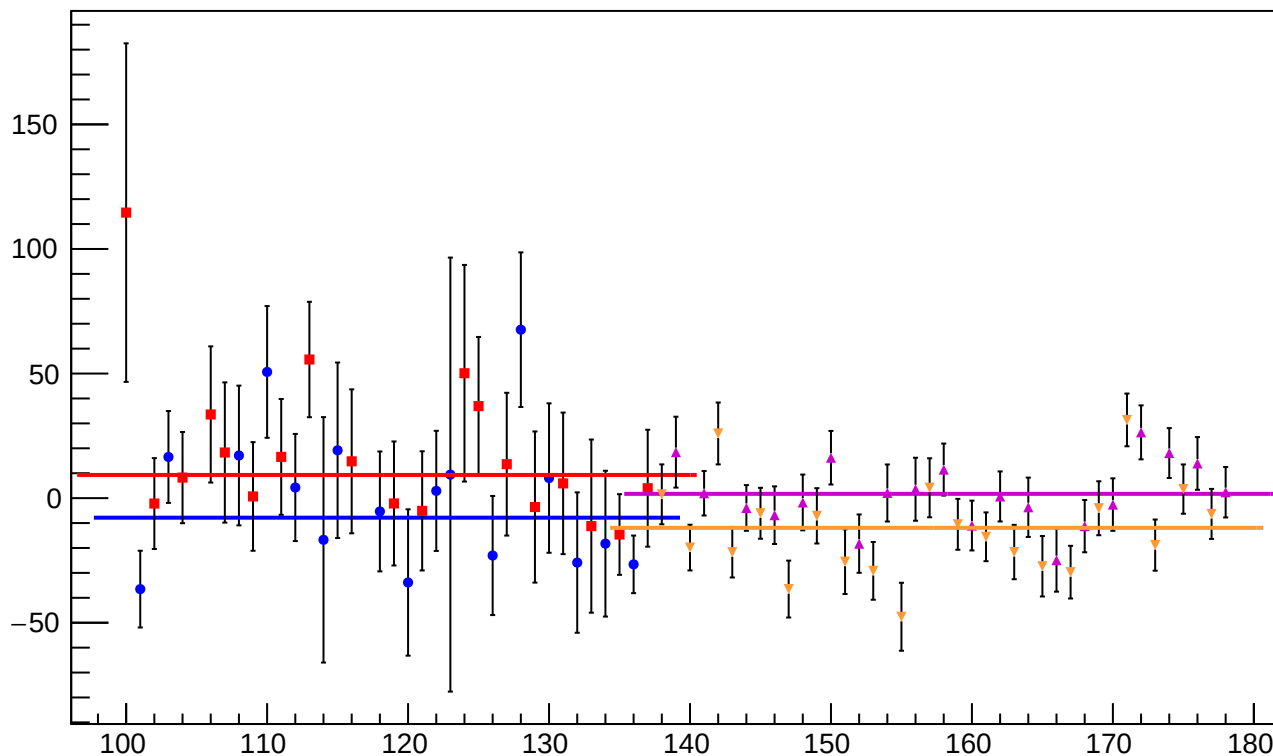


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

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

Left Out: -11.904 ± 2.373

$\chi^2/\text{NDF}: 55.3/20$

Right Out: 9.309 ± 5.677

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

Left In: 1.724 ± 2.408

$\chi^2/\text{NDF}: 25.2/19$

Left: -5.190 ± 1.690

$\chi^2/\text{NDF}: 96.8/40$

Right: 0.629 ± 3.990

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

In: 0.235 ± 2.213

$\chi^2/\text{NDF}: 50.3/36$

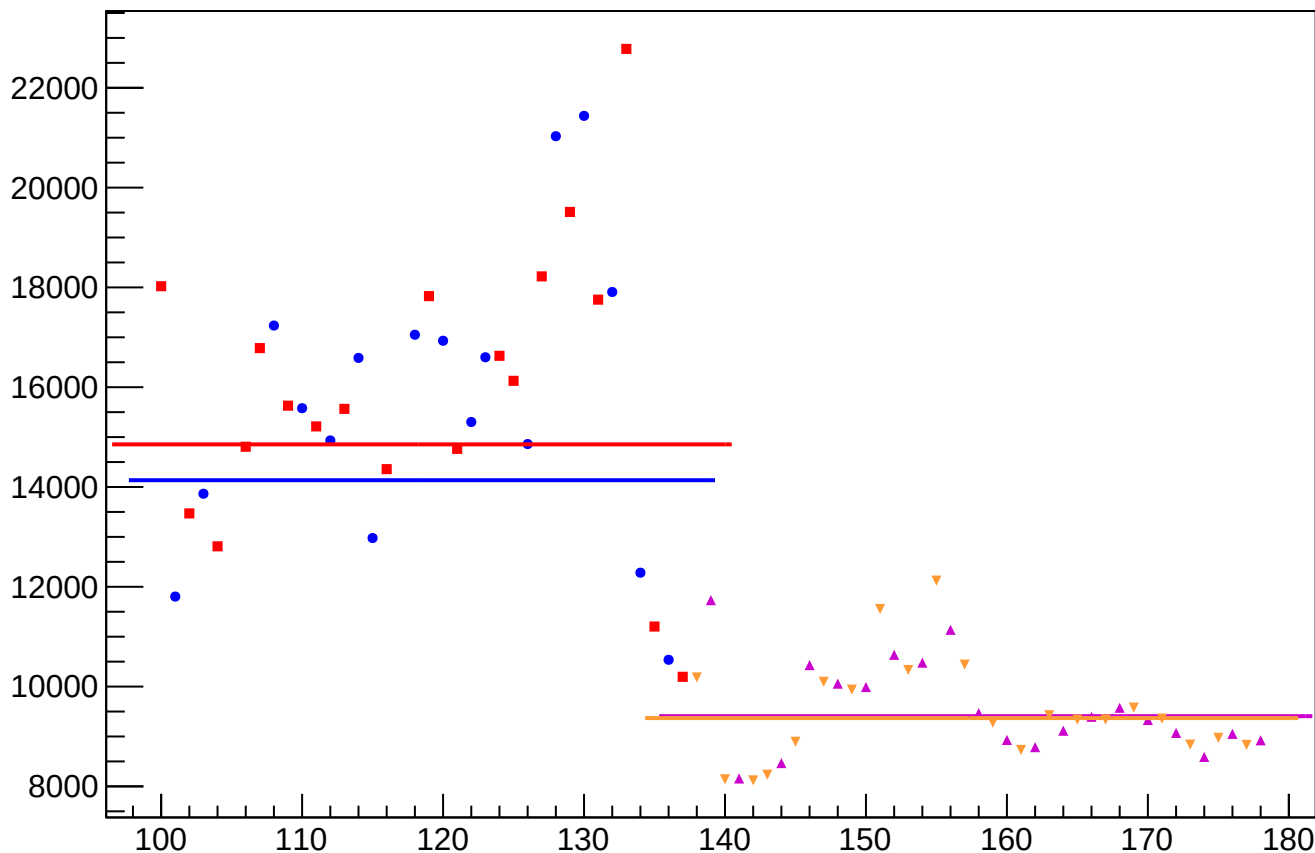
Out: -8.749 ± 2.190

$\chi^2/\text{NDF}: 80.4/39$

All: -4.304 ± 1.556

$\chi^2/\text{NDF}: 139.0/76$

diff_bpm4aX_rms vs Slug, Sign Corrected



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

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

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

Left In: 9407.007 $\pm$ 1.703 χ^2 /NDF:255261.6/19

Left: 9387.484 $\pm$ 1.195 χ^2 /NDF: 555769.8/40

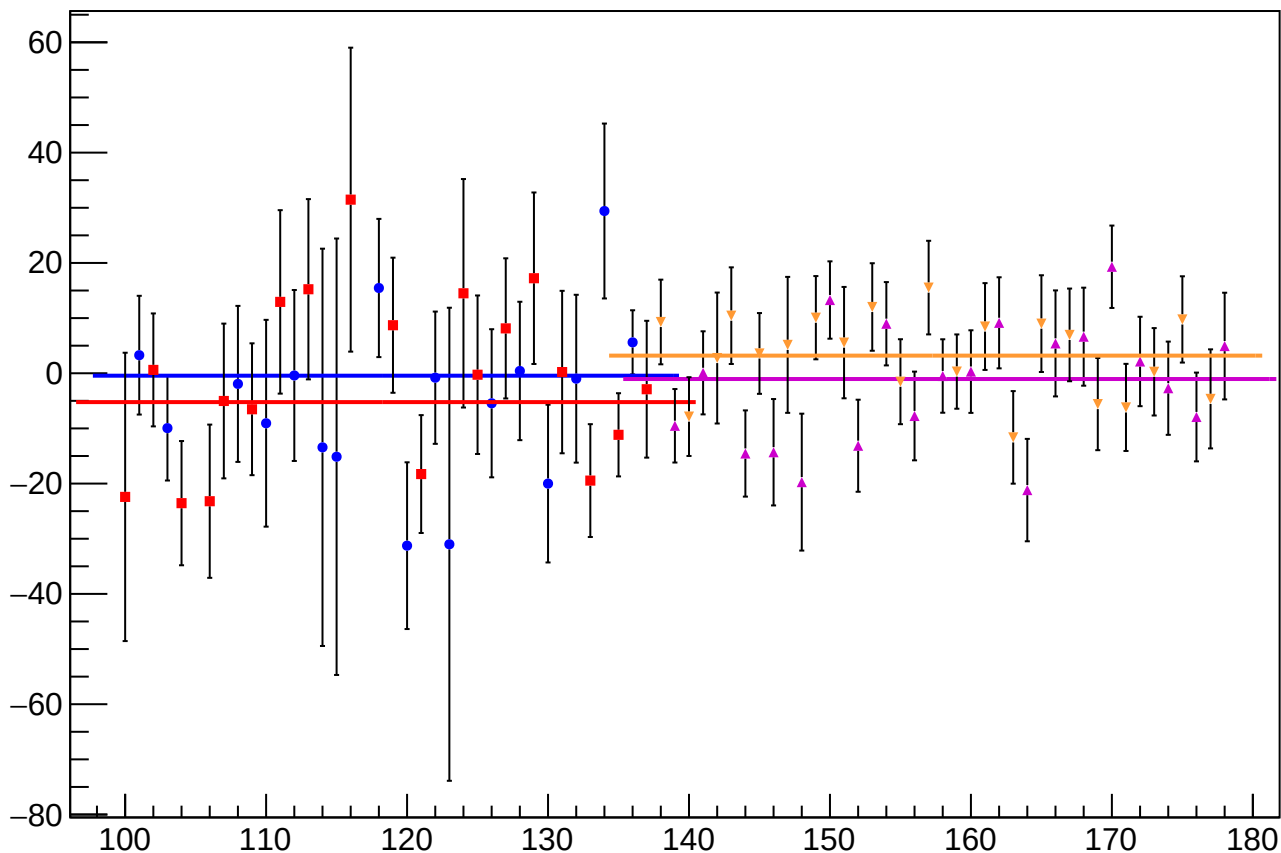
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

In: 10143.218 $\pm$ 1.565 χ^2 /NDF:2052959.3/36

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

All: 10164.085 $\pm$ 1.101 χ^2 /NDF: 4415035.3/77

diff_bpm4aY_mean vs Slug, Sign Corrected



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

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

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

Left In: -1.044 ± 1.811 χ^2/NDF : 33.7/19

Left: 1.097 ± 1.275 χ^2/NDF : 53.3/40

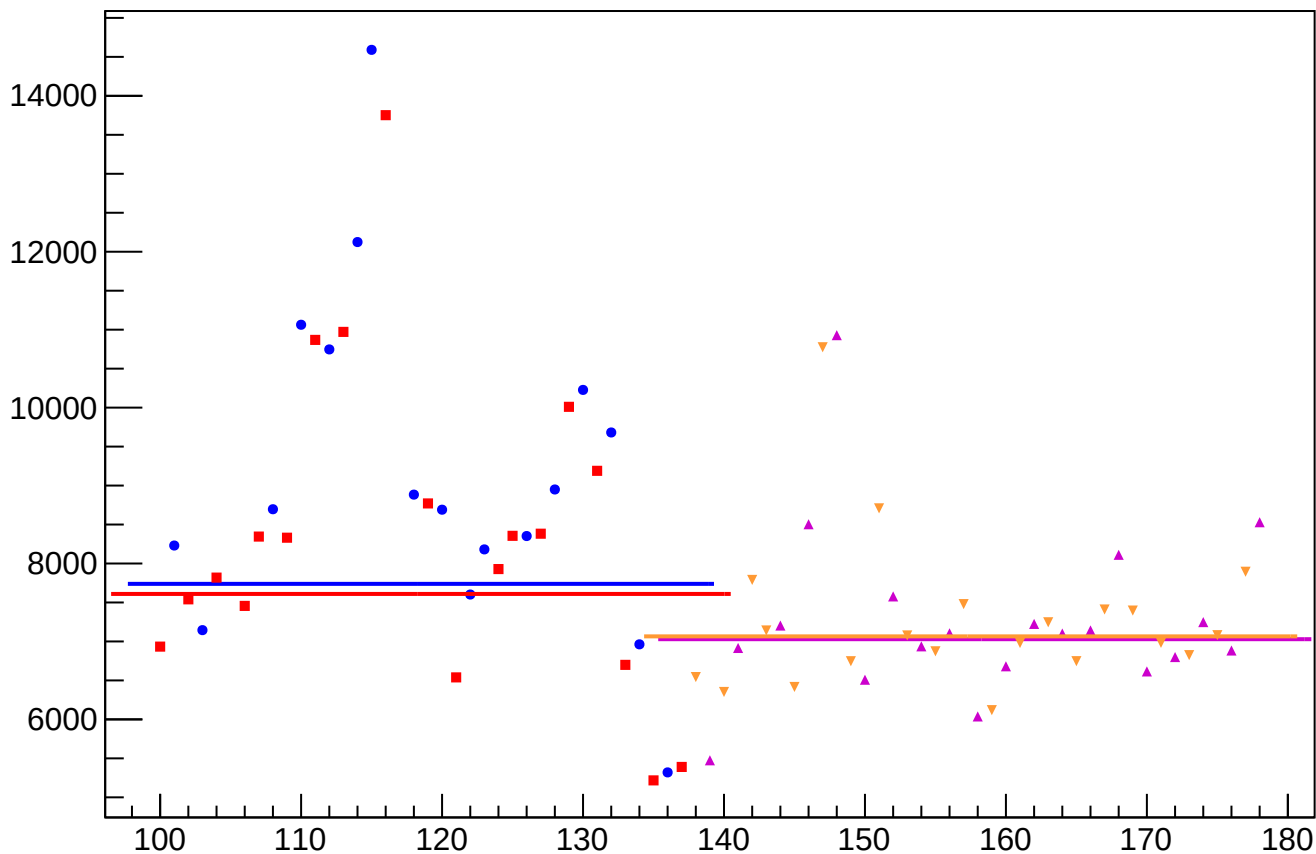
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -0.888 ± 1.560 χ^2/NDF : 48.3/36

Out: 0.906 ± 1.531 χ^2/NDF : 42.2/39

All: 0.026 ± 1.093 χ^2/NDF : 91.2/76

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7065.130 $\pm$ 1.269 χ^2 /NDF:365129.7/20

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

Left In: 7028.950 $\pm$ 1.281 χ^2 /NDF:512444.3/19

Left: 7047.206 $\pm$ 0.901 χ^2 /NDF: 877976.9/40

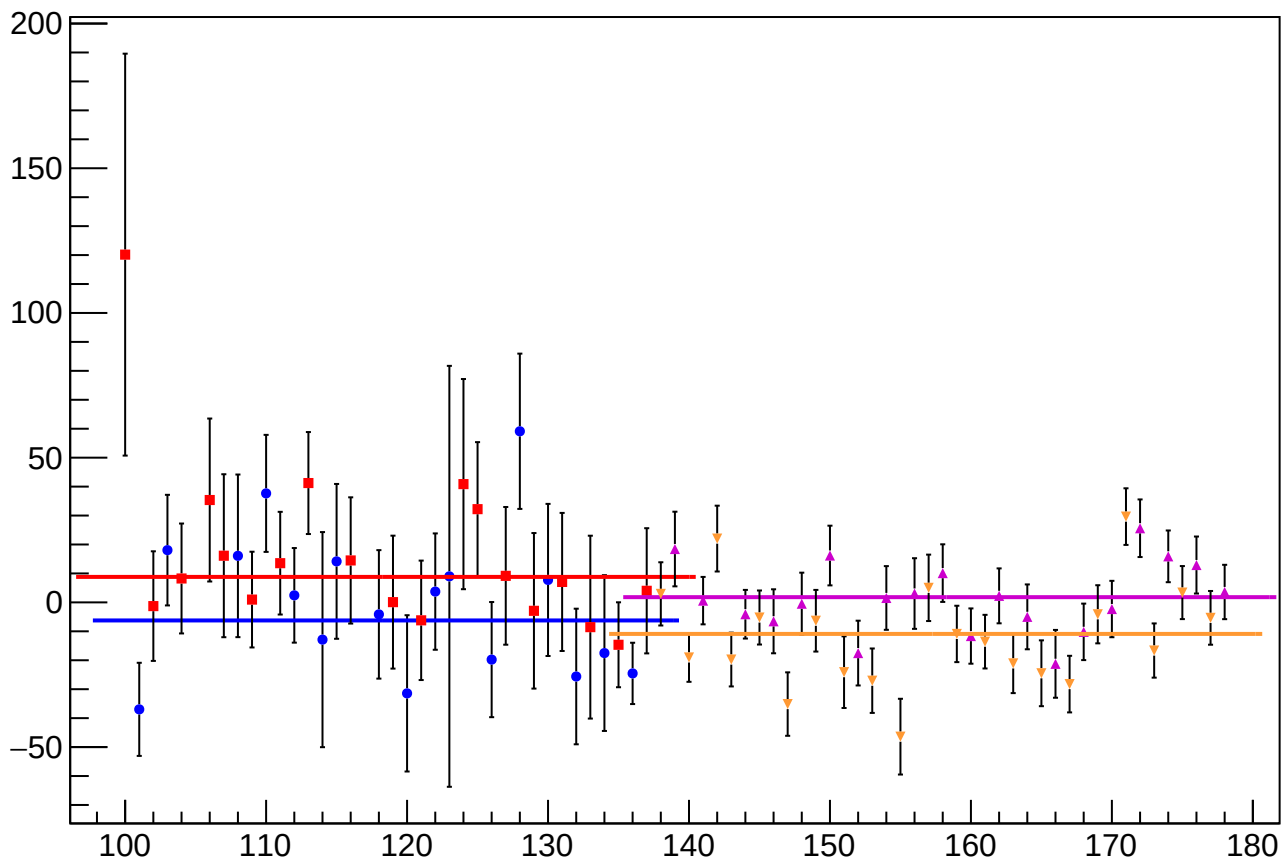
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

In: 7212.122 $\pm$ 1.103 χ^2 /NDF:1332584.8/36

Out: 7213.198 $\pm$ 1.083 χ^2 /NDF:1094377.1/39

All: 7212.670 $\pm$ 0.773 χ^2 /NDF: 2426962.4/76

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -10.899 ± 2.216 χ^2/NDF : 56.2/20

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

Left In: 1.801 ± 2.253 χ^2/NDF : 25.9/19

Left: -4.652 ± 1.580 χ^2/NDF : 98.2/40

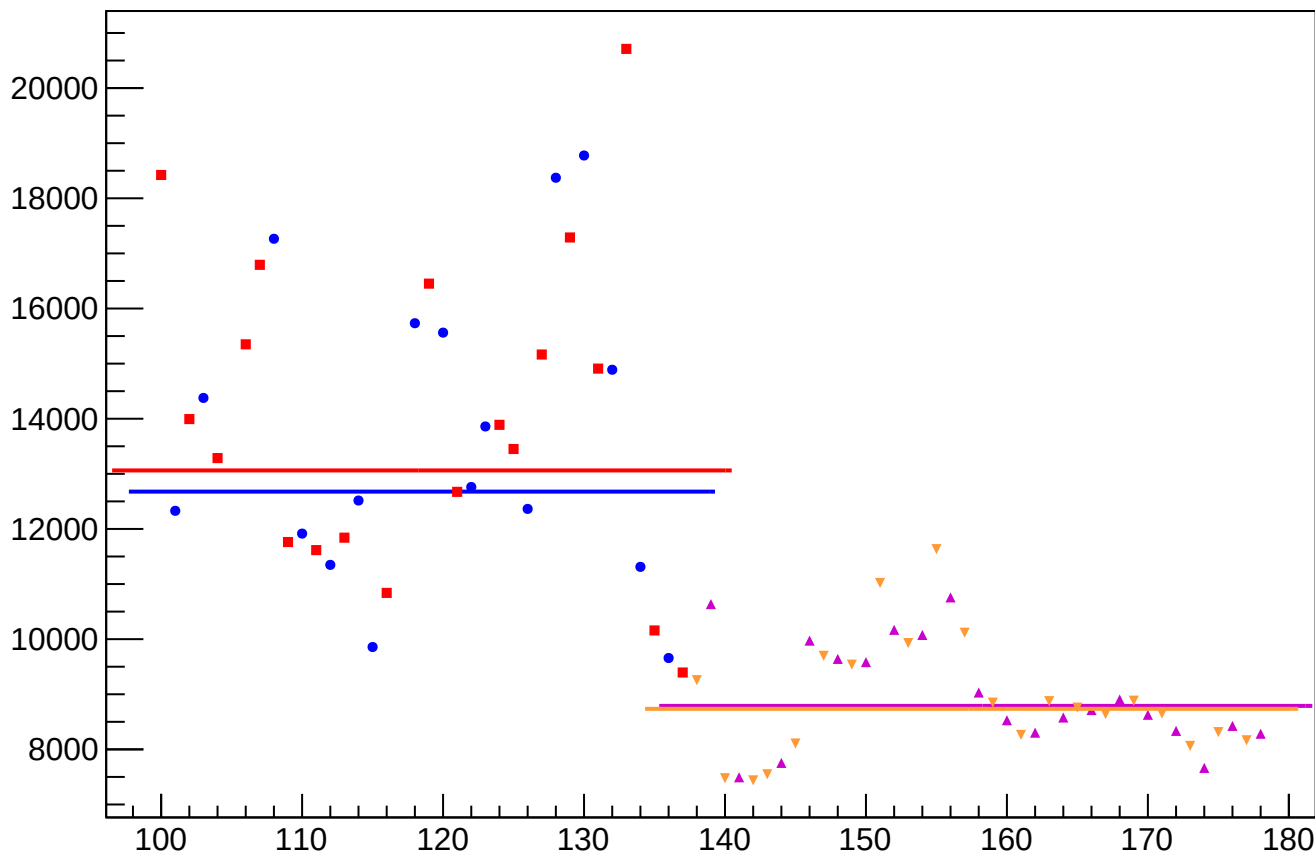
Right: 1.306 ± 3.541 χ^2/NDF : 40.9/35

In: 0.452 ± 2.055 χ^2/NDF : 51.2/36

Out: -7.663 ± 2.026 χ^2/NDF : 82.4/39

All: -3.663 ± 1.443 χ^2/NDF : 141.5/76

diff_bpm4eX_rms vs Slug, Sign Corrected



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

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

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

Left In: 8789.045 $\pm$ 1.593 χ^2 /NDF: 332585.3/19

Left: 8762.074 $\pm$ 1.117 χ^2 /NDF: 723743.7/40

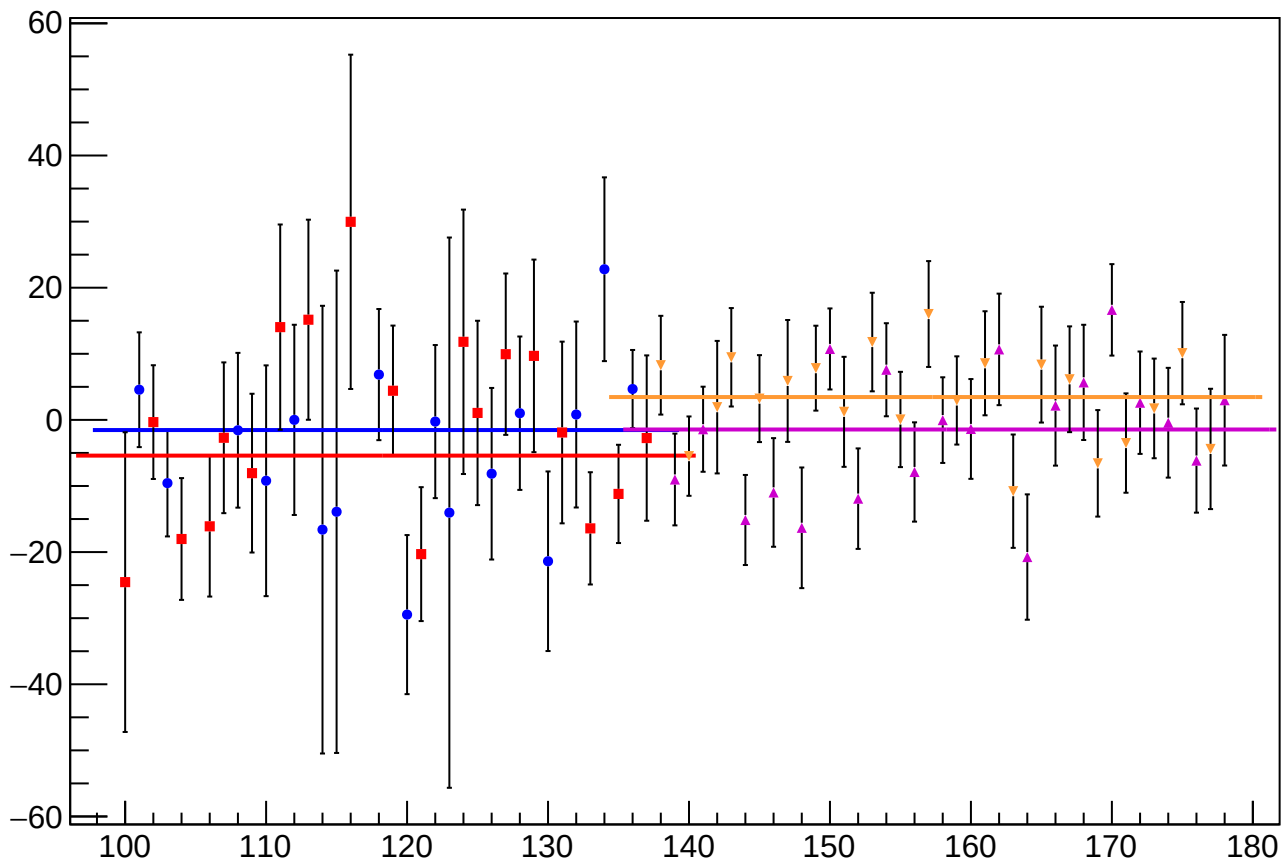
Right: 12870.370 $\pm$ 2.504 χ^2 /NDF: 1056923.6/35

In: 9441.468 $\pm$ 1.453 χ^2 /NDF: 1885903.5/36

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

All: 9444.060 $\pm$ 1.020 χ^2 /NDF: 4025420.1/76

diff_bpm4eY_mean vs Slug, Sign Corrected



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

Left Out: 3.455 $\pm$ 1.666 χ^2/NDF : 15.4/20

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

Left In: -1.453 $\pm$ 1.702 χ^2/NDF : 32.2/19

Left: 1.053 $\pm$ 1.190 χ^2/NDF : 51.9/40

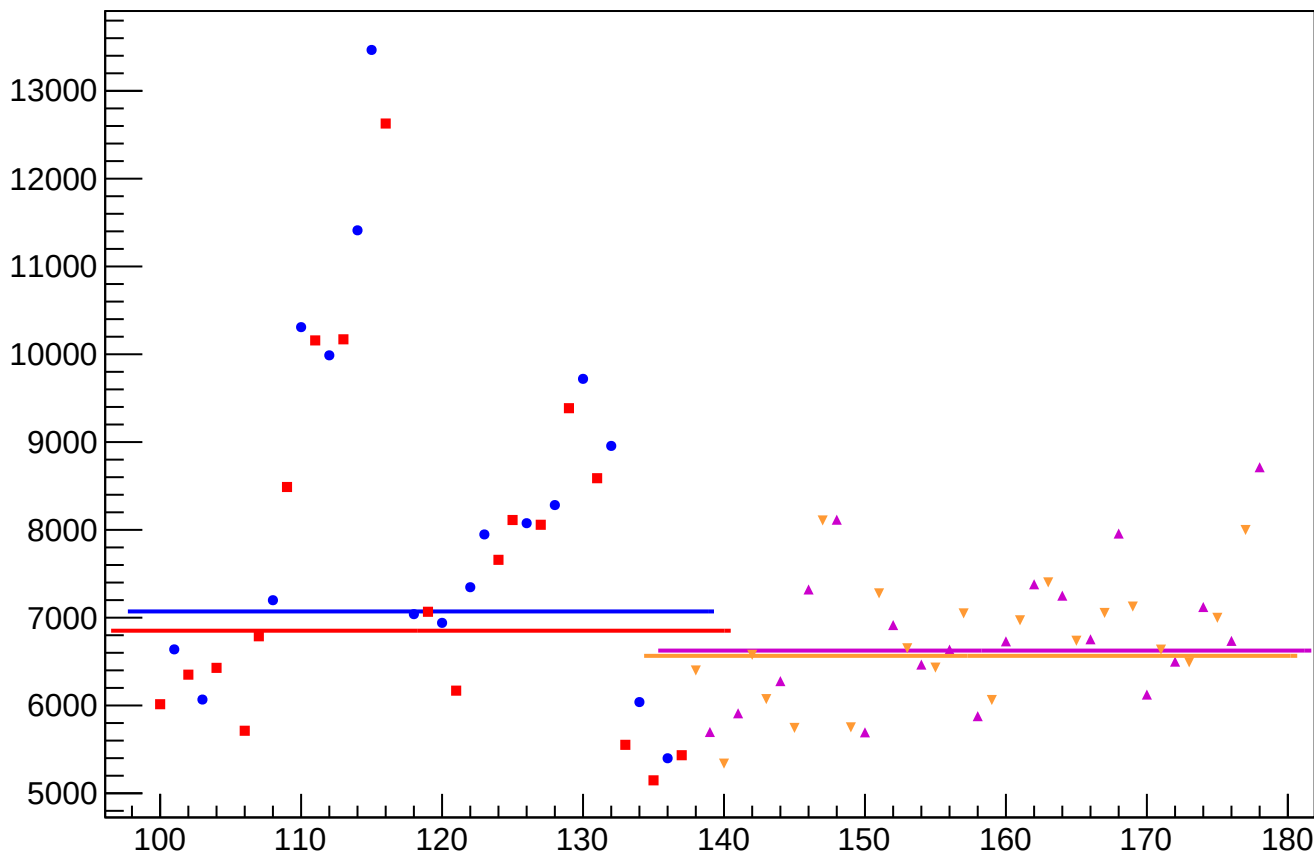
Right: -3.578 $\pm$ 1.918 χ^2/NDF : 34.4/35

In: -1.476 $\pm$ 1.453 χ^2/NDF : 47.1/36

Out: 0.931 $\pm$ 1.409 χ^2/NDF : 42.0/39

All: -0.235 $\pm$ 1.011 χ^2/NDF : 90.5/76

diff_bpm4eY_rms vs Slug, Sign Corrected



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

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

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

Left In: 6625.240+/-1.203 χ^2/NDF : 390020.8/19

Left: 6594.599+/-0.842 χ^2/NDF : 736592.6/40

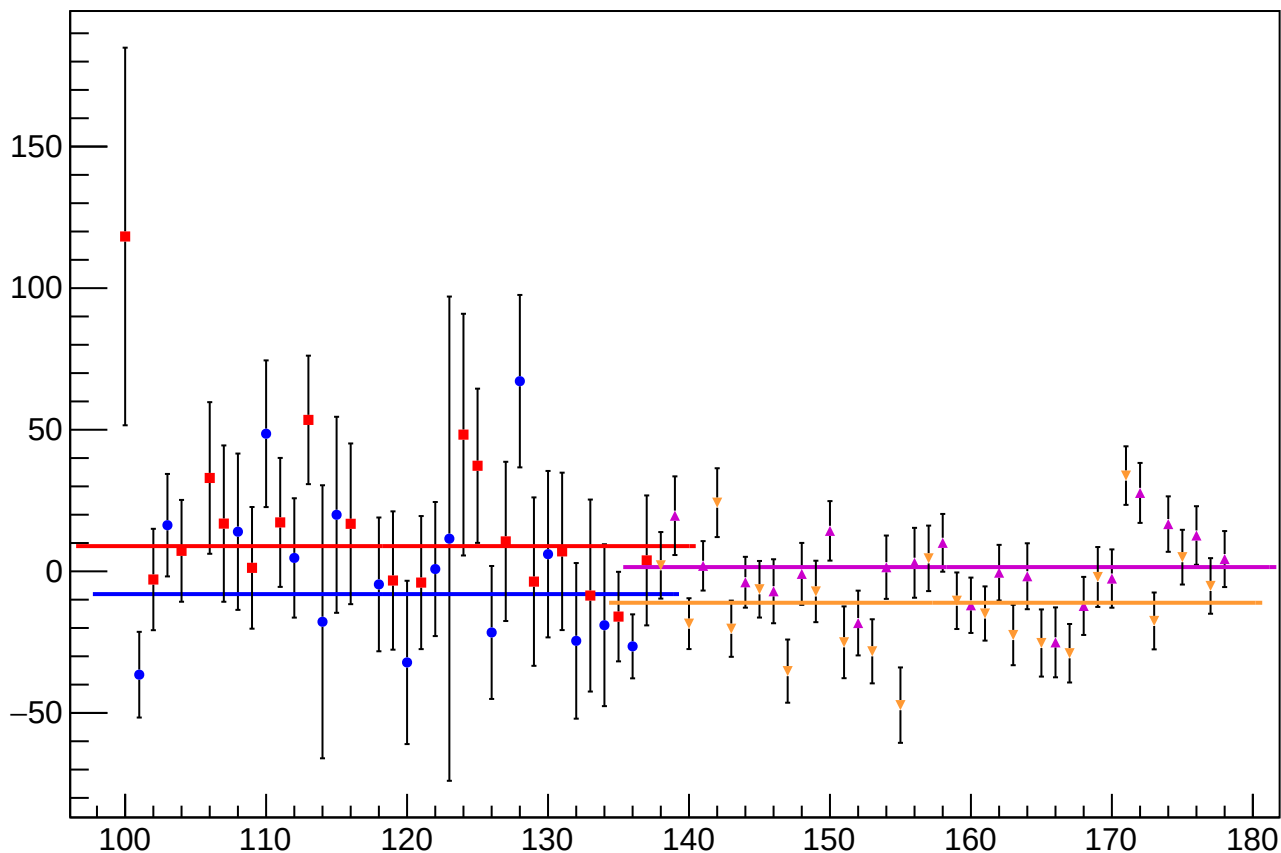
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

In: 6746.104+/-1.027 χ^2/NDF : 1027978.0/36

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

All: 6694.929+/-0.715 χ^2/NDF : 2079327.0/76

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -11.094 $\pm$ 2.320 χ^2/NDF : 57.9/20

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

Left In: 1.505 $\pm$ 2.354 χ^2/NDF : 26.2/19

Left: -4.887 $\pm$ 1.652 χ^2/NDF : 98.7/40

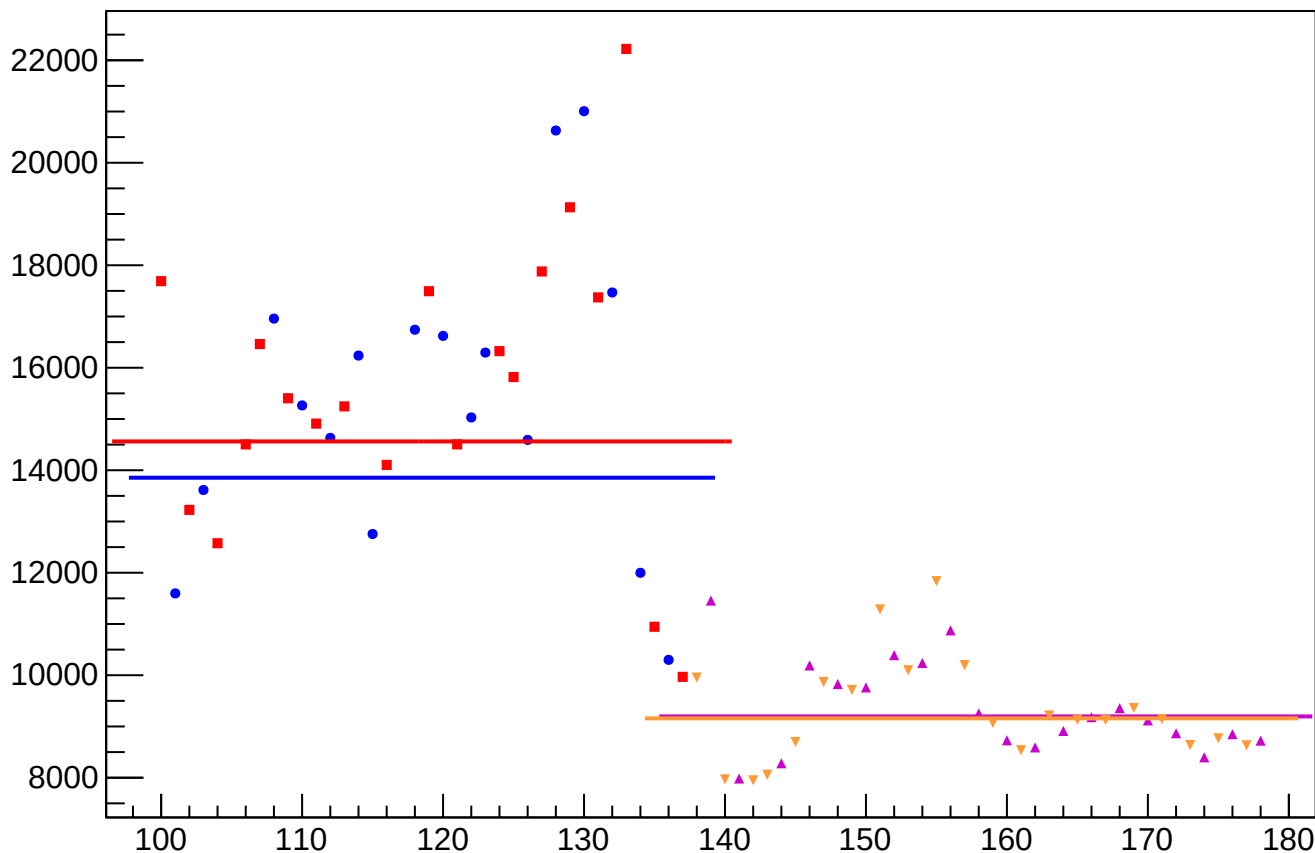
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

In: 0.026 $\pm$ 2.164 χ^2/NDF : 51.4/36

Out: -8.134 $\pm$ 2.141 χ^2/NDF : 82.6/39

All: -4.097 $\pm$ 1.522 χ^2/NDF : 141.1/76

diff_bpm4acX_rms vs Slug, Sign Corrected



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

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

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

Left In: 9195.901 $\pm$ 1.665 χ^2 /NDF:252493.3/19

Left: 9176.999 $\pm$ 1.168 χ^2 /NDF: 549885.1/40

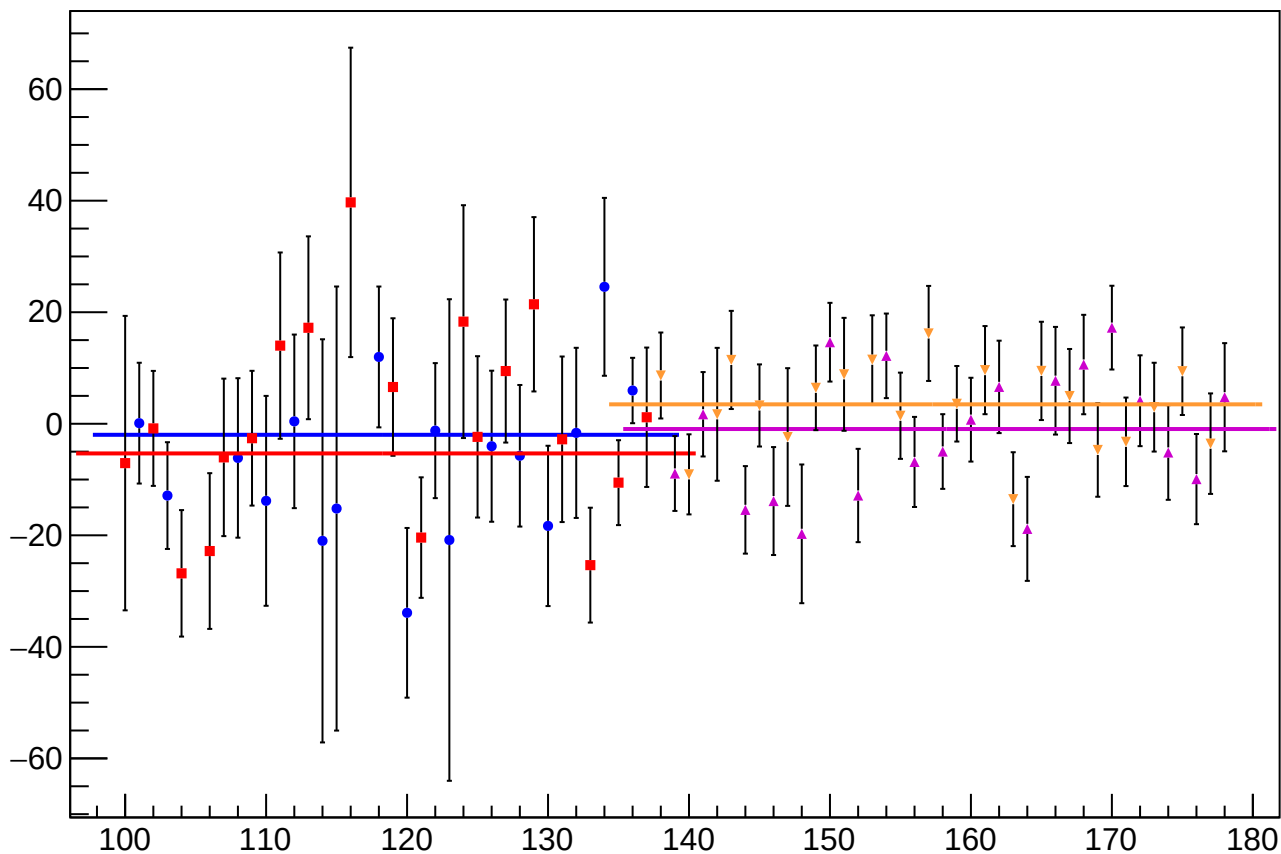
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 9917.727 $\pm$ 1.530 χ^2 /NDF:2066982.9/36

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

All: 9938.264 $\pm$ 1.076 χ^2 /NDF: 4444718.1/76

diff_bpm4acY_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.942 ± 1.819 χ^2/NDF : 34.9/19

Left: 1.291 ± 1.280 χ^2/NDF : 54.3/40

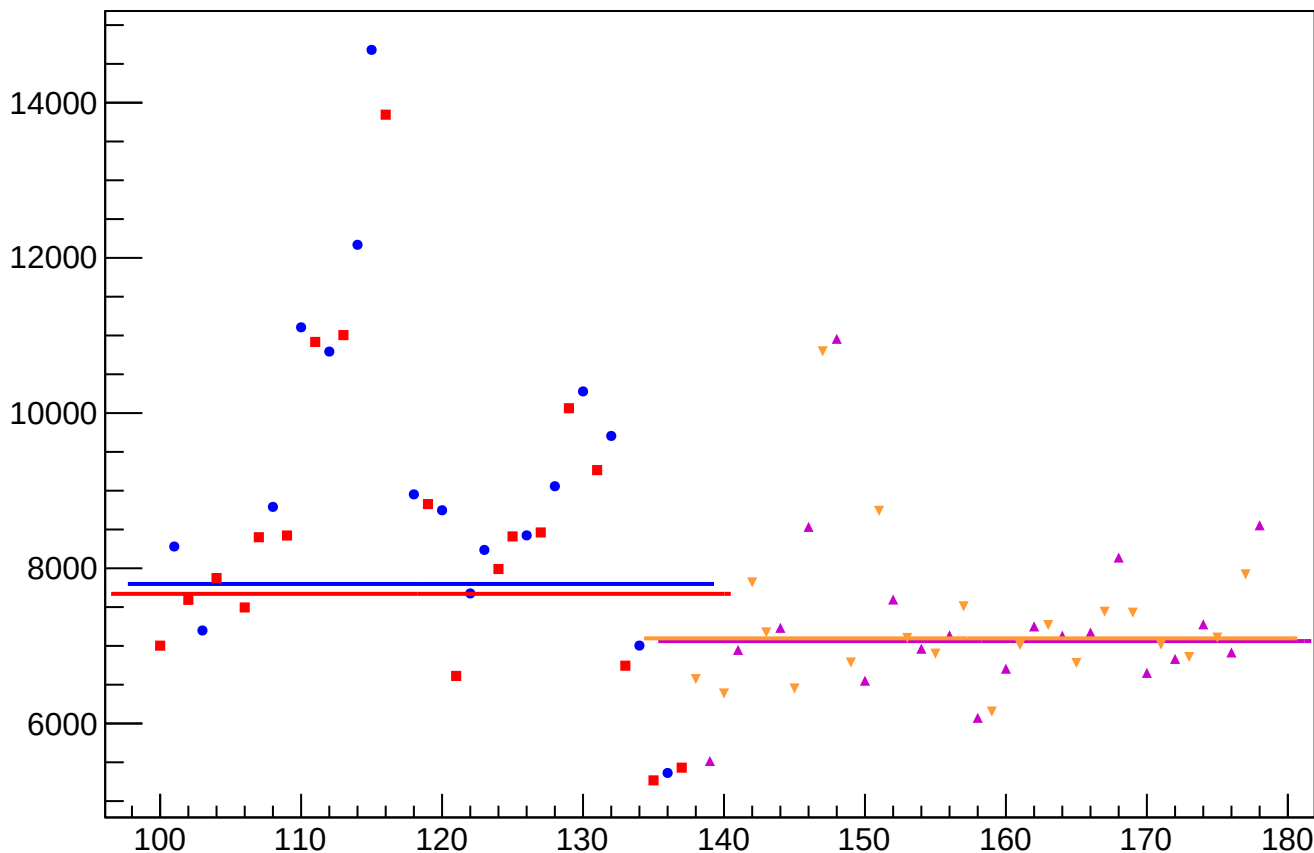
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -1.208 ± 1.568 χ^2/NDF : 49.1/36

Out: 1.101 ± 1.539 χ^2/NDF : 47.1/39

All: -0.032 ± 1.098 χ^2/NDF : 97.3/76

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7097.304+/-1.274 χ^2/NDF : 360880.5/20

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

Left In: 7062.318+/-1.286 χ^2/NDF : 504525.5/19

Left: 7079.974+/-0.905 χ^2/NDF : 865779.3/40

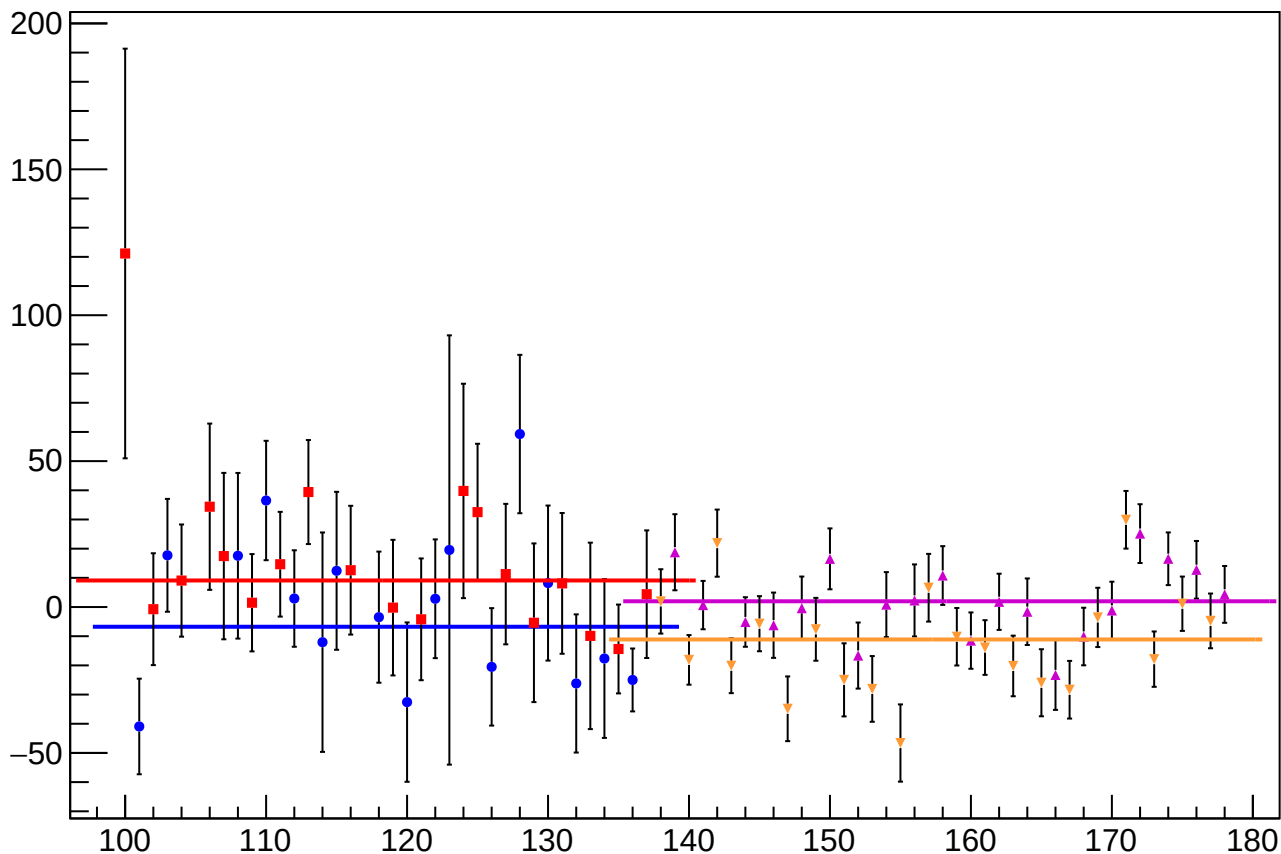
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

In: 7251.389+/-1.109 χ^2/NDF : 1324898.3/36

Out: 7252.477+/-1.088 χ^2/NDF : 1088341.3/39

All: 7251.943+/-0.777 χ^2/NDF : 2413240.1/76

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

Left Out: -11.117 $\pm$ 2.241 χ^2/NDF : 55.3/20

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

Left In: 1.971 $\pm$ 2.282 χ^2/NDF : 25.6/19

Left: -4.691 $\pm$ 1.599 χ^2/NDF : 97.7/40

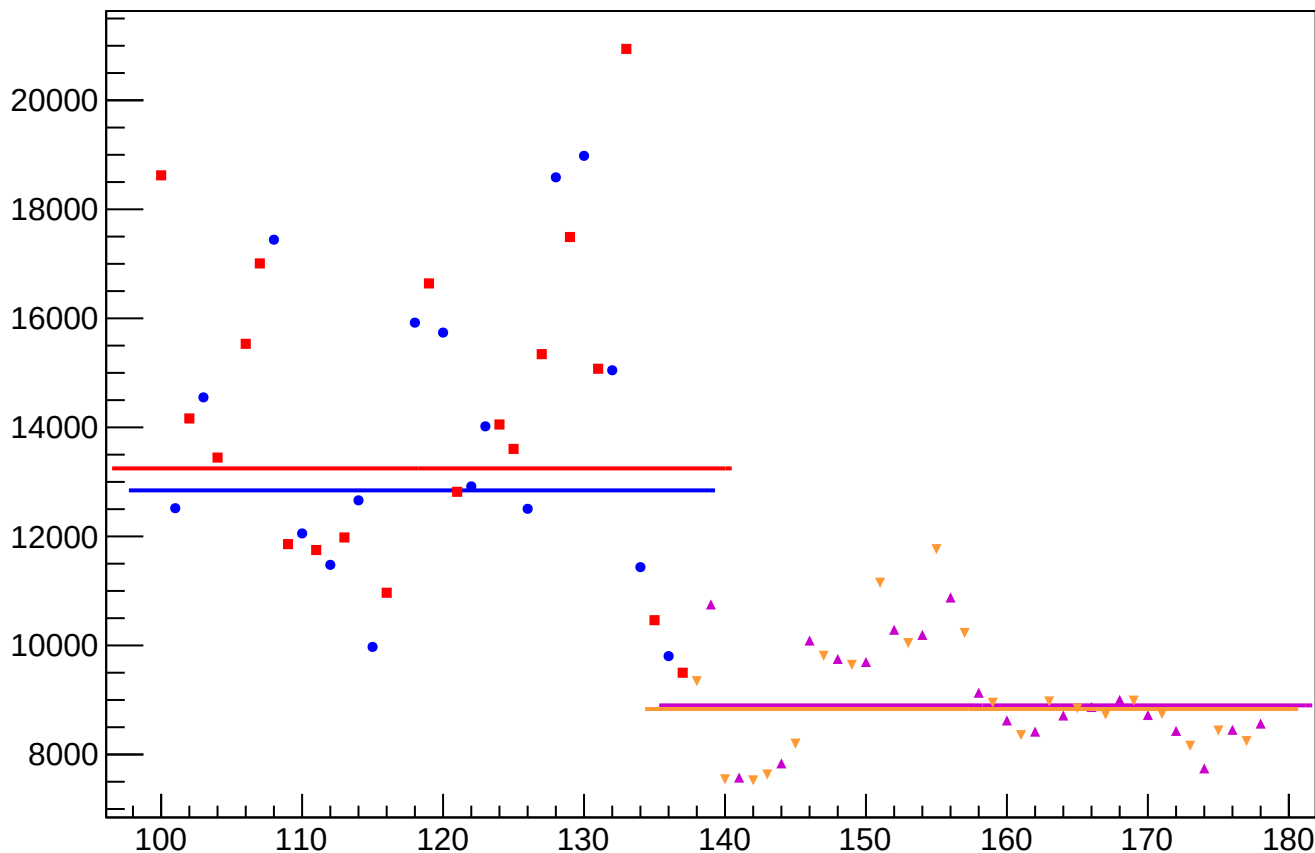
Right: 1.193 $\pm$ 3.590 χ^2/NDF : 40.8/35

In: 0.507 $\pm$ 2.082 χ^2/NDF : 51.8/36

Out: -7.812 $\pm$ 2.050 χ^2/NDF : 80.8/39

All: -3.717 $\pm$ 1.461 χ^2/NDF : 140.7/76

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

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

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

Left In: 8900.788+/-1.614 χ^2/NDF : 330542.2/19

Left: 8866.624+/-1.131 χ^2/NDF : 722897.7/40

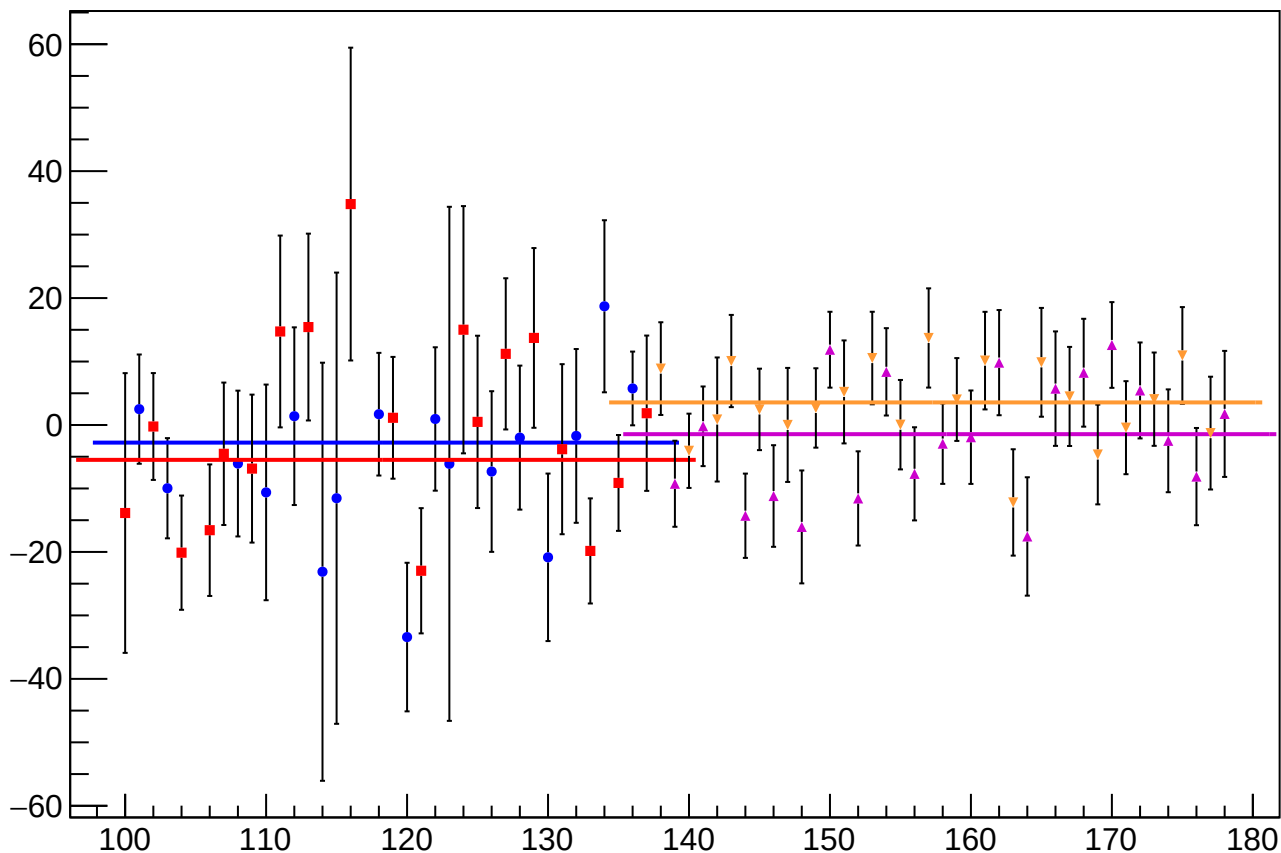
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

In: 9561.998+/-1.472 χ^2/NDF : 1879118.5/36

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

All: 9558.493+/-1.033 χ^2/NDF : 4023752.0/76

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

Left Out: 3.557±/1.627 χ^2/NDF :13.7/20

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

Left In: -1.445±/1.664 χ^2/NDF :31.7/19

Left: 1.113±/1.163 χ^2/NDF : 50.0/40

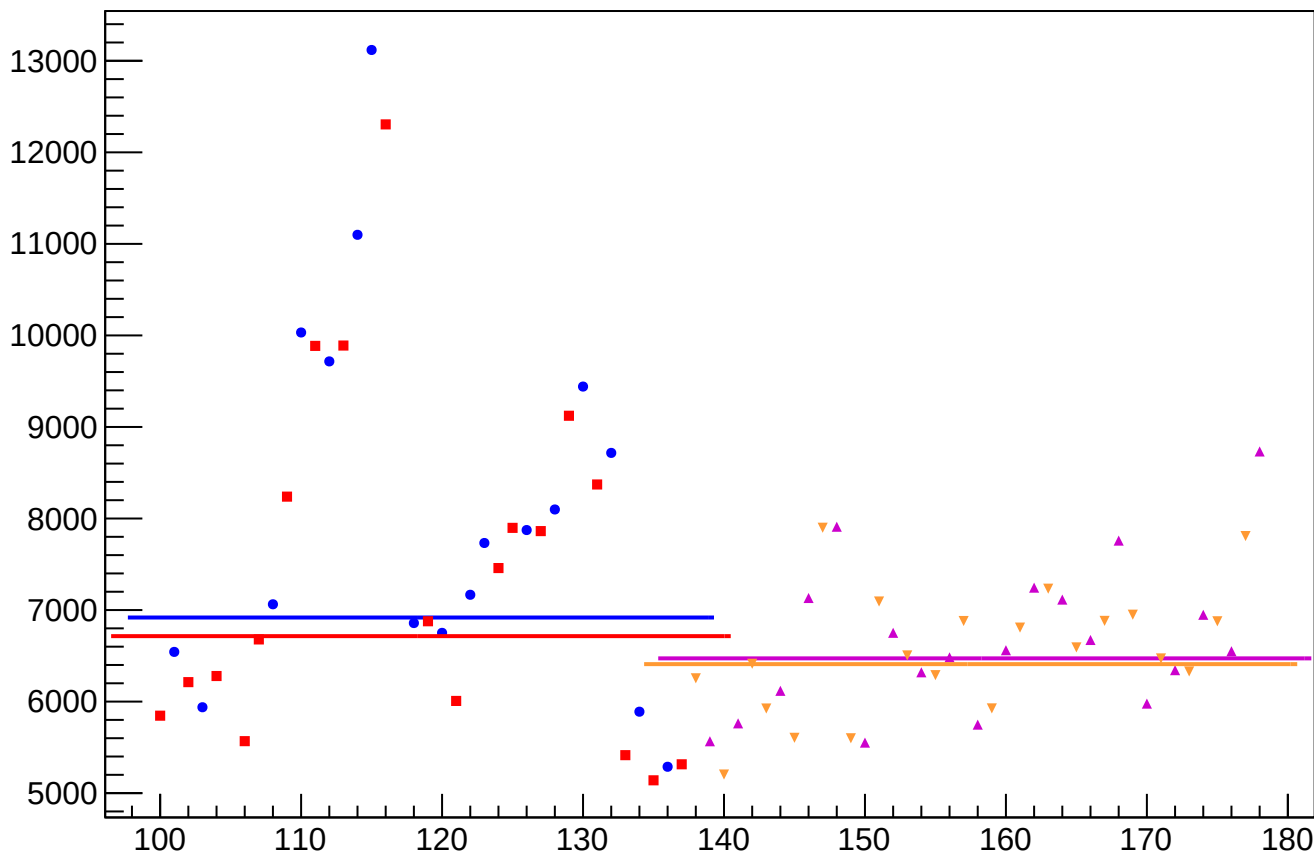
Right: -4.206±/1.879 χ^2/NDF : 39.6/35

In: -1.804±/1.421 χ^2/NDF :47.8/36

Out: 0.994±/1.377 χ^2/NDF :45.6/39

All: -0.361±/0.989 χ^2/NDF : 95.4/76

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

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

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

Left In: 6472.121 ± 1.176 $\chi^2/\text{NDF}: 406146.2/19$

Left: 6439.943 ± 0.822 $\chi^2/\text{NDF}: 755697.1/40$

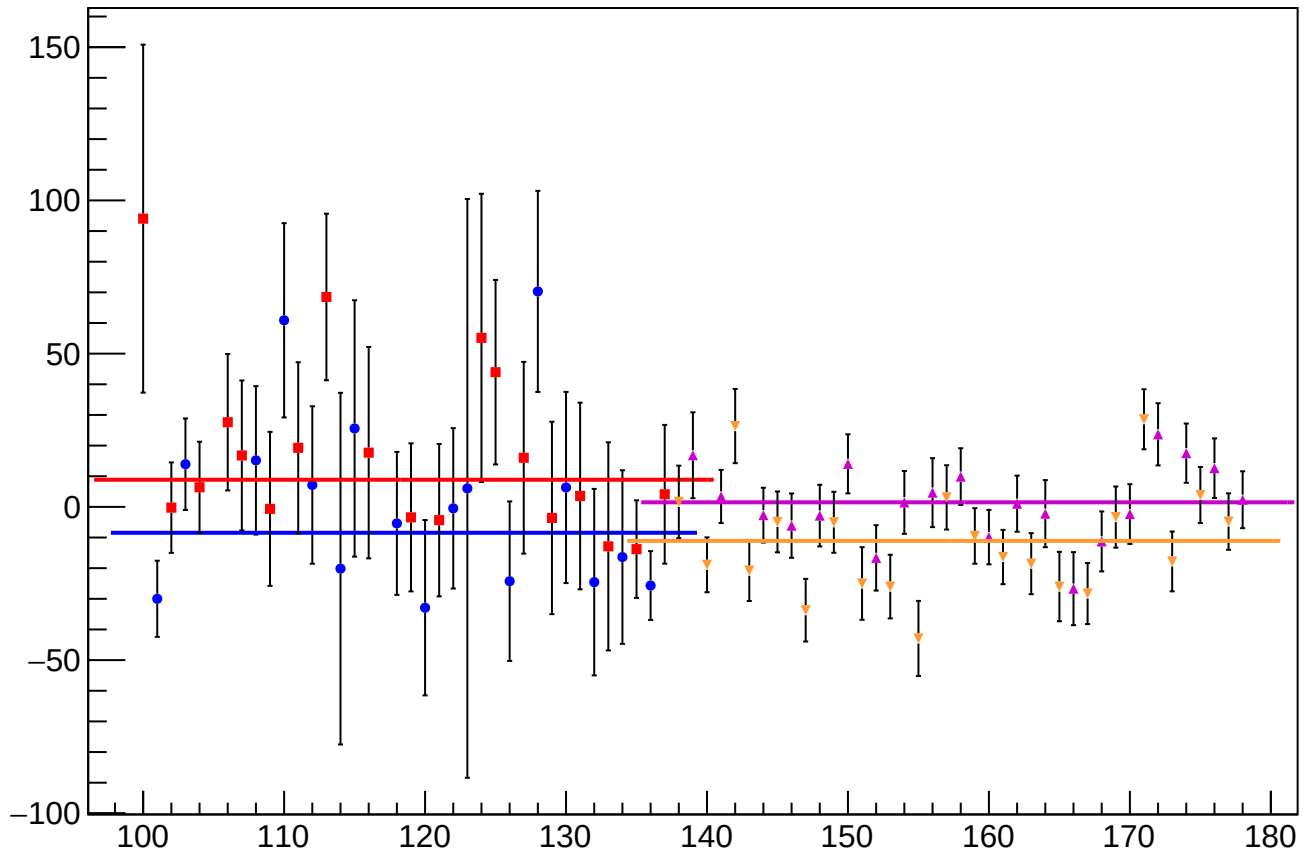
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

In: 6592.887 ± 1.005 $\chi^2/\text{NDF}: 1032137.6/36$

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

All: 6542.831 ± 0.699 $\chi^2/\text{NDF}: 2061077.0/76$

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.448 ± 5.393 $\chi^2/\text{NDF}: 22.0/16$

Left Out: -11.100 ± 2.202 $\chi^2/\text{NDF}: 56.4/20$

Right Out: 8.854 ± 5.508 $\chi^2/\text{NDF}: 14.2/18$

Left In: 1.490 ± 2.224 $\chi^2/\text{NDF}: 25.7/19$

Left: -4.867 ± 1.565 $\chi^2/\text{NDF}: 98.3/40$

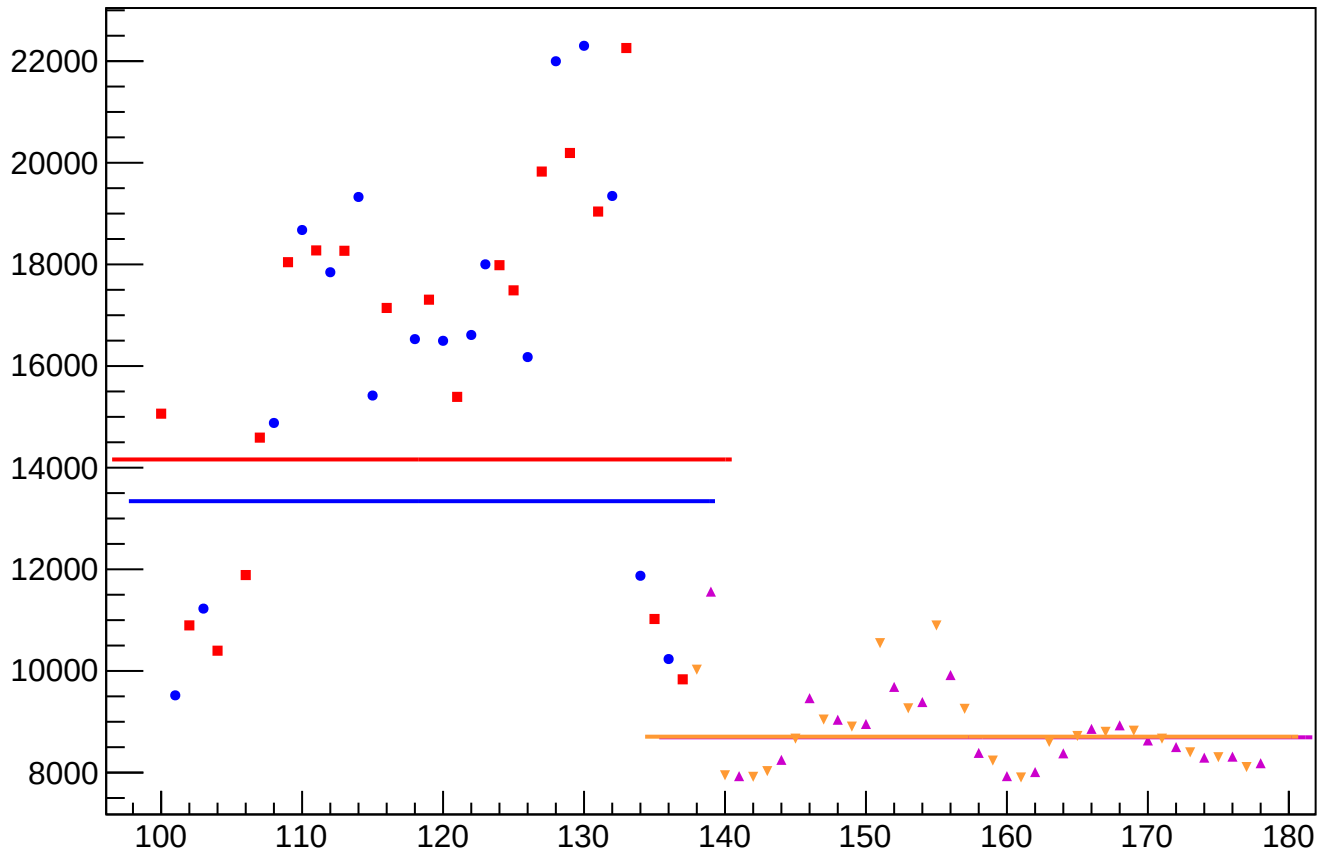
Right: 0.019 ± 3.854 $\chi^2/\text{NDF}: 41.3/35$

In: 0.045 ± 2.056 $\chi^2/\text{NDF}: 50.6/36$

Out: -8.349 ± 2.045 $\chi^2/\text{NDF}: 81.9/39$

All: -4.175 ± 1.450 $\chi^2/\text{NDF}: 140.9/76$

diff_bpm1X_rms vs Slug, Sign Corrected



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

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

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

Left In: 8694.153 $\pm$ 1.573 χ^2 /NDF: 213572.1/19

Left: 8700.511 $\pm$ 1.107 χ^2 /NDF: 433804.4/40

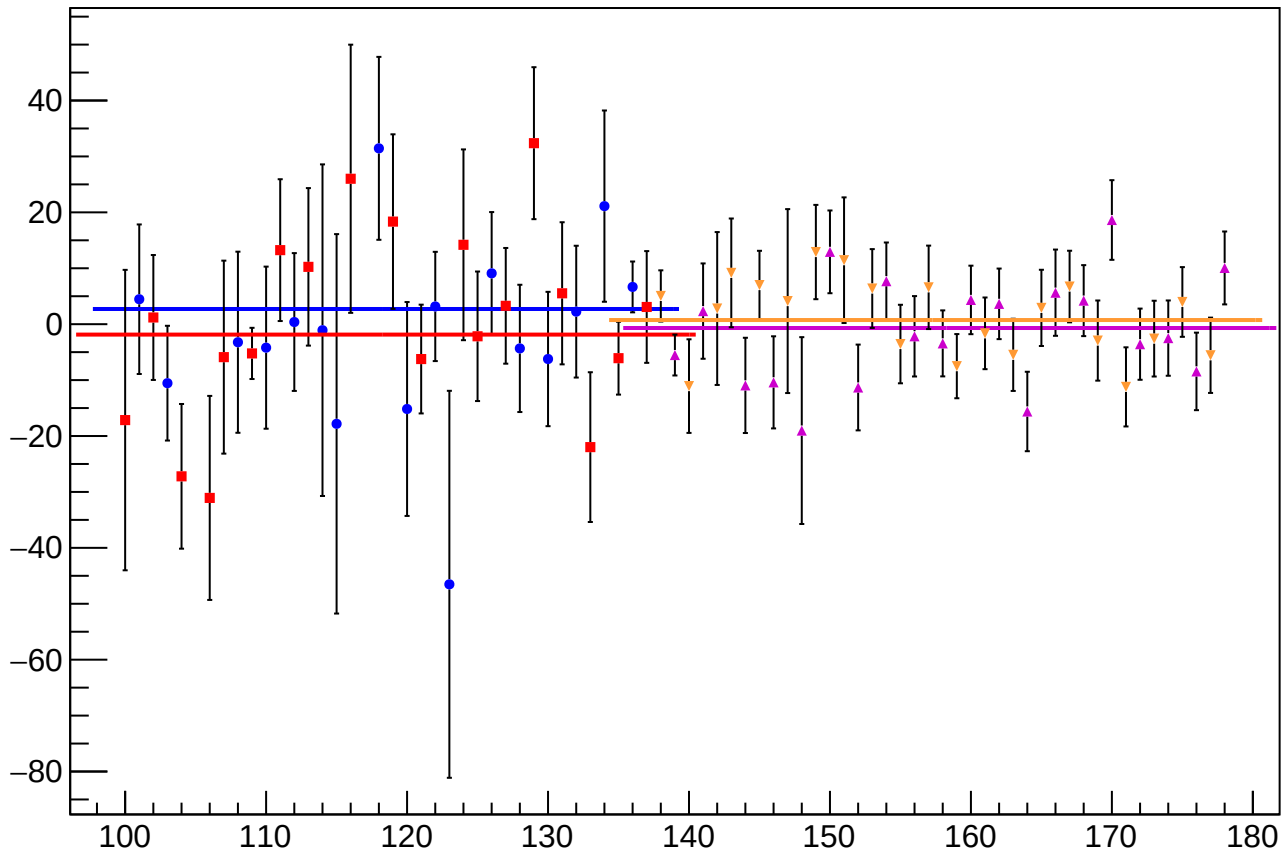
Right: 13742.695 $\pm$ 2.725 χ^2 /NDF: 1999035.6/35

In: 9369.774 $\pm$ 1.454 χ^2 /NDF: 2527119.5/36

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

All: 9414.457 $\pm$ 1.025 χ^2 /NDF: 5372114.6/76

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 $\pm$ 2.752 χ^2/NDF : 11.6/16

Left Out: 0.742 $\pm$ 1.539 χ^2/NDF : 18.0/20

Right Out: -1.861 $\pm$ 2.439 χ^2/NDF : 23.5/18

Left In: -0.684 $\pm$ 1.492 χ^2/NDF : 31.4/19

Left: 0.007 $\pm$ 1.071 χ^2/NDF : 49.8/40

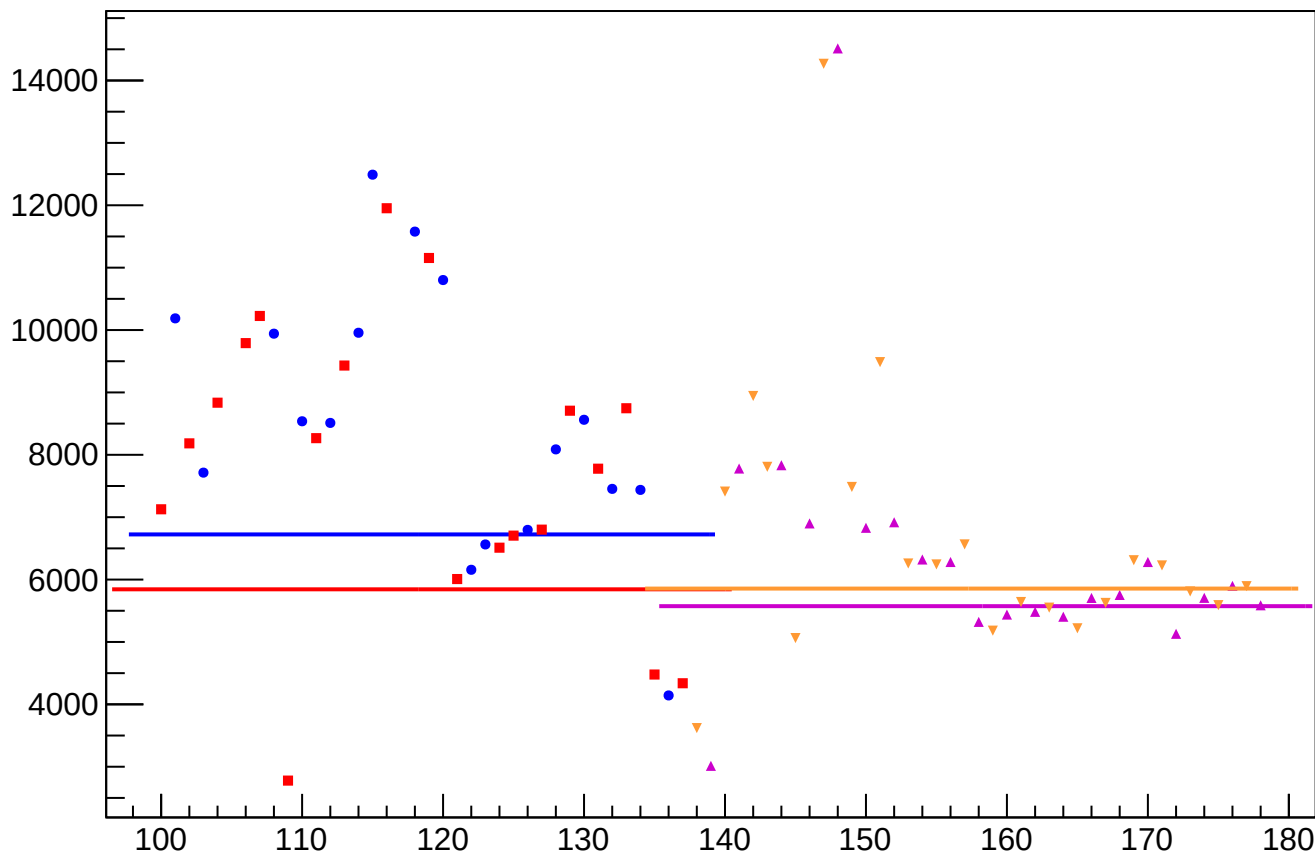
Right: 0.153 $\pm$ 1.825 χ^2/NDF : 36.7/35

In: 0.089 $\pm$ 1.312 χ^2/NDF : 44.2/36

Out: 0.000 $\pm$ 1.302 χ^2/NDF : 42.3/39

All: 0.044 $\pm$ 0.924 χ^2/NDF : 86.5/76

diff_bpm1Y_rms vs Slug, Sign Corrected



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

Left Out: 5855.631+/-1.088 χ^2/NDF : 1670891.1/20

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

Left In: 5573.803+/-1.055 χ^2/NDF : 2084872.5/19

Left: 5710.384+/-0.758 χ^2/NDF : 3790326.3/40

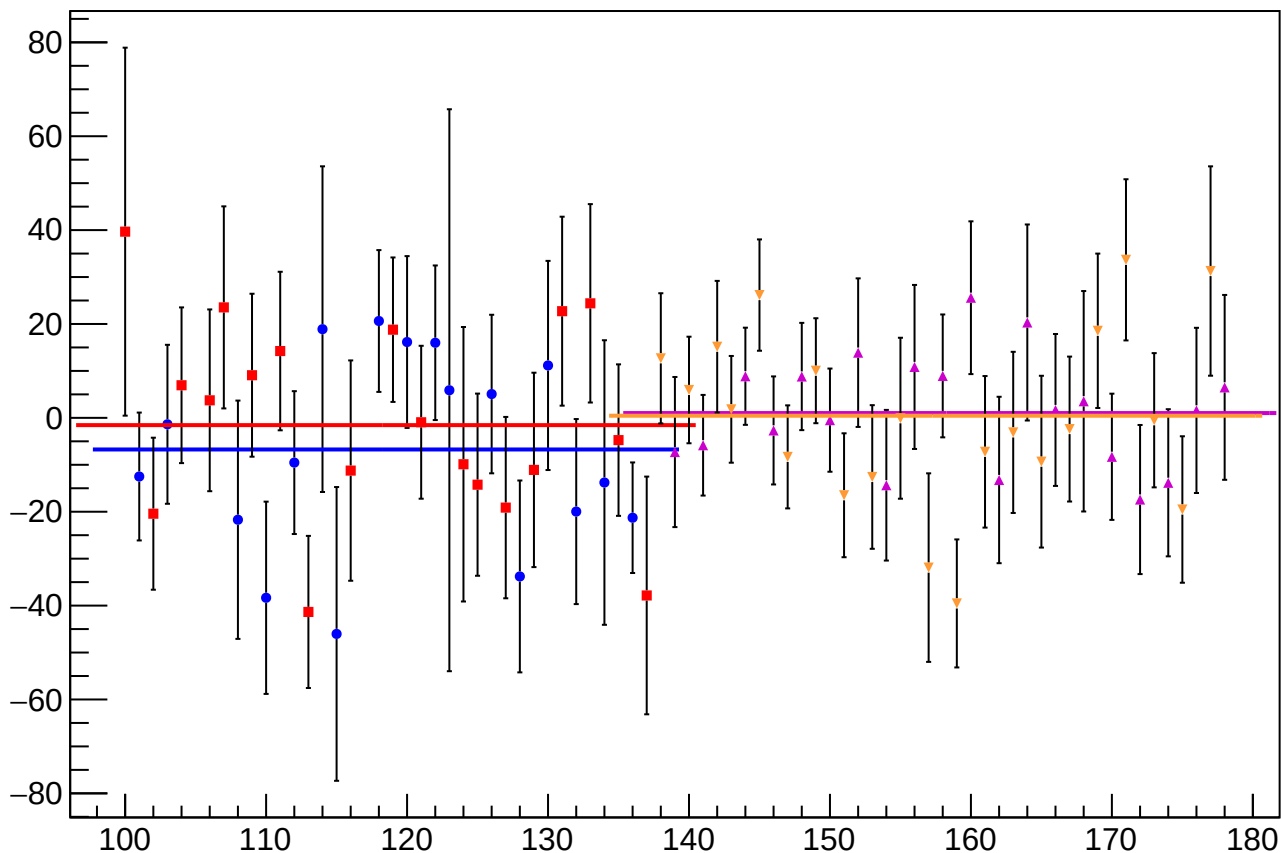
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5835.160+/-0.928 χ^2/NDF : 3746841.4/36

Out: 5852.270+/-0.920 χ^2/NDF : 3948148.4/39

All: 5843.783+/-0.653 χ^2/NDF : 7695161.2/76

diff_bpm11X_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.021 ± 3.216 χ^2/NDF : 10.7/19

Left: 0.728 ± 2.238 χ^2/NDF : 41.6/40

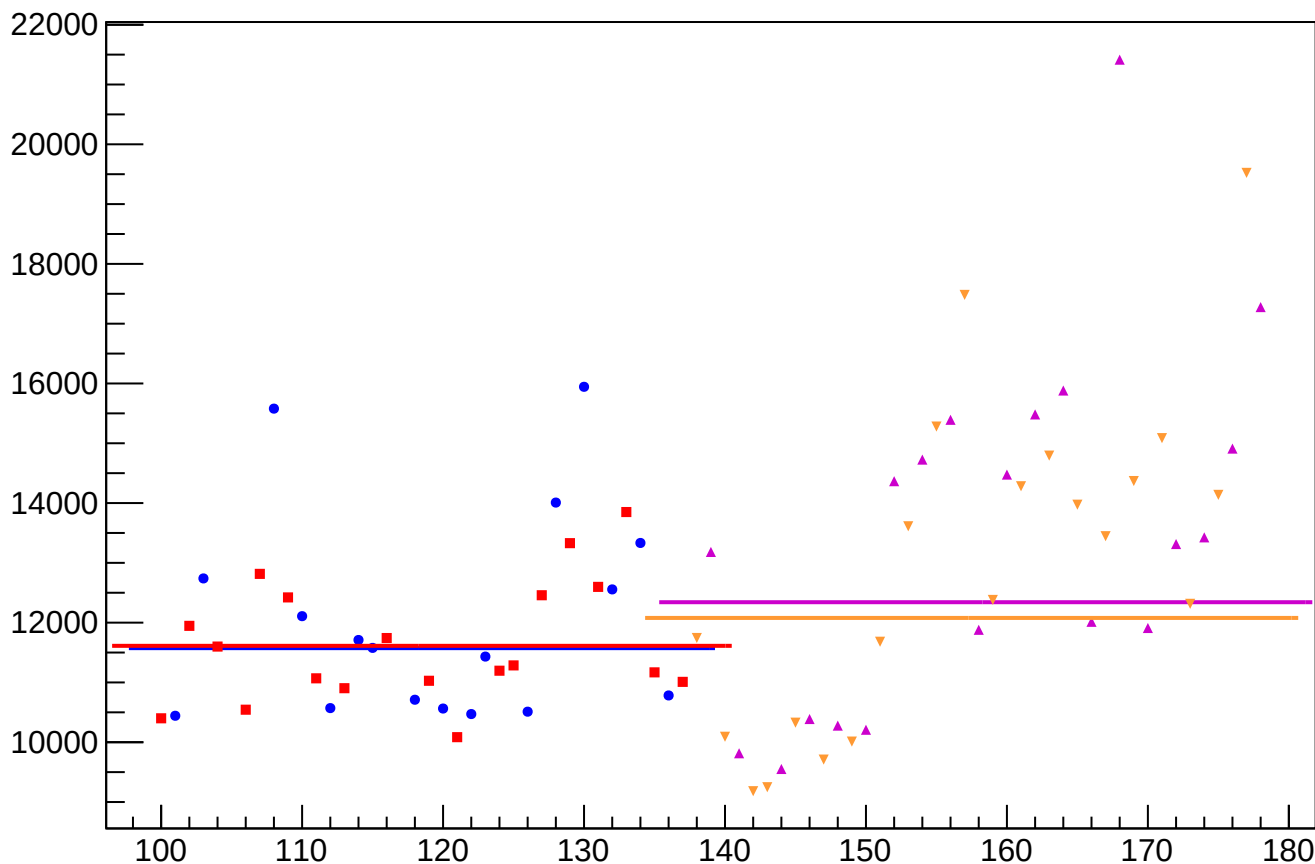
Right: -4.061 ± 3.140 χ^2/NDF : 37.5/35

In: -1.592 ± 2.619 χ^2/NDF : 29.5/36

Out: -0.221 ± 2.538 χ^2/NDF : 51.0/39

All: -0.885 ± 1.823 χ^2/NDF : 80.6/76

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 12078.868+/-2.204 χ^2/NDF : 1196758.1/20

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

Left In: 12341.676+/-2.274 χ^2/NDF : 1241849.2/19

Left: 12206.133+/-1.583 χ^2/NDF : 2445494.5/40

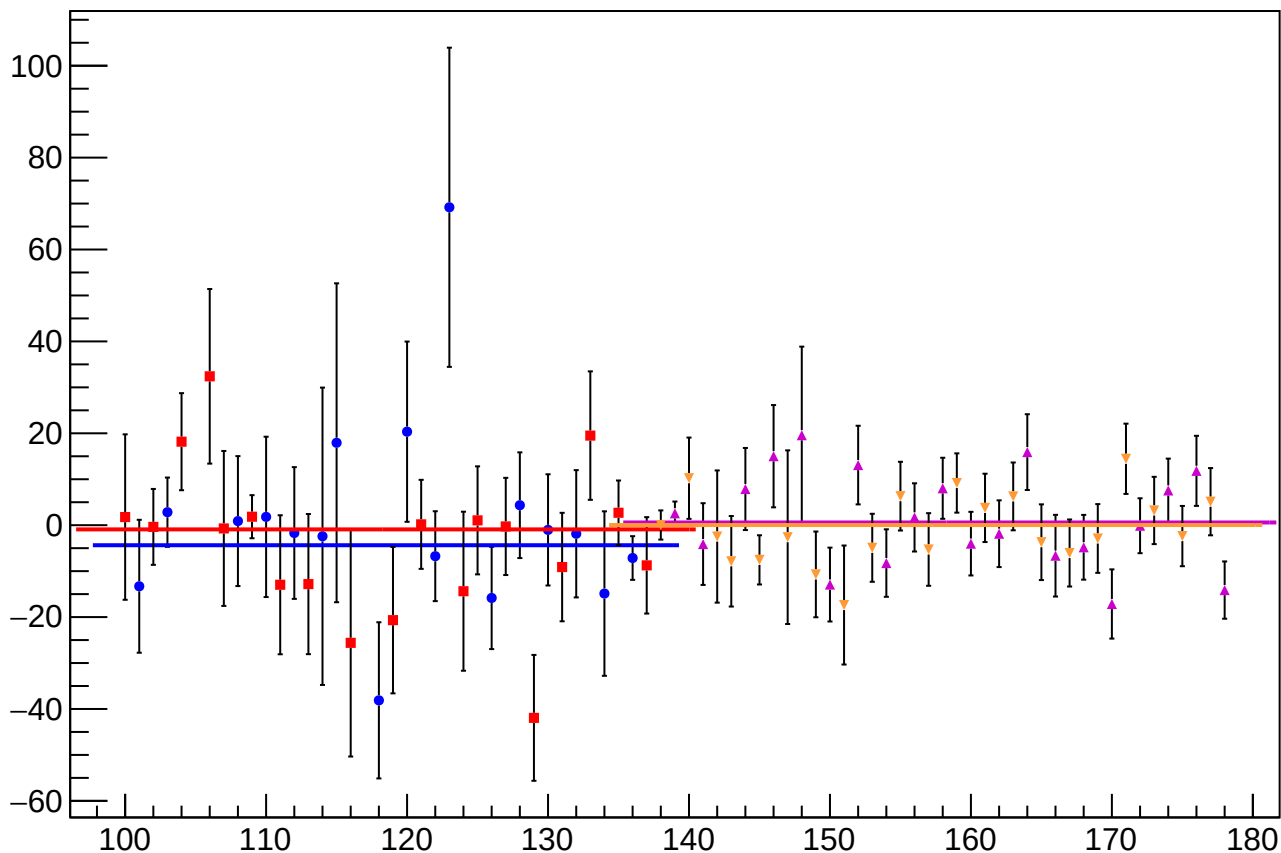
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 12082.927+/-1.852 χ^2/NDF : 1519014.2/36

Out: 11921.659+/-1.795 χ^2/NDF : 1306172.7/39

All: 11999.750+/-1.289 χ^2/NDF : 2829097.7/77

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: 0.035 ± 1.536 χ^2/NDF : 17.2/20

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

Left In: 0.592 ± 1.453 χ^2/NDF : 31.4/19

Left: 0.329 ± 1.056 χ^2/NDF : 48.7/40

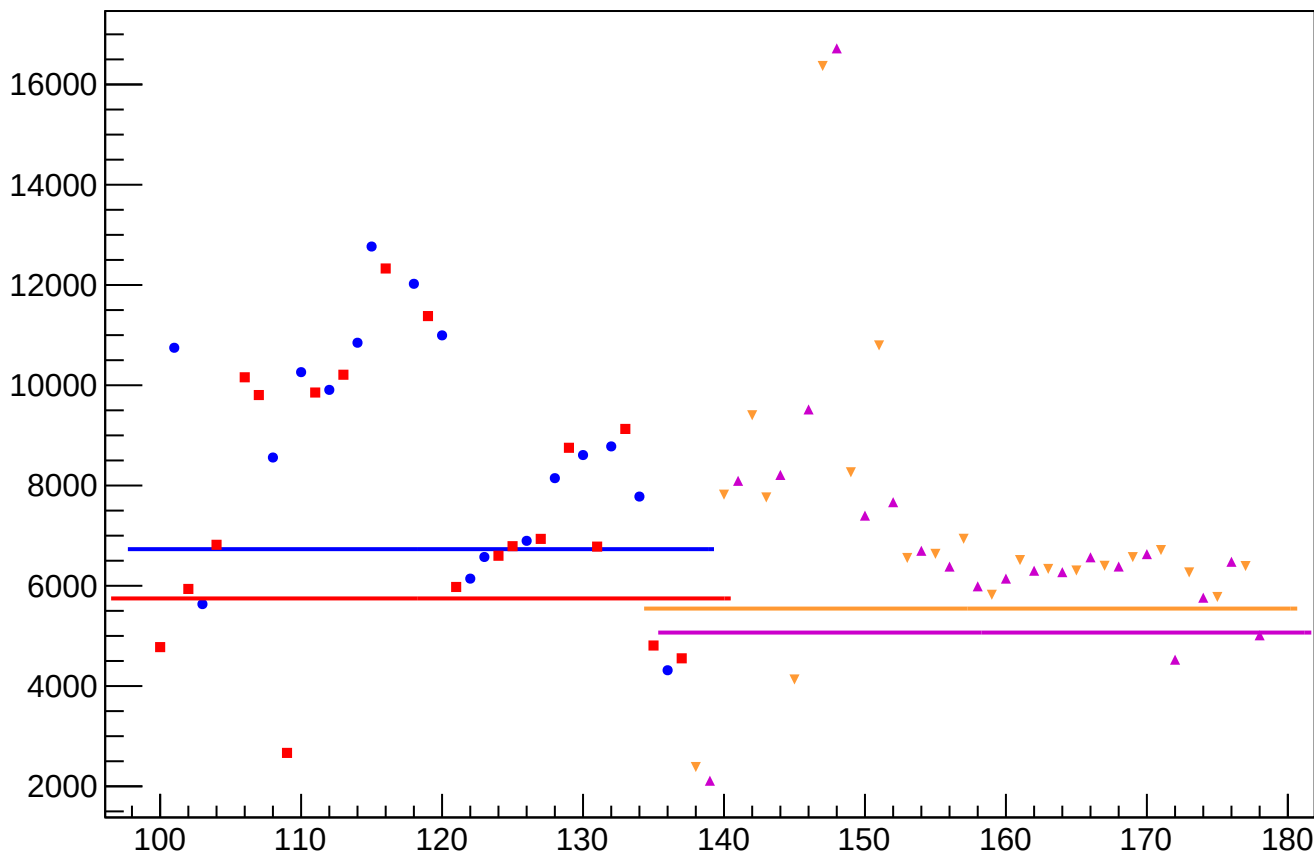
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: -0.473 ± 1.287 χ^2/NDF : 48.5/36

Out: -0.237 ± 1.298 χ^2/NDF : 40.8/39

All: -0.356 ± 0.914 χ^2/NDF : 89.3/76

diff_bpm11Y_rms vs Slug, Sign Corrected



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

Left Out: 5545.535 $\pm$ 1.086 χ^2 /NDF: 4029366.1/20

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

Left In: 5066.823 $\pm$ 1.028 χ^2 /NDF: 5213350.6/19

Left: 5292.909 $\pm$ 0.746 χ^2 /NDF: 9345221.3/40

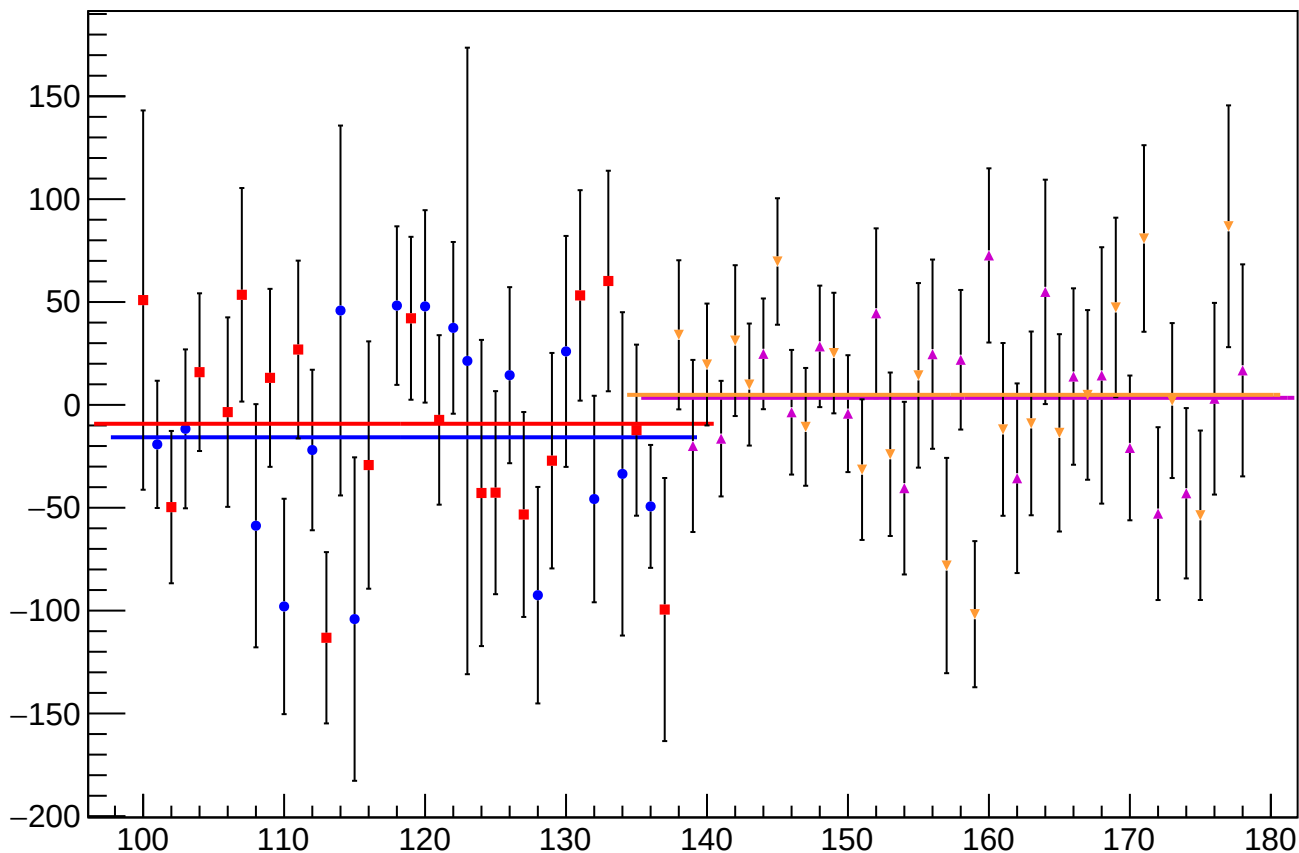
Right: 6173.310 $\pm$ 1.292 χ^2 /NDF: 3749669.1/35

In: 5424.655 $\pm$ 0.910 χ^2 /NDF: 7222489.9/36

Out: 5603.372 $\pm$ 0.918 χ^2 /NDF: 6201510.7/39

All: 5513.297 $\pm$ 0.646 χ^2 /NDF: 13443115.1/77

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 4.881 $\pm$ 8.150 χ^2/NDF : 28.0/20

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

Left In: 3.429 $\pm$ 8.406 χ^2/NDF : 12.9/19

Left: 4.178 $\pm$ 5.851 χ^2/NDF : 40.9/40

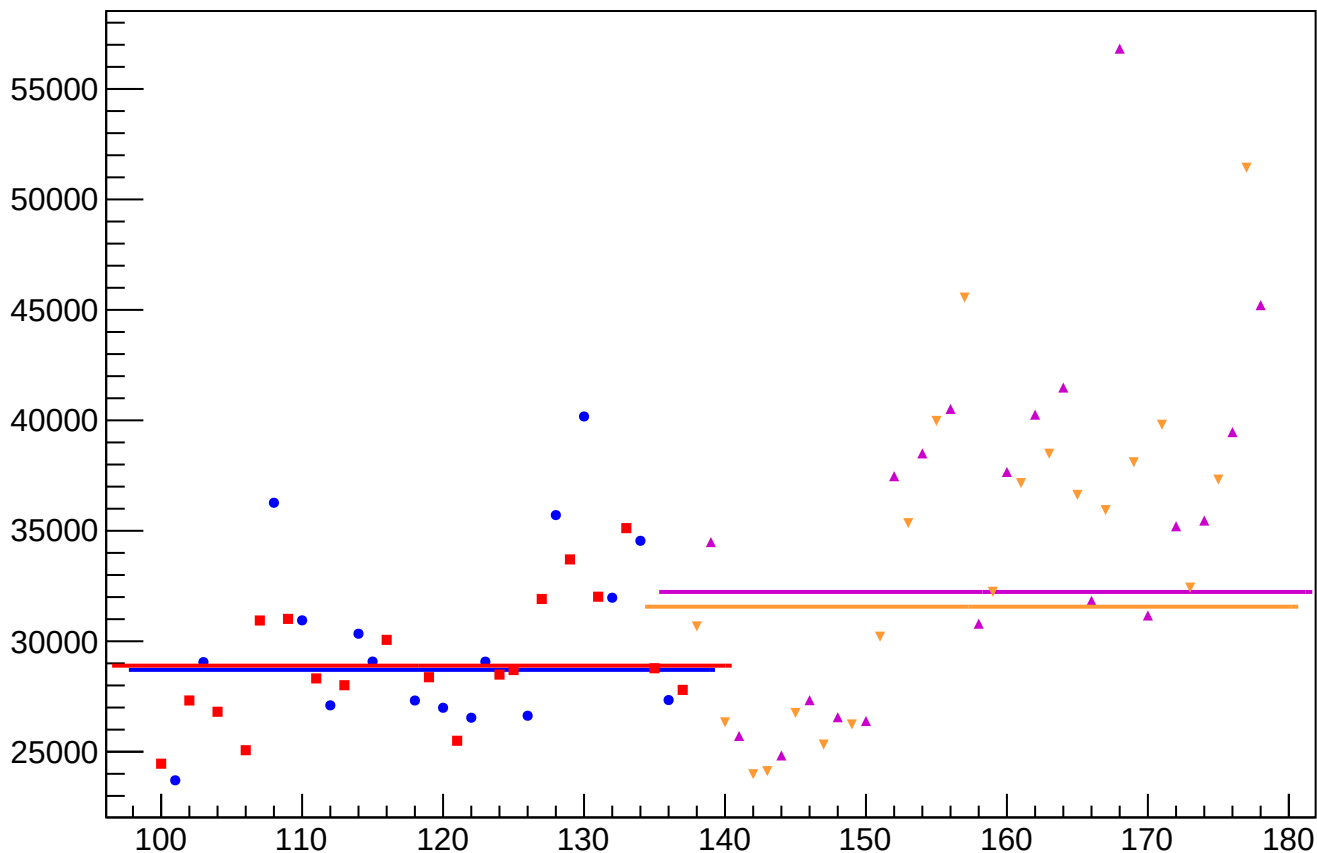
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

In: -3.476 $\pm$ 6.725 χ^2/NDF : 30.6/36

Out: -0.167 $\pm$ 6.525 χ^2/NDF : 48.3/39

All: -1.772 $\pm$ 4.683 χ^2/NDF : 79.1/76

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569 ± 7.925

χ^2/NDF : 250992.5/16

Left Out: 31565.092 ± 5.763

χ^2/NDF : 1228535.9/20

Right Out: 28895.535 ± 7.700

χ^2/NDF : 111212.6/18

Left In: 32232.431 ± 5.944

χ^2/NDF : 1282822.4/19

Left: 31888.439 ± 4.137 χ^2/NDF : 2517856.1/40

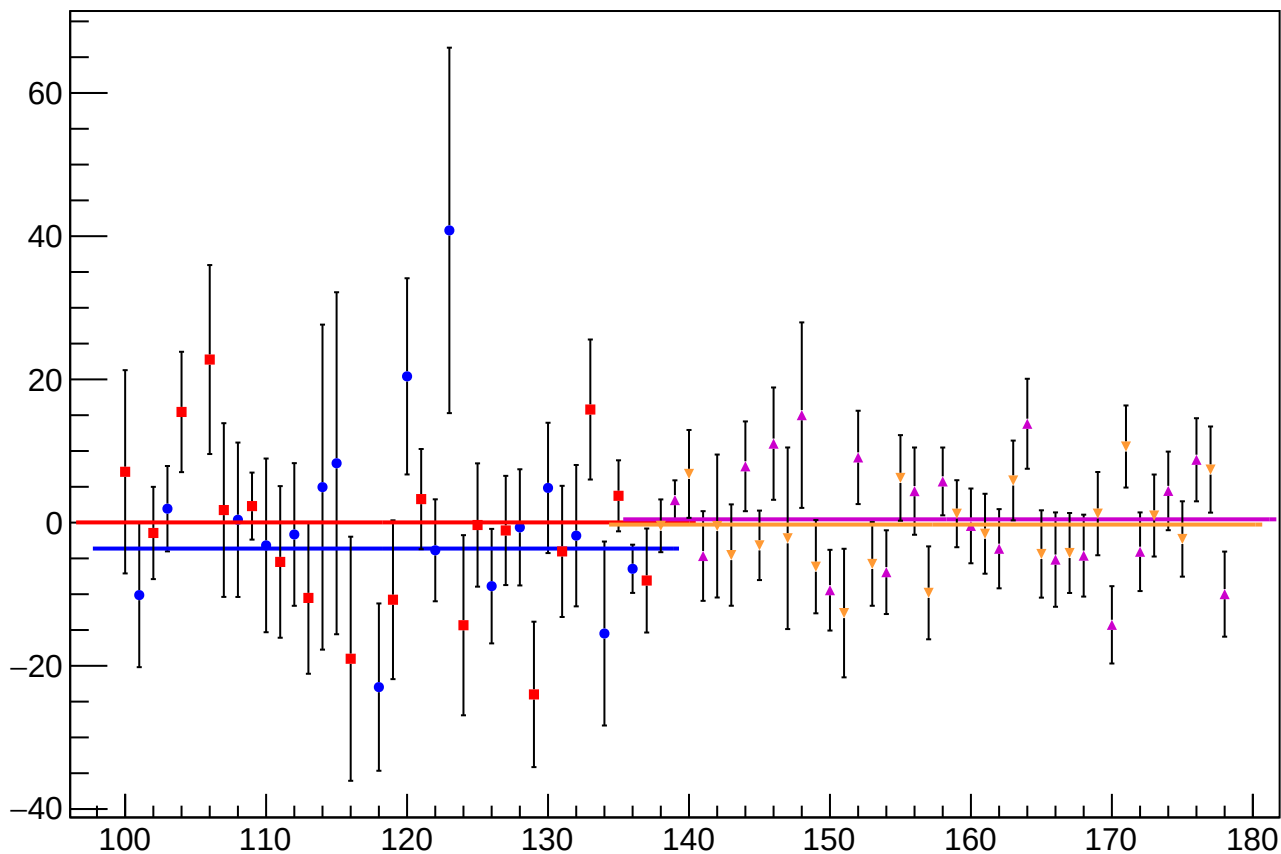
Right: 28803.288 ± 5.522 χ^2/NDF : 362500.7/35

In: 30962.726 ± 4.755 χ^2/NDF : 1660569.8/36

Out: 30606.647 ± 4.614 χ^2/NDF : 1416796.0/39

All: 30779.315 ± 3.311 χ^2/NDF : 3080254.3/77

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -0.274 ± 1.271 $\chi^2/\text{NDF}: 16.9/20$

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

Left In: 0.458 ± 1.224 $\chi^2/\text{NDF}: 34.6/19$

Left: 0.106 ± 0.882 $\chi^2/\text{NDF}: 51.6/40$

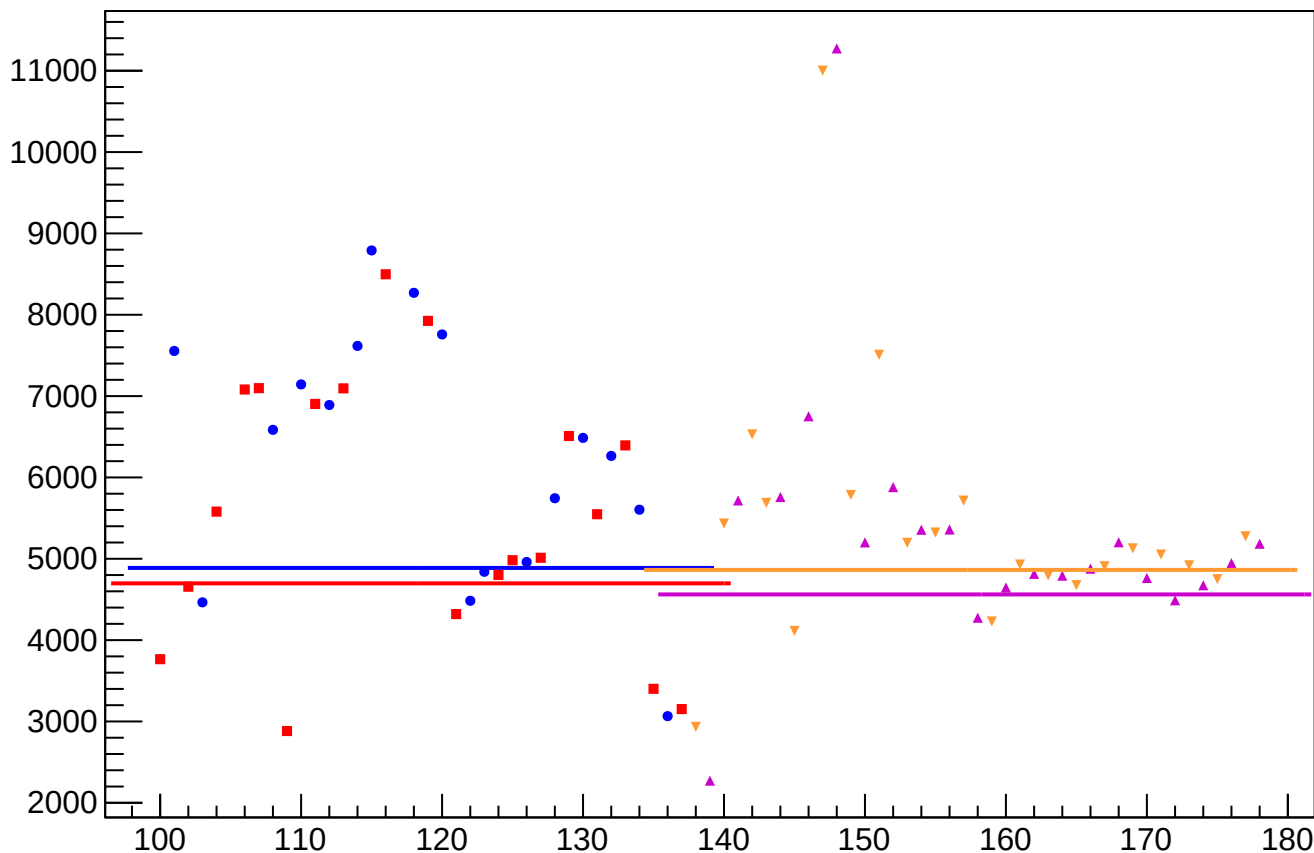
Right: -1.690 ± 1.376 $\chi^2/\text{NDF}: 37.6/35$

In: -0.650 ± 1.045 $\chi^2/\text{NDF}: 51.3/36$

Out: -0.180 ± 1.055 $\chi^2/\text{NDF}: 39.0/39$

All: -0.417 ± 0.742 $\chi^2/\text{NDF}: 90.4/76$

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4863.142 $\pm$ 0.899 χ^2/NDF : 1487367.9/20

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

Left In: 4561.707 $\pm$ 0.866 χ^2/NDF : 2467029.0/19

Left: 4706.815 $\pm$ 0.623 χ^2/NDF : 4012748.2/40

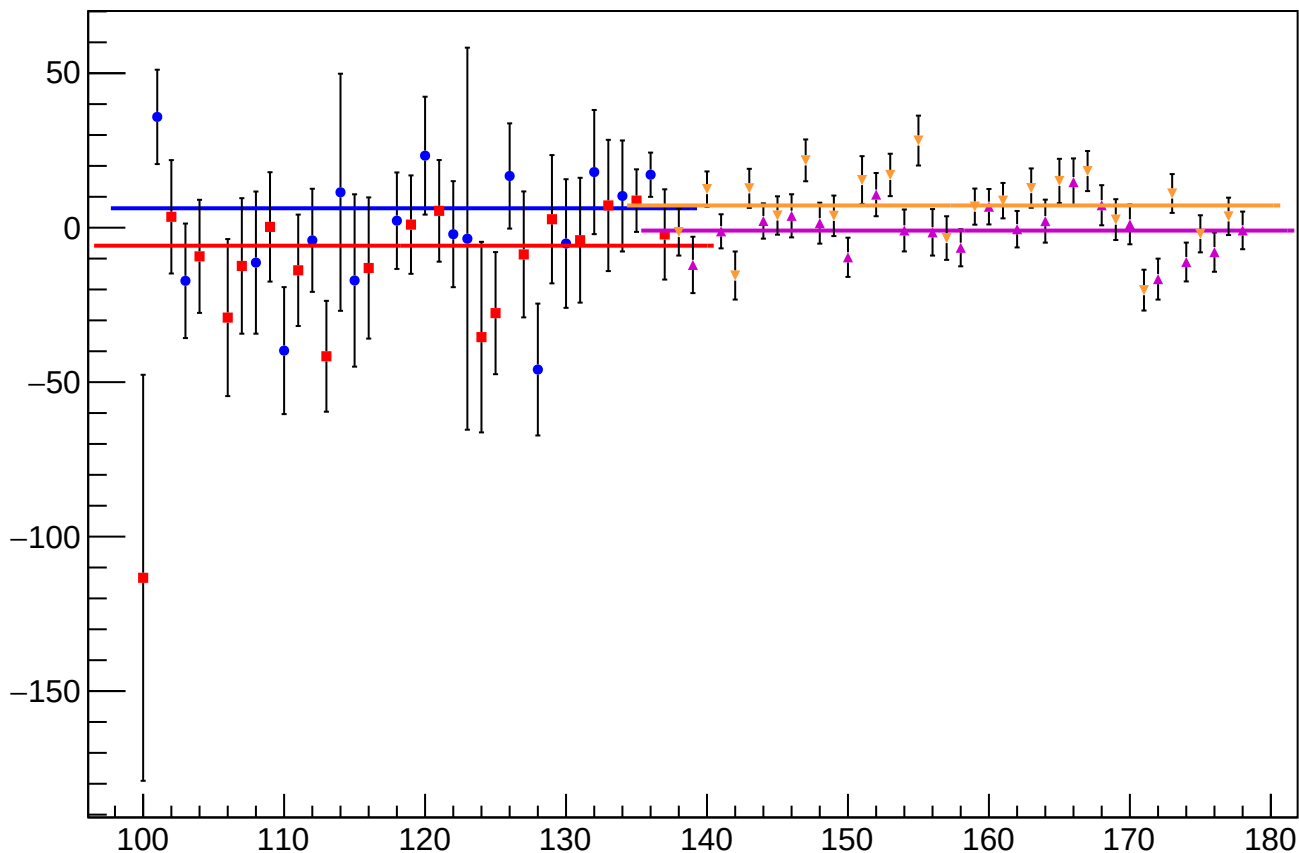
Right: 4786.972 $\pm$ 0.973 χ^2/NDF : 2731901.7/35

In: 4650.143 $\pm$ 0.739 χ^2/NDF : 3914763.4/36

Out: 4811.635 $\pm$ 0.746 χ^2/NDF : 2811039.2/39

All: 4730.158 $\pm$ 0.525 χ^2/NDF : 6749463.2/76

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 7.196+/-1.432 χ^2/NDF : 54.6/20

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

Left In: -0.934+/-1.450 χ^2/NDF : 25.2/19

Left: 3.183+/-1.019 χ^2/NDF : 95.7/40

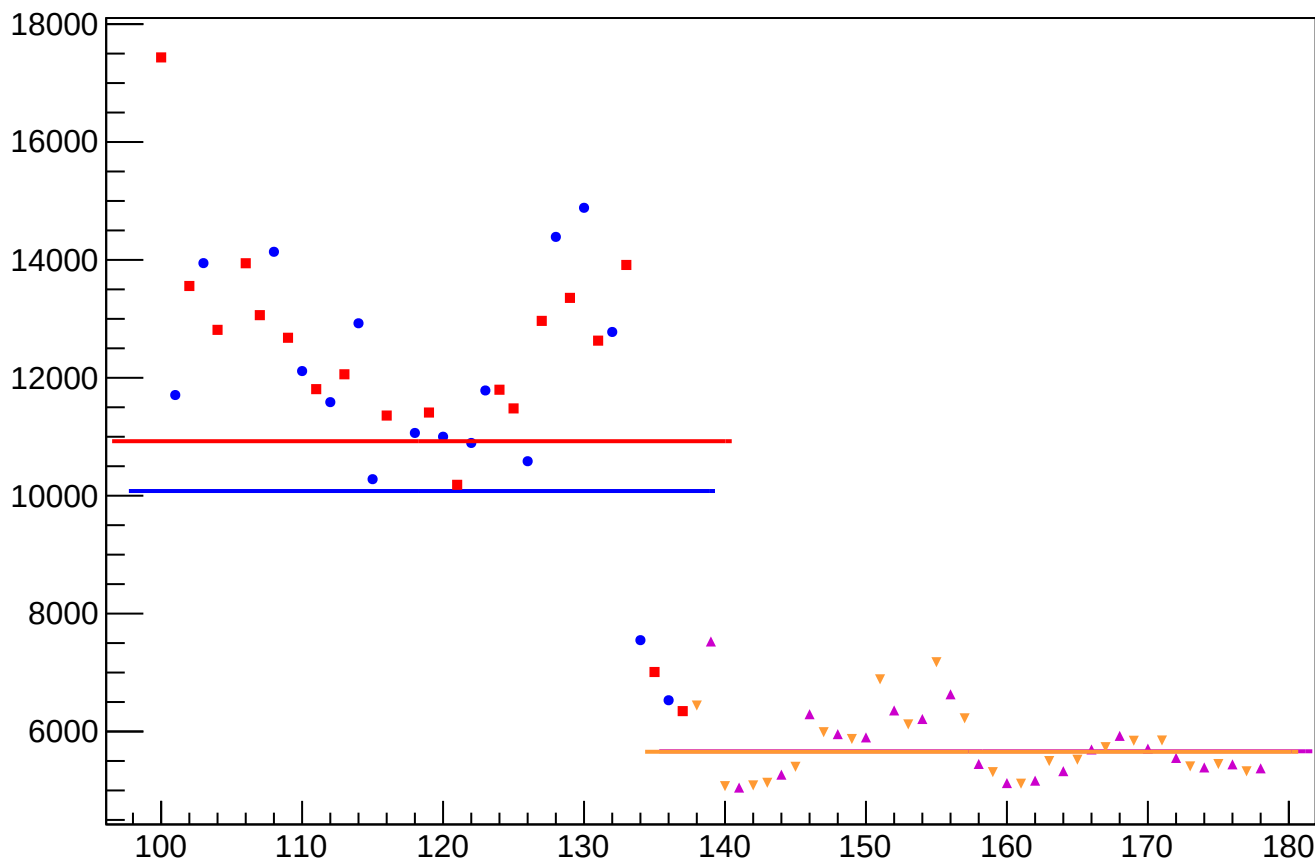
Right: 0.454+/-2.927 χ^2/NDF : 40.6/35

In: -0.119+/-1.366 χ^2/NDF : 50.6/36

Out: 5.851+/-1.356 χ^2/NDF : 76.9/39

All: 2.888+/-0.962 χ^2/NDF : 137.1/76

diff_bpm16X_rms vs Slug, Sign Corrected



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

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

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

Left In: 5664.409 $\pm$ 1.026 χ^2 /NDF: 260229.0/19

Left: 5660.270 $\pm$ 0.721 χ^2 /NDF: 522571.0/40

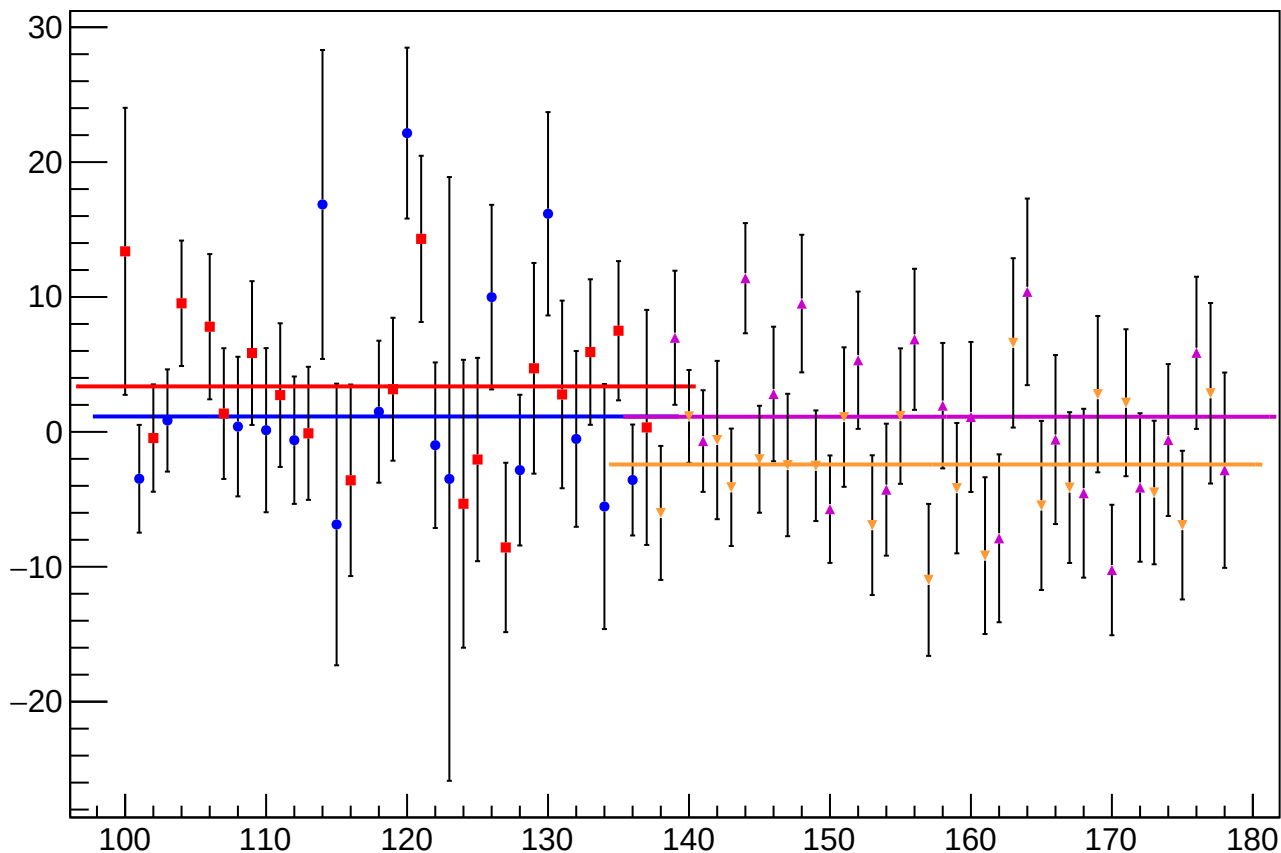
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

In: 6163.140 $\pm$ 0.966 χ^2 /NDF: 3348580.6/36

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

All: 6181.963 $\pm$ 0.681 χ^2 /NDF: 7176343.7/76

diff_bpm16Y_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.123 ± 1.144 $\chi^2/\text{NDF}: 29.2/19$

Left: -0.710 ± 0.794 $\chi^2/\text{NDF}: 46.8/40$

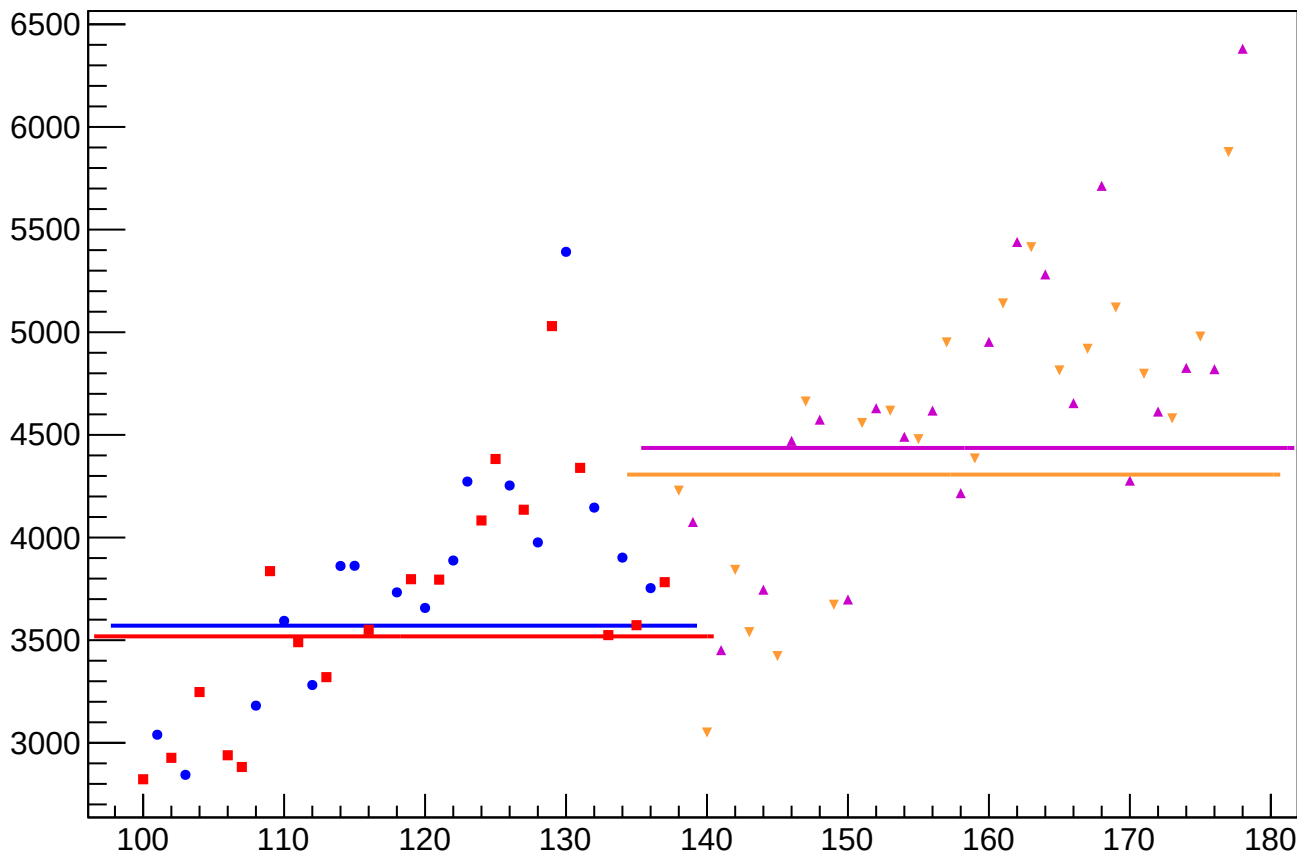
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.131 ± 0.885 $\chi^2/\text{NDF}: 52.4/36$

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

All: 0.510 ± 0.613 $\chi^2/\text{NDF}: 92.3/76$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 4436.426 $\pm$ 0.809 χ^2 /NDF:636829.0/19

Left: 4369.202 $\pm$ 0.562 χ^2 /NDF: 1530874.1/40

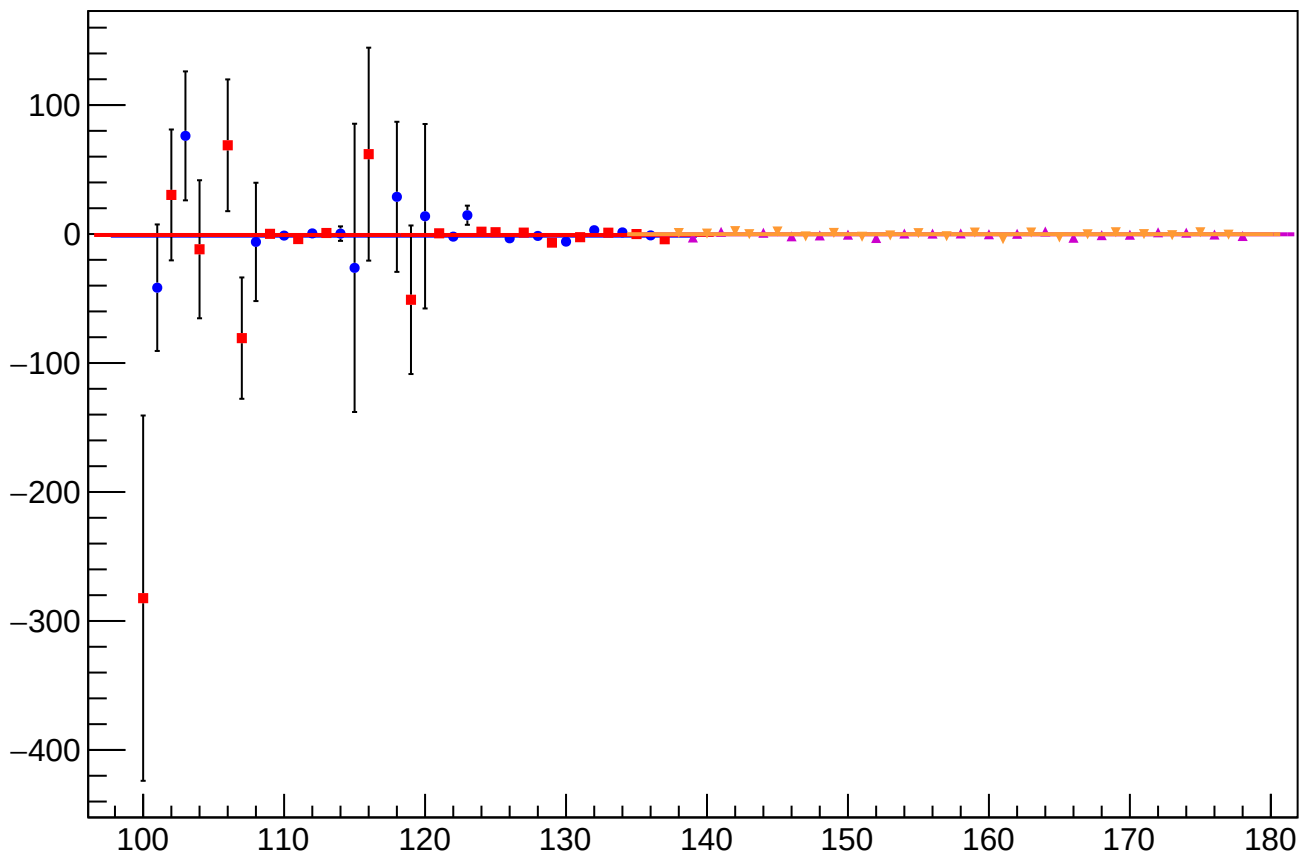
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

In: 4088.272 $\pm$ 0.626 χ^2 /NDF:1406756.4/36

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

All: 4035.193 $\pm$ 0.433 χ^2 /NDF: 3009181.7/76

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.209 ± 0.269 χ^2/NDF : 26.2/19

Left: -0.168 ± 0.189 χ^2/NDF : 60.0/40

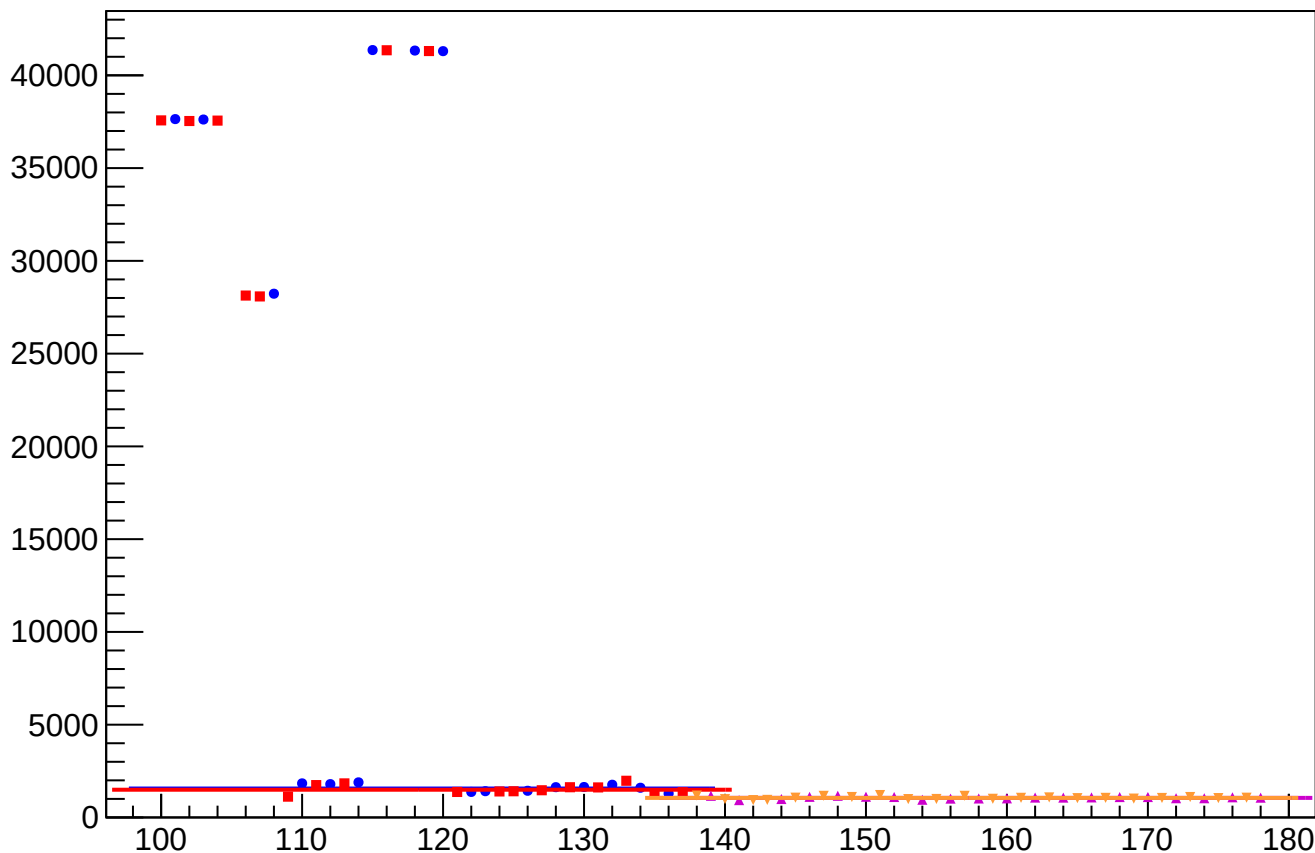
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.329 ± 0.253 χ^2/NDF : 44.2/36

Out: -0.204 ± 0.249 χ^2/NDF : 56.5/39

All: -0.265 ± 0.178 χ^2/NDF : 100.8/76

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1054.215 $\pm$ 0.188 χ^2 /NDF:134879.2/20

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

Left In: 1054.893 $\pm$ 0.191 χ^2 /NDF:107266.3/19

Left: 1054.550 $\pm$ 0.134 χ^2 /NDF: 242151.9/40

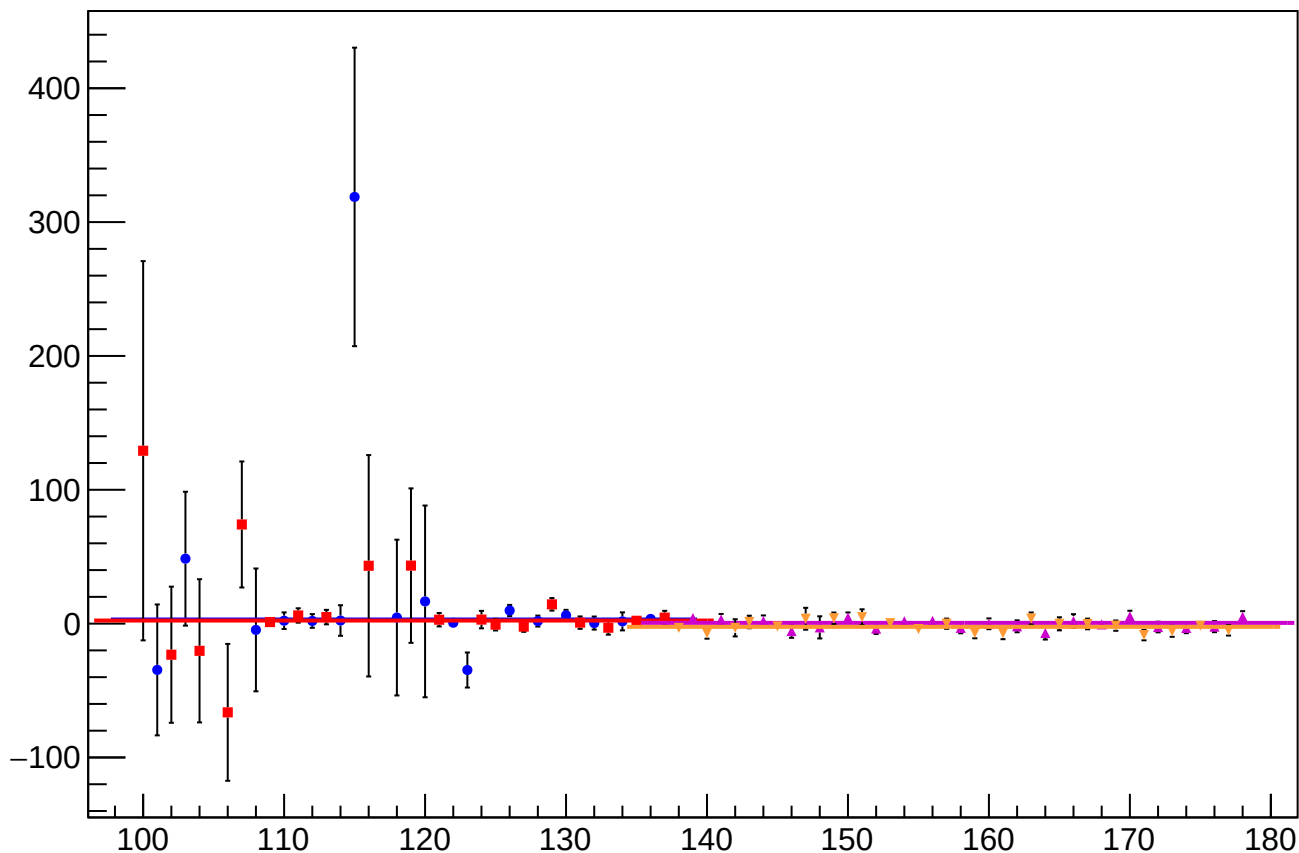
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

In: 1112.807 $\pm$ 0.179 χ^2 /NDF:5665228.4/36

Out: 1108.405 $\pm$ 0.176 χ^2 /NDF:5702069.1/39

All: 1110.568 $\pm$ 0.126 χ^2 /NDF: 11367604.2/77

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

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

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

Left In: 0.550 ± 0.891 $\chi^2/\text{NDF}: 15.3/19$

Left: -0.969 ± 0.623 $\chi^2/\text{NDF}: 37.1/40$

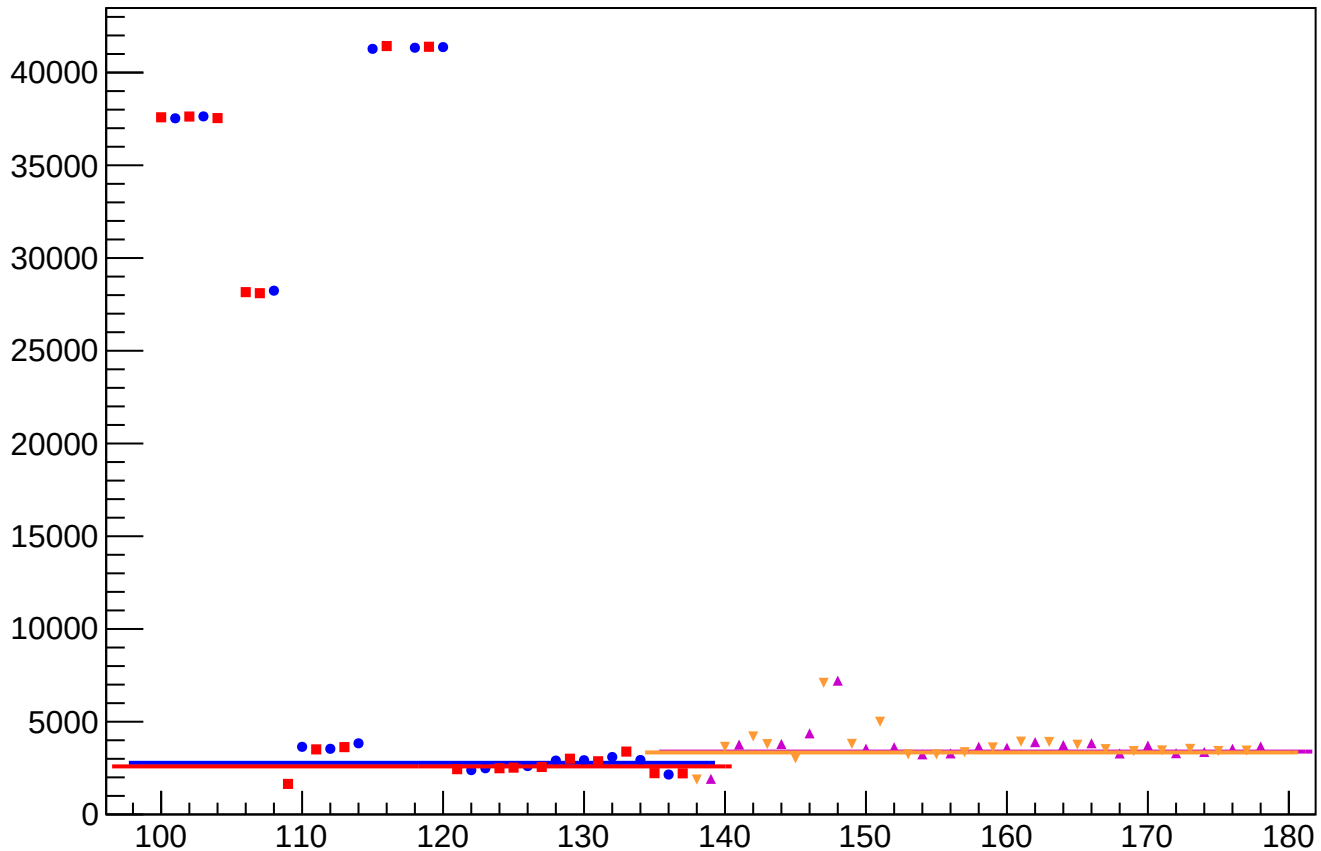
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.338 ± 0.739 $\chi^2/\text{NDF}: 39.7/36$

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

All: 0.203 ± 0.513 $\chi^2/\text{NDF}: 87.1/76$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

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

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

Left In: 3389.679 ± 0.630 $\chi^2/\text{NDF}: 1416226.8/19$

Left: 3366.407 ± 0.440 $\chi^2/\text{NDF}: 3046645.9/40$

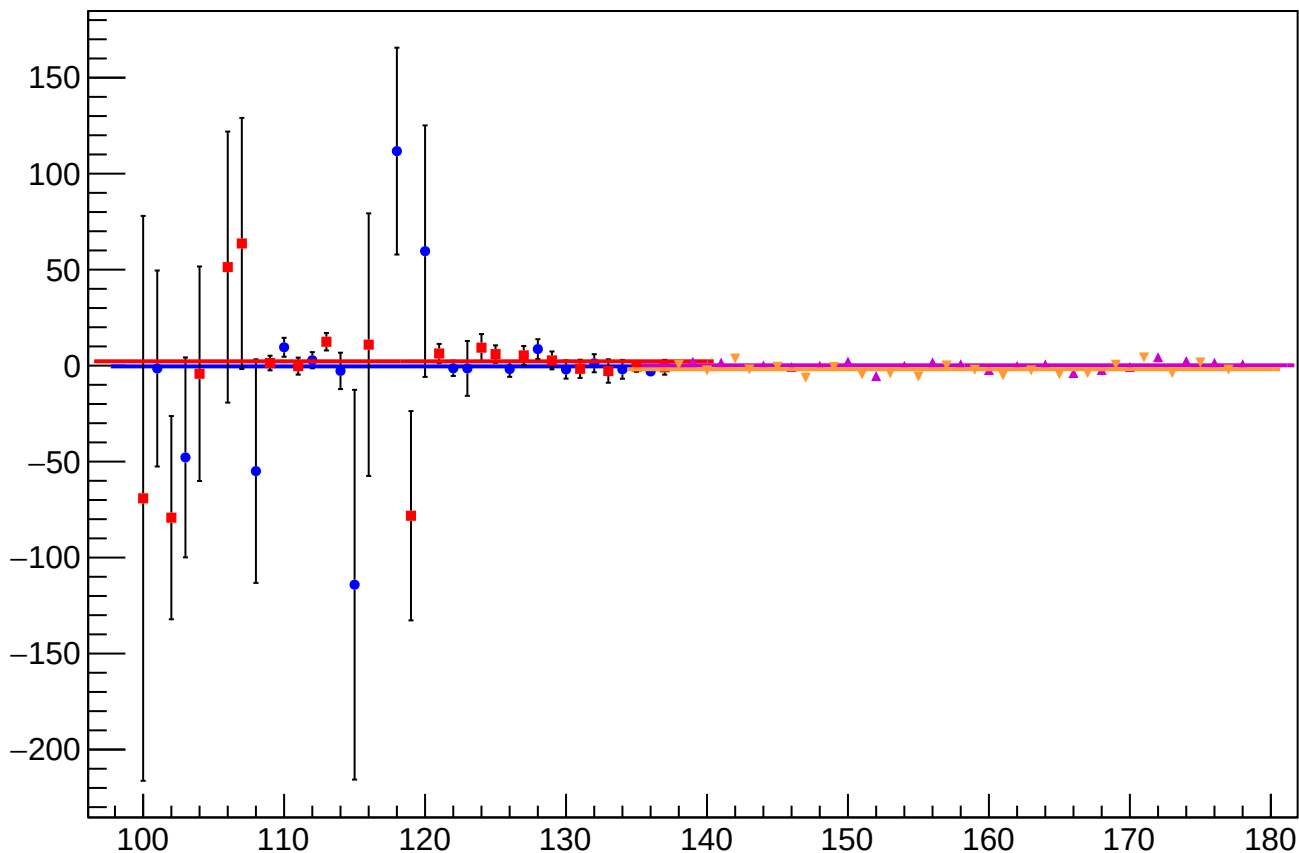
Right: 2680.897 ± 0.638 $\chi^2/\text{NDF}: 9446853.4/35$

In: 3200.797 ± 0.523 $\chi^2/\text{NDF}: 6282022.8/36$

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

All: 3145.281 ± 0.363 $\chi^2/\text{NDF}: 13274880.0/77$

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.873 $\pm$ 0.420 χ^2/NDF :42.5/20

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

Left In: 0.159 $\pm$ 0.425 χ^2/NDF :24.9/19

Left: -0.870 $\pm$ 0.299 χ^2/NDF : 78.9/40

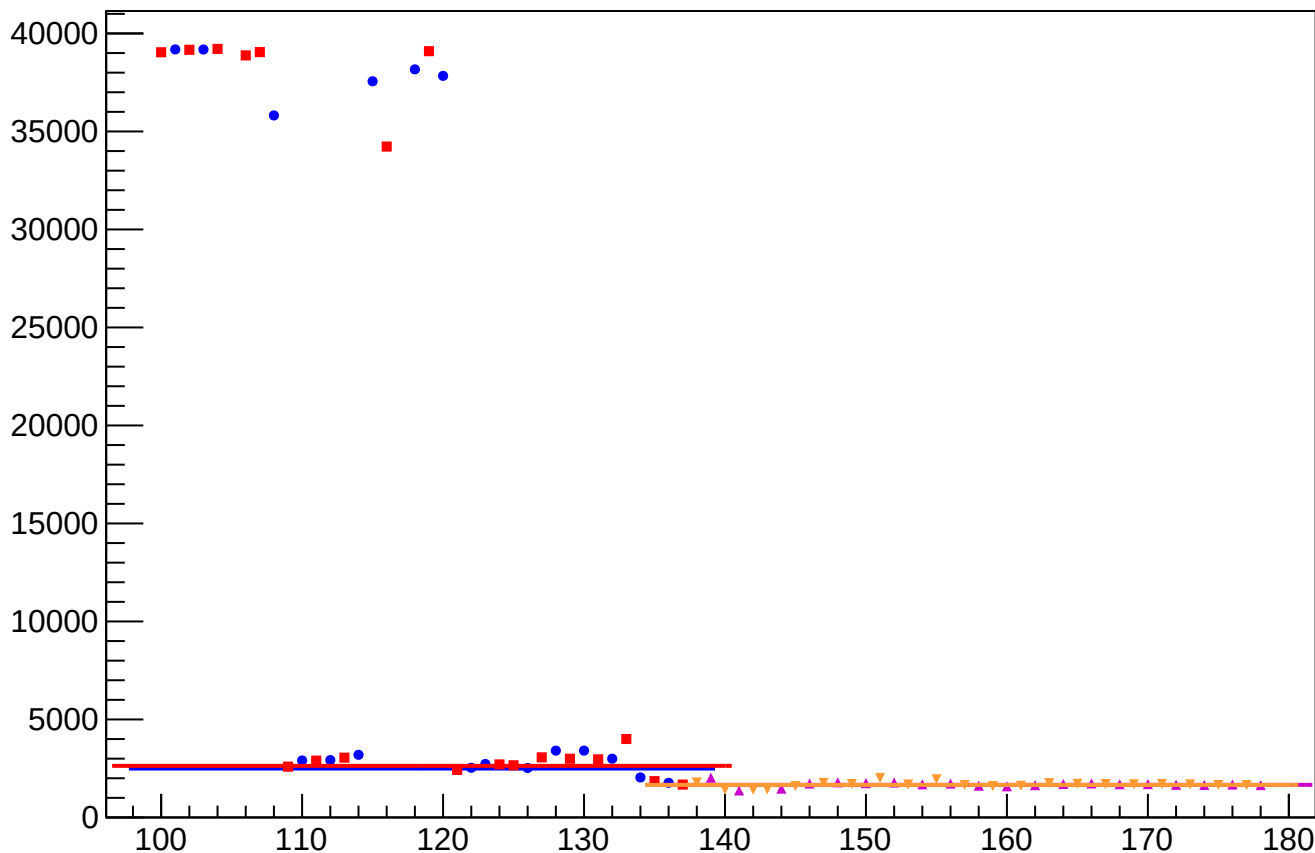
Right: 0.890 $\pm$ 0.871 χ^2/NDF : 38.0/35

In: 0.098 $\pm$ 0.401 χ^2/NDF :43.3/36

Out: -1.453 $\pm$ 0.398 χ^2/NDF :69.7/39

All: -0.685 $\pm$ 0.283 χ^2/NDF : 120.6/76

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

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

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

Left In: 1662.777 $\pm$ 0.301 χ^2 /NDF: 178454.3/19

Left: 1661.571 $\pm$ 0.211 χ^2 /NDF: 393361.7/40

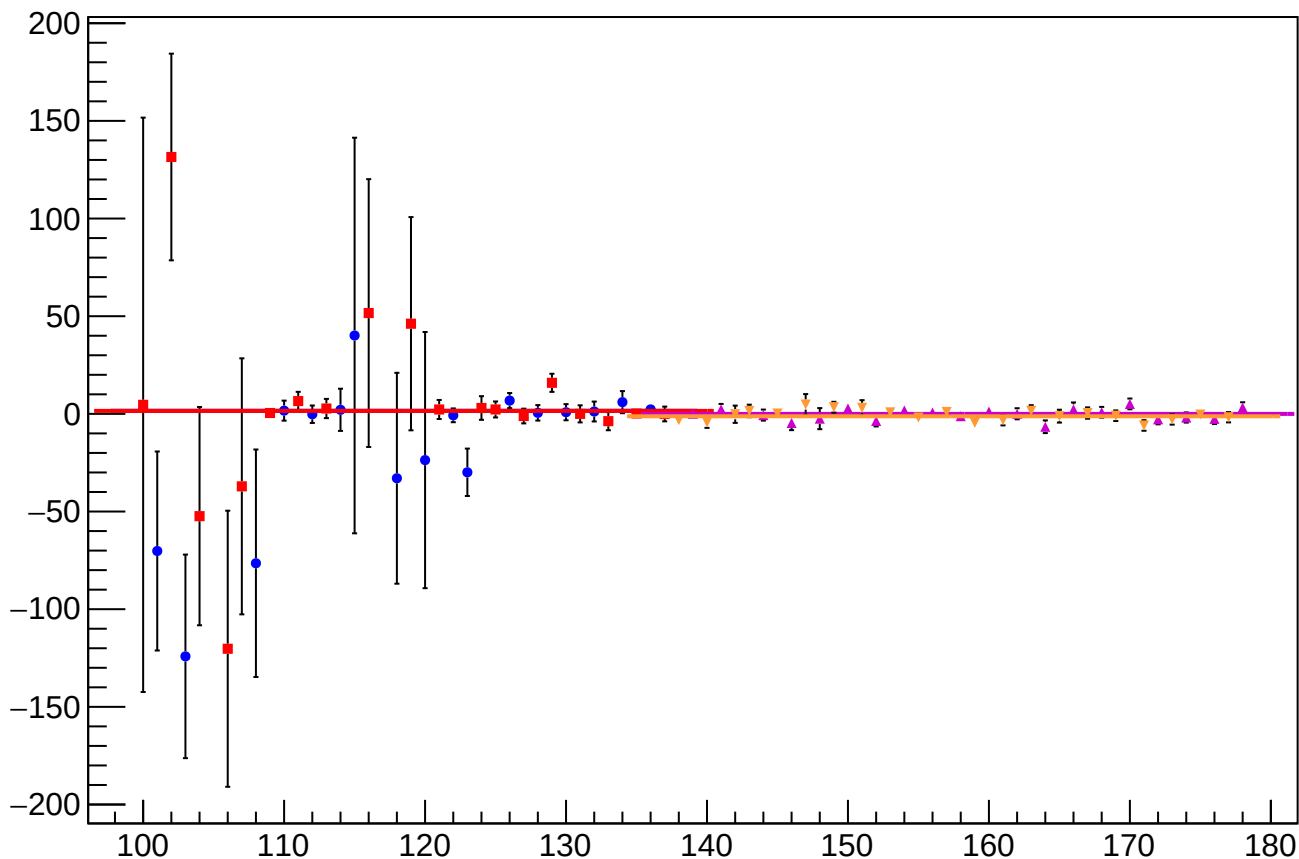
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1753.283 $\pm$ 0.284 χ^2 /NDF: 5894473.8/36

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

All: 1756.458 $\pm$ 0.200 χ^2 /NDF: 12065175.1/74

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.231 ± 0.577 $\chi^2/\text{NDF}: 18.5/20$

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

Left In: -0.018 ± 0.573 $\chi^2/\text{NDF}: 18.6/19$

Left: -0.620 ± 0.406 $\chi^2/\text{NDF}: 39.4/40$

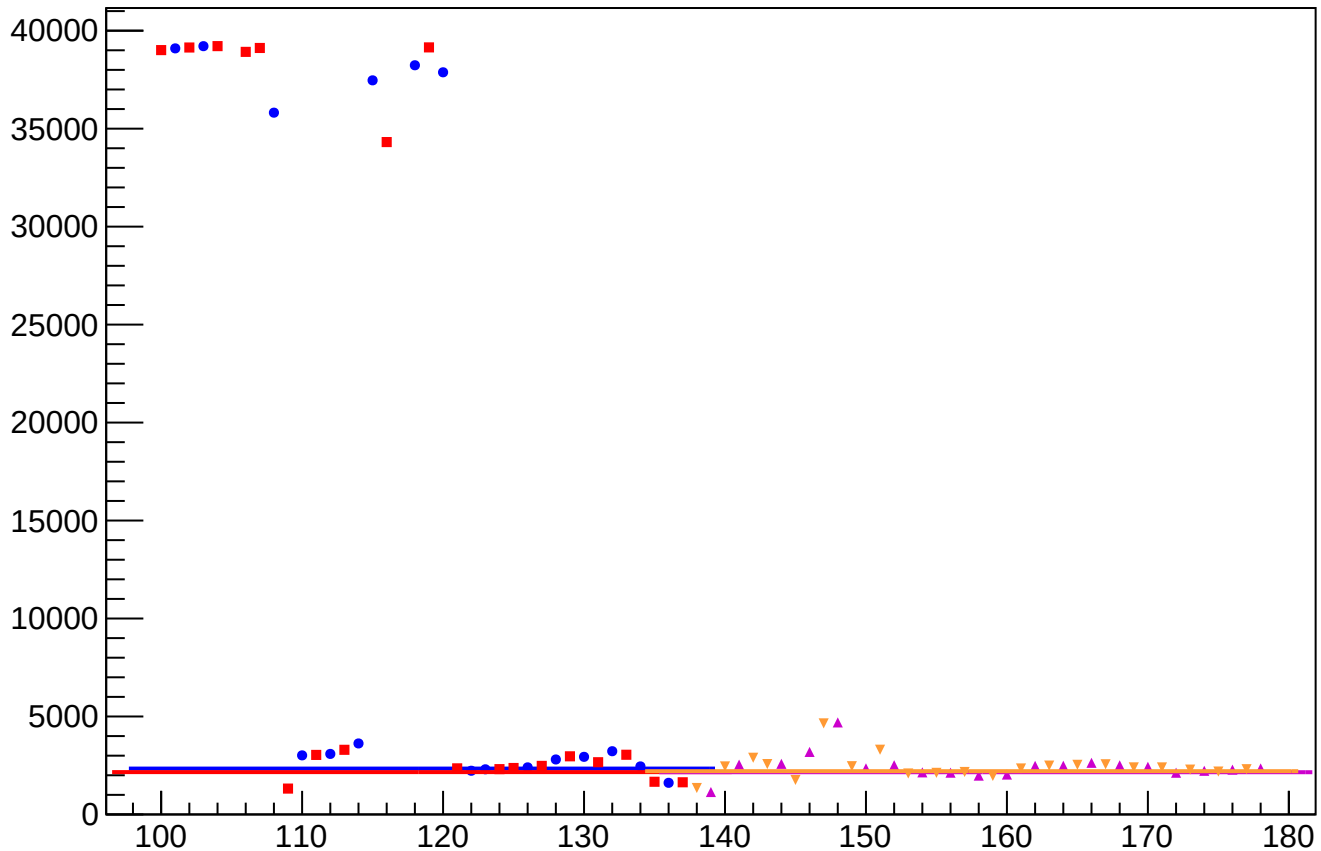
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.302 ± 0.512 $\chi^2/\text{NDF}: 40.5/36$

Out: -0.603 ± 0.507 $\chi^2/\text{NDF}: 48.7/39$

All: -0.155 ± 0.360 $\chi^2/\text{NDF}: 90.8/76$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

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

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

Left In: 2155.635+/-0.405 χ^2/NDF : 1963004.6/19

Left: 2181.837+/-0.287 χ^2/NDF : 3379216.9/40

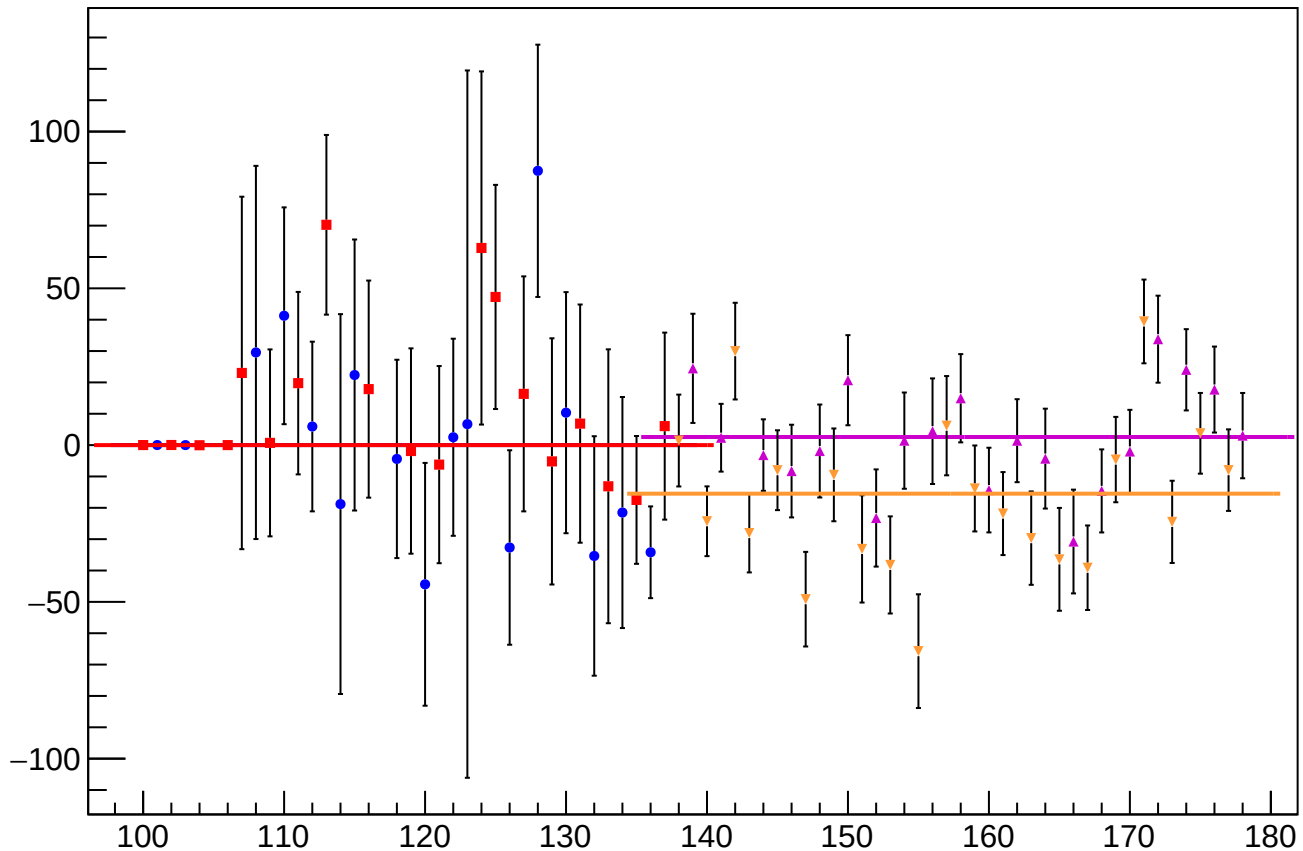
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2192.867+/-0.362 χ^2/NDF : 7011974.5/36

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

All: 2195.283+/-0.255 χ^2/NDF : 13721950.6/79

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -15.490 $\pm$ 3.063 χ^2/NDF : 56.4/20

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

Left In: 2.584 $\pm$ 3.123 χ^2/NDF : 24.3/19

Left: -6.627 $\pm$ 2.187 χ^2/NDF : 97.7/40

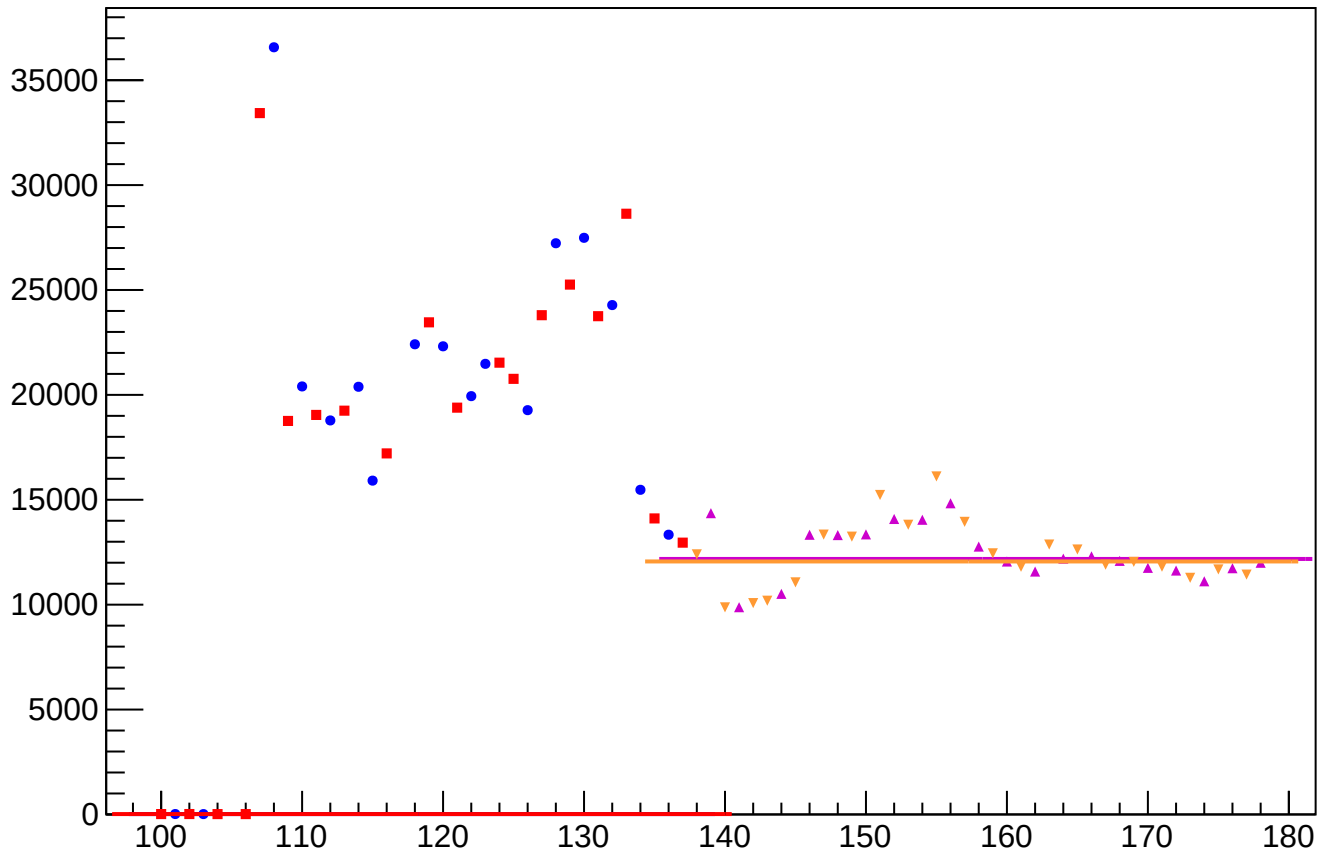
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 32.5/35

In: 0.013 $\pm$ 0.017 χ^2/NDF : 41.1/36

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 97.8/39

All: 0.004 $\pm$ 0.012 χ^2/NDF : 139.4/76

diff_cav4bX_rms vs Slug, Sign Corrected



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

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

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

Left In: 12179.094 $\pm$ 2.208 χ^2 /NDF: 340479.5/19

Left: 12118.383 $\pm$ 1.546 χ^2 /NDF: 785047.9/40

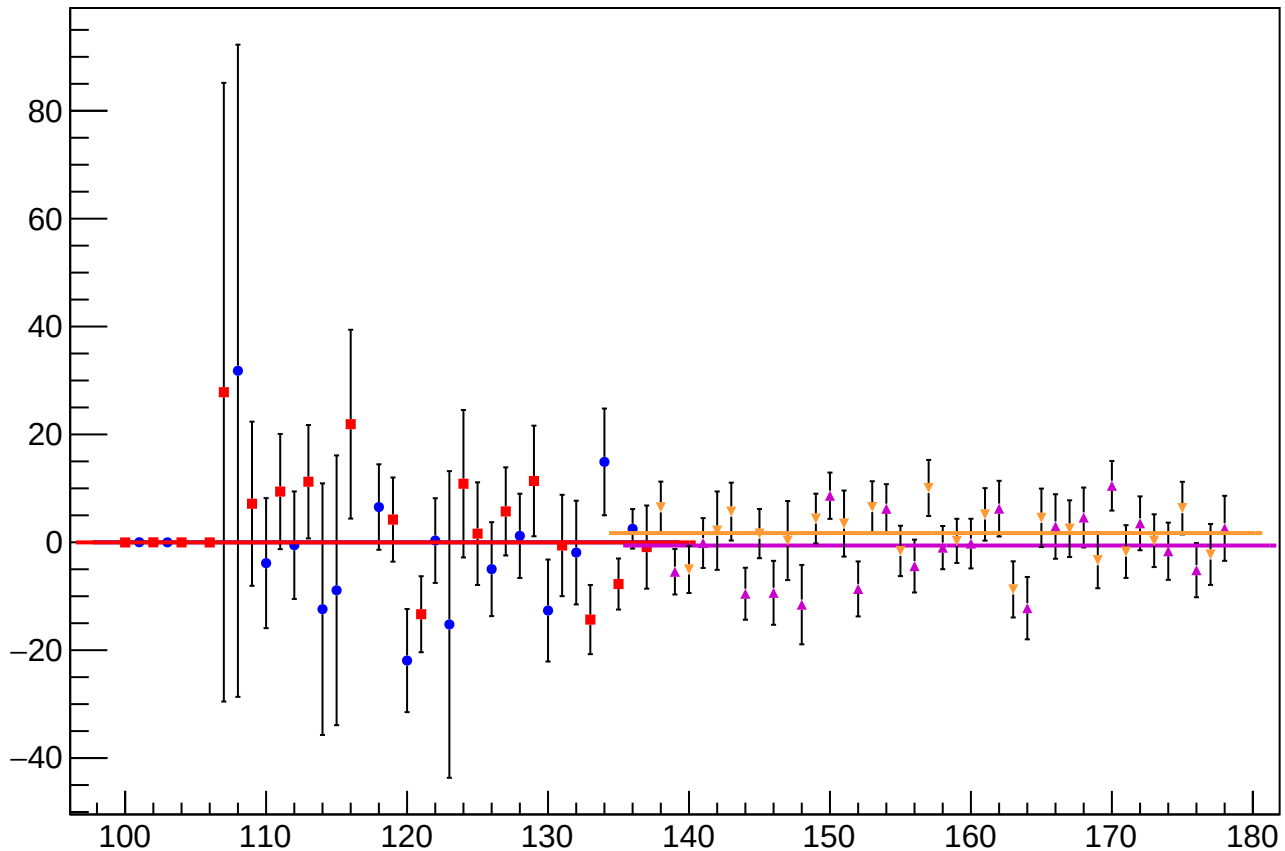
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 19.016 $\pm$ 0.012 χ^2 /NDF: 41648125.9/36

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

All: 18.816 $\pm$ 0.008 χ^2 /NDF: 84107655.9/76

diff_cav4bY_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.598 ± 1.116 $\chi^2/\text{NDF}: 33.8/19$

Left: 0.568 ± 0.785 $\chi^2/\text{NDF}: 52.3/40$

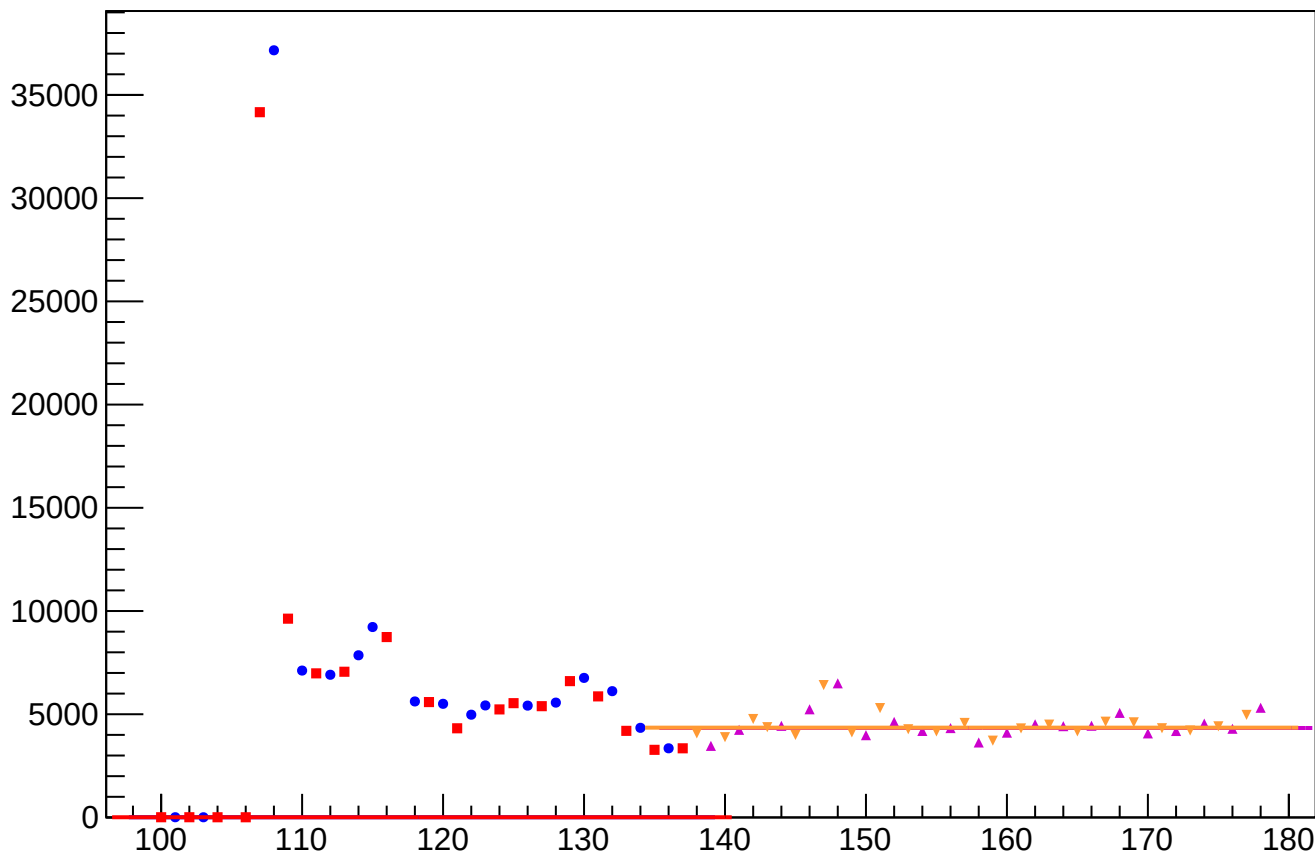
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 47.1/36$

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

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 85.8/76$

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4349.941 $\pm$ 0.781 χ^2 /NDF:355047.8/20

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

Left In: 4333.458 $\pm$ 0.789 χ^2 /NDF:496261.5/19

Left: 4341.785 $\pm$ 0.555 χ^2 /NDF: 851529.8/40

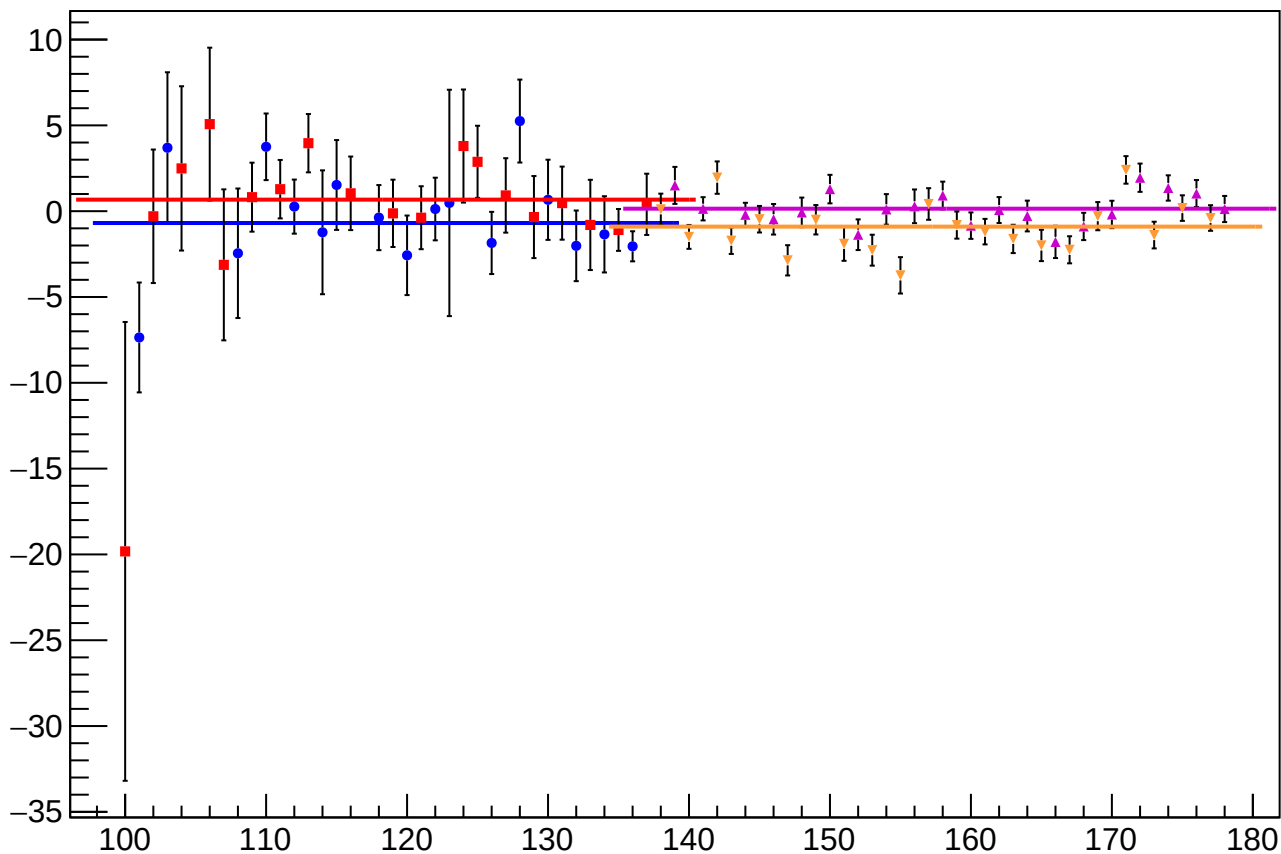
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22274609.0/35

In: 10.233 $\pm$ 0.007 χ^2 /NDF:41633702.9/36

Out: 10.121 $\pm$ 0.006 χ^2 /NDF:42398996.2/39

All: 10.173 $\pm$ 0.004 χ^2 /NDF: 84032857.4/76

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.689 $\pm$ 0.482 χ^2/NDF : 22.5/16

Left Out: -0.899 $\pm$ 0.181 χ^2/NDF : 56.1/20

Right Out: 0.672 $\pm$ 0.501 χ^2/NDF : 13.3/18

Left In: 0.145 $\pm$ 0.183 χ^2/NDF : 24.8/19

Left: -0.384 $\pm$ 0.129 χ^2/NDF : 97.4/40

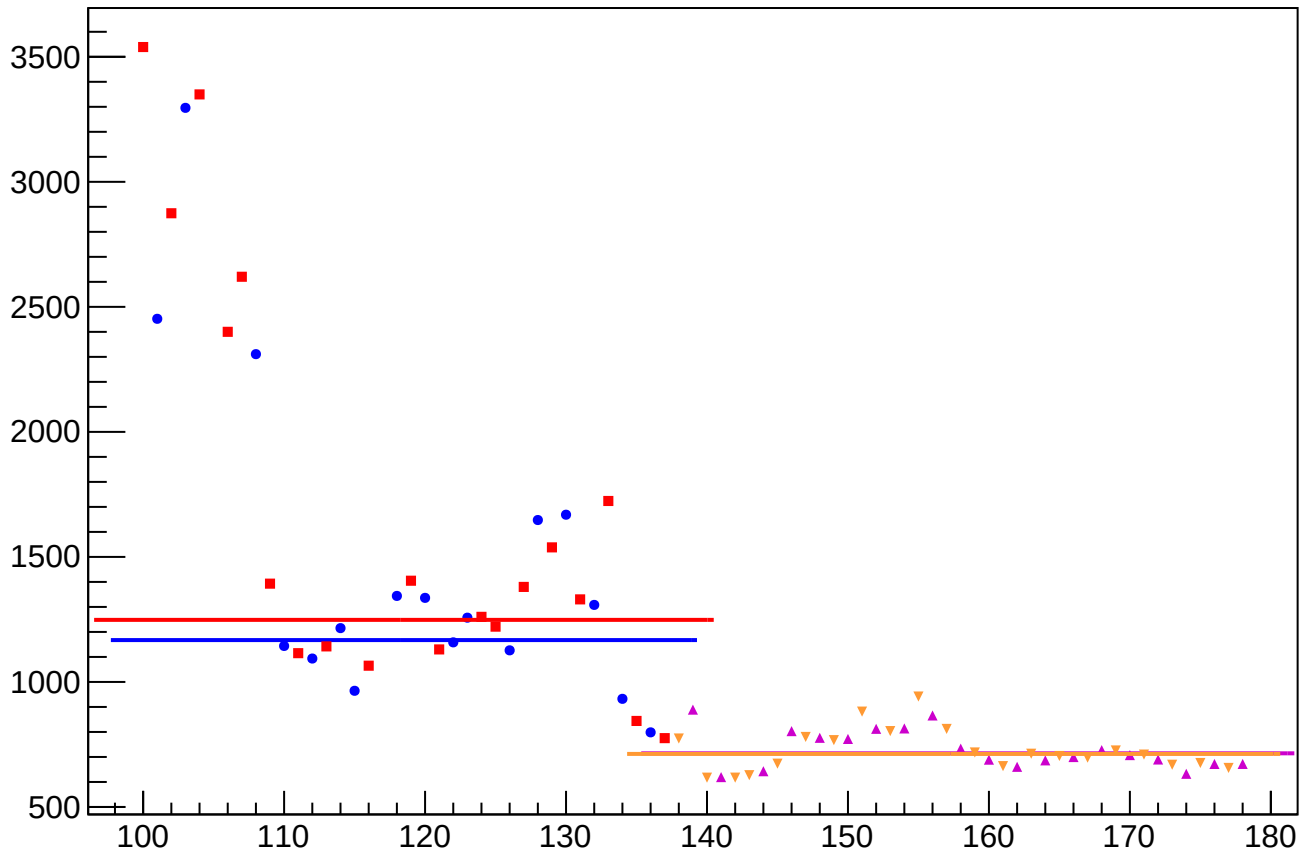
Right: -0.034 $\pm$ 0.347 χ^2/NDF : 39.7/35

In: 0.040 $\pm$ 0.171 χ^2/NDF : 49.9/36

Out: -0.719 $\pm$ 0.170 χ^2/NDF : 78.1/39

All: -0.342 $\pm$ 0.121 χ^2/NDF : 137.9/76

diff_cav4cX_rms vs Slug, Sign Corrected



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

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

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

Left In: 714.551 $\pm$ 0.129 χ^2 /NDF: 304463.5/19

Left: 713.344 $\pm$ 0.091 χ^2 /NDF: 649435.1/40

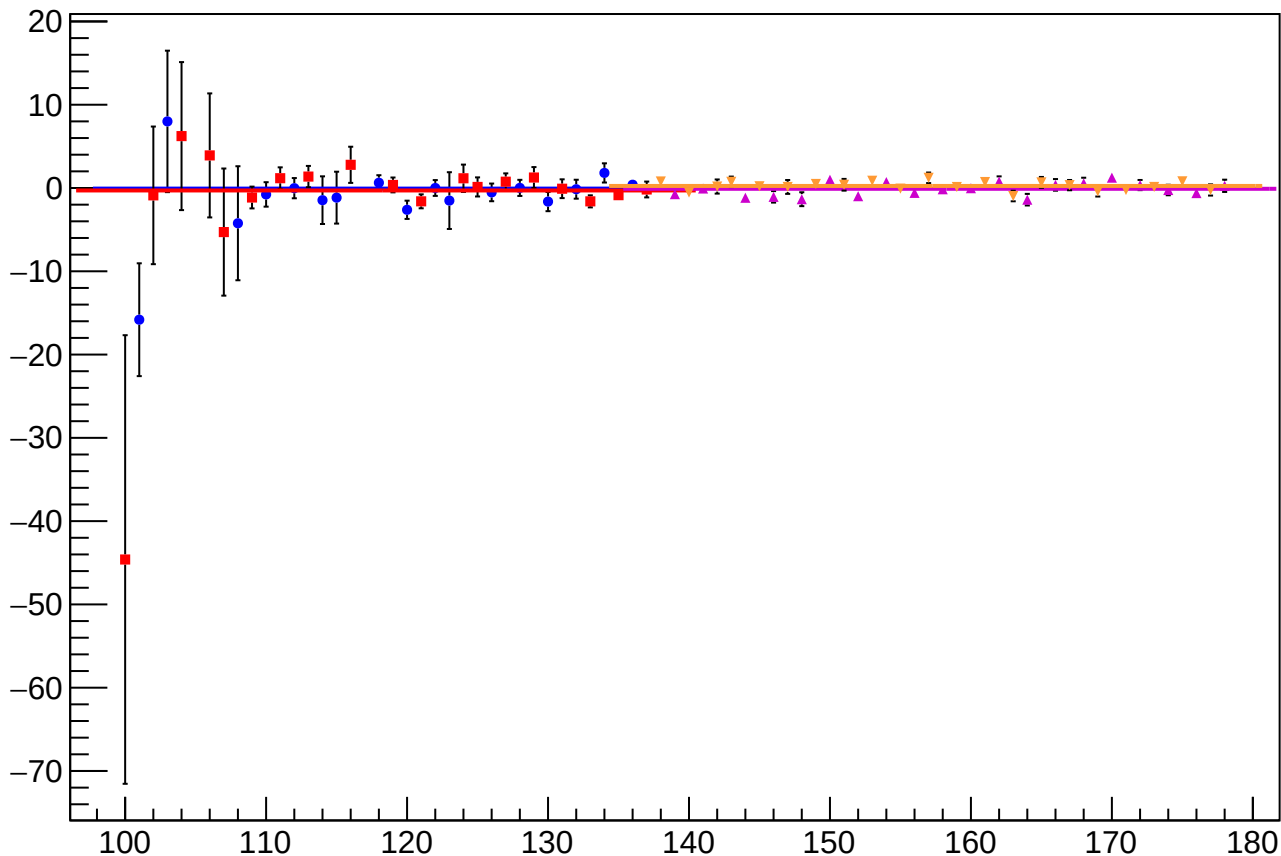
Right: 1206.306 $\pm$ 0.246 χ^2 /NDF: 3259405.5/35

In: 771.588 $\pm$ 0.121 χ^2 /NDF: 3424070.4/36

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

All: 772.730 $\pm$ 0.085 χ^2 /NDF: 7452010.5/76

diff_cav4cY_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.095 ± 0.134 χ^2/NDF : 33.2/19

Left: 0.078 ± 0.094 χ^2/NDF : 52.5/40

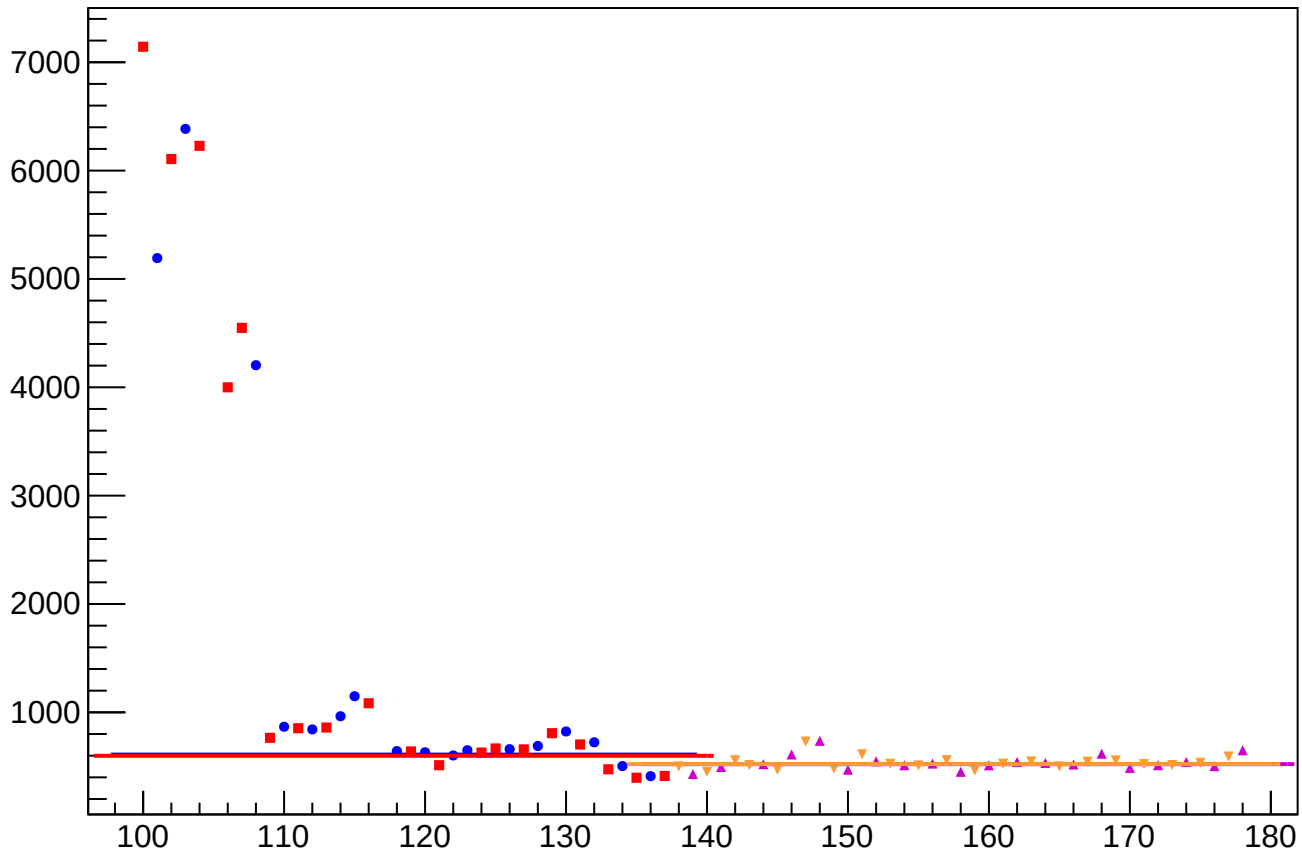
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.090 ± 0.120 χ^2/NDF : 52.5/36

Out: 0.138 ± 0.118 χ^2/NDF : 39.6/39

All: 0.026 ± 0.084 χ^2/NDF : 93.9/76

diff_cav4cY_rms vs Slug, Sign Corrected



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

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

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

Left In: 521.758 $\pm$ 0.095 χ^2 /NDF:413782.6/19

Left: 522.011 $\pm$ 0.067 χ^2 /NDF: 718338.9/40

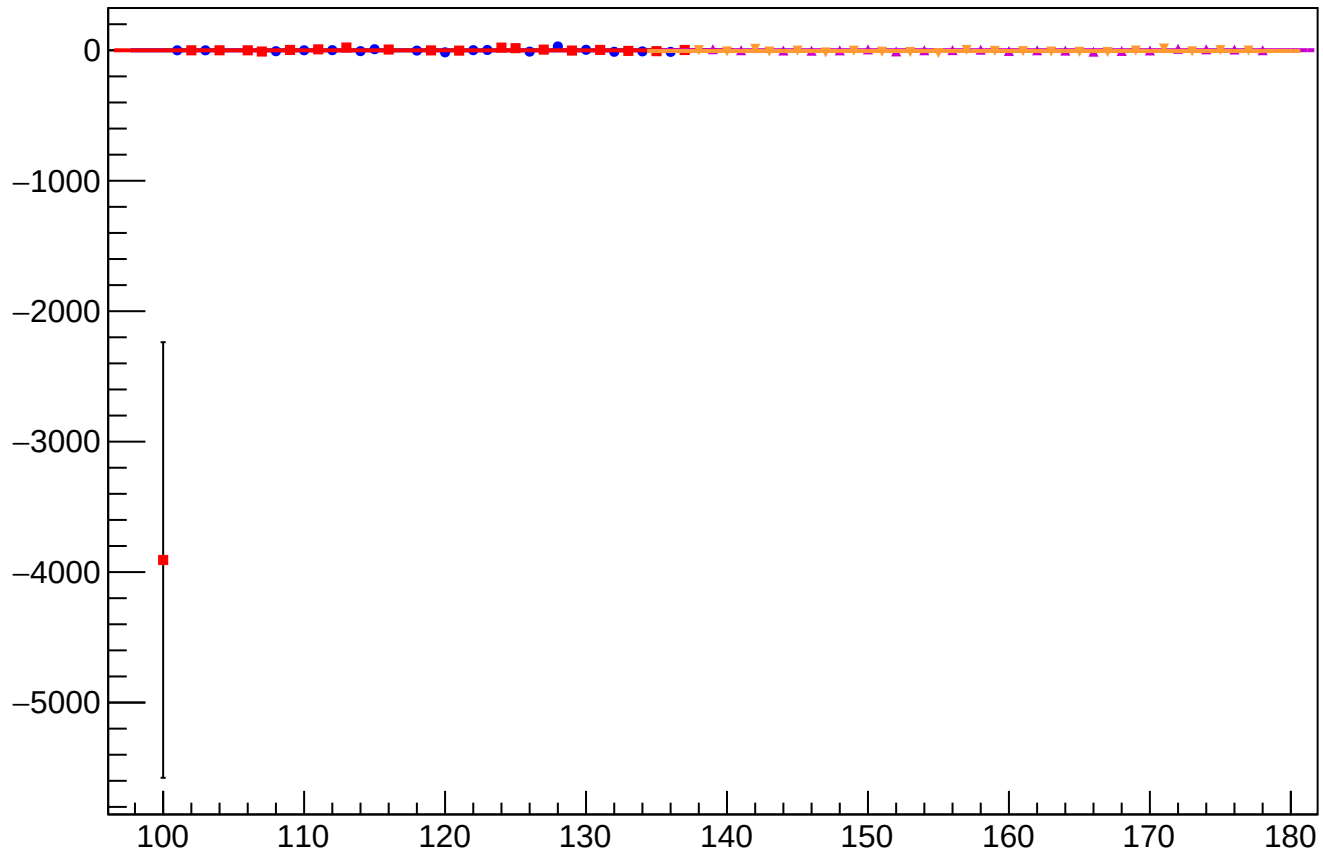
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 539.329 $\pm$ 0.085 χ^2 /NDF:3721693.4/36

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

All: 538.504 $\pm$ 0.060 χ^2 /NDF: 7713963.8/76

diff_cav4dX_mean vs Slug, Sign Corrected



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

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

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

Left In: 0.903 ± 1.066 χ^2/NDF : 25.0/19

Left: -2.186 ± 0.748 χ^2/NDF : 97.5/40

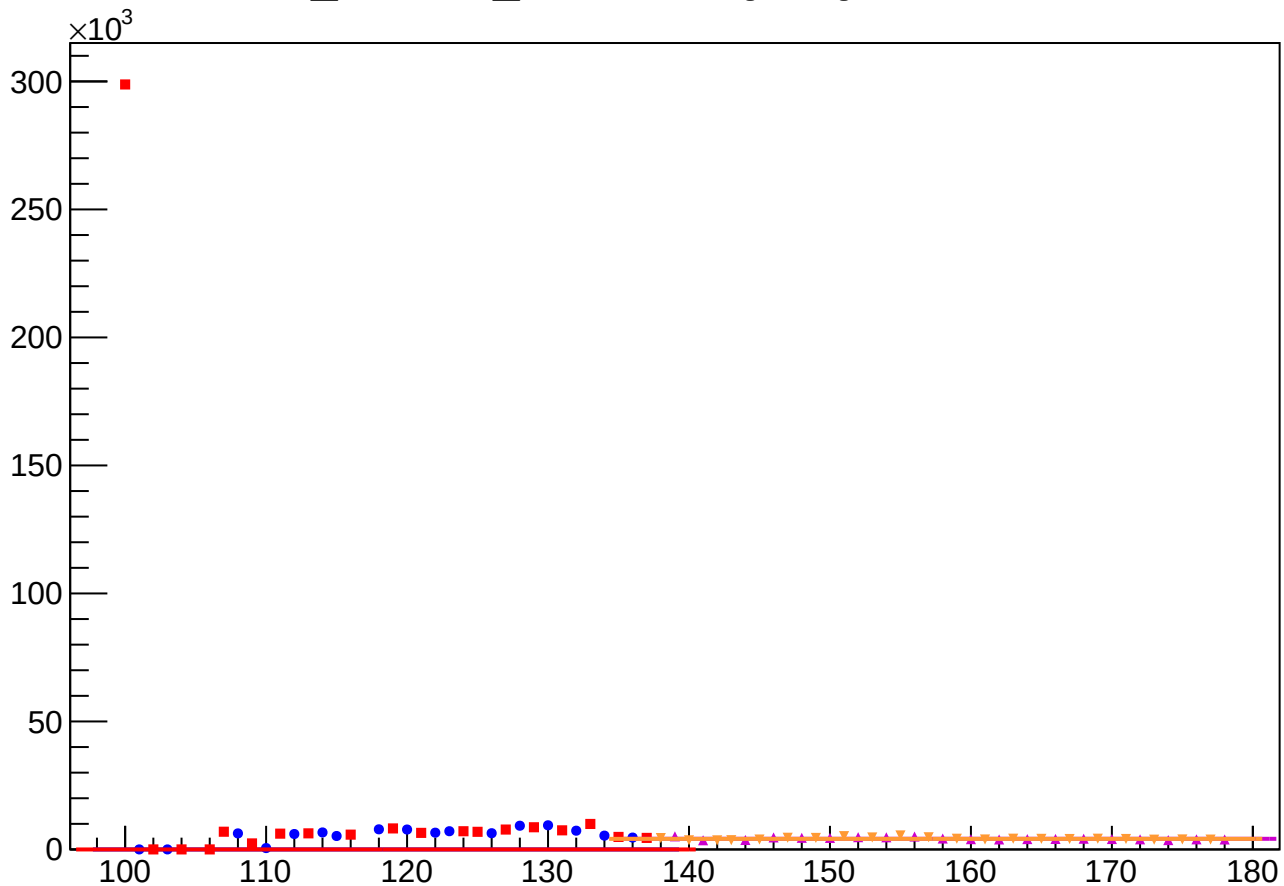
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.021 ± 0.021 χ^2/NDF : 41.3/36

Out: 0.025 ± 0.020 χ^2/NDF : 98.5/39

All: 0.003 ± 0.014 χ^2/NDF : 142.4/76

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4141.549 $\pm$ 0.743 χ^2/NDF : 366143.3/20

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

Left In: 4161.834 $\pm$ 0.754 χ^2/NDF : 315049.8/19

Left: 4151.537 $\pm$ 0.529 χ^2/NDF : 681560.3/40

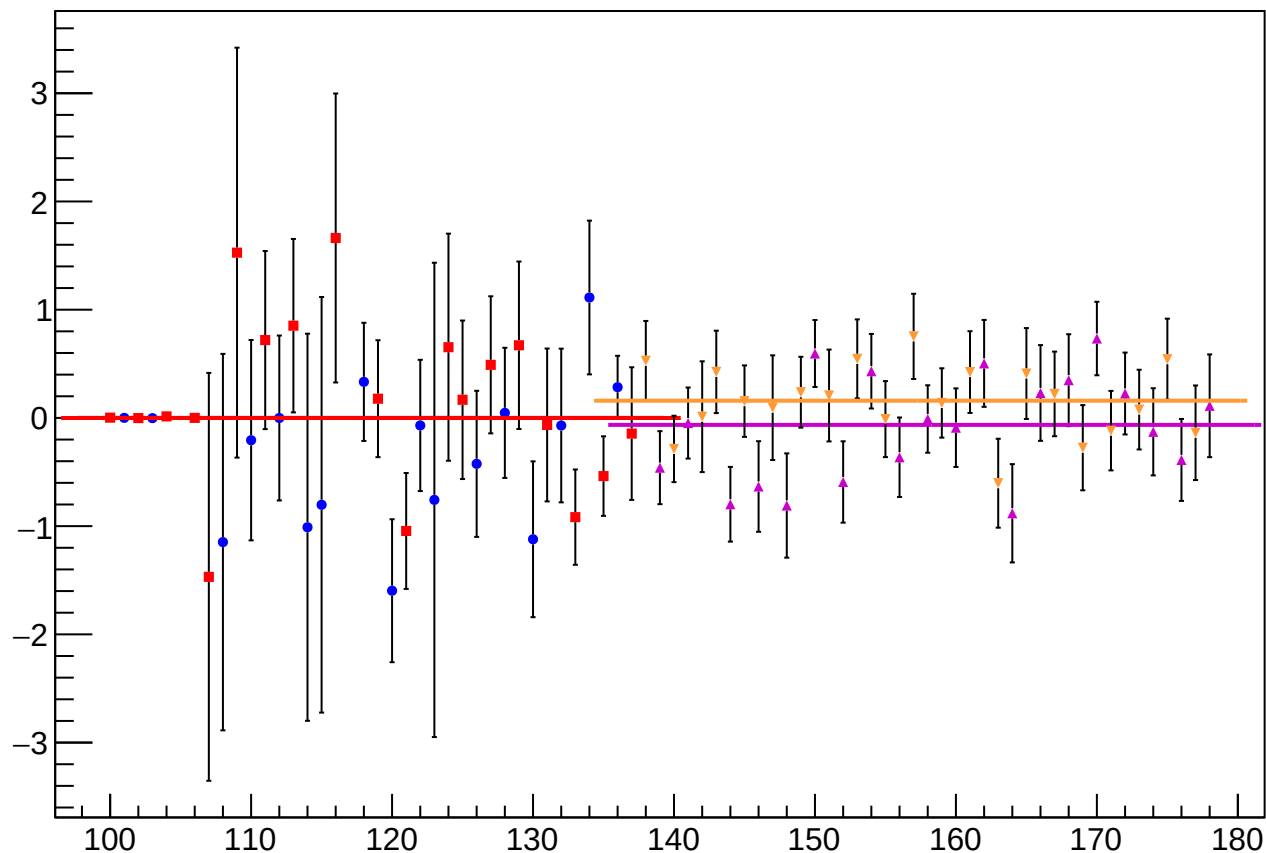
Right: 17.303 $\pm$ 0.010 χ^2/NDF : 21322069.2/35

In: 18.916 $\pm$ 0.015 χ^2/NDF : 41008838.3/36

Out: 18.730 $\pm$ 0.014 χ^2/NDF : 42013361.0/39

All: 18.818 $\pm$ 0.010 χ^2/NDF : 83022282.8/76

diff_cav4dY_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.064 $\pm$ 0.084 χ^2/NDF : 33.0/19

Left: 0.049 $\pm$ 0.059 χ^2/NDF : 51.8/40

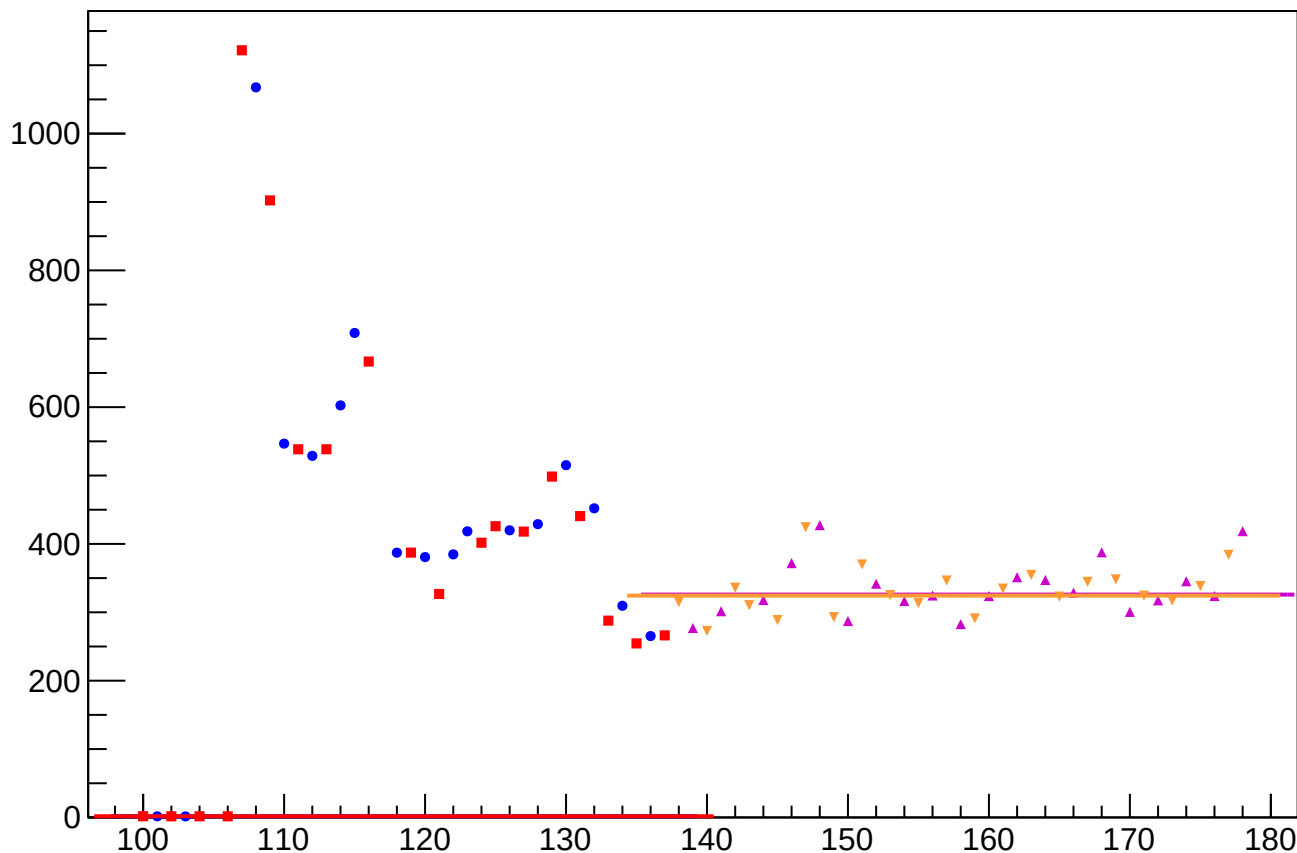
Right: -0.000 $\pm$ 0.001 χ^2/NDF : 31.8/35

In: 0.000 $\pm$ 0.002 χ^2/NDF : 47.4/36

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

All: -0.000 $\pm$ 0.001 χ^2/NDF : 84.3/76

diff_cav4dY_rms vs Slug, Sign Corrected



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

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

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

Left In: 325.876 ± 0.059 χ^2/NDF : 389841.4/19

Left: 325.160 ± 0.041 χ^2/NDF : 698225.6/40

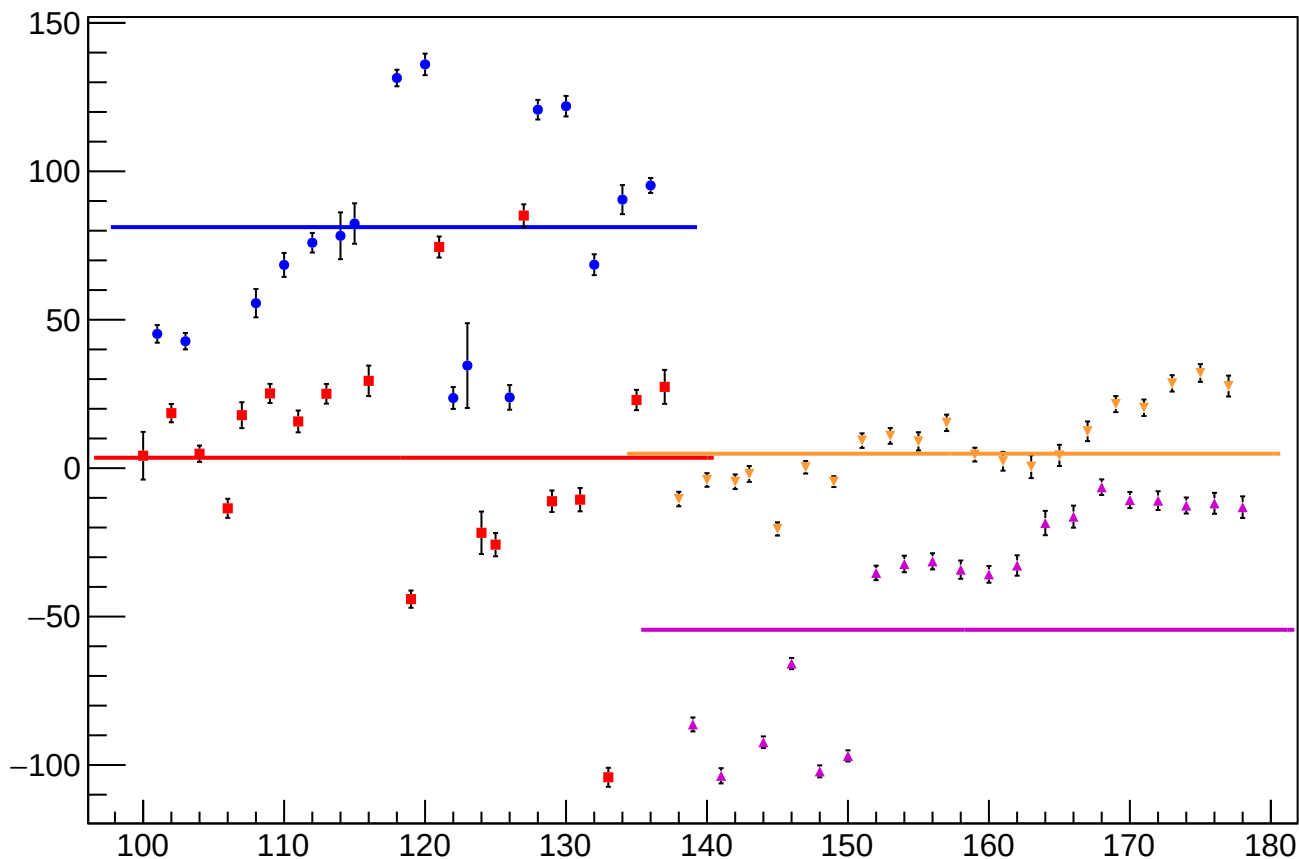
Right: 1.714 ± 0.001 χ^2/NDF : 21797153.2/35

In: 1.889 ± 0.001 χ^2/NDF : 41409331.6/36

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

All: 1.899 ± 0.001 χ^2/NDF : 83207694.6/76

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 4.877 ± 0.573 $\chi^2/\text{NDF}: 534.6/20$

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

Left In: -54.450 ± 0.582 $\chi^2/\text{NDF}: 3834.4/19$

Left: -24.334 ± 0.408 $\chi^2/\text{NDF}: 9651.9/40$

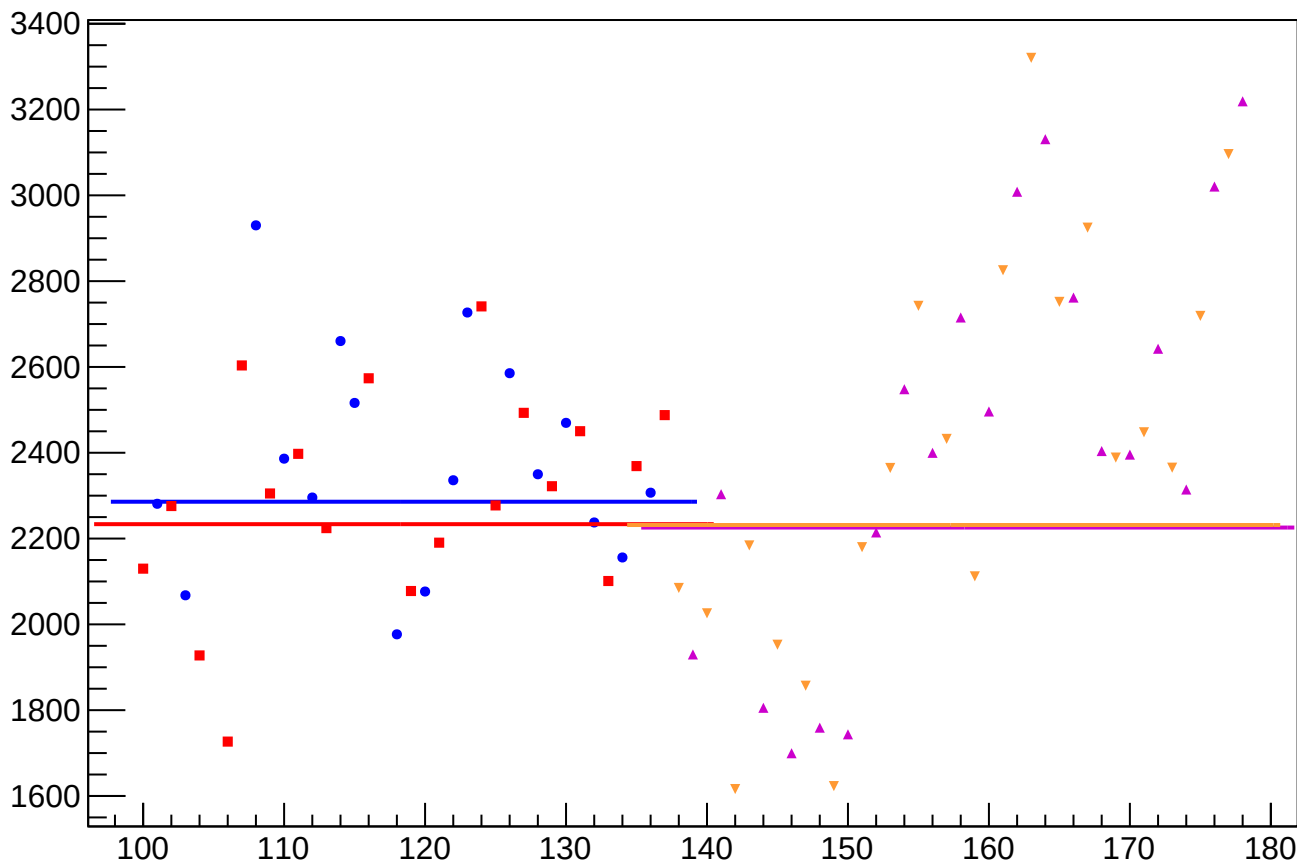
Right: 40.415 ± 0.610 $\chi^2/\text{NDF}: 8348.3/35$

In: -13.585 ± 0.486 $\chi^2/\text{NDF}: 21935.1/36$

Out: 4.445 ± 0.474 $\chi^2/\text{NDF}: 3135.4/39$

All: -4.336 ± 0.339 $\chi^2/\text{NDF}: 25776.1/76$

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2231.575 $\pm$ 0.405 χ^2 /NDF: 1101782.0/20

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

Left In: 2225.639 $\pm$ 0.411 χ^2 /NDF: 1170541.3/19

Left: 2228.652 $\pm$ 0.289 χ^2 /NDF: 2272429.1/40

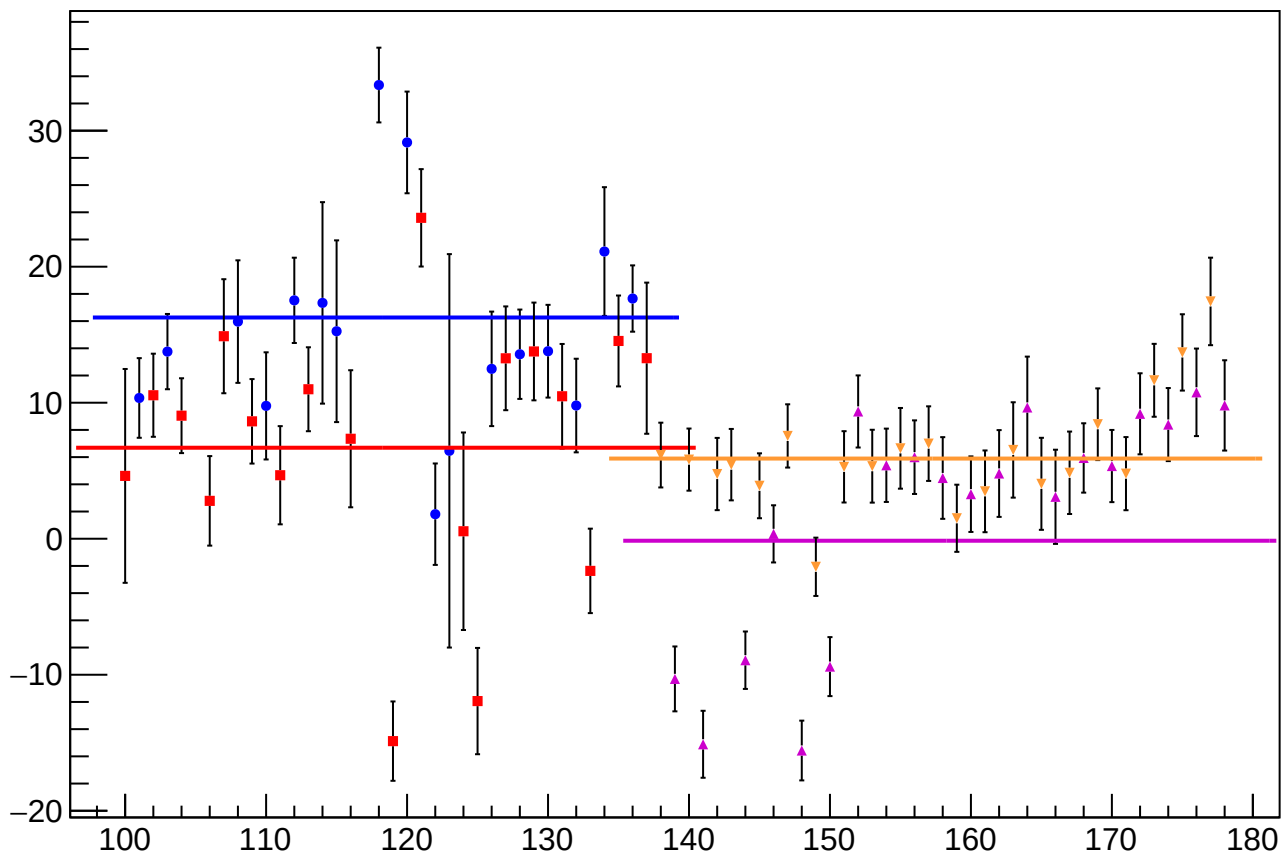
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

In: 2243.779 $\pm$ 0.344 χ^2 /NDF: 1286337.6/36

Out: 2232.198 $\pm$ 0.335 χ^2 /NDF: 1248638.0/39

All: 2237.838 $\pm$ 0.240 χ^2 /NDF: 2535557.9/76

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.148 ± 0.592 $\chi^2/\text{NDF}: 226.6/19$

Left: 2.928 ± 0.415 $\chi^2/\text{NDF}: 325.8/40$

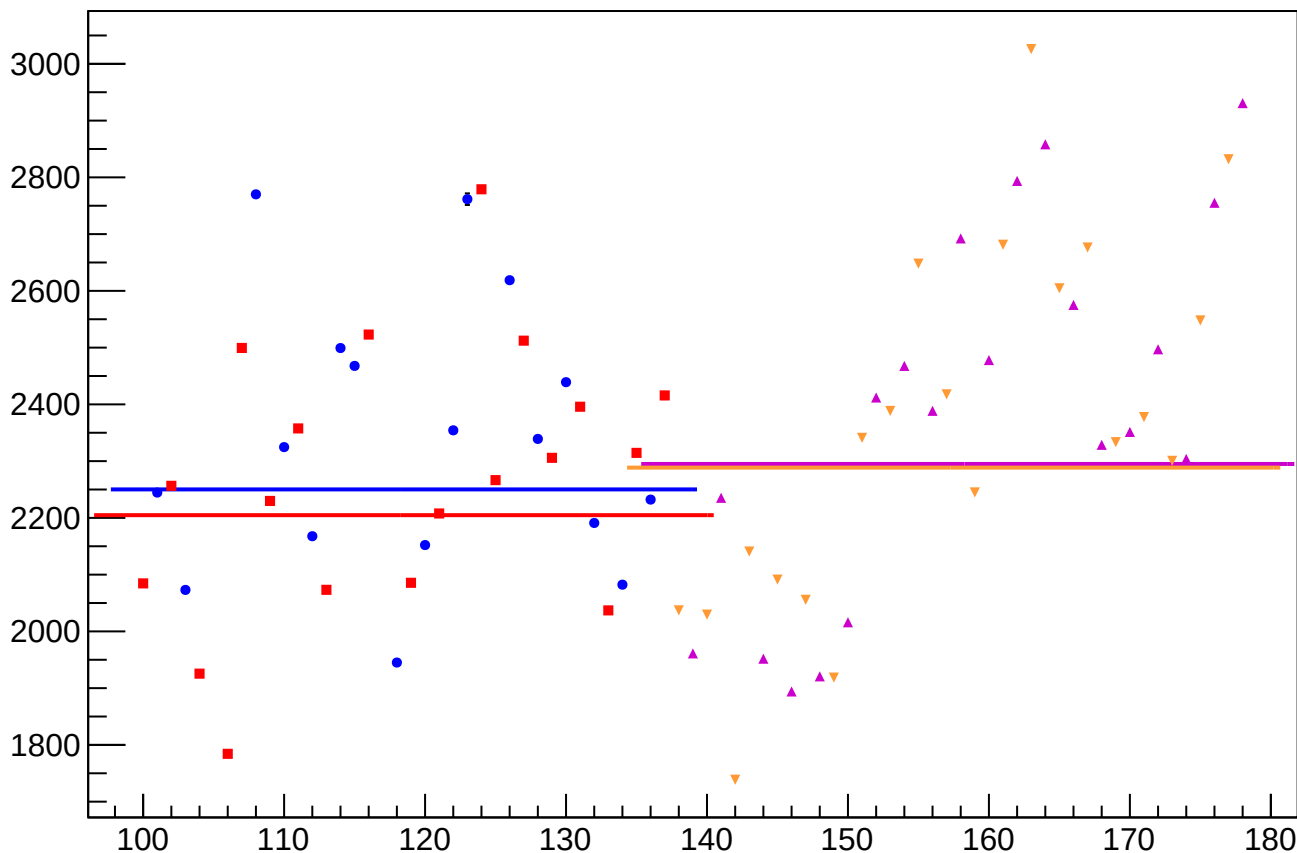
Right: 11.249 ± 0.601 $\chi^2/\text{NDF}: 278.0/35$

In: 5.031 ± 0.490 $\chi^2/\text{NDF}: 550.2/36$

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

All: 5.609 ± 0.341 $\chi^2/\text{NDF}: 733.6/76$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 2294.990+/-0.418 χ^2/NDF : 547405.7/19

Left: 2291.718+/-0.293 χ^2/NDF : 1068762.9/40

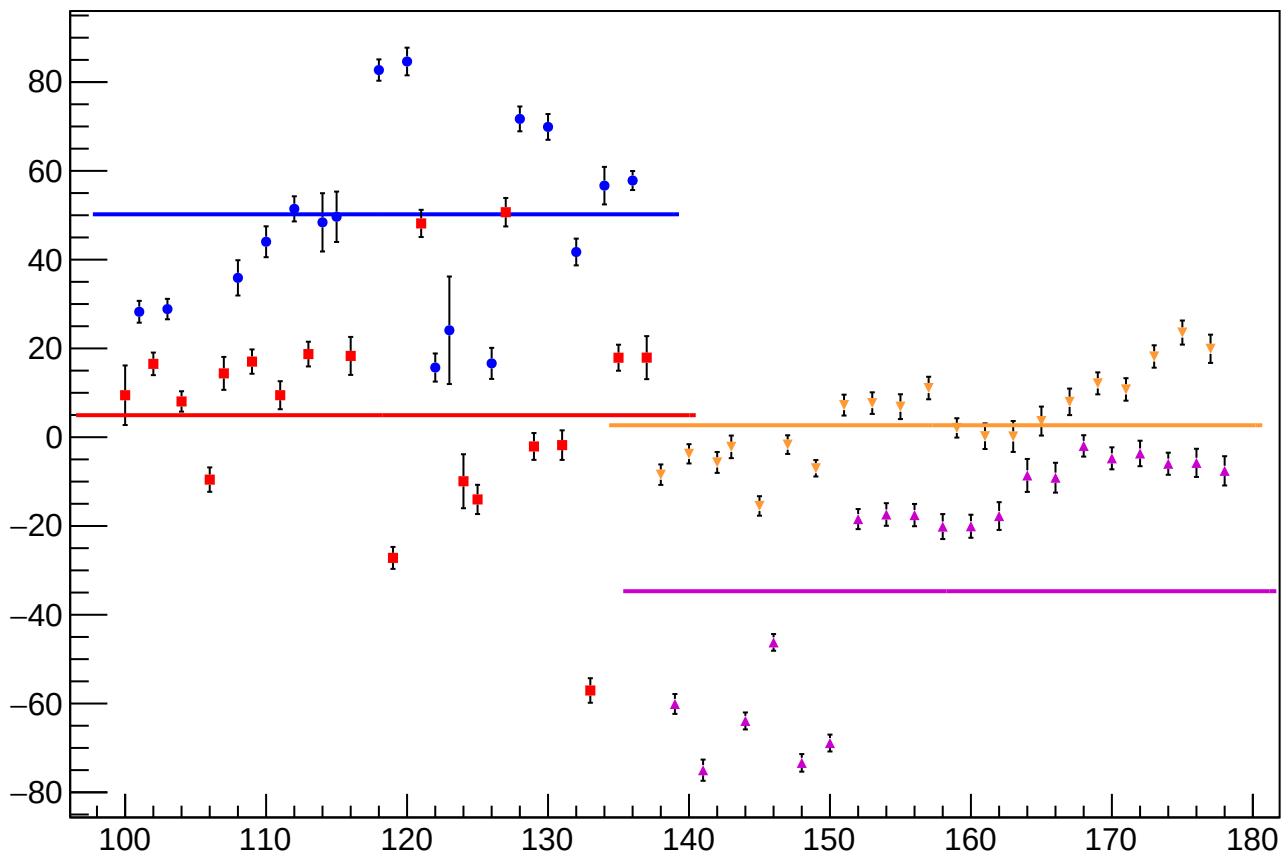
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

In: 2280.849+/-0.346 χ^2/NDF : 648603.5/36

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

All: 2270.672+/-0.241 χ^2/NDF : 1311407.5/76

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.215 ± 0.751 $\chi^2/\text{NDF}: 830.3/16$

Left Out: 2.693 ± 0.541 $\chi^2/\text{NDF}: 325.2/20$

Right Out: 4.958 ± 0.713 $\chi^2/\text{NDF}: 1262.6/18$

Left In: -34.691 ± 0.549 $\chi^2/\text{NDF}: 2458.7/19$

Left: -15.705 ± 0.385 $\chi^2/\text{NDF}: 5137.8/40$

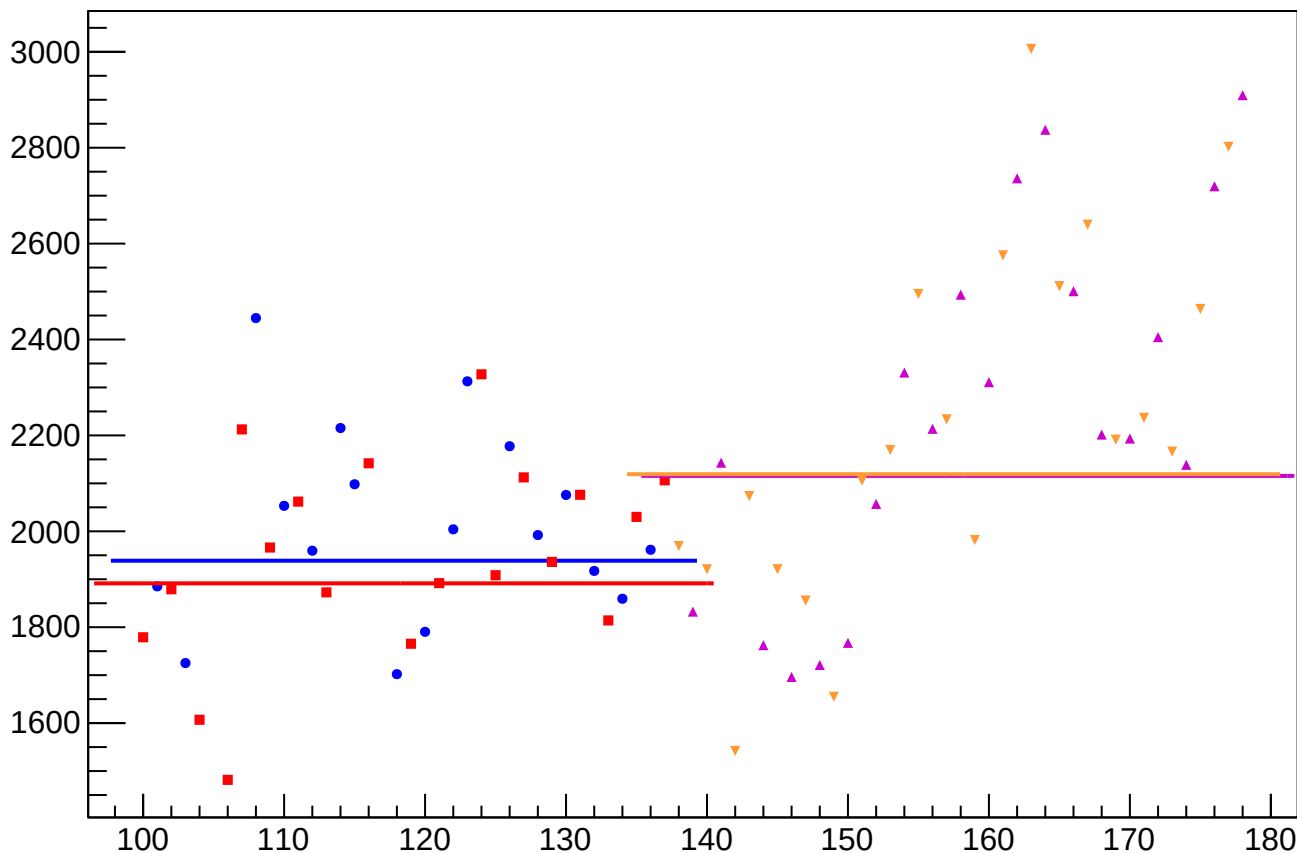
Right: 26.432 ± 0.517 $\chi^2/\text{NDF}: 4002.4/35$

In: -5.100 ± 0.443 $\chi^2/\text{NDF}: 11621.1/36$

Out: 3.519 ± 0.431 $\chi^2/\text{NDF}: 1594.2/39$

All: -0.668 ± 0.309 $\chi^2/\text{NDF}: 13409.7/76$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2119.092 $\pm$ 0.382 χ^2 /NDF: 768426.8/20

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

Left In: 2115.590 $\pm$ 0.388 χ^2 /NDF: 806100.3/19

Left: 2117.369 $\pm$ 0.272 χ^2 /NDF: 1574568.4/40

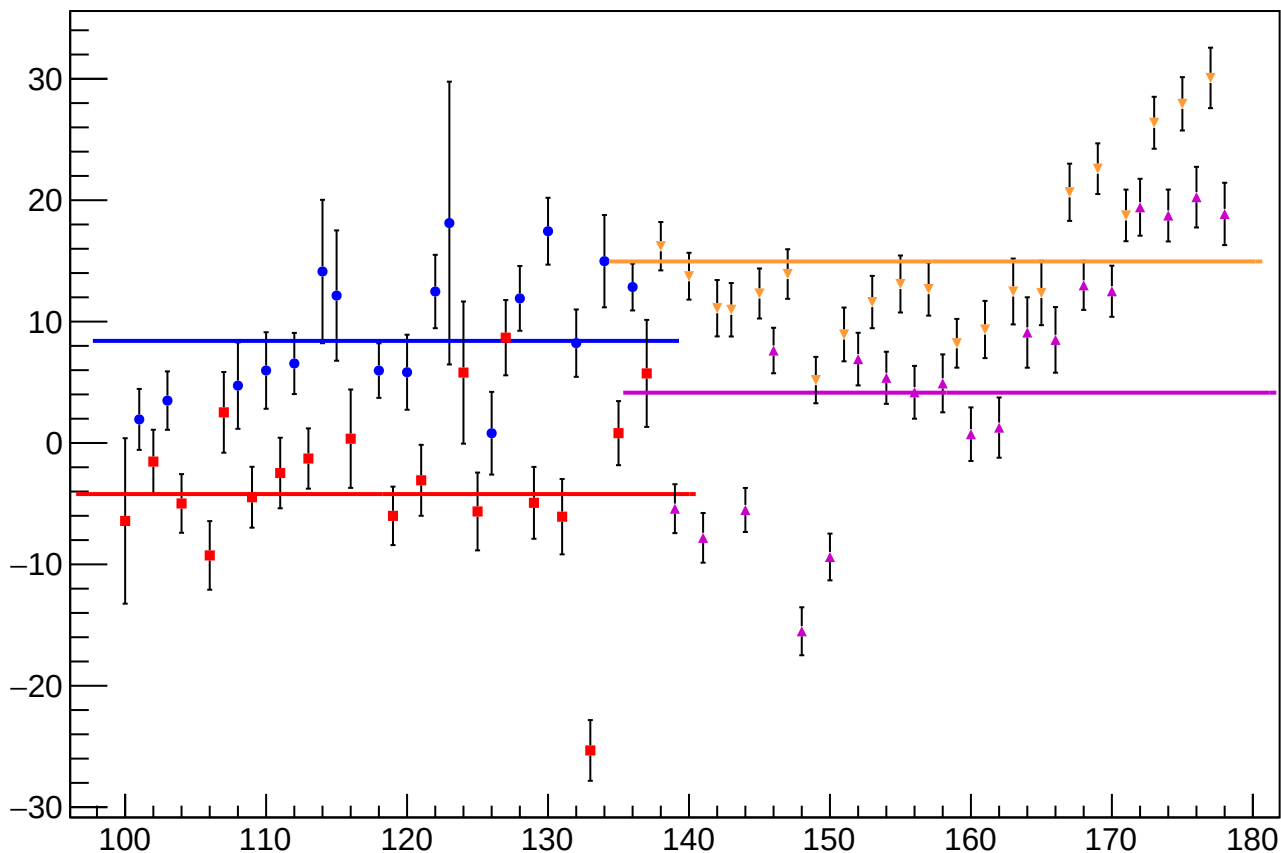
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

In: 2053.936 $\pm$ 0.313 χ^2 /NDF: 978581.4/36

Out: 2036.070 $\pm$ 0.305 χ^2 /NDF: 1044396.5/39

All: 2044.750 $\pm$ 0.218 χ^2 /NDF: 2024648.8/76

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 14.955 ± 0.477 χ^2/NDF : 187.7/20

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

Left In: 4.145 ± 0.487 χ^2/NDF : 446.6/19

Left: 9.657 ± 0.341 χ^2/NDF : 885.9/40

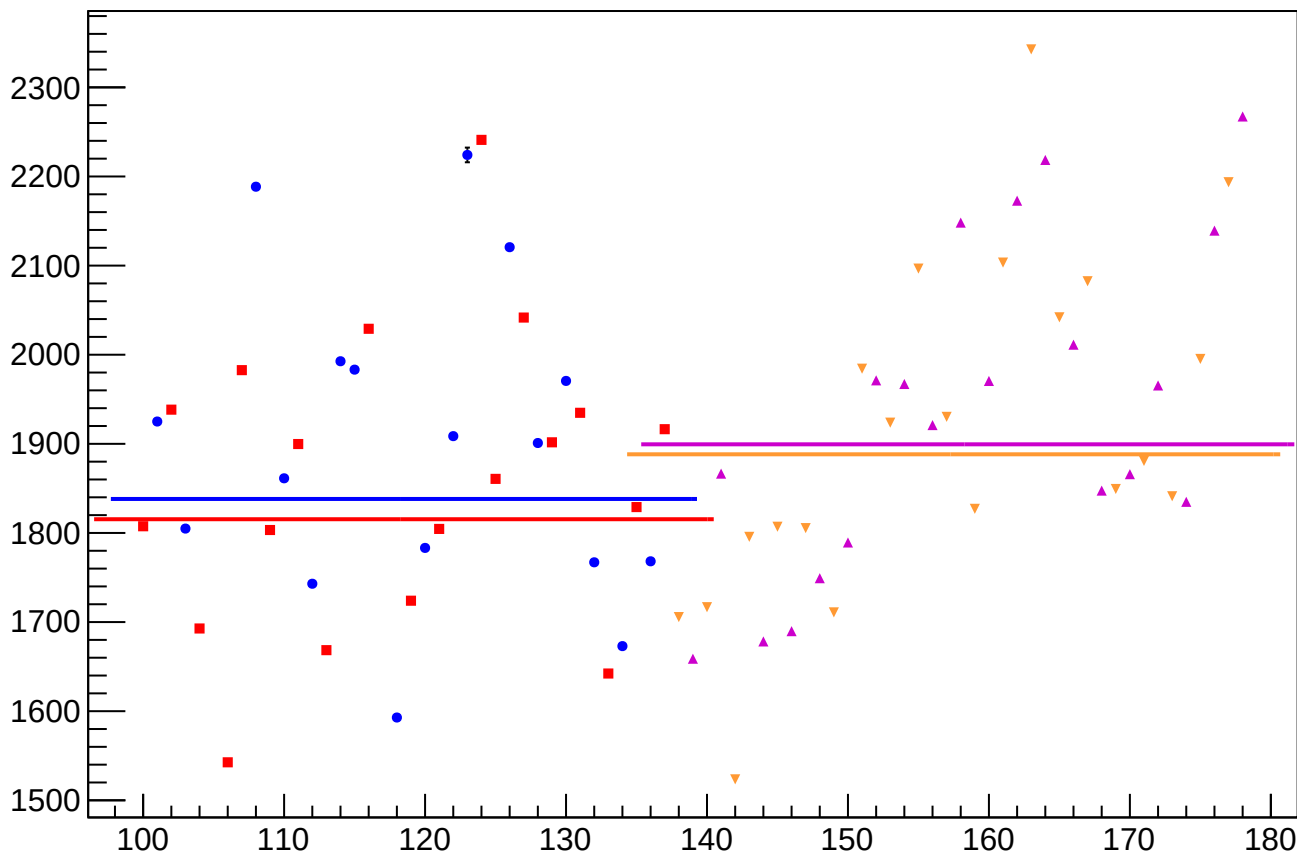
Right: 1.840 ± 0.492 χ^2/NDF : 321.6/35

In: 5.505 ± 0.402 χ^2/NDF : 515.7/36

Out: 8.663 ± 0.391 χ^2/NDF : 830.5/39

All: 7.126 ± 0.280 χ^2/NDF : 1377.9/76

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

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

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

Left In: 1899.456 $\pm$ 0.344 χ^2 /NDF: 246734.9/19

Left: 1893.744 $\pm$ 0.241 χ^2 /NDF: 508510.9/40

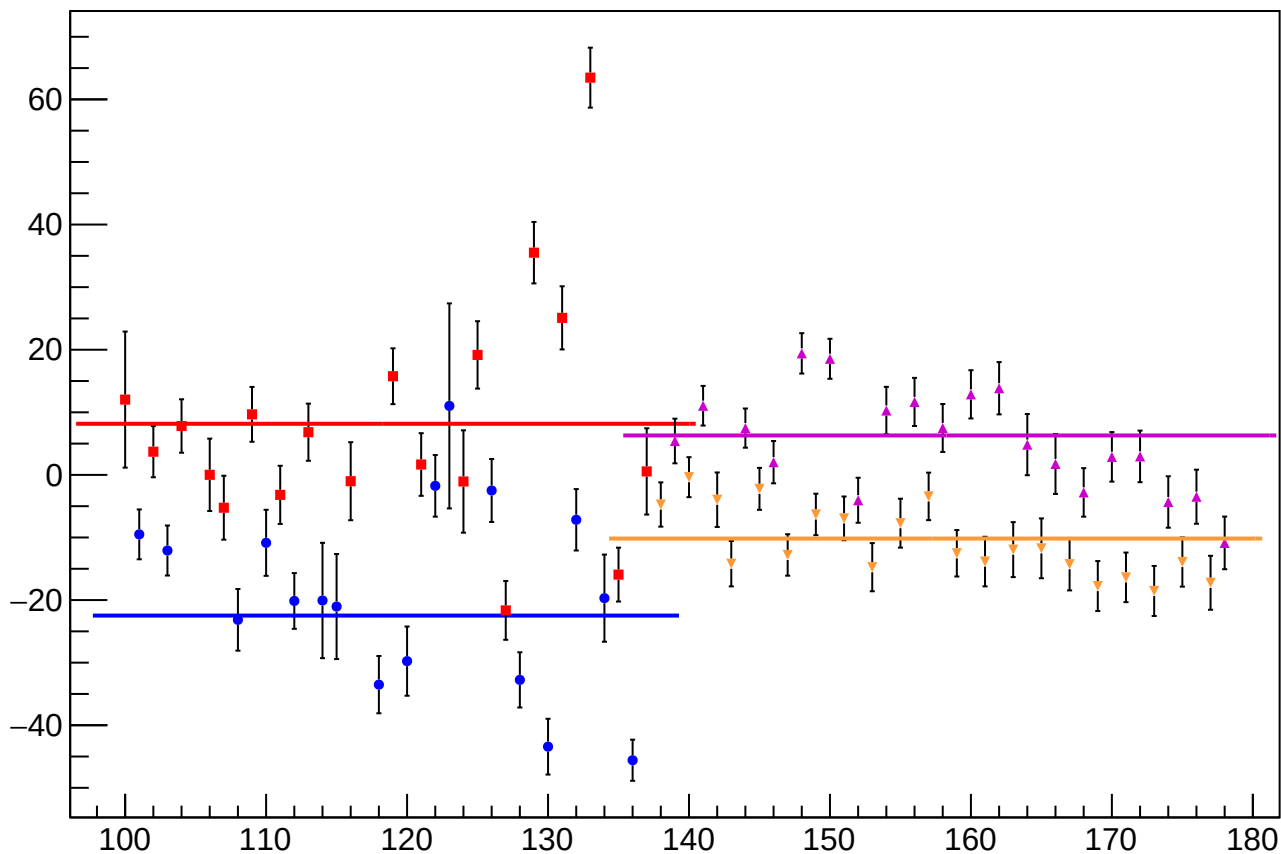
Right: 1826.303 $\pm$ 0.348 χ^2 /NDF: 171362.3/35

In: 1879.907 $\pm$ 0.284 χ^2 /NDF: 339737.8/36

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

All: 1871.913 $\pm$ 0.198 χ^2 /NDF: 705246.4/76

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

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

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

Left In: 6.302+/-0.841 χ^2/NDF : 89.3/19

Left: -2.062+/-0.590 χ^2/NDF : 329.0/40

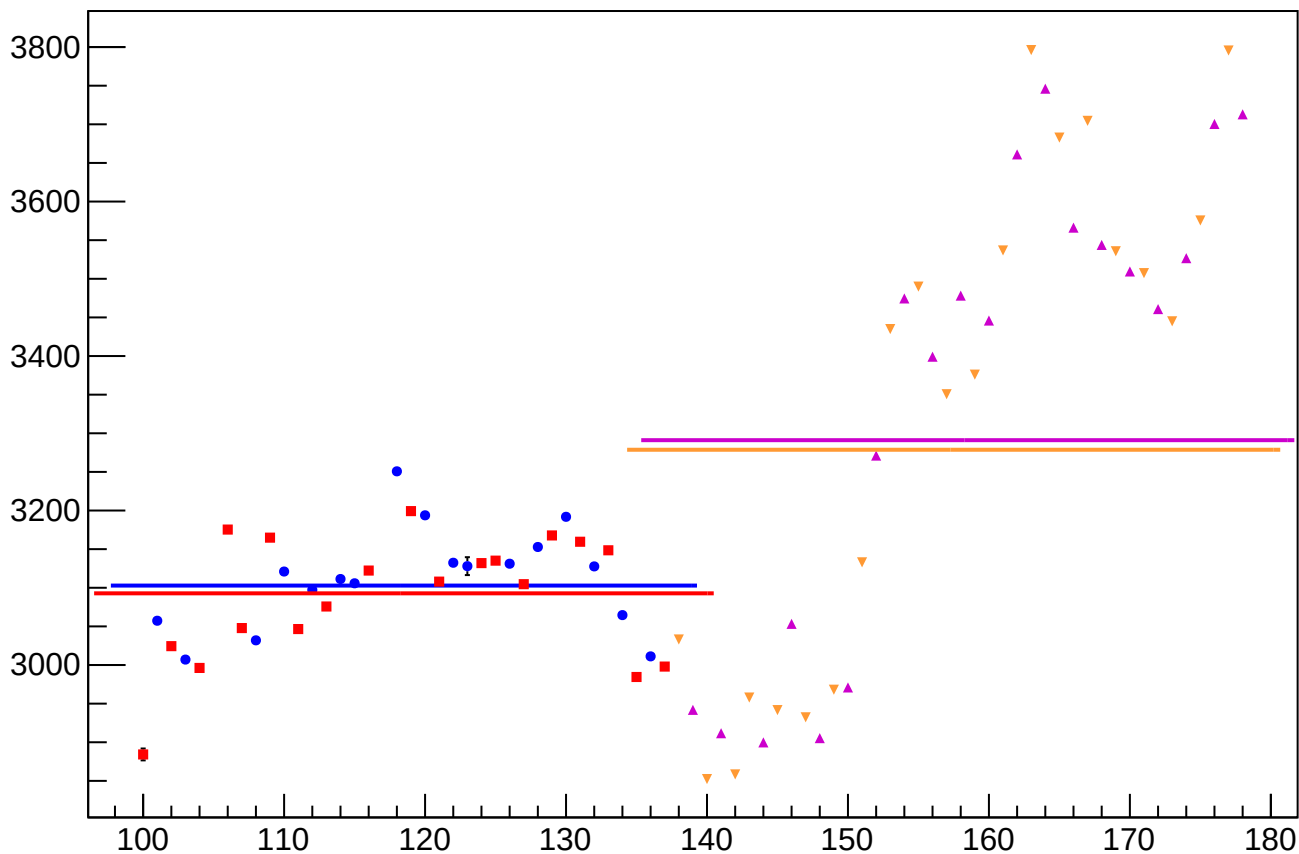
Right: -6.656+/-0.831 χ^2/NDF : 771.3/35

In: -3.235+/-0.688 χ^2/NDF : 632.0/36

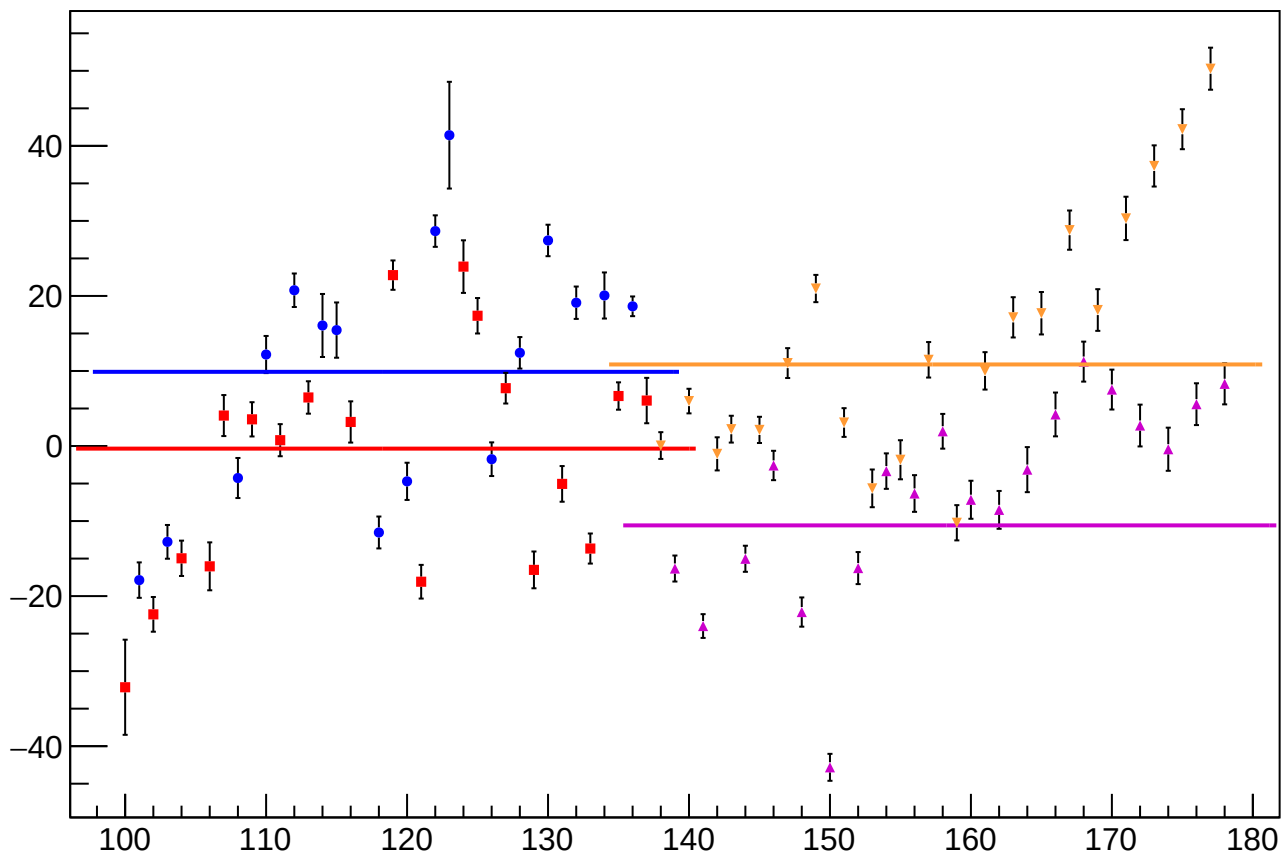
Out: -3.954+/-0.673 χ^2/NDF : 488.1/39

All: -3.602+/-0.481 χ^2/NDF : 1120.7/76

diff_bpm0l01X_rms vs Slug, Sign Corrected



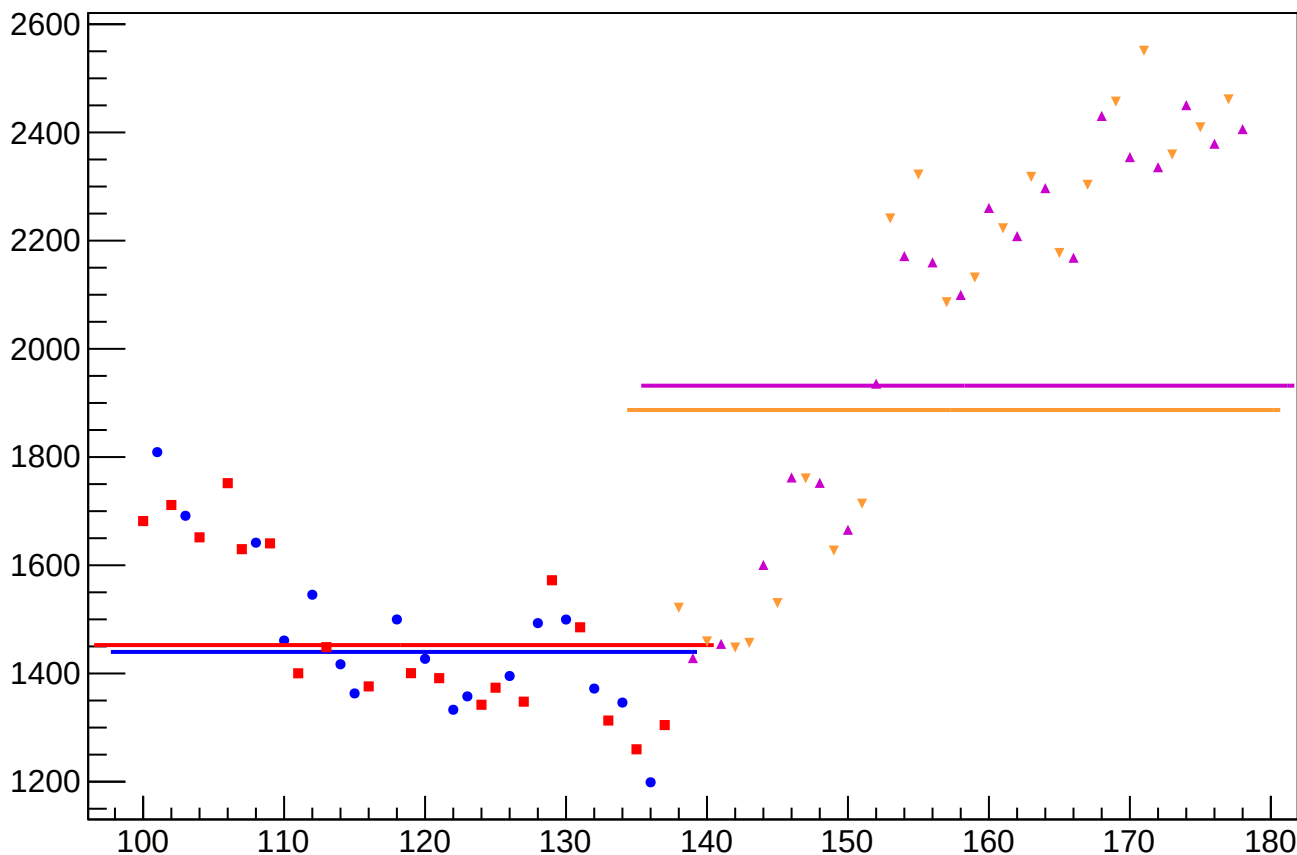
diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887 ± 0.559 $\chi^2/\text{NDF}: 703.6/16$
 Left Out: 10.871 ± 0.485 $\chi^2/\text{NDF}: 857.7/20$
 Right Out: -0.346 ± 0.547 $\chi^2/\text{NDF}: 628.9/18$
 Left In: -10.577 ± 0.501 $\chi^2/\text{NDF}: 776.5/19$

Left: 0.490 ± 0.349 $\chi^2/\text{NDF}: 2580.1/40$
 Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$
 In: -1.471 ± 0.373 $\chi^2/\text{NDF}: 2222.7/36$
 Out: 5.931 ± 0.363 $\chi^2/\text{NDF}: 1722.0/39$
 All: 2.333 ± 0.260 $\chi^2/\text{NDF}: 4146.9/76$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1887.012+/-0.343 χ^2/NDF : 1265185.1/20

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

Left In: 1931.926+/-0.354 χ^2/NDF : 986951.9/19

Left: 1908.751+/-0.246 χ^2/NDF : 2260432.7/40

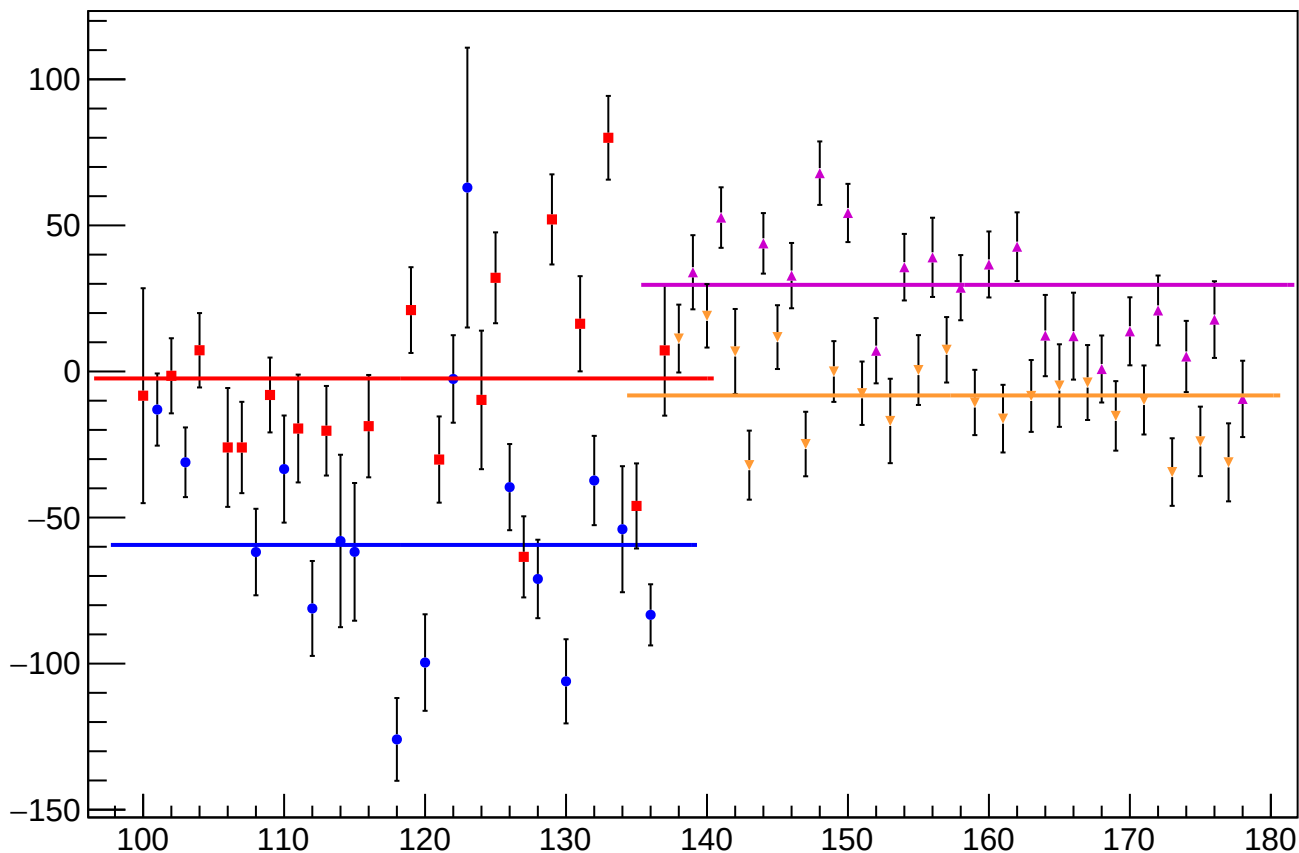
Right: 1446.283+/-0.277 χ^2/NDF : 311864.1/35

In: 1712.955+/-0.264 χ^2/NDF : 2018549.5/36

Out: 1695.620+/-0.257 χ^2/NDF : 2110350.6/39

All: 1704.046+/-0.184 χ^2/NDF : 4131117.6/76

diff_bpm0l02X_mean vs Slug, Sign Corrected



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

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

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

Left In: 29.649 $\pm$ 2.620 χ^2/NDF : 57.4/19

Left: 10.486 $\pm$ 1.841 χ^2/NDF : 197.3/40

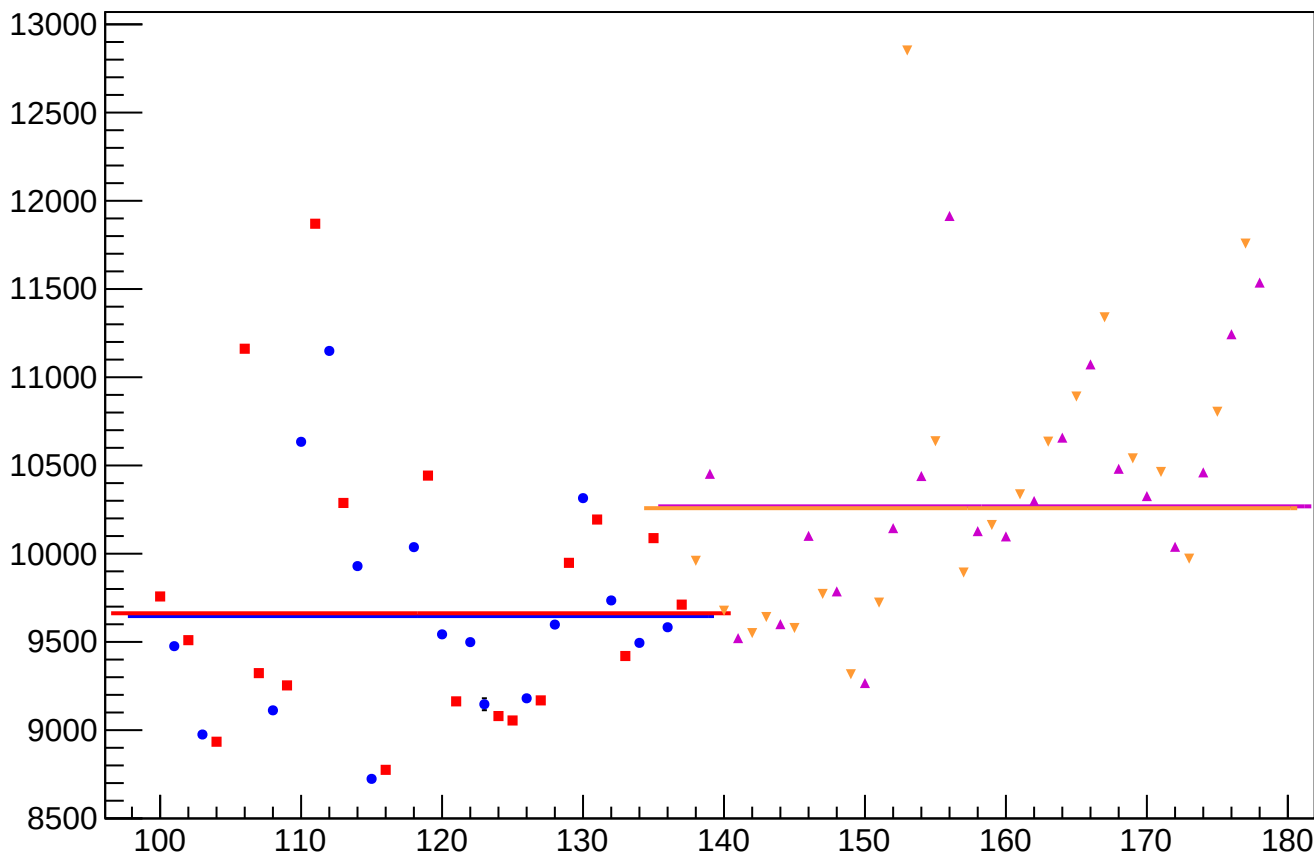
Right: -30.113 $\pm$ 2.601 χ^2/NDF : 306.8/35

In: 0.229 $\pm$ 2.144 χ^2/NDF : 531.9/36

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

All: -3.064 $\pm$ 1.503 χ^2/NDF : 666.4/76

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.480+/-2.637 χ^2/NDF : 44060.3/16

Left Out: 10257.919+/-1.829 χ^2/NDF : 171432.2/20

Right Out: 9662.363+/-2.567 χ^2/NDF : 77584.0/18

Left In: 10268.336+/-1.852 χ^2/NDF : 113913.1/19

Left: 10263.062+/-1.302 χ^2/NDF : 285361.3/40

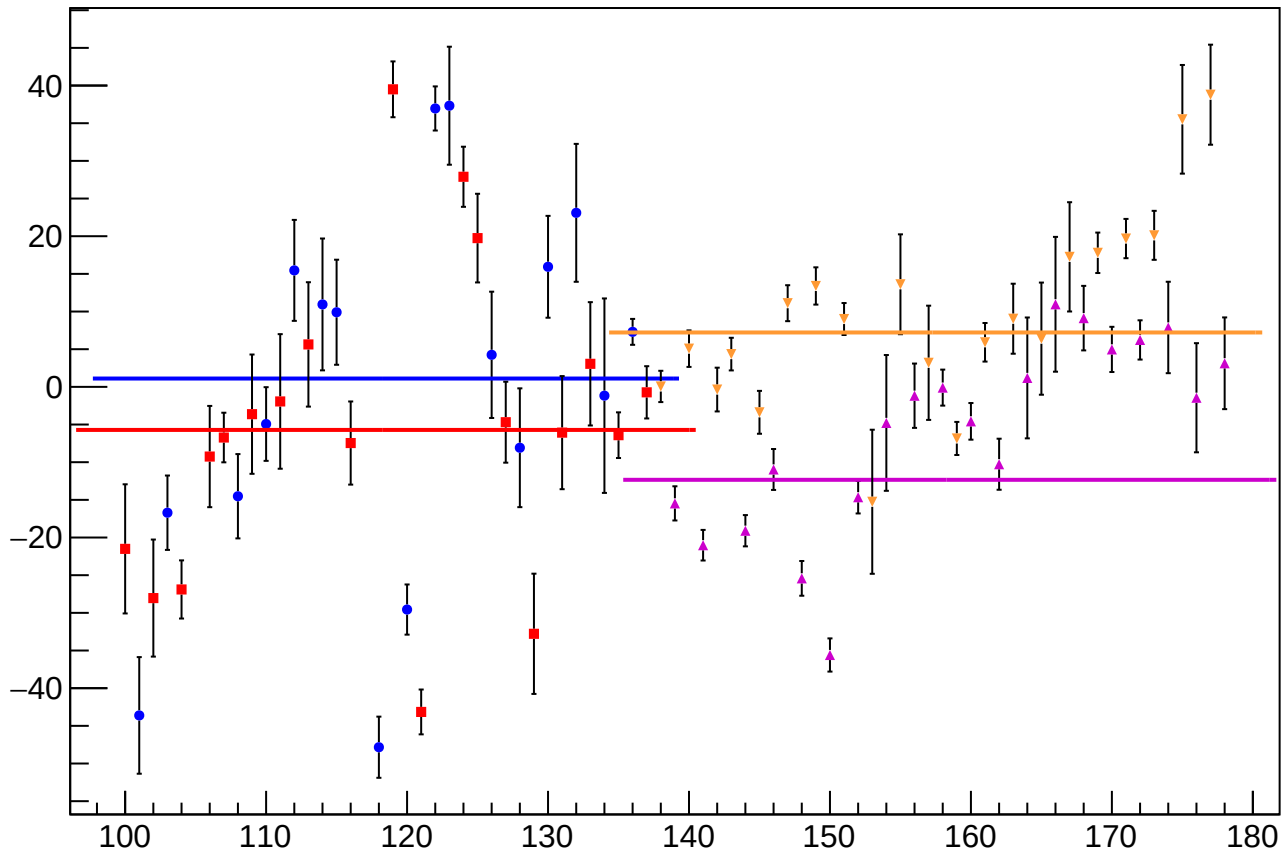
Right: 9654.635+/-1.839 χ^2/NDF : 121662.9/35

In: 10062.825+/-1.516 χ^2/NDF : 195215.0/36

Out: 10057.279+/-1.490 χ^2/NDF : 284720.7/39

All: 10060.004+/-1.062 χ^2/NDF : 479942.5/76

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 $\pm$ 1.066 χ^2/NDF : 489.7/16

Left Out: 7.221 $\pm$ 0.654 χ^2/NDF :186.9/20

Right Out: -5.716 $\pm$ -1.091 χ^2/NDF : 456.0/18

Left In: -12.338 $\pm$ -0.656 χ^2/NDF :358.8/19

Left: -2.541 $\pm$ -0.463 χ^2/NDF : 991.4/40

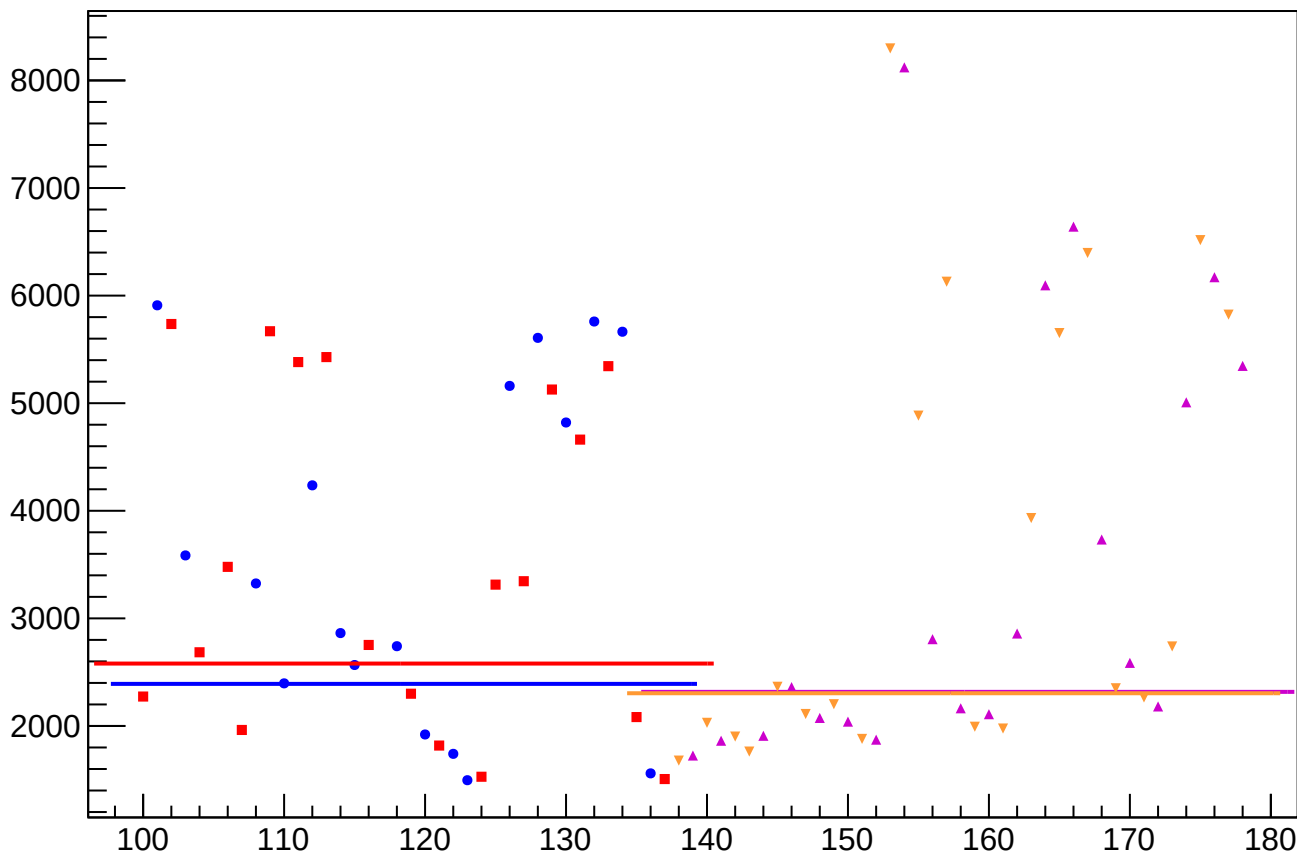
Right: -2.227 $\pm$ -0.763 χ^2/NDF : 965.6/35

In: -8.651 $\pm$ -0.559 χ^2/NDF :963.8/36

Out: 3.798 $\pm$ -0.561 χ^2/NDF :746.3/39

All: -2.457 $\pm$ -0.396 χ^2/NDF : 1957.2/76

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 2316.939 $\pm$ 0.464 χ^2 /NDF: 3987854.9/19

Left: 2310.495 $\pm$ 0.328 χ^2 /NDF: 8694403.6/40

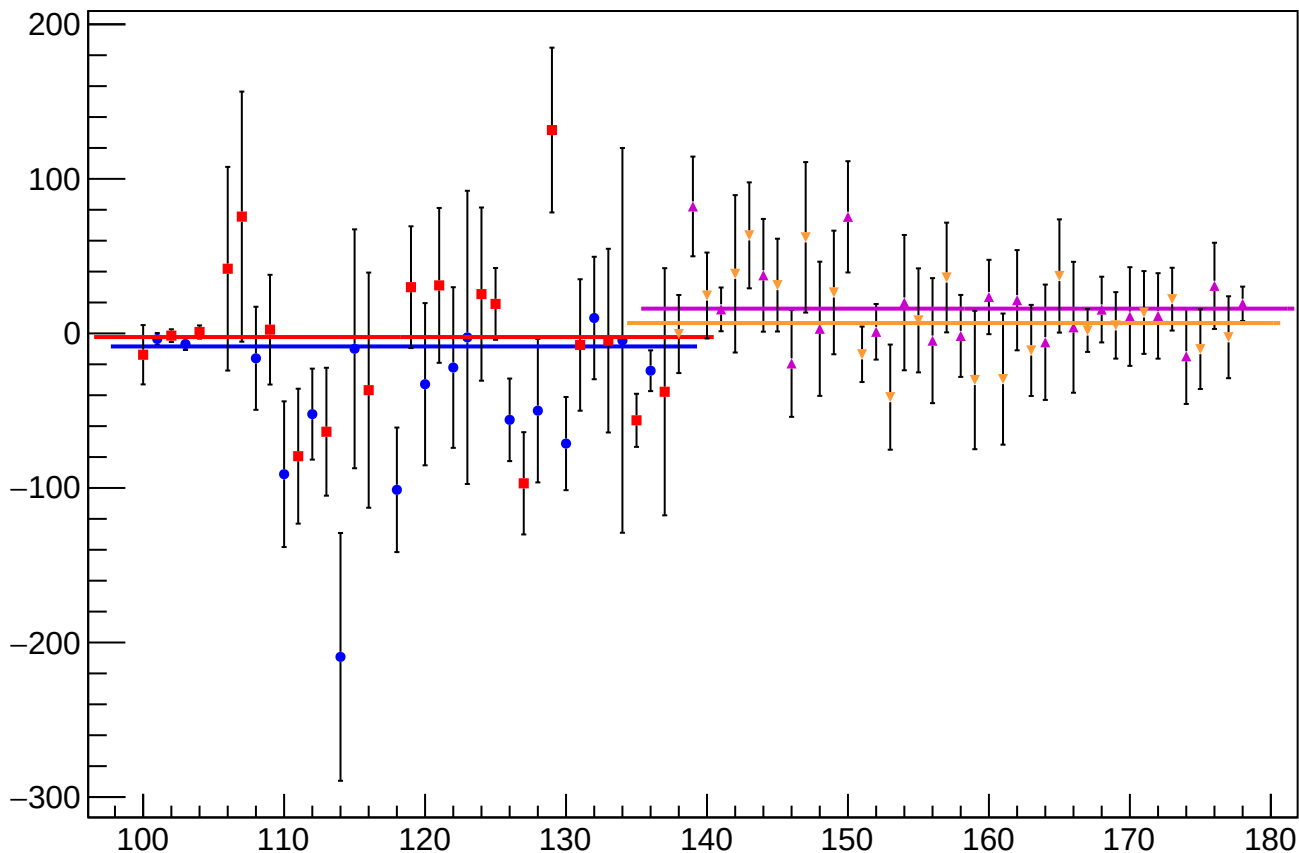
Right: 2483.443 $\pm$ 0.539 χ^2 /NDF: 4996468.7/35

In: 2337.297 $\pm$ 0.395 χ^2 /NDF: 6595432.7/36

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

All: 2357.097 $\pm$ 0.280 χ^2 /NDF: 13766006.0/79

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 6.716 ± 5.878 $\chi^2/\text{NDF}: 13.6/20$

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

Left In: 16.023 ± 5.474 $\chi^2/\text{NDF}: 11.8/19$

Left: 11.699 ± 4.006 $\chi^2/\text{NDF}: 26.7/40$

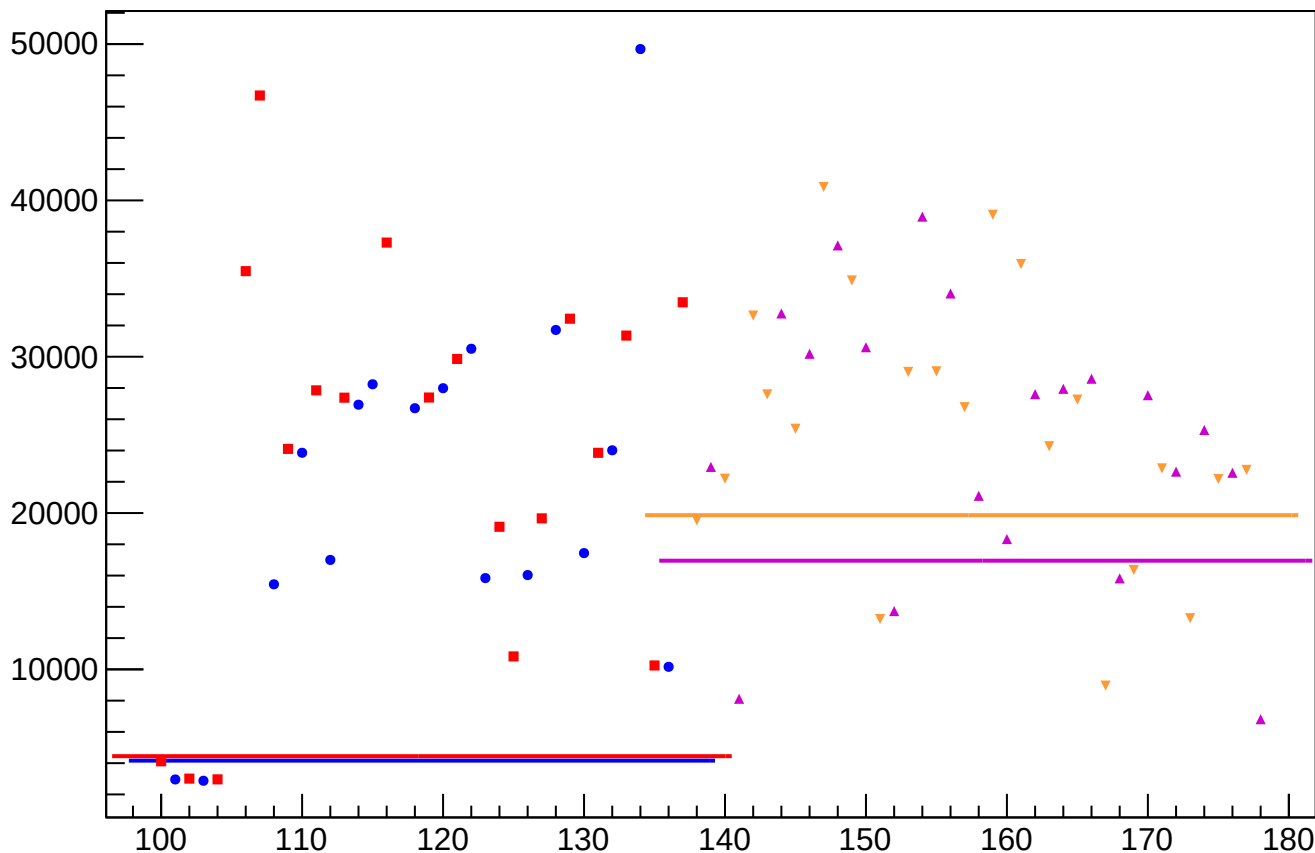
Right: -5.615 ± 1.896 $\chi^2/\text{NDF}: 66.1/35$

In: -3.965 ± 2.339 $\chi^2/\text{NDF}: 57.0/36$

Out: -0.685 ± 2.518 $\chi^2/\text{NDF}: 50.2/39$

All: -2.446 ± 1.714 $\chi^2/\text{NDF}: 108.1/76$

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

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

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

Left In: 16952.272 $\pm$ 3.871 χ^2/NDF : 5961335.5/19

Left: 18304.931 $\pm$ 2.833 χ^2/NDF : 10176703.7/40

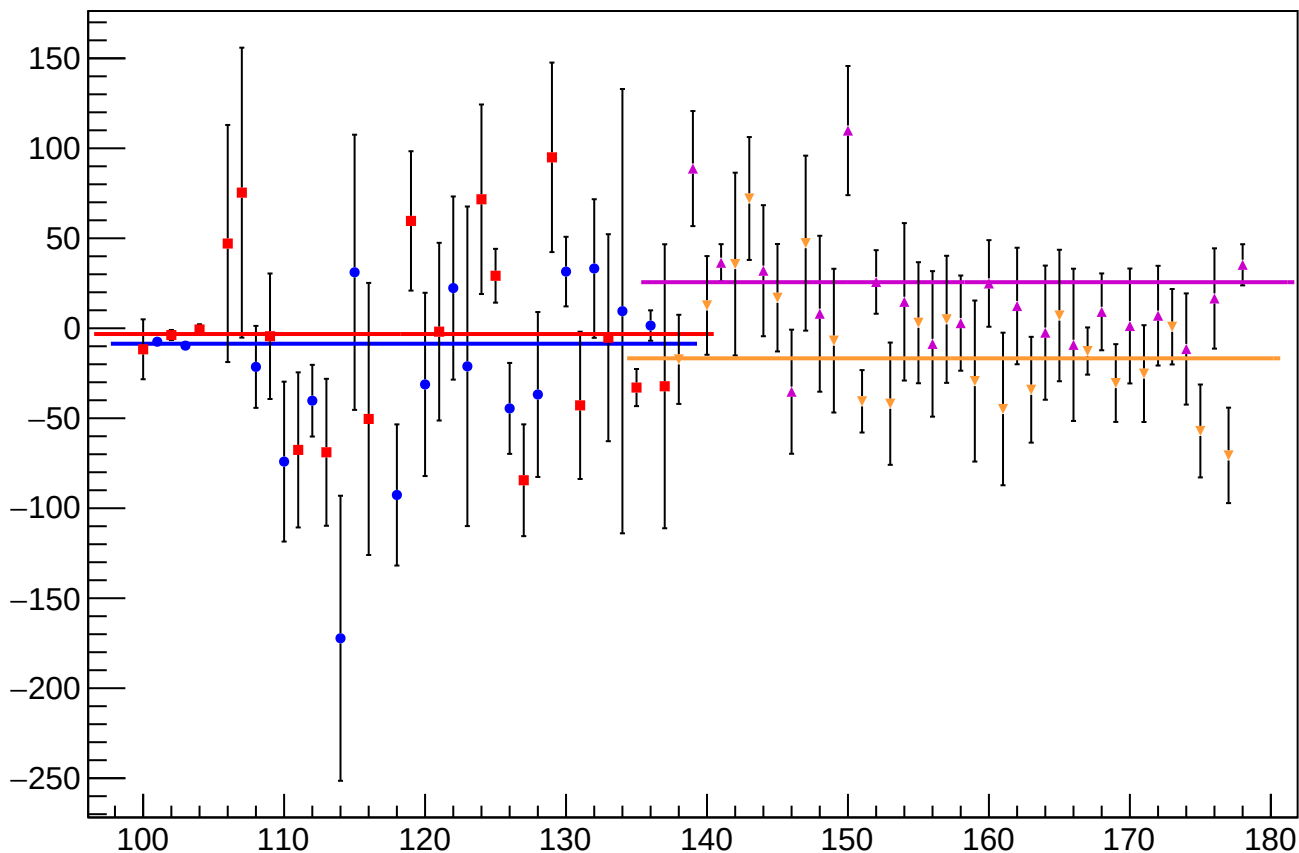
Right: 4294.168 $\pm$ 1.341 χ^2/NDF : 13428219.0/35

In: 6497.724 $\pm$ 1.654 χ^2/NDF : 20874724.8/36

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

All: 6858.603 $\pm$ 1.212 χ^2/NDF : 43591173.8/77

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.586 ± 1.778 $\chi^2/\text{NDF}: 24.4/16$

Left Out: -16.696 ± 5.797 $\chi^2/\text{NDF}: 24.4/20$

Right Out: -3.194 ± 1.922 $\chi^2/\text{NDF}: 36.9/18$

Left In: 25.607 ± 5.165 $\chi^2/\text{NDF}: 20.6/19$

Left: 6.885 ± 3.856 $\chi^2/\text{NDF}: 74.7/40$

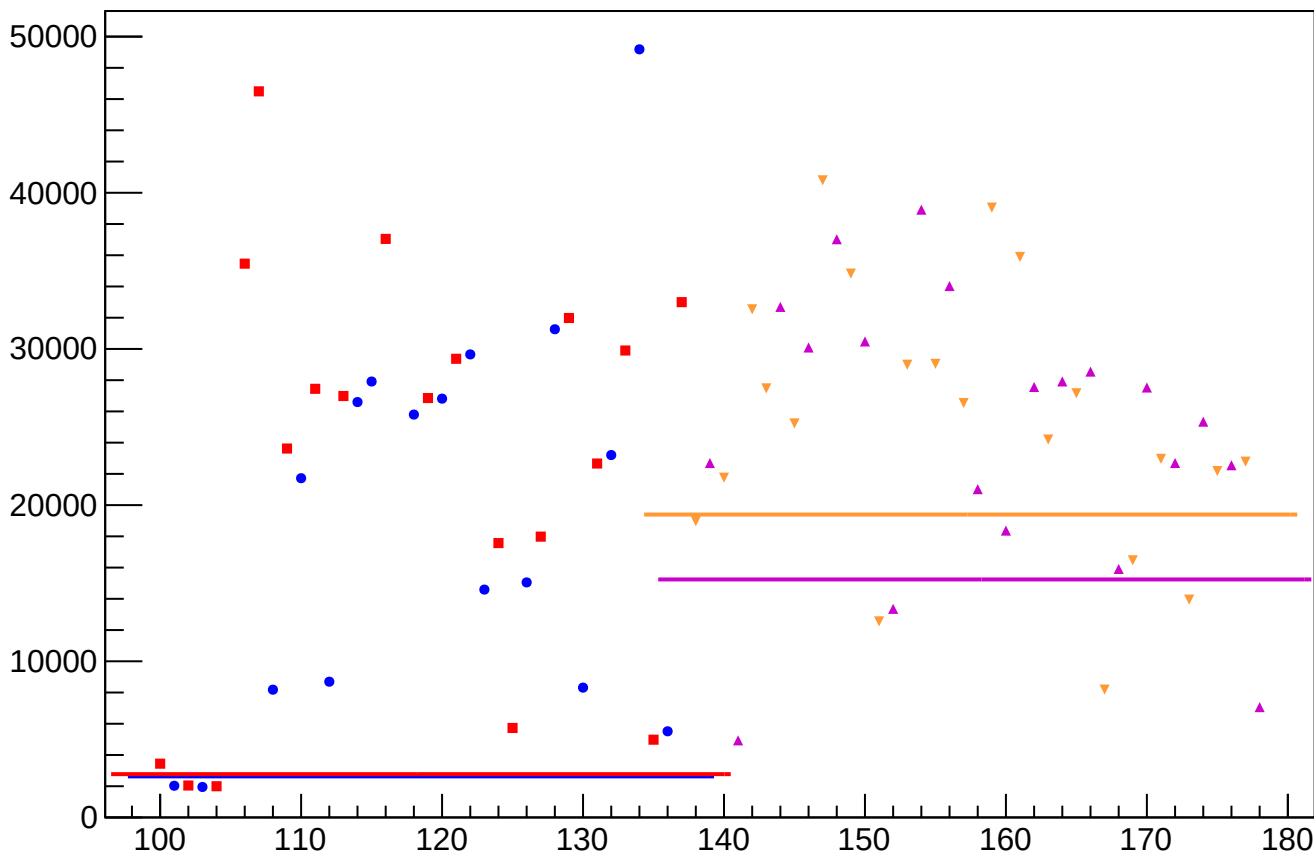
Right: -6.100 ± 1.305 $\chi^2/\text{NDF}: 65.5/35$

In: -4.965 ± 1.681 $\chi^2/\text{NDF}: 84.2/36$

Out: -4.532 ± 1.825 $\chi^2/\text{NDF}: 66.2/39$

All: -4.766 ± 1.236 $\chi^2/\text{NDF}: 150.4/76$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19396.285 ± 4.099 $\chi^2/\text{NDF}: 4298496.2/20$

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

Left In: 15240.518 ± 3.652 $\chi^2/\text{NDF}: 7510188.6/19$

Left: 17079.735 ± 2.727 $\chi^2/\text{NDF}: 12381705.8/40$

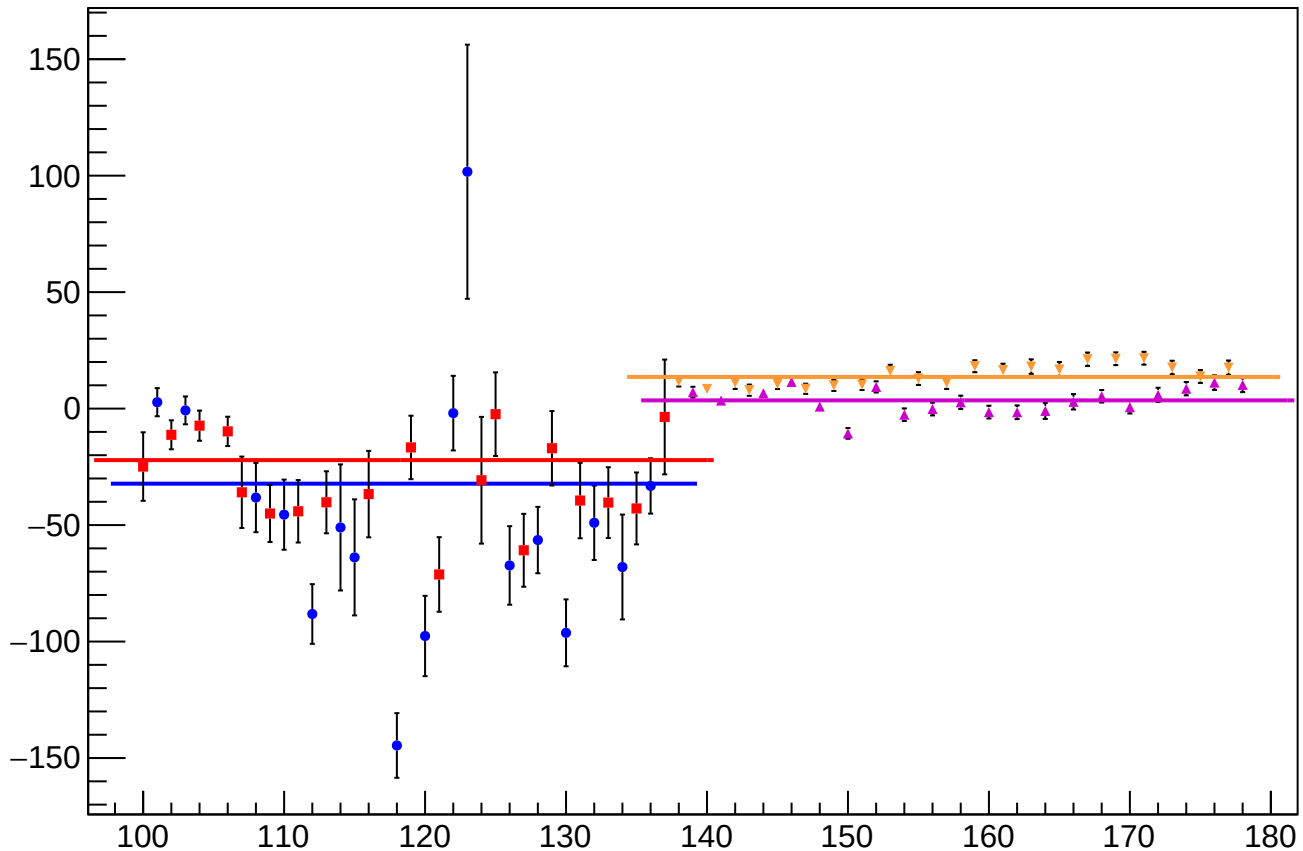
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

In: 3966.189 ± 1.189 $\chi^2/\text{NDF}: 23757555.1/36$

Out: 4420.307 ± 1.290 $\chi^2/\text{NDF}: 26951984.7/39$

All: 4174.681 ± 0.874 $\chi^2/\text{NDF}: 50776554.4/7$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

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

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

Left In: 3.534 ± 0.580 χ^2/NDF : 94.9/19

Left: 8.685 ± 0.405 χ^2/NDF : 309.6/40

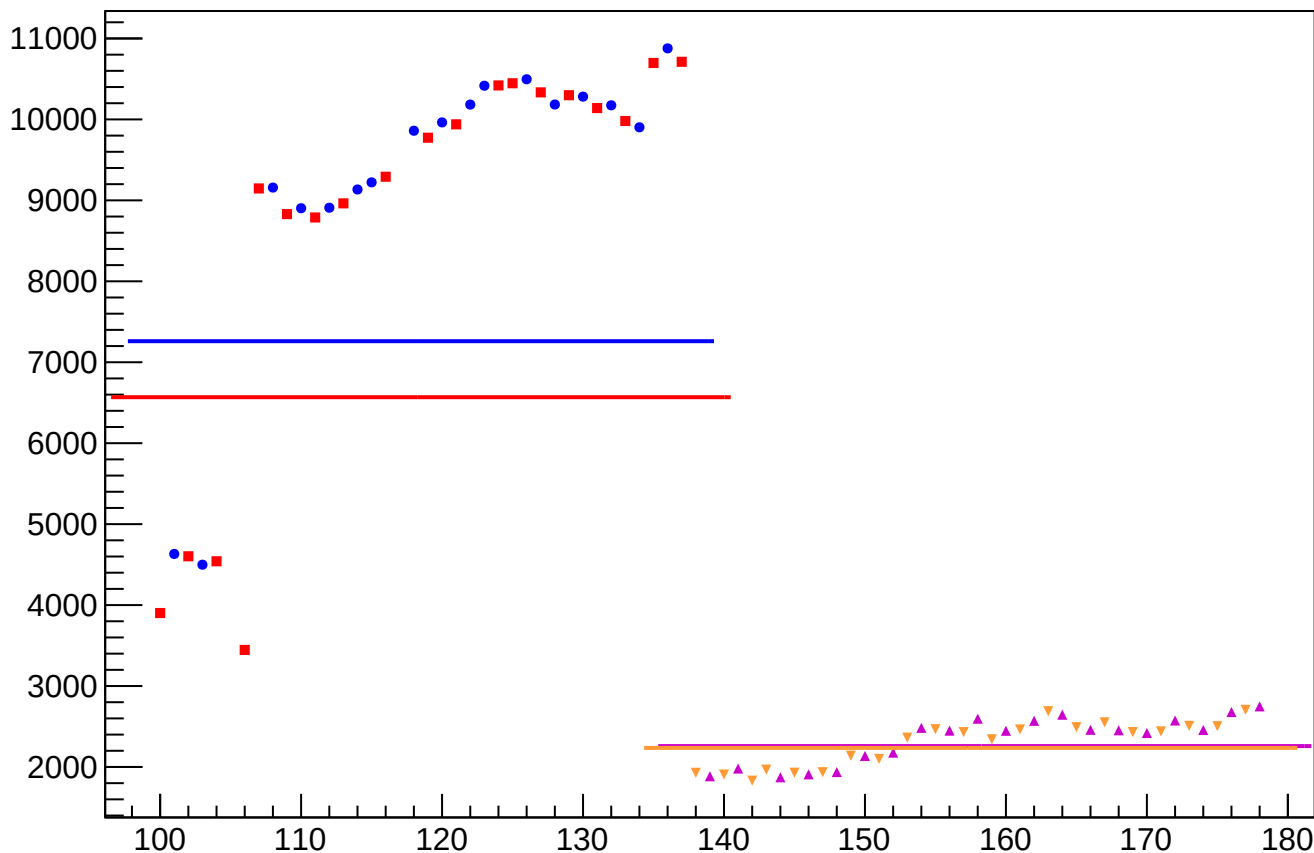
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 2.230 ± 0.569 χ^2/NDF : 437.2/36

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

All: 7.278 ± 0.397 χ^2/NDF : 865.8/76

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

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

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

Left In: 2258.069+/-0.410 χ^2/NDF : 516306.3/19

Left: 2246.649+/-0.287 χ^2/NDF : 984972.7/40

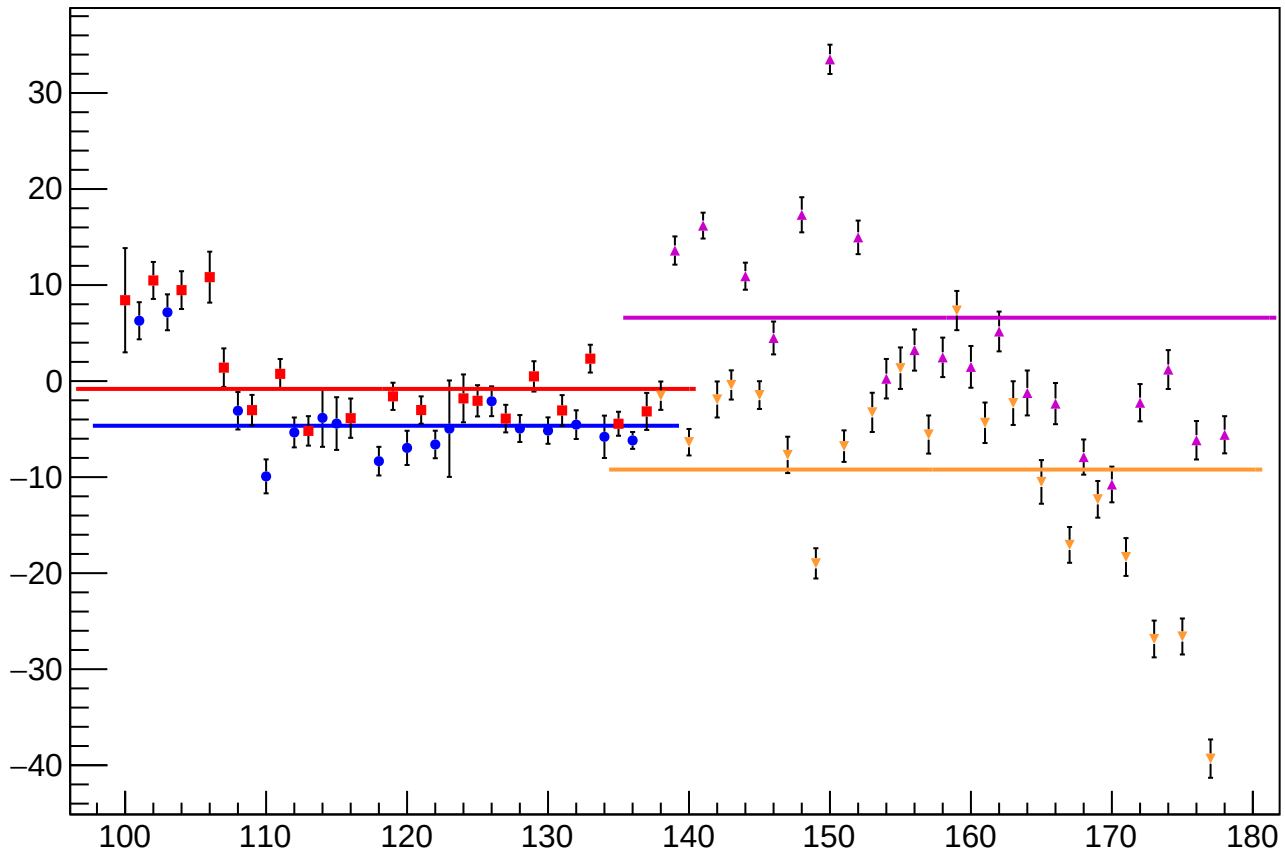
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

In: 2440.410+/-0.403 χ^2/NDF : 7577083.8/36

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

All: 2431.208+/-0.281 χ^2/NDF : 15283325.6/77

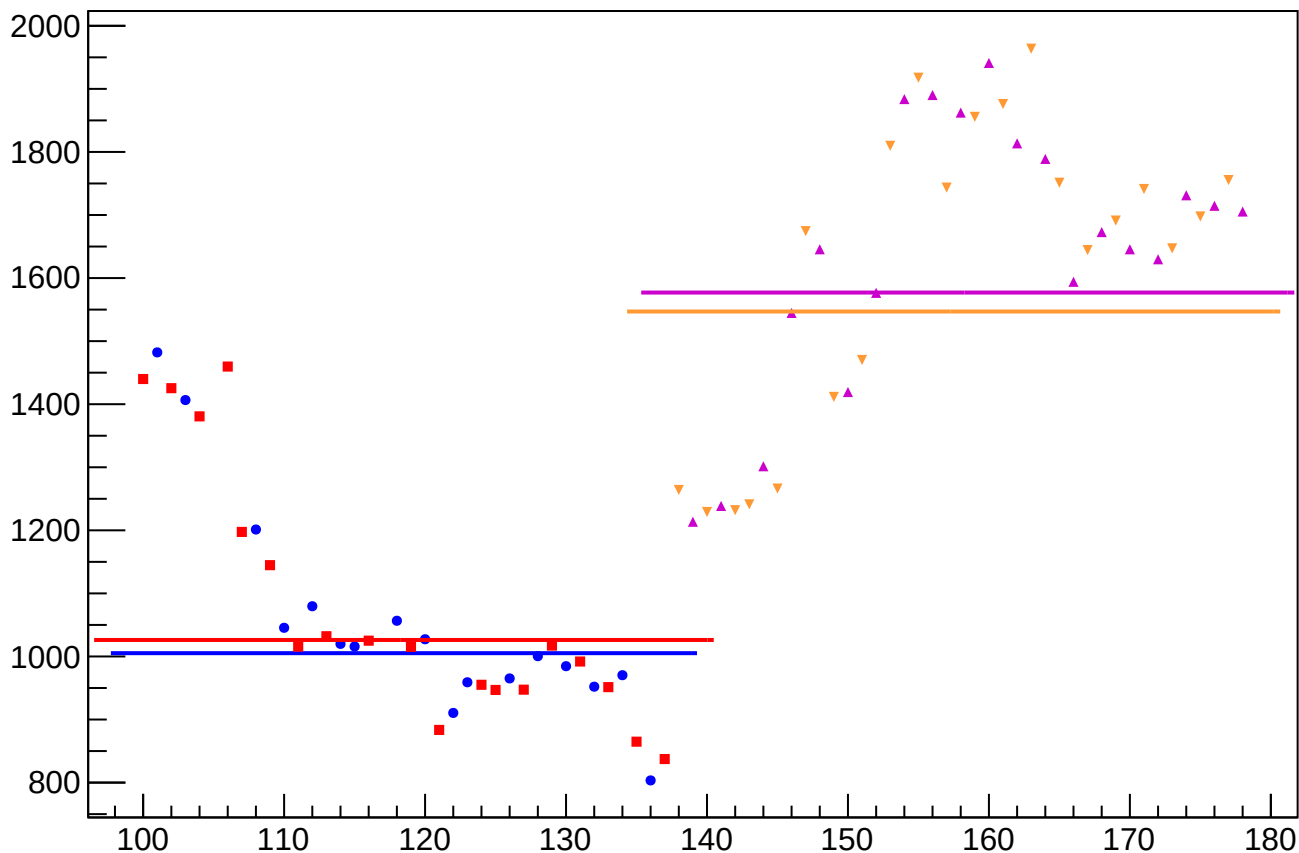
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -9.213 ± 0.395 $\chi^2/\text{NDF}: 706.6/20$
 Right Out: -0.814 ± 0.388 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 6.600 ± 0.406 $\chi^2/\text{NDF}: 760.8/19$

Left: -1.534 ± 0.283 $\chi^2/\text{NDF}: 2246.9/40$
 Right: -2.712 ± 0.276 $\chi^2/\text{NDF}: 269.5/35$
 In: 0.783 ± 0.282 $\chi^2/\text{NDF}: 1254.9/36$
 Out: -4.948 ± 0.277 $\chi^2/\text{NDF}: 1060.3/39$
 All: -2.138 ± 0.198 $\chi^2/\text{NDF}: 2525.3/76$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1546.976 ± 0.279 $\chi^2/\text{NDF}: 786188.4/20$

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

Left In: 1577.037 ± 0.287 $\chi^2/\text{NDF}: 613238.2/19$

Left: 1561.574 ± 0.200 $\chi^2/\text{NDF}: 1405060.9/40$

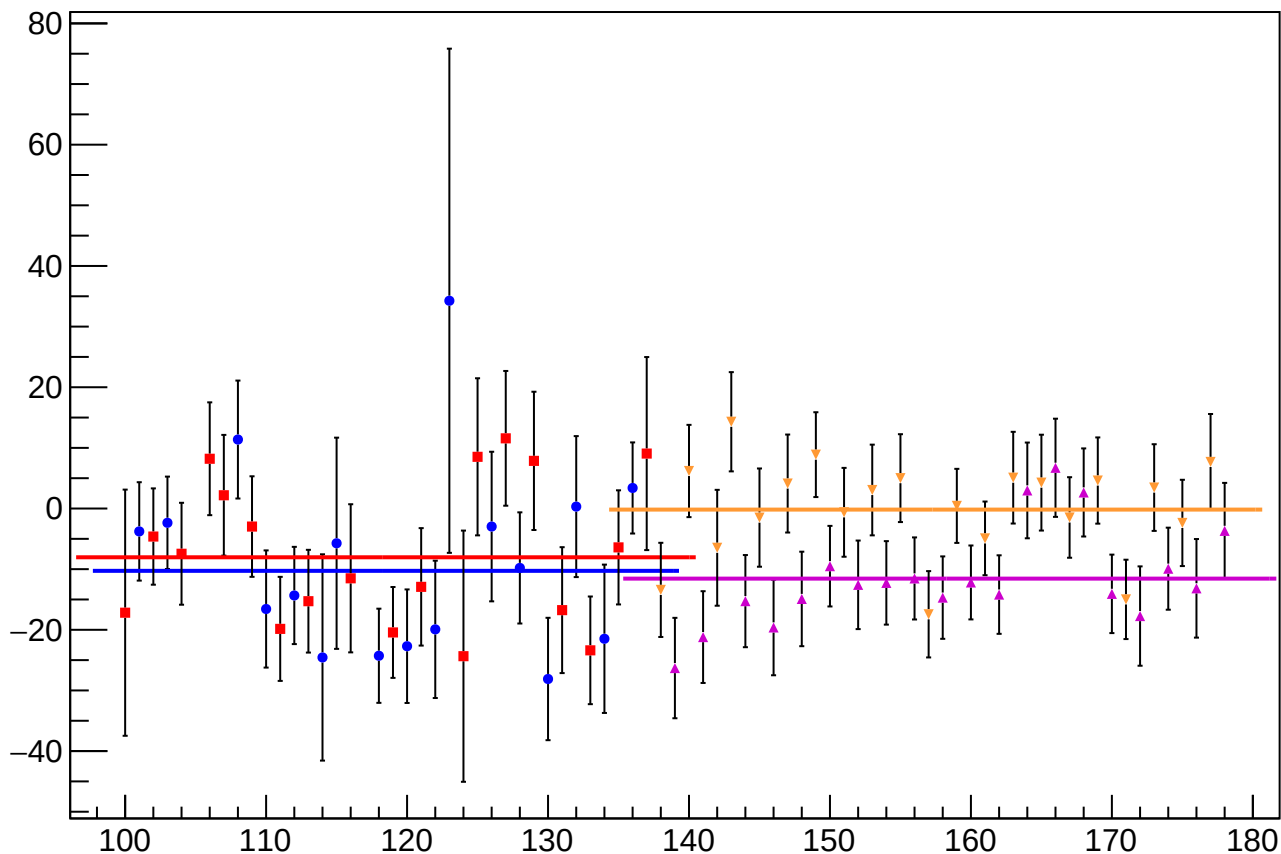
Right: 1015.803 ± 0.195 $\chi^2/\text{NDF}: 697945.4/35$

In: 1281.415 ± 0.200 $\chi^2/\text{NDF}: 3024119.4/36$

Out: 1282.458 ± 0.196 $\chi^2/\text{NDF}: 2888118.3/39$

All: 1281.946 ± 0.140 $\chi^2/\text{NDF}: 5912251.7/76$

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.177 ± 1.592 χ^2/NDF : 24.1/20

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

Left In: -11.560 ± 1.621 χ^2/NDF : 20.9/19

Left: -5.766 ± 1.136 χ^2/NDF : 70.1/40

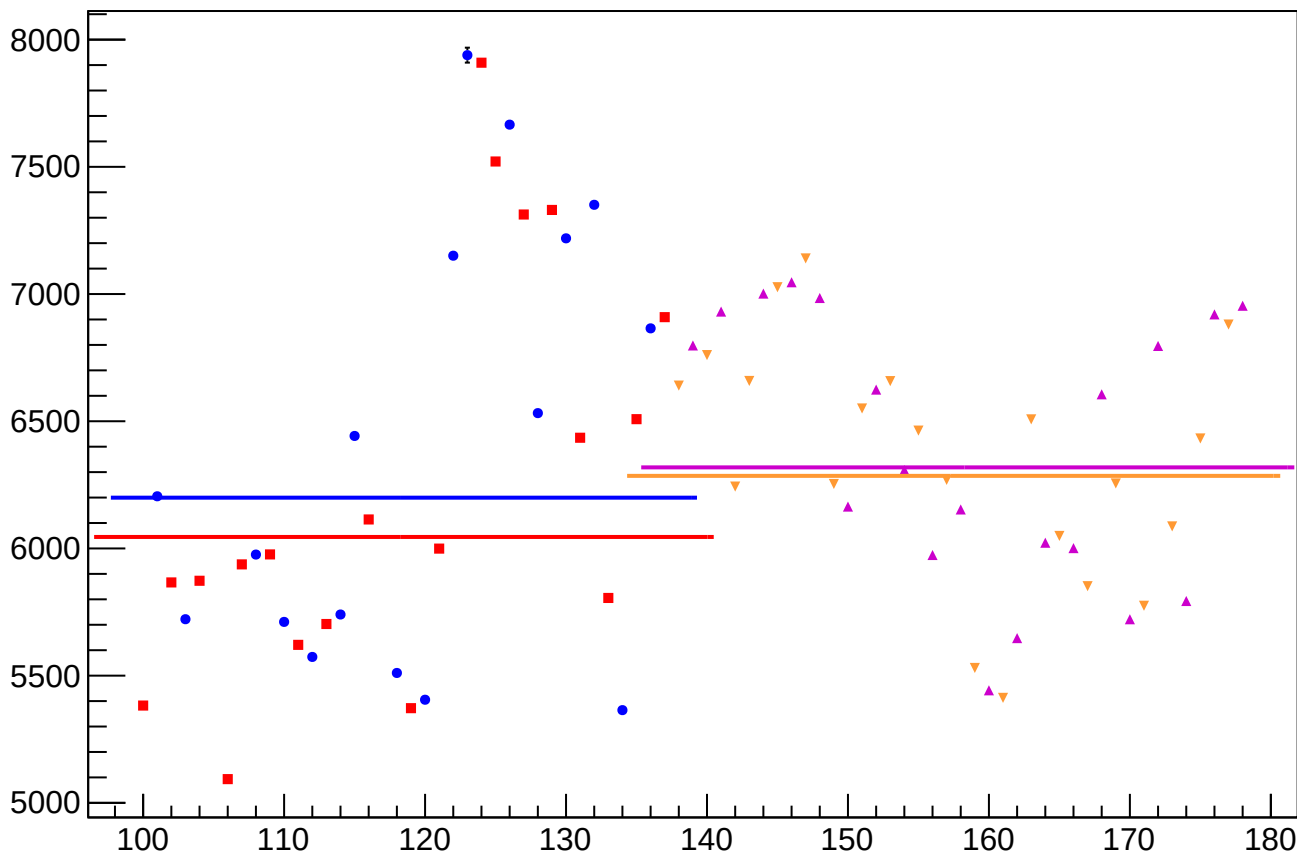
Right: -9.097 ± 1.655 χ^2/NDF : 46.7/35

In: -11.160 ± 1.344 χ^2/NDF : 44.6/36

Out: -2.756 ± 1.305 χ^2/NDF : 54.9/39

All: -6.833 ± 0.936 χ^2/NDF : 119.6/76

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

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

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

Left In: 6318.654 $\pm$ 1.146 χ^2 /NDF:210113.0/19

Left: 6301.684 $\pm$ 0.803 χ^2 /NDF: 384501.2/40

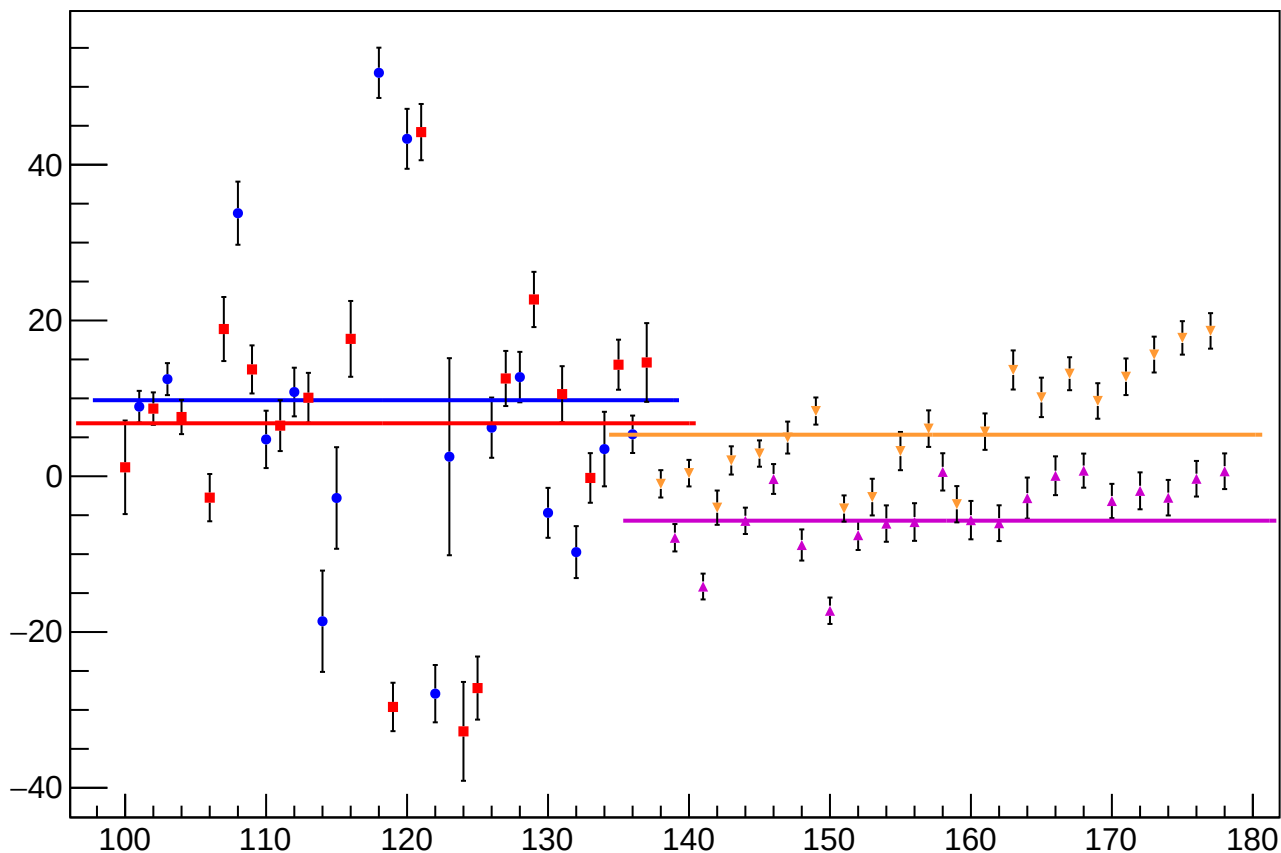
Right: 6118.133 $\pm$ 1.170 χ^2 /NDF: 334424.9/35

In: 6281.539 $\pm$ 0.951 χ^2 /NDF:385237.5/36

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

All: 6242.920 $\pm$ 0.662 χ^2 /NDF: 735652.0/76

diff_bpm0l05Y_mean vs Slug, Sign Corrected



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

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

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

Left In: -5.703 ± 0.469 $\chi^2/\text{NDF}: 126.2/19$

Left: 0.003 ± 0.326 $\chi^2/\text{NDF}: 648.2/40$

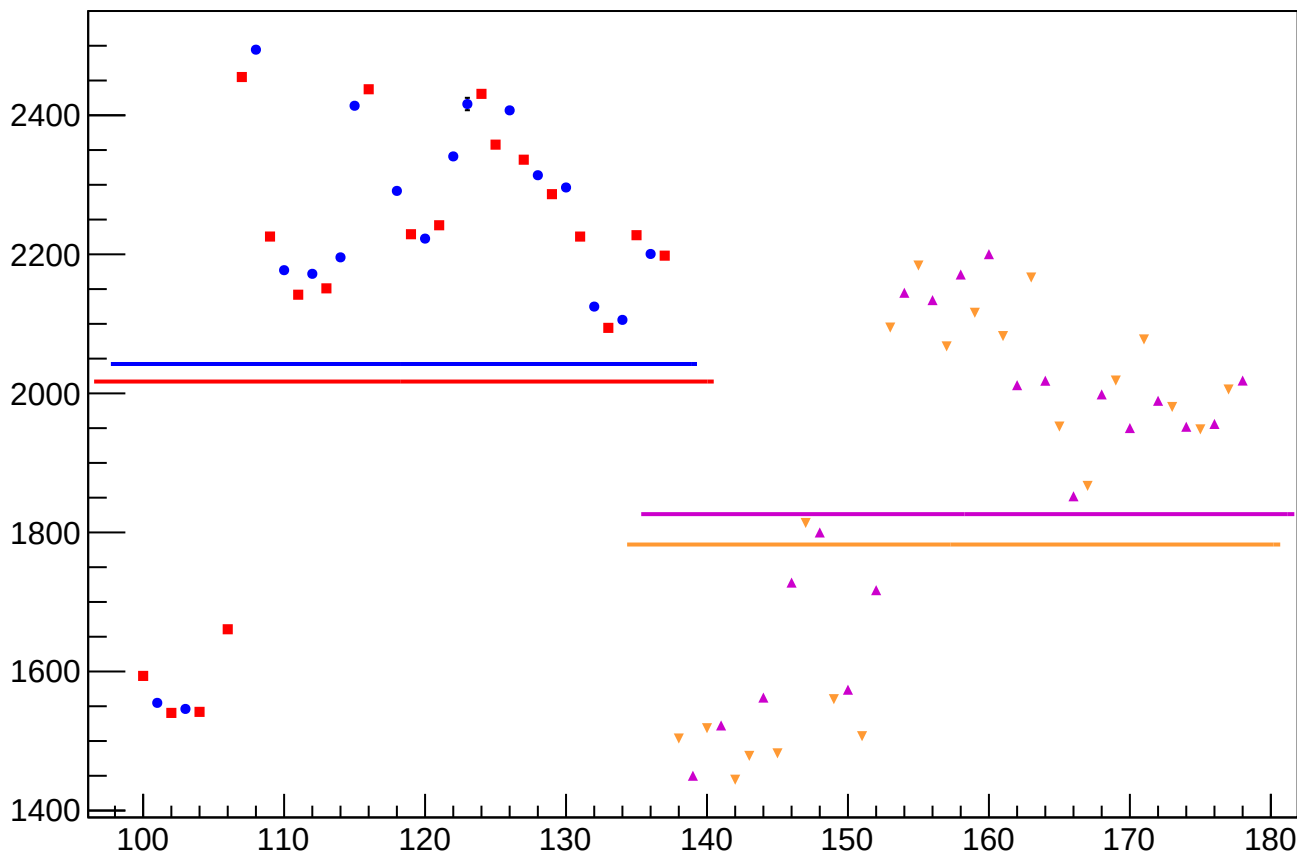
Right: 8.222 ± 0.552 $\chi^2/\text{NDF}: 902.8/35$

In: -1.718 ± 0.404 $\chi^2/\text{NDF}: 879.6/36$

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

All: 2.132 ± 0.281 $\chi^2/\text{NDF}: 1715.4/76$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 1826.322 $\pm$ 0.332 χ^2/NDF : 499695.0/19

Left: 1803.733 $\pm$ 0.231 χ^2/NDF : 1210232.3/40

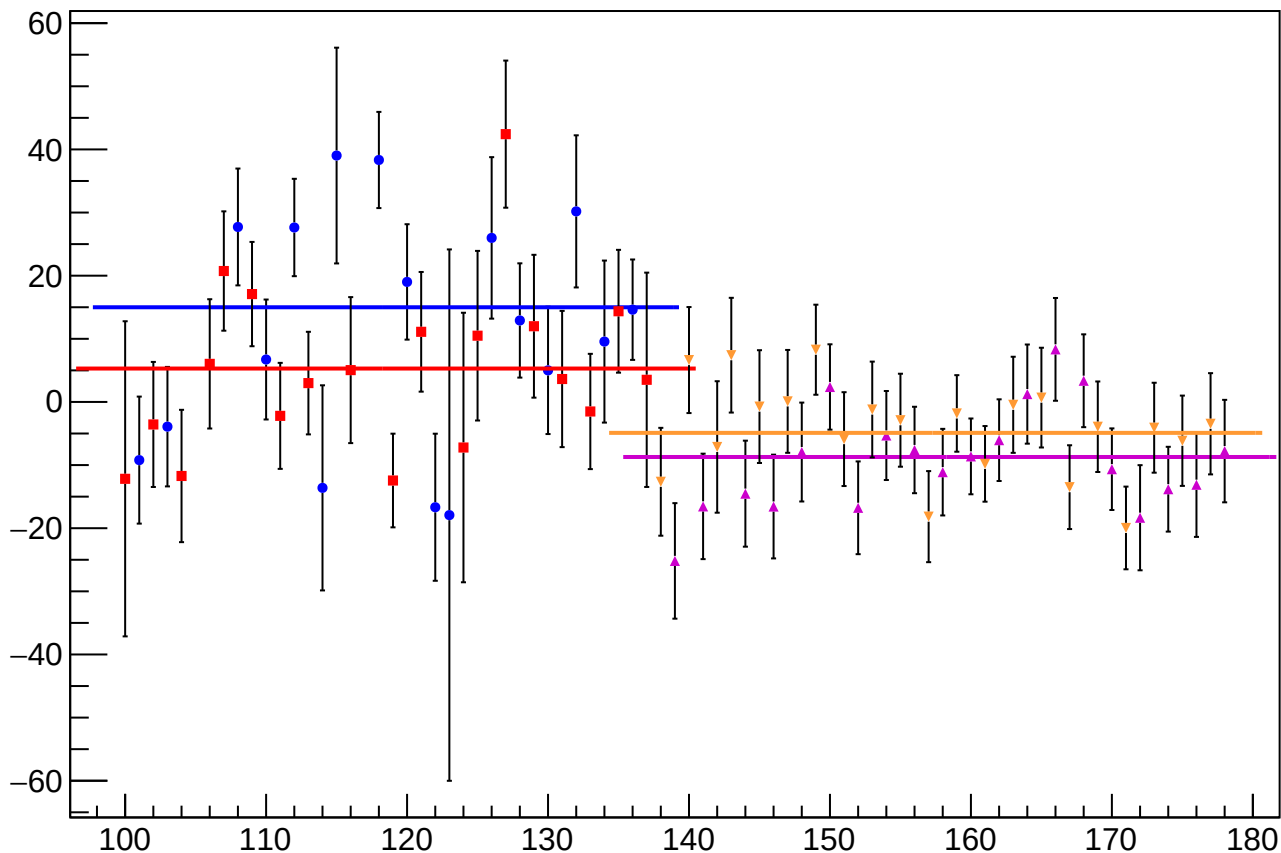
Right: 2029.129 $\pm$ 0.390 χ^2/NDF : 733495.1/35

In: 1881.964 $\pm$ 0.286 χ^2/NDF : 965552.3/36

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

All: 1862.138 $\pm$ 0.199 χ^2/NDF : 2190994.7/76

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

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

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

Left In: -8.719 ± 1.652 $\chi^2/\text{NDF}: 20.9/19$

Left: -6.778 ± 1.159 $\chi^2/\text{NDF}: 44.8/40$

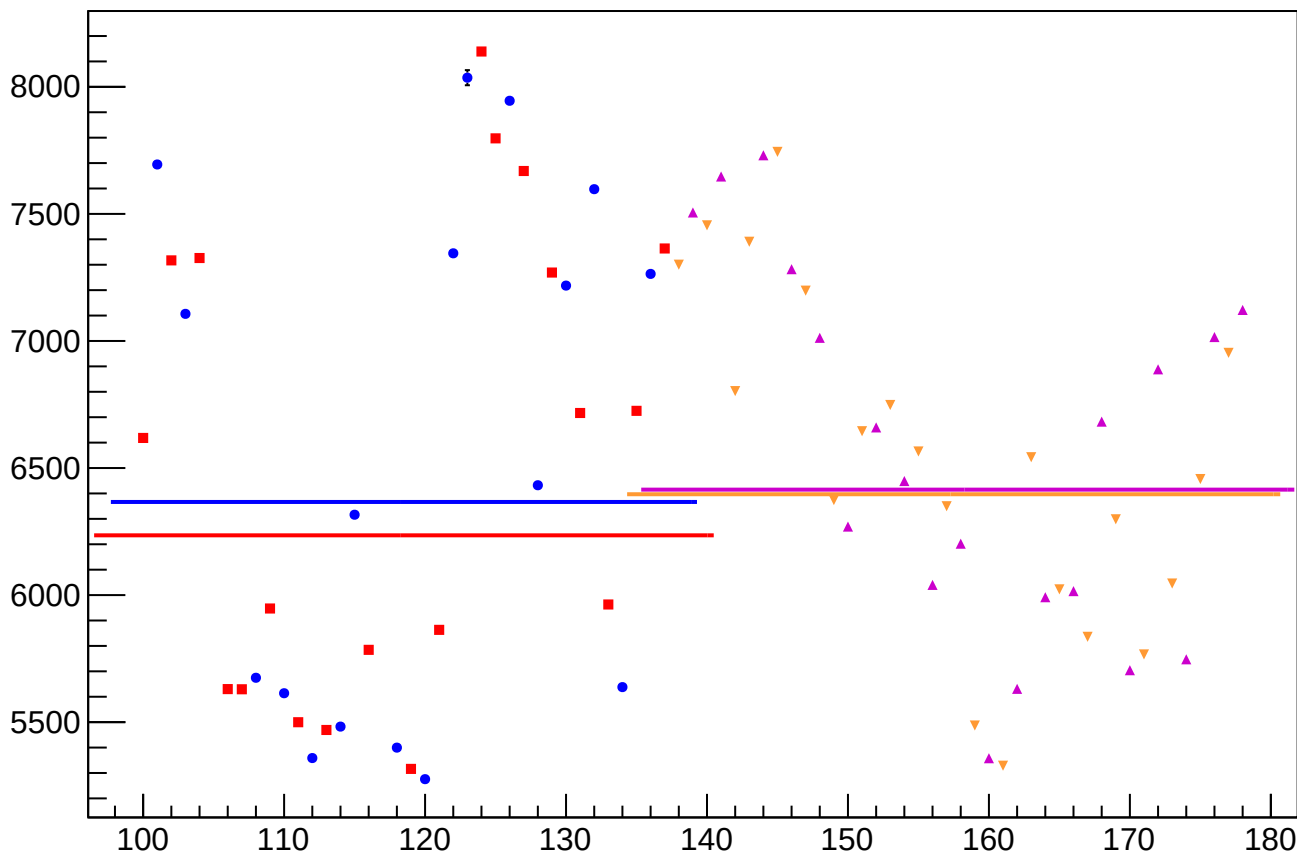
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: -1.453 ± 1.376 $\chi^2/\text{NDF}: 125.4/36$

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

All: -1.535 ± 0.959 $\chi^2/\text{NDF}: 187.3/76$

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6396.847+/-1.150 χ^2/NDF : 315274.6/20

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

Left In: 6414.983+/-1.168 χ^2/NDF : 346904.8/19

Left: 6405.772+/-0.819 χ^2/NDF : 662301.9/40

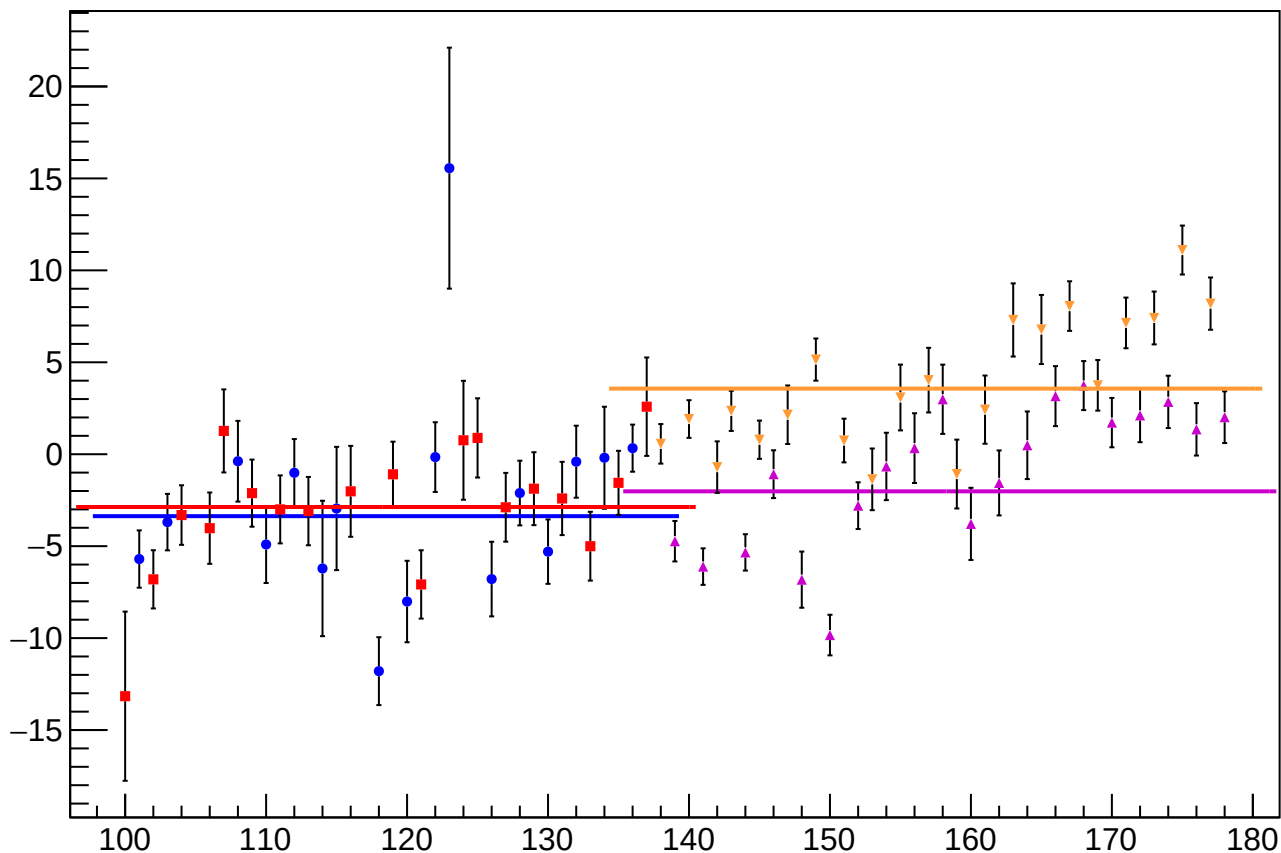
Right: 6297.369+/-1.209 χ^2/NDF : 532637.5/35

In: 6400.126+/-0.973 χ^2/NDF : 633927.5/36

Out: 6344.730+/-0.946 χ^2/NDF : 564852.5/39

All: 6371.669+/-0.678 χ^2/NDF : 1200446.0/76

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

Left Out: 3.568 ± 0.299 χ^2/NDF : 125.8/20

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

Left In: -2.018 ± 0.308 χ^2/NDF : 177.1/19

Left: 0.864 ± 0.215 χ^2/NDF : 472.0/40

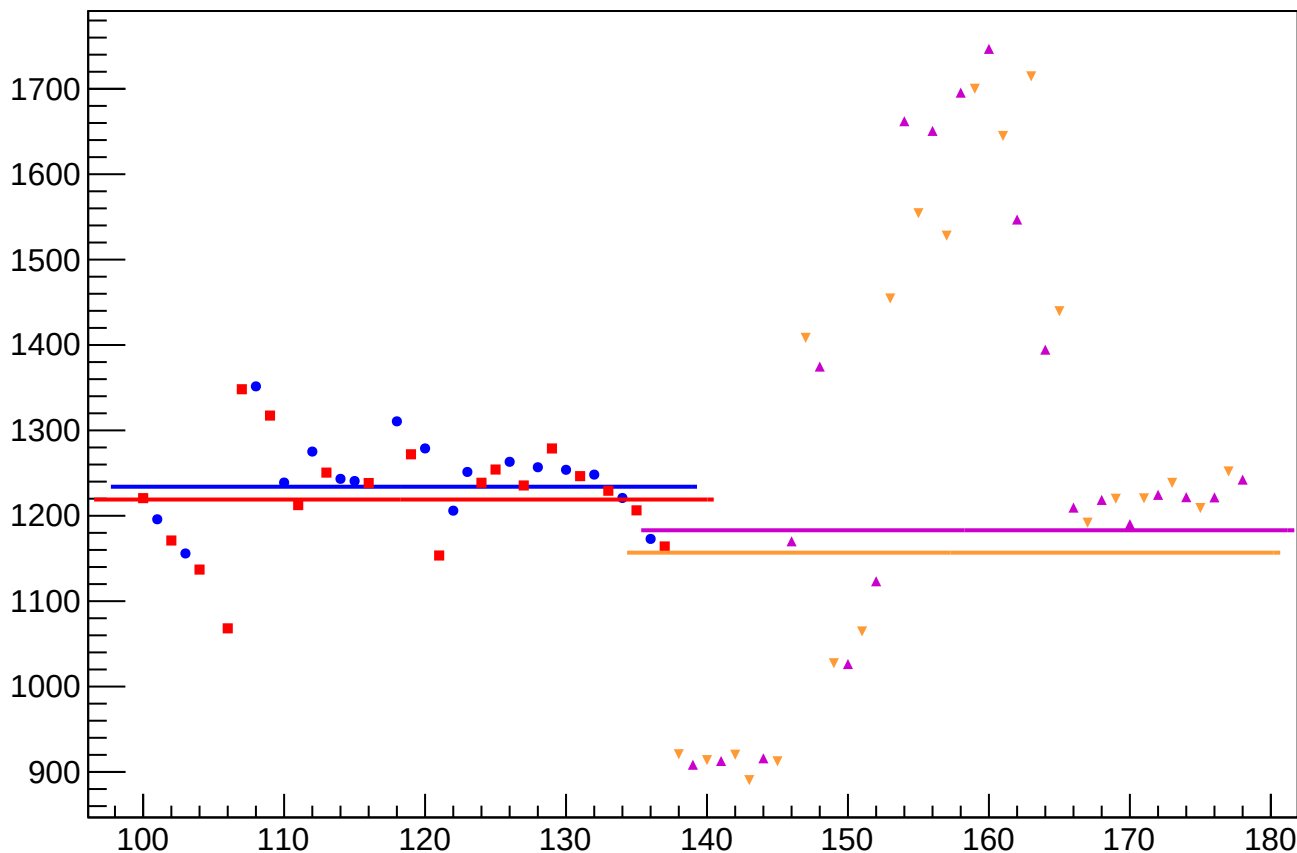
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -2.418 ± 0.259 χ^2/NDF : 242.6/36

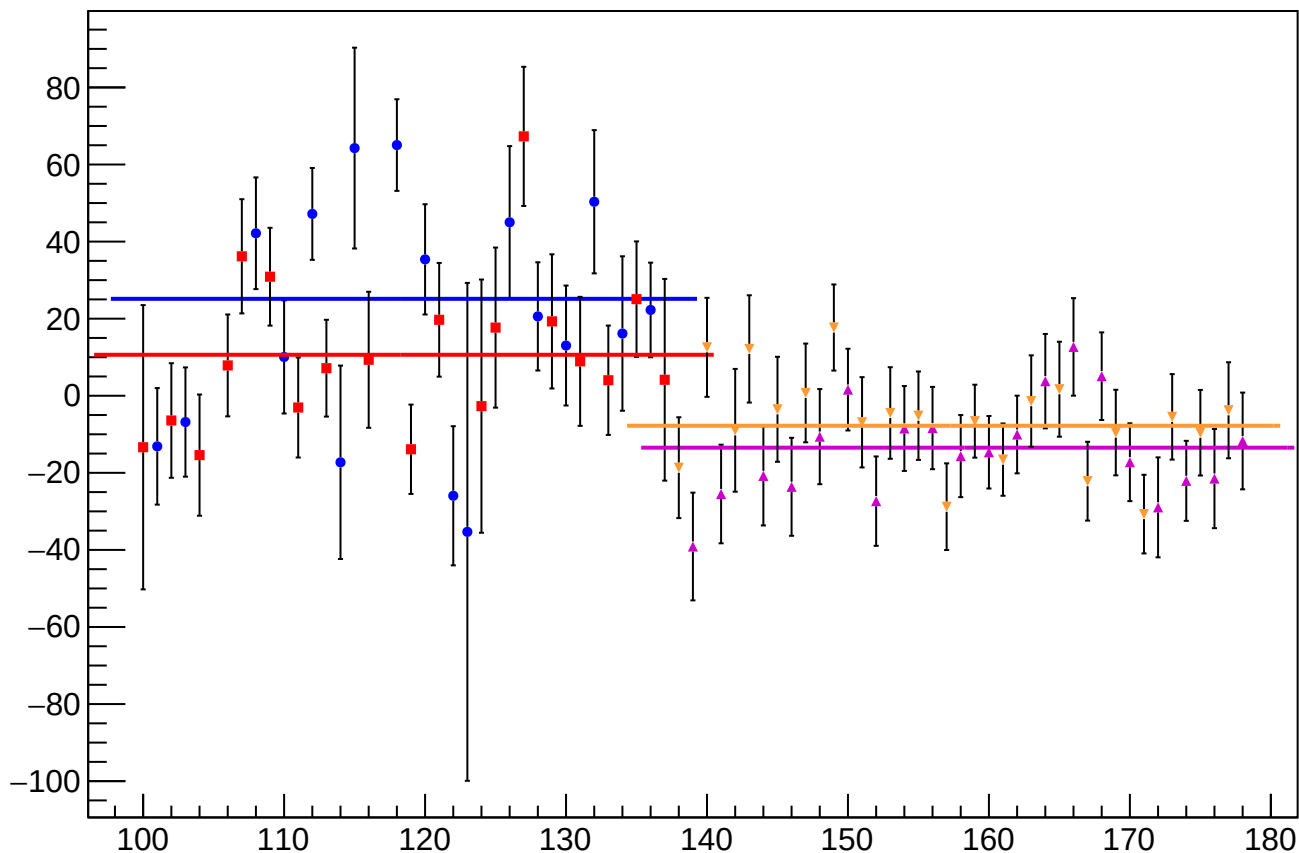
Out: 1.637 ± 0.250 χ^2/NDF : 297.1/39

All: -0.320 ± 0.180 χ^2/NDF : 666.7/76

diff_bpm0l06Y_rms vs Slug, Sign Corrected



diff_bpm0l07X_mean vs Slug, Sign Corrected



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

Left Out: -7.785 ± 2.527 $\chi^2/\text{NDF}: 23.6/20$

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

Left In: -13.472 ± 2.570 $\chi^2/\text{NDF}: 20.9/19$

Left: -10.581 ± 1.802 $\chi^2/\text{NDF}: 47.0/40$

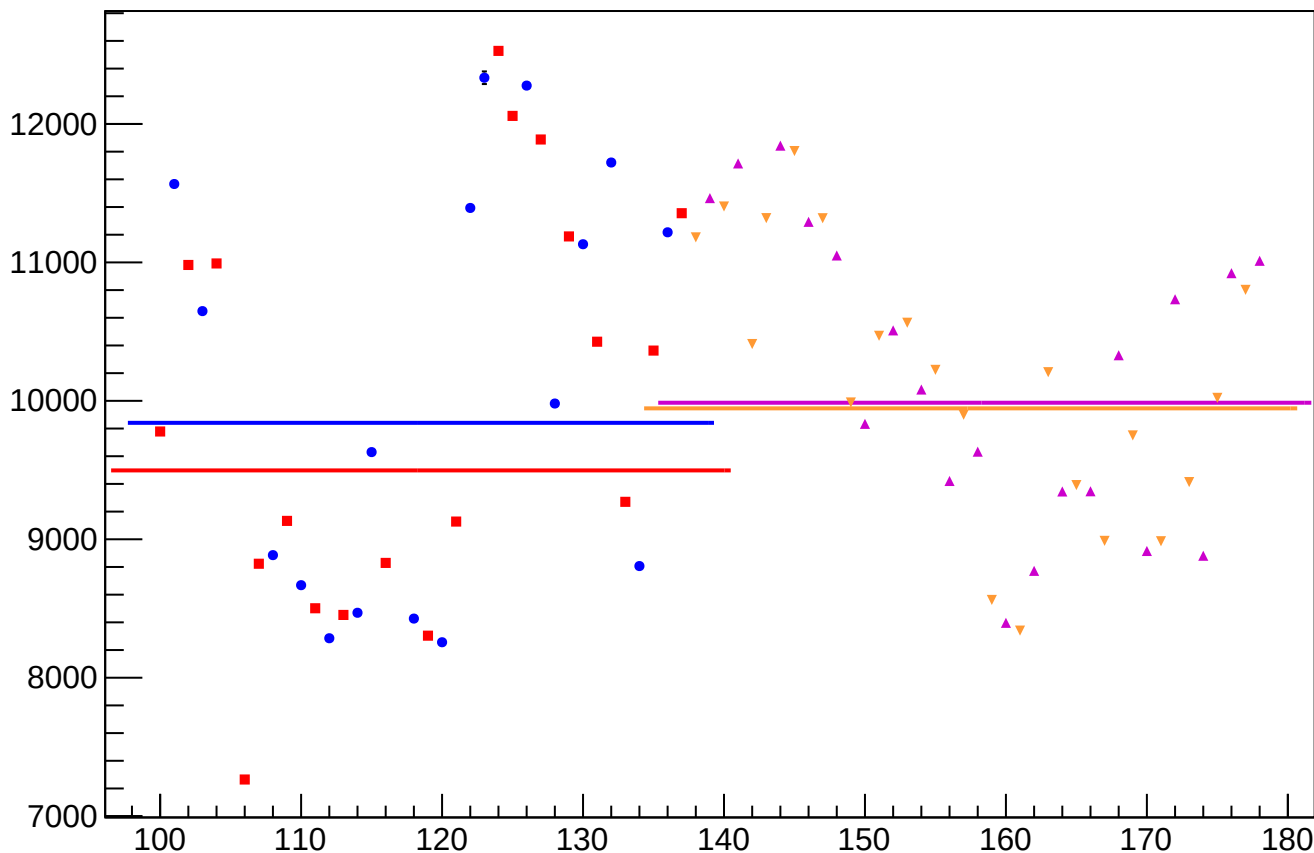
Right: 17.418 ± 2.623 $\chi^2/\text{NDF}: 82.3/35$

In: -1.512 ± 2.135 $\chi^2/\text{NDF}: 137.8/36$

Out: -1.692 ± 2.067 $\chi^2/\text{NDF}: 68.9/39$

All: -1.605 ± 1.485 $\chi^2/\text{NDF}: 206.7/76$

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

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

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

Left In: 9986.326 $\pm$ 1.817 χ^2 /NDF: 323274.8/19

Left: 9965.683 $\pm$ 1.274 χ^2 /NDF: 615590.4/40

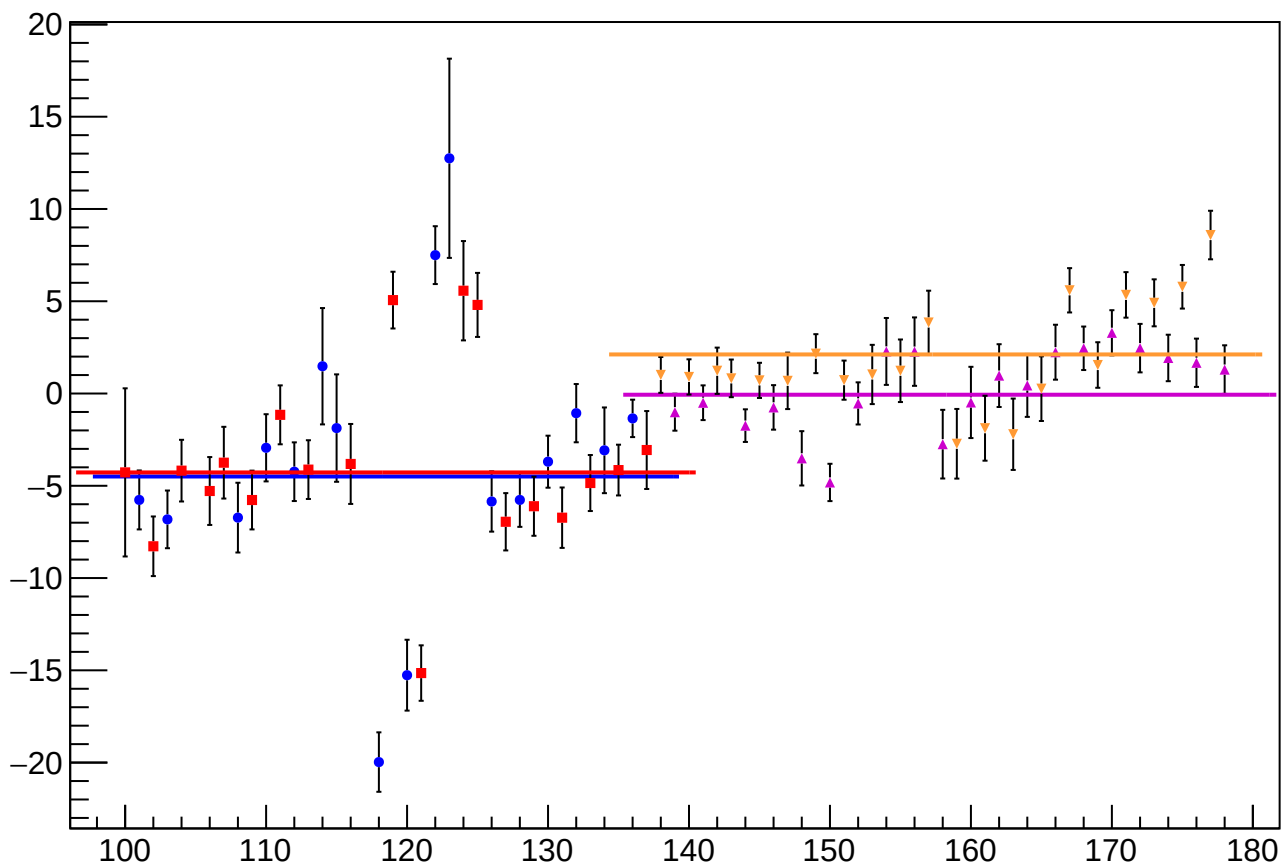
Right: 9658.117 $\pm$ 1.855 χ^2 /NDF: 545307.6/35

In: 9941.376 $\pm$ 1.510 χ^2 /NDF: 585312.6/36

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

All: 9867.083 $\pm$ 1.050 χ^2 /NDF: 1179575.2/76

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.066 ± 0.285 χ^2/NDF : 62.1/19

Left: 1.064 ± 0.198 χ^2/NDF : 176.1/40

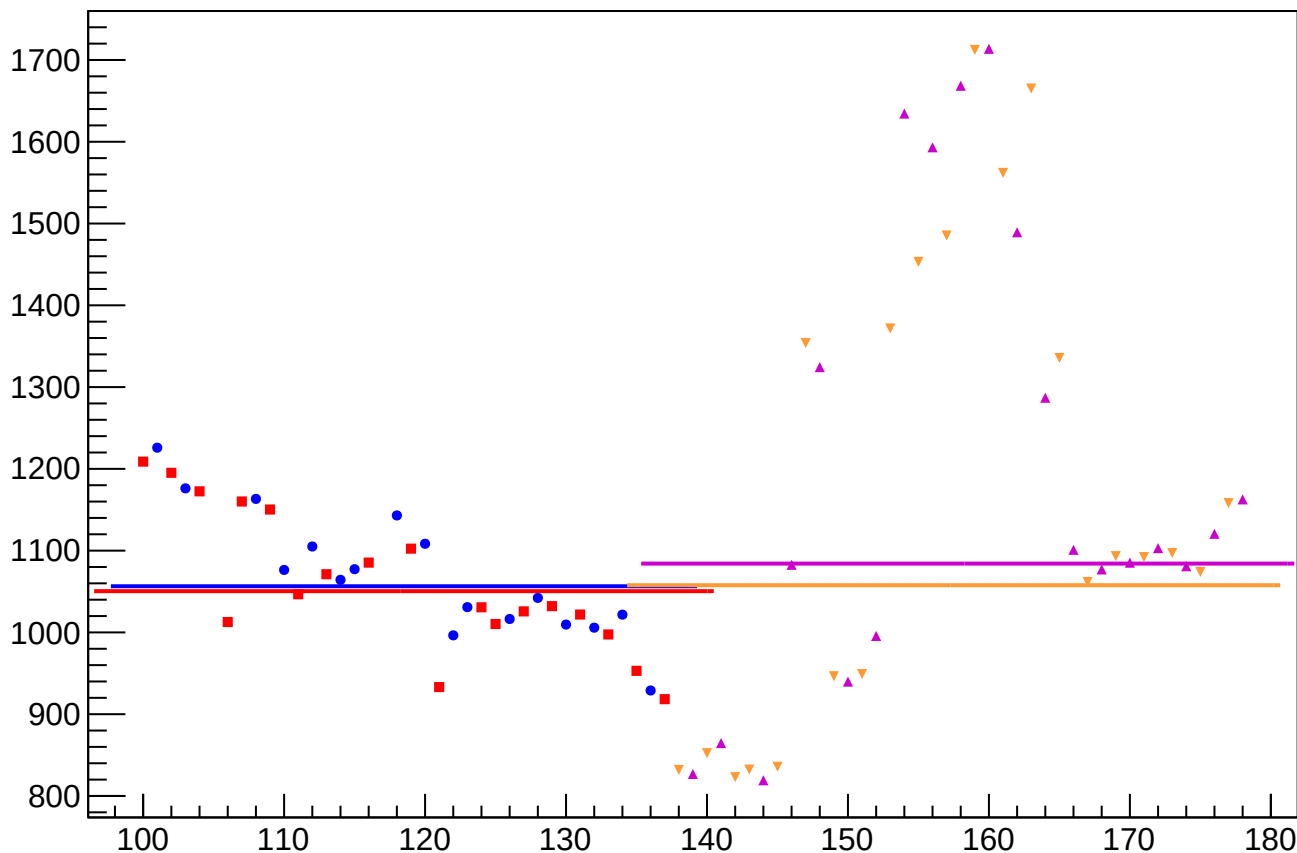
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -1.515 ± 0.233 χ^2/NDF : 359.8/36

Out: 0.026 ± 0.225 χ^2/NDF : 409.1/39

All: -0.717 ± 0.162 χ^2/NDF : 791.5/76

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.436 +/- 0.289 χ^2/NDF : 90773.0/16

Left Out: 1057.729 +/- 0.194 χ^2/NDF : 1573400.2/20

Right Out: 1050.443 +/- 0.279 χ^2/NDF : 82396.5/18

Left In: 1084.158 +/- 0.201 χ^2/NDF : 1422600.7/19

Left: 1070.476 +/- 0.140 χ^2/NDF : 3004933.6/40

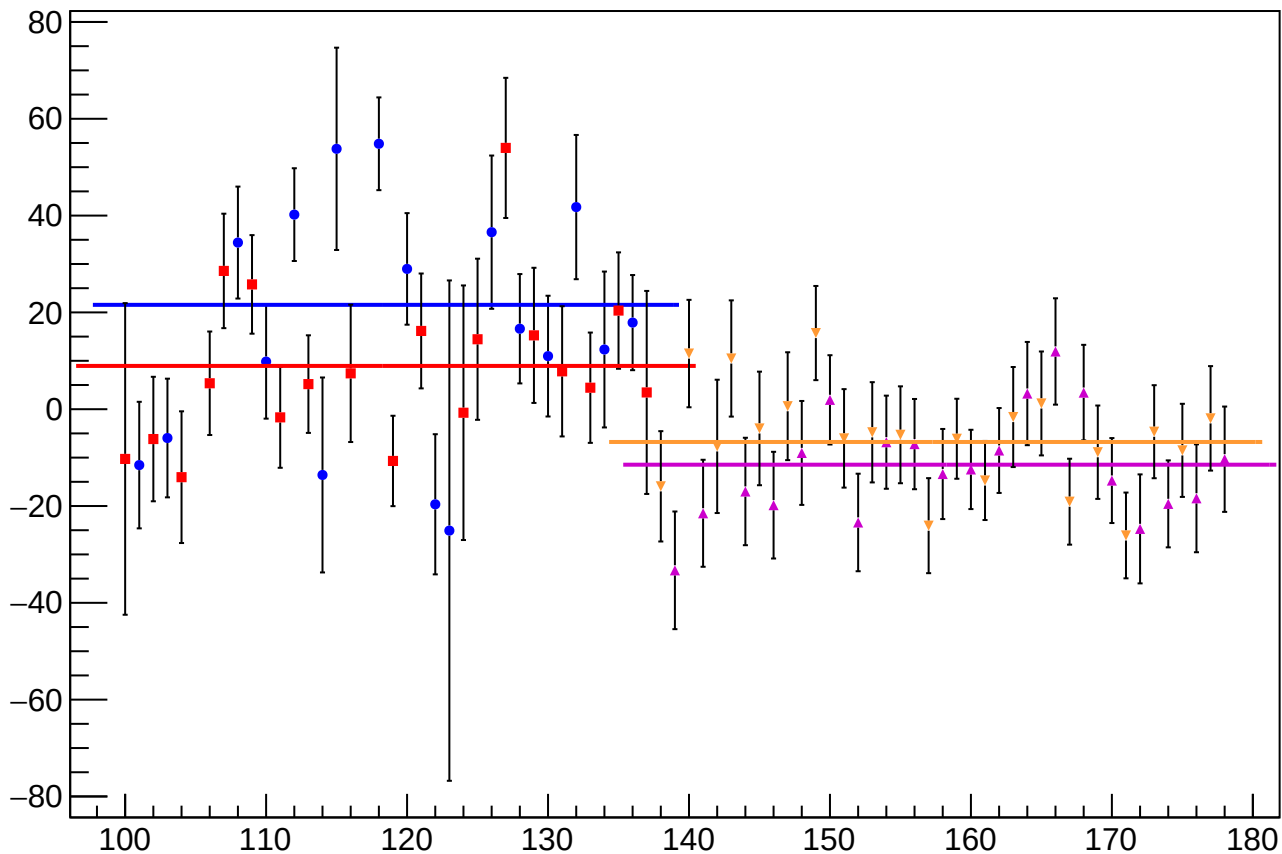
Right: 1053.333 +/- 0.200 χ^2/NDF : 173392.8/35

In: 1075.092 +/- 0.165 χ^2/NDF : 1519582.5/36

Out: 1055.346 +/- 0.159 χ^2/NDF : 1656257.2/39

All: 1064.869 +/- 0.115 χ^2/NDF : 3183249.3/76

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.561 ± 3.110 $\chi^2/\text{NDF}: 48.4/16$

Left Out: -6.769 ± 2.196 $\chi^2/\text{NDF}: 23.2/20$

Right Out: 8.943 ± 2.912 $\chi^2/\text{NDF}: 27.4/18$

Left In: -11.463 ± 2.234 $\chi^2/\text{NDF}: 20.5/19$

Left: -9.076 ± 1.566 $\chi^2/\text{NDF}: 45.9/40$

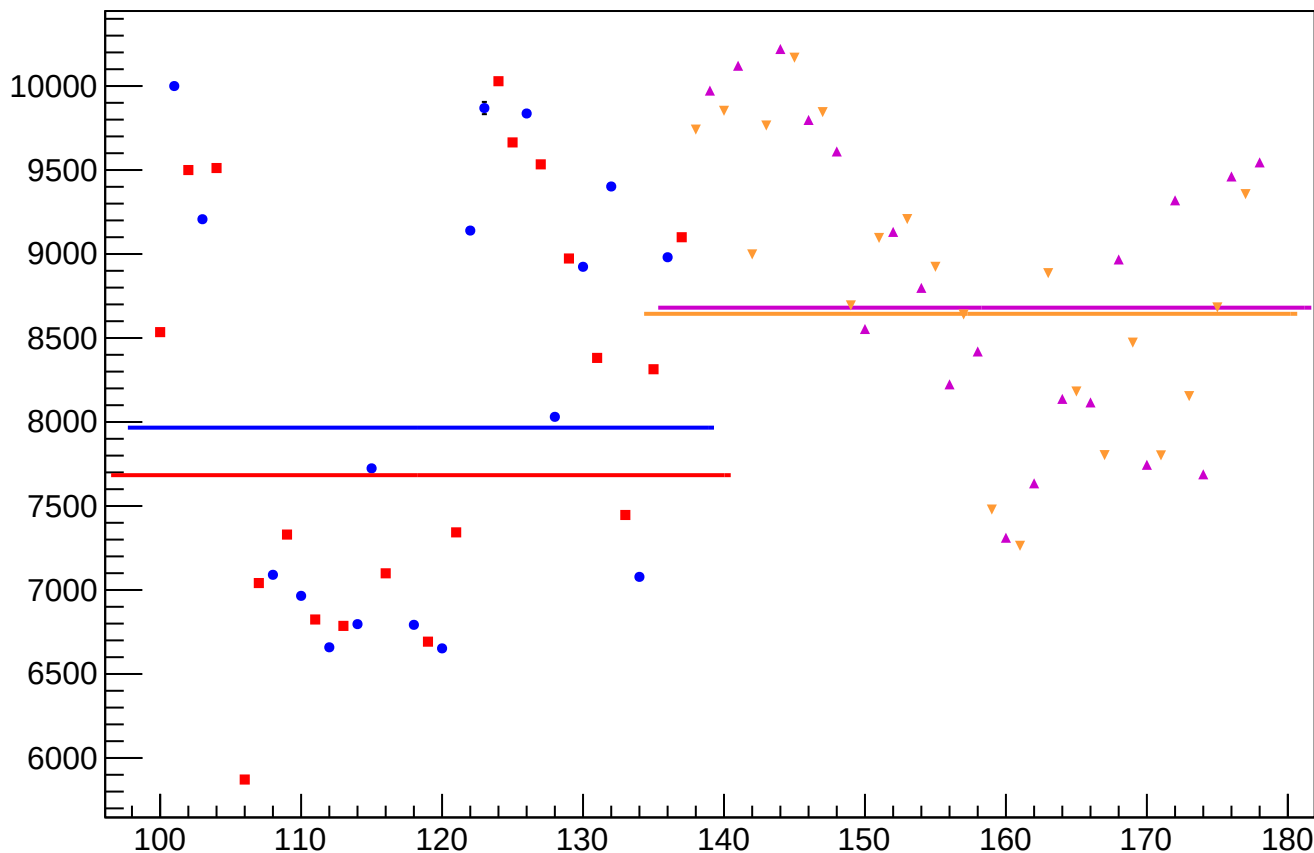
Right: 14.837 ± 2.126 $\chi^2/\text{NDF}: 84.6/35$

In: -0.227 ± 1.814 $\chi^2/\text{NDF}: 143.3/36$

Out: -1.072 ± 1.753 $\chi^2/\text{NDF}: 69.2/39$

All: -0.664 ± 1.261 $\chi^2/\text{NDF}: 212.6/76$

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8643.996 $\pm$ 1.553 χ^2 /NDF: 281840.5/20

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

Left In: 8680.523 $\pm$ 1.579 χ^2 /NDF: 314139.5/19

Left: 8661.951 $\pm$ 1.107 χ^2 /NDF: 596251.9/40

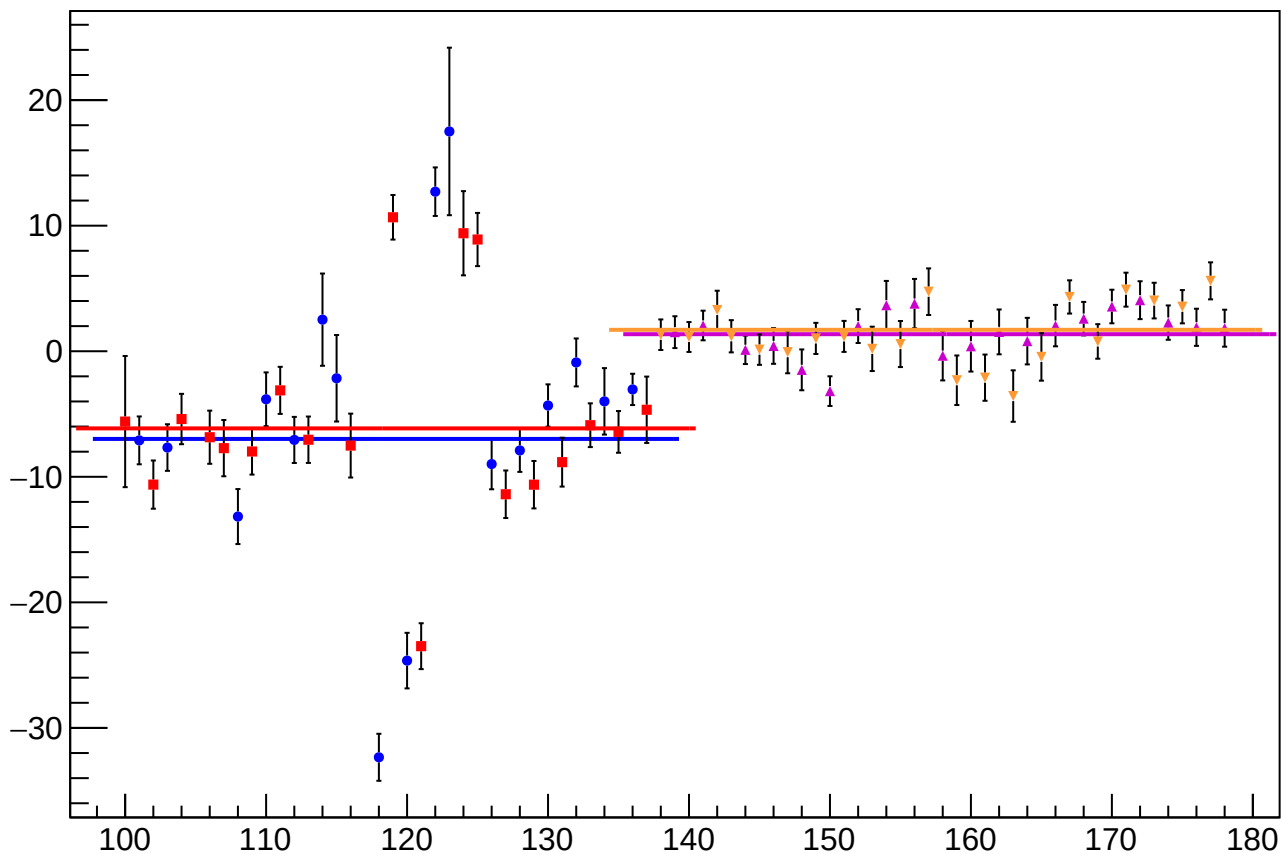
Right: 7815.627 $\pm$ 1.503 χ^2 /NDF: 620463.8/35

In: 8437.557 $\pm$ 1.283 χ^2 /NDF: 680307.7/36

Out: 8295.738 $\pm$ 1.240 χ^2 /NDF: 735590.4/39

All: 8364.228 $\pm$ 0.892 χ^2 /NDF: 1422217.1/76

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 1.706 ± 0.318 χ^2/NDF : 46.6/20

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

Left In: 1.357 ± 0.328 χ^2/NDF : 31.7/19

Left: 1.537 ± 0.228 χ^2/NDF : 78.9/40

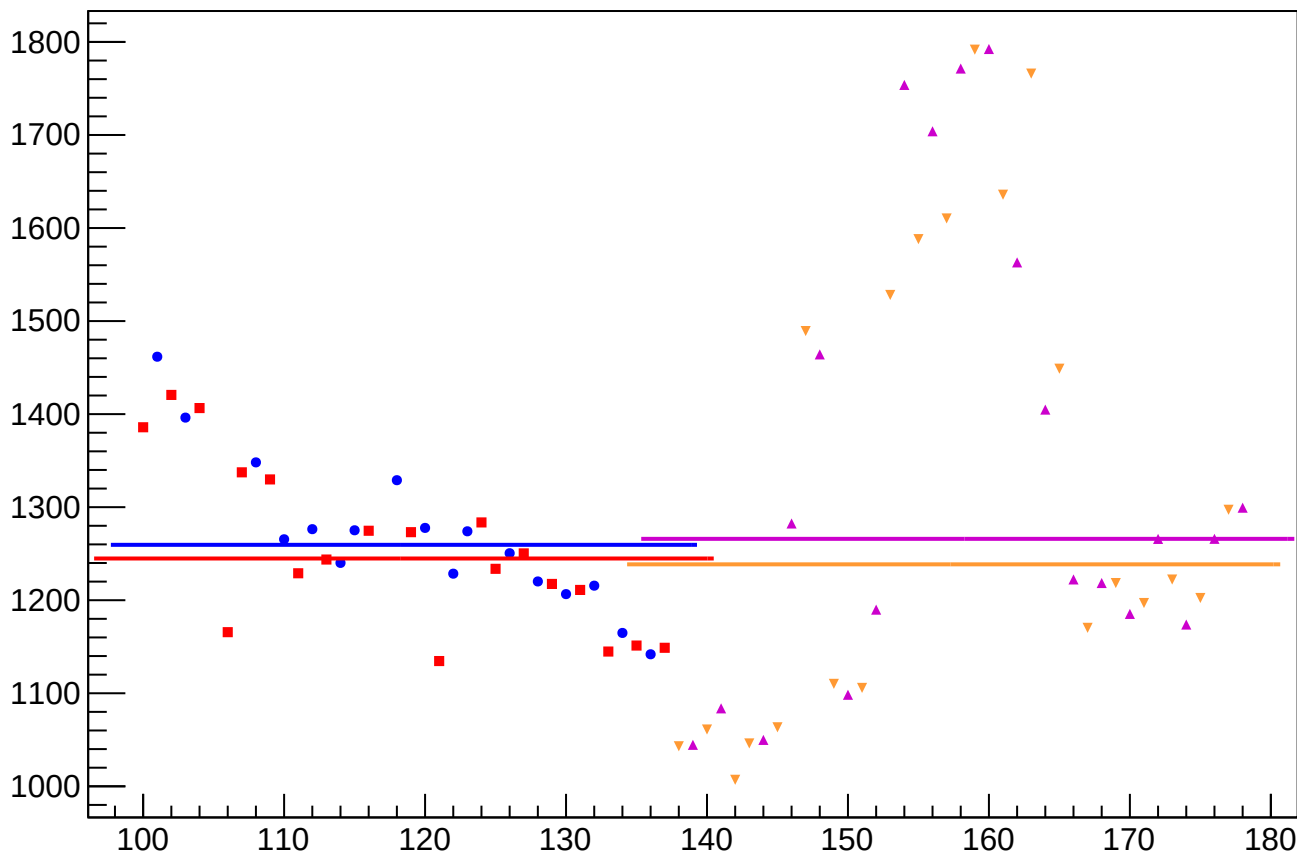
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -1.256 ± 0.272 χ^2/NDF : 642.4/36

Out: -0.782 ± 0.263 χ^2/NDF : 517.4/39

All: -1.010 ± 0.189 χ^2/NDF : 1161.4/76

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1238.557 ± 0.225 $\chi^2/\text{NDF}: 943966.1/20$

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

Left In: 1265.957 ± 0.232 $\chi^2/\text{NDF}: 840532.0/19$

Left: 1251.808 ± 0.161 $\chi^2/\text{NDF}: 1791689.2/40$

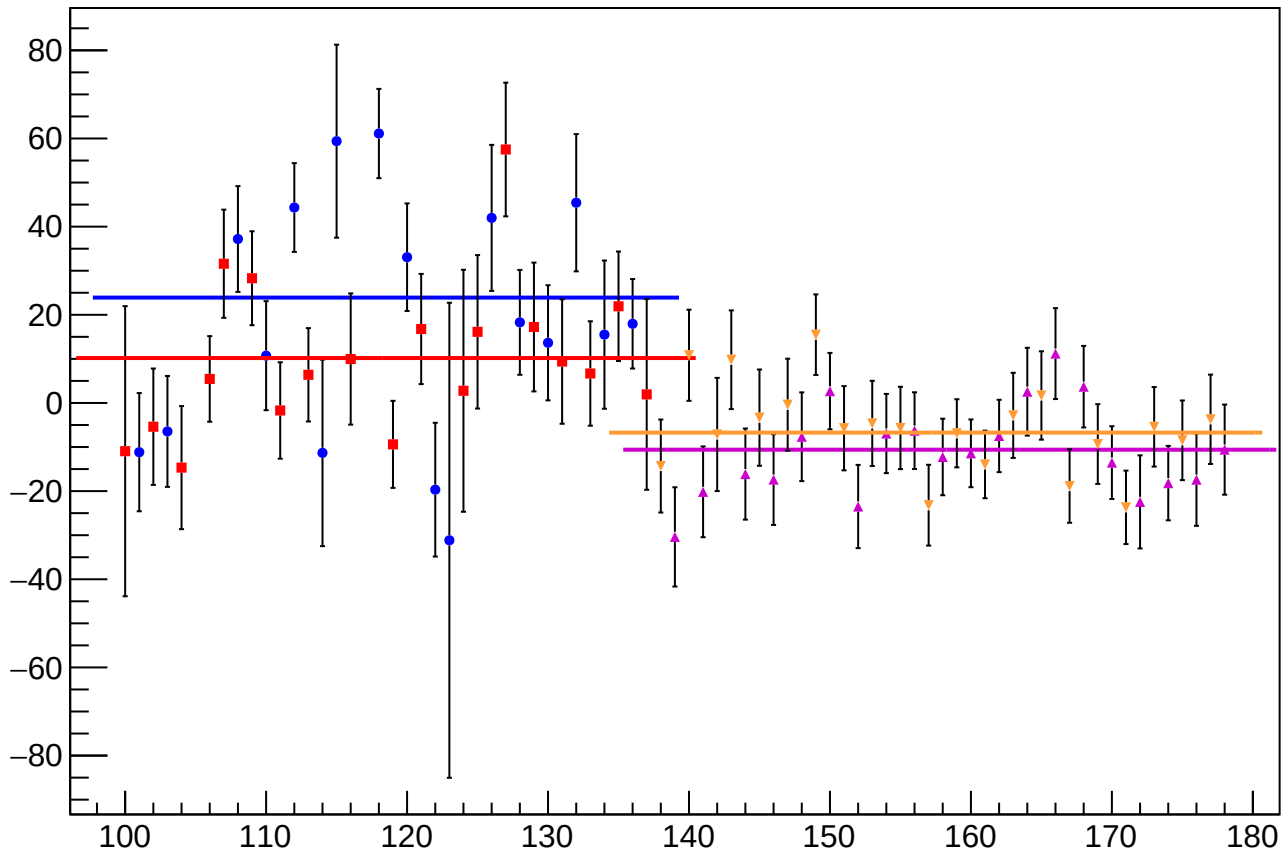
Right: 1251.883 ± 0.238 $\chi^2/\text{NDF}: 132621.3/35$

In: 1263.944 ± 0.192 $\chi^2/\text{NDF}: 905616.4/36$

Out: 1240.547 ± 0.186 $\chi^2/\text{NDF}: 1011039.5/39$

All: 1251.832 ± 0.134 $\chi^2/\text{NDF}: 1924310.5/76$

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

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

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

Left In: -10.605 ± 2.091 $\chi^2/\text{NDF}: 20.8/19$

Left: -8.630 ± 1.466 $\chi^2/\text{NDF}: 46.0/40$

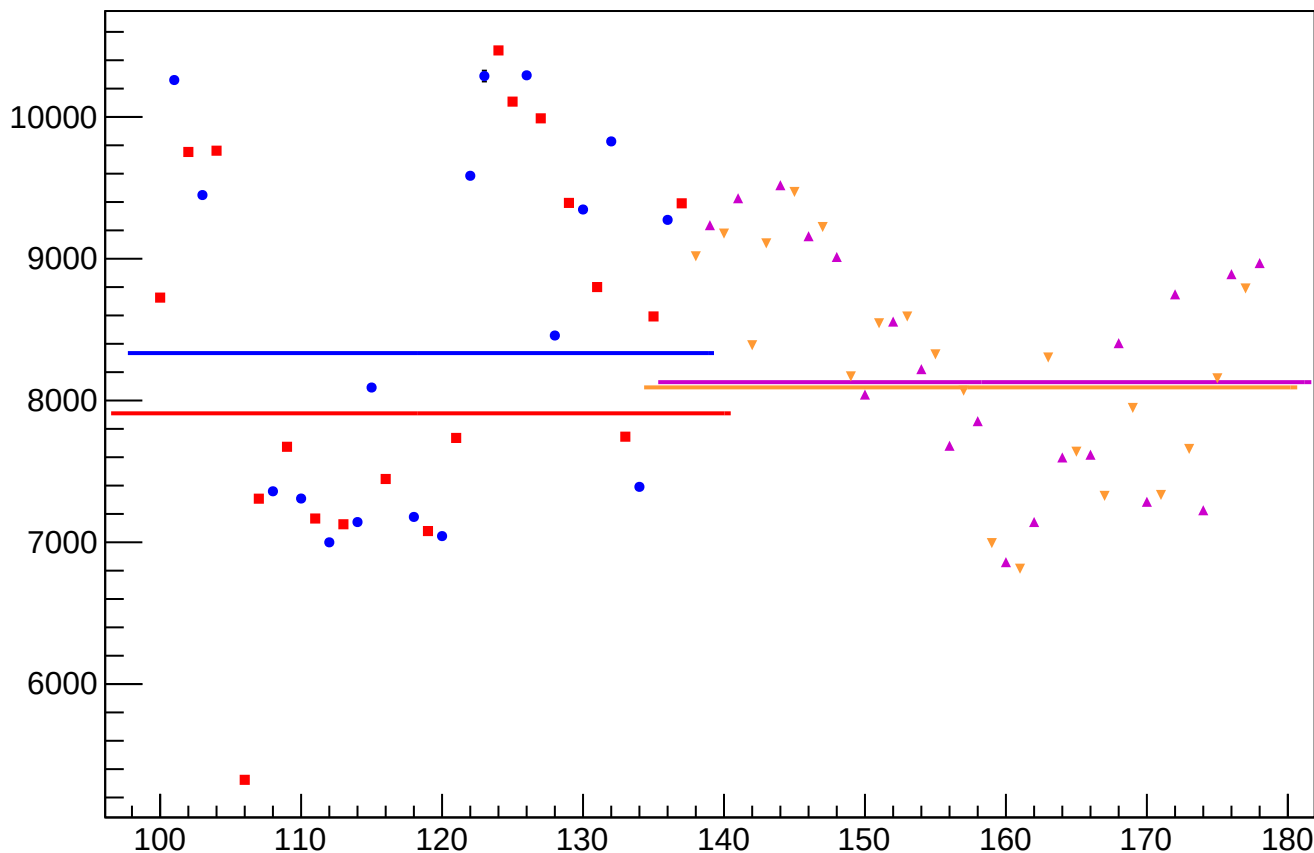
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: -0.502 ± 1.759 $\chi^2/\text{NDF}: 152.9/36$

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

All: -0.932 ± 1.221 $\chi^2/\text{NDF}: 226.1/76$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

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

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

Left In: 8129.531 $\pm$ 1.479 χ^2 /NDF: 305051.8/19

Left: 8110.745 $\pm$ 1.037 χ^2 /NDF: 576187.8/40

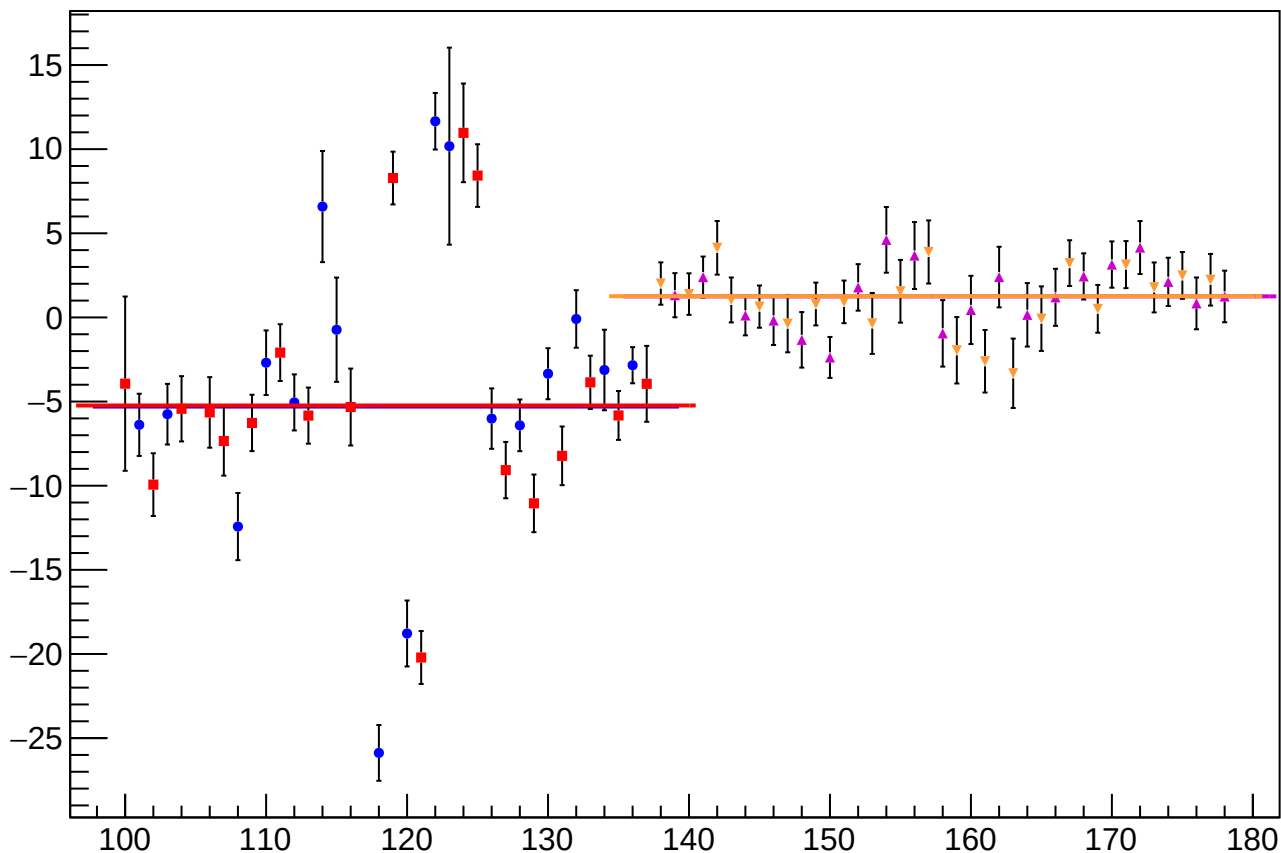
Right: 8105.450 $\pm$ 1.560 χ^2 /NDF: 681543.4/35

In: 8189.537 $\pm$ 1.244 χ^2 /NDF: 582979.0/36

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

All: 8109.124 $\pm$ 0.863 χ^2 /NDF: 1257739.2/76

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.252 ± 0.338 χ^2/NDF : 27.3/19

Left: 1.257 ± 0.235 χ^2/NDF : 53.0/40

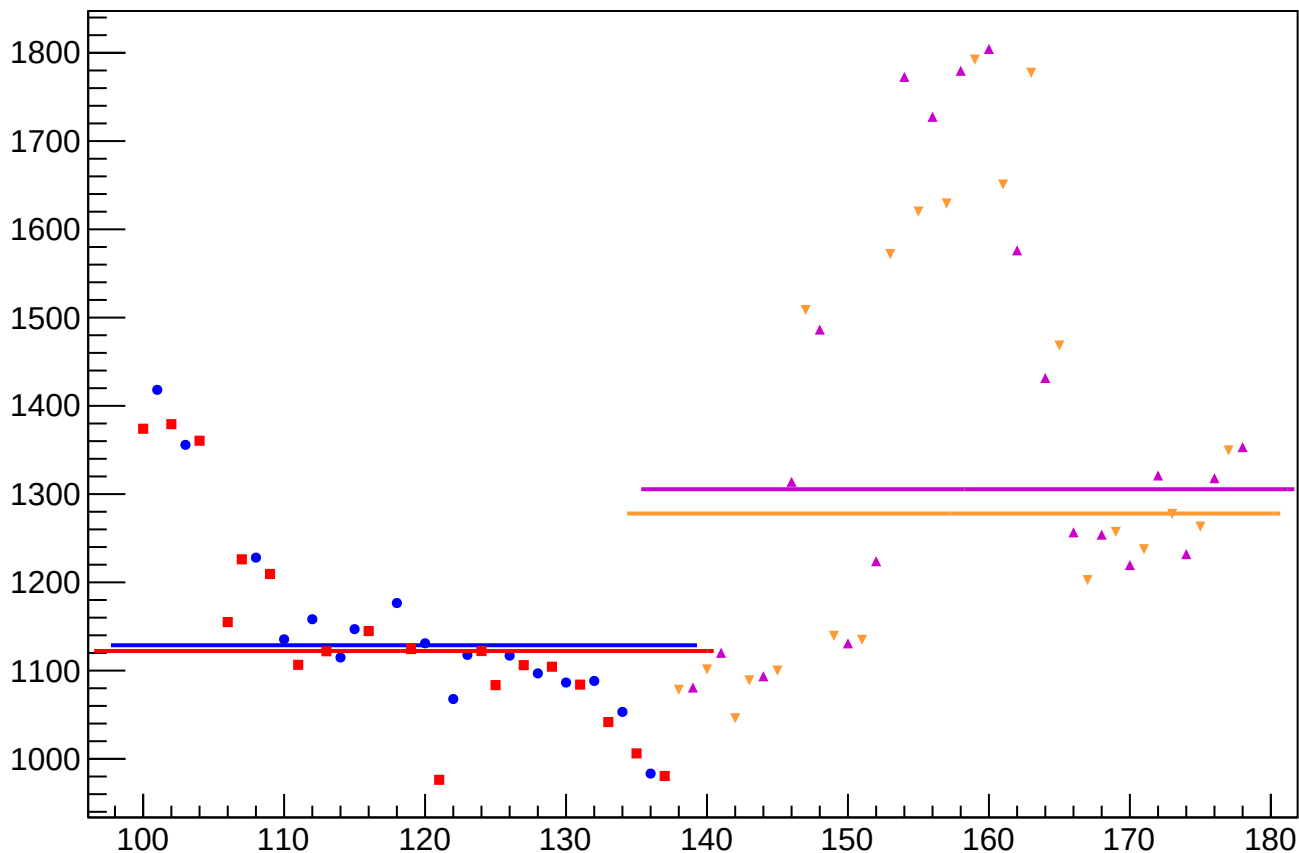
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -1.199 ± 0.267 χ^2/NDF : 526.0/36

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

All: -1.189 ± 0.186 χ^2/NDF : 981.6/76

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.740 $\pm$ 0.309 χ^2/NDF : 133096.9/16

Left Out: 1278.002 $\pm$ 0.231 χ^2/NDF : 856591.2/20

Right Out: 1122.238 $\pm$ 0.298 χ^2/NDF : 129601.6/18

Left In: 1305.529 $\pm$ 0.239 χ^2/NDF : 756487.2/19

Left: 1291.322 $\pm$ 0.166 χ^2/NDF : 1619926.9/40

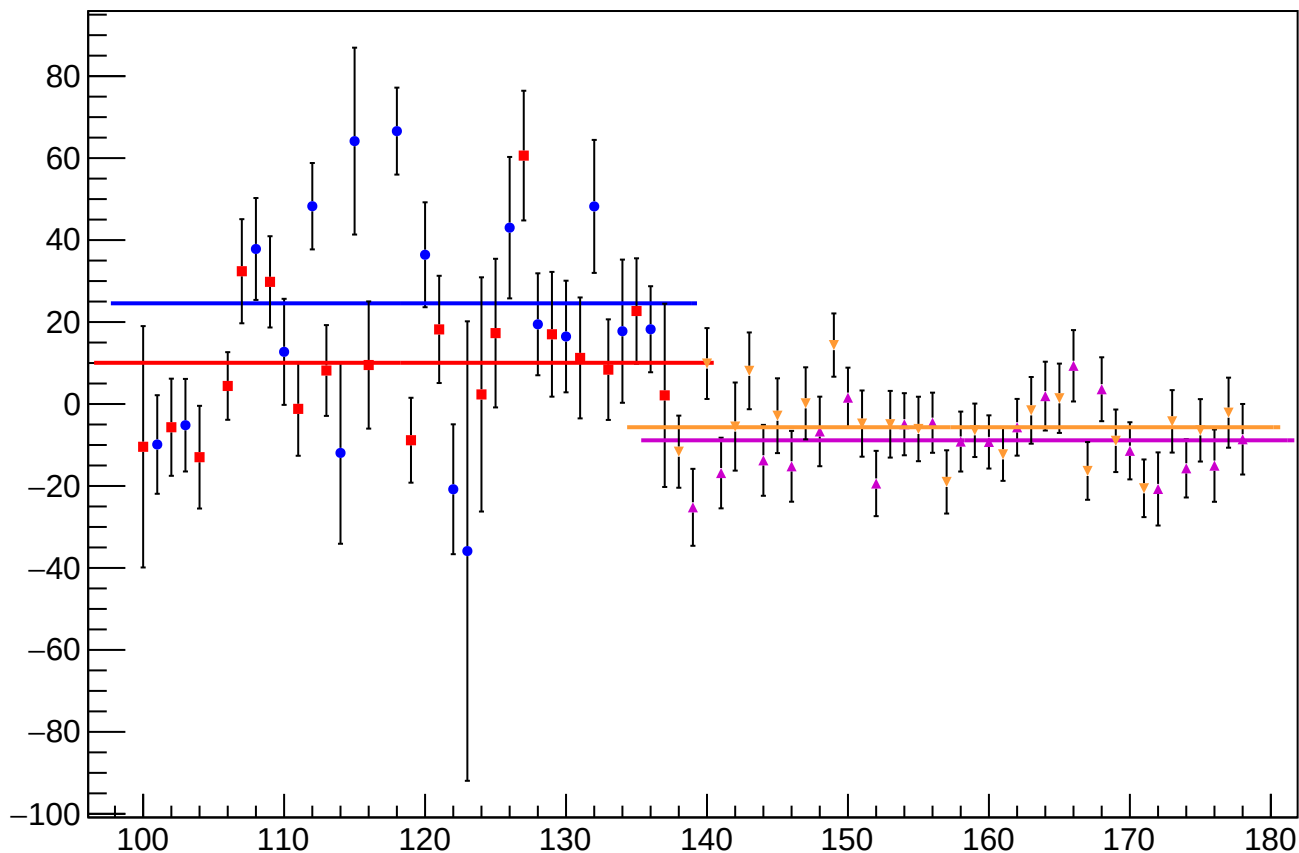
Right: 1125.374 $\pm$ 0.215 χ^2/NDF : 262927.9/35

In: 1239.338 $\pm$ 0.189 χ^2/NDF : 1094505.8/36

Out: 1219.452 $\pm$ 0.183 χ^2/NDF : 1156533.6/39

All: 1229.063 $\pm$ 0.131 χ^2/NDF : 2256759.1/76

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

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

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

Left In: -8.858 ± 1.762 $\chi^2/\text{NDF}: 21.3/19$

Left: -7.233 ± 1.235 $\chi^2/\text{NDF}: 48.3/40$

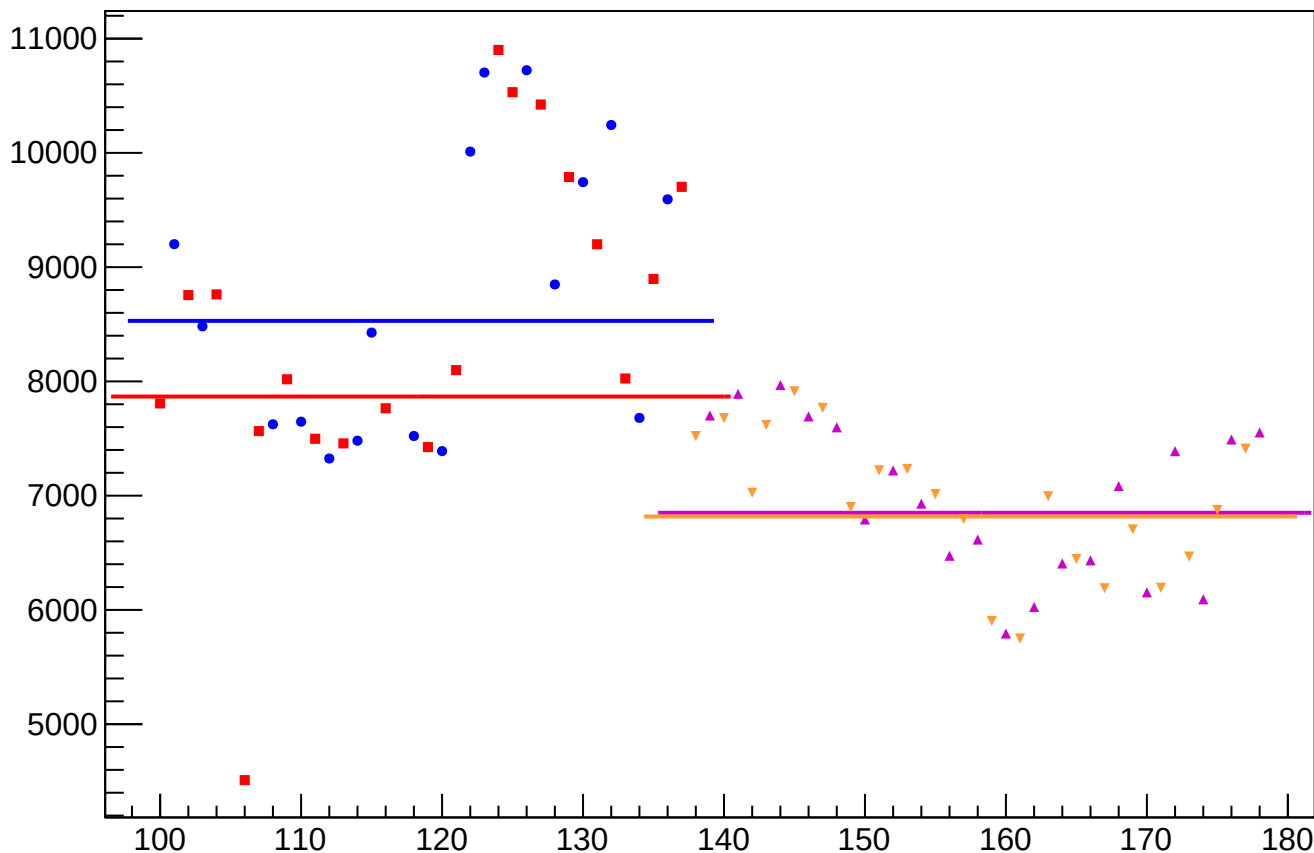
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

In: -1.508 ± 1.556 $\chi^2/\text{NDF}: 158.6/36$

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

All: -1.634 ± 1.080 $\chi^2/\text{NDF}: 233.2/76$

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6817.604 $\pm$ 1.224 χ^2 /NDF: 256696.1/20

Right Out: 7867.584 $\pm$ 2.127 χ^2 /NDF: 555841.7/18

Left In: 6850.397 $\pm$ 1.246 χ^2 /NDF: 292804.0/19

Left: 6833.714 $\pm$ 0.873 χ^2 /NDF: 549852.7/40

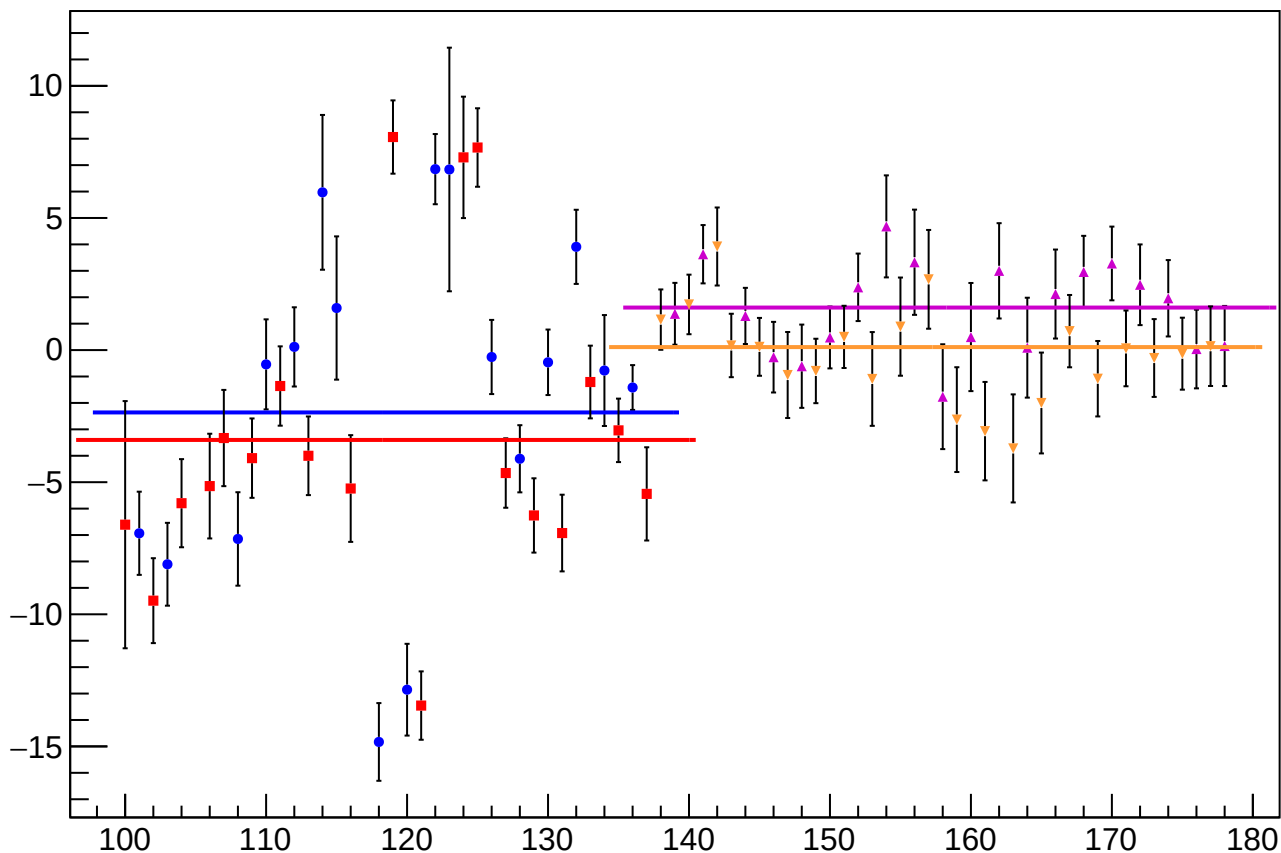
Right: 8166.253 $\pm$ 1.576 χ^2 /NDF: 807907.7/35

In: 7219.678 $\pm$ 1.100 χ^2 /NDF: 900771.7/36

Out: 7078.894 $\pm$ 1.061 χ^2 /NDF: 995627.4/39

All: 7146.722 $\pm$ 0.764 χ^2 /NDF: 1904882.9/76

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.609 ± 0.324 χ^2/NDF : 21.3/19

Left: 0.836 ± 0.225 χ^2/NDF : 56.1/40

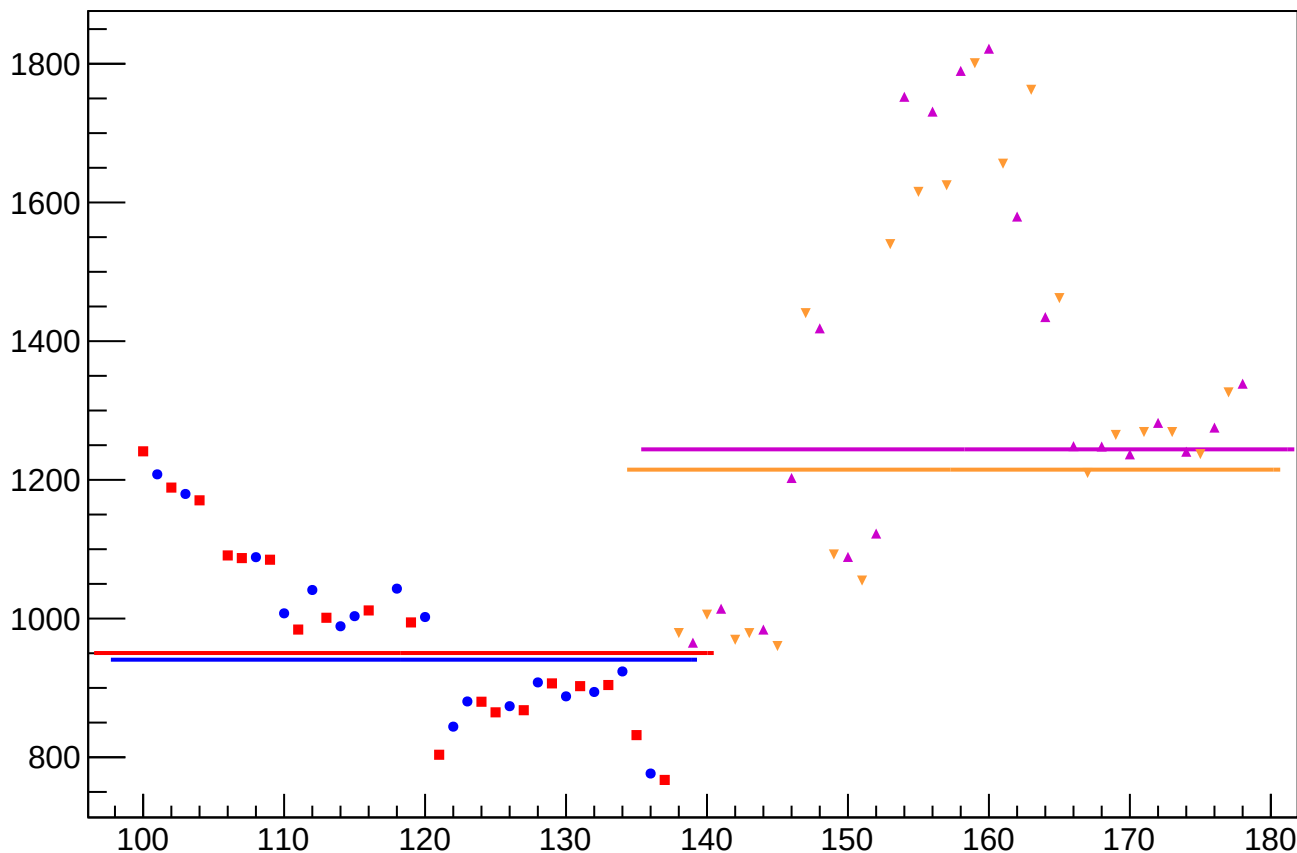
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.136 ± 0.242 χ^2/NDF : 319.4/36

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

All: -0.790 ± 0.169 χ^2/NDF : 653.3/76

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1214.740+/-0.221 χ^2/NDF :1229420.7/20

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

Left In: 1244.000+/-0.229 χ^2/NDF :1068192.7/19

Left: 1228.870+/-0.159 χ^2/NDF : 2306059.2/40

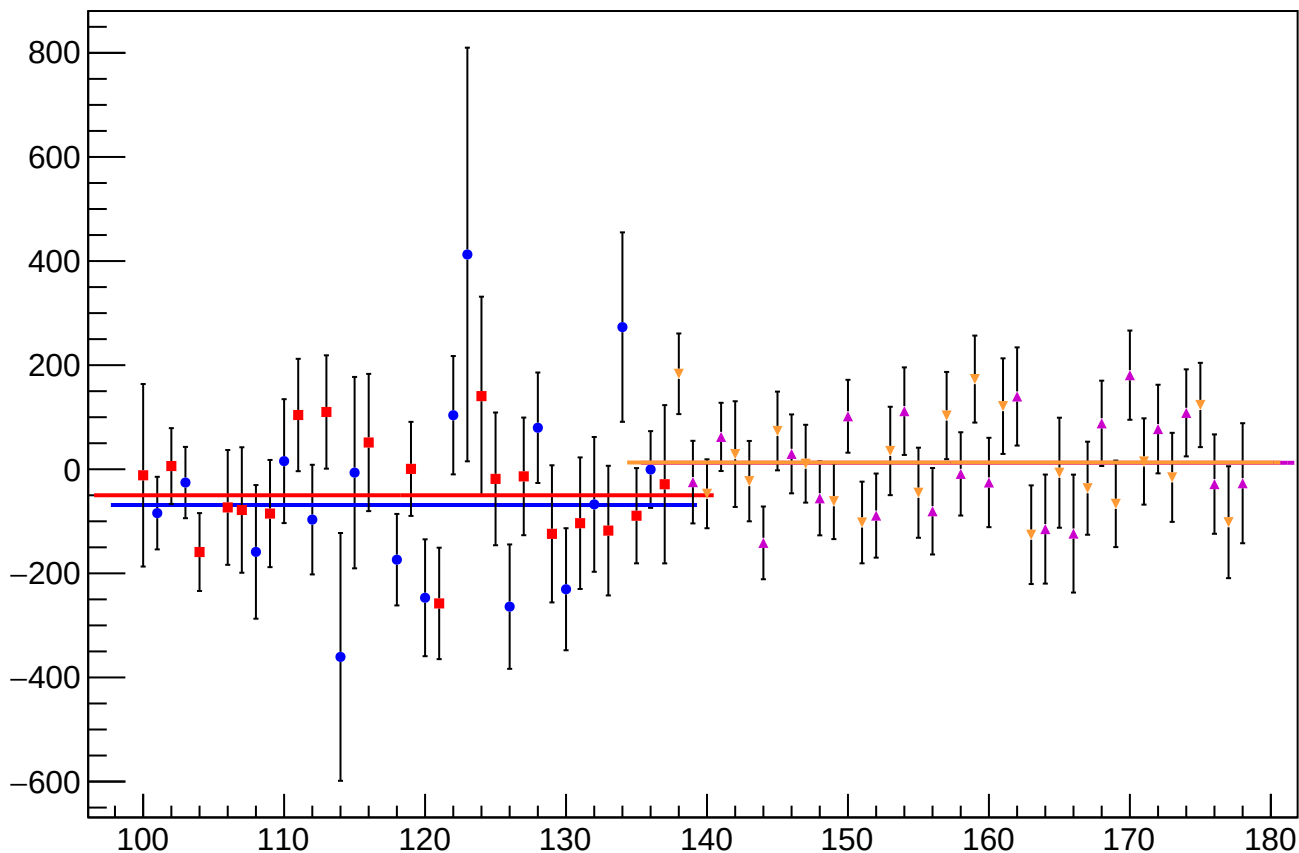
Right: 945.597+/-0.181 χ^2/NDF : 463155.1/35

In: 1110.649+/-0.171 χ^2/NDF :2081573.1/36

Out: 1100.295+/-0.167 χ^2/NDF :2068285.4/39

All: 1105.326+/-0.119 χ^2/NDF : 4151734.6/76

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 ± 25.946 χ^2/NDF : 21.8/16

Left Out: 12.996 ± 18.159 χ^2/NDF : 23.0/20

Right Out: -49.958 ± 25.020 χ^2/NDF : 14.0/18

Left In: 12.412 ± 18.458 χ^2/NDF : 24.4/19

Left: 12.709 ± 12.945 χ^2/NDF : 47.4/40

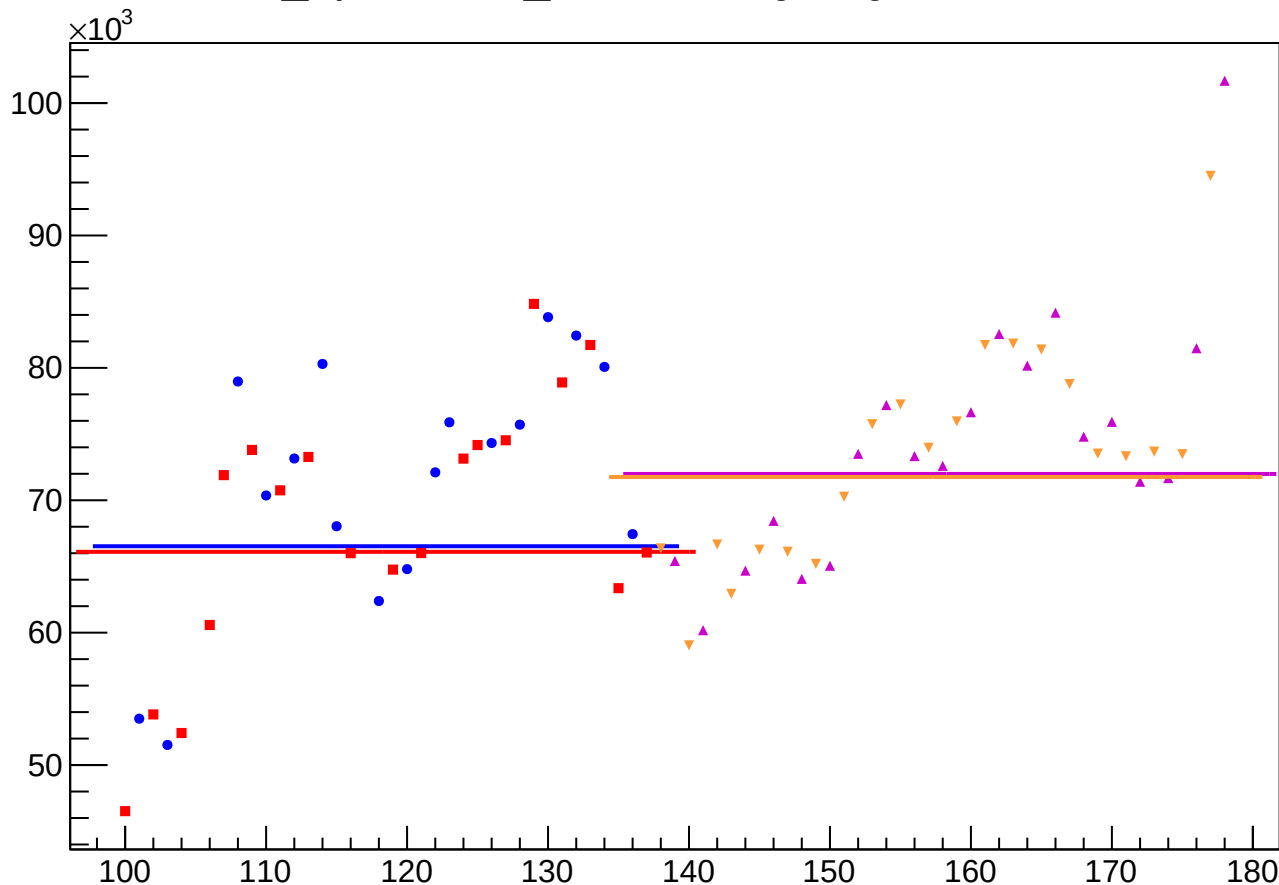
Right: -58.983 ± 18.010 χ^2/NDF : 36.0/35

In: -14.840 ± 15.040 χ^2/NDF : 52.6/36

Out: -8.725 ± 14.696 χ^2/NDF : 41.2/39

All: -11.712 ± 10.511 χ^2/NDF : 93.9/76

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66527.251 $\pm$ 18.347 χ^2/NDF : 320887.2/16

Left Out: 71756.364 $\pm$ 12.841 χ^2/NDF : 340633.9/20

Right Out: 66105.849 $\pm$ 17.692 χ^2/NDF : 298485.4/18

Left In: 71988.301 $\pm$ 13.052 χ^2/NDF : 383674.2/19

Left: 71870.443 $\pm$ 9.153 χ^2/NDF : 724468.6/40

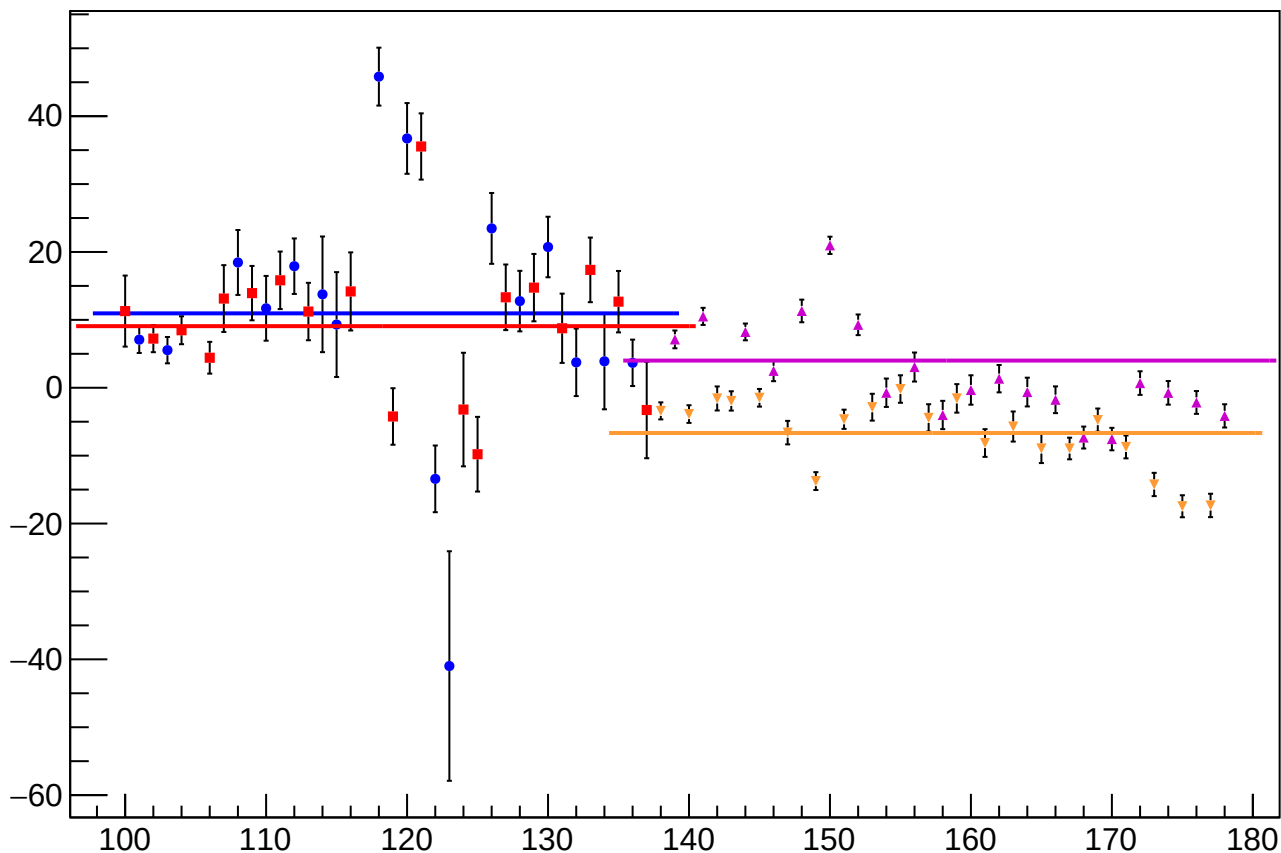
Right: 66308.894 $\pm$ 12.735 χ^2/NDF : 619646.0/35

In: 70153.265 $\pm$ 10.635 χ^2/NDF : 763391.2/36

Out: 69806.756 $\pm$ 10.392 χ^2/NDF : 705933.0/39

All: 69976.005 $\pm$ 7.433 χ^2/NDF : 1469867.3/77

diff_bpm0r03Y_mean vs Slug, Sign Corrected



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

Left Out: -6.661 ± 0.358 $\chi^2/\text{NDF}: 207.2/20$

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

Left In: 4.004 ± 0.367 $\chi^2/\text{NDF}: 439.2/19$

Left: -1.463 ± 0.256 $\chi^2/\text{NDF}: 1079.8/40$

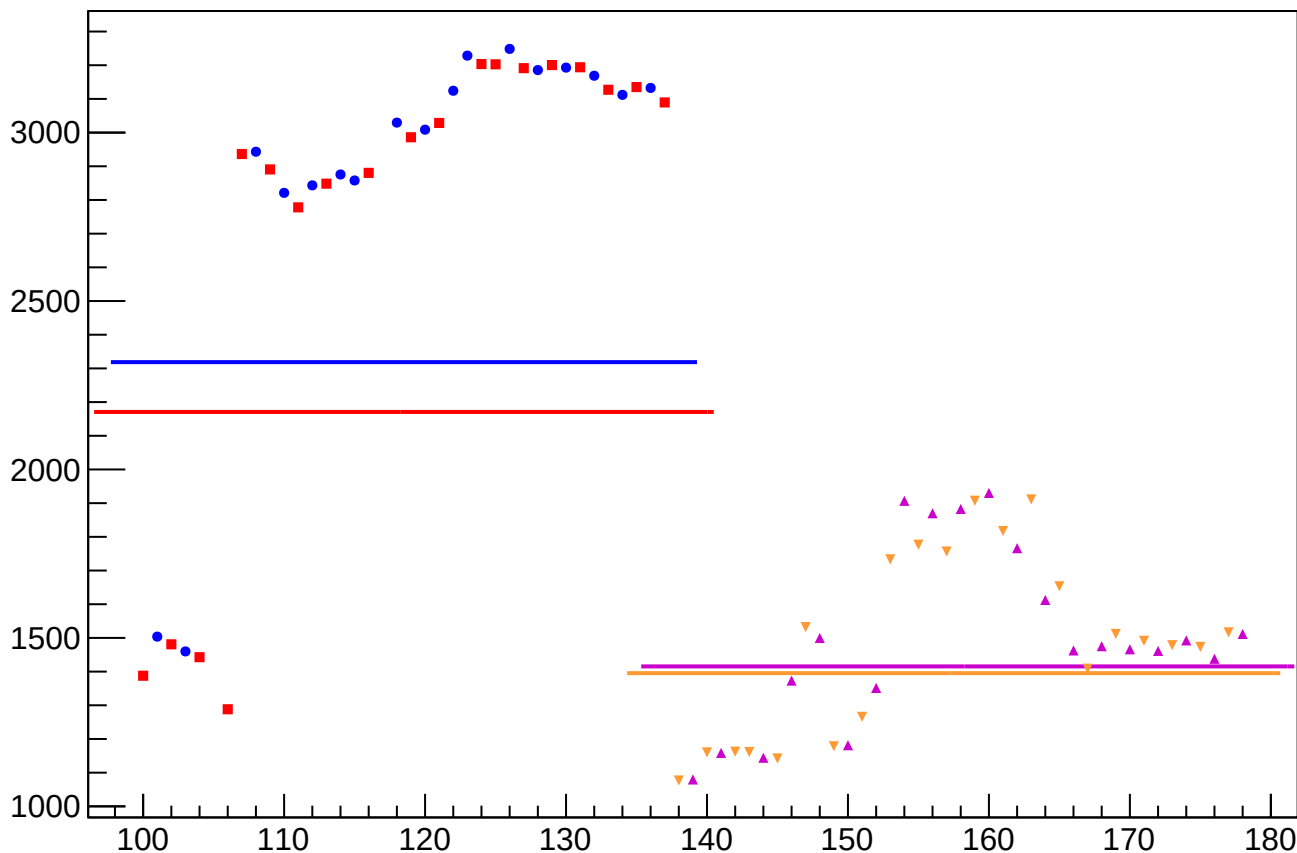
Right: 9.935 ± 0.638 $\chi^2/\text{NDF}: 236.2/35$

In: 4.917 ± 0.342 $\chi^2/\text{NDF}: 647.3/36$

Out: -4.370 ± 0.331 $\chi^2/\text{NDF}: 562.1/39$

All: 0.118 ± 0.238 $\chi^2/\text{NDF}: 1590.8/76$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2318.624 +/- 0.667 χ^2/NDF : 1408300.4/16

Left Out: 1395.380 +/- 0.253 χ^2/NDF : 1012339.1/20

Right Out: 2170.786 +/- 0.613 χ^2/NDF : 1753687.8/18

Left In: 1415.420 +/- 0.259 χ^2/NDF : 898907.6/19

Left: 1405.148 +/- 0.181 χ^2/NDF : 1914306.9/40

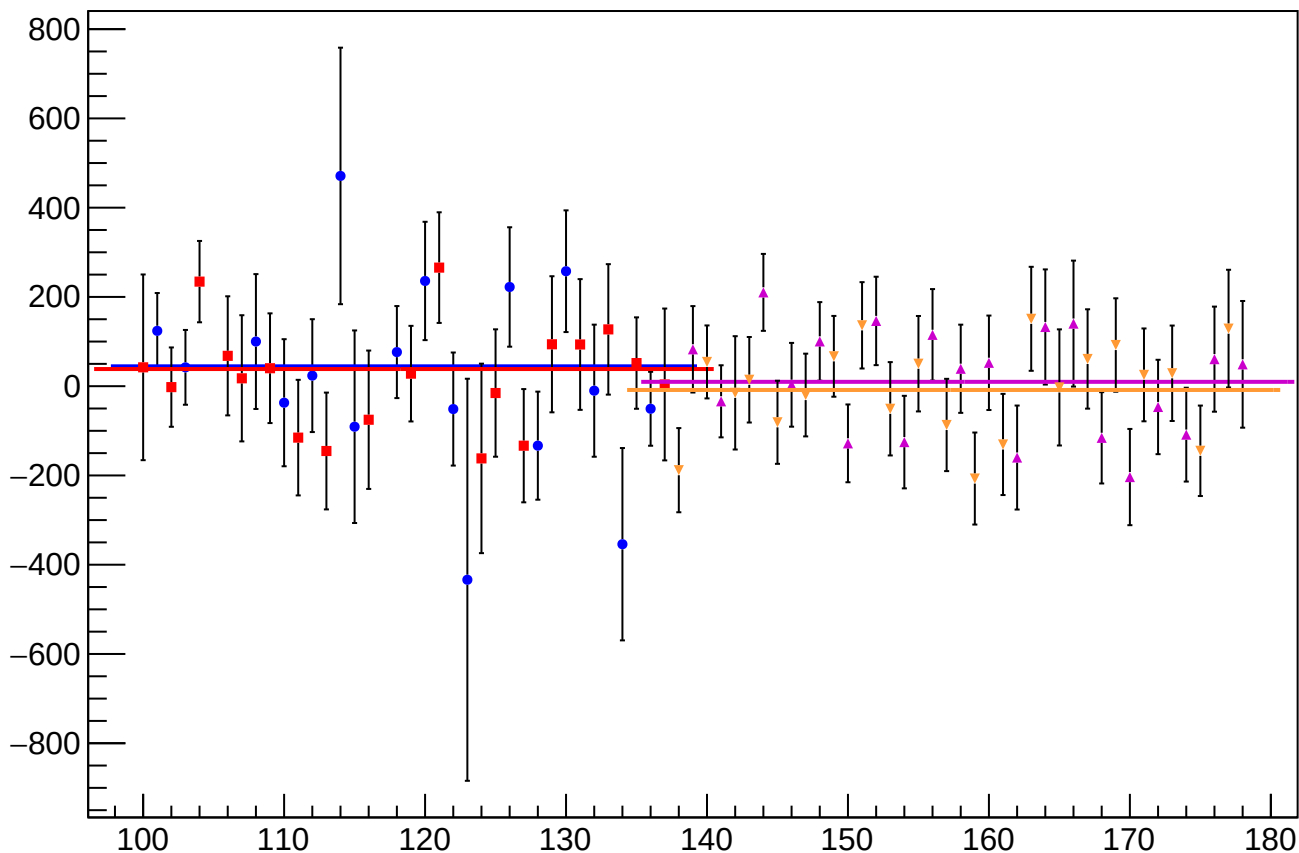
Right: 2238.439 +/- 0.451 χ^2/NDF : 3188639.4/35

In: 1534.071 +/- 0.242 χ^2/NDF : 3900319.8/36

Out: 1508.297 +/- 0.234 χ^2/NDF : 4134885.8/39

All: 1520.753 +/- 0.168 χ^2/NDF : 8041080.0/76

diff_bpm0r05X_mean vs Slug, Sign Corrected



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

Left Out: -8.472 $\pm$ 22.486 χ^2 /NDF:20.1/20

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

Left In: 9.751 $\pm$ 22.834 χ^2 /NDF:25.8/19

Left: 0.499 $\pm$ 16.022 χ^2 /NDF: 46.2/40

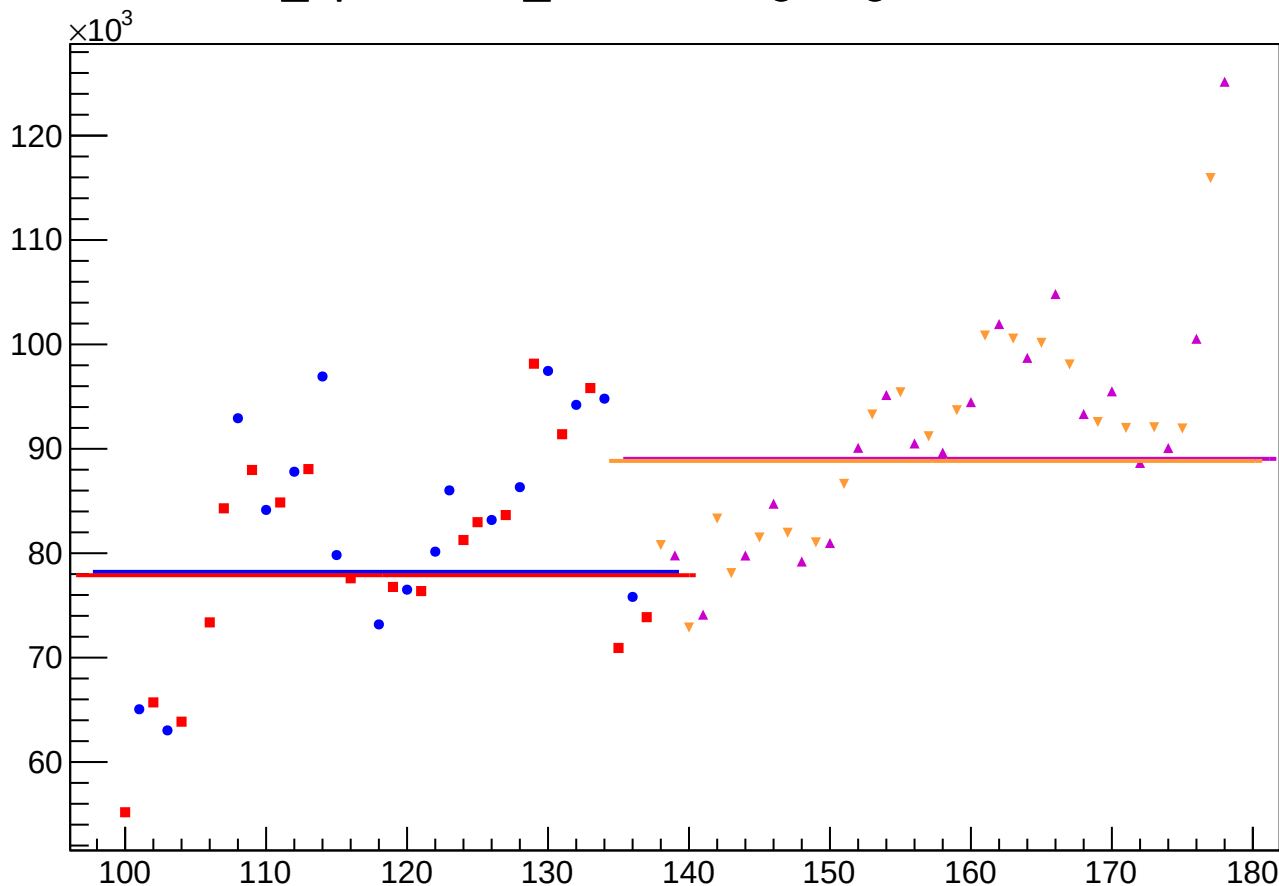
Right: 41.353 $\pm$ 21.157 χ^2 /NDF: 34.9/35

In: 22.262 $\pm$ 18.264 χ^2 /NDF:45.8/36

Out: 8.810 $\pm$ 17.869 χ^2 /NDF:37.4/39

All: 15.389 $\pm$ 12.773 χ^2 /NDF: 83.5/76

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519 χ^2/NDF : 251056.7/16

Left Out: 88842.320+/-15.900 χ^2/NDF : 339838.9/20

Right Out: 77891.938+/-20.814 χ^2/NDF : 246970.2/18

Left In: 89039.894+/-16.146 χ^2/NDF : 389222.9/19

Left: 88939.589+/-11.329 χ^2/NDF : 729137.8/40

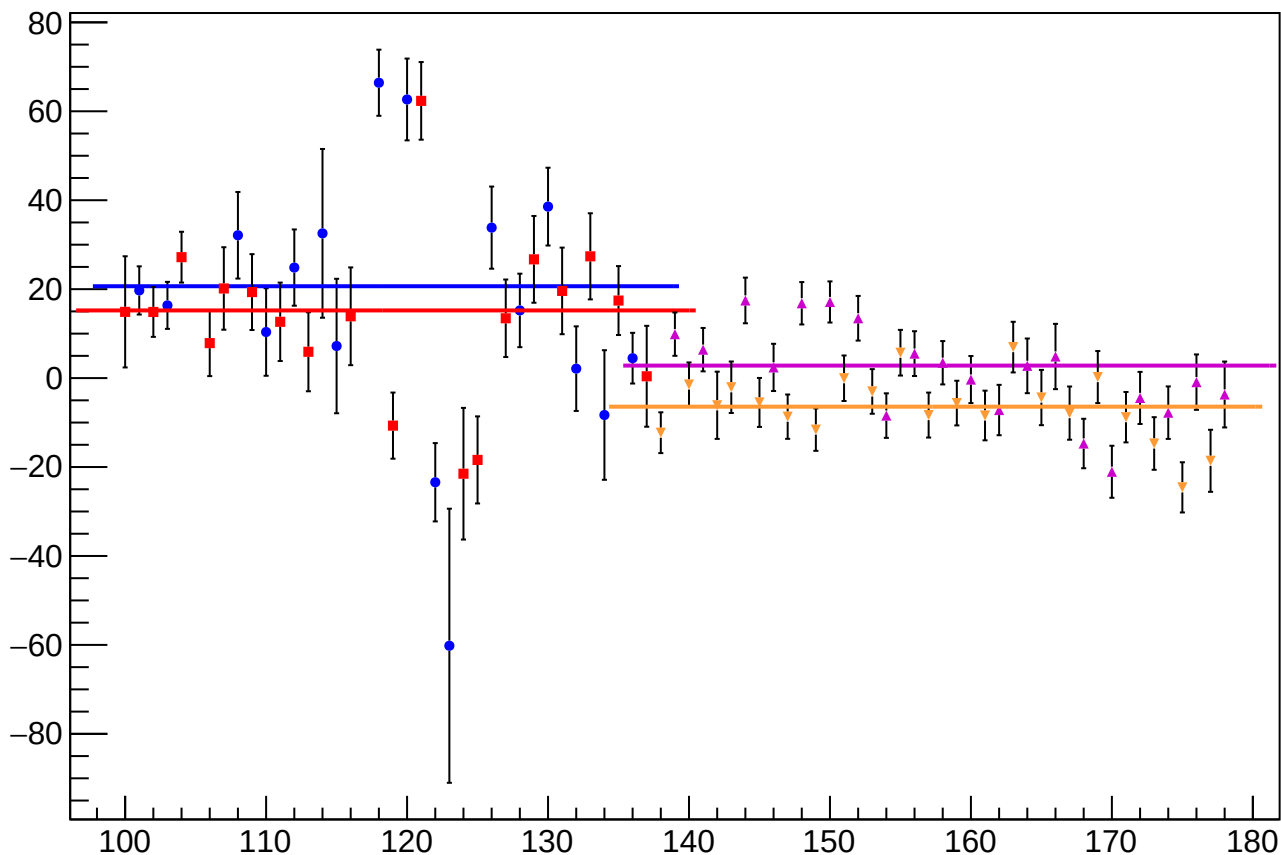
Right: 78047.137+/-14.960 χ^2/NDF : 498141.9/35

In: 85139.936+/-12.915 χ^2/NDF : 802243.4/36

Out: 84806.922+/-12.635 χ^2/NDF : 761601.3/39

All: 84969.783+/-9.032 χ^2/NDF : 1564184.5/71

diff_bpm0r05Y_mean vs Slug, Sign Corrected



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

Left Out: -6.427 ± 1.191 $\chi^2/\text{NDF}: 35.0/20$

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

Left In: 2.813 ± 1.209 $\chi^2/\text{NDF}: 74.9/19$

Left: -1.874 ± 0.848 $\chi^2/\text{NDF}: 139.5/40$

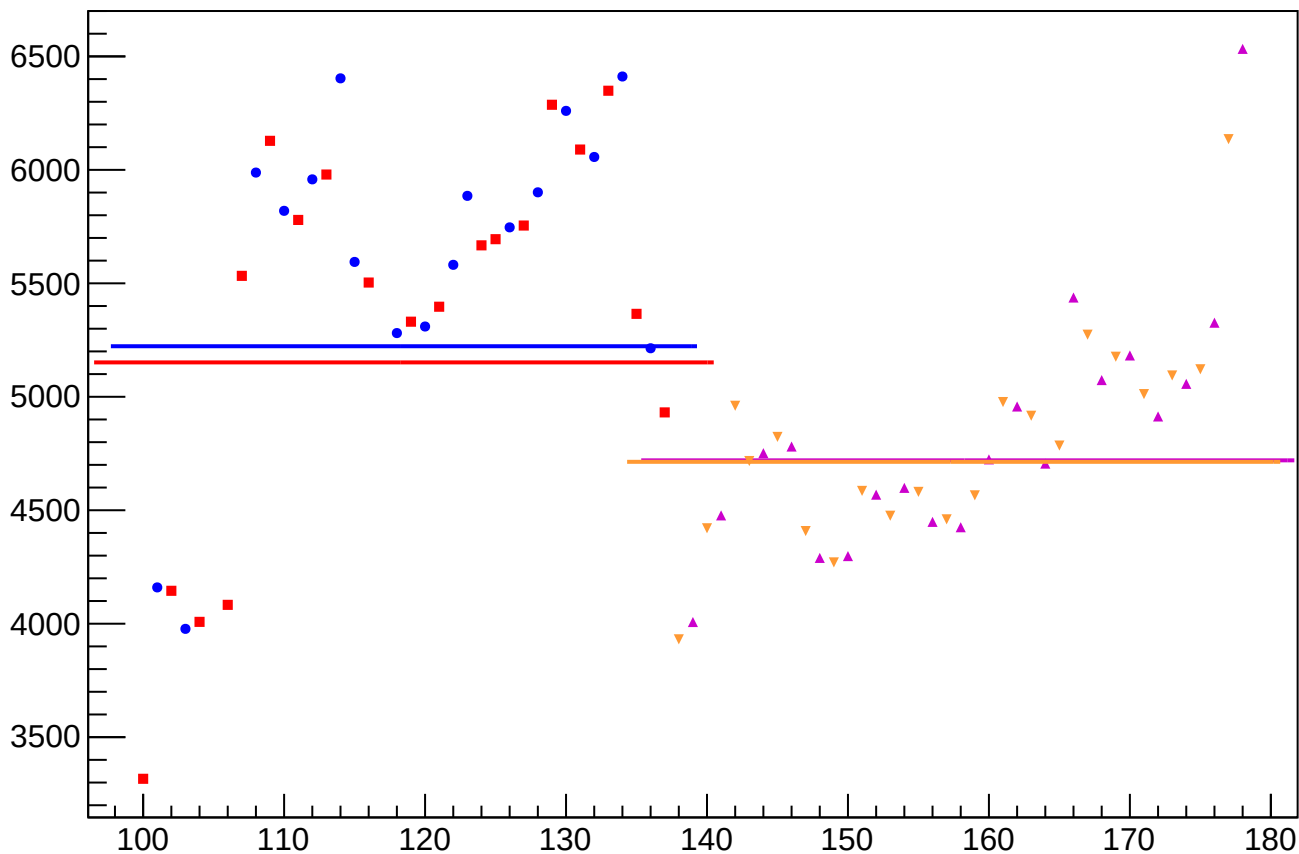
Right: 17.826 ± 1.410 $\chi^2/\text{NDF}: 192.8/35$

In: 7.462 ± 1.039 $\chi^2/\text{NDF}: 249.4/36$

Out: -0.567 ± 1.017 $\chi^2/\text{NDF}: 195.7/39$

All: 3.362 ± 0.727 $\chi^2/\text{NDF}: 475.6/76$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



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

Left Out: 4713.417 ± 0.842 $\chi^2/\text{NDF}: 251294.0/20$

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

Left In: 4719.923 ± 0.855 $\chi^2/\text{NDF}: 287785.6/19$

Left: 4716.622 ± 0.600 $\chi^2/\text{NDF}: 539109.0/40$

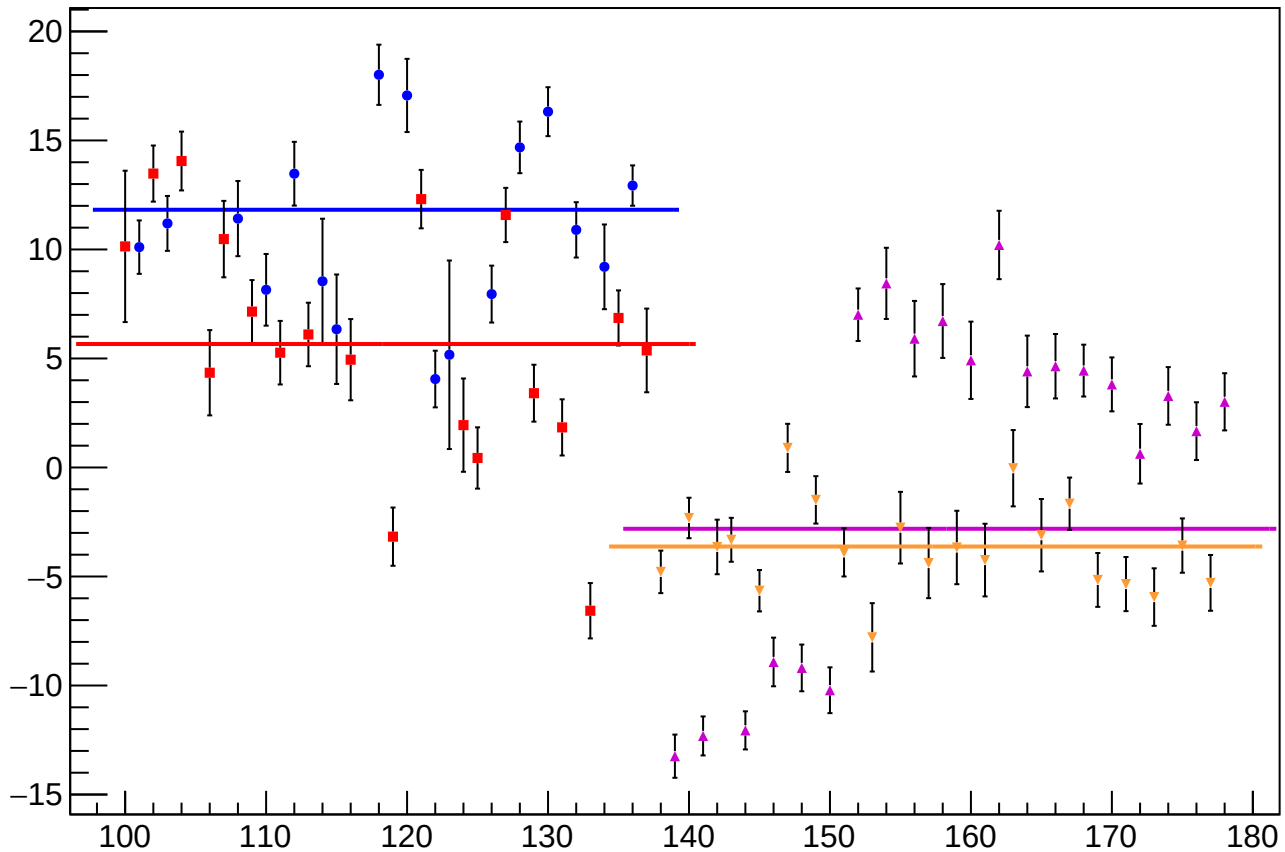
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4850.947 ± 0.735 $\chi^2/\text{NDF}: 690501.4/36$

Out: 4832.043 ± 0.719 $\chi^2/\text{NDF}: 712247.0/39$

All: 4841.292 ± 0.514 $\chi^2/\text{NDF}: 1403086.4/76$

diff_bpm2i01X_mean vs Slug, Sign Corrected



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

Left Out: -3.624 ± 0.269 $\chi^2/\text{NDF}: 51.7/20$

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -2.811 ± 0.276 $\chi^2/\text{NDF}: 879.1/19$

Left: -3.229 ± 0.193 $\chi^2/\text{NDF}: 935.3/40$

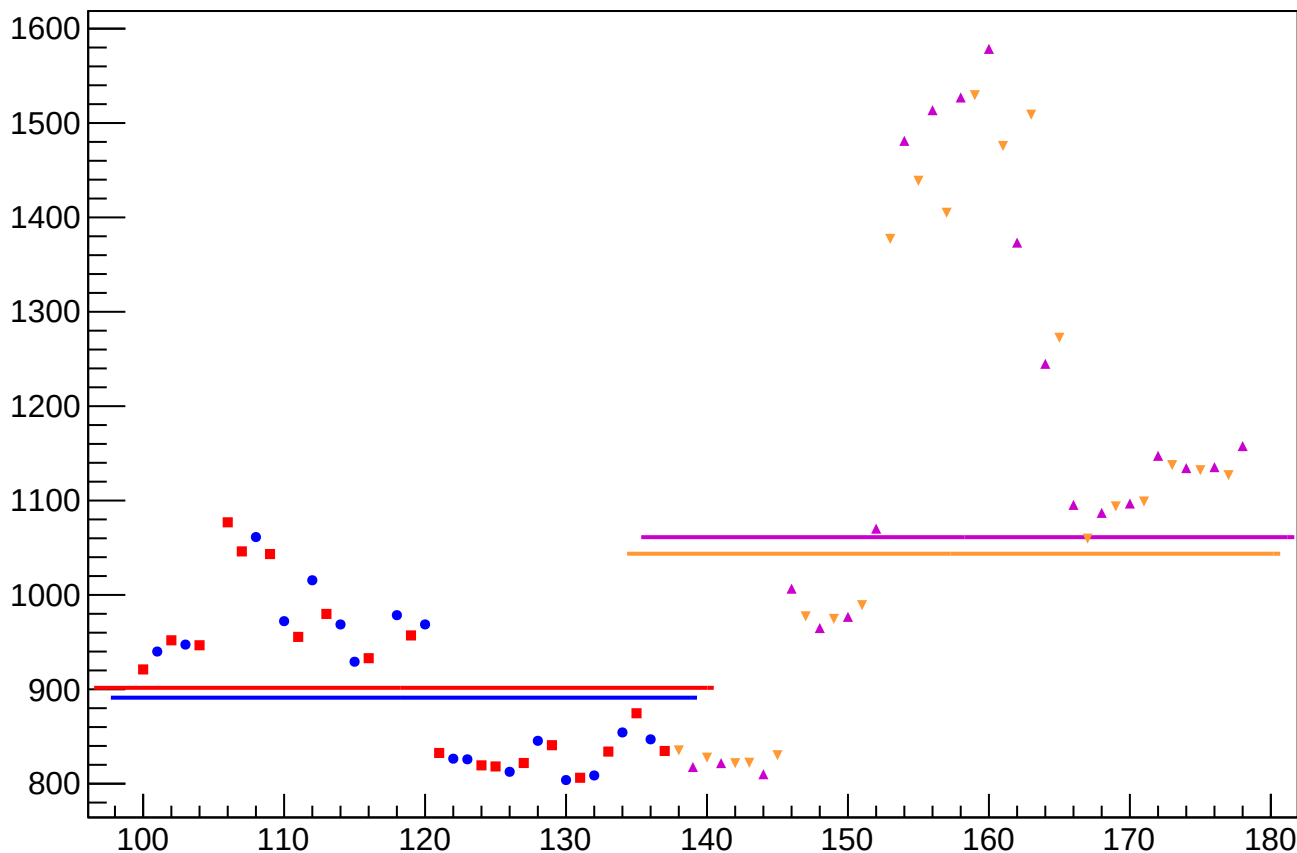
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.922 ± 0.216 $\chi^2/\text{NDF}: 2093.3/36$

Out: -0.031 ± 0.211 $\chi^2/\text{NDF}: 813.4/39$

All: 1.410 ± 0.151 $\chi^2/\text{NDF}: 3002.7/76$

diff_bpm2i01X_rms vs Slug, Sign Corrected



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

Left Out: 1043.668 $\pm$ 0.190 χ^2/NDF :1304220.3/20

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

Left In: 1061.209 $\pm$ 0.196 χ^2/NDF :1192742.5/19

Left: 1052.194 $\pm$ 0.136 χ^2/NDF : 2501099.8/40

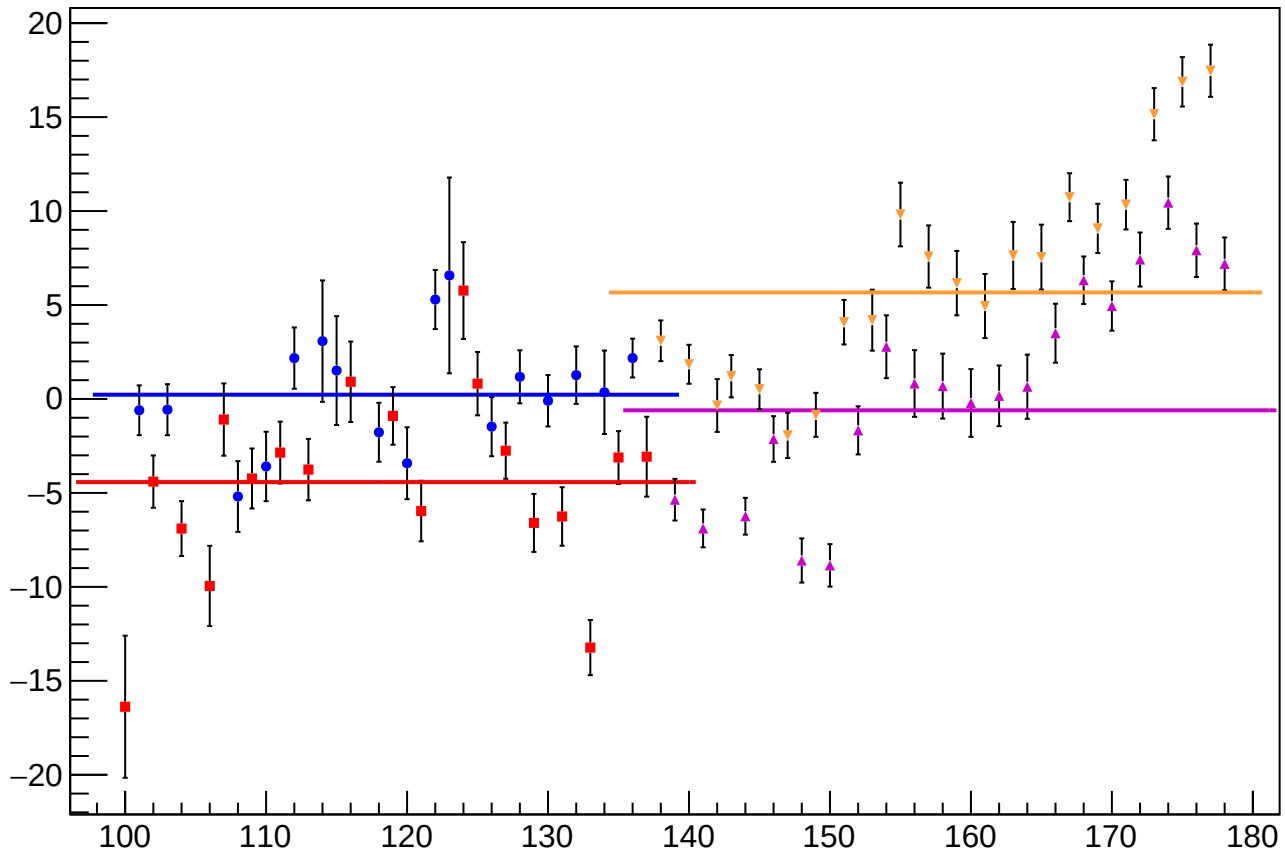
Right: 896.461 $\pm$ 0.171 χ^2/NDF : 217184.3/35

In: 994.581 $\pm$ 0.152 χ^2/NDF :1590826.5/36

Out: 988.690 $\pm$ 0.149 χ^2/NDF :1634865.6/39

All: 991.565 $\pm$ 0.107 χ^2/NDF : 3226456.2/76

diff_bpm2i01Y_mean vs Slug, Sign Corrected



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

Left Out: 5.669 ± 0.290 χ^2/NDF : 386.9/20

Right Out: -4.423 ± 0.387 χ^2/NDF : 103.3/18

Left In: -0.604 ± 0.298 χ^2/NDF : 414.0/19

Left: 2.616 ± 0.208 χ^2/NDF : 1029.0/40

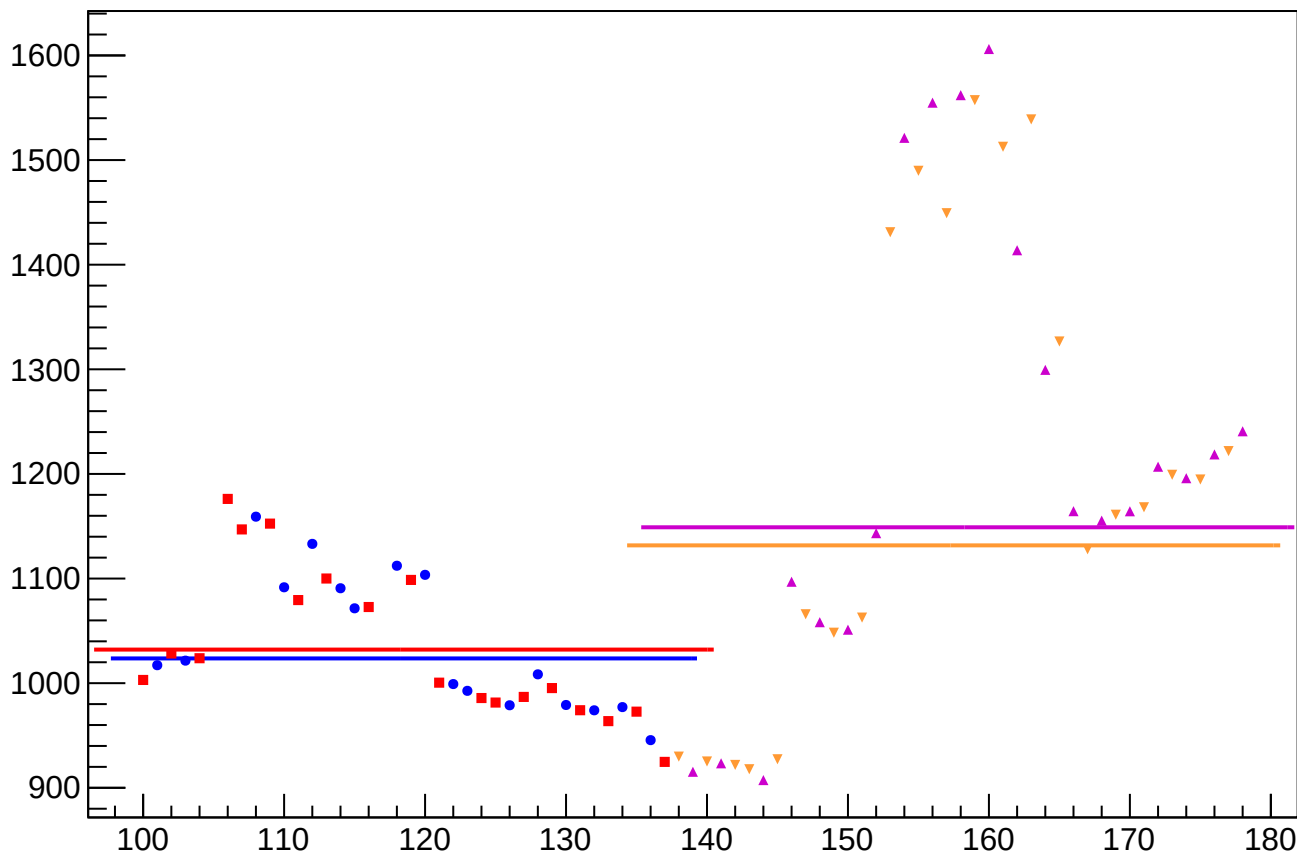
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -0.303 ± 0.238 χ^2/NDF : 455.3/36

Out: 2.041 ± 0.232 χ^2/NDF : 926.4/39

All: 0.897 ± 0.166 χ^2/NDF : 1431.5/76

diff_bpm2i01Y_rms vs Slug, Sign Corrected



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

Left Out: 1131.718 $\pm$ 0.205 χ^2 /NDF: 966751.3/20

Right Out: 1032.107 $\pm$ 0.273 χ^2 /NDF: 59391.6/18

Left In: 1149.000 $\pm$ 0.210 χ^2 /NDF: 876979.6/19

Left: 1140.129 $\pm$ 0.147 χ^2 /NDF: 1847193.9/40

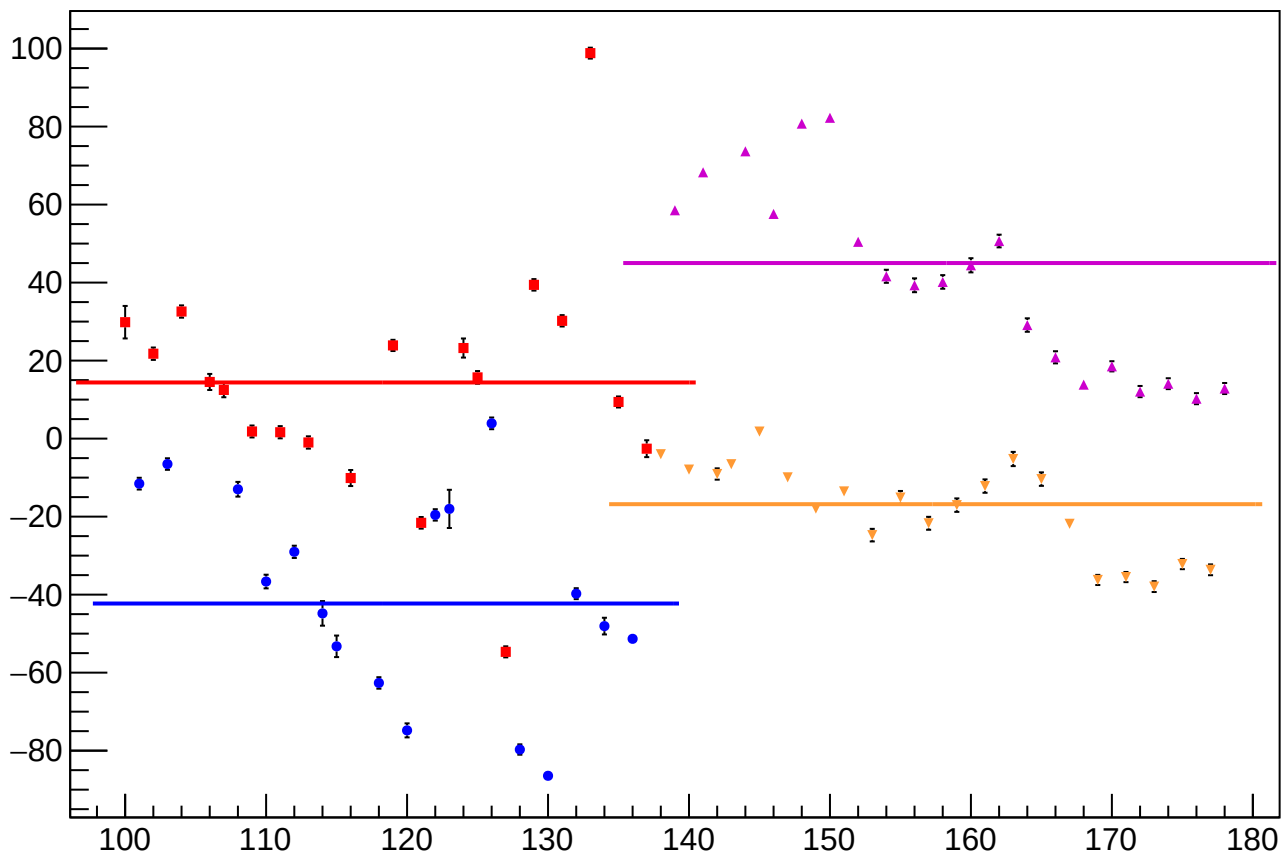
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1103.620 $\pm$ 0.168 χ^2 /NDF: 1057845.3/36

Out: 1095.902 $\pm$ 0.164 χ^2 /NDF: 1111126.5/39

All: 1099.666 $\pm$ 0.117 χ^2 /NDF: 2170052.4/76

diff_bpm2i02X_mean vs Slug, Sign Corrected



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

Left Out: -16.810 ± 0.294 $\chi^2/\text{NDF}: 1694.2/20$

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

Left In: 45.011 ± 0.303 $\chi^2/\text{NDF}: 6795.8/19$

Left: 13.166 ± 0.211 $\chi^2/\text{NDF}: 29934.0/40$

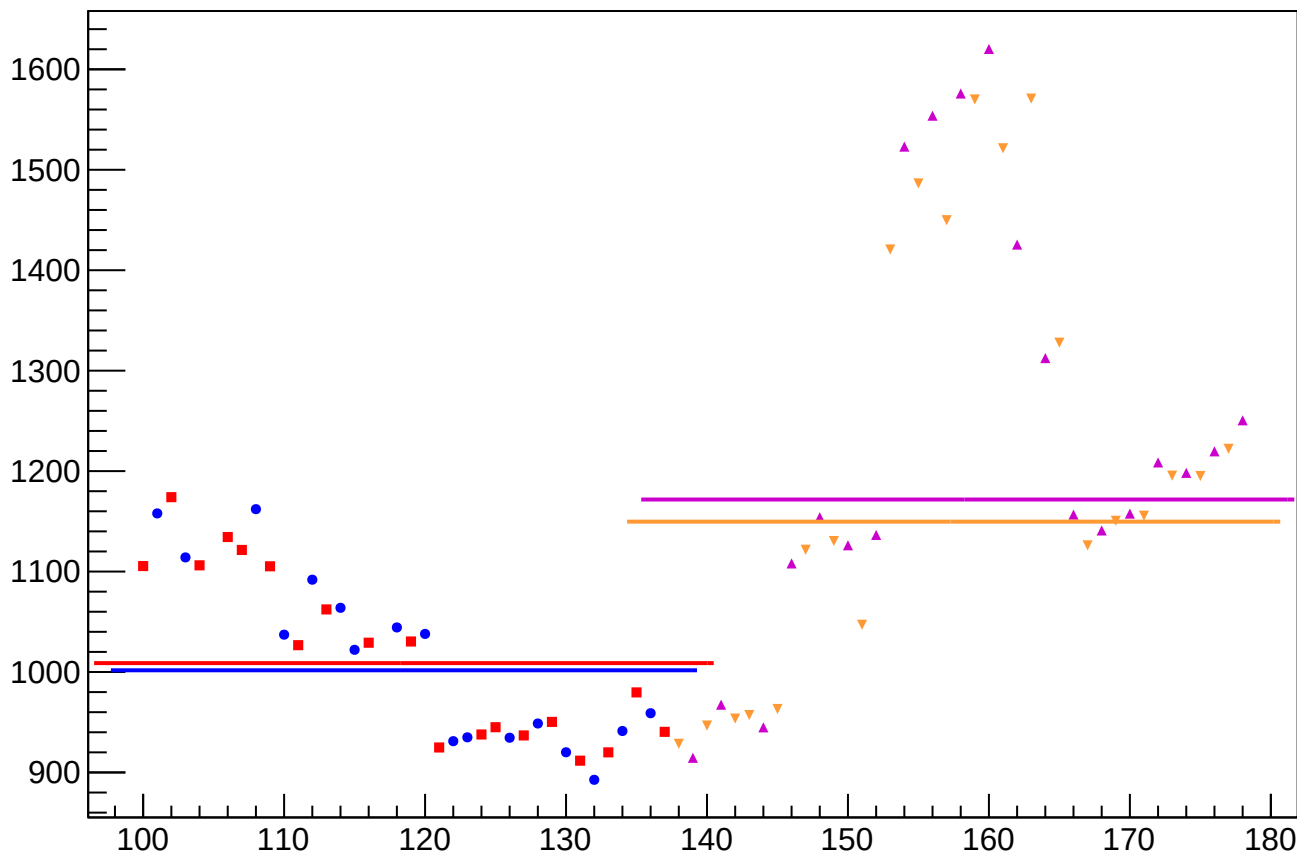
Right: -13.301 ± 0.271 $\chi^2/\text{NDF}: 23754.3/35$

In: 11.851 ± 0.239 $\chi^2/\text{NDF}: 43450.7/36$

Out: -5.068 ± 0.232 $\chi^2/\text{NDF}: 13603.6/39$

All: 3.160 ± 0.166 $\chi^2/\text{NDF}: 59637.2/76$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706+/-0.274 χ^2/NDF : 95480.0/16

Left Out: 1149.690+/-0.208 χ^2/NDF : 873192.4/20

Right Out: 1008.848+/-0.268 χ^2/NDF : 95349.9/18

Left In: 1171.723+/-0.214 χ^2/NDF : 775265.2/19

Left: 1160.374+/-0.149 χ^2/NDF : 1653905.2/40

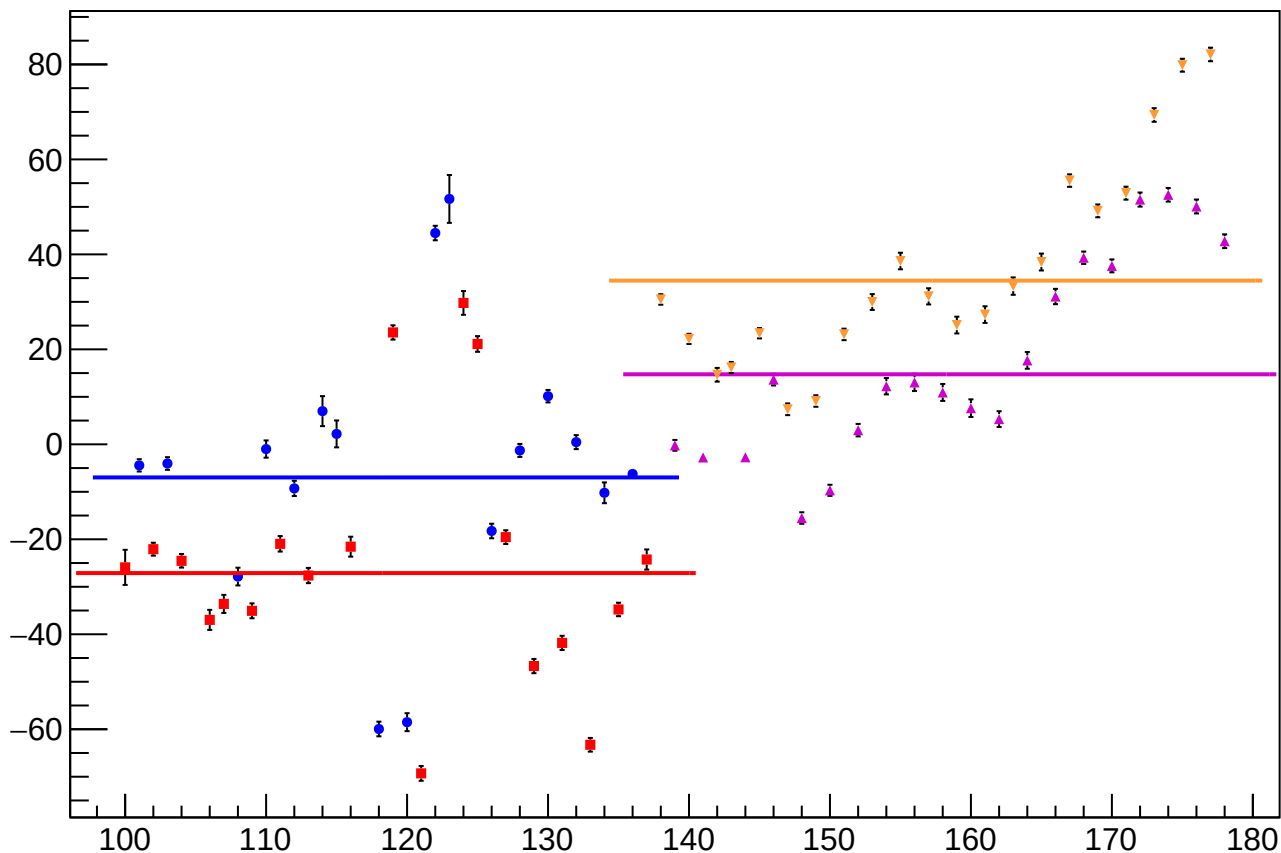
Right: 1005.358+/-0.191 χ^2/NDF : 191177.9/35

In: 1107.136+/-0.169 χ^2/NDF : 1109958.2/36

Out: 1096.691+/-0.164 χ^2/NDF : 1141295.4/39

All: 1101.770+/-0.118 χ^2/NDF : 2253222.4/76

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 34.481 ± 0.298 χ^2/NDF : 5126.2/20

Right Out: -27.116 ± 0.380 χ^2/NDF : 4283.5/18

Left In: 14.741 ± 0.307 χ^2/NDF : 4951.3/19

Left: 24.877 ± 0.214 χ^2/NDF : 12206.1/40

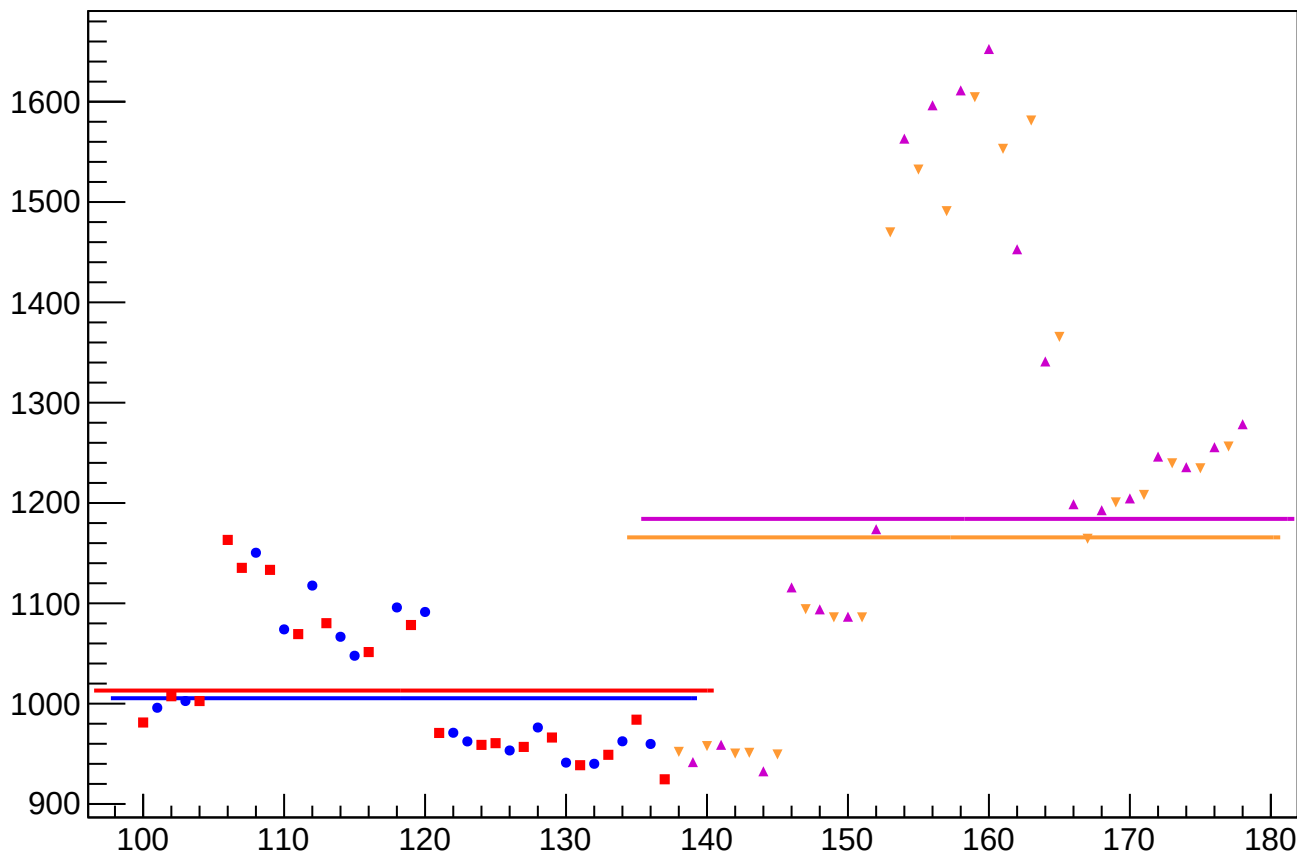
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: 6.393 ± 0.241 χ^2/NDF : 10516.7/36

Out: 10.952 ± 0.235 χ^2/NDF : 25682.9/39

All: 8.729 ± 0.168 χ^2/NDF : 36383.7/76

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2 /NDF: 54586.0/16

Left Out: 1165.745 $\pm$ 0.211 χ^2 /NDF:964023.8/20

Right Out: 1013.064 $\pm$ 0.268 χ^2 /NDF: 63265.7/18

Left In: 1184.171 $\pm$ 0.217 χ^2 /NDF:869905.7/19

Left: 1174.710 $\pm$ 0.151 χ^2 /NDF: 1837638.6/40

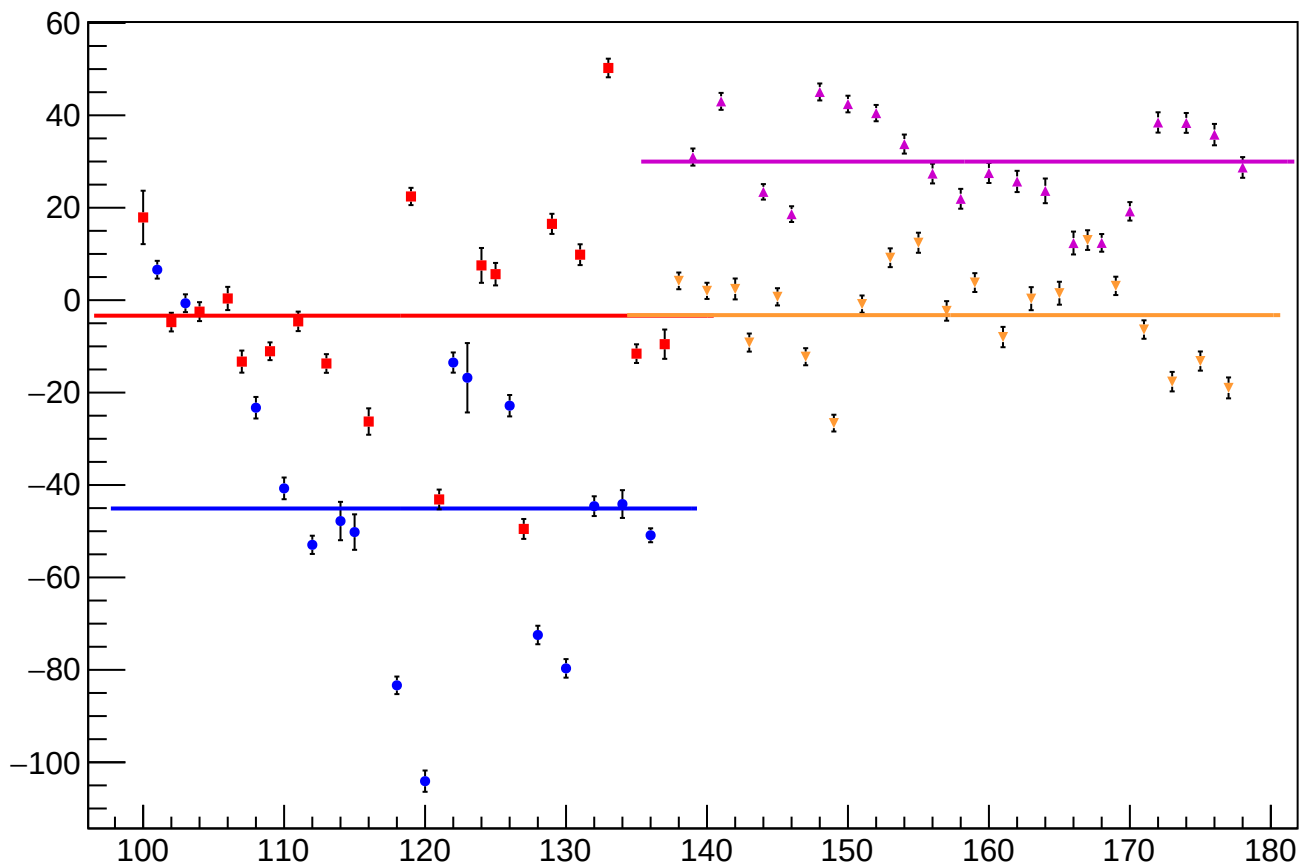
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

In: 1115.448 $\pm$ 0.170 χ^2 /NDF:1185880.2/36

Out: 1107.423 $\pm$ 0.166 χ^2 /NDF:1227260.7/39

All: 1111.335 $\pm$ 0.119 χ^2 /NDF: 2414281.9/76

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081±/0.540 χ^2/NDF : 3238.1/16

Left Out: -3.239±/0.443 χ^2/NDF :537.5/20

Right Out: -3.358±/0.522 χ^2/NDF : 2005.7/18

Left In: 29.984±/0.450 χ^2/NDF :491.7/19

Left: 13.104±/0.316 χ^2/NDF : 3792.6/40

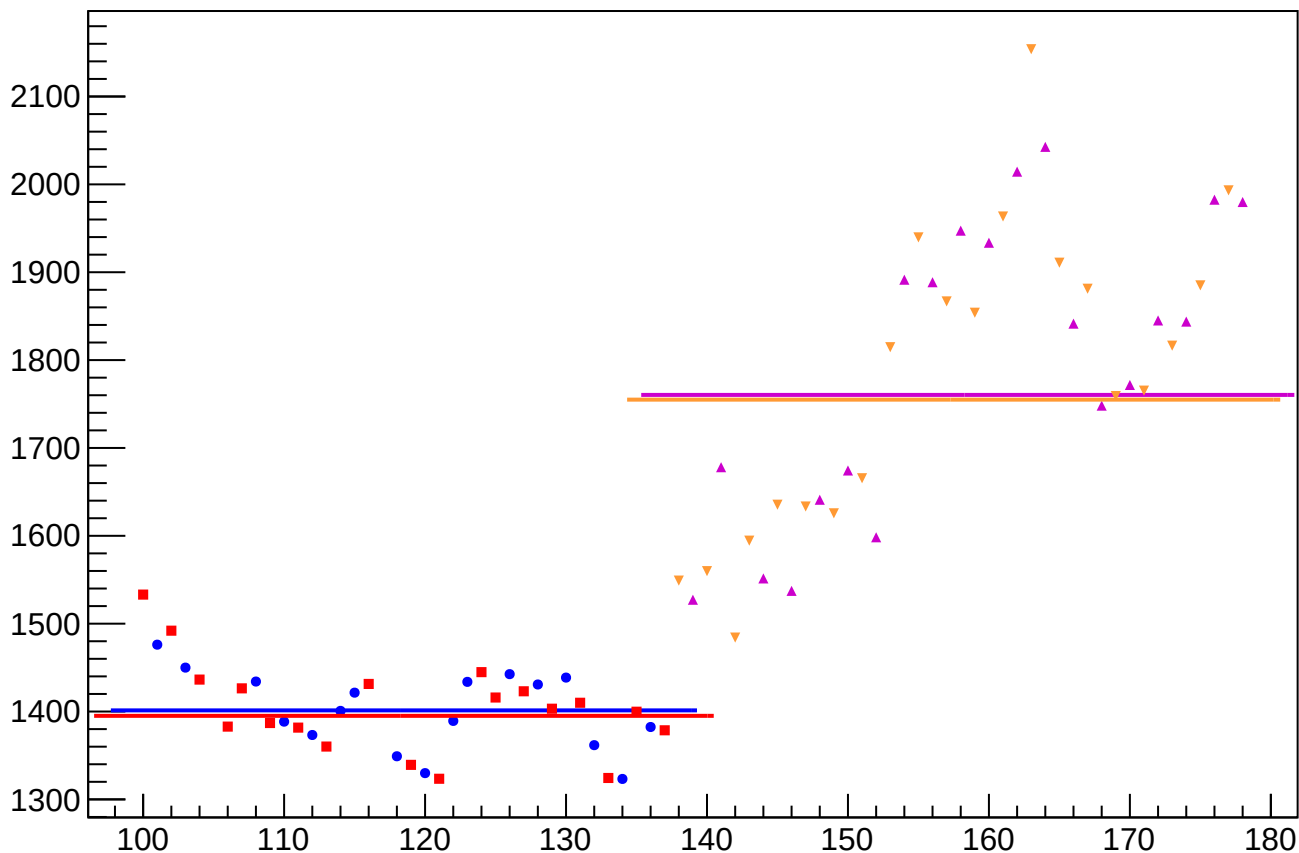
Right: -23.517±/0.375 χ^2/NDF : 8332.8/35

In: -0.840±/0.346 χ^2/NDF :15131.2/36

Out: -3.288±/0.338 χ^2/NDF :2543.2/39

All: -2.093±/0.242 χ^2/NDF : 17700.1/76

diff_bpm0i02X_rms vs Slug, Sign Corrected



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

Left Out: 1754.991 $\pm$ 0.313 χ^2 /NDF: 267077.2/20

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

Left In: 1760.374 $\pm$ 0.319 χ^2 /NDF: 266896.2/19

Left: 1757.639 $\pm$ 0.223 χ^2 /NDF: 534118.5/40

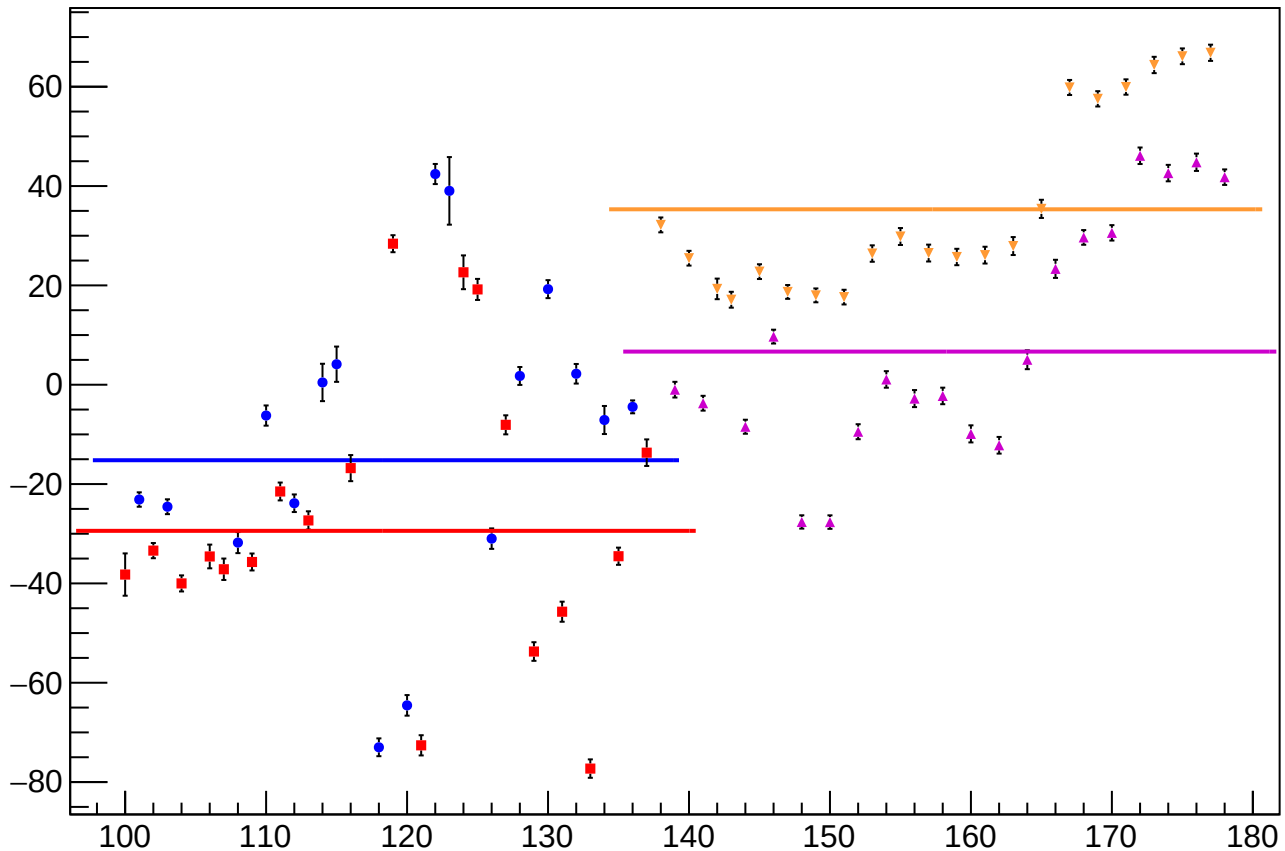
Right: 1398.102 $\pm$ 0.265 χ^2 /NDF: 28508.5/35

In: 1612.927 $\pm$ 0.245 χ^2 /NDF: 801502.6/36

Out: 1604.151 $\pm$ 0.239 χ^2 /NDF: 835190.8/39

All: 1608.436 $\pm$ 0.171 χ^2 /NDF: 1637352.4/76

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 35.319 ± 0.348 χ^2/NDF : 2679.4/20

Right Out: -29.418 ± 0.456 χ^2/NDF : 3544.8/18

Left In: 6.670 ± 0.352 χ^2/NDF : 4463.0/19

Left: 21.155 ± 0.248 χ^2/NDF : 10490.4/40

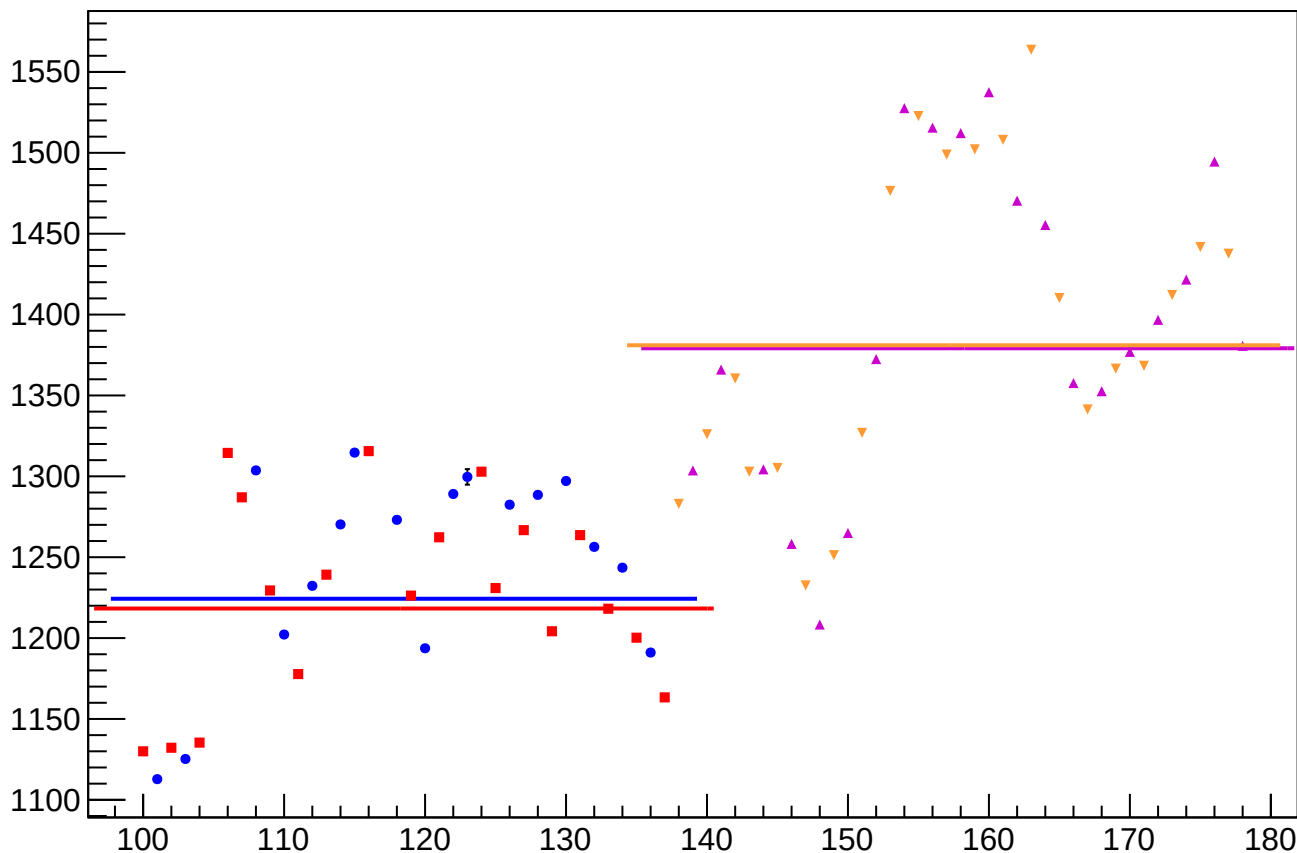
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -1.146 ± 0.282 χ^2/NDF : 9204.8/36

Out: 11.493 ± 0.277 χ^2/NDF : 18950.3/39

All: 5.297 ± 0.198 χ^2/NDF : 29177.5/76

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1381.029+/-0.246 χ^2/NDF : 144937.7/20

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1379.175+/-0.249 χ^2/NDF : 150606.2/19

Left: 1380.112+/-0.175 χ^2/NDF : 295572.0/40

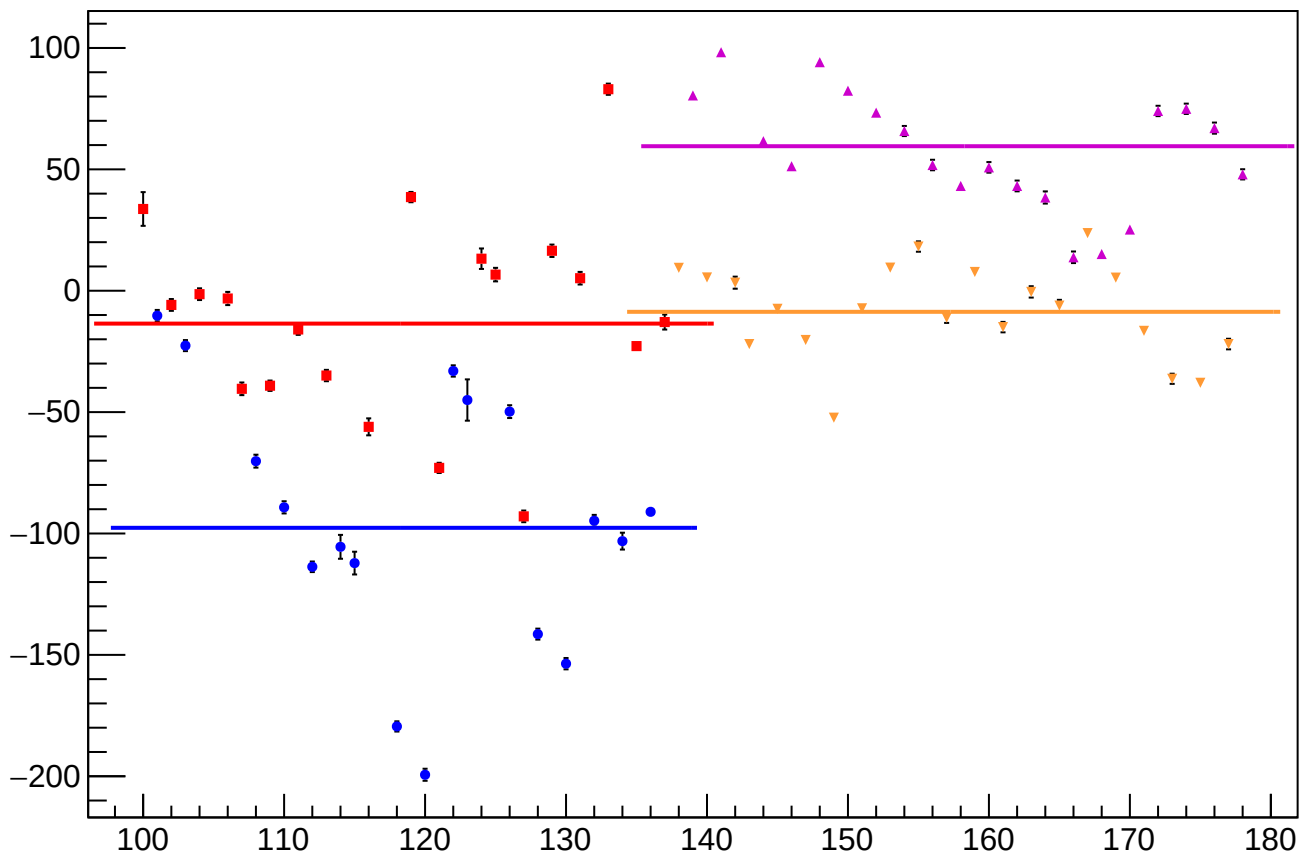
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1323.835+/-0.200 χ^2/NDF : 327662.2/36

Out: 1321.128+/-0.196 χ^2/NDF : 333382.6/39

All: 1322.455+/-0.140 χ^2/NDF : 661138.6/76

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -8.684 ± 0.440 χ^2/NDF : 1911.8/20

Right Out: -13.538 ± 0.579 χ^2/NDF : 5128.2/18

Left In: 59.532 ± 0.448 χ^2/NDF : 2769.3/19

Left: 24.796 ± 0.314 χ^2/NDF : 16480.7/40

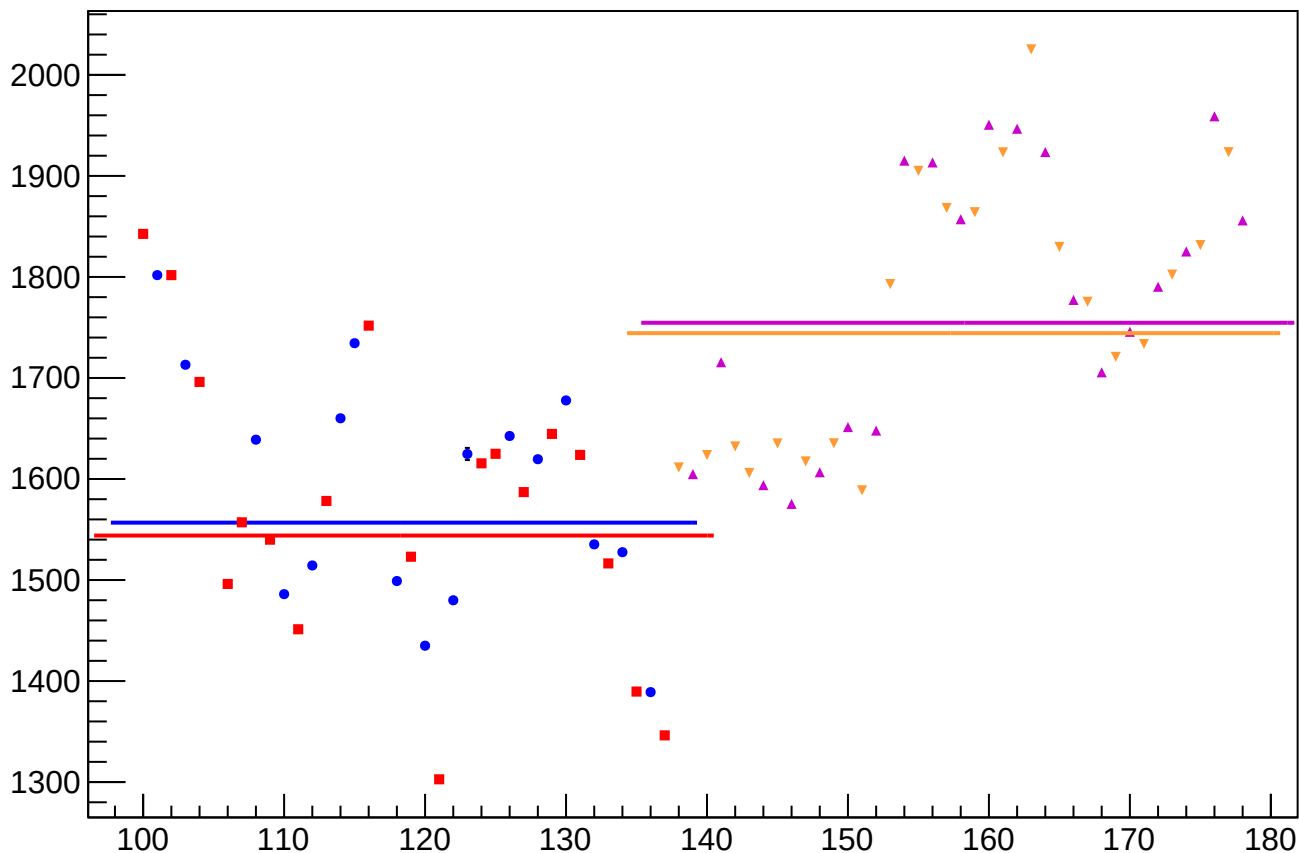
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: 3.404 ± 0.359 χ^2/NDF : 54639.5/36

Out: -10.459 ± 0.350 χ^2/NDF : 7084.5/39

All: -3.703 ± 0.251 χ^2/NDF : 62487.0/76

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 +/- 0.425 χ^2/NDF : 81549.2/16

Left Out: 1744.361 +/- 0.311 χ^2/NDF : 162507.5/20

Right Out: 1544.034 +/- 0.410 χ^2/NDF : 100501.7/18

Left In: 1754.636 +/- 0.317 χ^2/NDF : 171305.3/19

Left: 1749.404 +/- 0.222 χ^2/NDF : 334348.2/40

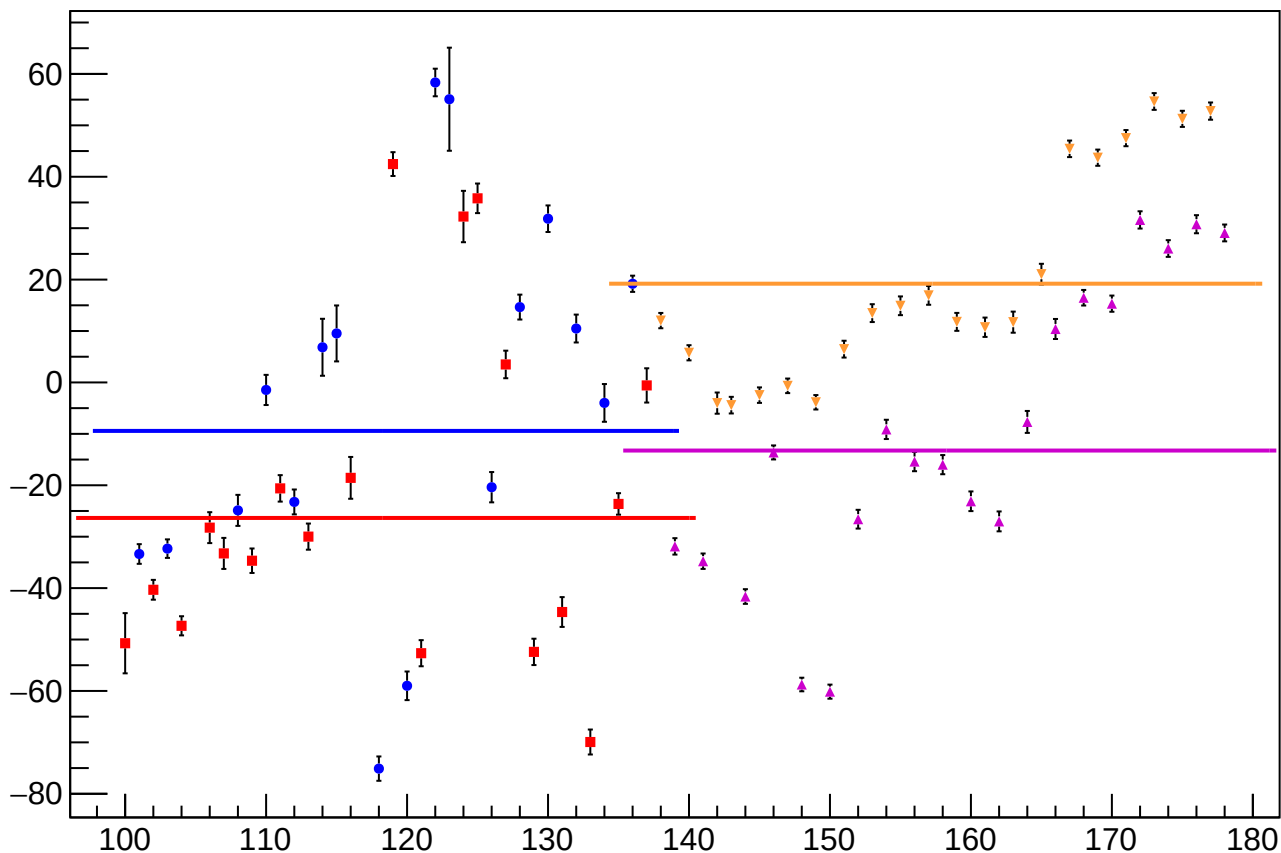
Right: 1550.179 +/- 0.295 χ^2/NDF : 182518.3/35

In: 1683.993 +/- 0.254 χ^2/NDF : 392039.6/36

Out: 1671.095 +/- 0.248 χ^2/NDF : 414667.6/39

All: 1677.382 +/- 0.177 χ^2/NDF : 808028.1/76

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 χ^2/NDF : 2924.1/16

Left Out: 19.204 ± 0.360 χ^2/NDF : 3377.2/20

Right Out: -26.354 ± 0.603 χ^2/NDF : 2472.1/18

Left In: -13.246 ± 0.367 χ^2/NDF : 6695.6/19

Left: 3.288 ± 0.257 χ^2/NDF : 14054.9/40

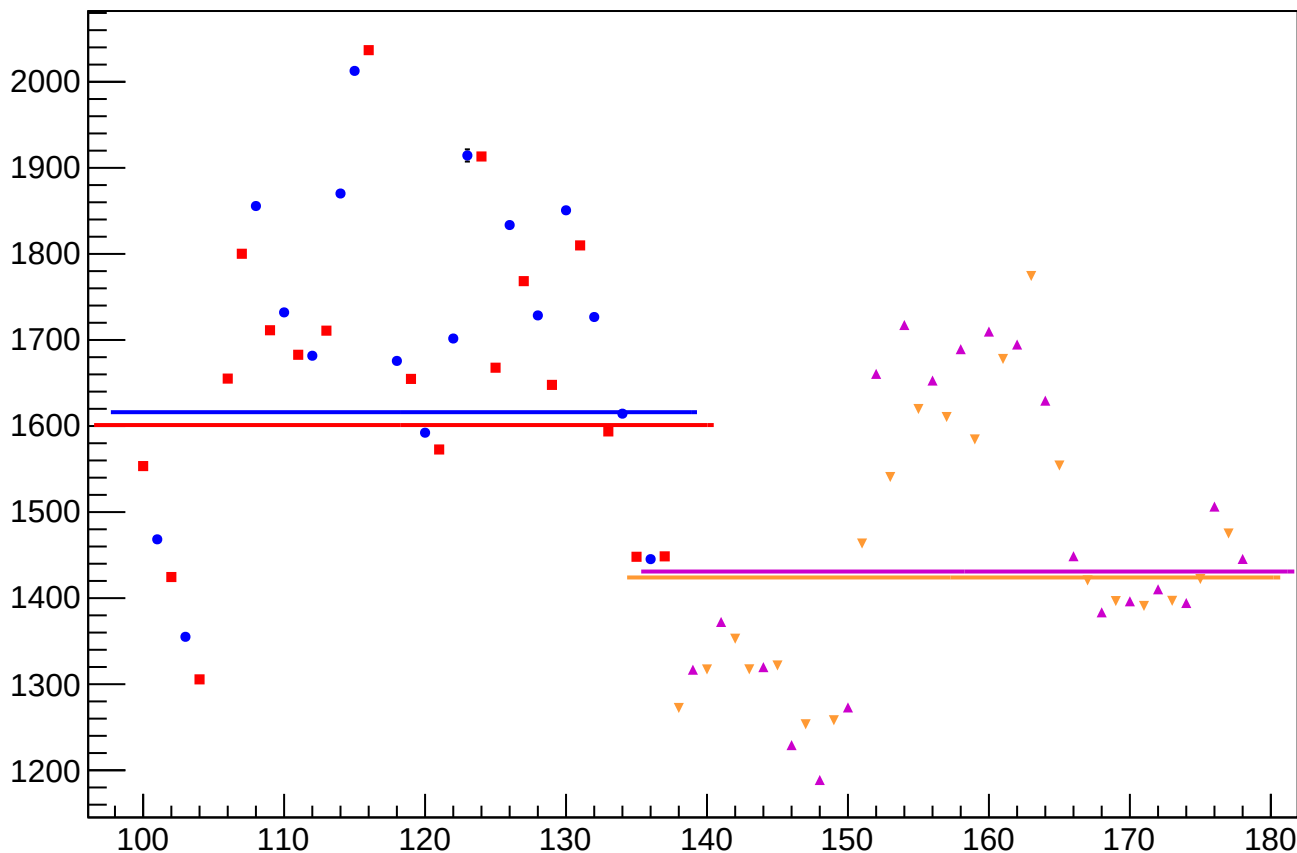
Right: -18.216 ± 0.434 χ^2/NDF : 5775.3/35

In: -12.270 ± 0.317 χ^2/NDF : 9647.4/36

Out: 7.220 ± 0.309 χ^2/NDF : 10058.8/39

All: -2.290 ± 0.221 χ^2/NDF : 21645.4/76

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094+/-0.443 χ^2/NDF : 149596.3/16

Left Out: 1424.026+/-0.255 χ^2/NDF : 286535.7/20

Right Out: 1601.134+/-0.426 χ^2/NDF : 153651.5/18

Left In: 1430.938+/-0.260 χ^2/NDF : 413081.3/19

Left: 1427.416+/-0.182 χ^2/NDF : 699978.3/40

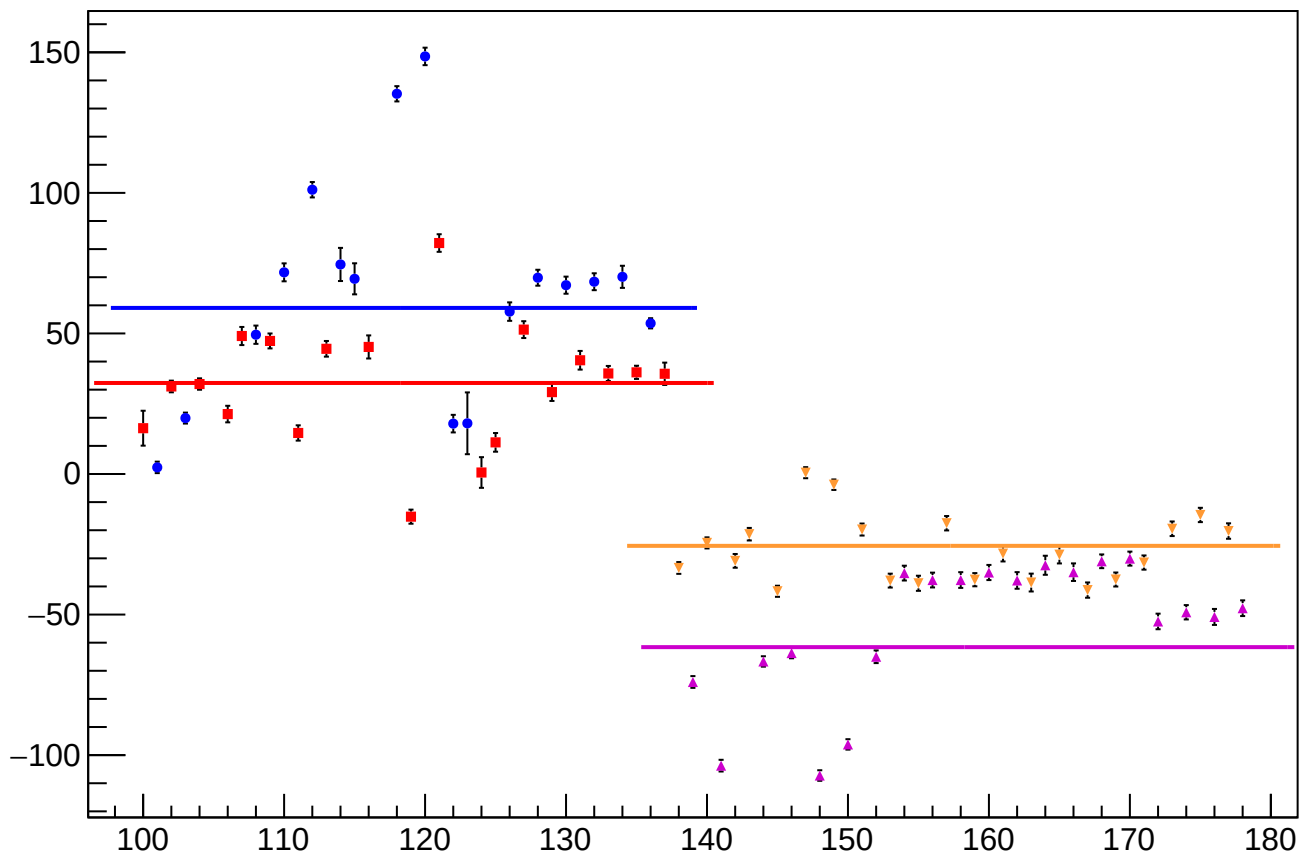
Right: 1608.326+/-0.307 χ^2/NDF : 303840.0/35

In: 1478.260+/-0.224 χ^2/NDF : 692737.2/36

Out: 1470.614+/-0.219 χ^2/NDF : 567423.6/39

All: 1474.345+/-0.156 χ^2/NDF : 1260757.8/76

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -25.556 ± 0.518 χ^2/NDF : 601.3/20

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -61.586 ± 0.532 χ^2/NDF : 2348.3/19

Left: -43.092 ± 0.371 χ^2/NDF : 5303.1/40

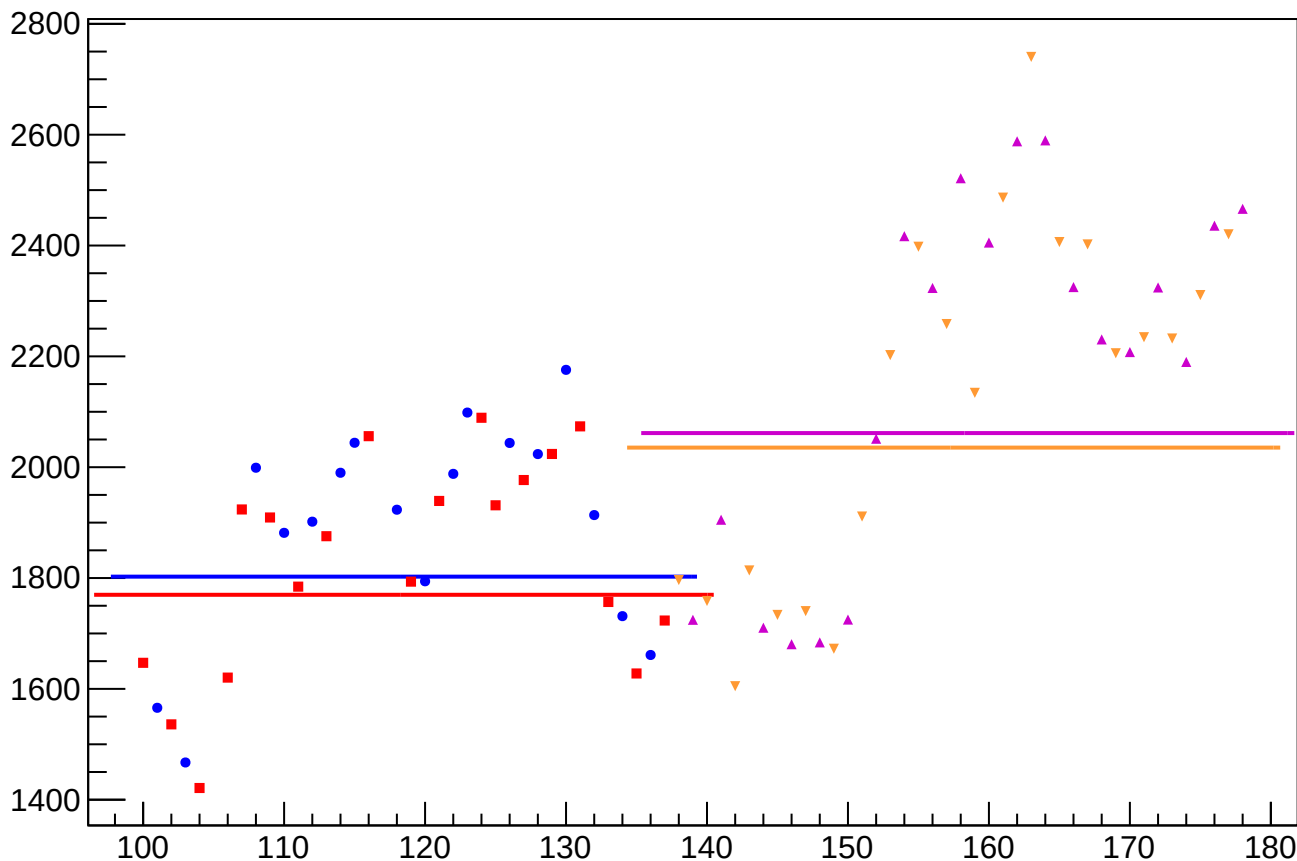
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -17.353 ± 0.423 χ^2/NDF : 24493.8/36

Out: -3.729 ± 0.409 χ^2/NDF : 6202.9/39

All: -10.305 ± 0.294 χ^2/NDF : 31232.0/76

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524+/-0.495 χ^2/NDF : 184069.0/16

Left Out: 2035.369+/-0.366 χ^2/NDF : 696268.9/20

Right Out: 1769.772+/-0.471 χ^2/NDF : 177893.4/18

Left In: 2061.583+/-0.376 χ^2/NDF : 751106.3/19

Left: 2048.128+/-0.262 χ^2/NDF : 1449866.7/40

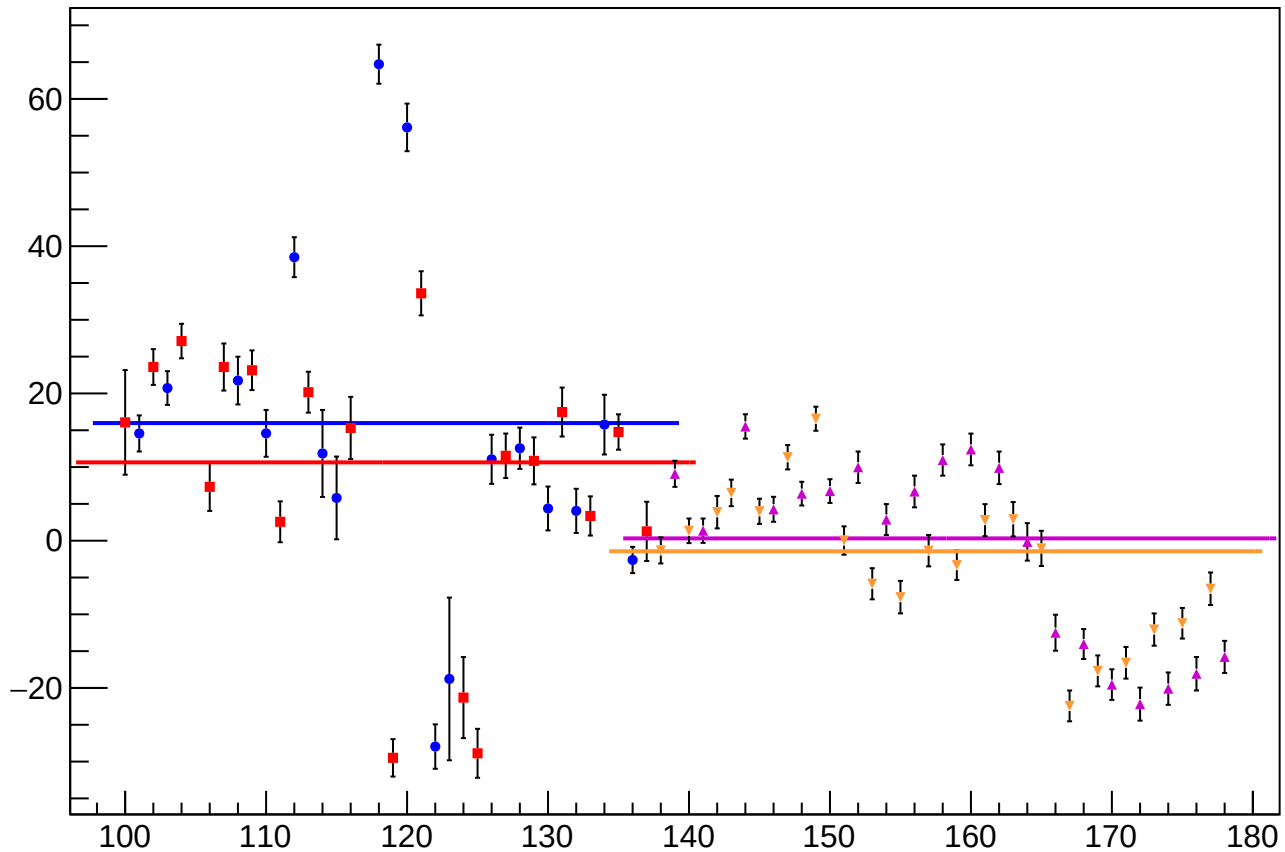
Right: 1785.358+/-0.341 χ^2/NDF : 364260.7/35

In: 1966.621+/-0.299 χ^2/NDF : 1108956.2/36

Out: 1935.314+/-0.289 χ^2/NDF : 1072124.0/39

All: 1950.425+/-0.208 χ^2/NDF : 2186734.4/76

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 $\pm$ 0.722 χ^2/NDF : 938.4/16

Left Out: -1.438 $\pm$ 0.433 χ^2/NDF : 500.9/20

Right Out: 10.638 $\pm$ 0.693 χ^2/NDF : 642.1/18

Left In: 0.312 $\pm$ 0.444 χ^2/NDF : 725.6/19

Left: -0.584 $\pm$ 0.310 χ^2/NDF : 1234.5/40

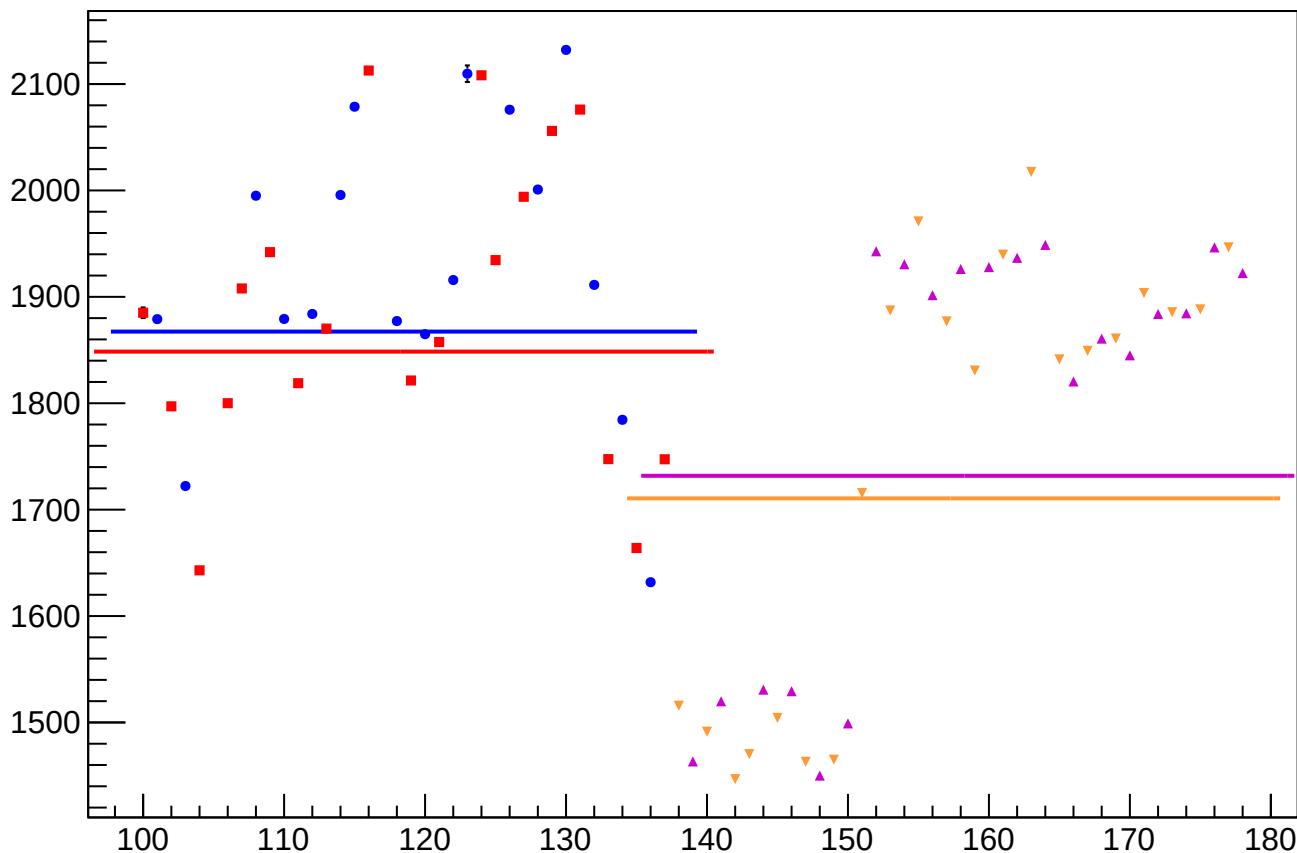
Right: 13.200 $\pm$ 0.500 χ^2/NDF : 1608.9/35

In: 4.614 $\pm$ 0.378 χ^2/NDF : 2005.8/36

Out: 1.955 $\pm$ 0.368 χ^2/NDF : 1361.1/39

All: 3.247 $\pm$ 0.264 χ^2/NDF : 3392.3/76

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 ± 0.510 $\chi^2/\text{NDF}: 80926.4/16$

Left Out: 1710.589 ± 0.306 $\chi^2/\text{NDF}: 450930.9/20$

Right Out: 1848.532 ± 0.490 $\chi^2/\text{NDF}: 72527.3/18$

Left In: 1731.819 ± 0.314 $\chi^2/\text{NDF}: 422807.3/19$

Left: 1720.948 ± 0.219 $\chi^2/\text{NDF}: 876079.2/40$

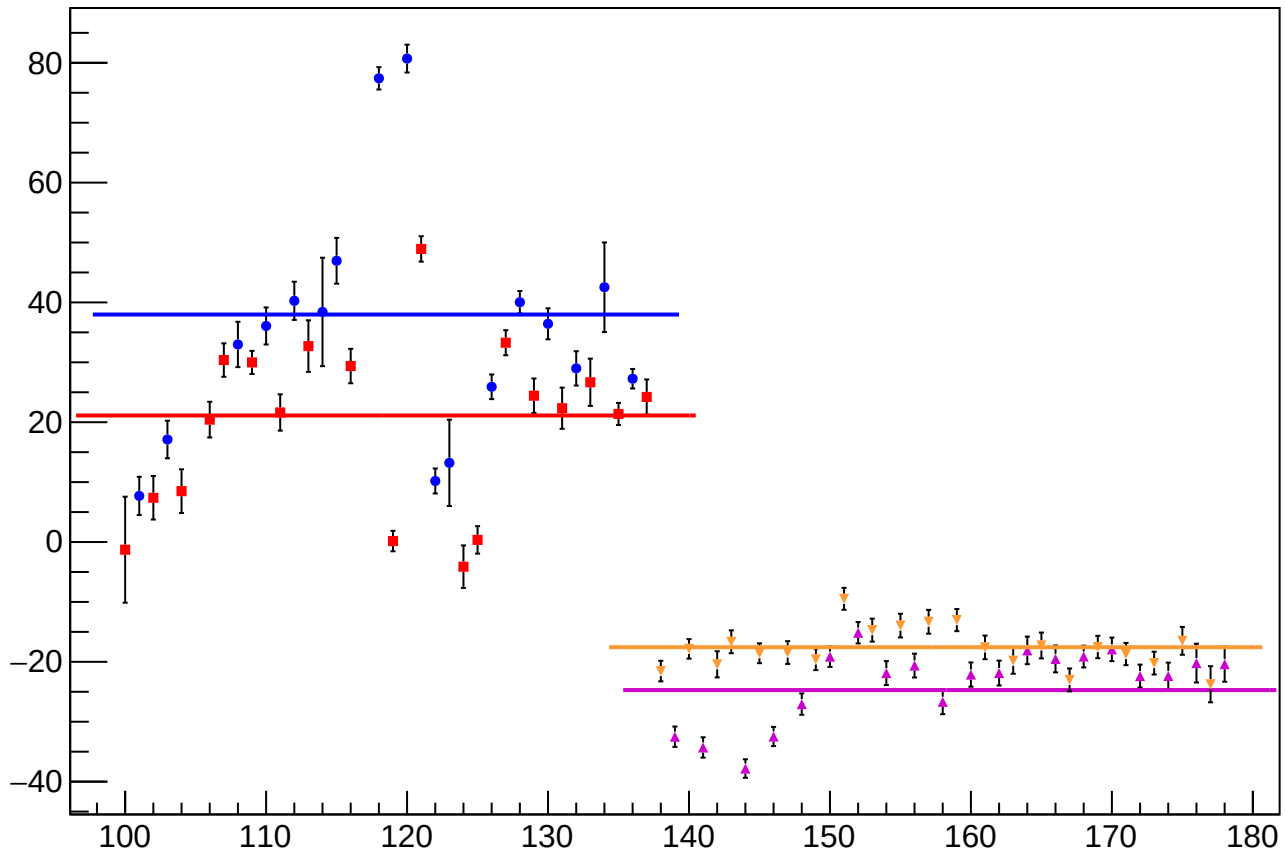
Right: 1857.561 ± 0.354 $\chi^2/\text{NDF}: 154160.4/35$

In: 1769.042 ± 0.267 $\chi^2/\text{NDF}: 554899.6/36$

Out: 1749.351 ± 0.260 $\chi^2/\text{NDF}: 580377.1/39$

All: 1758.915 ± 0.186 $\chi^2/\text{NDF}: 1138065.0/76$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.560 ± 0.421 $\chi^2/\text{NDF}: 60.8/20$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -24.717 ± 0.434 $\chi^2/\text{NDF}: 241.7/19$

Left: -21.036 ± 0.302 $\chi^2/\text{NDF}: 442.6/40$

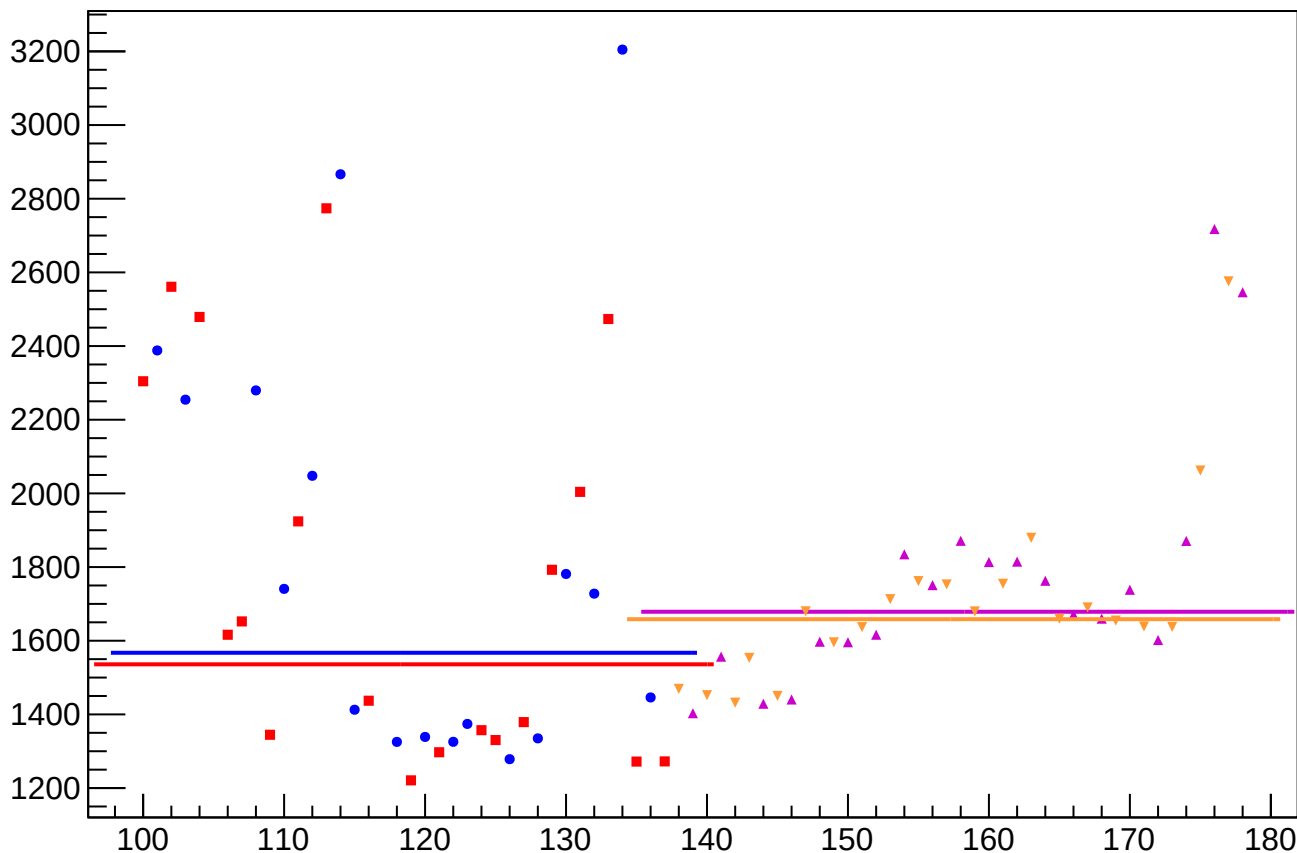
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -4.878 ± 0.359 $\chi^2/\text{NDF}: 8060.3/36$

Out: -5.017 ± 0.346 $\chi^2/\text{NDF}: 3367.0/39$

All: -4.950 ± 0.249 $\chi^2/\text{NDF}: 11427.3/76$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2 /NDF: 673450.6/16

Left Out: 1658.498 $\pm$ 0.298 χ^2 /NDF: 402035.4/20

Right Out: 1535.967 $\pm$ 0.430 χ^2 /NDF: 882098.2/18

Left In: 1678.671 $\pm$ 0.307 χ^2 /NDF: 623591.6/19

Left: 1668.295 $\pm$ 0.214 χ^2 /NDF: 1027853.2/40

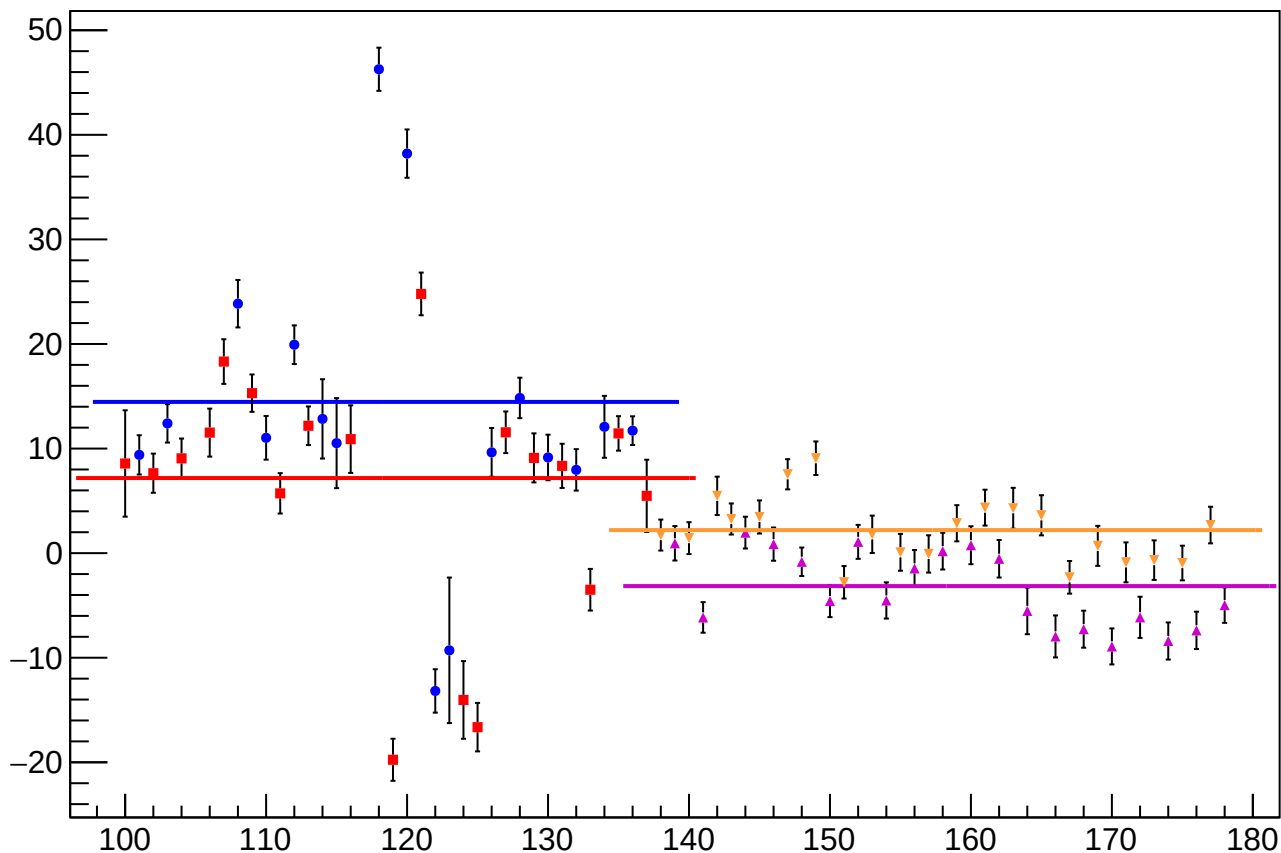
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1643.439 $\pm$ 0.254 χ^2 /NDF: 1338764.0/36

Out: 1618.769 $\pm$ 0.245 χ^2 /NDF: 1338963.4/39

All: 1630.679 $\pm$ 0.176 χ^2 /NDF: 2682624.7/76

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 ± 0.523 $\chi^2/\text{NDF}: 595.9/16$

Left Out: 2.204 ± 0.368 $\chi^2/\text{NDF}: 71.1/20$

Right Out: 7.181 ± 0.494 $\chi^2/\text{NDF}: 495.7/18$

Left In: -3.149 ± 0.379 $\chi^2/\text{NDF}: 92.0/19$

Left: -0.388 ± 0.264 $\chi^2/\text{NDF}: 265.8/40$

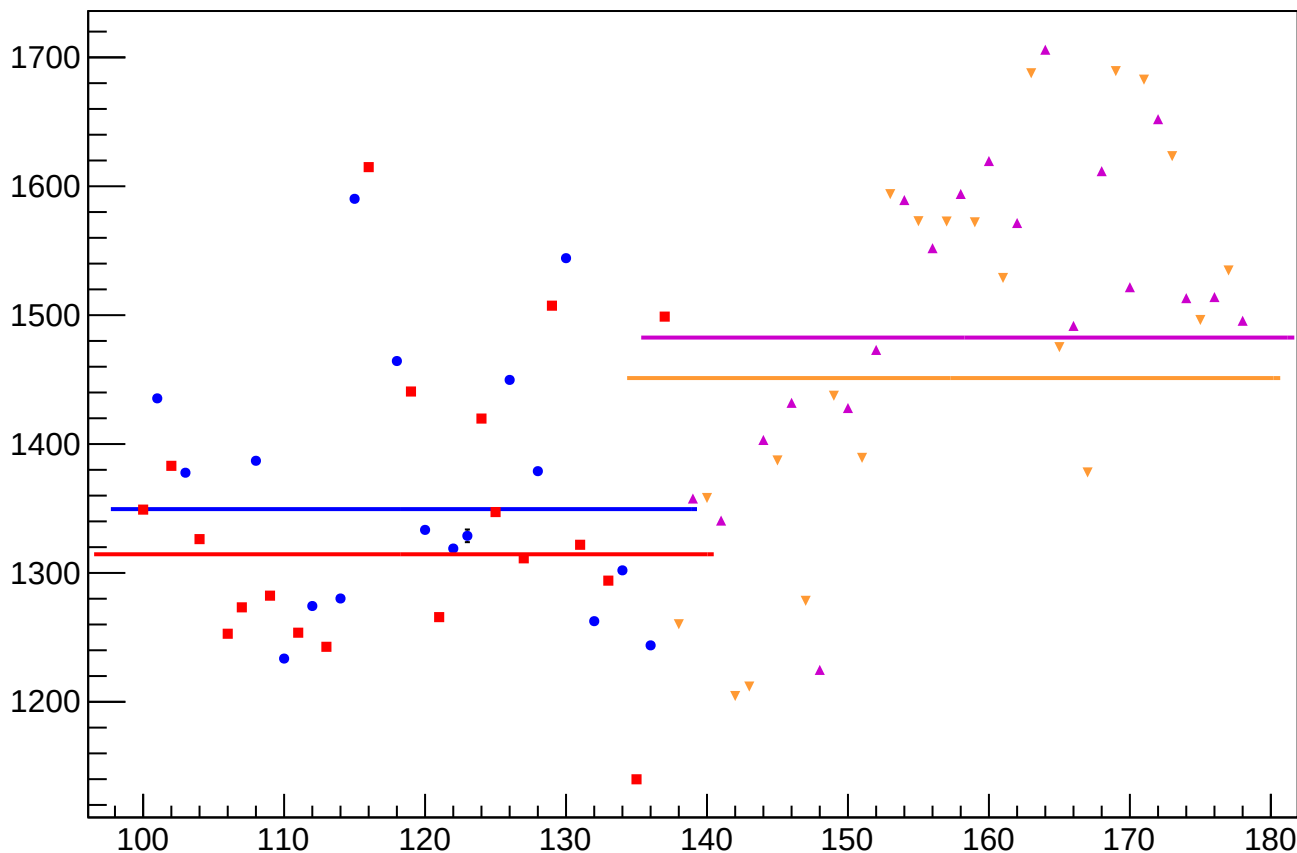
Right: 10.615 ± 0.359 $\chi^2/\text{NDF}: 1193.9/35$

In: 2.919 ± 0.307 $\chi^2/\text{NDF}: 1430.4/36$

Out: 3.975 ± 0.295 $\chi^2/\text{NDF}: 632.1/39$

All: 3.468 ± 0.213 $\chi^2/\text{NDF}: 2068.6/76$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1451.198 $\pm$ 0.260 χ^2 /NDF:326327.7/20

Right Out: 1314.485 $\pm$ 0.350 χ^2 /NDF: 80952.7/18

Left In: 1482.613 $\pm$ 0.268 χ^2 /NDF:195265.0/19

Left: 1466.408 $\pm$ 0.187 χ^2 /NDF: 528667.5/40

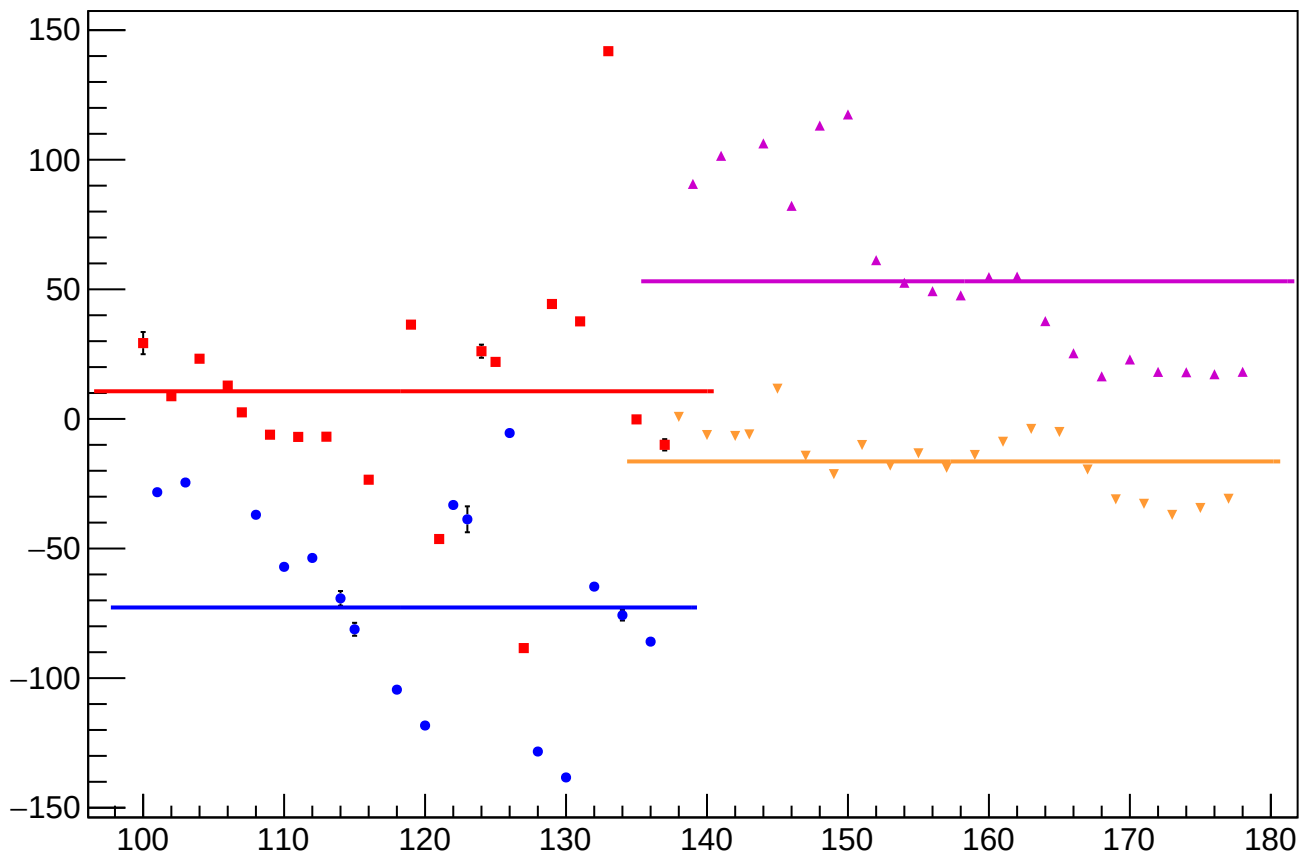
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1436.753 $\pm$ 0.217 χ^2 /NDF:344754.3/36

Out: 1402.533 $\pm$ 0.209 χ^2 /NDF:505785.9/39

All: 1418.952 $\pm$ 0.150 χ^2 /NDF: 863456.5/76

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 ± 0.362 χ^2/NDF : 11690.4/16

Left Out: -16.401 ± 0.229 χ^2/NDF : 3100.7/20

Right Out: 10.671 ± 0.352 χ^2/NDF : 18171.0/18

Left In: 53.099 ± 0.233 χ^2/NDF : 21082.1/19

Left: 17.663 ± 0.163 χ^2/NDF : 69369.5/40

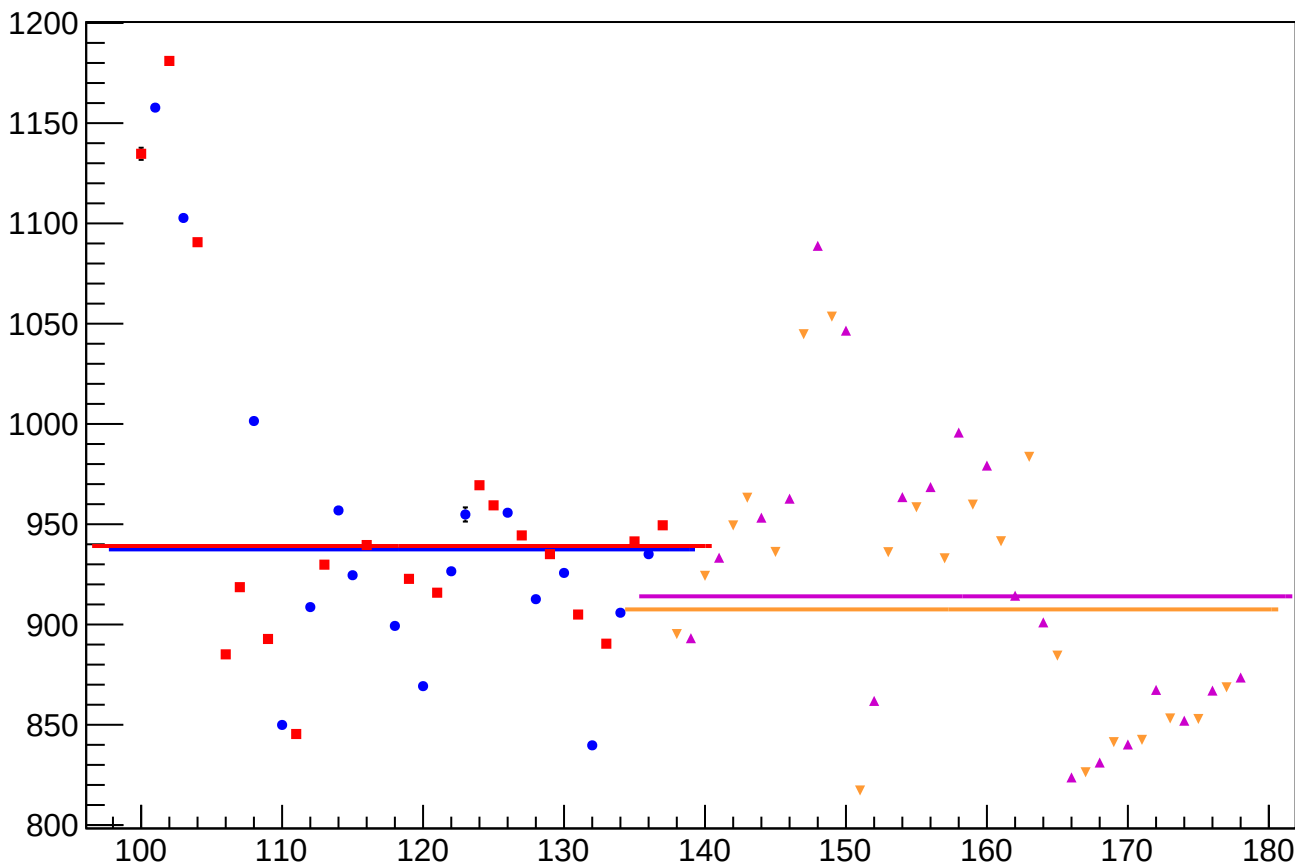
Right: -29.865 ± 0.253 χ^2/NDF : 57099.2/35

In: 16.186 ± 0.196 χ^2/NDF : 118000.8/36

Out: -8.366 ± 0.192 χ^2/NDF : 25423.3/39

All: 3.637 ± 0.137 χ^2/NDF : 151423.3/76

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 $\chi^2/\text{NDF}: 98307.6/16$

Left Out: 907.530 ± 0.162 $\chi^2/\text{NDF}: 159709.1/20$

Right Out: 939.140 ± 0.249 $\chi^2/\text{NDF}: 90253.2/18$

Left In: 914.051 ± 0.165 $\chi^2/\text{NDF}: 173368.3/19$

Left: 910.726 ± 0.116 $\chi^2/\text{NDF}: 333873.0/40$

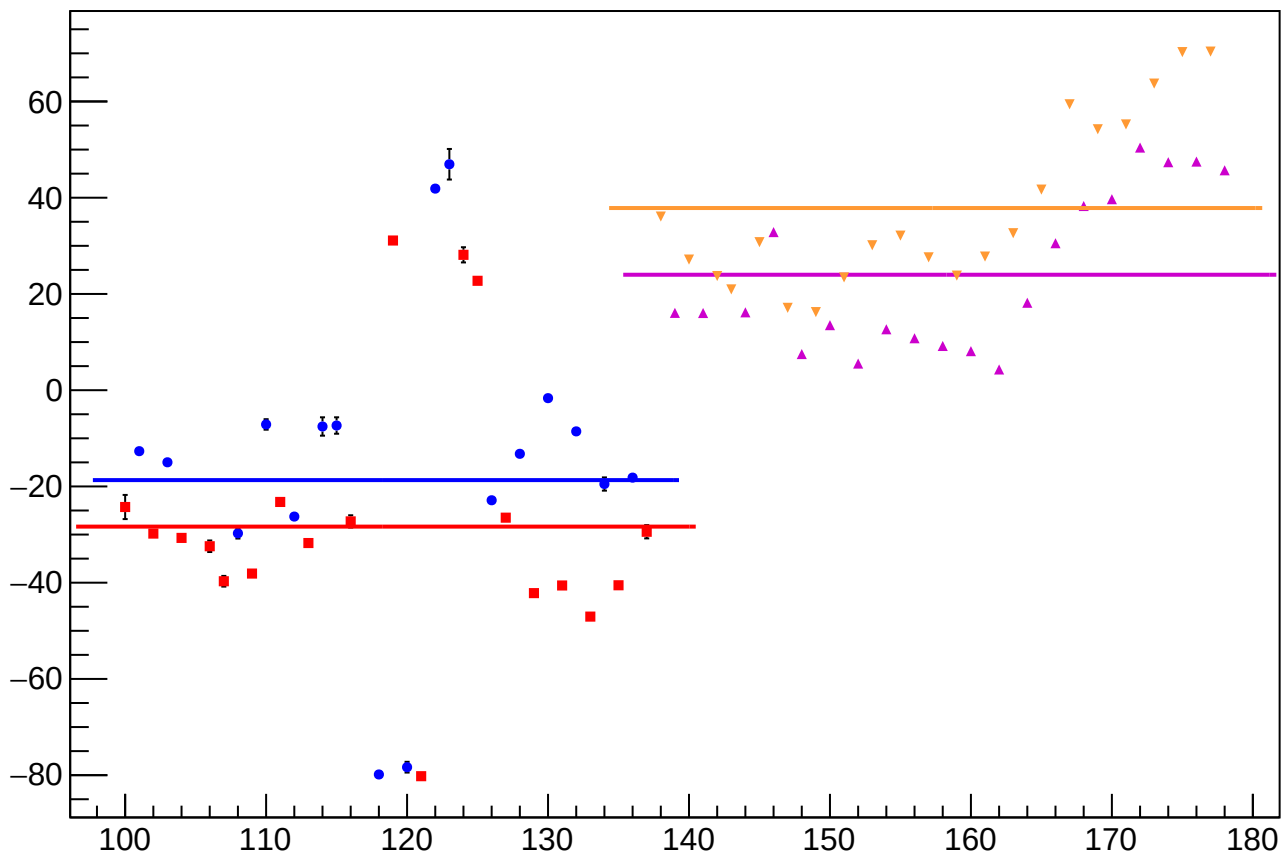
Right: 938.320 ± 0.179 $\chi^2/\text{NDF}: 188583.1/35$

In: 920.916 ± 0.139 $\chi^2/\text{NDF}: 277571.2/36$

Out: 916.912 ± 0.136 $\chi^2/\text{NDF}: 261282.8/39$

All: 918.869 ± 0.097 $\chi^2/\text{NDF}: 539279.6/76$

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683 ± 0.243 $\chi^2/\text{NDF}: 13006.2/16$

Left Out: 37.854 ± 0.180 $\chi^2/\text{NDF}: 9469.6/20$

Right Out: -28.347 ± 0.235 $\chi^2/\text{NDF}: 12508.1/18$

Left In: 23.992 ± 0.185 $\chi^2/\text{NDF}: 7077.7/19$

Left: 31.096 ± 0.129 $\chi^2/\text{NDF}: 19426.0/40$

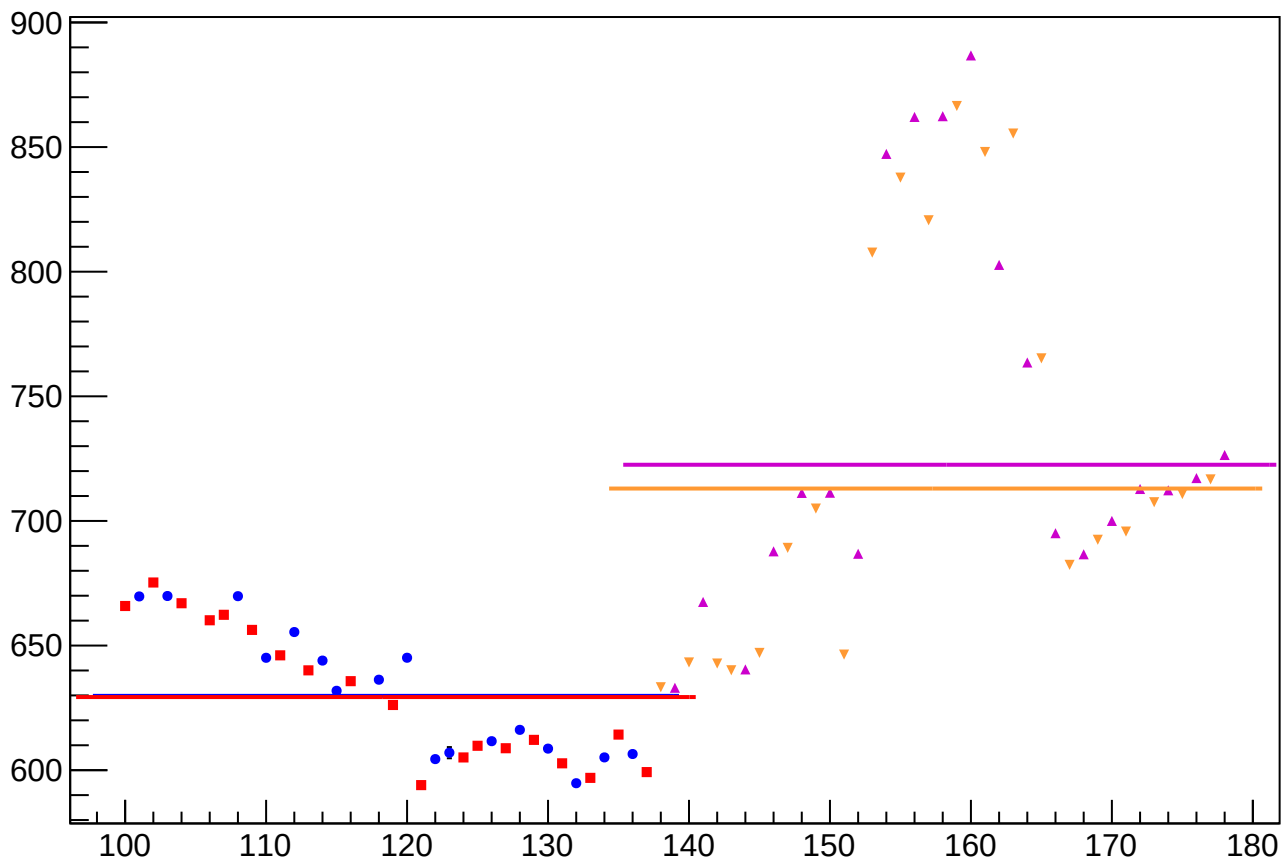
Right: -23.660 ± 0.169 $\chi^2/\text{NDF}: 26331.1/35$

In: 8.309 ± 0.147 $\chi^2/\text{NDF}: 39645.9/36$

Out: 13.366 ± 0.143 $\chi^2/\text{NDF}: 71786.7/39$

All: 10.905 ± 0.103 $\chi^2/\text{NDF}: 112039.2/76$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 712.997+/-0.128 χ^2/NDF : 332335.6/20

Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18

Left In: 722.543+/-0.131 χ^2/NDF : 278321.4/19

Left: 717.651+/-0.091 χ^2/NDF : 613387.0/40

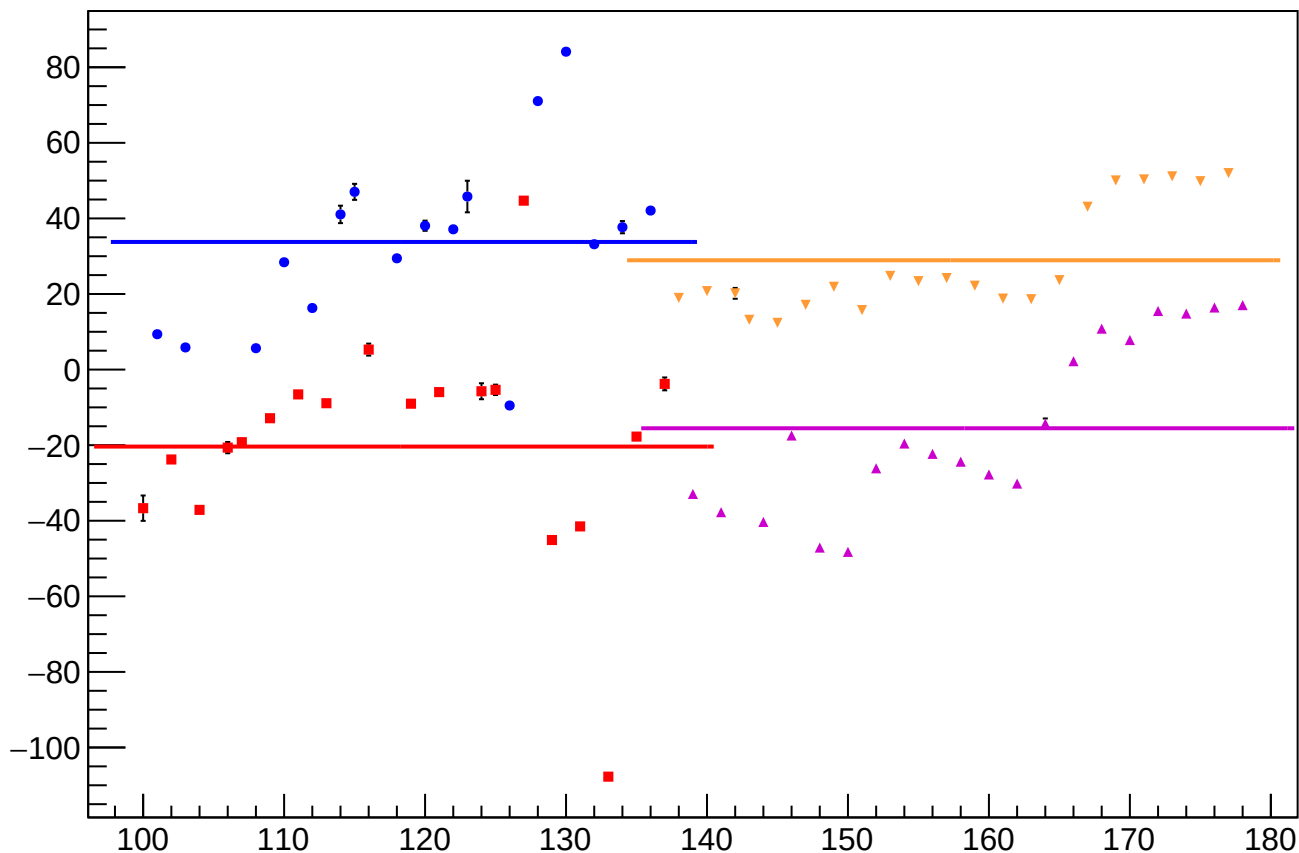
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 688.466+/-0.104 χ^2/NDF : 486345.5/36

Out: 682.051+/-0.101 χ^2/NDF : 516953.7/39

All: 685.173+/-0.073 χ^2/NDF : 1005251.9/76

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773 $\pm$ 0.300 χ^2 /NDF: 6487.9/16

Left Out: 28.924 $\pm$ 0.256 χ^2 /NDF:3097.6/20

Right Out: -20.375 $\pm$ 0.293 χ^2 /NDF: 11287.7/18

Left In: -15.527 $\pm$ 0.260 χ^2 /NDF:7359.3/19

Left: 7.044 $\pm$ 0.183 χ^2 /NDF: 25254.4/40

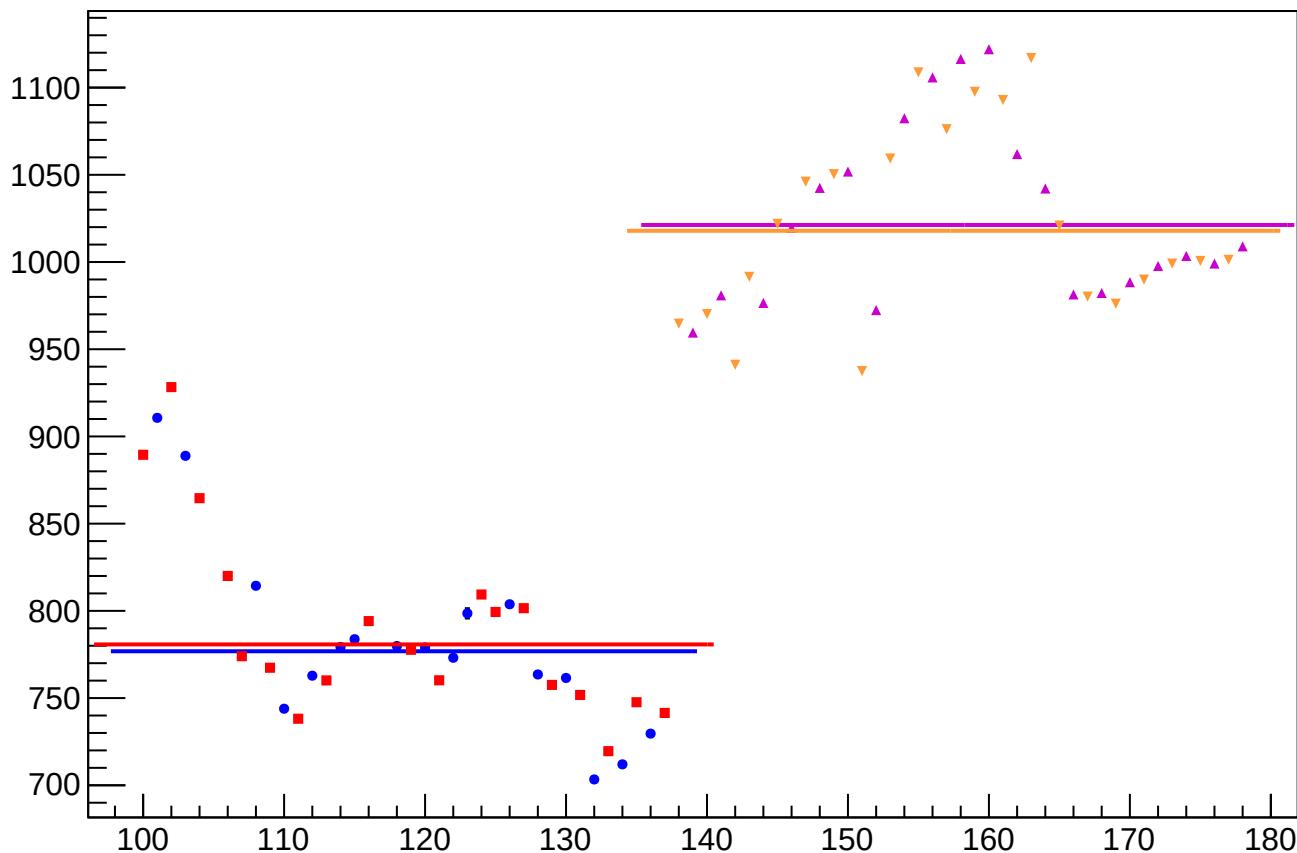
Right: 6.025 $\pm$ 0.209 χ^2 /NDF: 34481.3/35

In: 5.664 $\pm$ 0.197 χ^2 /NDF:29255.3/36

Out: 7.508 $\pm$ 0.193 χ^2 /NDF:30449.0/39

All: 6.604 $\pm$ 0.138 χ^2 /NDF: 59749.1/76

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1017.903 $\pm$ 0.181 χ^2 /NDF: 83022.6/20

Right Out: 780.755 $\pm$ 0.207 χ^2 /NDF: 57428.9/18

Left In: 1021.238 $\pm$ 0.184 χ^2 /NDF: 68799.2/19

Left: 1019.544 $\pm$ 0.129 χ^2 /NDF: 151988.5/40

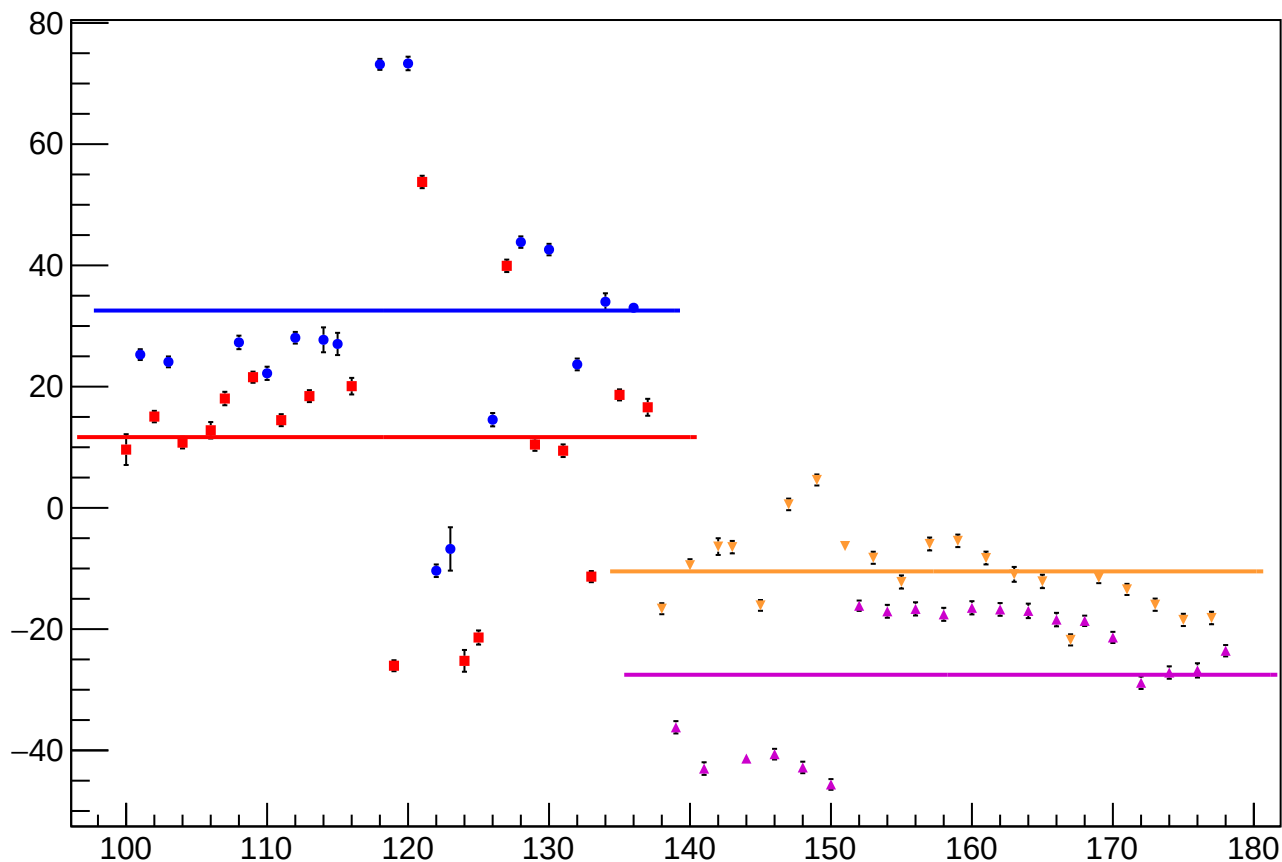
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 916.185 $\pm$ 0.139 χ^2 /NDF: 893623.6/36

Out: 914.881 $\pm$ 0.136 χ^2 /NDF: 883886.3/39

All: 915.520 $\pm$ 0.097 χ^2 /NDF: 1777554.8/76

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -10.475 ± 0.217 χ^2/NDF : 911.1/20

Right Out: 11.674 ± 0.247 χ^2/NDF : 6357.6/18

Left In: -27.529 ± 0.221 χ^2/NDF : 2457.7/19

Left: -18.857 ± 0.155 χ^2/NDF : 6406.3/40

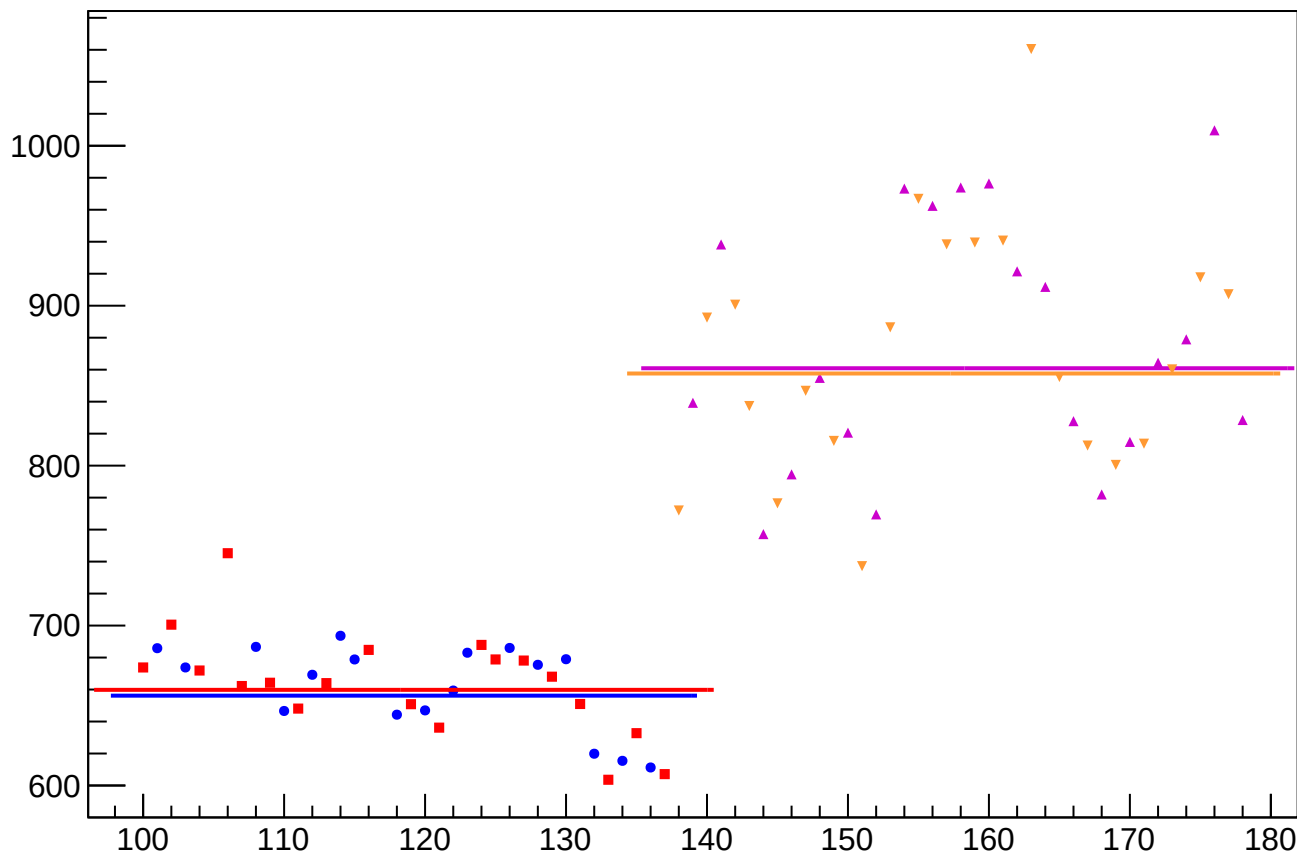
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: -1.558 ± 0.166 χ^2/NDF : 40582.0/36

Out: -0.830 ± 0.163 χ^2/NDF : 11808.5/39

All: -1.187 ± 0.116 χ^2/NDF : 52400.2/76

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181+/-0.179 χ^2/NDF : 23569.6/16

Left Out: 857.605+/-0.153 χ^2/NDF :229032.2/20

Right Out: 659.813+/-0.175 χ^2/NDF : 28325.7/18

Left In: 860.893+/-0.156 χ^2/NDF :234919.0/19

Left: 859.221+/-0.109 χ^2/NDF : 464177.1/40

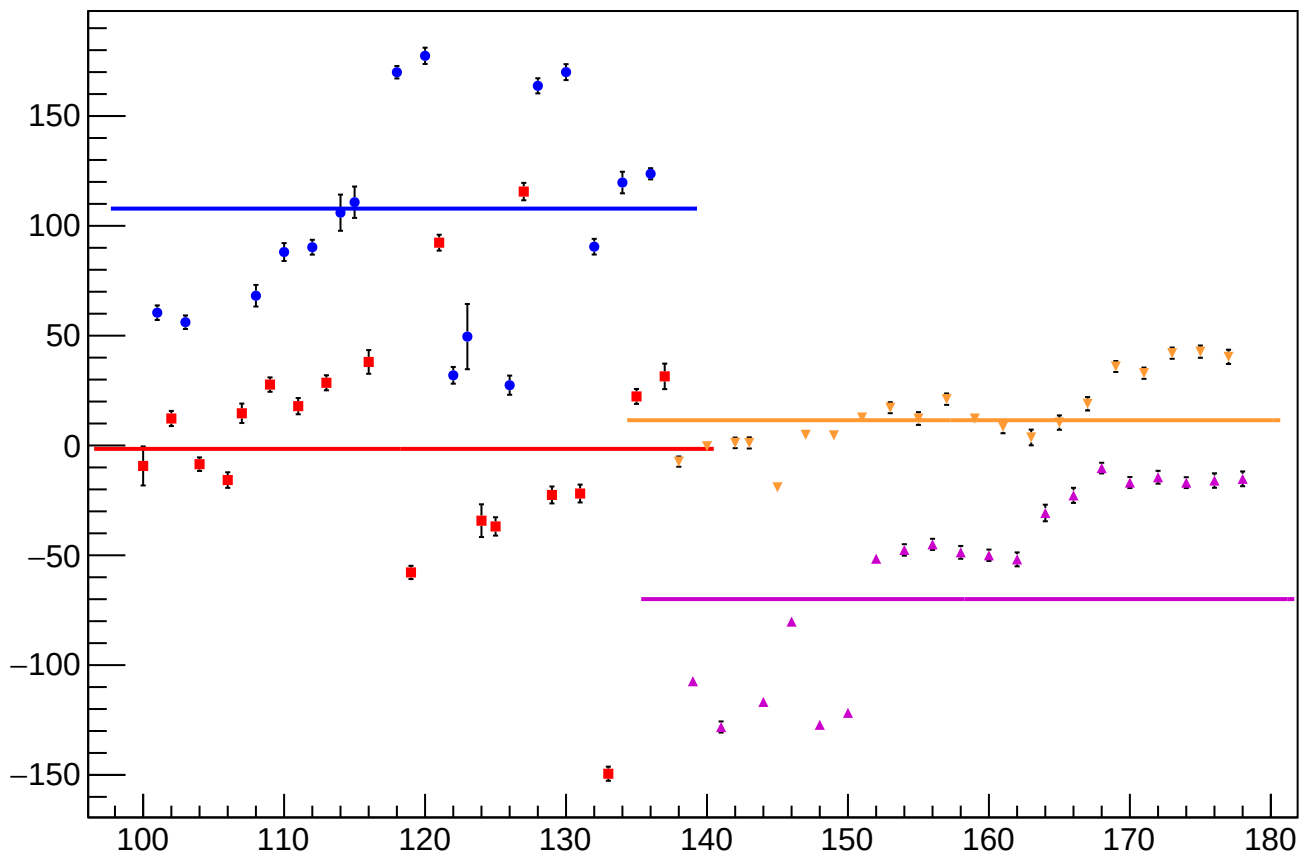
Right: 658.039+/-0.125 χ^2/NDF : 52106.5/35

In: 772.403+/-0.118 χ^2/NDF :1002691.9/36

Out: 771.472+/-0.115 χ^2/NDF :981408.2/39

All: 771.928+/-0.082 χ^2/NDF : 1984132.1/76

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 $\chi^2/\text{NDF}: 2809.0/16$

Left Out: 11.506 ± 0.532 $\chi^2/\text{NDF}: 929.9/20$

Right Out: -1.542 ± 0.883 $\chi^2/\text{NDF}: 4523.8/18$

Left In: -69.952 ± 0.540 $\chi^2/\text{NDF}: 6443.8/19$

Left: -28.623 ± 0.379 $\chi^2/\text{NDF}: 18916.6/40$

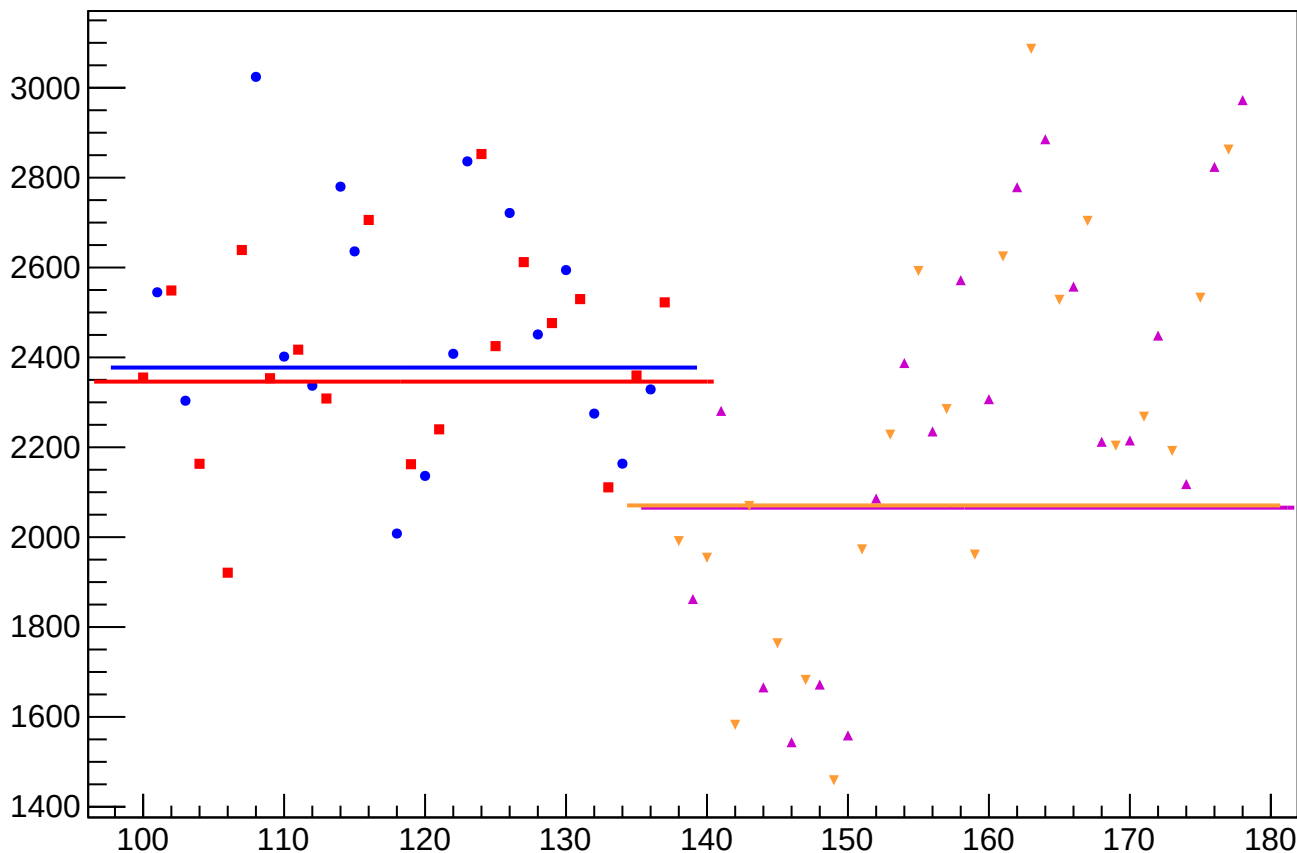
Right: 50.839 ± 0.638 $\chi^2/\text{NDF}: 14676.8/35$

In: -24.498 ± 0.466 $\chi^2/\text{NDF}: 36963.1/36$

Out: 8.031 ± 0.456 $\chi^2/\text{NDF}: 5613.7/39$

All: -7.877 ± 0.326 $\chi^2/\text{NDF}: 45067.4/76$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 2070.574+/-0.376 χ^2/NDF : 1145441.9/20

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 2065.605+/-0.382 χ^2/NDF : 1235350.8/19

Left: 2068.126+/-0.268 χ^2/NDF : 2380878.6/40

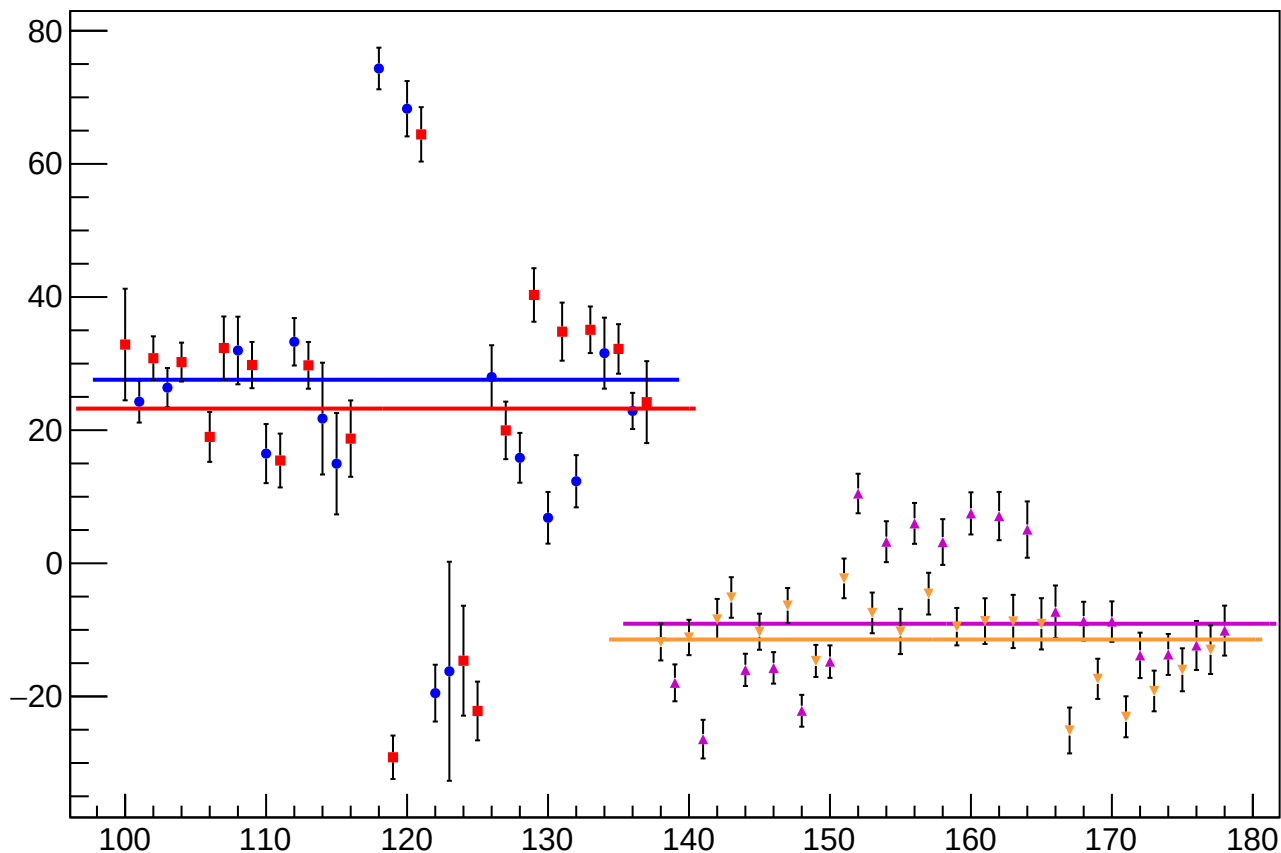
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2145.318+/-0.329 χ^2/NDF : 1525446.8/36

Out: 2143.953+/-0.322 χ^2/NDF : 1396493.6/39

All: 2144.620+/-0.230 χ^2/NDF : 2921949.2/76

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -11.443 ± 0.664 $\chi^2/\text{NDF}: 71.5/20$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -9.078 ± 0.673 $\chi^2/\text{NDF}: 257.5/19$

Left: -10.275 ± 0.473 $\chi^2/\text{NDF}: 335.2/40$

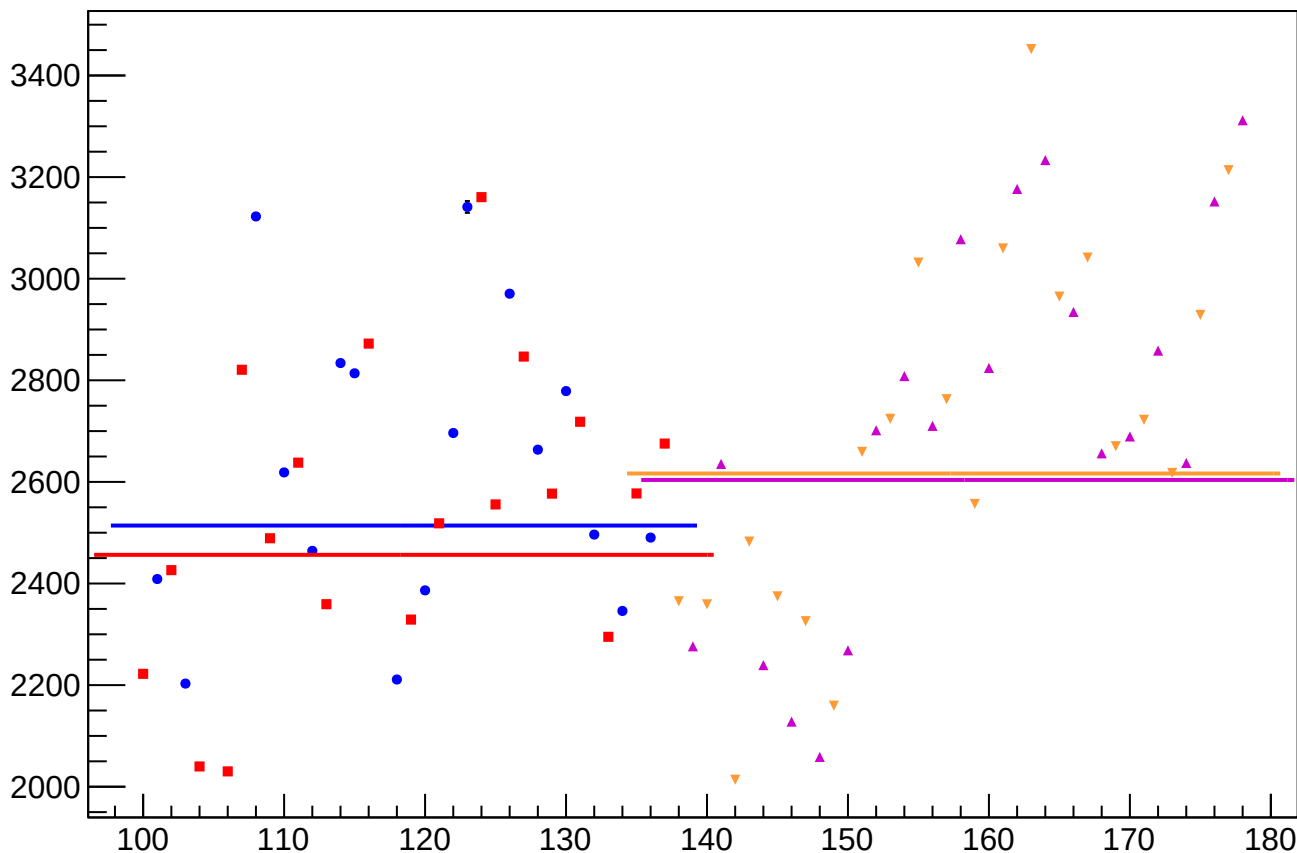
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 2.744 ± 0.554 $\chi^2/\text{NDF}: 1735.0/36$

Out: 0.327 ± 0.540 $\chi^2/\text{NDF}: 1554.3/39$

All: 1.506 ± 0.387 $\chi^2/\text{NDF}: 3299.1/76$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 $\pm$ 0.689 χ^2 /NDF: 120961.3/16

Left Out: 2616.539 $\pm$ 0.470 χ^2 /NDF: 508632.8/20

Right Out: 2456.460 $\pm$ 0.655 χ^2 /NDF: 149732.7/18

Left In: 2603.825 $\pm$ 0.476 χ^2 /NDF: 594833.2/19

Left: 2610.260 $\pm$ 0.334 χ^2 /NDF: 1103827.8/40

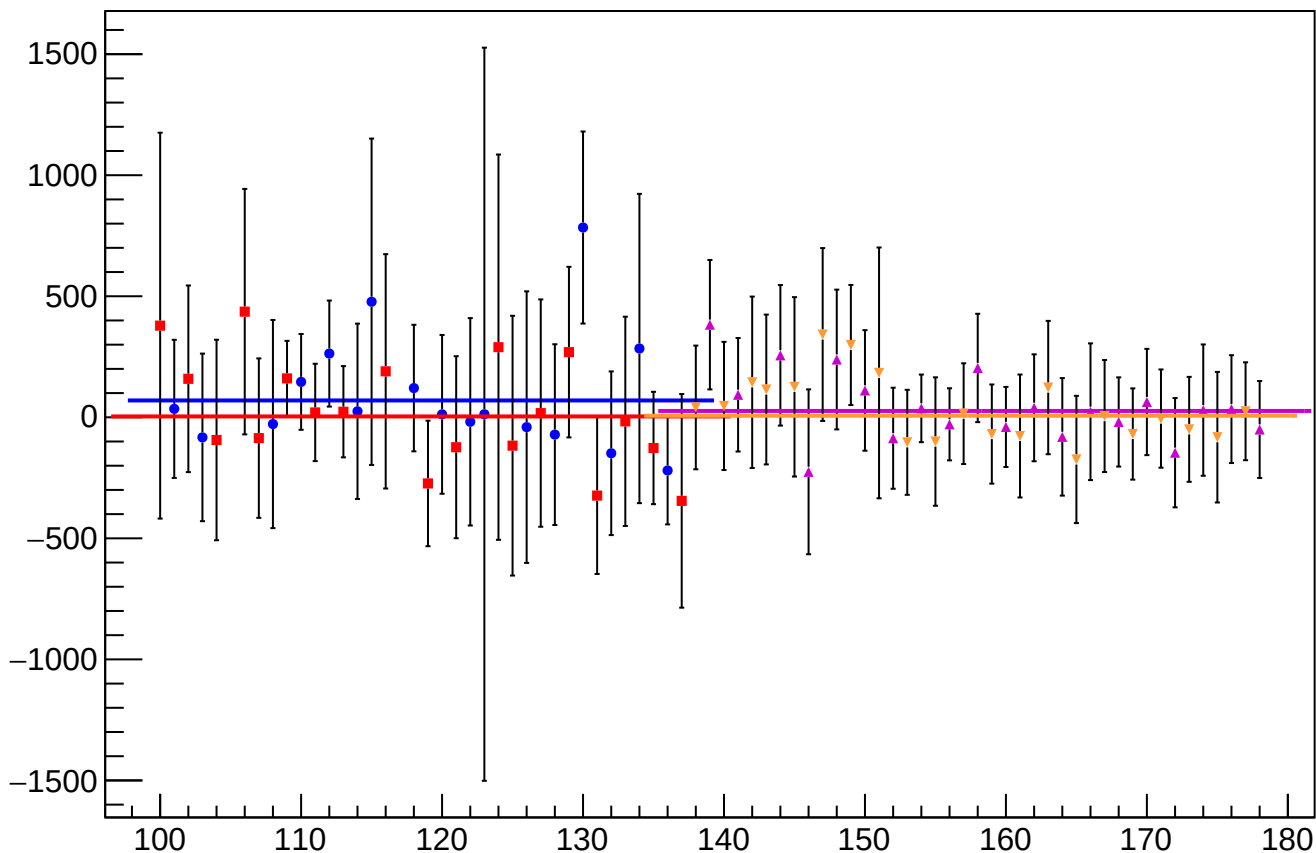
Right: 2483.827 $\pm$ 0.475 χ^2 /NDF: 274364.7/35

In: 2574.882 $\pm$ 0.391 χ^2 /NDF: 727277.5/36

Out: 2562.220 $\pm$ 0.382 χ^2 /NDF: 697768.5/39

All: 2568.394 $\pm$ 0.273 χ^2 /NDF: 1425582.1/76

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.587 $\pm$ 79.023 χ^2 /NDF: 7.3/16

Left Out: 6.484 $\pm$ 54.288 χ^2 /NDF:4.5/20

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 26.261 $\pm$ 47.938 χ^2 /NDF:5.9/19

Left: 17.596 $\pm$ 35.933 χ^2 /NDF: 10.5/40

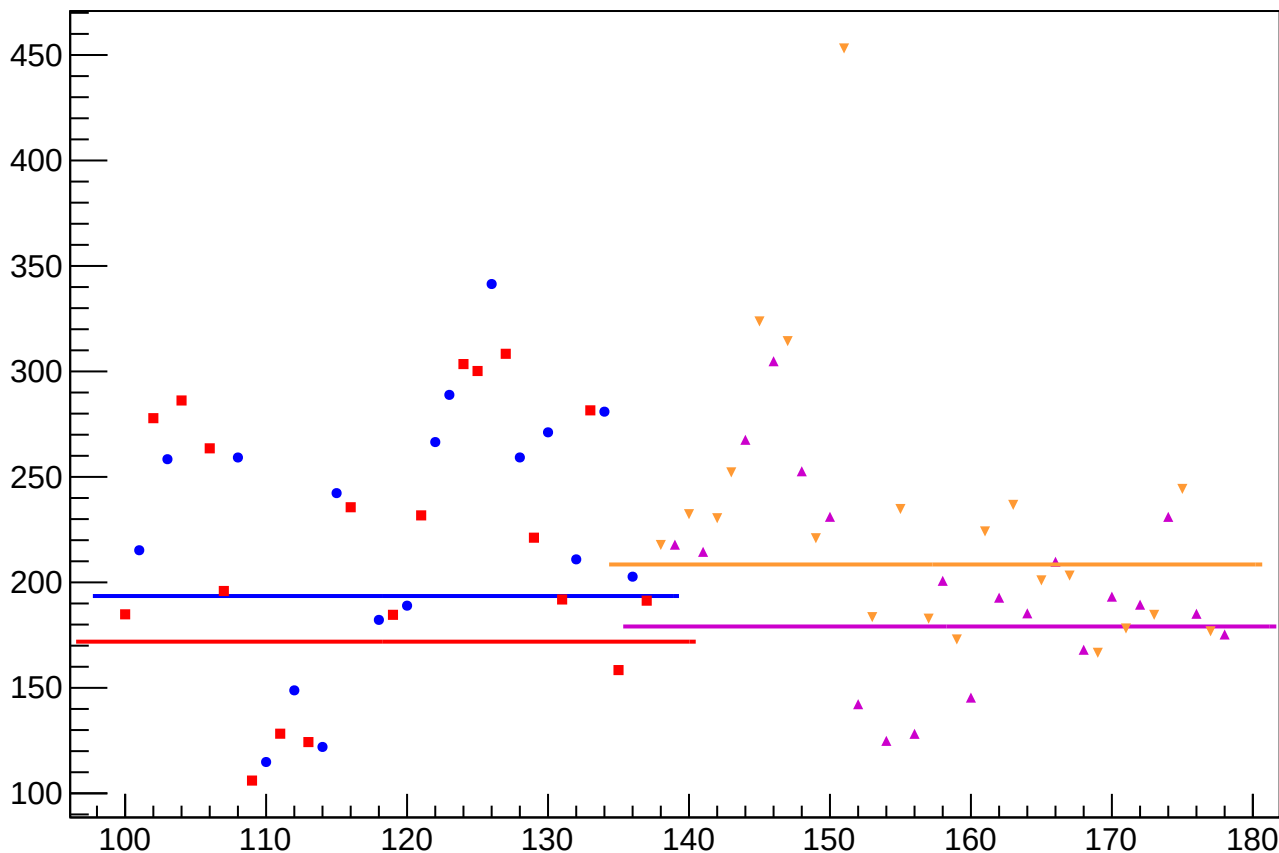
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 37.916 $\pm$ 40.986 χ^2 /NDF:13.5/36

Out: 5.386 $\pm$ 42.894 χ^2 /NDF:10.9/39

All: 22.391 $\pm$ 29.633 χ^2 /NDF: 24.6/76

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533+/-0.056 χ^2/NDF : 1010428.2/16

Left Out: 208.490+/-0.038 χ^2/NDF :1306739.7/20

Right Out: 171.901+/-0.049 χ^2/NDF : 1576883.7/18

Left In: 179.094+/-0.034 χ^2/NDF :1590211.2/19

Left: 191.973+/-0.025 χ^2/NDF : 3226434.7/40

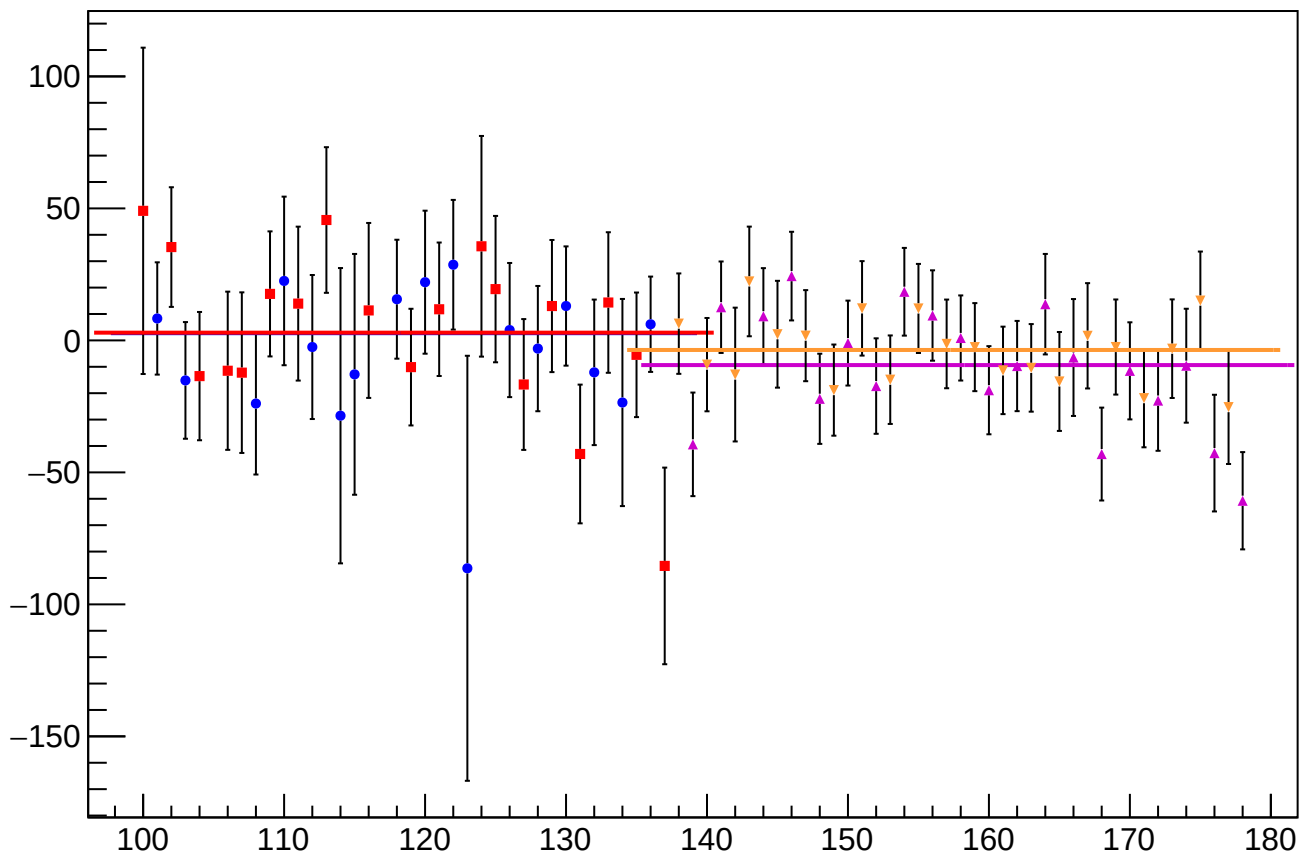
Right: 181.409+/-0.037 χ^2/NDF : 2671312.8/35

In: 182.978+/-0.029 χ^2/NDF :2649446.4/36

Out: 194.743+/-0.030 χ^2/NDF :3224963.7/39

All: 188.593+/-0.021 χ^2/NDF : 5953056.0/76

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733+/-6.424 χ^2/NDF : 6.8/16

Left Out: -3.629+/-3.989 χ^2/NDF : 9.0/20

Right Out: 2.928+/-6.279 χ^2/NDF : 17.8/18

Left In: -9.353+/-4.028 χ^2/NDF : 30.5/19

Left: -6.462+/-2.834 χ^2/NDF : 40.5/40

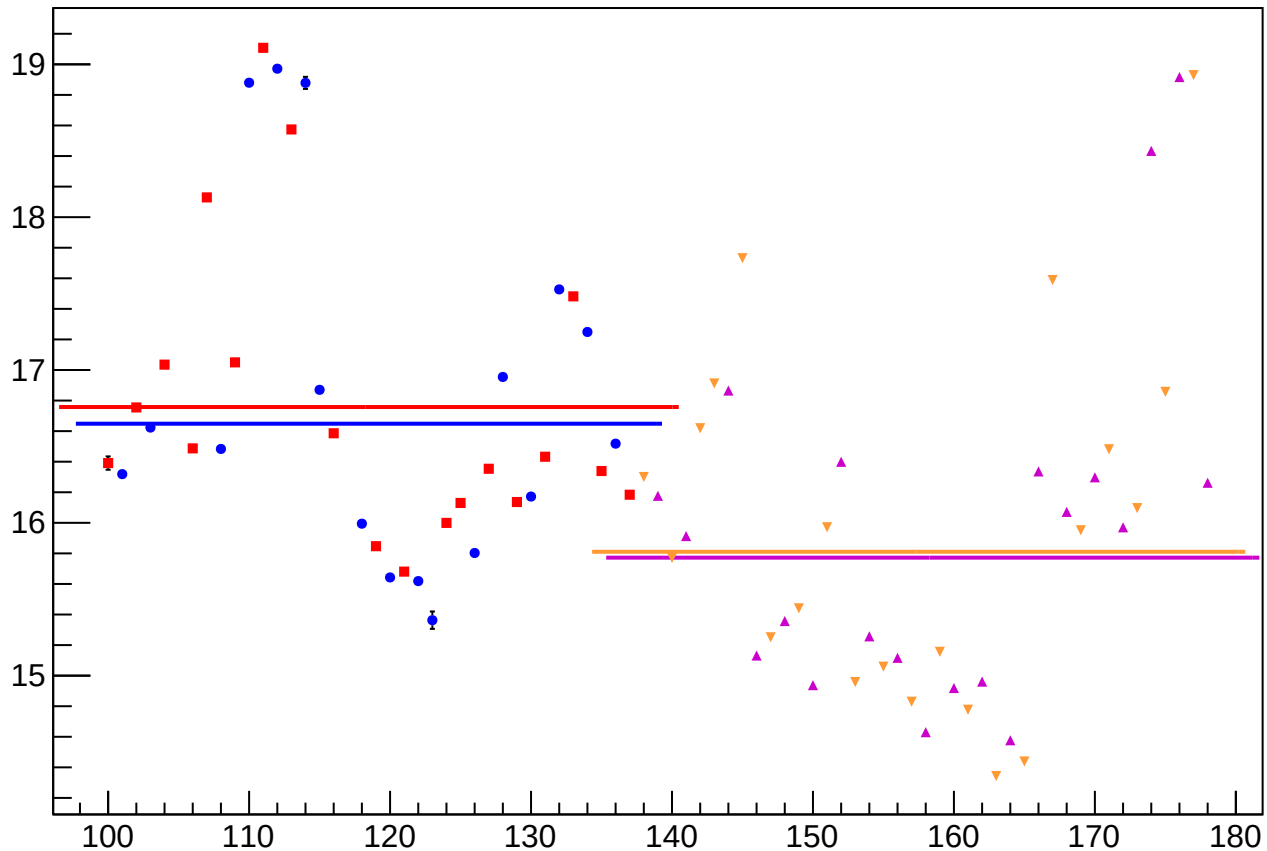
Right: 2.833+/-4.490 χ^2/NDF : 24.5/35

In: -5.942+/-3.413 χ^2/NDF : 39.8/36

Out: -1.743+/-3.367 χ^2/NDF : 27.5/39

All: -3.814+/-2.397 χ^2/NDF : 68.1/76

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.649 ± 0.005 $\chi^2/\text{NDF}: 42566.9/16$

Left Out: 15.811 ± 0.003 $\chi^2/\text{NDF}: 150746.8/20$

Right Out: 16.758 ± 0.004 $\chi^2/\text{NDF}: 39950.7/18$

Left In: 15.772 ± 0.003 $\chi^2/\text{NDF}: 128624.0/19$

Left: 15.792 ± 0.002 $\chi^2/\text{NDF}: 279463.5/40$

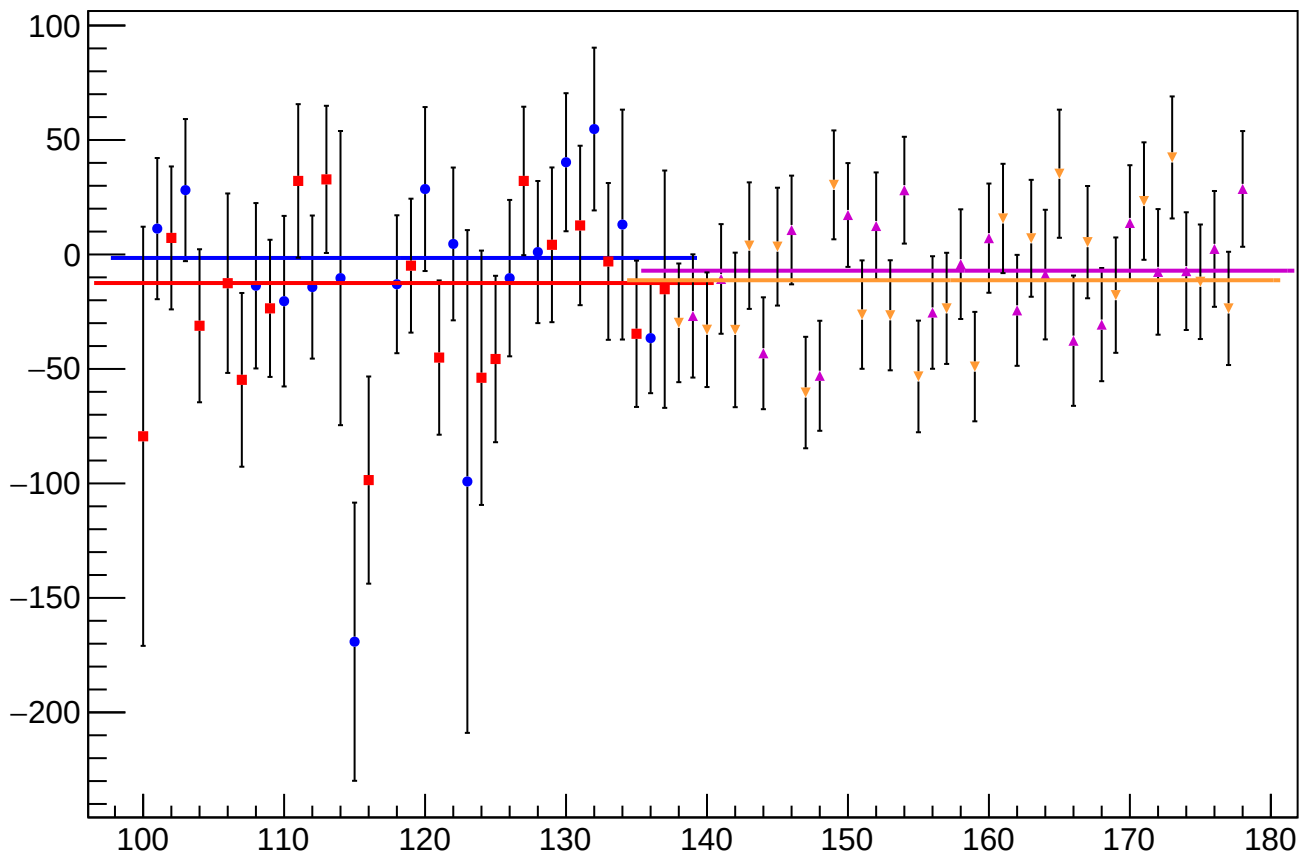
Right: 16.704 ± 0.003 $\chi^2/\text{NDF}: 82813.0/35$

In: 16.019 ± 0.002 $\chi^2/\text{NDF}: 197908.5/36$

Out: 16.083 ± 0.002 $\chi^2/\text{NDF}: 223113.9/39$

All: 16.052 ± 0.002 $\chi^2/\text{NDF}: 421373.7/76$

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: -11.259 ± 5.517 $\chi^2/\text{NDF}: 27.2/20$

Right Out: -12.475 ± 8.210 $\chi^2/\text{NDF}: 15.6/18$

Left In: -7.084 ± 5.552 $\chi^2/\text{NDF}: 17.4/19$

Left: -9.185 ± 3.914 $\chi^2/\text{NDF}: 44.8/40$

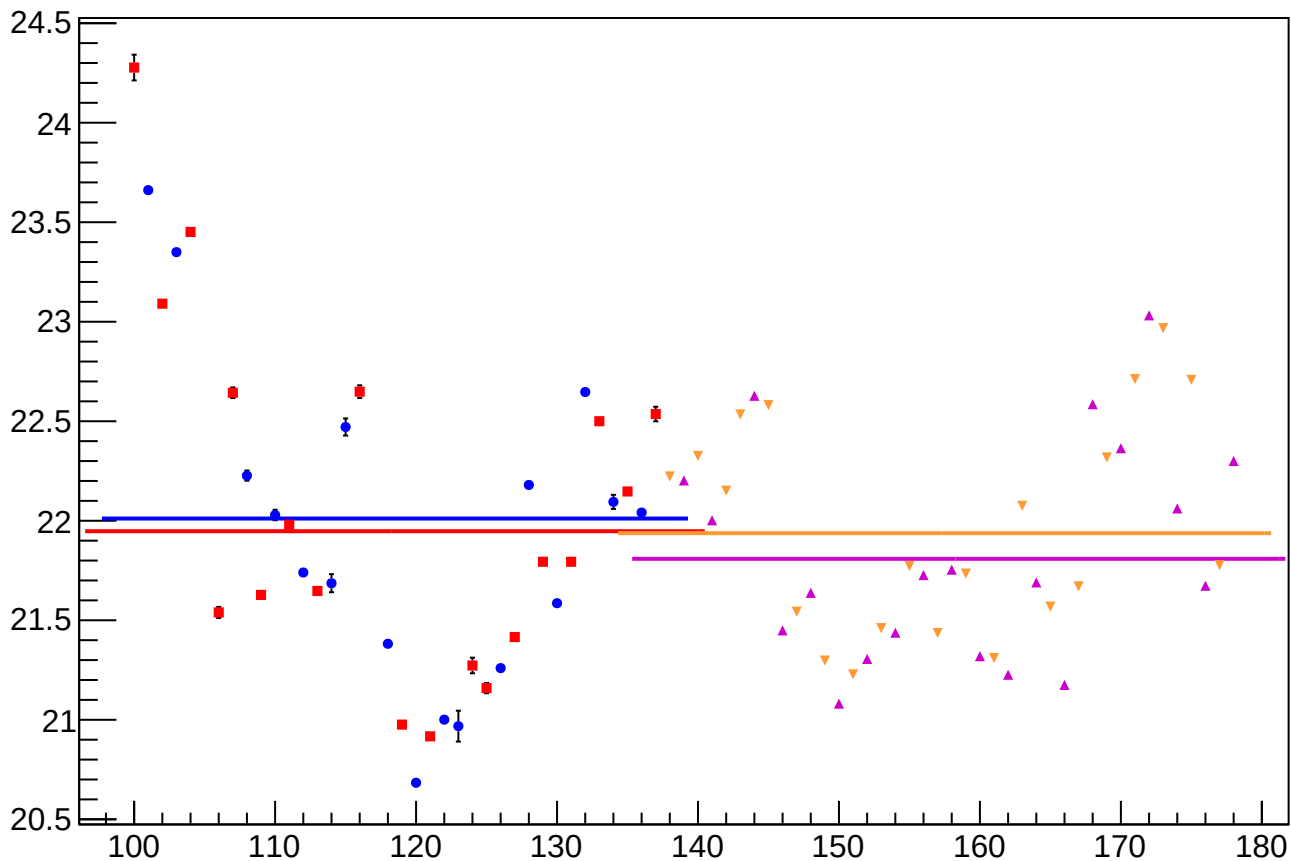
Right: -7.179 ± 5.900 $\chi^2/\text{NDF}: 34.1/35$

In: -5.417 ± 4.646 $\chi^2/\text{NDF}: 35.3/36$

Out: -11.637 ± 4.579 $\chi^2/\text{NDF}: 42.8/39$

All: -8.572 ± 3.261 $\chi^2/\text{NDF}: 79.0/76$

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: 21.938+/-0.004 χ^2/NDF : 17902.6/20

Right Out: 21.947+/-0.006 χ^2/NDF : 16592.7/18

Left In: 21.809+/-0.004 χ^2/NDF : 17845.2/19

Left: 21.874+/-0.003 χ^2/NDF : 36288.6/40

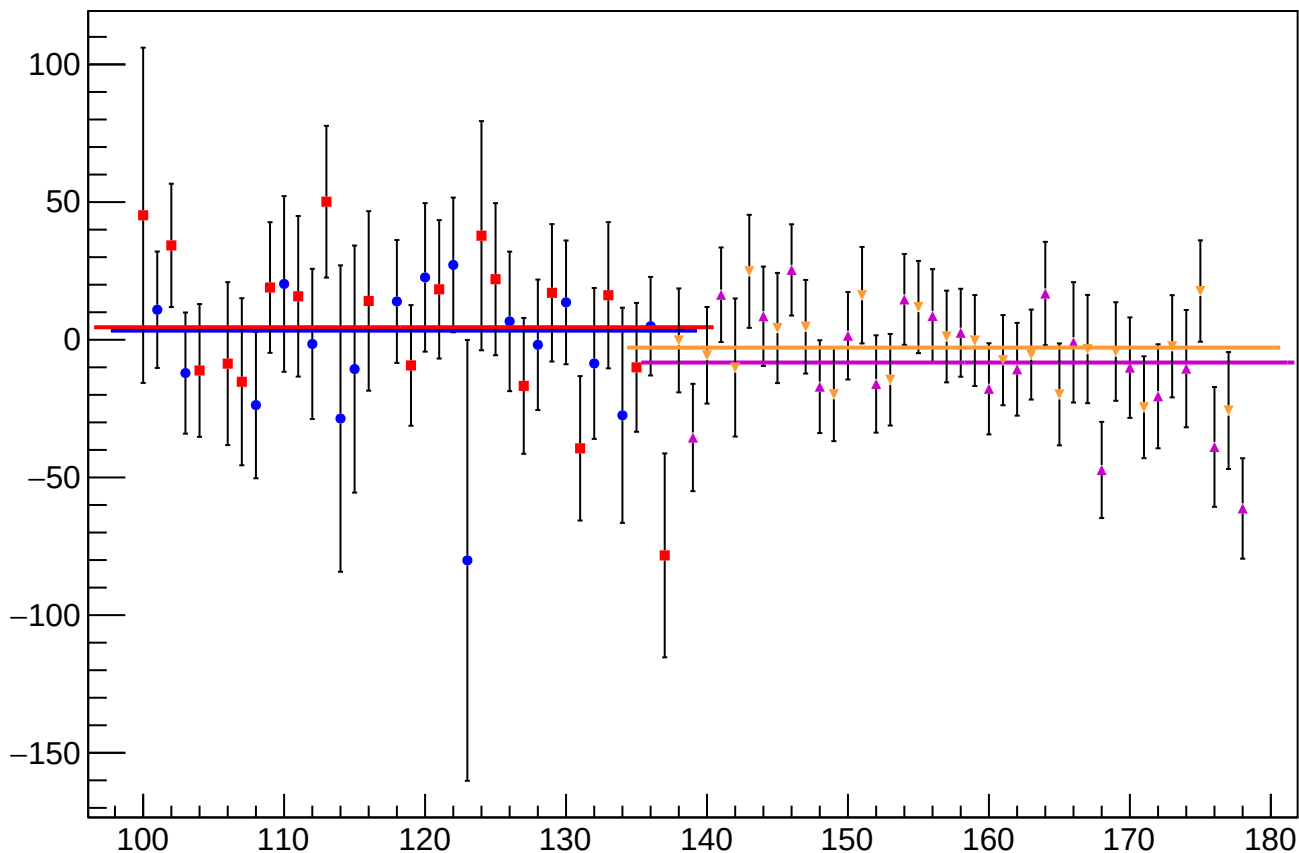
Right: 21.978+/-0.004 χ^2/NDF : 34197.9/35

In: 21.870+/-0.003 χ^2/NDF : 36188.2/36

Out: 21.941+/-0.003 χ^2/NDF : 34497.3/39

All: 21.906+/-0.002 χ^2/NDF : 70923.4/76

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: -2.829 $\pm$ 3.946 χ^2 /NDF:10.5/20

Right Out: 4.561 $\pm$ 6.244 χ^2 /NDF: 17.7/18

Left In: -8.260 $\pm$ 3.985 χ^2 /NDF:31.3/19

Left: -5.518 $\pm$ 2.804 χ^2 /NDF: 42.8/40

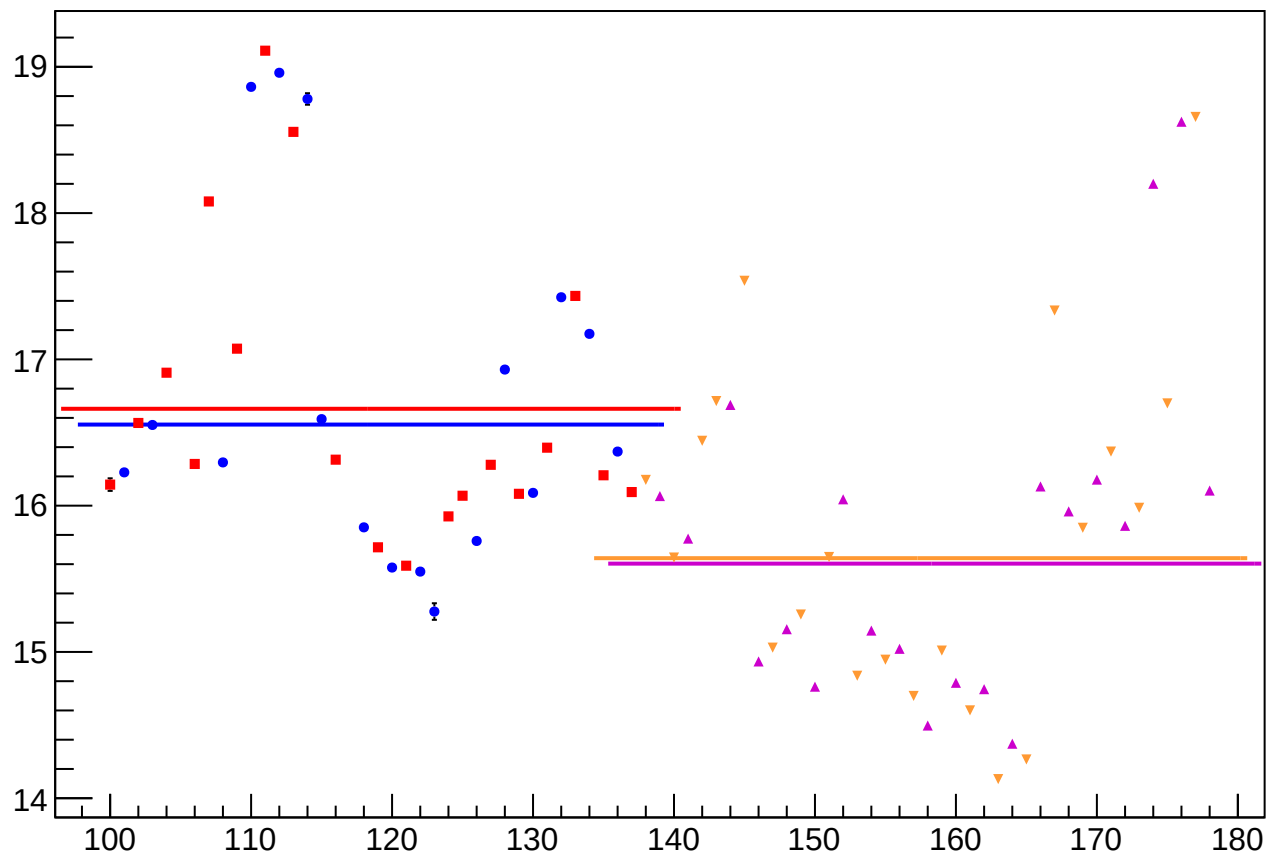
Right: 3.953 $\pm$ 4.465 χ^2 /NDF: 24.0/35

In: -5.017 $\pm$ 3.381 χ^2 /NDF:39.9/36

Out: -0.720 $\pm$ 3.335 χ^2 /NDF:29.2/39

All: -2.840 $\pm$ 2.374 χ^2 /NDF: 70.0/76

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: 15.641 $\pm$ 0.003 χ^2 /NDF: 150237.4/20

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.604 $\pm$ 0.003 χ^2 /NDF: 126330.9/19

Left: 15.623 $\pm$ 0.002 χ^2 /NDF: 276656.8/40

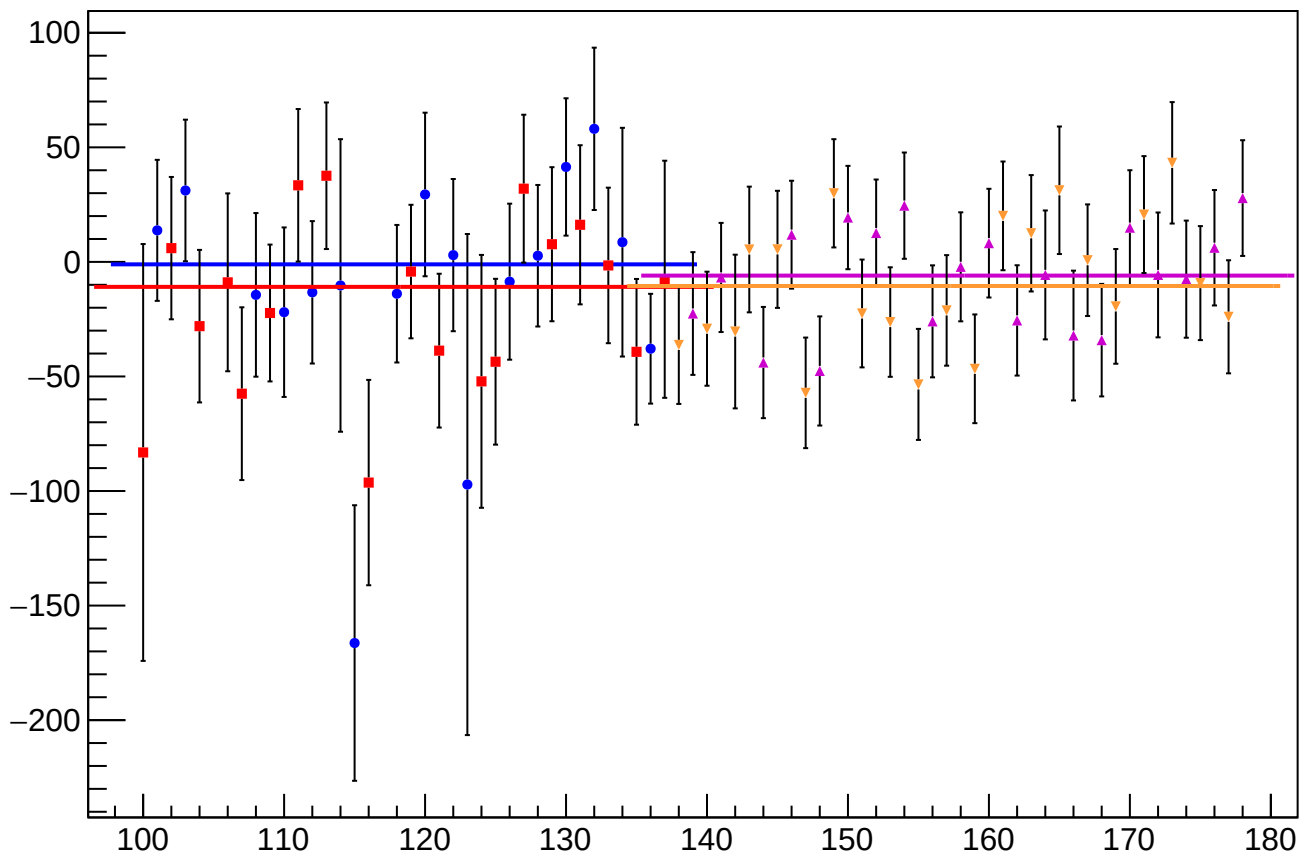
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.870 $\pm$ 0.002 χ^2 /NDF: 202689.8/36

Out: 15.932 $\pm$ 0.002 χ^2 /NDF: 231542.1/39

All: 15.902 $\pm$ 0.002 χ^2 /NDF: 434578.0/76

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.068 ± 8.444 χ^2/NDF : 18.5/16

Left Out: -10.521 ± 5.484 χ^2/NDF : 26.6/20

Right Out: -10.900 ± 8.169 χ^2/NDF : 16.2/18

Left In: -5.983 ± 5.521 χ^2/NDF : 16.7/19

Left: -8.267 ± 3.891 χ^2/NDF : 43.7/40

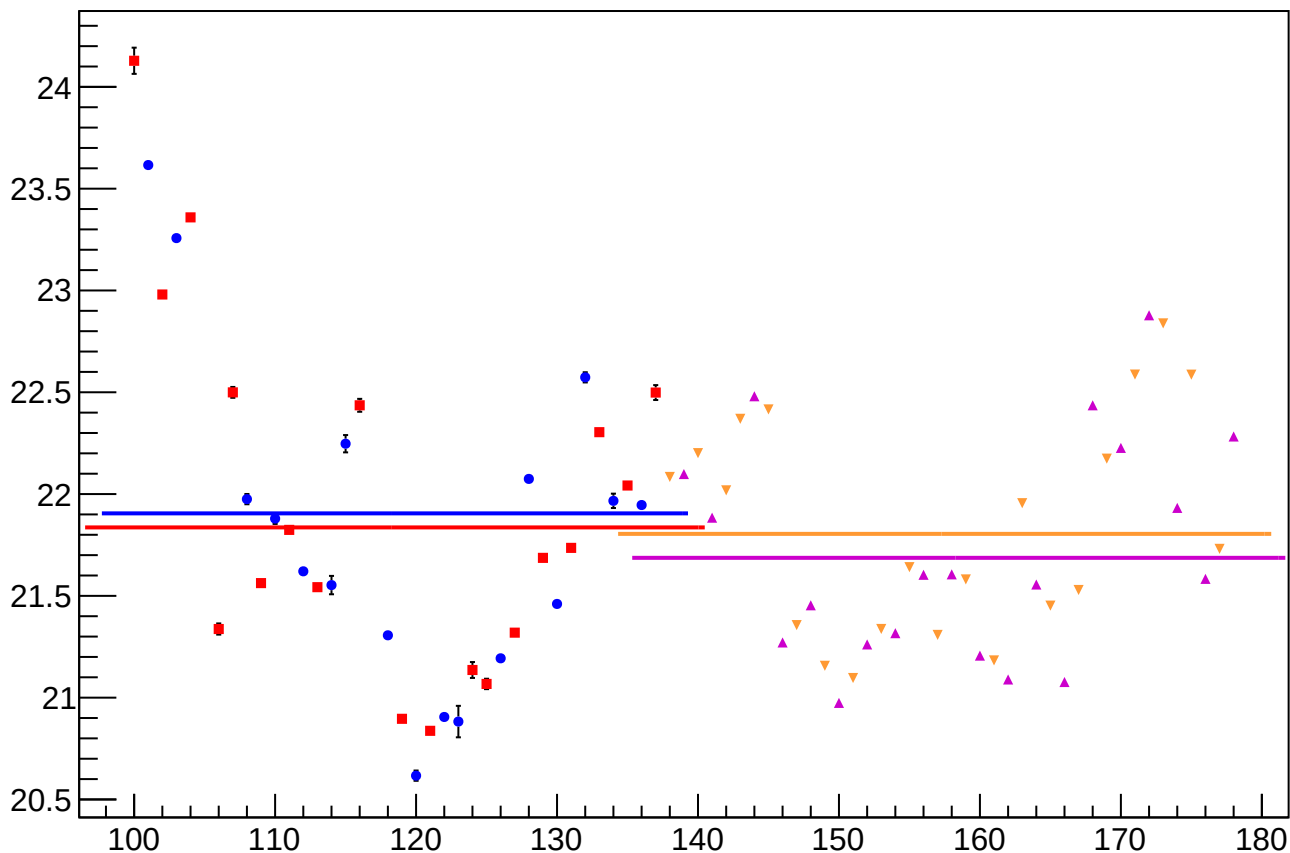
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -4.511 ± 4.621 χ^2/NDF : 35.4/36

Out: -10.639 ± 4.553 χ^2/NDF : 42.9/39

All: -7.620 ± 3.243 χ^2/NDF : 79.2/76

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.905 $\pm$ 0.006 χ^2 /NDF: 17794.2/16

Left Out: 21.804 $\pm$ 0.004 χ^2 /NDF: 18078.2/20

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.687 $\pm$ 0.004 χ^2 /NDF: 17744.5/19

Left: 21.746 $\pm$ 0.003 χ^2 /NDF: 36280.0/40

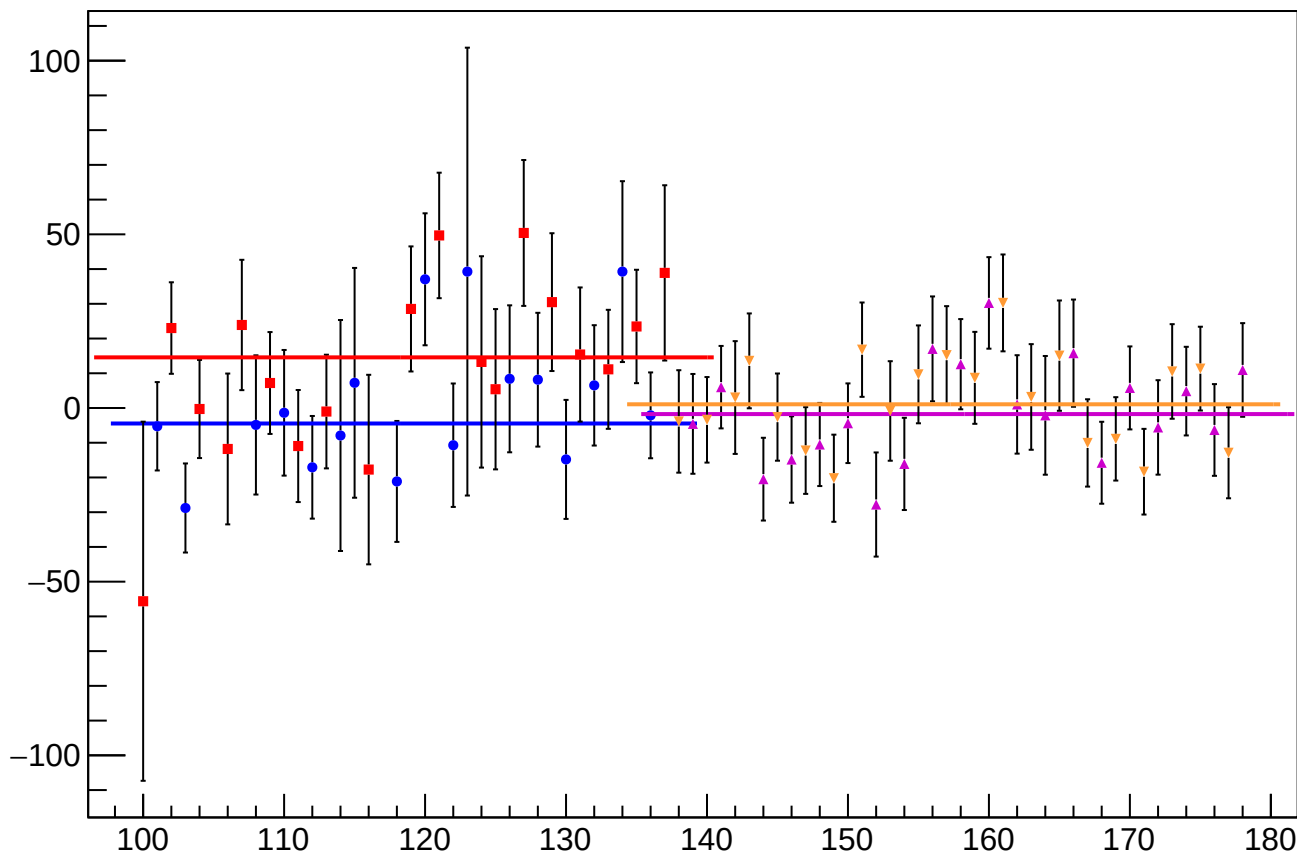
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.752 $\pm$ 0.003 χ^2 /NDF: 36475.7/36

Out: 21.814 $\pm$ 0.003 χ^2 /NDF: 34350.2/39

All: 21.784 $\pm$ 0.002 χ^2 /NDF: 71009.3/76

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: 1.069 ± 2.925 χ^2/NDF : 19.7/20

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -1.750 ± 2.938 χ^2/NDF : 22.0/19

Left: -0.334 ± 2.073 χ^2/NDF : 42.2/40

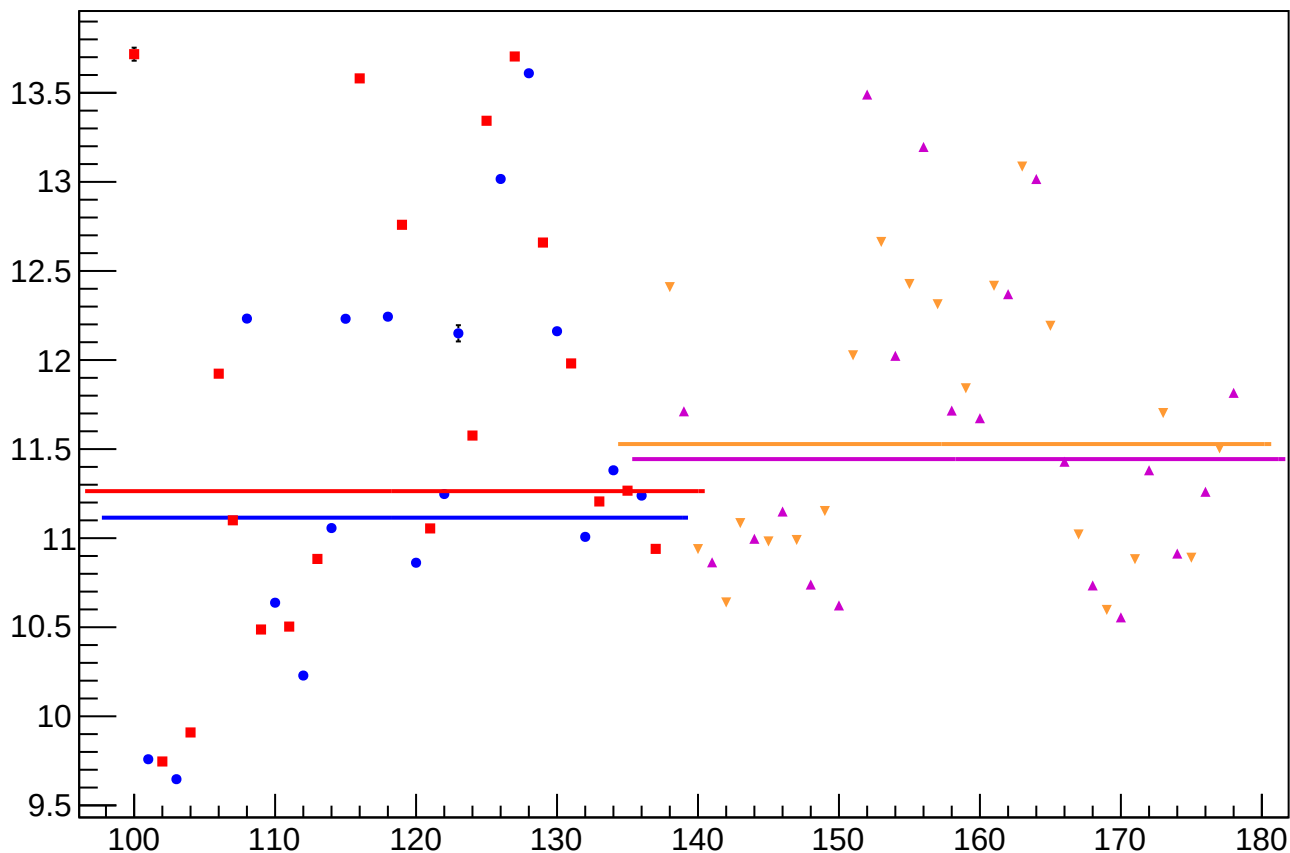
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -2.605 ± 2.431 χ^2/NDF : 37.4/36

Out: 5.392 ± 2.412 χ^2/NDF : 46.1/39

All: 1.425 ± 1.712 χ^2/NDF : 89.0/76

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115 $\pm$ 0.003 χ^2 /NDF: 133059.3/16

Left Out: 11.528 $\pm$ 0.002 χ^2 /NDF:119131.8/20

Right Out: 11.264 $\pm$ 0.003 χ^2 /NDF: 147483.5/18

Left In: 11.444 $\pm$ 0.002 χ^2 /NDF:145248.9/19

Left: 11.486 $\pm$ 0.001 χ^2 /NDF: 265210.6/40

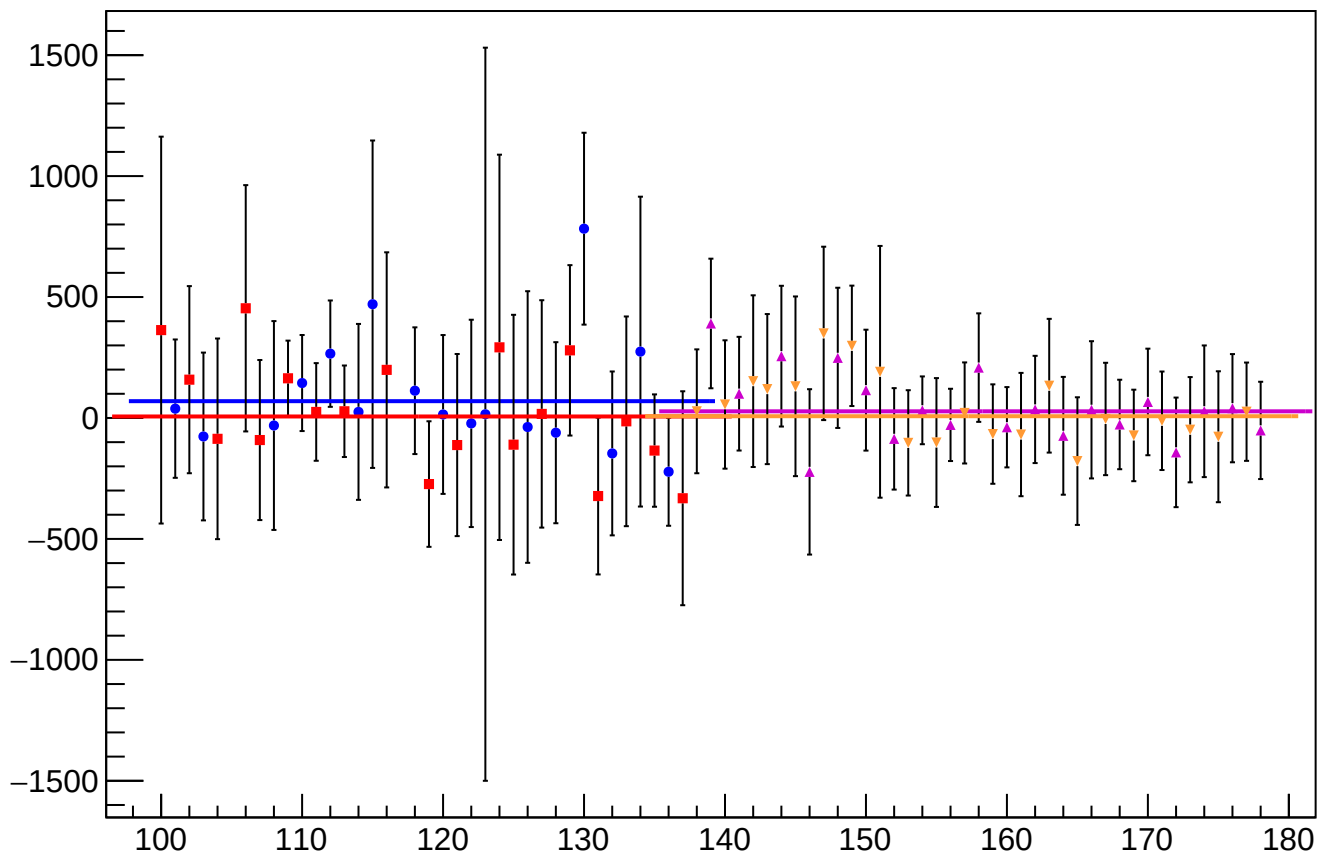
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.340 $\pm$ 0.002 χ^2 /NDF:286207.3/36

Out: 11.444 $\pm$ 0.002 χ^2 /NDF:271842.3/39

All: 11.392 $\pm$ 0.001 χ^2 /NDF: 559879.6/76

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470 $\pm$ 79.231 χ^2 /NDF: 7.3/16

Left Out: 7.277 $\pm$ 54.485 χ^2 /NDF:4.6/20

Right Out: 6.194 $\pm$ 70.182 χ^2 /NDF: 6.5/18

Left In: 27.544 $\pm$ 48.107 χ^2 /NDF:6.0/19

Left: 18.665 $\pm$ 36.062 χ^2 /NDF: 10.7/40

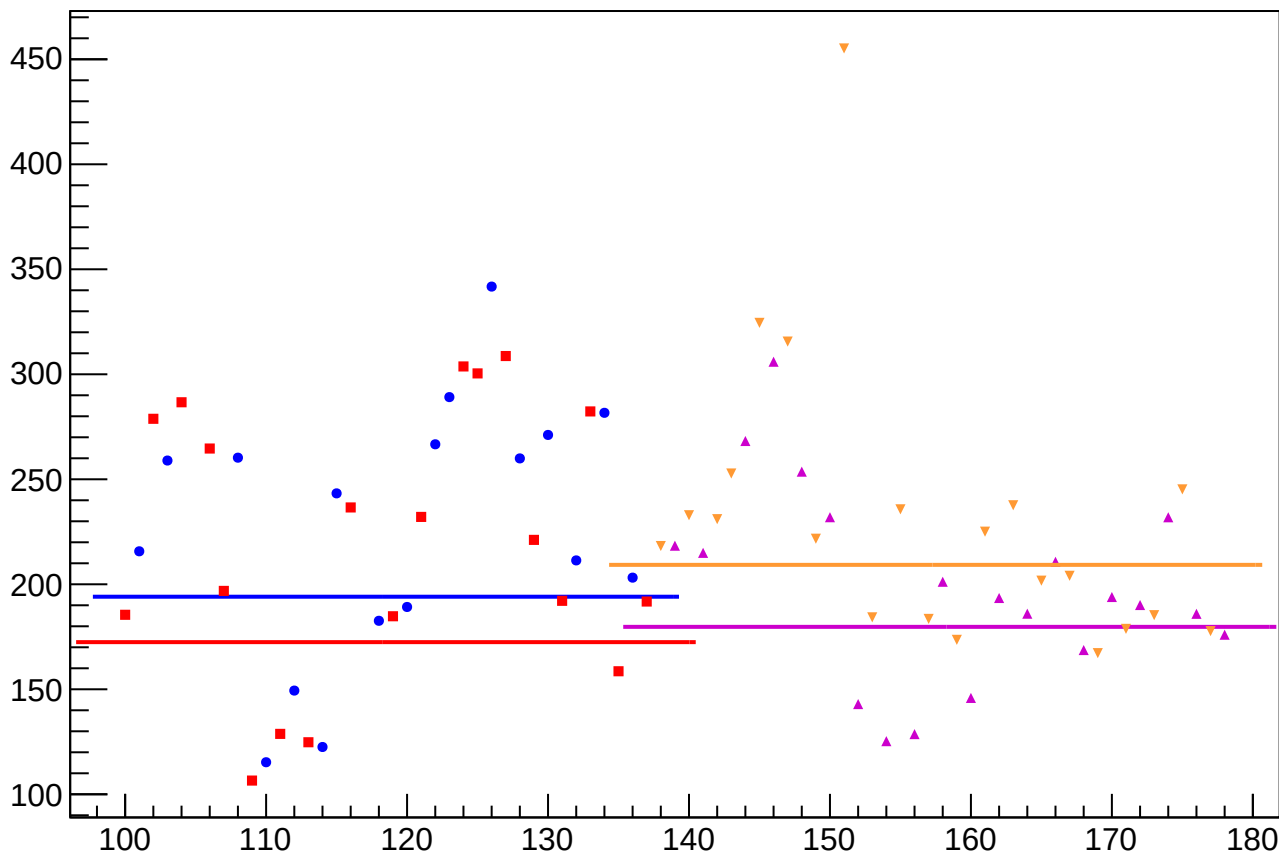
Right: 34.014 $\pm$ 52.536 χ^2 /NDF: 14.1/35

In: 38.837 $\pm$ 41.121 χ^2 /NDF:13.5/36

Out: 6.870 $\pm$ 43.038 χ^2 /NDF:11.0/39

All: 23.581 $\pm$ 29.731 χ^2 /NDF: 24.8/76

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 209.252 $\pm$ 0.039 χ^2 /NDF:1304813.0/20

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 179.732 $\pm$ 0.034 χ^2 /NDF:1588504.8/19

Left: 192.664 $\pm$ 0.025 χ^2 /NDF: 3223212.3/40

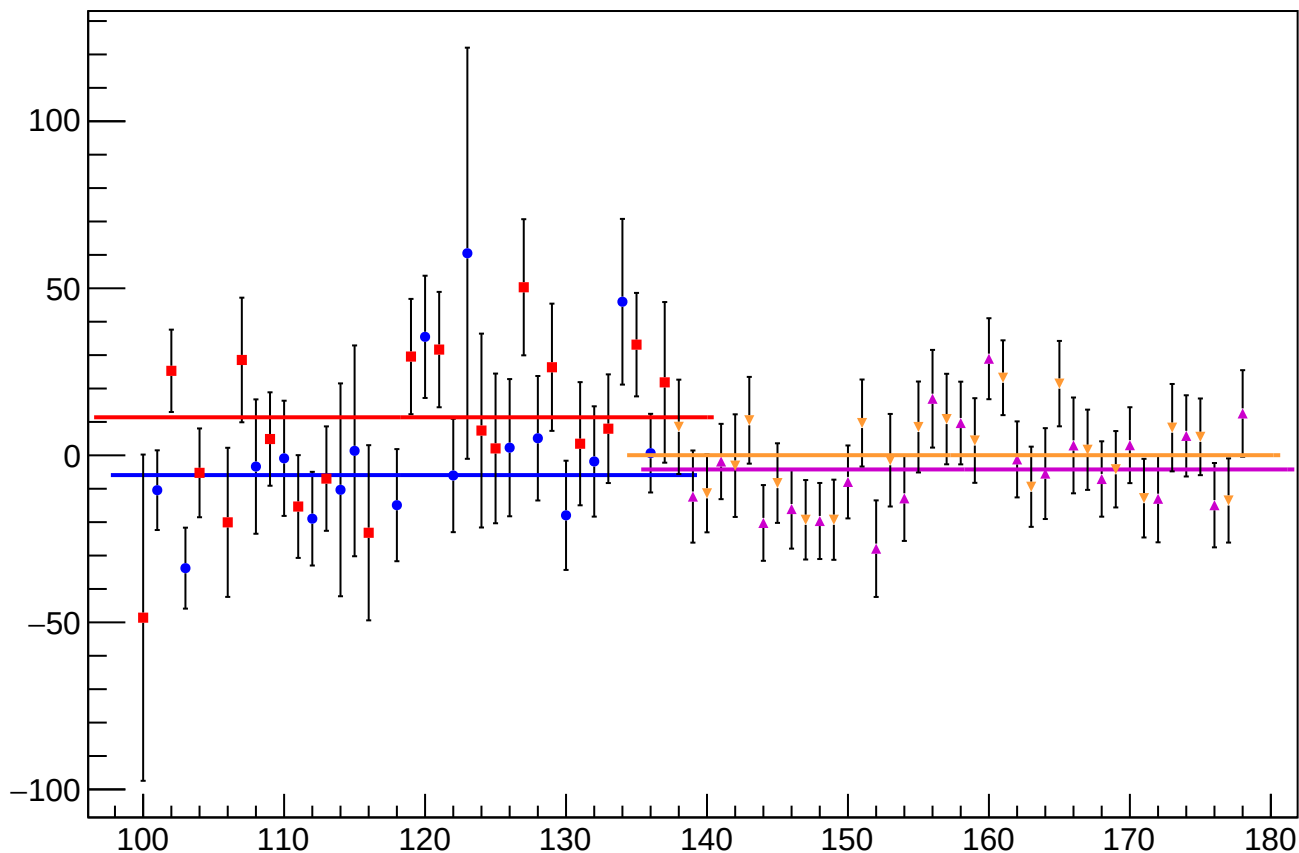
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 183.597 $\pm$ 0.029 χ^2 /NDF:2641830.3/36

Out: 195.413 $\pm$ 0.030 χ^2 /NDF:3217374.8/39

All: 189.236 $\pm$ 0.021 χ^2 /NDF: 5938010.9/76

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 ± 4.133 χ^2/NDF : 18.8/16

Left Out: 0.044 ± 2.728 χ^2/NDF : 20.3/20

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -4.224 ± 2.757 χ^2/NDF : 23.7/19

Left: -2.068 ± 1.939 χ^2/NDF : 45.2/40

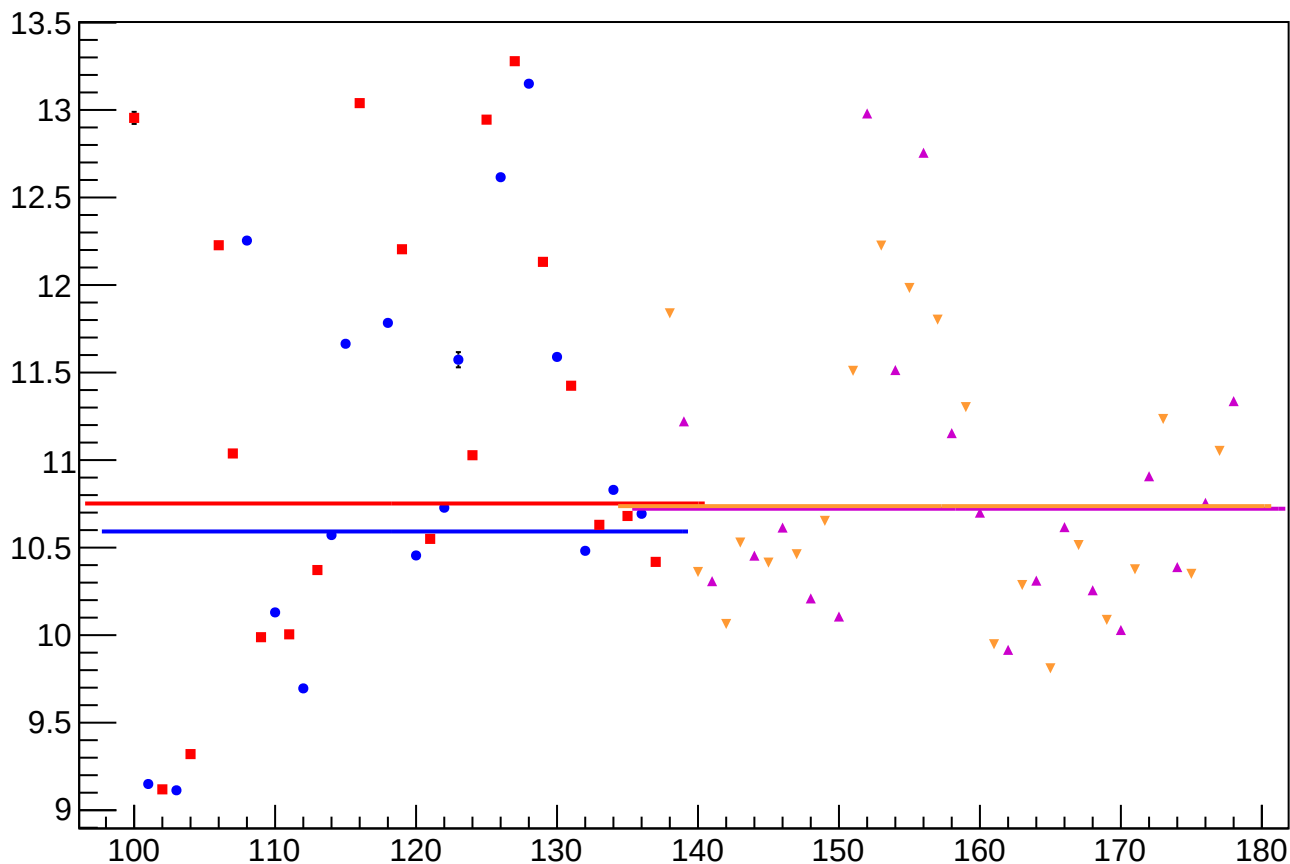
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -4.744 ± 2.293 χ^2/NDF : 42.6/36

Out: 3.552 ± 2.268 χ^2/NDF : 48.5/39

All: -0.549 ± 1.613 χ^2/NDF : 97.7/76

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.592 ± 0.003 χ^2/NDF : 160397.9/16

Left Out: 10.737 ± 0.002 χ^2/NDF : 123182.5/20

Right Out: 10.752 ± 0.003 χ^2/NDF : 176895.3/18

Left In: 10.722 ± 0.002 χ^2/NDF : 143906.0/19

Left: 10.730 ± 0.001 χ^2/NDF : 267117.9/40

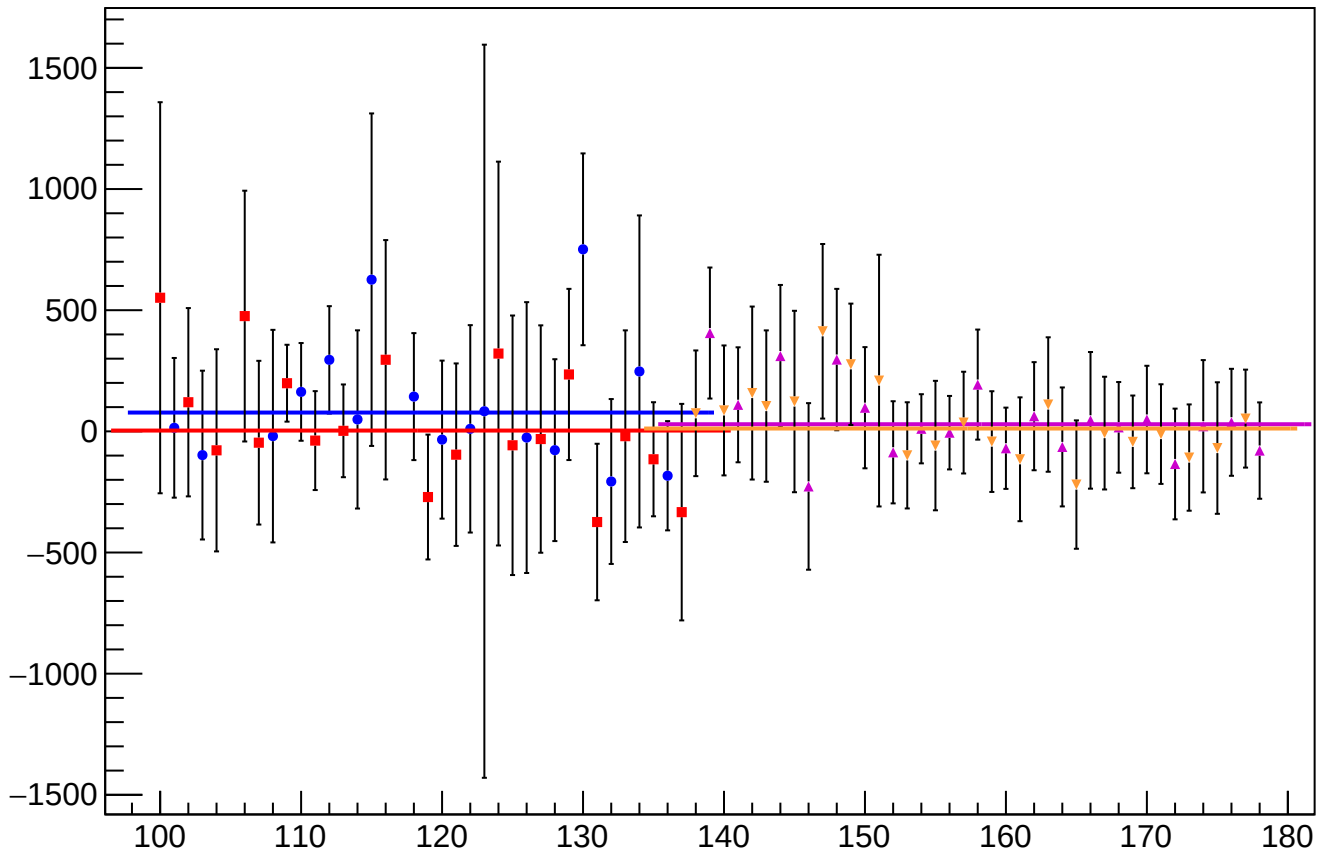
Right: 10.673 ± 0.002 χ^2/NDF : 338807.3/35

In: 10.682 ± 0.002 χ^2/NDF : 305670.2/36

Out: 10.742 ± 0.002 χ^2/NDF : 300096.7/39

All: 10.712 ± 0.001 χ^2/NDF : 606447.3/76

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: 11.678 $\pm$ 54.807 χ^2 /NDF:5.1/20

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 29.379 $\pm$ 48.459 χ^2 /NDF:6.7/19

Left: 21.612 $\pm$ 36.304 χ^2 /NDF: 11.8/40

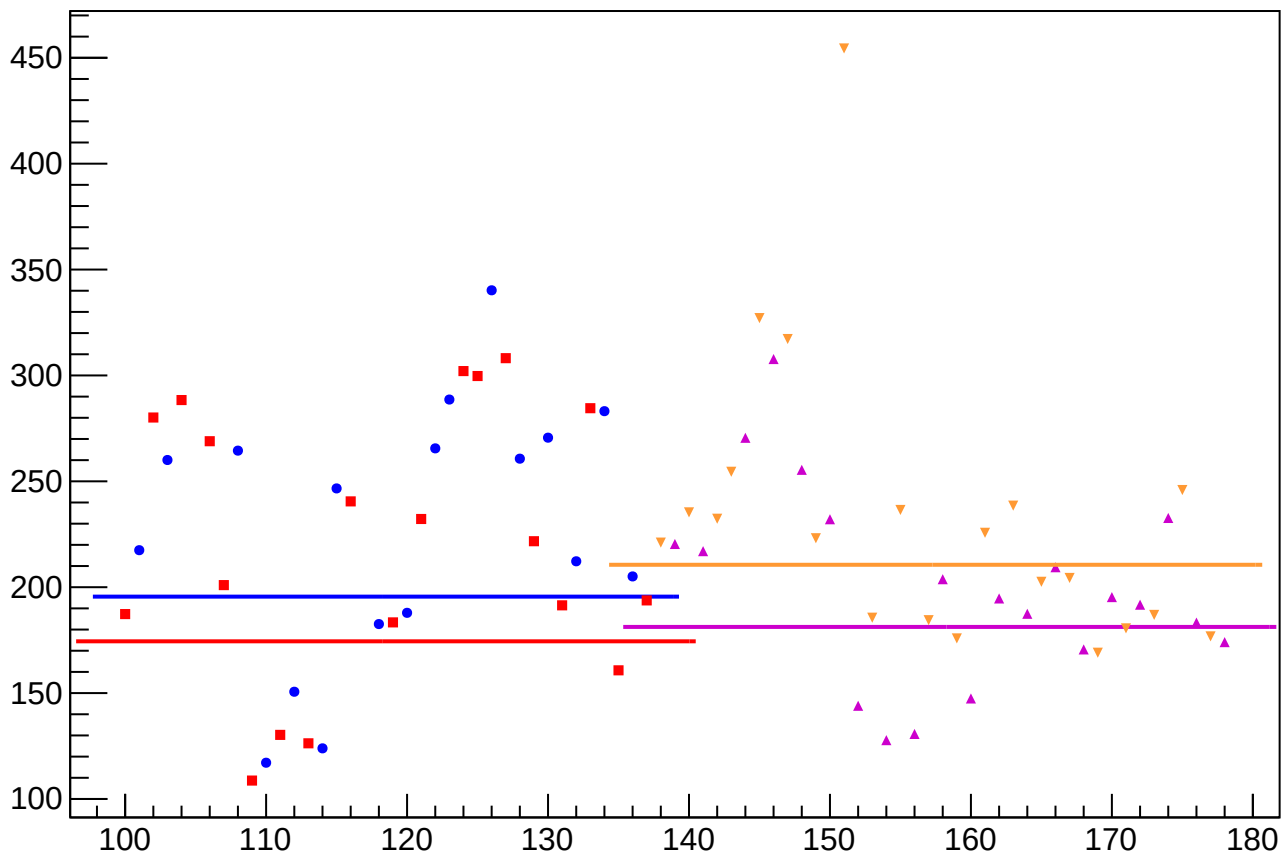
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 42.379 $\pm$ 41.413 χ^2 /NDF:14.5/36

Out: 8.544 $\pm$ 43.351 χ^2 /NDF:12.4/39

All: 26.235 $\pm$ 29.945 χ^2 /NDF: 27.2/76

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551 $\pm$ 0.056 χ^2 /NDF: 979937.7/16

Left Out: 210.591 $\pm$ 0.039 χ^2 /NDF:1294191.5/20

Right Out: 174.449 $\pm$ 0.050 χ^2 /NDF: 1528629.1/18

Left In: 181.248 $\pm$ 0.034 χ^2 /NDF:1542761.5/19

Left: 194.122 $\pm$ 0.026 χ^2 /NDF: 3158700.1/40

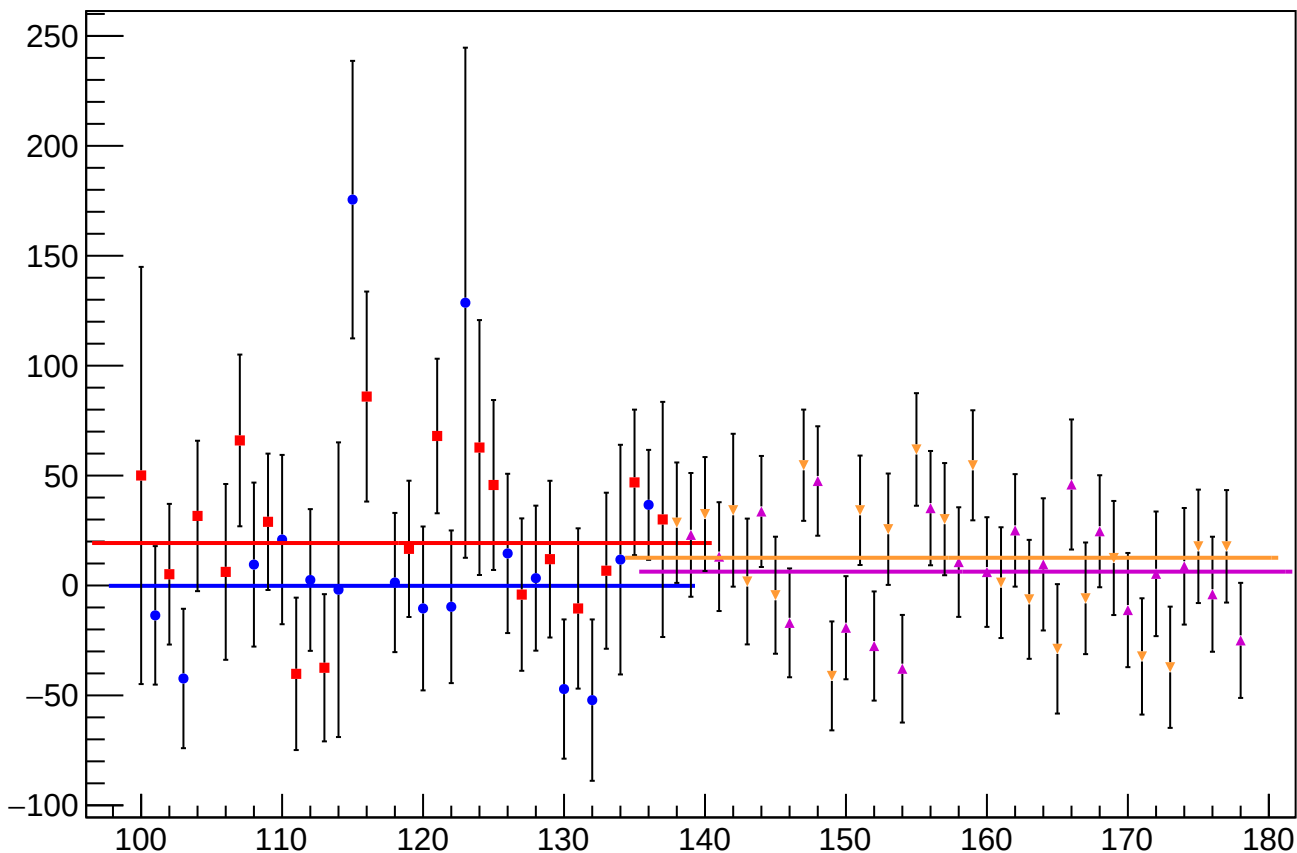
Right: 183.758 $\pm$ 0.037 χ^2 /NDF: 2586820.6/35

In: 185.105 $\pm$ 0.029 χ^2 /NDF:2569684.6/36

Out: 197.061 $\pm$ 0.031 χ^2 /NDF:3148386.7/39

All: 190.810 $\pm$ 0.021 χ^2 /NDF: 5797619.1/76

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.158 ± 8.826 χ^2/NDF : 18.1/16

Left Out: 12.610 ± 5.754 χ^2/NDF : 26.8/20

Right Out: 19.316 ± 8.554 χ^2/NDF : 14.8/18

Left In: 6.289 ± 5.784 χ^2/NDF : 17.7/19

Left: 9.465 ± 4.079 χ^2/NDF : 45.1/40

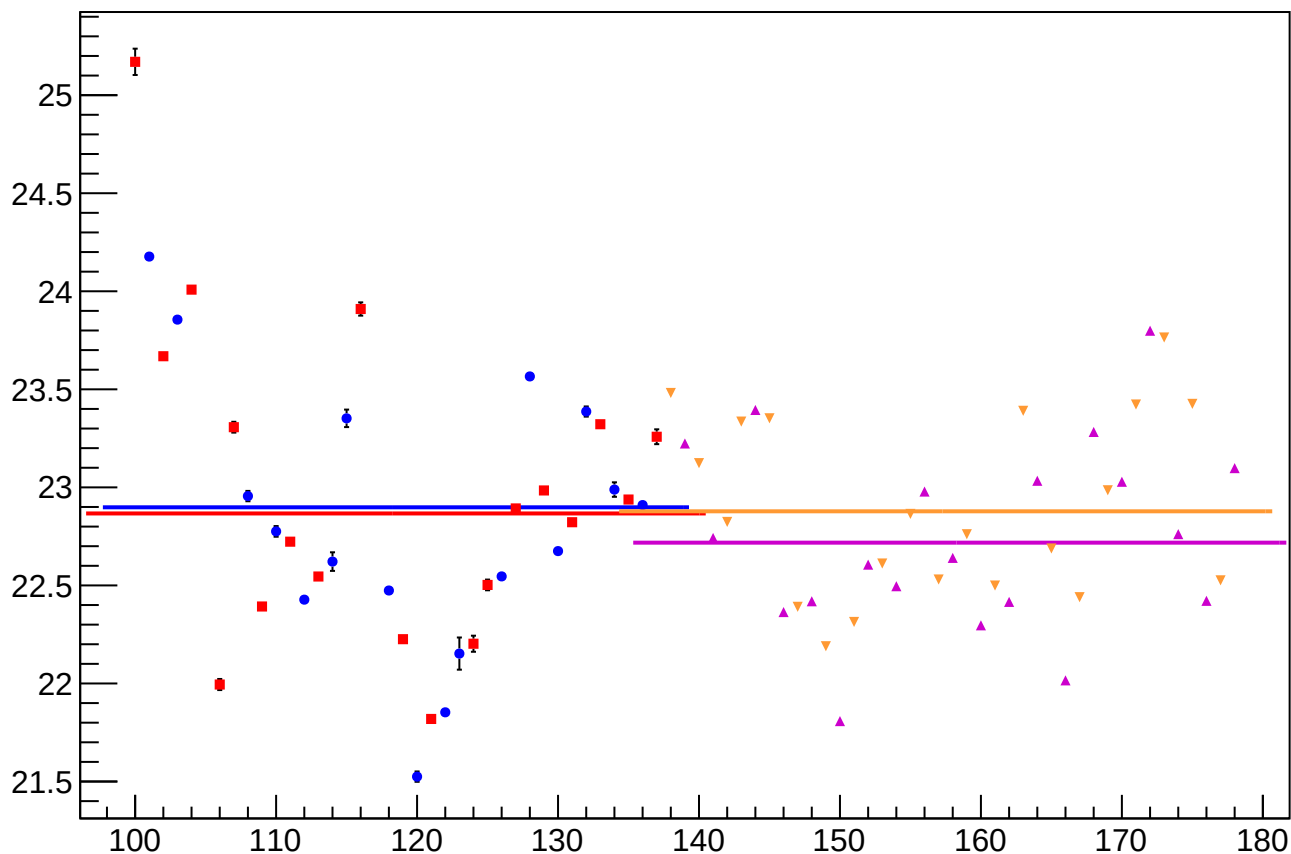
Right: 9.884 ± 6.142 χ^2/NDF : 35.4/35

In: 4.352 ± 4.838 χ^2/NDF : 36.1/36

Out: 14.699 ± 4.774 χ^2/NDF : 42.0/39

All: 9.594 ± 3.398 χ^2/NDF : 80.5/76

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.898 $\pm$ 0.006 χ^2/NDF : 12143.3/16

Left Out: 22.878 $\pm$ 0.004 χ^2/NDF :12324.1/20

Right Out: 22.867 $\pm$ 0.006 χ^2/NDF : 11048.4/18

Left In: 22.718 $\pm$ 0.004 χ^2/NDF :13272.4/19

Left: 22.798 $\pm$ 0.003 χ^2/NDF : 26364.4/40

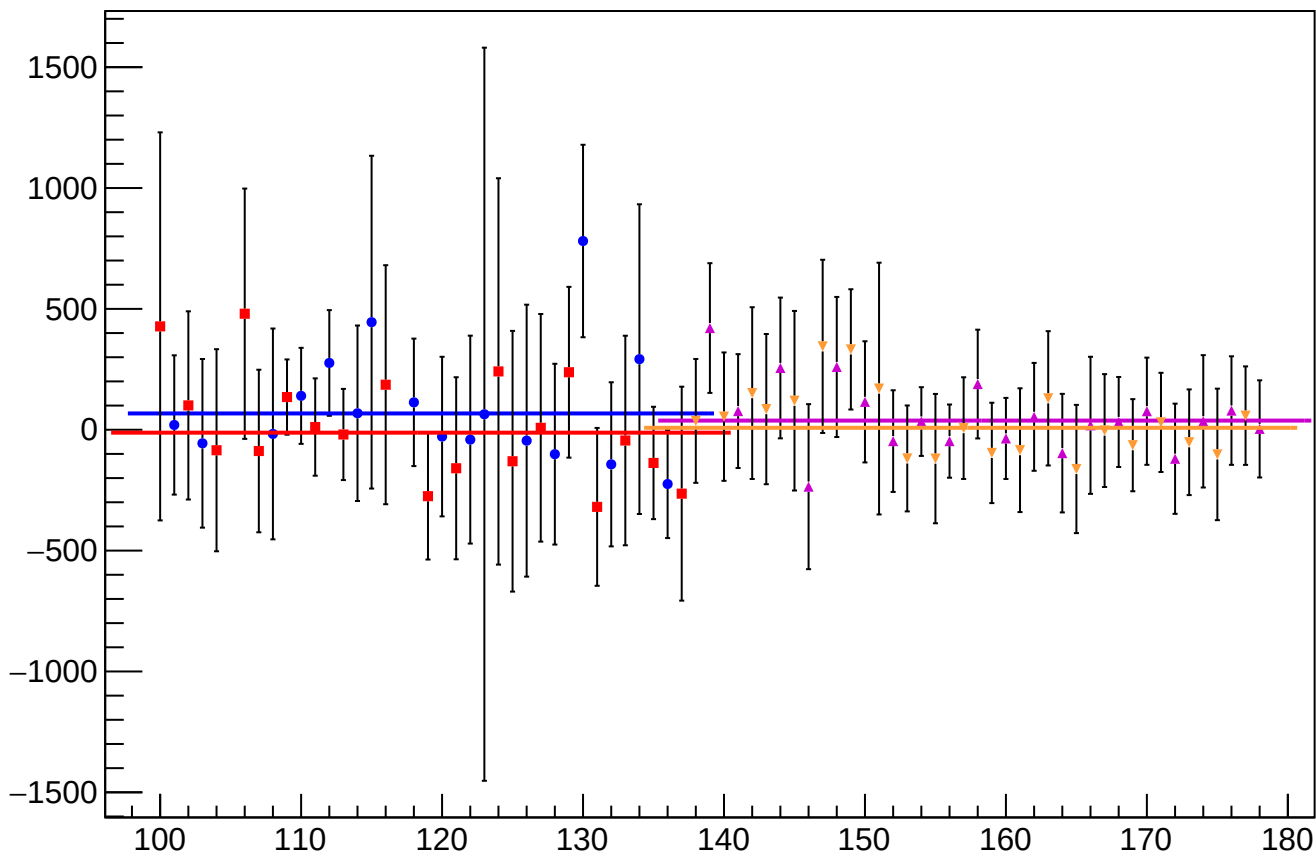
Right: 22.882 $\pm$ 0.004 χ^2/NDF : 23204.7/35

In: 22.772 $\pm$ 0.003 χ^2/NDF :25999.5/36

Out: 22.875 $\pm$ 0.003 χ^2/NDF :23374.8/39

All: 22.824 $\pm$ 0.002 χ^2/NDF : 49827.3/76

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.449 $\pm$ 79.404 χ^2 /NDF: 7.4/16

Left Out: 8.059 $\pm$ 54.738 χ^2 /NDF:5.0/20

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 37.899 $\pm$ 48.416 χ^2 /NDF:6.0/19

Left: 24.801 $\pm$ 36.265 χ^2 /NDF: 11.2/40

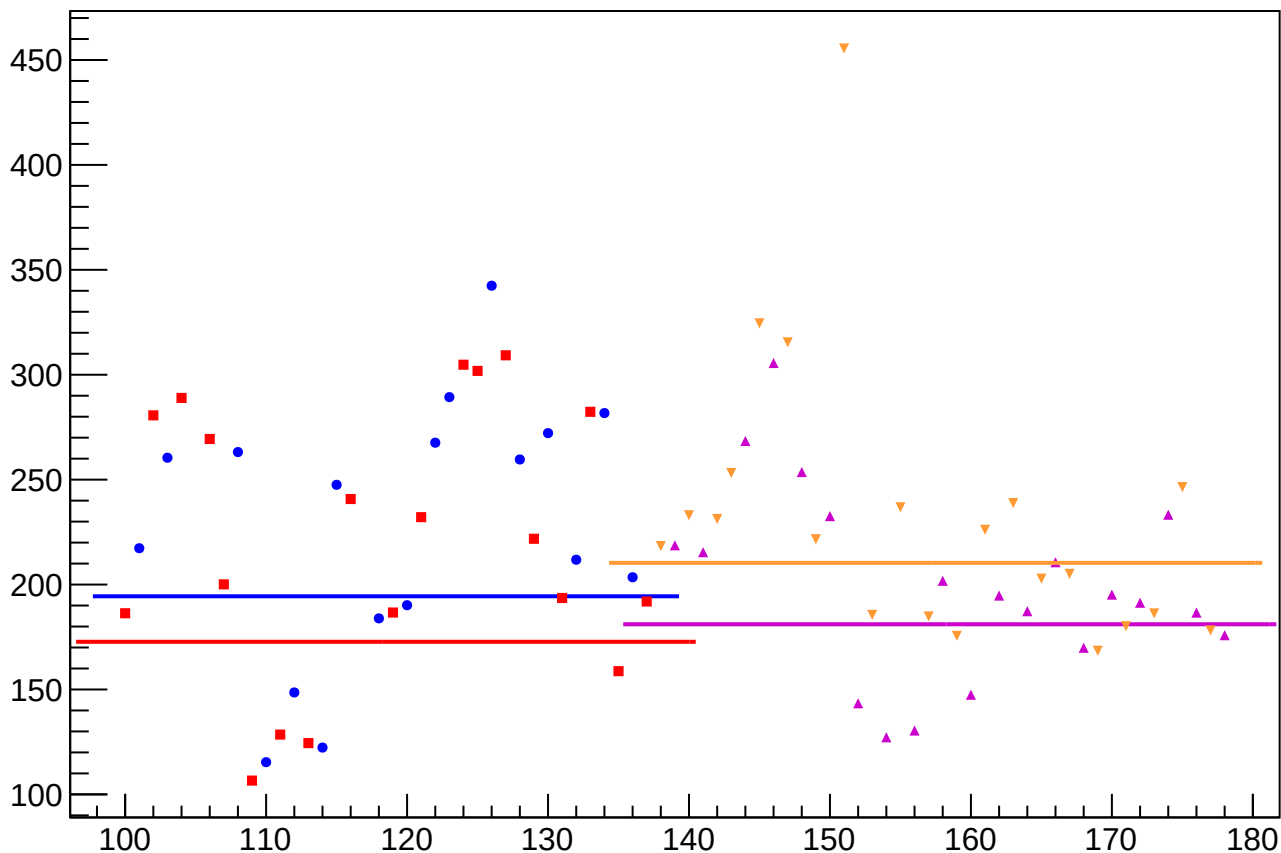
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 45.908 $\pm$ 41.338 χ^2 /NDF:13.4/36

Out: 0.451 $\pm$ 43.202 χ^2 /NDF:10.8/39

All: 24.182 $\pm$ 29.868 χ^2 /NDF: 24.9/76

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: 210.344 $\pm$ 0.039 χ^2 /NDF:1281163.4/20

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 181.079 $\pm$ 0.034 χ^2 /NDF:1535425.7/19

Left: 193.924 $\pm$ 0.026 χ^2 /NDF: 3137328.0/40

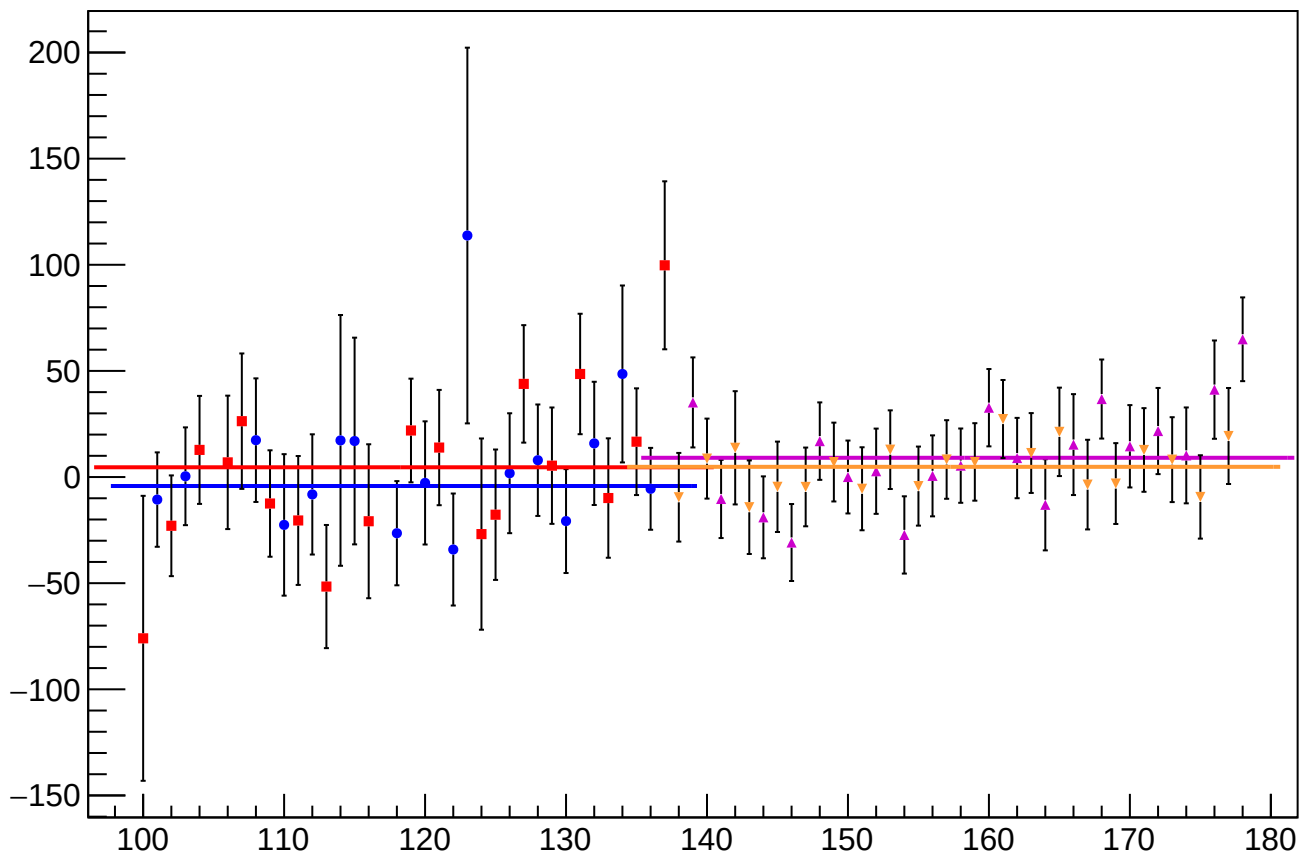
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 184.692 $\pm$ 0.029 χ^2 /NDF:2596437.5/36

Out: 196.161 $\pm$ 0.031 χ^2 /NDF:3234013.4/39

All: 190.174 $\pm$ 0.021 χ^2 /NDF: 5904030.1/76

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 $\chi^2/\text{NDF}: 8.0/16$

Left Out: 4.811 ± 4.318 $\chi^2/\text{NDF}: 6.3/20$

Right Out: 4.599 ± 6.725 $\chi^2/\text{NDF}: 21.1/18$

Left In: 9.073 ± 4.347 $\chi^2/\text{NDF}: 29.8/19$

Left: 6.928 ± 3.064 $\chi^2/\text{NDF}: 36.6/40$

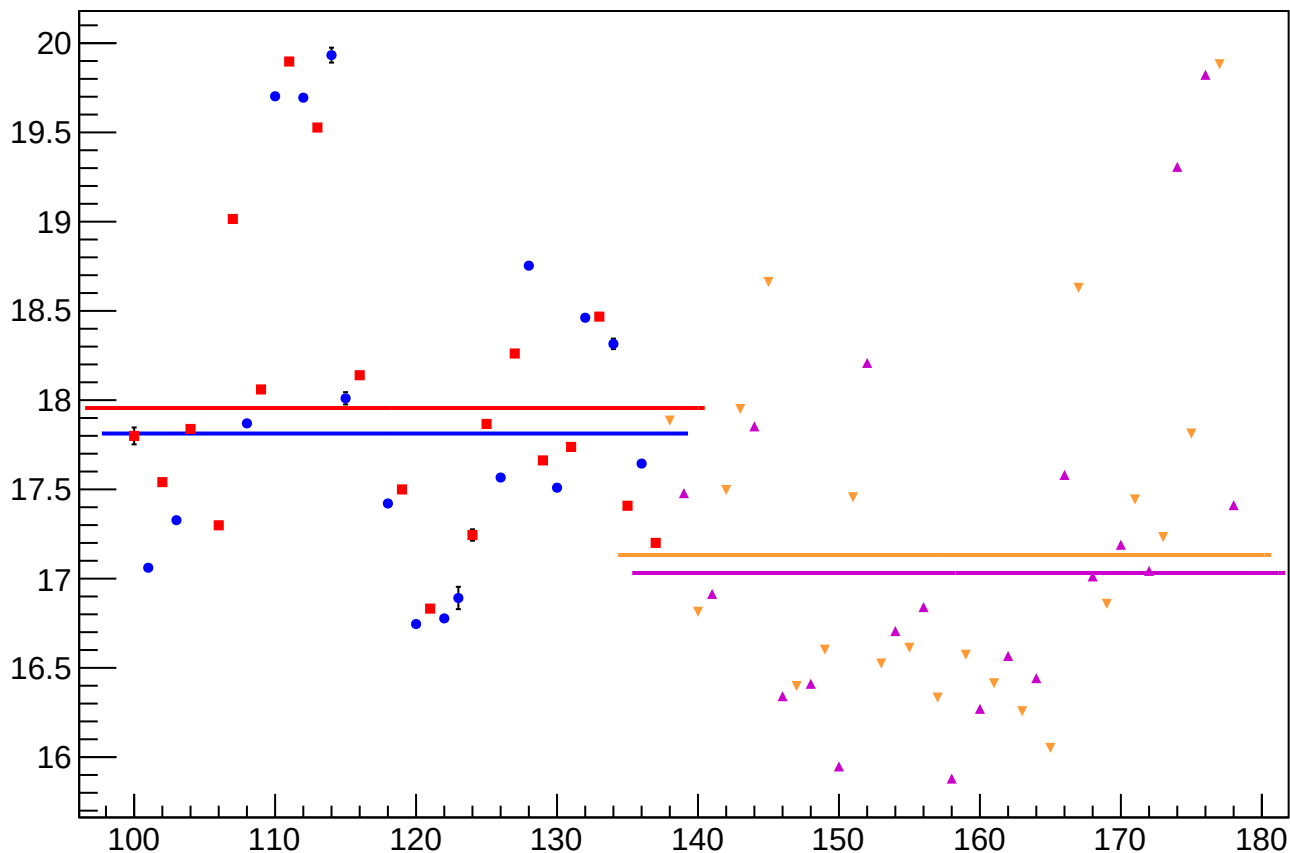
Right: 0.283 ± 4.806 $\chi^2/\text{NDF}: 29.9/35$

In: 5.272 ± 3.674 $\chi^2/\text{NDF}: 40.5/36$

Out: 4.749 ± 3.634 $\chi^2/\text{NDF}: 27.4/39$

All: 5.008 ± 2.583 $\chi^2/\text{NDF}: 67.9/76$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 $\pm$ 0.005 χ^2 /NDF: 32034.8/16

Left Out: 17.132 $\pm$ 0.003 χ^2 /NDF: 86980.8/20

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 17.032 $\pm$ 0.003 χ^2 /NDF: 91666.1/19

Left: 17.082 $\pm$ 0.002 χ^2 /NDF: 179186.0/40

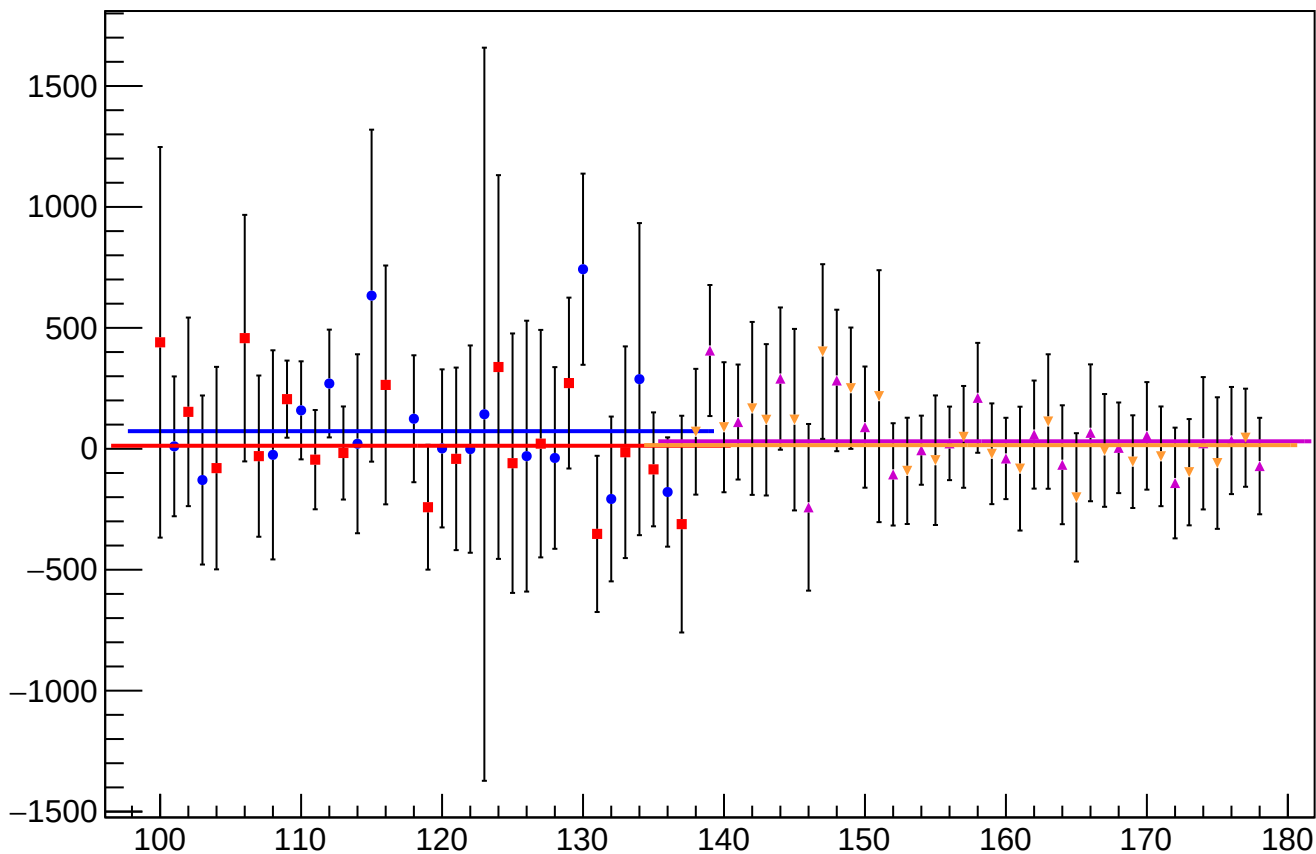
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.255 $\pm$ 0.003 χ^2 /NDF: 142162.3/36

Out: 17.373 $\pm$ 0.003 χ^2 /NDF: 133664.3/39

All: 17.315 $\pm$ 0.002 χ^2 /NDF: 276864.7/76

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888 $\pm$ 79.948 χ^2 /NDF: 7.2/16

Left Out: 15.061 $\pm$ 54.933 χ^2 /NDF:4.5/20

Right Out: 12.565 $\pm$ 71.013 χ^2 /NDF: 6.7/18

Left In: 31.041 $\pm$ 48.564 χ^2 /NDF:6.6/19

Left: 24.031 $\pm$ 36.384 χ^2 /NDF: 11.1/40

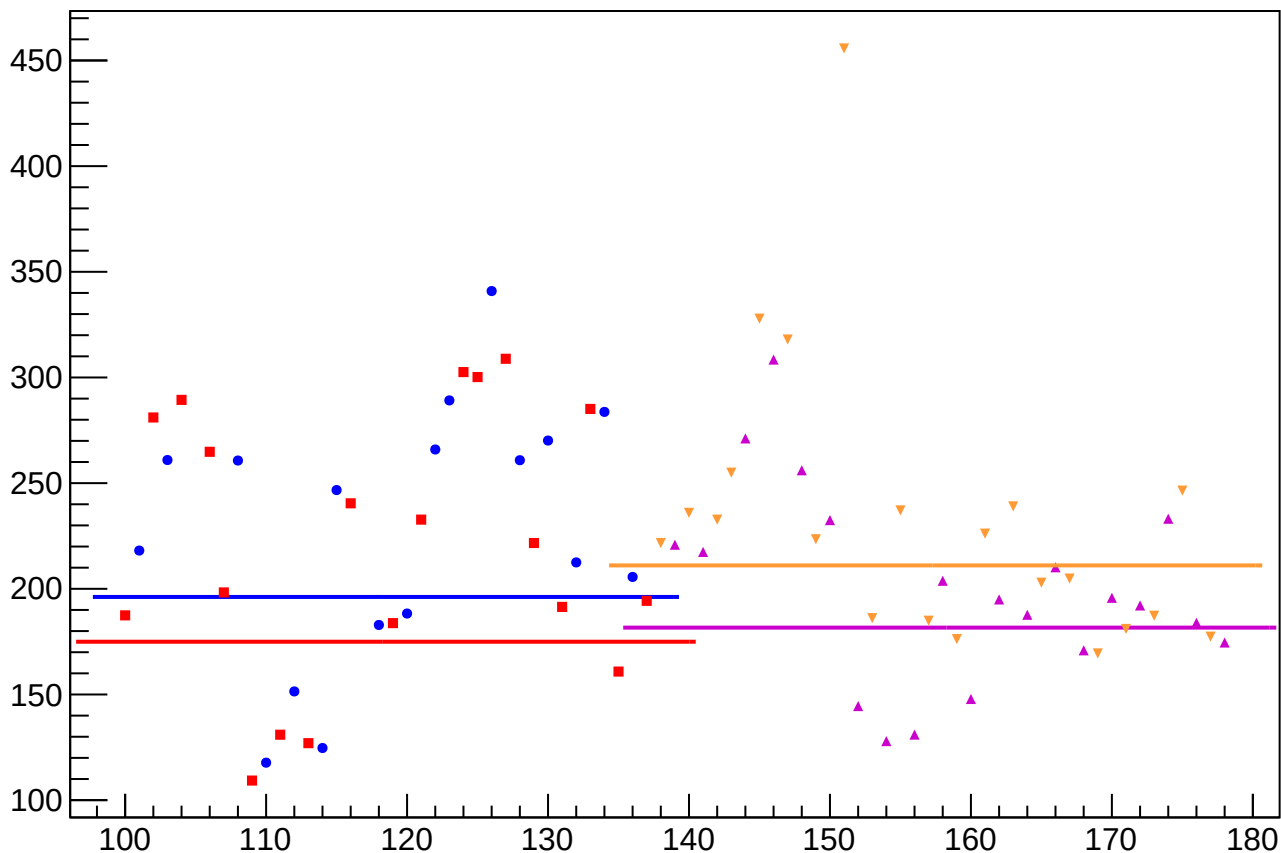
Right: 39.168 $\pm$ 53.093 χ^2 /NDF: 14.3/35

In: 42.320 $\pm$ 41.506 χ^2 /NDF:14.0/36

Out: 14.127 $\pm$ 43.450 χ^2 /NDF:11.2/39

All: 28.868 $\pm$ 30.013 χ^2 /NDF: 25.4/76

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.151 $\pm$ 0.057 χ^2 /NDF: 964998.4/16

Left Out: 211.076 $\pm$ 0.039 χ^2 /NDF:1293656.0/20

Right Out: 174.965 $\pm$ 0.050 χ^2 /NDF: 1510956.5/18

Left In: 181.639 $\pm$ 0.034 χ^2 /NDF:1542405.4/19

Left: 194.553 $\pm$ 0.026 χ^2 /NDF: 3158438.0/40

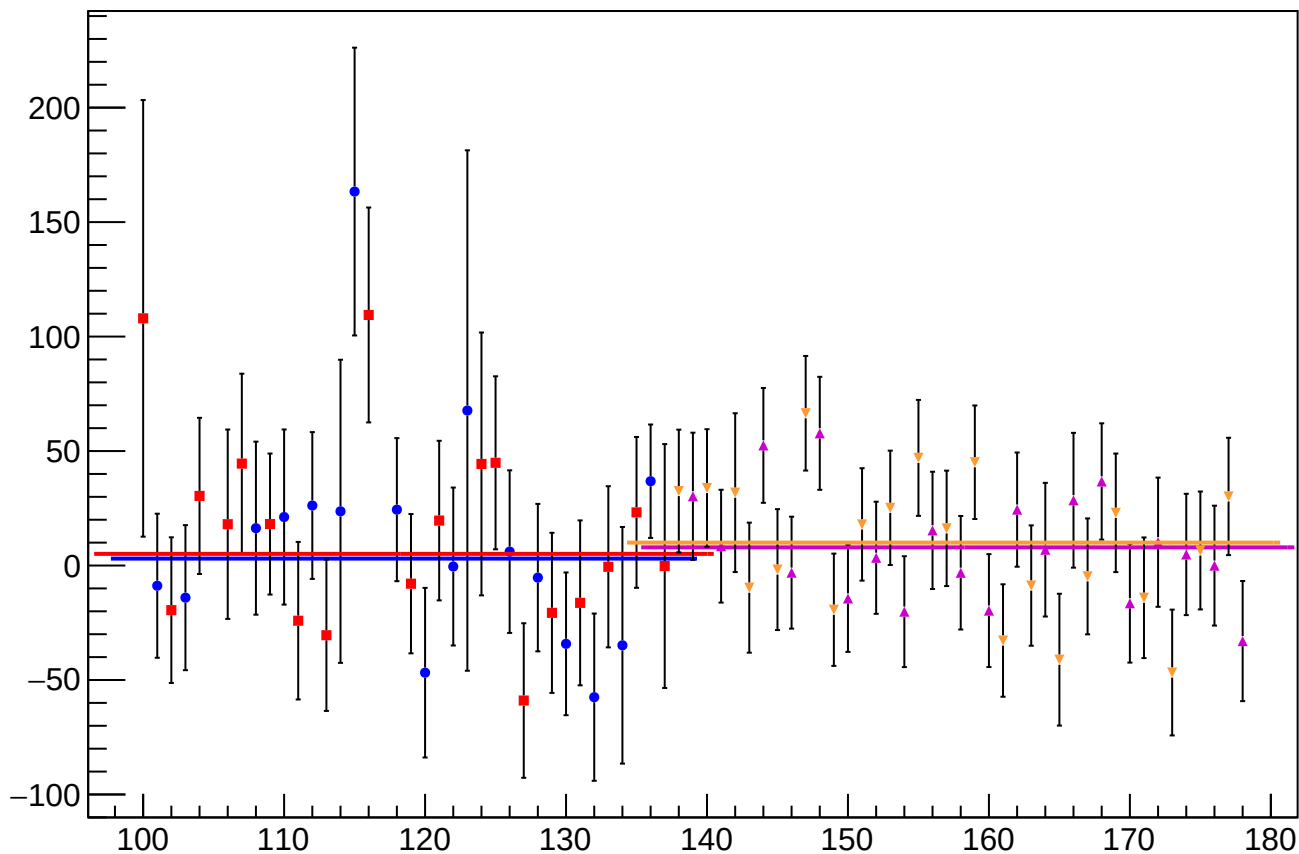
Right: 184.308 $\pm$ 0.038 χ^2 /NDF: 2554463.3/35

In: 185.550 $\pm$ 0.029 χ^2 /NDF:2555540.9/36

Out: 197.557 $\pm$ 0.031 χ^2 /NDF:3128174.5/39

All: 191.279 $\pm$ 0.021 χ^2 /NDF: 5763568.3/76

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 10.016 ± 5.693 $\chi^2/\text{NDF}: 26.9/20$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 7.933 ± 5.734 $\chi^2/\text{NDF}: 17.6/19$

Left: 8.982 ± 4.040 $\chi^2/\text{NDF}: 44.5/40$

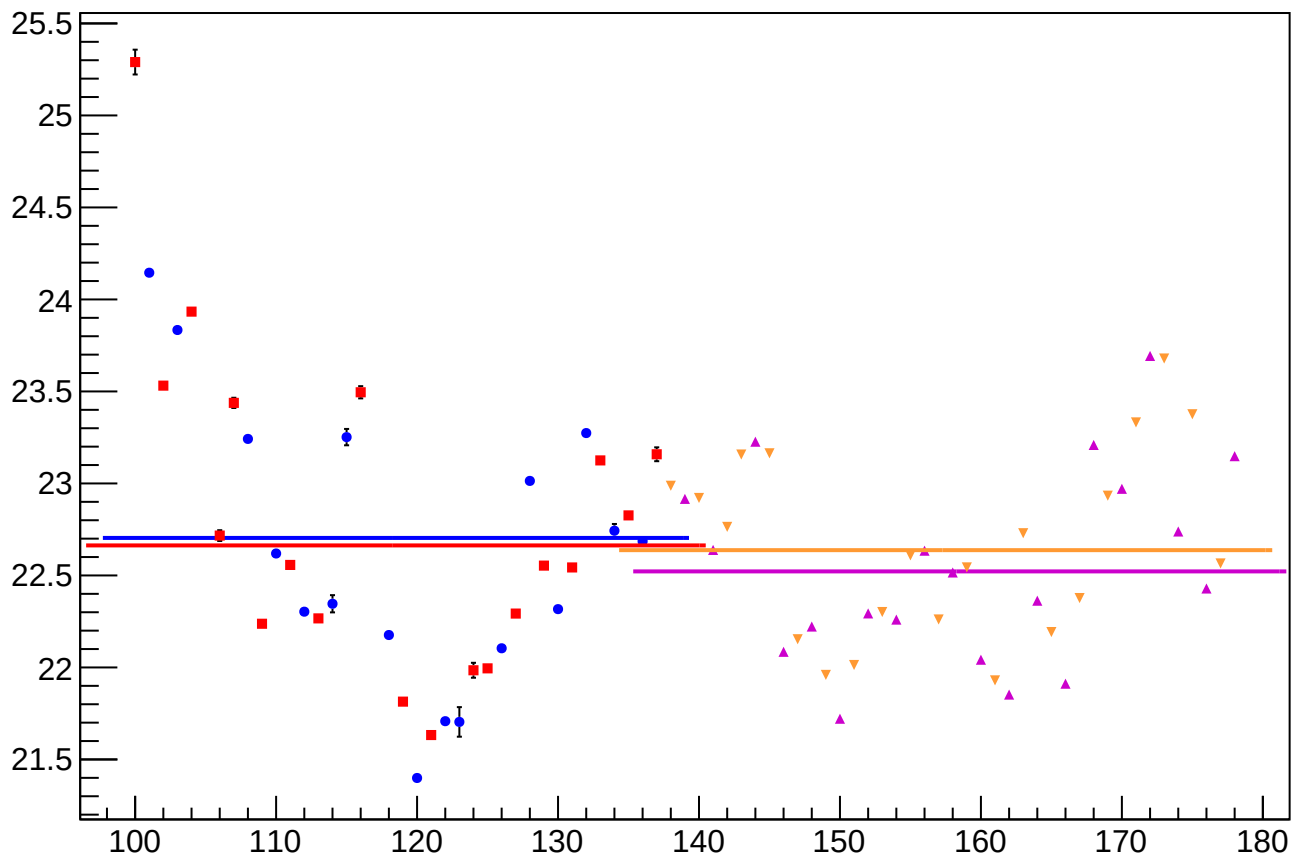
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 6.458 ± 4.796 $\chi^2/\text{NDF}: 34.9/36$

Out: 8.486 ± 4.726 $\chi^2/\text{NDF}: 44.3/39$

All: 7.487 ± 3.366 $\chi^2/\text{NDF}: 79.3/76$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.704 $\pm$ 0.006 χ^2 /NDF: 14105.8/16

Left Out: 22.637 $\pm$ 0.004 χ^2 /NDF:15045.0/20

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.522 $\pm$ 0.004 χ^2 /NDF:15681.7/19

Left: 22.580 $\pm$ 0.003 χ^2 /NDF: 31135.0/40

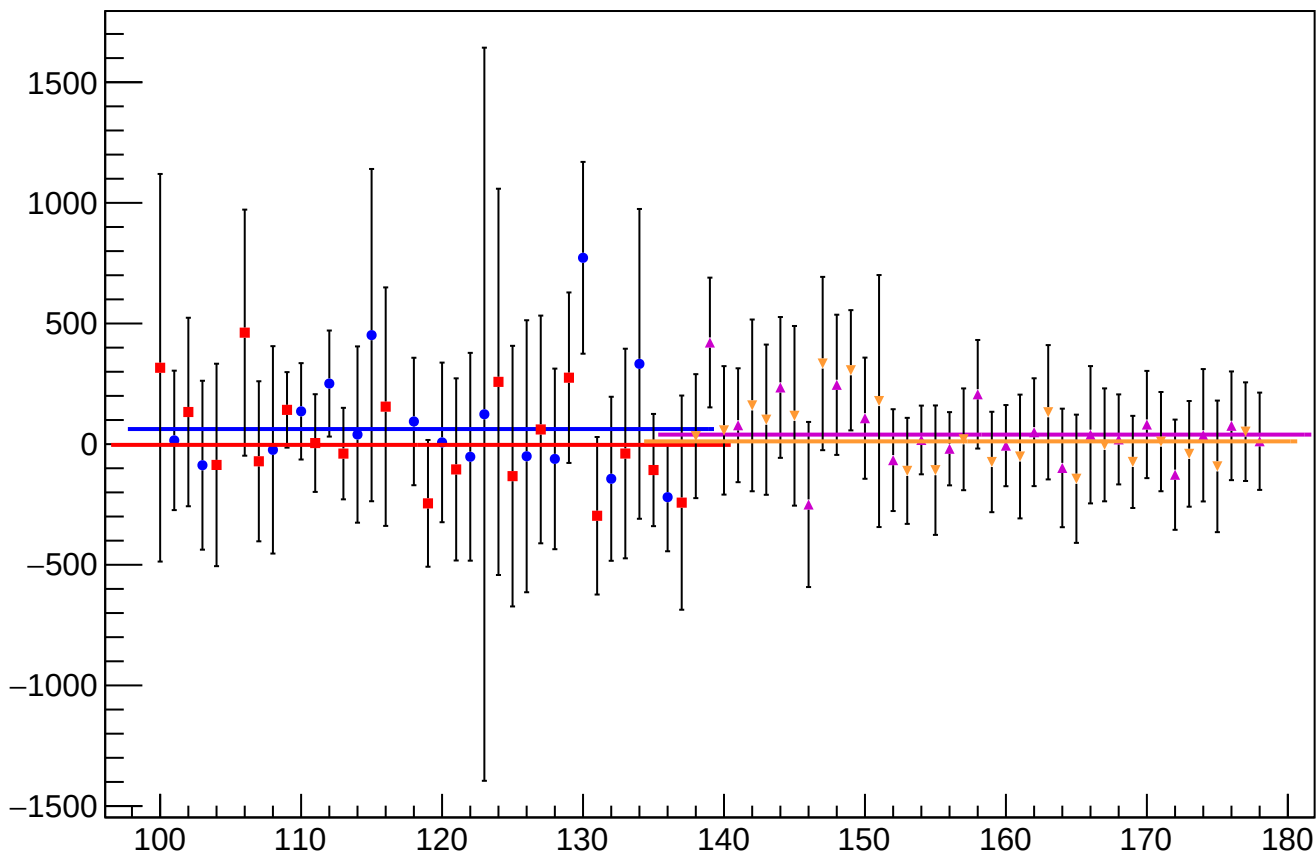
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.577 $\pm$ 0.003 χ^2 /NDF:30392.2/36

Out: 22.645 $\pm$ 0.003 χ^2 /NDF:28001.1/39

All: 22.612 $\pm$ 0.002 χ^2 /NDF: 58602.2/76

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 62.573+/-79.605 χ^2/NDF : 7.0/16

Left Out: 11.514+/-54.864 χ^2/NDF : 4.4/20

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 39.514+/-48.520 χ^2/NDF : 5.8/19

Left: 27.226+/-36.346 χ^2/NDF : 10.3/40

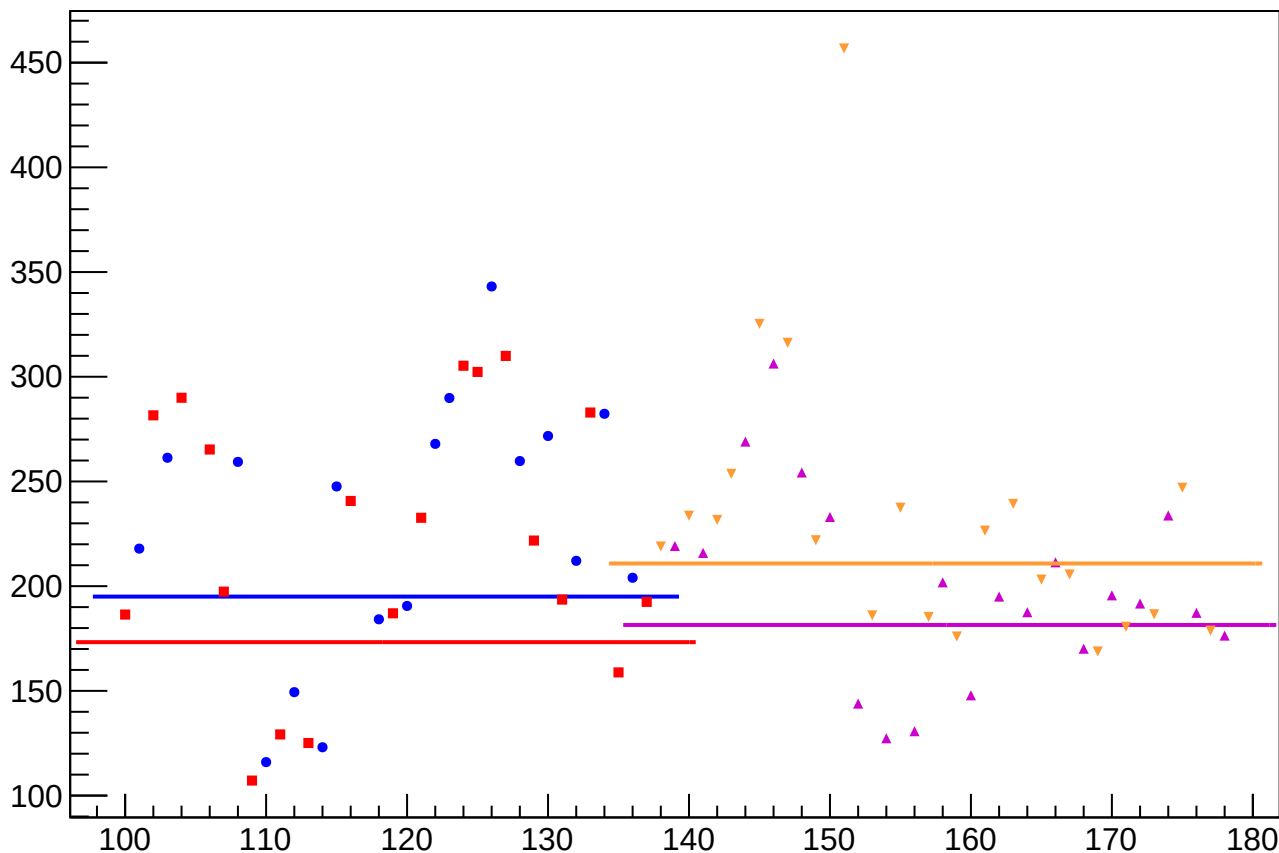
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 45.760+/-41.431 χ^2/NDF : 12.9/36

Out: 6.027+/-43.302 χ^2/NDF : 9.6/39

All: 26.771+/-29.935 χ^2/NDF : 23.0/76

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022 ± 0.056 $\chi^2/\text{NDF}: 1004284.9/16$

Left Out: 210.829 ± 0.039 $\chi^2/\text{NDF}: 1280664.6/20$

Right Out: 173.262 ± 0.050 $\chi^2/\text{NDF}: 1578202.7/18$

Left In: 181.467 ± 0.034 $\chi^2/\text{NDF}: 1535277.3/19$

Left: 194.353 ± 0.026 $\chi^2/\text{NDF}: 3137372.2/40$

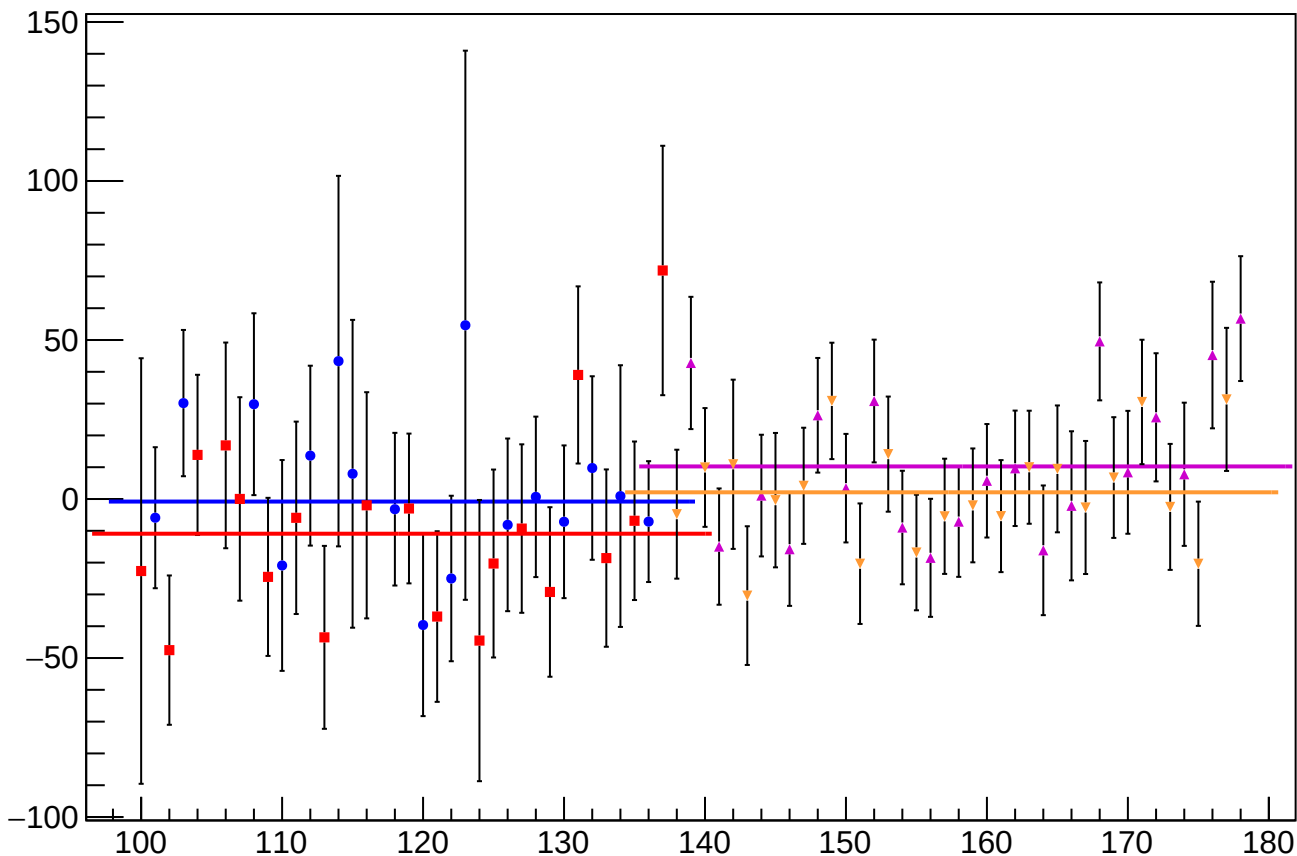
Right: 182.829 ± 0.037 $\chi^2/\text{NDF}: 2666222.6/35$

In: 185.139 ± 0.029 $\chi^2/\text{NDF}: 2581843.2/36$

Out: 196.663 ± 0.031 $\chi^2/\text{NDF}: 3212449.9/39$

All: 190.647 ± 0.021 $\chi^2/\text{NDF}: 5868256.0/76$

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.801 ± 6.770 χ^2/NDF : 7.8/16

Left Out: 2.108 ± 4.234 χ^2/NDF : 14.1/20

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 10.246 ± 4.278 χ^2/NDF : 28.4/19

Left: 6.134 ± 3.009 χ^2/NDF : 44.3/40

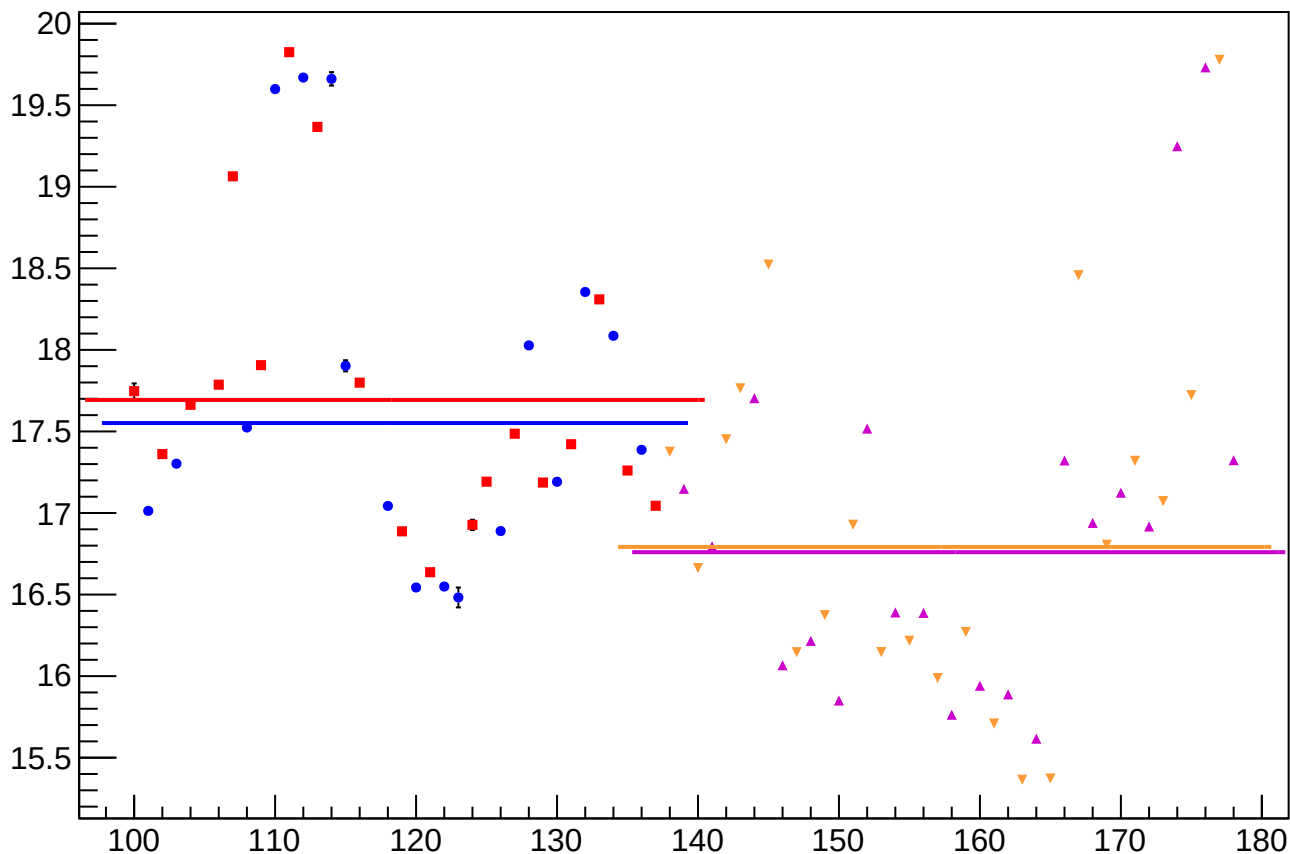
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 7.094 ± 3.616 χ^2/NDF : 38.1/36

Out: -1.666 ± 3.568 χ^2/NDF : 32.7/39

All: 2.654 ± 2.540 χ^2/NDF : 73.8/76

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.552 $\pm$ 0.005 χ^2 /NDF: 34027.1/16

Left Out: 16.792 $\pm$ 0.003 χ^2 /NDF:119083.3/20

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.760 $\pm$ 0.003 χ^2 /NDF:104062.4/19

Left: 16.776 $\pm$ 0.002 χ^2 /NDF: 223202.7/40

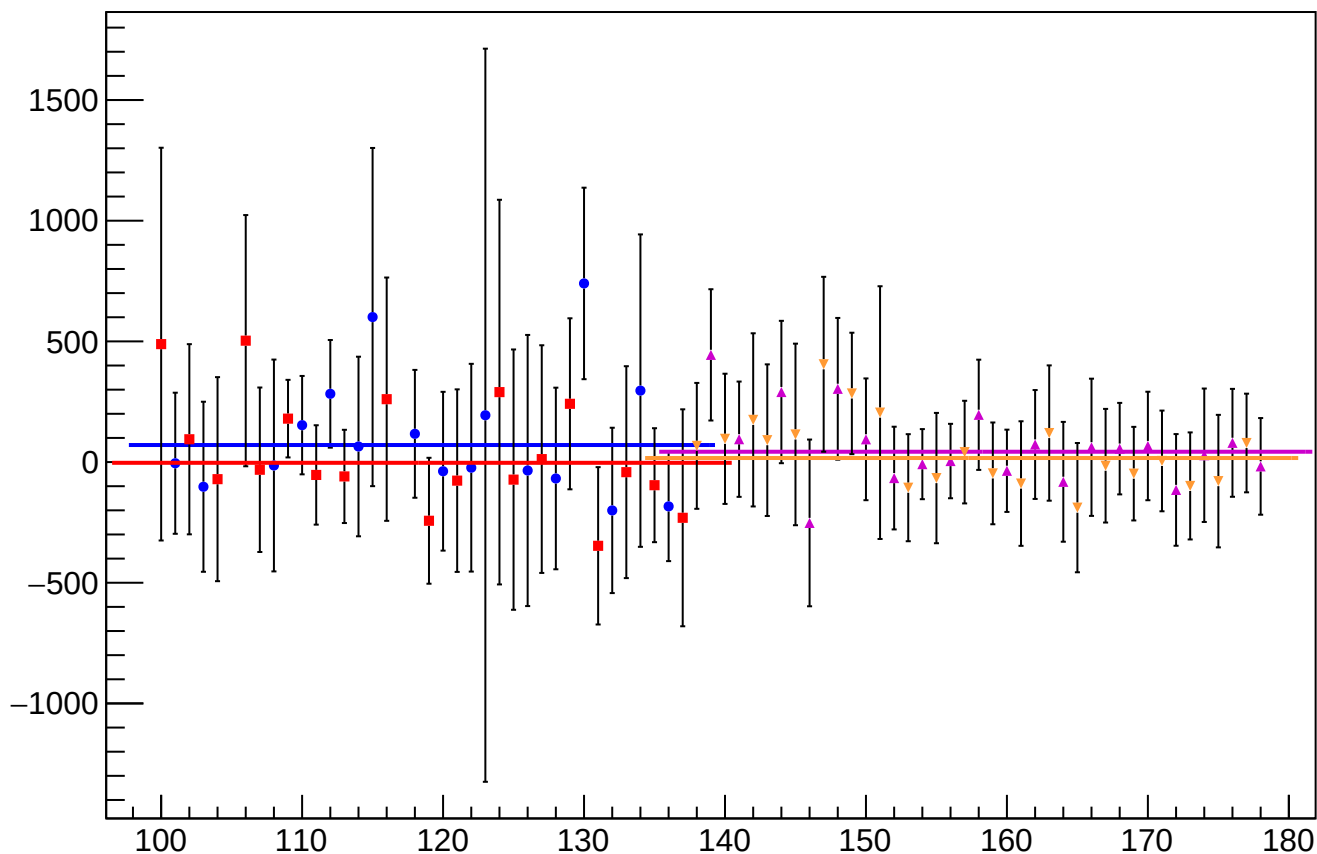
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.986 $\pm$ 0.003 χ^2 /NDF:157626.7/36

Out: 17.053 $\pm$ 0.003 χ^2 /NDF:176099.5/39

All: 17.020 $\pm$ 0.002 χ^2 /NDF: 334079.4/76

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634 $\pm$ 80.409 χ^2 /NDF: 7.2/16

Left Out: 16.766 $\pm$ 55.384 χ^2 /NDF:4.9/20

Right Out: -3.063 $\pm$ 71.508 χ^2 /NDF: 6.2/18

Left In: 42.792 $\pm$ 49.026 χ^2 /NDF:6.5/19

Left: 31.358 $\pm$ 36.710 χ^2 /NDF: 11.5/40

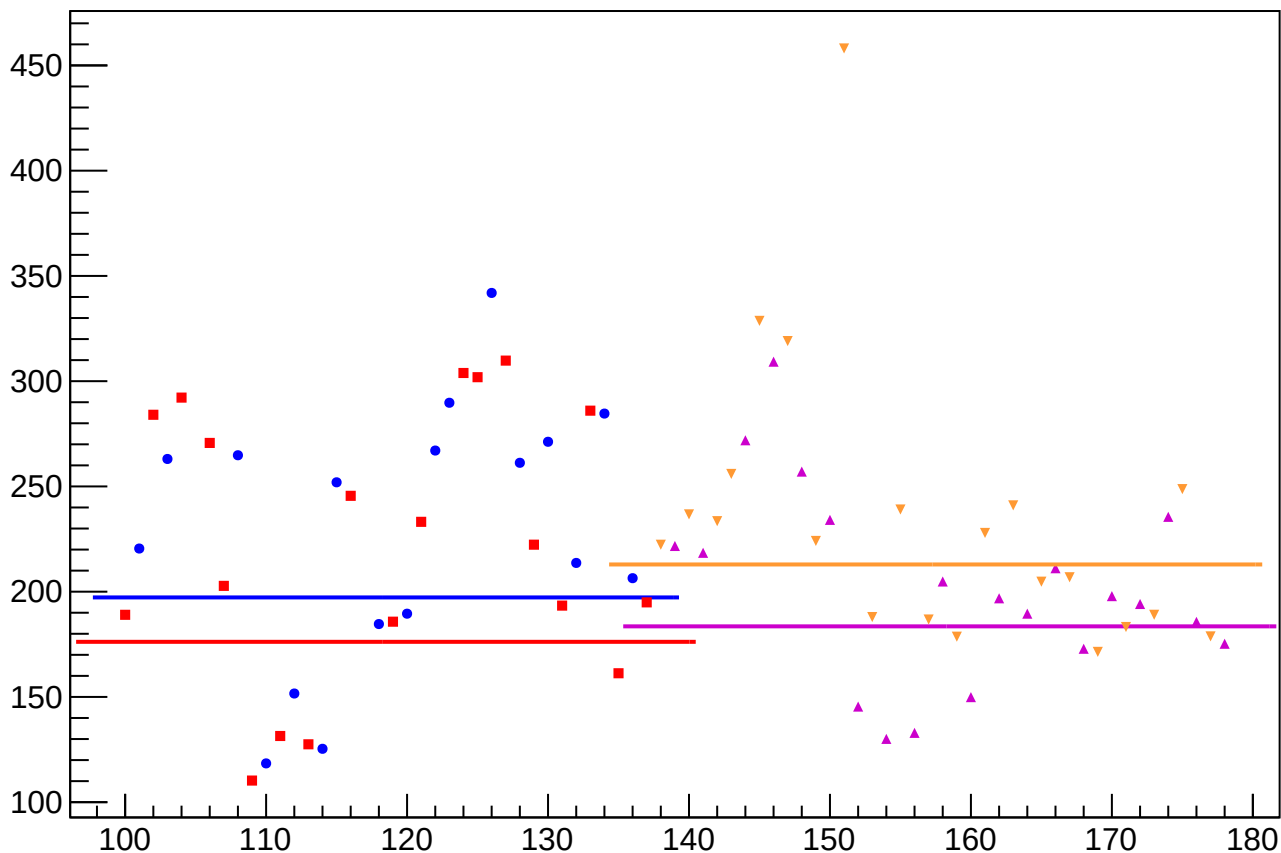
Right: 29.482 $\pm$ 53.435 χ^2 /NDF: 13.8/35

In: 50.338 $\pm$ 41.859 χ^2 /NDF:13.8/36

Out: 9.331 $\pm$ 43.786 χ^2 /NDF:11.1/39

All: 30.757 $\pm$ 30.257 χ^2 /NDF: 25.3/76

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271 $\pm$ 0.057 χ^2 /NDF: 969549.7/16

Left Out: 212.930 $\pm$ 0.039 χ^2 /NDF:1268181.5/20

Right Out: 176.181 $\pm$ 0.051 χ^2 /NDF: 1519707.5/18

Left In: 183.529 $\pm$ 0.035 χ^2 /NDF:1498709.9/19

Left: 196.446 $\pm$ 0.026 χ^2 /NDF: 3082891.1/40

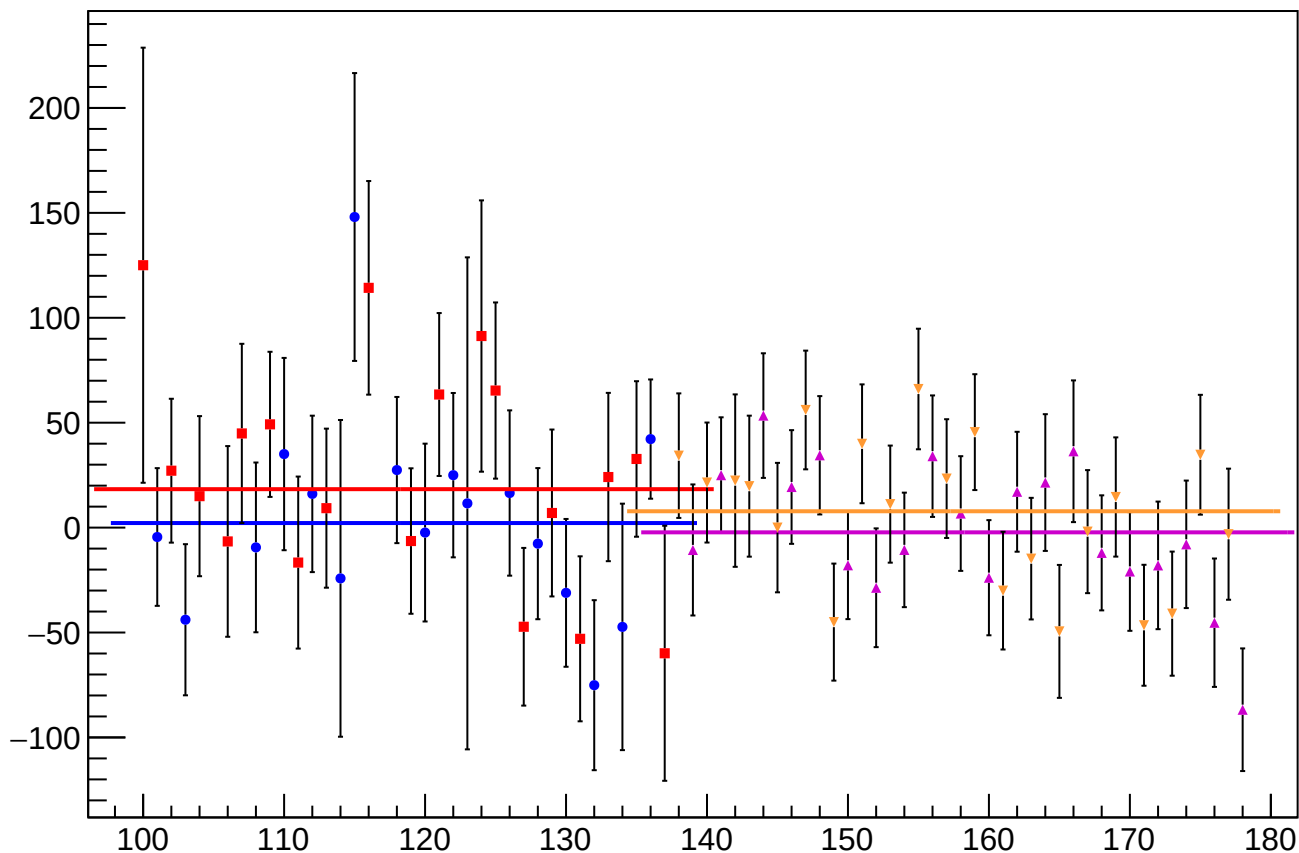
Right: 185.494 $\pm$ 0.038 χ^2 /NDF: 2566089.1/35

In: 187.253 $\pm$ 0.030 χ^2 /NDF:2510846.5/36

Out: 199.151 $\pm$ 0.031 χ^2 /NDF:3118053.7/39

All: 192.934 $\pm$ 0.021 χ^2 /NDF: 5706051.1/76

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 ± 9.825 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 7.792 ± 6.430 $\chi^2/\text{NDF}: 28.6/20$

Right Out: 18.320 ± 9.497 $\chi^2/\text{NDF}: 19.6/18$

Left In: -2.257 ± 6.443 $\chi^2/\text{NDF}: 24.0/19$

Left: 2.777 ± 4.551 $\chi^2/\text{NDF}: 53.8/40$

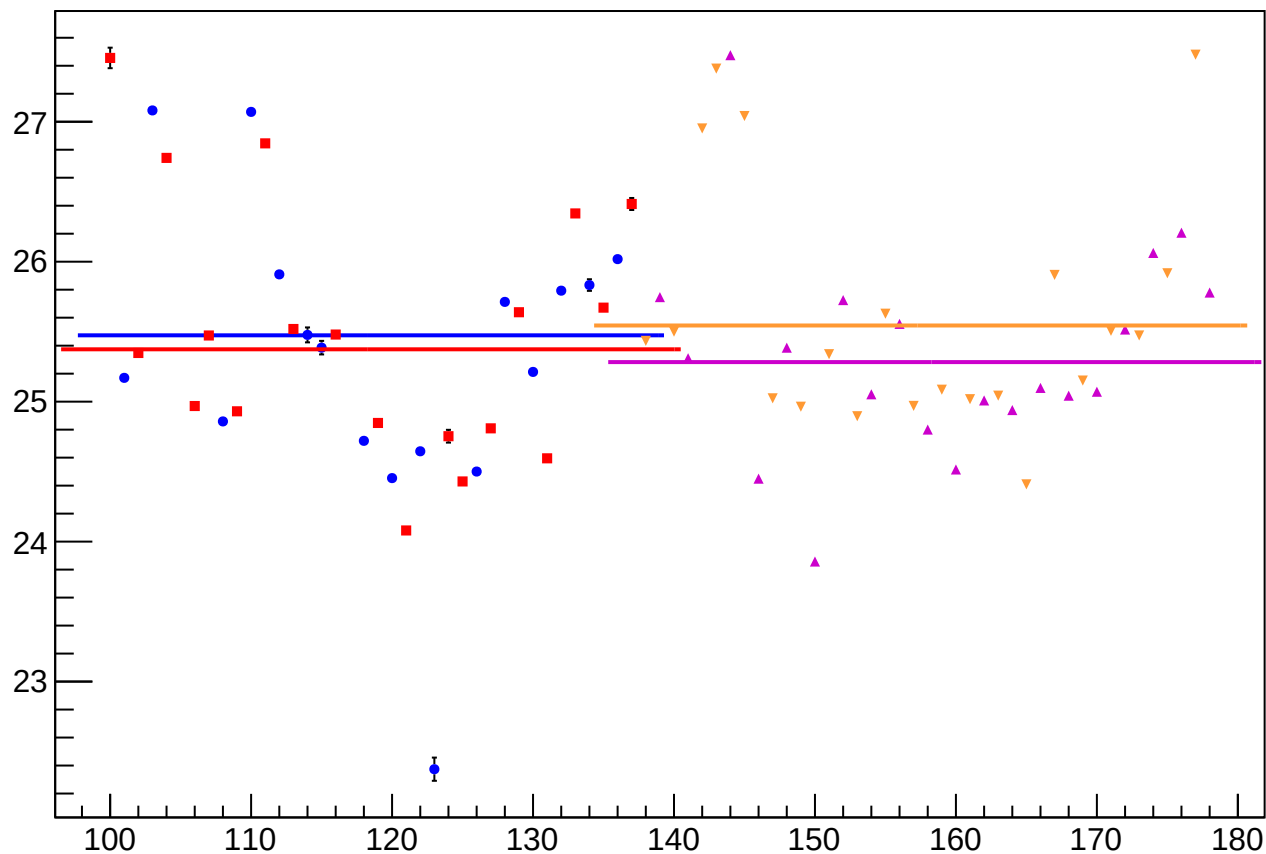
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: -0.924 ± 5.388 $\chi^2/\text{NDF}: 39.6/36$

Out: 11.101 ± 5.325 $\chi^2/\text{NDF}: 49.0/39$

All: 5.159 ± 3.787 $\chi^2/\text{NDF}: 91.1/76$

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: 25.544 $\pm$ 0.005 χ^2 /NDF: 29765.5/20

Right Out: 25.374 $\pm$ 0.007 χ^2 /NDF: 13581.2/18

Left In: 25.283 $\pm$ 0.005 χ^2 /NDF: 26994.7/19

Left: 25.414 $\pm$ 0.003 χ^2 /NDF: 58411.4/40

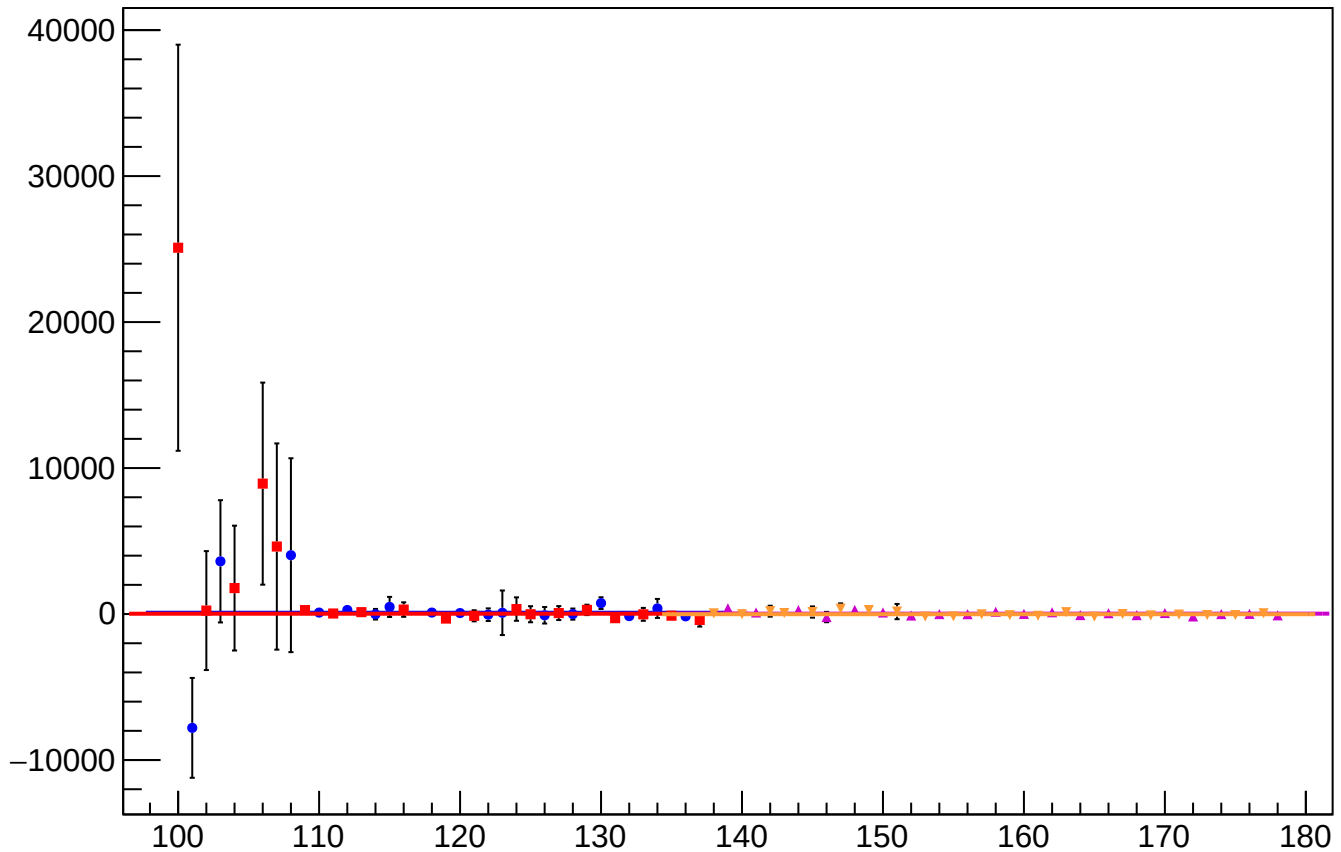
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.340 $\pm$ 0.004 χ^2 /NDF: 41586.1/36

Out: 25.491 $\pm$ 0.004 χ^2 /NDF: 43787.1/39

All: 25.416 $\pm$ 0.003 χ^2 /NDF: 86163.0/76

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.619+/-87.630 χ^2/NDF : 12.3/16

Left Out: -11.059+/-55.442 χ^2/NDF : 5.1/20

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 27.665+/-49.545 χ^2/NDF : 6.4/19

Left: 10.471+/-36.943 χ^2/NDF : 11.7/40

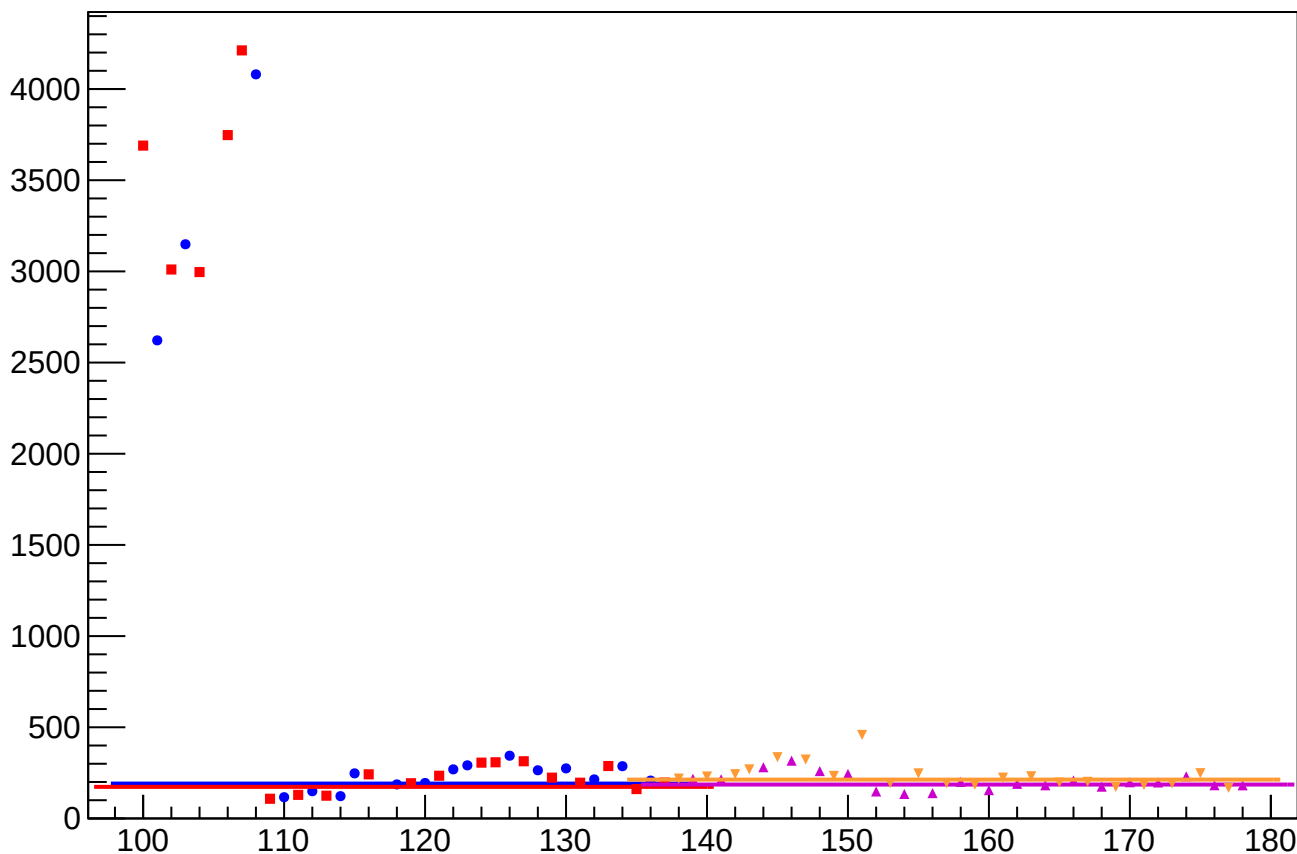
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 42.672+/-43.129 χ^2/NDF : 19.1/36

Out: -0.298+/-45.734 χ^2/NDF : 17.1/39

All: 22.445+/-31.377 χ^2/NDF : 36.6/76

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.190+/-0.062 χ^2/NDF : 3571747.5/16

Left Out: 213.044+/-0.039 χ^2/NDF :1323339.8/20

Right Out: 173.269+/-0.057 χ^2/NDF : 4207191.5/18

Left In: 185.946+/-0.035 χ^2/NDF :1373808.6/19

Left: 197.978+/-0.026 χ^2/NDF : 2962786.9/40

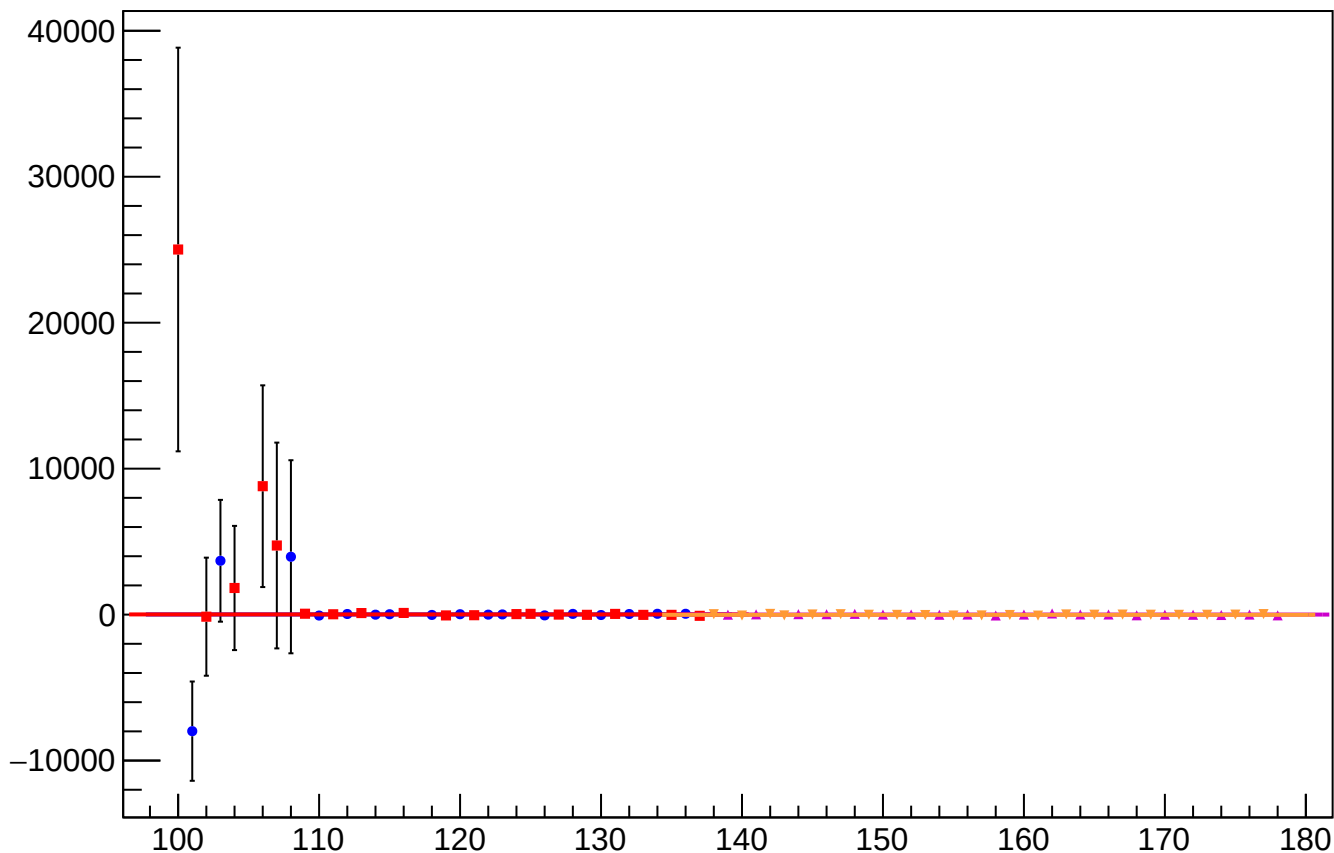
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 187.217+/-0.030 χ^2/NDF :4950982.5/36

Out: 200.334+/-0.032 χ^2/NDF :5859482.9/39

All: 193.391+/-0.022 χ^2/NDF : 10897547.1/76

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.398+/-12.190 χ^2/NDF : 18.3/16

Left Out: -13.738+/-7.266 χ^2/NDF : 18.9/20

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 2.151+/-7.344 χ^2/NDF : 21.2/19

Left: -5.878+/-5.165 χ^2/NDF : 42.4/40

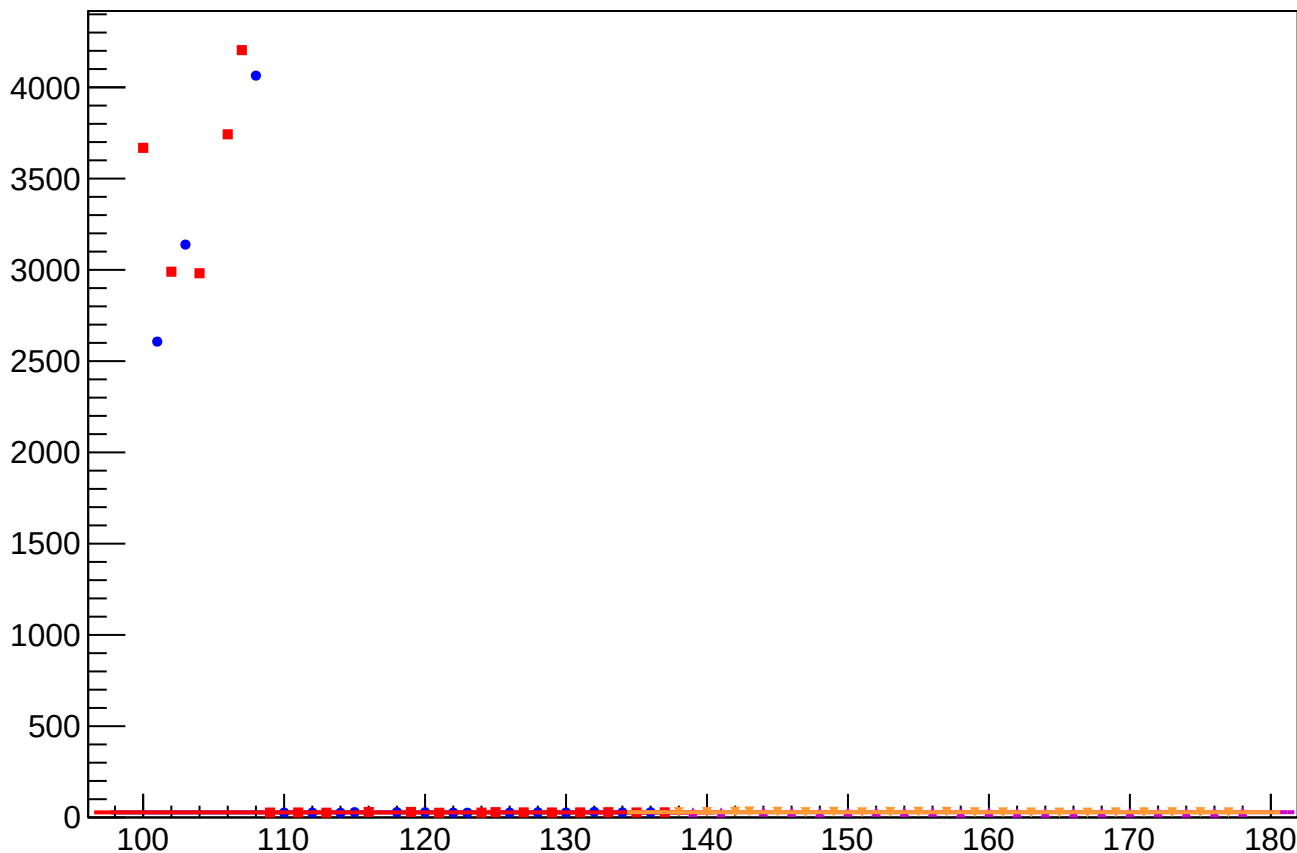
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 4.348+/-6.290 χ^2/NDF : 39.8/36

Out: -6.774+/-6.246 χ^2/NDF : 46.8/39

All: -1.252+/-4.432 χ^2/NDF : 88.1/76

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837 $\pm$ 0.009 χ^2 /NDF: 3026887.2/16

Left Out: 28.815 $\pm$ 0.005 χ^2 /NDF: 98439.0/20

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 28.745 $\pm$ 0.005 χ^2 /NDF: 120115.6/19

Left: 28.780 $\pm$ 0.004 χ^2 /NDF: 218644.7/40

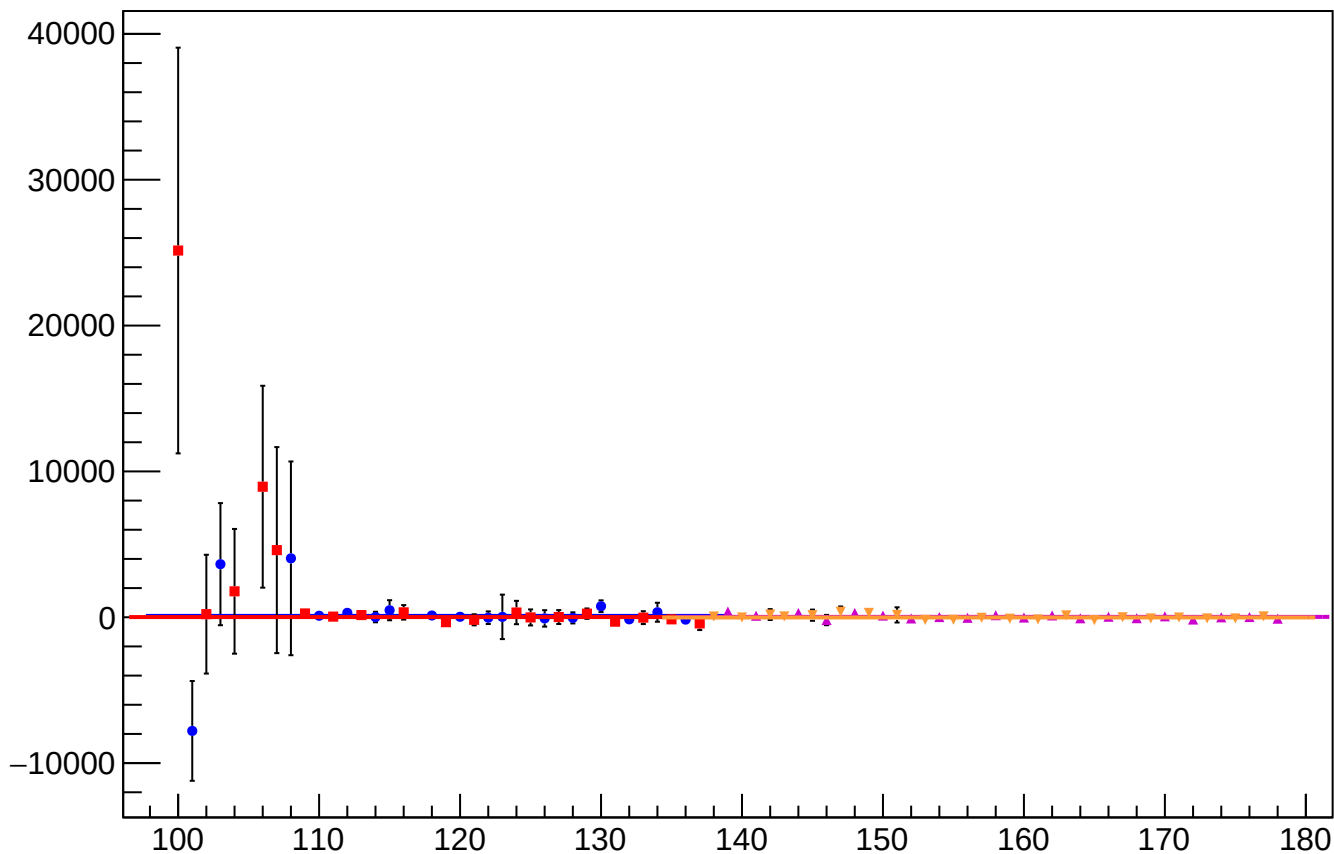
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.503 $\pm$ 0.004 χ^2 /NDF: 3155161.7/36

Out: 28.522 $\pm$ 0.004 χ^2 /NDF: 3587660.1/39

All: 28.513 $\pm$ 0.003 χ^2 /NDF: 6742830.9/76

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840+/-87.359 χ^2/NDF : 12.6/16

Left Out: -14.520+/-55.316 χ^2/NDF : 5.7/20

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 26.146+/-49.442 χ^2/NDF : 6.5/19

Left: 8.086+/-36.863 χ^2/NDF : 12.5/40

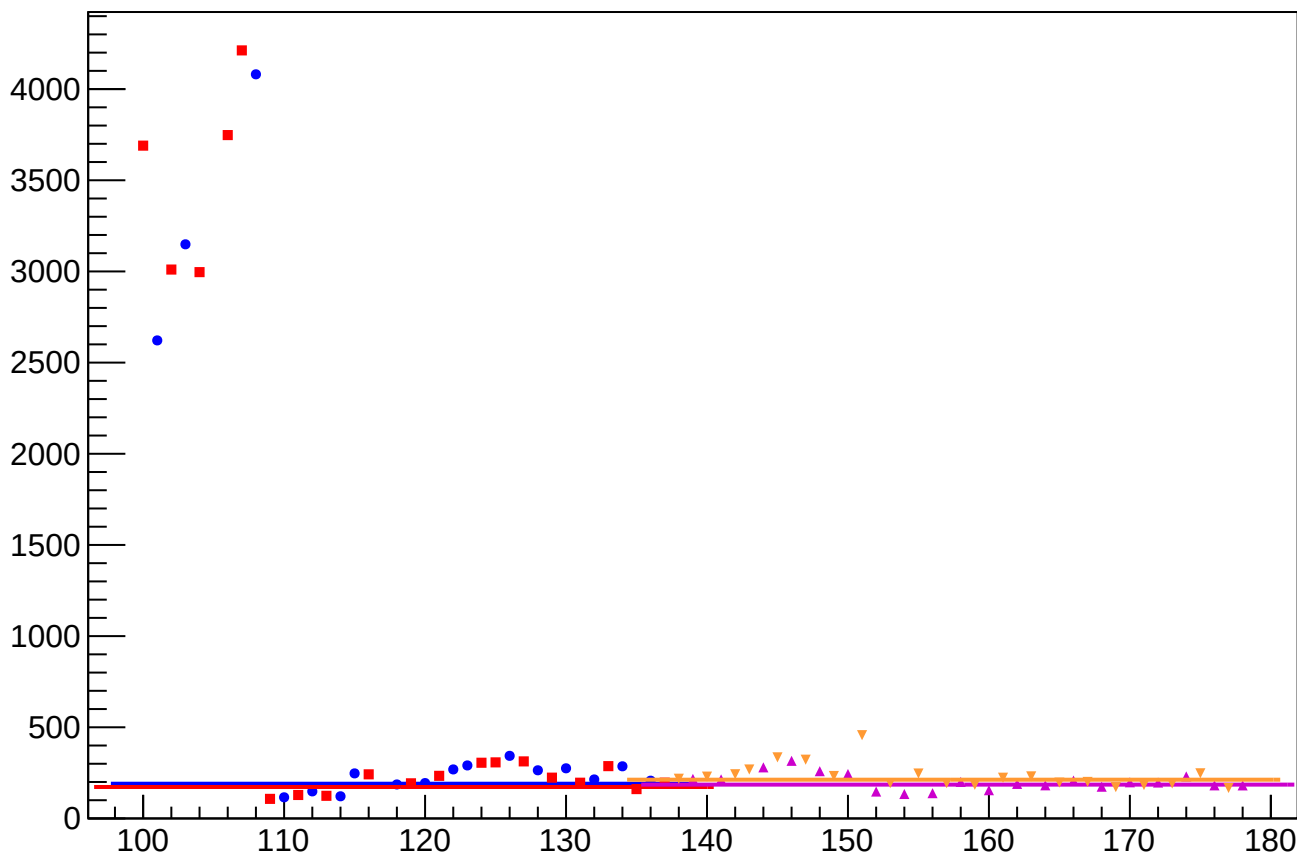
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 42.326+/-43.029 χ^2/NDF : 19.5/36

Out: -5.787+/-45.616 χ^2/NDF : 18.5/39

All: 19.672+/-31.300 χ^2/NDF : 38.6/76

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.485+/-0.062 χ^2/NDF : 3583573.2/16

Left Out: 212.558+/-0.039 χ^2/NDF :1324419.6/20

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 185.560+/-0.035 χ^2/NDF :1373708.7/19

Left: 197.550+/-0.026 χ^2/NDF : 2962958.4/40

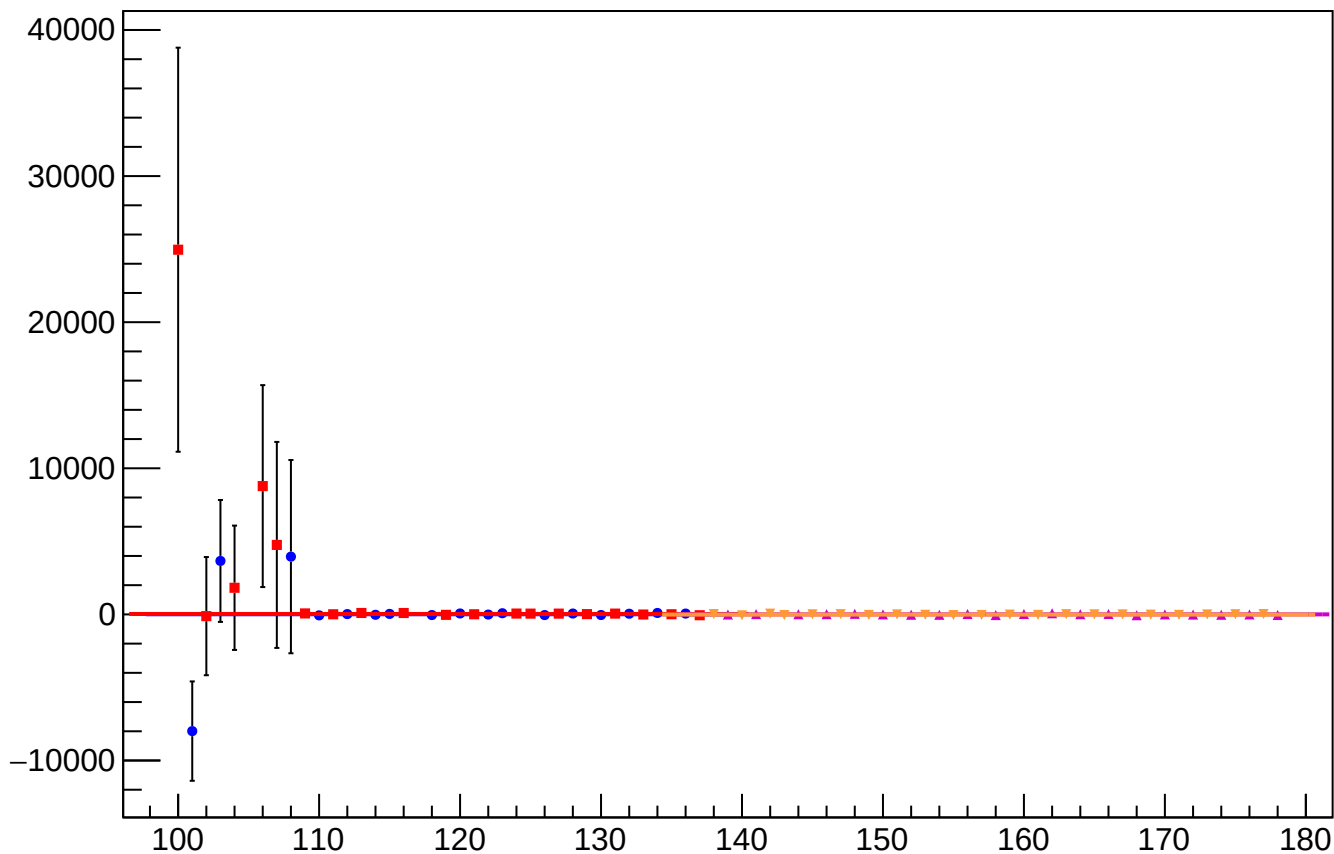
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 186.755+/-0.030 χ^2/NDF :4962096.5/36

Out: 199.773+/-0.032 χ^2/NDF :5876707.7/39

All: 192.884+/-0.022 χ^2/NDF : 10924990.8/76

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.600 $\pm$ 12.273 χ^2 /NDF: 23.2/16

Left Out: -10.826 $\pm$ 7.308 χ^2 /NDF:12.9/20

Right Out: 29.627 $\pm$ 12.328 χ^2 /NDF: 16.5/18

Left In: 1.565 $\pm$ 7.379 χ^2 /NDF:20.0/19

Left: -4.691 $\pm$ 5.192 χ^2 /NDF: 34.3/40

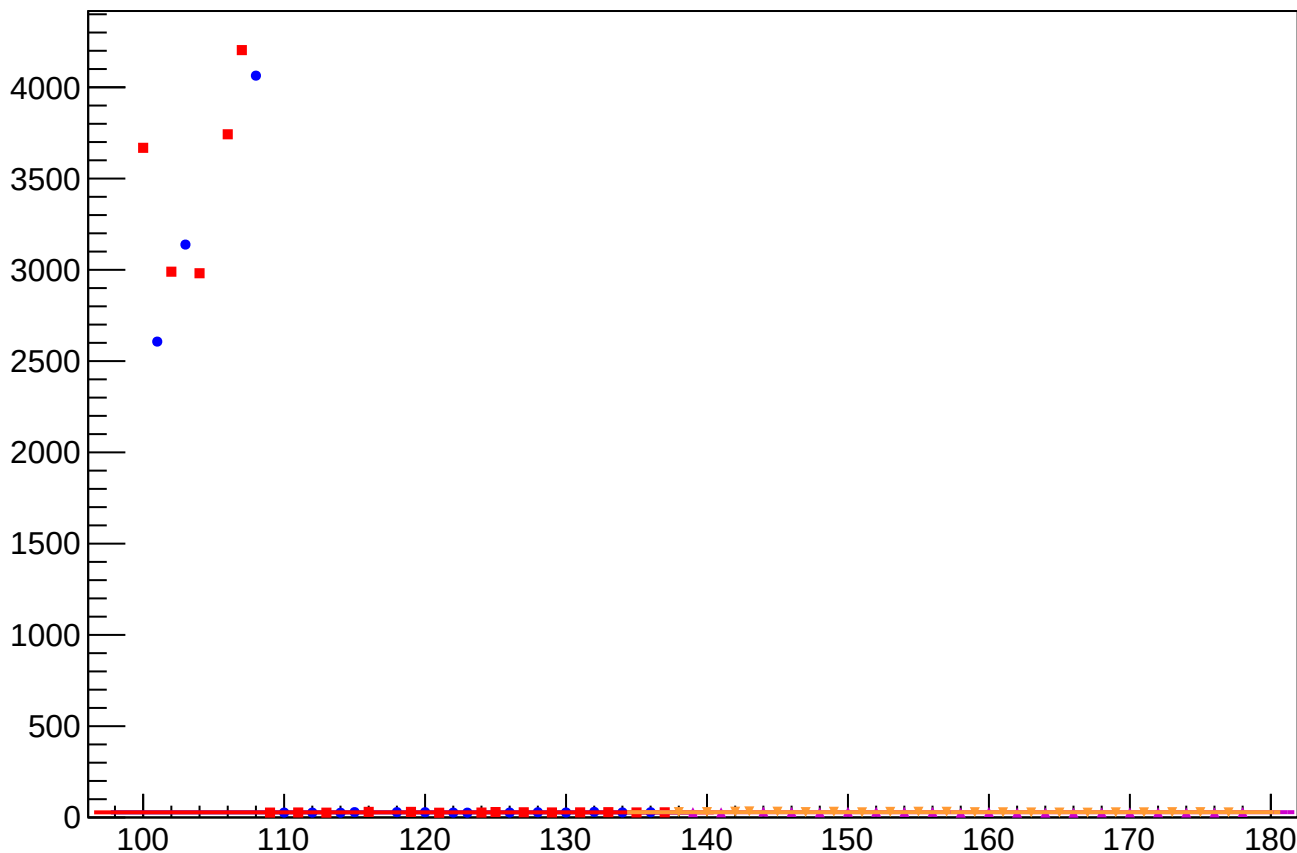
Right: 19.569 $\pm$ 8.698 χ^2 /NDF: 41.1/35

In: 3.699 $\pm$ 6.324 χ^2 /NDF:43.5/36

Out: -0.308 $\pm$ 6.286 χ^2 /NDF:37.4/39

All: 1.683 $\pm$ 4.458 χ^2 /NDF: 81.1/76

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023+/-0.009 χ^2/NDF : 3027003.0/16

Left Out: 28.976+/-0.005 χ^2/NDF :106225.3/20

Right Out: 27.917+/-0.009 χ^2/NDF : 3479610.6/18

Left In: 28.884+/-0.005 χ^2/NDF :123571.0/19

Left: 28.930+/-0.004 χ^2/NDF : 229954.0/40

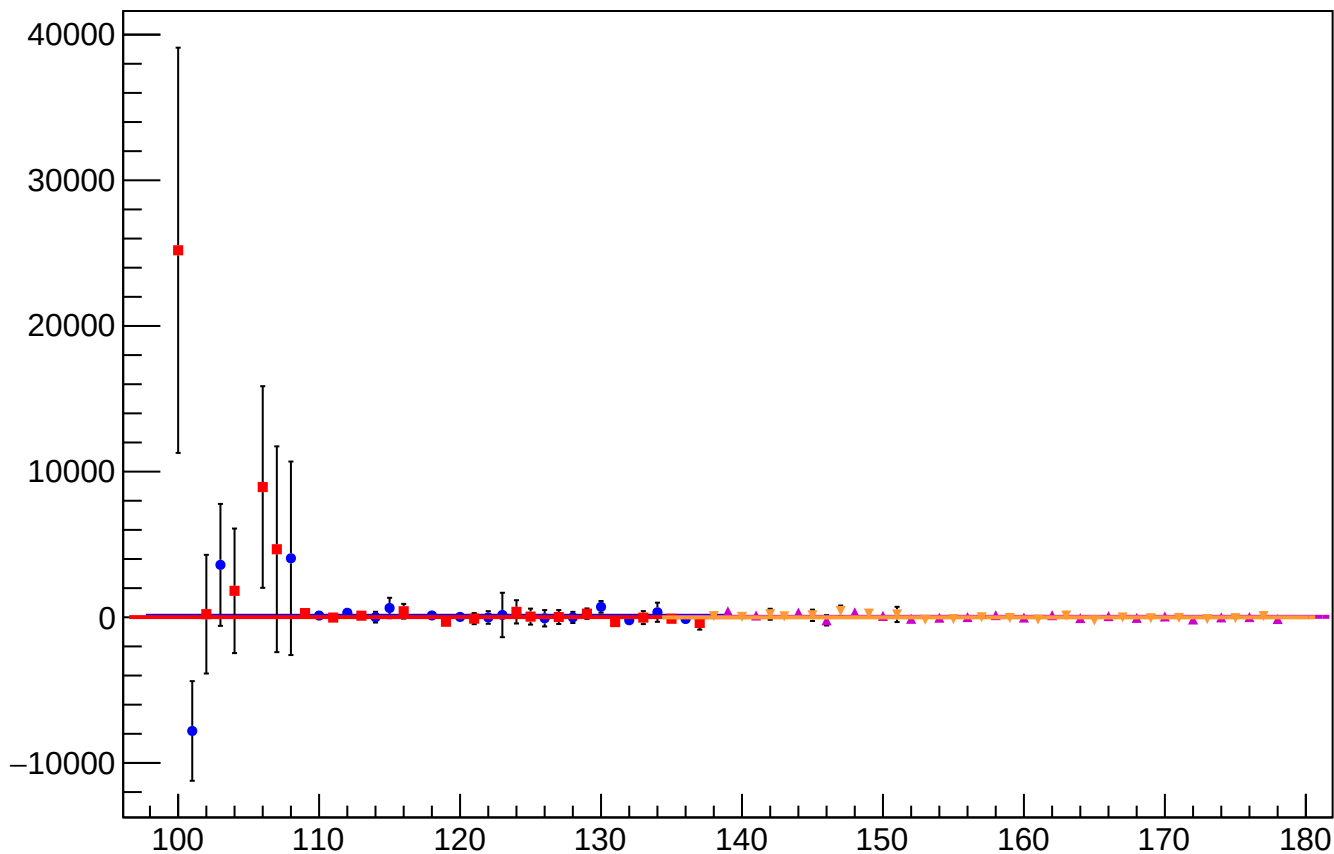
Right: 27.970+/-0.006 χ^2/NDF : 6506687.7/35

In: 28.655+/-0.004 χ^2/NDF :3157798.3/36

Out: 28.700+/-0.004 χ^2/NDF :3596752.1/39

All: 28.678+/-0.003 χ^2/NDF : 6754602.3/76

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.772 $\pm$ 88.390 χ^2 /NDF: 12.4/16

Left Out: -5.851 $\pm$ 55.934 χ^2 /NDF:5.7/20

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 31.099 $\pm$ 50.028 χ^2 /NDF:7.3/19

Left: 14.678 $\pm$ 37.289 χ^2 /NDF: 13.2/40

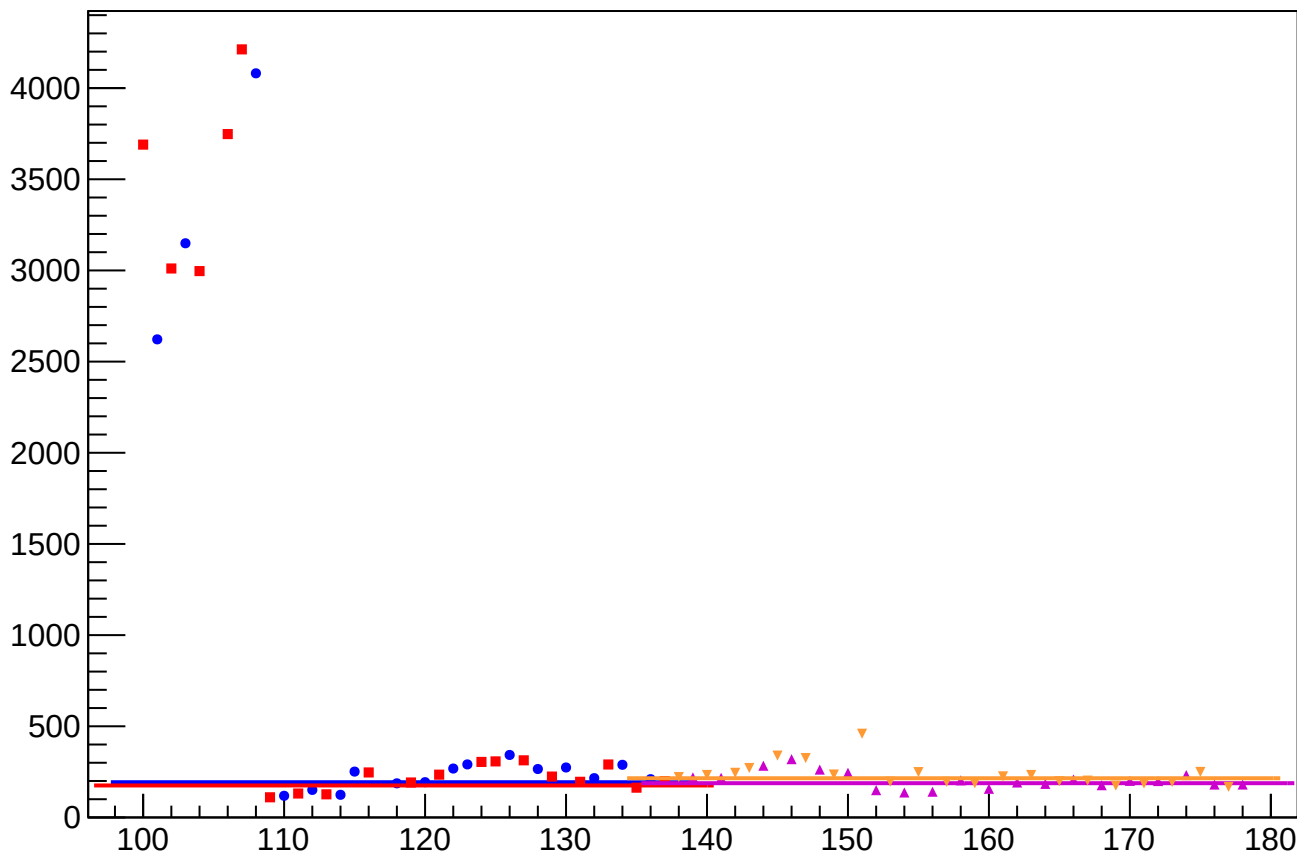
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 48.245 $\pm$ 43.538 χ^2 /NDF:20.1/36

Out: -0.403 $\pm$ 46.159 χ^2 /NDF:18.0/39

All: 25.342 $\pm$ 31.672 χ^2 /NDF: 38.7/76

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.190+/-0.063 χ^2/NDF : 3536123.5/16

Left Out: 215.006+/-0.040 χ^2/NDF :1318504.1/20

Right Out: 175.485+/-0.058 χ^2/NDF : 4165391.7/18

Left In: 187.900+/-0.035 χ^2/NDF :1345145.8/19

Left: 199.947+/-0.026 χ^2/NDF : 2924598.8/40

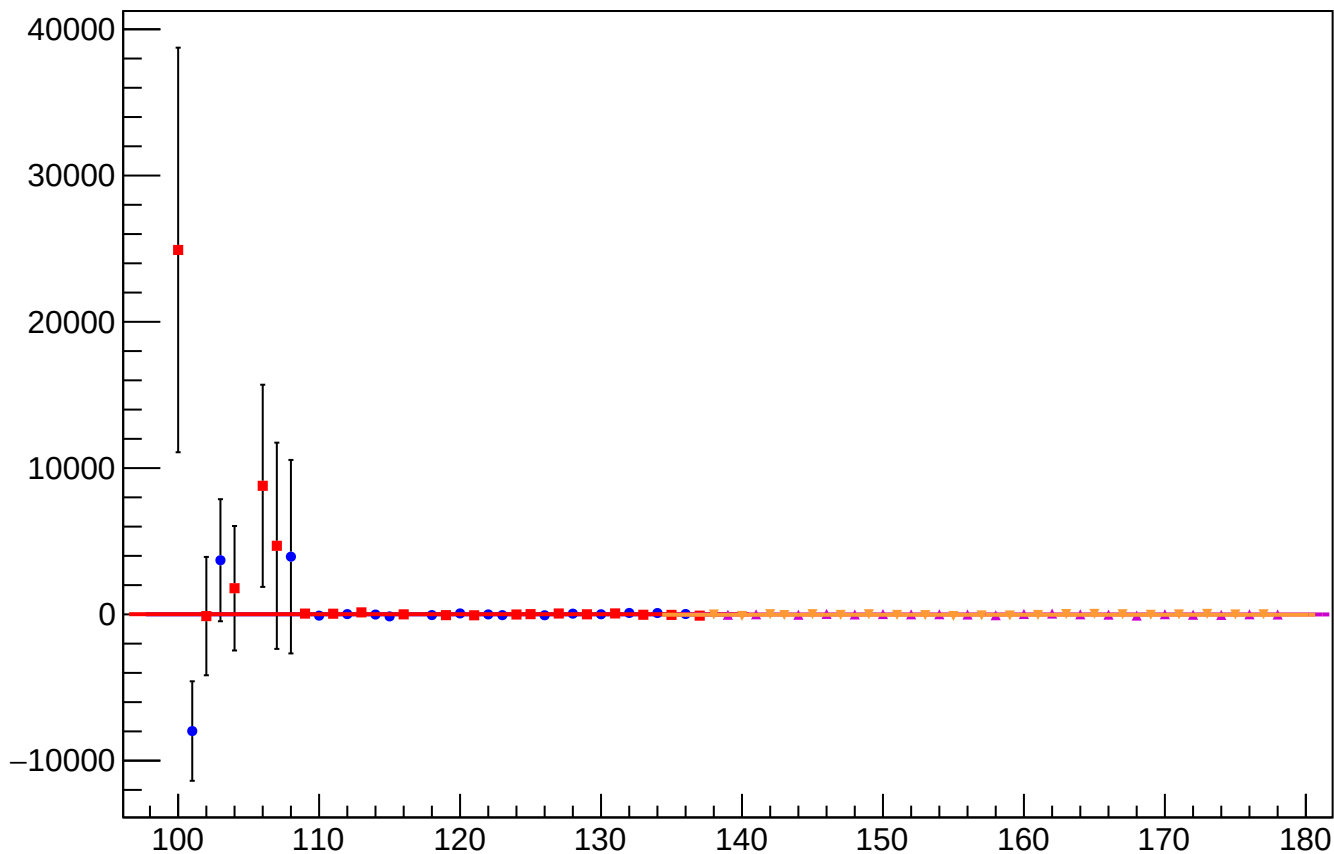
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 189.183+/-0.031 χ^2/NDF :4886695.0/36

Out: 202.400+/-0.033 χ^2/NDF :5802391.8/39

All: 195.406+/-0.022 χ^2/NDF : 10775852.0/76

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651+/-14.935 χ^2/NDF : 20.4/16

Left Out: -24.537+/-8.737 χ^2/NDF :22.1/20

Right Out: 12.487+/-14.947 χ^2/NDF : 21.7/18

Left In: -5.070+/-8.845 χ^2/NDF :12.8/19

Left: -14.923+/-6.216 χ^2/NDF : 37.4/40

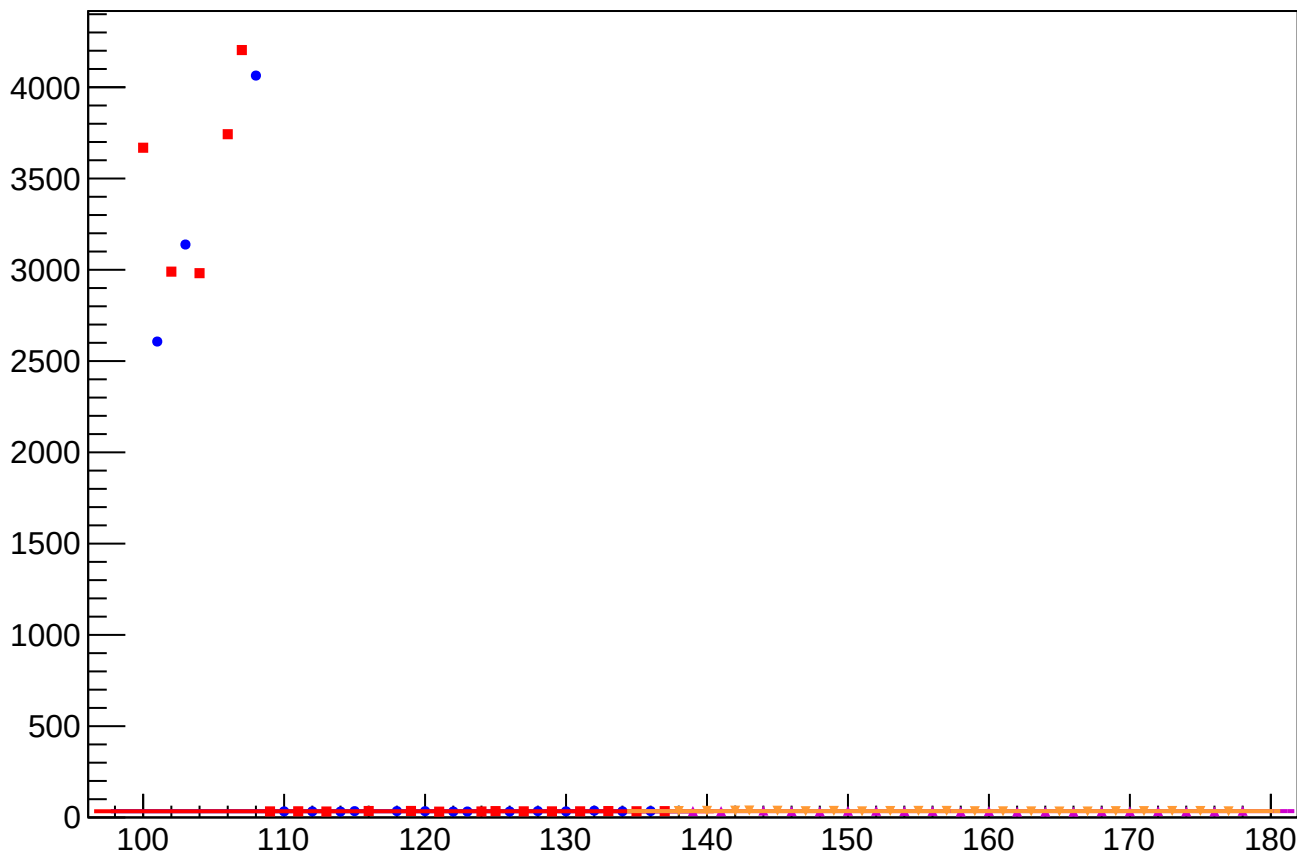
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -2.546+/-7.610 χ^2/NDF :33.6/36

Out: -15.109+/-7.543 χ^2/NDF :48.3/39

All: -8.883+/-5.357 χ^2/NDF : 83.2/76

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.137 $\pm$ 0.011 χ^2 /NDF: 3006248.0/16

Left Out: 34.697 $\pm$ 0.006 χ^2 /NDF: 49907.3/20

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.683 $\pm$ 0.006 χ^2 /NDF: 58638.3/19

Left: 34.690 $\pm$ 0.004 χ^2 /NDF: 108547.9/40

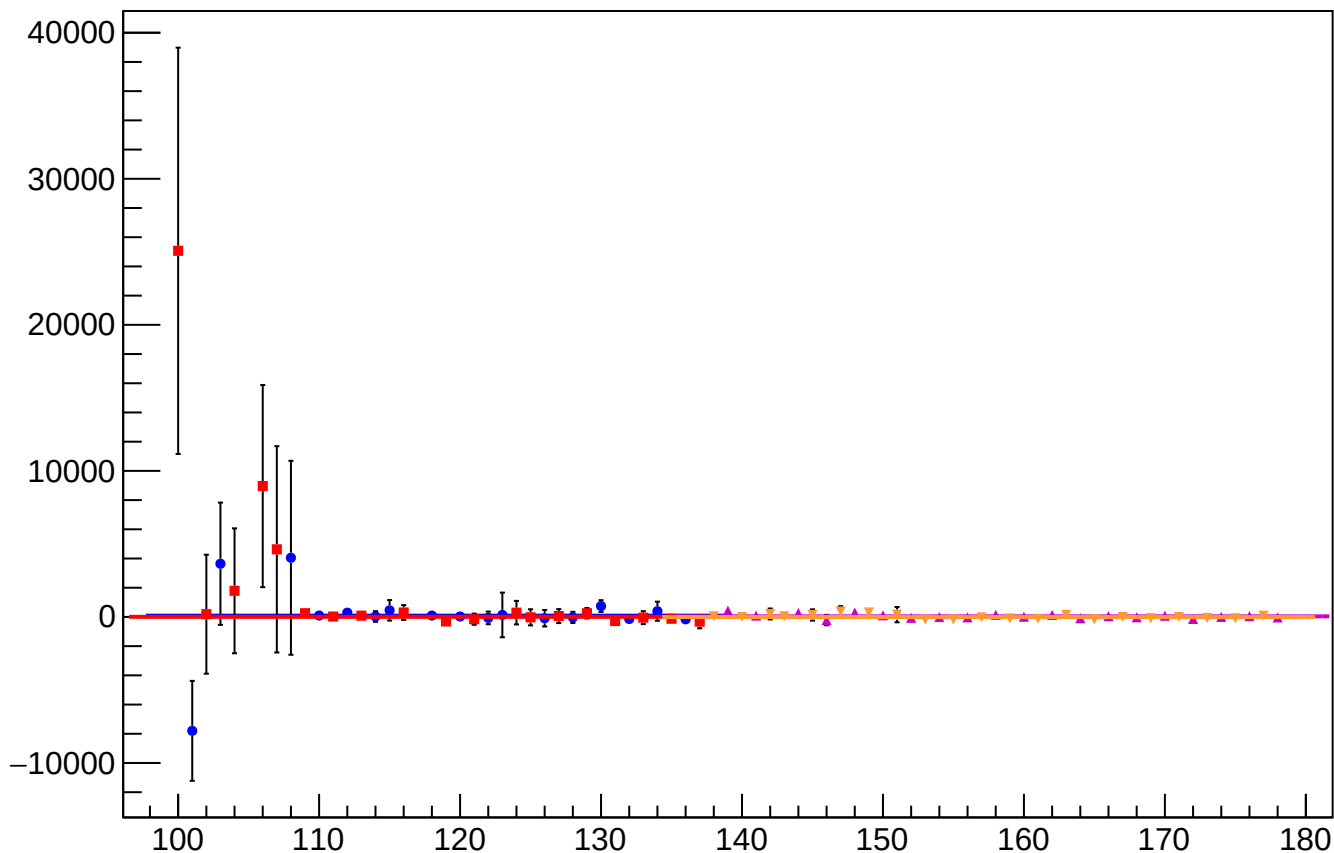
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.542 $\pm$ 0.005 χ^2 /NDF: 3066866.4/36

Out: 34.497 $\pm$ 0.005 χ^2 /NDF: 3505899.0/39

All: 34.519 $\pm$ 0.004 χ^2 /NDF: 6572800.0/76

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: -8.889+/-55.875 χ^2/NDF : 5.7/20

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 39.573+/-49.992 χ^2/NDF : 6.2/19

Left: 18.027+/-37.257 χ^2/NDF : 12.3/40

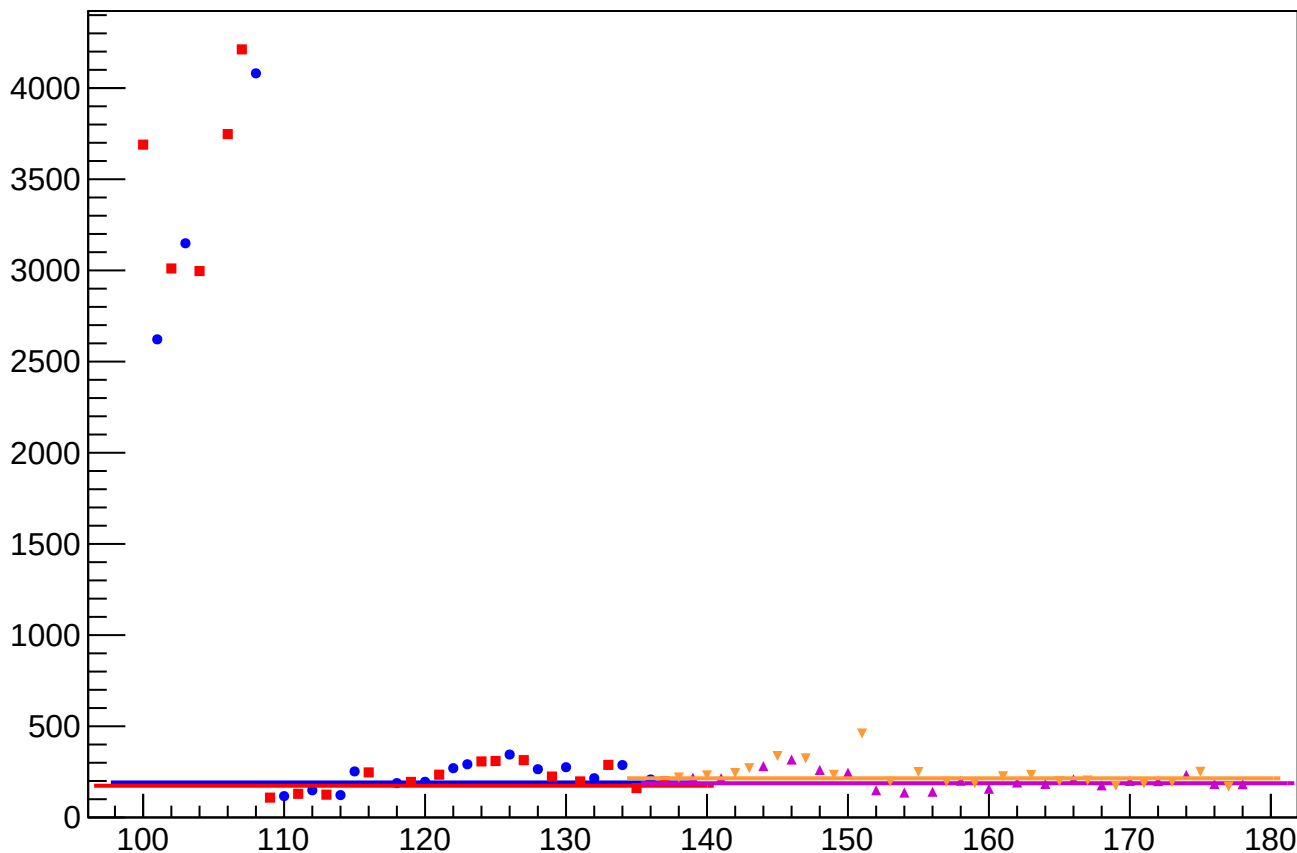
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 50.921+/-43.461 χ^2/NDF : 18.8/36

Out: -3.689+/-46.032 χ^2/NDF : 16.8/39

All: 25.183+/-31.601 χ^2/NDF : 36.3/76

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.880+/-0.062 χ^2/NDF : 3573060.2/16

Left Out: 214.816+/-0.040 χ^2/NDF :1301270.7/20

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 187.776+/-0.035 χ^2/NDF :1332639.0/19

Left: 199.798+/-0.026 χ^2/NDF : 2894066.5/40

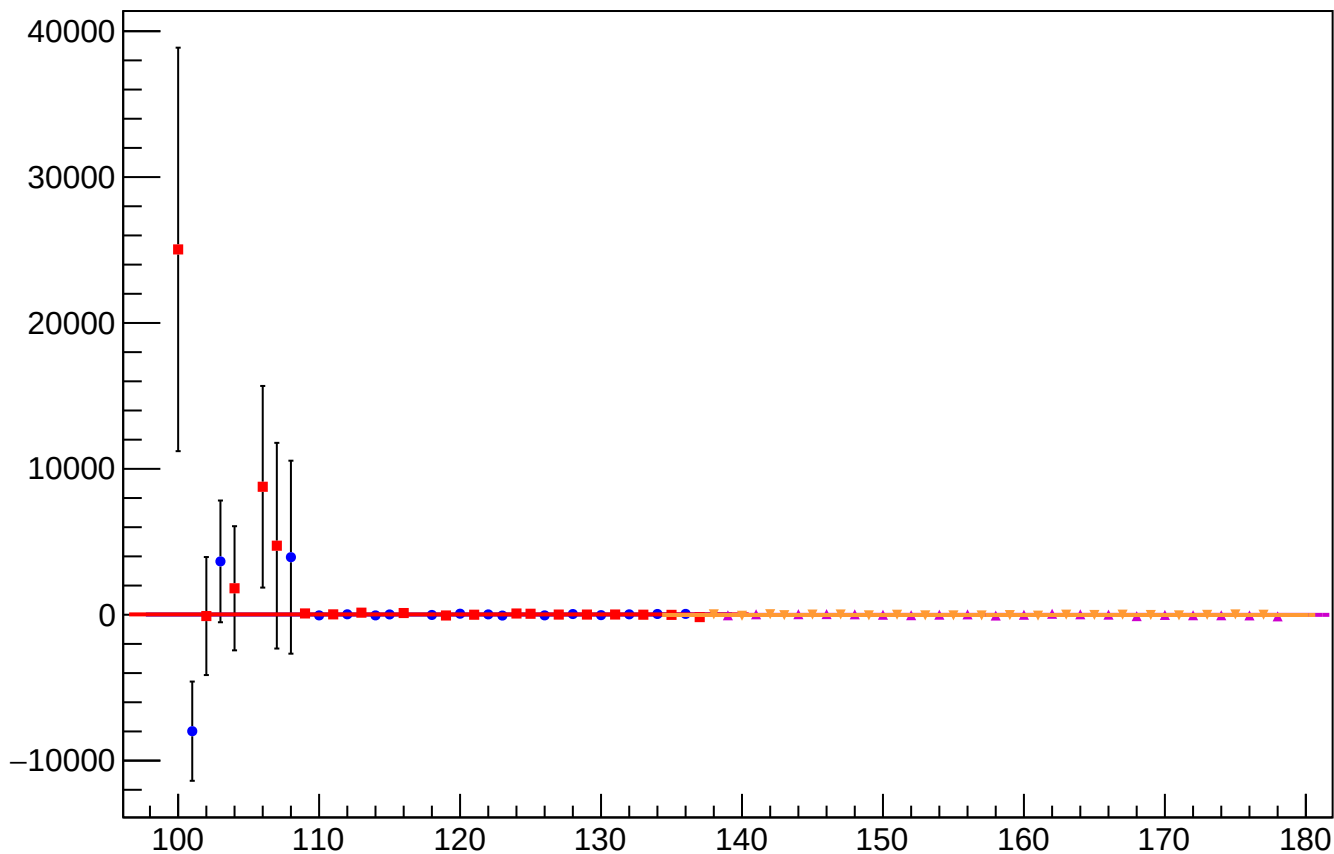
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 188.778+/-0.031 χ^2/NDF :4908991.7/36

Out: 201.679+/-0.033 χ^2/NDF :5856776.2/39

All: 194.858+/-0.022 χ^2/NDF : 10848821.4/76

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.121+/-13.618 χ^2/NDF : 15.2/16

Left Out: -17.937+/-7.939 χ^2/NDF : 13.8/20

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: -8.195+/-8.032 χ^2/NDF : 32.9/19

Left: -13.123+/-5.646 χ^2/NDF : 47.4/40

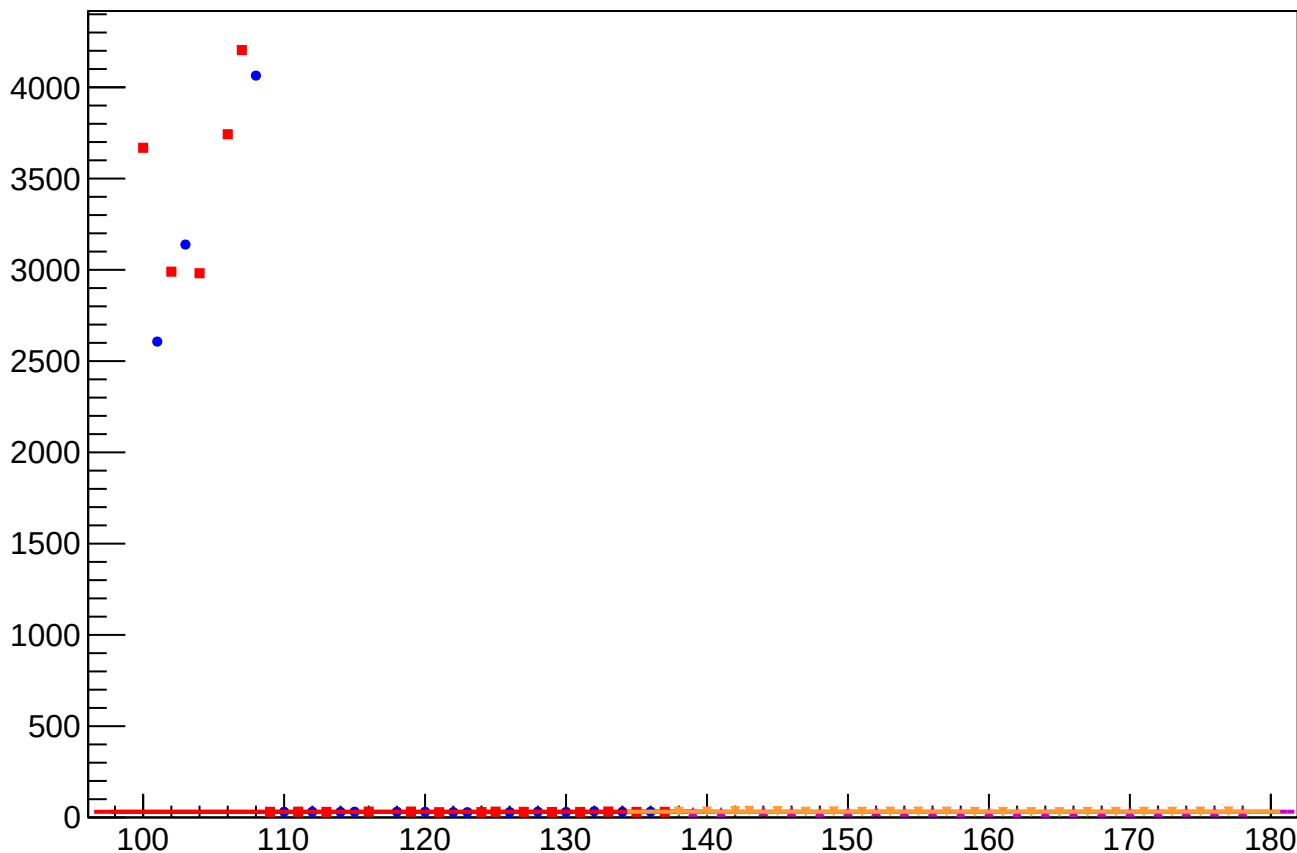
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: -2.436+/-6.918 χ^2/NDF : 50.1/36

Out: -7.501+/-6.863 χ^2/NDF : 48.1/39

All: -4.988+/-4.872 χ^2/NDF : 98.5/76

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127 $\pm$ 0.010 χ^2 /NDF: 3014425.9/16

Left Out: 31.502 $\pm$ 0.006 χ^2 /NDF: 76403.2/20

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.458 $\pm$ 0.006 χ^2 /NDF: 87013.7/19

Left: 31.481 $\pm$ 0.004 χ^2 /NDF: 163447.0/40

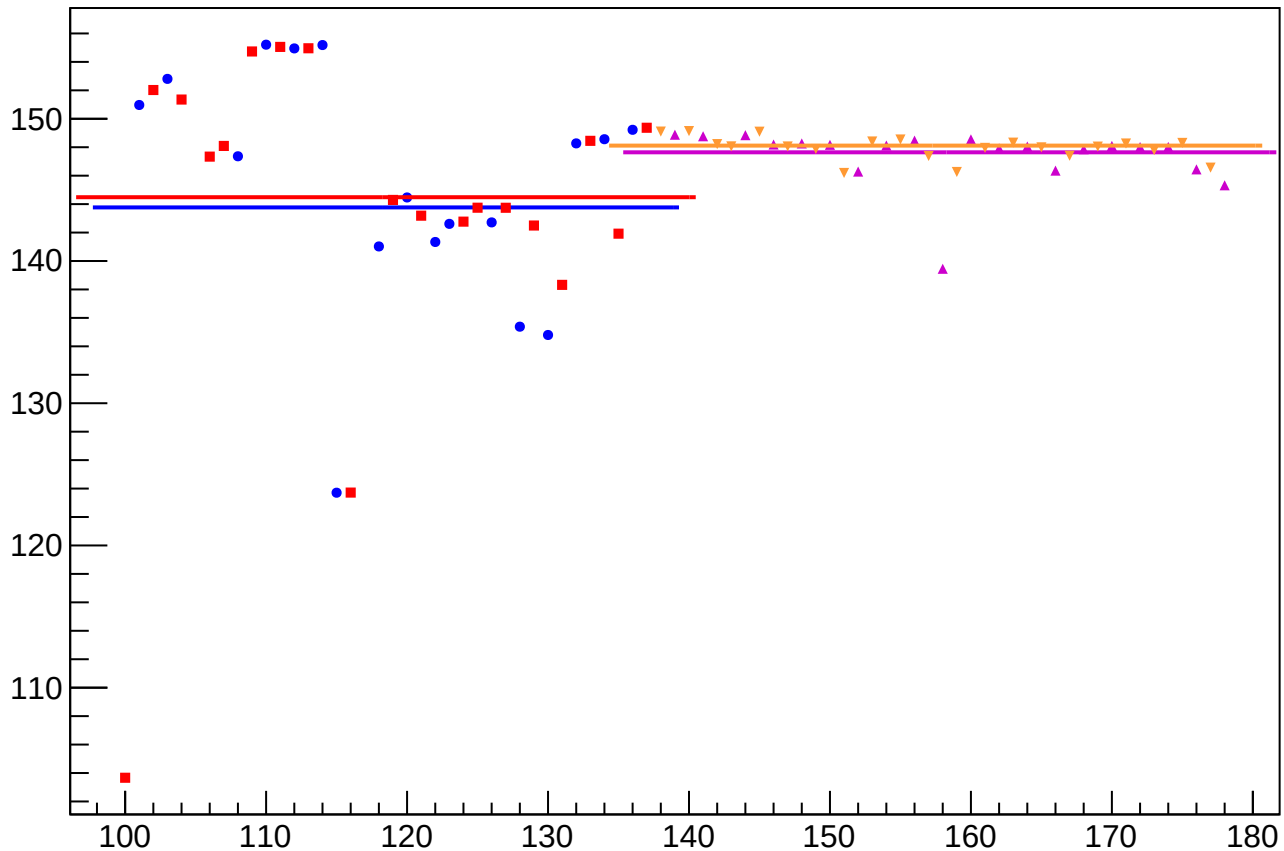
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.373 $\pm$ 0.005 χ^2 /NDF: 3102320.3/36

Out: 31.366 $\pm$ 0.005 χ^2 /NDF: 3537678.5/39

All: 31.369 $\pm$ 0.003 χ^2 /NDF: 6639999.8/76

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.114 $\pm$ 0.000 χ^2 /NDF: 59856567.2/20

Right Out: 144.486 $\pm$ 0.000 χ^2 /NDF: 4183608291.3/18

Left In: 147.642 $\pm$ 0.000 χ^2 /NDF: 343478620.0/19

Left: 147.885 $\pm$ 0.000 χ^2 /NDF: 412490193.1/40

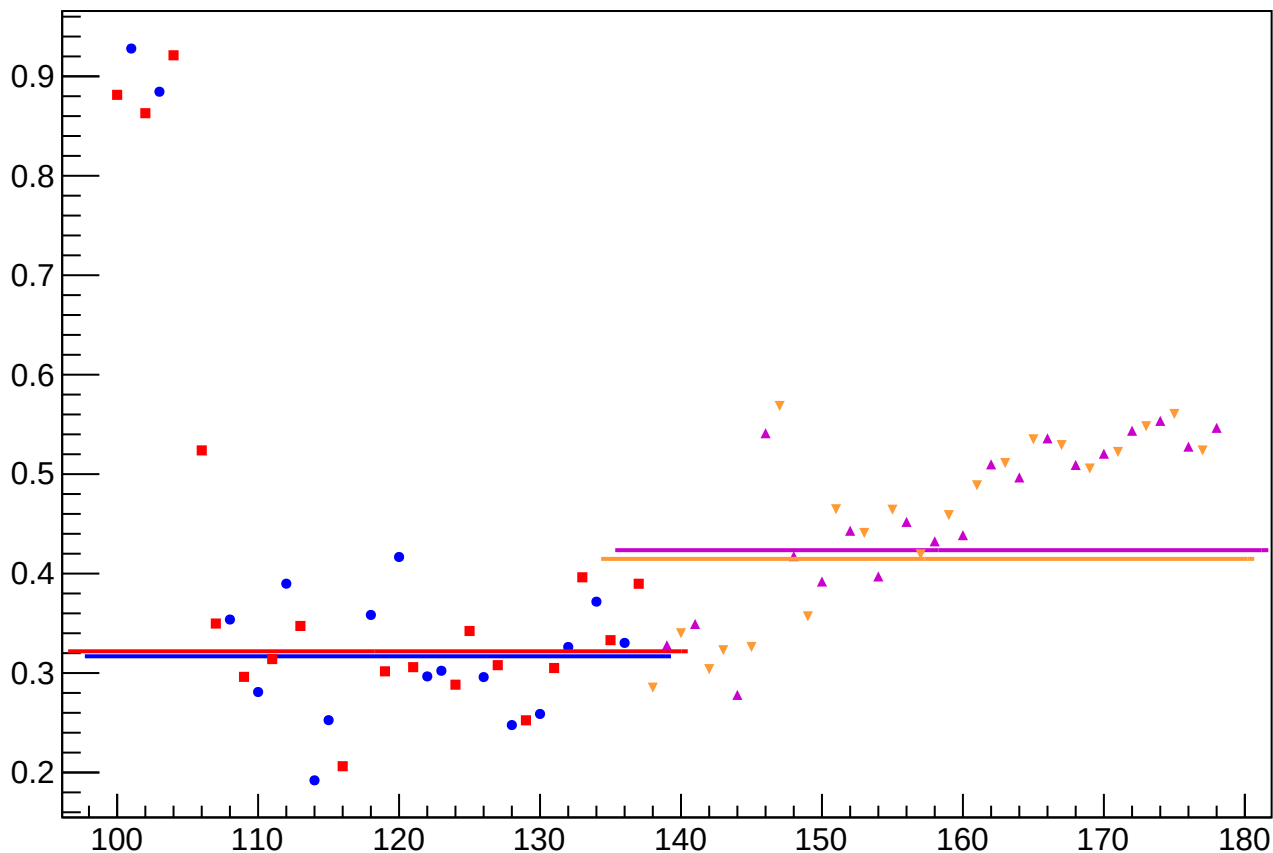
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 146.053 $\pm$ 0.000 χ^2 /NDF: 4368246861.8/36

Out: 146.659 $\pm$ 0.000 χ^2 /NDF: 4689776757.2/39

All: 146.362 $\pm$ 0.000 χ^2 /NDF: 9083471107.9

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.415 $\pm$ 0.000 χ^2 /NDF:1486203.2/20

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.424 $\pm$ 0.000 χ^2 /NDF:1241916.4/19

Left: 0.419 $\pm$ 0.000 χ^2 /NDF: 2734400.3/40

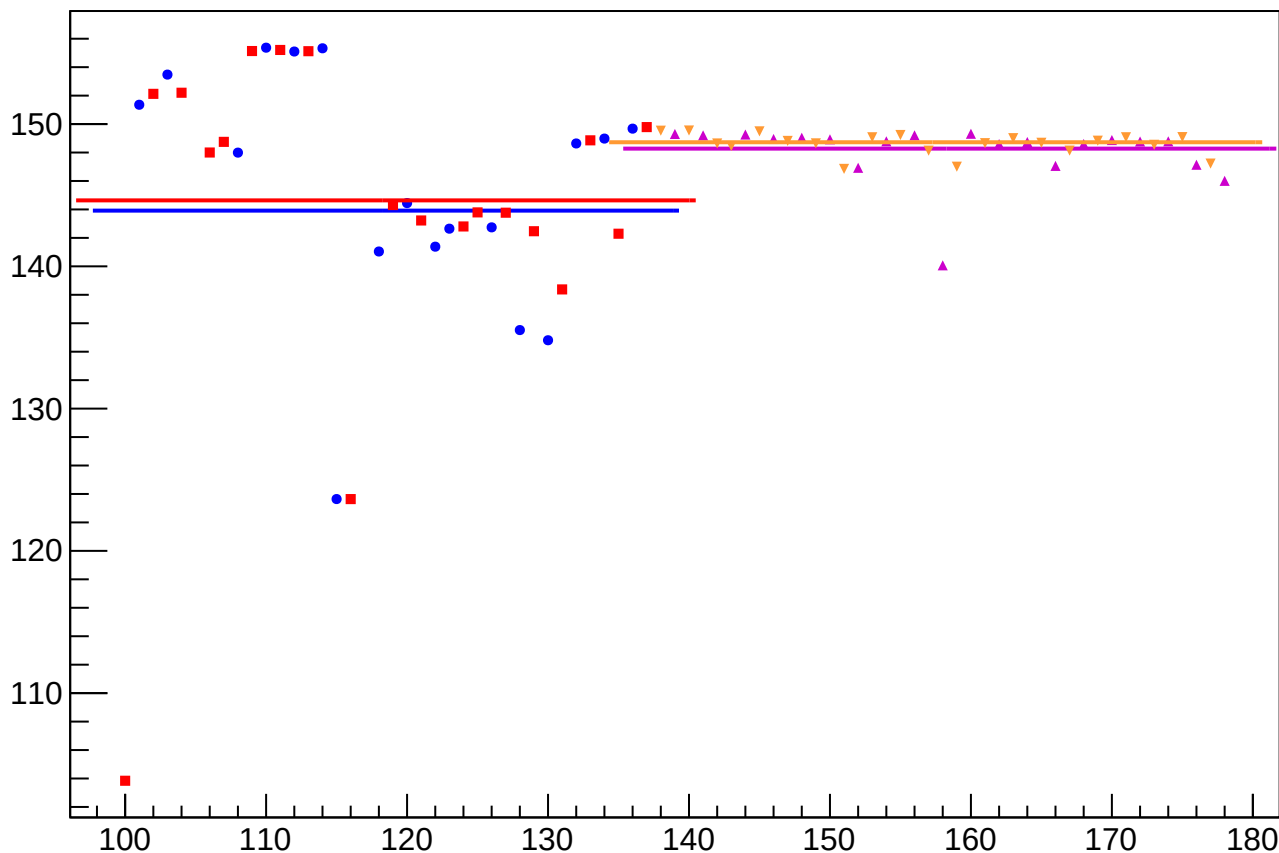
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.380 $\pm$ 0.000 χ^2 /NDF:3268107.3/36

Out: 0.378 $\pm$ 0.000 χ^2 /NDF:3289400.2/39

All: 0.379 $\pm$ 0.000 χ^2 /NDF: 6558186.2/76

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000

χ^2 /NDF: 3584662767.5/16

Left: 148.505 $\pm$ 0.000

χ^2 /NDF: 387871438.8/40

Left Out: 148.723 $\pm$ 0.000

χ^2 /NDF: 47909141.0/20

Right: 144.280 $\pm$ 0.000

χ^2 /NDF: 7809567994.8/35

Right Out: 144.637 $\pm$ 0.000

χ^2 /NDF: 4210524953.9/18

In: 146.476 $\pm$ 0.000

χ^2 /NDF: 4530259023.6/36

Out: 147.075 $\pm$ 0.000

χ^2 /NDF: 4815714015.4/39

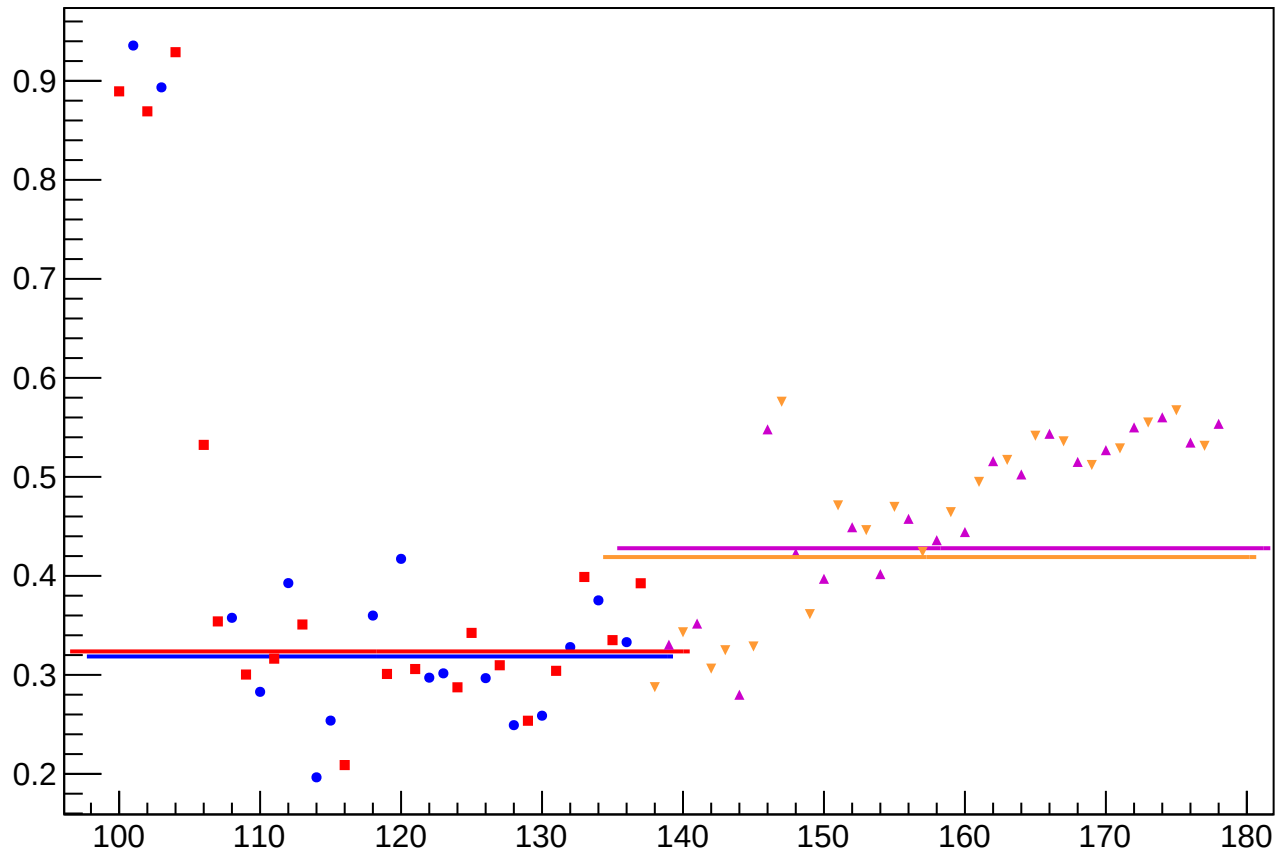
Left In: 148.275 $\pm$ 0.000

χ^2 /NDF: 331872110.7/19

All: 146.781 $\pm$ 0.000

χ^2 /NDF: 9370406728.6

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2 /NDF: 1280748.9/16

Left Out: 0.419 $\pm$ 0.000 χ^2 /NDF:1513015.3/20

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1220898.3/18

Left In: 0.428 $\pm$ 0.000 χ^2 /NDF:1264899.4/19

Left: 0.423 $\pm$ 0.000 χ^2 /NDF: 2784328.2/40

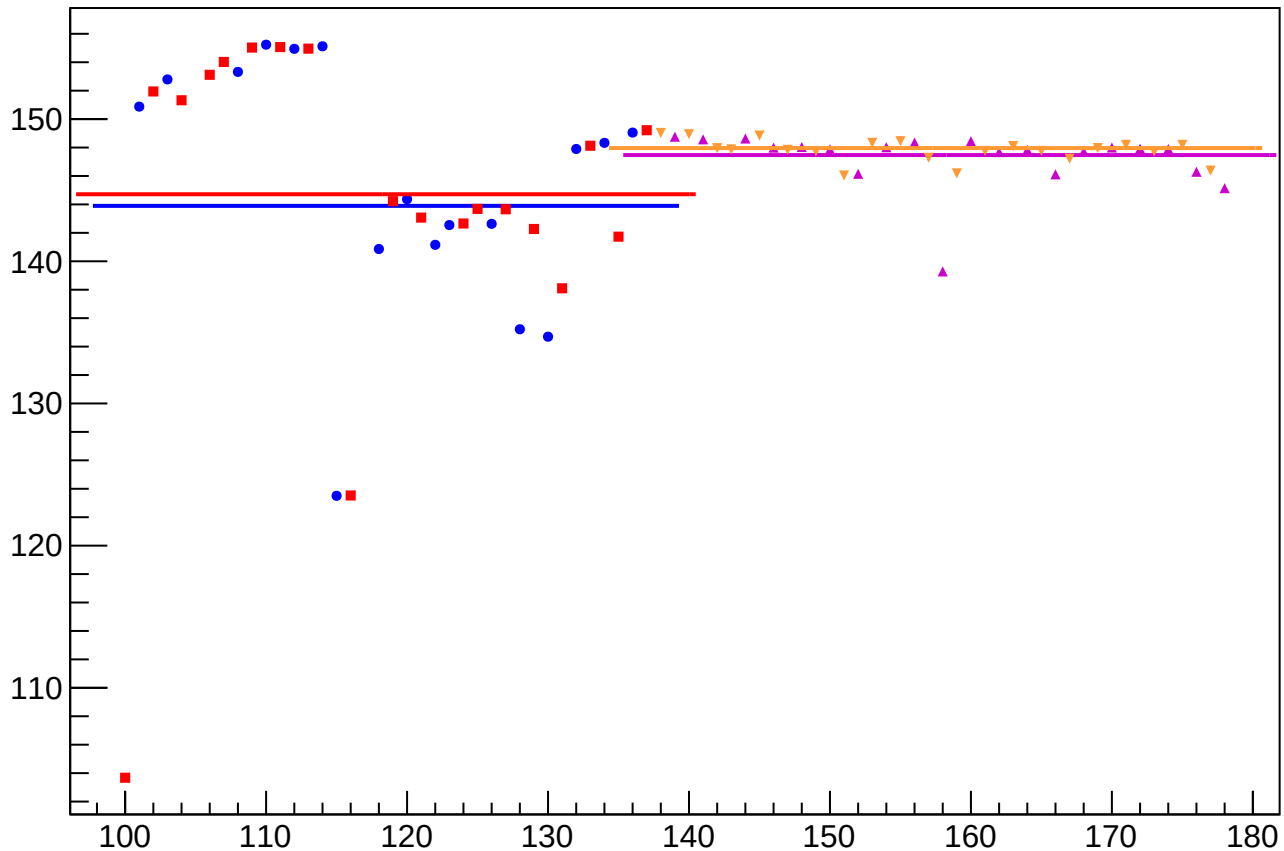
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2503090.8/35

In: 0.383 $\pm$ 0.000 χ^2 /NDF:3318319.1/36

Out: 0.381 $\pm$ 0.000 χ^2 /NDF:3340251.8/39

All: 0.382 $\pm$ 0.000 χ^2 /NDF: 6659245.3/76

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 147.962 $\pm$ 0.000 χ^2 /NDF: 58481007.9/20

Right Out: 144.715 $\pm$ 0.000 χ^2 /NDF: 4474458988.7/18

Left In: 147.471 $\pm$ 0.000 χ^2 /NDF: 342483964.3/19

Left: 147.723 $\pm$ 0.000 χ^2 /NDF: 410807044.0/40

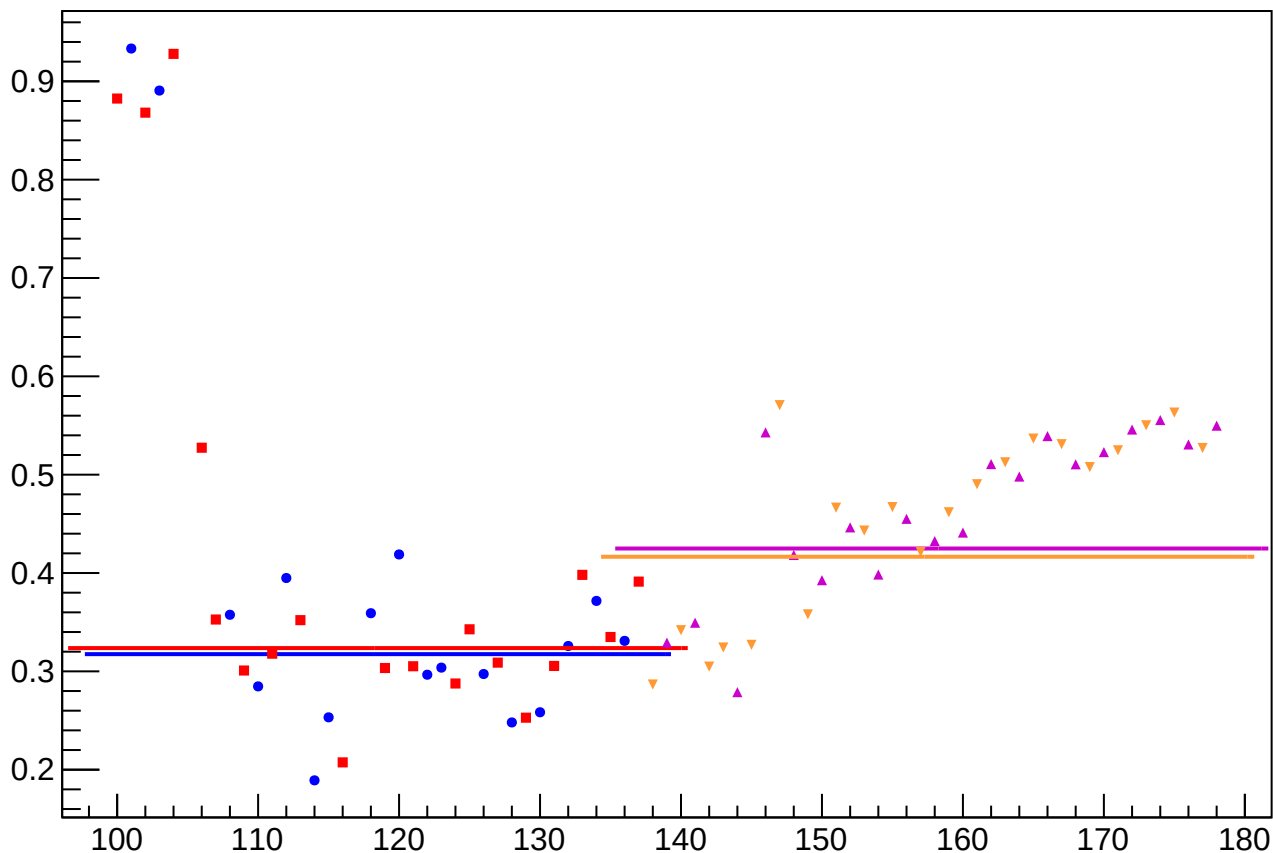
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 146.004 $\pm$ 0.000 χ^2 /NDF: 4508551125.6/36

Out: 146.662 $\pm$ 0.000 χ^2 /NDF: 4886698497.2/39

All: 146.339 $\pm$ 0.000 χ^2 /NDF: 9424926190.8

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1293179.2/16

Left Out: 0.417 $\pm$ 0.000 χ^2 /NDF:1488870.5/20

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1221676.7/18

Left In: 0.425 $\pm$ 0.000 χ^2 /NDF:1250673.5/19

Left: 0.421 $\pm$ 0.000 χ^2 /NDF: 2745260.5/40

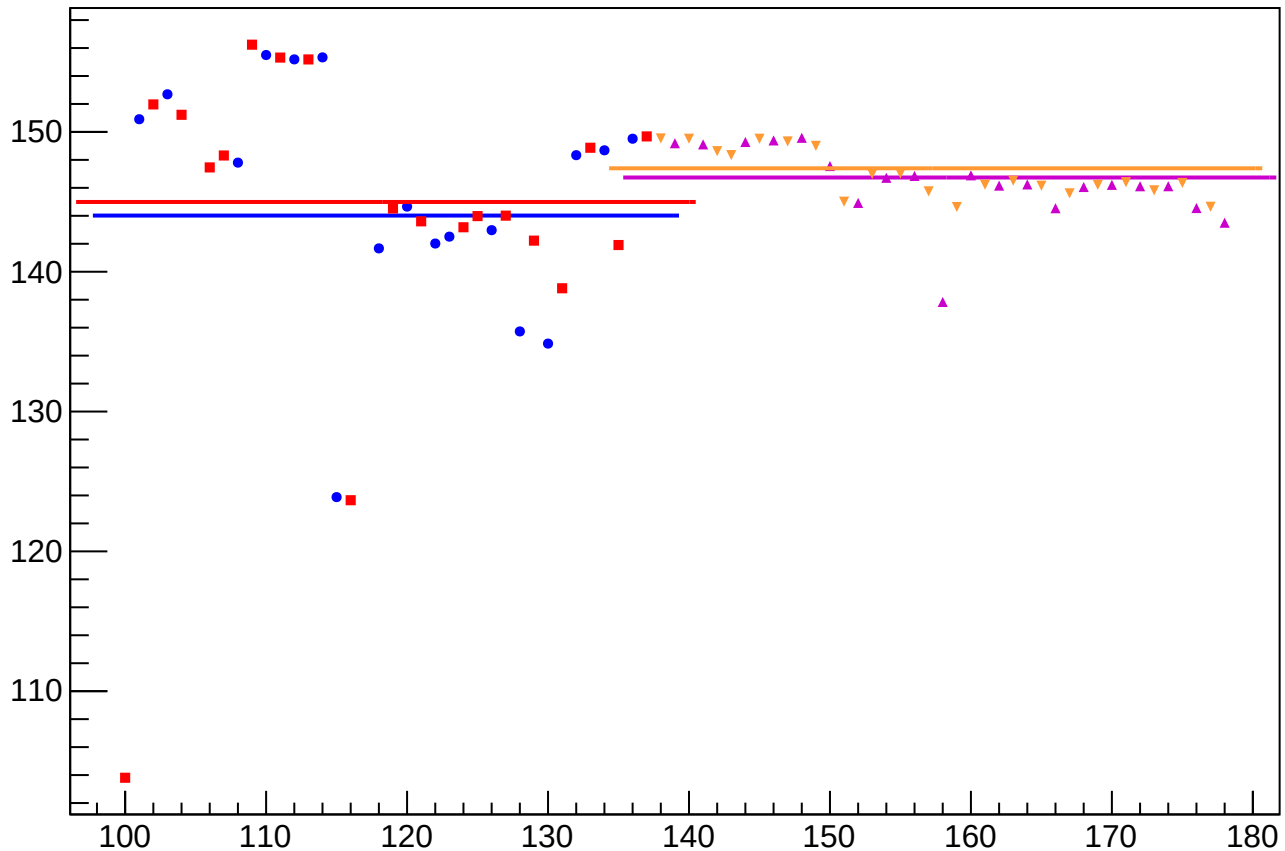
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2516974.9/35

In: 0.381 $\pm$ 0.000 χ^2 /NDF:3296495.0/36

Out: 0.379 $\pm$ 0.000 χ^2 /NDF:3289414.7/39

All: 0.380 $\pm$ 0.000 χ^2 /NDF: 6586202.2/76

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 ± 0.000 $\chi^2/\text{NDF}: 3238525527.6/16$

Left Out: 147.398 ± 0.000 $\chi^2/\text{NDF}: 233693170.3/20$

Right Out: 144.990 ± 0.000 $\chi^2/\text{NDF}: 3853449012.9/18$

Left In: 146.740 ± 0.000 $\chi^2/\text{NDF}: 551733417.1/19$

Left: 147.077 ± 0.000 $\chi^2/\text{NDF}: 802144364.1/40$

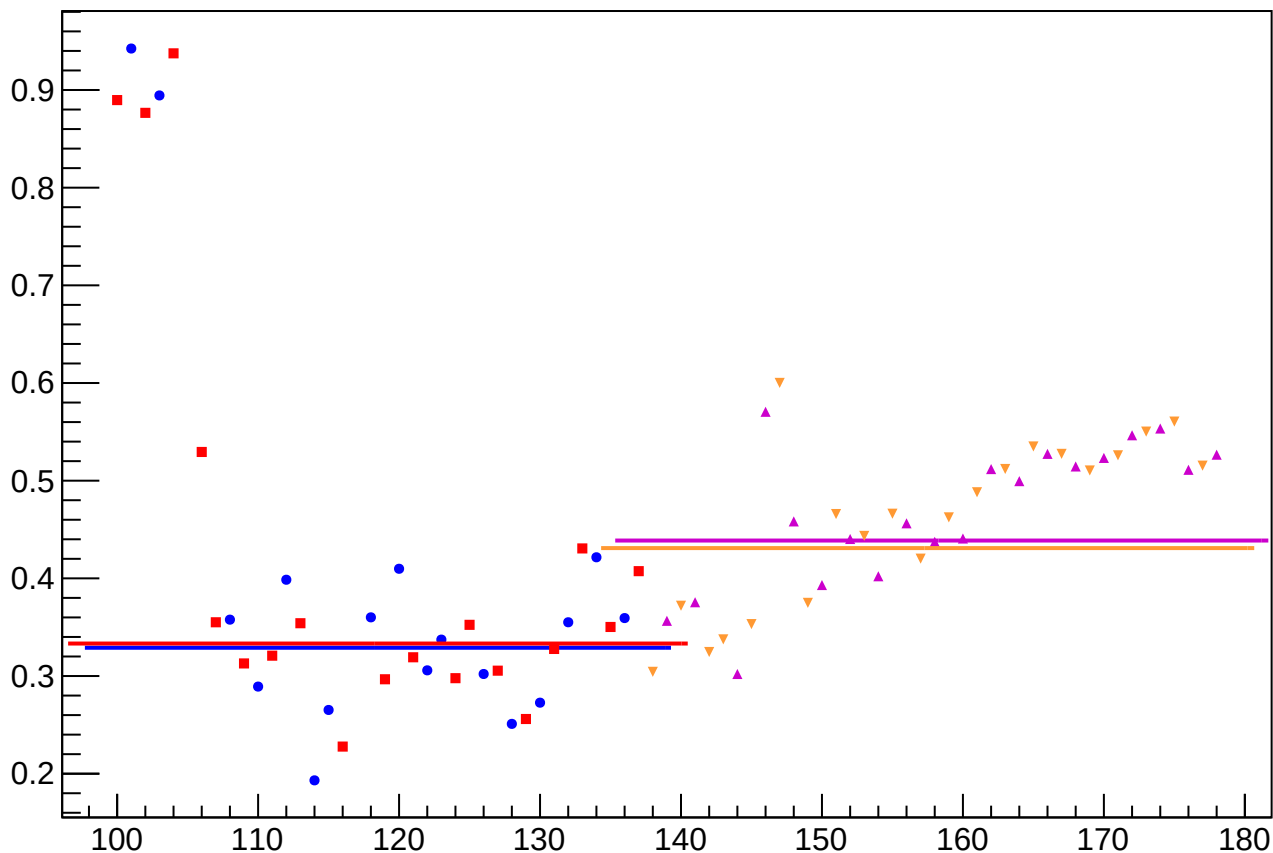
Right: 144.510 ± 0.000 $\chi^2/\text{NDF}: 7116582298.0/35$

In: 145.636 ± 0.000 $\chi^2/\text{NDF}: 4016577179.4/36$

Out: 146.434 ± 0.000 $\chi^2/\text{NDF}: 4270488045.0/39$

All: 146.043 ± 0.000 $\chi^2/\text{NDF}: 8328244485.8$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.431+/-0.000 χ^2/NDF : 1150066.4/20

Right Out: 0.333+/-0.000 χ^2/NDF : 1182496.7/18

Left In: 0.439+/-0.000 χ^2/NDF : 917596.1/19

Left: 0.435+/-0.000 χ^2/NDF : 2072281.5/40

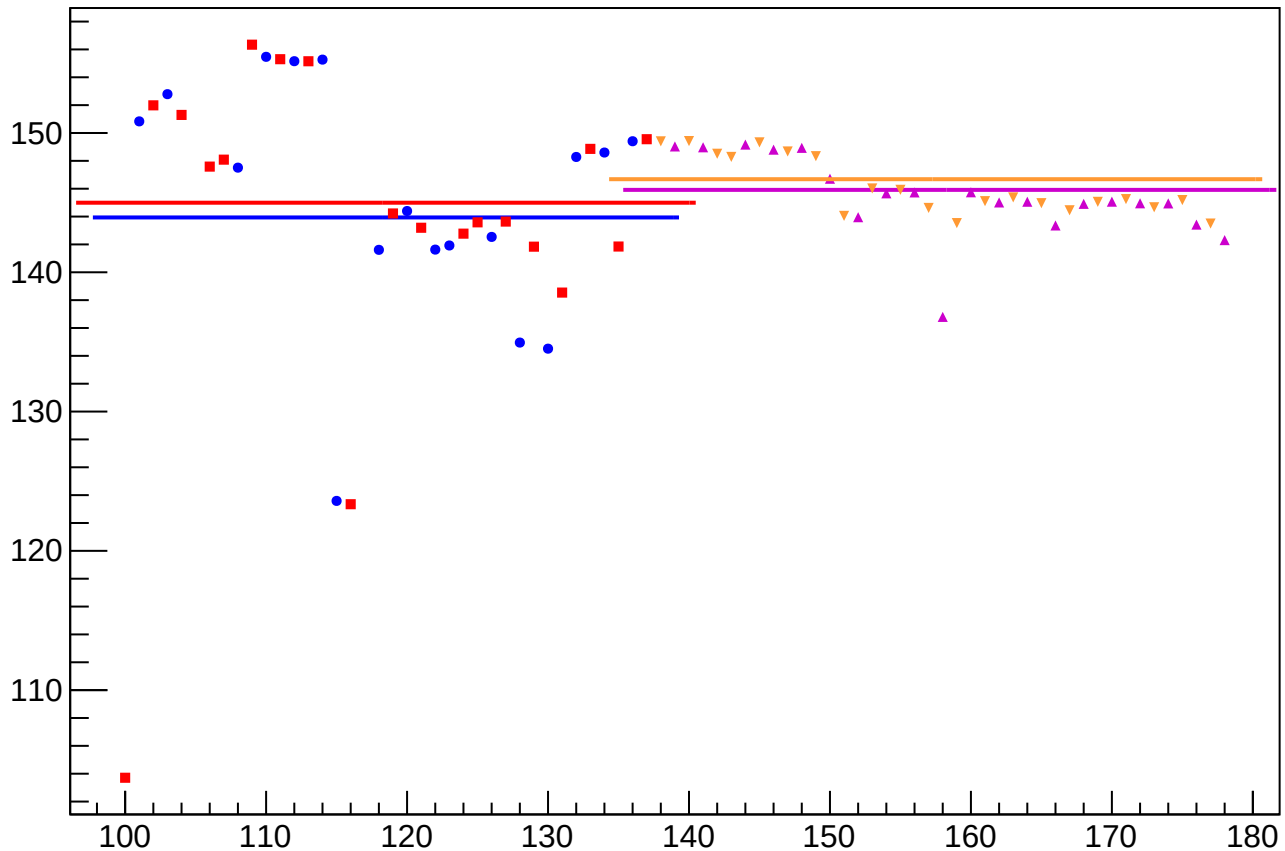
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.394+/-0.000 χ^2/NDF : 2929681.1/36

Out: 0.392+/-0.000 χ^2/NDF : 2936297.0/39

All: 0.393+/-0.000 χ^2/NDF : 5866684.3/76

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 ± 0.000 $\chi^2/\text{NDF}: 3379203532.9/16$

Left Out: 146.683 ± 0.000 $\chi^2/\text{NDF}: 359377242.3/20$

Right Out: 144.995 ± 0.000 $\chi^2/\text{NDF}: 3934069043.2/18$

Left In: 145.916 ± 0.000 $\chi^2/\text{NDF}: 683349473.0/19$

Left: 146.310 ± 0.000 $\chi^2/\text{NDF}: 1065258531.6/40$

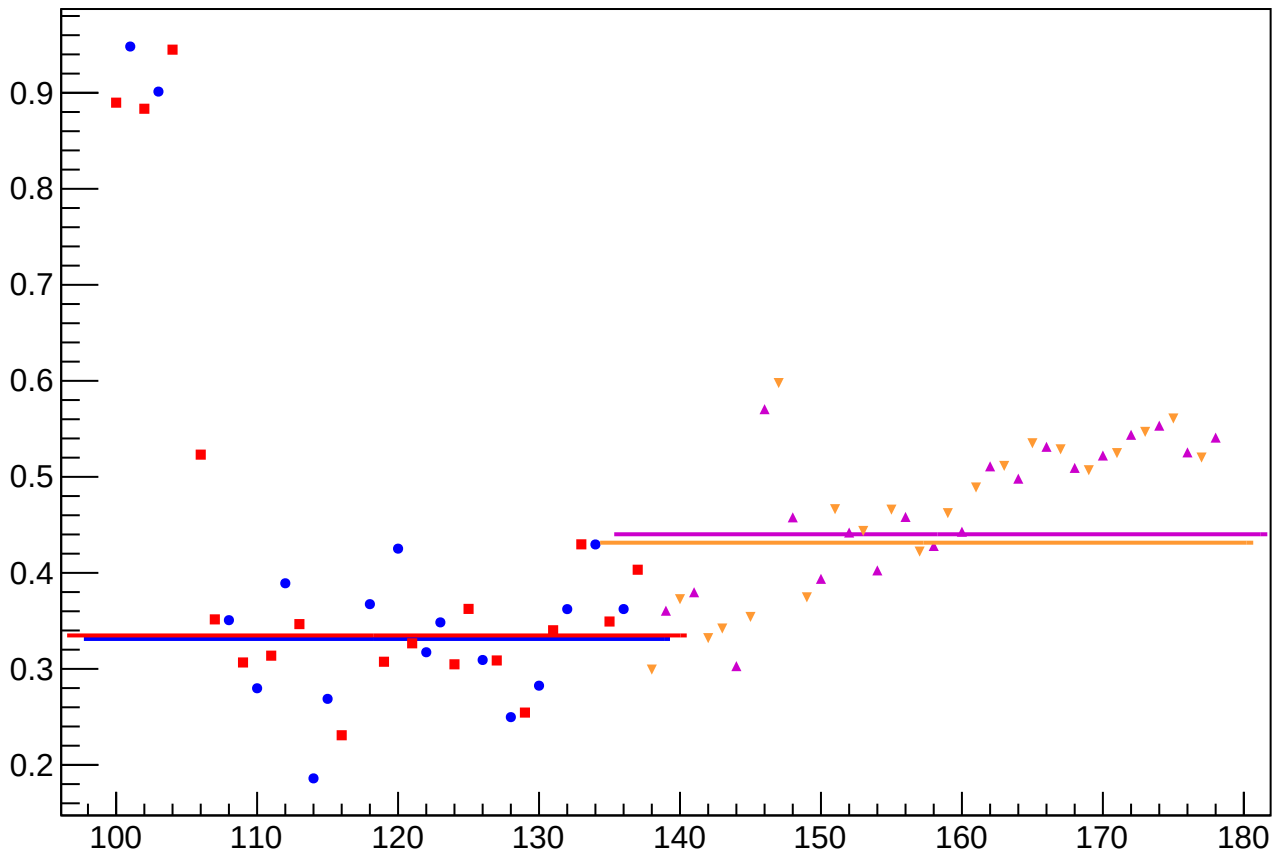
Right: 144.474 ± 0.000 $\chi^2/\text{NDF}: 7341982360.6/35$

In: 145.118 ± 0.000 $\chi^2/\text{NDF}: 4180631830.0/36$

Out: 146.010 ± 0.000 $\chi^2/\text{NDF}: 4382821792.1/39$

All: 145.574 ± 0.000 $\chi^2/\text{NDF}: 8614424073.9$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.431+/-0.000 χ^2/NDF : 1142664.7/20

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.440+/-0.000 χ^2/NDF : 910106.4/19

Left: 0.436+/-0.000 χ^2/NDF : 2058675.6/40

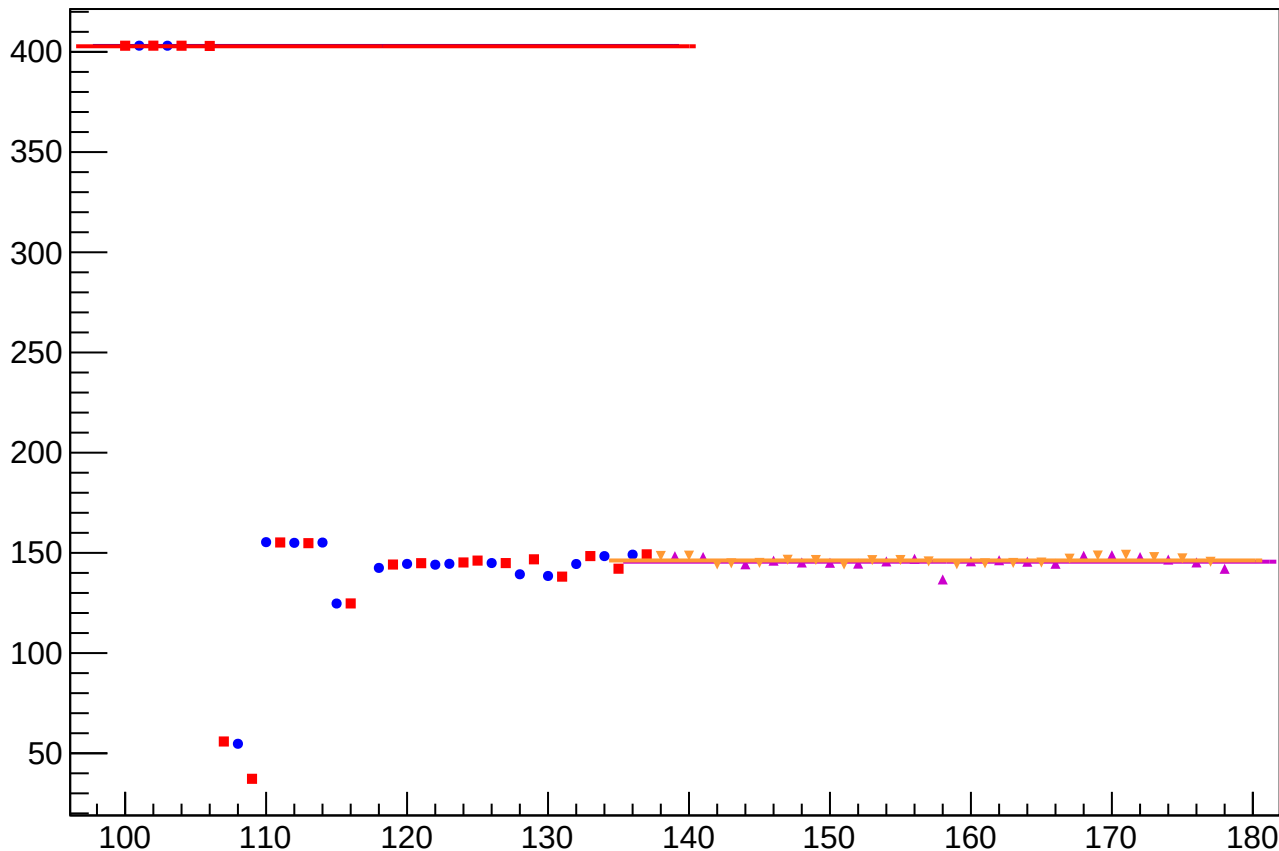
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.396+/-0.000 χ^2/NDF : 2922429.8/36

Out: 0.393+/-0.000 χ^2/NDF : 2900317.7/39

All: 0.395+/-0.000 χ^2/NDF : 5824127.2/76

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000

χ^2/NDF : 1096710296821.6/16

Left: 145.903+/-0.000

χ^2/NDF : 272303768.2/40

Left Out: 146.211+/-0.000

χ^2/NDF : 74713797.7/20

Right: 402.873+/-0.000

χ^2/NDF : 4201017642924.7/16

Right Out: 402.799+/-0.000

χ^2/NDF : 3103890772575.4/18

In: 402.700+/-0.000

χ^2/NDF : 3162061467000.8/30

Left In: 145.602+/-0.000

χ^2/NDF : 191867869.4/19

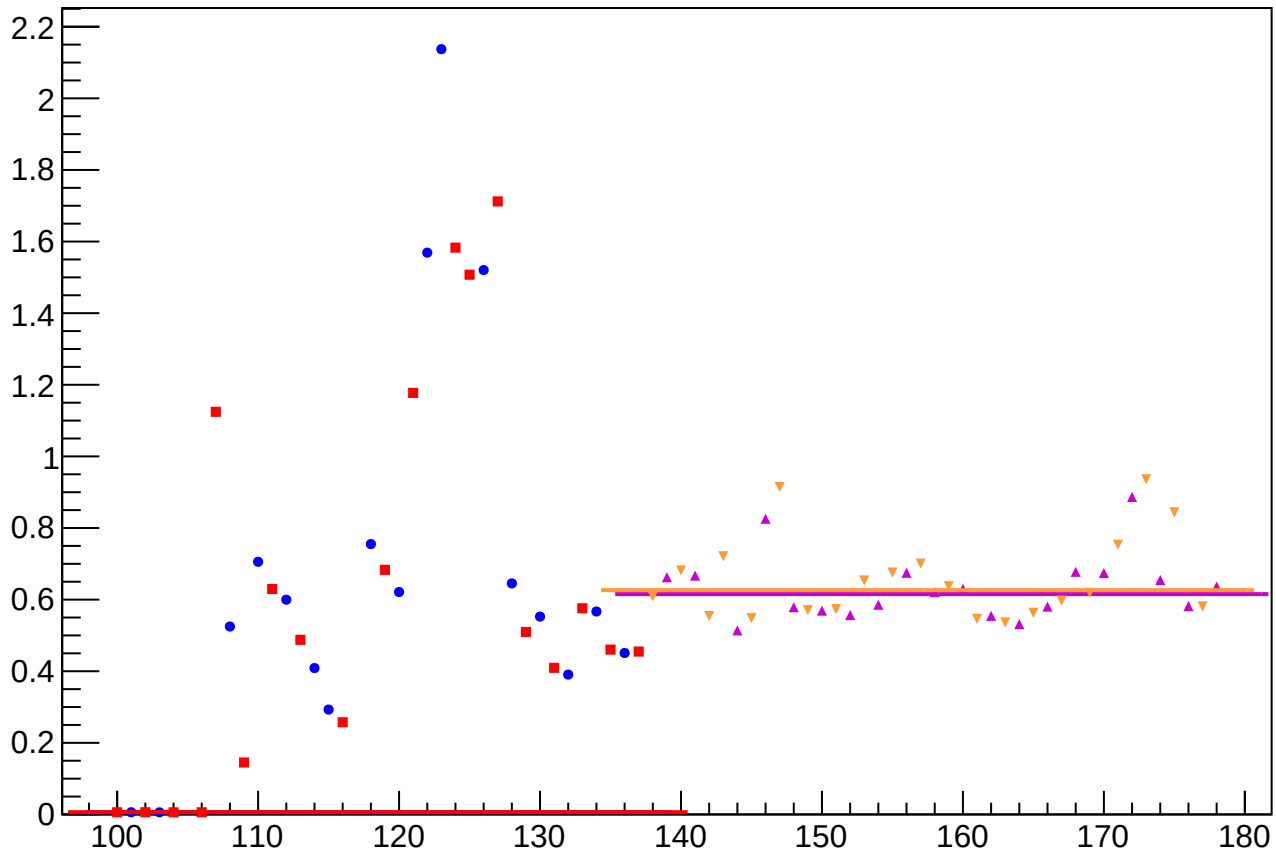
Out: 402.578+/-0.000

χ^2/NDF : 5103921161817.5/30

All: 402.635+/-0.000

χ^2/NDF : 826622960394.7/160

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.626+/-0.000 χ^2/NDF : 558007.7/20

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.615+/-0.000 χ^2/NDF : 352118.4/19

Left: 0.621+/-0.000 χ^2/NDF : 913893.0/40

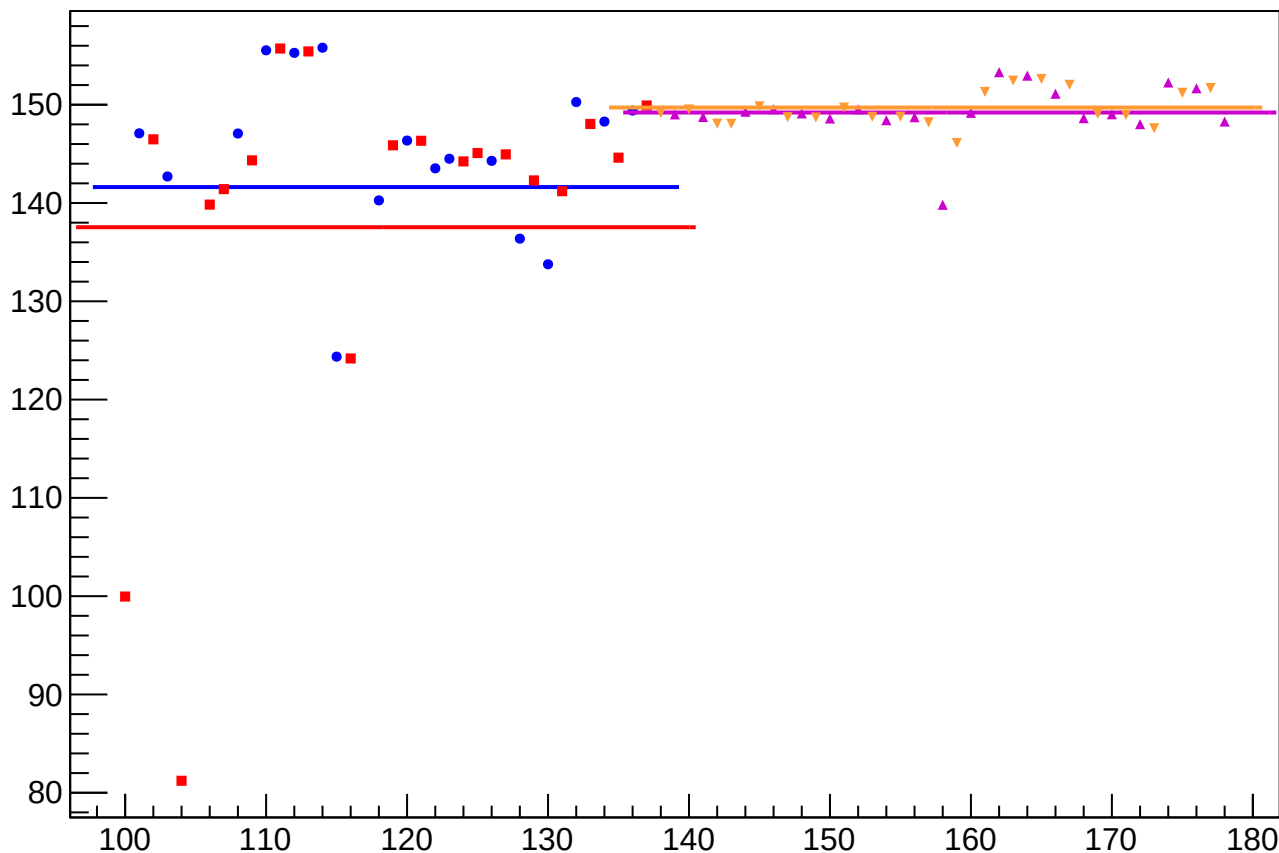
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF : 32648251.1/36

Out: 0.007+/-0.000 χ^2/NDF : 33136128.1/39

All: 0.007+/-0.000 χ^2/NDF : 65784628.3/76

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 $\pm$ 0.000 χ^2 /NDF: 982037737.7/16

Left Out: 149.715 $\pm$ 0.000 χ^2 /NDF: 140403963.3/20

Right Out: 137.536 $\pm$ 0.000 χ^2 /NDF: 1315768553.6/18

Left In: 149.207 $\pm$ 0.000 χ^2 /NDF: 403170939.7/19

Left: 149.465 $\pm$ 0.000 χ^2 /NDF: 549303824.8/40

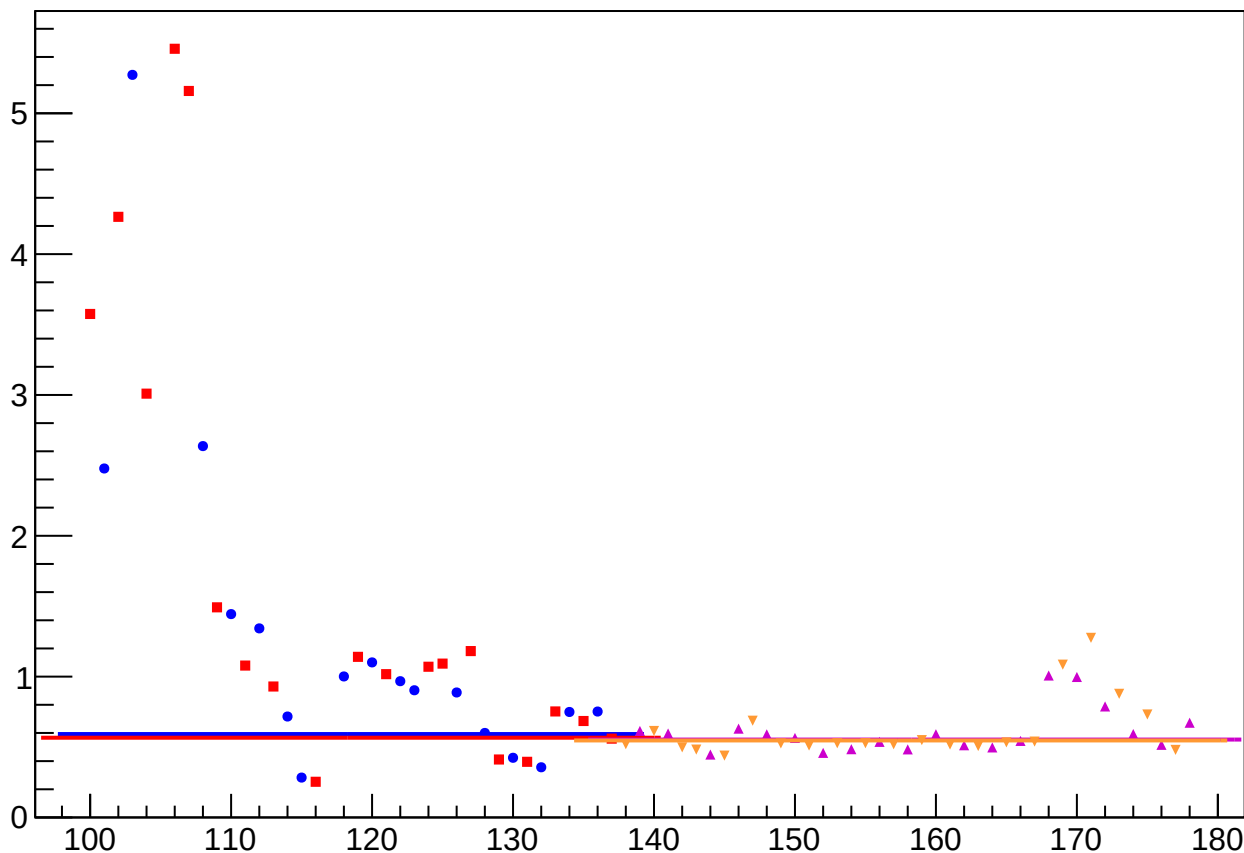
Right: 139.530 $\pm$ 0.000 χ^2 /NDF: 2384319562.8/35

In: 147.777 $\pm$ 0.000 χ^2 /NDF: 1857638638.9/36

Out: 147.390 $\pm$ 0.000 χ^2 /NDF: 2730765317.3/39

All: 147.580 $\pm$ 0.000 χ^2 /NDF: 4592498760.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.547 $\pm$ 0.000 χ^2 /NDF:1342814.2/20

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4682140.9/18

Left In: 0.553 $\pm$ 0.000 χ^2 /NDF:1014813.6/19

Left: 0.550 $\pm$ 0.000 χ^2 /NDF: 2359333.7/40

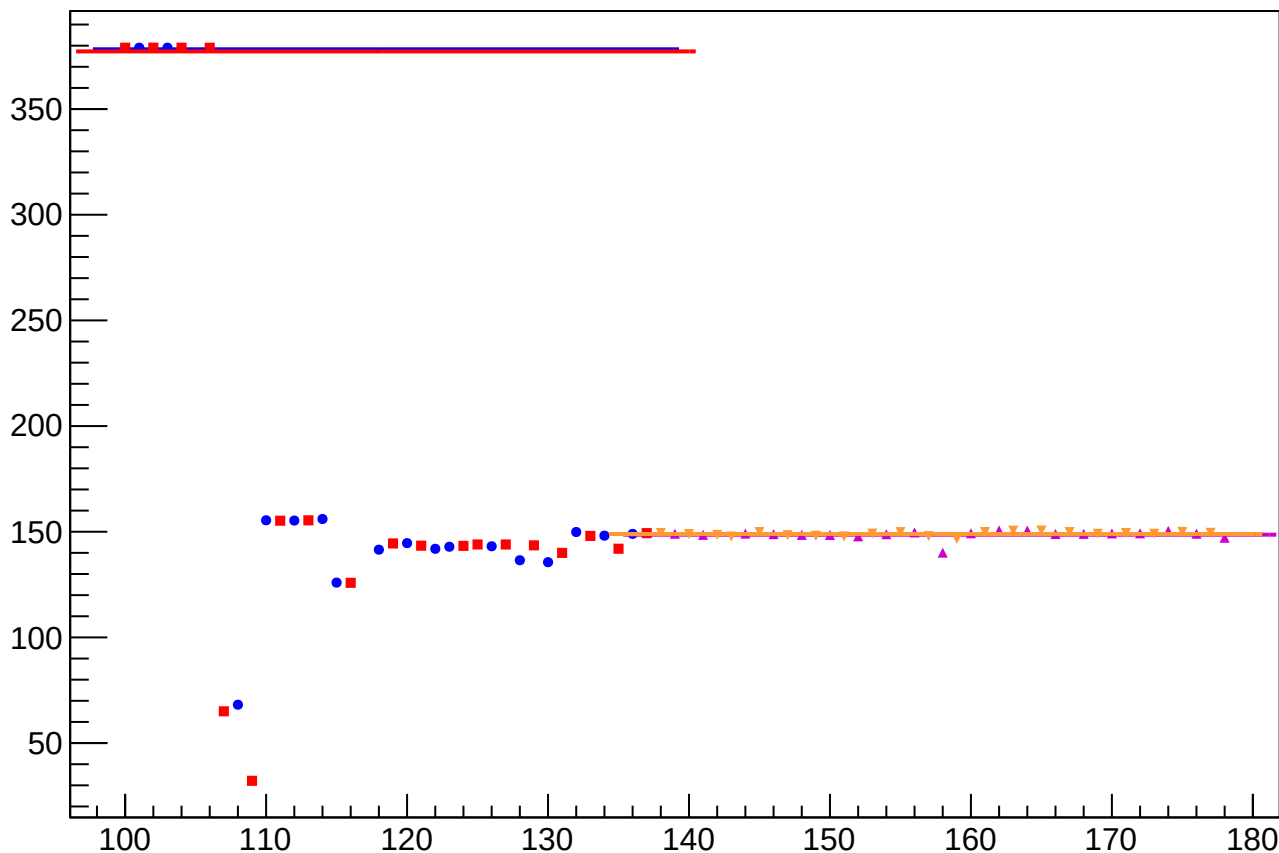
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.560 $\pm$ 0.000 χ^2 /NDF:4561623.6/36

Out: 0.551 $\pm$ 0.000 χ^2 /NDF:6031366.6/39

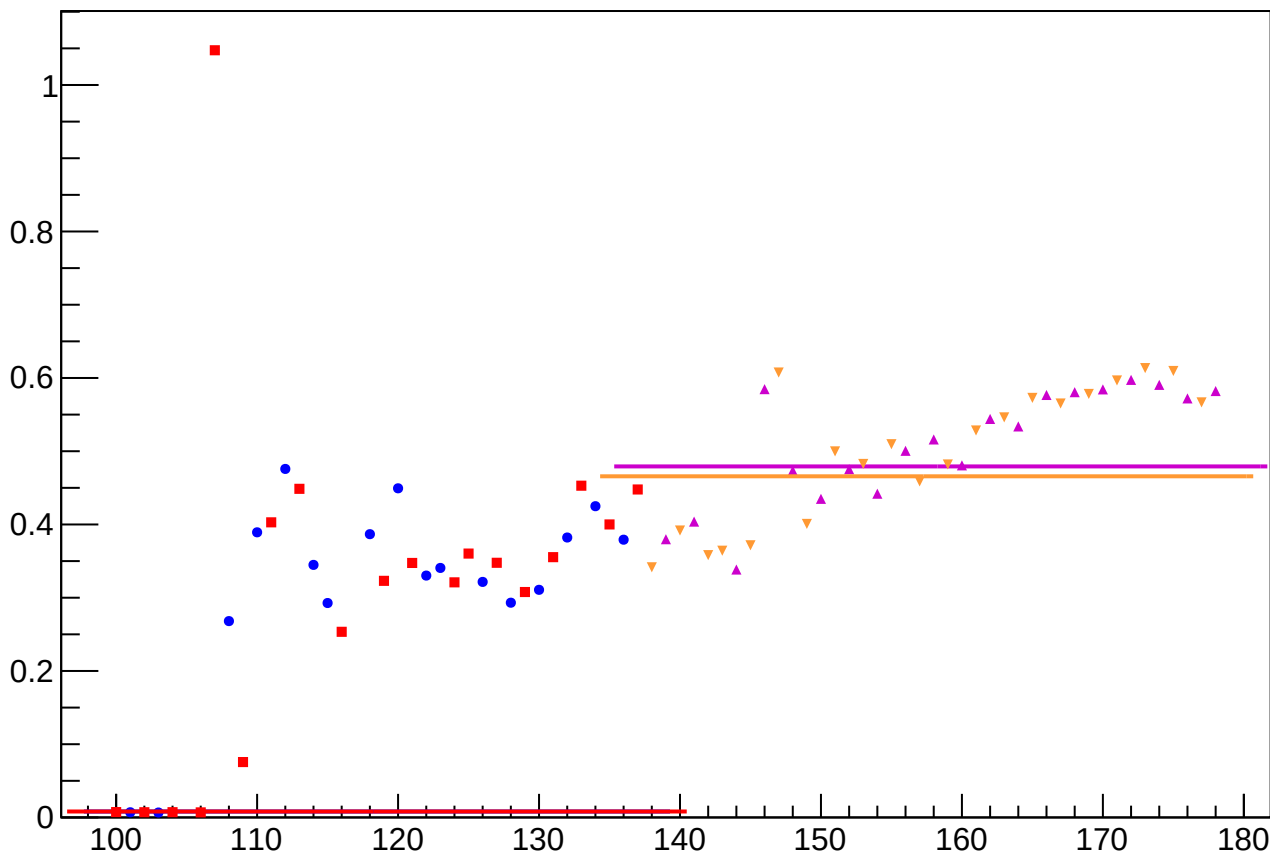
All: 0.555 $\pm$ 0.000 χ^2 /NDF: 10598353.5/76

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.772+/-0.000	χ^2/NDF : 314360142.5/40
Left Out: 148.923+/-0.000	χ^2/NDF : 63768024.7/20	Right: 377.753+/-0.000	χ^2/NDF : 10798714881373.0
Right Out: 377.289+/-0.000	χ^2/NDF : 8279468194444.1/18	In: 377.192+/-0.000	χ^2/NDF : 5844524576271.8/30
Left In: 148.610+/-0.000	χ^2/NDF : 247361812.2/19	Out: 376.271+/-0.000	χ^2/NDF : 11811196484814.9
		All: 376.701+/-0.000	χ^2/NDF : 176617716828.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.466 $\pm$ 0.000 χ^2 /NDF: 1155639.9/20

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.479 $\pm$ 0.000 χ^2 /NDF: 885400.1/19

Left: 0.472 $\pm$ 0.000 χ^2 /NDF: 2053008.5/40

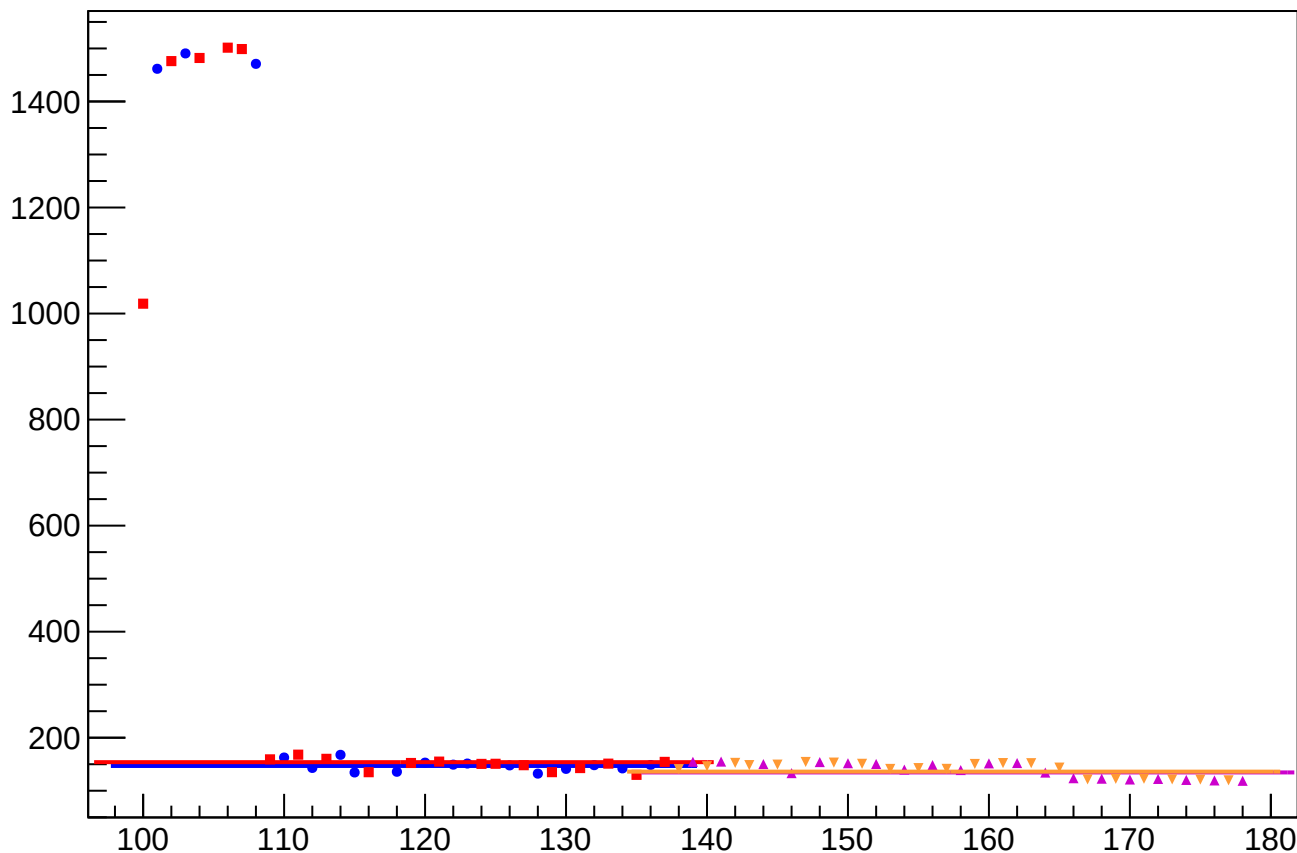
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 38813665.6/36

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 39054056.0/39

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 77868153.9/76

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000 χ^2/NDF : 24350870553.3/16

Left Out: 136.017+/-0.000 χ^2/NDF : 3672607345.4/20

Right Out: 153.887+/-0.000 χ^2/NDF : 33738118250.9/18

Left In: 134.518+/-0.000 χ^2/NDF : 3932592652.5/19

Left: 135.274+/-0.000 χ^2/NDF : 7627949020.7/40

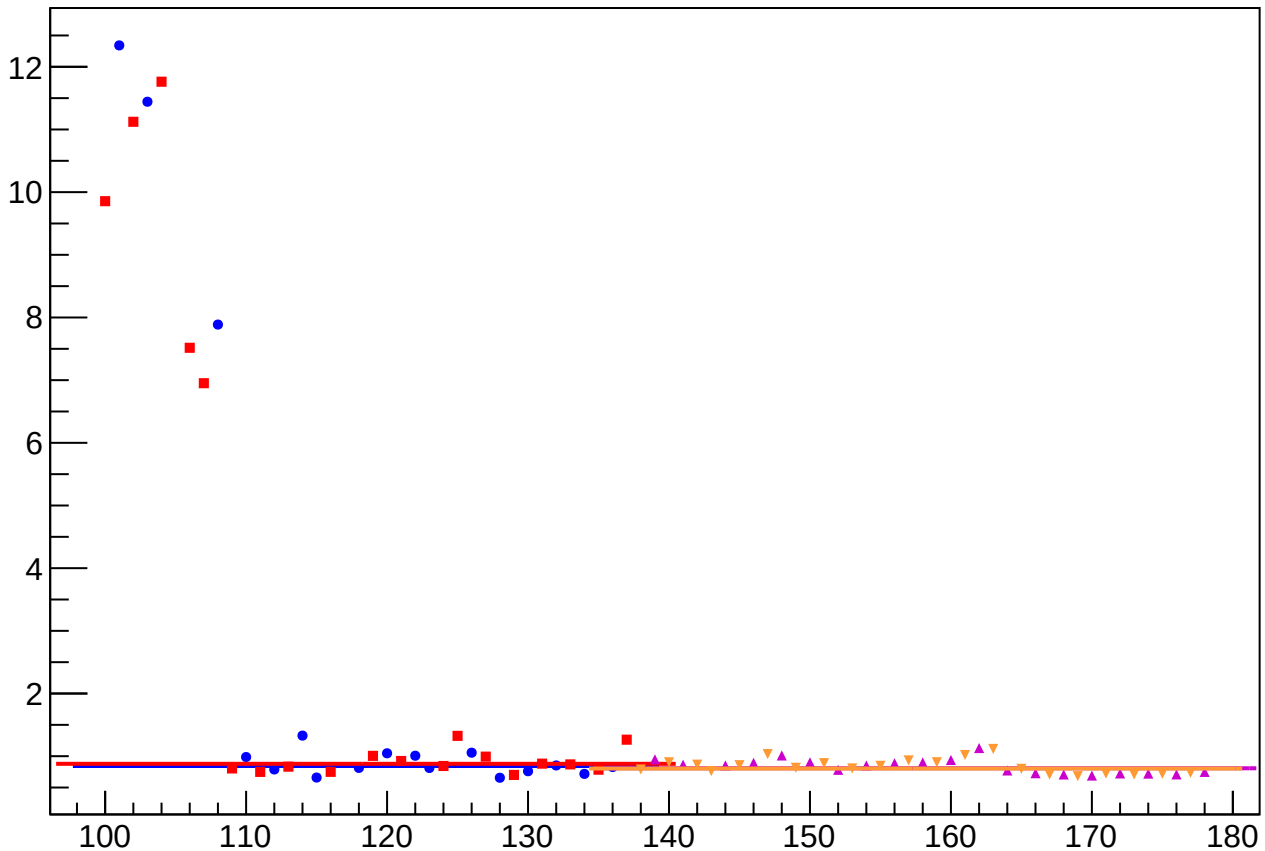
Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

In: 137.090+/-0.000 χ^2/NDF : 28913094629.8/36

Out: 139.698+/-0.000 χ^2/NDF : 38752337651.7/39

All: 138.401+/-0.000 χ^2/NDF : 67752337915.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.803+/-0.000 χ^2/NDF : 462590.0/20

Right Out: 0.878+/-0.000 χ^2/NDF : 2812500.6/18

Left In: 0.807+/-0.000 χ^2/NDF : 443756.6/19

Left: 0.805+/-0.000 χ^2/NDF : 906613.8/40

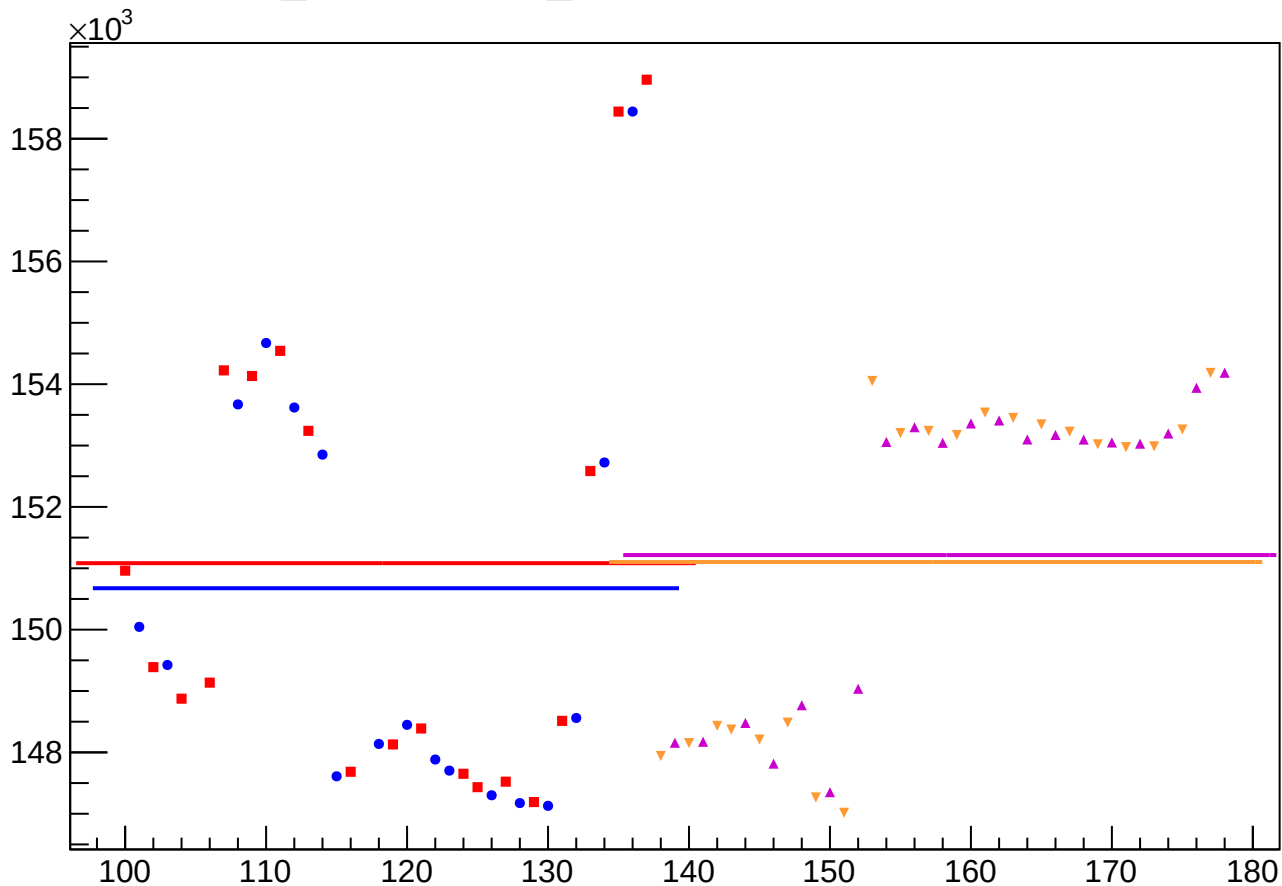
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.815+/-0.000 χ^2/NDF : 3125535.2/36

Out: 0.819+/-0.000 χ^2/NDF : 3322228.4/39

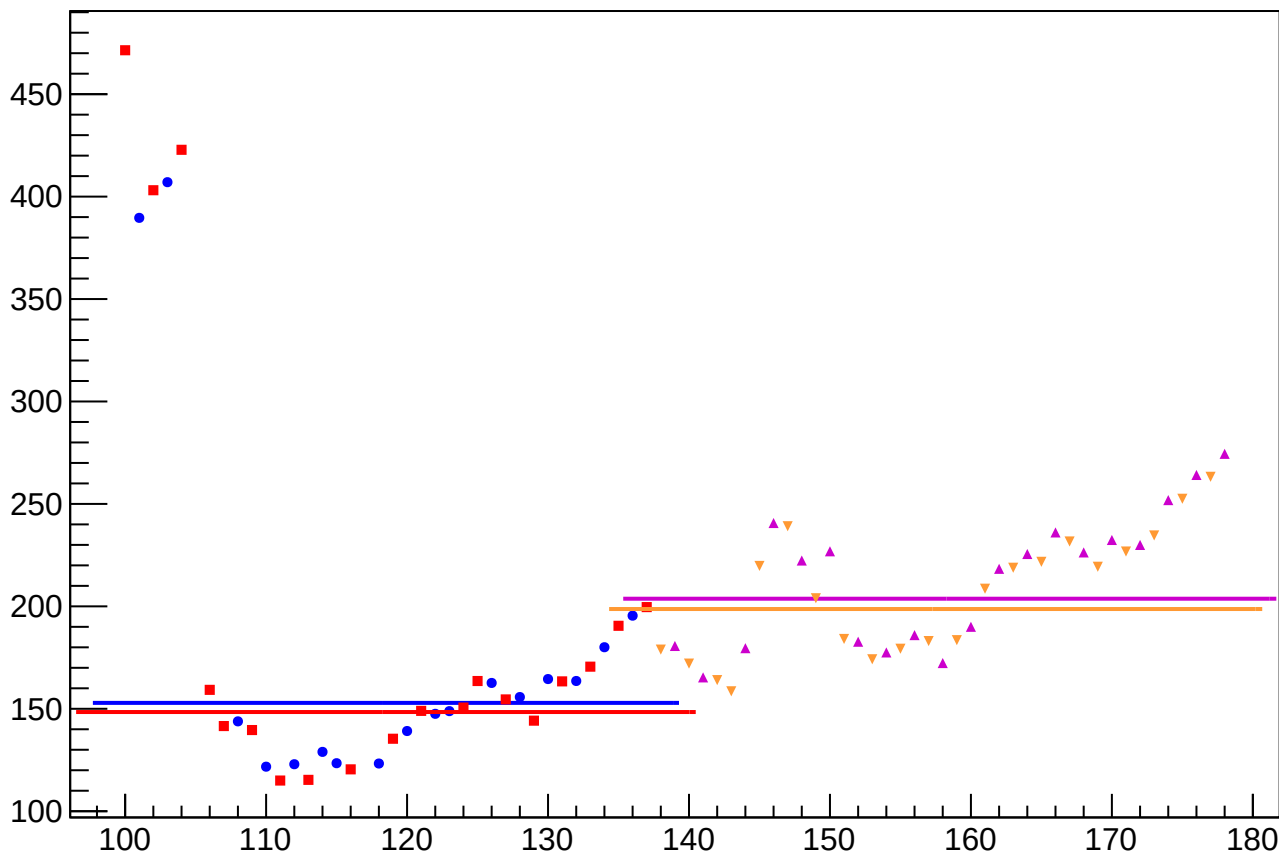
All: 0.817+/-0.000 χ^2/NDF : 6448189.8/76

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063	χ^2 /NDF: 3309974859.4/16	Left: 151156.745 $\pm$ 0.037	χ^2 /NDF: 5037212187.0/16
Left Out: 151102.525 $\pm$ 0.051	χ^2 /NDF: 2844301902.3/20	Right: 150890.022 $\pm$ 0.043	χ^2 /NDF: 6632946370.1/16
Right Out: 151083.268 $\pm$ 0.060	χ^2 /NDF: 3300830370.5/18	In: 150992.651 $\pm$ 0.040	χ^2 /NDF: 5543796404.7/30
Left In: 151215.246 $\pm$ 0.053	χ^2 /NDF: 2190536622.0/19	Out: 151094.447 $\pm$ 0.039	χ^2 /NDF: 6145192687.8/30
		All: 151045.806 $\pm$ 0.028	χ^2 /NDF: 116923017.0/100

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2/NDF : 1154088.7/16

Left Out: 198.697 $\pm$ 0.036 χ^2/NDF : 618371.1/20

Right Out: 148.418 $\pm$ 0.042 χ^2/NDF : 1191577.6/18

Left In: 203.729 $\pm$ 0.037 χ^2/NDF : 674305.3/19

Left: 201.118 $\pm$ 0.026 χ^2/NDF : 1302136.3/40

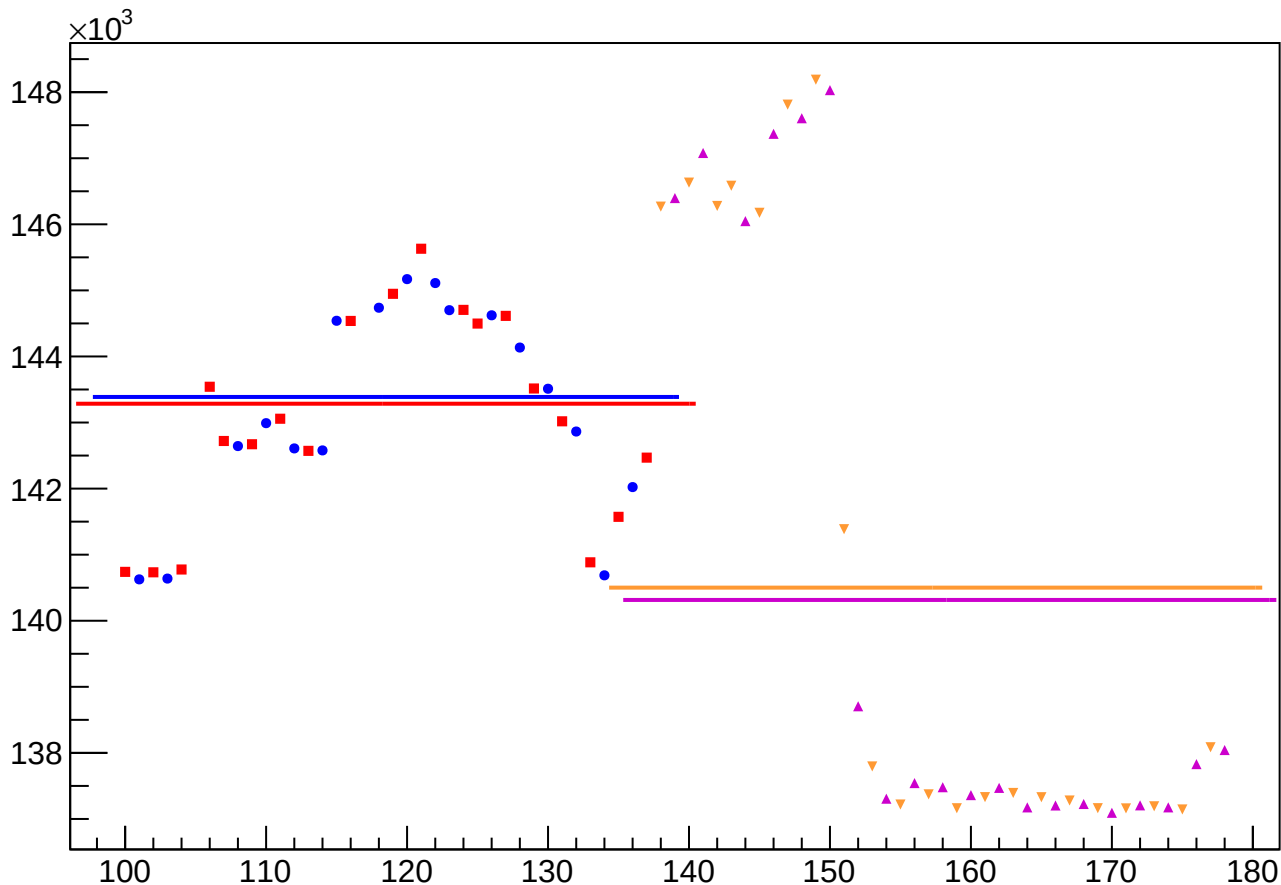
Right: 150.532 $\pm$ 0.031 χ^2/NDF : 2350963.4/35

In: 182.778 $\pm$ 0.029 χ^2/NDF : 2595289.4/36

Out: 177.606 $\pm$ 0.027 χ^2/NDF : 2633679.8/39

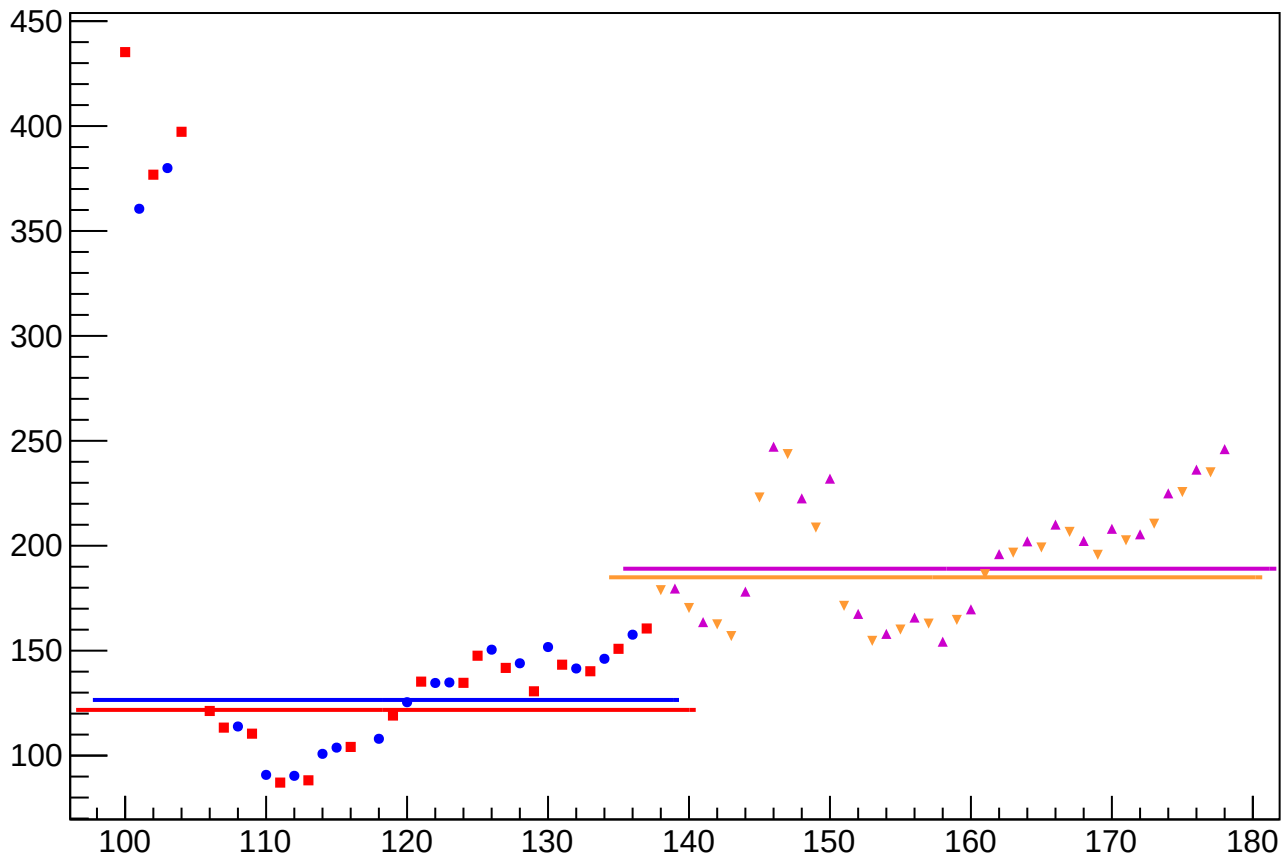
All: 180.077 $\pm$ 0.020 χ^2/NDF : 5246076.5/76

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053	χ^2 /NDF: 521299875.7/16	Left: 140411.363 $\pm$ 0.034	χ^2 /NDF: 16251102600.7
Left Out: 140501.307 $\pm$ 0.047	χ^2 /NDF: 8366888295.0/20	Right: 143332.291 $\pm$ 0.036	χ^2 /NDF: 1131952524.8
Right Out: 143284.757 $\pm$ 0.049	χ^2 /NDF: 608634820.1/18	In: 141737.024 $\pm$ 0.036	χ^2 /NDF: 10221707129.6/3
Left In: 140314.772 $\pm$ 0.049	χ^2 /NDF: 7876694393.5/19	Out: 141839.128 $\pm$ 0.034	χ^2 /NDF: 10644556321.4
		All: 141790.750 $\pm$ 0.025	χ^2 /NDF: 208705262

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 184.958 $\pm$ 0.033 χ^2 /NDF: 576651.5/20

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 189.053 $\pm$ 0.035 χ^2 /NDF: 682749.0/19

Left: 186.932 $\pm$ 0.024 χ^2 /NDF: 1266646.7/40

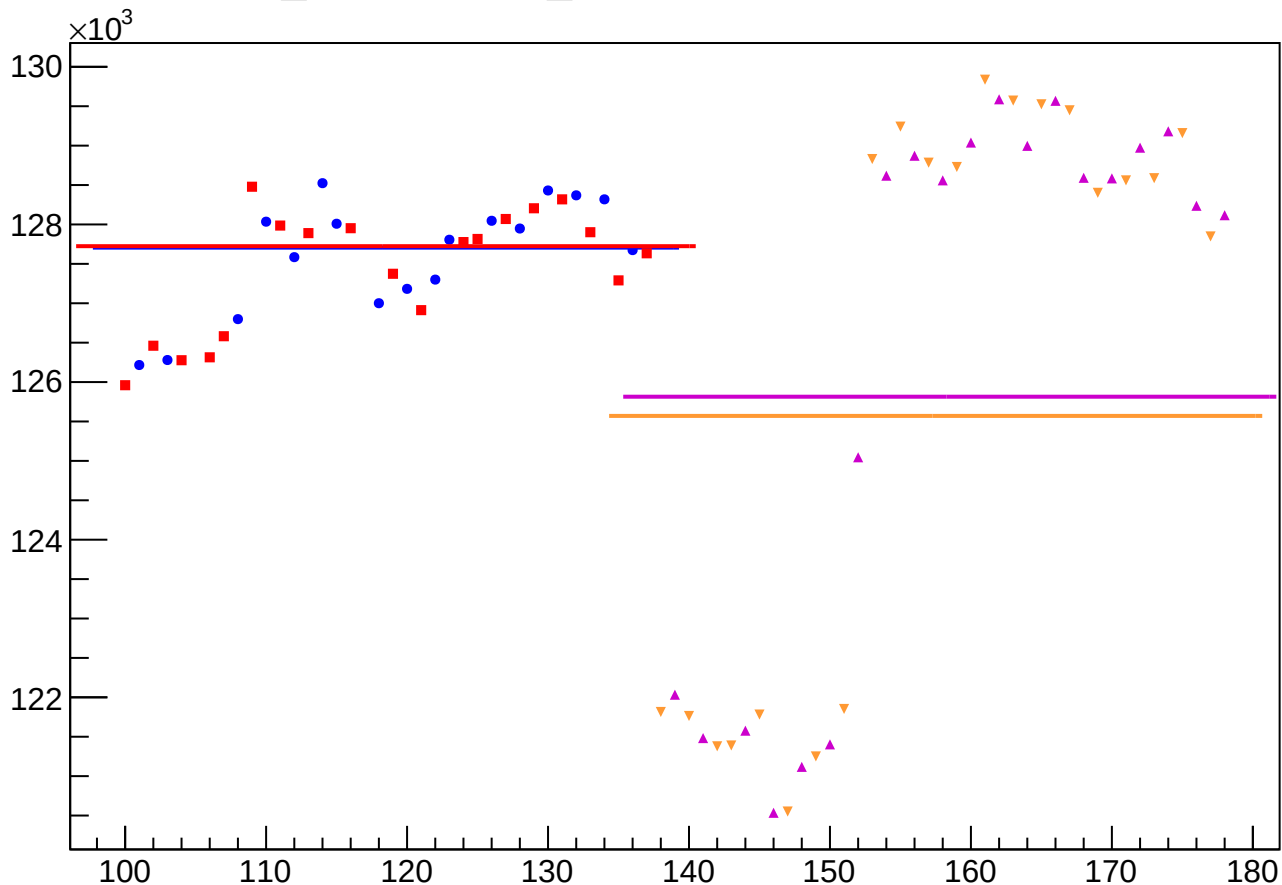
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 160.102 $\pm$ 0.025 χ^2 /NDF: 3635726.2/36

Out: 154.589 $\pm$ 0.024 χ^2 /NDF: 3760647.9/39

All: 157.201 $\pm$ 0.017 χ^2 /NDF: 7421231.5/76

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left Out: 125570.719 $\pm$ 0.047

χ^2 /NDF: 6348801381.7/20

Right Out: 127724.256 $\pm$ 0.055

χ^2 /NDF: 112614317.2/18

Left In: 125814.359 $\pm$ 0.046

χ^2 /NDF: 5668524244.8/19

Left: 125692.889 $\pm$ 0.033

χ^2 /NDF: 12031046503.4

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

In: 126552.541 $\pm$ 0.036

χ^2 /NDF: 6413848248.3/30

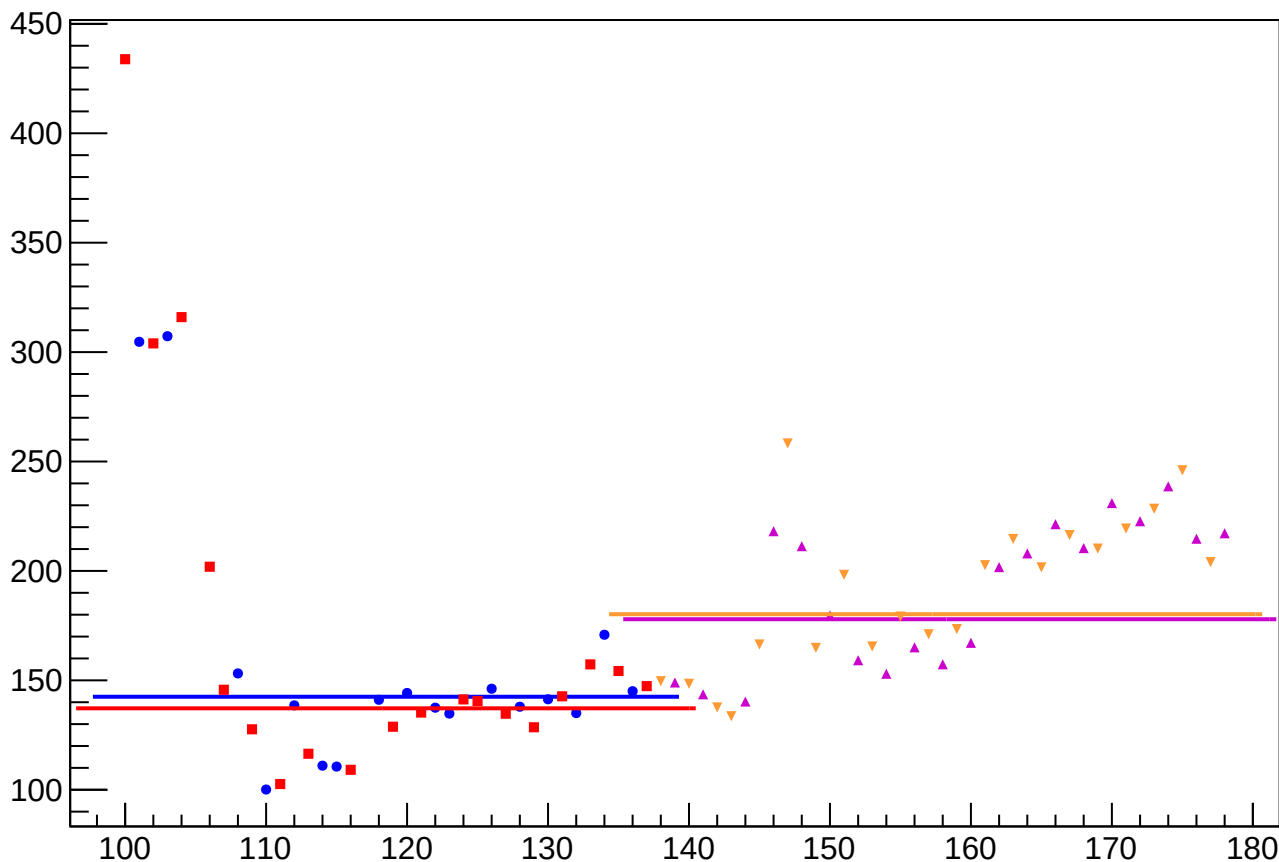
Out: 126479.180 $\pm$ 0.035

χ^2 /NDF: 7363248261.7/3

All: 126514.989 $\pm$ 0.025

χ^2 /NDF: 137791910

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 180.215 $\pm$ 0.033 χ^2 /NDF: 960420.6/20

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 177.922 $\pm$ 0.033 χ^2 /NDF: 921958.4/19

Left: 179.065 $\pm$ 0.023 χ^2 /NDF: 1884809.9/40

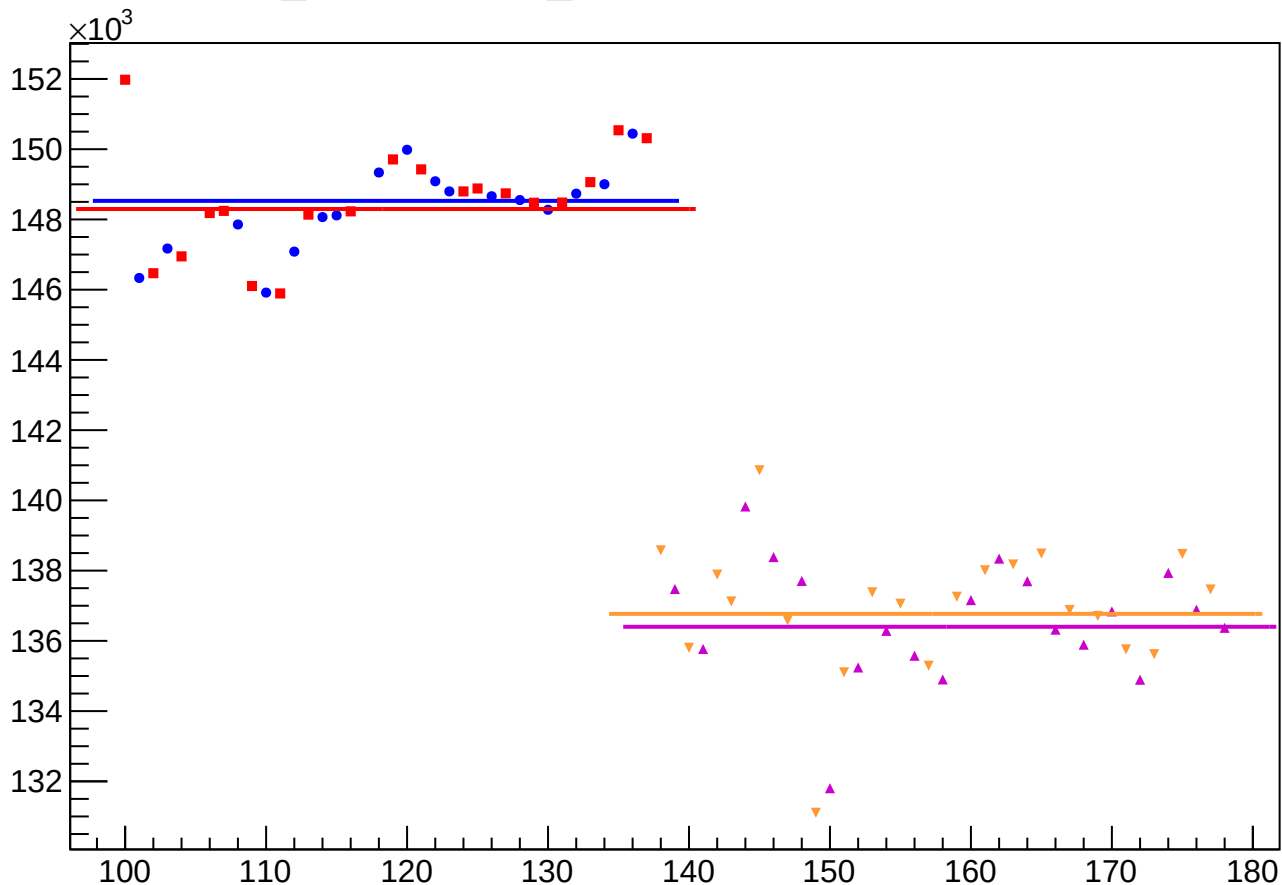
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 164.101 $\pm$ 0.026 χ^2 /NDF: 2212137.0/36

Out: 162.074 $\pm$ 0.025 χ^2 /NDF: 2636940.7/39

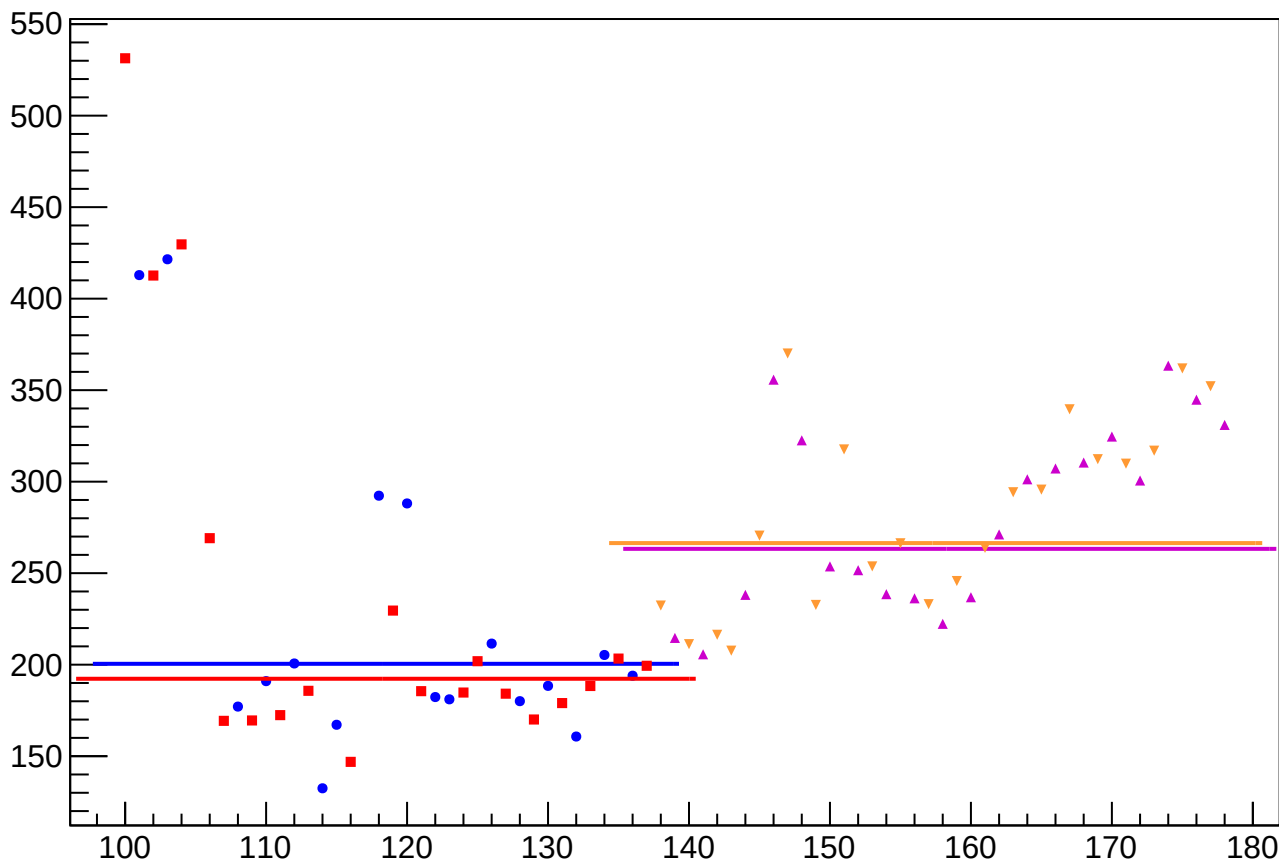
All: 163.063 $\pm$ 0.018 χ^2 /NDF: 4852275.6/76

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 ± 0.082 $\chi^2/\text{NDF}: 209986594.2/16$
 Left Out: 136769.275 ± 0.069 $\chi^2/\text{NDF}: 869111805.0/20$
 Right Out: 148297.126 ± 0.076 $\chi^2/\text{NDF}: 293244556.5/18$
 Left In: 136401.141 ± 0.069 $\chi^2/\text{NDF}: 673303179.3/19$
 Left: 136585.004 ± 0.048 $\chi^2/\text{NDF}: 1556833006.4/4$
 Right: 148404.723 ± 0.056 $\chi^2/\text{NDF}: 507501516.8/3$
 In: 141382.183 ± 0.053 $\chi^2/\text{NDF}: 1375113111.7/3$
 Out: 141913.456 ± 0.051 $\chi^2/\text{NDF}: 13766334984.0/4$
 All: 141655.780 ± 0.037 $\chi^2/\text{NDF}: 27570008$

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 266.438+/-0.049 χ^2/NDF : 932155.9/20

Right Out: 192.304+/-0.054 χ^2/NDF : 844504.1/18

Left In: 263.285+/-0.048 χ^2/NDF : 912068.2/19

Left: 264.860+/-0.034 χ^2/NDF : 1846339.3/40

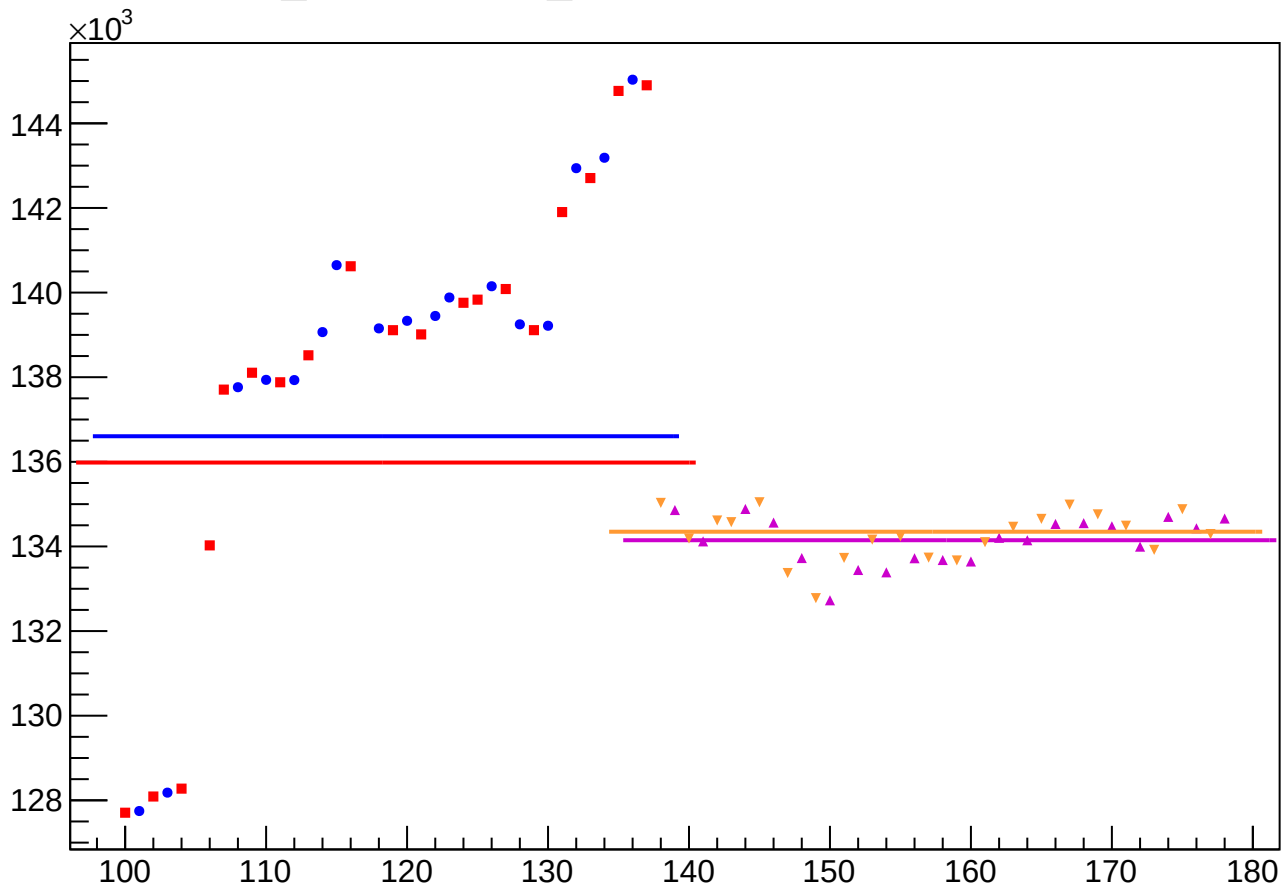
Right: 196.097+/-0.040 χ^2/NDF : 1791663.0/35

In: 237.487+/-0.037 χ^2/NDF : 2538974.7/36

Out: 233.357+/-0.036 χ^2/NDF : 2819154.1/39

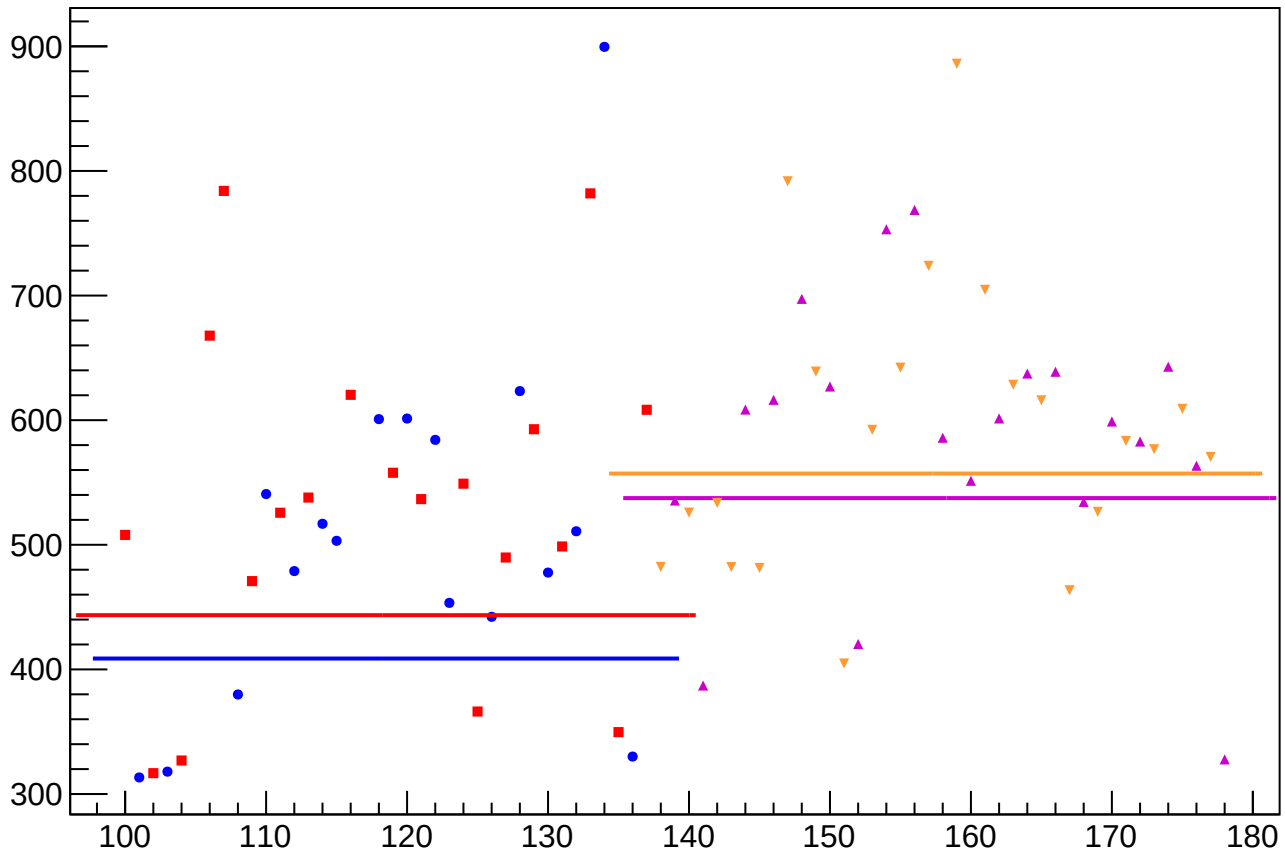
All: 235.360+/-0.026 χ^2/NDF : 5364480.1/76

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2 /NDF: 1494354557.3/16	Left: 134247.972 $\pm$ 0.106	χ^2 /NDF: 28662019.6/40
Left Out: 134348.257 $\pm$ 0.150	χ^2 /NDF: 14311740.8/20	Right: 136313.462 $\pm$ 0.125	χ^2 /NDF: 2582945594.6/3
Right Out: 135982.842 $\pm$ 0.183	χ^2 /NDF: 1082431147.9/18	In: 135215.186 $\pm$ 0.113	χ^2 /NDF: 1623987376.6/30
Left In: 134147.019 $\pm$ 0.150	χ^2 /NDF: 13451172.2/19	Out: 135005.553 $\pm$ 0.116	χ^2 /NDF: 1144609403.1/3
		All: 135112.953 $\pm$ 0.081	χ^2 /NDF: 277027447.0/1

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 557.163 $\pm$ 0.106 χ^2 /NDF: 902257.7/20

Right Out: 443.521 $\pm$ 0.129 χ^2 /NDF: 917492.4/18

Left In: 537.480 $\pm$ 0.106 χ^2 /NDF: 1309516.9/19

Left: 547.354 $\pm$ 0.075 χ^2 /NDF: 2228977.8/40

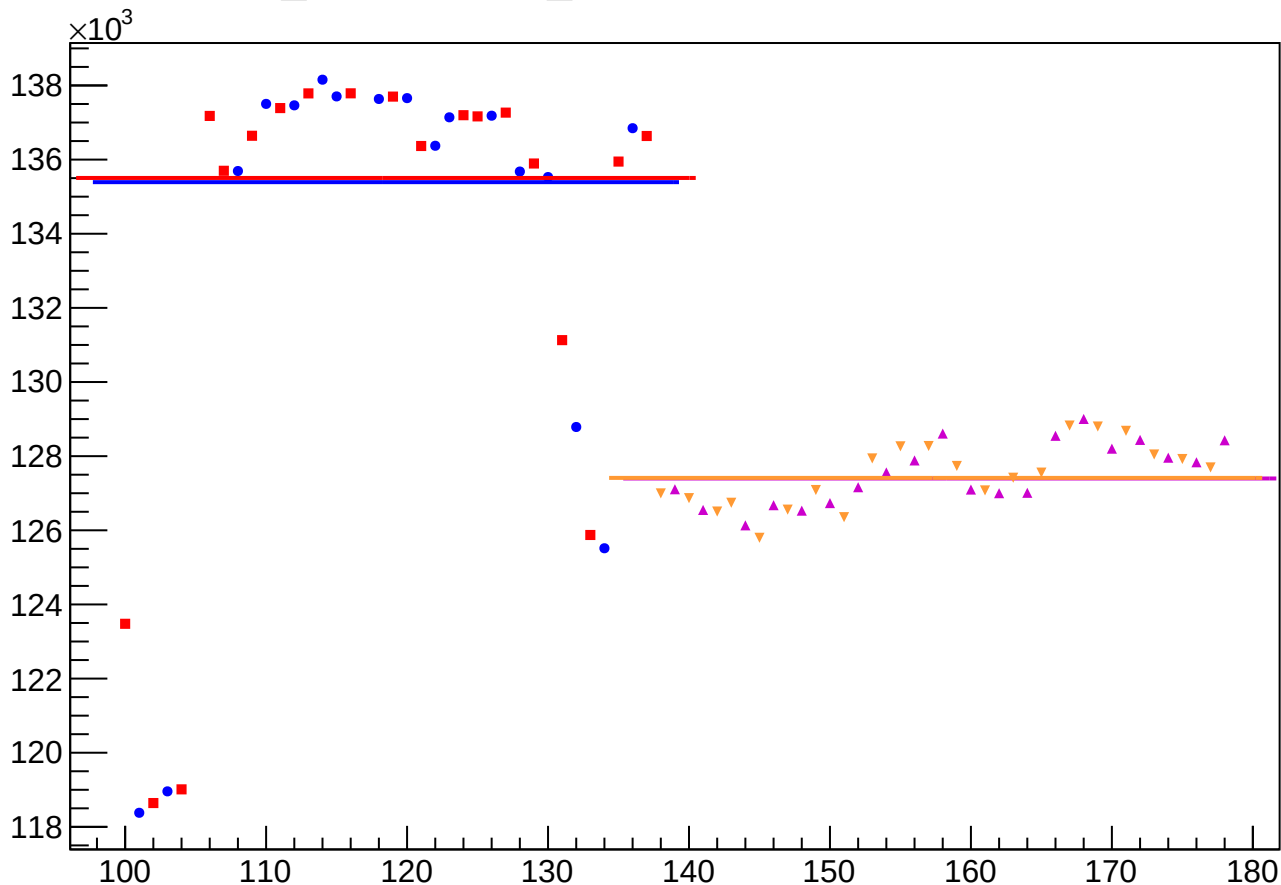
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 481.520 $\pm$ 0.080 χ^2 /NDF: 2770514.4/36

Out: 511.466 $\pm$ 0.082 χ^2 /NDF: 2282477.7/39

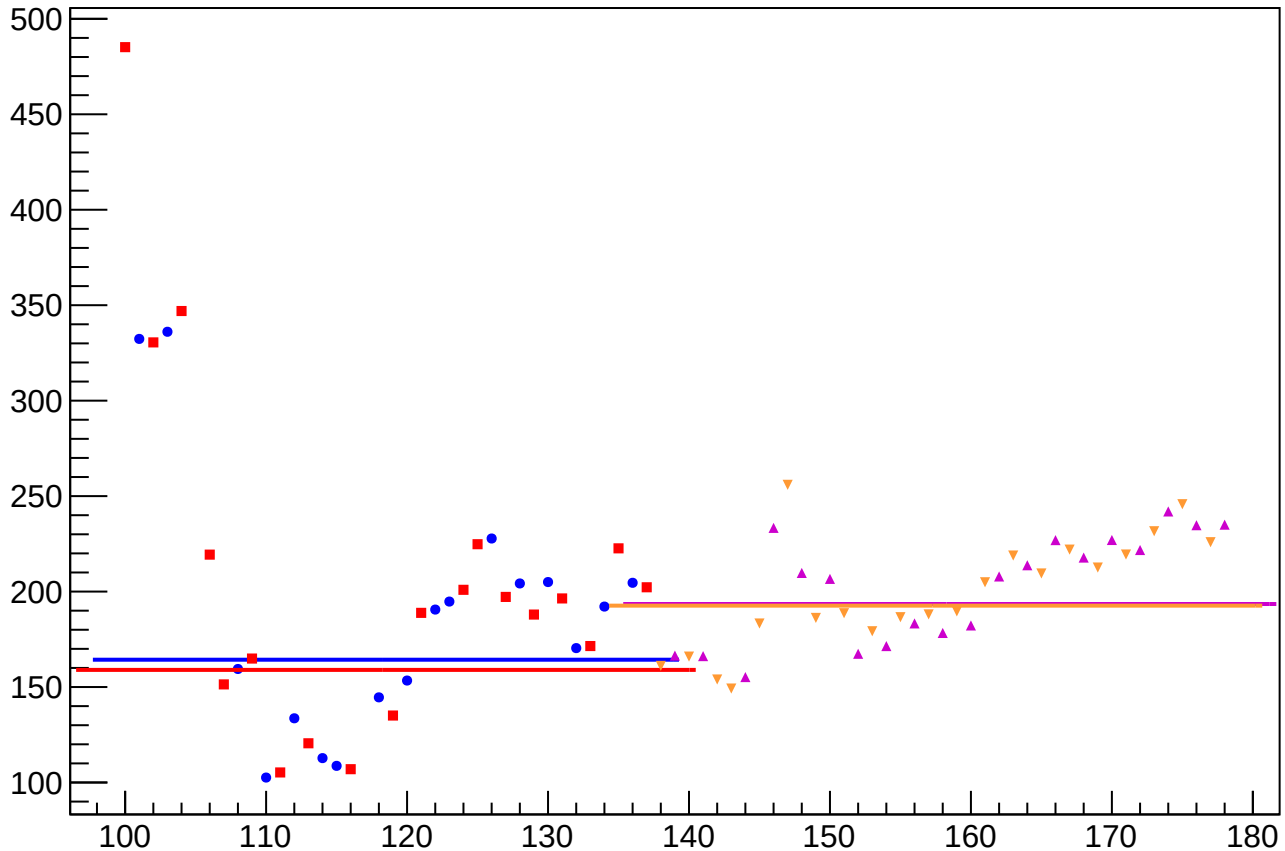
All: 496.124 $\pm$ 0.057 χ^2 /NDF: 5121458.7/76

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458 $\pm$ 0.068	χ^2 /NDF: 4580024611.0/16	Left: 127405.928 $\pm$ 0.035	χ^2 /NDF: 547974055.8/40
Left Out: 127413.710 $\pm$ 0.049	χ^2 /NDF: 279805164.6/20	Right: 135451.454 $\pm$ 0.047	χ^2 /NDF: 9312151817.8/16
Right Out: 135504.836 $\pm$ 0.064	χ^2 /NDF: 4730667469.8/18	In: 130197.071 $\pm$ 0.040	χ^2 /NDF: 13758467335.1/30
Left In: 127397.900 $\pm$ 0.050	χ^2 /NDF: 268118347.2/19	Out: 130406.644 $\pm$ 0.039	χ^2 /NDF: 14959335878.1/16
		All: 130305.106 $\pm$ 0.028	χ^2 /NDF: 287316780.1/16

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311 $\pm$ 0.048 χ^2 /NDF: 1230487.8/16

Left Out: 192.631 $\pm$ 0.035 χ^2 /NDF: 621114.1/20

Right Out: 158.977 $\pm$ 0.046 χ^2 /NDF: 1384059.2/18

Left In: 193.492 $\pm$ 0.035 χ^2 /NDF: 606470.5/19

Left: 193.055 $\pm$ 0.025 χ^2 /NDF: 1227884.7/40

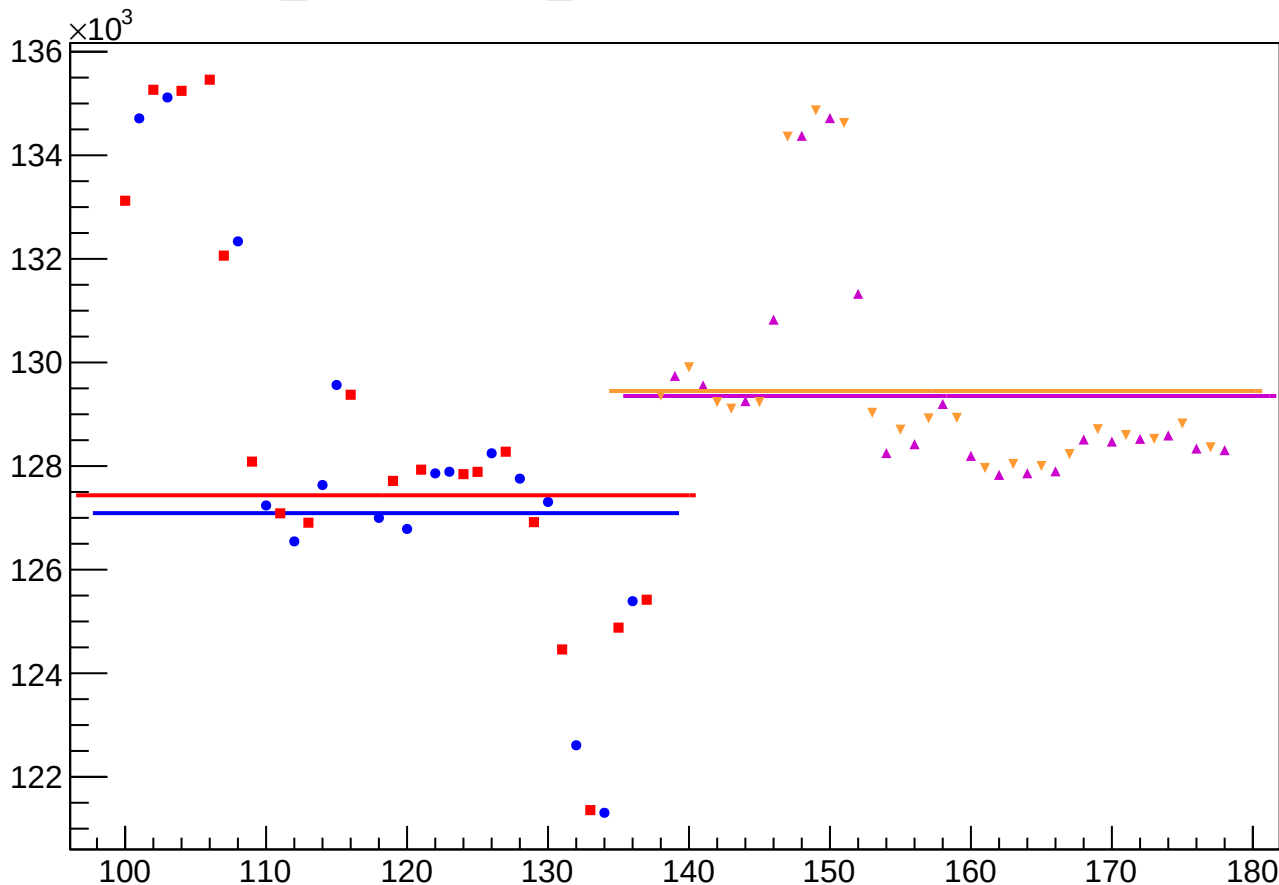
Right: 161.489 $\pm$ 0.033 χ^2 /NDF: 2621008.2/35

In: 183.274 $\pm$ 0.029 χ^2 /NDF: 2074443.5/36

Out: 180.182 $\pm$ 0.028 χ^2 /NDF: 2349393.4/39

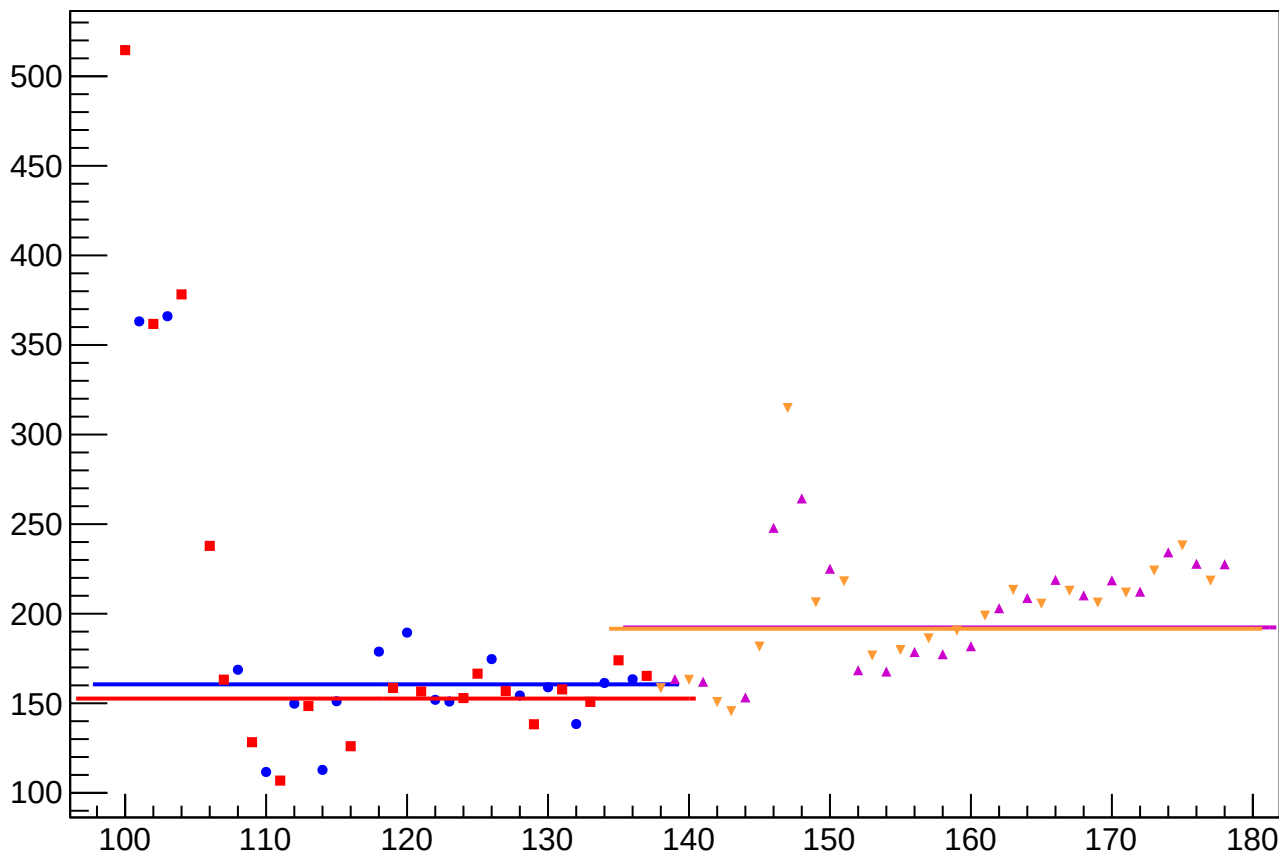
All: 181.680 $\pm$ 0.020 χ^2 /NDF: 4429874.7/76

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500 $\pm$ 0.066	χ^2 /NDF: 1717208780.6/16	Left: 129402.055 $\pm$ 0.035	χ^2 /NDF: 2564497508.7/4
Left Out: 129449.541 $\pm$ 0.049	χ^2 /NDF: 1394862701.8/20	Right: 127276.609 $\pm$ 0.045	χ^2 /NDF: 3810794624.3/16
Right Out: 127436.101 $\pm$ 0.062	χ^2 /NDF: 2079075713.9/18	In: 128534.529 $\pm$ 0.040	χ^2 /NDF: 3627388915.3/30
Left In: 129353.288 $\pm$ 0.050	χ^2 /NDF: 1167752965.3/19	Out: 128662.896 $\pm$ 0.038	χ^2 /NDF: 4126059334.6/30
		All: 128601.043 $\pm$ 0.028	χ^2 /NDF: 775881350.0/100

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564+/-0.047 χ^2/NDF : 942747.0/16

Left Out: 191.611+/-0.035 χ^2/NDF : 767255.3/20

Right Out: 152.629+/-0.044 χ^2/NDF : 1086504.4/18

Left In: 192.347+/-0.035 χ^2/NDF : 728120.3/19

Left: 191.974+/-0.025 χ^2/NDF : 1495595.5/40

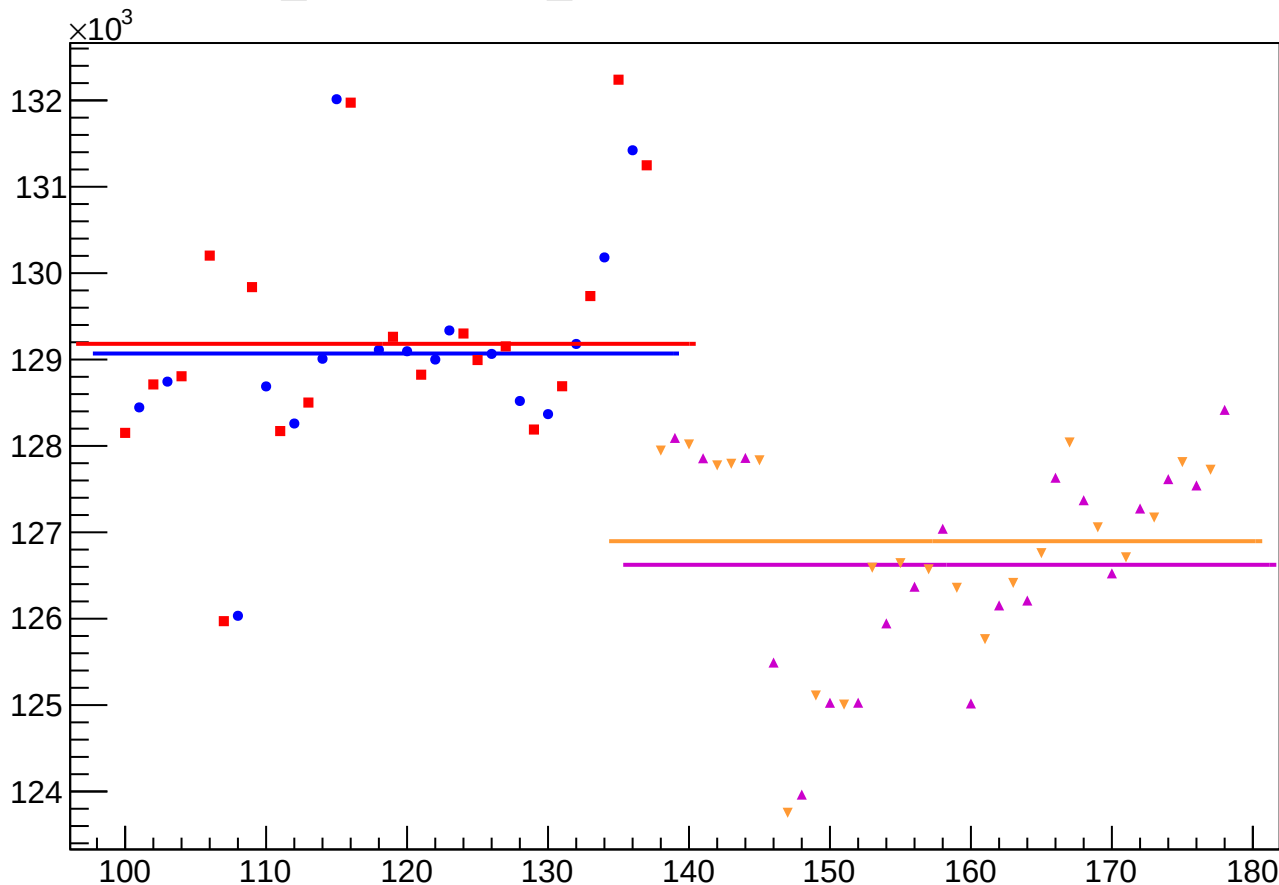
Right: 156.301+/-0.032 χ^2/NDF : 2044640.1/35

In: 180.841+/-0.028 χ^2/NDF : 1964063.0/36

Out: 176.381+/-0.027 χ^2/NDF : 2342656.3/39

All: 178.530+/-0.020 χ^2/NDF : 4319676.5/76

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060

χ^2 /NDF: 476692316.5/16

Left Out: 126897.244 $\pm$ 0.048

χ^2 /NDF: 488779481.2/20

Right Out: 129181.887 $\pm$ 0.056

χ^2 /NDF: 625597399.6/18

Left In: 126623.852 $\pm$ 0.049

χ^2 /NDF: 632327921.9/19

Left: 126762.717 $\pm$ 0.034

χ^2 /NDF: 1137150726.7/4

Right: 129129.710 $\pm$ 0.041

χ^2 /NDF: 1104150743.5/3

In: 127590.600 $\pm$ 0.038

χ^2 /NDF: 2108217426.6/30

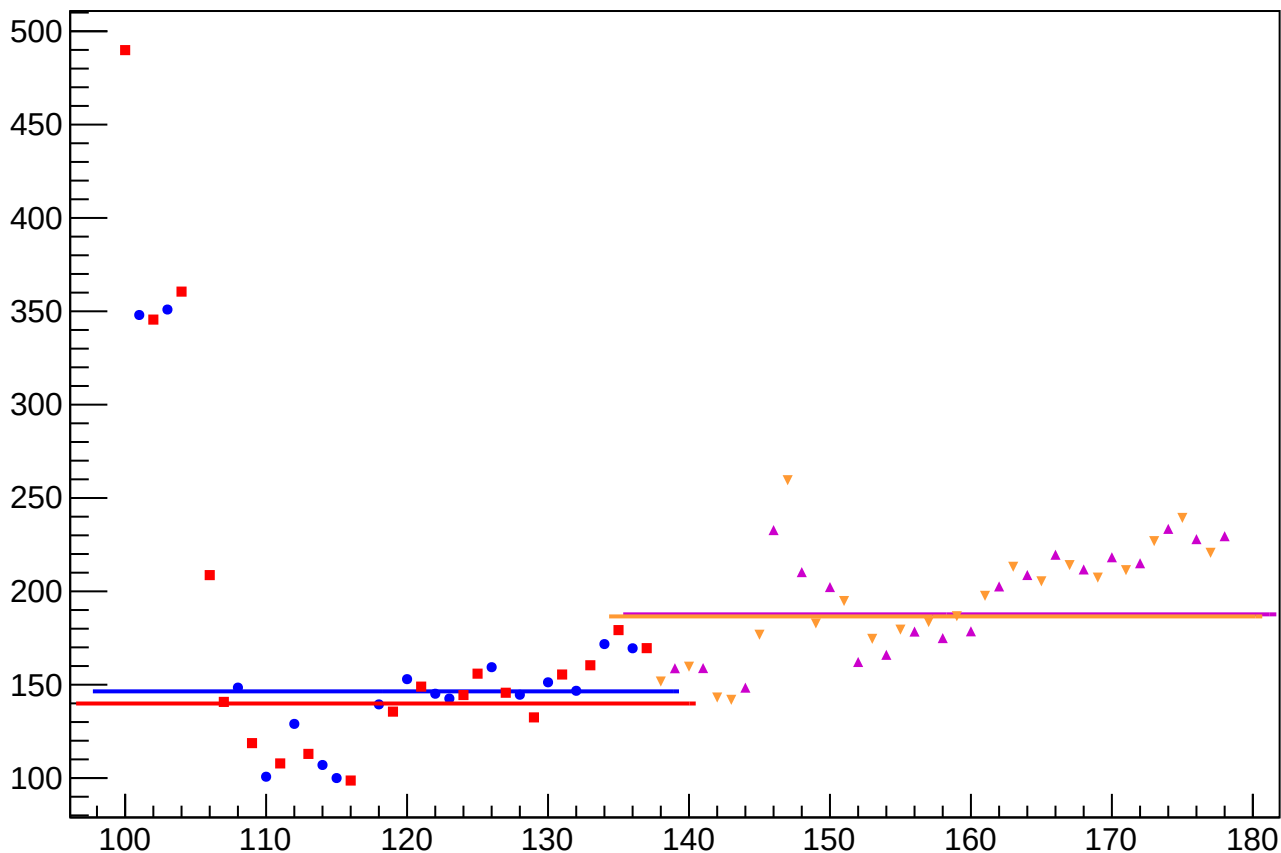
Out: 127860.239 $\pm$ 0.036

χ^2 /NDF: 2074089383.7/3

All: 127730.547 $\pm$ 0.026

χ^2 /NDF: 420867596.7/1

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 ± 0.043 $\chi^2/\text{NDF}: 1064791.0/16$

Left Out: 186.573 ± 0.034 $\chi^2/\text{NDF}: 729746.1/20$

Right Out: 139.929 ± 0.040 $\chi^2/\text{NDF}: 1203570.9/18$

Left In: 187.680 ± 0.034 $\chi^2/\text{NDF}: 660671.1/19$

Left: 187.118 ± 0.024 $\chi^2/\text{NDF}: 1390942.8/40$

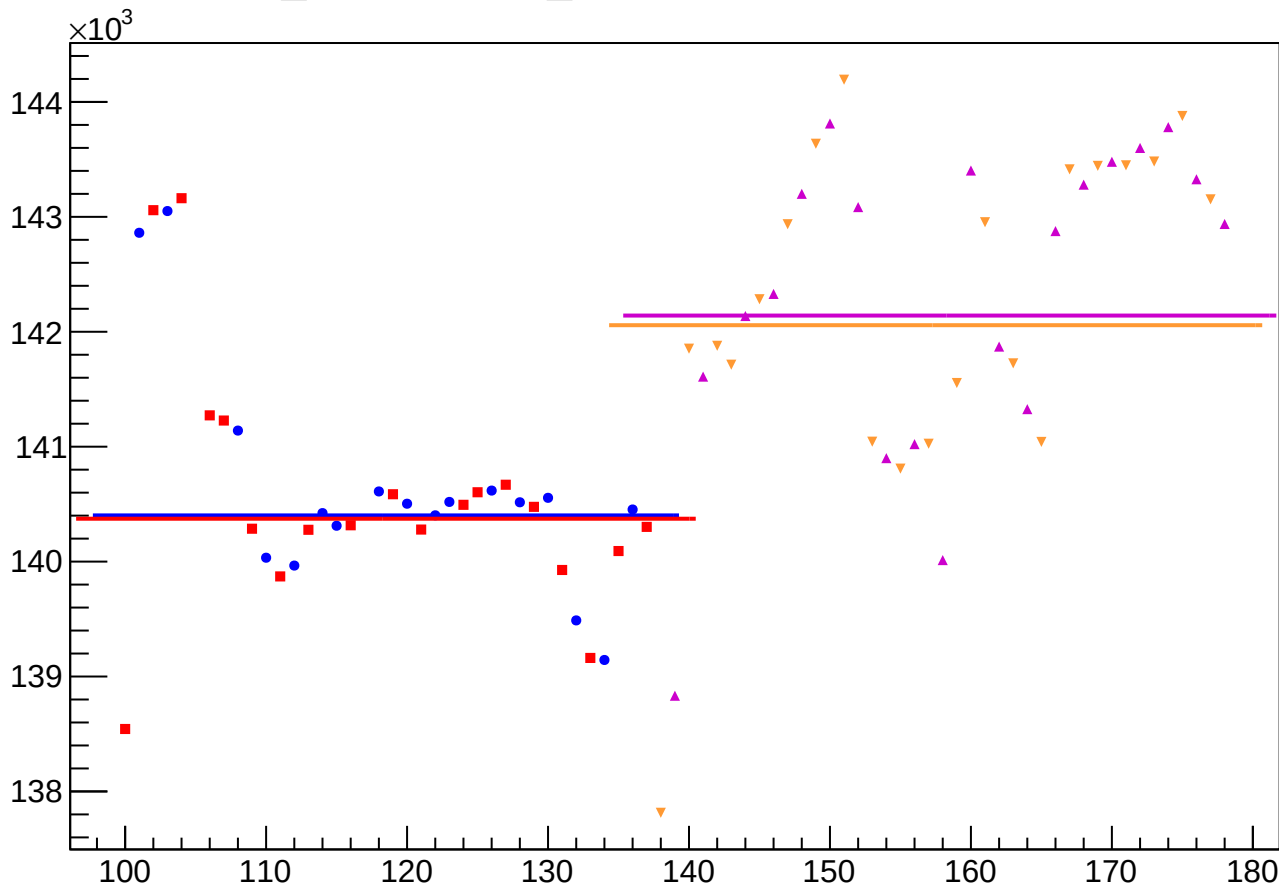
Right: 142.955 ± 0.029 $\chi^2/\text{NDF}: 2280881.6/35$

In: 171.378 ± 0.027 $\chi^2/\text{NDF}: 2293695.0/36$

Out: 166.912 ± 0.026 $\chi^2/\text{NDF}: 2733398.4/39$

All: 169.060 ± 0.019 $\chi^2/\text{NDF}: 5041559.2/76$

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 142098.575 $\pm$ 0.039

χ^2 /NDF: 1418928602.4/4

Right: 140386.544 $\pm$ 0.044

χ^2 /NDF: 188034057.1/3

Left Out: 142057.166 $\pm$ 0.055

χ^2 /NDF: 789368381.0/20

Right Out: 140373.163 $\pm$ 0.060

χ^2 /NDF: 99854533.3/18

Left In: 142141.034 $\pm$ 0.056

χ^2 /NDF: 628416016.0/19

In: 141394.814 $\pm$ 0.042

χ^2 /NDF: 1133455117.0/30

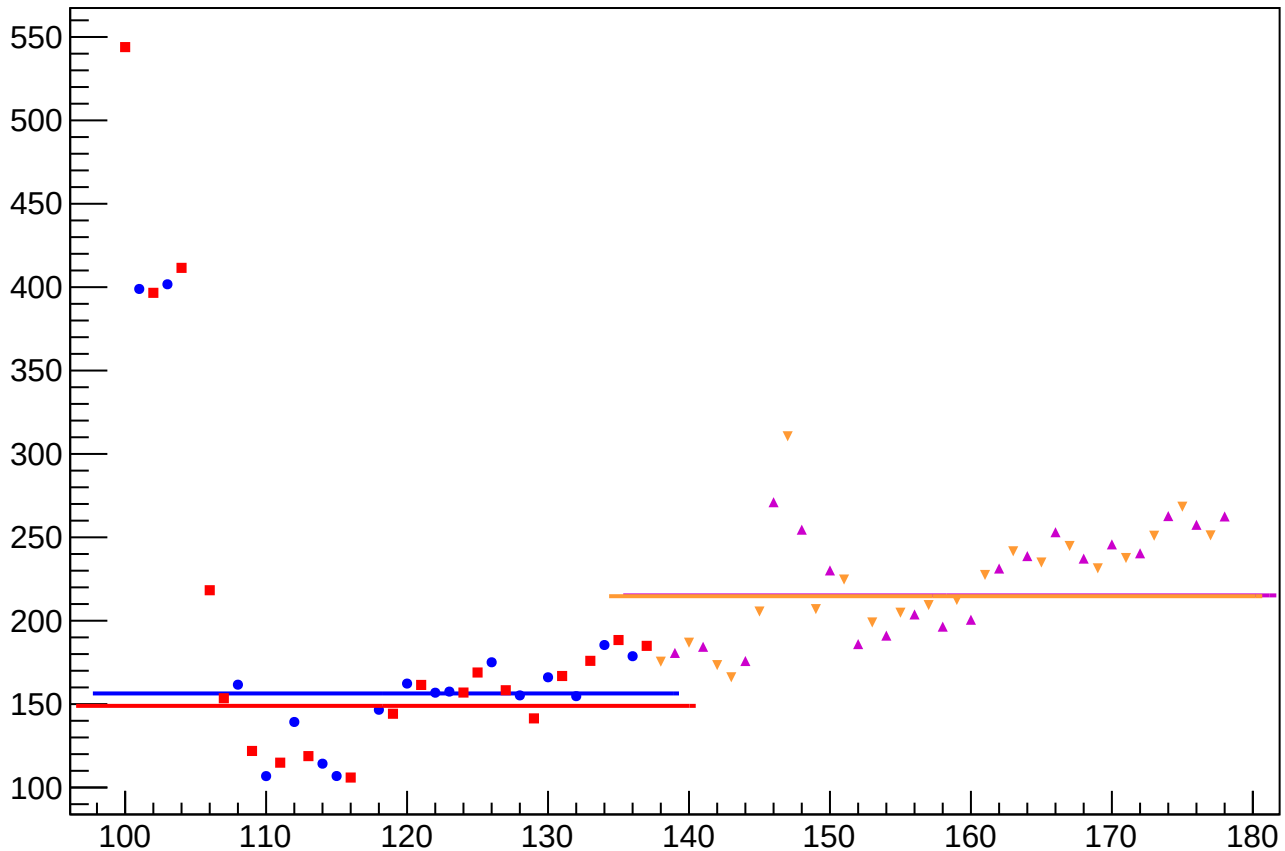
Out: 141284.763 $\pm$ 0.041

χ^2 /NDF: 1317777188.1/3

All: 141337.636 $\pm$ 0.029

χ^2 /NDF: 245477385

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 214.700 $\pm$ 0.039 χ^2 /NDF: 638911.0/20

Right Out: 148.949 $\pm$ 0.042 χ^2 /NDF: 1307651.5/18

Left In: 215.186 $\pm$ 0.039 χ^2 /NDF: 619543.6/19

Left: 214.940 $\pm$ 0.028 χ^2 /NDF: 1258531.6/40

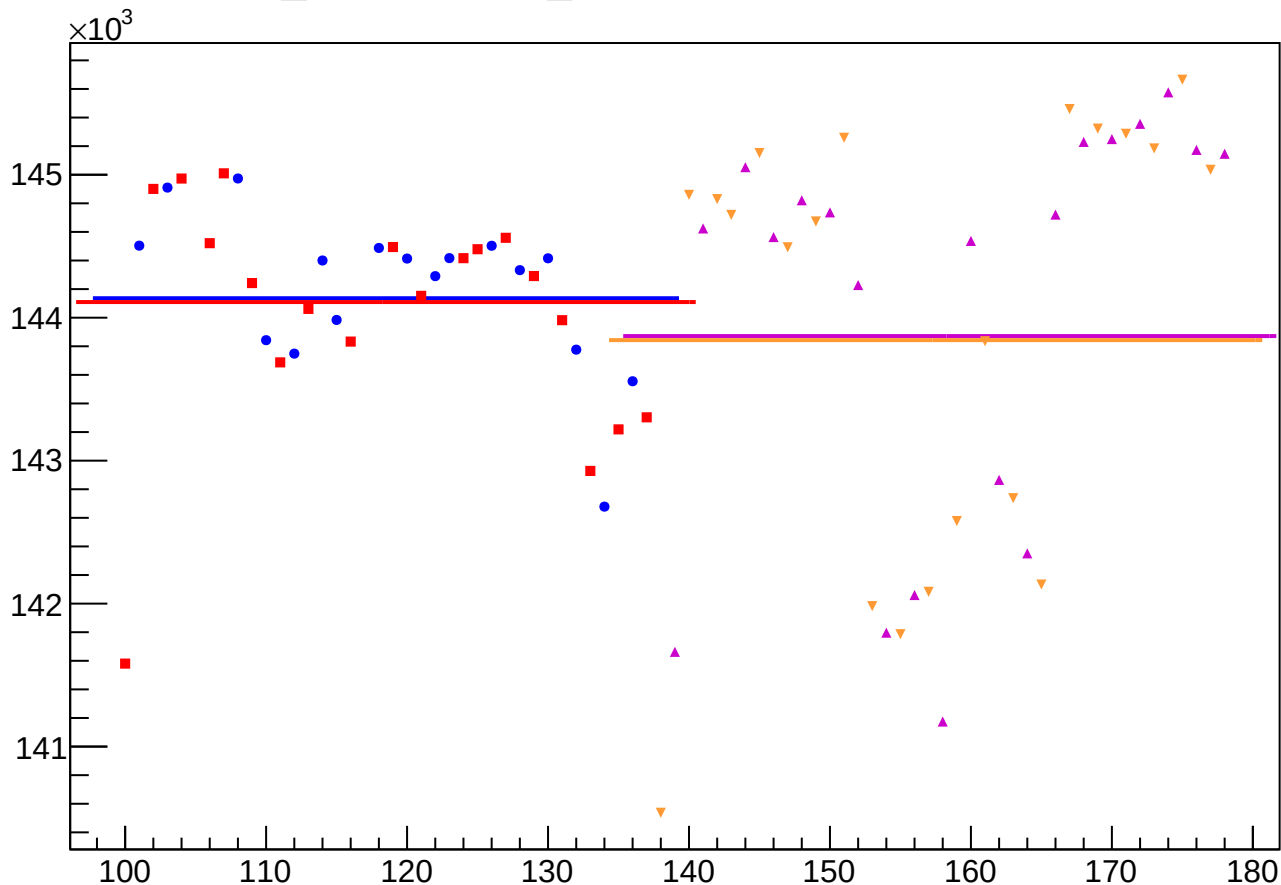
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 189.958 $\pm$ 0.030 χ^2 /NDF: 2727515.4/36

Out: 184.542 $\pm$ 0.029 χ^2 /NDF: 3253180.0/39

All: 187.144 $\pm$ 0.021 χ^2 /NDF: 5997852.3/76

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left: 143857.043 $\pm$ 0.039

χ^2 /NDF: 1520836511.9/4

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

Left Out: 143843.105 $\pm$ 0.055

χ^2 /NDF: 824468038.1/20

In: 143980.177 $\pm$ 0.043

χ^2 /NDF: 752565649.9/36

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

Out: 143960.410 $\pm$ 0.041

χ^2 /NDF: 900094058.1/39

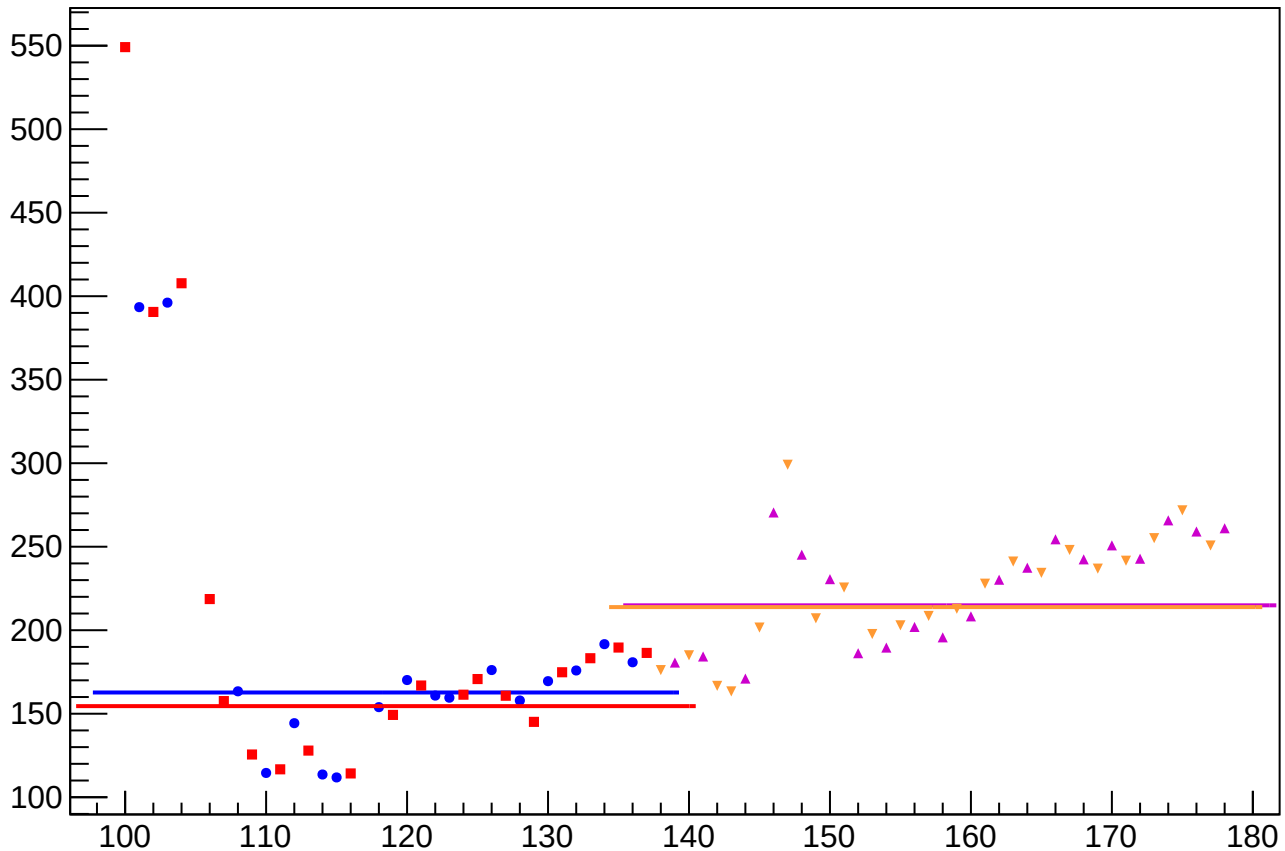
Left In: 143871.424 $\pm$ 0.056

χ^2 /NDF: 696237488.1/19

All: 143969.884 $\pm$ 0.030

χ^2 /NDF: 165277078

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2 /NDF: 1066482.0/16

Left Out: 213.843 $\pm$ 0.039 χ^2 /NDF:690172.8/20

Right Out: 154.547 $\pm$ 0.044 χ^2 /NDF: 1217495.9/18

Left In: 214.904 $\pm$ 0.039 χ^2 /NDF:654147.6/19

Left: 214.365 $\pm$ 0.028 χ^2 /NDF: 1344687.9/40

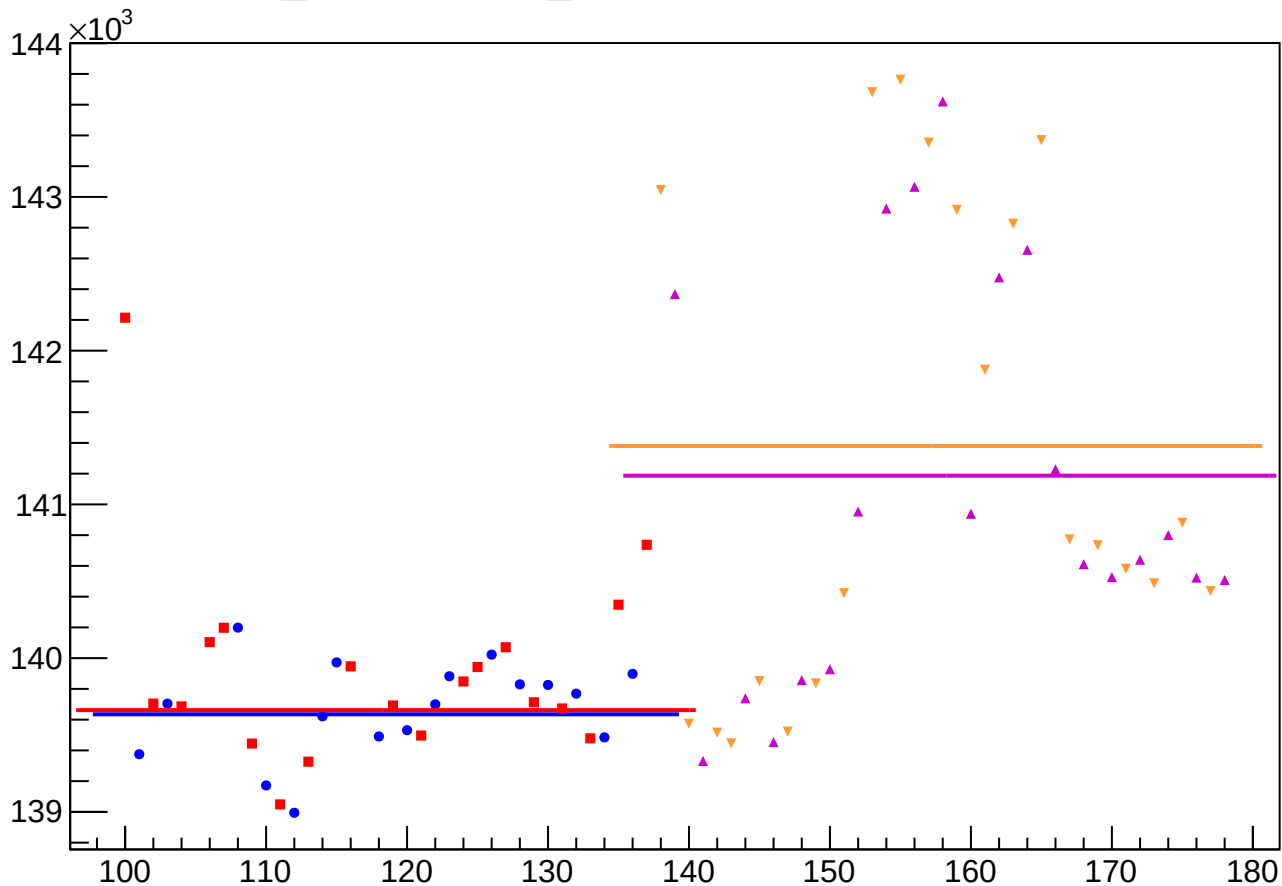
Right: 158.320 $\pm$ 0.032 χ^2 /NDF: 2300078.3/35

In: 193.461 $\pm$ 0.030 χ^2 /NDF:2440509.0/36

Out: 187.724 $\pm$ 0.029 χ^2 /NDF:2935605.8/39

All: 190.474 $\pm$ 0.021 χ^2 /NDF: 5394823.8/76

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068 χ^2/NDF : 24844912.0/16

Left Out: 141379.807+/-0.057 χ^2/NDF : 757160353.2/20

Right Out: 139661.970+/-0.063 χ^2/NDF : 38372985.0/18

Left In: 141186.975+/-0.057 χ^2/NDF : 543972073.3/19

Left: 141283.921+/-0.040 χ^2/NDF : 1306877249.8/4

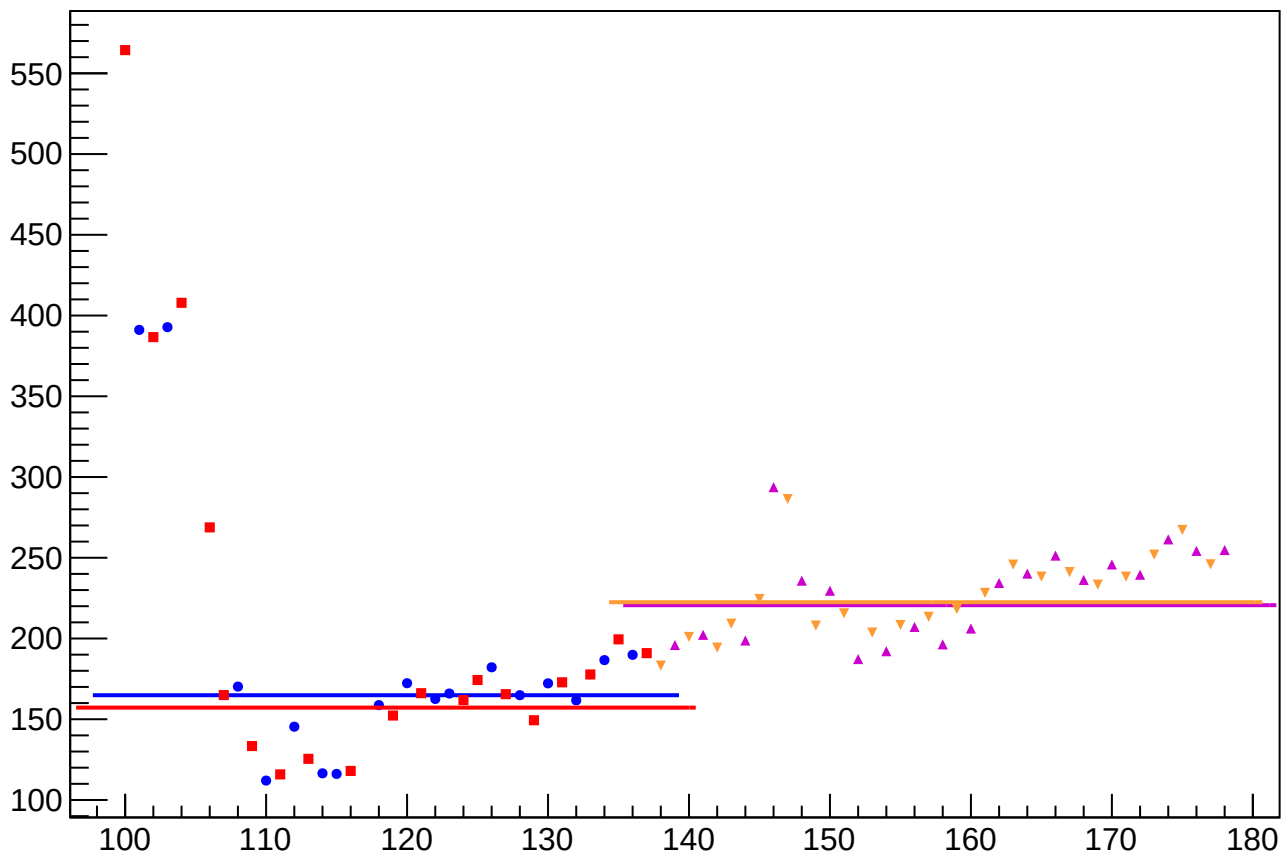
Right: 139649.322+/-0.046 χ^2/NDF : 63304699.0/35

In: 140543.312+/-0.044 χ^2/NDF : 875855070.7/36

Out: 140611.064+/-0.042 χ^2/NDF : 1205840127.9/3

All: 140578.353+/-0.030 χ^2/NDF : 20829415

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 $\pm$ 0.048 χ^2/NDF : 1066270.8/16

Left Out: 222.478 $\pm$ 0.040 χ^2/NDF : 335678.3/20

Right Out: 157.207 $\pm$ 0.045 χ^2/NDF : 1245030.9/18

Left In: 220.627 $\pm$ 0.040 χ^2/NDF : 438038.7/19

Left: 221.558 $\pm$ 0.028 χ^2/NDF : 774775.5/40

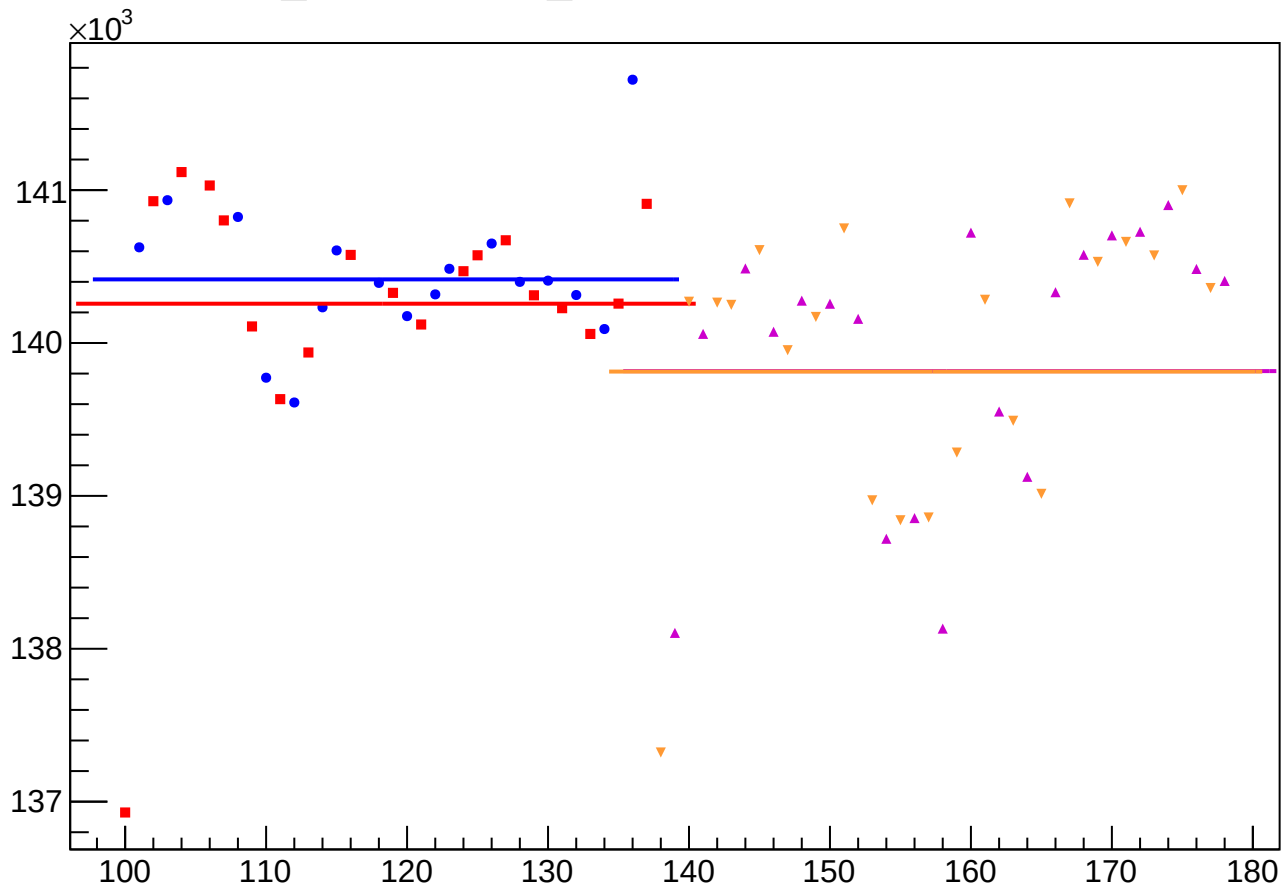
Right: 160.768 $\pm$ 0.033 χ^2/NDF : 2325060.5/35

In: 197.513 $\pm$ 0.031 χ^2/NDF : 2296198.5/36

Out: 193.269 $\pm$ 0.030 χ^2/NDF : 2765421.2/39

All: 195.318 $\pm$ 0.021 χ^2/NDF : 5071400.8/76

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 ± 0.068 $\chi^2/\text{NDF}: 69975821.3/16$

Left Out: 139813.141 ± 0.054 $\chi^2/\text{NDF}: 322226120.0/20$

Right Out: 140256.992 ± 0.063 $\chi^2/\text{NDF}: 38063371.4/18$

Left In: 139816.137 ± 0.055 $\chi^2/\text{NDF}: 274122897.1/19$

Left: 139814.615 ± 0.038 $\chi^2/\text{NDF}: 596350541.4/40$

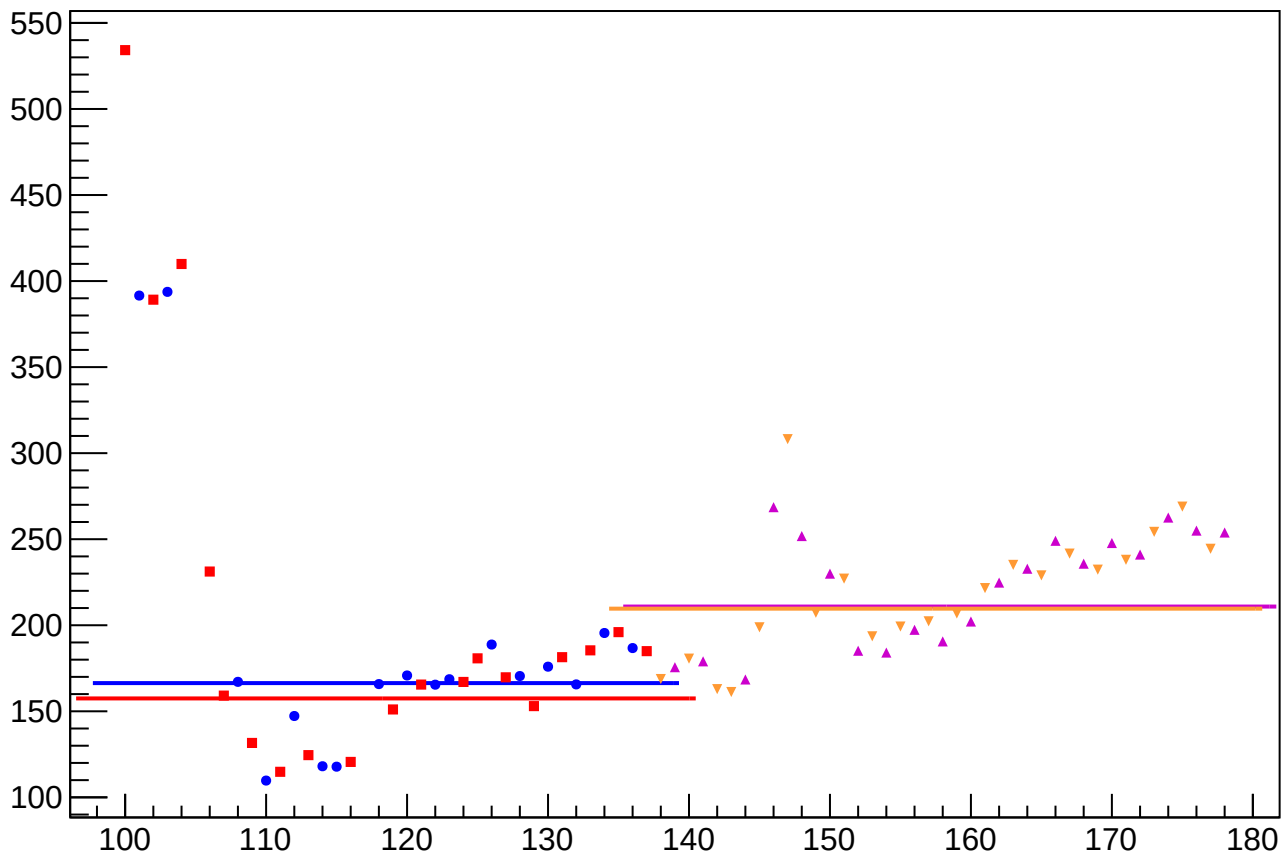
Right: 140330.188 ± 0.046 $\chi^2/\text{NDF}: 110959487.0/3$

In: 140050.236 ± 0.043 $\chi^2/\text{NDF}: 391016697.4/36$

Out: 139999.931 ± 0.041 $\chi^2/\text{NDF}: 388905975.4/39$

All: 140024.025 ± 0.030 $\chi^2/\text{NDF}: 78064504.1/100$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2/NDF : 1080964.8/16

Left Out: 209.643 $\pm$ 0.038 χ^2/NDF : 749301.2/20

Right Out: 157.475 $\pm$ 0.045 χ^2/NDF : 1229886.8/18

Left In: 210.868 $\pm$ 0.039 χ^2/NDF : 695918.5/19

Left: 210.245 $\pm$ 0.027 χ^2/NDF : 1445728.9/40

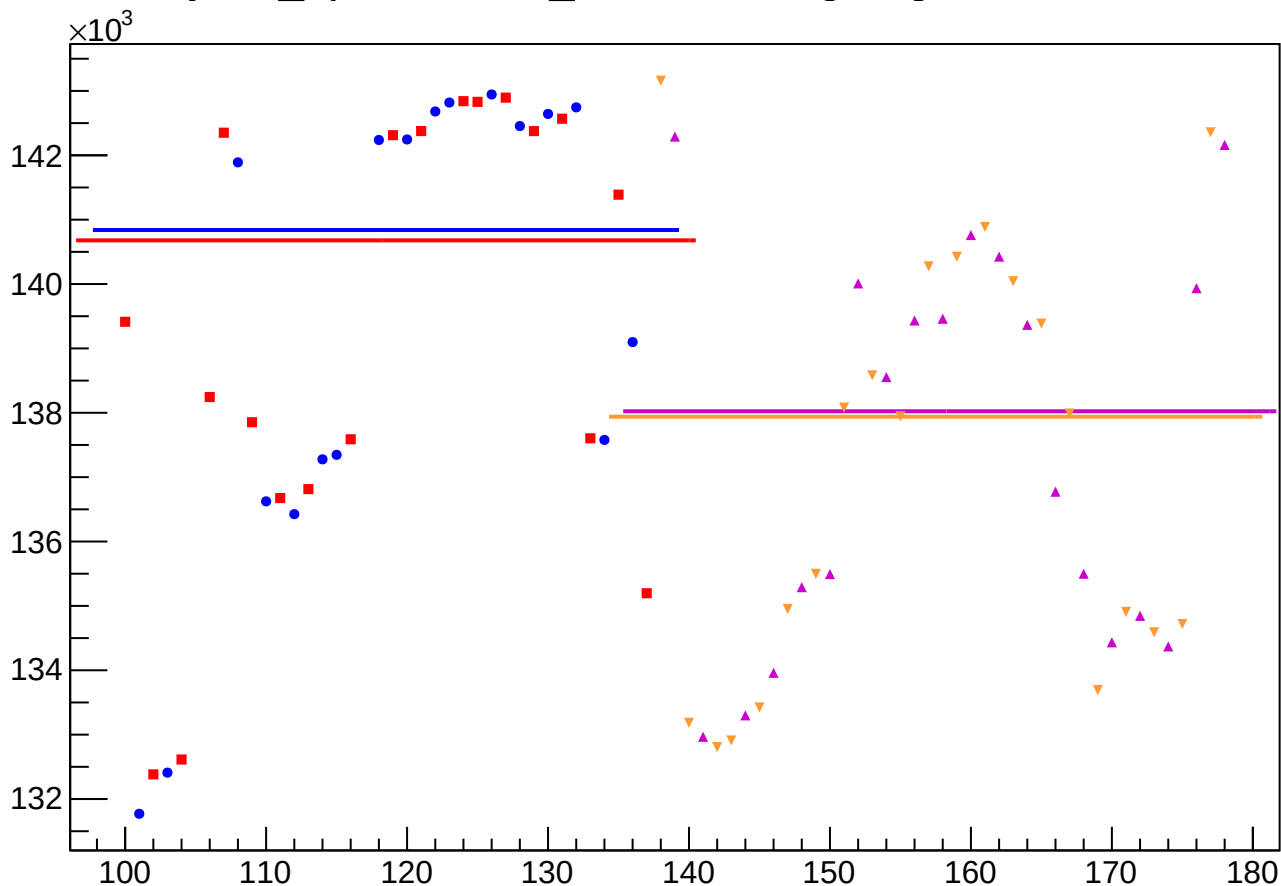
Right: 161.576 $\pm$ 0.033 χ^2/NDF : 2329186.5/35

In: 193.511 $\pm$ 0.030 χ^2/NDF : 2292708.5/36

Out: 187.689 $\pm$ 0.029 χ^2/NDF : 2769831.4/39

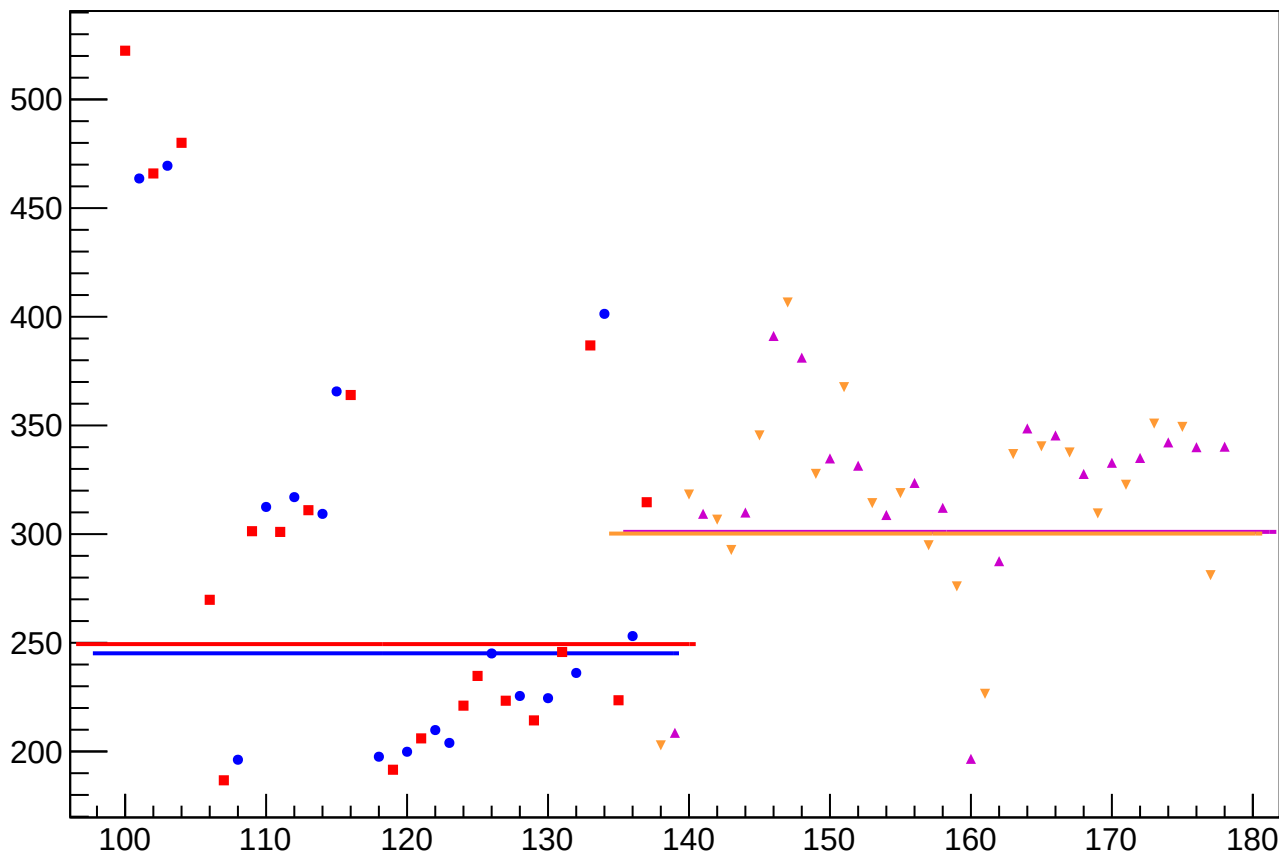
All: 190.477 $\pm$ 0.021 χ^2/NDF : 5081892.6/76

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 137980.918 $\pm$ 0.055	χ^2/NDF : 3517036709.3/4
Left Out: 137939.521 $\pm$ 0.078	χ^2/NDF : 1961162458.7/20	Right: 140758.088 $\pm$ 0.070	χ^2/NDF : 1664679717.2/1
Right Out: 140678.513 $\pm$ 0.099	χ^2/NDF : 840695274.4/18	In: 139105.488 $\pm$ 0.062	χ^2/NDF : 2865951816.6/30
Left In: 138023.752 $\pm$ 0.079	χ^2/NDF : 1555296158.6/19	Out: 138981.686 $\pm$ 0.061	χ^2/NDF : 3275092574.6/3
		All: 139042.718 $\pm$ 0.044	χ^2/NDF : 61430664

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159+/-0.071 χ^2/NDF : 869491.6/16

Left Out: 300.250+/-0.055 χ^2/NDF : 843398.2/20

Right Out: 249.397+/-0.070 χ^2/NDF : 1009731.2/18

Left In: 301.030+/-0.056 χ^2/NDF : 1035346.6/19

Left: 300.634+/-0.039 χ^2/NDF : 1878843.9/40

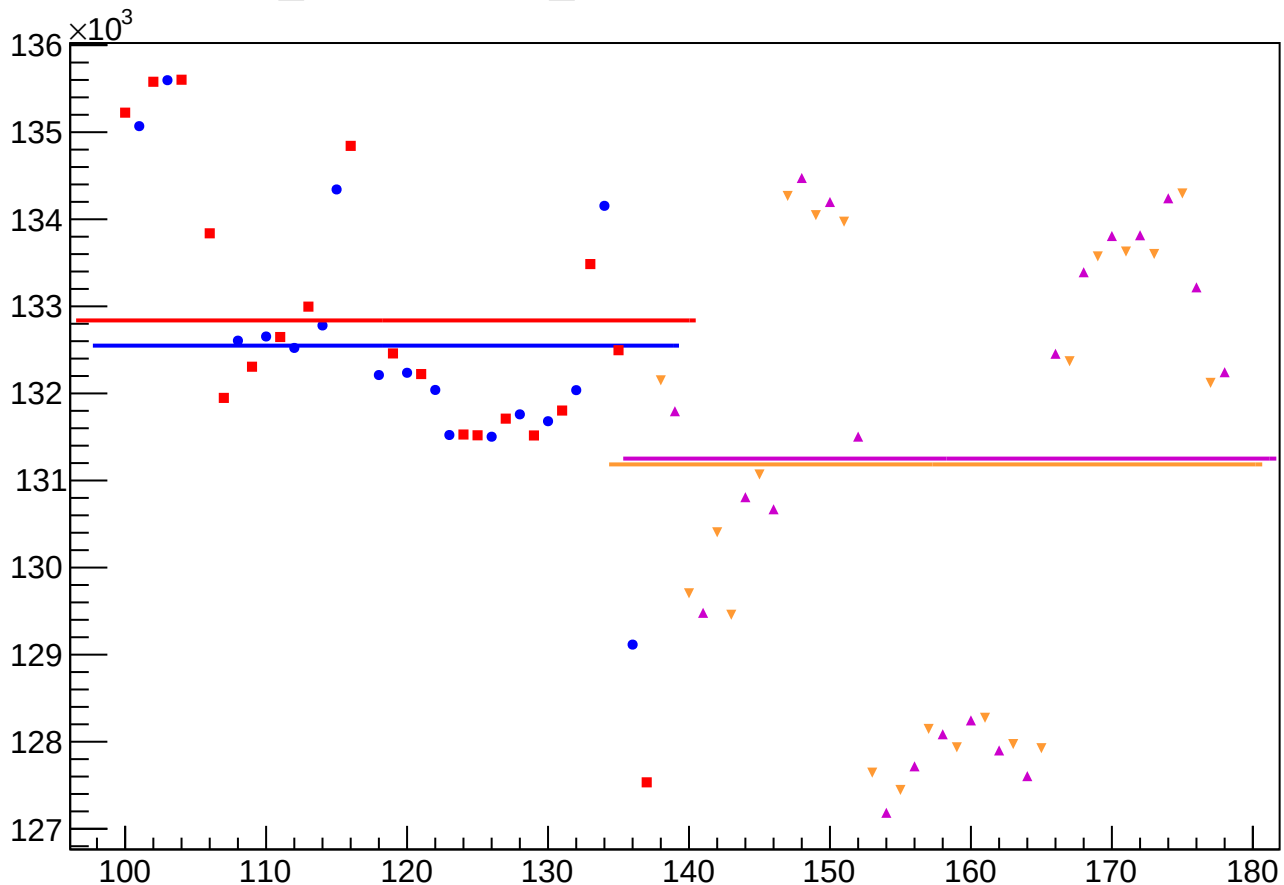
Right: 247.297+/-0.050 χ^2/NDF : 1881034.9/35

In: 279.563+/-0.044 χ^2/NDF : 2289191.5/36

Out: 280.901+/-0.043 χ^2/NDF : 2179391.4/39

All: 280.241+/-0.031 χ^2/NDF : 4469055.1/76

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119 χ^2 /NDF: 161115079.9/16

Left Out: 131184.816 $\pm$ 0.067 χ^2 /NDF: 1158699718.1/20

Right Out: 132838.294 $\pm$ 0.107 χ^2 /NDF: 149611447.6/18

Left In: 131251.505 $\pm$ 0.071 χ^2 /NDF: 1050403140.8/19

Left: 131216.542 $\pm$ 0.049 χ^2 /NDF: 2209571828.4/4

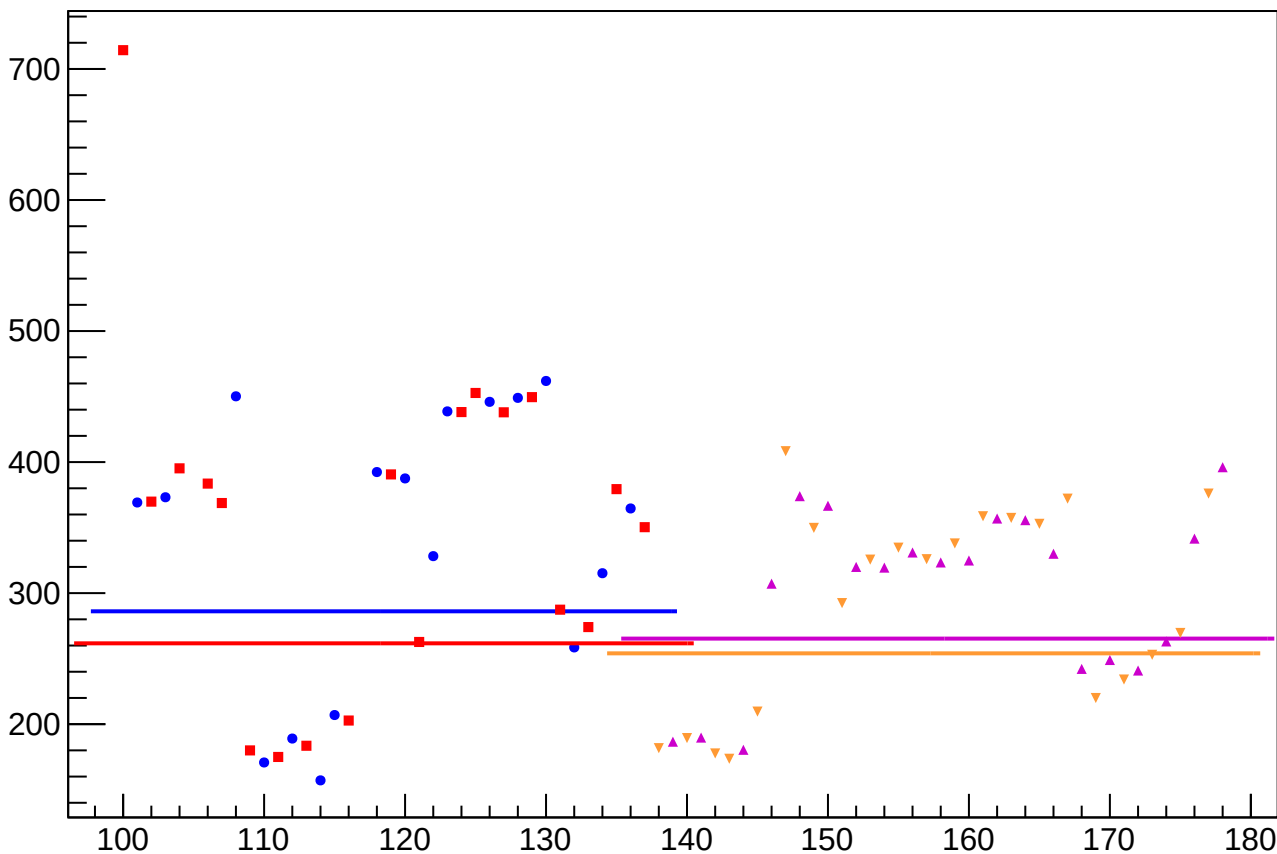
Right: 132709.226 $\pm$ 0.080 χ^2 /NDF: 313982981.1/3

In: 131587.094 $\pm$ 0.061 χ^2 /NDF: 1299087184.8/36

Out: 131651.569 $\pm$ 0.057 χ^2 /NDF: 1479378611.2/3

All: 131621.417 $\pm$ 0.042 χ^2 /NDF: 277906618

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 $\pm$ 0.084 χ^2 /NDF: 1525266.4/16

Left Out: 254.039 $\pm$ 0.047 χ^2 /NDF: 2313941.0/20

Right Out: 261.686 $\pm$ 0.076 χ^2 /NDF: 1623174.1/18

Left In: 265.291 $\pm$ 0.050 χ^2 /NDF: 1911918.2/19

Left: 259.392 $\pm$ 0.034 χ^2 /NDF: 4252556.4/40

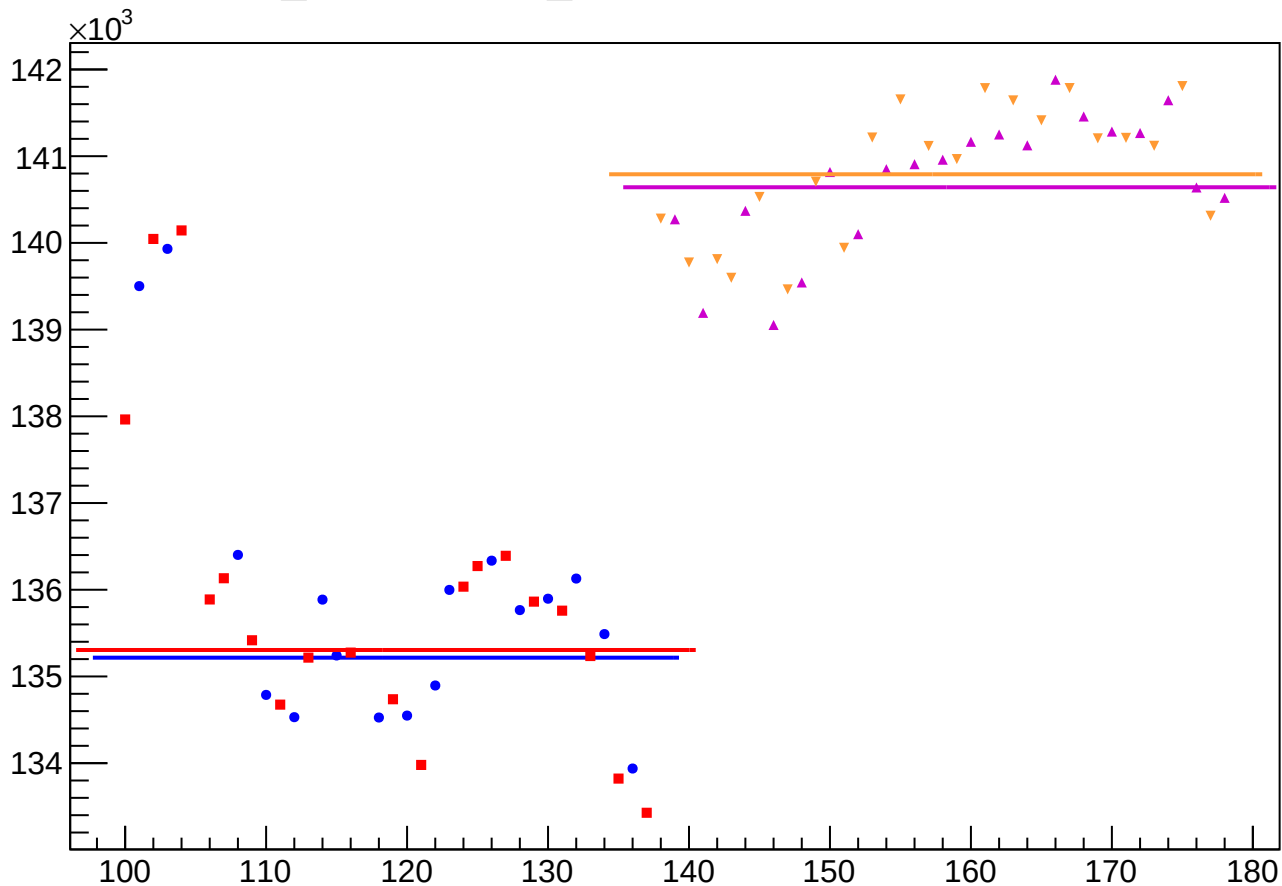
Right: 272.584 $\pm$ 0.056 χ^2 /NDF: 3194872.3/35

In: 270.679 $\pm$ 0.043 χ^2 /NDF: 3482338.1/36

Out: 256.198 $\pm$ 0.040 χ^2 /NDF: 3944432.8/39

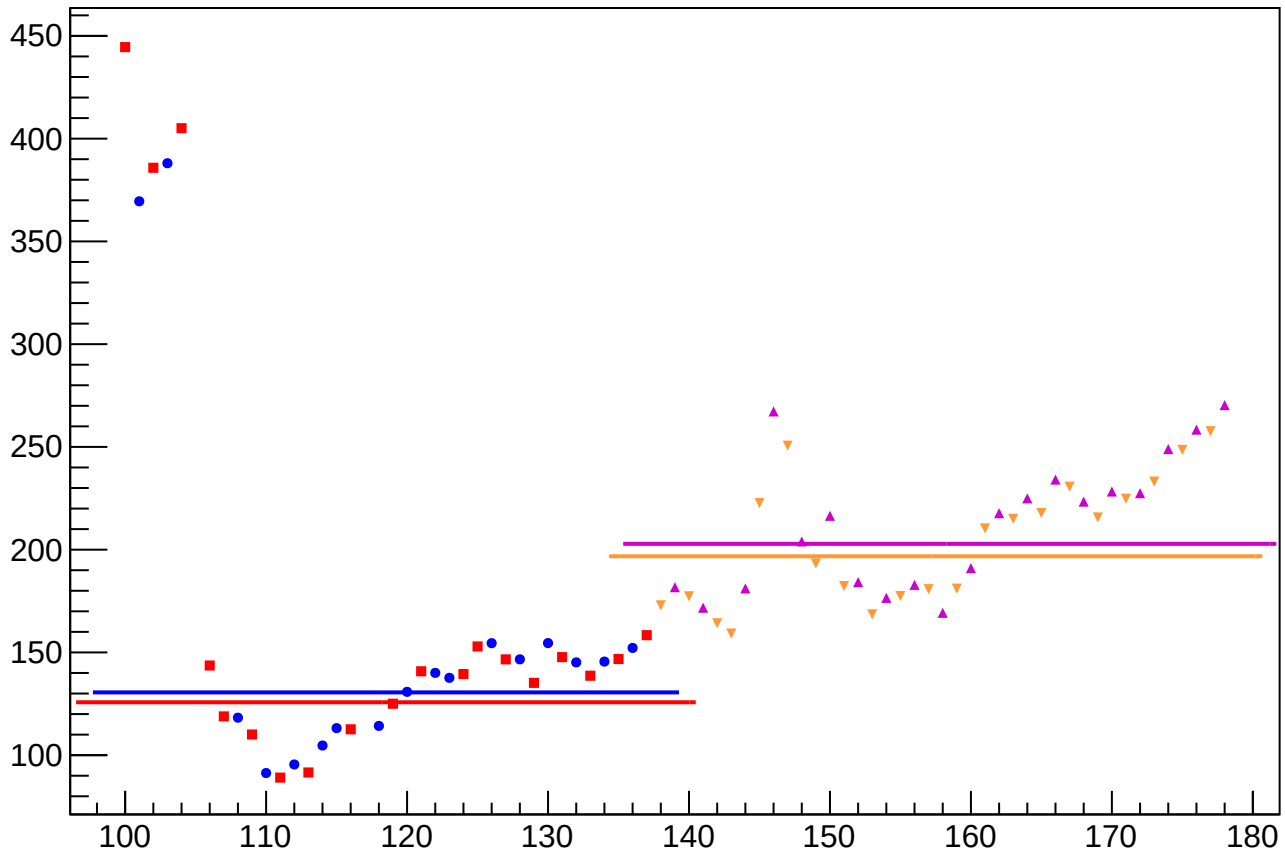
All: 262.970 $\pm$ 0.029 χ^2 /NDF: 7487344.5/76

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054	χ^2 /NDF: 371347707.3/16	Left: 140719.667 $\pm$ 0.036	χ^2 /NDF: 414834828.8/40
Left Out: 140791.457 $\pm$ 0.050	χ^2 /NDF: 219746168.5/20	Right: 135263.557 $\pm$ 0.037	χ^2 /NDF: 730392205.8/30
Right Out: 135305.135 $\pm$ 0.051	χ^2 /NDF: 357636841.6/18	In: 138016.282 $\pm$ 0.038	χ^2 /NDF: 5702896188.2/30
Left In: 140641.660 $\pm$ 0.053	χ^2 /NDF: 190871140.4/19	Out: 138083.144 $\pm$ 0.036	χ^2 /NDF: 6404700364.3/30
		All: 138051.417 $\pm$ 0.026	χ^2 /NDF: 121092395.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 196.788 $\pm$ 0.036 χ^2 /NDF: 628818.7/20

Right Out: 125.746 $\pm$ 0.036 χ^2 /NDF: 1440002.5/18

Left In: 202.843 $\pm$ 0.037 χ^2 /NDF: 634868.1/19

Left: 199.690 $\pm$ 0.026 χ^2 /NDF: 1277471.4/40

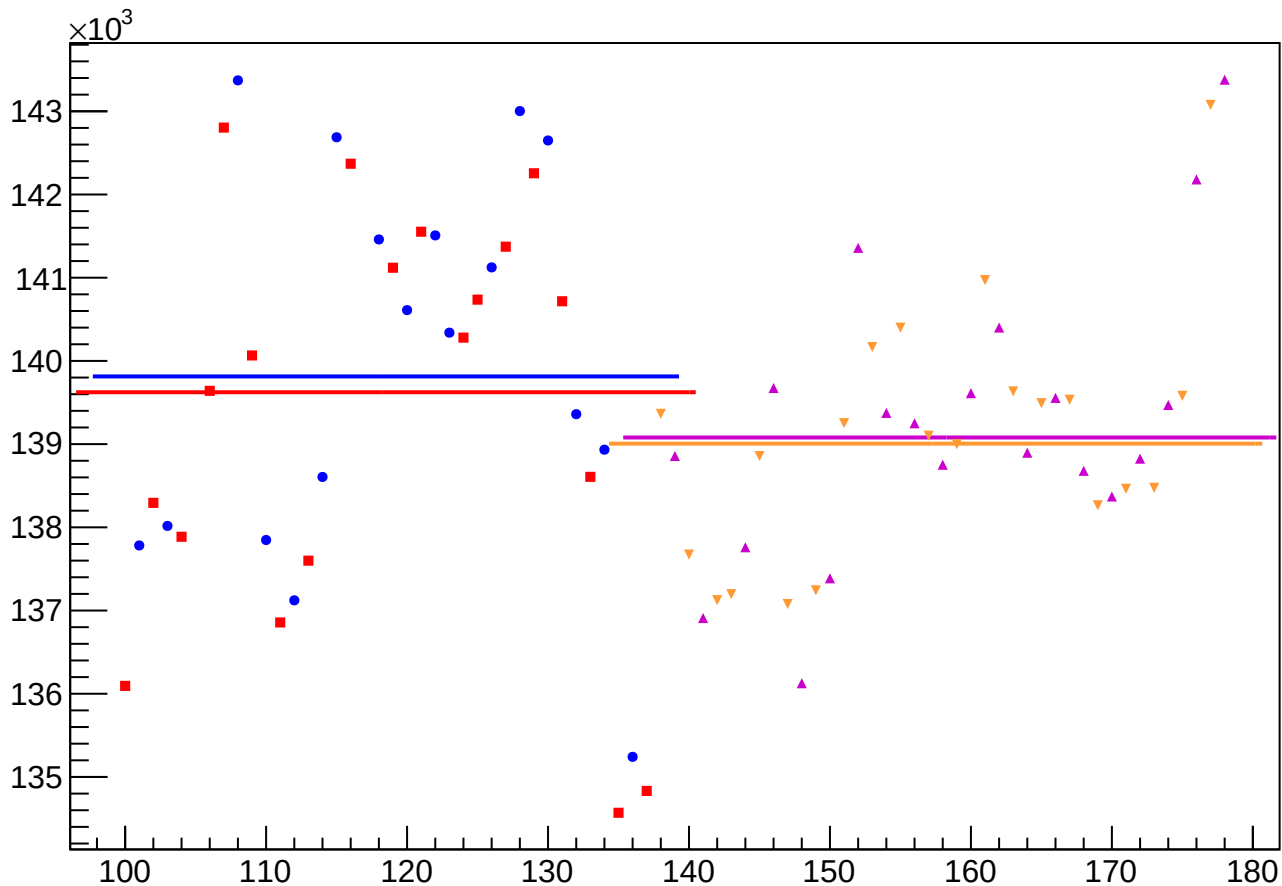
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 167.859 $\pm$ 0.027 χ^2 /NDF: 3833629.8/36

Out: 161.718 $\pm$ 0.025 χ^2 /NDF: 4023028.6/39

All: 164.632 $\pm$ 0.018 χ^2 /NDF: 7884377.9/76

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062

χ^2/NDF : 1689865533.6/16

Left: 139041.856 $\pm$ 0.037

χ^2/NDF : 1627273242.5/16

Left Out: 139005.639 $\pm$ 0.051

χ^2/NDF : 701825812.5/20

Right: 139713.961 $\pm$ 0.043

χ^2/NDF : 3200544274.5/20

Right Out: 139623.387 $\pm$ 0.059

χ^2/NDF : 1505731109.1/18

In: 139387.412 $\pm$ 0.040

χ^2/NDF : 2695888084.3/30

Out: 139272.380 $\pm$ 0.039

χ^2/NDF : 2269806619.0/30

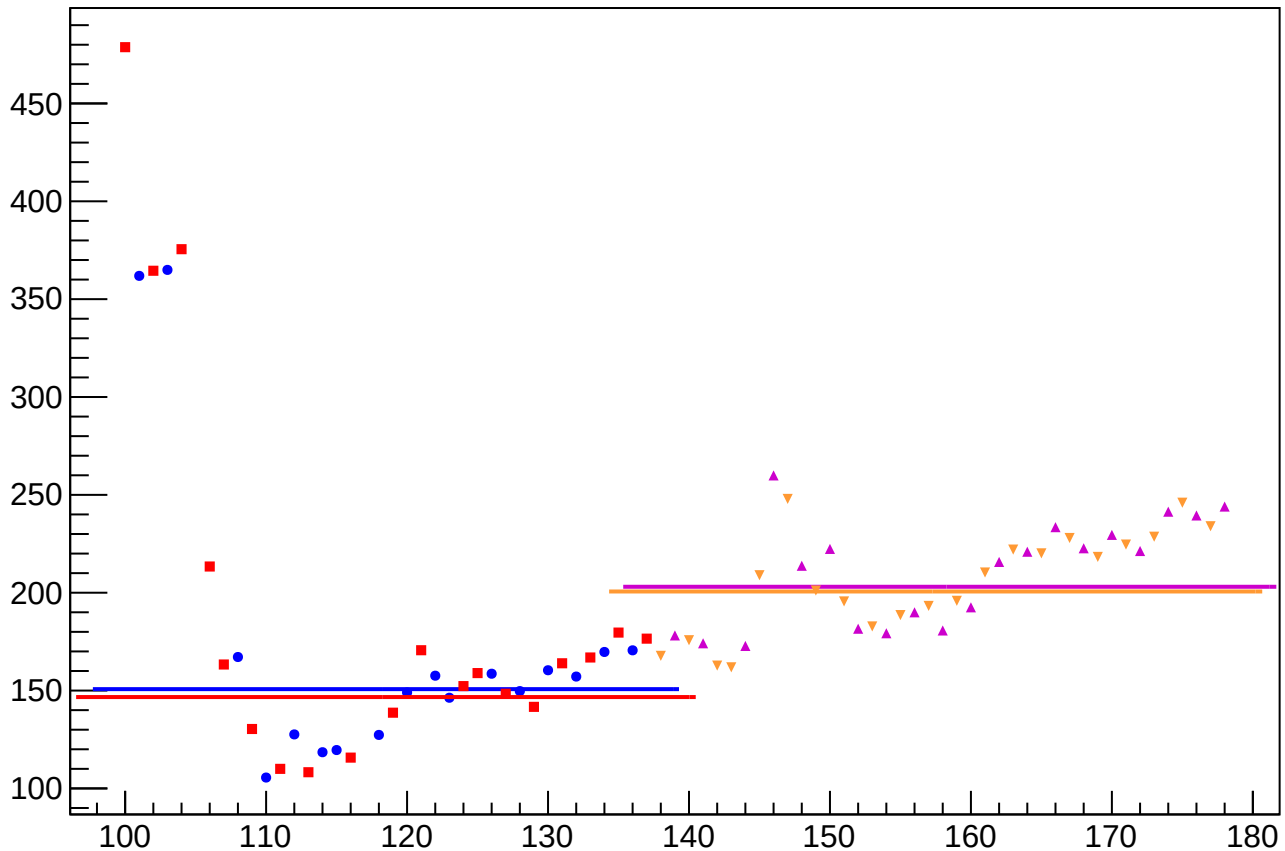
Left In: 139079.726 $\pm$ 0.053

χ^2/NDF : 924433753.9/19

All: 139327.985 $\pm$ 0.028

χ^2/NDF : 496994731.0/19

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 200.628 $\pm$ 0.036 χ^2 /NDF: 473971.3/20

Right Out: 146.686 $\pm$ 0.042 χ^2 /NDF: 1203106.6/18

Left In: 203.042 $\pm$ 0.037 χ^2 /NDF: 490979.0/19

Left: 201.808 $\pm$ 0.026 χ^2 /NDF: 967101.2/40

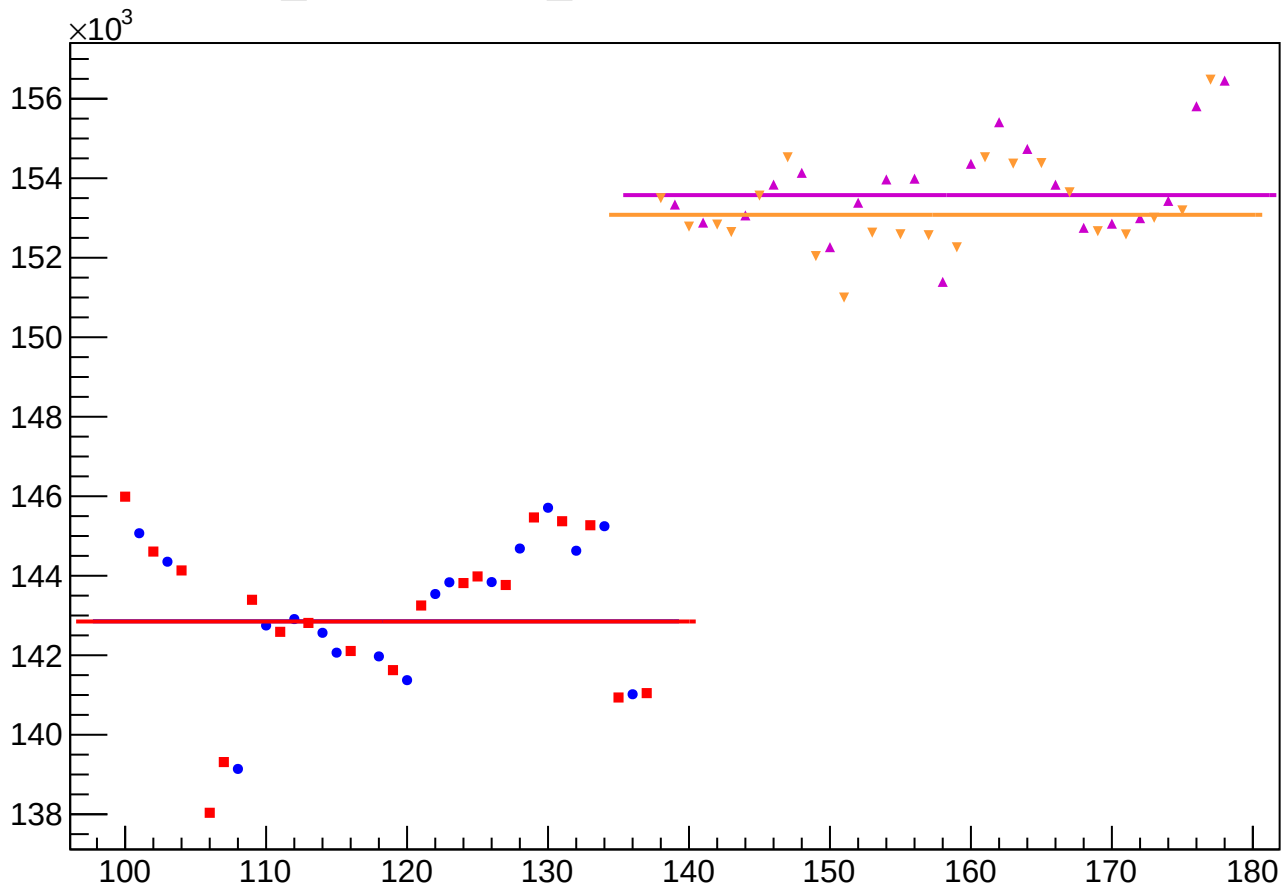
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 181.112 $\pm$ 0.028 χ^2 /NDF: 2369923.2/36

Out: 177.336 $\pm$ 0.027 χ^2 /NDF: 2626391.4/39

All: 179.162 $\pm$ 0.020 χ^2 /NDF: 5005480.9/76

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065 χ^2/NDF : 740367386.5/16

Left Out: 153080.135 $\pm$ 0.052 χ^2/NDF : 426725824.6/20

Right Out: 142849.362 $\pm$ 0.060 χ^2/NDF : 850066807.5/18

Left In: 153575.652 $\pm$ 0.053 χ^2/NDF : 451194357.5/19

Left: 153322.227 $\pm$ 0.037 χ^2/NDF : 922152141.3/40

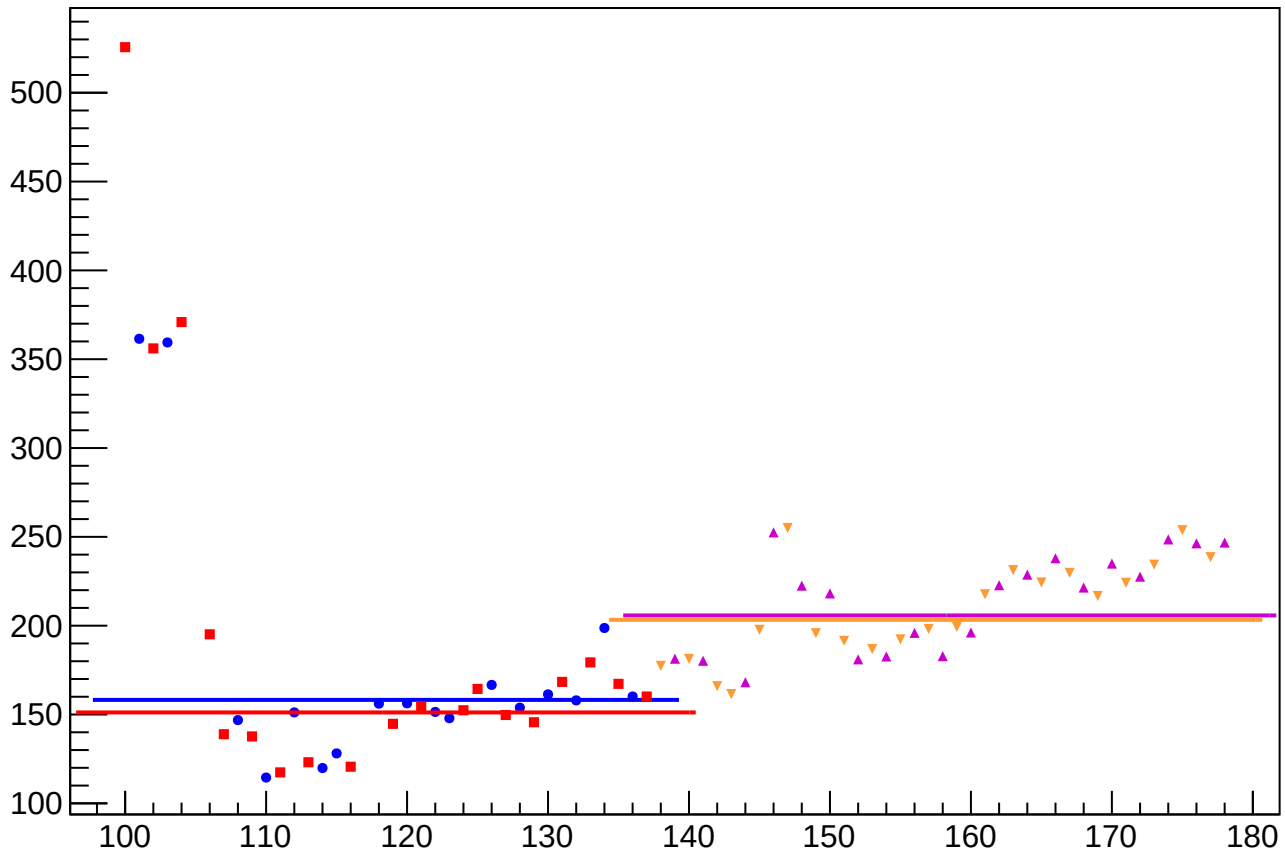
Right: 142851.648 $\pm$ 0.044 χ^2/NDF : 1590437268.8/40

In: 149239.862 $\pm$ 0.041 χ^2/NDF : 17565282499.7/30

Out: 148717.283 $\pm$ 0.039 χ^2/NDF : 17734768482.8/30

All: 148967.676 $\pm$ 0.028 χ^2/NDF : 353841703

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 203.292+/-0.037 χ^2/NDF : 476288.4/20

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 205.772+/-0.038 χ^2/NDF : 511007.9/19

Left: 204.503+/-0.026 χ^2/NDF : 989511.5/40

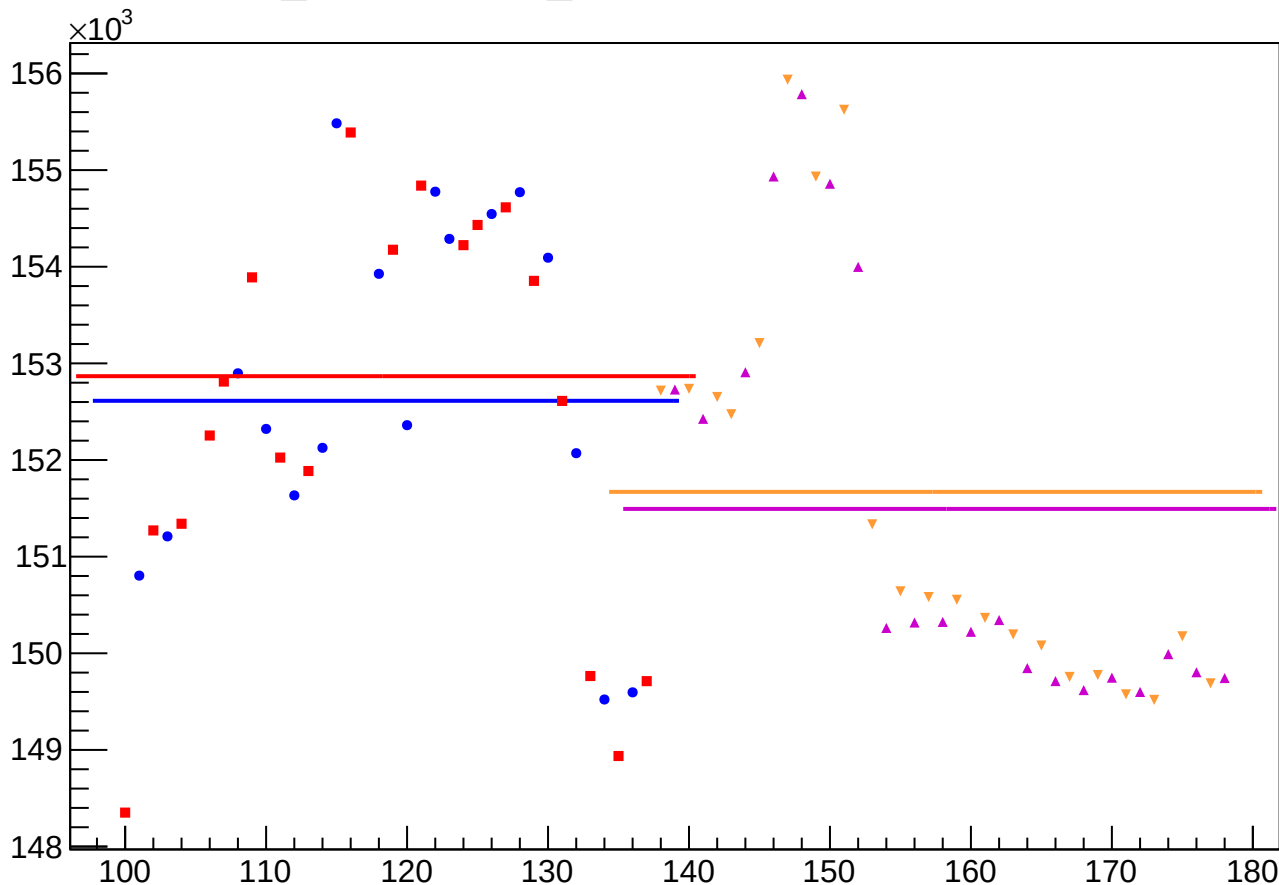
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 186.547+/-0.029 χ^2/NDF : 2038356.0/36

Out: 181.067+/-0.028 χ^2/NDF : 2333795.1/39

All: 183.692+/-0.020 χ^2/NDF : 4390651.2/76

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072 χ^2 /NDF: 621416187.4/16

Left Out: 151670.331 $\pm$ 0.052 χ^2 /NDF: 1328257758.0/20

Right Out: 152867.453 $\pm$ 0.066 χ^2 /NDF: 719075986.4/18

Left In: 151494.019 $\pm$ 0.053 χ^2 /NDF: 1331317056.5/19

Left: 151584.059 $\pm$ 0.037 χ^2 /NDF: 2665161599.5/4

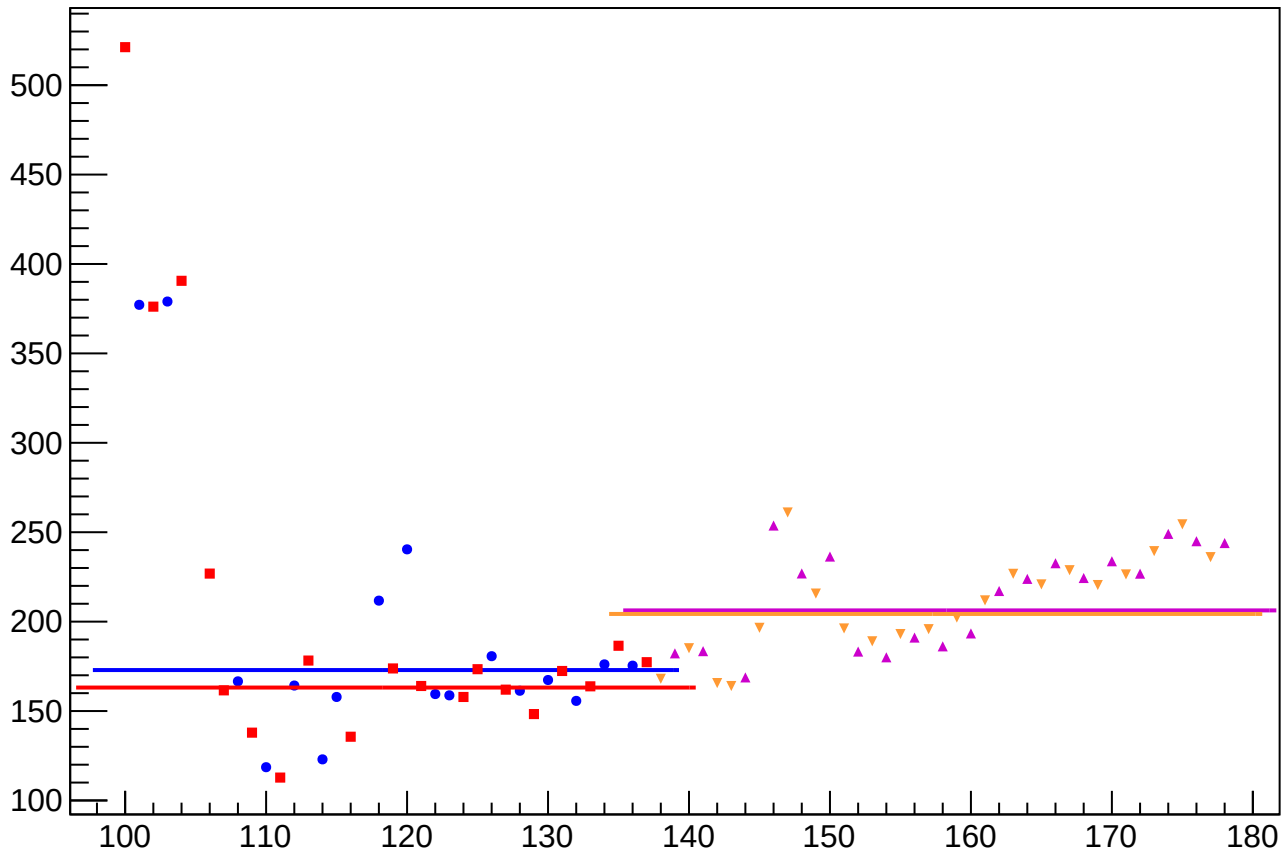
Right: 152750.957 $\pm$ 0.049 χ^2 /NDF: 1347263895.4/4

In: 151888.887 $\pm$ 0.043 χ^2 /NDF: 2108171578.9/30

Out: 152128.923 $\pm$ 0.041 χ^2 /NDF: 2248973587.0/30

All: 152014.323 $\pm$ 0.030 χ^2 /NDF: 437352253.0/100

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 204.296+/-0.037 χ^2/NDF : 495963.4/20

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 206.279+/-0.038 χ^2/NDF : 510453.6/19

Left: 205.267+/-0.026 χ^2/NDF : 1007830.8/40

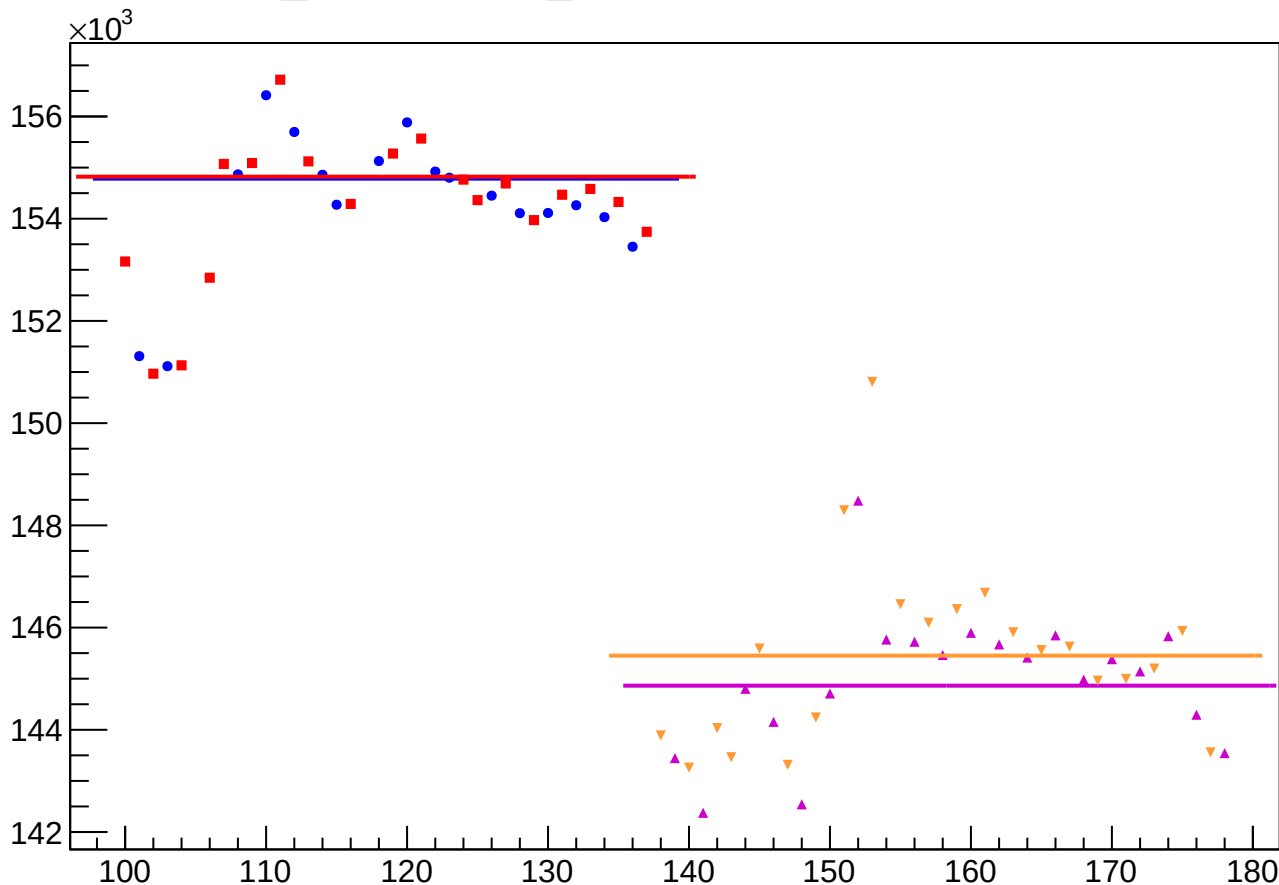
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 194.503+/-0.030 χ^2/NDF : 1728899.1/36

Out: 188.529+/-0.029 χ^2/NDF : 2006407.9/39

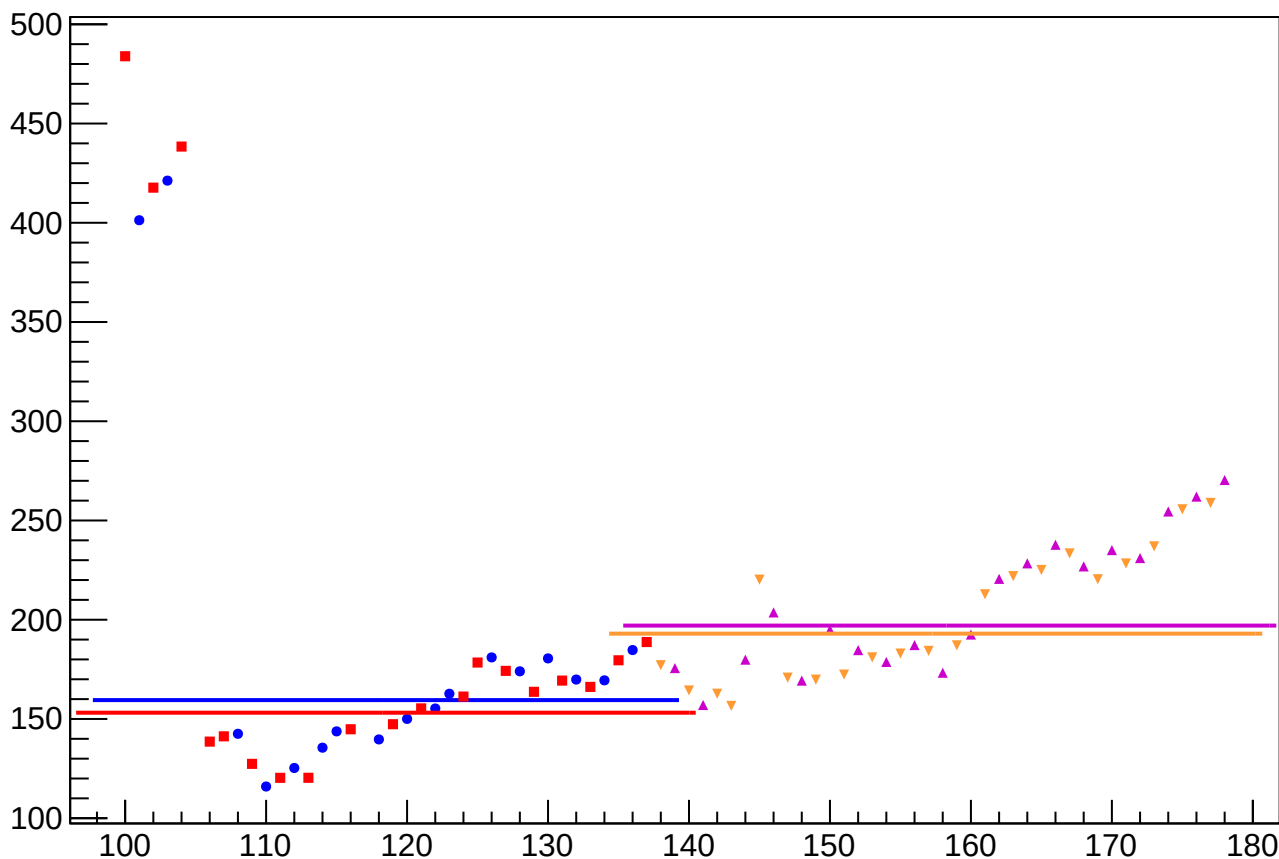
All: 191.382+/-0.021 χ^2/NDF : 3755595.9/76

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145166.785 $\pm$ 0.035	χ^2 /NDF: 2465925544.0/4
Left Out: 145451.239 $\pm$ 0.049	χ^2 /NDF: 1537417840.7/20	Right: 154804.381 $\pm$ 0.045	χ^2 /NDF: 559614489.4/3
Right Out: 154822.113 $\pm$ 0.061	χ^2 /NDF: 293850525.9/18	In: 148615.404 $\pm$ 0.040	χ^2 /NDF: 15446835866.7/3
Left In: 144863.508 $\pm$ 0.051	χ^2 /NDF: 859924147.8/19	Out: 149168.564 $\pm$ 0.038	χ^2 /NDF: 16121551419.4
		All: 148905.010 $\pm$ 0.028	χ^2 /NDF: 316675183

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504+/-0.046 χ^2/NDF : 1131844.5/16

Left Out: 192.988+/-0.035 χ^2/NDF : 698208.3/20

Right Out: 153.153+/-0.043 χ^2/NDF : 1173739.7/18

Left In: 197.047+/-0.036 χ^2/NDF : 701567.6/19

Left: 194.952+/-0.025 χ^2/NDF : 1406319.0/40

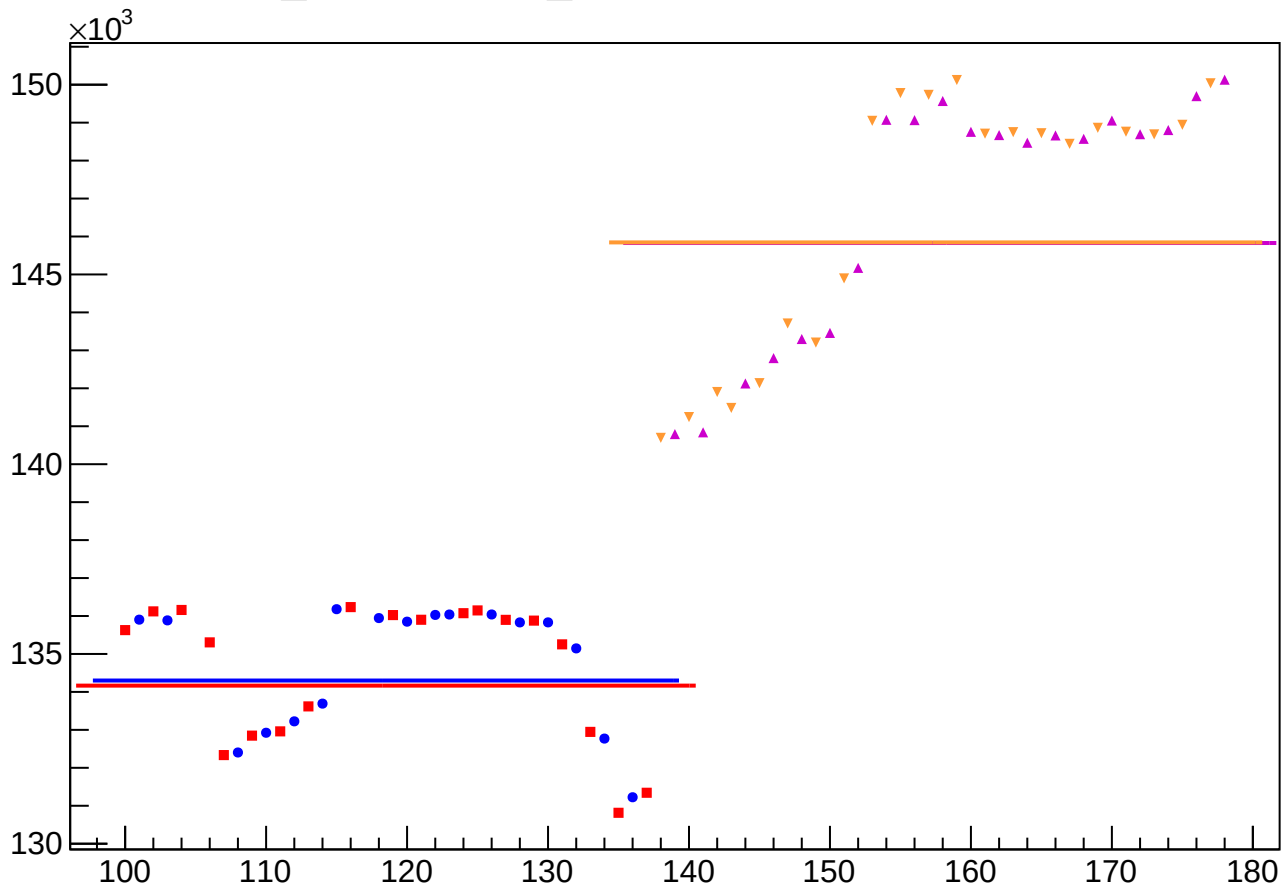
Right: 156.104+/-0.032 χ^2/NDF : 2315690.5/35

In: 182.848+/-0.028 χ^2/NDF : 2243633.5/36

Out: 177.186+/-0.027 χ^2/NDF : 2388395.8/39

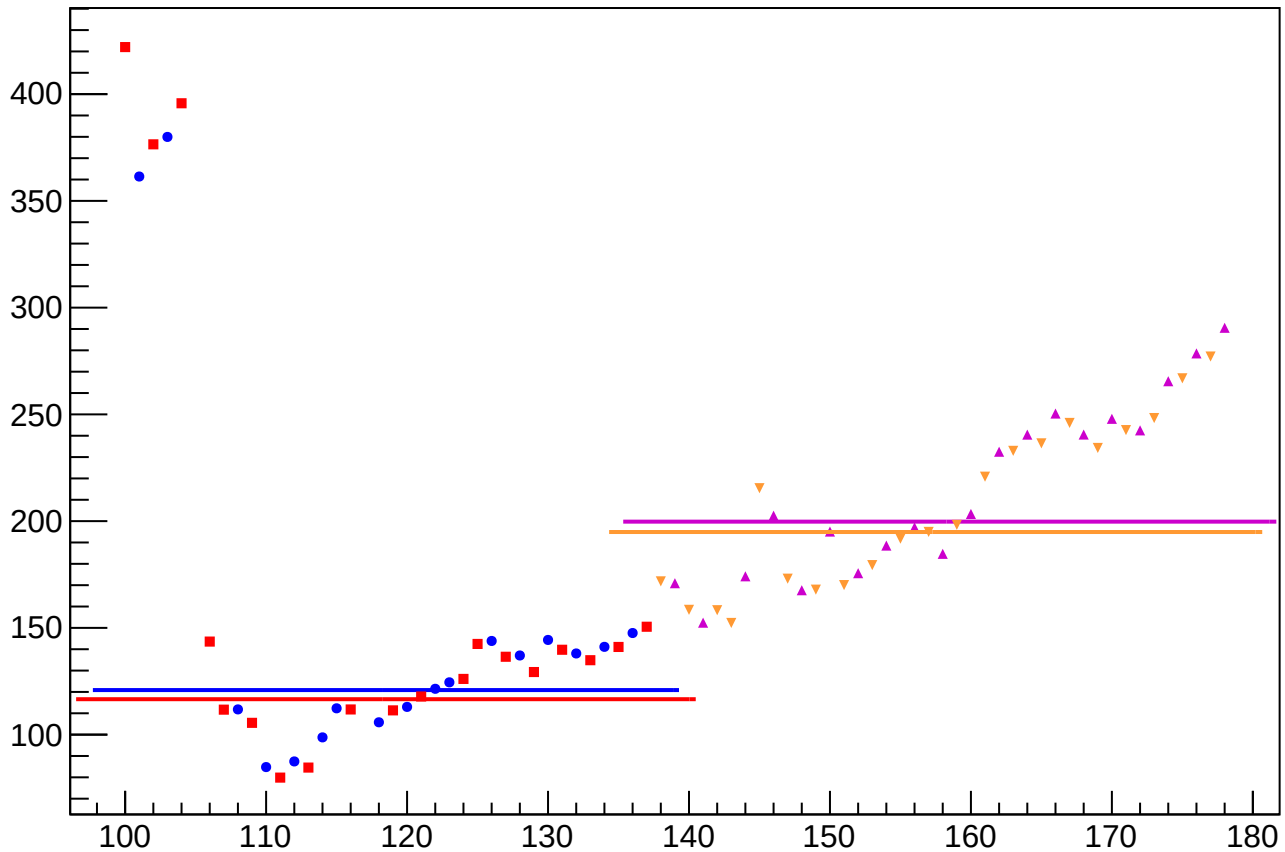
All: 179.884+/-0.020 χ^2/NDF : 4652803.1/76

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025+/-0.050	χ^2/NDF : 1149581803.2/16	Left: 145836.578+/-0.036	χ^2/NDF : 9273859266.2/4
Left Out: 145844.283+/-0.050	χ^2/NDF : 4962873156.6/20	Right: 134228.768+/-0.035	χ^2/NDF : 2364832007.2/4
Right Out: 134165.615+/-0.047	χ^2/NDF : 1211471052.4/18	In: 139883.805+/-0.036	χ^2/NDF : 30860195274.8/3
Left In: 145828.298+/-0.052	χ^2/NDF : 4310937046.7/19	Out: 139680.439+/-0.034	χ^2/NDF : 34848548404.5
		All: 139777.171+/-0.025	χ^2/NDF : 657253378

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872+/-0.036 χ^2/NDF : 1463728.4/16

Left Out: 194.904+/-0.035 χ^2/NDF : 975024.2/20

Right Out: 116.595+/-0.034 χ^2/NDF : 1541338.5/18

Left In: 199.760+/-0.037 χ^2/NDF : 963814.0/19

Left: 197.244+/-0.025 χ^2/NDF : 1947892.9/40

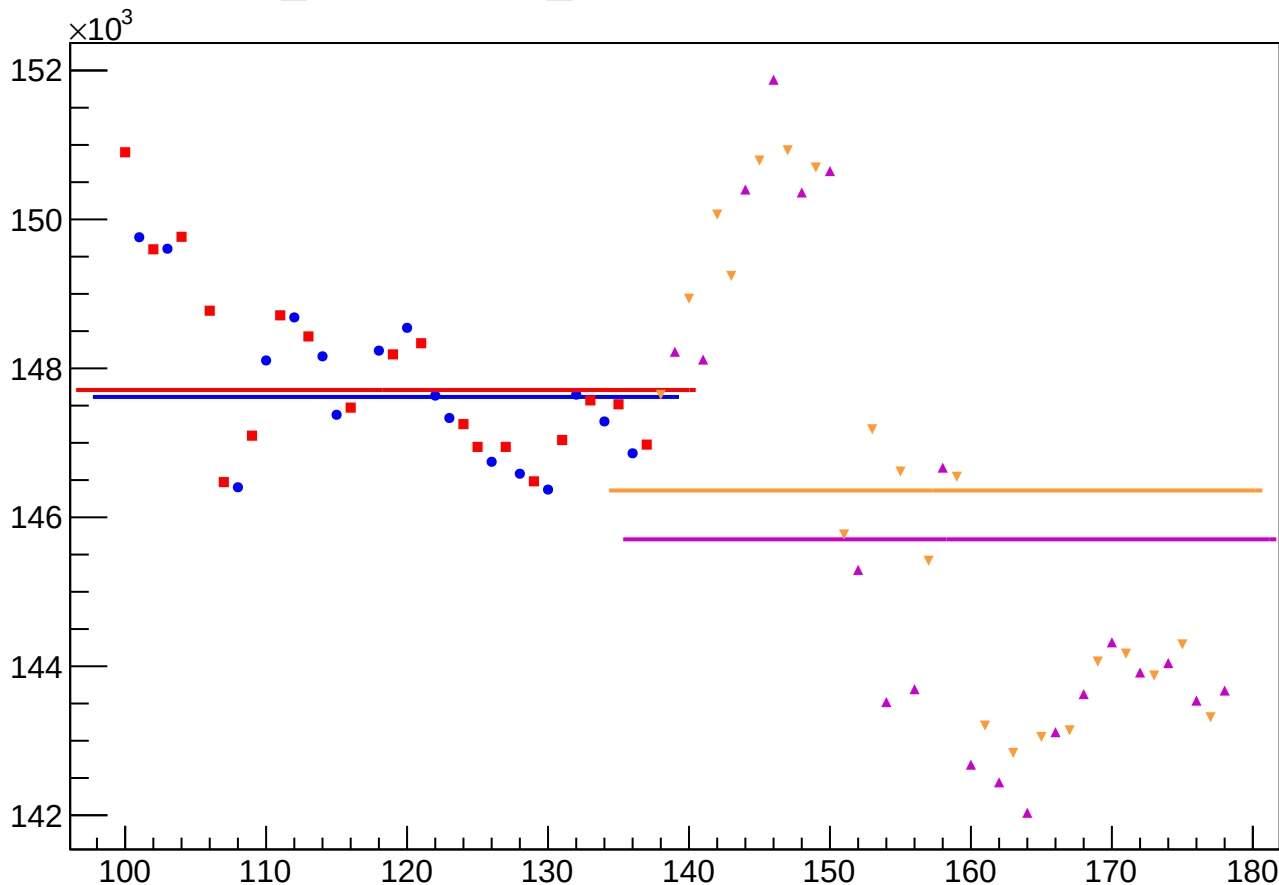
Right: 118.605+/-0.024 χ^2/NDF : 3012723.0/35

In: 159.082+/-0.026 χ^2/NDF : 4806276.1/36

Out: 153.573+/-0.024 χ^2/NDF : 5094829.2/39

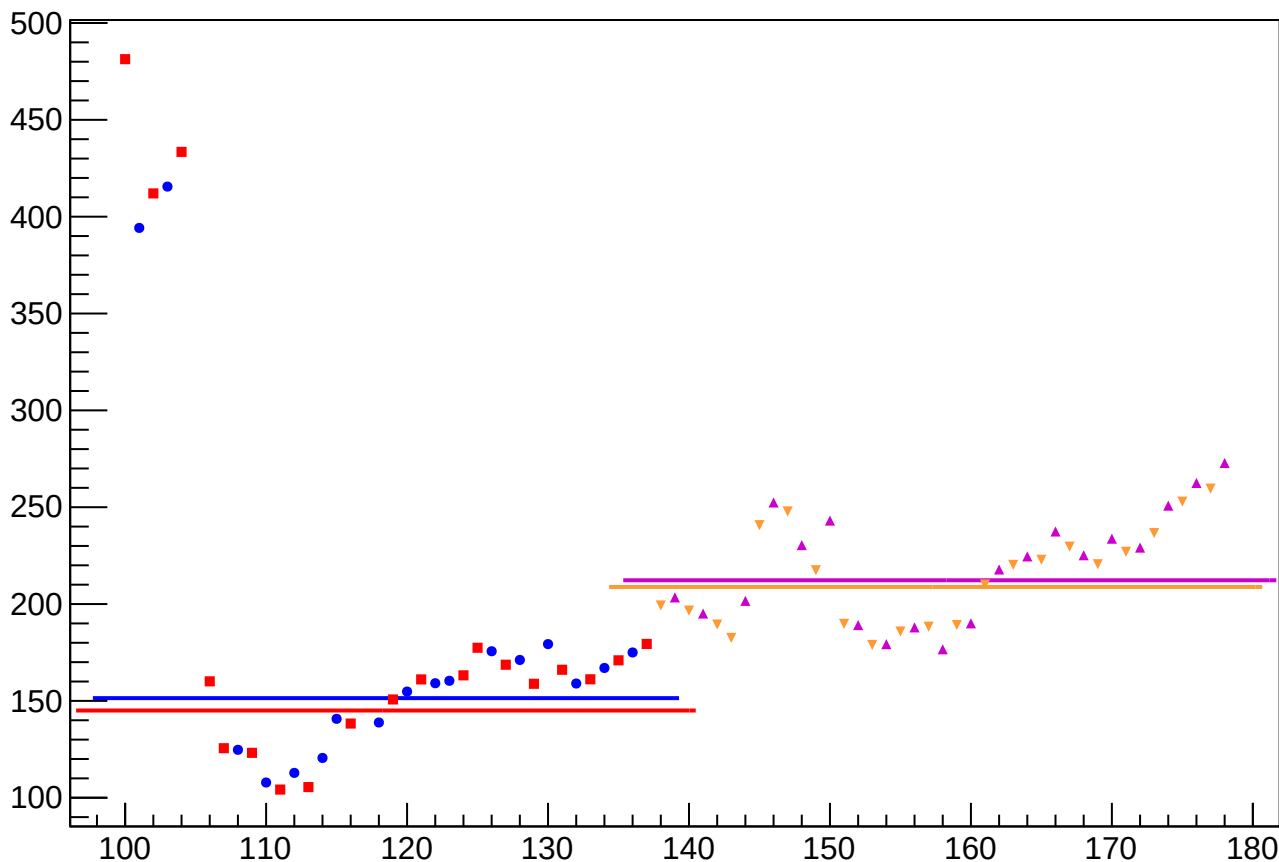
All: 156.194+/-0.018 χ^2/NDF : 9925456.8/76

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150+/-0.062	χ^2/NDF : 199263428.7/16	Left: 146042.035+/-0.038	χ^2/NDF : 5435097742.3/4
Left Out: 146360.571+/-0.053	χ^2/NDF : 2419443497.9/20	Right: 147666.153+/-0.043	χ^2/NDF : 404368550.3/3
Right Out: 147709.723+/-0.058	χ^2/NDF : 203906685.9/18	In: 146535.216+/-0.041	χ^2/NDF : 3670375568.4/36
Left In: 145704.703+/-0.055	χ^2/NDF : 2941898421.0/19	Out: 146973.541+/-0.039	χ^2/NDF : 2915308884.3/3
		All: 146764.568+/-0.028	χ^2/NDF : 66449475

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424+/-0.044 χ^2/NDF : 1257843.0/16

Left Out: 208.827+/-0.038 χ^2/NDF : 397725.9/20

Right Out: 145.039+/-0.041 χ^2/NDF : 1375972.0/18

Left In: 212.273+/-0.039 χ^2/NDF : 499819.2/19

Left: 210.500+/-0.027 χ^2/NDF : 901617.4/40

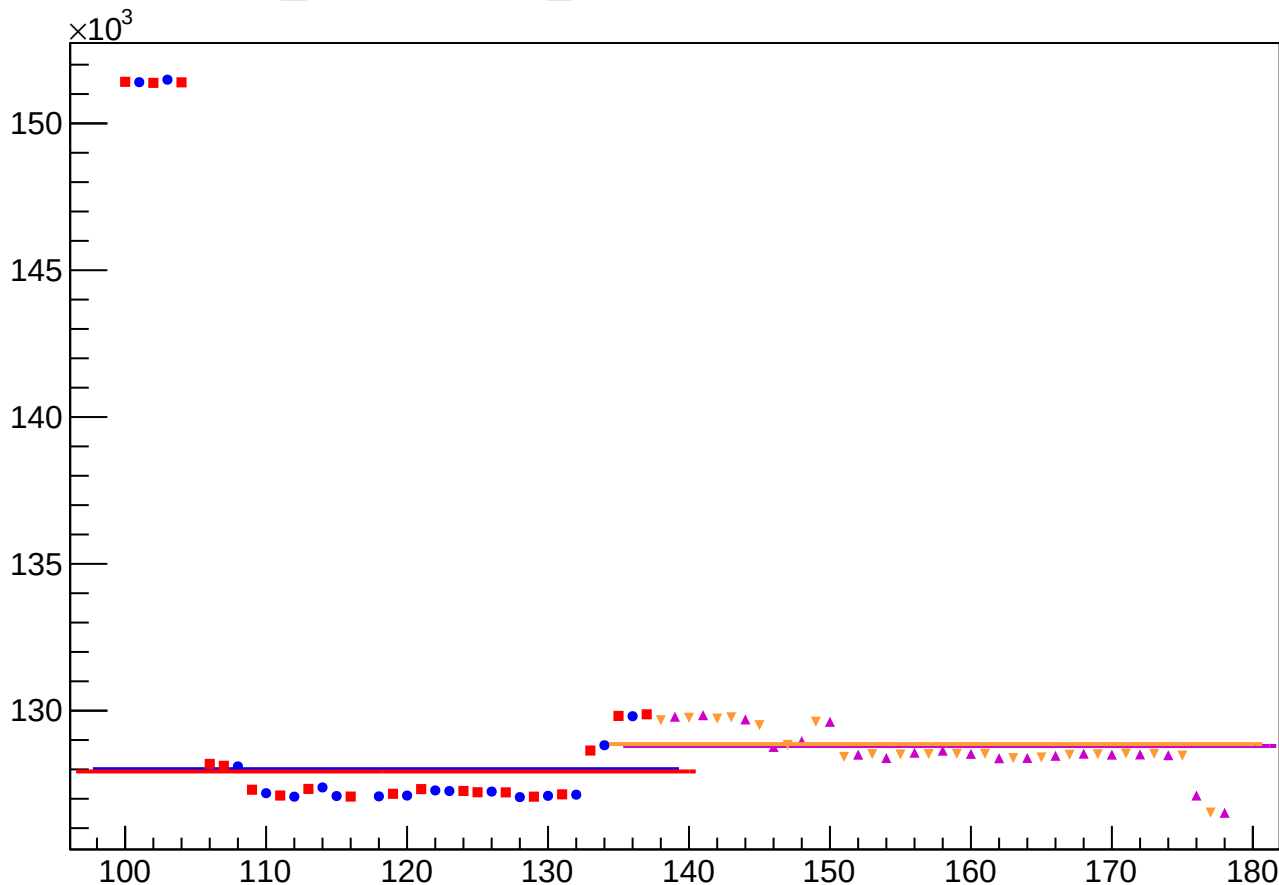
Right: 148.012+/-0.030 χ^2/NDF : 2644973.7/35

In: 185.834+/-0.029 χ^2/NDF : 2830264.4/36

Out: 179.846+/-0.028 χ^2/NDF : 3078957.6/39

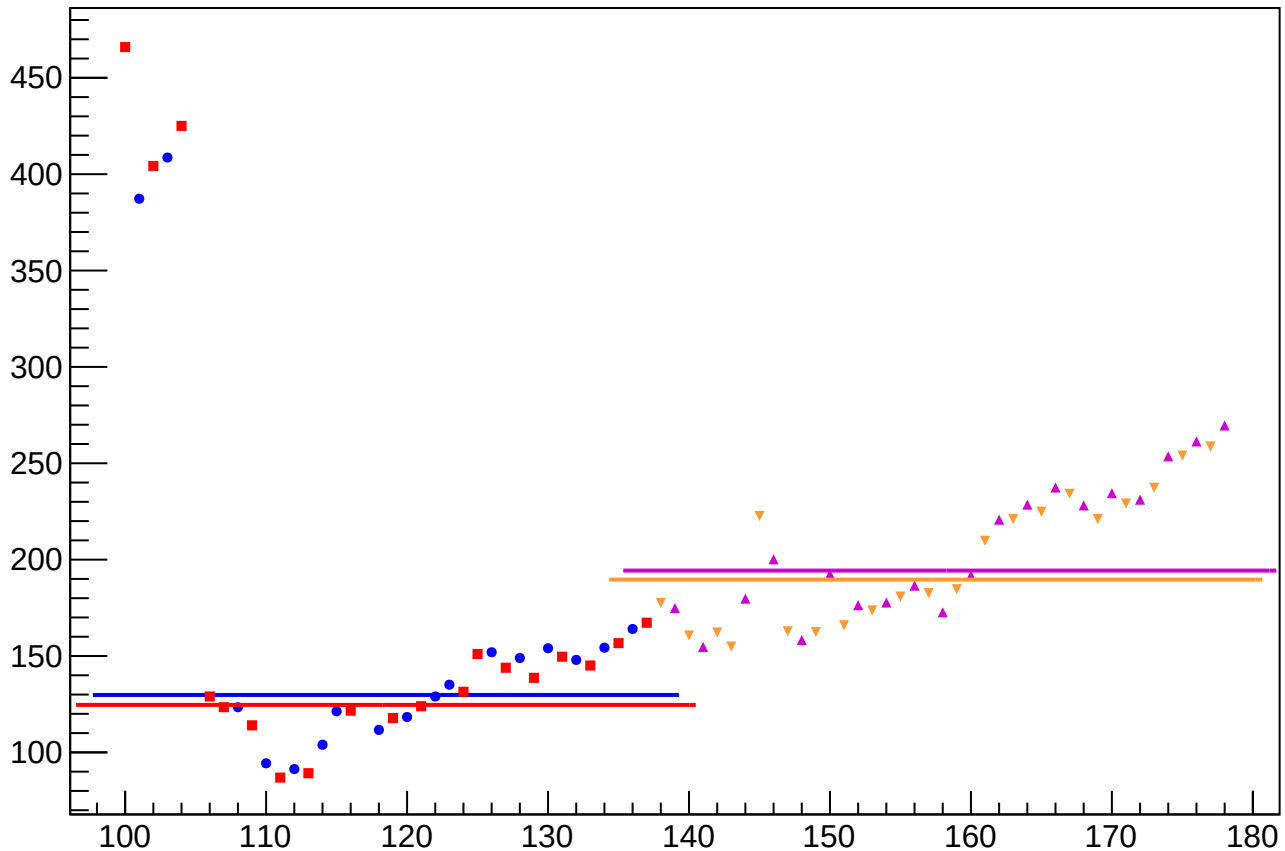
All: 182.701+/-0.020 χ^2/NDF : 5931346.4/76

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128862.618 $\pm$ 0.049 χ^2 /NDF: 194092157.6/20
 Right Out: 127930.136 $\pm$ 0.050 χ^2 /NDF: 3768176193.0/18
 Left In: 128798.449 $\pm$ 0.050 χ^2 /NDF: 204829166.0/19
 Left: 128831.696 $\pm$ 0.035 χ^2 /NDF: 399762702.6/40
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/40
 In: 128431.403 $\pm$ 0.037 χ^2 /NDF: 4639127682.5/30
 Out: 128413.517 $\pm$ 0.035 χ^2 /NDF: 4139847600.1/30
 All: 128421.986 $\pm$ 0.025 χ^2 /NDF: 877909919.0/100

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 ± 0.038 $\chi^2/\text{NDF}: 1485294.2/16$

Left Out: 189.639 ± 0.034 $\chi^2/\text{NDF}: 804612.5/20$

Right Out: 124.625 ± 0.036 $\chi^2/\text{NDF}: 1531827.4/18$

Left In: 194.326 ± 0.036 $\chi^2/\text{NDF}: 783319.4/19$

Left: 191.898 ± 0.025 $\chi^2/\text{NDF}: 1596908.3/40$

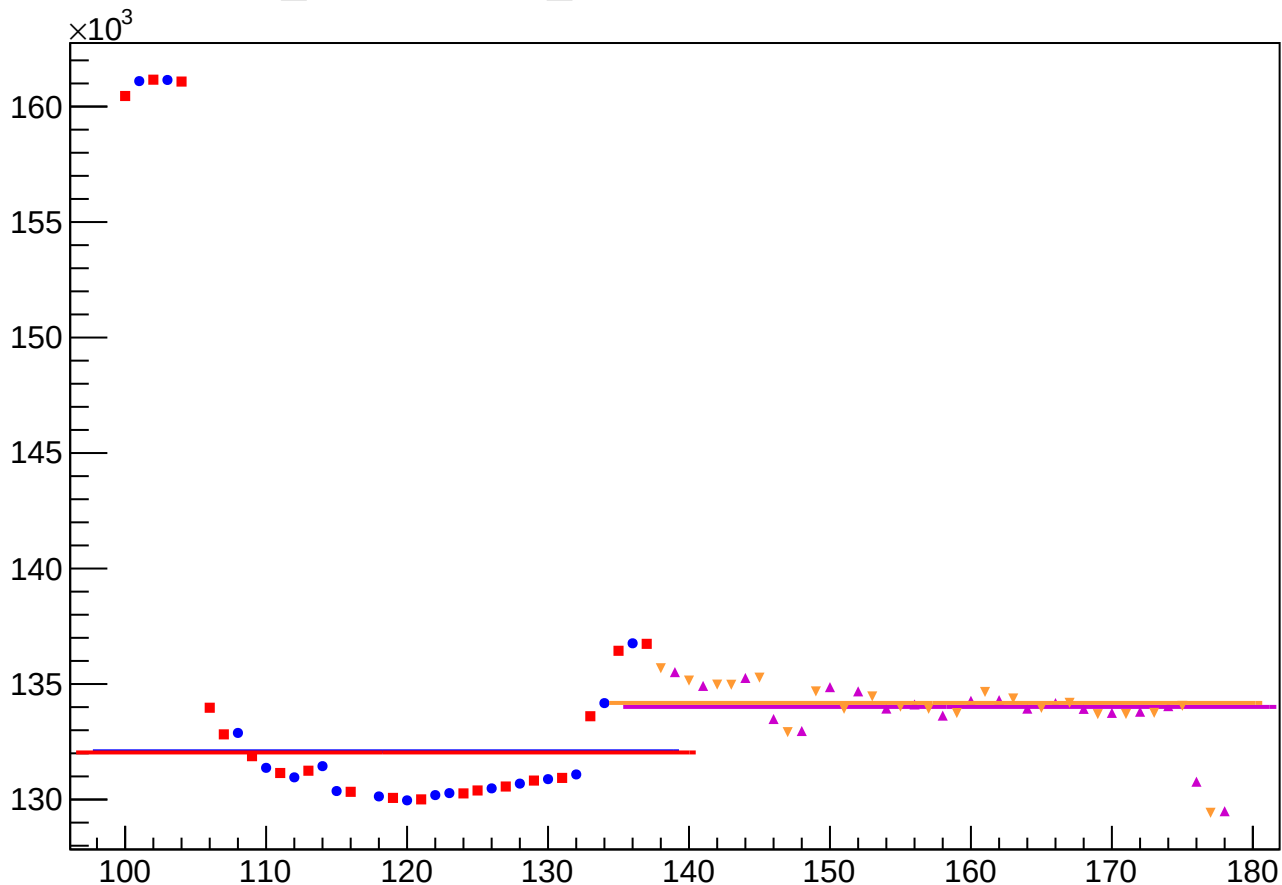
Right: 127.025 ± 0.026 $\chi^2/\text{NDF}: 3026904.3/35$

In: 164.386 ± 0.026 $\chi^2/\text{NDF}: 3792530.7/36$

Out: 158.327 ± 0.025 $\chi^2/\text{NDF}: 4062939.6/39$

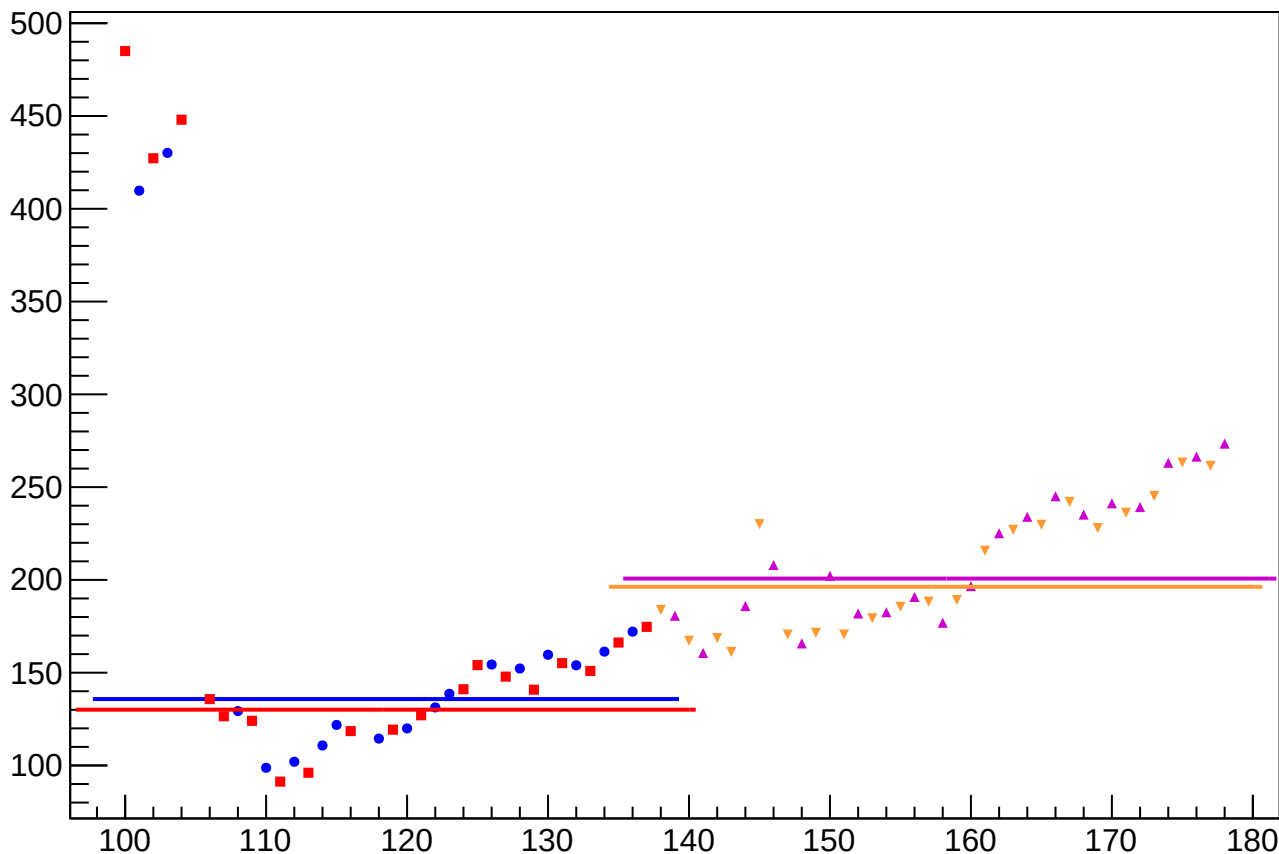
All: 161.196 ± 0.018 $\chi^2/\text{NDF}: 7883906.1/76$

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794+/-0.057	χ^2/NDF : 6733230928.7/16	Left: 134098.531+/-0.036	χ^2/NDF : 956986284.9/40
Left Out: 134181.797+/-0.050	χ^2/NDF : 446142081.6/20	Right: 132060.364+/-0.038	χ^2/NDF : 12615754245.0
Right Out: 132037.539+/-0.053	χ^2/NDF : 5882115872.9/18	In: 133128.376+/-0.038	χ^2/NDF : 7865128528.9/30
Left In: 134009.357+/-0.052	χ^2/NDF : 505154119.1/19	Out: 133157.557+/-0.036	χ^2/NDF : 7198607692.6/30
		All: 133143.732+/-0.026	χ^2/NDF : 150640422.0

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 ± 0.040 $\chi^2/\text{NDF}: 1441904.9/16$

Left Out: 196.282 ± 0.036 $\chi^2/\text{NDF}: 757592.5/20$

Right Out: 130.070 ± 0.037 $\chi^2/\text{NDF}: 1503997.6/18$

Left In: 200.710 ± 0.037 $\chi^2/\text{NDF}: 749576.8/19$

Left: 198.420 ± 0.026 $\chi^2/\text{NDF}: 1514673.2/40$

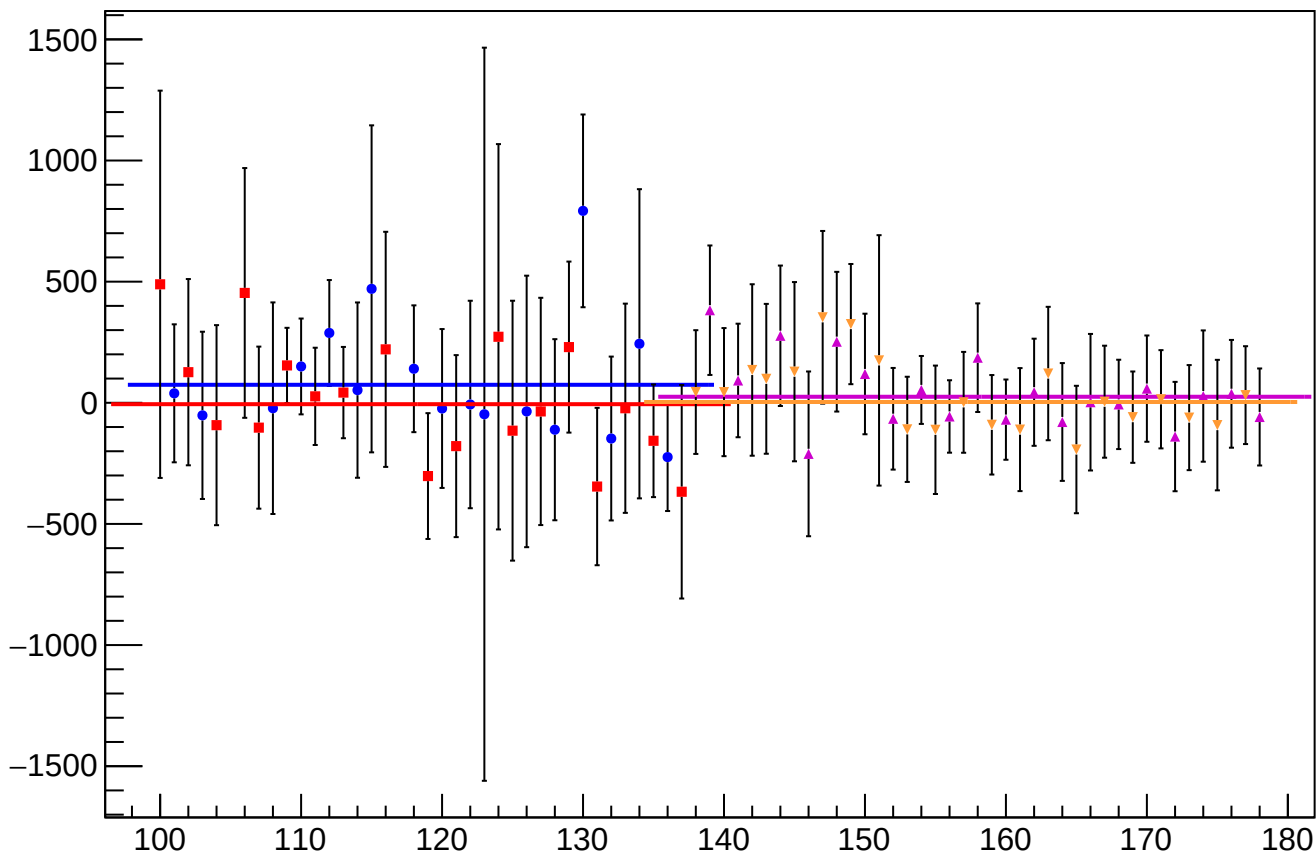
Right: 132.723 ± 0.027 $\chi^2/\text{NDF}: 2956918.0/35$

In: 170.965 ± 0.027 $\chi^2/\text{NDF}: 3620496.3/36$

Out: 164.655 ± 0.026 $\chi^2/\text{NDF}: 3921384.0/39$

All: 167.644 ± 0.019 $\chi^2/\text{NDF}: 7570501.9/76$

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: 3.301+/-54.280 χ^2/NDF : 5.1/20

Right Out: -5.739+/-70.069 χ^2/NDF : 7.1/18

Left In: 24.930+/-47.993 χ^2/NDF : 6.2/19

Left: 15.440+/-35.954 χ^2/NDF : 11.4/40

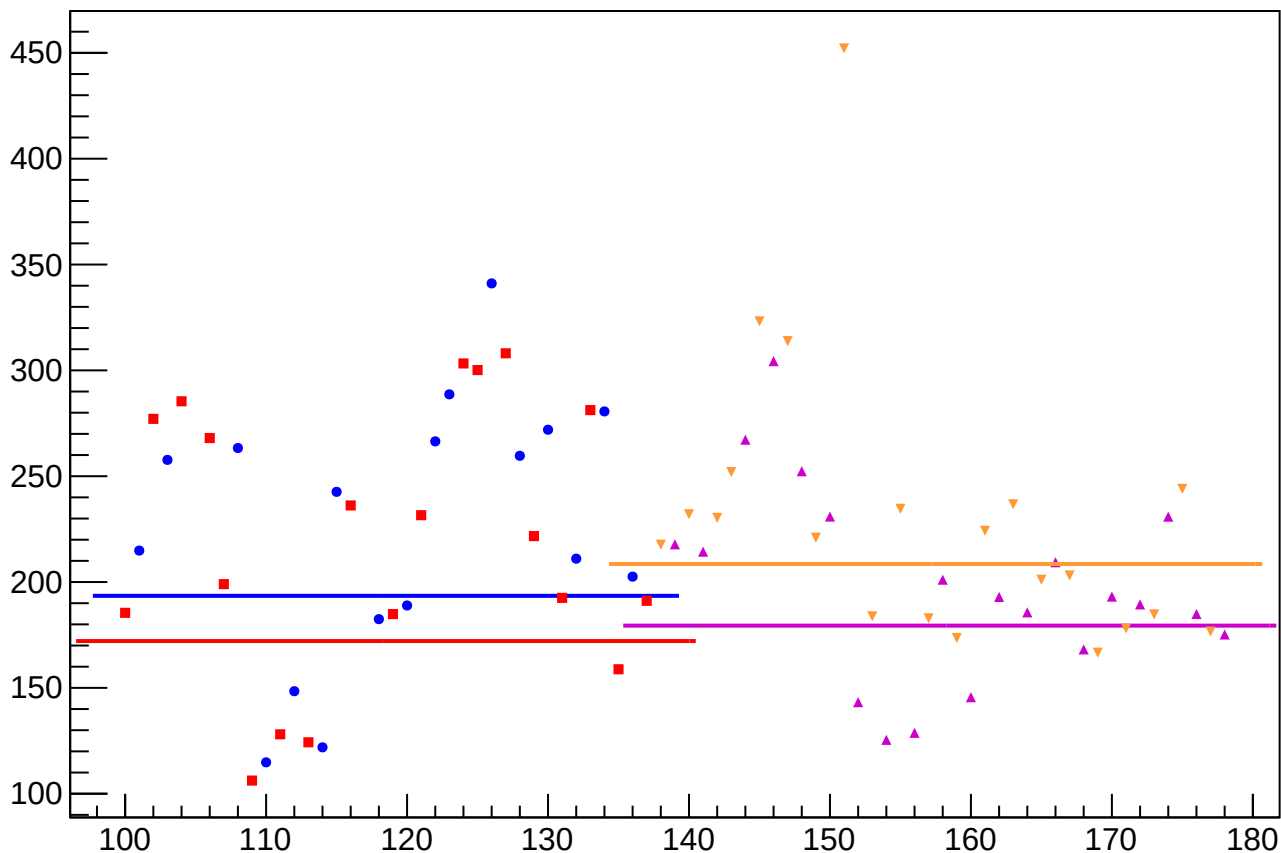
Right: 29.490+/-52.426 χ^2/NDF : 15.4/35

In: 38.233+/-41.020 χ^2/NDF : 14.2/36

Out: -0.089+/-42.911 χ^2/NDF : 12.2/39

All: 19.935+/-29.651 χ^2/NDF : 26.8/76

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 $\pm$ 0.056 χ^2 /NDF: 1017195.7/16

Left Out: 208.514 $\pm$ 0.038 χ^2 /NDF:1298831.6/20

Right Out: 172.122 $\pm$ 0.050 χ^2 /NDF: 1579840.2/18

Left In: 179.405 $\pm$ 0.034 χ^2 /NDF:1565134.2/19

Left: 192.177 $\pm$ 0.025 χ^2 /NDF: 3186769.5/40

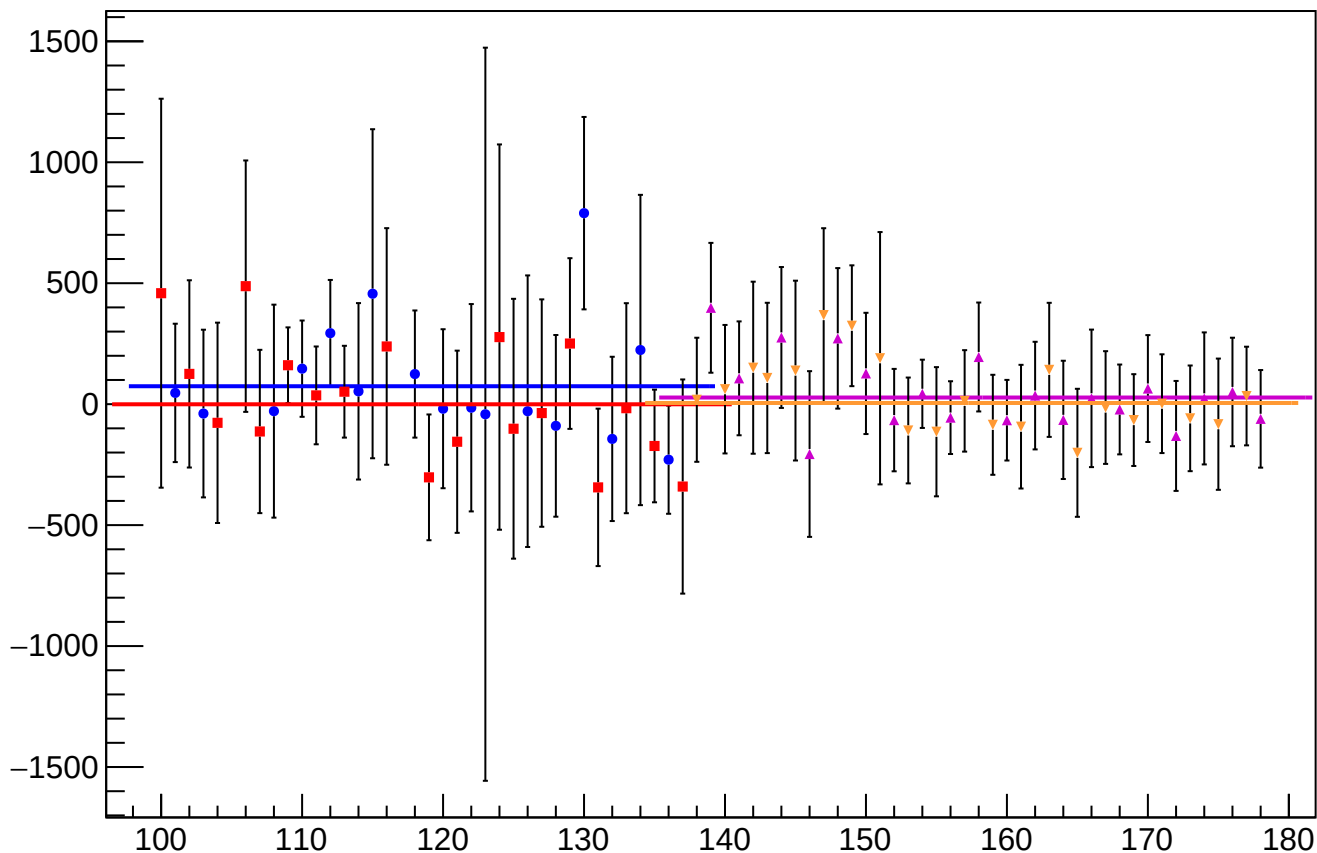
Right: 181.527 $\pm$ 0.037 χ^2 /NDF: 2678891.2/35

In: 183.200 $\pm$ 0.029 χ^2 /NDF:2628736.0/36

Out: 194.865 $\pm$ 0.030 χ^2 /NDF:3215825.1/39

All: 188.770 $\pm$ 0.021 χ^2 /NDF: 5921789.6/76

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 4.869 $\pm$ 54.651 χ^2 /NDF:5.3/20

Right Out: -0.503 $\pm$ 70.437 χ^2 /NDF: 7.3/18

Left In: 27.471 $\pm$ 48.305 χ^2 /NDF:6.4/19

Left: 17.558 $\pm$ 36.193 χ^2 /NDF: 11.7/40

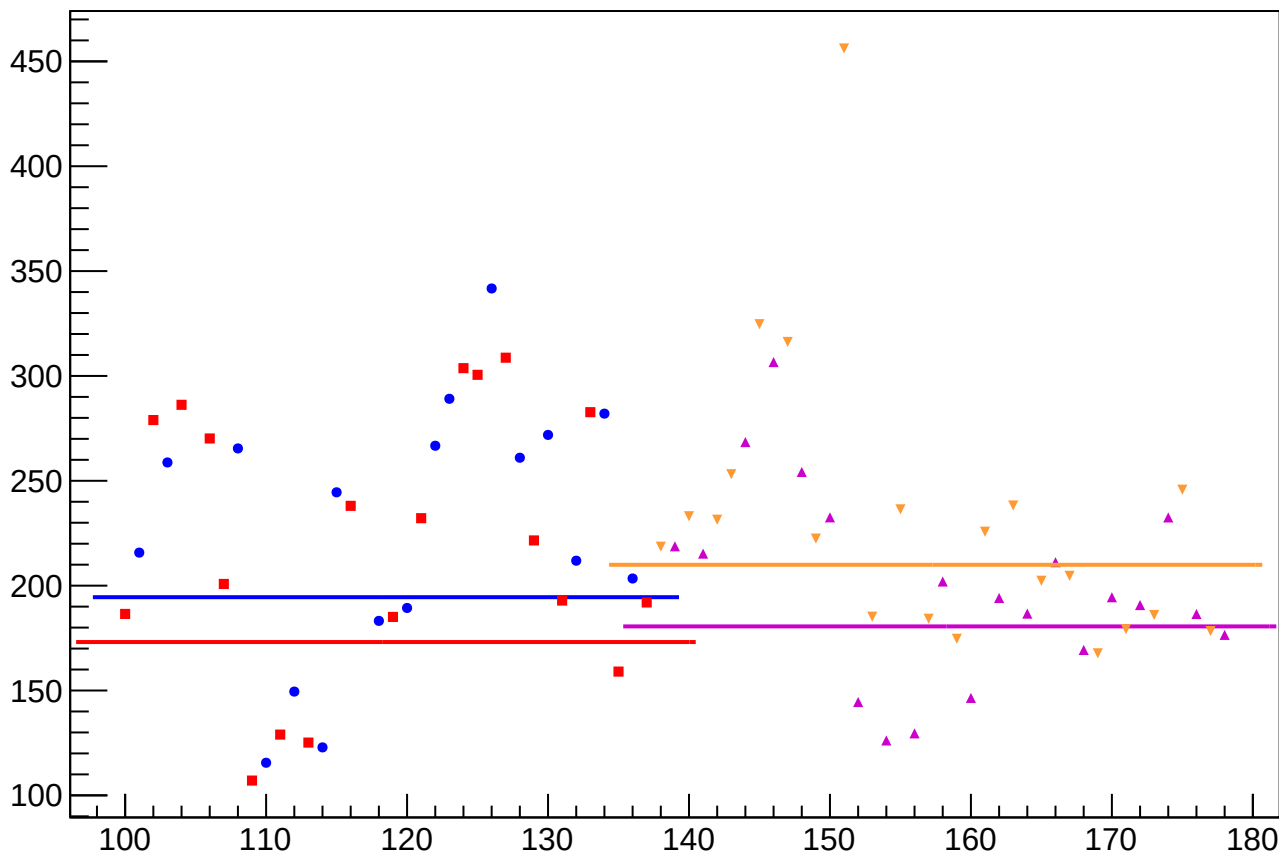
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 40.065 $\pm$ 41.268 χ^2 /NDF:14.2/36

Out: 2.850 $\pm$ 43.179 χ^2 /NDF:12.6/39

All: 22.299 $\pm$ 29.834 χ^2 /NDF: 27.2/76

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 ± 0.056 $\chi^2/\text{NDF}: 1008514.7/16$

Left Out: 209.944 ± 0.039 $\chi^2/\text{NDF}: 1295717.9/20$

Right Out: 173.111 ± 0.050 $\chi^2/\text{NDF}: 1567374.3/18$

Left In: 180.567 ± 0.034 $\chi^2/\text{NDF}: 1564511.9/19$

Left: 193.451 ± 0.026 $\chi^2/\text{NDF}: 3184670.4/40$

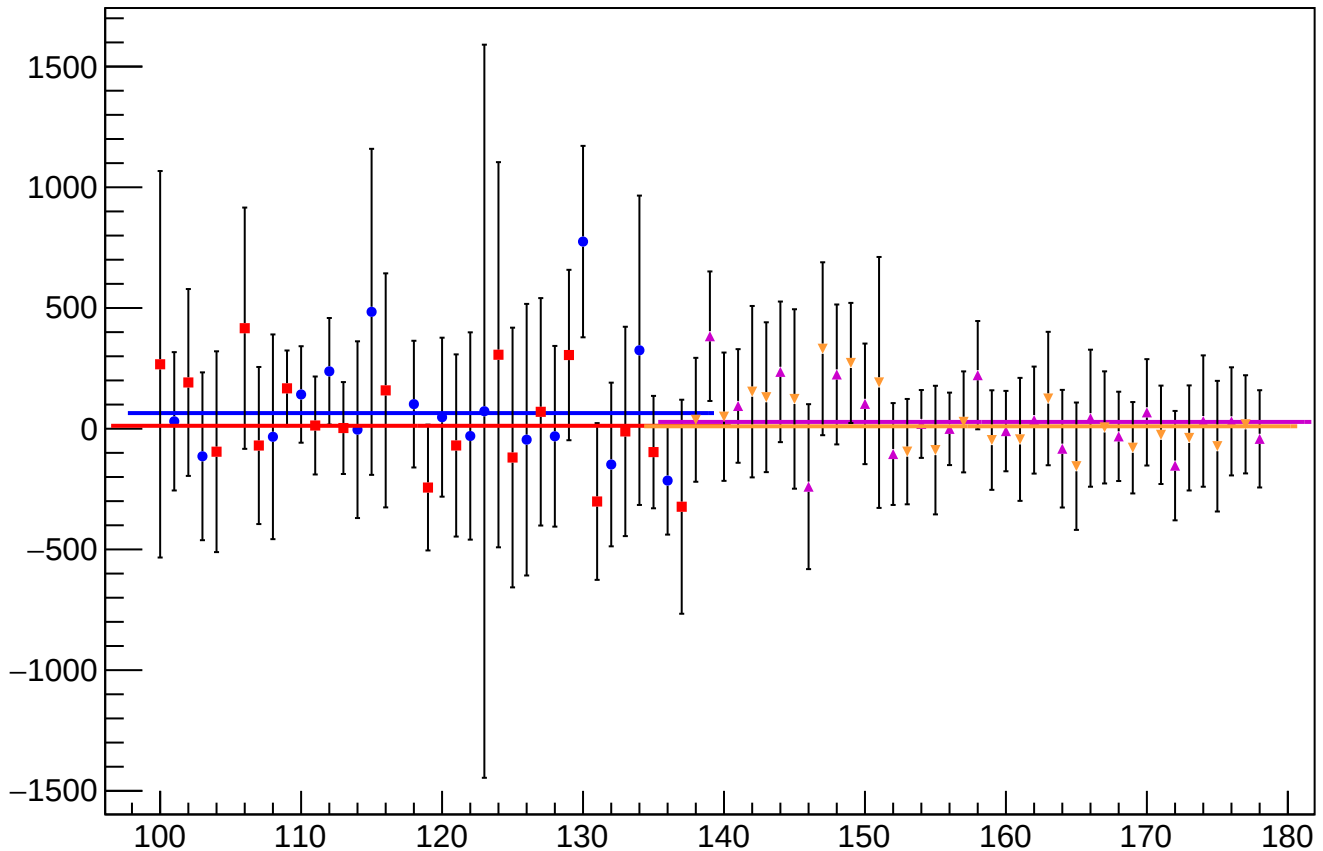
Right: 182.529 ± 0.037 $\chi^2/\text{NDF}: 2657073.5/35$

In: 184.329 ± 0.029 $\chi^2/\text{NDF}: 2617952.5/36$

Out: 196.103 ± 0.031 $\chi^2/\text{NDF}: 3204467.6/39$

All: 189.950 ± 0.021 $\chi^2/\text{NDF}: 5900131.8/76$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733 $\pm$ 79.399 χ^2/NDF : 7.0/16

Left Out: 10.069 $\pm$ 54.520 χ^2/NDF : 3.9/20

Right Out: 12.094 $\pm$ 70.361 χ^2/NDF : 5.8/18

Left In: 28.138 $\pm$ 48.183 χ^2/NDF : 5.8/19

Left: 20.214 $\pm$ 36.104 χ^2/NDF : 9.8/40

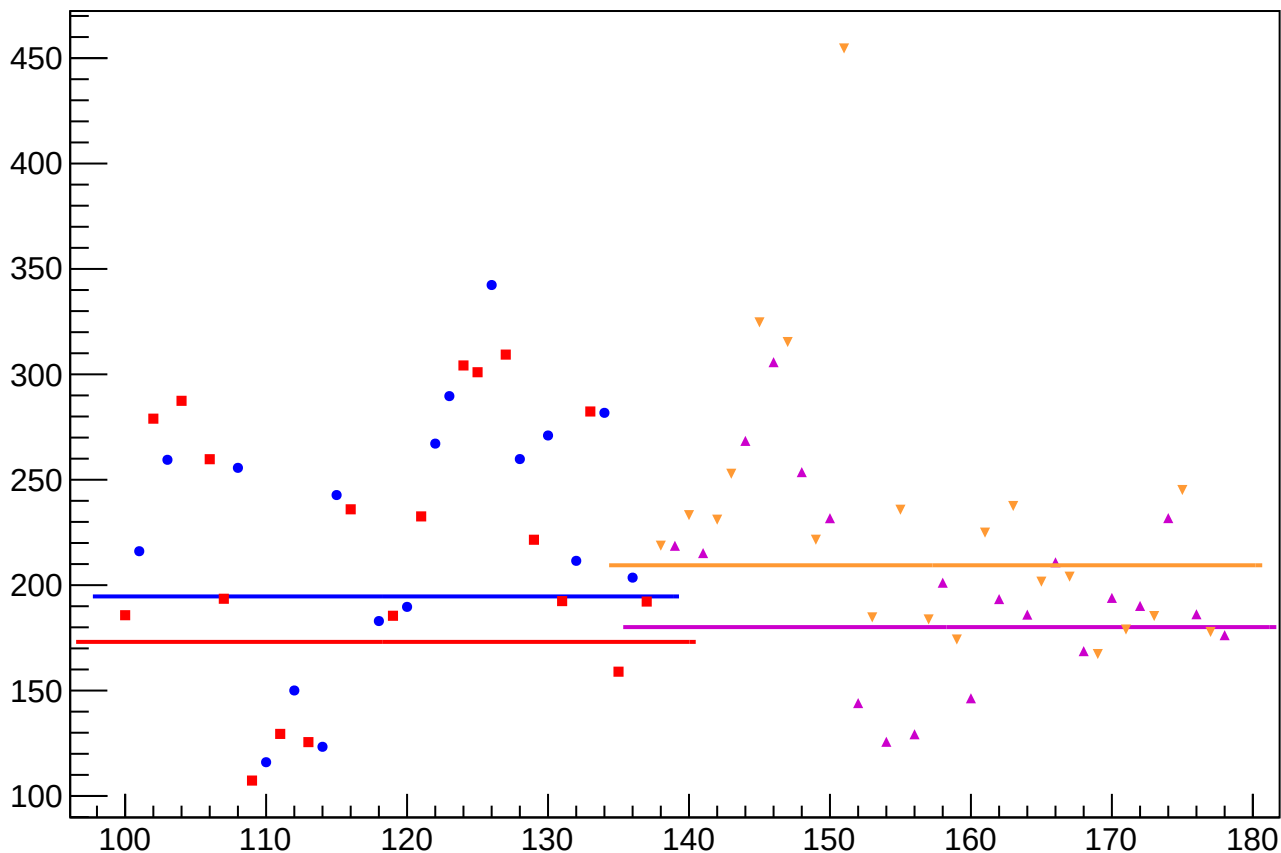
Right: 35.248 $\pm$ 52.659 χ^2/NDF : 13.1/35

In: 37.988 $\pm$ 41.192 χ^2/NDF : 13.0/36

Out: 10.829 $\pm$ 43.096 χ^2/NDF : 9.7/39

All: 25.021 $\pm$ 29.778 χ^2/NDF : 23.0/76

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 209.430 $\pm$ 0.039 χ^2 /NDF:1298254.7/20

Right Out: 173.089 $\pm$ 0.050 χ^2 /NDF: 1544540.9/18

Left In: 180.105 $\pm$ 0.034 χ^2 /NDF:1567933.0/19

Left: 192.966 $\pm$ 0.026 χ^2 /NDF: 3191062.8/40

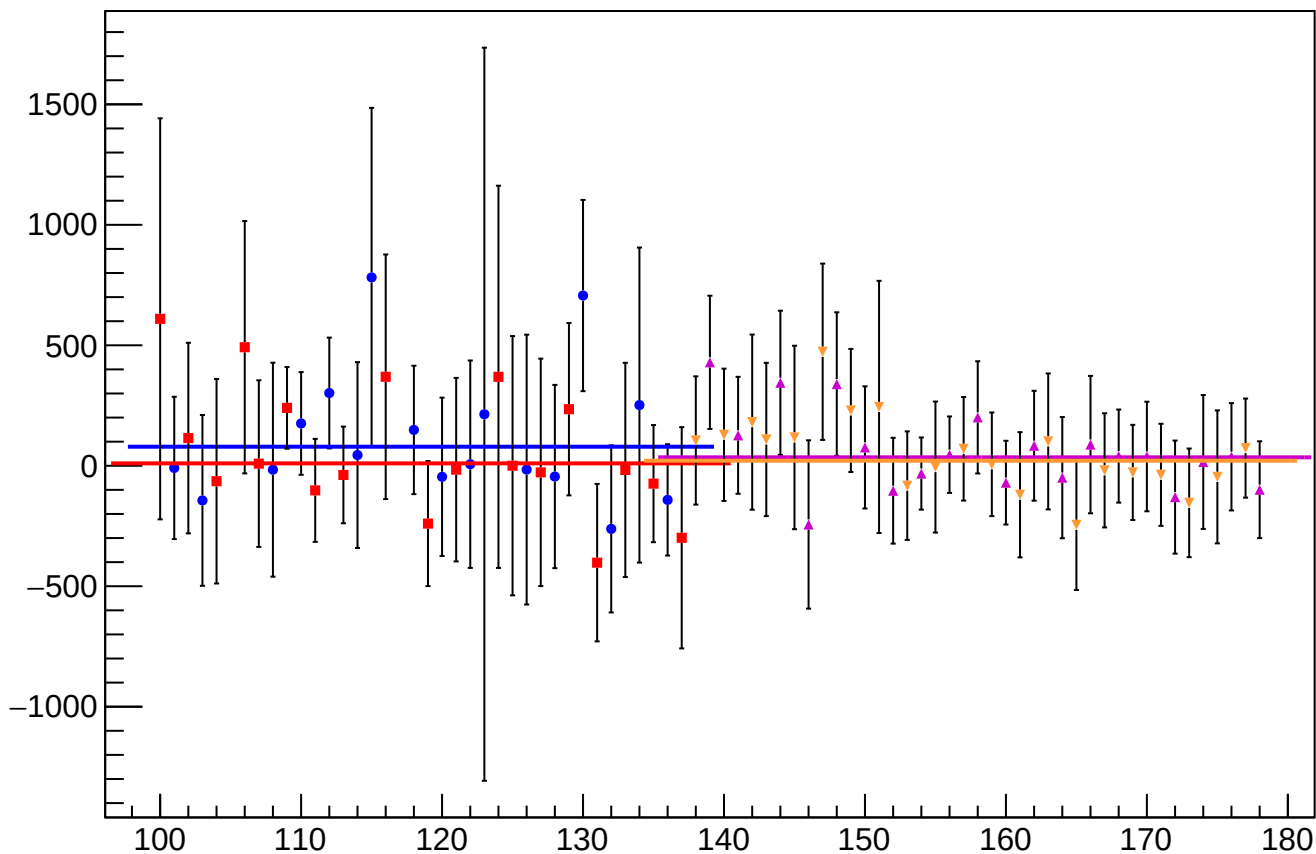
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 184.021 $\pm$ 0.029 χ^2 /NDF:2603793.5/36

Out: 195.796 $\pm$ 0.030 χ^2 /NDF:3176178.8/39

All: 189.643 $\pm$ 0.021 χ^2 /NDF: 5858008.3/76

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2 /NDF: 7.5/16

Left Out: 21.061 $\pm$ 56.077 χ^2 /NDF:5.5/20

Right Out: 9.982 $\pm$ 73.310 χ^2 /NDF: 7.9/18

Left In: 35.027 $\pm$ 49.851 χ^2 /NDF:7.6/19

Left: 28.862 $\pm$ 37.258 χ^2 /NDF: 13.1/40

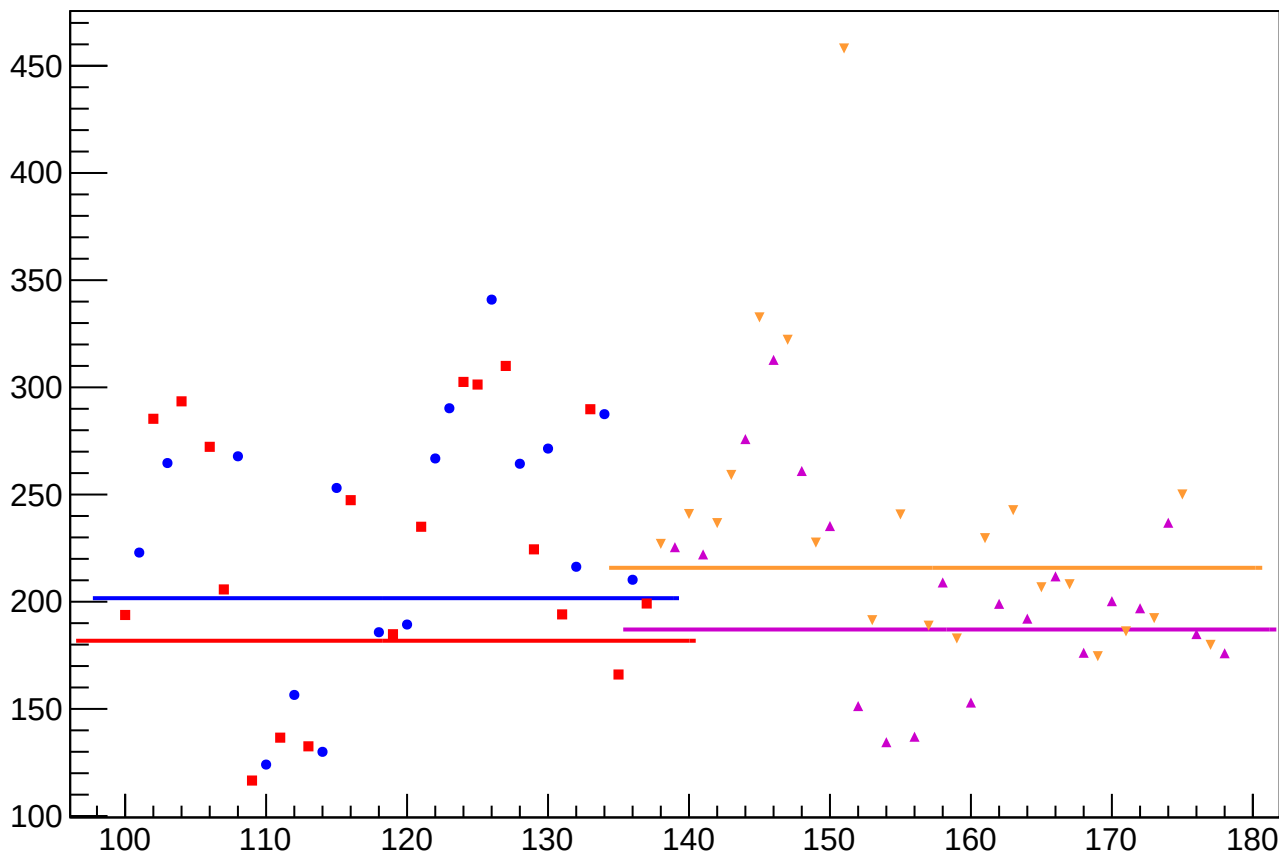
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 46.955 $\pm$ 42.579 χ^2 /NDF:15.3/36

Out: 16.971 $\pm$ 44.541 χ^2 /NDF:13.4/39

All: 32.638 $\pm$ 30.778 χ^2 /NDF: 28.9/76

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654 $\pm$ 0.058 χ^2 /NDF: 883179.7/16

Left Out: 215.822 $\pm$ 0.040 χ^2 /NDF:1241165.7/20

Right Out: 181.797 $\pm$ 0.052 χ^2 /NDF: 1377449.9/18

Left In: 187.045 $\pm$ 0.035 χ^2 /NDF:1412947.0/19

Left: 199.748 $\pm$ 0.026 χ^2 /NDF: 2948308.0/40

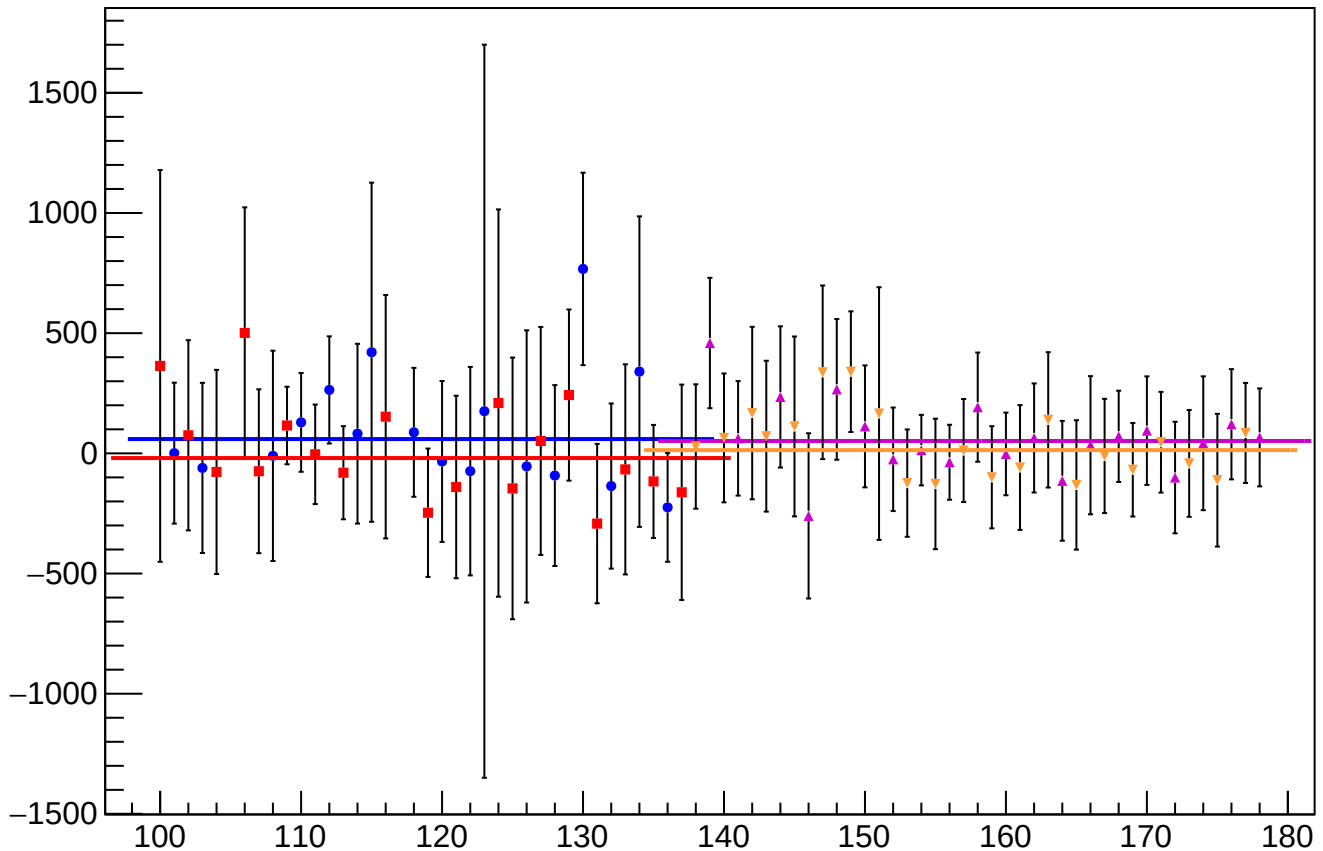
Right: 190.633 $\pm$ 0.039 χ^2 /NDF: 2325921.8/35

In: 190.996 $\pm$ 0.030 χ^2 /NDF:2342583.0/36

Out: 203.262 $\pm$ 0.031 χ^2 /NDF:2890402.8/39

All: 196.853 $\pm$ 0.022 χ^2 /NDF: 5312241.7/76

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 13.511 $\pm$ 55.624 χ^2 /NDF:5.0/20

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 51.518 $\pm$ 49.367 χ^2 /NDF:6.1/19

Left: 34.772 $\pm$ 36.923 χ^2 /NDF: 11.3/40

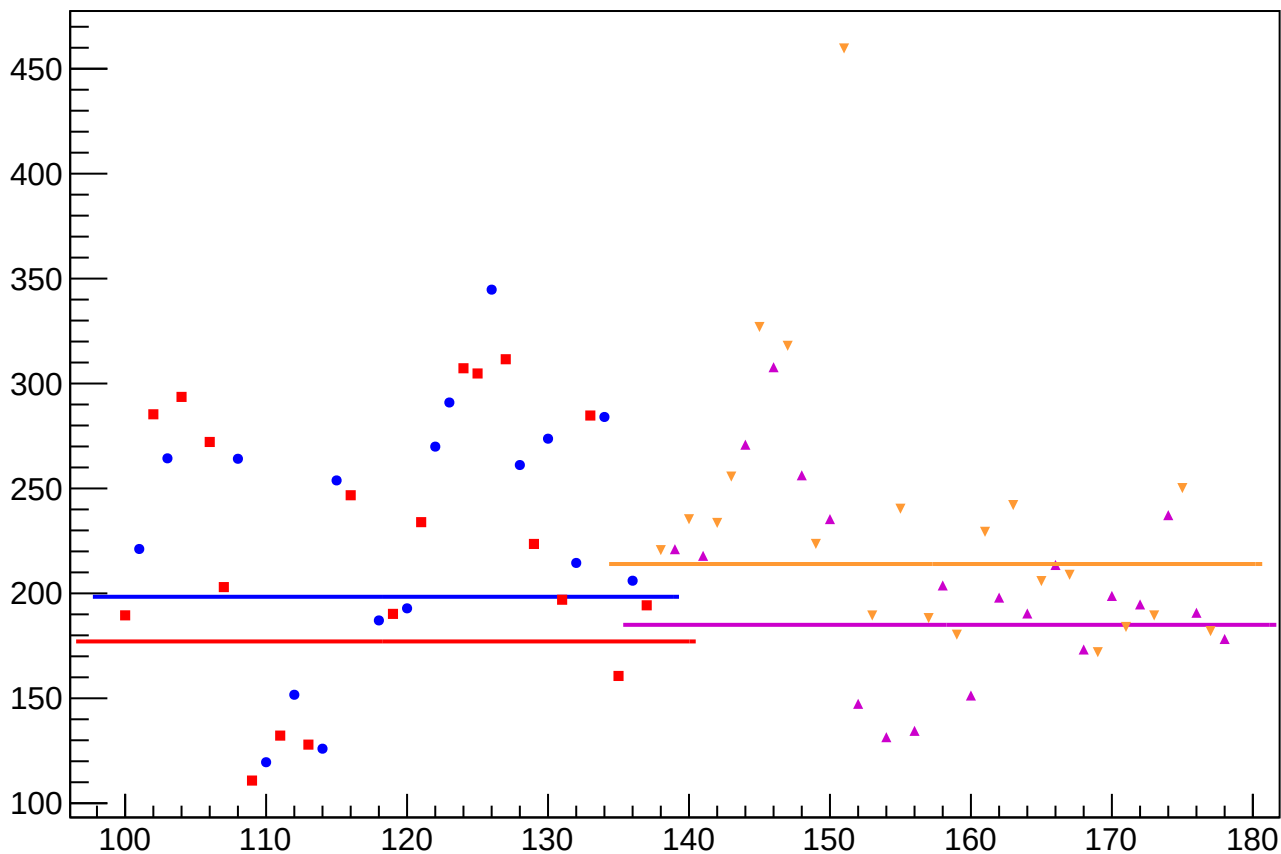
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 53.686 $\pm$ 42.128 χ^2 /NDF:13.1/36

Out: 1.129 $\pm$ 43.987 χ^2 /NDF:9.9/39

All: 28.542 $\pm$ 30.425 χ^2 /NDF: 23.7/76

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378 ± 0.057 χ^2/NDF : 963672.6/16

Left Out: 213.994 ± 0.039 χ^2/NDF : 1235175.3/20

Right Out: 177.096 ± 0.051 χ^2/NDF : 1524763.6/18

Left In: 185.011 ± 0.035 χ^2/NDF : 1443886.3/19

Left: 197.781 ± 0.026 χ^2/NDF : 2982793.2/40

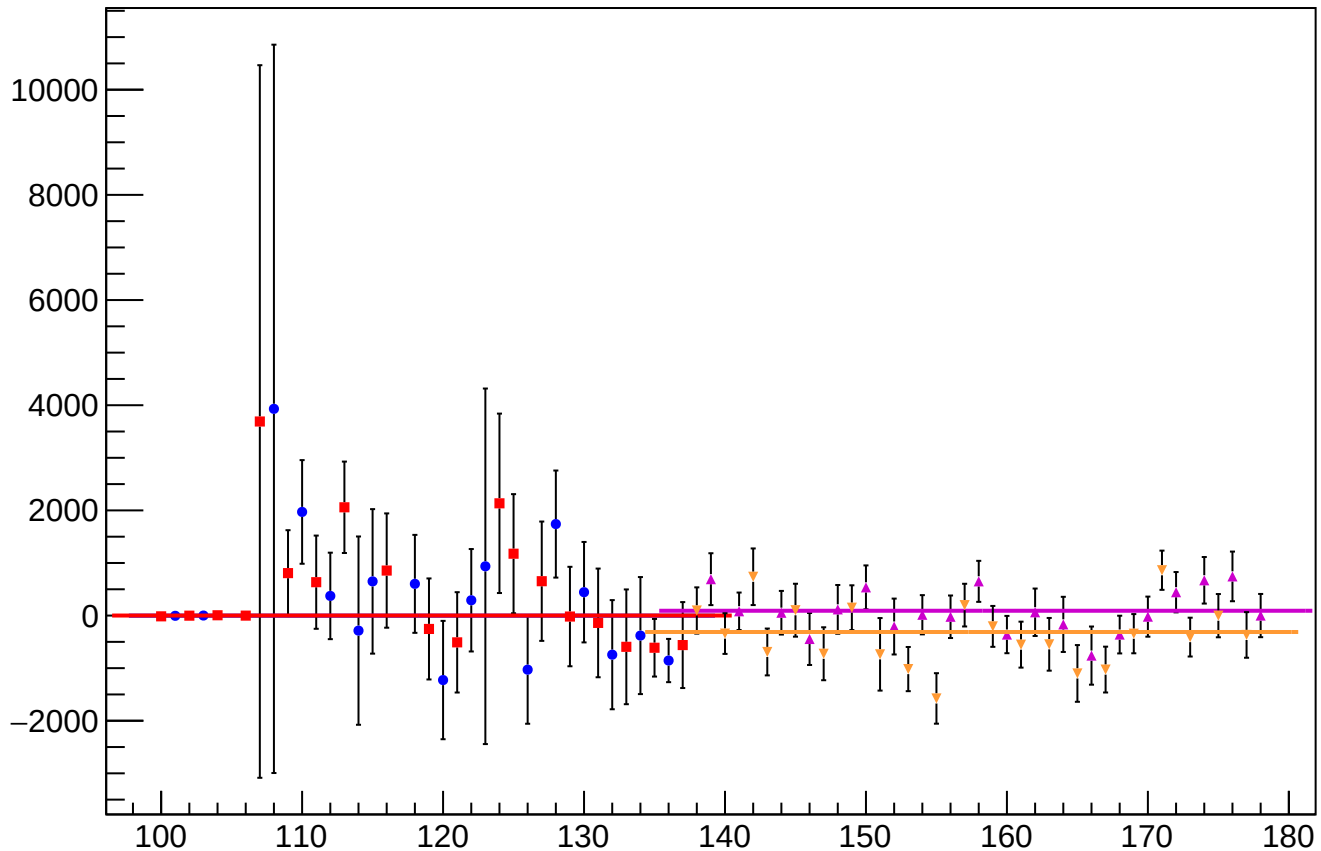
Right: 186.495 ± 0.038 χ^2/NDF : 2565896.1/35

In: 188.644 ± 0.030 χ^2/NDF : 2447410.4/36

Out: 200.171 ± 0.031 χ^2/NDF : 3089638.3/39

All: 194.159 ± 0.022 χ^2/NDF : 5608677.3/76

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529+/-2.251 χ^2/NDF : 17.0/16

Left Out: -312.349+/-95.588 χ^2/NDF : 35.7/20

Right Out: 0.727+/-2.111 χ^2/NDF : 19.3/18

Left In: 91.550+/-94.301 χ^2/NDF : 16.8/19

Left: -107.662+/-67.132 χ^2/NDF : 61.5/40

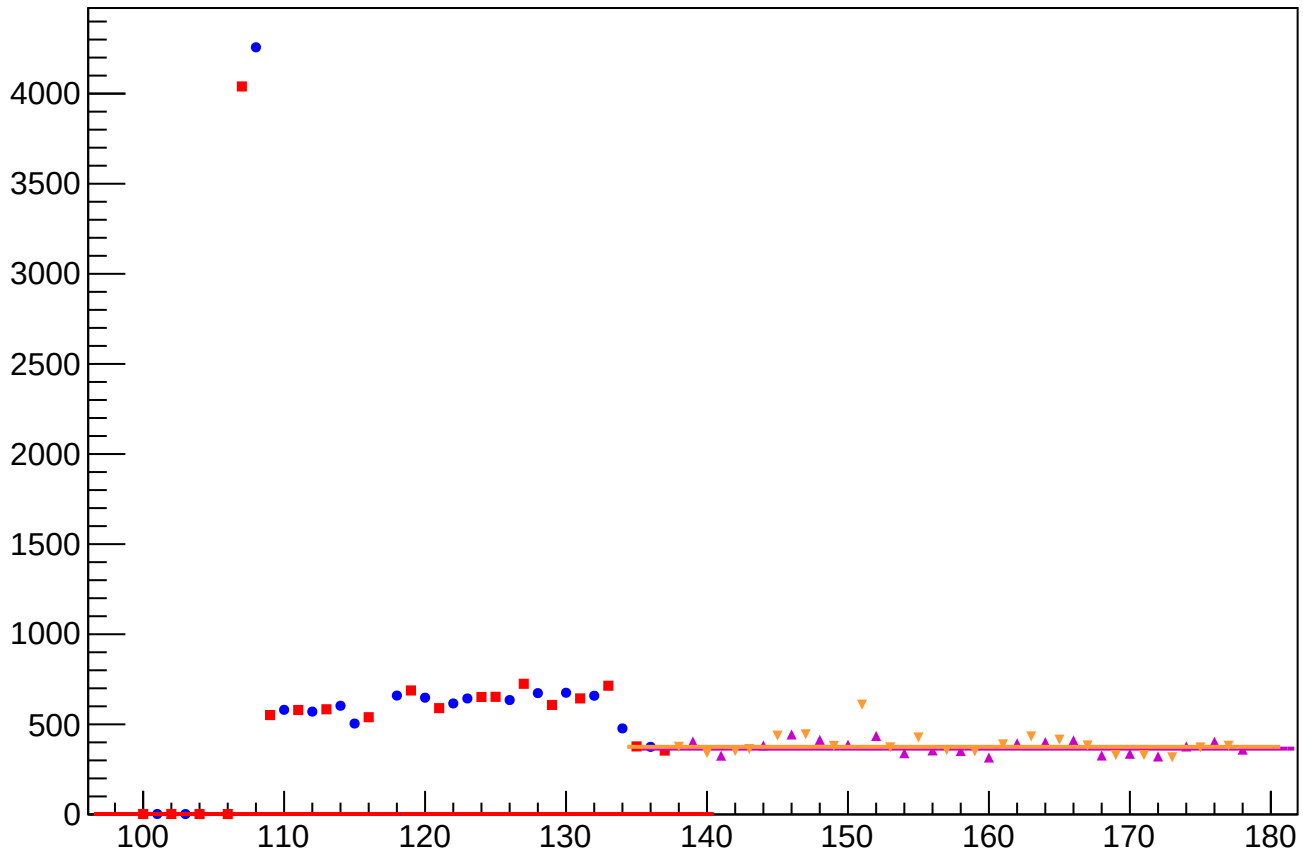
Right: -0.329+/-1.540 χ^2/NDF : 36.8/35

In: -1.476+/-2.251 χ^2/NDF : 34.7/36

Out: 0.574+/-2.111 χ^2/NDF : 65.7/39

All: -0.385+/-1.540 χ^2/NDF : 100.8/76

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457 $\pm$ 0.002 χ^2 /NDF: 10847802.4/16

Left Out: 375.308 $\pm$ 0.068 χ^2 /NDF: 505683.6/20

Right Out: 2.437 $\pm$ 0.001 χ^2 /NDF: 11147393.9/18

Left In: 365.283 $\pm$ 0.067 χ^2 /NDF: 311527.4/19

Left: 370.228 $\pm$ 0.047 χ^2 /NDF: 828358.4/40

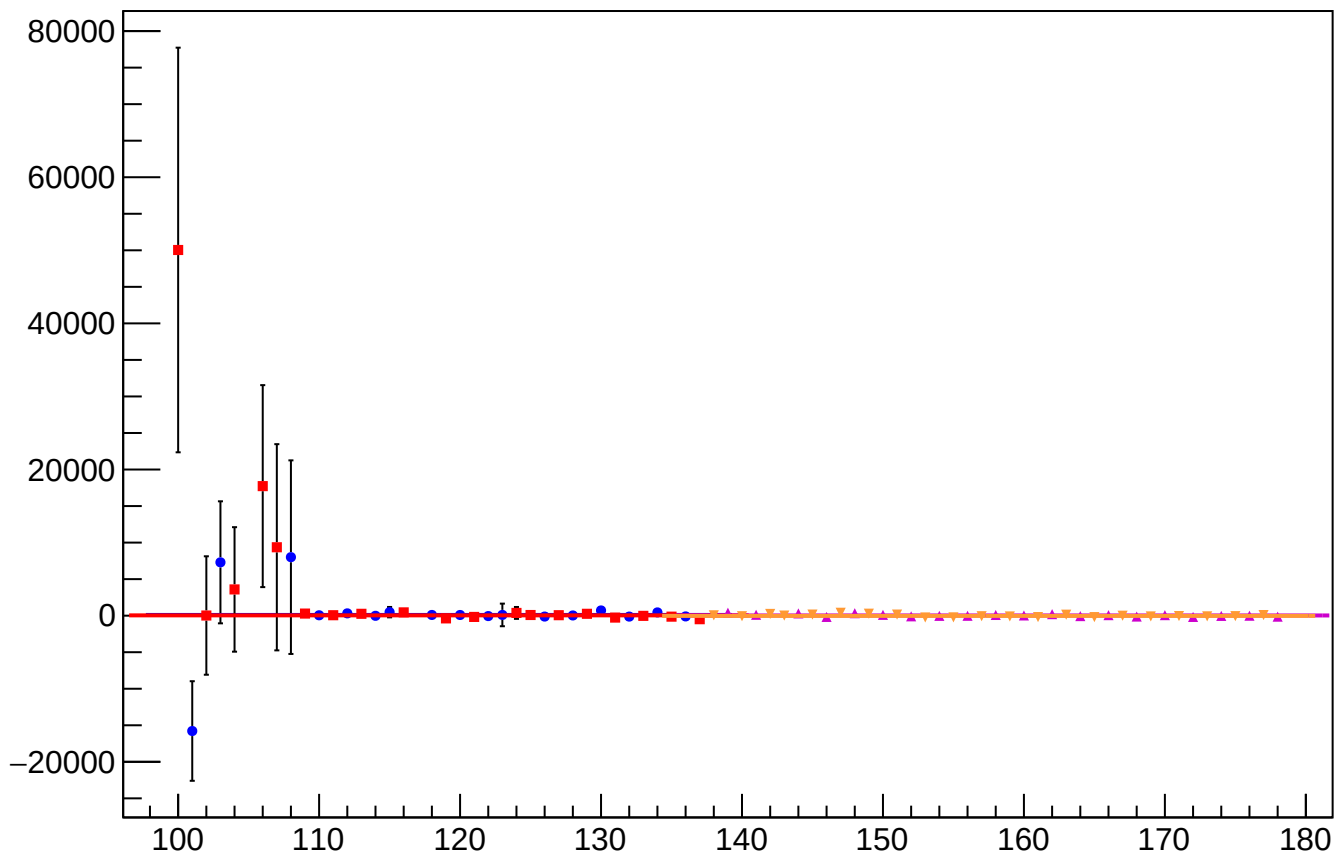
Right: 2.446 $\pm$ 0.001 χ^2 /NDF: 21995279.7/35

In: 2.663 $\pm$ 0.002 χ^2 /NDF: 40749345.3/36

Out: 2.619 $\pm$ 0.001 χ^2 /NDF: 42070678.0/39

All: 2.639 $\pm$ 0.001 χ^2 /NDF: 82820445.4/76

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643 $\pm$ 90.860 χ^2 /NDF: 11.9/16

Left Out: -29.124 $\pm$ 57.173 χ^2 /NDF:6.6/20

Right Out: 42.302 $\pm$ 84.496 χ^2 /NDF: 13.9/18

Left In: 29.350 $\pm$ 52.019 χ^2 /NDF:7.5/19

Left: 2.867 $\pm$ 38.476 χ^2 /NDF: 14.6/40

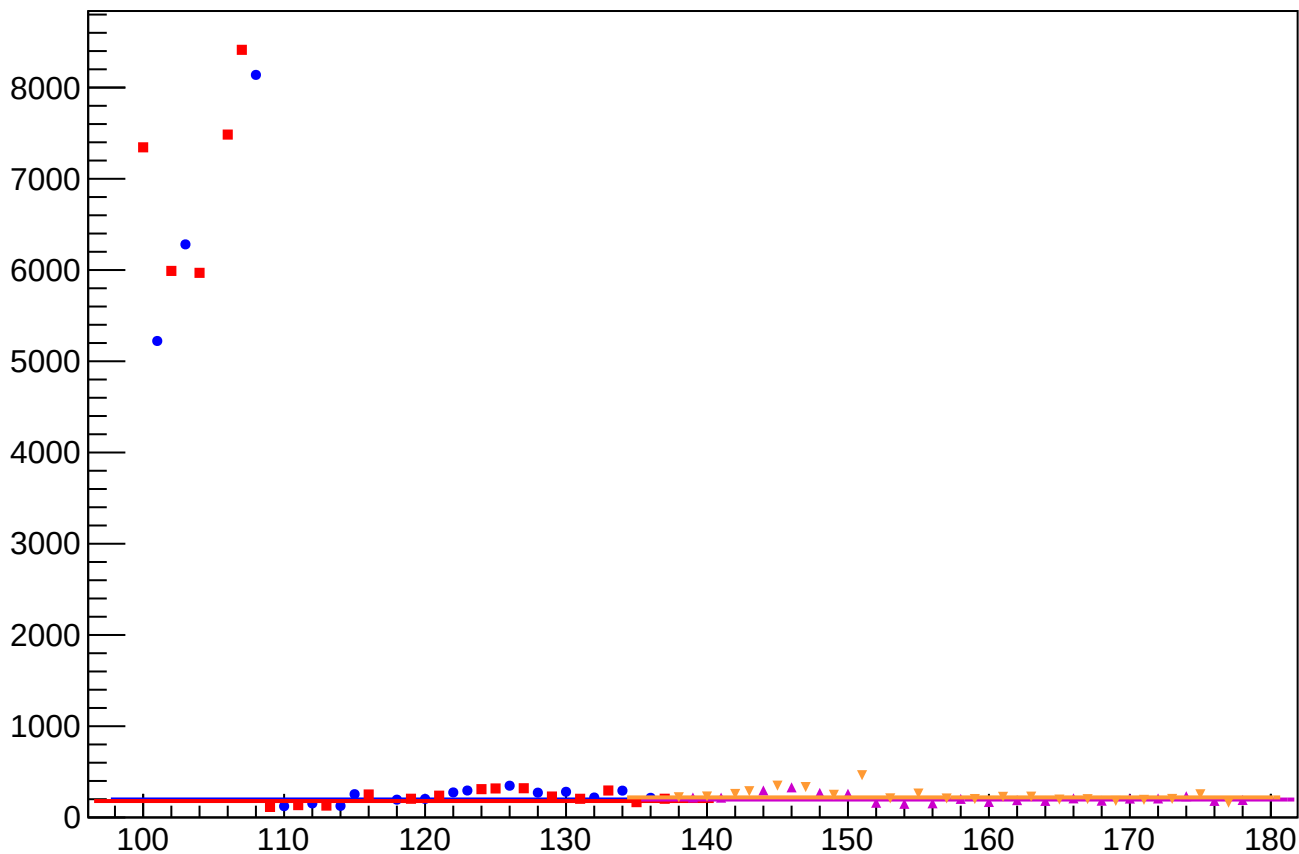
Right: 68.431 $\pm$ 61.875 χ^2 /NDF: 26.0/35

In: 46.456 $\pm$ 45.144 χ^2 /NDF:19.8/36

Out: -6.692 $\pm$ 47.352 χ^2 /NDF:21.0/39

All: 21.150 $\pm$ 32.674 χ^2 /NDF: 41.4/76

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 219.782+/-0.040 χ^2/NDF :1363283.4/20

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 196.322+/-0.037 χ^2/NDF :1124909.0/19

Left: 206.947+/-0.027 χ^2/NDF : 2672418.5/40

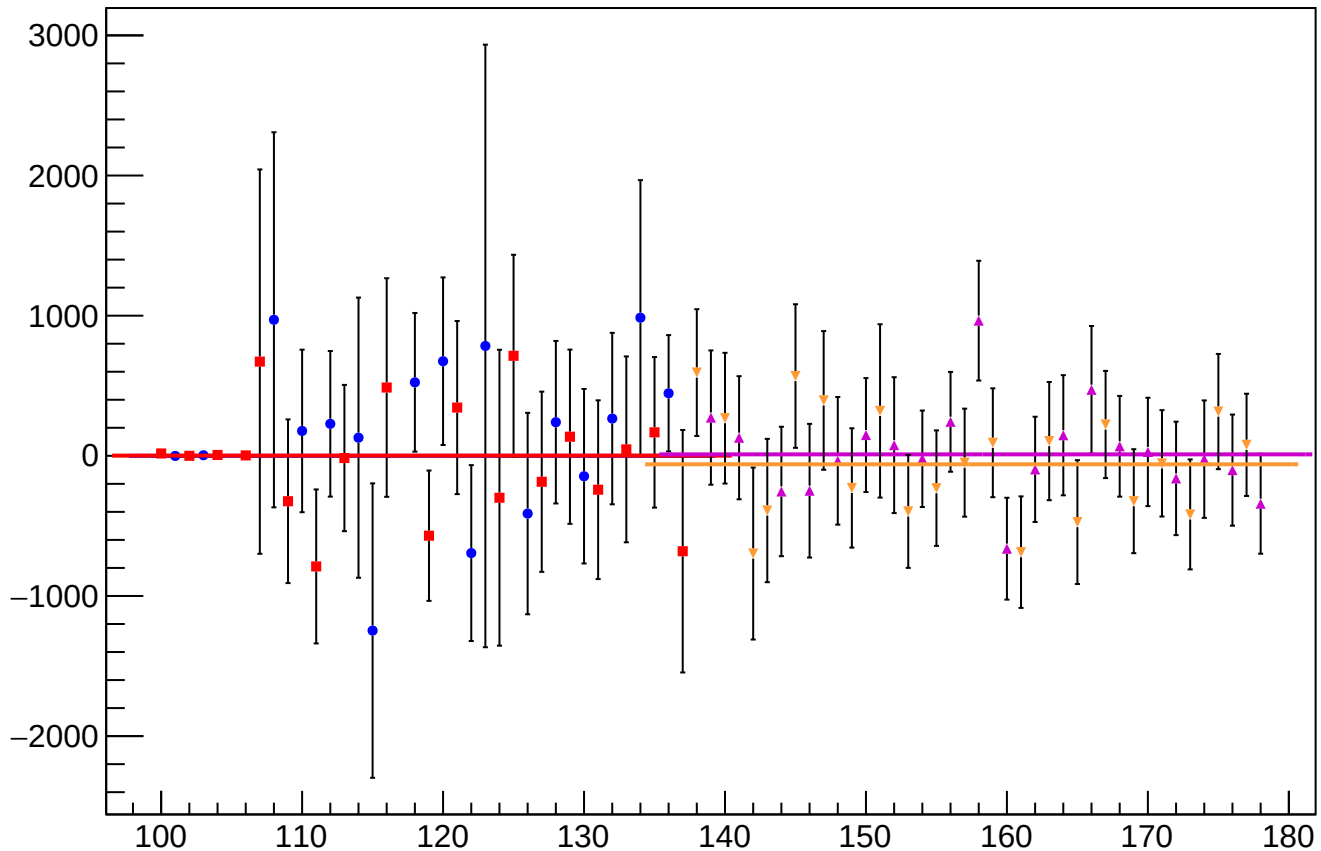
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.511+/-0.032 χ^2/NDF :4818629.2/36

Out: 207.272+/-0.033 χ^2/NDF :5989335.1/39

All: 201.635+/-0.023 χ^2/NDF : 10862079.4/76

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -60.555 ± 93.068 χ^2/NDF : 14.4/20

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 10.408 ± 90.927 χ^2/NDF : 12.5/19

Left: -24.248 ± 65.039 χ^2/NDF : 27.2/40

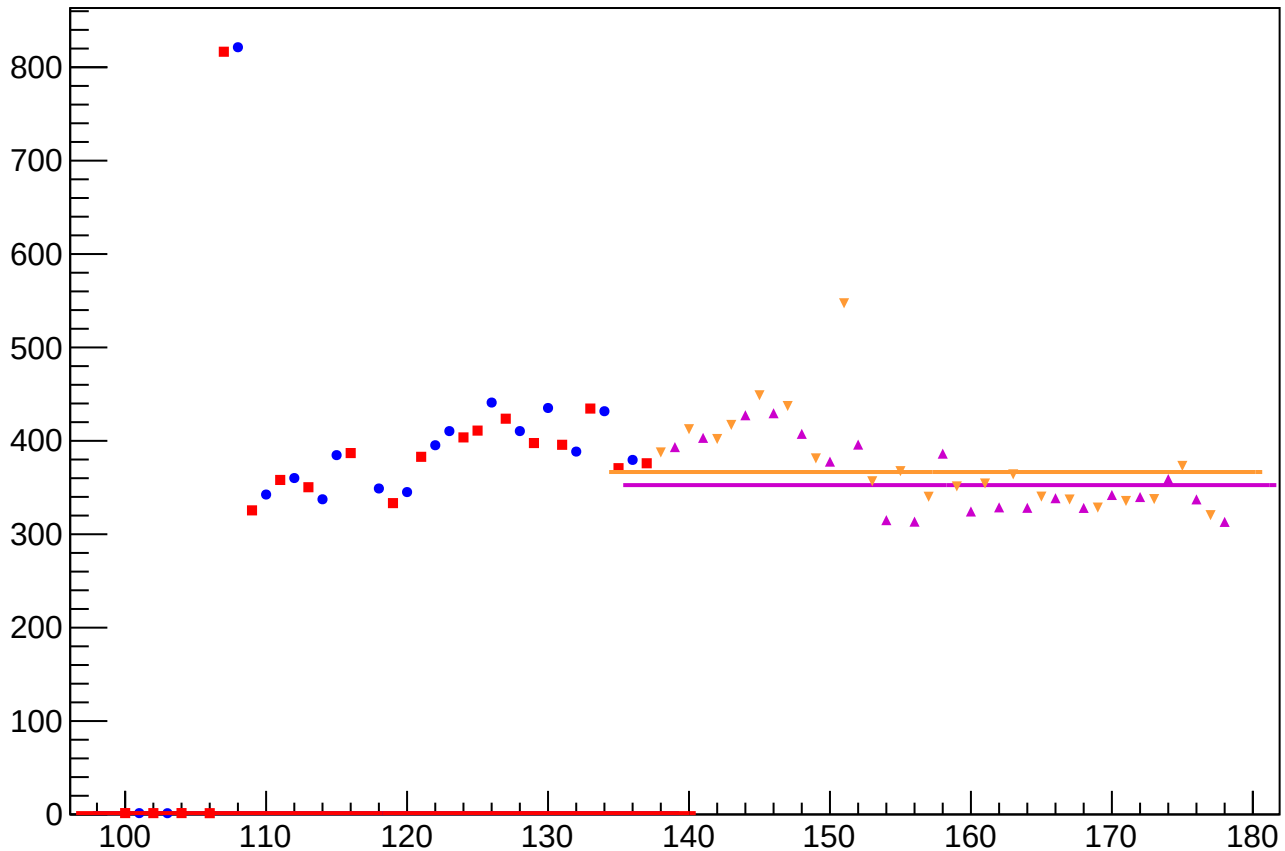
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.134 ± 1.736 χ^2/NDF : 22.2/36

Out: 1.305 ± 1.622 χ^2/NDF : 24.4/39

All: 0.634 ± 1.185 χ^2/NDF : 47.0/76

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453 $\pm$ 0.001 χ^2/NDF : 10957986.8/16

Left Out: 366.637 $\pm$ 0.066 χ^2/NDF : 427569.6/20

Right Out: 1.451 $\pm$ 0.001 χ^2/NDF : 10880737.7/18

Left In: 352.611 $\pm$ 0.064 χ^2/NDF : 327520.5/19

Left: 359.461 $\pm$ 0.046 χ^2/NDF : 778328.5/40

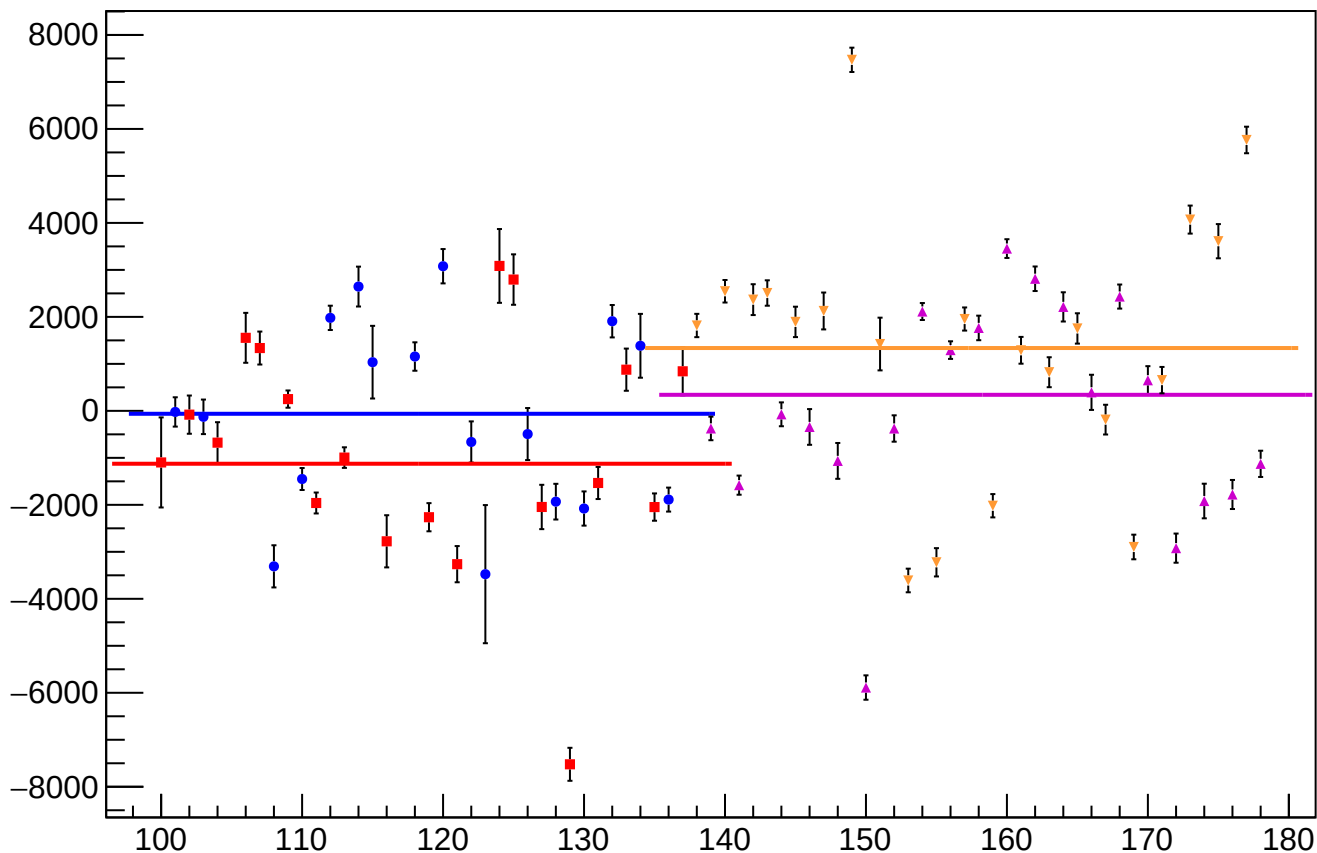
Right: 1.452 $\pm$ 0.001 χ^2/NDF : 21838725.6/35

In: 1.581 $\pm$ 0.001 χ^2/NDF : 41104739.7/36

Out: 1.562 $\pm$ 0.001 χ^2/NDF : 42092141.2/39

All: 1.571 $\pm$ 0.001 χ^2/NDF : 83197006.8/76

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 ± 87.424 χ^2/NDF : 433.9/16

Left Out: 1337.129 ± 63.158 χ^2/NDF : 2095.4/20

Right Out: -1125.437 ± 78.370 χ^2/NDF : 671.2/18

Left In: 341.450 ± 58.194 χ^2/NDF : 1511.6/19

Left: 798.633 ± 42.797 χ^2/NDF : 3741.4/40

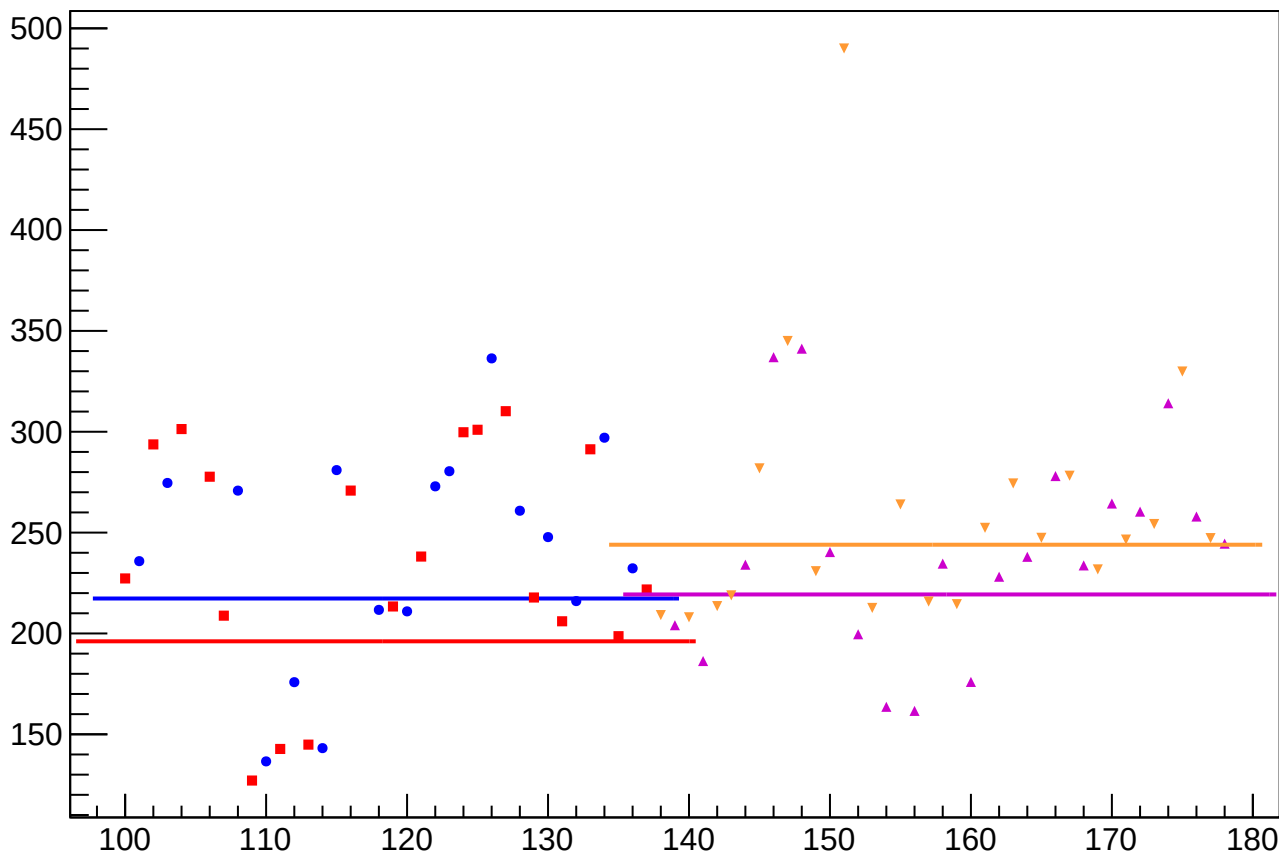
Right: -651.694 ± 58.355 χ^2/NDF : 1187.1/35

In: 217.520 ± 48.443 χ^2/NDF : 1960.3/36

Out: 367.504 ± 49.176 χ^2/NDF : 3365.3/39

All: 291.386 ± 34.511 χ^2/NDF : 5330.2/76

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330+/-0.062 χ^2/NDF : 652722.5/16

Left Out: 243.993+/-0.045 χ^2/NDF : 925015.7/20

Right Out: 196.105+/-0.055 χ^2/NDF : 1190733.6/18

Left In: 219.339+/-0.041 χ^2/NDF : 1291479.6/19

Left: 230.659+/-0.030 χ^2/NDF : 2381316.0/40

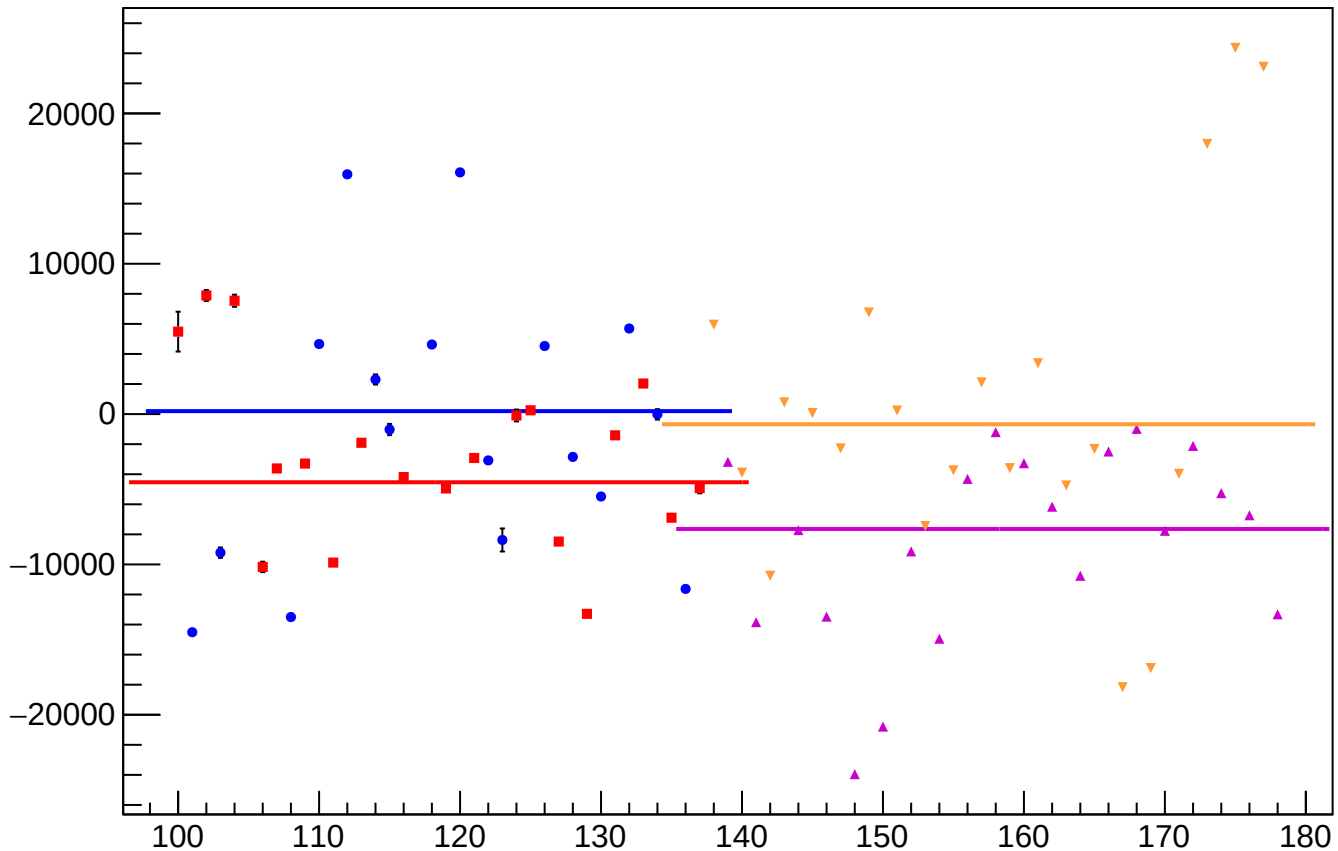
Right: 205.562+/-0.041 χ^2/NDF : 1908816.5/35

In: 218.722+/-0.034 χ^2/NDF : 1944933.8/36

Out: 225.137+/-0.035 χ^2/NDF : 2568472.3/39

All: 221.881+/-0.024 χ^2/NDF : 4530680.3/76

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -679.019 ± 44.315 $\chi^2/\text{NDF}: 52869.3/20$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7641.492 ± 45.723 $\chi^2/\text{NDF}: 17736.2/19$

Left: -4051.381 ± 31.822 $\chi^2/\text{NDF}: 82561.9/40$

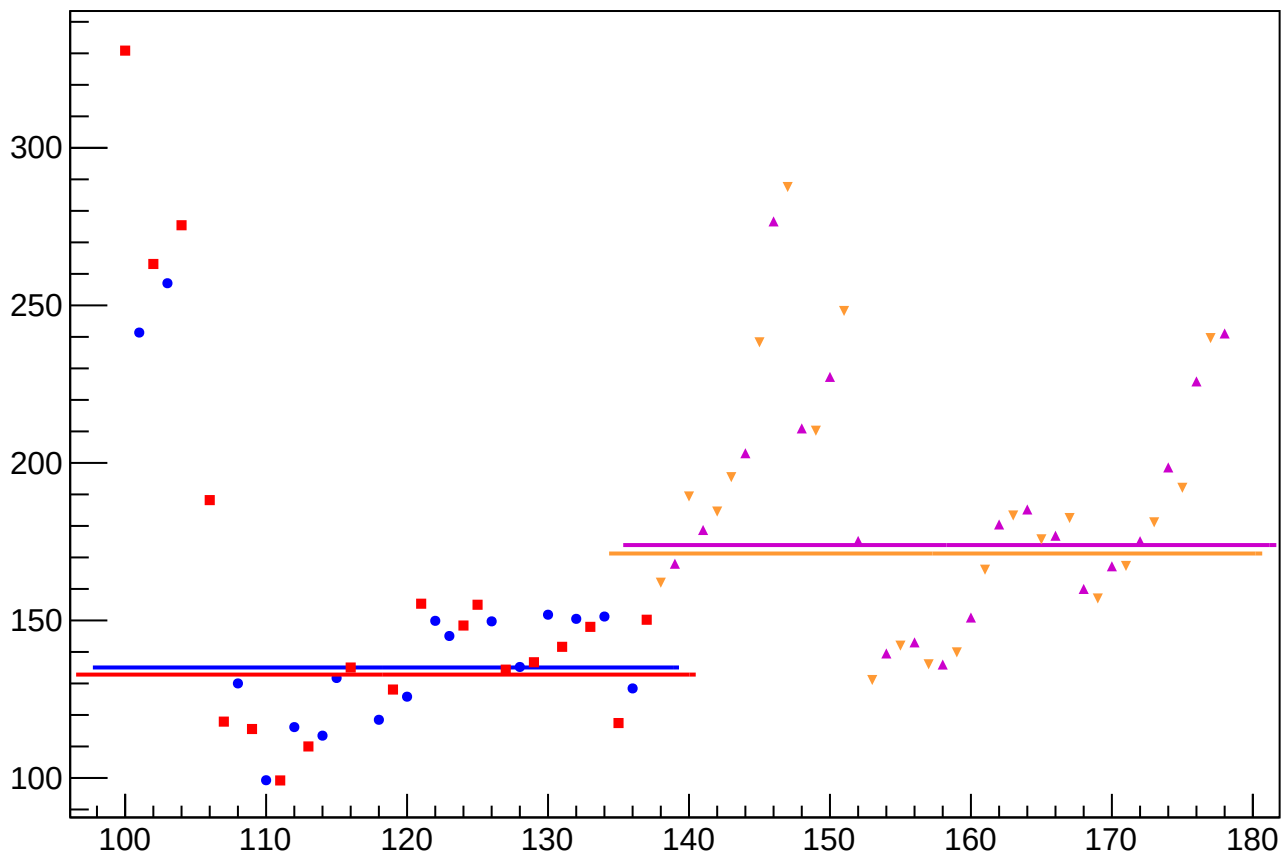
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4424.207 ± 35.107 $\chi^2/\text{NDF}: 60457.3/36$

Out: -2284.355 ± 33.853 $\chi^2/\text{NDF}: 63498.0/39$

All: -3315.387 ± 24.369 $\chi^2/\text{NDF}: 125880.4/7$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 171.246 $\pm$ 0.031 χ^2 /NDF: 1181064.4/20

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 173.928 $\pm$ 0.032 χ^2 /NDF: 977401.3/19

Left: 172.545 $\pm$ 0.023 χ^2 /NDF: 2162014.3/40

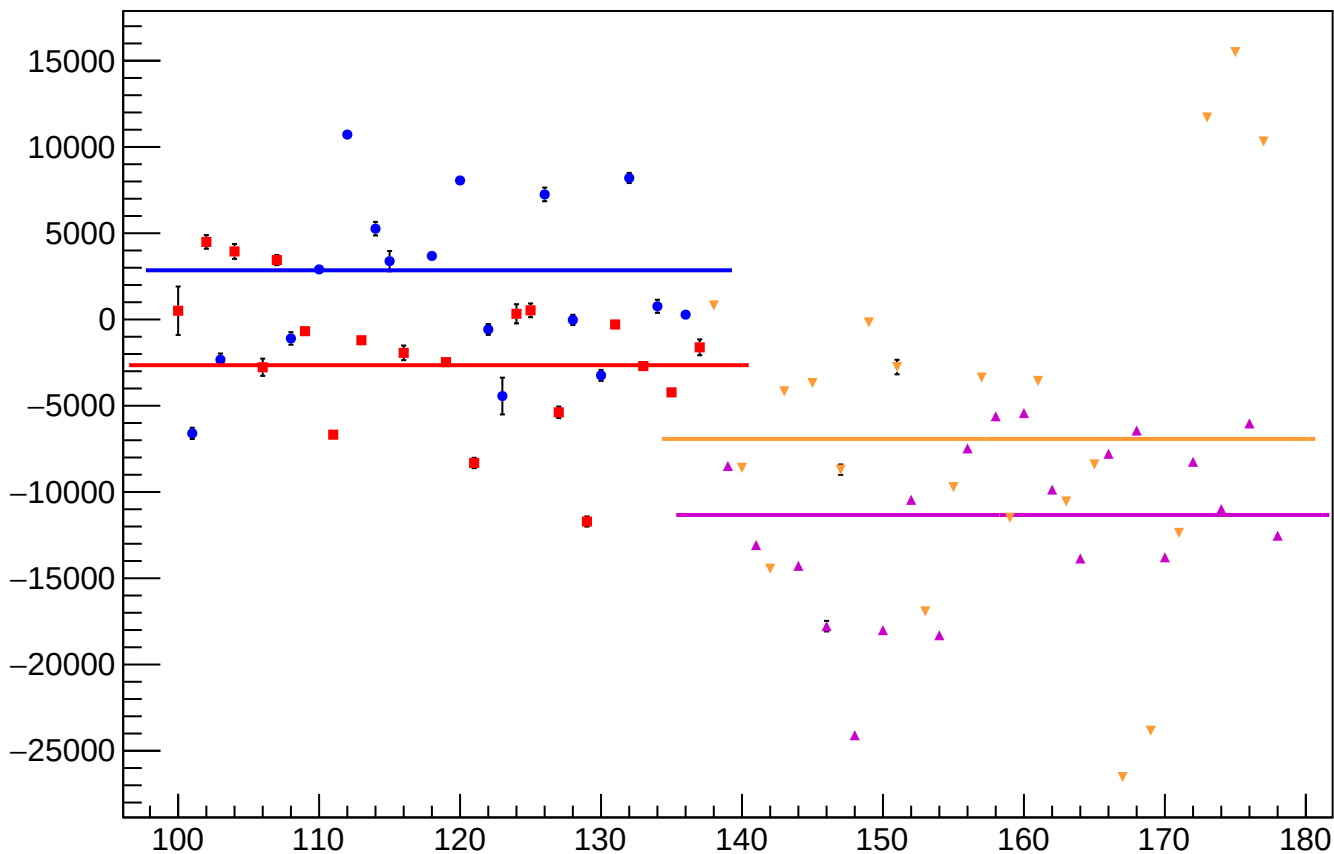
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 157.980 $\pm$ 0.025 χ^2 /NDF: 2228940.1/36

Out: 155.243 $\pm$ 0.024 χ^2 /NDF: 2638559.4/39

All: 156.562 $\pm$ 0.017 χ^2 /NDF: 4873794.8/76

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -6923.044+/-49.472 χ^2/NDF :44540.6/20

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11329.195+/-46.225 χ^2/NDF :11325.5/19

Left: -9275.431+/-33.776 χ^2/NDF : 60101.1/40

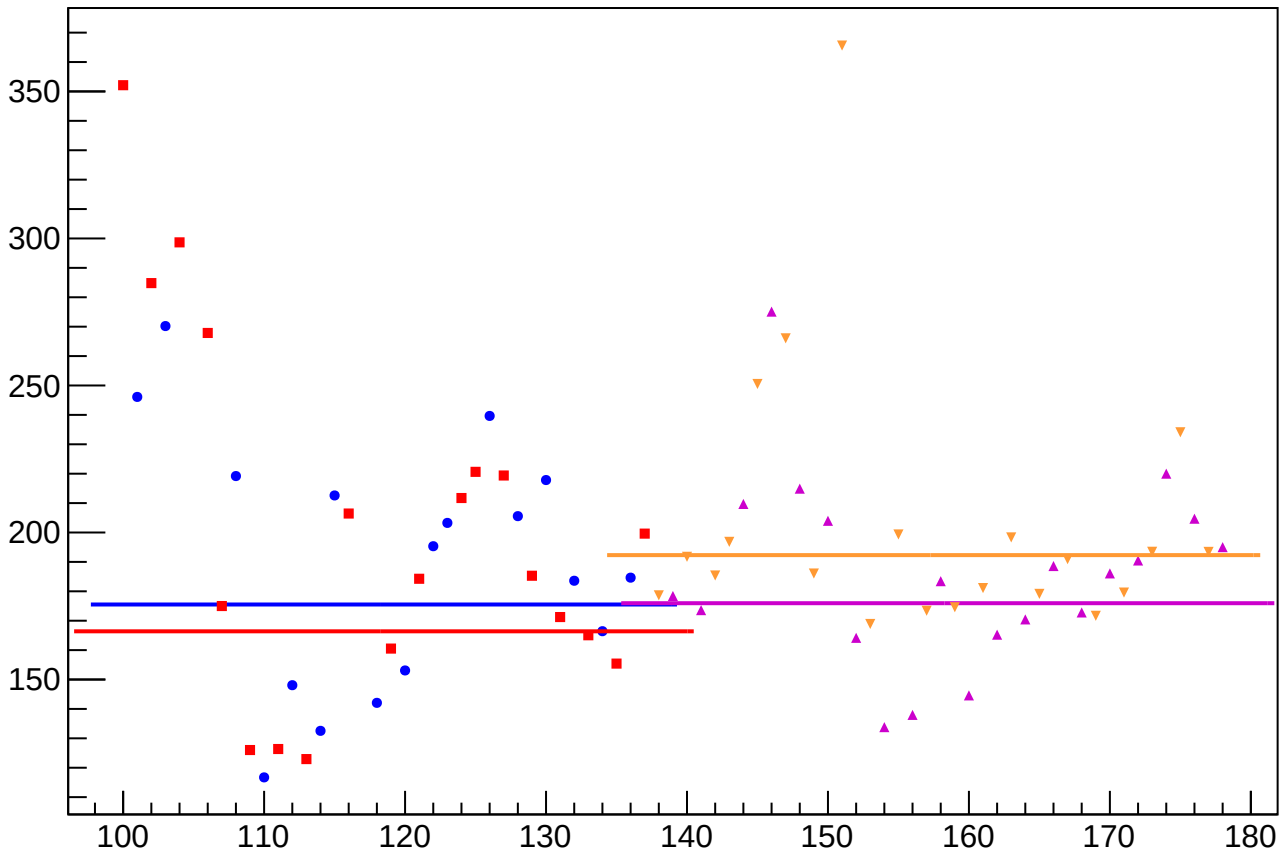
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -7087.079+/-38.698 χ^2/NDF :43656.5/36

Out: -5377.511+/-39.527 χ^2/NDF :50415.2/39

All: -6250.410+/-27.652 χ^2/NDF : 95026.9/76

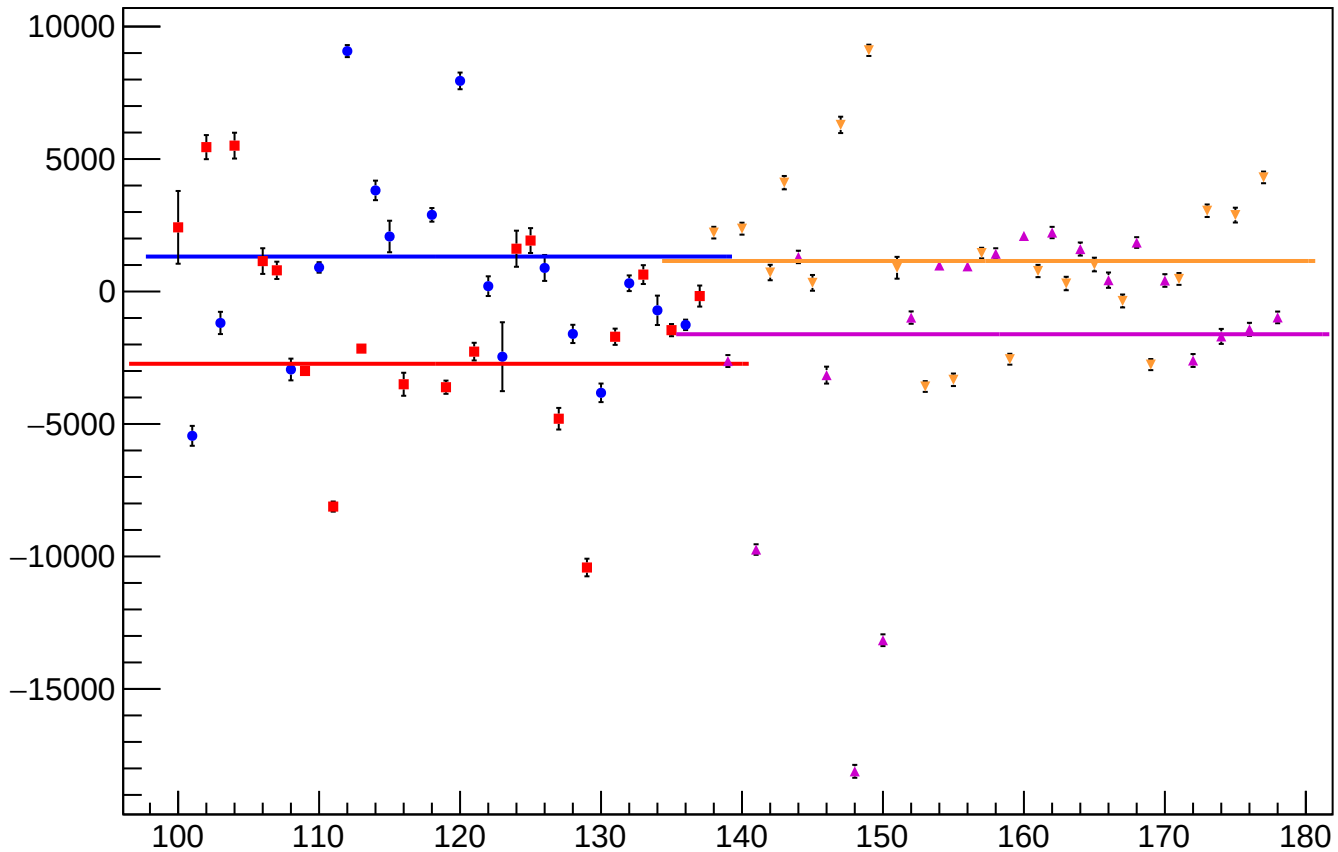
asym_bpm0i02aWS_rms vs Slug, Sign Corrected



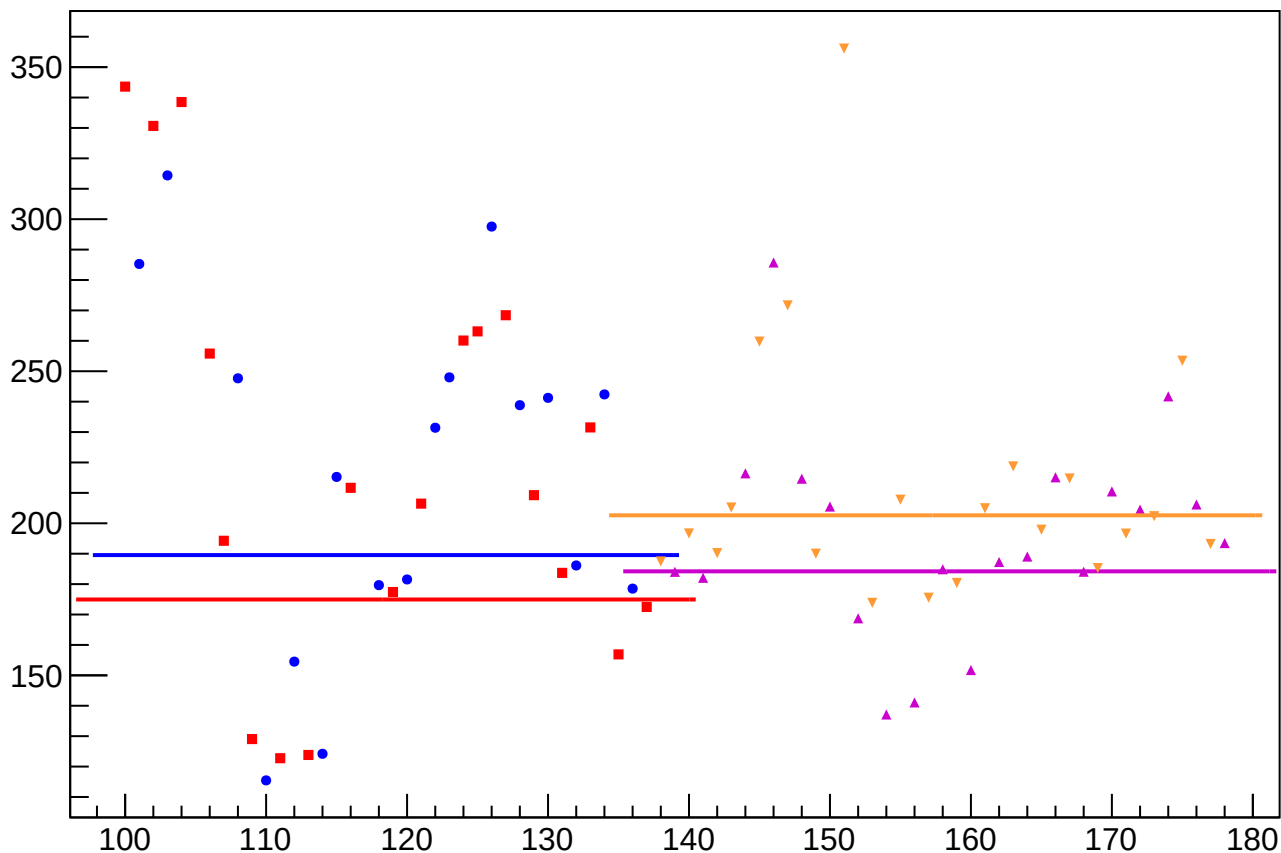
Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16
 Left Out: 192.308+/-0.035 χ^2/NDF : 711123.1/20
 Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18
 Left In: 175.955+/-0.033 χ^2/NDF : 822884.2/19

Left: 183.577+/-0.024 χ^2/NDF : 1650666.7/40
 Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35
 In: 175.823+/-0.027 χ^2/NDF : 1512580.9/36
 Out: 182.936+/-0.028 χ^2/NDF : 1839112.6/39
 All: 179.304+/-0.020 χ^2/NDF : 3384761.4/76

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 202.623+/-0.037 χ^2/NDF : 672848.7/20

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 184.200+/-0.034 χ^2/NDF : 867643.5/19

Left: 192.746+/-0.025 χ^2/NDF : 1674556.4/40

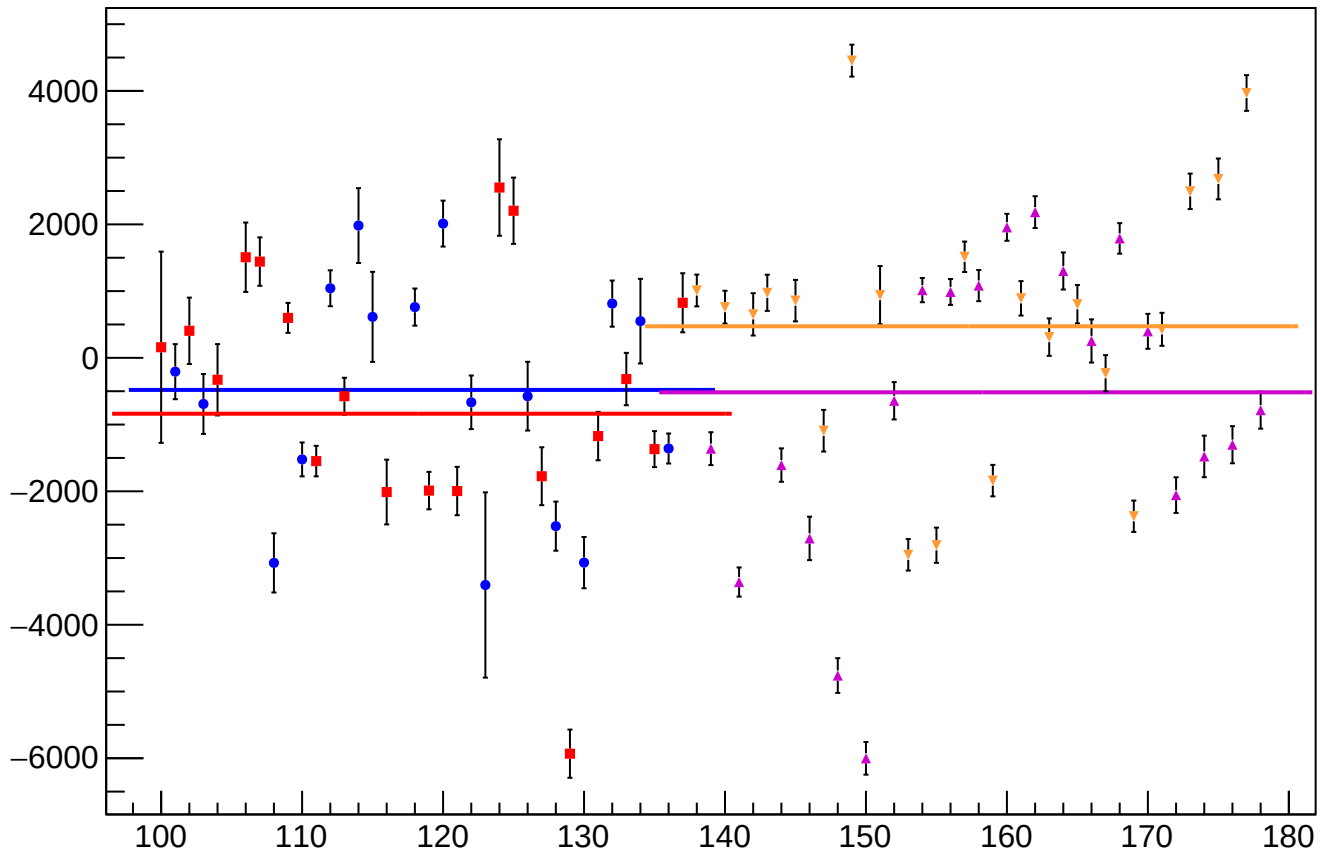
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 185.713+/-0.029 χ^2/NDF : 1855270.1/36

Out: 192.761+/-0.030 χ^2/NDF : 2171079.1/39

All: 189.172+/-0.021 χ^2/NDF : 4055303.6/76

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 472.752±/58.004 χ^2/NDF :1234.5/20

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -516.322±/54.969 χ^2/NDF :1682.9/19

Left: -48.335±/39.899 χ^2/NDF : 3070.5/40

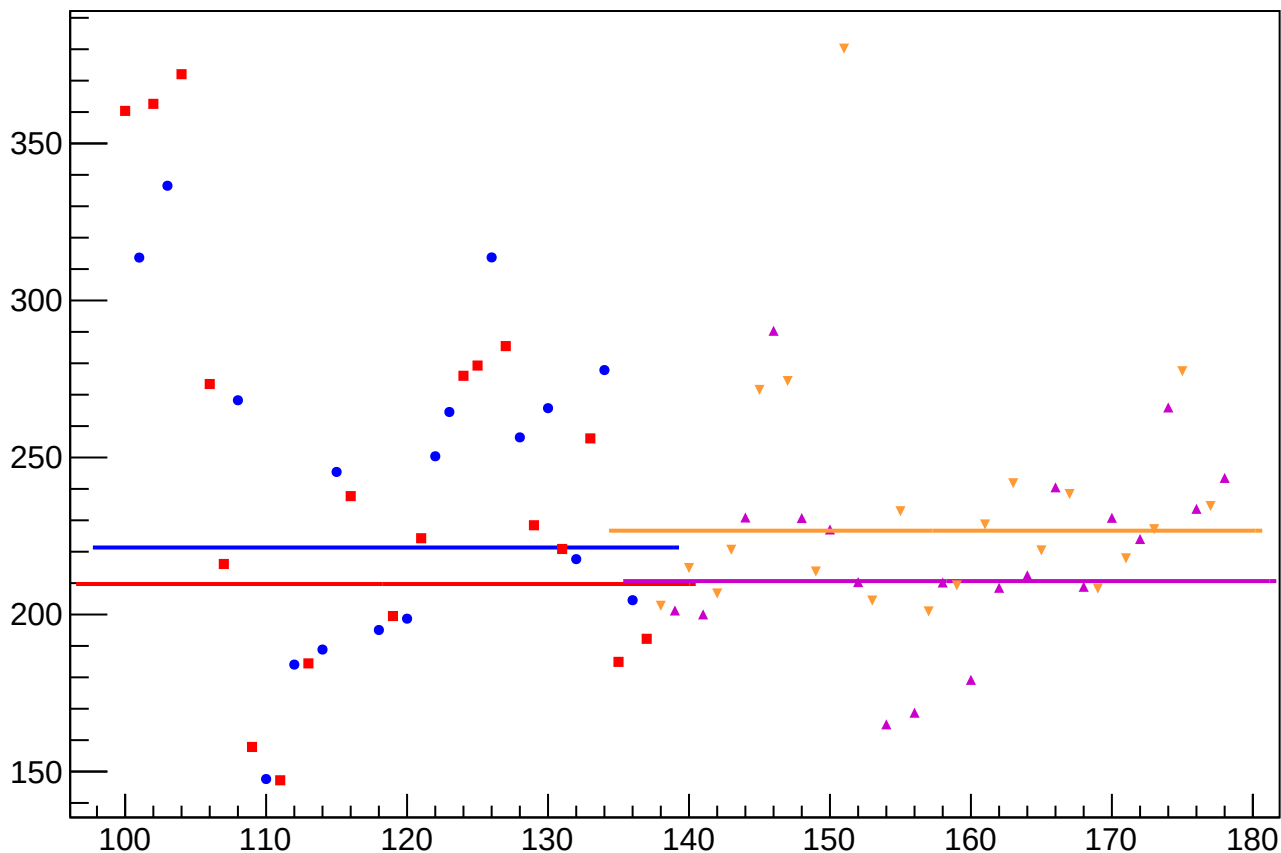
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -506.394±/46.716 χ^2/NDF :1973.7/36

Out: 37.529±/47.401 χ^2/NDF :1839.2/39

All: -238.393±/33.273 χ^2/NDF : 3879.8/76

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342+/-0.063 χ^2/NDF : 645688.1/16

Left Out: 226.699+/-0.041 χ^2/NDF : 512754.4/20

Right Out: 209.717+/-0.058 χ^2/NDF : 883917.7/18

Left In: 210.646+/-0.039 χ^2/NDF : 569089.0/19

Left: 218.241+/-0.028 χ^2/NDF : 1162542.8/40

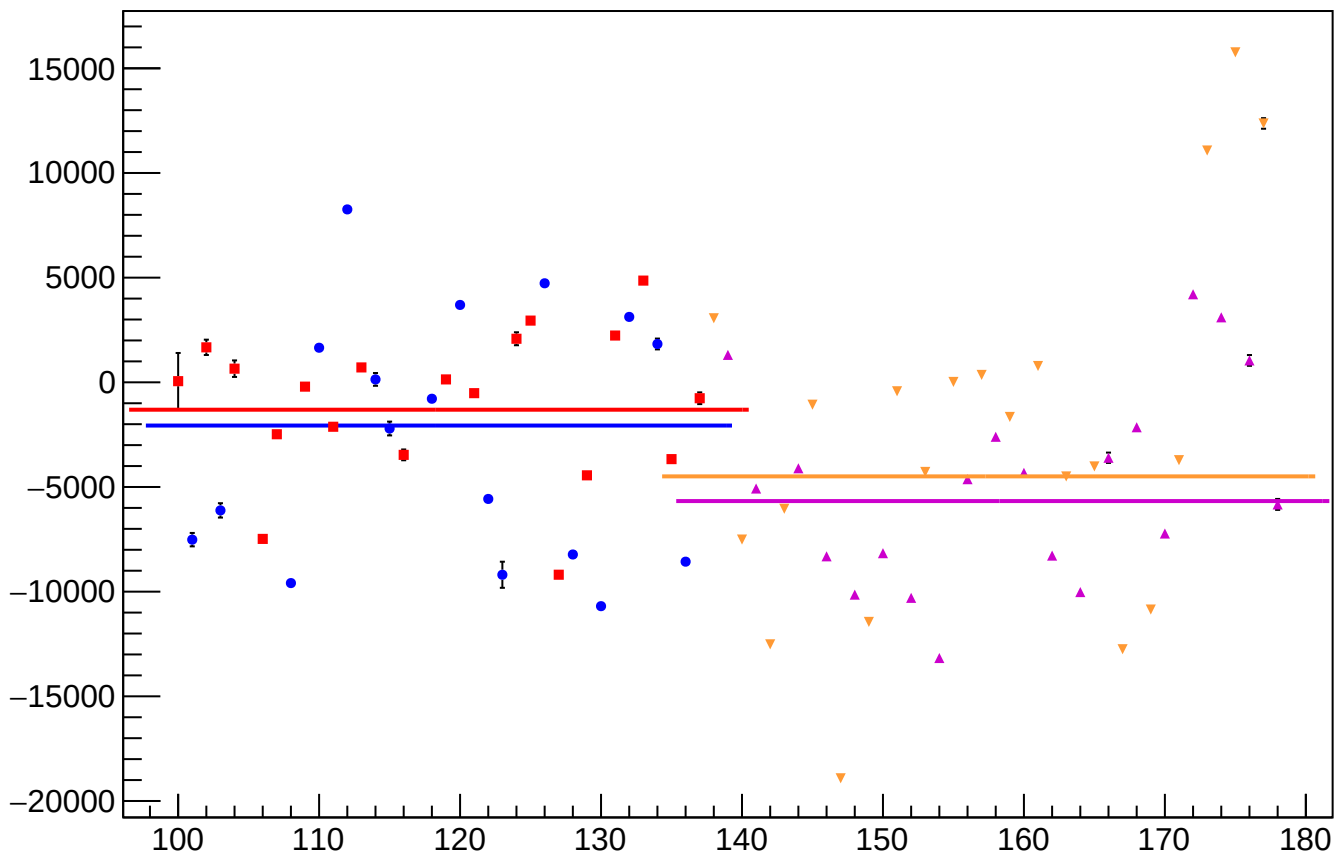
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 213.617+/-0.033 χ^2/NDF : 1235809.3/36

Out: 221.057+/-0.034 χ^2/NDF : 1453618.5/39

All: 217.283+/-0.024 χ^2/NDF : 2714425.1/76

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -4493.111 $\pm$ 34.797 χ^2/NDF : 49444.5/20

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -5672.812 $\pm$ 35.753 χ^2/NDF : 14090.8/19

Left: -5066.981 $\pm$ 24.936 χ^2/NDF : 64094.5/40

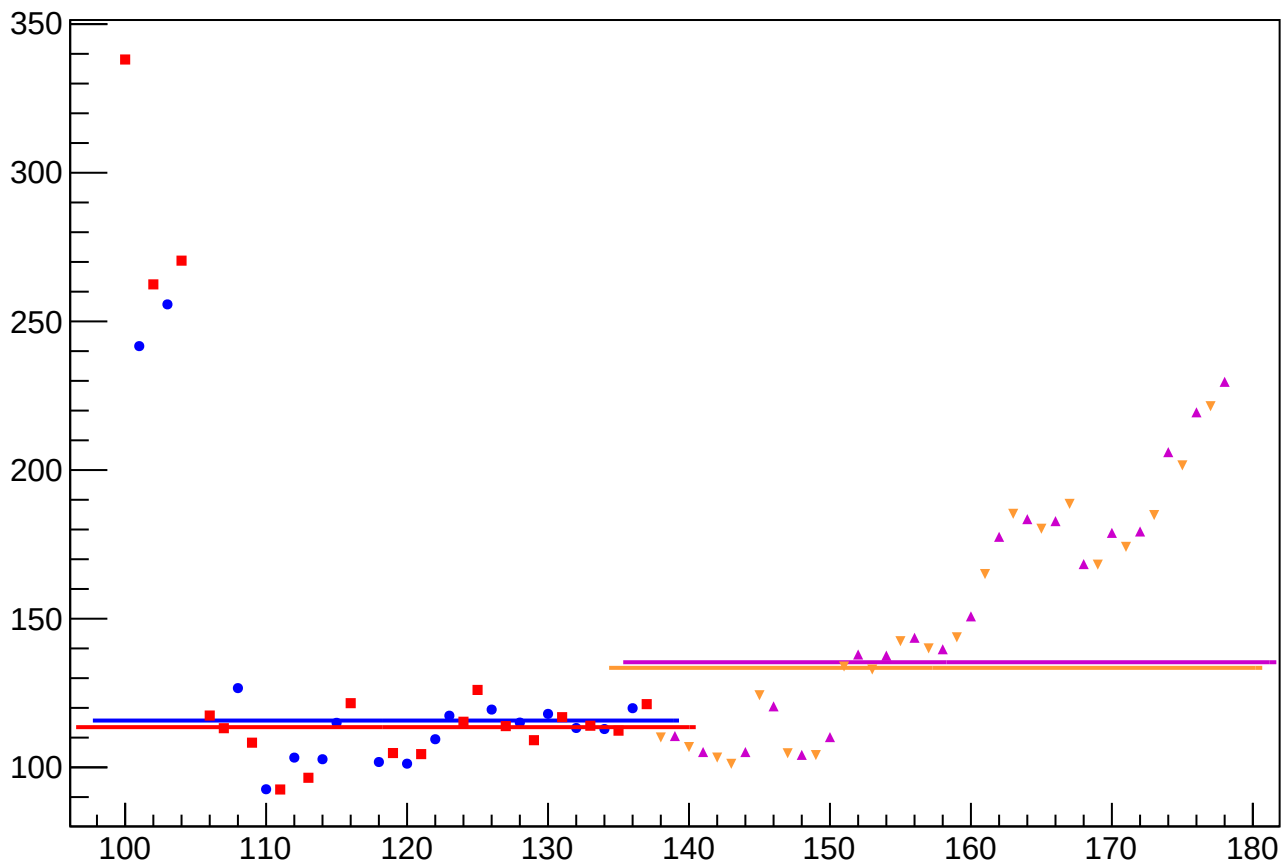
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4361.842 $\pm$ 28.526 χ^2/NDF : 34324.1/36

Out: -3301.488 $\pm$ 27.527 χ^2/NDF : 58473.0/39

All: -3812.771 $\pm$ 19.809 χ^2/NDF : 93512.5/76

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 ± 0.033 $\chi^2/\text{NDF}: 744017.7/16$

Left Out: 133.469 ± 0.025 $\chi^2/\text{NDF}: 1708605.7/20$

Right Out: 113.519 ± 0.032 $\chi^2/\text{NDF}: 796640.6/18$

Left In: 135.355 ± 0.025 $\chi^2/\text{NDF}: 1743908.8/19$

Left: 134.387 ± 0.018 $\chi^2/\text{NDF}: 3455372.9/40$

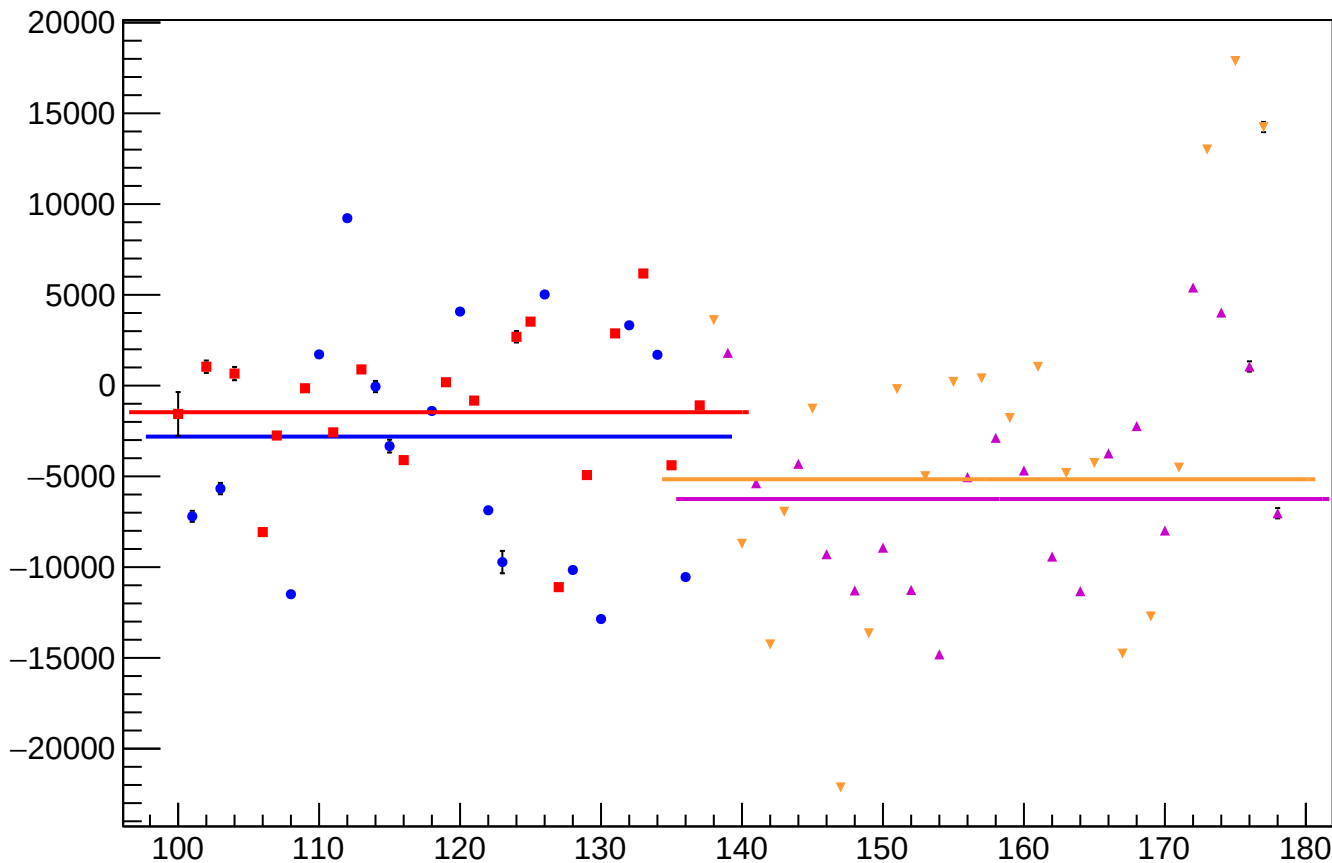
Right: 114.574 ± 0.023 $\chi^2/\text{NDF}: 1542972.7/35$

In: 128.228 ± 0.020 $\chi^2/\text{NDF}: 2706675.4/36$

Out: 126.004 ± 0.019 $\chi^2/\text{NDF}: 2751240.9/39$

All: 127.076 ± 0.014 $\chi^2/\text{NDF}: 5464207.6/76$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101 ± 48.284 $\chi^2/\text{NDF}: 21263.1/16$

Left Out: -5158.391 ± 37.029 $\chi^2/\text{NDF}: 57553.0/20$

Right Out: -1465.074 ± 46.394 $\chi^2/\text{NDF}: 8004.7/18$

Left In: -6247.867 ± 38.073 $\chi^2/\text{NDF}: 16348.4/19$

Left: -5687.992 ± 26.545 $\chi^2/\text{NDF}: 74322.2/40$

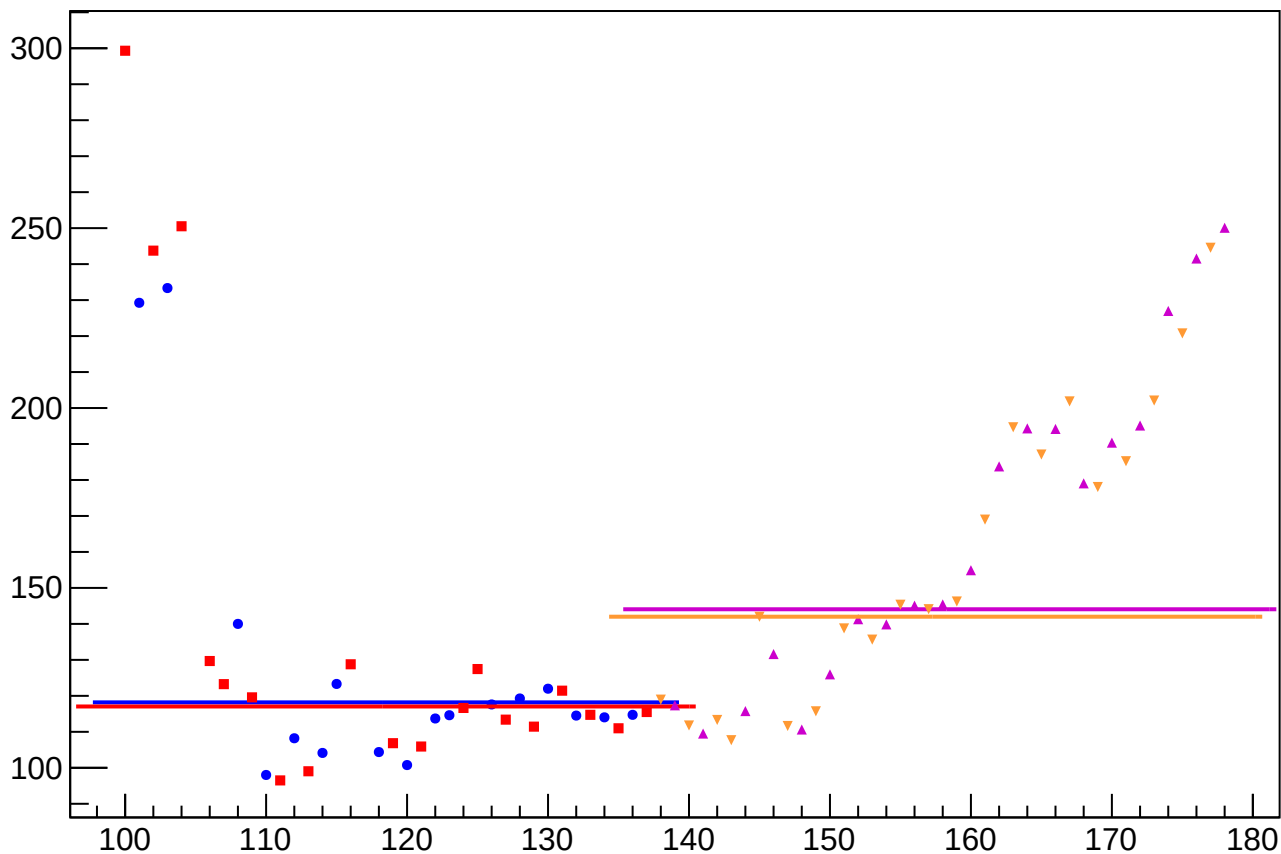
Right: -2110.267 ± 33.454 $\chi^2/\text{NDF}: 29670.7/35$

In: -4929.516 ± 29.897 $\chi^2/\text{NDF}: 40739.1/36$

Out: -3721.199 ± 28.941 $\chi^2/\text{NDF}: 69428.9/39$

All: -4305.740 ± 20.794 $\chi^2/\text{NDF}: 111011.3/77$

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 142.000+/-0.026 χ^2/NDF : 1657373.6/20

Right Out: 117.046+/-0.033 χ^2/NDF : 690635.5/18

Left In: 144.067+/-0.027 χ^2/NDF : 1714351.9/19

Left: 143.004+/-0.019 χ^2/NDF : 3374755.0/40

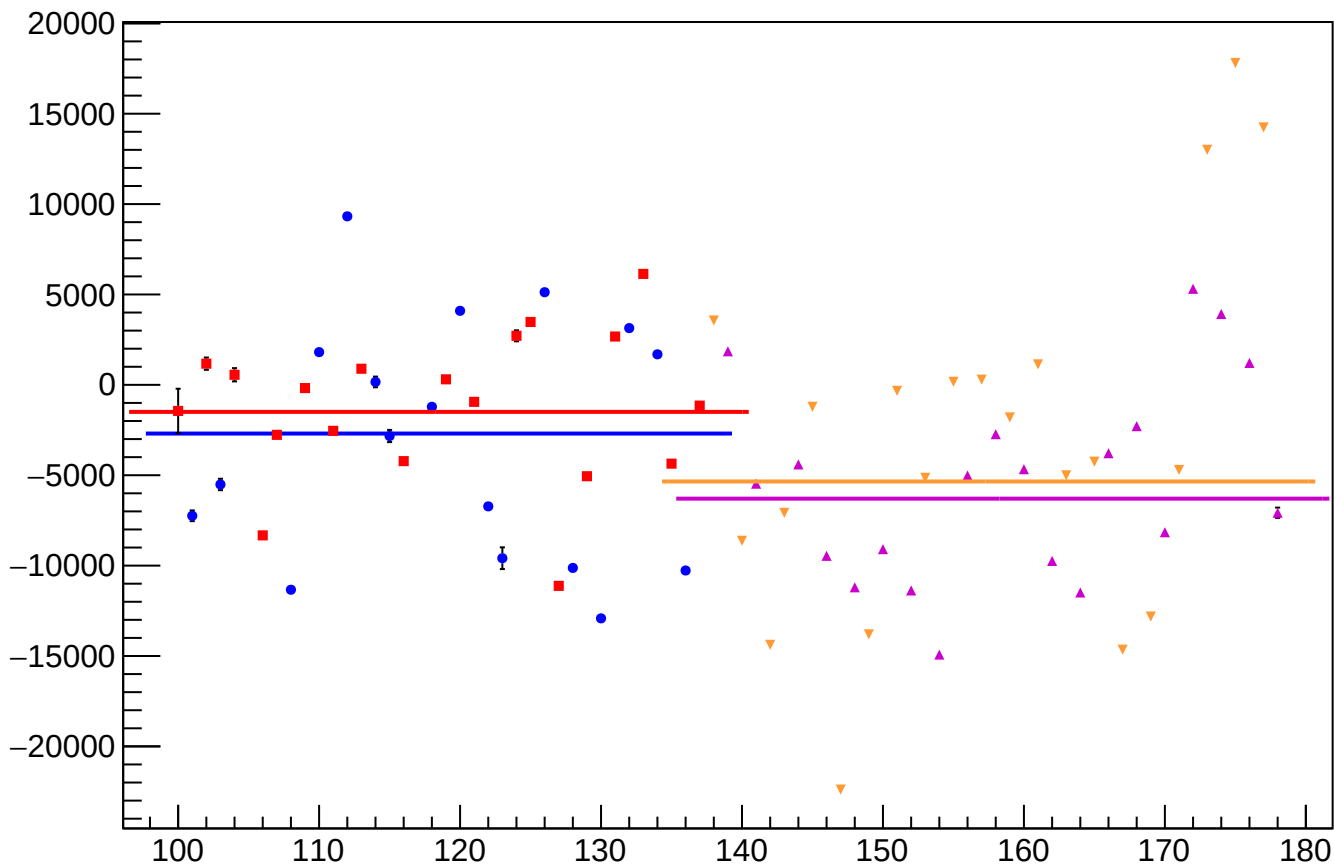
Right: 117.594+/-0.024 χ^2/NDF : 1327469.8/35

In: 134.145+/-0.021 χ^2/NDF : 2704852.0/36

Out: 132.289+/-0.020 χ^2/NDF : 2701458.1/39

All: 133.187+/-0.015 χ^2/NDF : 5410290.2/76

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260 ± 46.347 $\chi^2/\text{NDF}: 22860.3/16$

Left Out: -5345.756 ± 36.155 $\chi^2/\text{NDF}: 61982.4/20$

Right Out: -1495.744 ± 44.445 $\chi^2/\text{NDF}: 8717.2/18$

Left In: -6295.163 ± 37.111 $\chi^2/\text{NDF}: 17459.7/19$

Left: -5808.077 ± 25.897 $\chi^2/\text{NDF}: 79778.0/40$

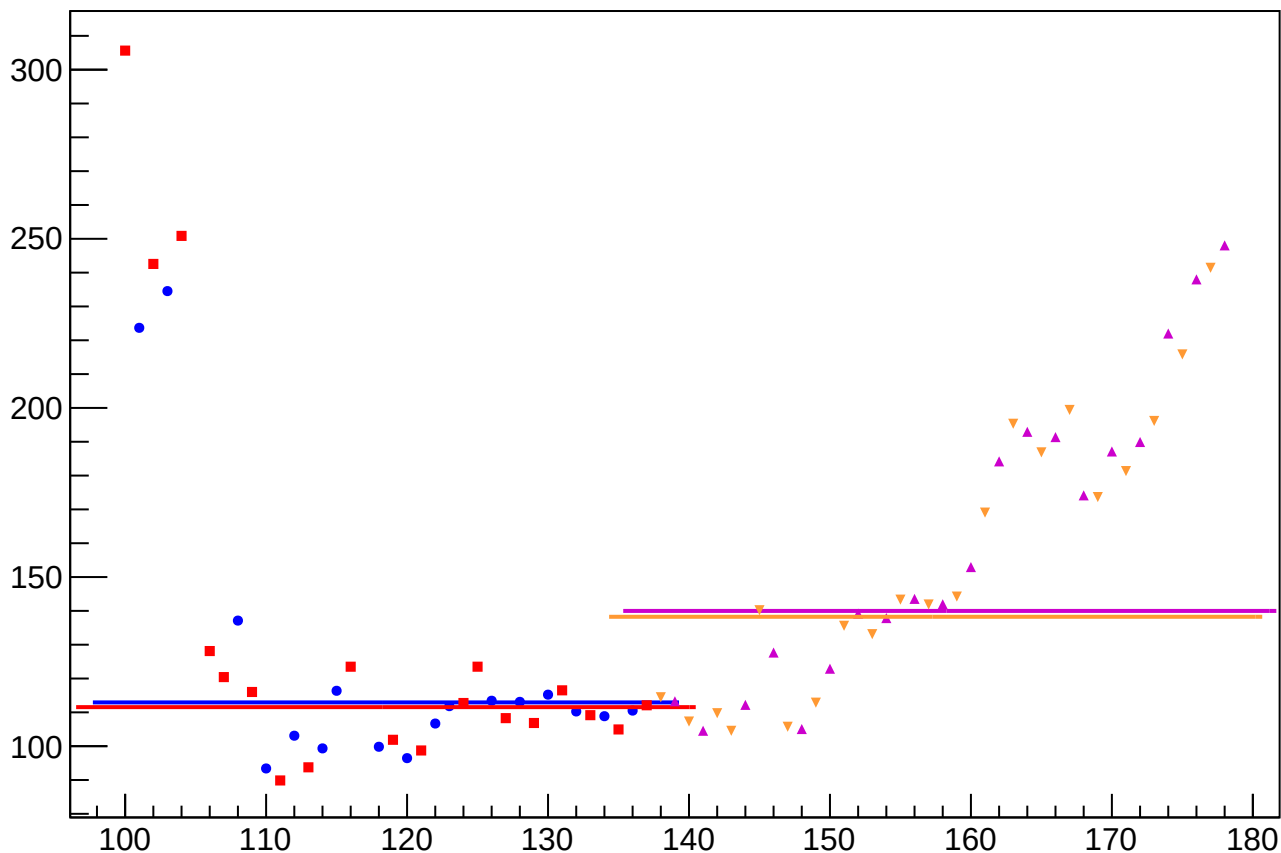
Right: -2069.900 ± 32.079 $\chi^2/\text{NDF}: 31925.8/35$

In: -4888.388 ± 28.969 $\chi^2/\text{NDF}: 43998.2/36$

Out: -3812.561 ± 28.047 $\chi^2/\text{NDF}: 75215.2/39$

All: -4333.089 ± 20.150 $\chi^2/\text{NDF}: 119925.3/77$

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 $\pm$ 0.033 χ^2 /NDF: 680283.1/16

Left Out: 138.253 $\pm$ 0.026 χ^2 /NDF: 1781724.7/20

Right Out: 111.544 $\pm$ 0.031 χ^2 /NDF: 765502.6/18

Left In: 139.987 $\pm$ 0.026 χ^2 /NDF: 1846271.6/19

Left: 139.097 $\pm$ 0.018 χ^2 /NDF: 3630234.6/40

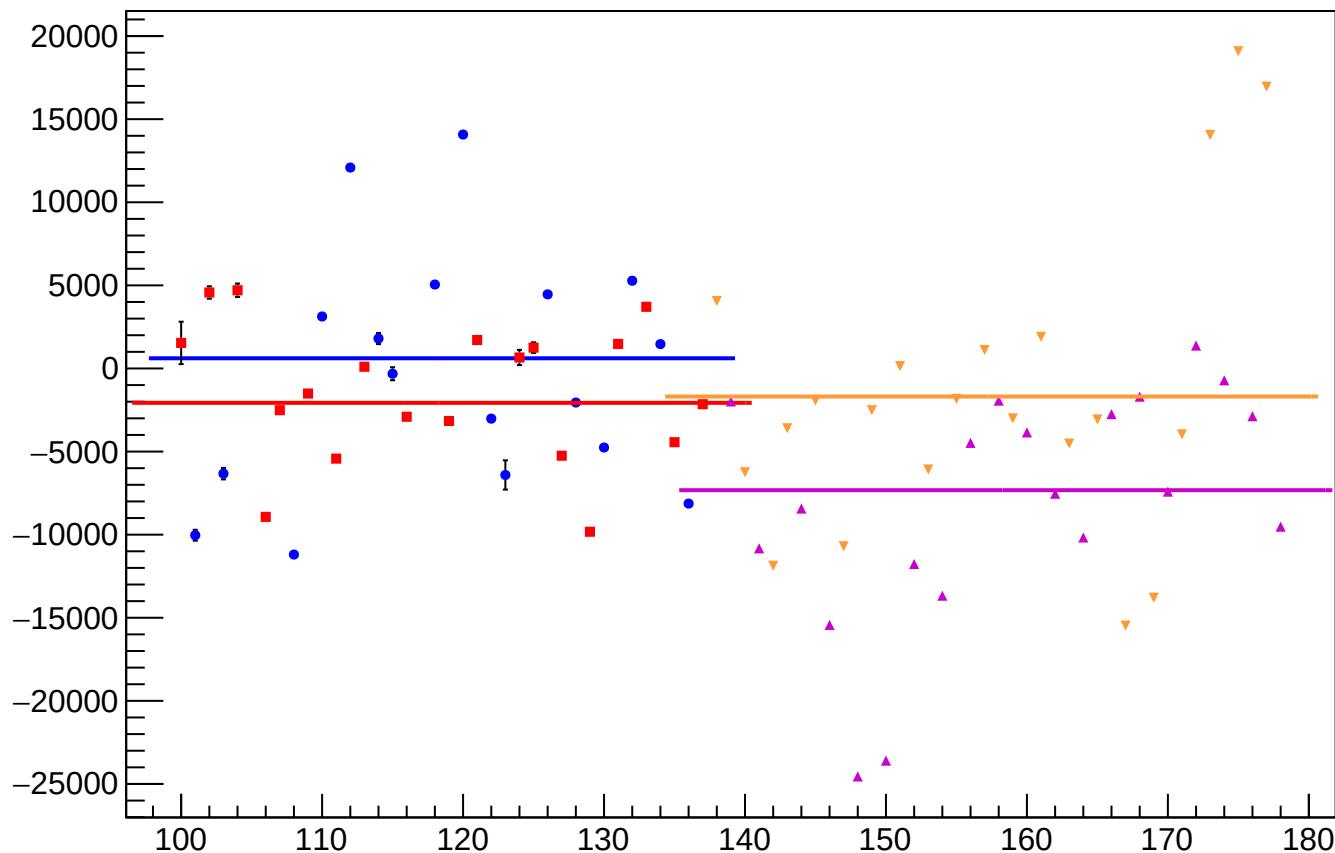
Right: 112.213 $\pm$ 0.023 χ^2 /NDF: 1446732.2/35

In: 129.420 $\pm$ 0.020 χ^2 /NDF: 2941557.4/36

Out: 127.617 $\pm$ 0.020 χ^2 /NDF: 2981900.9/39

All: 128.489 $\pm$ 0.014 χ^2 /NDF: 5927460.8/76

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -1688.776 ± 41.340 $\chi^2/\text{NDF}: 36979.6/20$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -7324.811 ± 43.183 $\chi^2/\text{NDF}: 19260.8/19$

Left: -4383.930 ± 29.862 $\chi^2/\text{NDF}: 65128.8/40$

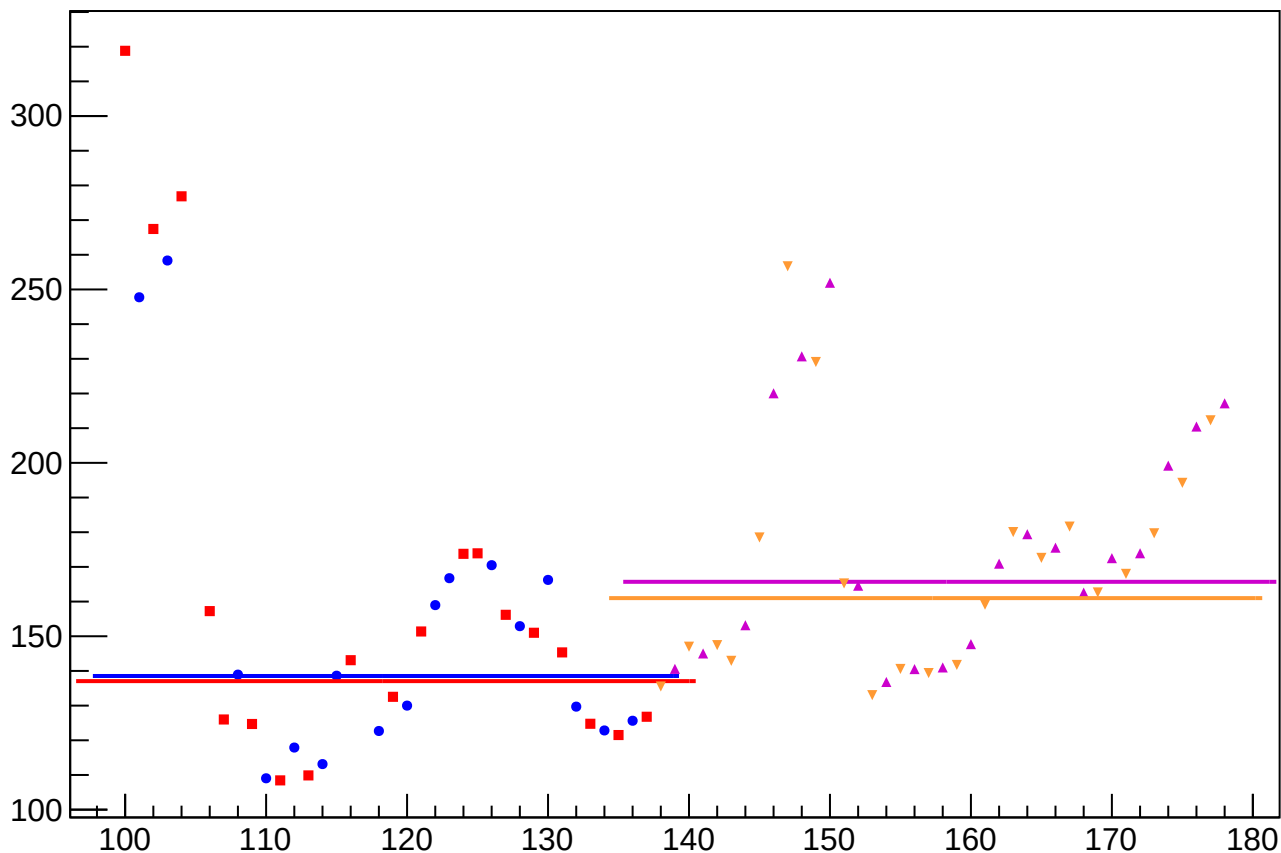
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4369.052 ± 34.211 $\chi^2/\text{NDF}: 50085.4/36$

Out: -1828.911 ± 32.810 $\chi^2/\text{NDF}: 41653.4/39$

All: -3045.901 ± 23.680 $\chi^2/\text{NDF}: 94610.5/76$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 160.997 $\pm$ 0.029 χ^2 /NDF:835029.7/20

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 165.699 $\pm$ 0.031 χ^2 /NDF:918852.3/19

Left: 163.246 $\pm$ 0.021 χ^2 /NDF: 1766254.0/40

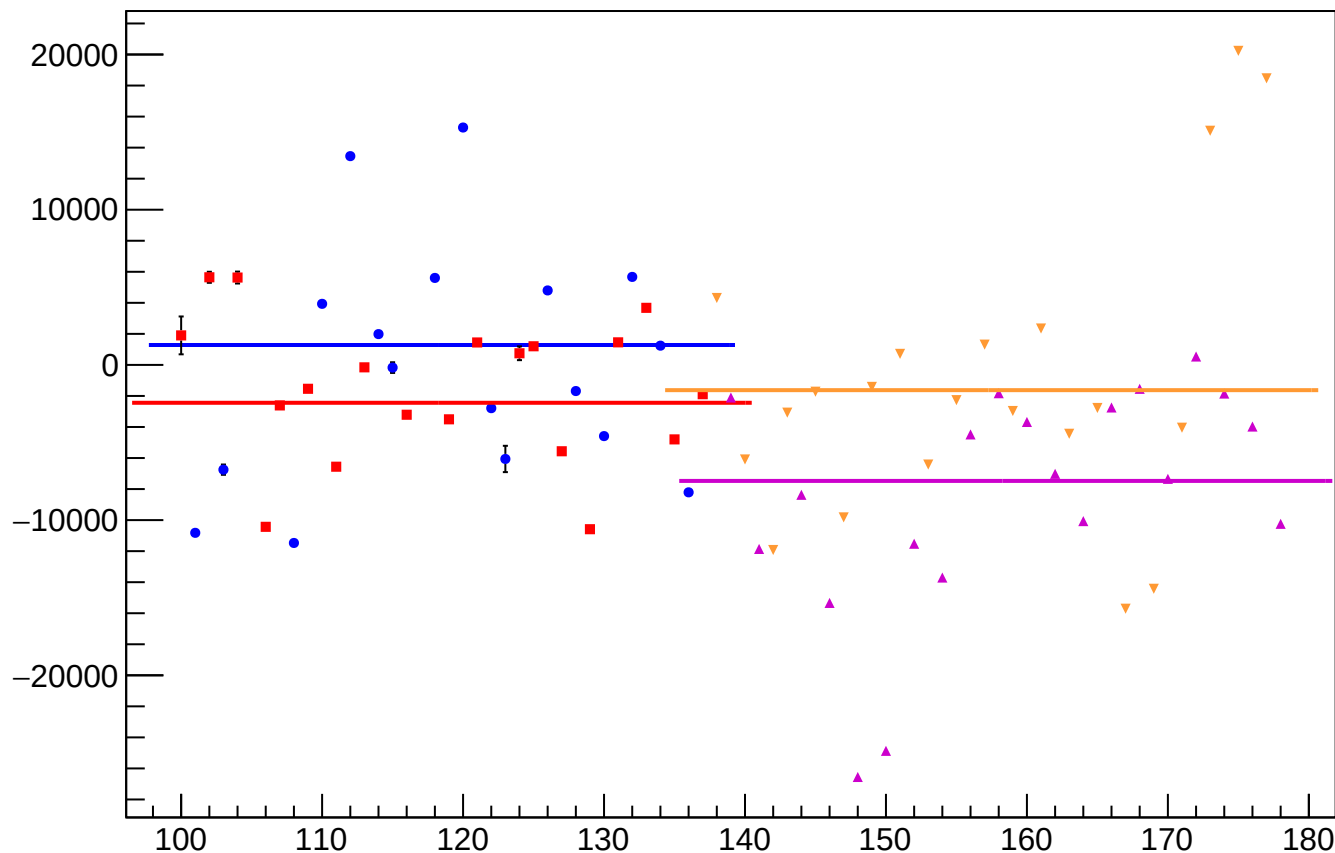
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 155.586 $\pm$ 0.024 χ^2 /NDF:1882351.8/36

Out: 152.138 $\pm$ 0.023 χ^2 /NDF:1838691.8/39

All: 153.790 $\pm$ 0.017 χ^2 /NDF: 3731626.1/76

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -1626.929+/-37.248 χ^2/NDF : 46386.0/20

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -7474.709+/-39.081 χ^2/NDF : 23983.6/19

Left: -4410.429+/-26.963 χ^2/NDF : 82101.9/40

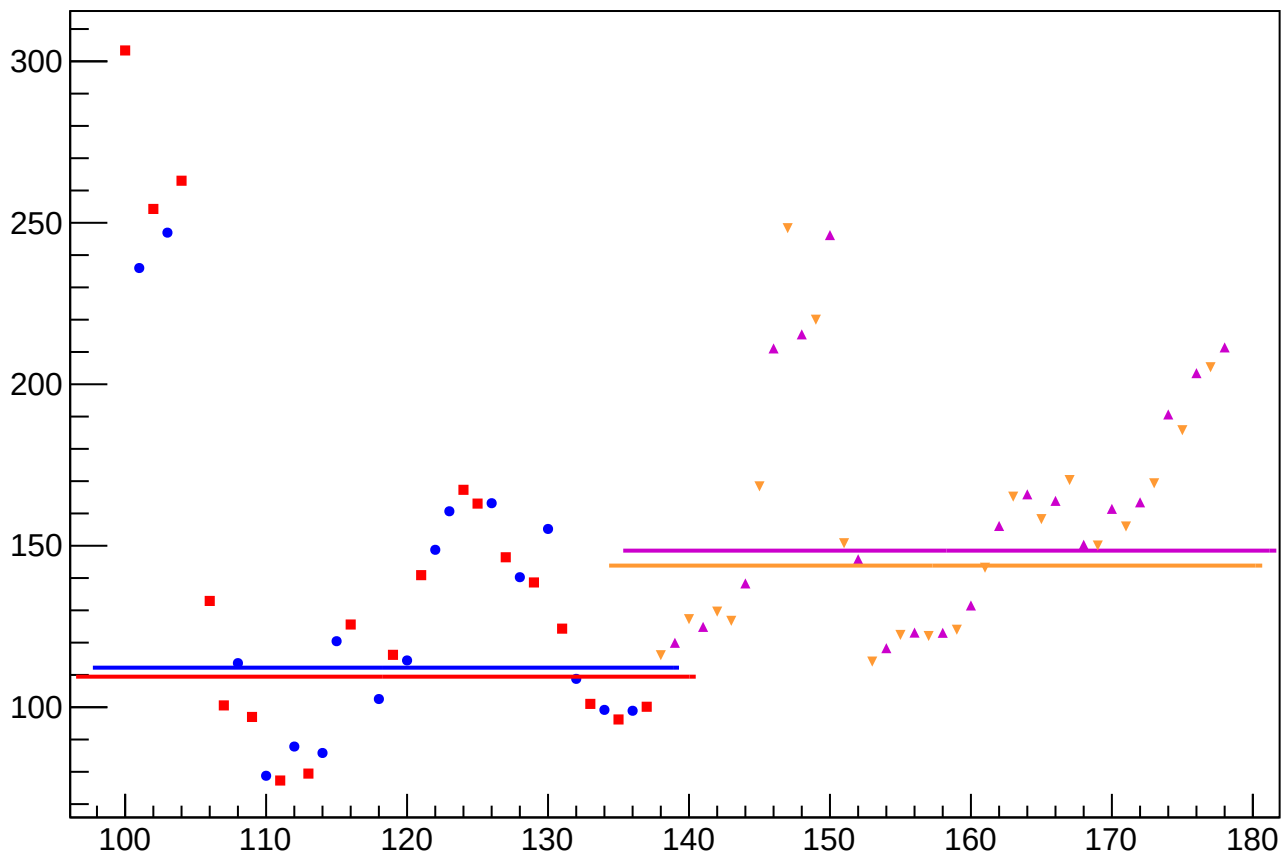
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3855.975+/-29.937 χ^2/NDF : 75274.0/36

Out: -1963.902+/-28.506 χ^2/NDF : 54261.1/39

All: -2863.623+/-20.644 χ^2/NDF : 131630.1/77

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251+/-0.033 χ^2/NDF : 1125537.4/16

Left Out: 143.856+/-0.026 χ^2/NDF : 1226993.1/20

Right Out: 109.460+/-0.031 χ^2/NDF : 1269633.4/18

Left In: 148.487+/-0.028 χ^2/NDF : 1332979.8/19

Left: 146.060+/-0.019 χ^2/NDF : 2574689.9/40

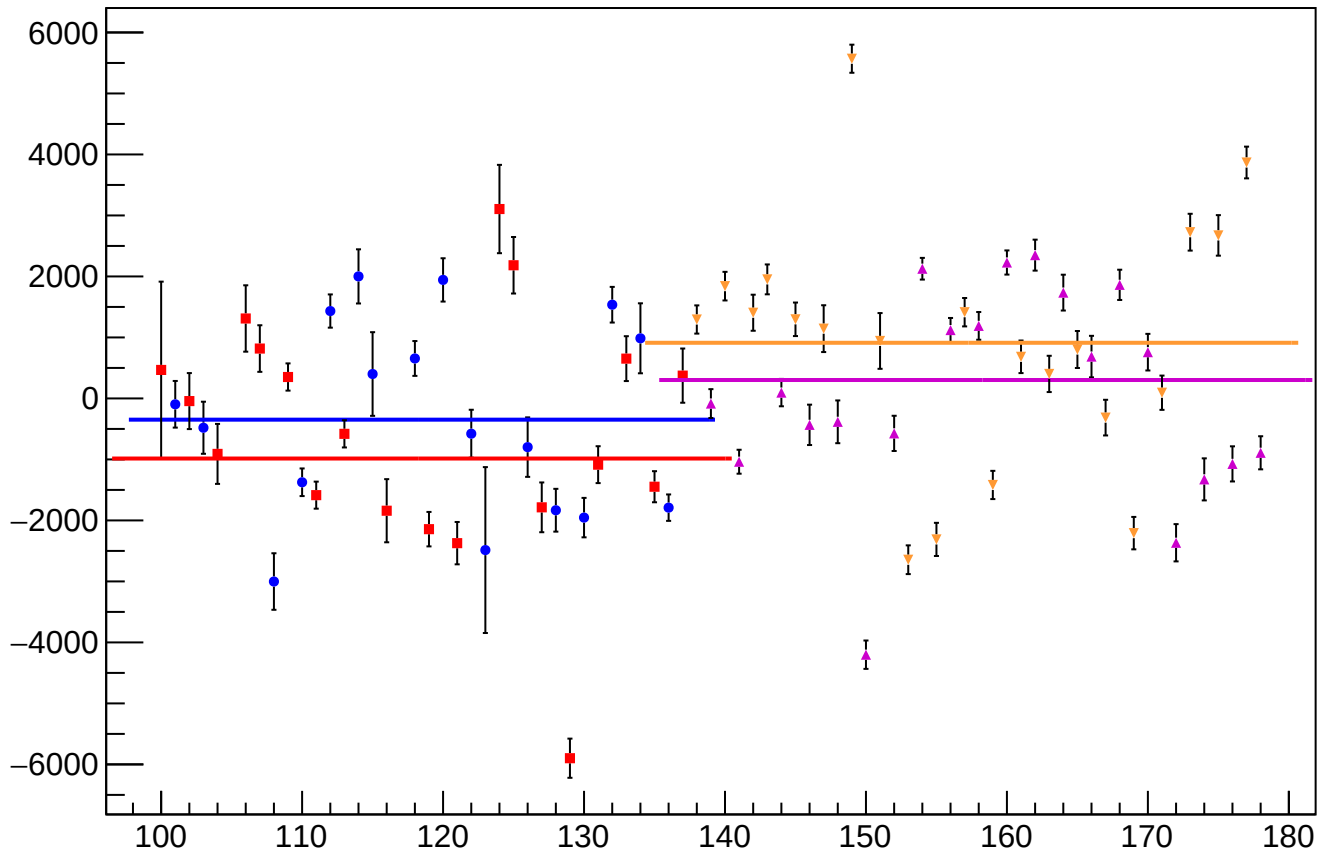
Right: 110.785+/-0.023 χ^2/NDF : 2398941.6/35

In: 133.514+/-0.021 χ^2/NDF : 3169001.2/36

Out: 129.605+/-0.020 χ^2/NDF : 3203226.5/39

All: 131.464+/-0.015 χ^2/NDF : 6390109.3/76

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055±/83.826 χ^2/NDF : 317.3/16

Left Out: 912.446±/59.042 χ^2/NDF :1285.9/20

Right Out: -985.242±/77.683 χ^2/NDF : 476.6/18

Left In: 302.104±/55.796 χ^2/NDF :947.7/19

Left: 590.039±/40.553 χ^2/NDF : 2290.0/40

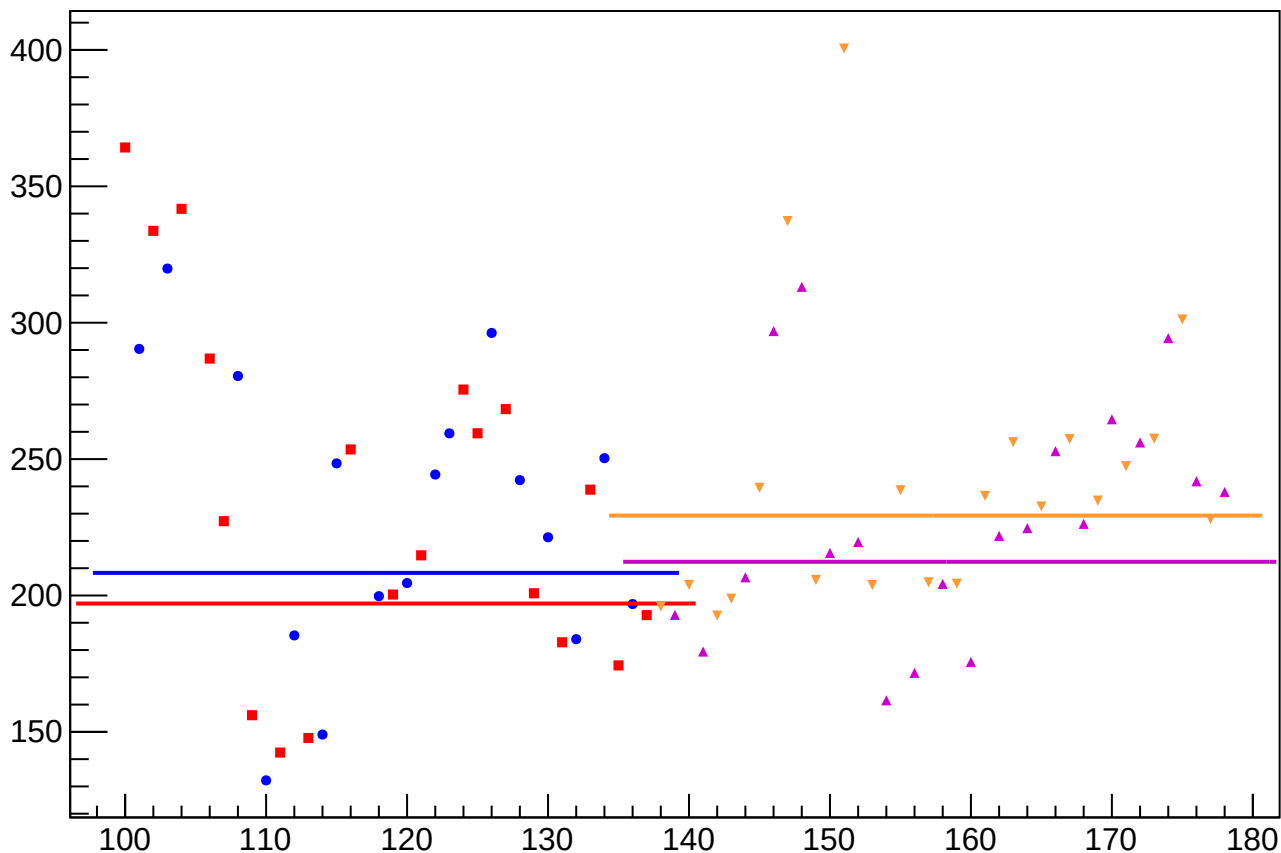
Right: -690.850±/56.978 χ^2/NDF : 824.9/35

In: 102.493±/46.448 χ^2/NDF :1306.7/36

Out: 217.619±/47.006 χ^2/NDF :2140.7/39

All: 159.368±/33.039 χ^2/NDF : 3450.4/76

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288 $\pm$ 0.059 χ^2/NDF : 698491.0/16

Left Out: 229.289 $\pm$ 0.042 χ^2/NDF :817406.1/20

Right Out: 197.051 $\pm$ 0.055 χ^2/NDF : 926786.6/18

Left In: 212.351 $\pm$ 0.039 χ^2/NDF :982023.6/19

Left: 220.342 $\pm$ 0.029 χ^2/NDF : 1886377.8/40

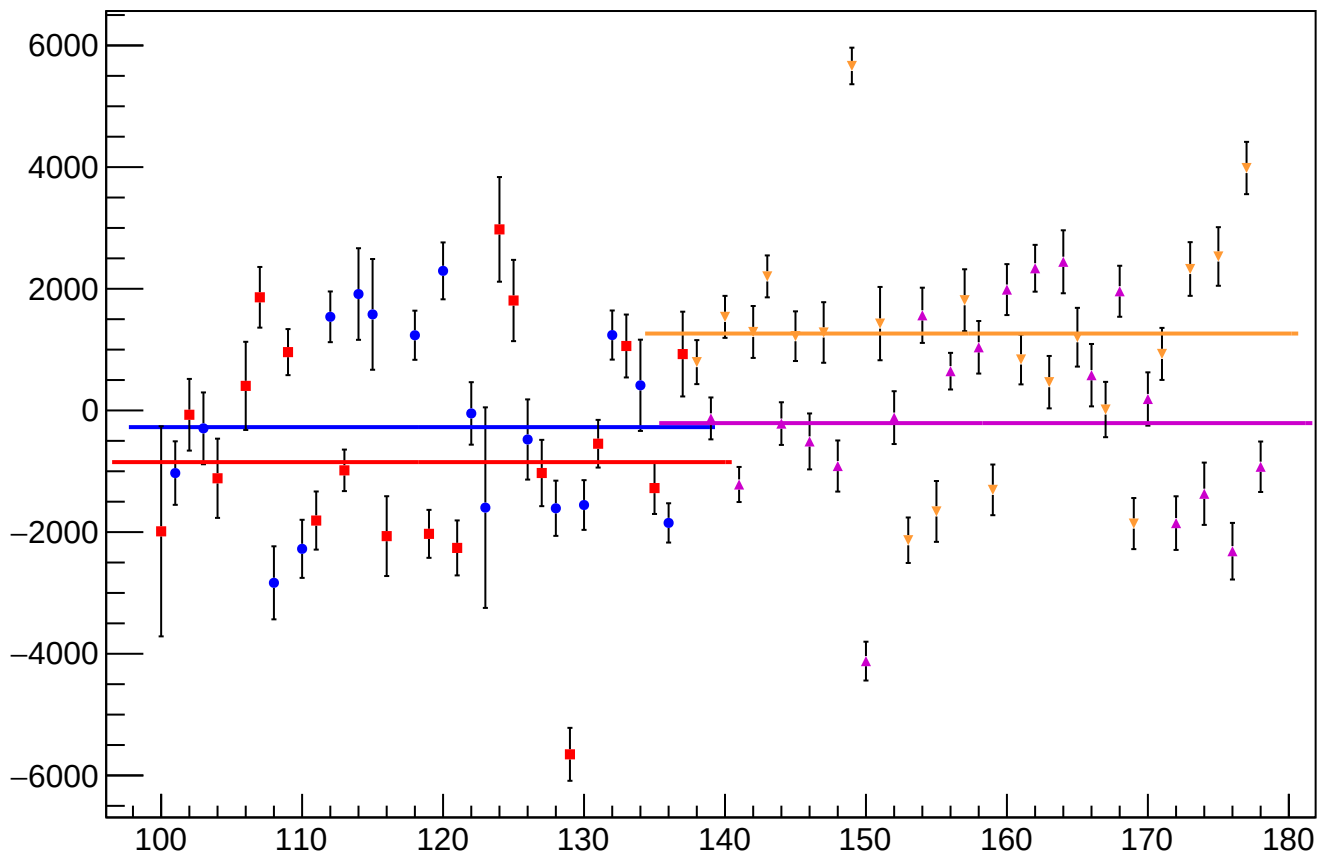
Right: 202.243 $\pm$ 0.040 χ^2/NDF : 1644610.3/35

In: 211.104 $\pm$ 0.033 χ^2/NDF :1683771.7/36

Out: 217.485 $\pm$ 0.033 χ^2/NDF :1962517.0/39

All: 214.256 $\pm$ 0.023 χ^2/NDF : 3664940.7/76

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260±/121.326 χ^2/NDF : 171.6/16

Left Out: 1264.111±/90.894 χ^2/NDF : 500.9/20

Right Out: -849.413±/115.349 χ^2/NDF : 263.3/18

Left In: -208.253±/89.221 χ^2/NDF : 367.5/19

Left: 514.252±/63.672 χ^2/NDF : 1002.0/40

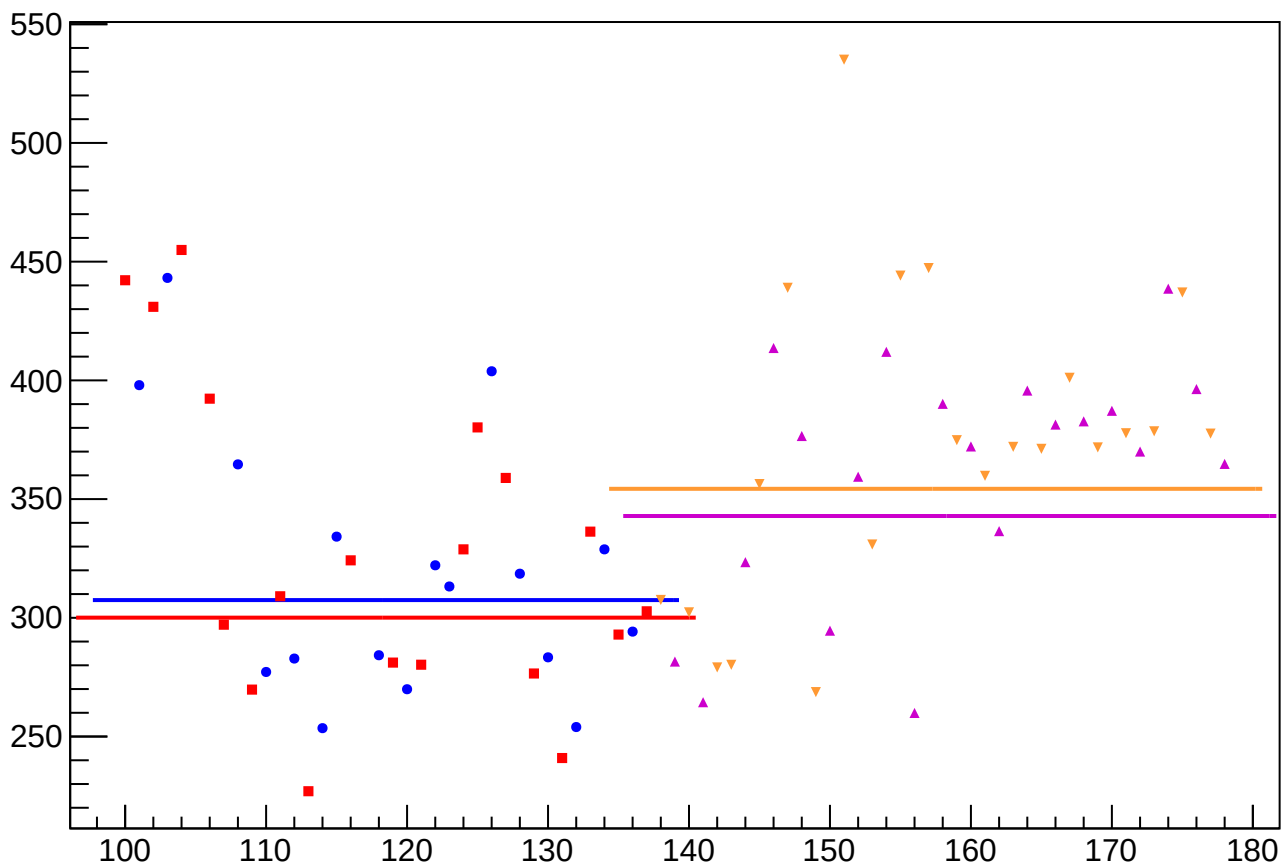
Right: -576.352±/83.597 χ^2/NDF : 446.6/35

In: -231.420±/71.878 χ^2/NDF : 539.2/36

Out: 454.480±/71.393 χ^2/NDF : 971.3/39

All: 113.853±/50.653 χ^2/NDF : 1556.4/76

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2 /NDF: 323096.7/16

Left Out: 354.330 $\pm$ 0.064 χ^2 /NDF: 885167.4/20

Right Out: 300.069 $\pm$ 0.082 χ^2 /NDF: 490398.9/18

Left In: 342.877 $\pm$ 0.063 χ^2 /NDF: 738882.2/19

Left: 348.497 $\pm$ 0.045 χ^2 /NDF: 1640223.9/40

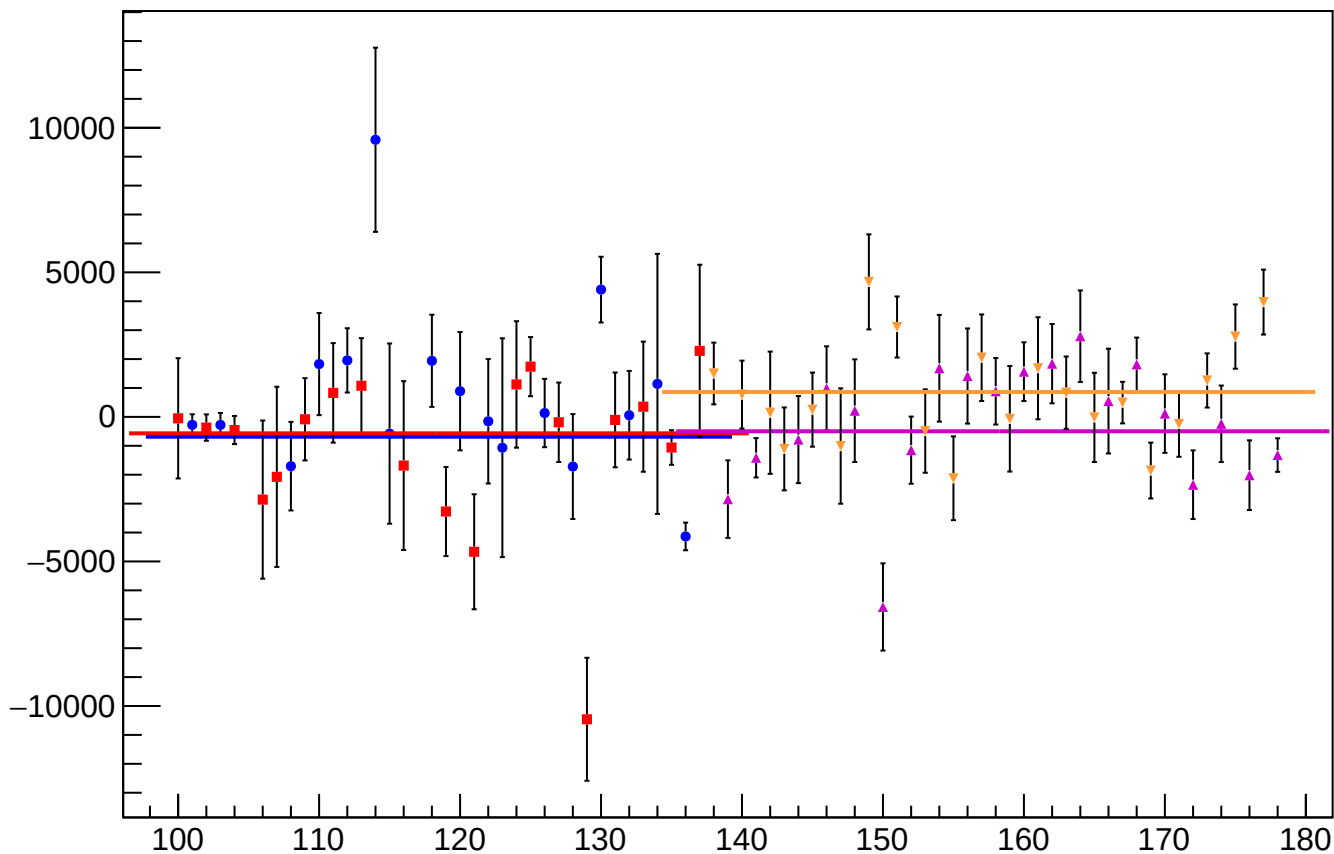
Right: 303.582 $\pm$ 0.059 χ^2 /NDF: 817401.9/35

In: 330.449 $\pm$ 0.051 χ^2 /NDF: 1172539.6/36

Out: 333.545 $\pm$ 0.050 χ^2 /NDF: 1648598.6/39

All: 332.007 $\pm$ 0.036 χ^2 /NDF: 2823005.8/76

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2/NDF : 97.4/16

Left Out: 862.374 $\pm$ 266.851 χ^2/NDF :39.9/20

Right Out: -568.651 $\pm$ 243.251 χ^2/NDF : 39.7/18

Left In: -497.654 $\pm$ 254.921 χ^2/NDF :51.0/19

Left: 151.282 $\pm$ 184.330 χ^2/NDF : 104.4/40

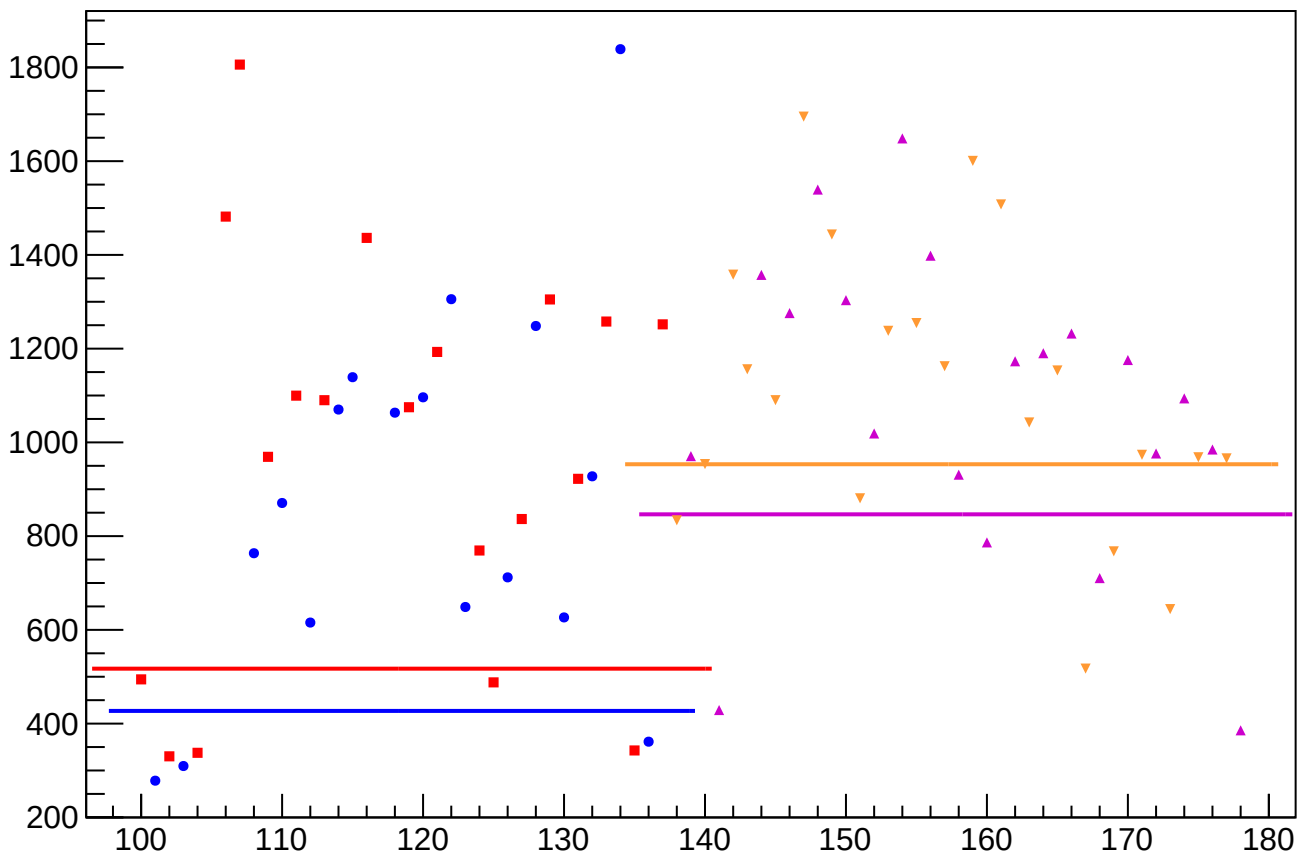
Right: -635.255 $\pm$ 159.106 χ^2/NDF : 137.2/35

In: -609.148 $\pm$ 162.242 χ^2/NDF :148.7/36

Out: 80.798 $\pm$ 179.770 χ^2/NDF :95.3/39

All: -299.443 $\pm$ 120.444 χ^2/NDF : 252.1/76

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 953.358+/-0.189 χ^2/NDF :2349052.7/20

Right Out: 517.234+/-0.172 χ^2/NDF : 3605111.9/18

Left In: 846.507+/-0.180 χ^2/NDF :4165469.3/19

Left: 897.491+/-0.130 χ^2/NDF : 6682181.7/40

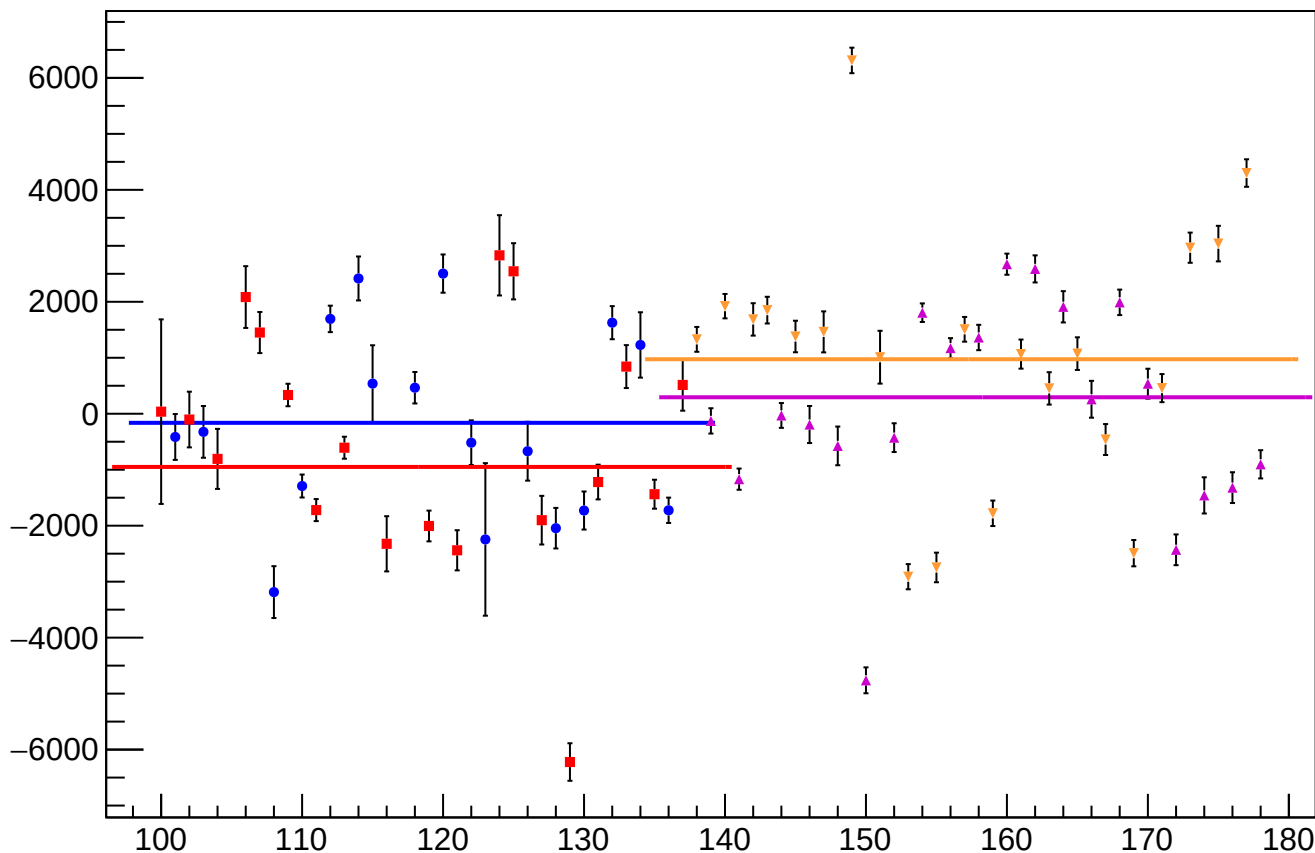
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 596.970+/-0.115 χ^2/NDF :10252296.8/36

Out: 715.163+/-0.127 χ^2/NDF :8871843.0/39

All: 650.025+/-0.085 χ^2/NDF : 19600591.4/76

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333+/-82.350 χ^2/NDF : 387.6/16

Left Out: 973.783+/-56.402 χ^2/NDF :1773.7/20

Right Out: -950.093+/-75.133 χ^2/NDF : 539.8/18

Left In: 294.362+/-52.807 χ^2/NDF :1211.5/19

Left: 611.732+/-38.548 χ^2/NDF : 3062.5/40

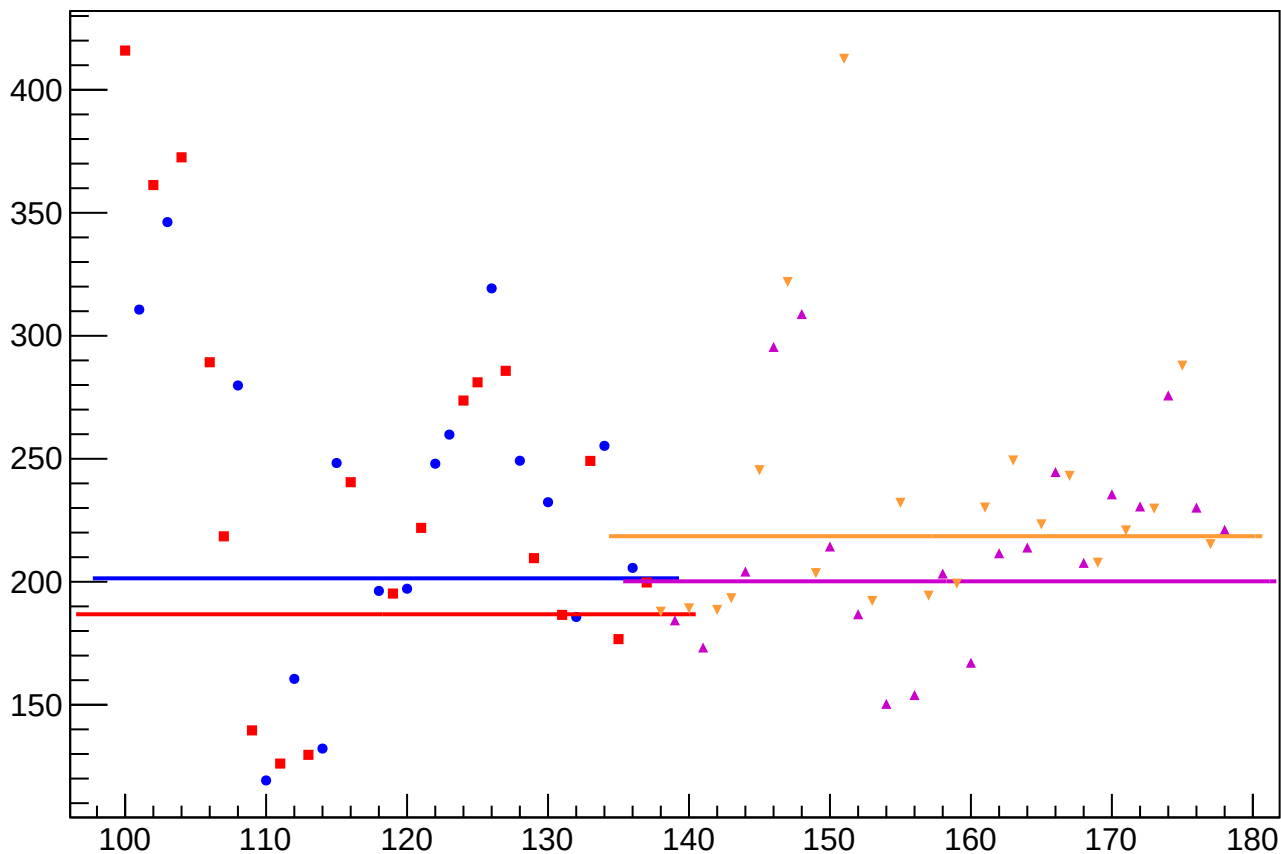
Right: -592.238+/-55.504 χ^2/NDF : 977.3/35

In: 161.289+/-44.453 χ^2/NDF :1620.8/36

Out: 280.371+/-45.106 χ^2/NDF :2732.8/39

All: 219.961+/-31.661 χ^2/NDF : 4357.2/76

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409+/-0.058 χ^2/NDF : 1056022.1/16

Left Out: 218.535+/-0.040 χ^2/NDF : 859895.9/20

Right Out: 186.797+/-0.053 χ^2/NDF : 1393162.0/18

Left In: 200.192+/-0.037 χ^2/NDF : 1058749.0/19

Left: 208.760+/-0.027 χ^2/NDF : 2031371.0/40

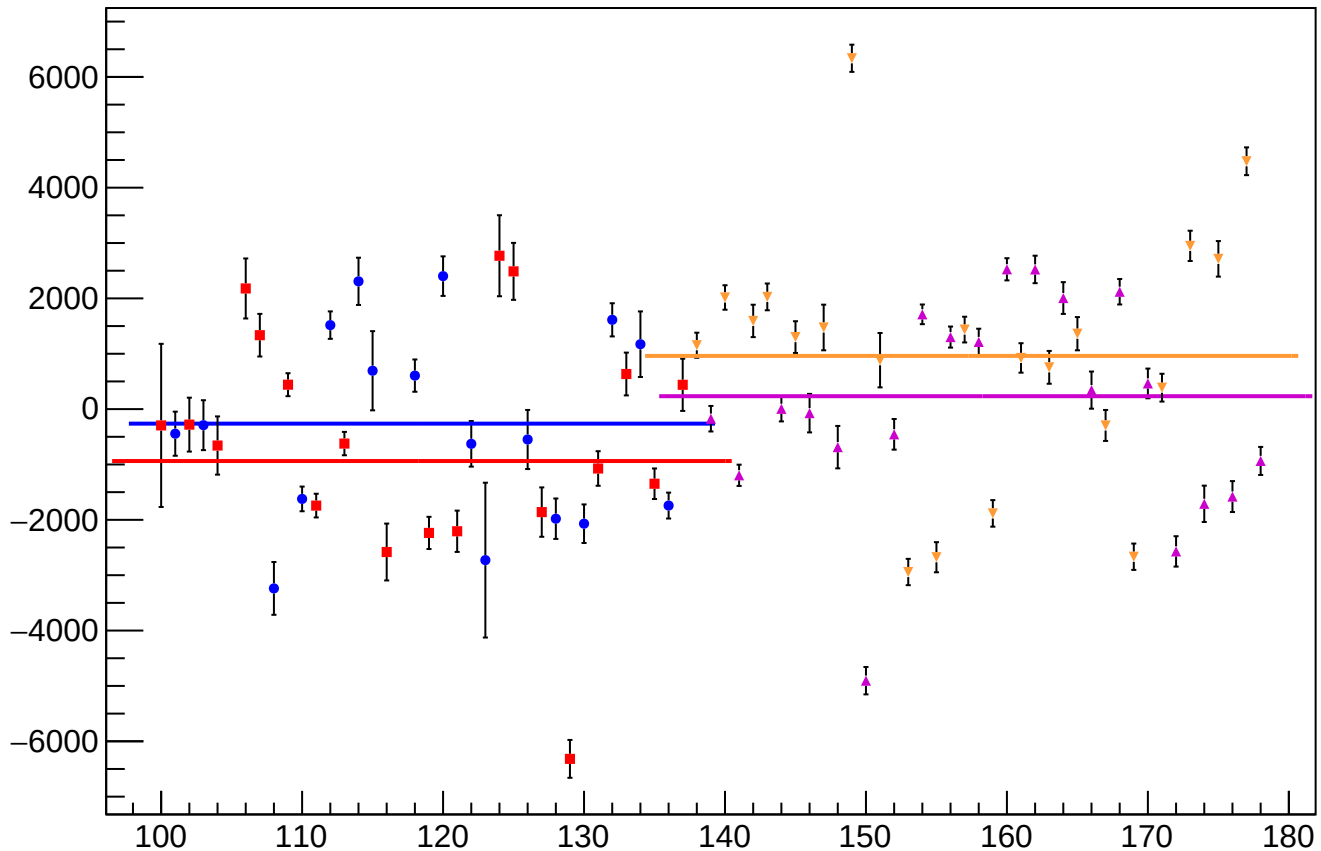
Right: 193.435+/-0.039 χ^2/NDF : 2483546.7/35

In: 200.547+/-0.031 χ^2/NDF : 2115080.8/36

Out: 207.096+/-0.032 χ^2/NDF : 2481306.4/39

All: 203.774+/-0.022 χ^2/NDF : 4617778.2/76

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324 $\pm$ 85.433 χ^2/NDF : 368.7/16

Left Out: 961.011 $\pm$ 58.070 χ^2/NDF :1661.8/20

Right Out: -937.678 $\pm$ 78.434 χ^2/NDF : 521.9/18

Left In: 233.213 $\pm$ 54.837 χ^2/NDF :1146.4/19

Left: 576.285 $\pm$ 39.870 χ^2/NDF : 2891.3/40

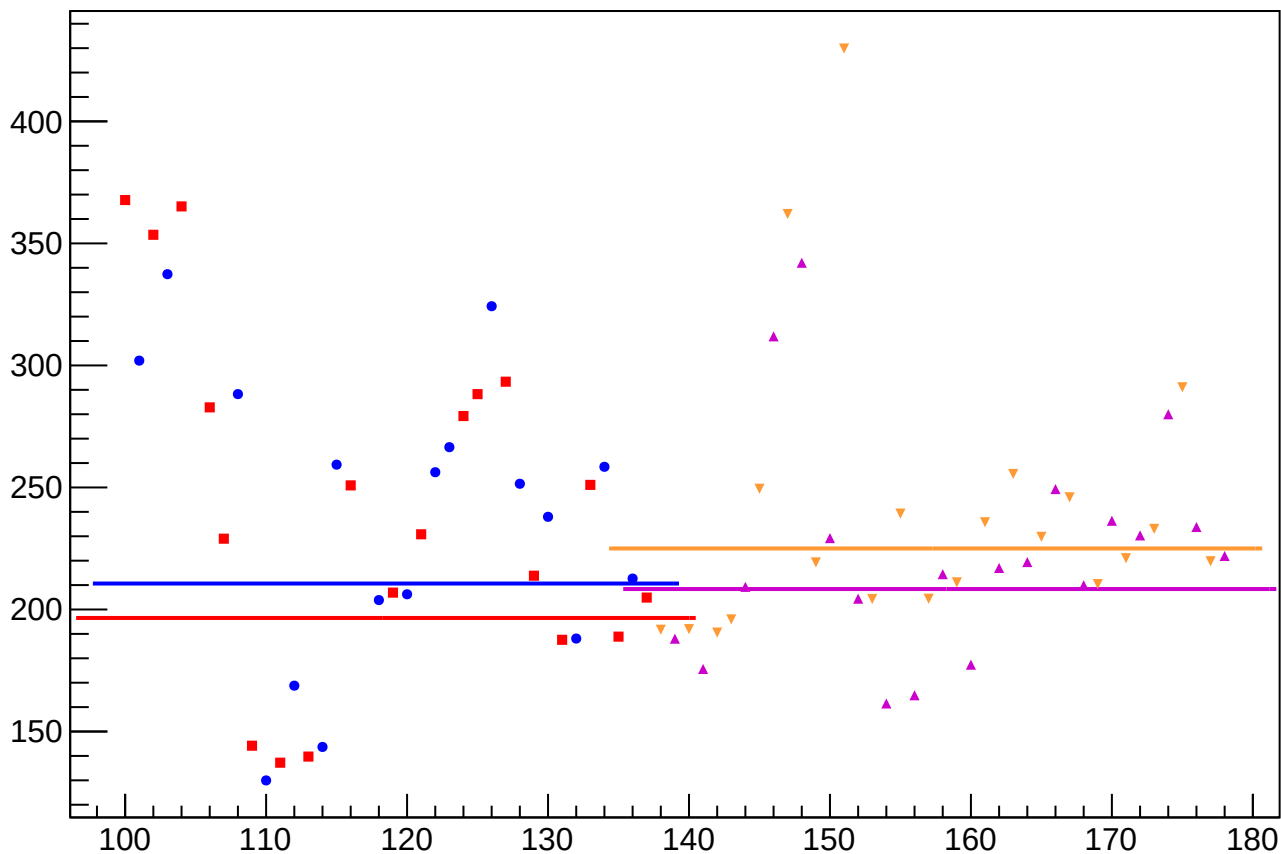
Right: -628.795 $\pm$ 57.777 χ^2/NDF : 924.5/35

In: 88.625 $\pm$ 46.148 χ^2/NDF :1539.0/36

Out: 288.746 $\pm$ 46.671 χ^2/NDF :2562.3/39

All: 187.558 $\pm$ 32.815 χ^2/NDF : 4110.5/76

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 225.005+/-0.041 χ^2/NDF : 903469.0/20

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 208.382+/-0.039 χ^2/NDF : 989385.6/19

Left: 216.218+/-0.028 χ^2/NDF : 1979482.7/40

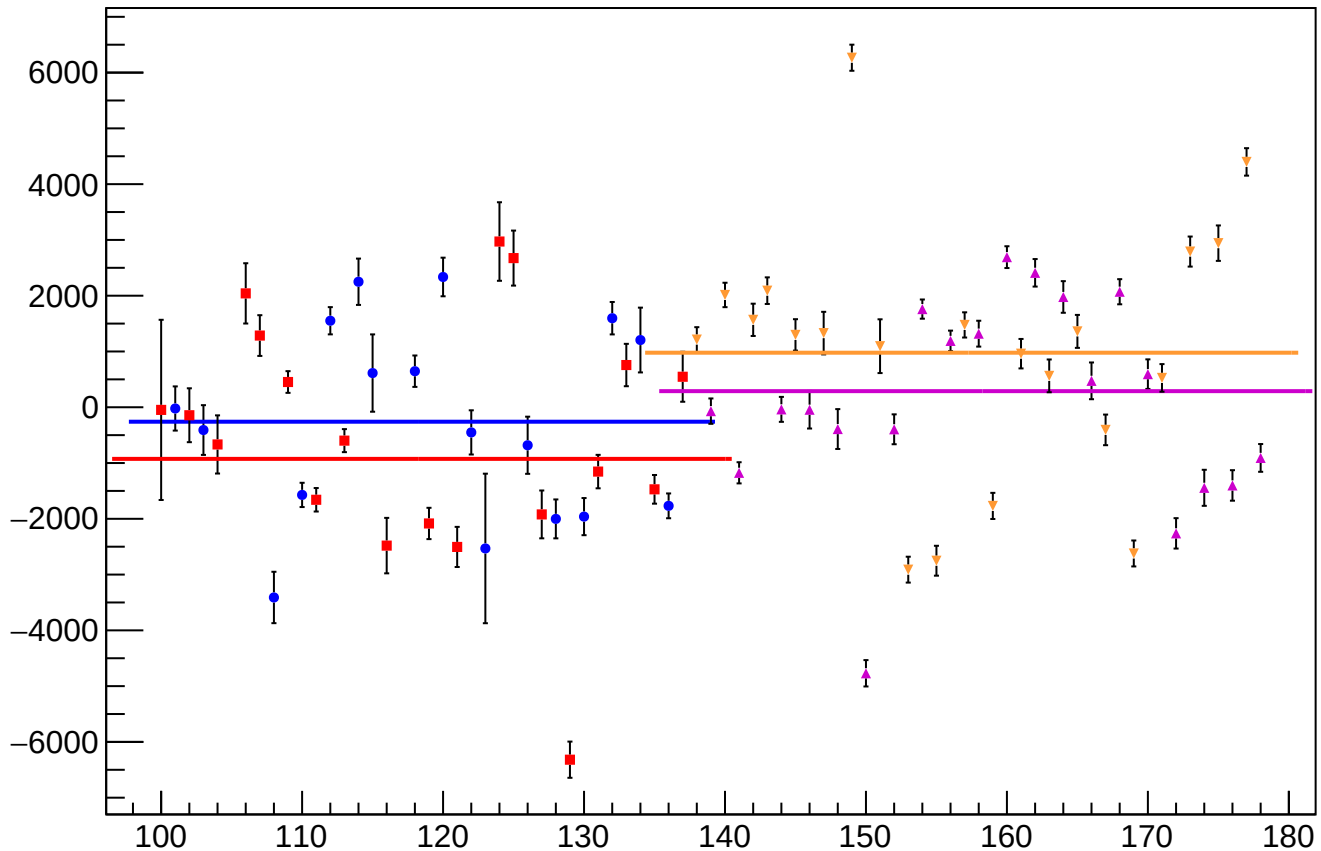
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 209.040+/-0.033 χ^2/NDF : 1866147.7/36

Out: 214.922+/-0.033 χ^2/NDF : 2278846.8/39

All: 211.948+/-0.023 χ^2/NDF : 4161059.3/76

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Left: 612.679 $\pm$ 39.023 χ^2/NDF : 2958.1/40

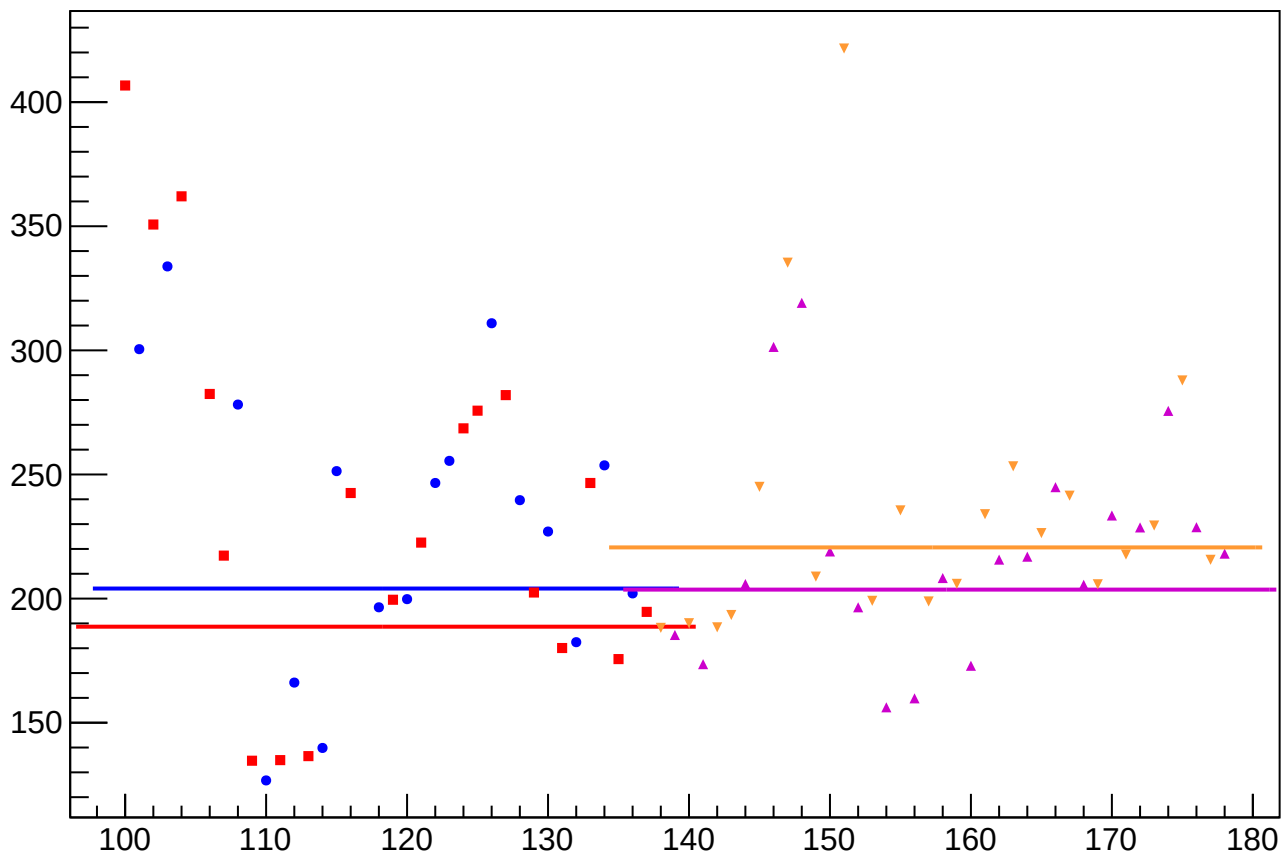
Right: -622.995 $\pm$ 55.791 χ^2/NDF : 1008.5/35

In: 127.021 $\pm$ 44.995 χ^2/NDF : 1574.5/36

Out: 288.100 $\pm$ 45.454 χ^2/NDF : 2715.1/39

All: 206.742 $\pm$ 31.977 χ^2/NDF : 4296.0/76

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 220.620+/-0.040 χ^2/NDF : 873570.6/20

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 203.618+/-0.038 χ^2/NDF : 971168.8/19

Left: 211.608+/-0.028 χ^2/NDF : 1939312.0/40

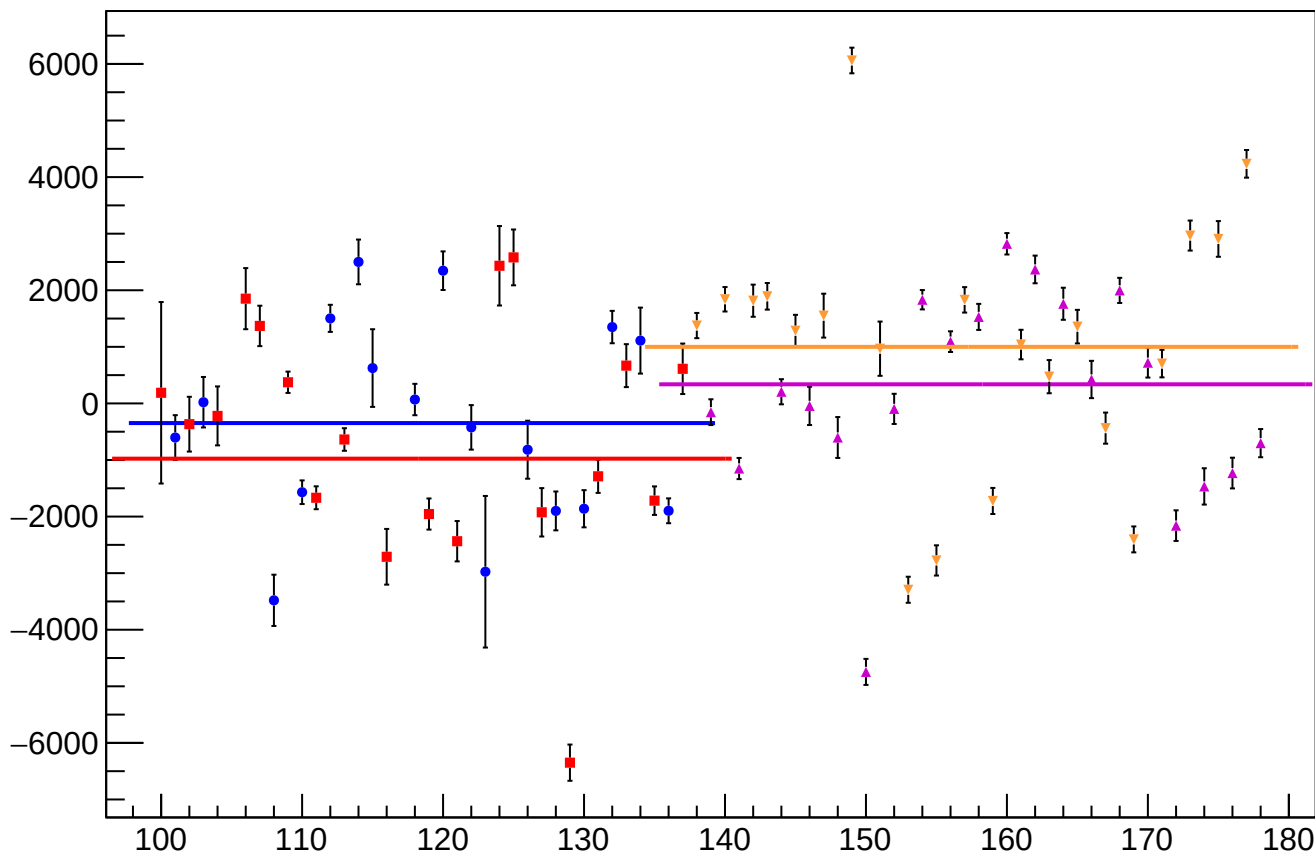
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 203.746+/-0.032 χ^2/NDF : 1839630.4/36

Out: 209.045+/-0.032 χ^2/NDF : 2352866.3/39

All: 206.368+/-0.023 χ^2/NDF : 4206223.3/76

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 χ^2/NDF : 399.1/16

Left Out: 999.891 ± 56.401 χ^2/NDF : 1763.6/20

Right Out: -976.286 ± 73.889 χ^2/NDF : 585.7/18

Left In: 337.782 ± 53.120 χ^2/NDF : 1179.0/19

Left: 649.023 ± 38.670 χ^2/NDF : 3015.6/40

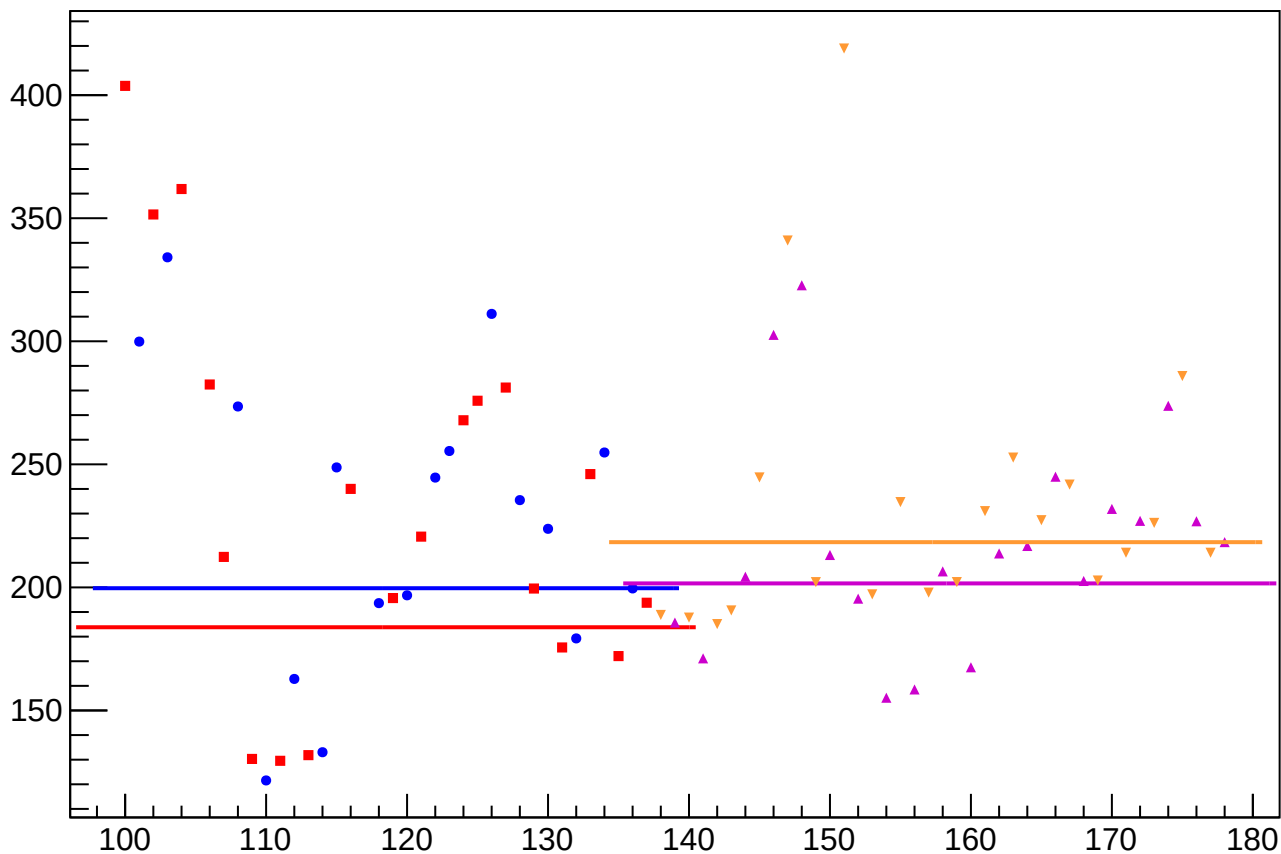
Right: -691.802 ± 54.685 χ^2/NDF : 1017.5/35

In: 132.894 ± 44.472 χ^2/NDF : 1627.8/36

Out: 272.359 ± 44.832 χ^2/NDF : 2801.2/39

All: 202.064 ± 31.573 χ^2/NDF : 4433.9/76

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 218.381 $\pm$ 0.040 χ^2 /NDF: 911135.4/20

Right Out: 183.808 $\pm$ 0.052 χ^2 /NDF: 1349625.1/18

Left In: 201.622 $\pm$ 0.038 χ^2 /NDF: 1013065.5/19

Left: 209.500 $\pm$ 0.027 χ^2 /NDF: 2017770.0/40

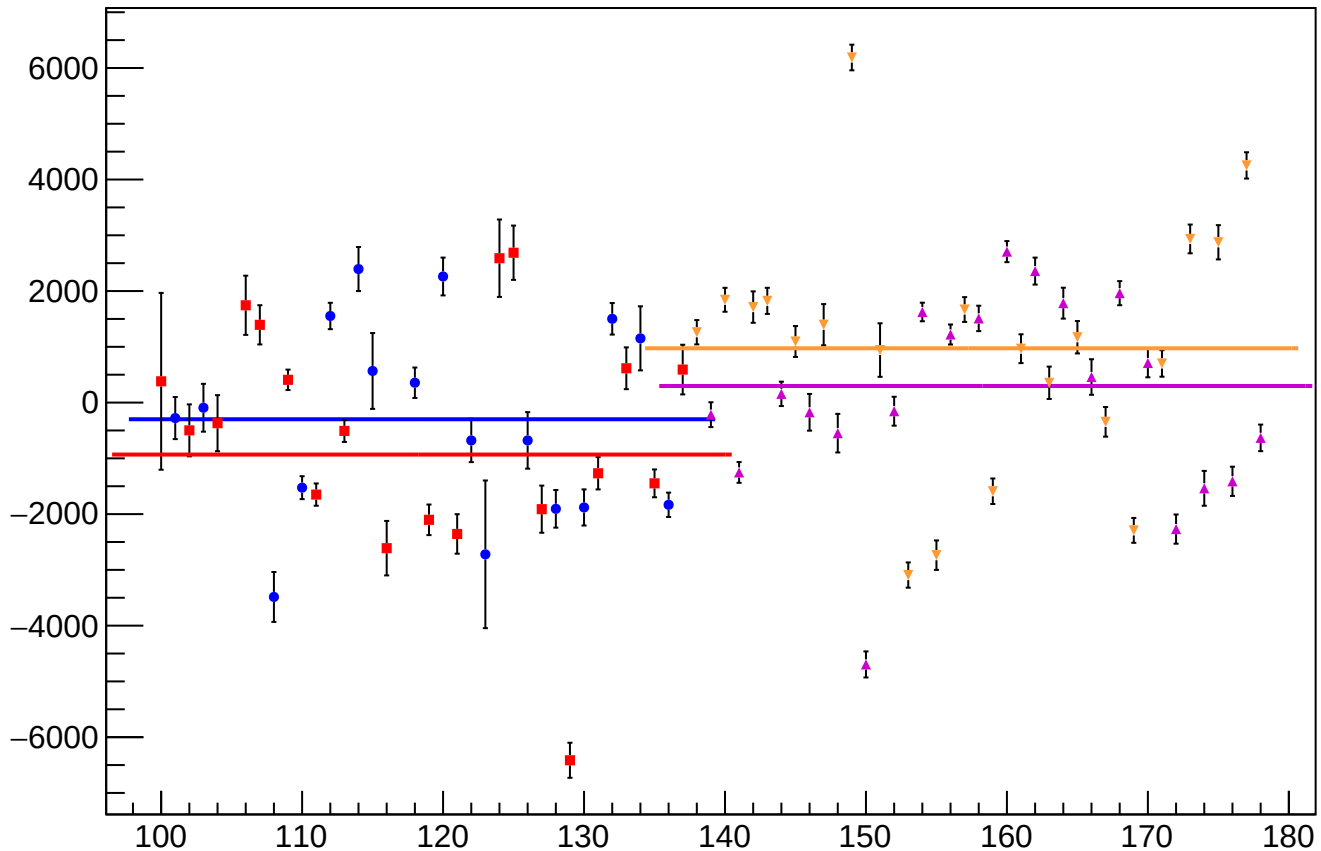
Right: 190.981 $\pm$ 0.039 χ^2 /NDF: 2334457.4/35

In: 201.038 $\pm$ 0.031 χ^2 /NDF: 1957029.4/36

Out: 205.653 $\pm$ 0.032 χ^2 /NDF: 2537417.5/39

All: 203.327 $\pm$ 0.022 χ^2 /NDF: 4505127.1/76

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963+/-80.162 χ^2/NDF : 406.6/16

Left Out: 973.879+/-55.499 χ^2/NDF :1743.1/20

Right Out: -931.843+/-72.751 χ^2/NDF : 614.8/18

Left In: 297.553+/-52.076 χ^2/NDF :1175.8/19

Left: 614.216+/-37.976 χ^2/NDF : 2997.9/40

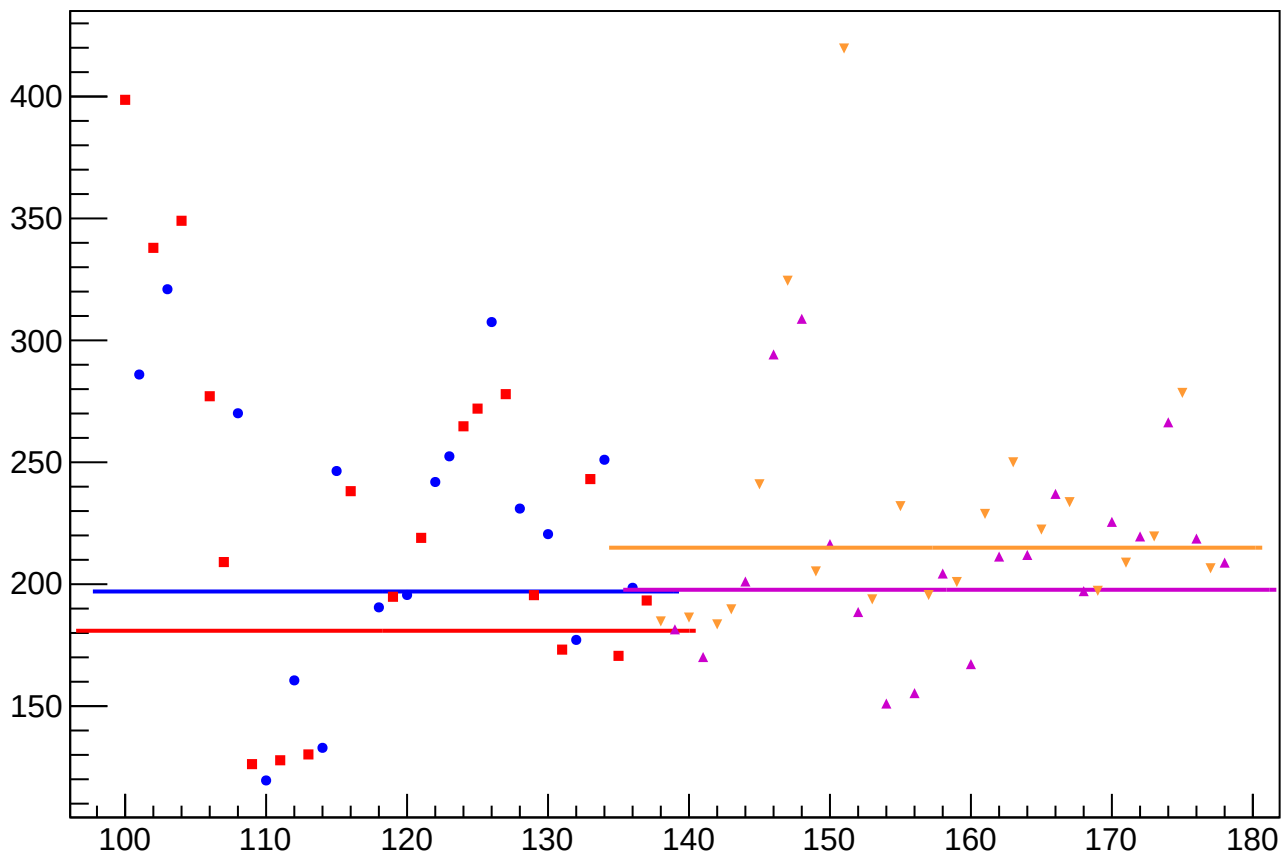
Right: -646.004+/-53.873 χ^2/NDF : 1055.6/35

In: 120.520+/-43.670 χ^2/NDF :1621.4/36

Out: 272.811+/-44.125 χ^2/NDF :2791.6/39

All: 195.876+/-31.039 χ^2/NDF : 4419.0/76

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 214.975+/-0.039 χ^2/NDF :880008.1/20

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 197.717+/-0.037 χ^2/NDF :964549.3/19

Left: 205.798+/-0.027 χ^2/NDF : 1947403.5/40

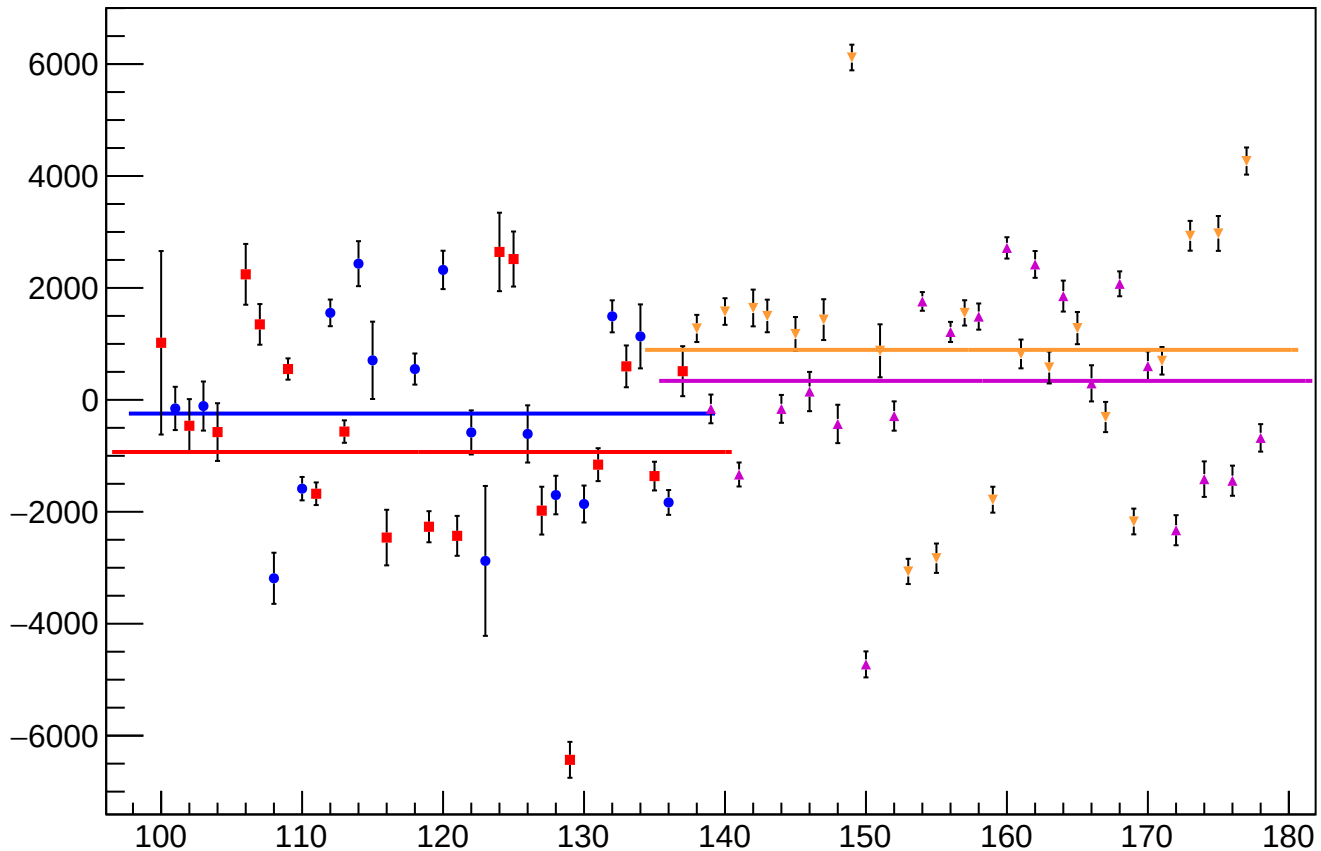
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 197.508+/-0.031 χ^2/NDF :1876581.2/36

Out: 202.442+/-0.031 χ^2/NDF :2502951.1/39

All: 199.950+/-0.022 χ^2/NDF : 4392164.3/76

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 893.333 ± 57.743 χ^2/NDF : 1690.3/20

Right Out: -931.272 ± 74.206 χ^2/NDF : 609.7/18

Left In: 339.138 ± 53.899 χ^2/NDF : 1187.8/19

Left: 597.180 ± 39.401 χ^2/NDF : 2927.3/40

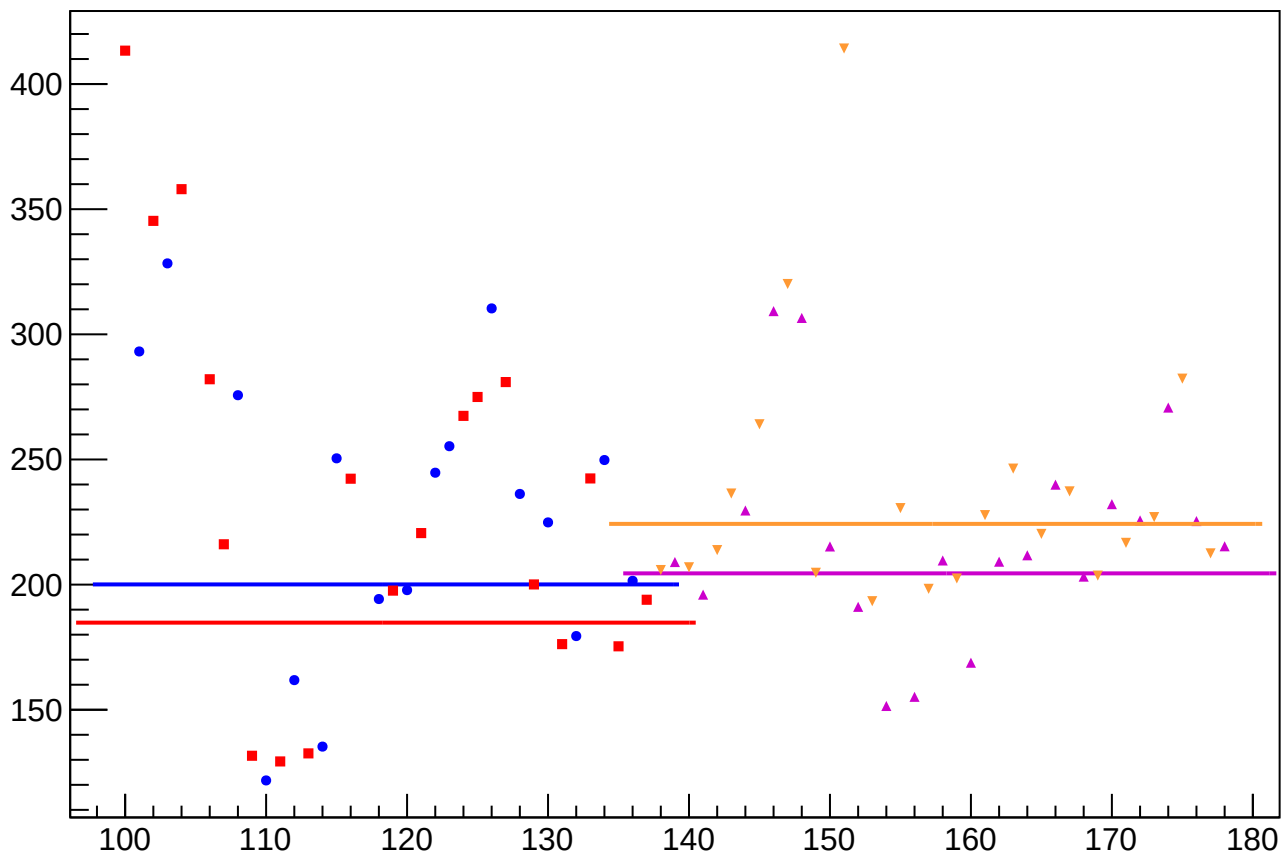
Right: -619.742 ± 54.837 χ^2/NDF : 1040.0/35

In: 161.096 ± 44.940 χ^2/NDF : 1615.0/36

Out: 205.195 ± 45.571 χ^2/NDF : 2676.6/39

All: 182.838 ± 31.998 χ^2/NDF : 4292.1/76

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 224.266+/-0.041 χ^2/NDF : 728969.2/20

Right Out: 184.807+/-0.052 χ^2/NDF : 1318267.6/18

Left In: 204.495+/-0.038 χ^2/NDF : 976132.7/19

Left: 213.700+/-0.028 χ^2/NDF : 1830402.2/40

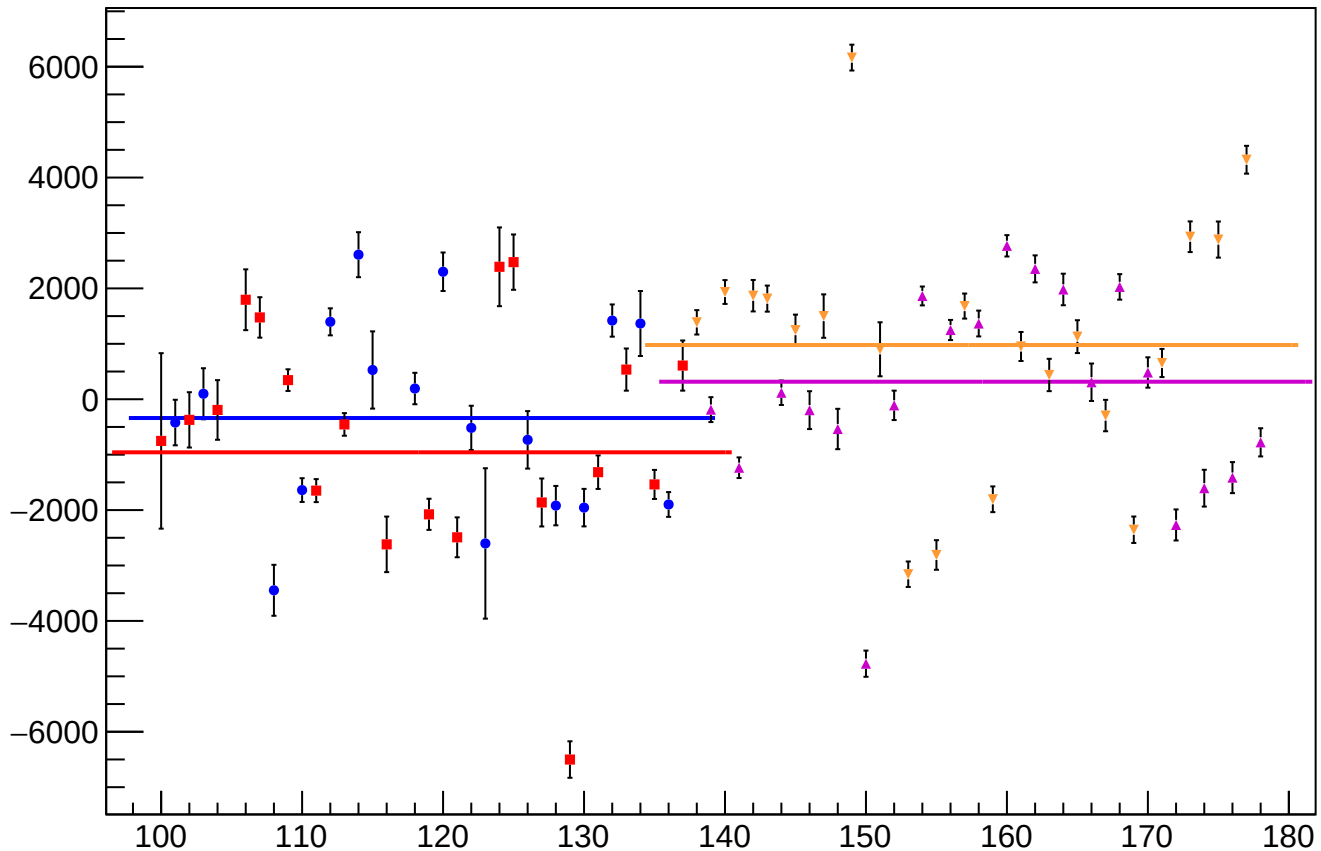
Right: 191.739+/-0.039 χ^2/NDF : 2275022.2/35

In: 203.148+/-0.032 χ^2/NDF : 1898534.8/36

Out: 209.384+/-0.032 χ^2/NDF : 2399462.1/39

All: 206.223+/-0.023 χ^2/NDF : 4316983.0/76

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966±/83.123 χ^2/NDF : 389.5/16

Left Out: 978.190±/57.051 χ^2/NDF :1702.6/20

Right Out: -957.615±/75.749 χ^2/NDF : 570.3/18

Left In: 316.098±/53.641 χ^2/NDF :1174.7/19

Left: 626.769±/39.080 χ^2/NDF : 2948.7/40

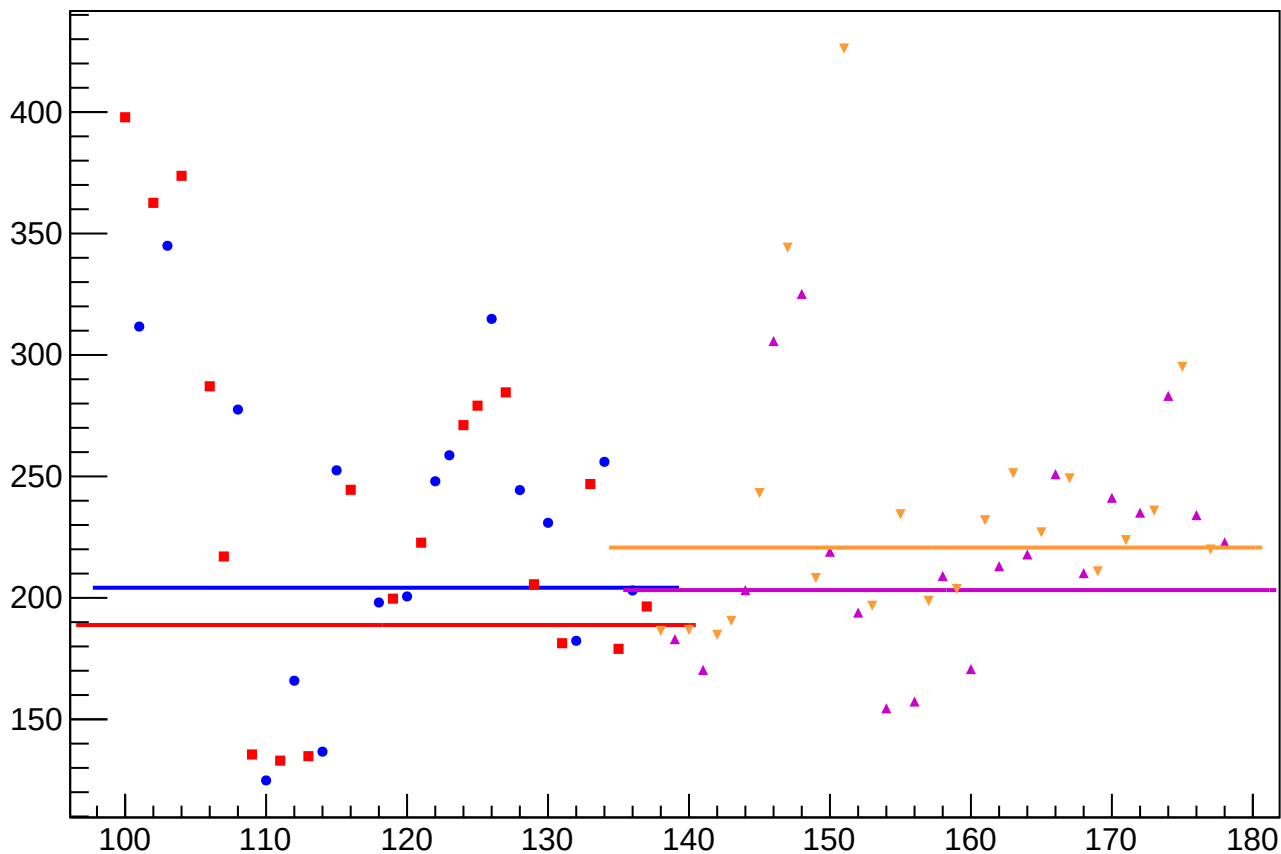
Right: -676.943±/55.988 χ^2/NDF : 990.0/35

In: 123.504±/45.071 χ^2/NDF :1608.0/36

Out: 277.546±/45.571 χ^2/NDF :2689.6/39

All: 199.675±/32.046 χ^2/NDF : 4303.3/76

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 220.706+/-0.040 χ^2/NDF : 953625.9/20

Right Out: 188.821+/-0.054 χ^2/NDF : 1314891.2/18

Left In: 203.210+/-0.038 χ^2/NDF : 1109864.5/19

Left: 211.420+/-0.028 χ^2/NDF : 2163322.4/40

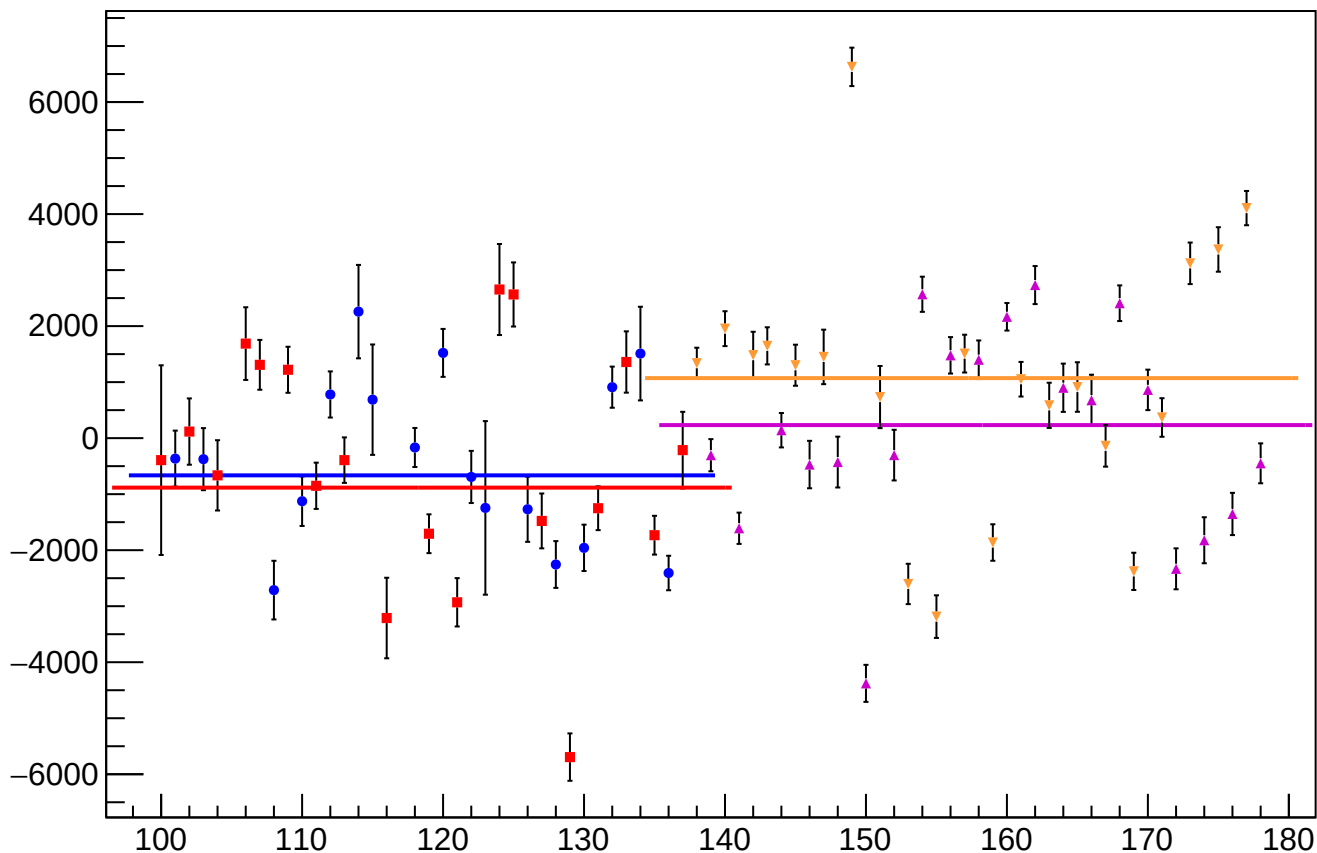
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 203.494+/-0.032 χ^2/NDF : 2057493.2/36

Out: 209.165+/-0.032 χ^2/NDF : 2494621.6/39

All: 206.298+/-0.023 χ^2/NDF : 4567774.3/76

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383 ± 113.949 $\chi^2/\text{NDF}: 154.3/16$

Left Out: 1071.623 ± 77.803 $\chi^2/\text{NDF}: 875.5/20$

Right Out: -883.255 ± 110.875 $\chi^2/\text{NDF}: 320.1/18$

Left In: 232.937 ± 76.837 $\chi^2/\text{NDF}: 594.4/19$

Left: 647.043 ± 54.670 $\chi^2/\text{NDF}: 1528.7/40$

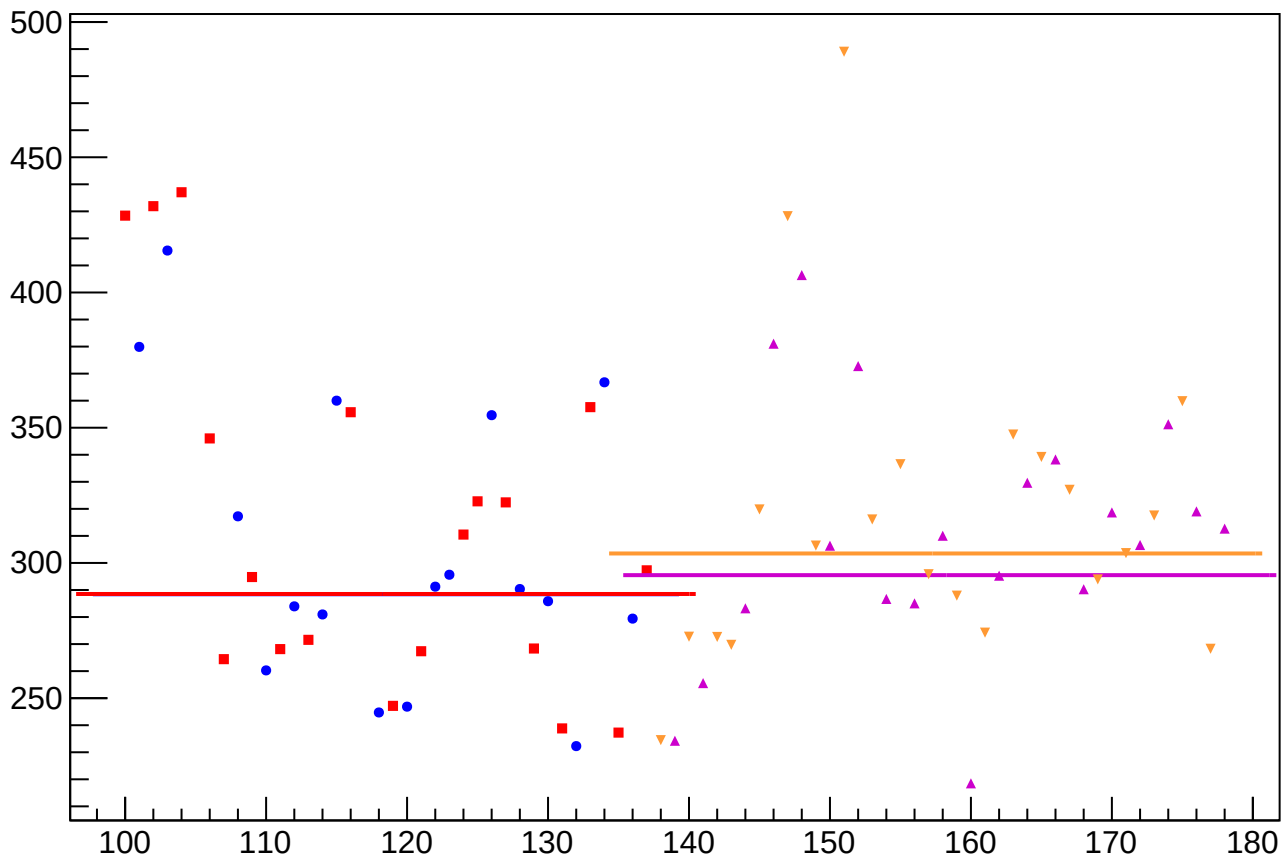
Right: -776.811 ± 79.465 $\chi^2/\text{NDF}: 476.3/35$

In: -47.541 ± 63.707 $\chi^2/\text{NDF}: 791.3/36$

Out: 426.625 ± 63.687 $\chi^2/\text{NDF}: 1403.8/39$

All: 189.615 ± 45.040 $\chi^2/\text{NDF}: 2222.9/76$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428+/-0.081 χ^2/NDF : 339820.0/16

Left Out: 303.501+/-0.055 χ^2/NDF : 691993.3/20

Right Out: 288.522+/-0.078 χ^2/NDF : 455410.1/18

Left In: 295.488+/-0.054 χ^2/NDF : 690766.0/19

Left: 299.444+/-0.039 χ^2/NDF : 1393498.4/40

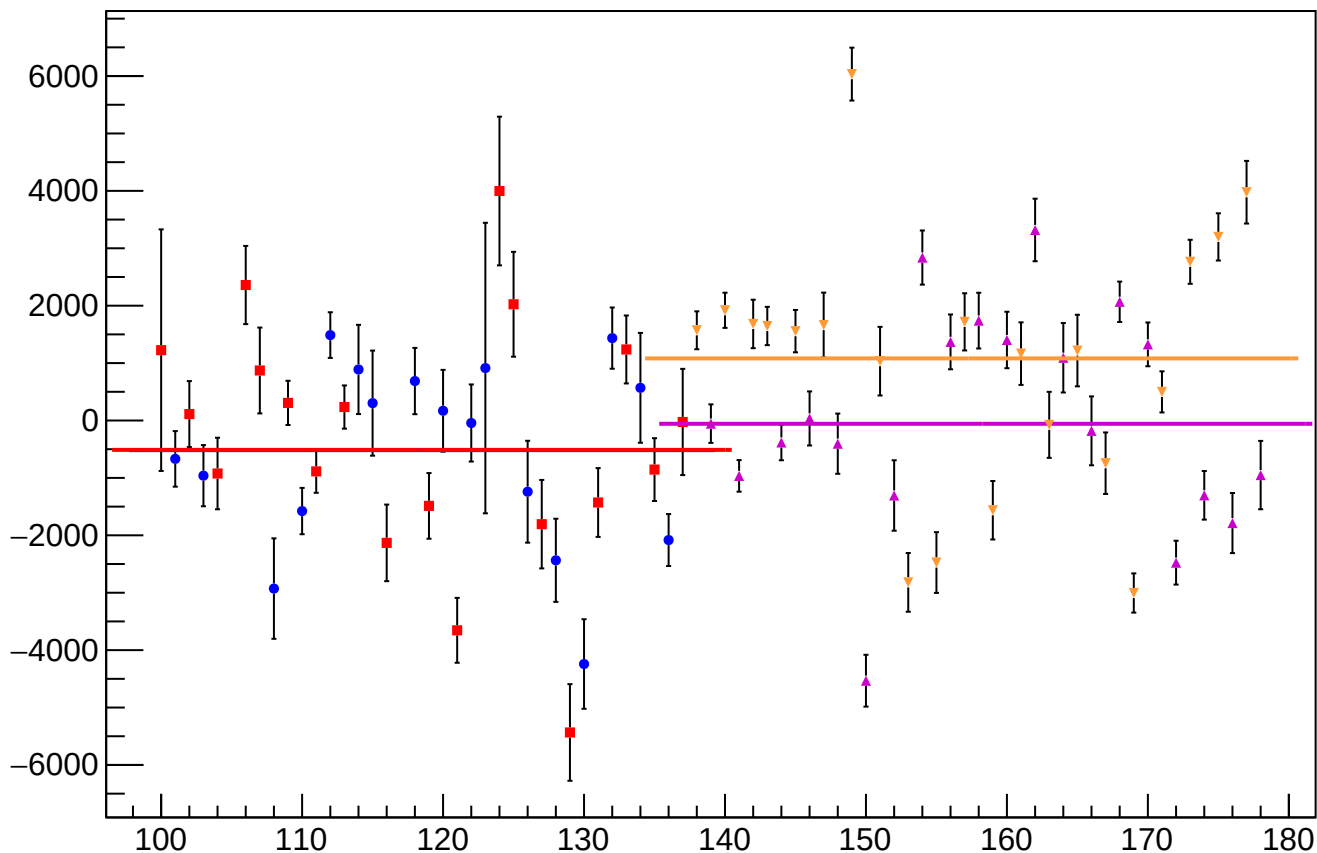
Right: 288.476+/-0.056 χ^2/NDF : 795230.9/35

In: 293.281+/-0.045 χ^2/NDF : 1035863.5/36

Out: 298.559+/-0.045 χ^2/NDF : 1171862.2/39

All: 295.921+/-0.032 χ^2/NDF : 2214590.1/76

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894+/-147.326 χ^2/NDF : 108.0/16

Left Out: 1081.831+/-94.240 χ^2/NDF : 500.2/20

Right Out: -511.851+/-135.798 χ^2/NDF : 141.3/18

Left In: -56.999+/-96.117 χ^2/NDF : 337.6/19

Left: 523.642+/-67.292 χ^2/NDF : 909.4/40

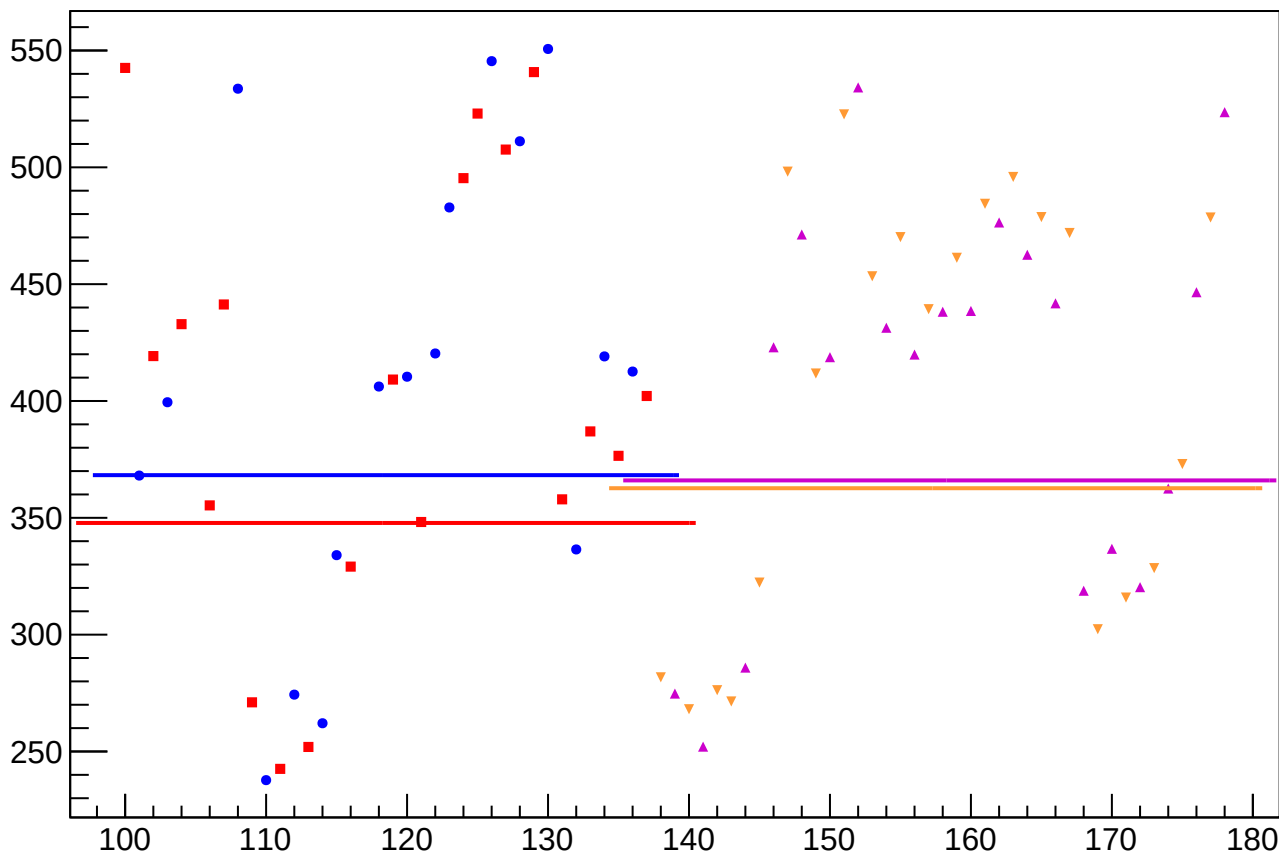
Right: -513.708+/-99.851 χ^2/NDF : 249.3/35

In: -194.006+/-80.500 χ^2/NDF : 452.5/36

Out: 563.801+/-77.423 χ^2/NDF : 734.4/39

All: 199.655+/-55.802 χ^2/NDF : 1232.9/76

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 362.670+/-0.067 χ^2/NDF : 1680892.7/20

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 366.012+/-0.068 χ^2/NDF : 1492638.0/19

Left: 364.308+/-0.048 χ^2/NDF : 3174762.9/40

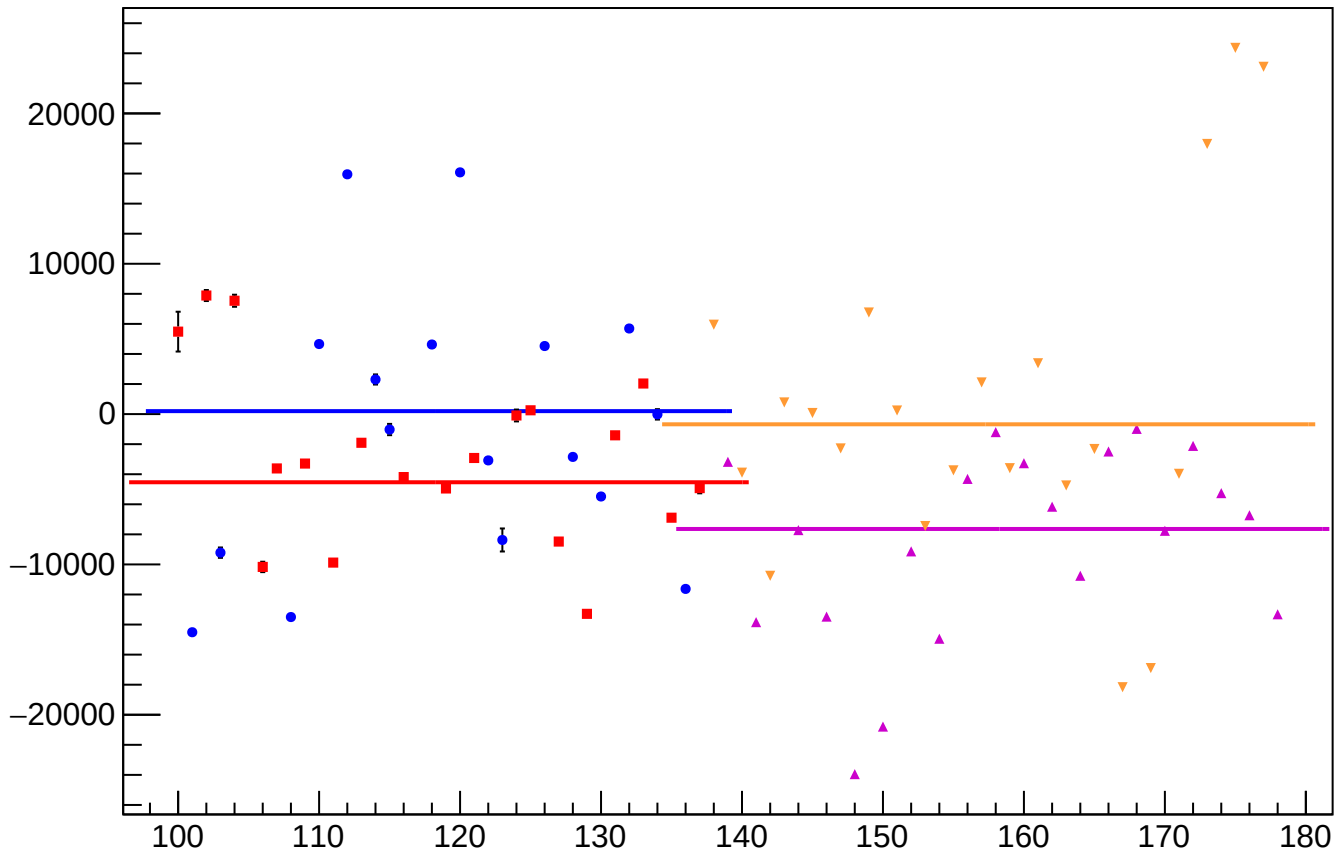
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 366.684+/-0.057 χ^2/NDF : 2263082.5/36

Out: 357.838+/-0.055 χ^2/NDF : 2518937.4/39

All: 362.089+/-0.039 χ^2/NDF : 4794567.5/76

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -679.019 ± 44.315 $\chi^2/\text{NDF}: 52869.3/20$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7641.492 ± 45.723 $\chi^2/\text{NDF}: 17736.2/19$

Left: -4051.381 ± 31.822 $\chi^2/\text{NDF}: 82561.9/40$

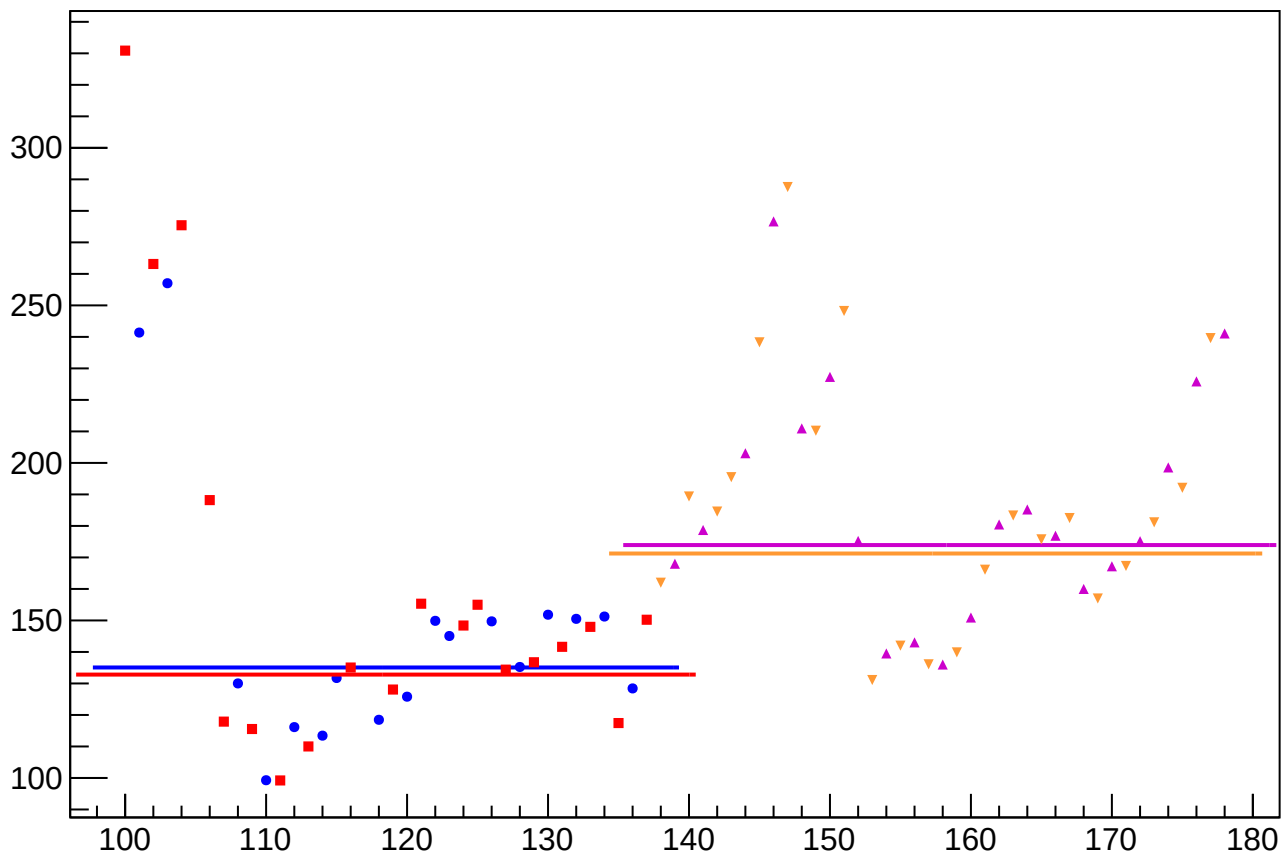
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4424.207 ± 35.107 $\chi^2/\text{NDF}: 60457.3/36$

Out: -2284.355 ± 33.853 $\chi^2/\text{NDF}: 63498.0/39$

All: -3315.387 ± 24.369 $\chi^2/\text{NDF}: 125880.4/7$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 171.246 $\pm$ 0.031 χ^2 /NDF: 1181064.4/20

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 173.928 $\pm$ 0.032 χ^2 /NDF: 977401.3/19

Left: 172.545 $\pm$ 0.023 χ^2 /NDF: 2162014.3/40

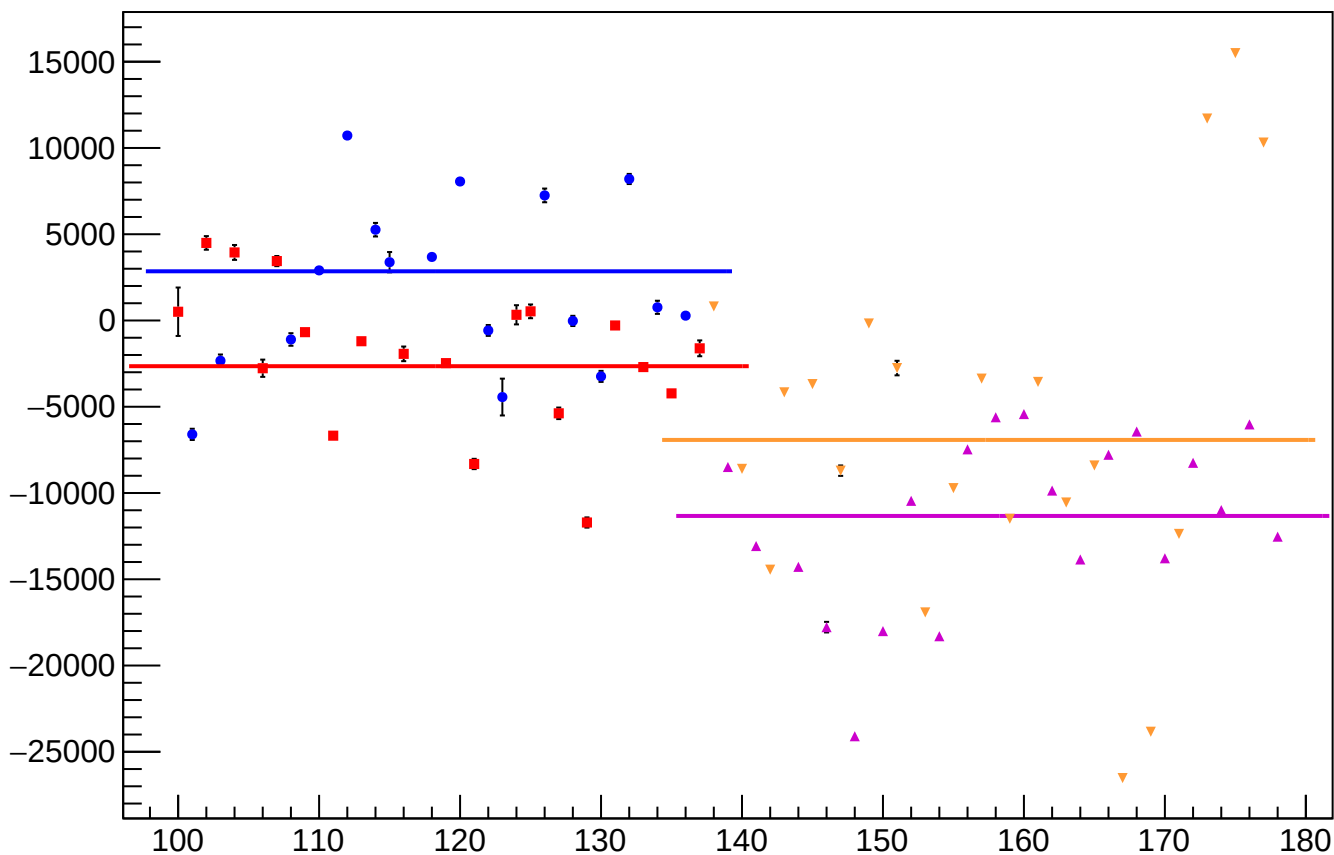
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 157.980 $\pm$ 0.025 χ^2 /NDF: 2228940.1/36

Out: 155.243 $\pm$ 0.024 χ^2 /NDF: 2638559.4/39

All: 156.562 $\pm$ 0.017 χ^2 /NDF: 4873794.8/76

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2 /NDF: 4178.1/16

Left Out: -6923.044+/-49.472 χ^2 /NDF:44540.6/20

Right Out: -2649.142+/-65.731 χ^2 /NDF: 3175.7/18

Left In: -11329.195+/-46.225 χ^2 /NDF:11325.5/19

Left: -9275.431+/-33.776 χ^2 /NDF: 60101.1/40

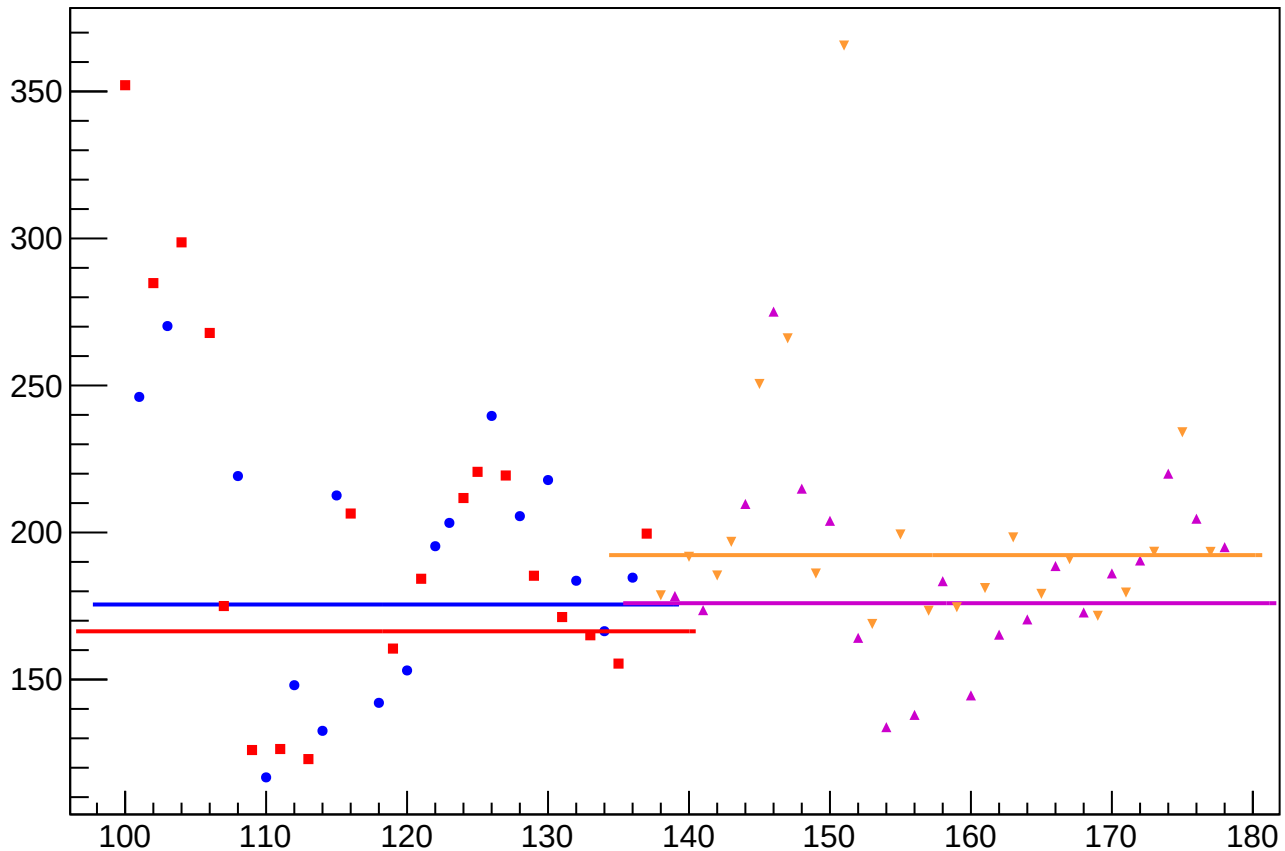
Right: -100.998+/-48.156 χ^2 /NDF: 10597.9/35

In: -7087.079+/-38.698 χ^2 /NDF:43656.5/36

Out: -5377.511+/-39.527 χ^2 /NDF:50415.2/39

All: -6250.410+/-27.652 χ^2 /NDF: 95026.9/76

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.308+/-0.035 χ^2/NDF : 711123.1/20

Right Out: 166.393+/-0.046 χ^2/NDF : 929534.5/18

Left In: 175.955+/-0.033 χ^2/NDF : 822884.2/19

Left: 183.577+/-0.024 χ^2/NDF : 1650666.7/40

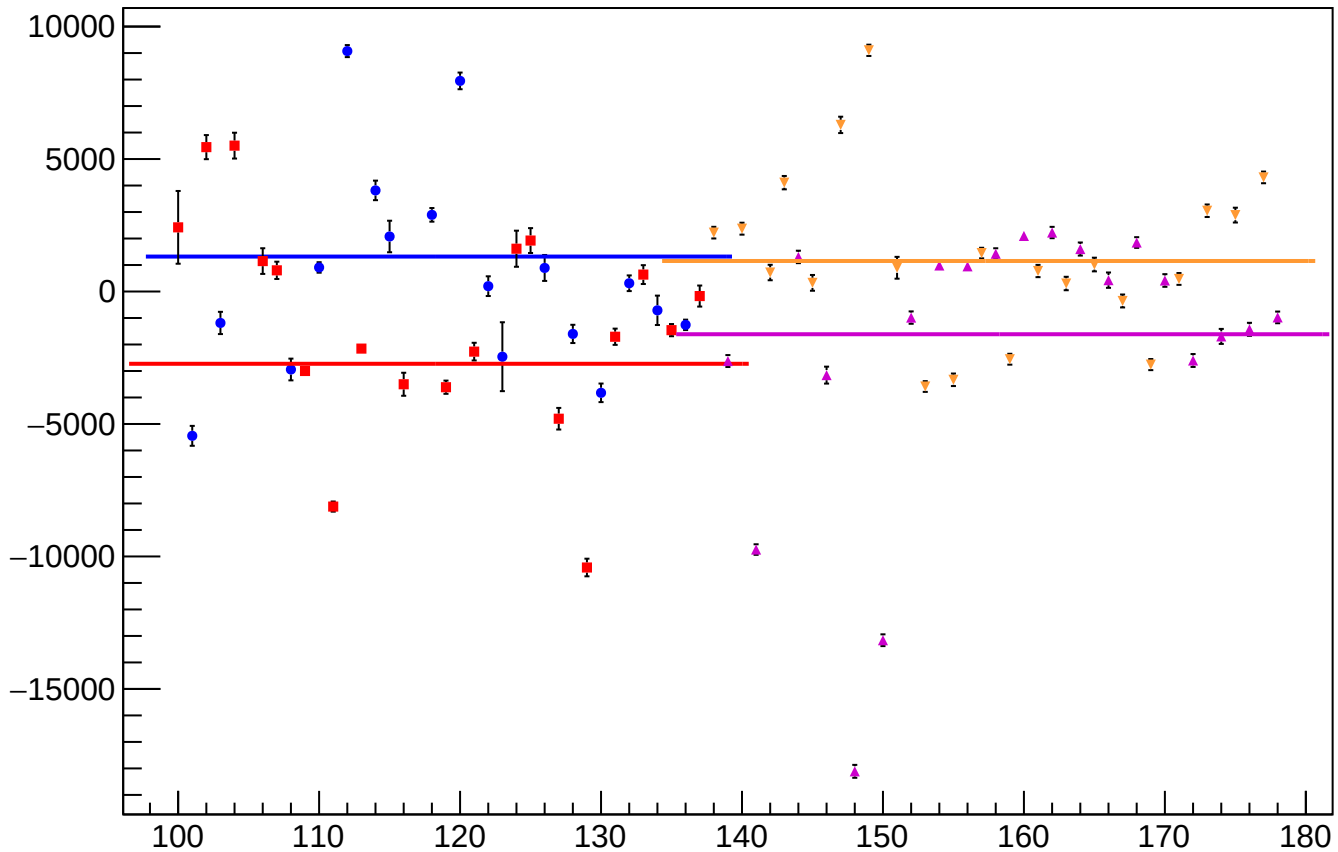
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 175.823+/-0.027 χ^2/NDF : 1512580.9/36

Out: 182.936+/-0.028 χ^2/NDF : 1839112.6/39

All: 179.304+/-0.020 χ^2/NDF : 3384761.4/76

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009 ± 77.146 $\chi^2/\text{NDF}: 2667.0/16$

Left Out: 1152.137 ± 52.102 $\chi^2/\text{NDF}: 3820.0/20$

Right Out: -2727.798 ± 70.029 $\chi^2/\text{NDF}: 2495.9/18$

Left In: -1612.533 ± 48.463 $\chi^2/\text{NDF}: 11312.3/19$

Left: -330.100 ± 35.485 $\chi^2/\text{NDF}: 16641.9/40$

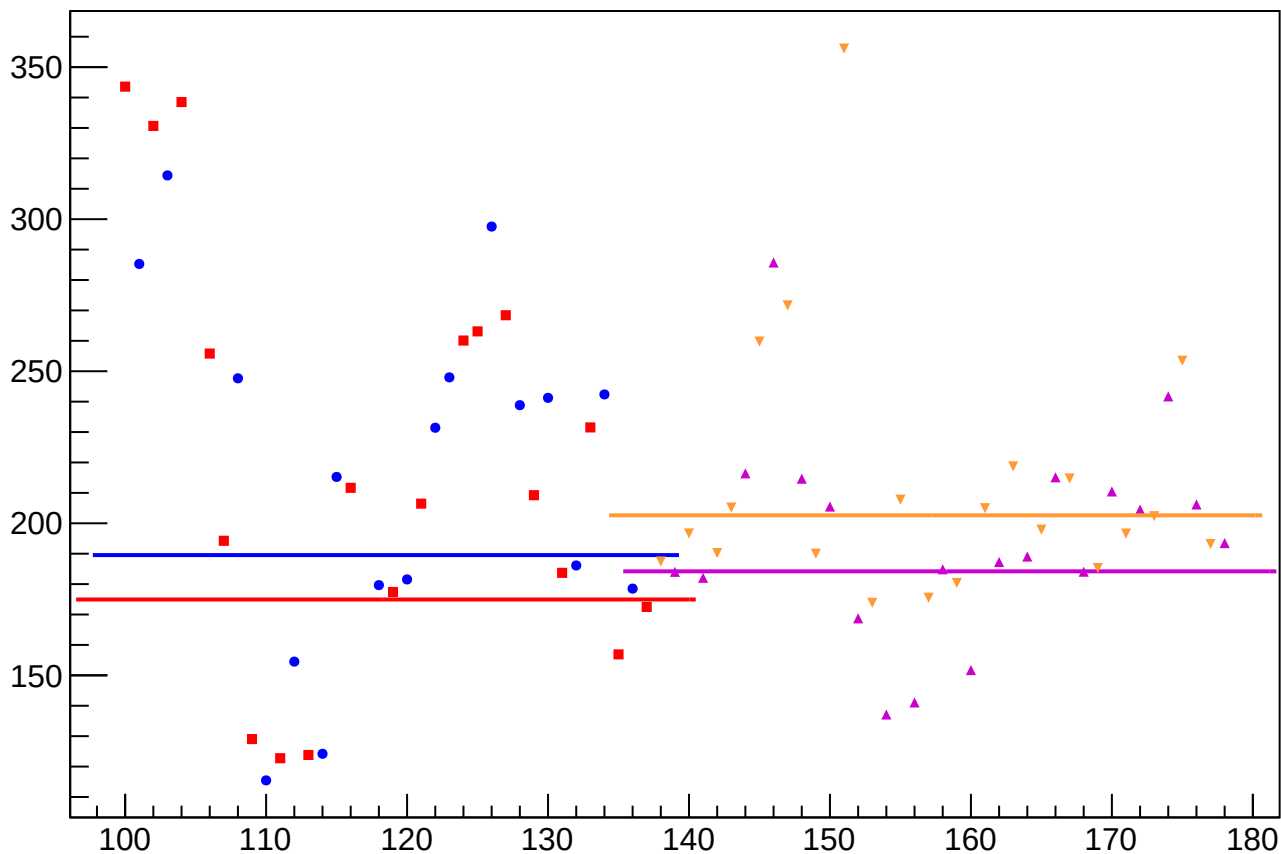
Right: -899.614 ± 51.852 $\chi^2/\text{NDF}: 6671.5/35$

In: -783.003 ± 41.037 $\chi^2/\text{NDF}: 15014.7/36$

Out: -230.307 ± 41.801 $\chi^2/\text{NDF}: 8291.8/39$

All: -511.752 ± 29.284 $\chi^2/\text{NDF}: 23395.6/76$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.623 $\pm$ 0.037 χ^2 /NDF: 672848.7/20

Right Out: 174.944 $\pm$ 0.050 χ^2 /NDF: 1297106.6/18

Left In: 184.200 $\pm$ 0.034 χ^2 /NDF: 867643.5/19

Left: 192.746 $\pm$ 0.025 χ^2 /NDF: 1674556.4/40

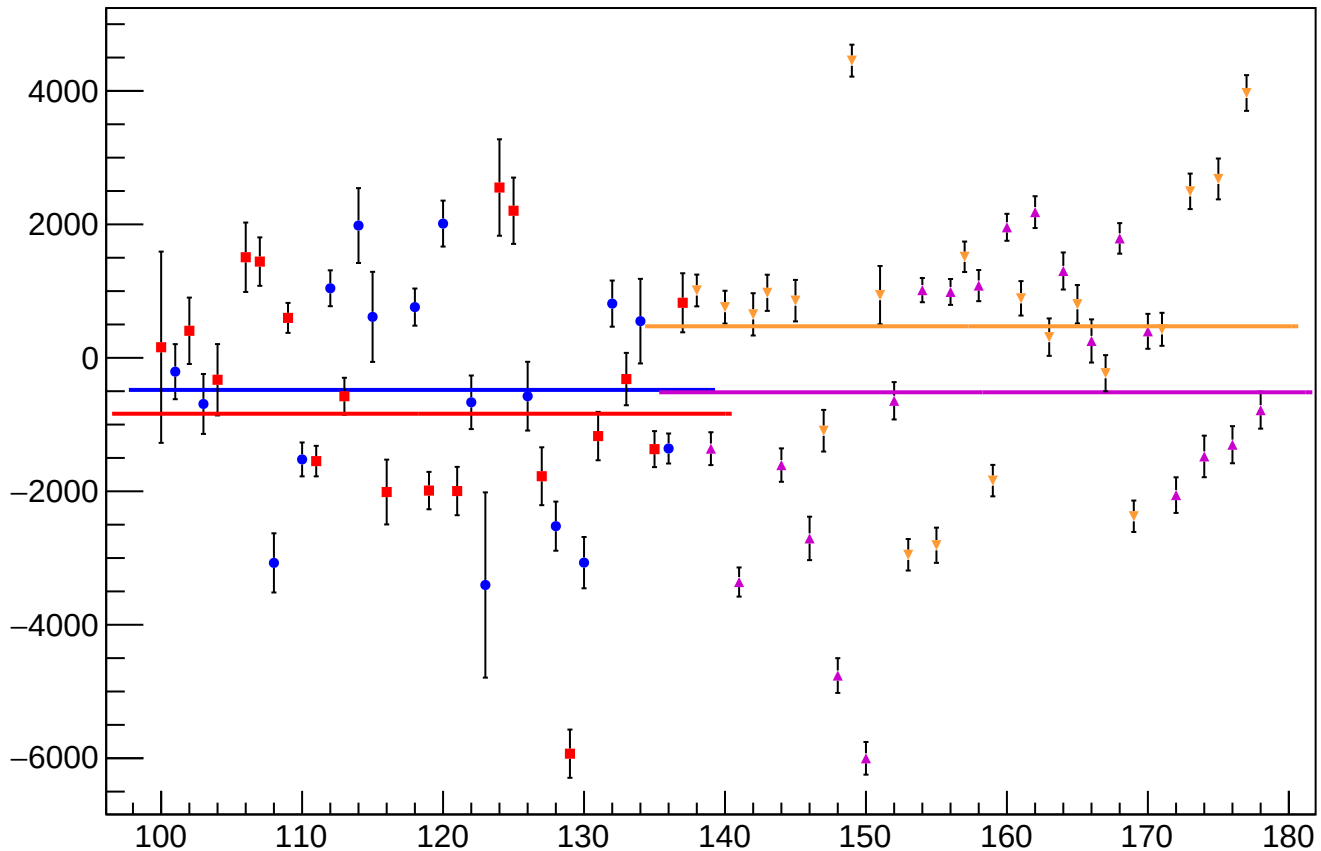
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 185.713 $\pm$ 0.029 χ^2 /NDF: 1855270.1/36

Out: 192.761 $\pm$ 0.030 χ^2 /NDF: 2171079.1/39

All: 189.172 $\pm$ 0.021 χ^2 /NDF: 4055303.6/76

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578±/88.640 χ^2/NDF : 290.7/16

Left Out: 472.752±/58.004 χ^2/NDF :1234.5/20

Right Out: -837.442±/82.243 χ^2/NDF : 435.3/18

Left In: -516.322±/54.969 χ^2/NDF :1682.9/19

Left: -48.335±/39.899 χ^2/NDF : 3070.5/40

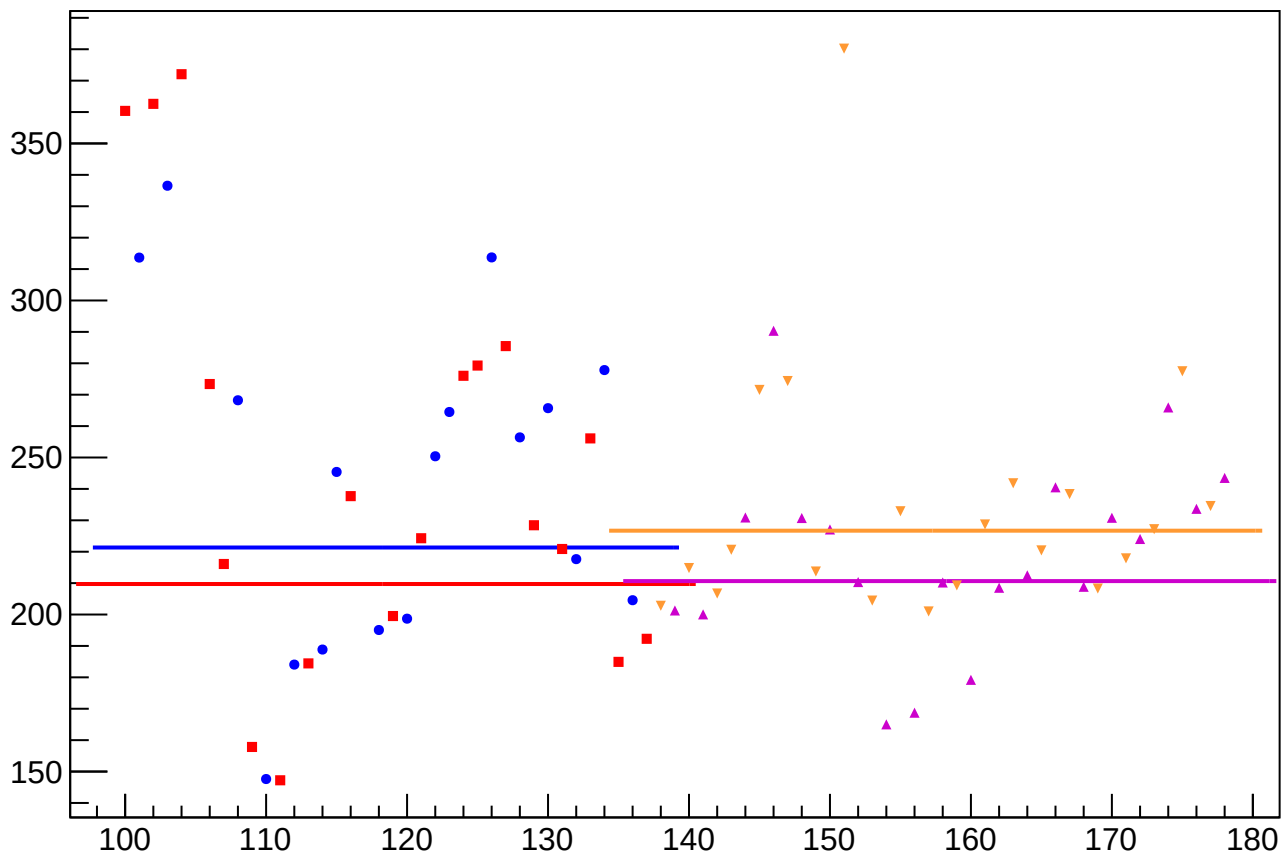
Right: -672.351±/60.290 χ^2/NDF : 734.7/35

In: -506.394±/46.716 χ^2/NDF :1973.7/36

Out: 37.529±/47.401 χ^2/NDF :1839.2/39

All: -238.393±/33.273 χ^2/NDF : 3879.8/76

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342+/-0.063 χ^2/NDF : 645688.1/16

Left Out: 226.699+/-0.041 χ^2/NDF : 512754.4/20

Right Out: 209.717+/-0.058 χ^2/NDF : 883917.7/18

Left In: 210.646+/-0.039 χ^2/NDF : 569089.0/19

Left: 218.241+/-0.028 χ^2/NDF : 1162542.8/40

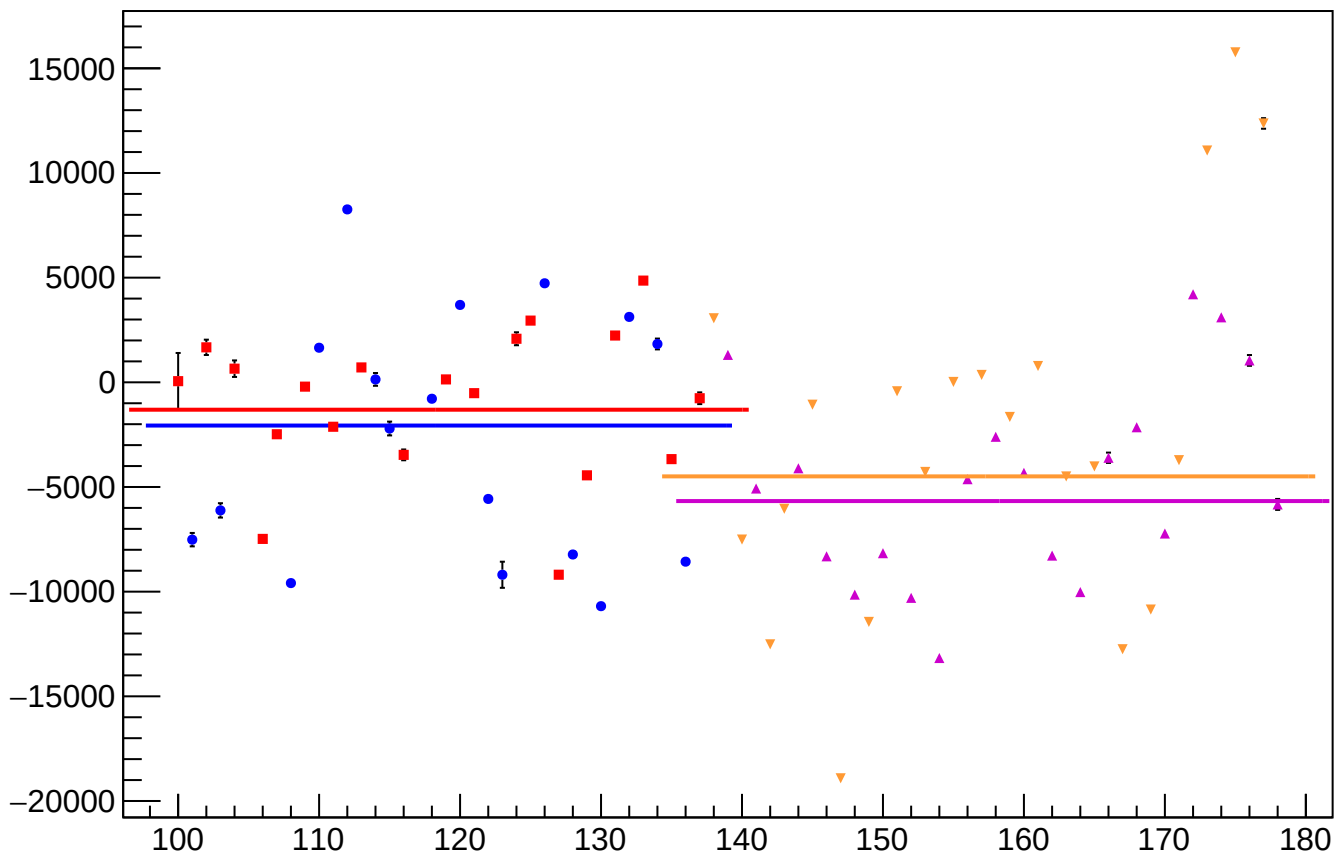
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 213.617+/-0.033 χ^2/NDF : 1235809.3/36

Out: 221.057+/-0.034 χ^2/NDF : 1453618.5/39

All: 217.283+/-0.024 χ^2/NDF : 2714425.1/76

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 $\chi^2/\text{NDF}: 16533.3/16$

Left Out: -4493.111+/-34.797 $\chi^2/\text{NDF}: 49444.5/20$

Right Out: -1308.512+/-45.001 $\chi^2/\text{NDF}: 5894.4/18$

Left In: -5672.812+/-35.753 $\chi^2/\text{NDF}: 14090.8/19$

Left: -5066.981+/-24.936 $\chi^2/\text{NDF}: 64094.5/40$

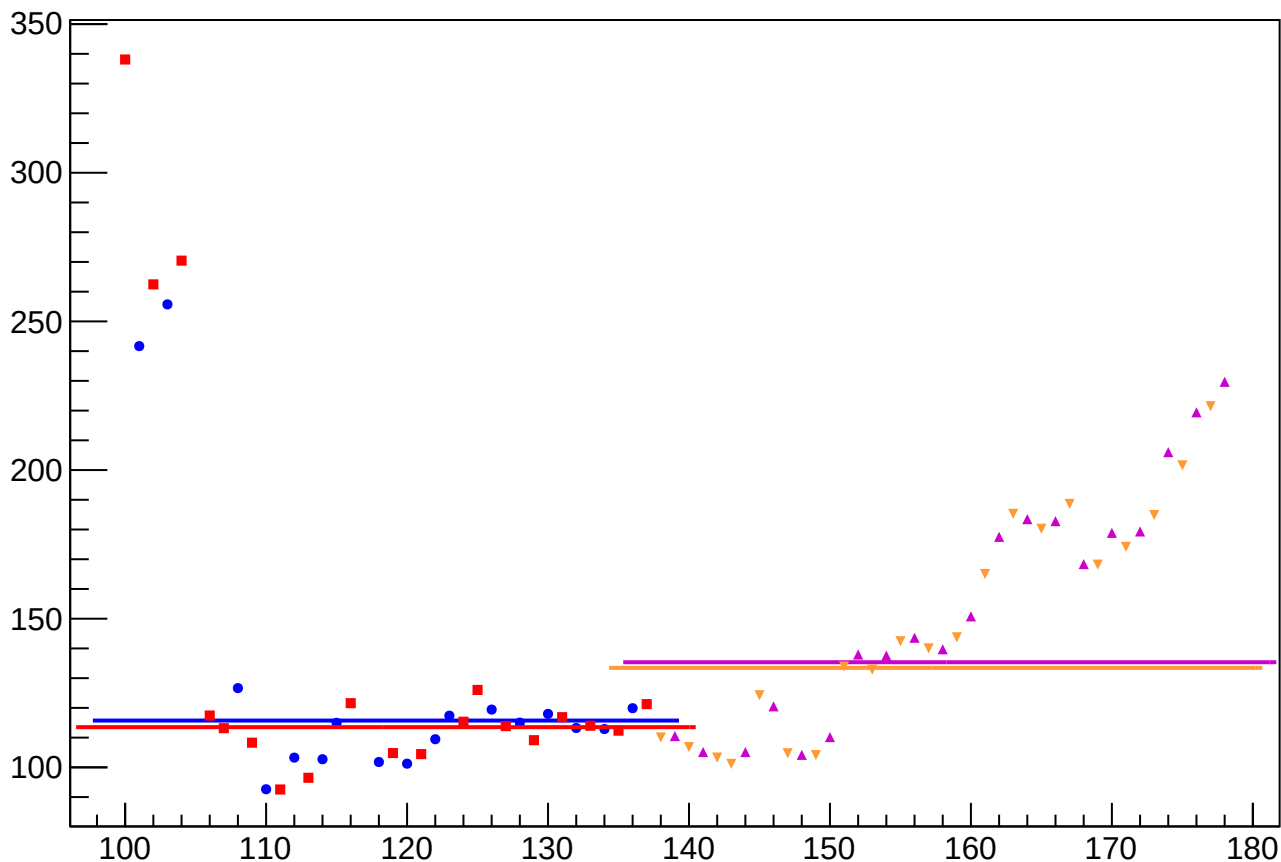
Right: -1667.825+/-32.610 $\chi^2/\text{NDF}: 22561.9/35$

In: -4361.842+/-28.526 $\chi^2/\text{NDF}: 34324.1/36$

Out: -3301.488+/-27.527 $\chi^2/\text{NDF}: 58473.0/39$

All: -3812.771+/-19.809 $\chi^2/\text{NDF}: 93512.5/76$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 ± 0.033 $\chi^2/\text{NDF}: 744017.7/16$

Left Out: 133.469 ± 0.025 $\chi^2/\text{NDF}: 1708605.7/20$

Right Out: 113.519 ± 0.032 $\chi^2/\text{NDF}: 796640.6/18$

Left In: 135.355 ± 0.025 $\chi^2/\text{NDF}: 1743908.8/19$

Left: 134.387 ± 0.018 $\chi^2/\text{NDF}: 3455372.9/40$

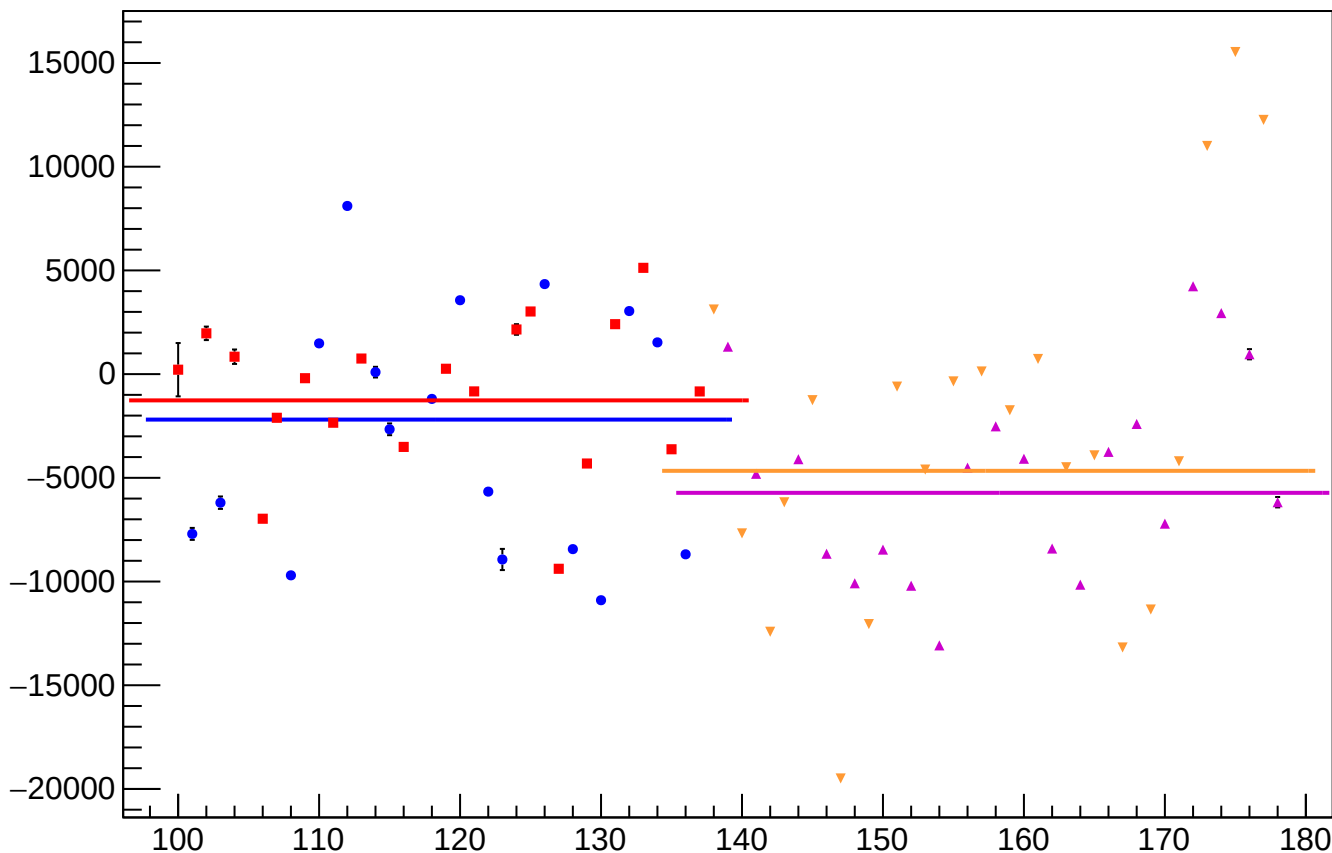
Right: 114.574 ± 0.023 $\chi^2/\text{NDF}: 1542972.7/35$

In: 128.228 ± 0.020 $\chi^2/\text{NDF}: 2706675.4/36$

Out: 126.004 ± 0.019 $\chi^2/\text{NDF}: 2751240.9/39$

All: 127.076 ± 0.014 $\chi^2/\text{NDF}: 5464207.6/76$

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327+/-39.944 χ^2/NDF : 22813.5/16

Left Out: -4662.617+/-31.581 χ^2/NDF : 58286.5/20

Right Out: -1266.189+/-38.048 χ^2/NDF : 8550.5/18

Left In: -5723.519+/-32.815 χ^2/NDF : 16893.7/19

Left: -5172.749+/-22.755 χ^2/NDF : 75722.9/40

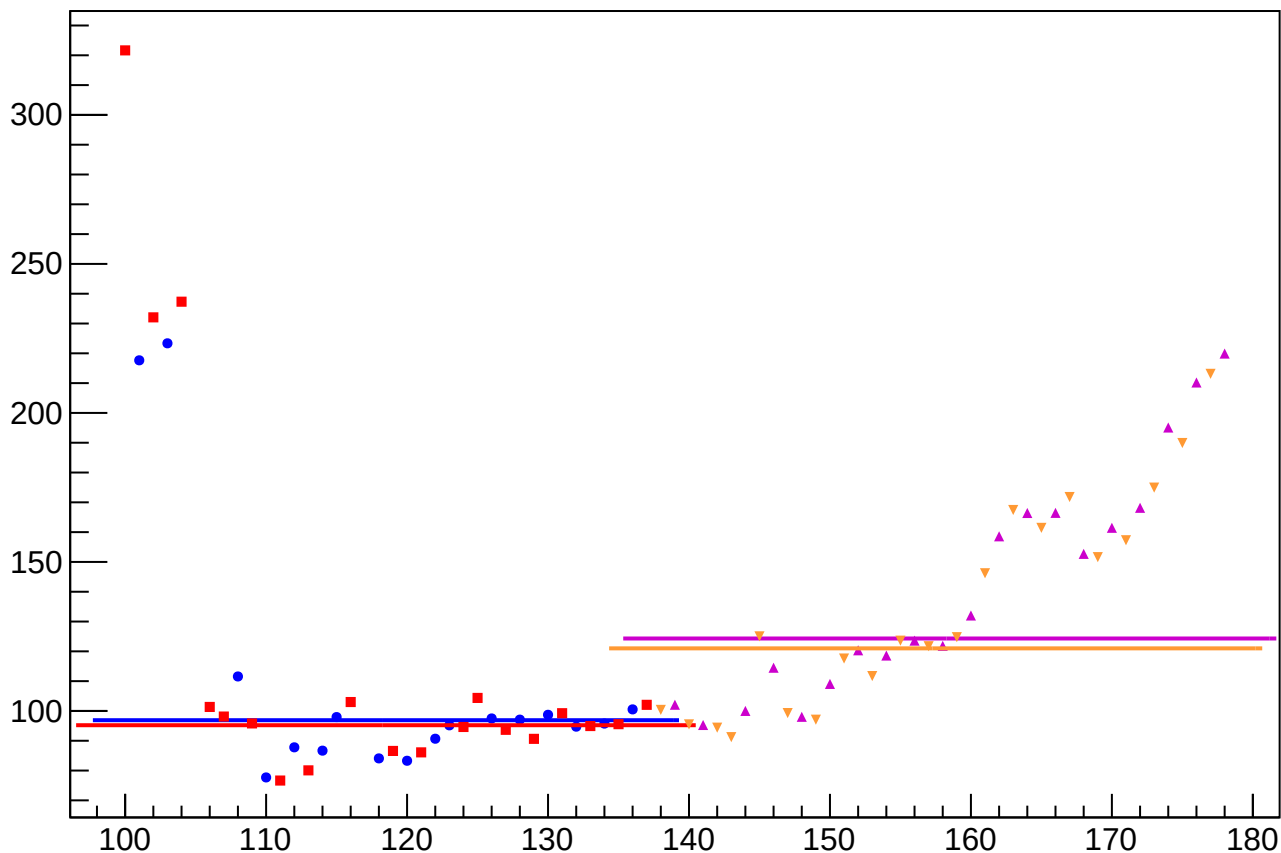
Right: -1706.759+/-27.550 χ^2/NDF : 31645.9/35

In: -4300.613+/-25.356 χ^2/NDF : 44373.3/36

Out: -3277.146+/-24.301 χ^2/NDF : 71555.0/39

All: -3767.144+/-17.544 χ^2/NDF : 116777.6/77

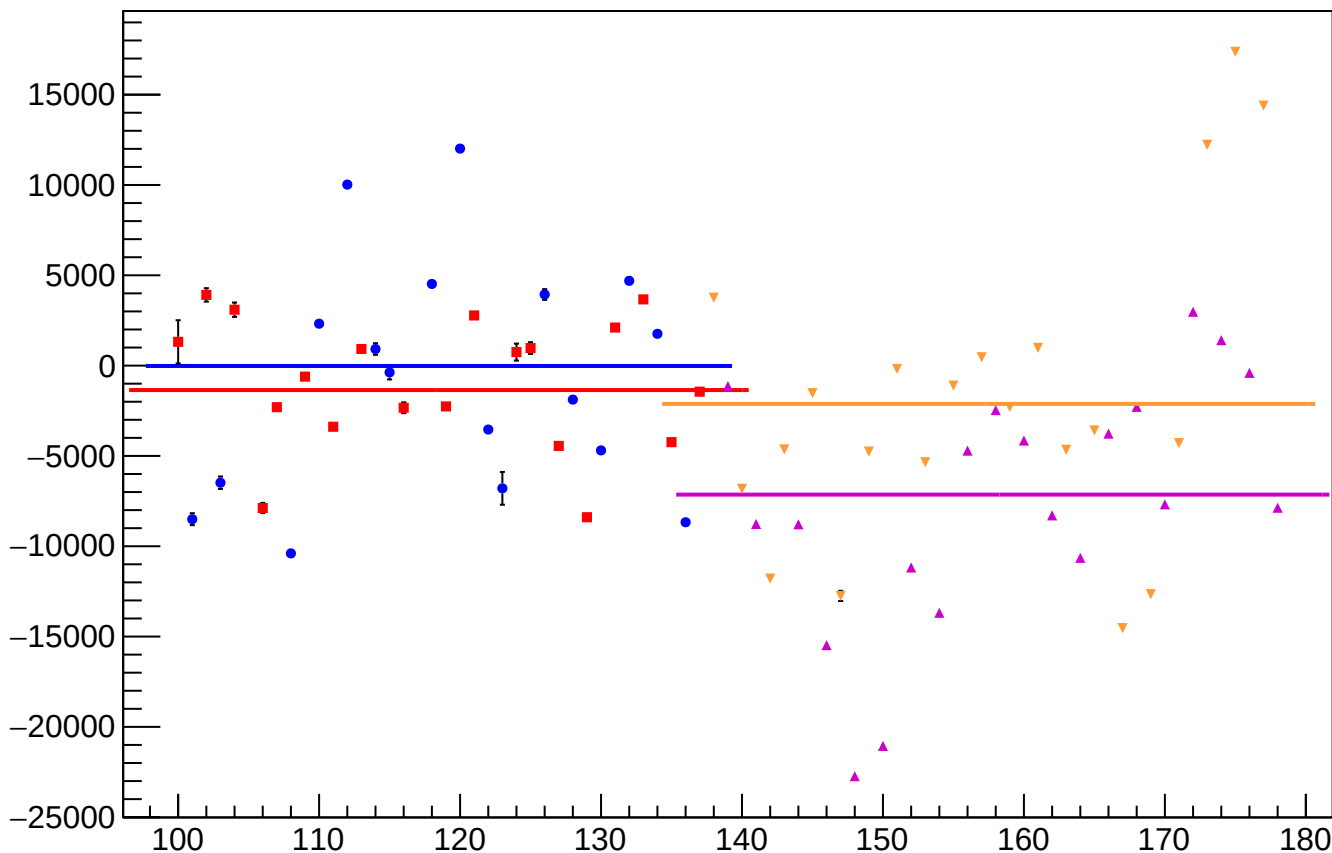
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894 ± 0.028 $\chi^2/\text{NDF}: 817229.9/16$
 Left Out: 121.001 ± 0.022 $\chi^2/\text{NDF}: 1712887.3/20$
 Right Out: 95.213 ± 0.027 $\chi^2/\text{NDF}: 859809.7/18$
 Left In: 124.311 ± 0.023 $\chi^2/\text{NDF}: 1658382.7/19$

Left: 122.593 ± 0.016 $\chi^2/\text{NDF}: 3381832.5/40$
 Right: 96.013 ± 0.019 $\chi^2/\text{NDF}: 1678895.4/35$
 In: 113.263 ± 0.018 $\chi^2/\text{NDF}: 3038181.8/36$
 Out: 110.482 ± 0.017 $\chi^2/\text{NDF}: 3116658.0/39$
 All: 111.813 ± 0.012 $\chi^2/\text{NDF}: 6167382.9/76$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -2120.408 ± 42.417 $\chi^2/\text{NDF}: 28414.2/20$

Right Out: -1353.461 ± 52.367 $\chi^2/\text{NDF}: 3837.2/18$

Left In: -7142.264 ± 44.445 $\chi^2/\text{NDF}: 17728.2/19$

Left: -4514.154 ± 30.685 $\chi^2/\text{NDF}: 52823.7/40$

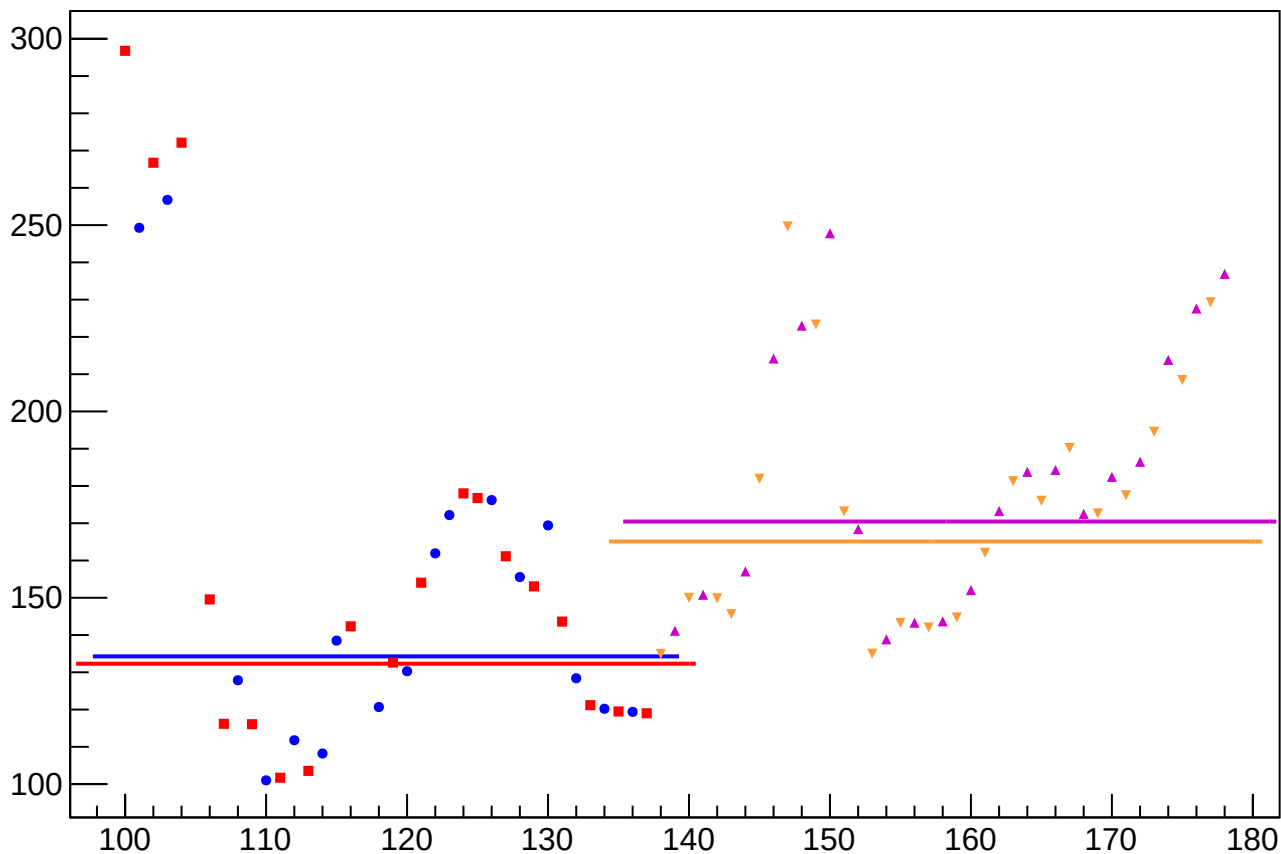
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4306.463 ± 34.480 $\chi^2/\text{NDF}: 44313.7/36$

Out: -1816.562 ± 32.961 $\chi^2/\text{NDF}: 32381.0/39$

All: -3005.457 ± 23.826 $\chi^2/\text{NDF}: 79419.4/76$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 165.096 $\pm$ 0.030 χ^2 /NDF: 891875.0/20

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 170.458 $\pm$ 0.031 χ^2 /NDF: 942274.8/19

Left: 167.652 $\pm$ 0.022 χ^2 /NDF: 1849382.5/40

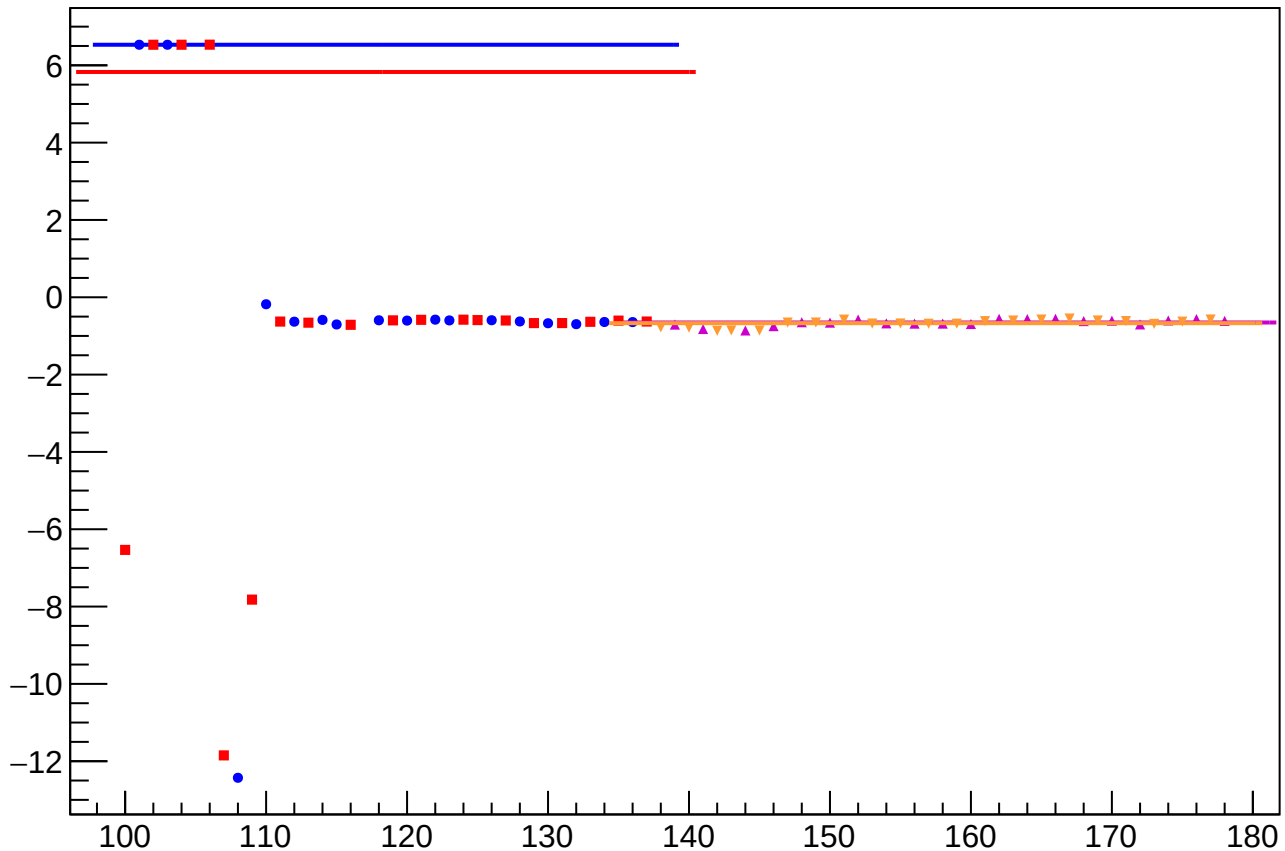
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 156.049 $\pm$ 0.024 χ^2 /NDF: 2258916.6/36

Out: 152.104 $\pm$ 0.023 χ^2 /NDF: 2235385.7/39

All: 153.988 $\pm$ 0.017 χ^2 /NDF: 4507978.3/76

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.670+/-0.000 χ^2/NDF : 139491885.6/20

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.653+/-0.000 χ^2/NDF : 112706612.9/19

Left: -0.661+/-0.000 χ^2/NDF : 254383237.1/40

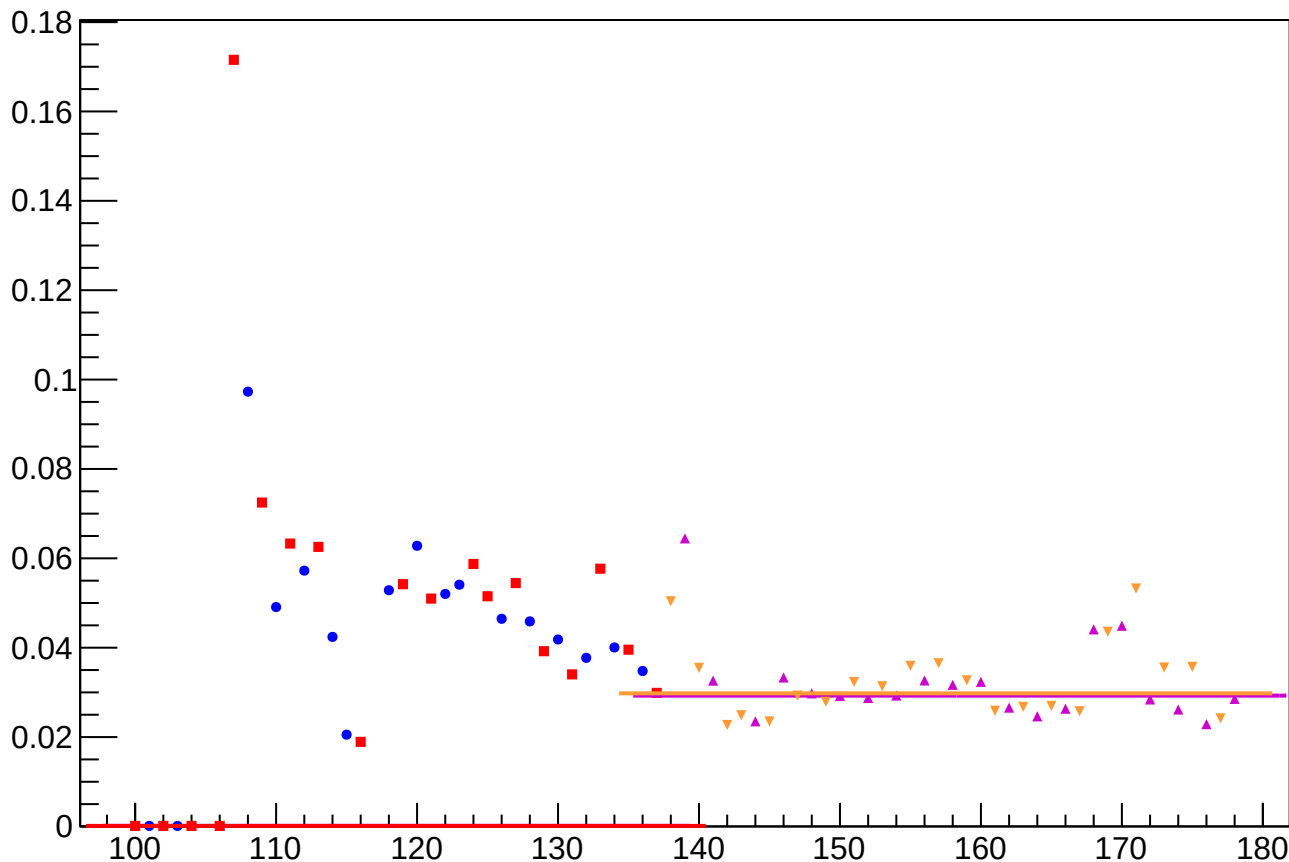
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/36

In: 6.530+/-0.000 χ^2/NDF : 854210248520.5/36

Out: 5.826+/-0.000 χ^2/NDF : 756534329893419.8/36

All: 6.154+/-0.000 χ^2/NDF : 77737809966310.5/72

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.030+/-0.000 χ^2/NDF : 1138239.7/20

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.029+/-0.000 χ^2/NDF : 1016374.7/19

Left: 0.030+/-0.000 χ^2/NDF : 2158310.1/40

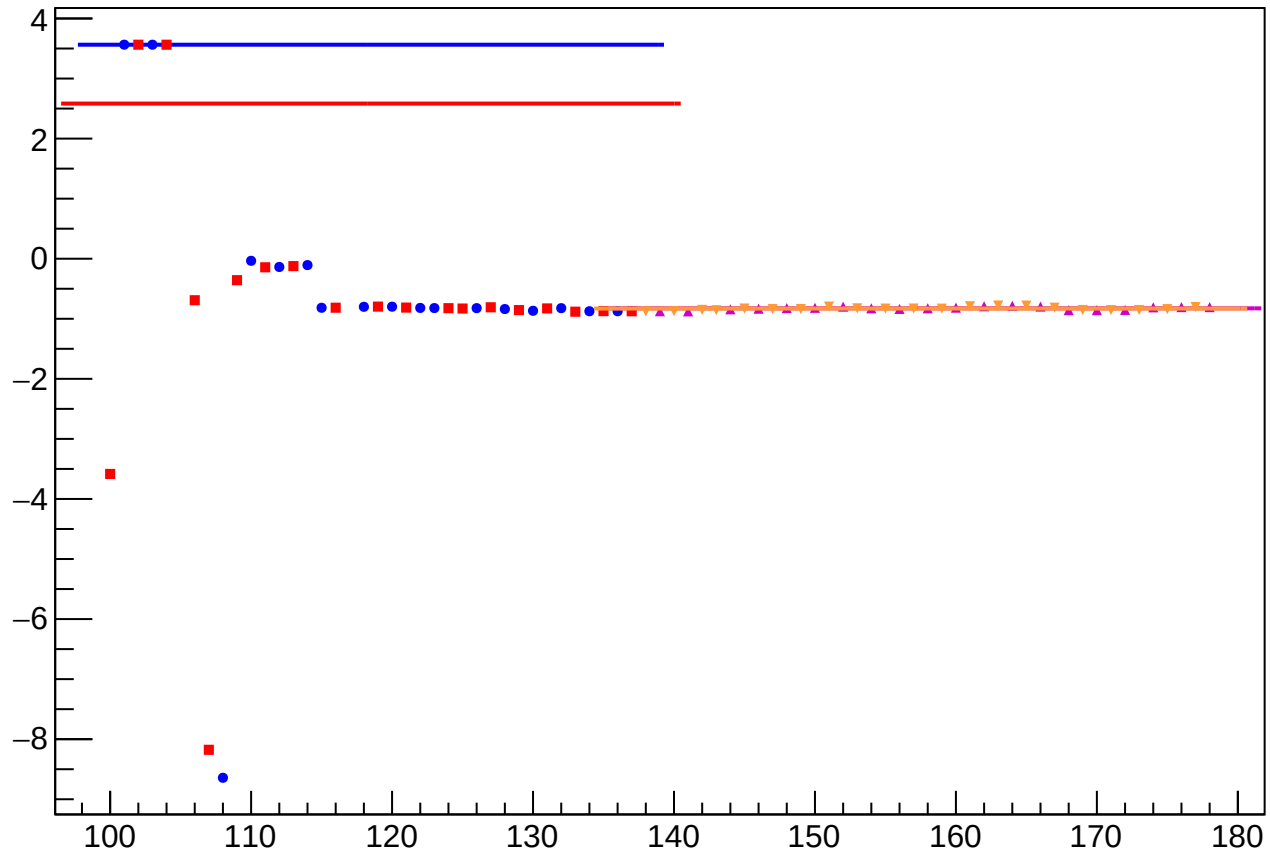
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 33956329.9/36

Out: 0.000+/-0.000 χ^2/NDF : 34923287.0/39

All: 0.000+/-0.000 χ^2/NDF : 68880104.0/76

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.829+/-0.000 χ^2/NDF : 153421661.0/20

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.826+/-0.000 χ^2/NDF : 135672573.0/19

Left: -0.828+/-0.000 χ^2/NDF : 289776621.2/40

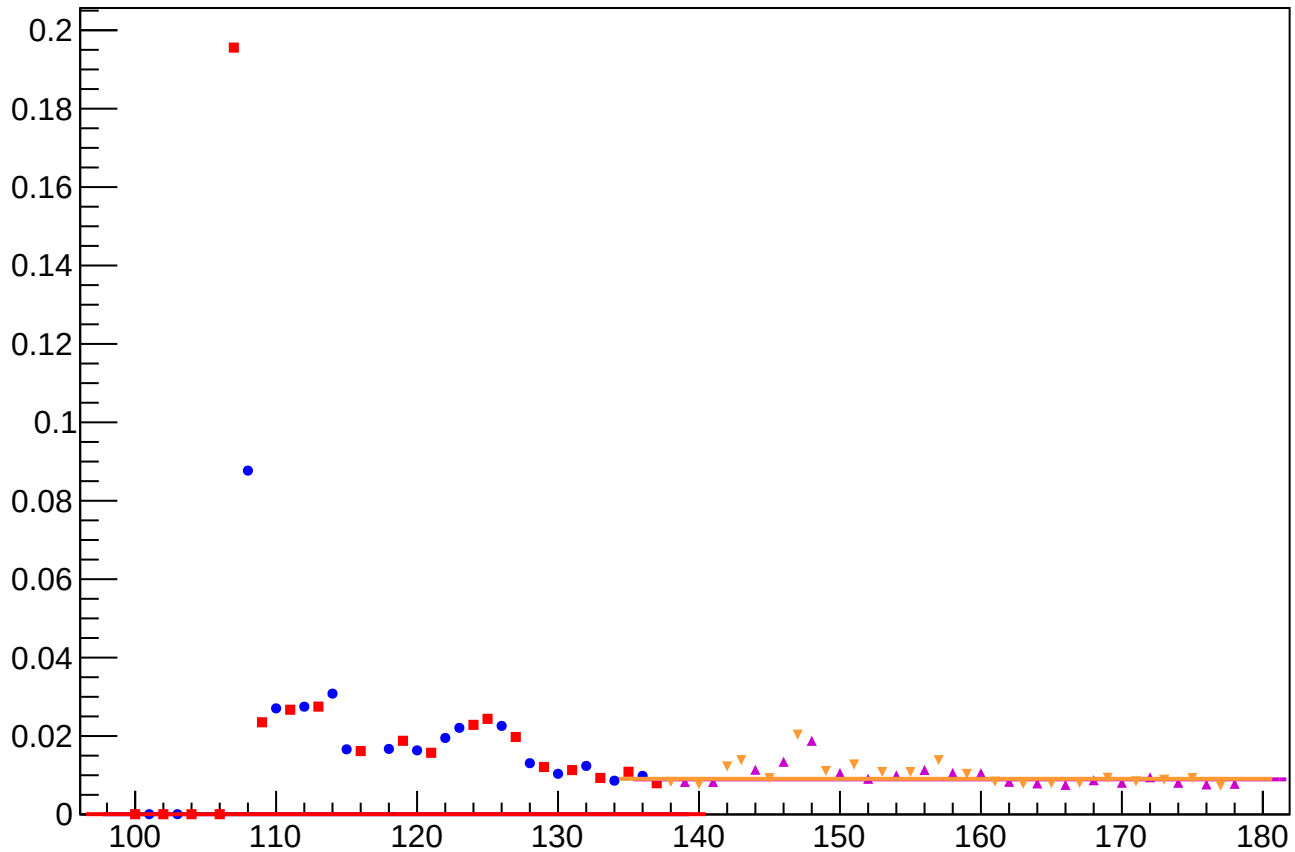
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 3546755512499.0/36

Out: 2.582+/-0.000 χ^2/NDF : 1255331236222755.8

All: 3.038+/-0.000 χ^2/NDF : 13869850184608

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.009+/-0.000 χ^2/NDF : 1172518.5/20

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.009+/-0.000 χ^2/NDF : 898240.2/19

Left: 0.009+/-0.000 χ^2/NDF : 2073855.5/40

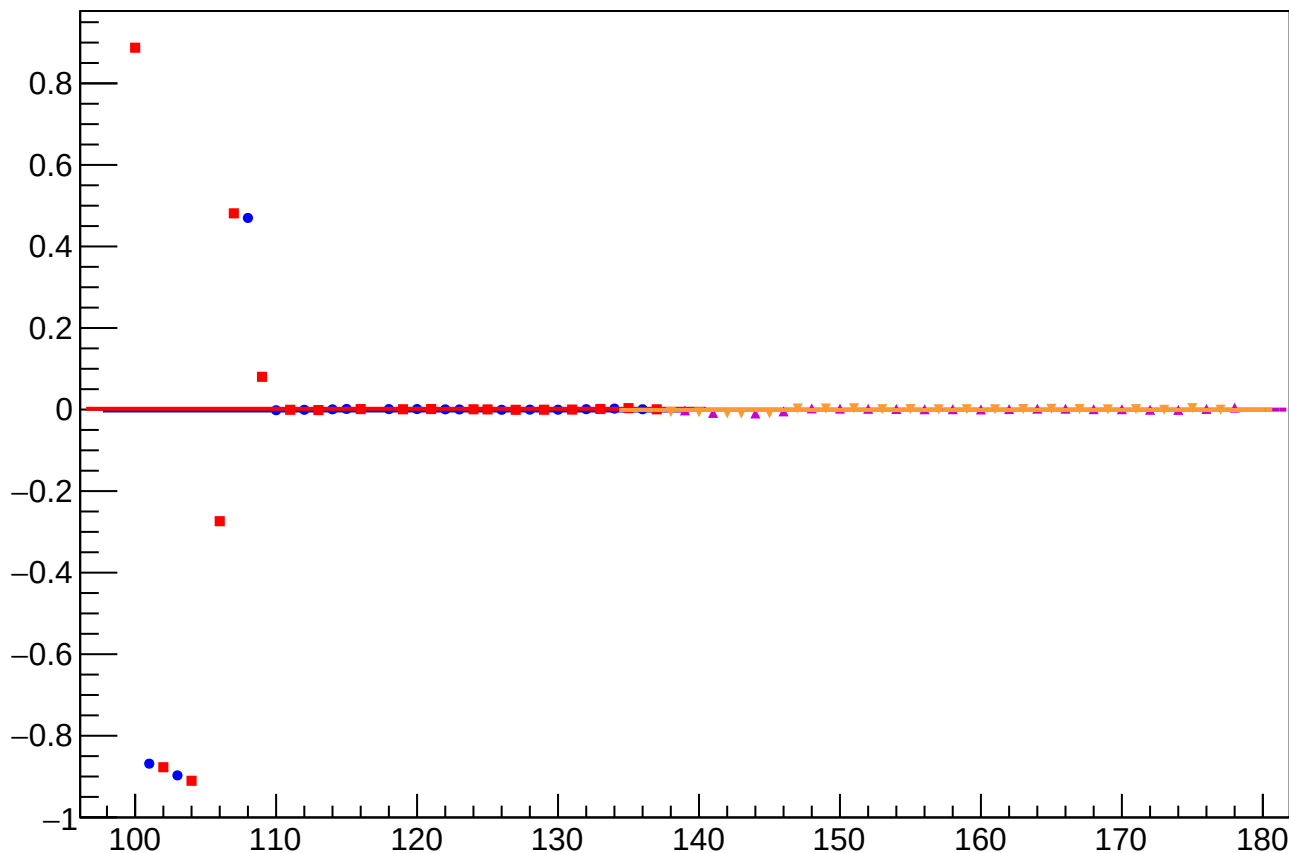
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF : 35796724.9/36

Out: 0.000+/-0.000 χ^2/NDF : 36577245.2/39

All: 0.000+/-0.000 χ^2/NDF : 72374763.9/76

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.001+/-0.000 χ^2/NDF : 101818719.6/20

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 77049942.3/19

Left: -0.001+/-0.000 χ^2/NDF : 181008664.0/40

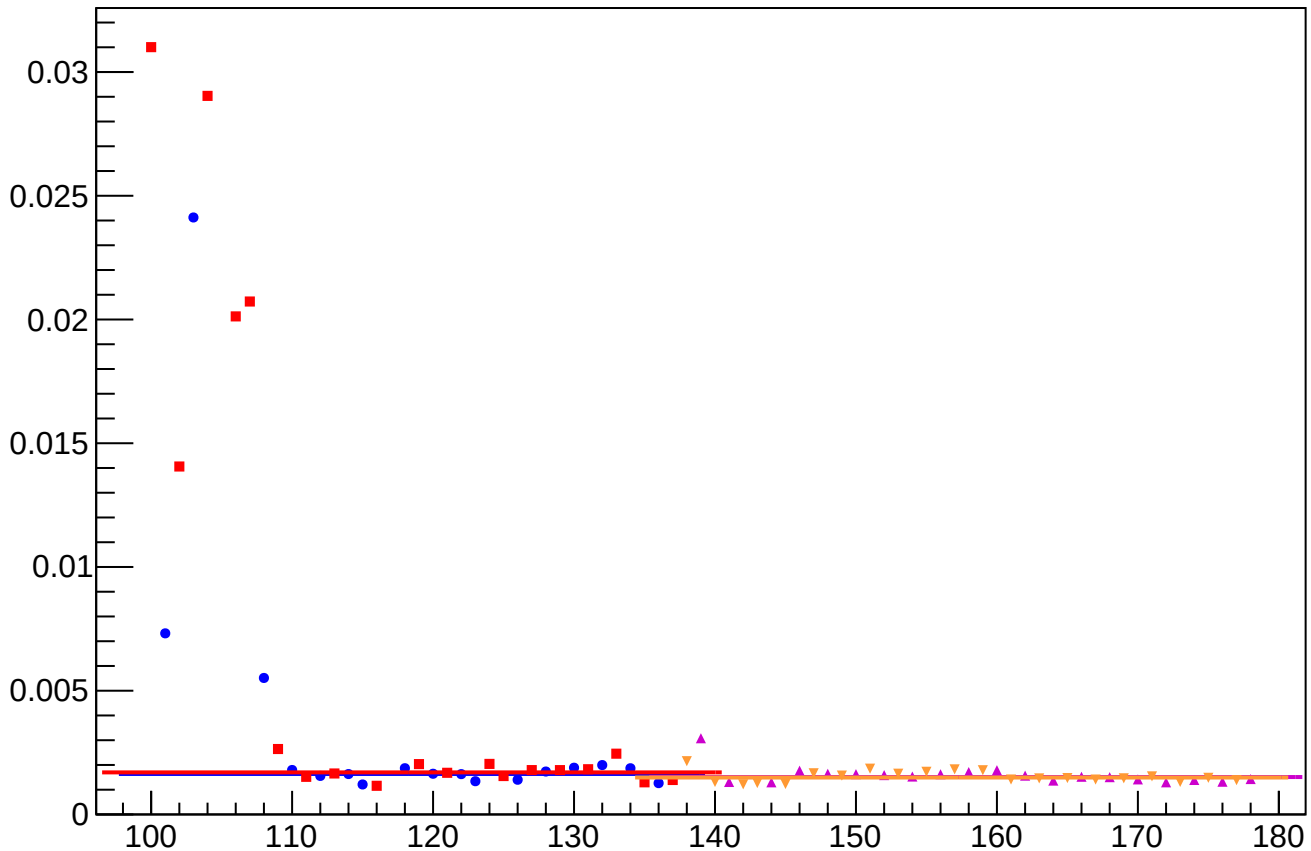
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9878394343.3/36

Out: -0.000+/-0.000 χ^2/NDF : 3153152746.4/39

All: -0.001+/-0.000 χ^2/NDF : 13031762787.6/84

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1919127.9/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:464616.9/20

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3025332.9/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:599421.7/19

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 1065909.7/40

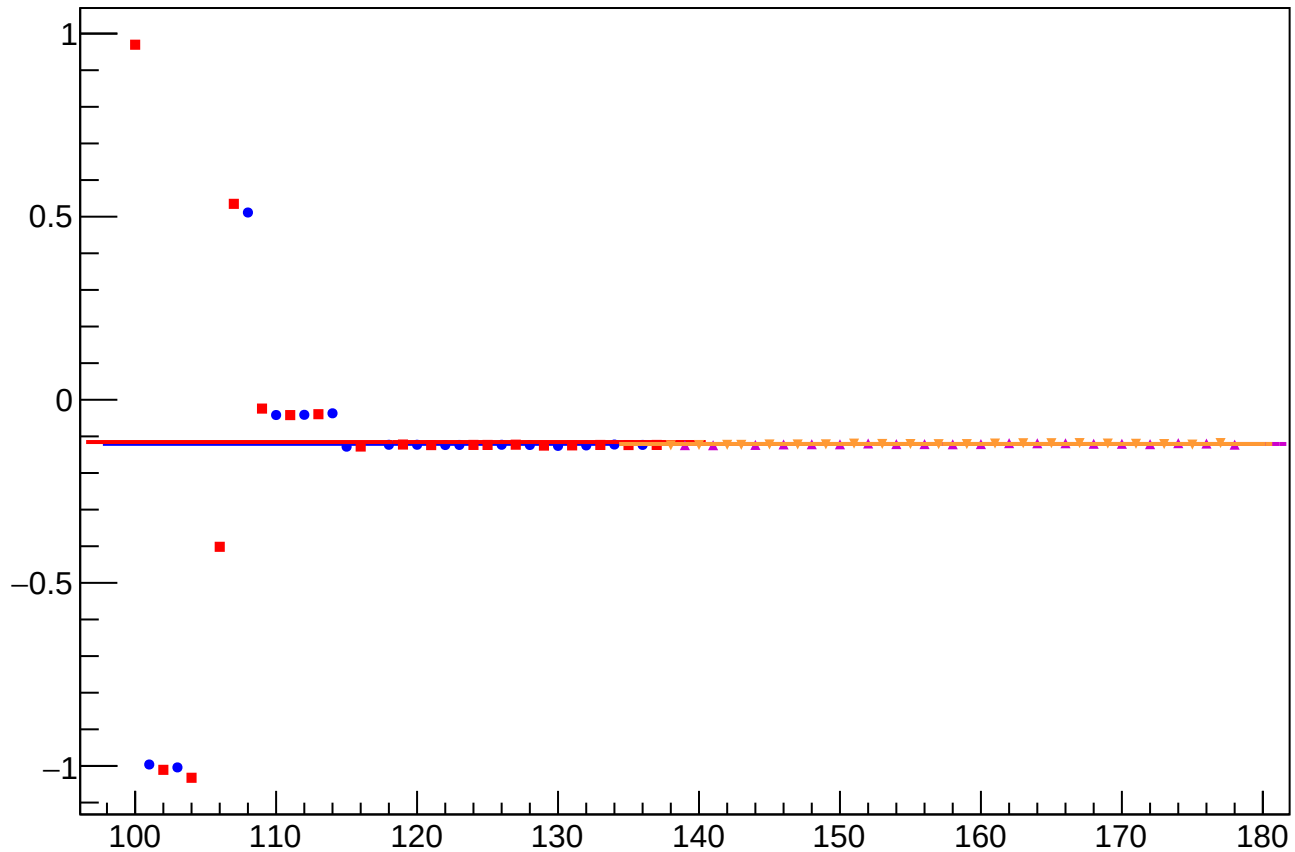
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2558511.7/36

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3593226.4/39

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 6151841.3/76

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932311162.8/16

Left Out: -0.121+/-0.000 χ^2/NDF : 41836721.3/20

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 37125663.3/19

Left: -0.121+/-0.000 χ^2/NDF : 78962923.9/40

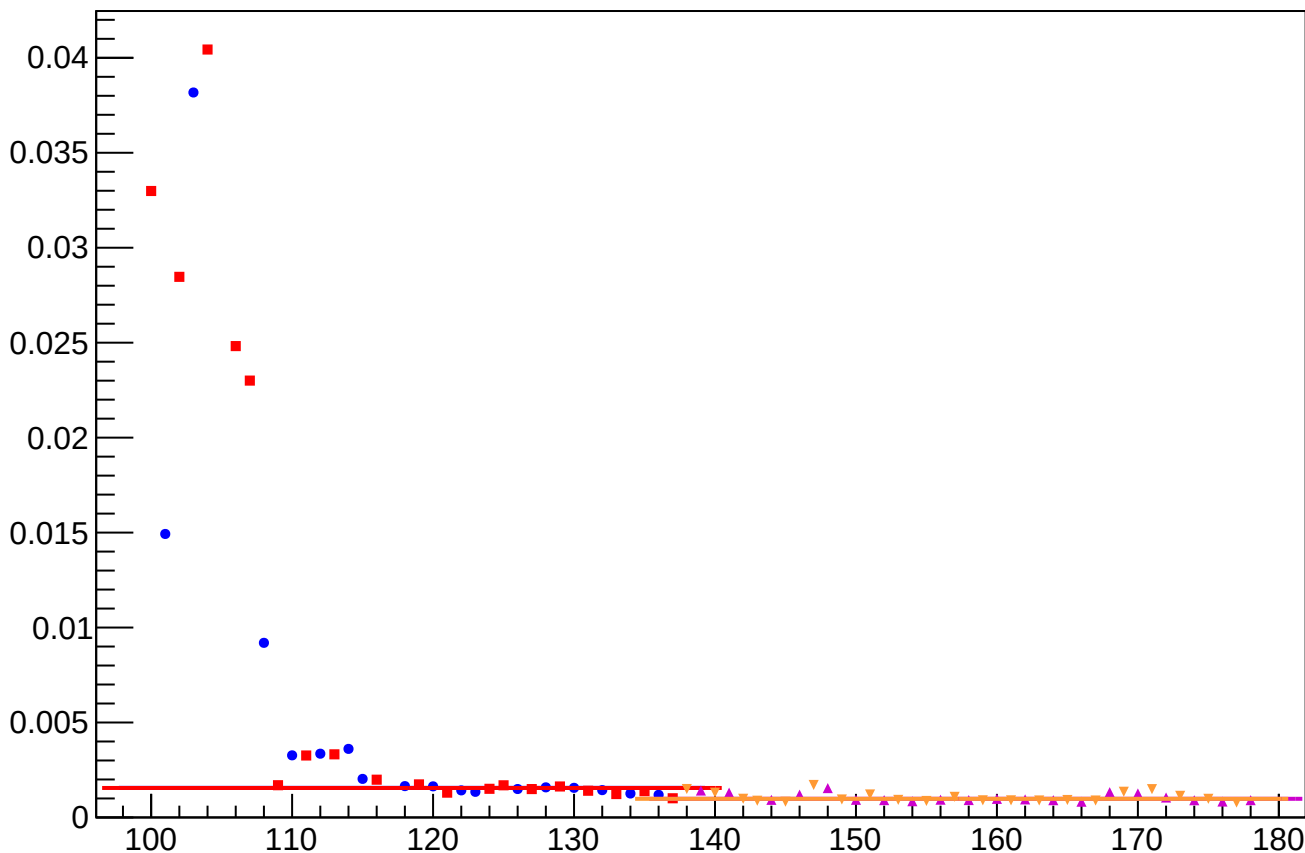
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3969662797.1/36

Out: -0.120+/-0.000 χ^2/NDF : 2545860541.9/39

All: -0.120+/-0.000 χ^2/NDF : 6518136789.2/7

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:1138033.4/20

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3538622.3/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:807726.1/19

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1945771.7/40

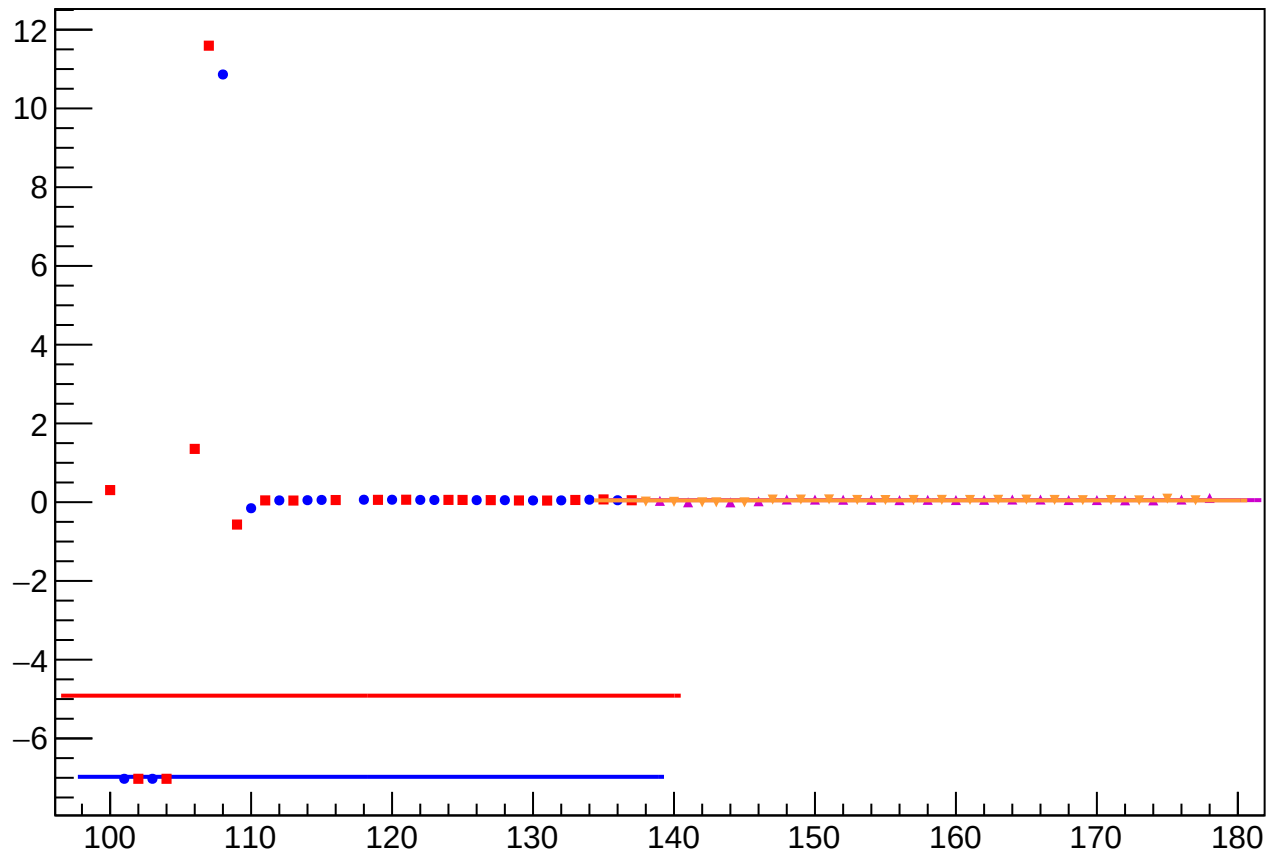
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 6442279.4/35

In: 0.001 $\pm$ 0.000 χ^2 /NDF:4826825.4/36

Out: 0.001 $\pm$ 0.000 χ^2 /NDF:5773924.9/39

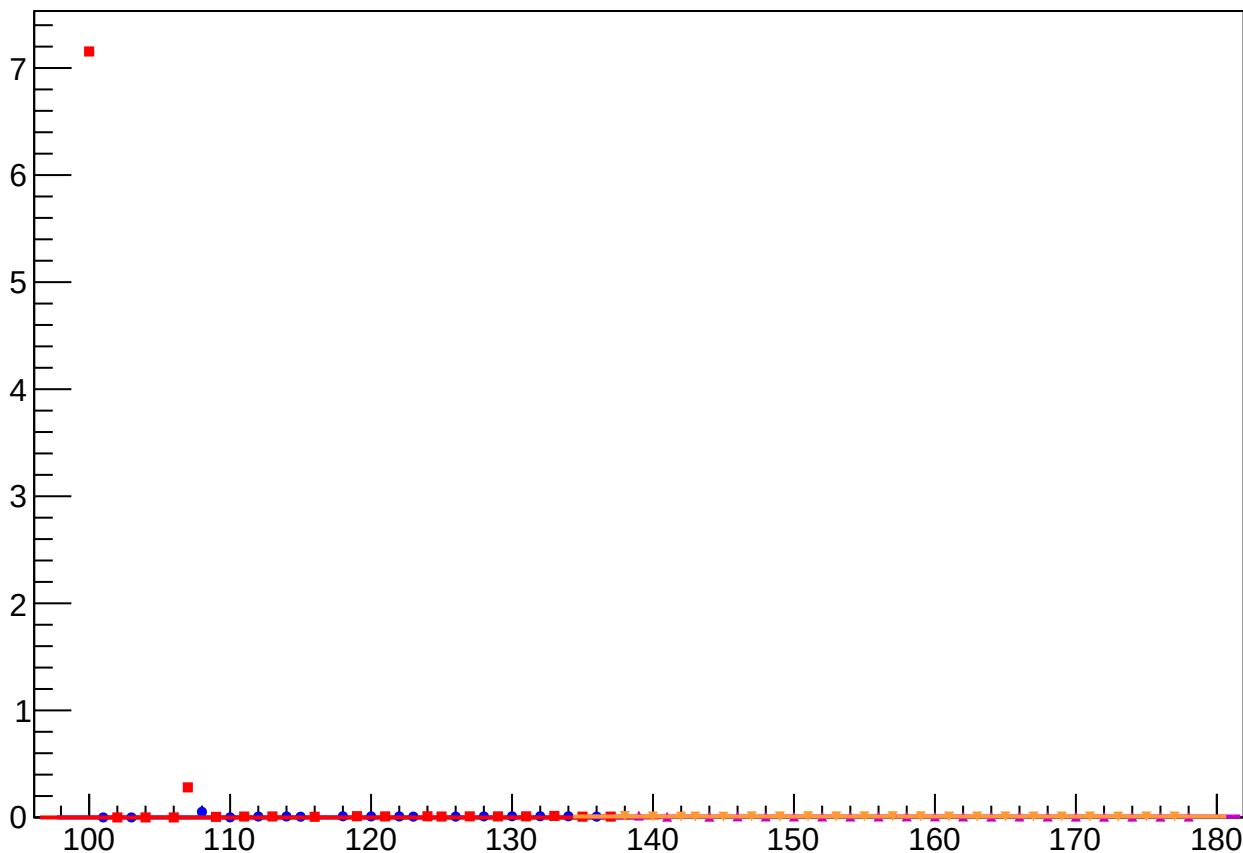
All: 0.001 $\pm$ 0.000 χ^2 /NDF: 10600876.9/76

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16
 Left Out: 0.046+/-0.000 χ^2/NDF : 112454524.2/20
 Right Out: -4.914+/-0.000 χ^2/NDF : 365362215369689.4/18
 Left In: 0.052+/-0.000 χ^2/NDF : 106273193.6/19
 Left: 0.049+/-0.000 χ^2/NDF : 221654560.6/40
 Right: -5.900+/-0.000 χ^2/NDF : 430340247682327.9
 In: -6.932+/-0.000 χ^2/NDF : 16424666305539.9/36
 Out: -4.885+/-0.000 χ^2/NDF : 369352686419915.5/
 All: -5.864+/-0.000 χ^2/NDF : 4415535077906

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 462220.1/20

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF : 591230.0/19

Left: 0.009+/-0.000 χ^2/NDF : 1055855.8/40

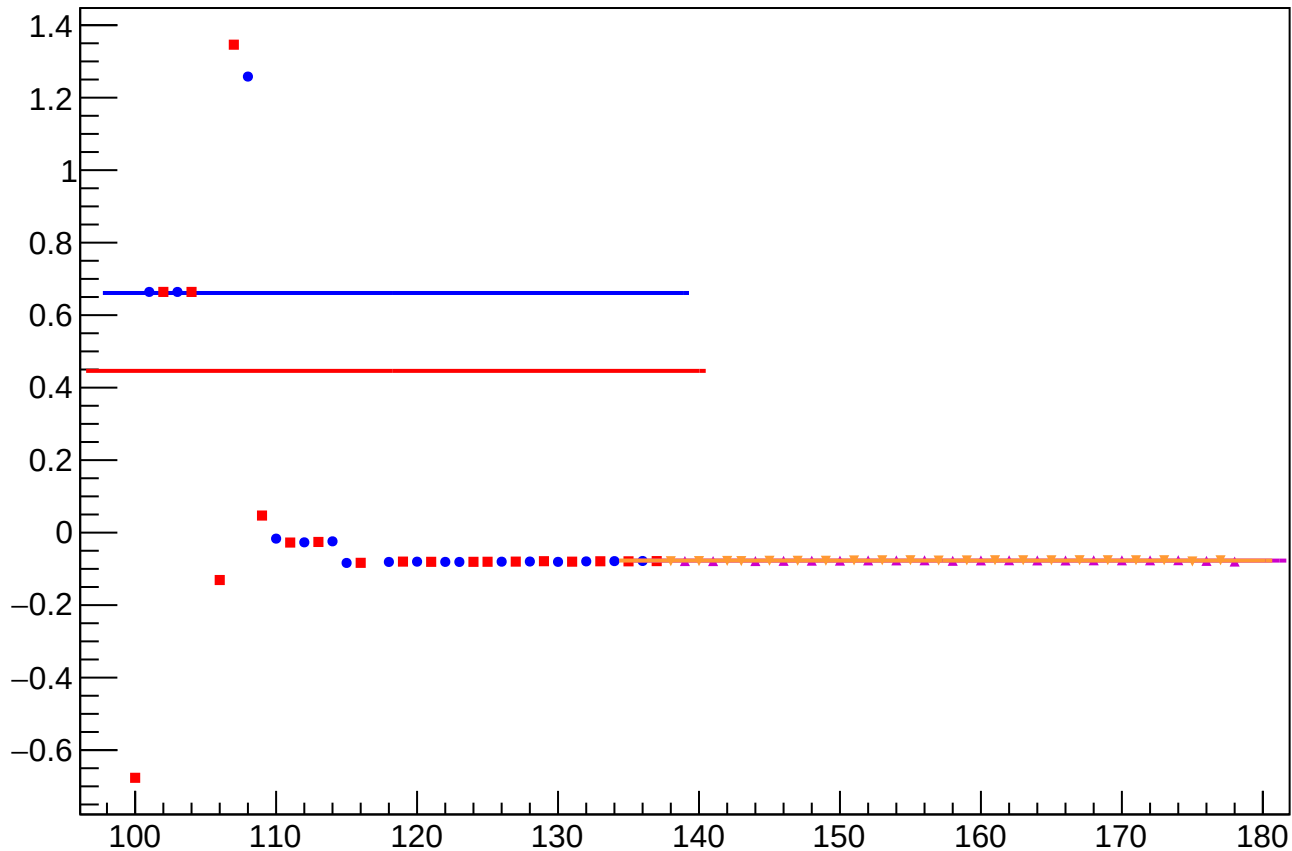
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 32702320.0/36

Out: 0.000+/-0.000 χ^2/NDF : 33499893.8/39

All: 0.000+/-0.000 χ^2/NDF : 66203261.4/76

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 : 98924500.4/40

Left Out: -0.077+/-0.000

χ^2/NDF : 52409007.1/20

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9/

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.648+/-0.000

χ^2/NDF : 30652475519145.9/36

Out: 0.438+/-0.000

χ^2/NDF : 418395200026608.7/3

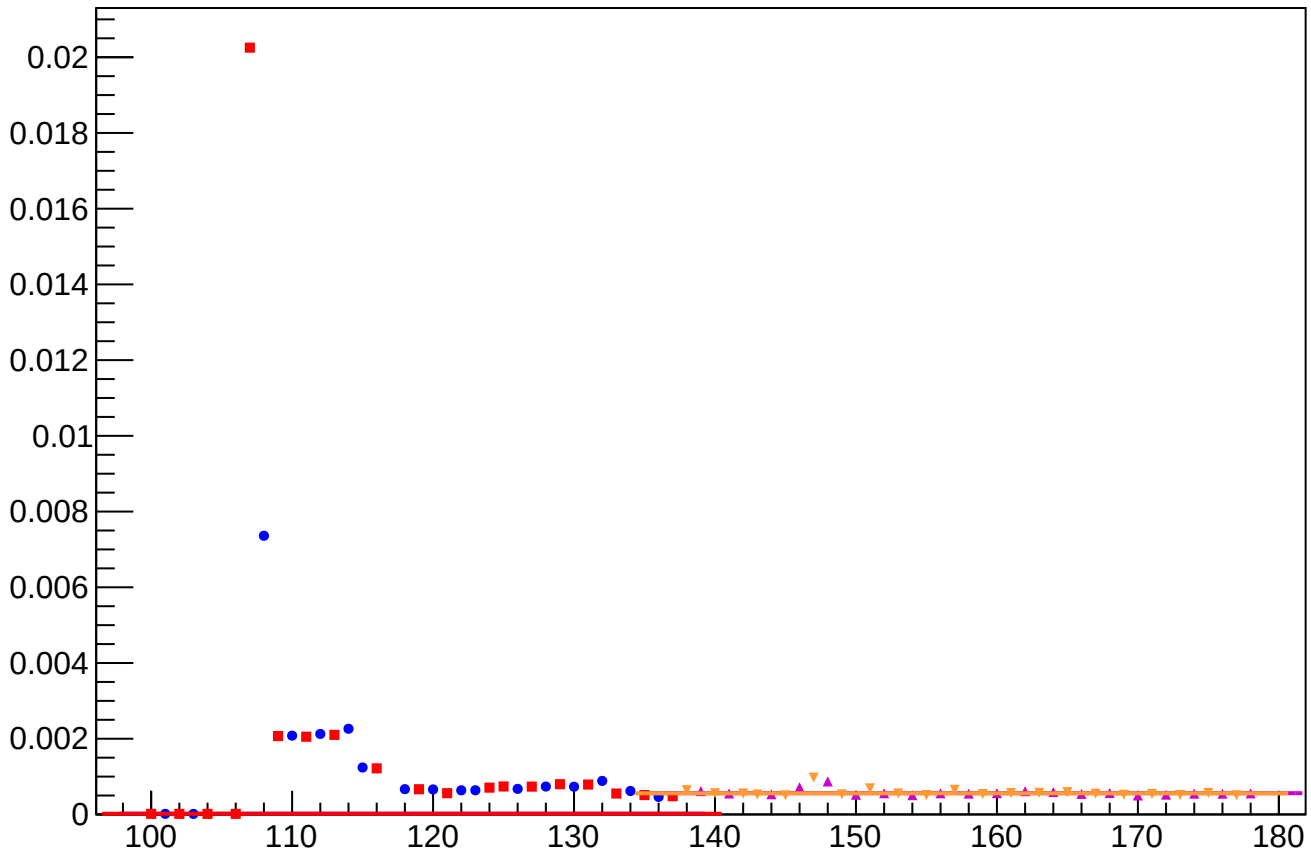
Left In: -0.077+/-0.000

χ^2/NDF : 46271276.8/19

All: 0.538+/-0.000

χ^2/NDF : 51051898651197

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9997012.7/16

Left Out: 0.001+/-0.000 χ^2/NDF : 455210.9/20

Right Out: 0.000+/-0.000 χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000 χ^2/NDF : 353215.6/19

Left: 0.001+/-0.000 χ^2/NDF : 809063.7/40

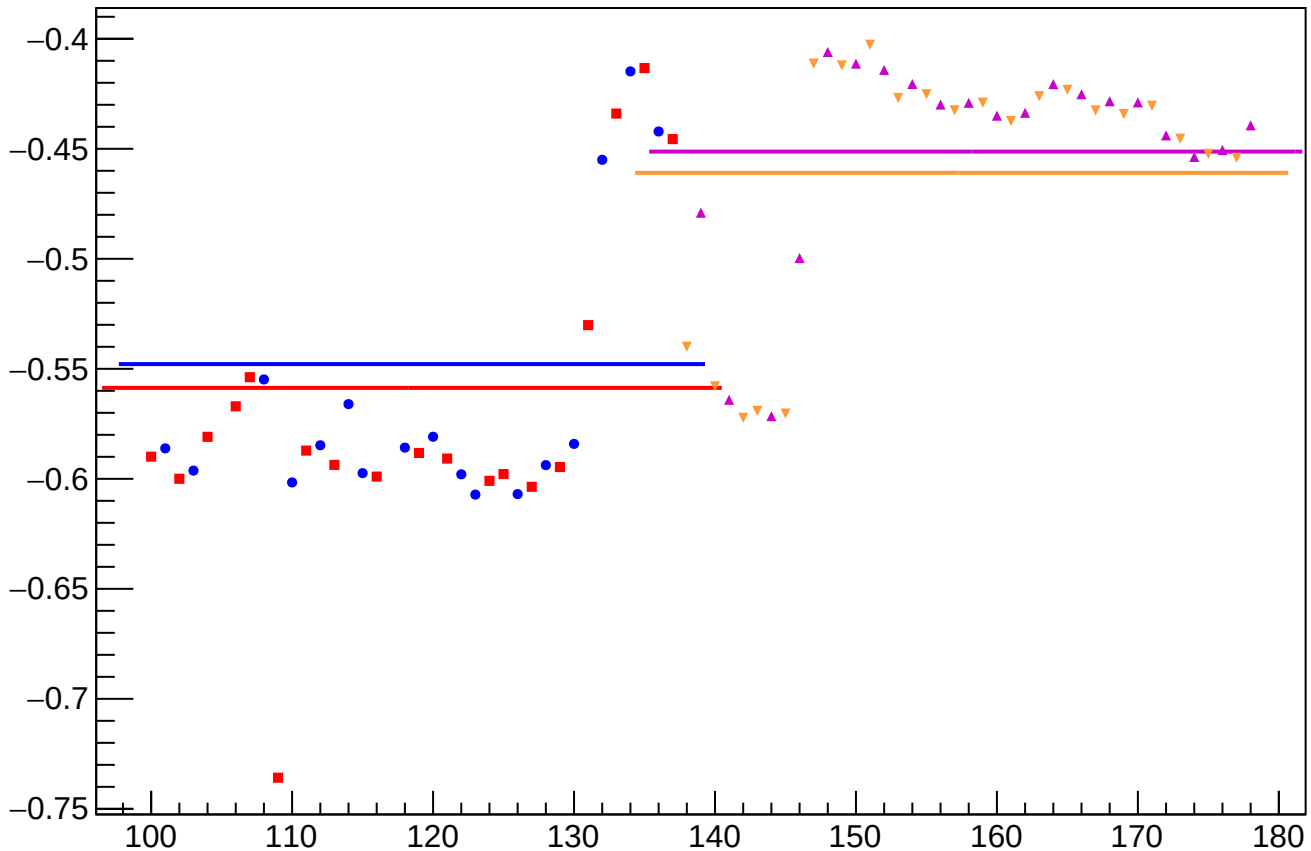
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 37424165.0/36

Out: 0.000+/-0.000 χ^2/NDF : 37567720.2/39

All: 0.000+/-0.000 χ^2/NDF : 74993142.6/76

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548 $\pm$ 0.000 χ^2 /NDF: 48579920.8/16

Left Out: -0.461 $\pm$ 0.000 χ^2 /NDF: 106563727.2/20

Right Out: -0.559 $\pm$ 0.000 χ^2 /NDF: 65682293.5/18

Left In: -0.451 $\pm$ 0.000 χ^2 /NDF: 75523832.6/19

Left: -0.456 $\pm$ 0.000 χ^2 /NDF: 183601592.6/40

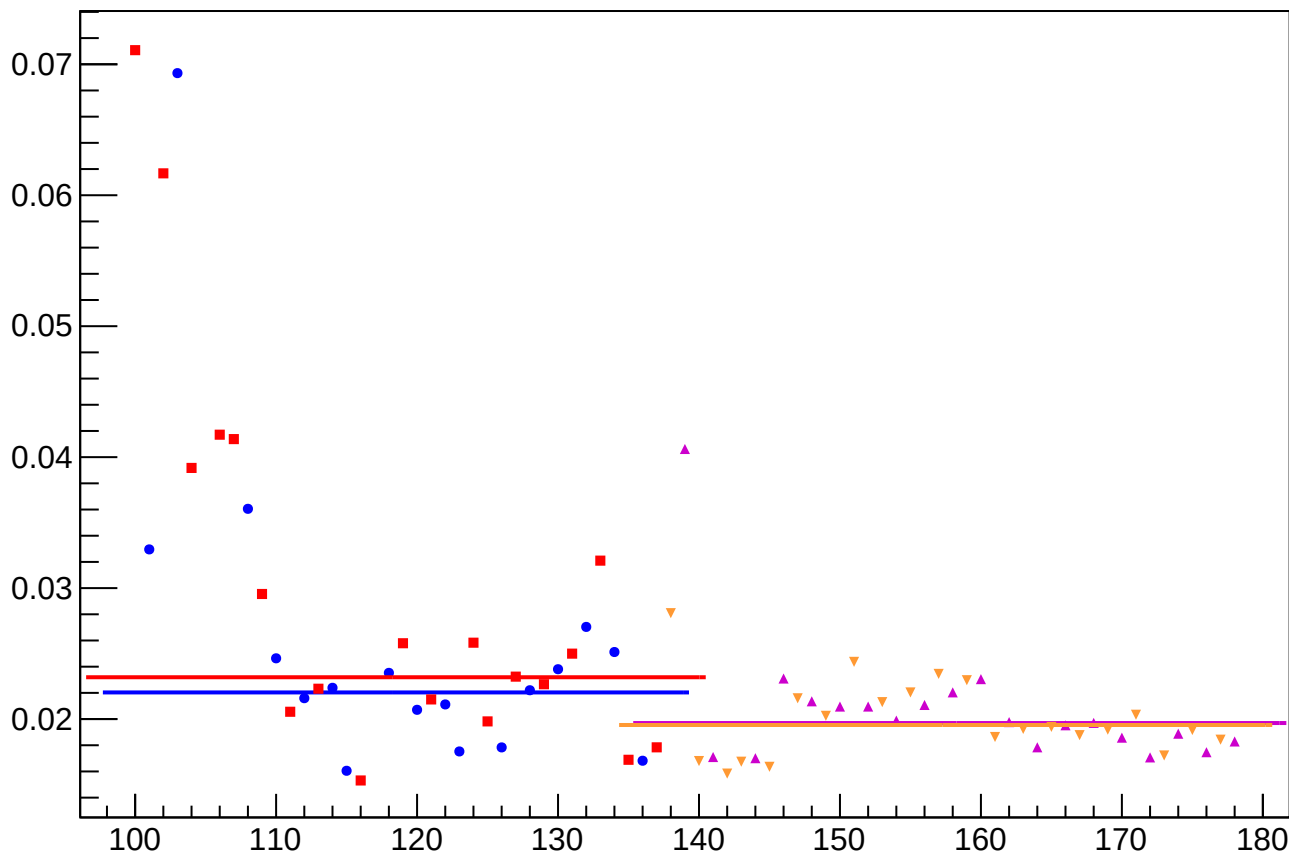
Right: -0.553 $\pm$ 0.000 χ^2 /NDF: 114857155.8/35

In: -0.475 $\pm$ 0.000 χ^2 /NDF: 197908467.0/36

Out: -0.483 $\pm$ 0.000 χ^2 /NDF: 245116151.7/39

All: -0.479 $\pm$ 0.000 χ^2 /NDF: 444479457.1/76

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020+/-0.000 χ^2/NDF : 430816.9/20

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 582441.3/19

Left: 0.020+/-0.000 χ^2/NDF : 1013980.0/40

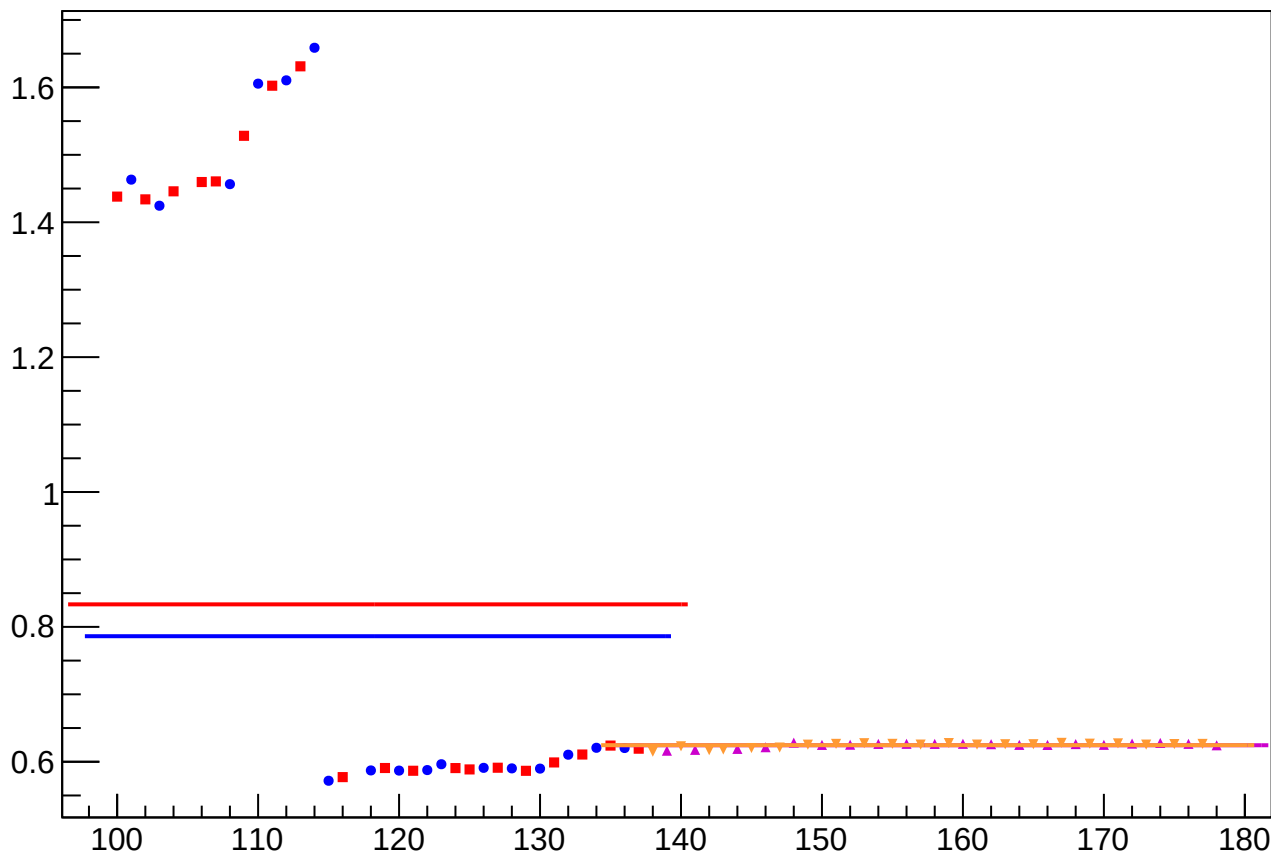
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.020+/-0.000 χ^2/NDF : 1627804.7/36

Out: 0.020+/-0.000 χ^2/NDF : 1790615.3/39

All: 0.020+/-0.000 χ^2/NDF : 3418961.6/76

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786 $\pm$ 0.000 χ^2 /NDF: 3590113316.1/16

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1285030.2/20

Right Out: 0.833 $\pm$ 0.000 χ^2 /NDF: 4156812252.4/18

Left In: 0.624 $\pm$ 0.000 χ^2 /NDF:1058310.7/19

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2344028.7/40

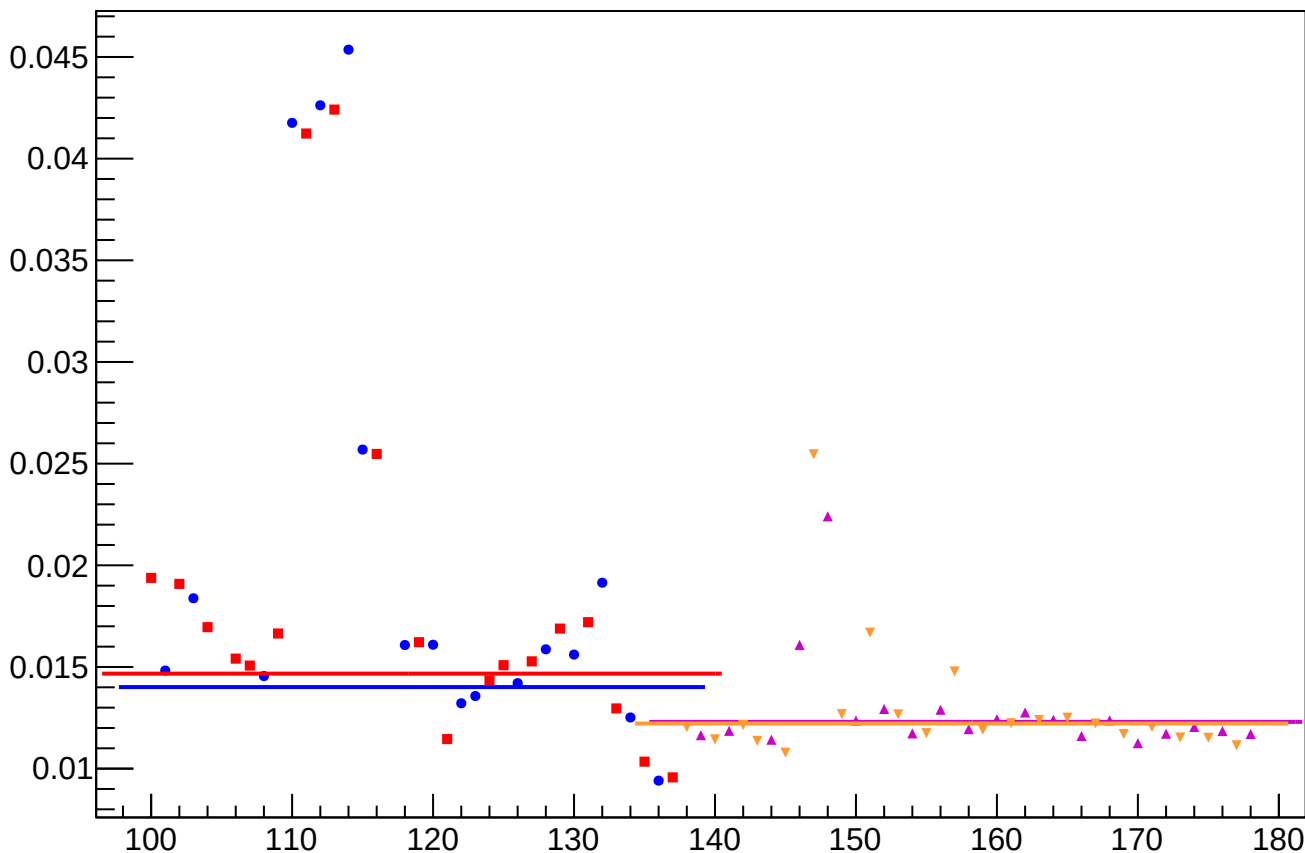
Right: 0.809 $\pm$ 0.000 χ^2 /NDF: 7778629767.1/35

In: 0.661 $\pm$ 0.000 χ^2 /NDF:4175028466.4/36

Out: 0.670 $\pm$ 0.000 χ^2 /NDF:5111881297.7/39

All: 0.666 $\pm$ 0.000 χ^2 /NDF: 9291553785.0/76

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 627588.7/20

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.012+/-0.000 χ^2/NDF : 448305.2/19

Left: 0.012+/-0.000 χ^2/NDF : 1076559.5/40

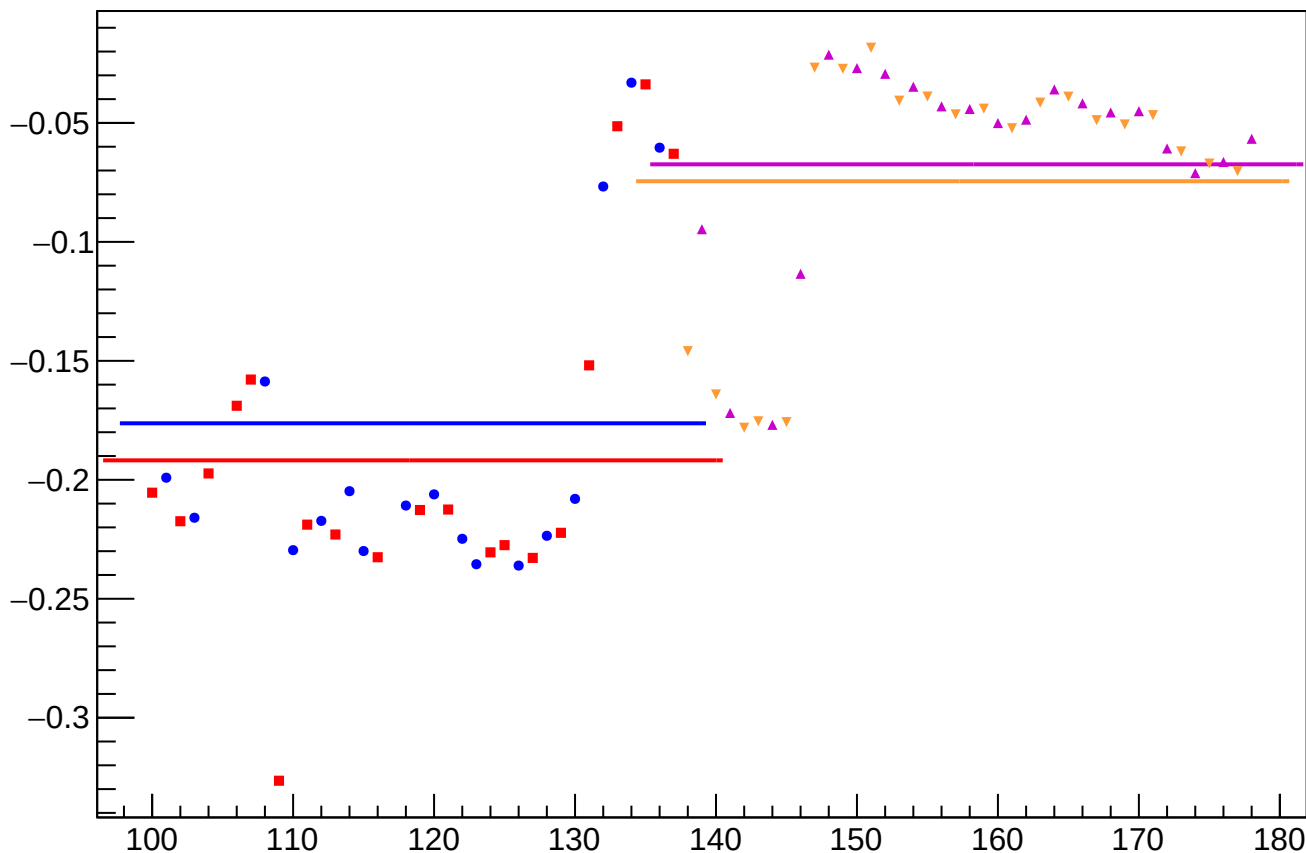
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF : 1983892.4/36

Out: 0.013+/-0.000 χ^2/NDF : 2154594.3/39

All: 0.013+/-0.000 χ^2/NDF : 4138950.6/76

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.075+/-0.000 χ^2/NDF : 101348701.5/20

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.067+/-0.000 χ^2/NDF : 75790513.0/19

Left: -0.071+/-0.000 χ^2/NDF : 178010148.4/40

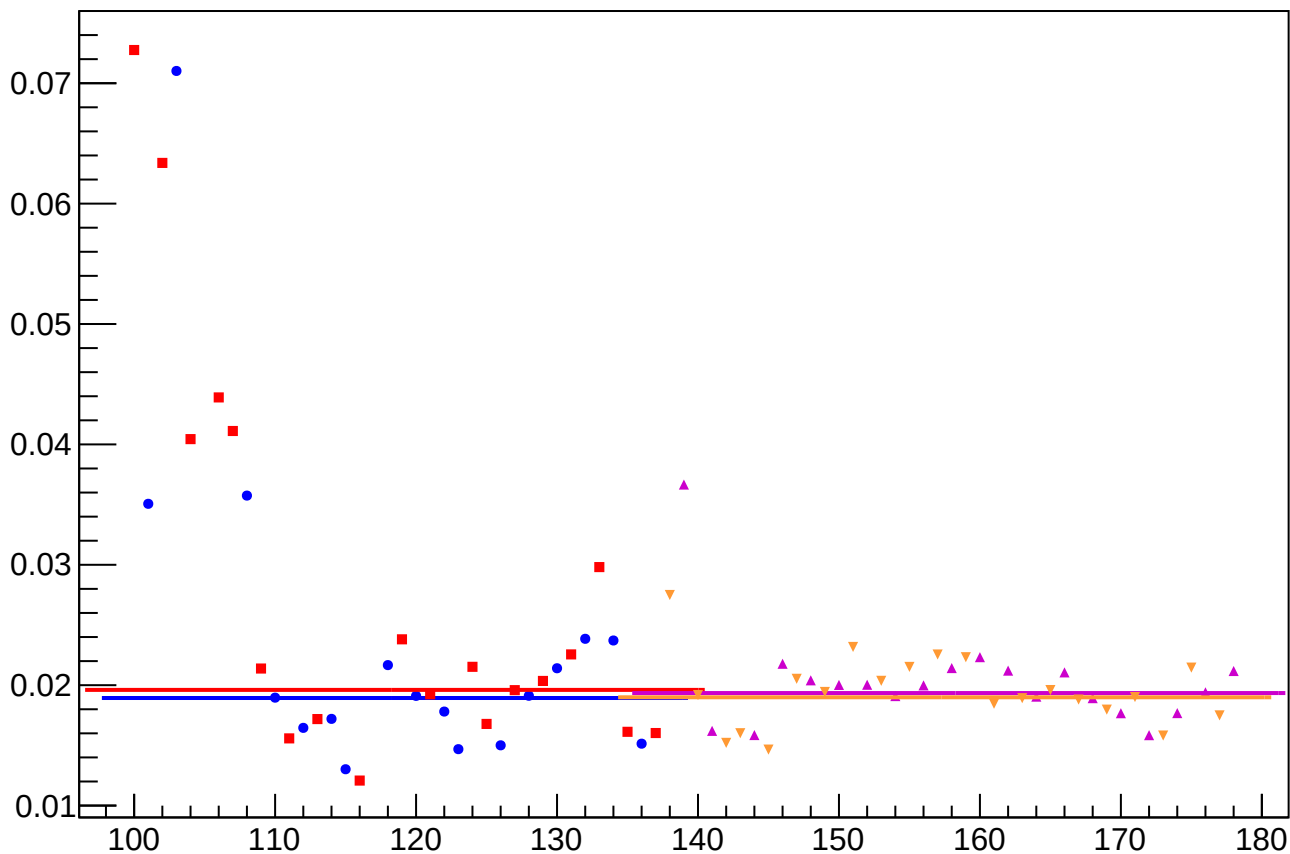
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.099+/-0.000 χ^2/NDF : 262807082.4/36

Out: -0.107+/-0.000 χ^2/NDF : 319798106.9/39

All: -0.103+/-0.000 χ^2/NDF : 583954972.3/76

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1205858.0/16

Left Out: 0.019+/-0.000 χ^2/NDF : 505507.4/20

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 571776.2/19

Left: 0.019+/-0.000 χ^2/NDF : 1081584.3/40

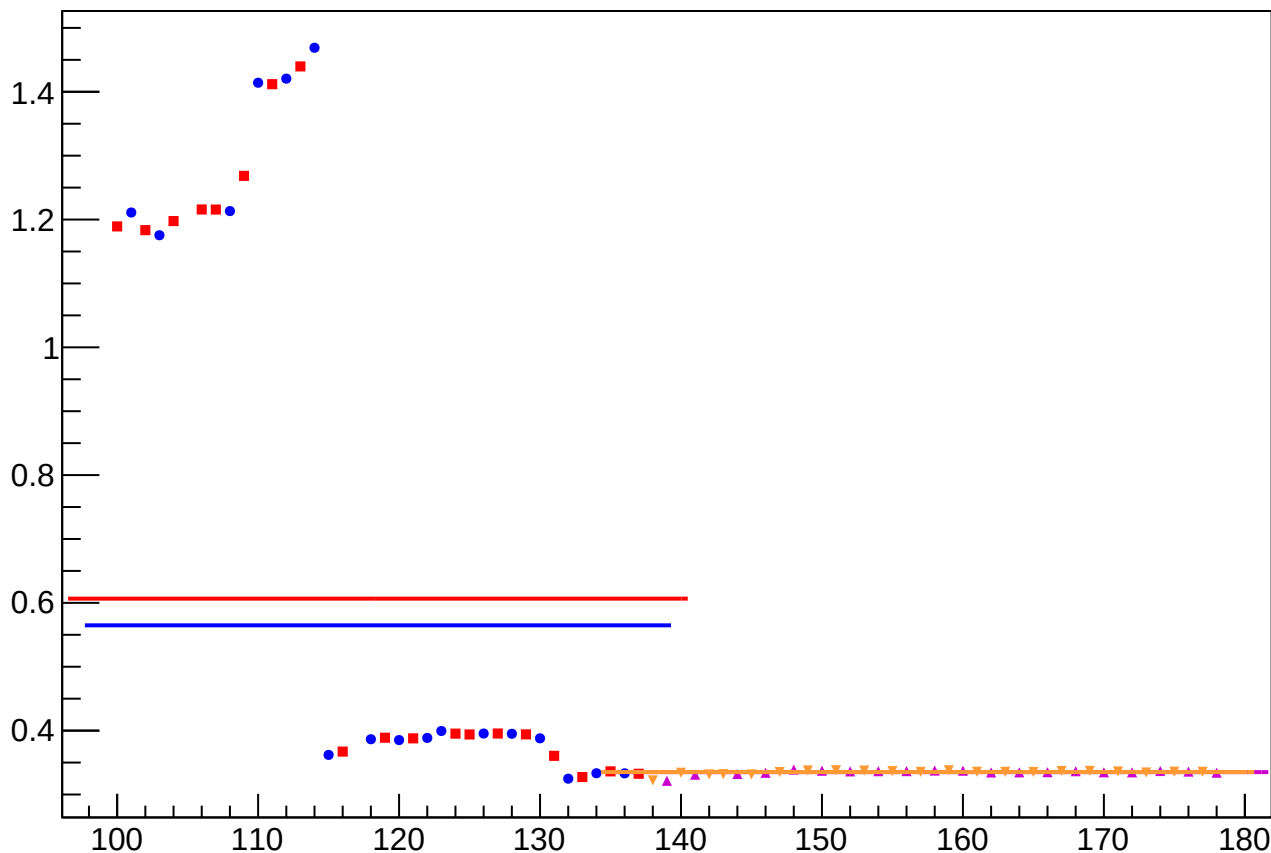
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1780979.8/36

Out: 0.019+/-0.000 χ^2/NDF : 1970576.9/39

All: 0.019+/-0.000 χ^2/NDF : 3751744.3/76

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565+/-0.000 χ^2/NDF : 5030969499.3/16

Left Out: 0.335+/-0.000 χ^2/NDF : 1137145.0/20

Right Out: 0.607+/-0.000 χ^2/NDF : 5513752213.8/18

Left In: 0.335+/-0.000 χ^2/NDF : 1198543.2/19

Left: 0.335+/-0.000 χ^2/NDF : 2336658.1/40

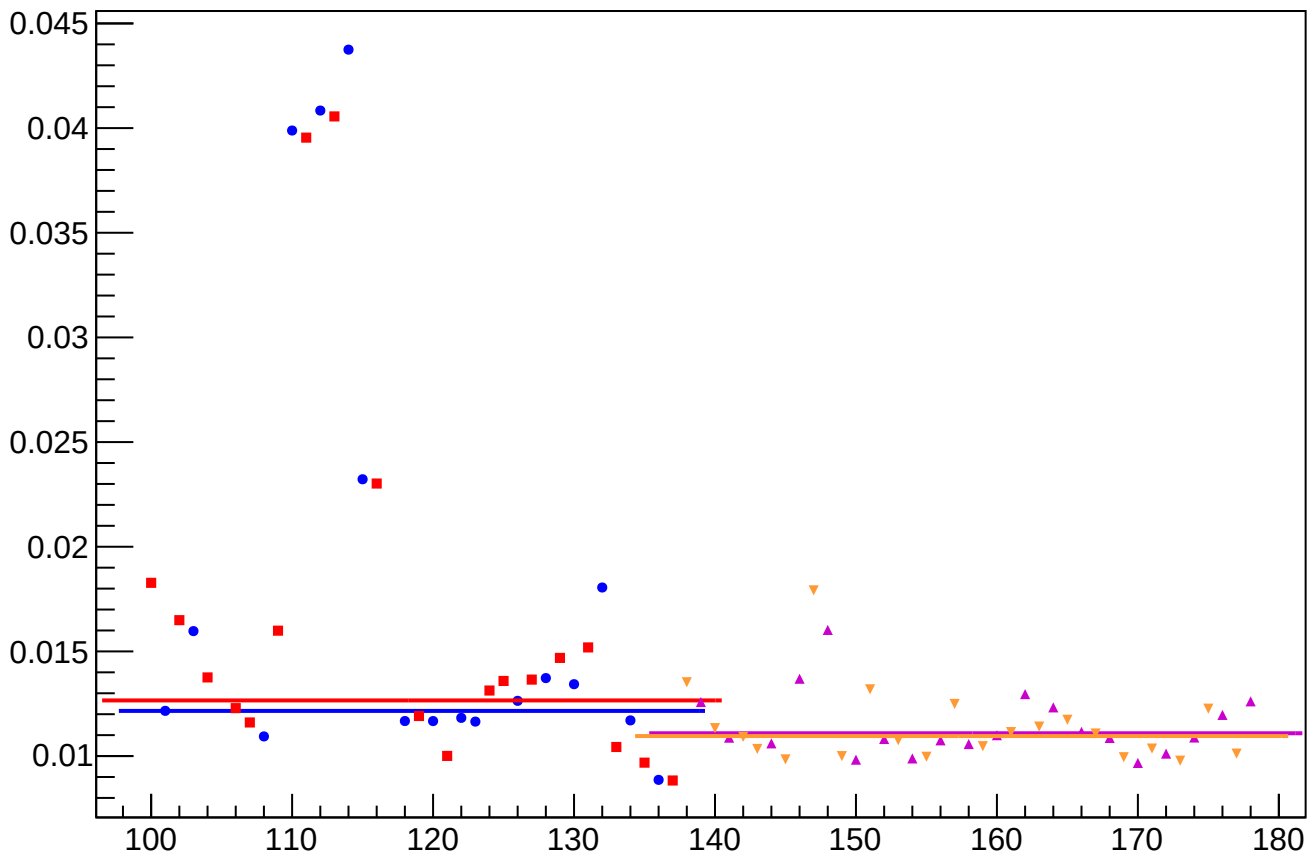
Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

In: 0.391+/-0.000 χ^2/NDF : 6564392781.3/36

Out: 0.397+/-0.000 χ^2/NDF : 7608907252.2/39

All: 0.394+/-0.000 χ^2/NDF : 14176163272.3/77

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1309888.8/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:478691.4/20

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1270689.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:400091.6/19

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 880978.7/40

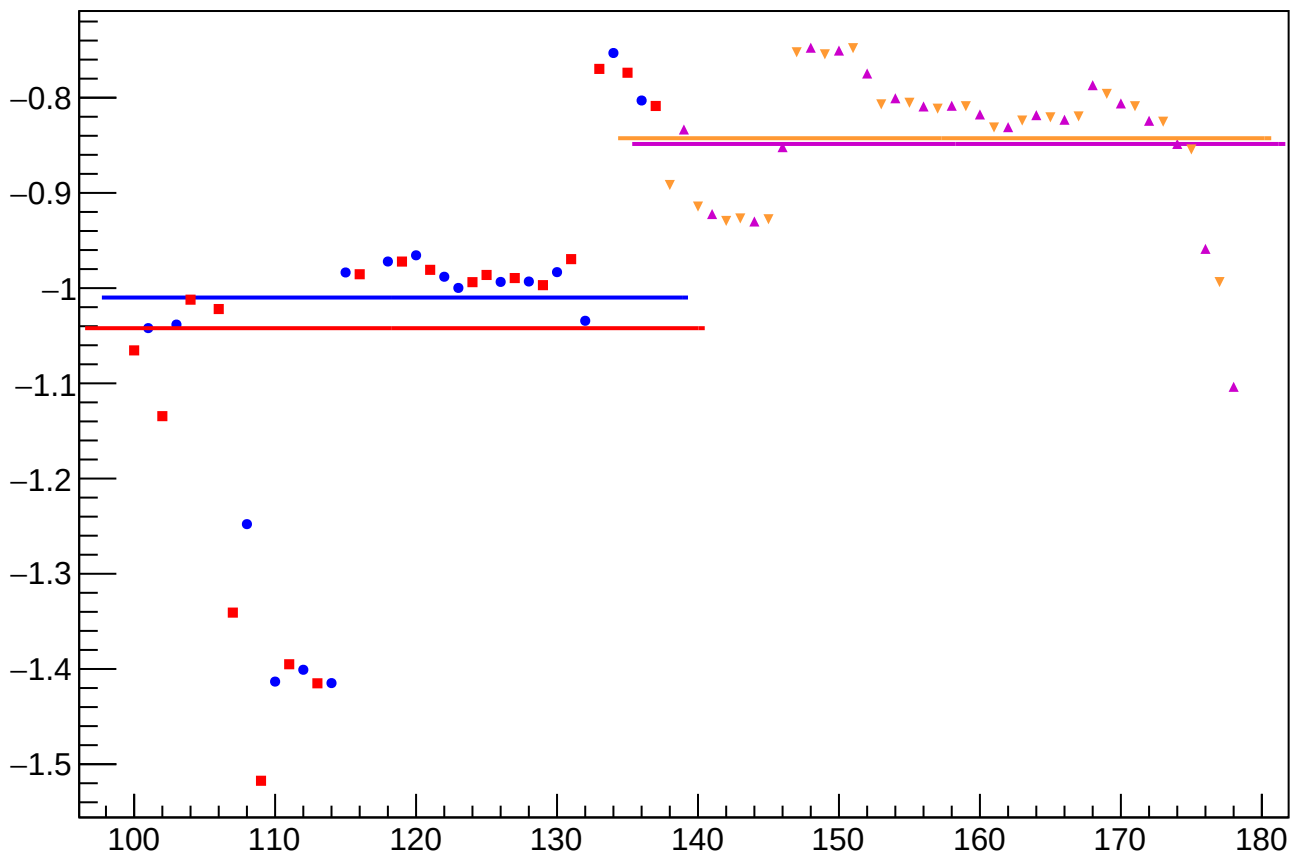
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1776162.5/36

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1914138.4/39

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3690307.8/76

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010 ± 0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.843 ± 0.000 χ^2/NDF : 143921308.0/20

Right Out: -1.042 ± 0.000 χ^2/NDF : 530106141.8/18

Left In: -0.849 ± 0.000 χ^2/NDF : 246174525.7/19

Left: -0.846 ± 0.000 χ^2/NDF : 390714676.6/40

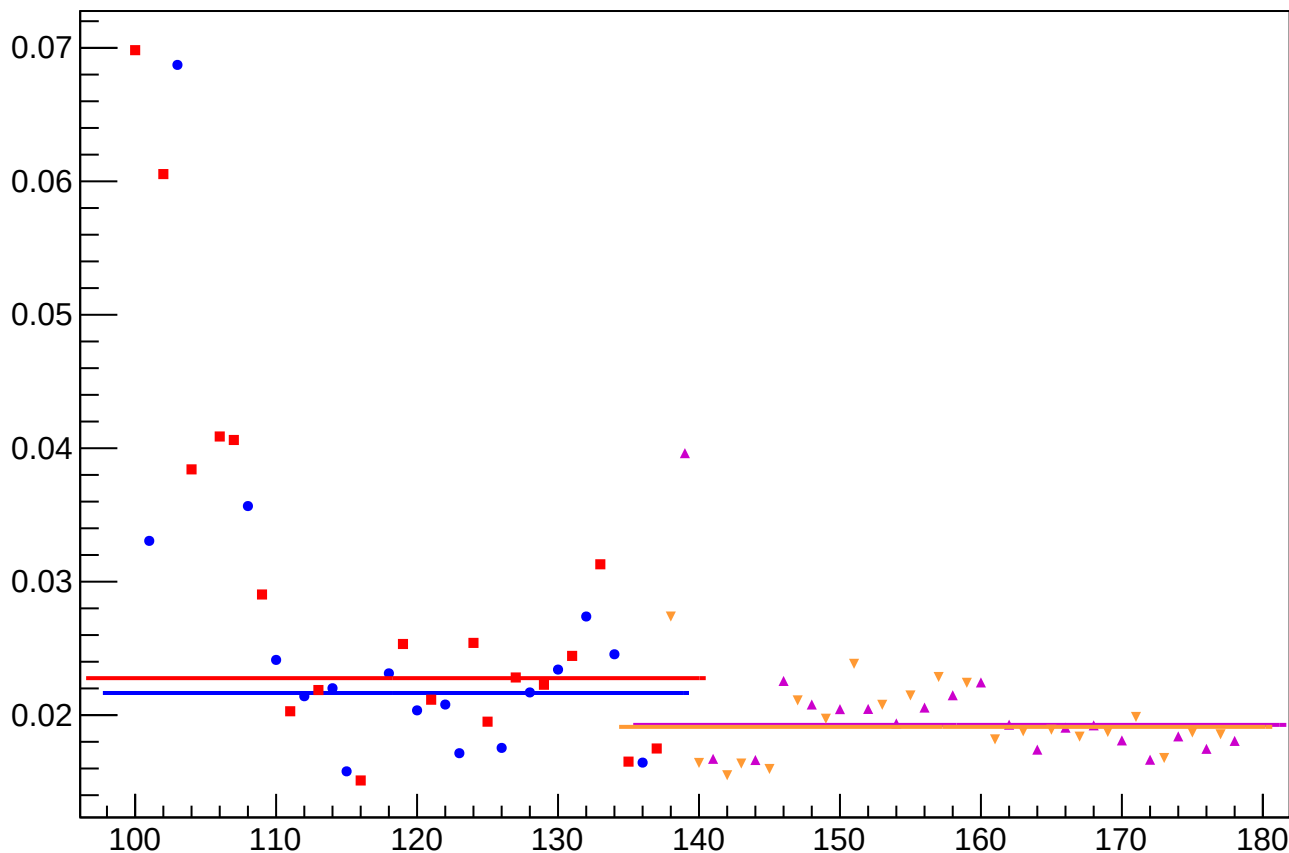
Right: -1.026 ± 0.000 χ^2/NDF : 923225272.3/35

In: -0.888 ± 0.000 χ^2/NDF : 847038069.4/36

Out: -0.888 ± 0.000 χ^2/NDF : 989112391.6/39

All: -0.888 ± 0.000 χ^2/NDF : 1836150461.1/77

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 425391.8/20

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 569988.6/19

Left: 0.019+/-0.000 χ^2/NDF : 996127.1/40

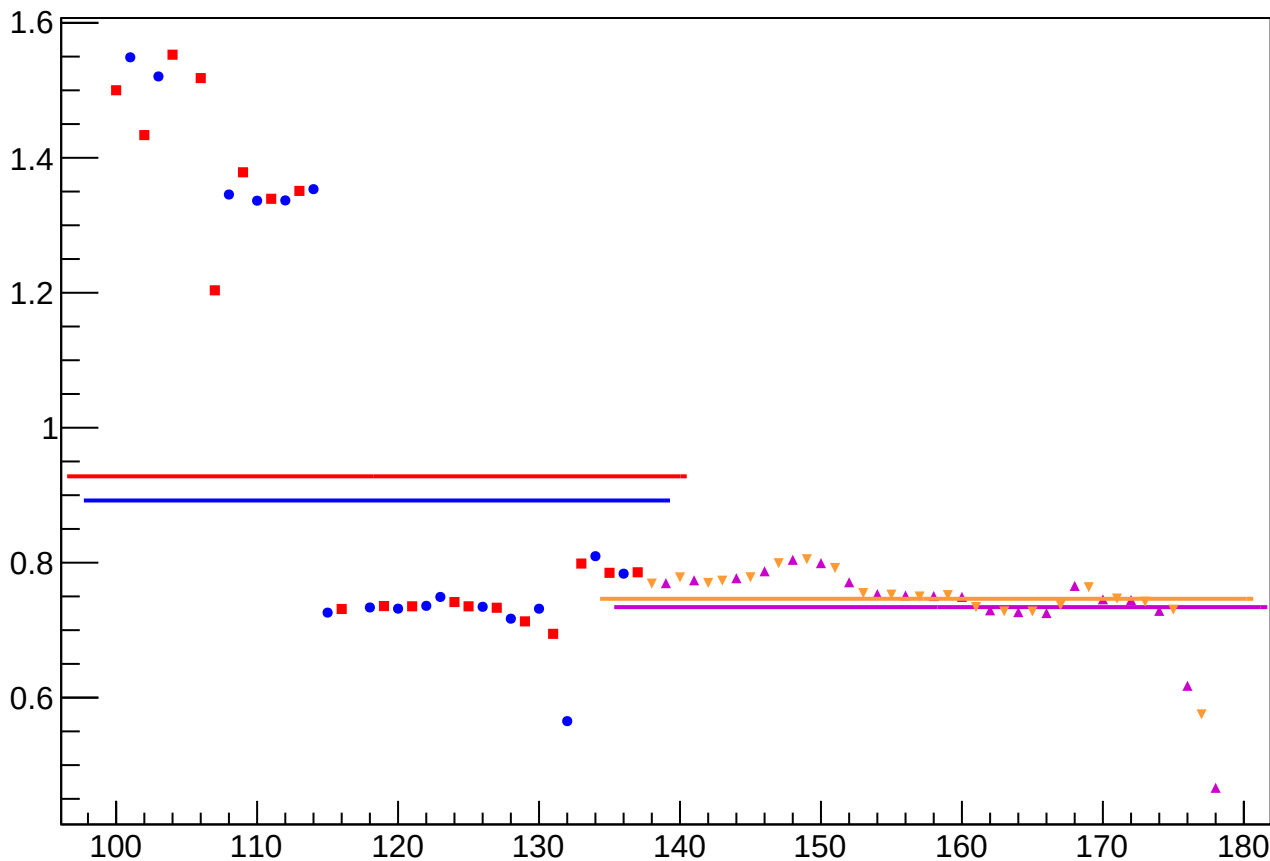
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1647168.0/36

Out: 0.020+/-0.000 χ^2/NDF : 1789037.1/39

All: 0.020+/-0.000 χ^2/NDF : 3436650.6/76

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.746 $\pm$ 0.000 χ^2/NDF :220783973.2/20

Right Out: 0.928 $\pm$ 0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.734 $\pm$ 0.000 χ^2/NDF :539283157.7/19

Left: 0.740 $\pm$ 0.000 χ^2/NDF : 767579678.6/40

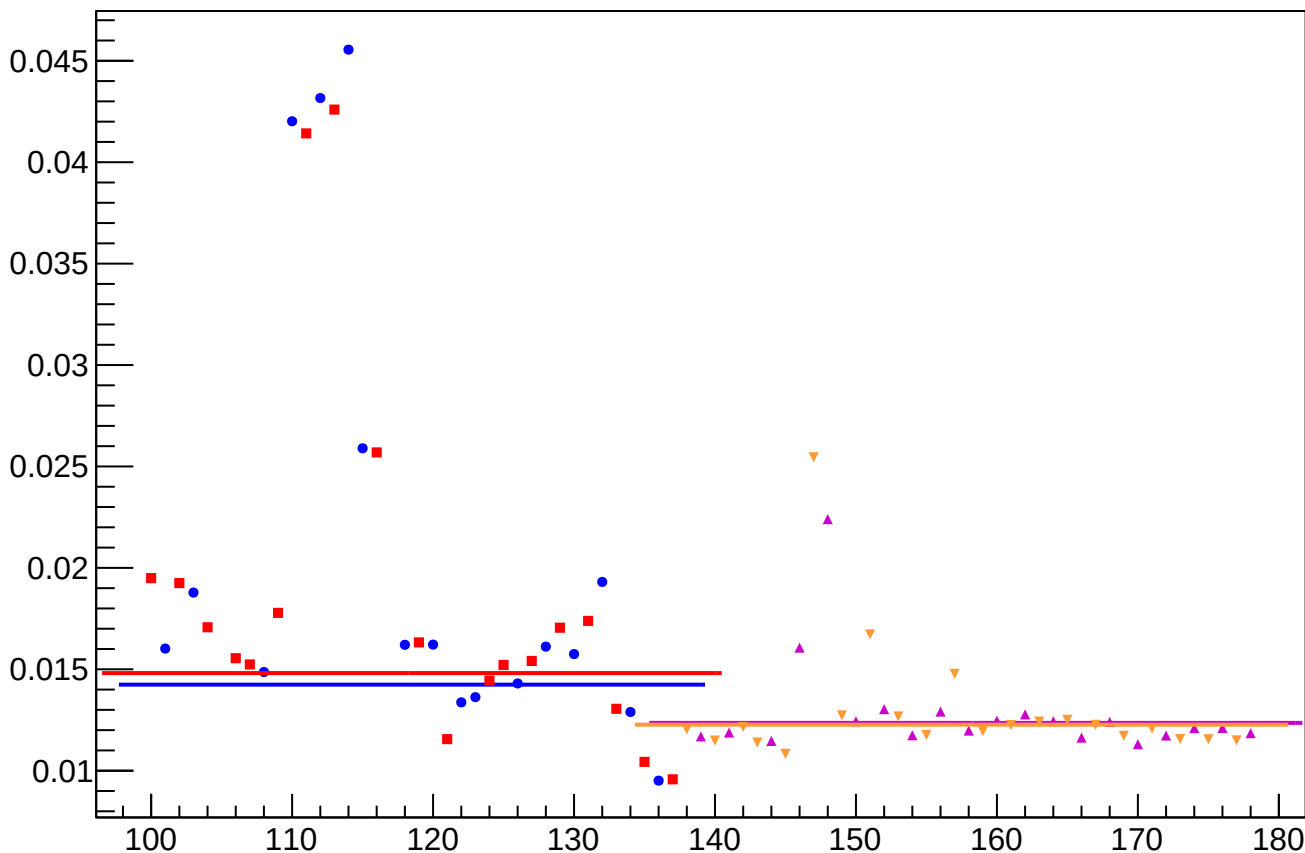
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.769 $\pm$ 0.000 χ^2/NDF :3493088016.8/36

Out: 0.785 $\pm$ 0.000 χ^2/NDF :3364326749.9/39

All: 0.777 $\pm$ 0.000 χ^2/NDF : 6873542940.3/76

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.012 $\pm$ 0.000 χ^2/NDF :614913.4/20

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 1274172.7/18

Left In: 0.012 $\pm$ 0.000 χ^2/NDF :440670.7/19

Left: 0.012 $\pm$ 0.000 χ^2/NDF : 1056362.9/40

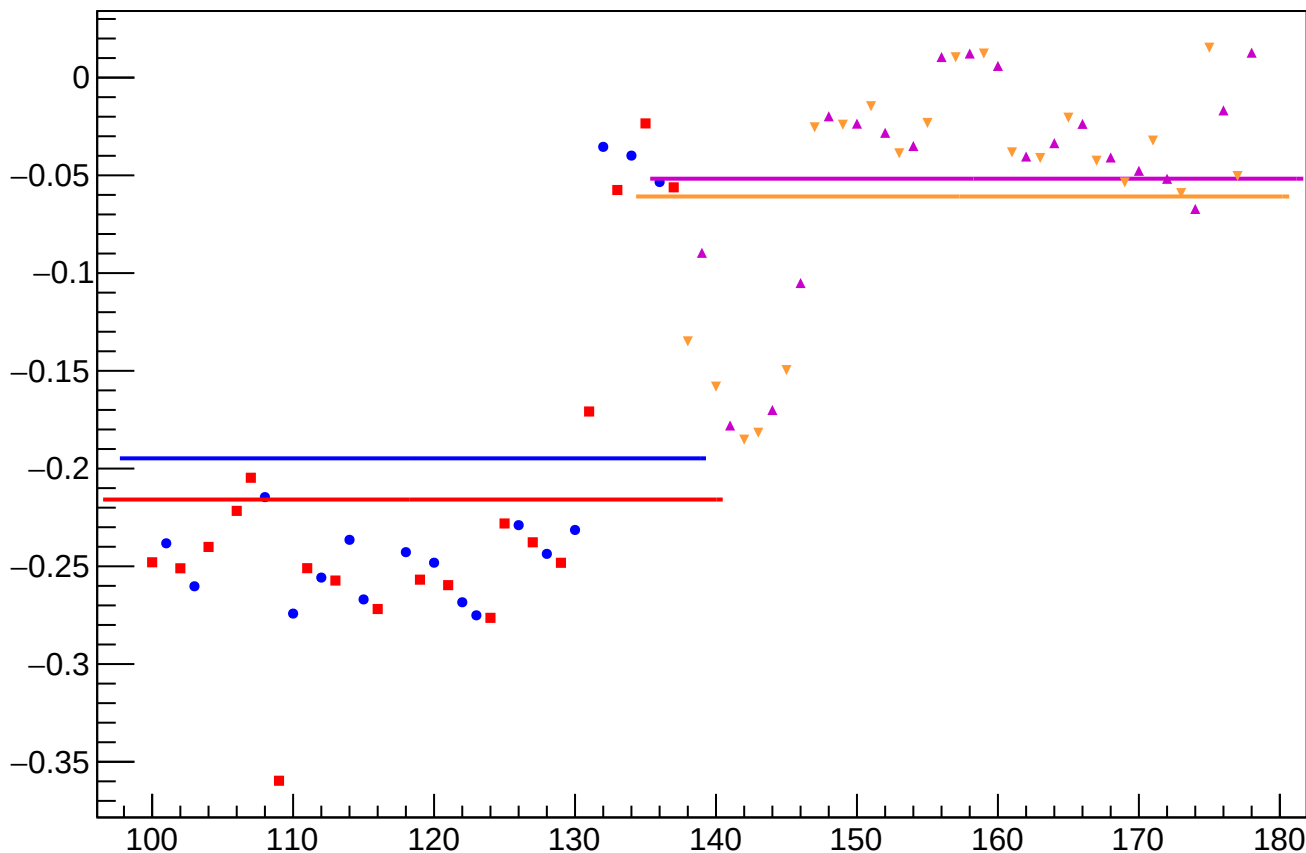
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 2698841.0/35

In: 0.013 $\pm$ 0.000 χ^2/NDF :2010081.9/36

Out: 0.013 $\pm$ 0.000 χ^2/NDF :2166879.3/39

All: 0.013 $\pm$ 0.000 χ^2/NDF : 4177125.3/76

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 :126585895.6/20

Right Out: -0.216+/-0.000 χ^2/NDF : 111983904.6/18

Left In: -0.052+/-0.000 χ^2/NDF :106060942.2/19

Left: -0.056+/-0.000 χ^2/NDF : 234074251.0/40

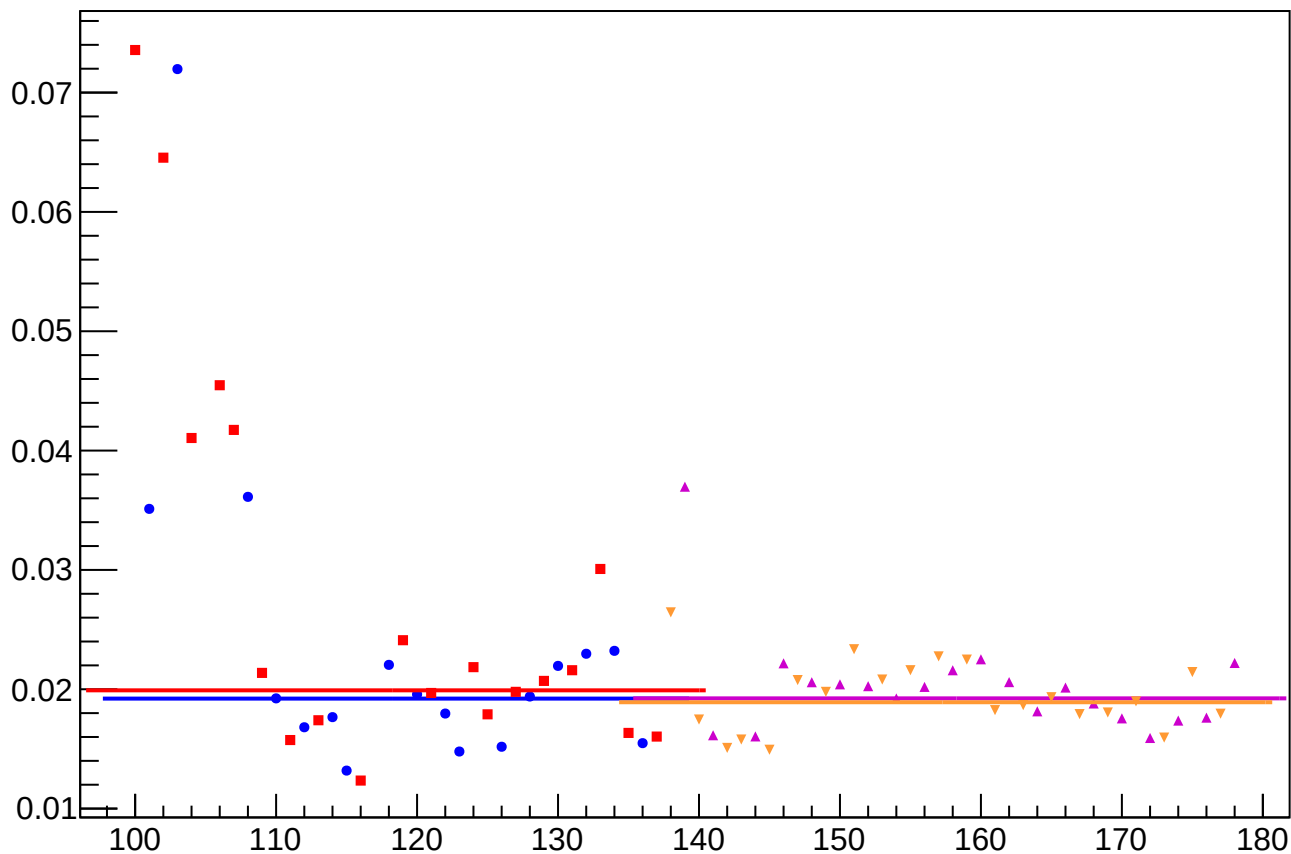
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.093+/-0.000 χ^2/NDF :412539786.2/36

Out: -0.103+/-0.000 χ^2/NDF :468360297.4/39

All: -0.098+/-0.000 χ^2/NDF : 883092476.6/76

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1177085.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 497268.7/20

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.019+/-0.000 χ^2/NDF : 605924.5/19

Left: 0.019+/-0.000 χ^2/NDF : 1106828.2/40

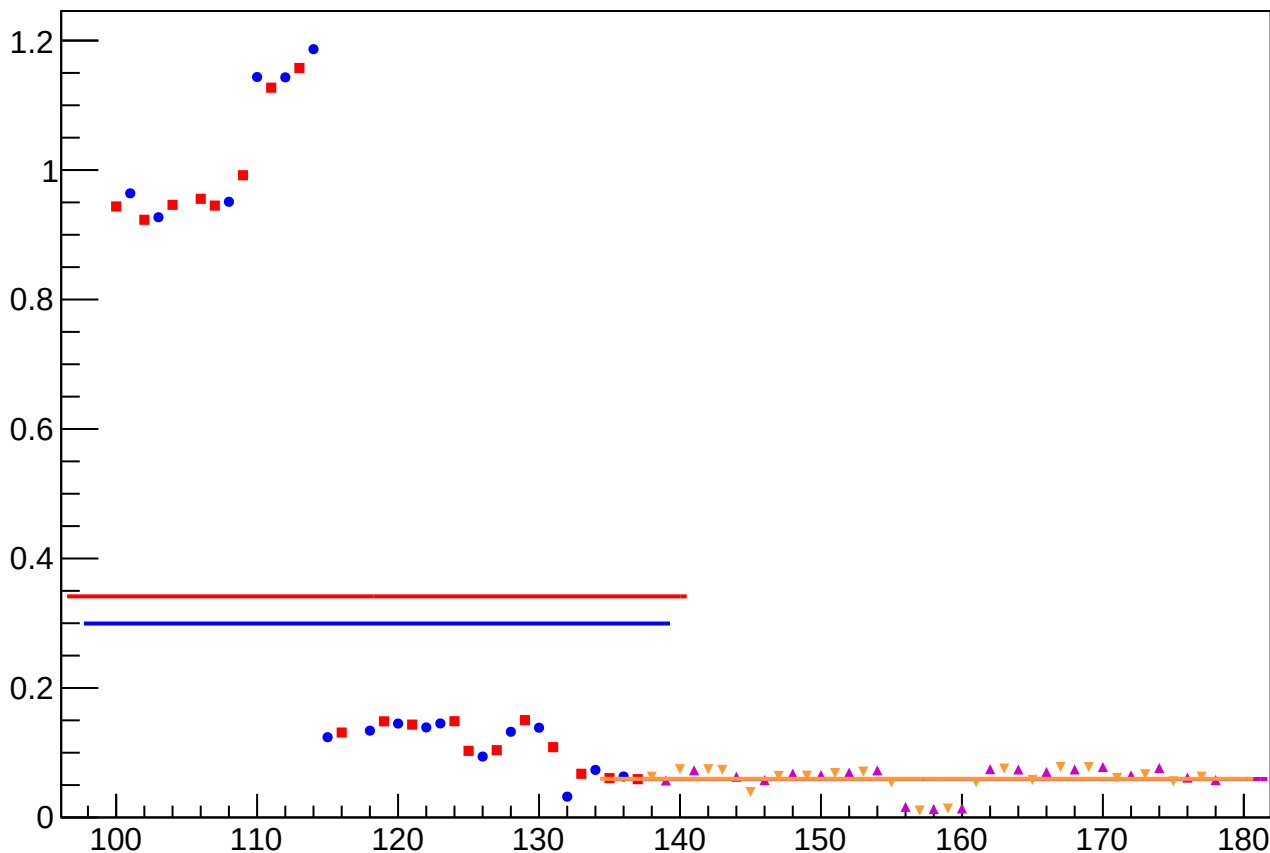
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1783017.5/36

Out: 0.019+/-0.000 χ^2/NDF : 1963251.4/39

All: 0.019+/-0.000 χ^2/NDF : 3746390.4/76

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.060+/-0.000 χ^2/NDF : 44010642.6/20

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.059+/-0.000 χ^2/NDF : 57226184.6/19

Left: 0.060+/-0.000 χ^2/NDF : 101241407.8/40

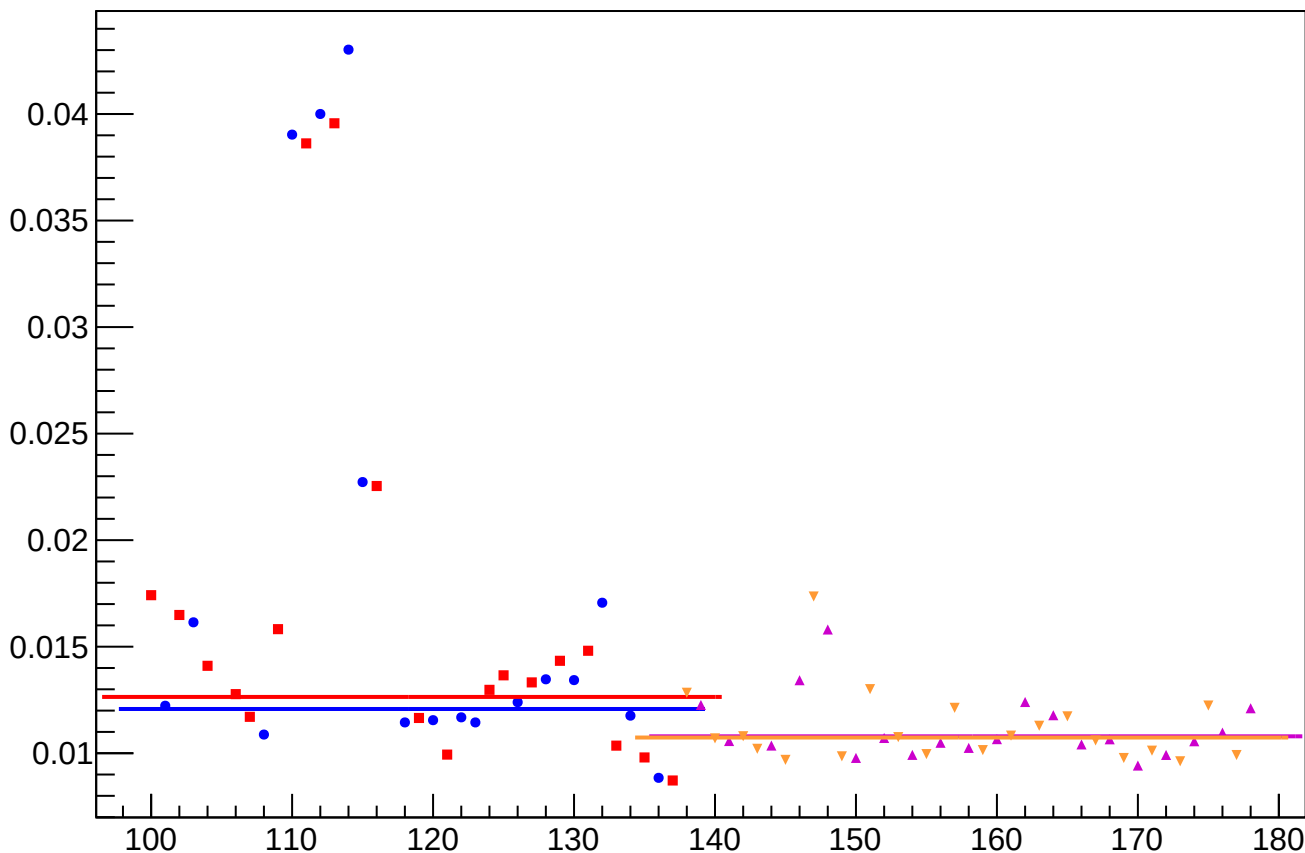
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.116+/-0.000 χ^2/NDF : 6933449736.9/36

Out: 0.122+/-0.000 χ^2/NDF : 7775142430.1/39

All: 0.119+/-0.000 χ^2/NDF : 14711277800.8/77

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:453127.5/20

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1237706.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:366275.8/19

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 819815.4/40

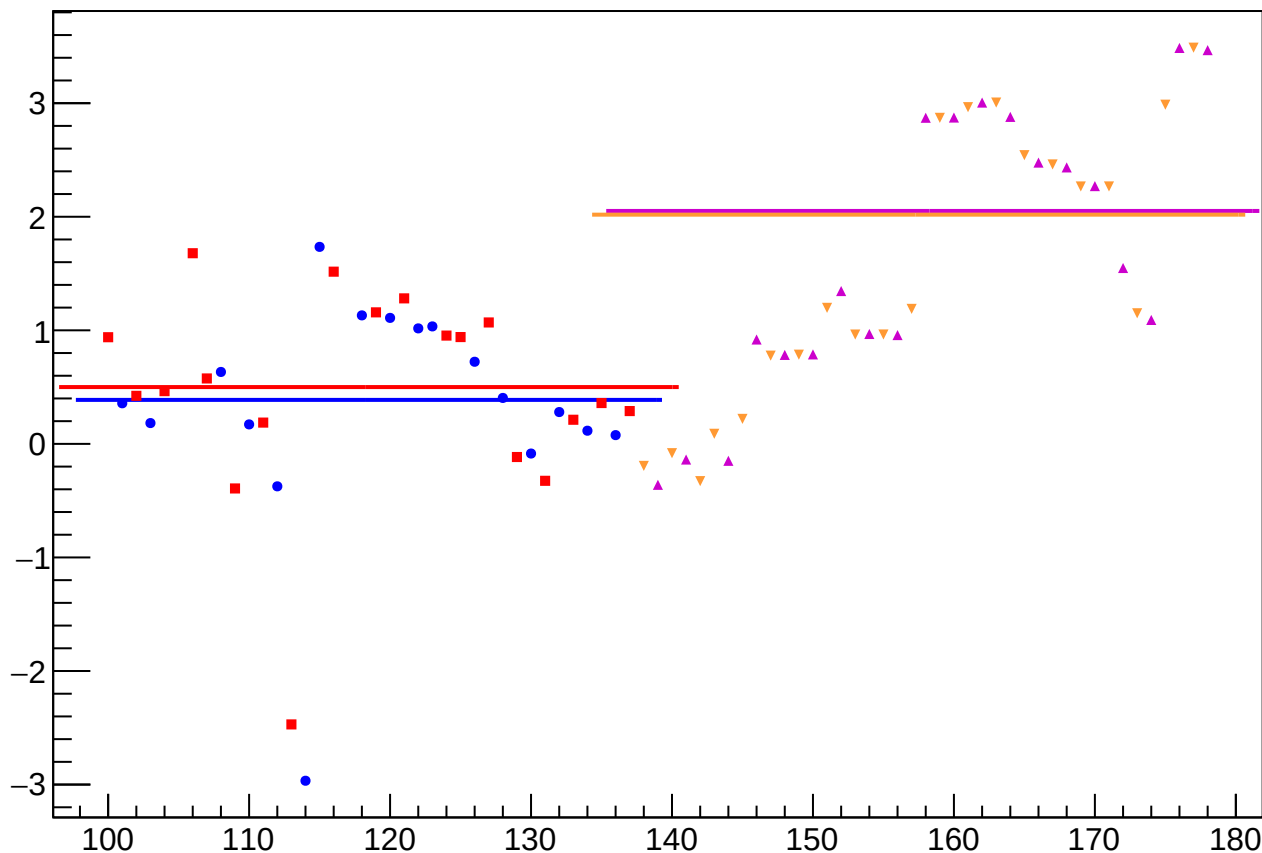
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1745975.4/36

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1899343.5/39

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3645928.7/76

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.000 χ^2/NDF : 247912593.5/16

Left Out: 2.018 $\pm$ 0.000 χ^2/NDF :37085749494.4/20

Right Out: 0.500 $\pm$ 0.000 χ^2/NDF : 983360928.1/18

Left In: 2.051 $\pm$ 0.000 χ^2/NDF :42150979049.1/19

Left: 2.035 $\pm$ 0.000 χ^2/NDF : 79259647272.1/40

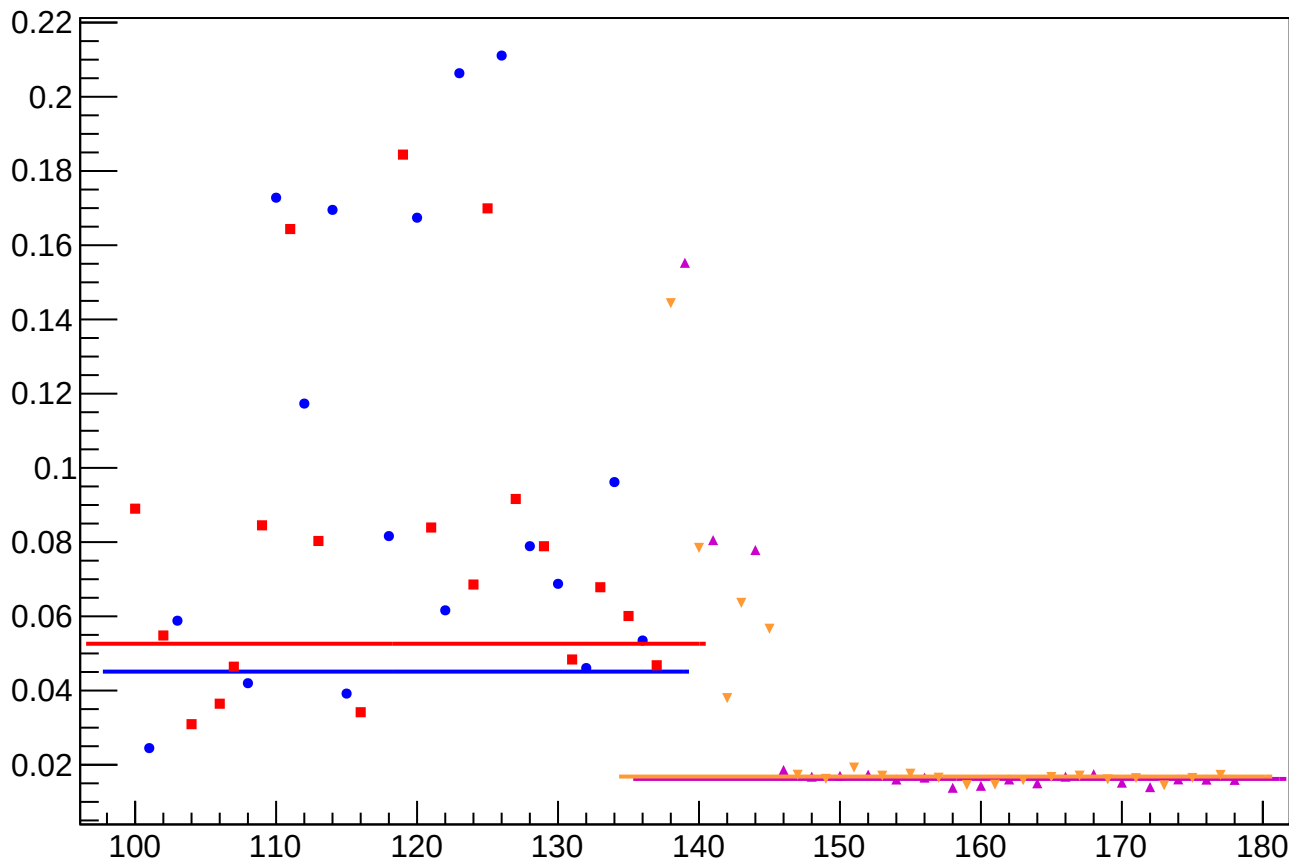
Right: 0.439 $\pm$ 0.000 χ^2/NDF : 1241544973.3/35

In: 1.988 $\pm$ 0.000 χ^2/NDF :47057345870.0/36

Out: 1.966 $\pm$ 0.000 χ^2/NDF :41390301597.6/39

All: 1.977 $\pm$ 0.000 χ^2/NDF : 88459053932.6/71

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2776795.9/20

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.016+/-0.000 χ^2/NDF : 2381236.9/19

Left: 0.016+/-0.000 χ^2/NDF : 5175688.0/40

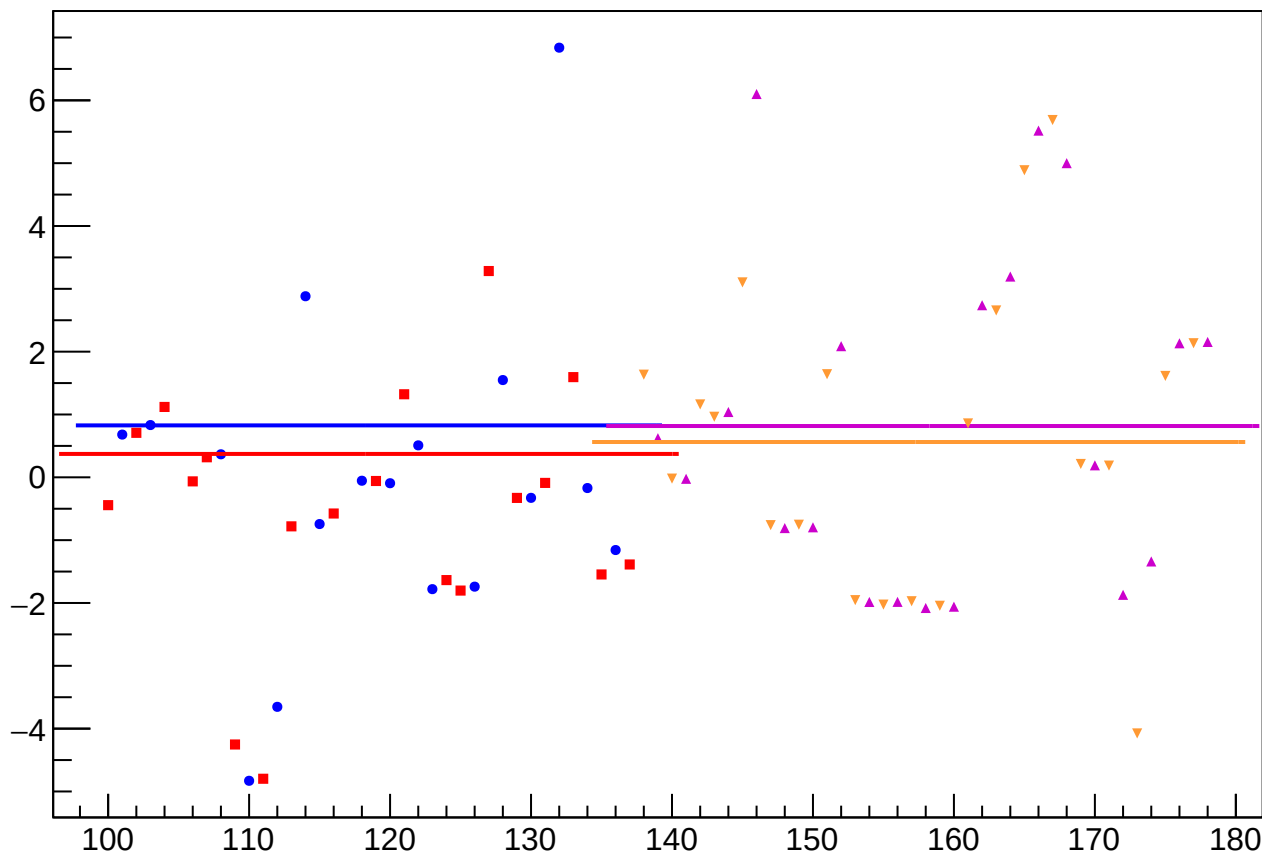
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.017+/-0.000 χ^2/NDF : 8041711.4/36

Out: 0.018+/-0.000 χ^2/NDF : 8657821.5/39

All: 0.018+/-0.000 χ^2/NDF : 16727567.7/76

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.693+/-0.000

χ^2/NDF : 1042315245679.4/40

Right: 0.613+/-0.000

χ^2/NDF : 16291516809.6/35

Left Out: 0.562+/-0.000

χ^2/NDF : 484981645732.1/20

In: 0.817+/-0.000

χ^2/NDF : 565977499672.5/36

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

Out: 0.553+/-0.000

χ^2/NDF : 490074619384.3/39

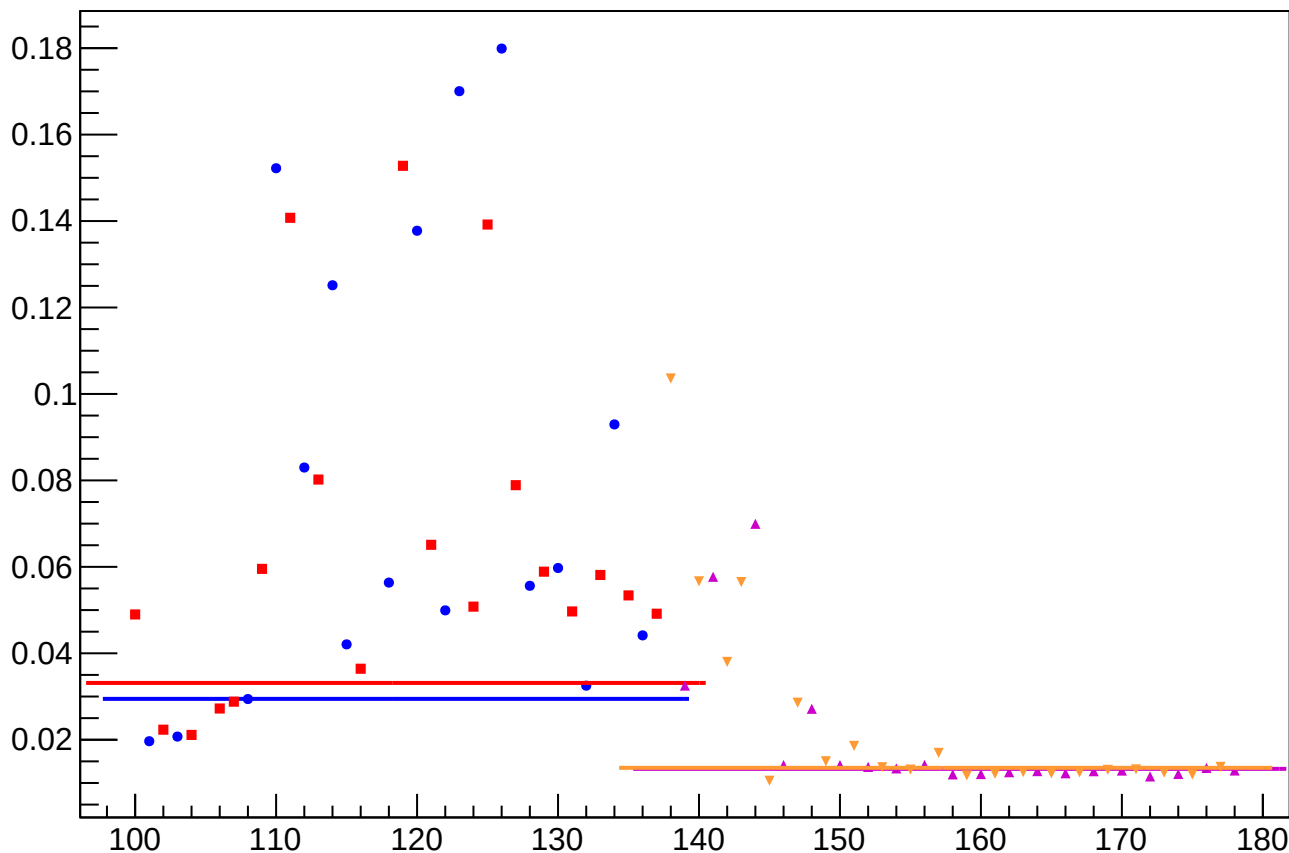
Left In: 0.817+/-0.000

χ^2/NDF : 555040667496.4/19

All: 0.689+/-0.000

χ^2/NDF : 1058651764676.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.014+/-0.000 χ^2/NDF :2891407.0/20

Right Out: 0.033+/-0.000 χ^2/NDF : 3096820.9/18

Left In: 0.013+/-0.000 χ^2/NDF :1929008.6/19

Left: 0.013+/-0.000 χ^2/NDF : 4824503.9/40

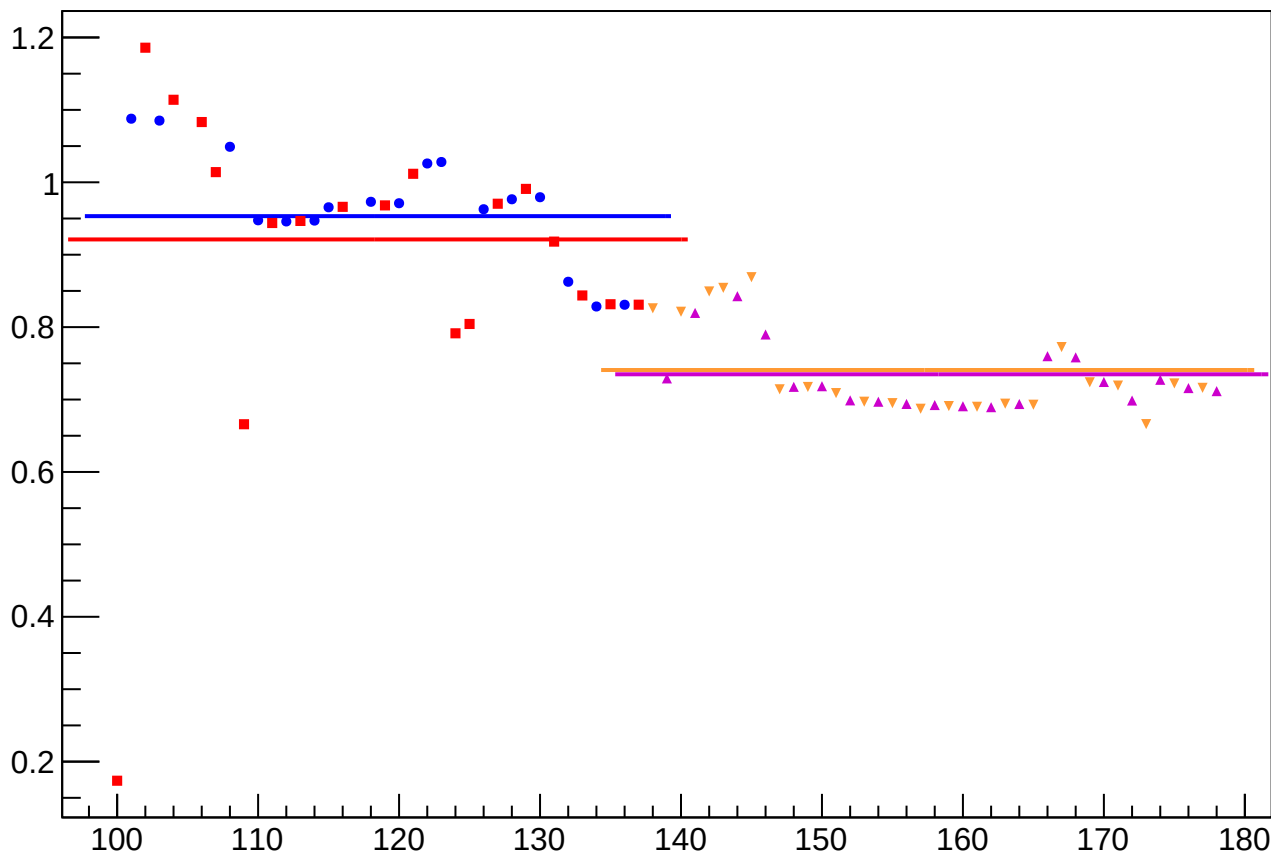
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.014+/-0.000 χ^2/NDF :6939672.3/36

Out: 0.014+/-0.000 χ^2/NDF :8556278.3/39

All: 0.014+/-0.000 χ^2/NDF : 15505348.4/76

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.741+/-0.000 χ^2/NDF : 292003980.7/20

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.735+/-0.000 χ^2/NDF : 166752208.6/19

Left: 0.738+/-0.000 χ^2/NDF : 460020070.1/40

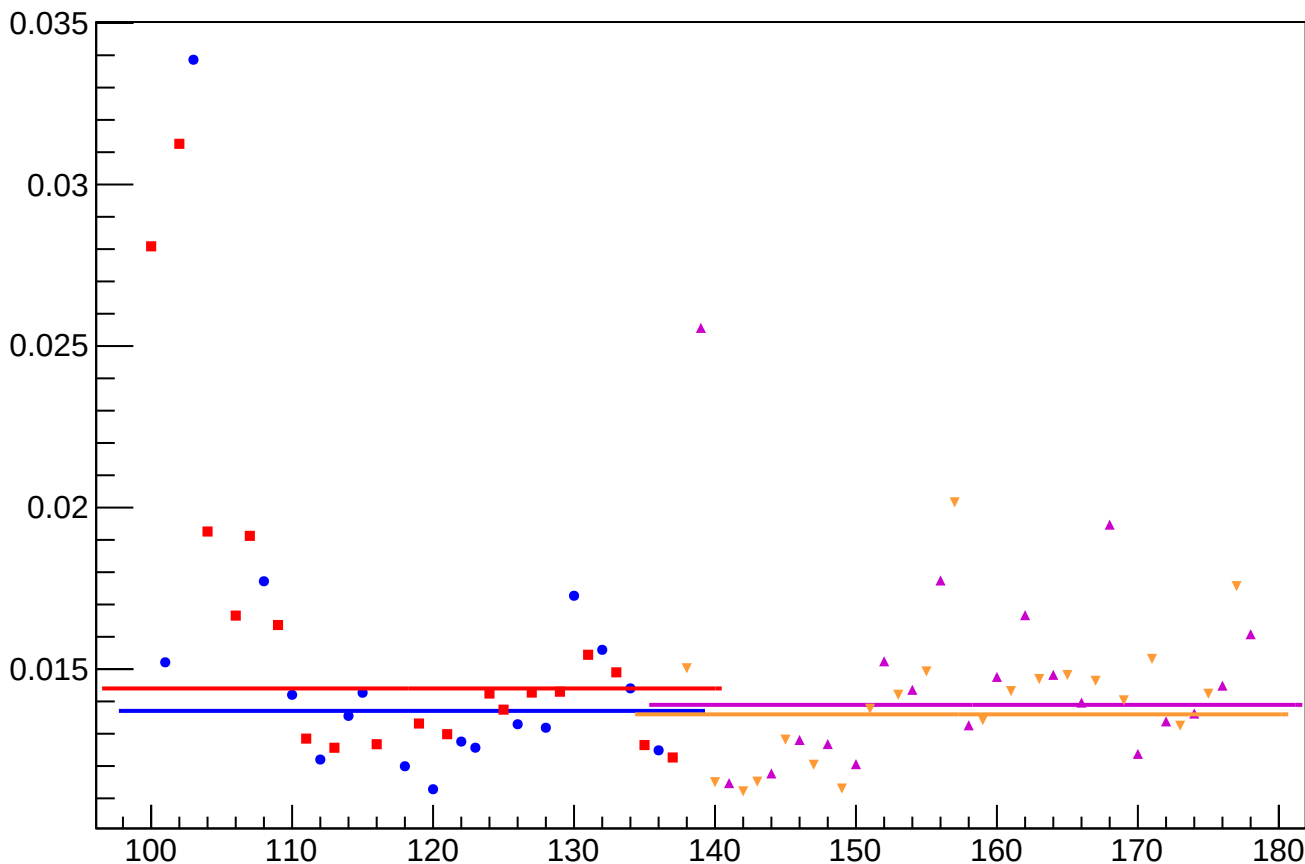
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.801+/-0.000 χ^2/NDF : 1369186719.0/36

Out: 0.792+/-0.000 χ^2/NDF : 1350768802.7/39

All: 0.797+/-0.000 χ^2/NDF : 2724674155.2/76

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.014+/-0.000 χ^2/NDF : 471026.5/20

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF : 756207.4/19

Left: 0.014+/-0.000 χ^2/NDF : 1233502.6/40

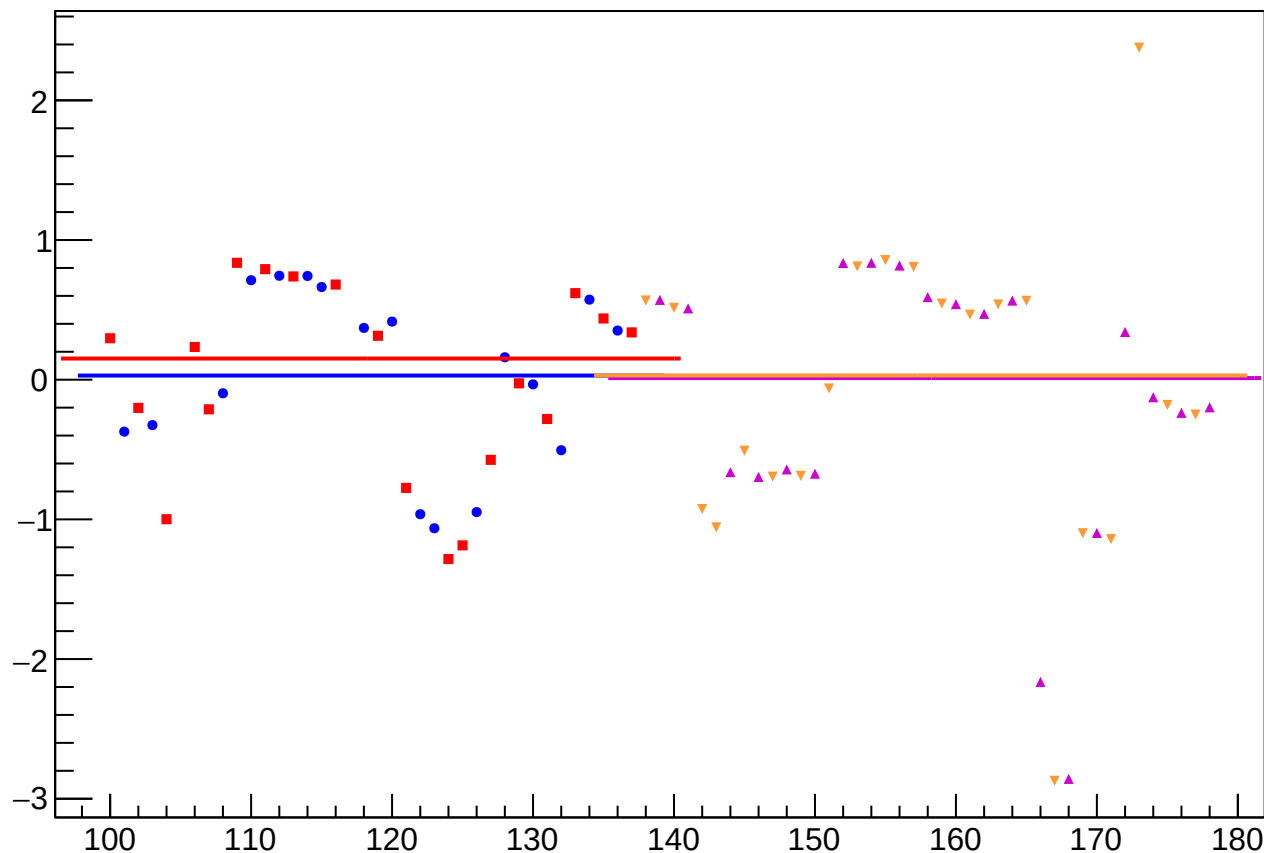
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1304022.4/36

Out: 0.014+/-0.000 χ^2/NDF : 999860.3/39

All: 0.014+/-0.000 χ^2/NDF : 2303893.9/76

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 6294824795.0/16

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:95482825883.5/20

Right Out: 0.152 $\pm$ 0.000 χ^2 /NDF: 12661812059.7/18

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:78759003823.1/19

Left: 0.021 $\pm$ 0.000 χ^2 /NDF: 174258610778.8/40

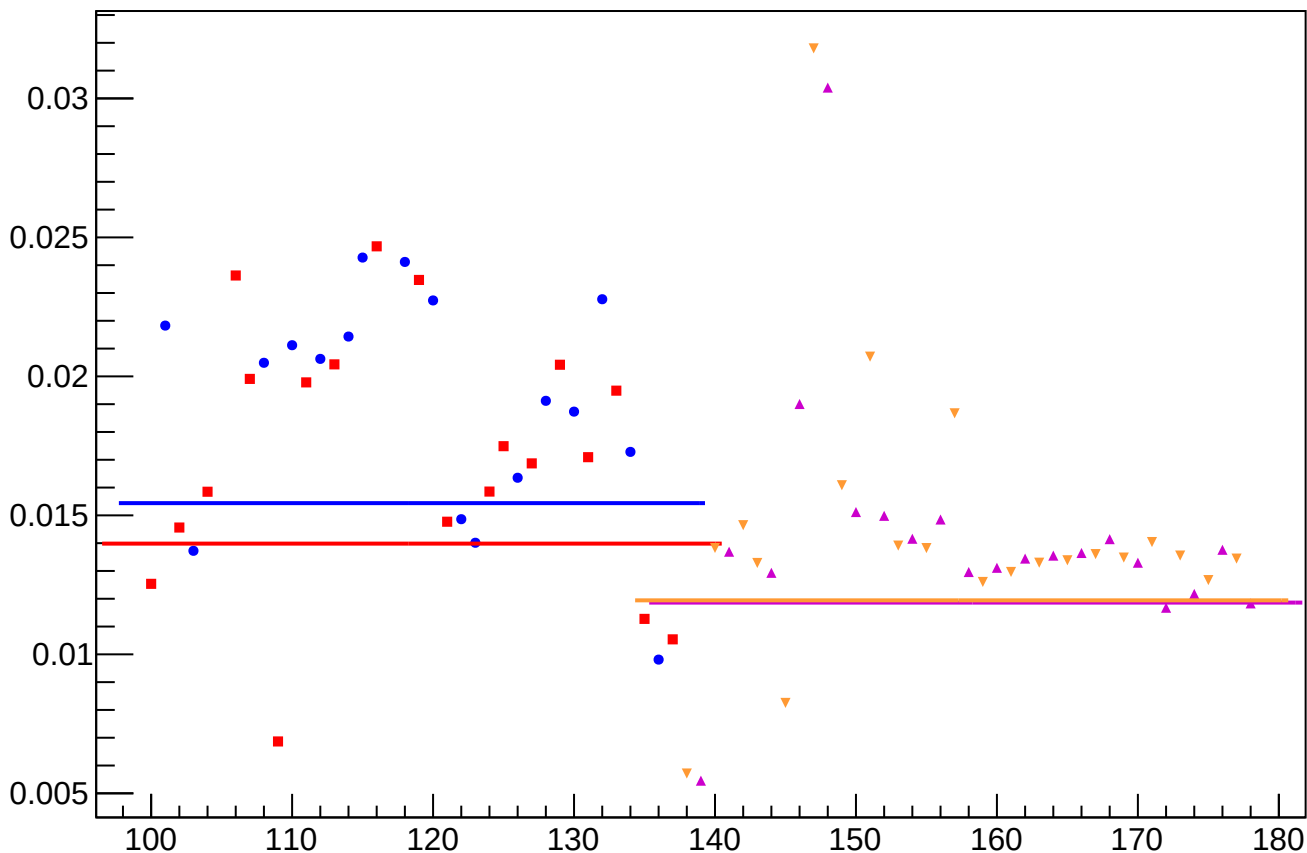
Right: 0.096 $\pm$ 0.000 χ^2 /NDF: 19149304558.7/35

In: 0.015 $\pm$ 0.000 χ^2 /NDF:85059969345.9/36

Out: 0.059 $\pm$ 0.000 χ^2 /NDF:108466262275.1/39

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 193639408304.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3065211.6/20

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 2969083.4/19

Left: 0.012+/-0.000 χ^2/NDF : 6034905.7/40

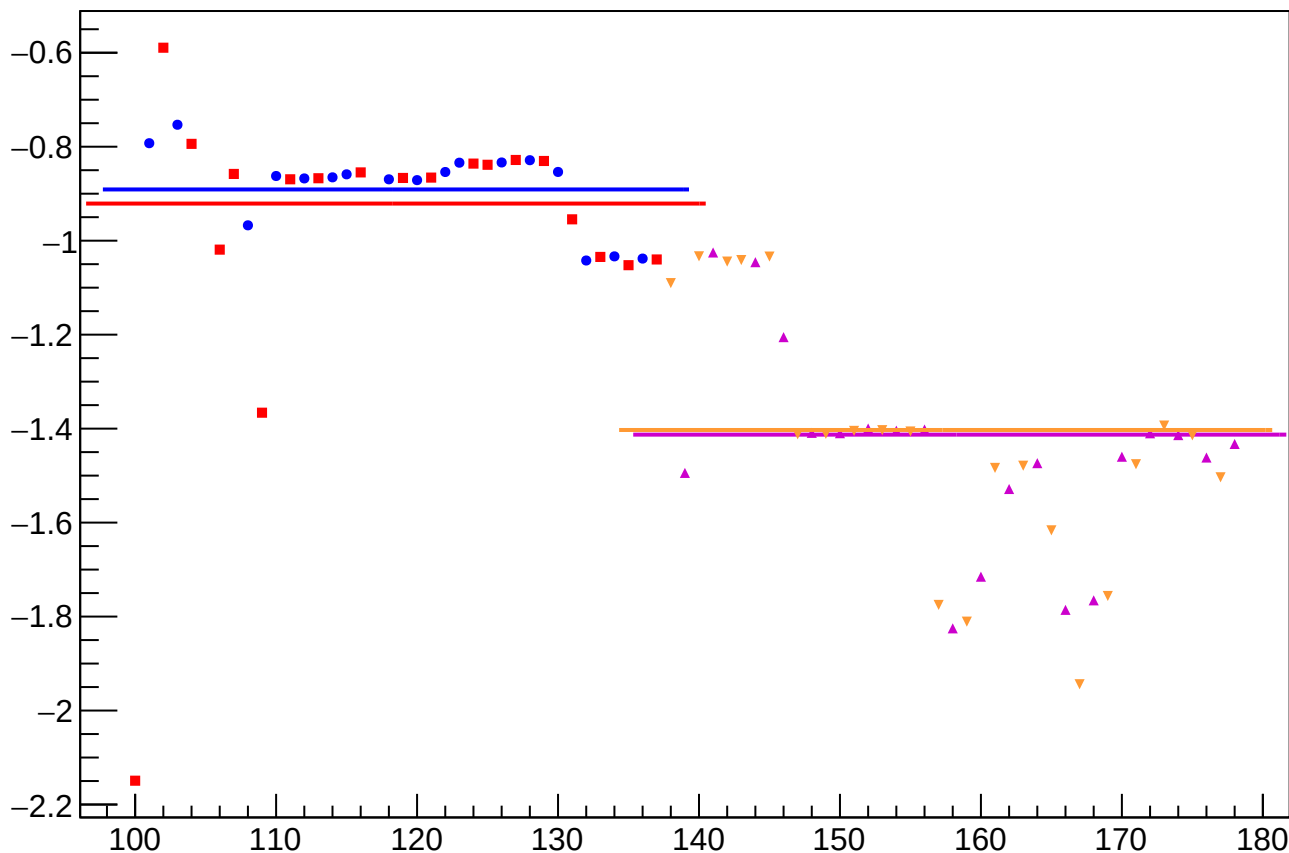
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4615706.7/36

Out: 0.012+/-0.000 χ^2/NDF : 4809104.1/39

All: 0.012+/-0.000 χ^2/NDF : 9428174.5/76

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 39578323.2/16$

Left Out: -1.403 ± 0.000 $\chi^2/\text{NDF}: 721582853.1/20$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 131183059.9/18$

Left In: -1.413 ± 0.000 $\chi^2/\text{NDF}: 512265965.9/19$

Left: -1.408 ± 0.000 $\chi^2/\text{NDF}: 1234378470.4/40$

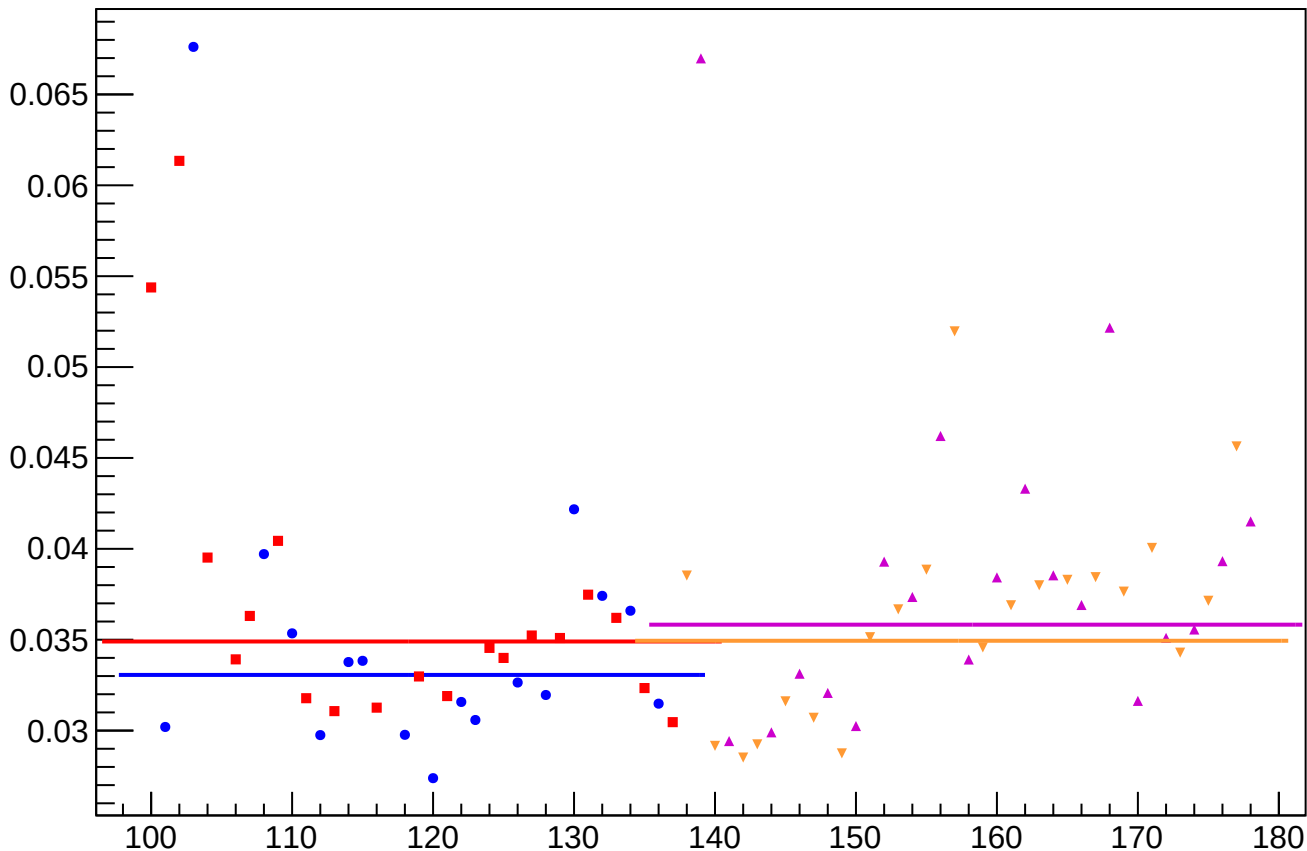
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173111604.1/35$

In: -1.236 ± 0.000 $\chi^2/\text{NDF}: 1519643588.7/36$

Out: -1.253 ± 0.000 $\chi^2/\text{NDF}: 1660530244.6/39$

All: -1.245 ± 0.000 $\chi^2/\text{NDF}: 3182347095.8/77$

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 :534349.3/20

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.036+/-0.000 χ^2/NDF :848101.6/19

Left: 0.035+/-0.000 χ^2/NDF : 1390936.6/40

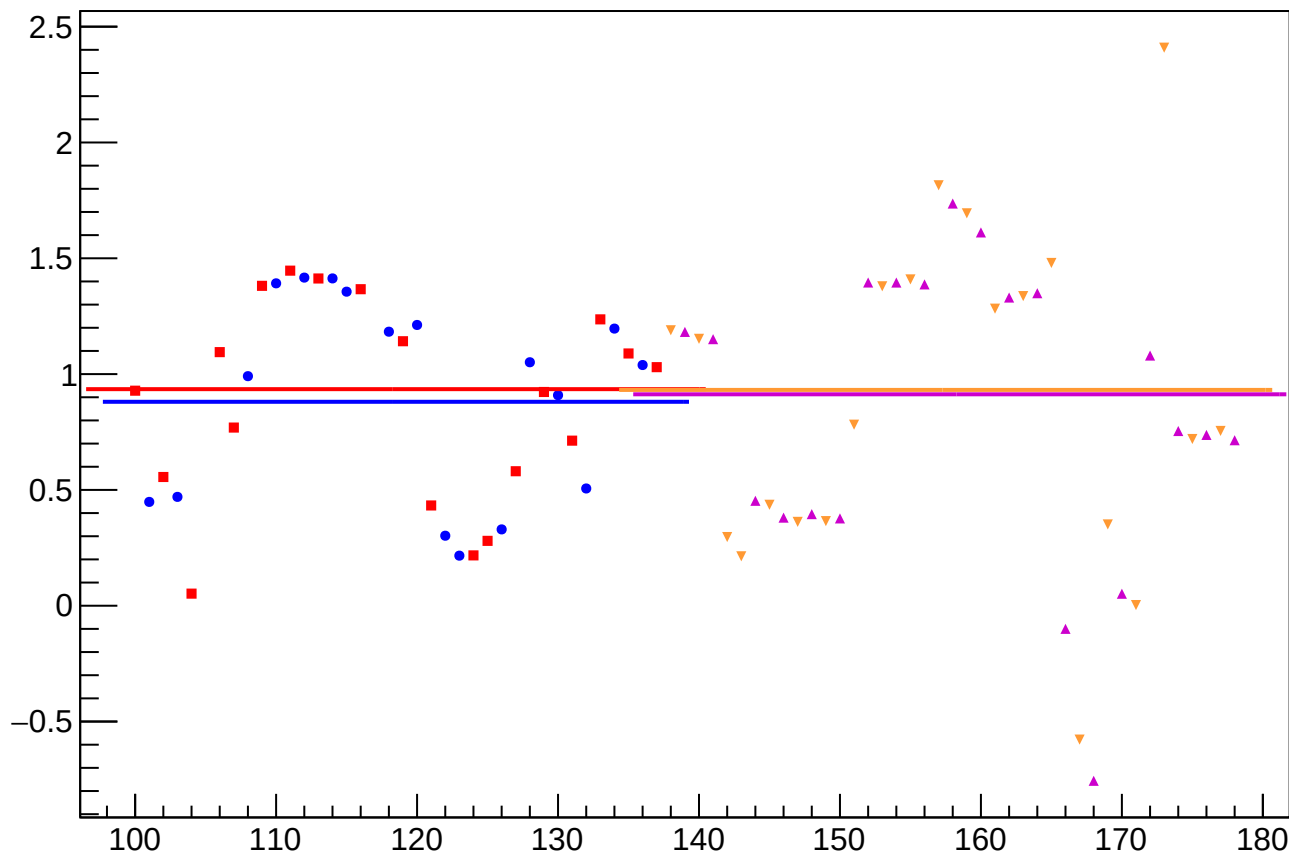
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF :1311728.9/36

Out: 0.035+/-0.000 χ^2/NDF :808631.2/39

All: 0.035+/-0.000 χ^2/NDF : 2120382.6/76

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880+/-0.000

χ^2/NDF : 6400108121.4/16

Left: 0.922+/-0.000 χ^2/NDF : 149127423079.4/40

Right: 0.909+/-0.000 χ^2/NDF : 16315238009.2/35

Left Out: 0.932+/-0.000

χ^2/NDF : 82921289575.4/20

In: 0.905+/-0.000 χ^2/NDF : 72615783507.9/36

Right Out: 0.935+/-0.000

χ^2/NDF : 9833525935.6/18

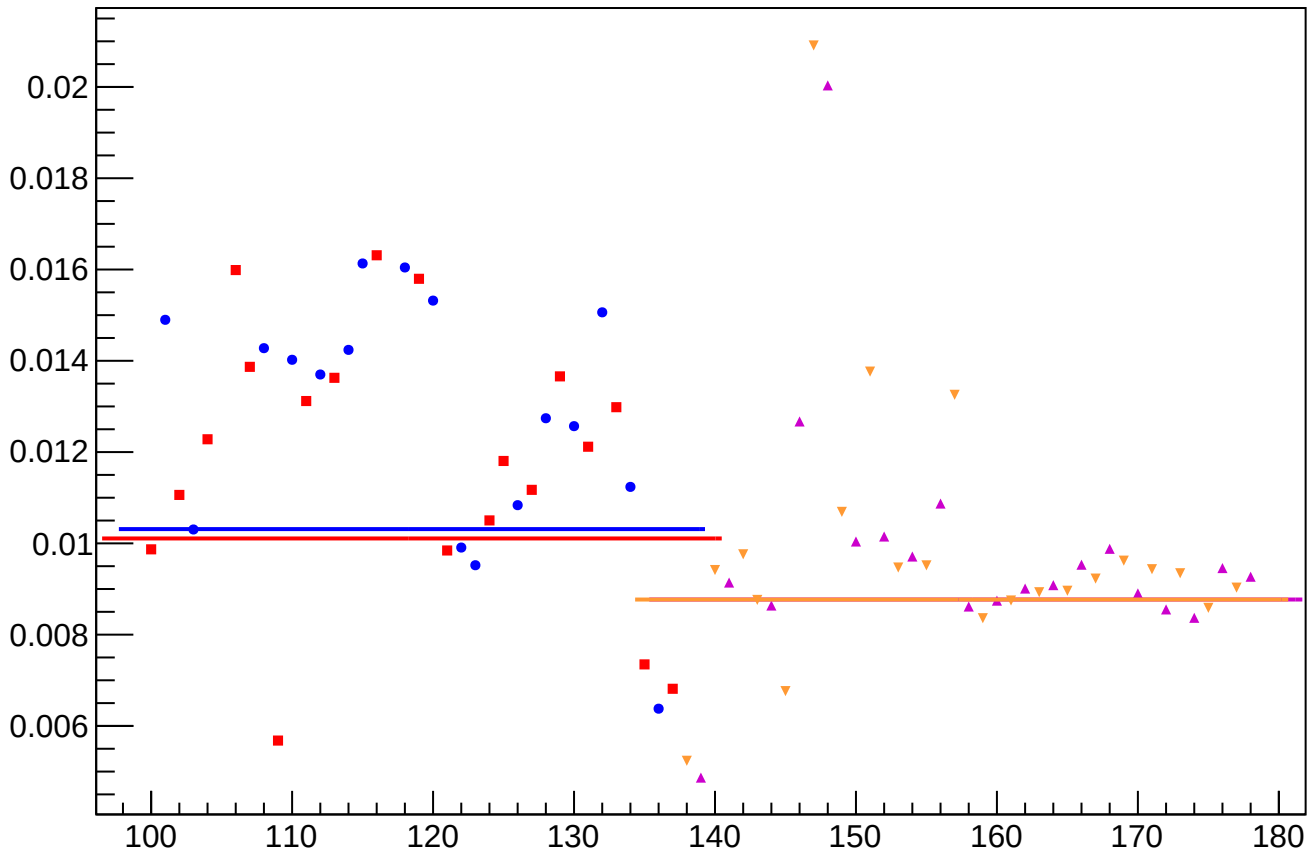
Out: 0.933+/-0.000 χ^2/NDF : 92755270701.6/39

Left In: 0.913+/-0.000

χ^2/NDF : 66173054207.0/19

All: 0.919+/-0.000 χ^2/NDF : 165458272487.9

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1231066.2/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1695456.7/20

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1178489.1/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1607872.2/19

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3303329.0/40

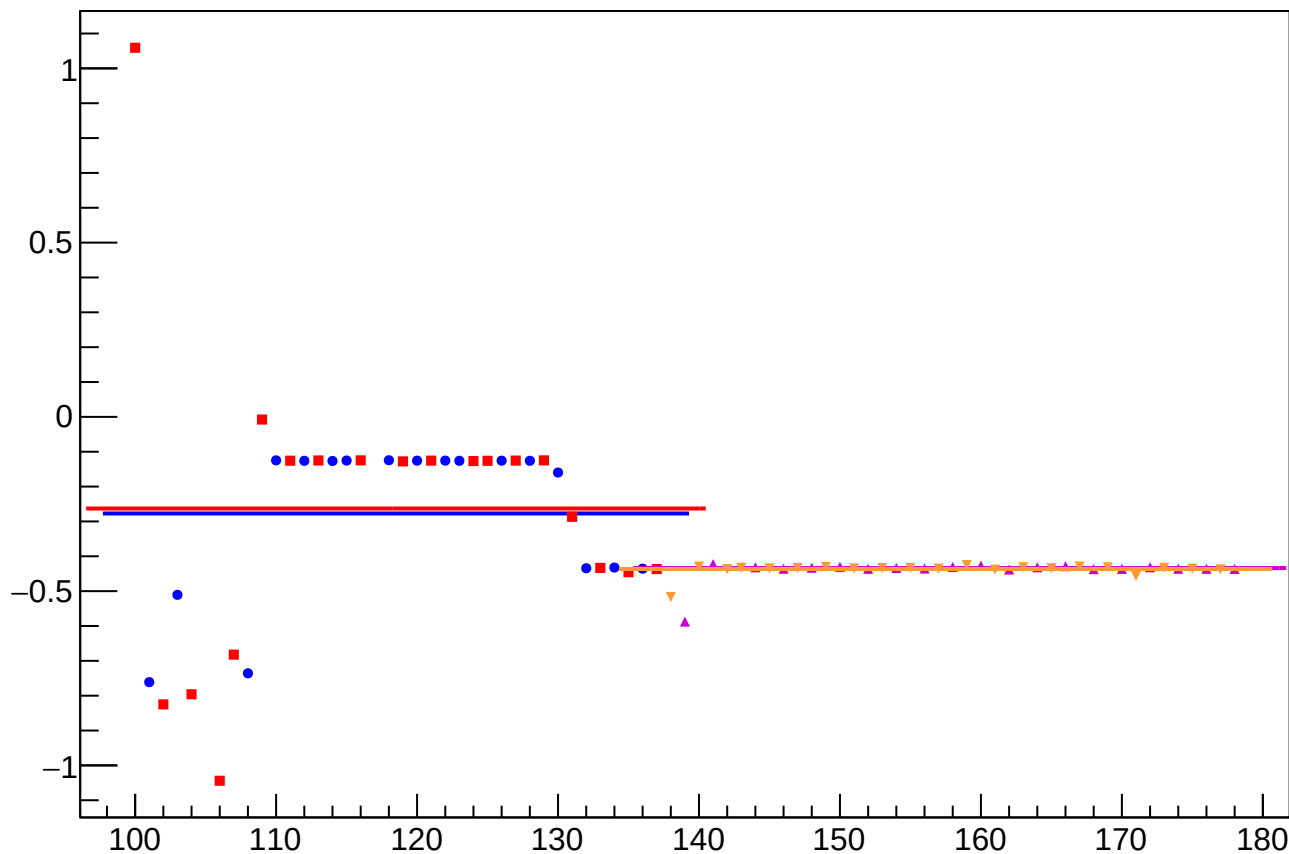
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 2411867.8/35

In: 0.009 $\pm$ 0.000 χ^2 /NDF:3033328.6/36

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:3030495.8/39

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 6064110.3/76

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277 ± 0.000 $\chi^2/\text{NDF}: 940562986.7/16$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28749787.4/20$

Right Out: -0.263 ± 0.000 $\chi^2/\text{NDF}: 1008398102.0/18$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23787464.5/19$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53003625.4/40$

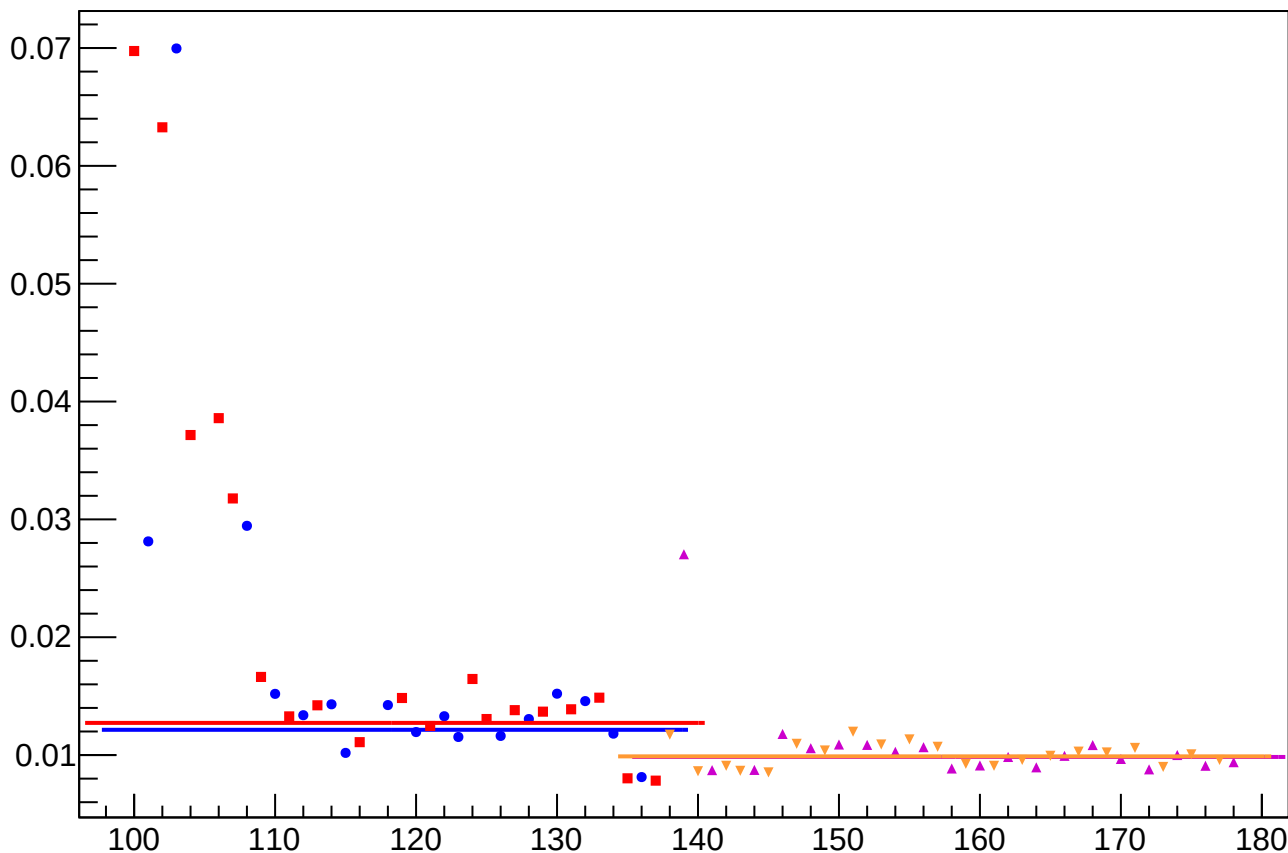
Right: -0.270 ± 0.000 $\chi^2/\text{NDF}: 1952121842.2/35$

In: -0.403 ± 0.000 $\chi^2/\text{NDF}: 1596610387.2/36$

Out: -0.405 ± 0.000 $\chi^2/\text{NDF}: 1775294893.4/39$

All: -0.404 ± 0.000 $\chi^2/\text{NDF}: 3372136153.7/77$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1727494.7/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:248255.9/20

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1969165.0/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:737302.9/19

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 985878.4/40

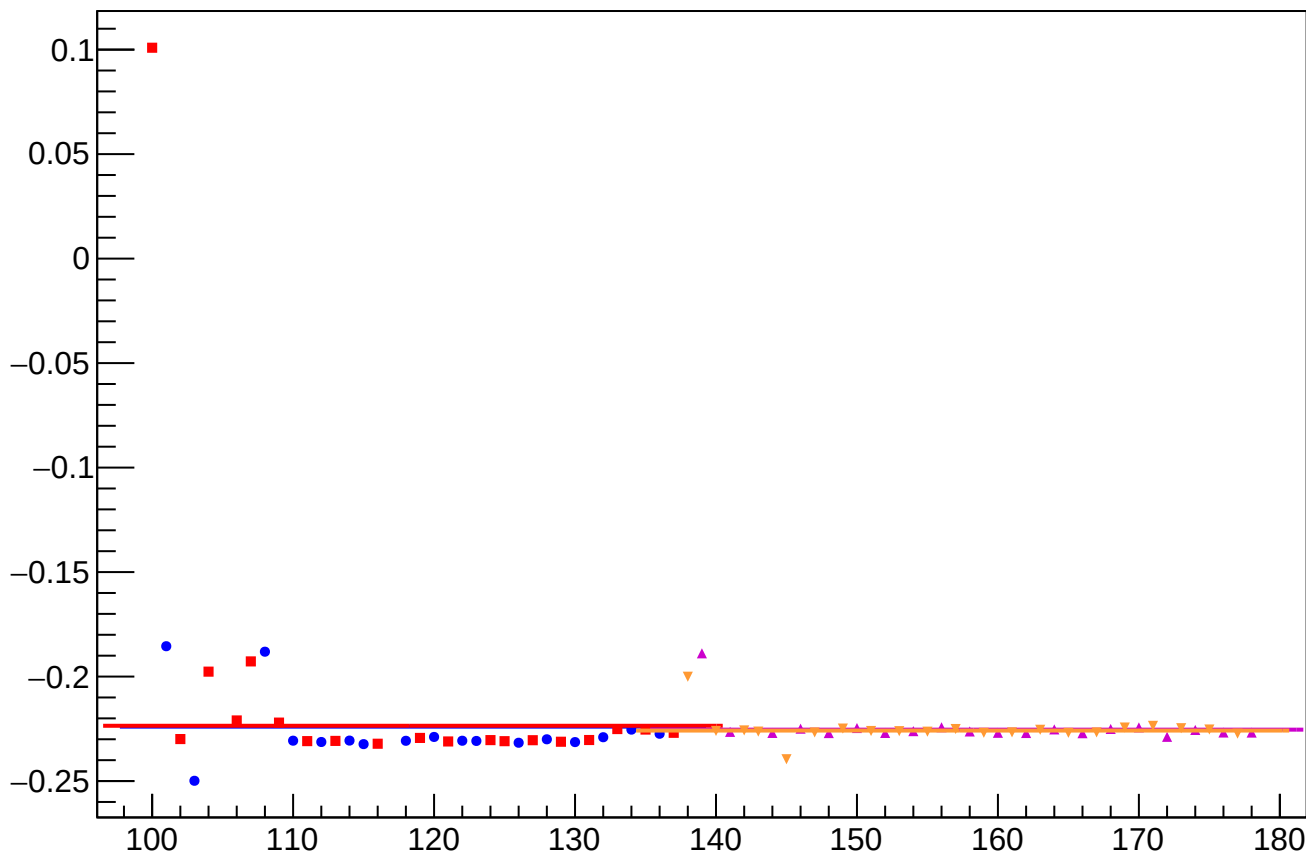
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2738540.2/36

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2613233.1/39

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5353957.6/76

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224 ± 0.000 χ^2/NDF : 74704721.6/16

Left Out: -0.226 ± 0.000 χ^2/NDF : 20935934.1/20

Right Out: -0.224 ± 0.000 χ^2/NDF : 168125914.6/18

Left In: -0.225 ± 0.000 χ^2/NDF : 14798735.4/19

Left: -0.226 ± 0.000 χ^2/NDF : 35785848.4/40

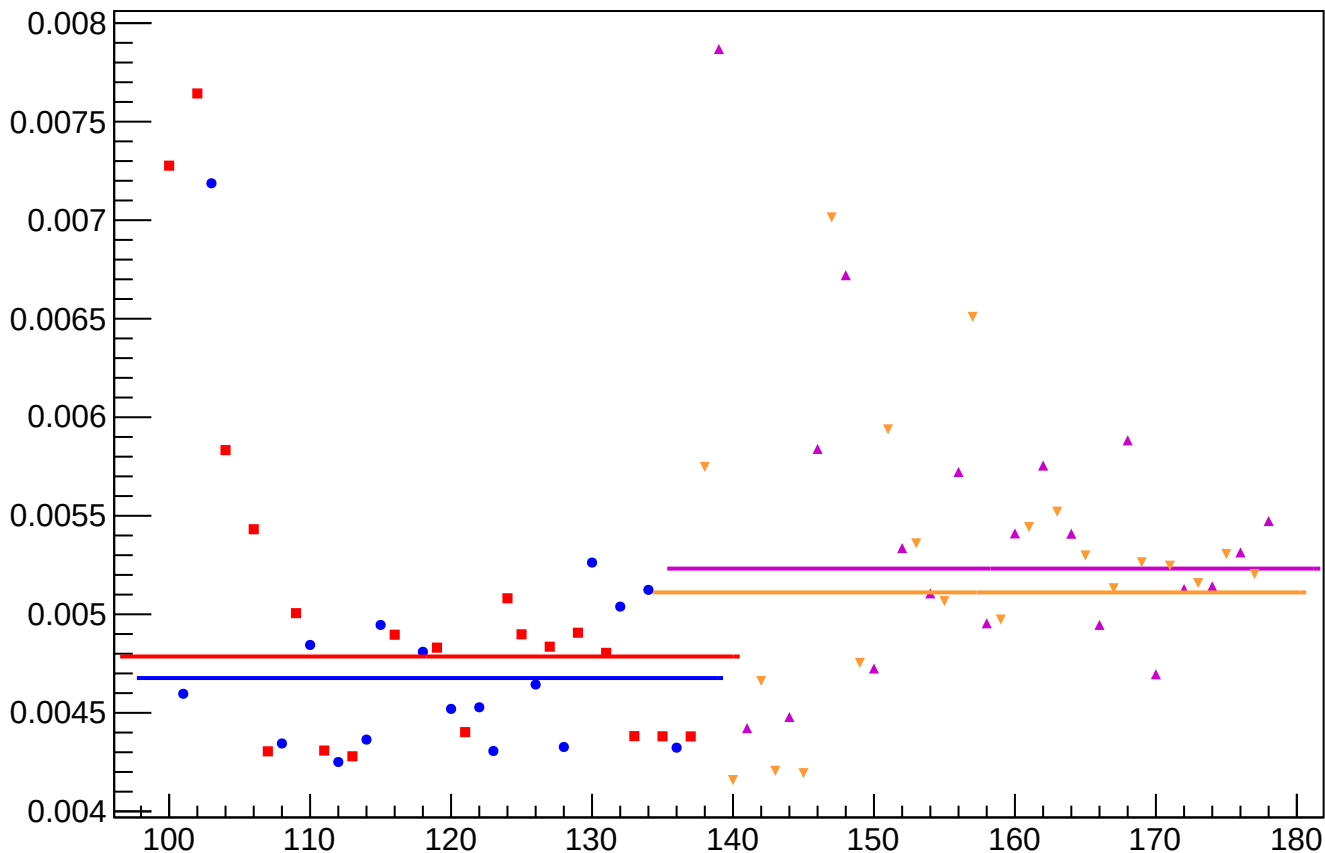
Right: -0.224 ± 0.000 χ^2/NDF : 242852935.9/35

In: -0.225 ± 0.000 χ^2/NDF : 89887420.9/36

Out: -0.225 ± 0.000 χ^2/NDF : 190040204.9/39

All: -0.225 ± 0.000 χ^2/NDF : 279940151.3/76

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 181335.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 454210.5/20

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 429991.9/19

Left: 0.005+/-0.000 χ^2/NDF : 892166.8/40

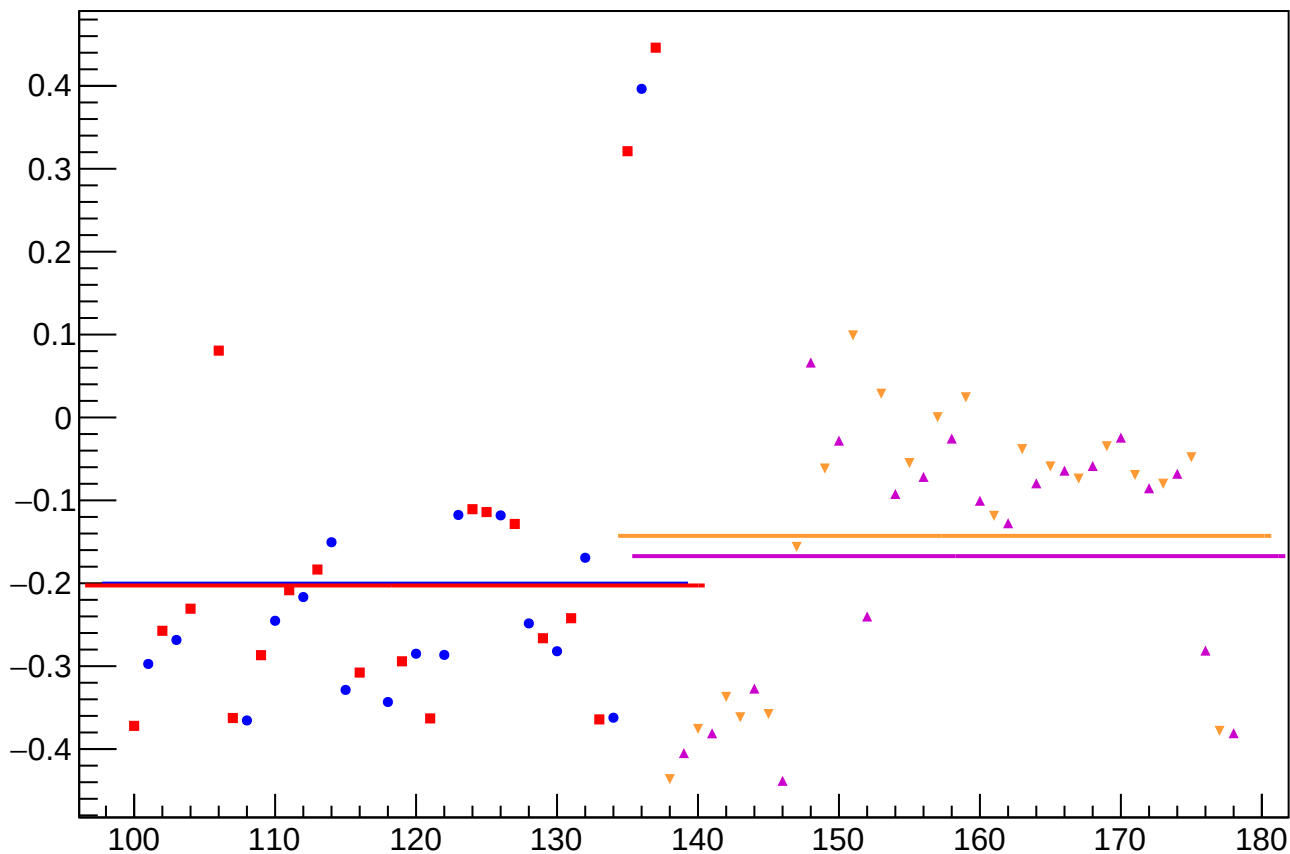
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 723223.6/36

Out: 0.005+/-0.000 χ^2/NDF : 741919.3/39

All: 0.005+/-0.000 χ^2/NDF : 1466325.5/76

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 $\chi^2/\text{NDF}: 5973556486.0/16$

Left Out: -0.143 ± 0.000 $\chi^2/\text{NDF}: 13460852361.4/20$

Right Out: -0.203 ± 0.000 $\chi^2/\text{NDF}: 5028268807.1/18$

Left In: -0.167 ± 0.000 $\chi^2/\text{NDF}: 10637361765.7/19$

Left: -0.155 ± 0.000 $\chi^2/\text{NDF}: 24248946231.1/40$

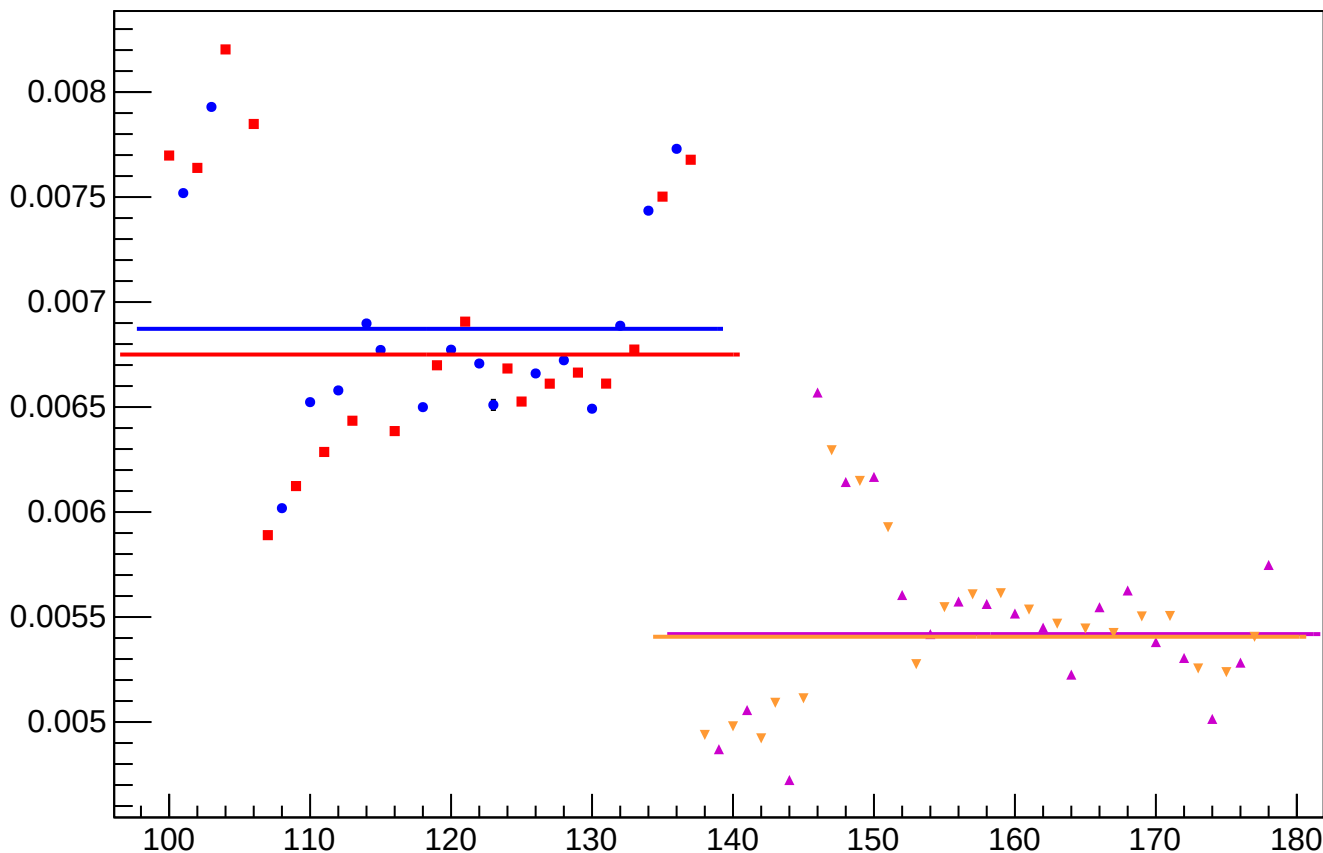
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 11002181720.9/35$

In: -0.175 ± 0.000 $\chi^2/\text{NDF}: 16730240512.1/36$

Out: -0.156 ± 0.000 $\chi^2/\text{NDF}: 18906441597.9/39$

All: -0.165 ± 0.000 $\chi^2/\text{NDF}: 35742867128.1/78$

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 :109547.4/20

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF :164901.6/19

Left: 0.005+/-0.000 χ^2/NDF : 274528.7/40

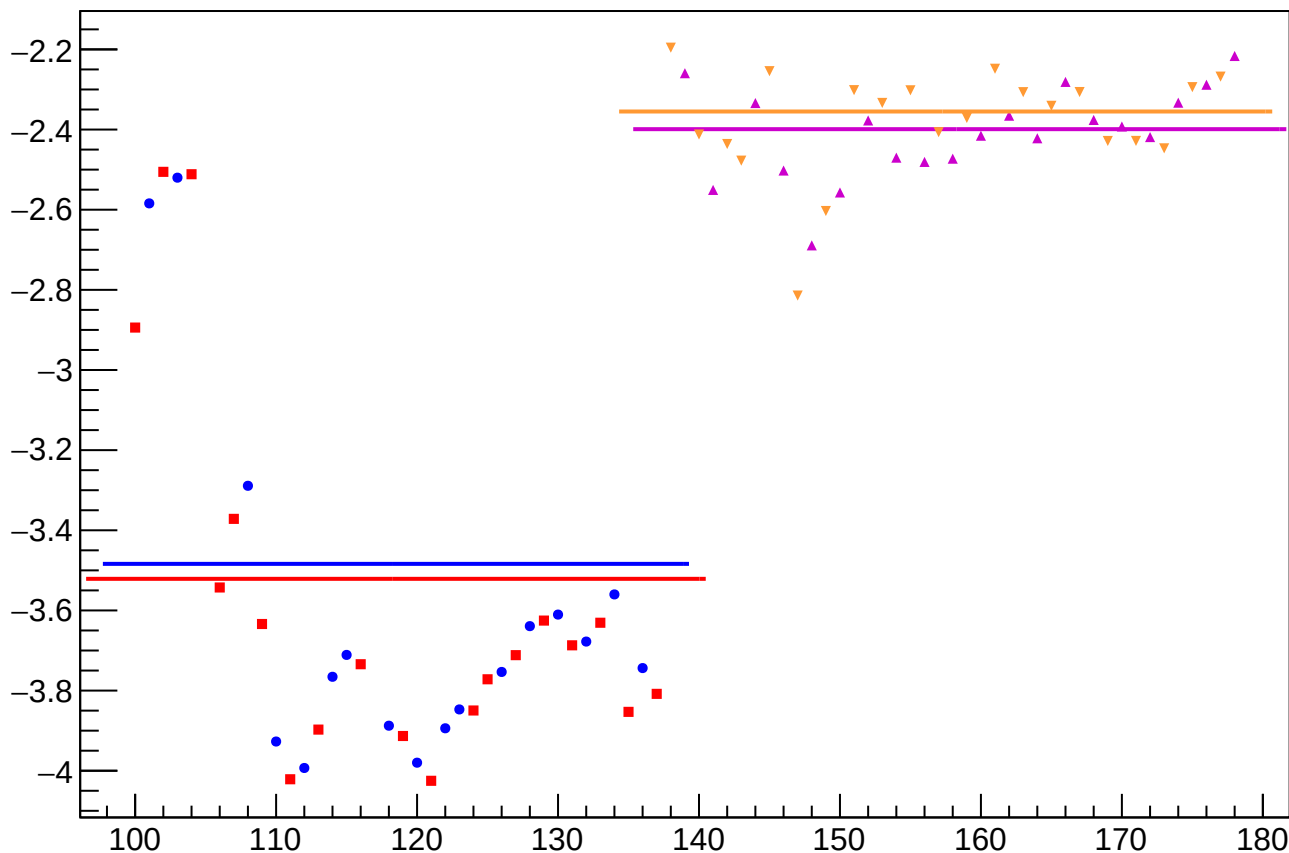
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :702236.6/36

Out: 0.006+/-0.000 χ^2/NDF :635619.7/39

All: 0.006+/-0.000 χ^2/NDF : 1338255.3/76

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.355+/-0.000 χ^2/NDF : 2015019581.6/20

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.399+/-0.000 χ^2/NDF : 1718720242.9/19

Left: -2.377+/-0.000 χ^2/NDF : 3922841860.8/40

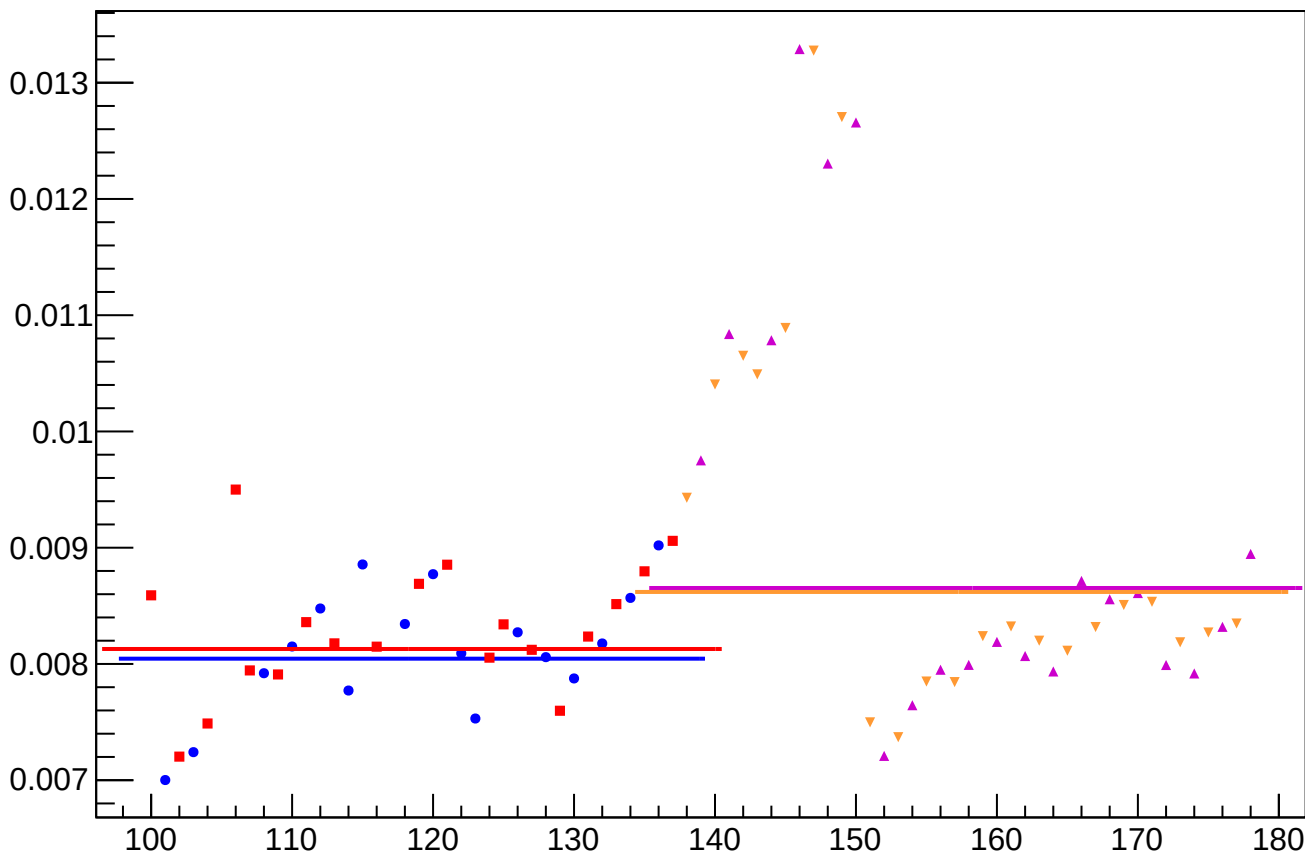
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.772+/-0.000 χ^2/NDF : 106494980670.3/36

Out: -2.753+/-0.000 χ^2/NDF : 120290069737.1/39

All: -2.763+/-0.000 χ^2/NDF : 226838531716.7

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 604831.2/20

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 730257.7/19

Left: 0.009+/-0.000 χ^2/NDF : 1335314.2/40

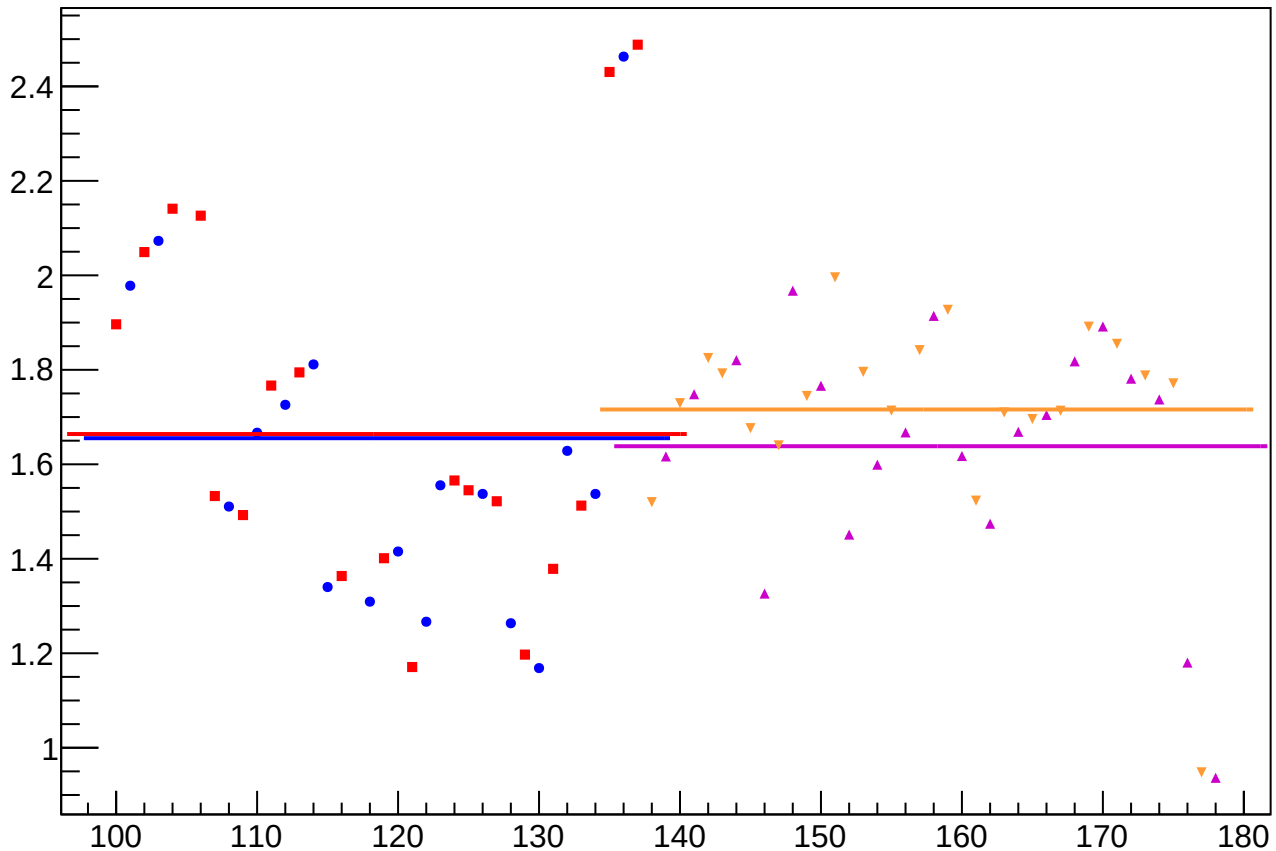
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 851003.4/36

Out: 0.008+/-0.000 χ^2/NDF : 694801.9/39

All: 0.008+/-0.000 χ^2/NDF : 1545822.4/76

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655 $\pm$ 0.000 χ^2/NDF : 6476474909.3/16

Left Out: 1.716 $\pm$ 0.000 χ^2/NDF : 6547833419.8/20

Right Out: 1.664 $\pm$ 0.000 χ^2/NDF : 5944262279.7/18

Left In: 1.638 $\pm$ 0.000 χ^2/NDF : 8299772237.2/19

Left: 1.678 $\pm$ 0.000 χ^2/NDF : 15256116802.5/40

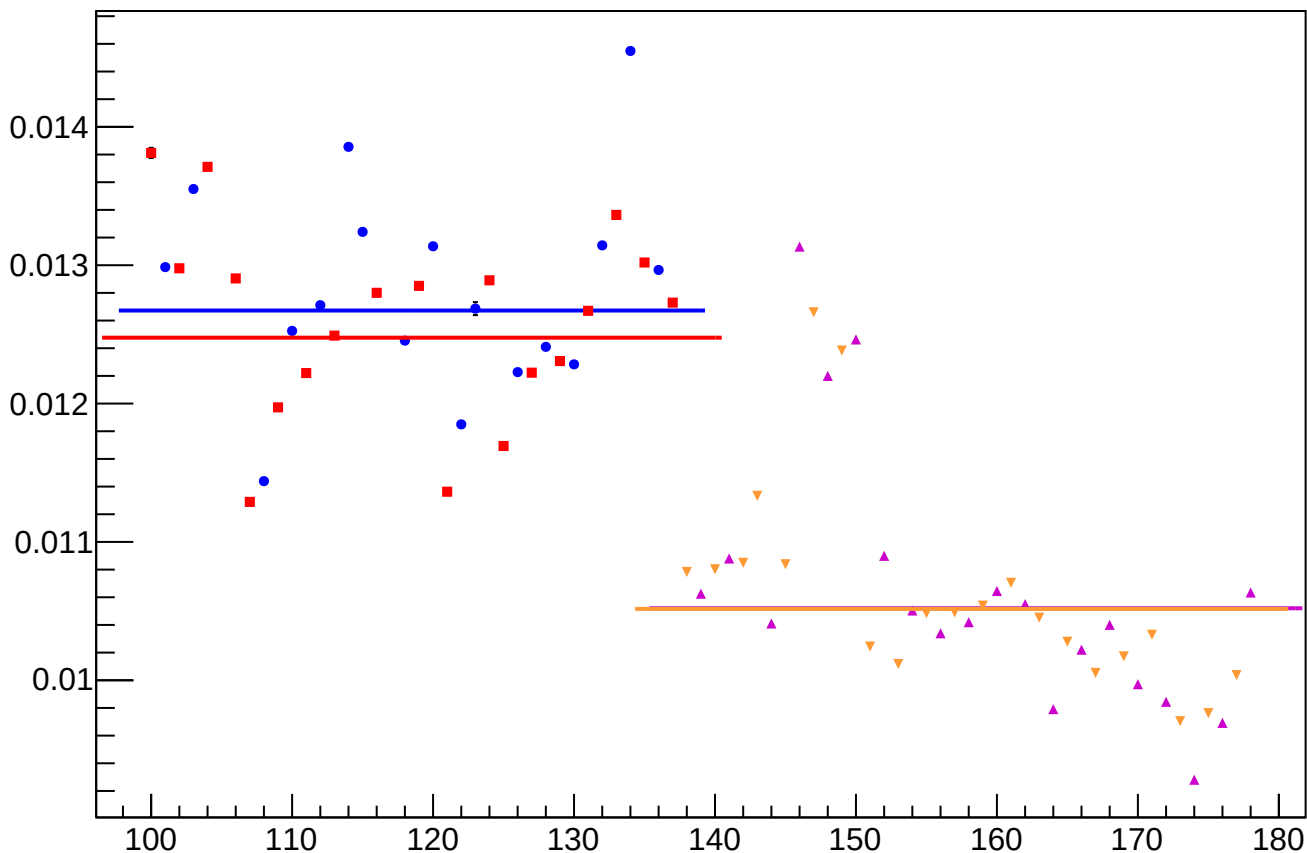
Right: 1.660 $\pm$ 0.000 χ^2/NDF : 12422392259.9/35

In: 1.642 $\pm$ 0.000 χ^2/NDF : 14785258138.1/36

Out: 1.703 $\pm$ 0.000 χ^2/NDF : 12582470631.7/39

All: 1.673 $\pm$ 0.000 χ^2/NDF : 27699207050.4/71

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :119460.0/20

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF :181851.1/19

Left: 0.011+/-0.000 χ^2/NDF : 301314.0/40

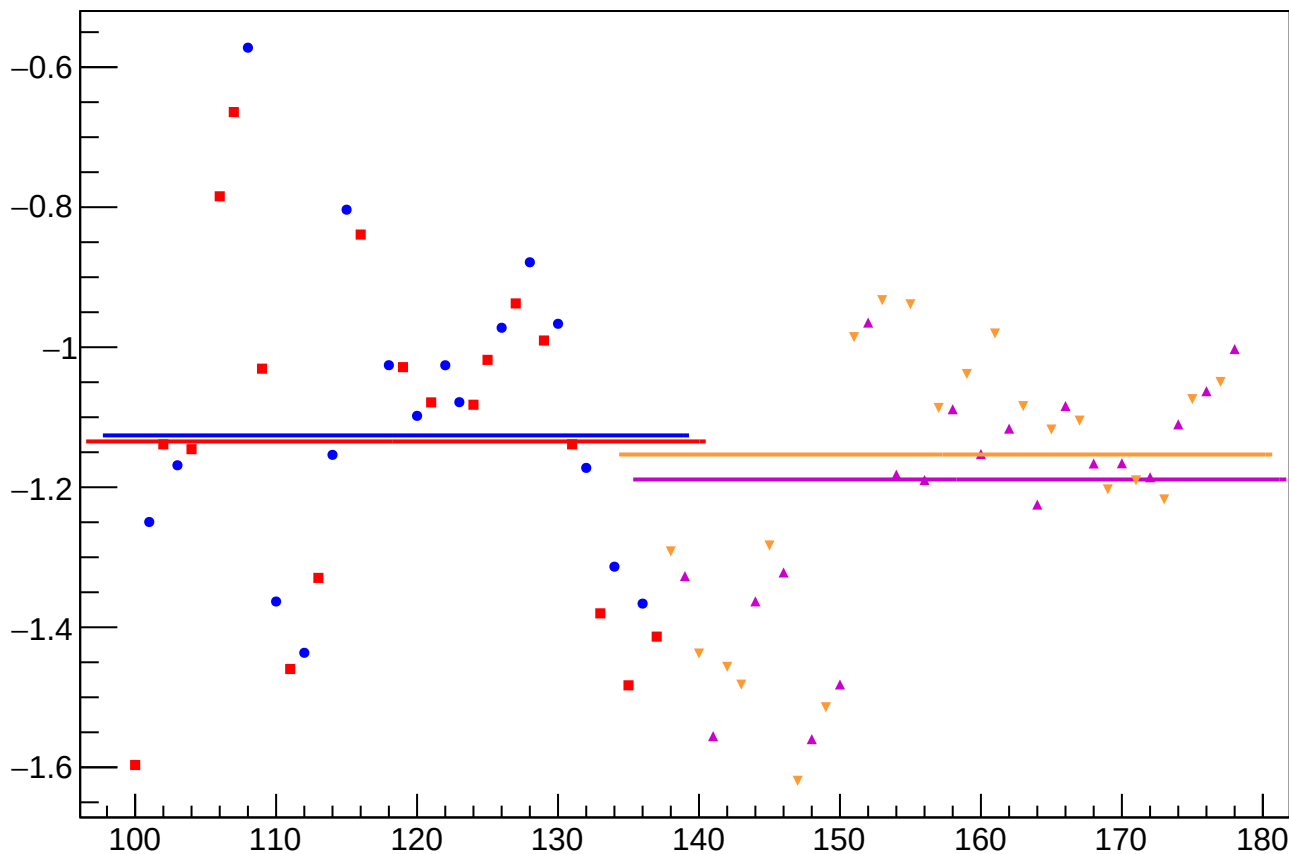
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :503153.2/36

Out: 0.011+/-0.000 χ^2/NDF :415636.3/39

All: 0.011+/-0.000 χ^2/NDF : 918964.4/76

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.153+/-0.000 χ^2/NDF : 7471714695.9/20

Right Out: -1.135+/-0.000 χ^2/NDF : 3677461023.4/18

Left In: -1.189+/-0.000 χ^2/NDF : 5481307663.5/19

Left: -1.171+/-0.000 χ^2/NDF : 13104040830.6/40

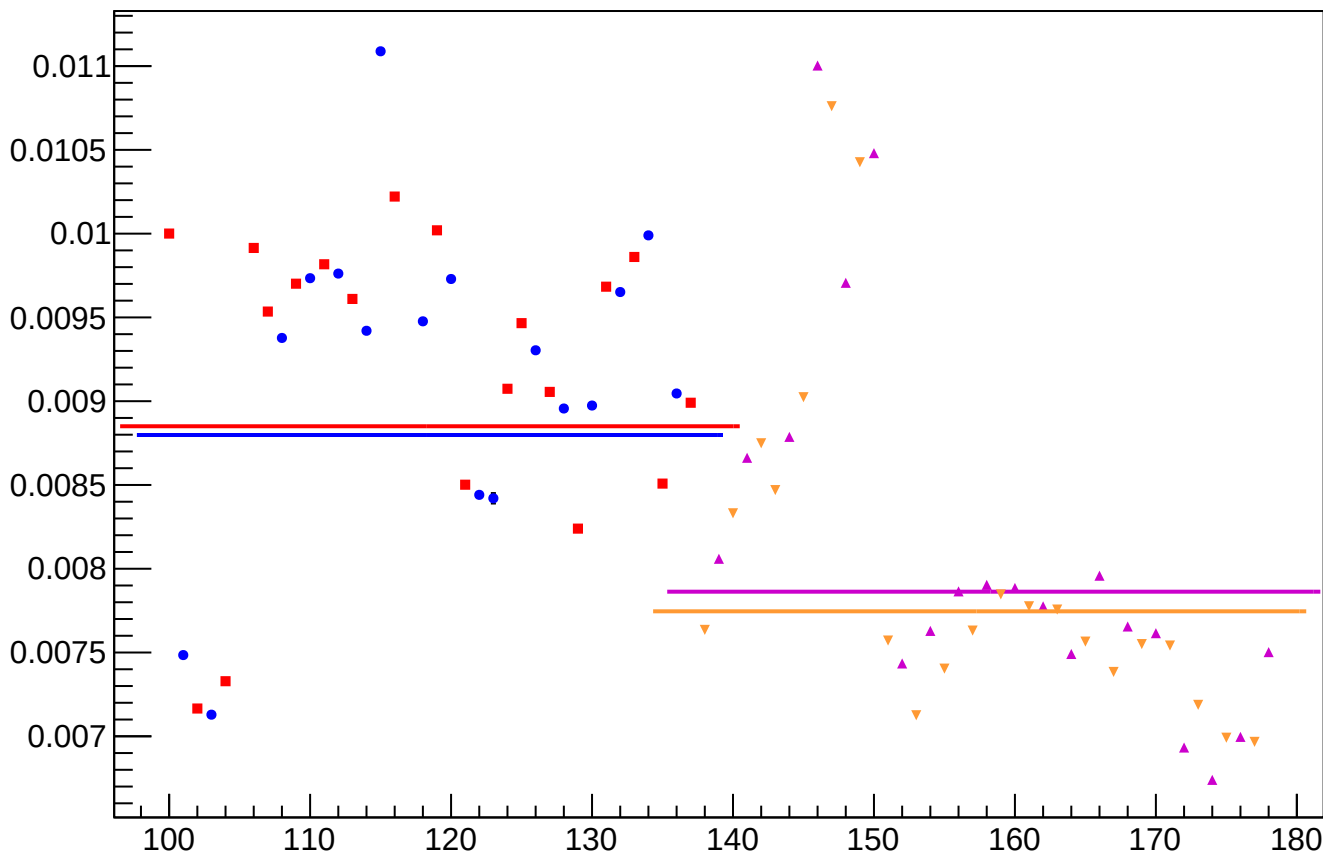
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.172+/-0.000 χ^2/NDF : 9297103156.1/36

Out: -1.148+/-0.000 χ^2/NDF : 11171120309.8/39

All: -1.160+/-0.000 χ^2/NDF : 20560603398.0/79

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008+/-0.000 χ^2/NDF : 309140.1/20

Right Out: 0.009+/-0.000 χ^2/NDF : 173958.0/18

Left In: 0.008+/-0.000 χ^2/NDF : 376928.1/19

Left: 0.008+/-0.000 χ^2/NDF : 689329.2/40

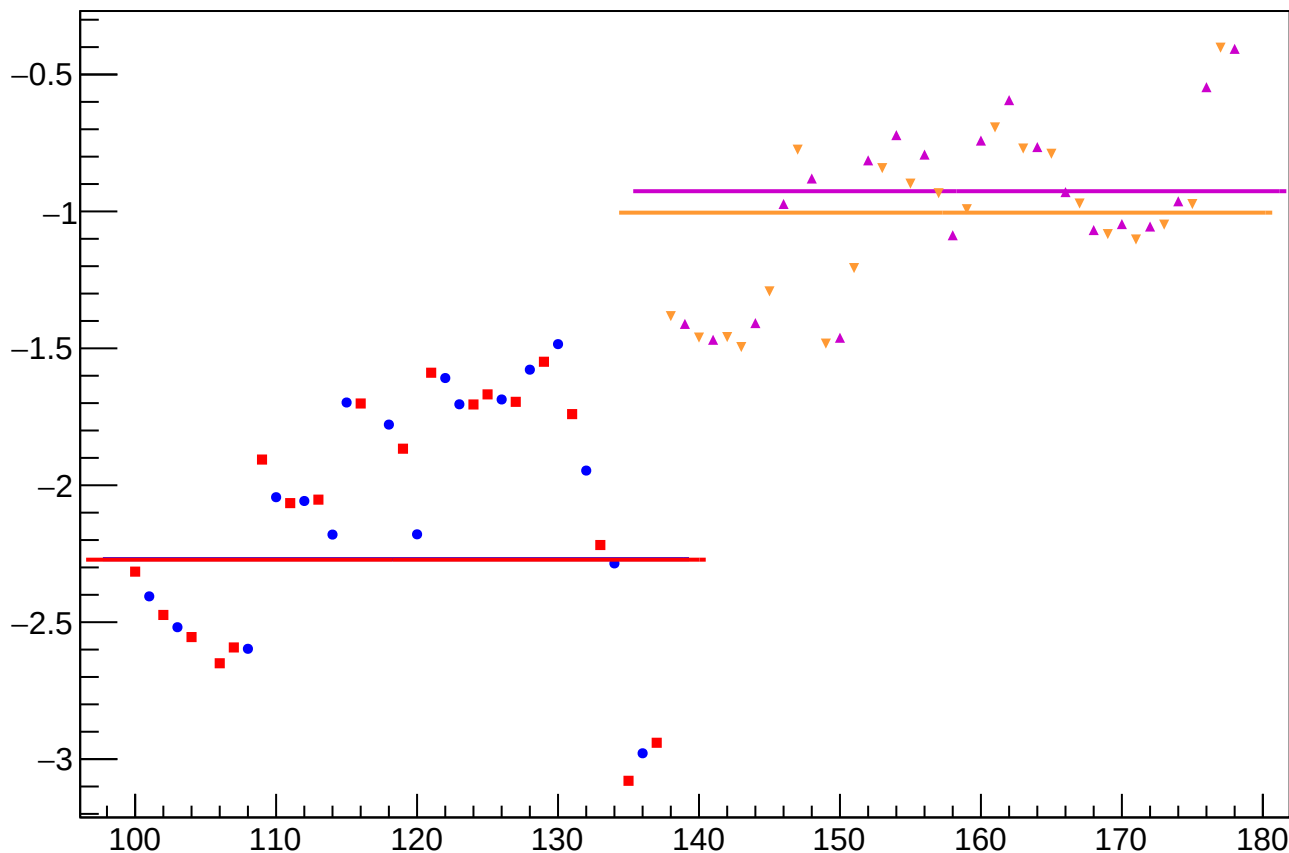
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF : 634876.5/36

Out: 0.008+/-0.000 χ^2/NDF : 636078.8/39

All: 0.008+/-0.000 χ^2/NDF : 1272875.0/76

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.004+/-0.000 χ^2/NDF : 27509514312.7/20

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.926+/-0.000 χ^2/NDF : 30389199677.9/19

Left: -0.965+/-0.000 χ^2/NDF : 59050328926.9/40

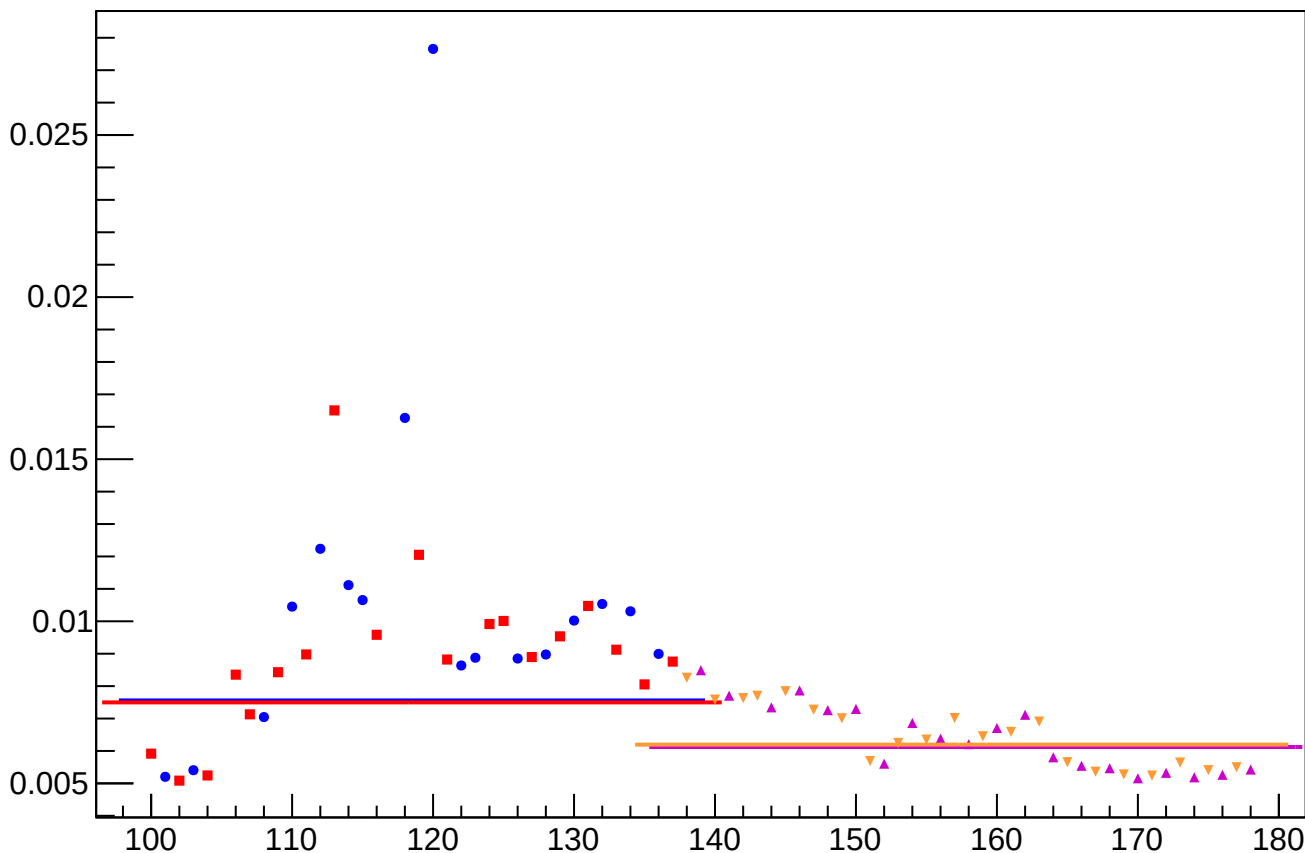
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.180+/-0.000 χ^2/NDF : 176734334563.6/36

Out: -1.271+/-0.000 χ^2/NDF : 172755602618.1/39

All: -1.226+/-0.000 χ^2/NDF : 351430930418.1

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 : 587035.5/20

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 666173.8/19

Left: 0.006+/-0.000 χ^2/NDF : 1255198.3/40

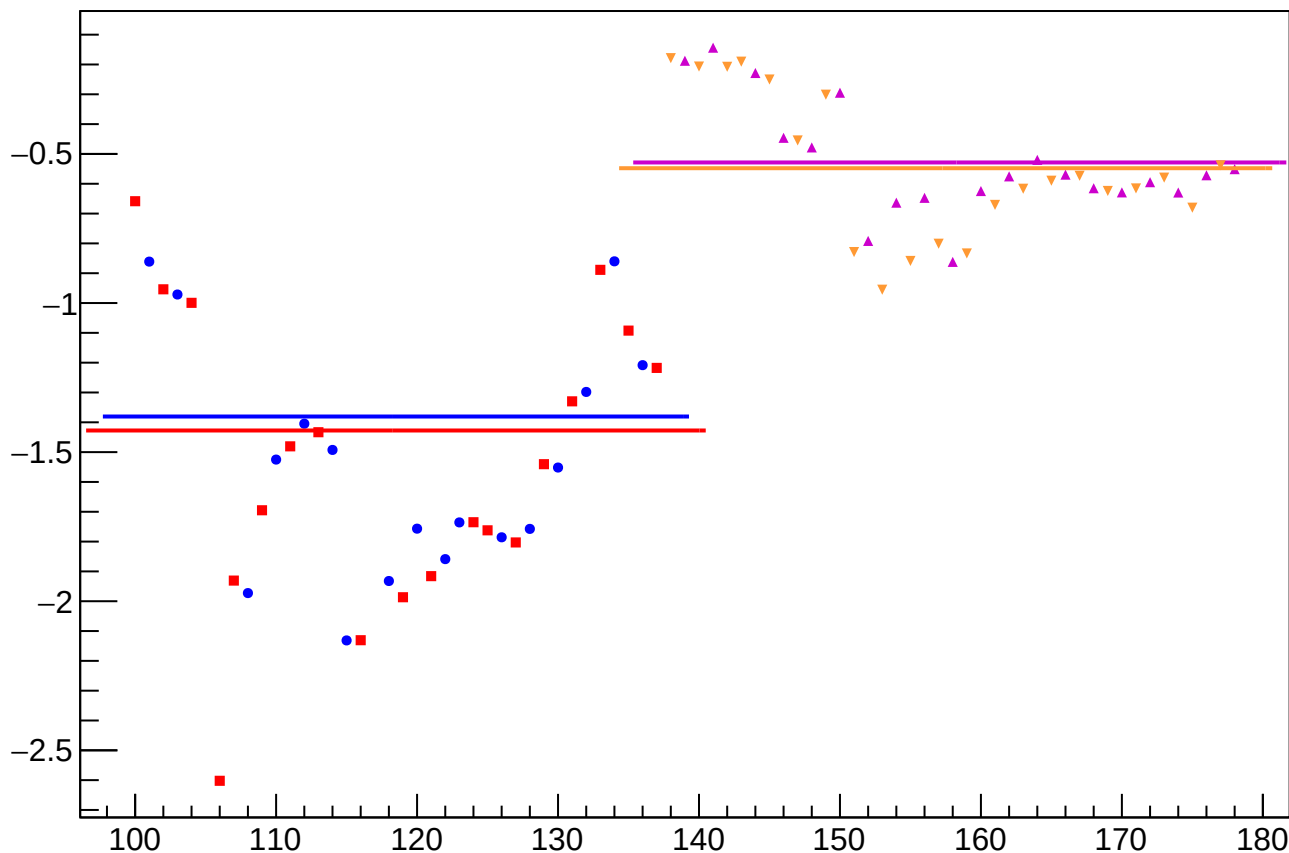
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.006+/-0.000 χ^2/NDF : 2181607.1/36

Out: 0.006+/-0.000 χ^2/NDF : 1788044.2/39

All: 0.006+/-0.000 χ^2/NDF : 3972331.4/76

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.538+/-0.000

χ^2/NDF : 76836909951.9/40

Left Out: -0.548+/-0.000

χ^2/NDF : 46180383075.1/20

Right: -1.406+/-0.000

χ^2/NDF : 49770978716.8/35

Right Out: -1.427+/-0.000

χ^2/NDF : 29616178528.0/18

In: -0.643+/-0.000

χ^2/NDF : 132056143131.0/36

Out: -0.680+/-0.000

χ^2/NDF : 175616561902.5/39

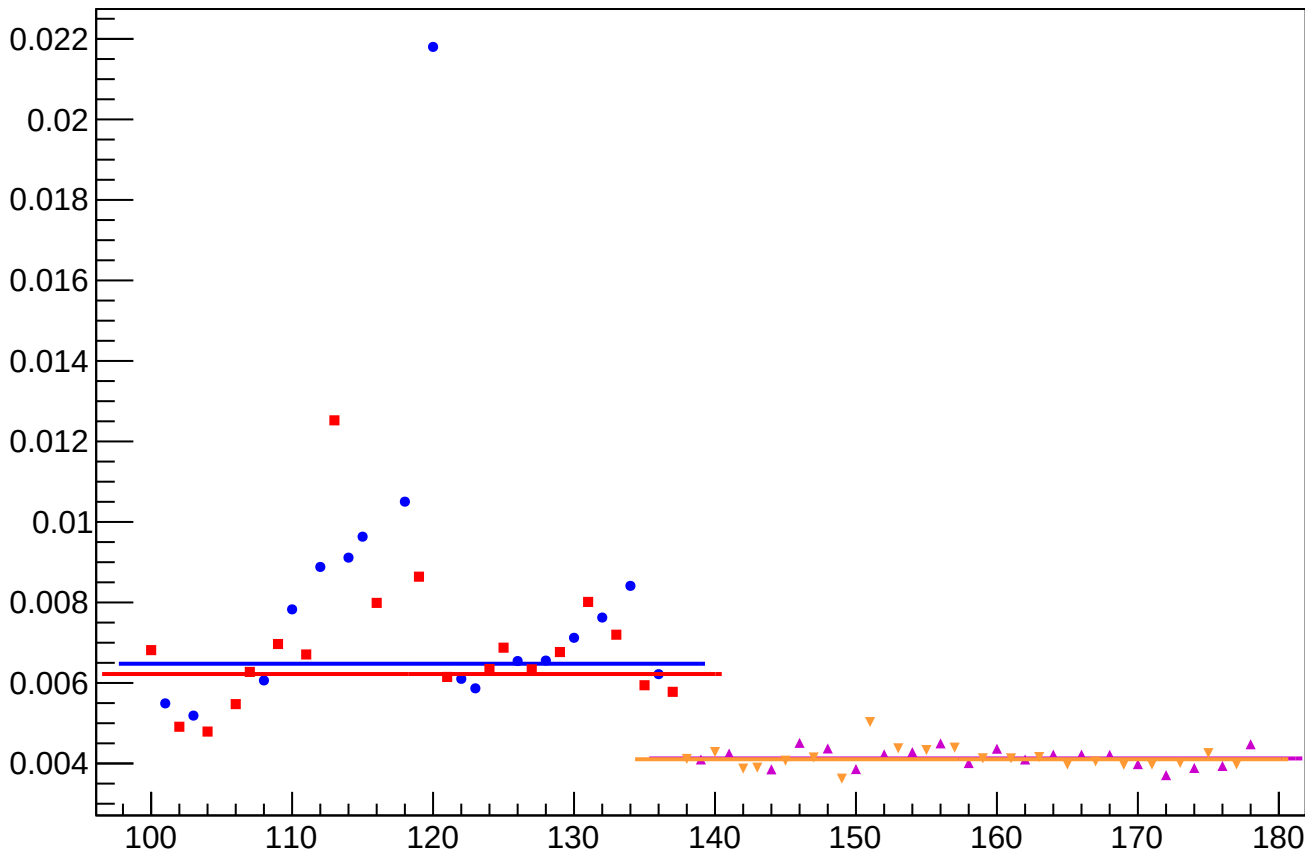
Left In: -0.529+/-0.000

χ^2/NDF : 30499290452.7/19

All: -0.662+/-0.000

χ^2/NDF : 308352405982.1

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :98604.8/20

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF :87294.1/19

Left: 0.004+/-0.000 χ^2/NDF : 186229.1/40

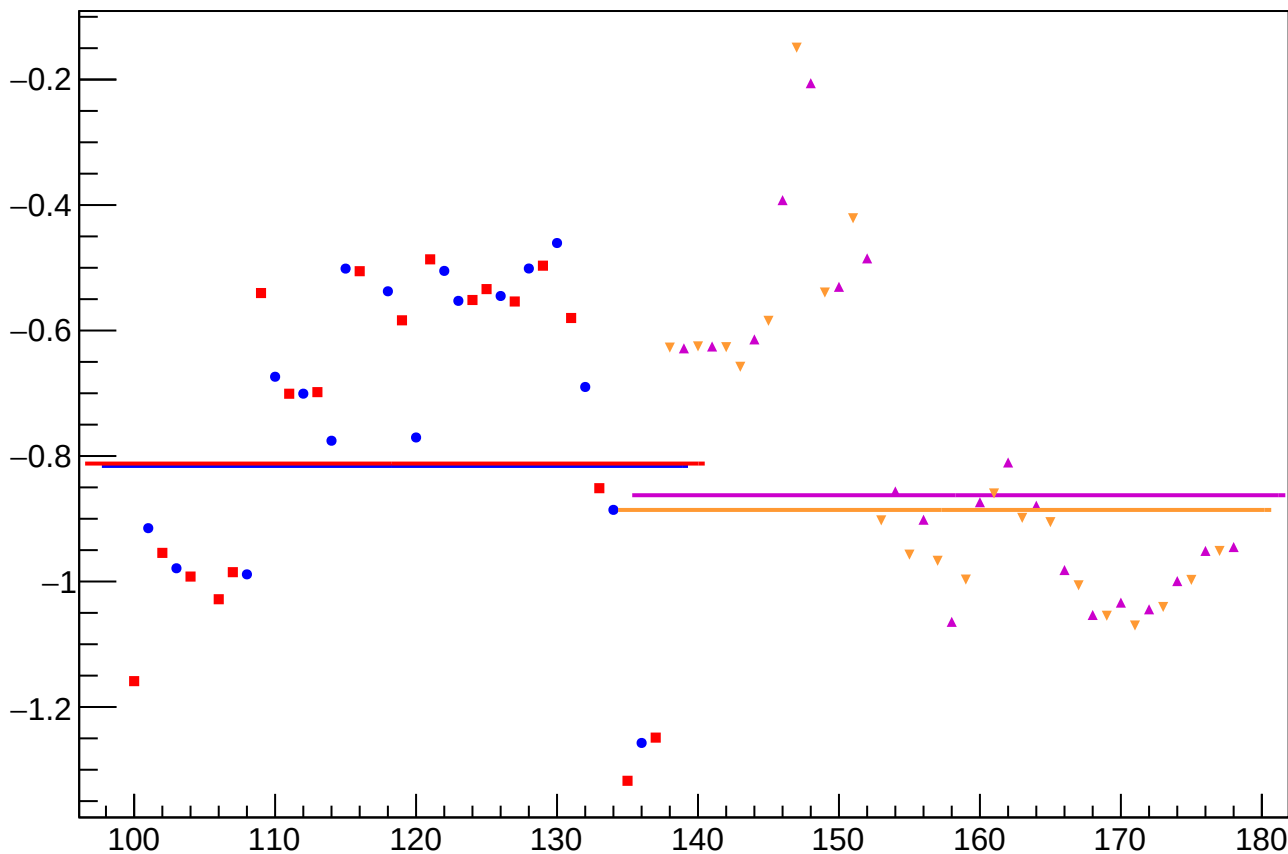
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.004+/-0.000 χ^2/NDF :1903899.5/36

Out: 0.004+/-0.000 χ^2/NDF :1678504.4/39

All: 0.004+/-0.000 χ^2/NDF : 3582705.6/76

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816+/-0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.886+/-0.000 χ^2/NDF : 40104611133.1/20

Right Out: -0.812+/-0.000 χ^2/NDF : 16815852448.9/18

Left In: -0.862+/-0.000 χ^2/NDF : 43624603464.1/19

Left: -0.874+/-0.000 χ^2/NDF : 83994457777.4/40

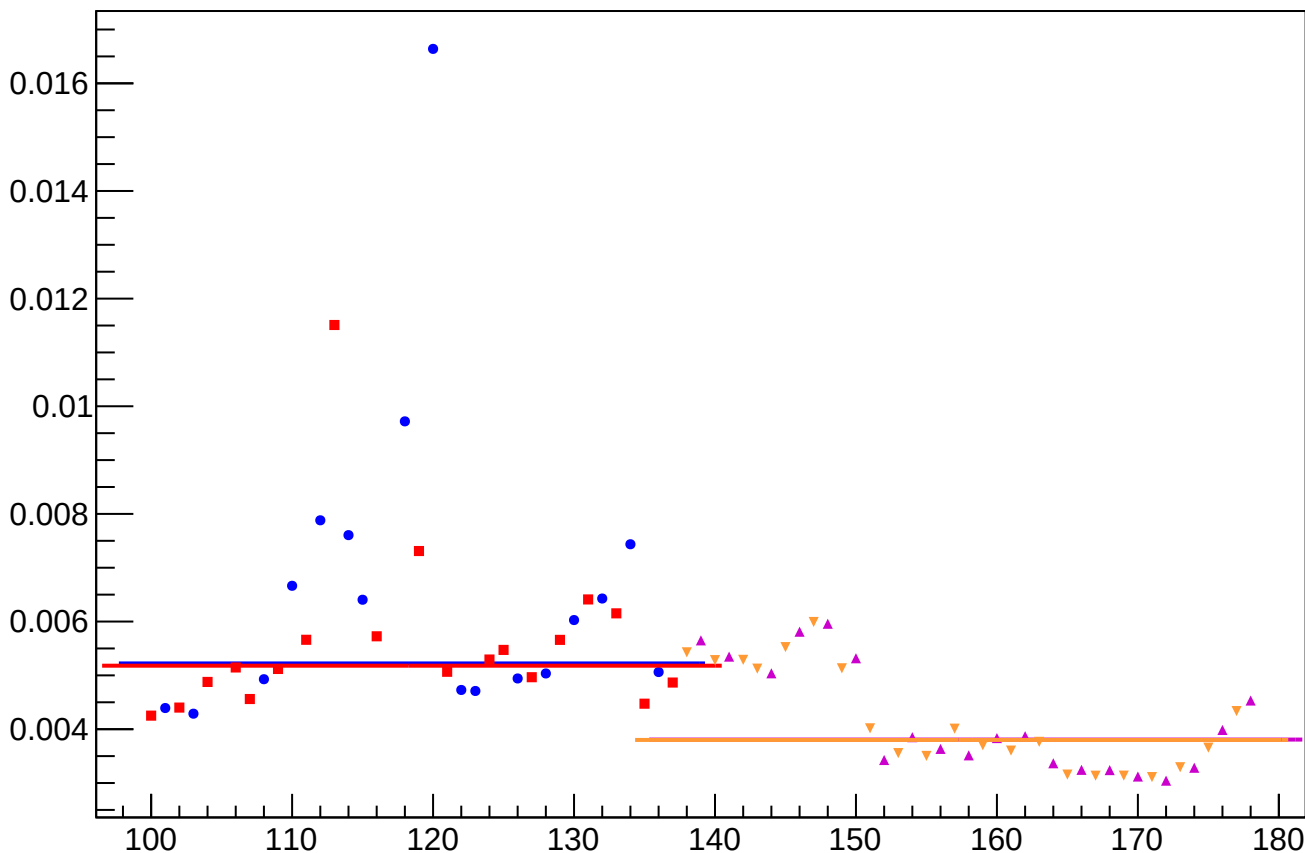
Right: -0.814+/-0.000 χ^2/NDF : 30990213454.0/35

In: -0.855+/-0.000 χ^2/NDF : 58152378603.9/36

Out: -0.872+/-0.000 χ^2/NDF : 57905254920.5/39

All: -0.864+/-0.000 χ^2/NDF : 116240931929.8

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF :1148652.9/20

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF :1227909.2/19

Left: 0.004+/-0.000 χ^2/NDF : 2376606.5/40

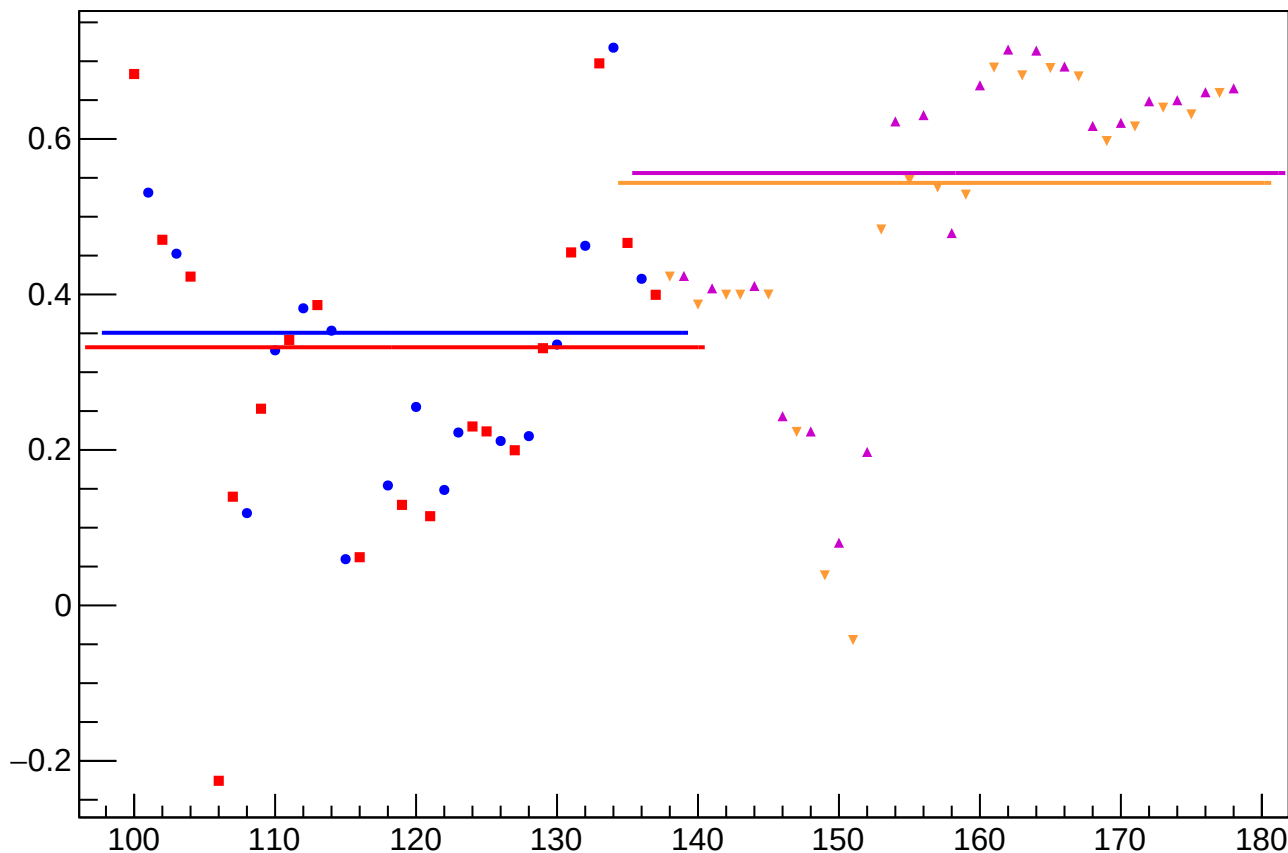
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2543492.6/36

Out: 0.004+/-0.000 χ^2/NDF :2198717.4/39

All: 0.004+/-0.000 χ^2/NDF : 4742299.6/76

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.550+/-0.000

χ^2/NDF : 81736535303.4/40

Left Out: 0.544+/-0.000

χ^2/NDF : 41729251773.5/20

Right: 0.341+/-0.000

χ^2/NDF : 19270918435.8/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11796213425.9/18

In: 0.515+/-0.000

χ^2/NDF : 59005443890.7/36

Out: 0.497+/-0.000

χ^2/NDF : 67235648991.3/39

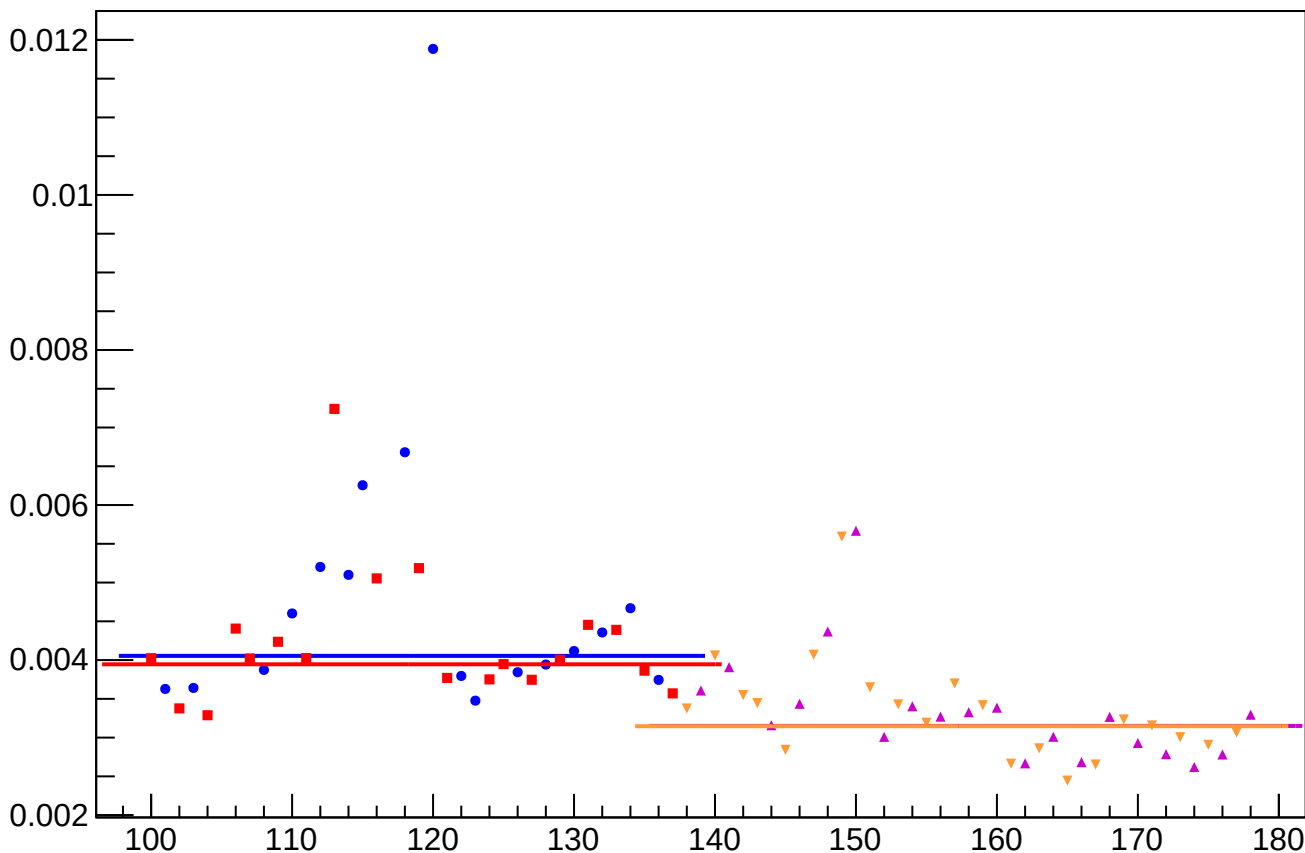
Left In: 0.556+/-0.000

χ^2/NDF : 39895645215.7/19

All: 0.506+/-0.000

χ^2/NDF : 126522444191.6

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.003+/-0.000 χ^2/NDF : 726446.8/20

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 711679.9/19

Left: 0.003+/-0.000 χ^2/NDF : 1438148.0/40

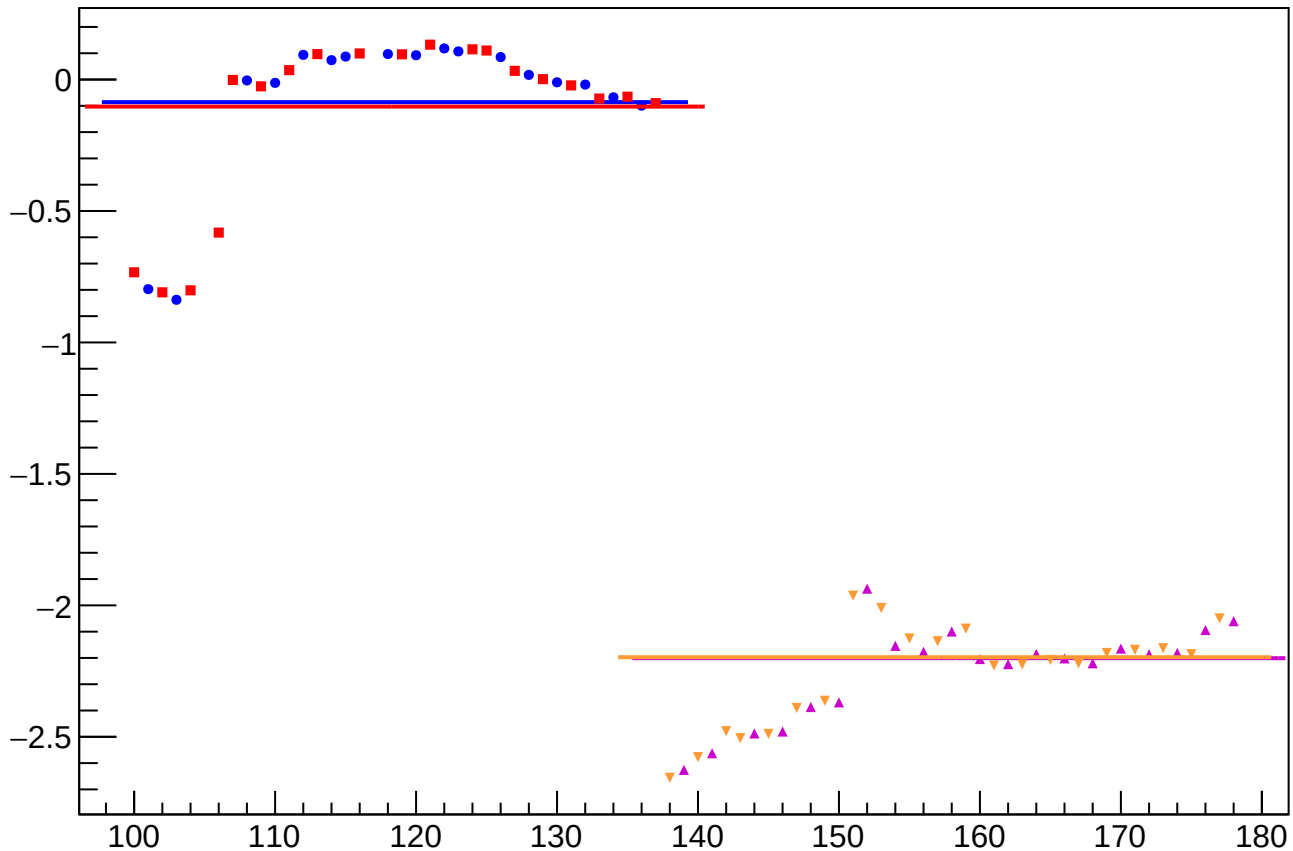
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1619375.6/36

Out: 0.003+/-0.000 χ^2/NDF : 1378903.6/39

All: 0.003+/-0.000 χ^2/NDF : 2998446.4/76

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.197+/-0.000 χ^2/NDF : 3703122505.8/20

Right Out: -0.103+/-0.000 χ^2/NDF : 5553039516.7/18

Left In: -2.201+/-0.000 χ^2/NDF : 3092518643.0/19

Left: -2.199+/-0.000 χ^2/NDF : 6796594566.2/40

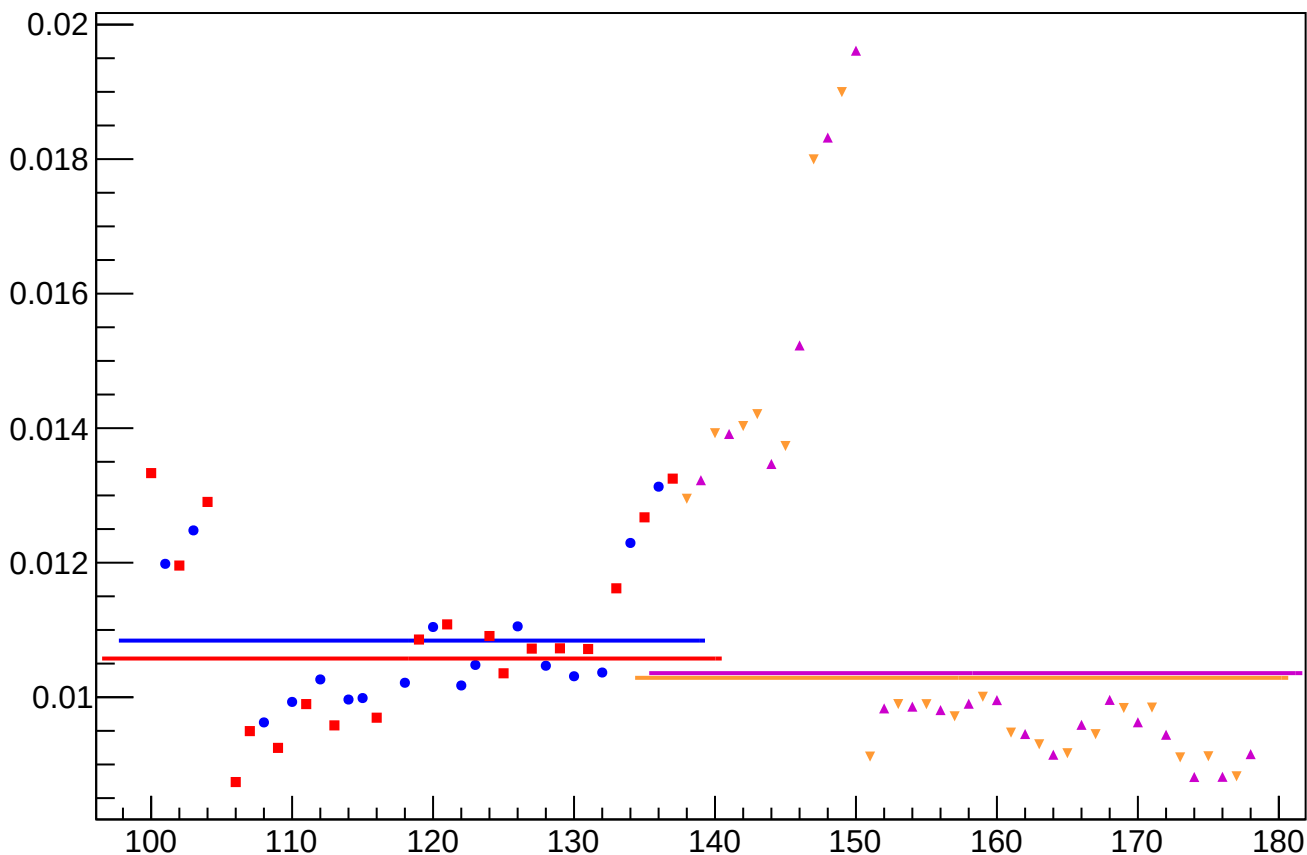
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.583+/-0.000 χ^2/NDF : 186886520668.5/36

Out: -1.557+/-0.000 χ^2/NDF : 200197129924.8/39

All: -1.570+/-0.000 χ^2/NDF : 387153085520.2

yield_bpm1i02X_rms vs Slug, Sign Corrected



Left: 0.010 ± 0.000 $\chi^2/\text{NDF}: 2564634.7/40$

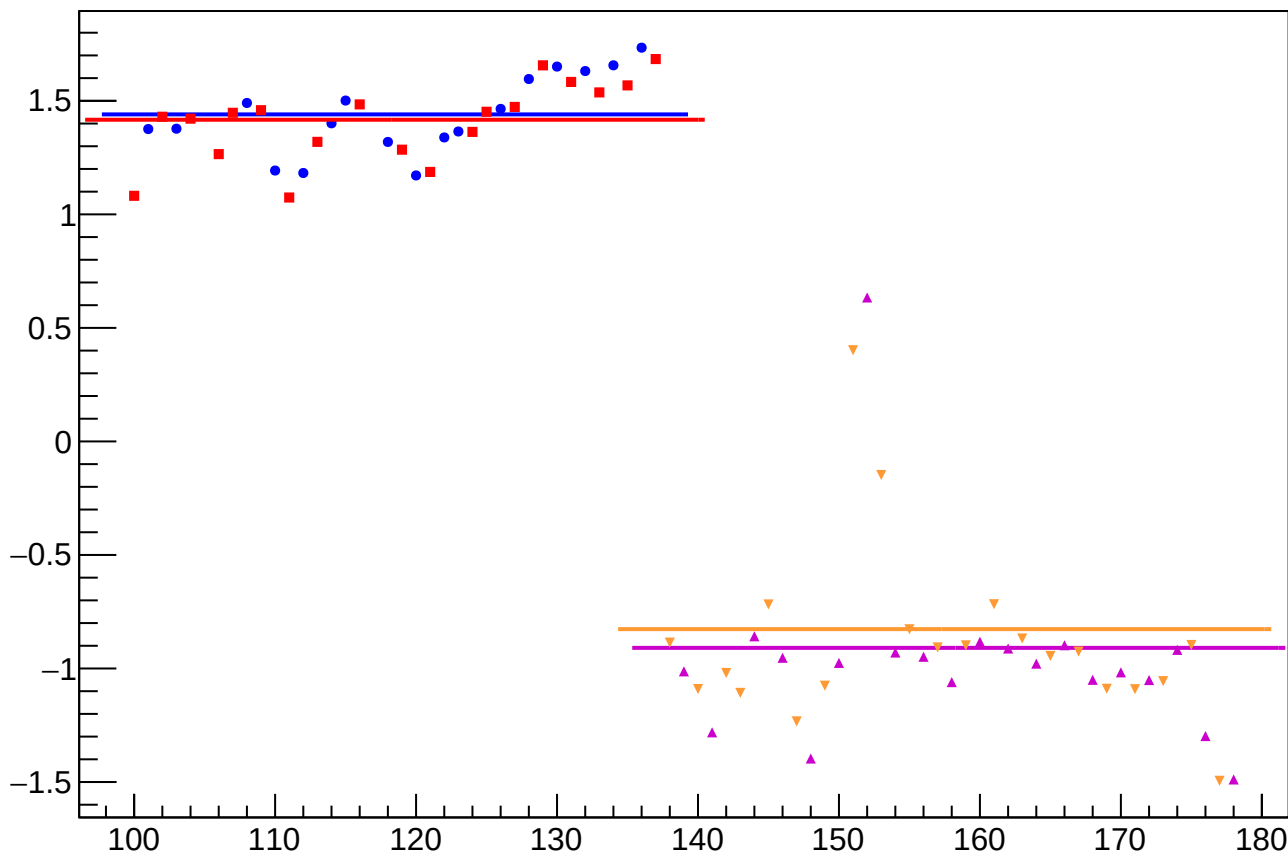
Right: 0.011 ± 0.000 $\chi^2/\text{NDF}: 307452.7/35$

In: 0.010 ± 0.000 $\chi^2/\text{NDF}: 1463186.5/36$

Out: 0.010 ± 0.000 $\chi^2/\text{NDF}: 1429880.8/39$

All: 0.010 ± 0.000 $\chi^2/\text{NDF}: 2896090.2/76$

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.827 $\pm$ 0.000 χ^2 /NDF: 40727999627.7/20

Right Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 2674064512.3/18

Left In: -0.909 $\pm$ 0.000 χ^2 /NDF: 47412305817.7/19

Left: -0.867 $\pm$ 0.000 χ^2 /NDF: 88880551281.5/40

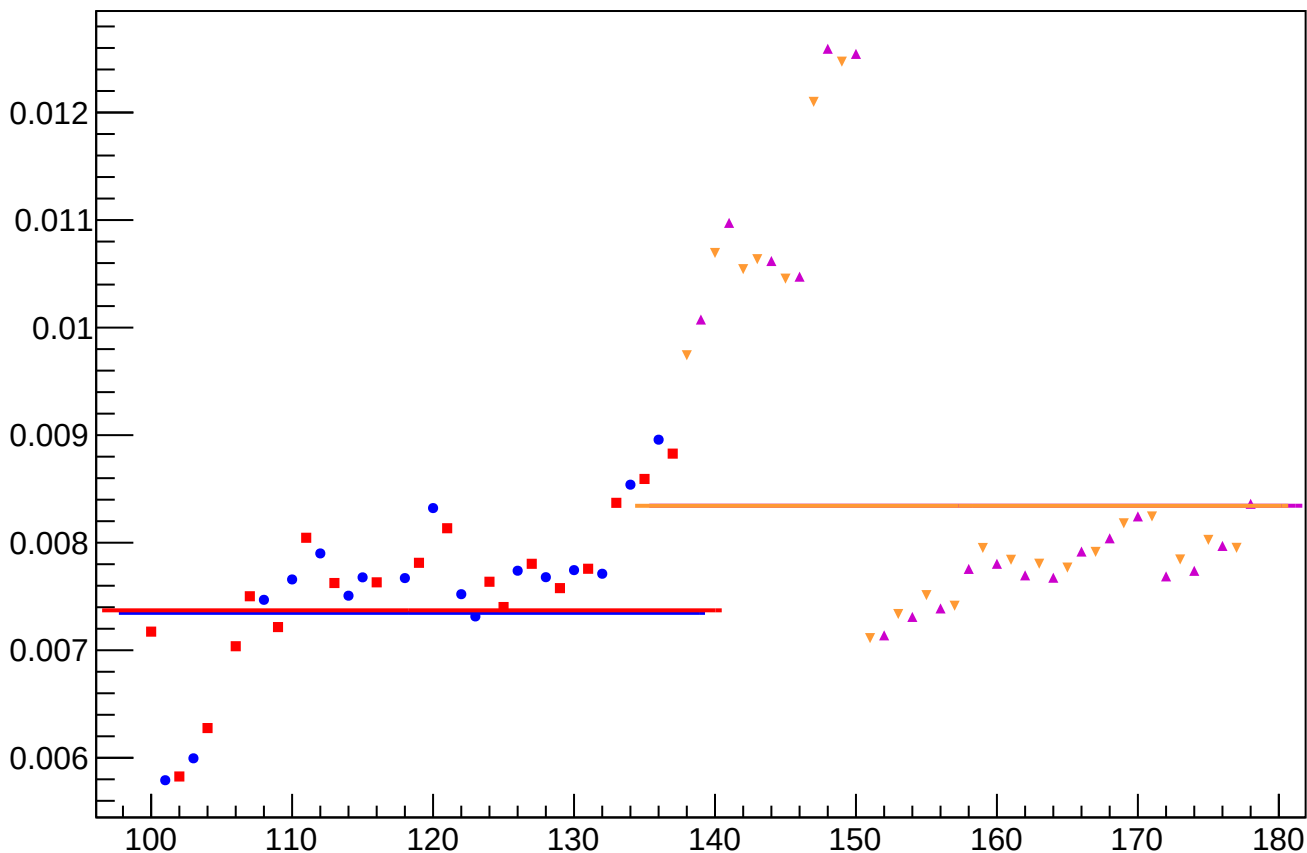
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: -0.058 $\pm$ 0.000 χ^2 /NDF: 480380276516.1/36

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 452970932839.9/39

All: -0.027 $\pm$ 0.000 χ^2 /NDF: 933983060433.3

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.008+/-0.000 χ^2/NDF : 756046.8/20

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 829966.4/19

Left: 0.008+/-0.000 χ^2/NDF : 1586013.3/40

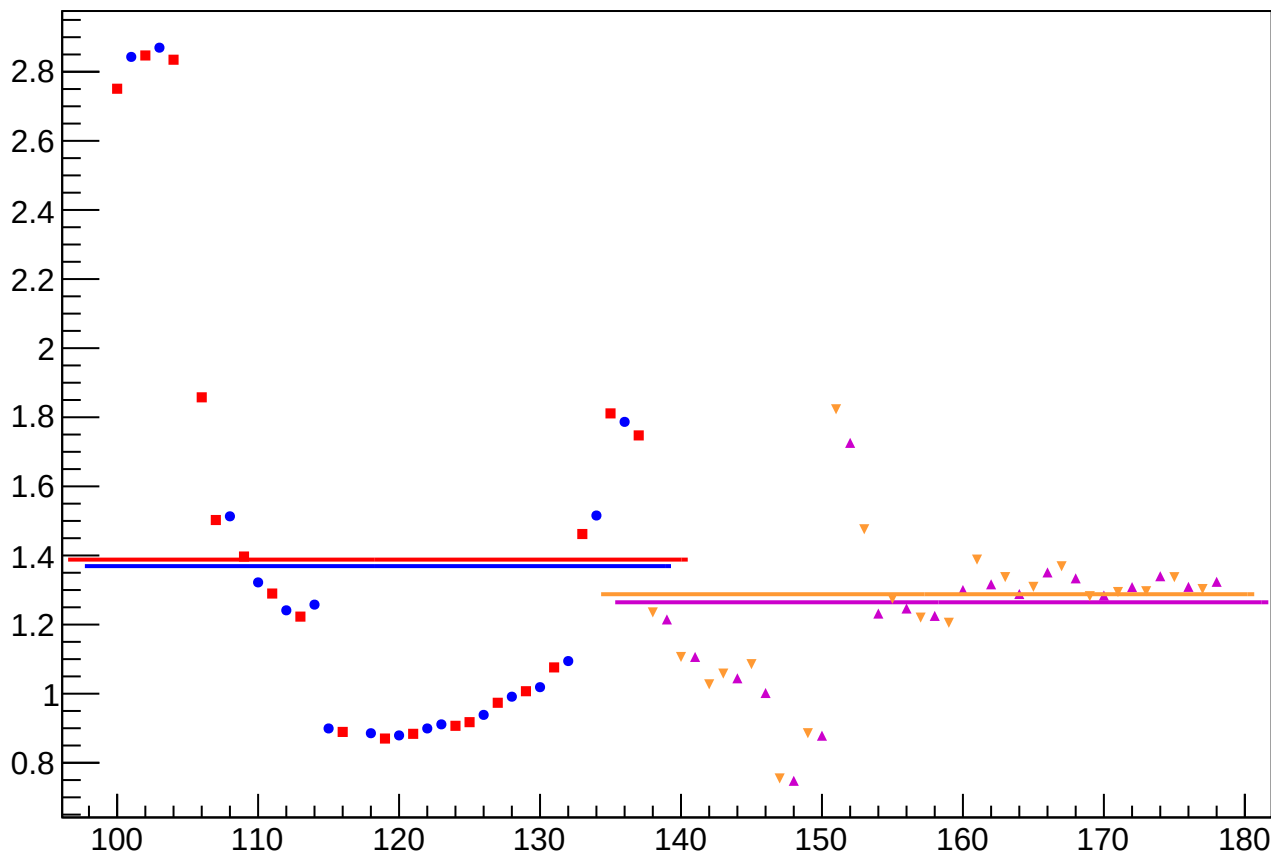
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1212503.1/36

Out: 0.008+/-0.000 χ^2/NDF : 1082497.7/39

All: 0.008+/-0.000 χ^2/NDF : 2295001.0/76

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.288+/-0.000 χ^2/NDF : 9157570955.0/20

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.265+/-0.000 χ^2/NDF : 7444352750.9/19

Left: 1.277+/-0.000 χ^2/NDF : 16663208390.4/40

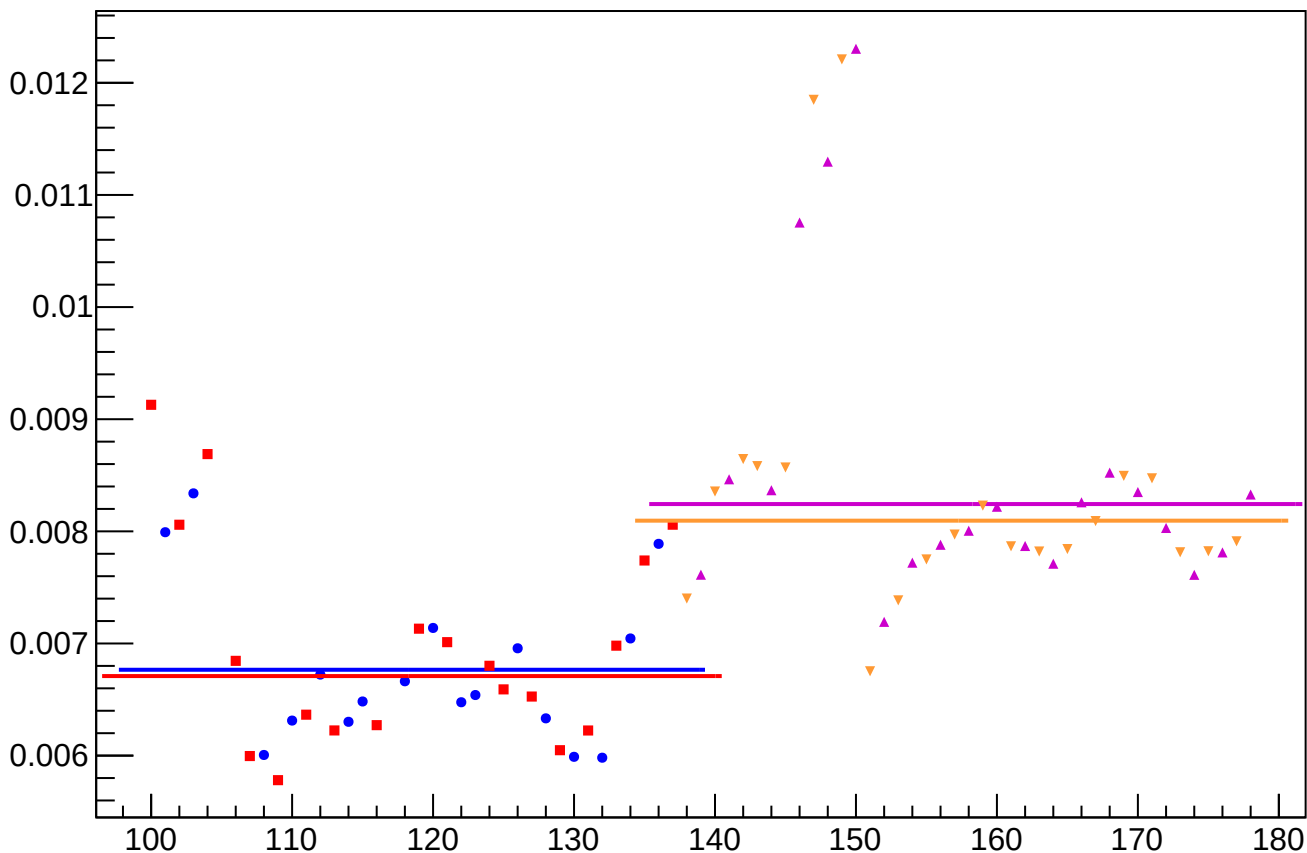
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.306+/-0.000 χ^2/NDF : 62603093031.7/36

Out: 1.328+/-0.000 χ^2/NDF : 59990432701.6/39

All: 1.318+/-0.000 χ^2/NDF : 122684365306.7

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 422439.1/20

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 447023.4/19

Left: 0.008+/-0.000 χ^2/NDF : 874395.2/40

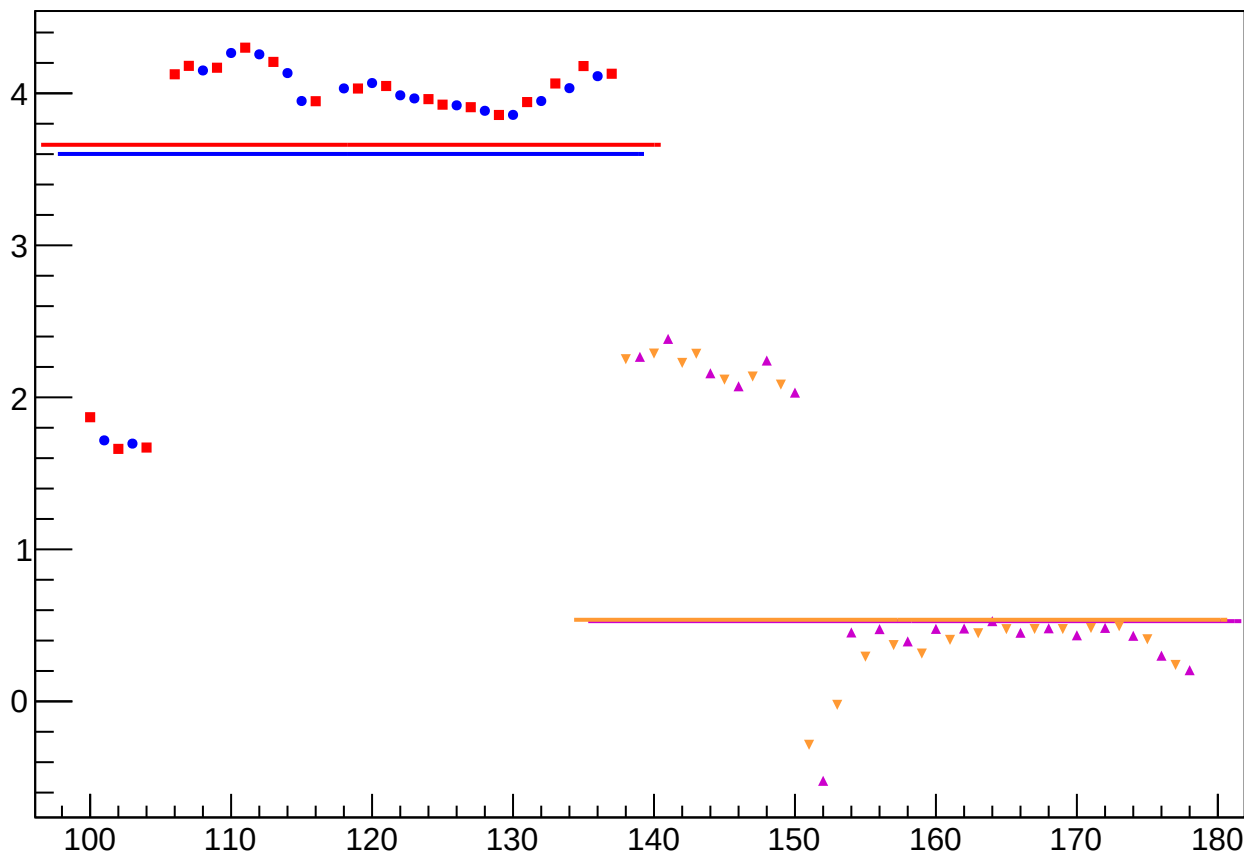
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 986680.2/36

Out: 0.008+/-0.000 χ^2/NDF : 967359.5/39

All: 0.008+/-0.000 χ^2/NDF : 1959255.3/76

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.537+/-0.000 χ^2/NDF : 263207760764.0/20

Right Out: 3.661+/-0.000 χ^2/NDF : 192519897222.5/18

Left In: 0.528+/-0.000 χ^2/NDF : 262049015877.1/19

Left: 0.532+/-0.000 χ^2/NDF : 525284361260.0/40

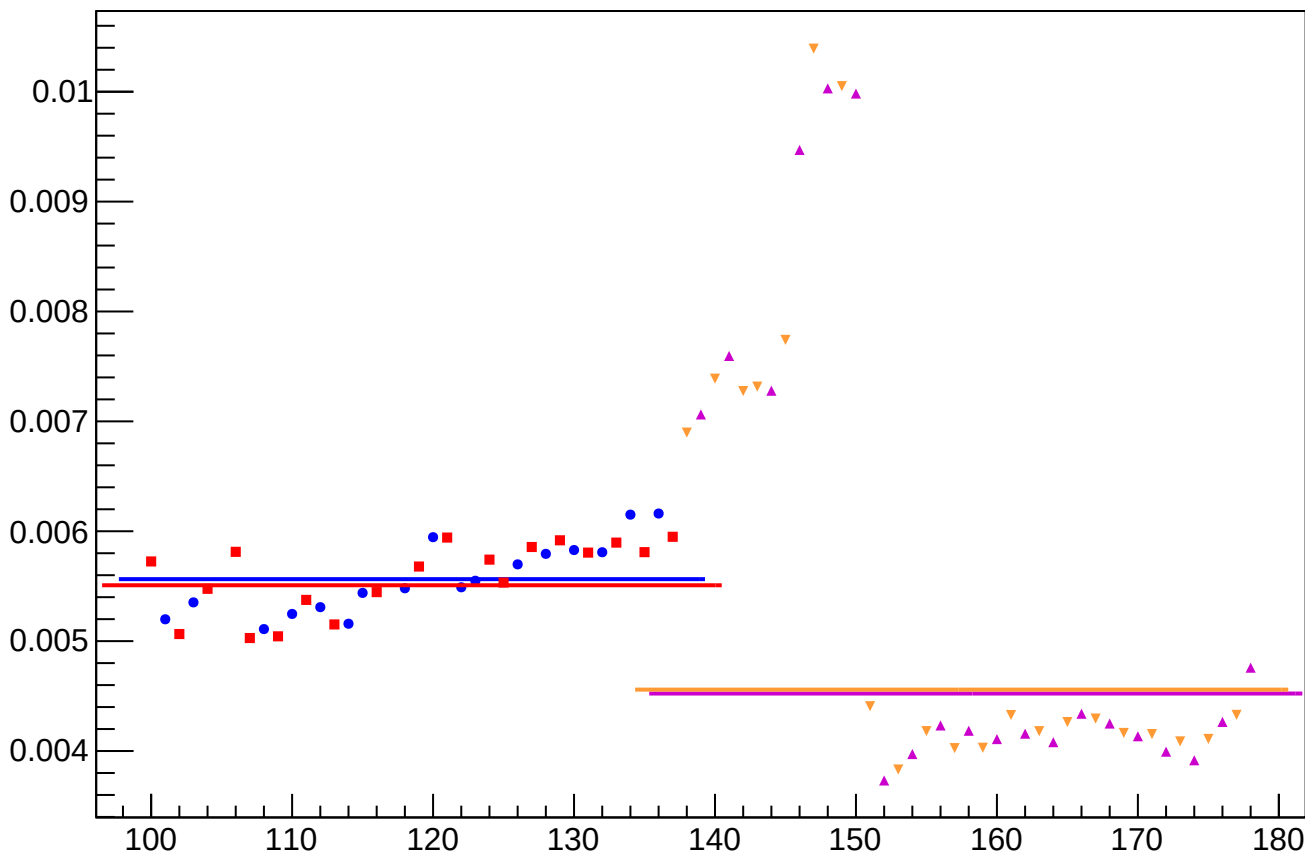
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.272+/-0.000 χ^2/NDF : 1993538501625.0/36

Out: 1.323+/-0.000 χ^2/NDF : 2130439716066.0/39

All: 1.298+/-0.000 χ^2/NDF : 4125171696258.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 47588.2/16

Left Out: 0.005+/-0.000 χ^2/NDF : 2021000.7/20

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 2225728.0/19

Left: 0.005+/-0.000 χ^2/NDF : 4247586.9/40

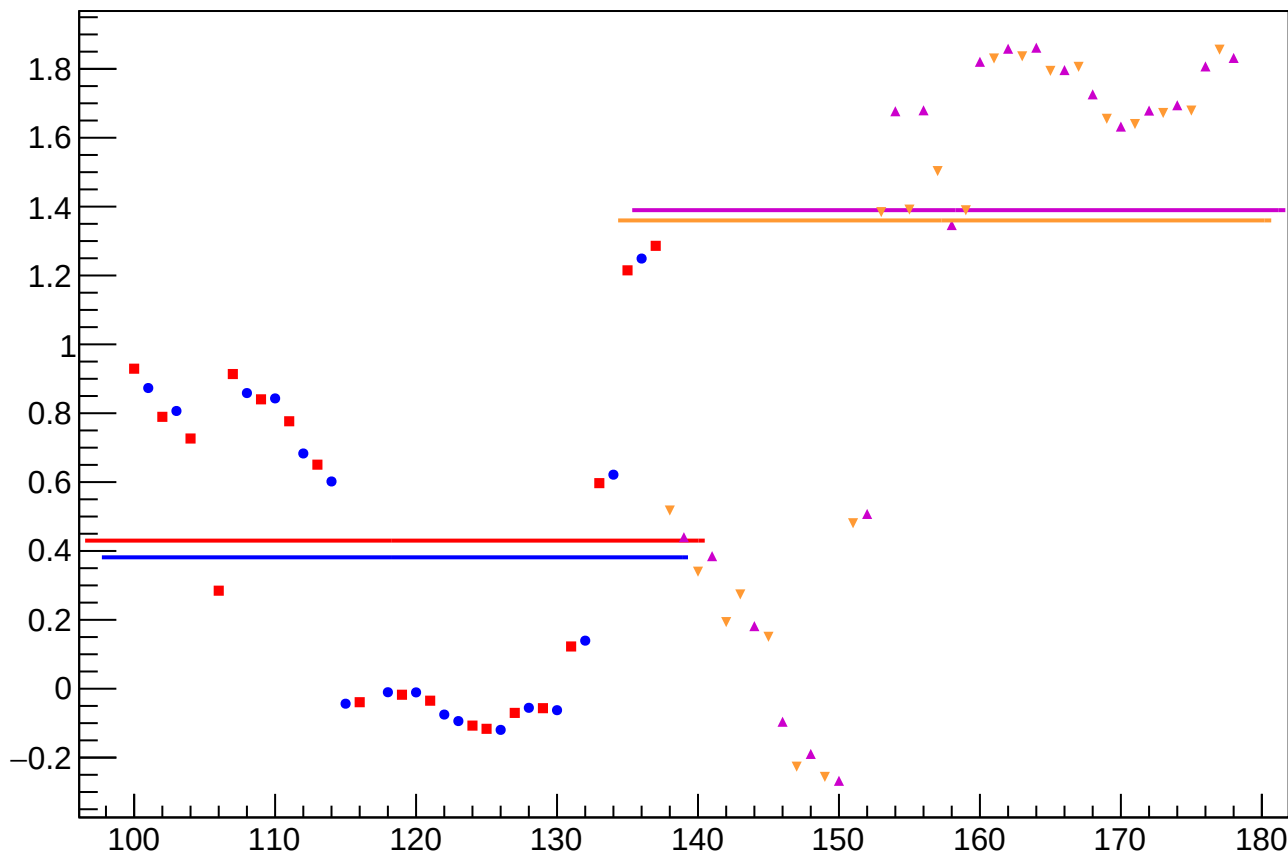
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF : 2627957.2/36

Out: 0.005+/-0.000 χ^2/NDF : 2383135.4/39

All: 0.005+/-0.000 χ^2/NDF : 5011553.9/76

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 1.360 $\pm$ 0.000 χ^2 /NDF: 44982615839.4/20

Right Out: 0.430 $\pm$ 0.000 χ^2 /NDF: 6676199135.9/18

Left In: 1.390 $\pm$ 0.000 χ^2 /NDF: 50557236849.5/19

Left: 1.375 $\pm$ 0.000 χ^2 /NDF: 95593898342.2/40

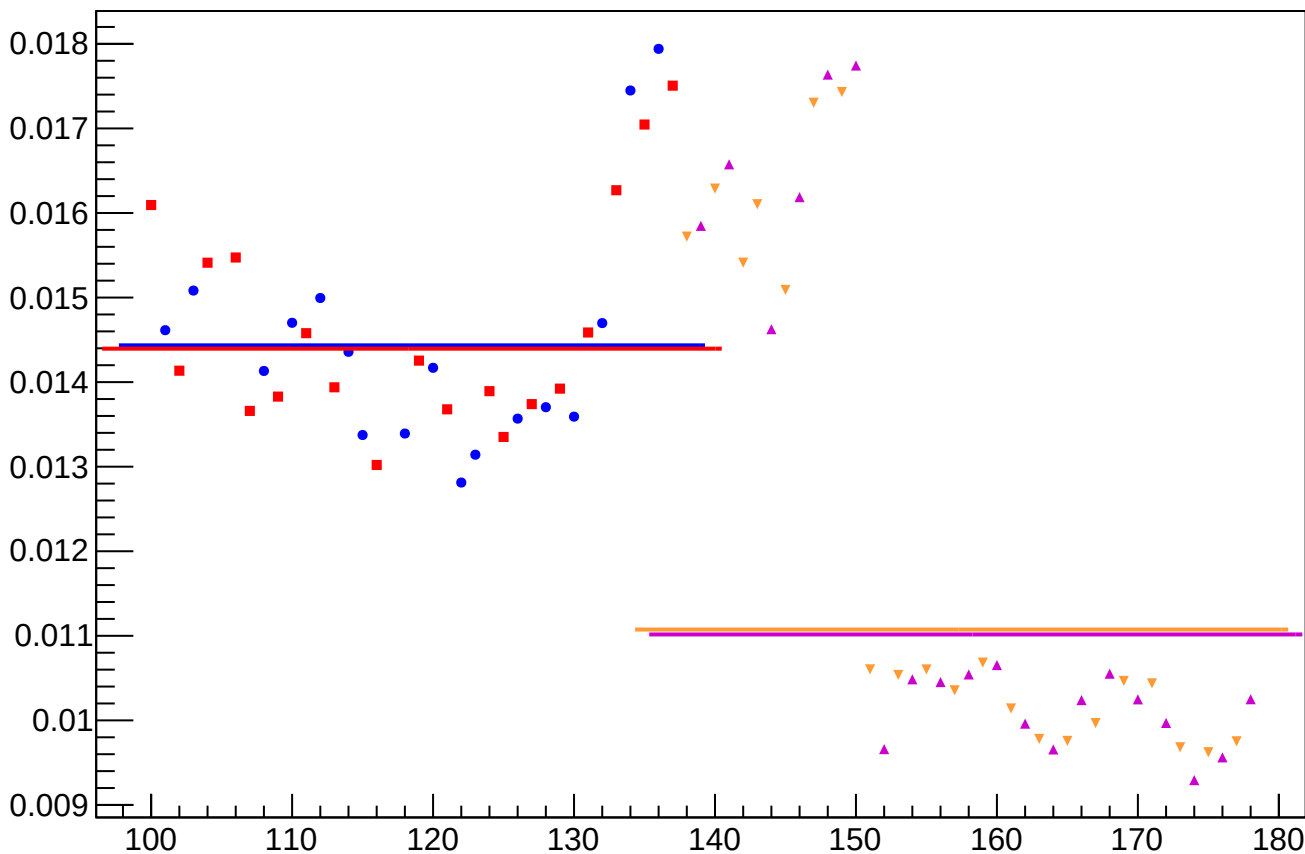
Right: 0.406 $\pm$ 0.000 χ^2 /NDF: 13839390791.2/35

In: 1.180 $\pm$ 0.000 χ^2 /NDF: 83260501891.2/36

Out: 1.160 $\pm$ 0.000 χ^2 /NDF: 74394260088.1/39

All: 1.170 $\pm$ 0.000 χ^2 /NDF: 157685187131.2

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.011+/-0.000 χ^2/NDF :1206326.0/20

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.011+/-0.000 χ^2/NDF :1261658.0/19

Left: 0.011+/-0.000 χ^2/NDF : 2468395.7/40

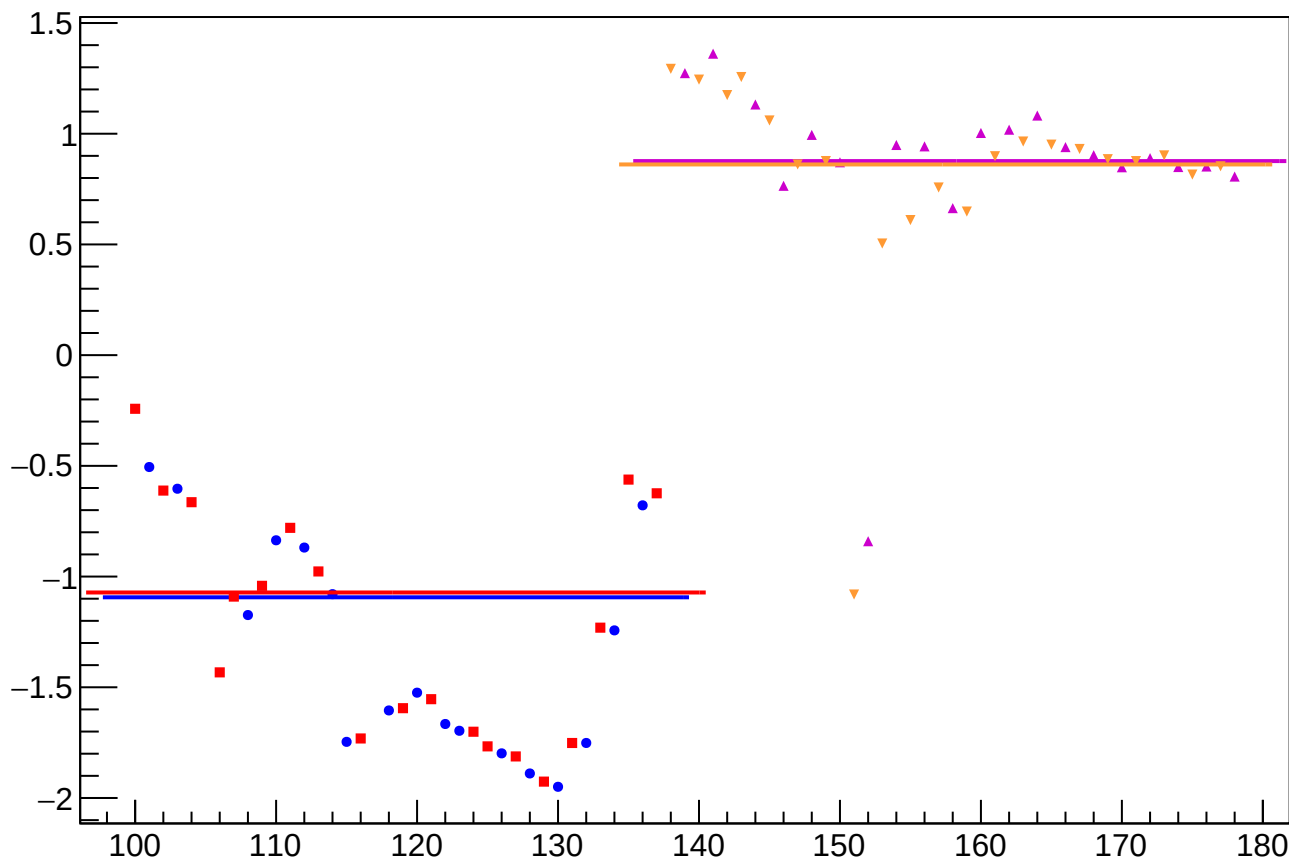
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1960172.0/36

Out: 0.012+/-0.000 χ^2/NDF :1861022.8/39

All: 0.012+/-0.000 χ^2/NDF : 3821761.5/76

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.861+/-0.000 χ^2/NDF : 125042078716.8/20

Right Out: -1.072+/-0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.876+/-0.000 χ^2/NDF : 146241932256.5/19

Left: 0.869+/-0.000 χ^2/NDF : 271407010165.2/40

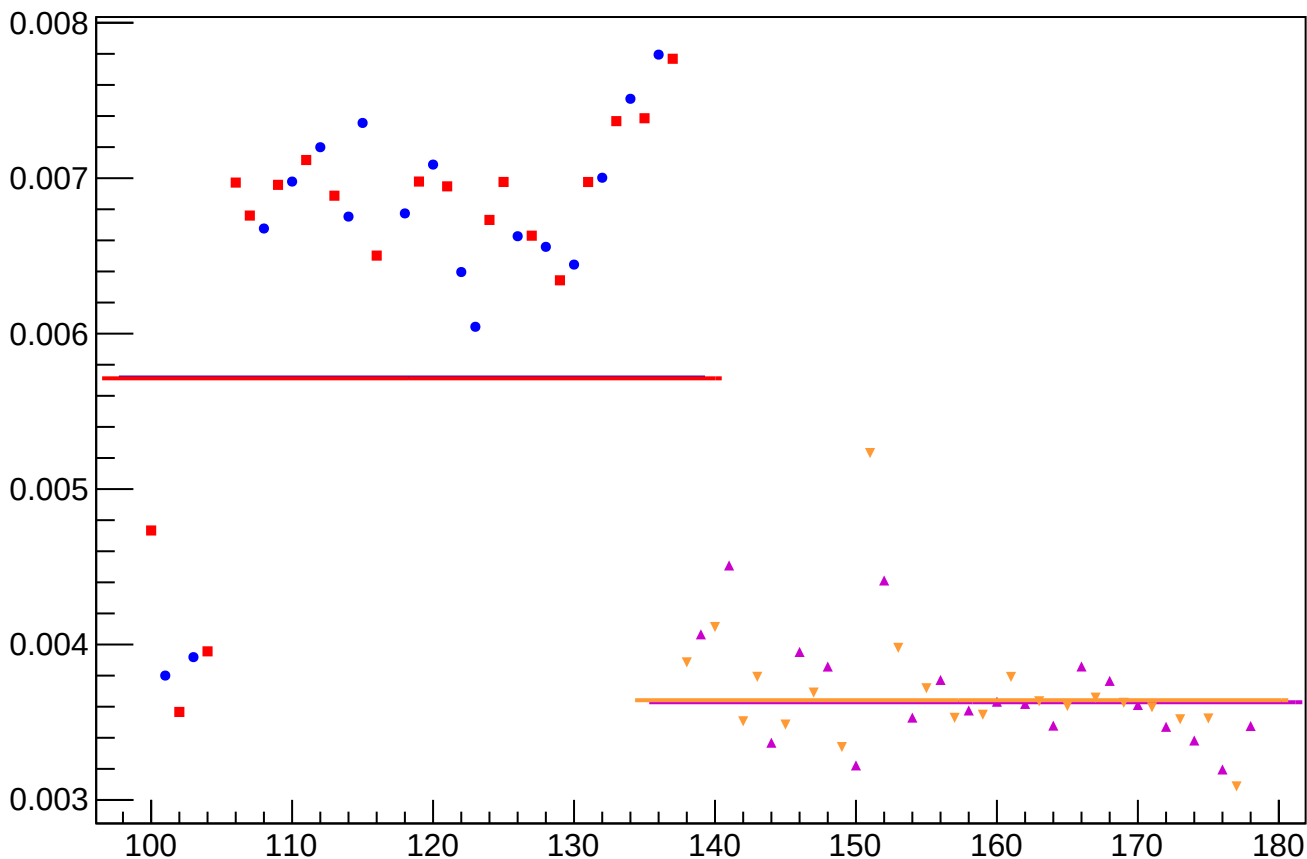
Right: -1.083+/-0.000 χ^2/NDF : 102900070258.1/35

In: 0.588+/-0.000 χ^2/NDF : 804094179536.5/36

Out: 0.573+/-0.000 χ^2/NDF : 772437495471.8/39

All: 0.580+/-0.000 χ^2/NDF : 1576677581319.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 837775.0/16

Left Out: 0.004+/-0.000 χ^2/NDF :221595.8/20

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :219136.1/19

Left: 0.004+/-0.000 χ^2/NDF : 440915.1/40

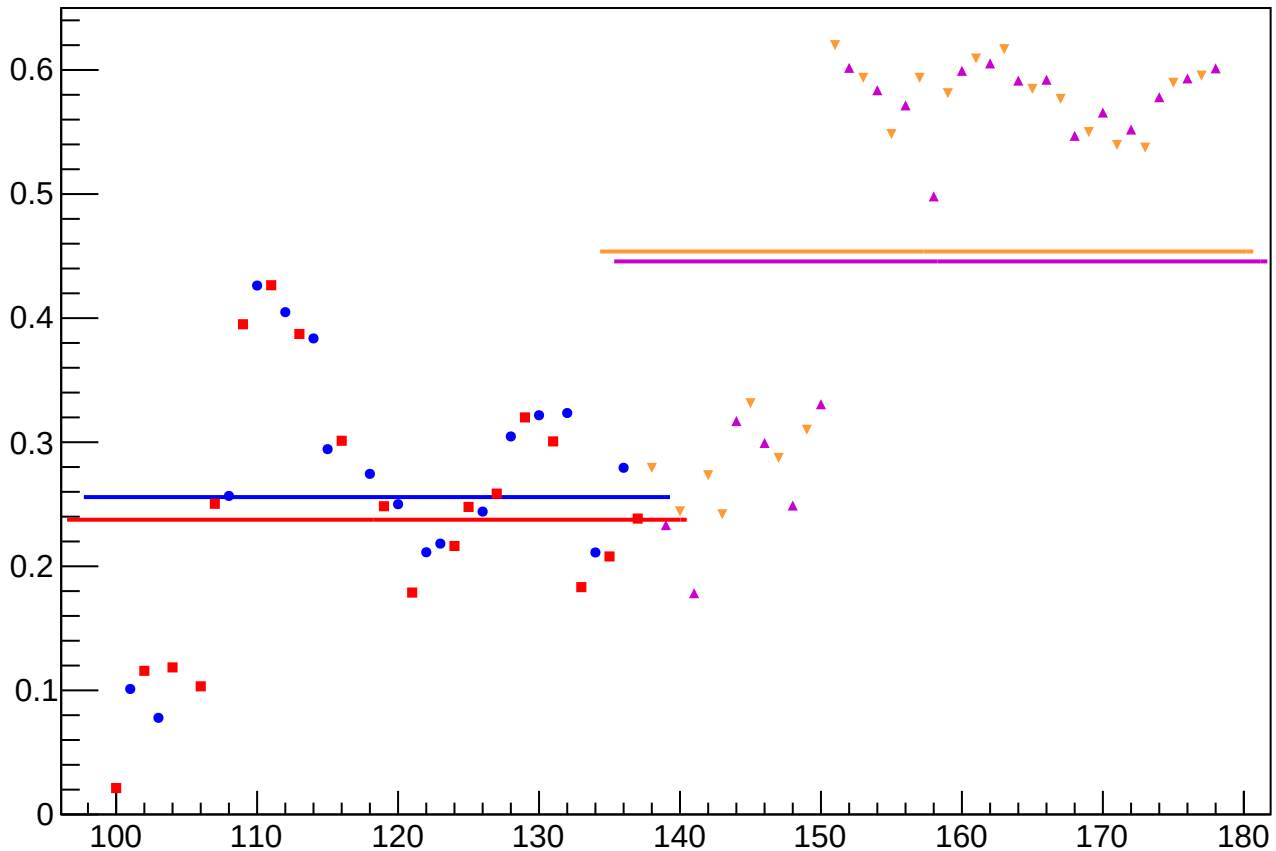
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2410282.4/36

Out: 0.004+/-0.000 χ^2/NDF :2523645.9/39

All: 0.004+/-0.000 χ^2/NDF : 4934262.4/76

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.454+/-0.000 χ^2/NDF : 94157330751.2/20

Right Out: 0.238+/-0.000 χ^2/NDF : 26057284646.9/18

Left In: 0.446+/-0.000 χ^2/NDF : 95742806312.3/19

Left: 0.450+/-0.000 χ^2/NDF : 190027535119.8/40

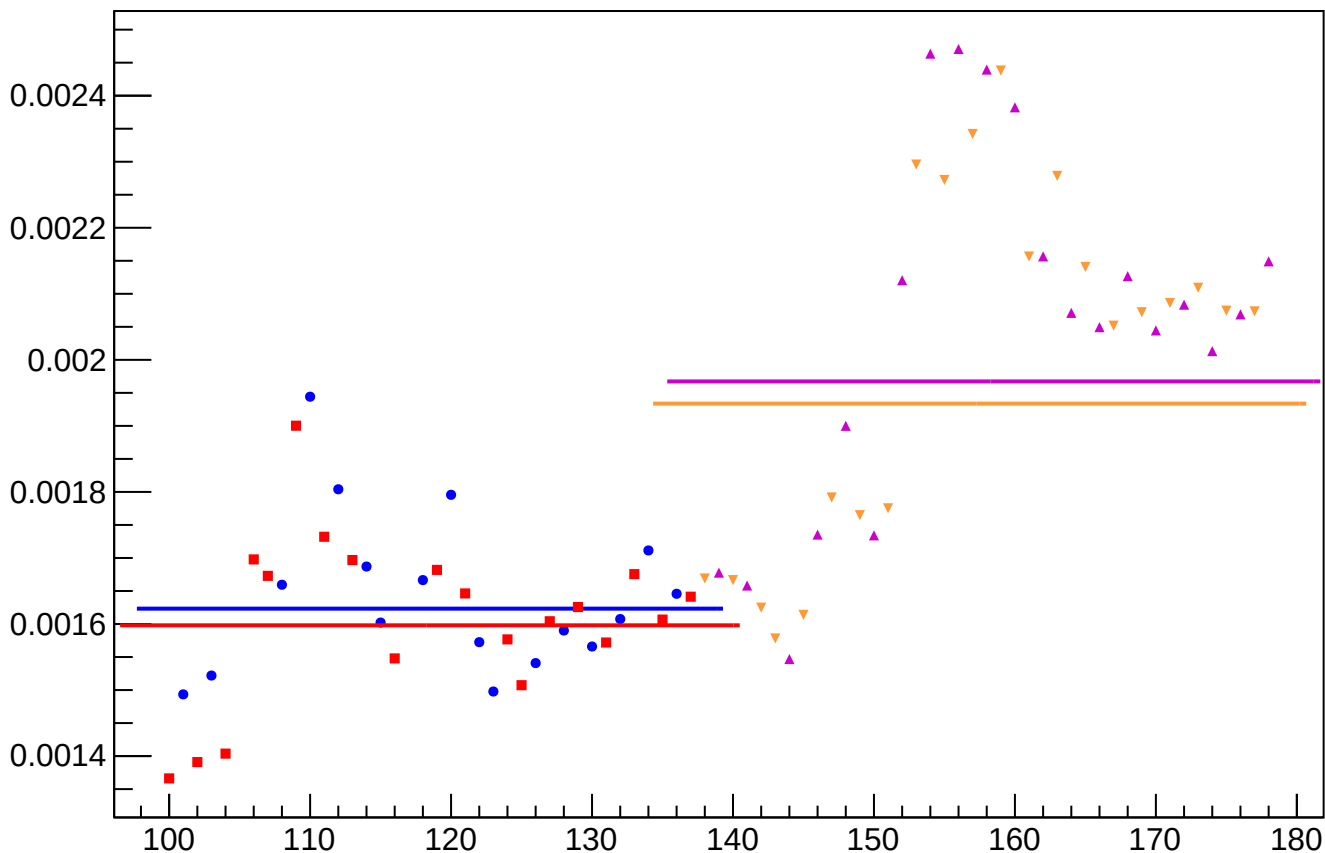
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.372+/-0.000 χ^2/NDF : 171053946403.0/36

Out: 0.368+/-0.000 χ^2/NDF : 196738953187.8/39

All: 0.370+/-0.000 χ^2/NDF : 367856675292.4

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52468.7/16

Left Out: 0.002+/-0.000 χ^2/NDF : 569124.2/20

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF : 580780.5/19

Left: 0.002+/-0.000 χ^2/NDF : 1154393.4/40

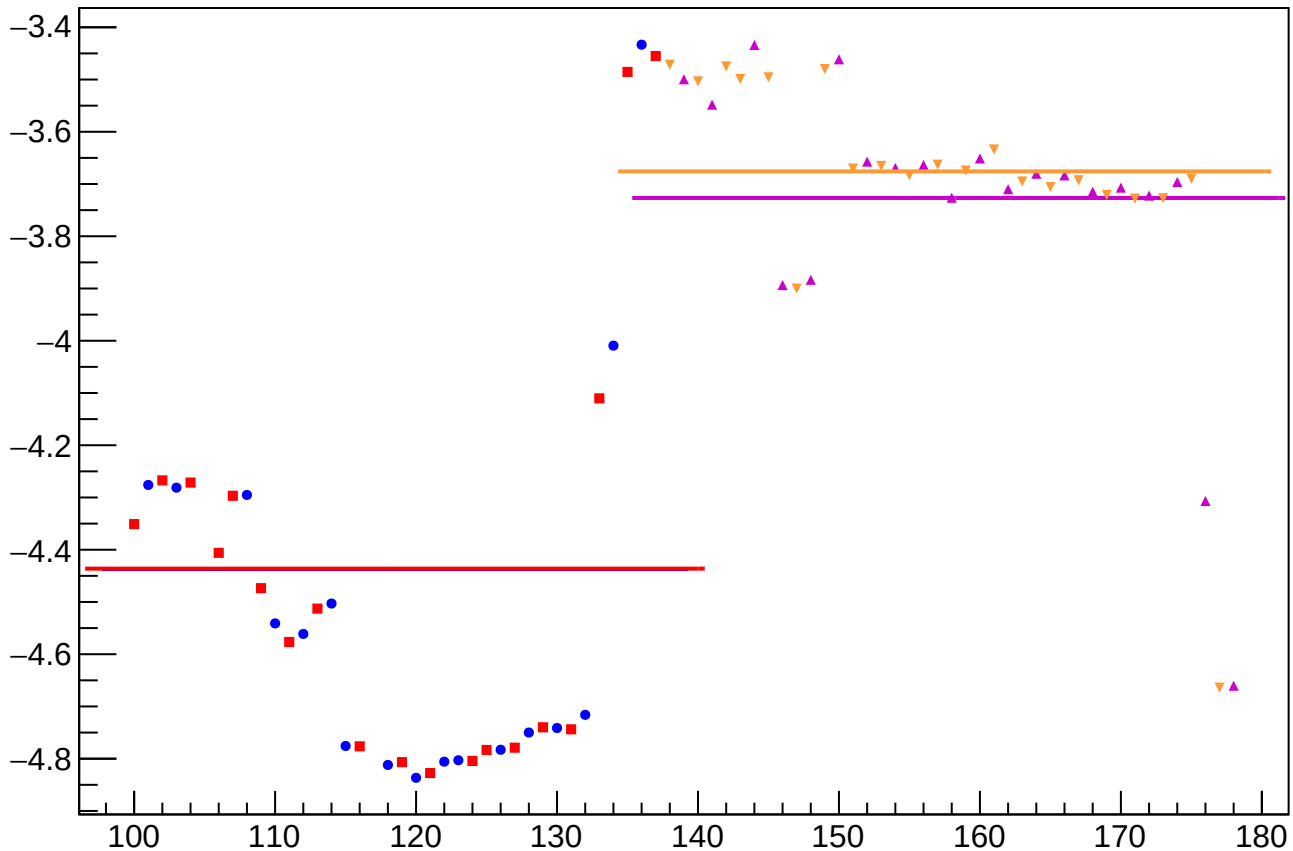
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 987338.5/36

Out: 0.002+/-0.000 χ^2/NDF : 1028923.2/39

All: 0.002+/-0.000 χ^2/NDF : 2023753.3/76

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2 /NDF: 392812415429.0/16

Left Out: -3.676 $\pm$ 0.000 χ^2 /NDF: 194501219354.3/20

Right Out: -4.436 $\pm$ 0.000 χ^2 /NDF: 325183860699.4/18

Left In: -3.727 $\pm$ 0.000 χ^2 /NDF: 232336442309.5/19

Left: -3.701 $\pm$ 0.000 χ^2 /NDF: 431181587156.7/40

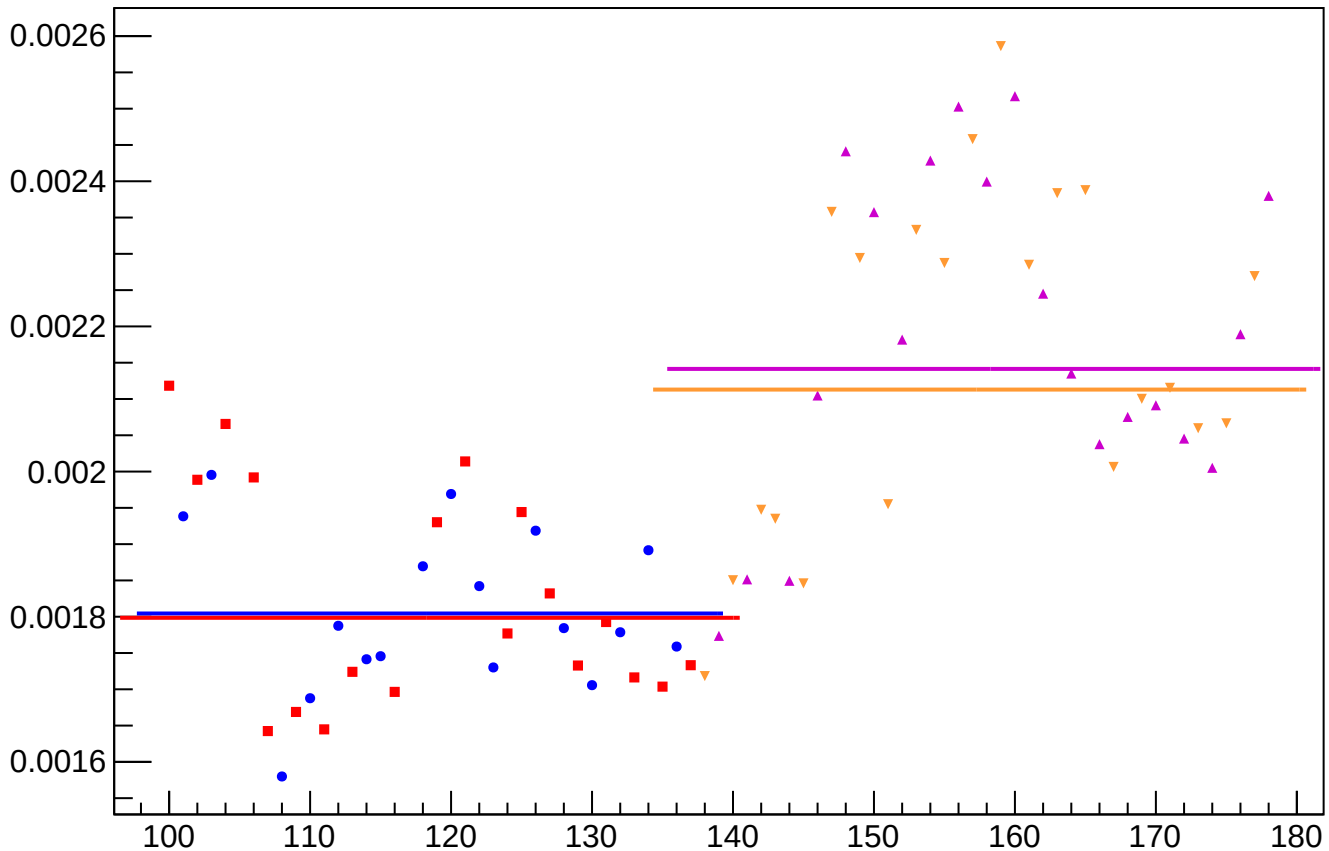
Right: -4.437 $\pm$ 0.000 χ^2 /NDF: 717996921060.6/35

In: -3.996 $\pm$ 0.000 χ^2 /NDF: 1251372967611.5/36

Out: -3.967 $\pm$ 0.000 χ^2 /NDF: 1277895288488.1/39

All: -3.981 $\pm$ 0.000 χ^2 /NDF: 2531553197042

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 49103.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :351927.7/20

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF :322445.7/19

Left: 0.002+/-0.000 χ^2/NDF : 677091.0/40

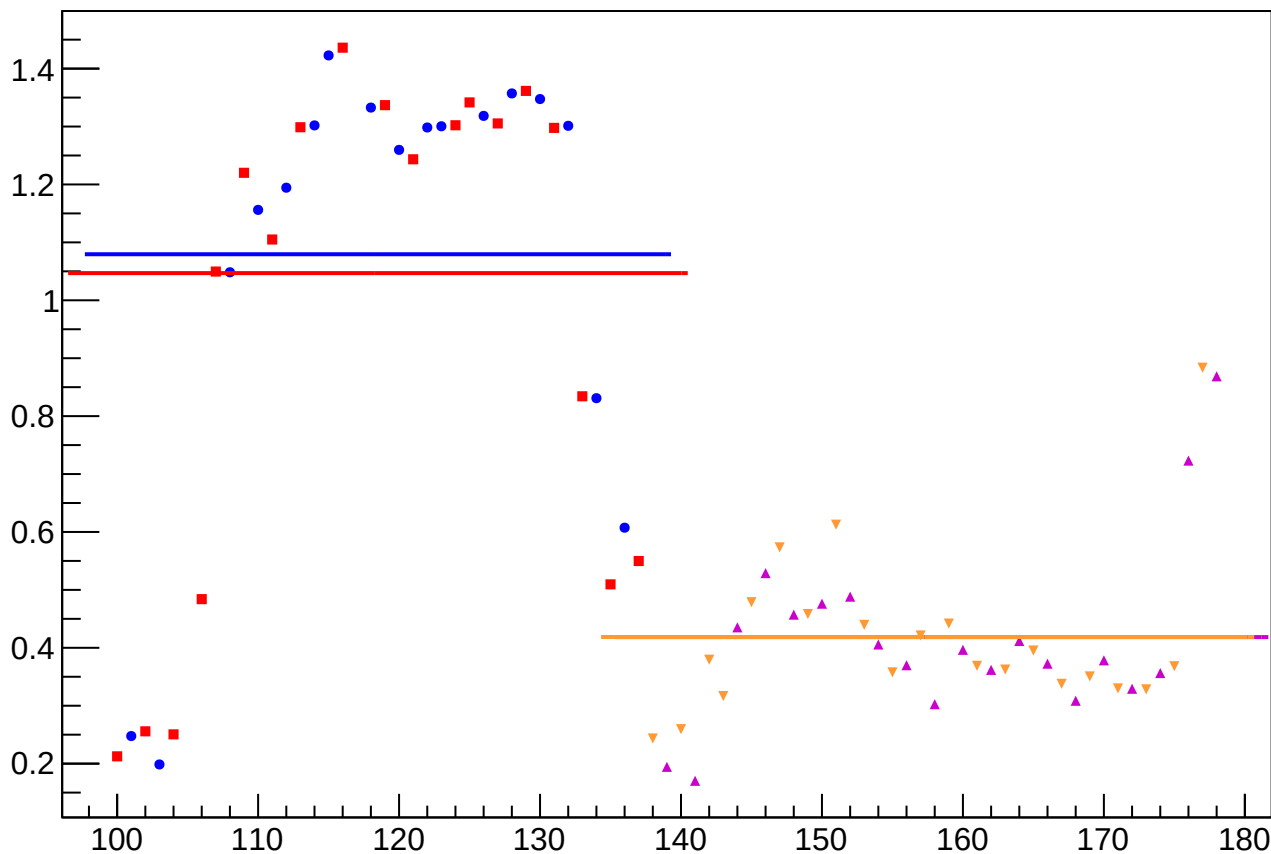
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF :653531.0/36

Out: 0.002+/-0.000 χ^2/NDF :692285.8/39

All: 0.002+/-0.000 χ^2/NDF : 1348229.8/76

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 ± 0.000 $\chi^2/\text{NDF}: 17533321220.5/16$

Left Out: 0.419 ± 0.000 $\chi^2/\text{NDF}: 3787336896.2/20$

Right Out: 1.047 ± 0.000 $\chi^2/\text{NDF}: 19683192379.0/18$

Left In: 0.419 ± 0.000 $\chi^2/\text{NDF}: 4390671058.0/19$

Left: 0.419 ± 0.000 $\chi^2/\text{NDF}: 8178009846.5/40$

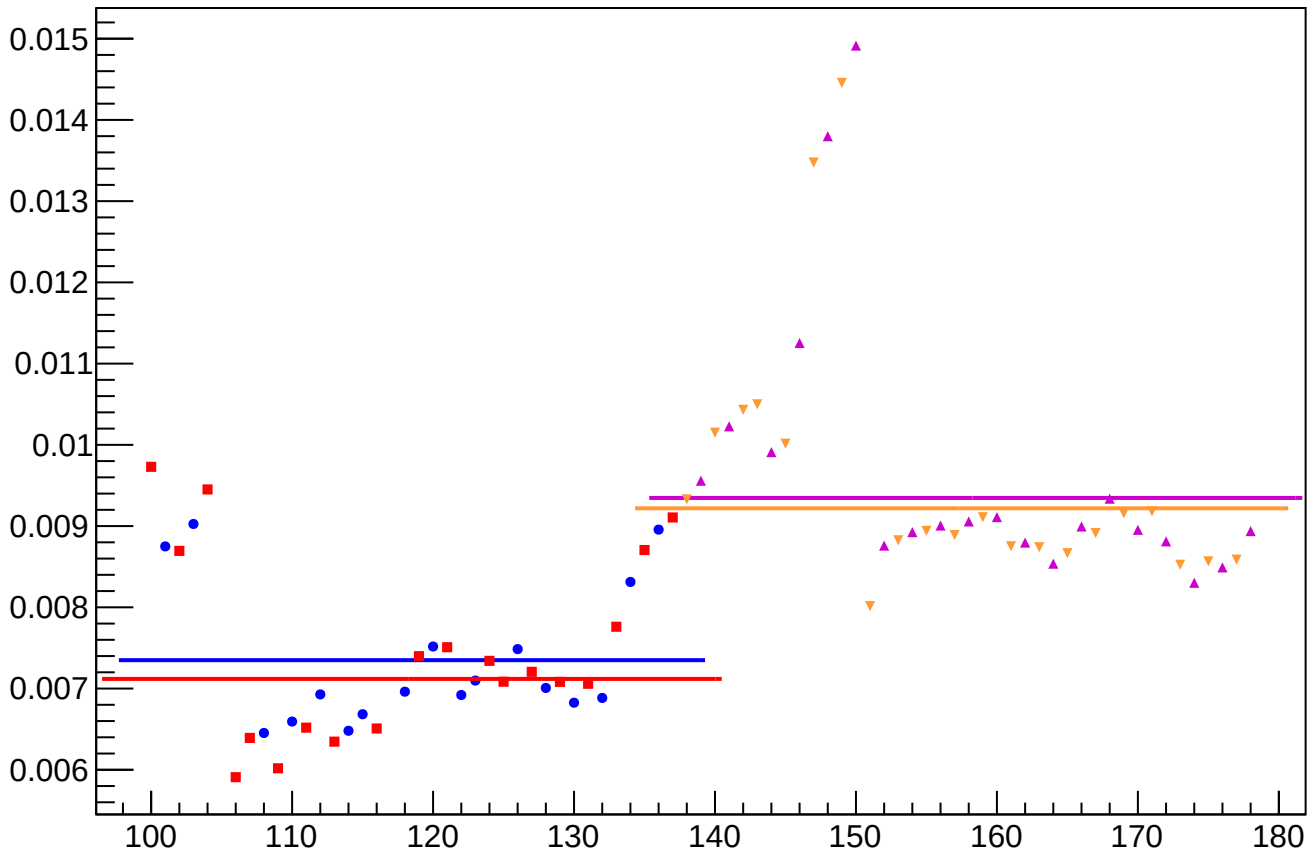
Right: 1.062 ± 0.000 $\chi^2/\text{NDF}: 37285218980.1/35$

In: 0.693 ± 0.000 $\chi^2/\text{NDF}: 53202199564.5/36$

Out: 0.689 ± 0.000 $\chi^2/\text{NDF}: 54399219367.7/39$

All: 0.691 ± 0.000 $\chi^2/\text{NDF}: 107603108823.7$

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.009+/-0.000 χ^2/NDF : 505404.9/20

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 555494.2/19

Left: 0.009+/-0.000 χ^2/NDF : 1063762.8/40

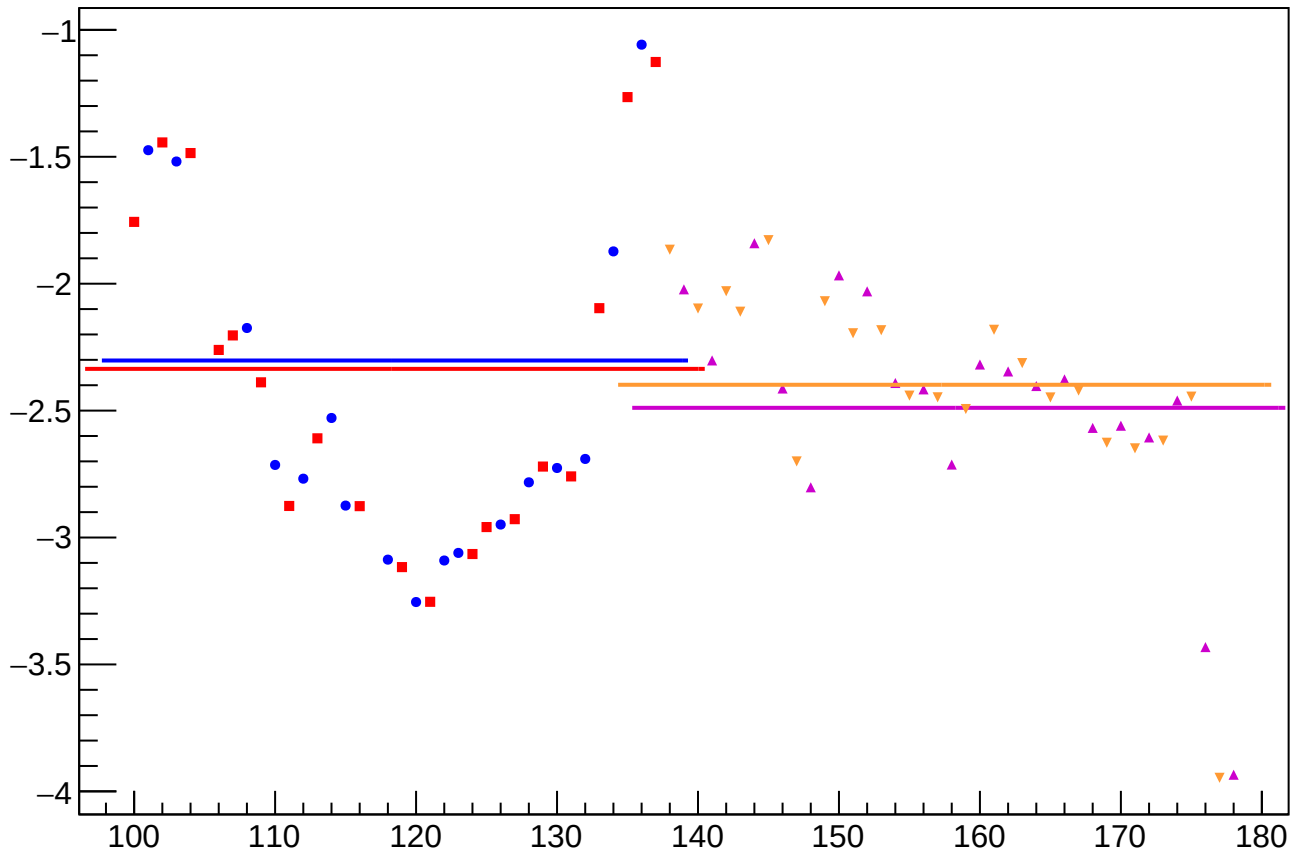
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1307277.7/36

Out: 0.008+/-0.000 χ^2/NDF : 1455890.5/39

All: 0.008+/-0.000 χ^2/NDF : 2775916.8/76

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.398+/-0.000 χ^2/NDF : 37994089460.1/20

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.489+/-0.000 χ^2/NDF : 42179732181.3/19

Left: -2.443+/-0.000 χ^2/NDF : 81031214729.4/40

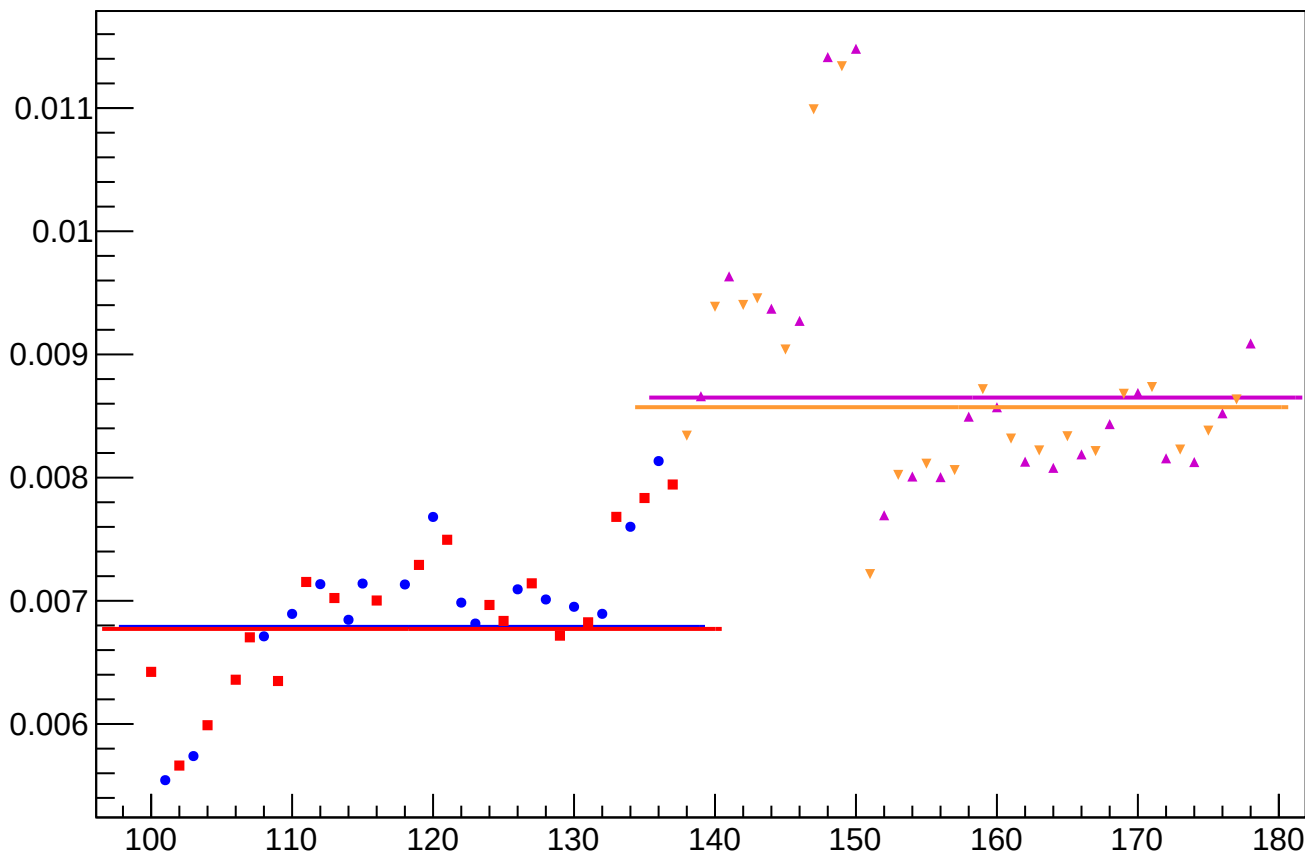
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.412+/-0.000 χ^2/NDF : 118869358306.1/36

Out: -2.372+/-0.000 χ^2/NDF : 102843162994.1/39

All: -2.391+/-0.000 χ^2/NDF : 221996411634.8

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165199.2/16

Left Out: 0.009+/-0.000 χ^2/NDF : 294045.9/20

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 313083.9/19

Left: 0.009+/-0.000 χ^2/NDF : 608398.9/40

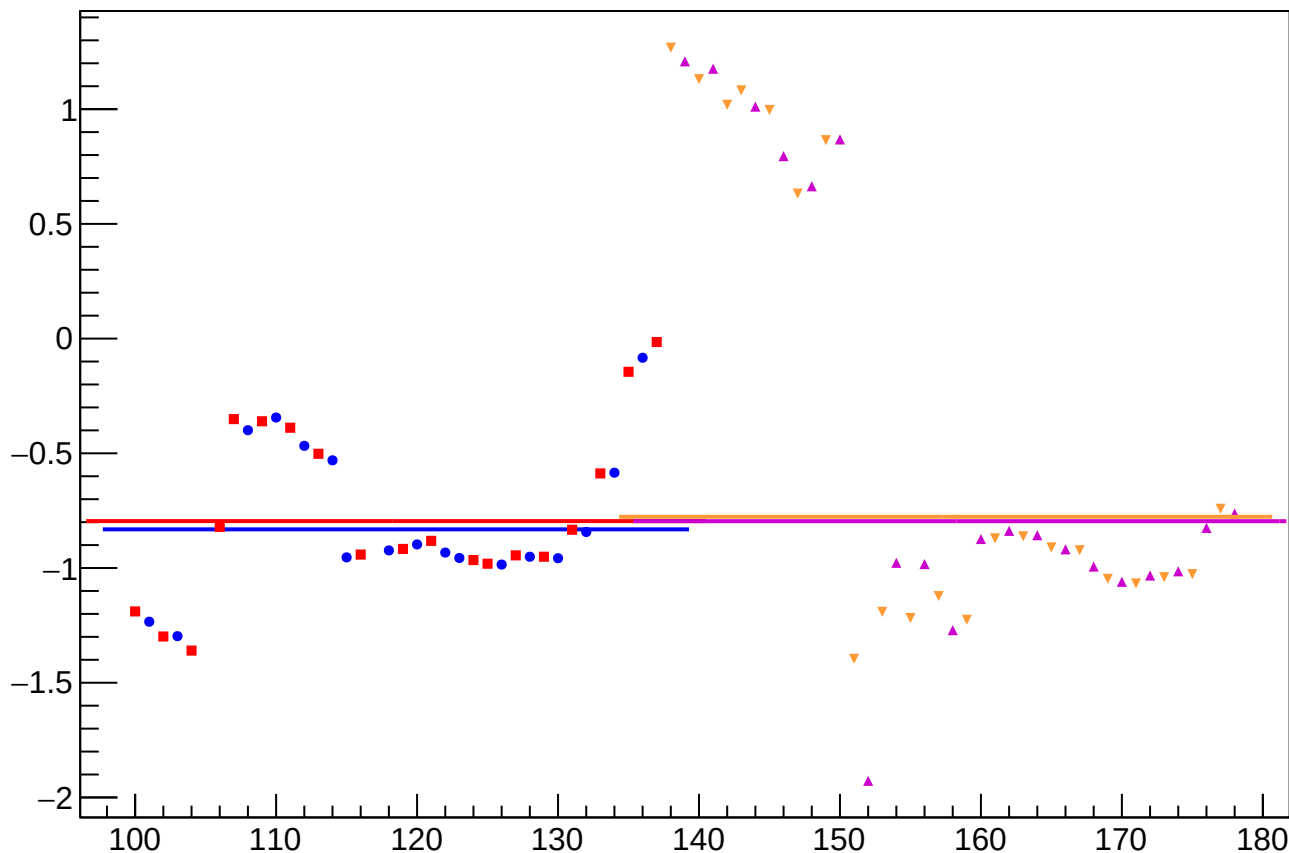
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF : 1063114.6/36

Out: 0.008+/-0.000 χ^2/NDF : 995310.0/39

All: 0.008+/-0.000 χ^2/NDF : 2059859.6/76

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.786+/-0.000

χ^2/NDF : 241915639183.0/40

Left Out: -0.776+/-0.000

χ^2/NDF : 118480470233.1/20

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

In: -0.803+/-0.000

χ^2/NDF : 130139994865.6/36

Out: -0.780+/-0.000

χ^2/NDF : 126319497863.3/39

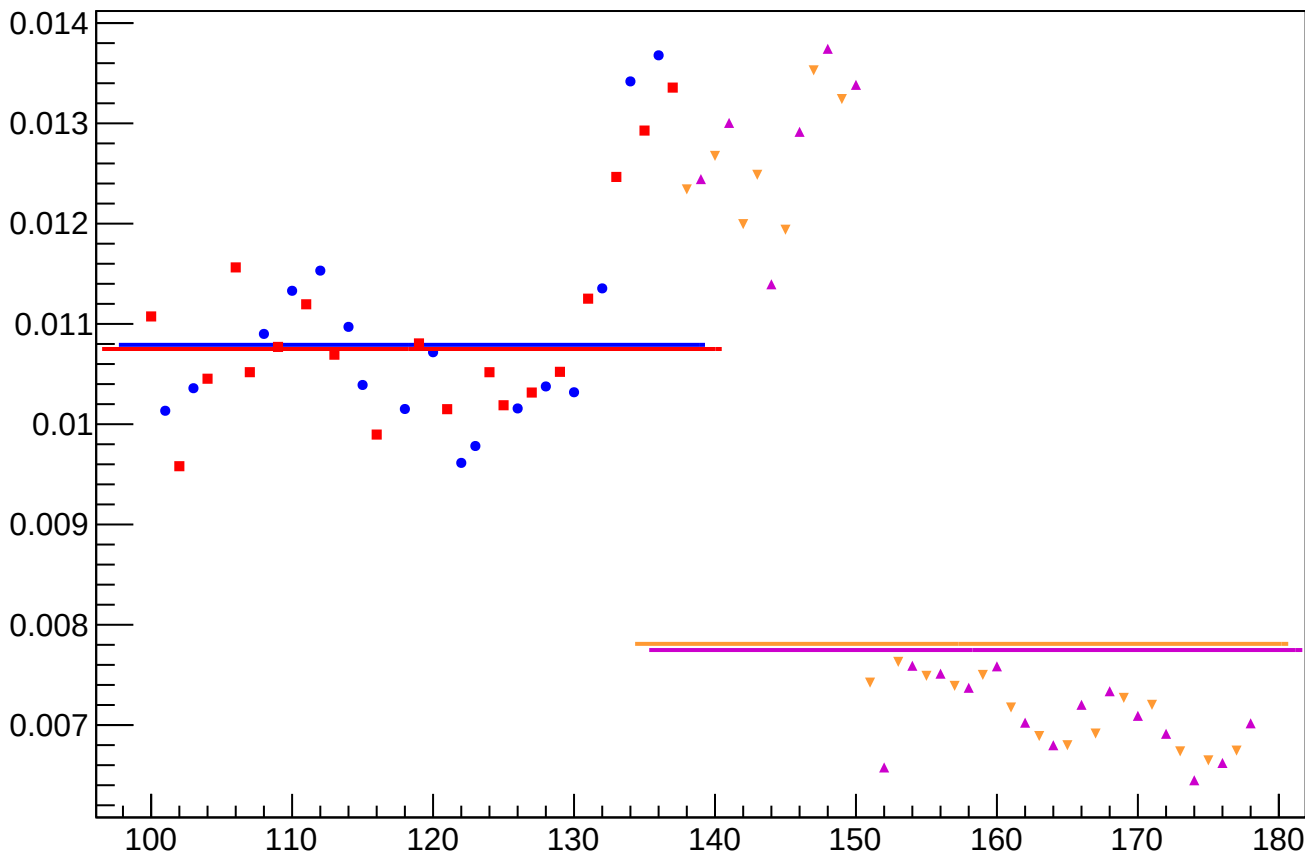
Left In: -0.796+/-0.000

χ^2/NDF : 123390128723.9/19

All: -0.791+/-0.000

χ^2/NDF : 256534299123.6

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :1675606.6/20

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF :1740245.9/19

Left: 0.008+/-0.000 χ^2/NDF : 3416758.3/40

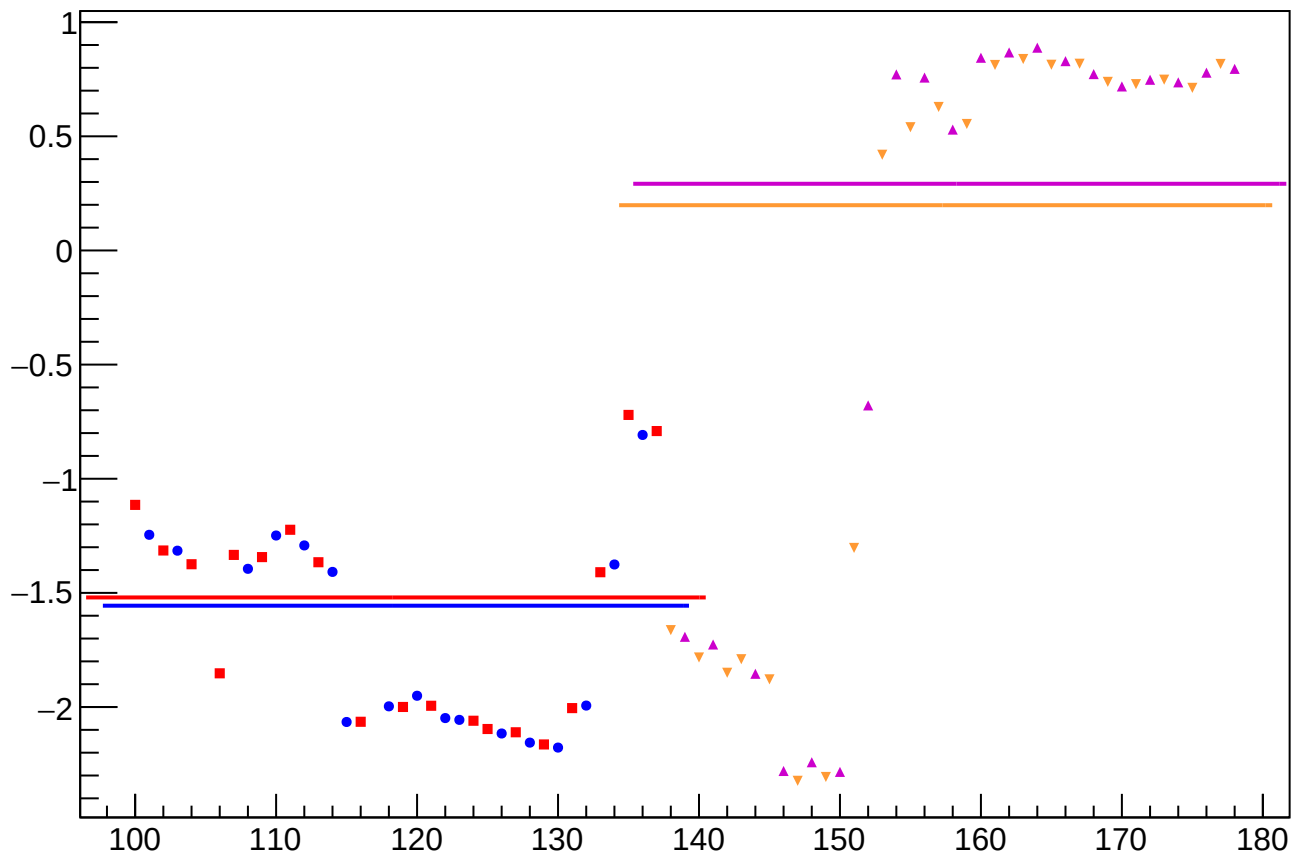
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.008+/-0.000 χ^2/NDF :2710969.8/36

Out: 0.008+/-0.000 χ^2/NDF :2592147.8/39

All: 0.008+/-0.000 χ^2/NDF : 5304329.5/76

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: 0.198+/-0.000 χ^2/NDF : 2424395657865.4/20

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: 0.292+/-0.000 χ^2/NDF : 2214323715337.6/19

Left: 0.245+/-0.000 χ^2/NDF : 4648518324211.3/40

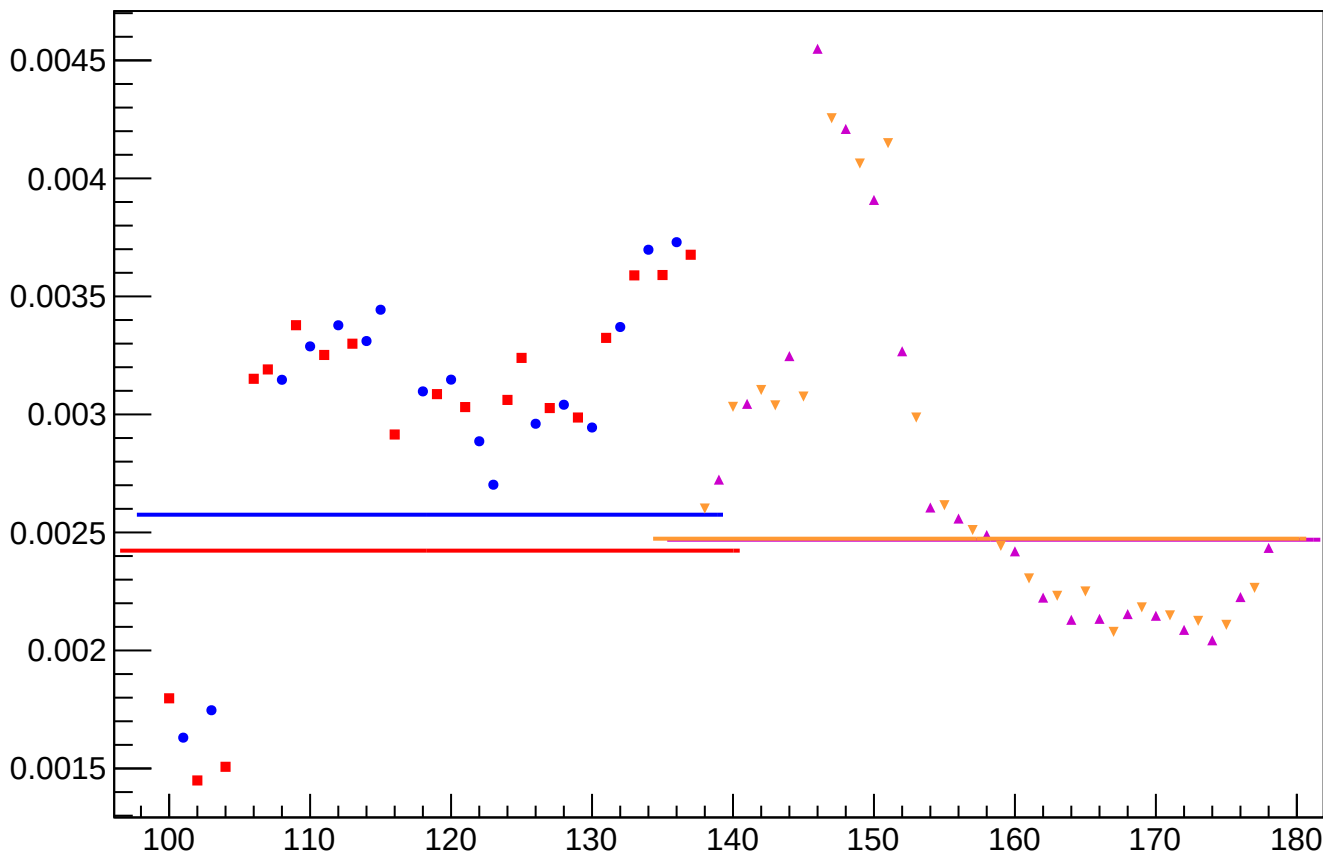
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.225+/-0.000 χ^2/NDF : 4469000037557.0/36

Out: -0.318+/-0.000 χ^2/NDF : 4558494772233.9/39

All: -0.273+/-0.000 χ^2/NDF : 9040900463924

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013833.9/16

Left Out: 0.002+/-0.000 χ^2/NDF :1057268.3/20

Right Out: 0.002+/-0.000 χ^2/NDF : 1490134.1/18

Left In: 0.002+/-0.000 χ^2/NDF :1131792.6/19

Left: 0.002+/-0.000 χ^2/NDF : 2189102.7/40

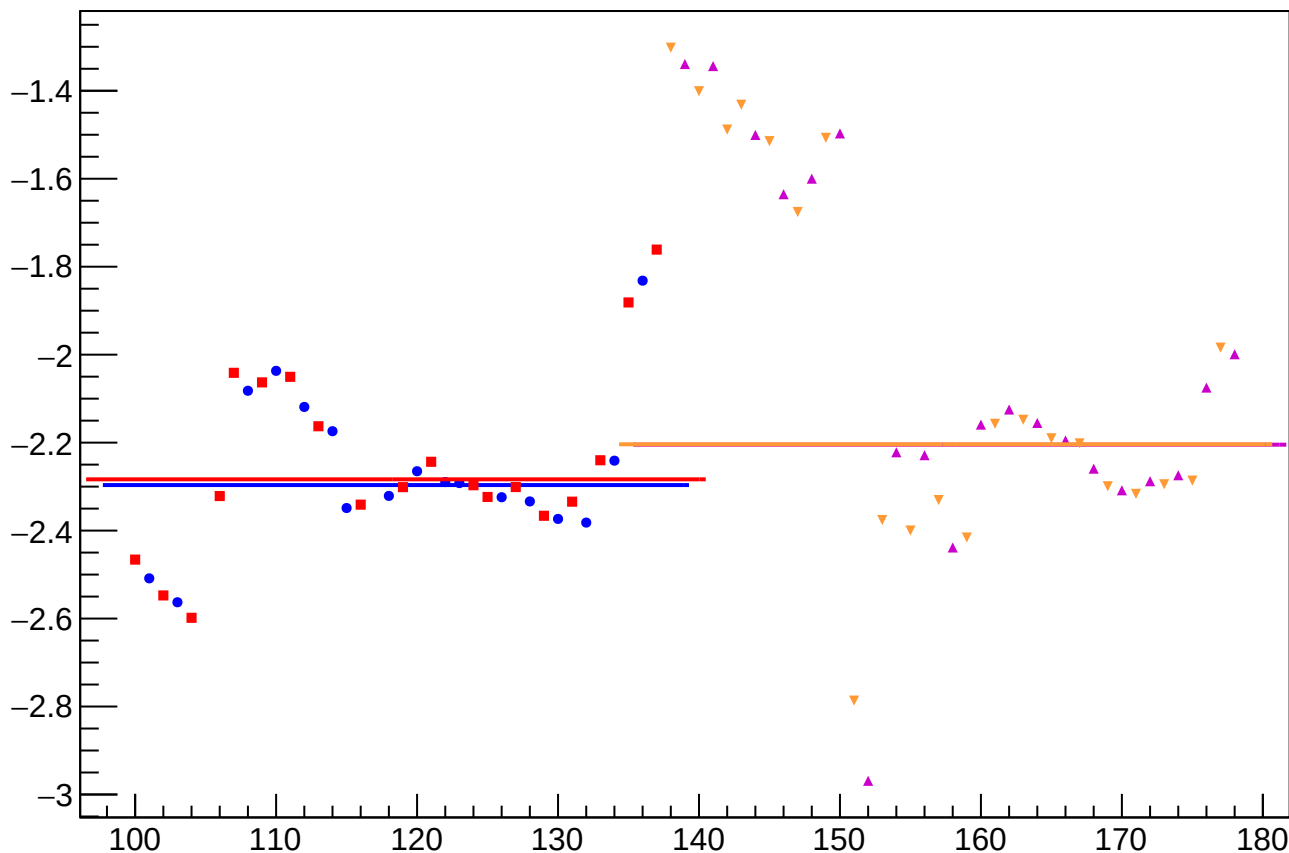
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.002+/-0.000 χ^2/NDF :2159434.3/36

Out: 0.002+/-0.000 χ^2/NDF :2550866.2/39

All: 0.002+/-0.000 χ^2/NDF : 4715441.2/76

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.204+/-0.000 χ^2/NDF : 55039429693.8/20

Right Out: -2.283+/-0.000 χ^2/NDF : 6548716896.9/18

Left In: -2.205+/-0.000 χ^2/NDF : 70013540232.1/19

Left: -2.204+/-0.000 χ^2/NDF : 125053191445.5/40

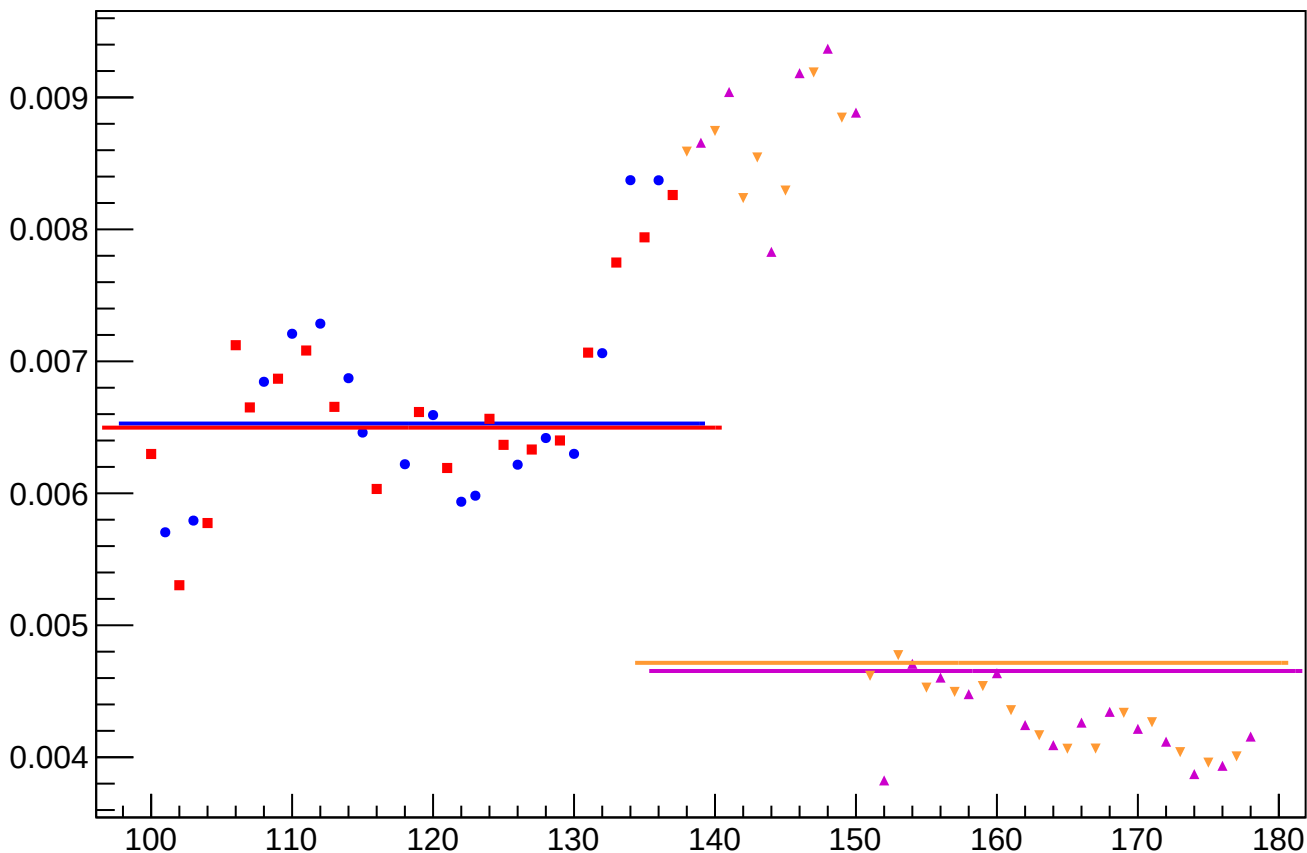
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.222+/-0.000 χ^2/NDF : 76828587942.2/36

Out: -2.220+/-0.000 χ^2/NDF : 62401049045.9/39

All: -2.221+/-0.000 χ^2/NDF : 139232037626.9

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 :2270803.4/20

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF :2354284.0/19

Left: 0.005+/-0.000 χ^2/NDF : 4627513.8/40

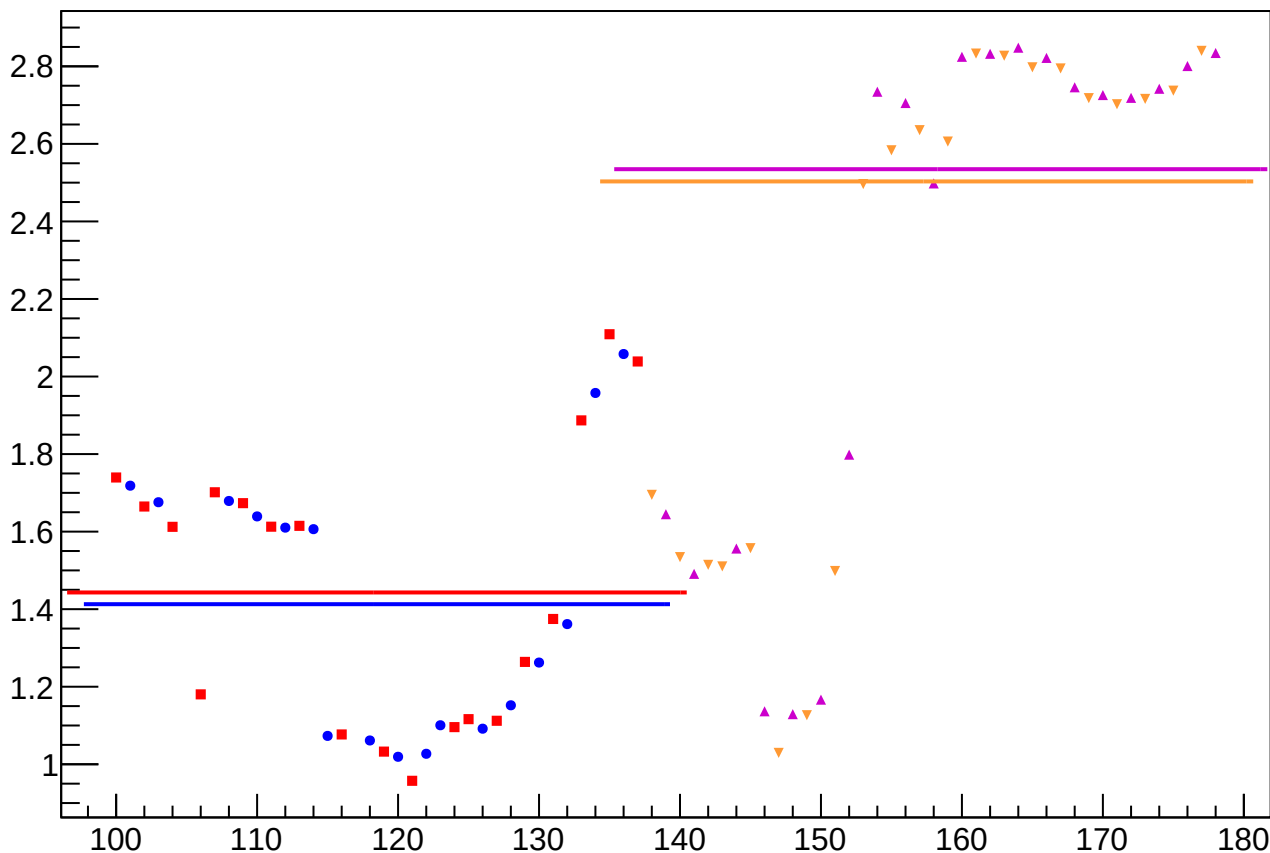
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF :3391693.0/36

Out: 0.005+/-0.000 χ^2/NDF :3249610.2/39

All: 0.005+/-0.000 χ^2/NDF : 6644162.0/76

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.503+/-0.000 χ^2/NDF : 253163598176.1/20

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.535+/-0.000 χ^2/NDF : 250894773031.4/19

Left: 2.519+/-0.000 χ^2/NDF : 504611840778.0/40

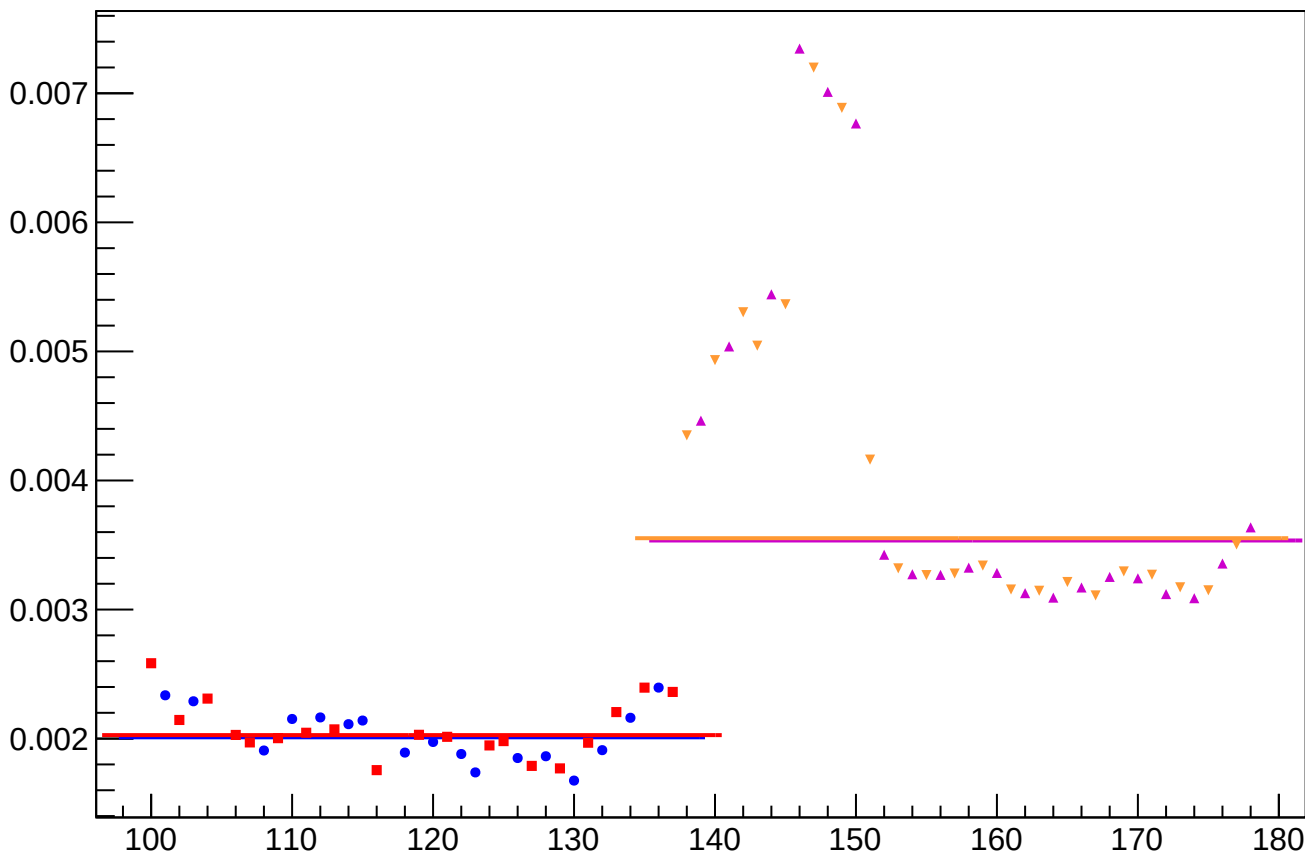
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.883+/-0.000 χ^2/NDF : 1228301175870.5/36

Out: 1.884+/-0.000 χ^2/NDF : 1163677890247.5/39

All: 1.883+/-0.000 χ^2/NDF : 2391980633636.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 152530.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :1350501.1/20

Right Out: 0.002+/-0.000 χ^2/NDF : 103926.2/18

Left In: 0.004+/-0.000 χ^2/NDF :1537100.6/19

Left: 0.004+/-0.000 χ^2/NDF : 2887949.0/40

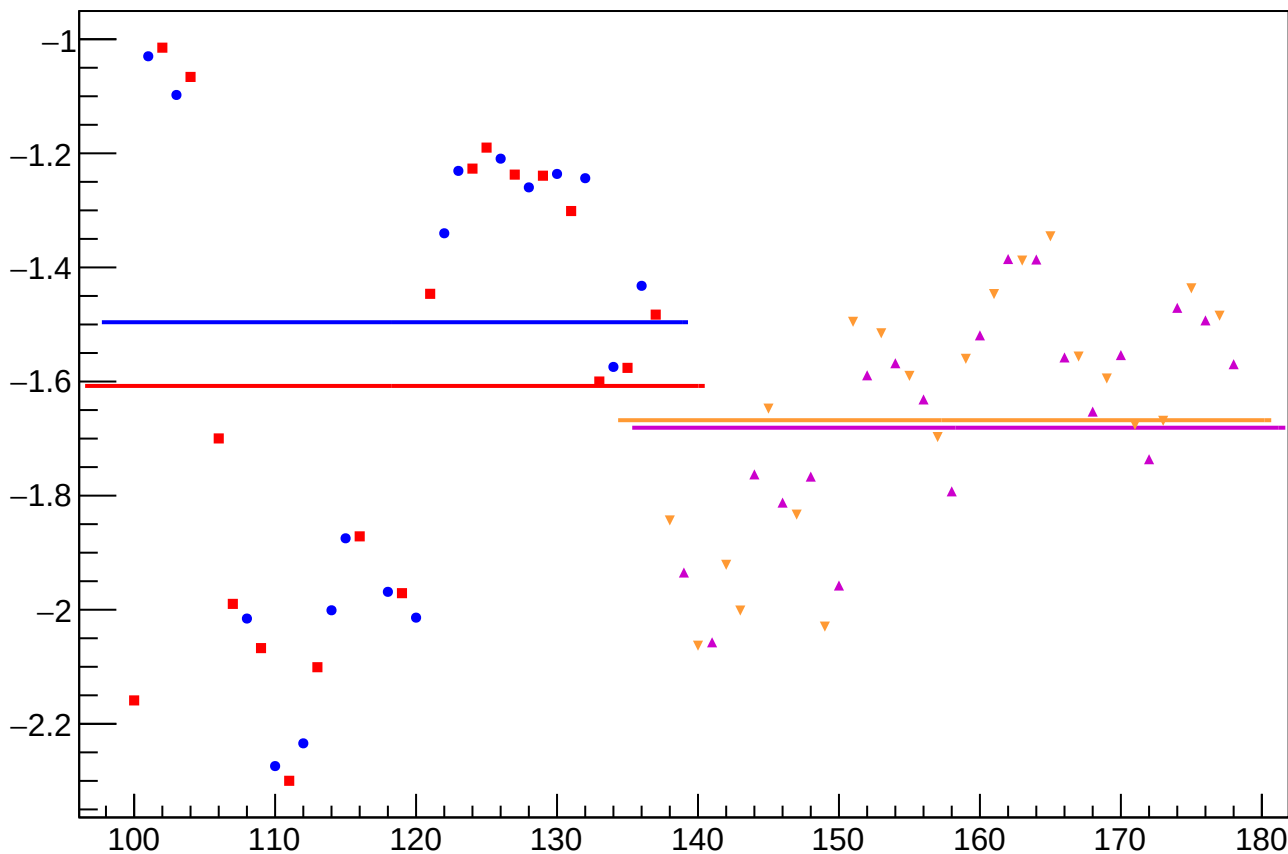
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4663717.6/36

Out: 0.003+/-0.000 χ^2/NDF :4508390.0/39

All: 0.003+/-0.000 χ^2/NDF : 9172527.0/76

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.668+/-0.000 χ^2/NDF : 17508422059.4/20

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.681+/-0.000 χ^2/NDF : 13135171757.9/19

Left: -1.674+/-0.000 χ^2/NDF : 30676471154.4/40

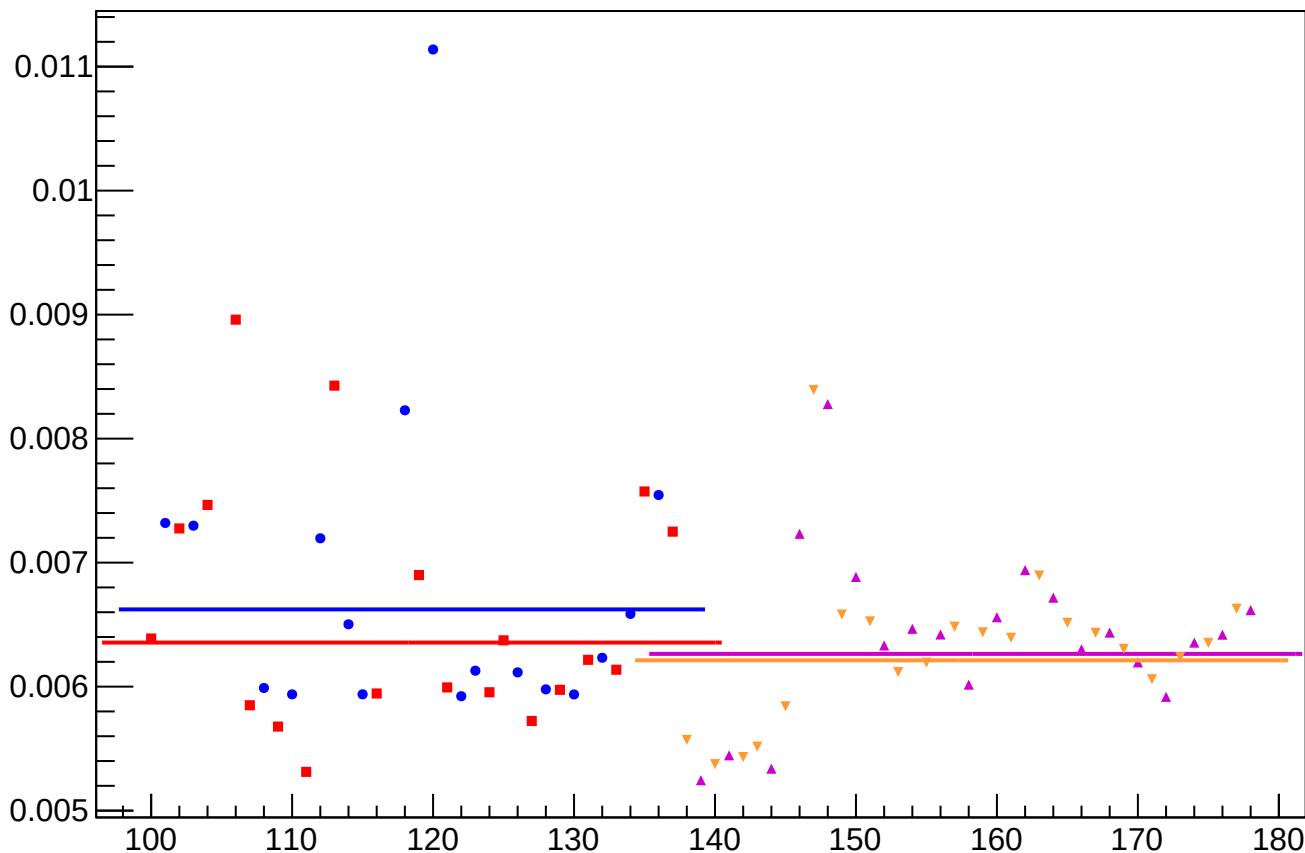
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.631+/-0.000 χ^2/NDF : 39115360440.8/36

Out: -1.650+/-0.000 χ^2/NDF : 45759570246.3/39

All: -1.641+/-0.000 χ^2/NDF : 84974602884.5/78

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :234568.3/20

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :298719.4/19

Left: 0.006+/-0.000 χ^2/NDF : 534319.2/40

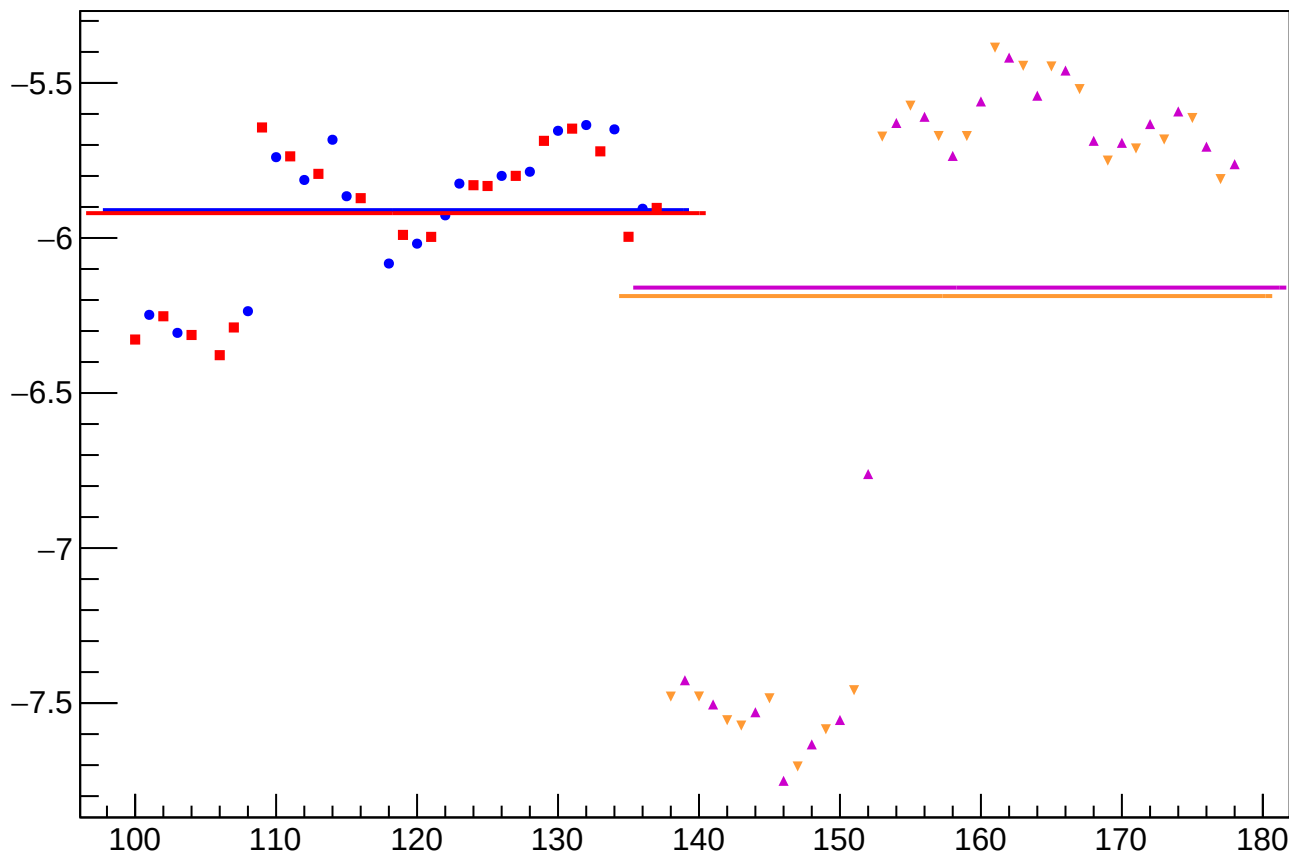
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :557346.3/36

Out: 0.006+/-0.000 χ^2/NDF :467147.8/39

All: 0.006+/-0.000 χ^2/NDF : 1030602.4/76

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.187+/-0.000 χ^2/NDF : 178535889707.7/20

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.160+/-0.000 χ^2/NDF : 154942115180.3/19

Left: -6.174+/-0.000 χ^2/NDF : 333561432429.8/40

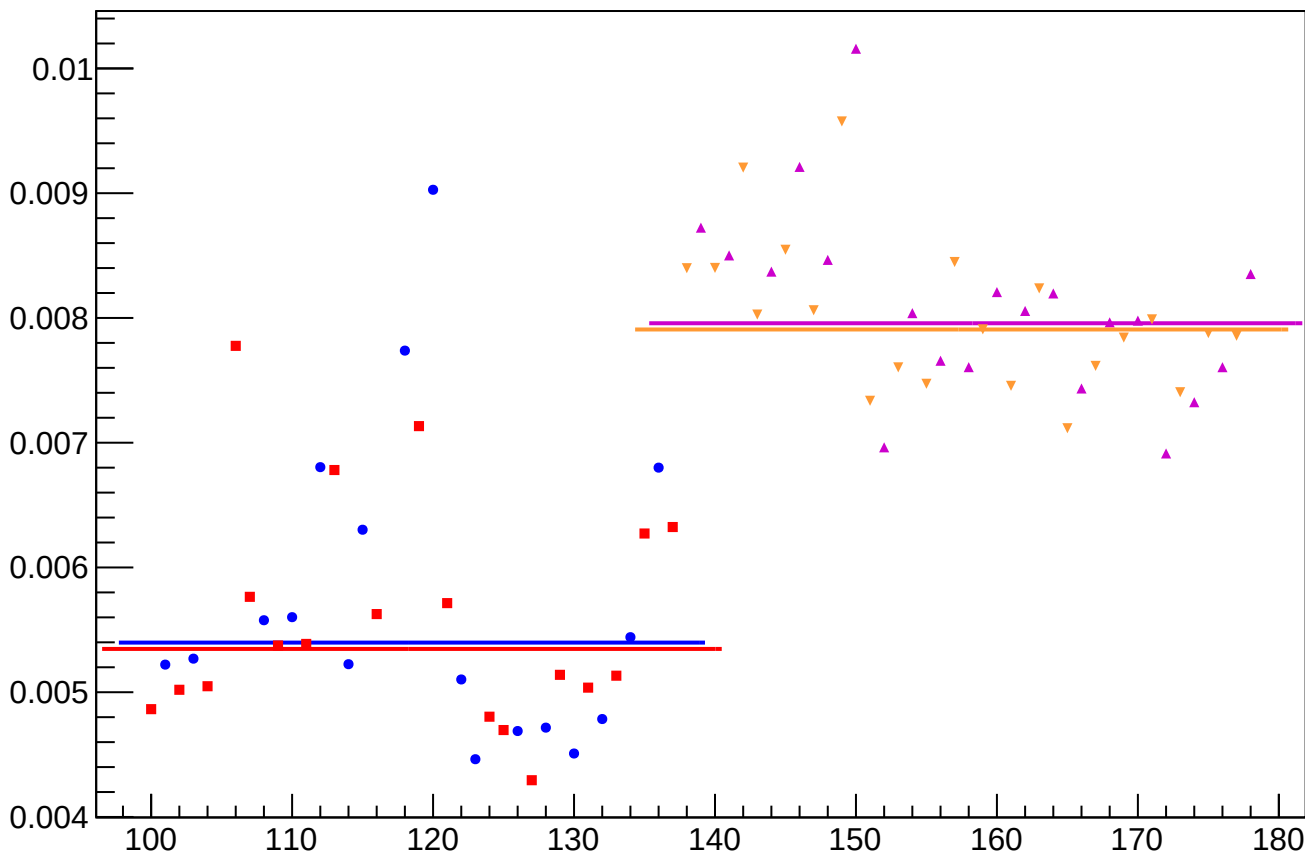
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.041+/-0.000 χ^2/NDF : 172705804363.4/36

Out: -6.055+/-0.000 χ^2/NDF : 199356452683.7/39

All: -6.048+/-0.000 χ^2/NDF : 372105895083.2

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 371347.4/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:123215.6/20

Right Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 249377.5/18

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:207593.3/19

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 331368.0/40

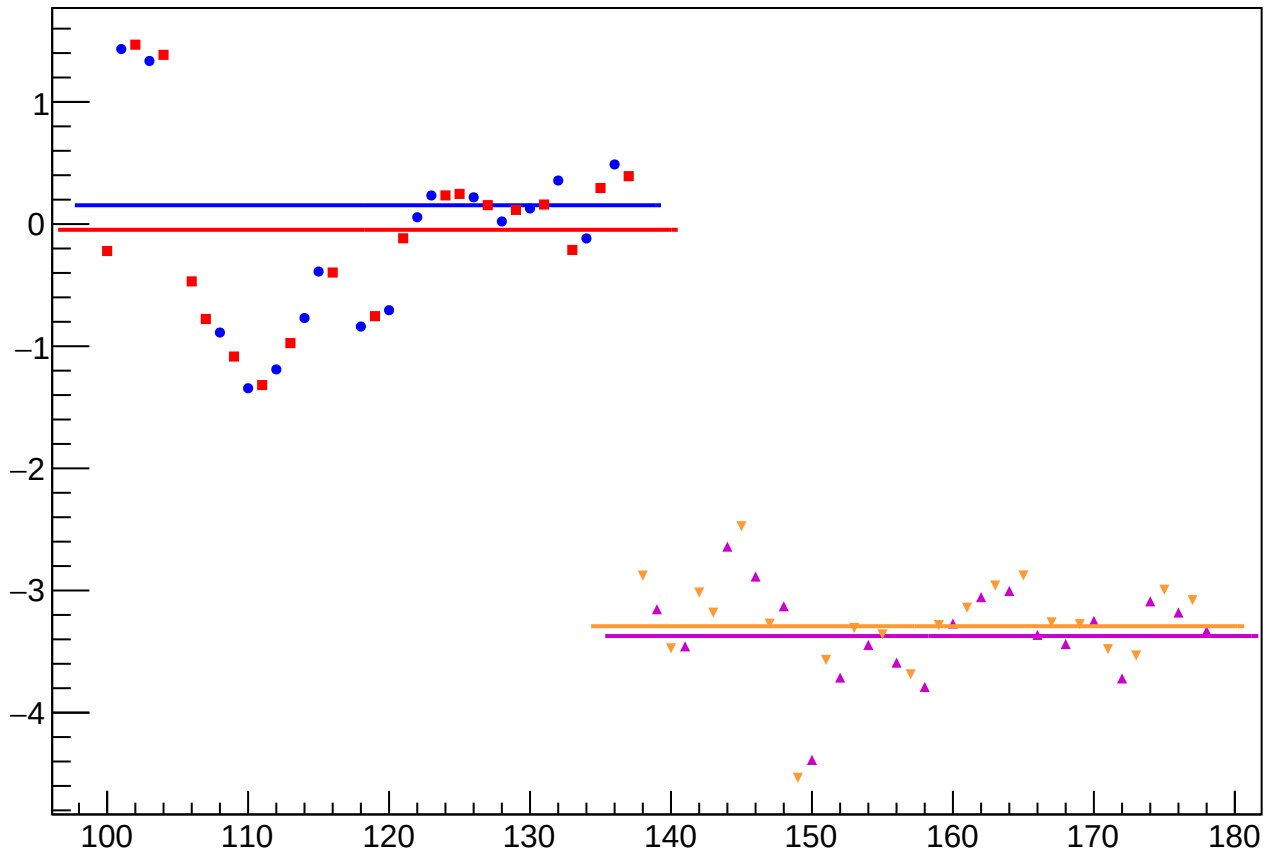
Right: 0.005 $\pm$ 0.000 χ^2 /NDF: 621271.5/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:1966739.1/36

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1845935.8/39

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 3816671.2/76

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.292+/-0.000 χ^2/NDF : 8693431290.7/20

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.373+/-0.000 χ^2/NDF : 7738000270.0/19

Left: -3.332+/-0.000 χ^2/NDF : 16625069504.4/40

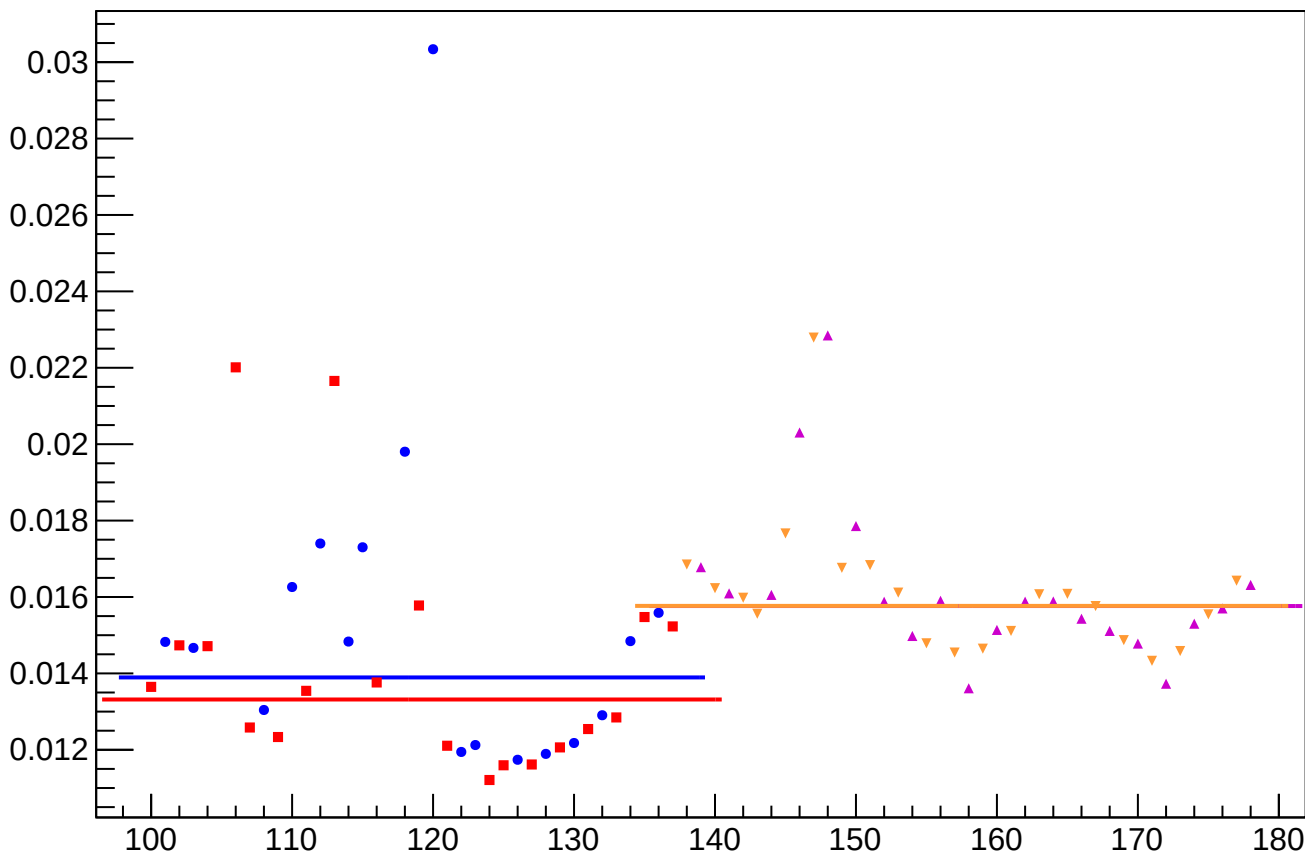
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.170+/-0.000 χ^2/NDF : 276074251631.0/36

Out: -2.077+/-0.000 χ^2/NDF : 269849577659.9/39

All: -2.121+/-0.000 χ^2/NDF : 546327288209.5

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :234257.0/20

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :329866.5/19

Left: 0.016+/-0.000 χ^2/NDF : 564124.4/40

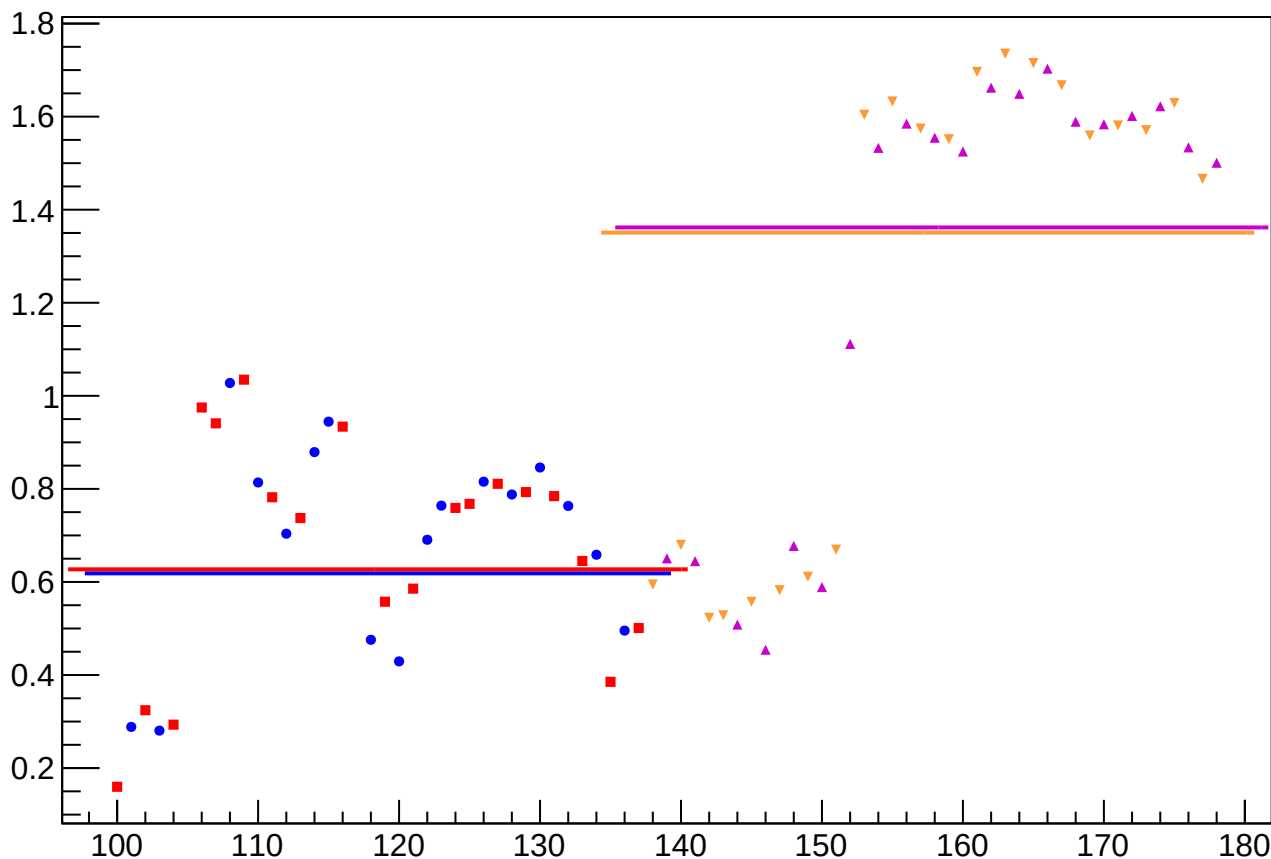
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :871613.6/36

Out: 0.015+/-0.000 χ^2/NDF :799116.2/39

All: 0.015+/-0.000 χ^2/NDF : 1677871.5/76

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.351+/-0.000 χ^2/NDF : 72249887205.1/20

Right Out: 0.627+/-0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.362+/-0.000 χ^2/NDF : 62791000903.2/19

Left: 1.356+/-0.000 χ^2/NDF : 135064197981.4/40

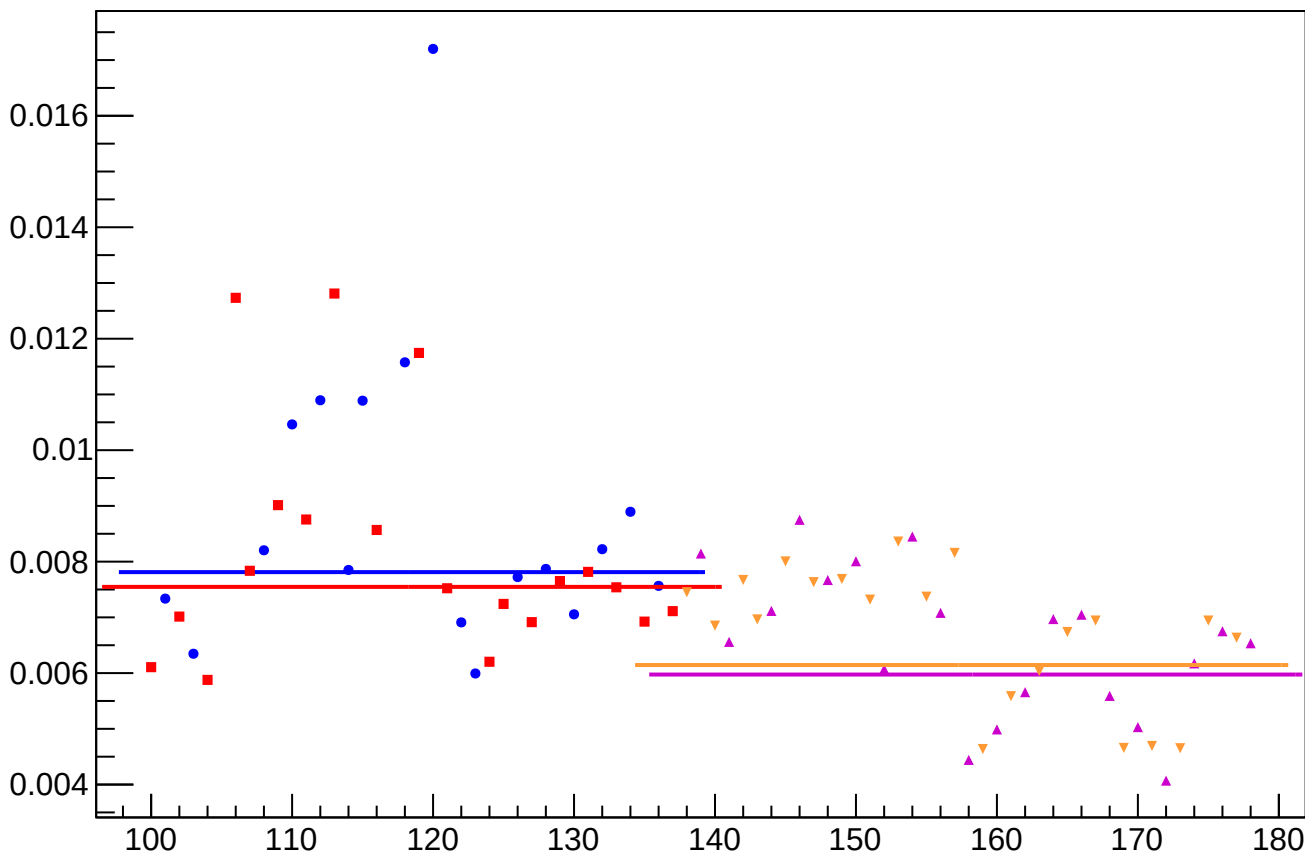
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.216+/-0.000 χ^2/NDF : 110582148780.3/36

Out: 1.188+/-0.000 χ^2/NDF : 122707654049.9/39

All: 1.202+/-0.000 χ^2/NDF : 233485921295.8

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.006+/-0.000 χ^2/NDF :1251319.7/20

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF :1329719.2/19

Left: 0.006+/-0.000 χ^2/NDF : 2592220.3/40

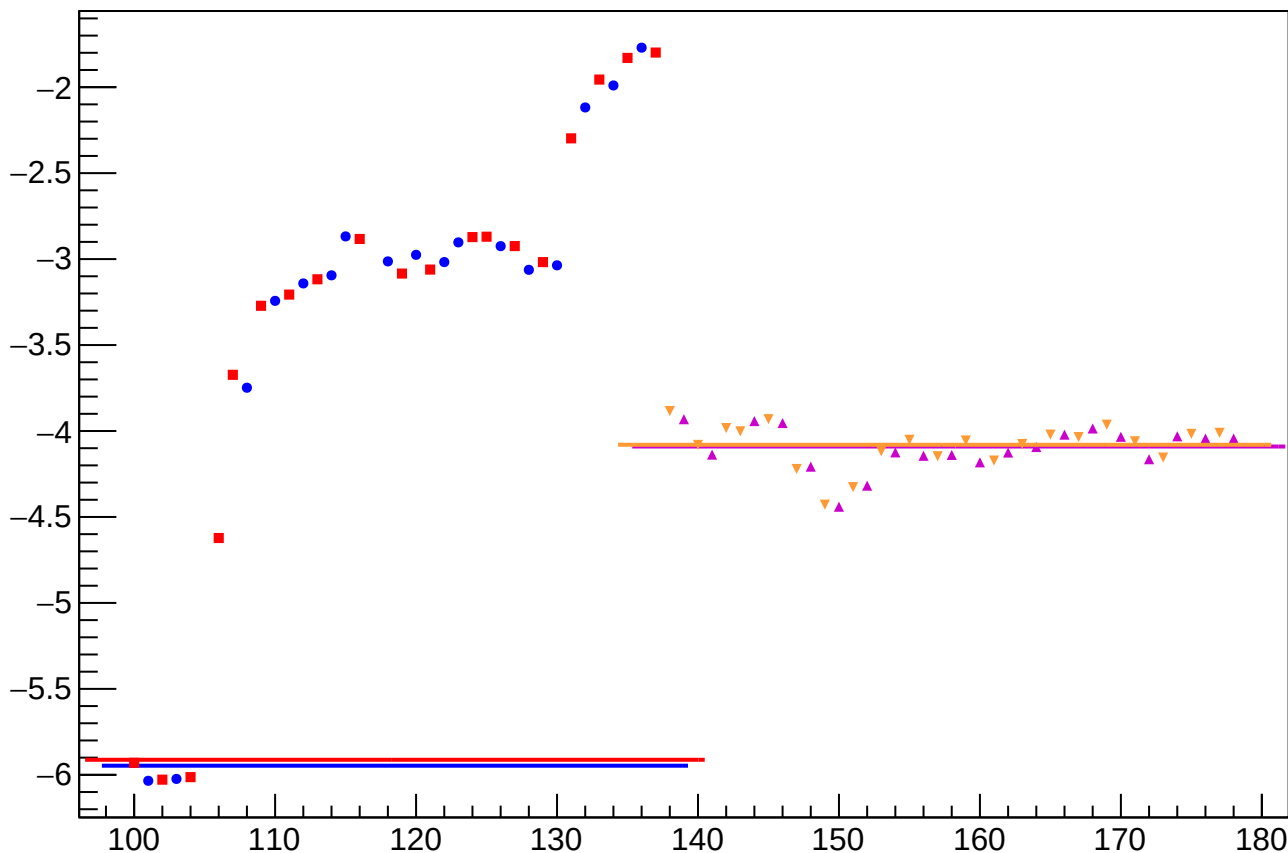
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2314609.4/36

Out: 0.006+/-0.000 χ^2/NDF :2024395.6/39

All: 0.006+/-0.000 χ^2/NDF : 4346803.5/76

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.080+/-0.000 χ^2/NDF : 35382873.9/20

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.090+/-0.000 χ^2/NDF : 33590092.1/19

Left: -4.087+/-0.000 χ^2/NDF : 69118373.0/40

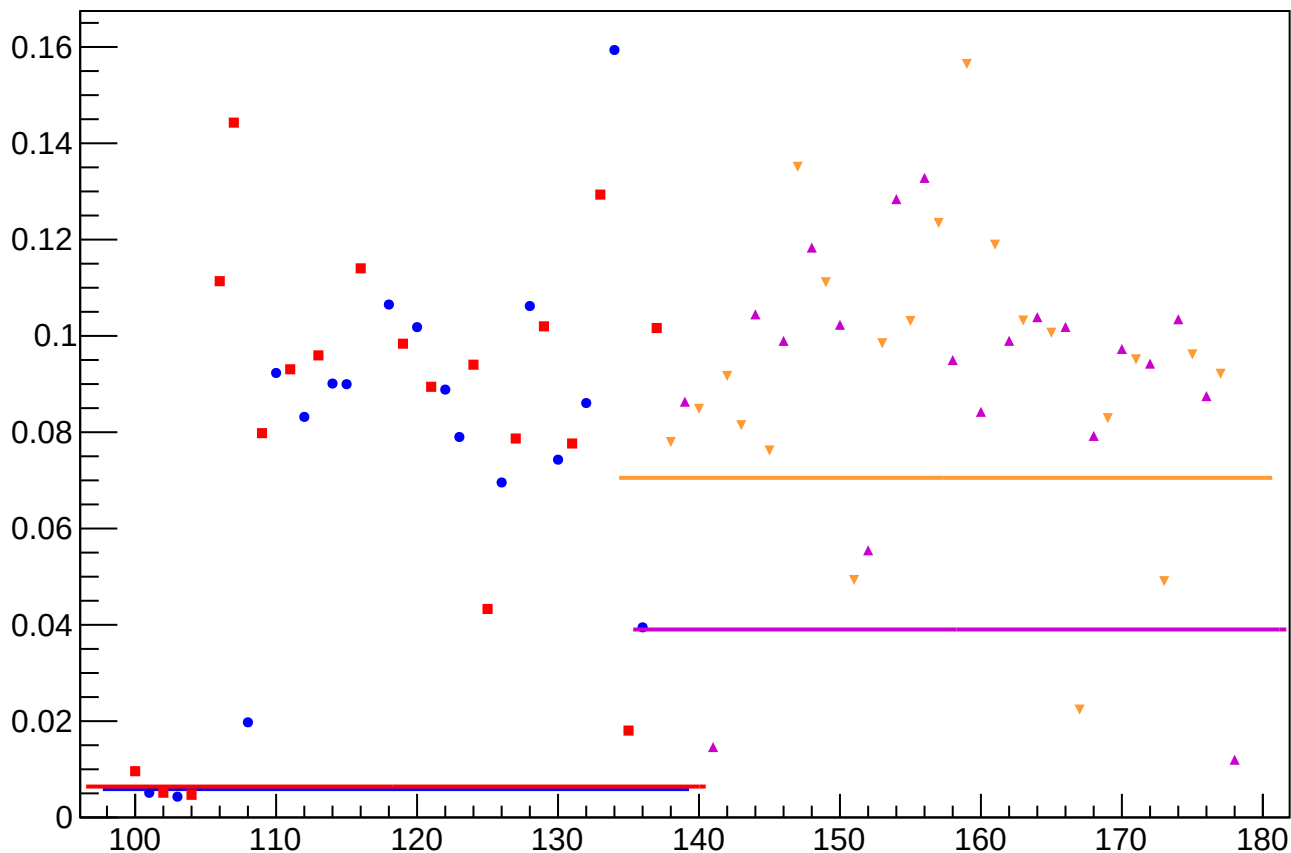
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.801+/-0.000 χ^2/NDF : 26000032549.2/36

Out: -5.814+/-0.000 χ^2/NDF : 21527095031.5/39

All: -5.807+/-0.000 χ^2/NDF : 47530811191.4/79

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.071 $\pm$ 0.000 χ^2/NDF : 4916252.8/20

Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 8498586.9/18

Left In: 0.039 $\pm$ 0.000 χ^2/NDF : 12113635.4/19

Left: 0.050 $\pm$ 0.000 χ^2/NDF : 19822749.4/40

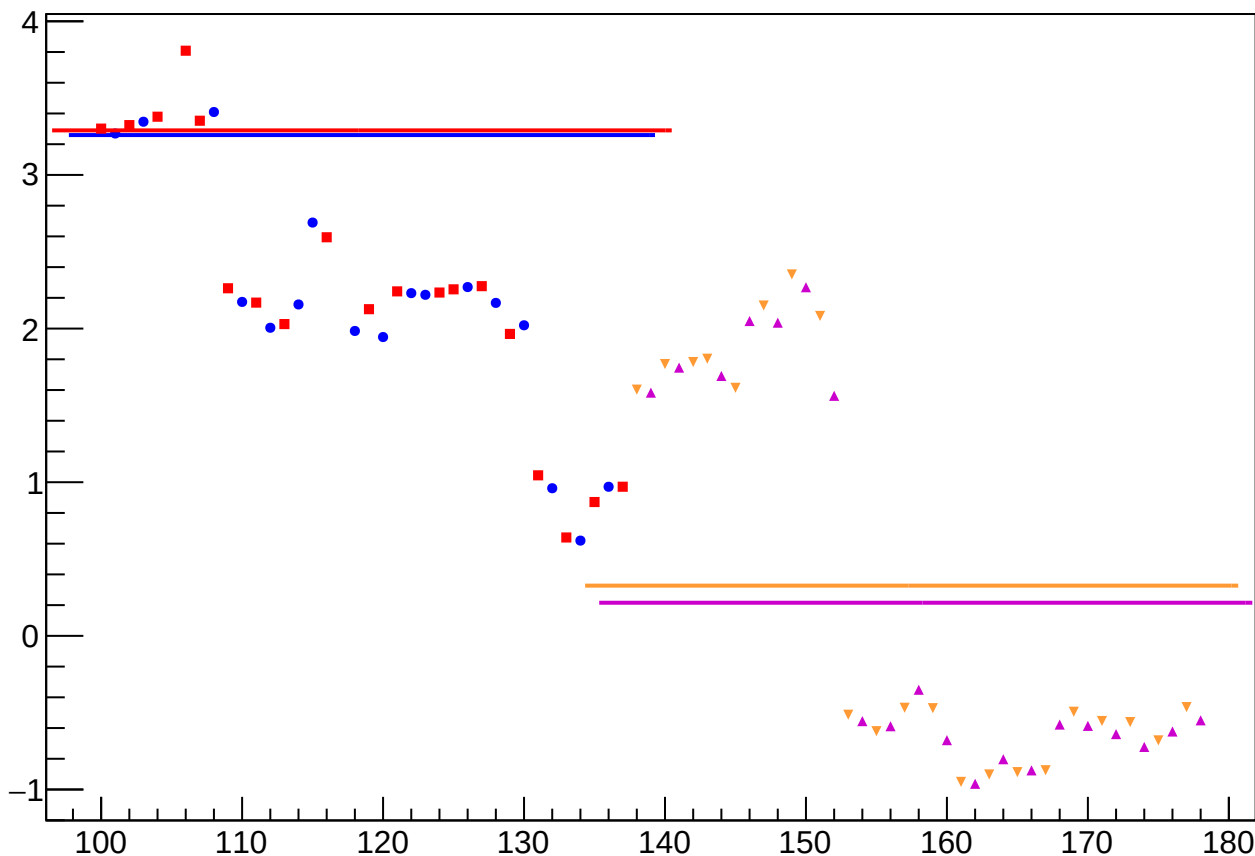
Right: 0.006 $\pm$ 0.000 χ^2/NDF : 16444798.1/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 28205703.2/36

Out: 0.010 $\pm$ 0.000 χ^2/NDF : 30242912.2/39

All: 0.009 $\pm$ 0.000 χ^2/NDF : 58533014.1/76

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 0.327+/-0.000 χ^2/NDF : 2988460374.1/20

Right Out: 3.290+/-0.000 χ^2/NDF : 3262231575.5/18

Left In: 0.216+/-0.000 χ^2/NDF : 3059397868.9/19

Left: 0.264+/-0.000 χ^2/NDF : 6060690020.8/40

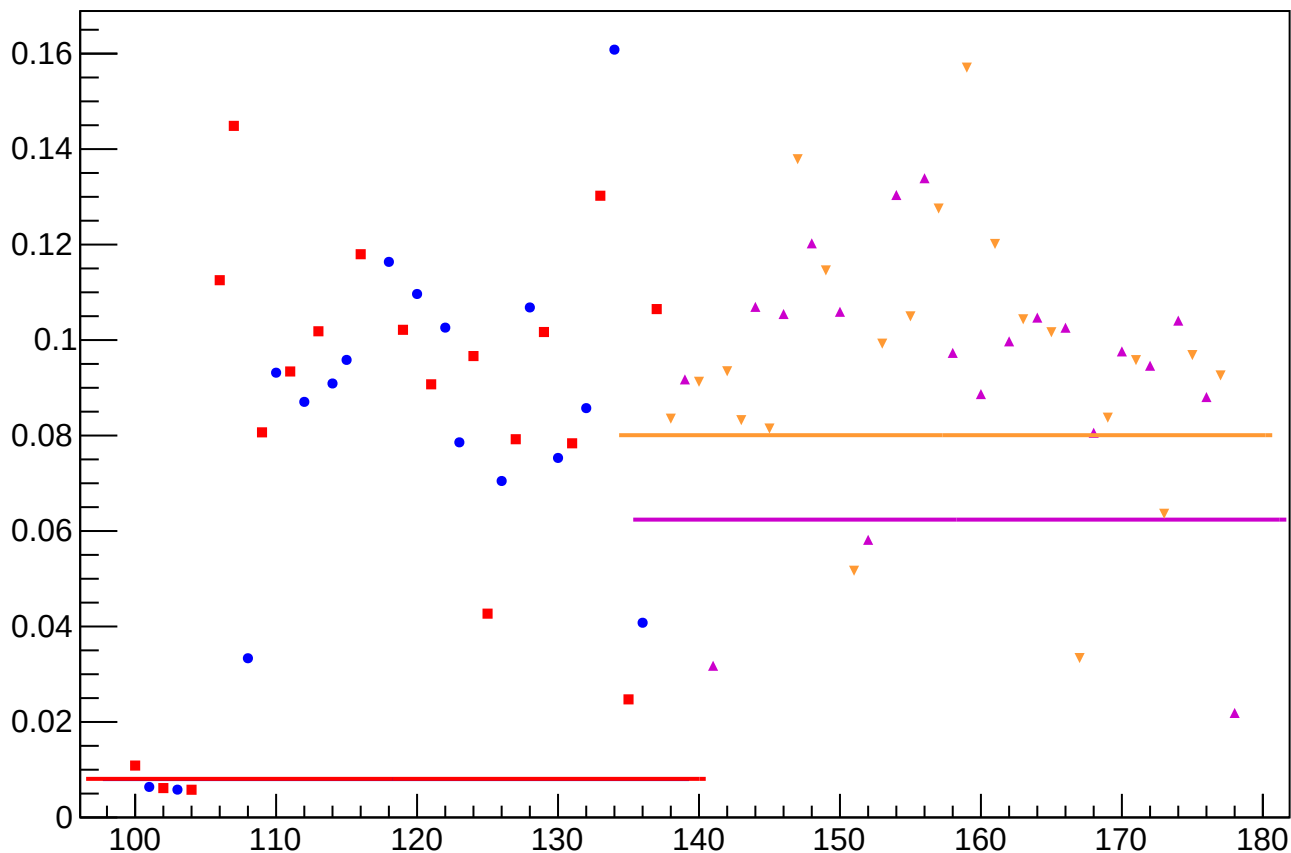
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.029+/-0.000 χ^2/NDF : 26181839040.7/36

Out: 3.097+/-0.000 χ^2/NDF : 21401498971.1/39

All: 3.061+/-0.000 χ^2/NDF : 47652022934.9/77

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7742048.1/16

Left Out: 0.080 $\pm$ 0.000 χ^2 /NDF:3140256.3/20

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8309426.5/18

Left In: 0.062 $\pm$ 0.000 χ^2 /NDF:6589296.7/19

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 10377405.2/40

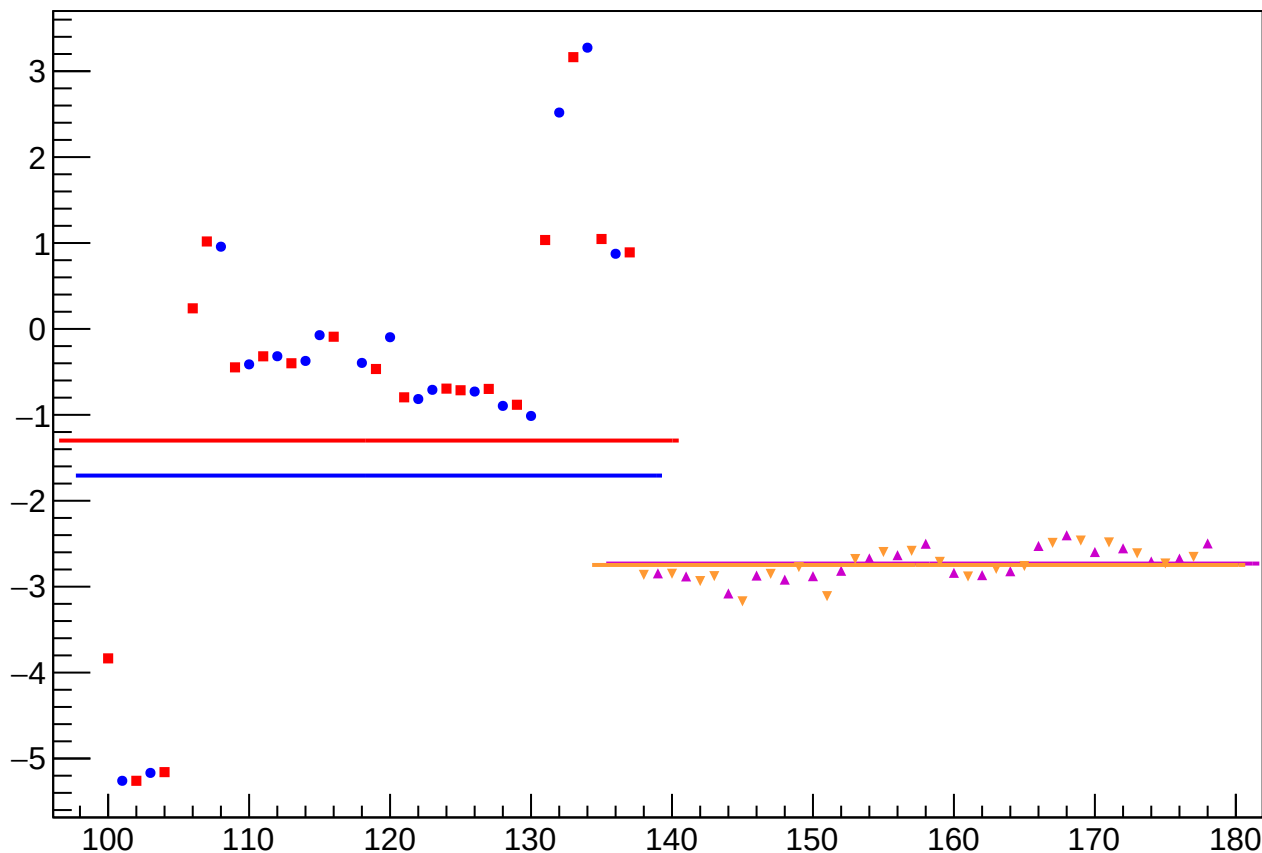
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16051528.4/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:27210315.1/36

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:29335374.6/39

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 56557003.3/76

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.747+/-0.000 χ^2/NDF : 8762493798.1/20

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.731+/-0.000 χ^2/NDF : 7858484223.3/19

Left: -2.739+/-0.000 χ^2/NDF : 16653559167.0/40

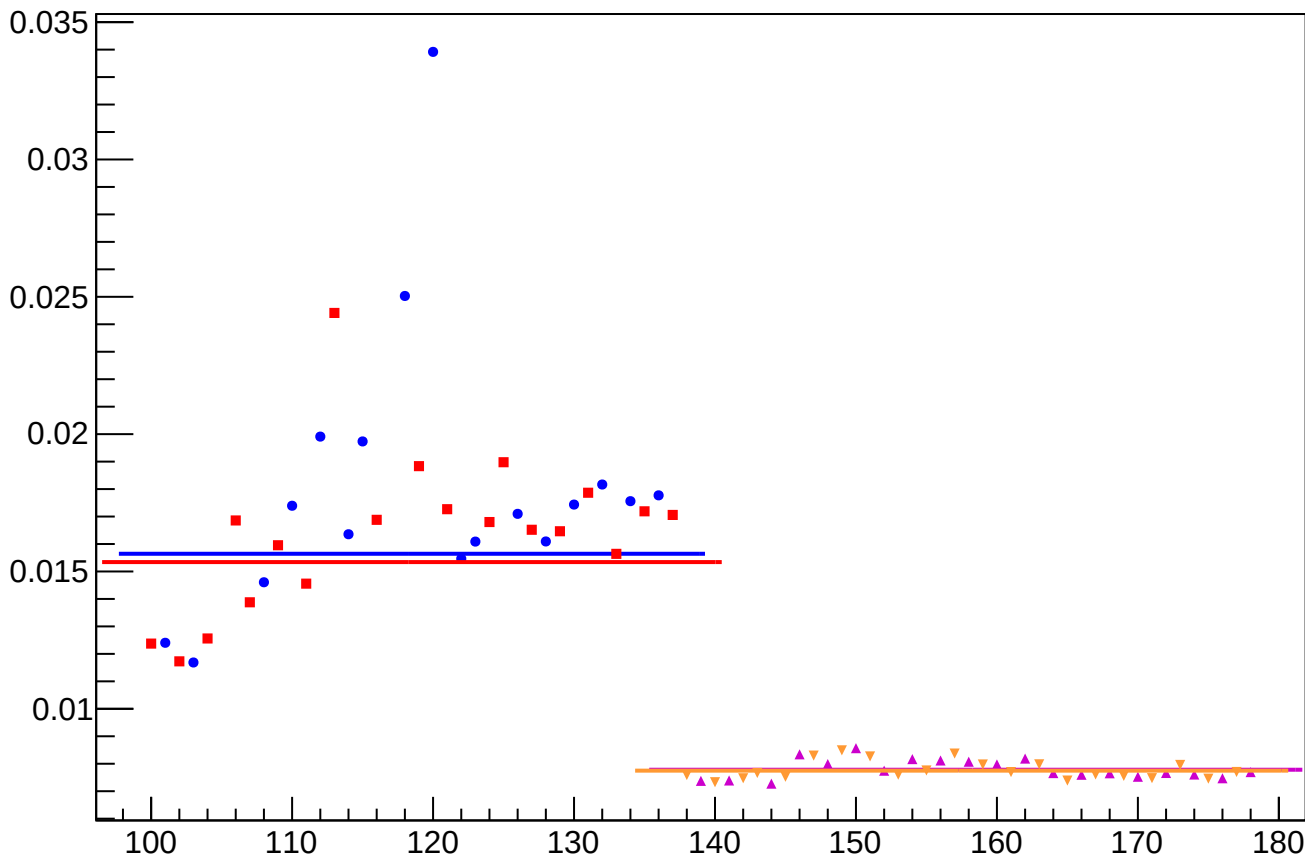
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.644+/-0.000 χ^2/NDF : 195956195233.2/36

Out: -2.611+/-0.000 χ^2/NDF : 236792174902.6/39

All: -2.627+/-0.000 χ^2/NDF : 432898176352.5

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF : 52947.5/20

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 58128.5/19

Left: 0.008+/-0.000 χ^2/NDF : 111348.7/40

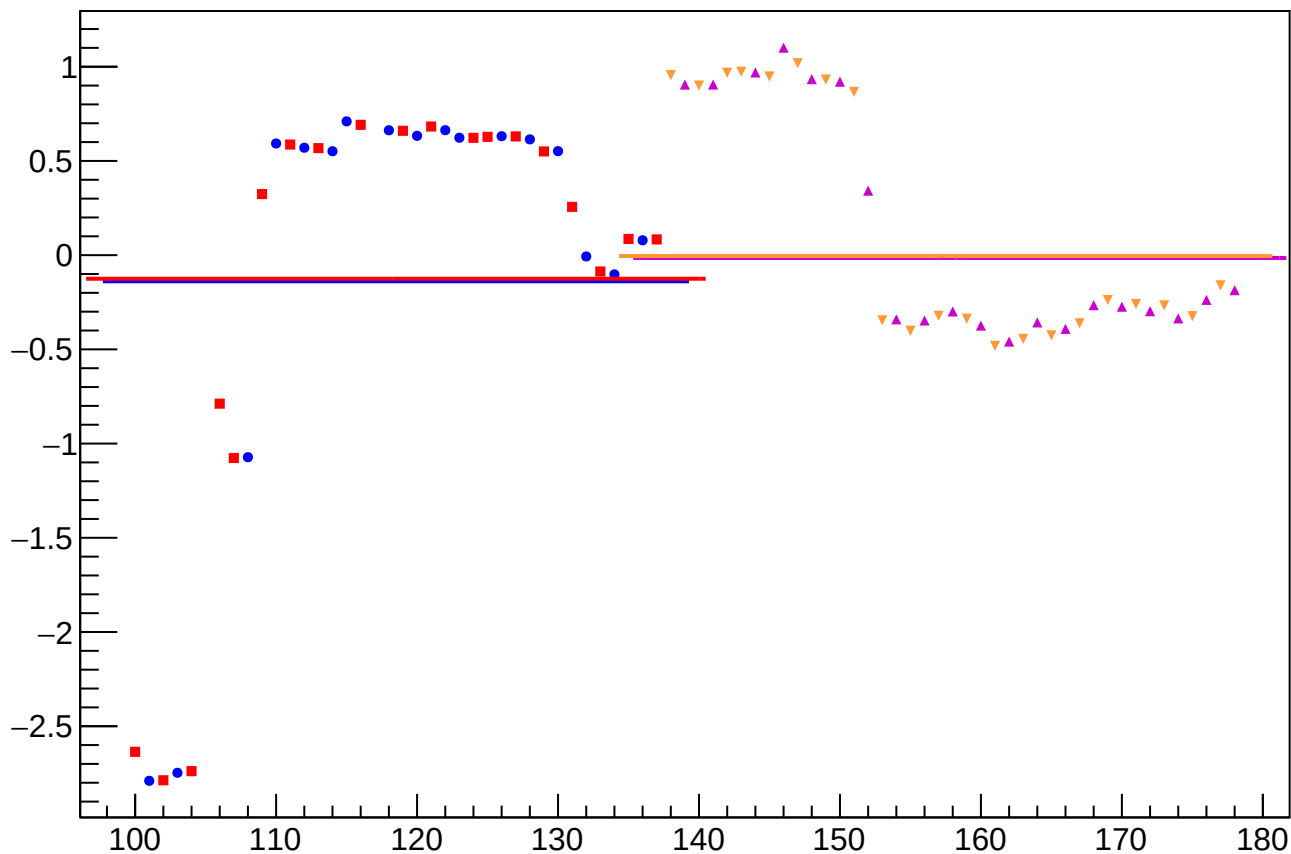
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.008+/-0.000 χ^2/NDF : 3226533.1/36

Out: 0.008+/-0.000 χ^2/NDF : 3156544.5/39

All: 0.008+/-0.000 χ^2/NDF : 6383121.6/76

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: -0.010+/-0.000

χ^2/NDF : 244096310508.2/40

Left Out: -0.005+/-0.000

χ^2/NDF : 131574116622.0/20

Right: -0.132+/-0.000

χ^2/NDF : 1476596319761.2/3

Right Out: -0.125+/-0.000

χ^2/NDF : 761496762534.7/18

In: -0.083+/-0.000

χ^2/NDF : 831062281570.7/36

Out: -0.074+/-0.000

χ^2/NDF : 896550769093.6/39

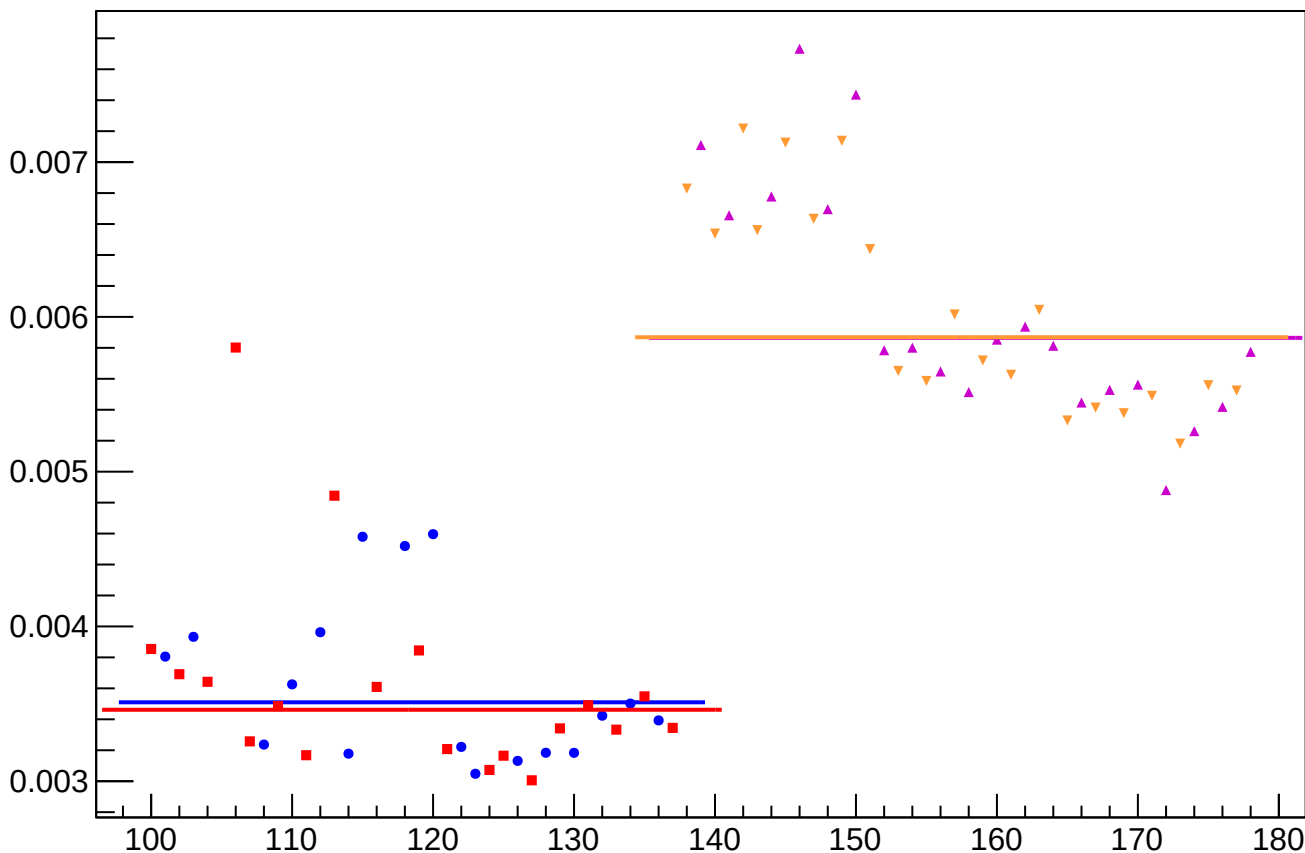
Left In: -0.015+/-0.000

χ^2/NDF : 112500288844.2/19

All: -0.078+/-0.000

χ^2/NDF : 1727658637031

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 :281316.3/20

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF :362815.6/19

Left: 0.006+/-0.000 χ^2/NDF : 644138.2/40

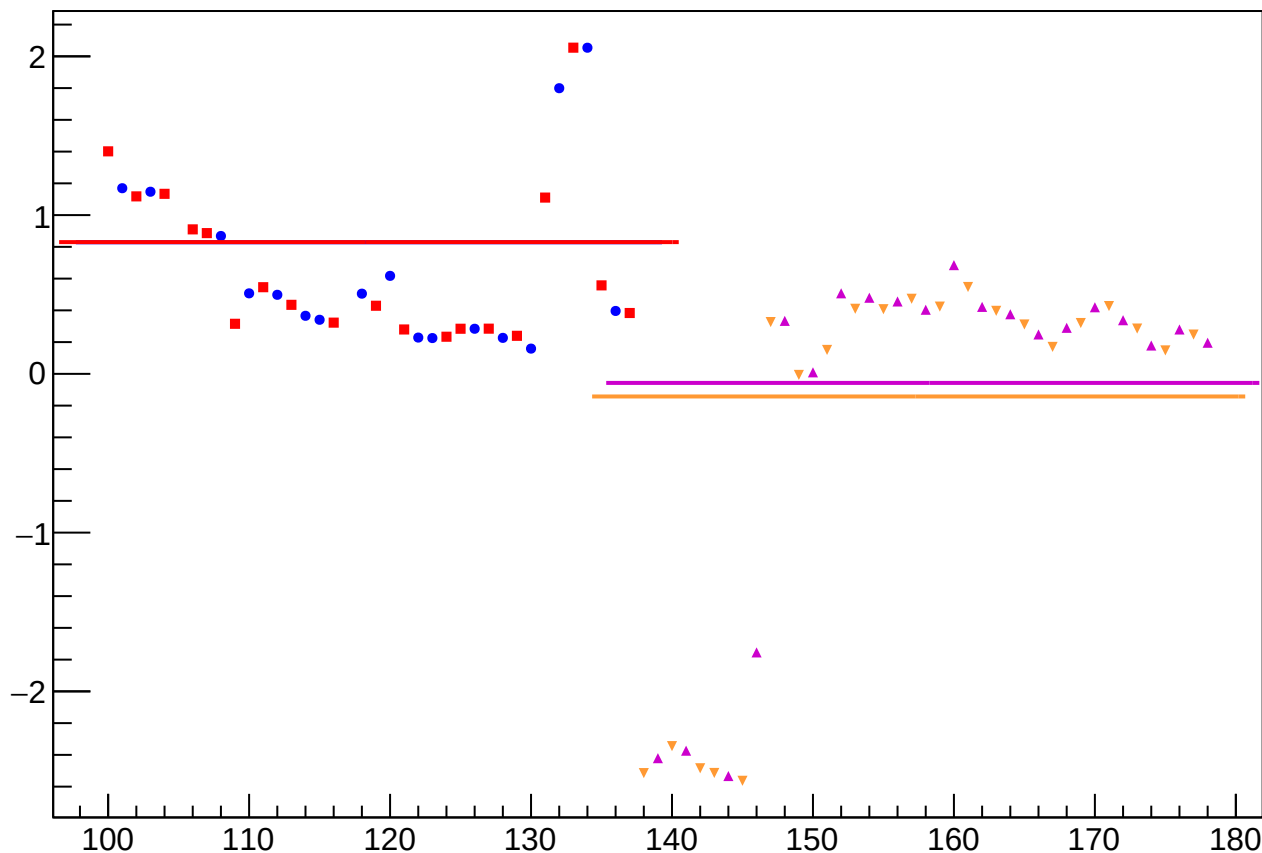
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.005+/-0.000 χ^2/NDF :3072184.3/36

Out: 0.004+/-0.000 χ^2/NDF :3272369.2/39

All: 0.005+/-0.000 χ^2/NDF : 6349397.5/76

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.142+/-0.000 χ^2/NDF : 482113050694.6/20

Right Out: 0.830+/-0.000 χ^2/NDF : 33335665437.8/18

Left In: -0.057+/-0.000 χ^2/NDF : 411320066311.7/19

Left: -0.100+/-0.000 χ^2/NDF : 895042351128.7/40

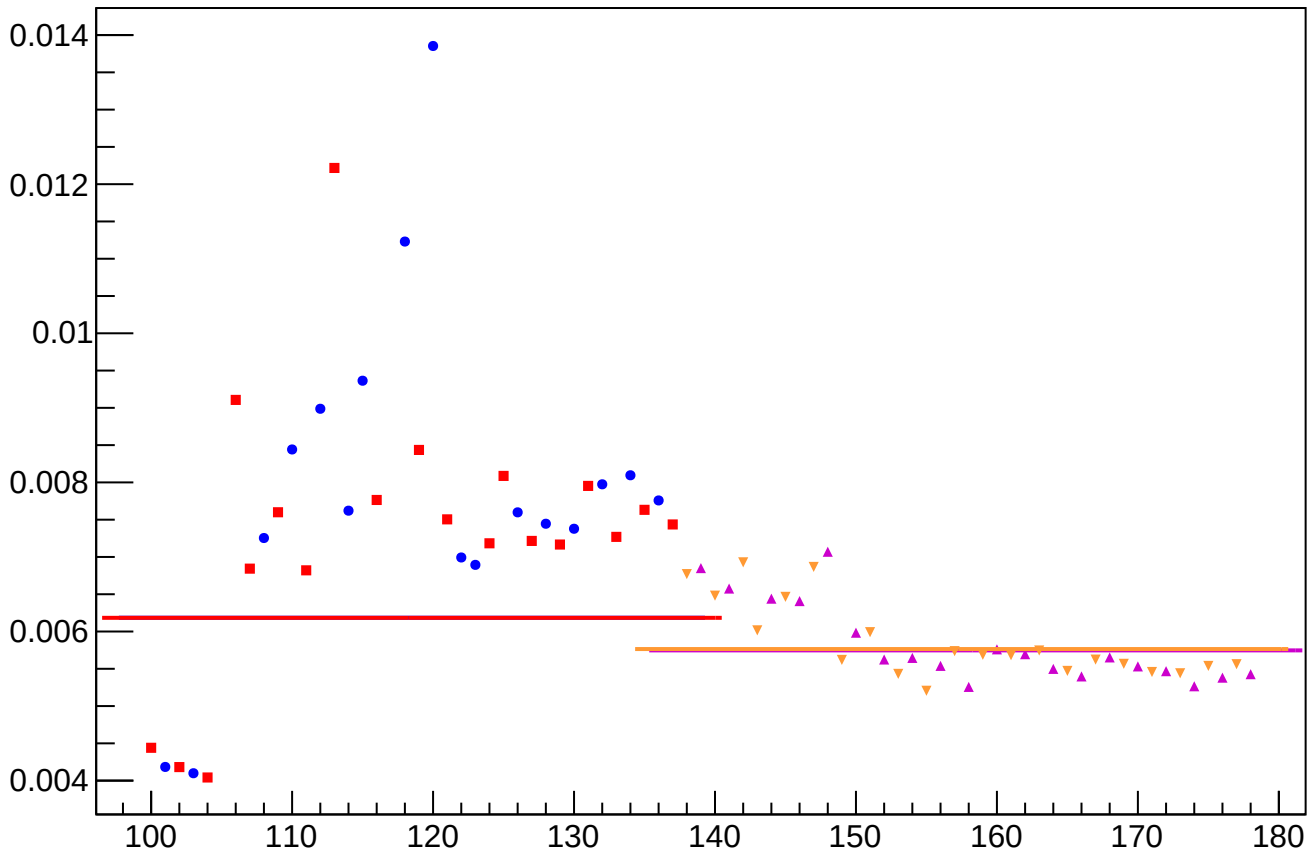
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.156+/-0.000 χ^2/NDF : 525885252834.5/36

Out: 0.106+/-0.000 χ^2/NDF : 622372815146.8/39

All: 0.131+/-0.000 χ^2/NDF : 1148994712058.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1228962.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :171209.6/20

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF :200978.8/19

Left: 0.006+/-0.000 χ^2/NDF : 372328.7/40

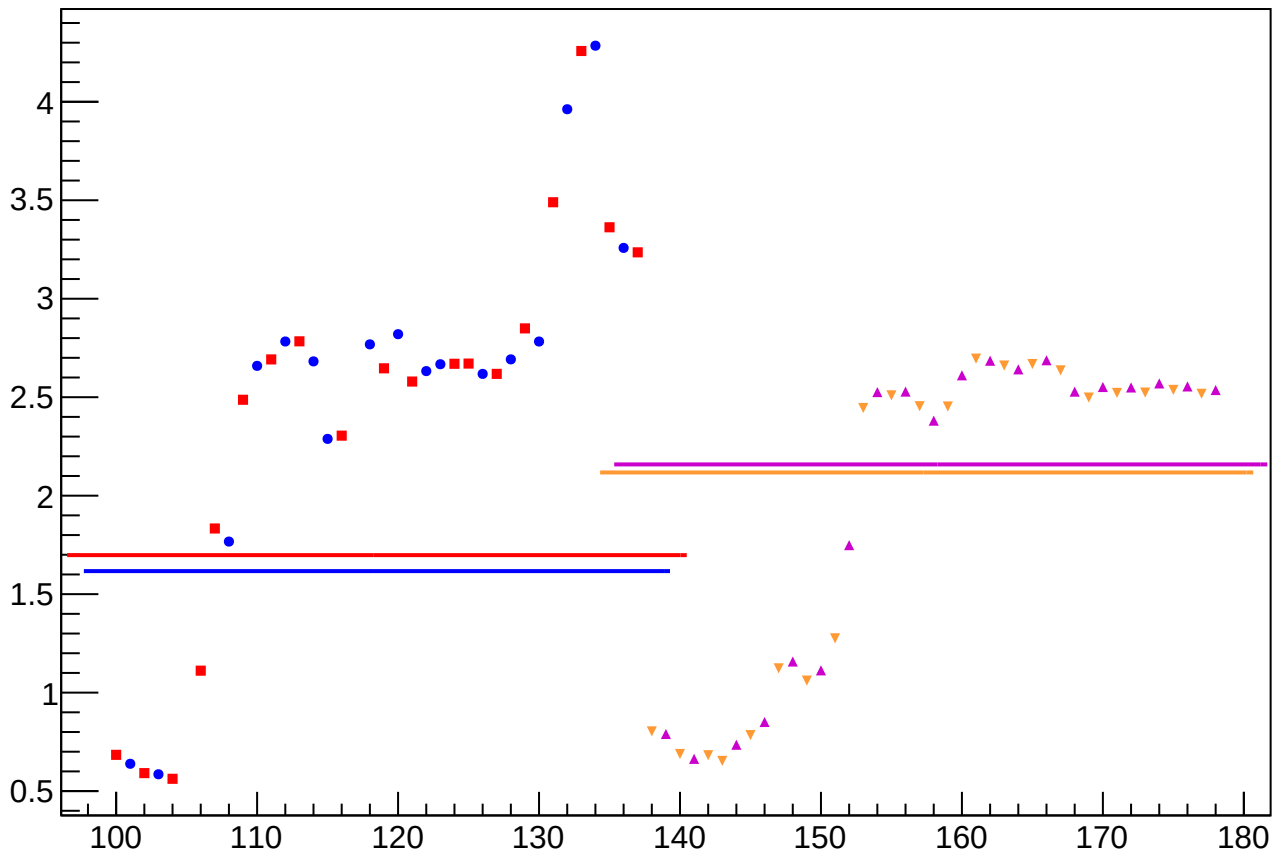
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1470416.8/36

Out: 0.006+/-0.000 χ^2/NDF :1237730.2/39

All: 0.006+/-0.000 χ^2/NDF : 2708370.6/76

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.118 $\pm$ 0.000 χ^2/NDF : 277463980888.8/20

Right Out: 1.698 $\pm$ 0.000 χ^2/NDF : 227408345801.7/18

Left In: 2.159 $\pm$ 0.000 χ^2/NDF : 245723179883.4/19

Left: 2.138 $\pm$ 0.000 χ^2/NDF : 523612076199.3/40

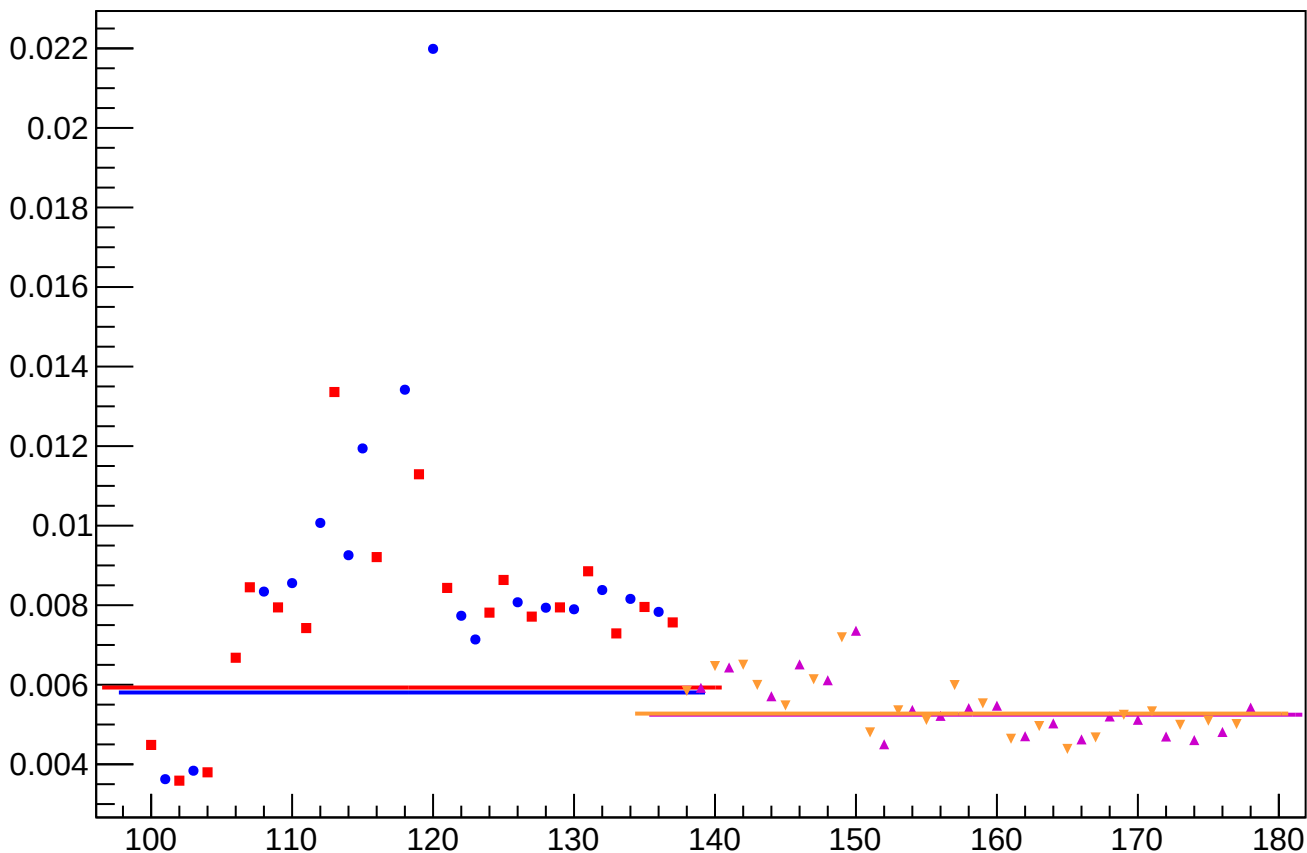
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 430781224378.3/35

In: 2.040 $\pm$ 0.000 χ^2/NDF : 481407817160.2/36

Out: 2.021 $\pm$ 0.000 χ^2/NDF : 525522380111.4/39

All: 2.030 $\pm$ 0.000 χ^2/NDF : 1007043262658.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 374501.1/20

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF : 417933.8/19

Left: 0.005+/-0.000 χ^2/NDF : 792829.1/40

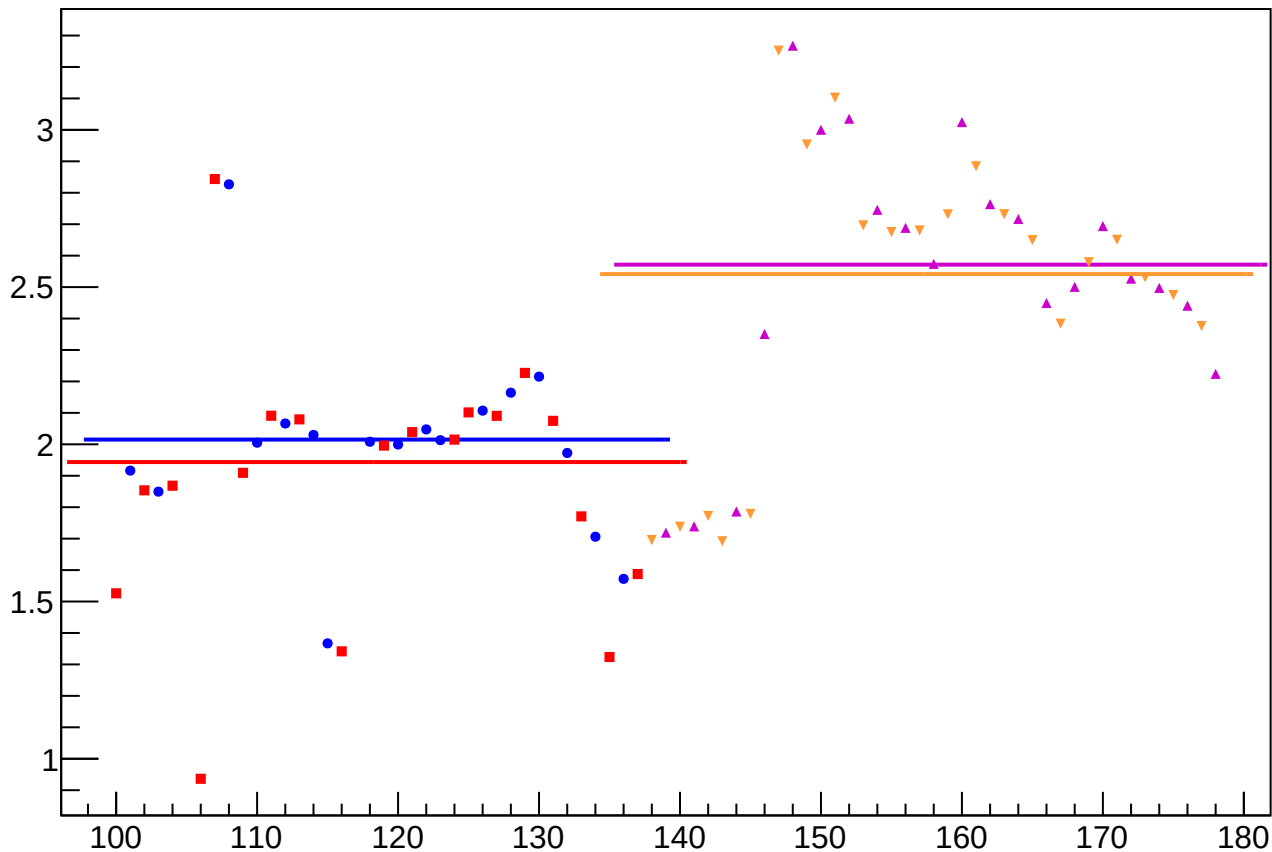
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF : 2405666.5/36

Out: 0.005+/-0.000 χ^2/NDF : 2160831.3/39

All: 0.005+/-0.000 χ^2/NDF : 4568570.5/76

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.541+/-0.000 χ^2/NDF : 49273317202.3/20

Right Out: 1.944+/-0.000 χ^2/NDF : 21427099579.0/18

Left In: 2.571+/-0.000 χ^2/NDF : 44006151519.5/19

Left: 2.556+/-0.000 χ^2/NDF : 93403984215.5/40

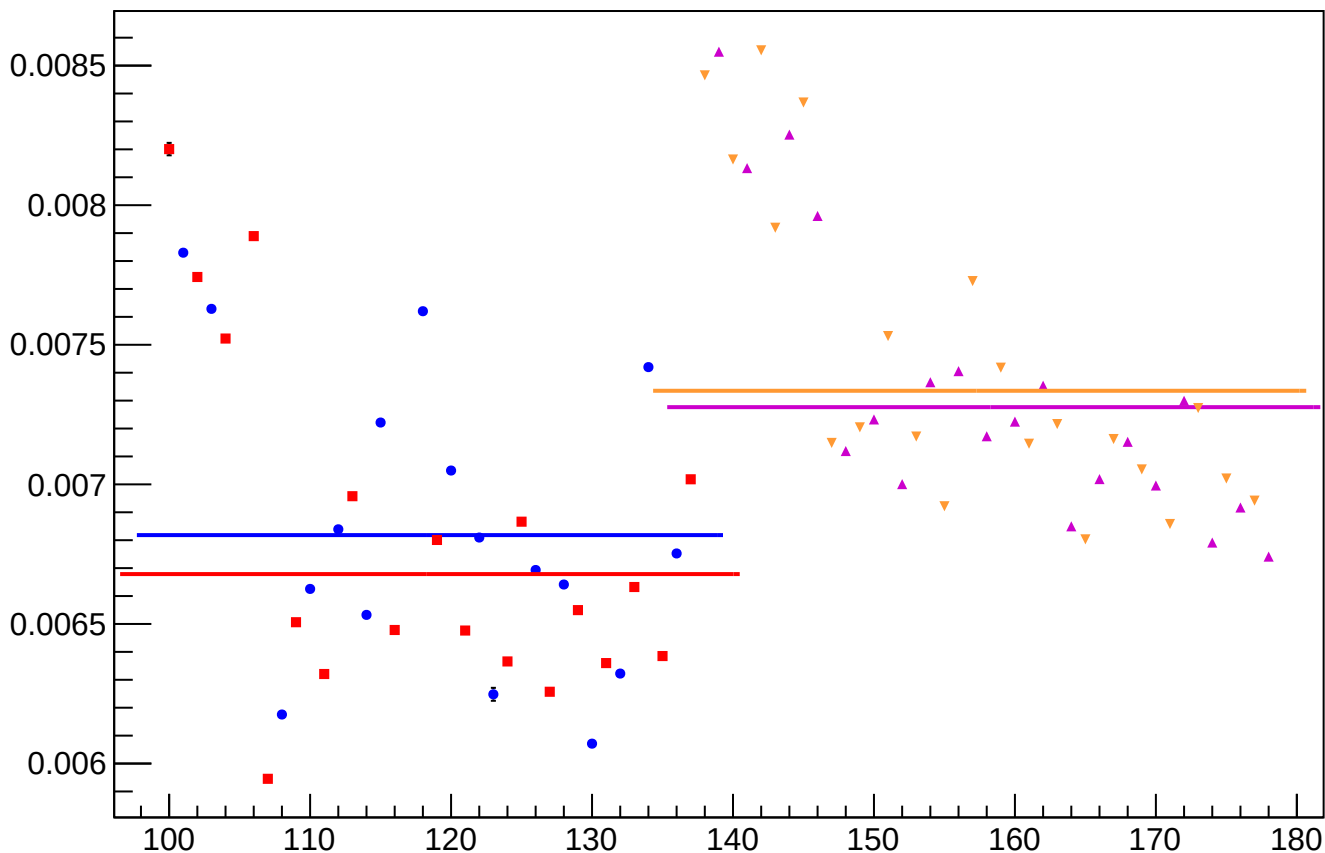
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.388+/-0.000 χ^2/NDF : 84638628607.1/36

Out: 2.330+/-0.000 χ^2/NDF : 105863936078.0/39

All: 2.359+/-0.000 χ^2/NDF : 191218711999.1

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 75813.9/16

Left Out: 0.007+/-0.000 χ^2/NDF :124754.9/20

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF :115569.5/19

Left: 0.007+/-0.000 χ^2/NDF : 241283.9/40

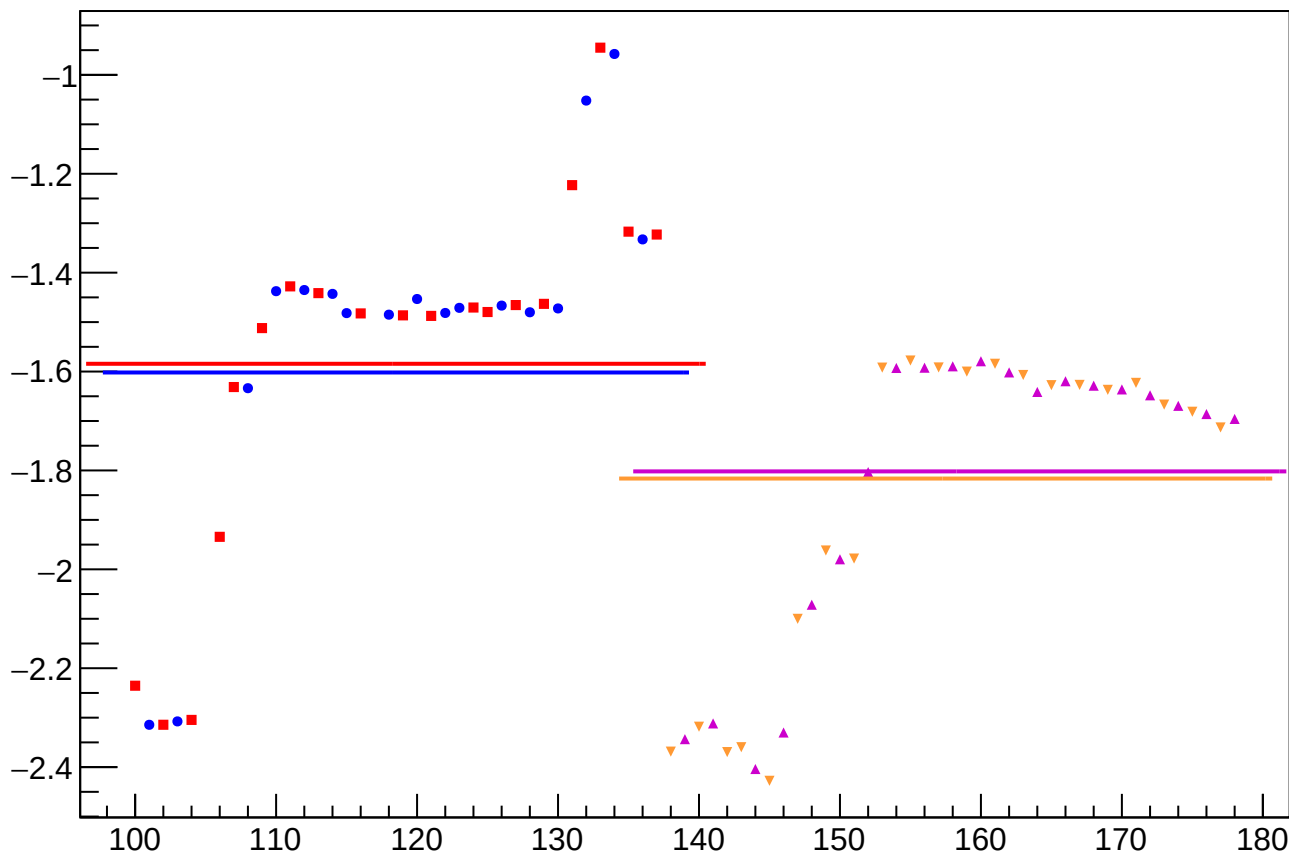
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :229953.2/36

Out: 0.007+/-0.000 χ^2/NDF :285306.8/39

All: 0.007+/-0.000 χ^2/NDF : 515476.0/76

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.816+/-0.000 χ^2/NDF : 175965432182.6/20

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.802+/-0.000 χ^2/NDF : 157240285727.9/19

Left: -1.809+/-0.000 χ^2/NDF : 333414613329.7/40

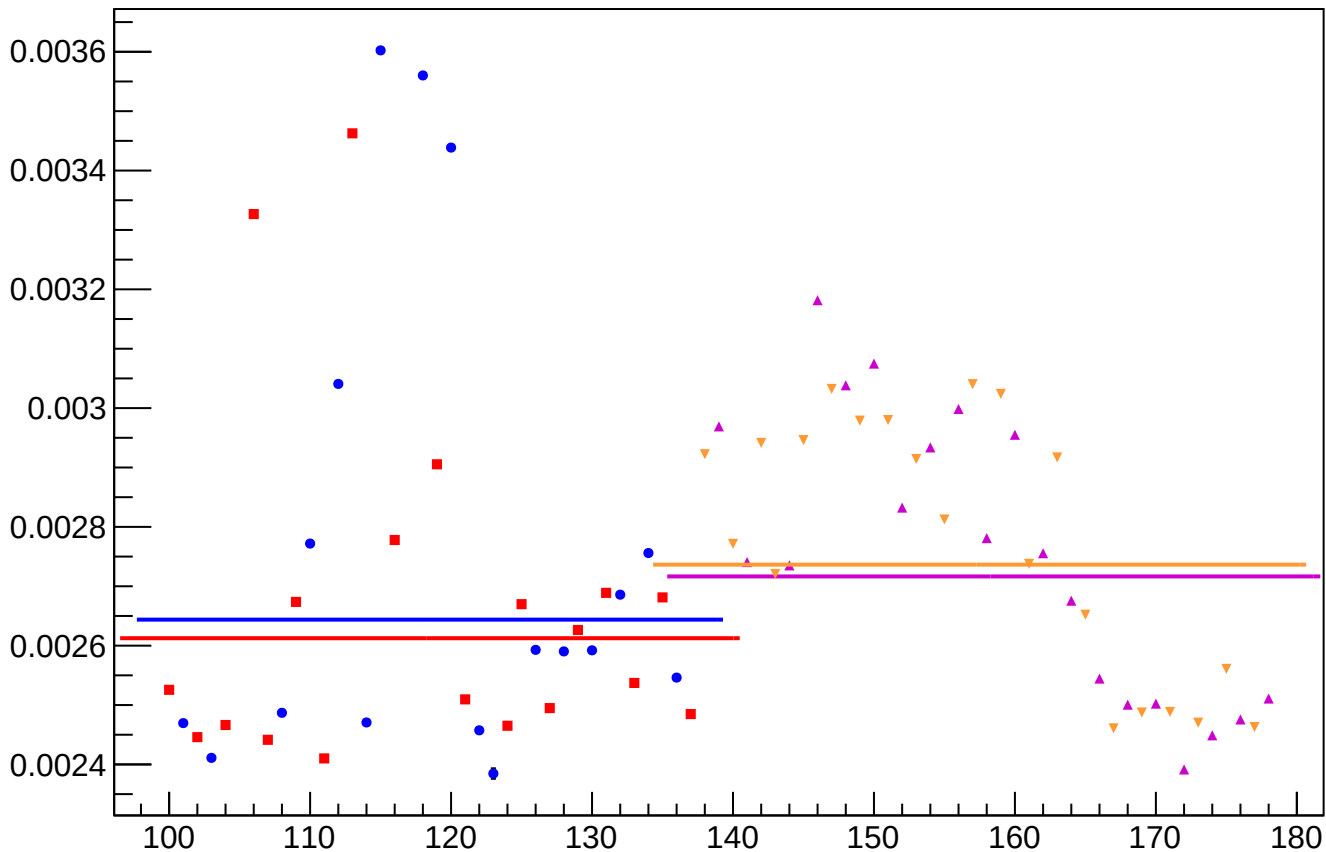
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.740+/-0.000 χ^2/NDF : 322241745313.3/36

Out: -1.740+/-0.000 χ^2/NDF : 354908999064.8/39

All: -1.740+/-0.000 χ^2/NDF : 677150799032.9

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :185561.4/20

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :210791.5/19

Left: 0.003+/-0.000 χ^2/NDF : 397139.5/40

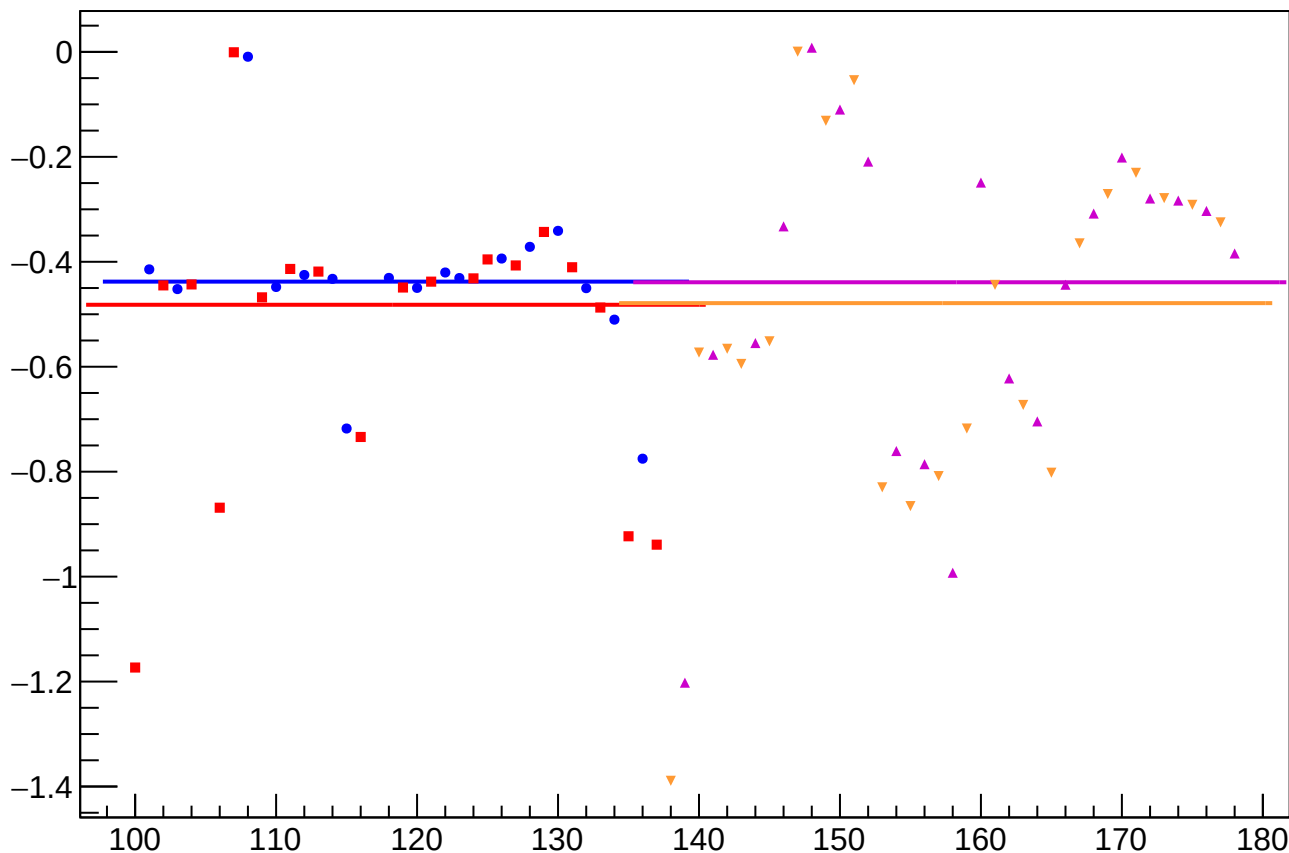
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :368731.5/36

Out: 0.003+/-0.000 χ^2/NDF :311000.2/39

All: 0.003+/-0.000 χ^2/NDF : 679739.9/76

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.479+/-0.000 χ^2/NDF : 9604143565.4/20

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.439+/-0.000 χ^2/NDF : 8281185415.0/19

Left: -0.459+/-0.000 χ^2/NDF : 17964088244.9/40

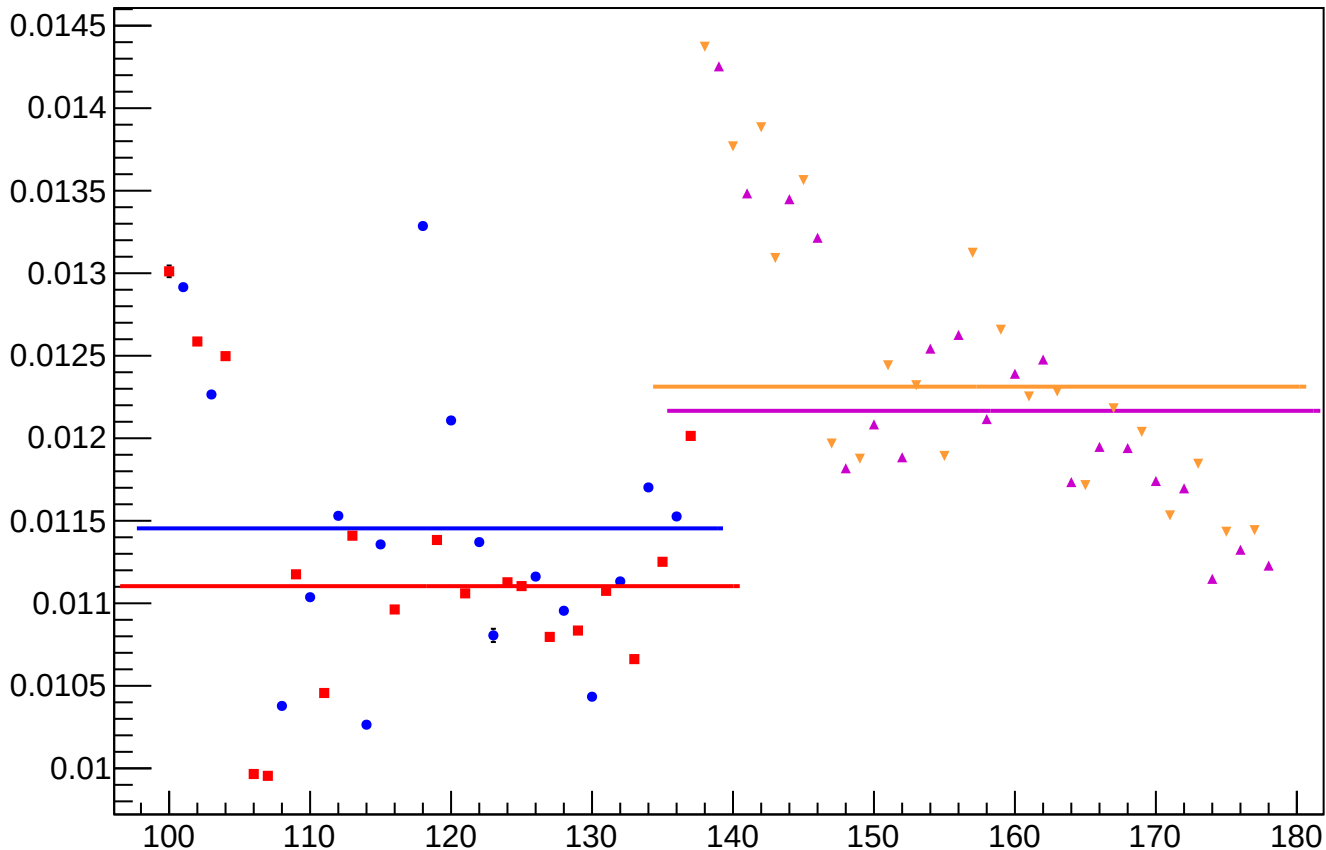
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.439+/-0.000 χ^2/NDF : 9743689314.9/36

Out: -0.480+/-0.000 χ^2/NDF : 12299117753.4/39

All: -0.460+/-0.000 χ^2/NDF : 22172737164.0/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.012+/-0.000 χ^2/NDF :114540.3/20

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.012+/-0.000 χ^2/NDF :112242.8/19

Left: 0.012+/-0.000 χ^2/NDF : 228917.5/40

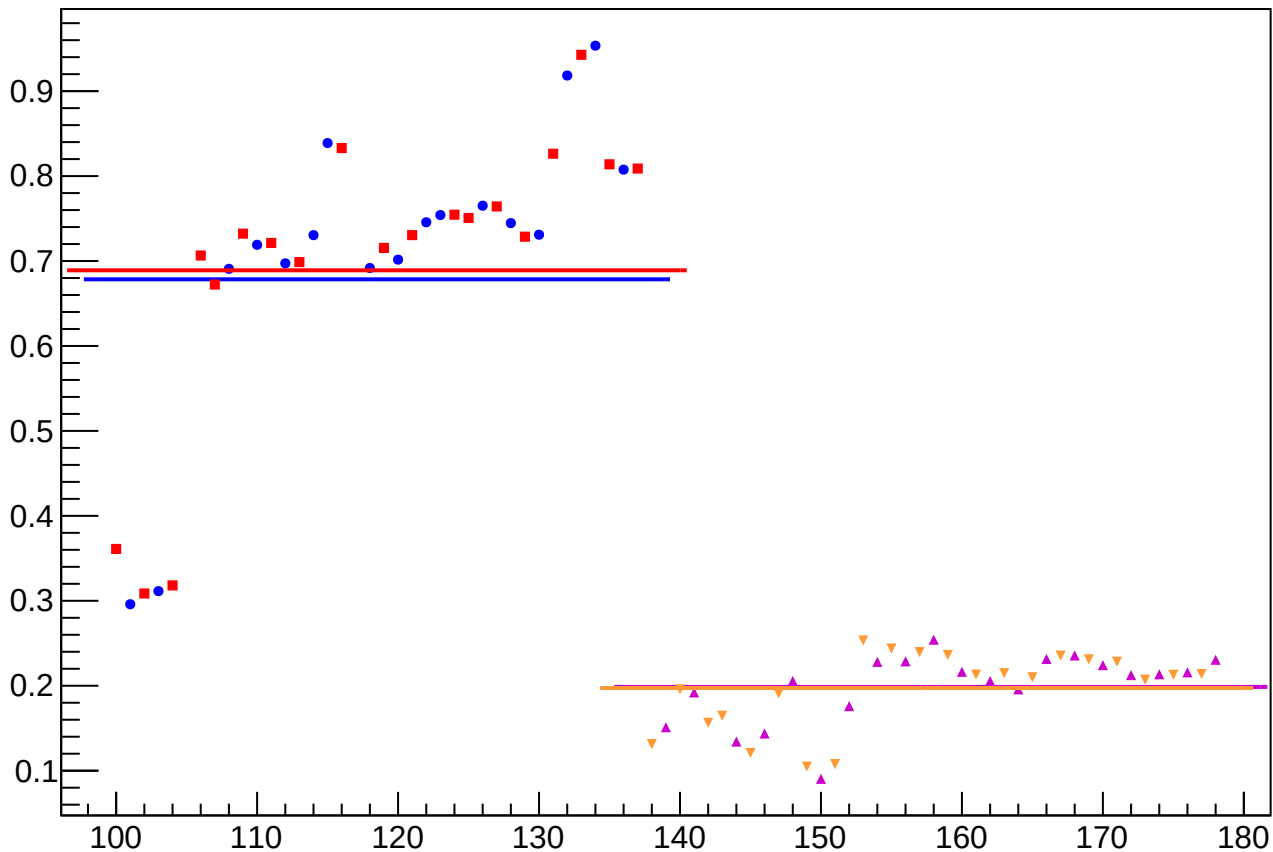
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF :210423.3/36

Out: 0.012+/-0.000 χ^2/NDF :275550.3/39

All: 0.012+/-0.000 χ^2/NDF : 486436.8/76

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.197+/-0.000 χ^2/NDF : 6644898587.1/20

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.199+/-0.000 χ^2/NDF : 5509430573.4/19

Left: 0.198+/-0.000 χ^2/NDF : 12157252668.4/40

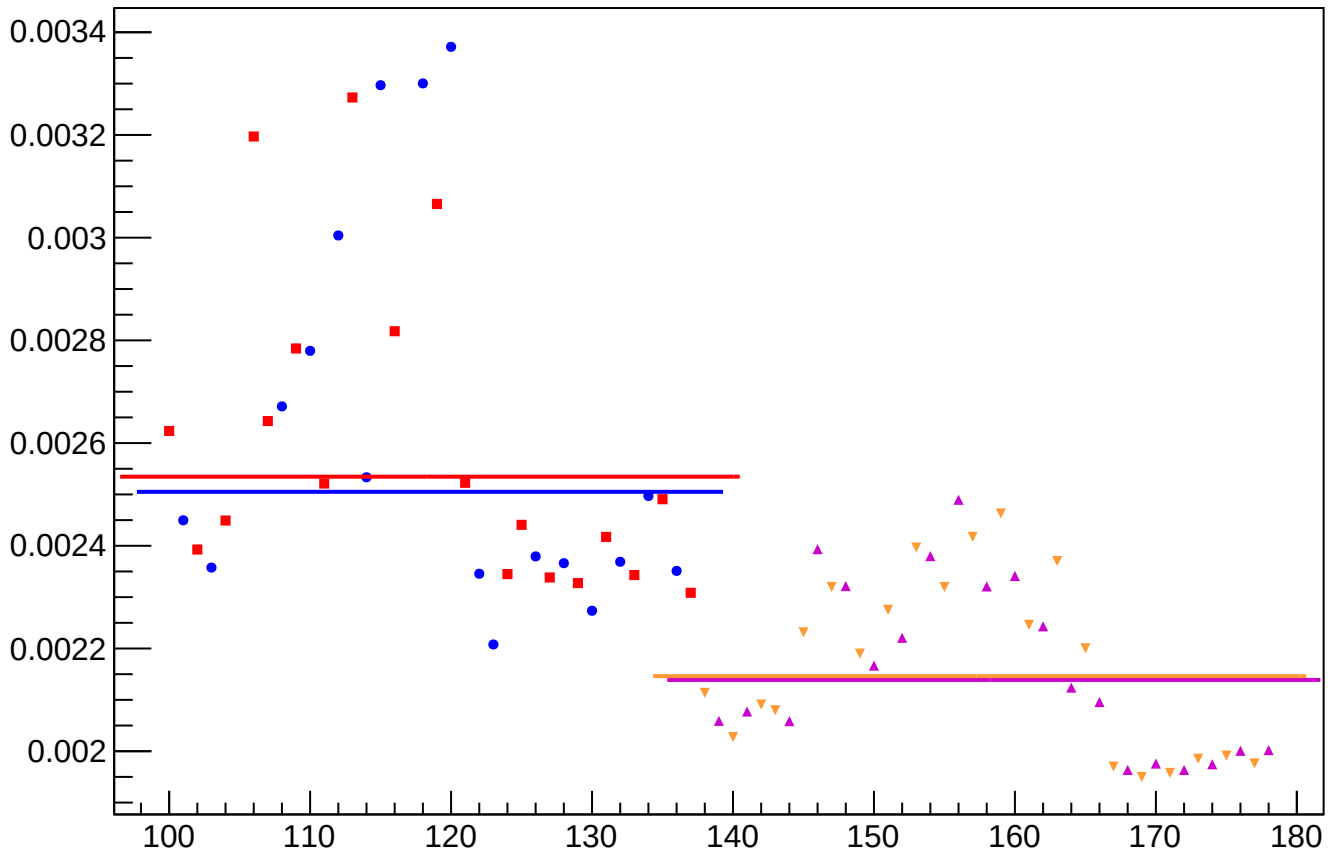
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.311+/-0.000 χ^2/NDF : 223145962590.9/36

Out: 0.313+/-0.000 χ^2/NDF : 234722746046.9/39

All: 0.312+/-0.000 χ^2/NDF : 457883402565.8

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 175524.0/16

Left Out: 0.002+/-0.000 χ^2/NDF :187444.9/20

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF :169725.6/19

Left: 0.002+/-0.000 χ^2/NDF : 357349.6/40

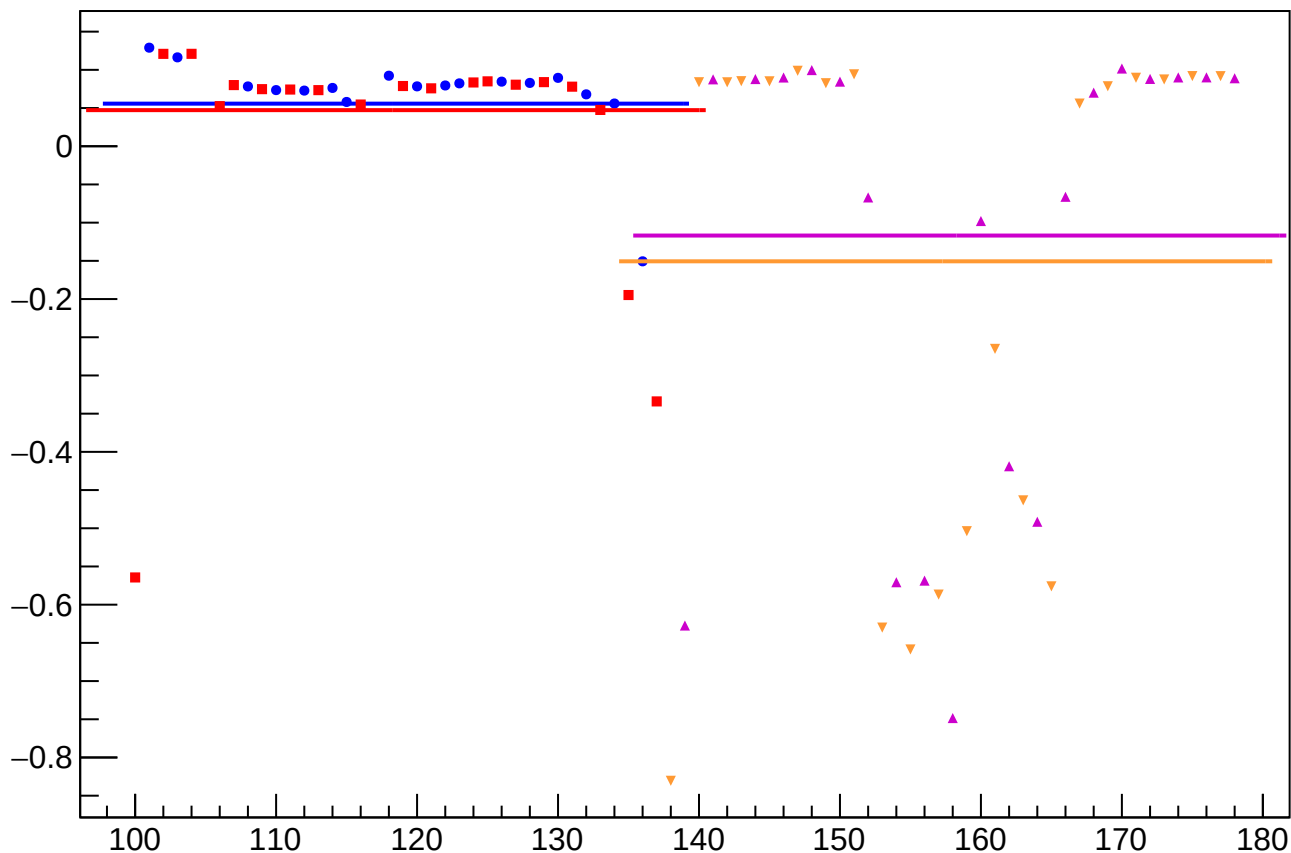
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :553939.9/36

Out: 0.002+/-0.000 χ^2/NDF :559538.7/39

All: 0.002+/-0.000 χ^2/NDF : 1114263.9/76

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 423003688.1/16

Left: -0.134+/-0.000

χ^2/NDF : 23098259008.7/40

Left Out: -0.151+/-0.000

χ^2/NDF : 12574428752.4/20

Right: 0.051+/-0.000

χ^2/NDF : 1245197626.4/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819588537.2/18

In: -0.055+/-0.000

χ^2/NDF : 12172703311.6/36

Out: -0.074+/-0.000

χ^2/NDF : 15246070244.3/39

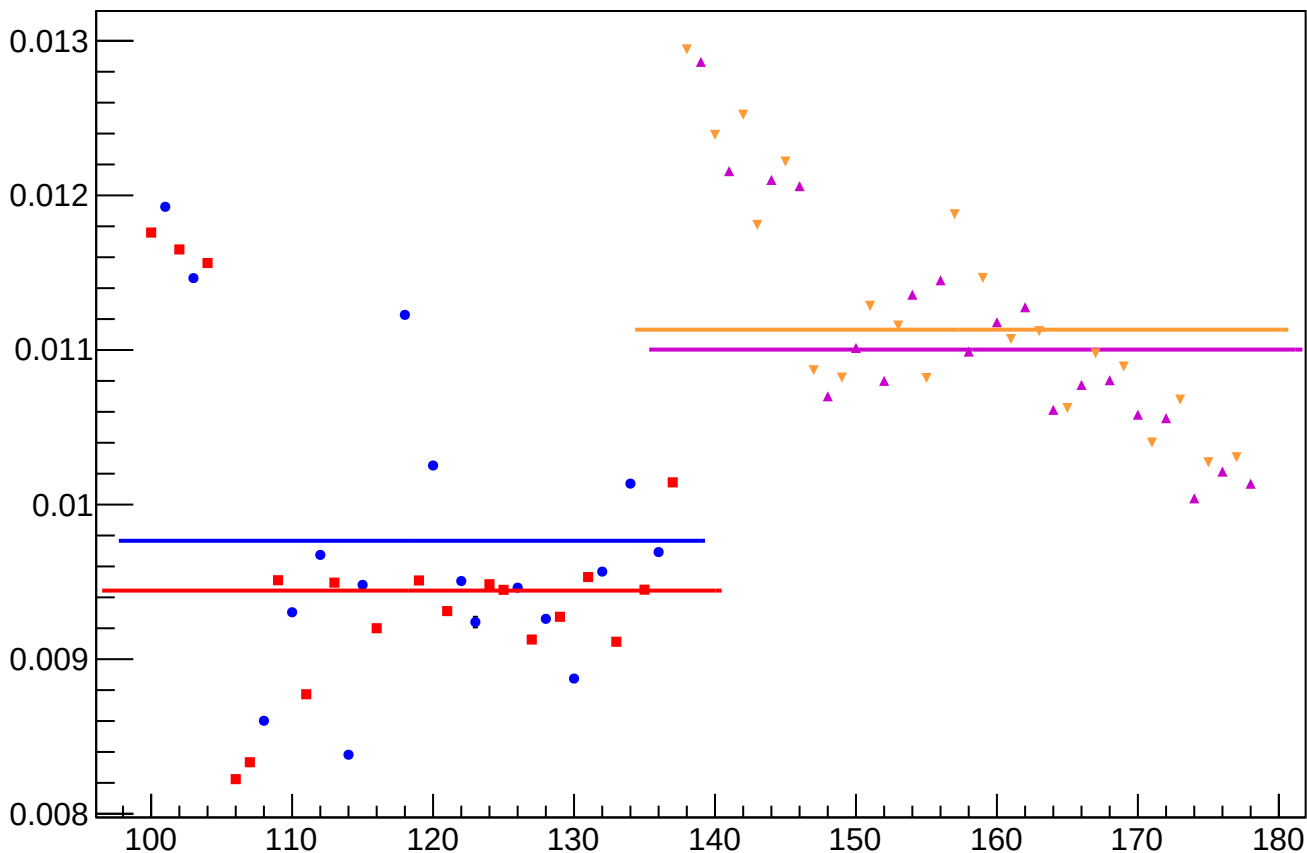
Left In: -0.117+/-0.000

χ^2/NDF : 10454505821.3/19

All: -0.065+/-0.000

χ^2/NDF : 27451190709.8/79

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116638.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :112537.8/20

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF :114254.8/19

Left: 0.011+/-0.000 χ^2/NDF : 228817.7/40

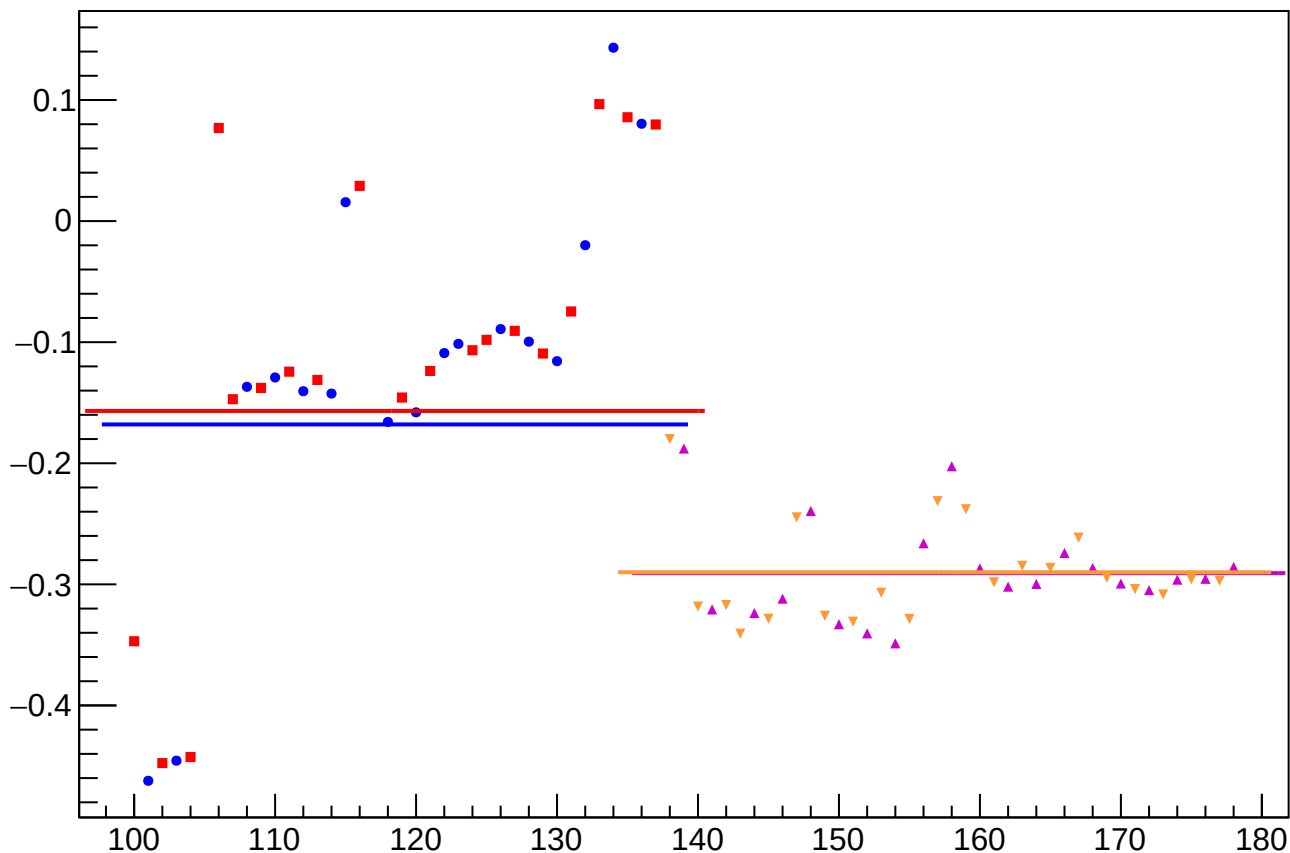
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF :363828.3/36

Out: 0.010+/-0.000 χ^2/NDF :492757.0/39

All: 0.011+/-0.000 χ^2/NDF : 858051.6/76

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12331812610.6/16

Left Out: -0.290+/-0.000 χ^2/NDF : 2856539265.8/20

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.291+/-0.000 χ^2/NDF : 3122889674.2/19

Left: -0.290+/-0.000 χ^2/NDF : 5979964340.7/40

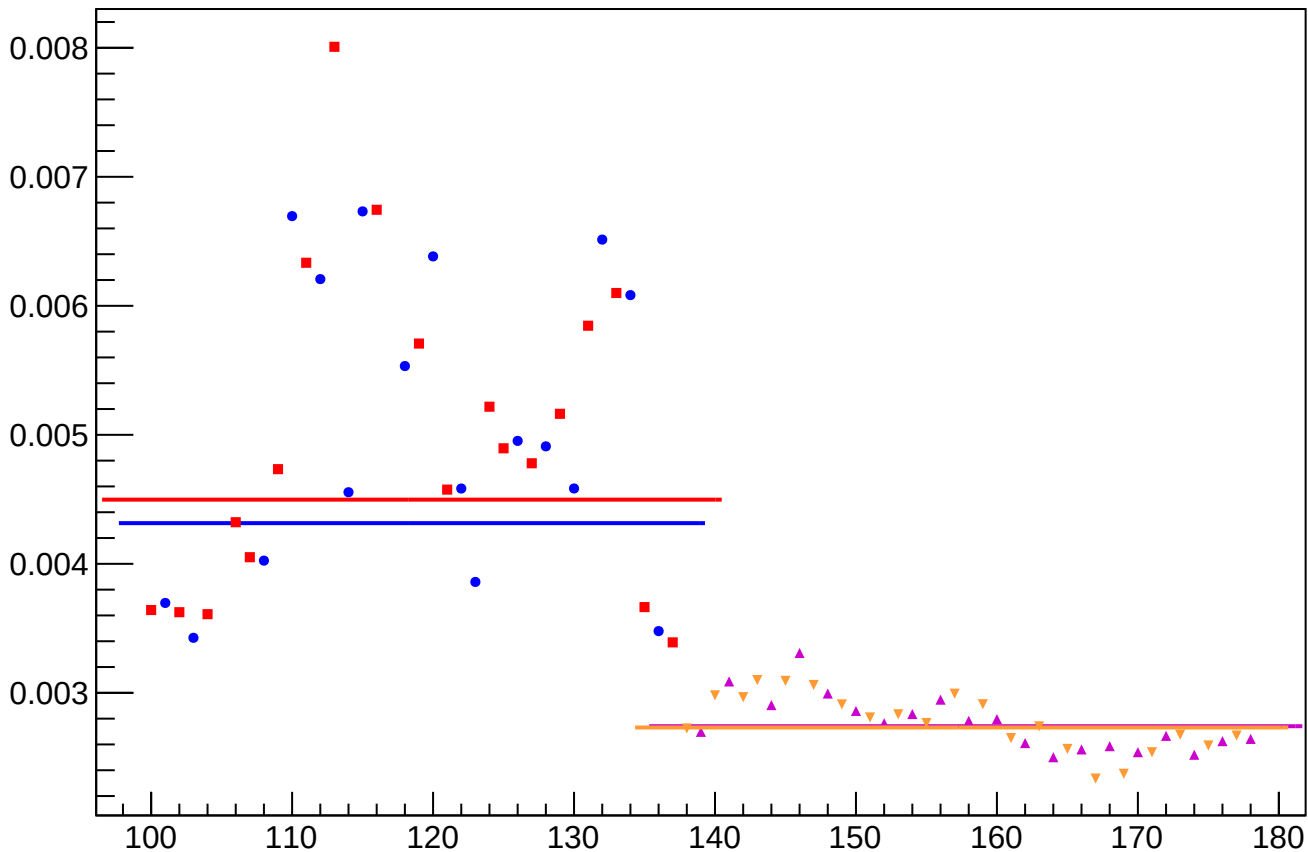
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.274+/-0.000 χ^2/NDF : 19513733171.7/36

Out: -0.272+/-0.000 χ^2/NDF : 18619760807.3/39

All: -0.273+/-0.000 χ^2/NDF : 38136044514.8/79

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :196533.2/20

Right Out: 0.004+/-0.000 χ^2/NDF : 649708.4/18

Left In: 0.003+/-0.000 χ^2/NDF :142935.4/19

Left: 0.003+/-0.000 χ^2/NDF : 339664.6/40

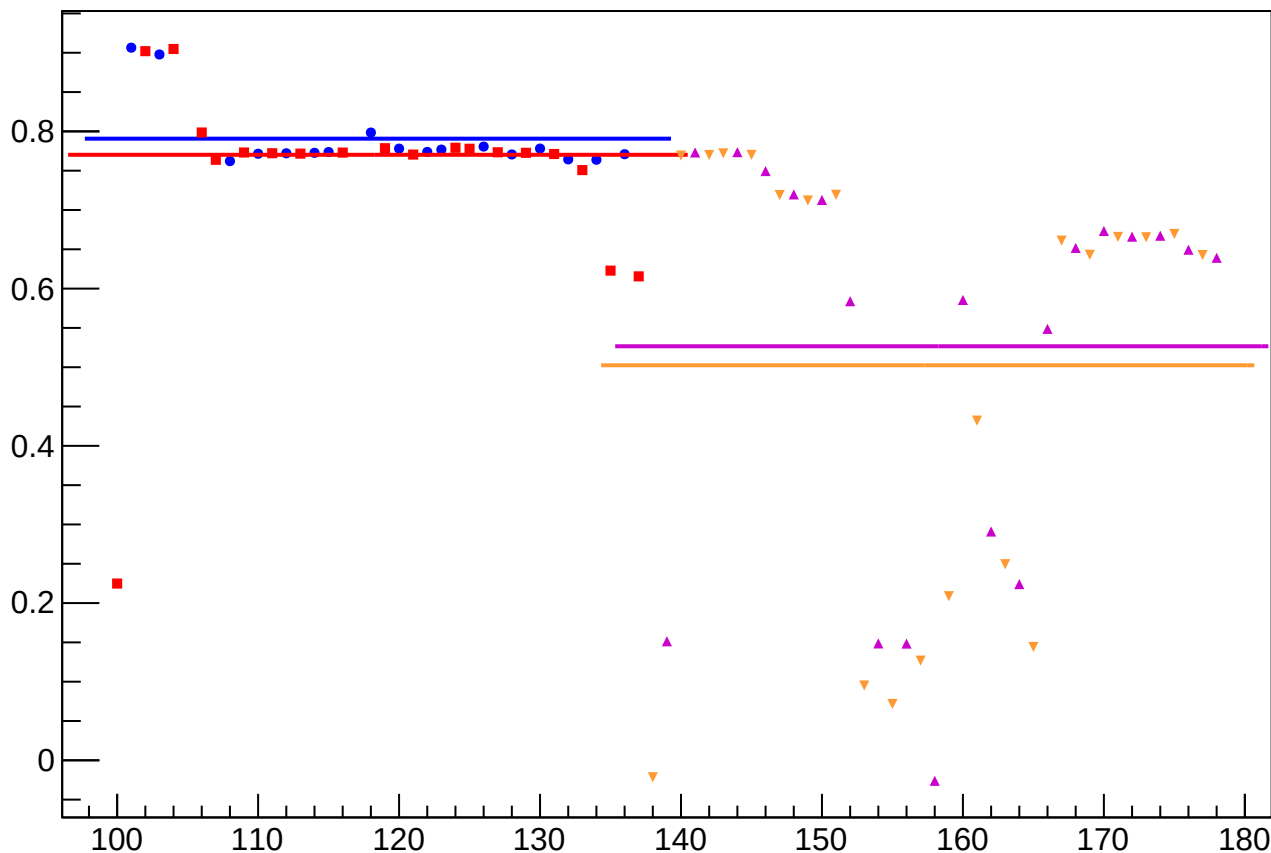
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :2096296.6/36

Out: 0.003+/-0.000 χ^2/NDF :2511500.3/39

All: 0.003+/-0.000 χ^2/NDF : 4607927.7/76

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106705767.1/16

Left Out: 0.502 $\pm$ 0.000 χ^2 /NDF: 9217928554.3/20

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375442189.7/18

Left In: 0.527 $\pm$ 0.000 χ^2 /NDF: 7680599958.3/19

Left: 0.515 $\pm$ 0.000 χ^2 /NDF: 16935988710.0/40

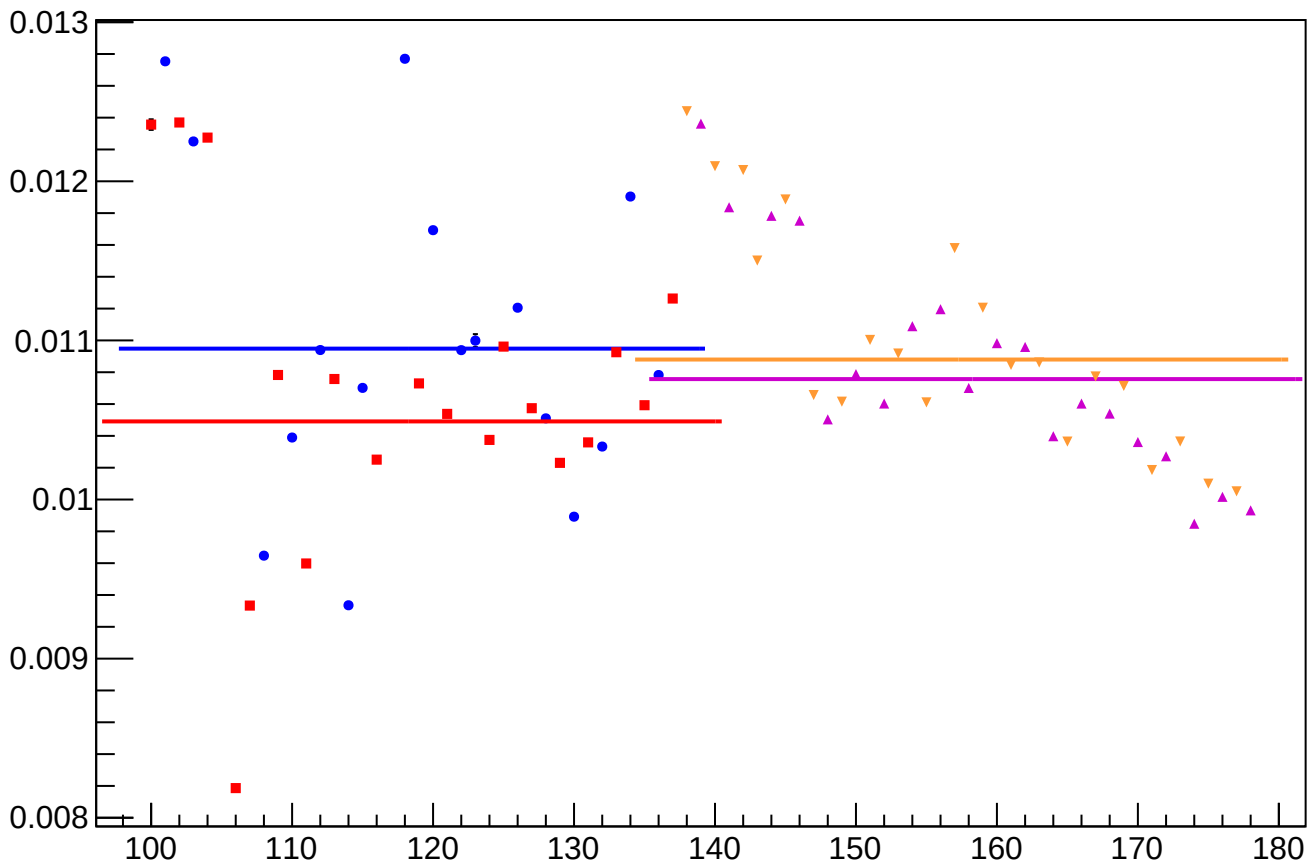
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494318002.1/35

In: 0.605 $\pm$ 0.000 χ^2 /NDF: 10429996055.5/36

Out: 0.590 $\pm$ 0.000 χ^2 /NDF: 12611007323.7/39

All: 0.597 $\pm$ 0.000 χ^2 /NDF: 23059634438.6/77

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 98551.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:101935.6/20

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 119420.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:103650.9/19

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 207525.0/40

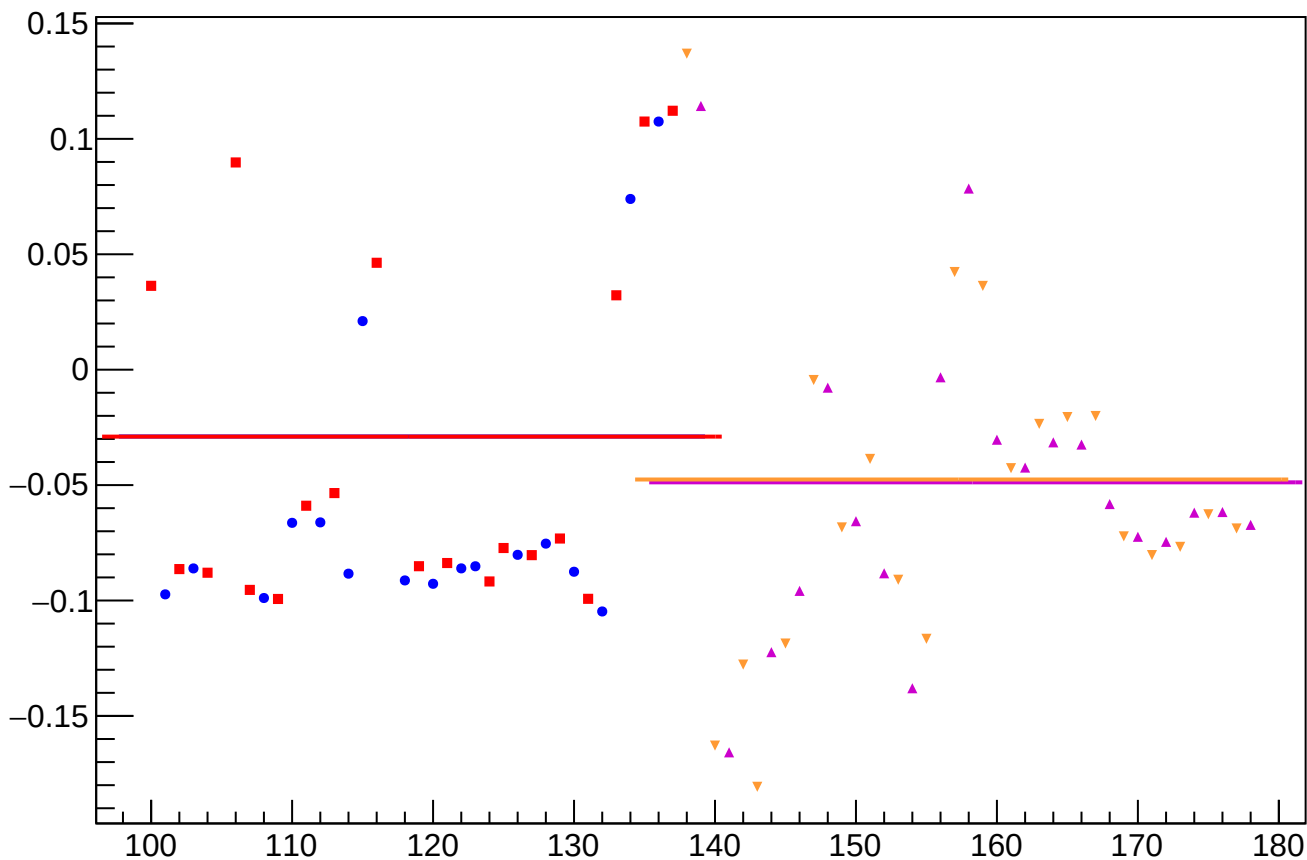
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 230086.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:204981.7/36

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:234091.0/39

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 439774.3/76

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.048+/-0.000

χ^2/NDF : 13206834854.6/40

Left Out: -0.048+/-0.000

χ^2/NDF : 7128550482.2/20

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.046+/-0.000

χ^2/NDF : 8624040045.8/36

Out: -0.045+/-0.000

χ^2/NDF : 9327682411.0/39

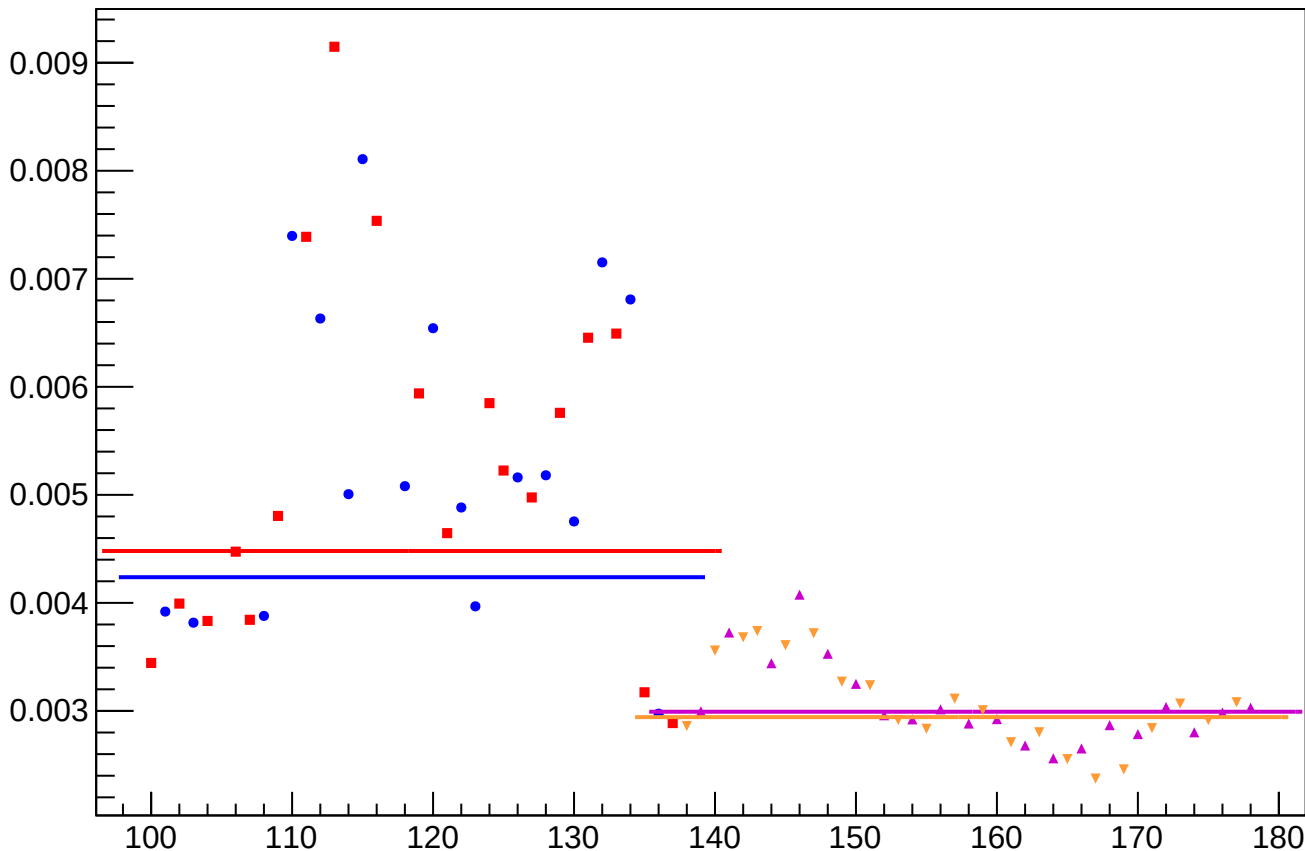
Left In: -0.049+/-0.000

χ^2/NDF : 6077040638.1/19

All: -0.045+/-0.000

χ^2/NDF : 17952322274.2/100

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 : 467246.1/20

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 316314.1/19

Left: 0.003+/-0.000 χ^2/NDF : 787673.3/40

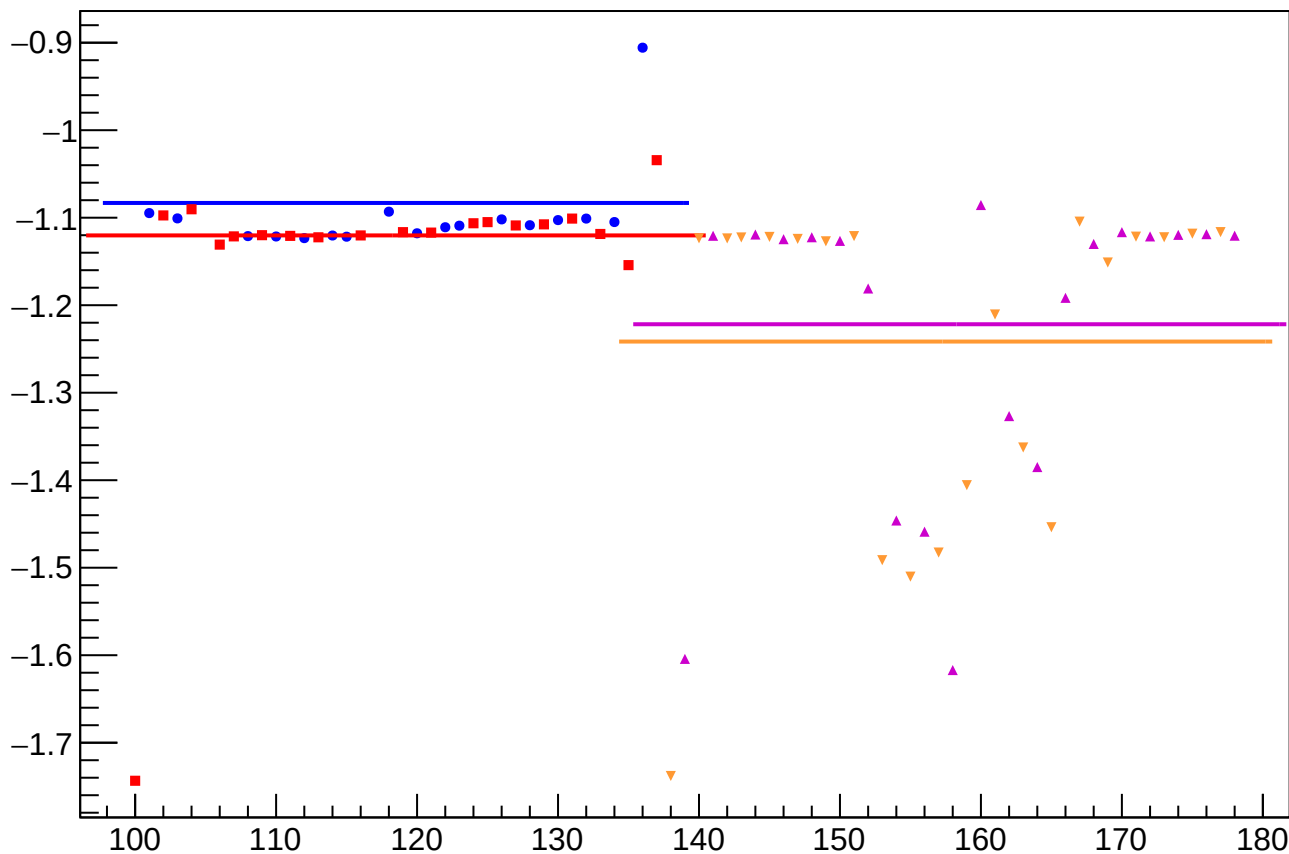
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1992092.3/36

Out: 0.003+/-0.000 χ^2/NDF : 2626688.1/39

All: 0.003+/-0.000 χ^2/NDF : 4619816.1/76

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.242+/-0.000 χ^2/NDF : 4906885260.3/20

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.222+/-0.000 χ^2/NDF : 4310147110.9/19

Left: -1.232+/-0.000 χ^2/NDF : 9248164740.1/40

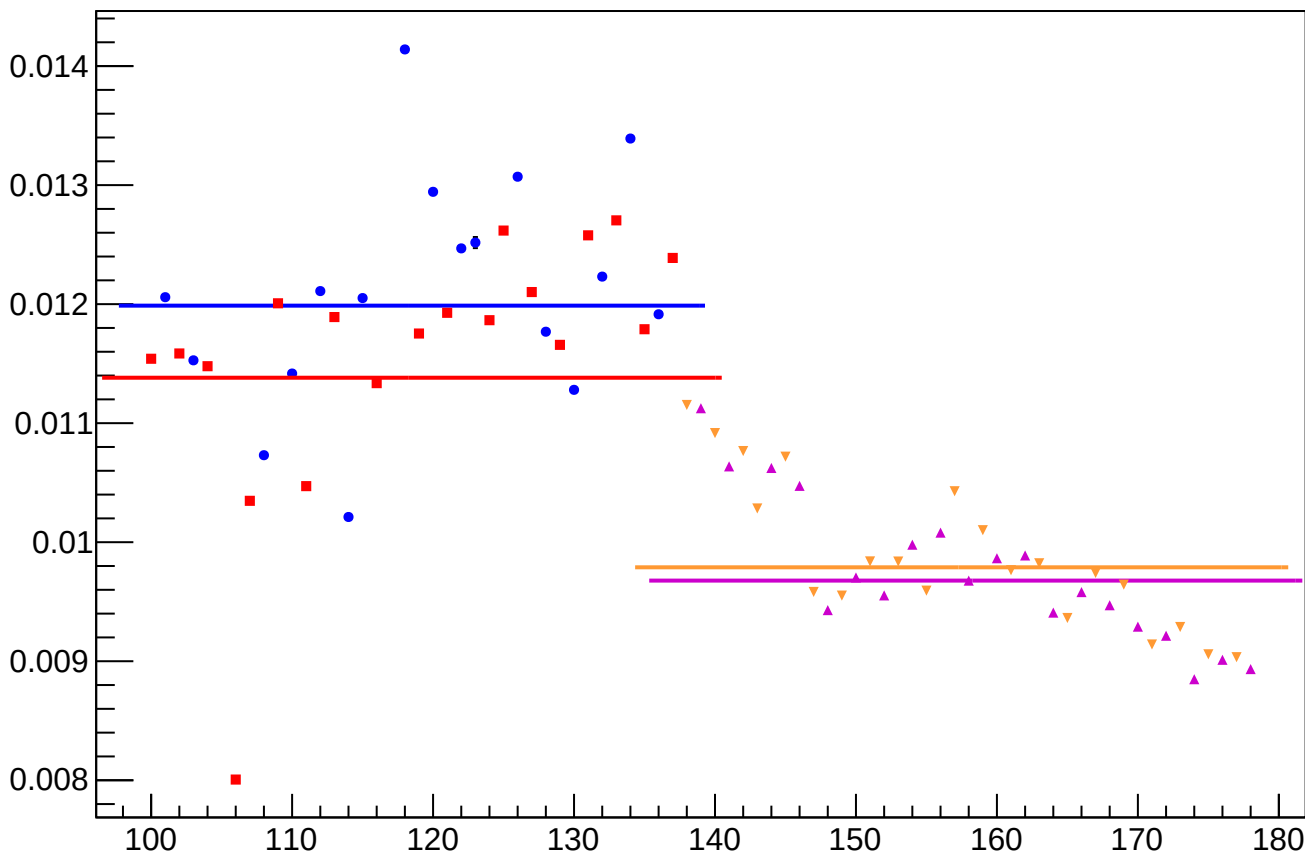
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.191+/-0.000 χ^2/NDF : 5184959970.6/36

Out: -1.211+/-0.000 χ^2/NDF : 5711121609.7/39

All: -1.201+/-0.000 χ^2/NDF : 10937374559.2/78

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 60402.0/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:102649.3/20

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:103459.0/19

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 208090.4/40

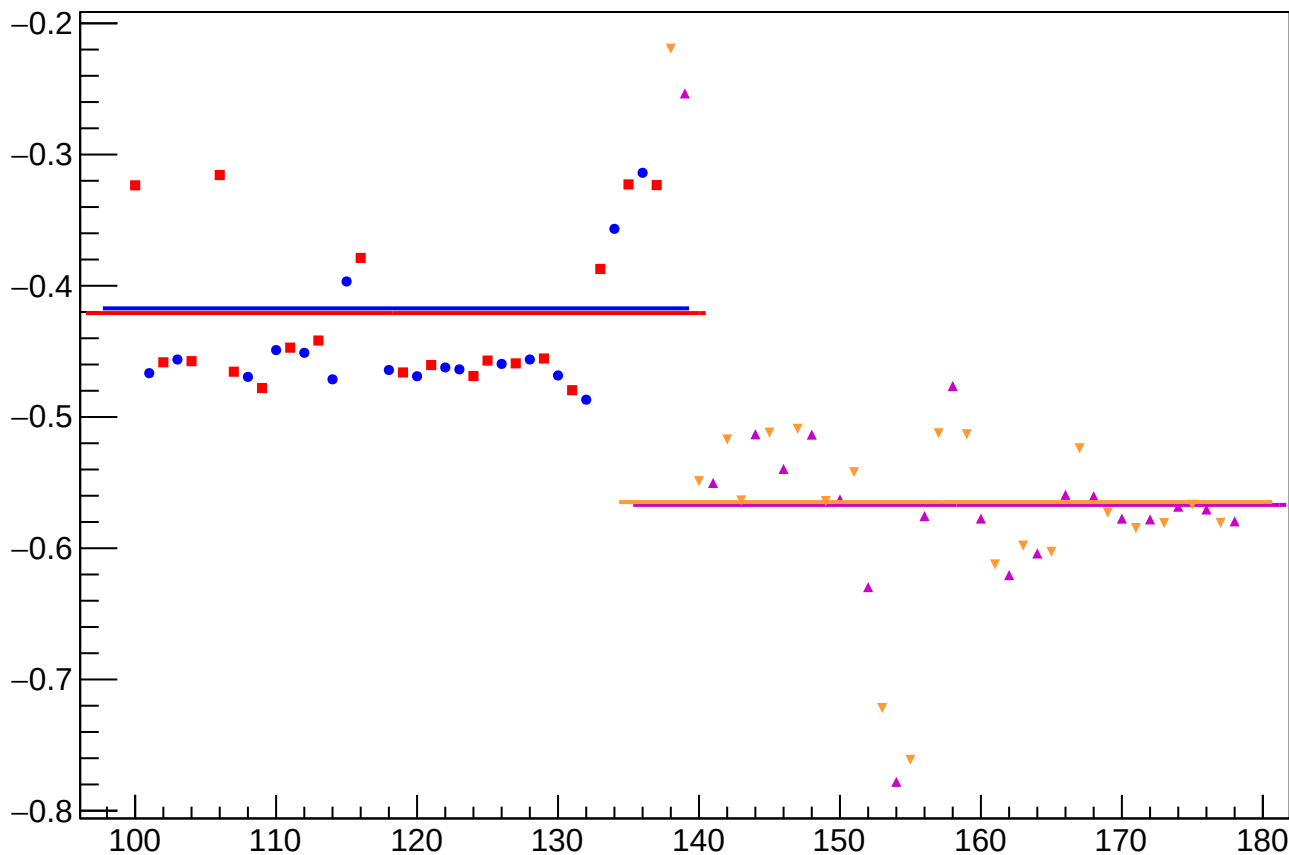
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:537009.6/36

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:458435.9/39

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 995446.5/76

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.565+/-0.000 χ^2/NDF : 13329606118.4/20

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.567+/-0.000 χ^2/NDF : 10445096109.1/19

Left: -0.566+/-0.000 χ^2/NDF : 23777811026.5/40

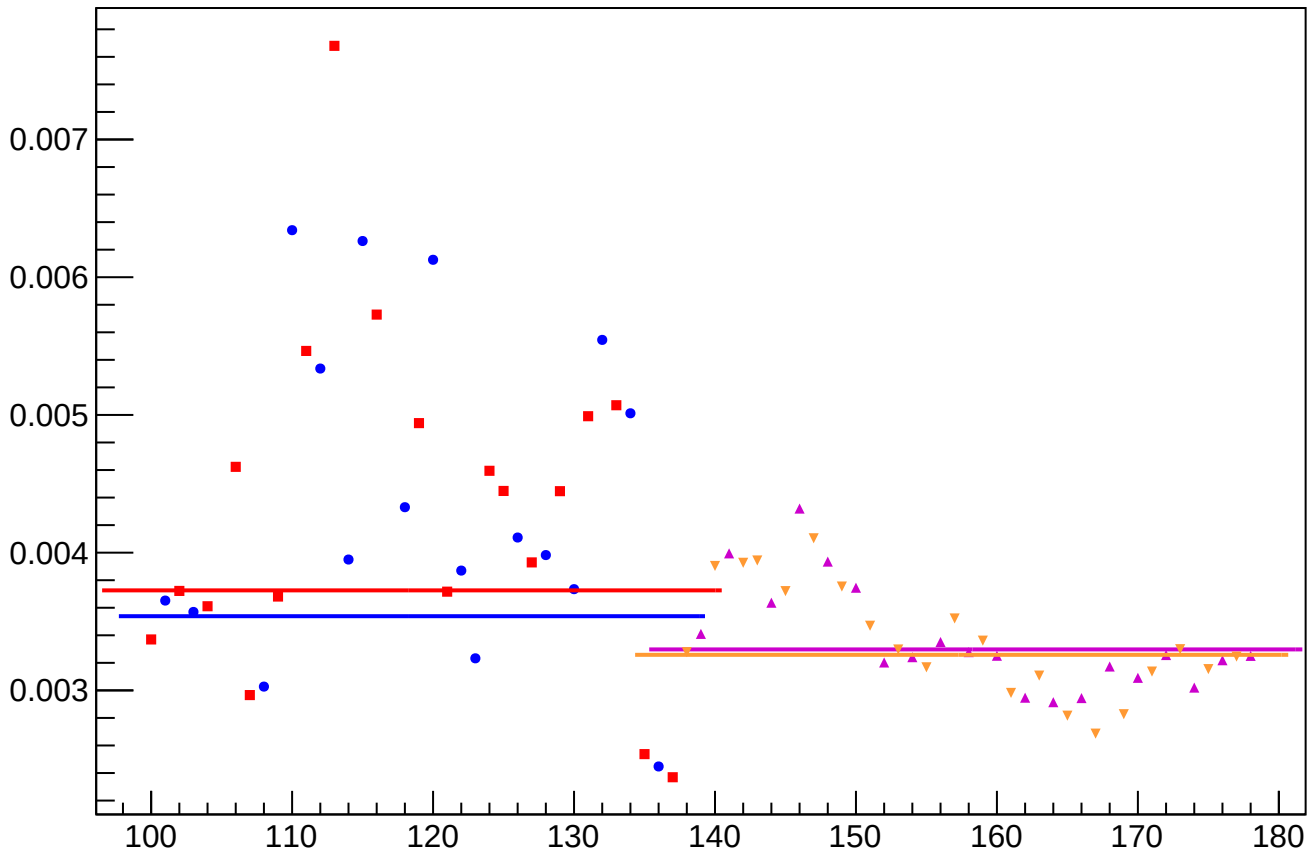
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.530+/-0.000 χ^2/NDF : 19821771678.1/36

Out: -0.531+/-0.000 χ^2/NDF : 21685027536.9/39

All: -0.531+/-0.000 χ^2/NDF : 41508194817.7/74

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 836154.0/16

Left Out: 0.003+/-0.000 χ^2/NDF : 374563.8/20

Right Out: 0.004+/-0.000 χ^2/NDF : 898447.6/18

Left In: 0.003+/-0.000 χ^2/NDF : 277527.9/19

Left: 0.003+/-0.000 χ^2/NDF : 654182.4/40

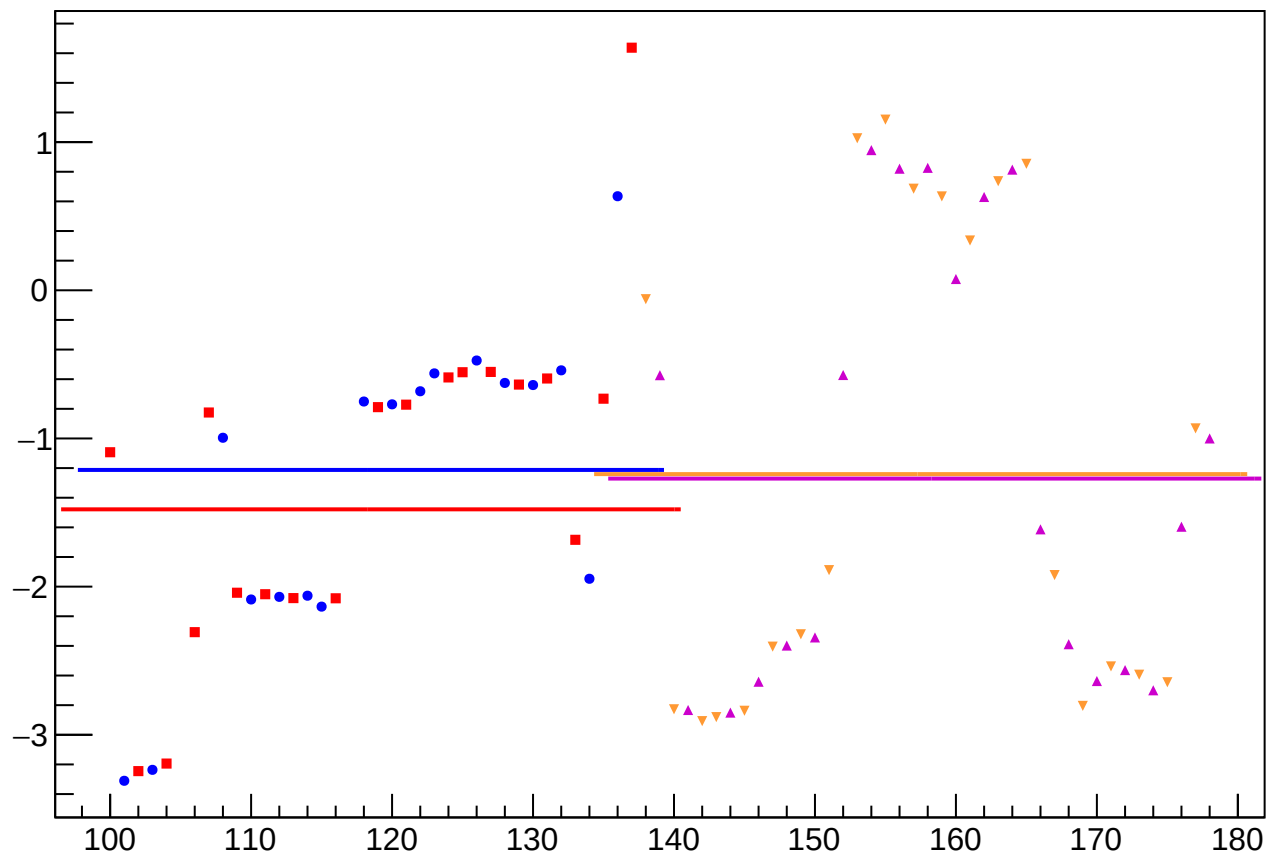
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF : 1151744.1/36

Out: 0.003+/-0.000 χ^2/NDF : 1414706.7/39

All: 0.003+/-0.000 χ^2/NDF : 2566641.5/76

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212+/-0.000 χ^2/NDF : 1992853443.9/16

Left Out: -1.241+/-0.000 χ^2/NDF : 6726296782.8/20

Right Out: -1.478+/-0.000 χ^2/NDF : 1578264383.8/18

Left In: -1.271+/-0.000 χ^2/NDF : 5523326059.9/19

Left: -1.255+/-0.000 χ^2/NDF : 12250873686.5/40

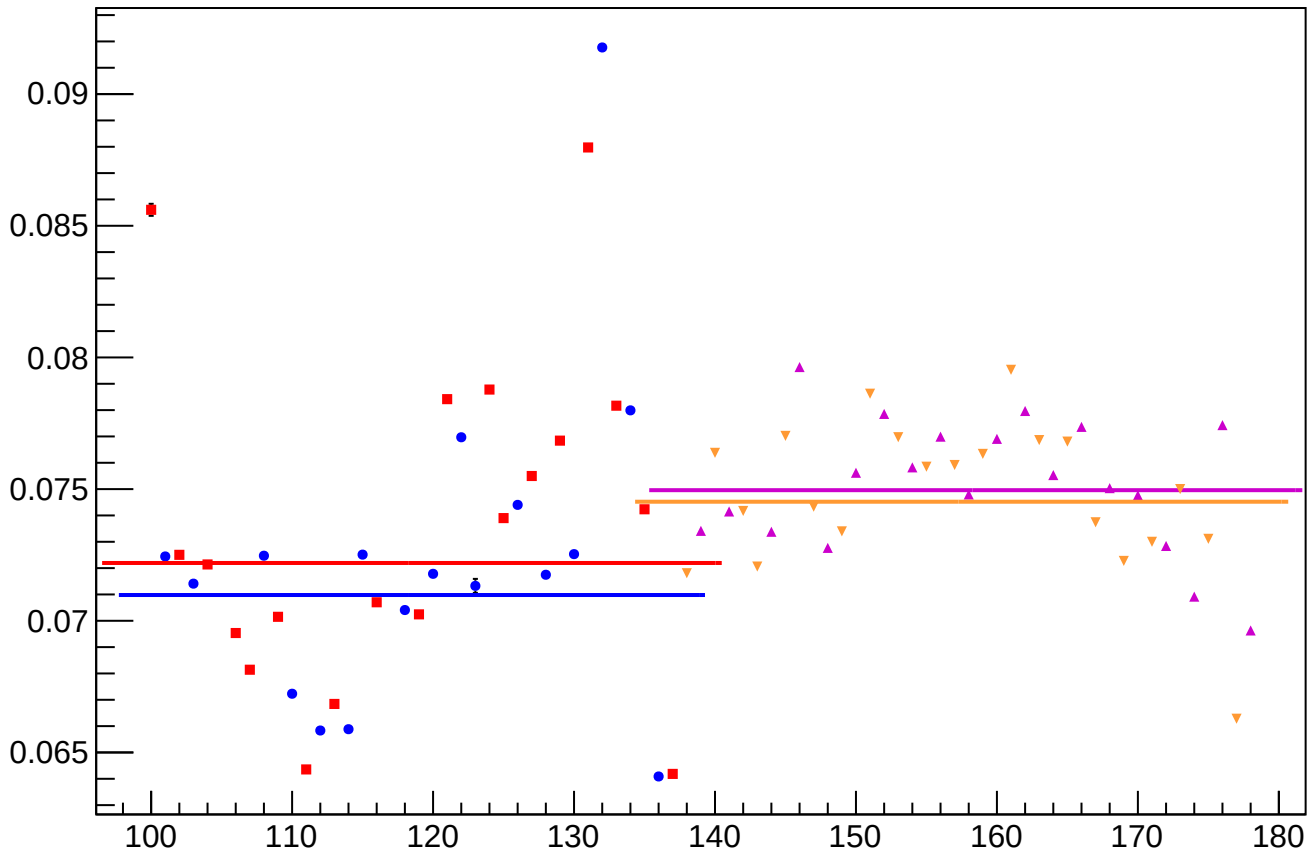
Right: -1.347+/-0.000 χ^2/NDF : 3617796481.7/35

In: -1.252+/-0.000 χ^2/NDF : 7519178109.9/36

Out: -1.317+/-0.000 χ^2/NDF : 8355651163.9/39

All: -1.285+/-0.000 χ^2/NDF : 15883594367.0/84

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.075+/-0.000 χ^2/NDF : 49871.0/20

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.075+/-0.000 χ^2/NDF : 32659.4/19

Left: 0.075+/-0.000 χ^2/NDF : 83057.6/40

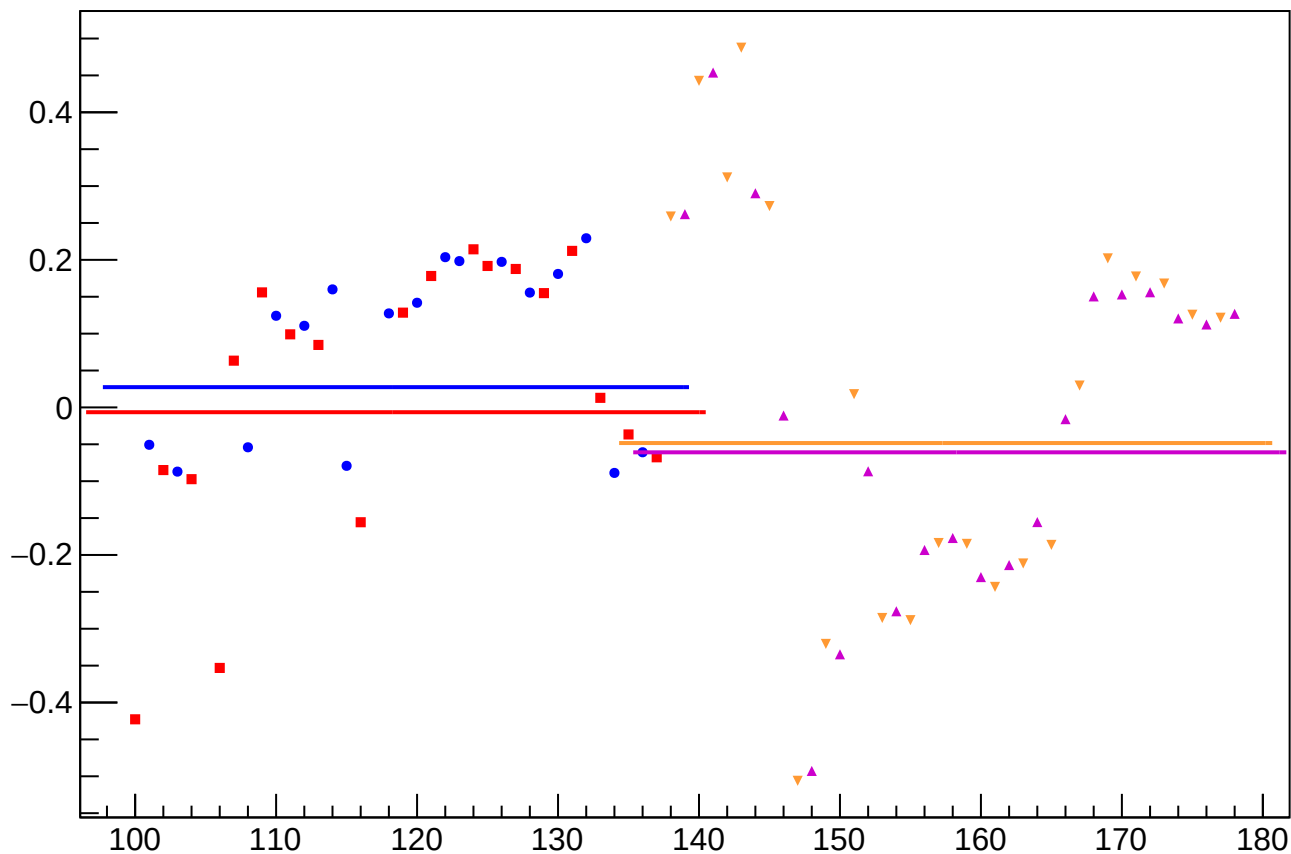
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 138113.3/36

Out: 0.074+/-0.000 χ^2/NDF : 132881.9/39

All: 0.074+/-0.000 χ^2/NDF : 271043.3/76

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 562337631.4/16

Left: -0.054+/-0.000 χ^2/NDF : 33627061933.0/40

Left Out: -0.048+/-0.000 χ^2/NDF : 18915766384.1/20

Right: 0.010+/-0.000 χ^2/NDF : 1787030042.0/35

Right Out: -0.007+/-0.000 χ^2/NDF : 1199278894.0/18

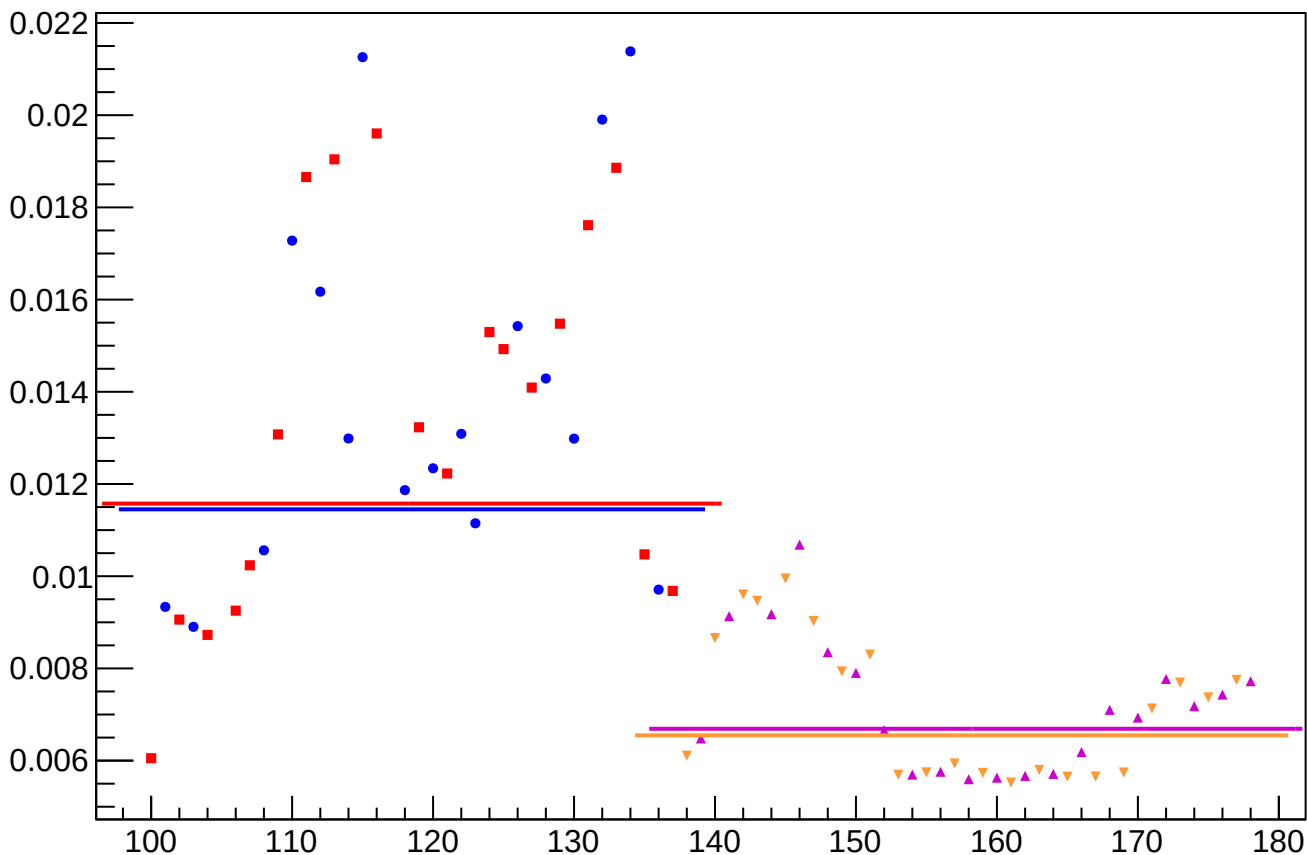
In: -0.050+/-0.000 χ^2/NDF : 15548162187.5/36

Out: -0.043+/-0.000 χ^2/NDF : 20183393527.7/39

Left In: -0.061+/-0.000 χ^2/NDF : 14685520068.2/19

All: -0.047+/-0.000 χ^2/NDF : 35739749542.1/170

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :1039557.9/20

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.007+/-0.000 χ^2/NDF :881893.1/19

Left: 0.007+/-0.000 χ^2/NDF : 1928095.8/40

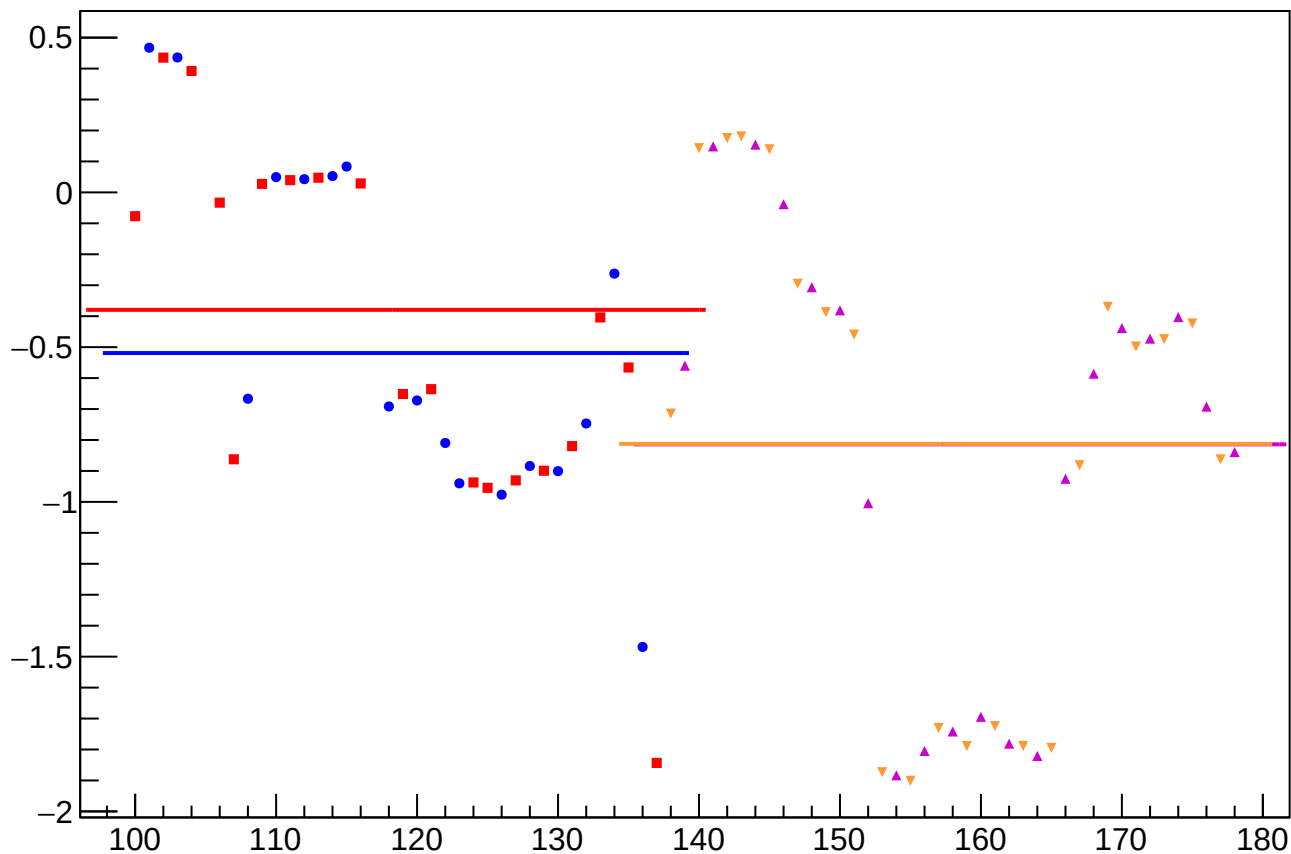
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF :3305219.3/36

Out: 0.007+/-0.000 χ^2/NDF :4014694.3/39

All: 0.007+/-0.000 χ^2/NDF : 7327096.8/76

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.813 ± 0.000 χ^2/NDF : 1082004268.6/20

Right Out: -0.379 ± 0.000 χ^2/NDF : 268621179.0/18

Left In: -0.814 ± 0.000 χ^2/NDF : 919192439.9/19

Left: -0.813 ± 0.000 χ^2/NDF : 2001198892.5/40

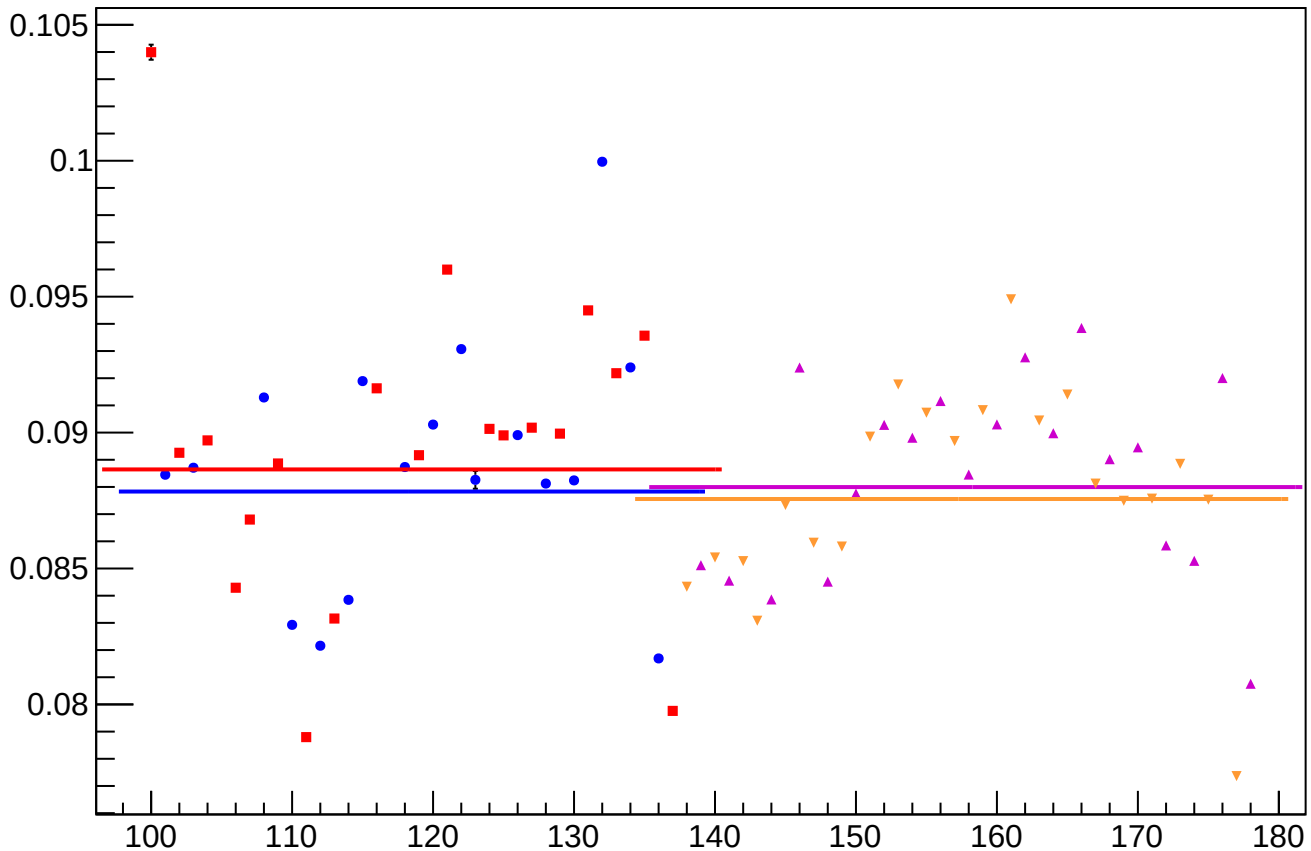
Right: -0.448 ± 0.000 χ^2/NDF : 616632603.2/35

In: -0.724 ± 0.000 χ^2/NDF : 1310977877.8/36

Out: -0.680 ± 0.000 χ^2/NDF : 1468154765.8/39

All: -0.702 ± 0.000 χ^2/NDF : 2781948662.0/77

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 34954.4/16

Left Out: 0.088+/-0.000 χ^2/NDF : 58456.7/20

Right Out: 0.089+/-0.000 χ^2/NDF : 39722.9/18

Left In: 0.088+/-0.000 χ^2/NDF : 46514.1/19

Left: 0.088+/-0.000 χ^2/NDF : 105358.2/40

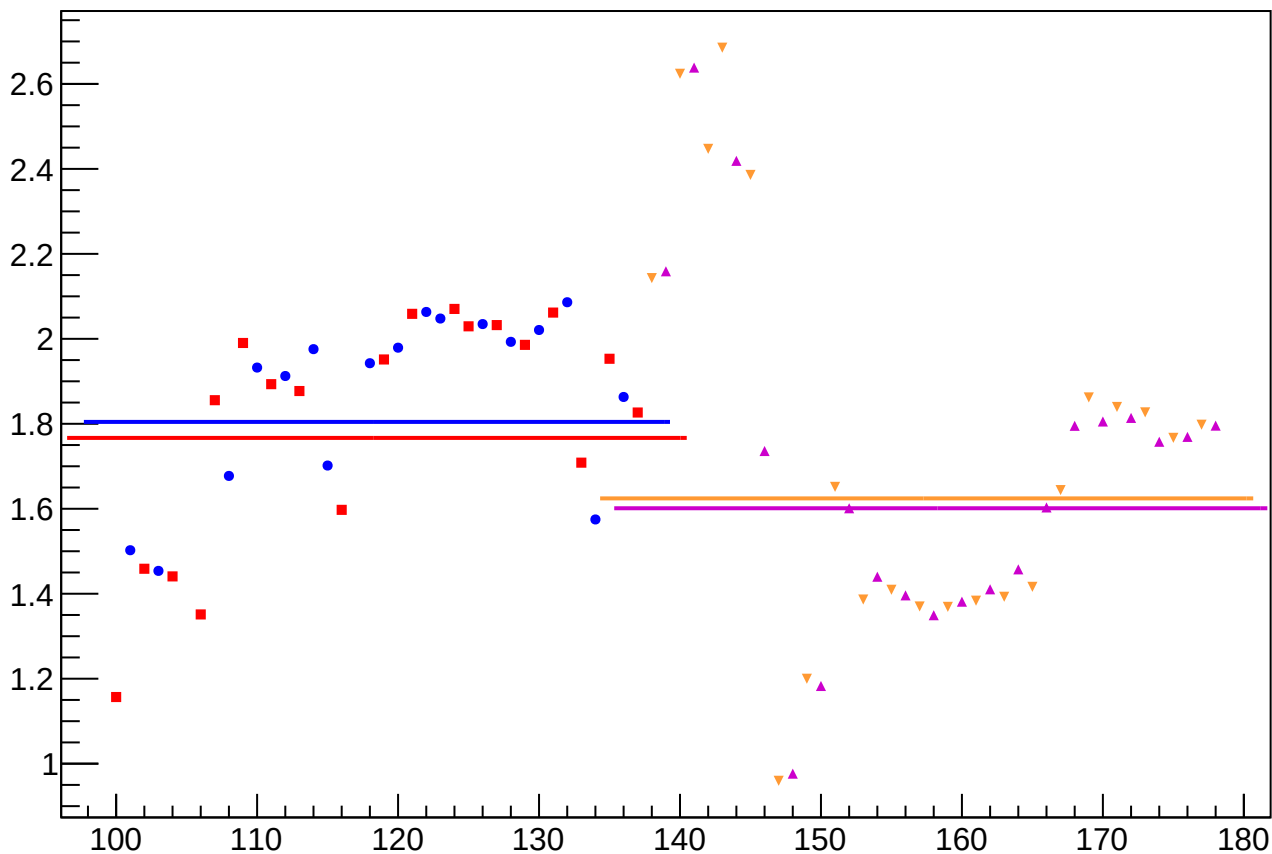
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF : 81500.9/36

Out: 0.088+/-0.000 χ^2/NDF : 99663.9/39

All: 0.088+/-0.000 χ^2/NDF : 181173.8/76

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 25497792887.5/20

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1709259284.5/18

Left In: 1.601 $\pm$ 0.000 χ^2 /NDF: 19999652666.2/19

Left: 1.613 $\pm$ 0.000 χ^2 /NDF: 45545844570.6/40

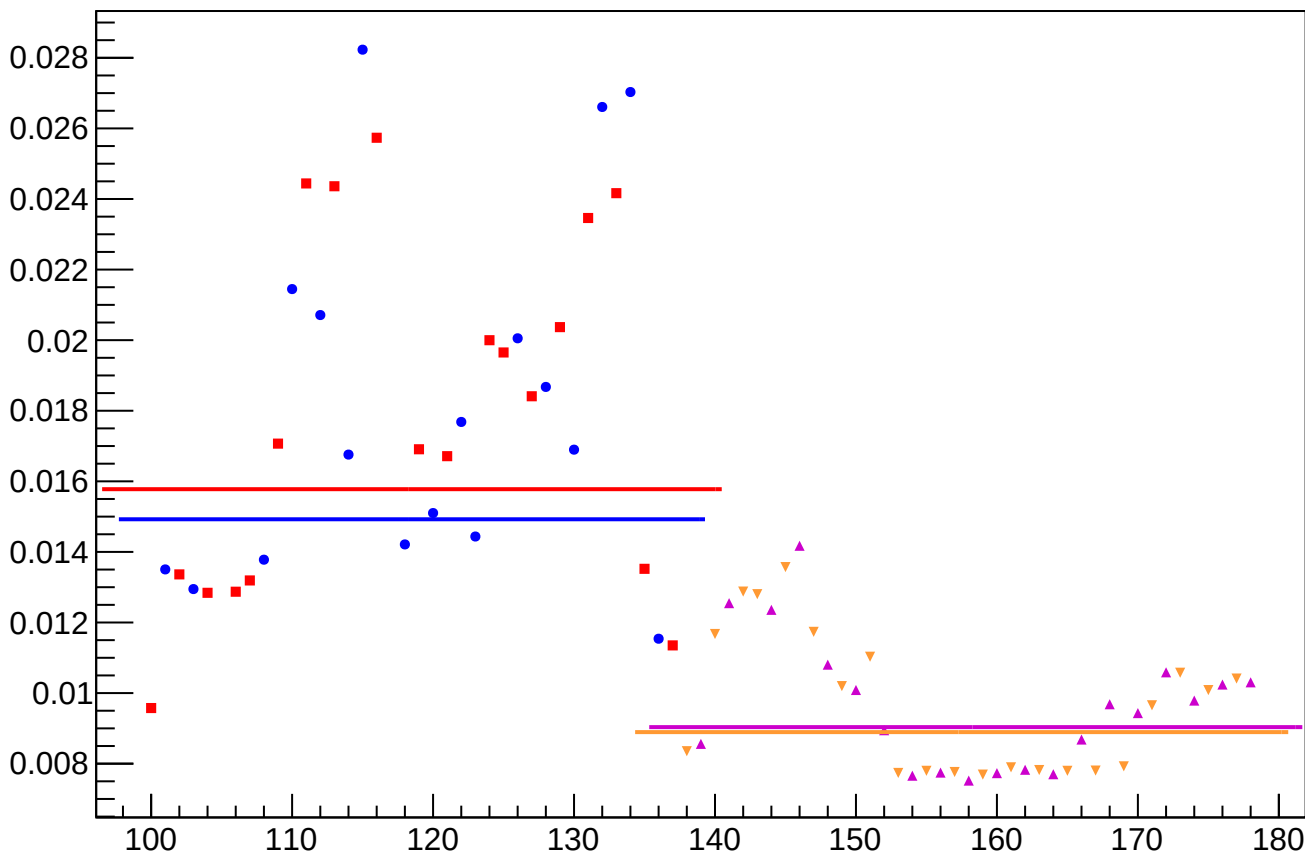
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.627 $\pm$ 0.000 χ^2 /NDF: 22085873777.2/36

Out: 1.641 $\pm$ 0.000 χ^2 /NDF: 27641363435.5/39

All: 1.634 $\pm$ 0.000 χ^2 /NDF: 49745986273.6/79

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.009+/-0.000 χ^2/NDF :958387.0/20

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF :837630.6/19

Left: 0.009+/-0.000 χ^2/NDF : 1799607.5/40

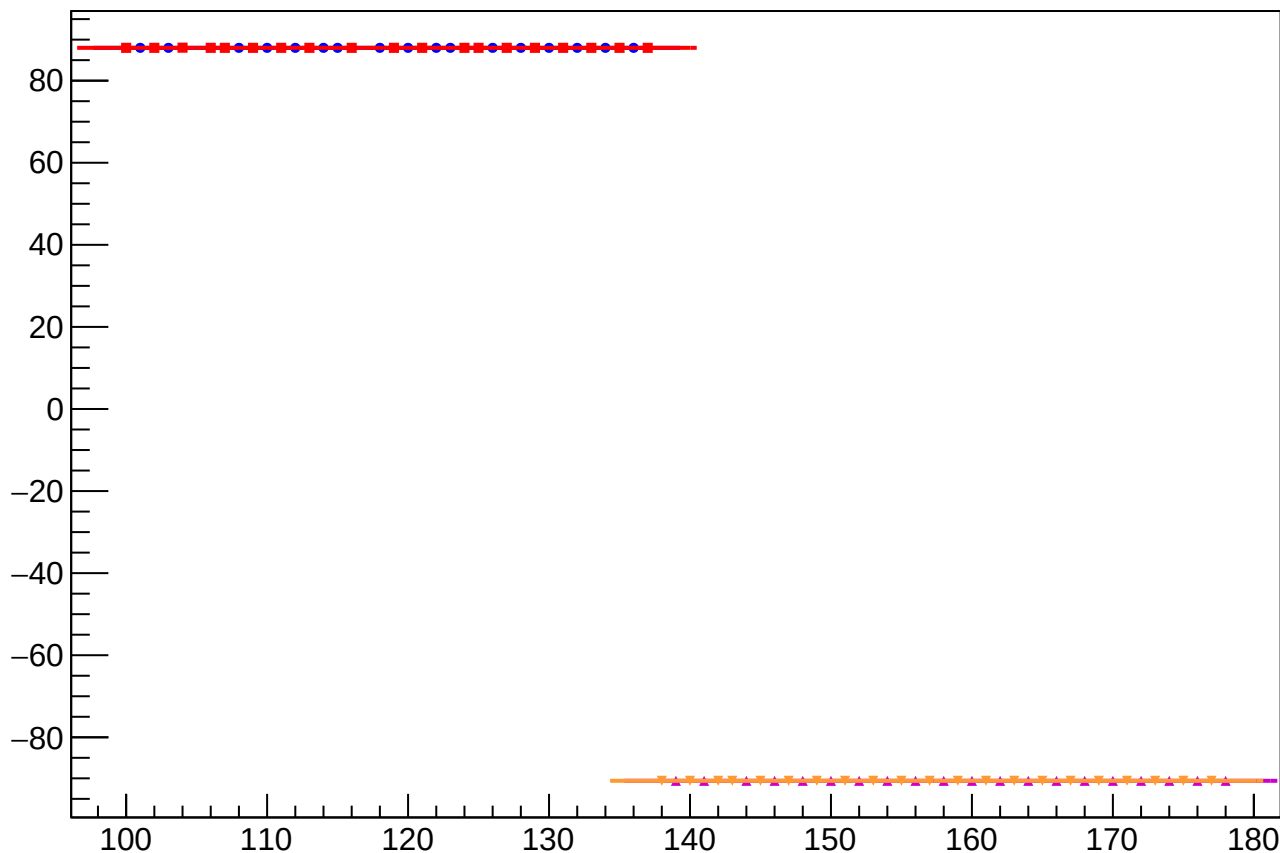
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF :3041782.2/36

Out: 0.010+/-0.000 χ^2/NDF :3774814.4/39

All: 0.010+/-0.000 χ^2/NDF : 6818730.2/76

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001 $\pm$ 0.000 χ^2 /NDF: 1852068.7/16

Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 6193757.2/20

Right Out: 88.004 $\pm$ 0.000 χ^2 /NDF: 77545892857504626270604886016.0/18

Left In: -90.599 $\pm$ 0.000 χ^2 /NDF: 5476638.4/19

Left: -90.599 $\pm$ 0.000 χ^2 /NDF: 11601733.2/40

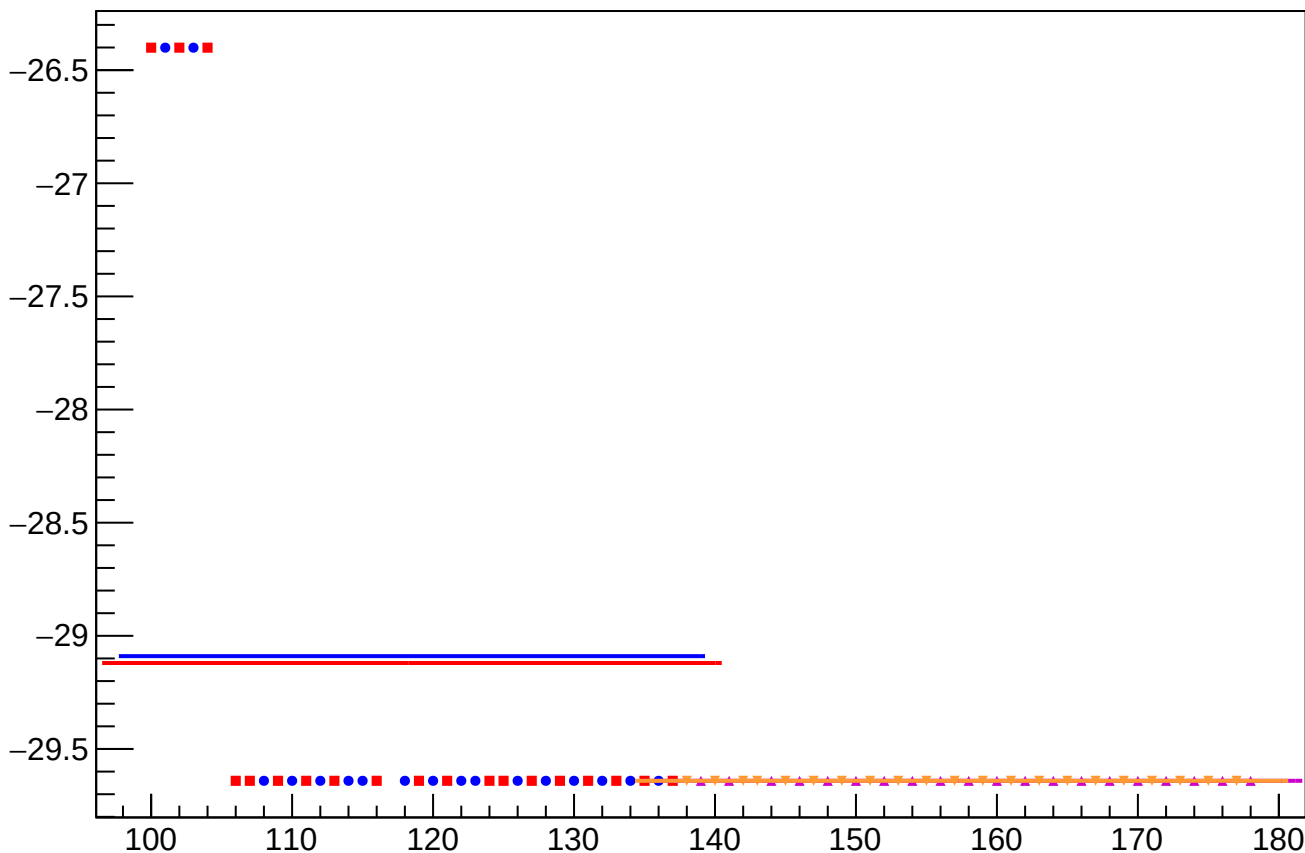
Right: 88.002 $\pm$ 0.000 χ^2 /NDF: 8043459440319720

In: -36.497 $\pm$ 0.000 χ^2 /NDF: 15431289057738957

Out: -35.820 $\pm$ 0.000 χ^2 /NDF: 1596716083381582

All: -36.154 $\pm$ 0.000 χ^2 /NDF: 313989825352

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.090+/-0.000

χ^2/NDF : 1028099246109521929793835198578688.0/16

Left Out: -29.641+/-0.000

χ^2/NDF : 230726.0/20

Right Out: -29.120+/-0.000

χ^2/NDF : 1022076578393359839206130891882496.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 333984.8/19

Left: -29.641+/-0.000 χ^2/NDF : 410472.7/40

Right: -29.105+/-0.000

χ^2/NDF : 205050154576273.0/16

In: -29.474+/-0.000

χ^2/NDF : 11749155855084974.0/16

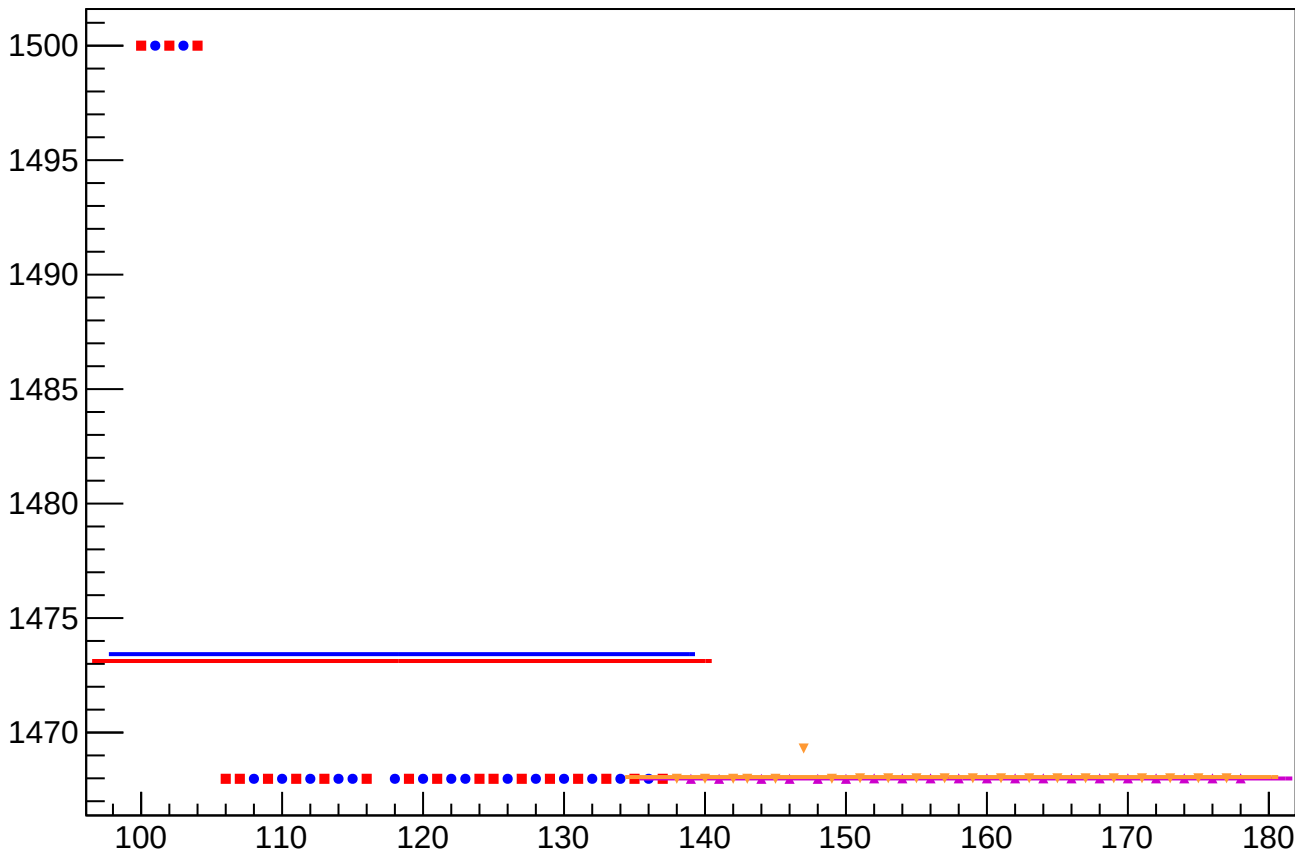
Out: -29.481+/-0.000

χ^2/NDF : 1157714928122320.0/16

All: -29.477+/-0.000

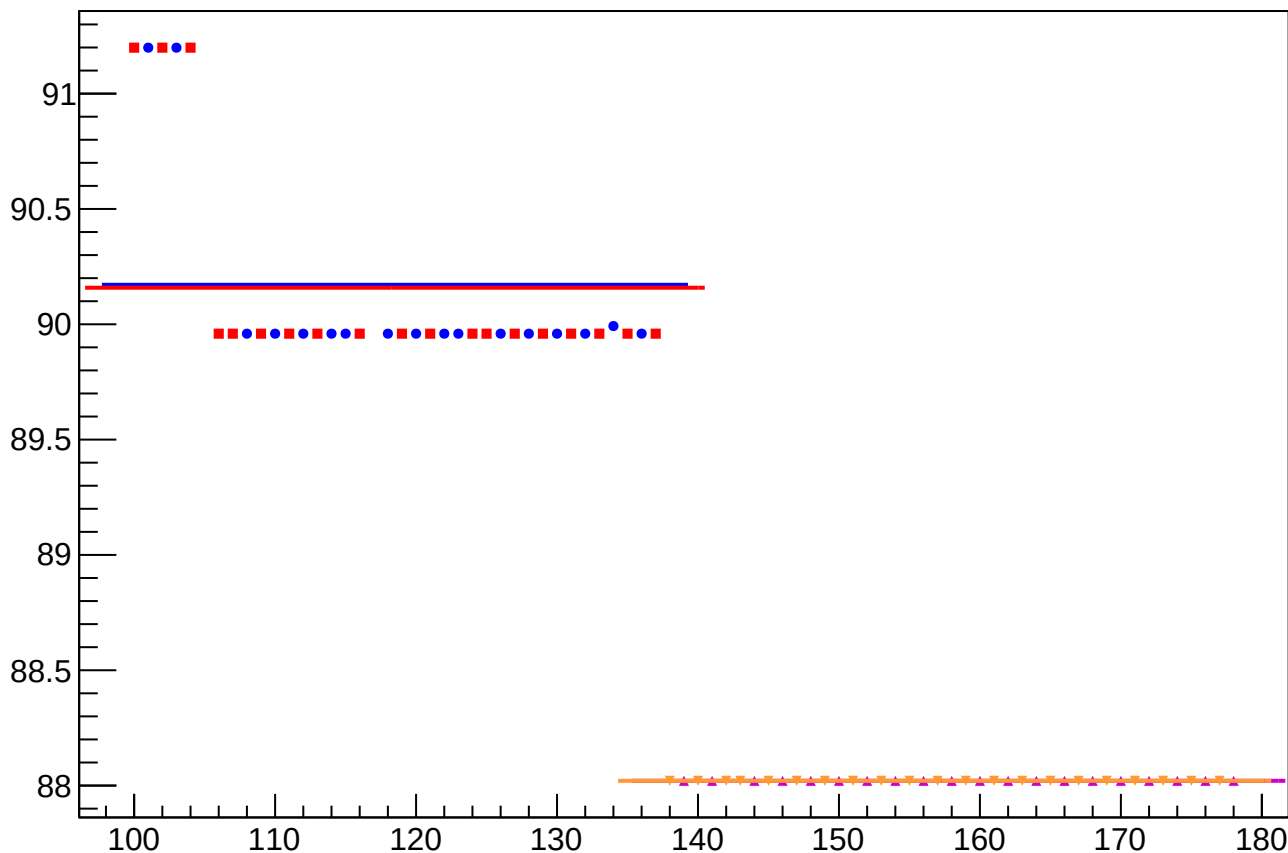
χ^2/NDF : 233269101881.0/16

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.056+/-0.000 χ^2/NDF : 127166964591025559887956343259136.0/20
 Right Out: 1473.124+/-0.000 χ^2/NDF : 99833021788859785886082809393577984.0/18
 Left In: 1467.993+/-0.000 χ^2/NDF : 13753187228886906226153095168.0/19
 All: 1469.624+/-0.000 χ^2/NDF : 22750656539

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left: 88.021+/-0.000 χ^2/NDF : 10338747.9/40

Right: 90.165+/-0.000

χ^2/NDF : 3000783518908113

Left Out: 88.021+/-0.000

χ^2/NDF : 4942888.8/20

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5490976.8/19

In: 88.672+/-0.000

χ^2/NDF : 238743920714308223

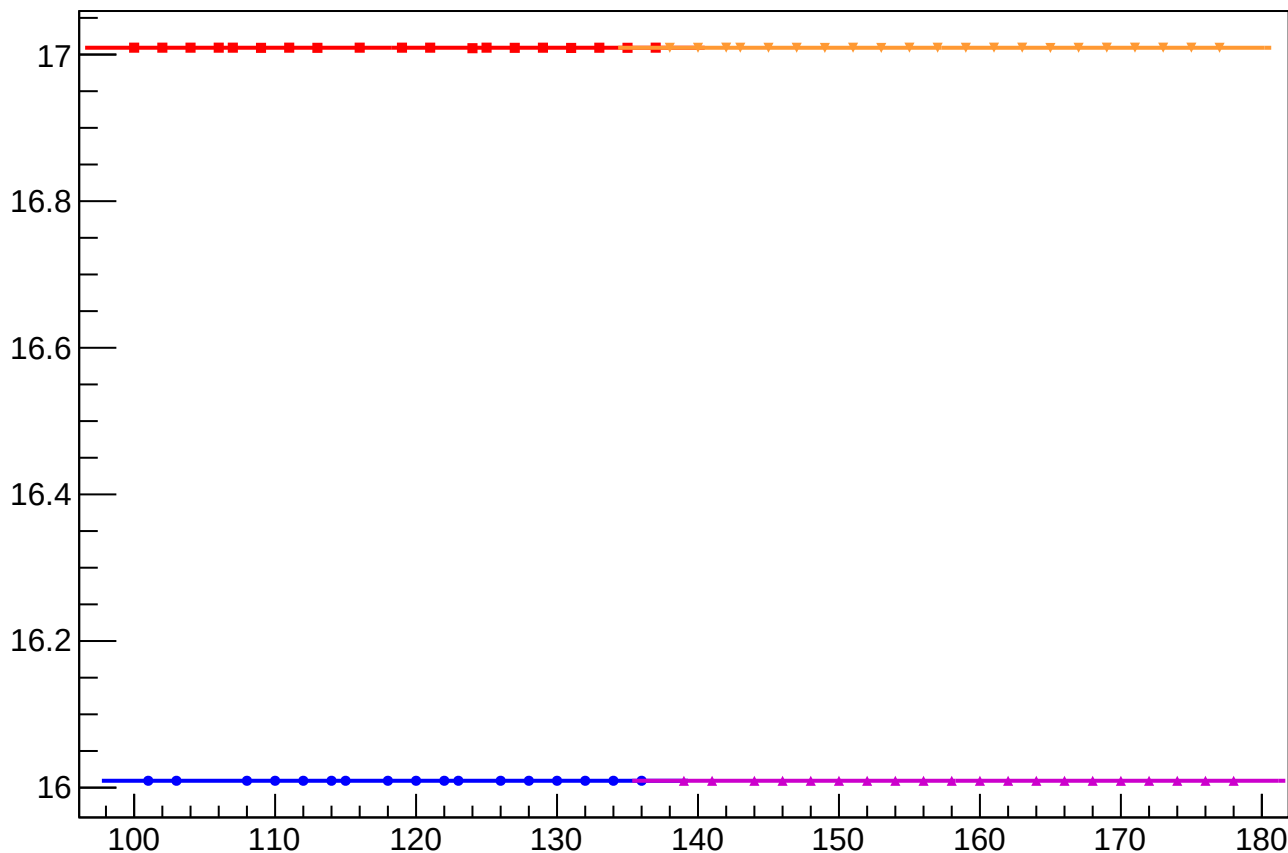
Out: 88.676+/-0.000

χ^2/NDF : 24373700394828741

All: 88.674+/-0.000

χ^2/NDF : 4824830481849

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000

χ^2/NDF : 44327.7/16

Left: 16.511+/-0.000

χ^2/NDF : 7498157472801050

Left Out: 17.009+/-0.000

χ^2/NDF : 23291282091101234567053312.0/20

Right: 16.506+/-0.000

χ^2/NDF : 3289281212306816

Right Out: 17.009+/-0.000

χ^2/NDF : 12516014336037541461884928.0/18

In: 16.009+/-0.000

χ^2/NDF : 129248274183677884

Out: 17.009+/-0.000

χ^2/NDF : 36180359905765662

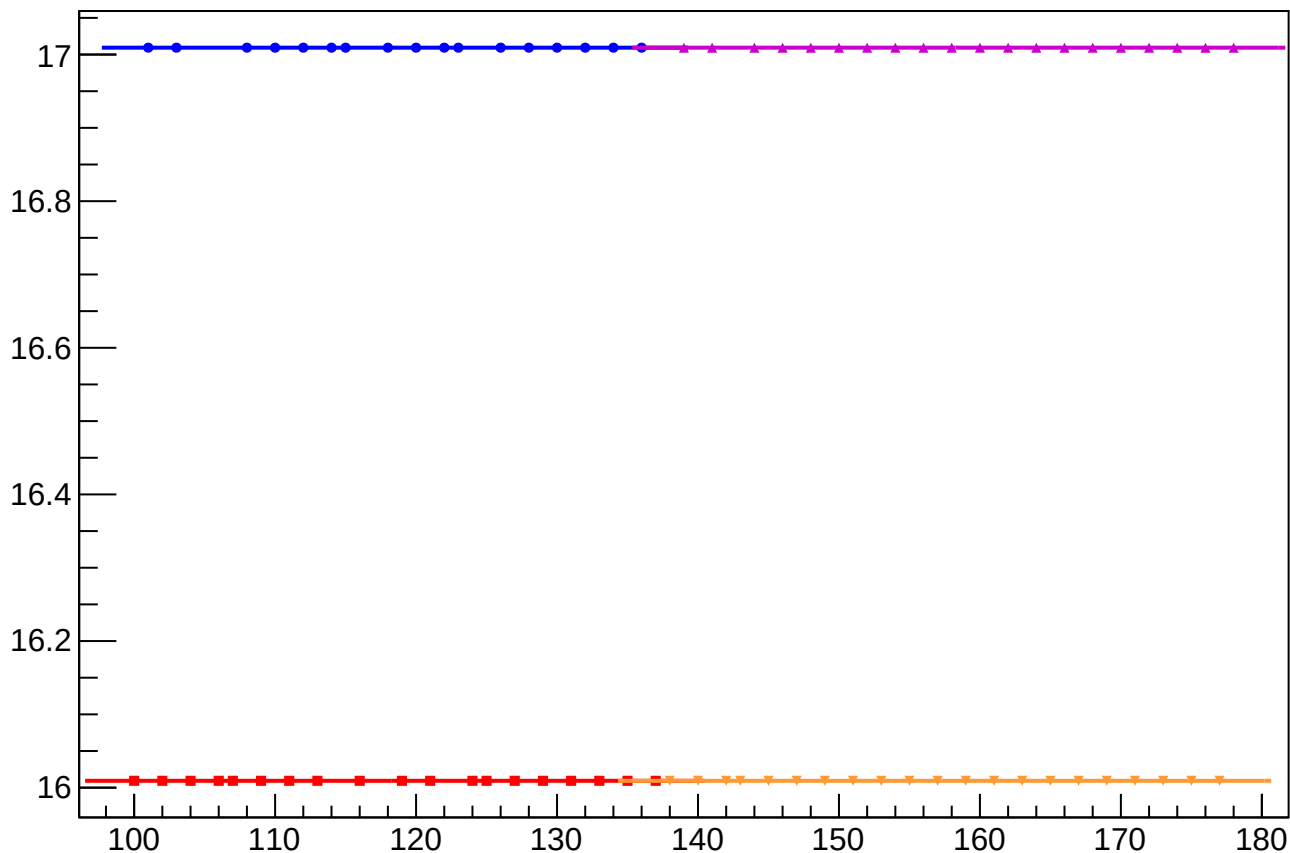
Left In: 16.009+/-0.000

χ^2/NDF : 127243494275687670349824.0/19

All: 16.510+/-0.000

χ^2/NDF : 1078763992226

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 132629.6/16

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 59764.1/20

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 39518.8/18

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114307265846797251117056.0/19

Left: 16.502 $\pm$ 0.000 χ^2 /NDF: 79207256243993882

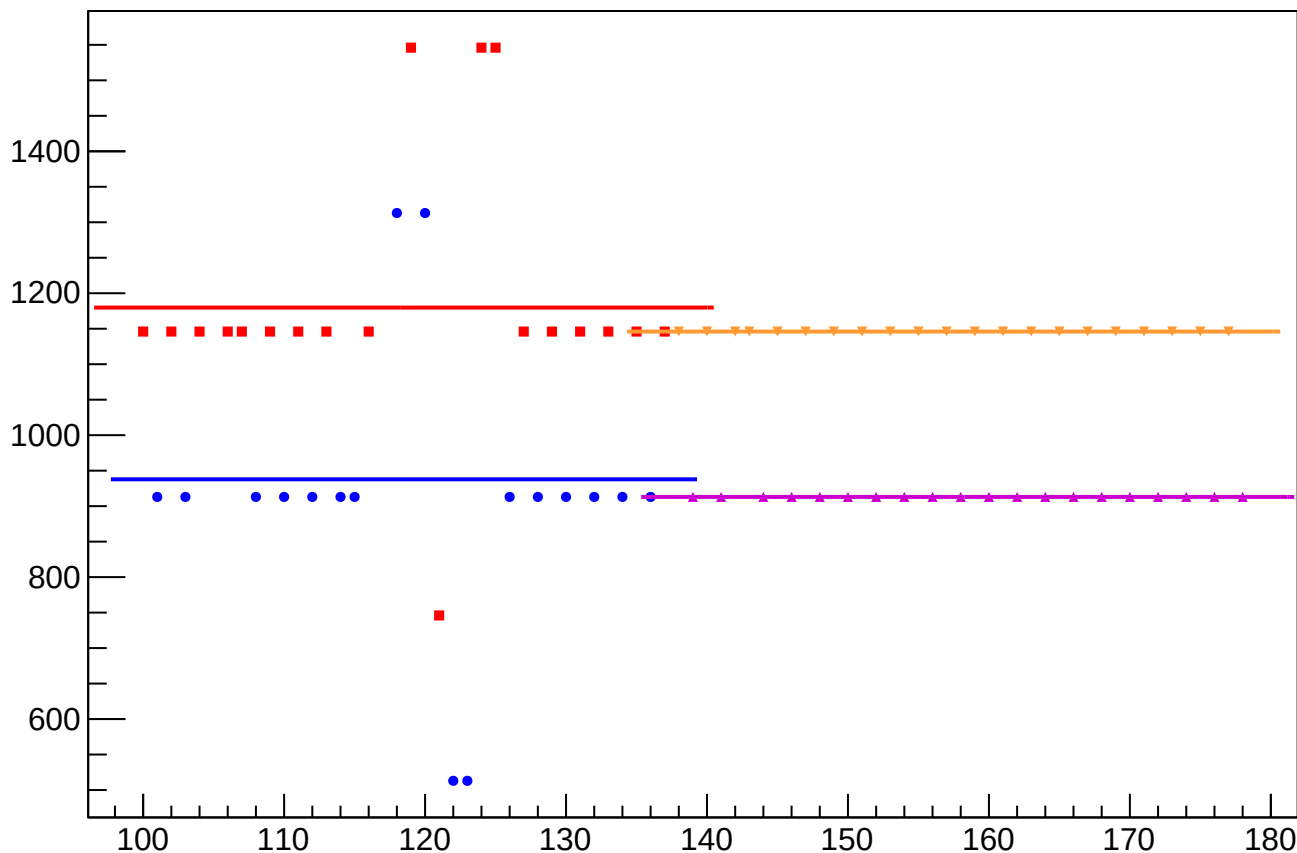
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3437400145243126

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116170277947807415

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 289644.5/39

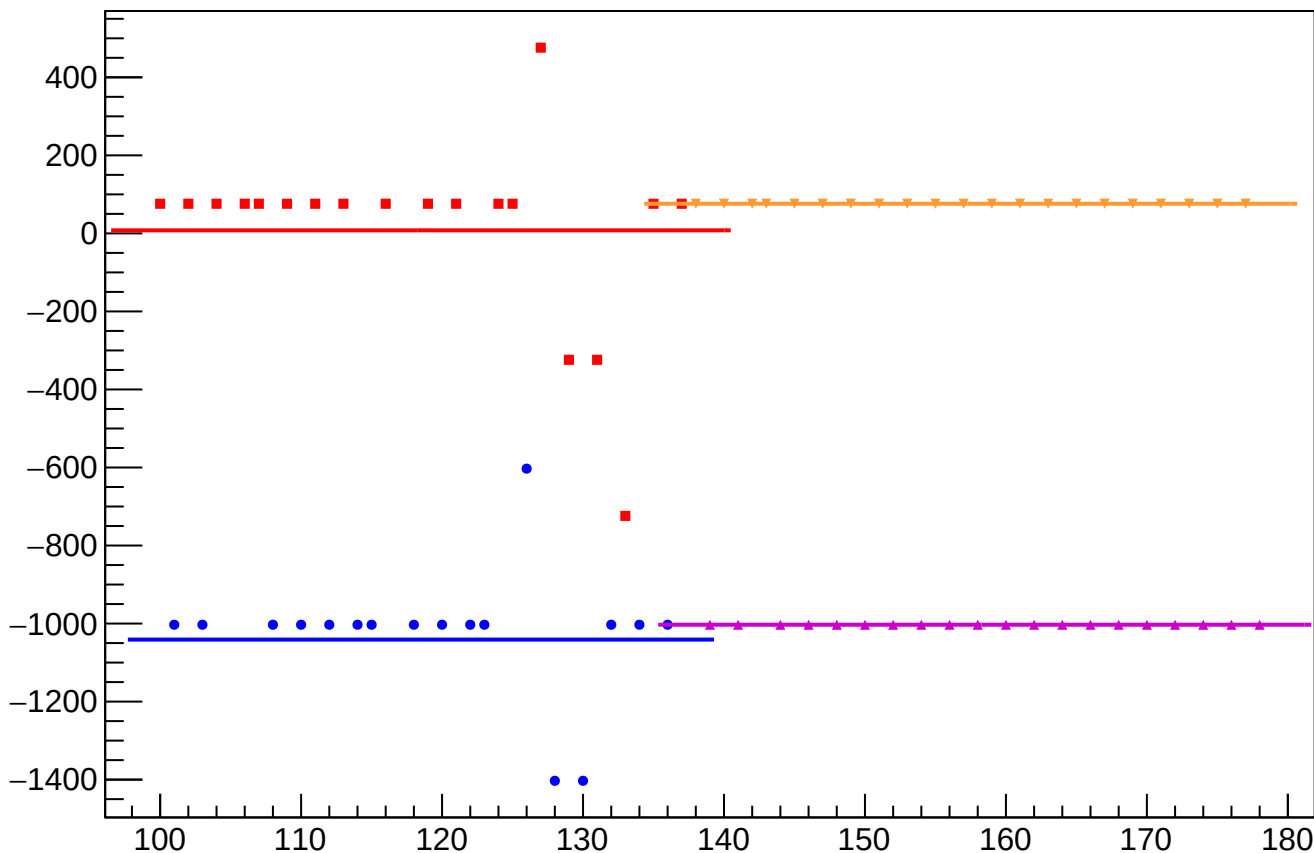
All: 16.498 $\pm$ 0.000 χ^2 /NDF: 1135946872368

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 5202626768434015163486568448.0/20
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 24474191532429700505142296576.0/19
 All: 1040.039+/-0.000 χ^2/NDF : 10773556764.0/76

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 : 10601909425478861398258745344.0/20
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 2384136325690638587716960256.0/19
 All: -472.448+/-0.000 χ^2/NDF : 13978804994