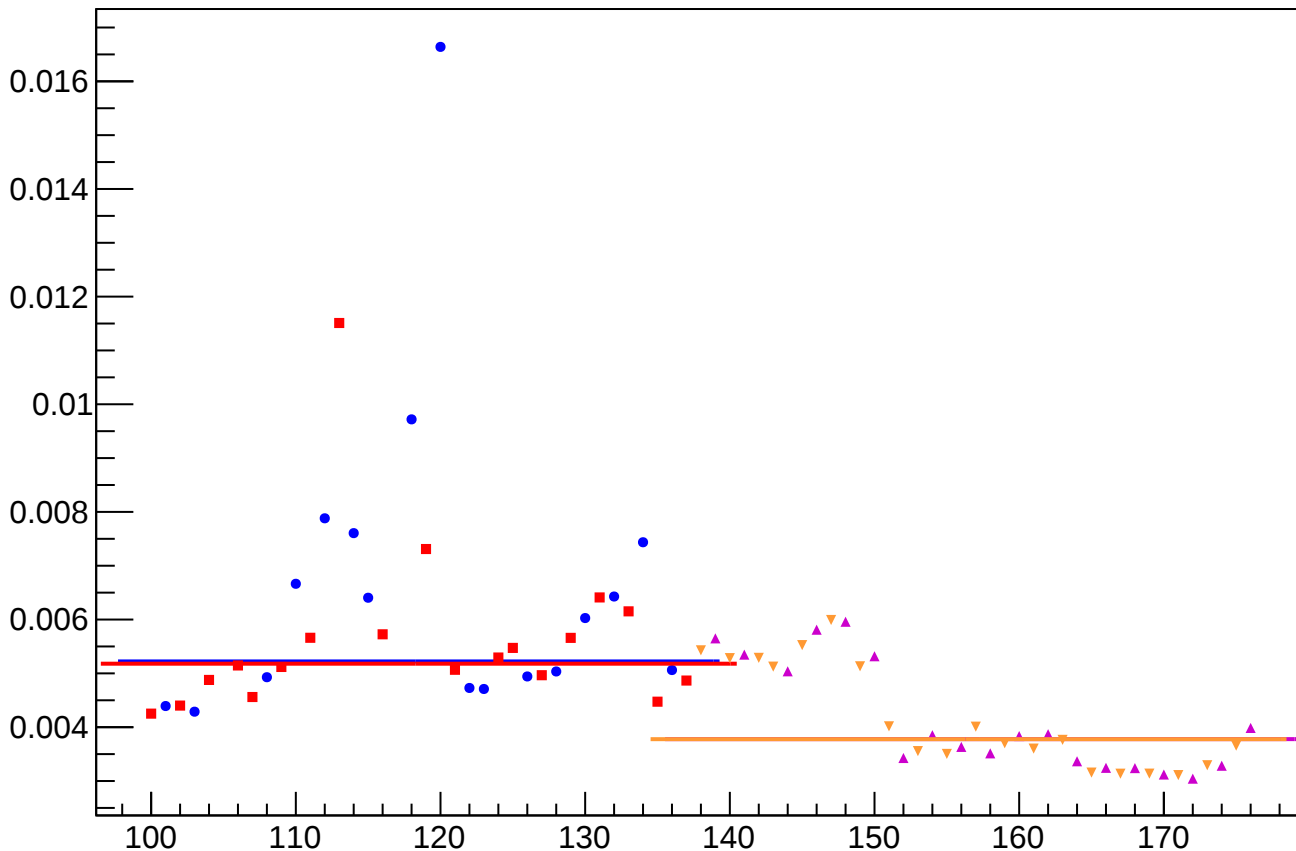
Right: -0.814+/-0.000 χ^2/NDF : 30990213454.0/35

In: -0.852+/-0.000 χ^2/NDF : 57841586143.8/35

Out: -0.869+/-0.000 χ^2/NDF : 57645774469.4/38

All: -0.861+/-0.000 χ^2/NDF : 115669267197.0

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 :1124610.3/19

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 : 2312274.7/38

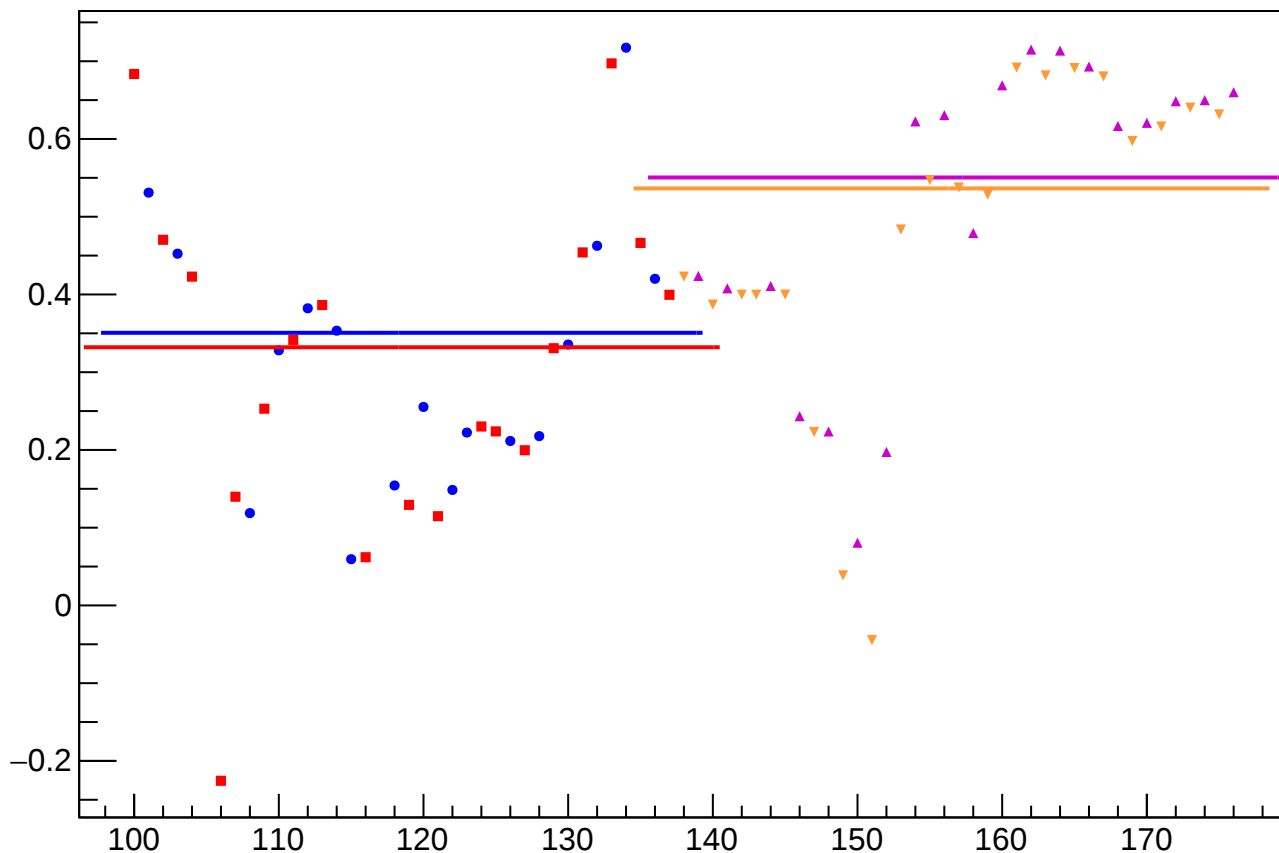
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2525584.8/35

Out: 0.004+/-0.000 χ^2/NDF :2192181.1/38

All: 0.004+/-0.000 χ^2/NDF : 4718019.7/74

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.543+/-0.000

χ^2/NDF : 79744777341.7/38

Left Out: 0.536+/-0.000

χ^2/NDF : 40581491919.7/19

Right: 0.341+/-0.000

χ^2/NDF : 19270918435.8/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11796213425.9/18

In: 0.509+/-0.000

χ^2/NDF : 57383533278.4/35

Out: 0.489+/-0.000

χ^2/NDF : 65009599268.3/38

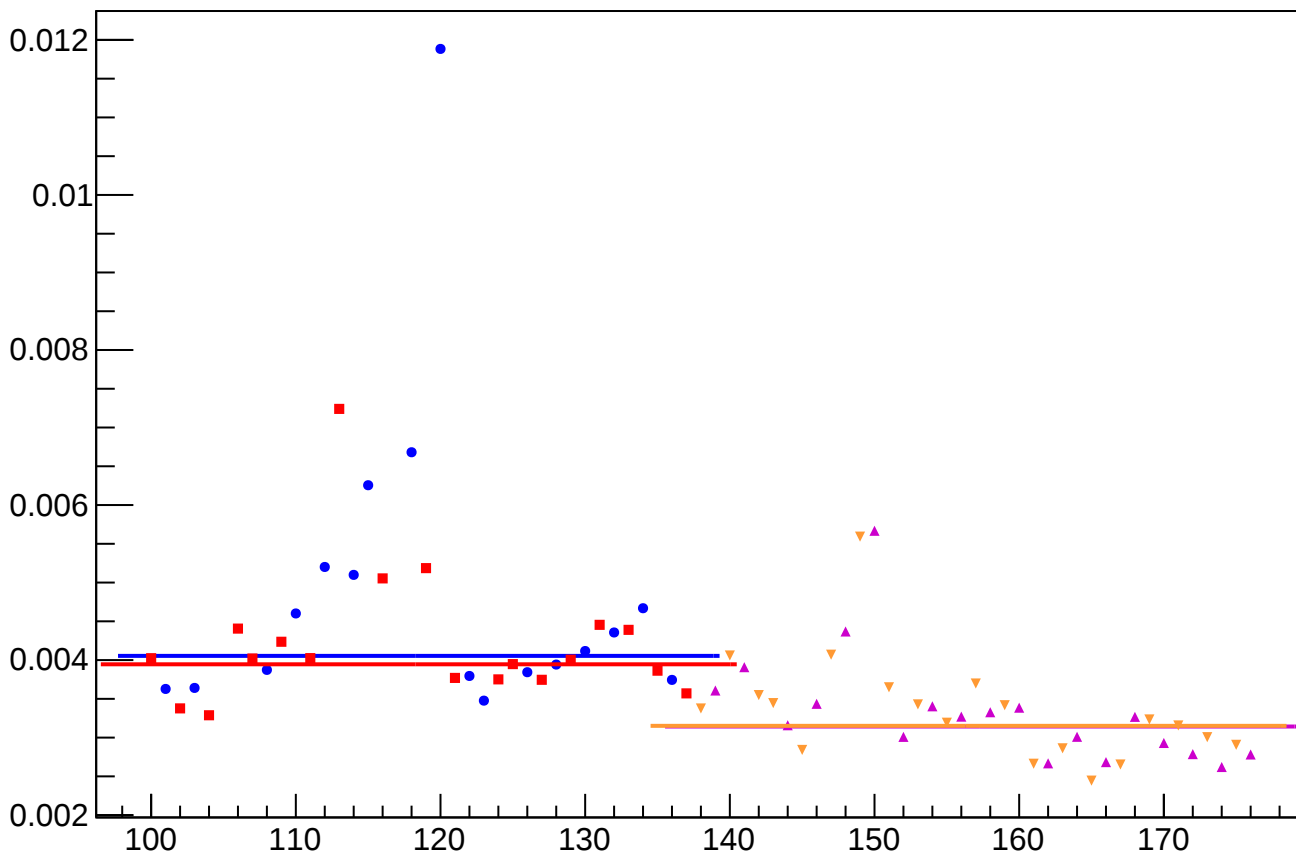
Left In: 0.550+/-0.000

χ^2/NDF : 39033459950.4/18

All: 0.499+/-0.000

χ^2/NDF : 122707101994.8

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.003+/-0.000 χ^2/NDF : 725286.3/19

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 708619.4/18

Left: 0.003+/-0.000 χ^2/NDF : 1434006.9/38

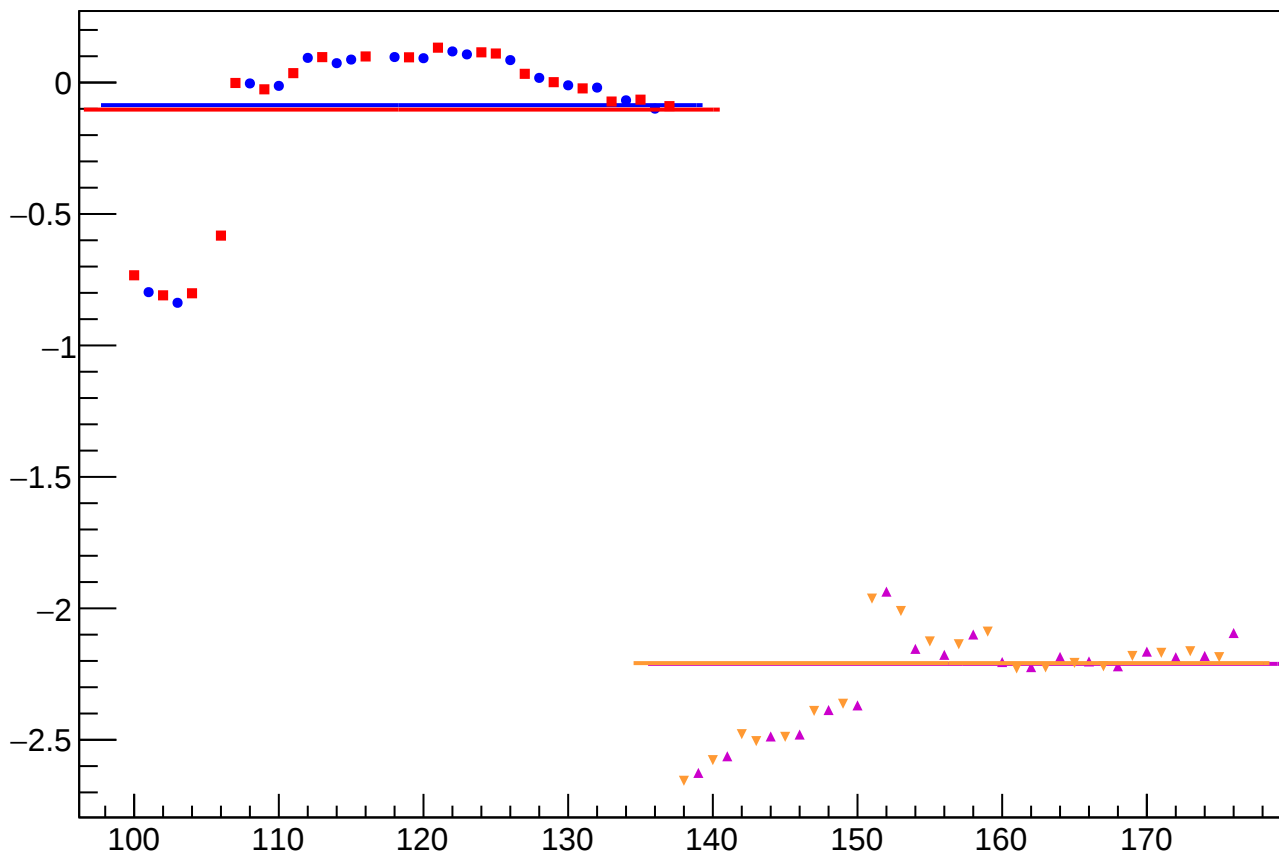
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1619186.0/35

Out: 0.003+/-0.000 χ^2/NDF : 1367639.1/38

All: 0.003+/-0.000 χ^2/NDF : 2986826.6/74

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086 $\pm$ 0.000 χ^2 /NDF: 4989387592.7/16

Left Out: -2.208 $\pm$ 0.000 χ^2 /NDF: 3470218836.0/19

Right Out: -0.103 $\pm$ 0.000 χ^2 /NDF: 5553039516.7/18

Left In: -2.211 $\pm$ 0.000 χ^2 /NDF: 2895498307.2/18

Left: -2.210 $\pm$ 0.000 χ^2 /NDF: 6366244602.6/38

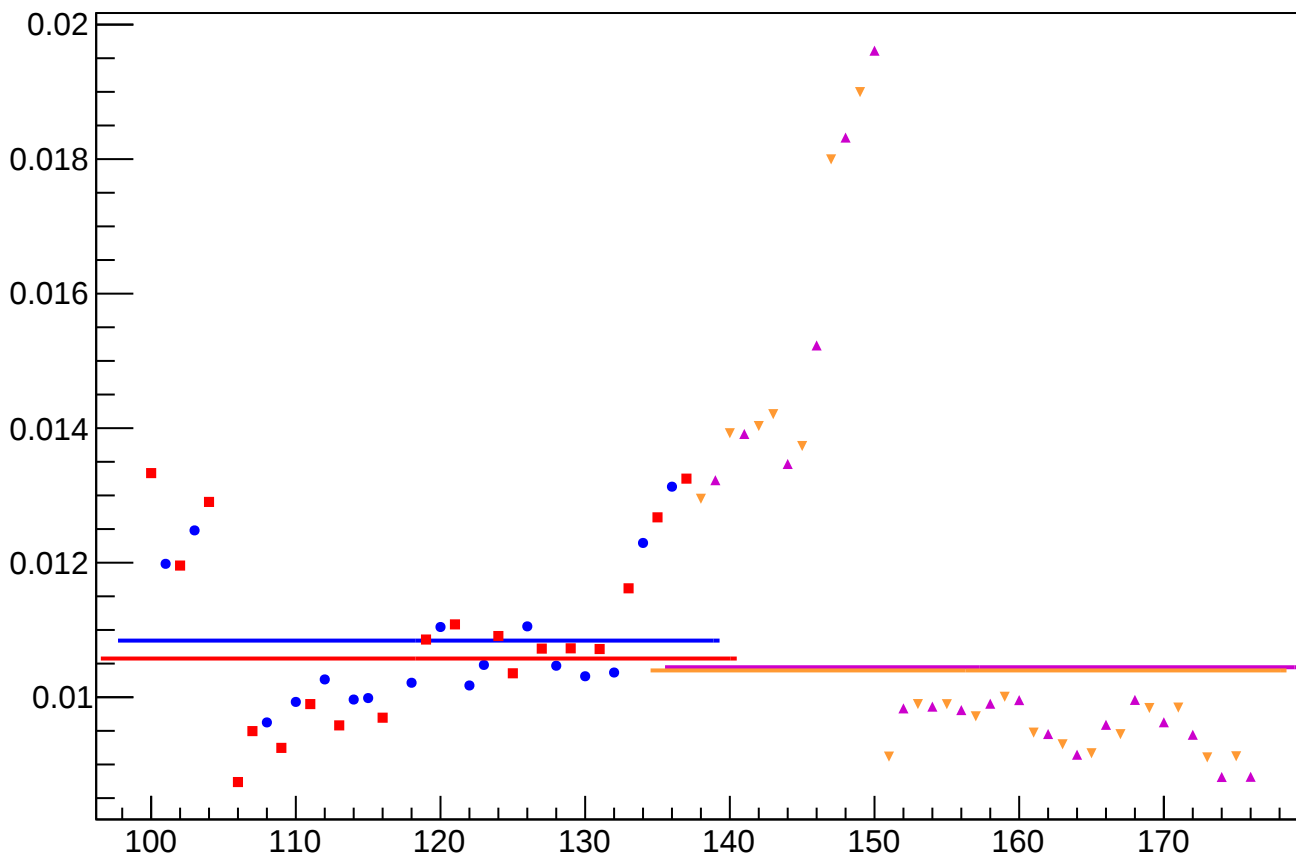
Right: -0.095 $\pm$ 0.000 χ^2 /NDF: 10550892801.3/35

In: -1.559 $\pm$ 0.000 χ^2 /NDF: 184669262984.0/35

Out: -1.532 $\pm$ 0.000 χ^2 /NDF: 197662602327.0/38

All: -1.545 $\pm$ 0.000 χ^2 /NDF: 382403263861.7

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 :1197944.5/19

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 : 2489593.6/38

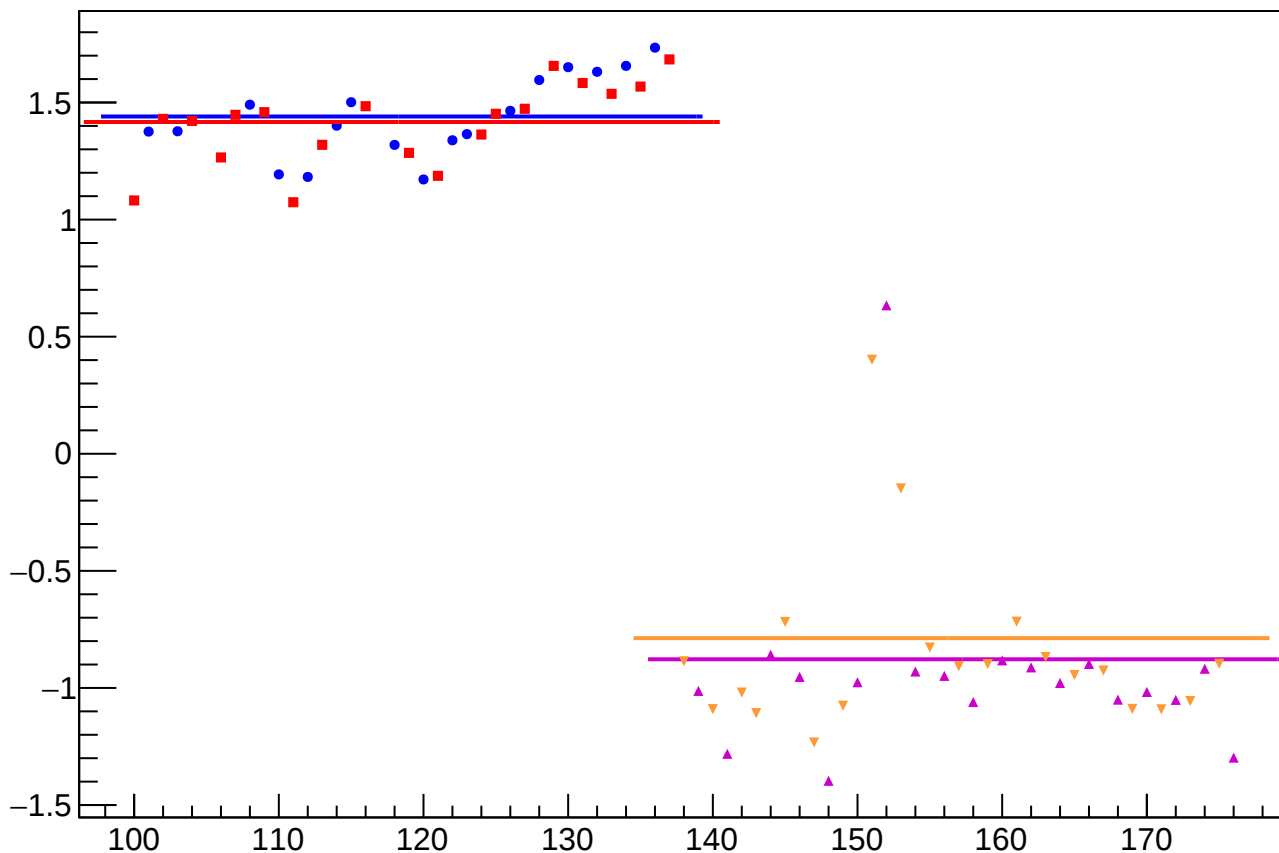
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF :1427915.1/35

Out: 0.010+/-0.000 χ^2/NDF :1379578.1/38

All: 0.011+/-0.000 χ^2/NDF : 2809870.7/74

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.787 $\pm$ 0.000 χ^2 /NDF: 34948846518.2/19

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: -0.832 $\pm$ 0.000 χ^2 /NDF: 79262871656.4/38

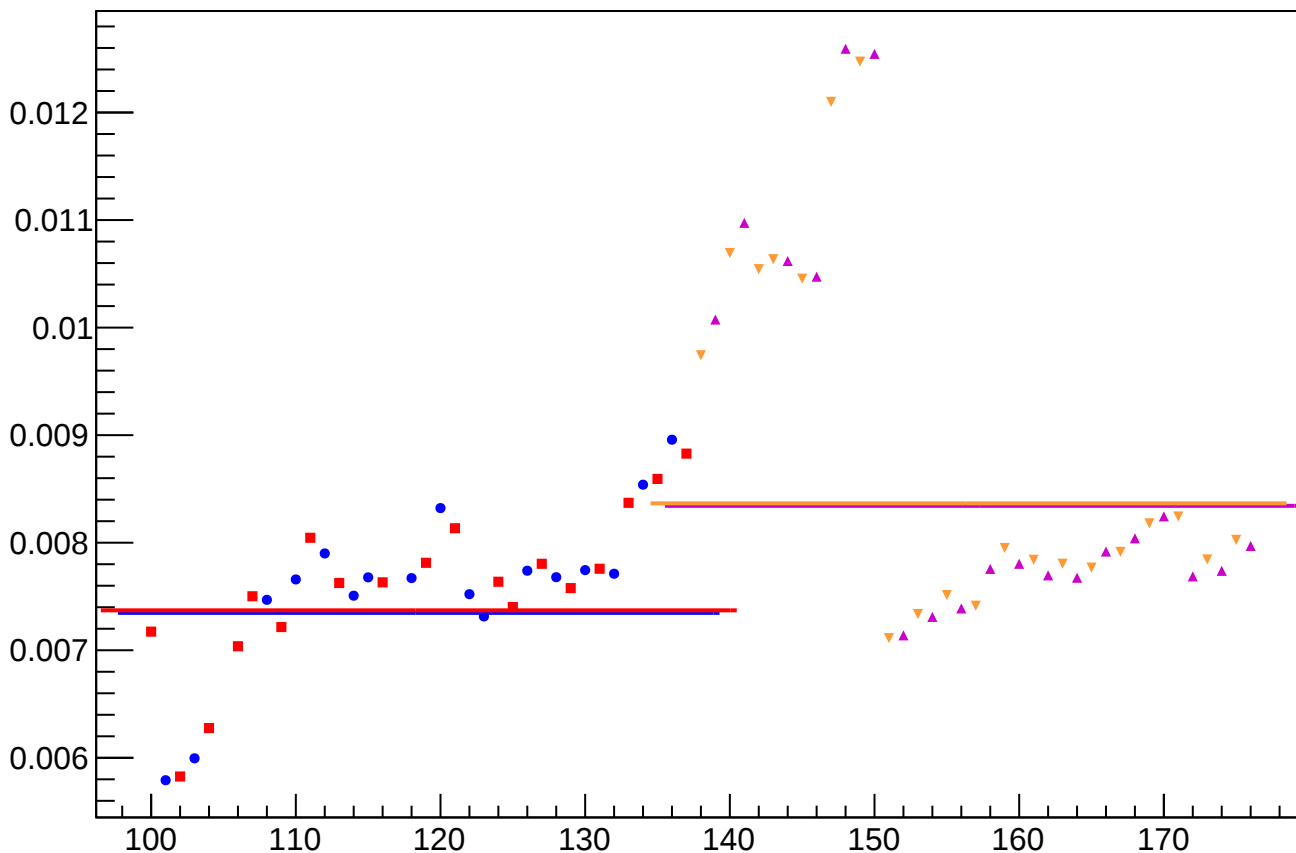
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: -0.009 $\pm$ 0.000 χ^2 /NDF: 456850323722.7/35

Out: 0.057 $\pm$ 0.000 χ^2 /NDF: 424541673892.2/38

All: 0.025 $\pm$ 0.000 χ^2 /NDF: 882118658699.8

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 : 752085.9/19

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 : 1582157.2/38

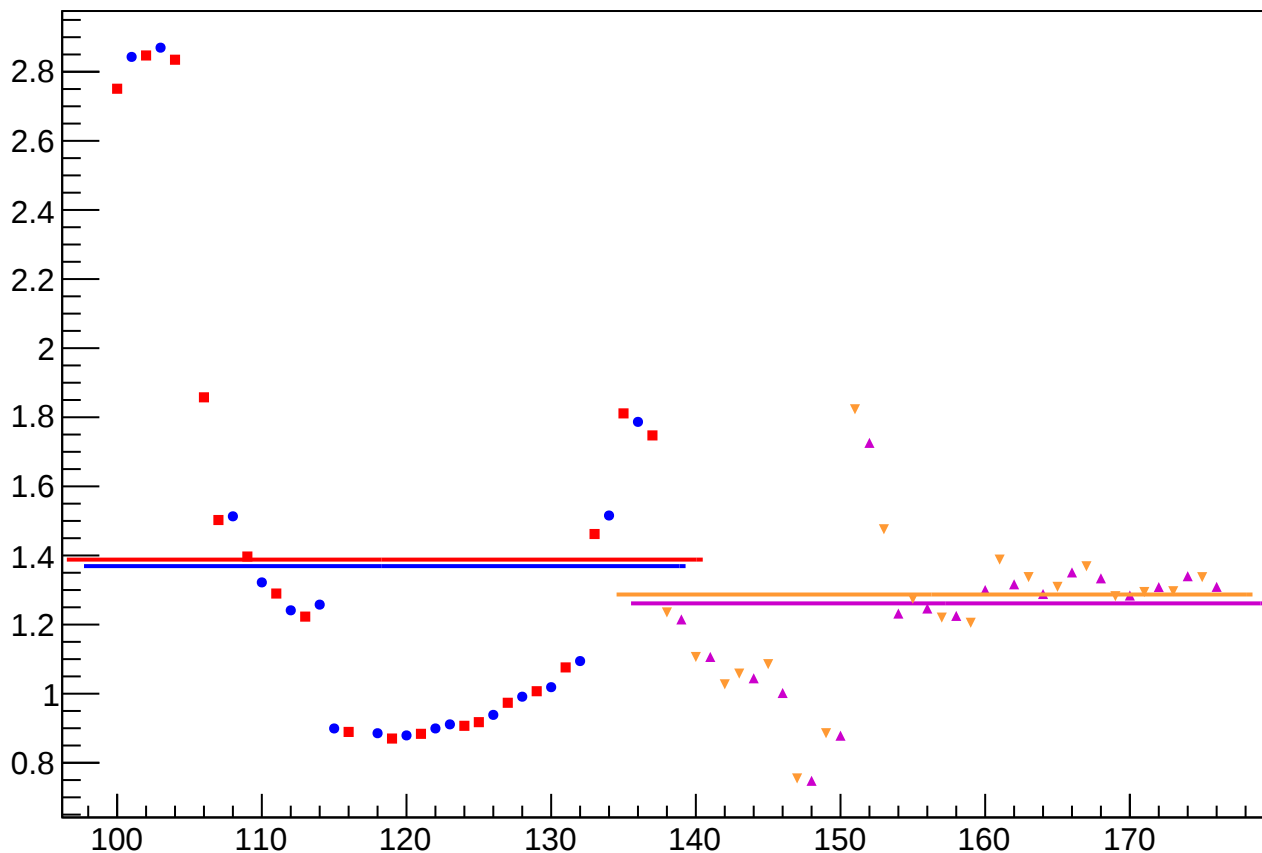
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1209202.1/35

Out: 0.008+/-0.000 χ^2/NDF : 1082472.3/38

All: 0.008+/-0.000 χ^2/NDF : 2291748.7/74

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.287+/-0.000 χ^2/NDF : 9154655599.2/19

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 : 16627979266.4/38

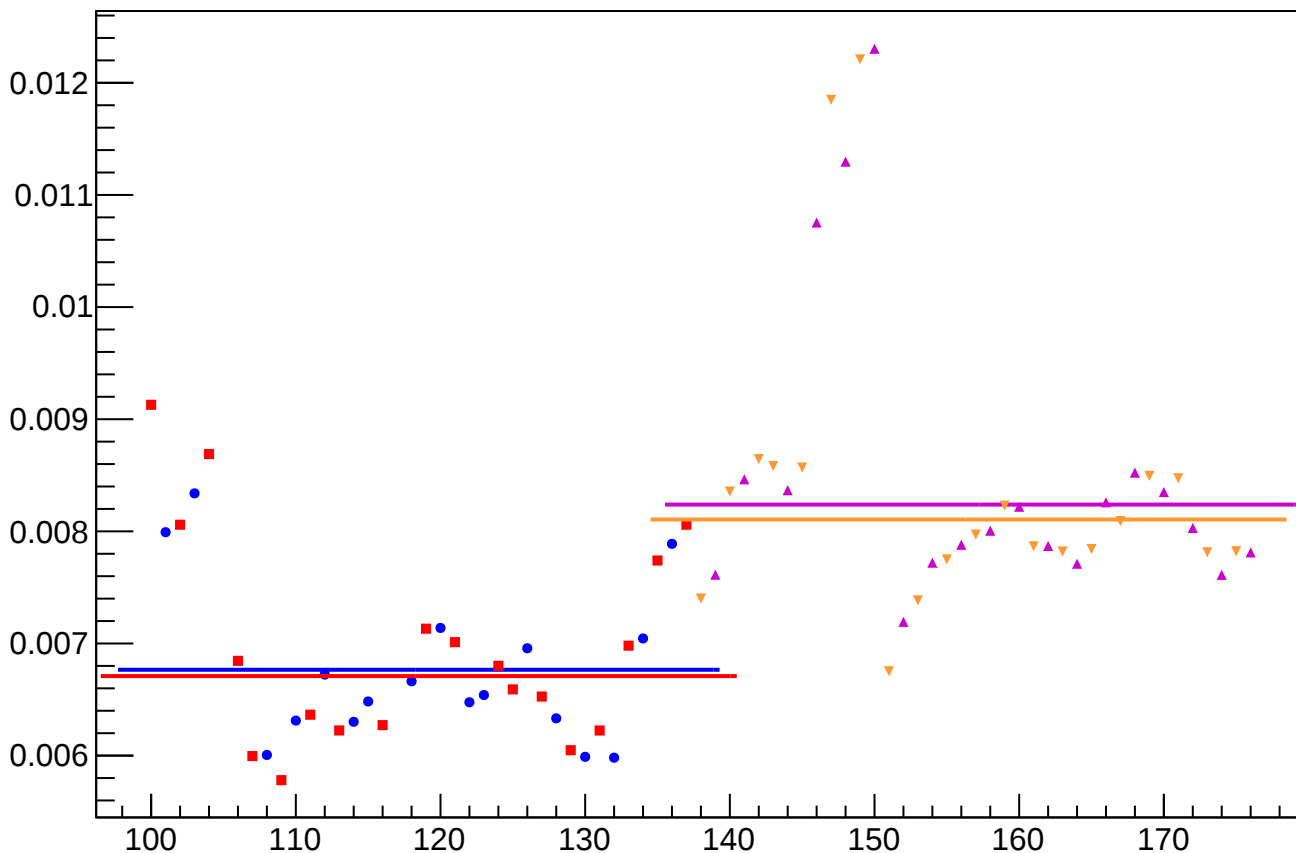
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.306+/-0.000 χ^2/NDF : 62599490268.3/35

Out: 1.329+/-0.000 χ^2/NDF : 59982271571.3/38

All: 1.318+/-0.000 χ^2/NDF : 122681255217.4

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 : 421555.4/19

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 : 872187.5/38

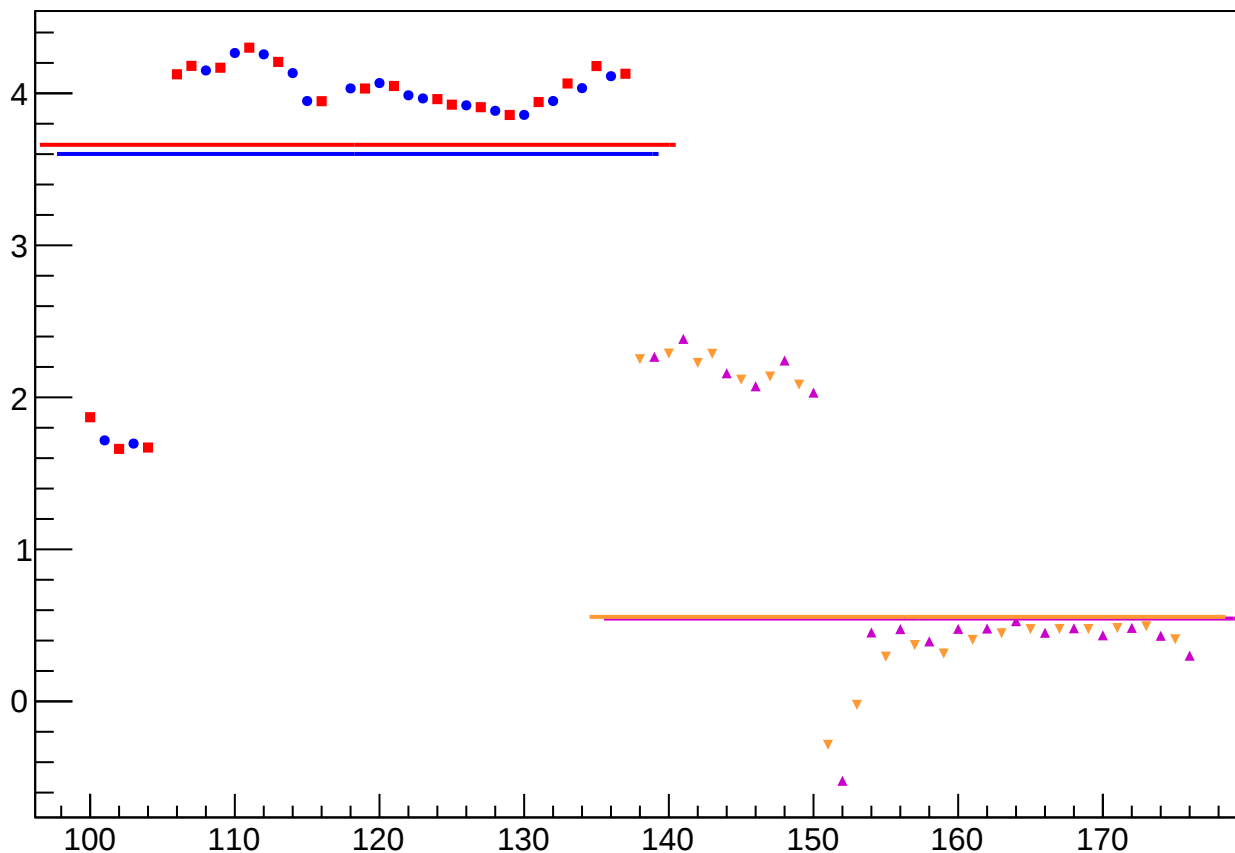
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 976255.6/35

Out: 0.008+/-0.000 χ^2/NDF : 963814.1/38

All: 0.008+/-0.000 χ^2/NDF : 1944377.9/74

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.556+/-0.000 χ^2/NDF : 259339027700.1/19

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.545+/-0.000 χ^2/NDF : 258348446591.0/18

Left: 0.550+/-0.000 χ^2/NDF : 517727289382.4/38

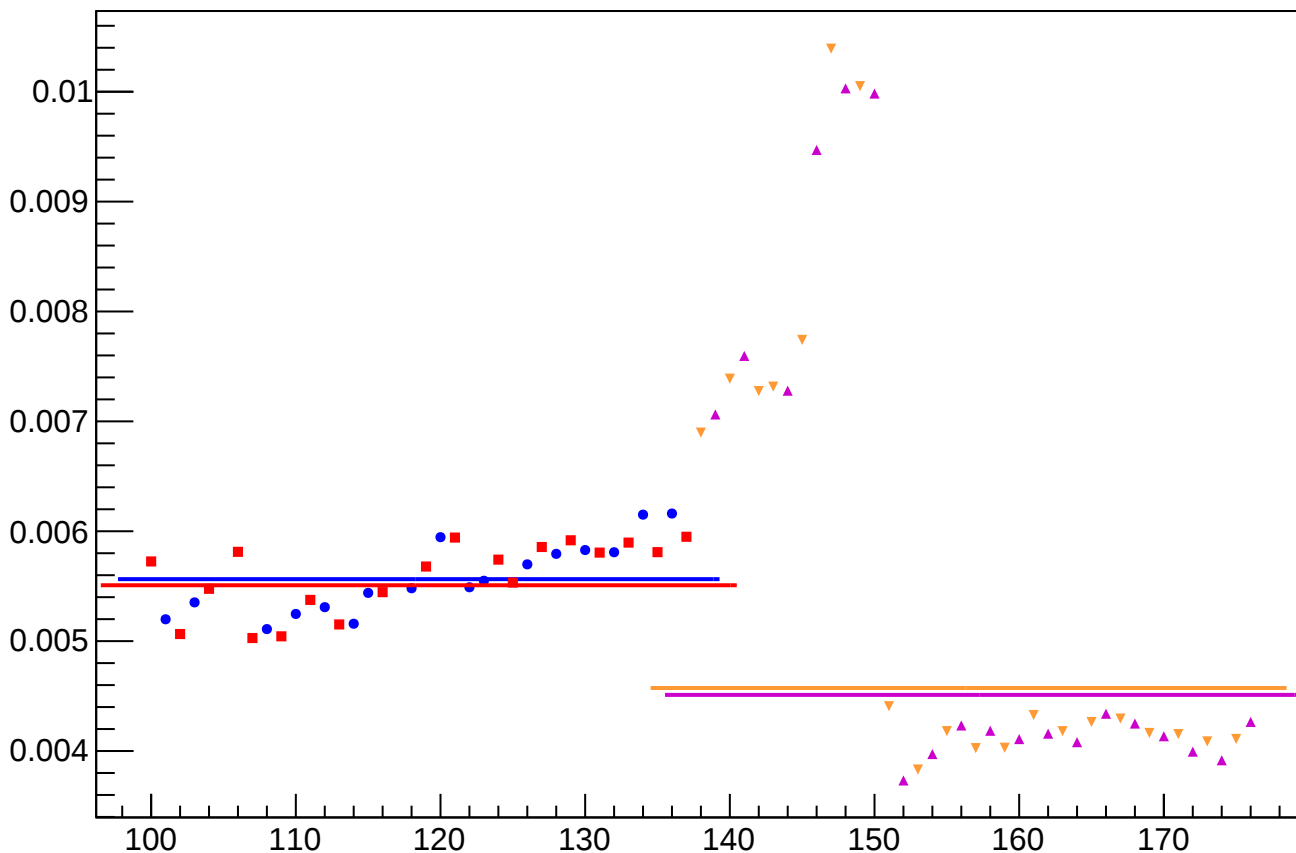
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.314+/-0.000 χ^2/NDF : 1953566140829.4/35

Out: 1.375+/-0.000 χ^2/NDF : 2079802808120.8/38

All: 1.345+/-0.000 χ^2/NDF : 4034962875879.

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 : 2016381.9/19

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 : 4240690.2/38

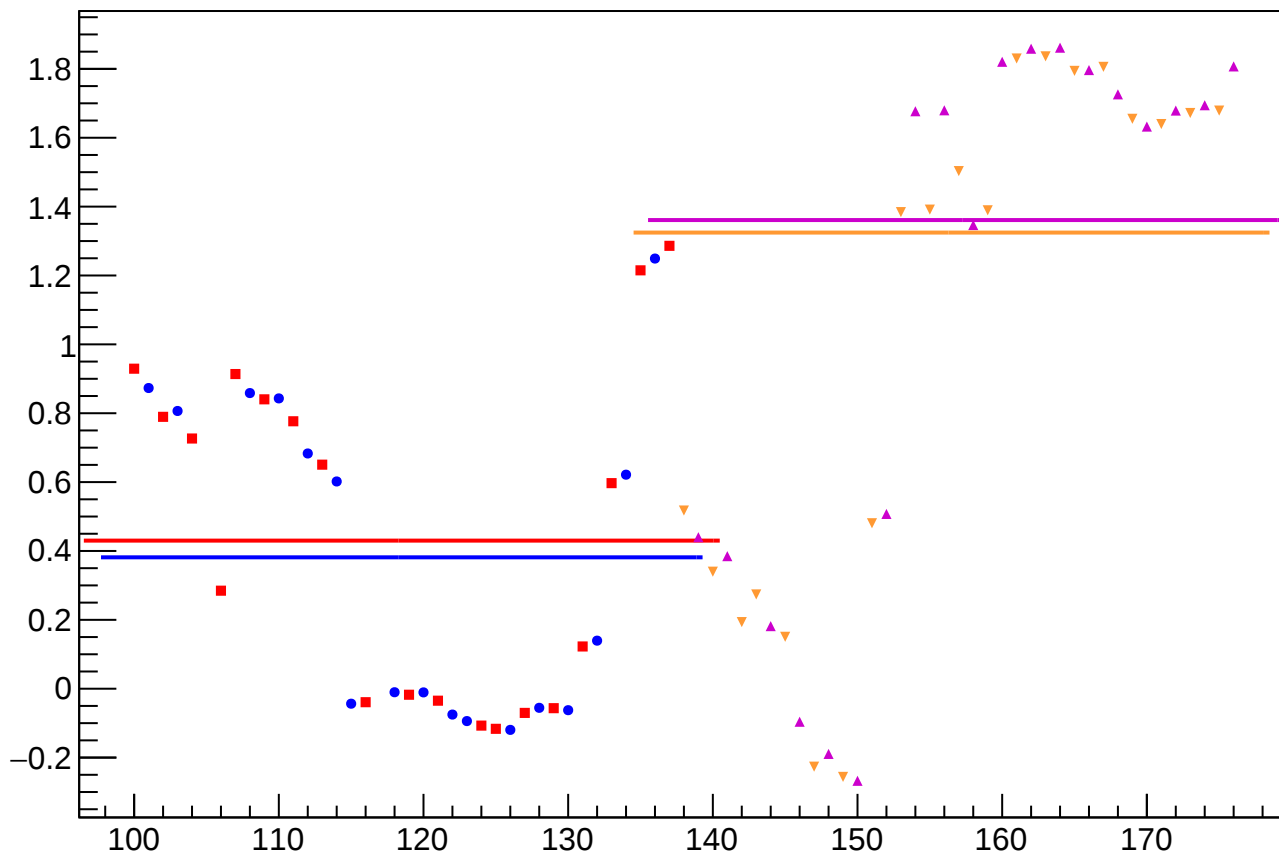
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF : 2627937.6/35

Out: 0.005+/-0.000 χ^2/NDF : 2364193.3/38

All: 0.005+/-0.000 χ^2/NDF : 4993814.8/74

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 1.325 $\pm$ 0.000 χ^2 /NDF: 42845382204.1/19

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: 1.343 $\pm$ 0.000 χ^2 /NDF: 91943088268.0/38

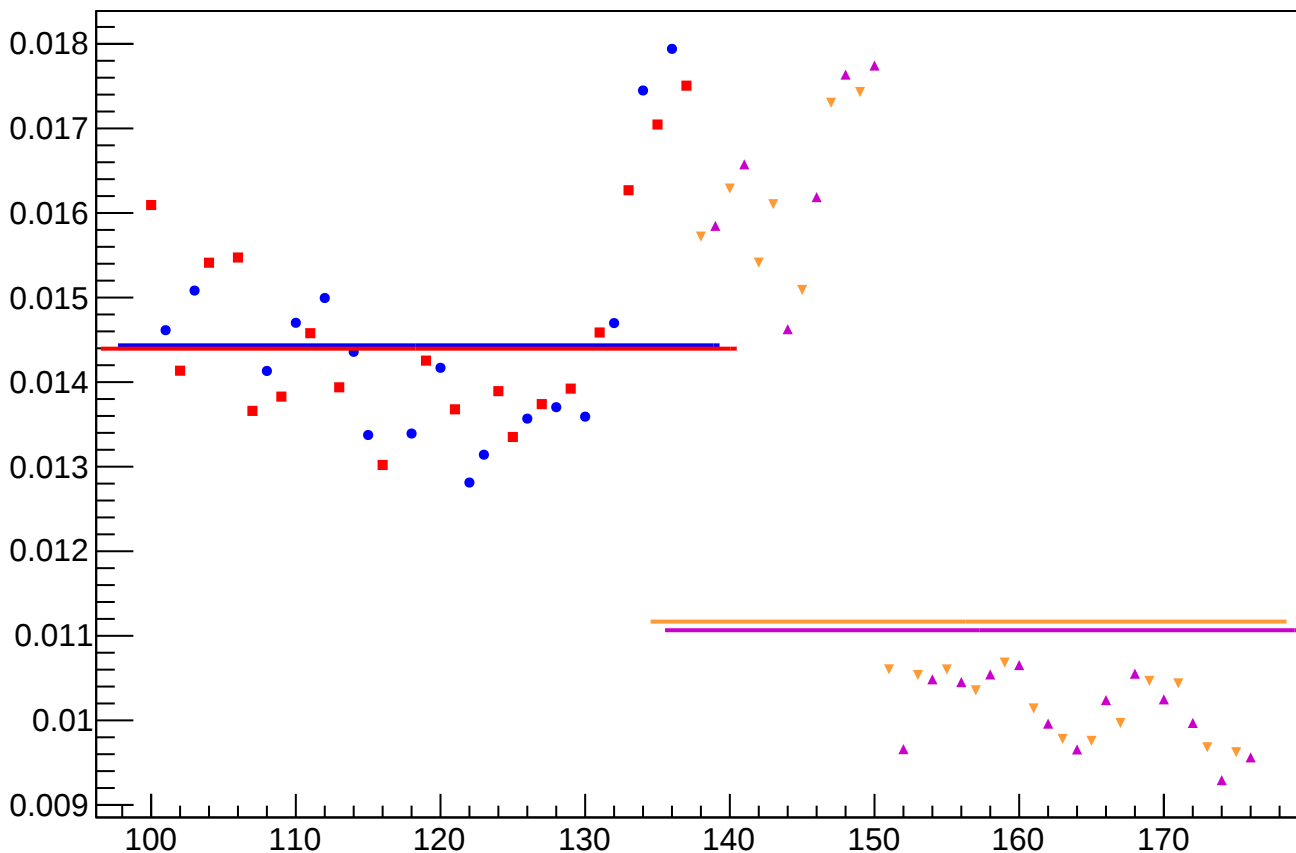
Right: 0.406 $\pm$ 0.000 χ^2 /NDF: 13839390791.2/35

In: 1.147 $\pm$ 0.000 χ^2 /NDF: 79965571943.0/35

Out: 1.122 $\pm$ 0.000 χ^2 /NDF: 70247618611.7/38

All: 1.134 $\pm$ 0.000 χ^2 /NDF: 150259008642.8

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 110224.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1175947.4/19

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 74531.6/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1252442.1/18

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2429583.2/38

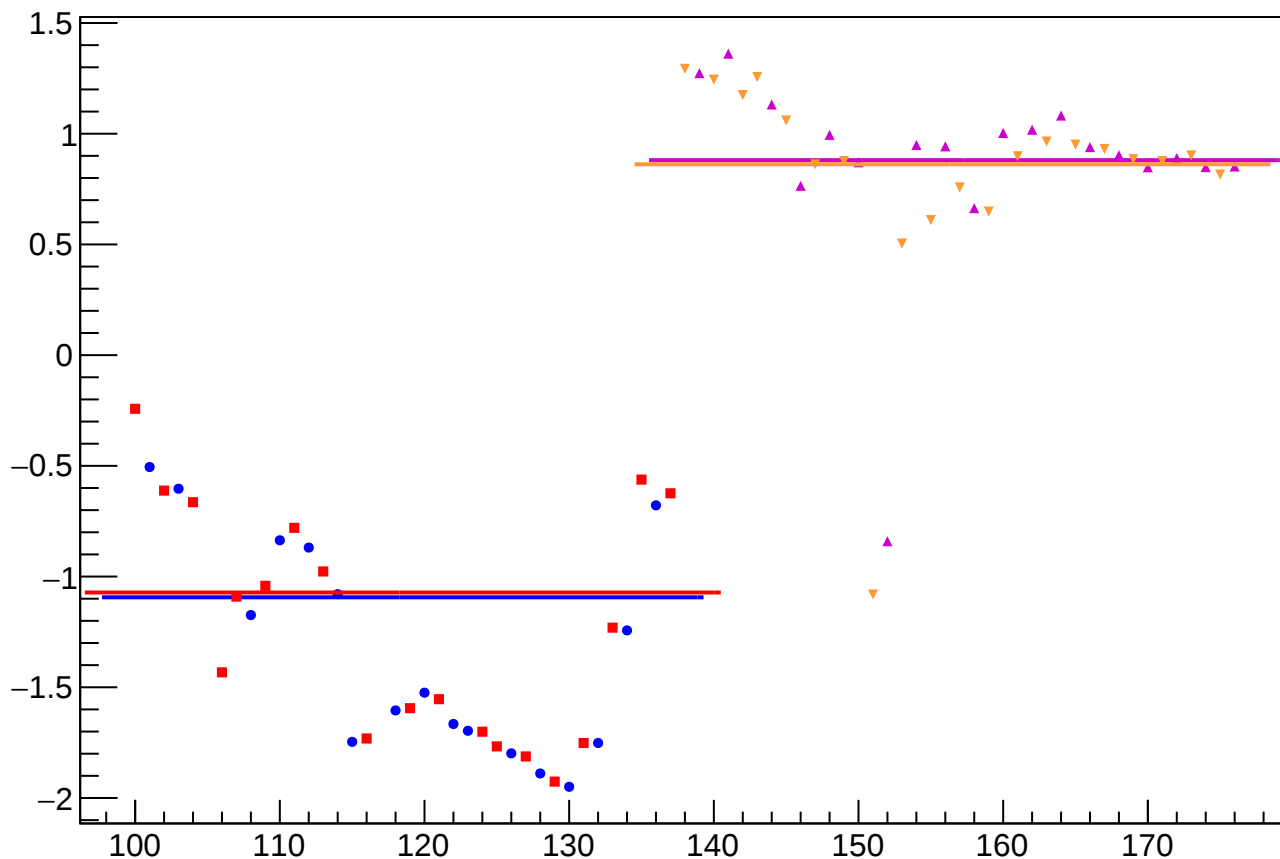
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 184806.5/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:1926307.4/35

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1790000.6/38

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3717700.8/74

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.862+/-0.000 χ^2/NDF : 125036381654.9/19

Right Out: -1.072+/-0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.881+/-0.000 χ^2/NDF : 145933123110.2/18

Left: 0.871+/-0.000 χ^2/NDF : 271144539758.3/38

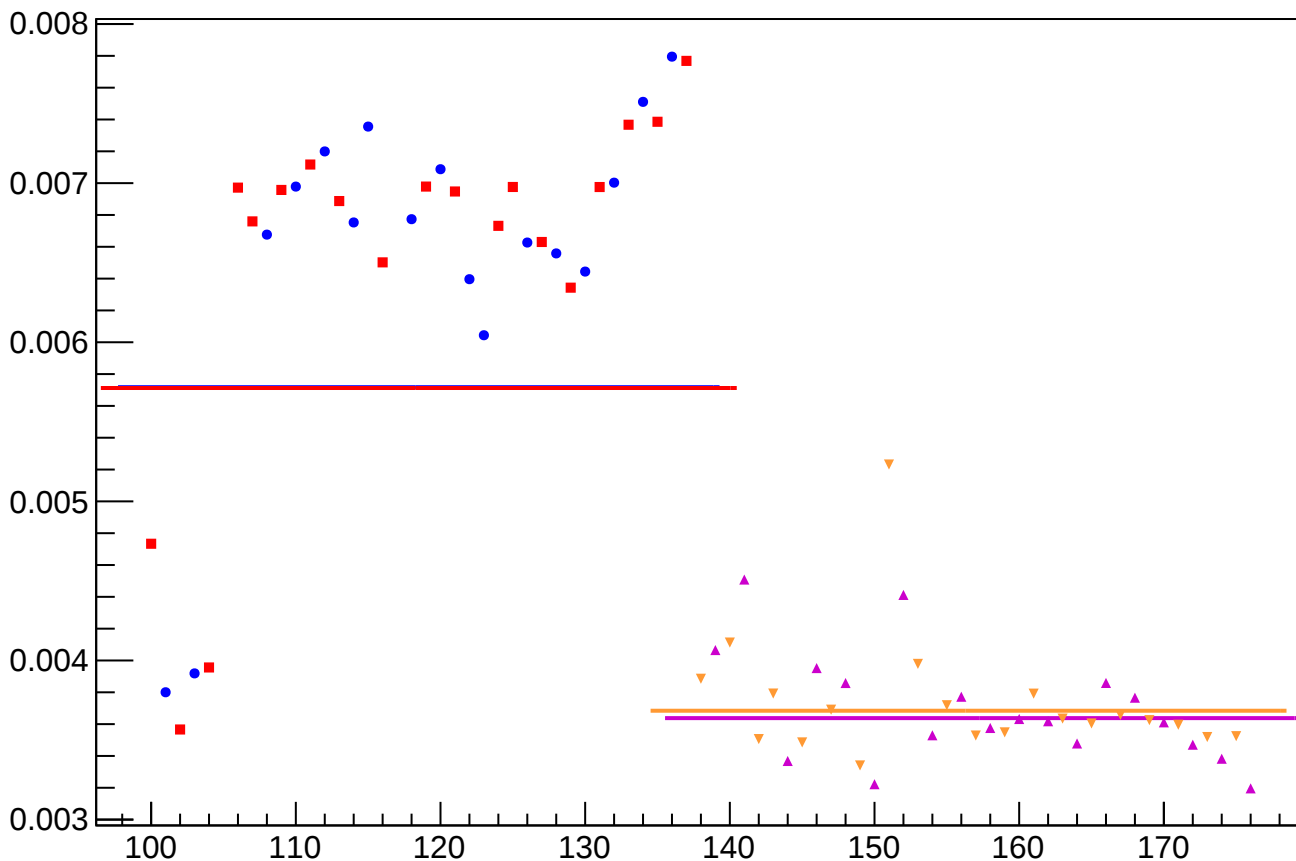
Right: -1.083+/-0.000 χ^2/NDF : 102900070258.1/35

In: 0.577+/-0.000 χ^2/NDF : 801104514152.6/35

Out: 0.555+/-0.000 χ^2/NDF : 766038065009.9/38

All: 0.566+/-0.000 χ^2/NDF : 1567436806491.0/73

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 :170837.5/19

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 : 389185.7/38

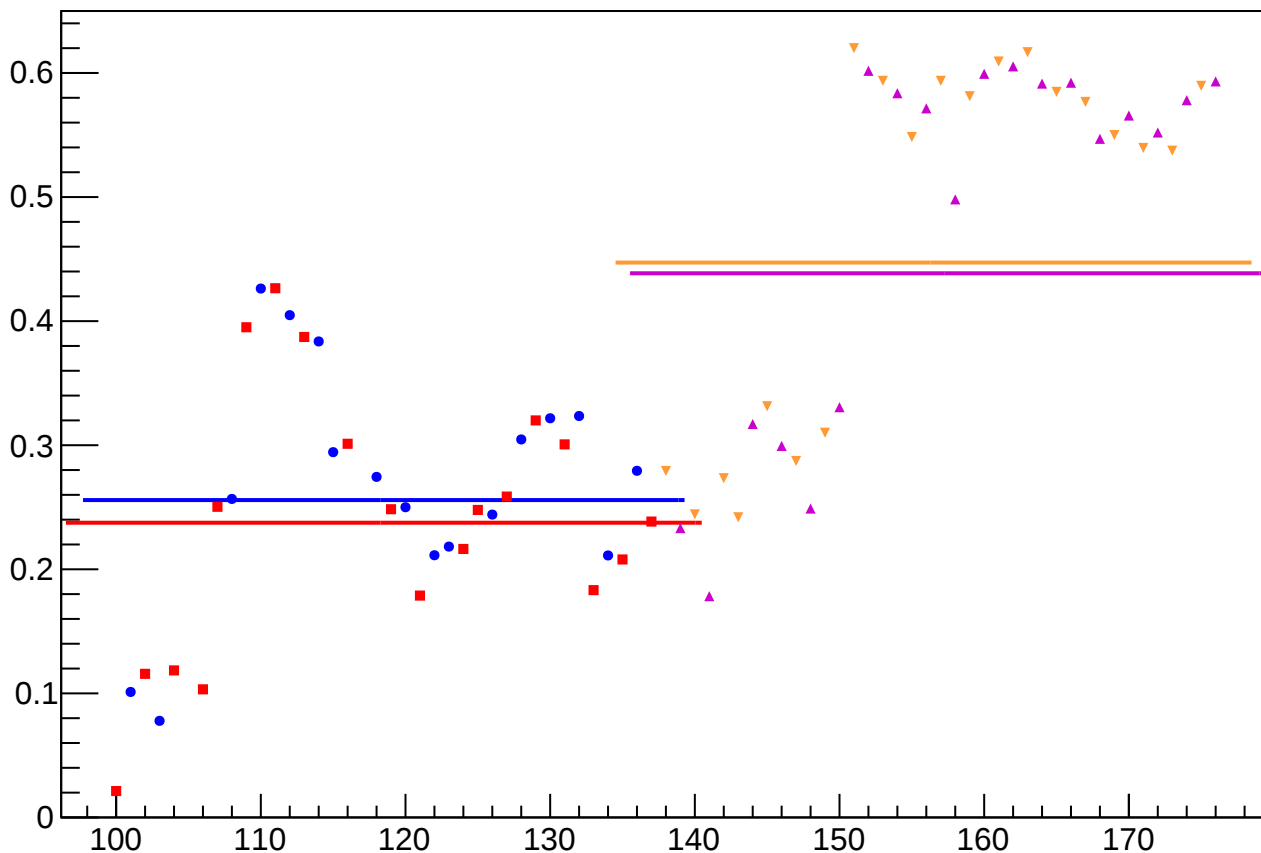
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2383945.3/35

Out: 0.004+/-0.000 χ^2/NDF :2401981.6/38

All: 0.004+/-0.000 χ^2/NDF : 4788753.9/74

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.447+/-0.000 χ^2/NDF : 90374253982.3/19

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: 0.443+/-0.000 χ^2/NDF : 181987267594.8/38

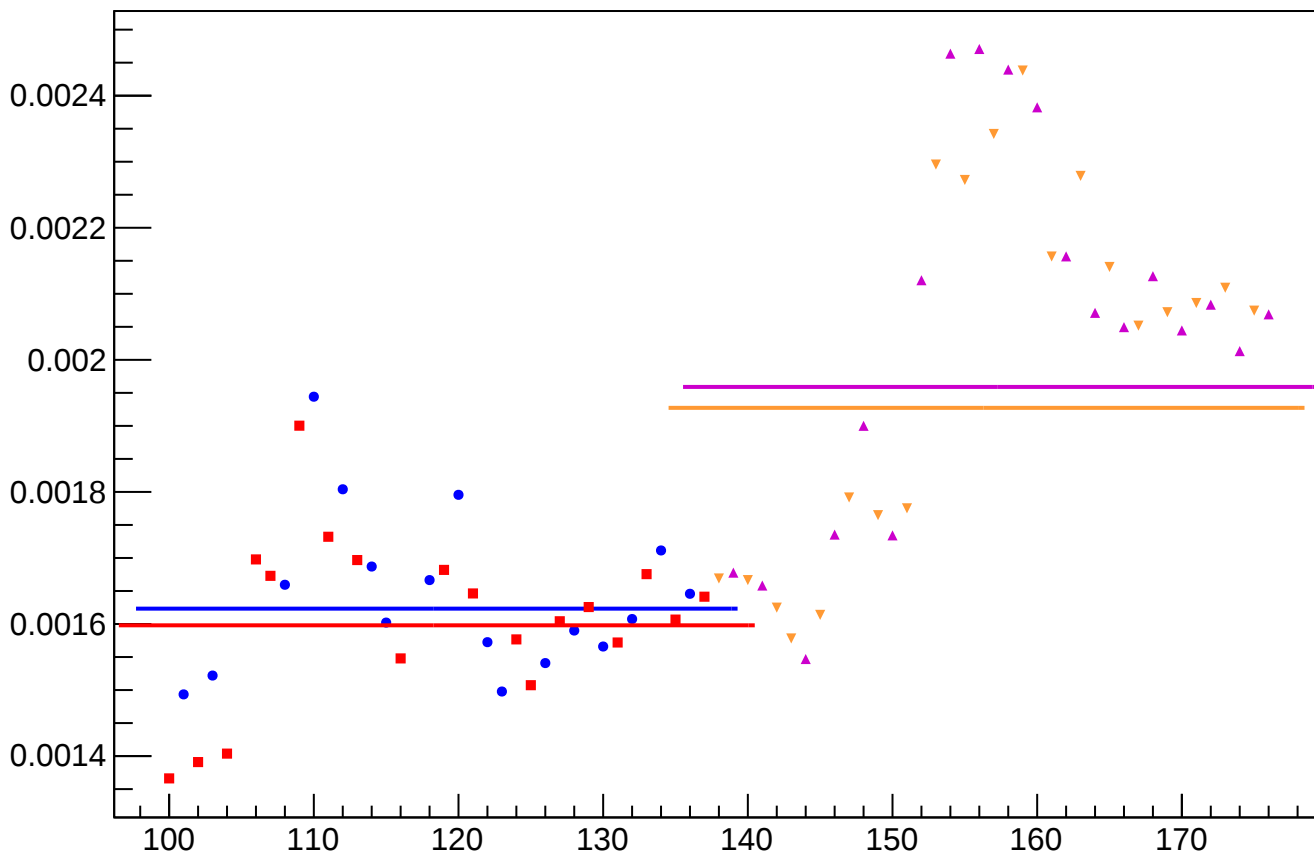
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.366+/-0.000 χ^2/NDF : 161934358649.0/35

Out: 0.361+/-0.000 χ^2/NDF : 187129741964.8/38

All: 0.363+/-0.000 χ^2/NDF : 349122246062.3

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 : 561773.7/19

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 : 1134705.6/38

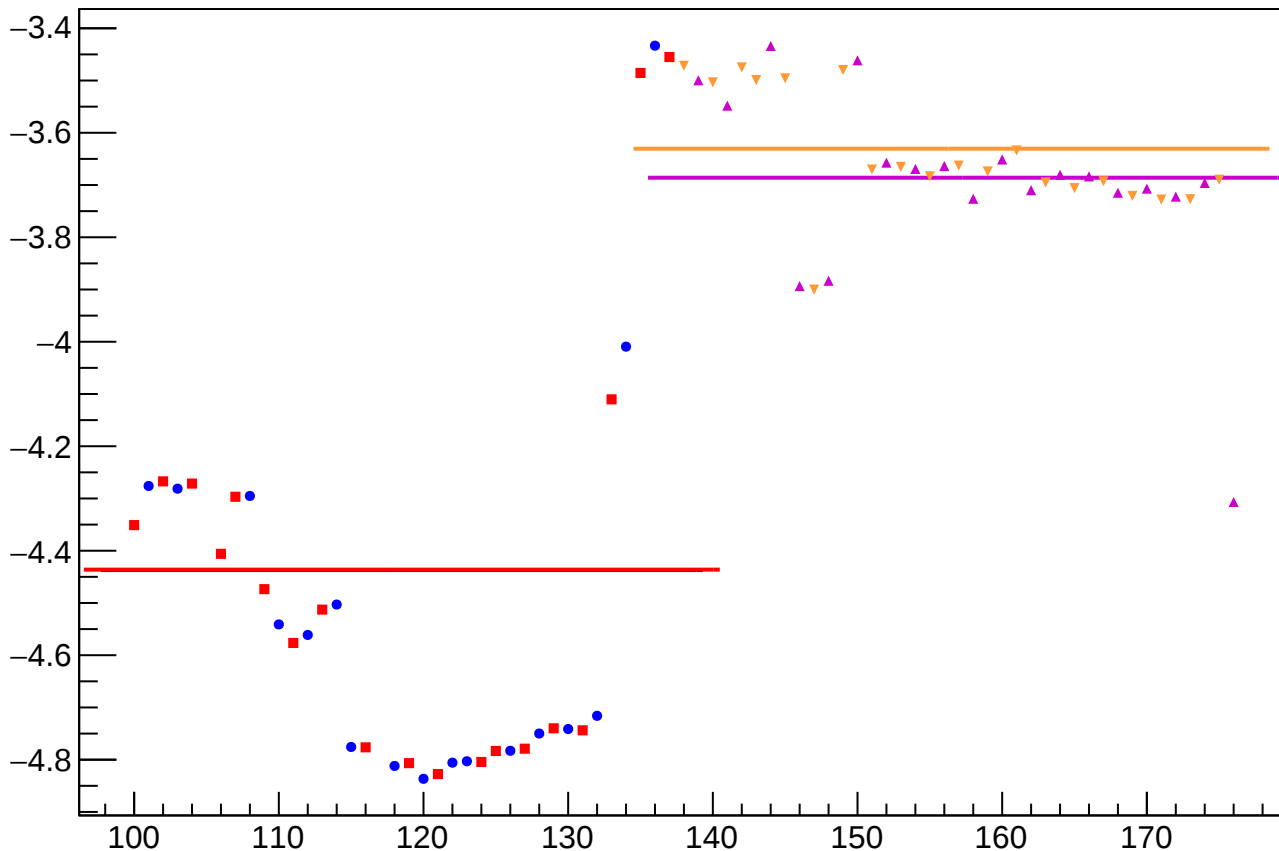
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 952840.6/35

Out: 0.002+/-0.000 χ^2/NDF : 1001238.3/38

All: 0.002+/-0.000 χ^2/NDF : 1960831.3/74

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437+/-0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.630+/-0.000 χ^2/NDF : 40828381671.2/19

Right Out: -4.436+/-0.000 χ^2/NDF : 325183860699.4/18

Left In: -3.686+/-0.000 χ^2/NDF : 107832792389.2/18

Left: -3.658+/-0.000 χ^2/NDF : 153616578664.0/38

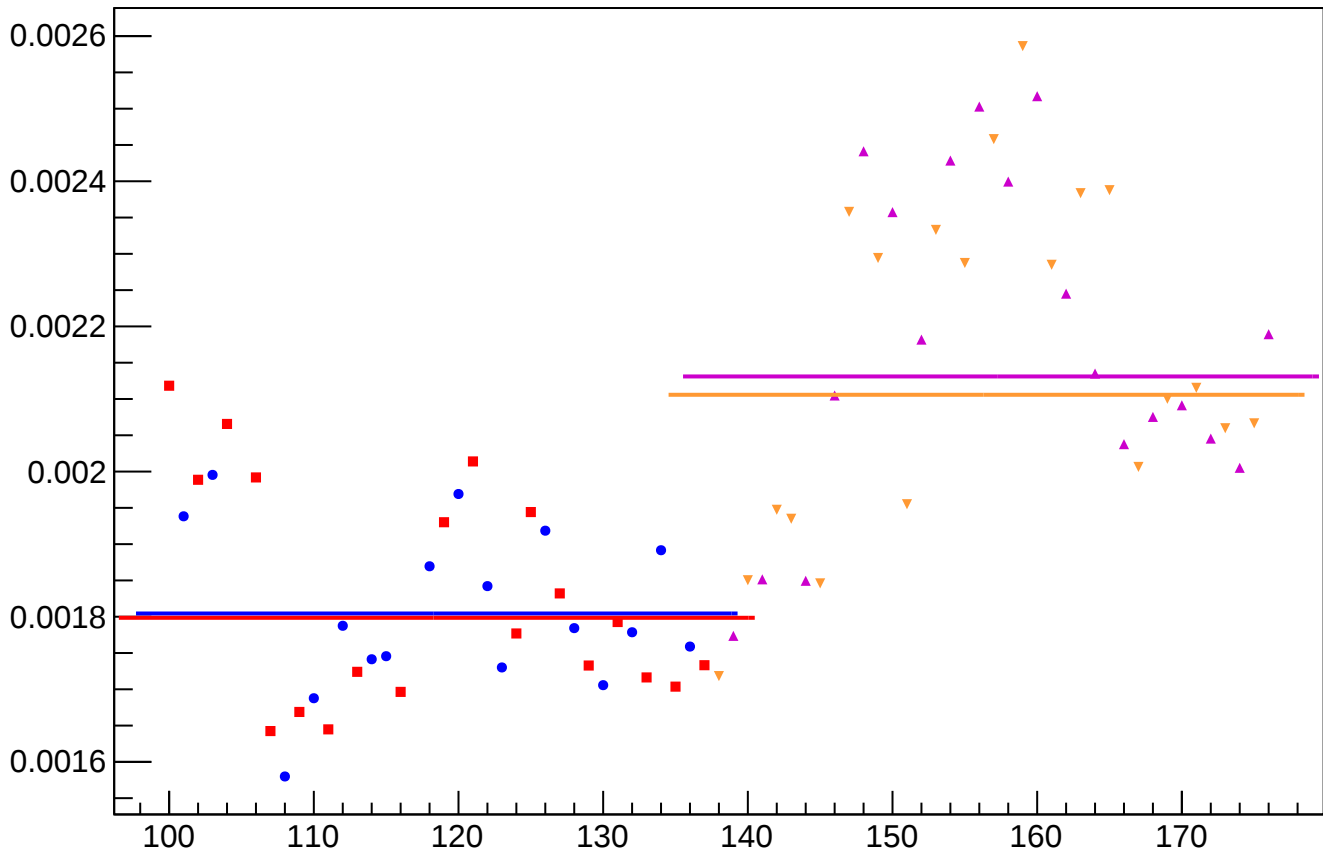
Right: -4.437+/-0.000 χ^2/NDF : 717996921060.6/35

In: -3.978+/-0.000 χ^2/NDF : 1189297687344.1/35

Out: -3.947+/-0.000 χ^2/NDF : 1202676645550.7/38

All: -3.962+/-0.000 χ^2/NDF : 2394469984012

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 :344236.4/19

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 : 652482.5/38

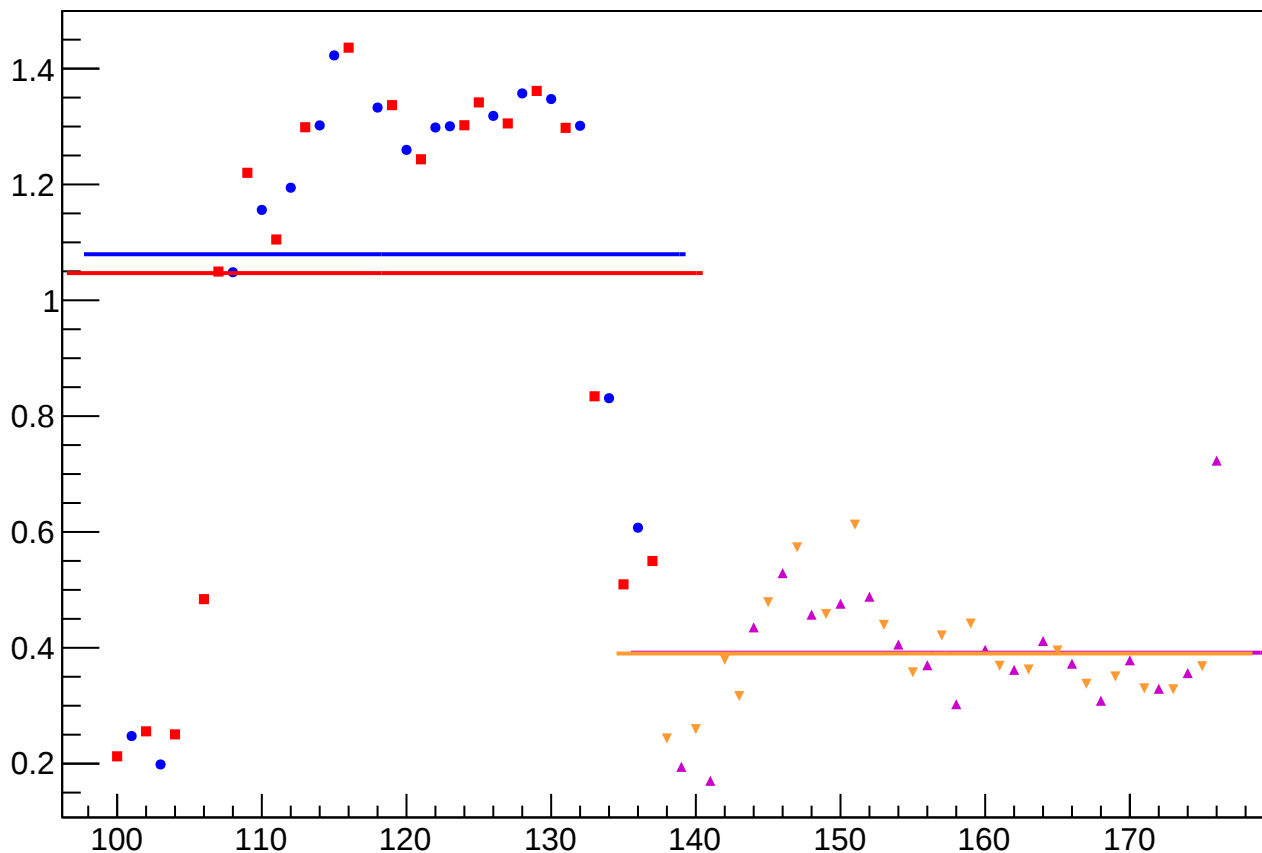
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :615864.1/35

Out: 0.002+/-0.000 χ^2/NDF :668625.2/38

All: 0.002+/-0.000 χ^2/NDF : 1286404.7/74

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.390 $\pm$ 0.000 χ^2 /NDF:1380580609.9/19

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: 0.391 $\pm$ 0.000 χ^2 /NDF: 3679850319.8/38

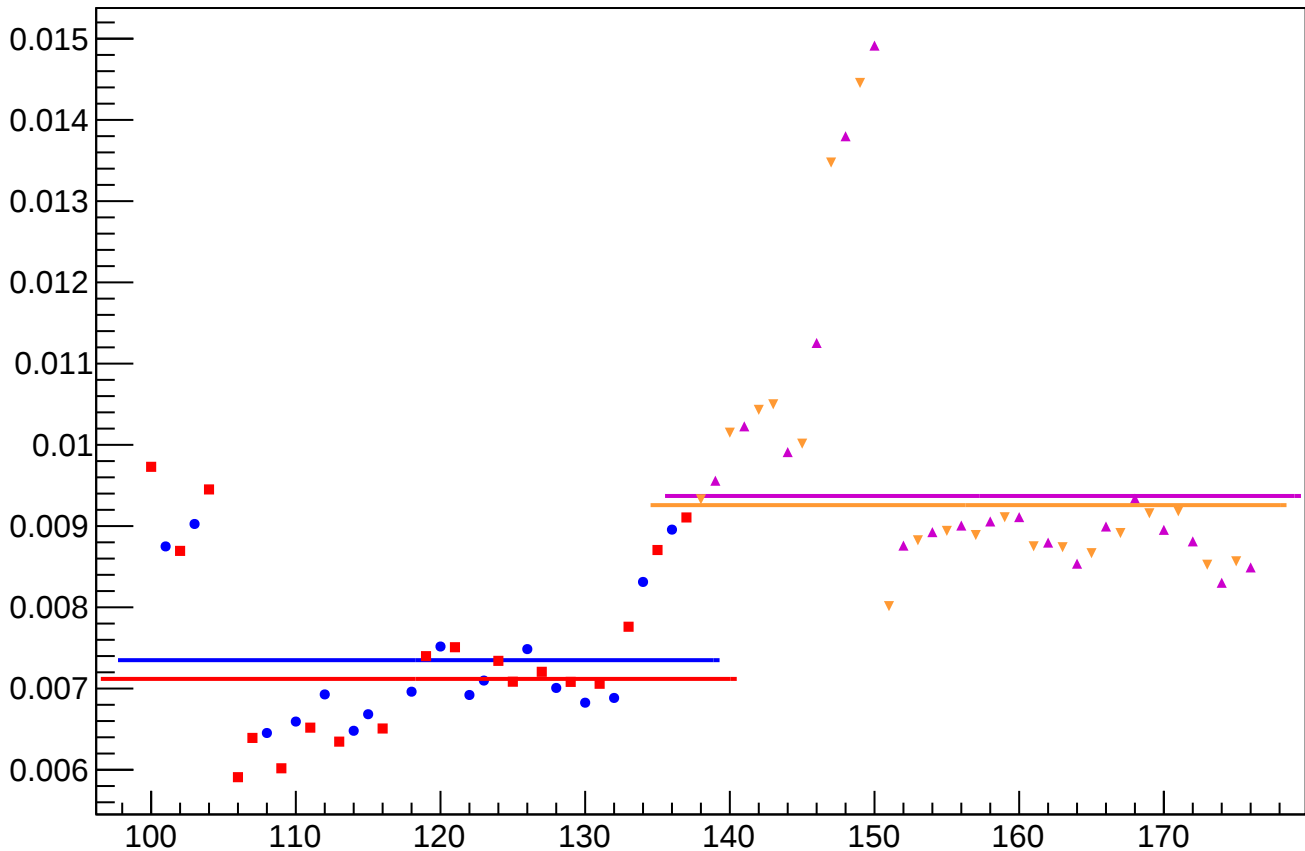
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.687 $\pm$ 0.000 χ^2 /NDF:52890016423.9/35

Out: 0.683 $\pm$ 0.000 χ^2 /NDF:53989985728.6/38

All: 0.685 $\pm$ 0.000 χ^2 /NDF: 106882261134.0

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 : 496499.7/19

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 : 1050688.1/38

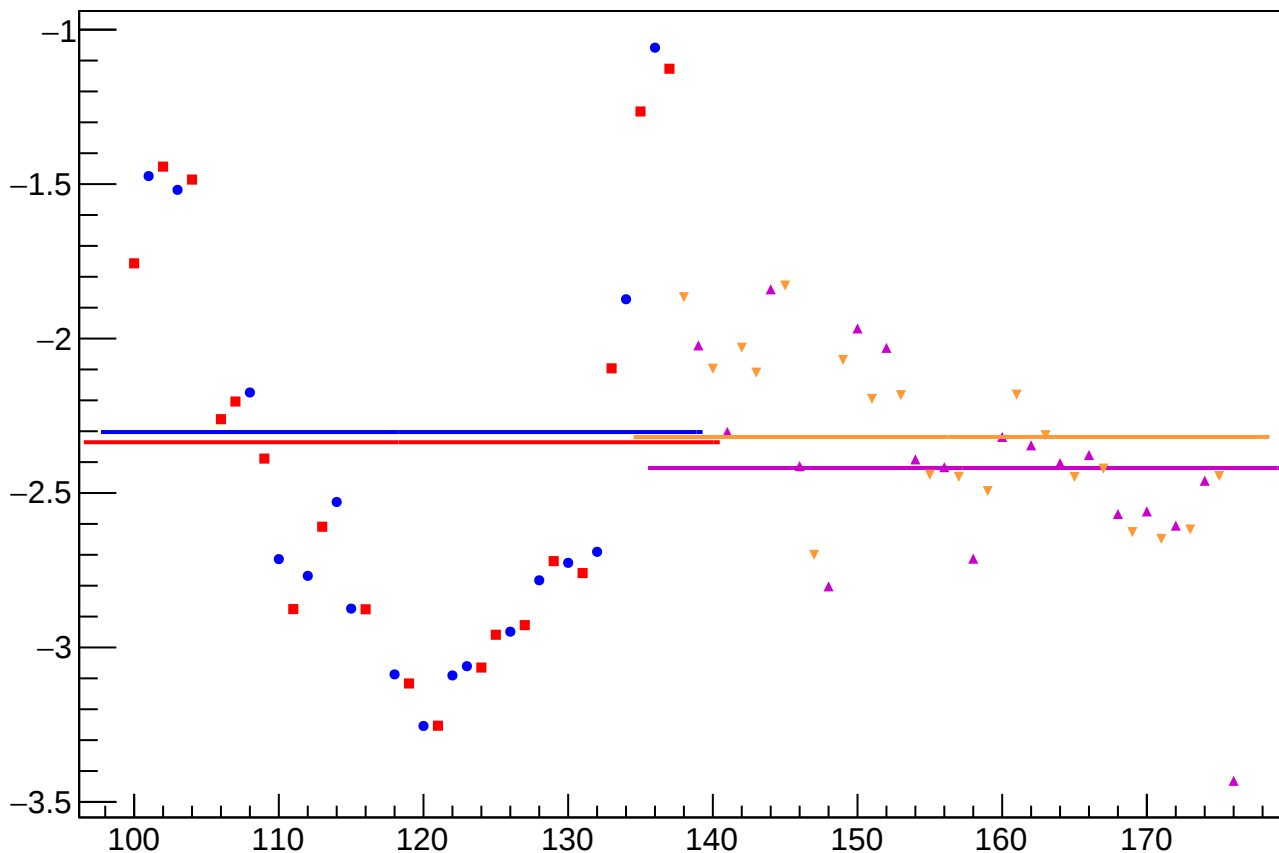
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1303717.8/35

Out: 0.008+/-0.000 χ^2/NDF : 1454277.9/38

All: 0.008+/-0.000 χ^2/NDF : 2769715.7/74

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303 ± 0.000 $\chi^2/\text{NDF}: 73755914805.8/16$

Left Out: -2.319 ± 0.000 $\chi^2/\text{NDF}: 11825902160.2/19$

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: -2.368 ± 0.000 $\chi^2/\text{NDF}: 34380125549.5/38$

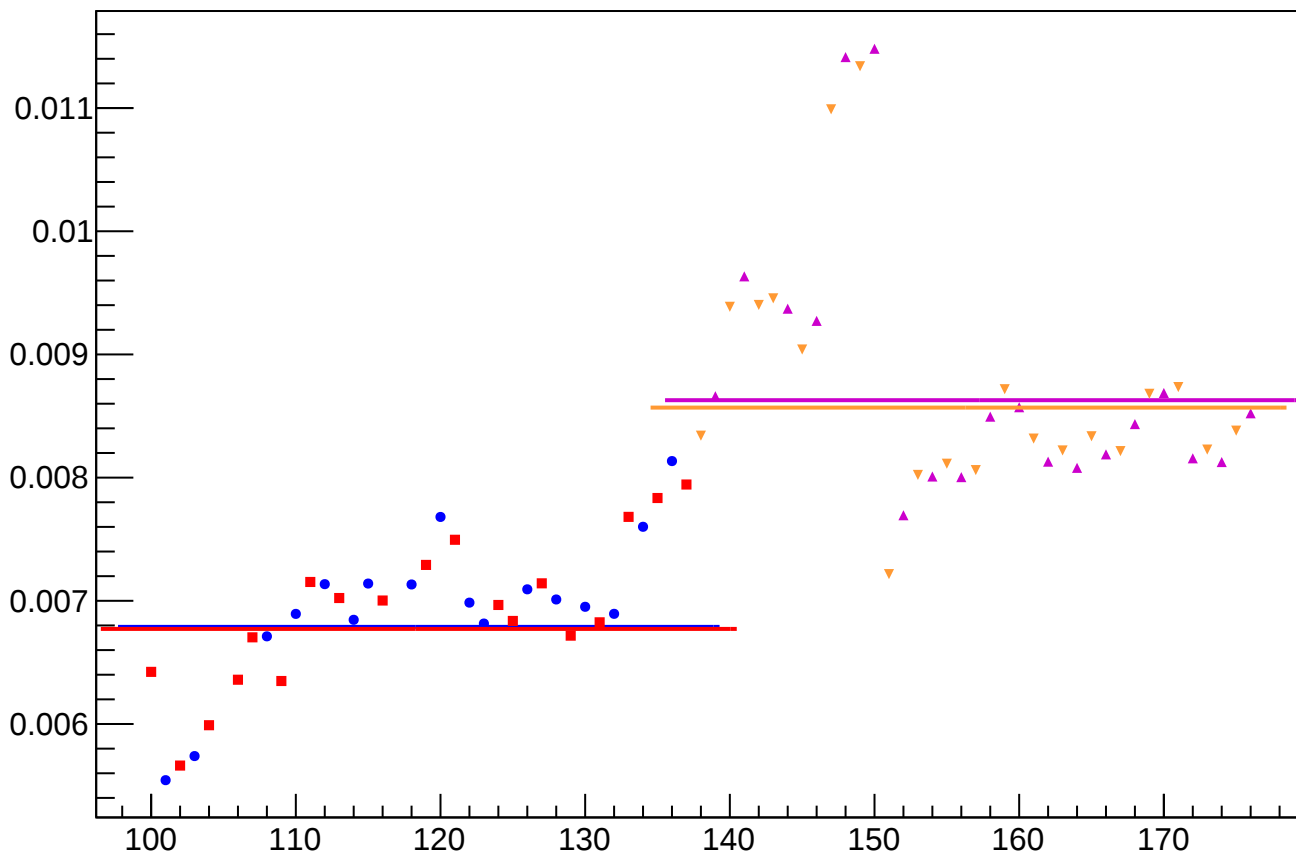
Right: -2.320 ± 0.000 $\chi^2/\text{NDF}: 138336112561.8/35$

In: -2.369 ± 0.000 $\chi^2/\text{NDF}: 96432964100.8/35$

Out: -2.326 ± 0.000 $\chi^2/\text{NDF}: 76350336953.1/38$

All: -2.347 ± 0.000 $\chi^2/\text{NDF}: 173111014898.3$

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 165199.2/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:293959.4/19

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 123244.0/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:309272.0/18

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 603946.0/38

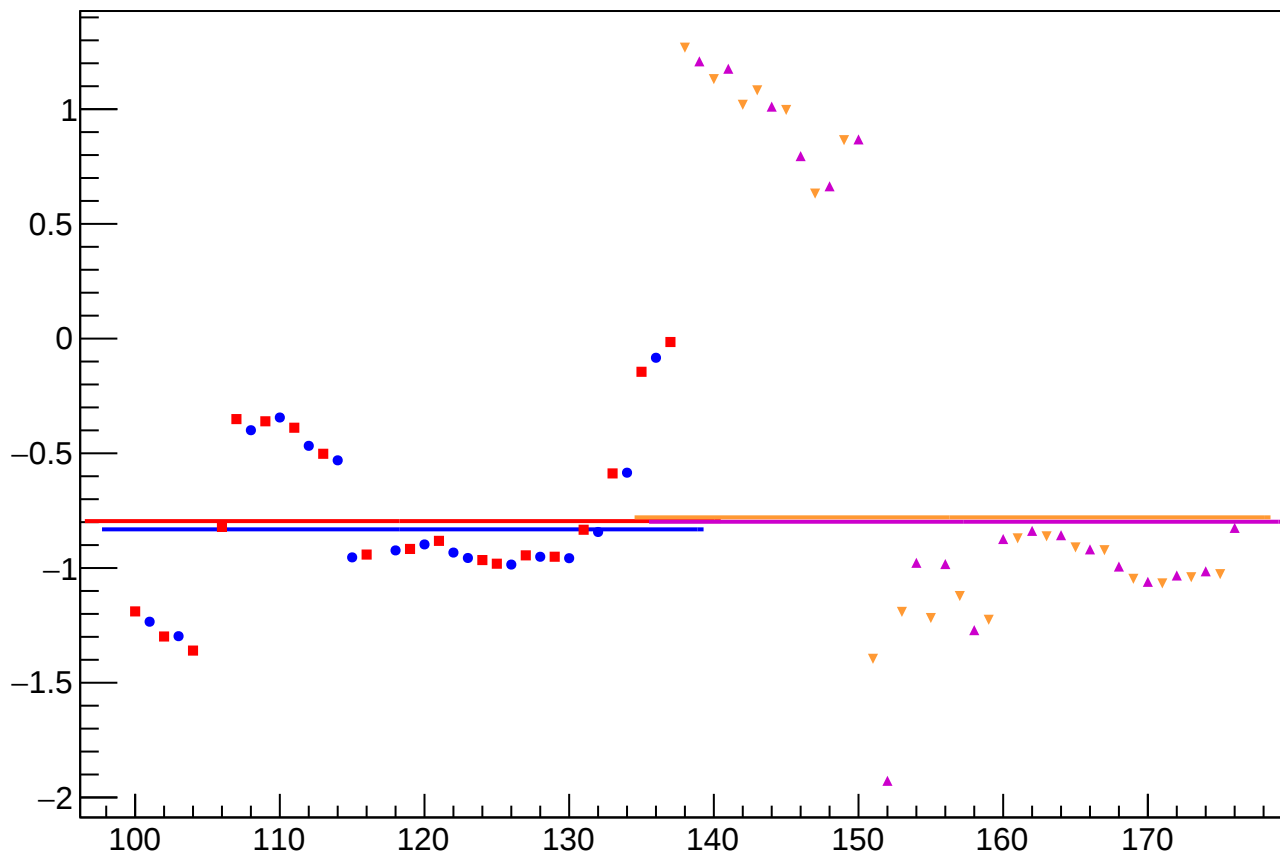
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 288483.5/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:1034742.0/35

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:980955.7/38

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2016695.9/74

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.789+/-0.000

χ^2/NDF : 241870894457.4/38

Left Out: -0.779+/-0.000

χ^2/NDF : 118458736738.2/19

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

In: -0.805+/-0.000

χ^2/NDF : 130113046699.1/35

Out: -0.783+/-0.000

χ^2/NDF : 126293148658.8/38

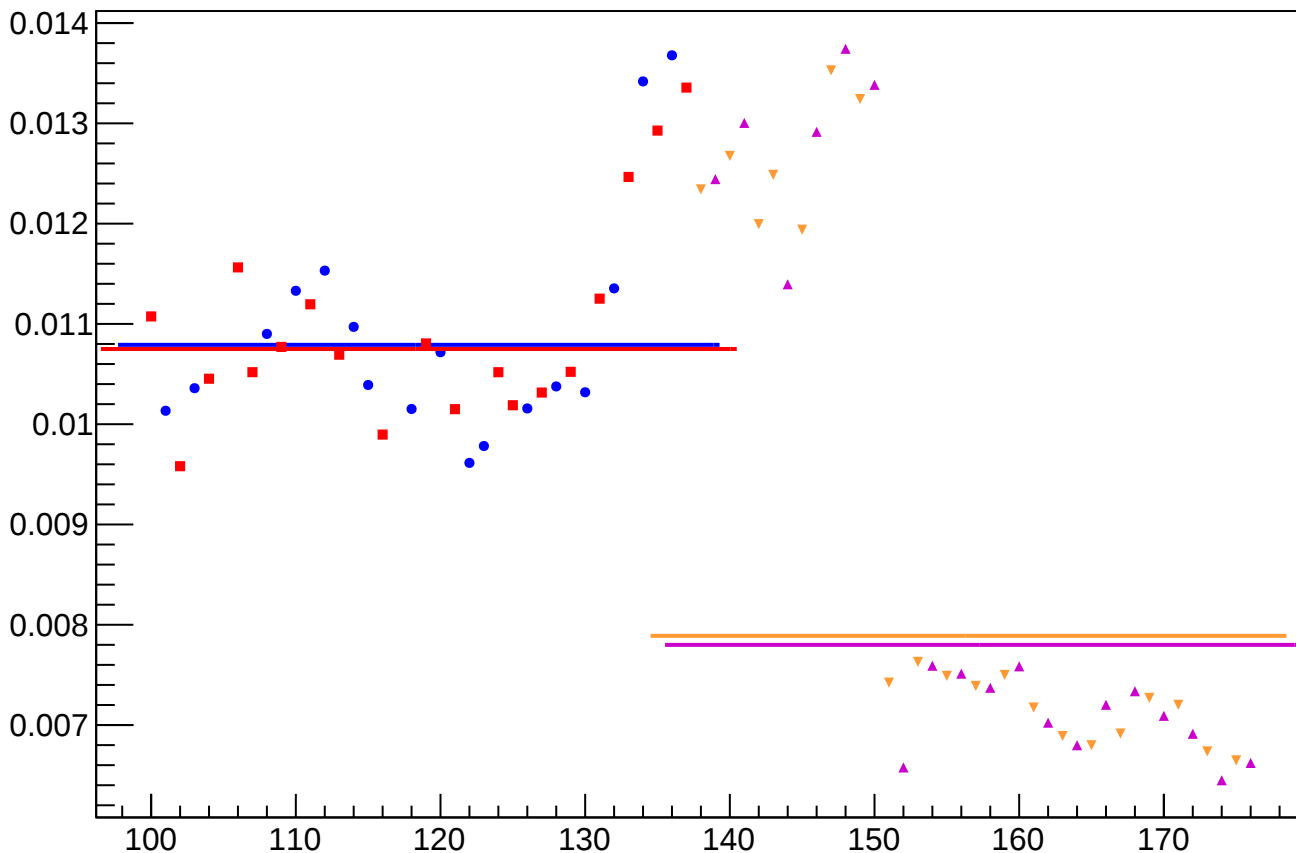
Left In: -0.798+/-0.000

χ^2/NDF : 123371260470.0/18

All: -0.794+/-0.000

χ^2/NDF : 256476779249.0

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 :1634571.0/19

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 : 3358755.6/38

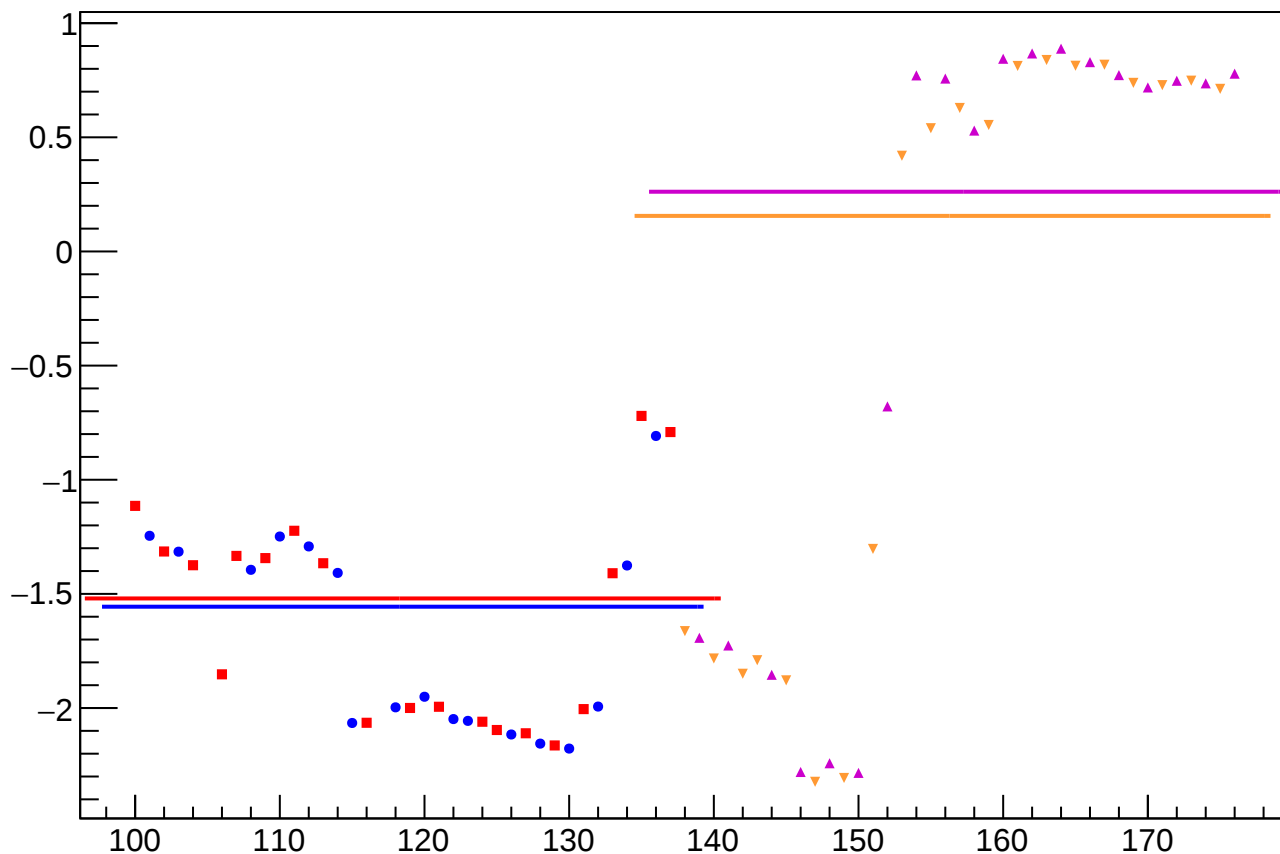
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.008+/-0.000 χ^2/NDF :2653898.1/35

Out: 0.008+/-0.000 χ^2/NDF :2495005.0/38

All: 0.008+/-0.000 χ^2/NDF : 5151094.6/74

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: 0.156+/-0.000 χ^2/NDF : 2365299031551.6/19

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: 0.262+/-0.000 χ^2/NDF : 2180654256051.5/18

Left: 0.208+/-0.000 χ^2/NDF : 4557655387915.1/38

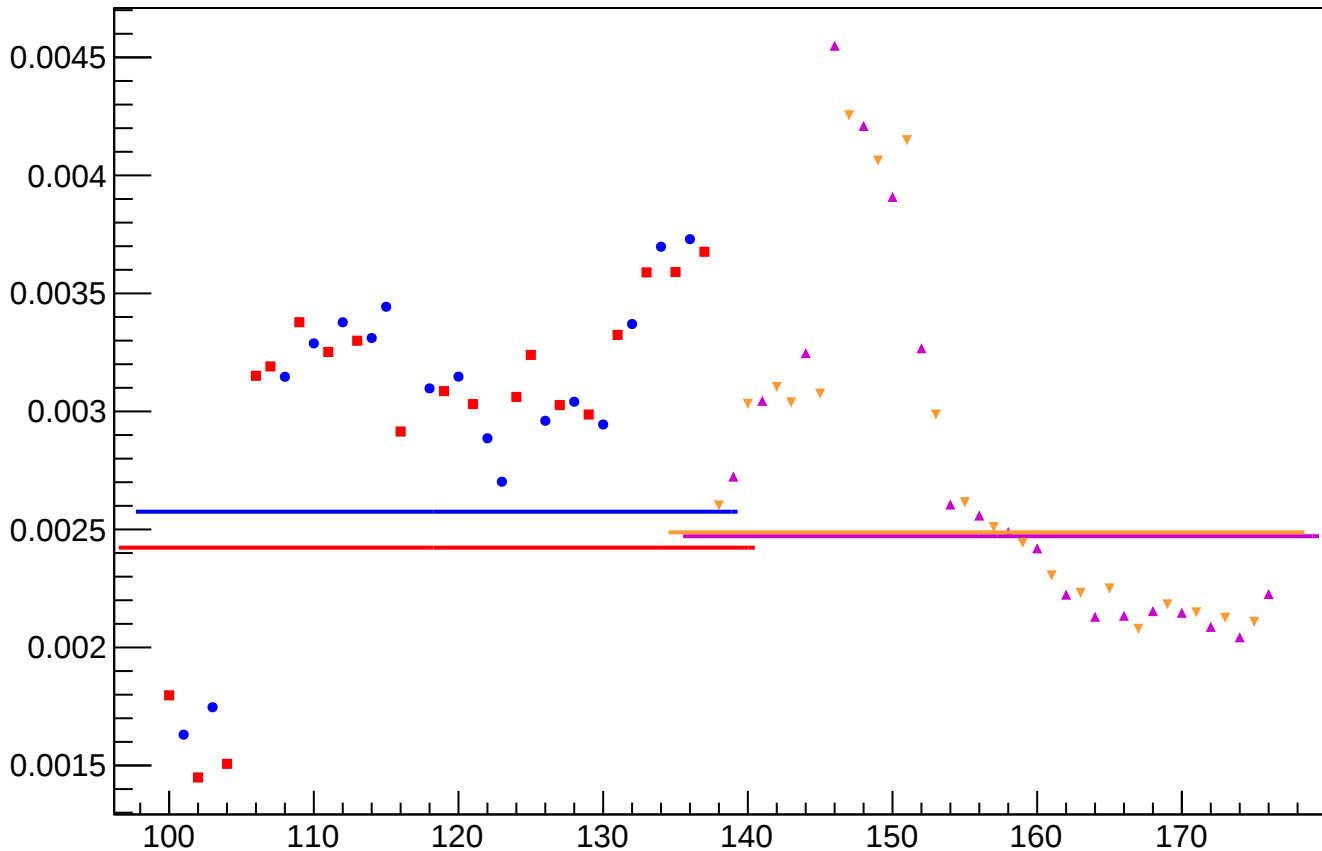
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.269+/-0.000 χ^2/NDF : 4332948199047.6/35

Out: -0.371+/-0.000 χ^2/NDF : 4363849287091.9/38

All: -0.321+/-0.000 χ^2/NDF : 8712431594058

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1013833.9/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1043862.8/19

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 1490134.1/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1131474.8/18

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2175907.9/38

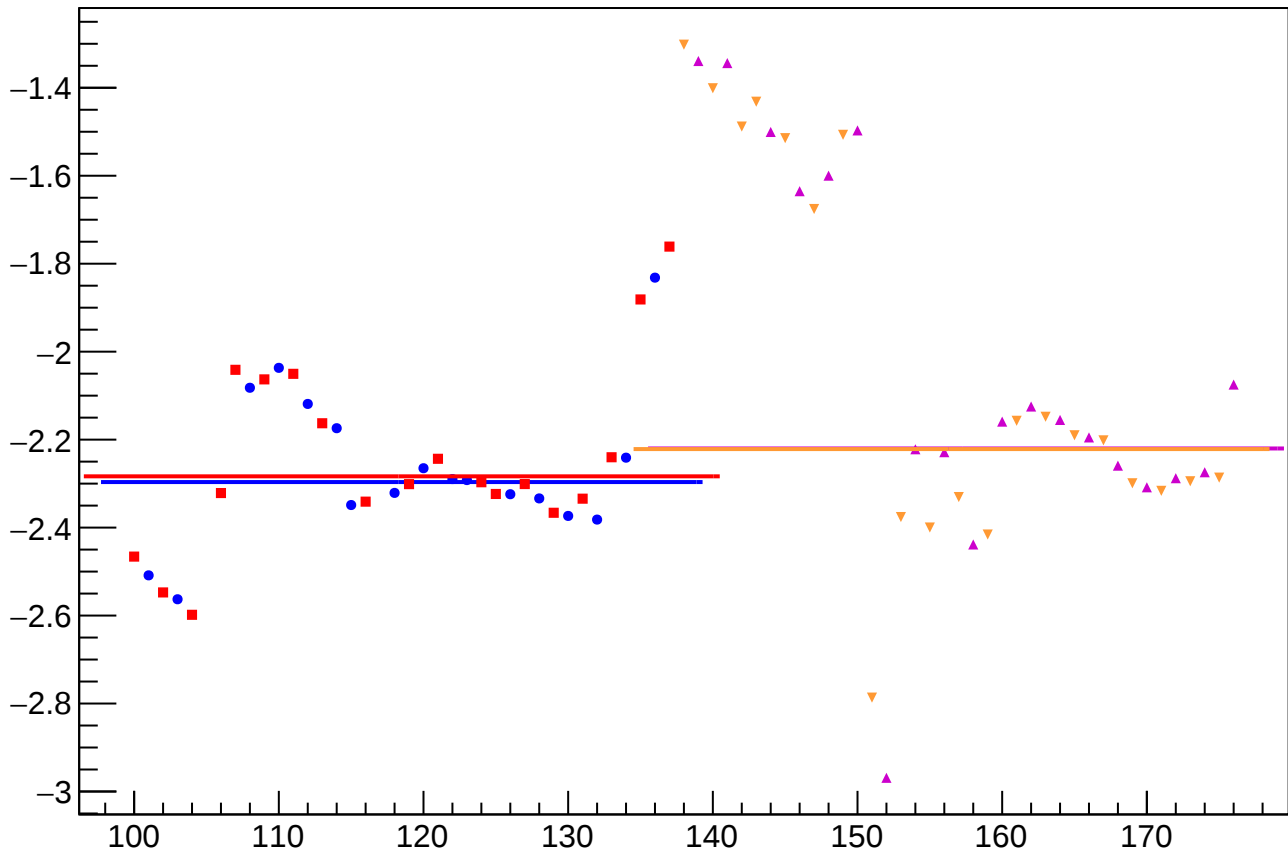
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 2524978.4/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:2158356.2/35

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:2539576.2/38

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 4701435.5/74

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.221+/-0.000 χ^2/NDF : 52576717150.2/19

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: -2.221+/-0.000 χ^2/NDF : 120574557835.0/38

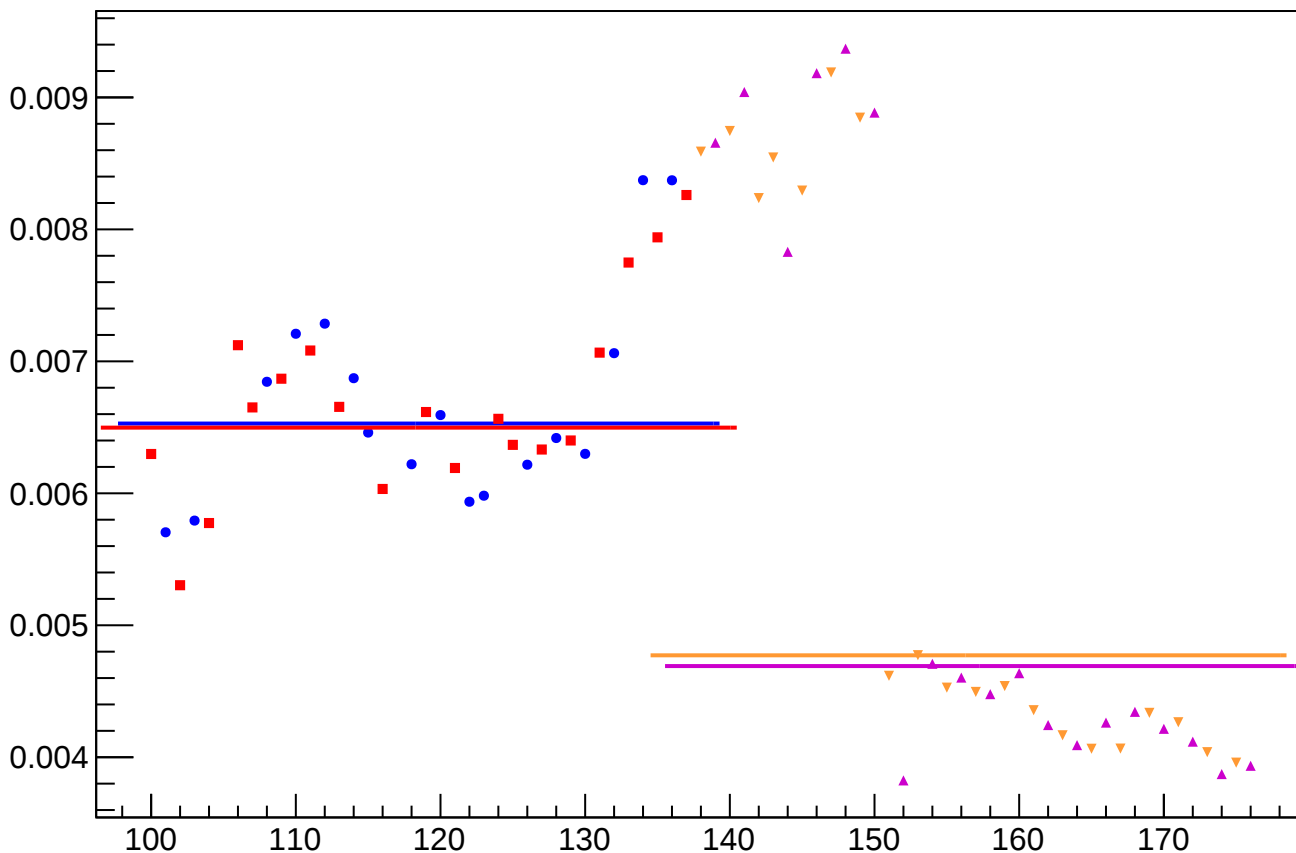
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.236+/-0.000 χ^2/NDF : 74484039648.2/35

Out: -2.235+/-0.000 χ^2/NDF : 59610053899.0/38

All: -2.235+/-0.000 χ^2/NDF : 134094422768.9

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.005+/-0.000 χ^2/NDF :2219532.2/19

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF :2330732.1/18

Left: 0.005+/-0.000 χ^2/NDF : 4554170.0/38

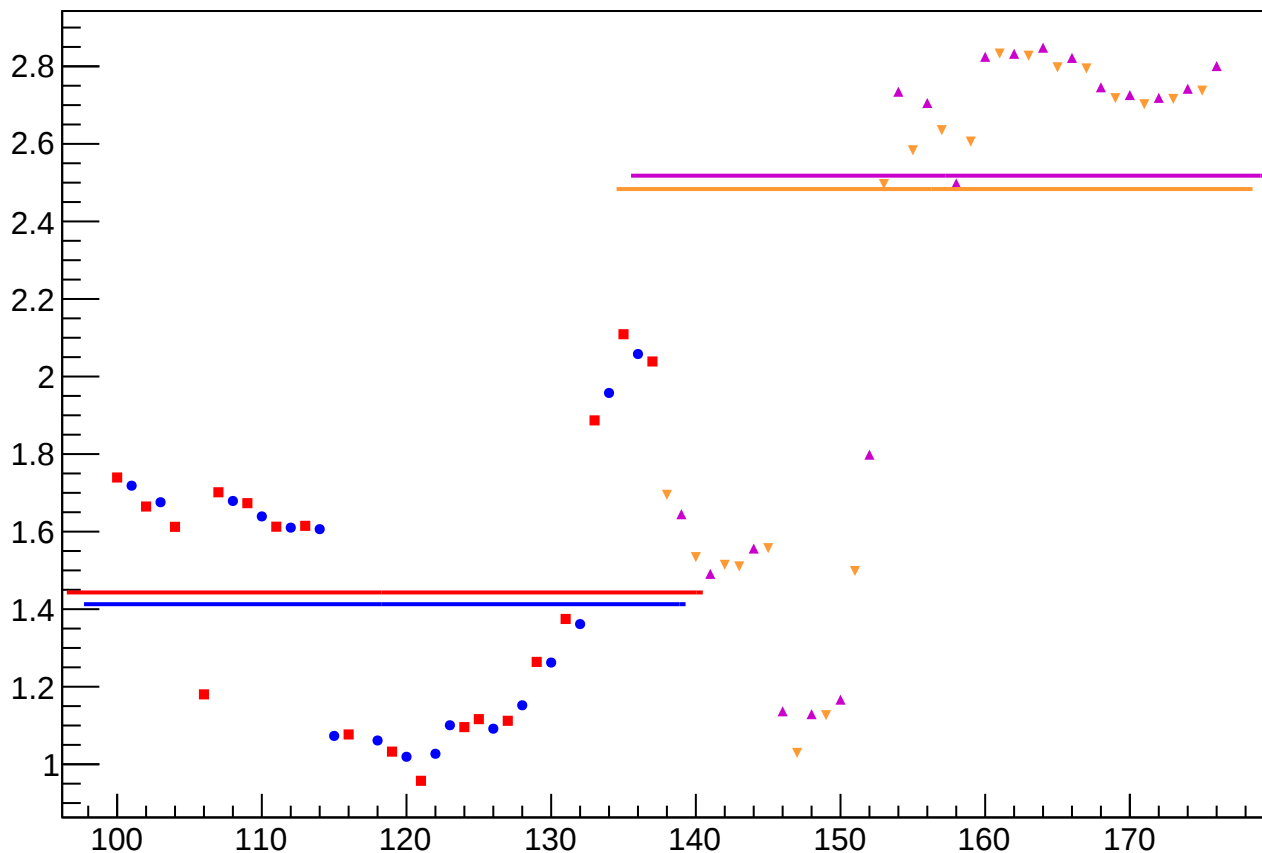
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF :3322382.8/35

Out: 0.005+/-0.000 χ^2/NDF :3134935.5/38

All: 0.005+/-0.000 χ^2/NDF : 6461646.4/74

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.484+/-0.000 χ^2/NDF : 245735790976.4/19

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: 2.501+/-0.000 χ^2/NDF : 491734215432.6/38

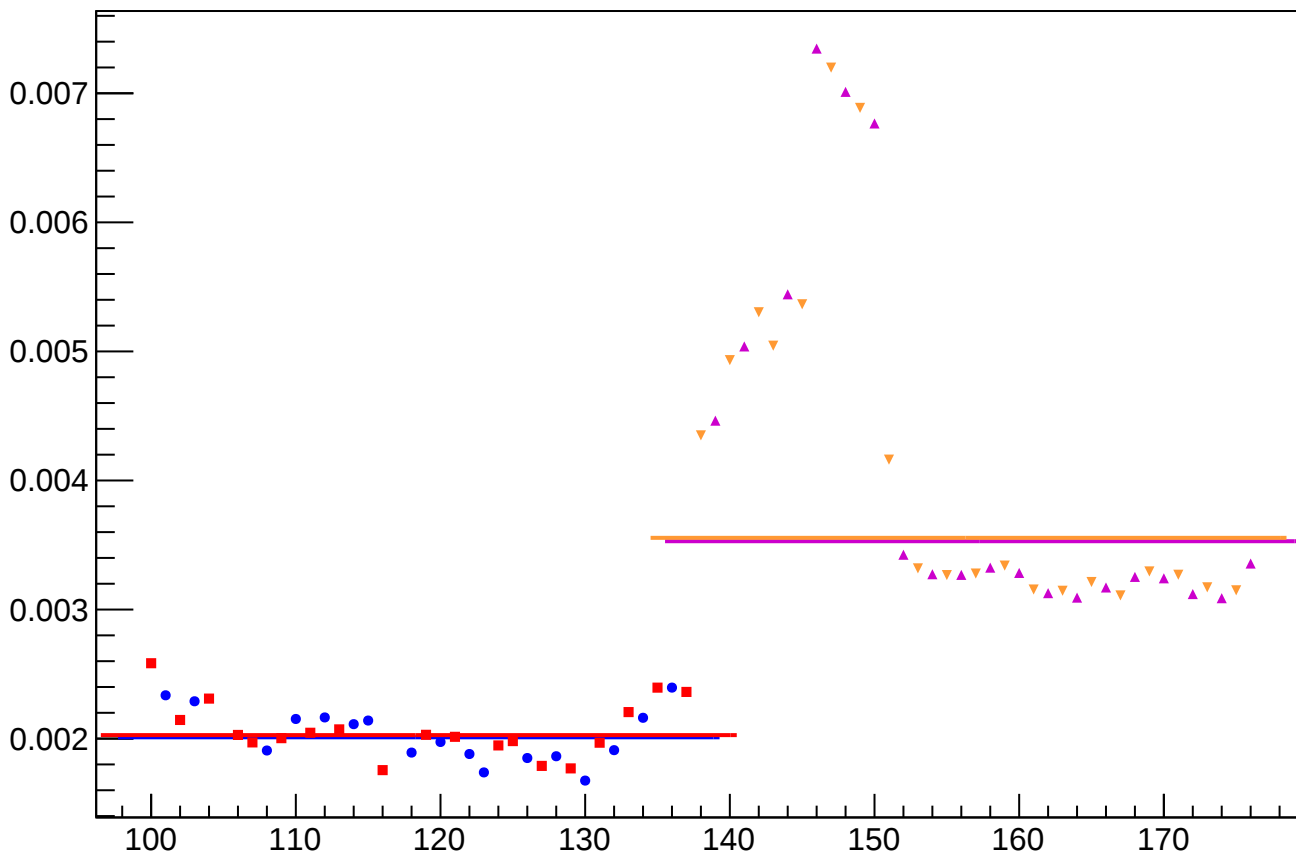
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.861+/-0.000 χ^2/NDF : 1174370451912.1/35

Out: 1.861+/-0.000 χ^2/NDF : 1105761402455.1/38

All: 1.861+/-0.000 χ^2/NDF : 2280131921458.

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 :1350189.7/19

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 : 2886741.2/38

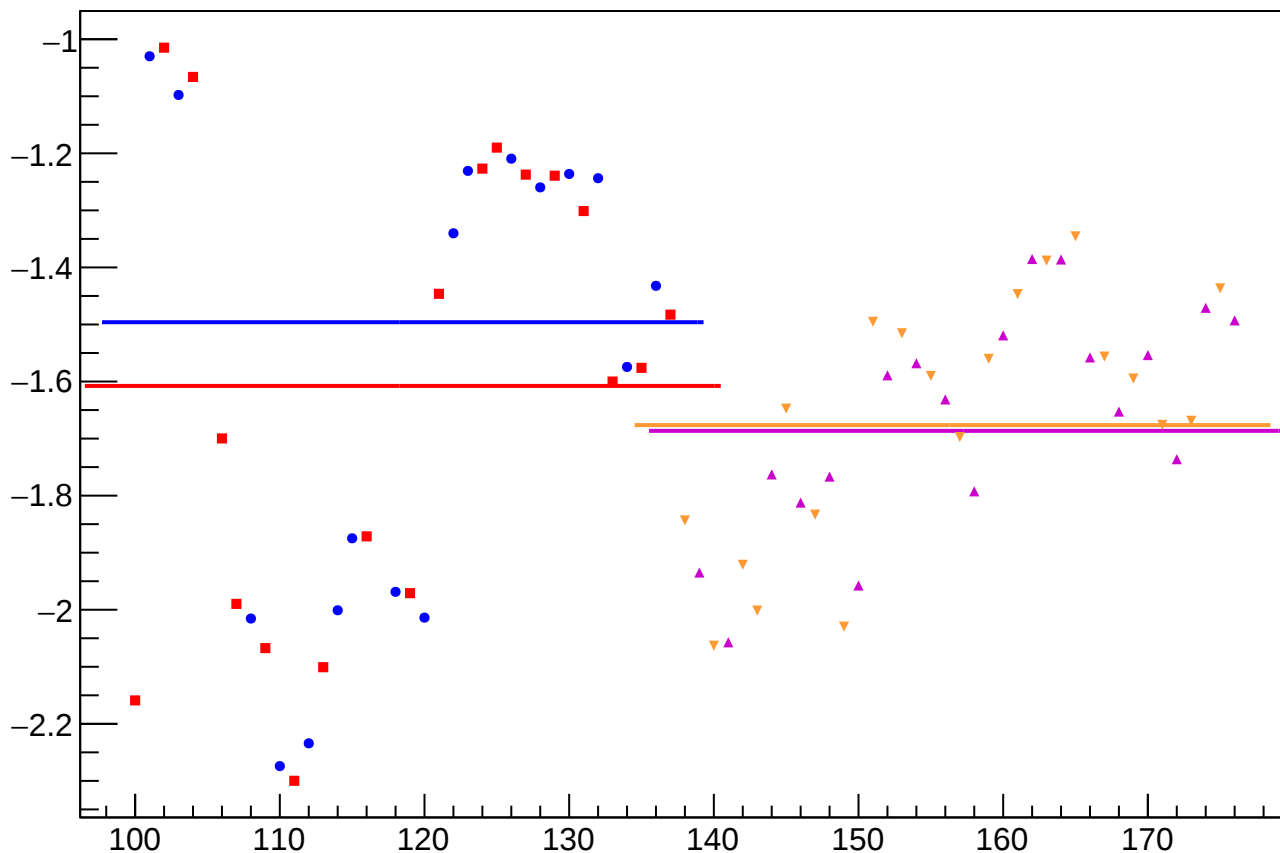
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4547480.5/35

Out: 0.003+/-0.000 χ^2/NDF :4418410.2/38

All: 0.003+/-0.000 χ^2/NDF : 8966490.1/74

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.676+/-0.000 χ^2/NDF : 16900357640.1/19

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: -1.681+/-0.000 χ^2/NDF : 29827392273.9/38

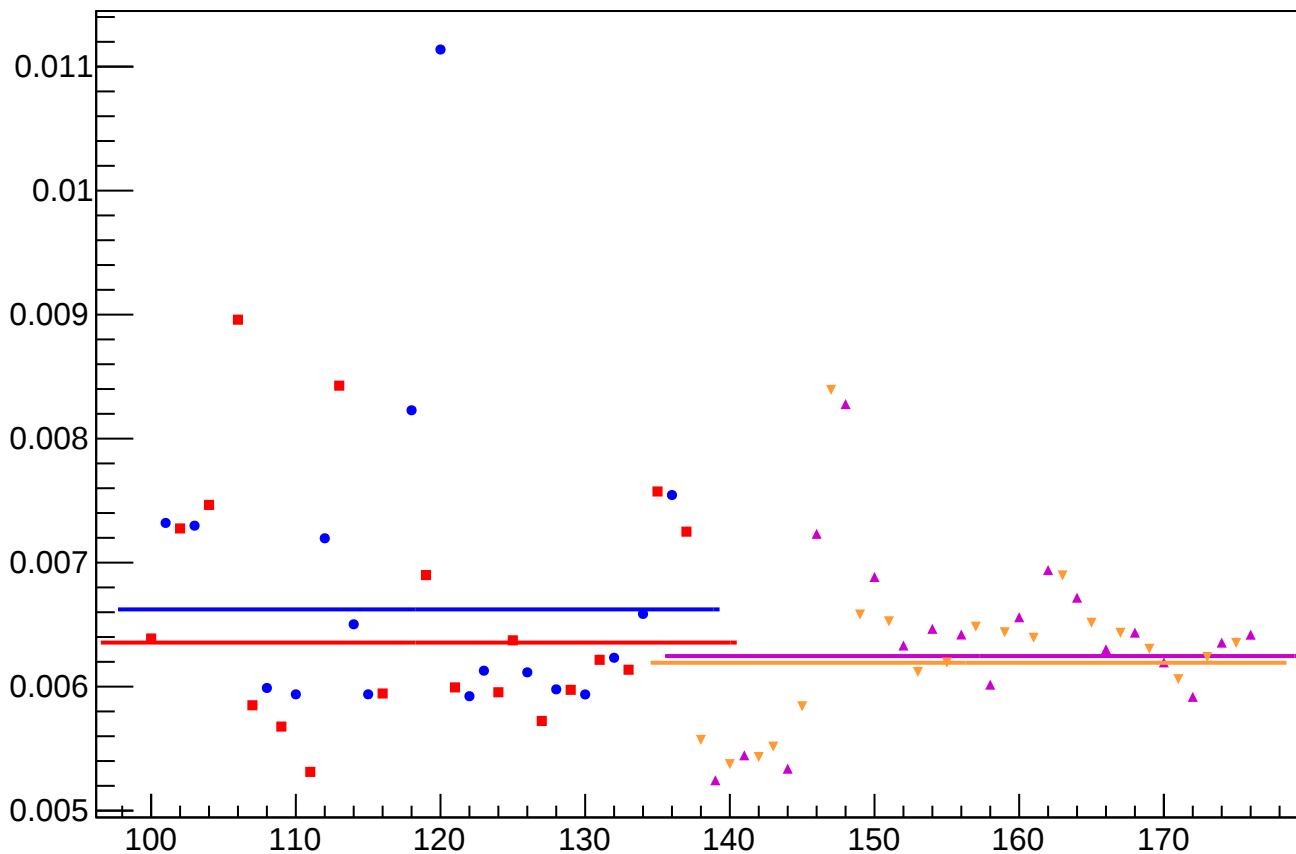
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.633+/-0.000 χ^2/NDF : 39048280480.5/35

Out: -1.655+/-0.000 χ^2/NDF : 45270647114.0/38

All: -1.645+/-0.000 χ^2/NDF : 84449834157.8/82

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 :228286.6/19

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 : 523515.1/38

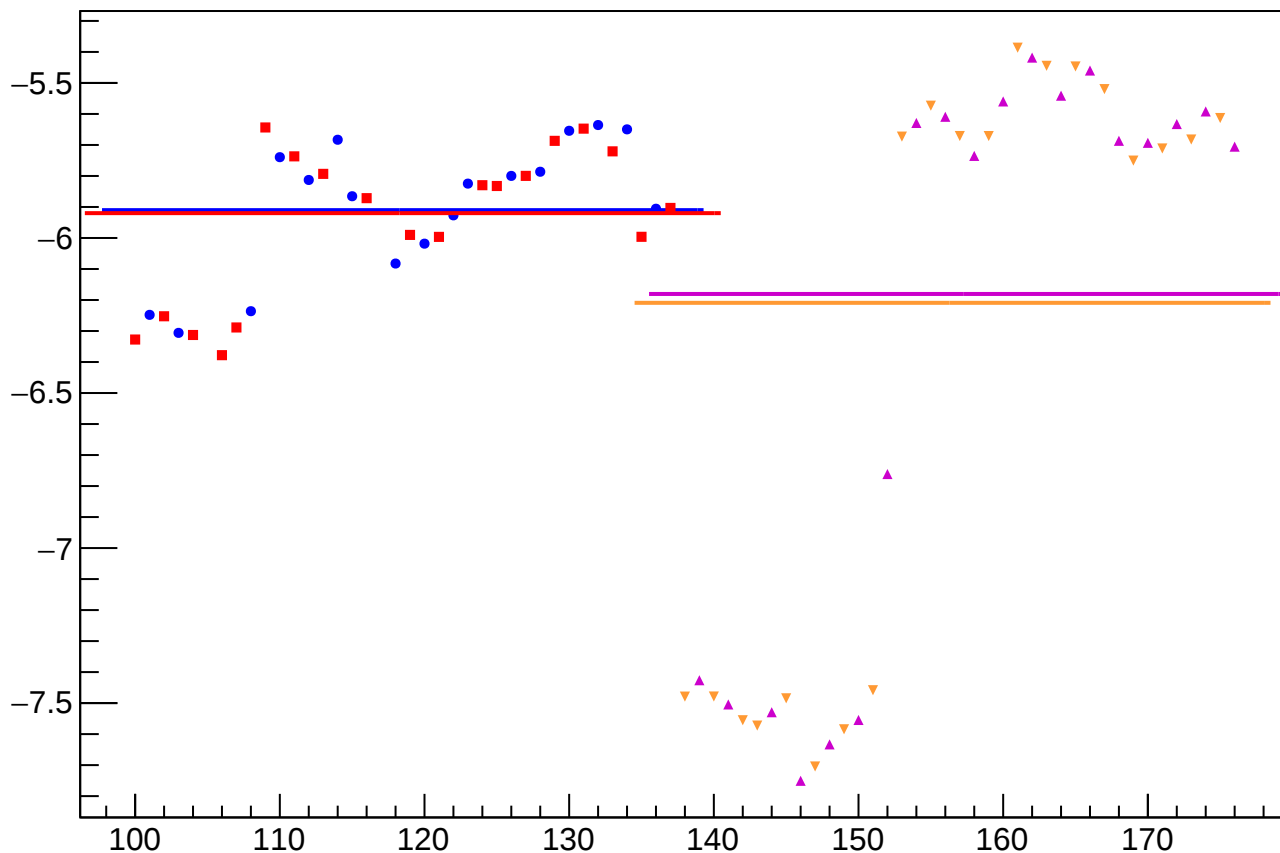
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :554995.1/35

Out: 0.006+/-0.000 χ^2/NDF :462150.6/38

All: 0.006+/-0.000 χ^2/NDF : 1023398.9/74

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.209+/-0.000 χ^2/NDF : 176670646822.2/19

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: -6.195+/-0.000 χ^2/NDF : 329889891799.7/38

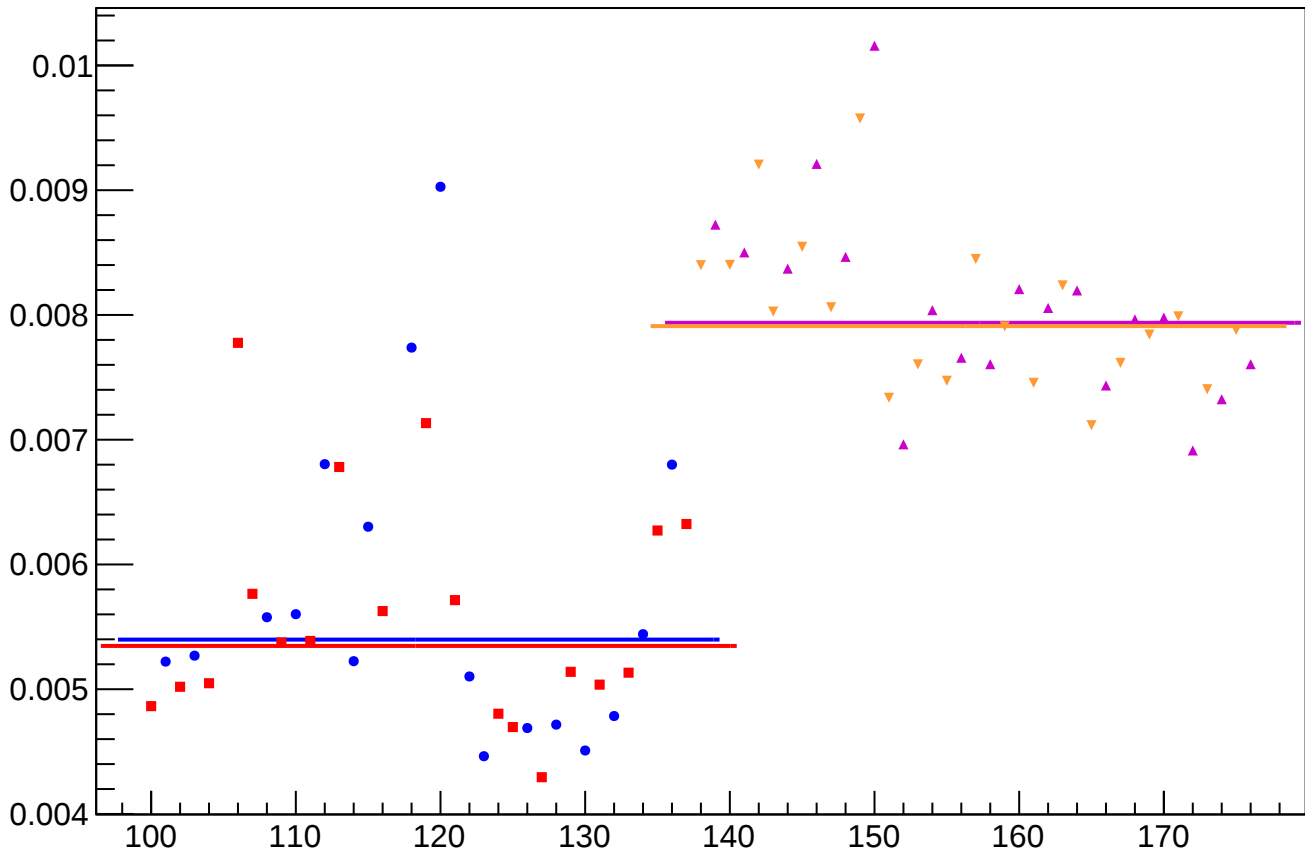
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.048+/-0.000 χ^2/NDF : 171840195438.8/35

Out: -6.062+/-0.000 χ^2/NDF : 198593467922.6/38

All: -6.055+/-0.000 χ^2/NDF : 370473882096.8

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :123149.1/19

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 : 327334.3/38

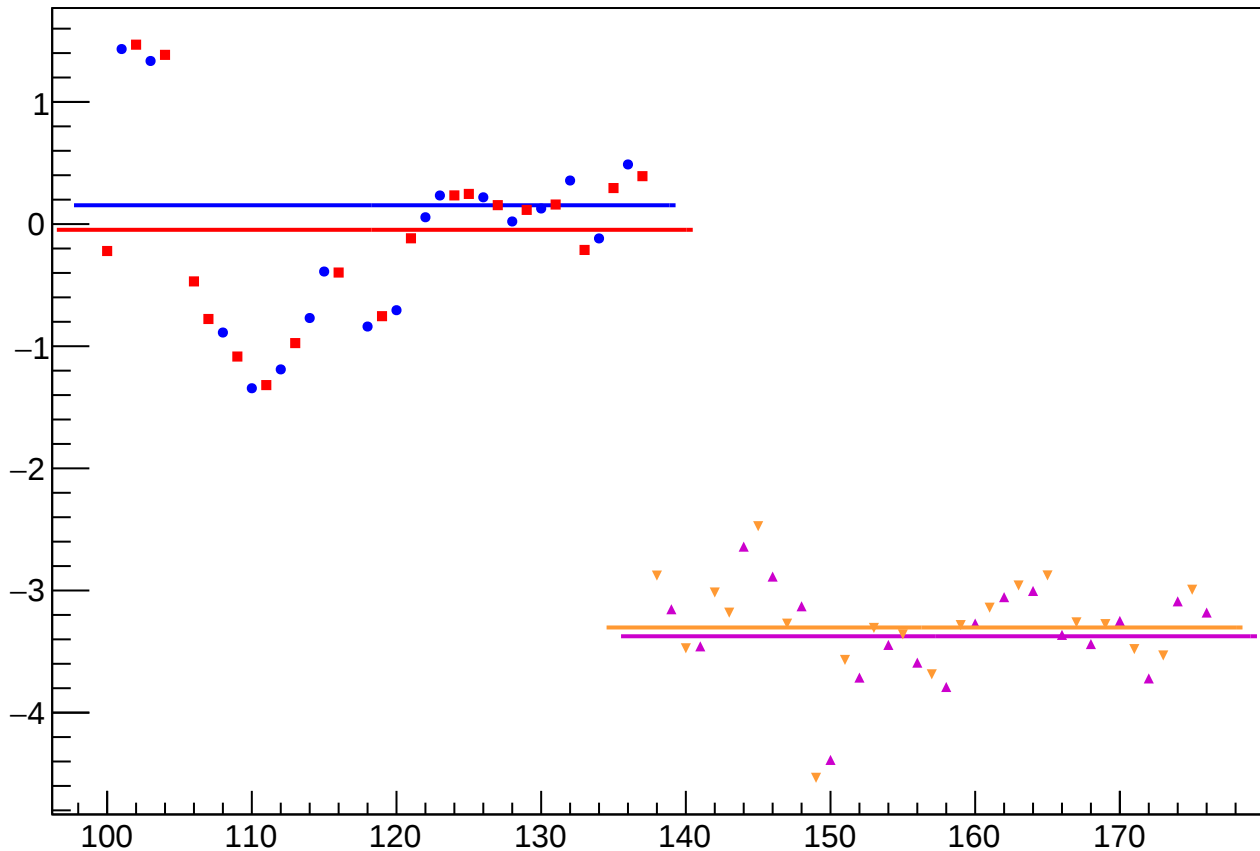
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1908375.4/35

Out: 0.007+/-0.000 χ^2/NDF :1808089.0/38

All: 0.007+/-0.000 χ^2/NDF : 3719735.3/74

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.303+/-0.000 χ^2/NDF : 8557978219.7/19

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: -3.338+/-0.000 χ^2/NDF : 16438999179.4/38

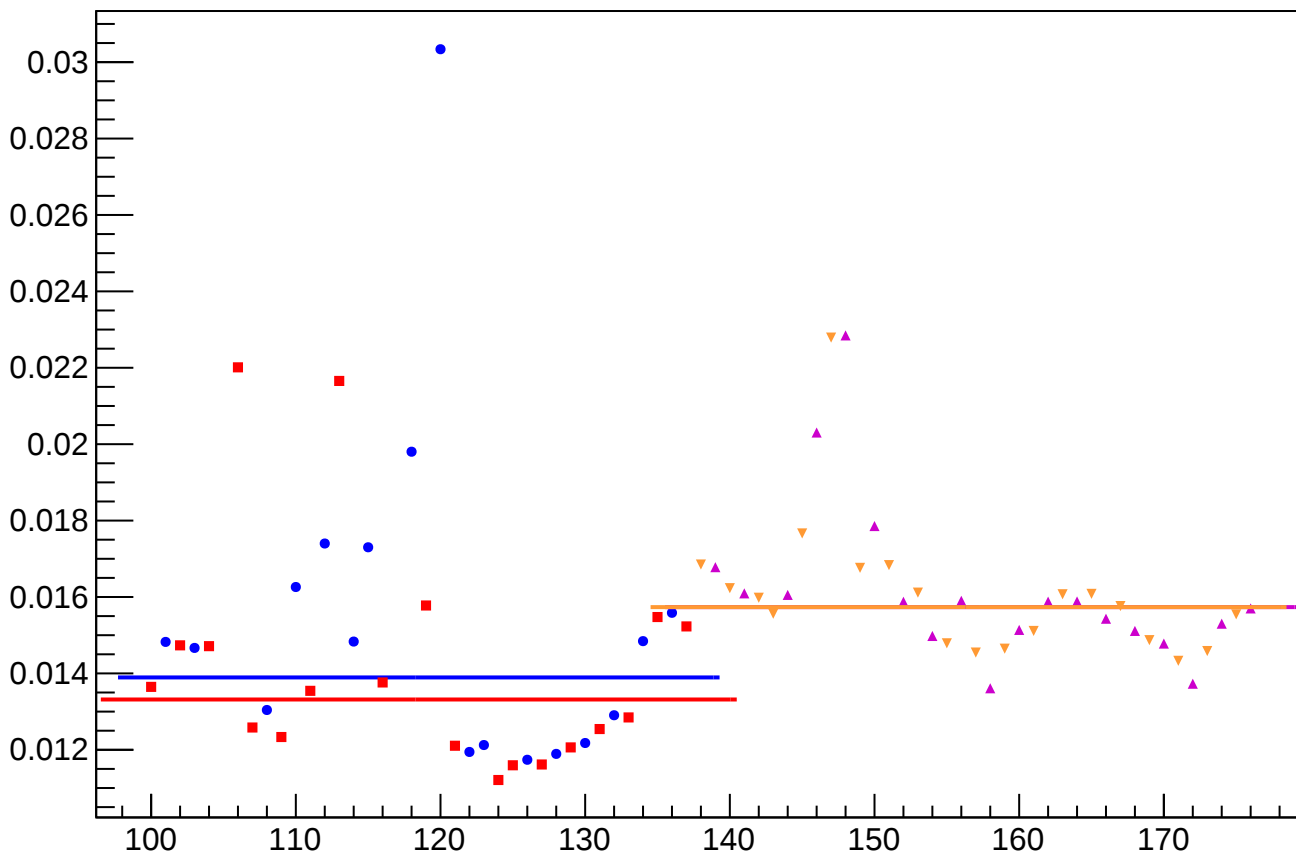
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.131+/-0.000 χ^2/NDF : 272050356807.0/35

Out: -2.047+/-0.000 χ^2/NDF : 266916681335.1/38

All: -2.087+/-0.000 χ^2/NDF : 539290469468.2

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :231670.8/19

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 : 559685.8/38

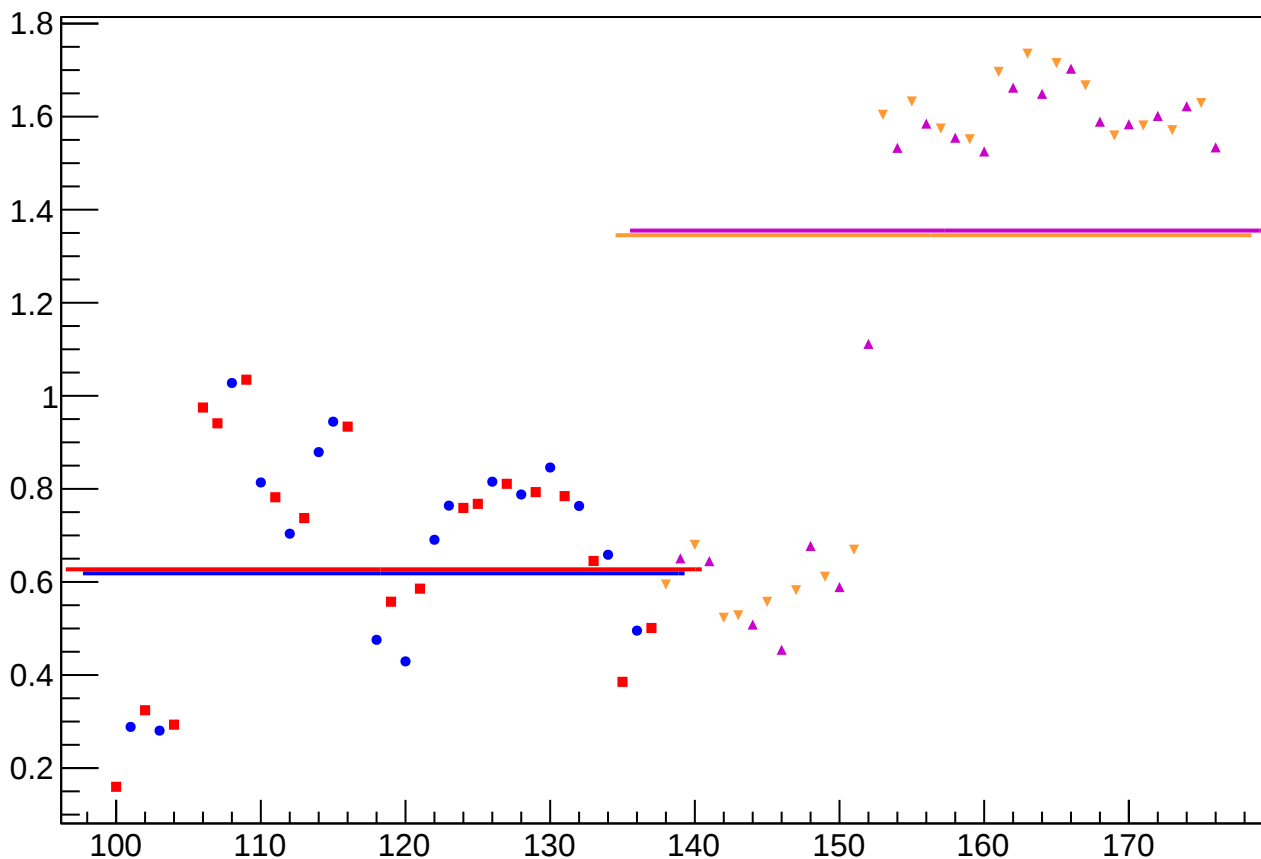
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :863172.1/35

Out: 0.015+/-0.000 χ^2/NDF :784589.2/38

All: 0.015+/-0.000 χ^2/NDF : 1655086.0/74

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.345+/-0.000 χ^2/NDF : 72004675203.6/19

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: 1.350+/-0.000 χ^2/NDF : 134447397062.5/38

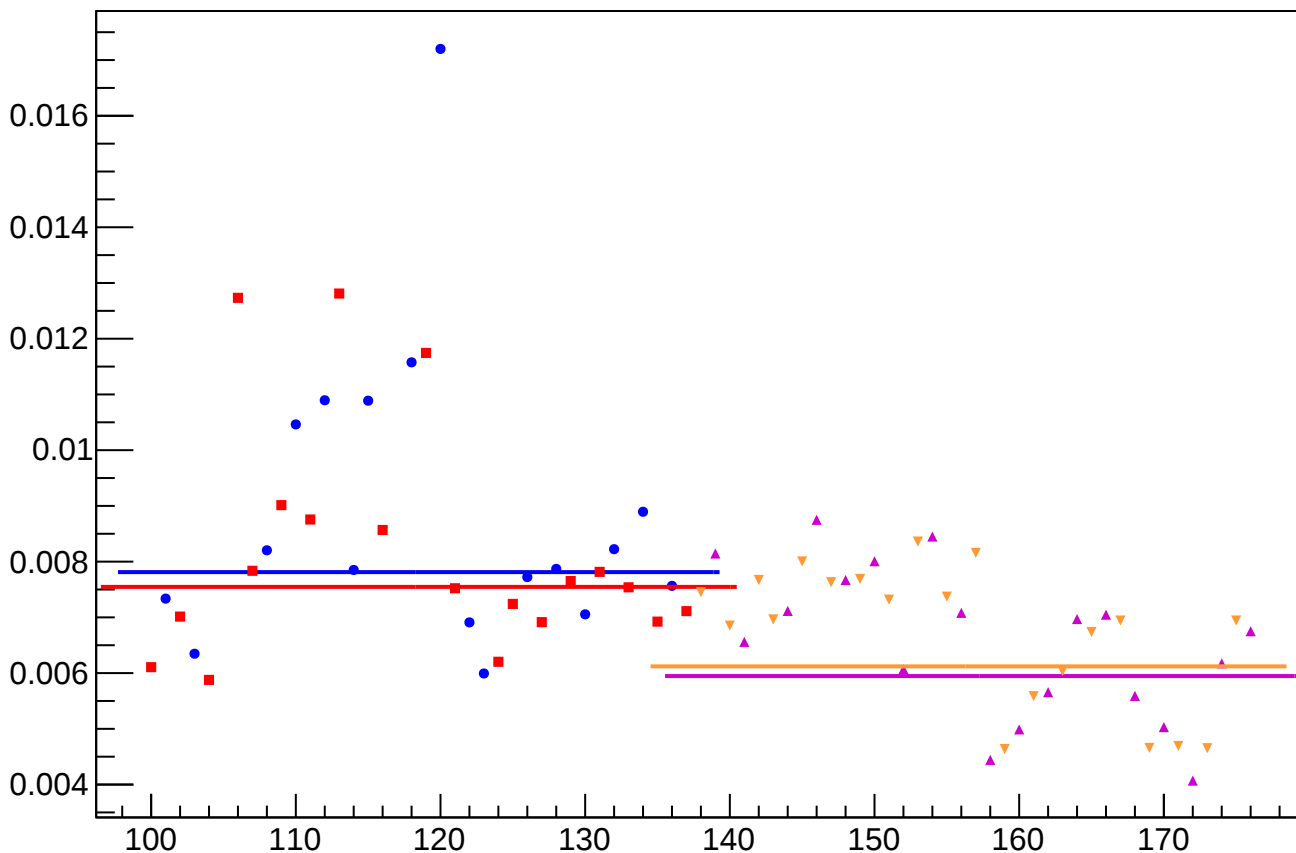
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.205+/-0.000 χ^2/NDF : 109063021839.2/35

Out: 1.177+/-0.000 χ^2/NDF : 121298243318.6/38

All: 1.192+/-0.000 χ^2/NDF : 230543963155.3

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 :1242480.4/19

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 : 2571314.5/38

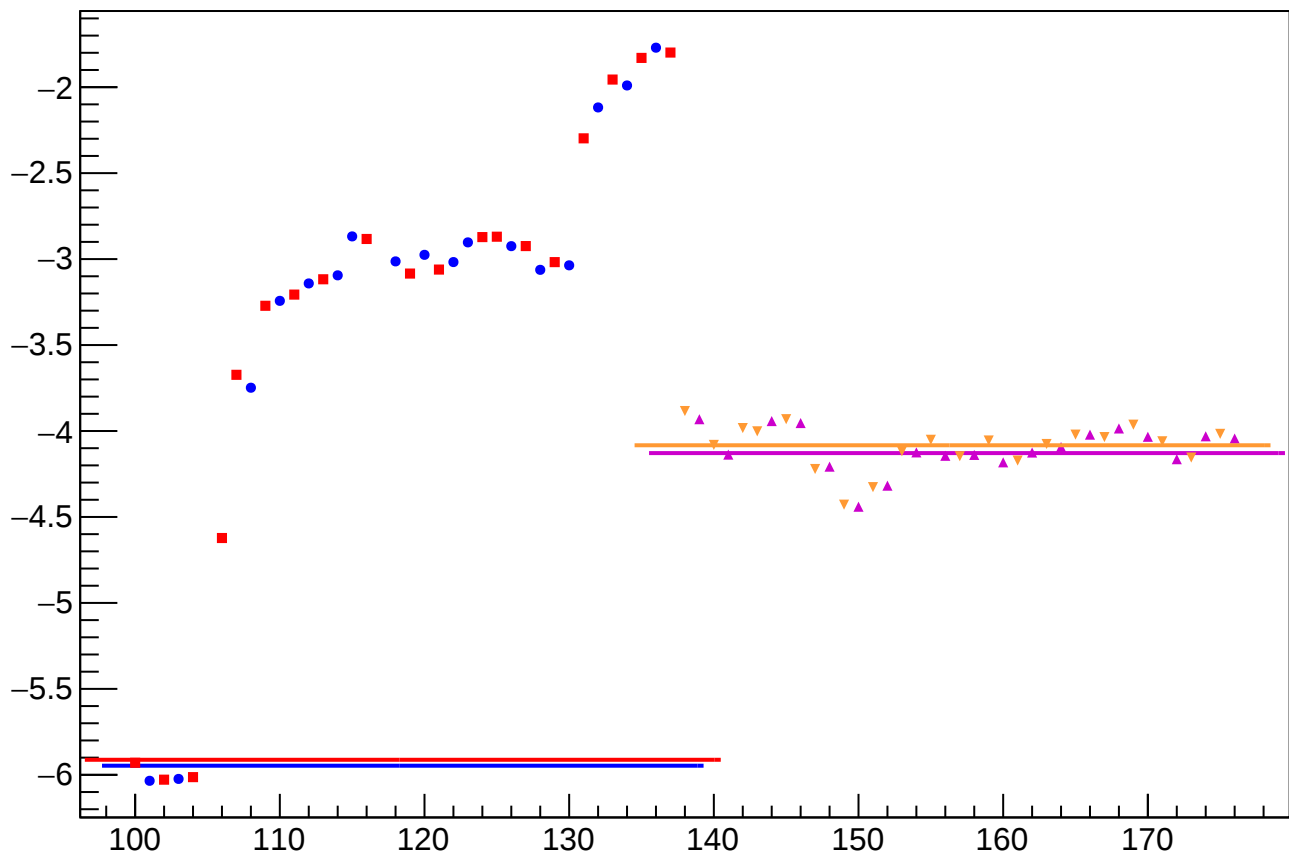
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2313084.9/35

Out: 0.006+/-0.000 χ^2/NDF :2023286.3/38

All: 0.006+/-0.000 χ^2/NDF : 4344024.6/74

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.083+/-0.000 χ^2/NDF : 34945262.1/19

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.129+/-0.000 χ^2/NDF : 26410445.0/18

Left: -4.106+/-0.000 χ^2/NDF : 63573713.3/38

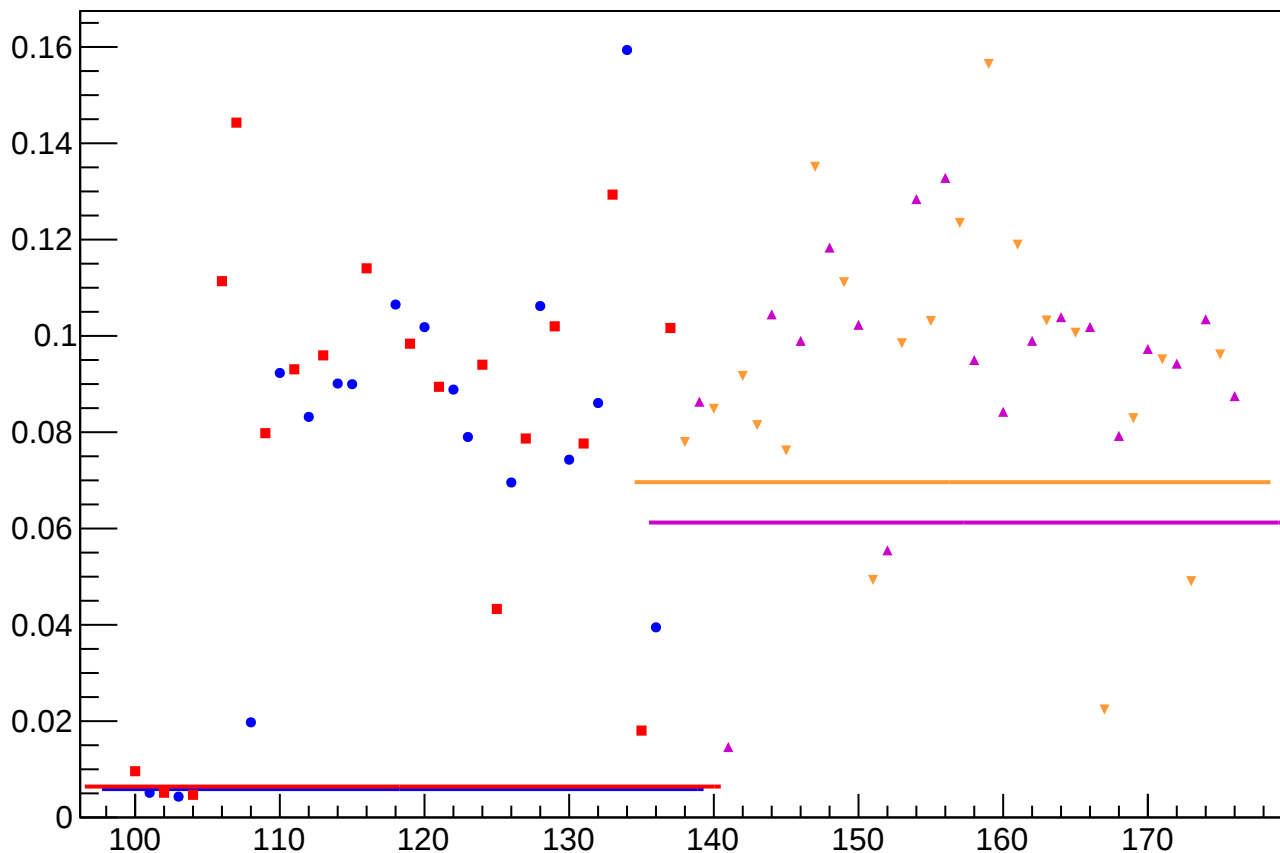
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.866+/-0.000 χ^2/NDF : 20180619705.7/35

Out: -5.818+/-0.000 χ^2/NDF : 21243605129.2/38

All: -5.844+/-0.000 χ^2/NDF : 41474822179.4/73

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.070+/-0.000 χ^2/NDF : 4831663.7/19

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: 0.065+/-0.000 χ^2/NDF : 12257117.5/38

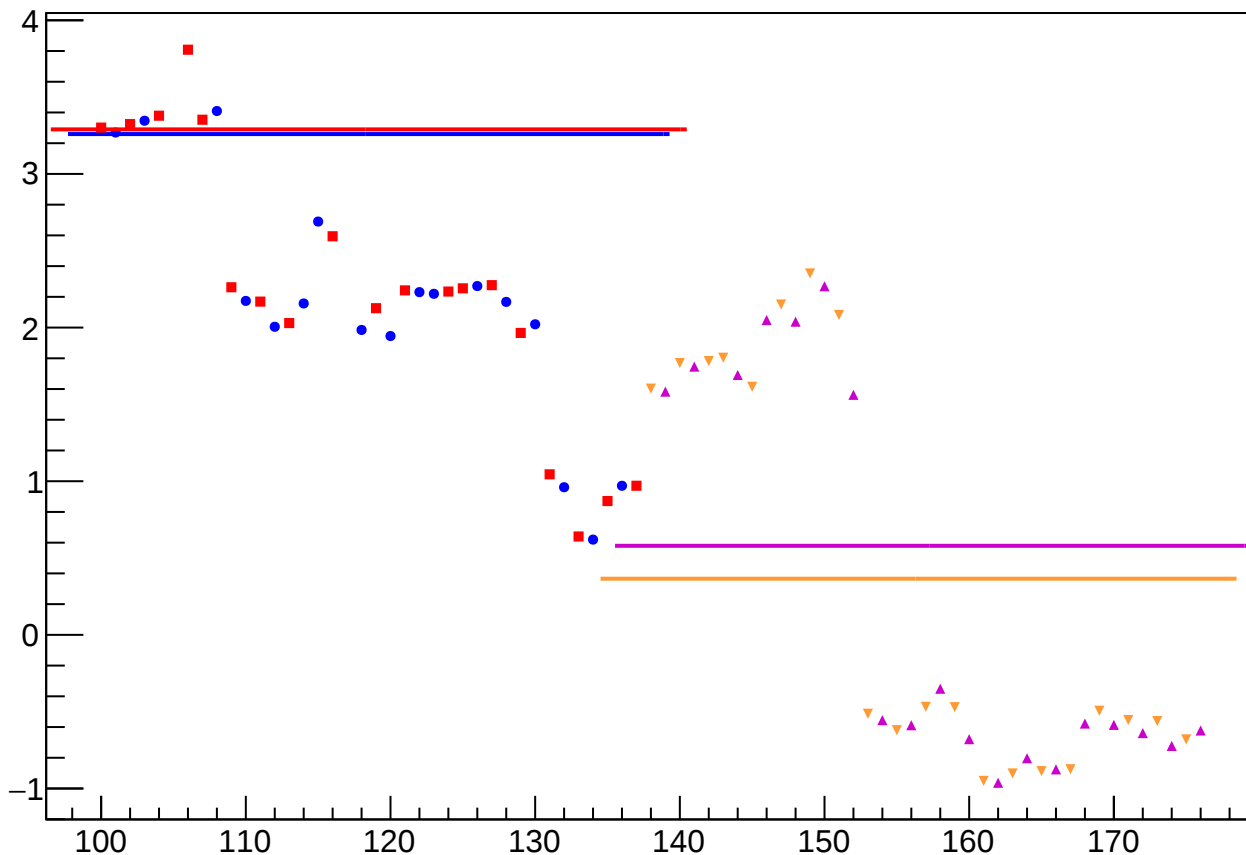
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 28159383.8/35

Out: 0.010+/-0.000 χ^2/NDF : 29062771.5/38

All: 0.009+/-0.000 χ^2/NDF : 57299232.9/74

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 0.366+/-0.000 χ^2/NDF :2931966112.4/19

Right Out: 3.290+/-0.000 χ^2/NDF : 3262231575.5/18

Left In: 0.580+/-0.000 χ^2/NDF :2402051300.6/18

Left: 0.467+/-0.000 χ^2/NDF : 5372405722.7/38

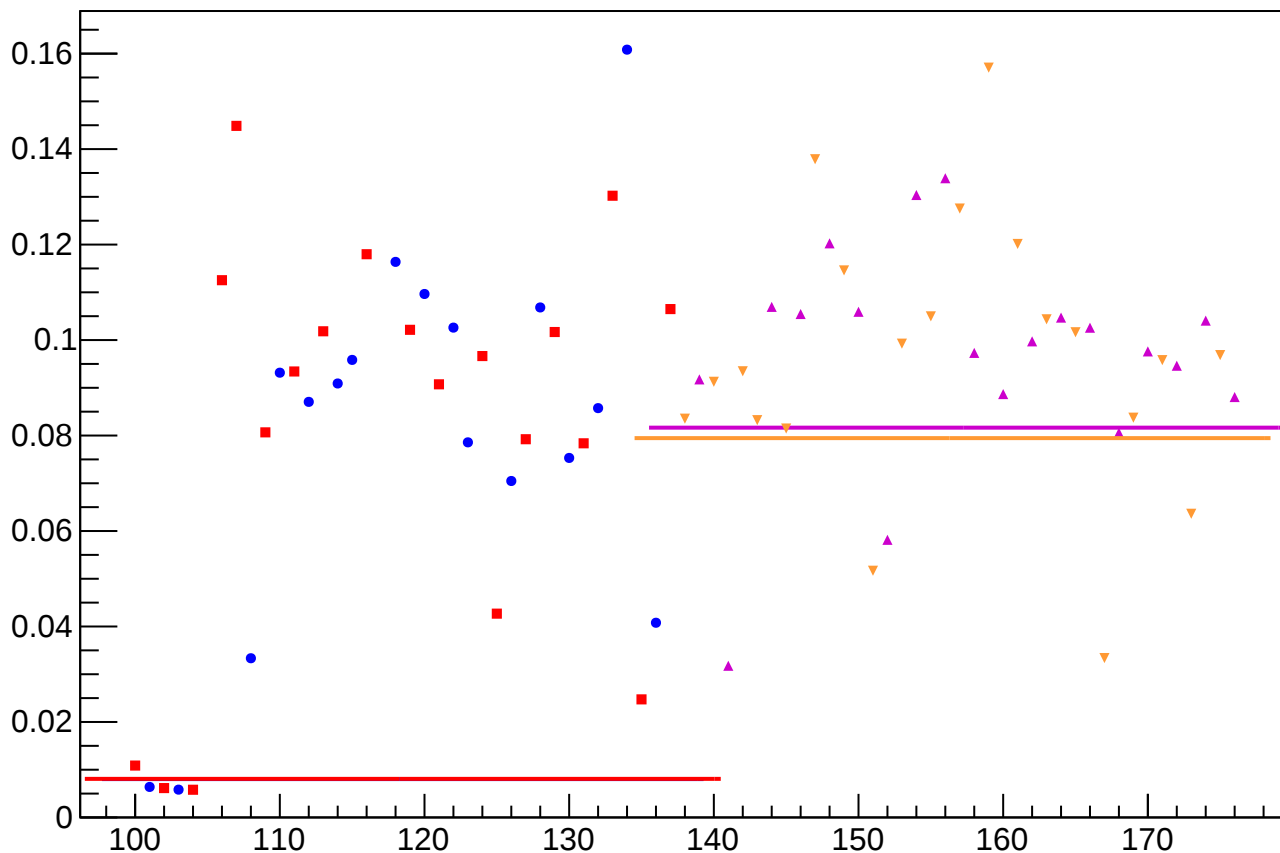
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.118+/-0.000 χ^2/NDF :16198957555.1/35

Out: 3.108+/-0.000 χ^2/NDF :20305717250.4/38

All: 3.113+/-0.000 χ^2/NDF : 36506346034.0/74

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.079+/-0.000 χ^2/NDF : 3111917.2/19

Right Out: 0.008+/-0.000 χ^2/NDF : 8309426.5/18

Left In: 0.082+/-0.000 χ^2/NDF : 2908893.1/18

Left: 0.081+/-0.000 χ^2/NDF : 6028858.1/38

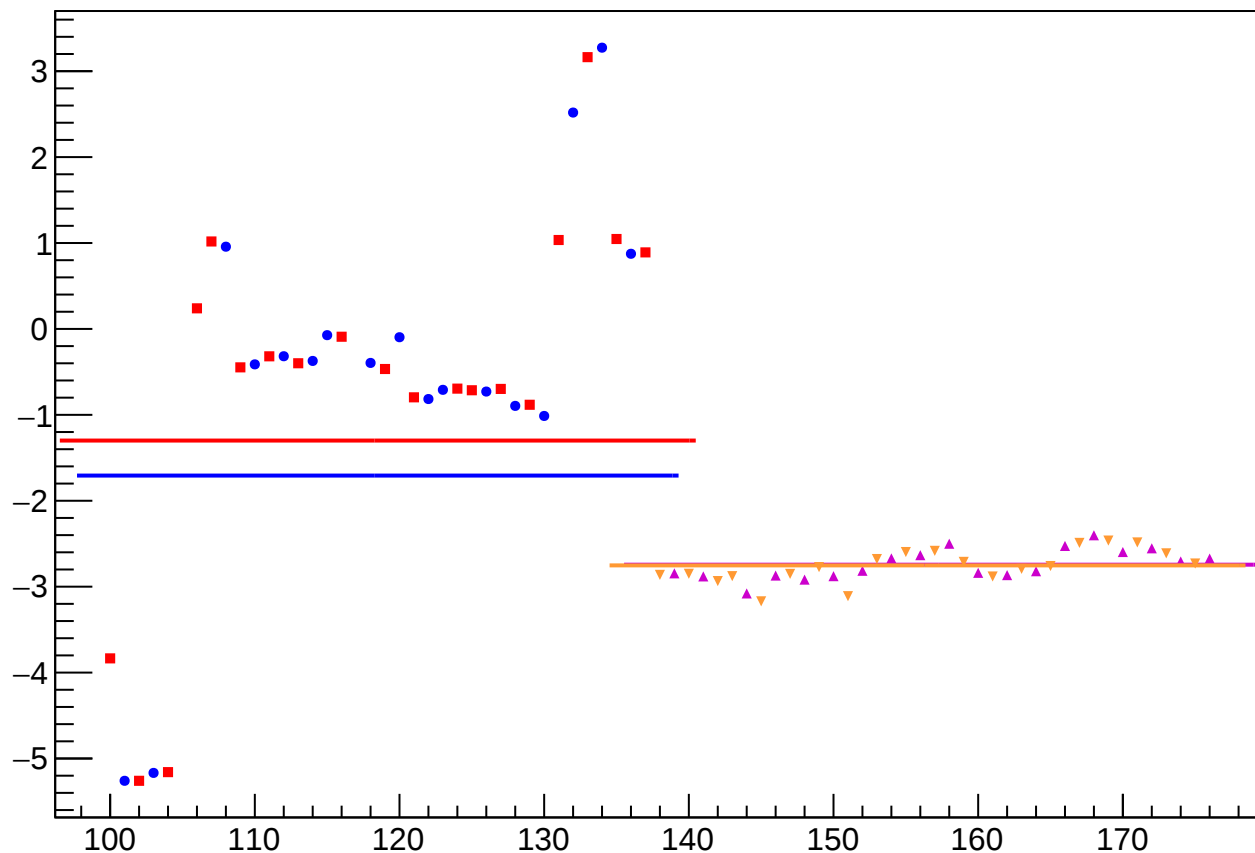
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.012+/-0.000 χ^2/NDF : 27062525.6/35

Out: 0.013+/-0.000 χ^2/NDF : 28234047.5/38

All: 0.012+/-0.000 χ^2/NDF : 55307743.9/74

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.752+/-0.000 χ^2/NDF : 8643912050.1/19

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: -2.748+/-0.000 χ^2/NDF : 15757366219.1/38

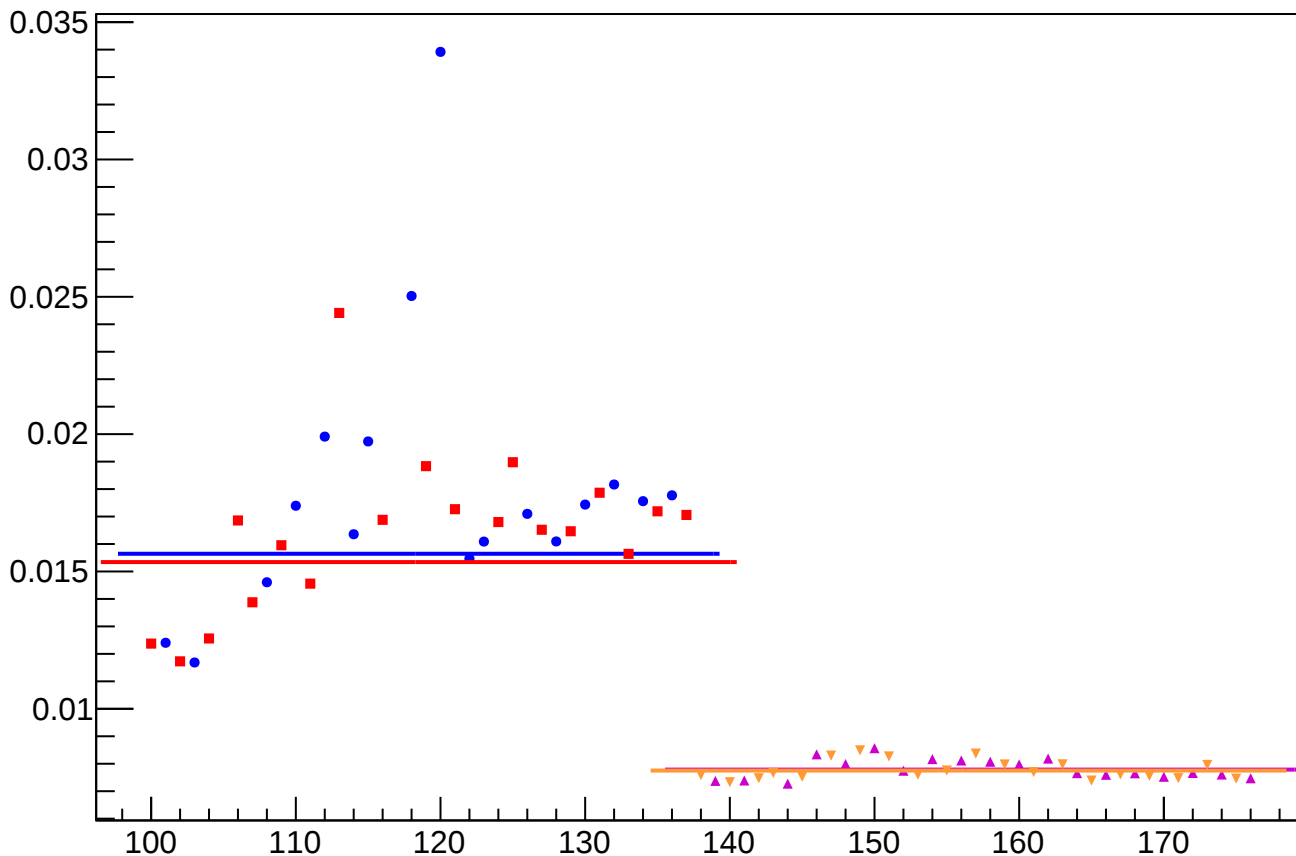
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.651+/-0.000 χ^2/NDF : 195660899906.9/35

Out: -2.608+/-0.000 χ^2/NDF : 236767215633.1/38

All: -2.629+/-0.000 χ^2/NDF : 432665067610.3

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.015+/-0.000 χ^2/NDF : 52882.8/19

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 : 111101.6/38

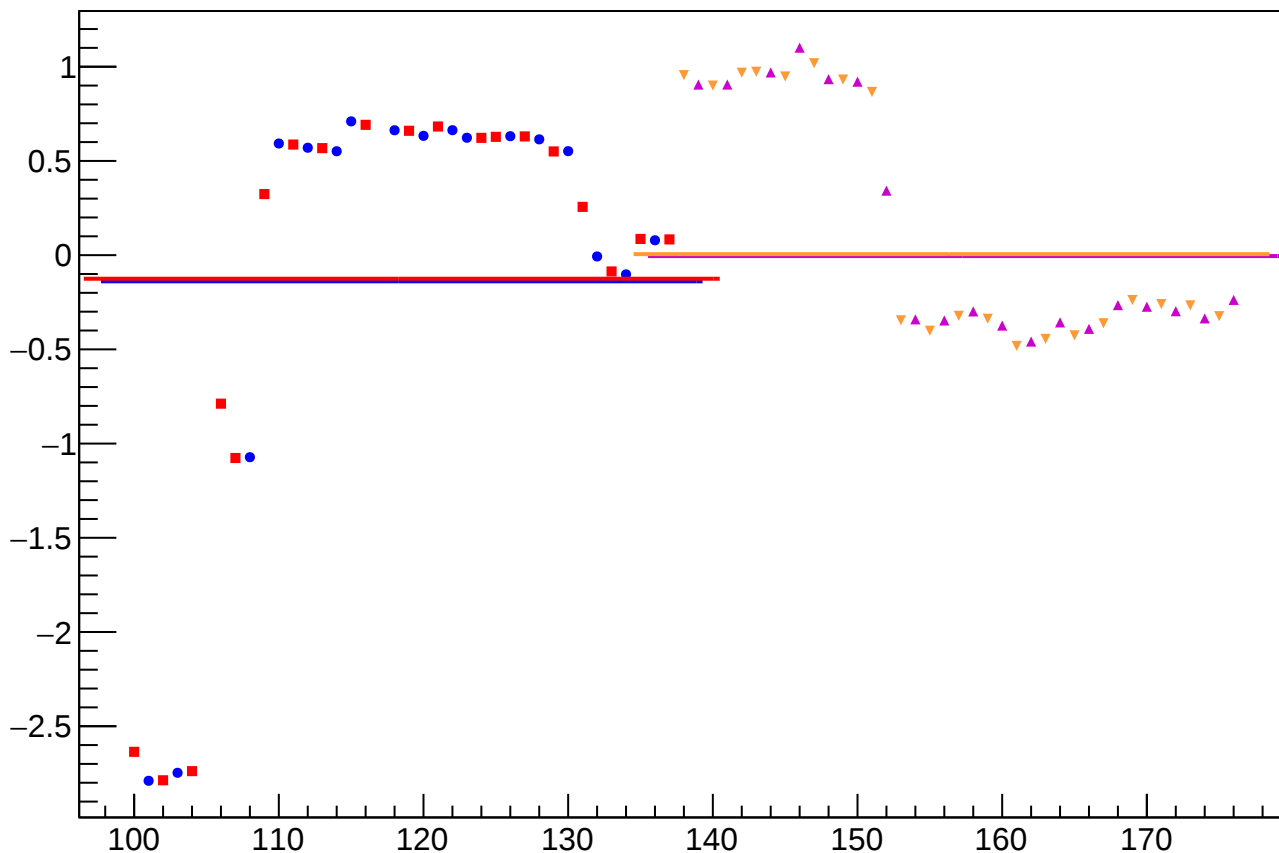
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.008+/-0.000 χ^2/NDF : 3210943.3/35

Out: 0.009+/-0.000 χ^2/NDF : 3140761.5/38

All: 0.008+/-0.000 χ^2/NDF : 6351738.0/74

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: 0.000+/-0.000 χ^2/NDF : 242736394662.5/38

Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

Left Out: 0.005+/-0.000

χ^2/NDF : 130923601449.9/19

In: -0.081+/-0.000 χ^2/NDF : 830816209486.6/35

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

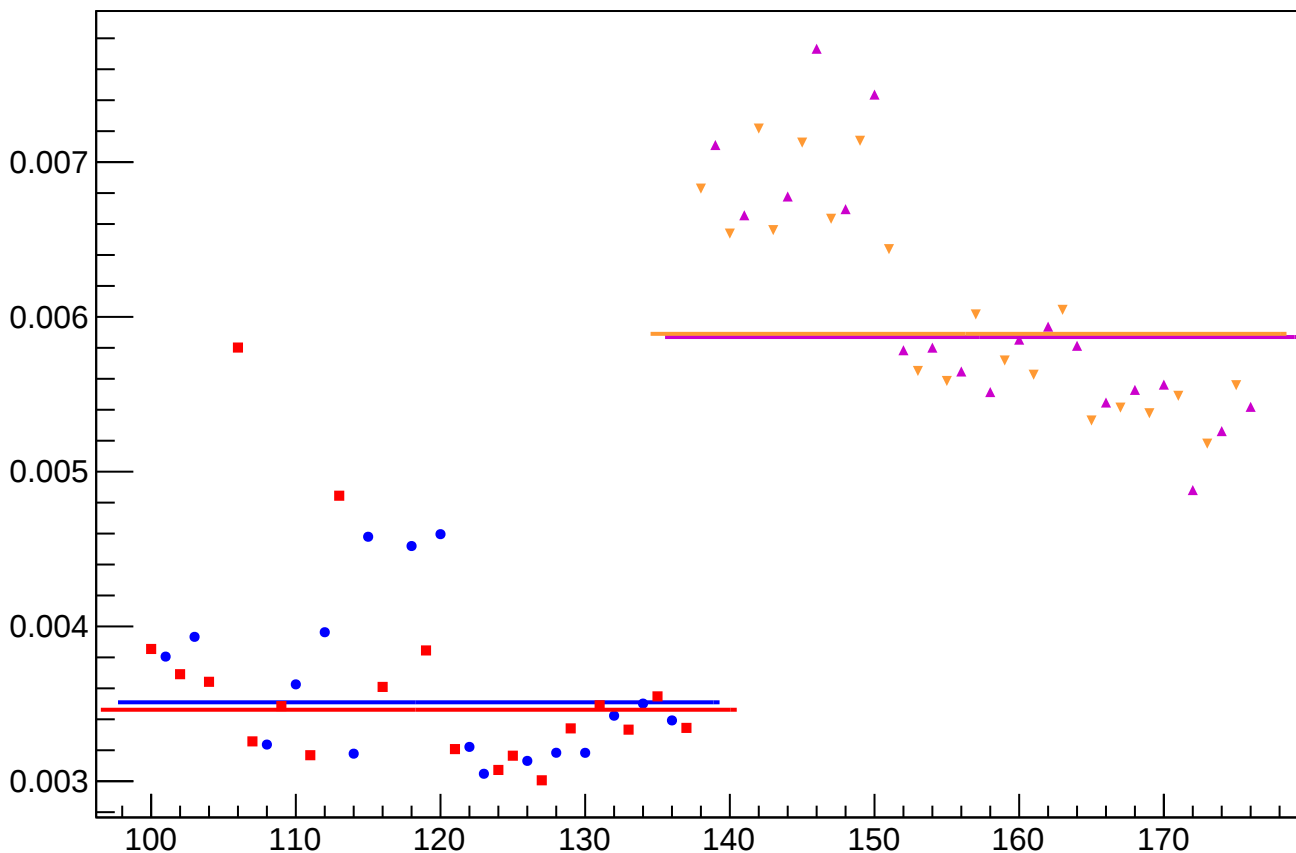
Out: -0.071+/-0.000 χ^2/NDF : 896356031793.9/38

Left In: -0.005+/-0.000

χ^2/NDF : 111792289335.8/18

All: -0.076+/-0.000 χ^2/NDF : 1727213967743

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171337.9/16

Left Out: 0.006+/-0.000 χ^2/NDF :274970.3/19

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF :362418.4/18

Left: 0.006+/-0.000 χ^2/NDF : 637555.7/38

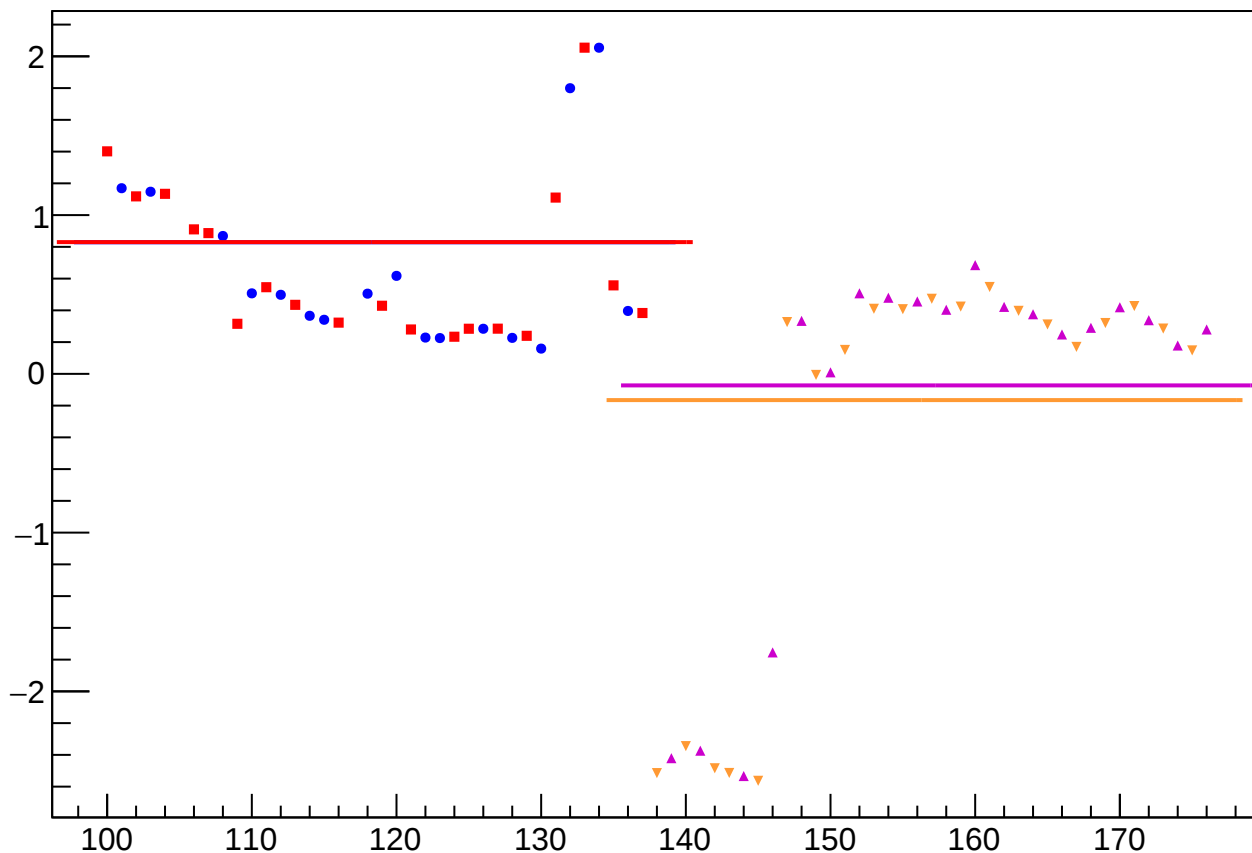
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.005+/-0.000 χ^2/NDF :3003190.1/35

Out: 0.004+/-0.000 χ^2/NDF :3217106.3/38

All: 0.004+/-0.000 χ^2/NDF : 6224575.6/74

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.165+/-0.000 χ^2/NDF : 478173585636.7/19

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: -0.119+/-0.000 χ^2/NDF : 889529788561.8/38

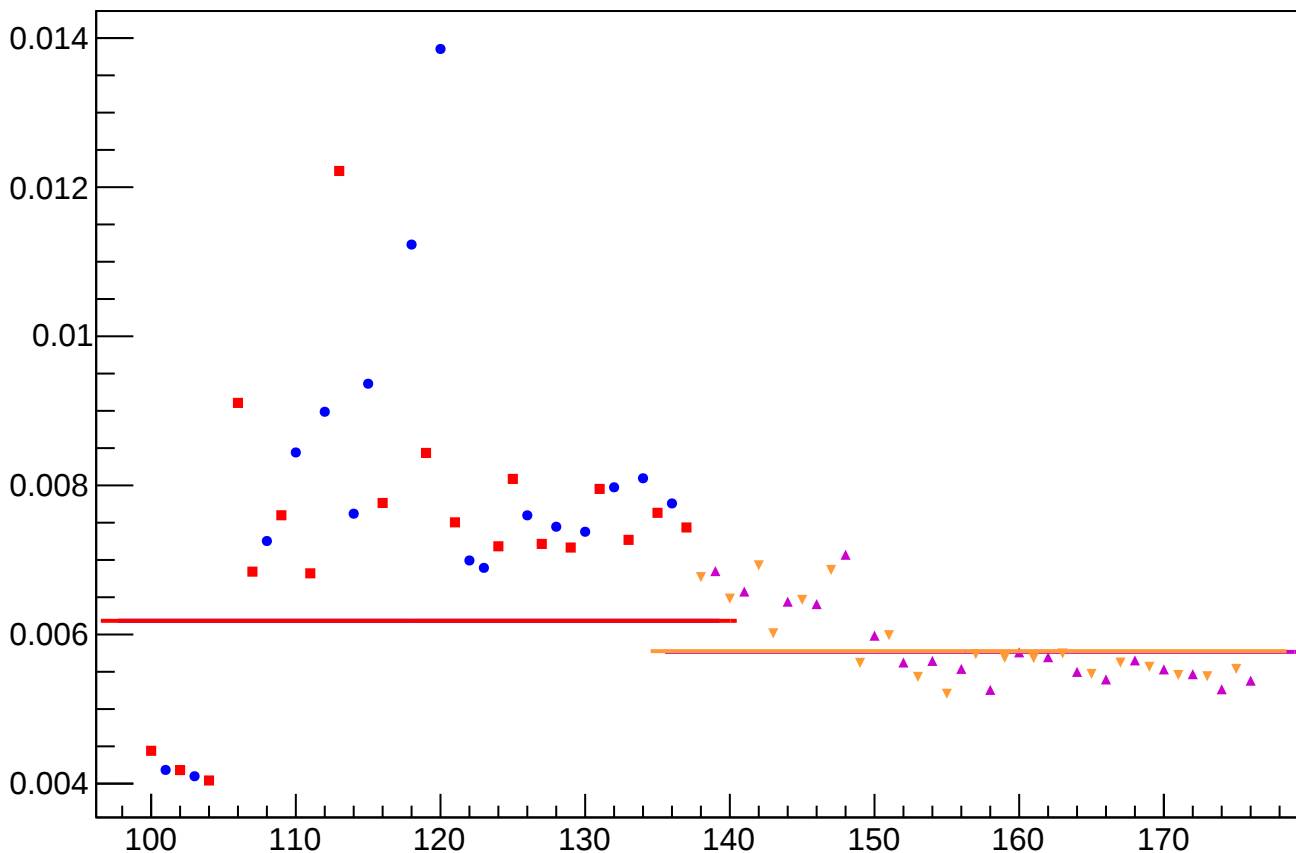
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.154+/-0.000 χ^2/NDF : 525842344642.0/35

Out: 0.100+/-0.000 χ^2/NDF : 621861256567.3/38

All: 0.127+/-0.000 χ^2/NDF : 1148532408632.0/38

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 :169072.4/19

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 : 364541.0/38

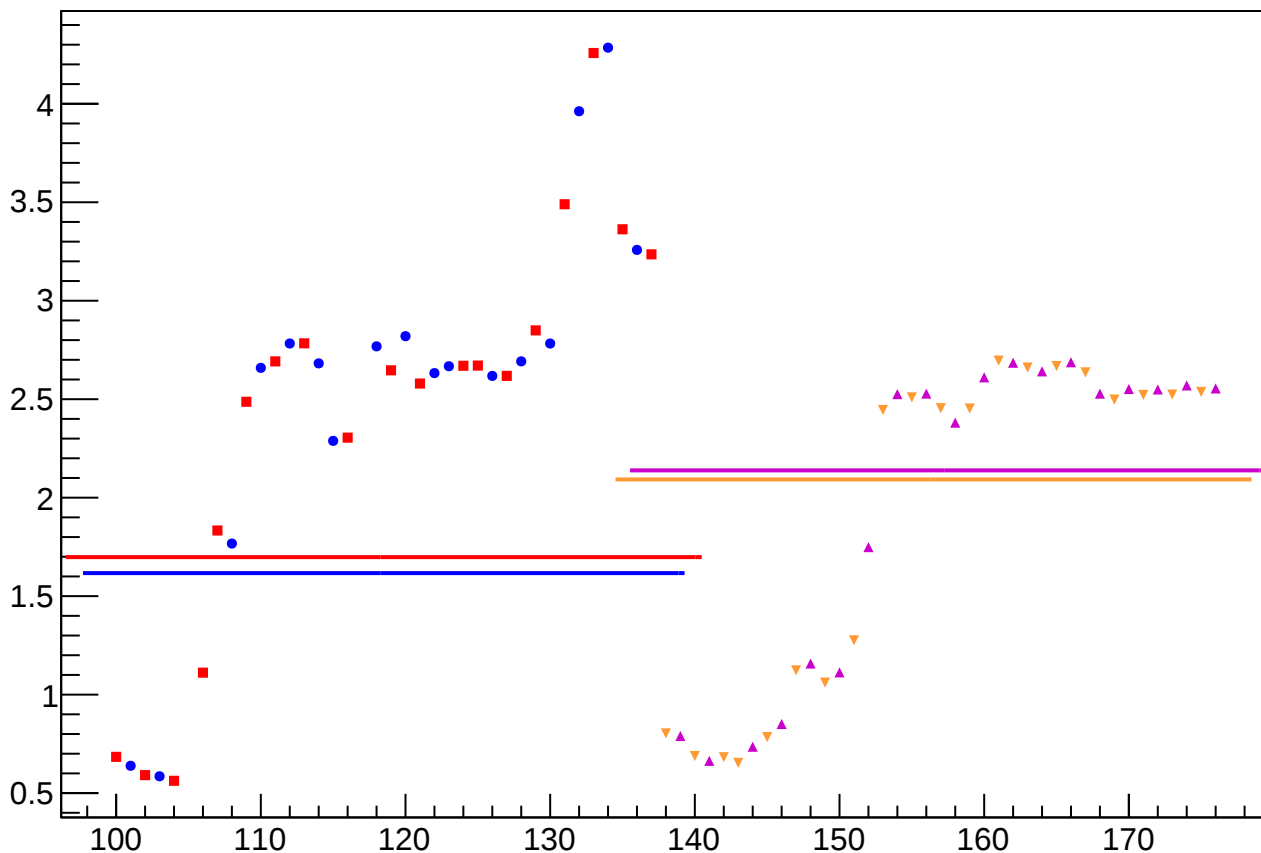
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1460742.7/35

Out: 0.006+/-0.000 χ^2/NDF :1232821.3/38

All: 0.006+/-0.000 χ^2/NDF : 2693660.5/74

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.093+/-0.000 χ^2/NDF : 272314011003.8/19

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: 2.116+/-0.000 χ^2/NDF : 514679295089.0/38

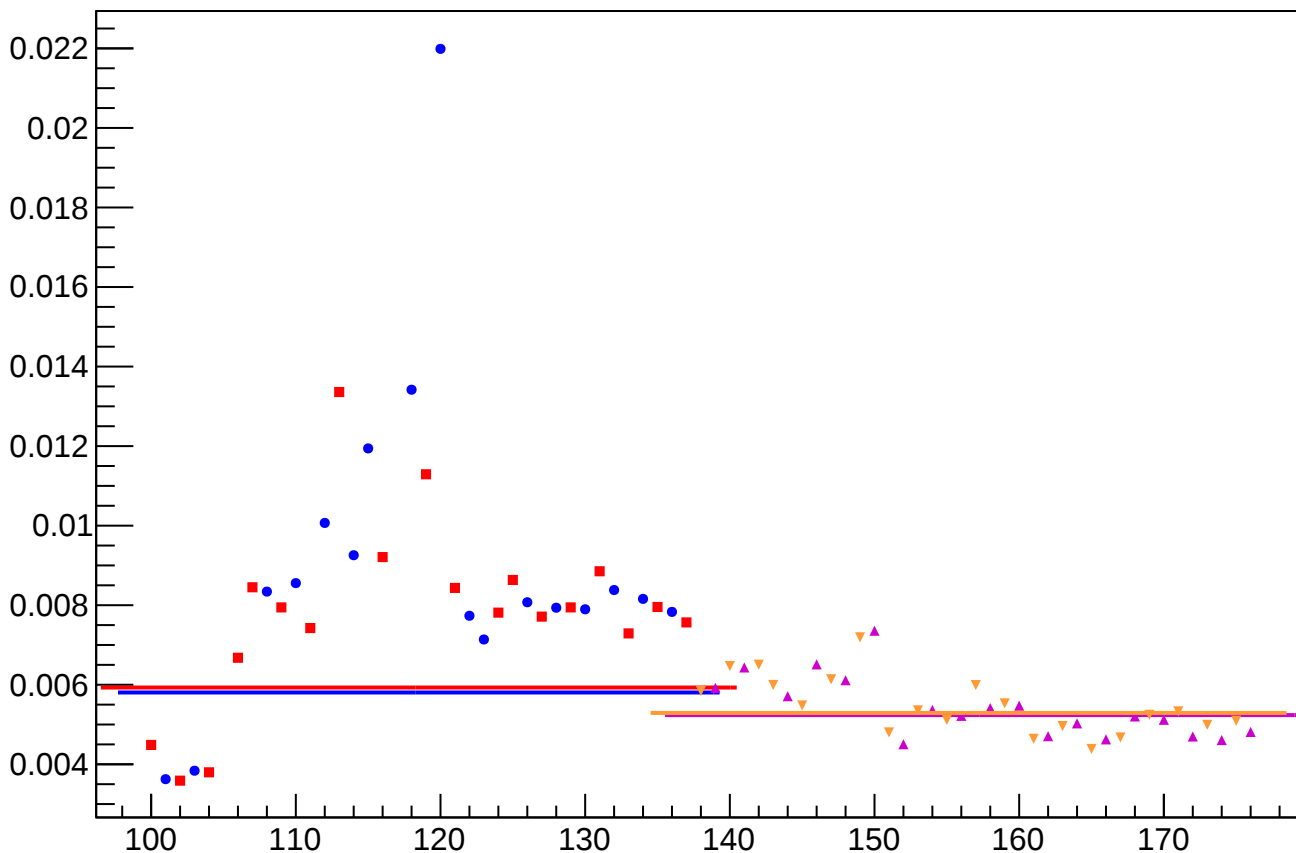
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 2.019+/-0.000 χ^2/NDF : 474793636336.2/35

Out: 1.997+/-0.000 χ^2/NDF : 517690443021.9/38

All: 2.008+/-0.000 χ^2/NDF : 992636273816.3

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 :370033.0/19

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 : 787631.0/38

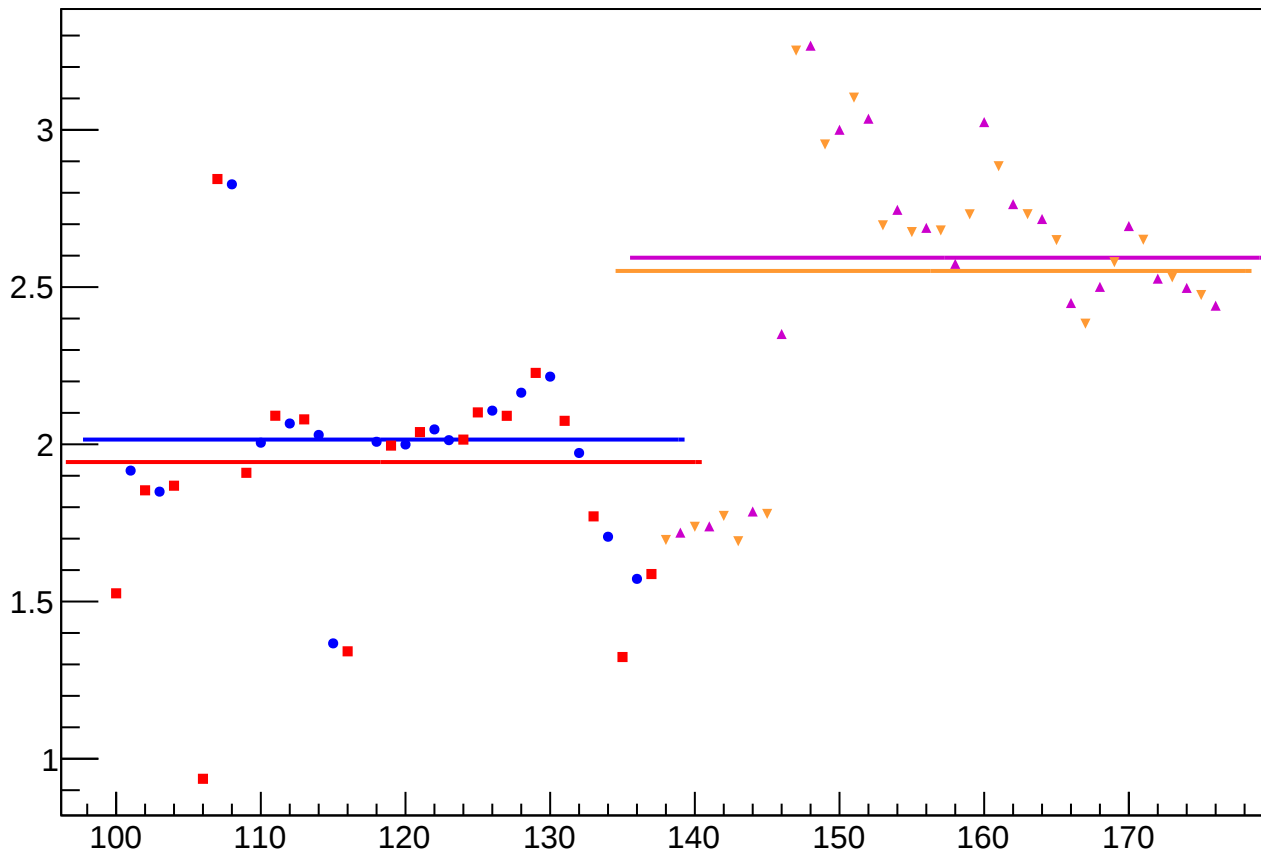
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF :2405495.8/35

Out: 0.005+/-0.000 χ^2/NDF :2149916.4/38

All: 0.005+/-0.000 χ^2/NDF : 4559278.9/74

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015 $\pm$ 0.000 χ^2 /NDF: 12228403202.6/16

Left Out: 2.551 $\pm$ 0.000 χ^2 /NDF: 48816142794.0/19

Right Out: 1.944 $\pm$ 0.000 χ^2 /NDF: 21427099579.0/18

Left In: 2.593 $\pm$ 0.000 χ^2 /NDF: 41862203920.5/18

Left: 2.572 $\pm$ 0.000 χ^2 /NDF: 90910748486.2/38

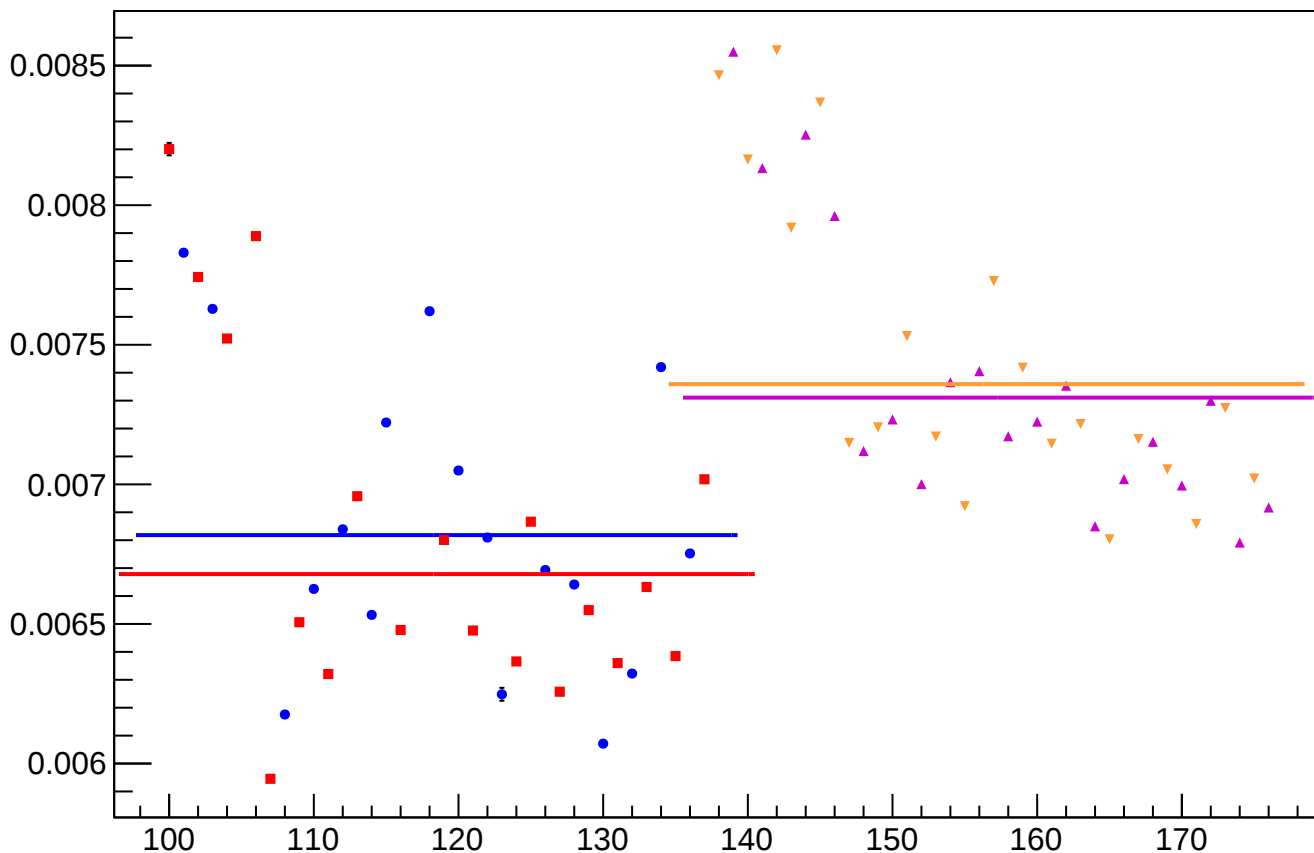
Right: 1.977 $\pm$ 0.000 χ^2 /NDF: 34023853436.2/35

In: 2.395 $\pm$ 0.000 χ^2 /NDF: 84168650837.1/35

Out: 2.328 $\pm$ 0.000 χ^2 /NDF: 105829352789.0/38

All: 2.361 $\pm$ 0.000 χ^2 /NDF: 190905975560.2

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 :119572.2/19

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 : 225556.6/38

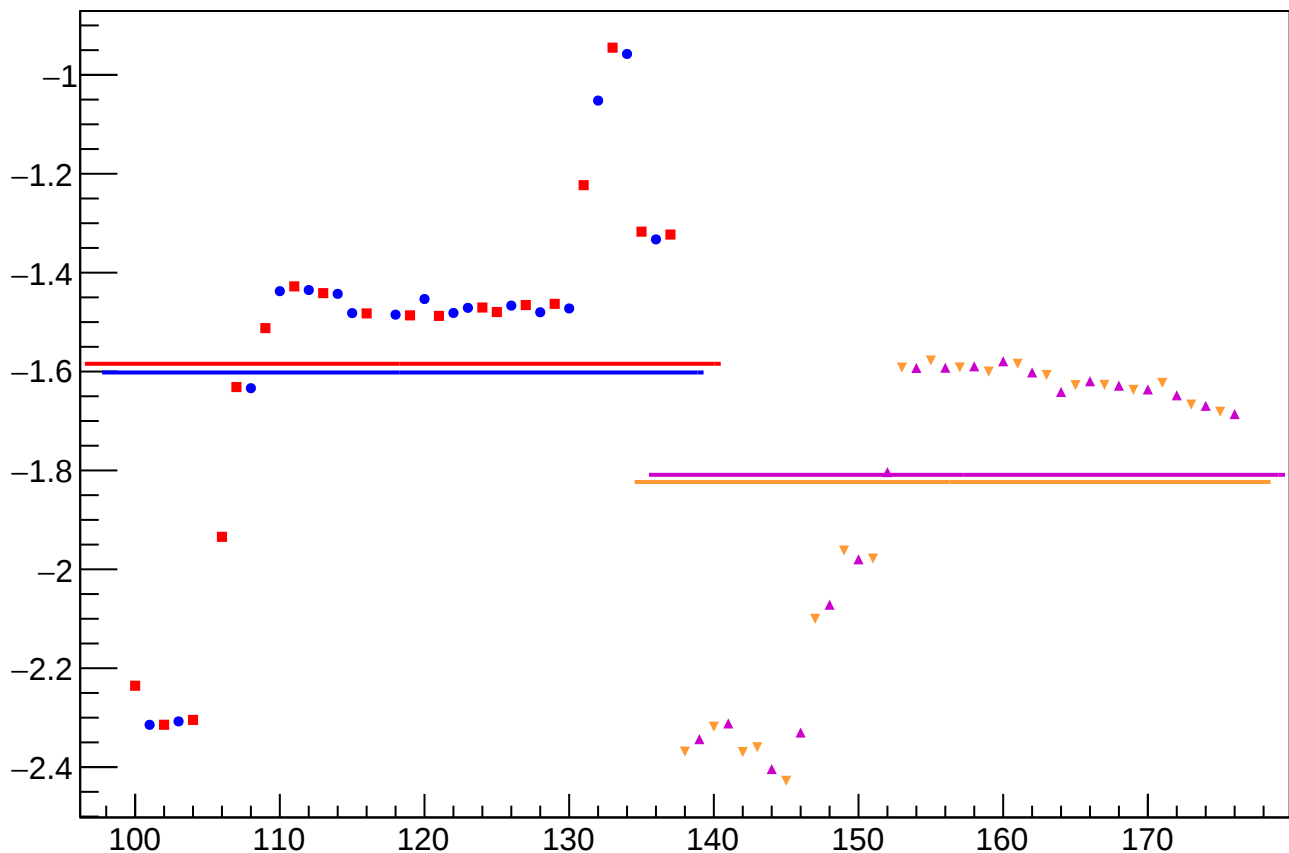
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :224799.1/35

Out: 0.007+/-0.000 χ^2/NDF :284451.7/38

All: 0.007+/-0.000 χ^2/NDF : 509682.0/74

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.823+/-0.000 χ^2/NDF : 174518709708.5/19

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.809+/-0.000 χ^2/NDF : 155768851920.6/18

Left: -1.816+/-0.000 χ^2/NDF : 330485387773.3/38

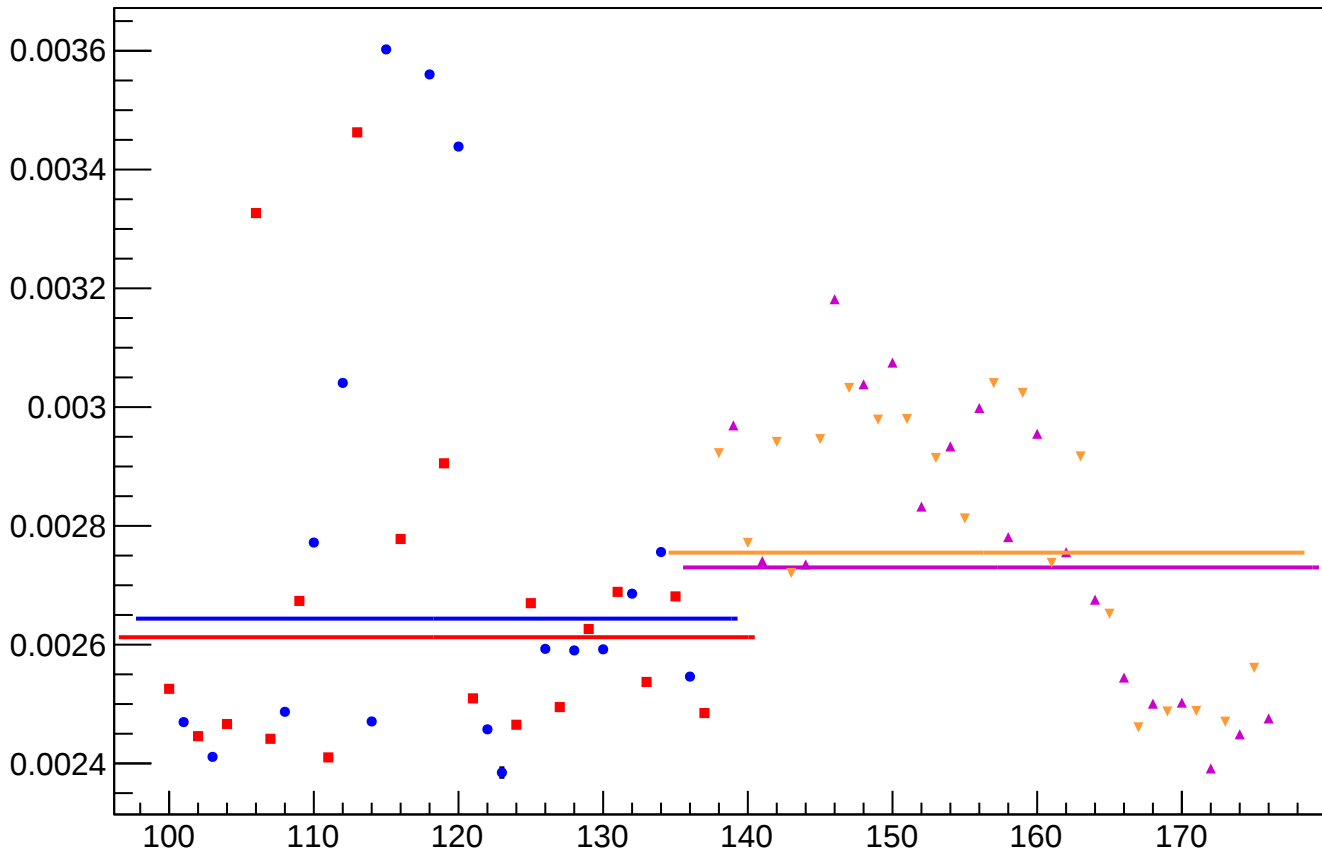
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.742+/-0.000 χ^2/NDF : 321993186015.6/35

Out: -1.741+/-0.000 χ^2/NDF : 354812379050.2/38

All: -1.742+/-0.000 χ^2/NDF : 676805992976.6/38

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 :165298.2/19

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 : 366210.9/38

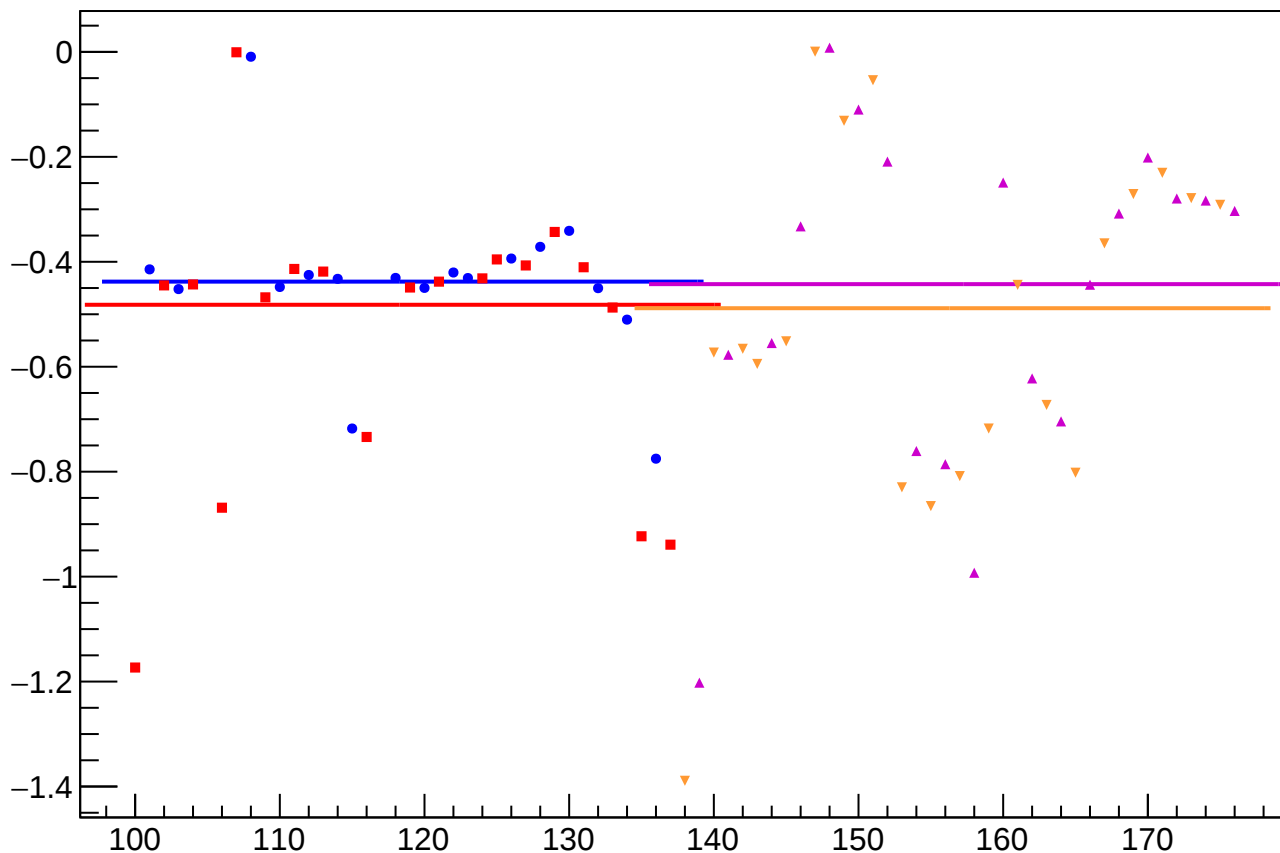
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :360151.8/35

Out: 0.003+/-0.000 χ^2/NDF :296644.7/38

All: 0.003+/-0.000 χ^2/NDF : 656840.4/74

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.488+/-0.000 χ^2/NDF : 9456157868.1/19

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: -0.466+/-0.000 χ^2/NDF : 17816258654.3/38

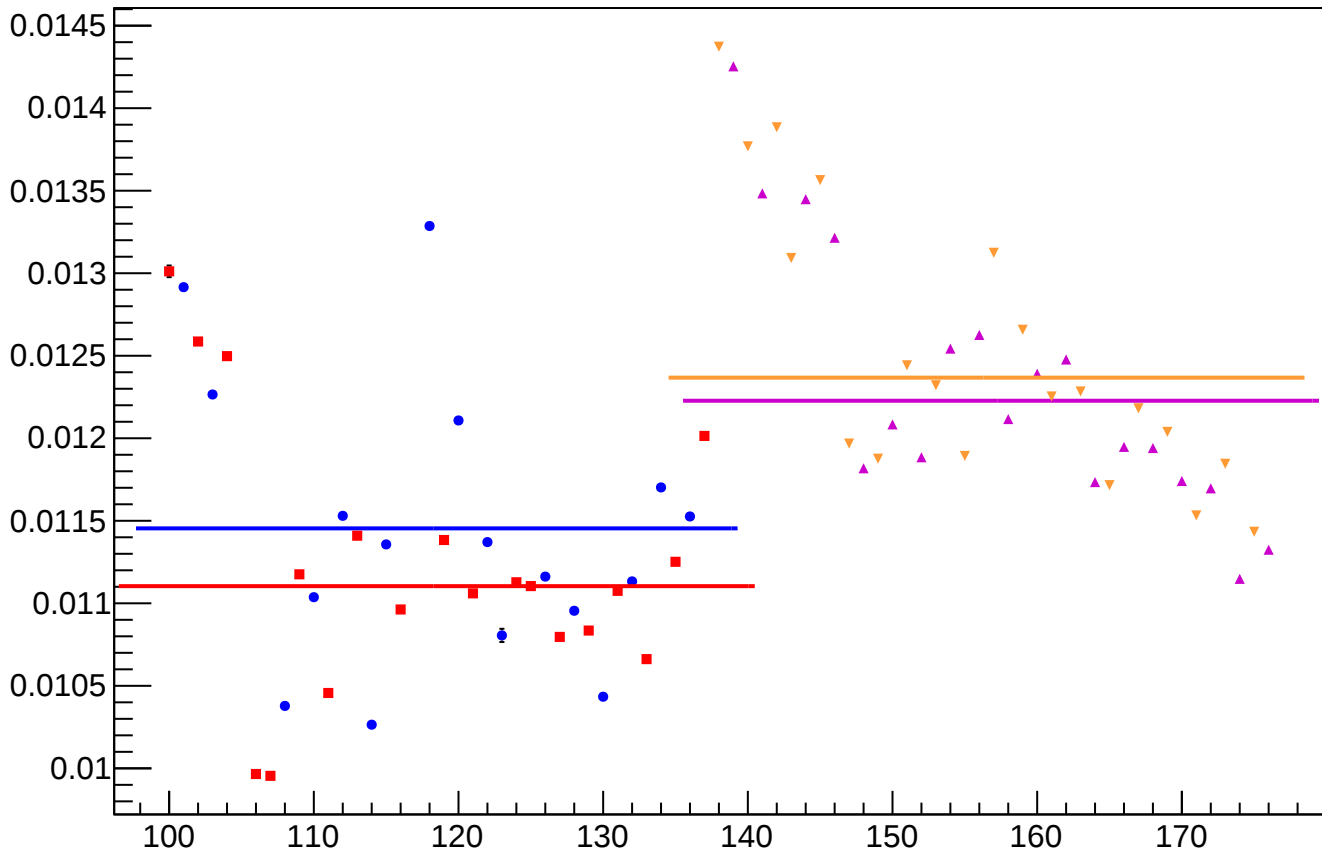
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.441+/-0.000 χ^2/NDF : 9724807998.8/35

Out: -0.486+/-0.000 χ^2/NDF : 12152297591.5/38

All: -0.464+/-0.000 χ^2/NDF : 22025688473.0

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 :105093.1/19

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 : 207731.6/38

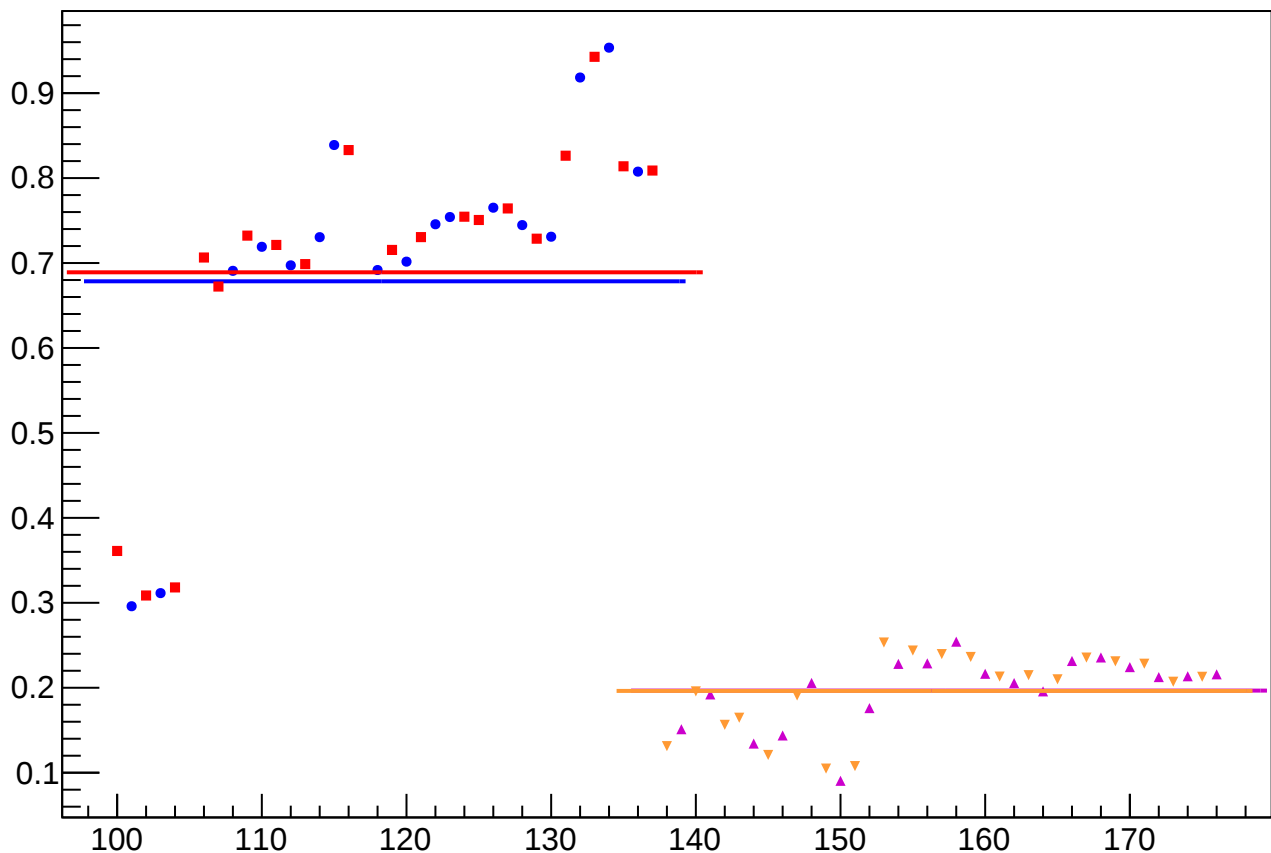
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF :204144.2/35

Out: 0.012+/-0.000 χ^2/NDF :273265.9/38

All: 0.012+/-0.000 χ^2/NDF : 478089.6/74

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.196+/-0.000 χ^2/NDF : 6588298474.7/19

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: 0.196+/-0.000 χ^2/NDF : 11887316034.3/38

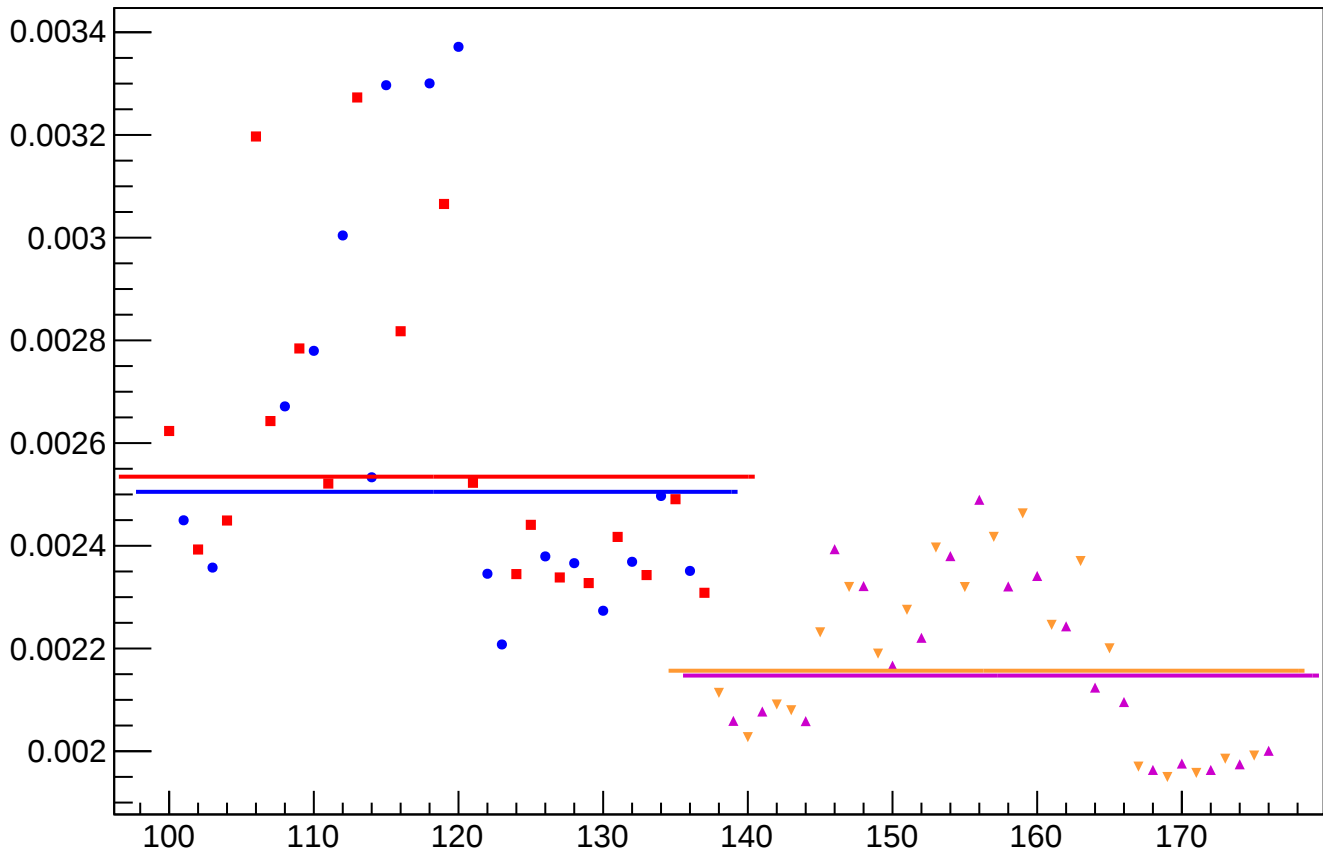
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.315+/-0.000 χ^2/NDF : 221841460013.8/35

Out: 0.318+/-0.000 χ^2/NDF : 232661125985.4/38

All: 0.316+/-0.000 χ^2/NDF : 454528571784.6

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 :175293.9/19

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 : 337611.7/38

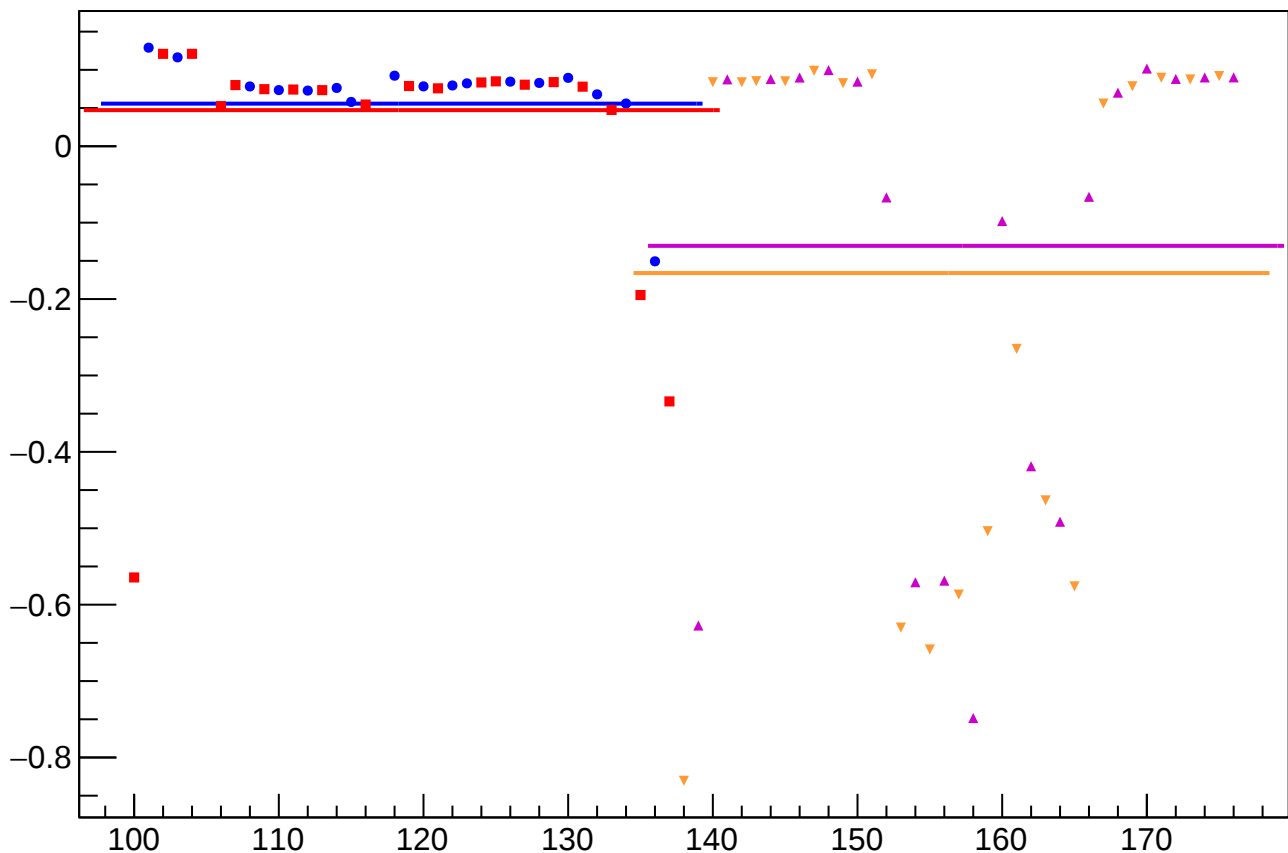
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :533889.5/35

Out: 0.002+/-0.000 χ^2/NDF :531148.7/38

All: 0.002+/-0.000 χ^2/NDF : 1066015.9/74

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 423003688.1/16

Left: -0.148+/-0.000

χ^2/NDF : 22309600100.8/38

Left Out: -0.166+/-0.000

χ^2/NDF : 12121465465.5/19

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: -0.080+/-0.000

χ^2/NDF : 15040048255.6/38

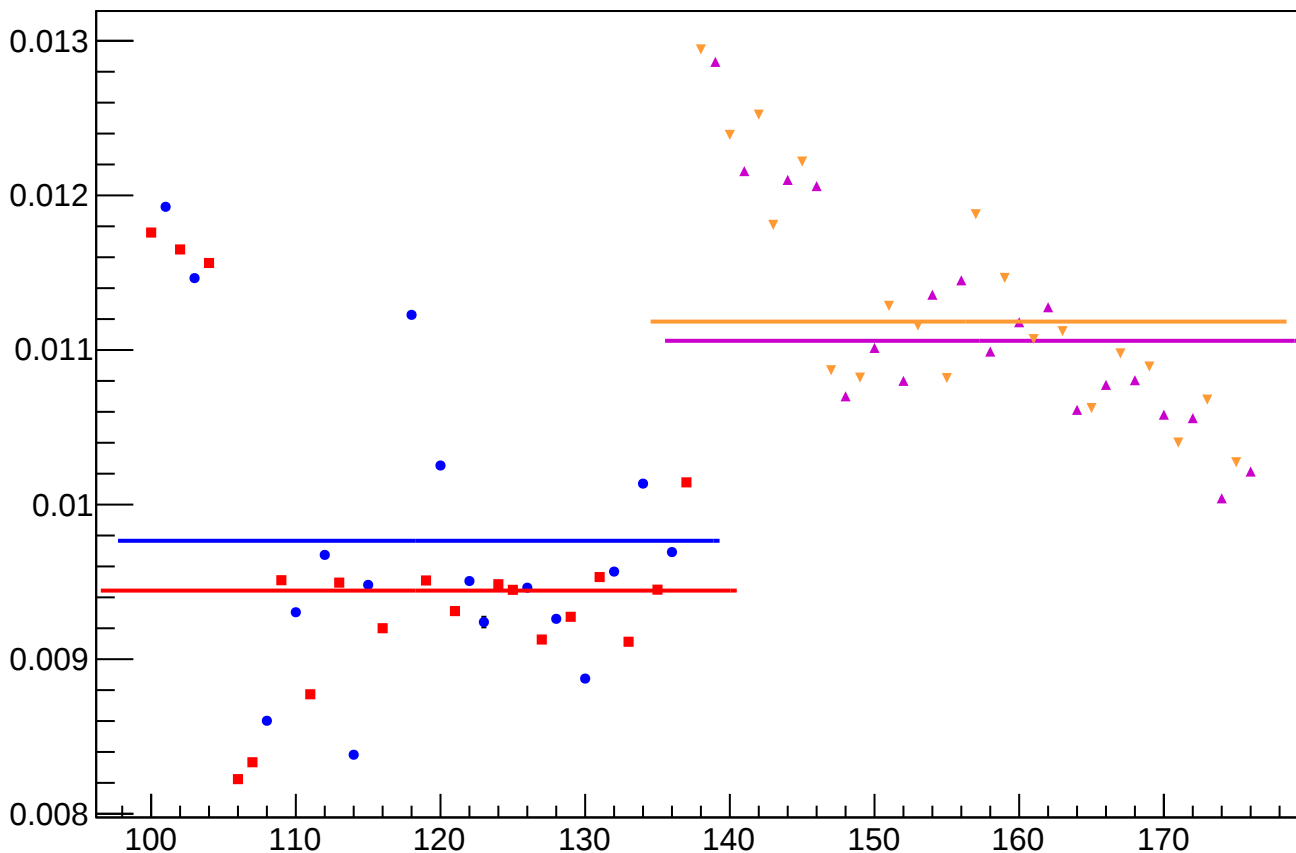
Left In: -0.130+/-0.000

χ^2/NDF : 10115570084.5/18

All: -0.071+/-0.000

χ^2/NDF : 27081954640.4/4

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 :102038.0/19

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 : 206025.2/38

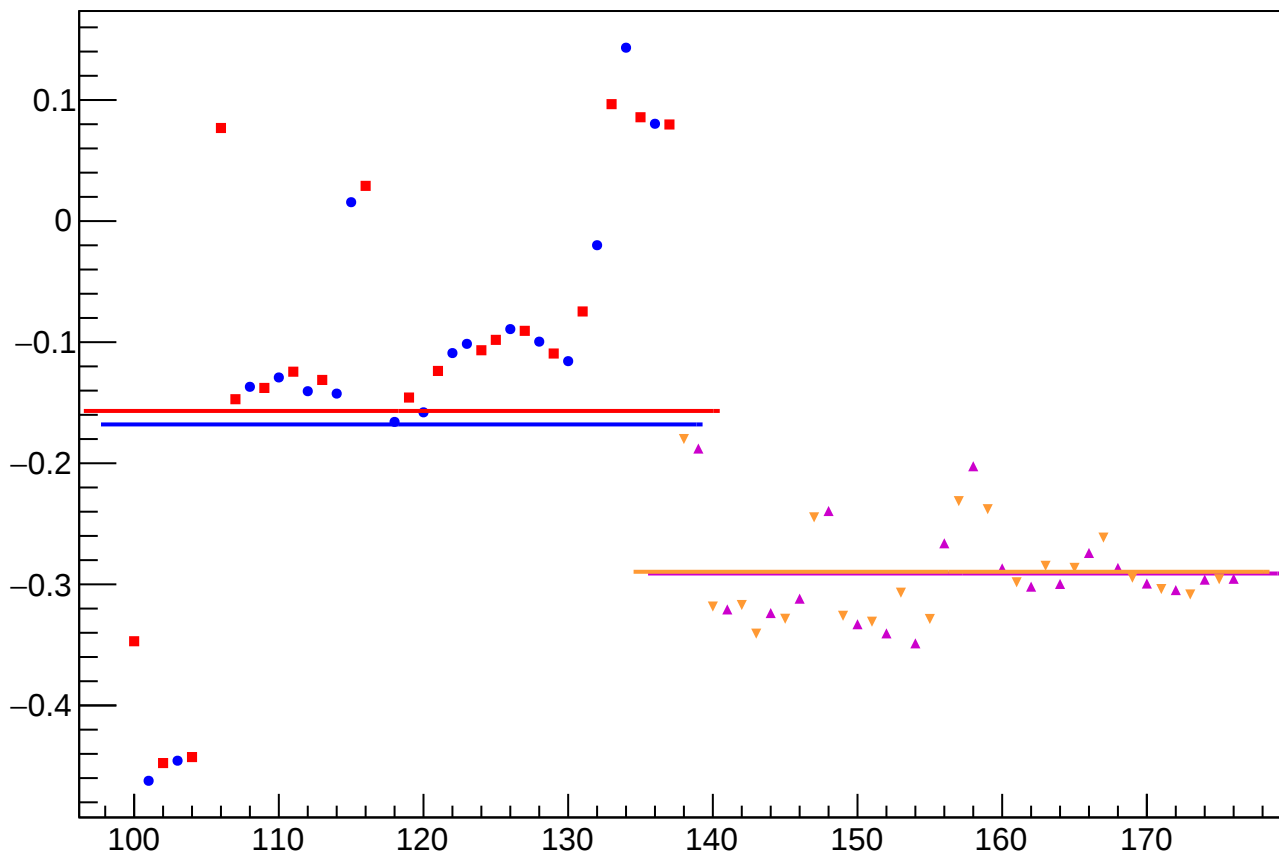
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF :360972.8/35

Out: 0.010+/-0.000 χ^2/NDF :492326.8/38

All: 0.011+/-0.000 χ^2/NDF : 855098.3/74

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168 ± 0.000 $\chi^2/\text{NDF}: 12331812610.6/16$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2850896909.6/19$

Right Out: -0.157 ± 0.000 $\chi^2/\text{NDF}: 11026962470.3/18$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3119830550.1/18$

Left: -0.290 ± 0.000 $\chi^2/\text{NDF}: 5972658259.0/38$

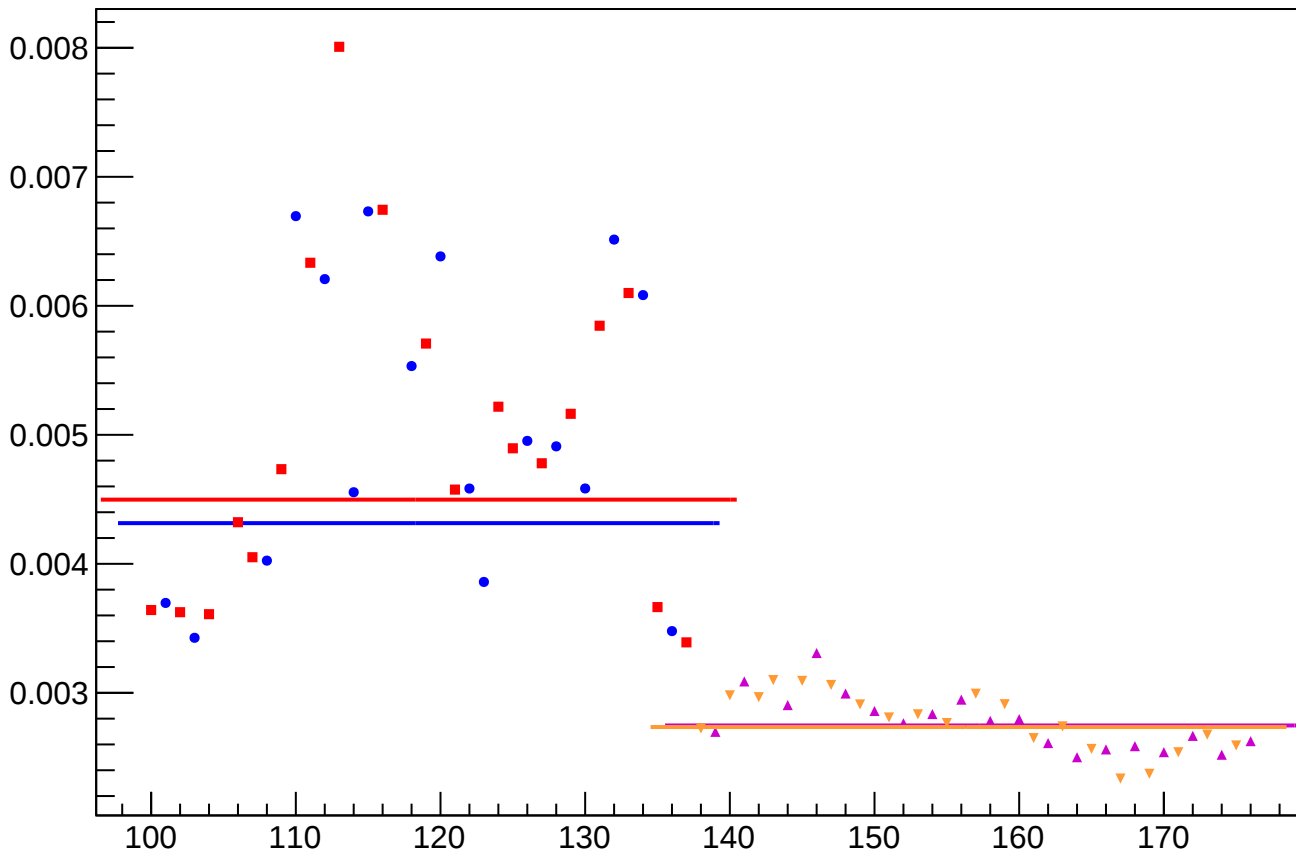
Right: -0.162 ± 0.000 $\chi^2/\text{NDF}: 23377980189.6/35$

In: -0.273 ± 0.000 $\chi^2/\text{NDF}: 19498132724.0/35$

Out: -0.271 ± 0.000 $\chi^2/\text{NDF}: 18551332714.5/38$

All: -0.272 ± 0.000 $\chi^2/\text{NDF}: 38054276754.9/73$

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 :195650.8/19

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 : 336635.6/38

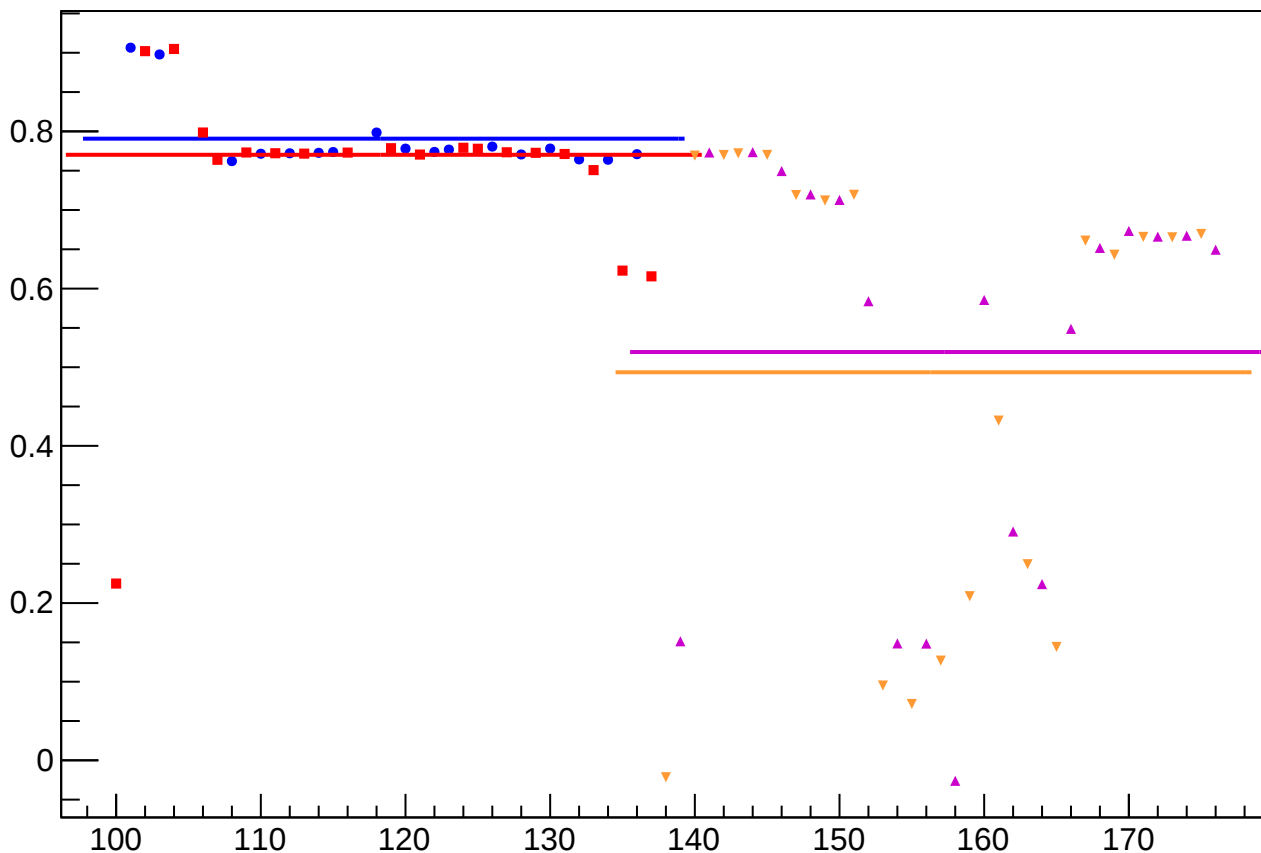
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :2073733.6/35

Out: 0.003+/-0.000 χ^2/NDF :2491807.8/38

All: 0.003+/-0.000 χ^2/NDF : 4565621.8/74

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.494+/-0.000 χ^2/NDF : 9058306923.2/19

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: 0.506+/-0.000 χ^2/NDF : 16673130949.6/38

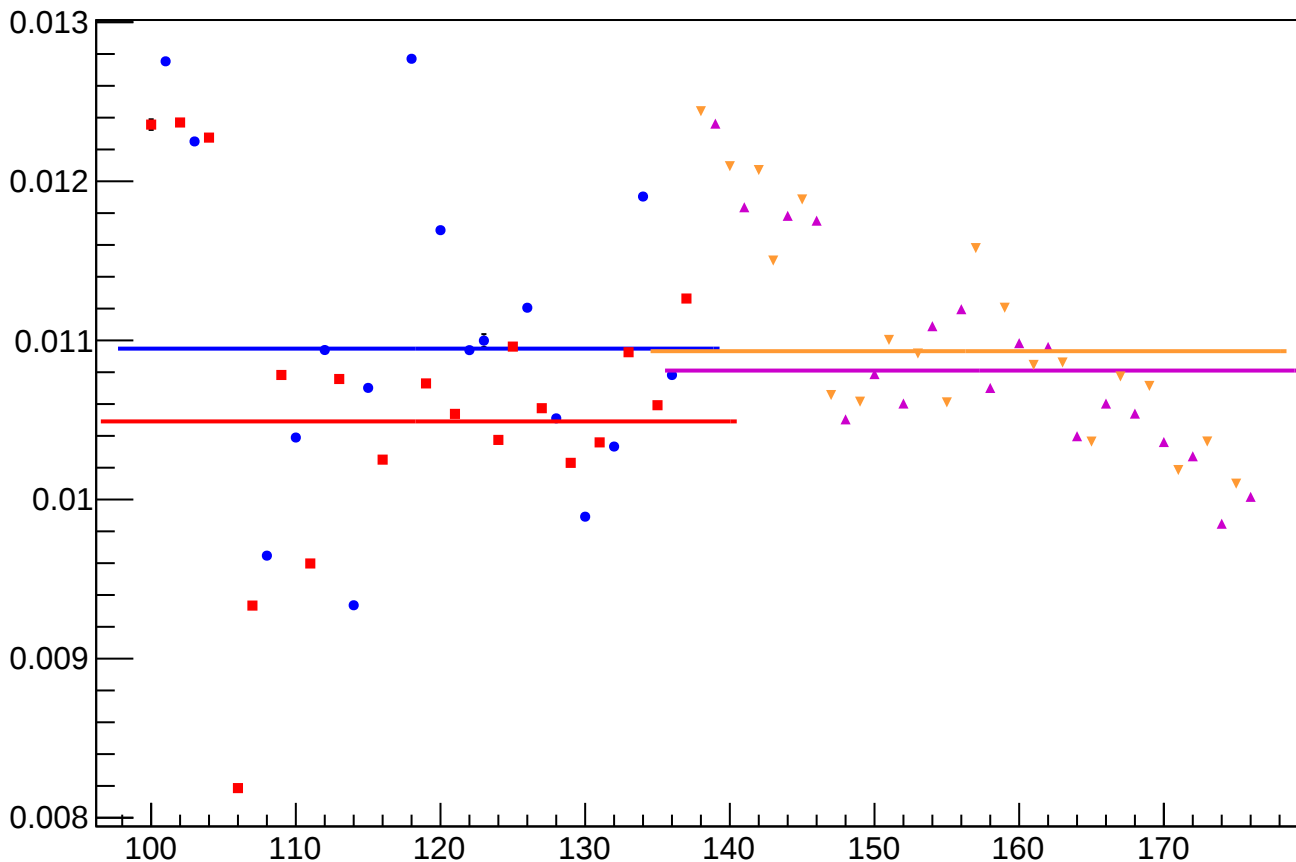
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.603+/-0.000 χ^2/NDF : 10420177649.0/35

Out: 0.588+/-0.000 χ^2/NDF : 12589306804.8/38

All: 0.595+/-0.000 χ^2/NDF : 23028945266.9/71

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98551.4/16

Left Out: 0.011+/-0.000 χ^2/NDF : 90788.2/19

Right Out: 0.010+/-0.000 χ^2/NDF : 119420.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 92295.4/18

Left: 0.011+/-0.000 χ^2/NDF : 184873.2/38

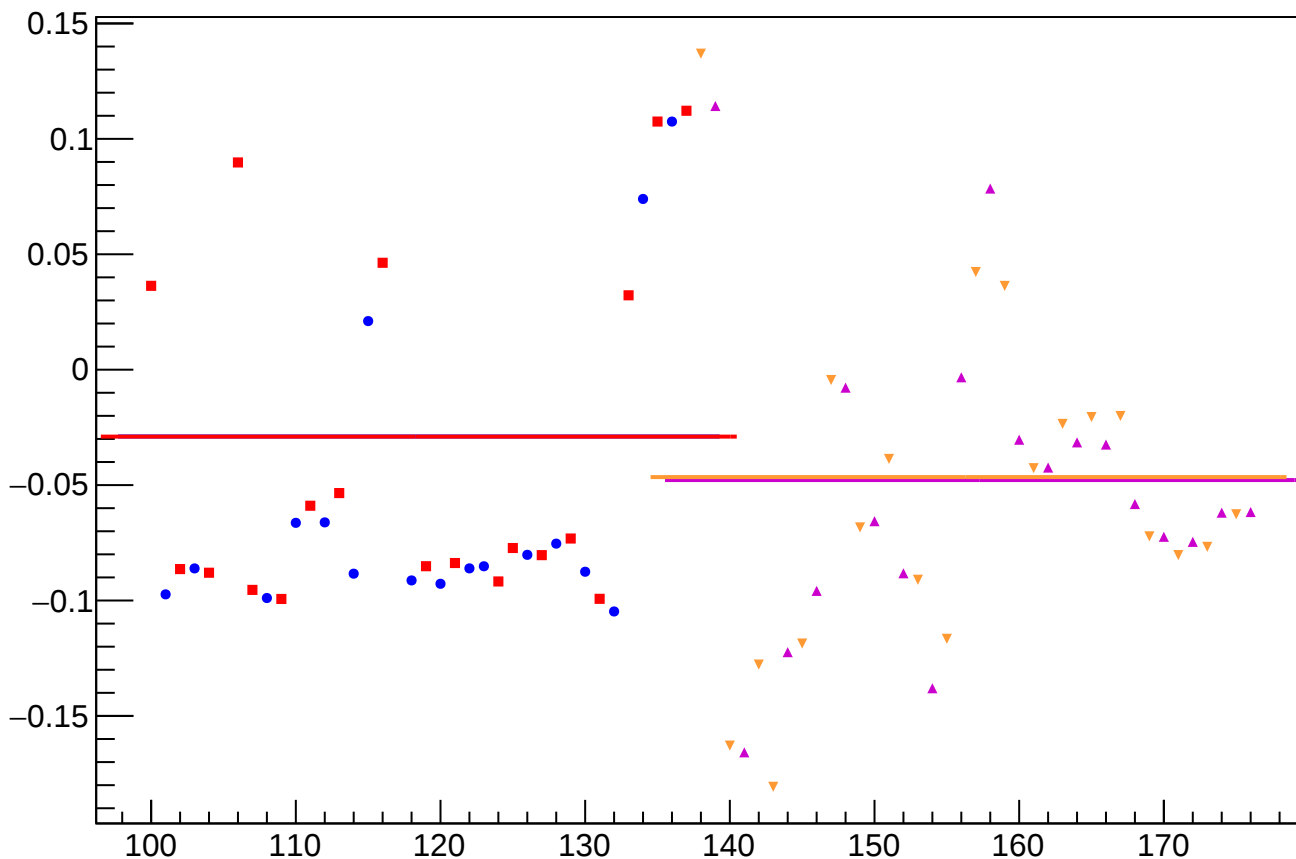
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 192261.0/35

Out: 0.011+/-0.000 χ^2/NDF : 226279.9/38

All: 0.011+/-0.000 χ^2/NDF : 419460.6/74

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.000 $\chi^2/\text{NDF}: 2445975608.2/16$

Left Out: -0.047 ± 0.000 $\chi^2/\text{NDF}: 7091037489.5/19$

Right Out: -0.029 ± 0.000 $\chi^2/\text{NDF}: 2113349669.8/18$

Left In: -0.048 ± 0.000 $\chi^2/\text{NDF}: 6047852536.6/18$

Left: -0.047 ± 0.000 $\chi^2/\text{NDF}: 13140186298.6/38$

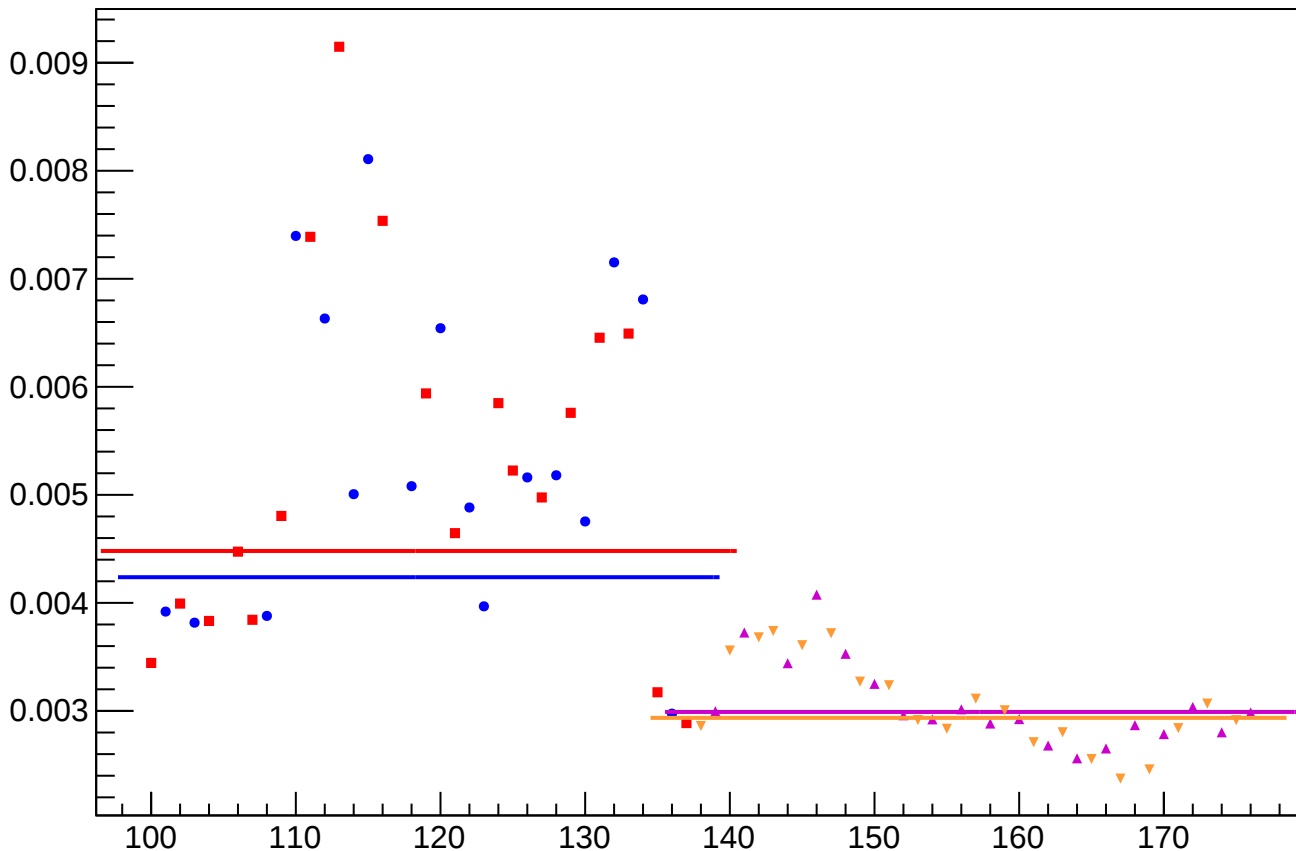
Right: -0.029 ± 0.000 $\chi^2/\text{NDF}: 4559325692.9/35$

In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 8584294805.9/35$

Out: -0.044 ± 0.000 $\chi^2/\text{NDF}: 9280253952.9/38$

All: -0.044 ± 0.000 $\chi^2/\text{NDF}: 17865175758.9/71$

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003+/-0.000 χ^2/NDF : 464076.8/19

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 316068.4/18

Left: 0.003+/-0.000 χ^2/NDF : 784838.5/38

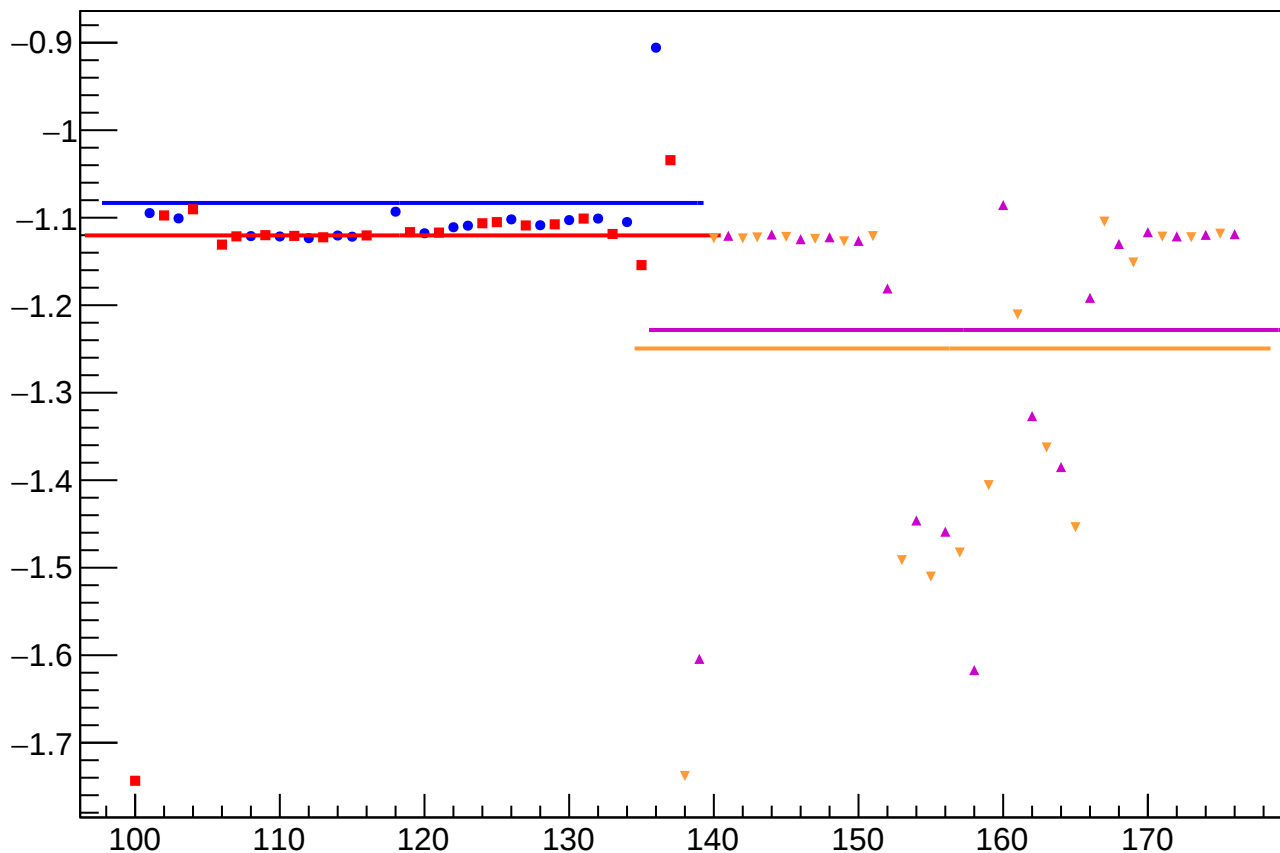
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1987686.1/35

Out: 0.003+/-0.000 χ^2/NDF : 2625415.4/38

All: 0.003+/-0.000 χ^2/NDF : 4614420.0/74

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.249+/-0.000 χ^2/NDF : 4749424232.6/19

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: -1.239+/-0.000 χ^2/NDF : 8987193957.1/38

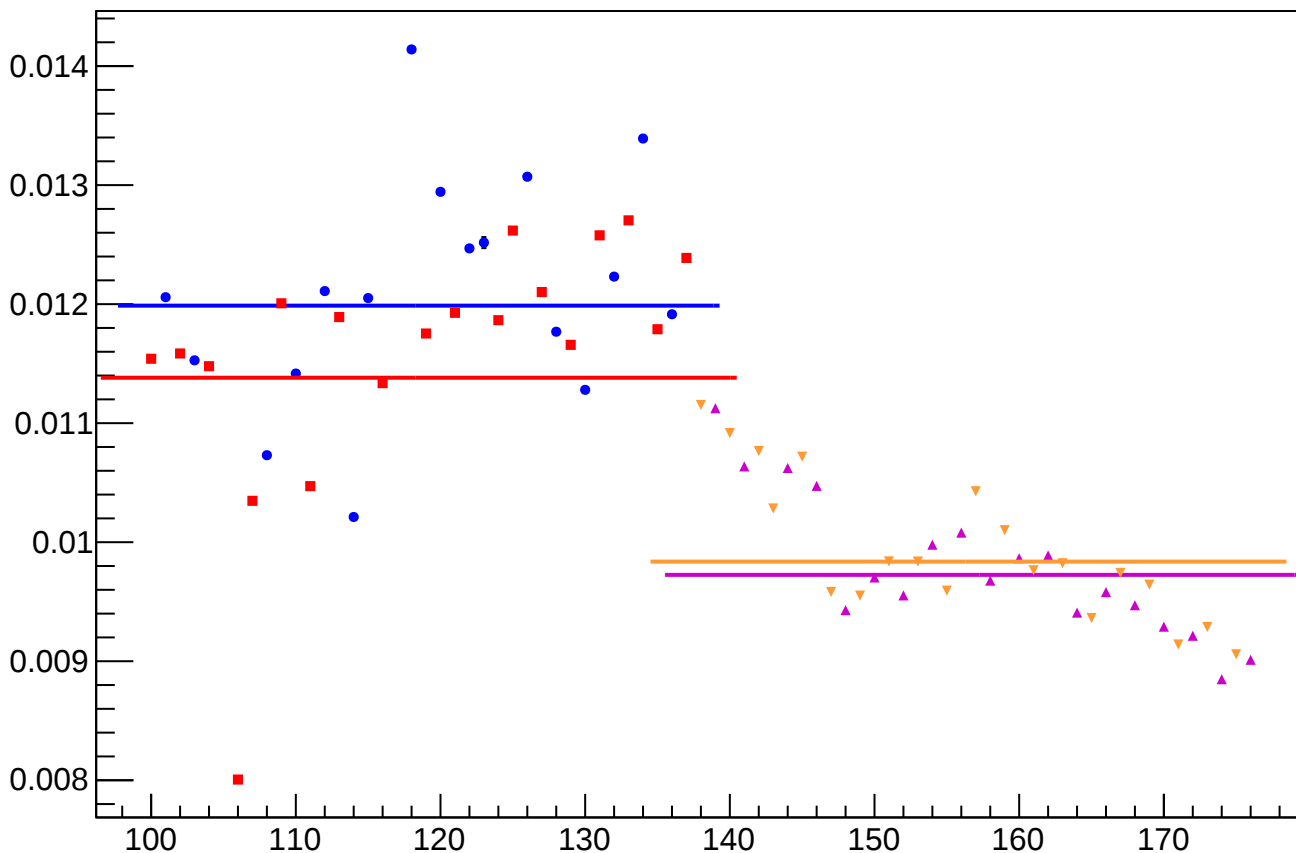
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.195+/-0.000 χ^2/NDF : 5133919552.2/35

Out: -1.216+/-0.000 χ^2/NDF : 5622060083.2/38

All: -1.205+/-0.000 χ^2/NDF : 10799022272.8/76

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:91171.4/19

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: 185066.1/38

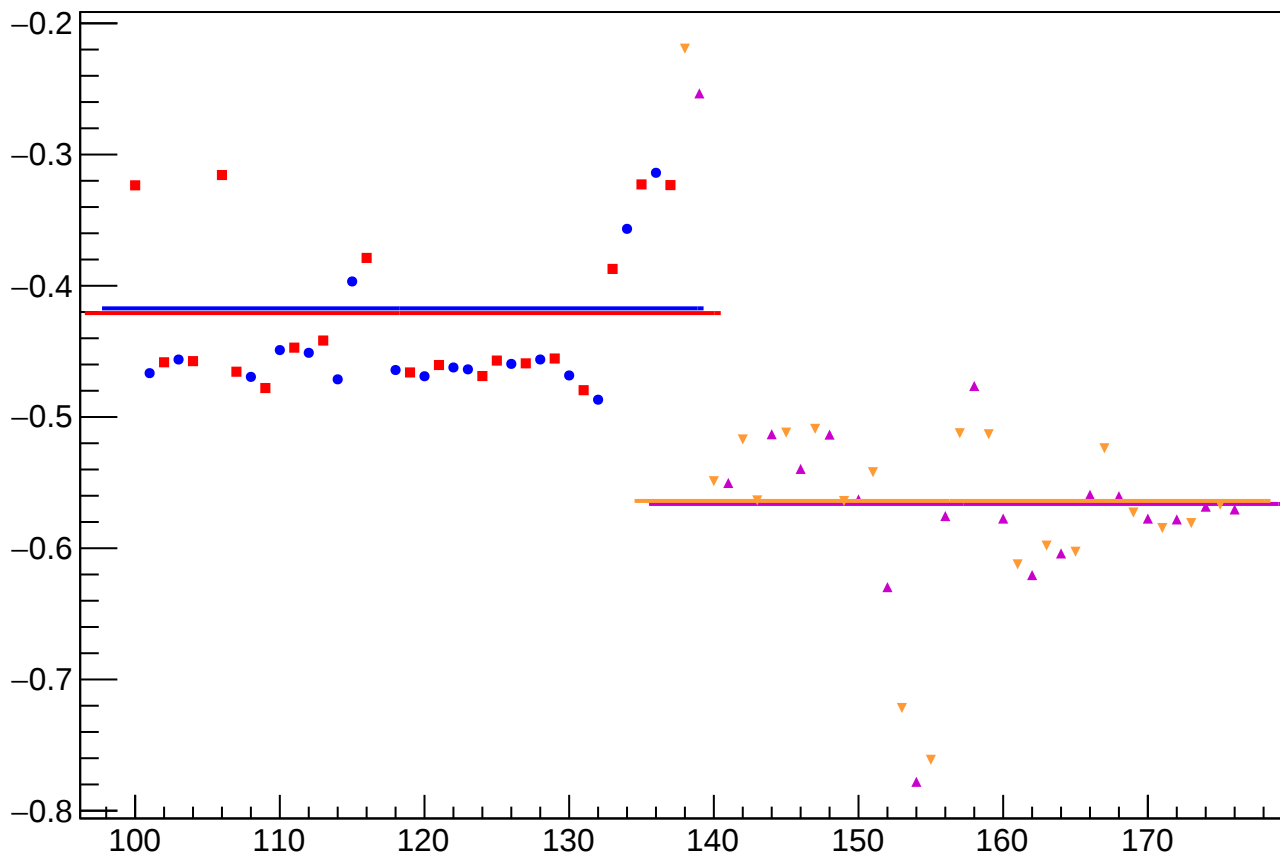
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:505176.0/35

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:432111.0/38

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 937294.9/74

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.564+/-0.000 χ^2/NDF : 13310484066.5/19

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 : 23747044424.0/38

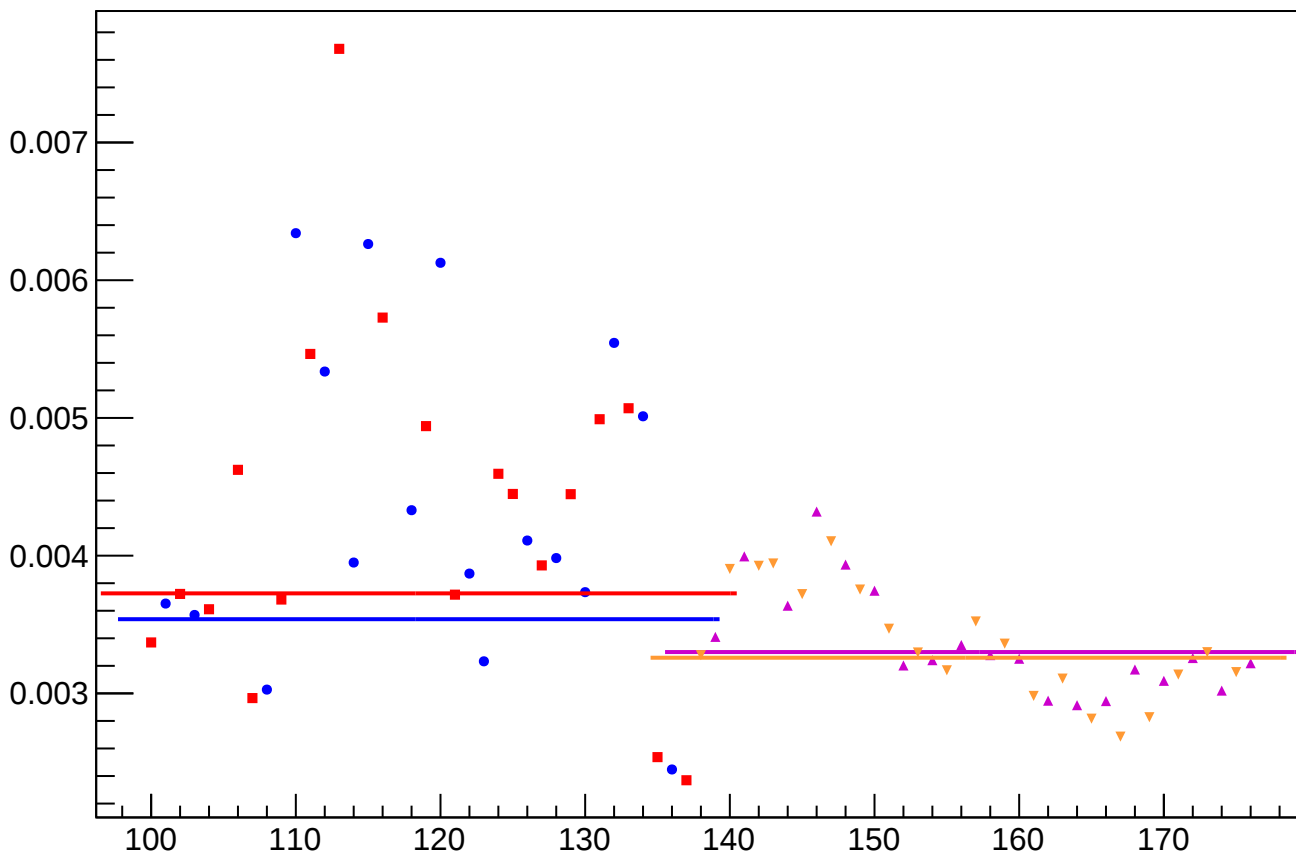
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.528+/-0.000 χ^2/NDF : 19638206423.7/35

Out: -0.529+/-0.000 χ^2/NDF : 21500882991.0/38

All: -0.529+/-0.000 χ^2/NDF : 41140531584.2/78

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 836154.0/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:374539.0/19

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 898447.6/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:277193.8/18

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 653917.6/38

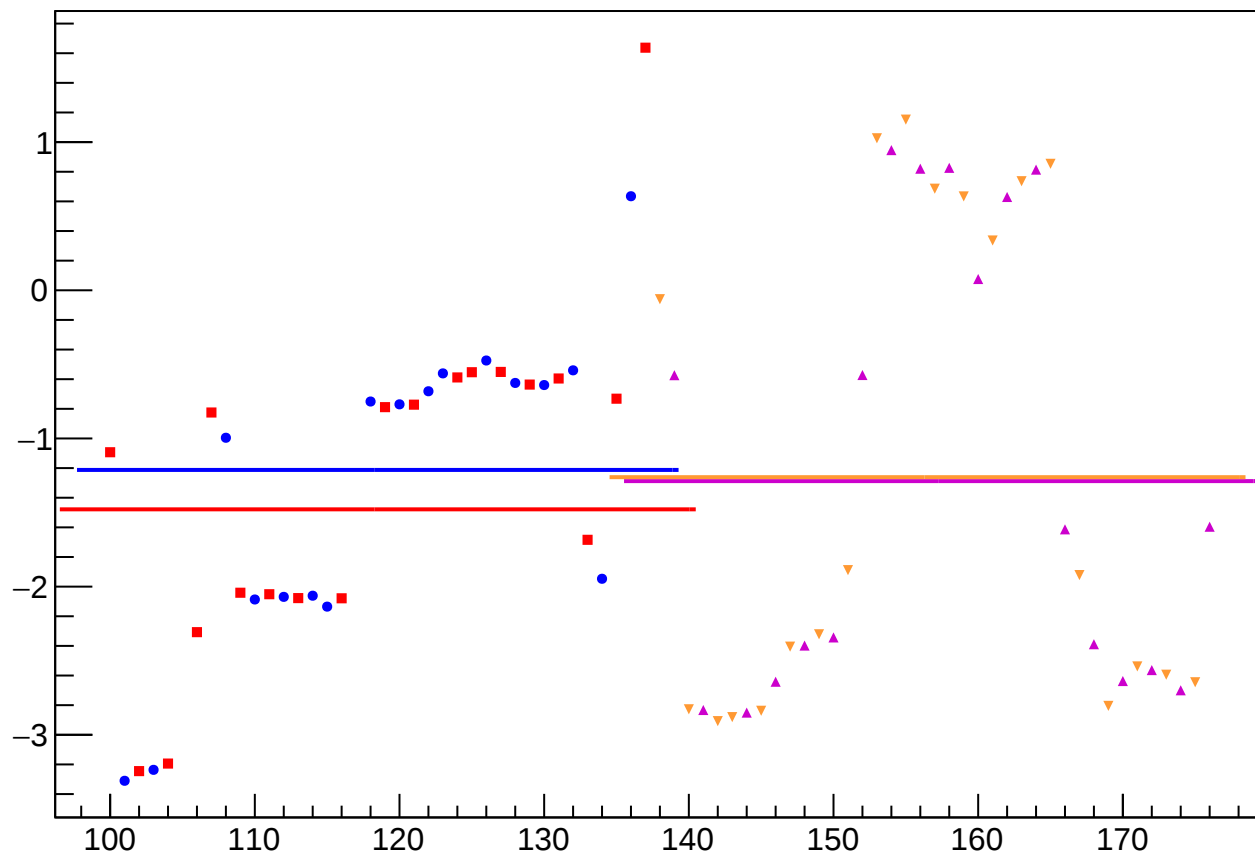
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1749655.8/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:1150046.6/35

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:1412465.3/38

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 2562714.8/74

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212+/-0.000 χ^2/NDF : 1992853443.9/16

Left Out: -1.261+/-0.000 χ^2/NDF : 6708406159.5/19

Right Out: -1.478+/-0.000 χ^2/NDF : 1578264383.8/18

Left In: -1.288+/-0.000 χ^2/NDF : 5510882063.2/18

Left: -1.274+/-0.000 χ^2/NDF : 12220194362.5/38

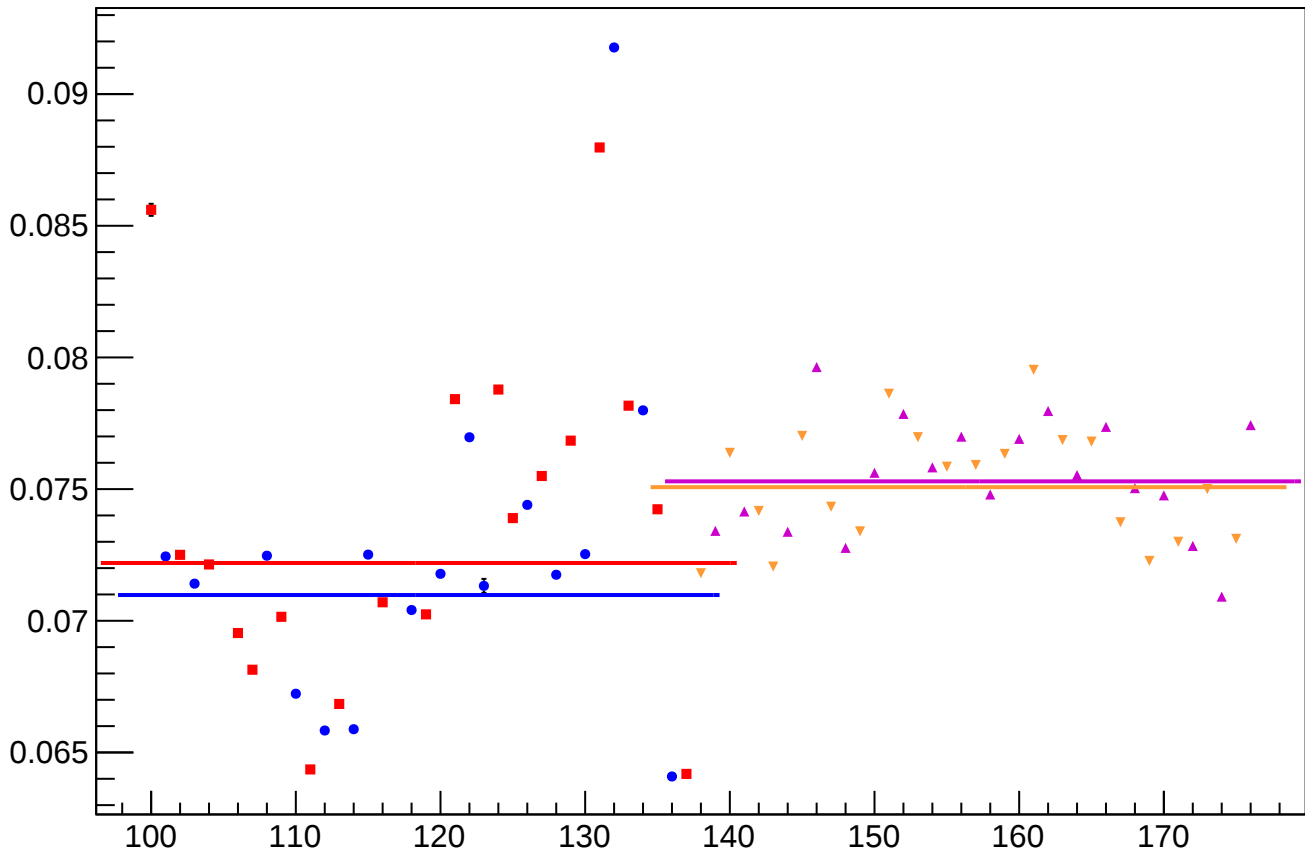
Right: -1.347+/-0.000 χ^2/NDF : 3617796481.7/35

In: -1.262+/-0.000 χ^2/NDF : 7508638978.5/35

Out: -1.335+/-0.000 χ^2/NDF : 8328342206.9/38

All: -1.299+/-0.000 χ^2/NDF : 15847181584.0/71

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 : 24372.4/19

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 : 47532.5/38

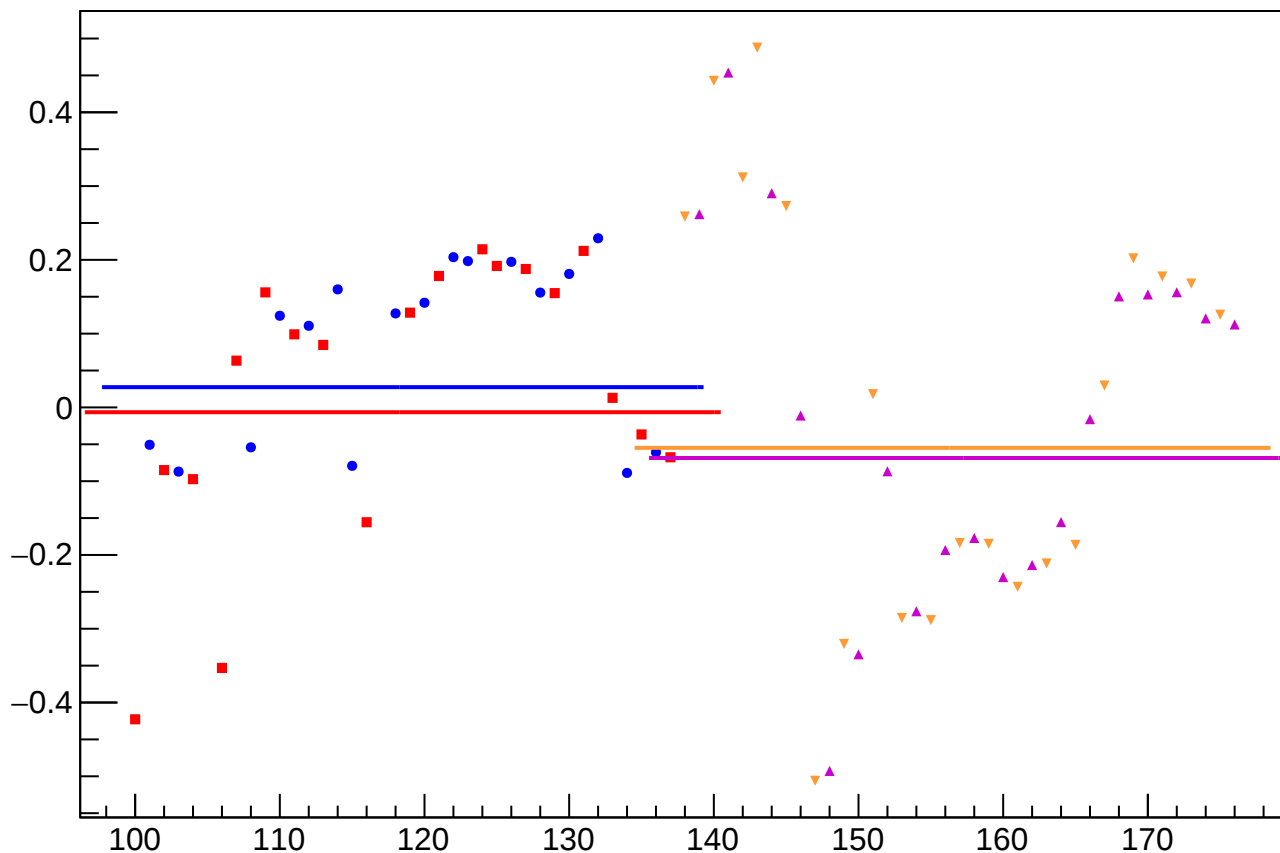
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 132719.5/35

Out: 0.074+/-0.000 χ^2/NDF : 112268.9/38

All: 0.074+/-0.000 χ^2/NDF : 245281.9/74

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562337631.4/16

Left: -0.061+/-0.000

χ^2/NDF : 32802967655.6/38

Left Out: -0.055+/-0.000

χ^2/NDF : 18542651678.8/19

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

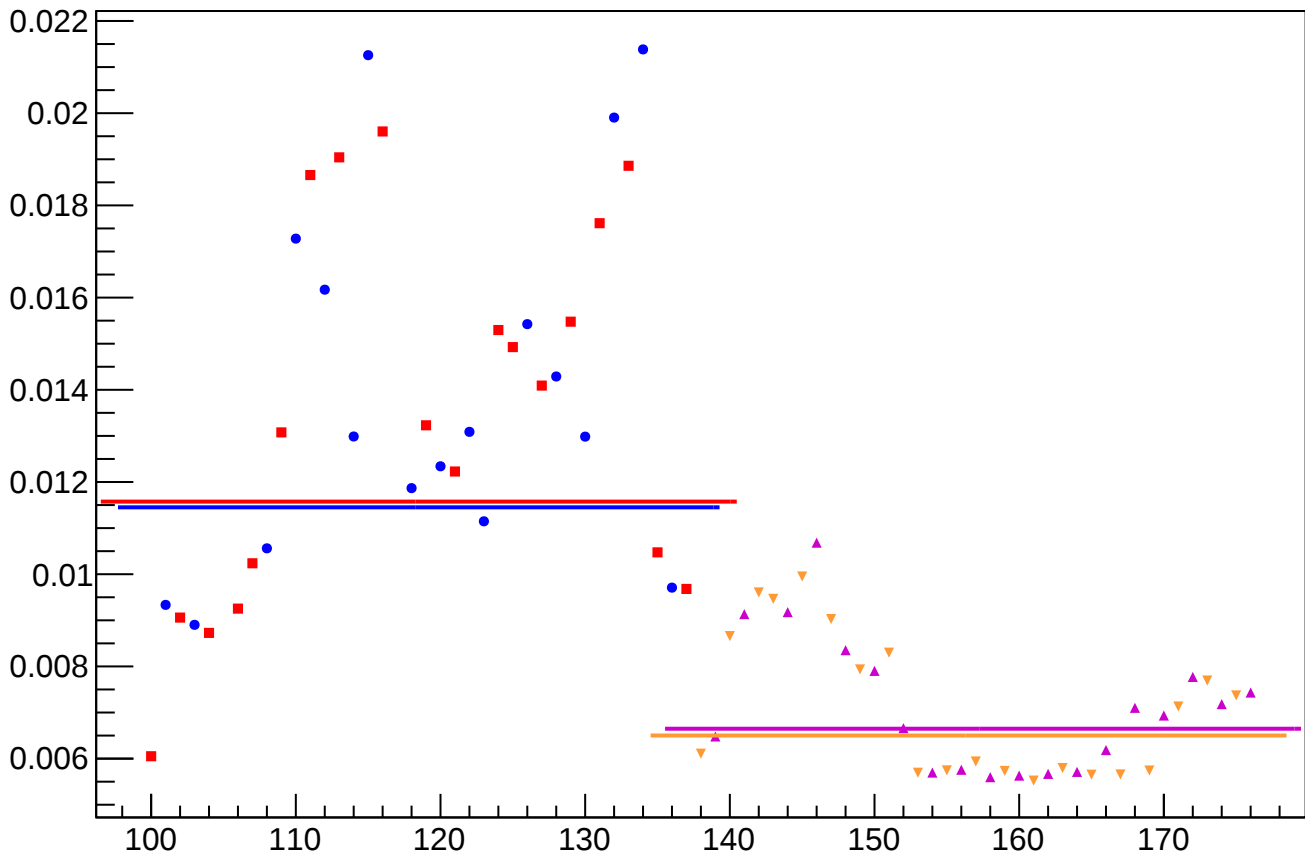
Out: -0.049+/-0.000

χ^2/NDF : 19832895194.1/38

All: -0.053+/-0.000

χ^2/NDF : 34988861297.0/71

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 :1002122.6/19

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 : 1863261.6/38

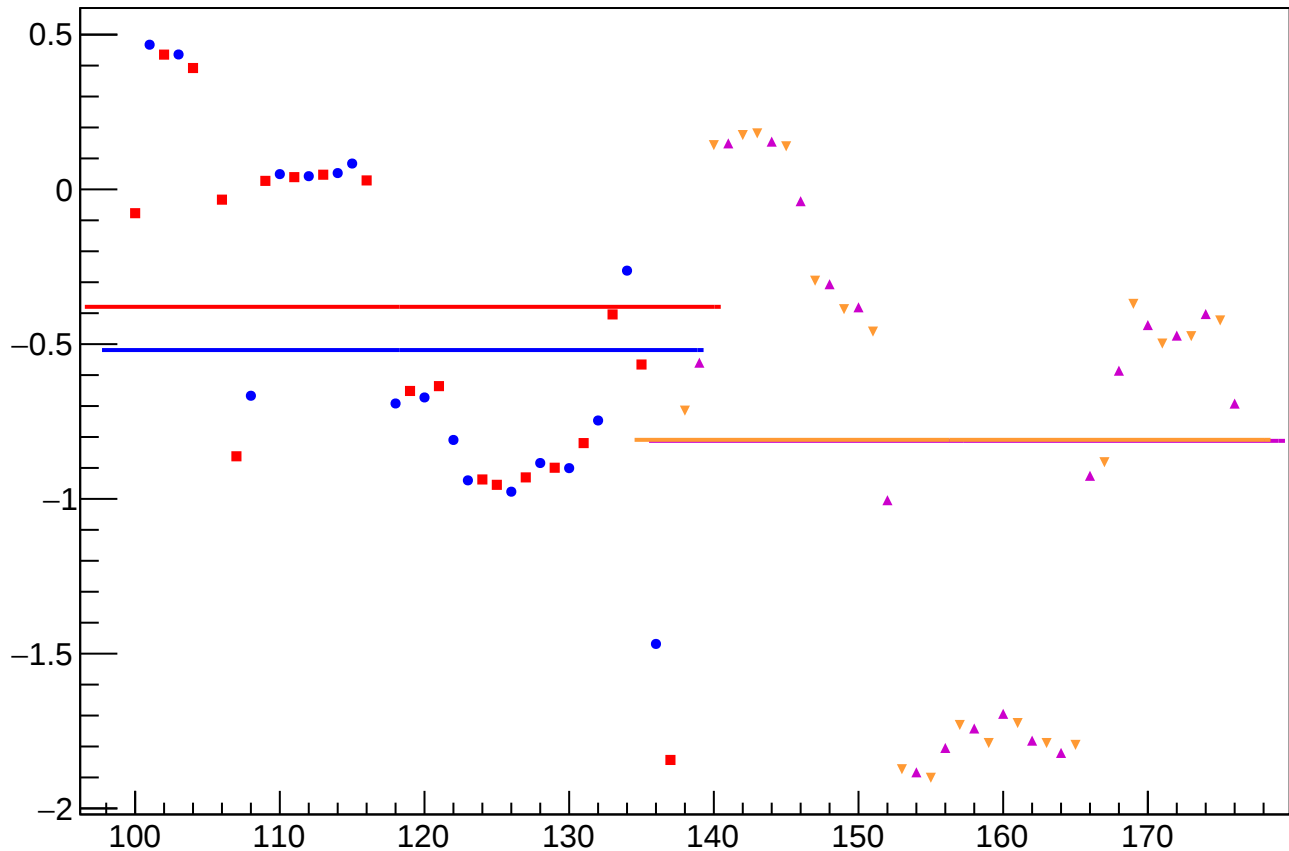
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF :3299993.0/35

Out: 0.007+/-0.000 χ^2/NDF :4004848.9/38

All: 0.007+/-0.000 χ^2/NDF : 7312266.7/74

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 $\chi^2/\text{NDF}: 339383872.4/16$

Left Out: -0.809 ± 0.000 $\chi^2/\text{NDF}: 1081657273.6/19$

Right Out: -0.379 ± 0.000 $\chi^2/\text{NDF}: 268621179.0/18$

Left In: -0.812 ± 0.000 $\chi^2/\text{NDF}: 919114144.6/18$

Left: -0.811 ± 0.000 $\chi^2/\text{NDF}: 2000781458.1/38$

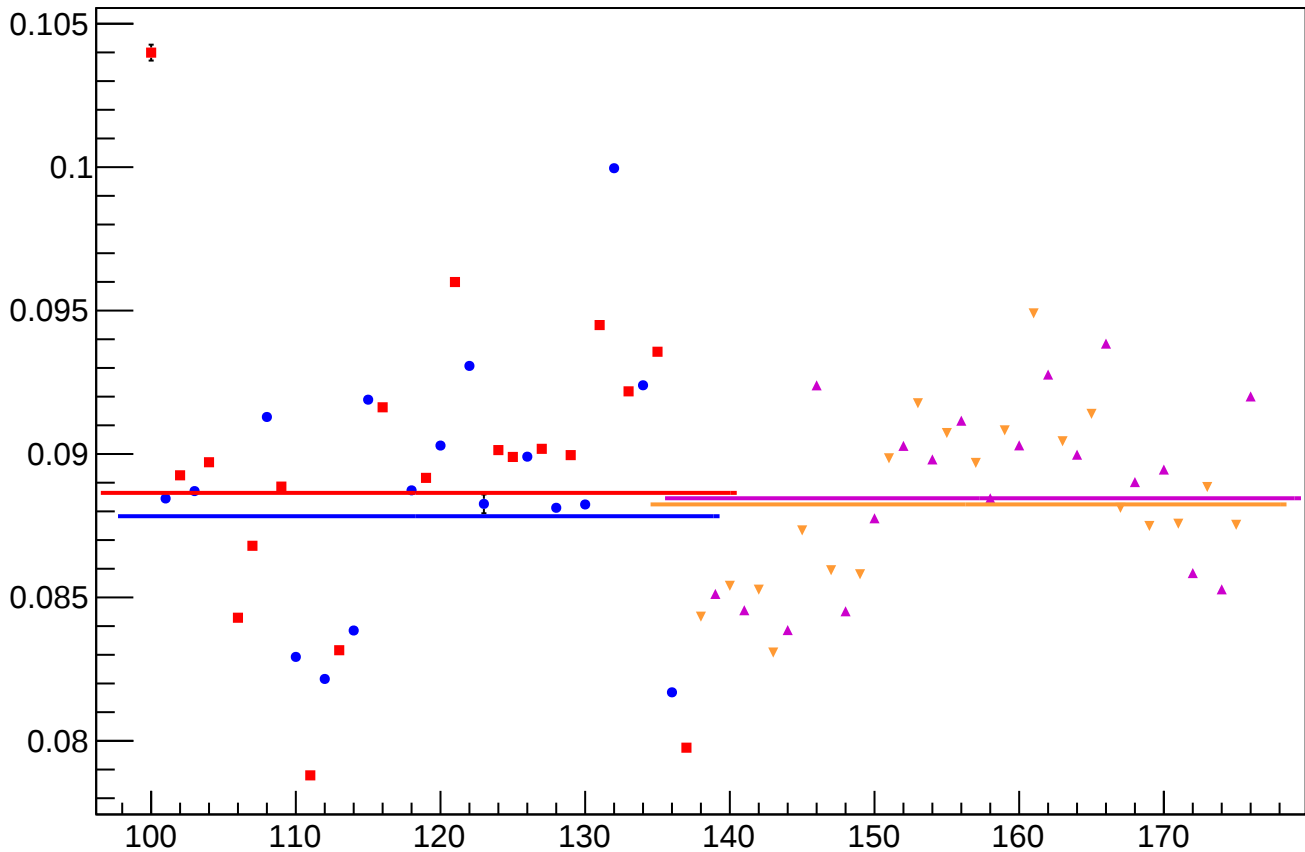
Right: -0.448 ± 0.000 $\chi^2/\text{NDF}: 616632603.2/35$

In: -0.719 ± 0.000 $\chi^2/\text{NDF}: 1309345933.1/35$

Out: -0.672 ± 0.000 $\chi^2/\text{NDF}: 1463645317.2/38$

All: -0.695 ± 0.000 $\chi^2/\text{NDF}: 2776114227.9/77$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 34954.4/16

Left Out: 0.088 $\pm$ 0.000 χ^2 /NDF:29794.3/19

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 39722.9/18

Left In: 0.088 $\pm$ 0.000 χ^2 /NDF:33298.7/18

Left: 0.088 $\pm$ 0.000 χ^2 /NDF: 63179.7/38

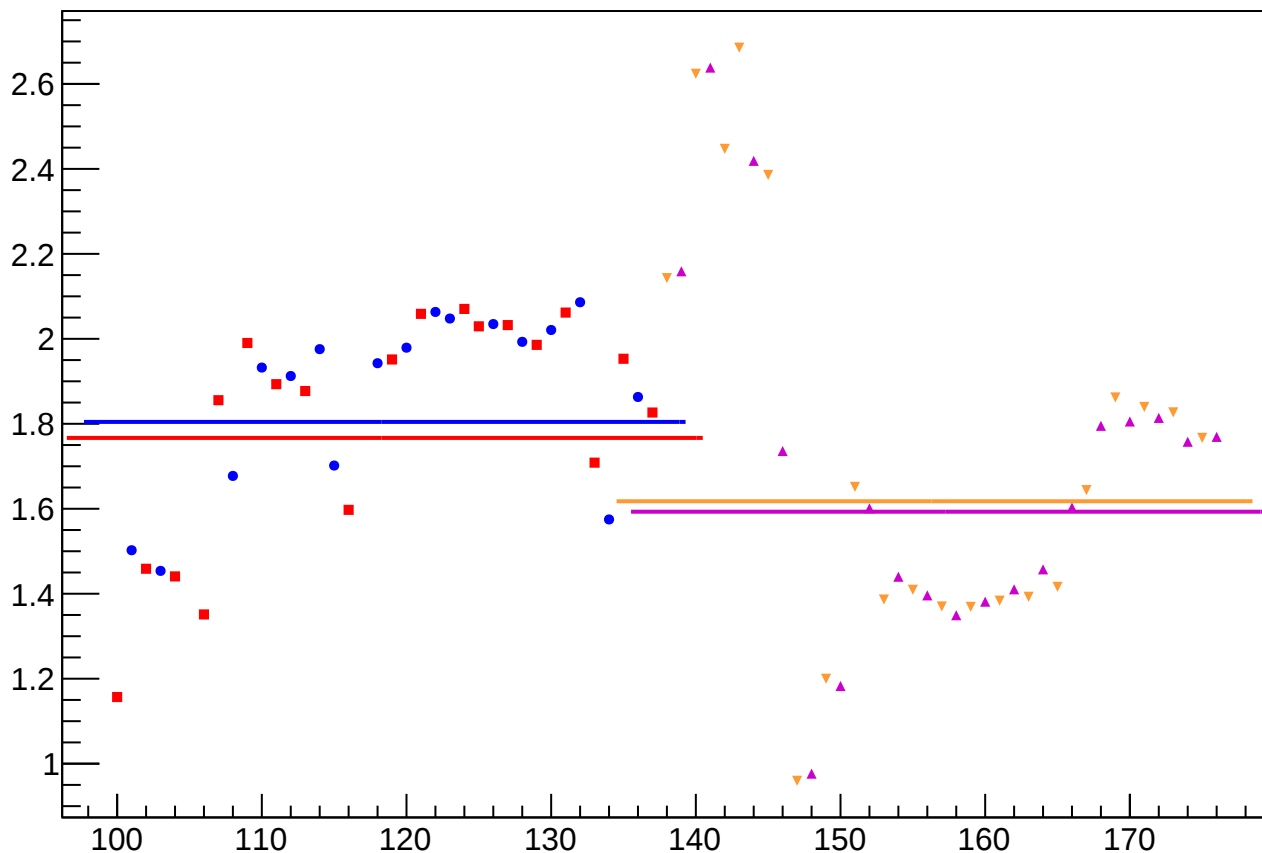
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 75262.5/35

In: 0.088 $\pm$ 0.000 χ^2 /NDF:68716.3/35

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:69715.4/38

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 138467.3/74

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.618 $\pm$ 0.000 χ^2 /NDF: 25281612424.1/19

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: 1.606 $\pm$ 0.000 χ^2 /NDF: 45057710685.5/38

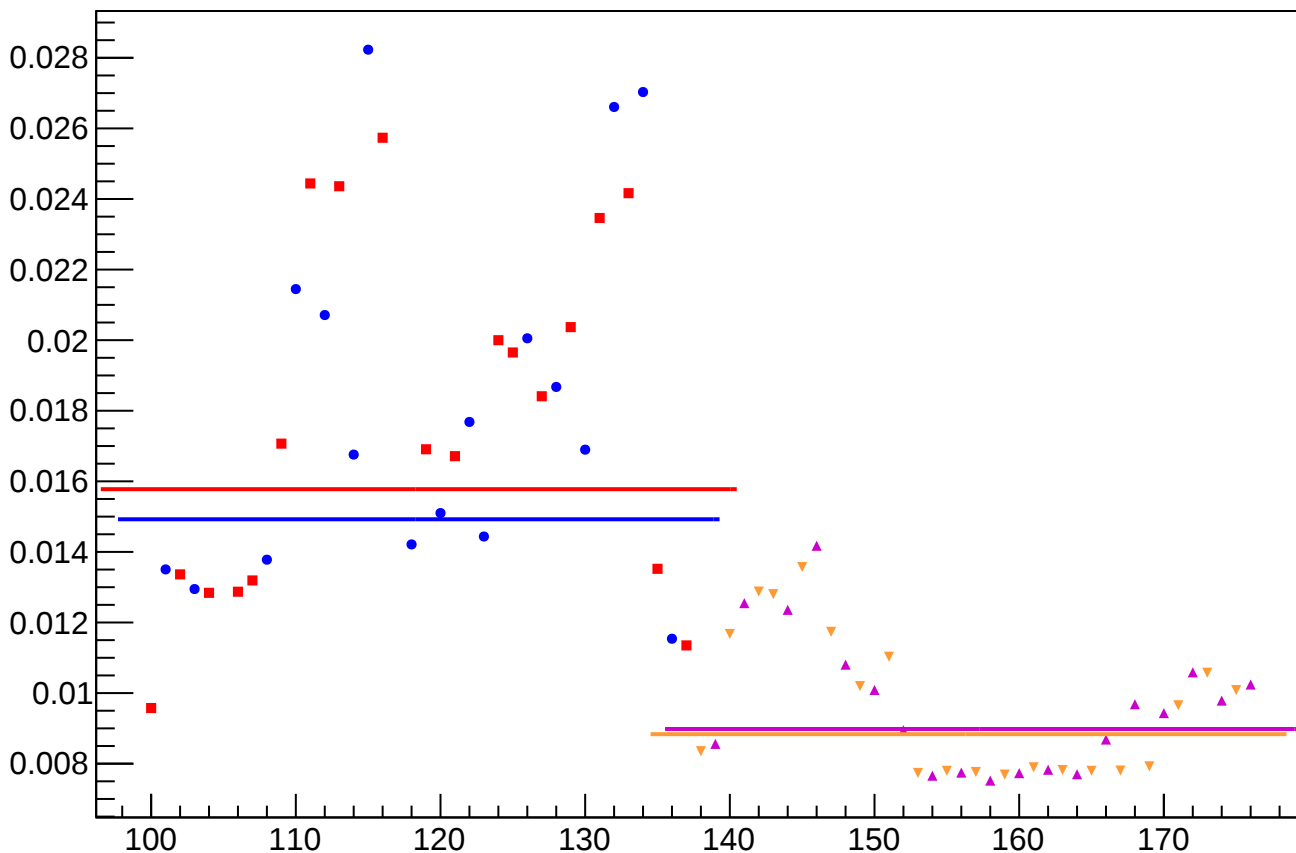
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.621 $\pm$ 0.000 χ^2 /NDF: 21880484808.6/35

Out: 1.636 $\pm$ 0.000 χ^2 /NDF: 27465170040.5/38

All: 1.629 $\pm$ 0.000 χ^2 /NDF: 49365734330.0/7

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 : 925277.0/19

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 : 1743170.0/38

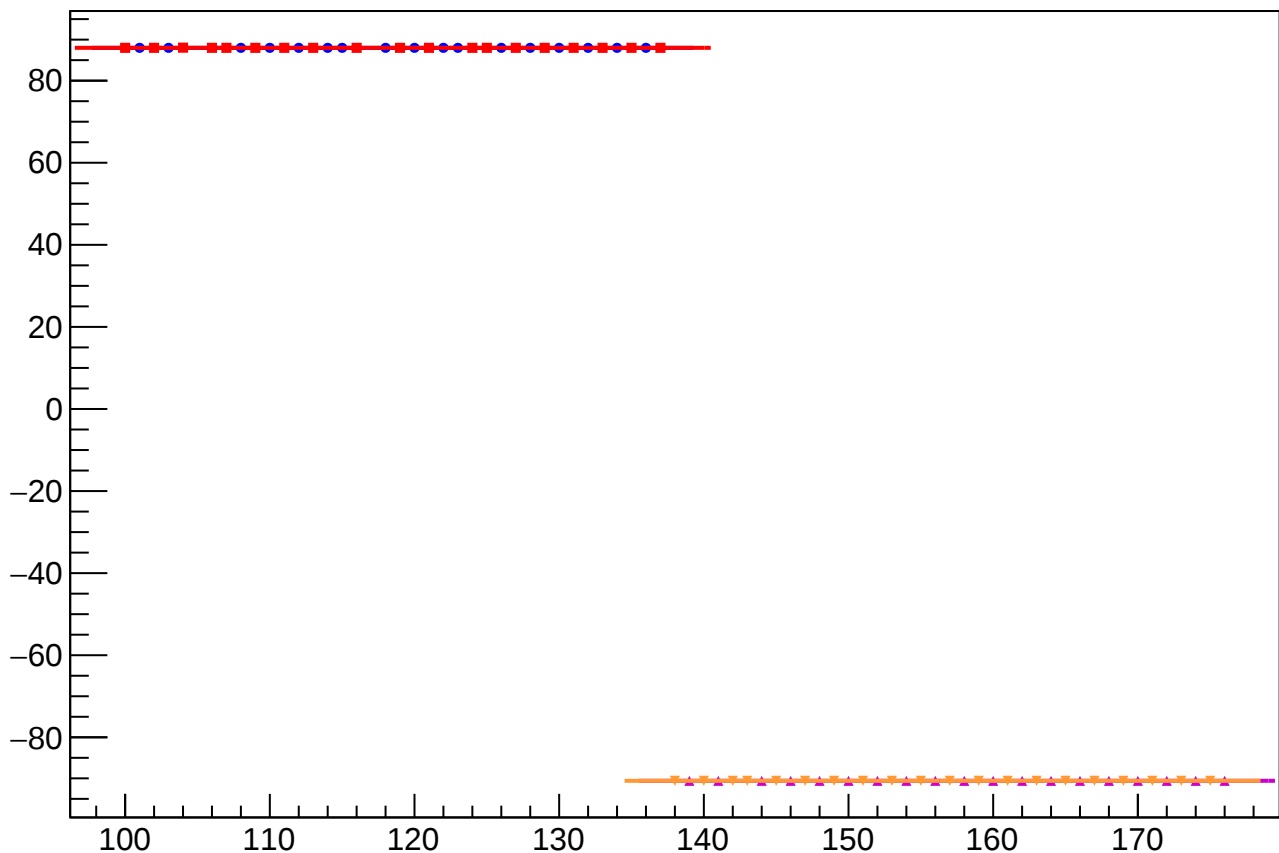
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3038000.9/35

Out: 0.010+/-0.000 χ^2/NDF : 3767403.4/38

All: 0.010+/-0.000 χ^2/NDF : 6807721.5/74

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 : 5932032.1/19

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 : 13219541.7/38

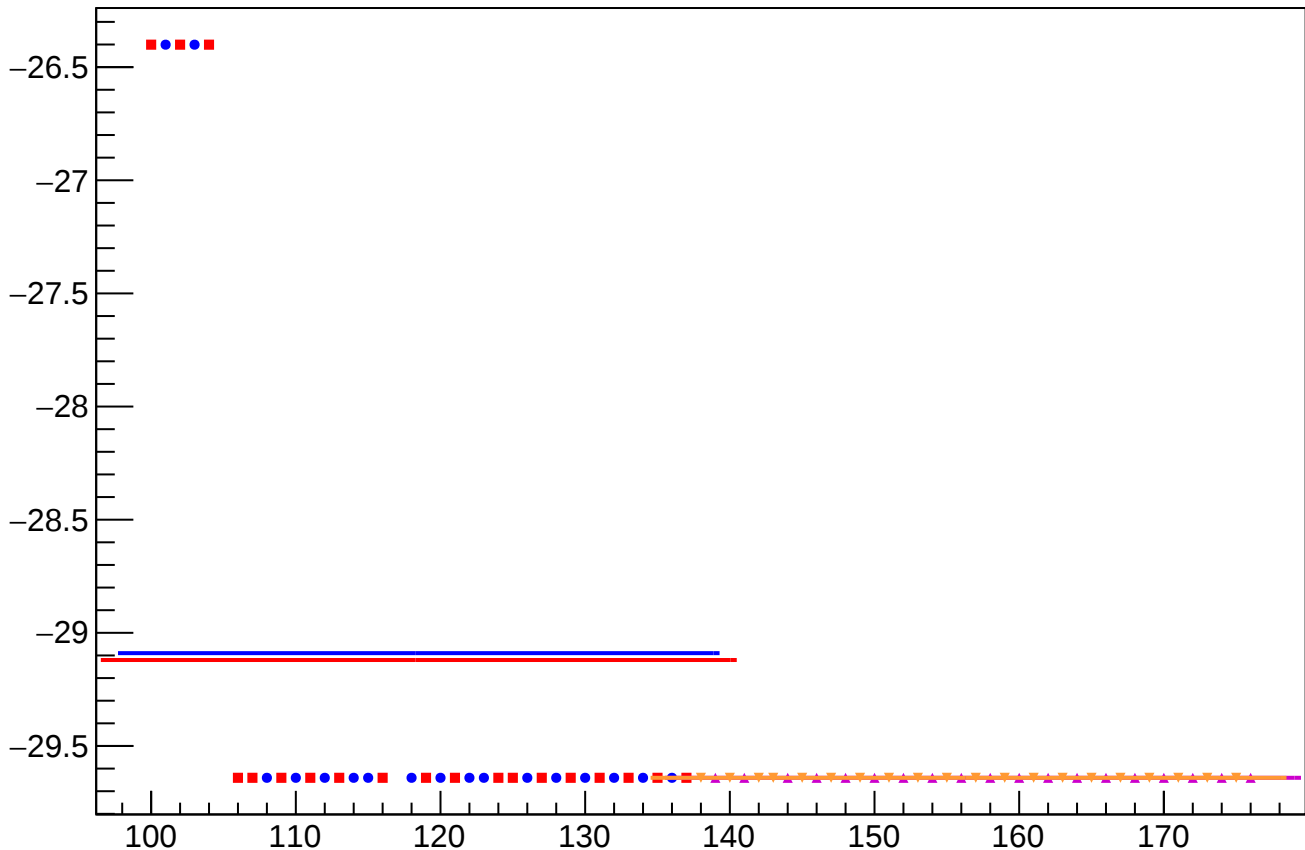
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -34.514+/-0.000 χ^2/NDF : 15185507379113098

Out: -33.868+/-0.000 χ^2/NDF : 1571543353009154

All: -34.186+/-0.000 χ^2/NDF : 309014092464

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 : 226636.6/19

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 : 392070.2/38

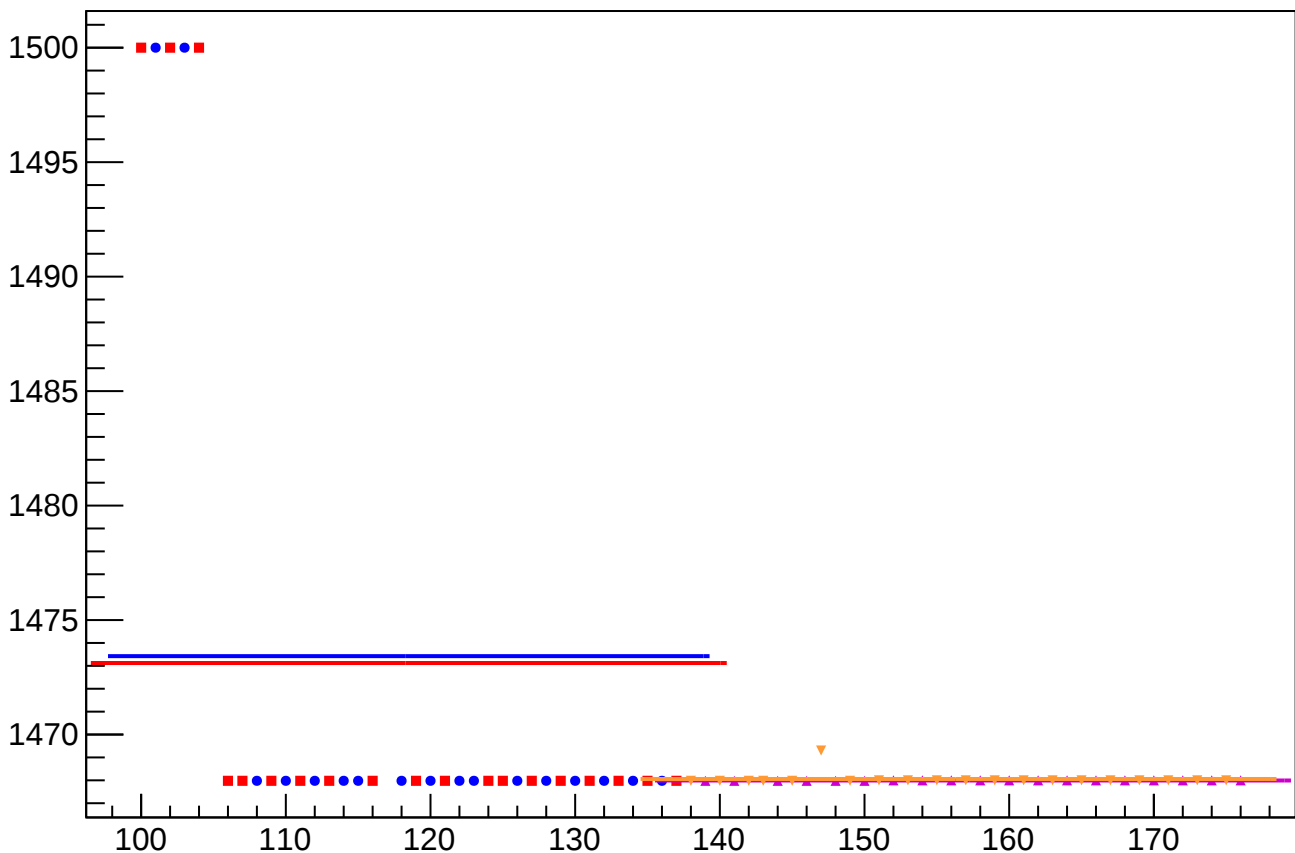
Right: -29.105+/-0.000 χ^2/NDF : 205050154576273.0/16

In: -29.468+/-0.000 χ^2/NDF : 11725771699547373.0/16

Out: -29.475+/-0.000 χ^2/NDF : 1155576546942343.0/16

All: -29.472+/-0.000 χ^2/NDF : 232821921962.0/16

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000

χ^2/NDF : 100421295828245505125784497044848640.0/16

Left Out: 1468.059+/-0.000

χ^2/NDF : 126891306721397132257831331823616.0/19

Right Out: 1473.124+/-0.000

χ^2/NDF : 99833021788859785886082809393577984.0/18

Left In: 1467.993+/-0.000

χ^2/NDF : 134172823188822308703673778176.0/18

Left: 1468.026+/-0.000 χ^2/NDF : 130410724920289

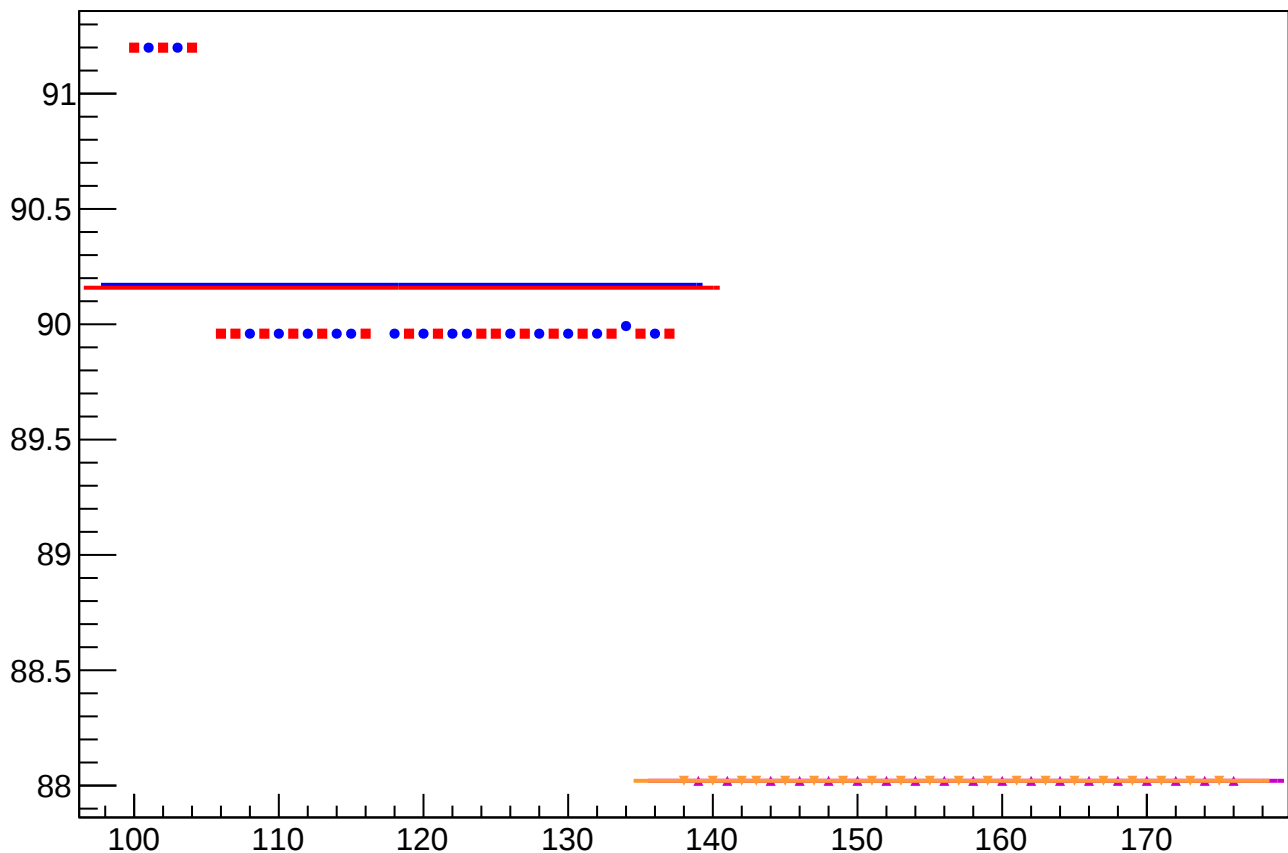
Right: 1473.271+/-0.000 χ^2/NDF : 20028613298037

In: 1469.698+/-0.000 χ^2/NDF : 1144642202955497

Out: 1469.668+/-0.000 χ^2/NDF : 112598154175494

All: 1469.683+/-0.000 χ^2/NDF : 22706340113

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 : 4681163.7/19

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 : 10207885.4/38

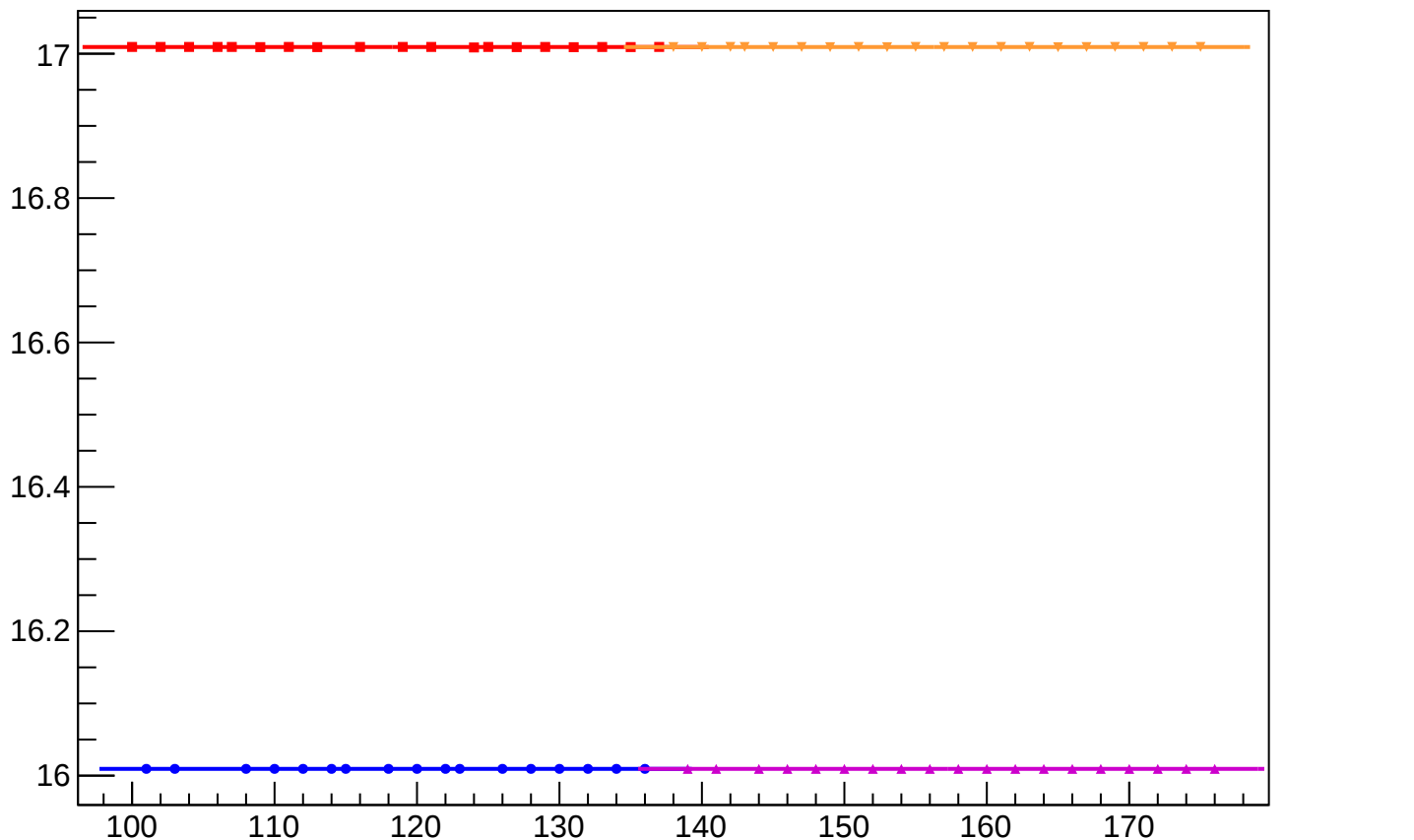
Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

In: 88.696+/-0.000 χ^2/NDF : 235180746746514154

Out: 88.700+/-0.000 χ^2/NDF : 24013042843179550

All: 88.698+/-0.000 χ^2/NDF : 4753127655114

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 : 23069002005628370915688448.0/19

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: 16.513+/-0.000 χ^2/NDF : 71155540659802371

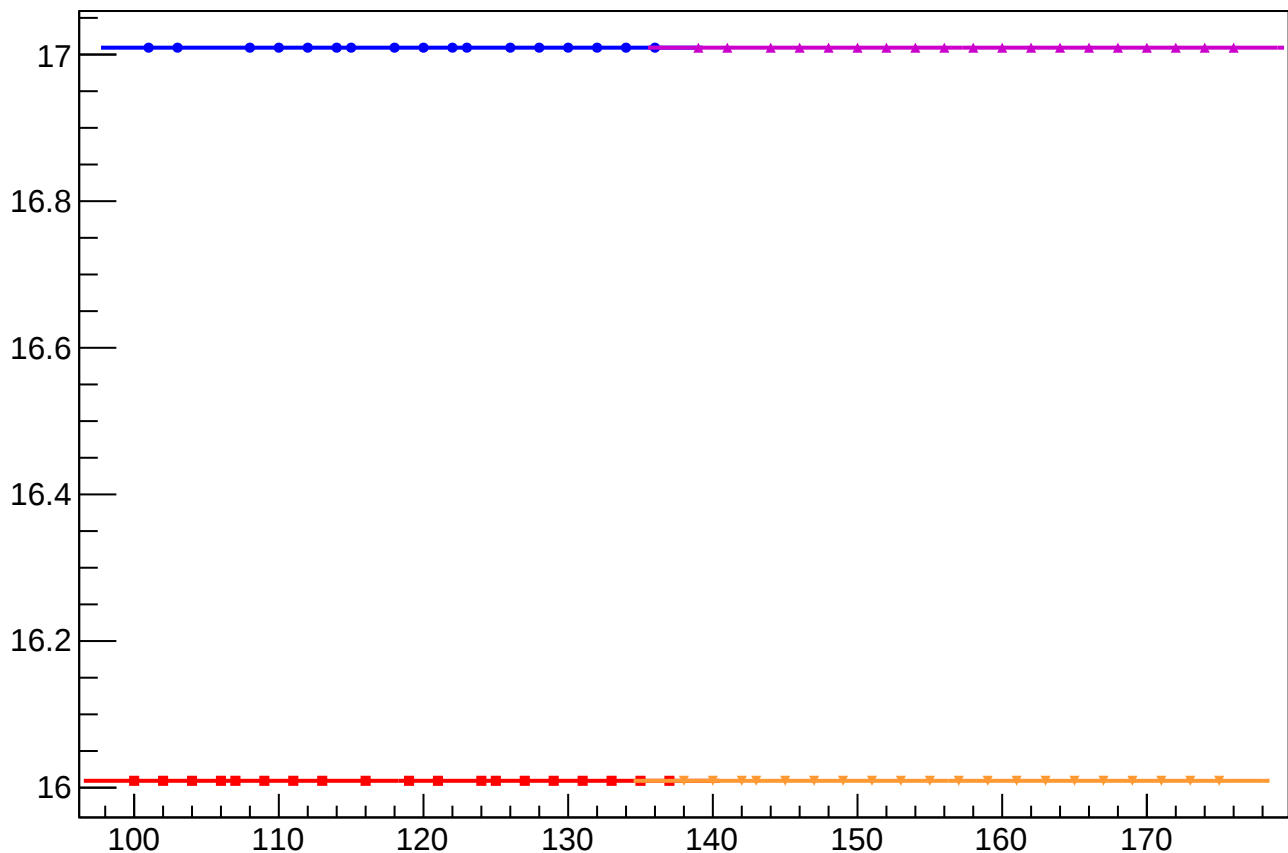
Right: 16.506+/-0.000 χ^2/NDF : 3289281212306816

In: 16.009+/-0.000 χ^2/NDF : 129071626656384253

Out: 17.009+/-0.000 χ^2/NDF : 35885832342457930

All: 16.511+/-0.000 χ^2/NDF : 1040519950956

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: 91520.5/19

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: 16.502+/-0.000 χ^2 /NDF: 75156317146745867

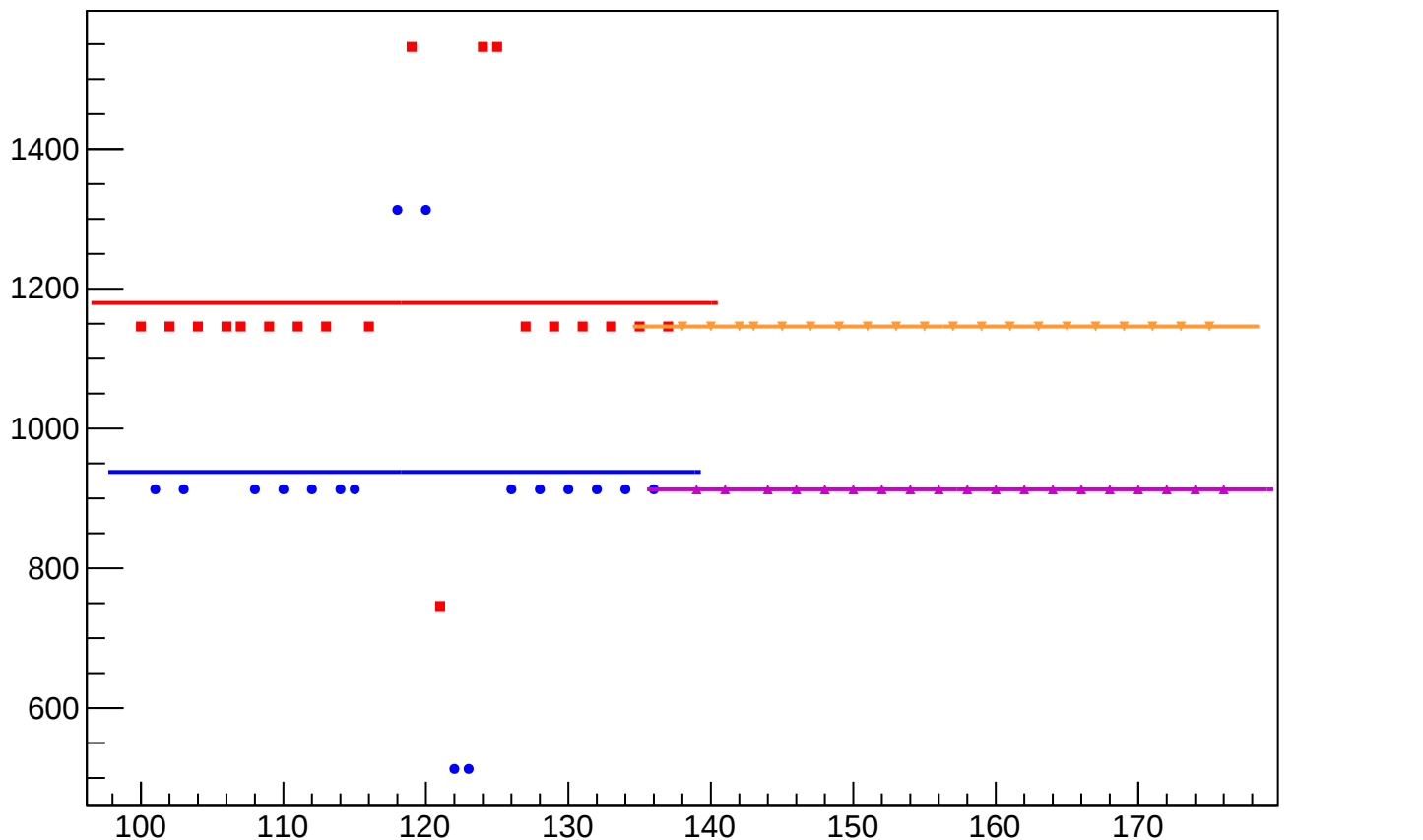
Right: 16.490+/-0.000 χ^2 /NDF: 3437400145243126

In: 17.009+/-0.000 χ^2 /NDF: 116004156339336926

Out: 16.009+/-0.000 χ^2 /NDF: 288622.1/38

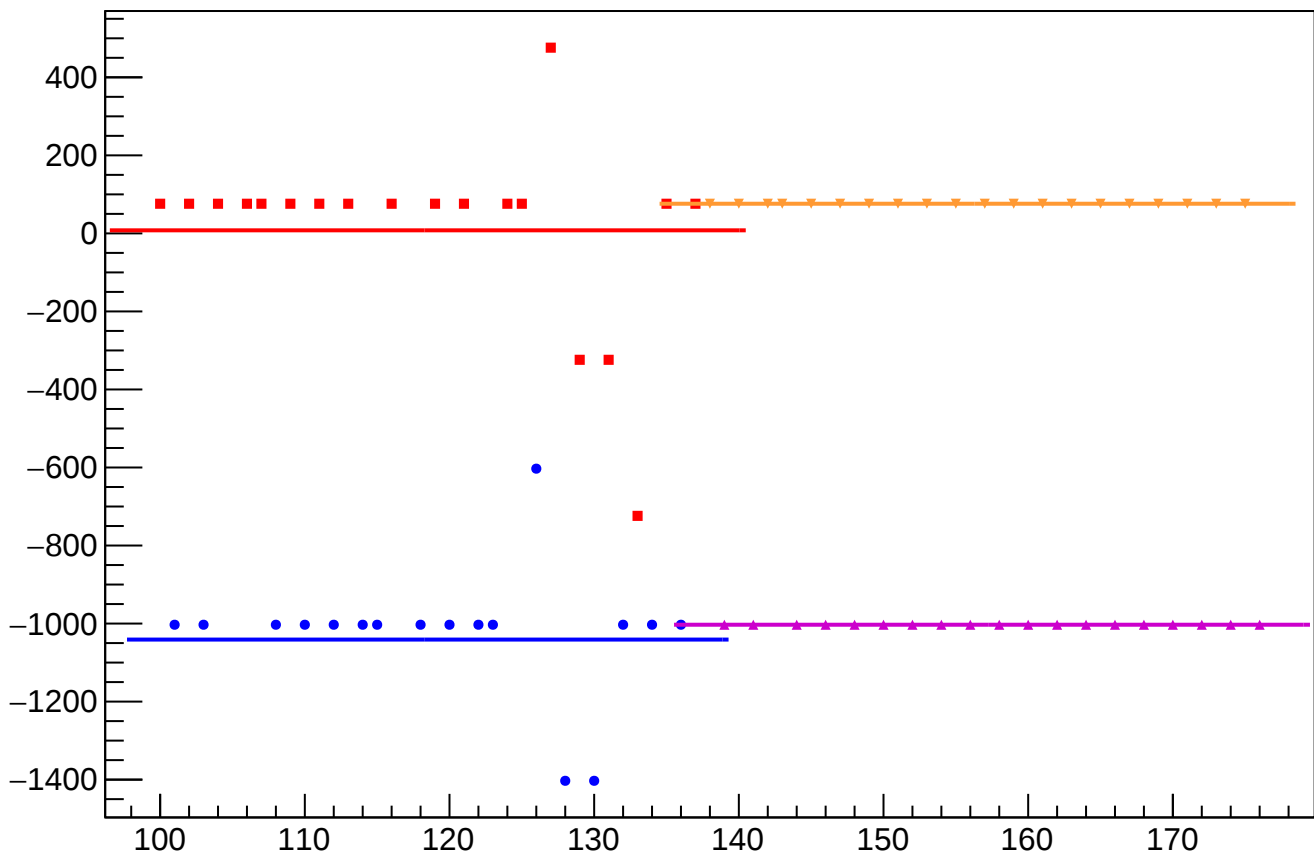
All: 16.498+/-0.000 χ^2 /NDF: 1095426548361

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1030.833 $\pm$ 0.000 χ^2/NDF : 416263524431748
 Right: 1061.185 $\pm$ 0.000 χ^2/NDF : 62999129654777
 Right In: 937.779 $\pm$ 0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011 $\pm$ 0.000 χ^2/NDF : 4724563426576791584603373568.0/19
 Right Out: 1179.805 $\pm$ 0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995 $\pm$ 0.000 χ^2/NDF : 24371317349658929596402237440.0/18
 All: 1040.420 $\pm$ 0.000 χ^2/NDF : 10551794918

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030+/-0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 10538331205992568207813115904.0/19
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 2290209791729334035144507392.0/18
 All: -472.772+/-0.000 χ^2/NDF : 13507151763