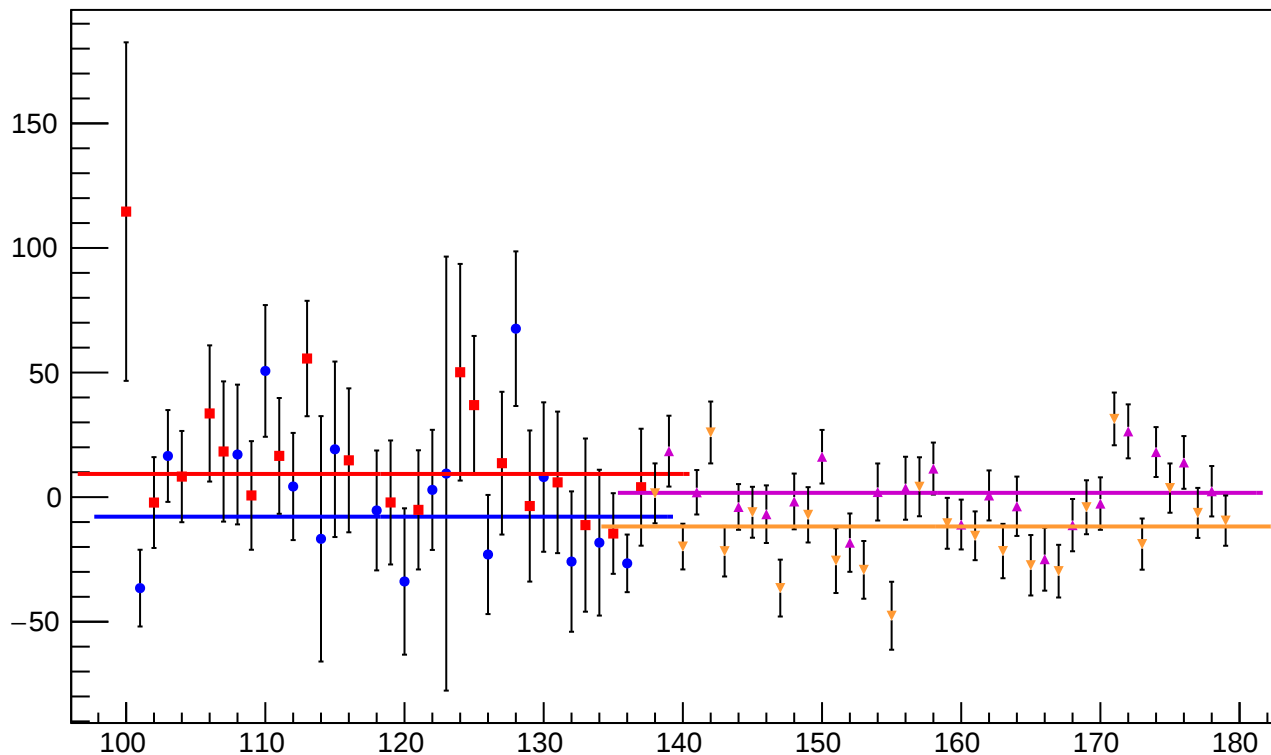


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

χ^2/NDF : 22.6/16

Left Out: -11.774 ± 2.310

χ^2/NDF : 55.4/21

Right Out: 9.309 ± 5.677

χ^2/NDF : 13.2/18

Left In: 1.724 ± 2.408

χ^2/NDF : 25.2/19

Left: -5.306 ± 1.667

χ^2/NDF : 96.9/41

Right: 0.629 ± 3.990

χ^2/NDF : 40.5/35

In: 0.235 ± 2.213

χ^2/NDF : 50.3/36

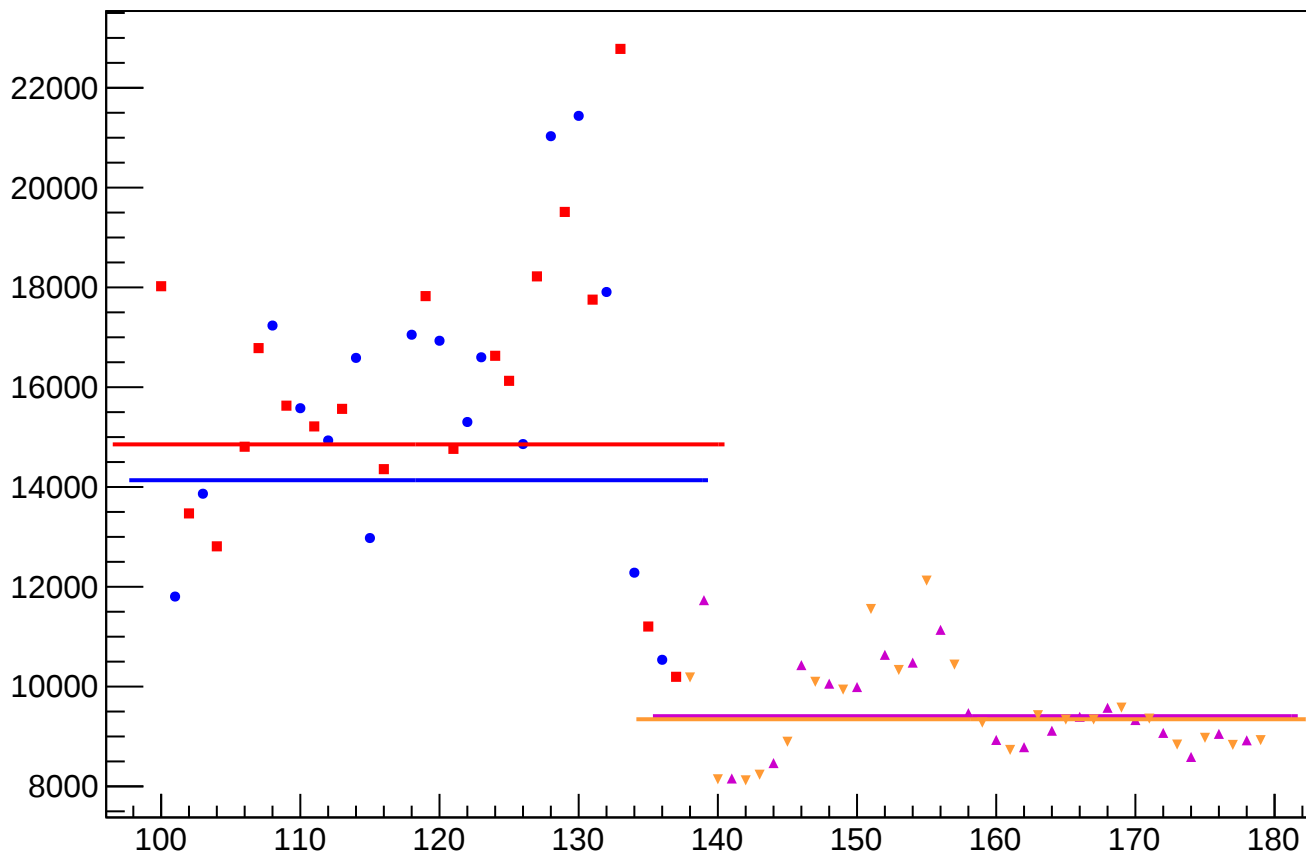
Out: -8.779 ± 2.140

χ^2/NDF : 80.4/40

All: -4.423 ± 1.538

χ^2/NDF : 139.3/77

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9345.321 $\pm$ 1.634 χ^2 /NDF:303892.6/21

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: 9374.882 $\pm$ 1.179 χ^2 /NDF: 559837.6/41

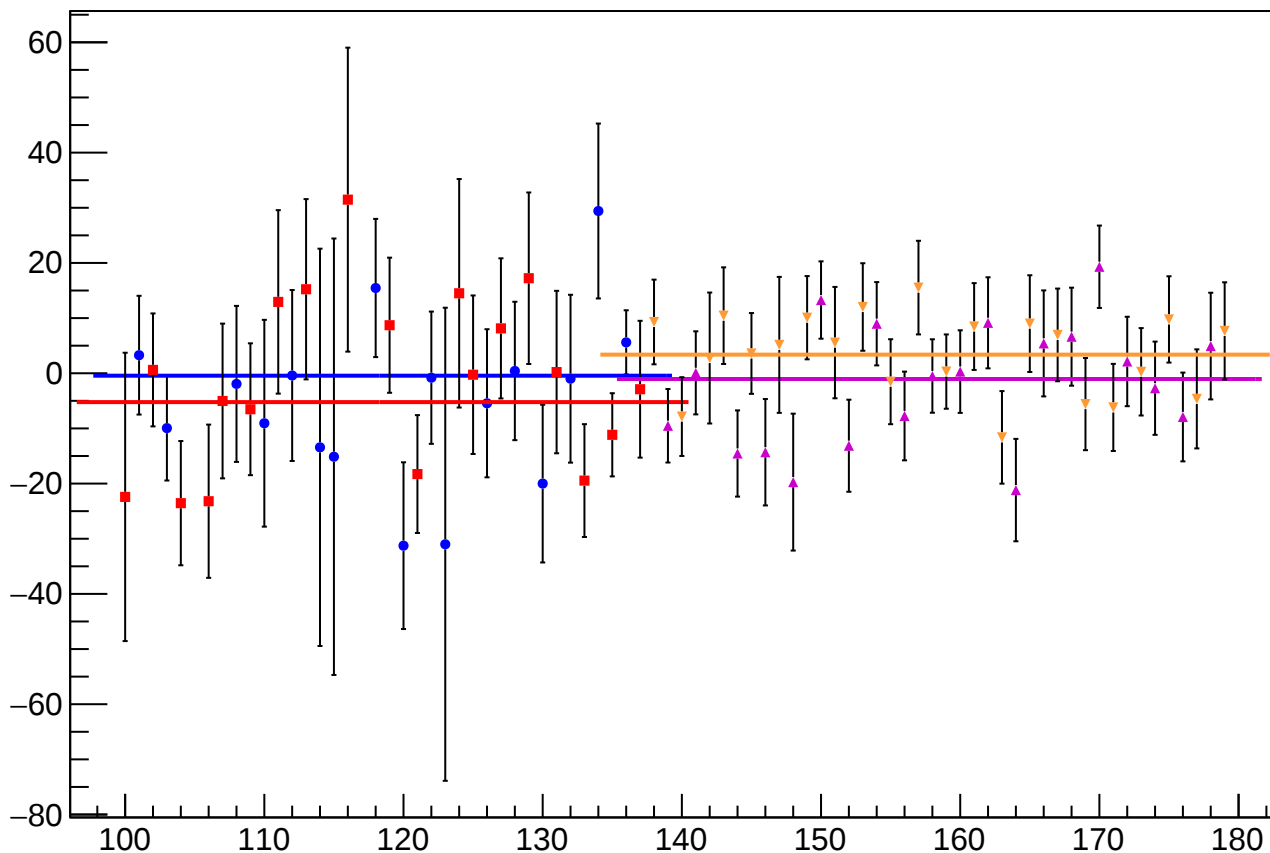
Right: 14490.533 $\pm$ 2.821 χ^2 /NDF: 1085397.6/35

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

Out: 10127.875 $\pm$ 1.513 χ^2 /NDF:2391452.4/40

All: 10135.289 $\pm$ 1.088 χ^2 /NDF: 4444461.5/71

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 3.376 ± 1.758 χ^2/NDF : 17.1/21

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: 1.231 ± 1.262 χ^2/NDF : 53.9/41

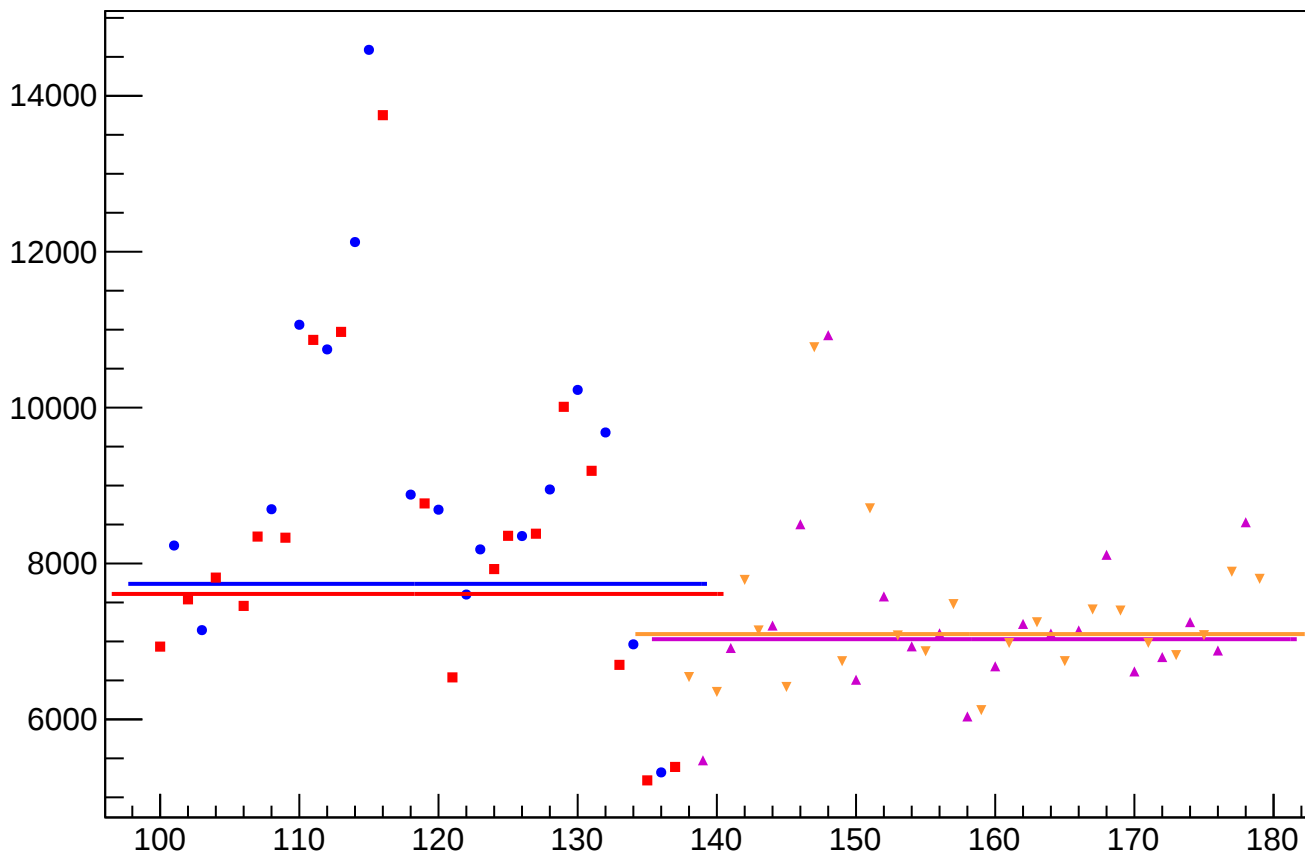
Right: -2.943 ± 2.122 χ^2/NDF : 35.2/35

In: -0.888 ± 1.560 χ^2/NDF : 48.3/36

Out: 1.104 ± 1.508 χ^2/NDF : 42.8/40

All: 0.141 ± 1.084 χ^2/NDF : 91.9/77

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7094.504+/-1.243 χ^2/NDF : 378595.0/21

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

Left In: 7028.950+/-1.281 χ^2/NDF : 512444.3/19

Left: 7062.693+/-0.892 χ^2/NDF : 892388.3/41

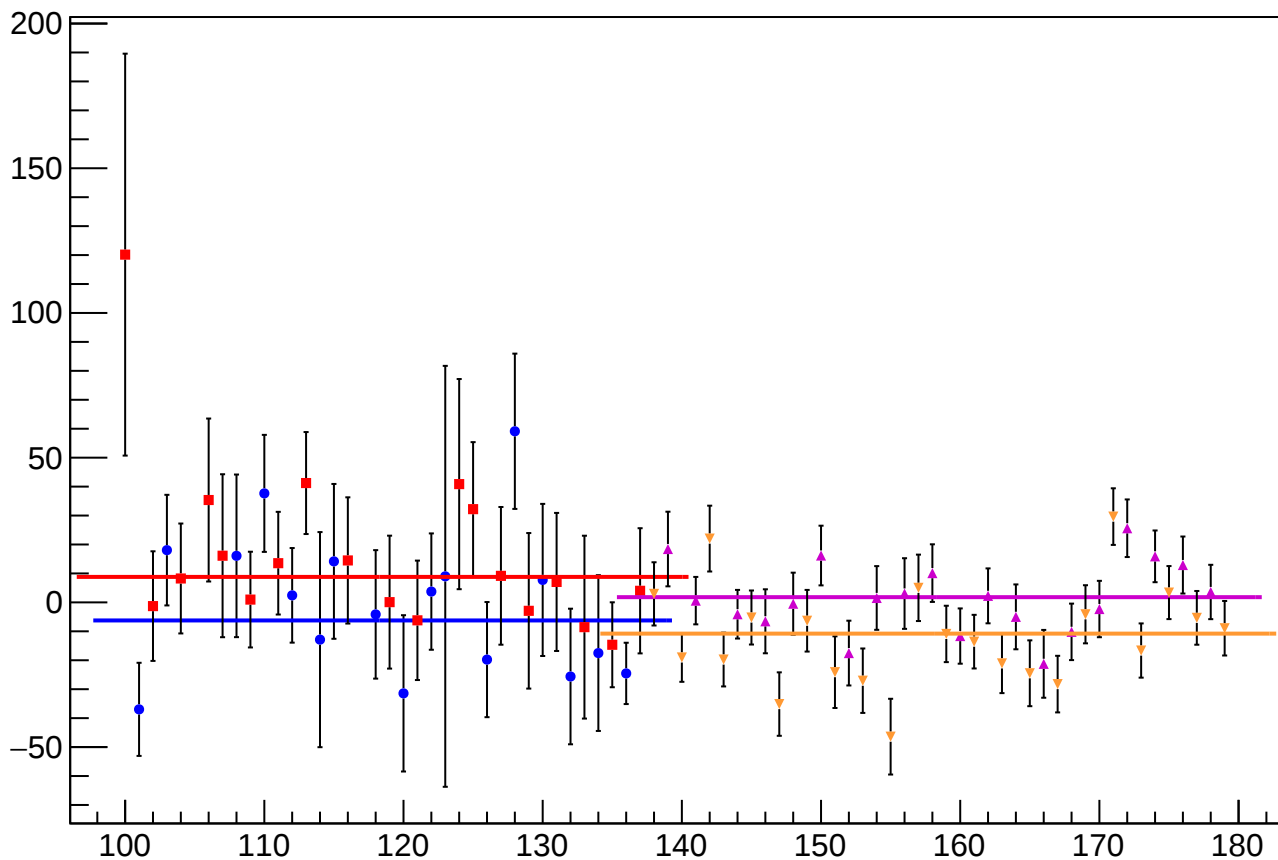
Right: 7671.298+/-1.501 χ^2/NDF : 1421871.4/35

In: 7212.122+/-1.103 χ^2/NDF : 1332584.8/36

Out: 7230.480+/-1.067 χ^2/NDF : 1103075.7/40

All: 7221.609+/-0.767 χ^2/NDF : 2435803.6/77

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -10.796 ± 2.157 χ^2/NDF : 56.3/21

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: -4.769 ± 1.558 χ^2/NDF : 98.4/41

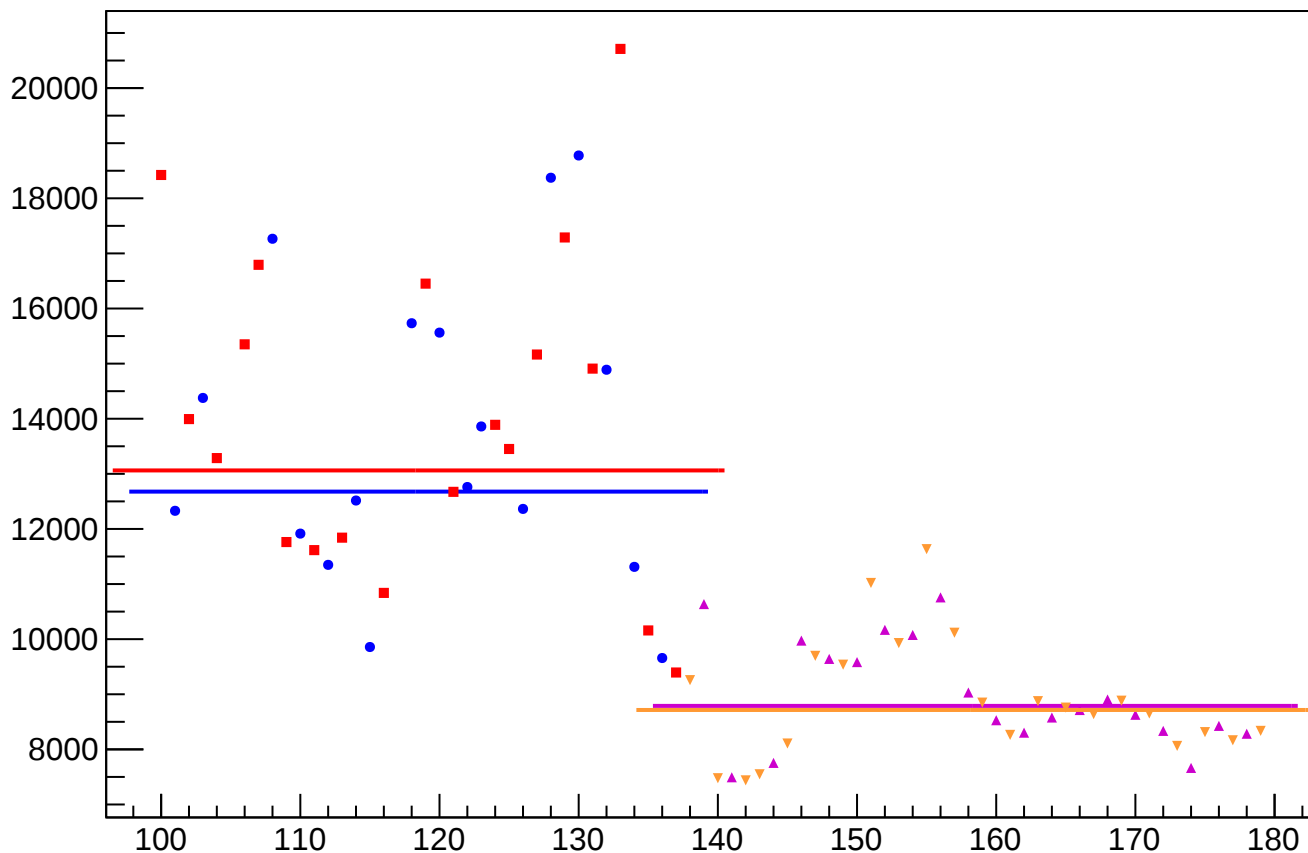
Right: 1.306 ± 3.541 χ^2/NDF : 40.9/35

In: 0.452 ± 2.055 χ^2/NDF : 51.2/36

Out: -7.719 ± 1.981 χ^2/NDF : 82.4/40

All: -3.784 ± 1.426 χ^2/NDF : 141.8/77

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8714.959 $\pm$ 1.526 χ^2 /NDF:394018.0/21

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: 8750.401 $\pm$ 1.102 χ^2 /NDF: 727731.6/41

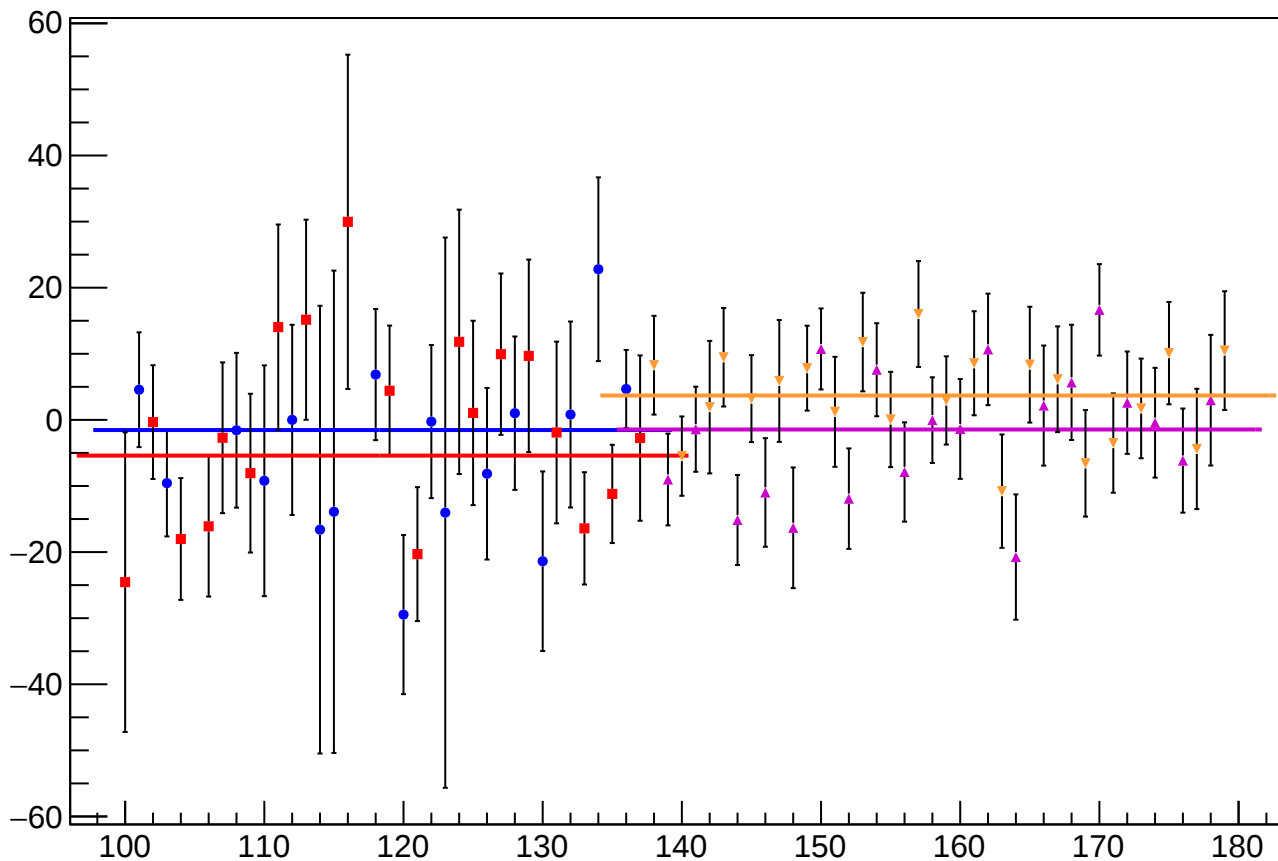
Right: 12870.370 $\pm$ 2.504 χ^2 /NDF: 1056923.6/35

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

Out: 9397.432 $\pm$ 1.401 χ^2 /NDF:2166108.2/40

All: 9418.640 $\pm$ 1.009 χ^2 /NDF: 4052487.7/77

diff_bpm4eY_mean vs Slug, Sign Corrected



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

Left Out: 3.689 ± 1.638 χ^2/NDF : 16.0/21

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

Left In: -1.453 ± 1.702 χ^2/NDF : 32.2/19

Left: 1.216 ± 1.180 χ^2/NDF : 52.9/41

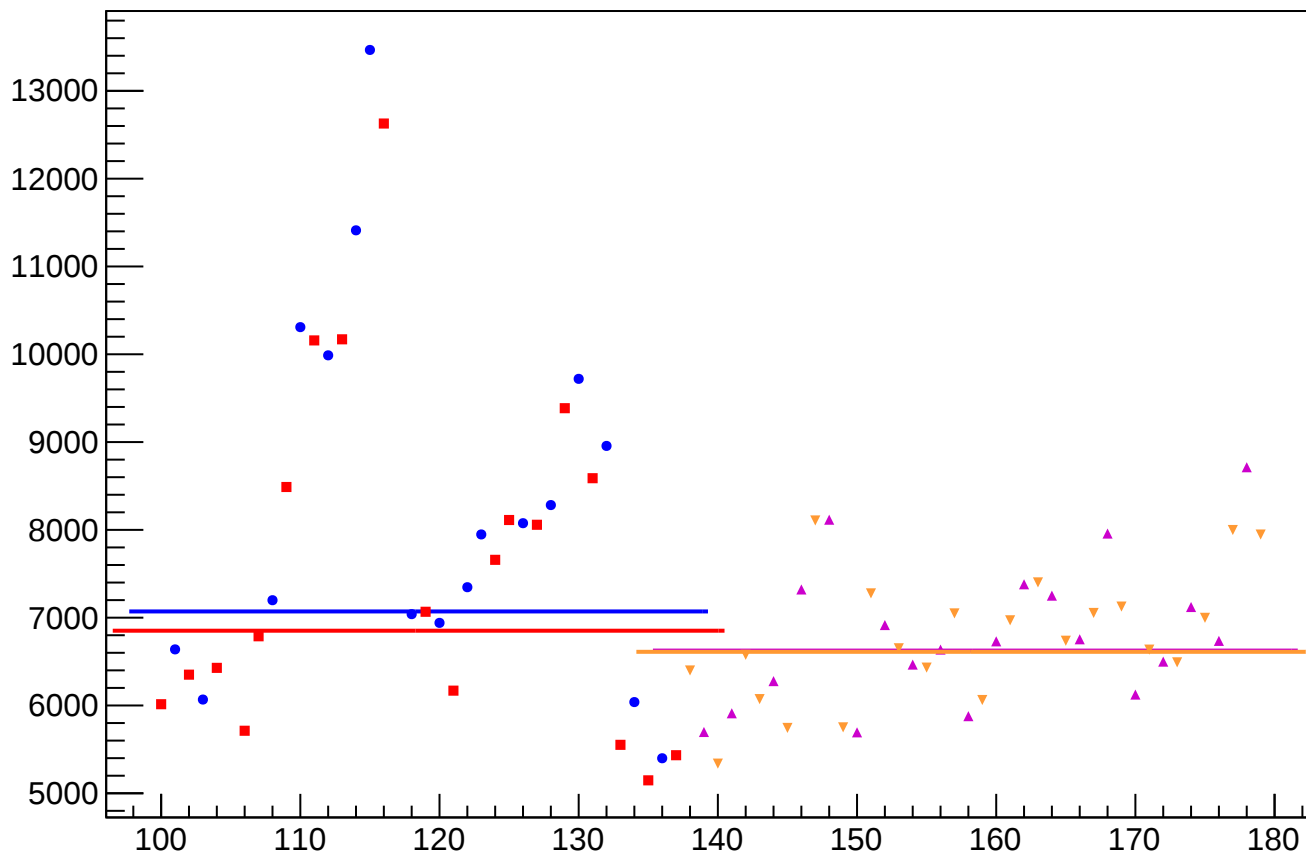
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -1.476 ± 1.453 χ^2/NDF : 47.1/36

Out: 1.161 ± 1.392 χ^2/NDF : 43.1/40

All: -0.101 ± 1.005 χ^2/NDF : 91.9/77

diff_bpm4eY_rms vs Slug, Sign Corrected



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

Left Out: 6611.197+/-1.158 χ^2/NDF : 391064.0/21

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: 6617.951+/-0.835 χ^2/NDF : 781155.4/41

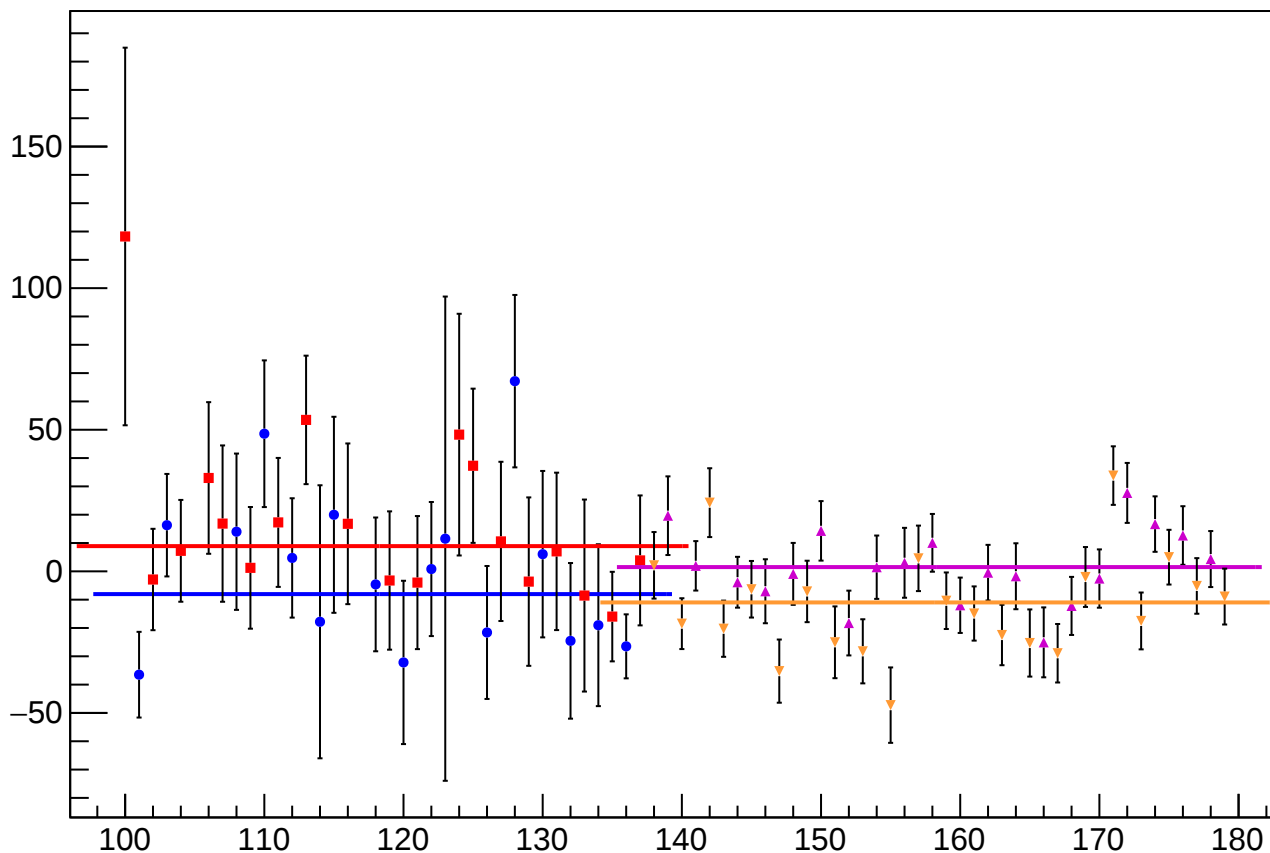
Right: 6955.236+/-1.356 χ^2/NDF : 1291674.4/35

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

Out: 6678.037+/-0.984 χ^2/NDF : 1087440.0/40

All: 6710.610+/-0.711 χ^2/NDF : 2117707.0/77

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -10.980 $\pm$ 2.258 χ^2/NDF : 57.9/21

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: -4.997 $\pm$ 1.630 χ^2/NDF : 98.8/41

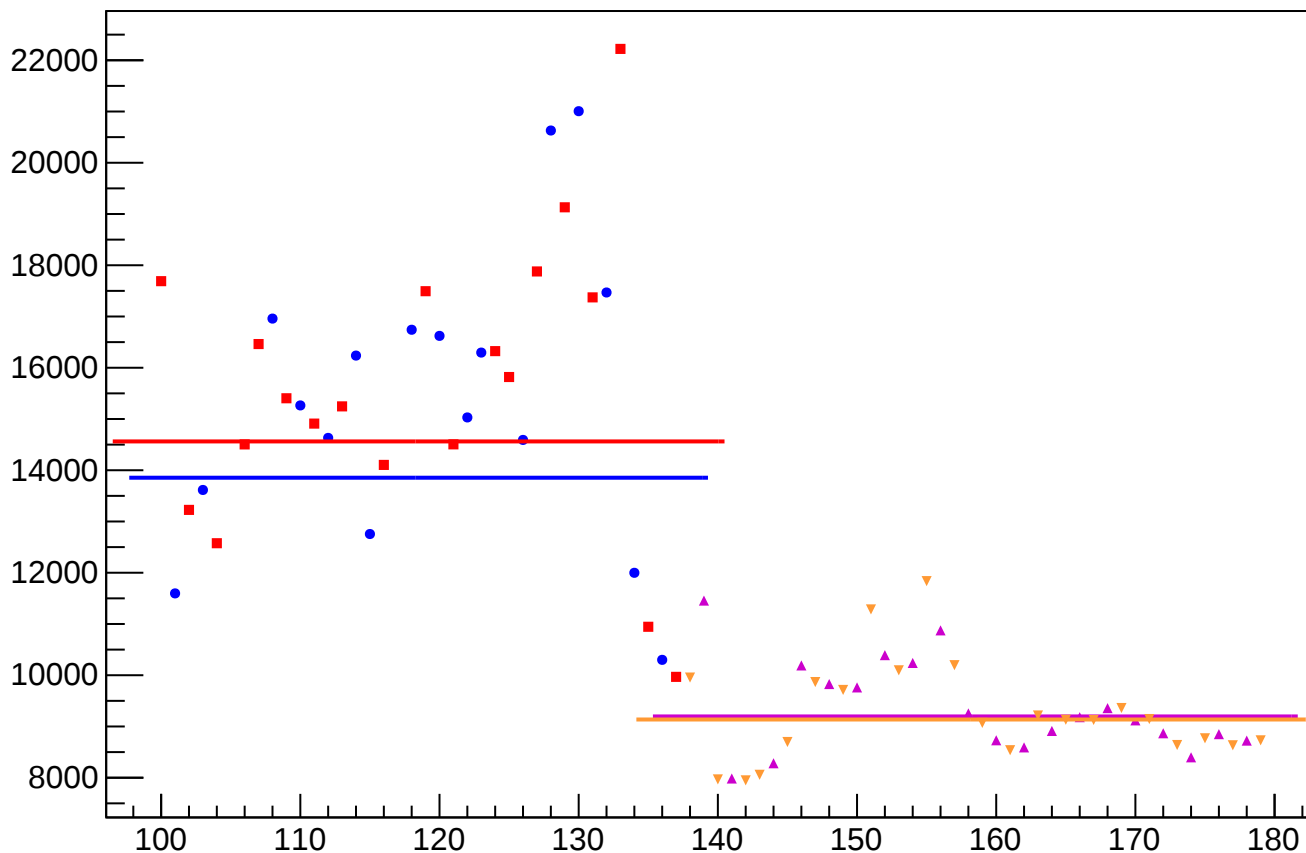
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

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

Out: -8.169 $\pm$ 2.093 χ^2/NDF : 82.6/40

All: -4.209 $\pm$ 1.504 χ^2/NDF : 141.4/77

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9136.141 $\pm$ 1.597 χ^2 /NDF: 300726.7/21

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: 9164.780 $\pm$ 1.152 χ^2 /NDF: 553891.2/41

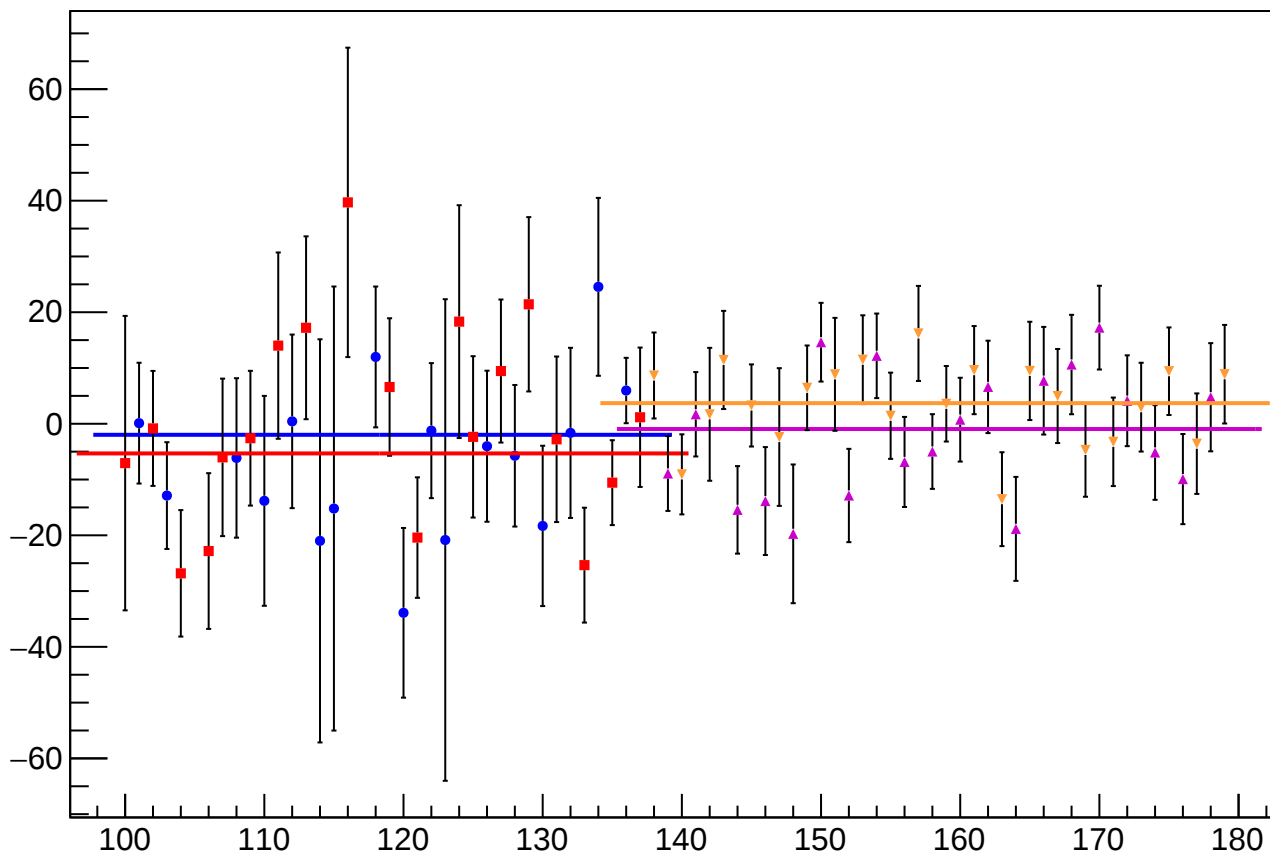
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

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

Out: 9903.047 $\pm$ 1.480 χ^2 /NDF: 2407034.5/40

All: 9910.141 $\pm$ 1.064 χ^2 /NDF: 4474065.0/77

diff_bpm4acY_mean vs Slug, Sign Corrected



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

Left Out: 3.699 ± 1.766 χ^2/NDF : 16.7/21

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: 1.447 ± 1.267 χ^2/NDF : 55.0/41

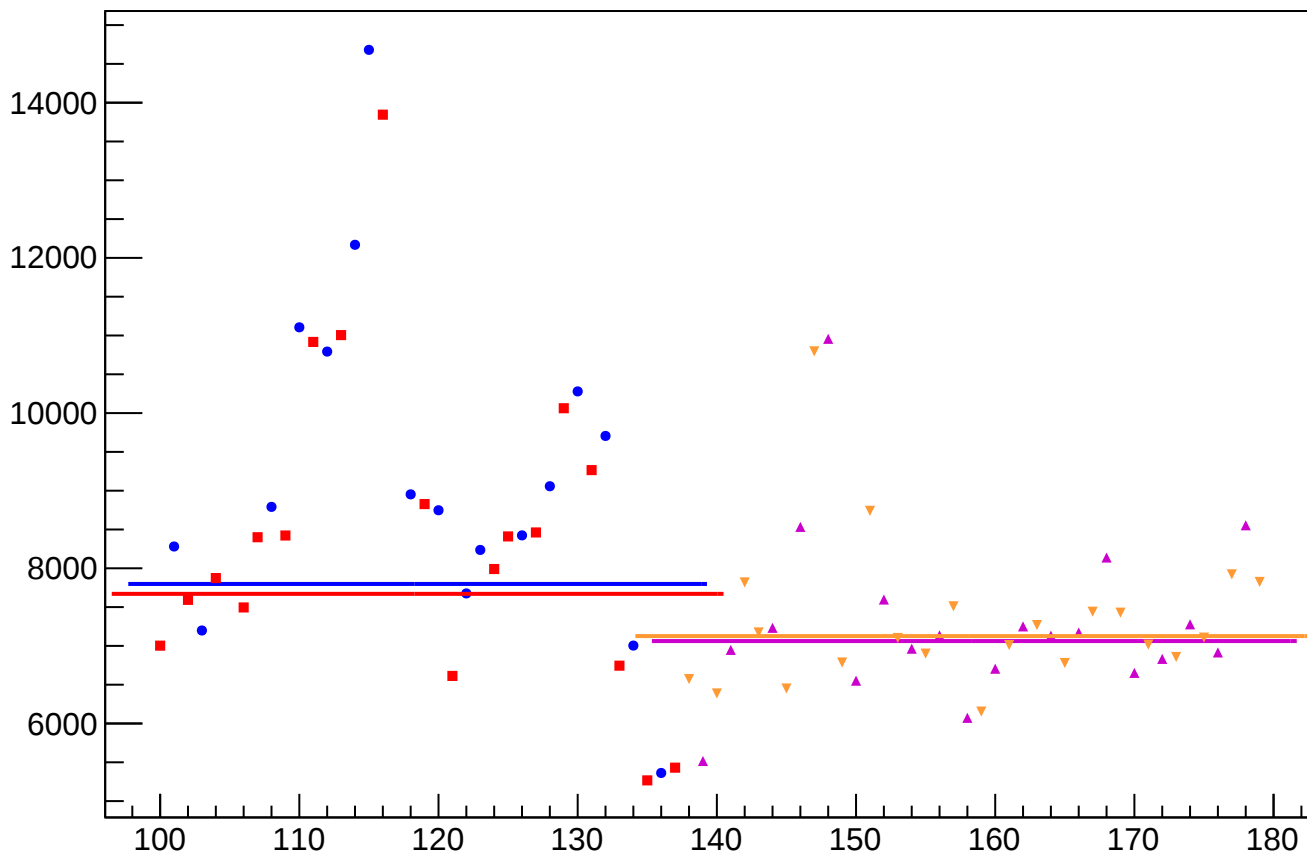
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -1.208 ± 1.568 χ^2/NDF : 49.1/36

Out: 1.330 ± 1.516 χ^2/NDF : 47.9/40

All: 0.104 ± 1.090 χ^2/NDF : 98.3/77

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7126.338+/-1.249 χ^2/NDF : 373878.5/21

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: 7095.278+/-0.896 χ^2/NDF : 879679.2/41

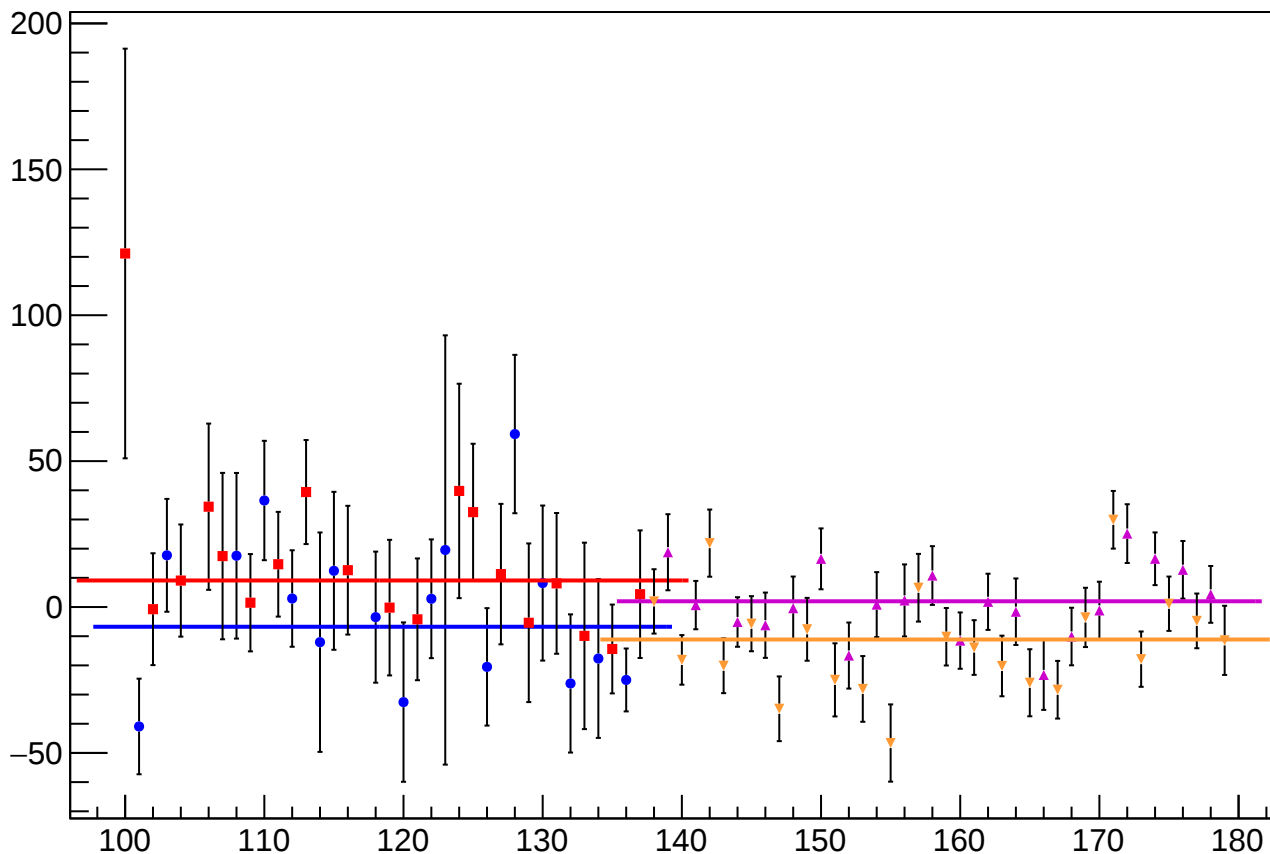
Right: 7731.569+/-1.512 χ^2/NDF : 1410753.9/35

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

Out: 7269.315+/-1.072 χ^2/NDF : 1096471.5/40

All: 7260.653+/-0.771 χ^2/NDF : 2421504.9/77

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

Left Out: -11.128 ± 2.202 χ^2/NDF : 55.3/21

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

Left In: 1.971 ± 2.282 χ^2/NDF : 25.6/19

Left: -4.811 ± 1.585 χ^2/NDF : 98.0/41

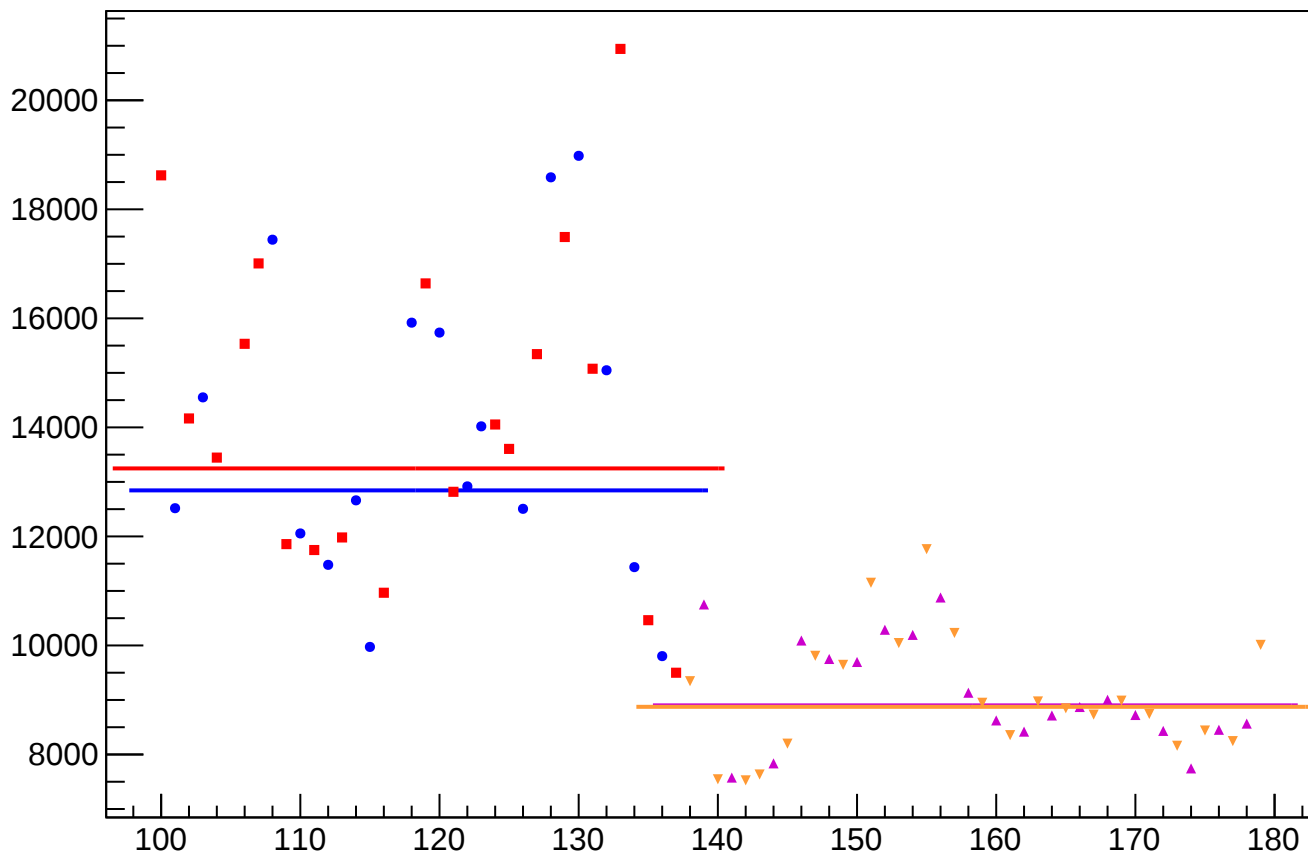
Right: 1.193 ± 3.590 χ^2/NDF : 40.8/35

In: 0.507 ± 2.082 χ^2/NDF : 51.8/36

Out: -7.917 ± 2.020 χ^2/NDF : 80.9/40

All: -3.832 ± 1.450 χ^2/NDF : 141.2/77

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8874.320+/-1.557 χ^2/NDF : 410522.0/21

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: 8887.083+/-1.121 χ^2/NDF : 741203.5/41

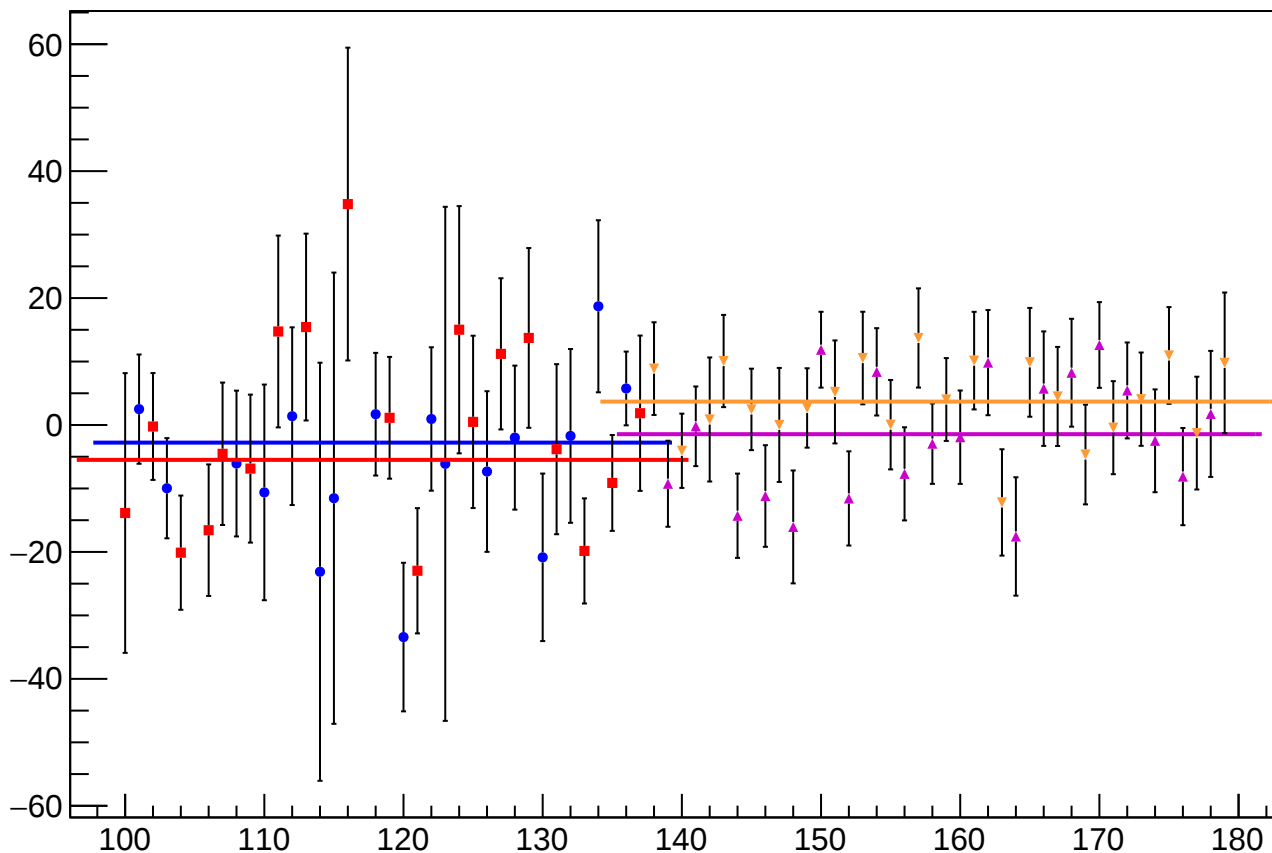
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

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

Out: 9568.331+/-1.428 χ^2/NDF : 2147491.9/40

All: 9565.261+/-1.025 χ^2/NDF : 4026620.0/77

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

Left Out: 3.689+/-1.609 χ^2/NDF :14.0/21

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: 1.207+/-1.157 χ^2/NDF : 50.6/41

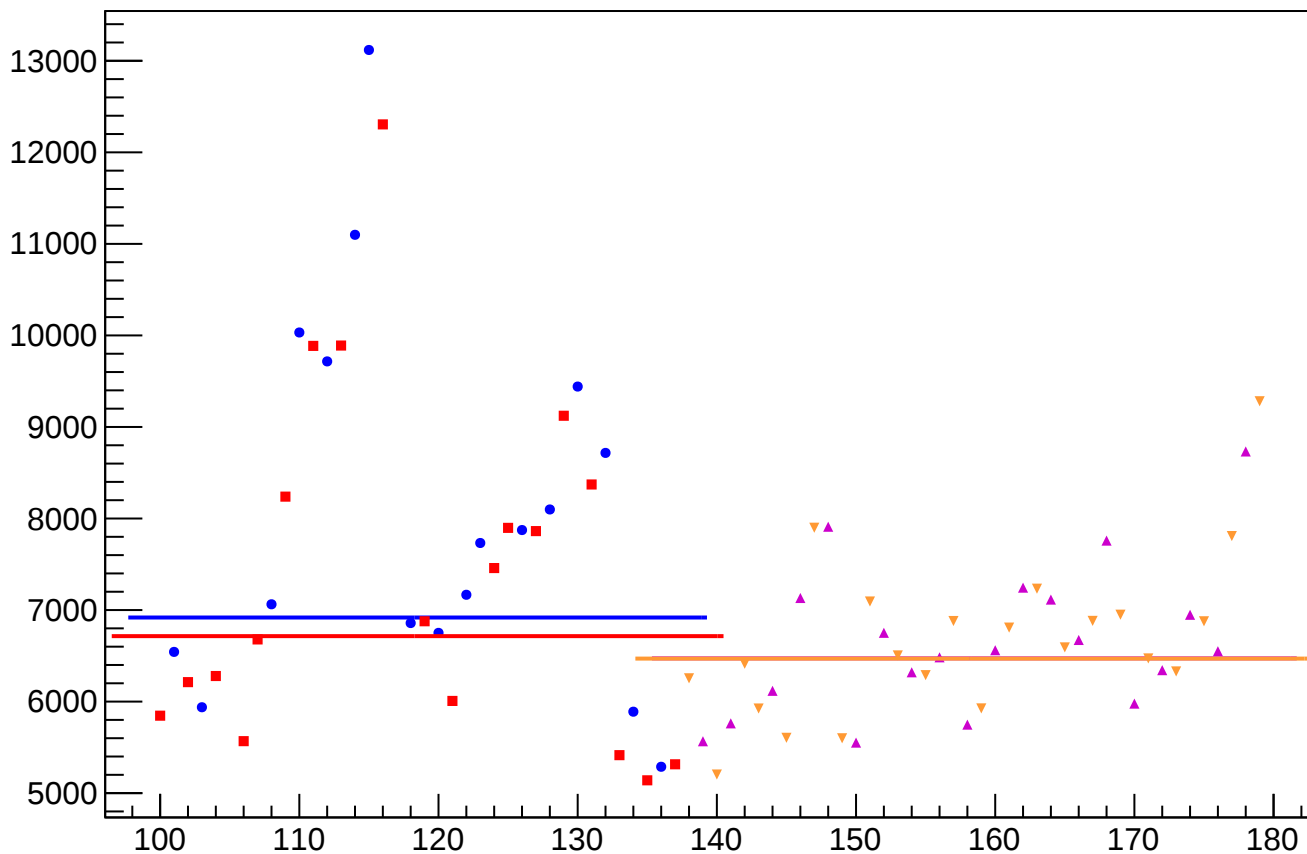
Right: -4.206+/-1.879 χ^2/NDF : 39.6/35

In: -1.804+/-1.421 χ^2/NDF :47.8/36

Out: 1.128+/-1.367 χ^2/NDF :46.2/40

All: -0.281+/-0.985 χ^2/NDF : 96.2/77

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6469.723 ± 1.138 $\chi^2/\text{NDF}: 479501.5/21$

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: 6470.882 ± 0.818 $\chi^2/\text{NDF}: 885649.9/41$

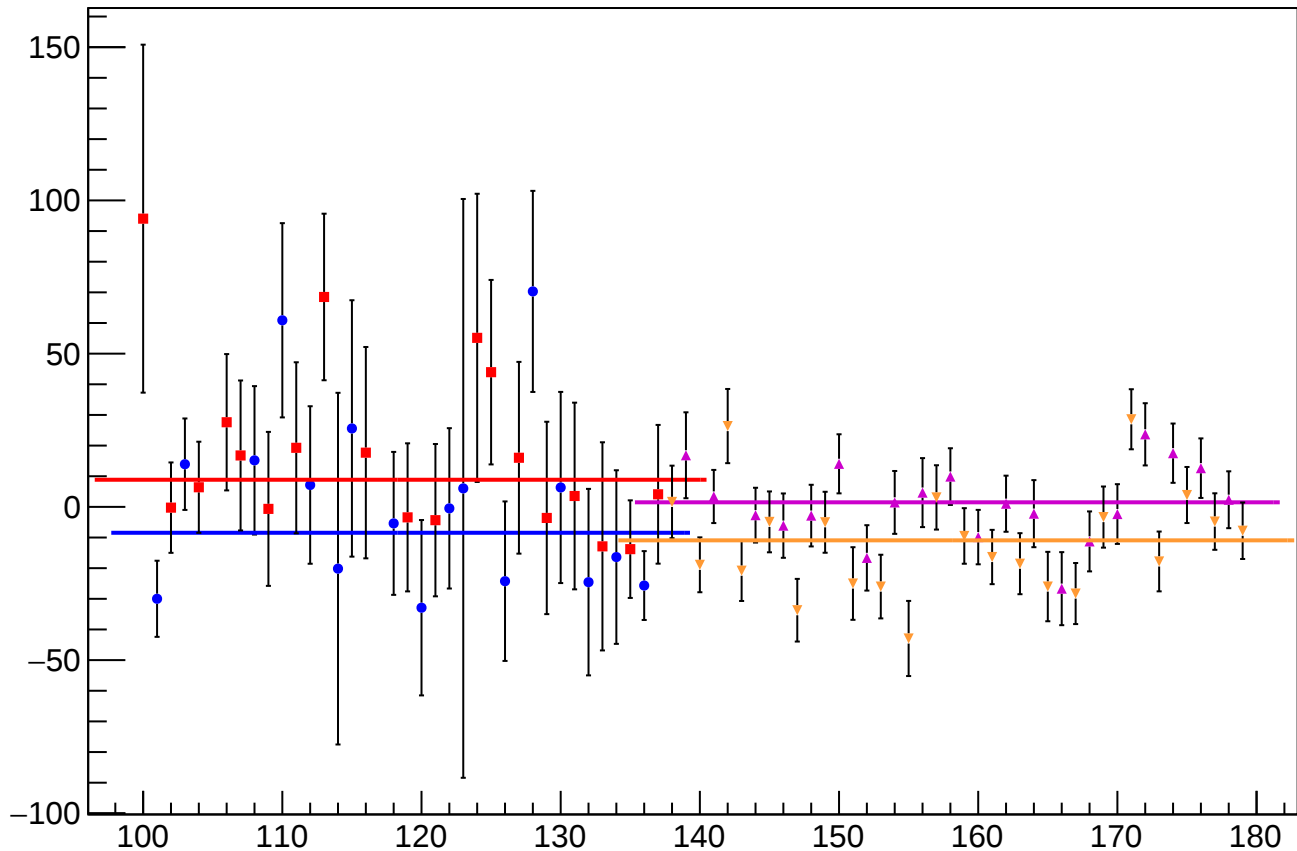
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

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

Out: 6538.149 ± 0.966 $\chi^2/\text{NDF}: 1148473.1/40$

All: 6564.452 ± 0.696 $\chi^2/\text{NDF}: 2182152.6/77$

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -10.921 $\pm$ 2.142 χ^2/NDF : 56.5/21

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

Left In: 1.490 $\pm$ 2.224 χ^2/NDF : 25.7/19

Left: -4.949 $\pm$ 1.543 χ^2/NDF : 98.4/41

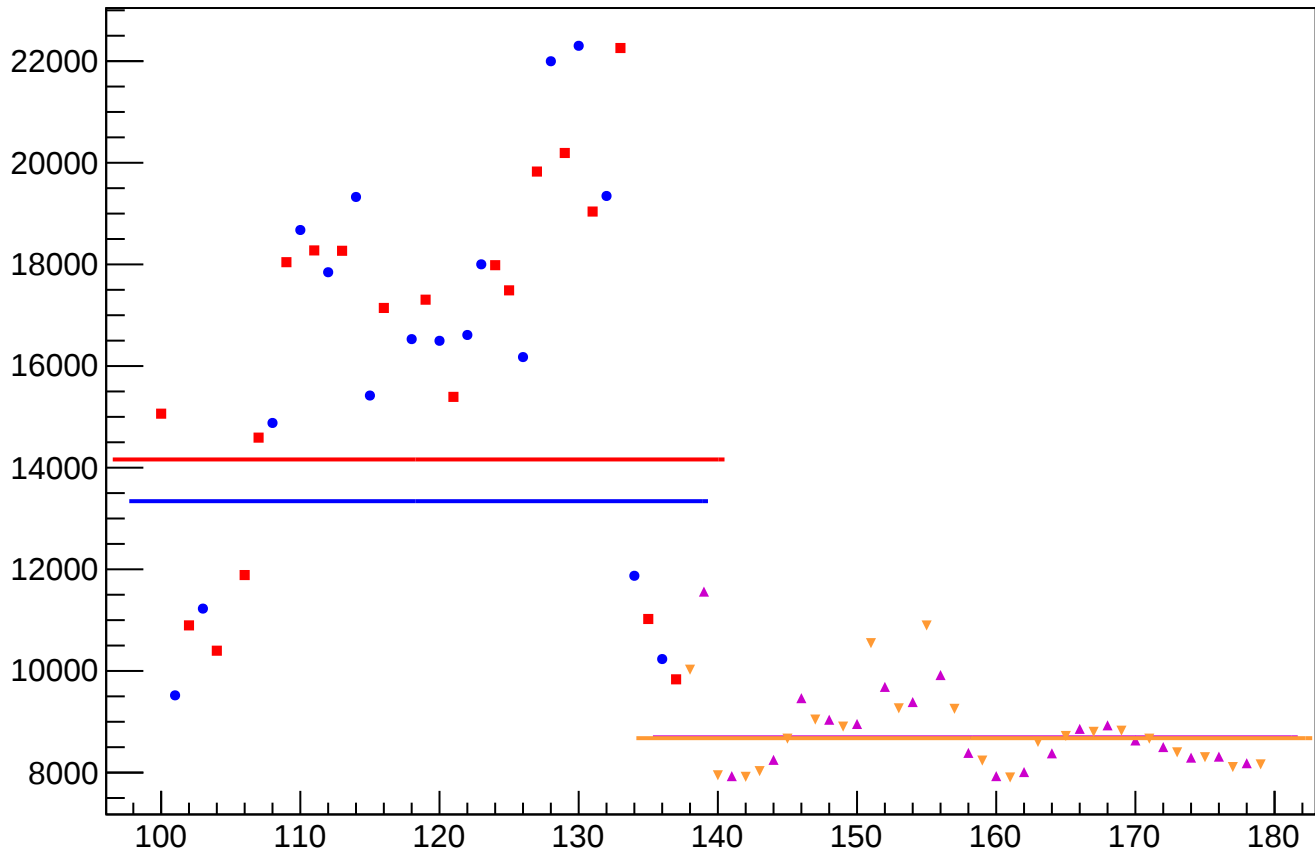
Right: 0.019 $\pm$ 3.854 χ^2/NDF : 41.3/35

In: 0.045 $\pm$ 2.056 χ^2/NDF : 50.6/36

Out: -8.323 $\pm$ 1.997 χ^2/NDF : 82.0/40

All: -4.263 $\pm$ 1.432 χ^2/NDF : 141.1/77

diff_bpm1X_rms vs Slug, Sign Corrected



Left: 8685.414 $\pm$ 1.091 χ^2/NDF : 440450.2/41

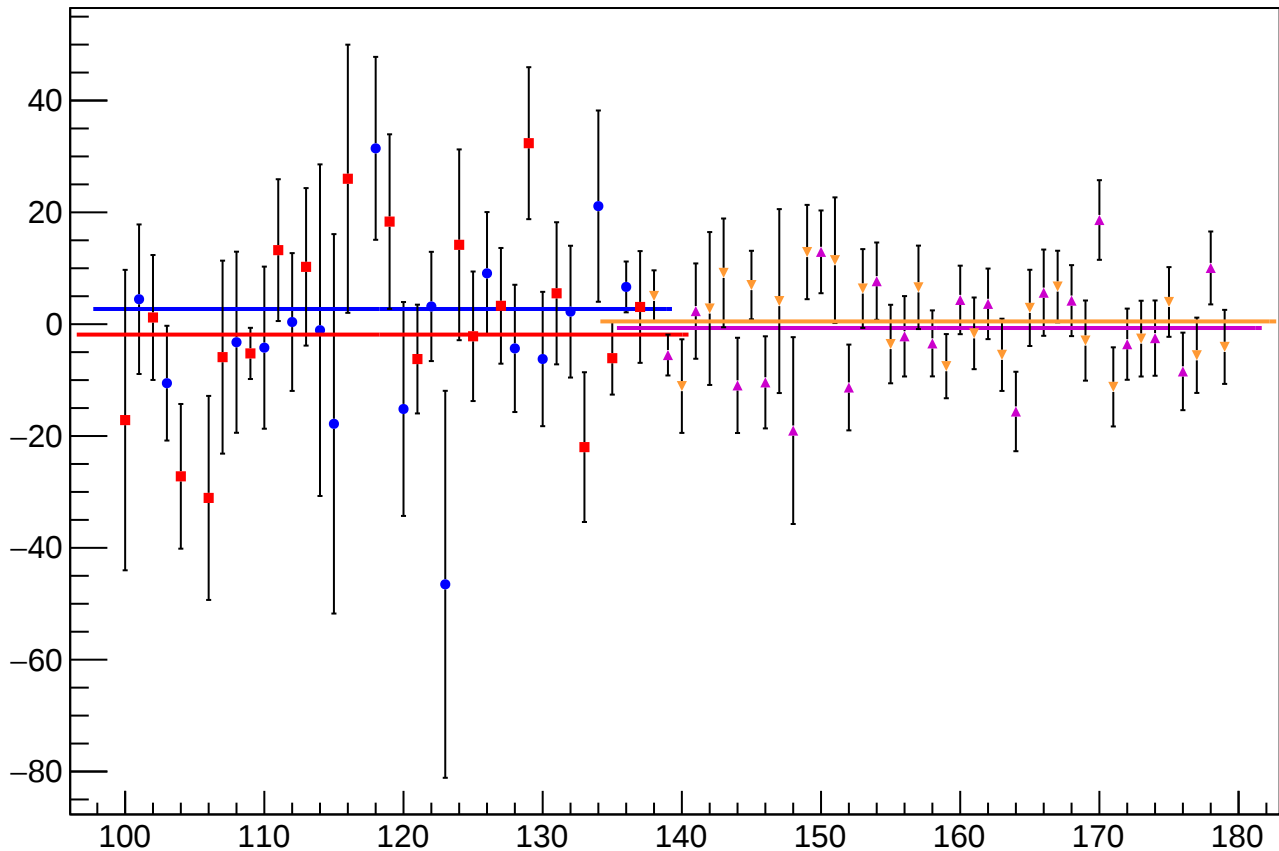
Right: 13742.695 $\pm$ 2.725 χ^2/NDF : 1999035.6/35

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

Out: 9397.828 $\pm$ 1.412 χ^2/NDF : 2880848.9/40

All: 9384.215 $\pm$ 1.013 χ^2/NDF : 5408160.0/77

diff_bpm1Y_mean vs Slug, Sign Corrected



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

Left Out: 0.496 ± 1.499 $\chi^2/\text{NDF}: 18.5/21$

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

Left In: -0.684 ± 1.492 $\chi^2/\text{NDF}: 31.4/19$

Left: -0.097 ± 1.058 $\chi^2/\text{NDF}: 50.2/41$

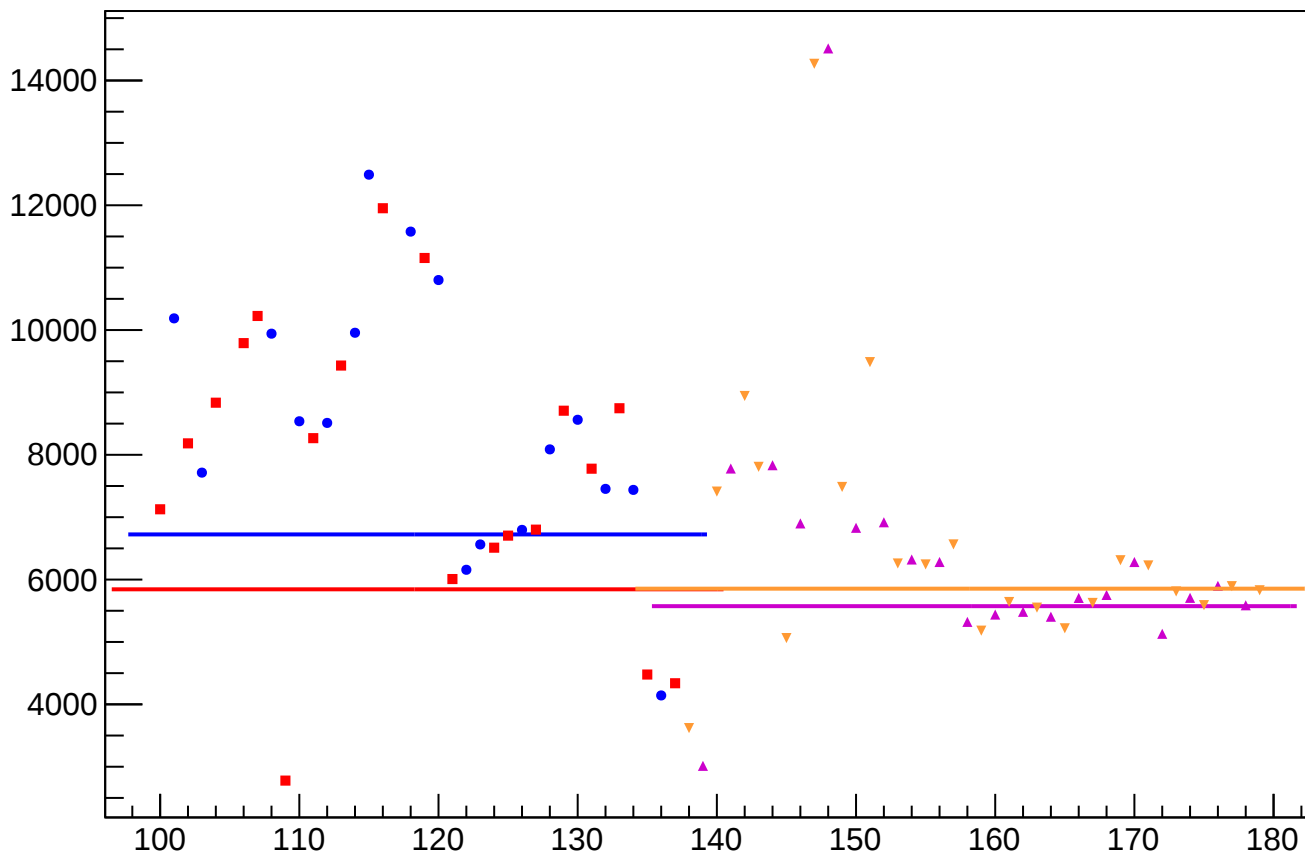
Right: 0.153 ± 1.825 $\chi^2/\text{NDF}: 36.7/35$

In: 0.089 ± 1.312 $\chi^2/\text{NDF}: 44.2/36$

Out: -0.151 ± 1.277 $\chi^2/\text{NDF}: 42.7/40$

All: -0.034 ± 0.915 $\chi^2/\text{NDF}: 86.9/77$

diff_bpm1Y_rms vs Slug, Sign Corrected



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

Left Out: 5854.255+/-1.060 χ^2/NDF : 1670922.3/21

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: 5713.405+/-0.748 χ^2/NDF : 3790949.6/41

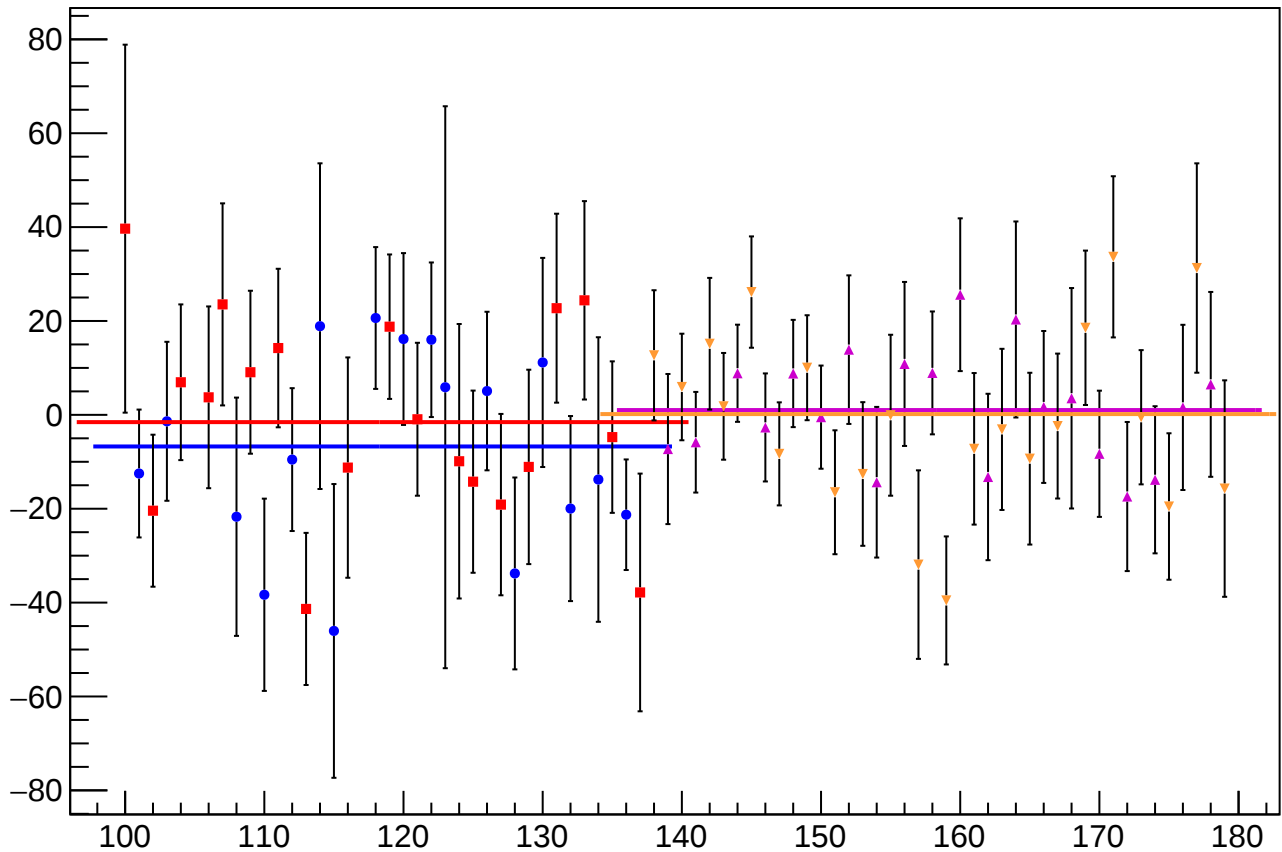
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

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

Out: 5851.396+/-0.903 χ^2/NDF : 3948172.7/40

All: 5843.496+/-0.647 χ^2/NDF : 7695171.3/77

diff_bpm11X_mean vs Slug, Sign Corrected



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

Left Out: 0.164 ± 3.088 χ^2/NDF : 31.3/21

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: 0.575 ± 2.228 χ^2/NDF : 42.1/41

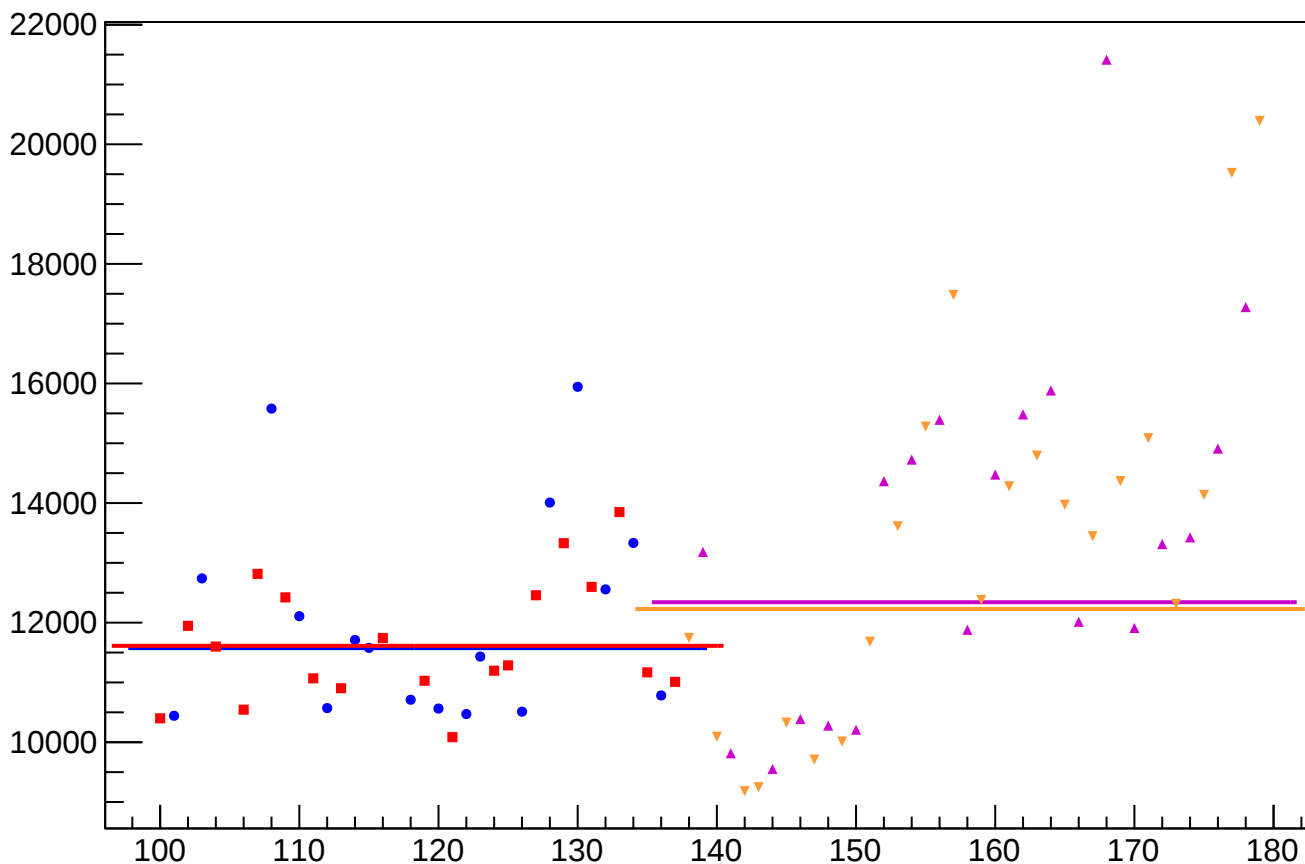
Right: -4.061 ± 3.140 χ^2/NDF : 37.5/35

In: -1.592 ± 2.619 χ^2/NDF : 29.5/36

Out: -0.407 ± 2.523 χ^2/NDF : 51.4/40

All: -0.977 ± 1.817 χ^2/NDF : 81.0/77

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 12227.951+/-2.184 χ^2/NDF : 1451907.1/21

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: 12282.509+/-1.575 χ^2/NDF : 2695057.3/41

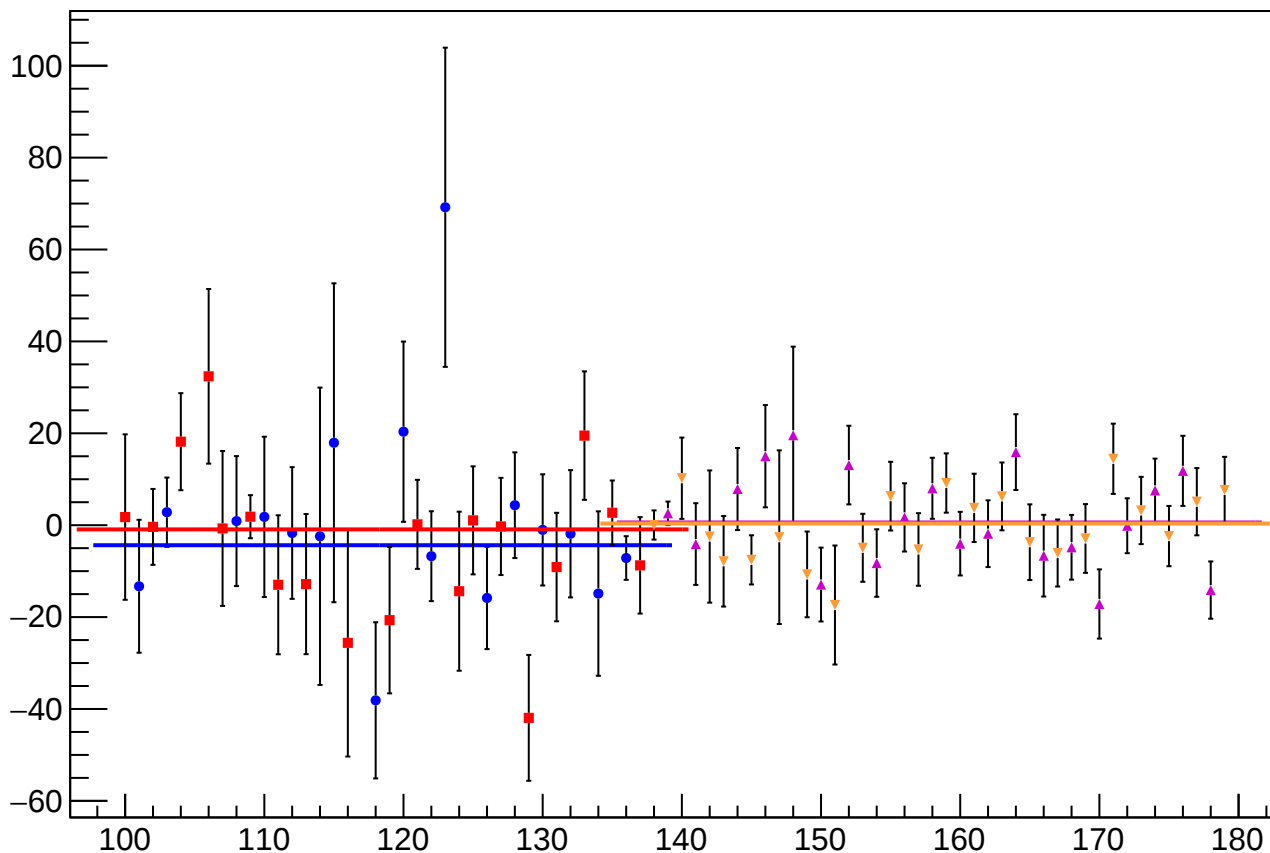
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

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

Out: 12023.000+/-1.784 χ^2/NDF : 1572675.8/40

All: 12051.838+/-1.285 χ^2/NDF : 3092233.2/77

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.361 ± 2.776 $\chi^2/\text{NDF}: 14.5/16$

Left Out: 0.366 ± 1.502 $\chi^2/\text{NDF}: 18.2/21$

Right Out: -0.914 ± 2.426 $\chi^2/\text{NDF}: 23.5/18$

Left In: 0.592 ± 1.453 $\chi^2/\text{NDF}: 31.4/19$

Left: 0.483 ± 1.045 $\chi^2/\text{NDF}: 49.7/41$

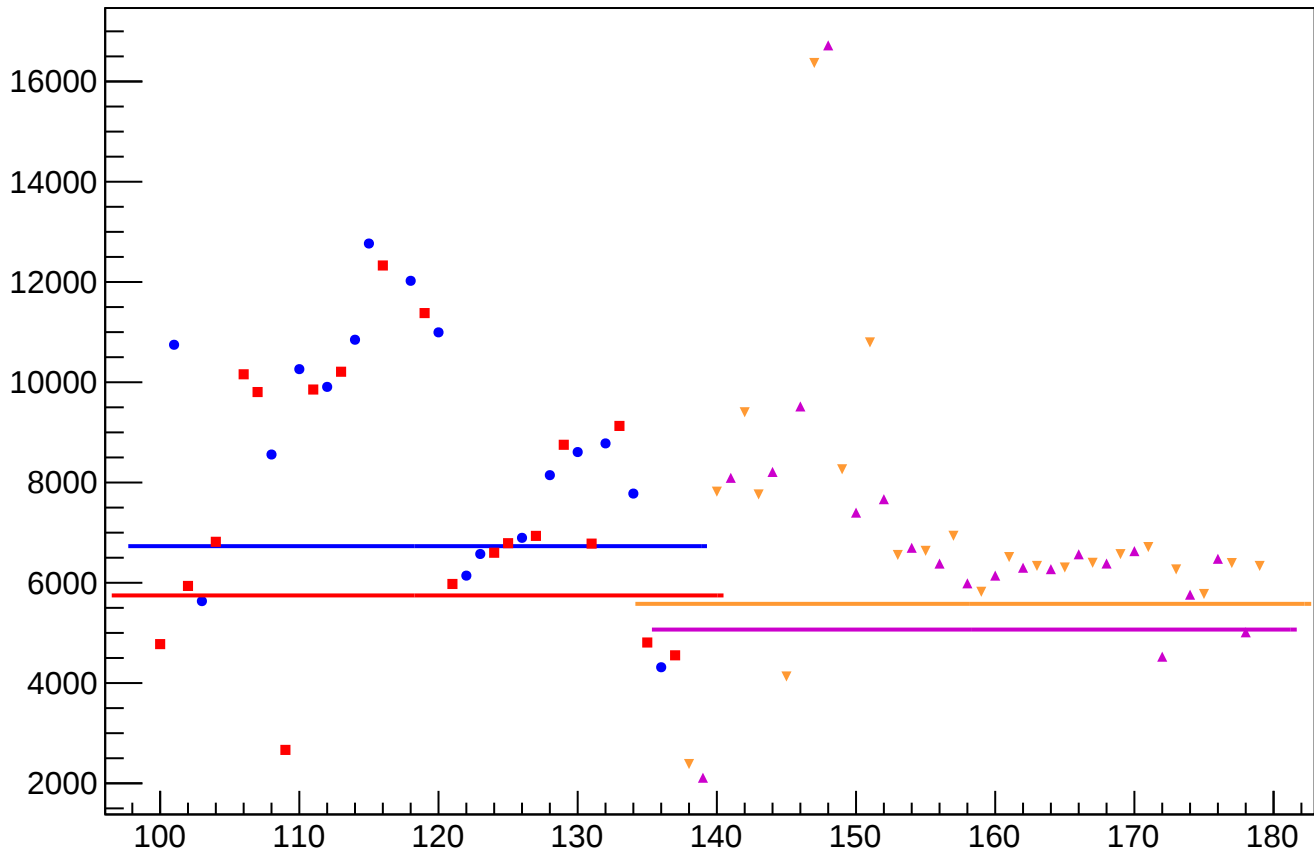
Right: -2.407 ± 1.827 $\chi^2/\text{NDF}: 38.9/35$

In: -0.473 ± 1.287 $\chi^2/\text{NDF}: 48.5/36$

Out: 0.011 ± 1.277 $\chi^2/\text{NDF}: 42.0/40$

All: -0.229 ± 0.907 $\chi^2/\text{NDF}: 90.5/77$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.725 ± 1.963 $\chi^2/\text{NDF}: 1445240.4/16$

Left Out: 5579.863 ± 1.062 $\chi^2/\text{NDF}: 4052370.4/21$

Right Out: 5747.643 ± 1.716 $\chi^2/\text{NDF}: 2162236.7/18$

Left In: 5066.823 ± 1.028 $\chi^2/\text{NDF}: 5213350.6/19$

Left: 5314.803 ± 0.739 $\chi^2/\text{NDF}: 9386214.3/41$

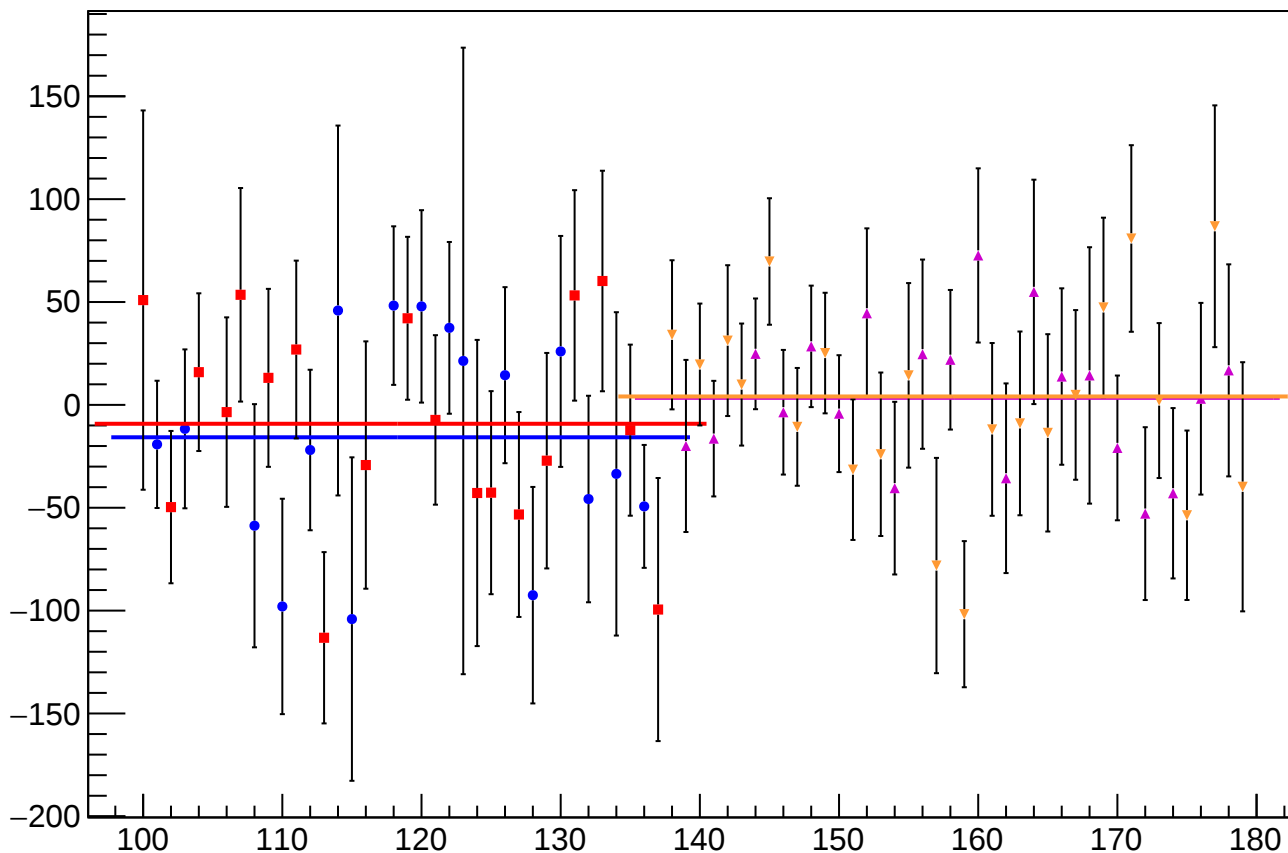
Right: 6173.310 ± 1.292 $\chi^2/\text{NDF}: 3749669.1/35$

In: 5424.655 ± 0.910 $\chi^2/\text{NDF}: 7222489.9/36$

Out: 5626.369 ± 0.903 $\chi^2/\text{NDF}: 6221521.1/40$

All: 5526.312 ± 0.641 $\chi^2/\text{NDF}: 13468752.6/77$

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 4.086 ± 8.077 χ^2/NDF : 28.6/21

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

Left In: 3.429 ± 8.406 χ^2/NDF : 12.9/19

Left: 3.771 ± 5.824 χ^2/NDF : 41.4/41

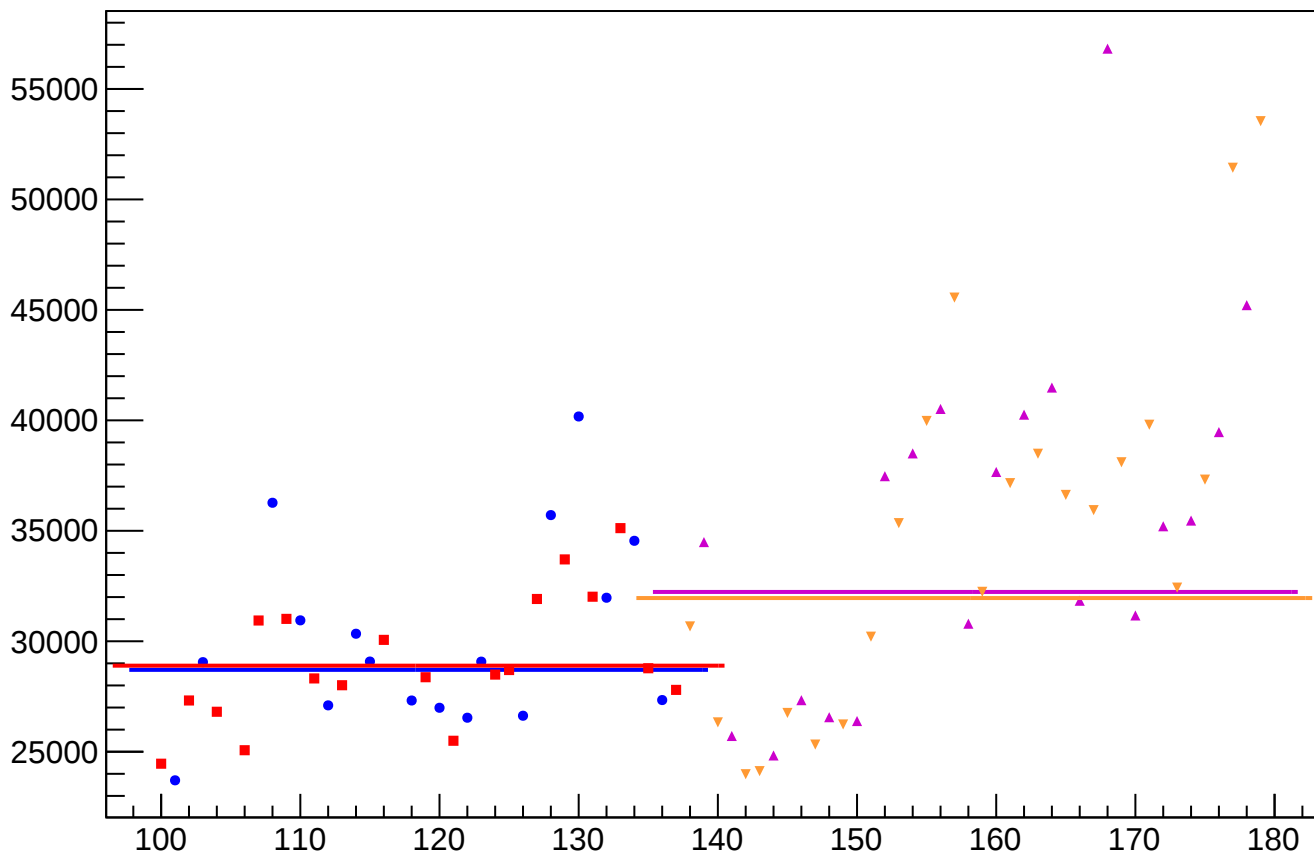
Right: -12.370 ± 7.810 χ^2/NDF : 35.4/35

In: -3.476 ± 6.725 χ^2/NDF : 30.6/36

Out: -0.622 ± 6.487 χ^2/NDF : 48.8/40

All: -1.998 ± 4.669 χ^2/NDF : 79.5/77

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569 ± 7.925 $\chi^2/\text{NDF}: 250992.5/16$

Left Out: 31956.080 ± 5.711 $\chi^2/\text{NDF}: 1487290.9/21$

Right Out: 28895.535 ± 7.700 $\chi^2/\text{NDF}: 111212.6/18$

Left In: 32232.431 ± 5.944 $\chi^2/\text{NDF}: 1282822.4/19$

Left: 32088.743 ± 4.118 $\chi^2/\text{NDF}: 2771237.3/41$

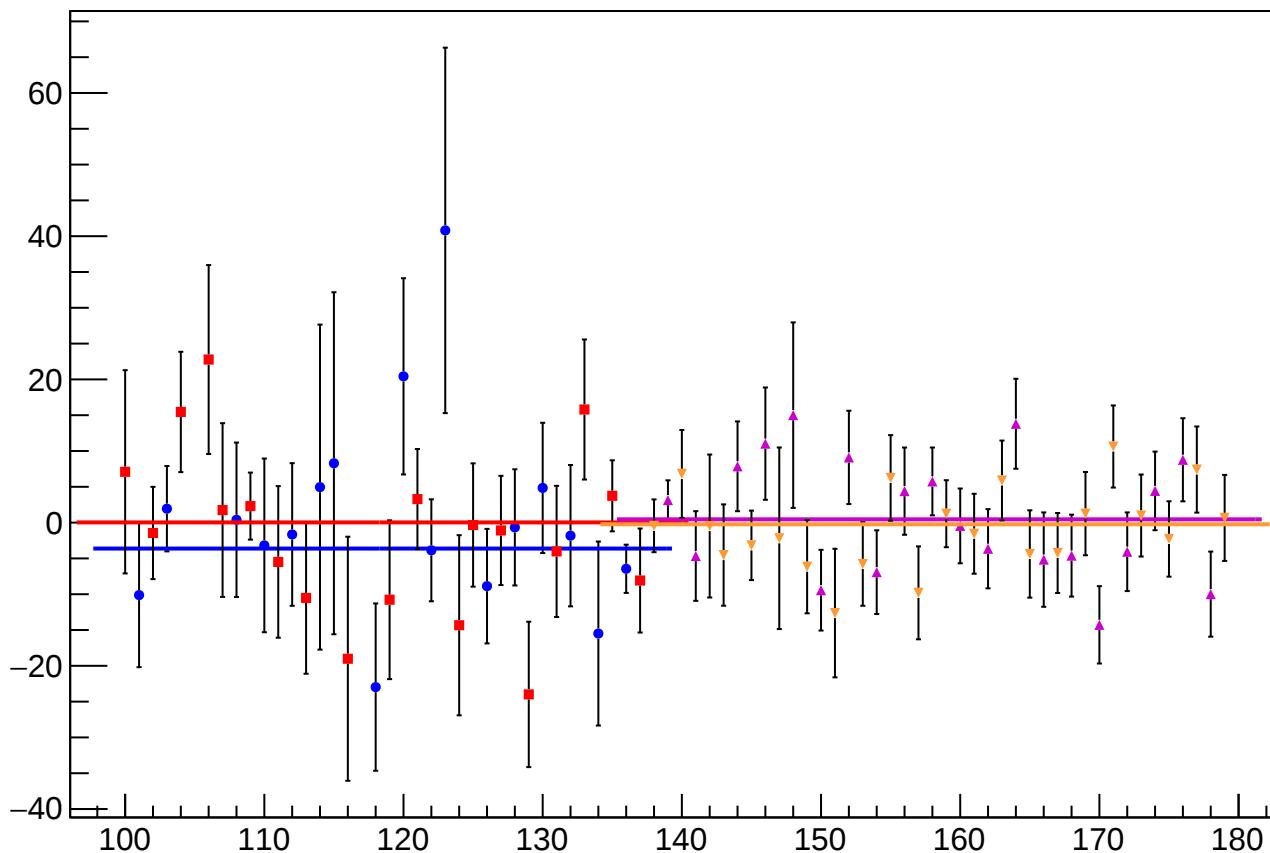
Right: 28803.288 ± 5.522 $\chi^2/\text{NDF}: 362500.7/35$

In: 30962.726 ± 4.755 $\chi^2/\text{NDF}: 1660569.8/36$

Out: 30869.870 ± 4.587 $\chi^2/\text{NDF}: 1700423.8/40$

All: 30914.630 ± 3.301 $\chi^2/\text{NDF}: 3361191.2/77$

diff_bpm12Y_mean vs Slug, Sign Corrected



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

Left Out: -0.234 ± 1.243 $\chi^2/\text{NDF}: 16.9/21$

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: 0.117 ± 0.872 $\chi^2/\text{NDF}: 51.6/41$

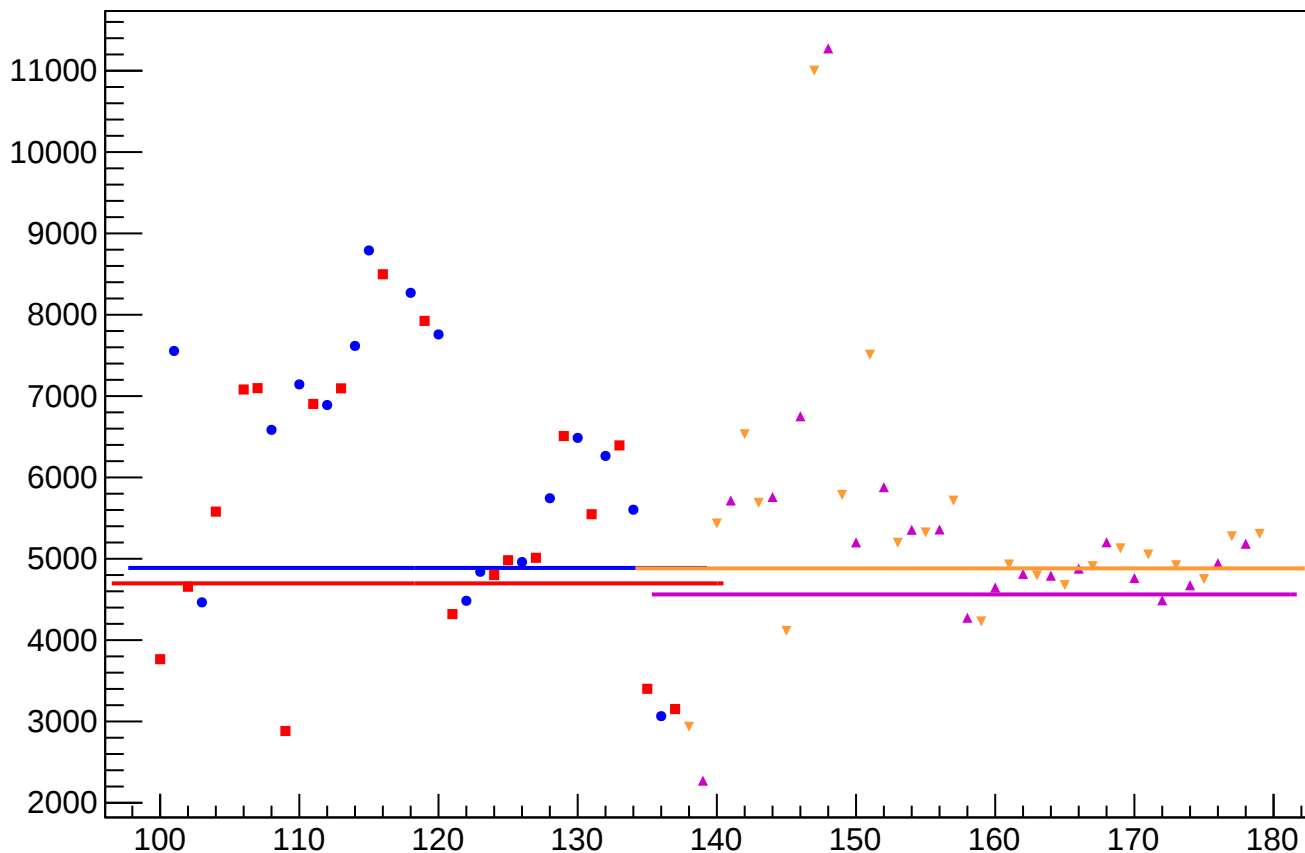
Right: -1.690 ± 1.376 $\chi^2/\text{NDF}: 37.6/35$

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

Out: -0.155 ± 1.039 $\chi^2/\text{NDF}: 39.0/40$

All: -0.401 ± 0.737 $\chi^2/\text{NDF}: 90.5/77$

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4882.094 $\pm$ 0.879 χ^2/NDF :1497749.3/21

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: 4719.443 $\pm$ 0.617 χ^2/NDF : 4032196.2/41

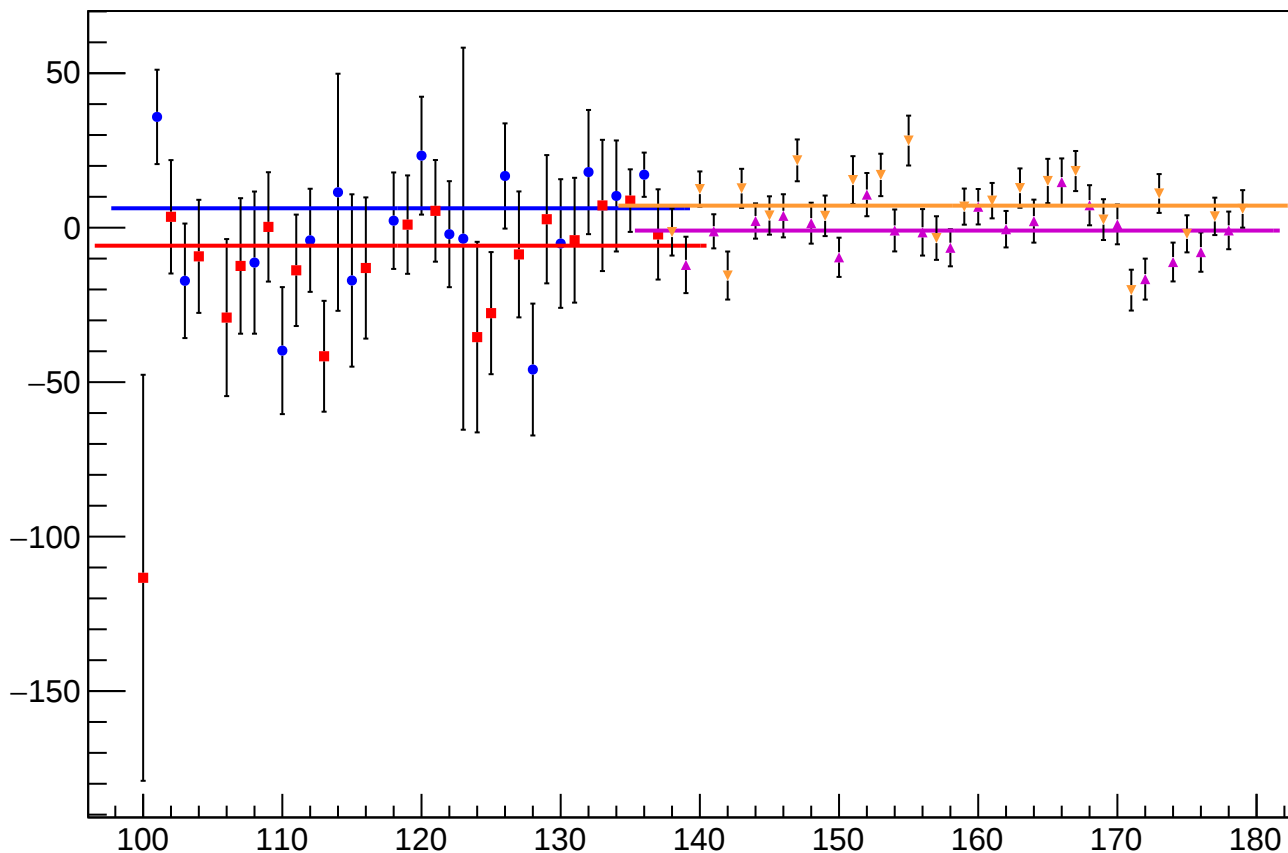
Right: 4786.972 $\pm$ 0.973 χ^2/NDF : 2731901.7/35

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

Out: 4826.403 $\pm$ 0.734 χ^2/NDF :2824154.0/40

All: 4738.813 $\pm$ 0.521 χ^2/NDF : 6767535.1/77

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 7.138 ± 1.394 χ^2/NDF : 54.6/21

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: 3.262 ± 1.005 χ^2/NDF : 95.9/41

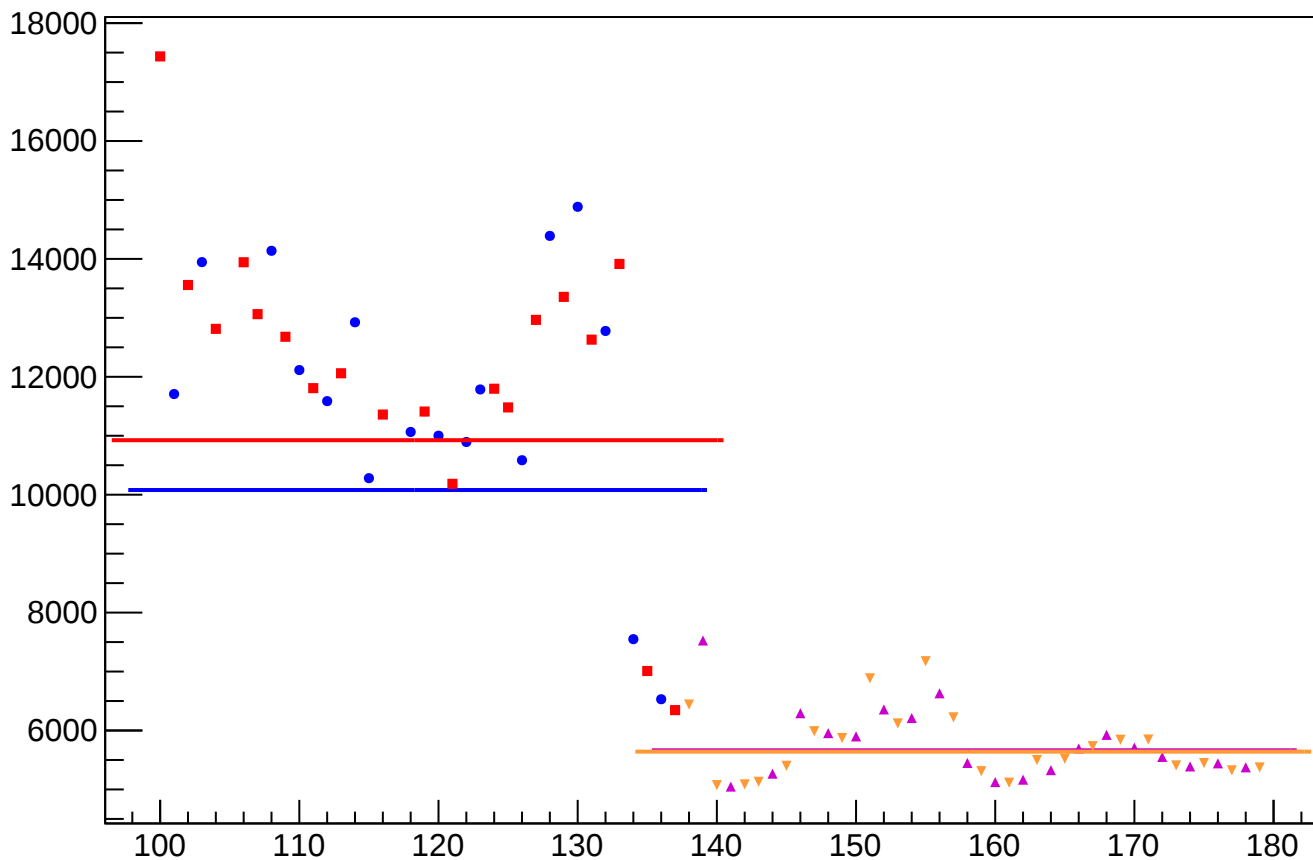
Right: 0.454 ± 2.927 χ^2/NDF : 40.6/35

In: -0.119 ± 1.366 χ^2/NDF : 50.6/36

Out: 5.862 ± 1.323 χ^2/NDF : 76.9/40

All: 2.966 ± 0.951 χ^2/NDF : 137.4/77

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5641.353 $\pm$ 0.986 χ^2 /NDF: 266407.8/21

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: 5652.424 $\pm$ 0.711 χ^2 /NDF: 526899.6/41

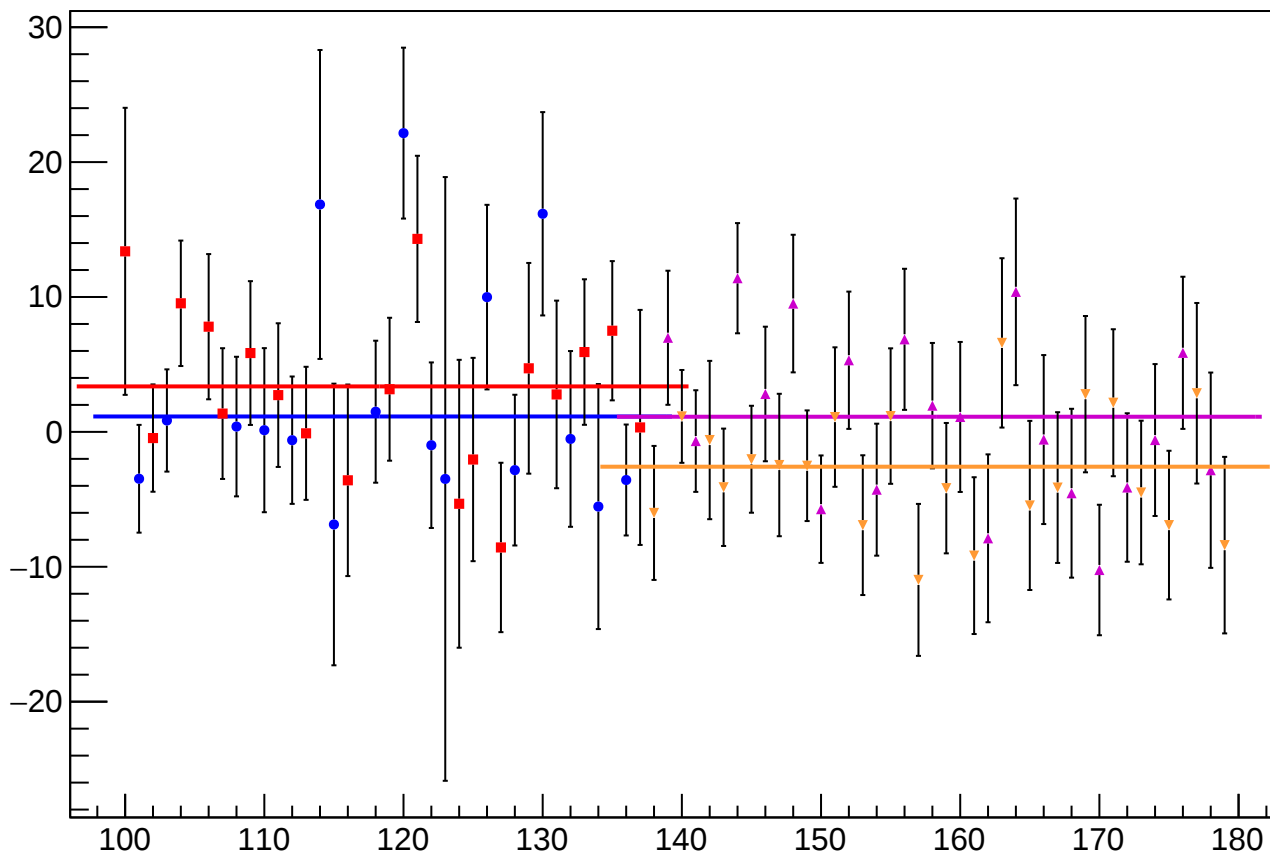
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

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

Out: 6161.236 $\pm$ 0.936 χ^2 /NDF: 3862322.2/40

All: 6162.158 $\pm$ 0.672 χ^2 /NDF: 7210904.9/77

diff_bpm16Y_mean vs Slug, Sign Corrected



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

Left Out: -2.581 ± 1.088 $\chi^2/\text{NDF}: 13.5/21$

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: -0.822 ± 0.789 $\chi^2/\text{NDF}: 48.2/41$

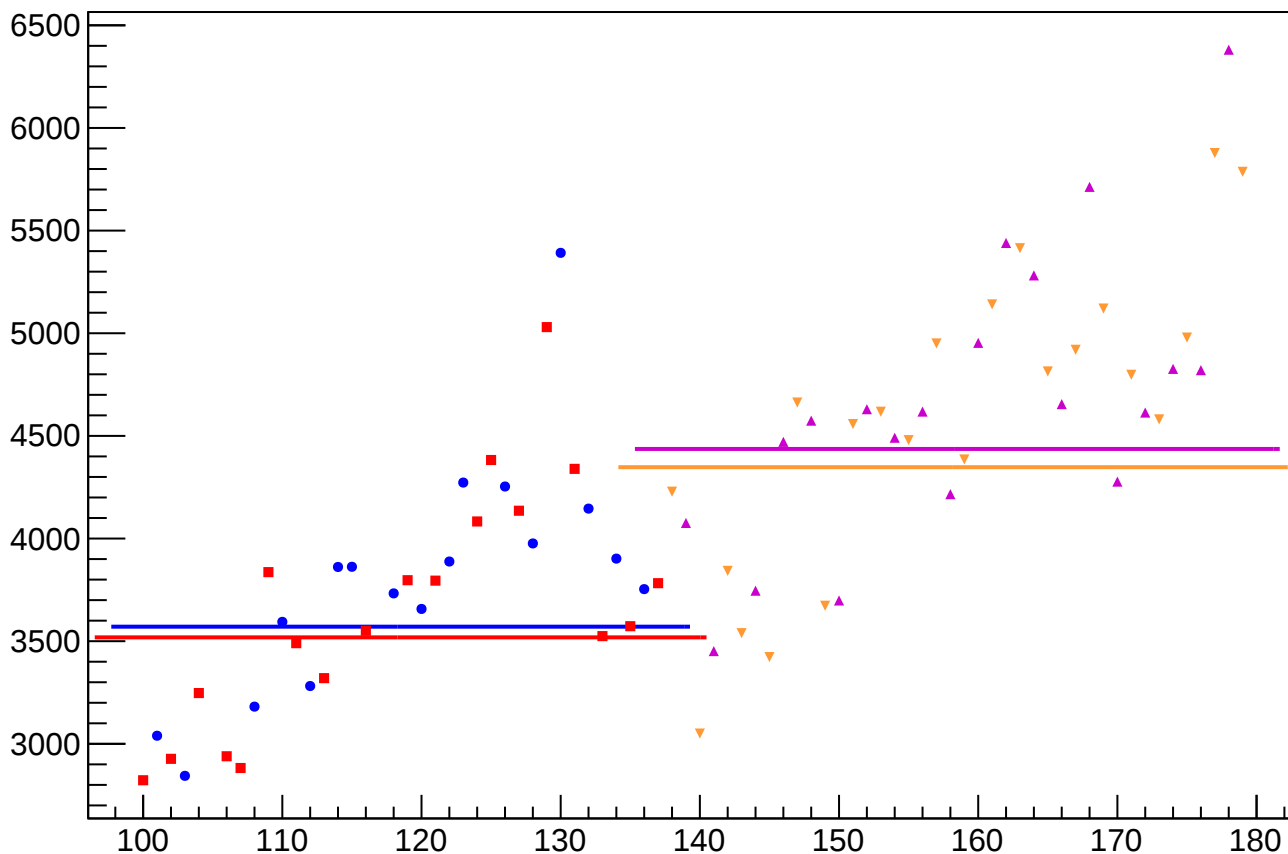
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

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

Out: -0.201 ± 0.843 $\chi^2/\text{NDF}: 40.6/40$

All: 0.433 ± 0.610 $\chi^2/\text{NDF}: 94.2/77$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4347.593 $\pm$ 0.770 χ^2 /NDF:980159.0/21

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: 4389.785 $\pm$ 0.558 χ^2 /NDF: 1623316.4/41

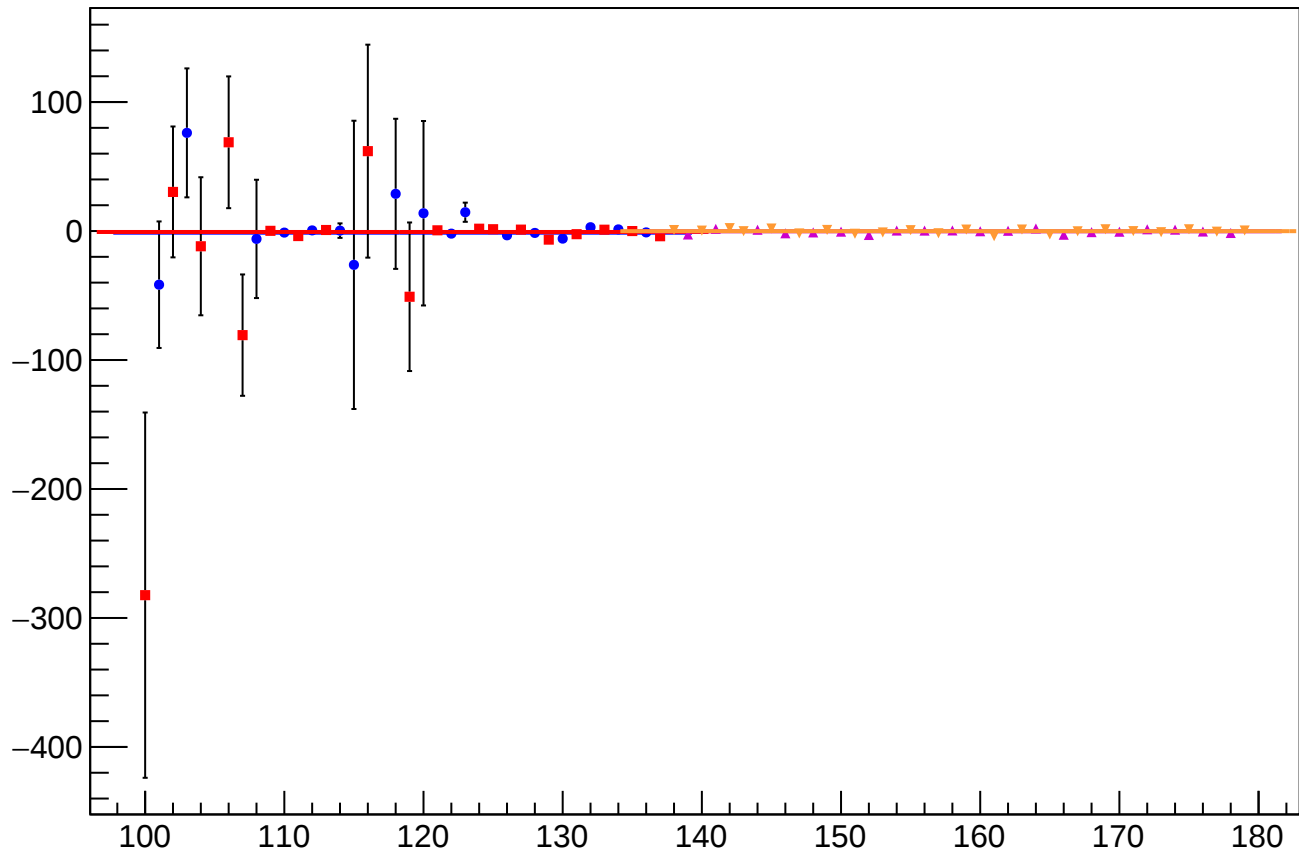
Right: 3543.480 $\pm$ 0.682 χ^2 /NDF: 604252.9/35

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

Out: 4016.067 $\pm$ 0.596 χ^2 /NDF:1737430.6/40

All: 4050.428 $\pm$ 0.432 χ^2 /NDF: 3151168.1/77

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.104 ± 0.260 χ^2/NDF : 34.0/21

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: -0.155 ± 0.187 χ^2/NDF : 60.2/41

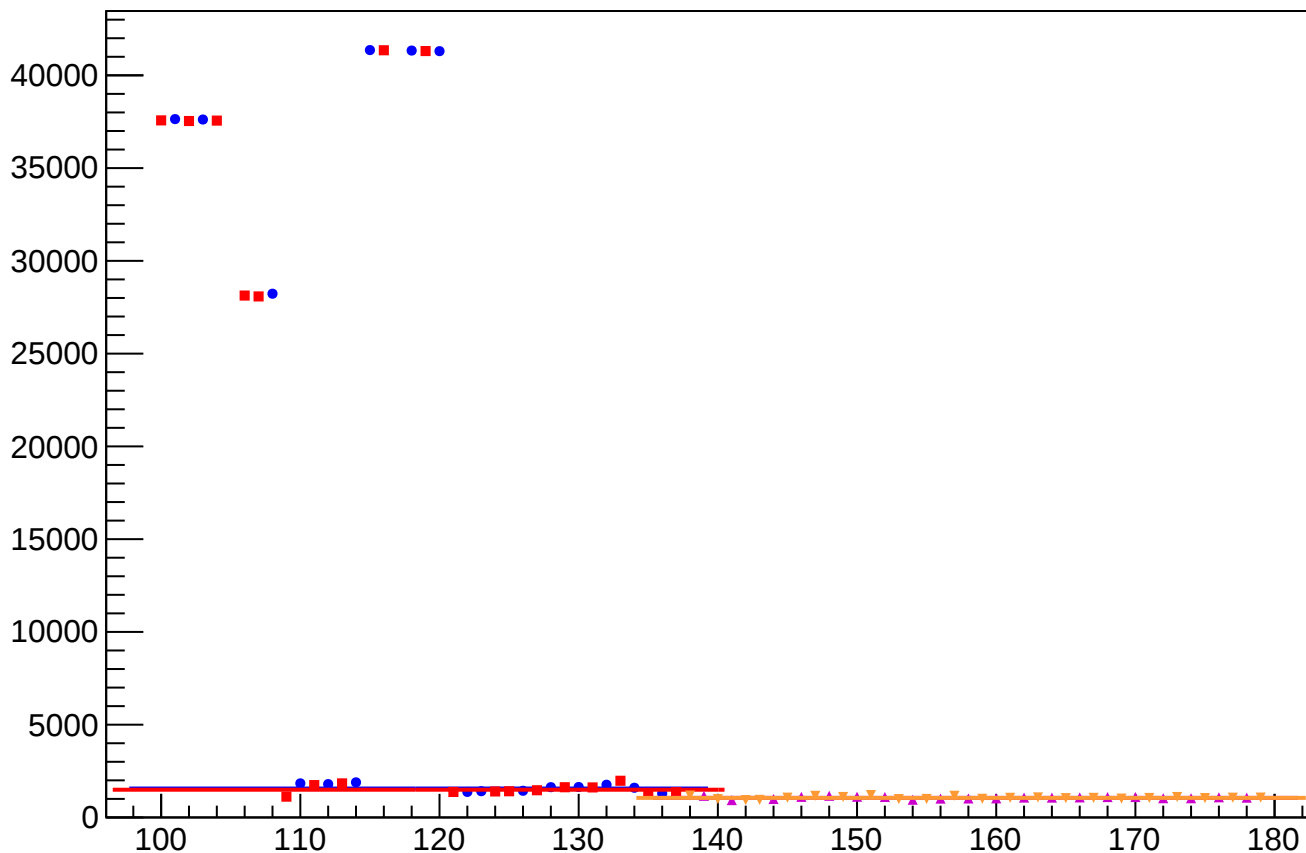
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.329 ± 0.253 χ^2/NDF : 44.2/36

Out: -0.179 ± 0.244 χ^2/NDF : 56.7/40

All: -0.251 ± 0.176 χ^2/NDF : 101.1/77

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1054.992 $\pm$ 0.184 χ^2 /NDF:135248.3/21

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: 1054.944 $\pm$ 0.132 χ^2 /NDF: 242514.8/41

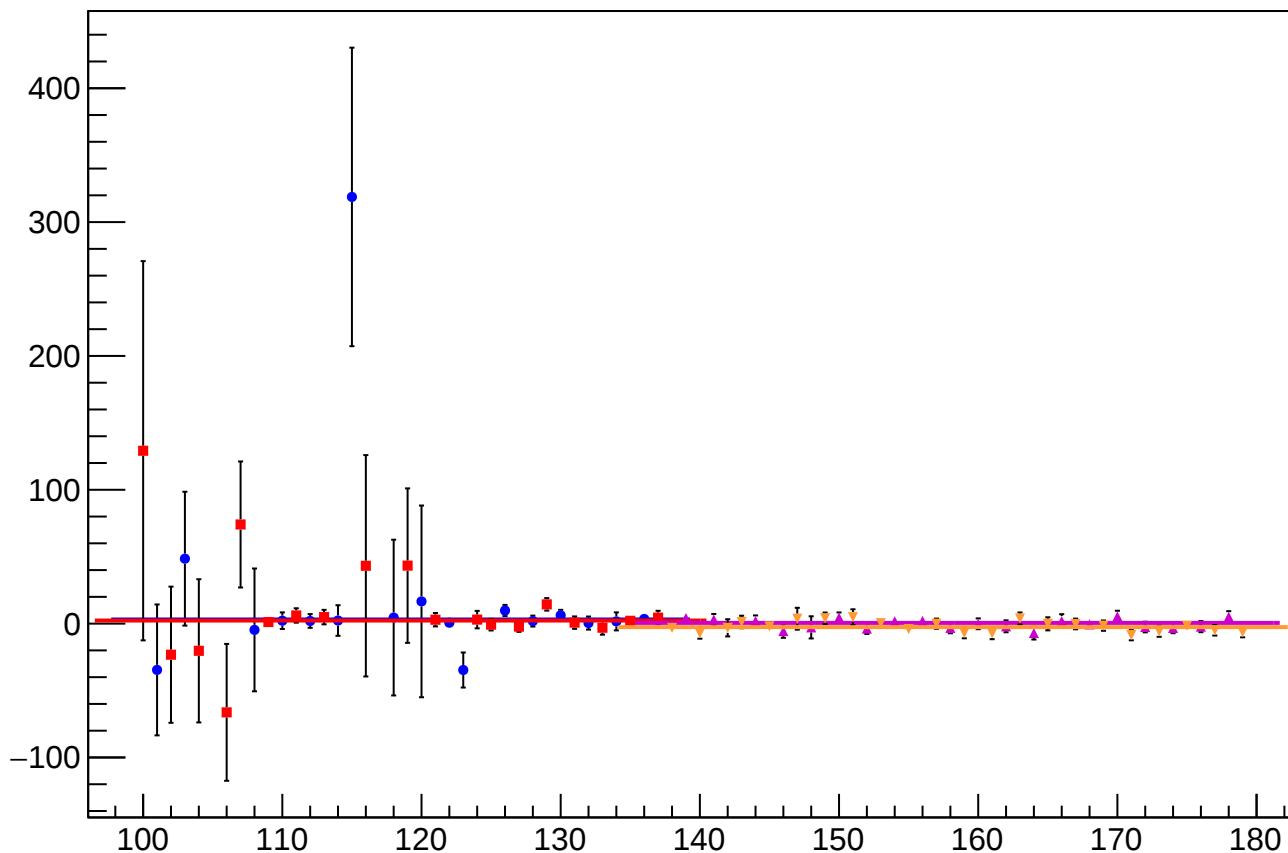
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

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

Out: 1106.884 $\pm$ 0.173 χ^2 /NDF:5703900.8/40

All: 1109.733 $\pm$ 0.124 χ^2 /NDF: 11369695.9/77

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.075 ± 1.323 χ^2/NDF : 21.9/16

Left Out: -2.621 ± 0.849 χ^2/NDF : 17.2/21

Right Out: 2.306 ± 1.235 χ^2/NDF : 16.9/18

Left In: 0.550 ± 0.891 χ^2/NDF : 15.3/19

Left: -1.111 ± 0.615 χ^2/NDF : 39.1/41

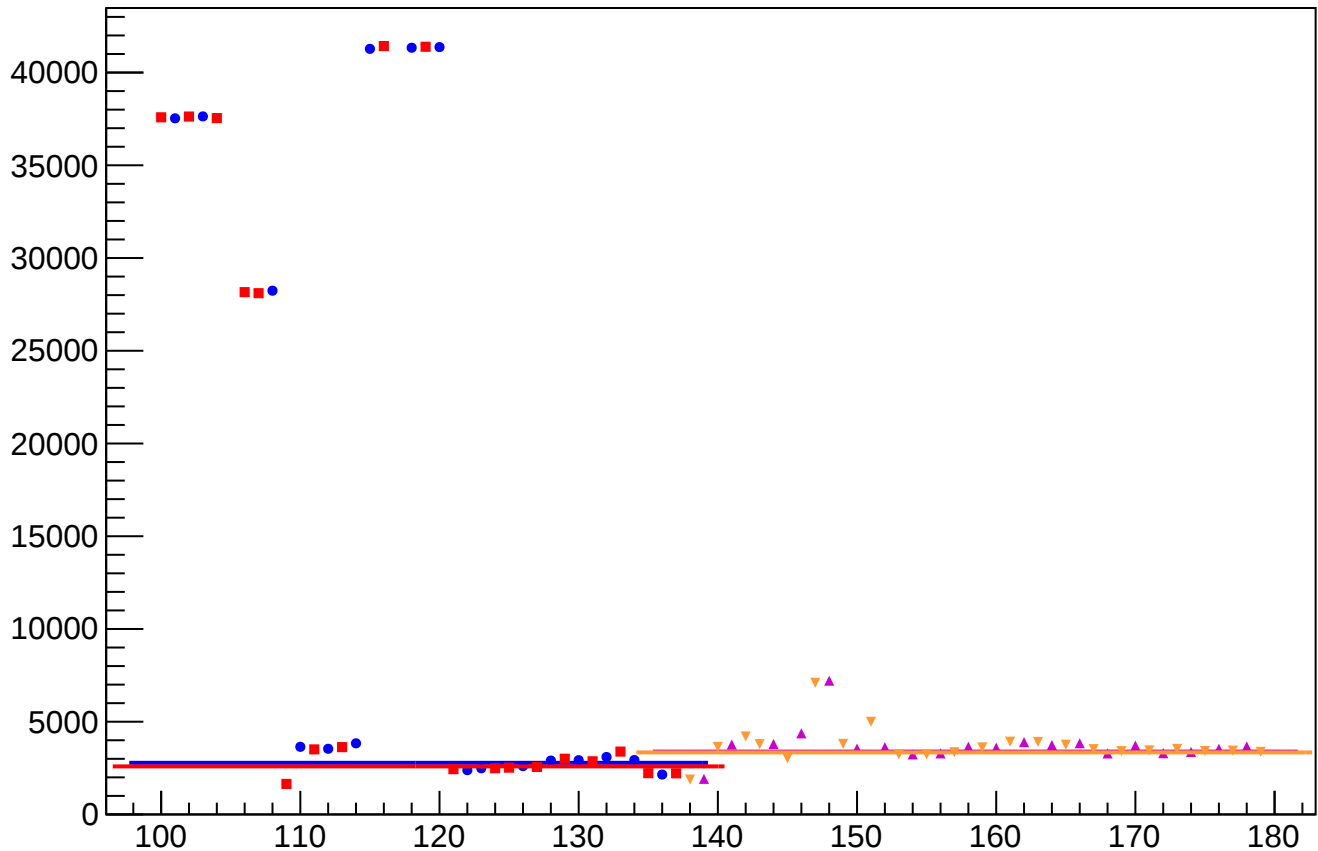
Right: 2.664 ± 0.903 χ^2/NDF : 39.0/35

In: 1.338 ± 0.739 χ^2/NDF : 39.7/36

Out: -1.038 ± 0.700 χ^2/NDF : 44.9/40

All: 0.085 ± 0.508 χ^2/NDF : 90.0/77

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3345.666+/-0.601 χ^2/NDF : 1627871.7/21

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

Left In: 3389.679+/-0.630 χ^2/NDF : 1416226.8/19

Left: 3366.629+/-0.435 χ^2/NDF : 3046655.7/41

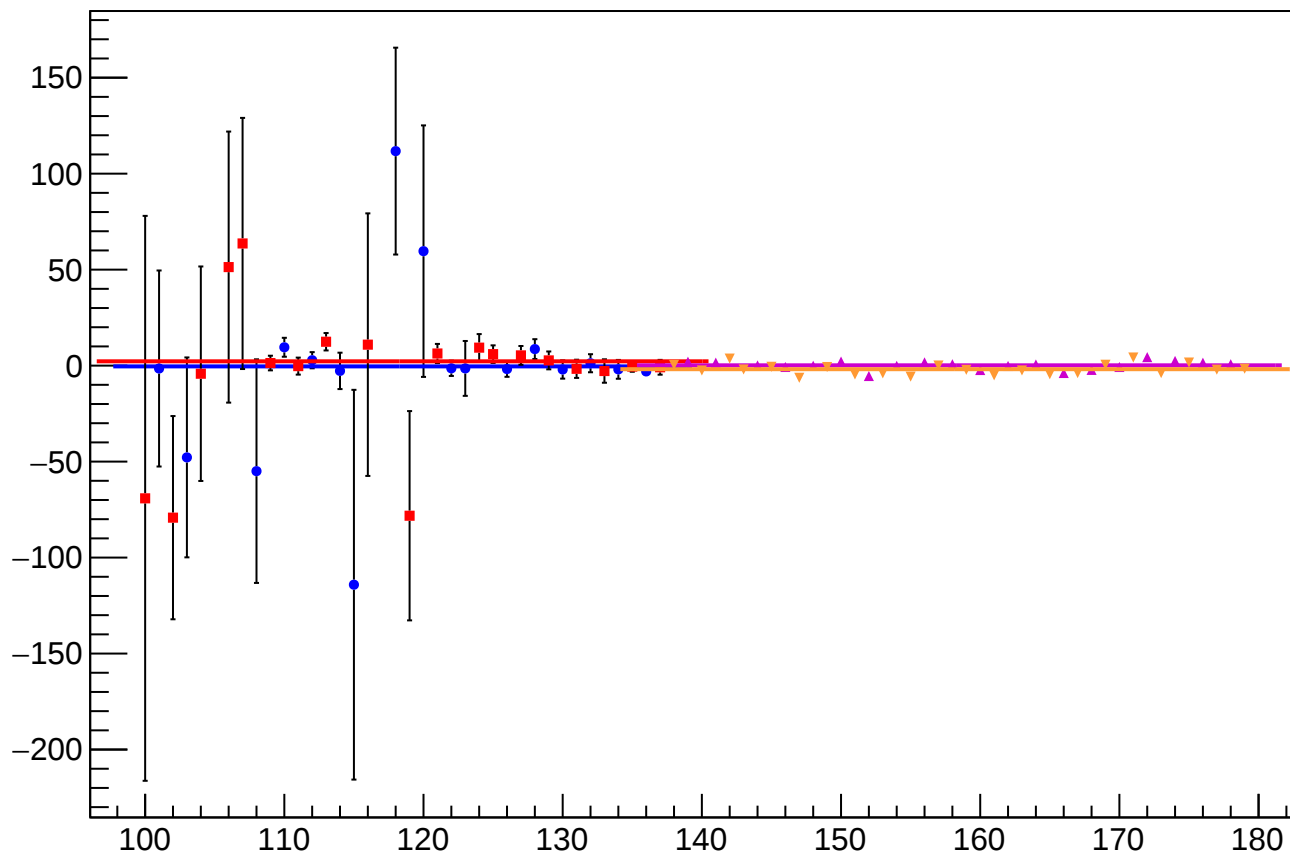
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3200.797+/-0.523 χ^2/NDF : 6282022.8/36

Out: 3103.219+/-0.495 χ^2/NDF : 6981594.6/40

All: 3149.357+/-0.359 χ^2/NDF : 13282003.4/71

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

Left Out: -1.860 ± 0.409 χ^2/NDF : 42.5/21

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

Left In: 0.159 ± 0.425 χ^2/NDF : 24.9/19

Left: -0.889 ± 0.295 χ^2/NDF : 79.0/41

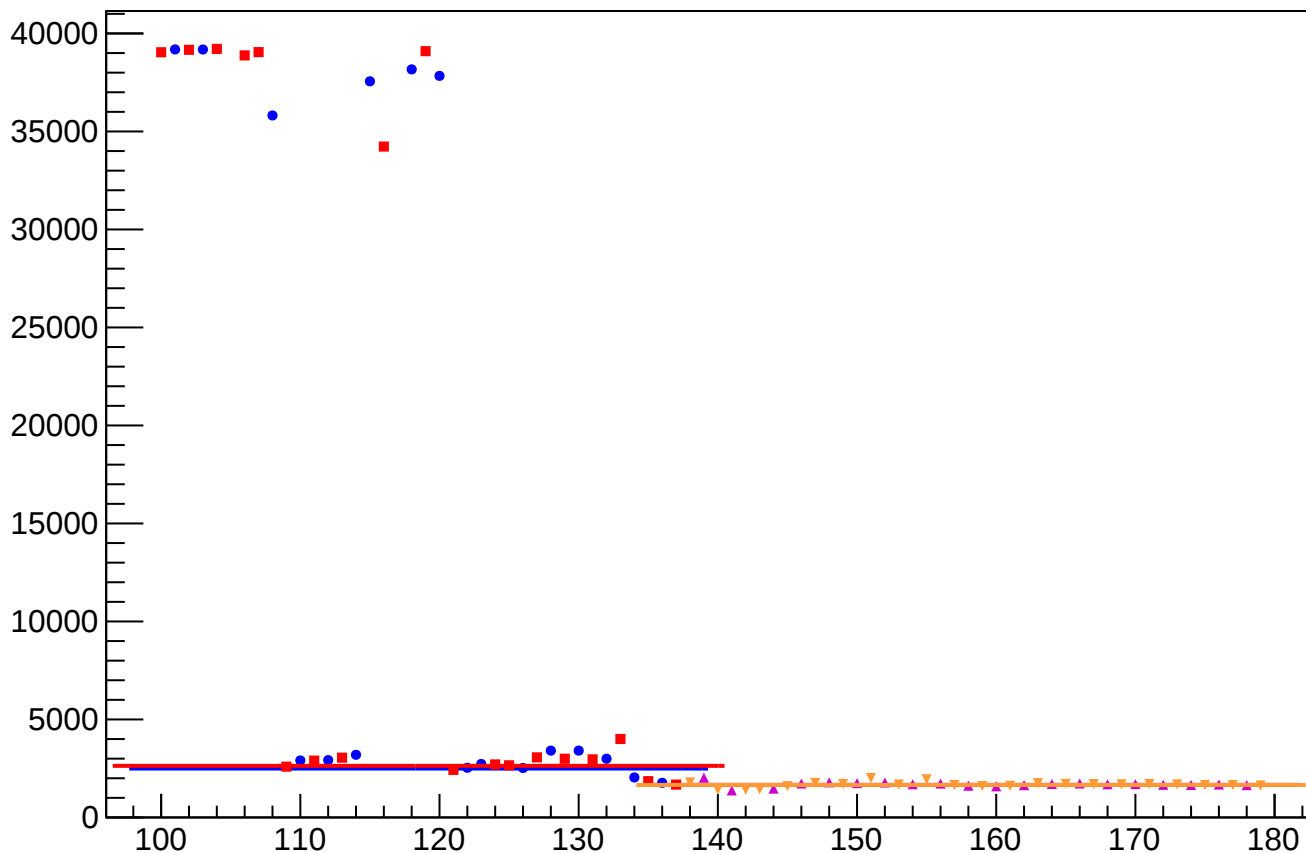
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: 0.098 ± 0.401 χ^2/NDF : 43.3/36

Out: -1.460 ± 0.389 χ^2/NDF : 69.7/40

All: -0.706 ± 0.279 χ^2/NDF : 120.8/77

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

Left Out: 1658.989 $\pm$ 0.289 χ^2 /NDF: 215331.3/21

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: 1660.811 $\pm$ 0.209 χ^2 /NDF: 393868.0/41

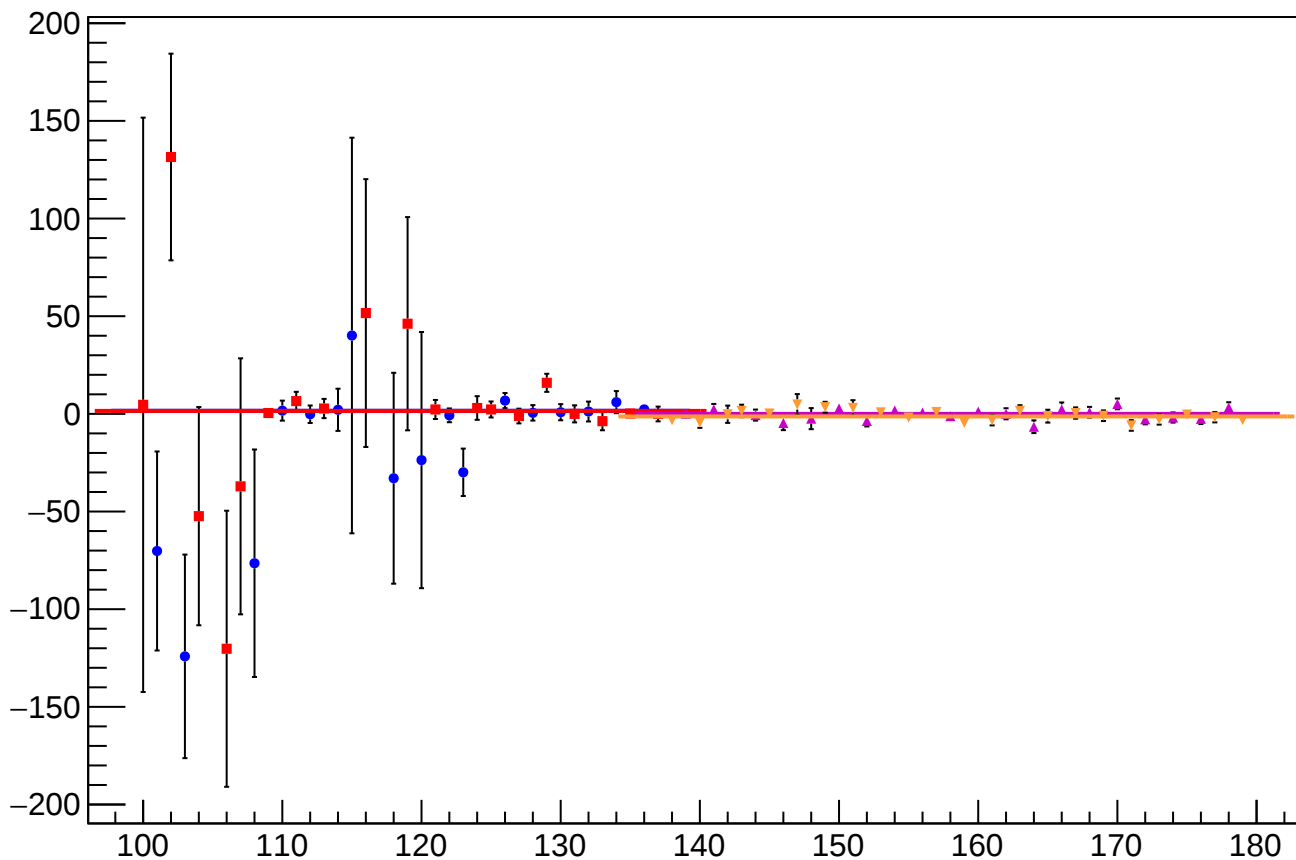
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

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

Out: 1753.890 $\pm$ 0.275 χ^2 /NDF: 6179630.1/40

All: 1753.596 $\pm$ 0.198 χ^2 /NDF: 12074106.3/77

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.323 $\pm$ 0.563 χ^2 /NDF:19.1/21

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

Left In: -0.018 $\pm$ 0.573 χ^2 /NDF:18.6/19

Left: -0.682 $\pm$ 0.401 χ^2 /NDF: 40.3/41

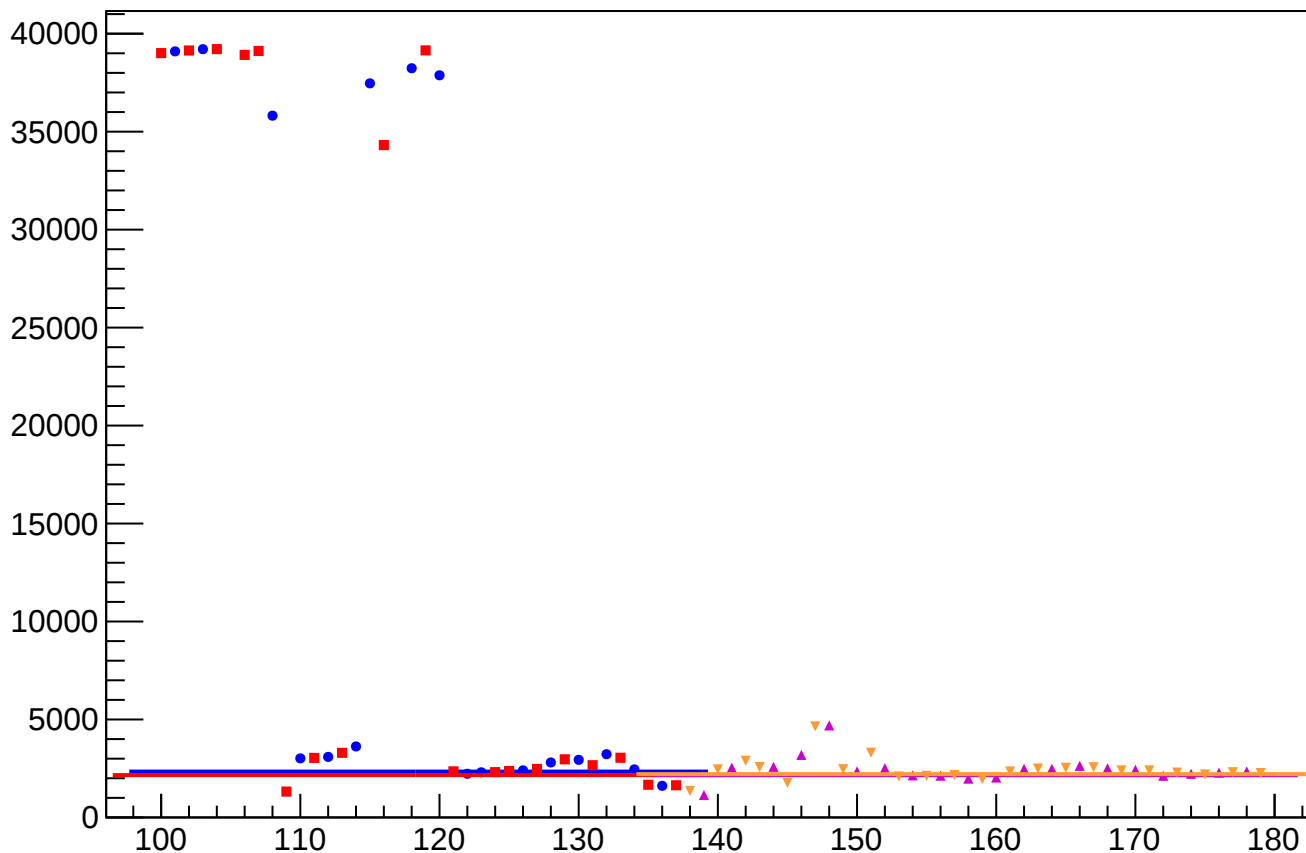
Right: 1.548 $\pm$ 0.778 χ^2 /NDF: 45.4/35

In: 0.302 $\pm$ 0.512 χ^2 /NDF:40.5/36

Out: -0.699 $\pm$ 0.497 χ^2 /NDF:49.7/40

All: -0.213 $\pm$ 0.357 χ^2 /NDF: 92.2/77

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2211.209+/-0.398 χ^2/NDF : 1408759.1/21

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: 2183.912+/-0.284 χ^2/NDF : 3381344.4/41

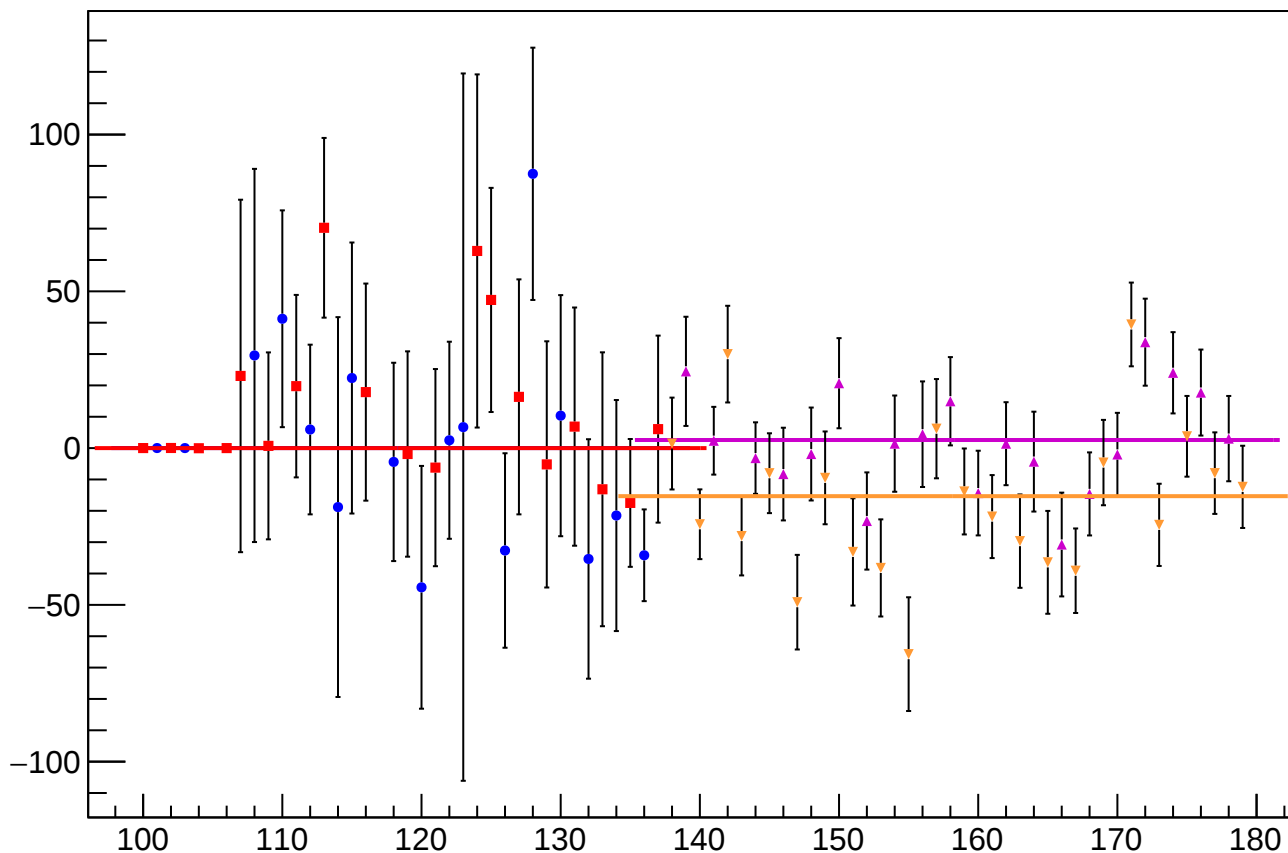
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

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

Out: 2200.240+/-0.352 χ^2/NDF : 6711276.4/40

All: 2196.661+/-0.252 χ^2/NDF : 13723464.3/71

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -15.328 ± 2.983 $\chi^2/\text{NDF}: 56.4/21$

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

Left In: 2.584 ± 3.123 $\chi^2/\text{NDF}: 24.3/19$

Left: -6.782 ± 2.157 $\chi^2/\text{NDF}: 97.9/41$

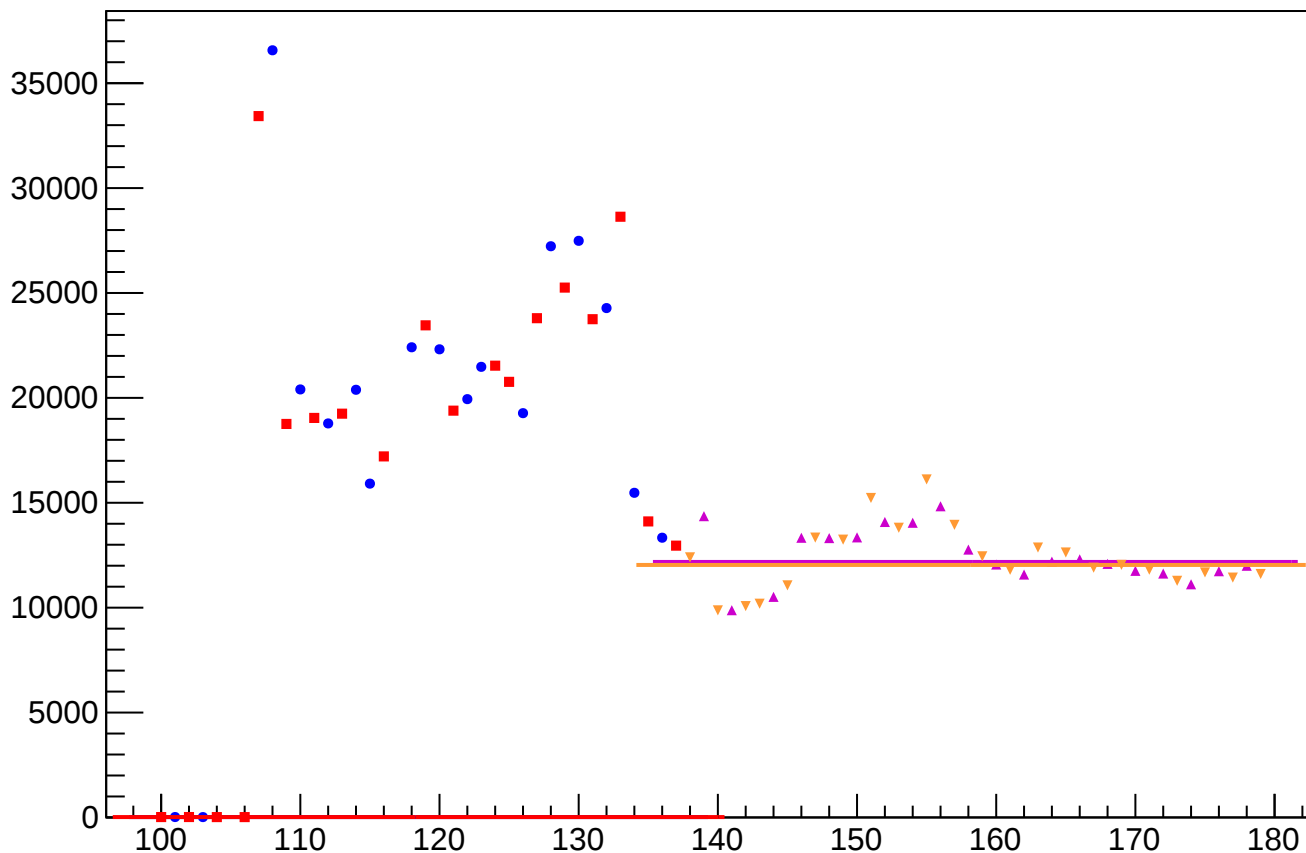
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 32.5/35$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 41.1/36$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 98.7/40$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 140.3/77$

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 12036.458 $\pm$ 2.109 χ^2 /NDF:445363.0/21

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: 12104.506 $\pm$ 1.525 χ^2 /NDF: 788024.1/41

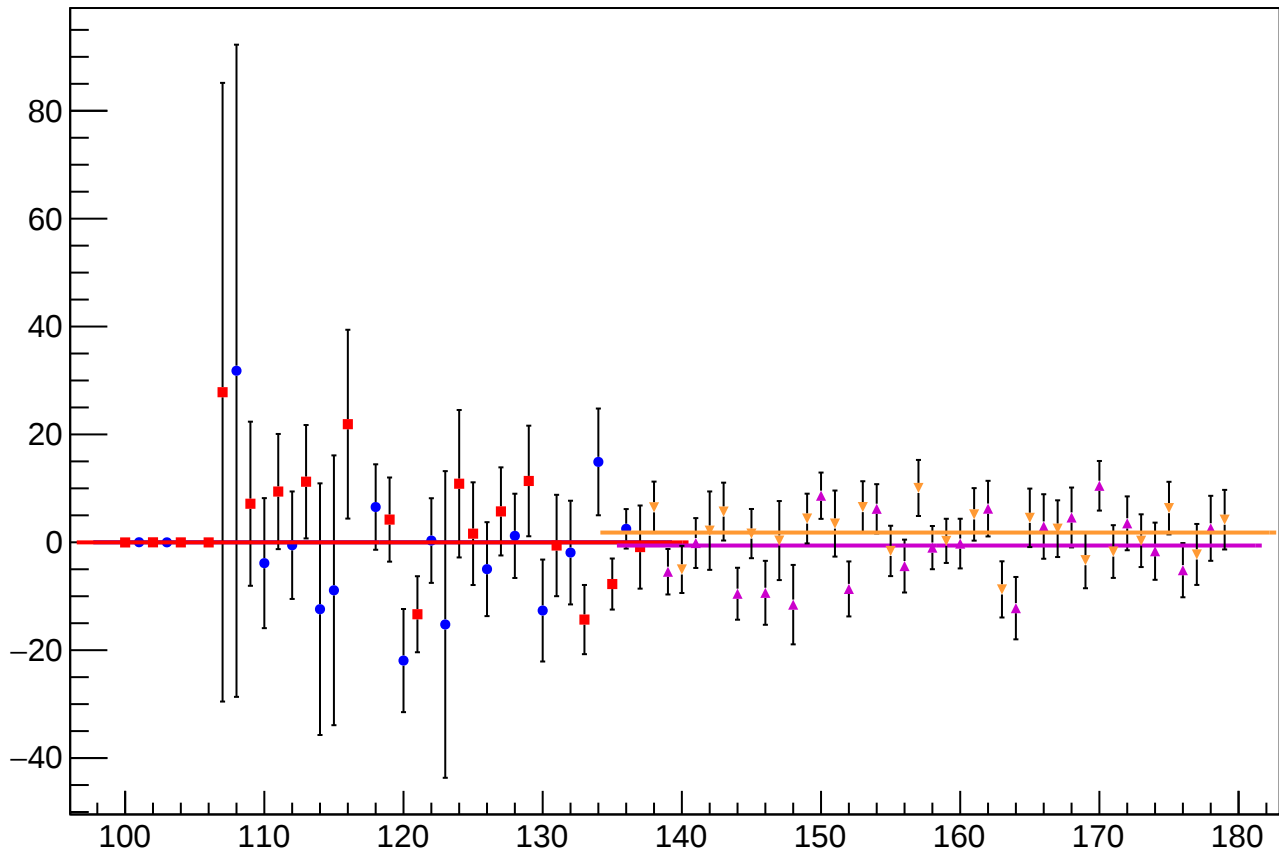
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

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

Out: 18.660 $\pm$ 0.011 χ^2 /NDF:44020508.6/40

All: 18.825 $\pm$ 0.008 χ^2 /NDF: 85669088.0/77

diff_cav4bY_mean vs Slug, Sign Corrected



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

Left Out: 1.806 ± 1.083 $\chi^2/\text{NDF}: 16.5/21$

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: 0.640 ± 0.777 $\chi^2/\text{NDF}: 52.7/41$

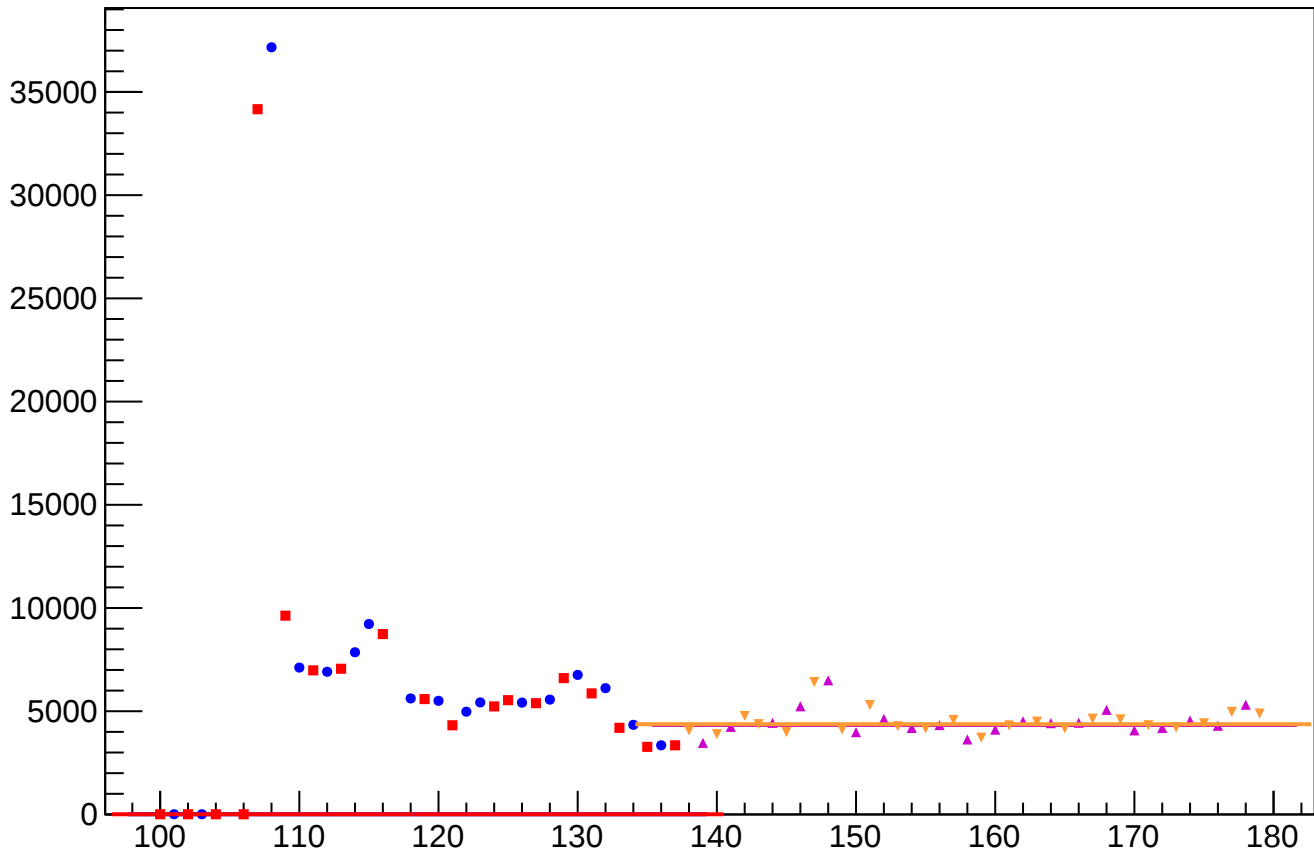
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

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

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 37.9/40$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 86.4/77$

diff_cav4bY_rms vs Slug, Sign Corrected



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

Left Out: 4370.668 ± 0.766 χ^2/NDF : 373366.7/21

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

Left In: 4333.458 ± 0.789 χ^2/NDF : 496261.5/19

Left: 4352.619 ± 0.550 χ^2/NDF : 870773.4/41

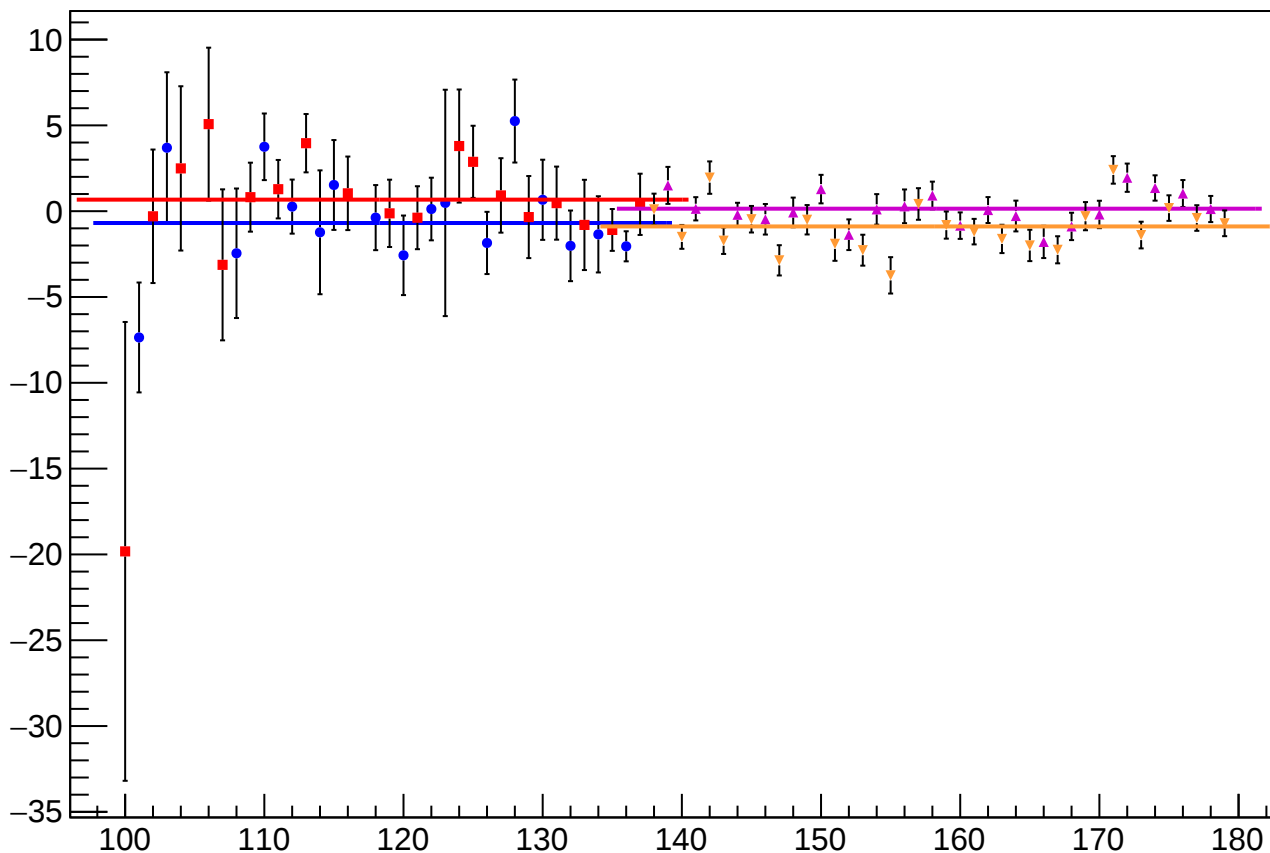
Right: 9.894 ± 0.004 χ^2/NDF : 22274609.0/35

In: 10.233 ± 0.007 χ^2/NDF : 41633702.9/36

Out: 10.133 ± 0.006 χ^2/NDF : 43959718.4/40

All: 10.180 ± 0.004 χ^2/NDF : 85593547.8/77

diff_cav4cX_mean vs Slug, Sign Corrected



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

Left Out: -0.889 ± 0.176 χ^2/NDF : 56.1/21

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

Left In: 0.145 ± 0.183 χ^2/NDF : 24.8/19

Left: -0.394 ± 0.127 χ^2/NDF : 97.5/41

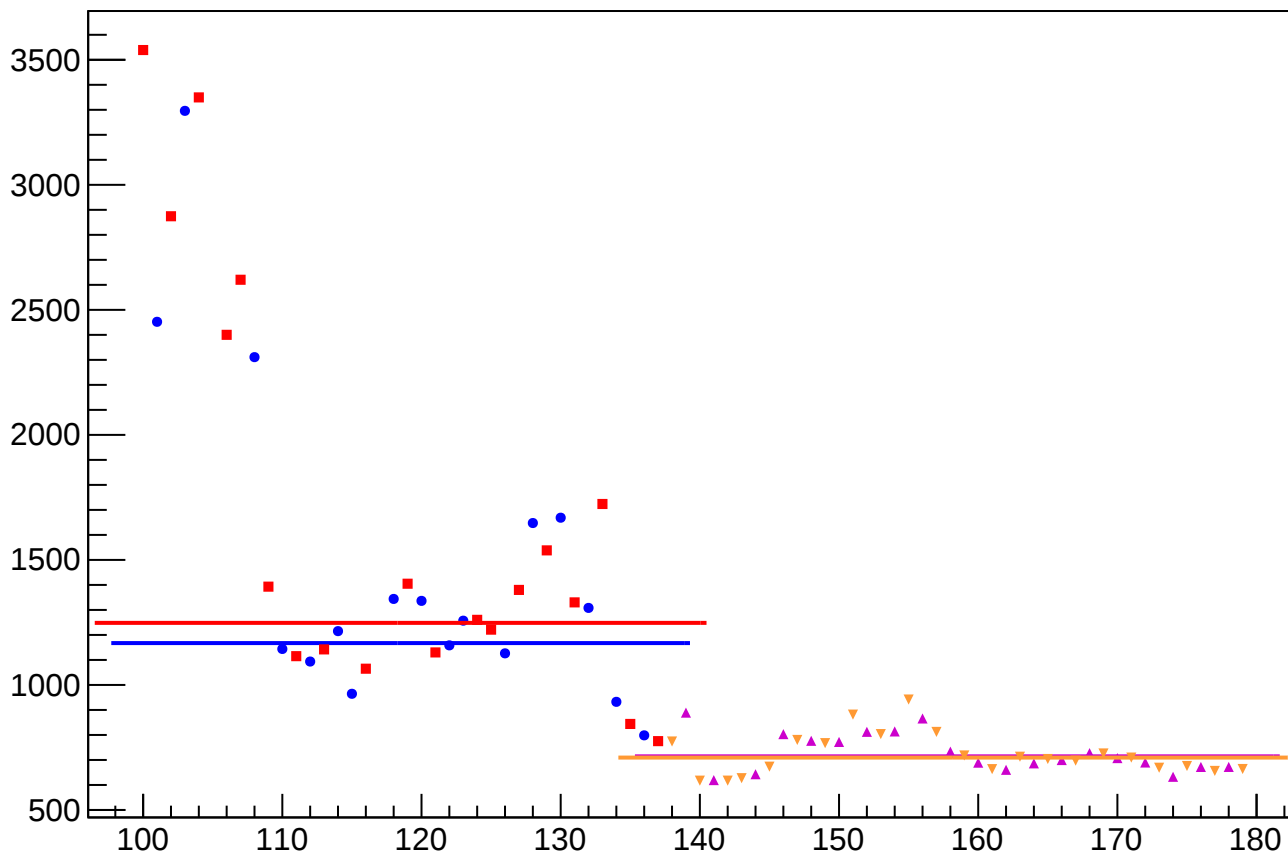
Right: -0.034 ± 0.347 χ^2/NDF : 39.7/35

In: 0.040 ± 0.171 χ^2/NDF : 49.9/36

Out: -0.718 ± 0.166 χ^2/NDF : 78.1/40

All: -0.351 ± 0.119 χ^2/NDF : 138.1/77

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.397+/-0.341 χ^2/NDF : 1578328.1/16

Left Out: 709.522+/-0.124 χ^2/NDF : 352655.6/21

Right Out: 1248.241+/-0.354 χ^2/NDF : 1654028.9/18

Left In: 714.551+/-0.129 χ^2/NDF : 304463.5/19

Left: 711.931+/-0.090 χ^2/NDF : 657905.5/41

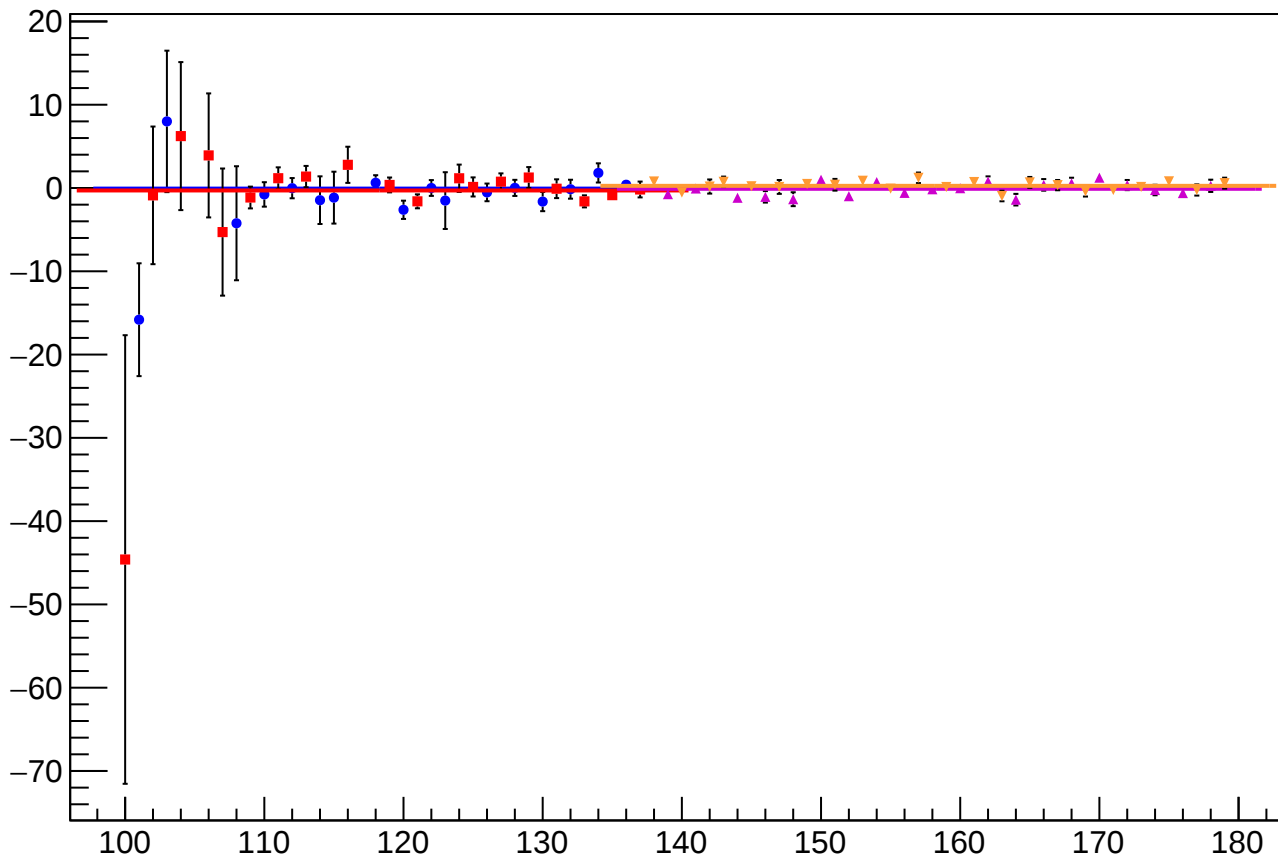
Right: 1206.306+/-0.246 χ^2/NDF : 3259405.5/35

In: 771.588+/-0.121 χ^2/NDF : 3424070.4/36

Out: 768.487+/-0.117 χ^2/NDF : 4068710.4/40

All: 769.986+/-0.084 χ^2/NDF : 7493119.9/77

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.260 ± 0.130 χ^2/NDF : 16.2/21

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: 0.088 ± 0.093 χ^2/NDF : 53.1/41

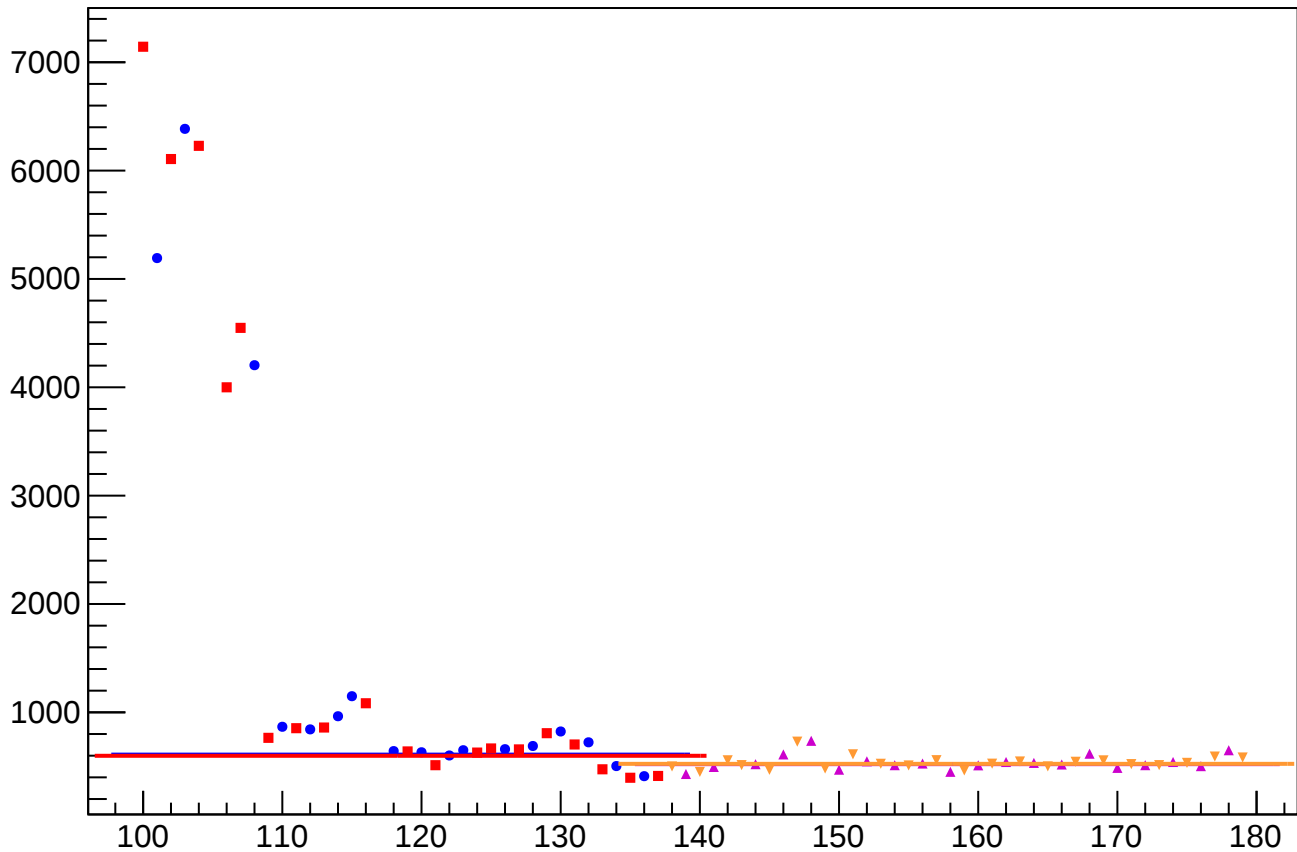
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.090 ± 0.120 χ^2/NDF : 52.5/36

Out: 0.152 ± 0.117 χ^2/NDF : 40.0/40

All: 0.034 ± 0.084 χ^2/NDF : 94.6/77

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 524.629+/-0.092 χ^2/NDF : 321070.1/21

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

Left In: 521.758+/-0.095 χ^2/NDF : 413782.6/19

Left: 523.240+/-0.066 χ^2/NDF : 735326.0/41

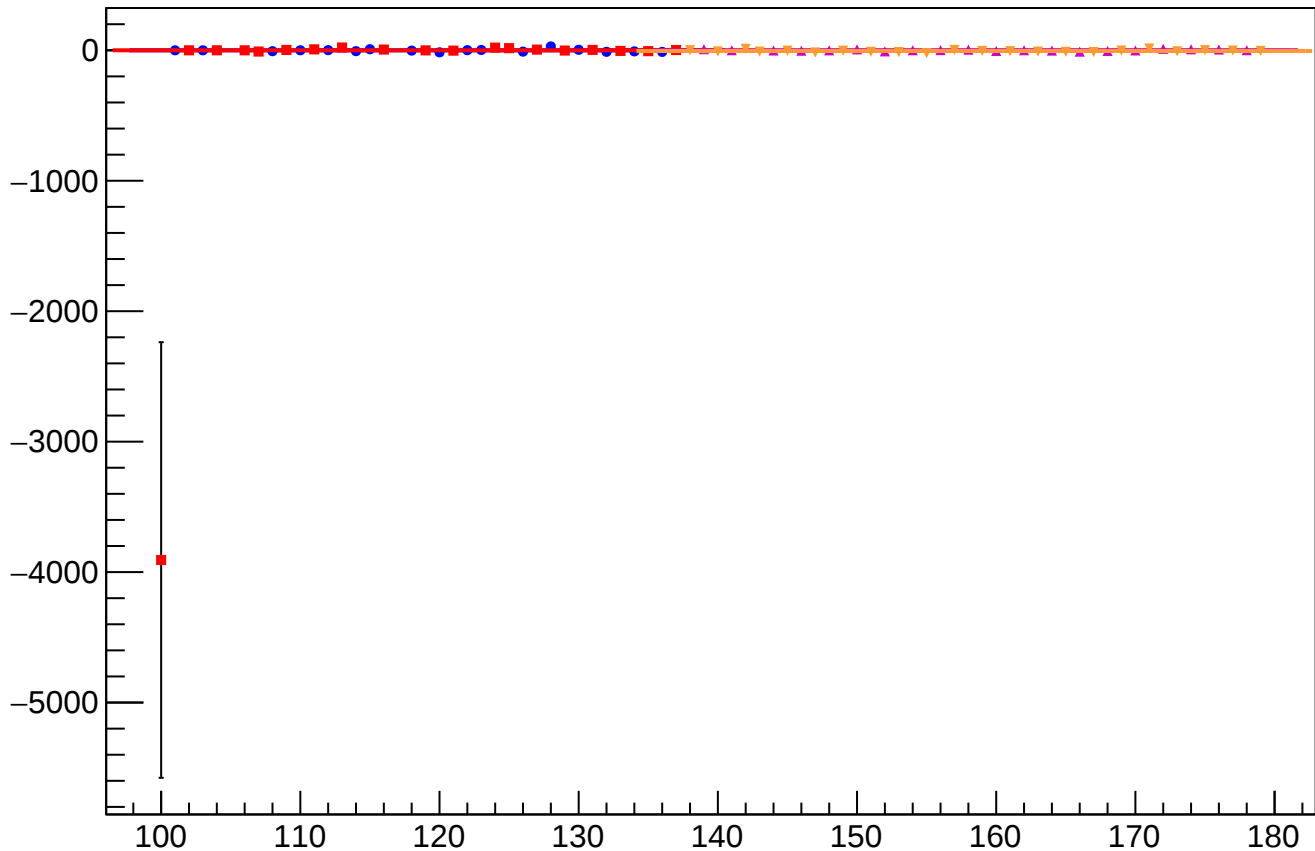
Right: 604.304+/-0.133 χ^2/NDF : 6689999.6/35

In: 539.329+/-0.085 χ^2/NDF : 3721693.4/36

Out: 539.129+/-0.082 χ^2/NDF : 4001386.5/40

All: 539.226+/-0.059 χ^2/NDF : 7723082.8/77

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -5.144 ± 1.022 χ^2/NDF : 56.0/21

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: -2.249 ± 0.738 χ^2/NDF : 97.7/41

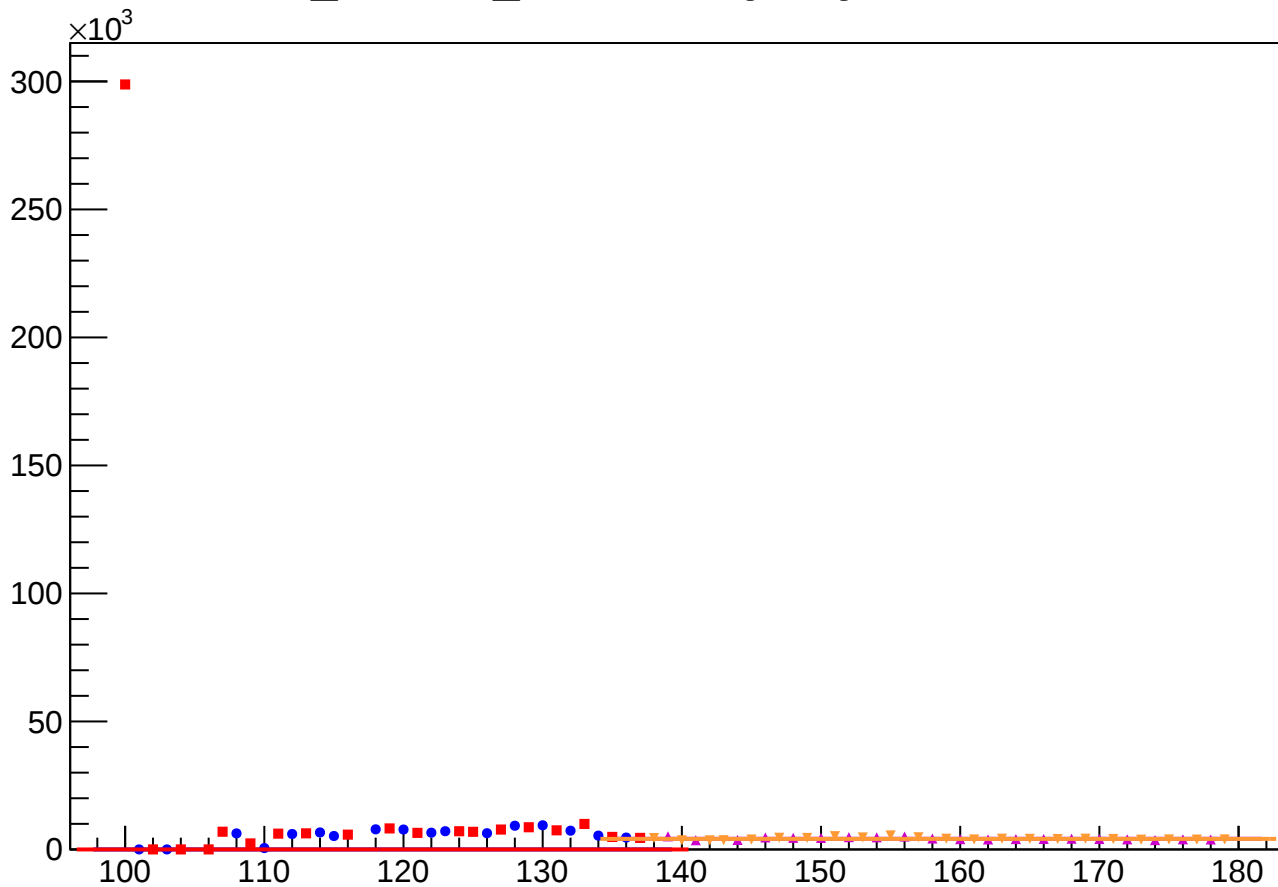
Right: 0.004 ± 0.014 χ^2/NDF : 36.4/35

In: -0.021 ± 0.021 χ^2/NDF : 41.3/36

Out: 0.025 ± 0.020 χ^2/NDF : 99.5/40

All: 0.003 ± 0.014 χ^2/NDF : 143.4/77

diff_cav4dX_rms vs Slug, Sign Corrected



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

Left Out: 4129.569 $\pm$ 0.723 χ^2 /NDF: 371022.6/21

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: 4145.014 $\pm$ 0.522 χ^2 /NDF: 687026.7/41

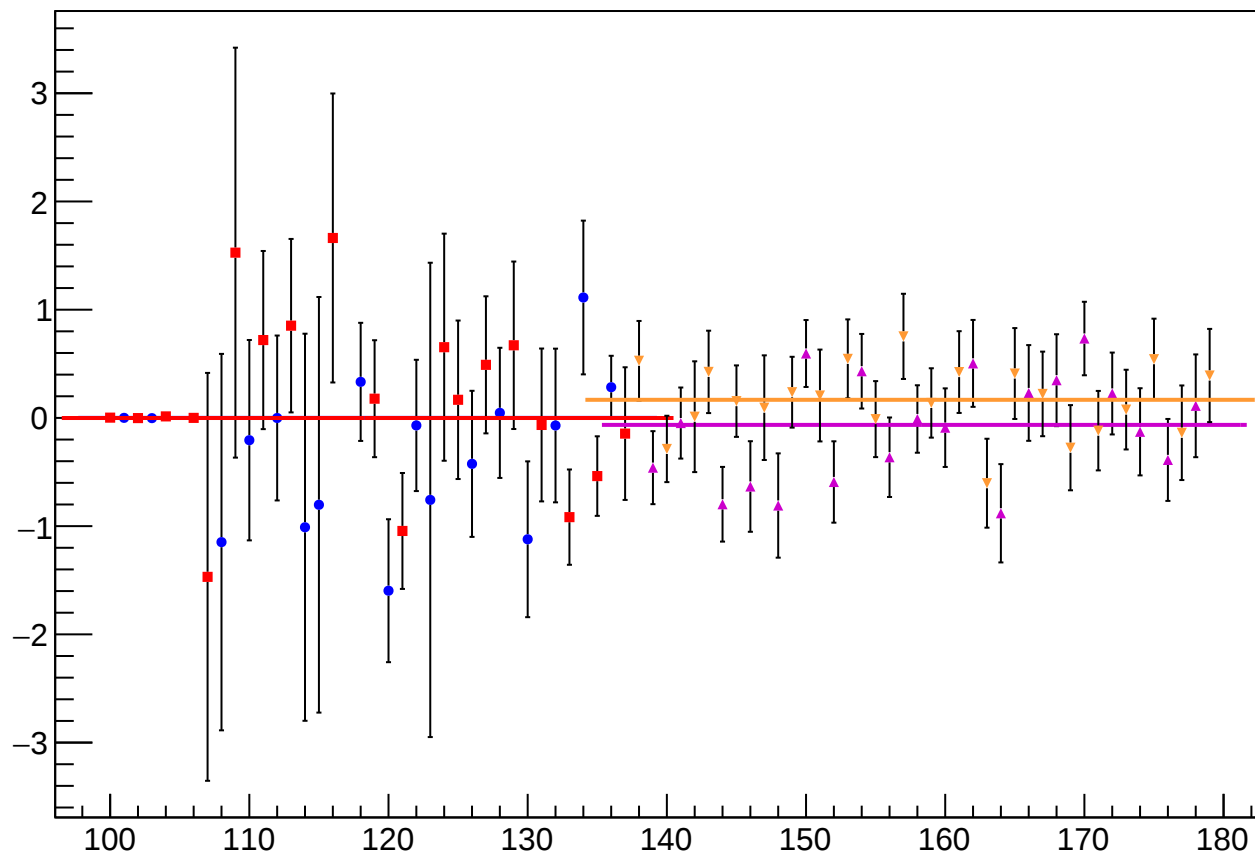
Right: 17.303 $\pm$ 0.010 χ^2 /NDF: 21322069.2/35

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

Out: 18.808 $\pm$ 0.014 χ^2 /NDF: 43565259.8/40

All: 18.859 $\pm$ 0.010 χ^2 /NDF: 84574126.3/77

diff_cav4dY_mean vs Slug, Sign Corrected



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

Left Out: 0.167 ± 0.081 $\chi^2/\text{NDF}: 15.4/21$

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

Left In: -0.064 ± 0.084 $\chi^2/\text{NDF}: 33.0/19$

Left: 0.056 ± 0.058 $\chi^2/\text{NDF}: 52.4/41$

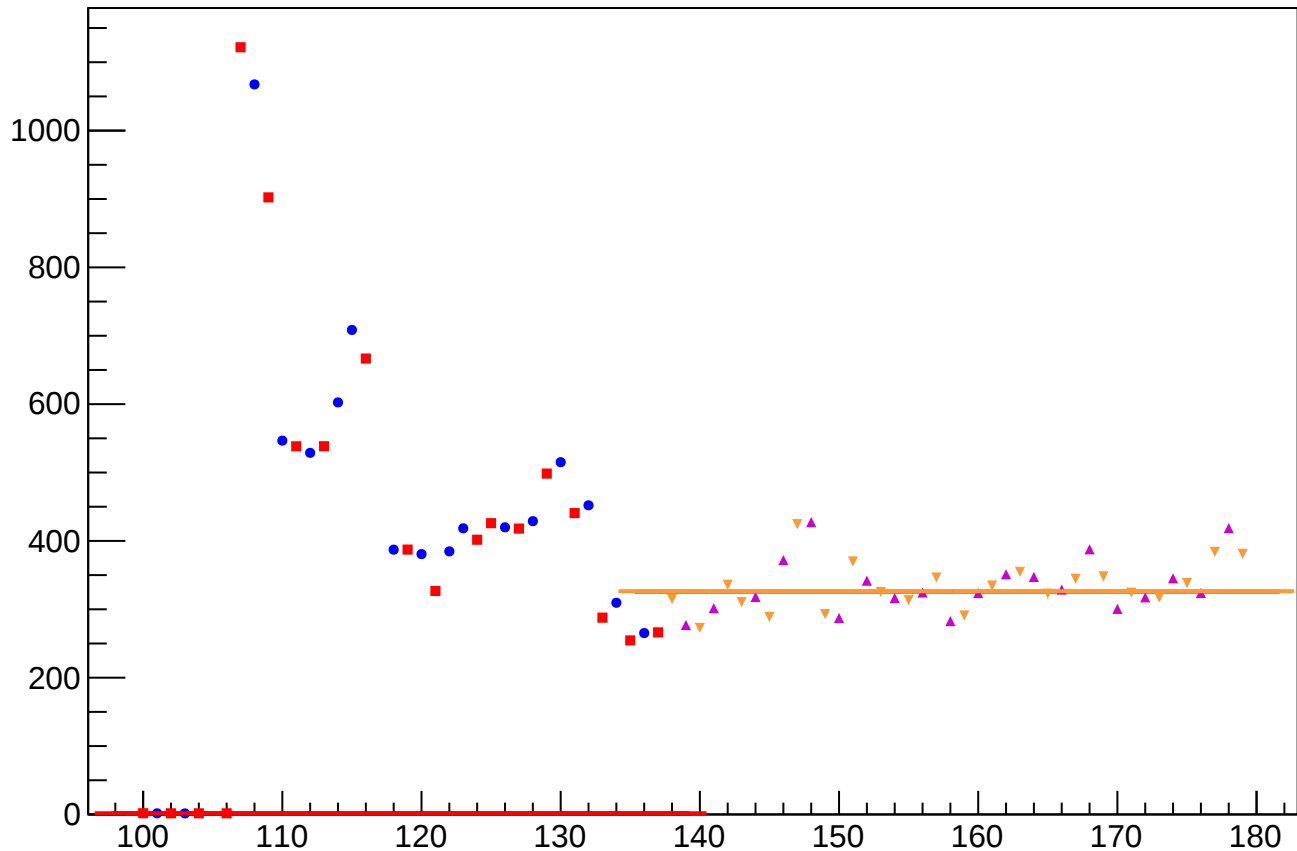
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 31.8/35$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 47.4/36$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 37.6/40$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 85.1/77$

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 326.461+/-0.057 χ^2/NDF : 341400.7/21

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: 326.179+/-0.041 χ^2/NDF : 731292.7/41

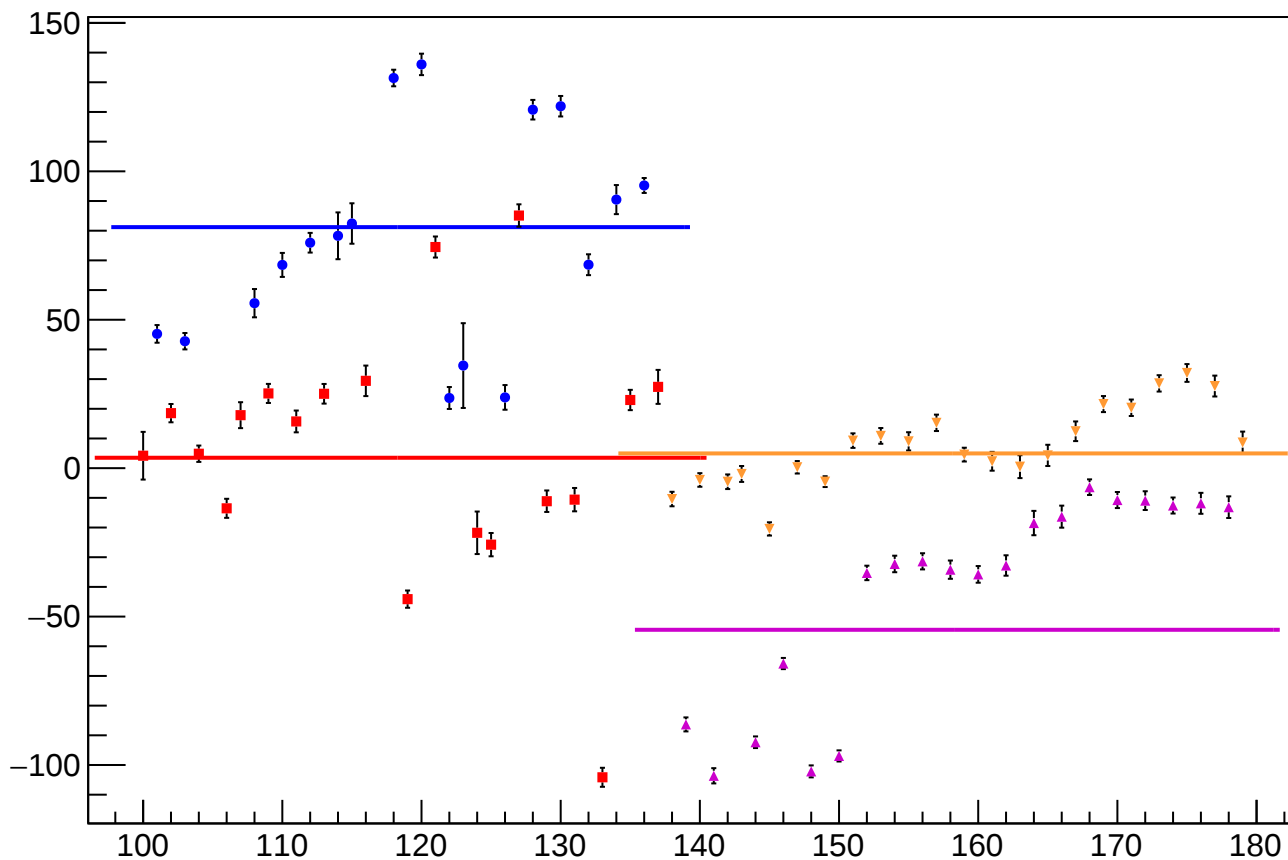
Right: 1.714+/-0.001 χ^2/NDF : 21797153.2/35

In: 1.889+/-0.001 χ^2/NDF : 41409331.6/36

Out: 1.915+/-0.001 χ^2/NDF : 43348537.5/40

All: 1.903+/-0.001 χ^2/NDF : 84758046.5/77

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 4.965+/-0.566 χ^2/NDF : 535.6/21

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

Left In: -54.450+/-0.582 χ^2/NDF : 3834.4/19

Left: -23.936+/-0.406 χ^2/NDF : 9730.7/41

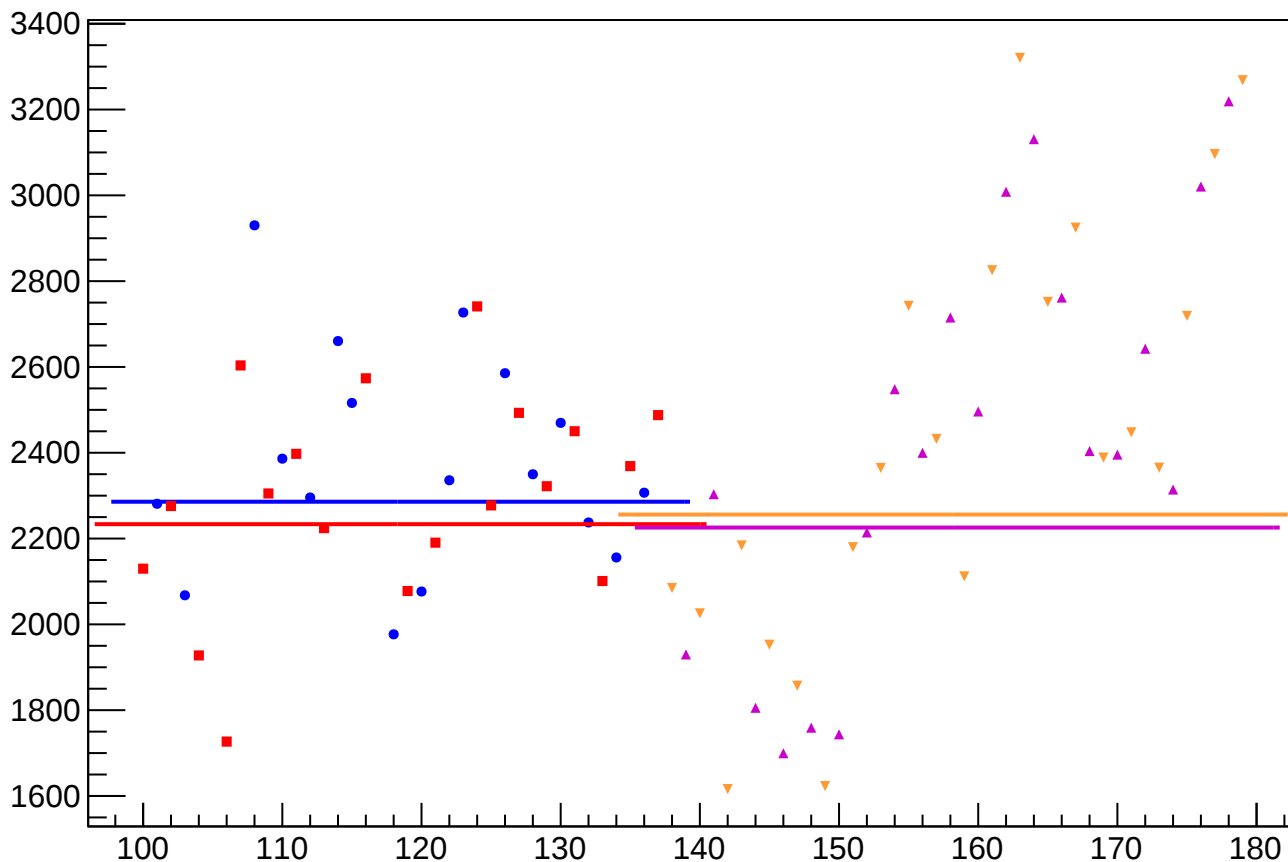
Right: 40.415+/-0.610 χ^2/NDF : 8348.3/35

In: -13.585+/-0.486 χ^2/NDF : 21935.1/36

Out: 4.512+/-0.470 χ^2/NDF : 3136.7/40

All: -4.227+/-0.338 χ^2/NDF : 25788.4/77

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2255.964 $\pm$ 0.400 χ^2 /NDF: 1255946.0/21

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: 2241.213 $\pm$ 0.287 χ^2 /NDF: 2429280.3/41

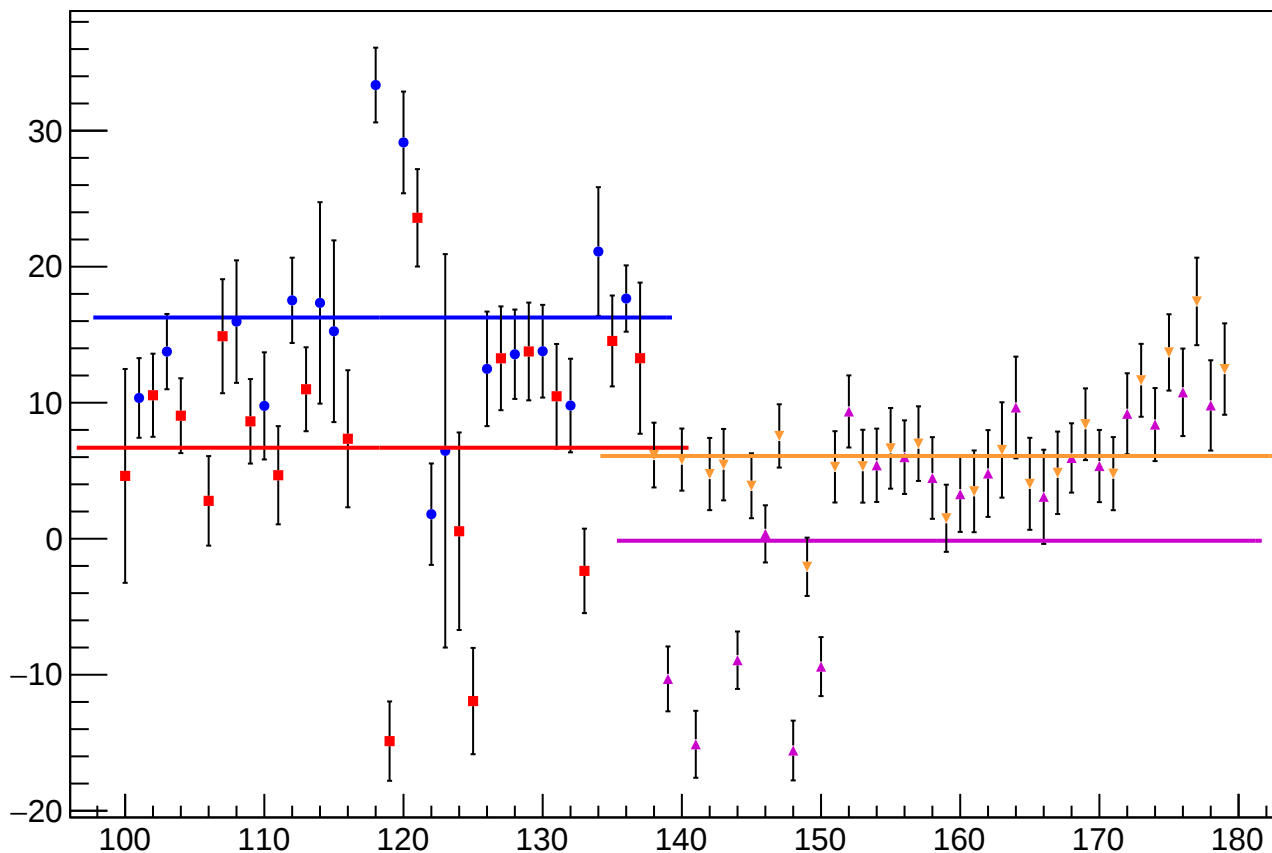
Right: 2258.395 $\pm$ 0.432 χ^2 /NDF: 259847.1/35

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

Out: 2248.994 $\pm$ 0.332 χ^2 /NDF: 1403770.1/40

All: 2246.475 $\pm$ 0.239 χ^2 /NDF: 2690226.7/77

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

Left Out: 6.085 ± 0.573 $\chi^2/\text{NDF}: 49.9/21$

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: 3.071 ± 0.411 $\chi^2/\text{NDF}: 333.8/41$

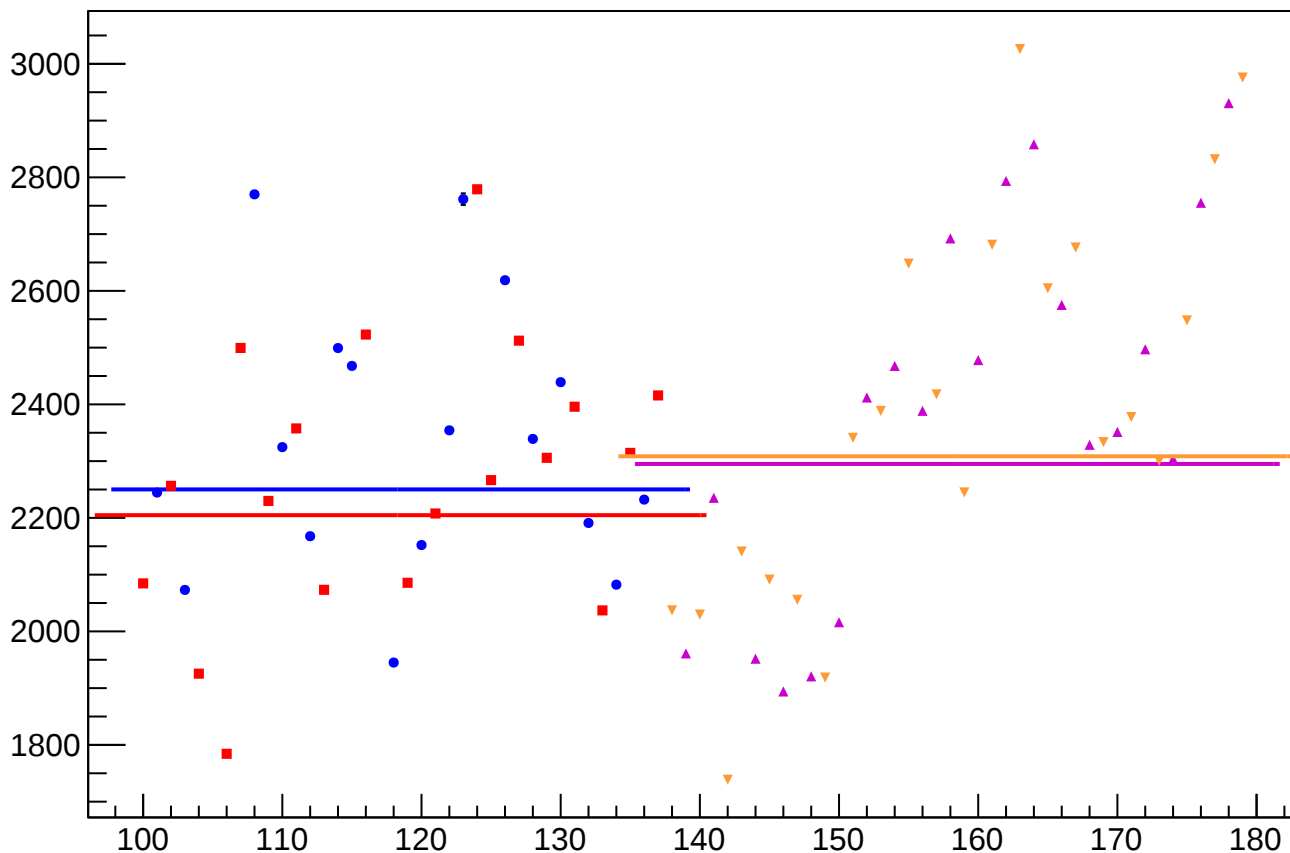
Right: 11.249 ± 0.601 $\chi^2/\text{NDF}: 278.0/35$

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

Out: 6.280 ± 0.471 $\chi^2/\text{NDF}: 184.2/40$

All: 5.679 ± 0.340 $\chi^2/\text{NDF}: 737.7/77$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2250.175 $\pm$ 0.616 χ^2 /NDF: 97578.1/16

Left Out: 2308.528 $\pm$ 0.405 χ^2 /NDF: 602525.5/21

Right Out: 2204.789 $\pm$ 0.587 χ^2 /NDF: 126227.4/18

Left In: 2294.990 $\pm$ 0.418 χ^2 /NDF: 547405.7/19

Left: 2301.982 $\pm$ 0.291 χ^2 /NDF: 1150471.8/41

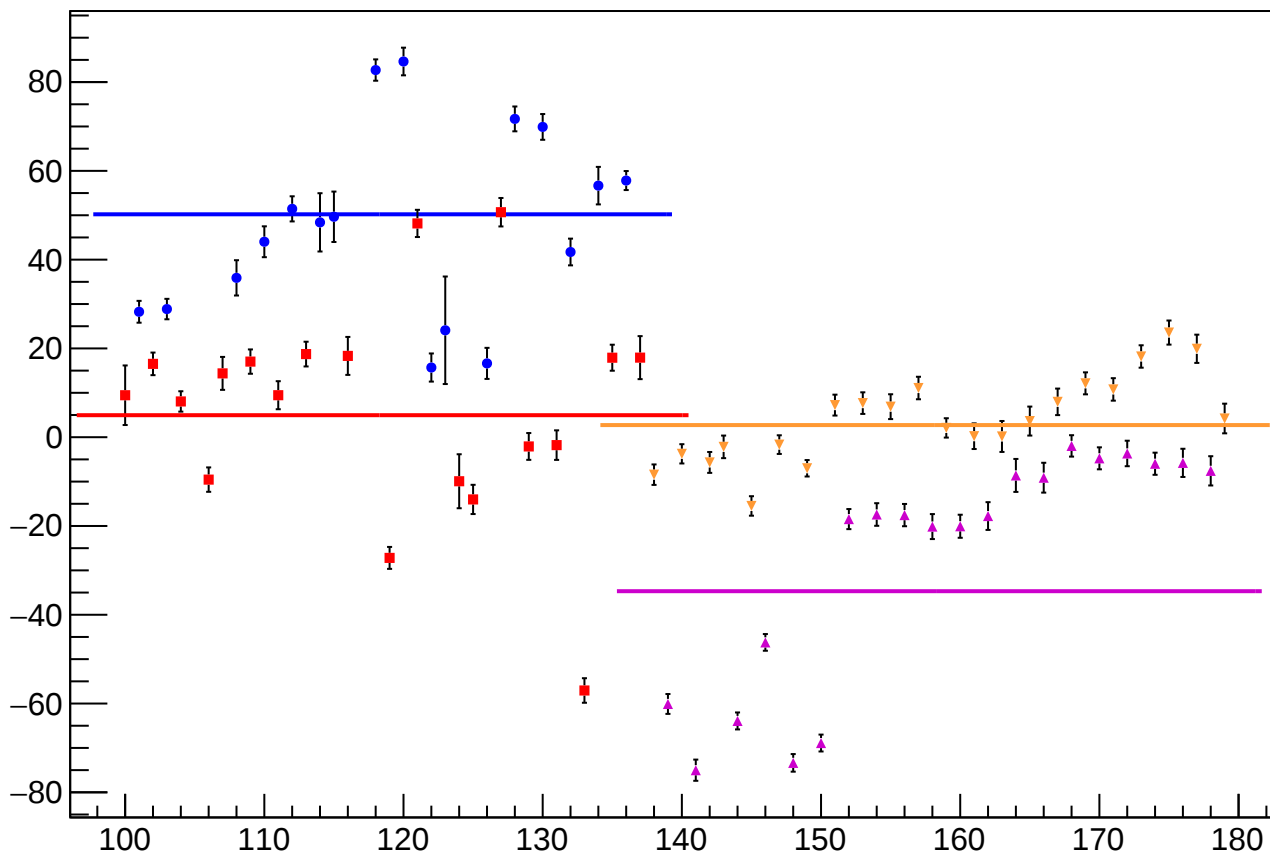
Right: 2226.396 $\pm$ 0.425 χ^2 /NDF: 226647.4/35

In: 2280.849 $\pm$ 0.346 χ^2 /NDF: 648603.5/36

Out: 2275.122 $\pm$ 0.333 χ^2 /NDF: 749897.0/40

All: 2277.878 $\pm$ 0.240 χ^2 /NDF: 1398642.6/77

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.215 $\pm$ 0.751 χ^2 /NDF: 830.3/16

Left Out: 2.732 $\pm$ 0.534 χ^2 /NDF:325.4/21

Right Out: 4.958 $\pm$ 0.713 χ^2 /NDF: 1262.6/18

Left In: -34.691 $\pm$ 0.549 χ^2 /NDF:2458.7/19

Left: -15.444 $\pm$ 0.383 χ^2 /NDF: 5172.8/41

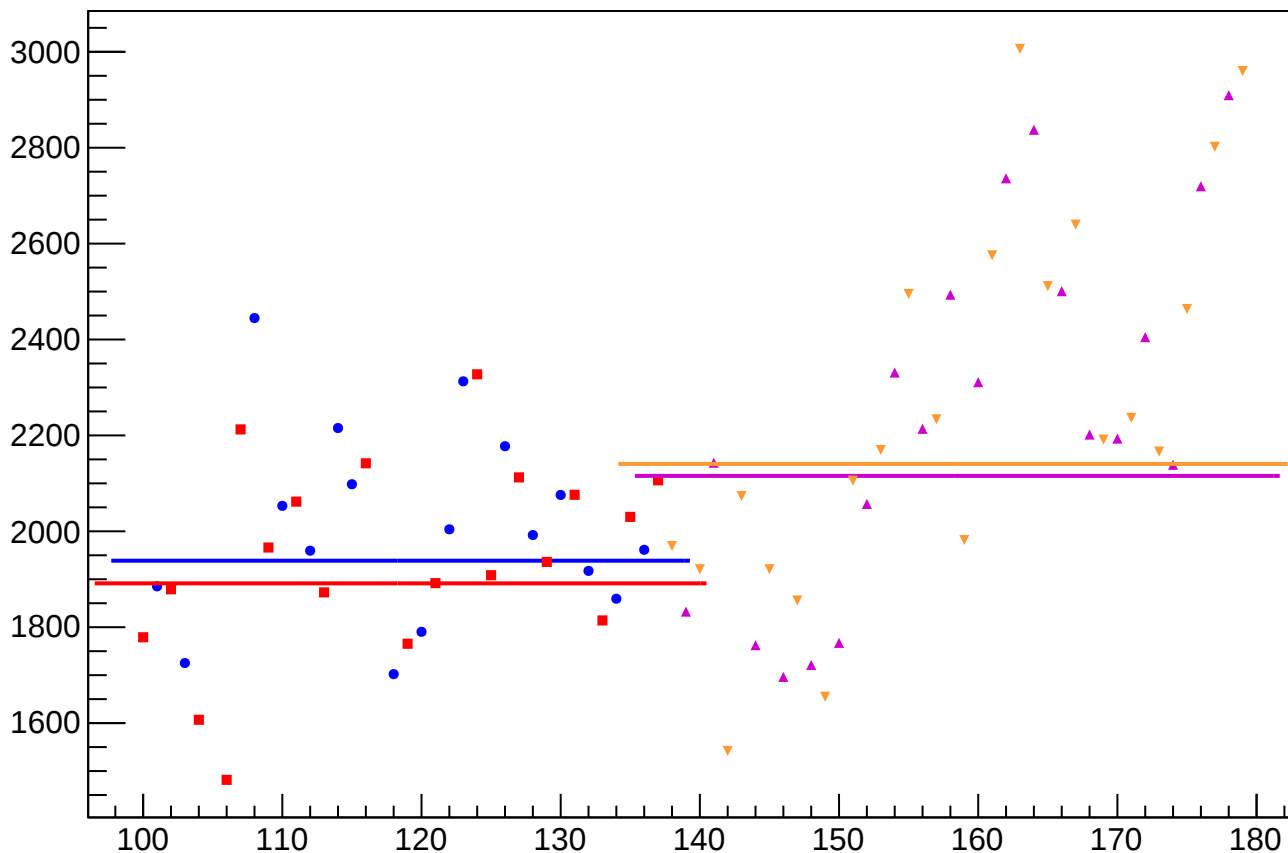
Right: 26.432 $\pm$ 0.517 χ^2 /NDF: 4002.4/35

In: -5.100 $\pm$ 0.443 χ^2 /NDF:11621.1/36

Out: 3.531 $\pm$ 0.427 χ^2 /NDF:1594.2/40

All: -0.627 $\pm$ 0.308 χ^2 /NDF: 13411.8/77

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2140.533 $\pm$ 0.377 χ^2 /NDF: 891816.1/21

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: 2128.419 $\pm$ 0.271 χ^2 /NDF: 1700038.7/41

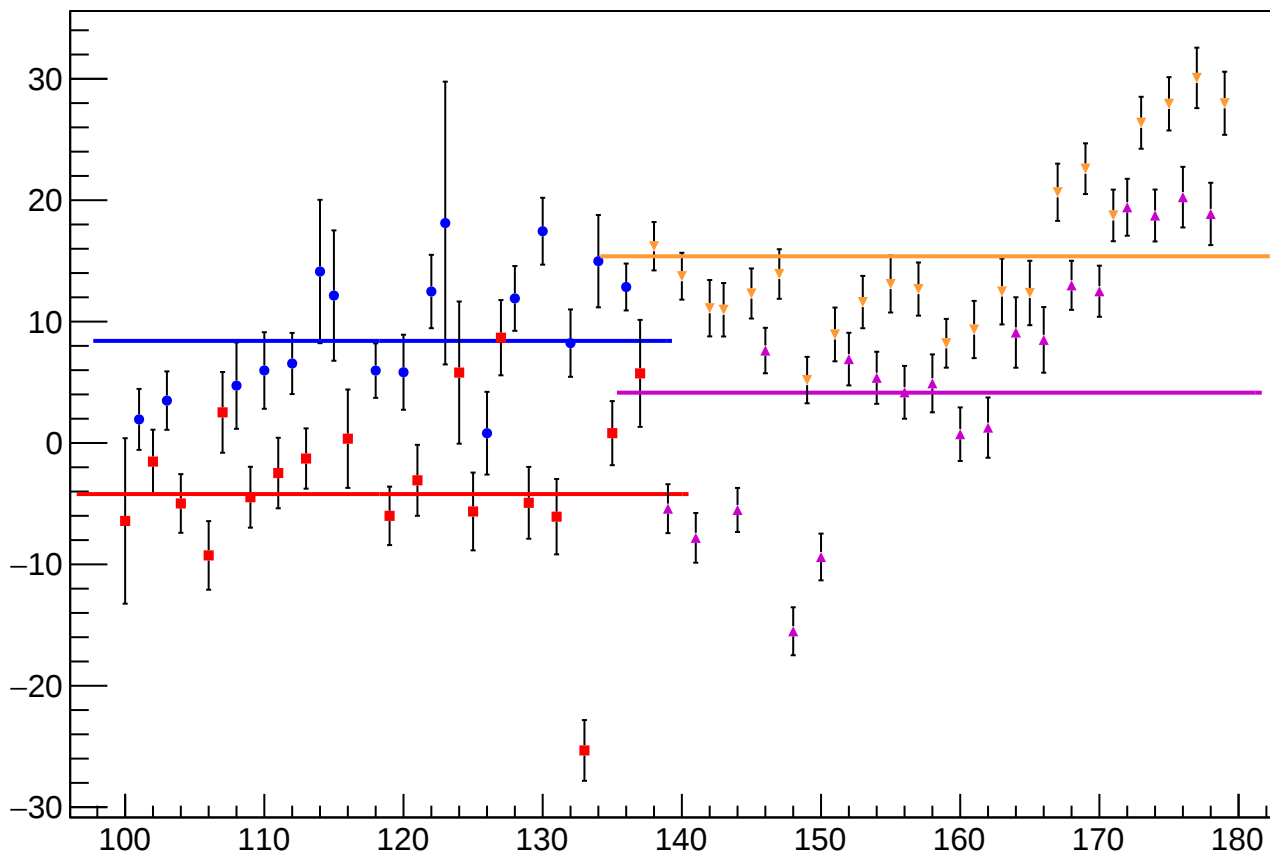
Right: 1913.873 $\pm$ 0.366 χ^2 /NDF: 250923.8/35

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

Out: 2051.176 $\pm$ 0.302 χ^2 /NDF: 1194754.1/40

All: 2052.506 $\pm$ 0.218 χ^2 /NDF: 2173375.7/77

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 15.380 ± 0.469 $\chi^2/\text{NDF}: 212.0/21$

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

Left In: 4.145 ± 0.487 $\chi^2/\text{NDF}: 446.6/19$

Left: 9.967 ± 0.338 $\chi^2/\text{NDF}: 934.9/41$

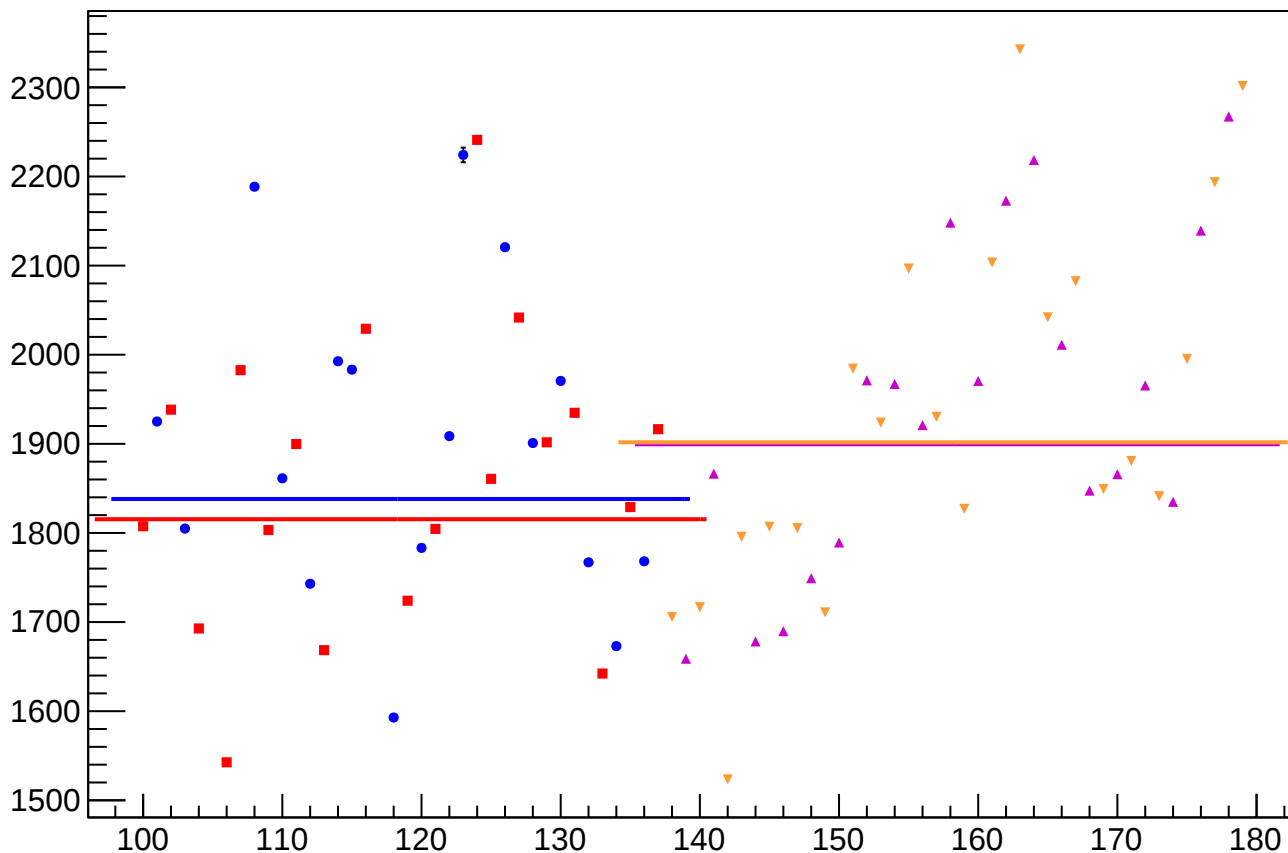
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 5.505 ± 0.402 $\chi^2/\text{NDF}: 515.7/36$

Out: 9.091 ± 0.387 $\chi^2/\text{NDF}: 884.6/40$

All: 7.366 ± 0.279 $\chi^2/\text{NDF}: 1441.6/77$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.143+/-0.503 χ^2/NDF : 82878.7/16

Left Out: 1901.736+/-0.332 χ^2/NDF :310182.1/21

Right Out: 1815.403+/-0.483 χ^2/NDF : 87419.0/18

Left In: 1899.456+/-0.344 χ^2/NDF :246734.9/19

Left: 1900.637+/-0.239 χ^2/NDF : 556939.8/41

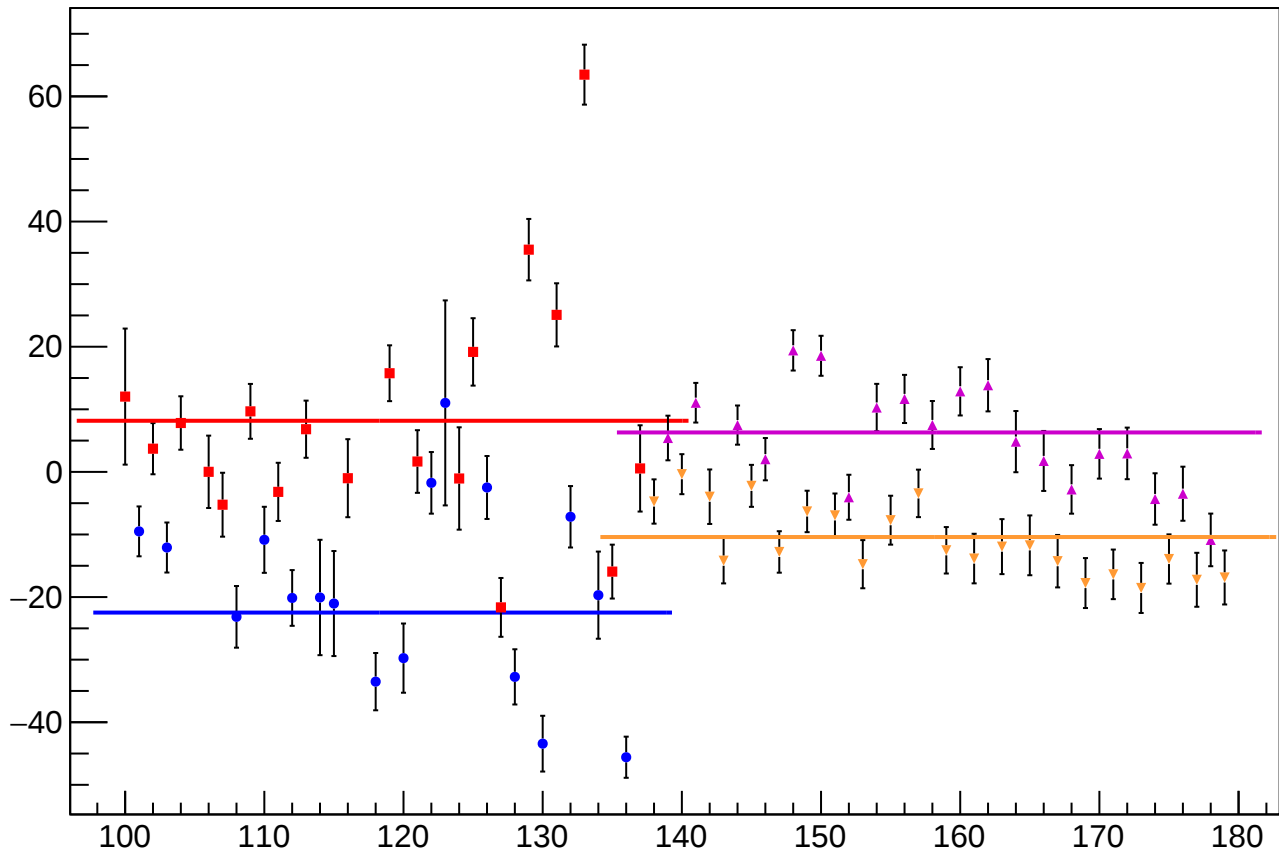
Right: 1826.303+/-0.348 χ^2/NDF : 171362.3/35

In: 1879.907+/-0.284 χ^2/NDF :339737.8/36

Out: 1874.019+/-0.273 χ^2/NDF :419335.5/40

All: 1876.851+/-0.197 χ^2/NDF : 759296.5/77

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.477 $\pm$ 1.195 χ^2 /NDF: 154.7/16

Left Out: -10.407 $\pm$ 0.813 χ^2 /NDF: 47.3/21

Right Out: 8.169 $\pm$ 1.157 χ^2 /NDF: 276.9/18

Left In: 6.302 $\pm$ 0.841 χ^2 /NDF: 89.3/19

Left: -2.334 $\pm$ 0.585 χ^2 /NDF: 340.6/41

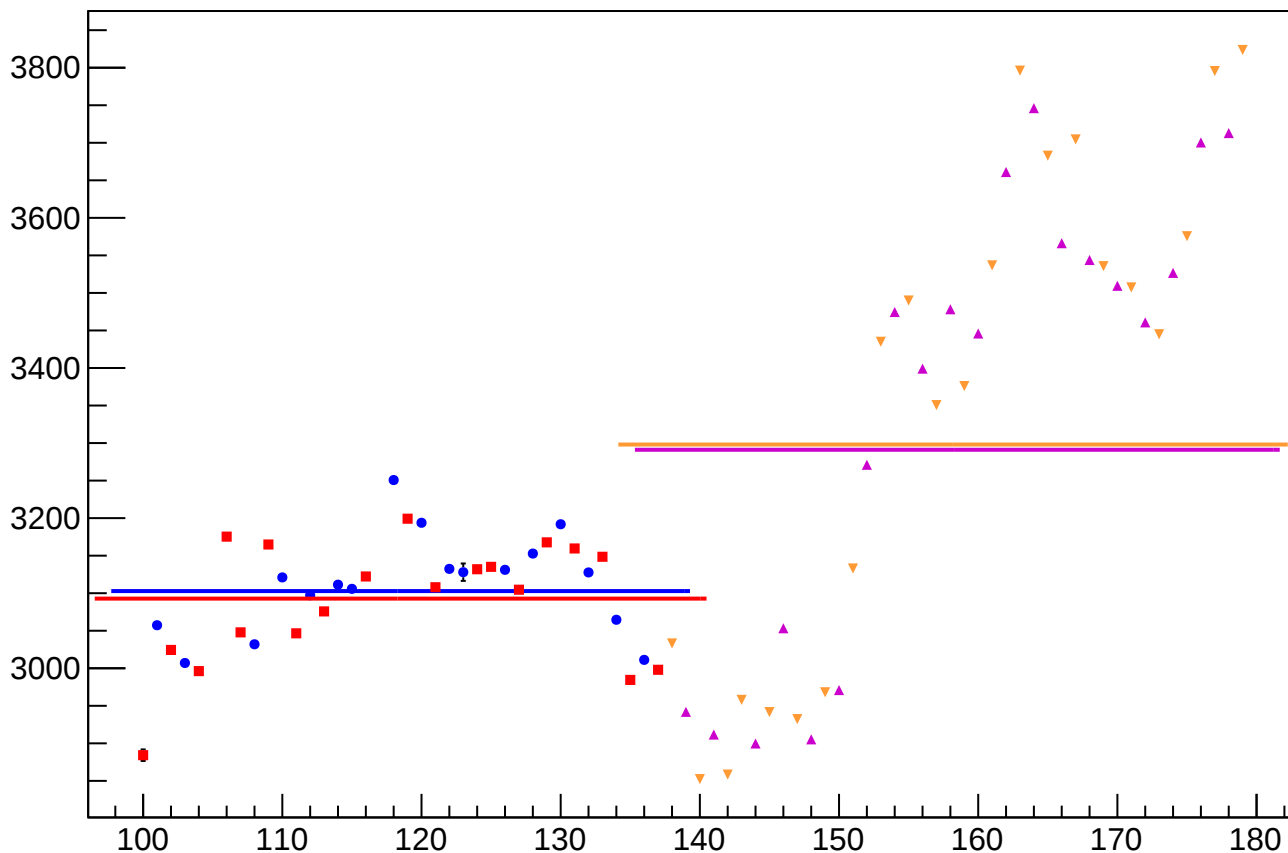
Right: -6.656 $\pm$ 0.831 χ^2 /NDF: 771.3/35

In: -3.235 $\pm$ 0.688 χ^2 /NDF: 632.0/36

Out: -4.261 $\pm$ 0.665 χ^2 /NDF: 496.8/40

All: -3.765 $\pm$ 0.478 χ^2 /NDF: 1130.0/77

diff_bpm0l01X_rms vs Slug, Sign Corrected



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

Left Out: 3298.040 $\pm$ 0.575 χ^2 /NDF:314384.1/21

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

Left In: 3291.080 $\pm$ 0.595 χ^2 /NDF:254282.7/19

Left: 3294.677 $\pm$ 0.413 χ^2 /NDF: 568737.5/41

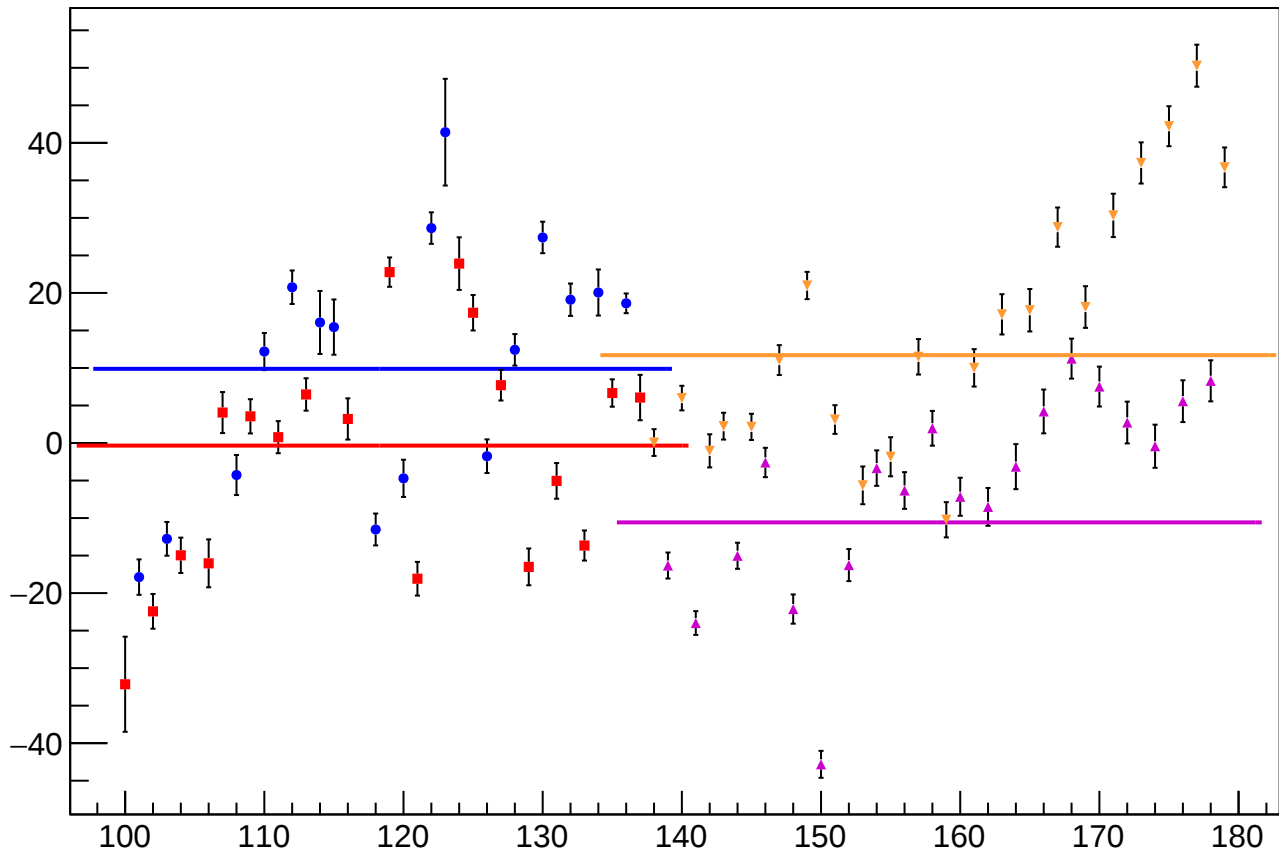
Right: 3097.657 $\pm$ 0.588 χ^2 /NDF: 15181.4/35

In: 3228.704 $\pm$ 0.486 χ^2 /NDF:294822.6/36

Out: 3230.136 $\pm$ 0.470 χ^2 /NDF:364297.2/40

All: 3229.444 $\pm$ 0.338 χ^2 /NDF: 659124.2/77

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.887 ± 0.559 χ^2/NDF : 703.6/16

Left Out: 11.711 ± 0.477 χ^2/NDF : 950.0/21

Right Out: -0.346 ± 0.547 χ^2/NDF : 628.9/18

Left In: -10.577 ± 0.501 χ^2/NDF : 776.5/19

Left: 1.107 ± 0.346 χ^2/NDF : 2764.3/41

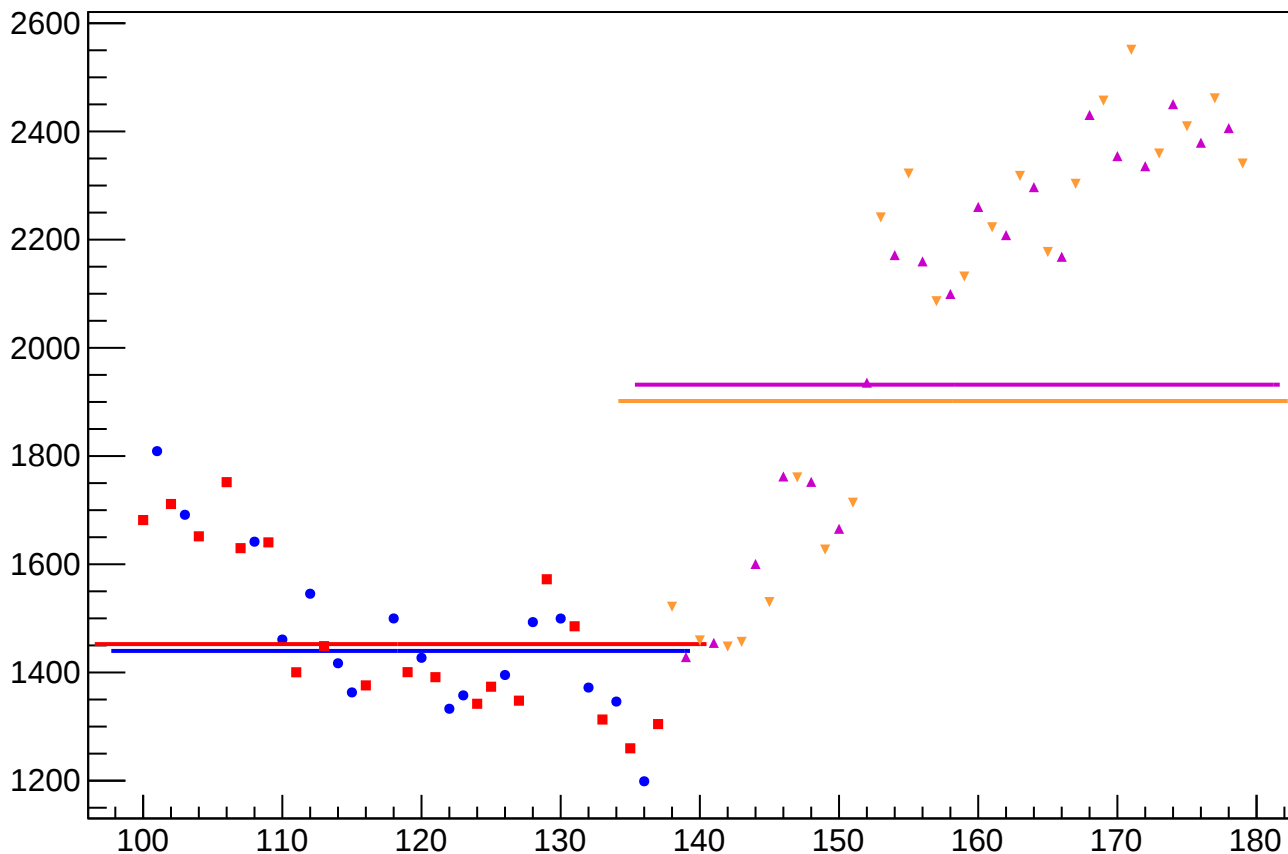
Right: 4.654 ± 0.391 χ^2/NDF : 1503.6/35

In: -1.471 ± 0.373 χ^2/NDF : 2222.7/36

Out: 6.499 ± 0.360 χ^2/NDF : 1854.9/40

All: 2.662 ± 0.259 χ^2/NDF : 4314.1/77

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1901.746+/-0.337 χ^2/NDF : 1321971.6/21

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: 1916.105+/-0.244 χ^2/NDF : 2312729.0/41

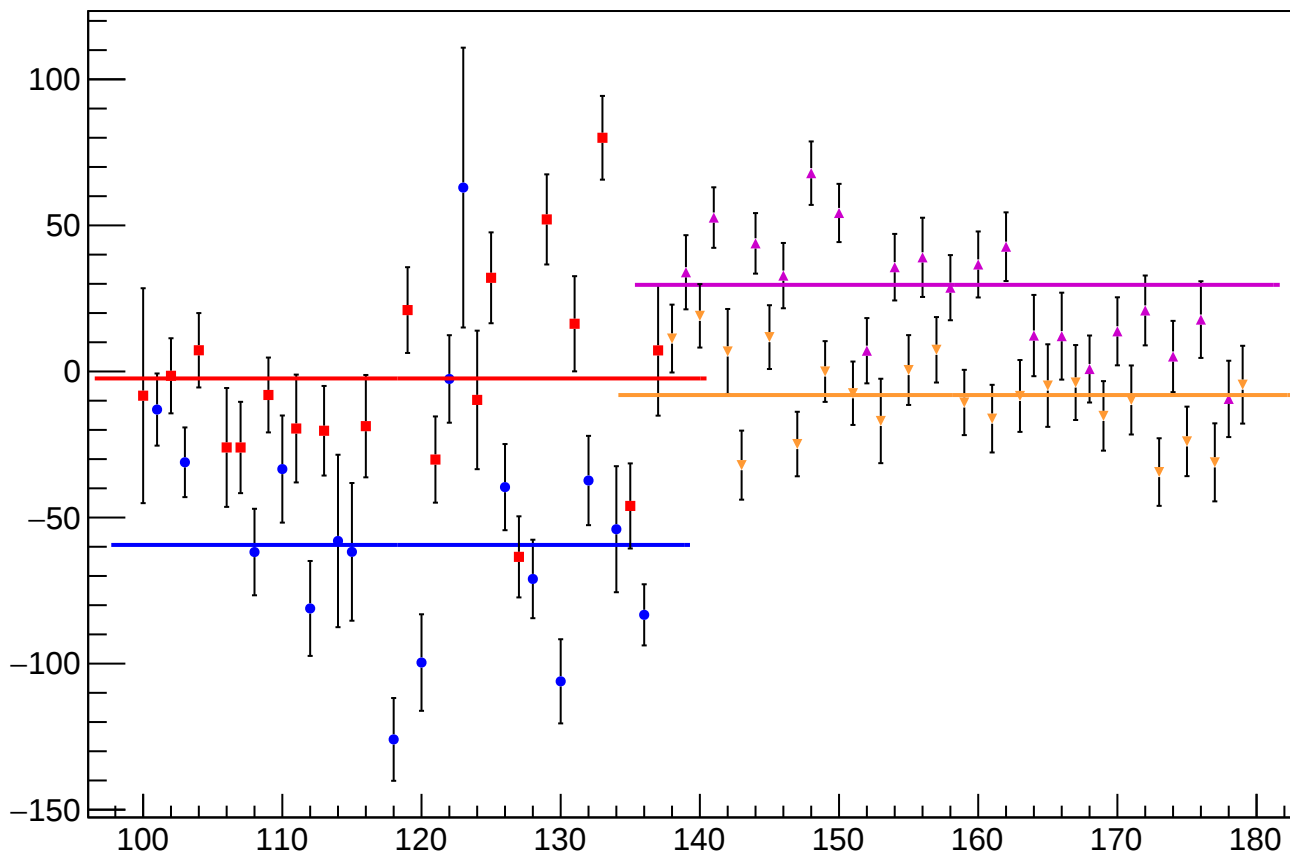
Right: 1446.283+/-0.277 χ^2/NDF : 311864.1/35

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

Out: 1707.514+/-0.254 χ^2/NDF : 2226831.2/40

All: 1710.133+/-0.183 χ^2/NDF : 4245601.1/77

diff_bpm0l02X_mean vs Slug, Sign Corrected



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

Left Out: -8.069 $\pm$ 2.540 χ^2/NDF : 34.3/21

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: 10.205 $\pm$ 1.823 χ^2/NDF : 198.6/41

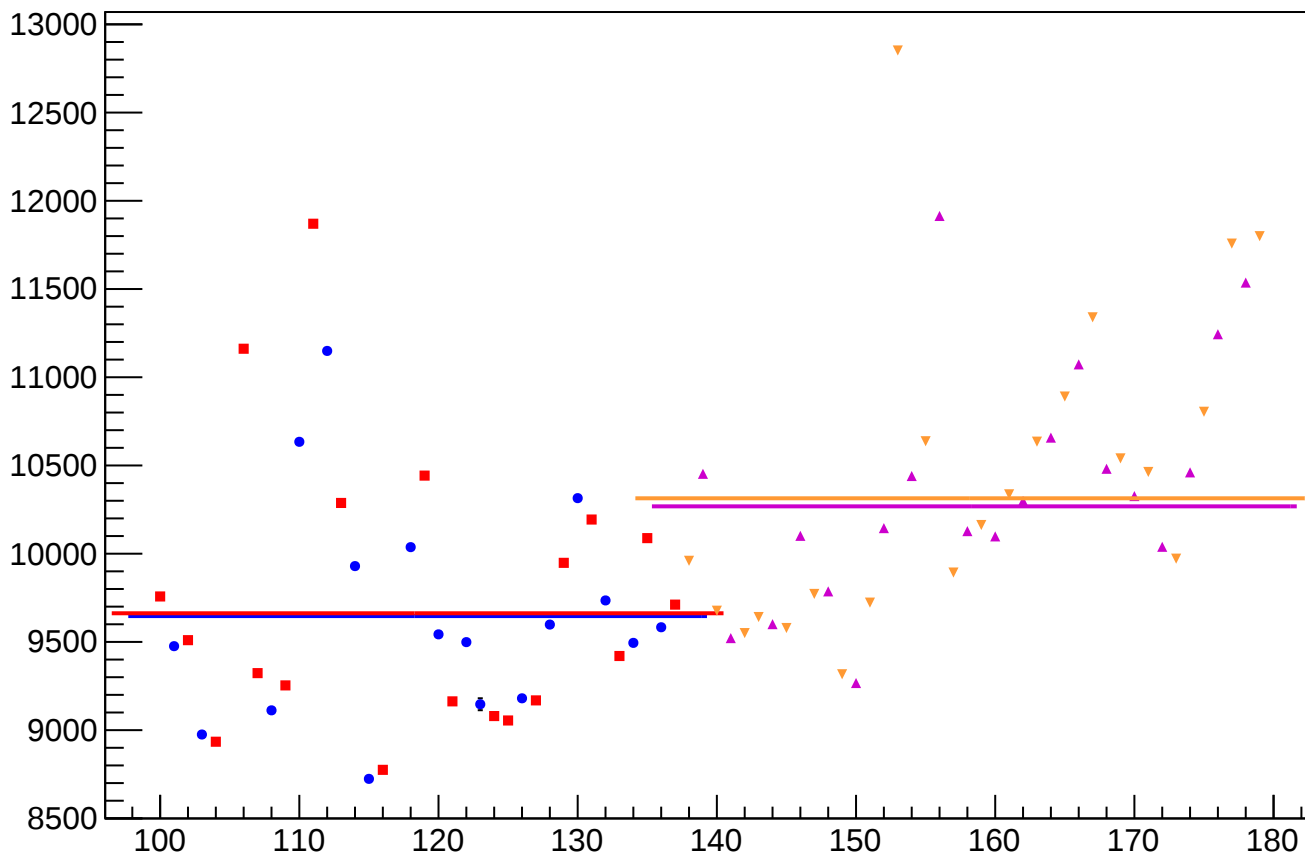
Right: -30.113 $\pm$ 2.601 χ^2/NDF : 306.8/35

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

Out: -6.202 $\pm$ 2.081 χ^2/NDF : 129.9/40

All: -3.082 $\pm$ 1.493 χ^2/NDF : 666.4/77

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

Left Out: 10313.977 ± 1.796 $\chi^2/\text{NDF}: 197253.5/21$

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

Left In: 10268.336 ± 1.852 $\chi^2/\text{NDF}: 113913.1/19$

Left: 10291.865 ± 1.289 $\chi^2/\text{NDF}: 311479.6/41$

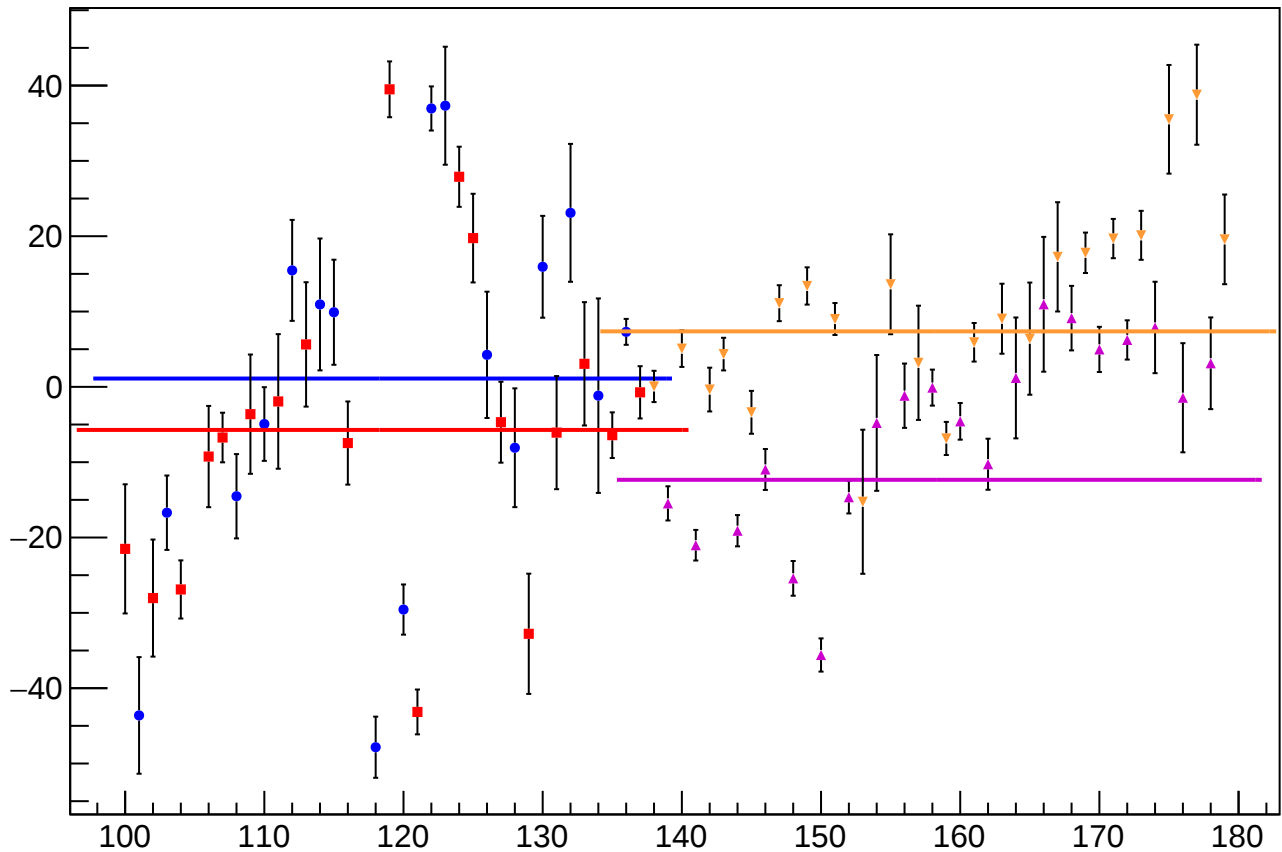
Right: 9654.635 ± 1.839 $\chi^2/\text{NDF}: 121662.9/35$

In: 10062.825 ± 1.516 $\chi^2/\text{NDF}: 195215.0/36$

Out: 10099.810 ± 1.471 $\chi^2/\text{NDF}: 318109.9/40$

All: 10081.867 ± 1.056 $\chi^2/\text{NDF}: 513631.5/77$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



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

Left Out: 7.368 ± 0.651 $\chi^2/\text{NDF}: 191.2/21$

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

Left In: -12.338 ± 0.656 $\chi^2/\text{NDF}: 358.8/19$

Left: -2.408 ± 0.462 $\chi^2/\text{NDF}: 1005.2/41$

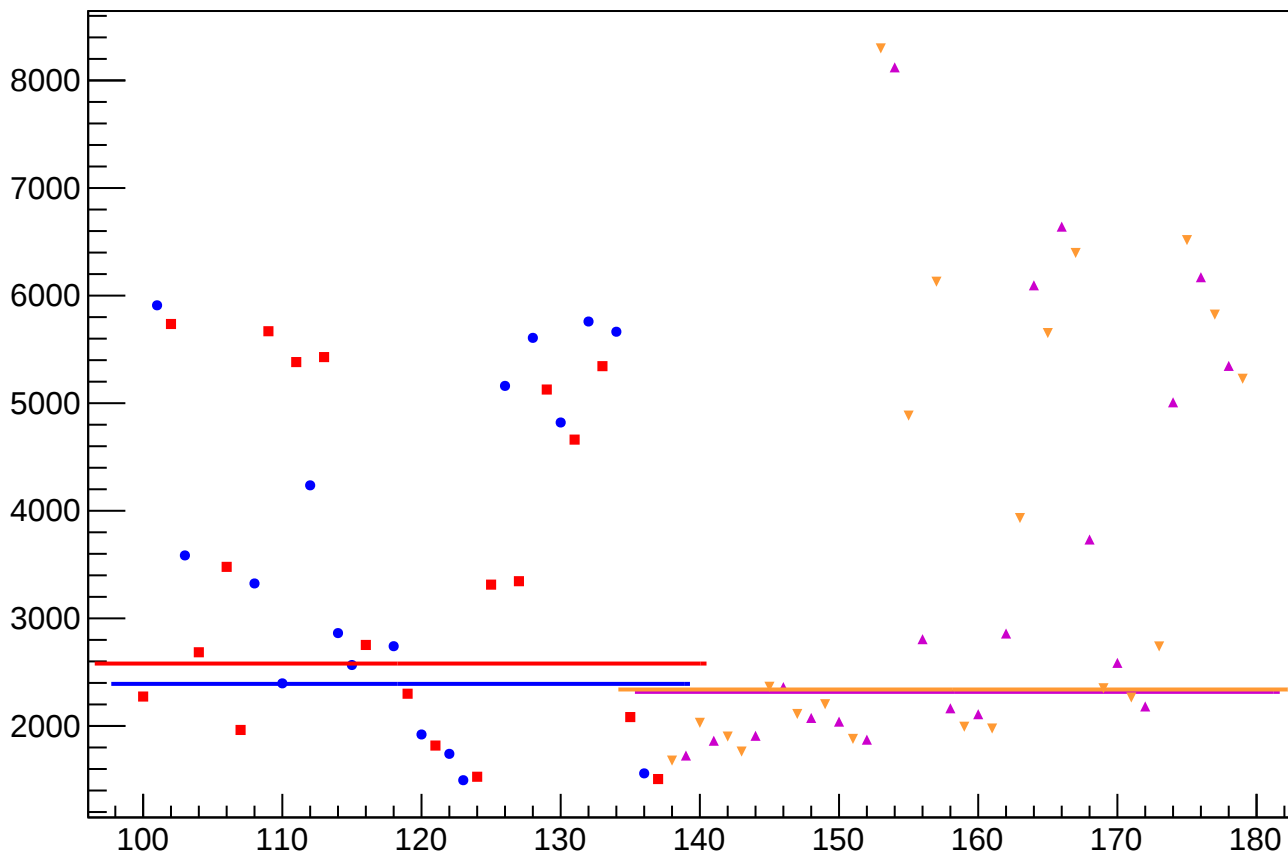
Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$

In: -8.651 ± 0.559 $\chi^2/\text{NDF}: 963.8/36$

Out: 3.937 ± 0.559 $\chi^2/\text{NDF}: 753.2/40$

All: -2.360 ± 0.395 $\chi^2/\text{NDF}: 1970.8/77$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2338.985 $\pm$ 0.460 χ^2/NDF : 5182668.1/21

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: 2328.048 $\pm$ 0.327 χ^2/NDF : 9171662.6/41

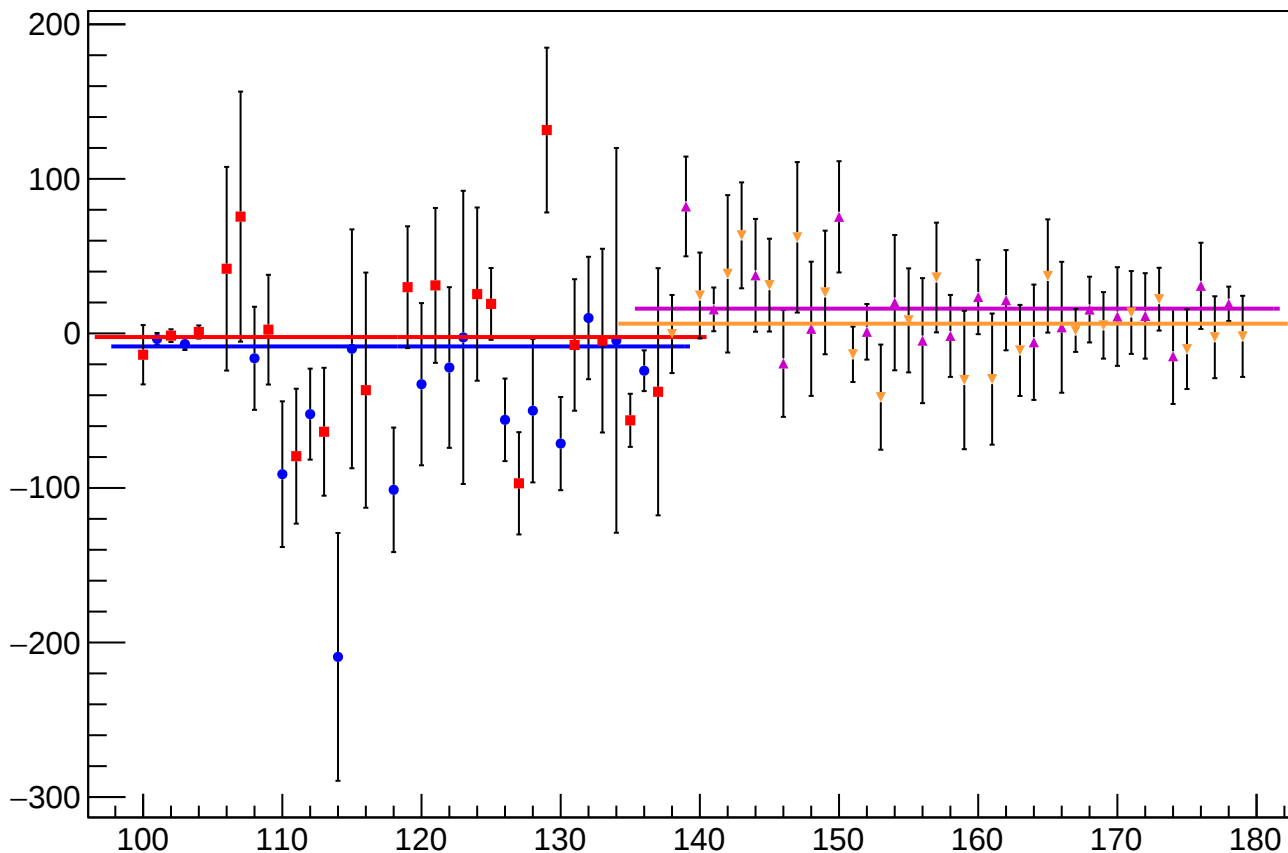
Right: 2483.443 $\pm$ 0.539 χ^2/NDF : 4996468.7/35

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

Out: 2402.204 $\pm$ 0.395 χ^2/NDF : 7619954.7/40

All: 2369.736 $\pm$ 0.279 χ^2/NDF : 14228886.6/77

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 6.304 ± 5.736 χ^2/NDF : 13.7/21

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

Left In: 16.023 ± 5.474 χ^2/NDF : 11.8/19

Left: 11.390 ± 3.960 χ^2/NDF : 26.9/41

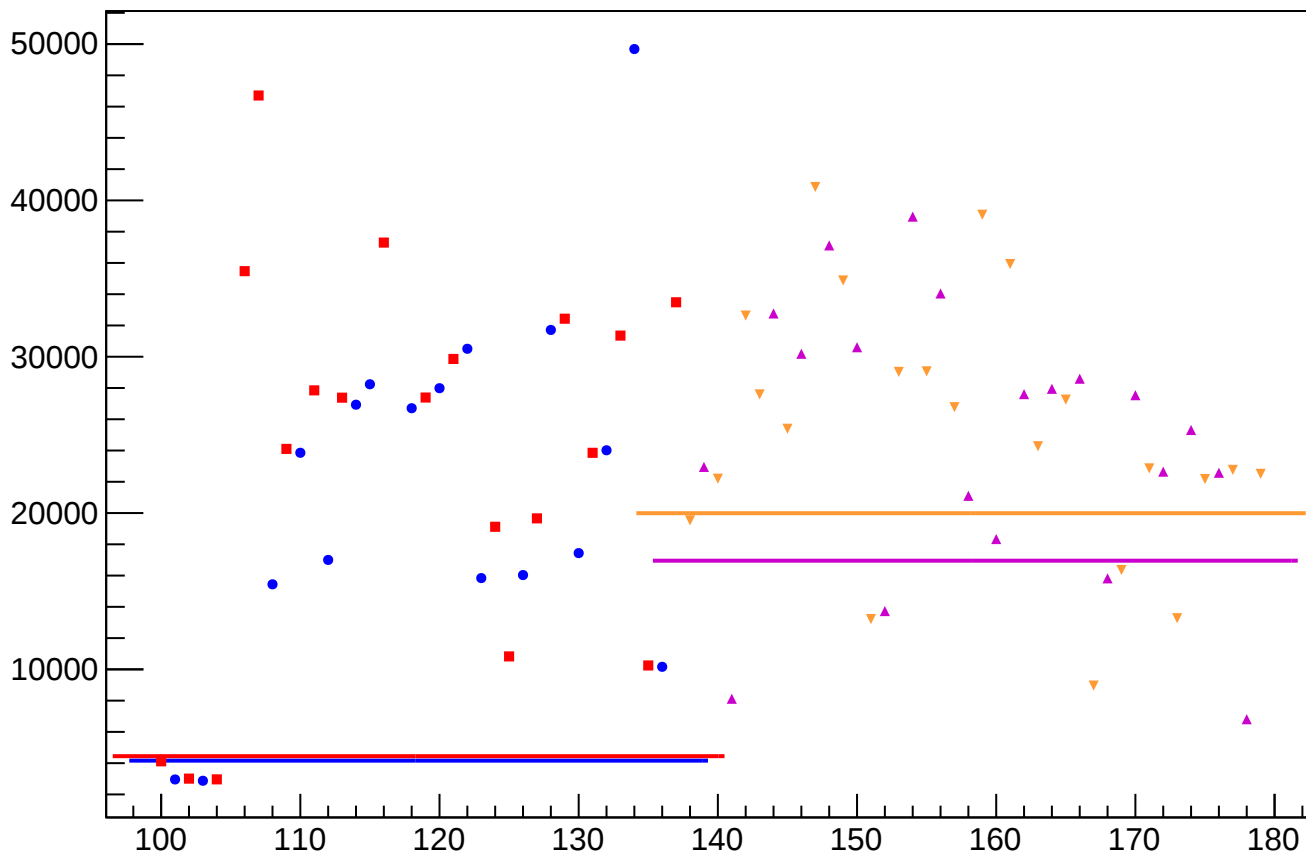
Right: -5.615 ± 1.896 χ^2/NDF : 66.1/35

In: -3.965 ± 2.339 χ^2/NDF : 57.0/36

Out: -0.696 ± 2.507 χ^2/NDF : 50.2/40

All: -2.443 ± 1.710 χ^2/NDF : 108.1/77

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

Left Out: 19990.555+/-4.056 χ^2/NDF : 3971834.6/21

Right Out: 4447.123+/-1.971 χ^2/NDF : 7426930.4/18

Left In: 16952.272+/-3.871 χ^2/NDF : 5961335.5/19

Left: 18400.642+/-2.800 χ^2/NDF : 10226840.3/41

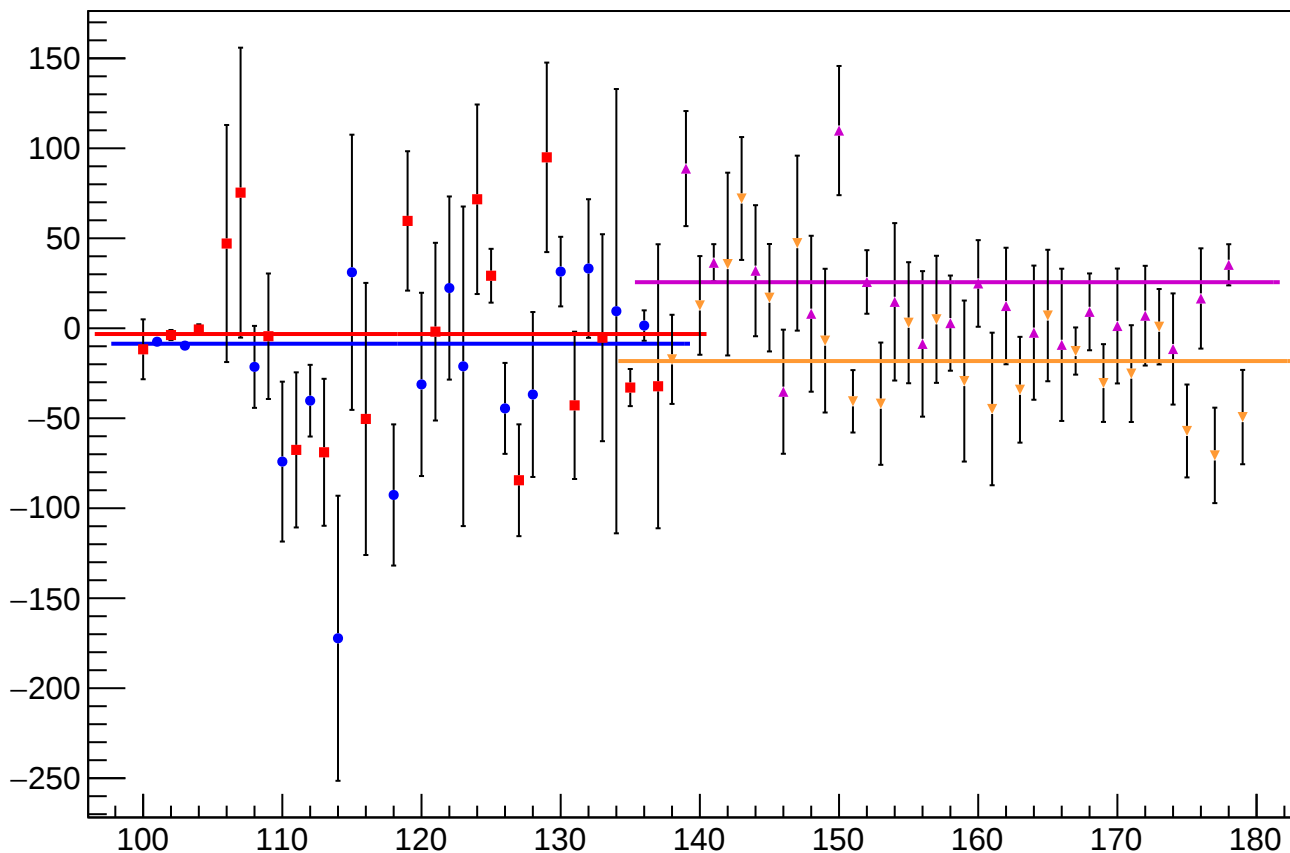
Right: 4294.168+/-1.341 χ^2/NDF : 13428219.0/35

In: 6497.724+/-1.654 χ^2/NDF : 20874724.8/36

Out: 7415.722+/-1.772 χ^2/NDF : 23281252.7/40

All: 6925.064+/-1.209 χ^2/NDF : 44299352.8/71

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -18.219 $\pm$ 5.660 χ^2/NDF : 25.9/21

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

Left In: 25.607 $\pm$ 5.165 χ^2/NDF : 20.6/19

Left: 5.693 $\pm$ 3.815 χ^2/NDF : 79.2/41

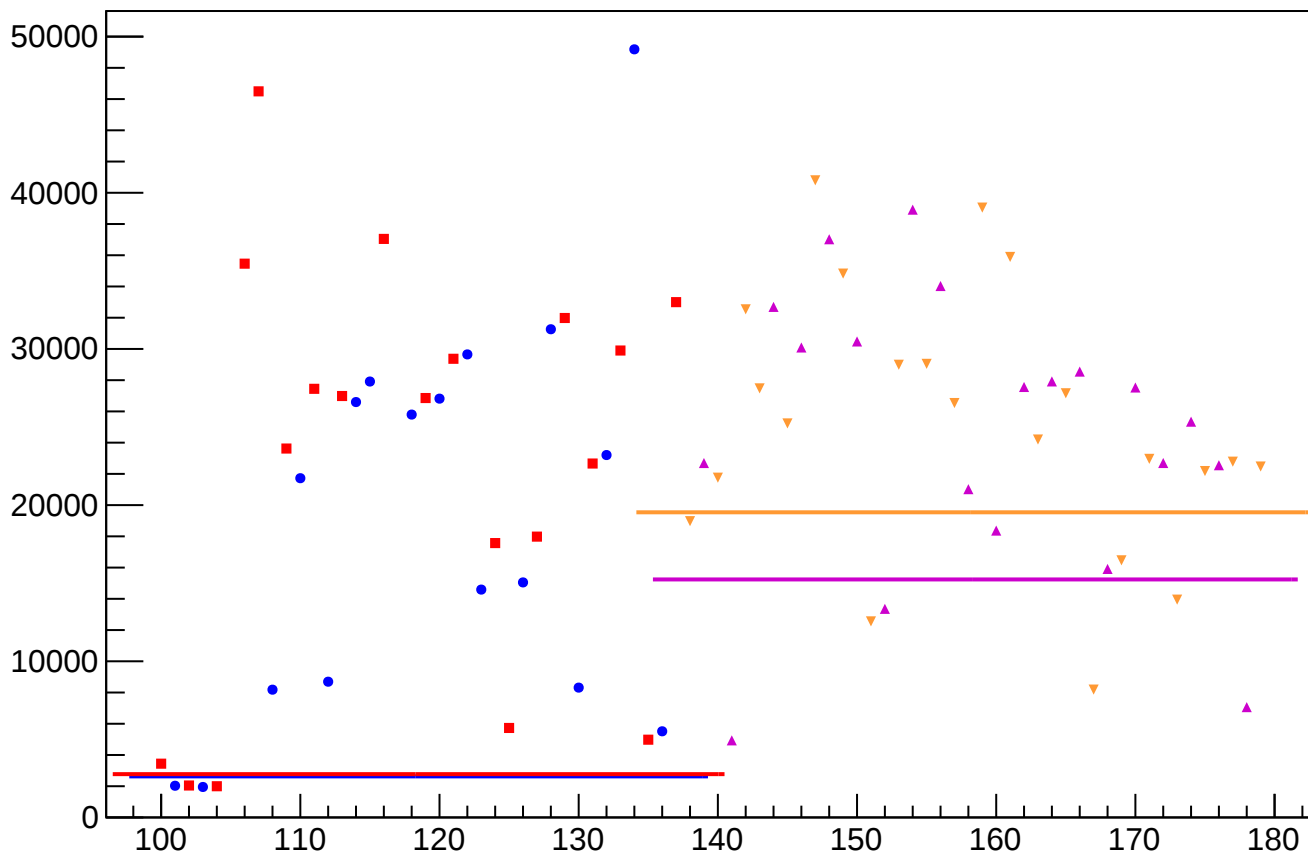
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -4.965 $\pm$ 1.681 χ^2/NDF : 84.2/36

Out: -4.748 $\pm$ 1.820 χ^2/NDF : 69.1/40

All: -4.865 $\pm$ 1.235 χ^2/NDF : 153.3/77

diff_bpm0l03Y_rms vs Slug, Sign Corrected



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

Left Out: 19539.706 ± 4.002 $\chi^2/\text{NDF}: 4324749.6/21$

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: 17193.991 ± 2.698 $\chi^2/\text{NDF}: 12464560.9/41$

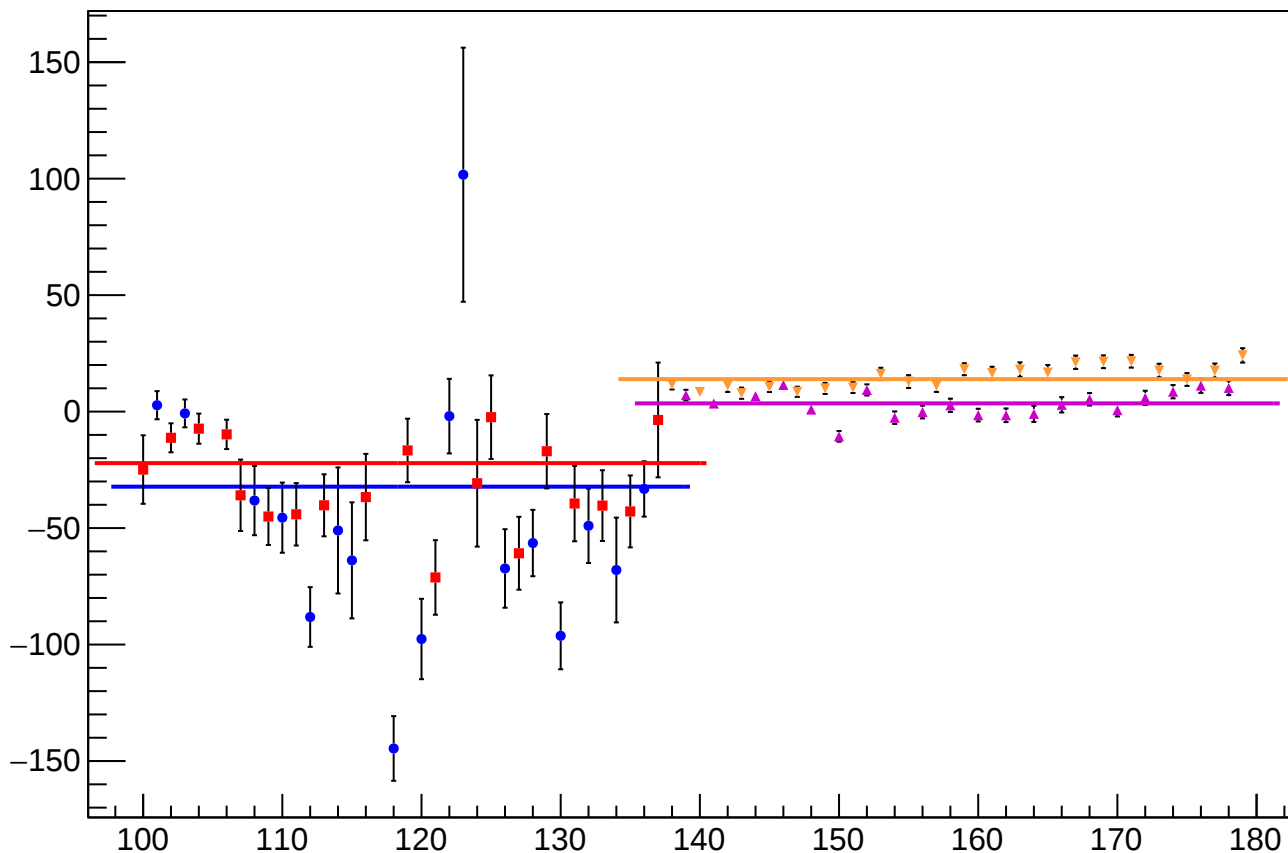
Right: 2696.425 ± 0.923 $\chi^2/\text{NDF}: 13430817.7/35$

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

Out: 4507.367 ± 1.287 $\chi^2/\text{NDF}: 27896167.0/40$

All: 4215.301 ± 0.873 $\chi^2/\text{NDF}: 51749143.8/7$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

Left Out: 13.940 ± 0.557 χ^2/NDF : 71.7/21

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: 8.944 ± 0.402 χ^2/NDF : 334.0/41

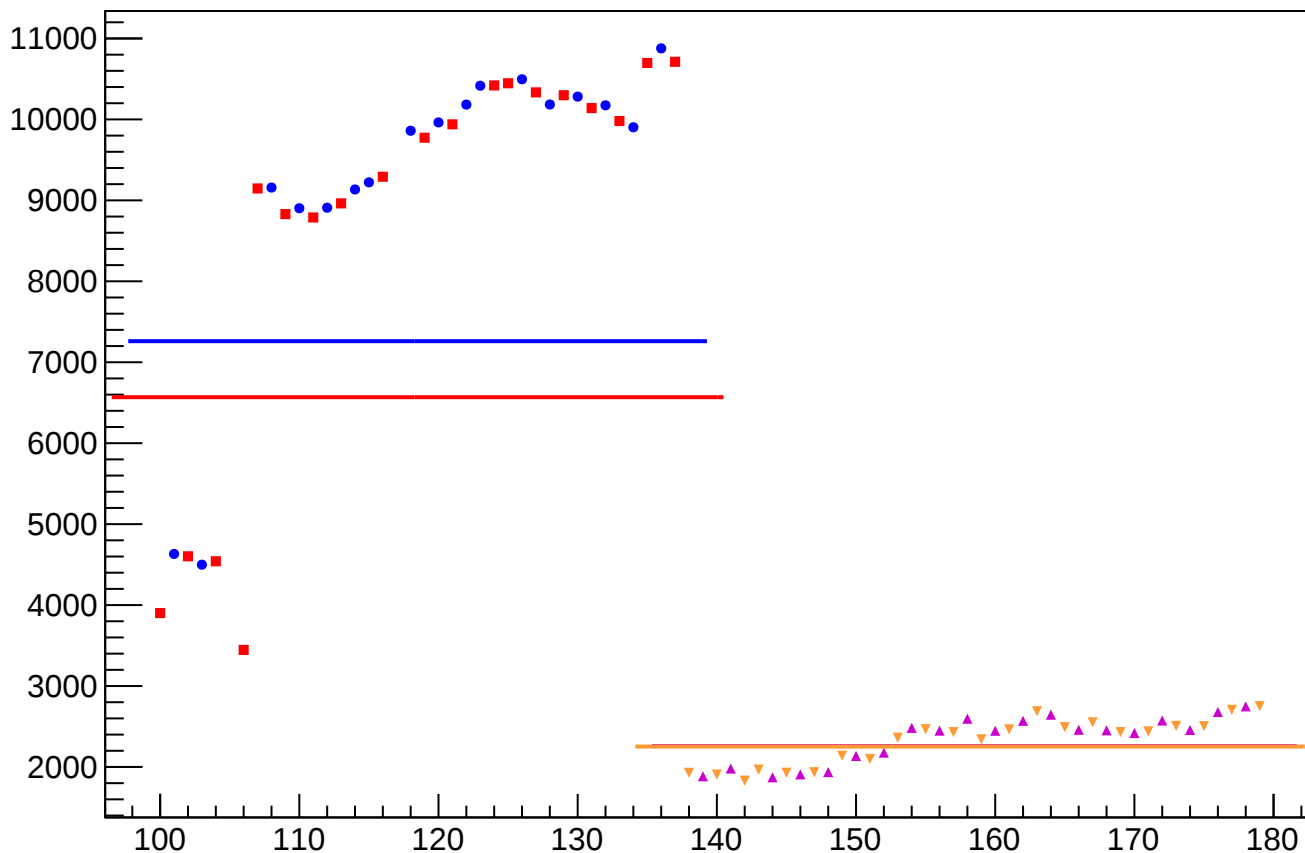
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 2.230 ± 0.569 χ^2/NDF : 437.2/36

Out: 12.434 ± 0.546 χ^2/NDF : 290.1/40

All: 7.549 ± 0.394 χ^2/NDF : 894.8/77

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2252.356+/-0.394 χ^2/NDF : 520483.0/21

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: 2255.099+/-0.284 χ^2/NDF : 1036890.1/41

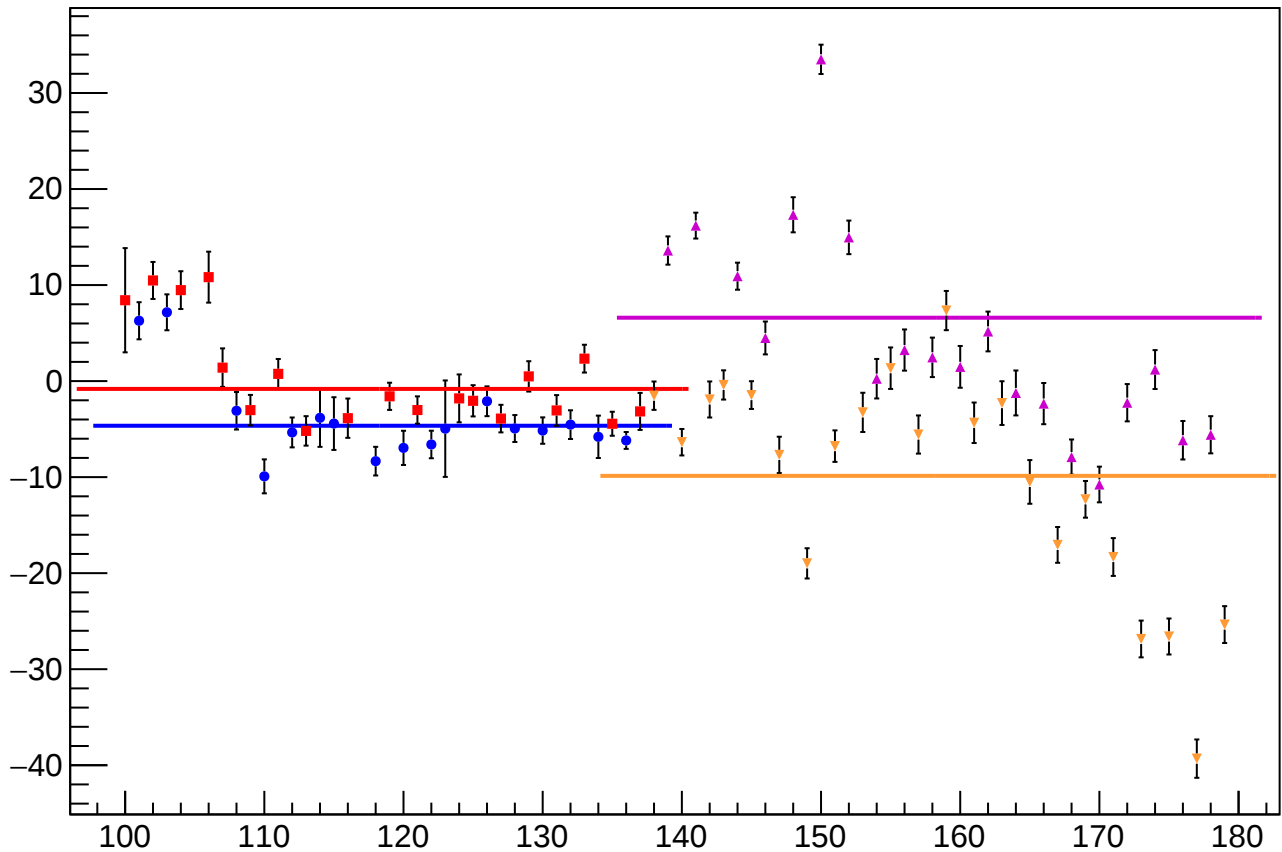
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

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

Out: 2432.634+/-0.386 χ^2/NDF : 7726940.0/40

All: 2436.357+/-0.279 χ^2/NDF : 15304218.3/71

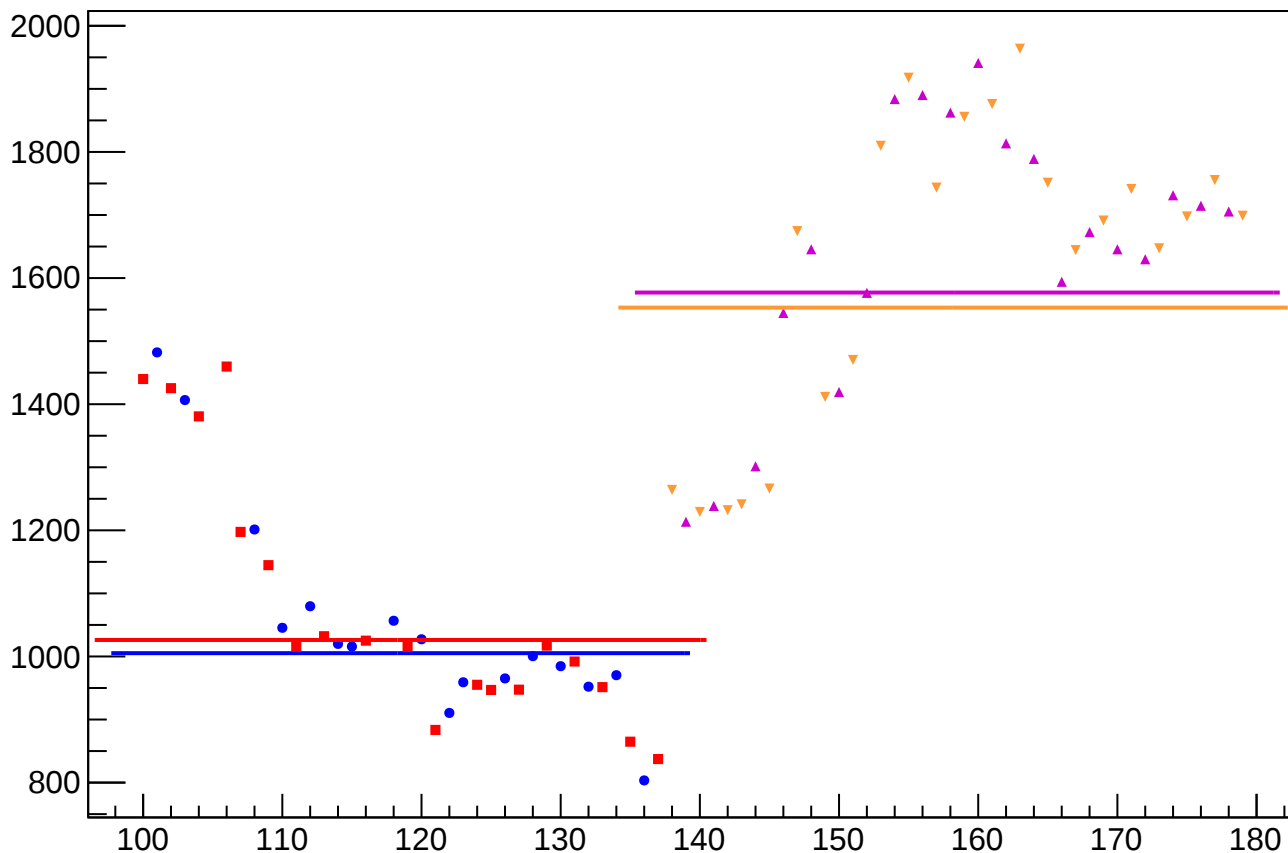
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -9.868 ± 0.387 $\chi^2/\text{NDF}: 774.5/21$
 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: -2.041 ± 0.280 $\chi^2/\text{NDF}: 2397.7/41$
 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: -5.364 ± 0.274 $\chi^2/\text{NDF}: 1171.0/40$
 All: -2.381 ± 0.197 $\chi^2/\text{NDF}: 2670.1/77$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1553.136 $\pm$ 0.273 χ^2 /NDF: 798201.5/21

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

Left In: 1577.037 $\pm$ 0.287 χ^2 /NDF: 613238.2/19

Left: 1564.496 $\pm$ 0.198 χ^2 /NDF: 1415072.9/41

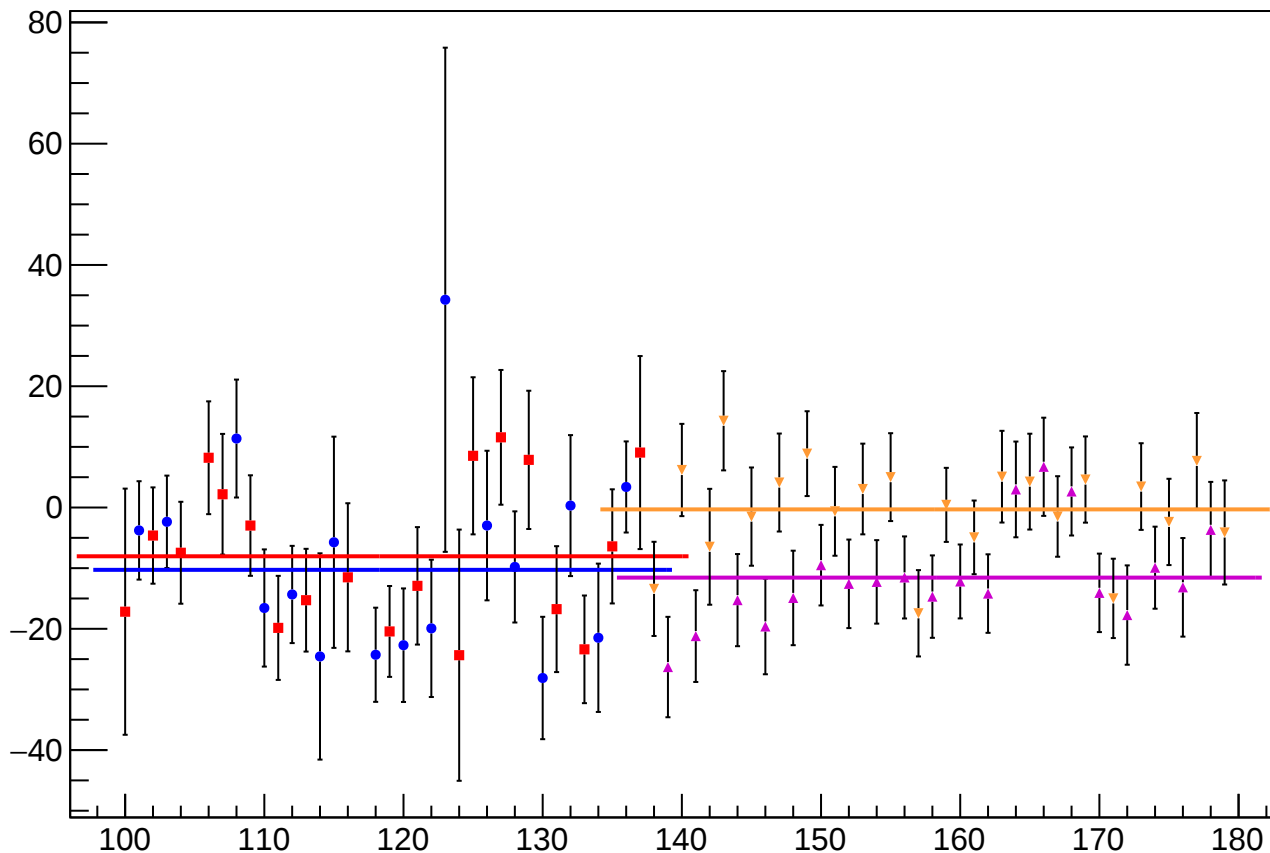
Right: 1015.803 $\pm$ 0.195 χ^2 /NDF: 697945.4/35

In: 1281.415 $\pm$ 0.200 χ^2 /NDF: 3024119.4/36

Out: 1290.944 $\pm$ 0.194 χ^2 /NDF: 2980315.4/40

All: 1286.321 $\pm$ 0.139 χ^2 /NDF: 6005608.1/77

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.308 ± 1.565 χ^2/NDF : 24.3/21

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: -5.738 ± 1.126 χ^2/NDF : 70.2/41

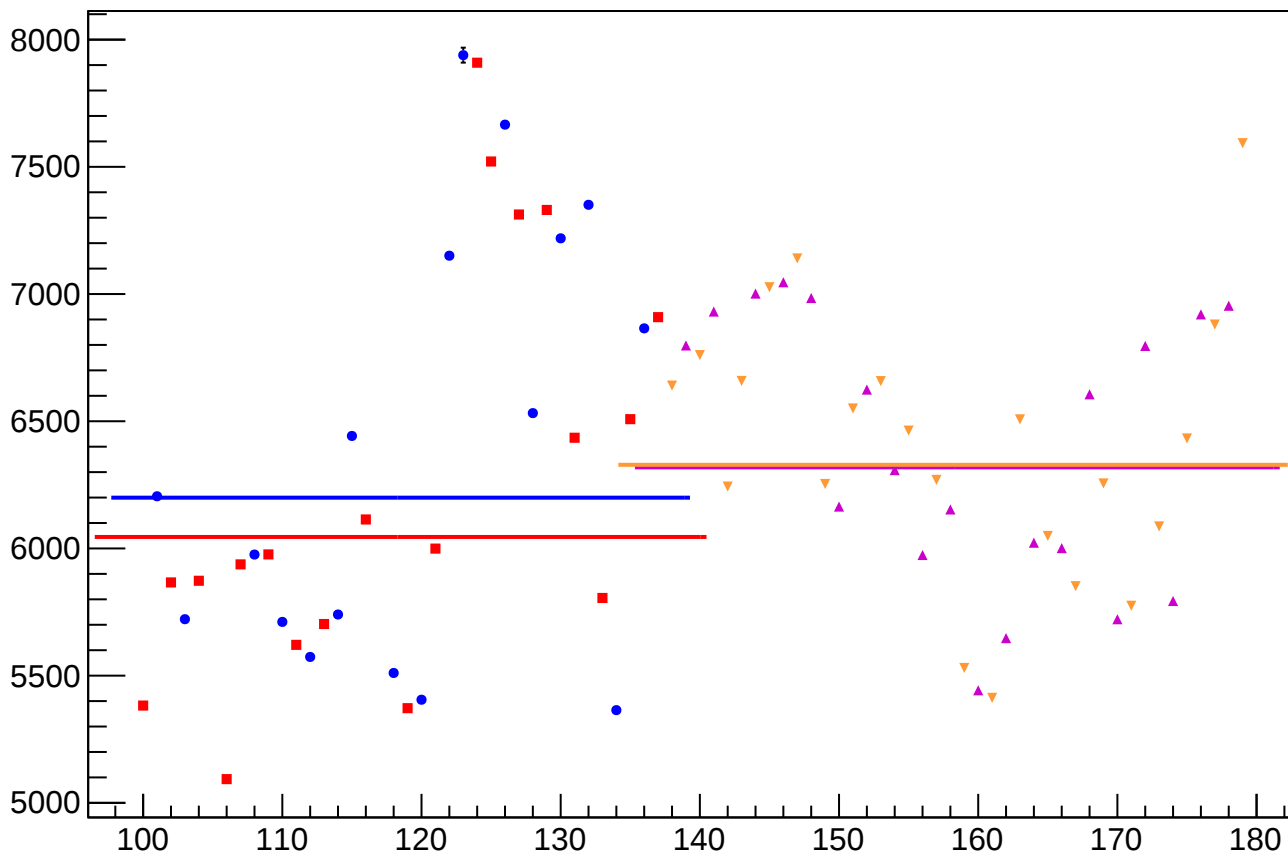
Right: -9.097 ± 1.655 χ^2/NDF : 46.7/35

In: -11.160 ± 1.344 χ^2/NDF : 44.6/36

Out: -2.787 ± 1.290 χ^2/NDF : 54.9/40

All: -6.801 ± 0.931 χ^2/NDF : 119.7/77

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6328.787 $\pm$ 1.107 χ^2/NDF : 218825.8/21

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: 6323.897 $\pm$ 0.796 χ^2/NDF : 428979.3/41

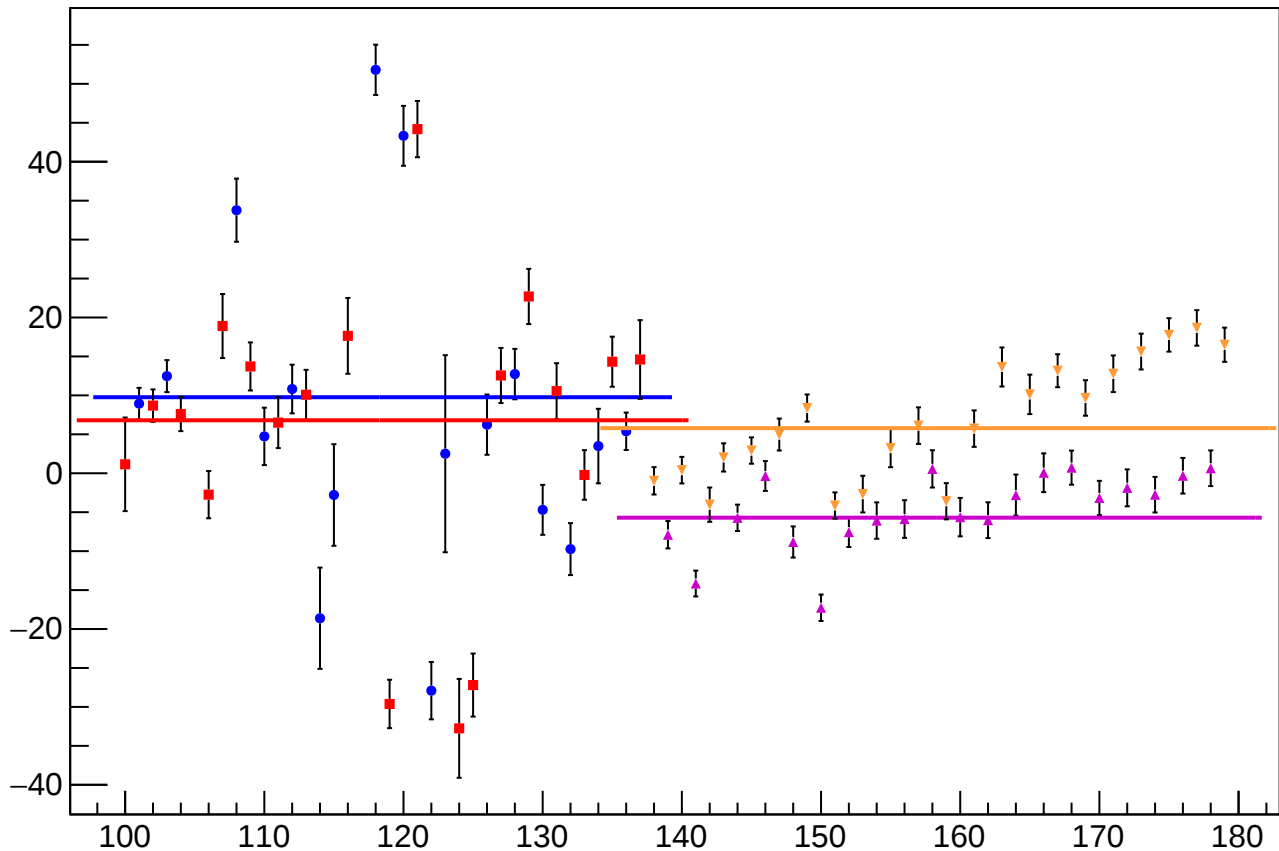
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

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

Out: 6237.857 $\pm$ 0.912 χ^2/NDF : 398203.1/40

All: 6258.796 $\pm$ 0.658 χ^2/NDF : 784539.8/77

diff_bpm0l05Y_mean vs Slug, Sign Corrected



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

Left Out: 5.793 ± 0.444 $\chi^2/\text{NDF}: 261.0/21$

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: 0.359 ± 0.323 $\chi^2/\text{NDF}: 703.4/41$

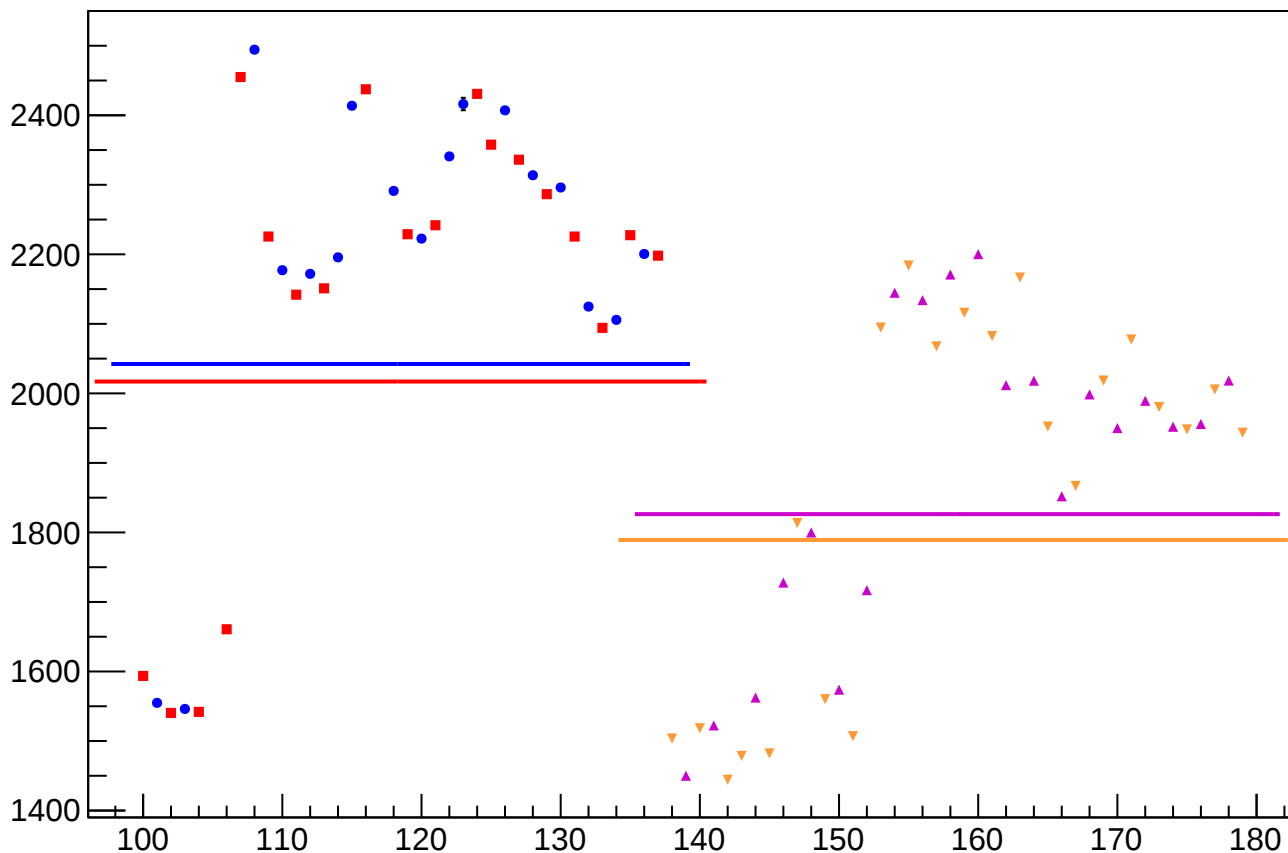
Right: 8.222 ± 0.552 $\chi^2/\text{NDF}: 902.8/35$

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

Out: 6.048 ± 0.384 $\chi^2/\text{NDF}: 684.1/40$

All: 2.364 ± 0.279 $\chi^2/\text{NDF}: 1757.5/77$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1789.213 $\pm$ 0.314 χ^2/NDF : 711880.0/21

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: 1806.754 $\pm$ 0.228 χ^2/NDF : 1218164.7/41

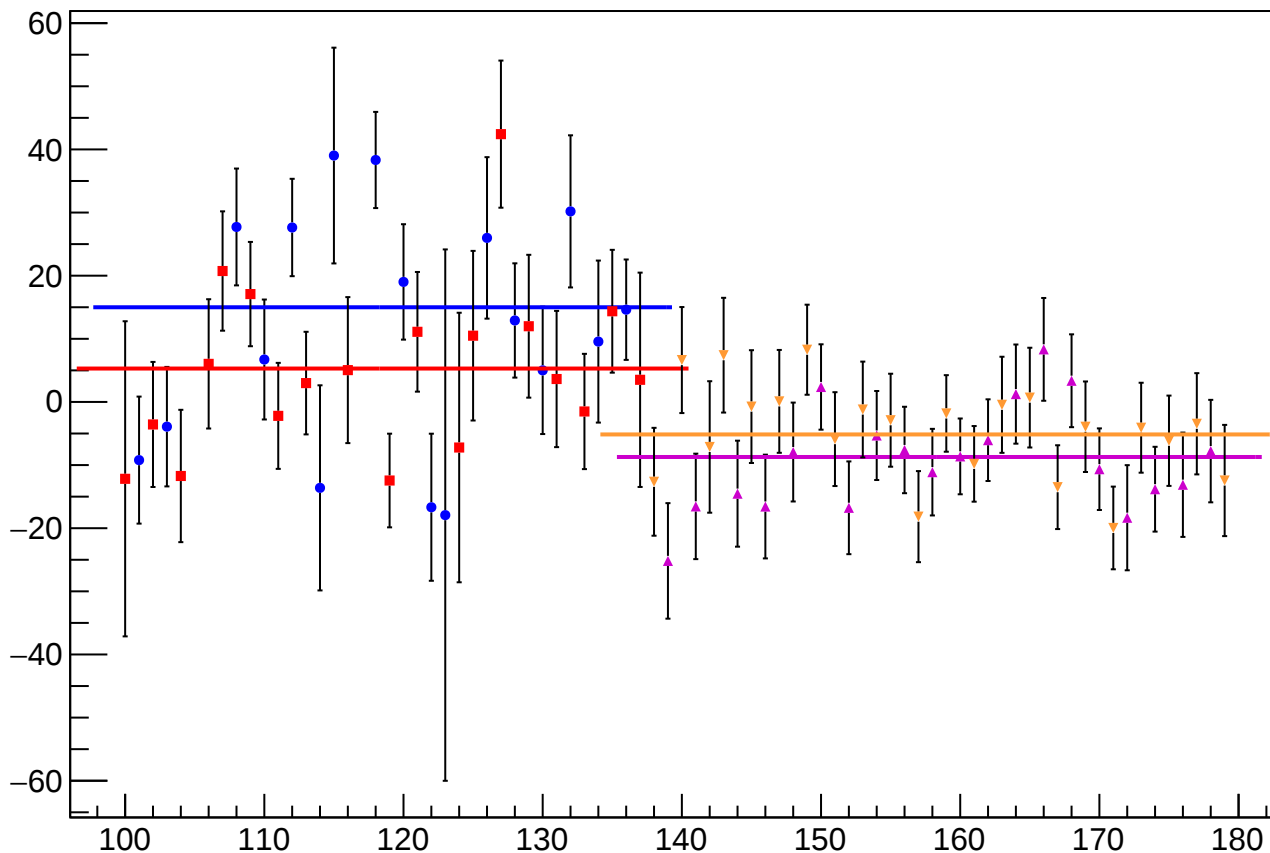
Right: 2029.129 $\pm$ 0.390 χ^2/NDF : 733495.1/35

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

Out: 1846.736 $\pm$ 0.272 χ^2/NDF : 1220172.2/40

All: 1863.449 $\pm$ 0.197 χ^2/NDF : 2193698.3/77

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

Left Out: -5.147 ± 1.599 $\chi^2/\text{NDF}: 21.8/21$

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: -6.875 ± 1.149 $\chi^2/\text{NDF}: 45.2/41$

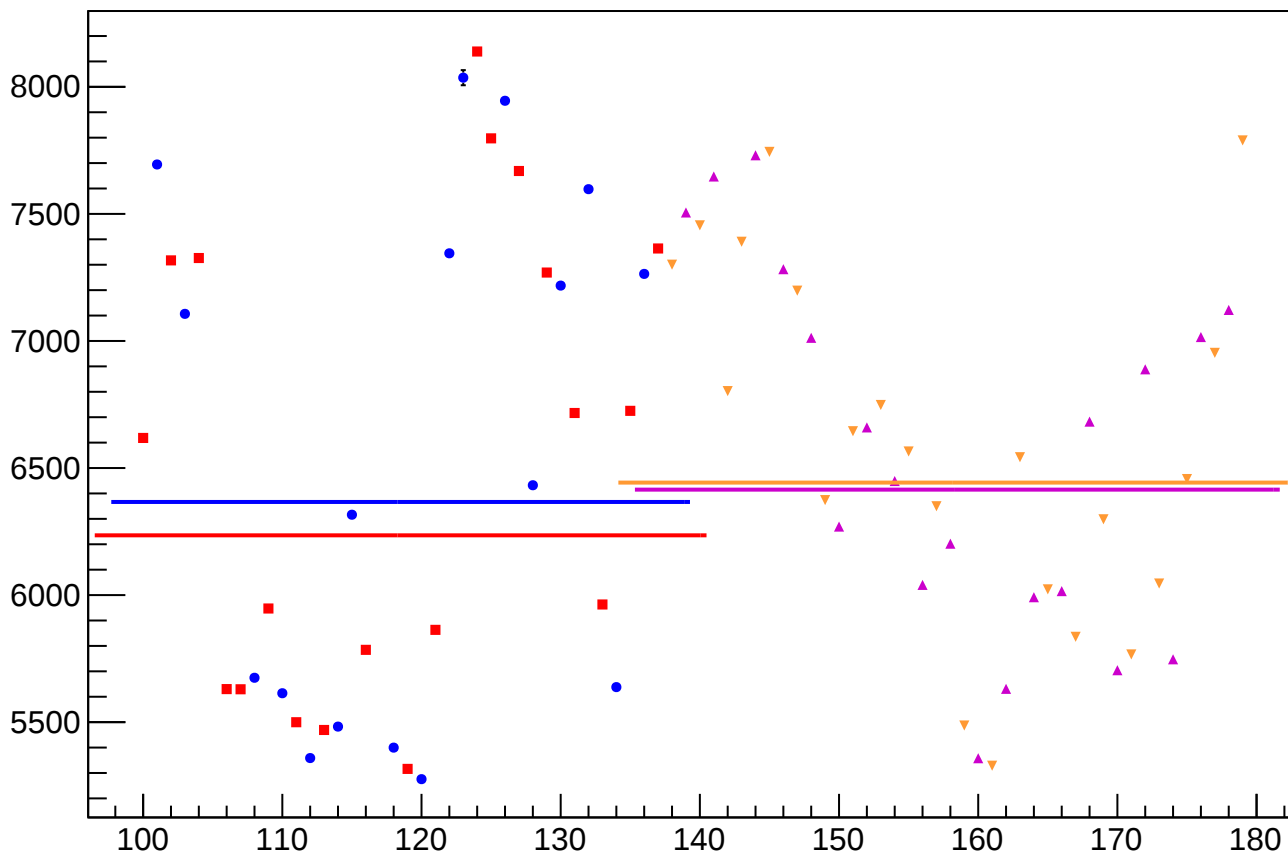
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

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

Out: -1.858 ± 1.323 $\chi^2/\text{NDF}: 63.3/40$

All: -1.663 ± 0.954 $\chi^2/\text{NDF}: 188.8/77$

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

Left Out: 6442.721+/-1.131 χ^2/NDF : 363594.2/21

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: 6429.302+/-0.812 χ^2/NDF : 710790.1/41

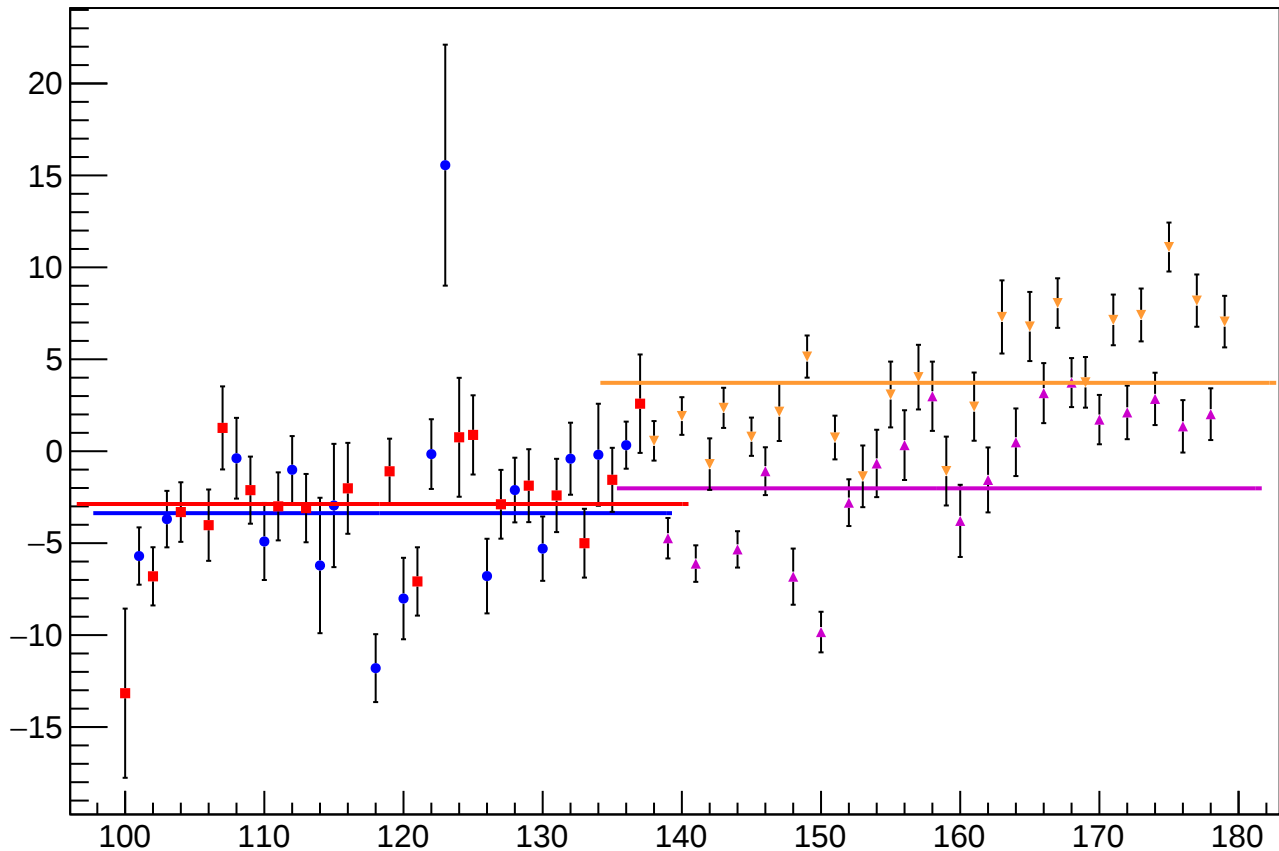
Right: 6297.369+/-1.209 χ^2/NDF : 532637.5/35

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

Out: 6377.325+/-0.936 χ^2/NDF : 617415.3/40

All: 6388.283+/-0.674 χ^2/NDF : 1251628.1/77

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.368 $\pm$ 0.476 χ^2/NDF : 59.9/16

Left Out: 3.719 $\pm$ 0.292 χ^2/NDF :131.6/21

Right Out: -2.871 $\pm$ 0.456 χ^2/NDF : 32.0/18

Left In: -2.018 $\pm$ 0.308 χ^2/NDF :177.1/19

Left: 1.006 $\pm$ 0.212 χ^2/NDF : 491.0/41

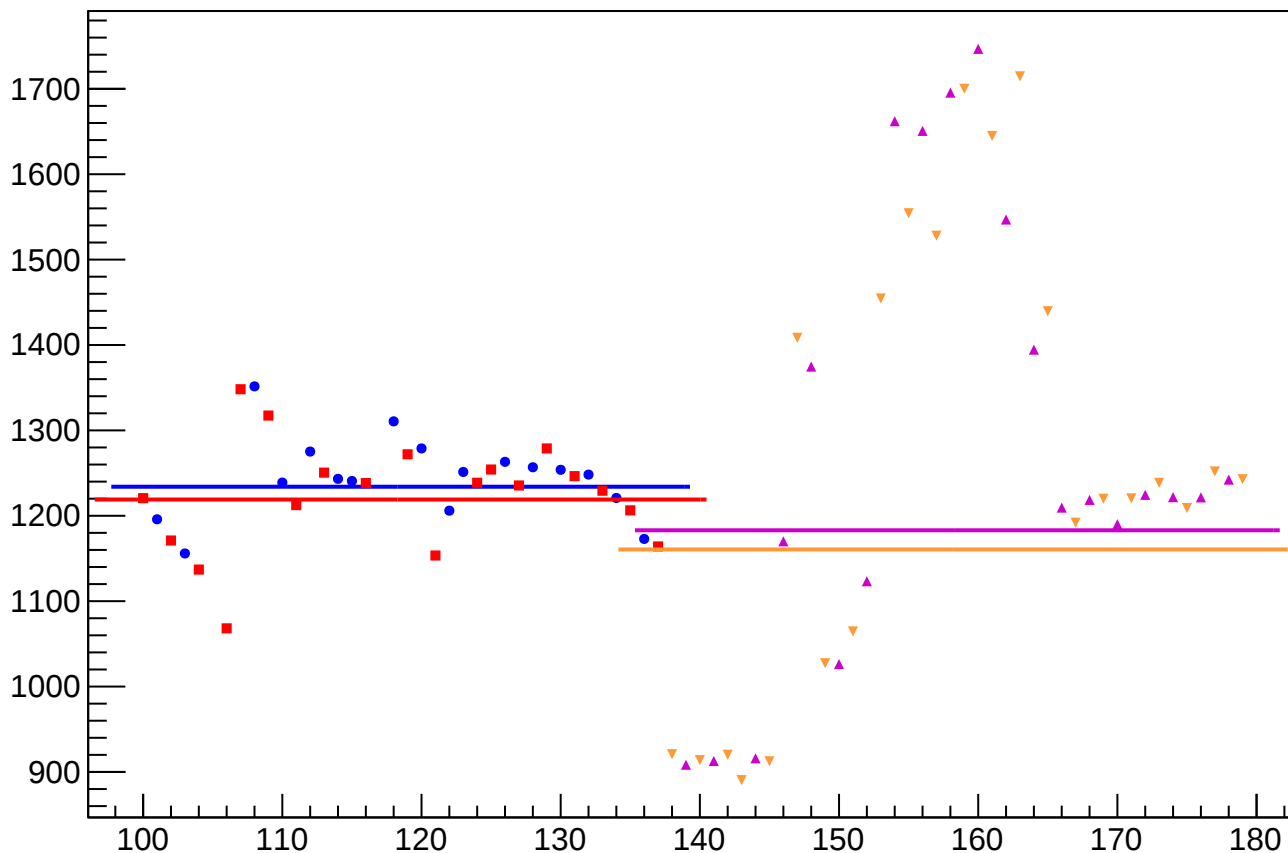
Right: -3.109 $\pm$ 0.329 χ^2/NDF : 92.5/35

In: -2.418 $\pm$ 0.259 χ^2/NDF :242.6/36

Out: 1.803 $\pm$ 0.246 χ^2/NDF :311.6/40

All: -0.201 $\pm$ 0.178 χ^2/NDF : 693.9/77

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1234.032 ± 0.336 χ^2/NDF : 23565.3/16

Left Out: 1160.550 ± 0.207 χ^2/NDF : 1378520.5/21

Right Out: 1219.041 ± 0.323 χ^2/NDF : 40370.4/18

Left In: 1183.025 ± 0.218 χ^2/NDF : 1187575.3/19

Left: 1171.179 ± 0.150 χ^2/NDF : 2571690.8/41

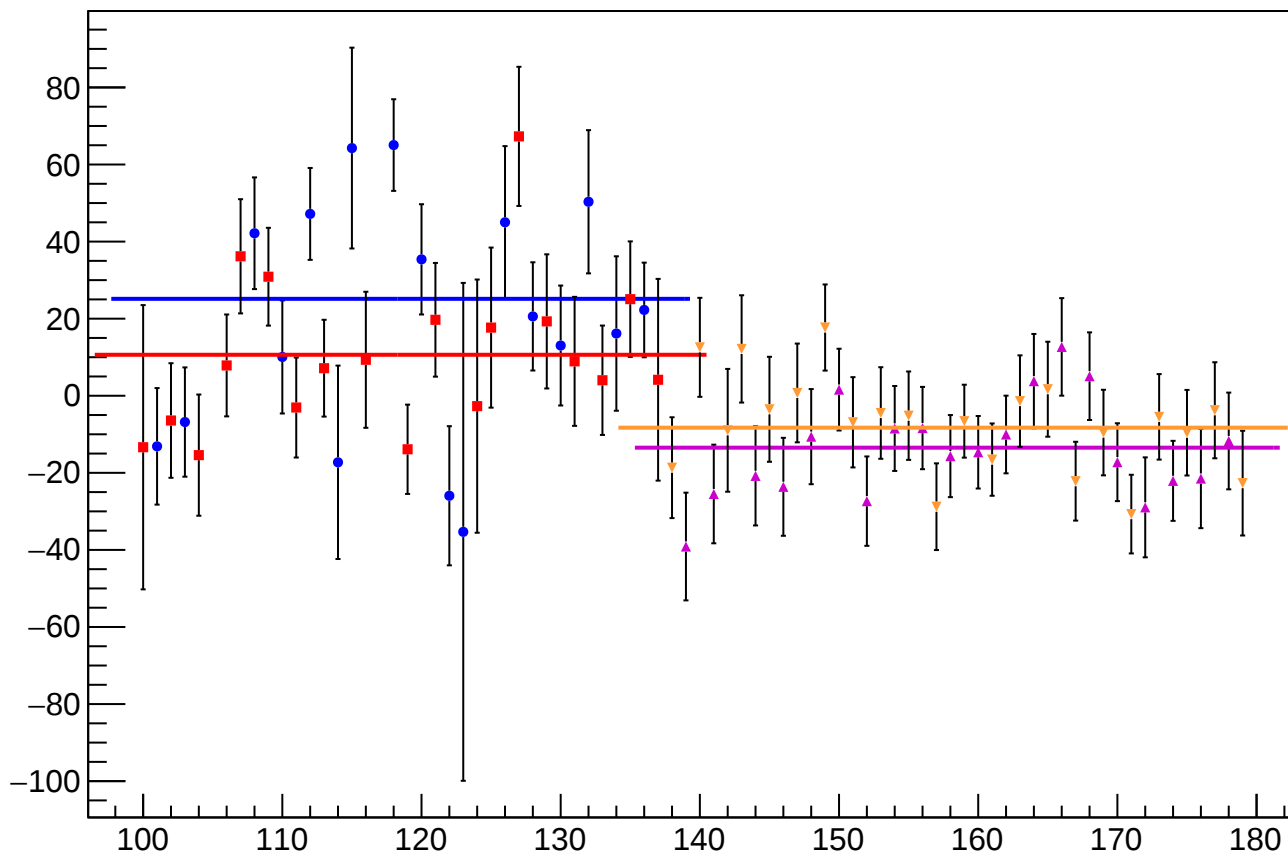
Right: 1226.229 ± 0.233 χ^2/NDF : 64970.2/35

In: 1198.133 ± 0.183 χ^2/NDF : 1227336.1/36

Out: 1177.556 ± 0.174 χ^2/NDF : 1442188.8/40

All: 1187.327 ± 0.126 χ^2/NDF : 2676164.3/77

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.149+/-3.837 χ^2/NDF : 46.9/16

Left Out: -8.283+/-2.485 χ^2/NDF : 24.8/21

Right Out: 10.634+/-3.595 χ^2/NDF : 27.7/18

Left In: -13.472+/-2.570 χ^2/NDF : 20.9/19

Left: -10.790+/-1.786 χ^2/NDF : 47.8/41

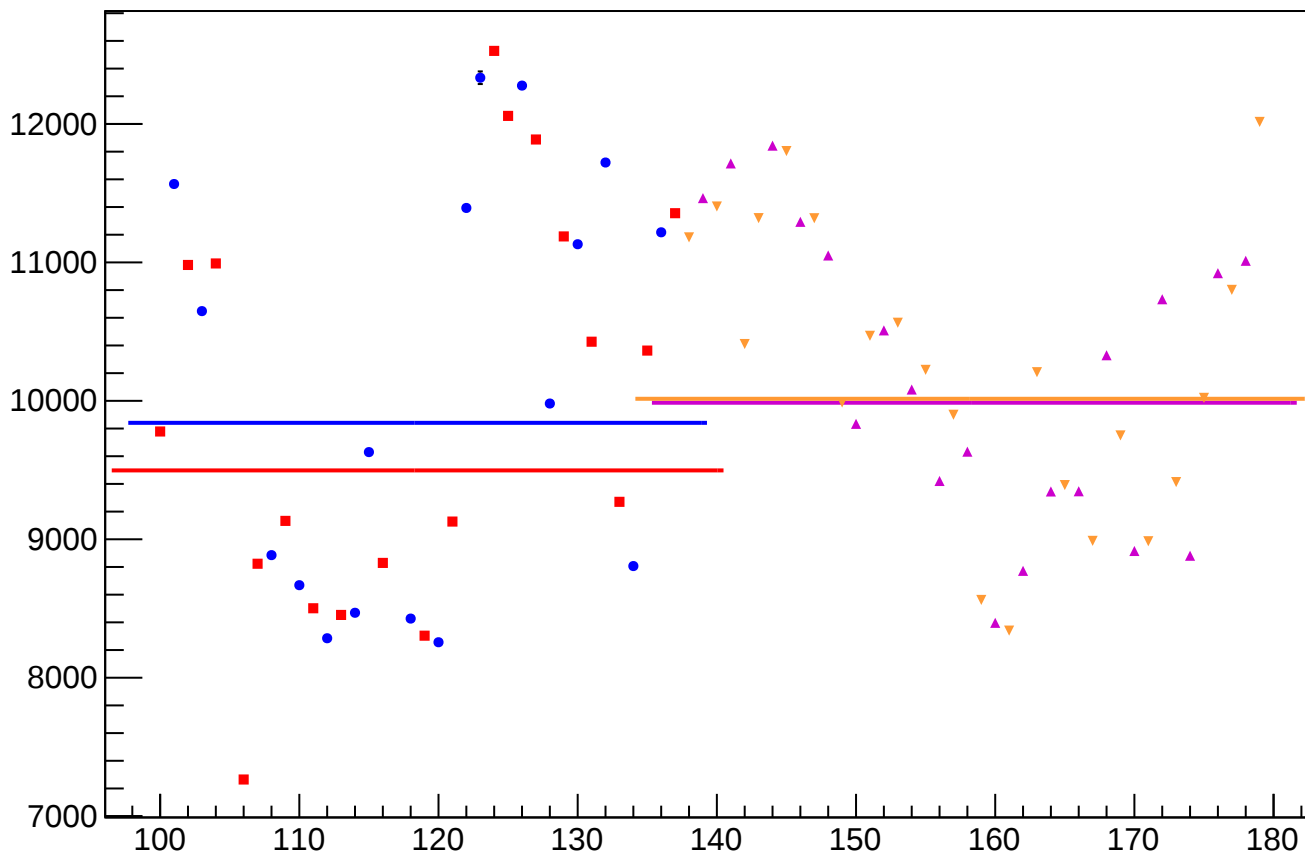
Right: 17.418+/-2.623 χ^2/NDF : 82.3/35

In: -1.512+/-2.135 χ^2/NDF : 137.8/36

Out: -2.167+/-2.044 χ^2/NDF : 71.2/40

All: -1.854+/-1.477 χ^2/NDF : 209.0/77

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10014.896 $\pm$ 1.757 χ^2/NDF : 336876.3/21

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: 10001.094 $\pm$ 1.263 χ^2/NDF : 660278.9/41

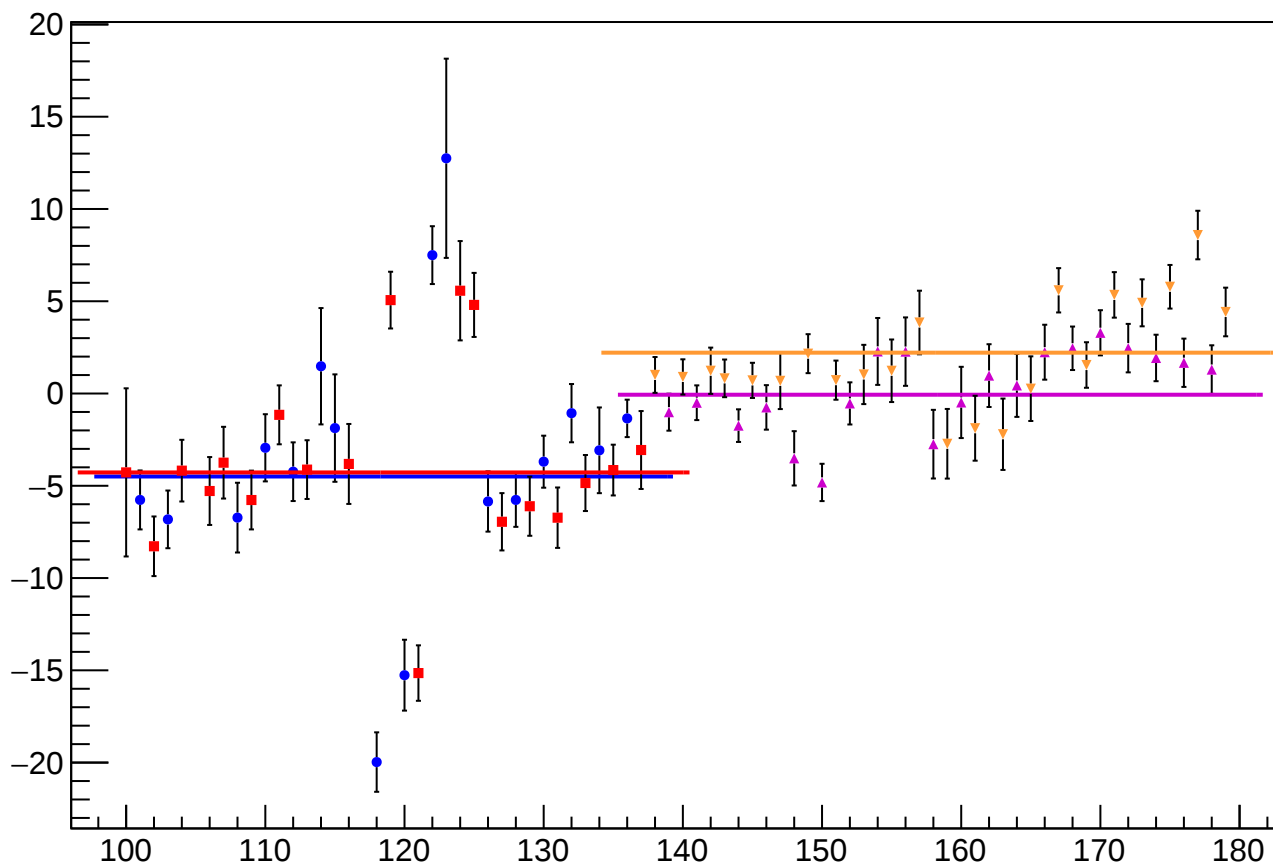
Right: 9658.117 $\pm$ 1.855 χ^2/NDF : 545307.6/35

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

Out: 9847.607 $\pm$ 1.445 χ^2/NDF : 641616.1/40

All: 9892.440 $\pm$ 1.044 χ^2/NDF : 1228941.2/77

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

Left Out: 2.213 ± 0.269 χ^2/NDF : 86.4/21

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: 1.138 ± 0.195 χ^2/NDF : 182.5/41

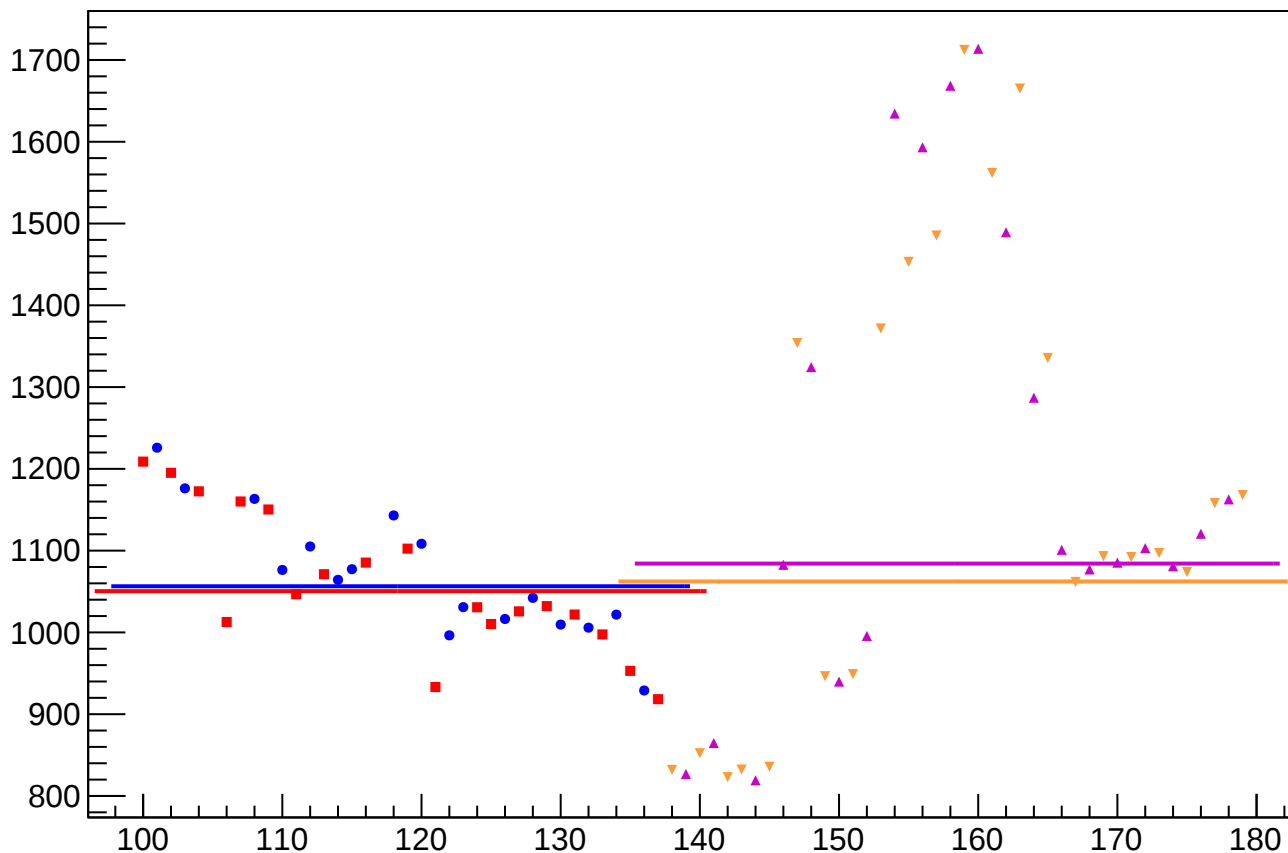
Right: -4.383 ± 0.283 χ^2/NDF : 366.8/35

In: -1.515 ± 0.233 χ^2/NDF : 359.8/36

Out: 0.151 ± 0.222 χ^2/NDF : 419.9/40

All: -0.641 ± 0.161 χ^2/NDF : 806.4/77

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1062.318 $\pm$ 0.190 χ^2 /NDF:1586817.1/21

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

Left In: 1084.158 $\pm$ 0.201 χ^2 /NDF:1422600.7/19

Left: 1072.620 $\pm$ 0.138 χ^2 /NDF: 3015642.7/41

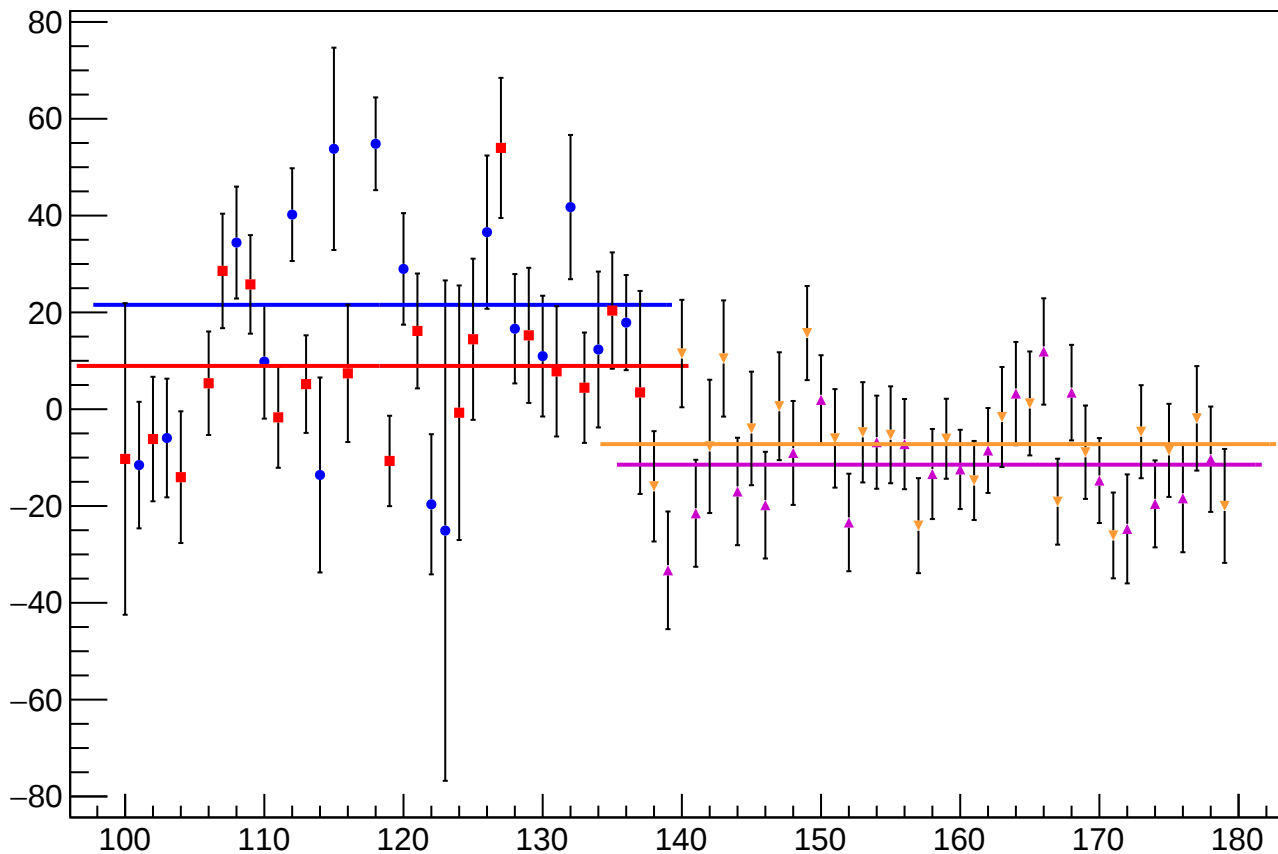
Right: 1053.333 $\pm$ 0.200 χ^2 /NDF: 173392.8/35

In: 1075.092 $\pm$ 0.165 χ^2 /NDF:1519582.5/36

Out: 1058.544 $\pm$ 0.157 χ^2 /NDF:1670453.6/40

All: 1066.406 $\pm$ 0.114 χ^2 /NDF: 3195312.1/77

diff_bpm0l08X_mean vs Slug, Sign Corrected



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

Left Out: -7.214 $\pm$ 2.159 χ^2 /NDF:24.4/21

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

Left In: -11.463 $\pm$ 2.234 χ^2 /NDF:20.5/19

Left: -9.266 $\pm$ 1.552 χ^2 /NDF: 46.8/41

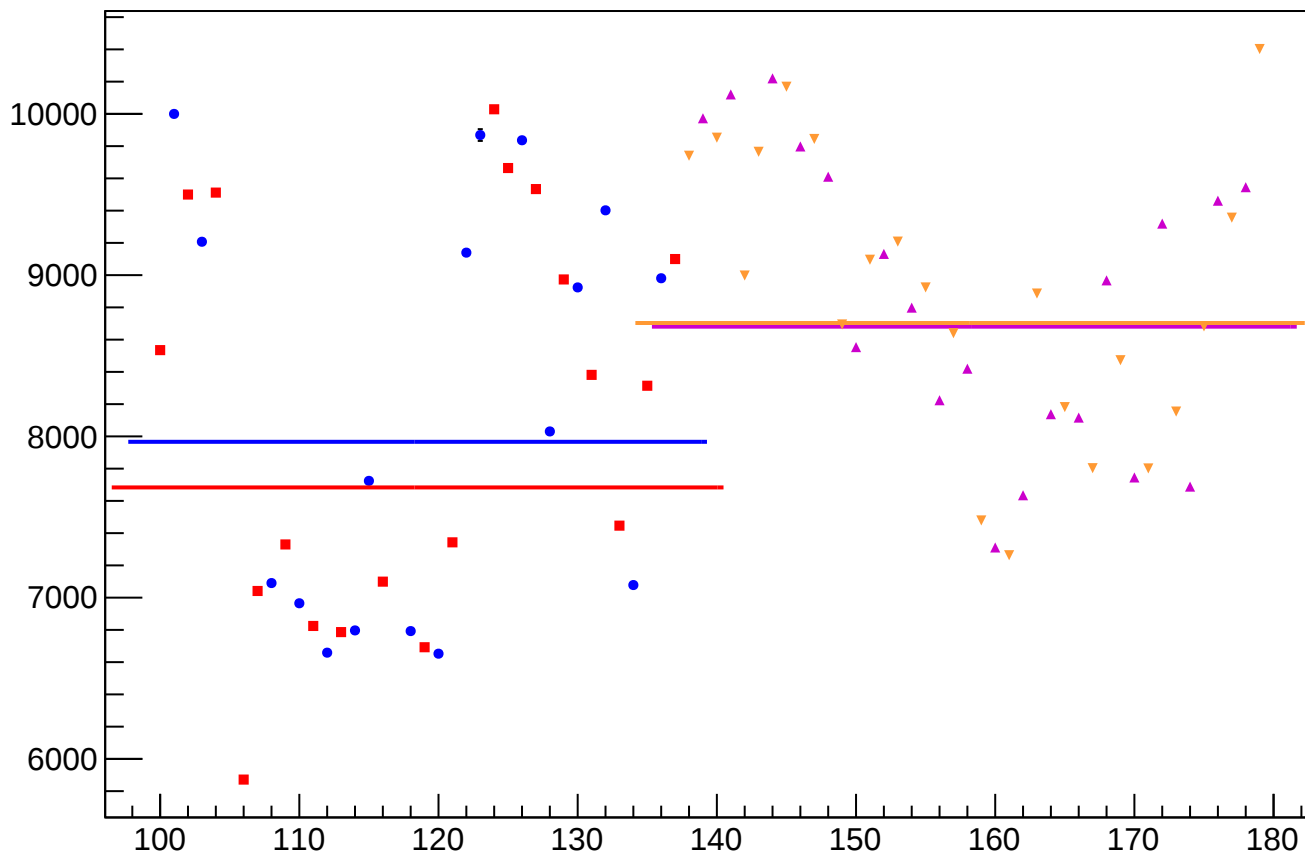
Right: 14.837 $\pm$ 2.126 χ^2 /NDF: 84.6/35

In: -0.227 $\pm$ 1.814 χ^2 /NDF:143.3/36

Out: -1.483 $\pm$ 1.734 χ^2 /NDF:71.7/40

All: -0.883 $\pm$ 1.254 χ^2 /NDF: 215.2/77

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

Left Out: 8703.194 $\pm$ 1.527 χ^2/NDF : 325004.6/21

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: 8692.244 $\pm$ 1.098 χ^2/NDF : 639250.6/41

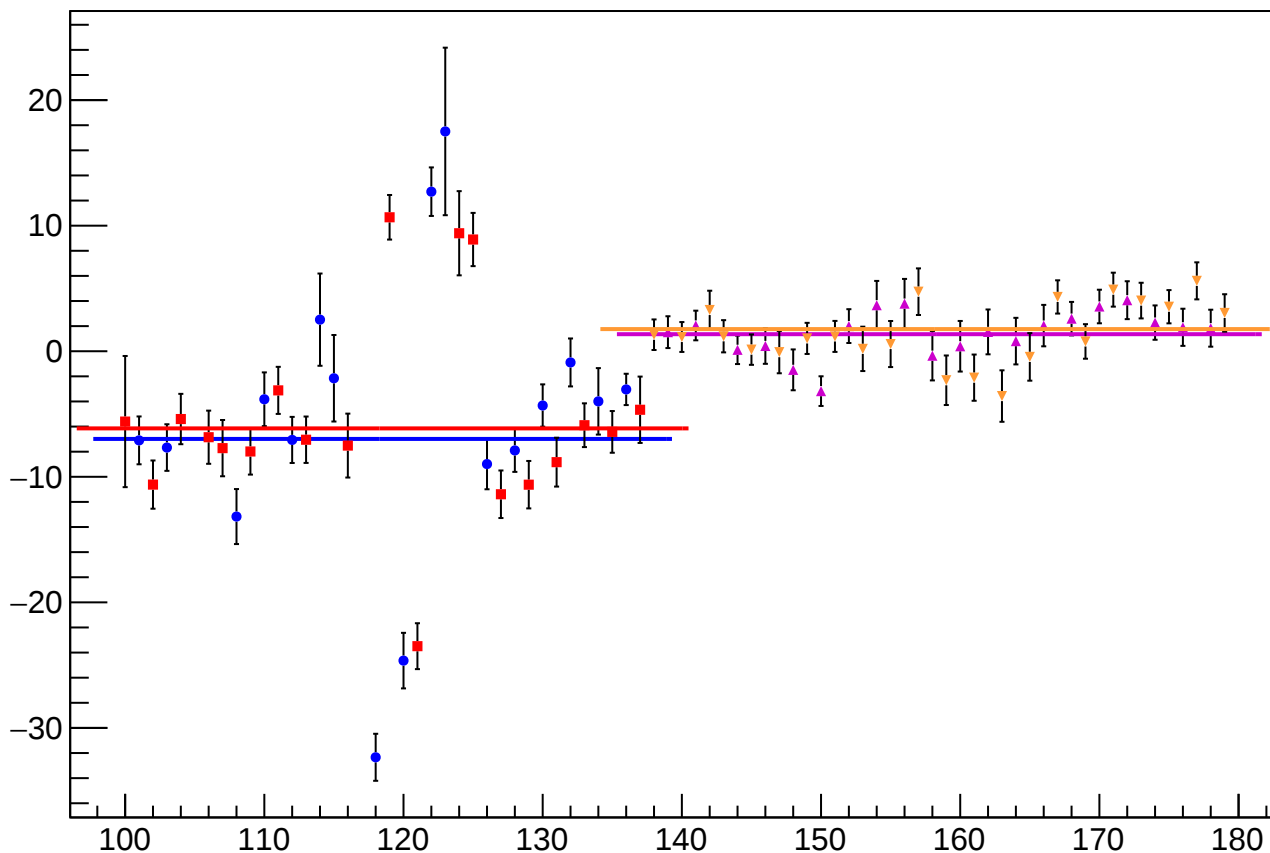
Right: 7815.627 $\pm$ 1.503 χ^2/NDF : 620463.8/35

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

Out: 8341.504 $\pm$ 1.226 χ^2/NDF : 798311.8/40

All: 8387.365 $\pm$ 0.886 χ^2/NDF : 1481548.9/77

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 1.764 ± 0.311 χ^2/NDF : 47.3/21

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: 1.572 ± 0.226 χ^2/NDF : 79.9/41

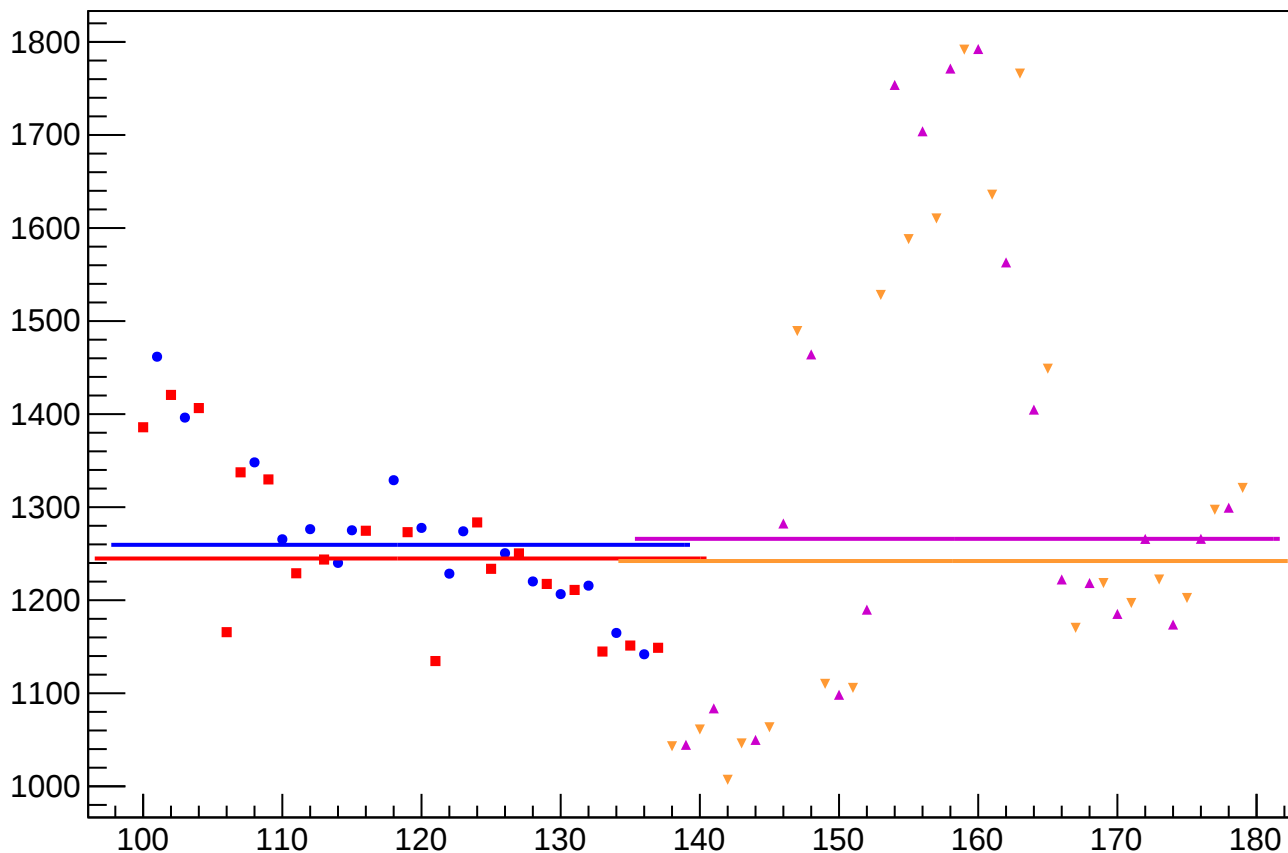
Right: -6.547 ± 0.337 χ^2/NDF : 687.6/35

In: -1.256 ± 0.272 χ^2/NDF : 642.4/36

Out: -0.666 ± 0.259 χ^2/NDF : 523.8/40

All: -0.946 ± 0.187 χ^2/NDF : 1168.7/77

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1242.128 $\pm$ 0.220 χ^2/NDF : 949775.2/21

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

Left In: 1265.957 $\pm$ 0.232 χ^2/NDF : 840532.0/19

Left: 1253.388 $\pm$ 0.160 χ^2/NDF : 1795862.7/41

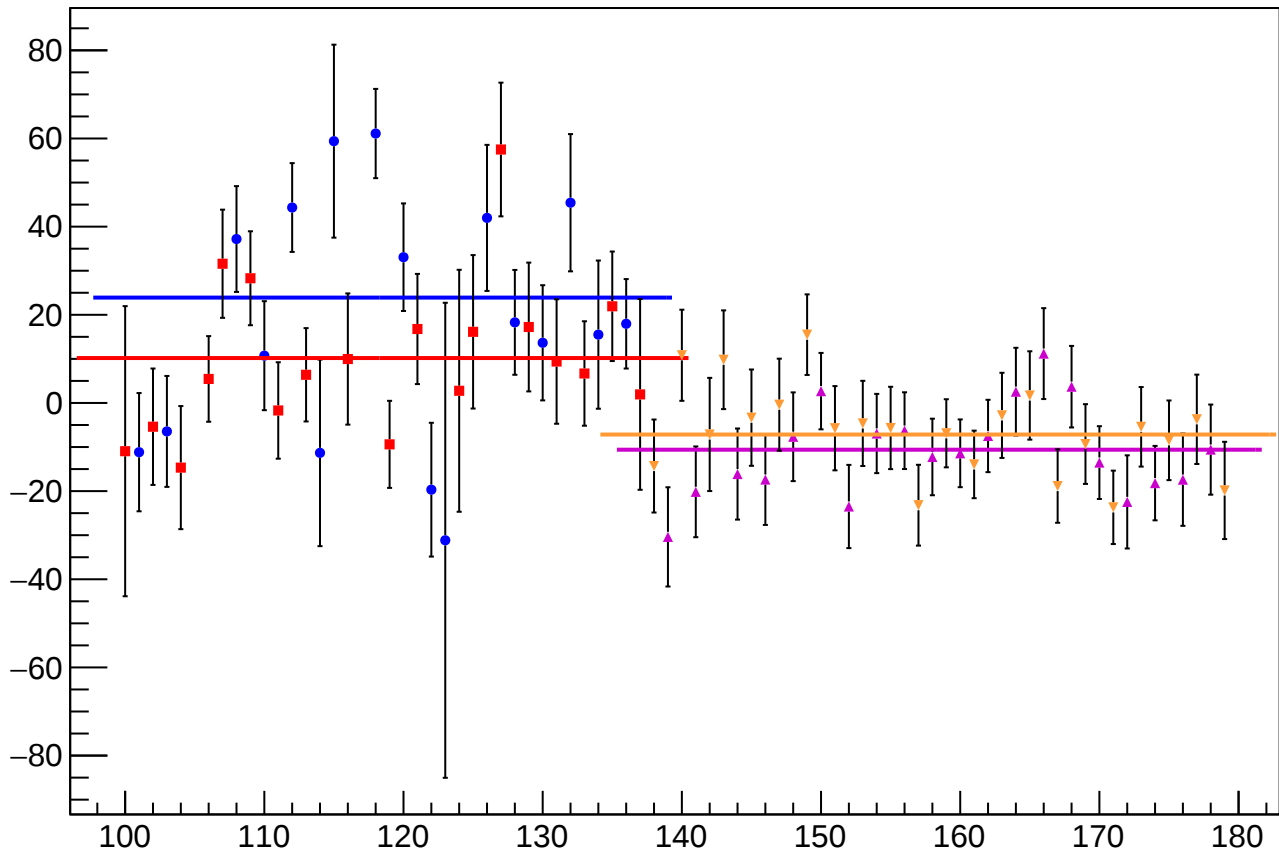
Right: 1251.883 $\pm$ 0.238 χ^2/NDF : 132621.3/35

In: 1263.944 $\pm$ 0.192 χ^2/NDF : 905616.4/36

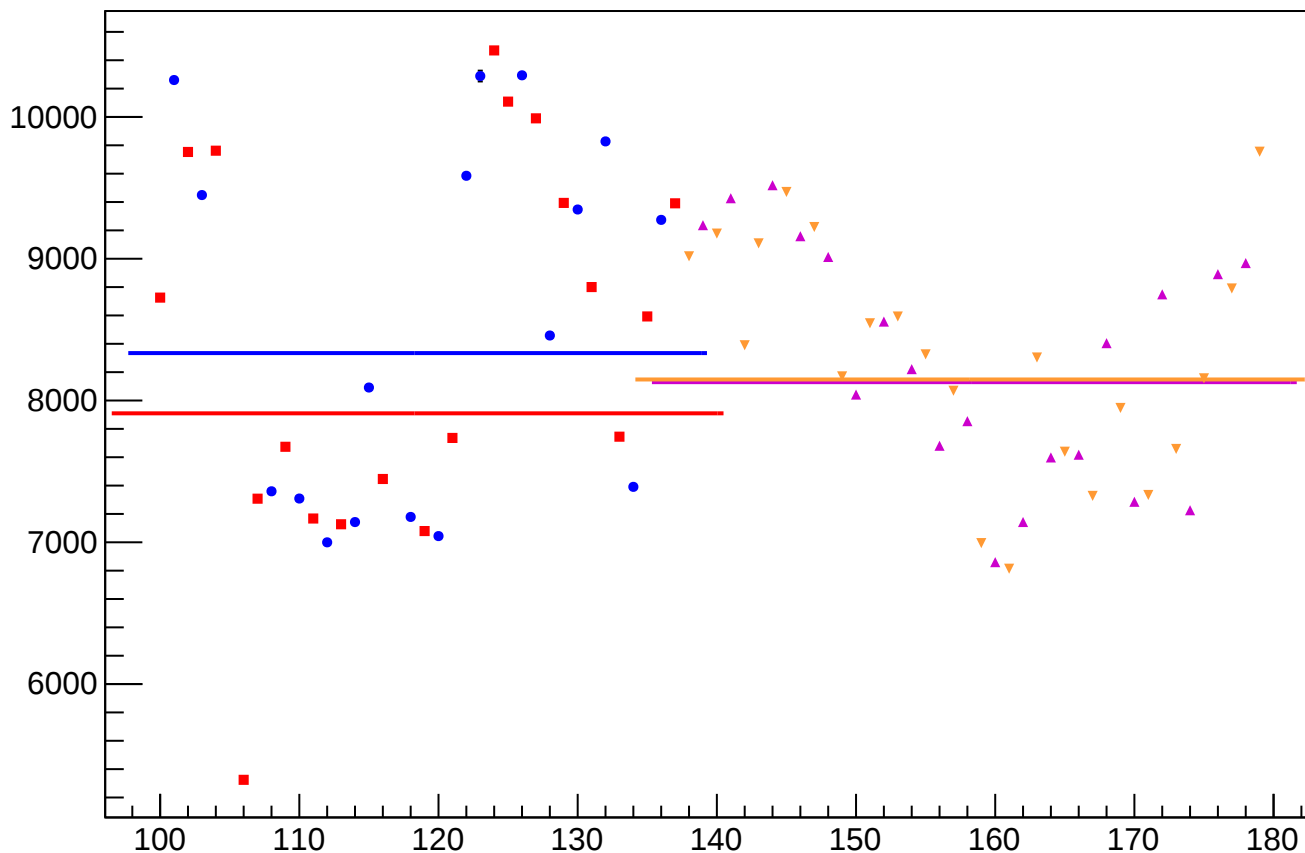
Out: 1242.961 $\pm$ 0.183 χ^2/NDF : 1016647.9/40

All: 1252.921 $\pm$ 0.133 χ^2/NDF : 1928511.6/77

diff_bpm0l09X_mean vs Slug, Sign Corrected



diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8148.359 $\pm$ 1.429 χ^2/NDF : 314697.0/21

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: 8139.268 $\pm$ 1.028 χ^2/NDF : 619832.6/41

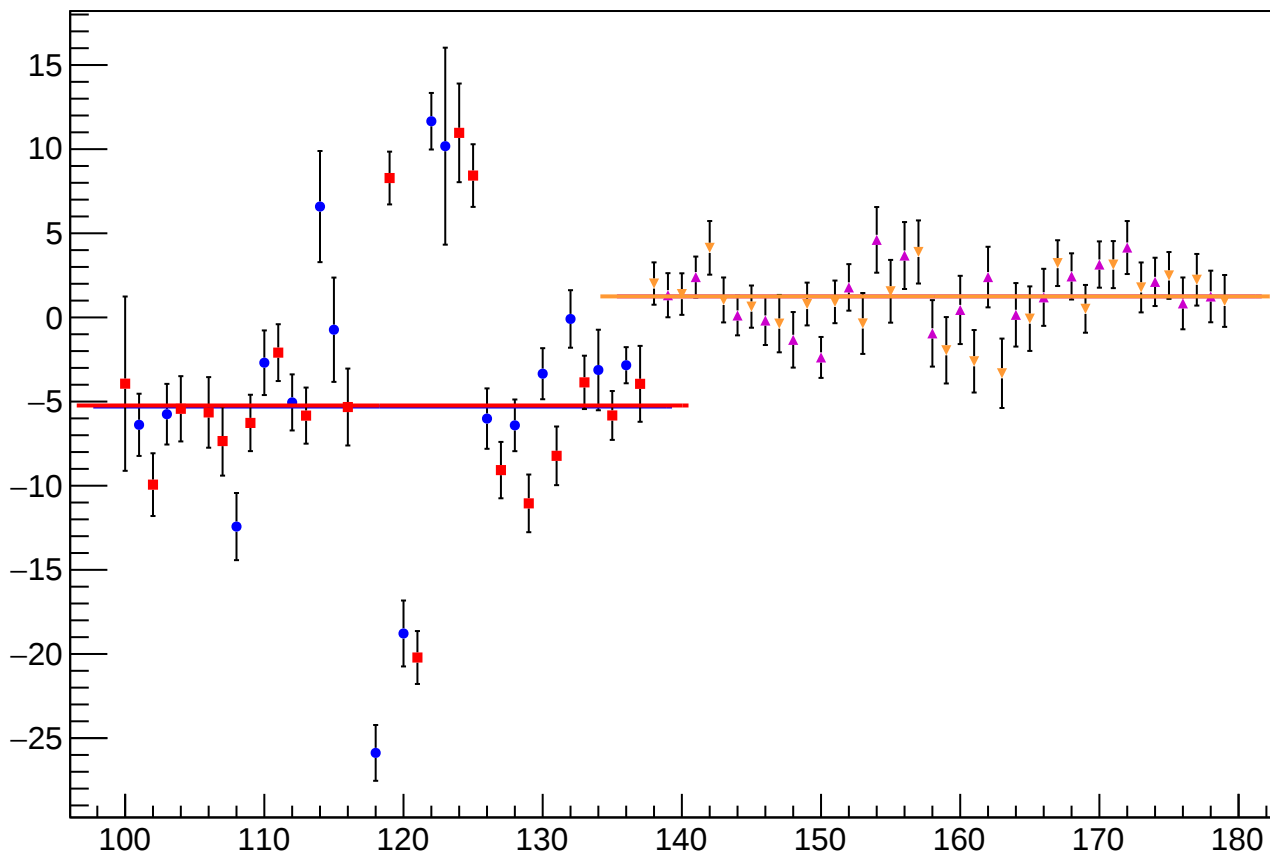
Right: 8105.450 $\pm$ 1.560 χ^2/NDF : 681543.4/35

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

Out: 8074.037 $\pm$ 1.186 χ^2/NDF : 714206.8/40

All: 8129.039 $\pm$ 0.858 χ^2/NDF : 1301703.7/77

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

Left Out: 1.250 ± 0.320 χ^2/NDF : 25.7/21

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: 1.251 ± 0.232 χ^2/NDF : 53.1/41

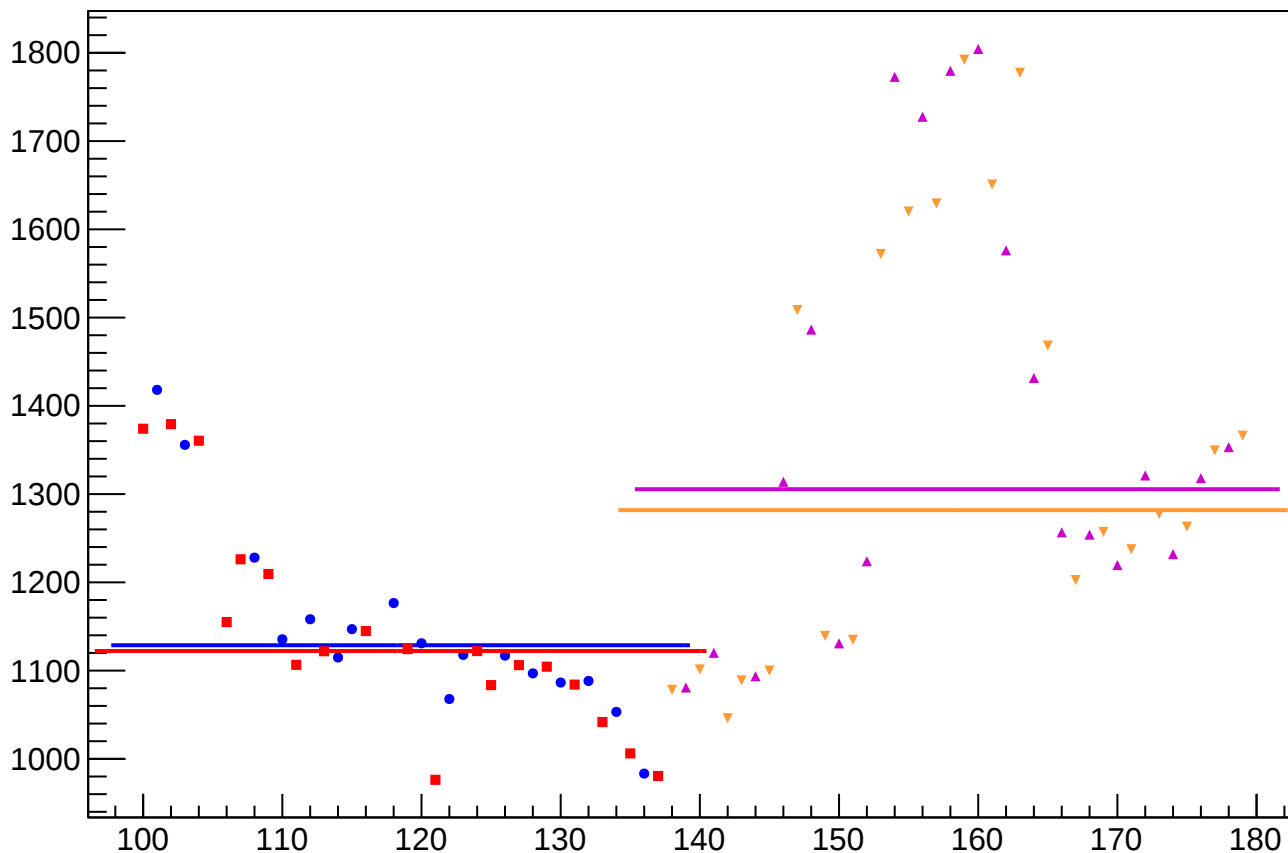
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -1.199 ± 0.267 χ^2/NDF : 526.0/36

Out: -1.121 ± 0.255 χ^2/NDF : 457.6/40

All: -1.158 ± 0.184 χ^2/NDF : 983.6/77

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1281.805 $\pm$ 0.226 χ^2 /NDF: 862857.1/21

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: 1293.024 $\pm$ 0.164 χ^2 /NDF: 1624539.6/41

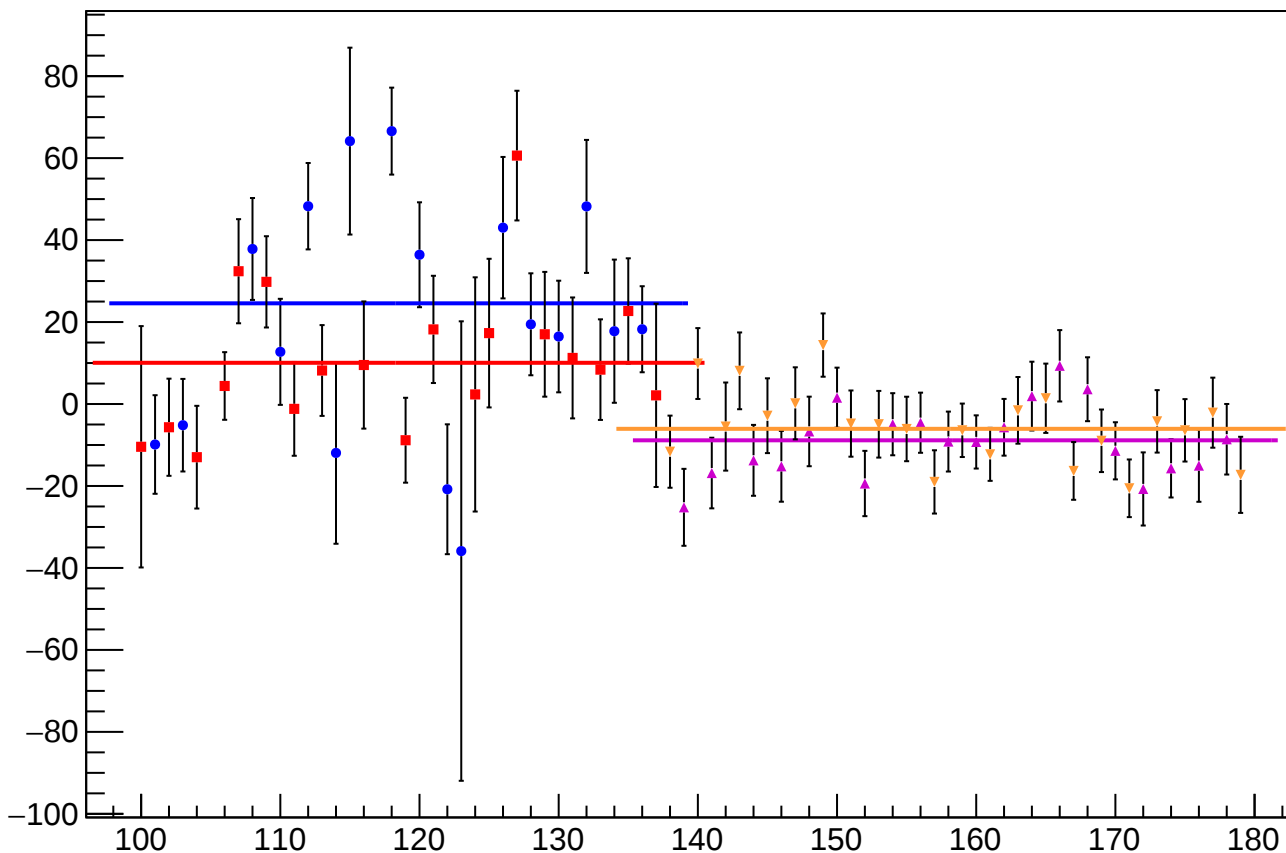
Right: 1125.374 $\pm$ 0.215 χ^2 /NDF: 262927.9/35

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

Out: 1223.466 $\pm$ 0.180 χ^2 /NDF: 1174162.1/40

All: 1231.027 $\pm$ 0.130 χ^2 /NDF: 2272360.6/77

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.569 $\pm$ 3.318 χ^2 /NDF: 58.1/16

Left Out: -6.053 $\pm$ 1.702 χ^2 /NDF:26.9/21

Right Out: 10.057 $\pm$ 3.008 χ^2 /NDF: 28.8/18

Left In: -8.858 $\pm$ 1.762 χ^2 /NDF:21.3/19

Left: -7.407 $\pm$ 1.224 χ^2 /NDF: 49.5/41

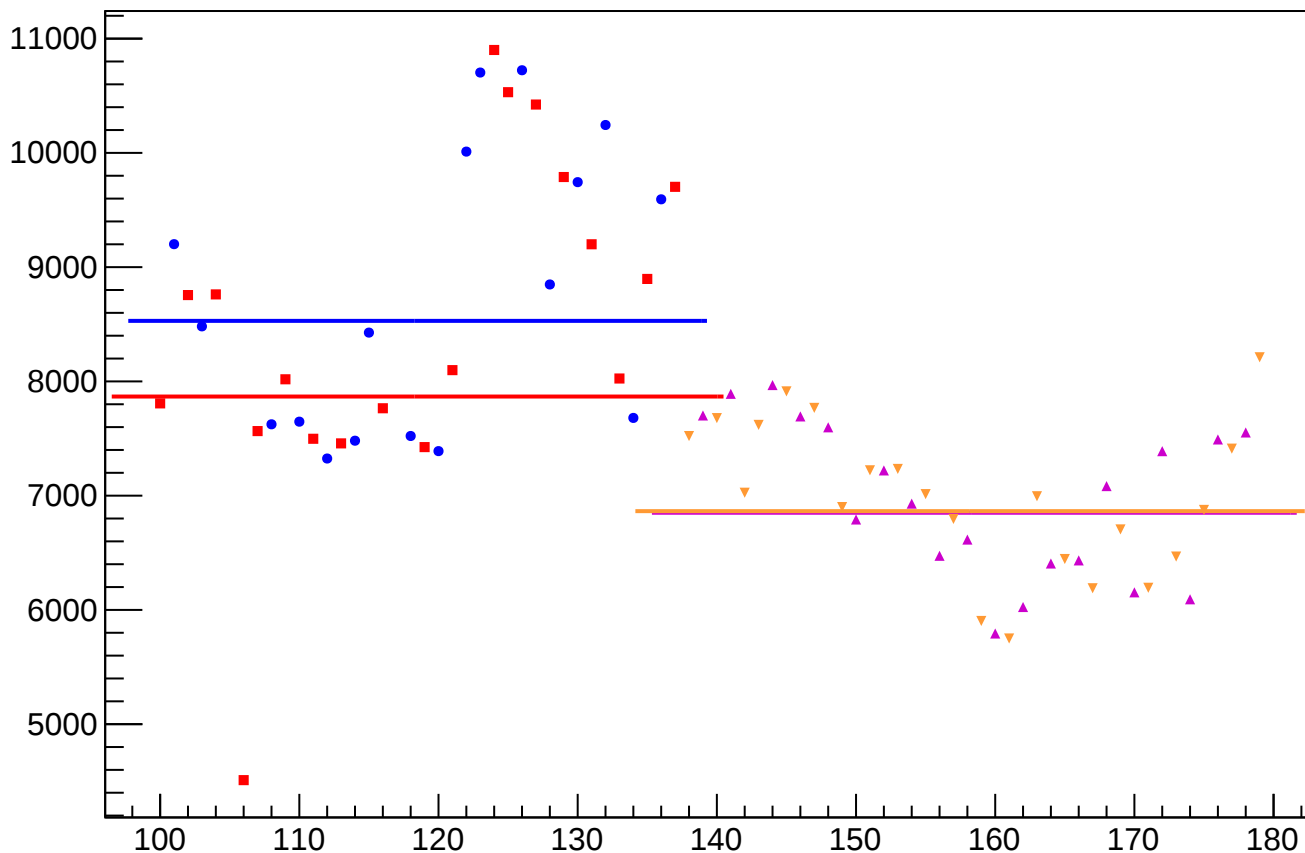
Right: 16.602 $\pm$ 2.229 χ^2 /NDF: 97.4/35

In: -1.508 $\pm$ 1.556 χ^2 /NDF:158.6/36

Out: -2.146 $\pm$ 1.481 χ^2 /NDF:77.4/40

All: -1.843 $\pm$ 1.073 χ^2 /NDF: 236.0/77

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6864.400 +/- 1.203 χ^2/NDF : 300215.8/21

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

Left In: 6850.397 +/- 1.246 χ^2/NDF : 292804.0/19

Left: 6857.641 +/- 0.866 χ^2/NDF : 593085.2/41

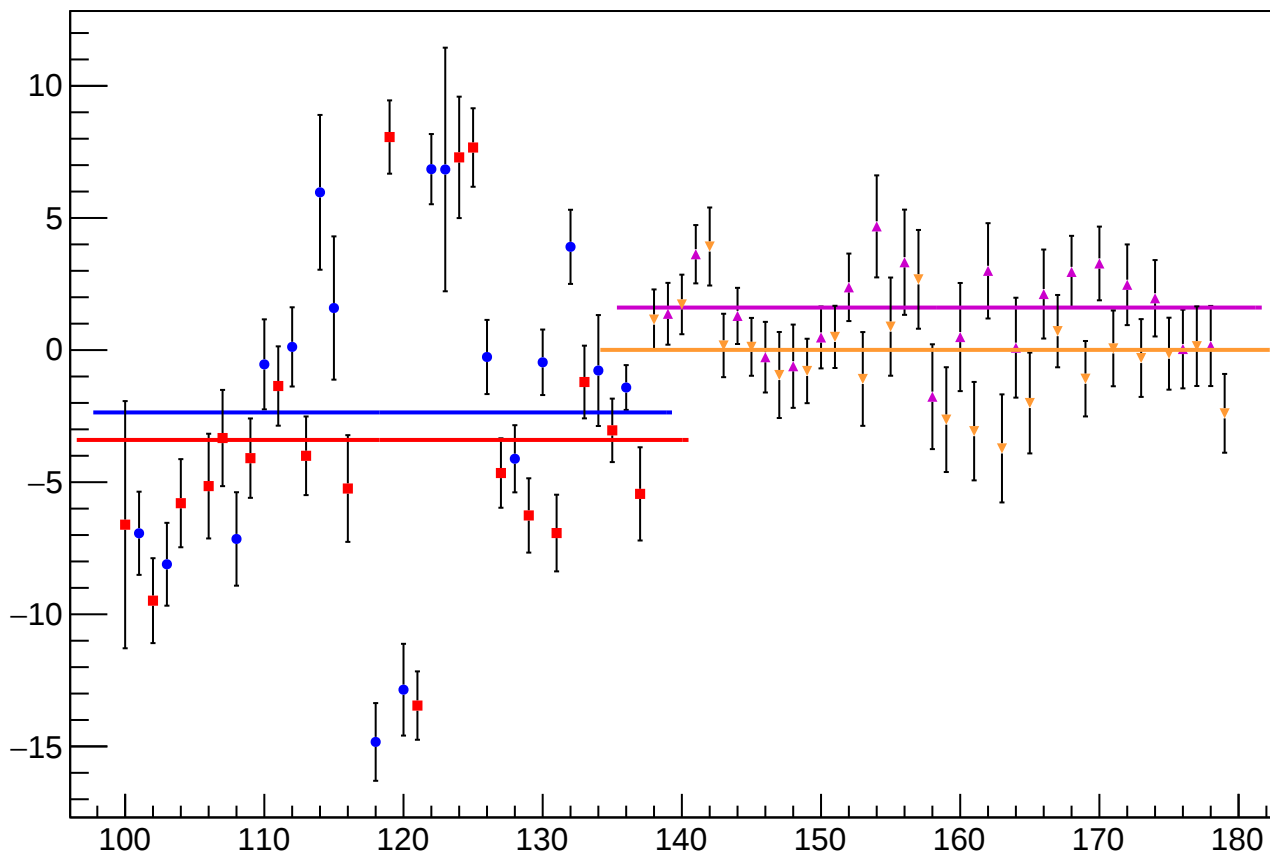
Right: 8166.253 +/- 1.576 χ^2/NDF : 807907.7/35

In: 7219.678 +/- 1.100 χ^2/NDF : 900771.7/36

Out: 7107.695 +/- 1.047 χ^2/NDF : 1024599.3/40

All: 7160.927 +/- 0.759 χ^2/NDF : 1930805.3/77

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.360 ± 0.366 $\chi^2/\text{NDF}: 232.0/16$

Left Out: 0.007 ± 0.306 $\chi^2/\text{NDF}: 26.4/21$

Right Out: -3.401 ± 0.358 $\chi^2/\text{NDF}: 241.4/18$

Left In: 1.609 ± 0.324 $\chi^2/\text{NDF}: 21.3/19$

Left: 0.764 ± 0.222 $\chi^2/\text{NDF}: 60.7/41$

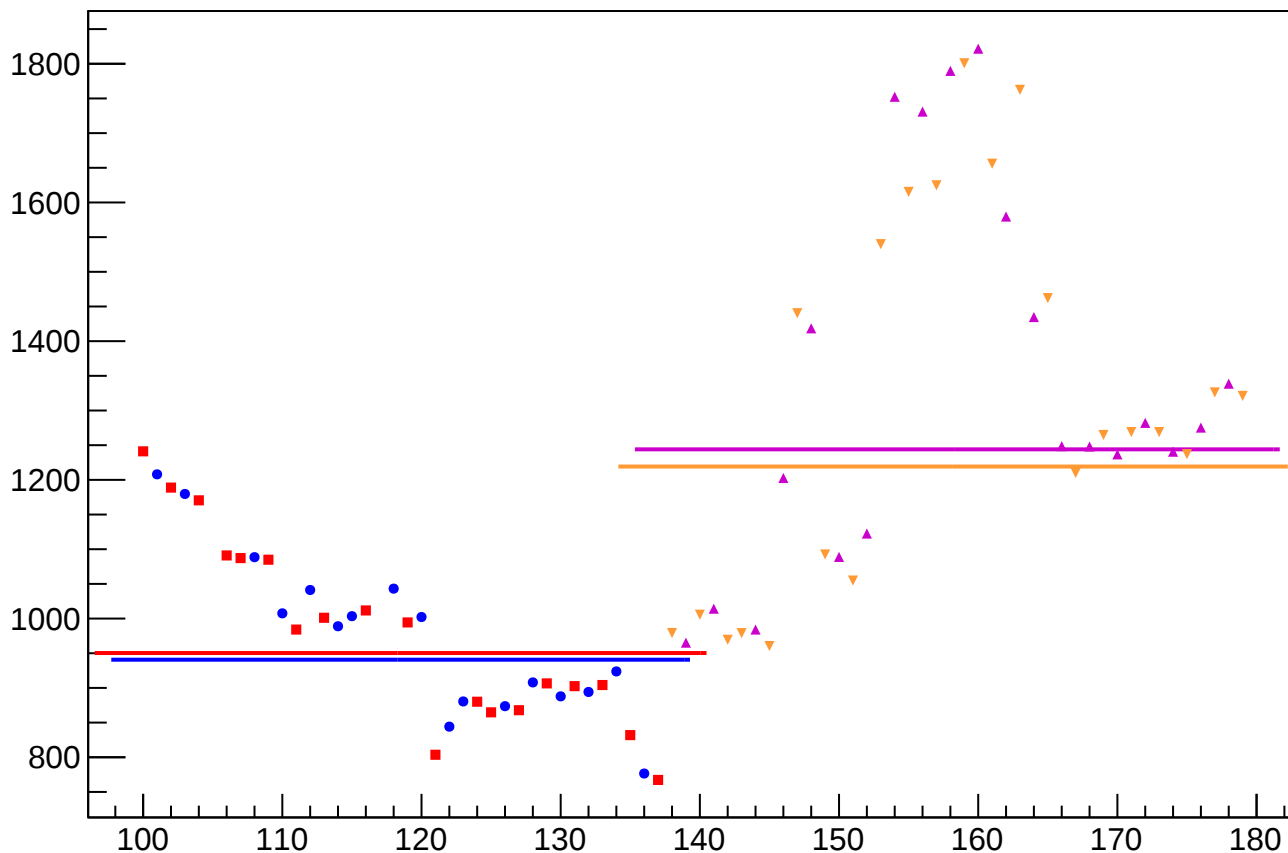
Right: -2.891 ± 0.256 $\chi^2/\text{NDF}: 477.6/35$

In: -0.136 ± 0.242 $\chi^2/\text{NDF}: 319.4/36$

Out: -1.432 ± 0.233 $\chi^2/\text{NDF}: 320.2/40$

All: -0.810 ± 0.168 $\chi^2/\text{NDF}: 654.4/77$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

Left Out: 1219.228 $\pm$ 0.217 χ^2 /NDF:1239173.3/21

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

Left In: 1244.000 $\pm$ 0.229 χ^2 /NDF:1068192.7/19

Left: 1230.924 $\pm$ 0.157 χ^2 /NDF: 2313545.4/41

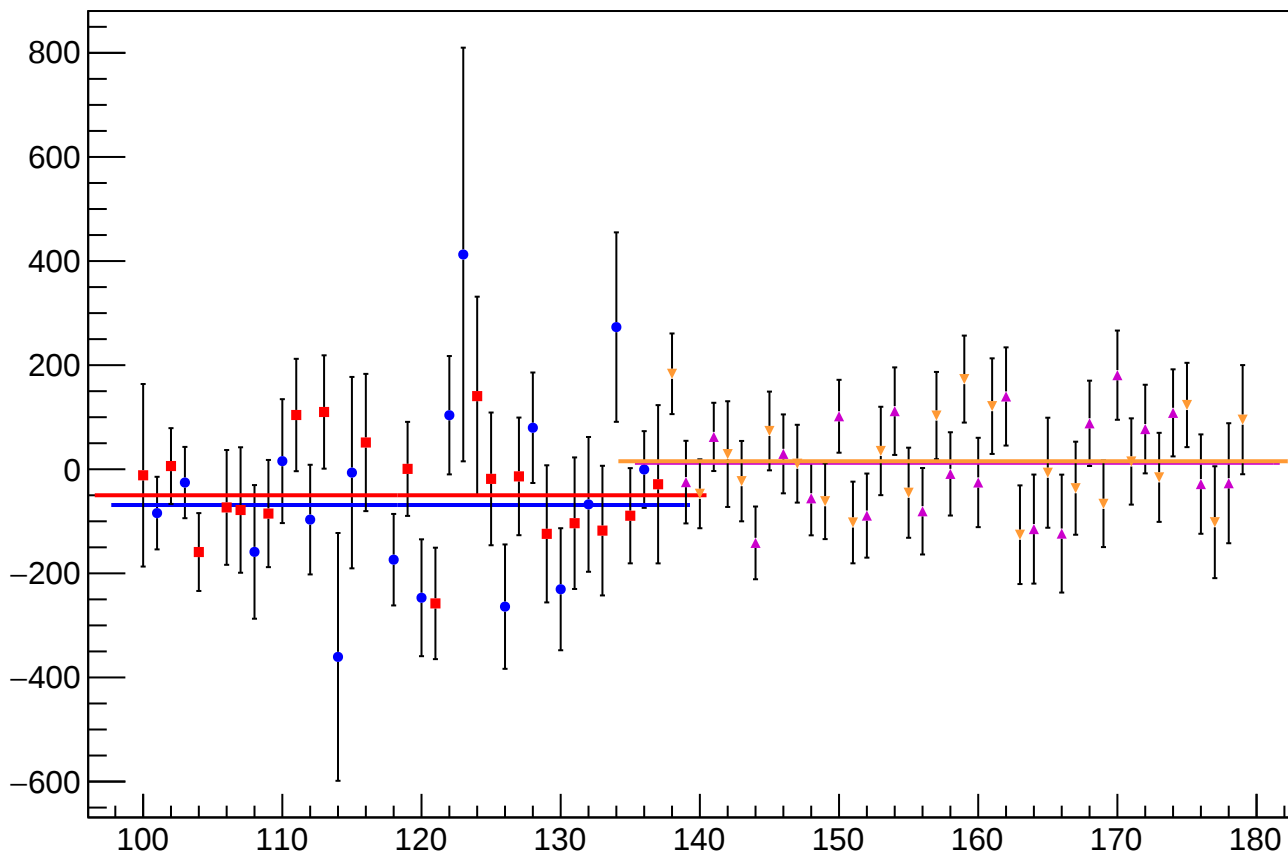
Right: 945.597 $\pm$ 0.181 χ^2 /NDF: 463155.1/35

In: 1110.649 $\pm$ 0.171 χ^2 /NDF:2081573.1/36

Out: 1105.678 $\pm$ 0.165 χ^2 /NDF:2111094.6/40

All: 1108.063 $\pm$ 0.119 χ^2 /NDF: 4193105.3/77

diff_bpm0r03X_mean vs Slug, Sign Corrected



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

Left Out: 15.392 $\pm$ 17.893 χ^2/NDF : 23.6/21

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

Left In: 12.412 $\pm$ 18.458 χ^2/NDF : 24.4/19

Left: 13.948 $\pm$ 12.847 χ^2/NDF : 48.0/41

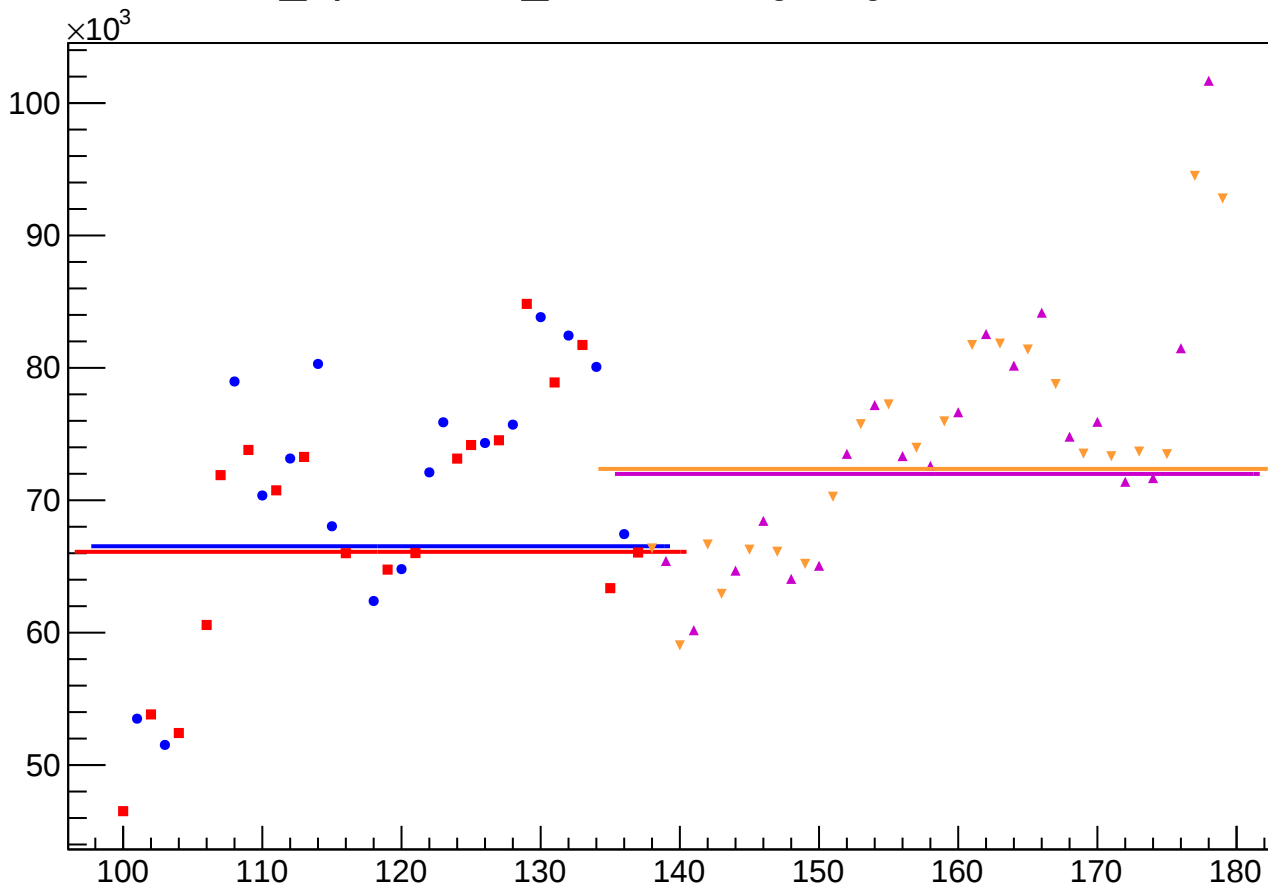
Right: -58.983 $\pm$ 18.010 χ^2/NDF : 36.0/35

In: -14.840 $\pm$ 15.040 χ^2/NDF : 52.6/36

Out: -6.721 $\pm$ 14.554 χ^2/NDF : 42.1/40

All: -10.647 $\pm$ 10.459 χ^2/NDF : 94.9/77

diff_bpm0r03X_rms vs Slug, Sign Corrected



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

Left Out: 72368.945+/-12.652 χ^2/NDF : 418801.9/21

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

Left In: 71988.301+/-13.052 χ^2/NDF : 383674.2/19

Left: 72184.534+/-9.084 χ^2/NDF : 802914.6/41

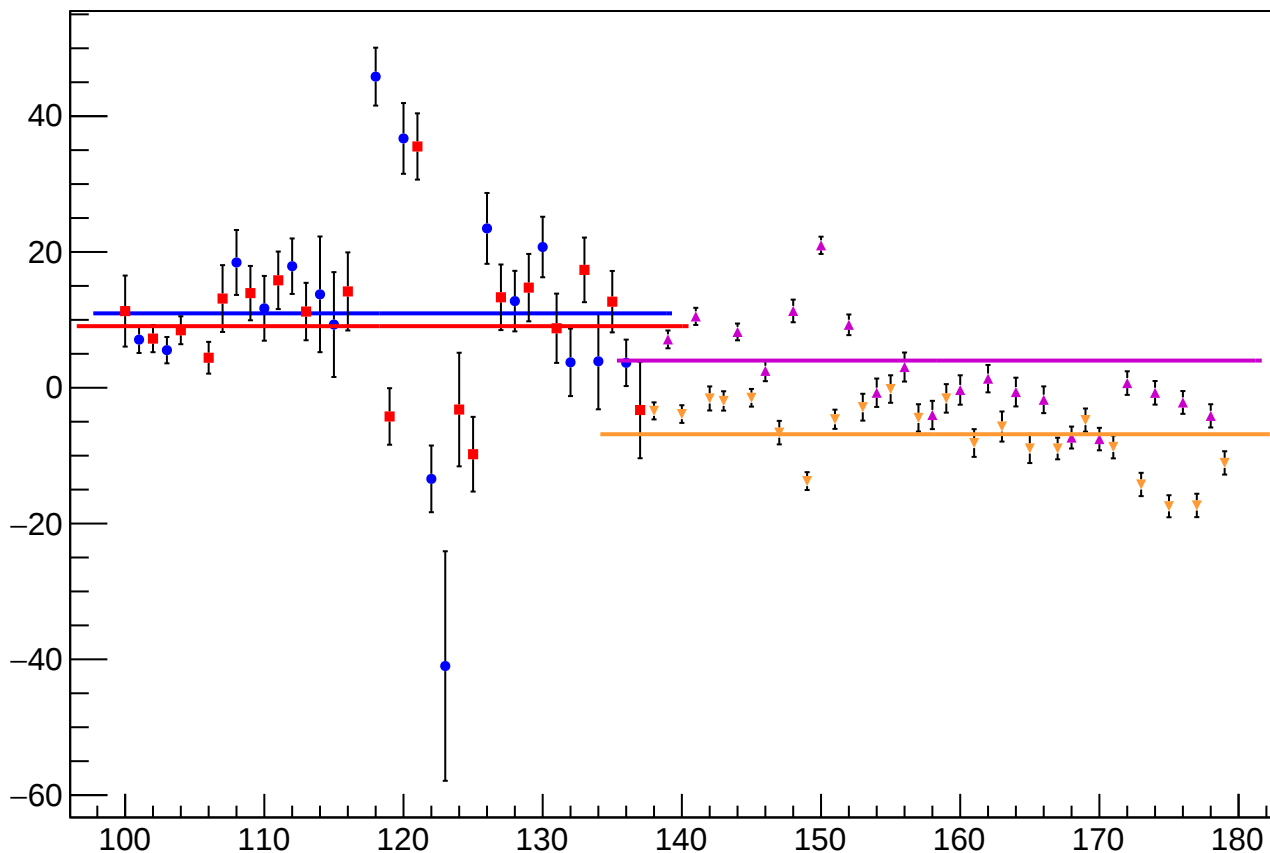
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 70153.265+/-10.635 χ^2/NDF : 763391.2/36

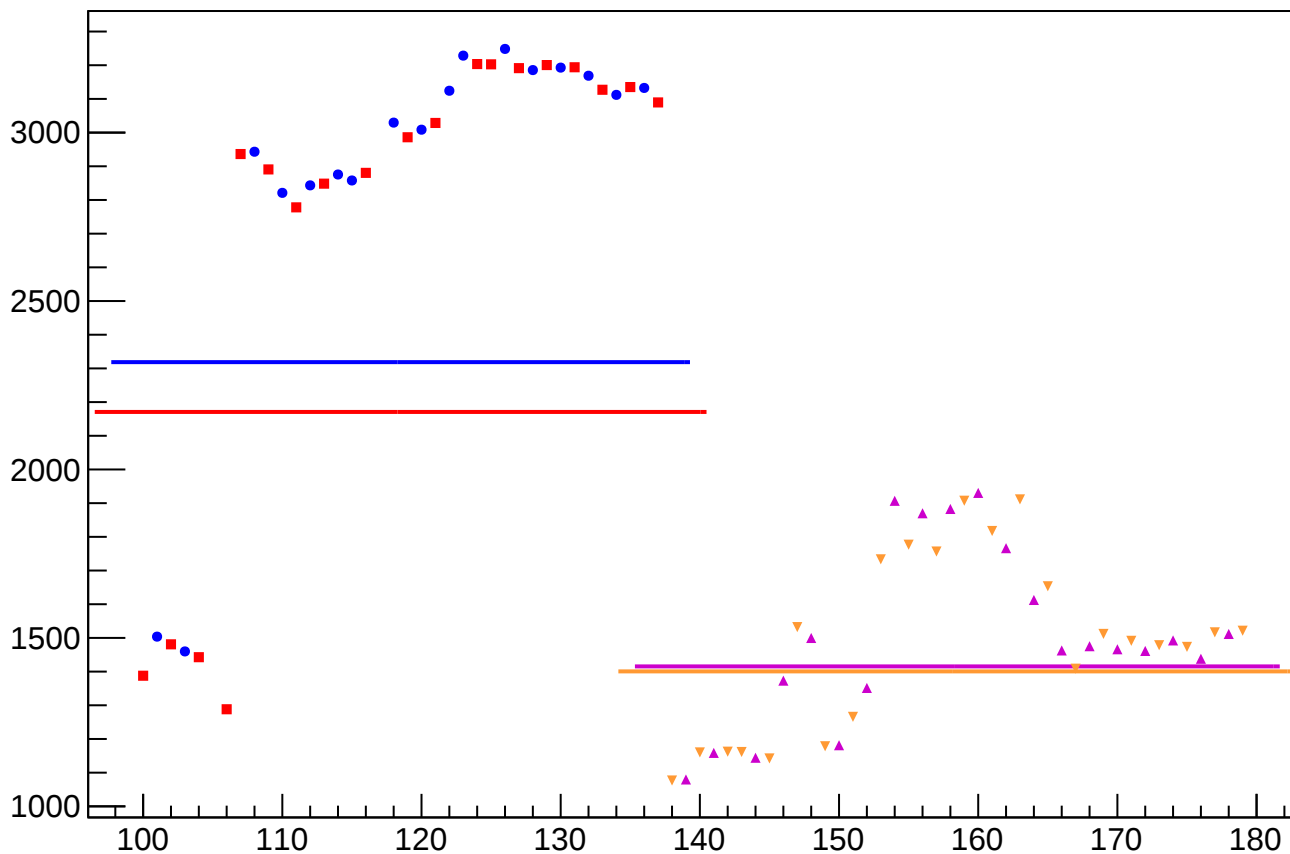
Out: 70249.605+/-10.291 χ^2/NDF : 800206.1/40

All: 70203.017+/-7.396 χ^2/NDF : 1563639.6/77

diff_bpm0r03Y_mean vs Slug, Sign Corrected



diff_bpm0r03Y_rms vs Slug, Sign Corrected



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

Left Out: 1400.618 $\pm$ 0.248 χ^2/NDF : 1022654.1/21

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

Left In: 1415.420 $\pm$ 0.259 χ^2/NDF : 898907.6/19

Left: 1407.676 $\pm$ 0.179 χ^2/NDF : 1923265.7/41

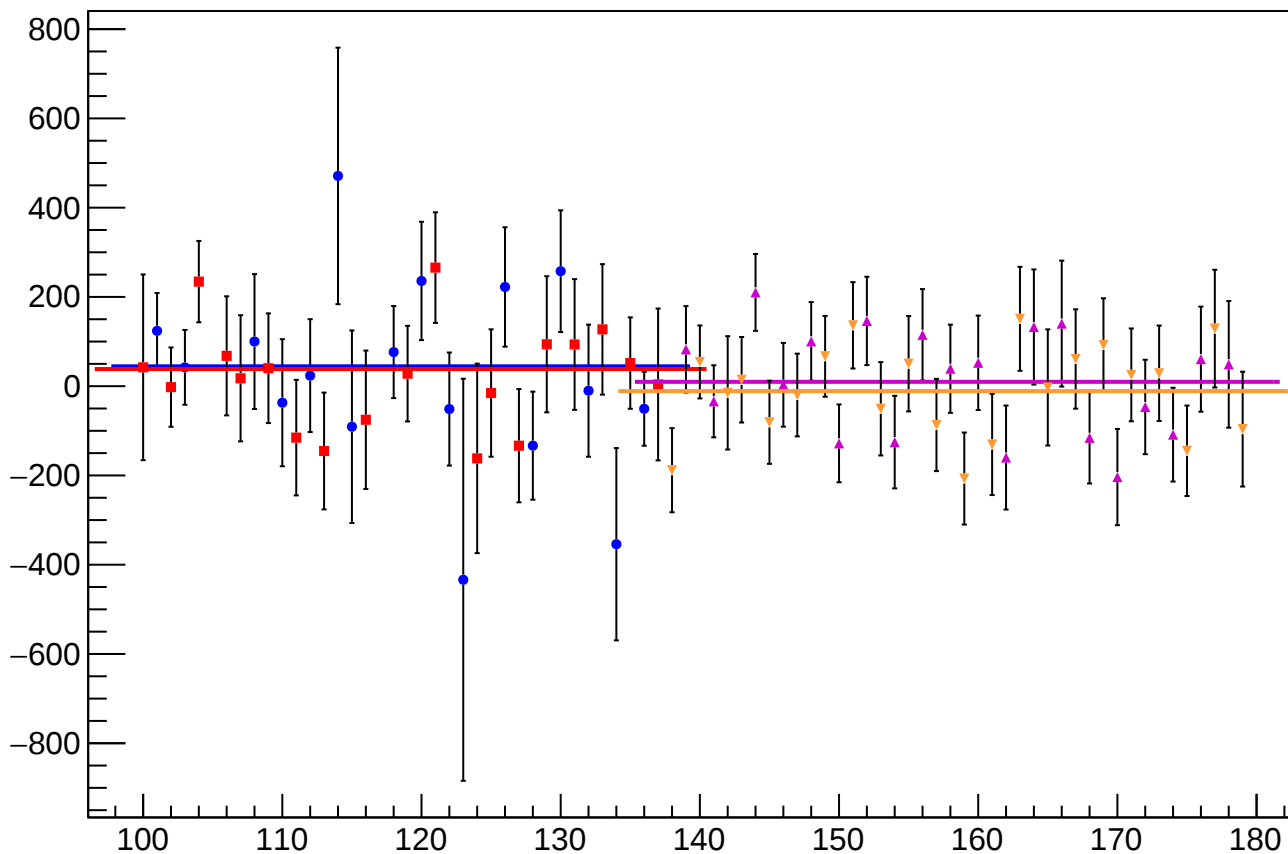
Right: 2238.439 $\pm$ 0.451 χ^2/NDF : 3188639.4/35

In: 1534.071 $\pm$ 0.242 χ^2/NDF : 3900319.8/36

Out: 1508.764 $\pm$ 0.230 χ^2/NDF : 4134997.1/40

All: 1520.764 $\pm$ 0.166 χ^2/NDF : 8041080.2/77

diff_bpm0r05X_mean vs Slug, Sign Corrected



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

Left Out: -11.074 $\pm$ 22.150 χ^2 /NDF:20.5/21

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: -0.978 $\pm$ 15.899 χ^2 /NDF: 46.8/41

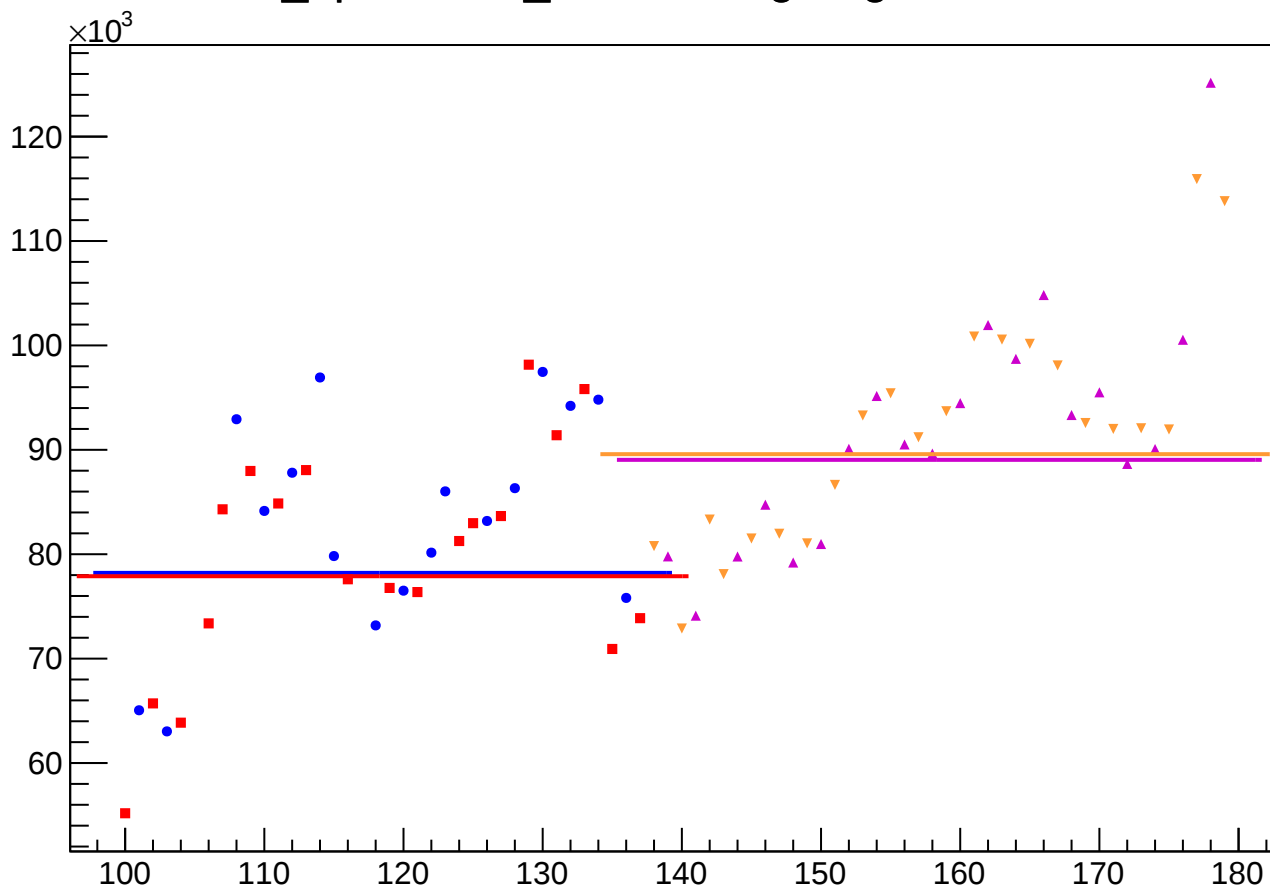
Right: 41.353 $\pm$ 21.157 χ^2 /NDF: 34.9/35

In: 22.262 $\pm$ 18.264 χ^2 /NDF:45.8/36

Out: 6.822 $\pm$ 17.699 χ^2 /NDF:38.1/40

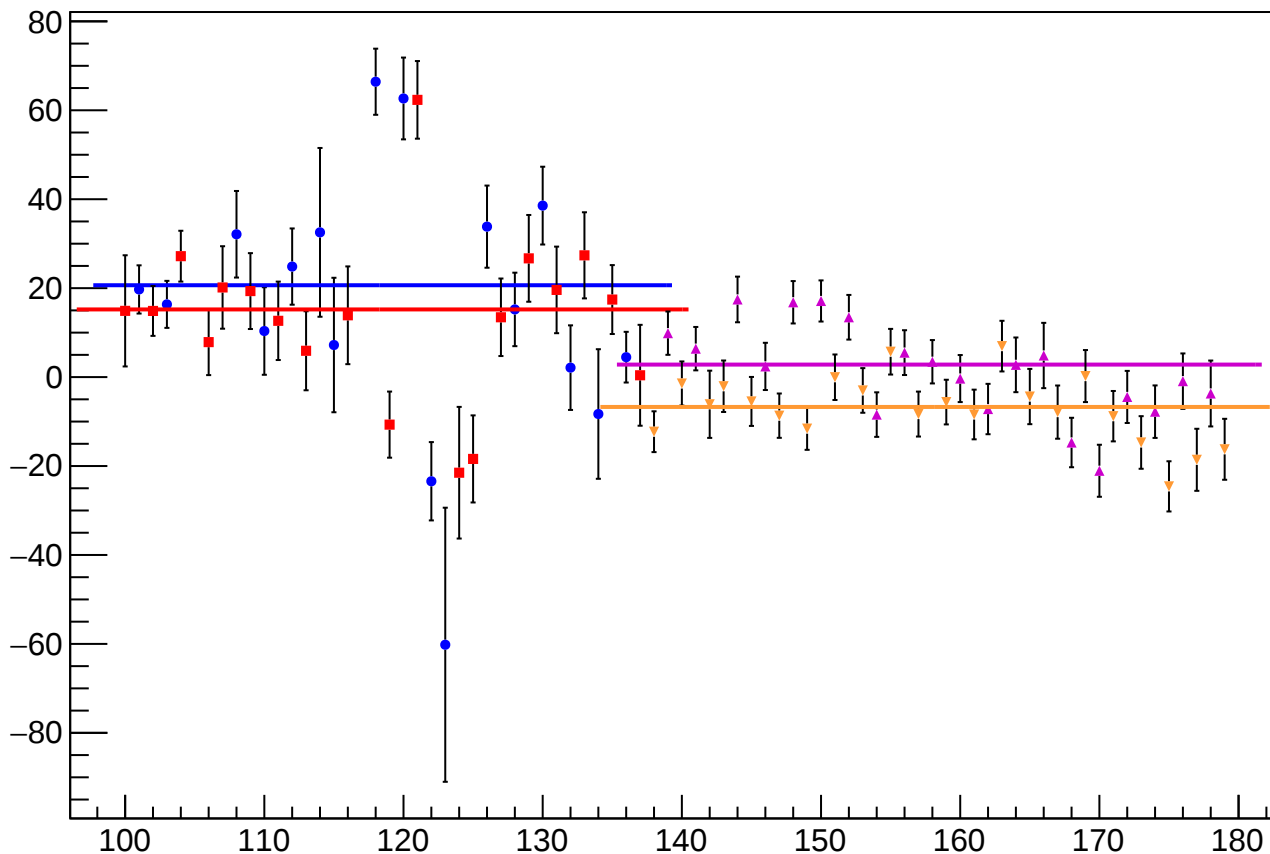
All: 14.299 $\pm$ 12.710 χ^2 /NDF: 84.2/77

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025+/-21.519	χ^2/NDF : 251056.7/16	Left: 89319.612+/-11.242	χ^2/NDF : 802790.0/41
Left Out: 89582.818+/-15.662	χ^2/NDF : 412984.6/21	Right: 78047.137+/-14.960	χ^2/NDF : 498141.9/35
Right Out: 77891.938+/-20.814	χ^2/NDF : 246970.2/18	In: 85139.936+/-12.915	χ^2/NDF : 802243.4/36
Left In: 89039.894+/-16.146	χ^2/NDF : 389222.9/19	Out: 85356.099+/-12.515	χ^2/NDF : 861387.5/40
		All: 85251.417+/-8.987	χ^2/NDF : 1663775.3/71

diff_bpm0r05Y_mean vs Slug, Sign Corrected



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

Left Out: -6.714 ± 1.173 $\chi^2/\text{NDF}: 37.0/21$

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: -2.091 ± 0.842 $\chi^2/\text{NDF}: 143.9/41$

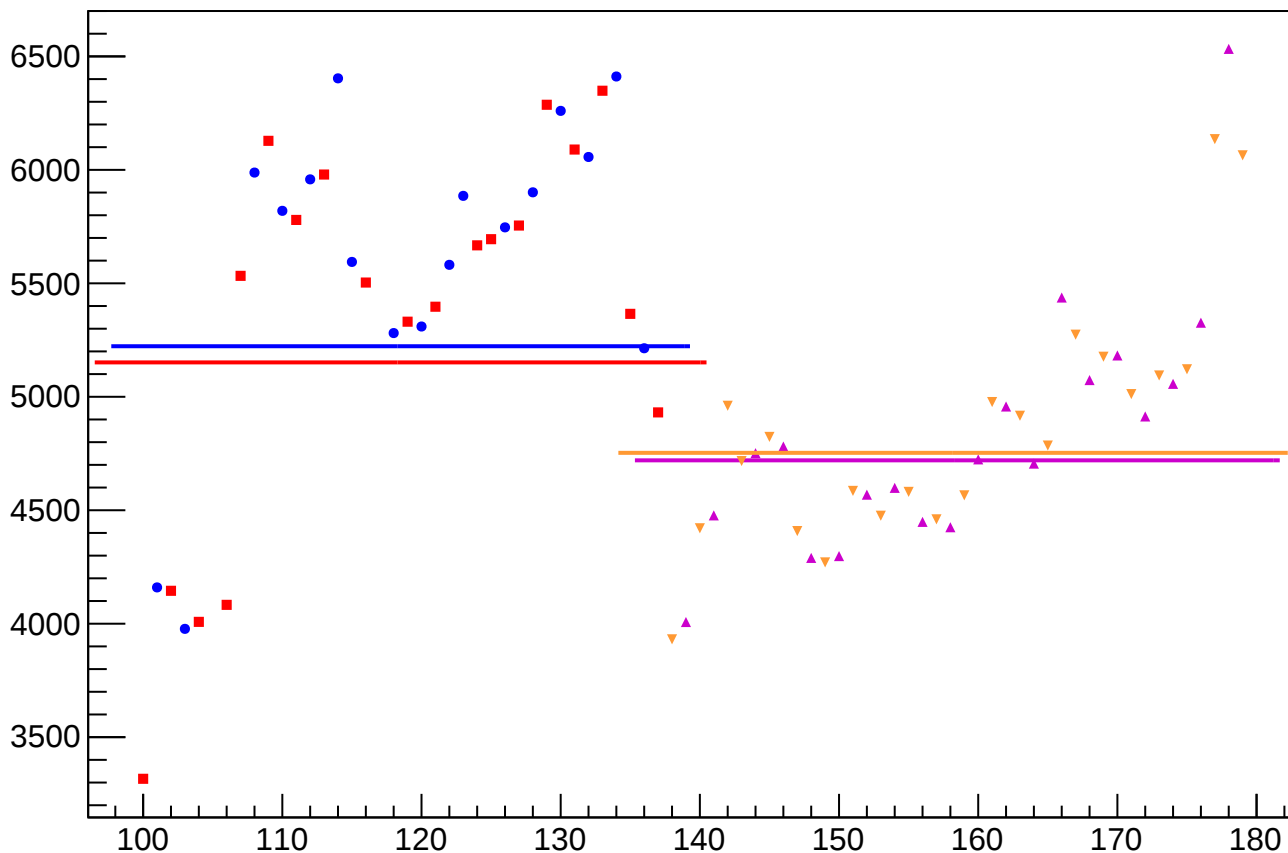
Right: 17.826 ± 1.410 $\chi^2/\text{NDF}: 192.8/35$

In: 7.462 ± 1.039 $\chi^2/\text{NDF}: 249.4/36$

Out: -0.904 ± 1.006 $\chi^2/\text{NDF}: 200.8/40$

All: 3.144 ± 0.723 $\chi^2/\text{NDF}: 483.7/77$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



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

Left Out: 4753.020 ± 0.830 $\chi^2/\text{NDF}: 326704.1/21$

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: 4736.958 ± 0.595 $\chi^2/\text{NDF}: 615261.7/41$

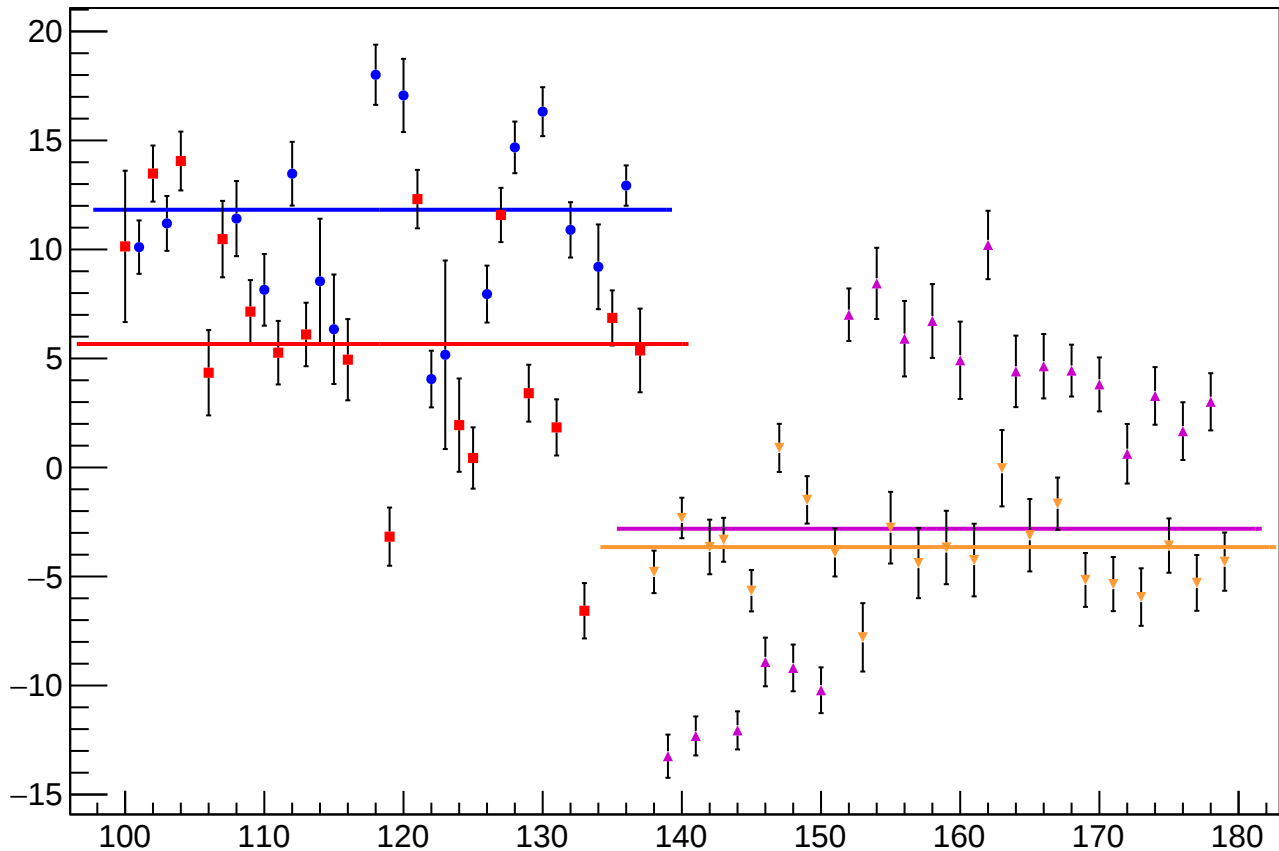
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4850.947 ± 0.735 $\chi^2/\text{NDF}: 690501.4/36$

Out: 4858.597 ± 0.711 $\chi^2/\text{NDF}: 775494.8/40$

All: 4854.896 ± 0.511 $\chi^2/\text{NDF}: 1466052.2/77$

diff_bpm2i01X_mean vs Slug, Sign Corrected



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

Left Out: -3.651 ± 0.264 $\chi^2/\text{NDF}: 52.0/21$

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: -3.251 ± 0.191 $\chi^2/\text{NDF}: 935.9/41$

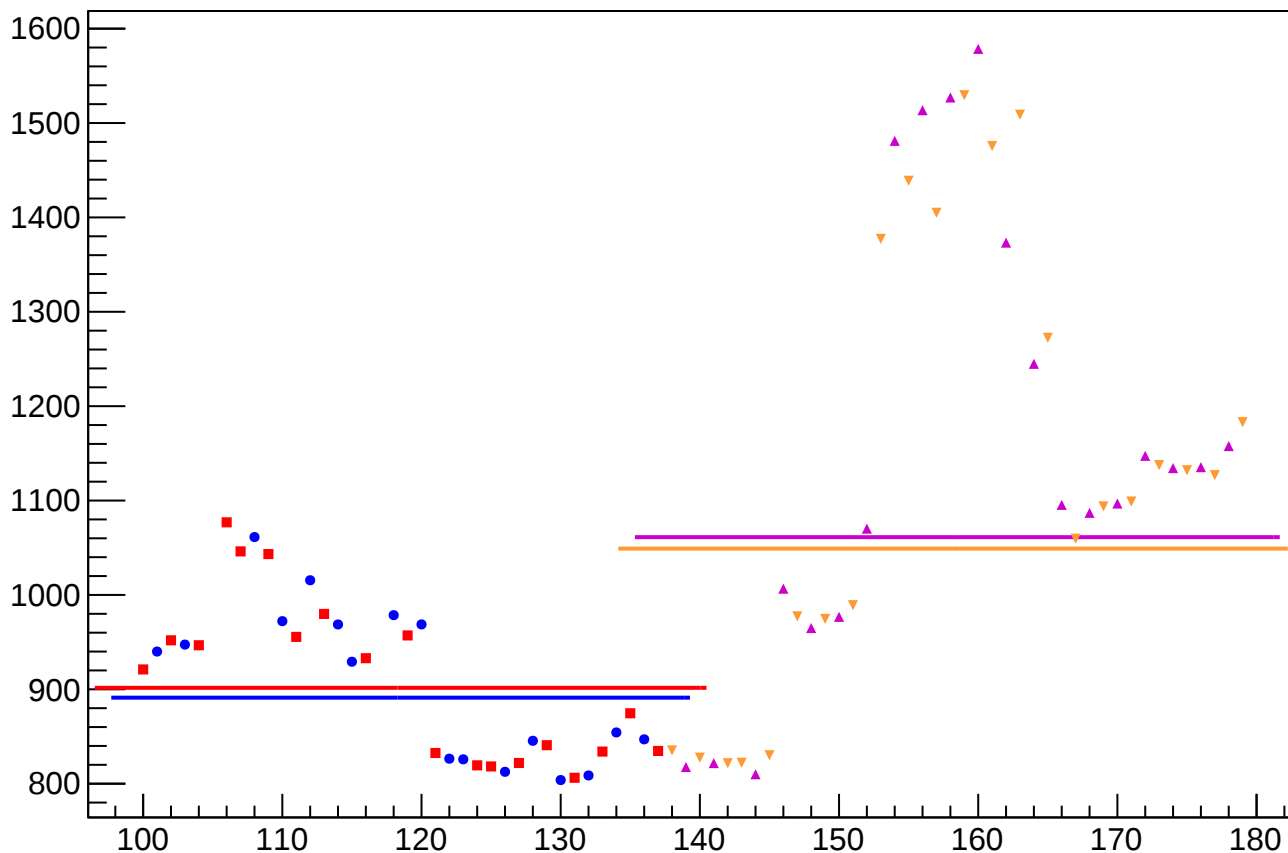
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.922 ± 0.216 $\chi^2/\text{NDF}: 2093.3/36$

Out: -0.135 ± 0.208 $\chi^2/\text{NDF}: 823.5/40$

All: 1.338 ± 0.150 $\chi^2/\text{NDF}: 3020.9/77$

diff_bpm2i01X_rms vs Slug, Sign Corrected



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

Left Out: 1049.103 ± 0.186 χ^2/NDF : 1325172.3/21

Right Out: 901.588 ± 0.239 χ^2/NDF : 114590.8/18

Left In: 1061.209 ± 0.196 χ^2/NDF : 1192742.5/19

Left: 1054.867 ± 0.135 χ^2/NDF : 2519923.5/41

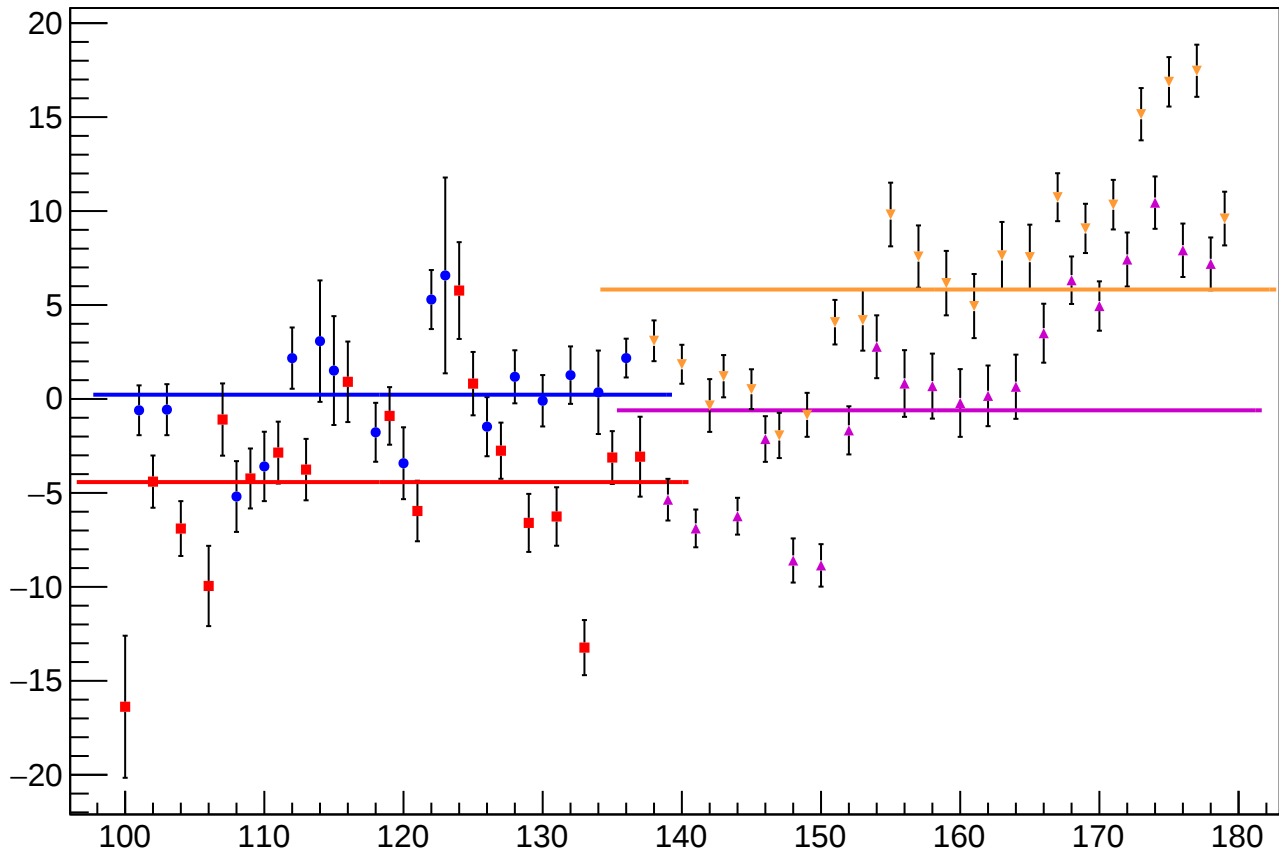
Right: 896.461 ± 0.171 χ^2/NDF : 217184.3/35

In: 994.581 ± 0.152 χ^2/NDF : 1590826.5/36

Out: 993.408 ± 0.147 χ^2/NDF : 1676230.8/40

All: 993.973 ± 0.106 χ^2/NDF : 3267088.0/77

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.227 $\pm$ 0.395 χ^2/NDF : 38.5/16

Left Out: 5.824 $\pm$ 0.284 χ^2/NDF : 394.1/21

Right Out: -4.423 $\pm$ 0.387 χ^2/NDF : 103.3/18

Left In: -0.604 $\pm$ 0.298 χ^2/NDF : 414.0/19

Left: 2.760 $\pm$ 0.205 χ^2/NDF : 1052.4/41

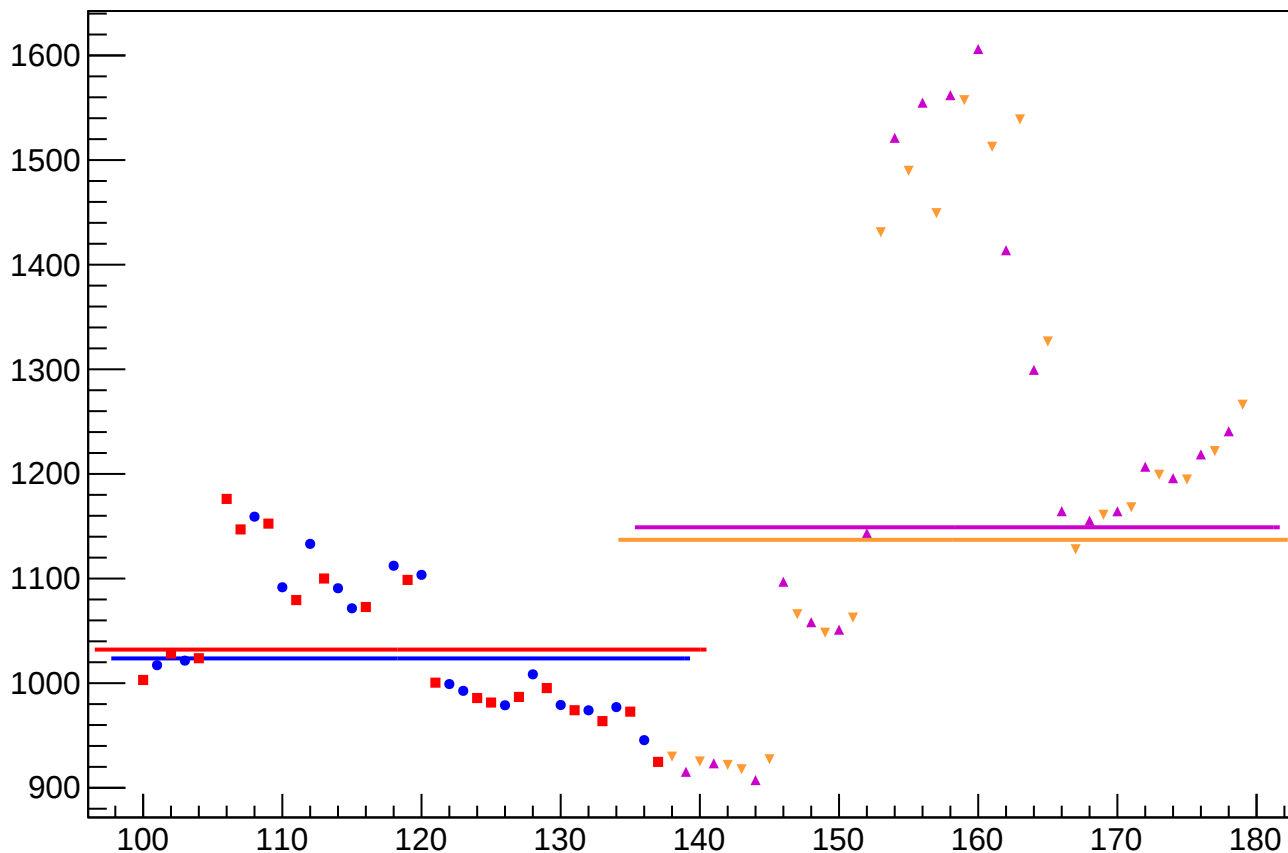
Right: -2.147 $\pm$ 0.276 χ^2/NDF : 212.6/35

In: -0.303 $\pm$ 0.238 χ^2/NDF : 455.3/36

Out: 2.235 $\pm$ 0.229 χ^2/NDF : 953.6/40

All: 1.013 $\pm$ 0.165 χ^2/NDF : 1468.1/77

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.655 ± 0.279 $\chi^2/\text{NDF}: 52373.8/16$

Left Out: 1137.029 ± 0.201 $\chi^2/\text{NDF}: 983763.6/21$

Right Out: 1032.107 ± 0.273 $\chi^2/\text{NDF}: 59391.6/18$

Left In: 1149.000 ± 0.210 $\chi^2/\text{NDF}: 876979.6/19$

Left: 1142.735 ± 0.145 $\chi^2/\text{NDF}: 1862437.3/41$

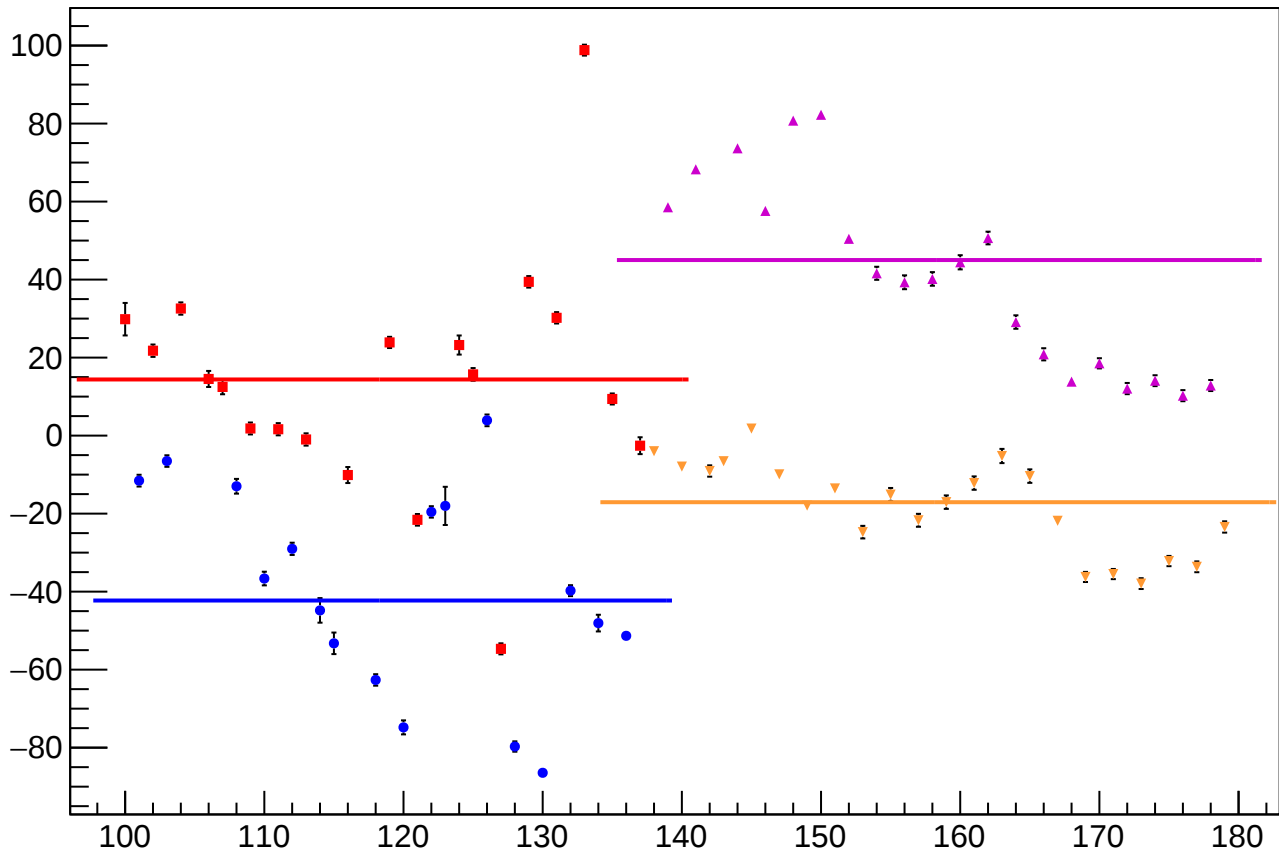
Right: 1027.970 ± 0.195 $\chi^2/\text{NDF}: 112233.0/35$

In: 1103.620 ± 0.168 $\chi^2/\text{NDF}: 1057845.3/36$

Out: 1100.272 ± 0.162 $\chi^2/\text{NDF}: 1138801.8/40$

All: 1101.883 ± 0.117 $\chi^2/\text{NDF}: 2196853.1/77$

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.278 $\pm$ 0.387 χ^2/NDF : 5126.8/16

Left Out: -17.072 $\pm$ 0.288 χ^2/NDF : 1714.2/21

Right Out: 14.393 $\pm$ 0.378 χ^2/NDF : 7669.8/18

Left In: 45.011 $\pm$ 0.303 χ^2/NDF : 6795.8/19

Left: 12.405 $\pm$ 0.209 χ^2/NDF : 30558.9/41

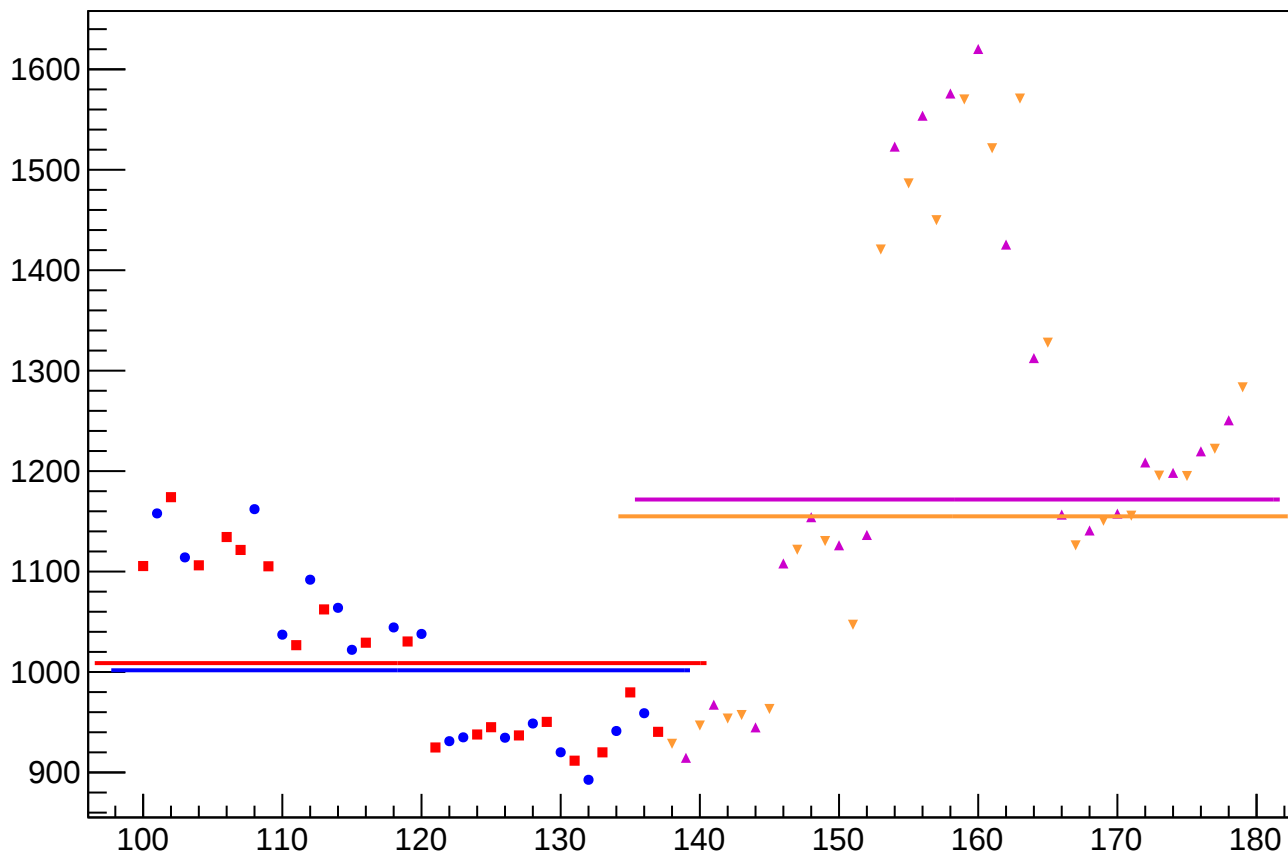
Right: -13.301 $\pm$ 0.271 χ^2/NDF : 23754.3/35

In: 11.851 $\pm$ 0.239 χ^2/NDF : 43450.7/36

Out: -5.528 $\pm$ 0.229 χ^2/NDF : 13760.2/40

All: 2.814 $\pm$ 0.165 χ^2/NDF : 59969.7/77

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 $\pm$ 0.274 χ^2 /NDF: 95480.0/16

Left Out: 1154.981 $\pm$ 0.204 χ^2 /NDF:889563.6/21

Right Out: 1008.848 $\pm$ 0.268 χ^2 /NDF: 95349.9/18

Left In: 1171.723 $\pm$ 0.214 χ^2 /NDF:775265.2/19

Left: 1162.930 $\pm$ 0.148 χ^2 /NDF: 1668035.8/41

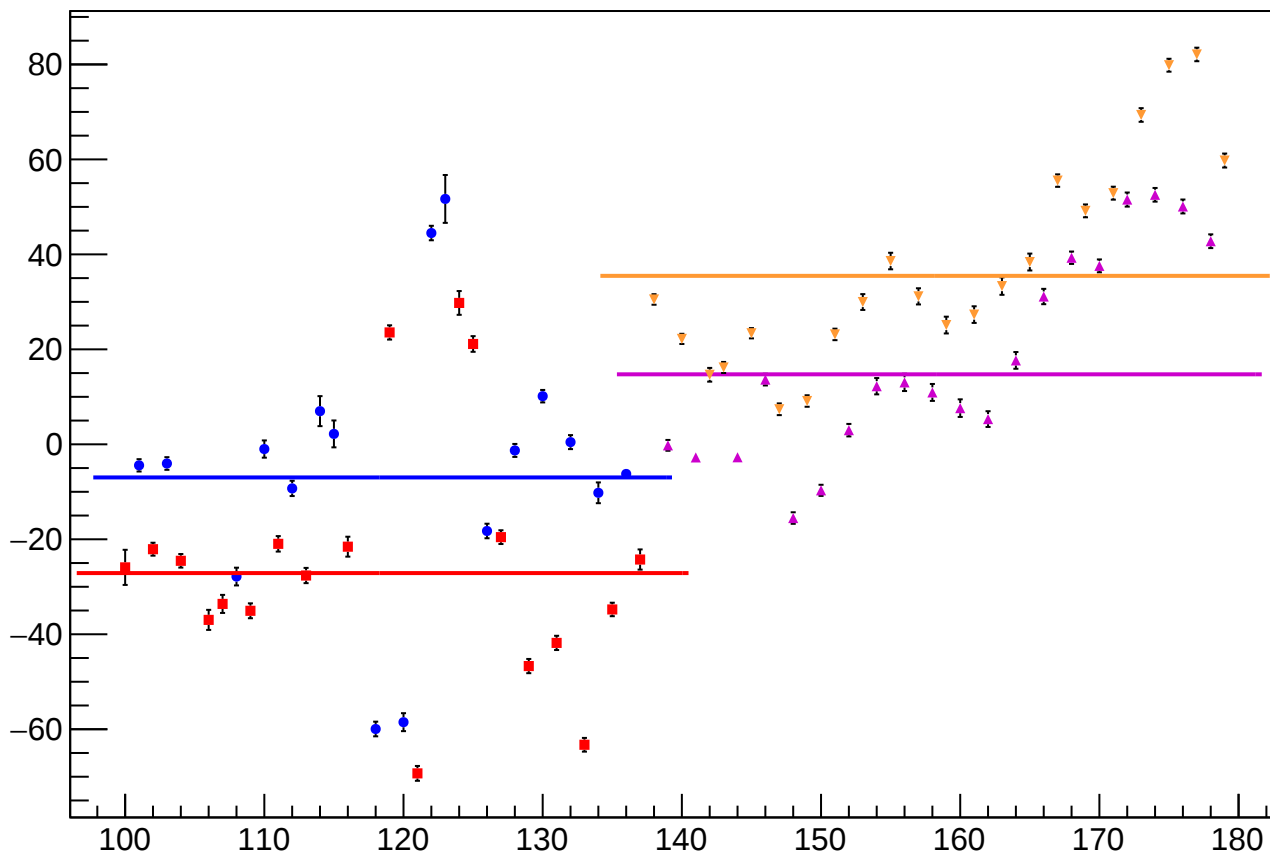
Right: 1005.358 $\pm$ 0.191 χ^2 /NDF: 191177.9/35

In: 1107.136 $\pm$ 0.169 χ^2 /NDF:1109958.2/36

Out: 1101.368 $\pm$ 0.162 χ^2 /NDF:1173701.6/40

All: 1104.137 $\pm$ 0.117 χ^2 /NDF: 2284267.4/77

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.974 ± 0.388 χ^2/NDF : 3636.9/16

Left Out: 35.478 ± 0.292 χ^2/NDF : 5409.1/21

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: 25.597 ± 0.212 χ^2/NDF : 12755.4/41

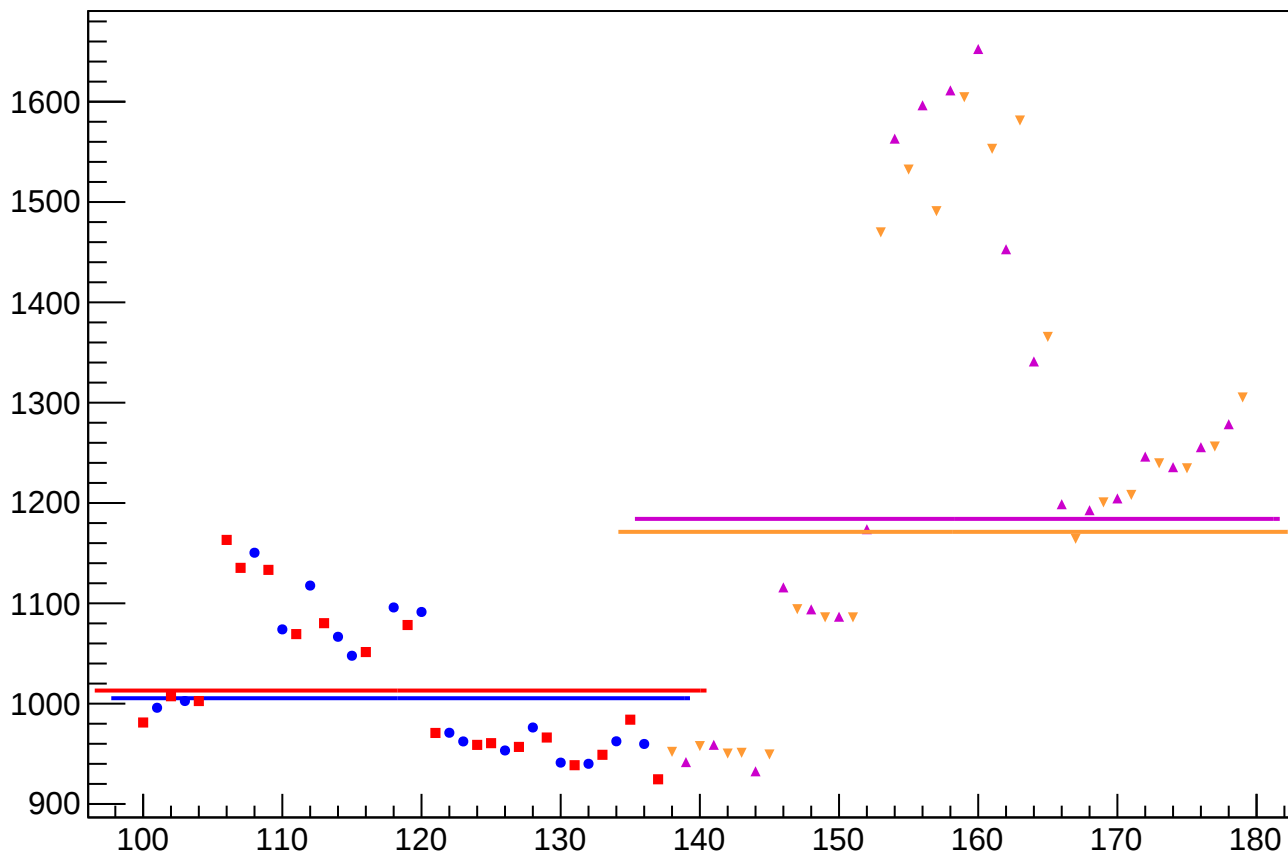
Right: -17.264 ± 0.271 χ^2/NDF : 9297.5/35

In: 6.393 ± 0.241 χ^2/NDF : 10516.7/36

Out: 12.159 ± 0.232 χ^2/NDF : 26753.9/40

All: 9.384 ± 0.167 χ^2/NDF : 37568.7/77

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2 /NDF: 54586.0/16

Left Out: 1171.245 $\pm$ 0.207 χ^2 /NDF:981245.8/21

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: 1177.404 $\pm$ 0.150 χ^2 /NDF: 1853012.5/41

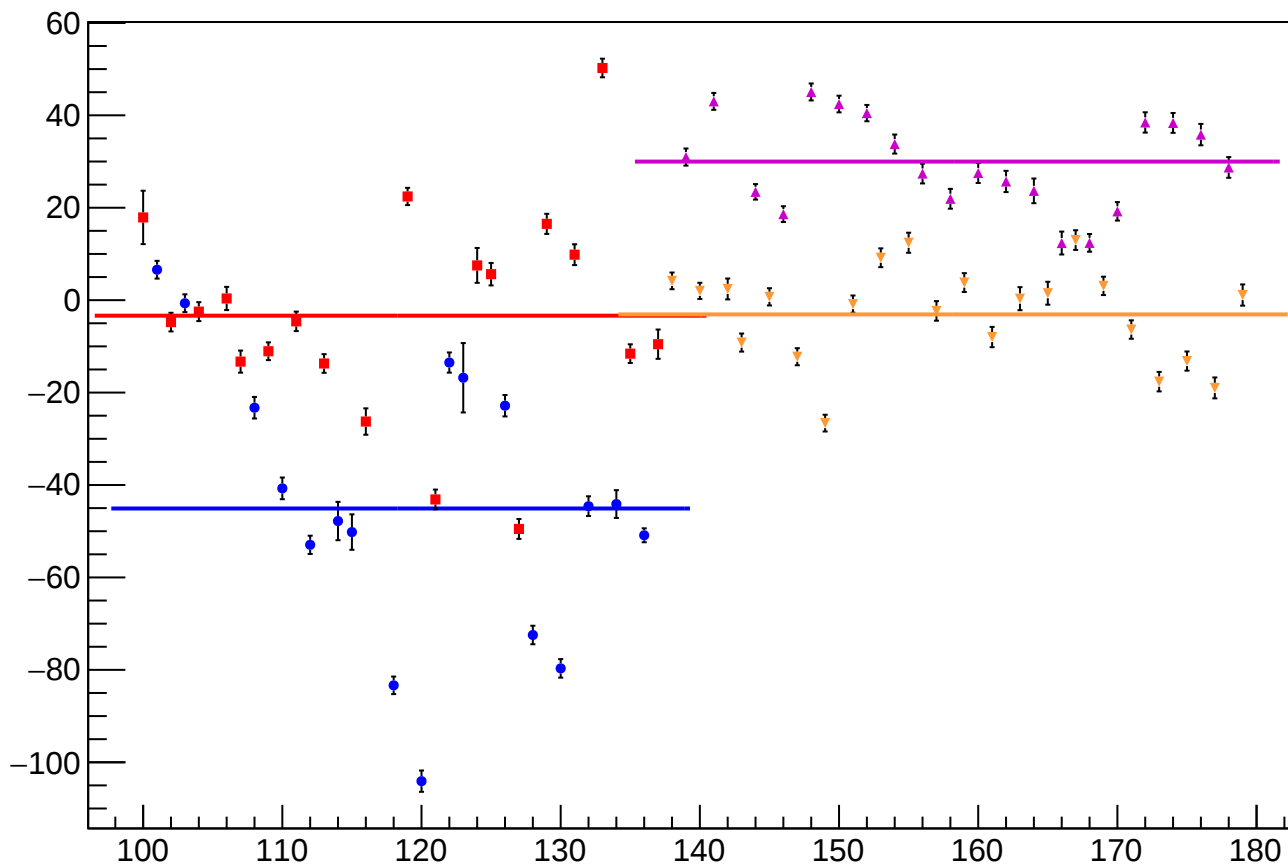
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

In: 1115.448 $\pm$ 0.170 χ^2 /NDF:1185880.2/36

Out: 1112.317 $\pm$ 0.164 χ^2 /NDF:1262431.2/40

All: 1113.824 $\pm$ 0.118 χ^2 /NDF: 2448487.2/77

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 $\chi^2/\text{NDF}: 3238.1/16$

Left Out: -3.082 ± 0.435 $\chi^2/\text{NDF}: 540.9/21$

Right Out: -3.358 ± 0.522 $\chi^2/\text{NDF}: 2005.7/18$

Left In: 29.984 ± 0.450 $\chi^2/\text{NDF}: 491.7/19$

Left: 12.881 ± 0.313 $\chi^2/\text{NDF}: 3819.3/41$

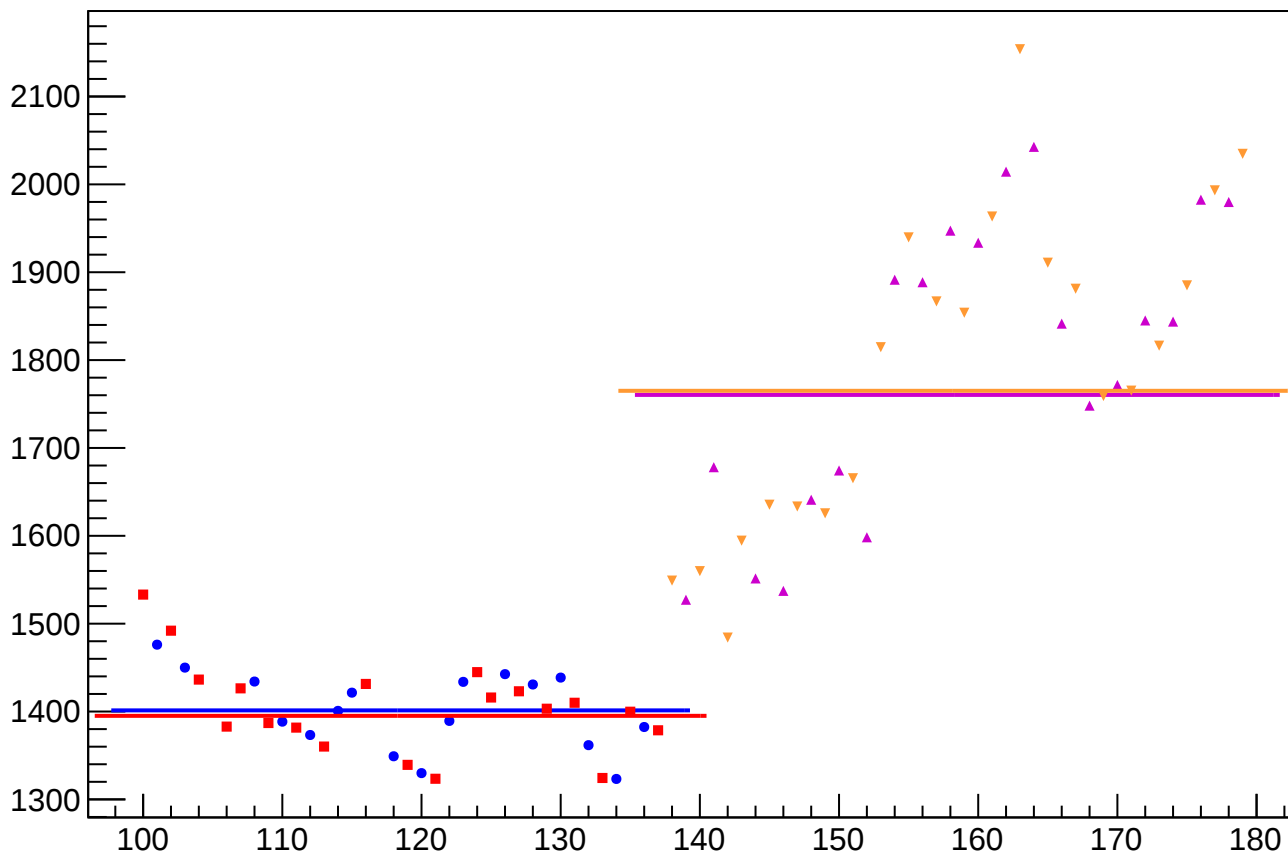
Right: -23.517 ± 0.375 $\chi^2/\text{NDF}: 8332.8/35$

In: -0.840 ± 0.346 $\chi^2/\text{NDF}: 15131.2/36$

Out: -3.195 ± 0.334 $\chi^2/\text{NDF}: 2546.8/40$

All: -2.058 ± 0.240 $\chi^2/\text{NDF}: 17702.0/77$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 $\pm$ 0.382 χ^2 /NDF: 12852.1/16

Left Out: 1765.040 $\pm$ 0.308 χ^2 /NDF: 295696.7/21

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: 1762.788 $\pm$ 0.221 χ^2 /NDF: 562703.9/41

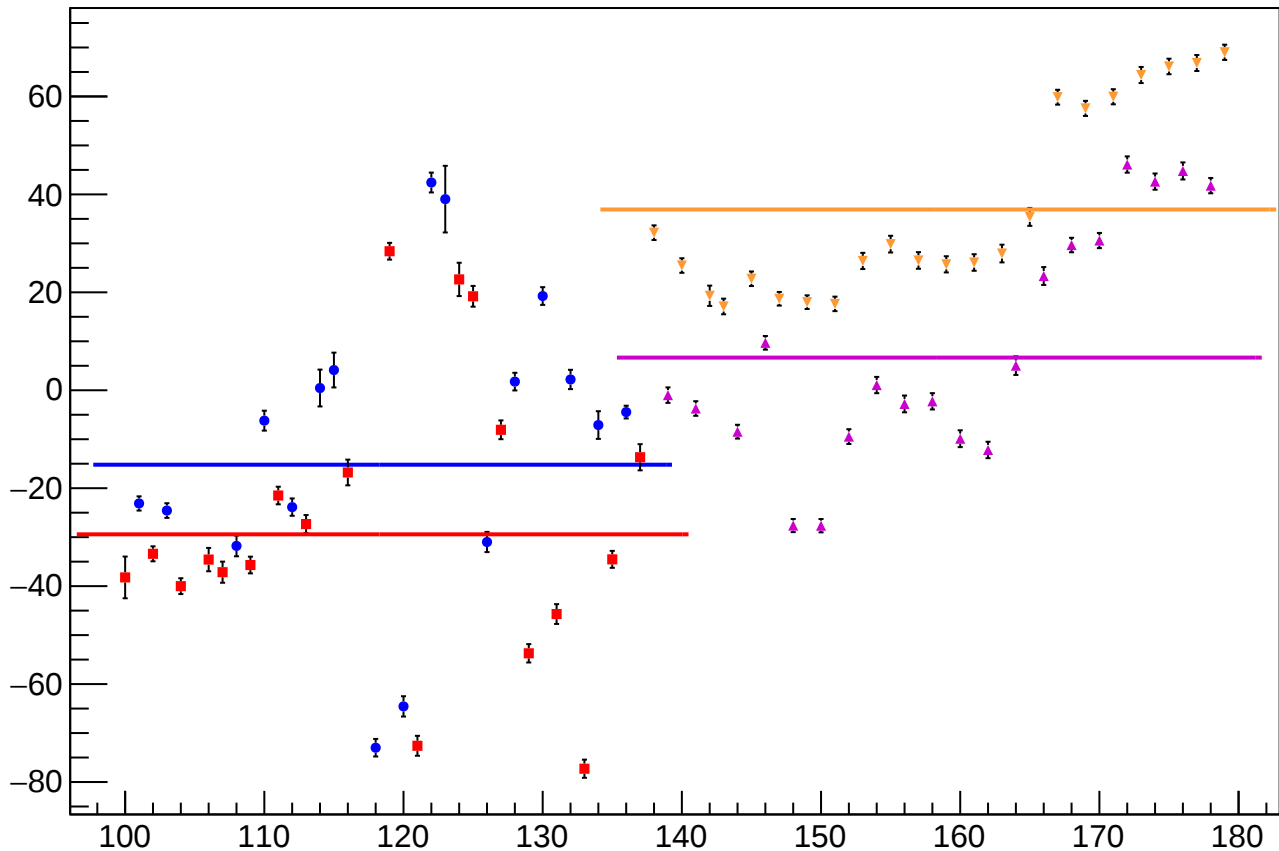
Right: 1398.102 $\pm$ 0.265 χ^2 /NDF: 28508.5/35

In: 1612.927 $\pm$ 0.245 χ^2 /NDF: 801502.6/36

Out: 1613.273 $\pm$ 0.236 χ^2 /NDF: 904025.8/40

All: 1613.106 $\pm$ 0.170 χ^2 /NDF: 1705529.3/77

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 36.918 ± 0.340 χ^2/NDF : 3123.9/21

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: 22.331 ± 0.244 χ^2/NDF : 11408.6/41

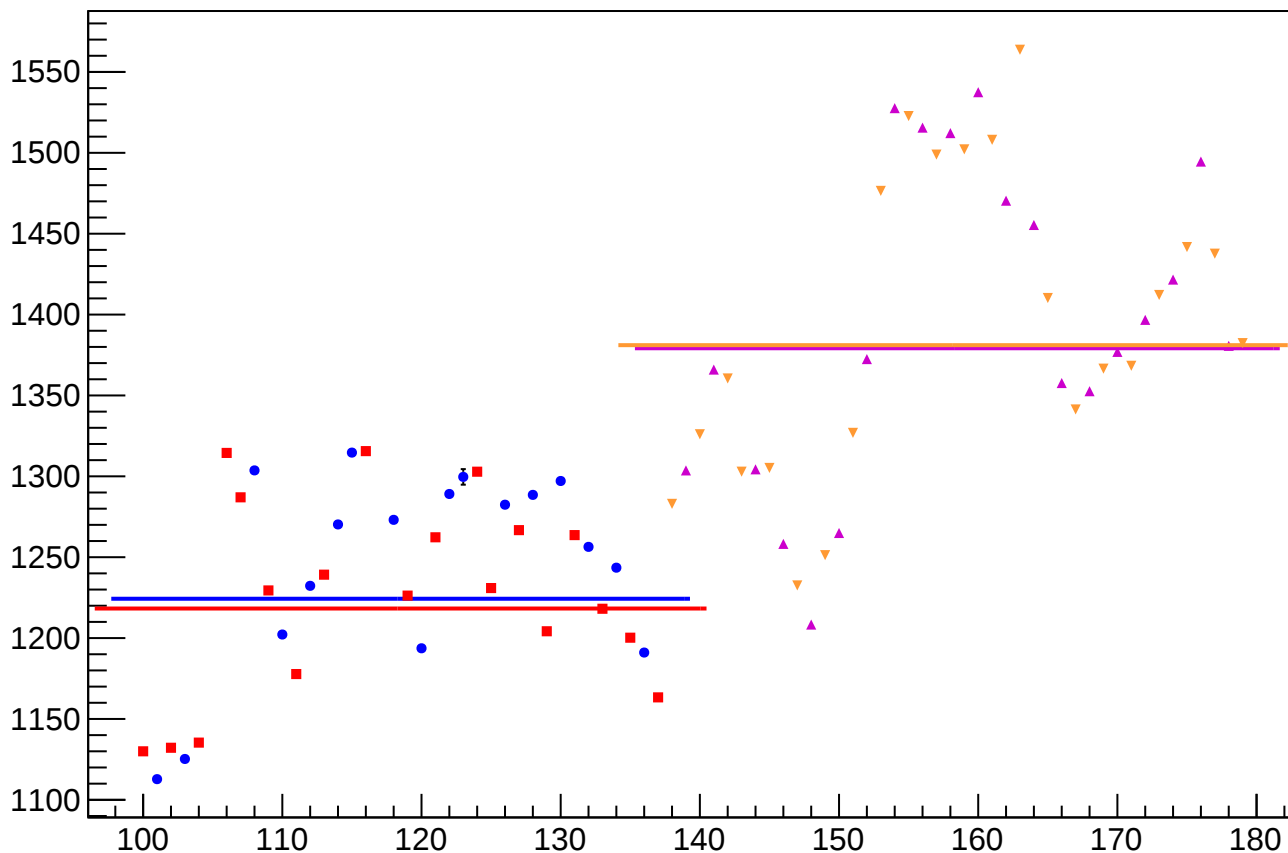
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -1.146 ± 0.282 χ^2/NDF : 9204.8/36

Out: 13.248 ± 0.272 χ^2/NDF : 20268.7/40

All: 6.304 ± 0.196 χ^2/NDF : 30819.7/77

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1381.092+/-0.240 χ^2/NDF :144939.1/21

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: 1380.167+/-0.173 χ^2/NDF : 295576.0/41

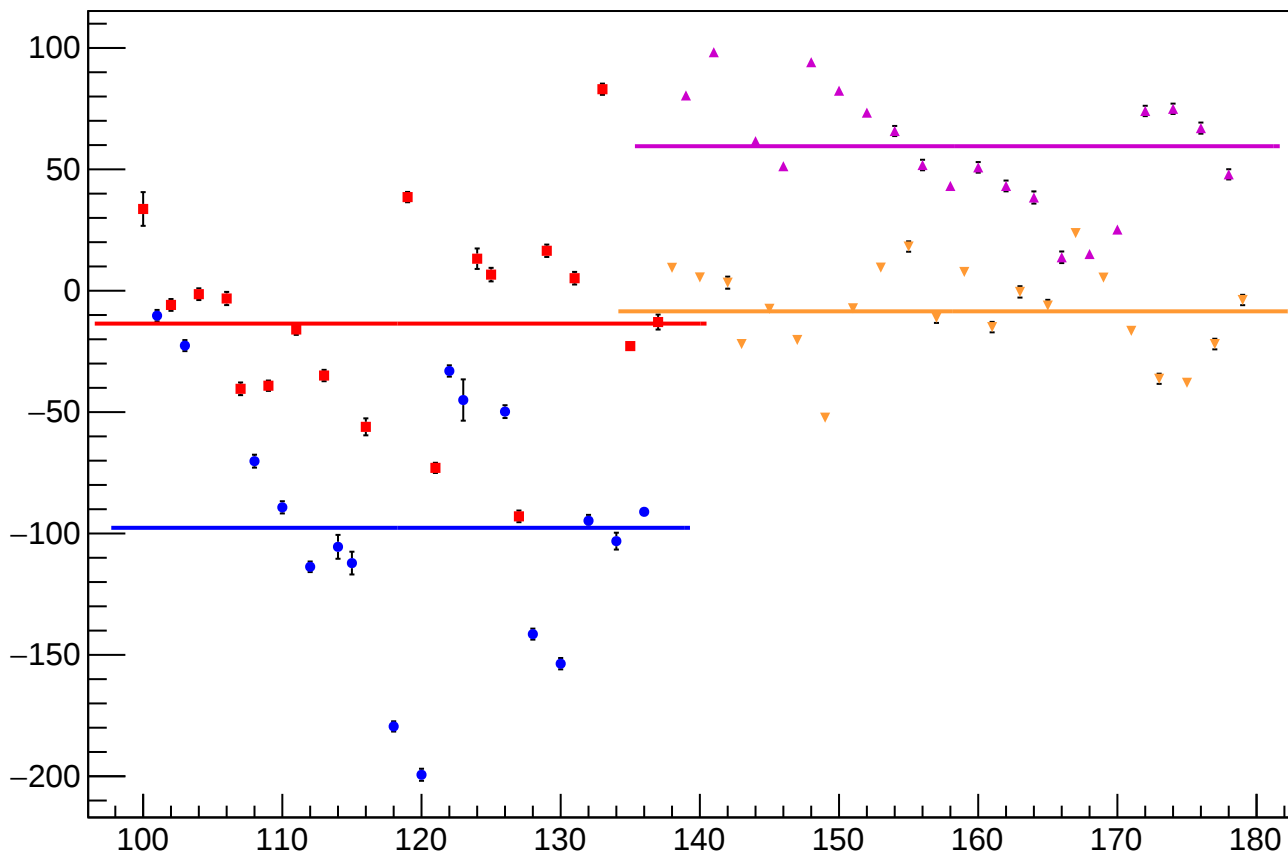
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1323.835+/-0.200 χ^2/NDF :327662.2/36

Out: 1322.997+/-0.193 χ^2/NDF :336369.7/40

All: 1323.401+/-0.139 χ^2/NDF : 664041.0/77

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -8.485 ± 0.431 χ^2/NDF : 1916.8/21

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: 24.187 ± 0.311 χ^2/NDF : 16657.3/41

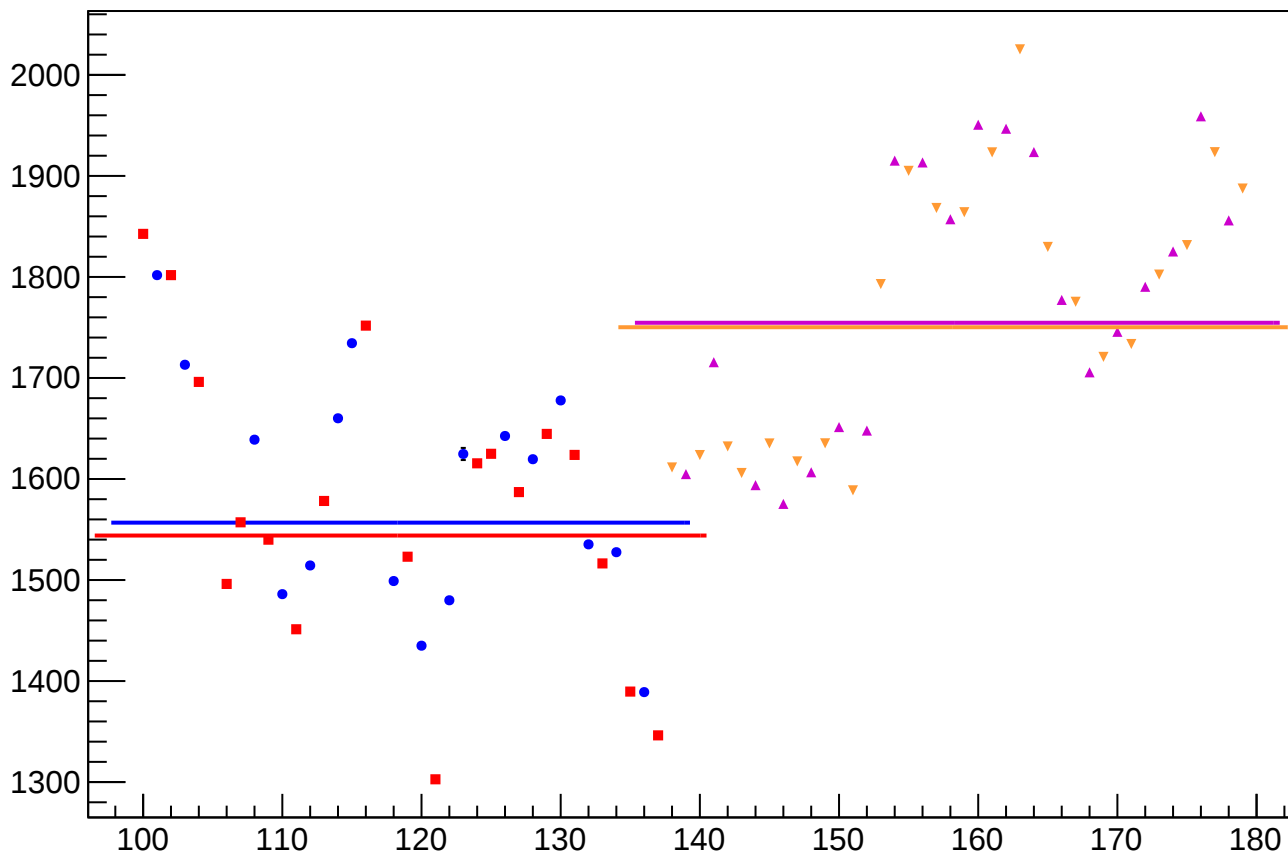
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: 3.404 ± 0.359 χ^2/NDF : 54639.5/36

Out: -10.284 ± 0.346 χ^2/NDF : 7093.9/40

All: -3.704 ± 0.249 χ^2/NDF : 62487.0/77

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1750.219 $\pm$ 0.305 χ^2 /NDF:171172.4/21

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1754.636 $\pm$ 0.317 χ^2 /NDF:171305.3/19

Left: 1752.341 $\pm$ 0.220 χ^2 /NDF: 342578.7/41

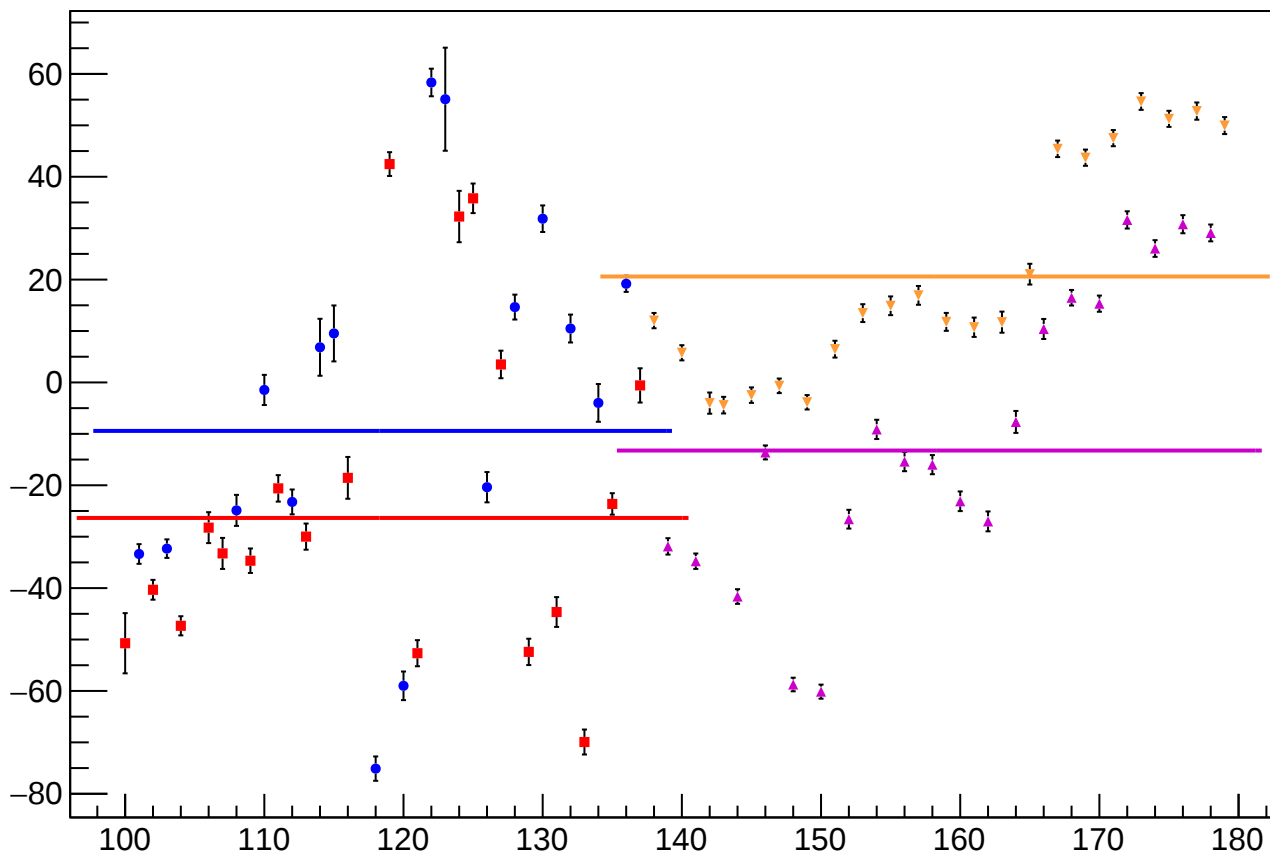
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1683.993 $\pm$ 0.254 χ^2 /NDF:392039.6/36

Out: 1676.798 $\pm$ 0.244 χ^2 /NDF:434772.5/40

All: 1680.257 $\pm$ 0.176 χ^2 /NDF: 827228.6/77

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427+/-0.626 χ^2/NDF : 2924.1/16

Left Out: 20.598+/-0.352 χ^2/NDF :3707.9/21

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: 4.391+/-0.254 χ^2/NDF : 14833.7/41

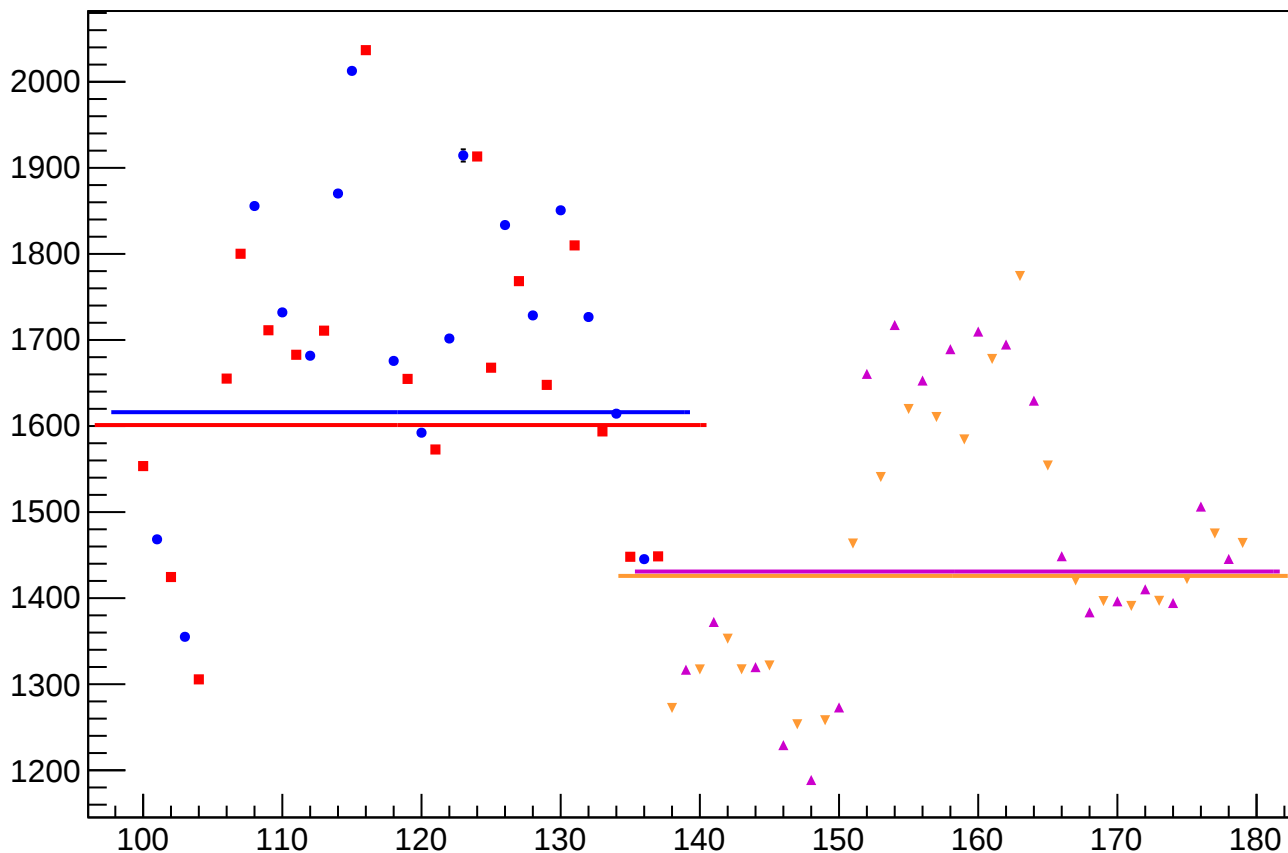
Right: -18.216+/-0.434 χ^2/NDF : 5775.3/35

In: -12.270+/-0.317 χ^2/NDF :9647.4/36

Out: 8.665+/-0.304 χ^2/NDF :10705.1/40

All: -1.370+/-0.219 χ^2/NDF : 22627.6/77

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2 /NDF: 149596.3/16

Left Out: 1425.844 $\pm$ 0.249 χ^2 /NDF: 287659.7/21

Right Out: 1601.134 $\pm$ 0.426 χ^2 /NDF: 153651.5/18

Left In: 1430.938 $\pm$ 0.260 χ^2 /NDF: 413081.3/19

Left: 1428.284 $\pm$ 0.180 χ^2 /NDF: 700941.7/41

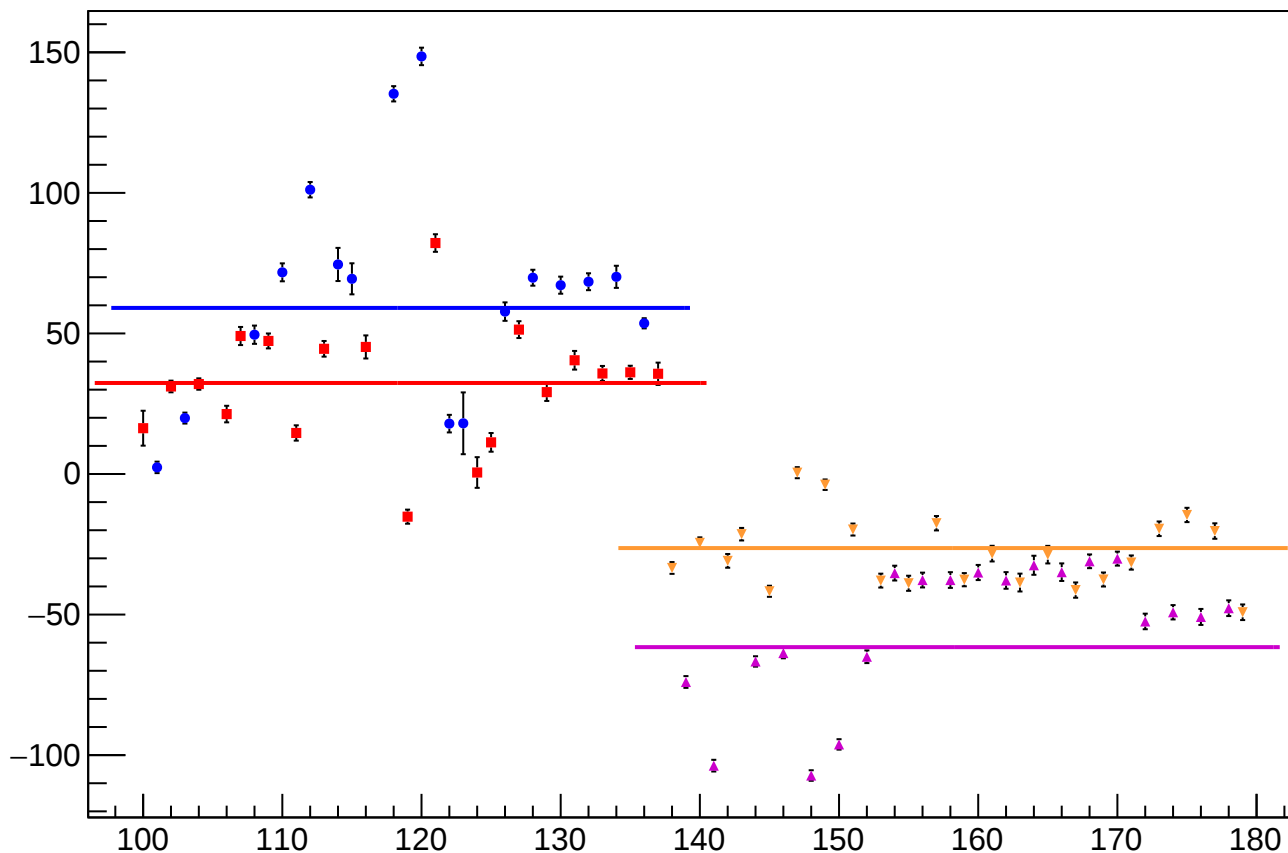
Right: 1608.326 $\pm$ 0.307 χ^2 /NDF: 303840.0/35

In: 1478.260 $\pm$ 0.224 χ^2 /NDF: 692737.2/36

Out: 1470.394 $\pm$ 0.215 χ^2 /NDF: 567453.5/40

All: 1474.165 $\pm$ 0.155 χ^2 /NDF: 1260833.1/77

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -26.349 ± 0.509 χ^2/NDF : 671.1/21

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: -43.199 ± 0.368 χ^2/NDF : 5307.8/41

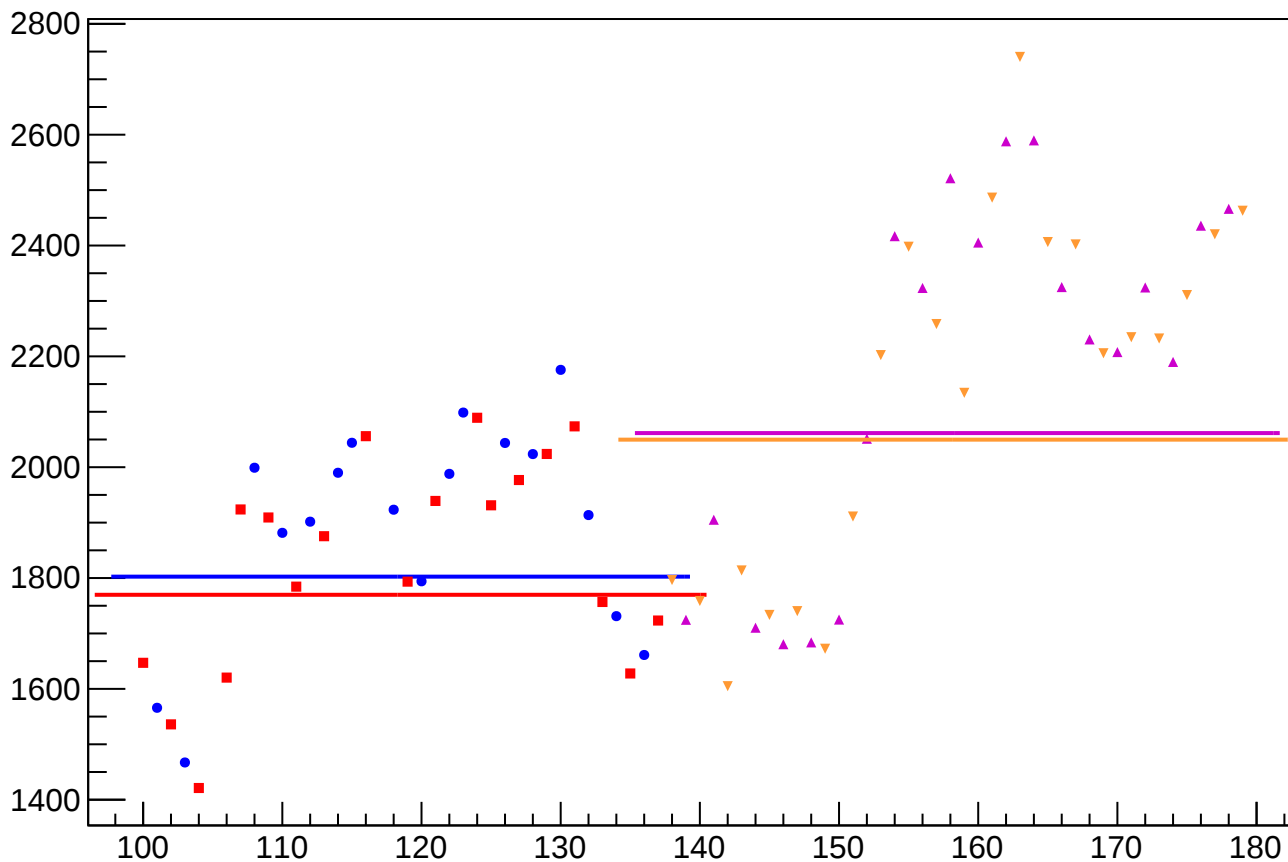
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -17.353 ± 0.423 χ^2/NDF : 24493.8/36

Out: -4.693 ± 0.405 χ^2/NDF : 6464.5/40

All: -10.736 ± 0.293 χ^2/NDF : 31425.4/77

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524 ± 0.495 $\chi^2/\text{NDF}: 184069.0/16$

Left Out: 2049.722 ± 0.360 $\chi^2/\text{NDF}: 741968.0/21$

Right Out: 1769.772 ± 0.471 $\chi^2/\text{NDF}: 177893.4/18$

Left In: 2061.583 ± 0.376 $\chi^2/\text{NDF}: 751106.3/19$

Left: 2055.394 ± 0.260 $\chi^2/\text{NDF}: 1493592.9/41$

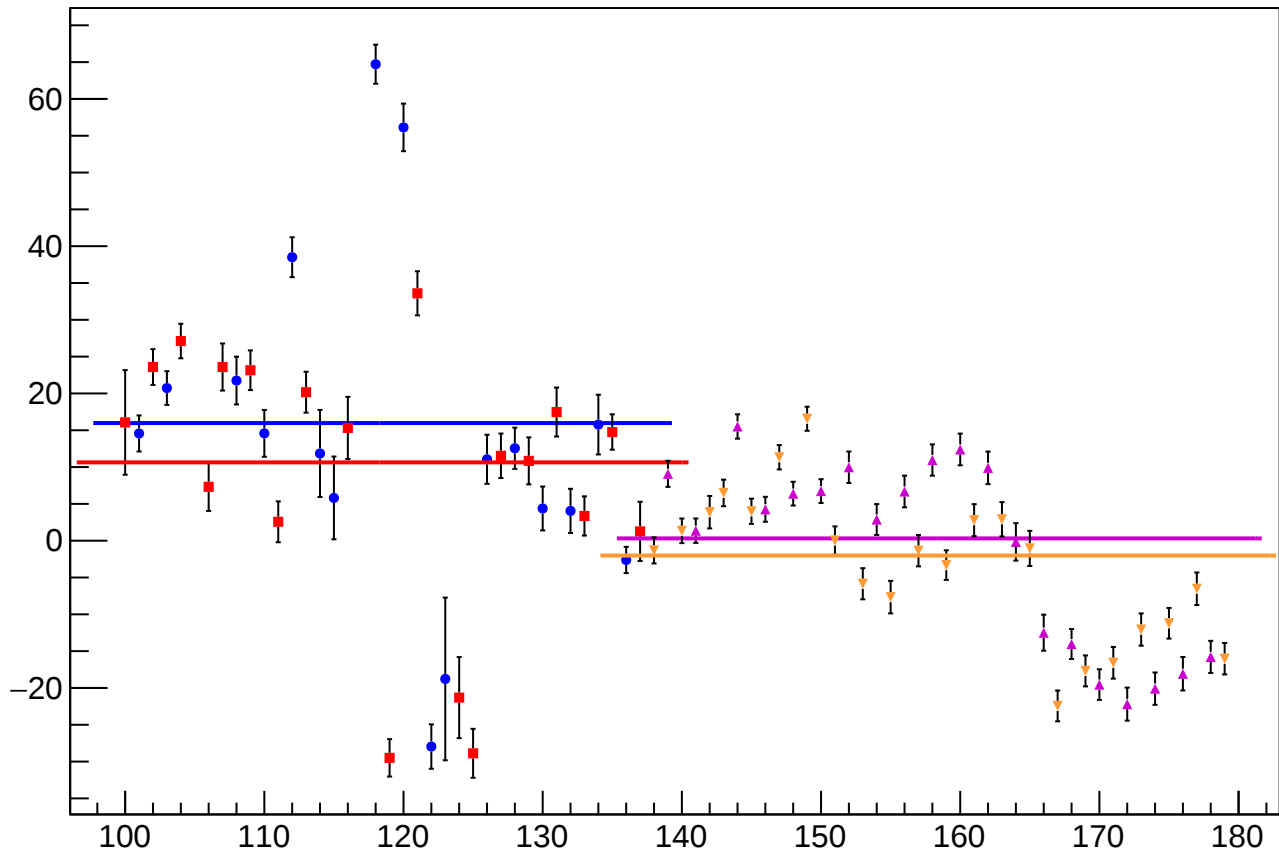
Right: 1785.358 ± 0.341 $\chi^2/\text{NDF}: 364260.7/35$

In: 1966.621 ± 0.299 $\chi^2/\text{NDF}: 1108956.2/36$

Out: 1946.496 ± 0.286 $\chi^2/\text{NDF}: 1142615.2/40$

All: 1956.102 ± 0.207 $\chi^2/\text{NDF}: 2253932.1/77$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 $\chi^2/\text{NDF}: 938.4/16$

Left Out: -2.014 ± 0.425 $\chi^2/\text{NDF}: 545.7/21$

Right Out: 10.638 ± 0.693 $\chi^2/\text{NDF}: 642.1/18$

Left In: 0.312 ± 0.444 $\chi^2/\text{NDF}: 725.6/19$

Left: -0.903 ± 0.307 $\chi^2/\text{NDF}: 1285.7/41$

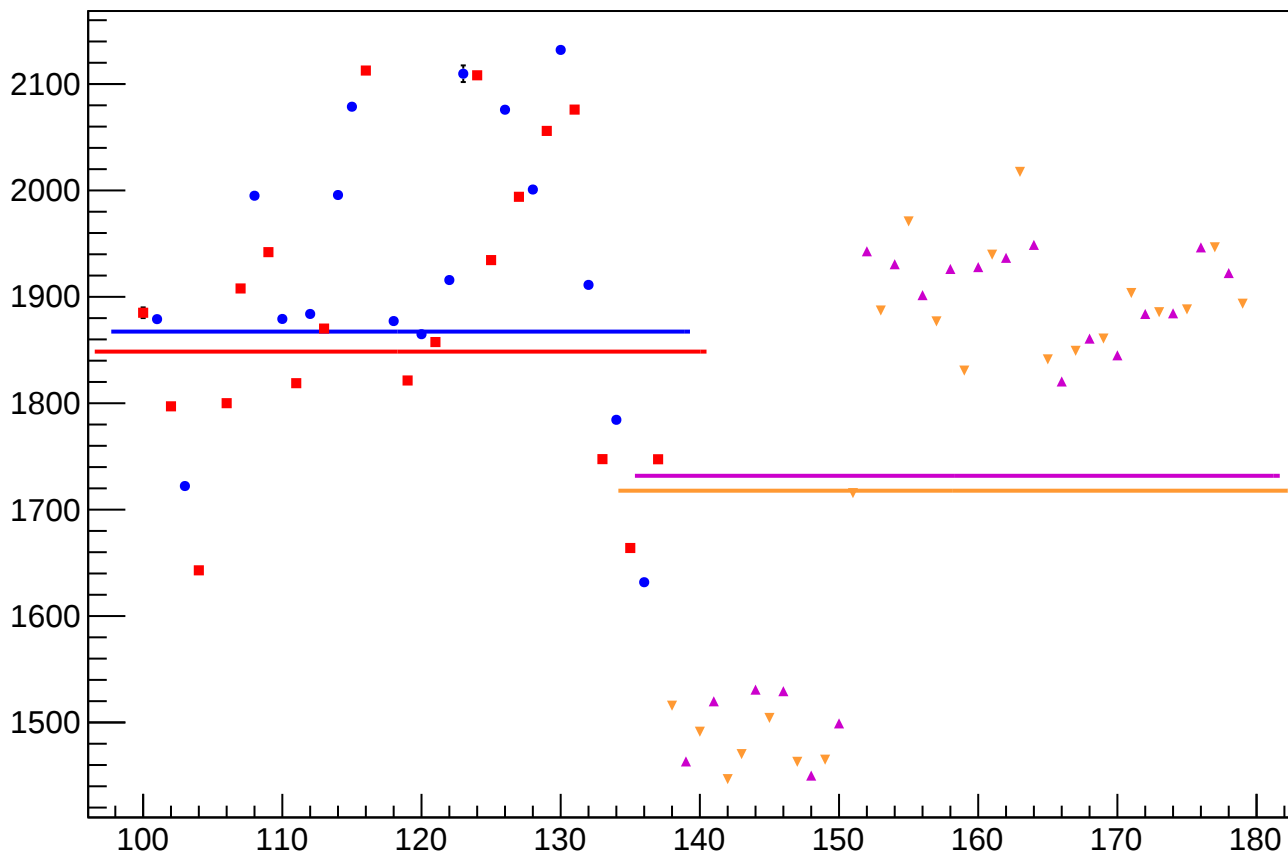
Right: 13.200 ± 0.500 $\chi^2/\text{NDF}: 1608.9/35$

In: 4.614 ± 0.378 $\chi^2/\text{NDF}: 2005.8/36$

Out: 1.439 ± 0.362 $\chi^2/\text{NDF}: 1429.9/40$

All: 2.958 ± 0.262 $\chi^2/\text{NDF}: 3472.4/77$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2 /NDF: 80926.4/16

Left Out: 1717.816 $\pm$ 0.300 χ^2 /NDF: 465005.3/21

Right Out: 1848.532 $\pm$ 0.490 χ^2 /NDF: 72527.3/18

Left In: 1731.819 $\pm$ 0.314 χ^2 /NDF: 422807.3/19

Left: 1724.507 $\pm$ 0.217 χ^2 /NDF: 888851.2/41

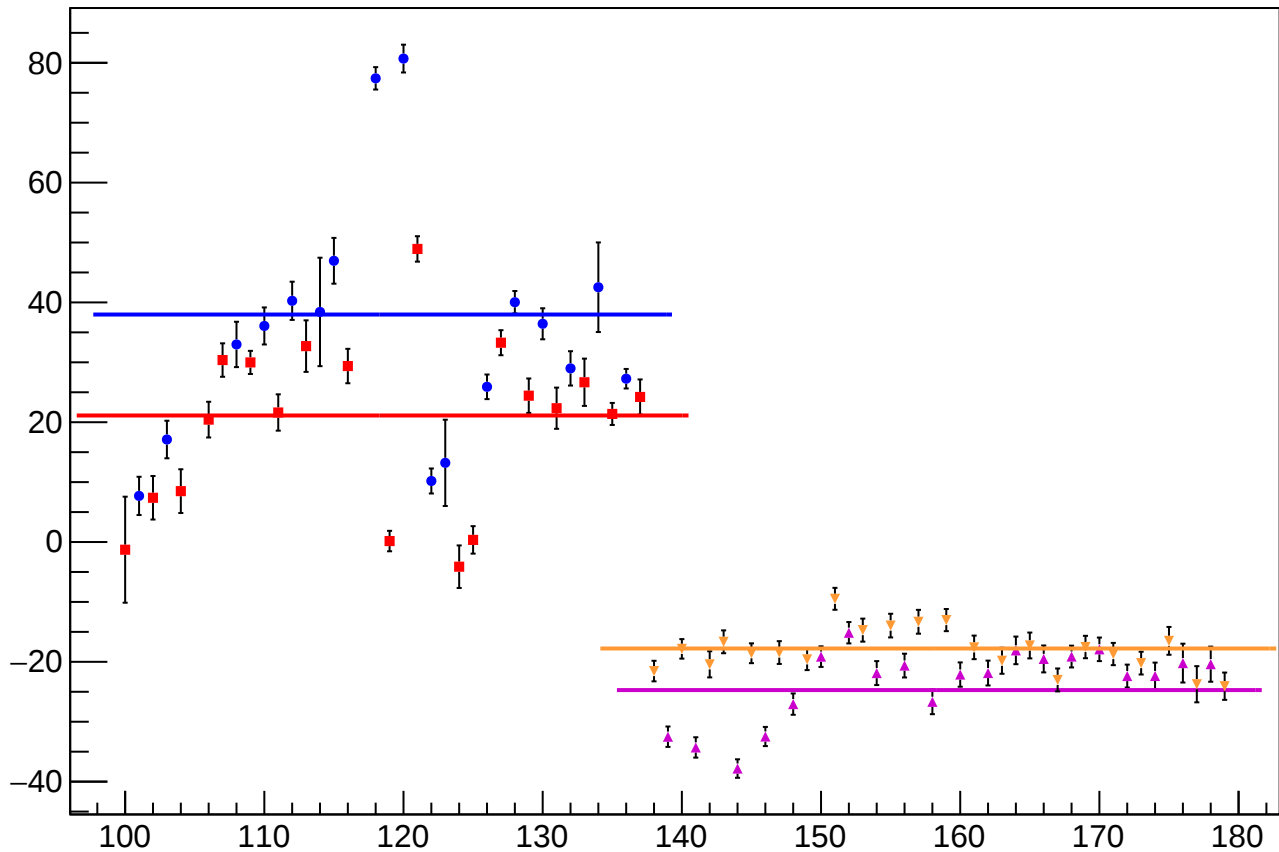
Right: 1857.561 $\pm$ 0.354 χ^2 /NDF: 154160.4/35

In: 1769.042 $\pm$ 0.267 χ^2 /NDF: 554899.6/36

Out: 1753.492 $\pm$ 0.256 χ^2 /NDF: 589217.6/40

All: 1760.932 $\pm$ 0.185 χ^2 /NDF: 1145880.7/77

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.775 ± 0.414 $\chi^2/\text{NDF}: 68.7/21$

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: -21.088 ± 0.300 $\chi^2/\text{NDF}: 444.4/41$

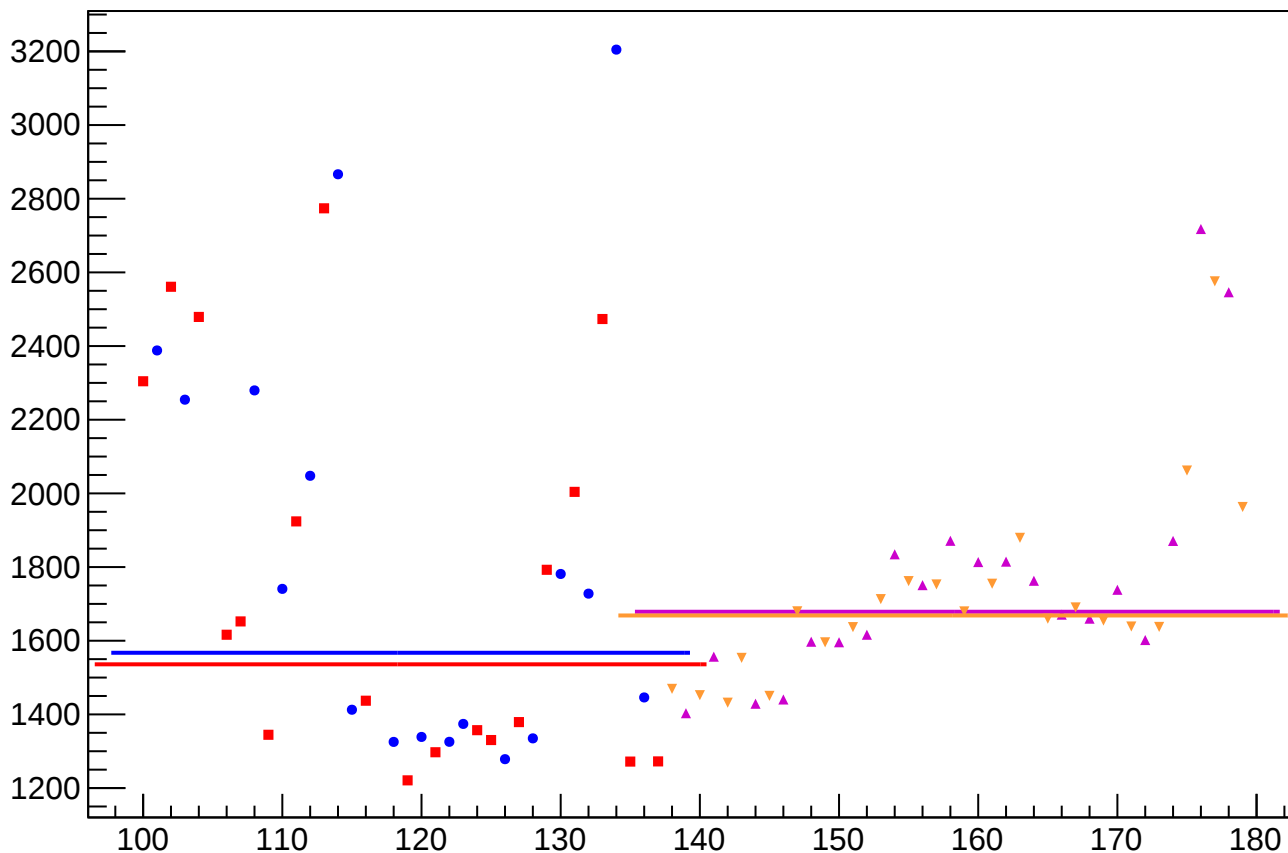
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -4.878 ± 0.359 $\chi^2/\text{NDF}: 8060.3/36$

Out: -5.448 ± 0.342 $\chi^2/\text{NDF}: 3435.4/40$

All: -5.176 ± 0.248 $\chi^2/\text{NDF}: 11496.9/77$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2/NDF : 673450.6/16

Left Out: 1668.575 $\pm$ 0.293 χ^2/NDF : 436610.7/21

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: 1673.393 $\pm$ 0.212 χ^2/NDF : 1060768.9/41

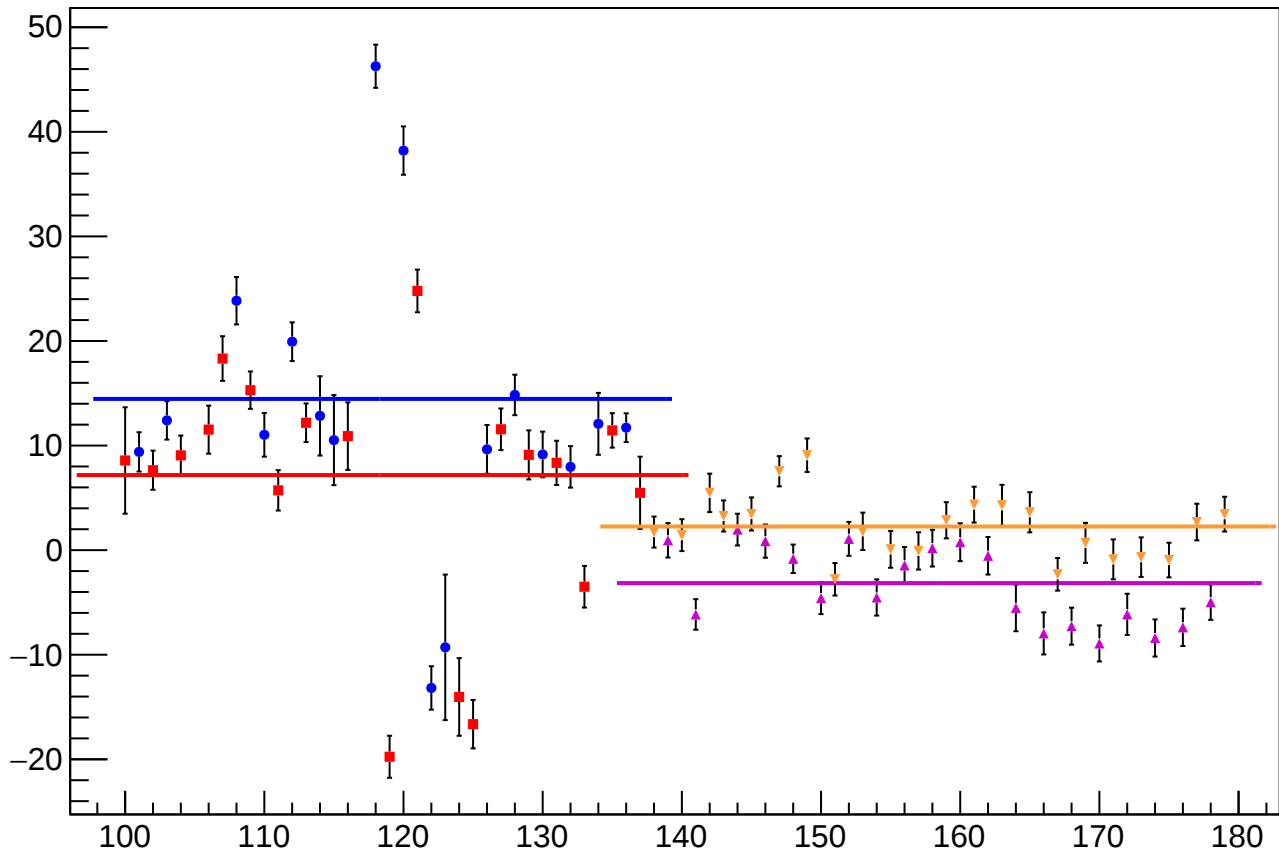
Right: 1550.918 $\pm$ 0.311 χ^2/NDF : 1558082.7/35

In: 1643.439 $\pm$ 0.254 χ^2/NDF : 1338764.0/36

Out: 1626.551 $\pm$ 0.242 χ^2/NDF : 1383624.6/40

All: 1634.608 $\pm$ 0.175 χ^2/NDF : 2724709.0/77

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 ± 0.523 $\chi^2/\text{NDF}: 595.9/16$

Left Out: 2.261 ± 0.359 $\chi^2/\text{NDF}: 71.7/21$

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: -0.294 ± 0.261 $\chi^2/\text{NDF}: 271.0/41$

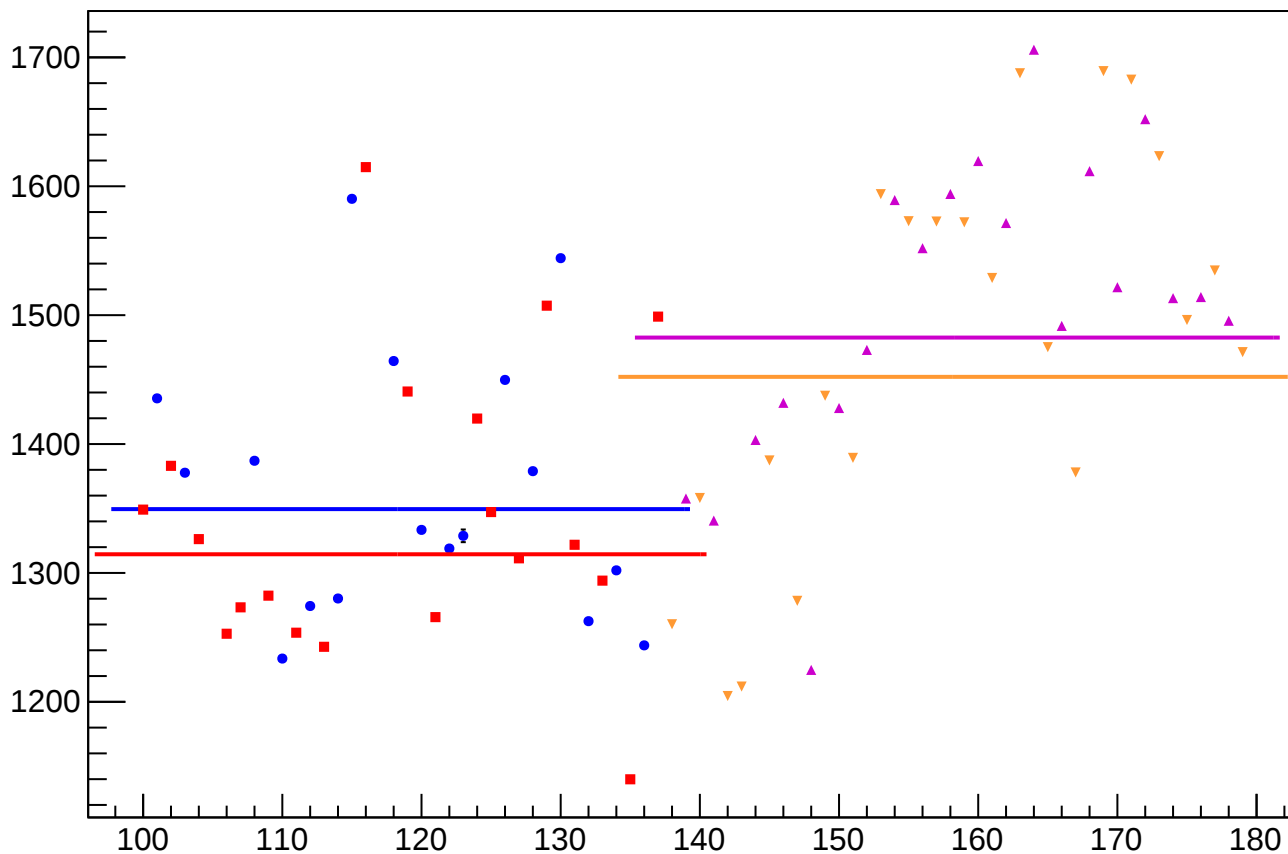
Right: 10.615 ± 0.359 $\chi^2/\text{NDF}: 1193.9/35$

In: 2.919 ± 0.307 $\chi^2/\text{NDF}: 1430.4/36$

Out: 3.959 ± 0.290 $\chi^2/\text{NDF}: 632.2/40$

All: 3.468 ± 0.211 $\chi^2/\text{NDF}: 2068.6/77$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1452.135 $\pm$ 0.254 χ^2 /NDF: 326607.0/21

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: 1466.529 $\pm$ 0.184 χ^2 /NDF: 528684.5/41

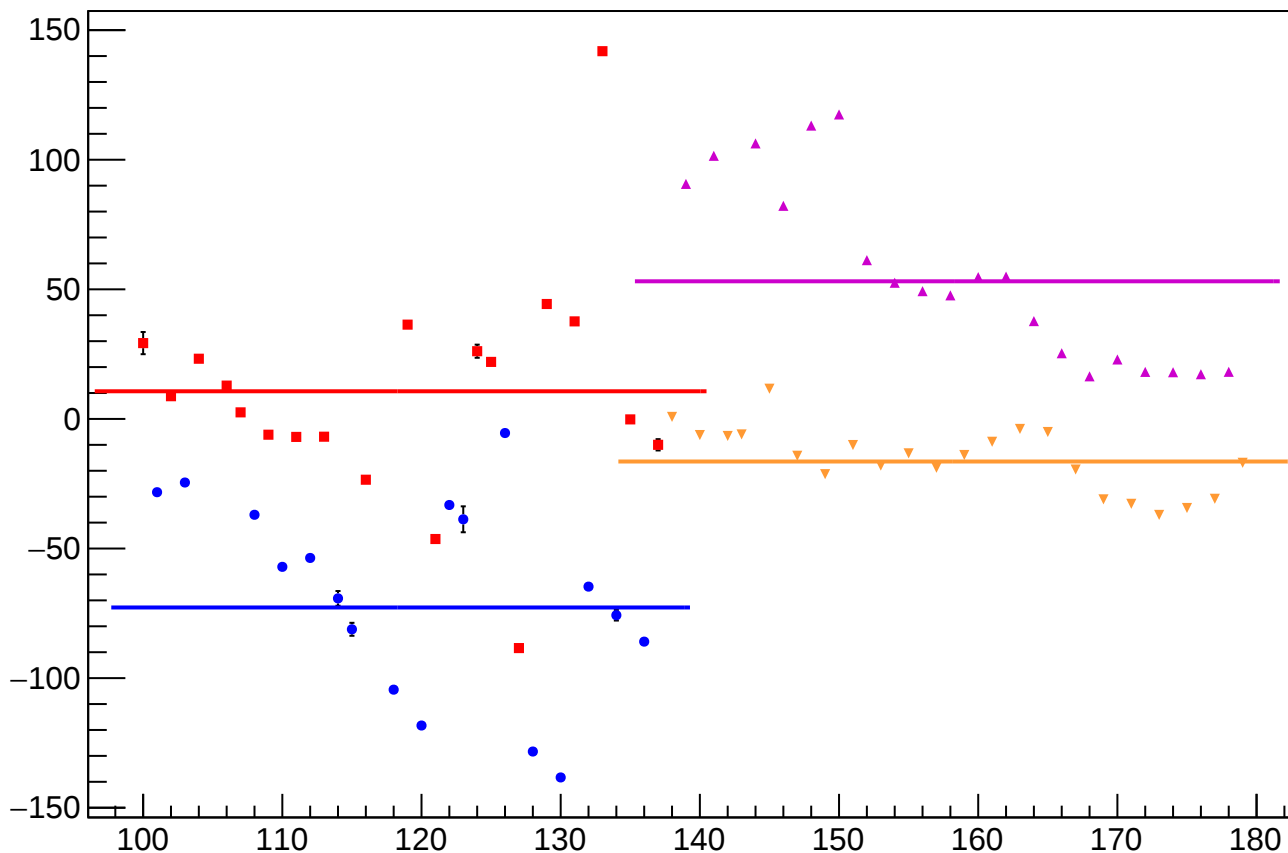
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1436.753 $\pm$ 0.217 χ^2 /NDF: 344754.3/36

Out: 1404.633 $\pm$ 0.205 χ^2 /NDF: 509105.8/40

All: 1419.795 $\pm$ 0.149 χ^2 /NDF: 865409.2/77

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 +/- 0.362 χ^2/NDF : 11690.4/16

Left Out: -16.426 +/- 0.223 χ^2/NDF : 3101.0/21

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: 16.785 +/- 0.161 χ^2/NDF : 70506.2/41

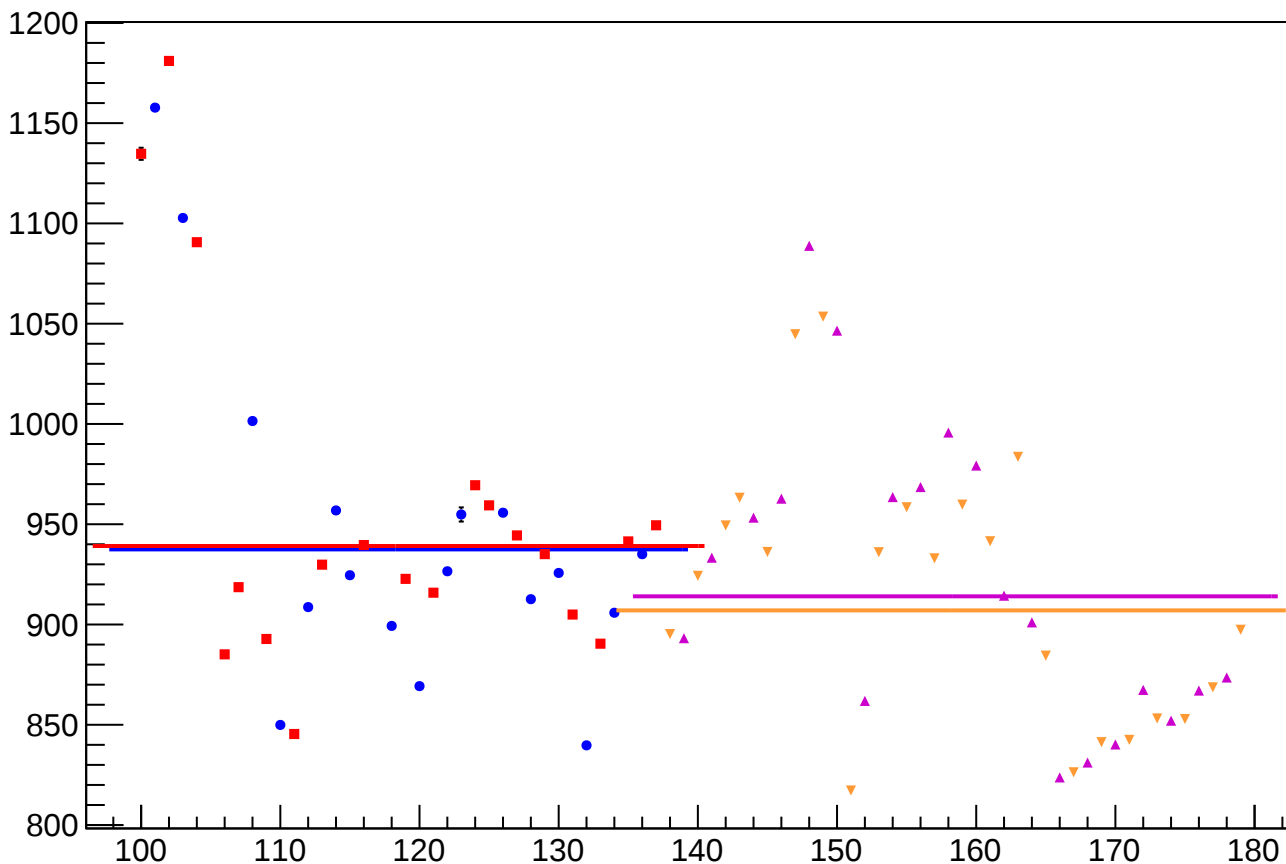
Right: -29.865 +/- 0.253 χ^2/NDF : 57099.2/35

In: 16.186 +/- 0.196 χ^2/NDF : 118000.8/36

Out: -8.663 +/- 0.189 χ^2/NDF : 25492.2/40

All: 3.267 +/- 0.136 χ^2/NDF : 151828.1/77

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 907.037 ± 0.158 χ^2/NDF : 159900.0/21

Right Out: 939.140 ± 0.249 χ^2/NDF : 90253.2/18

Left In: 914.051 ± 0.165 χ^2/NDF : 173368.3/19

Left: 910.387 ± 0.114 χ^2/NDF : 334211.2/41

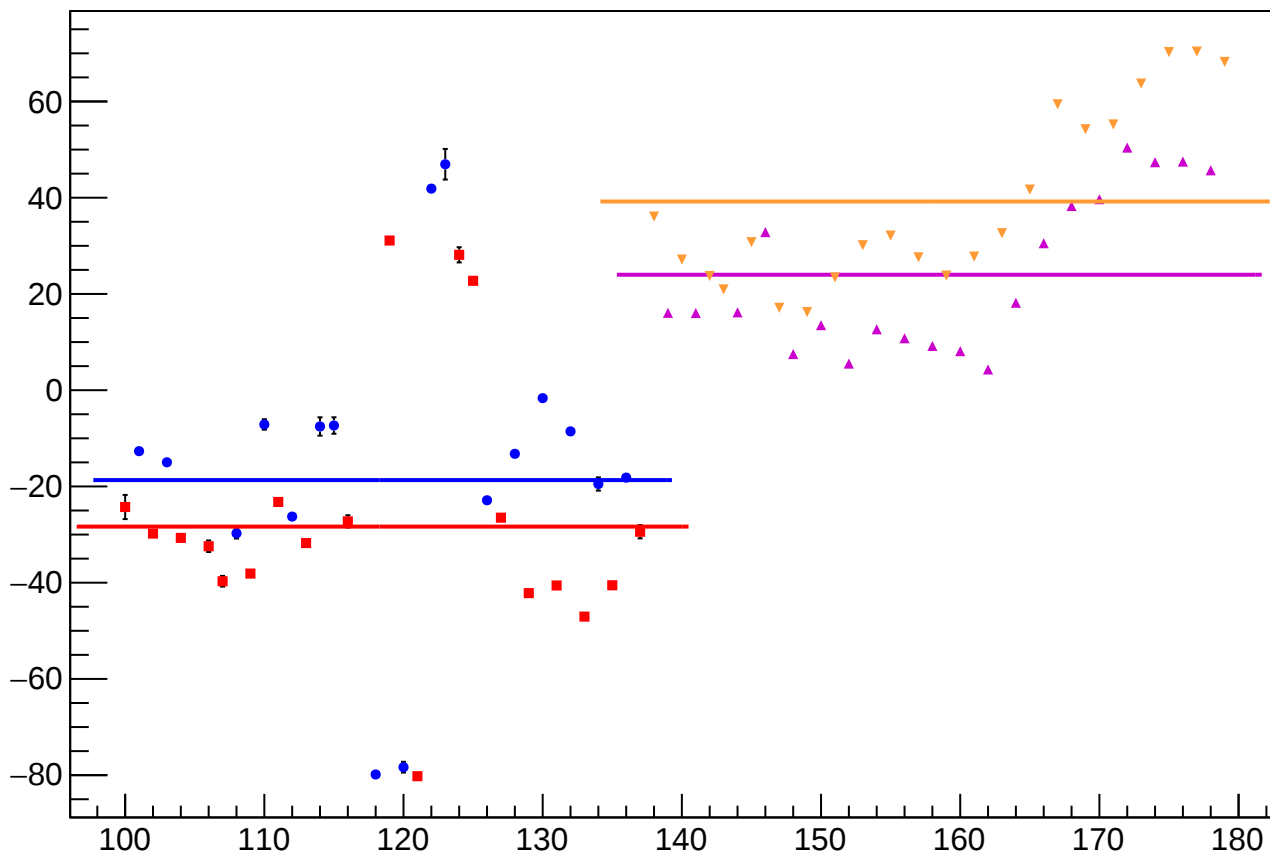
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 920.916 ± 0.139 χ^2/NDF : 277571.2/36

Out: 916.234 ± 0.133 χ^2/NDF : 262000.5/40

All: 918.482 ± 0.096 χ^2/NDF : 540163.3/77

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683±/0.243 χ^2/NDF : 13006.2/16

Left Out: 39.213±/0.176 χ^2/NDF :10737.2/21

Right Out: -28.347±/0.235 χ^2/NDF : 12508.1/18

Left In: 23.992±/0.185 χ^2/NDF :7077.7/19

Left: 31.966±/0.128 χ^2/NDF : 21362.8/41

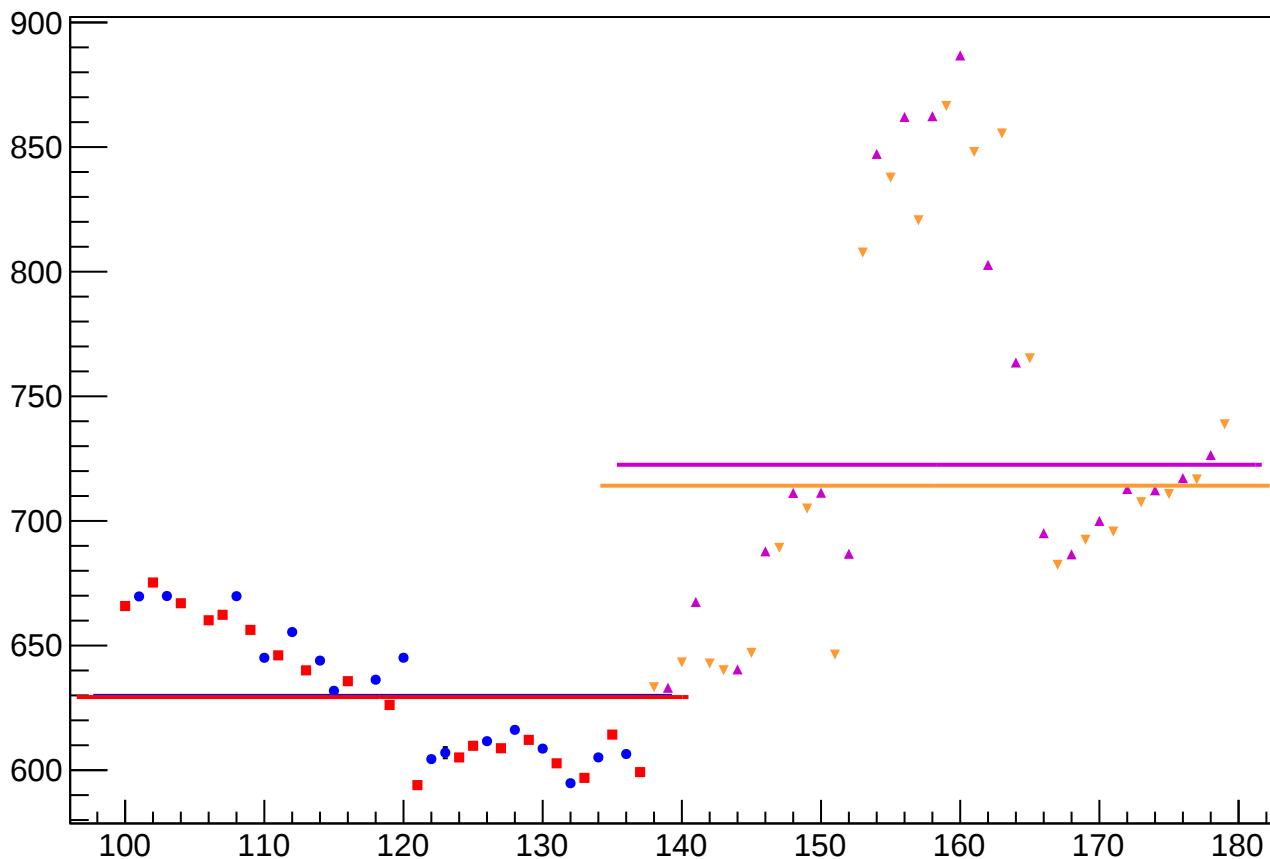
Right: -23.660±/0.169 χ^2/NDF : 26331.1/35

In: 8.309±/0.147 χ^2/NDF :39645.9/36

Out: 14.938±/0.141 χ^2/NDF :75992.7/40

All: 11.761±/0.102 χ^2/NDF : 116696.0/77

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815 $\pm$ 0.172 χ^2/NDF : 23298.3/16

Left Out: 714.151 $\pm$ 0.125 χ^2/NDF : 334162.2/21

Right Out: 629.340 $\pm$ 0.166 χ^2/NDF : 25538.5/18

Left In: 722.543 $\pm$ 0.131 χ^2/NDF : 278321.4/19

Left: 718.146 $\pm$ 0.090 χ^2/NDF : 614640.8/41

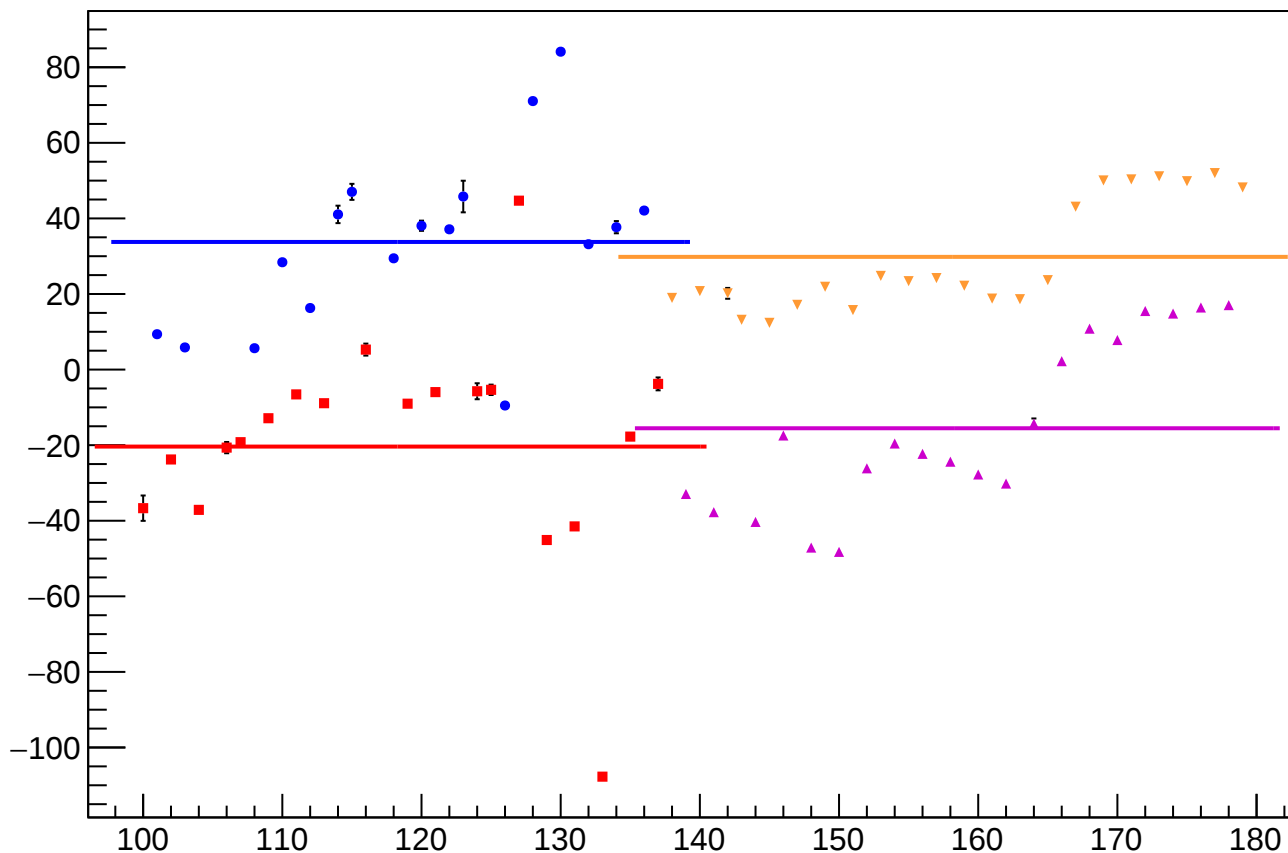
Right: 629.570 $\pm$ 0.119 χ^2/NDF : 48840.7/35

In: 688.466 $\pm$ 0.104 χ^2/NDF : 486345.5/36

Out: 683.677 $\pm$ 0.100 χ^2/NDF : 525948.4/40

All: 685.973 $\pm$ 0.072 χ^2/NDF : 1013397.5/77

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2/NDF : 6487.9/16

Left Out: 29.825+/-0.250 χ^2/NDF : 3361.7/21

Right Out: -20.375+/-0.293 χ^2/NDF : 11287.7/18

Left In: -15.527+/-0.260 χ^2/NDF : 7359.3/19

Left: 8.044+/-0.180 χ^2/NDF : 26486.9/41

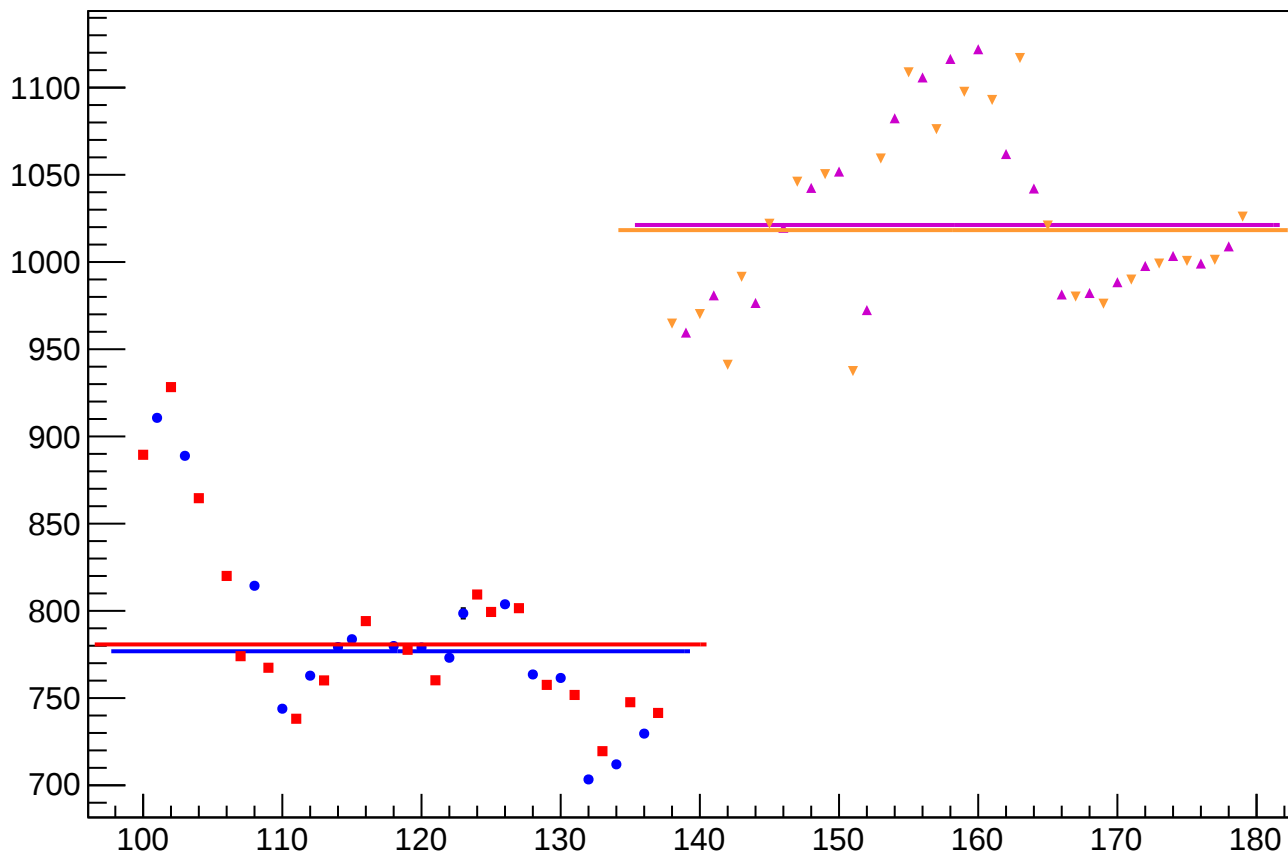
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 5.664+/-0.197 χ^2/NDF : 29255.3/36

Out: 8.605+/-0.190 χ^2/NDF : 31650.5/40

All: 7.184+/-0.137 χ^2/NDF : 61021.5/77

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1018.282 $\pm$ 0.177 χ^2 /NDF: 83116.3/21

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: 1019.702 $\pm$ 0.128 χ^2 /NDF: 152049.5/41

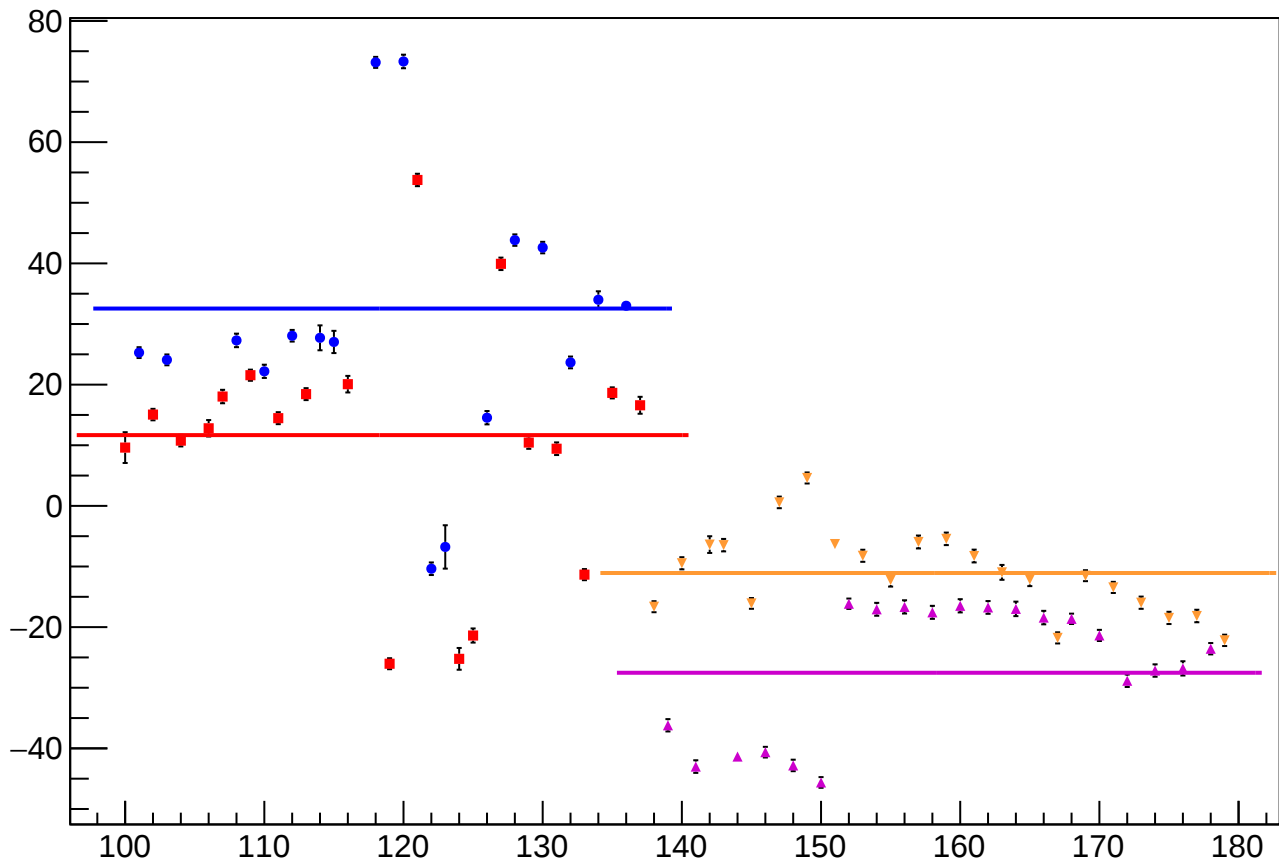
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 916.185 $\pm$ 0.139 χ^2 /NDF: 893623.6/36

Out: 917.879 $\pm$ 0.134 χ^2 /NDF: 901816.1/40

All: 917.060 $\pm$ 0.097 χ^2 /NDF: 1795516.4/77

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 ± 0.253 χ^2/NDF : 6073.0/16

Left Out: -11.071 ± 0.211 χ^2/NDF : 1059.2/21

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: -18.945 ± 0.153 χ^2/NDF : 6418.6/41

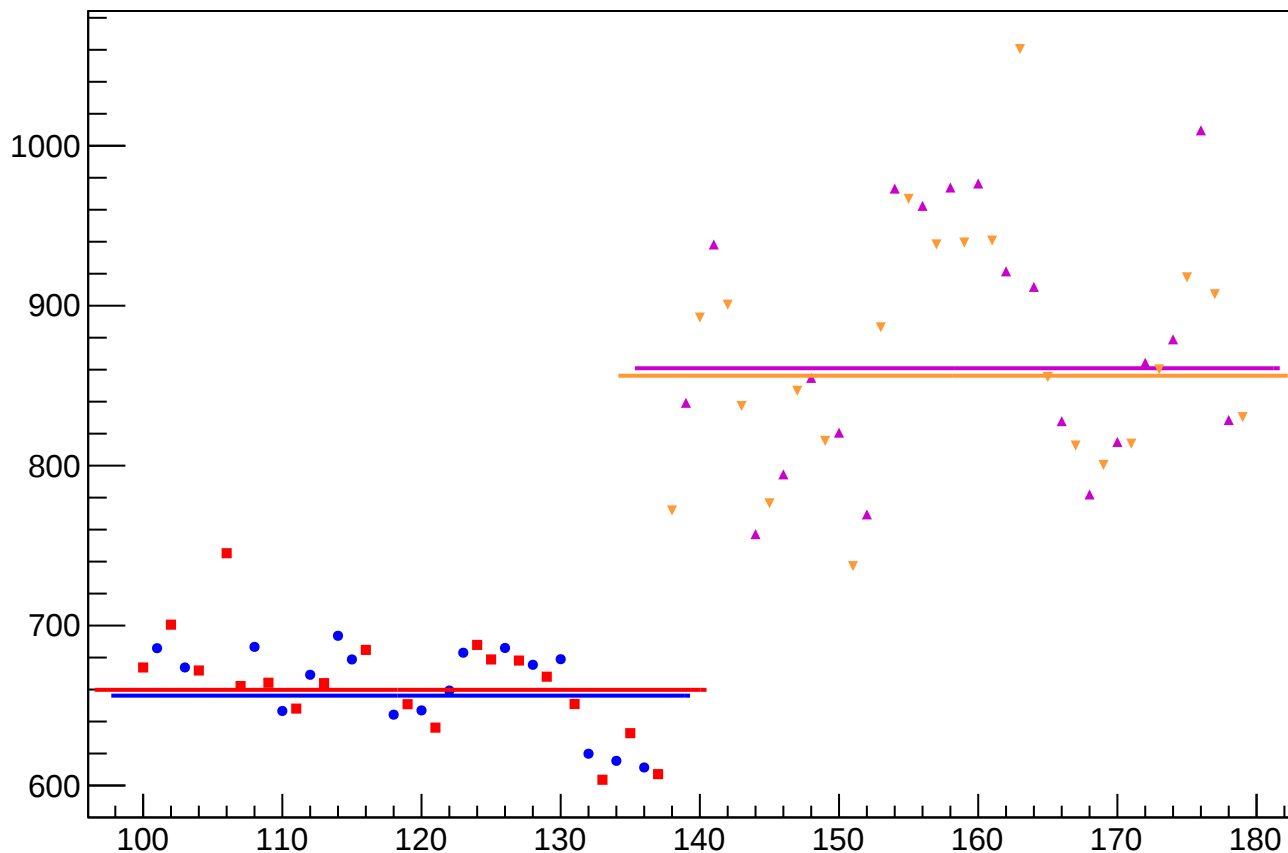
Right: 21.868 ± 0.177 χ^2/NDF : 15919.4/35

In: -1.558 ± 0.166 χ^2/NDF : 40582.0/36

Out: -1.457 ± 0.161 χ^2/NDF : 12312.4/40

All: -1.506 ± 0.115 χ^2/NDF : 52894.6/77

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 $\pm$ 0.179 χ^2 /NDF: 23569.6/16

Left Out: 856.217 $\pm$ 0.149 χ^2 /NDF:230642.0/21

Right Out: 659.813 $\pm$ 0.175 χ^2 /NDF: 28325.7/18

Left In: 860.893 $\pm$ 0.156 χ^2 /NDF:234919.0/19

Left: 858.454 $\pm$ 0.108 χ^2 /NDF: 466029.5/41

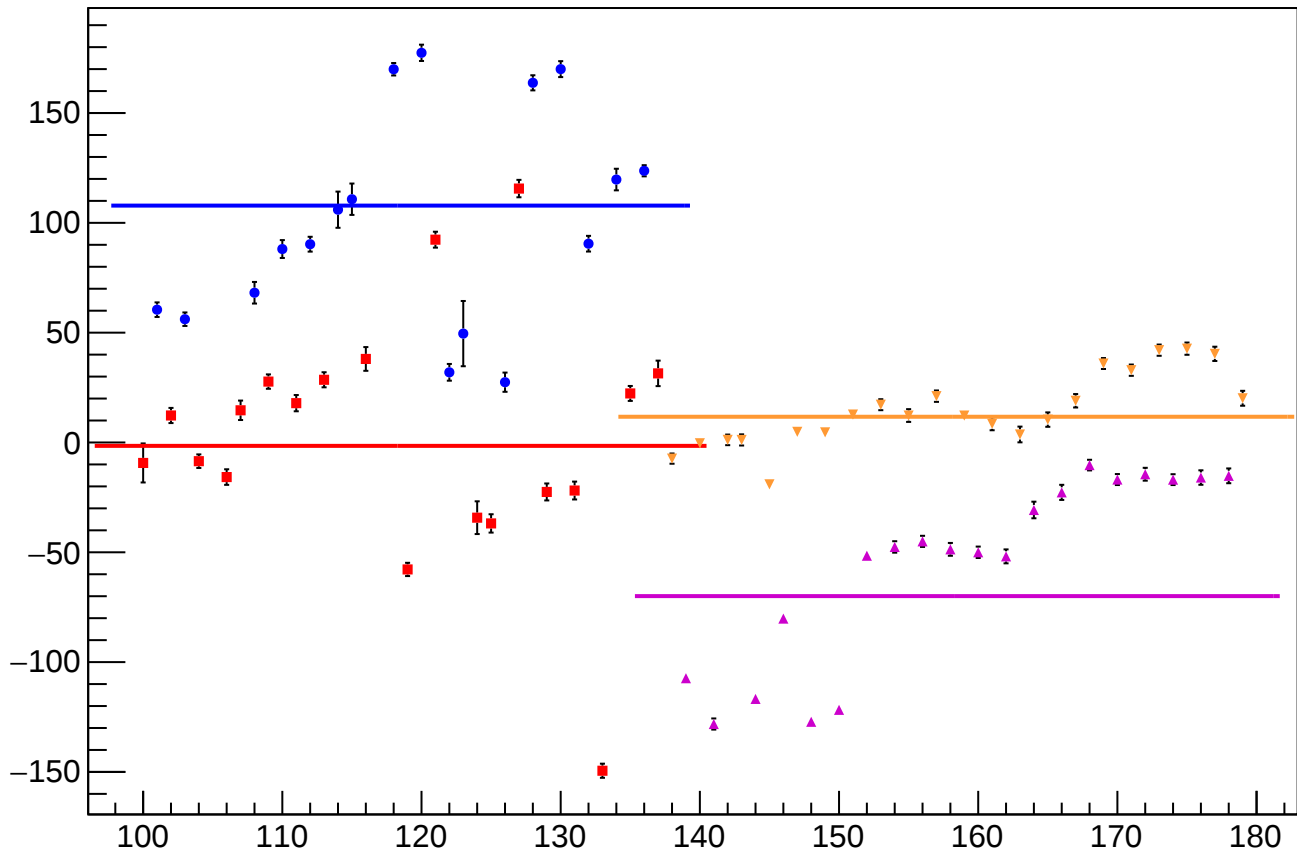
Right: 658.039 $\pm$ 0.125 χ^2 /NDF: 52106.5/35

In: 772.403 $\pm$ 0.118 χ^2 /NDF:1002691.9/36

Out: 773.200 $\pm$ 0.114 χ^2 /NDF:989063.0/40

All: 772.815 $\pm$ 0.082 χ^2 /NDF: 1991778.7/77

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 ± 0.922 χ^2/NDF : 2809.0/16

Left Out: 11.712 ± 0.526 χ^2/NDF : 936.2/21

Right Out: -1.542 ± 0.883 χ^2/NDF : 4523.8/18

Left In: -69.952 ± 0.540 χ^2/NDF : 6443.8/19

Left: -28.024 ± 0.377 χ^2/NDF : 19120.1/41

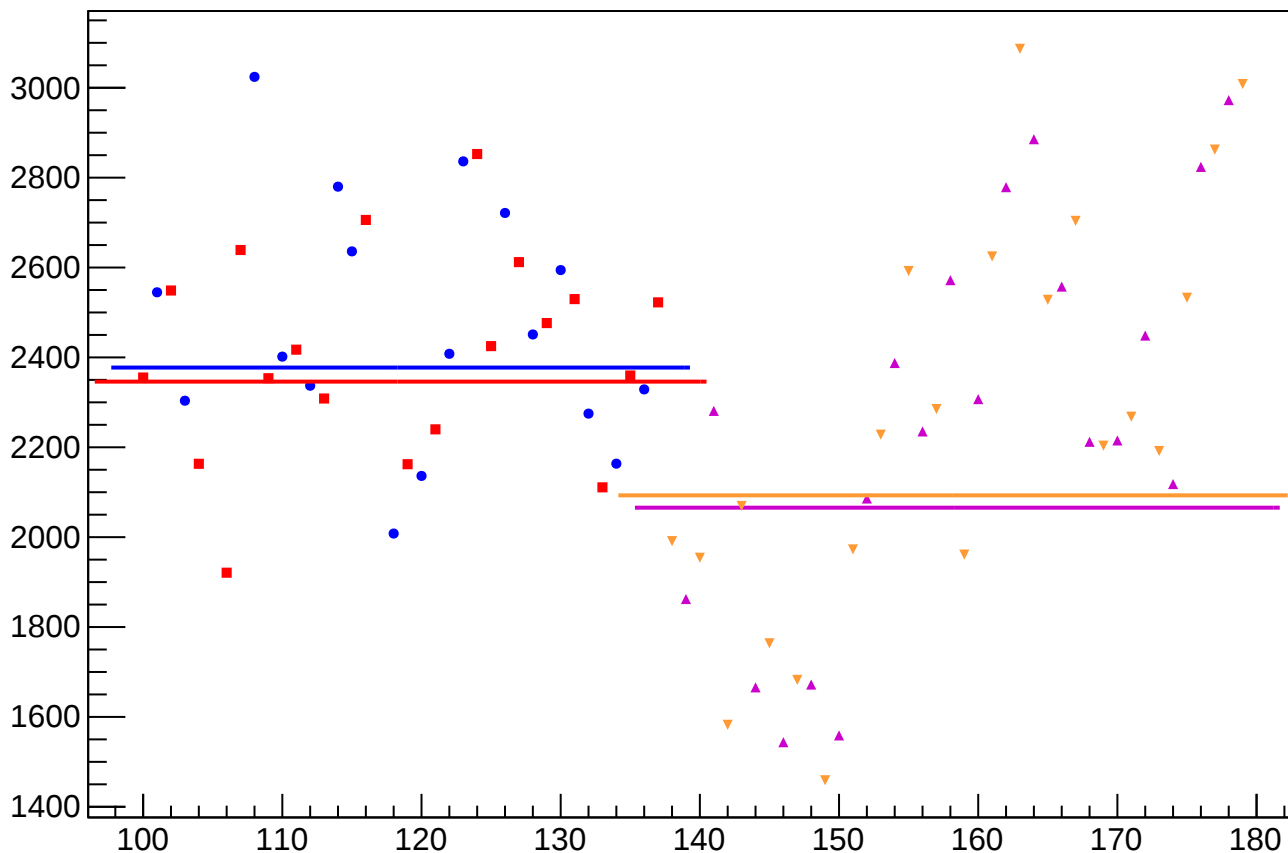
Right: 50.839 ± 0.638 χ^2/NDF : 14676.8/35

In: -24.498 ± 0.466 χ^2/NDF : 36963.1/36

Out: 8.245 ± 0.452 χ^2/NDF : 5626.2/40

All: -7.621 ± 0.324 χ^2/NDF : 45134.8/77

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423 ± 0.652 $\chi^2/\text{NDF}: 119648.6/16$

Left Out: 2093.042 ± 0.372 $\chi^2/\text{NDF}: 1294246.2/21$

Right Out: 2346.121 ± 0.625 $\chi^2/\text{NDF}: 108257.3/18$

Left In: 2065.605 ± 0.382 $\chi^2/\text{NDF}: 1235350.8/19$

Left: 2079.692 ± 0.266 $\chi^2/\text{NDF}: 2532247.3/41$

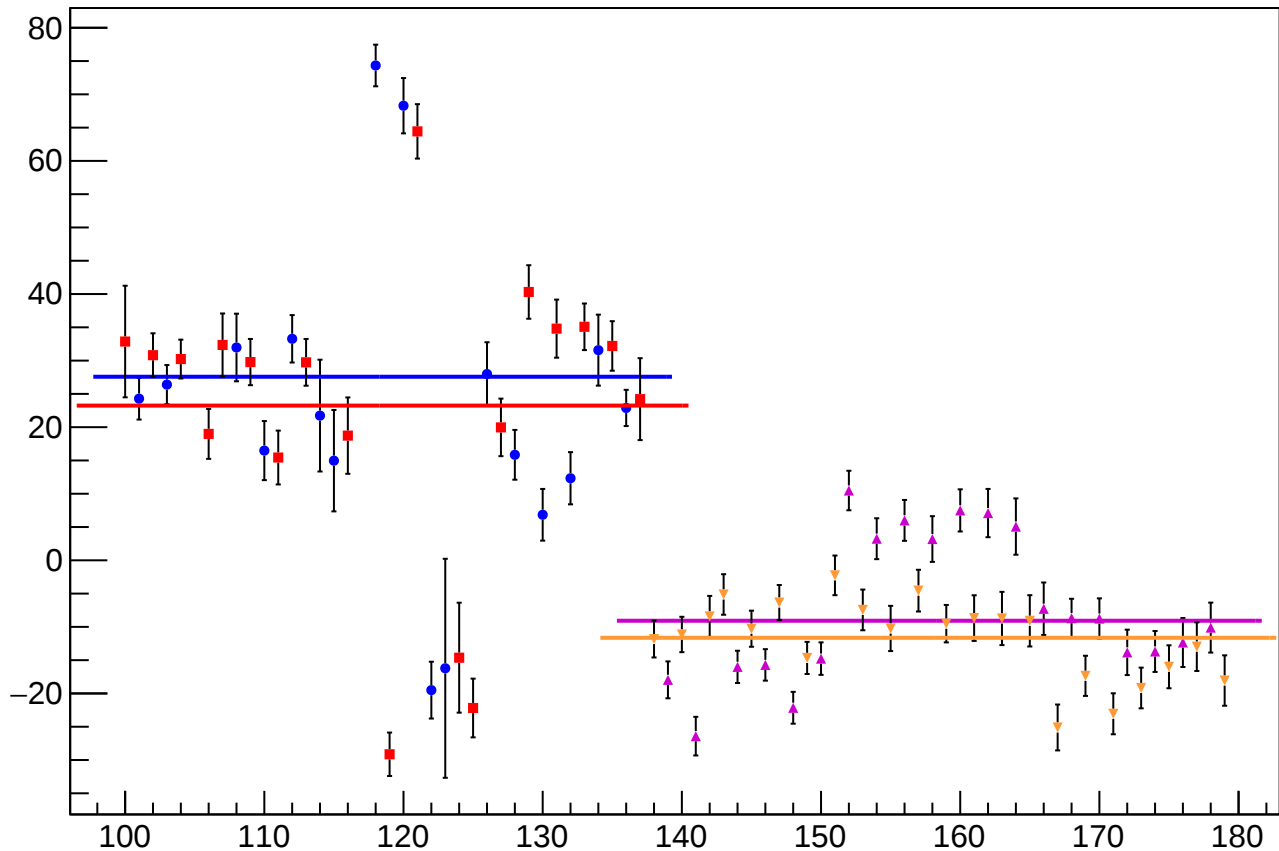
Right: 2361.109 ± 0.451 $\chi^2/\text{NDF}: 229108.5/35$

In: 2145.318 ± 0.329 $\chi^2/\text{NDF}: 1525446.8/36$

Out: 2159.245 ± 0.319 $\chi^2/\text{NDF}: 1523734.4/40$

All: 2152.496 ± 0.229 $\chi^2/\text{NDF}: 3050102.2/77$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -11.640 ± 0.654 $\chi^2/\text{NDF}: 74.5/21$

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: -10.395 ± 0.469 $\chi^2/\text{NDF}: 339.4/41$

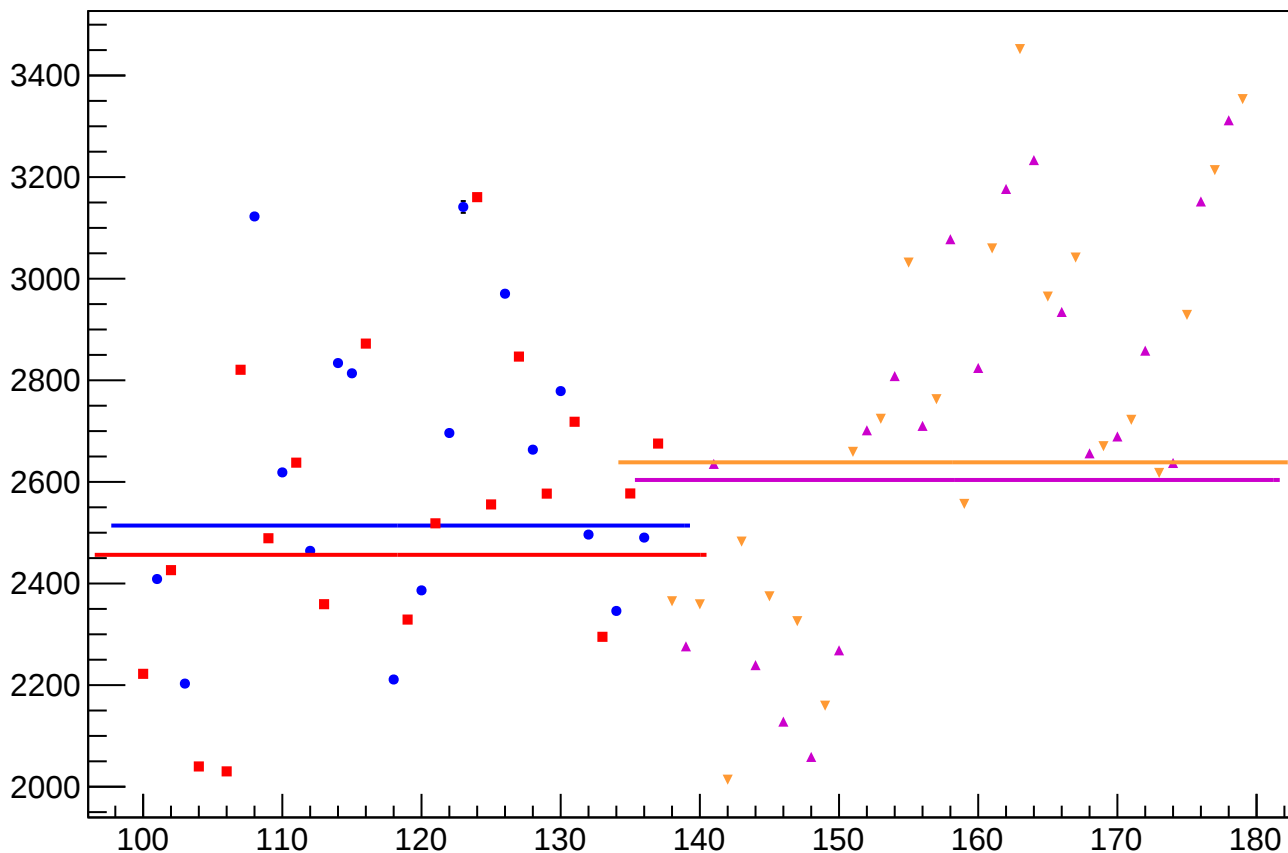
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 2.744 ± 0.554 $\chi^2/\text{NDF}: 1735.0/36$

Out: -0.039 ± 0.535 $\chi^2/\text{NDF}: 1577.5/40$

All: 1.304 ± 0.385 $\chi^2/\text{NDF}: 3325.6/77$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088 $\pm$ 0.689 χ^2 /NDF: 120961.3/16

Left Out: 2638.556 $\pm$ 0.463 χ^2 /NDF: 582154.1/21

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: 2621.668 $\pm$ 0.332 χ^2 /NDF: 1179727.0/41

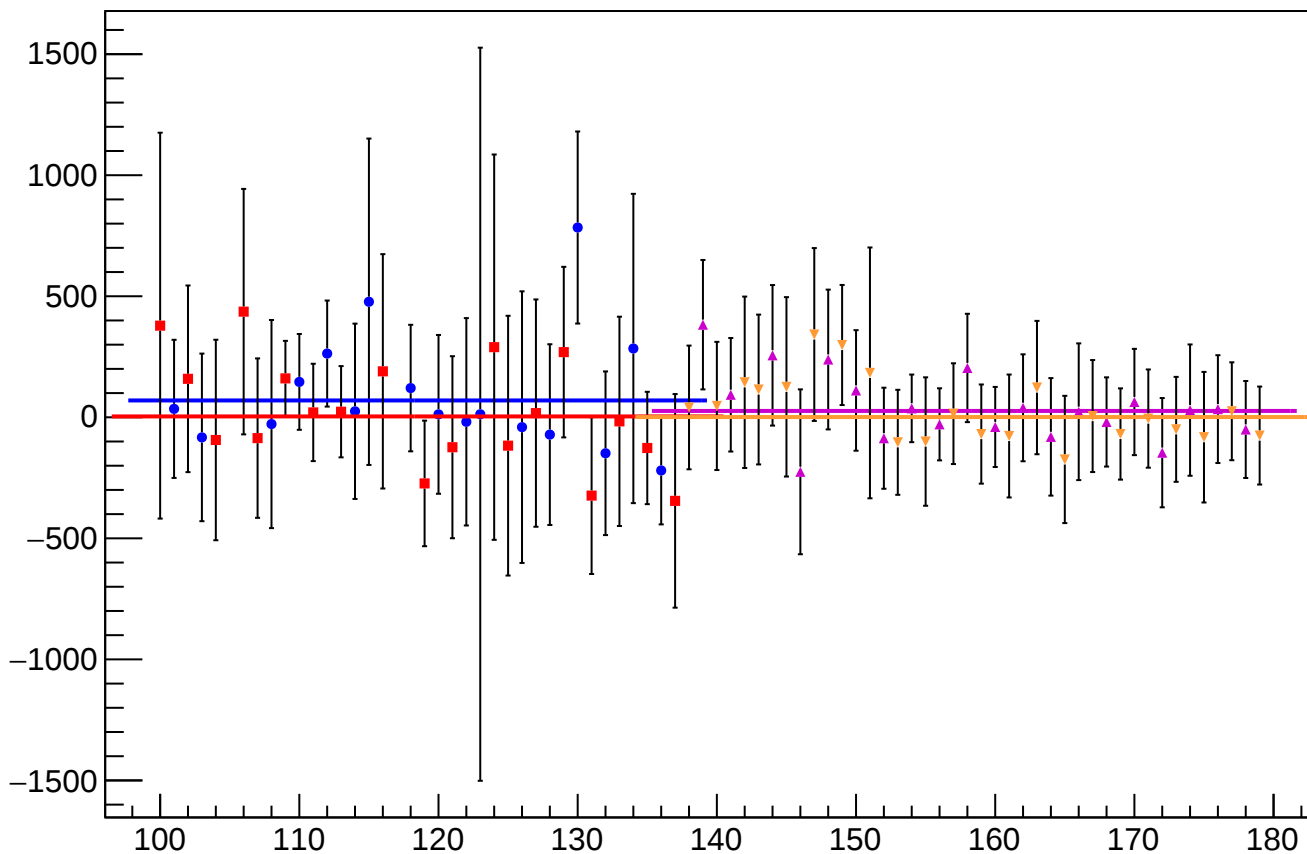
Right: 2483.827 $\pm$ 0.475 χ^2 /NDF: 274364.7/35

In: 2574.882 $\pm$ 0.391 χ^2 /NDF: 727277.5/36

Out: 2577.998 $\pm$ 0.378 χ^2 /NDF: 783395.8/40

All: 2576.494 $\pm$ 0.272 χ^2 /NDF: 1510706.1/77

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: 0.982 $\pm$ 52.433 χ^2 /NDF:4.6/21

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: 14.752 $\pm$ 35.380 χ^2 /NDF: 10.7/41

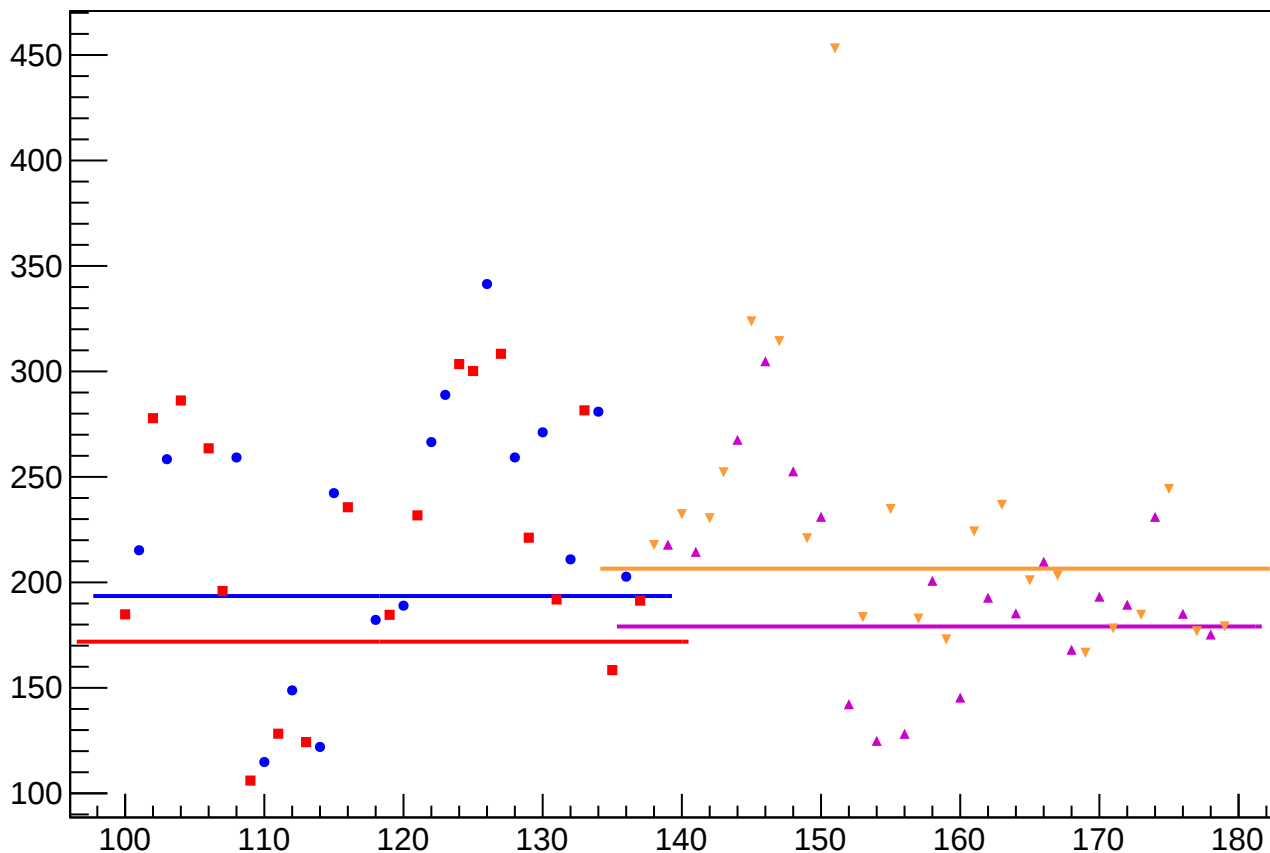
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 37.916 $\pm$ 40.986 χ^2 /NDF:13.5/36

Out: 1.910 $\pm$ 41.961 χ^2 /NDF:11.0/40

All: 20.336 $\pm$ 29.320 χ^2 /NDF: 24.9/77

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533 $\pm$ 0.056 χ^2 /NDF: 1010428.2/16

Left Out: 206.518 $\pm$ 0.037 χ^2 /NDF:1346017.4/21

Right Out: 171.901 $\pm$ 0.049 χ^2 /NDF: 1576883.7/18

Left In: 179.094 $\pm$ 0.034 χ^2 /NDF:1590211.2/19

Left: 191.581 $\pm$ 0.025 χ^2 /NDF: 3234241.2/41

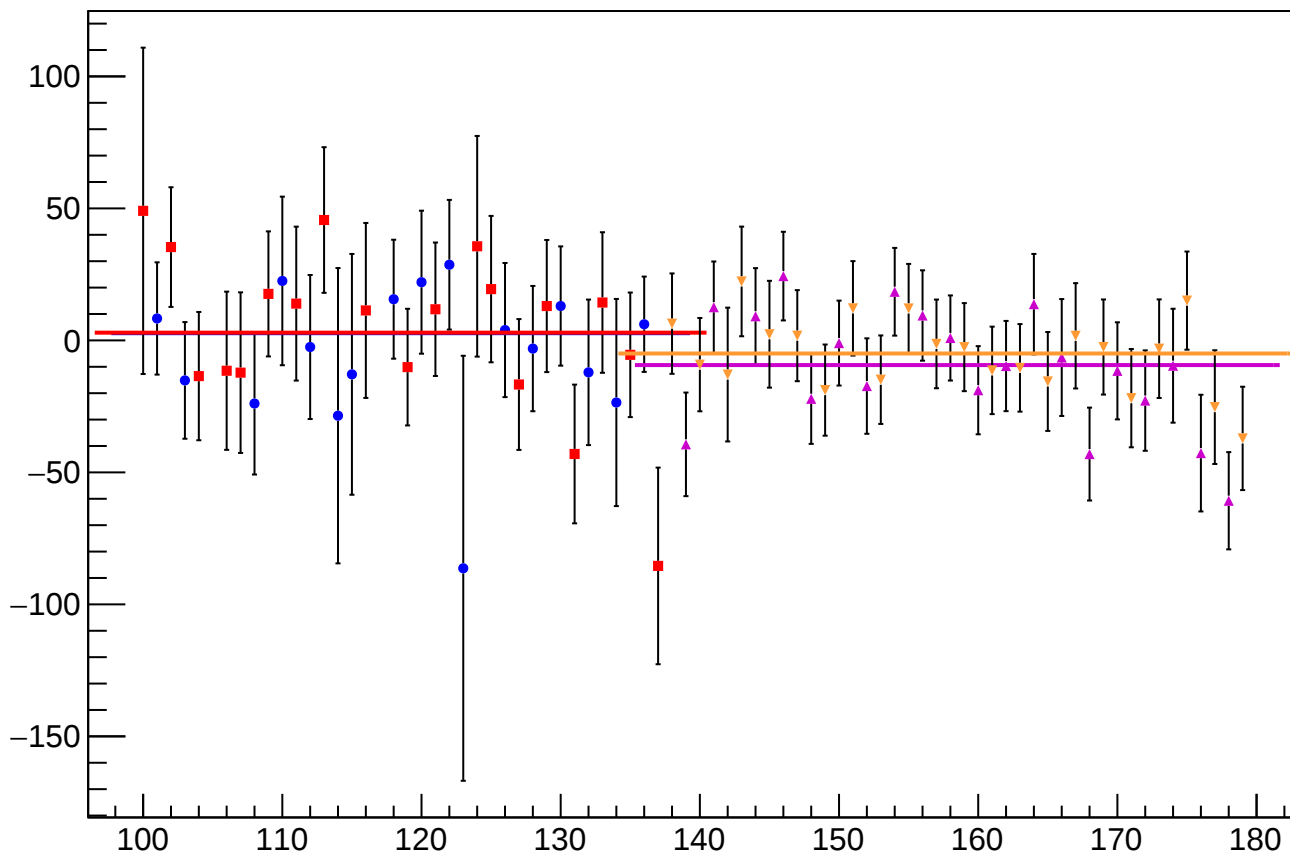
Right: 181.409 $\pm$ 0.037 χ^2 /NDF: 2671312.8/35

In: 182.978 $\pm$ 0.029 χ^2 /NDF:2649446.4/36

Out: 194.072 $\pm$ 0.030 χ^2 /NDF:3236354.5/40

All: 188.395 $\pm$ 0.021 χ^2 /NDF: 5957334.8/77

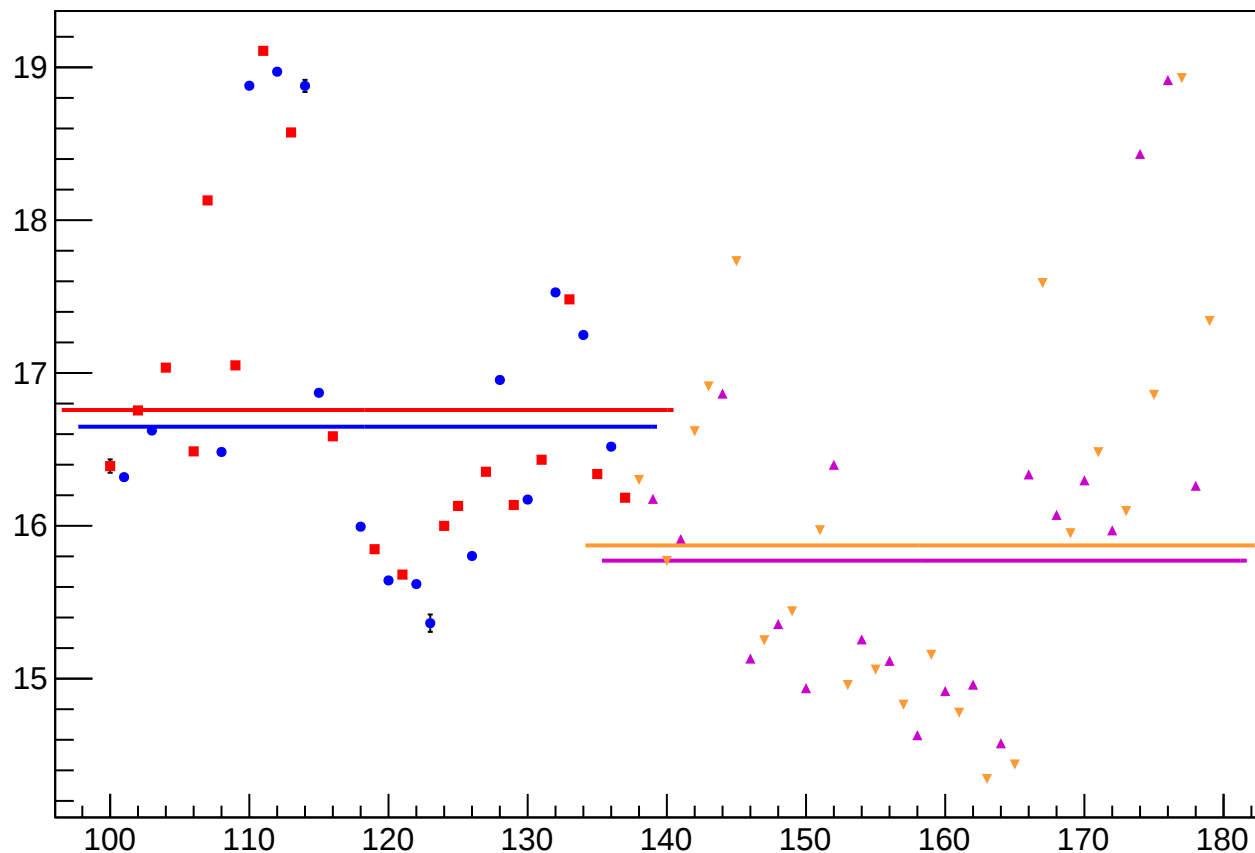
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 $\pm$ 6.424 χ^2 /NDF: 6.8/16
 Left Out: -4.964 $\pm$ 3.908 χ^2 /NDF:11.8/21
 Right Out: 2.928 $\pm$ 6.279 χ^2 /NDF: 17.8/18
 Left In: -9.353 $\pm$ 4.028 χ^2 /NDF:30.5/19

Left: -7.092 $\pm$ 2.805 χ^2 /NDF: 42.9/41
 Right: 2.833 $\pm$ 4.490 χ^2 /NDF: 24.5/35
 In: -5.942 $\pm$ 3.413 χ^2 /NDF:39.8/36
 Out: -2.760 $\pm$ 3.318 χ^2 /NDF:30.7/40
 All: -4.306 $\pm$ 2.379 χ^2 /NDF: 71.0/77

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.649 $\pm$ 0.005 χ^2 /NDF: 42566.9/16

Left Out: 15.872 $\pm$ 0.003 χ^2 /NDF:162467.5/21

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.772 $\pm$ 0.003 χ^2 /NDF:128624.0/19

Left: 15.823 $\pm$ 0.002 χ^2 /NDF: 291720.6/41

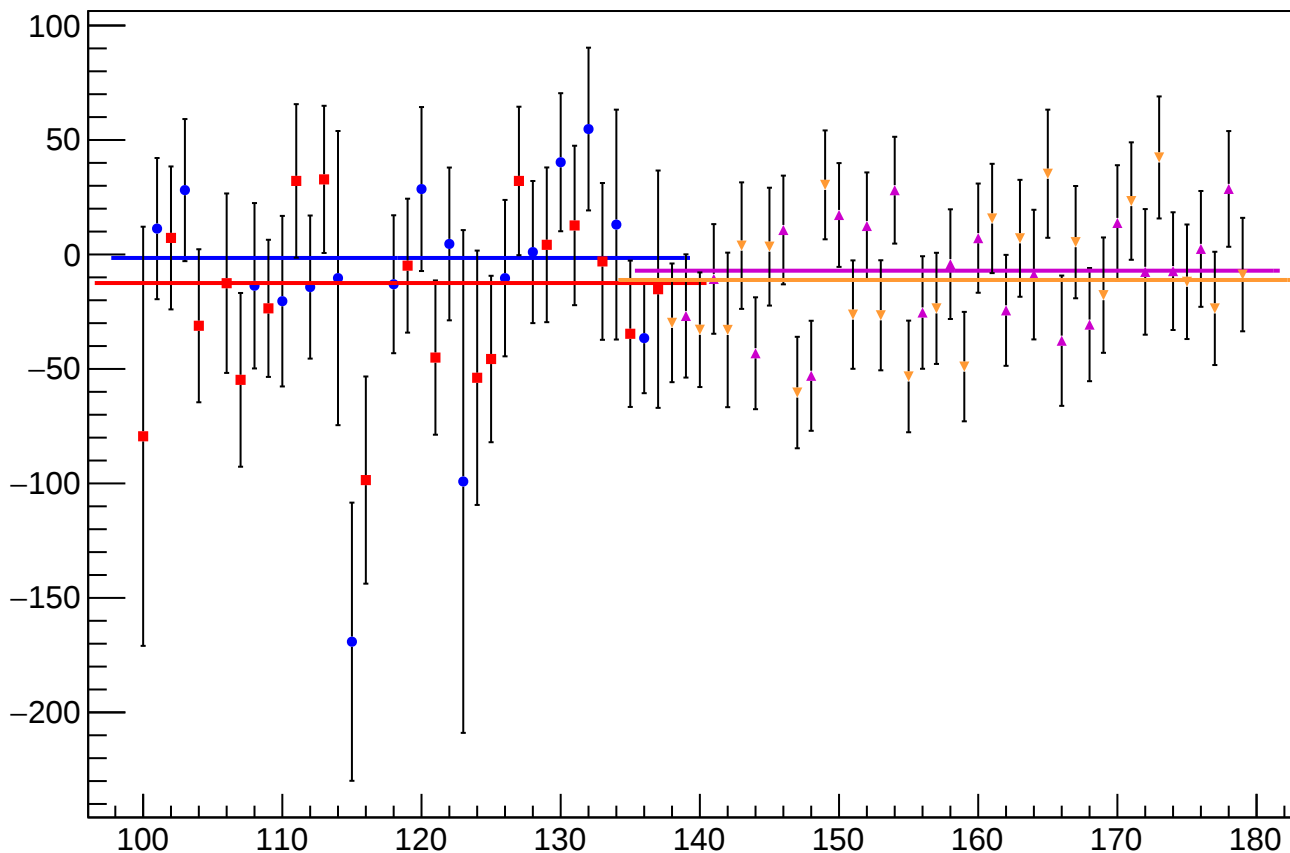
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 16.019 $\pm$ 0.002 χ^2 /NDF:197908.5/36

Out: 16.119 $\pm$ 0.002 χ^2 /NDF:231124.6/40

All: 16.071 $\pm$ 0.002 χ^2 /NDF: 429909.7/77

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.523 ± 8.485 χ^2/NDF : 17.6/16

Left Out: -11.142 ± 5.386 χ^2/NDF : 27.2/21

Right Out: -12.475 ± 8.210 χ^2/NDF : 15.6/18

Left In: -7.084 ± 5.552 χ^2/NDF : 17.4/19

Left: -9.175 ± 3.866 χ^2/NDF : 44.8/41

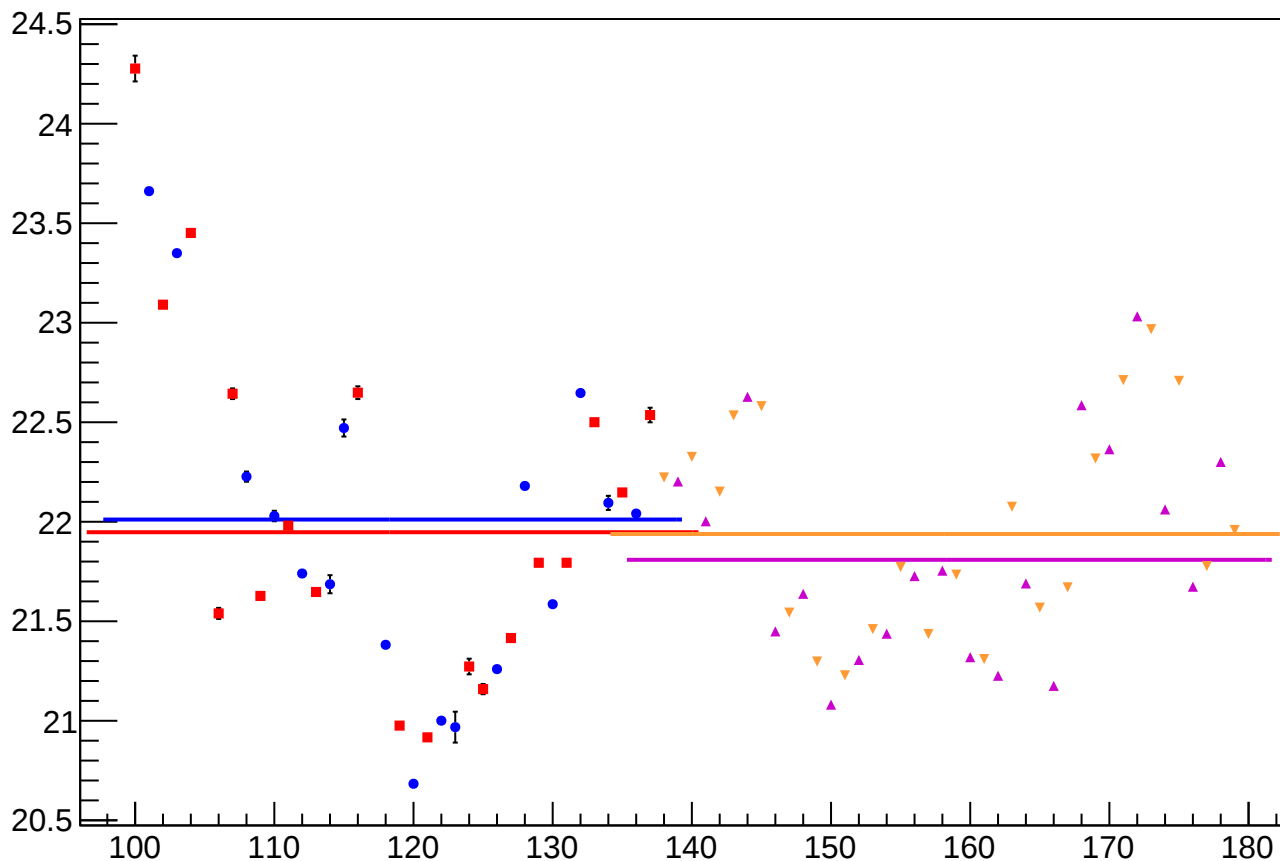
Right: -7.179 ± 5.900 χ^2/NDF : 34.1/35

In: -5.417 ± 4.646 χ^2/NDF : 35.3/36

Out: -11.543 ± 4.503 χ^2/NDF : 42.8/40

All: -8.576 ± 3.234 χ^2/NDF : 79.0/77

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: 21.939 ± 0.004 χ^2/NDF : 17904.0/21

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: 21.876 ± 0.003 χ^2/NDF : 36311.6/41

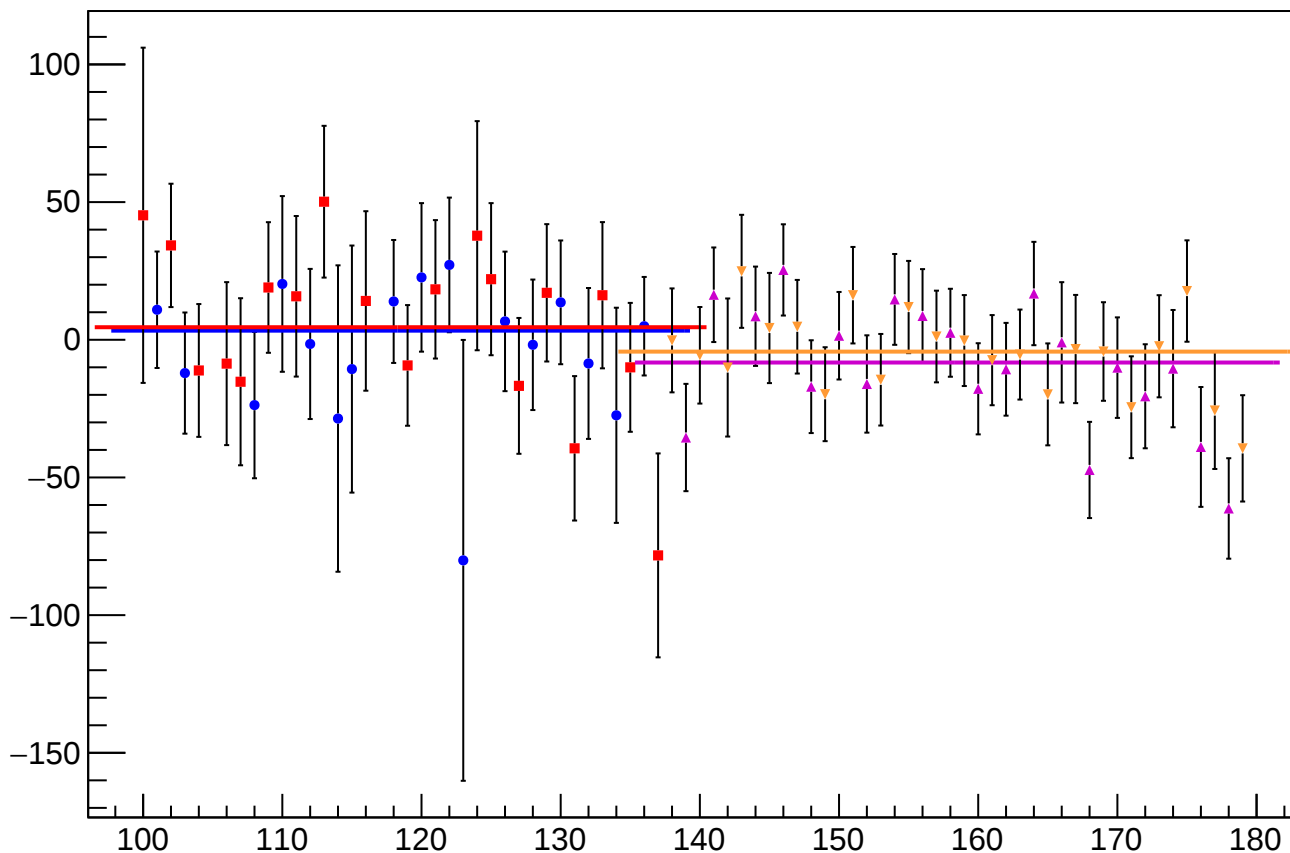
Right: 21.978 ± 0.004 χ^2/NDF : 34197.9/35

In: 21.870 ± 0.003 χ^2/NDF : 36188.2/36

Out: 21.941 ± 0.003 χ^2/NDF : 34498.3/40

All: 21.907 ± 0.002 χ^2/NDF : 70932.4/77

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317 ± 6.388 $\chi^2/\text{NDF}: 6.3/16$

Left Out: -4.297 ± 3.866 $\chi^2/\text{NDF}: 14.0/21$

Right Out: 4.561 ± 6.244 $\chi^2/\text{NDF}: 17.7/18$

Left In: -8.260 ± 3.985 $\chi^2/\text{NDF}: 31.3/19$

Left: -6.218 ± 2.775 $\chi^2/\text{NDF}: 45.8/41$

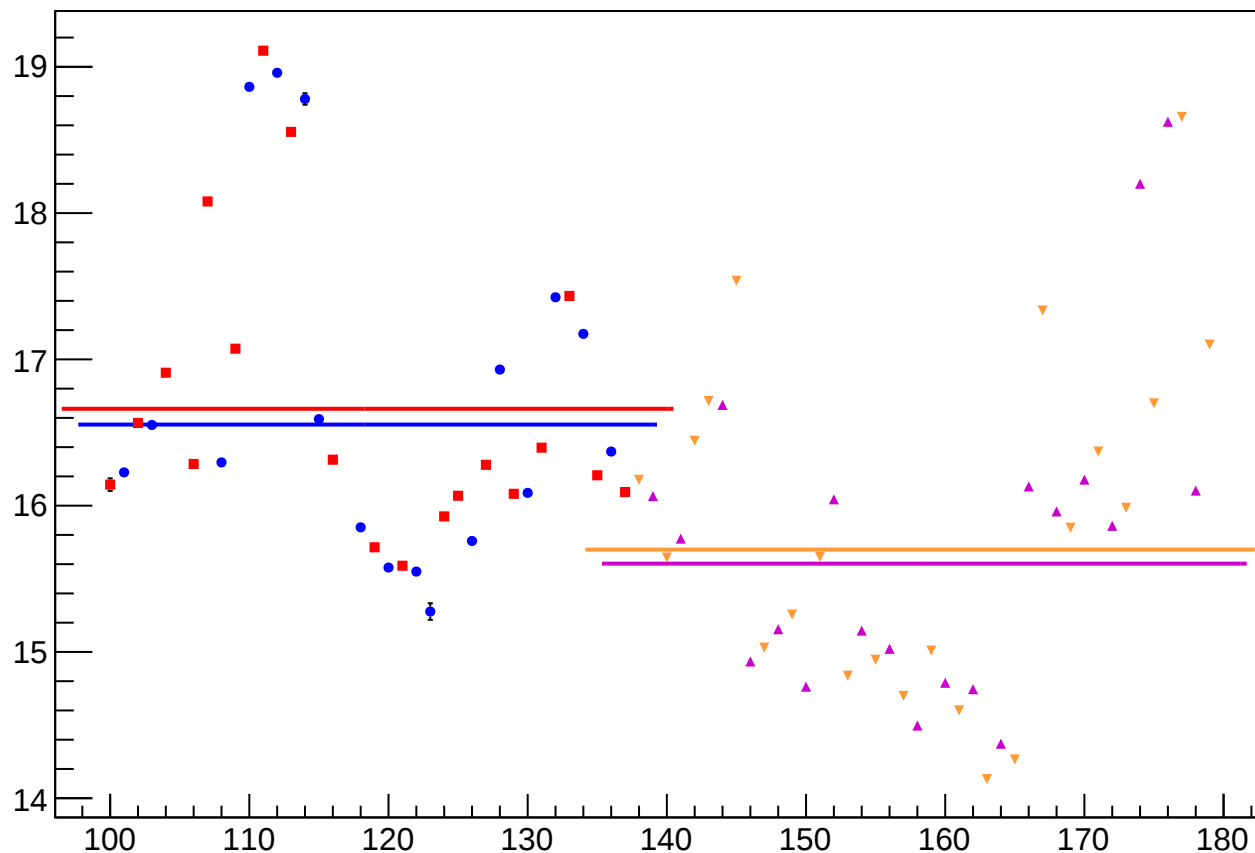
Right: 3.953 ± 4.465 $\chi^2/\text{NDF}: 24.0/35$

In: -5.017 ± 3.381 $\chi^2/\text{NDF}: 39.9/36$

Out: -1.842 ± 3.287 $\chi^2/\text{NDF}: 33.1/40$

All: -3.385 ± 2.357 $\chi^2/\text{NDF}: 73.5/77$

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: 15.700 $\pm$ 0.003 χ^2 /NDF: 161220.3/21

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: 15.653 $\pm$ 0.002 χ^2 /NDF: 288147.1/41

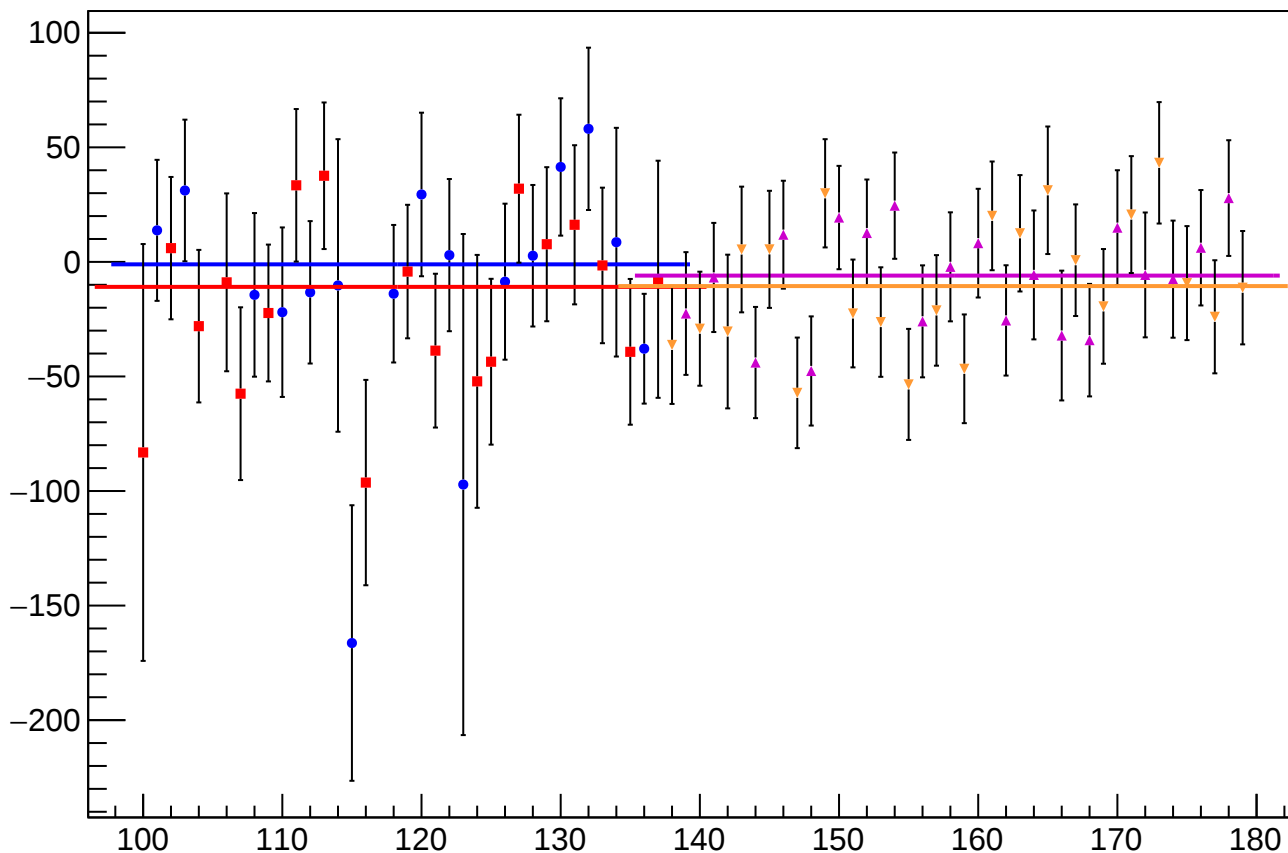
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.870 $\pm$ 0.002 χ^2 /NDF: 202689.8/36

Out: 15.966 $\pm$ 0.002 χ^2 /NDF: 238659.7/40

All: 15.920 $\pm$ 0.002 χ^2 /NDF: 442184.6/77

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: -10.556 ± 5.354 χ^2/NDF : 26.6/21

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: -8.340 ± 3.844 χ^2/NDF : 43.7/41

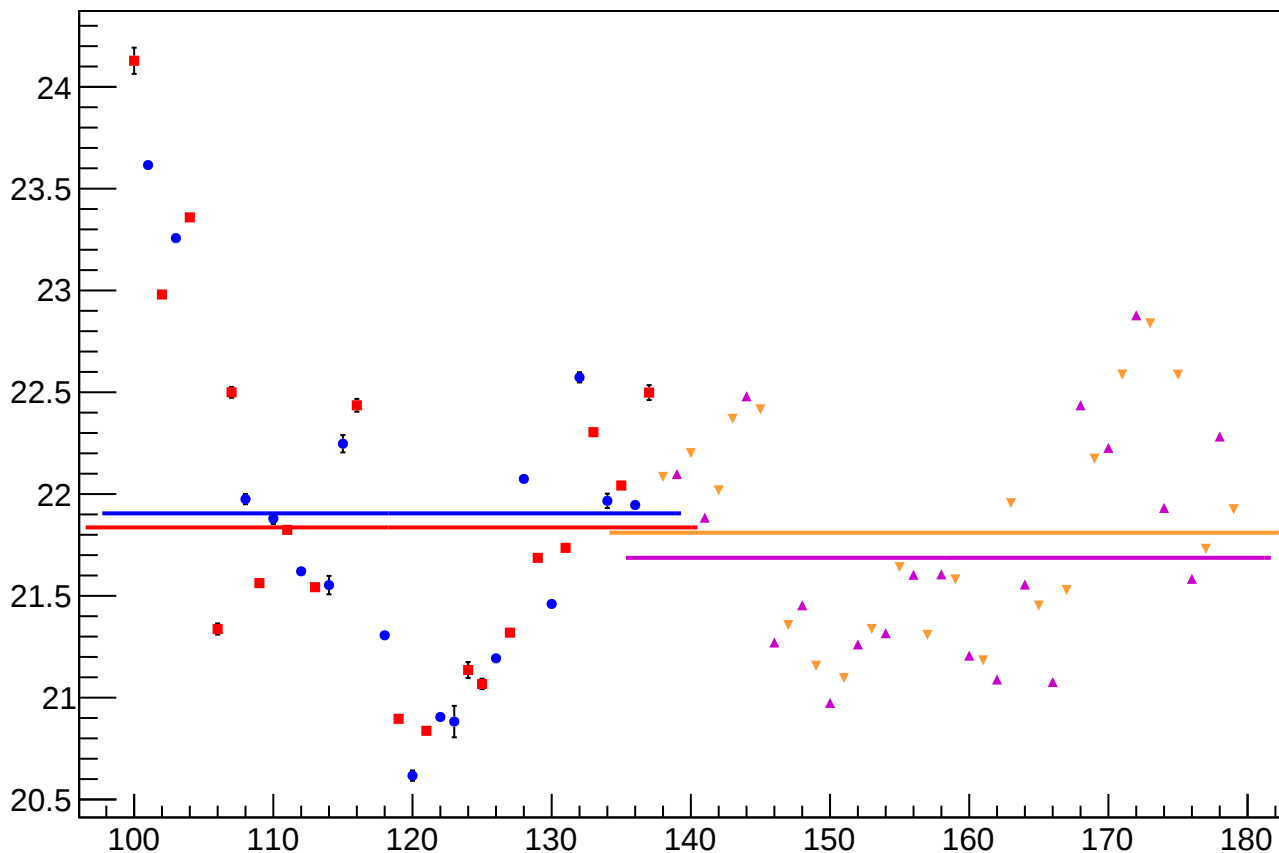
Right: -6.147 ± 5.871 χ^2/NDF : 35.4/35

In: -4.511 ± 4.621 χ^2/NDF : 35.4/36

Out: -10.659 ± 4.478 χ^2/NDF : 42.9/40

All: -7.682 ± 3.216 χ^2/NDF : 79.2/77

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: 21.810 $\pm$ 0.004 χ^2 /NDF:18123.8/21

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: 21.750 $\pm$ 0.003 χ^2 /NDF: 36382.8/41

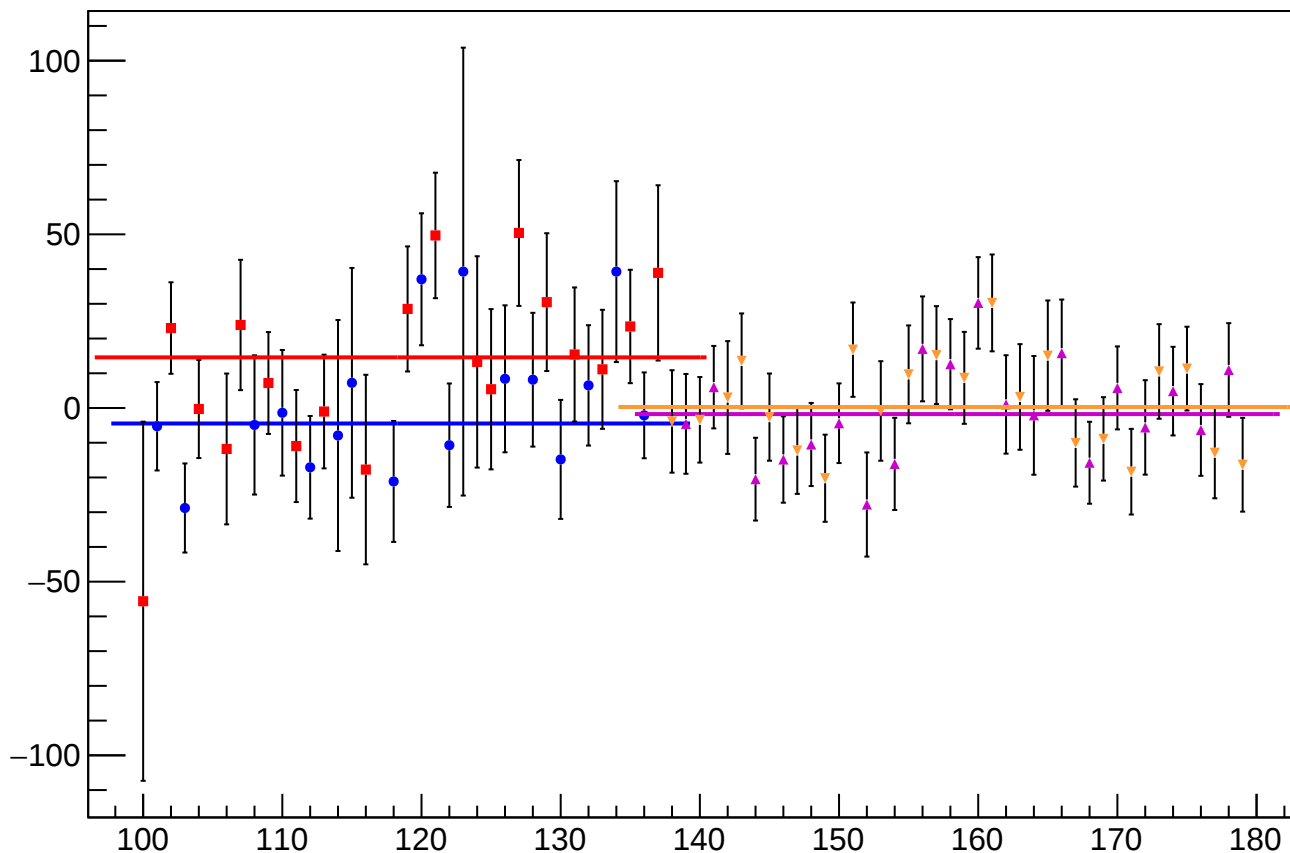
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.752 $\pm$ 0.003 χ^2 /NDF:36475.7/36

Out: 21.818 $\pm$ 0.003 χ^2 /NDF:34389.2/40

All: 21.786 $\pm$ 0.002 χ^2 /NDF: 71073.9/77

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: 0.290 ± 2.859 χ^2/NDF : 21.3/21

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: -0.702 ± 2.049 χ^2/NDF : 43.6/41

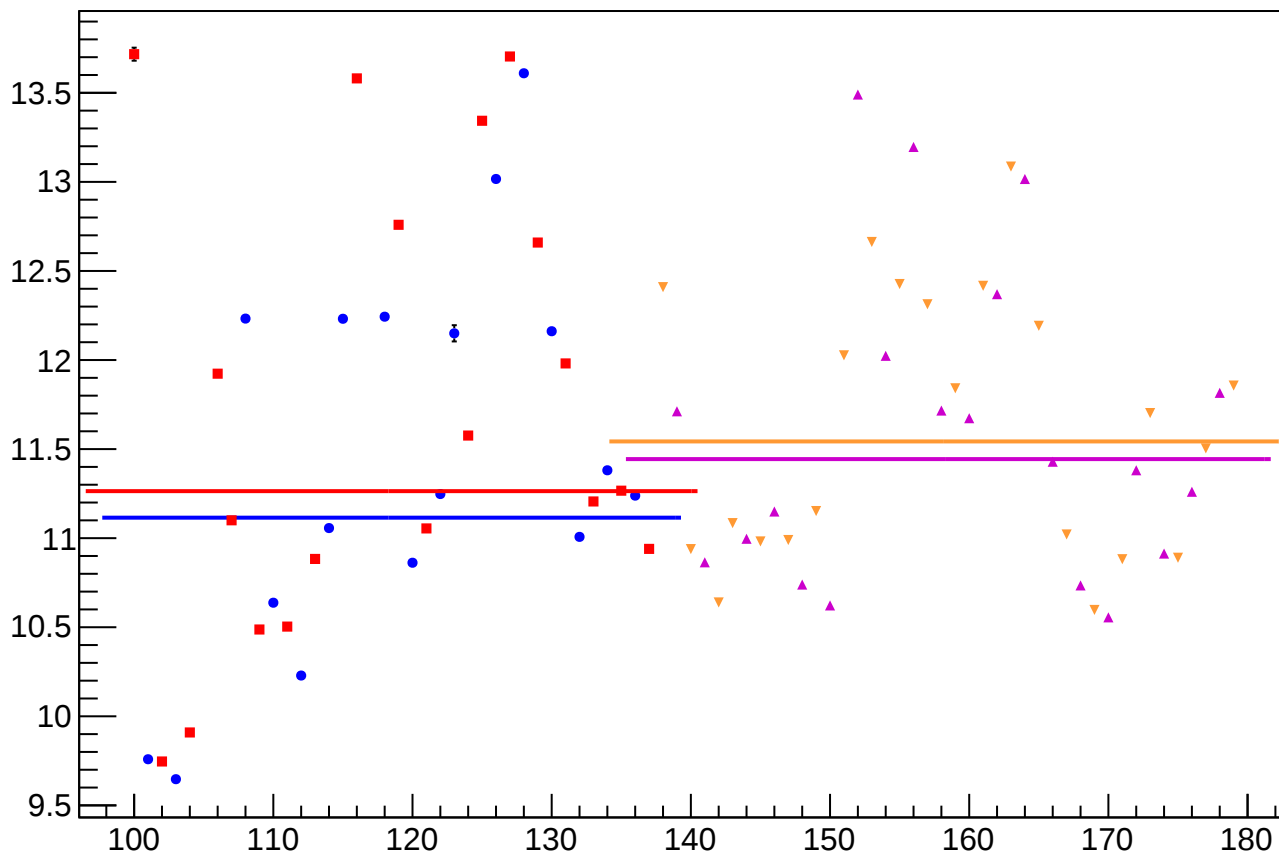
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -2.605 ± 2.431 χ^2/NDF : 37.4/36

Out: 4.721 ± 2.374 χ^2/NDF : 48.6/40

All: 1.144 ± 1.699 χ^2/NDF : 90.7/77

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: 11.543 $\pm$ 0.002 χ^2 /NDF:120261.3/21

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: 11.495 $\pm$ 0.001 χ^2 /NDF: 266680.6/41

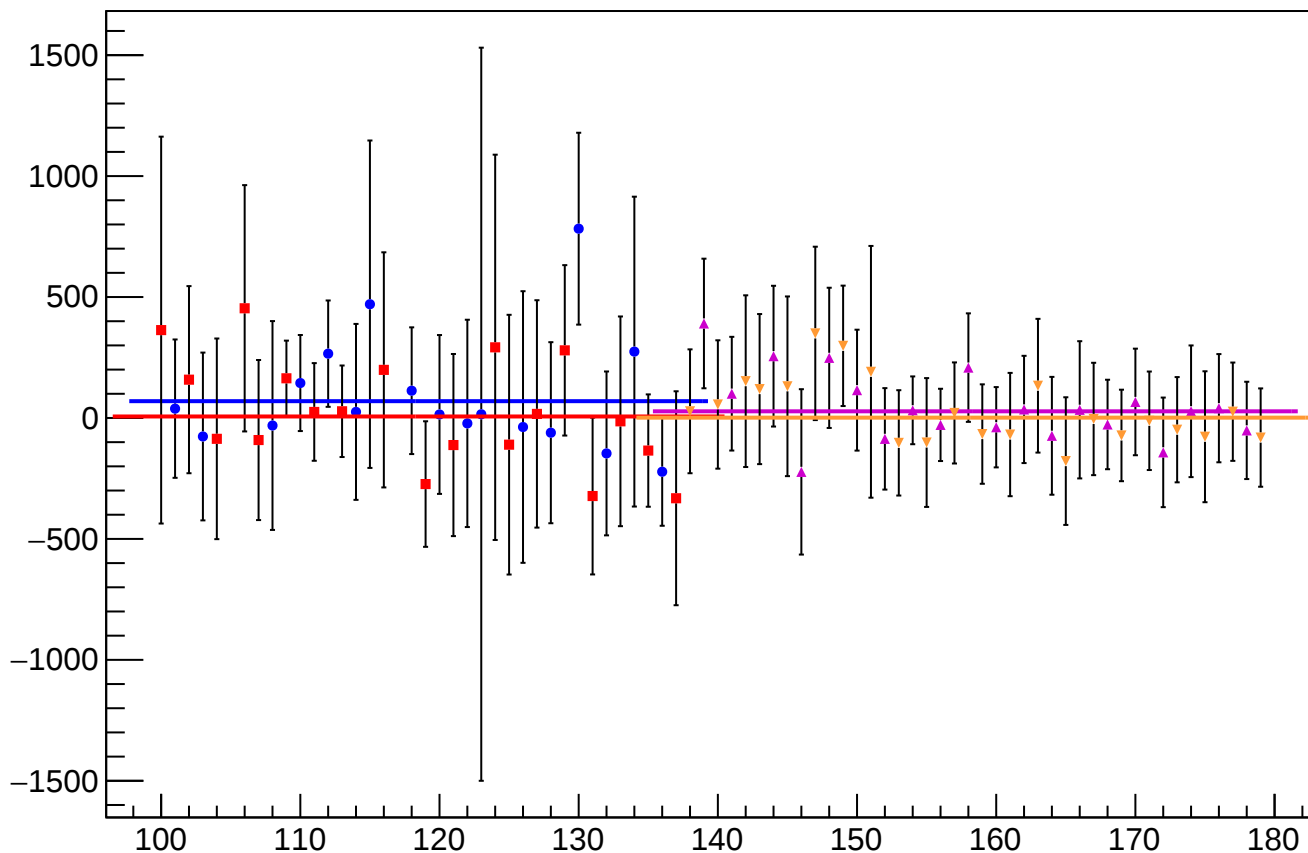
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.340 $\pm$ 0.002 χ^2 /NDF:286207.3/36

Out: 11.456 $\pm$ 0.002 χ^2 /NDF:273654.6/40

All: 11.400 $\pm$ 0.001 χ^2 /NDF: 562206.5/77

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470+/-79.231 χ^2/NDF : 7.3/16

Left Out: 1.358+/-52.627 χ^2/NDF : 4.7/21

Right Out: 6.194+/-70.182 χ^2/NDF : 6.5/18

Left In: 27.544+/-48.107 χ^2/NDF : 6.0/19

Left: 15.623+/-35.507 χ^2/NDF : 10.9/41

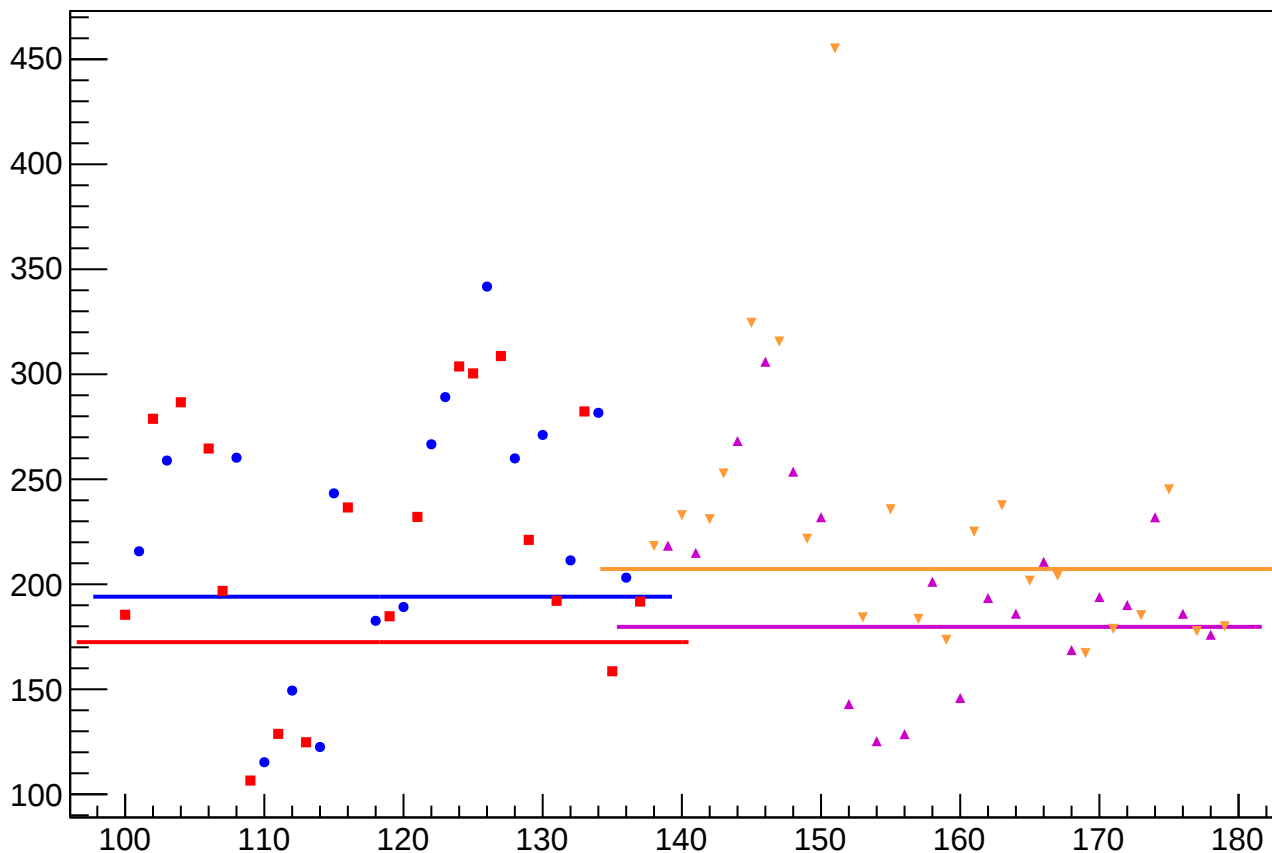
Right: 34.014+/-52.536 χ^2/NDF : 14.1/35

In: 38.837+/-41.121 χ^2/NDF : 13.5/36

Out: 3.098+/-42.104 χ^2/NDF : 11.2/40

All: 21.390+/-29.418 χ^2/NDF : 25.1/77

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: 207.289 $\pm$ 0.037 χ^2/NDF :1343514.5/21

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: 192.277 $\pm$ 0.025 χ^2/NDF : 3230764.3/41

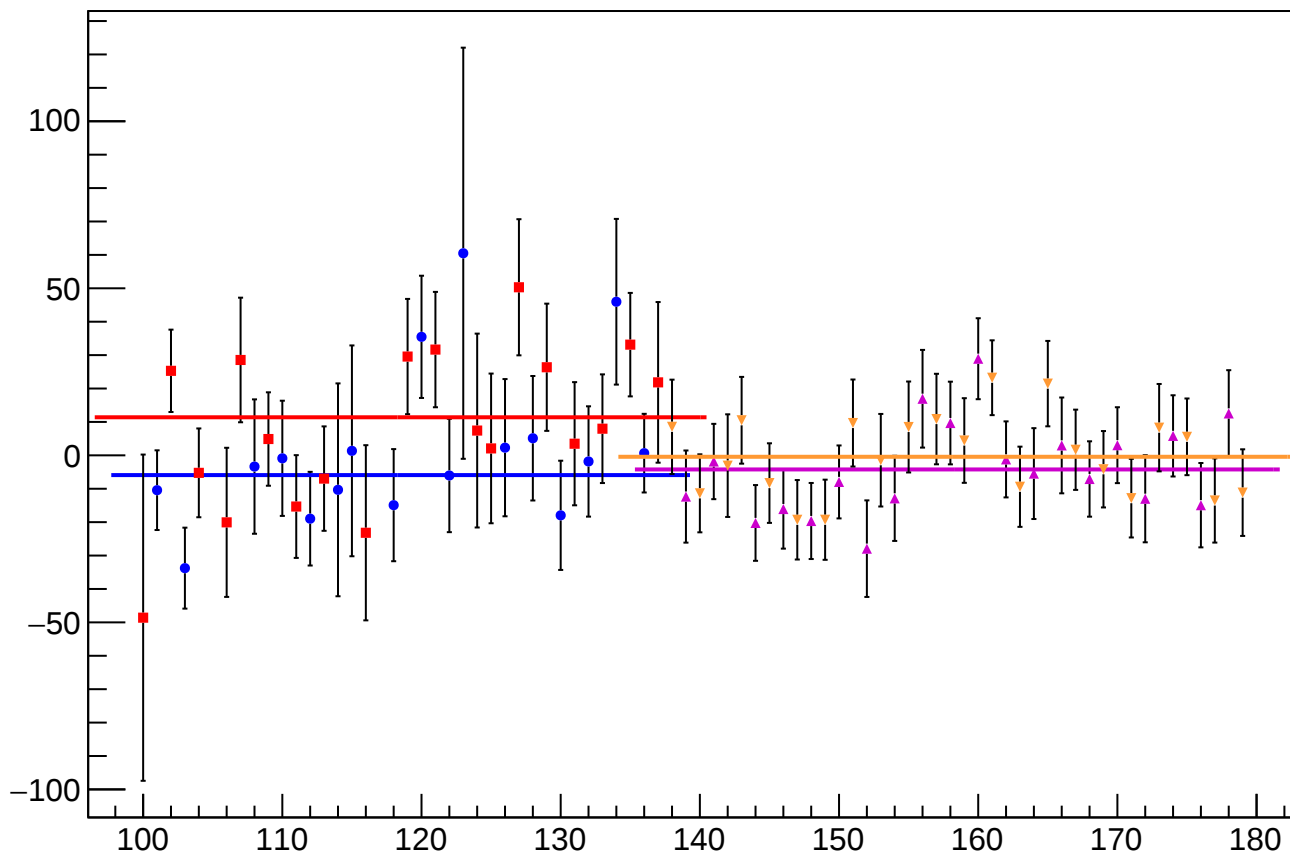
Right: 181.961 $\pm$ 0.037 χ^2/NDF : 2658380.0/35

In: 183.597 $\pm$ 0.029 χ^2/NDF :2641830.3/36

Out: 194.751 $\pm$ 0.030 χ^2/NDF :3228411.9/40

All: 189.042 $\pm$ 0.021 χ^2/NDF : 5942072.6/77

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 ± 4.133 $\chi^2/\text{NDF}: 18.8/16$

Left Out: -0.431 ± 2.670 $\chi^2/\text{NDF}: 21.0/21$

Right Out: 11.391 ± 4.079 $\chi^2/\text{NDF}: 22.9/18$

Left In: -4.224 ± 2.757 $\chi^2/\text{NDF}: 23.7/19$

Left: -2.267 ± 1.918 $\chi^2/\text{NDF}: 45.6/41$

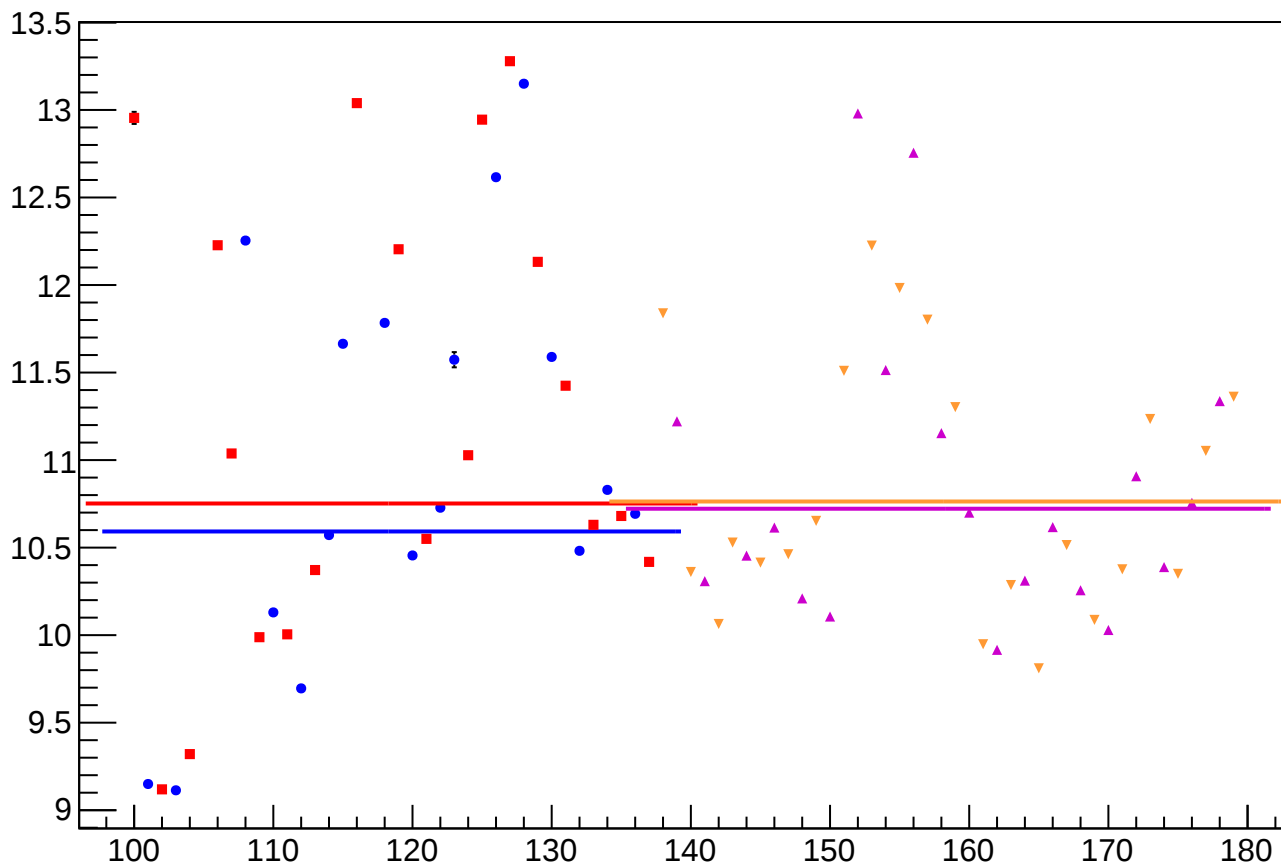
Right: 2.855 ± 2.903 $\chi^2/\text{NDF}: 50.6/35$

In: -4.744 ± 2.293 $\chi^2/\text{NDF}: 42.6/36$

Out: 3.115 ± 2.234 $\chi^2/\text{NDF}: 49.7/40$

All: -0.711 ± 1.600 $\chi^2/\text{NDF}: 98.4/77$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.592 $\pm$ 0.003 χ^2 /NDF: 160397.9/16

Left Out: 10.763 $\pm$ 0.002 χ^2 /NDF:127633.0/21

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.722 $\pm$ 0.002 χ^2 /NDF:143906.0/19

Left: 10.743 $\pm$ 0.001 χ^2 /NDF: 271771.3/41

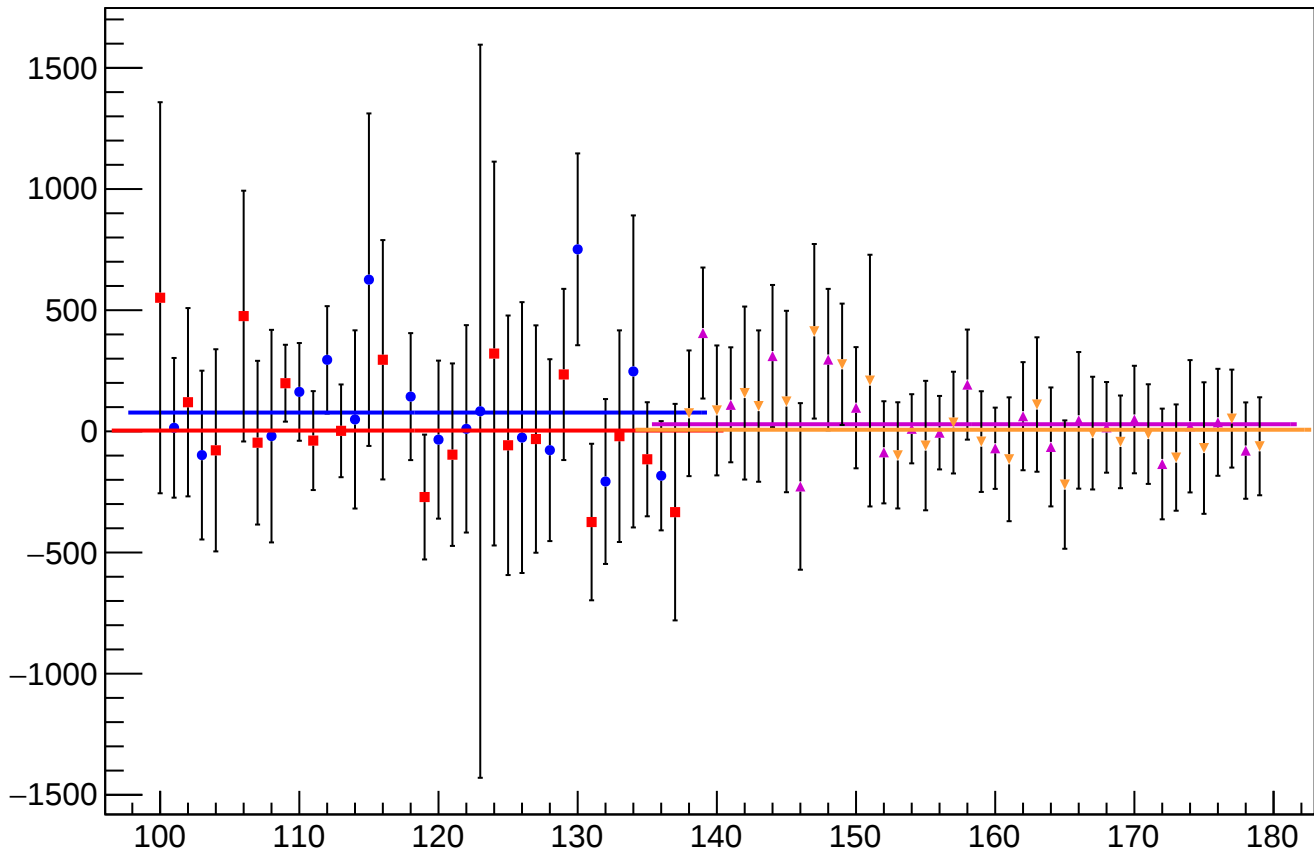
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.682 $\pm$ 0.002 χ^2 /NDF:305670.2/36

Out: 10.760 $\pm$ 0.002 χ^2 /NDF:304539.3/40

All: 10.722 $\pm$ 0.001 χ^2 /NDF: 611393.8/77

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: 6.665 $\pm$ 52.898 χ^2/NDF : 5.2/21

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: 19.015 $\pm$ 35.732 χ^2/NDF : 12.0/41

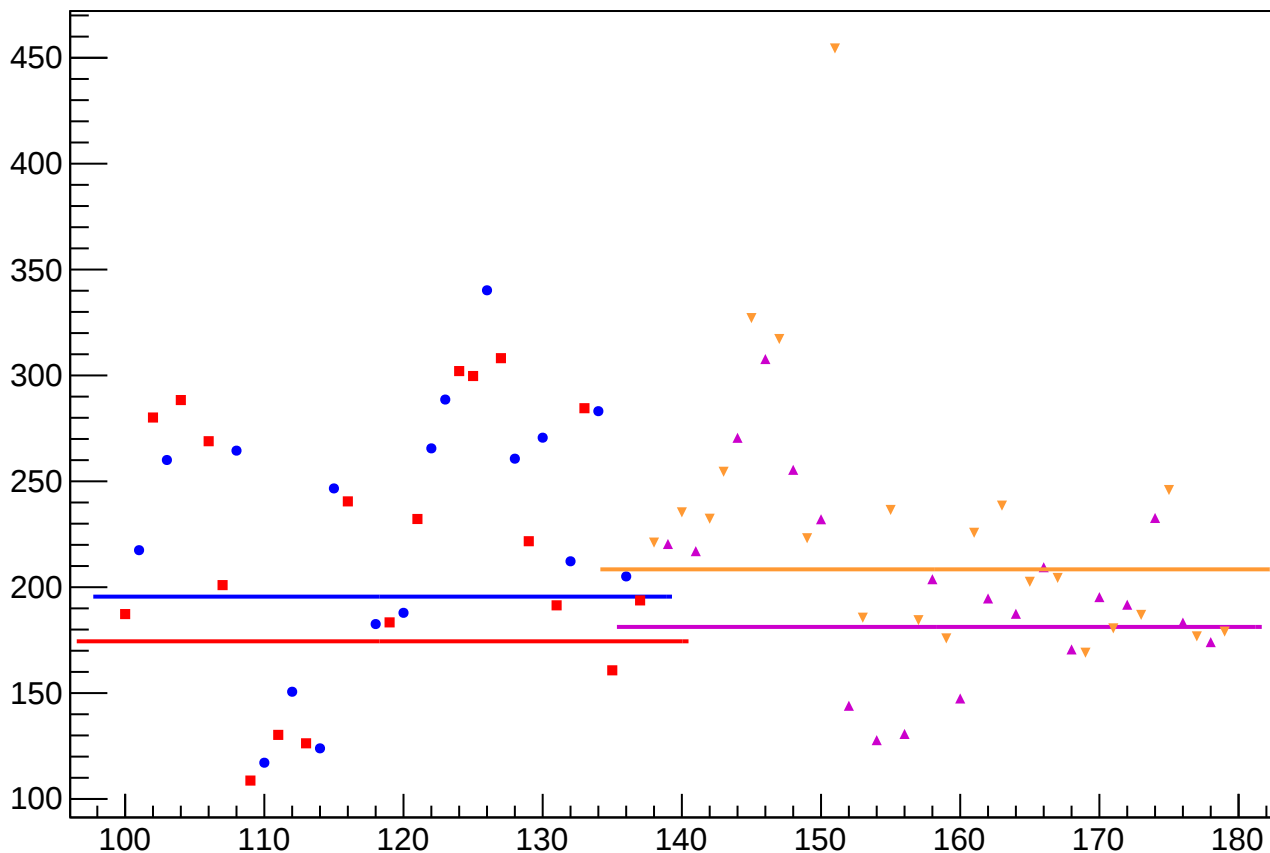
Right: 36.075 $\pm$ 52.969 χ^2/NDF : 15.4/35

In: 42.379 $\pm$ 41.413 χ^2/NDF : 14.5/36

Out: 5.463 $\pm$ 42.388 χ^2/NDF : 12.5/40

All: 24.350 $\pm$ 29.622 χ^2/NDF : 27.4/77

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551+/-0.056 χ^2/NDF : 979937.7/16

Left Out: 208.432+/-0.037 χ^2/NDF :1339535.2/21

Right Out: 174.449+/-0.050 χ^2/NDF : 1528629.1/18

Left In: 181.248+/-0.034 χ^2/NDF :1542761.5/19

Left: 193.651+/-0.025 χ^2/NDF : 3169472.6/41

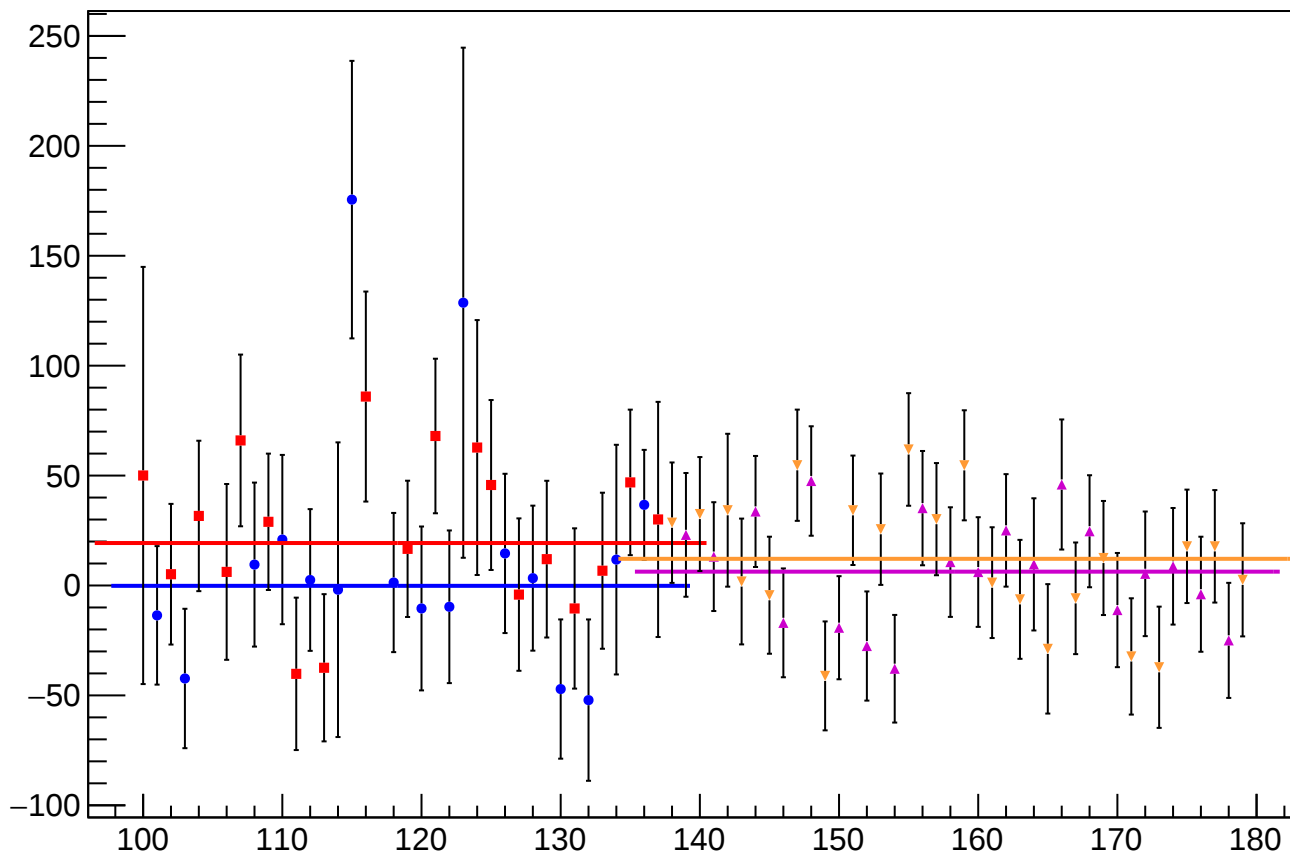
Right: 183.758+/-0.037 χ^2/NDF : 2586820.6/35

In: 185.105+/-0.029 χ^2/NDF :2569684.6/36

Out: 196.270+/-0.030 χ^2/NDF :3163566.3/40

All: 190.557+/-0.021 χ^2/NDF : 5804244.4/77

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: 12.132 ± 5.615 χ^2/NDF : 26.9/21

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: 9.296 ± 4.029 χ^2/NDF : 45.1/41

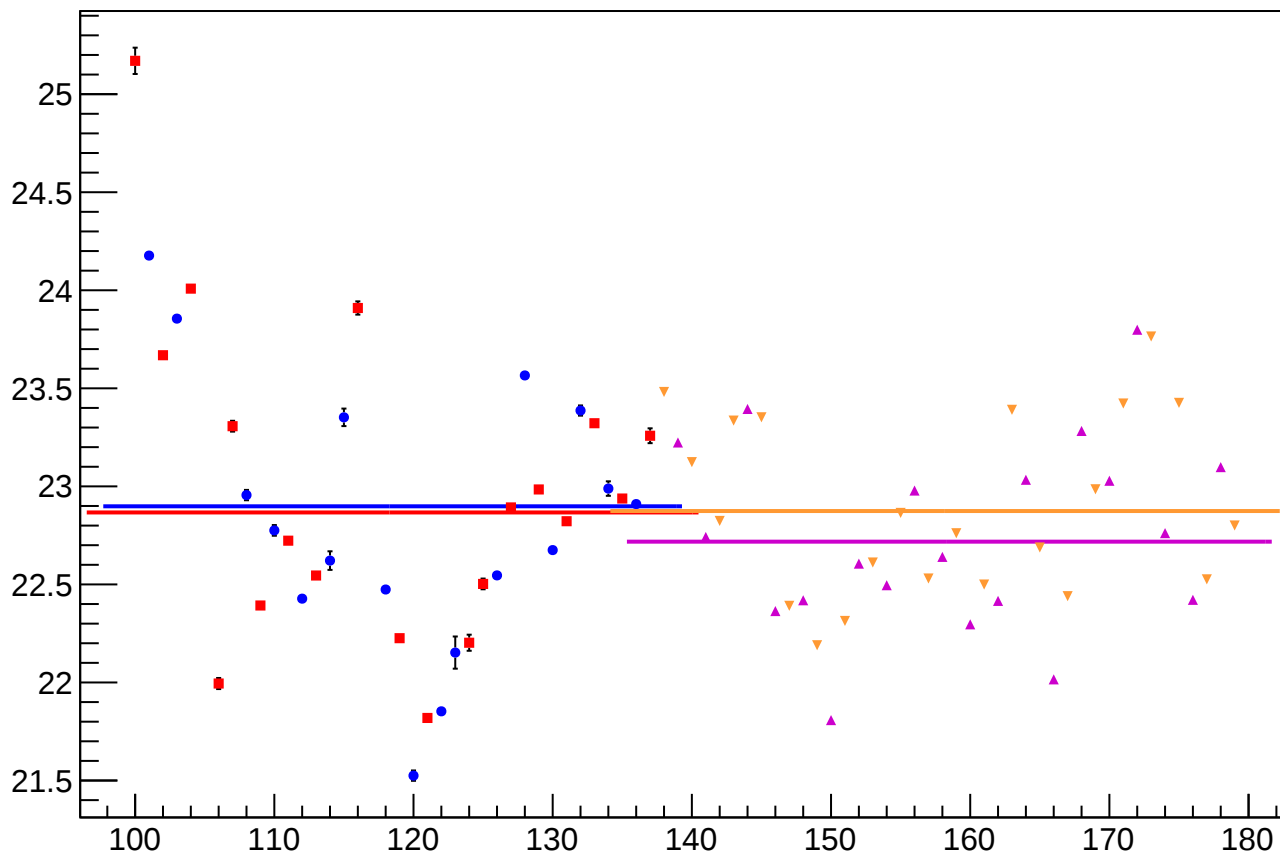
Right: 9.884 ± 6.142 χ^2/NDF : 35.4/35

In: 4.352 ± 4.838 χ^2/NDF : 36.1/36

Out: 14.295 ± 4.694 χ^2/NDF : 42.2/40

All: 9.473 ± 3.369 χ^2/NDF : 80.5/77

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: 22.874 $\pm$ 0.004 χ^2 /NDF:12341.4/21

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: 26364.5/41

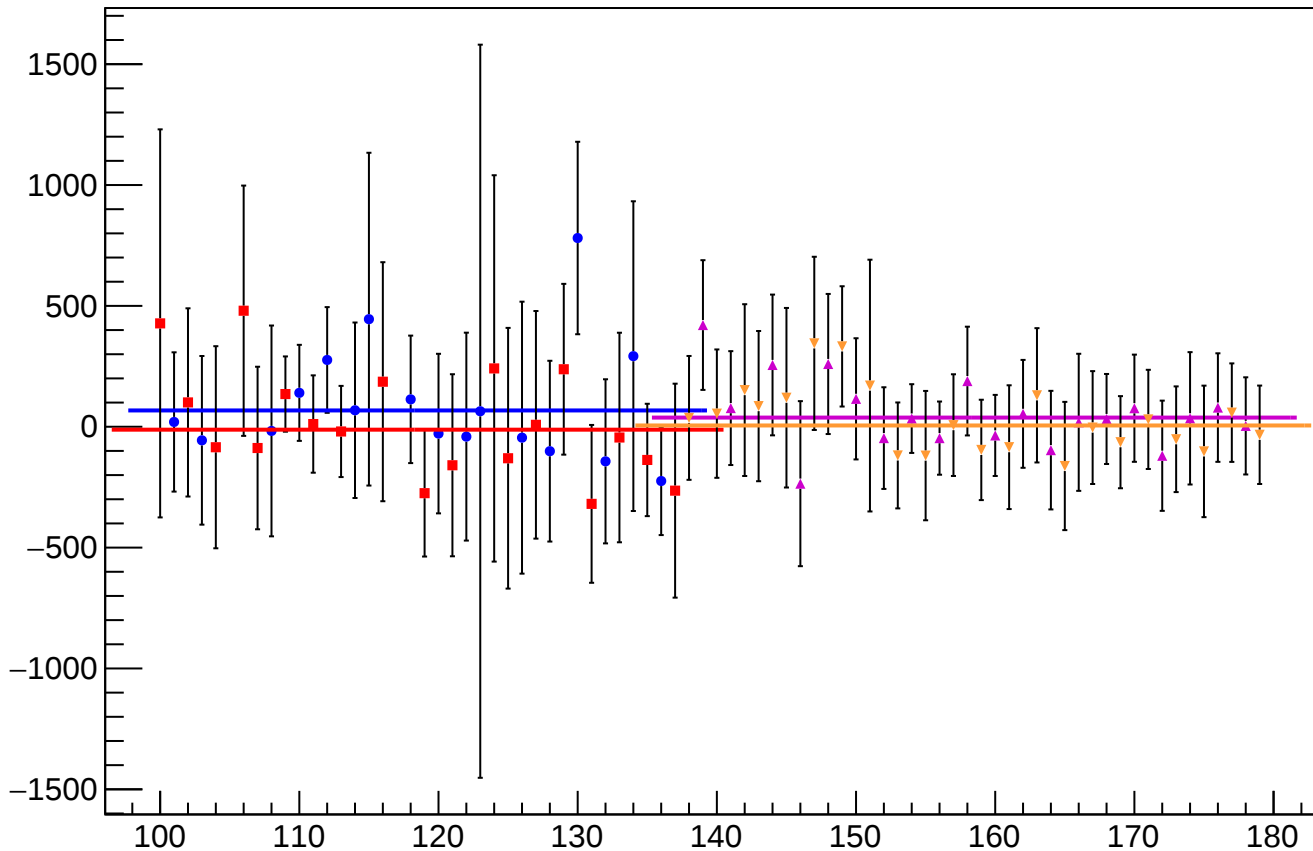
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.772 $\pm$ 0.003 χ^2 /NDF:25999.5/36

Out: 22.872 $\pm$ 0.003 χ^2 /NDF:23390.8/40

All: 22.824 $\pm$ 0.002 χ^2 /NDF: 49829.0/77

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: 5.275 $\pm$ 52.860 χ^2 /NDF:5.1/21

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: 23.016 $\pm$ 35.703 χ^2 /NDF: 11.2/41

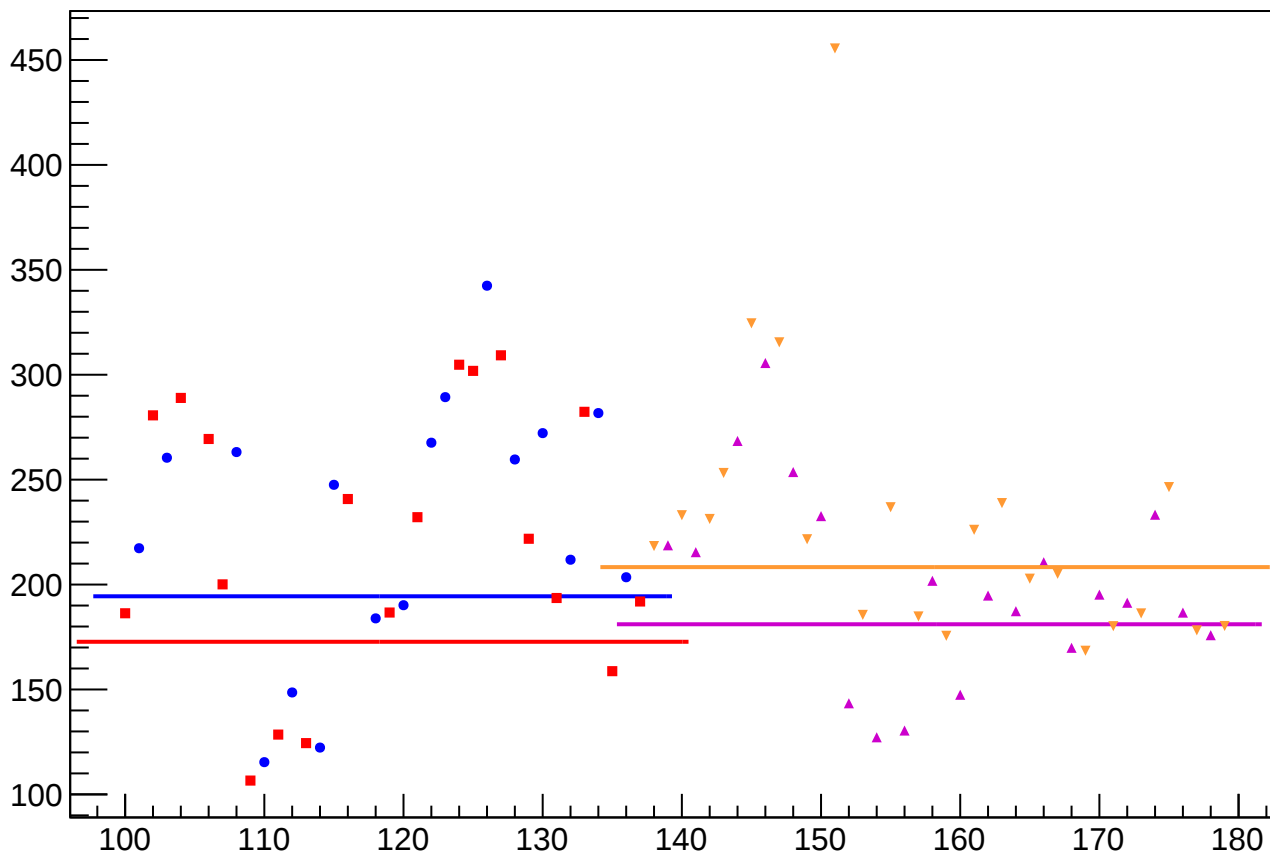
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 45.908 $\pm$ 41.338 χ^2 /NDF:13.4/36

Out: -1.001 $\pm$ 42.261 χ^2 /NDF:10.9/40

All: 22.972 $\pm$ 29.551 χ^2 /NDF: 24.9/77

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: 208.315 $\pm$ 0.037 χ^2 /NDF:1321910.5/21

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: 193.504 $\pm$ 0.025 χ^2 /NDF: 3146068.7/41

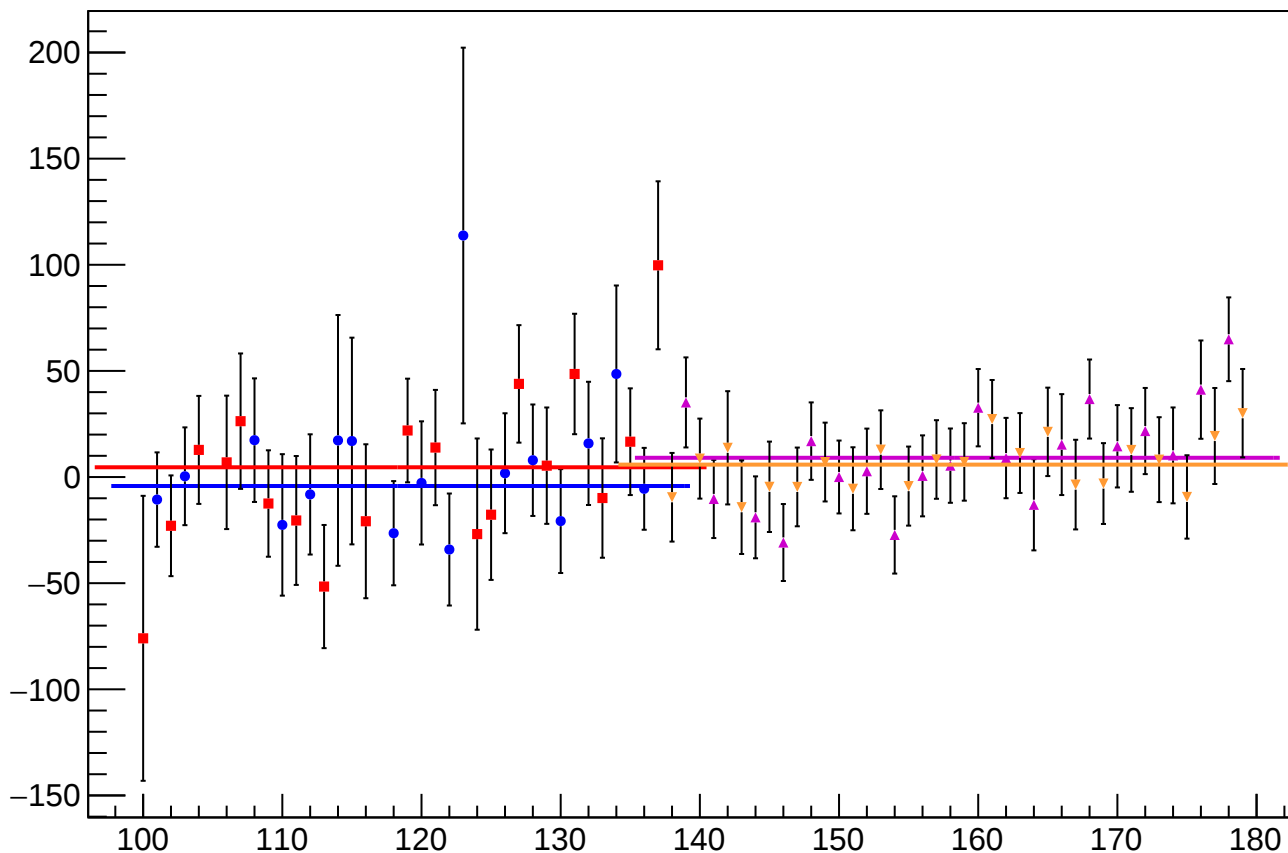
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 184.692 $\pm$ 0.029 χ^2 /NDF:2596437.5/36

Out: 195.475 $\pm$ 0.030 χ^2 /NDF:3245697.4/40

All: 189.965 $\pm$ 0.021 χ^2 /NDF: 5908678.1/77

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 χ^2/NDF : 8.0/16

Left Out: 5.852 ± 4.228 χ^2/NDF : 7.7/21

Right Out: 4.599 ± 6.725 χ^2/NDF : 21.1/18

Left In: 9.073 ± 4.347 χ^2/NDF : 29.8/19

Left: 7.418 ± 3.031 χ^2/NDF : 37.8/41

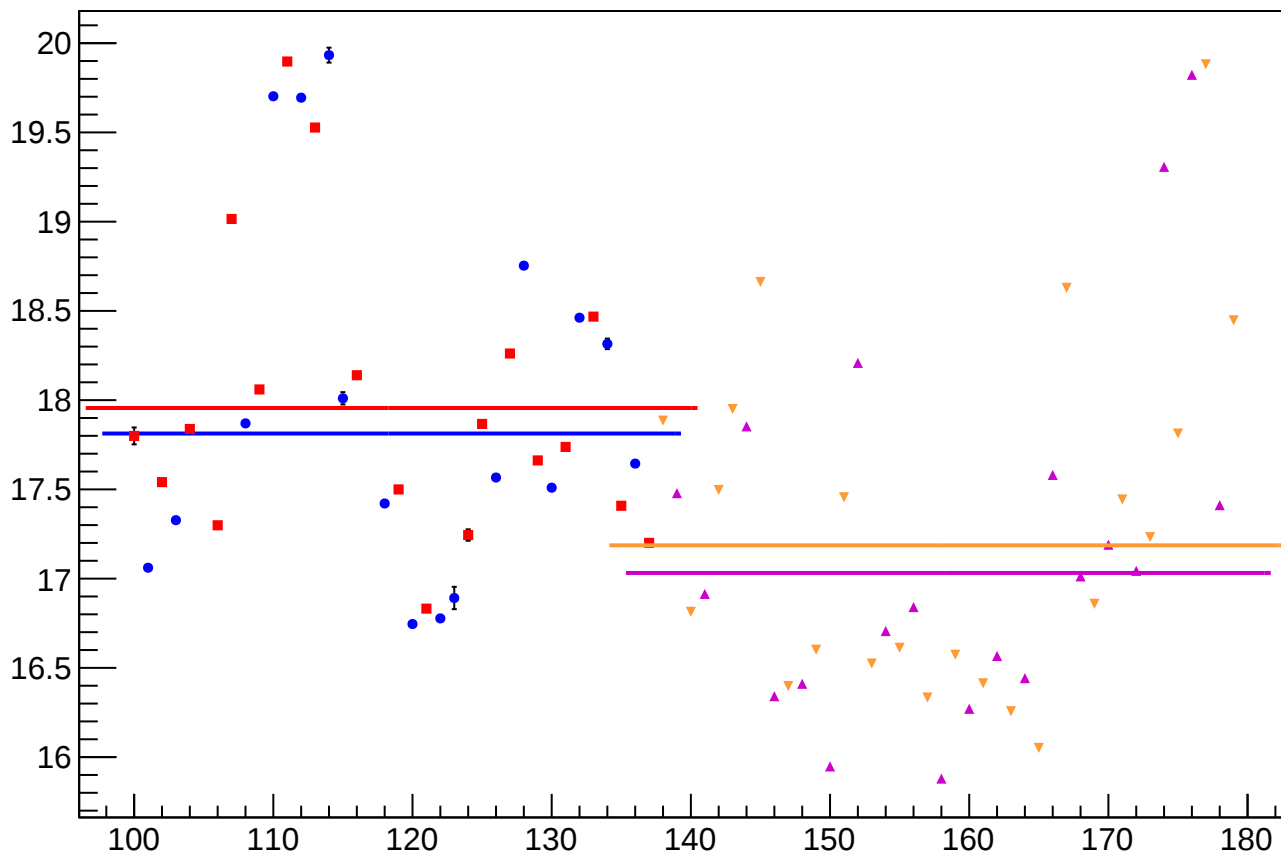
Right: 0.283 ± 4.806 χ^2/NDF : 29.9/35

In: 5.272 ± 3.674 χ^2/NDF : 40.5/36

Out: 5.497 ± 3.580 χ^2/NDF : 28.8/40

All: 5.387 ± 2.564 χ^2/NDF : 69.3/77

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: 17.187 $\pm$ 0.003 χ^2 /NDF:94620.0/21

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: 17.111 $\pm$ 0.002 χ^2 /NDF: 187588.7/41

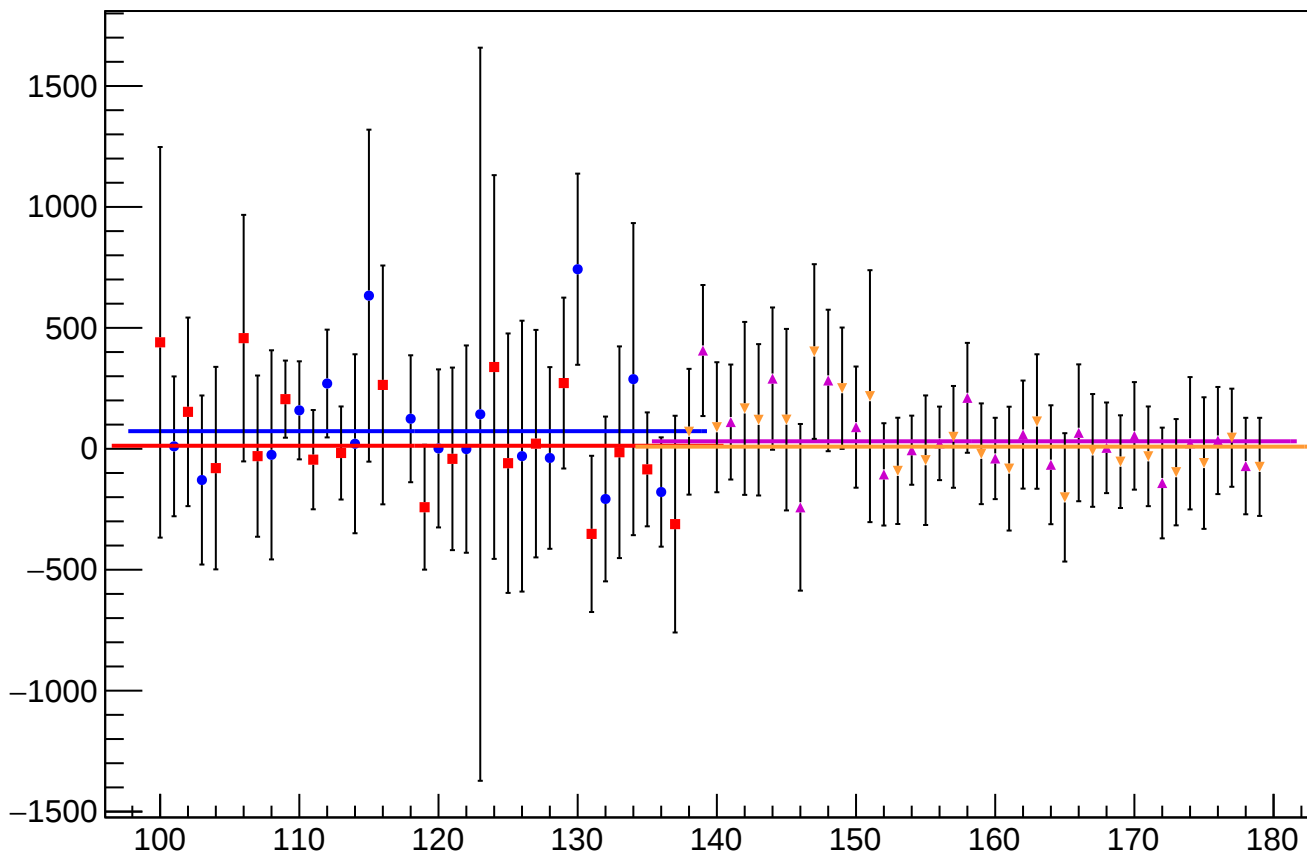
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.255 $\pm$ 0.003 χ^2 /NDF:142162.3/36

Out: 17.405 $\pm$ 0.003 χ^2 /NDF:138827.2/40

All: 17.332 $\pm$ 0.002 χ^2 /NDF: 282687.3/77

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 8.928+/-53.023 χ^2/NDF : 4.7/21

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 31.041+/-48.564 χ^2/NDF : 6.6/19

Left: 20.954+/-35.813 χ^2/NDF : 11.3/41

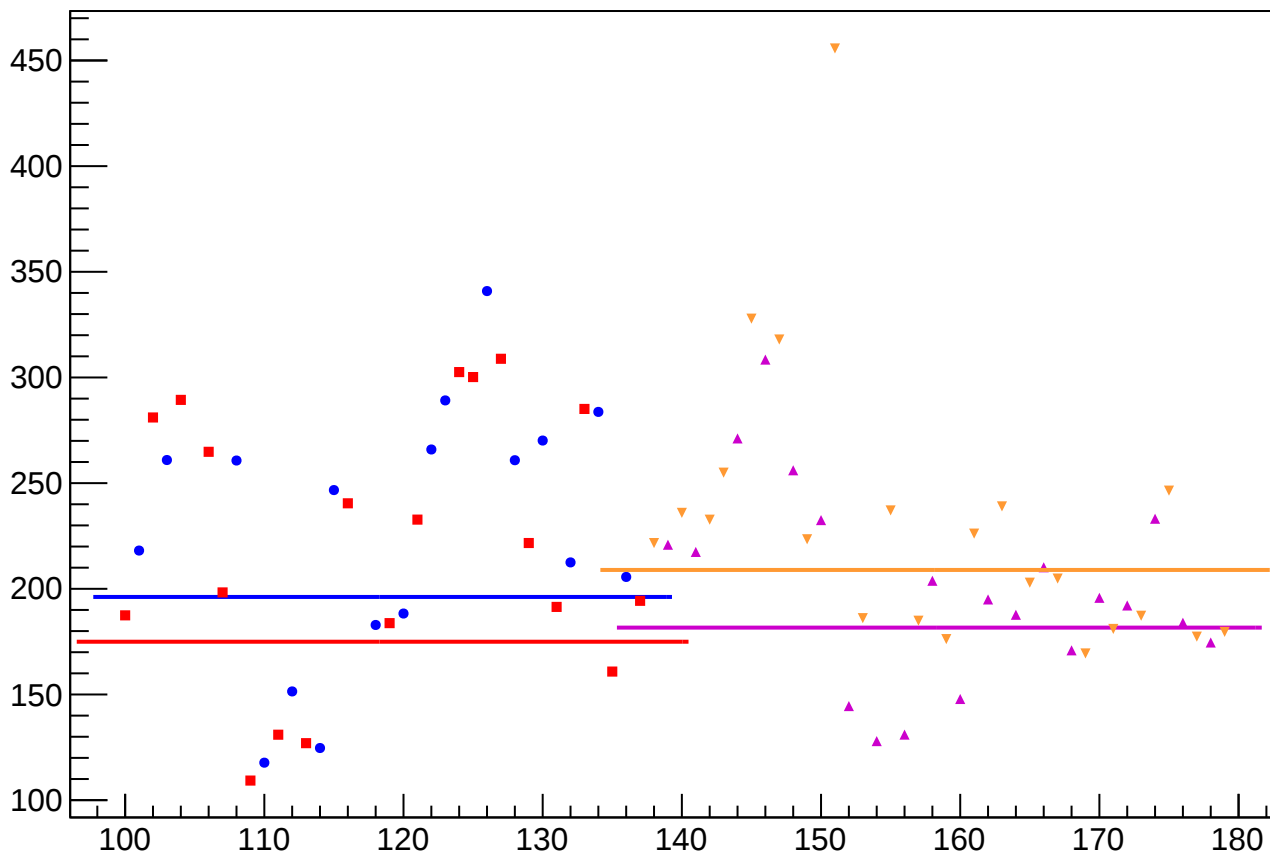
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 42.320+/-41.506 χ^2/NDF : 14.0/36

Out: 10.230+/-42.486 χ^2/NDF : 11.4/40

All: 26.650+/-29.690 χ^2/NDF : 25.7/77

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.151+/-0.057 χ^2/NDF : 964998.4/16

Left Out: 208.927+/-0.037 χ^2/NDF :1338452.2/21

Right Out: 174.965+/-0.050 χ^2/NDF : 1510956.5/18

Left In: 181.639+/-0.034 χ^2/NDF :1542405.4/19

Left: 194.087+/-0.025 χ^2/NDF : 3168934.0/41

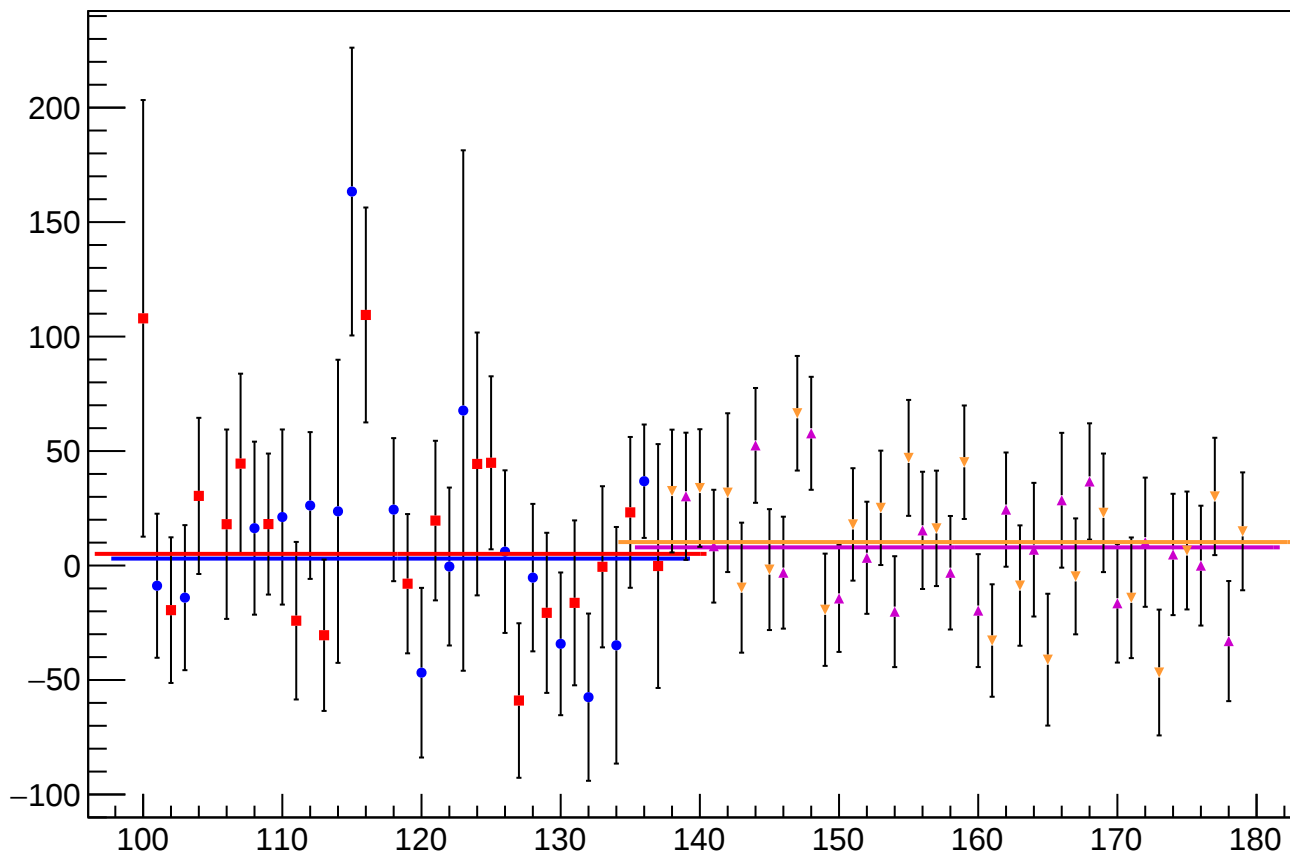
Right: 184.308+/-0.038 χ^2/NDF : 2554463.3/35

In: 185.550+/-0.029 χ^2/NDF :2555540.9/36

Out: 196.770+/-0.030 χ^2/NDF :3143120.9/40

All: 191.029+/-0.021 χ^2/NDF : 5770030.6/77

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 χ^2/NDF : 17.2/16

Left Out: 10.246 ± 5.559 χ^2/NDF : 26.9/21

Right Out: 5.092 ± 8.477 χ^2/NDF : 17.2/18

Left In: 7.933 ± 5.734 χ^2/NDF : 17.6/19

Left: 9.125 ± 3.991 χ^2/NDF : 44.5/41

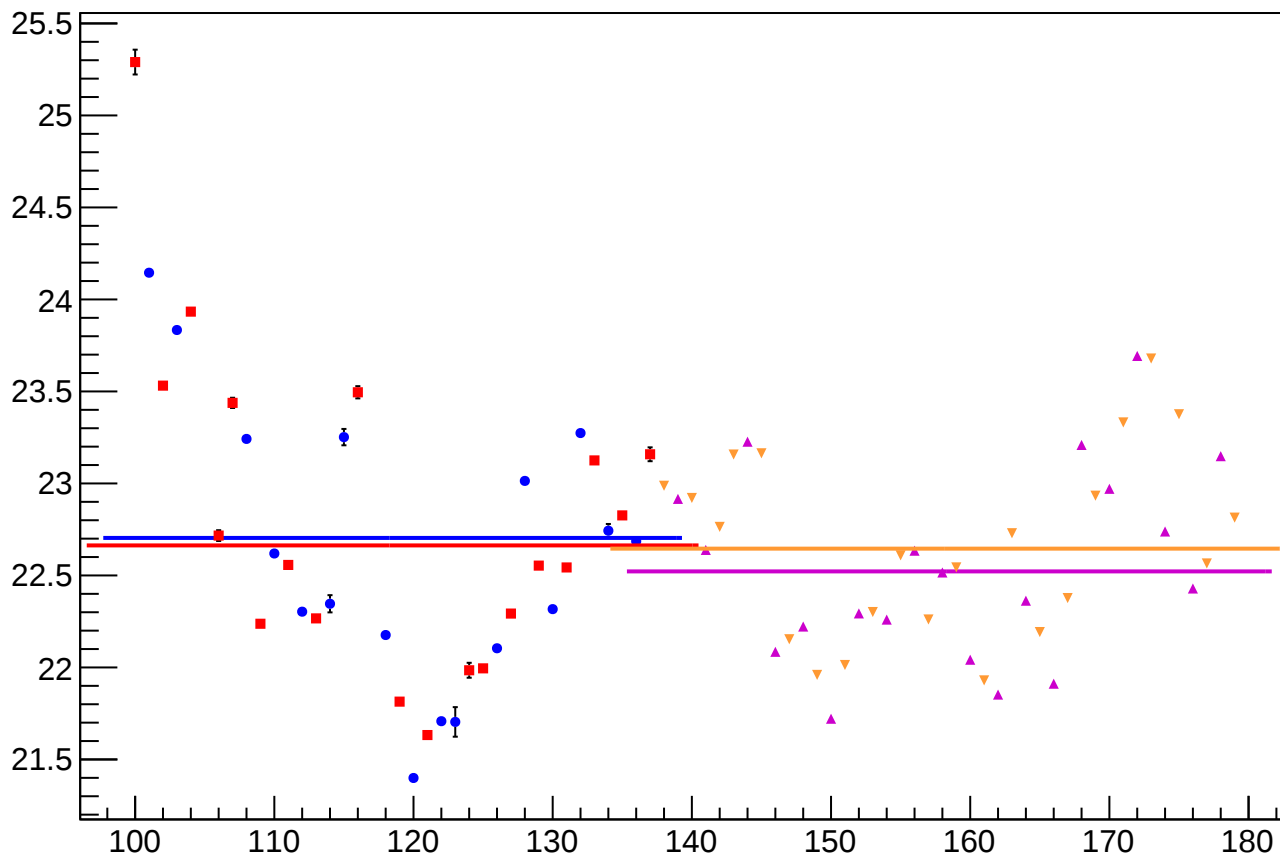
Right: 4.090 ± 6.089 χ^2/NDF : 34.4/35

In: 6.458 ± 4.796 χ^2/NDF : 34.9/36

Out: 8.696 ± 4.649 χ^2/NDF : 44.3/40

All: 7.612 ± 3.338 χ^2/NDF : 79.4/77

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: 22.646 $\pm$ 0.004 χ^2 /NDF:15134.9/21

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: 22.586 $\pm$ 0.003 χ^2 /NDF: 31296.3/41

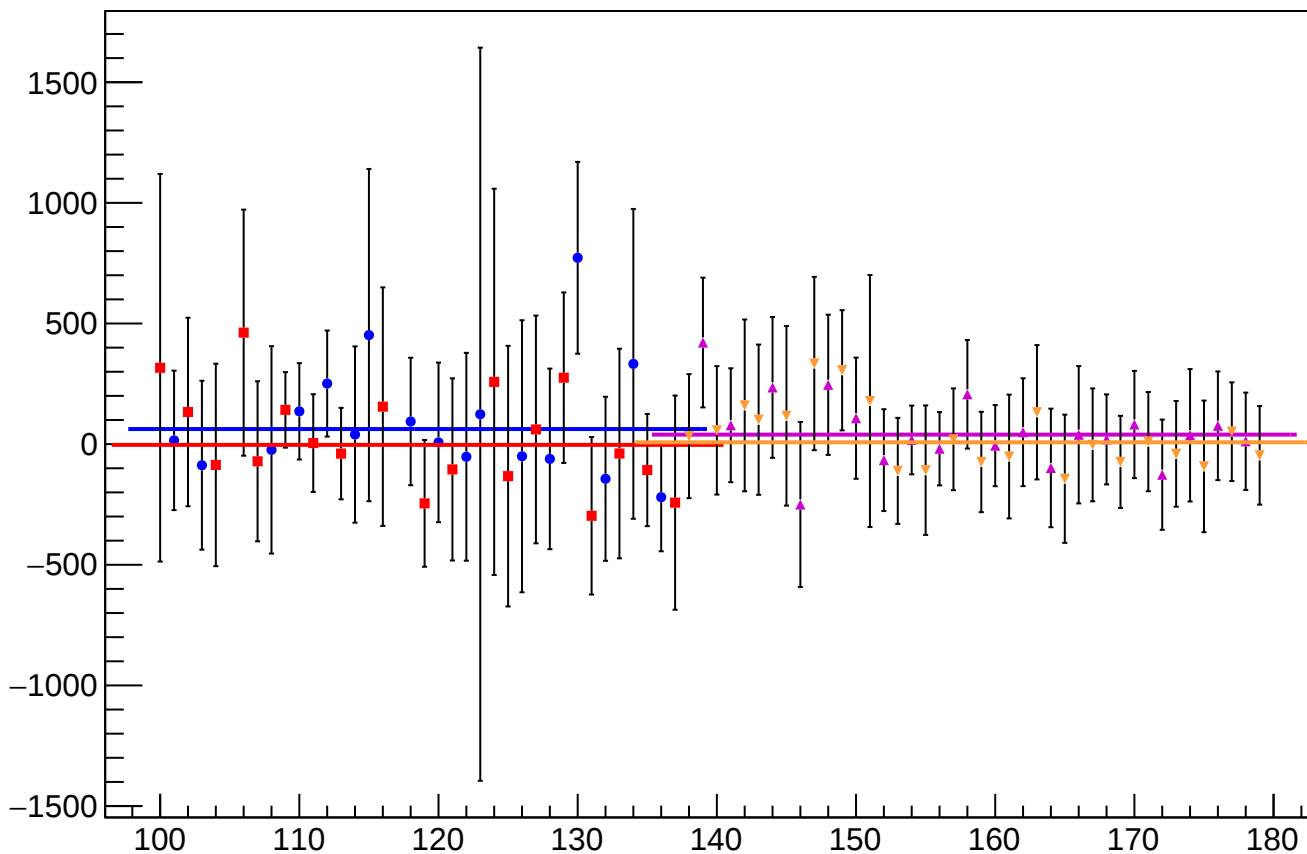
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.577 $\pm$ 0.003 χ^2 /NDF:30392.2/36

Out: 22.651 $\pm$ 0.003 χ^2 /NDF:28084.3/40

All: 22.615 $\pm$ 0.002 χ^2 /NDF: 58724.1/77

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: 7.608+/-52.985 χ^2/NDF : 4.5/21

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: 24.962+/-35.783 χ^2/NDF : 10.4/41

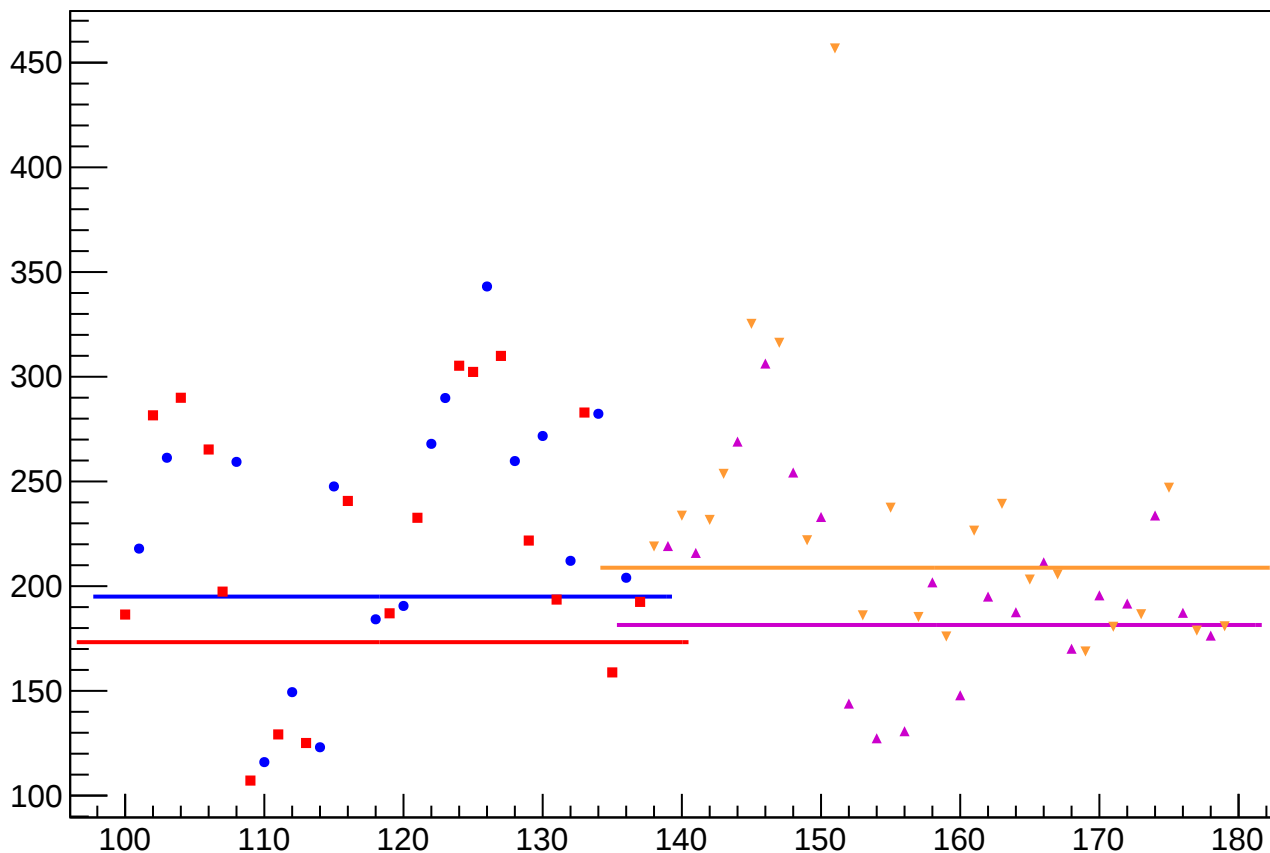
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 45.760+/-41.431 χ^2/NDF : 12.9/36

Out: 3.766+/-42.360 χ^2/NDF : 9.7/40

All: 25.229+/-29.619 χ^2/NDF : 23.1/77

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: 208.810 ± 0.037 $\chi^2/\text{NDF}: 1320895.9/21$

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: 193.938 ± 0.025 $\chi^2/\text{NDF}: 3145863.6/41$

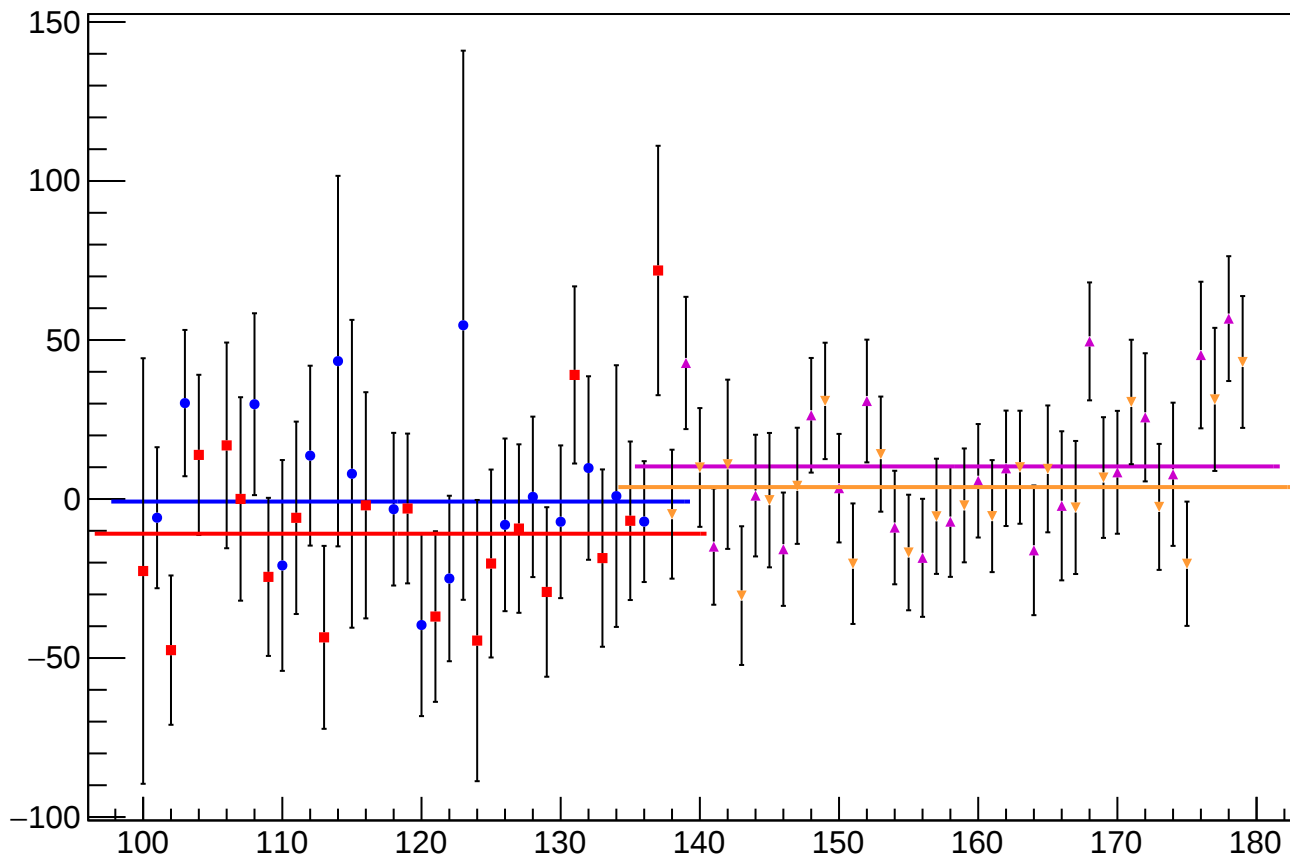
Right: 182.829 ± 0.037 $\chi^2/\text{NDF}: 2666222.6/35$

In: 185.139 ± 0.029 $\chi^2/\text{NDF}: 2581843.2/36$

Out: 195.982 ± 0.030 $\chi^2/\text{NDF}: 3223944.6/40$

All: 190.440 ± 0.021 $\chi^2/\text{NDF}: 5872773.6/77$

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: 3.749 ± 4.148 χ^2/NDF : 17.8/21

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: 6.897 ± 2.978 χ^2/NDF : 47.4/41

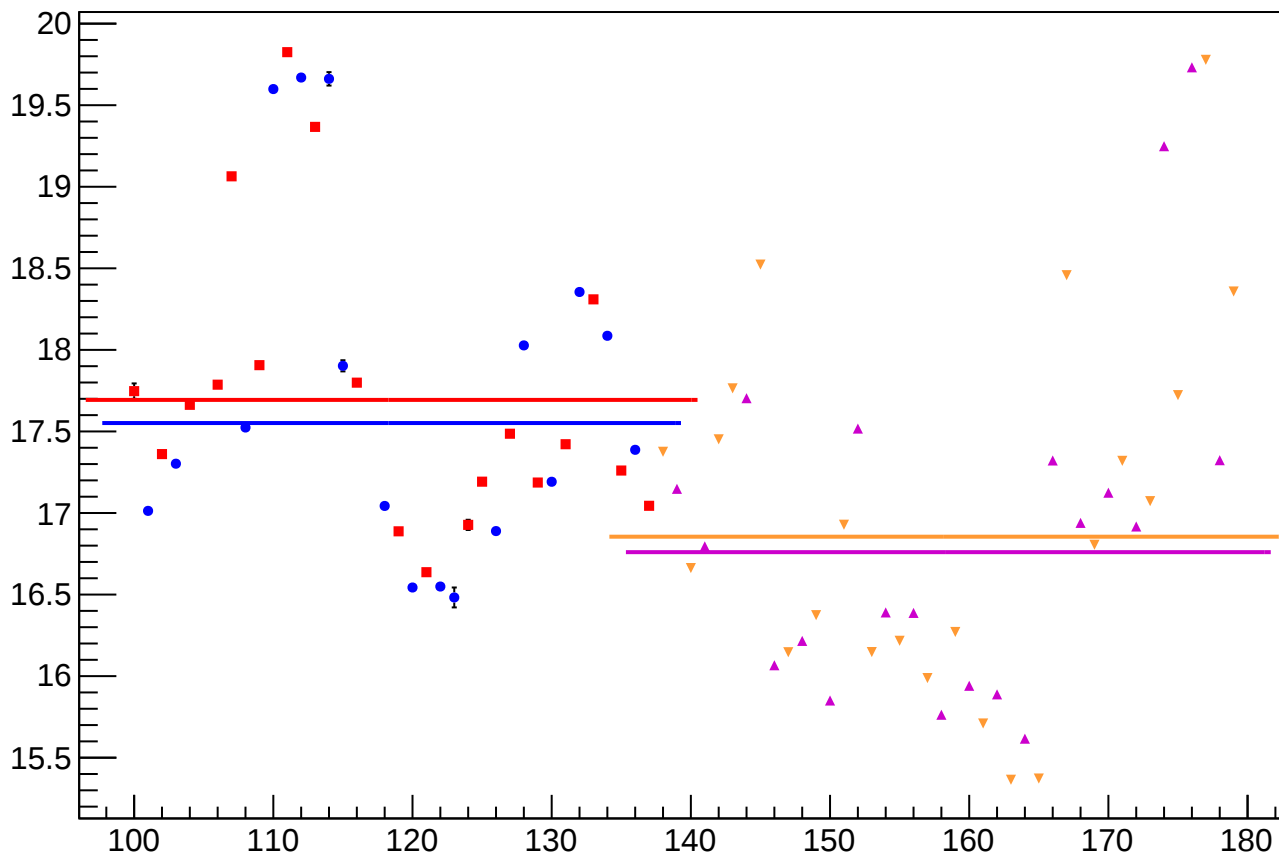
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 7.094 ± 3.616 χ^2/NDF : 38.1/36

Out: -0.379 ± 3.516 χ^2/NDF : 37.3/40

All: 3.252 ± 2.521 χ^2/NDF : 77.5/77

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: 16.855 $\pm$ 0.003 χ^2 /NDF:130039.9/21

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: 16.809 $\pm$ 0.002 χ^2 /NDF: 234608.7/41

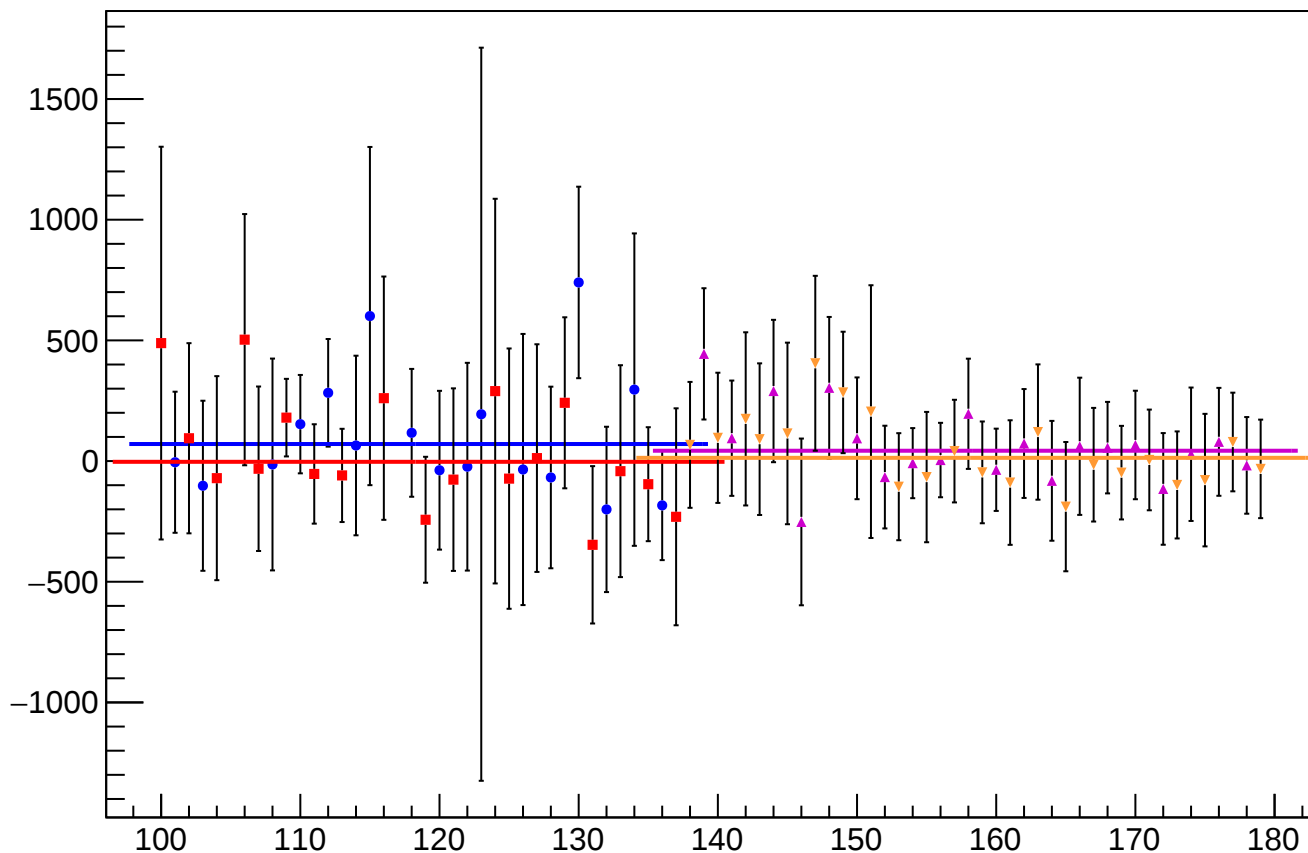
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.986 $\pm$ 0.003 χ^2 /NDF:157626.7/36

Out: 17.091 $\pm$ 0.002 χ^2 /NDF:183794.3/40

All: 17.040 $\pm$ 0.002 χ^2 /NDF: 342288.5/77

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634+/-80.409 χ^2/NDF : 7.2/16

Left Out: 13.393+/-53.451 χ^2/NDF : 4.9/21

Right Out: -3.063+/-71.508 χ^2/NDF : 6.2/18

Left In: 42.792+/-49.026 χ^2/NDF : 6.5/19

Left: 29.360+/-36.130 χ^2/NDF : 11.6/41

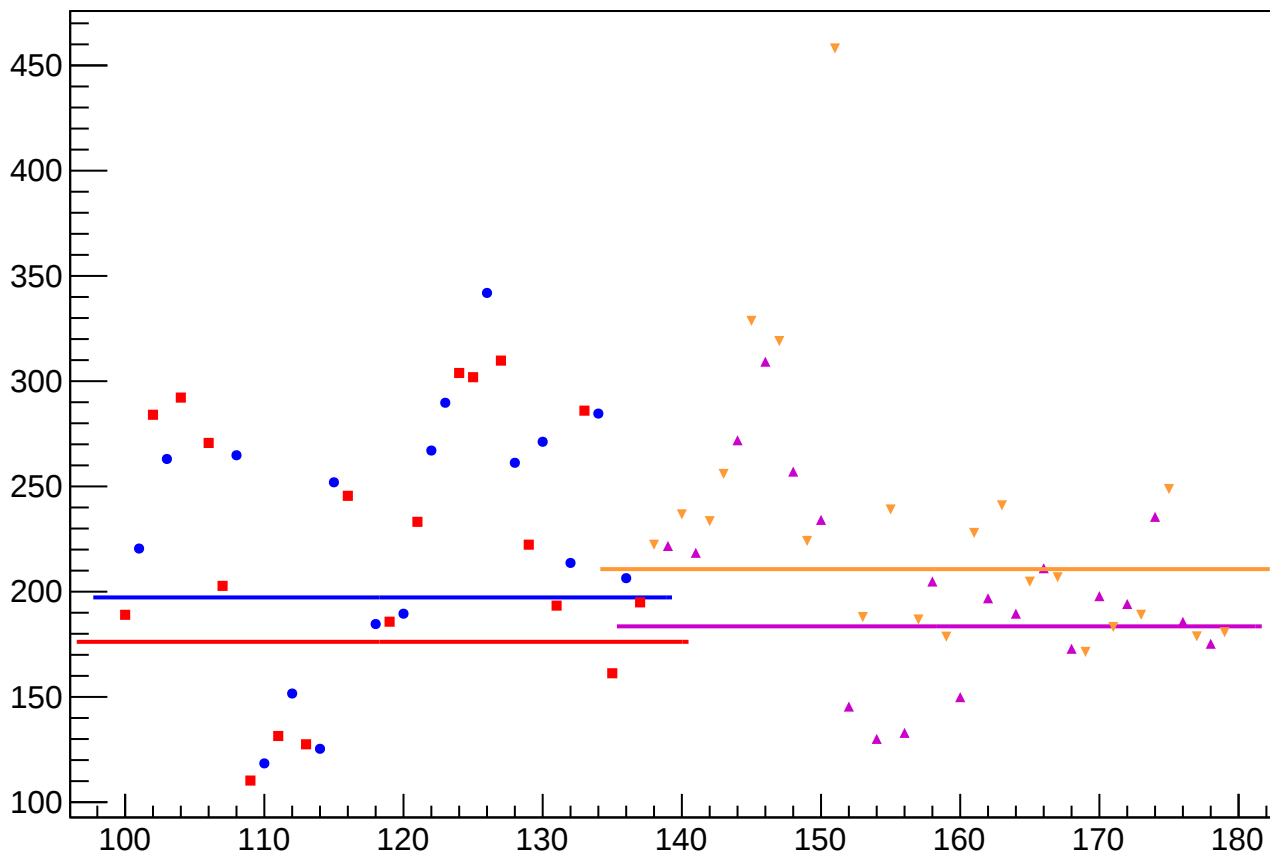
Right: 29.482+/-53.435 χ^2/NDF : 13.8/35

In: 50.338+/-41.859 χ^2/NDF : 13.8/36

Out: 7.494+/-42.812 χ^2/NDF : 11.1/40

All: 29.398+/-29.930 χ^2/NDF : 25.4/77

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271+/-0.057 χ^2/NDF : 969549.7/16

Left Out: 210.720+/-0.038 χ^2/NDF :1314592.3/21

Right Out: 176.181+/-0.051 χ^2/NDF : 1519707.5/18

Left In: 183.529+/-0.035 χ^2/NDF :1498709.9/19

Left: 195.953+/-0.026 χ^2/NDF : 3094400.5/41

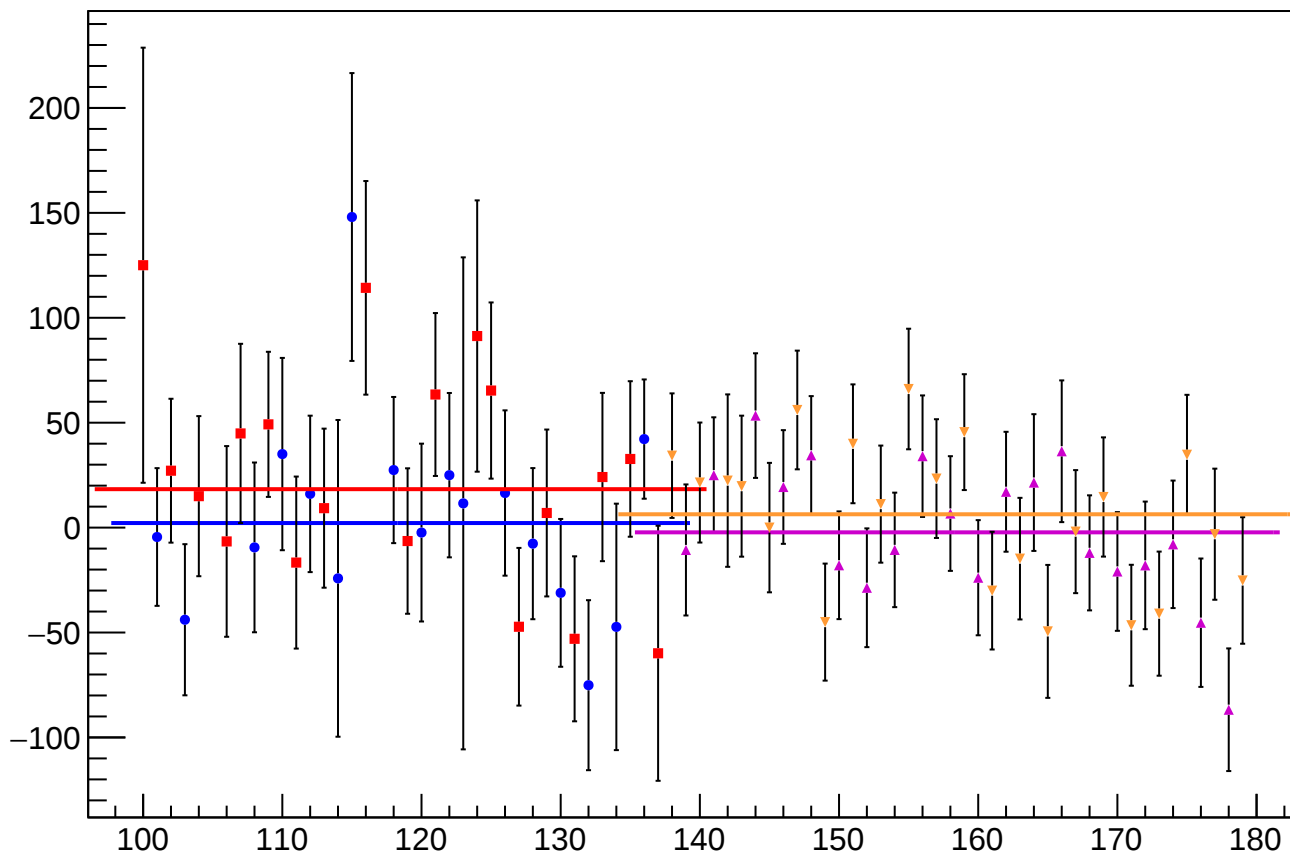
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 187.253+/-0.030 χ^2/NDF :2510846.5/36

Out: 198.339+/-0.030 χ^2/NDF :3133654.7/40

All: 192.671+/-0.021 χ^2/NDF : 5713066.4/77

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 $\pm$ 9.825 χ^2 /NDF: 15.4/16

Left Out: 6.357 $\pm$ 6.289 χ^2 /NDF:29.7/21

Right Out: 18.320 $\pm$ 9.497 χ^2 /NDF: 19.6/18

Left In: -2.257 $\pm$ 6.443 χ^2 /NDF:24.0/19

Left: 2.154 $\pm$ 4.500 χ^2 /NDF: 54.7/41

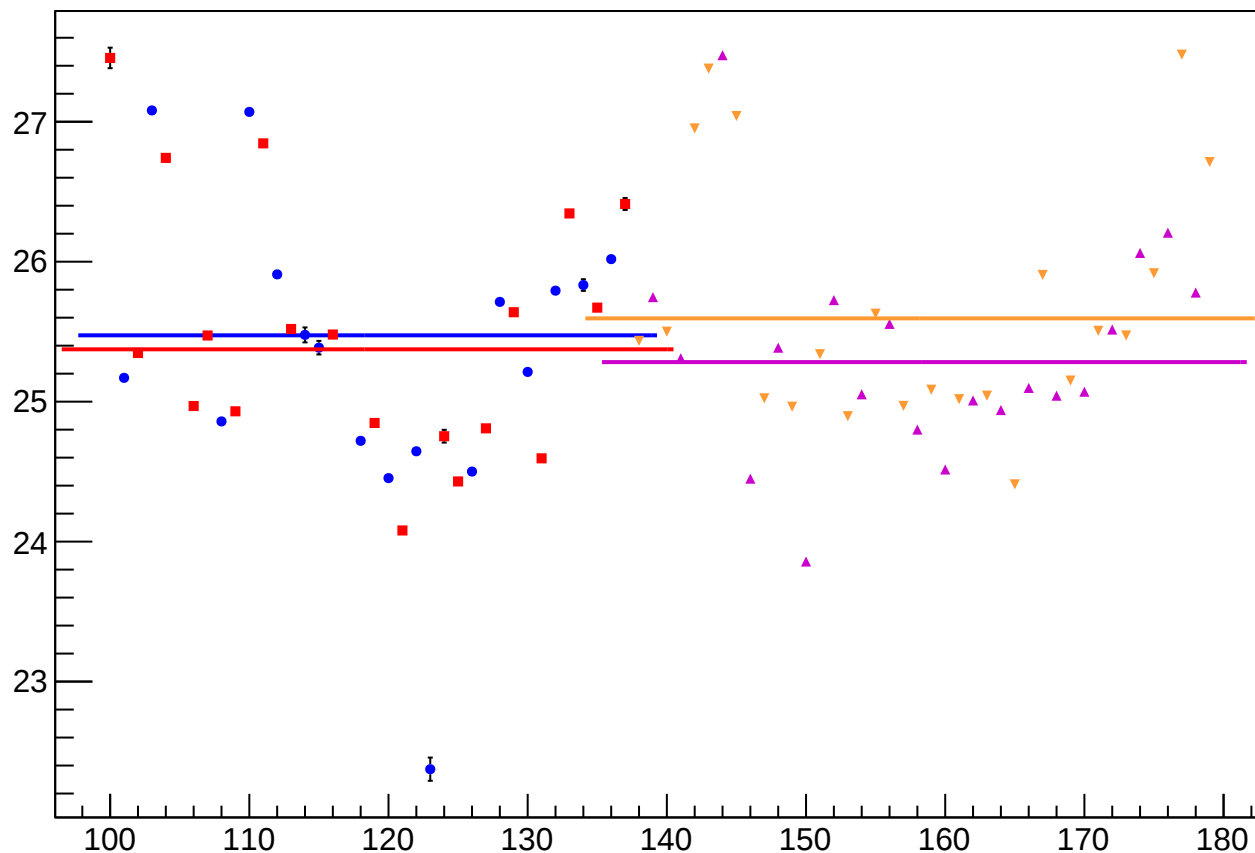
Right: 10.522 $\pm$ 6.828 χ^2 /NDF: 36.4/35

In: -0.924 $\pm$ 5.388 χ^2 /NDF:39.6/36

Out: 10.003 $\pm$ 5.243 χ^2 /NDF:50.4/40

All: 4.688 $\pm$ 3.758 χ^2 /NDF: 92.1/77

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: 25.595 $\pm$ 0.004 χ^2 /NDF:32635.4/21

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: 25.443 $\pm$ 0.003 χ^2 /NDF: 62037.3/41

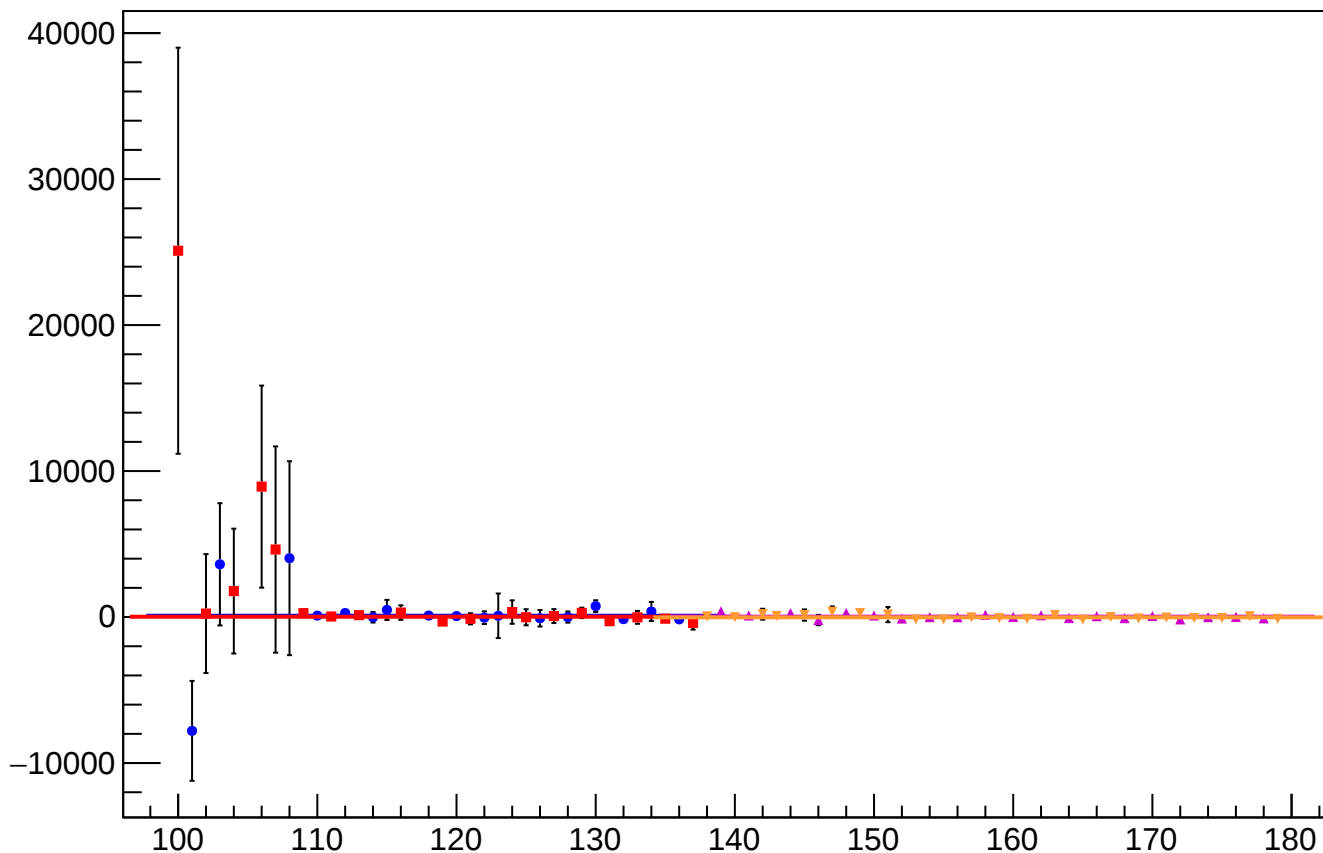
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.340 $\pm$ 0.004 χ^2 /NDF:41586.1/36

Out: 25.528 $\pm$ 0.004 χ^2 /NDF:46969.5/40

All: 25.436 $\pm$ 0.003 χ^2 /NDF: 89799.1/77

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: -19.781+/-53.295 χ^2/NDF : 5.4/21

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: 5.669+/-36.287 χ^2/NDF : 12.2/41

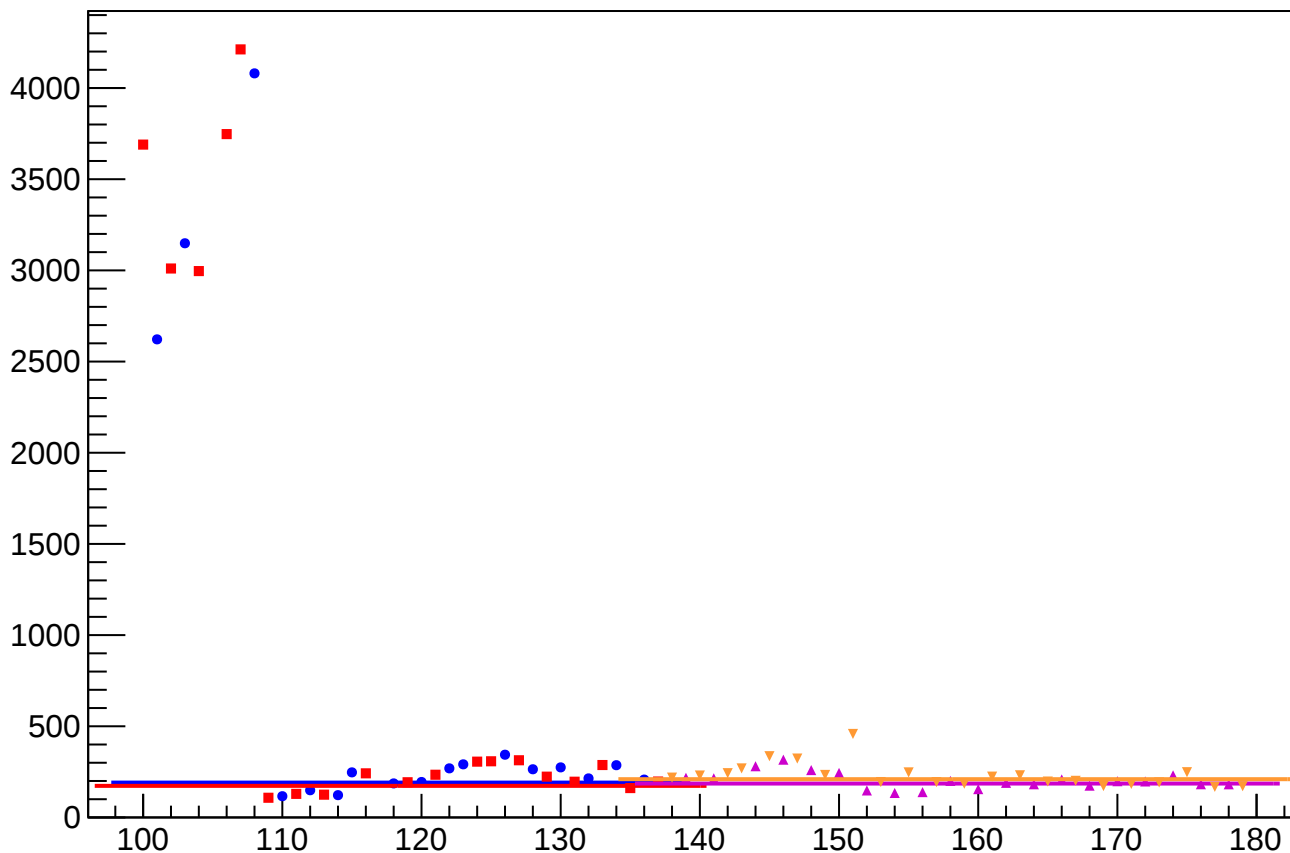
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 42.672+/-43.129 χ^2/NDF : 19.1/36

Out: -6.951+/-44.506 χ^2/NDF : 17.5/40

All: 18.640+/-30.972 χ^2/NDF : 37.2/77

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: 209.868+/-0.038 χ^2/NDF : 1409798.5/21

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: 197.036+/-0.026 χ^2/NDF : 2999739.0/41

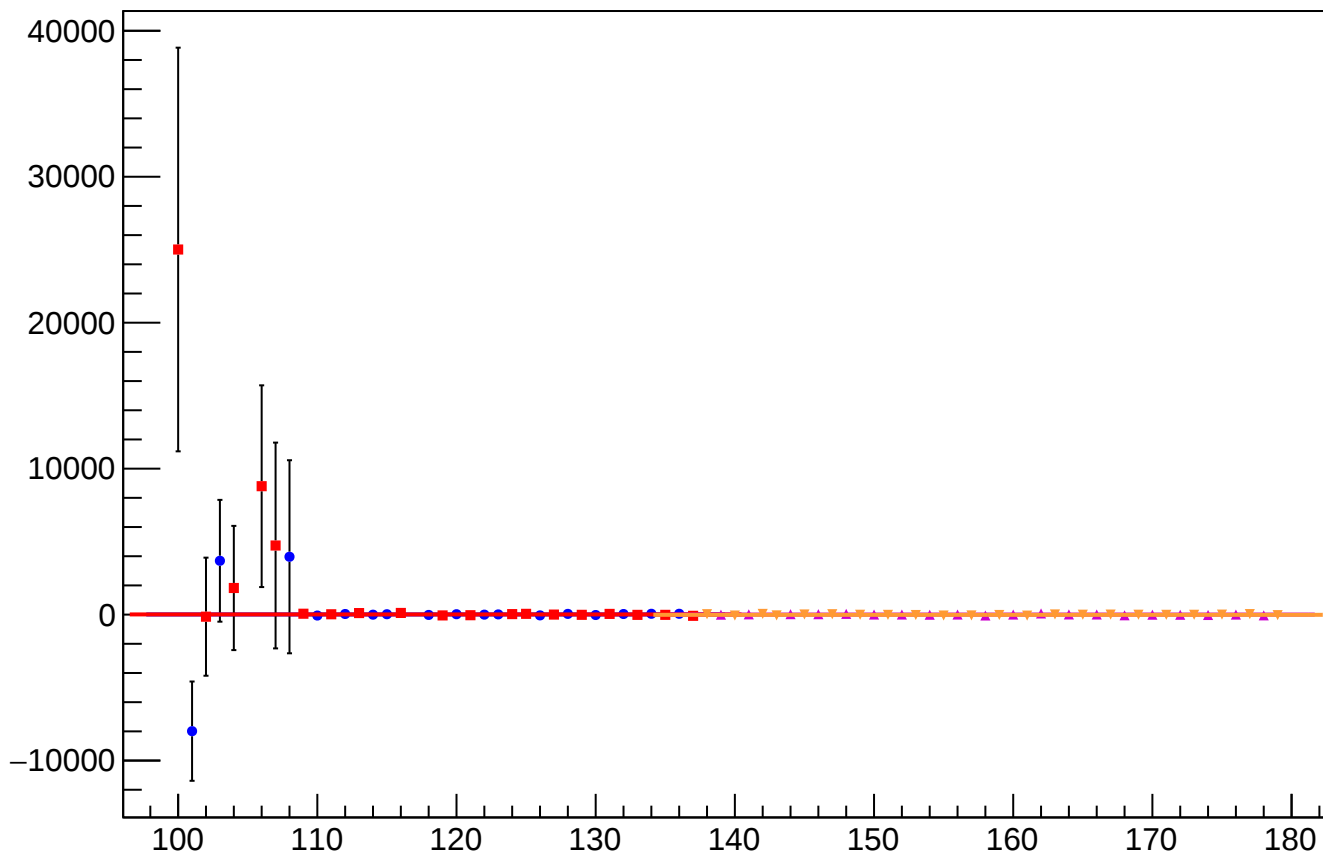
Right: 181.515+/-0.042 χ^2/NDF : 7824096.2/35

In: 187.217+/-0.030 χ^2/NDF : 4950982.5/36

Out: 198.792+/-0.031 χ^2/NDF : 5902421.3/40

All: 192.822+/-0.022 χ^2/NDF : 10923168.5/77

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: -14.957+/-7.075 χ^2/NDF :19.4/21

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: -6.722+/-5.095 χ^2/NDF : 43.4/41

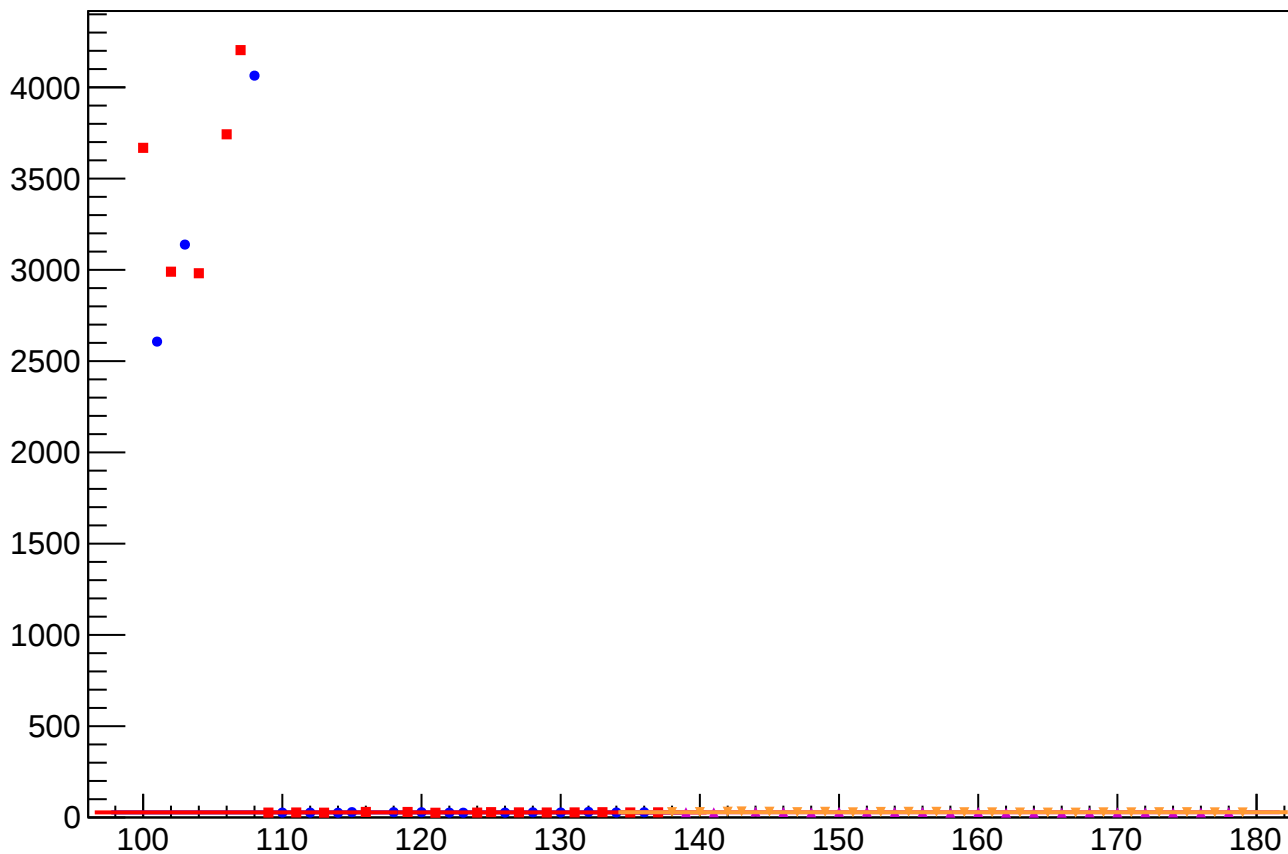
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 4.348+/-6.290 χ^2/NDF :39.8/36

Out: -7.958+/-6.124 χ^2/NDF :47.7/40

All: -1.971+/-4.388 χ^2/NDF : 89.4/77

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: 28.747 $\pm$ 0.005 χ^2 /NDF: 101788.6/21

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: 28.746 $\pm$ 0.004 χ^2 /NDF: 221904.3/41

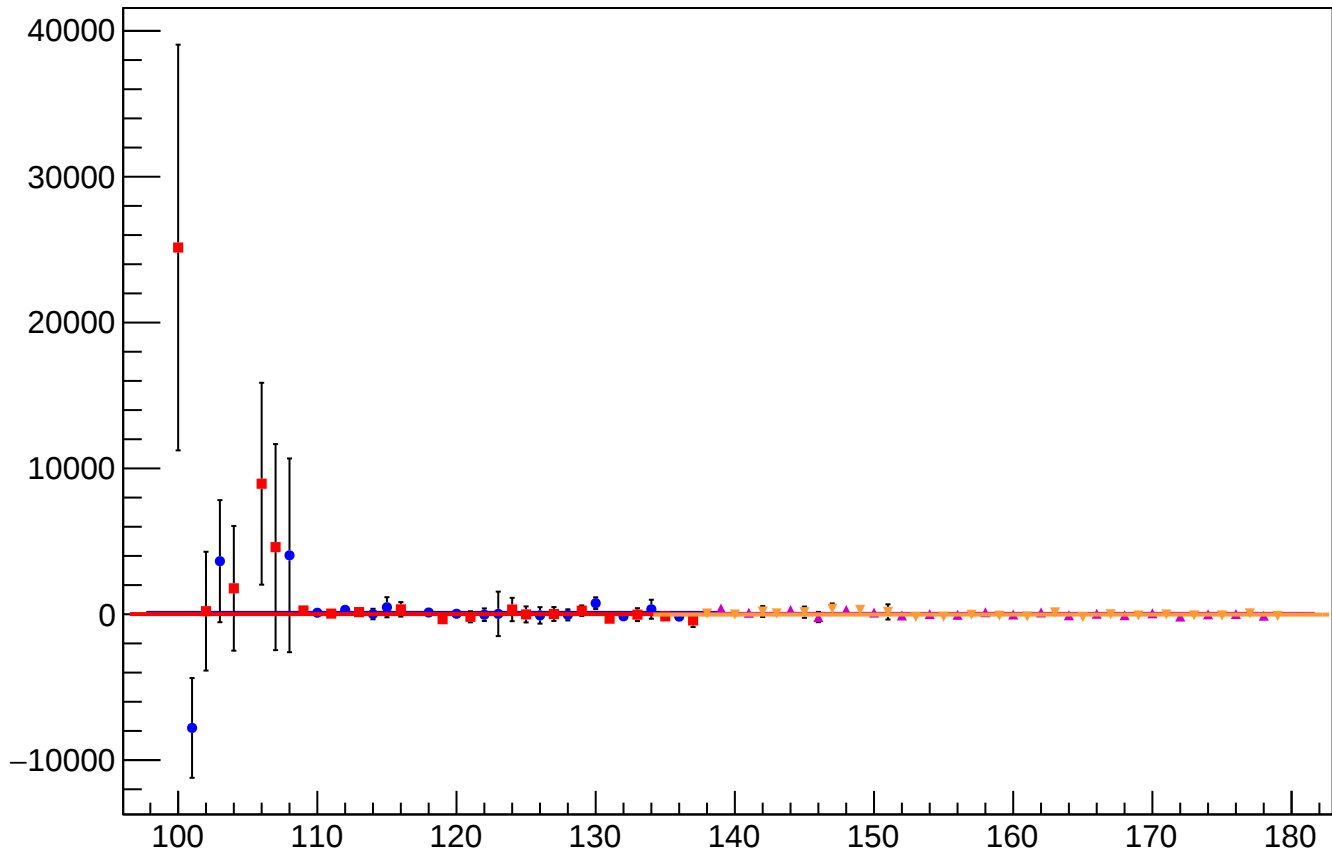
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.503 $\pm$ 0.004 χ^2 /NDF: 3155161.7/36

Out: 28.483 $\pm$ 0.004 χ^2 /NDF: 3589704.1/40

All: 28.493 $\pm$ 0.003 χ^2 /NDF: 6744876.7/77

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840+/-87.359 χ^2/NDF : 12.6/16

Left Out: -21.980+/-53.170 χ^2/NDF : 6.0/21

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: 3.829+/-36.207 χ^2/NDF : 12.9/41

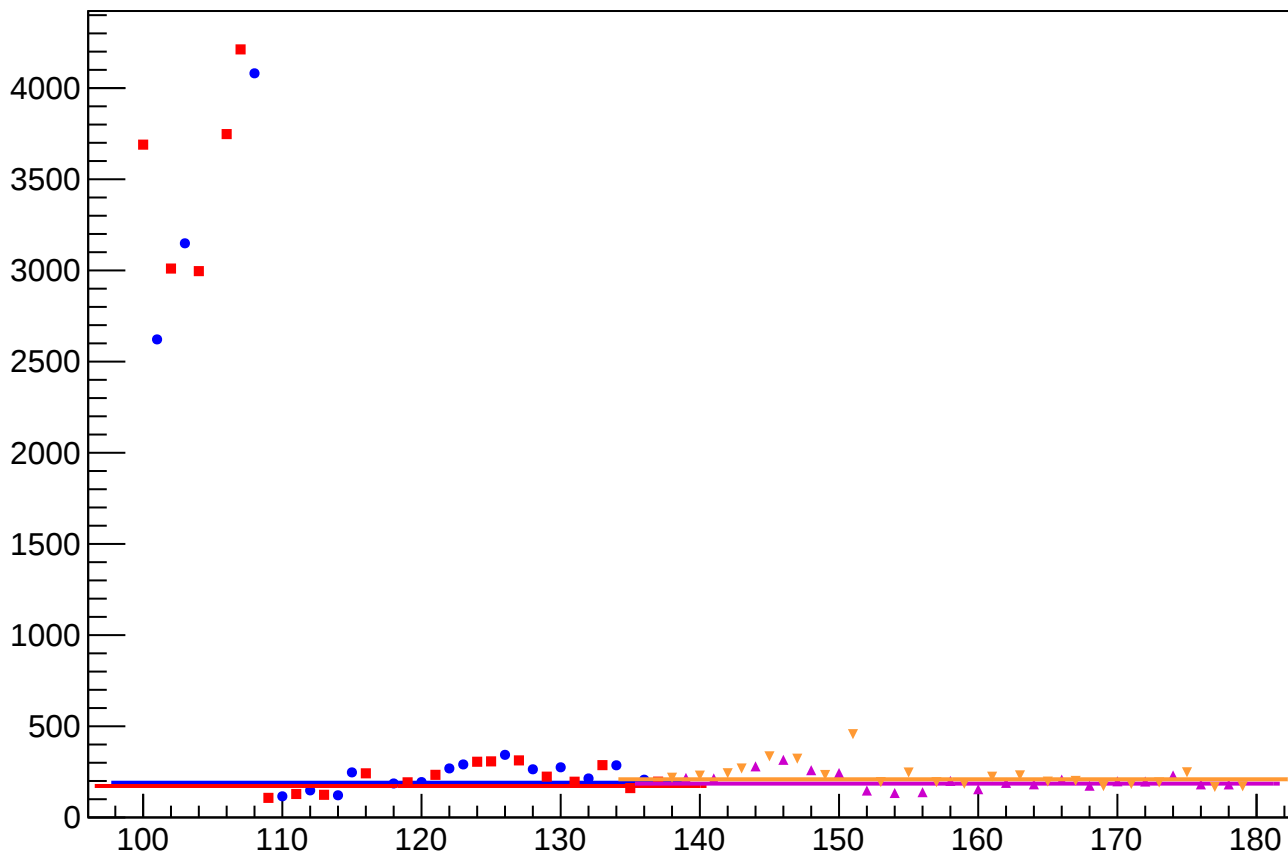
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 42.326+/-43.029 χ^2/NDF : 19.5/36

Out: -11.450+/-44.389 χ^2/NDF : 18.8/40

All: 16.275+/-30.896 χ^2/NDF : 39.0/77

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: 209.368+/-0.038 χ^2/NDF :1411803.9/21

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: 196.601+/-0.026 χ^2/NDF : 3000559.1/41

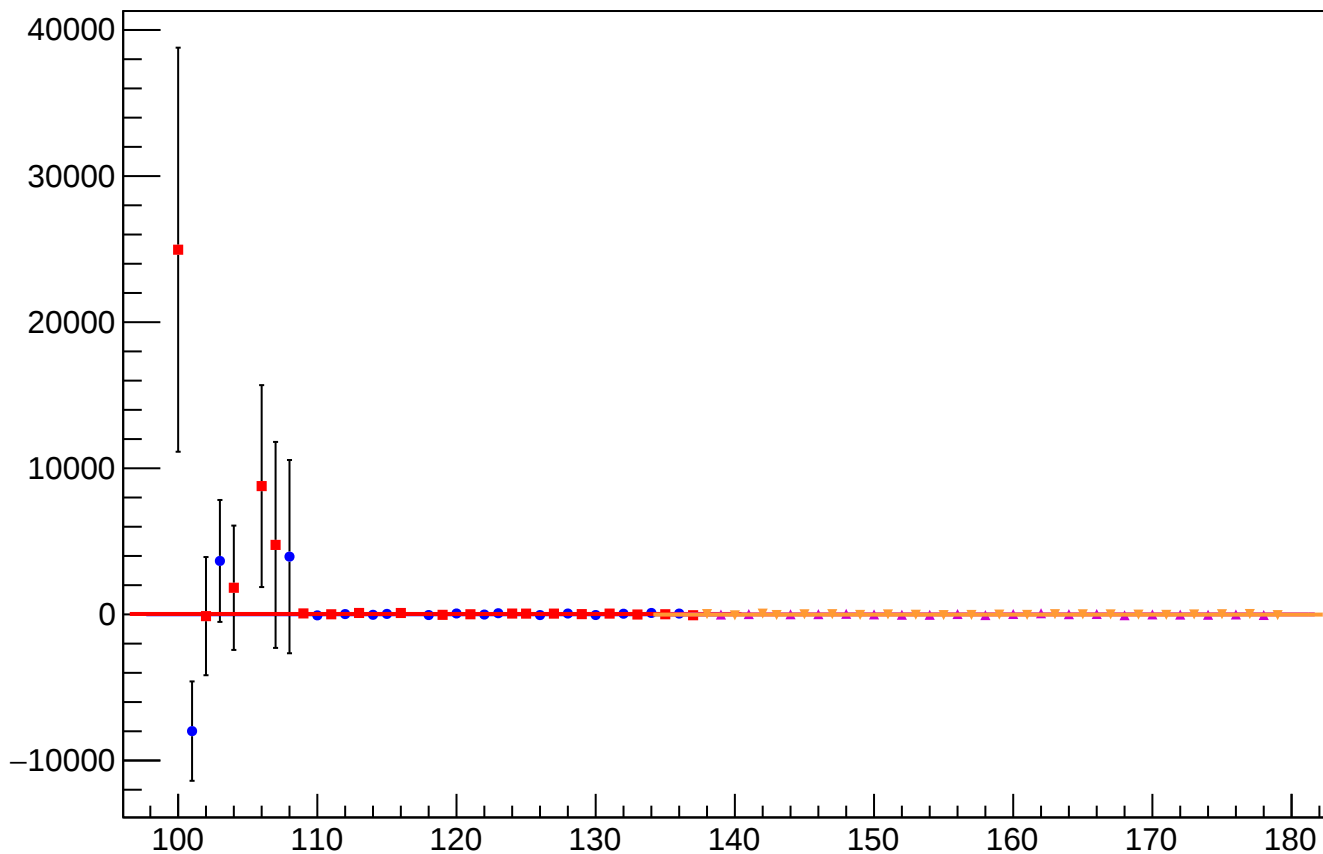
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 186.755+/-0.030 χ^2/NDF :4962096.5/36

Out: 198.228+/-0.031 χ^2/NDF :5919965.9/40

All: 192.313+/-0.022 χ^2/NDF : 10950937.3/77

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: -12.964 $\pm$ 7.111 χ^2 /NDF:14.5/21

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: -5.968 $\pm$ 5.120 χ^2 /NDF: 36.5/41

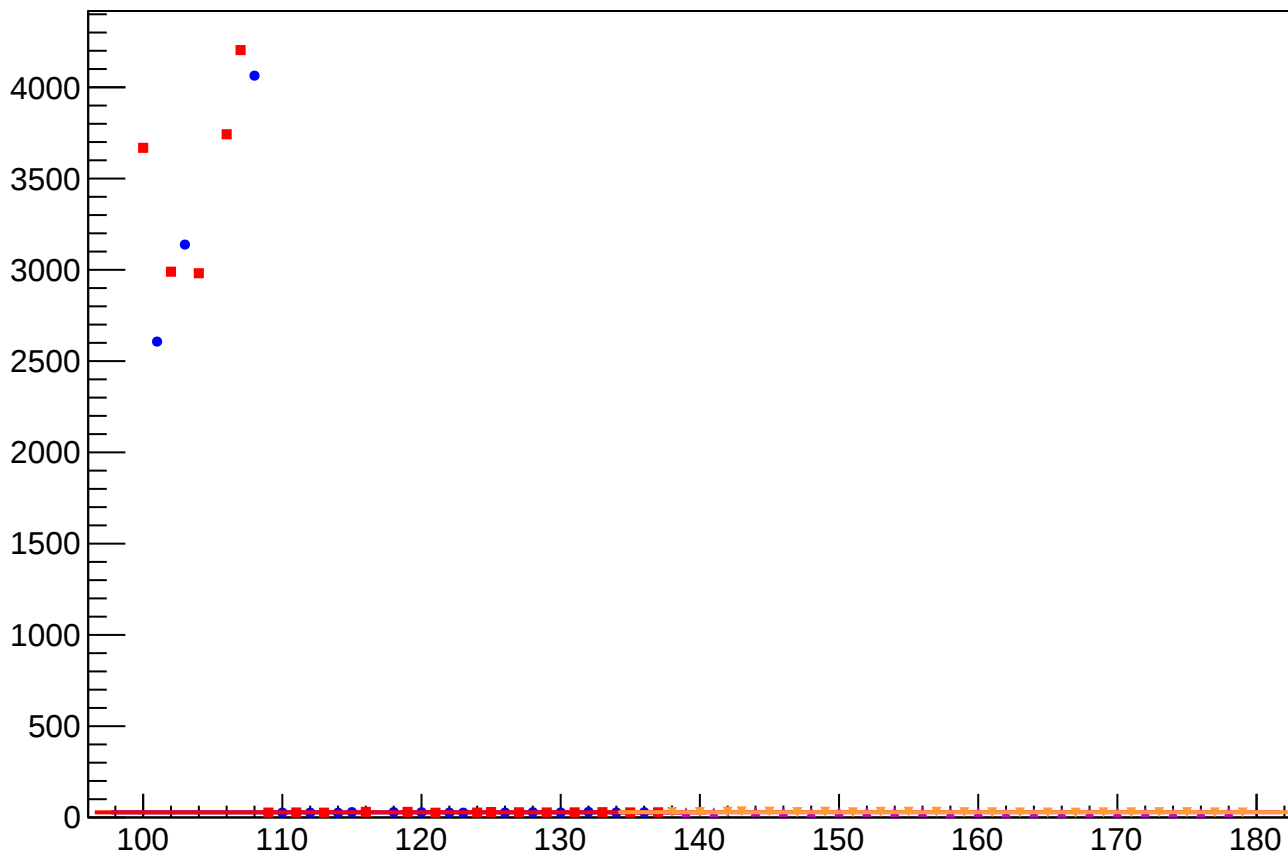
Right: 19.569 $\pm$ 8.698 χ^2 /NDF: 41.1/35

In: 3.699 $\pm$ 6.324 χ^2 /NDF:43.5/36

Out: -2.332 $\pm$ 6.160 χ^2 /NDF:39.9/40

All: 0.604 $\pm$ 4.413 χ^2 /NDF: 84.0/77

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: 28.887+/-0.005 χ^2 /NDF:111736.3/21

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: 28.885+/-0.004 χ^2 /NDF: 235307.6/41

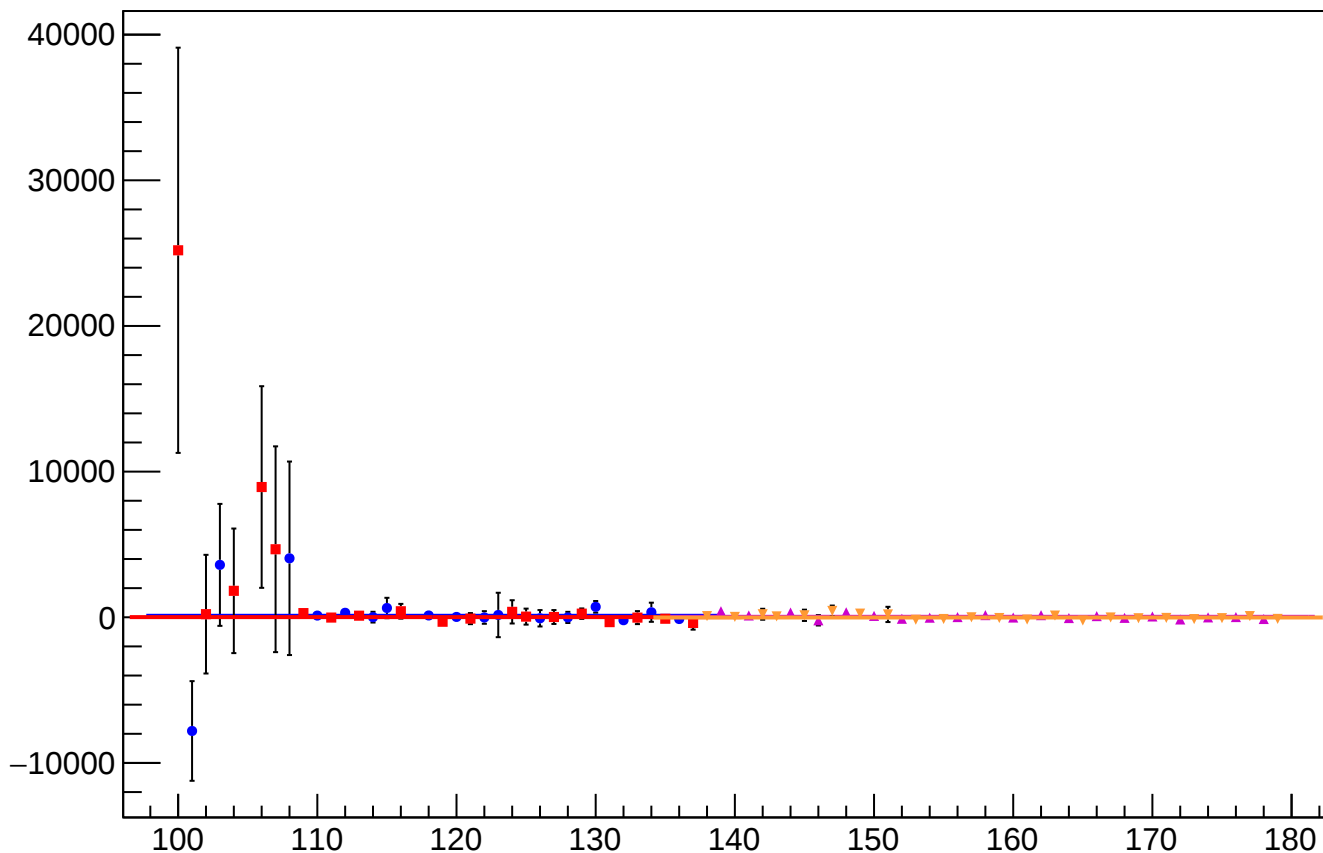
Right: 27.970+/-0.006 χ^2 /NDF: 6506687.7/35

In: 28.655+/-0.004 χ^2 /NDF:3157798.3/36

Out: 28.645+/-0.004 χ^2 /NDF:3600643.4/40

All: 28.650+/-0.003 χ^2 /NDF: 6758444.3/77

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: -14.047 $\pm$ 53.732 χ^2 /NDF:6.0/21

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: 10.136 $\pm$ 36.614 χ^2 /NDF: 13.6/41

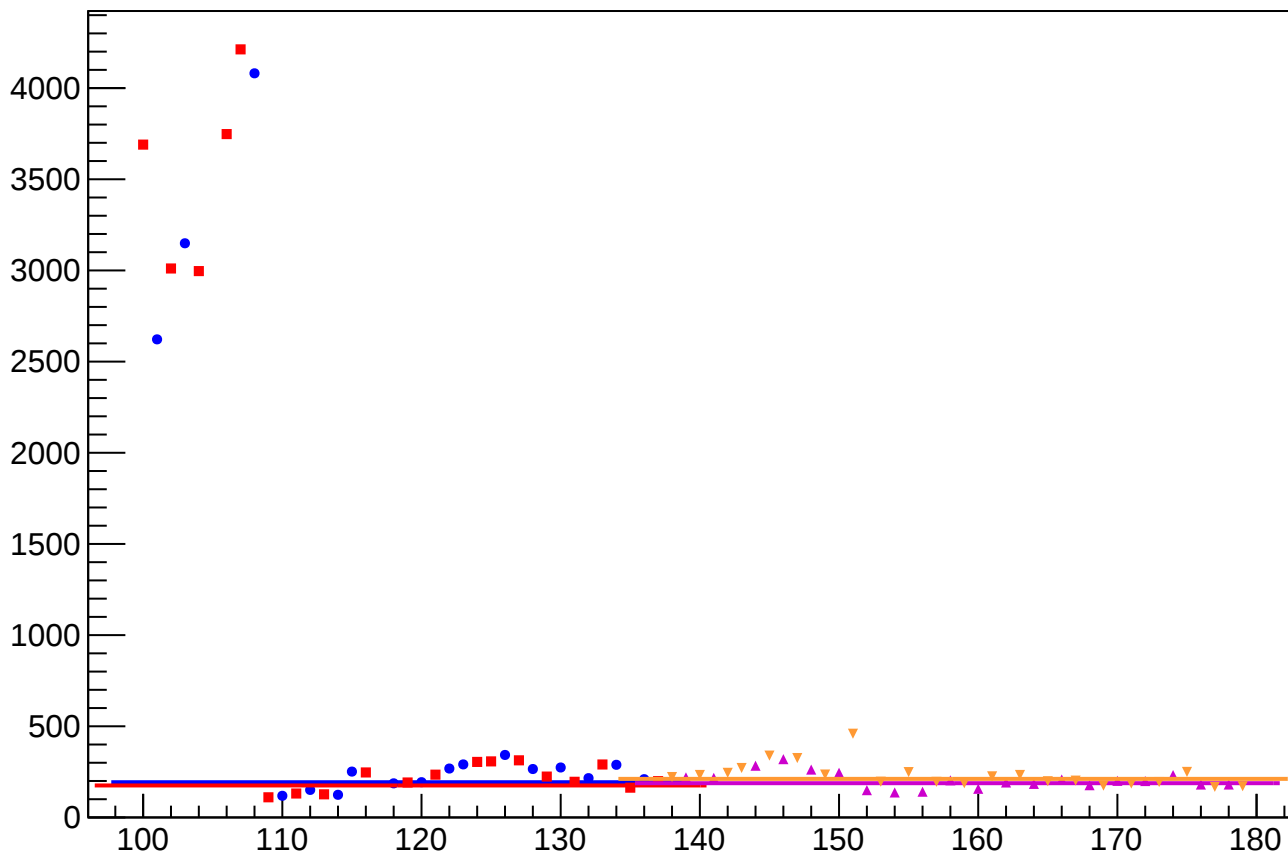
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 48.245 $\pm$ 43.538 χ^2 /NDF:20.1/36

Out: -6.419 $\pm$ 44.898 χ^2 /NDF:18.3/40

All: 21.754 $\pm$ 31.256 χ^2 /NDF: 39.2/77

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: 211.626+/-0.038 χ^2/NDF : 1413118.1/21

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: 198.917+/-0.026 χ^2/NDF : 2967149.1/41

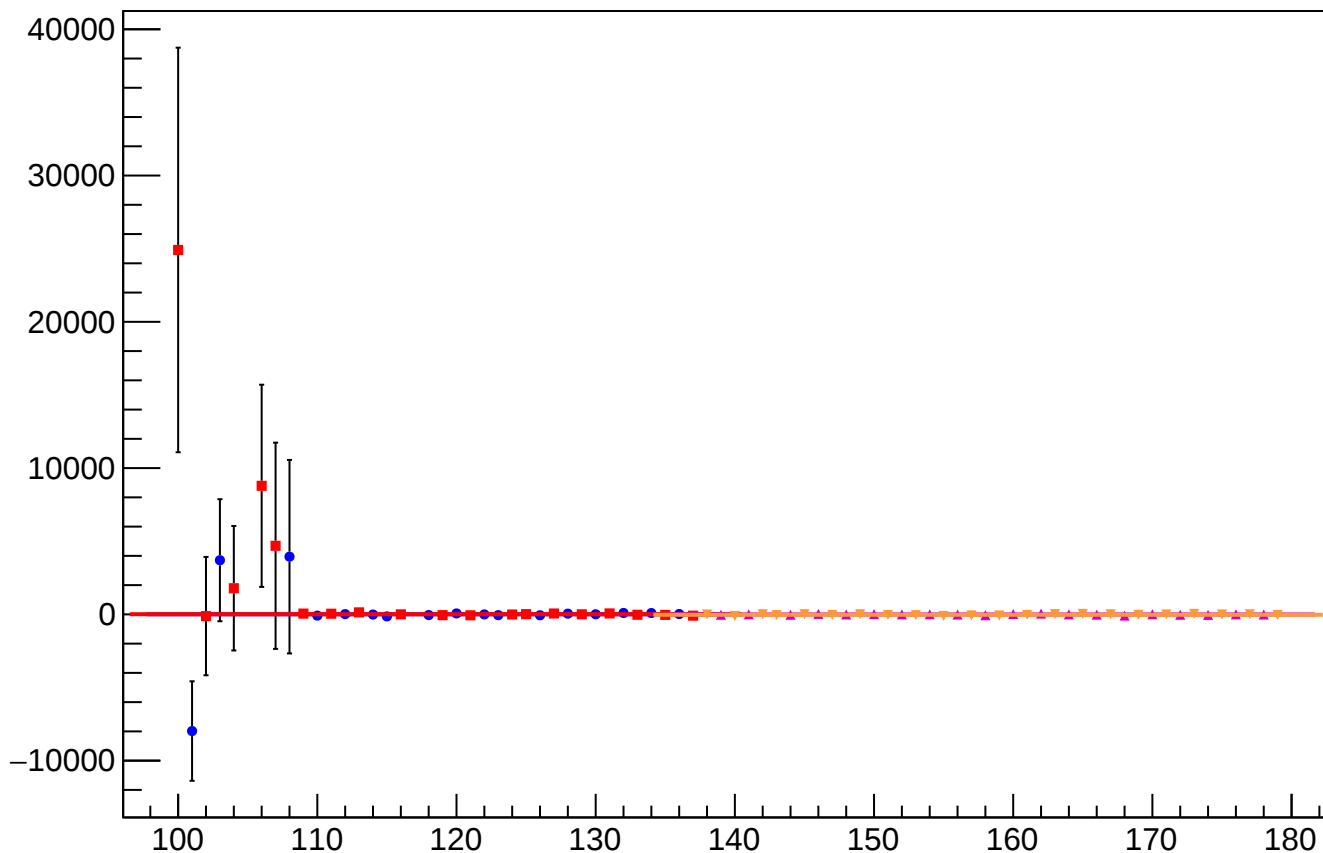
Right: 183.645+/-0.042 χ^2/NDF : 7744773.8/35

In: 189.183+/-0.031 χ^2/NDF : 4886695.0/36

Out: 200.719+/-0.032 χ^2/NDF : 5851579.6/40

All: 194.774+/-0.022 χ^2/NDF : 10806317.6/77

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651 $\pm$ 14.935 χ^2 /NDF: 20.4/16

Left Out: -25.722 $\pm$ 8.507 χ^2 /NDF:22.4/21

Right Out: 12.487 $\pm$ 14.947 χ^2 /NDF: 21.7/18

Left In: -5.070 $\pm$ 8.845 χ^2 /NDF:12.8/19

Left: -15.798 $\pm$ 6.131 χ^2 /NDF: 38.1/41

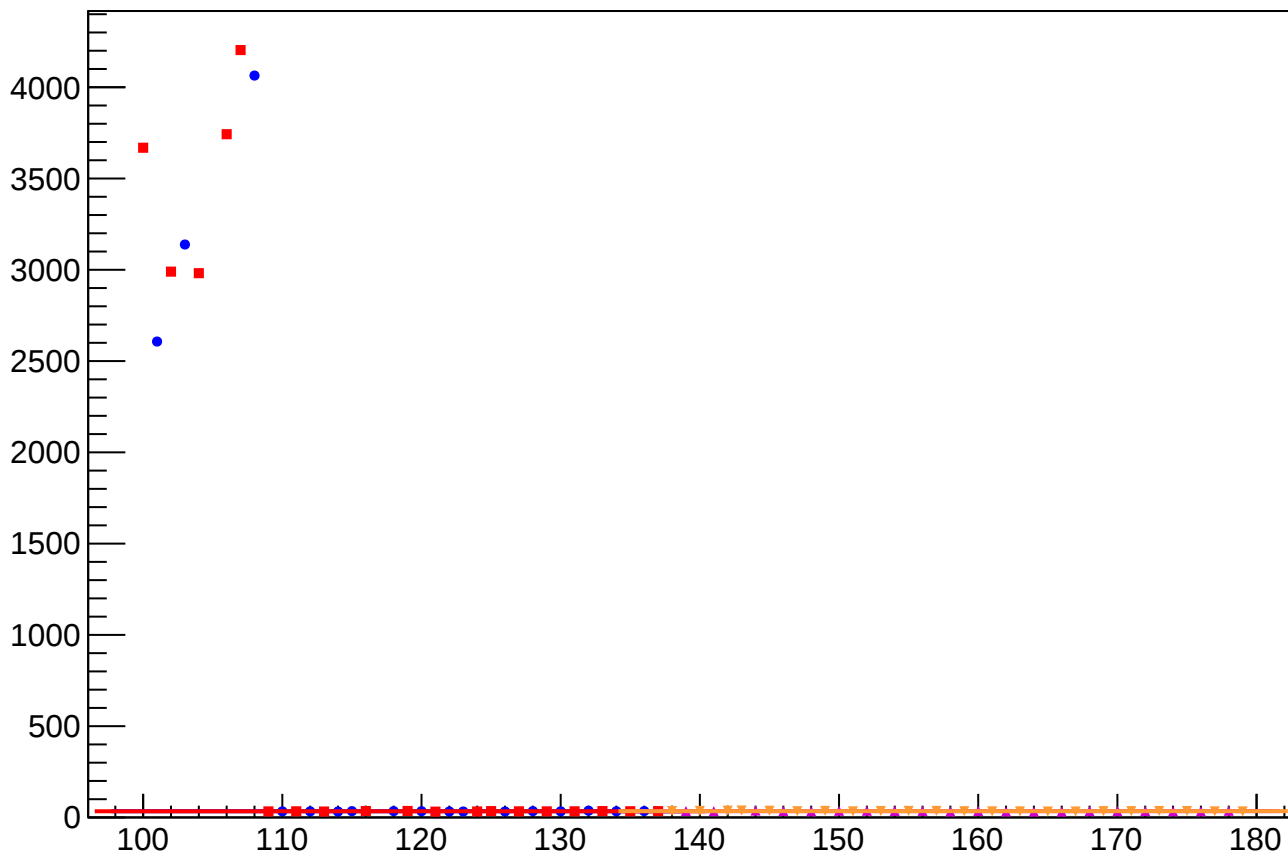
Right: 8.566 $\pm$ 10.565 χ^2 /NDF: 42.2/35

In: -2.546 $\pm$ 7.610 χ^2 /NDF:33.6/36

Out: -16.373 $\pm$ 7.393 χ^2 /NDF:49.0/40

All: -9.659 $\pm$ 5.303 χ^2 /NDF: 84.3/77

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: 34.613 $\pm$ 0.006 χ^2 /NDF: 53413.8/21

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: 34.647 $\pm$ 0.004 χ^2 /NDF: 112117.3/41

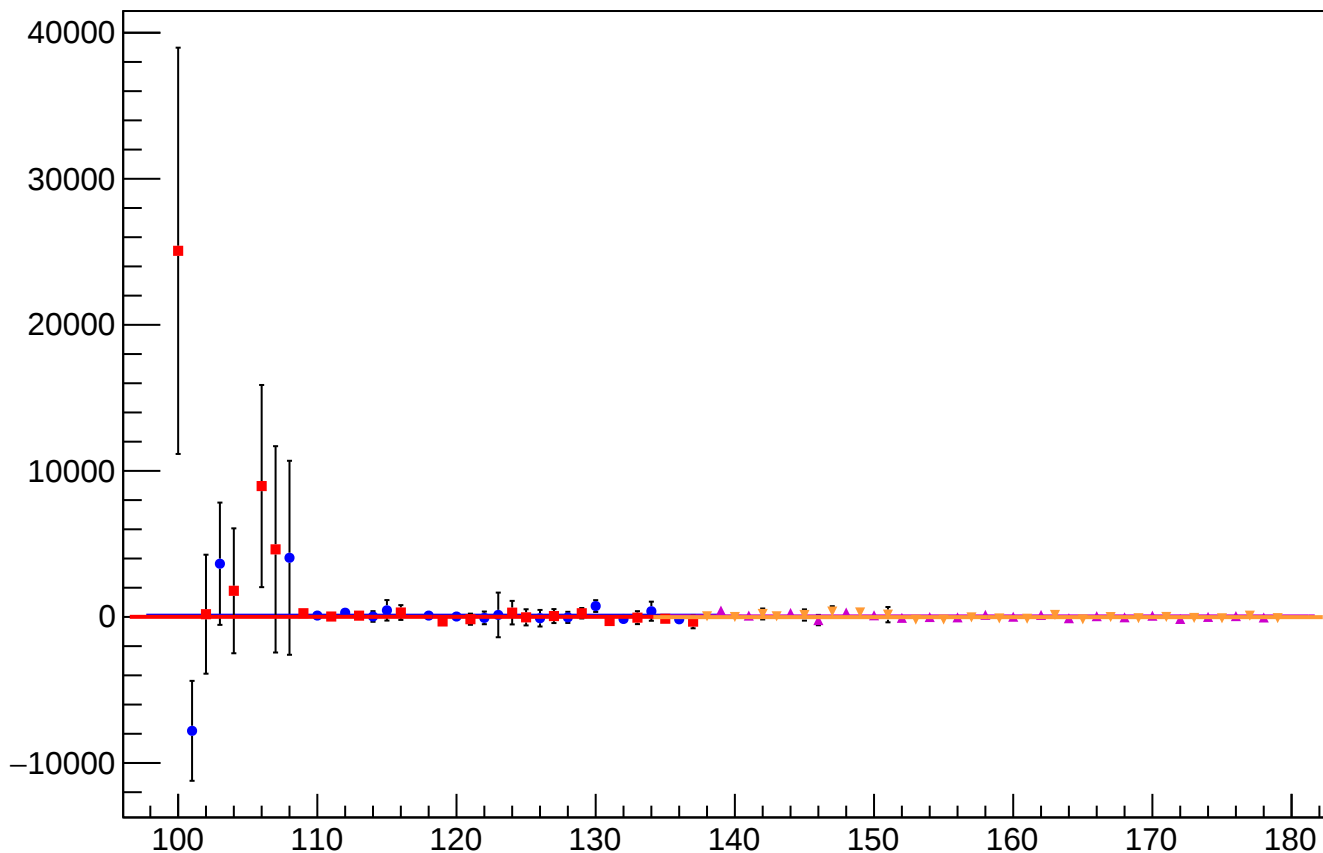
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.542 $\pm$ 0.005 χ^2 /NDF: 3066866.4/36

Out: 34.442 $\pm$ 0.005 χ^2 /NDF: 3508623.6/40

All: 34.490 $\pm$ 0.004 χ^2 /NDF: 6575666.7/77

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: -14.564+/-53.706 χ^2/NDF : 5.8/21

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: 14.441+/-36.592 χ^2/NDF : 12.5/41

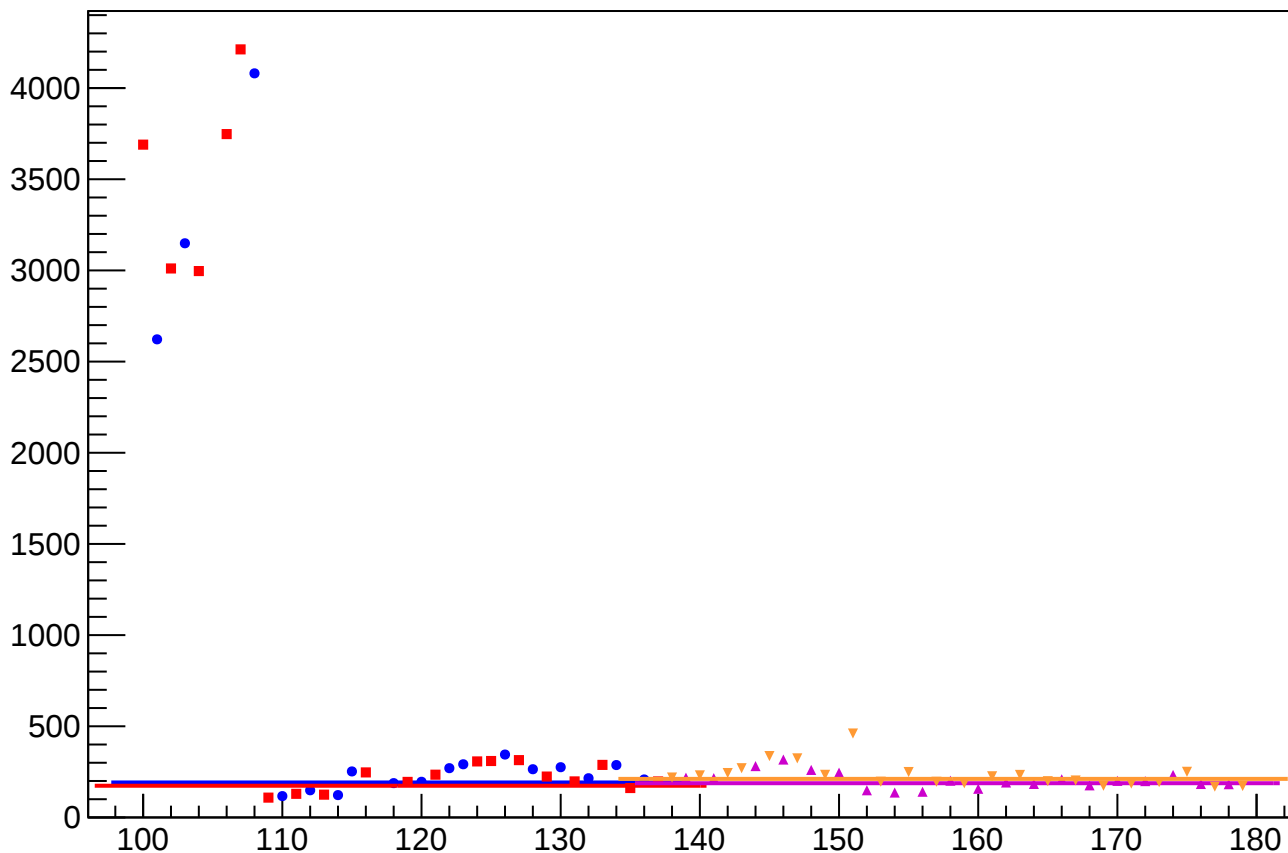
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 50.921+/-43.461 χ^2/NDF : 18.8/36

Out: -7.912+/-44.796 χ^2/NDF : 16.9/40

All: 22.394+/-31.193 χ^2/NDF : 36.6/77

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: 211.580+/-0.038 χ^2/NDF :1389362.0/21

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: 198.827+/-0.026 χ^2/NDF : 2932523.0/41

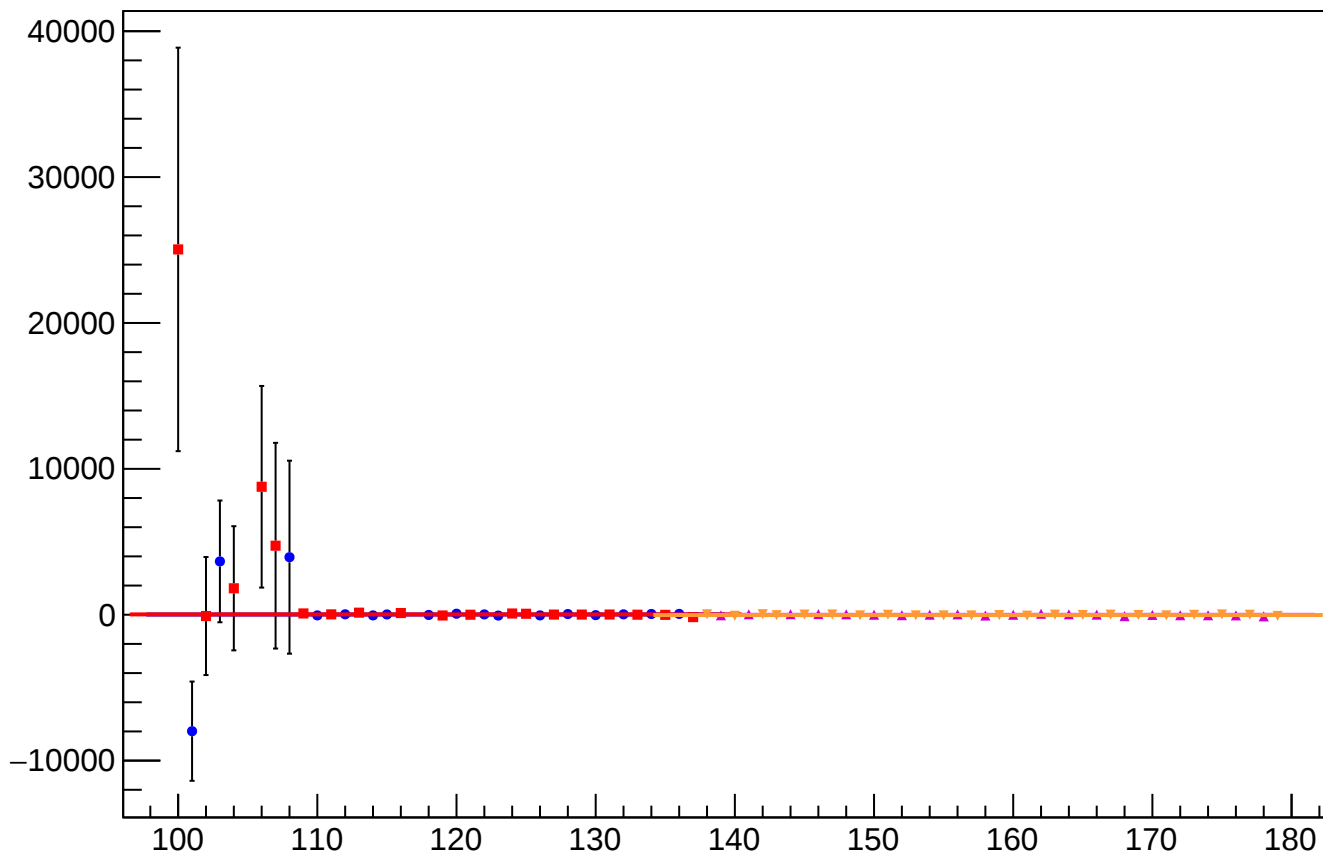
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 188.778+/-0.031 χ^2/NDF :4908991.7/36

Out: 200.124+/-0.032 χ^2/NDF :5899875.2/40

All: 194.279+/-0.022 χ^2/NDF : 10874953.2/77

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.121+/-13.618 χ^2/NDF : 15.2/16

Left Out: -21.033+/-7.744 χ^2/NDF : 16.9/21

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: -14.848+/-5.575 χ^2/NDF : 51.1/41

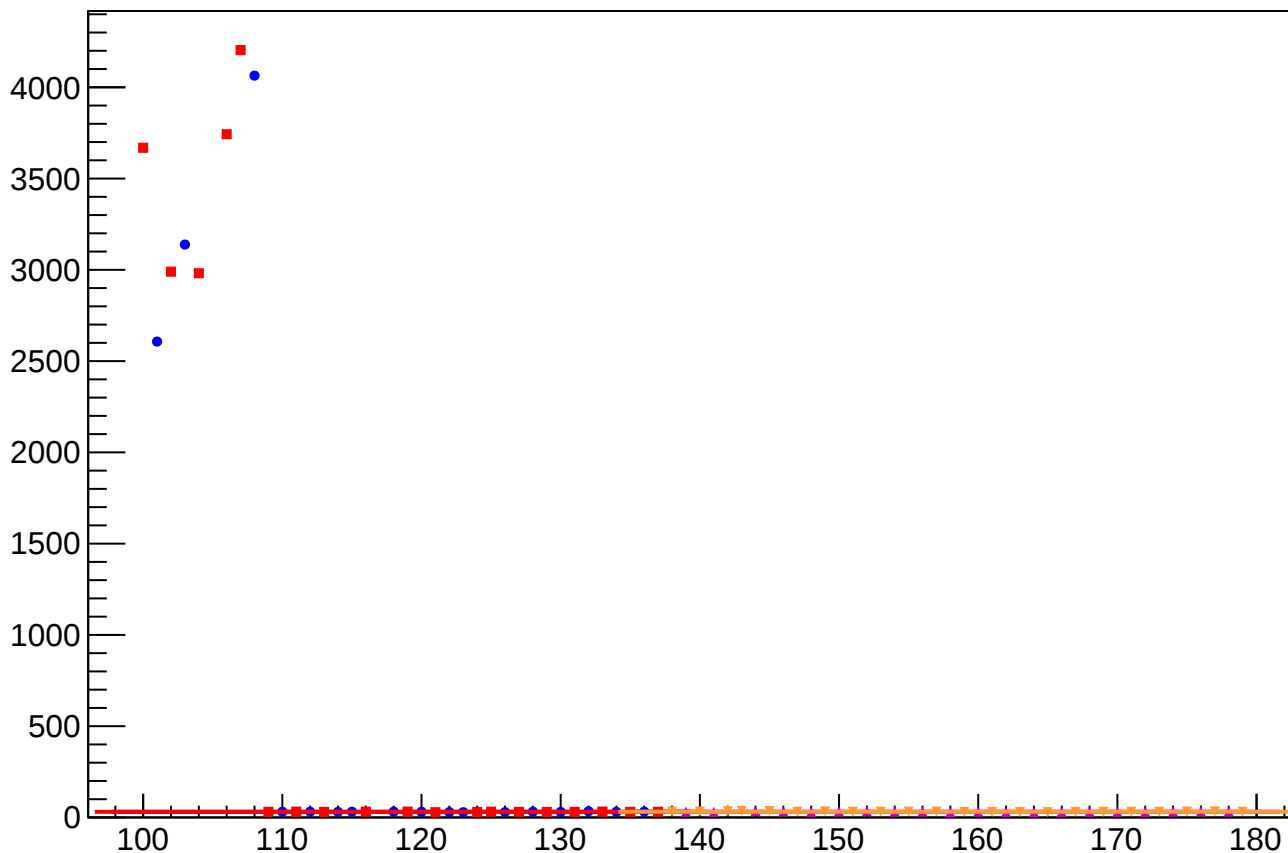
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: -2.436+/-6.918 χ^2/NDF : 50.1/36

Out: -10.227+/-6.736 χ^2/NDF : 52.4/40

All: -6.435+/-4.826 χ^2/NDF : 103.1/77

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: 31.484 $\pm$ 0.005 χ^2 /NDF: 76615.1/21

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: 31.472 $\pm$ 0.004 χ^2 /NDF: 163639.5/41

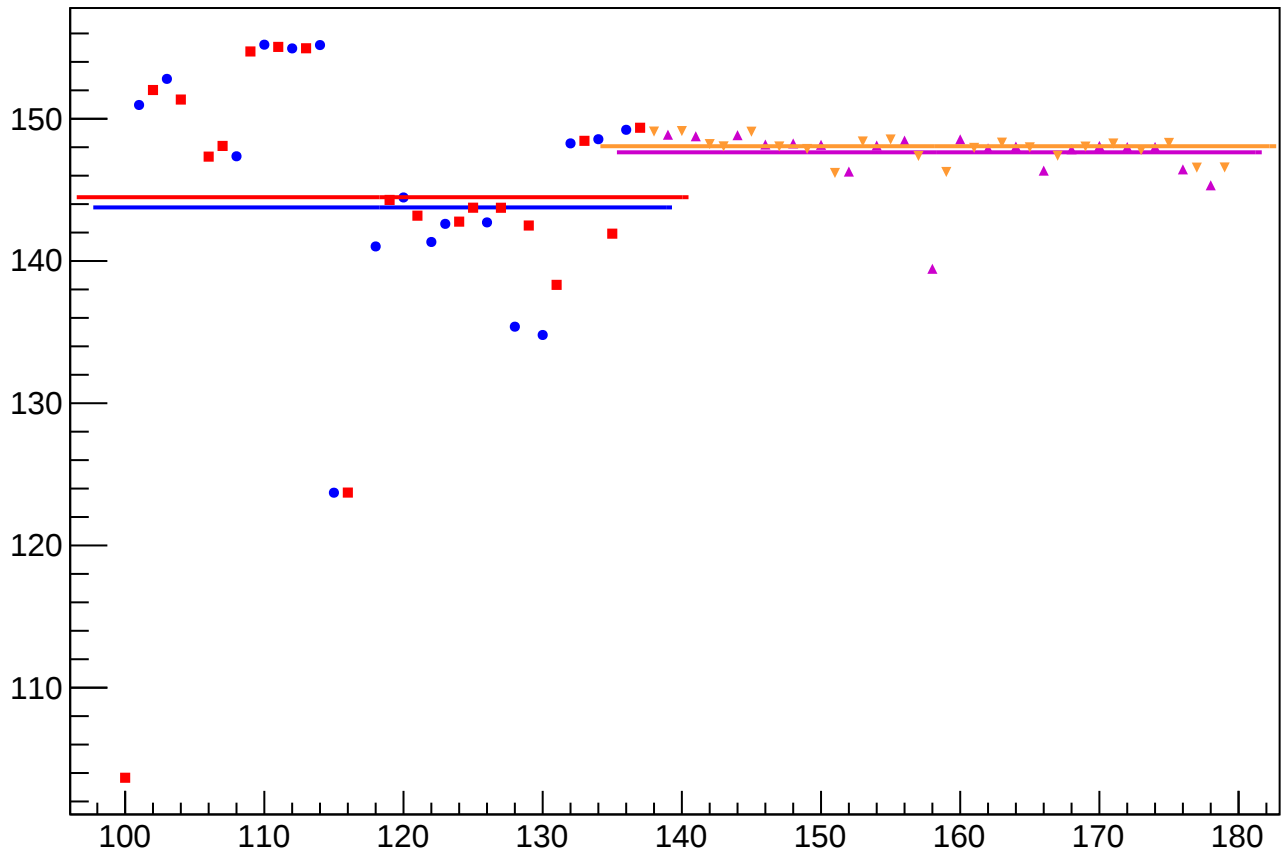
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.373 $\pm$ 0.005 χ^2 /NDF: 3102320.3/36

Out: 31.357 $\pm$ 0.005 χ^2 /NDF: 3537764.3/40

All: 31.365 $\pm$ 0.003 χ^2 /NDF: 6640089.7/77

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.071 $\pm$ 0.000 χ^2 /NDF: 65515368.5/21

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: 147.866 $\pm$ 0.000 χ^2 /NDF: 416643974.3/41

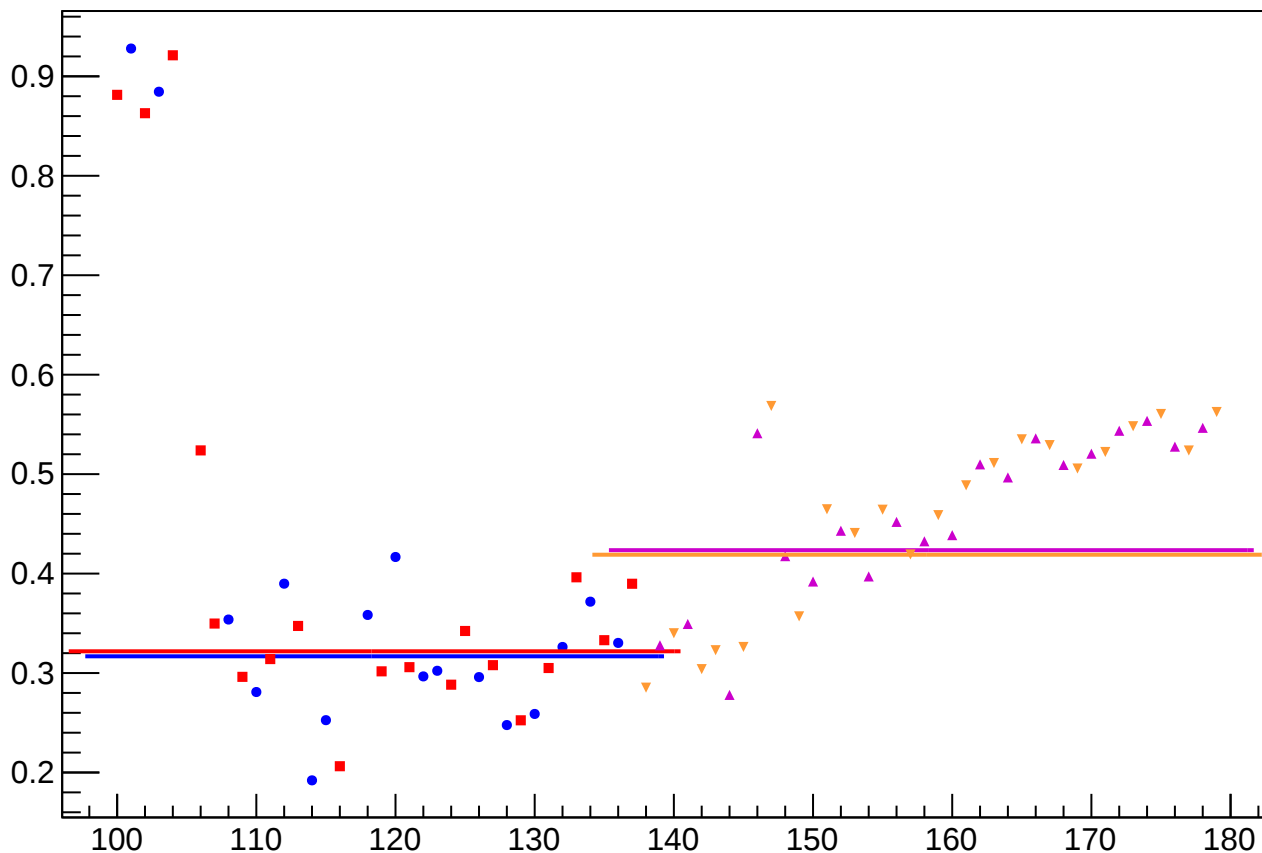
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 146.053 $\pm$ 0.000 χ^2 /NDF: 4368246861.8/36

Out: 146.658 $\pm$ 0.000 χ^2 /NDF: 4689793613.7/40

All: 146.364 $\pm$ 0.000 χ^2 /NDF: 9083582579.5

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2/NDF : 1278613.2/16

Left Out: 0.419 $\pm$ 0.000 χ^2/NDF :1590479.3/21

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: 0.421 $\pm$ 0.000 χ^2/NDF : 2834132.3/41

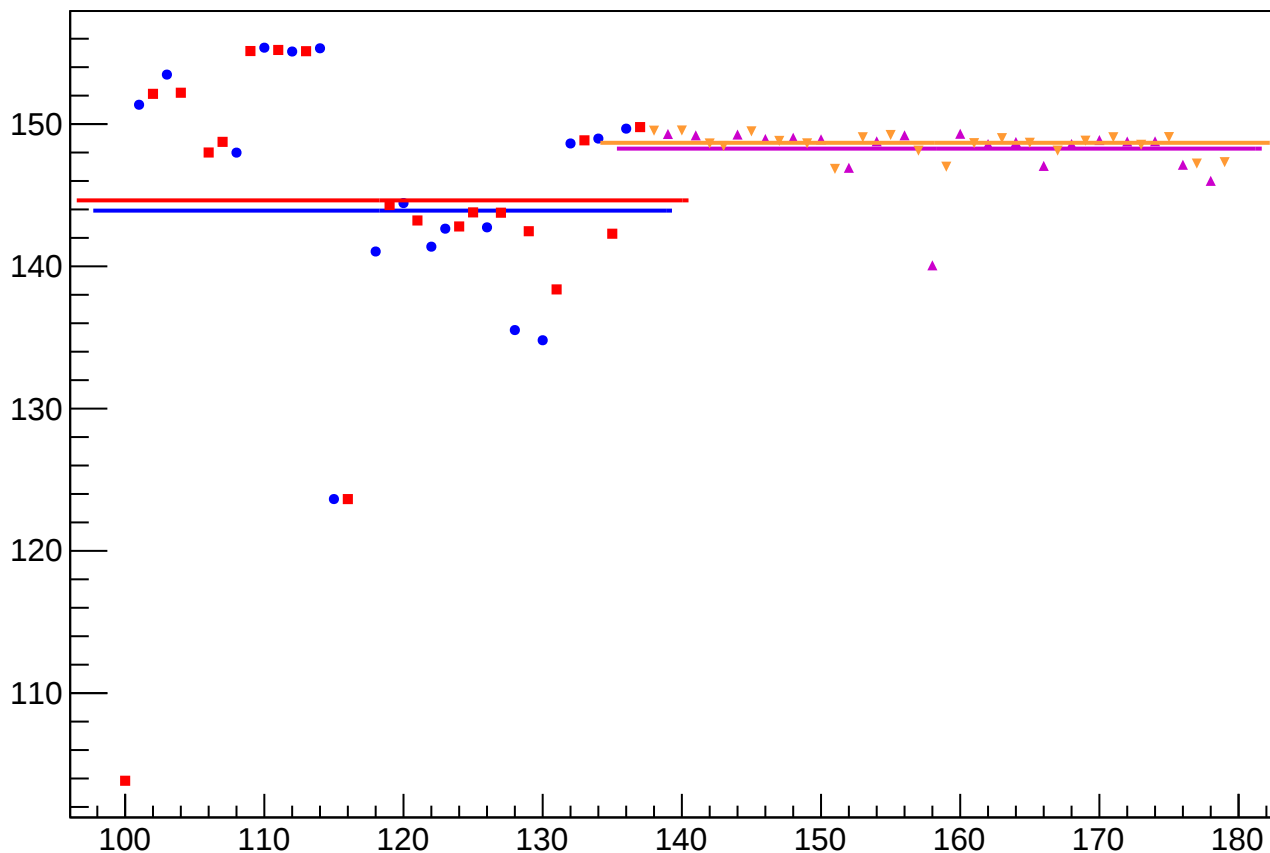
Right: 0.319 $\pm$ 0.000 χ^2/NDF : 2497805.1/35

In: 0.380 $\pm$ 0.000 χ^2/NDF :3268107.3/36

Out: 0.381 $\pm$ 0.000 χ^2/NDF :3454813.6/40

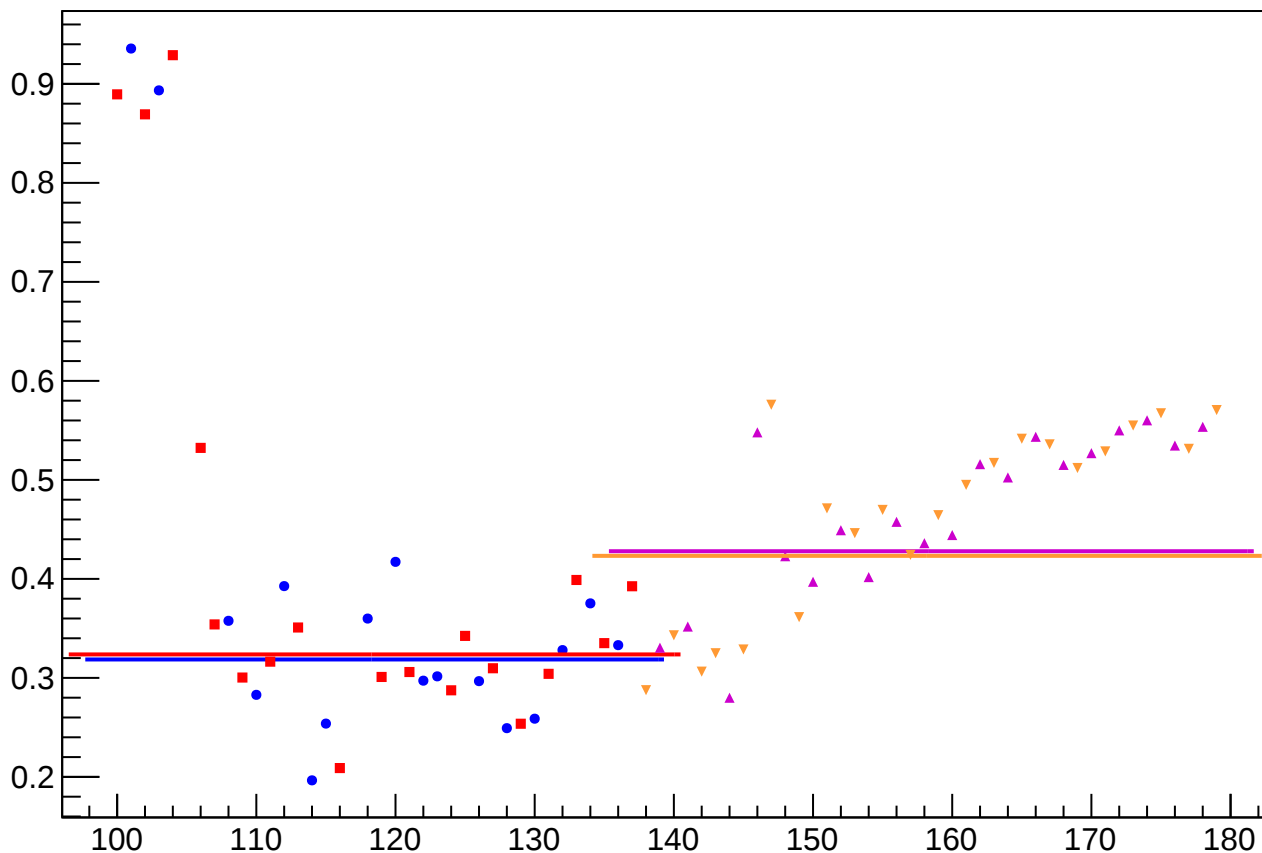
All: 0.380 $\pm$ 0.000 χ^2/NDF : 6723047.8/77

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000	χ^2 /NDF: 3584662767.5/16	Left: 148.488 $\pm$ 0.000	χ^2 /NDF: 391171011.6/41
Left Out: 148.684 $\pm$ 0.000	χ^2 /NDF: 52473150.3/21	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
Left In: 148.275 $\pm$ 0.000	χ^2 /NDF: 331872110.7/19	Out: 147.079 $\pm$ 0.000	χ^2 /NDF: 4815856814.0/40
		All: 146.786 $\pm$ 0.000	χ^2 /NDF: 9371098779.9

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2 /NDF: 1280748.9/16

Left Out: 0.423 $\pm$ 0.000 χ^2 /NDF:1619718.6/21

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: 0.426 $\pm$ 0.000 χ^2 /NDF: 2886399.5/41

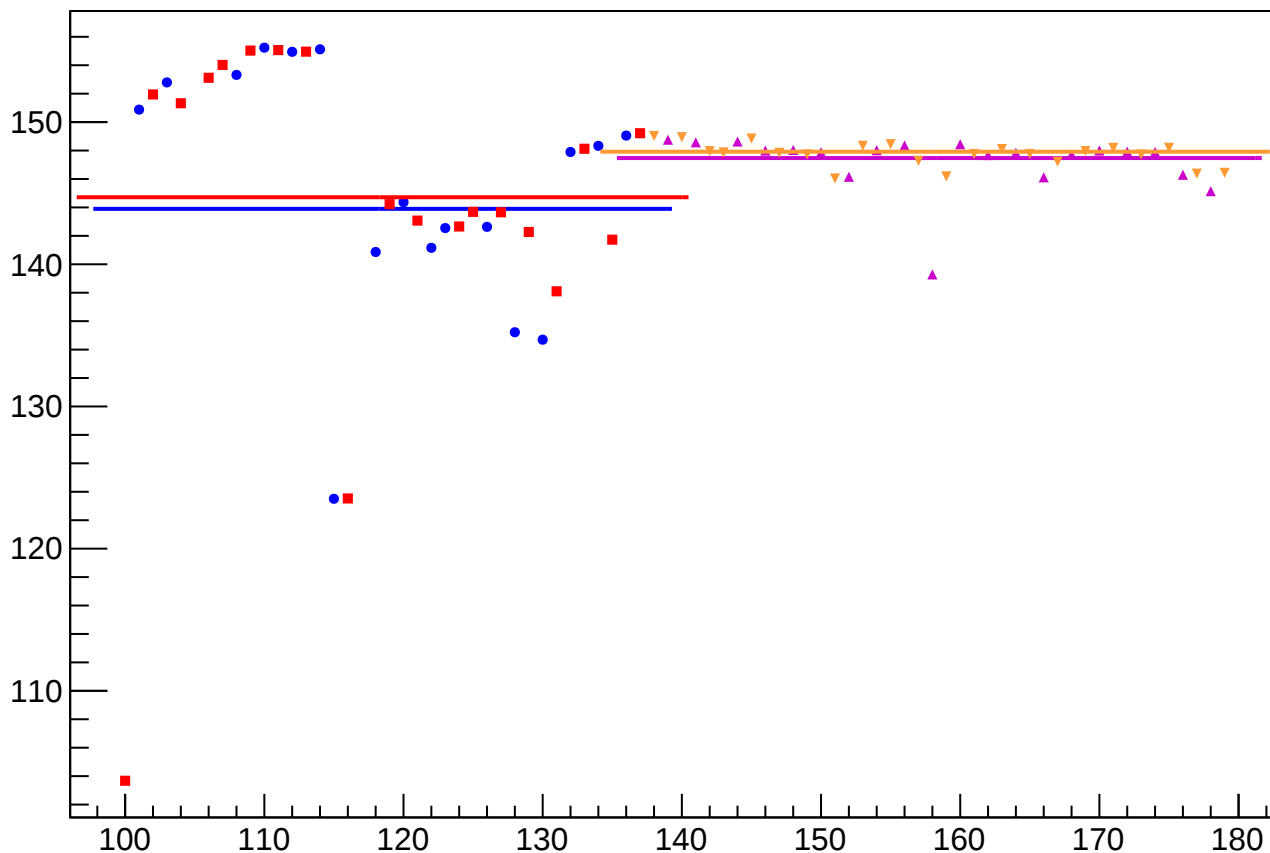
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2503090.8/35

In: 0.383 $\pm$ 0.000 χ^2 /NDF:3318319.1/36

Out: 0.384 $\pm$ 0.000 χ^2 /NDF:3509876.8/40

All: 0.383 $\pm$ 0.000 χ^2 /NDF: 6828330.8/77

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 $\pm$ 0.000 χ^2 /NDF: 3749888331.0/16

Left Out: 147.919 $\pm$ 0.000 χ^2 /NDF: 64017350.2/21

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: 147.704 $\pm$ 0.000 χ^2 /NDF: 414804127.1/41

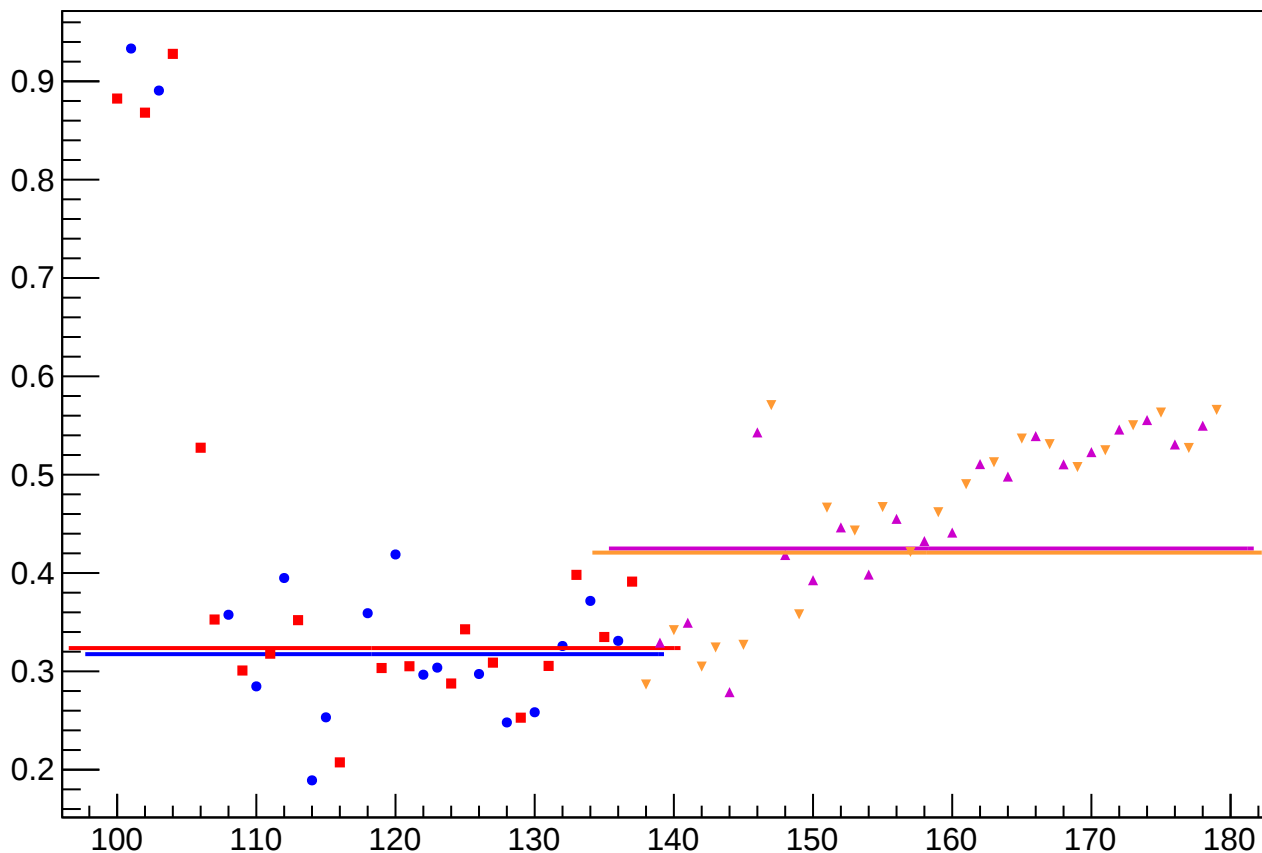
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8242891510.2/35

In: 146.004 $\pm$ 0.000 χ^2 /NDF: 4508551125.6/36

Out: 146.658 $\pm$ 0.000 χ^2 /NDF: 4886825908.4/40

All: 146.340 $\pm$ 0.000 χ^2 /NDF: 9424946556.9

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1293179.2/16

Left Out: 0.421 $\pm$ 0.000 χ^2 /NDF:1594216.2/21

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: 0.423 $\pm$ 0.000 χ^2 /NDF: 2846322.6/41

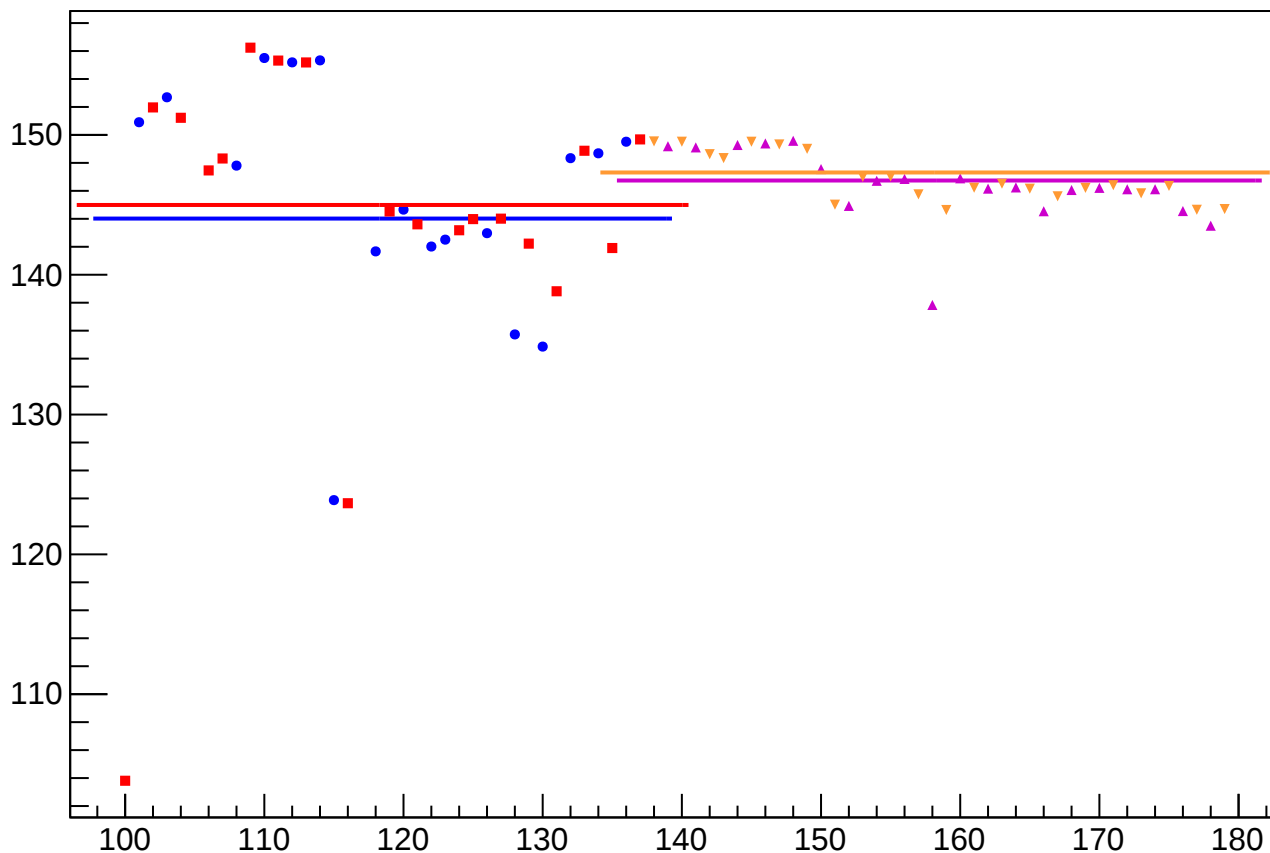
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2516974.9/35

In: 0.381 $\pm$ 0.000 χ^2 /NDF:3296495.0/36

Out: 0.383 $\pm$ 0.000 χ^2 /NDF:3455634.0/40

All: 0.382 $\pm$ 0.000 χ^2 /NDF: 6752542.5/77

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.314 $\pm$ 0.000 χ^2 /NDF: 251645993.3/21

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 146.740 $\pm$ 0.000 χ^2 /NDF: 551733417.1/19

Left: 147.038 $\pm$ 0.000 χ^2 /NDF: 816292643.4/41

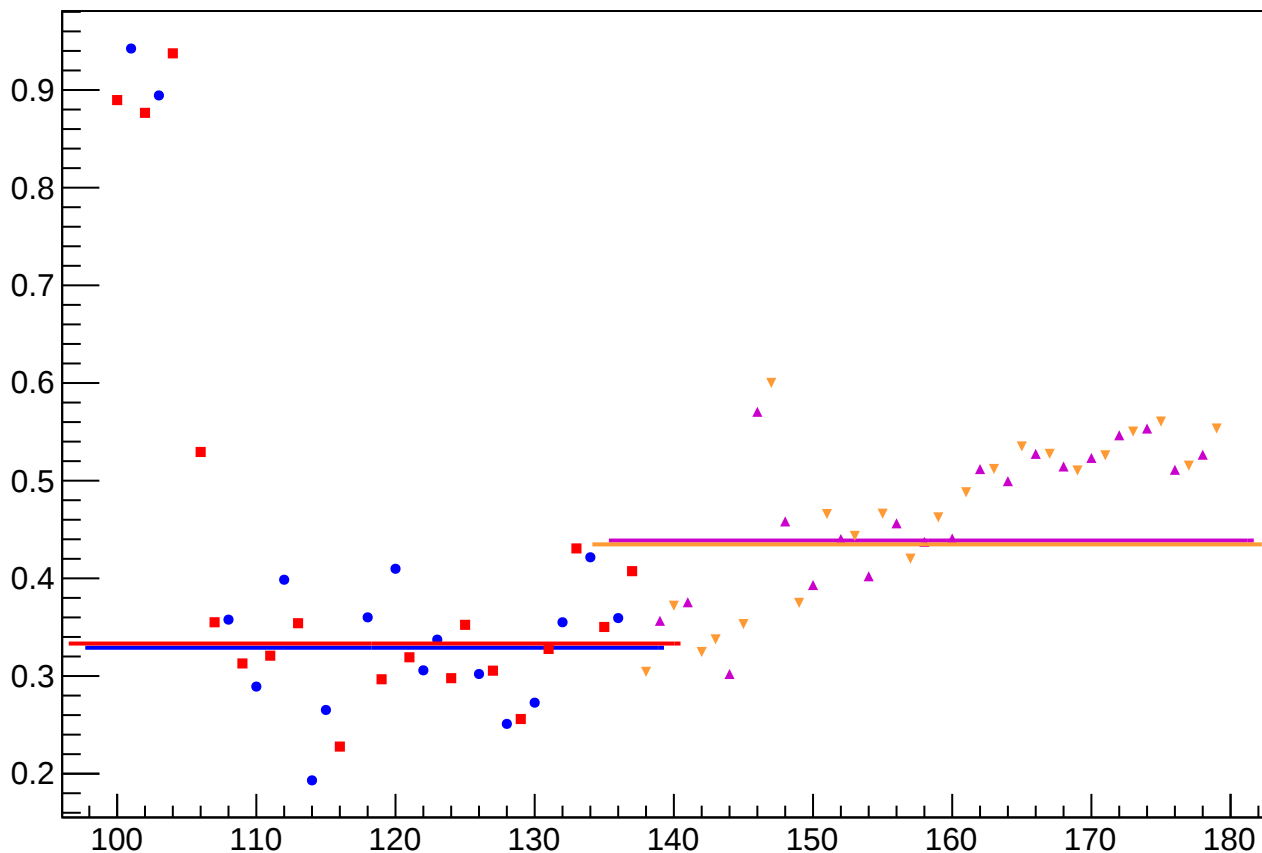
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.636 $\pm$ 0.000 χ^2 /NDF: 4016577179.4/36

Out: 146.401 $\pm$ 0.000 χ^2 /NDF: 4278003902.6/40

All: 146.029 $\pm$ 0.000 χ^2 /NDF: 8332794870.8

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329+/-0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.435+/-0.000 χ^2/NDF :1223891.0/21

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: 0.437+/-0.000 χ^2/NDF : 2142691.9/41

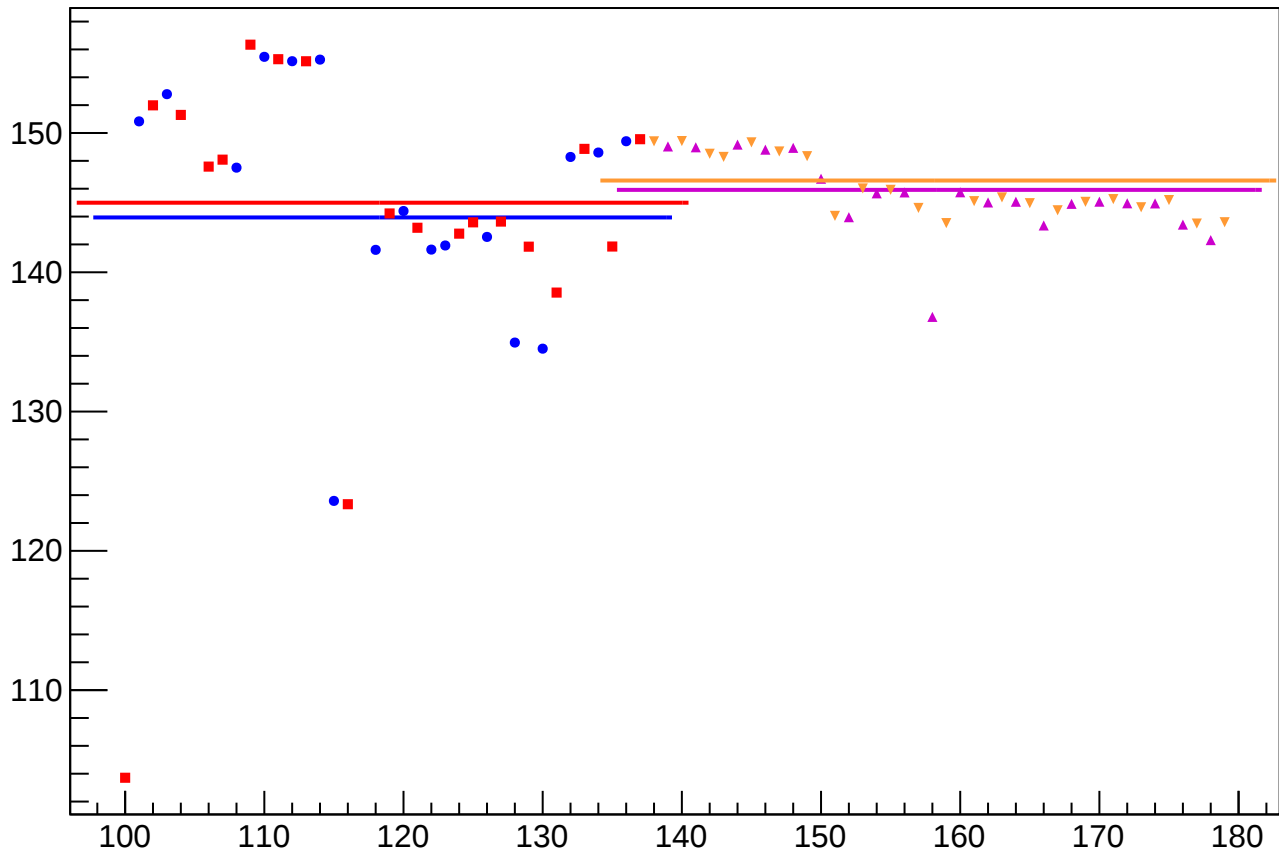
Right: 0.331+/-0.000 χ^2/NDF : 2459580.1/35

In: 0.394+/-0.000 χ^2/NDF :2929681.1/36

Out: 0.395+/-0.000 χ^2/NDF :3066452.9/40

All: 0.395+/-0.000 χ^2/NDF : 5996201.6/77

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 $\pm$ 0.000 χ^2 /NDF: 3379203532.9/16

Left Out: 146.588 $\pm$ 0.000 χ^2 /NDF: 382456140.7/21

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3934069043.2/18

Left In: 145.916 $\pm$ 0.000 χ^2 /NDF: 683349473.0/19

Left: 146.266 $\pm$ 0.000 χ^2 /NDF: 1083368612.0/41

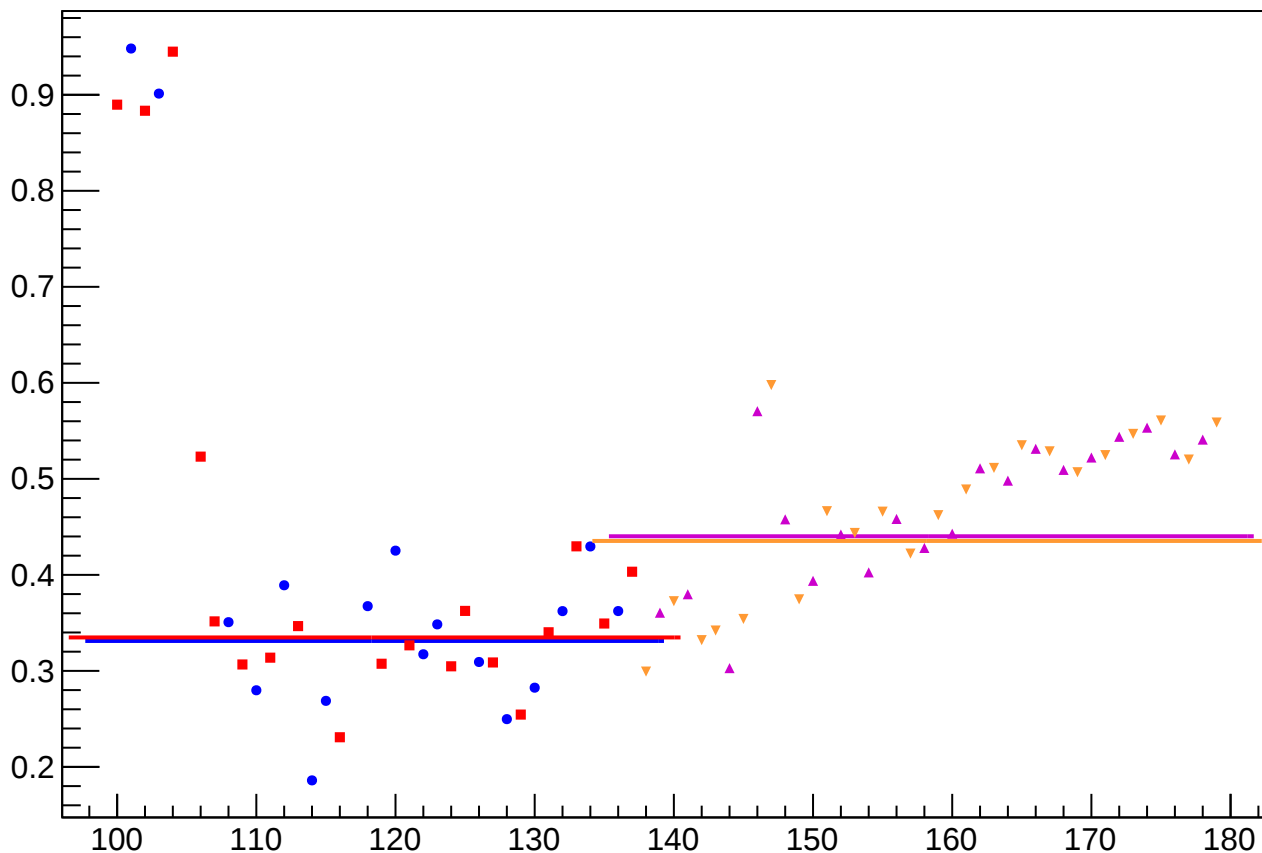
Right: 144.474 $\pm$ 0.000 χ^2 /NDF: 7341982360.6/35

In: 145.118 $\pm$ 0.000 χ^2 /NDF: 4180631830.0/36

Out: 145.965 $\pm$ 0.000 χ^2 /NDF: 4397123552.7/40

All: 145.555 $\pm$ 0.000 χ^2 /NDF: 8624116741.9

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.435+/-0.000 χ^2/NDF : 1220924.3/21

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: 0.438+/-0.000 χ^2/NDF : 2132876.1/41

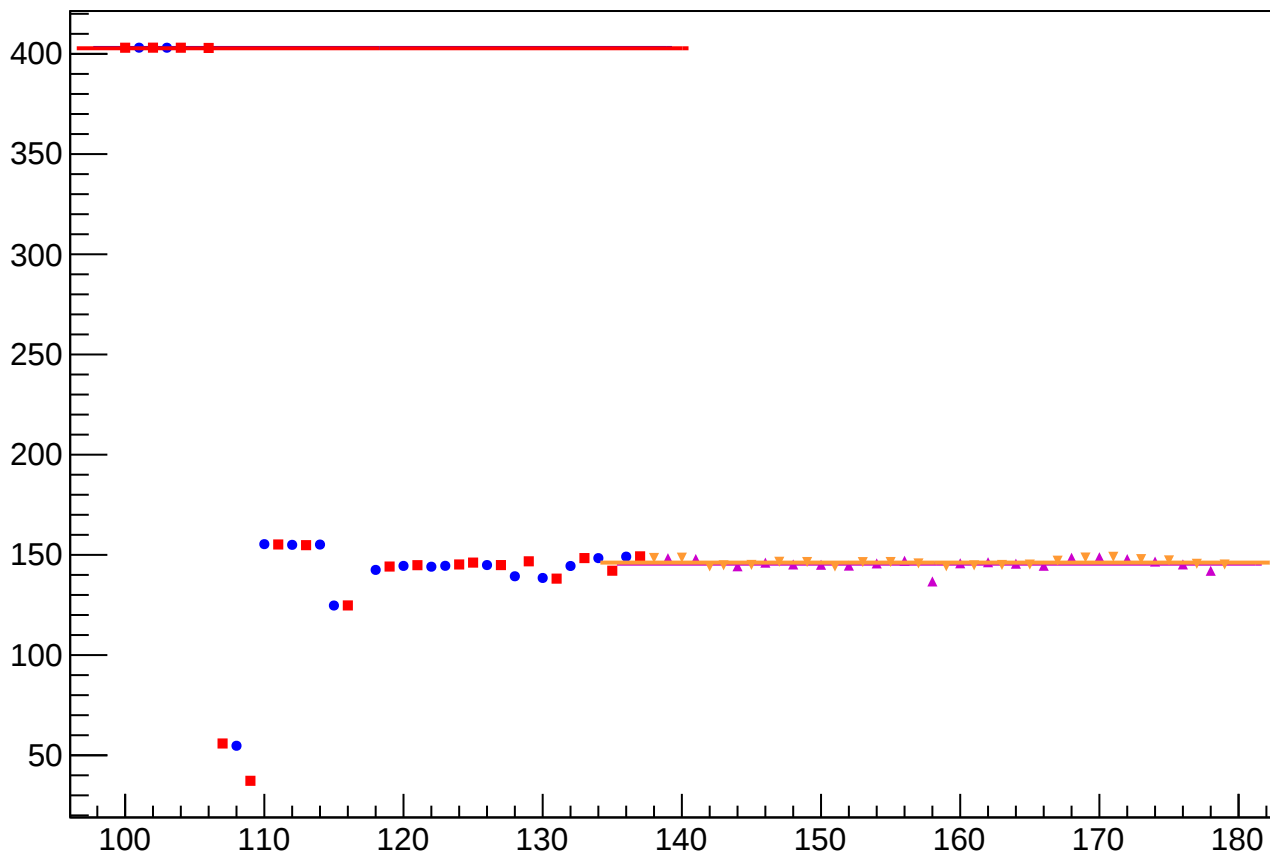
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.396+/-0.000 χ^2/NDF : 2922429.8/36

Out: 0.396+/-0.000 χ^2/NDF : 3034721.2/40

All: 0.396+/-0.000 χ^2/NDF : 5957155.4/77

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000

χ^2/NDF : 1096710296821.6/16

Left: 145.879+/-0.000

χ^2/NDF : 273335530.0/41

Left Out: 146.145+/-0.000

χ^2/NDF : 76766697.0/21

Right: 402.873+/-0.000

χ^2/NDF : 4201017642924.7/

Right Out: 402.799+/-0.000

χ^2/NDF : 3103890772575.4/18

In: 402.700+/-0.000

χ^2/NDF : 3162061467000.8/30

Out: 402.562+/-0.000

χ^2/NDF : 5243814641680.4/4

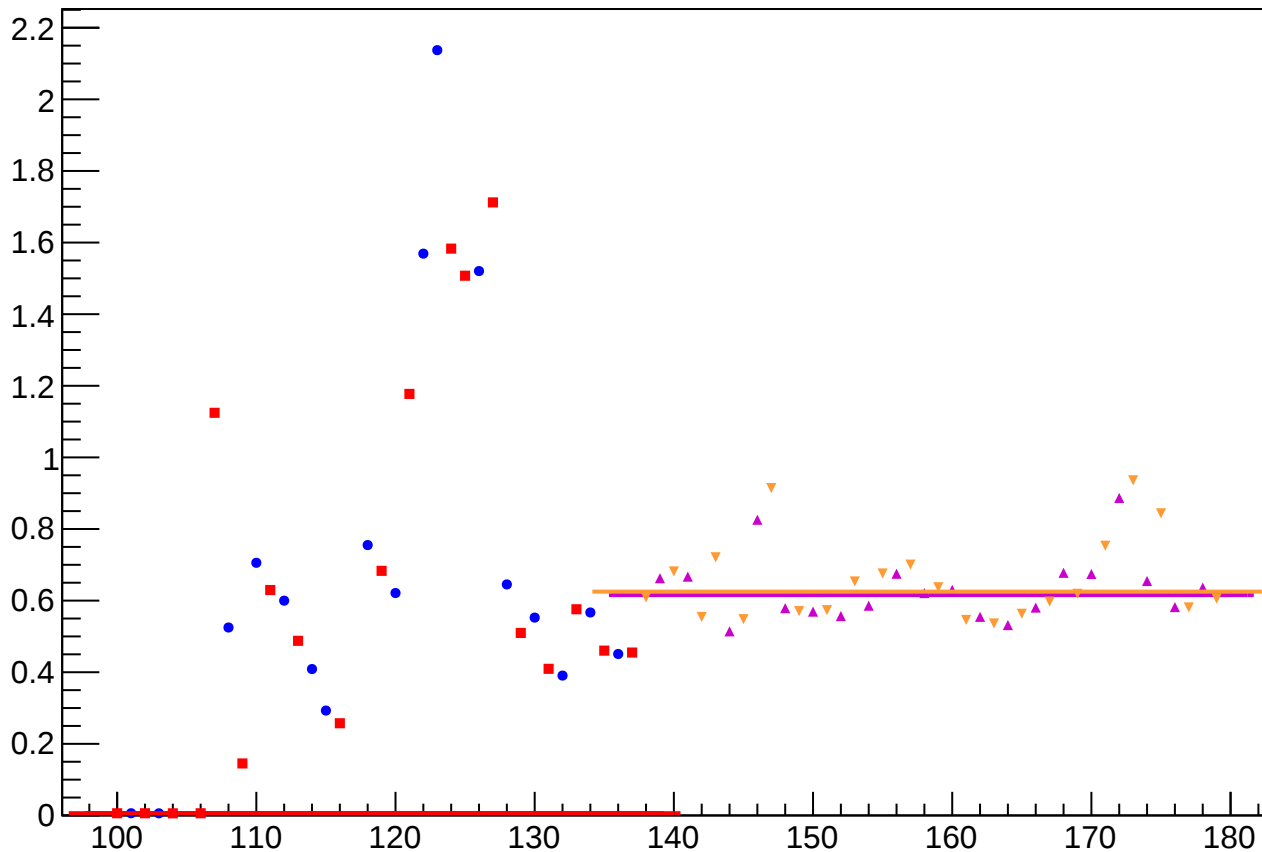
Left In: 145.602+/-0.000

χ^2/NDF : 191867869.4/19

All: 402.627+/-0.000

χ^2/NDF : 840618929232.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9161050.1/16

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:559716.8/21

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 9212402.0/18

Left In: 0.615 $\pm$ 0.000 χ^2 /NDF:352118.4/19

Left: 0.620 $\pm$ 0.000 χ^2 /NDF: 914836.6/41

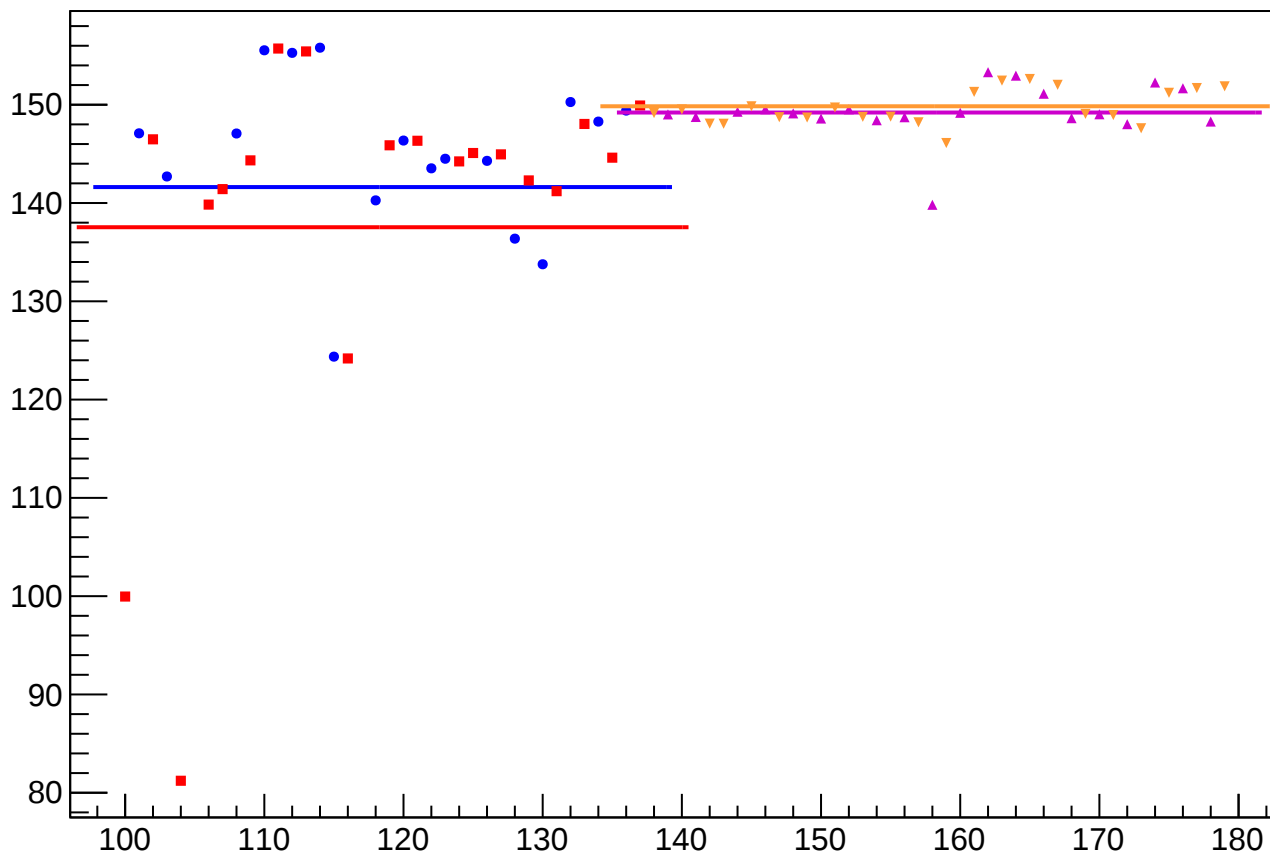
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 18373456.3/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:32648251.1/36

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:34650548.8/40

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 67298885.7/77

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622+/-0.000 χ^2/NDF : 982037737.7/16

Left Out: 149.843+/-0.000 χ^2/NDF : 152805134.3/21

Right Out: 137.536+/-0.000 χ^2/NDF : 1315768553.6/18

Left In: 149.207+/-0.000 χ^2/NDF : 403170939.7/19

Left: 149.540+/-0.000 χ^2/NDF : 565216062.2/41

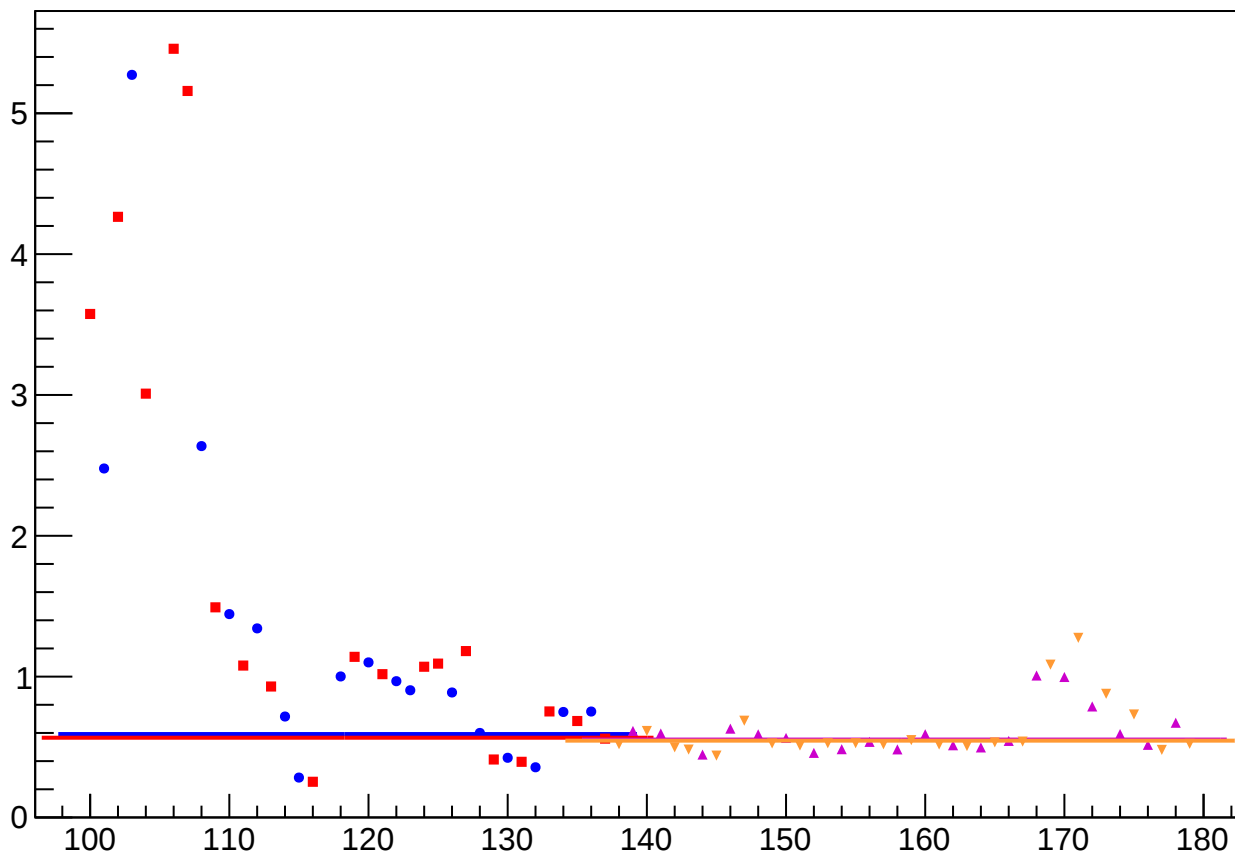
Right: 139.530+/-0.000 χ^2/NDF : 2384319562.8/35

In: 147.777+/-0.000 χ^2/NDF : 1857638638.9/36

Out: 147.607+/-0.000 χ^2/NDF : 2784979156.0/40

All: 147.689+/-0.000 χ^2/NDF : 4643423192.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.545 $\pm$ 0.000 χ^2 /NDF:1345929.1/21

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: 0.549 $\pm$ 0.000 χ^2 /NDF: 2363404.7/41

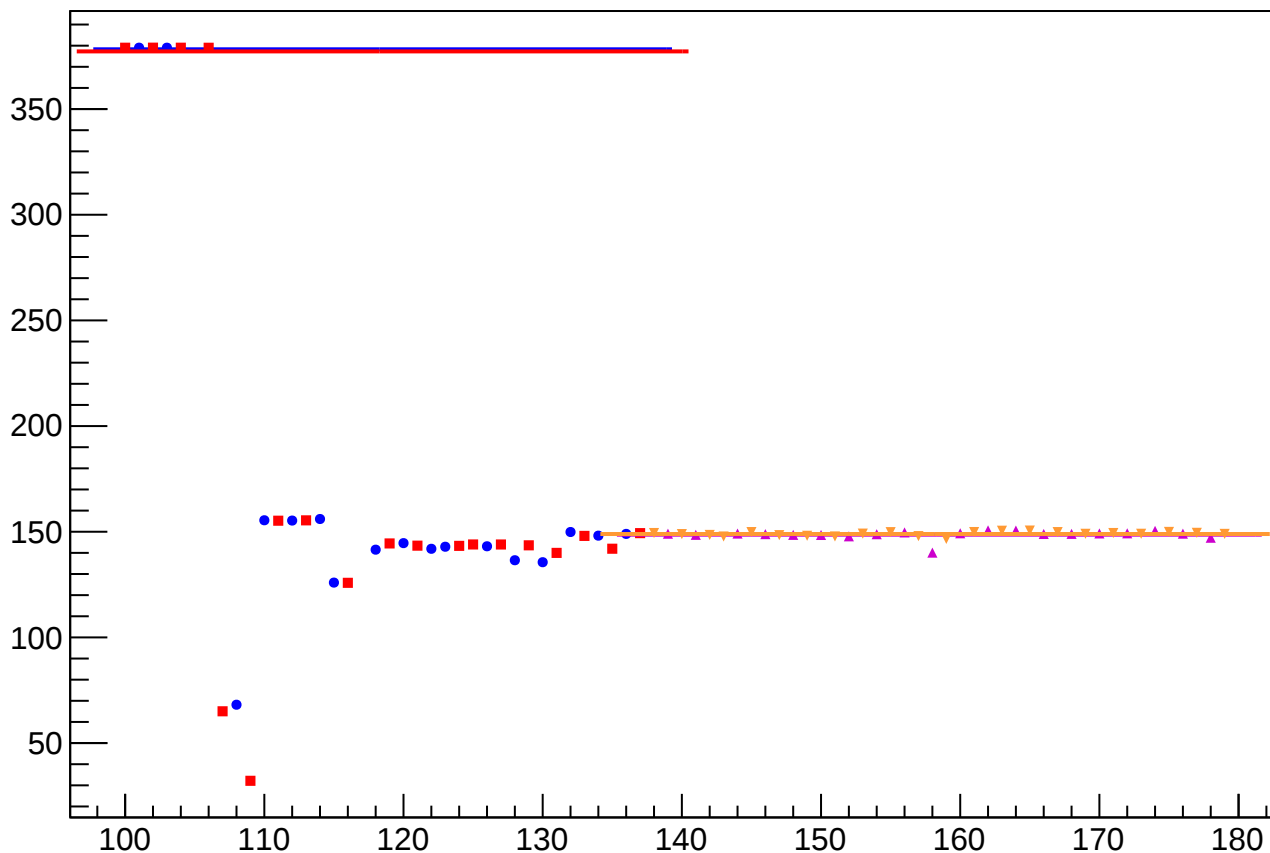
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.560 $\pm$ 0.000 χ^2 /NDF:4561623.6/36

Out: 0.549 $\pm$ 0.000 χ^2 /NDF:6035552.8/40

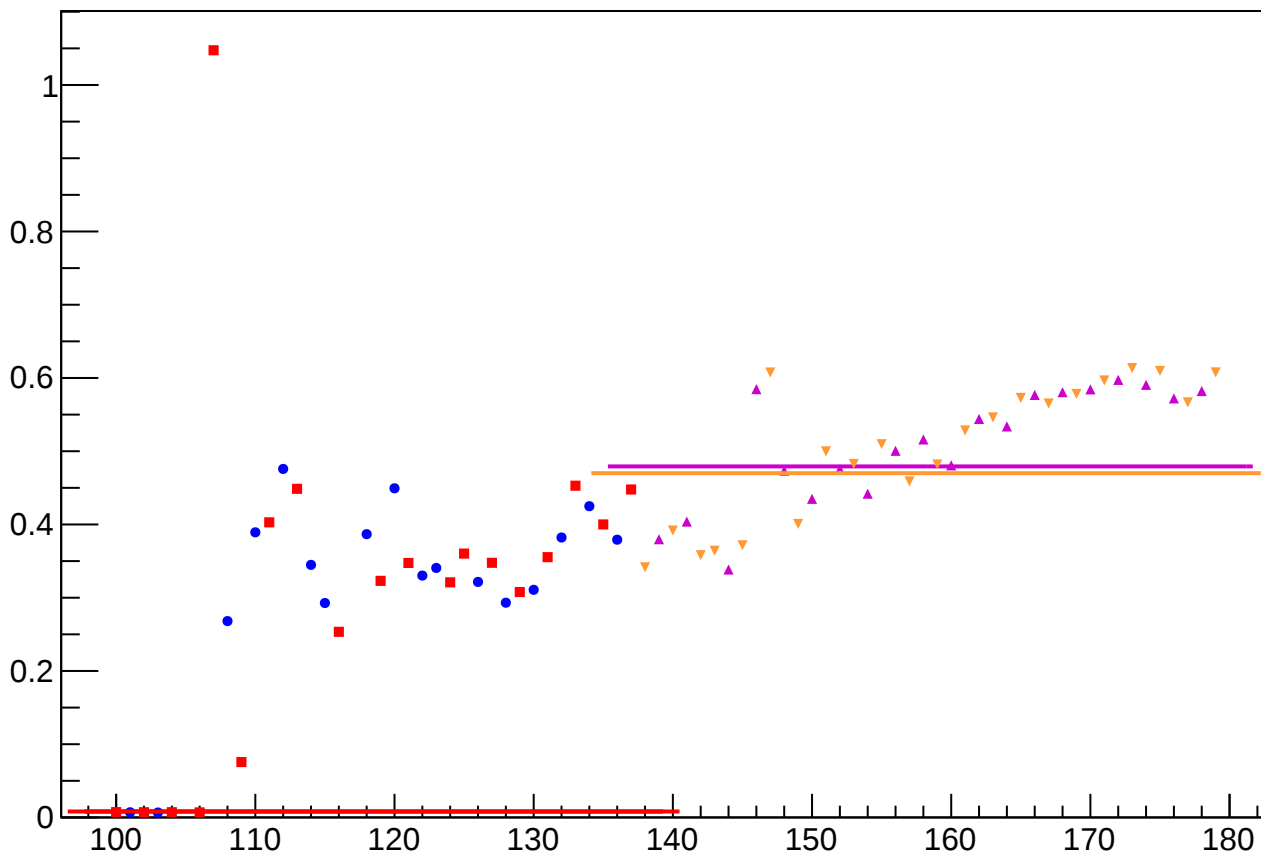
All: 0.555 $\pm$ 0.000 χ^2 /NDF: 10604272.0/77

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000	χ^2/NDF : 2512261599188.1/16	Left: 148.775+/-0.000	χ^2/NDF : 314451104.6/41
Left Out: 148.925+/-0.000	χ^2/NDF : 63774889.4/21	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: 376.239+/-0.000	χ^2/NDF : 11920146531287.8
		All: 376.684+/-0.000	χ^2/NDF : 177711420029.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.470 $\pm$ 0.000 χ^2 /NDF:1237994.7/21

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: 0.474 $\pm$ 0.000 χ^2 /NDF: 2129075.9/41

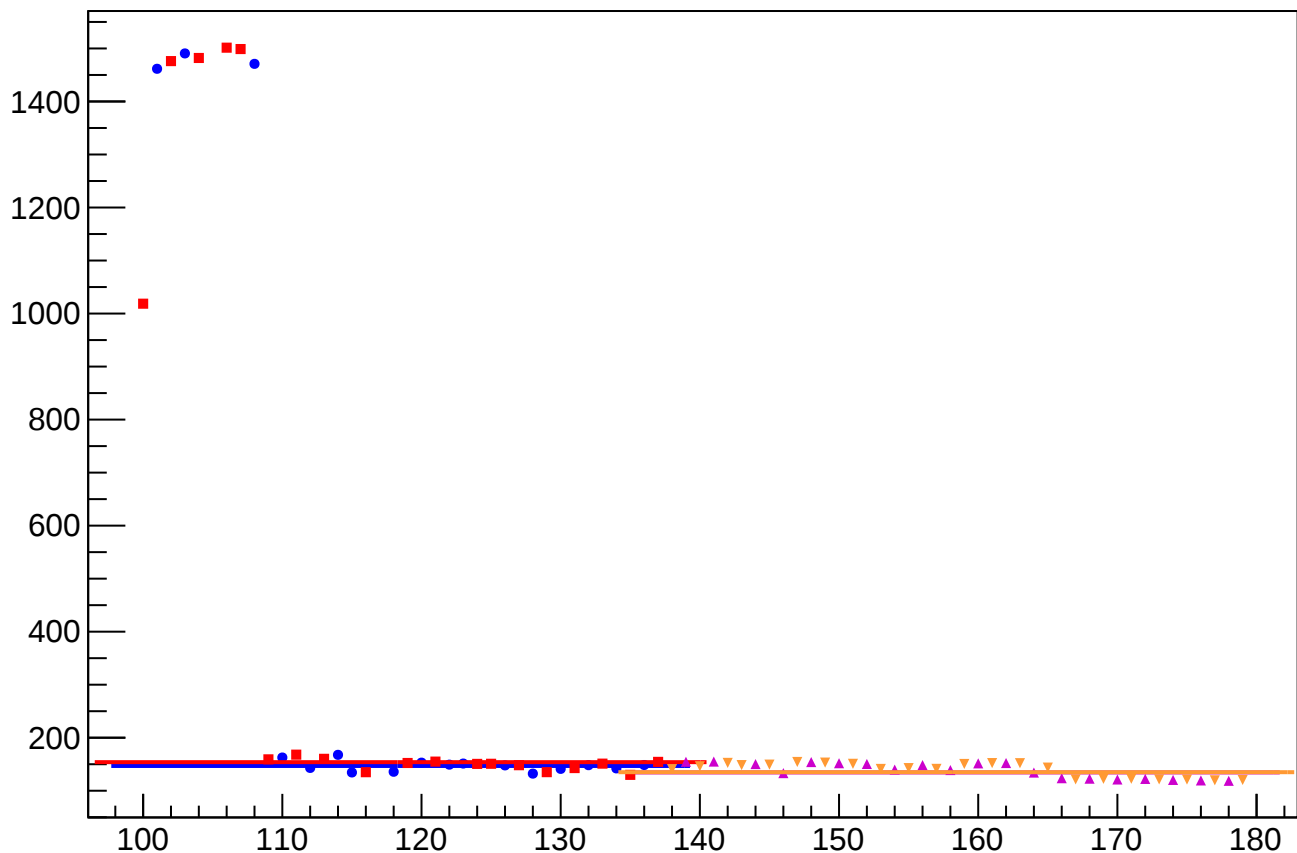
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:38813665.6/36

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:40559620.7/40

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 79373405.7/77

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000

χ^2/NDF : 24350870553.3/16

Left: 134.755+/-0.000

χ^2/NDF : 7942538249.8/41

Right: 150.283+/-0.000

χ^2/NDF : 58225591435.1/35

Left Out: 134.972+/-0.000

χ^2/NDF : 4007782681.8/21

In: 137.090+/-0.000

χ^2/NDF : 28913094629.8/36

Right Out: 153.887+/-0.000

χ^2/NDF : 33738118250.9/18

Out: 138.660+/-0.000

χ^2/NDF : 39269899655.9/40

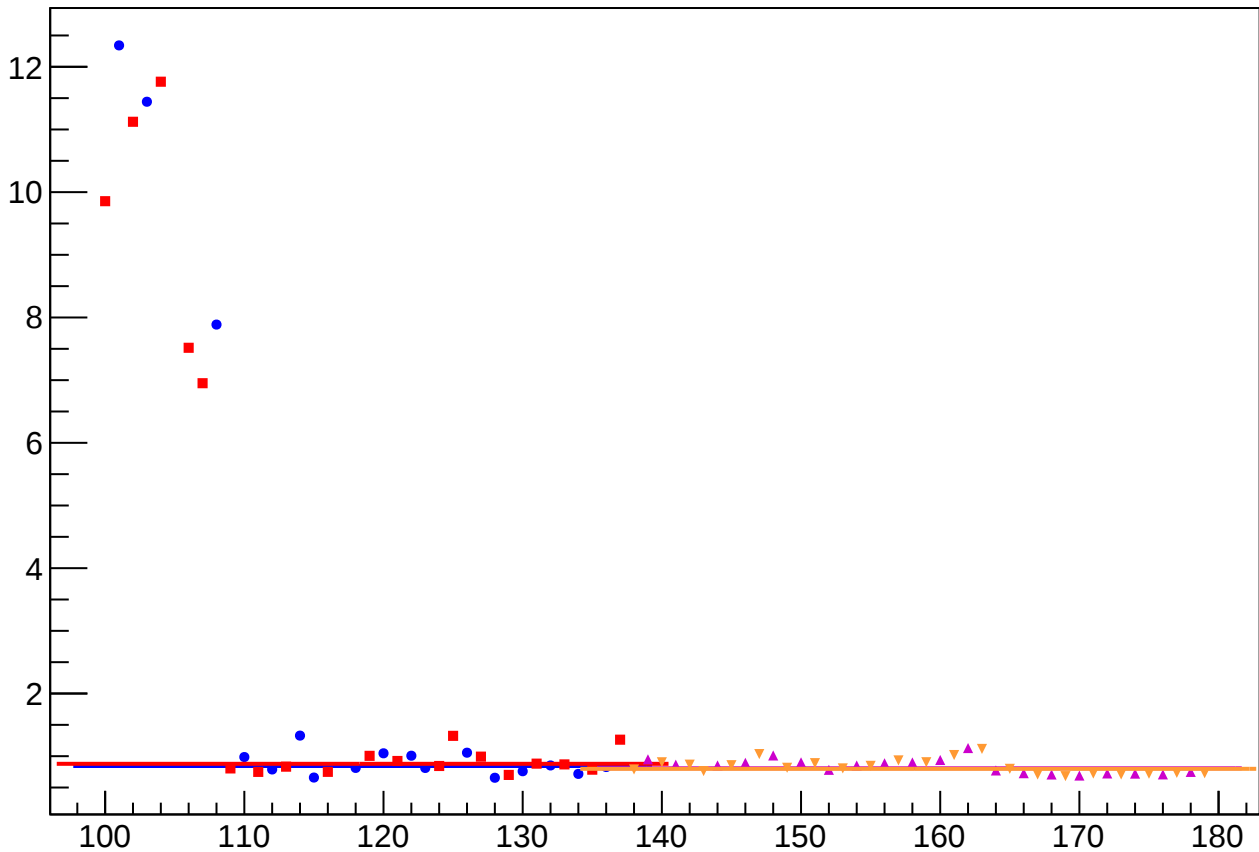
Left In: 134.518+/-0.000

χ^2/NDF : 3932592652.5/19

All: 137.901+/-0.000

χ^2/NDF : 68215342298.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844 $\pm$ 0.000 χ^2 /NDF: 2670470.7/16

Left Out: 0.798 $\pm$ 0.000 χ^2 /NDF:478120.9/21

Right Out: 0.878 $\pm$ 0.000 χ^2 /NDF: 2812500.6/18

Left In: 0.807 $\pm$ 0.000 χ^2 /NDF:443756.6/19

Left: 0.803 $\pm$ 0.000 χ^2 /NDF: 923447.7/41

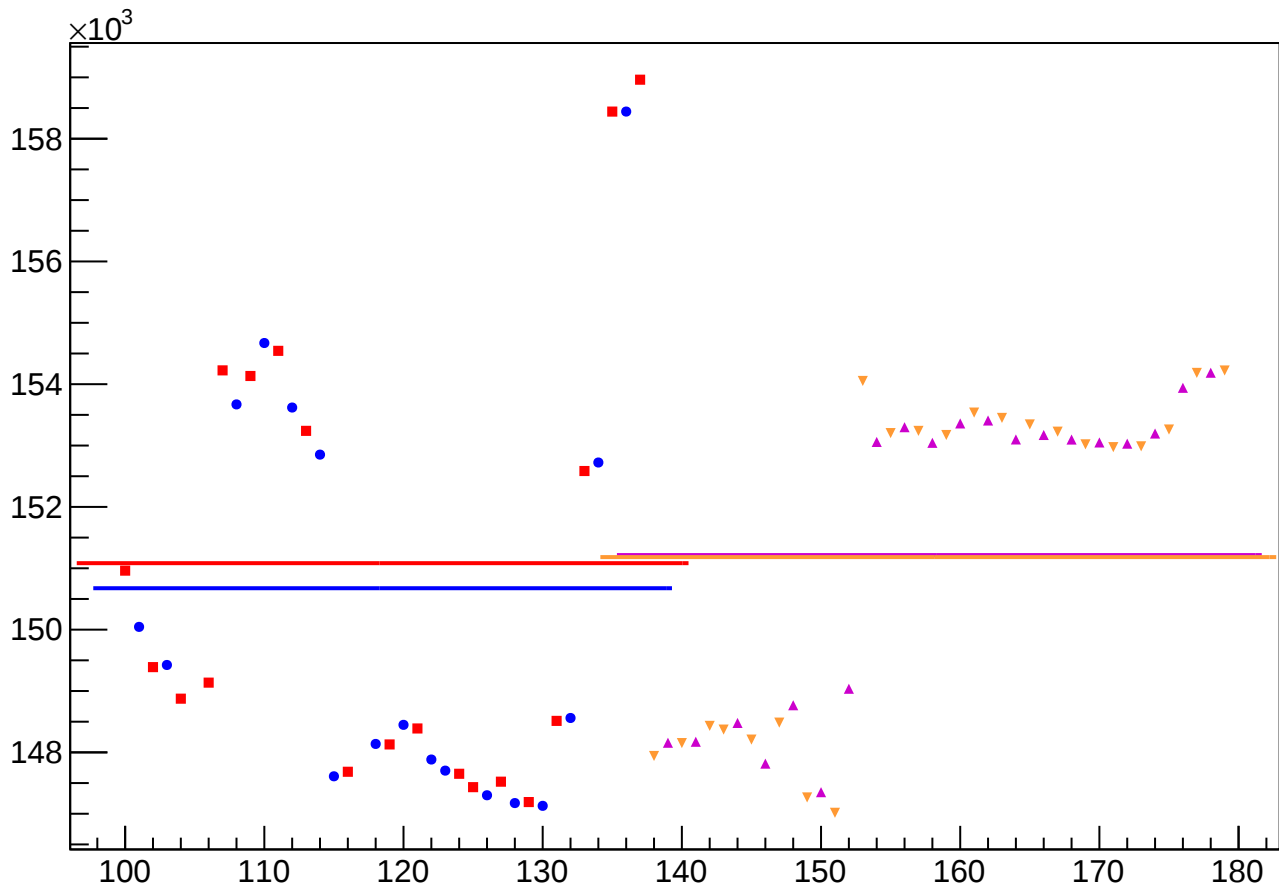
Right: 0.861 $\pm$ 0.000 χ^2 /NDF: 5489376.5/35

In: 0.815 $\pm$ 0.000 χ^2 /NDF:3125535.2/36

Out: 0.814 $\pm$ 0.000 χ^2 /NDF:3345049.1/40

All: 0.814 $\pm$ 0.000 χ^2 /NDF: 6470600.8/77

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063

χ^2/NDF : 3309974859.4/16

Left: 151197.857 $\pm$ 0.036

χ^2/NDF : 5131554695.5/4

Right: 150890.022 $\pm$ 0.043

χ^2/NDF : 6632946370.1/4

In: 150992.651 $\pm$ 0.040

χ^2/NDF : 5543796404.7/30

Out: 151141.292 $\pm$ 0.038

χ^2/NDF : 6243251566.7/4

Left Out: 151182.152 $\pm$ 0.050

χ^2/NDF : 2940810926.1/21

Right Out: 151083.268 $\pm$ 0.060

χ^2/NDF : 3300830370.5/18

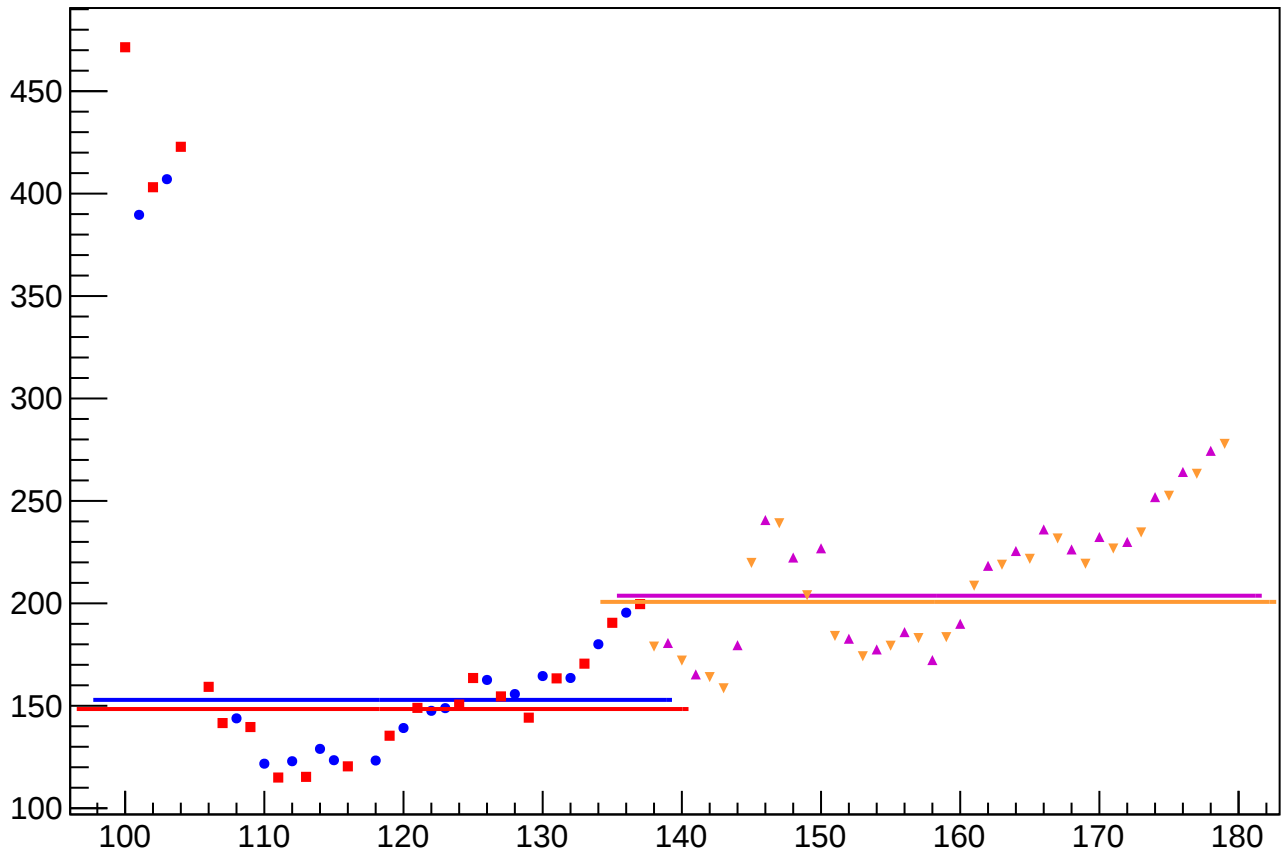
Left In: 151215.246 $\pm$ 0.053

χ^2/NDF : 2190536622.0/19

All: 151070.827 $\pm$ 0.028

χ^2/NDF : 117941619

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2 /NDF: 1154088.7/16

Left Out: 200.717 $\pm$ 0.035 χ^2 /NDF: 742510.3/21

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: 202.146 $\pm$ 0.026 χ^2 /NDF: 1420248.3/41

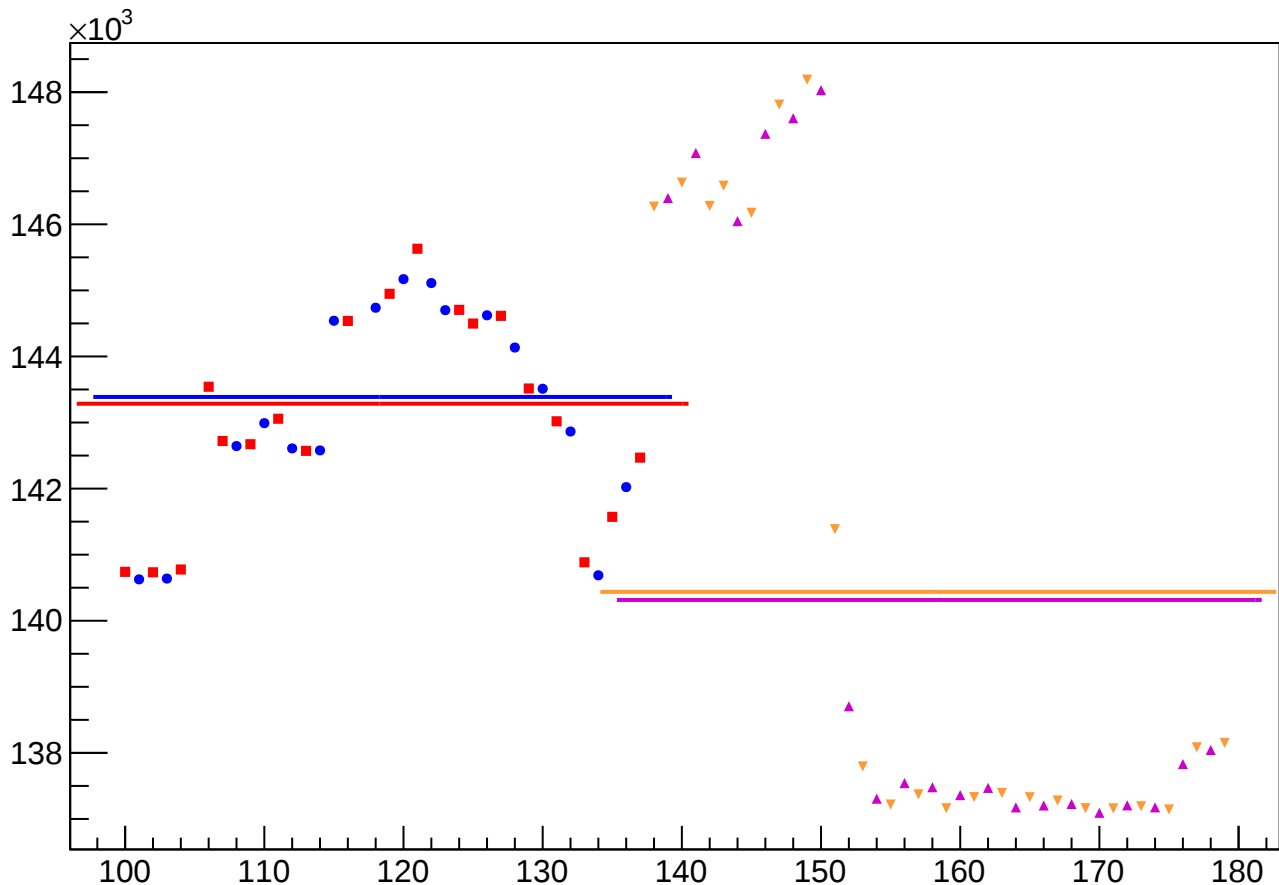
Right: 150.532 $\pm$ 0.031 χ^2 /NDF: 2350963.4/35

In: 182.778 $\pm$ 0.029 χ^2 /NDF: 2595289.4/36

Out: 179.106 $\pm$ 0.027 χ^2 /NDF: 2834957.1/40

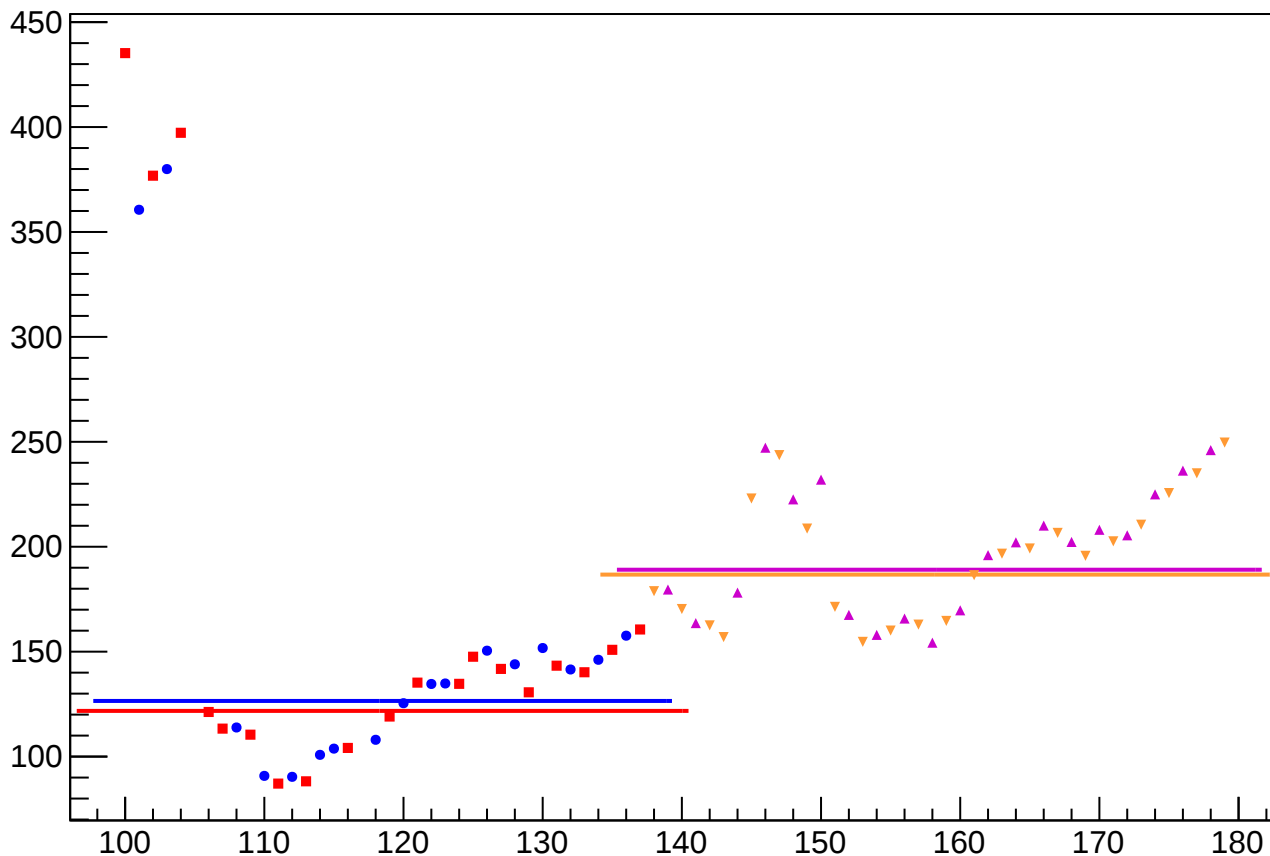
All: 180.847 $\pm$ 0.020 χ^2 /NDF: 5438929.3/77

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099+/-0.053	χ^2/NDF : 521299875.7/16	Left: 140378.949+/-0.034	χ^2/NDF : 16314510448.2
Left Out: 140437.076+/-0.047	χ^2/NDF : 8434540101.4/21	Right: 143332.291+/-0.036	χ^2/NDF : 1131952524.8
Right Out: 143284.757+/-0.049	χ^2/NDF : 608634820.1/18	In: 141737.024+/-0.036	χ^2/NDF : 10221707129.6/3
Left In: 140314.772+/-0.049	χ^2/NDF : 7876694393.5/19	Out: 141786.080+/-0.034	χ^2/NDF : 10813381428.7
		All: 141763.014+/-0.025	χ^2/NDF : 210360793

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514+/-0.037 χ^2/NDF : 1441685.0/16

Left Out: 186.726+/-0.033 χ^2/NDF : 679178.7/21

Right Out: 121.772+/-0.035 χ^2/NDF : 1463829.4/18

Left In: 189.053+/-0.035 χ^2/NDF : 682749.0/19

Left: 187.832+/-0.024 χ^2/NDF : 1364298.1/41

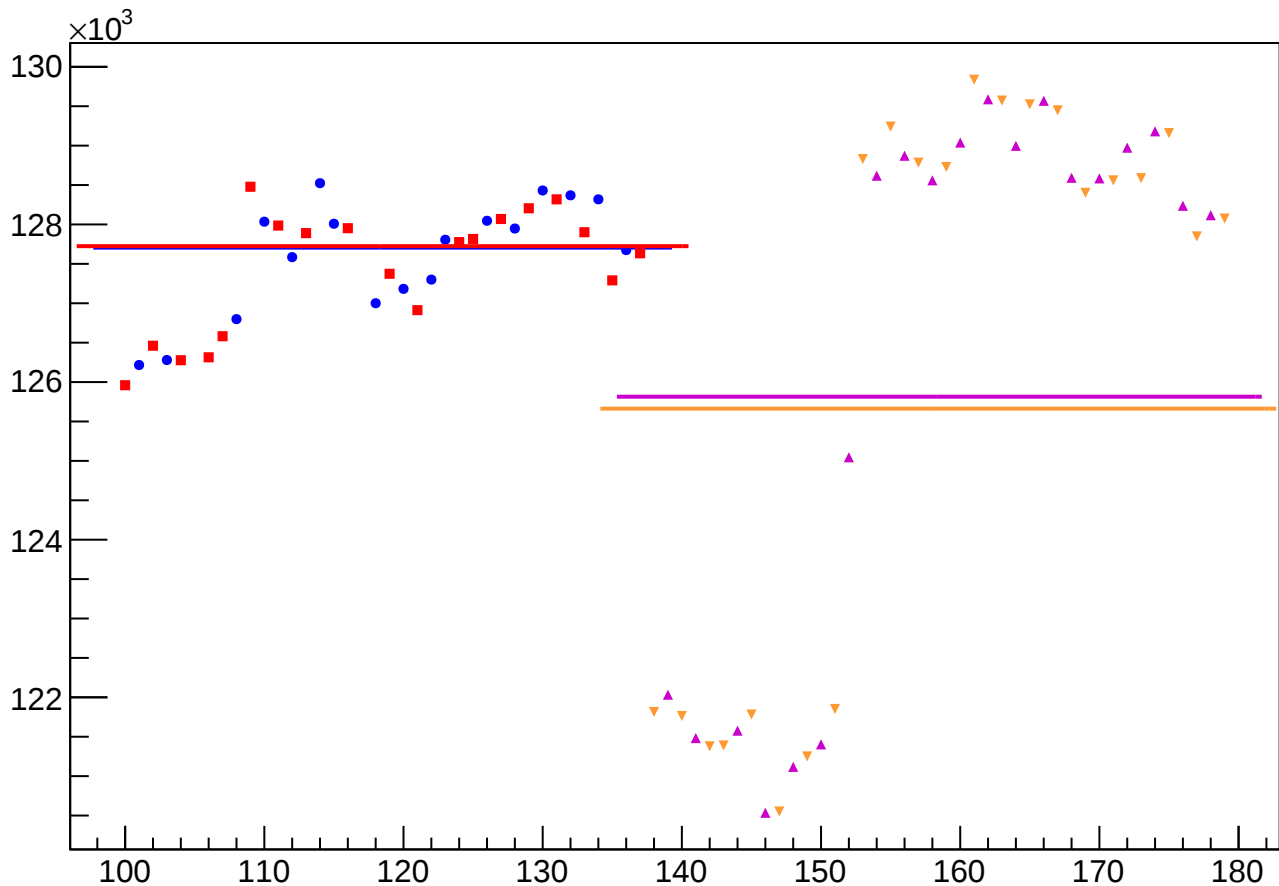
Right: 123.975+/-0.025 χ^2/NDF : 2914178.1/35

In: 160.102+/-0.025 χ^2/NDF : 3635726.2/36

Out: 155.956+/-0.024 χ^2/NDF : 3984989.4/40

All: 157.906+/-0.017 χ^2/NDF : 7634868.4/77

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058

χ^2 /NDF: 97860521.1/16

Left Out: 125663.058 $\pm$ 0.046

χ^2 /NDF: 6455392570.4/21

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: 125737.505 $\pm$ 0.033

χ^2 /NDF: 12129307815.0

Right: 127715.791 $\pm$ 0.040

χ^2 /NDF: 210526259.6/3

In: 126552.541 $\pm$ 0.036

χ^2 /NDF: 6413848248.3/30

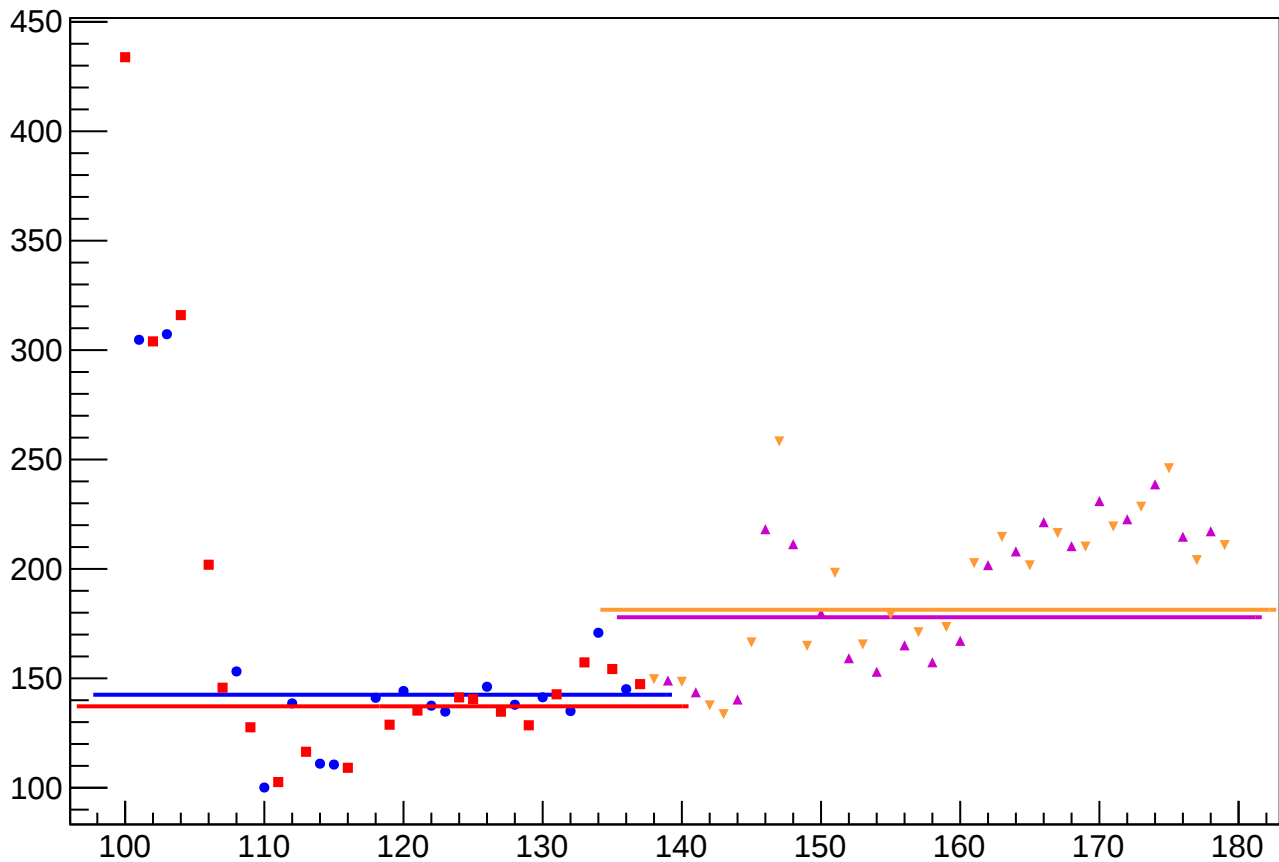
Out: 126513.736 $\pm$ 0.035

χ^2 /NDF: 7407213769.2/4

All: 126532.465 $\pm$ 0.025

χ^2 /NDF: 138216543

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 181.345 $\pm$ 0.032 χ^2 /NDF:992393.0/21

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: 179.661 $\pm$ 0.023 χ^2 /NDF: 1919873.2/41

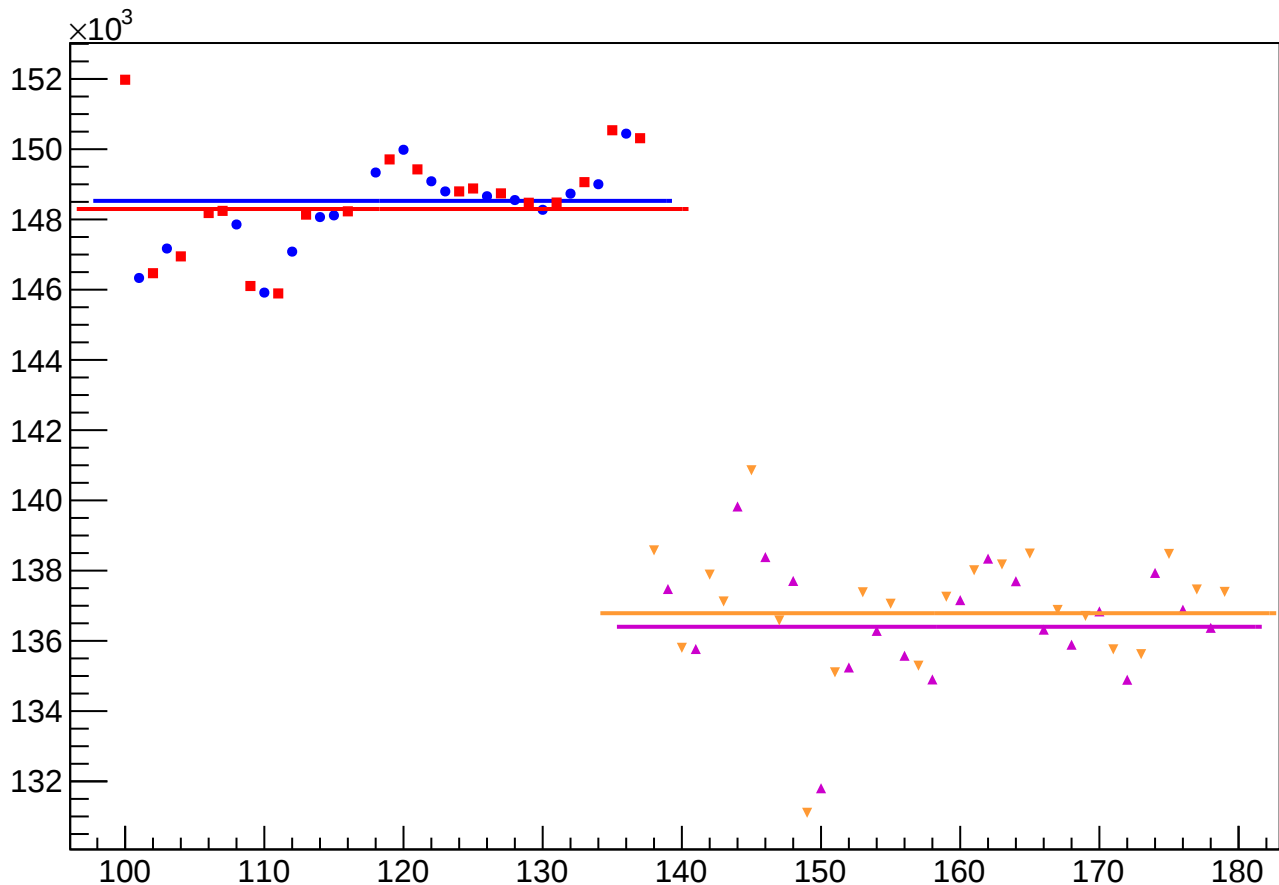
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 164.101 $\pm$ 0.026 χ^2 /NDF:2212137.0/36

Out: 163.131 $\pm$ 0.025 χ^2 /NDF:2719205.4/40

All: 163.599 $\pm$ 0.018 χ^2 /NDF: 4932082.5/77

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136787.521 $\pm$ 0.068 χ^2 /NDF: 871536386.7/21

Right Out: 148297.126 $\pm$ 0.076 χ^2 /NDF: 293244556.5/18

Left In: 136401.141 $\pm$ 0.069 χ^2 /NDF: 673303179.3/19

Left: 136596.978 $\pm$ 0.048 χ^2 /NDF: 1560957728.5/4

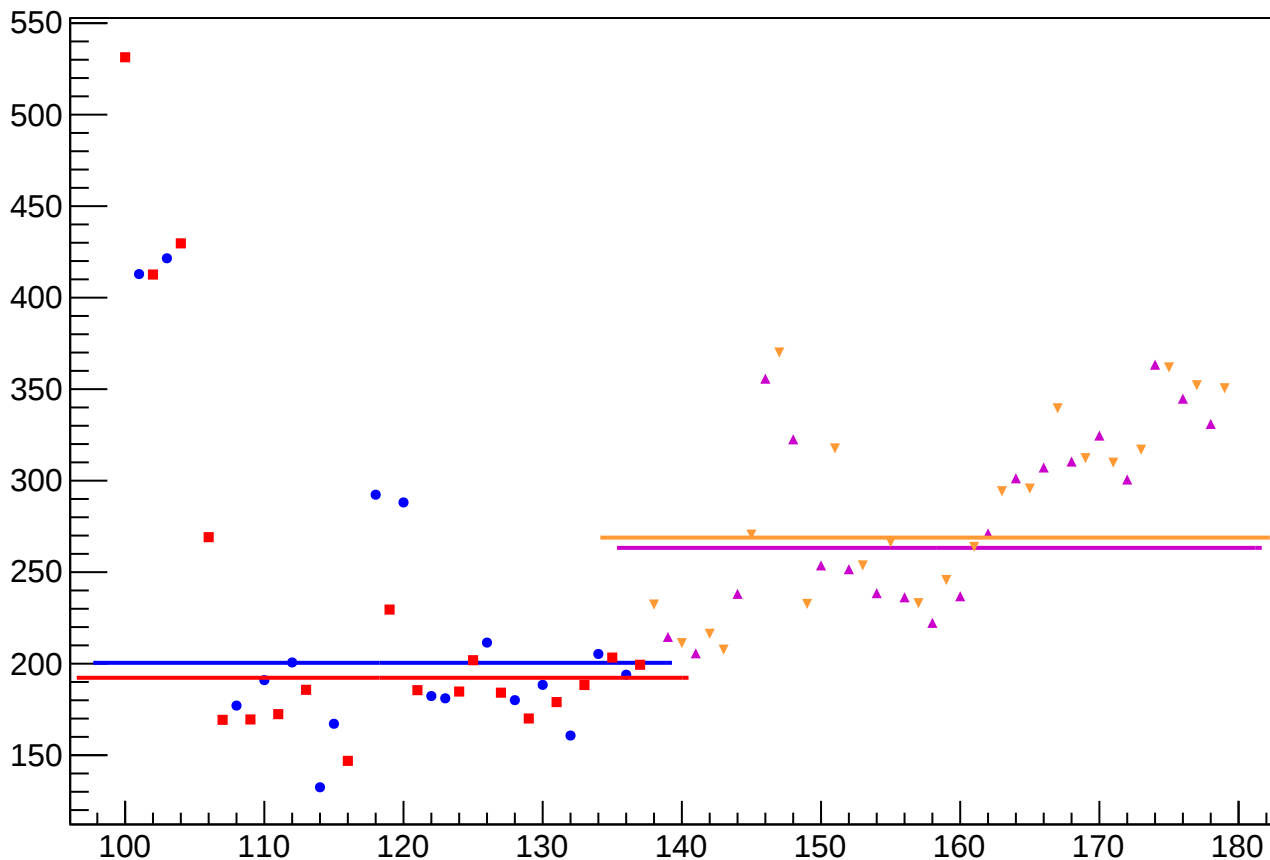
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141382.183 $\pm$ 0.053 χ^2 /NDF: 13751131111.7/3

Out: 141839.458 $\pm$ 0.051 χ^2 /NDF: 13894680996.7/3

All: 141619.558 $\pm$ 0.036 χ^2 /NDF: 276850490

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472+/-0.058 χ^2/NDF : 936547.2/16

Left Out: 268.891+/-0.048 χ^2/NDF : 1019811.8/21

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: 266.127+/-0.034 χ^2/NDF : 1938666.5/41

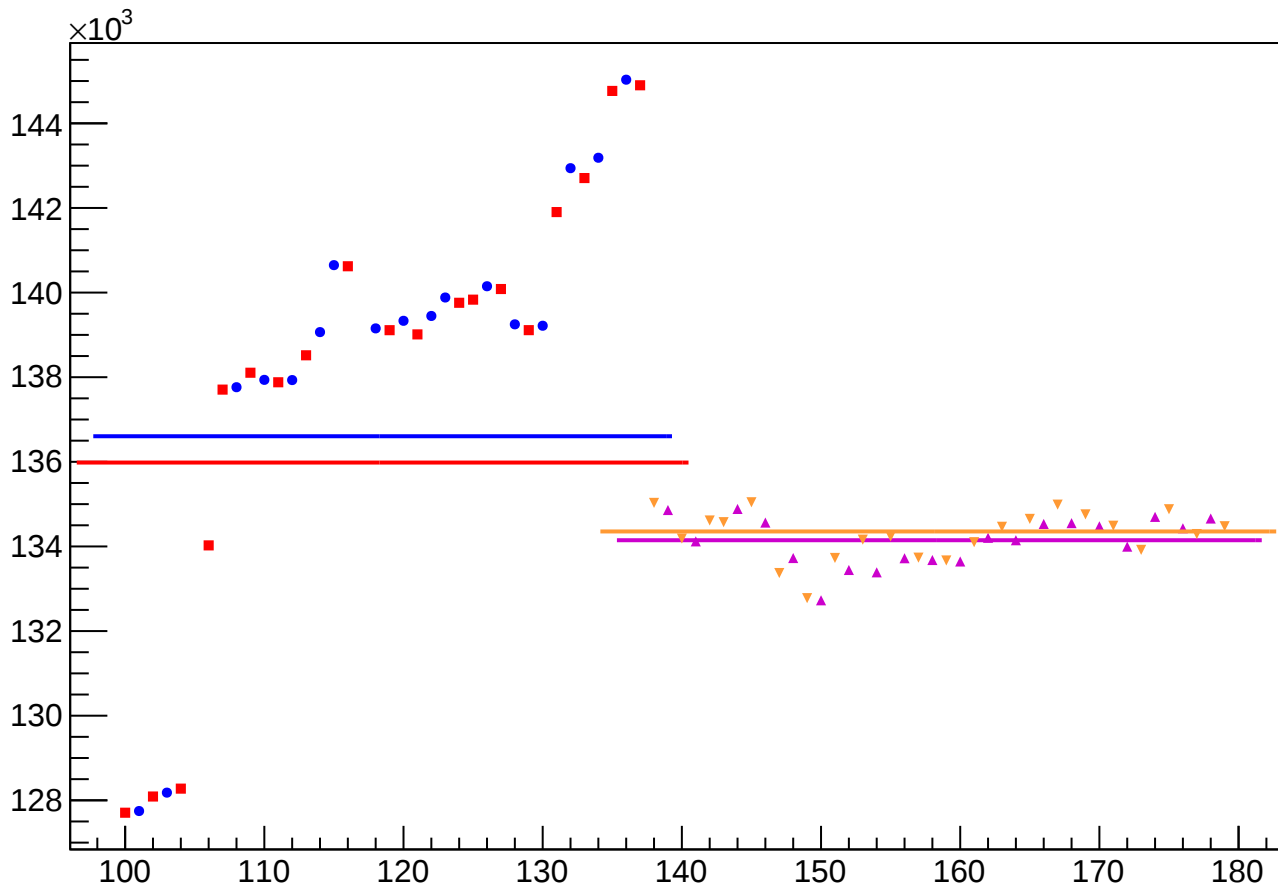
Right: 196.097+/-0.040 χ^2/NDF : 1791663.0/35

In: 237.487+/-0.037 χ^2/NDF : 2538974.7/36

Out: 235.275+/-0.036 χ^2/NDF : 2991629.2/40

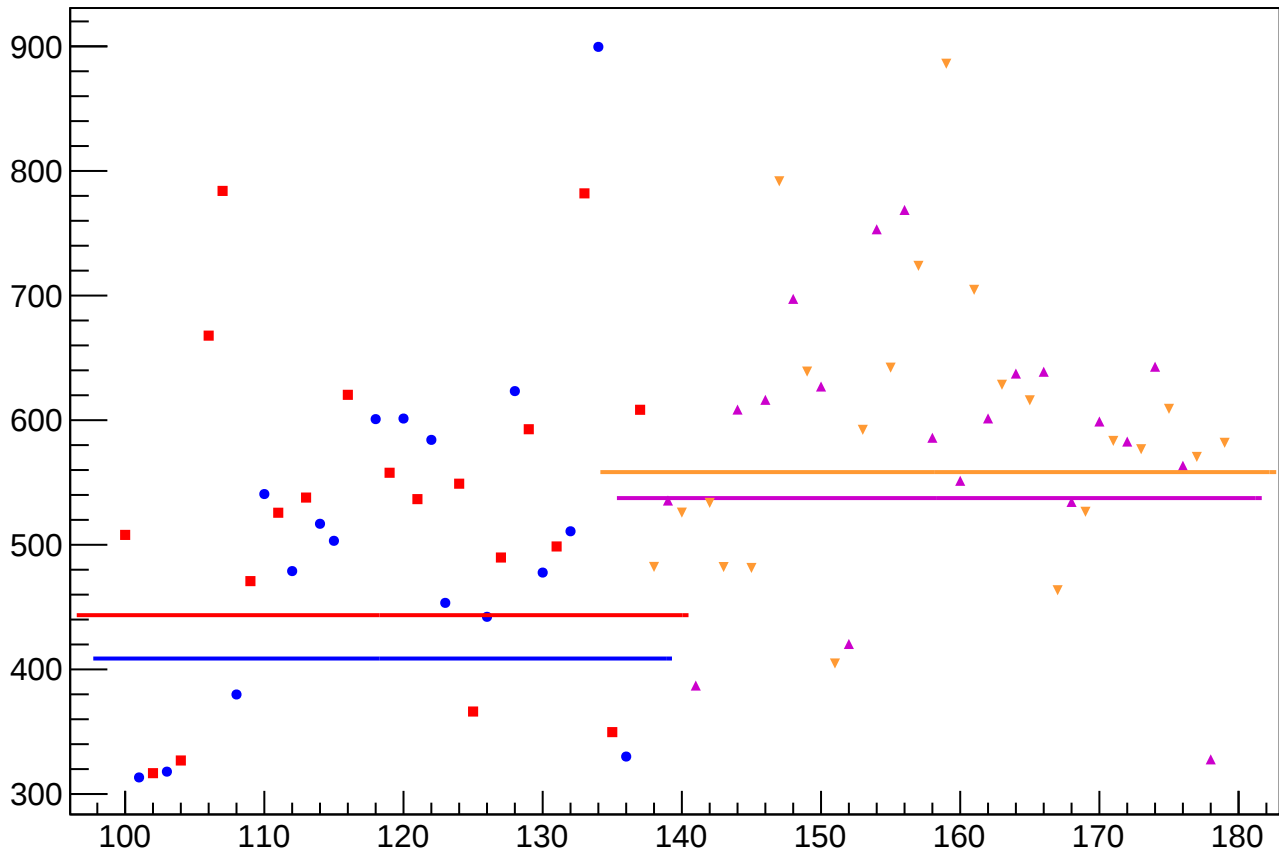
All: 236.338+/-0.026 χ^2/NDF : 5532440.4/77

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2/NDF : 1494354557.3/16	Left: 134253.579 $\pm$ 0.105	χ^2/NDF : 28776443.2/41
Left Out: 134354.407 $\pm$ 0.146	χ^2/NDF : 14347220.2/21	Right: 136313.462 $\pm$ 0.125	χ^2/NDF : 2582945594.6/4
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: 134990.273 $\pm$ 0.114	χ^2/NDF : 1145210342.8/4
		All: 135103.850 $\pm$ 0.080	χ^2/NDF : 277115795.2/10

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729 $\pm$ 0.121 χ^2 /NDF: 823262.8/16

Left Out: 558.335 $\pm$ 0.103 χ^2 /NDF: 904833.6/21

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: 548.196 $\pm$ 0.074 χ^2 /NDF: 2234131.1/41

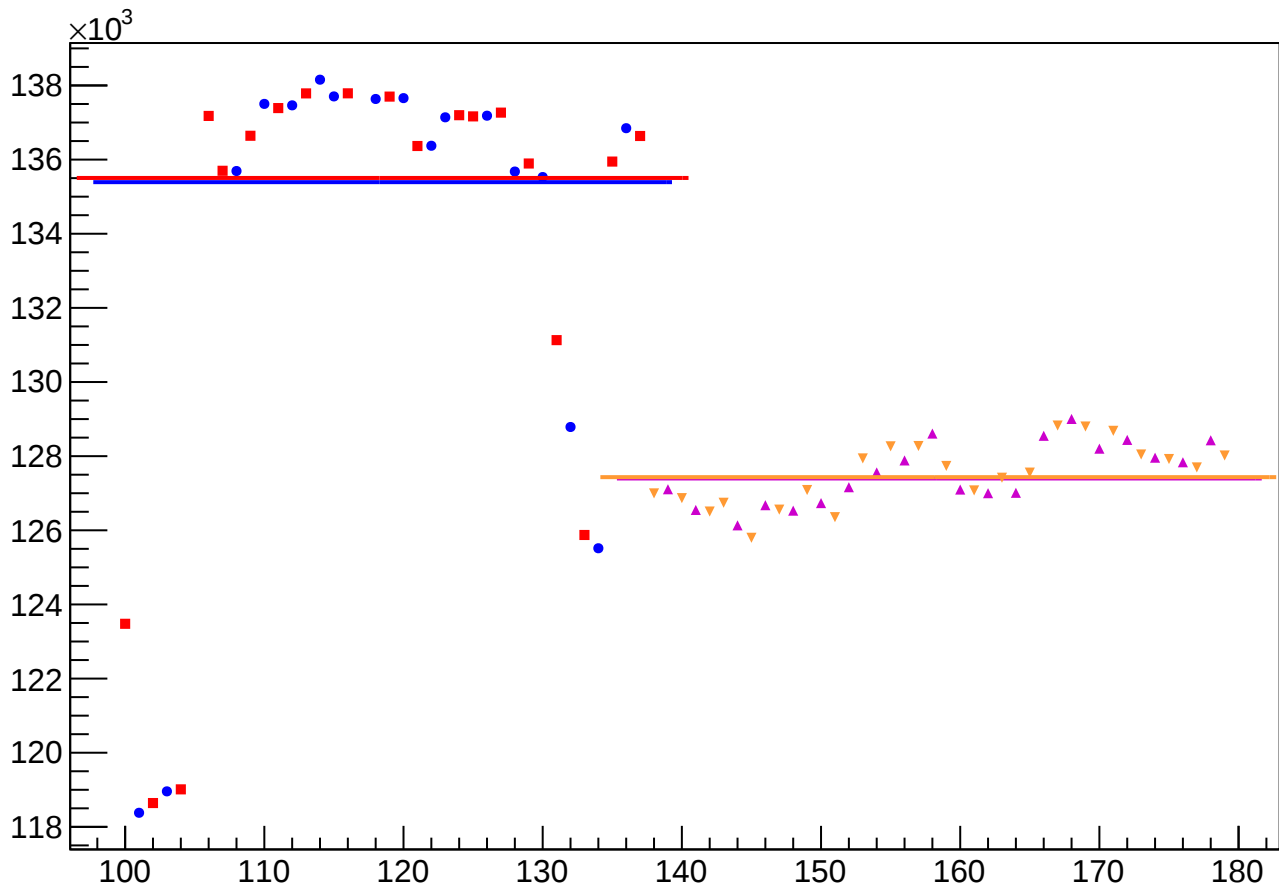
Right: 425.022 $\pm$ 0.088 χ^2 /NDF: 1779326.9/35

In: 481.520 $\pm$ 0.080 χ^2 /NDF: 2770514.4/36

Out: 513.503 $\pm$ 0.081 χ^2 /NDF: 2303841.2/40

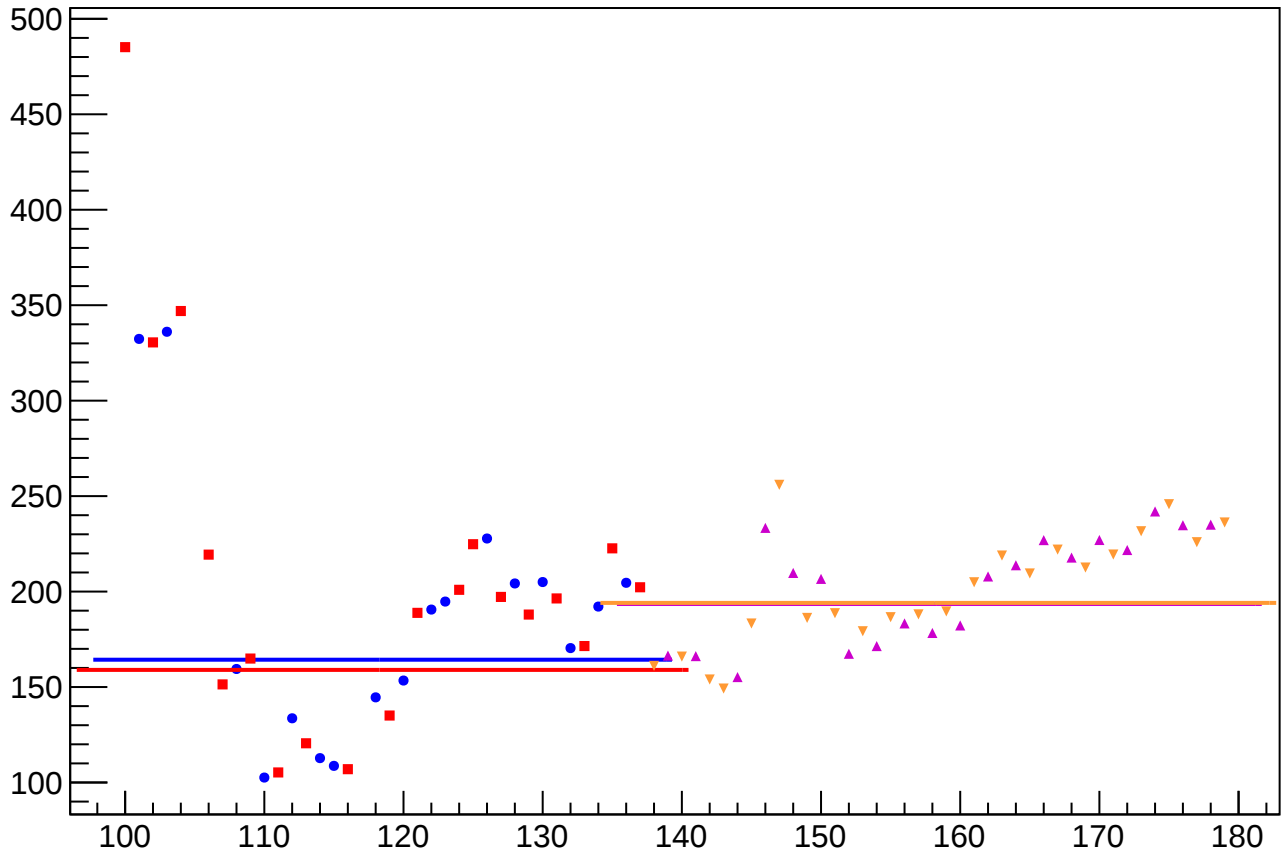
All: 497.352 $\pm$ 0.057 χ^2 /NDF: 5153630.1/77

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458+/-0.068	χ^2/NDF : 4580024611.0/16	Left: 127416.394+/-0.035	χ^2/NDF : 553158734.3/41
Left Out: 127433.726+/-0.049	χ^2/NDF : 284776534.4/21	Right: 135451.454+/-0.047	χ^2/NDF : 9312151817.8/
Right Out: 135504.836+/-0.064	χ^2/NDF : 4730667469.8/18	In: 130197.071+/-0.040	χ^2/NDF : 13758467335.1/3
Left In: 127397.900+/-0.050	χ^2/NDF : 268118347.2/19	Out: 130356.196+/-0.039	χ^2/NDF : 15037898601.7/
		All: 130279.948+/-0.028	χ^2/NDF : 288044475

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 194.073+/-0.034 χ^2/NDF : 672756.4/21

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 193.492+/-0.035 χ^2/NDF : 606470.5/19

Left: 193.792+/-0.025 χ^2/NDF : 1279365.8/41

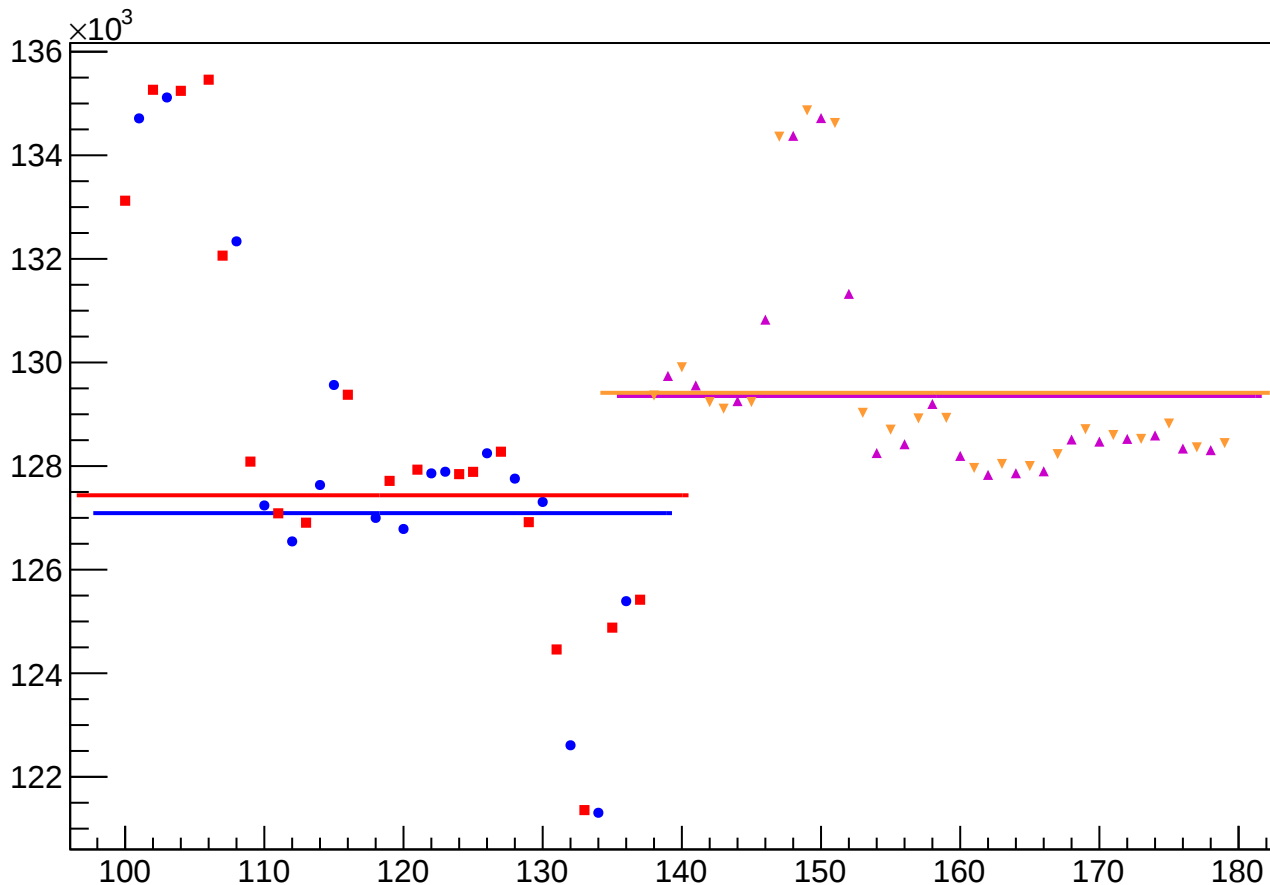
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 183.274+/-0.029 χ^2/NDF : 2074443.5/36

Out: 181.365+/-0.027 χ^2/NDF : 2435821.4/40

All: 182.280+/-0.020 χ^2/NDF : 4512589.2/77

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066

χ^2/NDF : 1717208780.6/16

Left: 129384.860+/-0.035

χ^2/NDF : 2577900681.3/4

Right: 127276.609+/-0.045

χ^2/NDF : 3810794624.3/3

Left Out: 129414.532+/-0.048

χ^2/NDF : 1409372533.2/21

In: 128534.529+/-0.040

χ^2/NDF : 3627388915.3/30

Right Out: 127436.101+/-0.062

χ^2/NDF : 2079075713.9/18

Out: 128658.170+/-0.038

χ^2/NDF : 4126761962.2/4

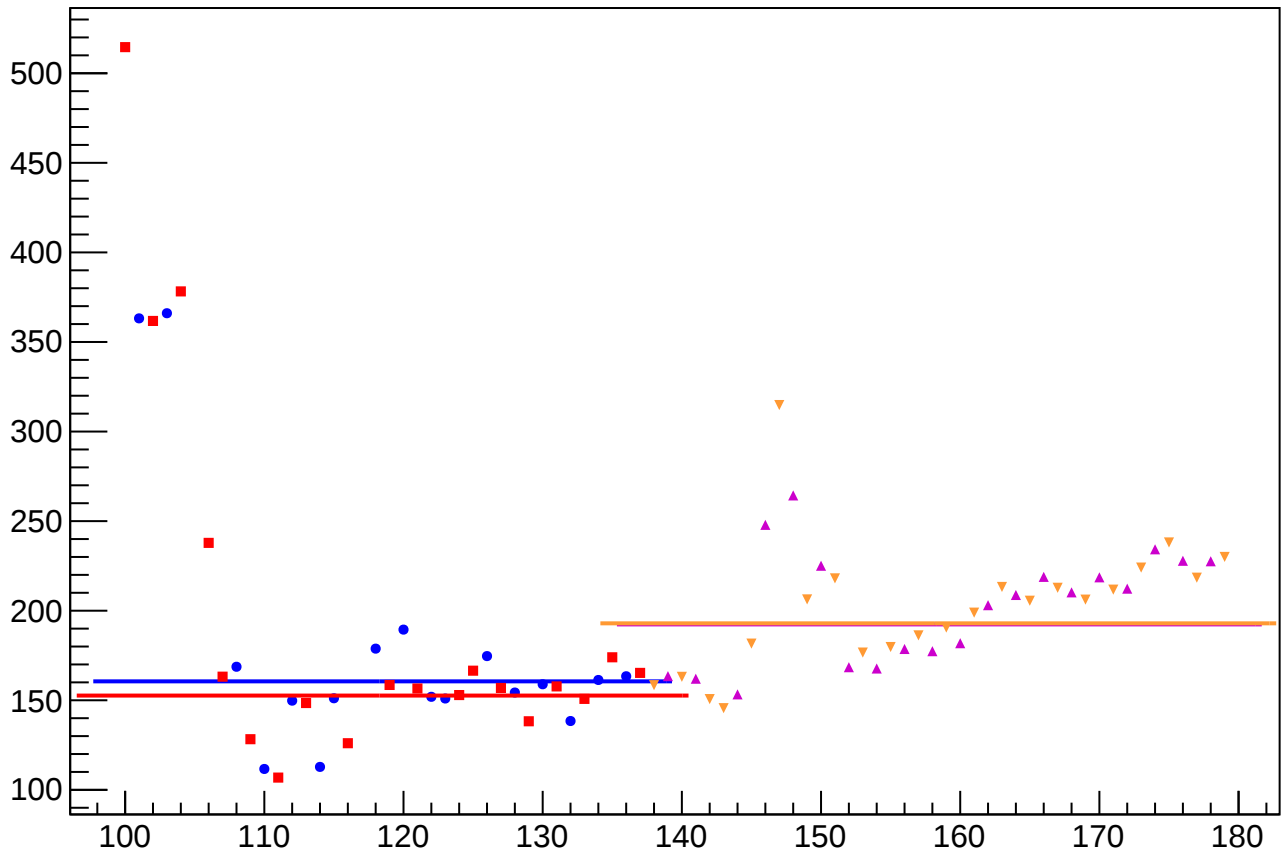
Left In: 129353.288+/-0.050

χ^2/NDF : 1167752965.3/19

All: 128599.264+/-0.028

χ^2/NDF : 775918039.2/10

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564 $\pm$ 0.047 χ^2 /NDF: 942747.0/16

Left Out: 192.947 $\pm$ 0.034 χ^2 /NDF:809498.4/21

Right Out: 152.629 $\pm$ 0.044 χ^2 /NDF: 1086504.4/18

Left In: 192.347 $\pm$ 0.035 χ^2 /NDF:728120.3/19

Left: 192.656 $\pm$ 0.025 χ^2 /NDF: 1537767.6/41

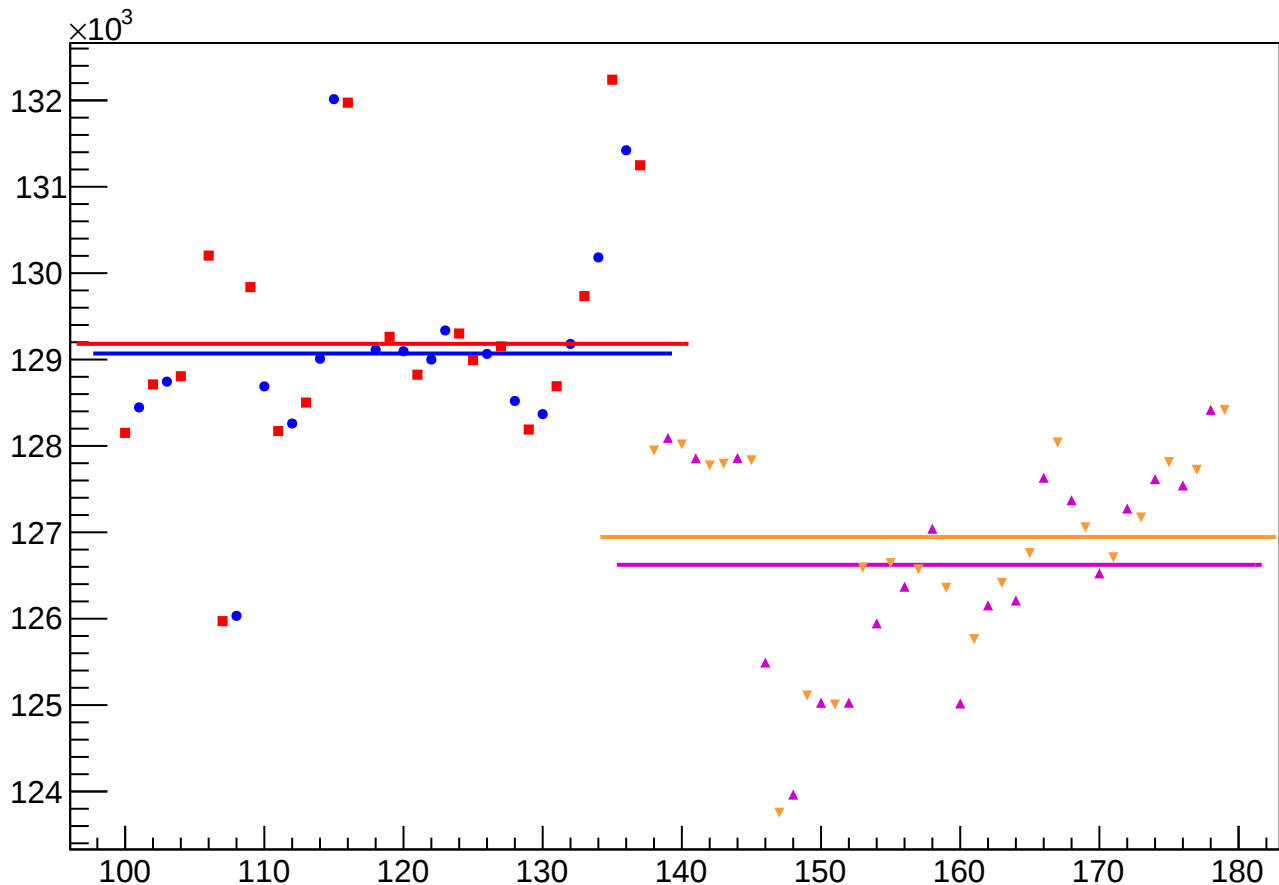
Right: 156.301 $\pm$ 0.032 χ^2 /NDF: 2044640.1/35

In: 180.841 $\pm$ 0.028 χ^2 /NDF:1964063.0/36

Out: 177.533 $\pm$ 0.027 χ^2 /NDF:2426179.8/40

All: 179.109 $\pm$ 0.019 χ^2 /NDF: 4397445.3/77

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060 χ^2 /NDF: 476692316.5/16

Left Out: 126945.910 $\pm$ 0.047 χ^2 /NDF: 521010431.2/21

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: 126790.058 $\pm$ 0.034 χ^2 /NDF: 1175958552.3/4

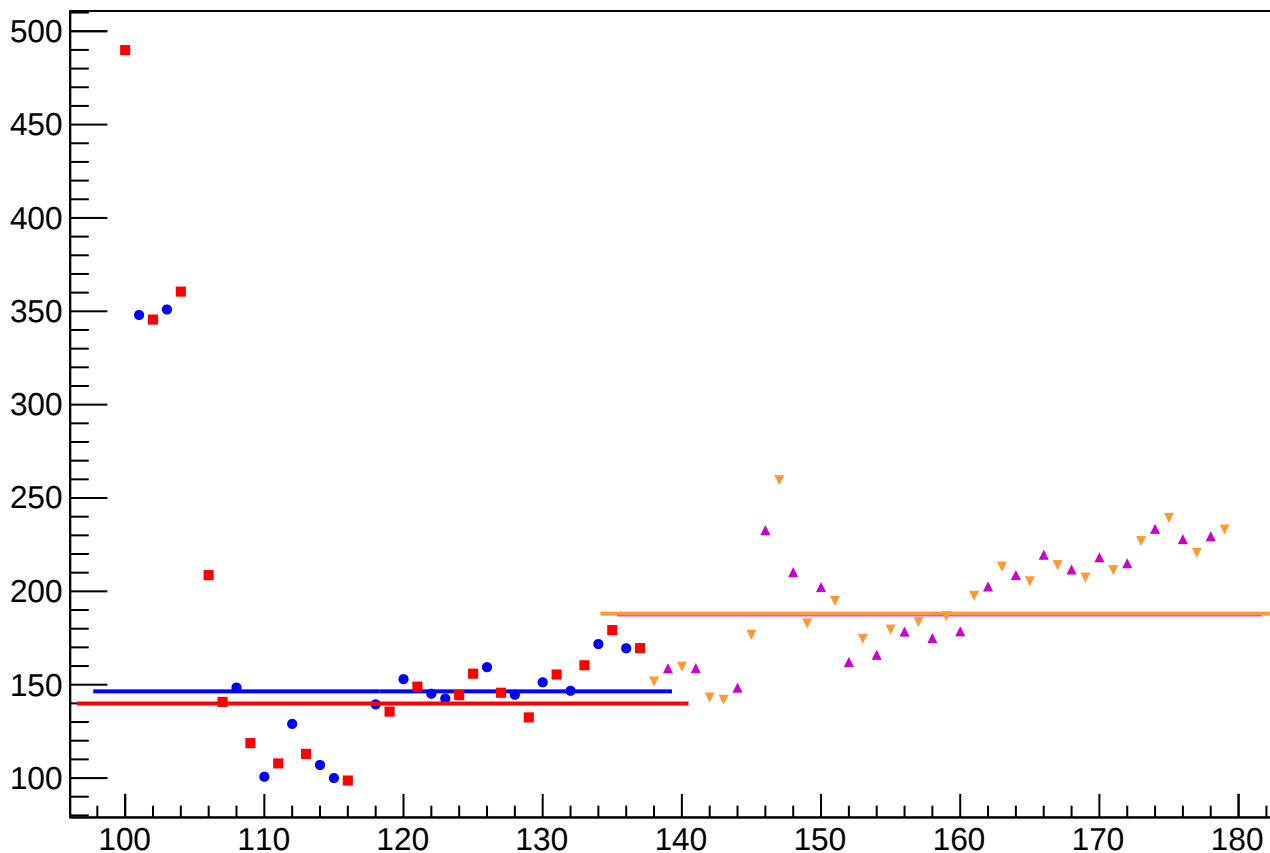
Right: 129129.710 $\pm$ 0.041 χ^2 /NDF: 1104150743.5/1

In: 127590.600 $\pm$ 0.038 χ^2 /NDF: 2108217426.6/30

Out: 127870.676 $\pm$ 0.036 χ^2 /NDF: 2078459427.9/4

All: 127737.290 $\pm$ 0.026 χ^2 /NDF: 421538649.0/1

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 188.065 $\pm$ 0.033 χ^2 /NDF: 790276.5/21

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 187.680 $\pm$ 0.034 χ^2 /NDF: 660671.1/19

Left: 187.879 $\pm$ 0.024 χ^2 /NDF: 1451012.2/41

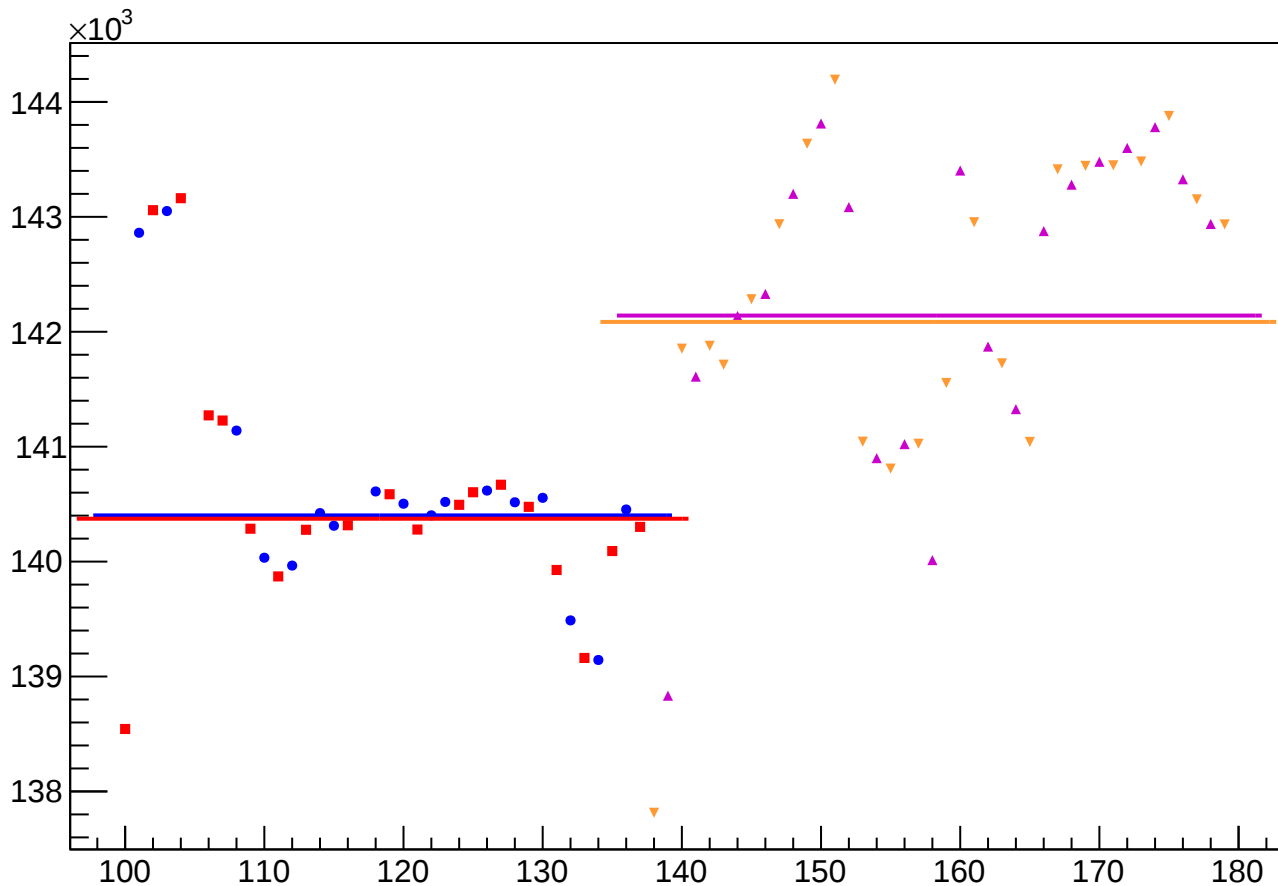
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 171.378 $\pm$ 0.027 χ^2 /NDF: 2293695.0/36

Out: 168.157 $\pm$ 0.026 χ^2 /NDF: 2857576.4/40

All: 169.691 $\pm$ 0.018 χ^2 /NDF: 5158868.6/77

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 142112.557 $\pm$ 0.039

χ^2 /NDF: 1426534210.3/4

Right: 140386.544 $\pm$ 0.044

χ^2 /NDF: 188034057.1/3

Left Out: 142085.687 $\pm$ 0.054

χ^2 /NDF: 797611750.8/21

In: 141394.814 $\pm$ 0.042

χ^2 /NDF: 1133455117.0/30

Right Out: 140373.163 $\pm$ 0.060

χ^2 /NDF: 99854533.3/18

Out: 141314.235 $\pm$ 0.040

χ^2 /NDF: 1347368756.3/4

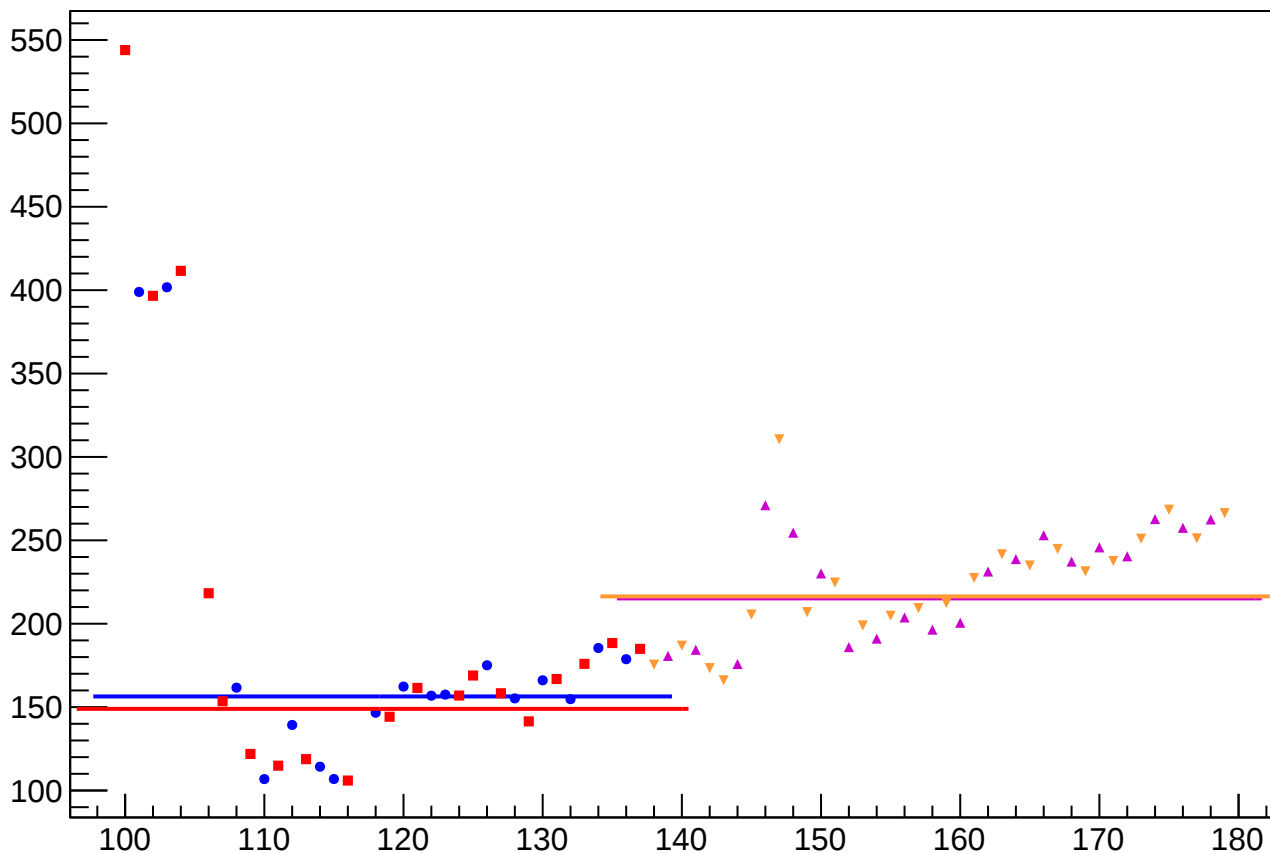
Left In: 142141.034 $\pm$ 0.056

χ^2 /NDF: 628416016.0/19

All: 141352.587 $\pm$ 0.029

χ^2 /NDF: 248273895

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 216.377 $\pm$ 0.038 χ^2 /NDF: 695897.5/21

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: 215.799 $\pm$ 0.027 χ^2 /NDF: 1315909.5/41

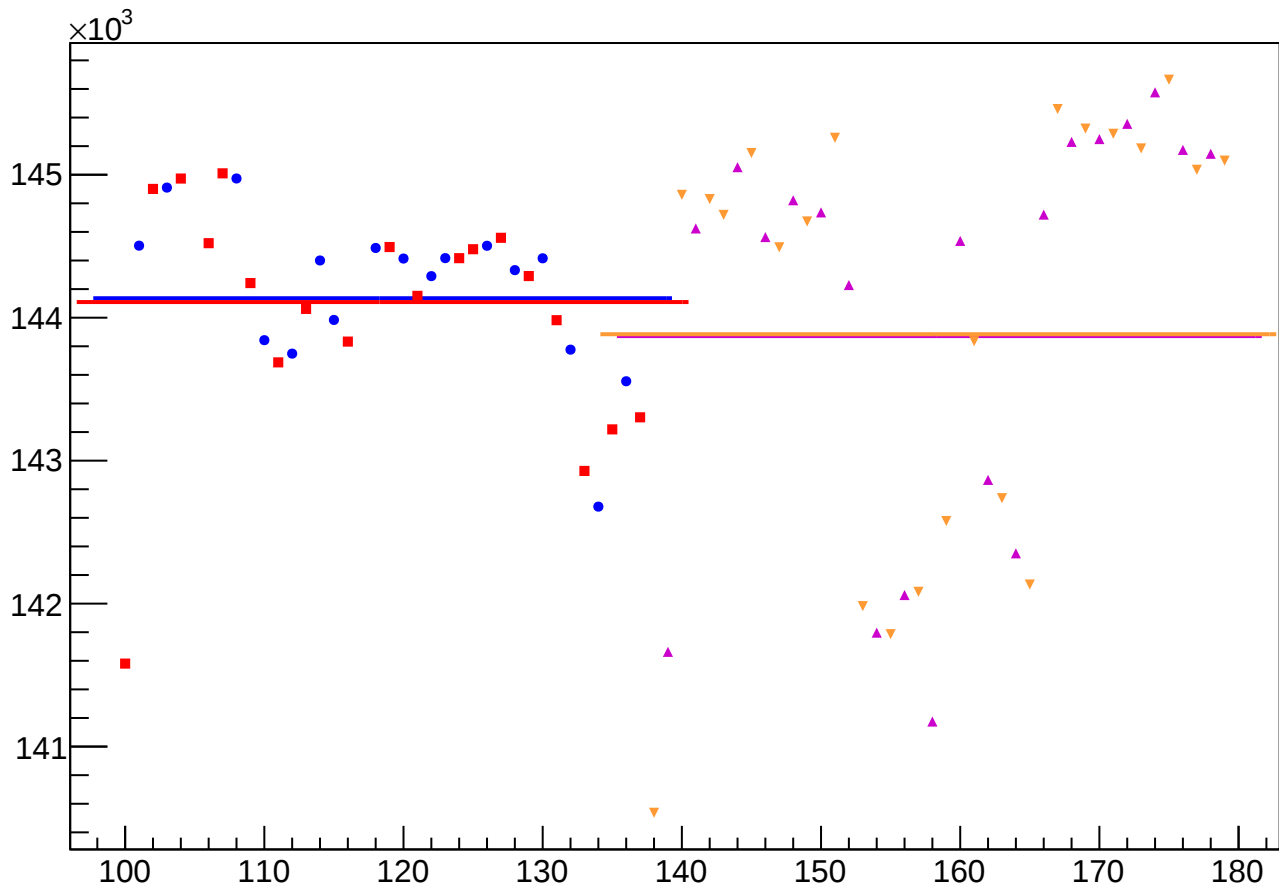
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 189.958 $\pm$ 0.030 χ^2 /NDF: 2727515.4/36

Out: 186.002 $\pm$ 0.028 χ^2 /NDF: 3398461.4/40

All: 187.885 $\pm$ 0.021 χ^2 /NDF: 6135208.9/77

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left: 143878.086 $\pm$ 0.039

χ^2 /NDF: 1537909640.3/4

Left Out: 143884.331 $\pm$ 0.054

χ^2 /NDF: 841644493.1/21

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

In: 143980.177 $\pm$ 0.043

χ^2 /NDF: 752565649.9/36

Out: 143981.629 $\pm$ 0.041

χ^2 /NDF: 914417842.0/40

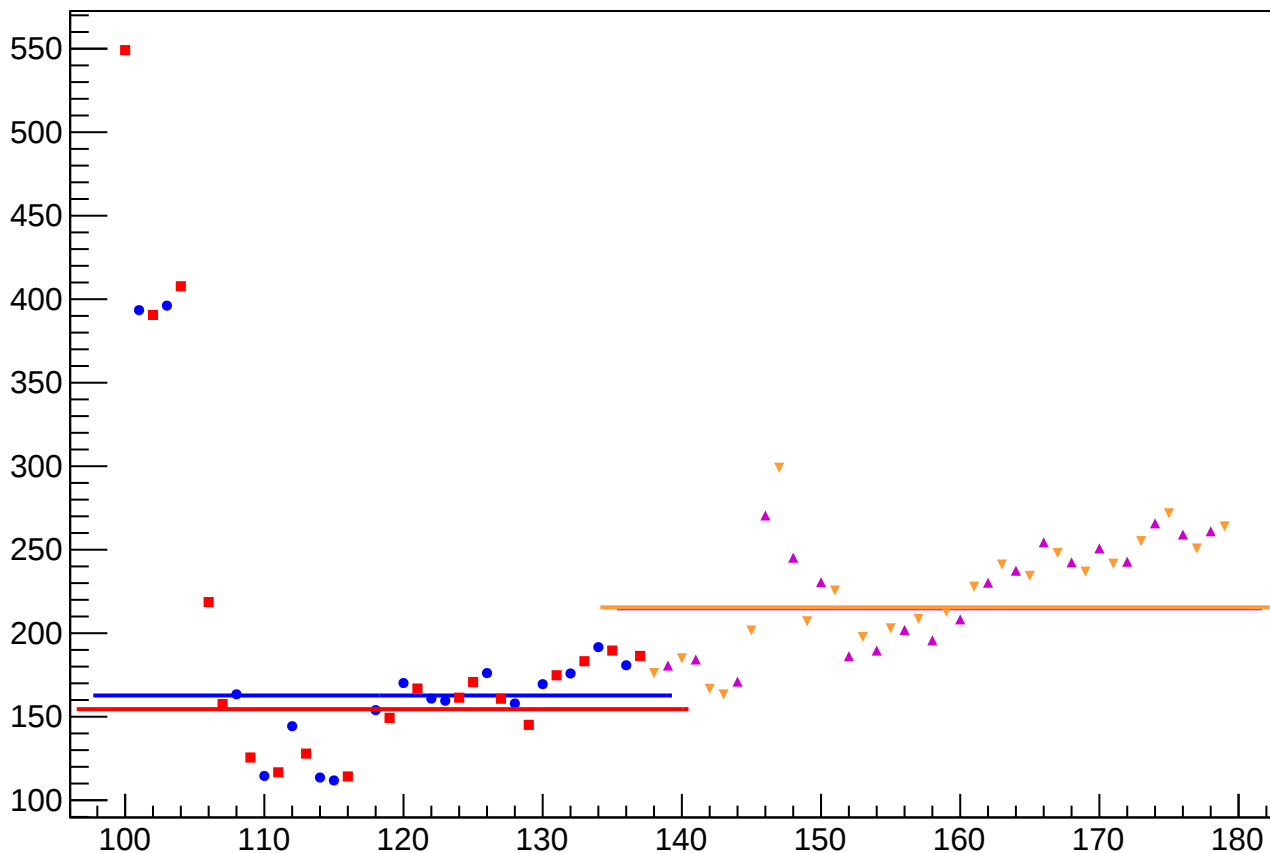
Left In: 143871.424 $\pm$ 0.056

χ^2 /NDF: 696237488.1/19

All: 143980.940 $\pm$ 0.029

χ^2 /NDF: 166698409

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714+/-0.047 χ^2/NDF : 1066482.0/16

Left Out: 215.488+/-0.038 χ^2/NDF : 744862.1/21

Right Out: 154.547+/-0.044 χ^2/NDF : 1217495.9/18

Left In: 214.904+/-0.039 χ^2/NDF : 654147.6/19

Left: 215.205+/-0.027 χ^2/NDF : 1399123.1/41

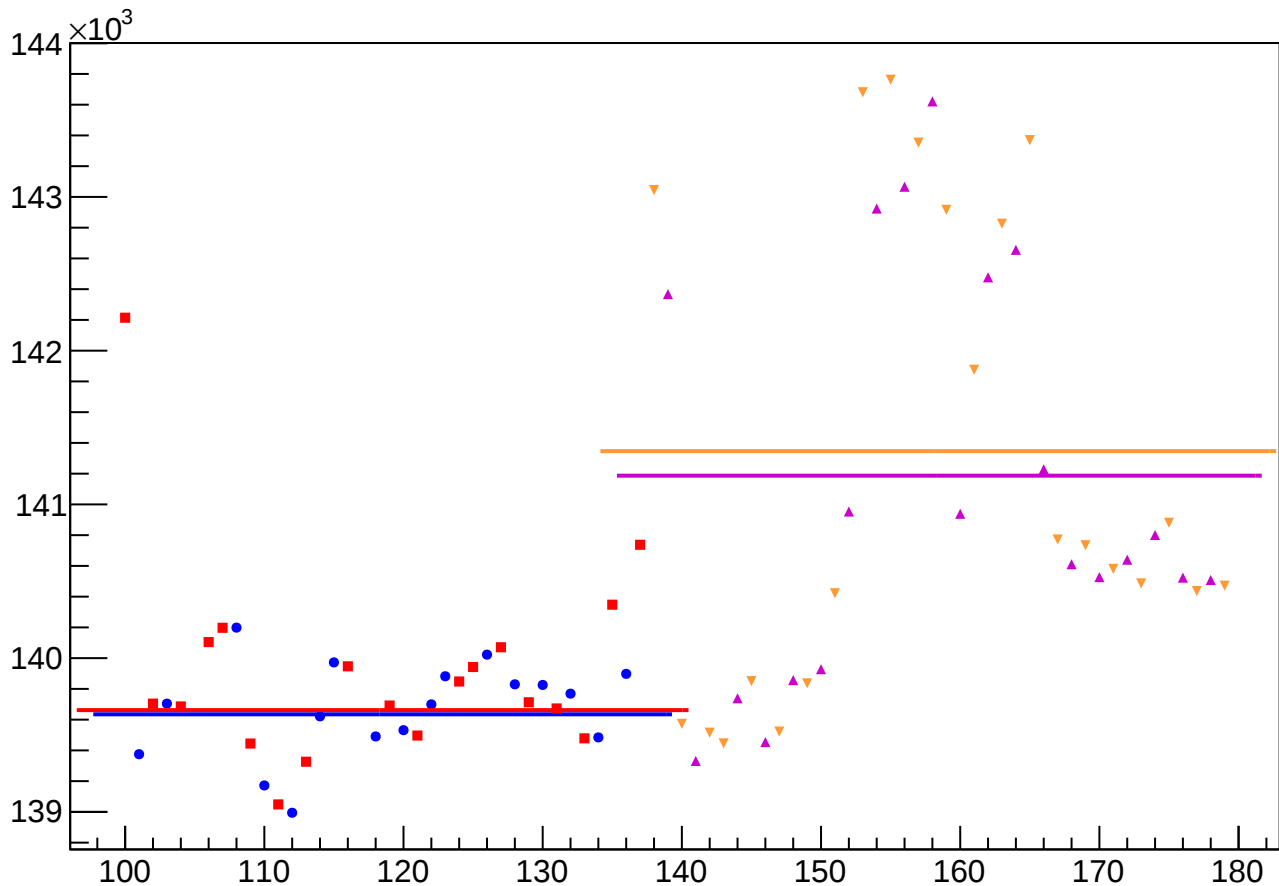
Right: 158.320+/-0.032 χ^2/NDF : 2300078.3/35

In: 193.461+/-0.030 χ^2/NDF : 2440509.0/36

Out: 189.145+/-0.029 χ^2/NDF : 3064052.5/40

All: 191.193+/-0.021 χ^2/NDF : 5515245.9/77

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700+/-0.068 χ^2/NDF : 24844912.0/16

Left Out: 141346.480+/-0.056 χ^2/NDF : 766566359.0/21

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: 141268.657+/-0.040 χ^2/NDF : 1314542181.2/4

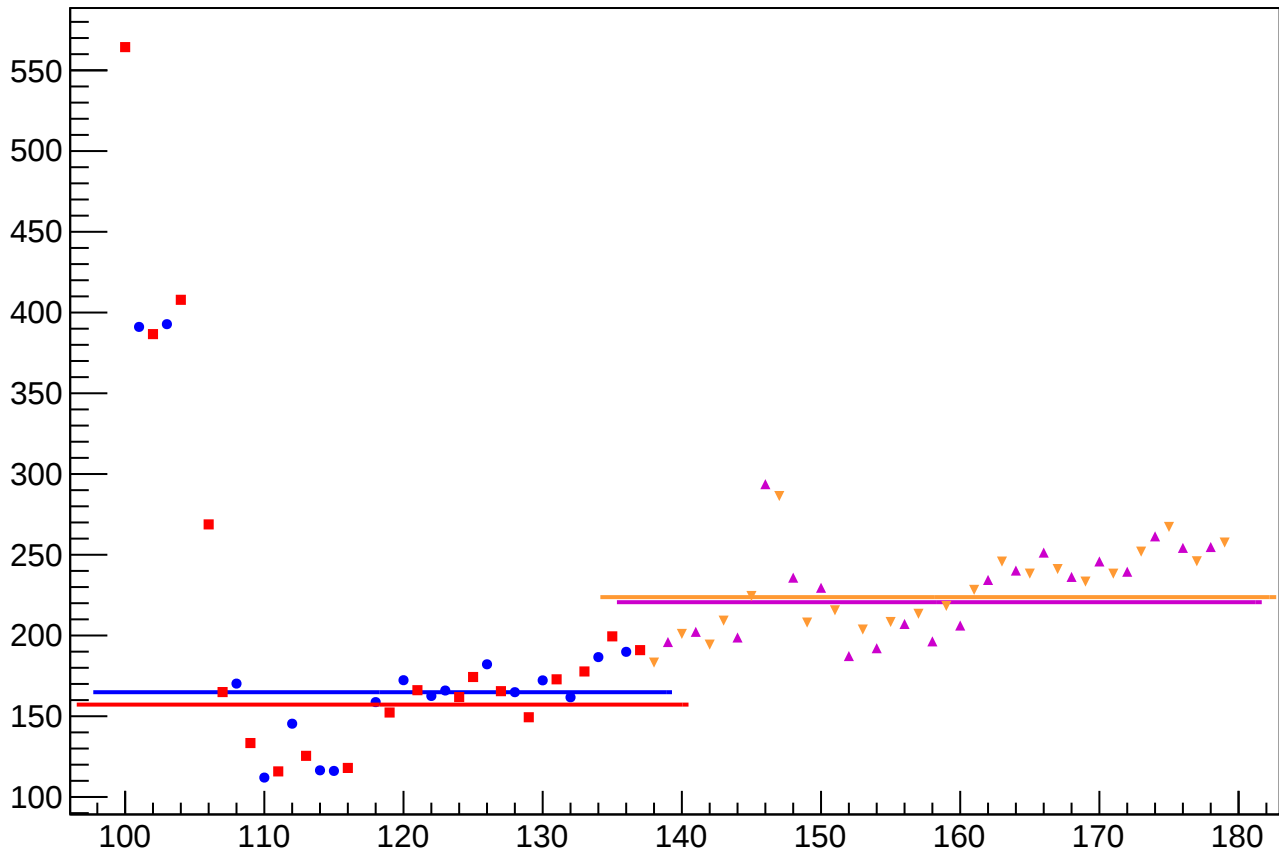
Right: 139649.322+/-0.046 χ^2/NDF : 63304699.0/35

In: 140543.312+/-0.044 χ^2/NDF : 875855070.7/36

Out: 140608.186+/-0.042 χ^2/NDF : 1206066135.0/4

All: 140577.201+/-0.030 χ^2/NDF : 20830754

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 ± 0.048 χ^2/NDF : 1066270.8/16

Left Out: 223.765 ± 0.039 χ^2/NDF : 363734.2/21

Right Out: 157.207 ± 0.045 χ^2/NDF : 1245030.9/18

Left In: 220.627 ± 0.040 χ^2/NDF : 438038.7/19

Left: 222.234 ± 0.028 χ^2/NDF : 804871.7/41

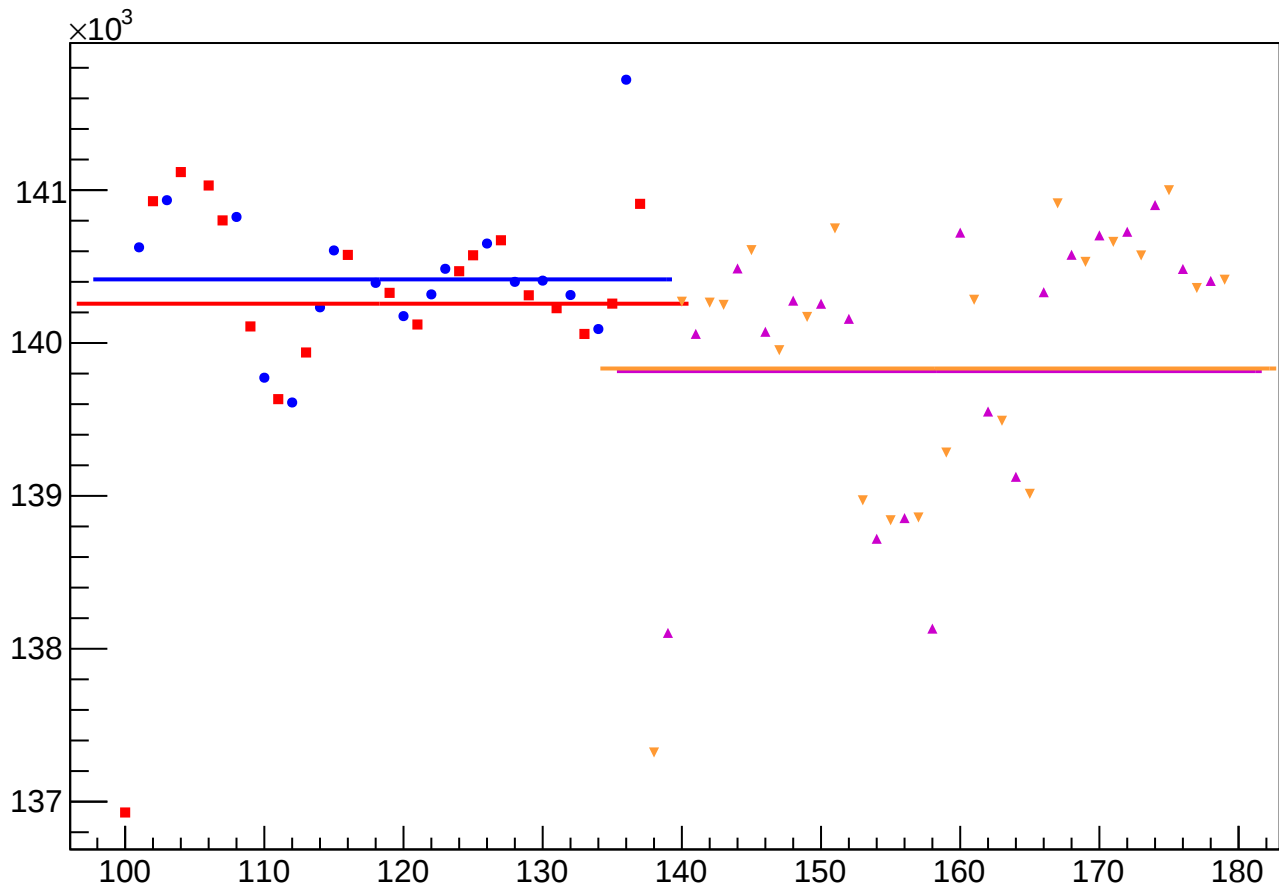
Right: 160.768 ± 0.033 χ^2/NDF : 2325060.5/35

In: 197.513 ± 0.031 χ^2/NDF : 2296198.5/36

Out: 194.594 ± 0.030 χ^2/NDF : 2861220.2/40

All: 195.988 ± 0.021 χ^2/NDF : 5162092.8/77

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 ± 0.068 $\chi^2/\text{NDF}: 69975821.3/16$

Left Out: 139833.142 ± 0.053 $\chi^2/\text{NDF}: 326373202.2/21$

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: 139824.923 ± 0.038 $\chi^2/\text{NDF}: 600546007.4/41$

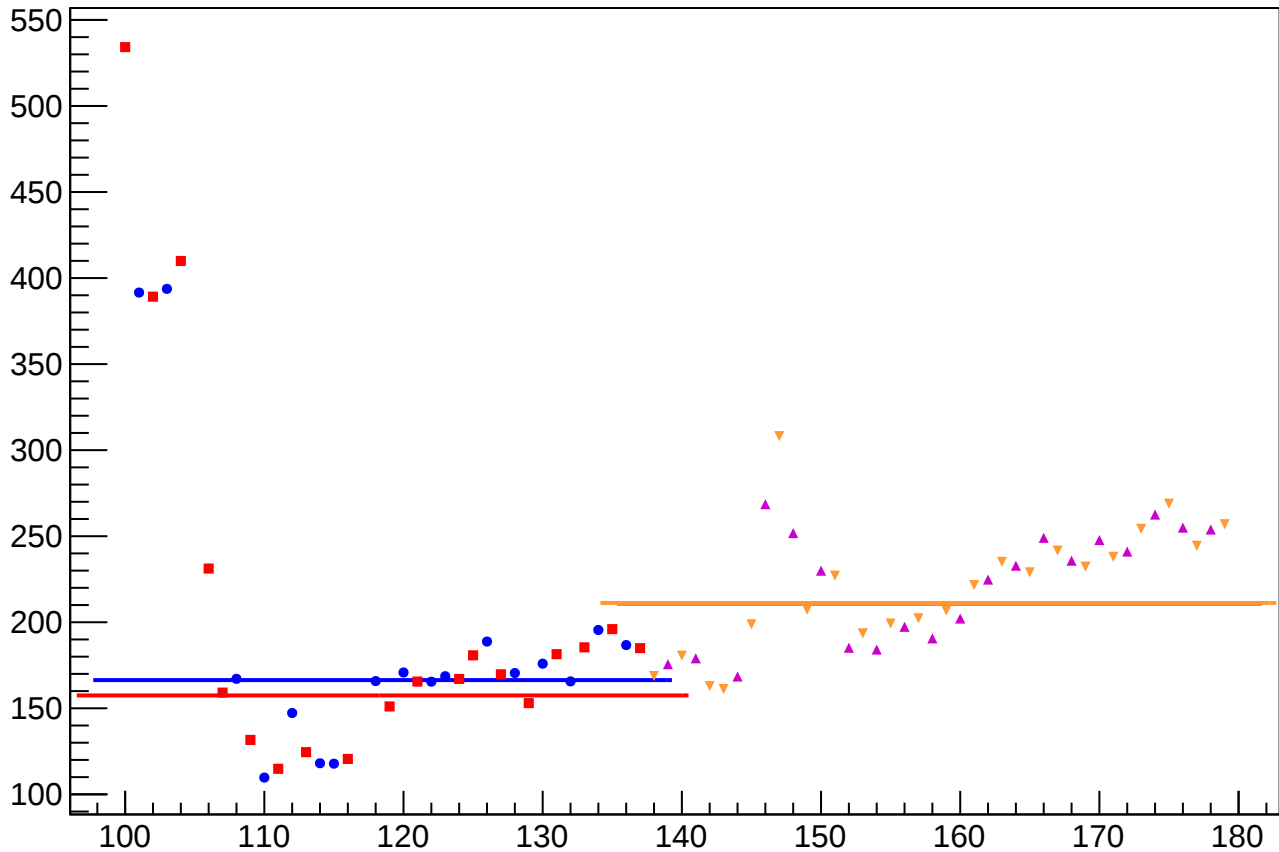
Right: 140330.188 ± 0.046 $\chi^2/\text{NDF}: 110959487.0/3$

In: 140050.236 ± 0.043 $\chi^2/\text{NDF}: 391016697.4/36$

Out: 140008.026 ± 0.041 $\chi^2/\text{NDF}: 390902918.1/40$

All: 140028.035 ± 0.029 $\chi^2/\text{NDF}: 782433006$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388+/-0.048 χ^2/NDF : 1080964.8/16

Left Out: 211.219+/-0.037 χ^2/NDF : 800768.6/21

Right Out: 157.475+/-0.045 χ^2/NDF : 1229886.8/18

Left In: 210.868+/-0.039 χ^2/NDF : 695918.5/19

Left: 211.049+/-0.027 χ^2/NDF : 1496729.6/41

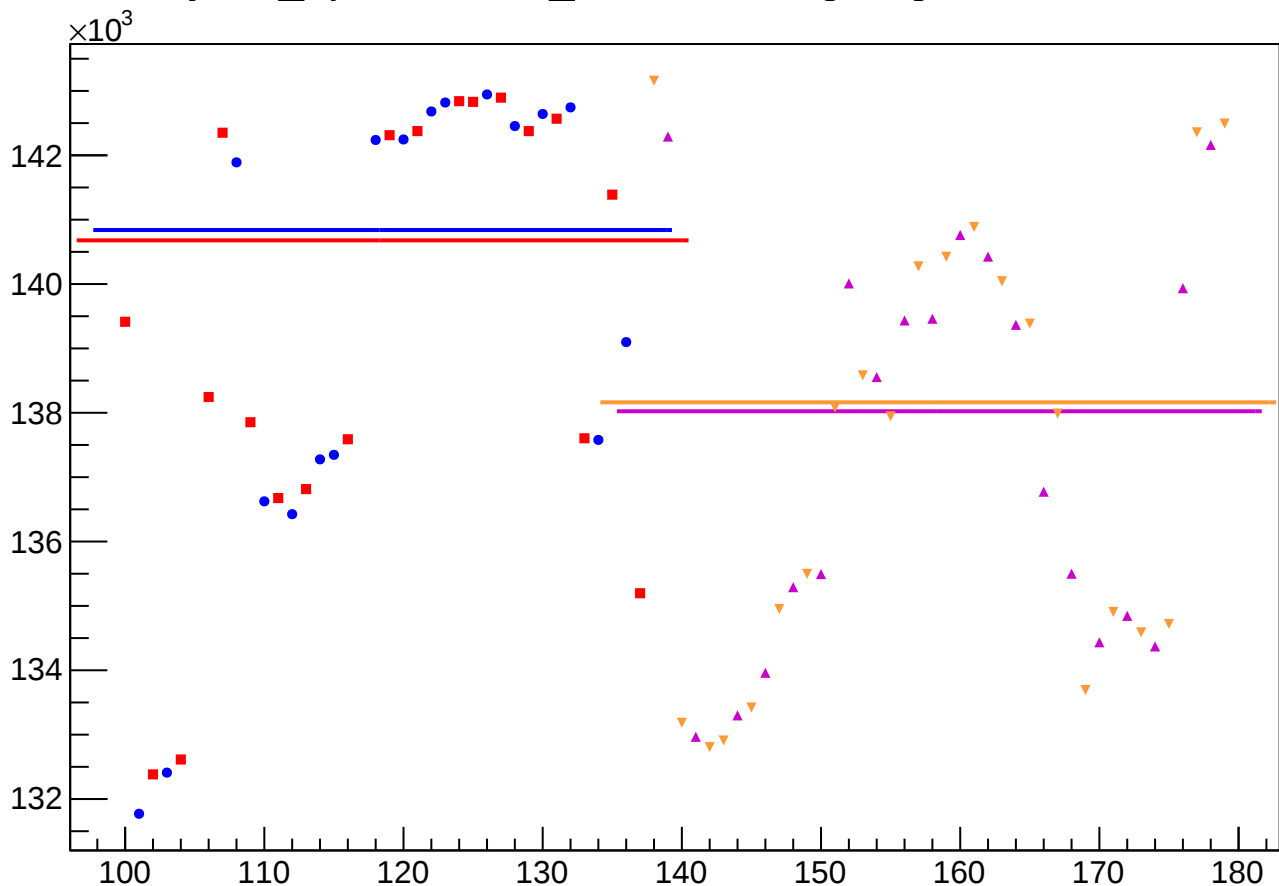
Right: 161.576+/-0.033 χ^2/NDF : 2329186.5/35

In: 193.511+/-0.030 χ^2/NDF : 2292708.5/36

Out: 189.044+/-0.029 χ^2/NDF : 2881703.6/40

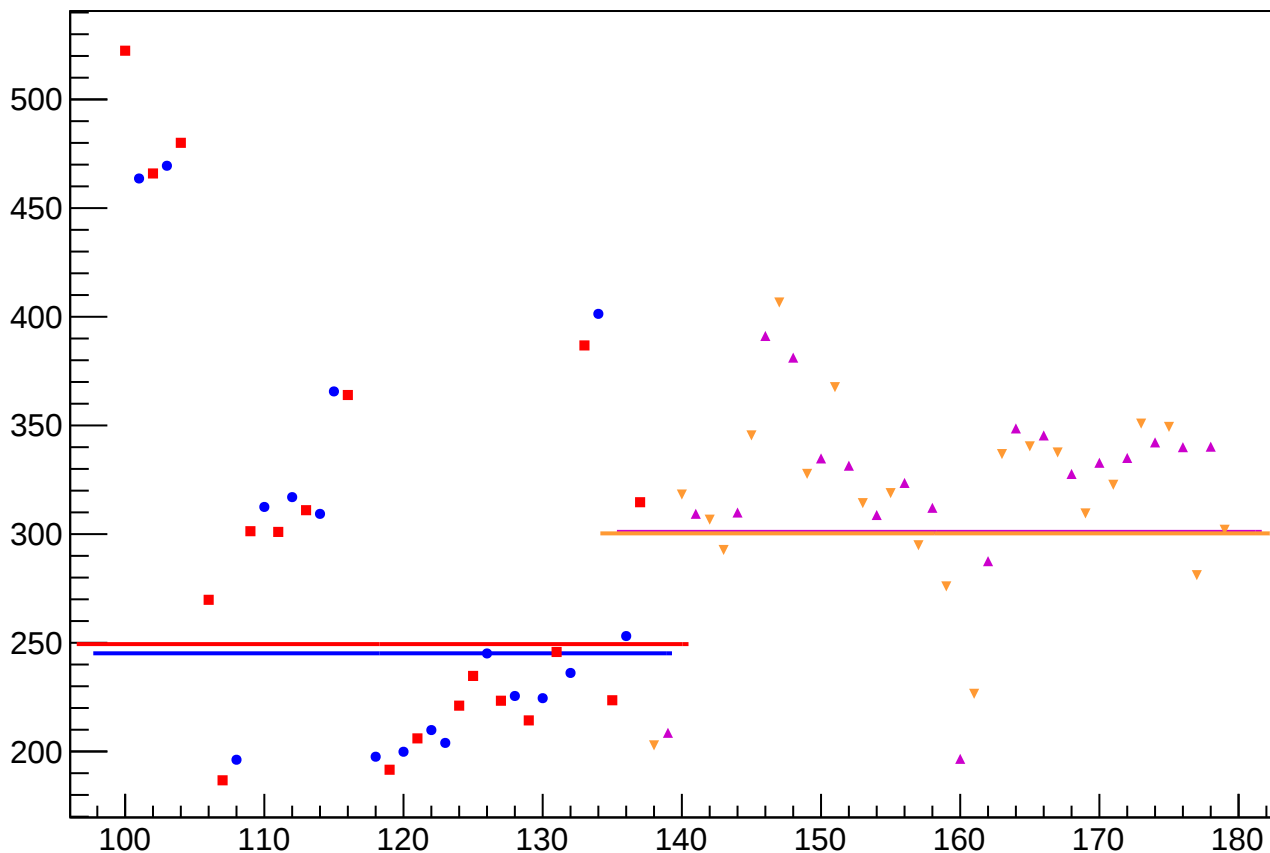
All: 191.161+/-0.021 χ^2/NDF : 5185913.6/77

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2/NDF : 822682996.3/16	Left: 138096.160 $\pm$ 0.055	χ^2/NDF : 3686574231.7/4
Left Out: 138162.710 $\pm$ 0.076	χ^2/NDF : 2129665917.9/21	Right: 140758.088 $\pm$ 0.070	χ^2/NDF : 1664679717.2/21
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: 139090.337 $\pm$ 0.060	χ^2/NDF : 3377201080.7/4
		All: 139097.687 $\pm$ 0.043	χ^2/NDF : 624318365.0/19

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159 $\pm$ 0.071 χ^2 /NDF: 869491.6/16

Left Out: 300.336 $\pm$ 0.054 χ^2 /NDF:843448.3/21

Right Out: 249.397 $\pm$ 0.070 χ^2 /NDF: 1009731.2/18

Left In: 301.030 $\pm$ 0.056 χ^2 /NDF:1035346.6/19

Left: 300.669 $\pm$ 0.039 χ^2 /NDF: 1878875.3/41

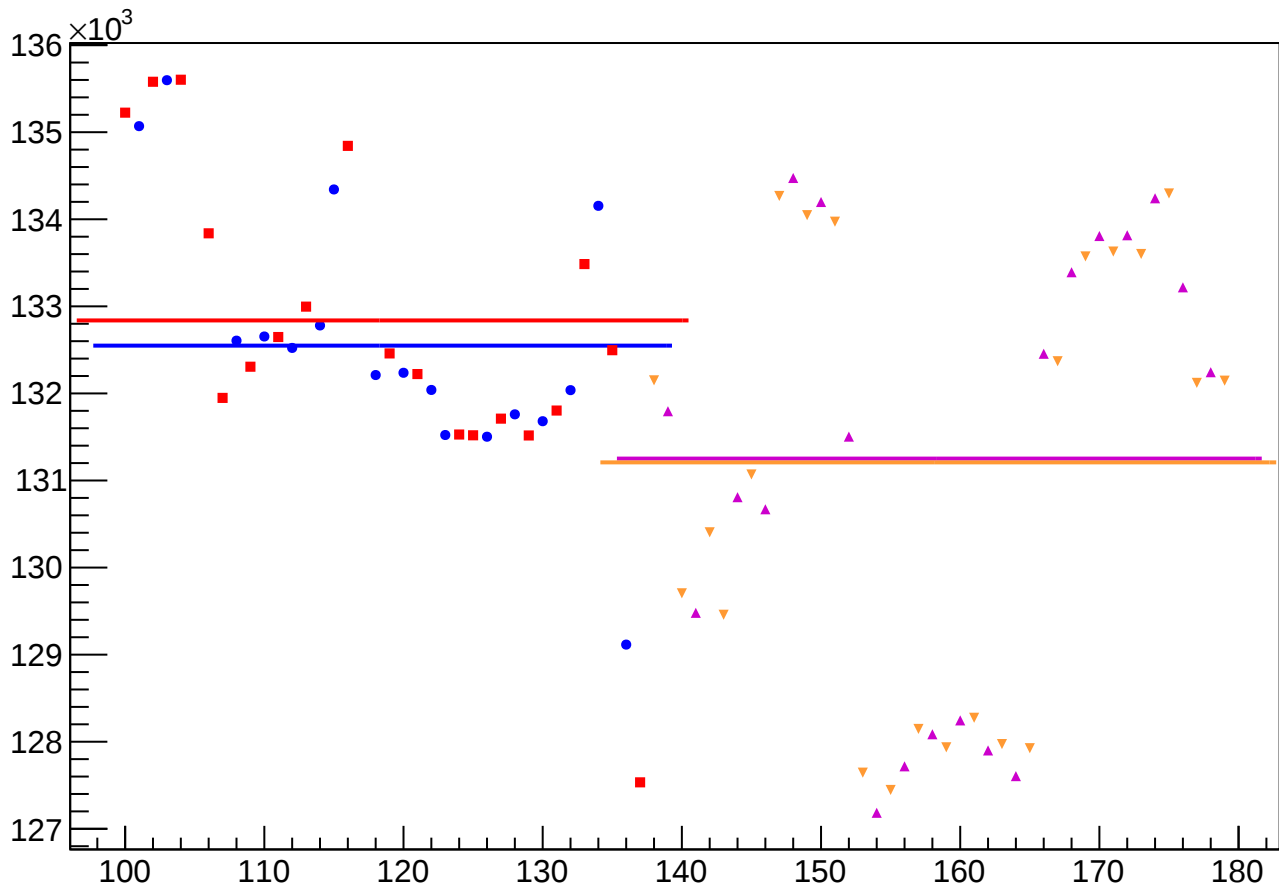
Right: 247.297 $\pm$ 0.050 χ^2 /NDF: 1881034.9/35

In: 279.563 $\pm$ 0.044 χ^2 /NDF:2289191.5/36

Out: 281.554 $\pm$ 0.043 χ^2 /NDF:2186767.0/40

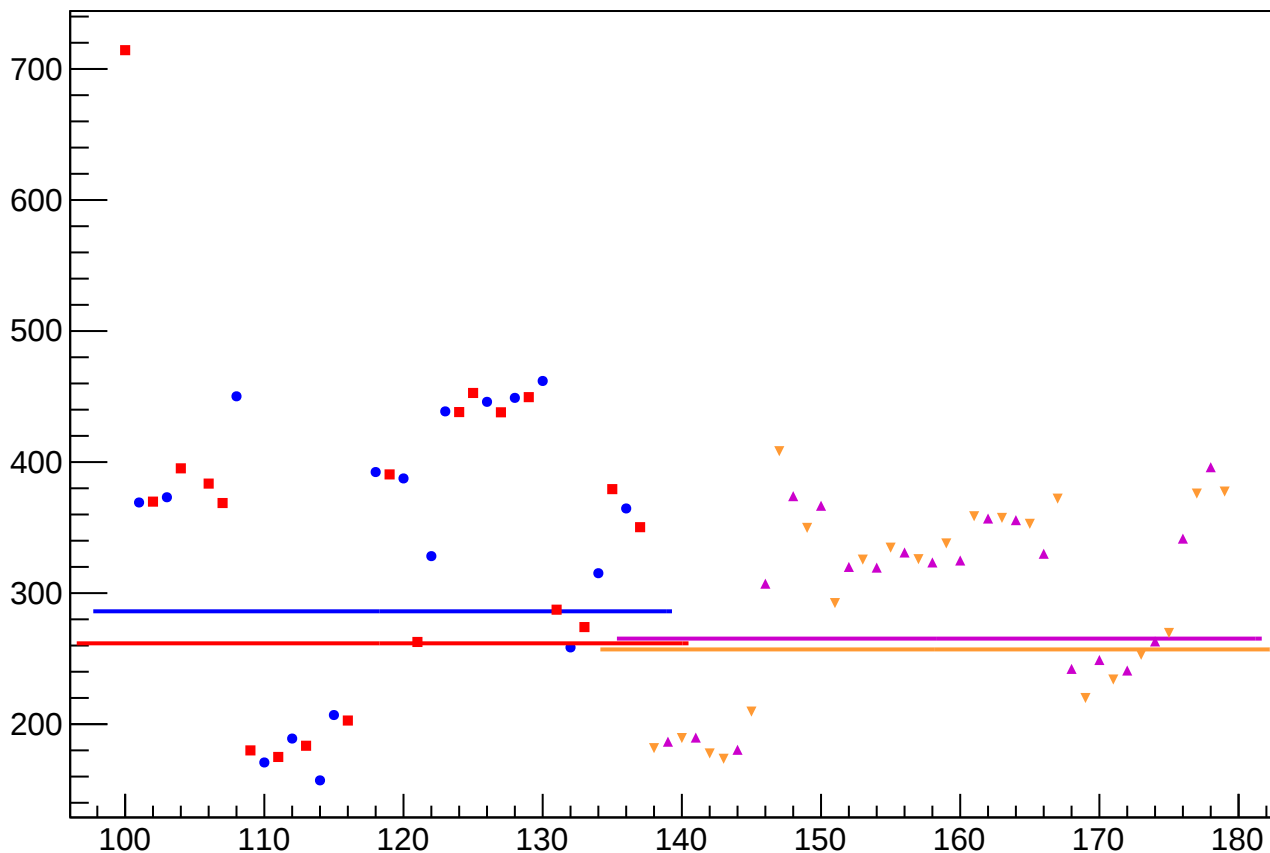
All: 280.588 $\pm$ 0.031 χ^2 /NDF: 4477020.4/77

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888 $\pm$ 0.119	χ^2 /NDF: 161115079.9/16	Left: 131228.503 $\pm$ 0.048	χ^2 /NDF: 2214275281.3/4
Left Out: 131208.137 $\pm$ 0.066	χ^2 /NDF: 1163671503.2/21	Right: 132709.226 $\pm$ 0.080	χ^2 /NDF: 313982981.1/3
Right Out: 132838.294 $\pm$ 0.107	χ^2 /NDF: 149611447.6/18	In: 131587.094 $\pm$ 0.061	χ^2 /NDF: 1299087184.8/36
Left In: 131251.505 $\pm$ 0.071	χ^2 /NDF: 1050403140.8/19	Out: 131660.243 $\pm$ 0.056	χ^2 /NDF: 1480704818.5/4
		All: 131626.357 $\pm$ 0.041	χ^2 /NDF: 278057119

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 $\pm$ 0.084 χ^2/NDF : 1525266.4/16

Left Out: 257.033 $\pm$ 0.047 χ^2/NDF :2477783.9/21

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: 260.911 $\pm$ 0.034 χ^2/NDF : 4404250.5/41

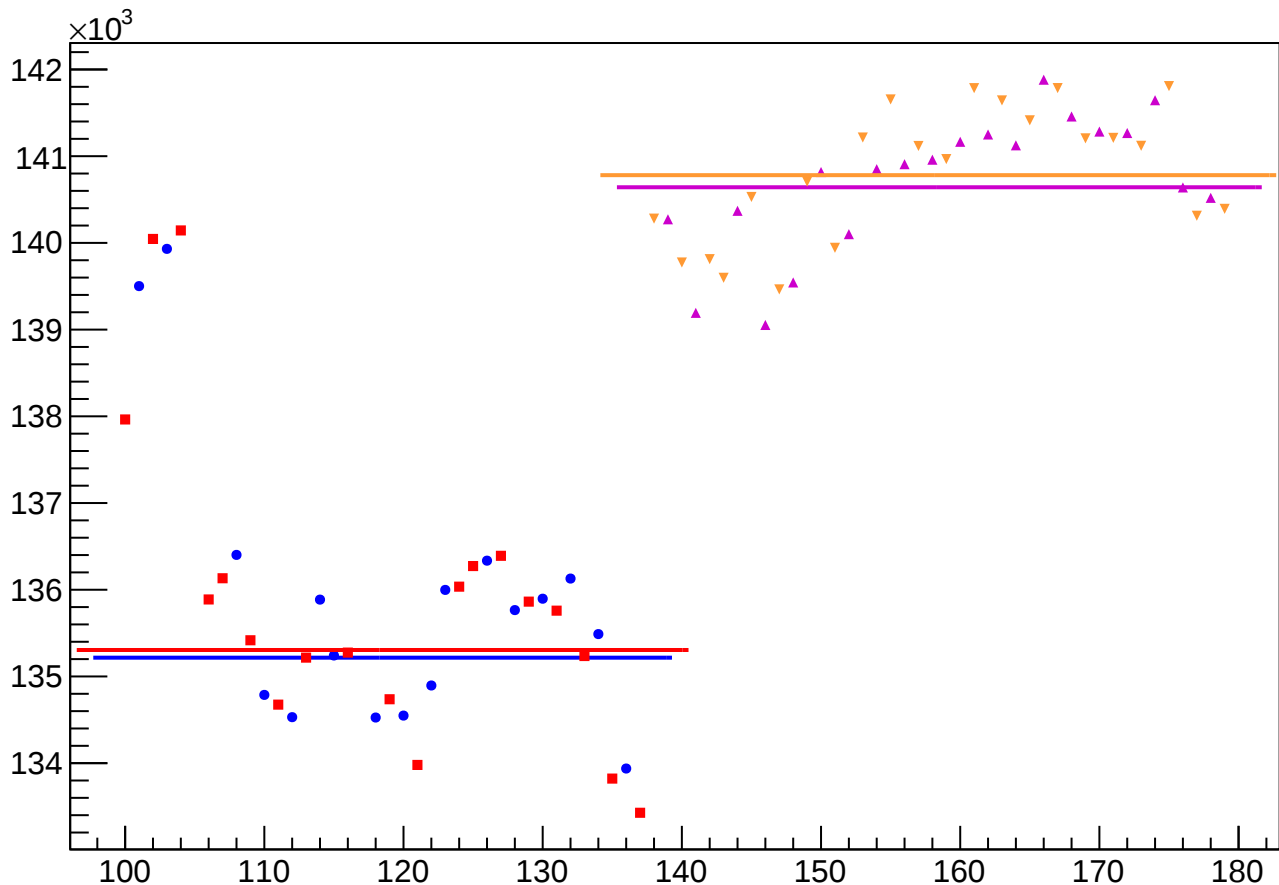
Right: 272.584 $\pm$ 0.056 χ^2/NDF : 3194872.3/35

In: 270.679 $\pm$ 0.043 χ^2/NDF :3482338.1/36

Out: 258.323 $\pm$ 0.040 χ^2/NDF :4103686.4/40

All: 264.047 $\pm$ 0.029 χ^2/NDF : 7630485.5/77

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054 χ^2 /NDF: 371347707.3/16

Left Out: 140781.195 $\pm$ 0.050 χ^2 /NDF: 221350770.5/21

Right Out: 135305.135 $\pm$ 0.051 χ^2 /NDF: 357636841.6/18

Left In: 140641.660 $\pm$ 0.053 χ^2 /NDF: 190871140.4/19

Left: 140715.231 $\pm$ 0.036 χ^2 /NDF: 415927074.4/41

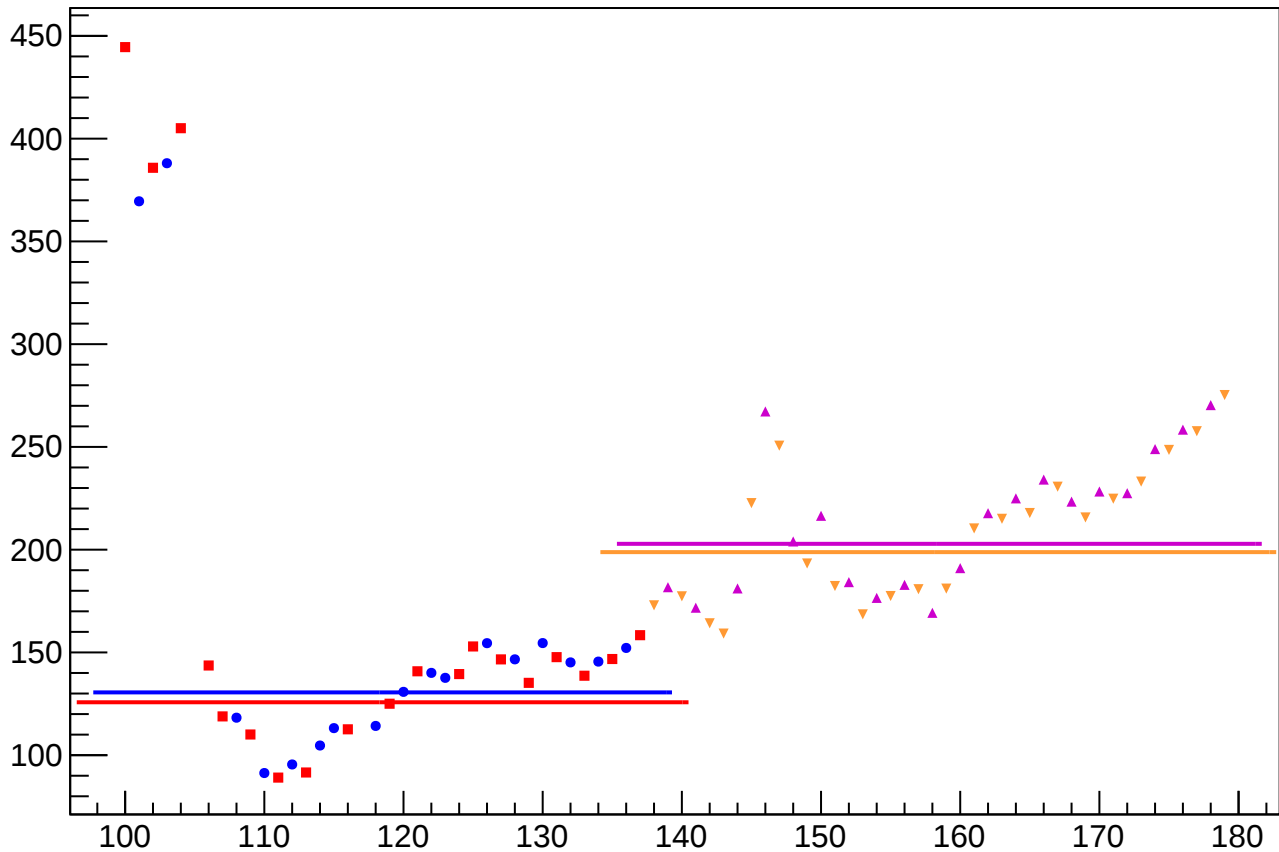
Right: 135263.557 $\pm$ 0.037 χ^2 /NDF: 730392205.8/3

In: 138016.282 $\pm$ 0.038 χ^2 /NDF: 5702896188.2/30

Out: 138113.632 $\pm$ 0.036 χ^2 /NDF: 6459239761.5/4

All: 138067.761 $\pm$ 0.026 χ^2 /NDF: 121656409

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 198.807 $\pm$ 0.035 χ^2 /NDF: 753087.3/21

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: 200.715 $\pm$ 0.026 χ^2 /NDF: 1394155.8/41

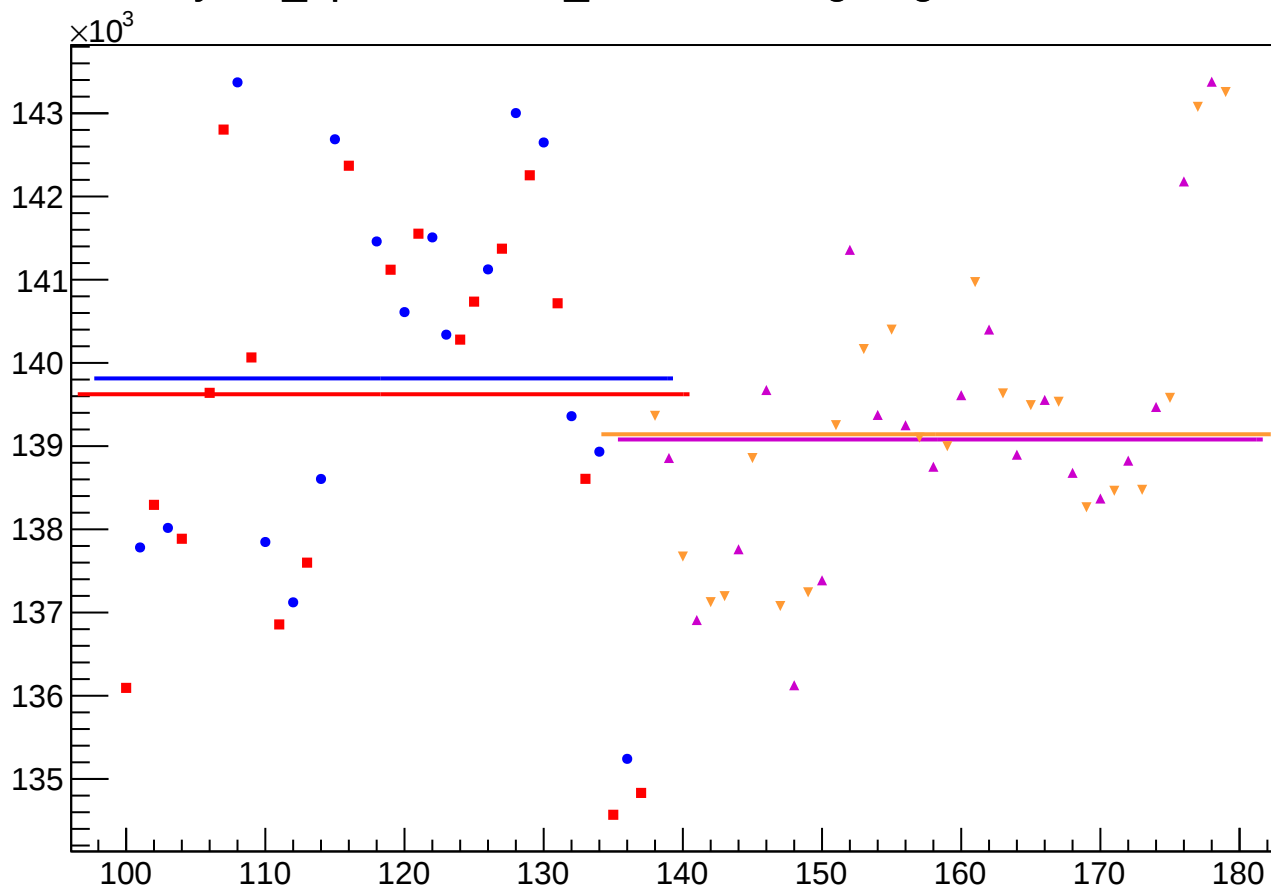
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 167.859 $\pm$ 0.027 χ^2 /NDF: 3833629.8/36

Out: 163.217 $\pm$ 0.025 χ^2 /NDF: 4286572.0/40

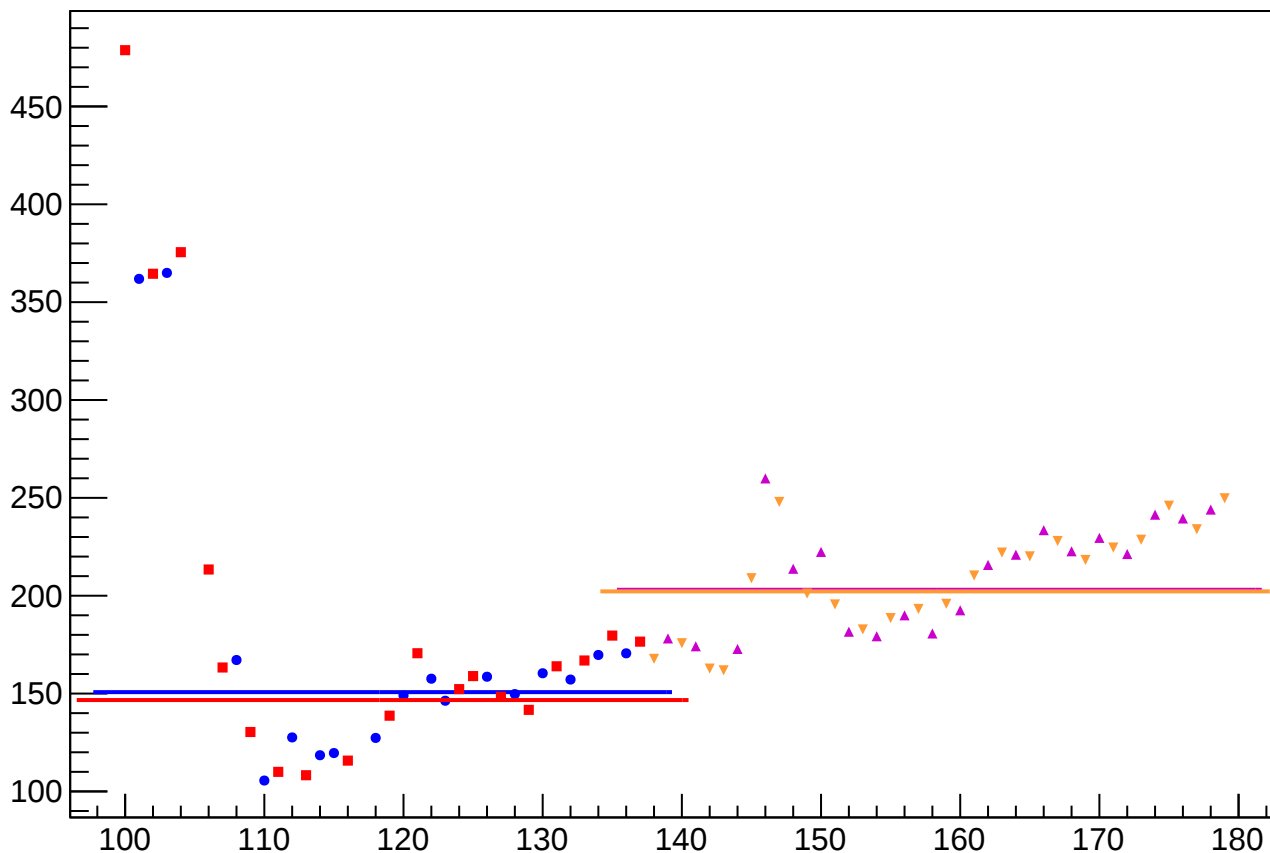
All: 165.404 $\pm$ 0.018 χ^2 /NDF: 8136142.9/77

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062	χ^2 /NDF: 1689865533.6/16	Left: 139112.348 $\pm$ 0.036	χ^2 /NDF: 1846784322.5/16
Left Out: 139142.541 $\pm$ 0.051	χ^2 /NDF: 921610219.2/21	Right: 139713.961 $\pm$ 0.043	χ^2 /NDF: 3200544274.5/21
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
Left In: 139079.726 $\pm$ 0.053	χ^2 /NDF: 924433753.9/19	Out: 139346.315 $\pm$ 0.038	χ^2 /NDF: 2465589363.6/19
		All: 139365.988 $\pm$ 0.028	χ^2 /NDF: 516202516.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 202.212 $\pm$ 0.036 χ^2 /NDF:532796.8/21

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: 202.611 $\pm$ 0.026 χ^2 /NDF: 1024033.9/41

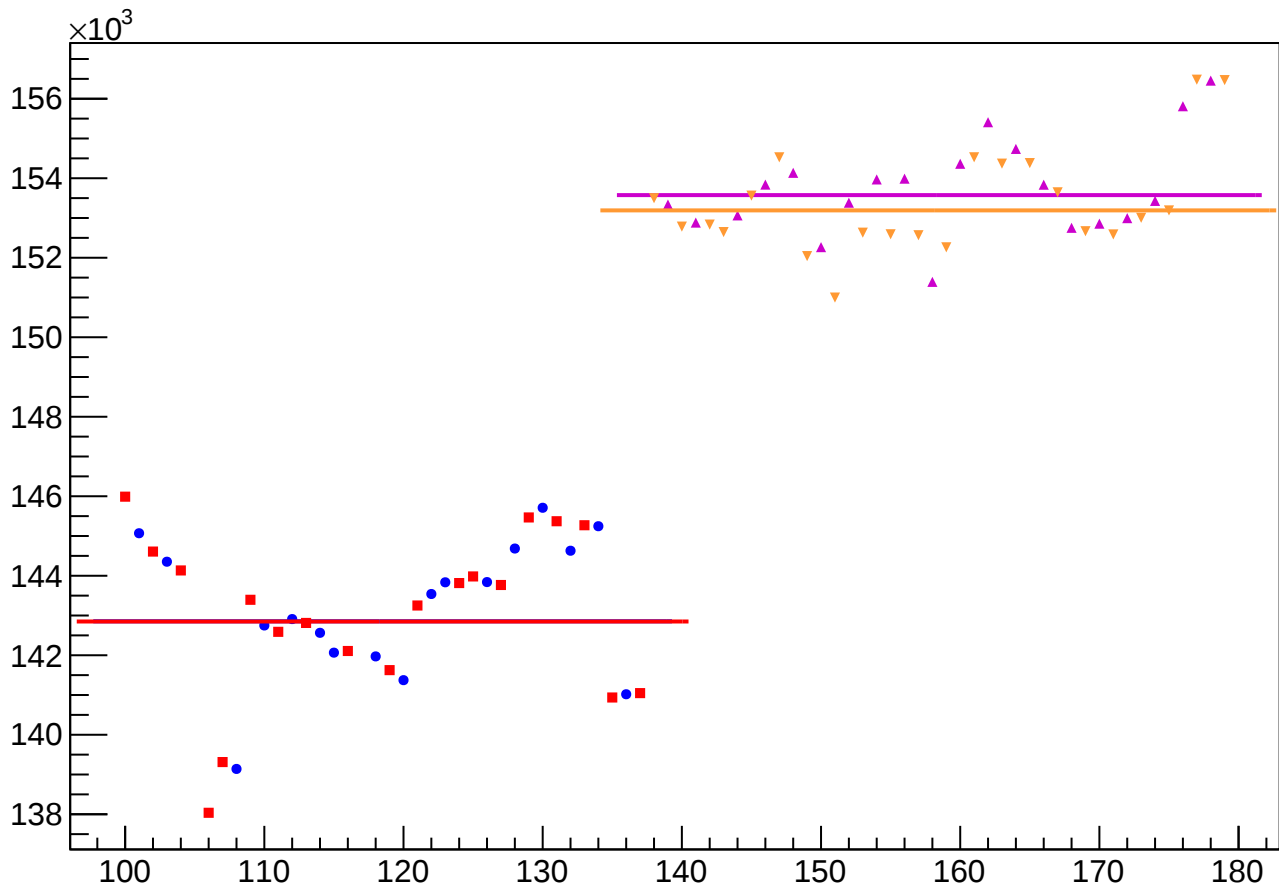
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 181.112 $\pm$ 0.028 χ^2 /NDF:2369923.2/36

Out: 178.681 $\pm$ 0.027 χ^2 /NDF:2755967.4/40

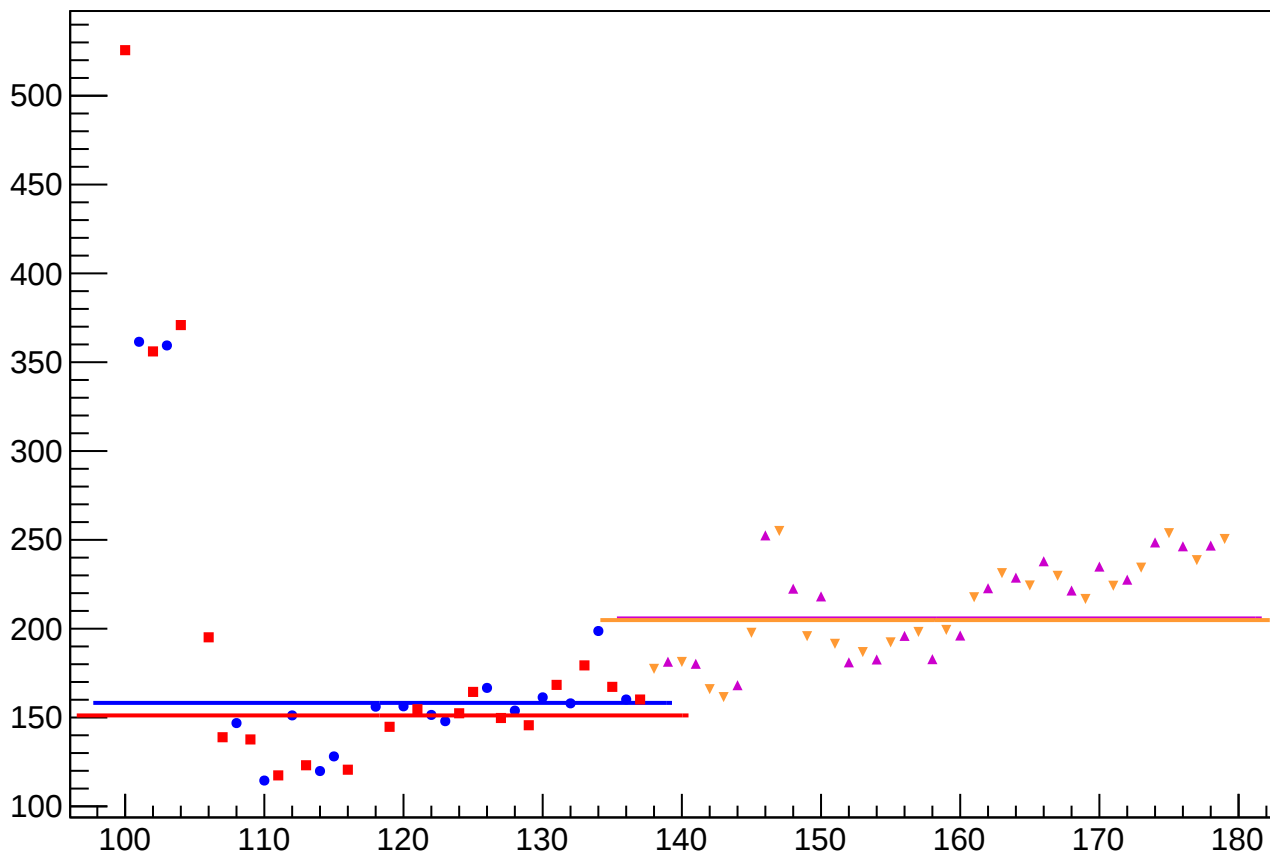
All: 179.845 $\pm$ 0.020 χ^2 /NDF: 5129724.8/77

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065	χ^2 /NDF: 740367386.5/16	Left: 153375.893 $\pm$ 0.037	χ^2 /NDF: 1043895796.5/4
Left Out: 153191.330 $\pm$ 0.051	χ^2 /NDF: 565660072.2/21	Right: 142851.648 $\pm$ 0.044	χ^2 /NDF: 1590437268.8/3
Right Out: 142849.362 $\pm$ 0.060	χ^2 /NDF: 850066807.5/18	In: 149239.862 $\pm$ 0.041	χ^2 /NDF: 17565282499.7/3
Left In: 153575.652 $\pm$ 0.053	χ^2 /NDF: 451194357.5/19	Out: 148865.241 $\pm$ 0.039	χ^2 /NDF: 18472073847.7/3
		All: 149042.939 $\pm$ 0.028	χ^2 /NDF: 360809843.7/1

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 204.841+/-0.036 χ^2/NDF : 530193.3/21

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: 205.288+/-0.026 χ^2/NDF : 1041518.5/41

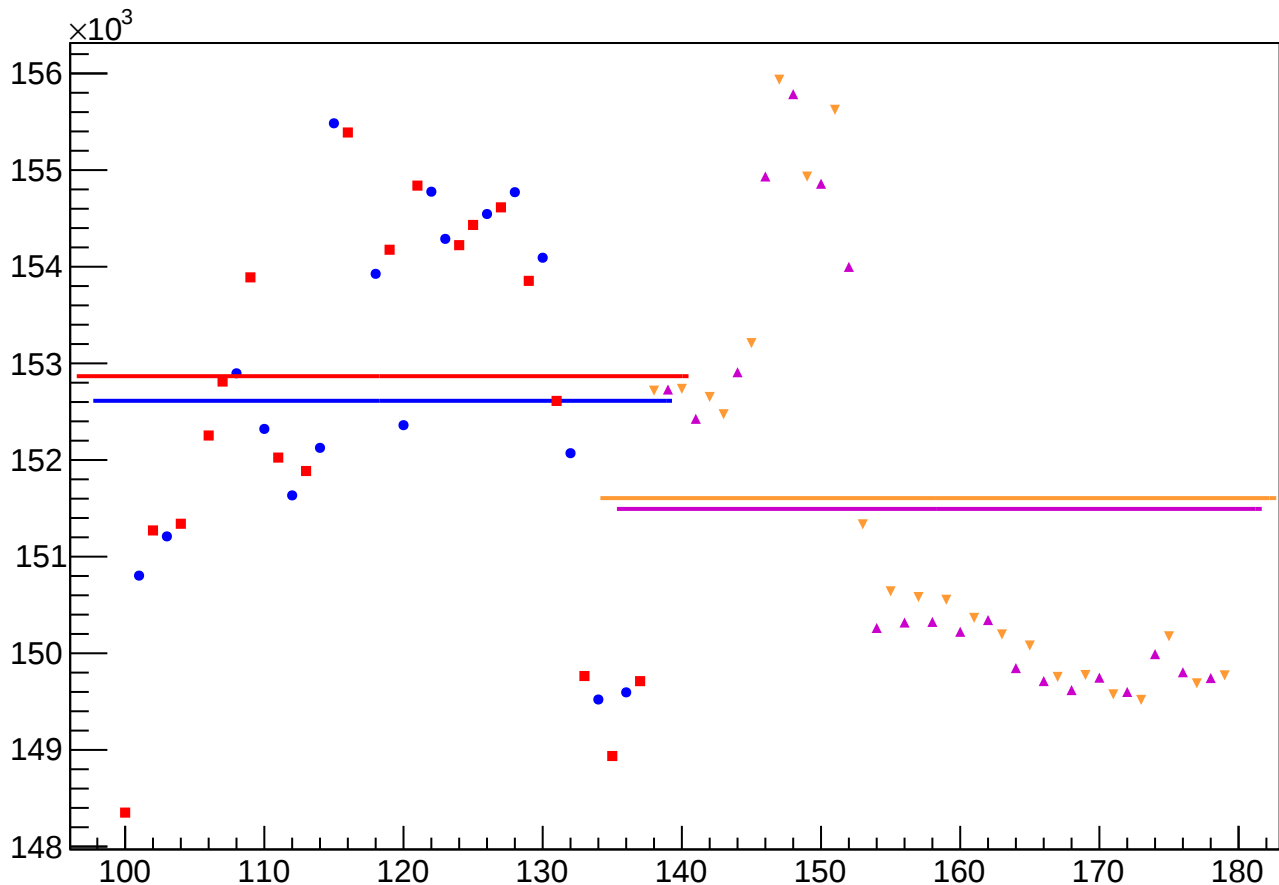
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 186.547+/-0.029 χ^2/NDF : 2038356.0/36

Out: 182.392+/-0.028 χ^2/NDF : 2452075.6/40

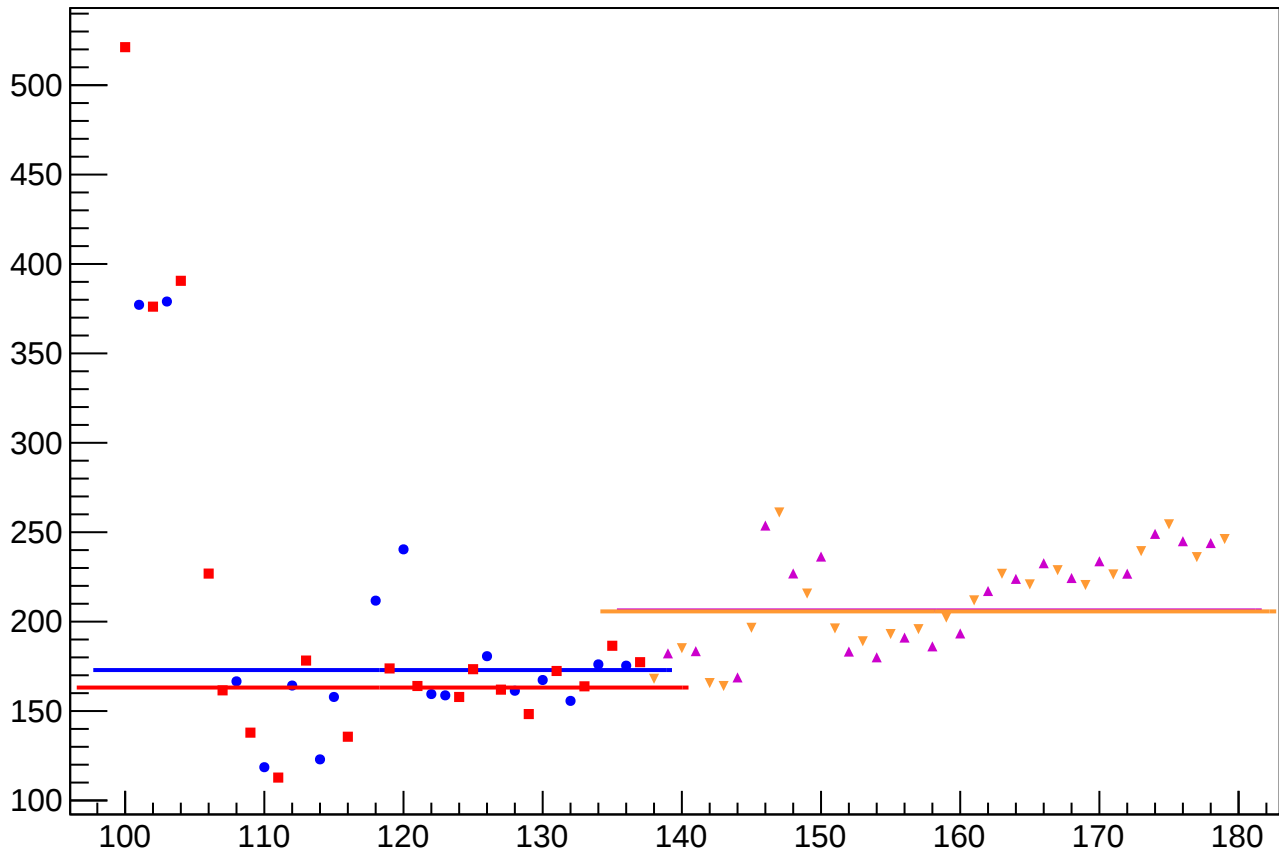
All: 184.363+/-0.020 χ^2/NDF : 4501164.5/77

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2 /NDF: 621416187.4/16	Left: 151551.995 $\pm$ 0.037	χ^2 /NDF: 2706961275.3/4
Left Out: 151605.653 $\pm$ 0.051	χ^2 /NDF: 1373366563.2/21	Right: 152750.957 $\pm$ 0.049	χ^2 /NDF: 1347263895.4/4
Right Out: 152867.453 $\pm$ 0.066	χ^2 /NDF: 719075986.4/18	In: 151888.887 $\pm$ 0.043	χ^2 /NDF: 2108171578.9/30
Left In: 151494.019 $\pm$ 0.053	χ^2 /NDF: 1331317056.5/19	Out: 152078.730 $\pm$ 0.041	χ^2 /NDF: 2319421122.5/4
		All: 151989.112 $\pm$ 0.029	χ^2 /NDF: 443794214

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921 ± 0.051 $\chi^2/\text{NDF}: 941954.0/16$

Left Out: 205.723 ± 0.036 $\chi^2/\text{NDF}: 539855.1/21$

Right Out: 163.138 ± 0.047 $\chi^2/\text{NDF}: 1033751.2/18$

Left In: 206.279 ± 0.038 $\chi^2/\text{NDF}: 510453.6/19$

Left: 205.990 ± 0.026 $\chi^2/\text{NDF}: 1050421.9/41$

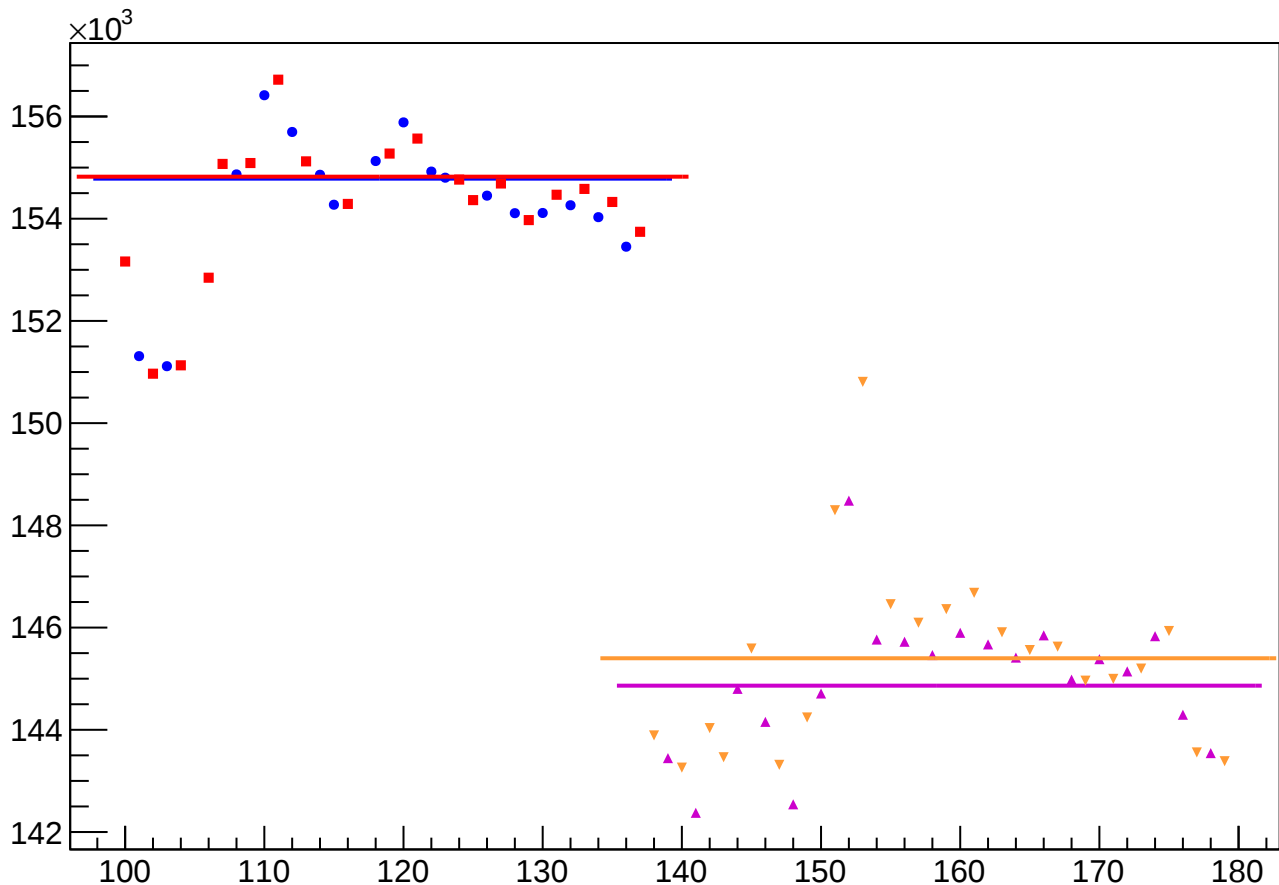
Right: 167.610 ± 0.034 $\chi^2/\text{NDF}: 1995658.5/35$

In: 194.503 ± 0.030 $\chi^2/\text{NDF}: 1728899.1/36$

Out: 189.757 ± 0.029 $\chi^2/\text{NDF}: 2090665.0/40$

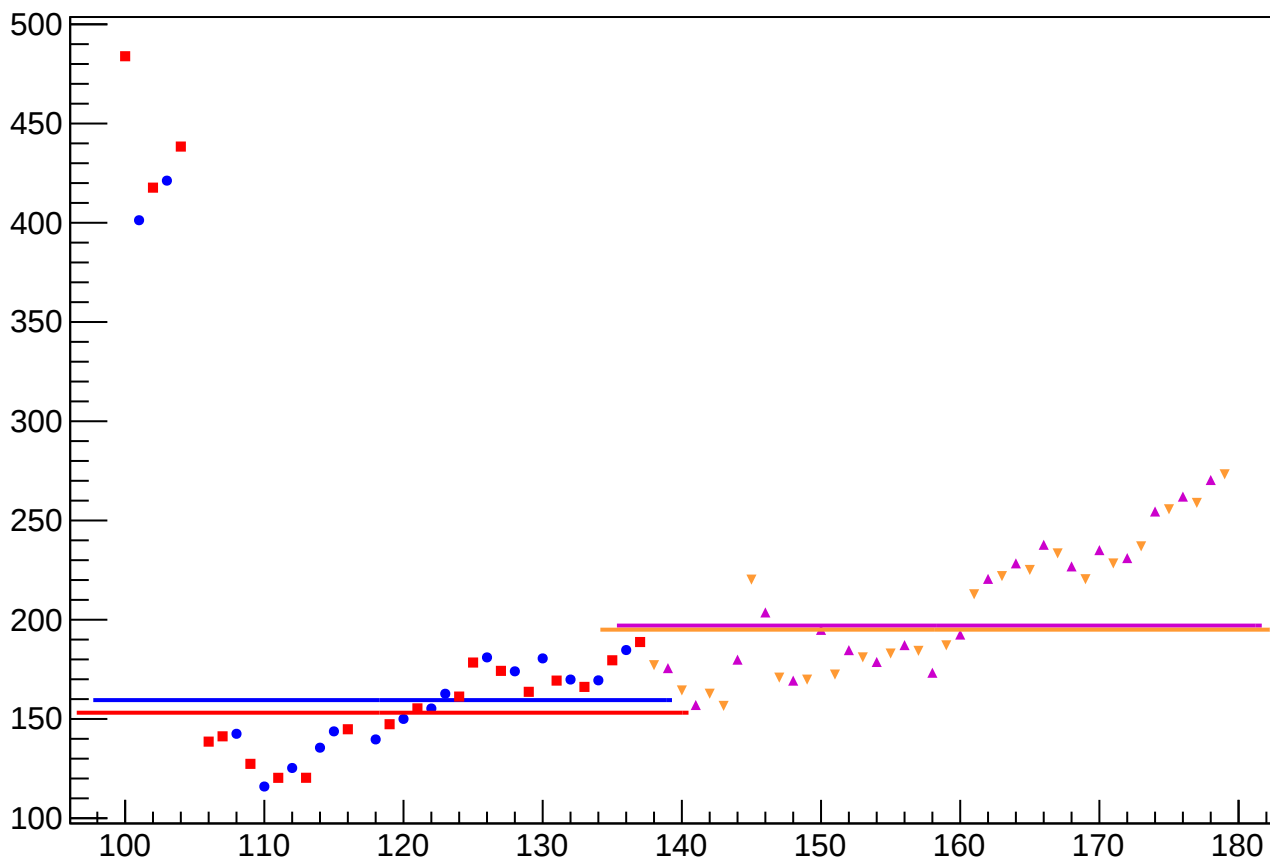
All: 191.998 ± 0.021 $\chi^2/\text{NDF}: 3832503.8/77$

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145143.533 $\pm$ 0.035	χ^2 /NDF: 2498861116.0/4
Left Out: 145399.616 $\pm$ 0.049	χ^2 /NDF: 1581173803.3/21	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: 149080.513 $\pm$ 0.038	χ^2 /NDF: 16467821440.2
		All: 148860.690 $\pm$ 0.028	χ^2 /NDF: 319852530

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504 $\pm$ 0.046 χ^2/NDF : 1131844.5/16

Left Out: 194.994 $\pm$ 0.034 χ^2/NDF : 830312.1/21

Right Out: 153.153 $\pm$ 0.043 χ^2/NDF : 1173739.7/18

Left In: 197.047 $\pm$ 0.036 χ^2/NDF : 701567.6/19

Left: 195.974 $\pm$ 0.025 χ^2/NDF : 1533574.7/41

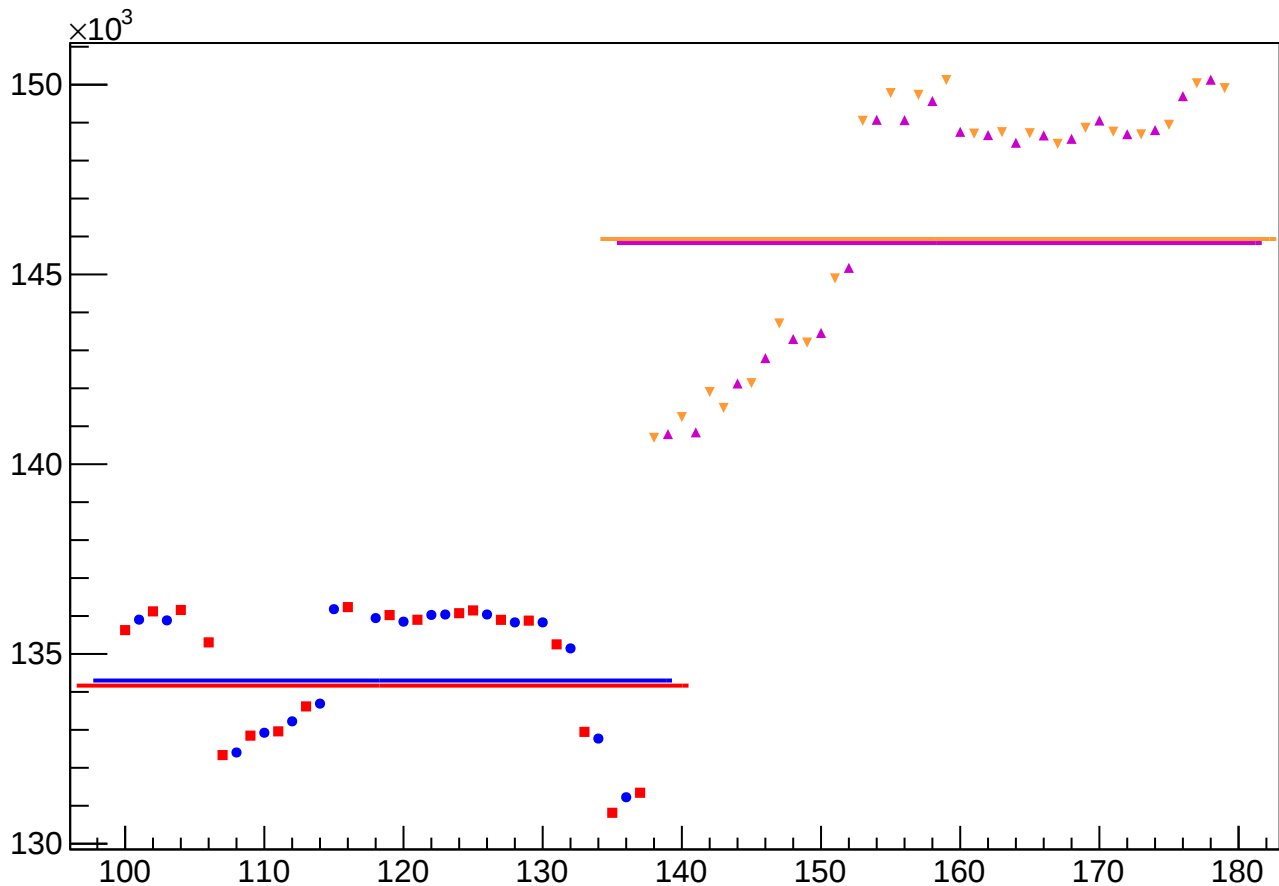
Right: 156.104 $\pm$ 0.032 χ^2/NDF : 2315690.5/35

In: 182.848 $\pm$ 0.028 χ^2/NDF : 2243633.5/36

Out: 178.649 $\pm$ 0.027 χ^2/NDF : 2579520.1/40

All: 180.634 $\pm$ 0.020 χ^2/NDF : 4834664.1/77

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025 $\pm$ 0.050

χ^2/NDF : 1149581803.2/16

Left Out: 145933.566 $\pm$ 0.050

χ^2/NDF : 5107428921.1/21

Right Out: 134165.615 $\pm$ 0.047

χ^2/NDF : 1211471052.4/18

Left In: 145828.298 $\pm$ 0.052

χ^2/NDF : 4310937046.7/19

Left: 145883.411 $\pm$ 0.036

χ^2/NDF : 9420516288.8/16

Right: 134228.768 $\pm$ 0.035

χ^2/NDF : 2364832007.2/16

In: 139883.805 $\pm$ 0.036

χ^2/NDF : 30860195274.8/3

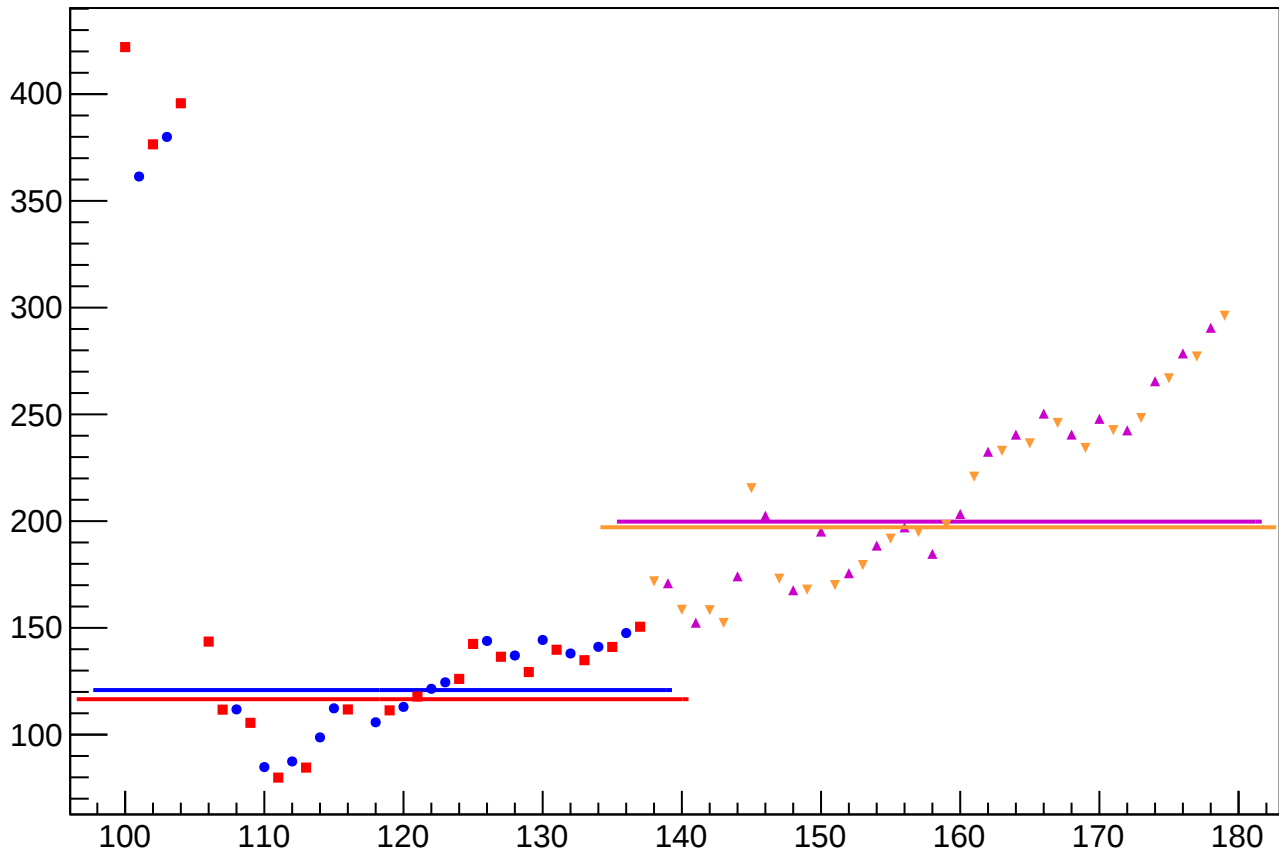
Out: 139787.778 $\pm$ 0.034

χ^2/NDF : 35774689644.4/3

All: 139833.201 $\pm$ 0.025

χ^2/NDF : 666386033.3/16

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 +/- 0.036 χ^2/NDF : 1463728.4/16

Left Out: 197.129 +/- 0.035 χ^2/NDF : 1154619.7/21

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: 198.383 +/- 0.025 χ^2/NDF : 2121119.6/41

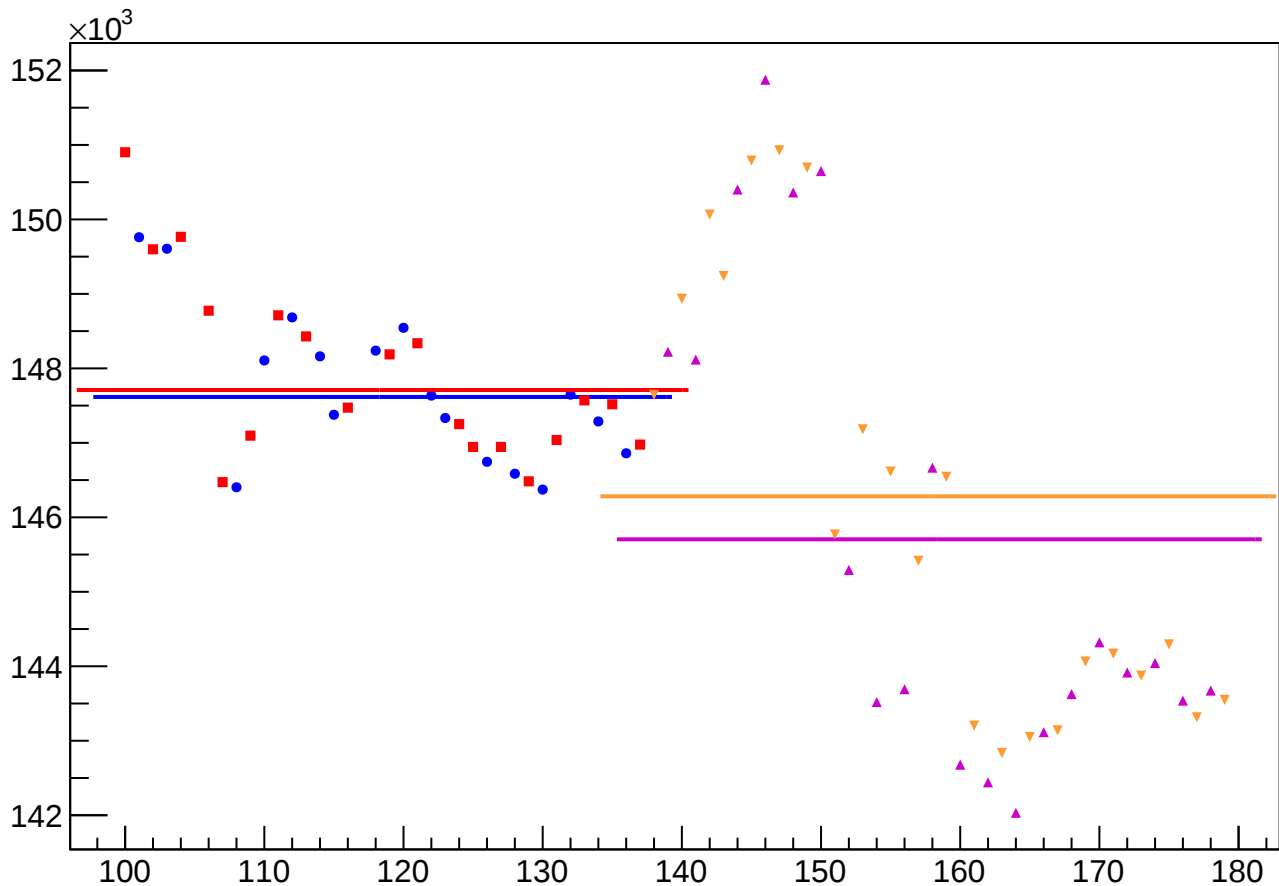
Right: 118.605 +/- 0.024 χ^2/NDF : 3012723.0/35

In: 159.082 +/- 0.026 χ^2/NDF : 4806276.1/36

Out: 155.070 +/- 0.024 χ^2/NDF : 5455034.2/40

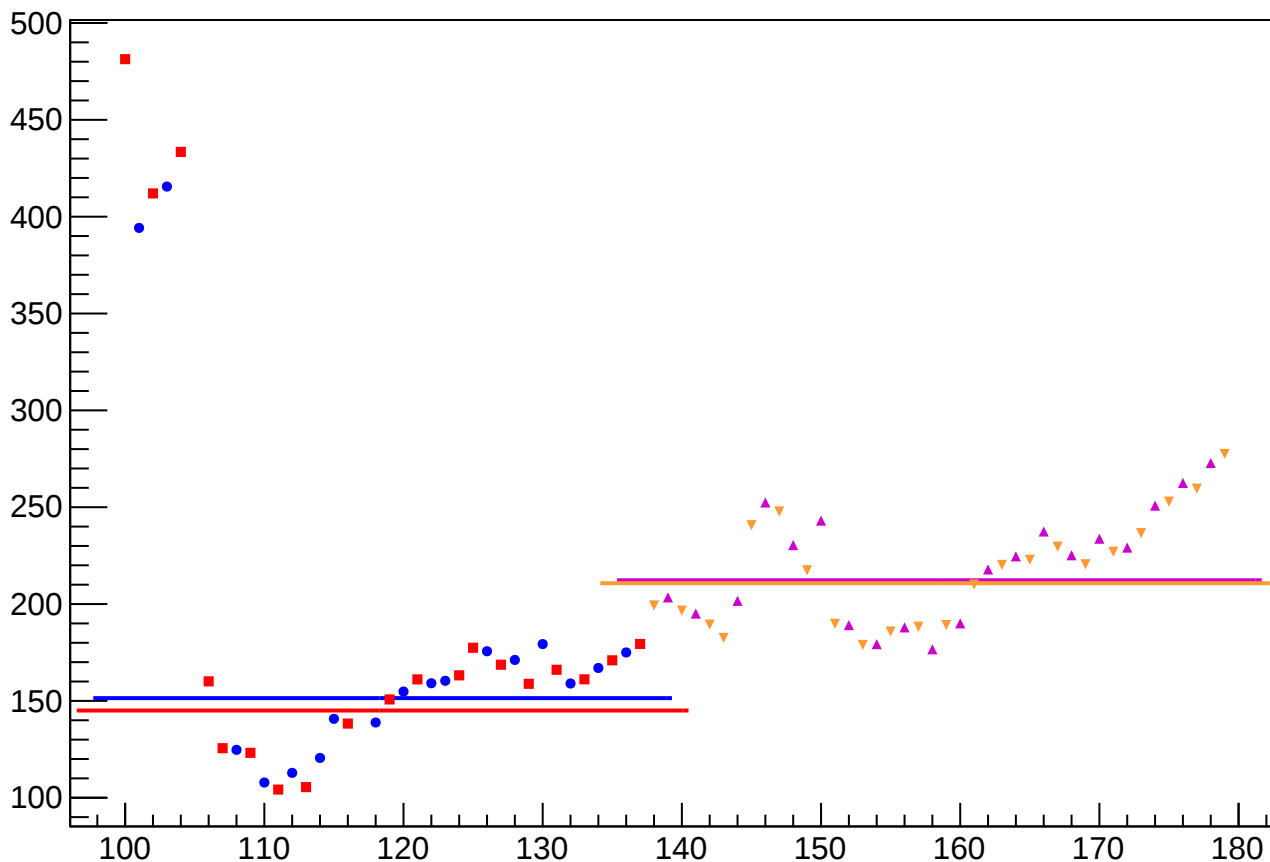
All: 156.968 +/- 0.018 χ^2/NDF : 10274290.7/77

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150 $\pm$ 0.062	χ^2 /NDF: 199263428.7/16	Left: 146005.558 $\pm$ 0.038	χ^2 /NDF: 5497535339.2/4
Left Out: 146281.681 $\pm$ 0.052	χ^2 /NDF: 2497768800.6/21	Right: 147666.153 $\pm$ 0.043	χ^2 /NDF: 404368550.3/3
Right Out: 147709.723 $\pm$ 0.058	χ^2 /NDF: 203906685.9/18	In: 146535.216 $\pm$ 0.041	χ^2 /NDF: 3670375568.4/36
Left In: 145704.703 $\pm$ 0.055	χ^2 /NDF: 2941898421.0/19	Out: 146920.434 $\pm$ 0.039	χ^2 /NDF: 3032999071.6/4
		All: 146738.281 $\pm$ 0.028	χ^2 /NDF: 67494881.0/1

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424 $\pm$ 0.044 χ^2 /NDF: 1257843.0/16

Left Out: 210.753 $\pm$ 0.037 χ^2 /NDF: 491155.0/21

Right Out: 145.039 $\pm$ 0.041 χ^2 /NDF: 1375972.0/18

Left In: 212.273 $\pm$ 0.039 χ^2 /NDF: 499819.2/19

Left: 211.480 $\pm$ 0.027 χ^2 /NDF: 991776.8/41

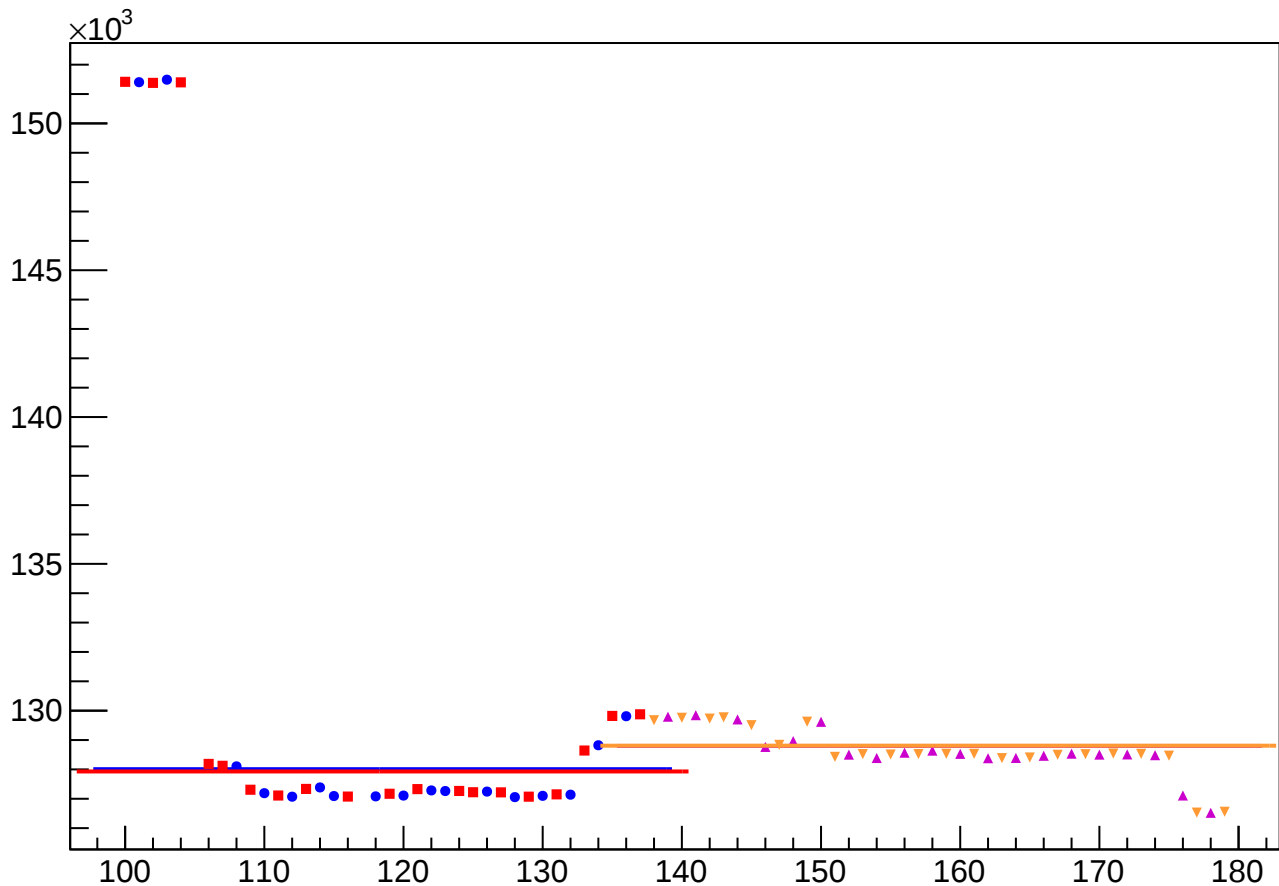
Right: 148.012 $\pm$ 0.030 χ^2 /NDF: 2644973.7/35

In: 185.834 $\pm$ 0.029 χ^2 /NDF: 2830264.4/36

Out: 181.360 $\pm$ 0.028 χ^2 /NDF: 3270309.1/40

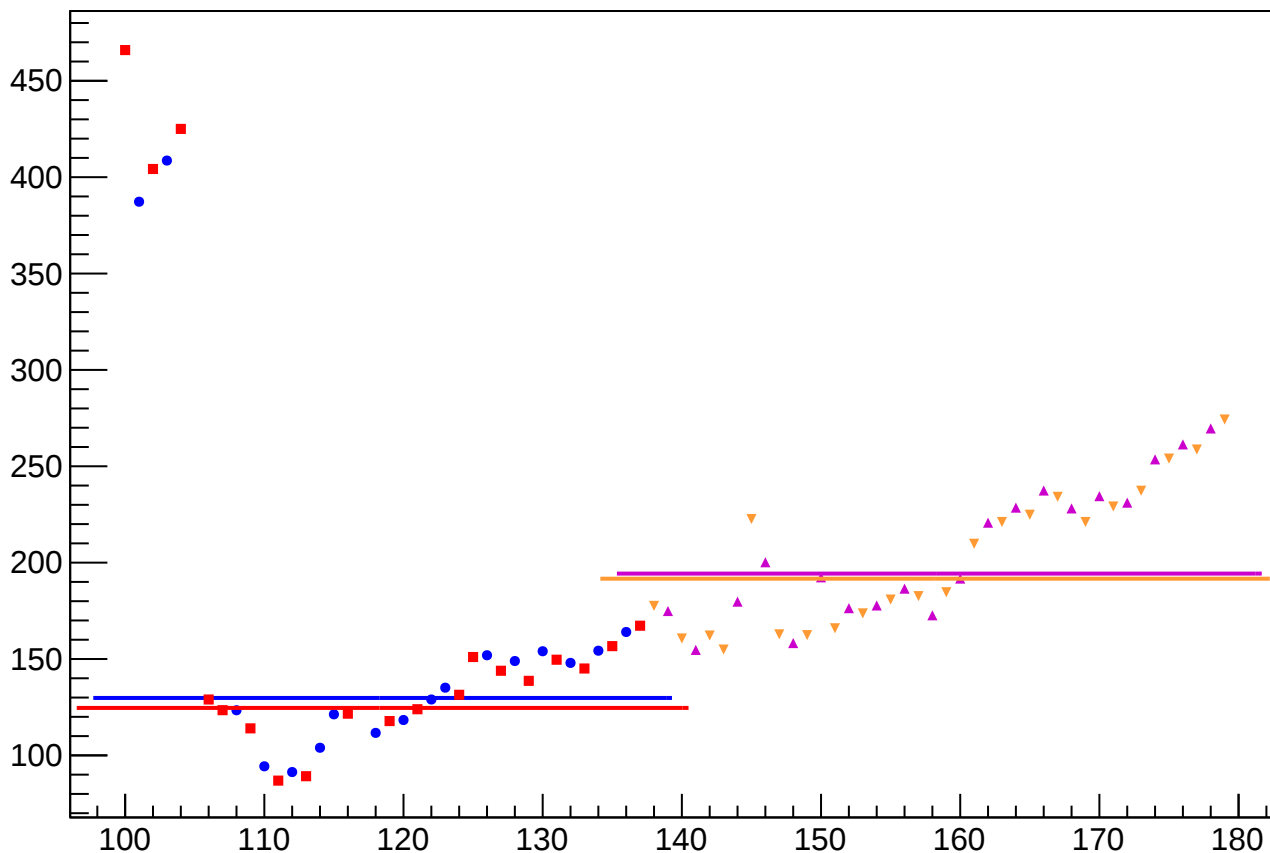
All: 183.476 $\pm$ 0.020 χ^2 /NDF: 6113016.2/77

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128807.249 $\pm$ 0.048 χ^2 /NDF: 248216361.6/21
 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: 128803.062 $\pm$ 0.035 χ^2 /NDF: 453061537.0/41
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/41
 In: 128431.403 $\pm$ 0.037 χ^2 /NDF: 4639127682.5/30
 Out: 128390.136 $\pm$ 0.035 χ^2 /NDF: 4175348138.3/41
 All: 128409.547 $\pm$ 0.025 χ^2 /NDF: 881513941.0/100

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 191.672 $\pm$ 0.034 χ^2 /NDF: 950503.7/21

Right Out: 124.625 $\pm$ 0.036 χ^2 /NDF: 1531827.4/18

Left In: 194.326 $\pm$ 0.036 χ^2 /NDF: 783319.4/19

Left: 192.935 $\pm$ 0.025 χ^2 /NDF: 1736735.3/41

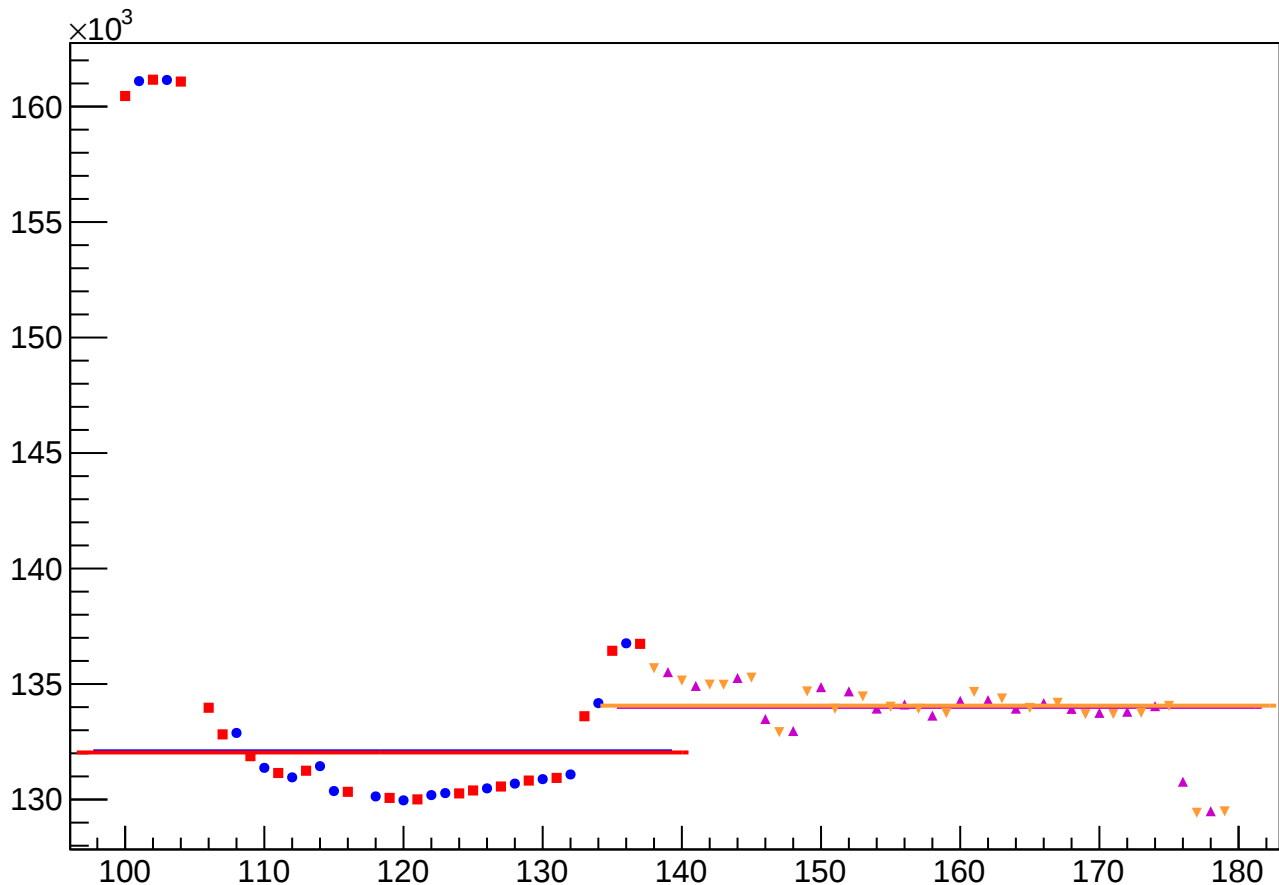
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 164.386 $\pm$ 0.026 χ^2 /NDF: 3792530.7/36

Out: 159.787 $\pm$ 0.025 χ^2 /NDF: 4339964.2/40

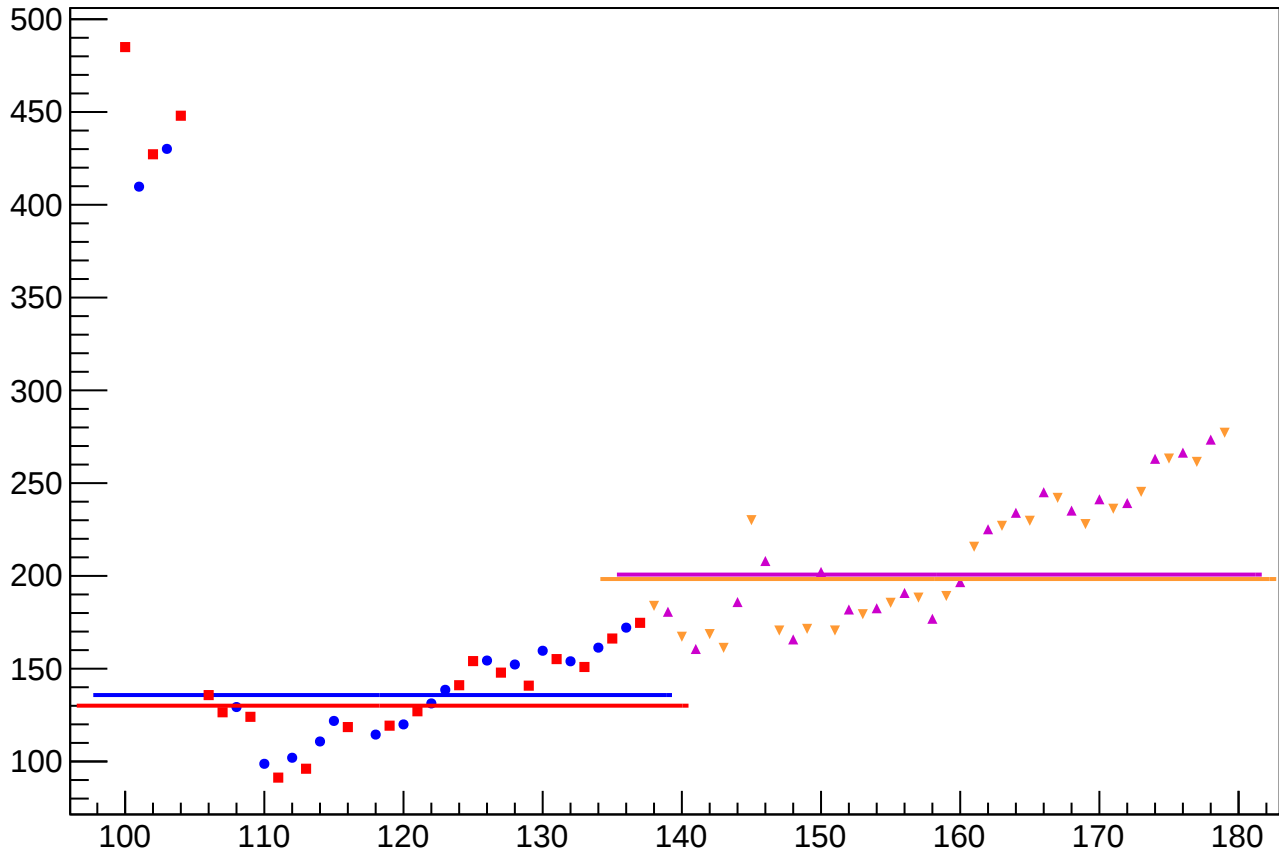
All: 161.950 $\pm$ 0.018 χ^2 /NDF: 8148972.0/77

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794 $\pm$ 0.057 χ^2 /NDF: 6733230928.7/16
 Left Out: 134063.737 $\pm$ 0.050 χ^2 /NDF: 665850203.6/21
 Right Out: 132037.539 $\pm$ 0.053 χ^2 /NDF: 5882115872.9/18
 Left In: 134009.357 $\pm$ 0.052 χ^2 /NDF: 505154119.1/19
 Left: 134037.824 $\pm$ 0.036 χ^2 /NDF: 1171577147.3/4
 Right: 132060.364 $\pm$ 0.038 χ^2 /NDF: 12615754245.0
 In: 133128.376 $\pm$ 0.038 χ^2 /NDF: 7865128528.9/30
 Out: 133108.754 $\pm$ 0.036 χ^2 /NDF: 7334559624.5/4
 All: 133117.985 $\pm$ 0.026 χ^2 /NDF: 151998274

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2/NDF : 1441904.9/16

Left Out: 198.315 $\pm$ 0.035 χ^2/NDF : 887900.3/21

Right Out: 130.070 $\pm$ 0.037 χ^2/NDF : 1503997.6/18

Left In: 200.710 $\pm$ 0.037 χ^2/NDF : 749576.8/19

Left: 199.457 $\pm$ 0.025 χ^2/NDF : 1639699.2/41

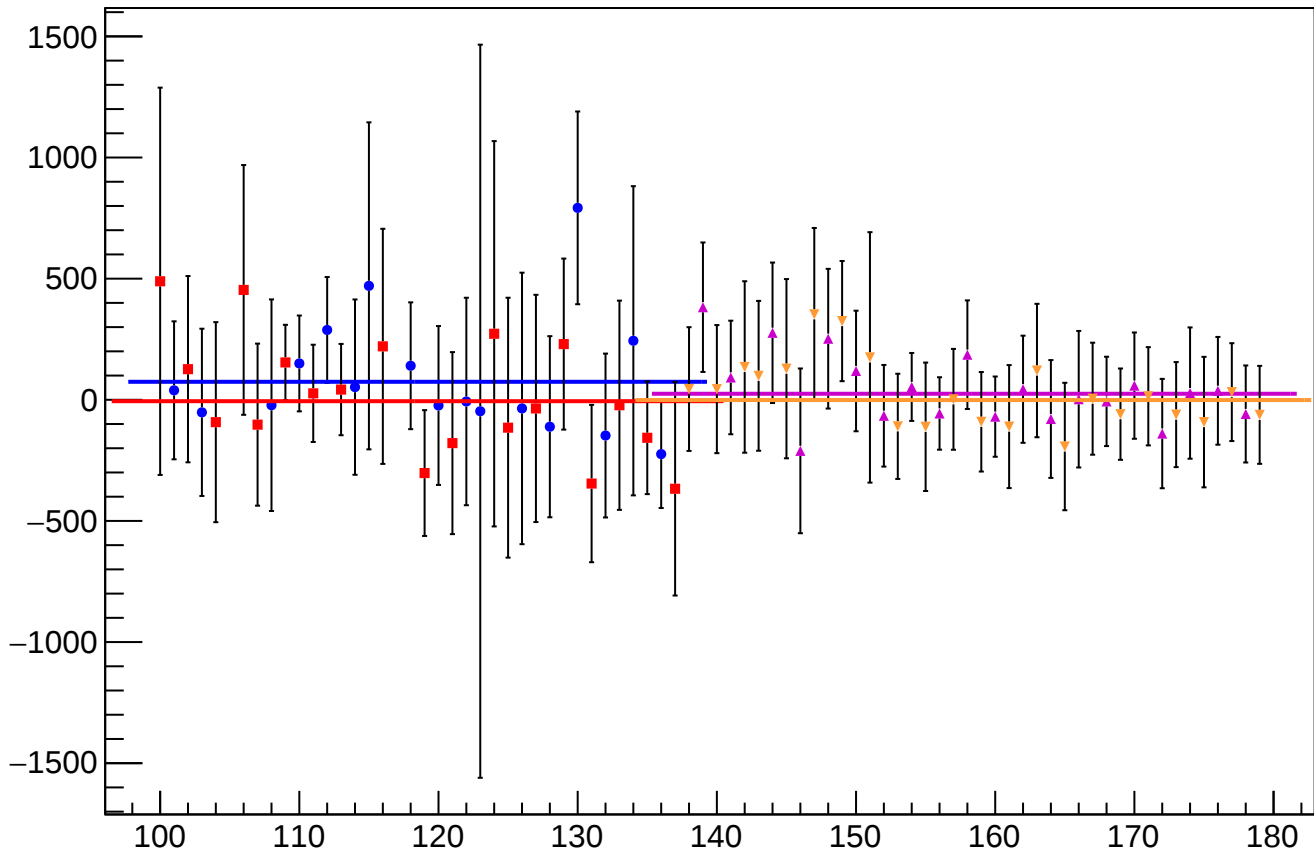
Right: 132.723 $\pm$ 0.027 χ^2/NDF : 2956918.0/35

In: 170.965 $\pm$ 0.027 χ^2/NDF : 3620496.3/36

Out: 166.150 $\pm$ 0.026 χ^2/NDF : 4176616.7/40

All: 168.415 $\pm$ 0.019 χ^2/NDF : 7813882.7/77

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: -1.103+/-52.423 χ^2/NDF : 5.2/21

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: 13.060+/-35.399 χ^2/NDF : 11.5/41

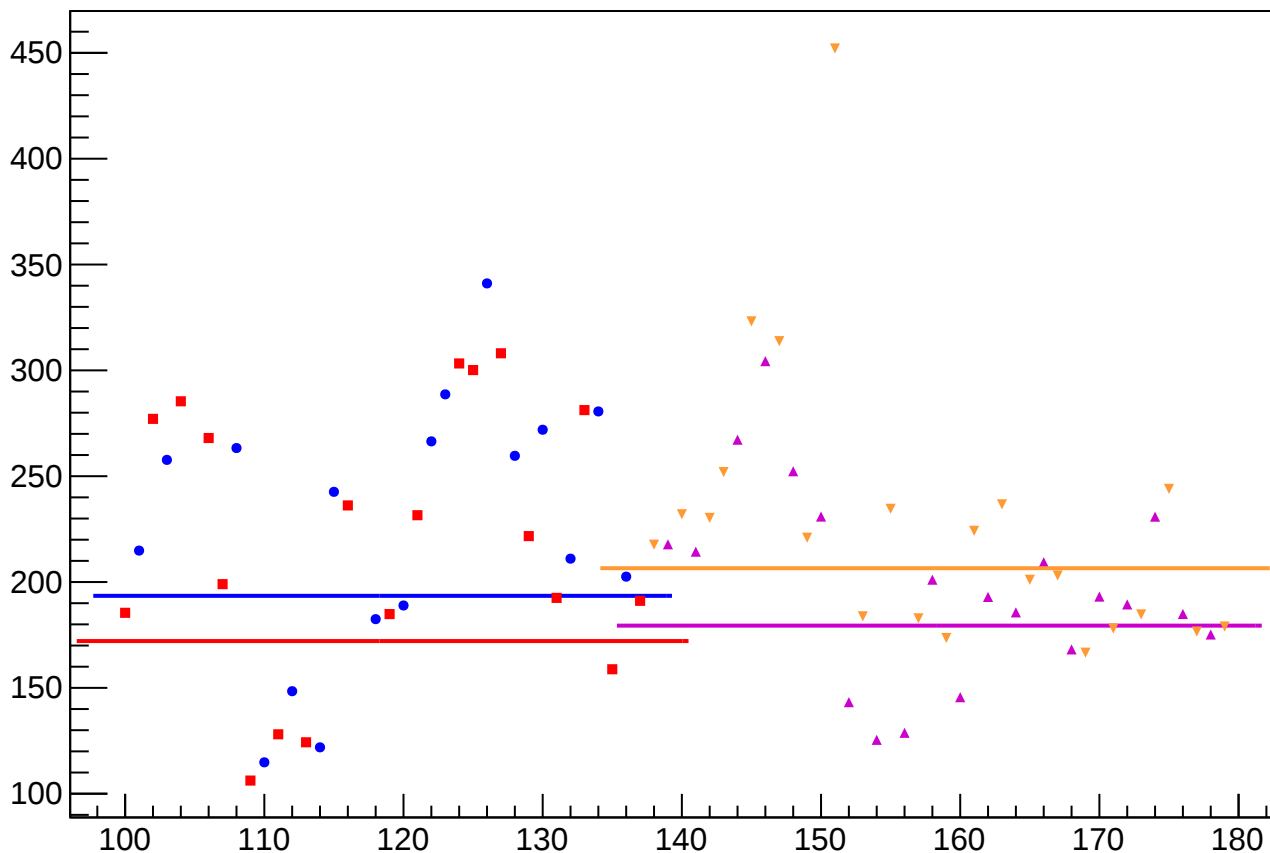
Right: 29.490+/-52.426 χ^2/NDF : 15.4/35

In: 38.233+/-41.020 χ^2/NDF : 14.2/36

Out: -2.767+/-41.975 χ^2/NDF : 12.3/40

All: 18.205+/-29.337 χ^2/NDF : 27.0/77

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 ± 0.056 $\chi^2/\text{NDF}: 1017195.7/16$

Left Out: 206.528 ± 0.037 $\chi^2/\text{NDF}: 1338619.7/21$

Right Out: 172.122 ± 0.050 $\chi^2/\text{NDF}: 1579840.2/18$

Left In: 179.405 ± 0.034 $\chi^2/\text{NDF}: 1565134.2/19$

Left: 191.772 ± 0.025 $\chi^2/\text{NDF}: 3195017.3/41$

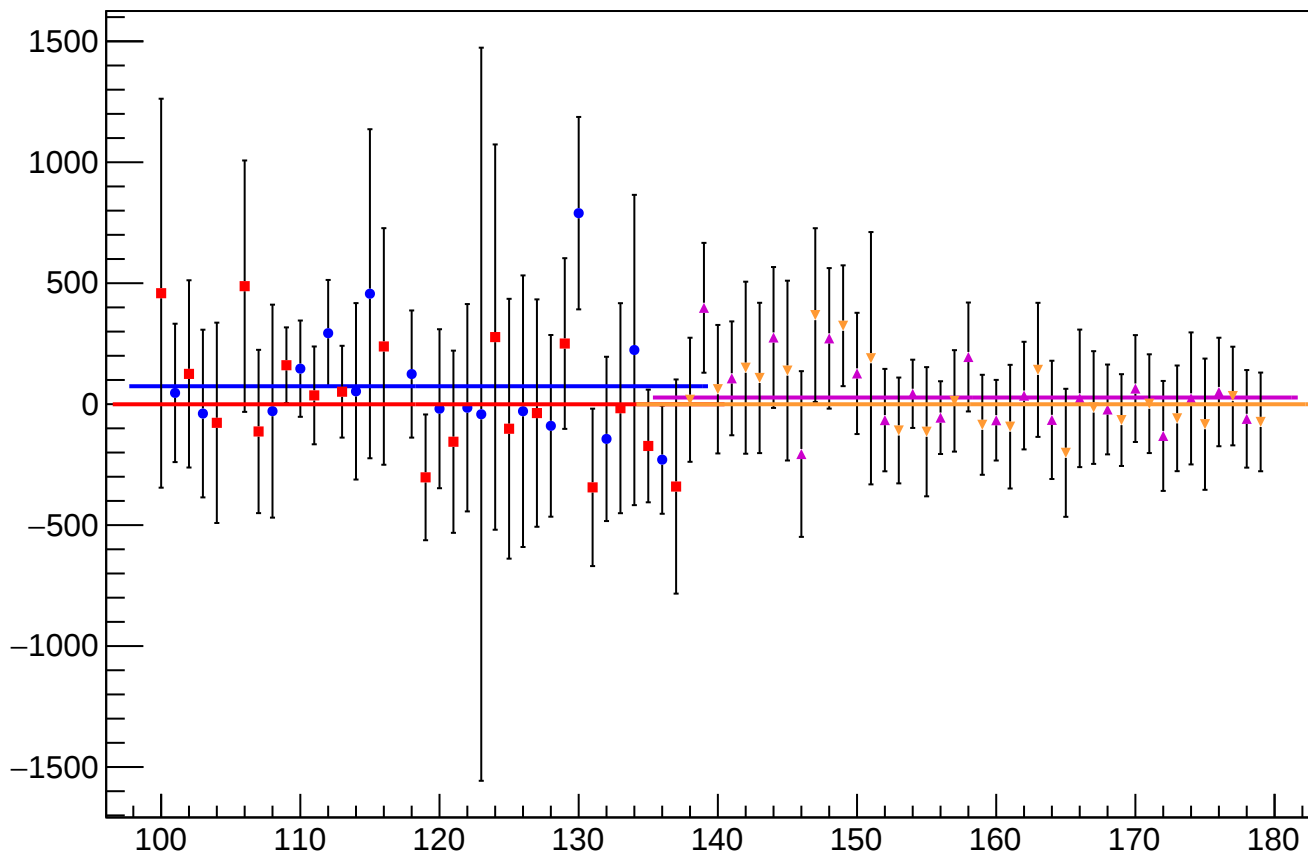
Right: 181.527 ± 0.037 $\chi^2/\text{NDF}: 2678891.2/35$

In: 183.200 ± 0.029 $\chi^2/\text{NDF}: 2628736.0/36$

Out: 194.181 ± 0.030 $\chi^2/\text{NDF}: 3227625.8/40$

All: 188.564 ± 0.021 $\chi^2/\text{NDF}: 5926370.9/77$

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: -0.372 $\pm$ 52.790 χ^2 /NDF:5.4/21

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: 14.782 $\pm$ 35.637 χ^2 /NDF: 11.9/41

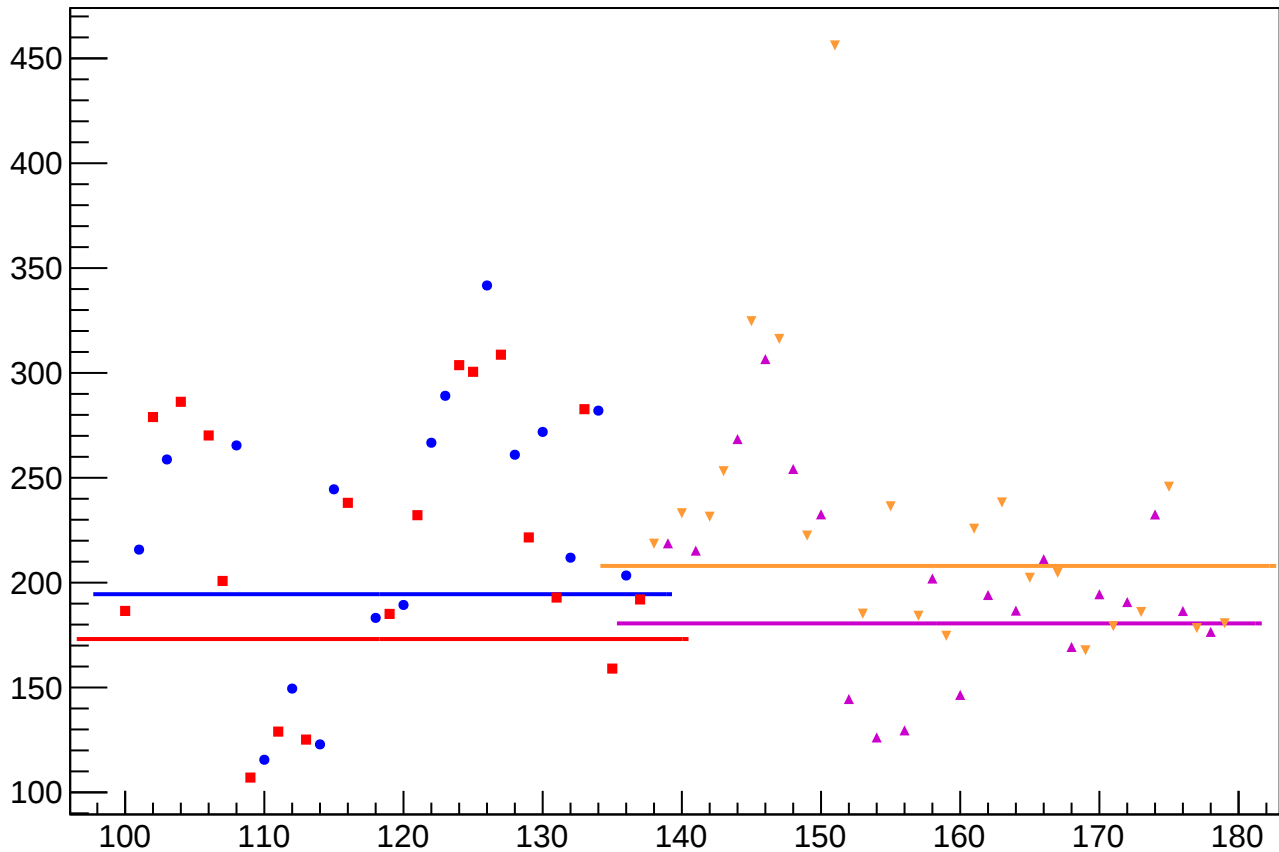
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 40.065 $\pm$ 41.268 χ^2 /NDF:14.2/36

Out: -0.419 $\pm$ 42.243 χ^2 /NDF:12.7/40

All: 20.296 $\pm$ 29.519 χ^2 /NDF: 27.4/77

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 ± 0.056 χ^2/NDF : 1008514.7/16

Left Out: 207.980 ± 0.037 χ^2/NDF : 1334288.5/21

Right Out: 173.111 ± 0.050 χ^2/NDF : 1567374.3/18

Left In: 180.567 ± 0.034 χ^2/NDF : 1564511.9/19

Left: 193.059 ± 0.025 χ^2/NDF : 3192345.4/41

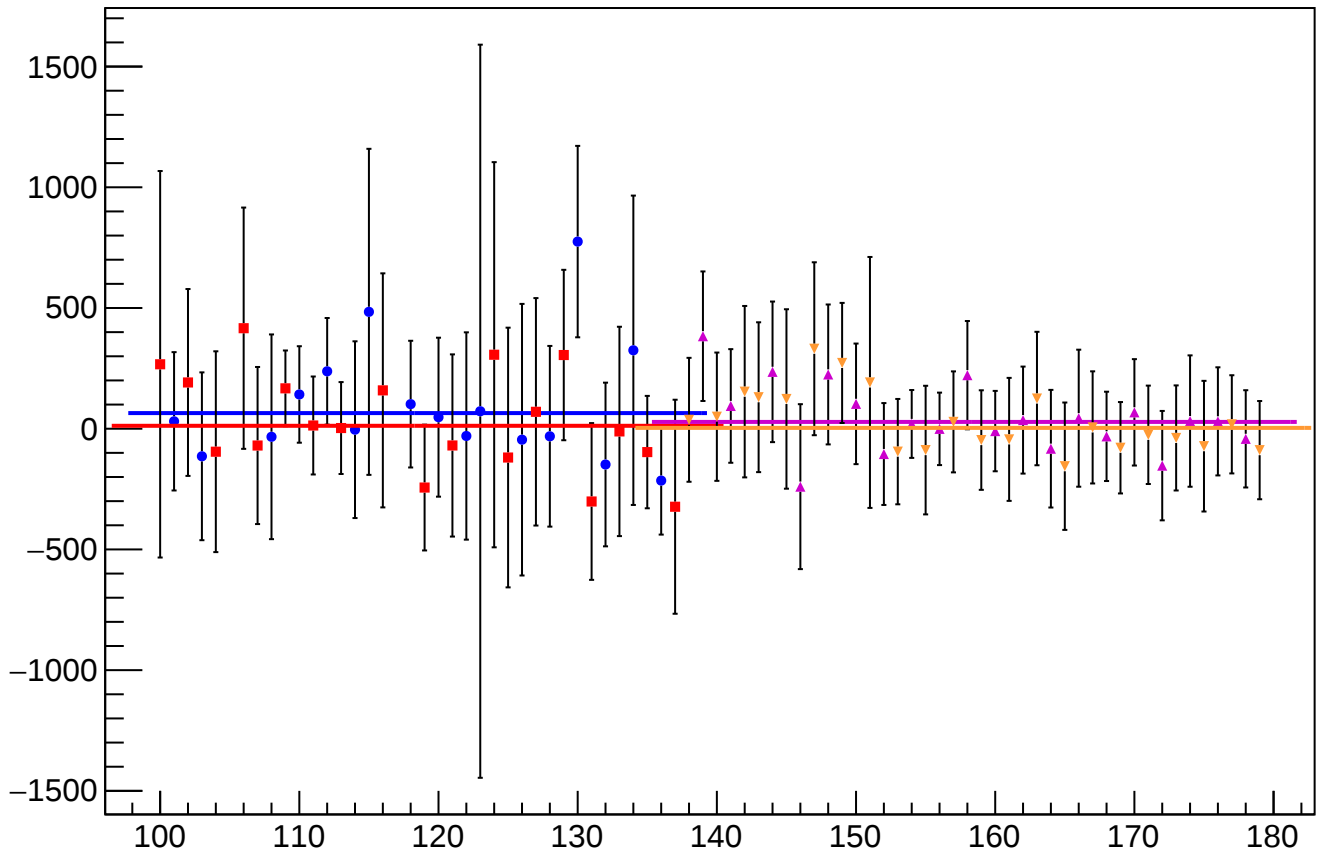
Right: 182.529 ± 0.037 χ^2/NDF : 2657073.5/35

In: 184.329 ± 0.029 χ^2/NDF : 2617952.5/36

Out: 195.439 ± 0.030 χ^2/NDF : 3215499.3/40

All: 189.754 ± 0.021 χ^2/NDF : 5904230.2/77

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 3.449+/-52.662 χ^2/NDF : 4.2/21

Right Out: 12.094+/-70.361 χ^2/NDF : 5.8/18

Left In: 28.138+/-48.183 χ^2/NDF : 5.8/19

Left: 16.888+/-35.549 χ^2/NDF : 10.1/41

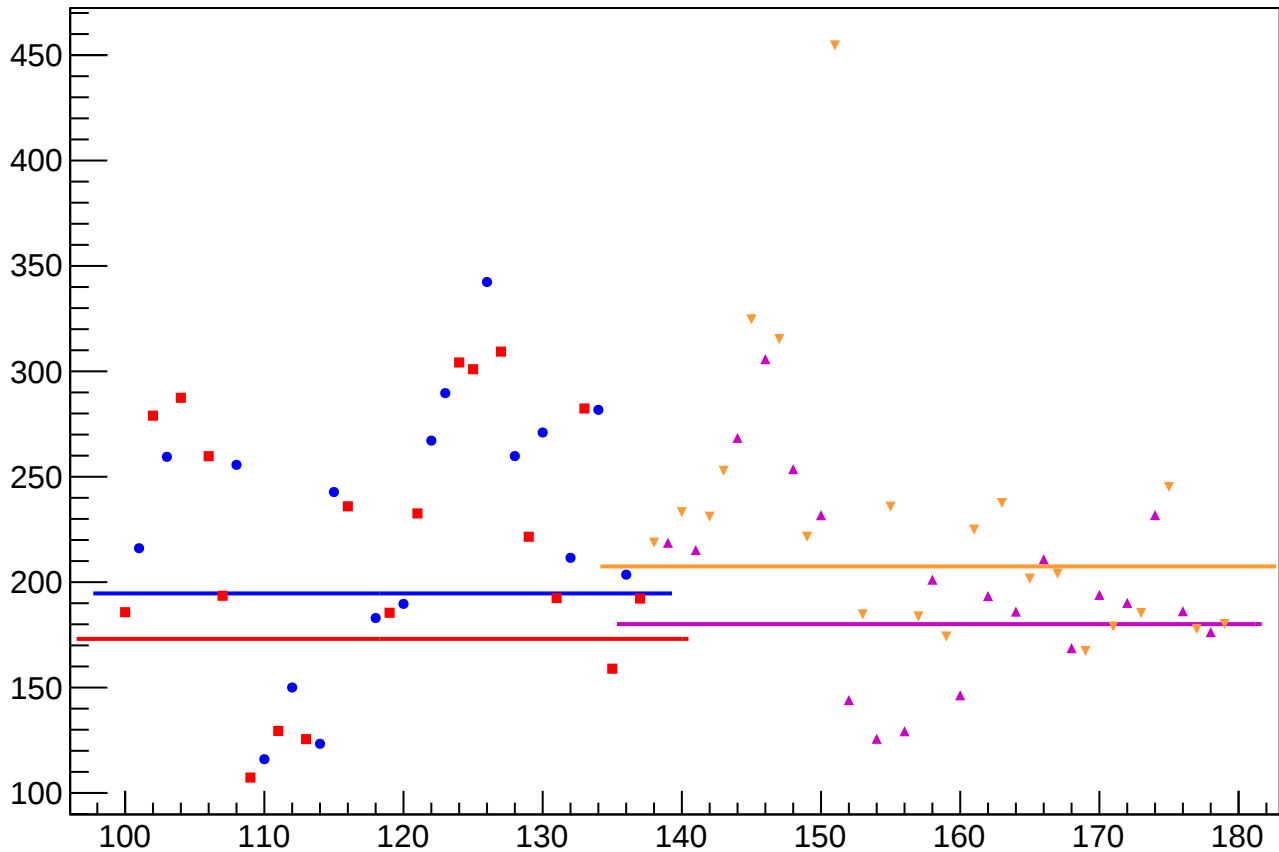
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 37.988+/-41.192 χ^2/NDF : 13.0/36

Out: 6.553+/-42.161 χ^2/NDF : 10.0/40

All: 22.635+/-29.464 χ^2/NDF : 23.3/77

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 207.468 $\pm$ 0.037 χ^2 /NDF:1336930.0/21

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: 192.574 $\pm$ 0.025 χ^2 /NDF: 3198766.9/41

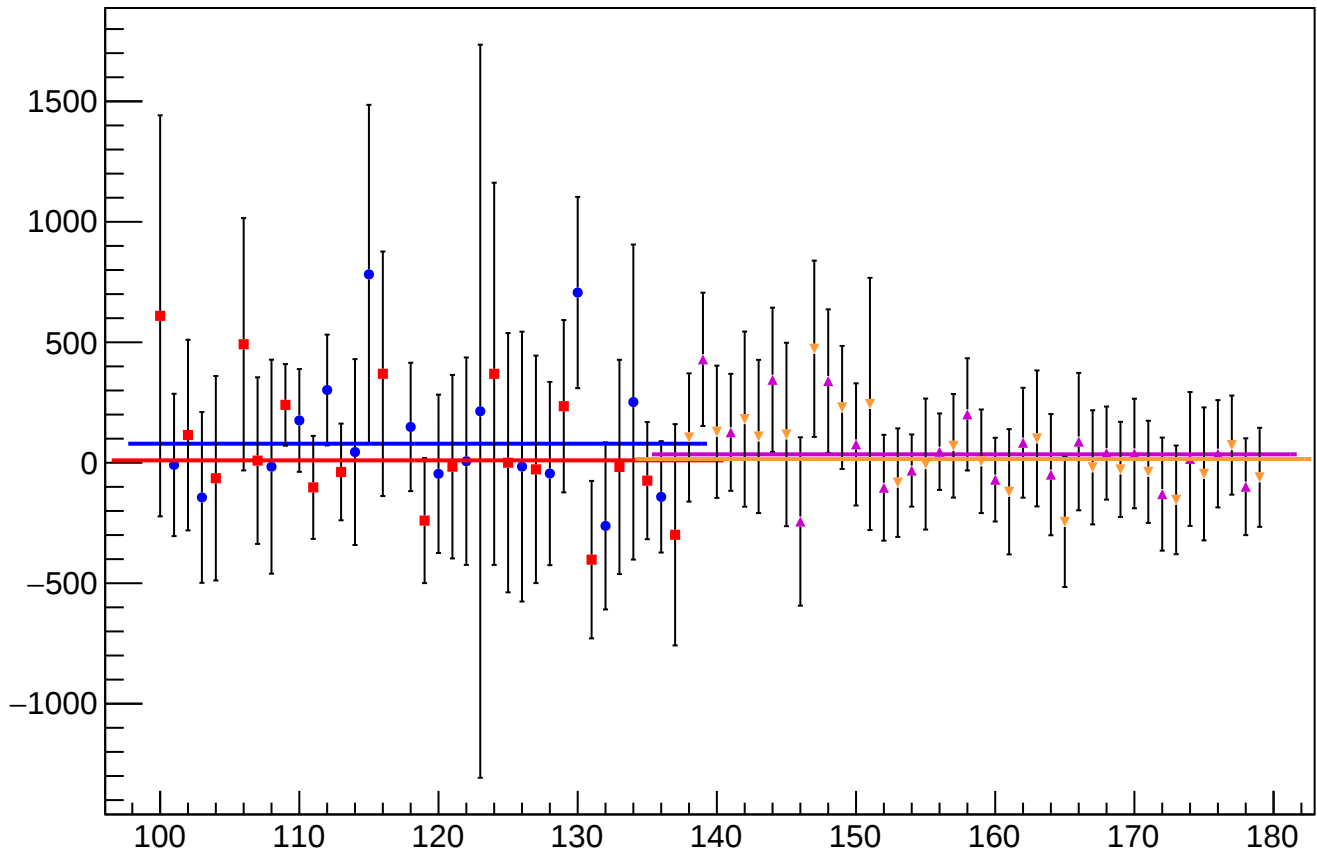
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 184.021 $\pm$ 0.029 χ^2 /NDF:2603793.5/36

Out: 195.124 $\pm$ 0.030 χ^2 /NDF:3187512.8/40

All: 189.443 $\pm$ 0.021 χ^2 /NDF: 5862278.7/77

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2 /NDF: 7.5/16

Left Out: 15.415 $\pm$ 54.100 χ^2 /NDF: 5.6/21

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: 26.022 $\pm$ 36.660 χ^2 /NDF: 13.3/41

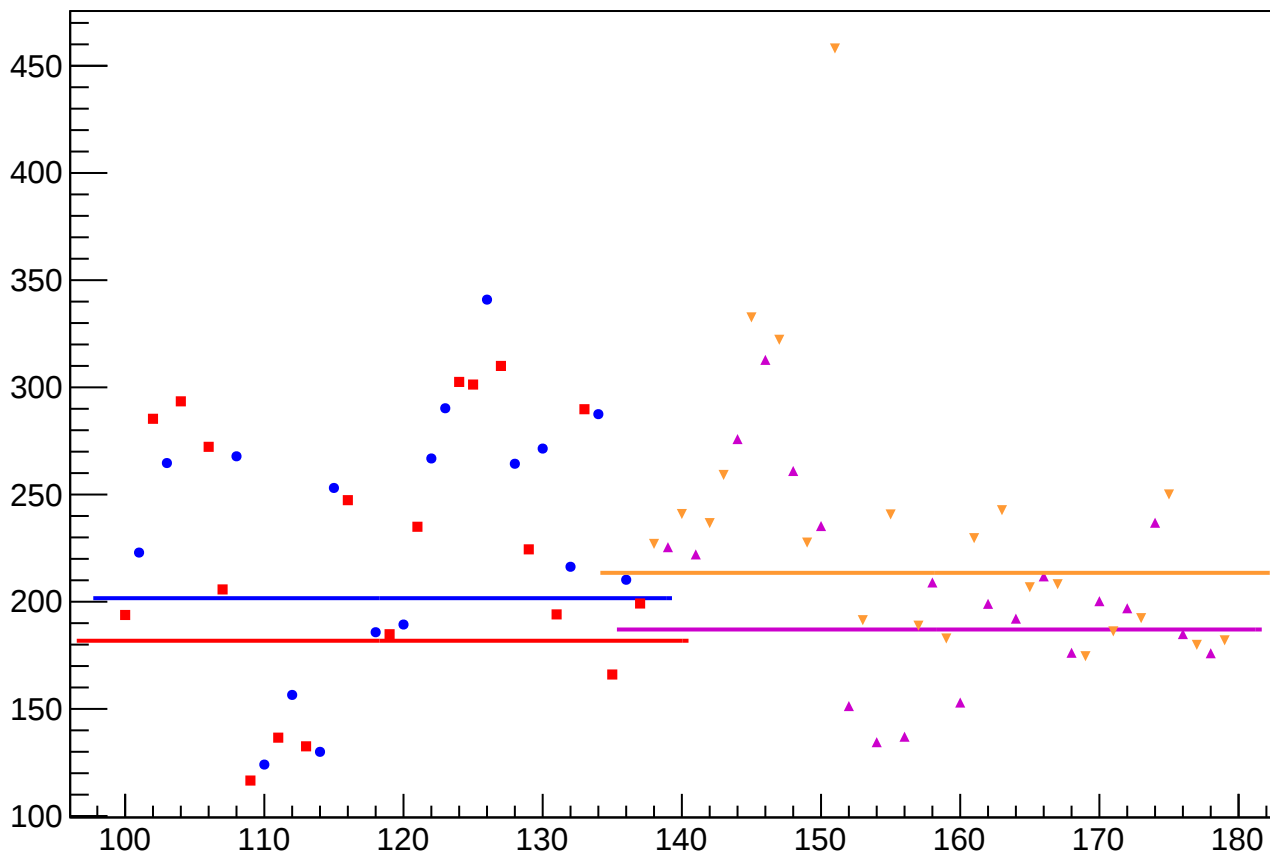
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 46.955 $\pm$ 42.579 χ^2 /NDF: 15.3/36

Out: 13.500 $\pm$ 43.530 χ^2 /NDF: 13.5/40

All: 30.597 $\pm$ 30.439 χ^2 /NDF: 29.1/77

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654+/-0.058 χ^2/NDF : 883179.7/16

Left Out: 213.478+/-0.038 χ^2/NDF : 1291598.2/21

Right Out: 181.797+/-0.052 χ^2/NDF : 1377449.9/18

Left In: 187.045+/-0.035 χ^2/NDF : 1412947.0/19

Left: 199.183+/-0.026 χ^2/NDF : 2962761.6/41

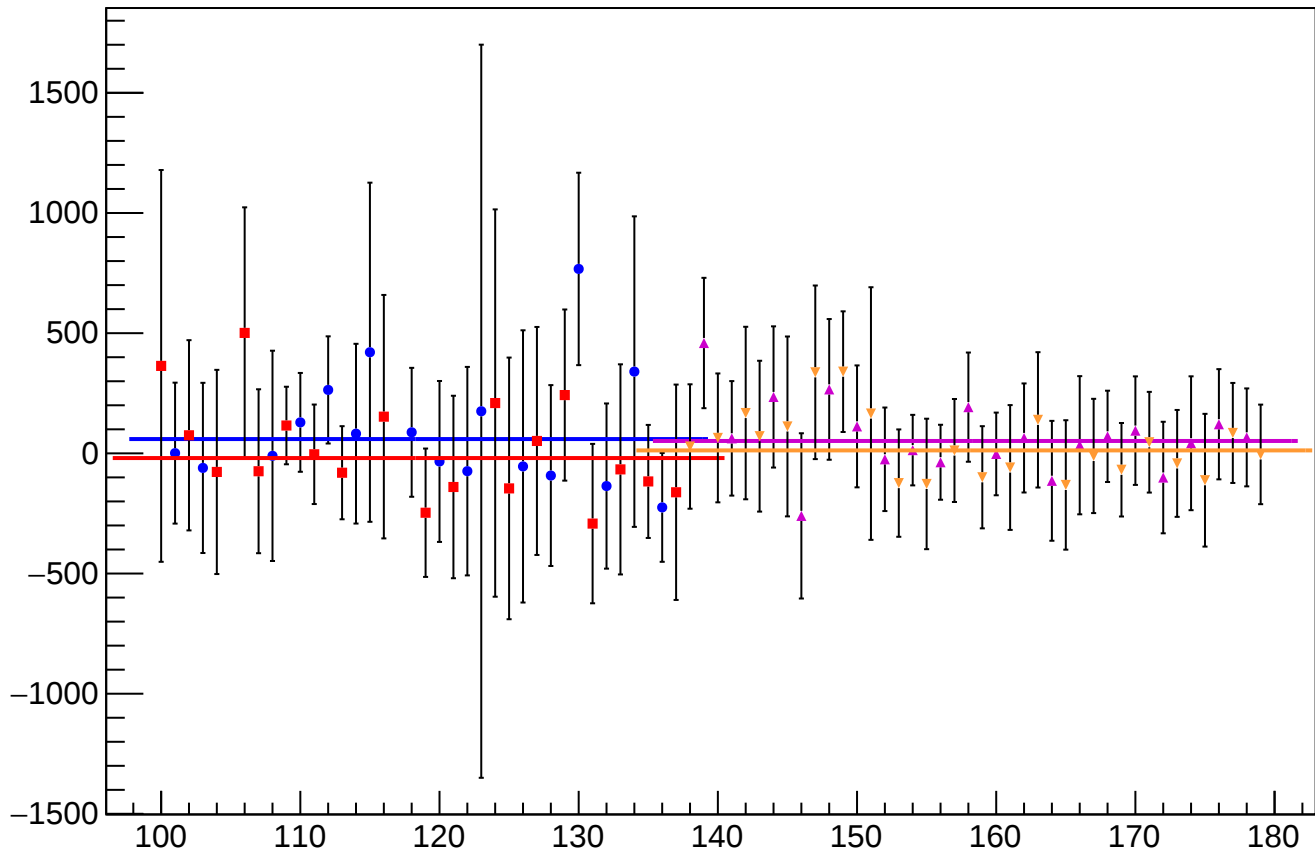
Right: 190.633+/-0.039 χ^2/NDF : 2325921.8/35

In: 190.996+/-0.030 χ^2/NDF : 2342583.0/36

Out: 202.308+/-0.031 χ^2/NDF : 2910864.2/40

All: 196.527+/-0.022 χ^2/NDF : 5322470.7/77

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 ± 80.808 χ^2/NDF : 7.0/16

Left Out: 12.312 ± 53.720 χ^2/NDF : 5.0/21

Right Out: -19.541 ± 71.866 χ^2/NDF : 4.7/18

Left In: 51.518 ± 49.367 χ^2/NDF : 6.1/19

Left: 33.568 ± 36.349 χ^2/NDF : 11.4/41

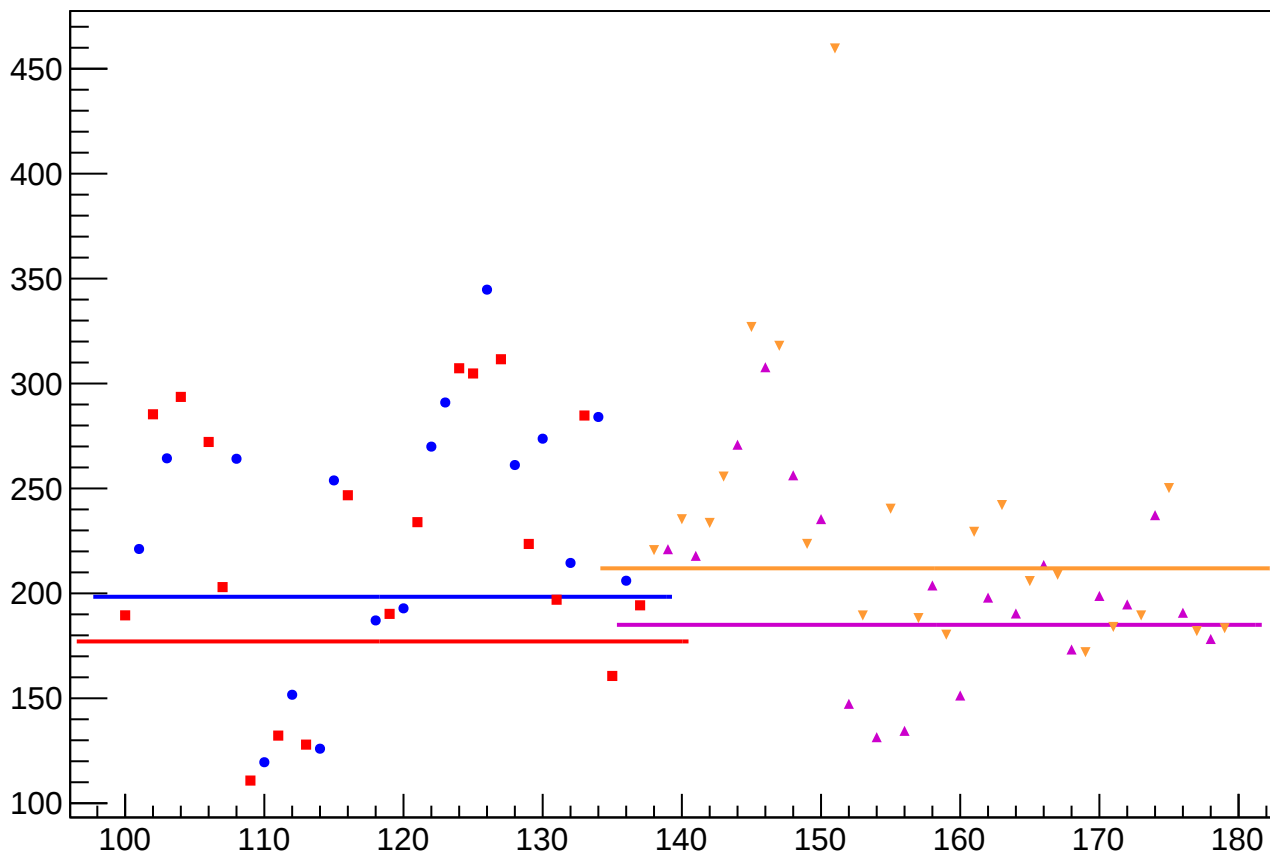
Right: 15.364 ± 53.701 χ^2/NDF : 12.3/35

In: 53.686 ± 42.128 χ^2/NDF : 13.1/36

Out: 0.894 ± 43.028 χ^2/NDF : 9.9/40

All: 27.848 ± 30.102 χ^2/NDF : 23.7/77

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378 ± 0.057 χ^2/NDF : 963672.6/16

Left Out: 211.935 ± 0.038 χ^2/NDF : 1275887.9/21

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: 197.338 ± 0.026 χ^2/NDF : 2992143.3/41

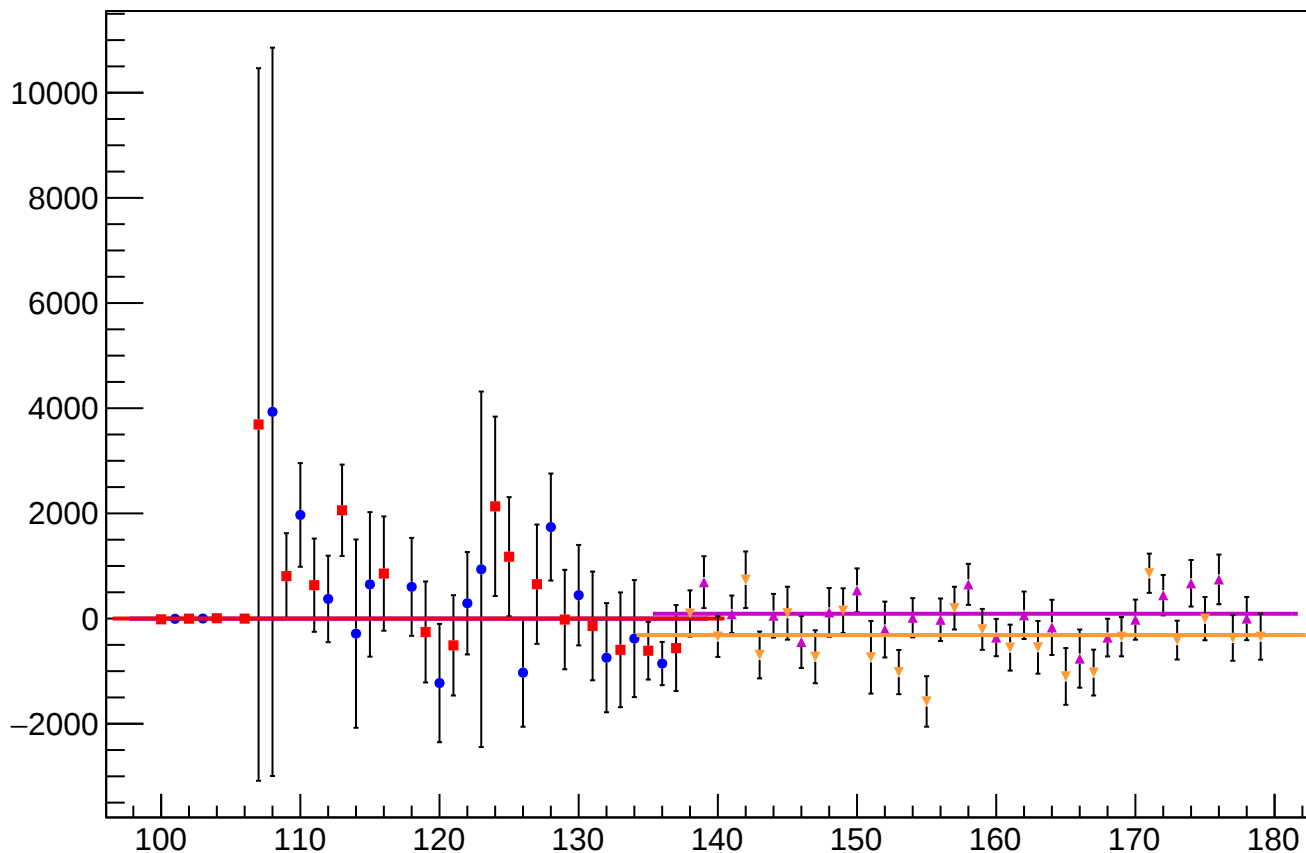
Right: 186.495 ± 0.038 χ^2/NDF : 2565896.1/35

In: 188.644 ± 0.030 χ^2/NDF : 2447410.4/36

Out: 199.447 ± 0.030 χ^2/NDF : 3102190.2/40

All: 193.931 ± 0.021 χ^2/NDF : 5613962.8/77

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -313.821 ± 93.386 χ^2/NDF : 35.7/21

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: -113.112 ± 66.355 χ^2/NDF : 61.8/41

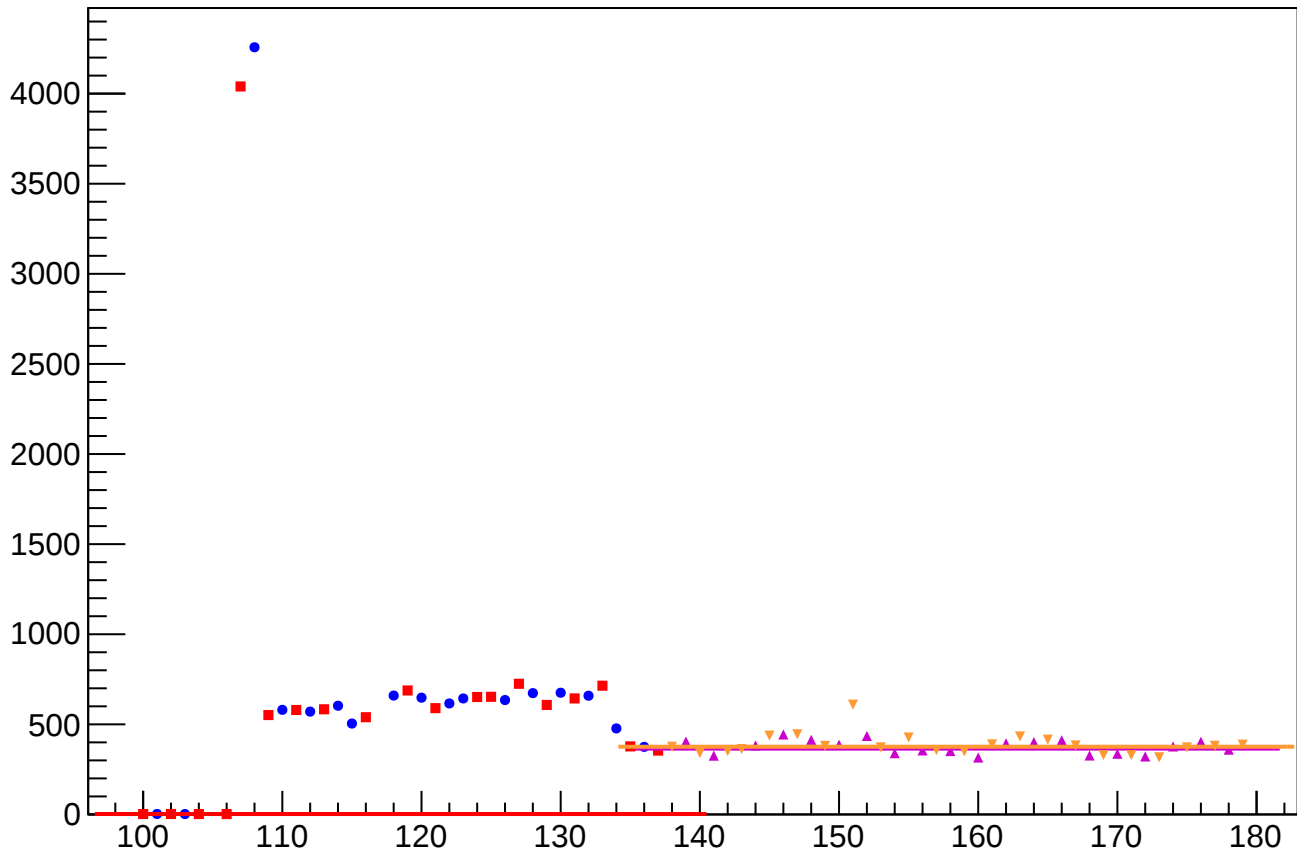
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.476 ± 2.251 χ^2/NDF : 34.7/36

Out: 0.566 ± 2.111 χ^2/NDF : 66.3/40

All: -0.390 ± 1.540 χ^2/NDF : 101.4/77

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457 $\pm$ 0.002 χ^2 /NDF: 10847802.4/16

Left Out: 375.862 $\pm$ 0.066 χ^2 /NDF: 507159.4/21

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: 370.624 $\pm$ 0.047 χ^2 /NDF: 831394.2/41

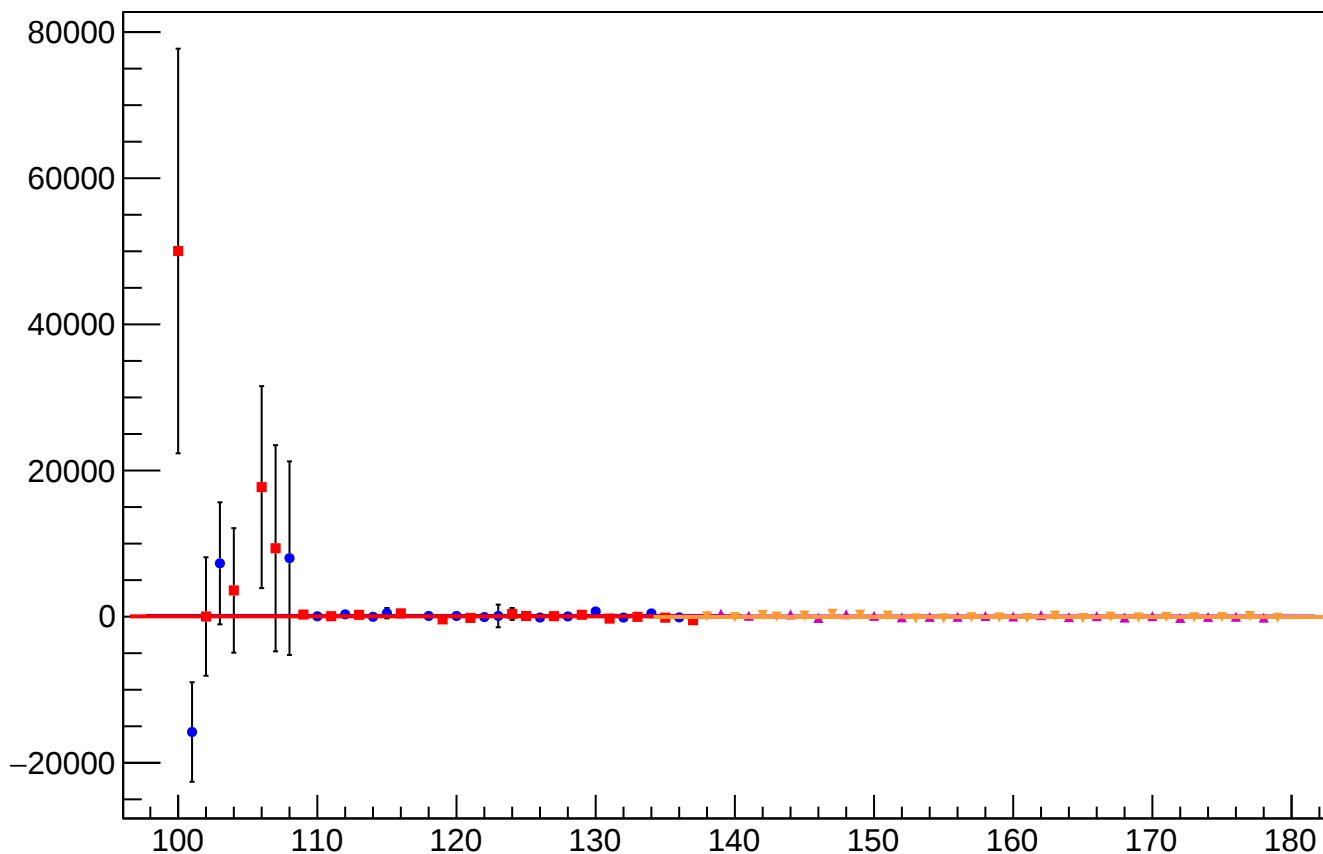
Right: 2.446 $\pm$ 0.001 χ^2 /NDF: 21995279.7/35

In: 2.663 $\pm$ 0.002 χ^2 /NDF: 40749345.3/36

Out: 2.627 $\pm$ 0.001 χ^2 /NDF: 43618040.8/40

All: 2.644 $\pm$ 0.001 χ^2 /NDF: 84367656.4/77

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -40.378+/-54.698 χ^2/NDF : 7.0/21

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 29.350+/-52.019 χ^2/NDF : 7.5/19

Left: -3.764+/-37.694 χ^2/NDF : 15.3/41

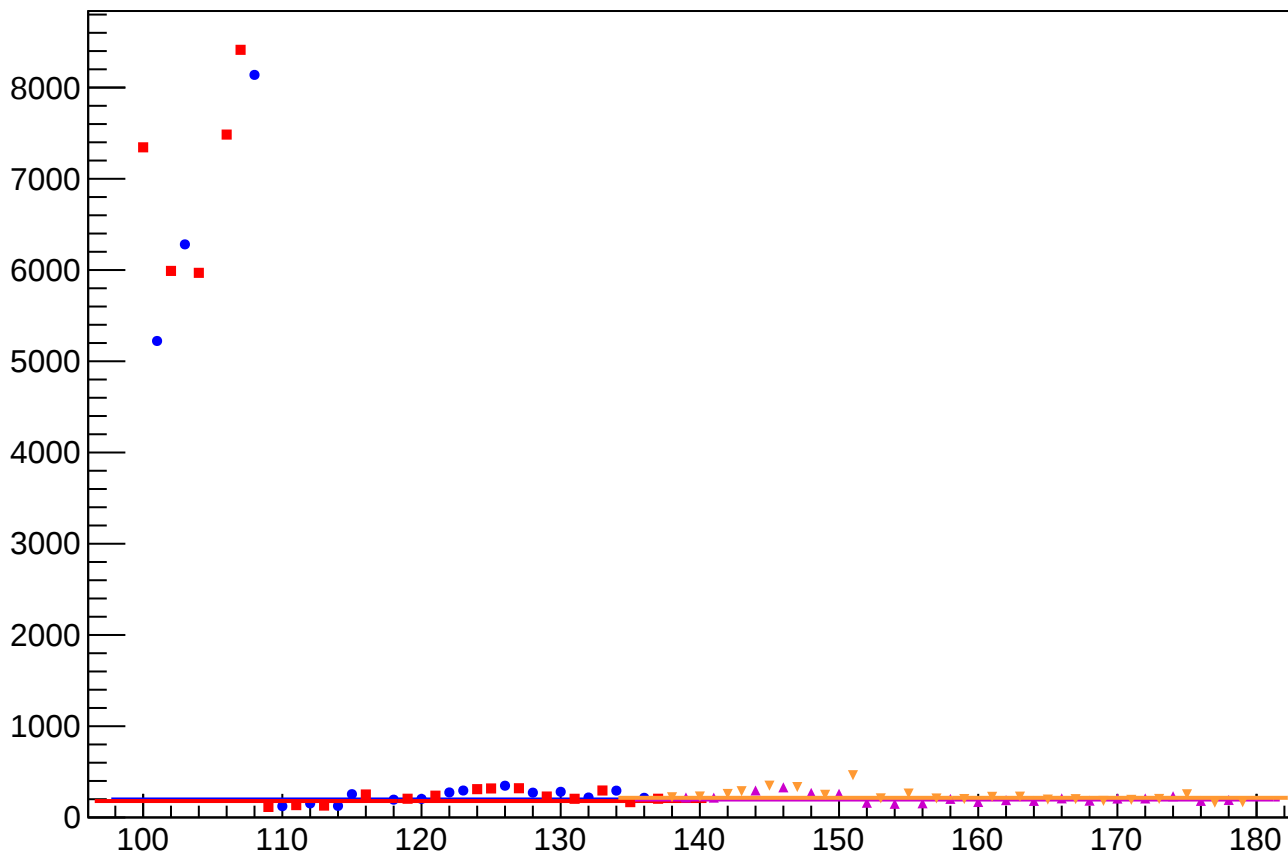
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 46.456+/-45.144 χ^2/NDF : 19.8/36

Out: -15.962+/-45.917 χ^2/NDF : 21.6/40

All: 15.777+/-32.191 χ^2/NDF : 42.3/77

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 215.255+/-0.039 χ^2/NDF :1511279.6/21

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: 205.314+/-0.027 χ^2/NDF : 2762008.2/41

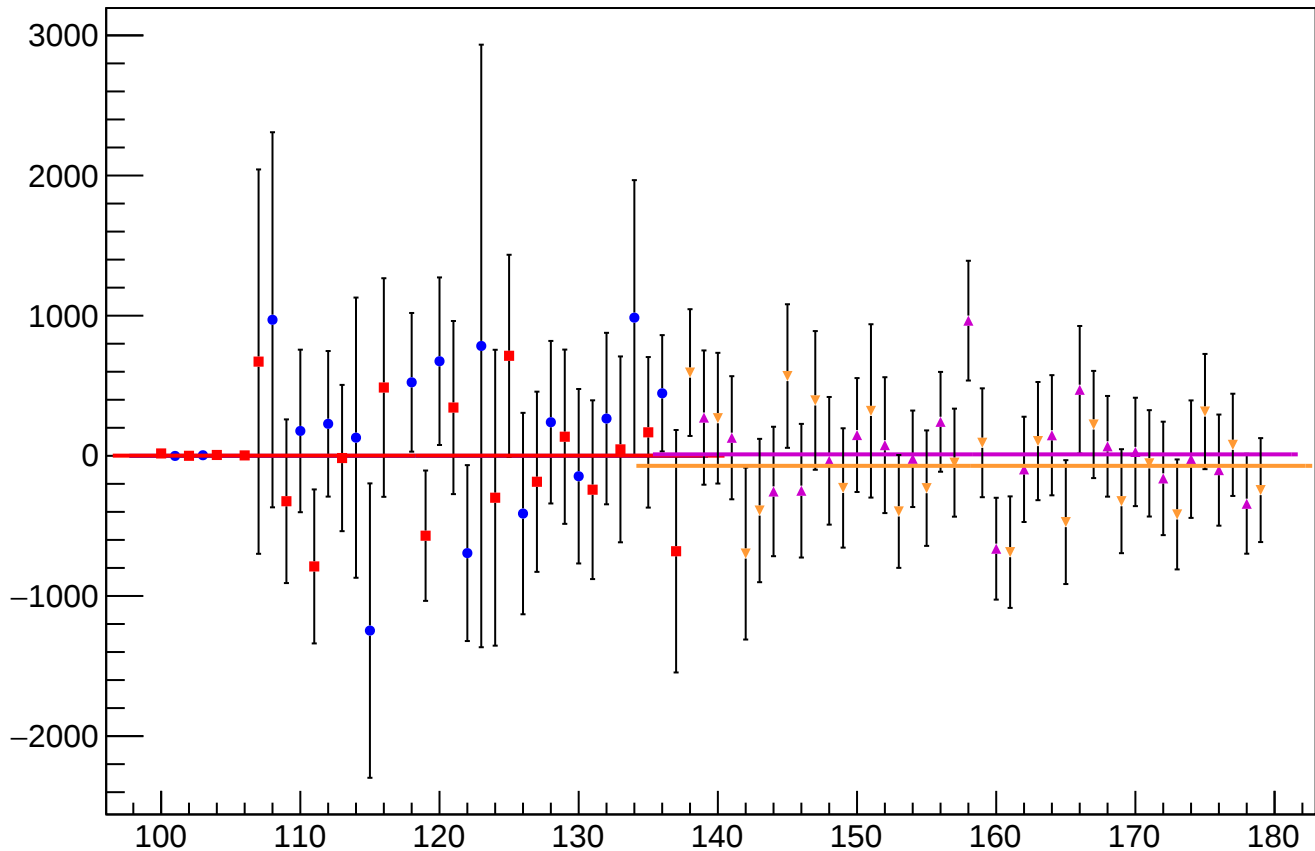
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 196.511+/-0.032 χ^2/NDF :4818629.2/36

Out: 204.829+/-0.032 χ^2/NDF :6078519.2/40

All: 200.599+/-0.023 χ^2/NDF : 10930525.0/77

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 $\pm$ 1.737 χ^2/NDF : 9.7/16

Left Out: -71.451 $\pm$ 90.269 χ^2/NDF :14.6/21

Right Out: 1.323 $\pm$ 1.623 χ^2/NDF : 9.6/18

Left In: 10.408 $\pm$ 90.927 χ^2/NDF :12.5/19

Left: -30.818 $\pm$ 64.061 χ^2/NDF : 27.5/41

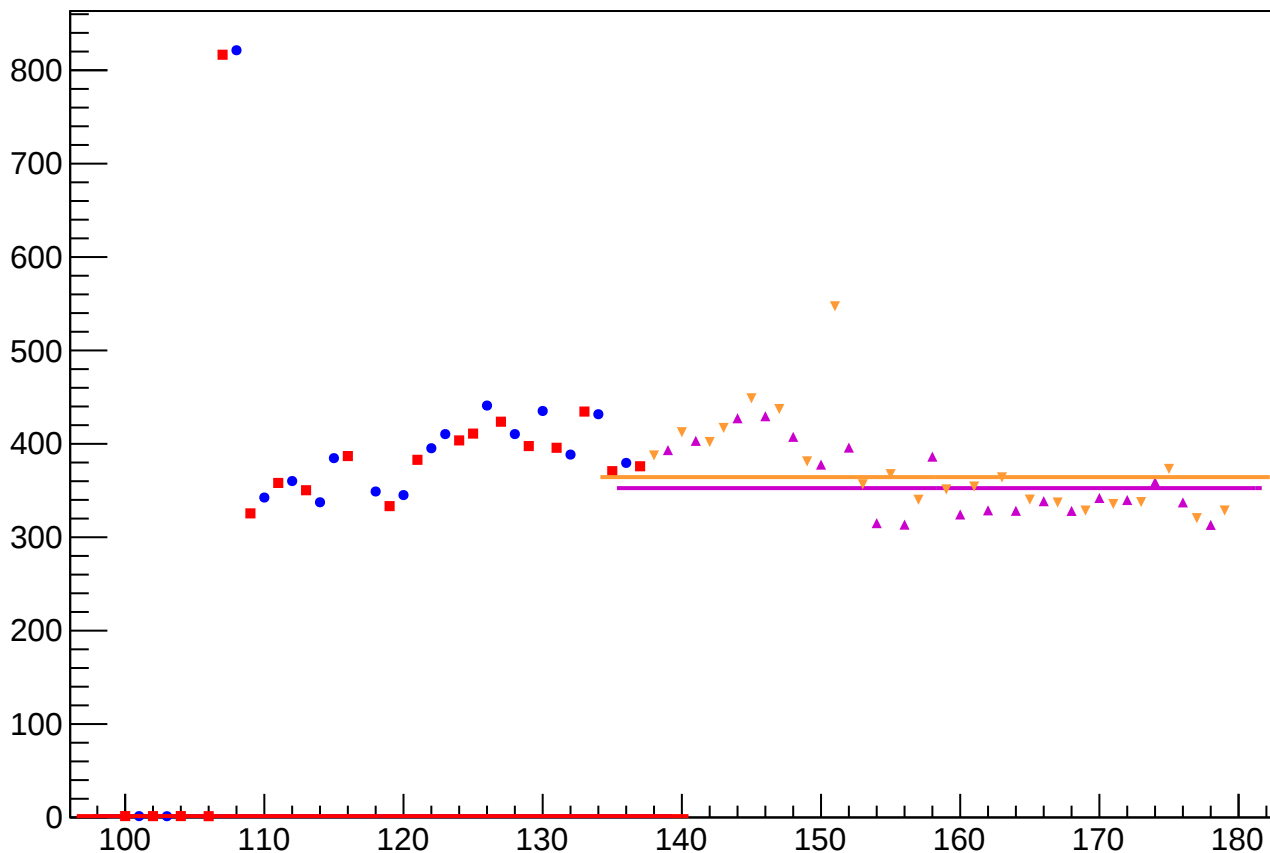
Right: 0.642 $\pm$ 1.186 χ^2/NDF : 19.7/35

In: -0.134 $\pm$ 1.736 χ^2/NDF :22.2/36

Out: 1.300 $\pm$ 1.622 χ^2/NDF :24.9/40

All: 0.631 $\pm$ 1.185 χ^2/NDF : 47.5/77

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 364.385+/-0.064 χ^2/NDF : 447333.6/21

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 352.611+/-0.064 χ^2/NDF : 327520.5/19

Left: 358.541+/-0.045 χ^2/NDF : 791741.2/41

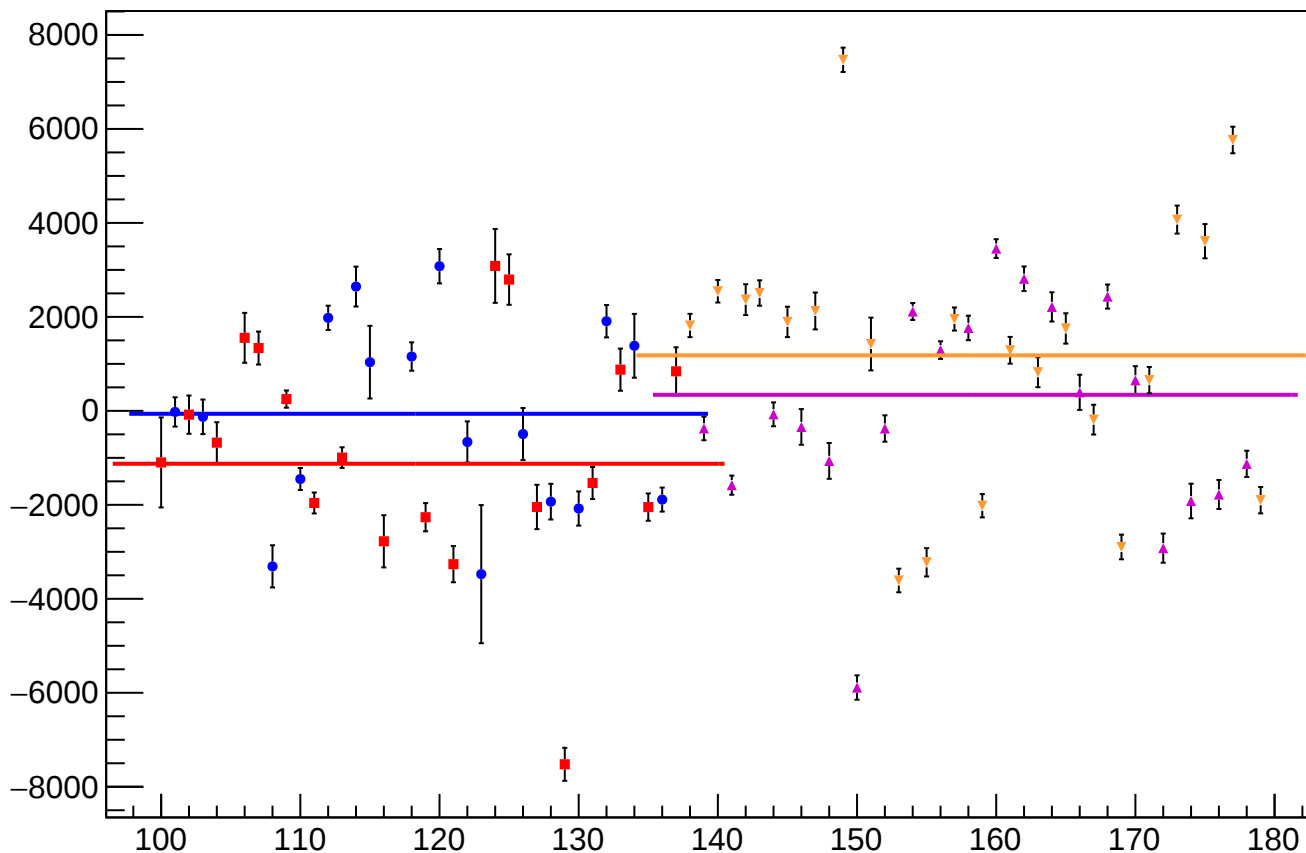
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.581+/-0.001 χ^2/NDF : 41104739.7/36

Out: 1.568+/-0.001 χ^2/NDF : 43647567.3/40

All: 1.574+/-0.001 χ^2/NDF : 84752363.2/77

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 $\pm$ 87.424 χ^2/NDF : 433.9/16

Left Out: 1181.081 $\pm$ 61.617 χ^2/NDF :2222.1/21

Right Out: -1125.437 $\pm$ 78.370 χ^2/NDF : 671.2/18

Left In: 341.450 $\pm$ 58.194 χ^2/NDF :1511.6/19

Left: 737.297 $\pm$ 42.308 χ^2/NDF : 3831.9/41

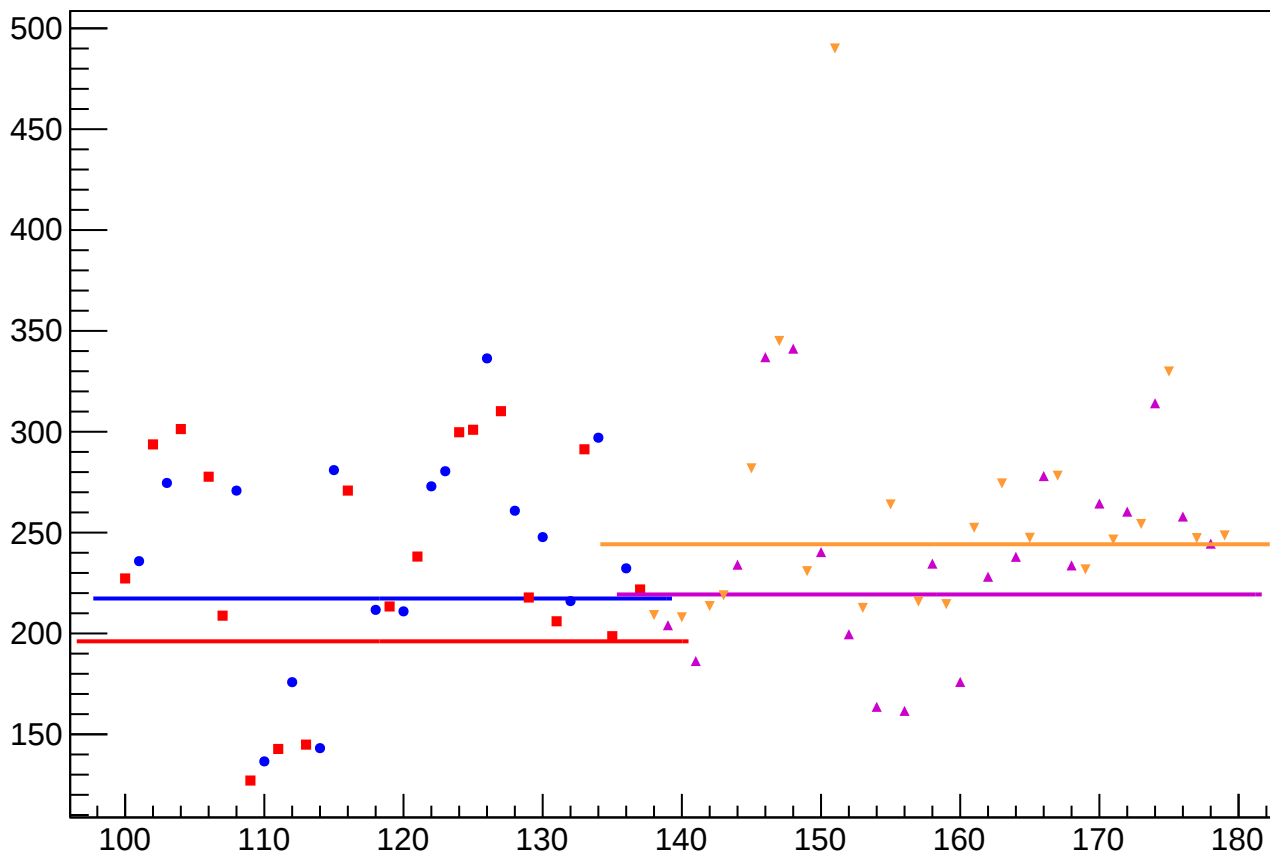
Right: -651.694 $\pm$ 58.355 χ^2/NDF : 1187.1/35

In: 217.520 $\pm$ 48.443 χ^2/NDF :1960.3/36

Out: 299.944 $\pm$ 48.438 χ^2/NDF :3428.6/40

All: 258.736 $\pm$ 34.253 χ^2/NDF : 5390.4/77

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 ± 0.062 χ^2/NDF : 652722.5/16

Left Out: 244.214 ± 0.044 χ^2/NDF : 925526.4/21

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: 231.066 ± 0.030 χ^2/NDF : 2389292.1/41

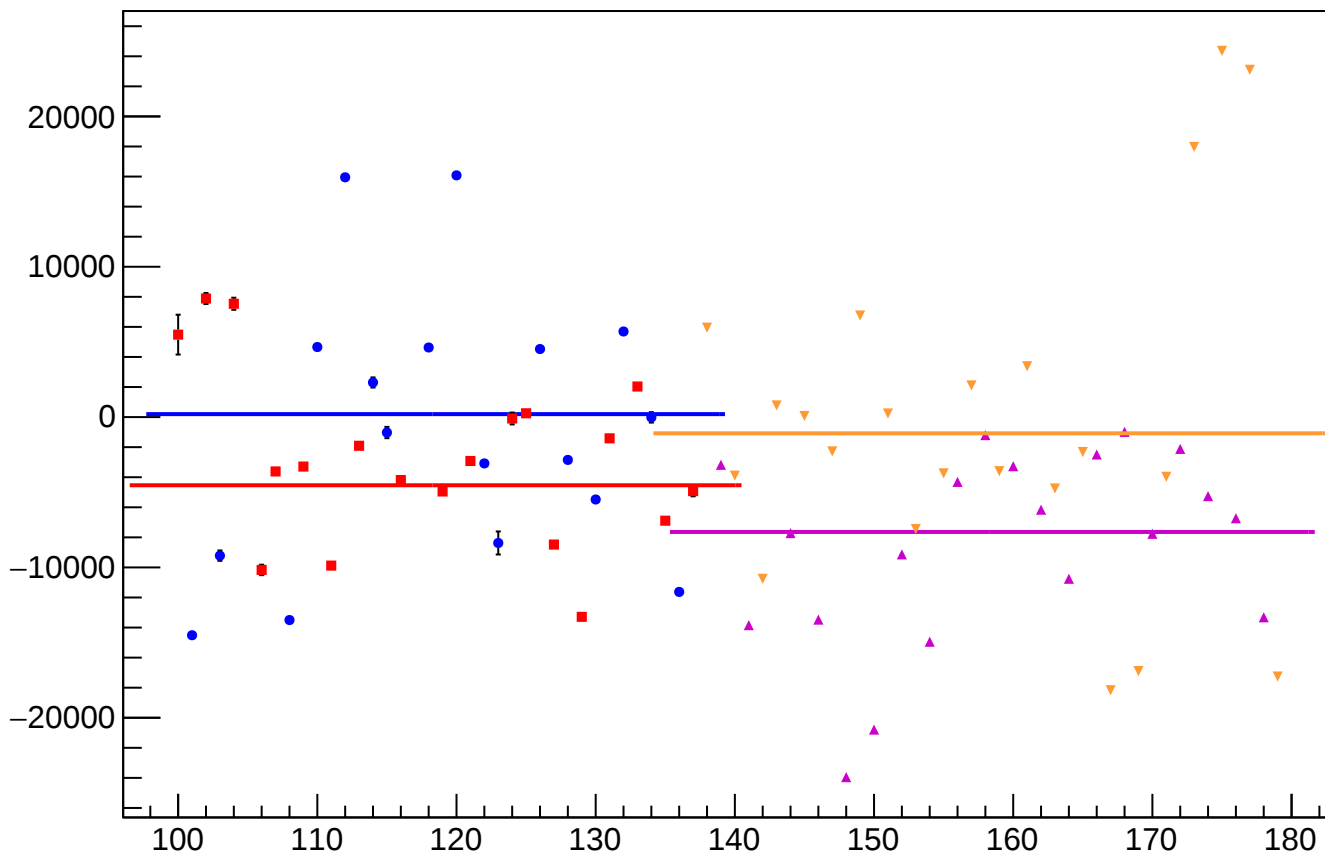
Right: 205.562 ± 0.041 χ^2/NDF : 1908816.5/35

In: 218.722 ± 0.034 χ^2/NDF : 1944933.8/36

Out: 225.836 ± 0.034 χ^2/NDF : 2582018.6/40

All: 222.279 ± 0.024 χ^2/NDF : 4548518.3/77

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1079.039 ± 43.777 $\chi^2/\text{NDF}: 56246.0/21$

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: -4217.628 ± 31.621 $\chi^2/\text{NDF}: 84729.8/41$

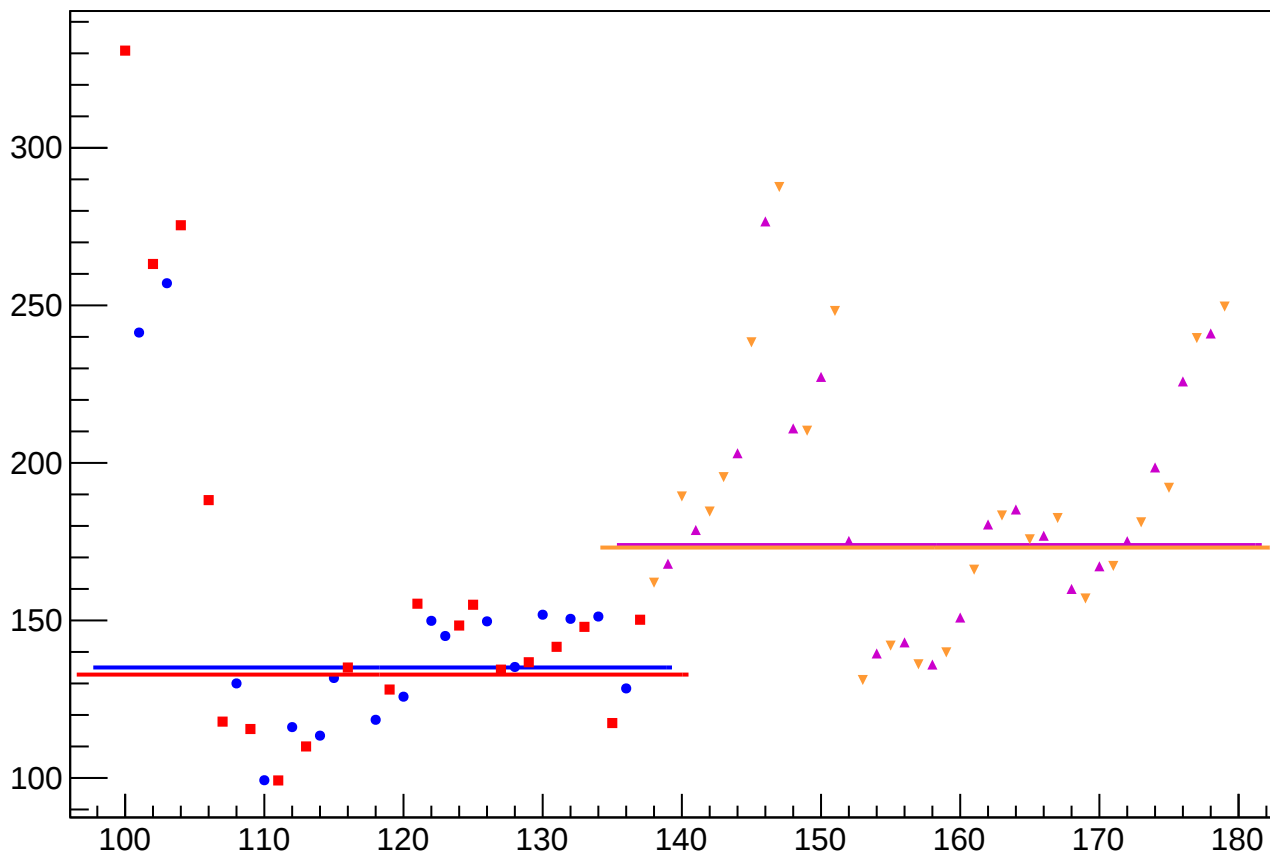
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4424.207 ± 35.107 $\chi^2/\text{NDF}: 60457.3/36$

Out: -2497.336 ± 33.612 $\chi^2/\text{NDF}: 66280.3/40$

All: -3418.858 ± 24.279 $\chi^2/\text{NDF}: 128309.4/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 173.137 $\pm$ 0.031 χ^2 /NDF:1332023.5/21

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: 173.515 $\pm$ 0.022 χ^2 /NDF: 2309737.0/41

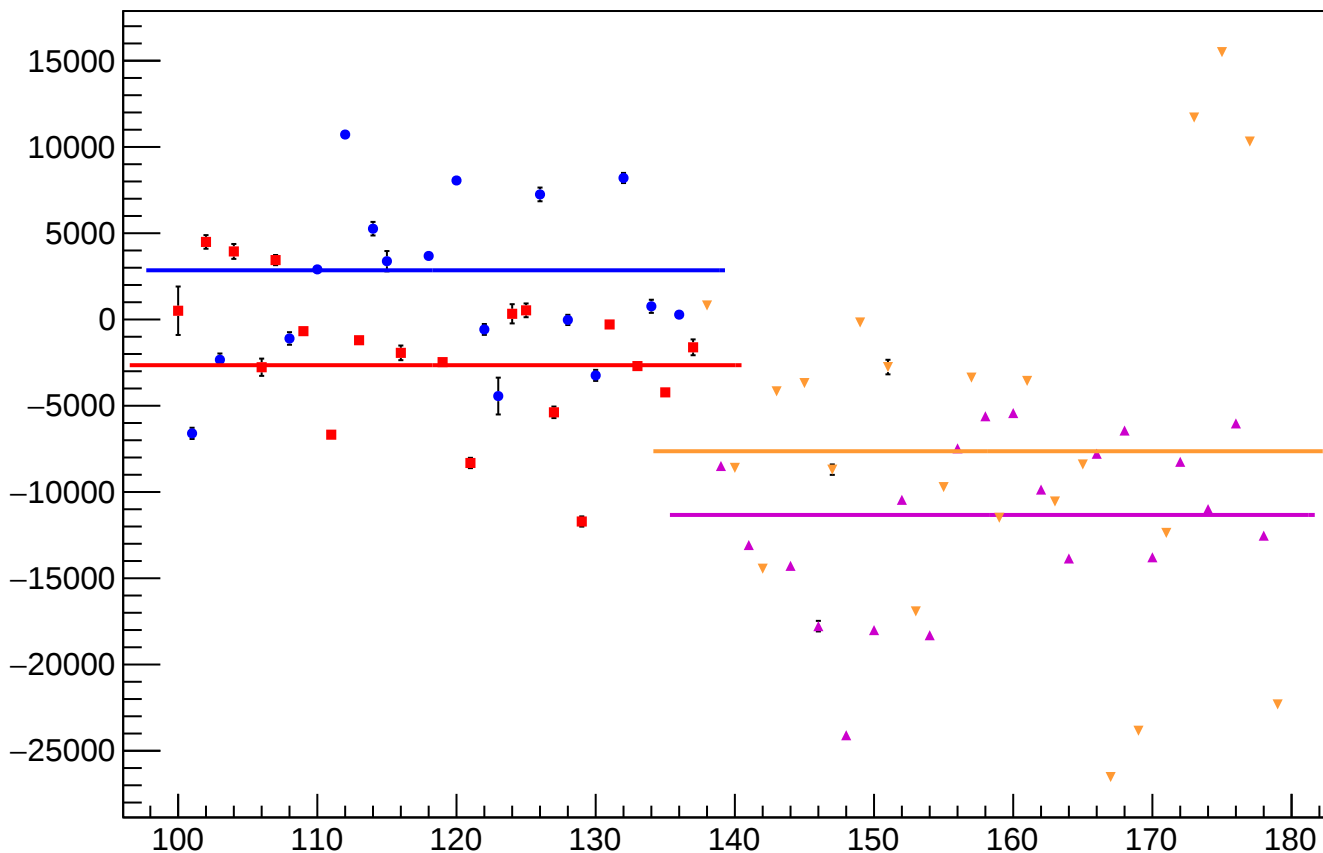
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 157.980 $\pm$ 0.025 χ^2 /NDF:2228940.1/36

Out: 156.586 $\pm$ 0.024 χ^2 /NDF:2859678.9/40

All: 157.252 $\pm$ 0.017 χ^2 /NDF: 5090263.5/77

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7636.273+/-48.312 χ^2/NDF : 49025.2/21

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: -9564.203+/-33.399 χ^2/NDF : 63401.1/41

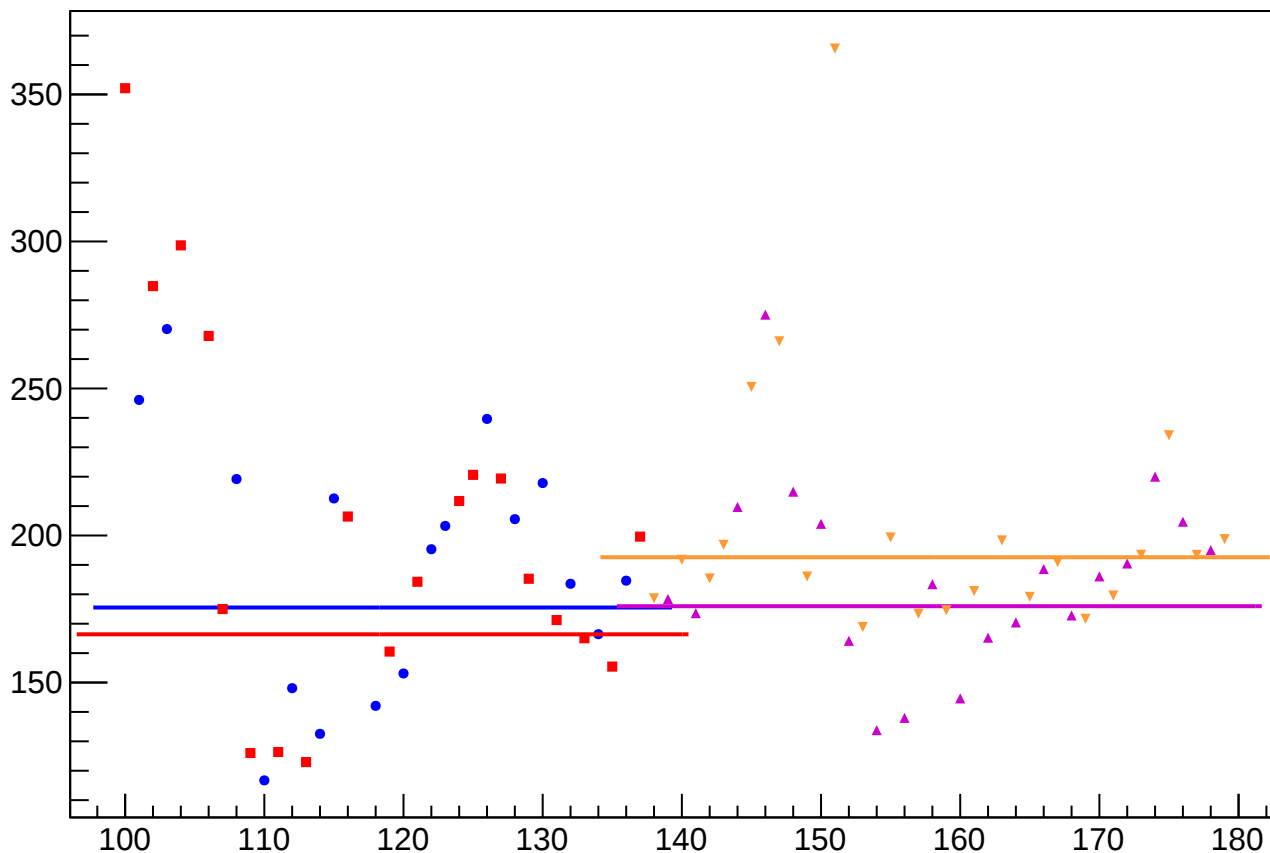
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -7087.079+/-38.698 χ^2/NDF : 43656.5/36

Out: -5887.089+/-38.928 χ^2/NDF : 55938.4/40

All: -6490.635+/-27.445 χ^2/NDF : 100072.9/77

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514+/-0.050 χ^2/NDF : 689642.3/16

Left Out: 192.607+/-0.034 χ^2/NDF : 712704.7/21

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: 183.914+/-0.024 χ^2/NDF : 1659630.1/41

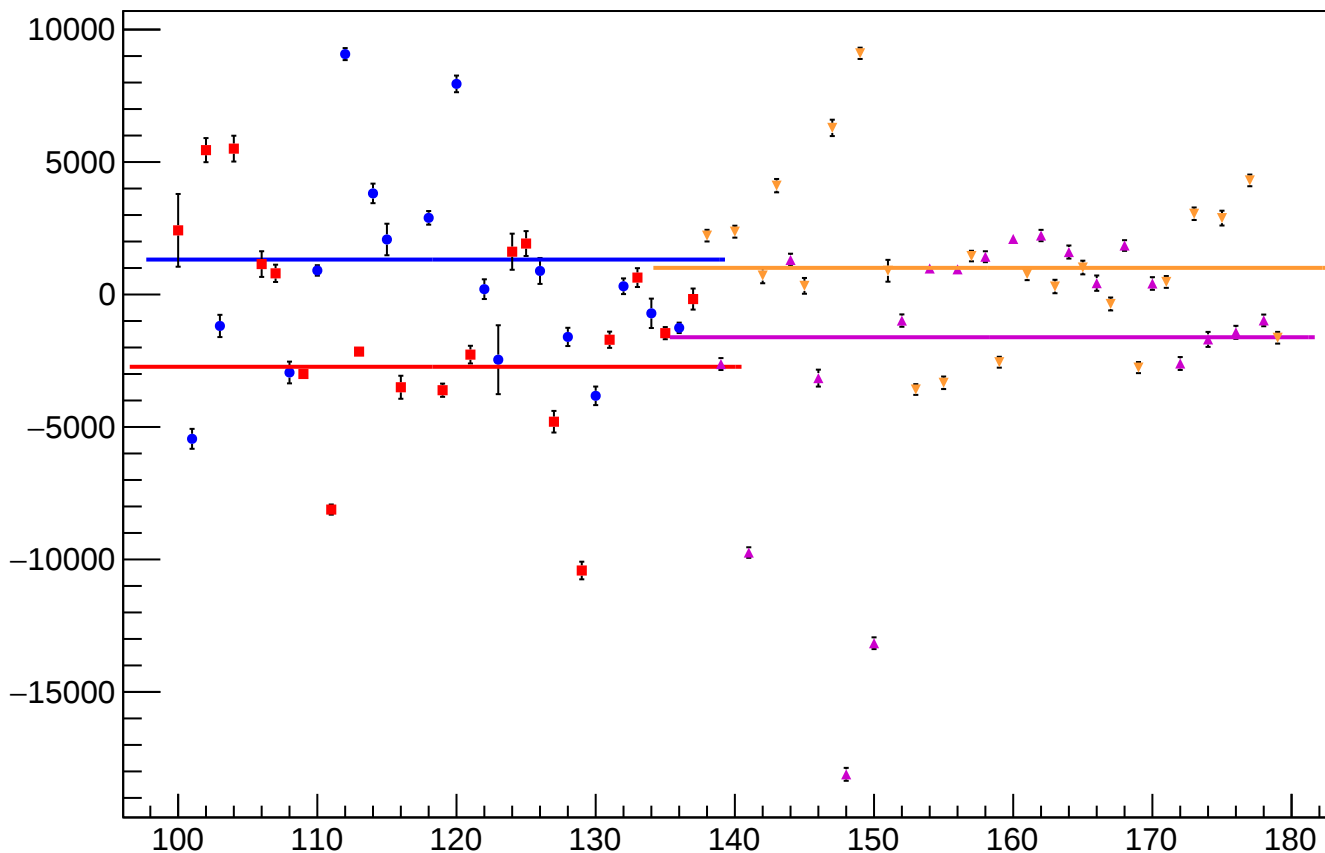
Right: 170.618+/-0.034 χ^2/NDF : 1637018.2/35

In: 175.823+/-0.027 χ^2/NDF : 1512580.9/36

Out: 183.413+/-0.028 χ^2/NDF : 1848769.4/40

All: 179.596+/-0.019 χ^2/NDF : 3399584.0/77

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 1005.570+/-50.712 χ^2/NDF : 3970.3/21

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1612.533+/-48.463 χ^2/NDF : 11312.3/19

Left: -362.818+/-35.037 χ^2/NDF : 16675.7/41

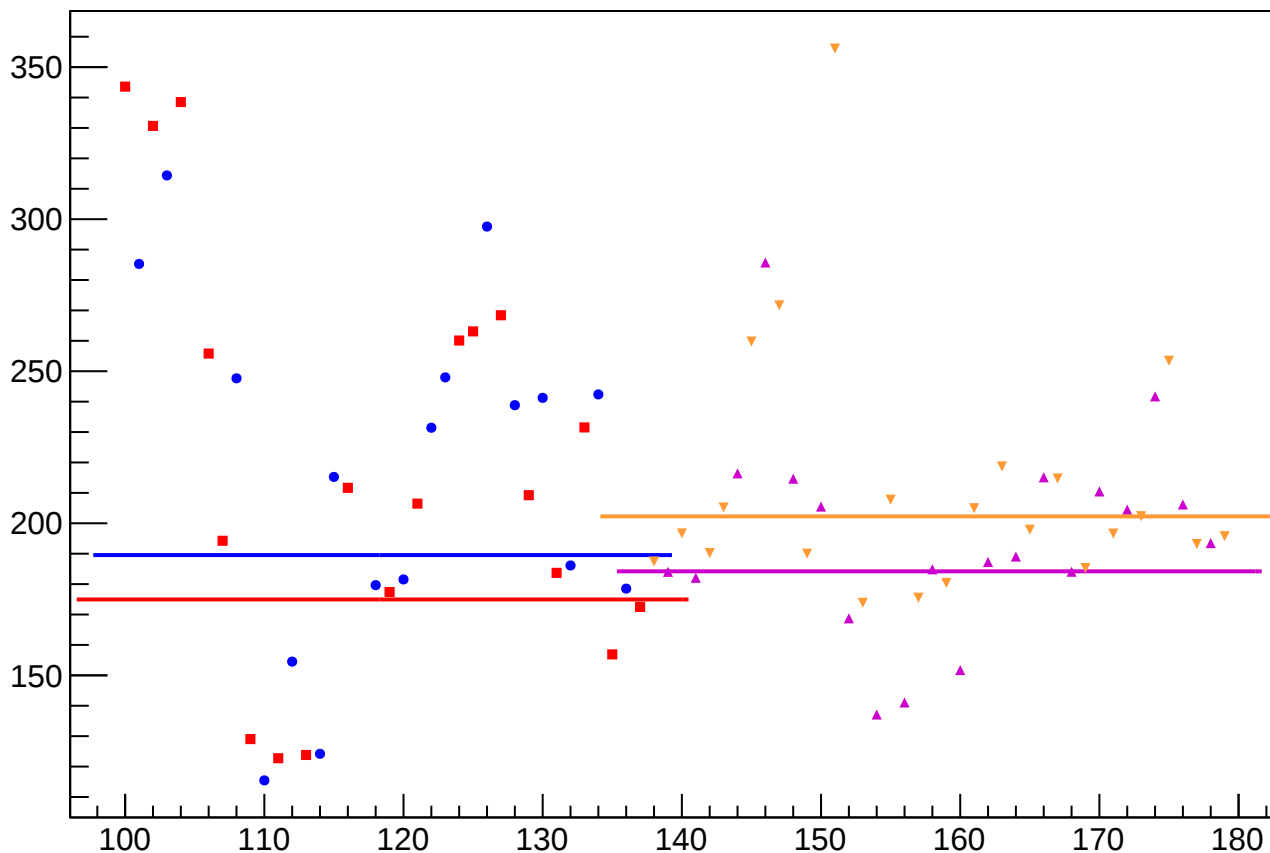
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -783.003+/-41.037 χ^2/NDF : 15014.7/36

Out: -278.717+/-41.073 χ^2/NDF : 8330.7/40

All: -531.081+/-29.030 χ^2/NDF : 23420.8/77

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544 $\pm$ 0.055 χ^2 /NDF: 980744.6/16

Left Out: 202.261 $\pm$ 0.036 χ^2 /NDF: 674679.9/21

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: 192.821 $\pm$ 0.025 χ^2 /NDF: 1674916.9/41

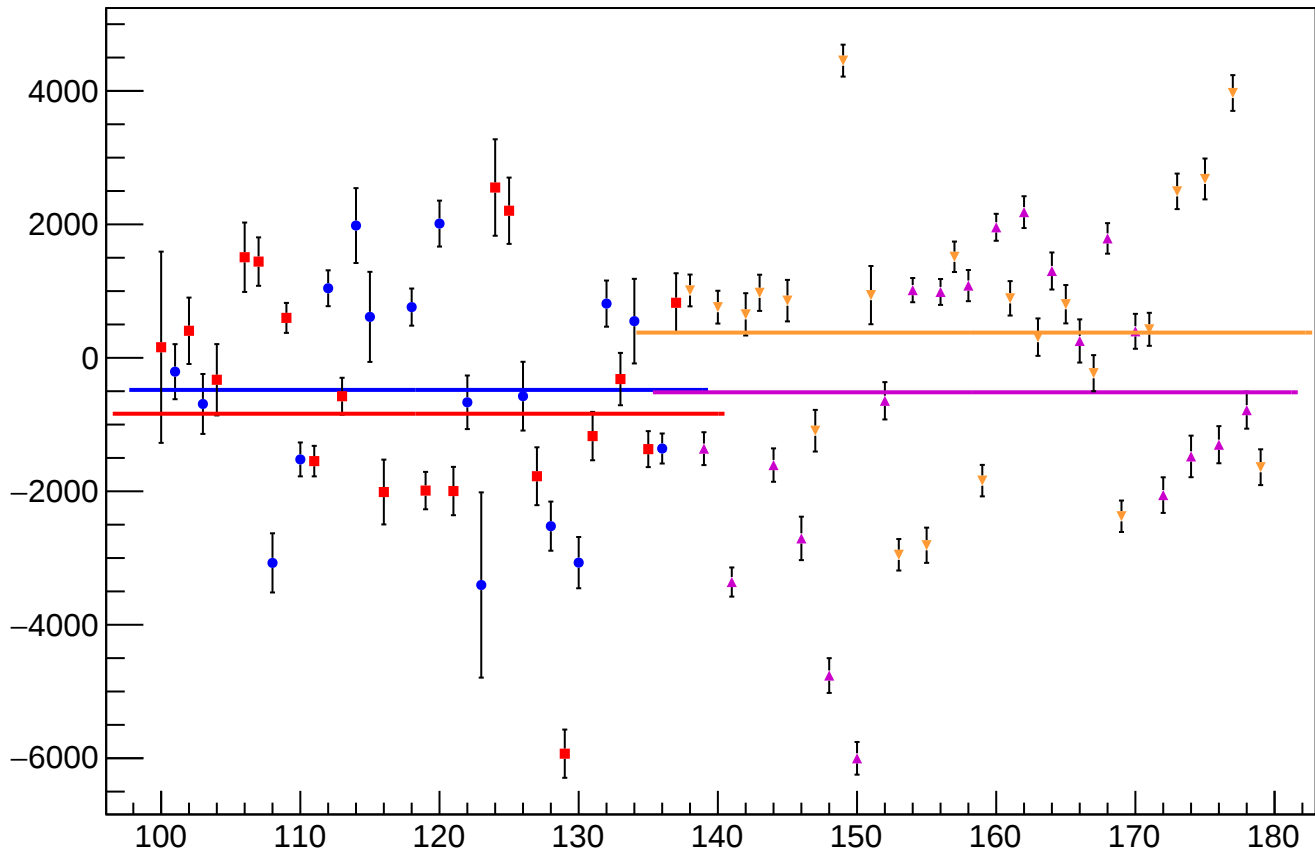
Right: 181.540 $\pm$ 0.037 χ^2 /NDF: 2317127.7/35

In: 185.713 $\pm$ 0.029 χ^2 /NDF: 1855270.1/36

Out: 192.864 $\pm$ 0.029 χ^2 /NDF: 2171432.6/40

All: 189.285 $\pm$ 0.021 χ^2 /NDF: 4057045.5/77

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Left: -82.777 ± 39.465 χ^2/NDF : 3105.0/41

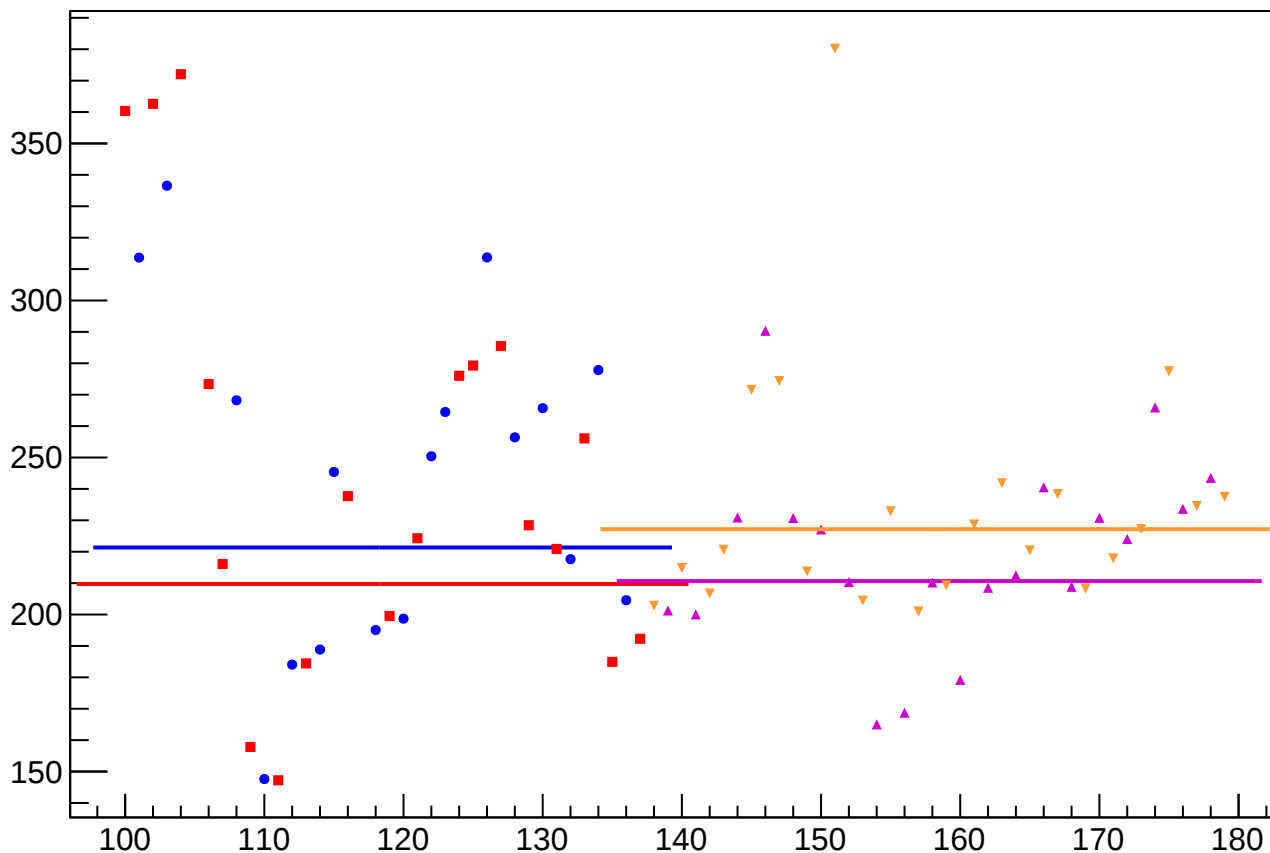
Right: -672.351 ± 60.290 χ^2/NDF : 734.7/35

In: -506.394 ± 46.716 χ^2/NDF : 1973.7/36

Out: -13.254 ± 46.678 χ^2/NDF : 1877.1/40

All: -259.623 ± 33.019 χ^2/NDF : 3906.6/77

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342+/-0.063 χ^2/NDF : 645688.1/16

Left Out: 227.180+/-0.040 χ^2/NDF : 515843.3/21

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: 218.658+/-0.028 χ^2/NDF : 1172614.2/41

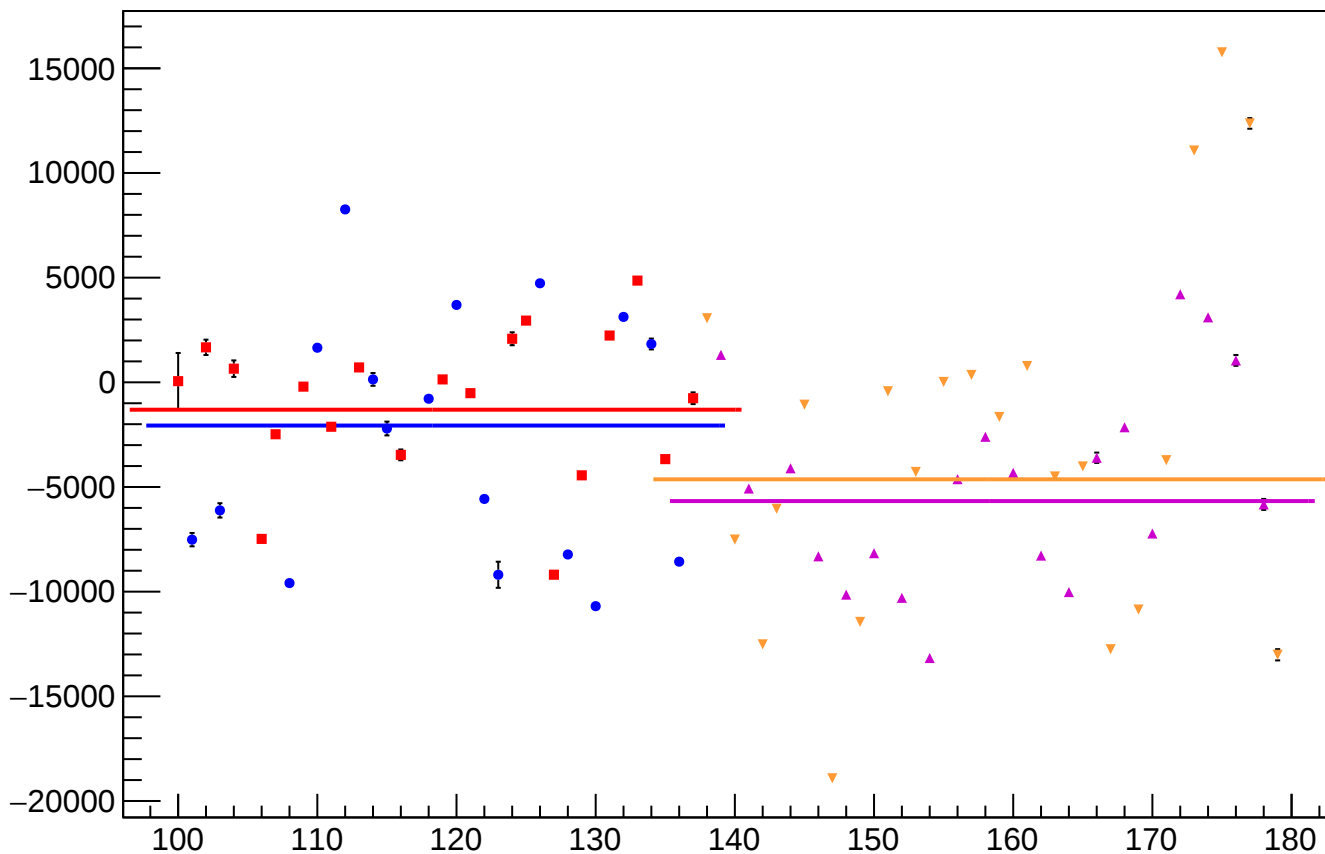
Right: 215.095+/-0.043 χ^2/NDF : 1548093.3/35

In: 213.617+/-0.033 χ^2/NDF : 1235809.3/36

Out: 221.555+/-0.033 χ^2/NDF : 1460892.7/40

All: 217.589+/-0.023 χ^2/NDF : 2725598.5/77

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160+/-47.322 χ^2/NDF : 16533.3/16

Left Out: -4633.415+/-34.509 χ^2/NDF : 50432.1/21

Right Out: -1308.512+/-45.001 χ^2/NDF : 5894.4/18

Left In: -5672.812+/-35.753 χ^2/NDF : 14090.8/19

Left: -5134.724+/-24.830 χ^2/NDF : 64960.4/41

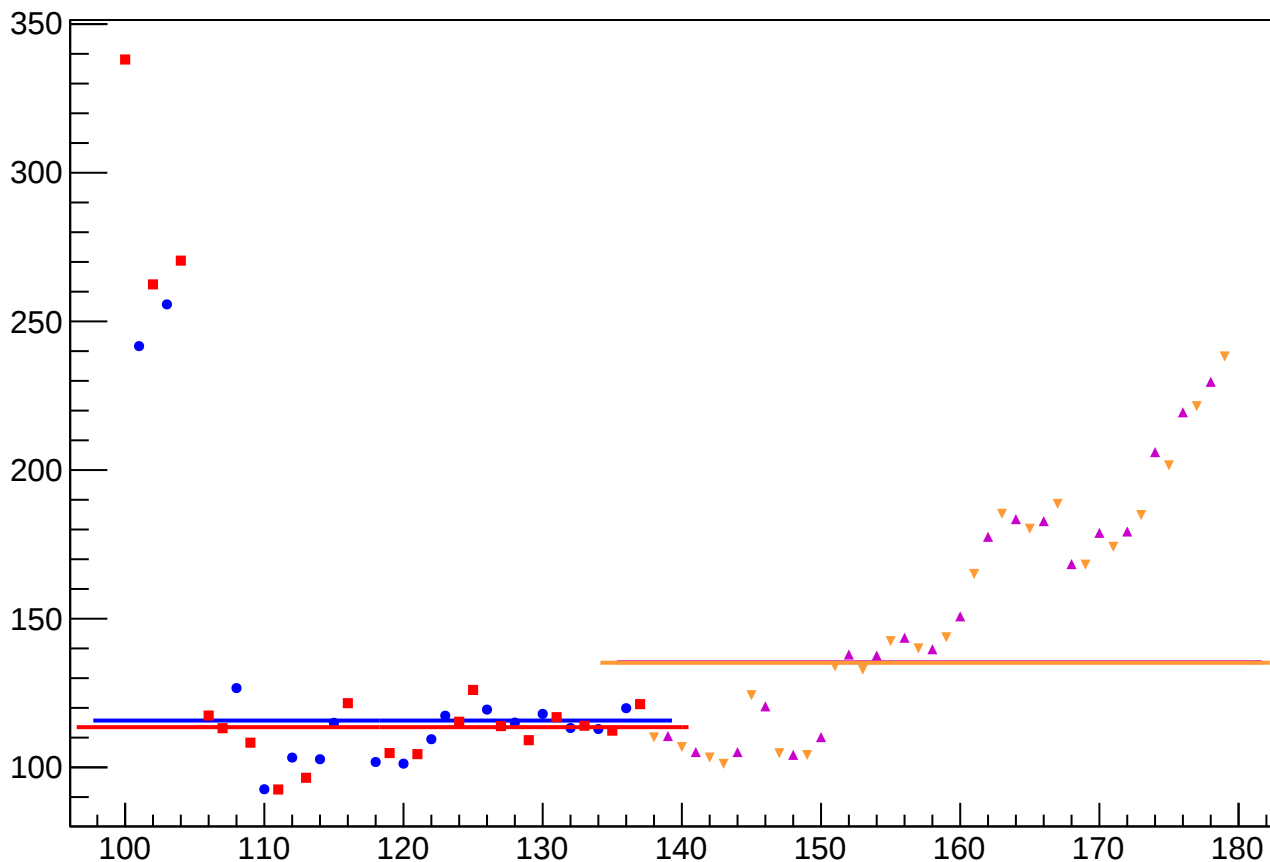
Right: -1667.825+/-32.610 χ^2/NDF : 22561.9/35

In: -4361.842+/-28.526 χ^2/NDF : 34324.1/36

Out: -3402.190+/-27.384 χ^2/NDF : 59763.9/40

All: -3862.420+/-19.755 χ^2/NDF : 94677.0/77

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 135.194+/-0.024 χ^2/NDF : 2006897.3/21

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 135.355+/-0.025 χ^2/NDF : 1743908.8/19

Left: 135.272+/-0.018 χ^2/NDF : 3750827.3/41

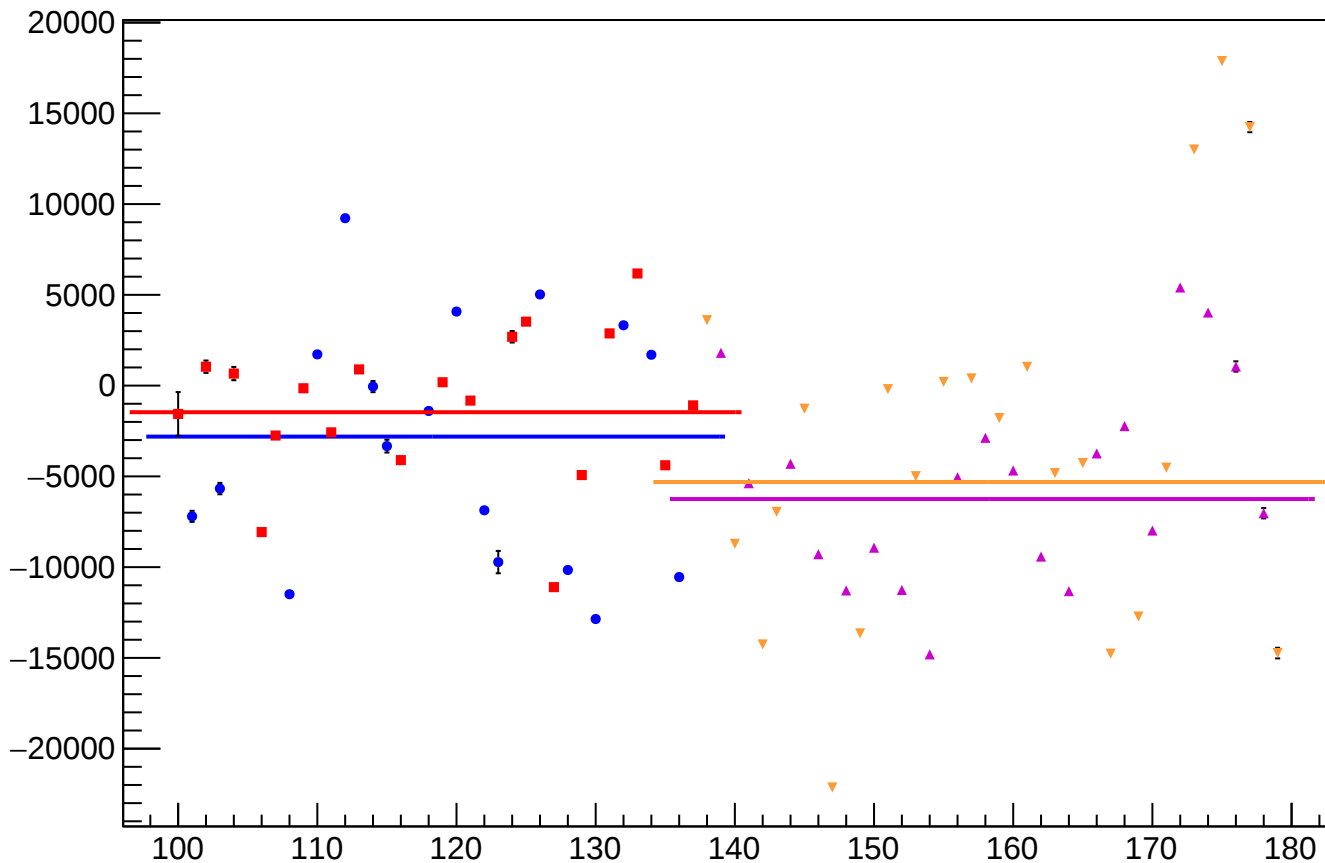
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 128.228+/-0.020 χ^2/NDF : 2706675.4/36

Out: 127.167+/-0.019 χ^2/NDF : 3095691.1/40

All: 127.676+/-0.014 χ^2/NDF : 5803804.3/77

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101+/-48.284 χ^2/NDF : 21263.1/16

Left Out: -5309.658+/-36.735 χ^2/NDF : 58609.4/21

Right Out: -1465.074+/-46.394 χ^2/NDF : 8004.7/18

Left In: -6247.867+/-38.073 χ^2/NDF : 16348.4/19

Left: -5761.996+/-26.436 χ^2/NDF : 75272.3/41

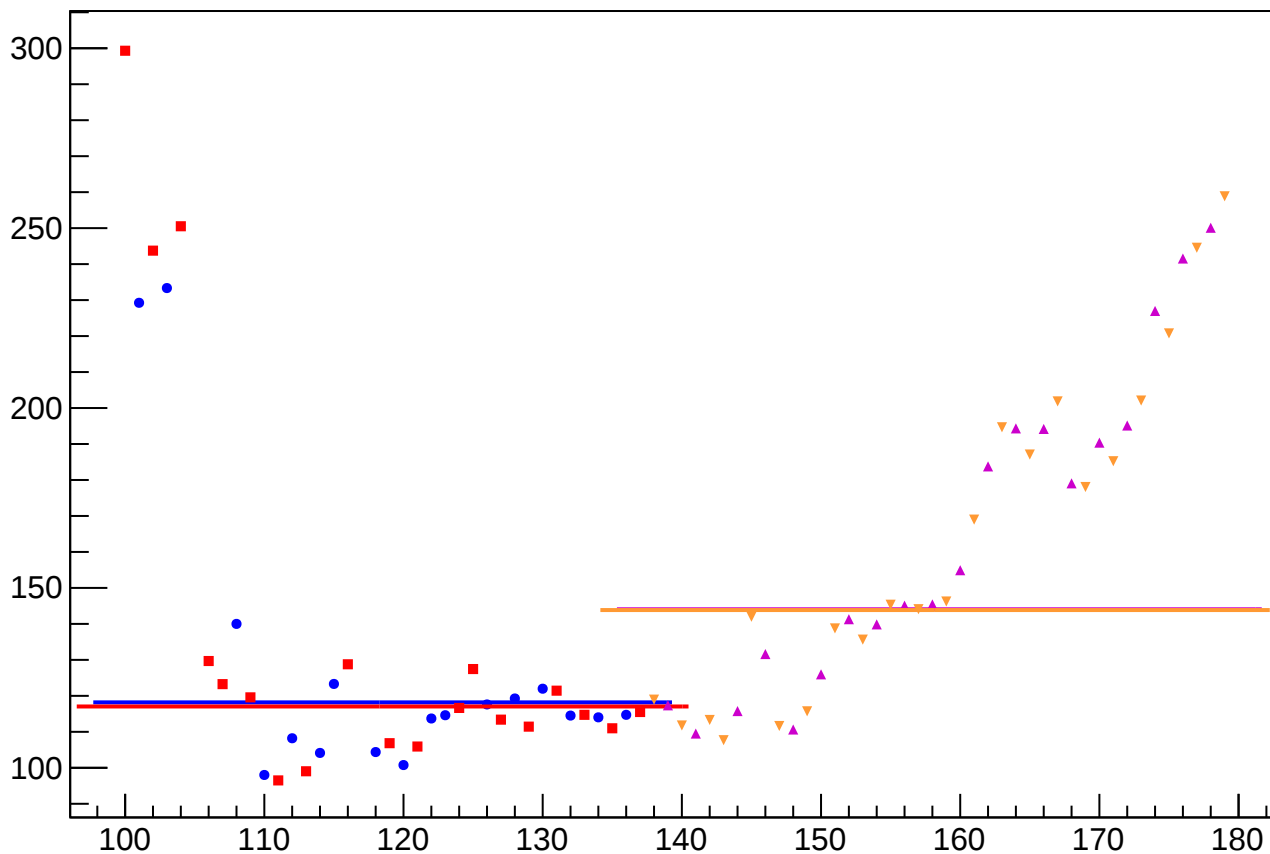
Right: -2110.267+/-33.454 χ^2/NDF : 29670.7/35

In: -4929.516+/-29.897 χ^2/NDF : 40739.1/36

Out: -3828.129+/-28.800 χ^2/NDF : 70834.9/40

All: -4358.258+/-20.742 χ^2/NDF : 112278.0/77

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188 $\pm$ 0.034 χ^2 /NDF: 636252.0/16

Left Out: 143.845 $\pm$ 0.026 χ^2 /NDF:1971984.2/21

Right Out: 117.046 $\pm$ 0.033 χ^2 /NDF: 690635.5/18

Left In: 144.067 $\pm$ 0.027 χ^2 /NDF:1714351.9/19

Left: 143.952 $\pm$ 0.019 χ^2 /NDF: 3686371.0/41

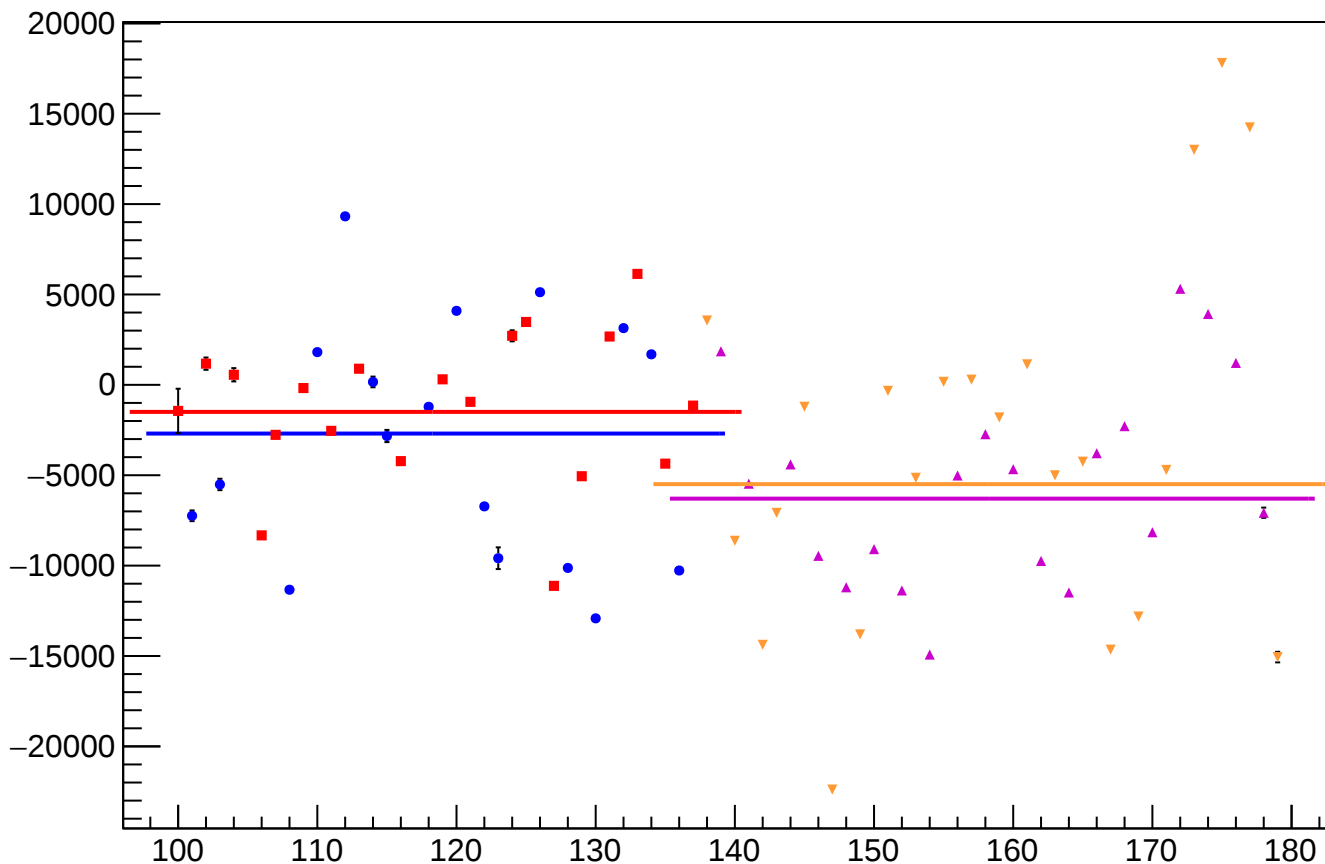
Right: 117.594 $\pm$ 0.024 χ^2 /NDF: 1327469.8/35

In: 134.145 $\pm$ 0.021 χ^2 /NDF:2704852.0/36

Out: 133.518 $\pm$ 0.020 χ^2 /NDF:3072813.5/40

All: 133.820 $\pm$ 0.015 χ^2 /NDF: 5778122.4/77

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -5492.555+/-35.881 χ^2/NDF : 63073.4/21

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -6295.163+/-37.111 χ^2/NDF : 17459.7/19

Left: -5880.339+/-25.796 χ^2/NDF : 80774.9/41

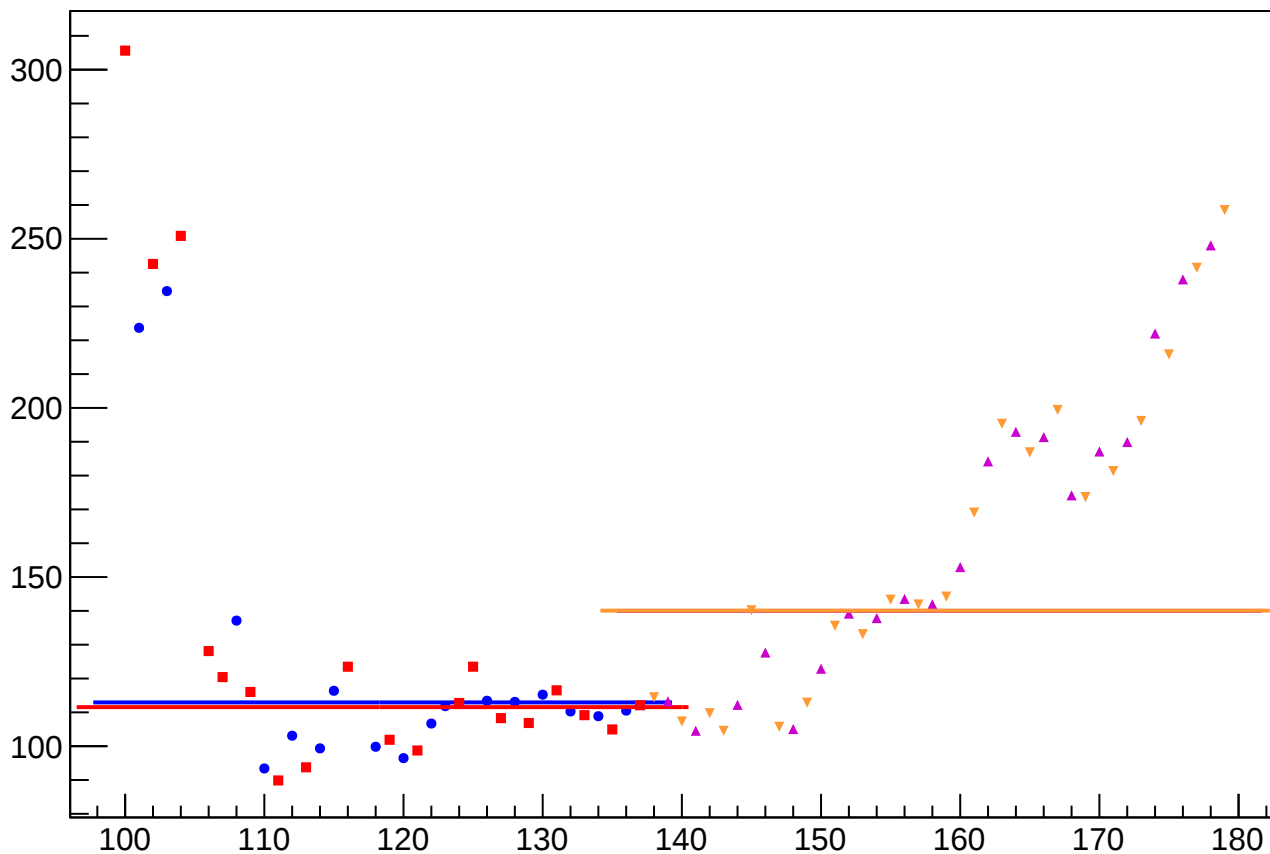
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -4888.388+/-28.969 χ^2/NDF : 43998.2/36

Out: -3915.461+/-27.919 χ^2/NDF : 76686.5/40

All: -4383.969+/-20.102 χ^2/NDF : 121269.5/77

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940 $\pm$ 0.033 χ^2 /NDF: 680283.1/16

Left Out: 140.070 $\pm$ 0.025 χ^2 /NDF:2115952.8/21

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: 140.030 $\pm$ 0.018 χ^2 /NDF: 3962229.6/41

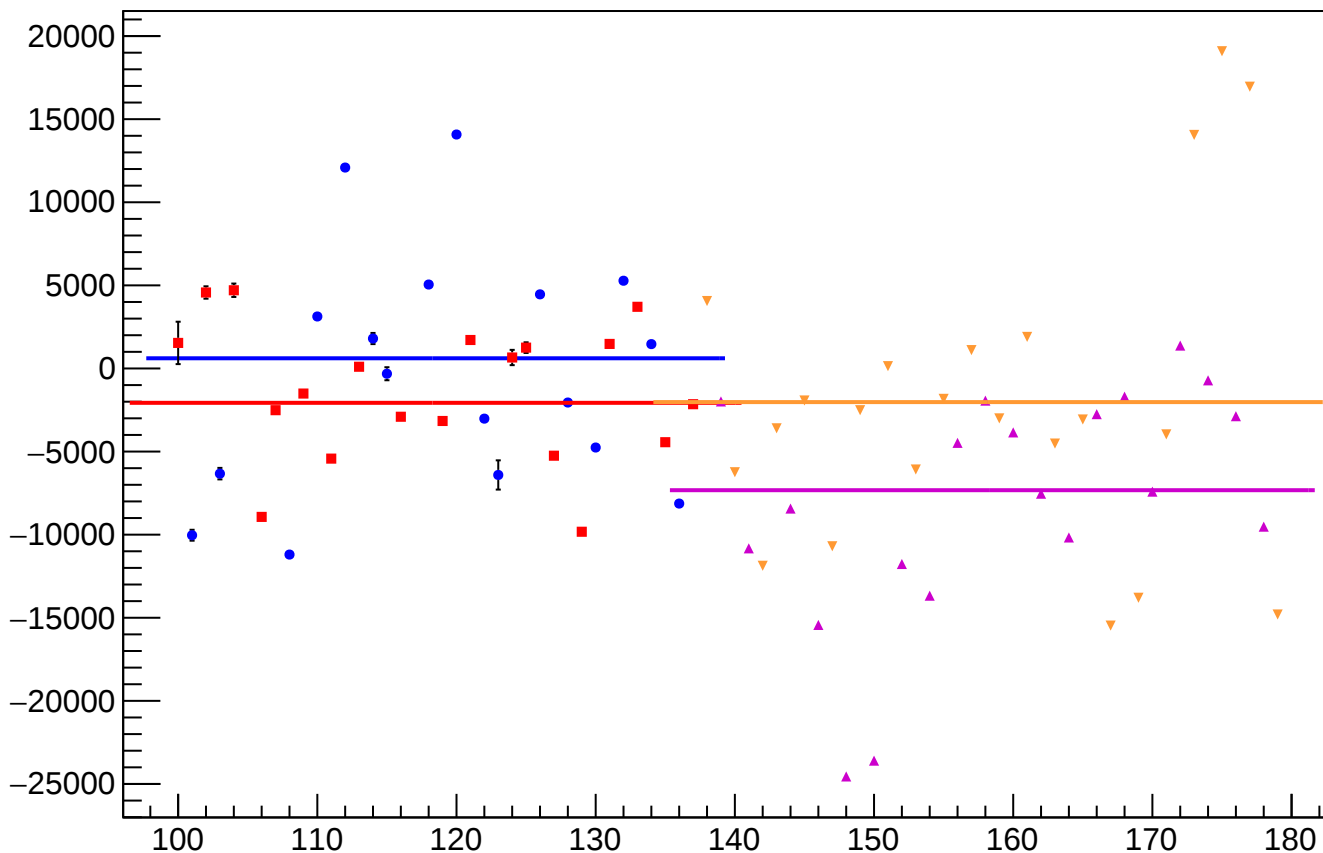
Right: 112.213 $\pm$ 0.023 χ^2 /NDF: 1446732.2/35

In: 129.420 $\pm$ 0.020 χ^2 /NDF:2941557.4/36

Out: 128.814 $\pm$ 0.020 χ^2 /NDF:3380277.3/40

All: 129.106 $\pm$ 0.014 χ^2 /NDF: 6322289.3/77

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -2023.678 ± 40.808 $\chi^2/\text{NDF}: 39549.6/21$

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: -4524.486 ± 29.660 $\chi^2/\text{NDF}: 66771.1/41$

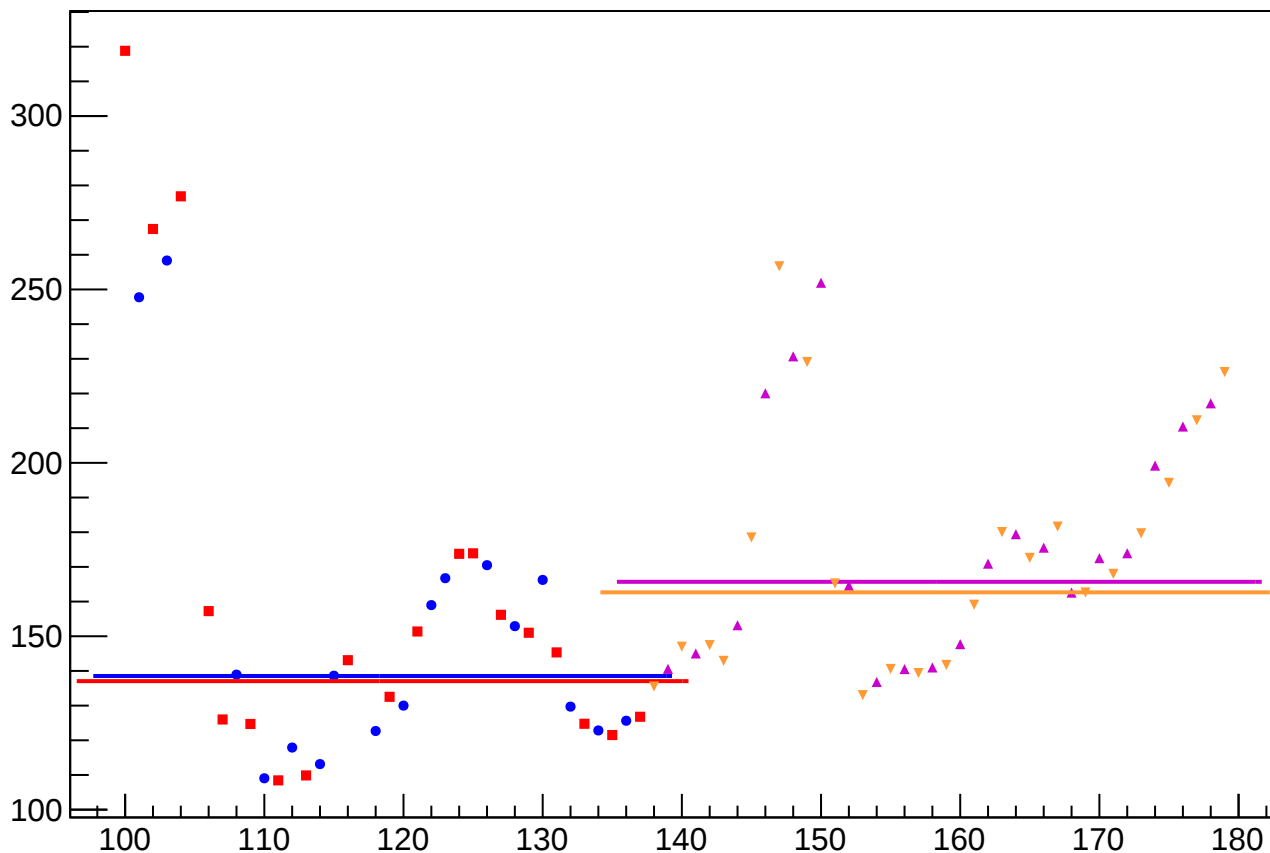
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4369.052 ± 34.211 $\chi^2/\text{NDF}: 50085.4/36$

Out: -2039.601 ± 32.542 $\chi^2/\text{NDF}: 44192.8/40$

All: -3146.135 ± 23.579 $\chi^2/\text{NDF}: 96712.2/77$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 162.662 $\pm$ 0.029 χ^2 /NDF:962035.8/21

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: 164.095 $\pm$ 0.021 χ^2 /NDF: 1886114.0/41

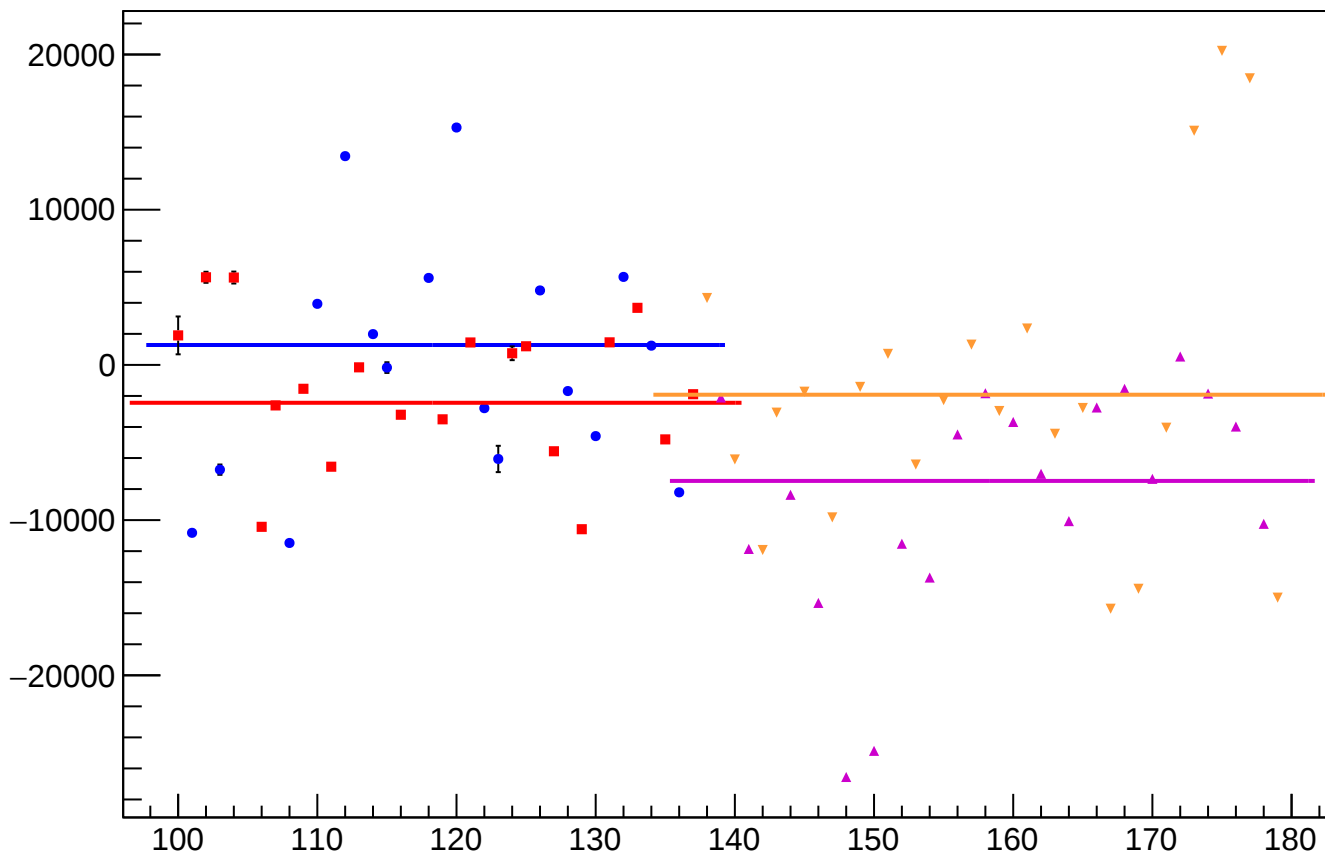
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 155.586 $\pm$ 0.024 χ^2 /NDF:1882351.8/36

Out: 153.341 $\pm$ 0.023 χ^2 /NDF:2004126.4/40

All: 154.407 $\pm$ 0.017 χ^2 /NDF: 3891001.8/77

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -1920.813+/-36.836 χ^2/NDF : 49218.0/21

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: -4533.653+/-26.806 χ^2/NDF : 83896.2/41

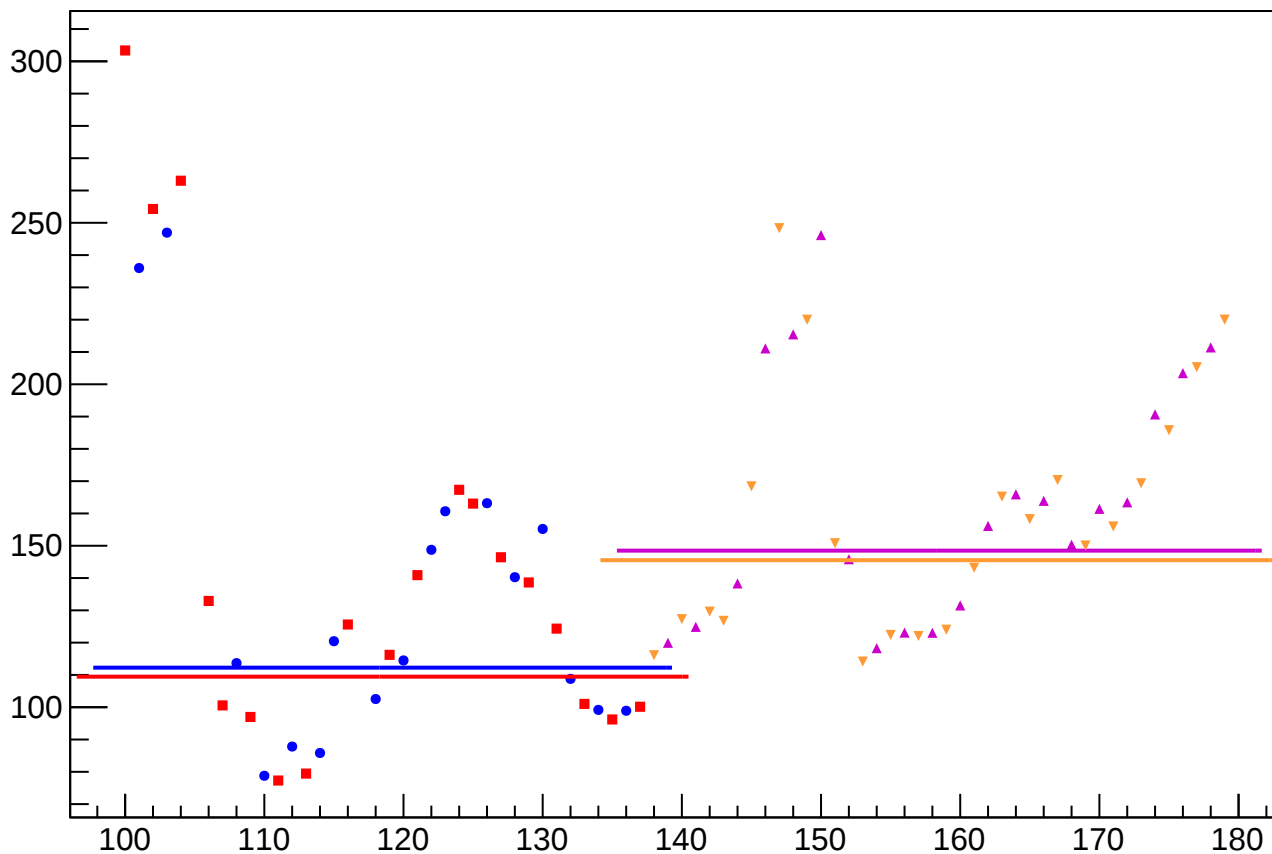
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3855.975+/-29.937 χ^2/NDF : 75274.0/36

Out: -2133.230+/-28.320 χ^2/NDF : 56976.8/40

All: -2946.814+/-20.573 χ^2/NDF : 133998.5/77

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251 $\pm$ 0.033 χ^2/NDF : 1125537.4/16

Left Out: 145.530 $\pm$ 0.026 χ^2/NDF : 1410765.4/21

Right Out: 109.460 $\pm$ 0.031 χ^2/NDF : 1269633.4/18

Left In: 148.487 $\pm$ 0.028 χ^2/NDF : 1332979.8/19

Left: 146.921 $\pm$ 0.019 χ^2/NDF : 2749809.2/41

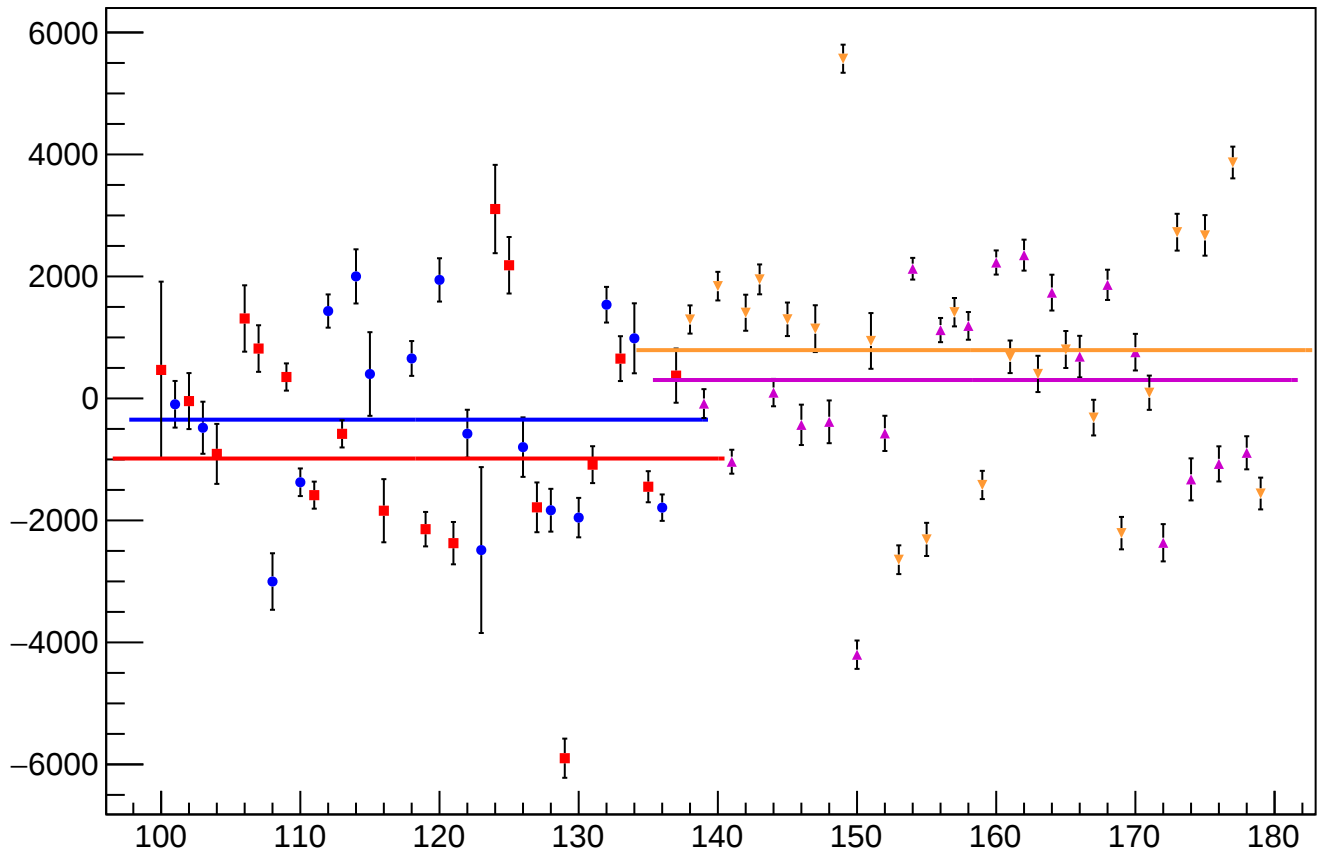
Right: 110.785 $\pm$ 0.023 χ^2/NDF : 2398941.6/35

In: 133.514 $\pm$ 0.021 χ^2/NDF : 3169001.2/36

Out: 130.780 $\pm$ 0.020 χ^2/NDF : 3464593.5/40

All: 132.071 $\pm$ 0.015 χ^2/NDF : 6642398.3/77

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055 ± 83.826 χ^2/NDF : 317.3/16

Left Out: 791.789 ± 57.582 χ^2/NDF : 1371.4/21

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: 539.234 ± 40.070 χ^2/NDF : 2356.4/41

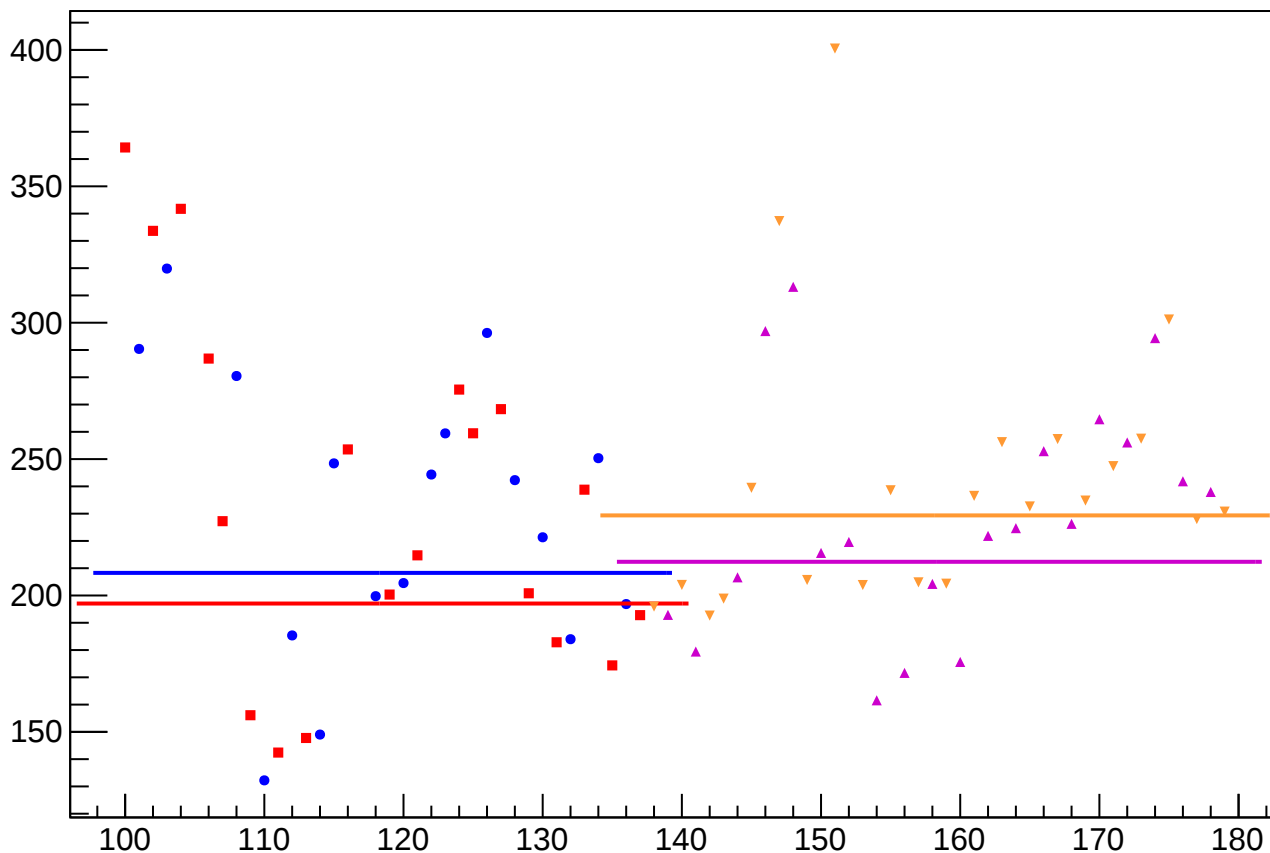
Right: -690.850 ± 56.978 χ^2/NDF : 824.9/35

In: 102.493 ± 46.448 χ^2/NDF : 1306.7/36

Out: 161.642 ± 46.259 χ^2/NDF : 2185.7/40

All: 132.187 ± 32.777 χ^2/NDF : 3493.2/77

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288 $\pm$ 0.059 χ^2/NDF : 698491.0/16

Left Out: 229.360 $\pm$ 0.041 χ^2/NDF : 817465.7/21

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: 220.588 $\pm$ 0.028 χ^2/NDF : 1889491.5/41

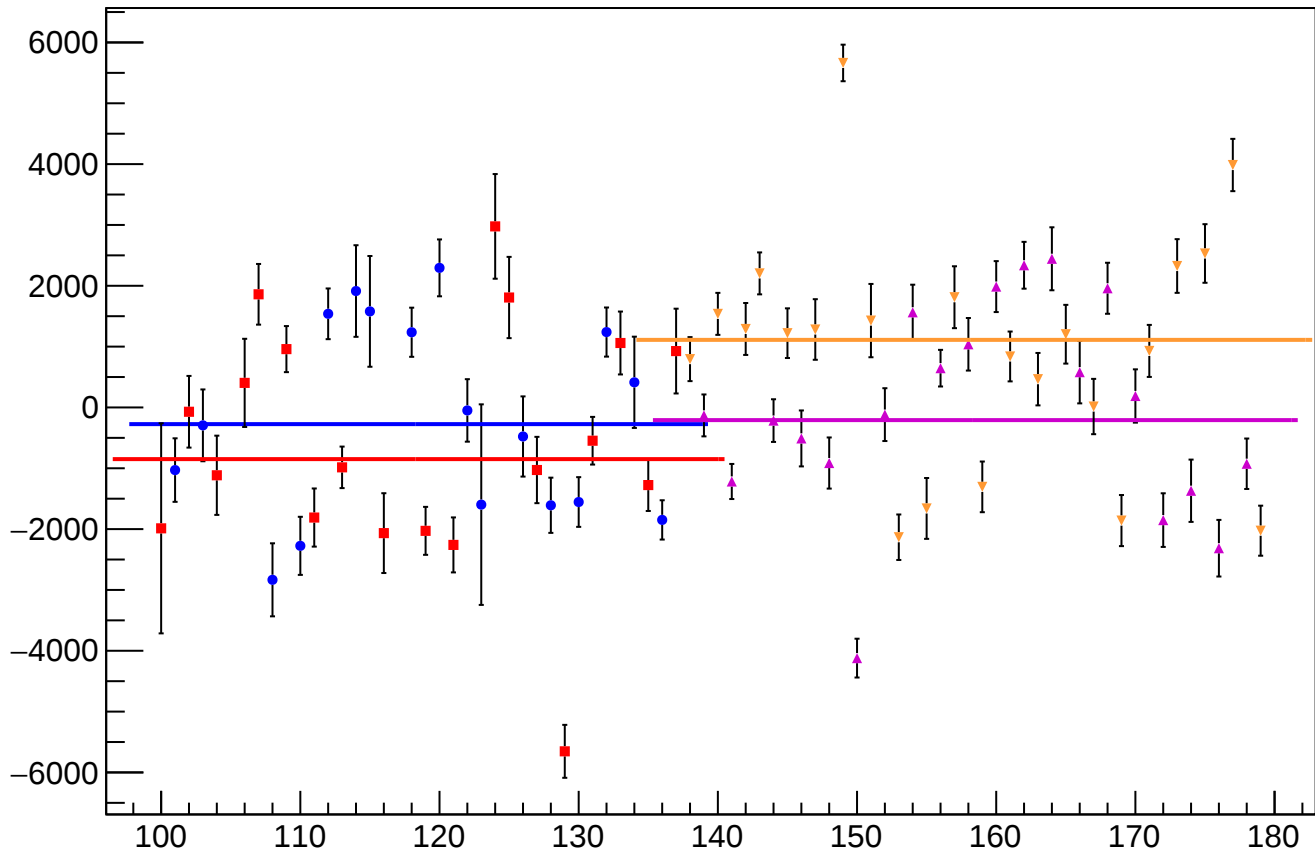
Right: 202.243 $\pm$ 0.040 χ^2/NDF : 1644610.3/35

In: 211.104 $\pm$ 0.033 χ^2/NDF : 1683771.7/36

Out: 217.903 $\pm$ 0.033 χ^2/NDF : 1967534.0/40

All: 214.517 $\pm$ 0.023 χ^2/NDF : 3672823.8/77

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 ± 121.326 $\chi^2/\text{NDF}: 171.6/16$

Left Out: 1110.912 ± 88.753 $\chi^2/\text{NDF}: 561.9/21$

Right Out: -849.413 ± 115.349 $\chi^2/\text{NDF}: 263.3/18$

Left In: -208.253 ± 89.221 $\chi^2/\text{NDF}: 367.5/19$

Left: 454.799 ± 62.923 $\chi^2/\text{NDF}: 1039.3/41$

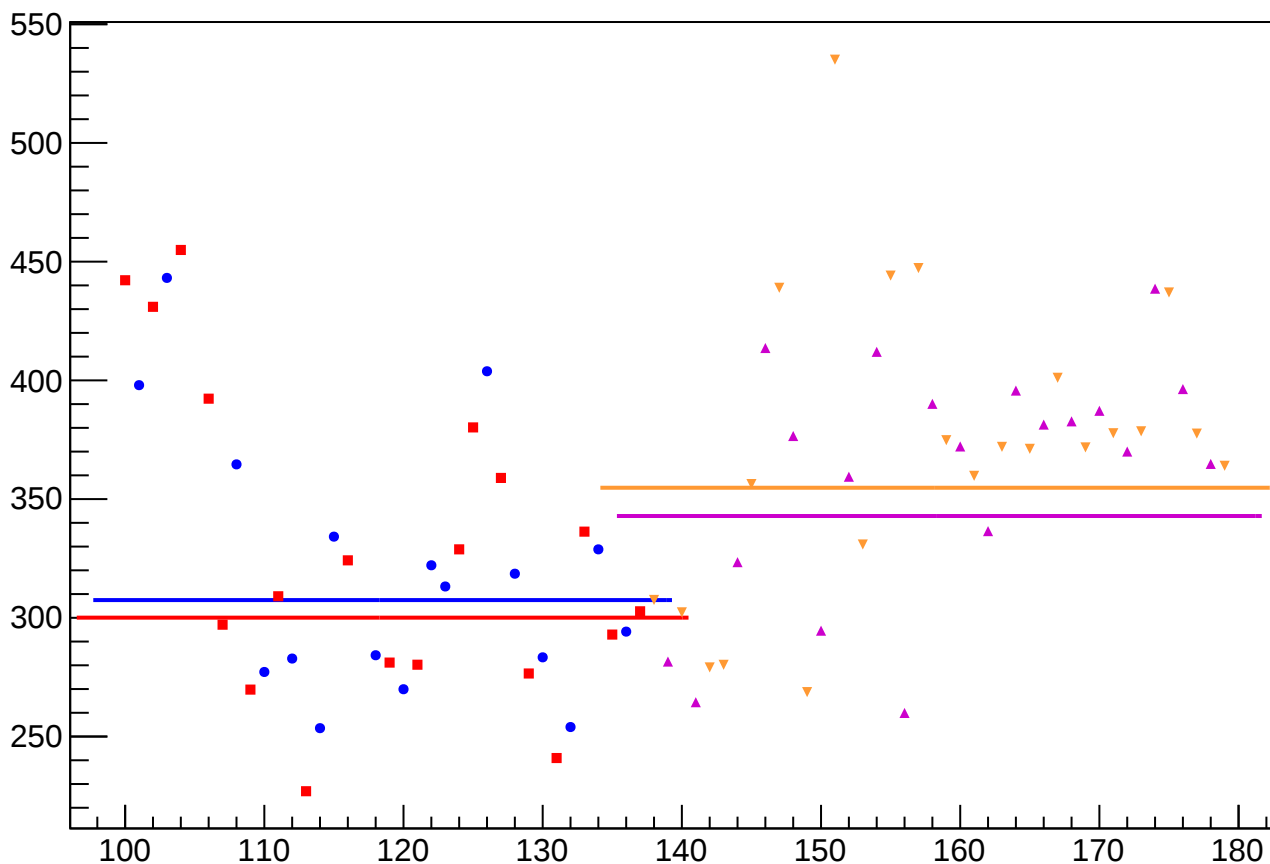
Right: -576.352 ± 83.597 $\chi^2/\text{NDF}: 446.6/35$

In: -231.420 ± 71.878 $\chi^2/\text{NDF}: 539.2/36$

Out: 381.930 ± 70.341 $\chi^2/\text{NDF}: 1006.6/40$

All: 81.883 ± 50.273 $\chi^2/\text{NDF}: 1583.0/77$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468 $\pm$ 0.086 χ^2 /NDF: 323096.7/16

Left Out: 354.782 $\pm$ 0.063 χ^2 /NDF: 886227.5/21

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: 348.861 $\pm$ 0.044 χ^2 /NDF: 1643008.9/41

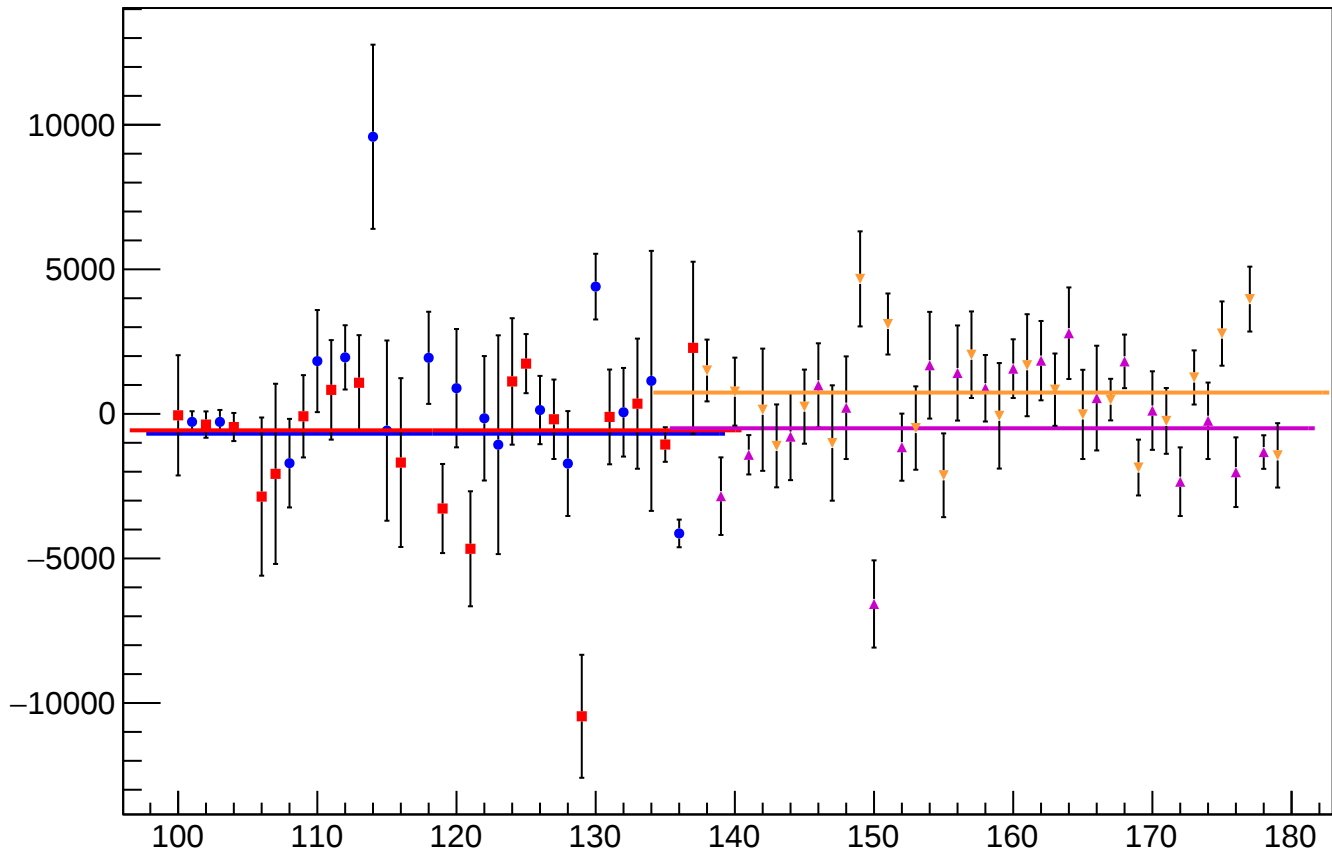
Right: 303.582 $\pm$ 0.059 χ^2 /NDF: 817401.9/35

In: 330.449 $\pm$ 0.051 χ^2 /NDF: 1172539.6/36

Out: 334.436 $\pm$ 0.050 χ^2 /NDF: 1659263.3/40

All: 332.486 $\pm$ 0.036 χ^2 /NDF: 2834946.8/77

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056+/-210.341 χ^2/NDF : 97.4/16

Left Out: 737.619+/-259.502 χ^2/NDF :43.9/21

Right Out: -568.651+/-243.251 χ^2/NDF : 39.7/18

Left In: -497.654+/-254.921 χ^2/NDF :51.0/19

Left: 108.984+/-181.854 χ^2/NDF : 106.4/41

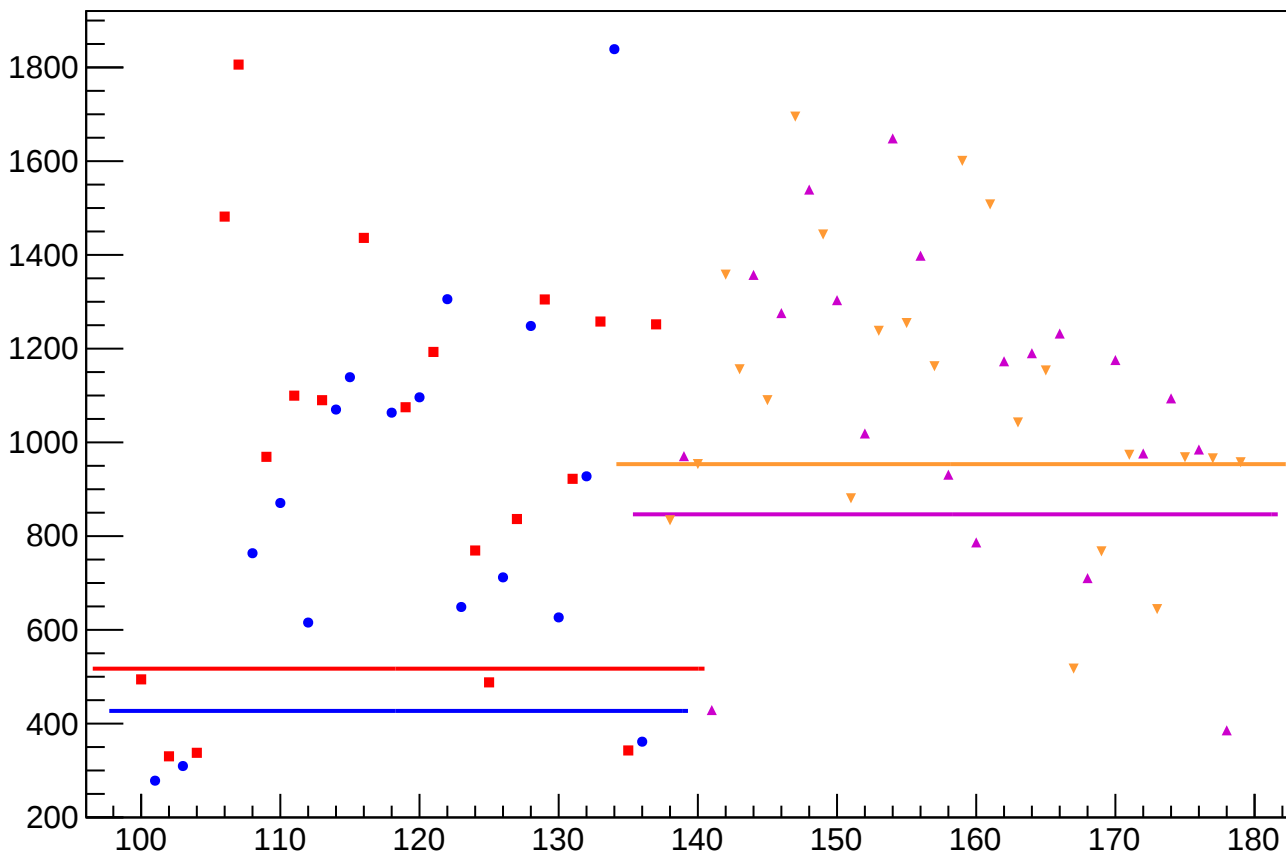
Right: -635.255+/-159.106 χ^2/NDF : 137.2/35

In: -609.148+/-162.242 χ^2/NDF :148.7/36

Out: 42.305+/-177.472 χ^2/NDF :97.1/40

All: -312.569+/-119.745 χ^2/NDF : 253.1/77

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079+/-0.149 χ^2/NDF : 2865678.7/16

Left Out: 953.588+/-0.183 χ^2/NDF : 2349080.0/21

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: 899.094+/-0.129 χ^2/NDF : 6687852.3/41

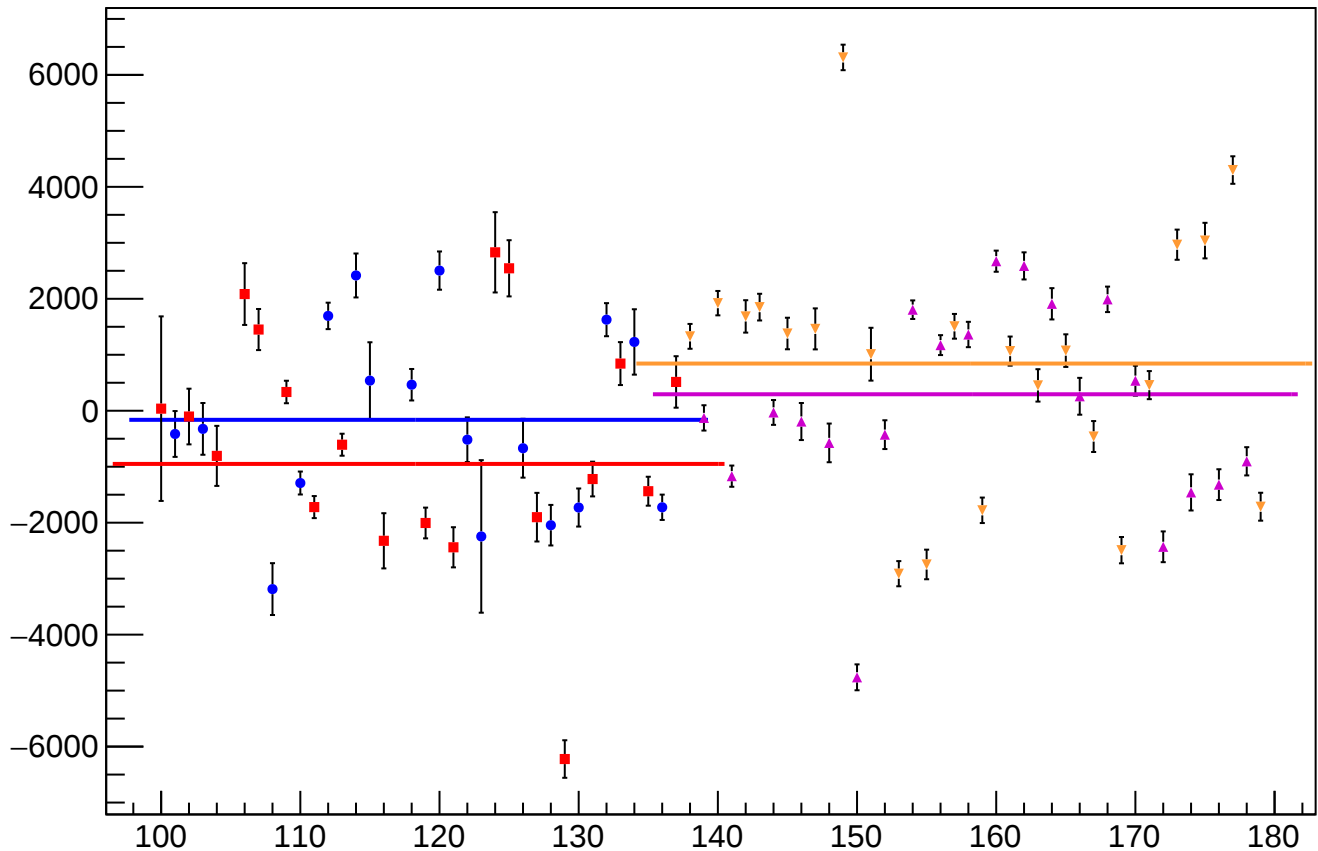
Right: 465.650+/-0.113 χ^2/NDF : 6627982.5/35

In: 596.970+/-0.115 χ^2/NDF : 10252296.8/36

Out: 721.321+/-0.125 χ^2/NDF : 8964242.7/40

All: 653.582+/-0.085 χ^2/NDF : 19751428.4/77

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333 ± 82.350 χ^2/NDF : 387.6/16

Left Out: 843.000 ± 55.013 χ^2/NDF : 1884.2/21

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: 557.462 ± 38.096 χ^2/NDF : 3147.5/41

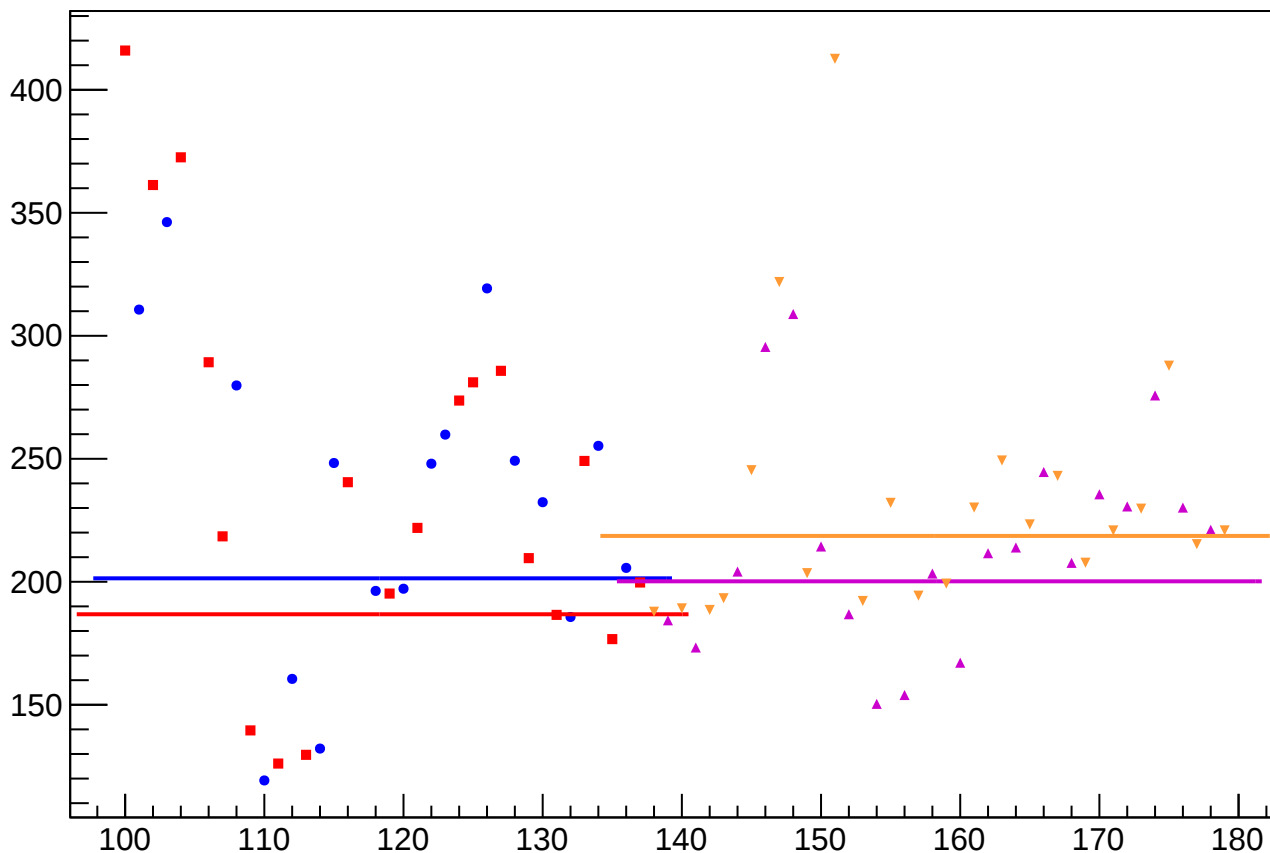
Right: -592.238 ± 55.504 χ^2/NDF : 977.3/35

In: 161.289 ± 44.453 χ^2/NDF : 1620.8/36

Out: 217.193 ± 44.386 χ^2/NDF : 2794.8/40

All: 189.282 ± 31.409 χ^2/NDF : 4416.4/77

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409+/-0.058 χ^2/NDF : 1056022.1/16

Left Out: 218.650+/-0.039 χ^2/NDF :860067.0/21

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: 209.044+/-0.027 χ^2/NDF : 2035998.5/41

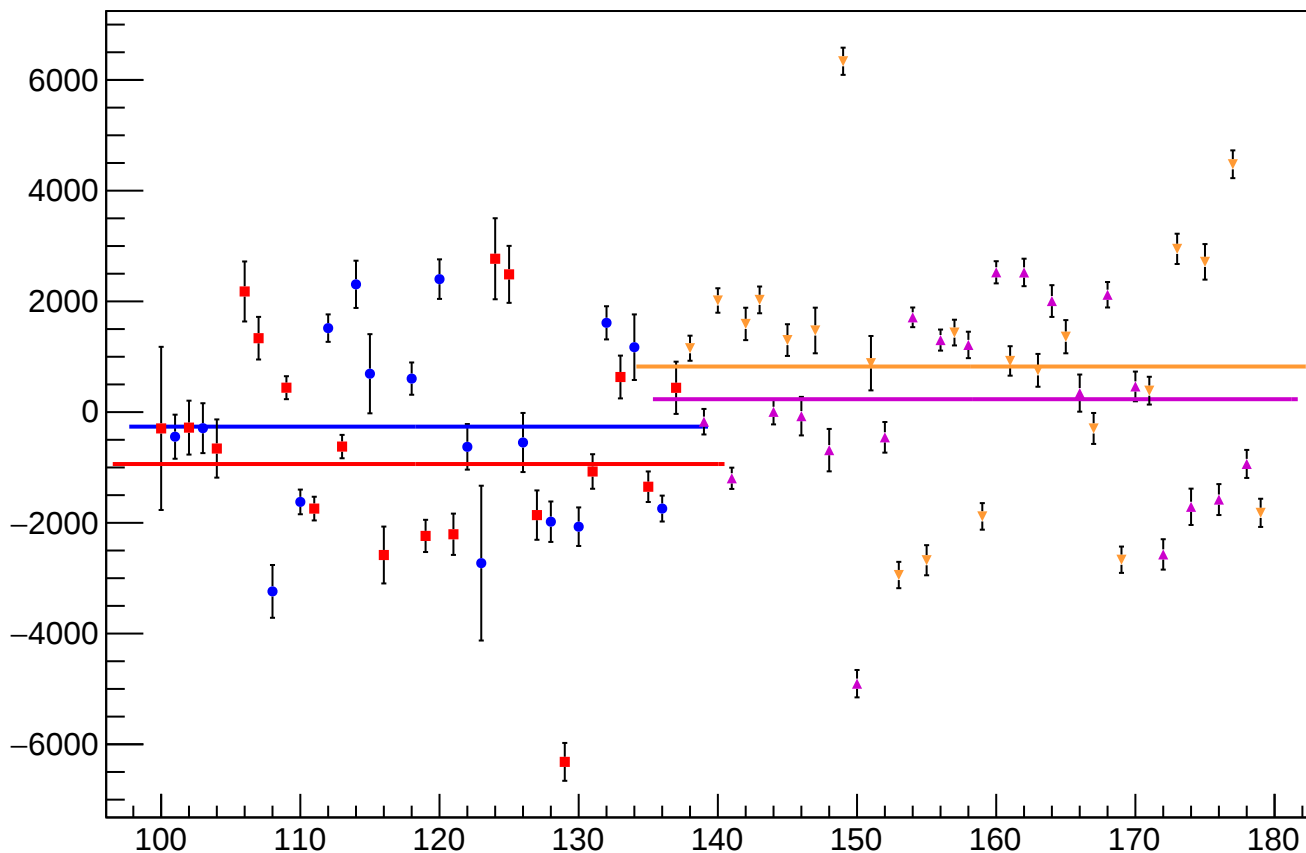
Right: 193.435+/-0.039 χ^2/NDF : 2483546.7/35

In: 200.547+/-0.031 χ^2/NDF :2115080.8/36

Out: 207.533+/-0.031 χ^2/NDF :2487238.6/40

All: 204.045+/-0.022 χ^2/NDF : 4627058.8/77

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324 $\pm$ 85.433 χ^2/NDF : 368.7/16

Left Out: 823.519 $\pm$ 56.616 χ^2/NDF :1775.2/21

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: 518.943 $\pm$ 39.390 χ^2/NDF : 2977.7/41

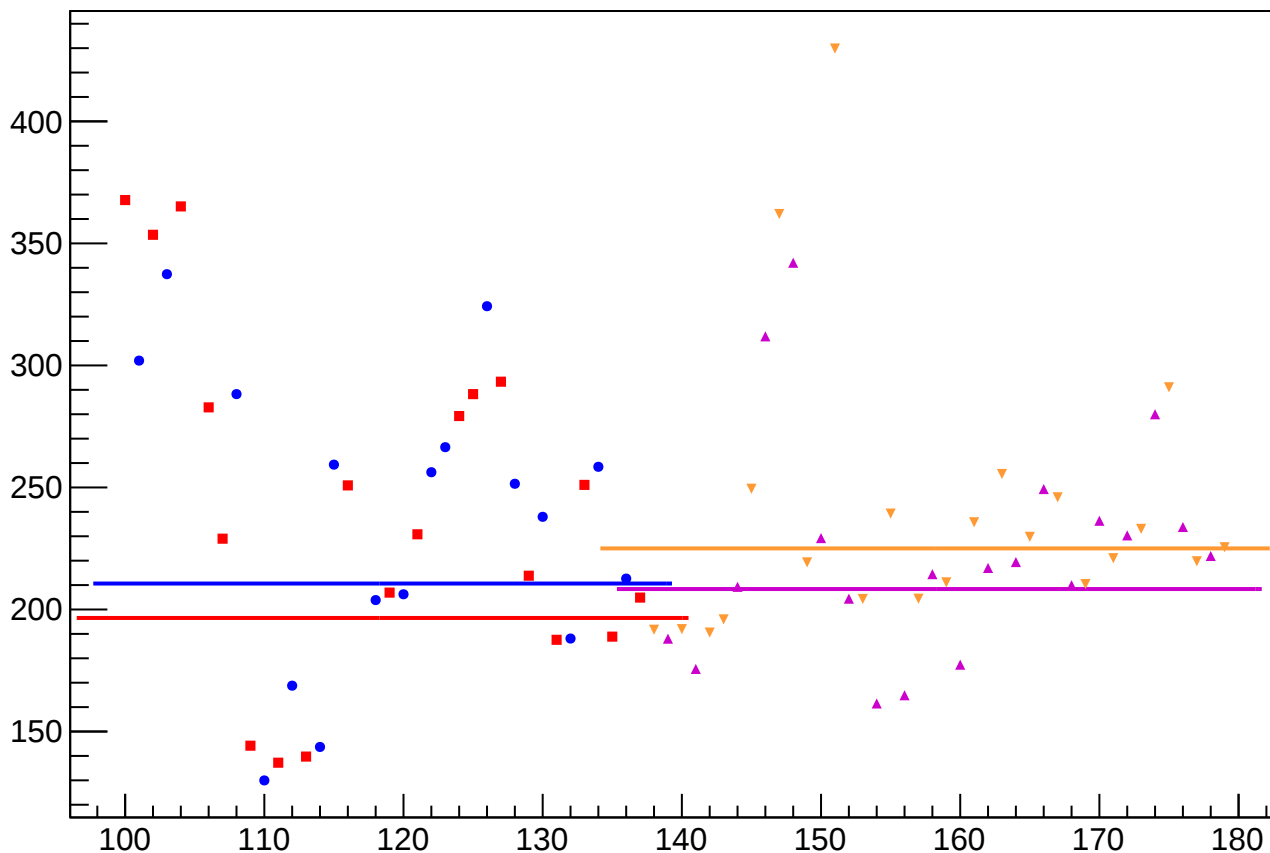
Right: -628.795 $\pm$ 57.777 χ^2/NDF : 924.5/35

In: 88.625 $\pm$ 46.148 χ^2/NDF :1539.0/36

Out: 220.208 $\pm$ 45.906 χ^2/NDF :2628.6/40

All: 154.762 $\pm$ 32.546 χ^2/NDF : 4171.7/77

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 225.030+/-0.040 χ^2/NDF : 903476.4/21

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: 216.440+/-0.028 χ^2/NDF : 1982081.9/41

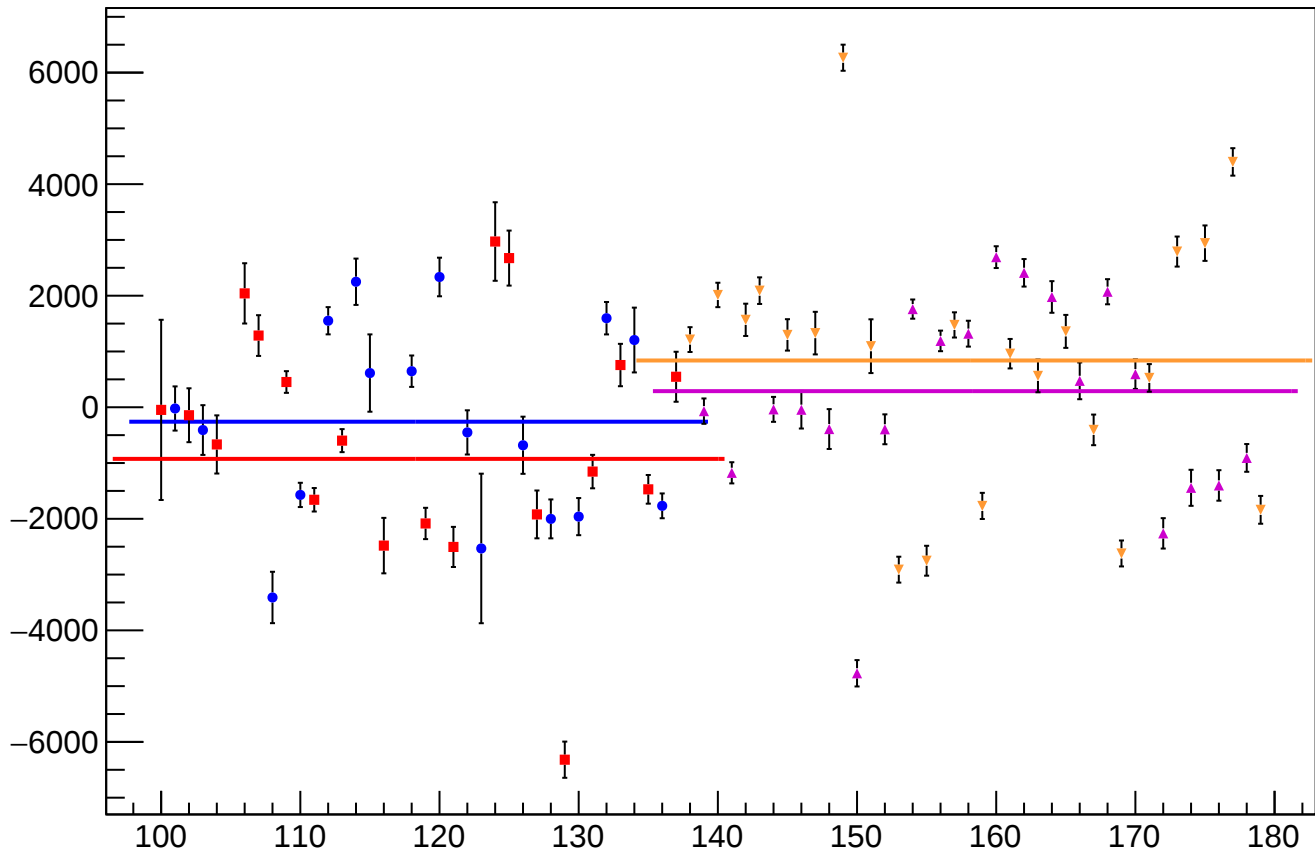
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 209.040+/-0.033 χ^2/NDF : 1866147.7/36

Out: 215.266+/-0.032 χ^2/NDF : 2282191.9/40

All: 212.169+/-0.023 χ^2/NDF : 4166640.0/77

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139 ± 82.802 $\chi^2/\text{NDF}: 391.2/16$

Left Out: 838.487 ± 55.499 $\chi^2/\text{NDF}: 1849.3/21$

Right Out: -925.534 ± 75.503 $\chi^2/\text{NDF}: 581.9/18$

Left In: 288.827 ± 53.599 $\chi^2/\text{NDF}: 1152.4/19$

Left: 554.087 ± 38.554 $\chi^2/\text{NDF}: 3052.5/41$

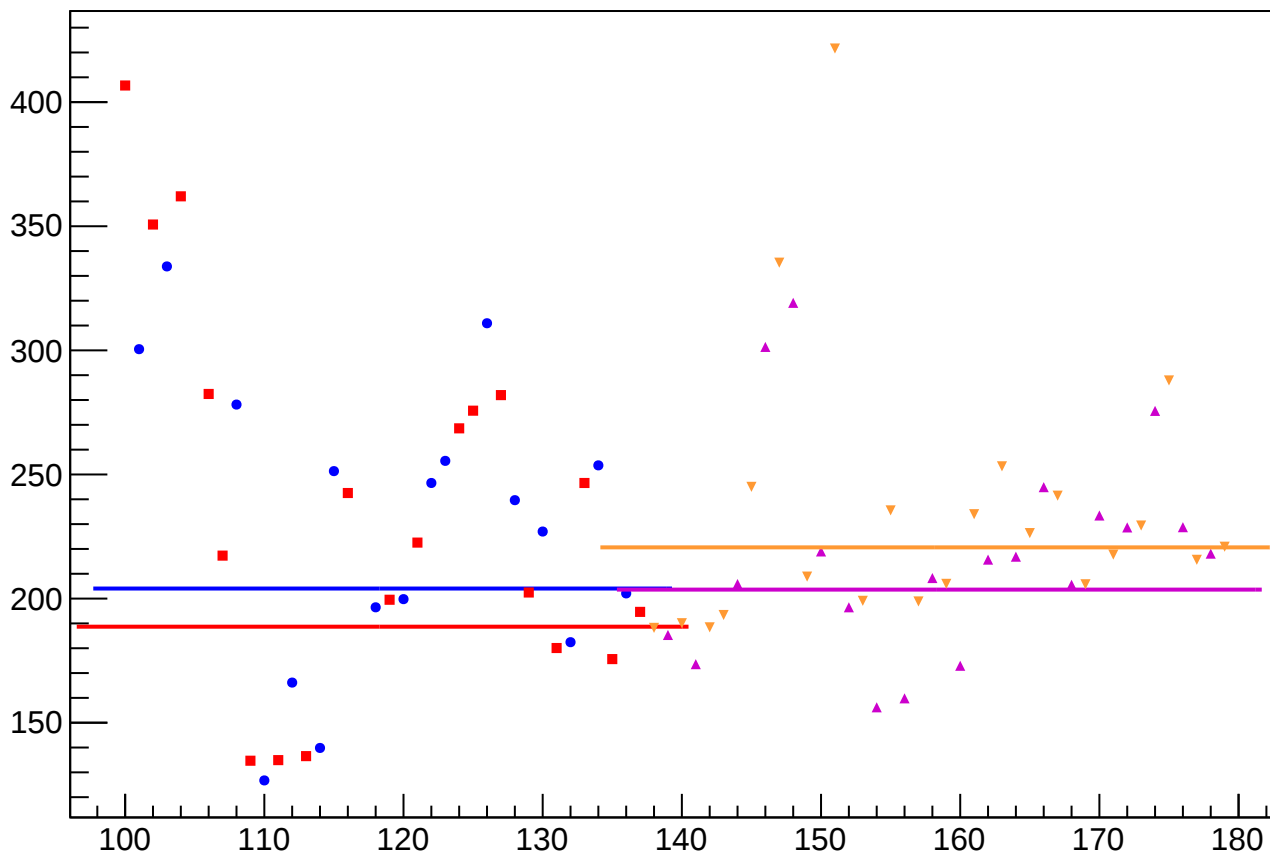
Right: -622.995 ± 55.791 $\chi^2/\text{NDF}: 1008.5/35$

In: 127.021 ± 44.995 $\chi^2/\text{NDF}: 1574.5/36$

Out: 219.713 ± 44.718 $\chi^2/\text{NDF}: 2785.5/40$

All: 173.653 ± 31.718 $\chi^2/\text{NDF}: 4362.2/77$

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 220.634+/-0.039 χ^2/NDF : 873573.0/21

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: 211.830+/-0.027 χ^2/NDF : 1942021.2/41

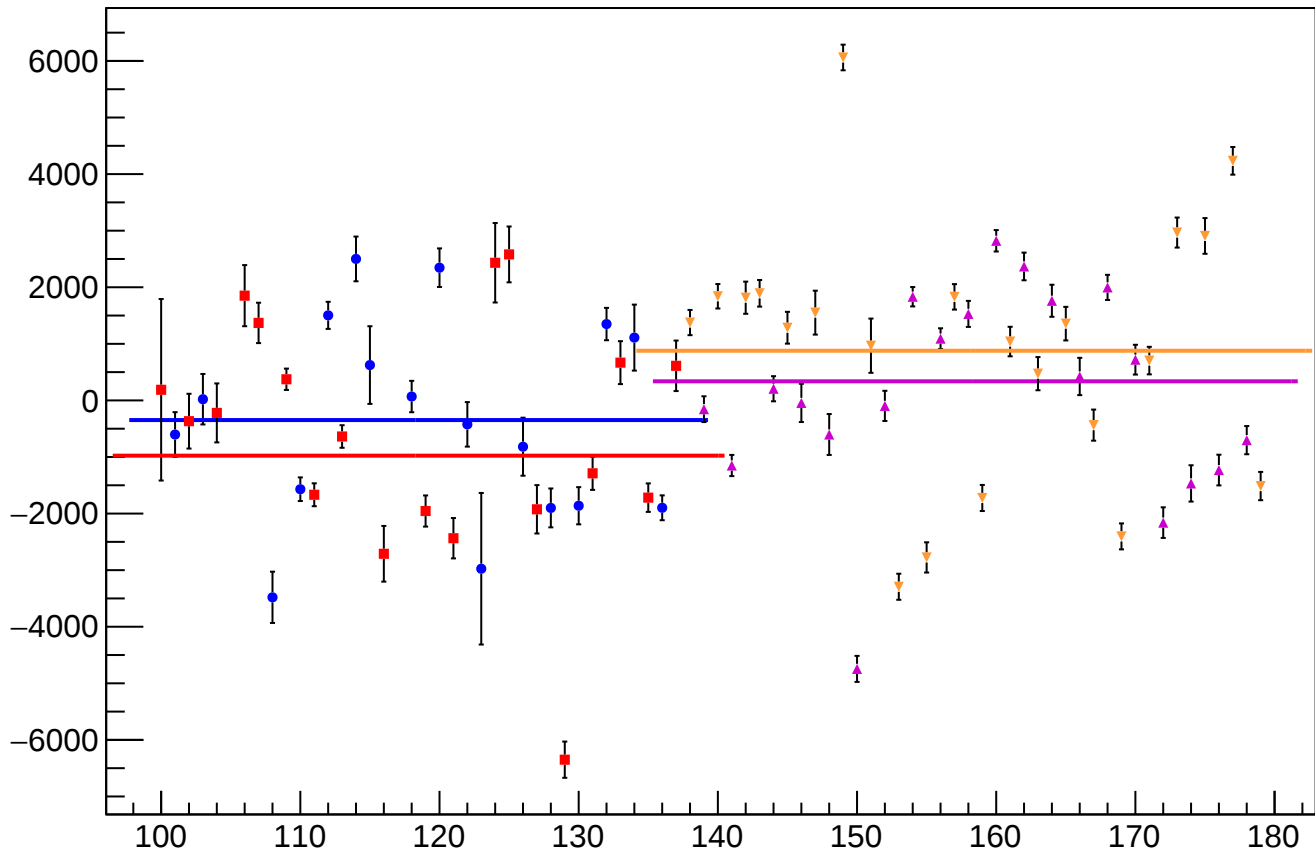
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 203.746+/-0.032 χ^2/NDF : 1839630.4/36

Out: 209.426+/-0.032 χ^2/NDF : 2357239.4/40

All: 206.603+/-0.022 χ^2/NDF : 4212902.3/77

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240 ± 81.318 χ^2/NDF : 399.1/16

Left Out: 878.074 ± 55.017 χ^2/NDF : 1859.8/21

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: 598.454 ± 38.215 χ^2/NDF : 3088.7/41

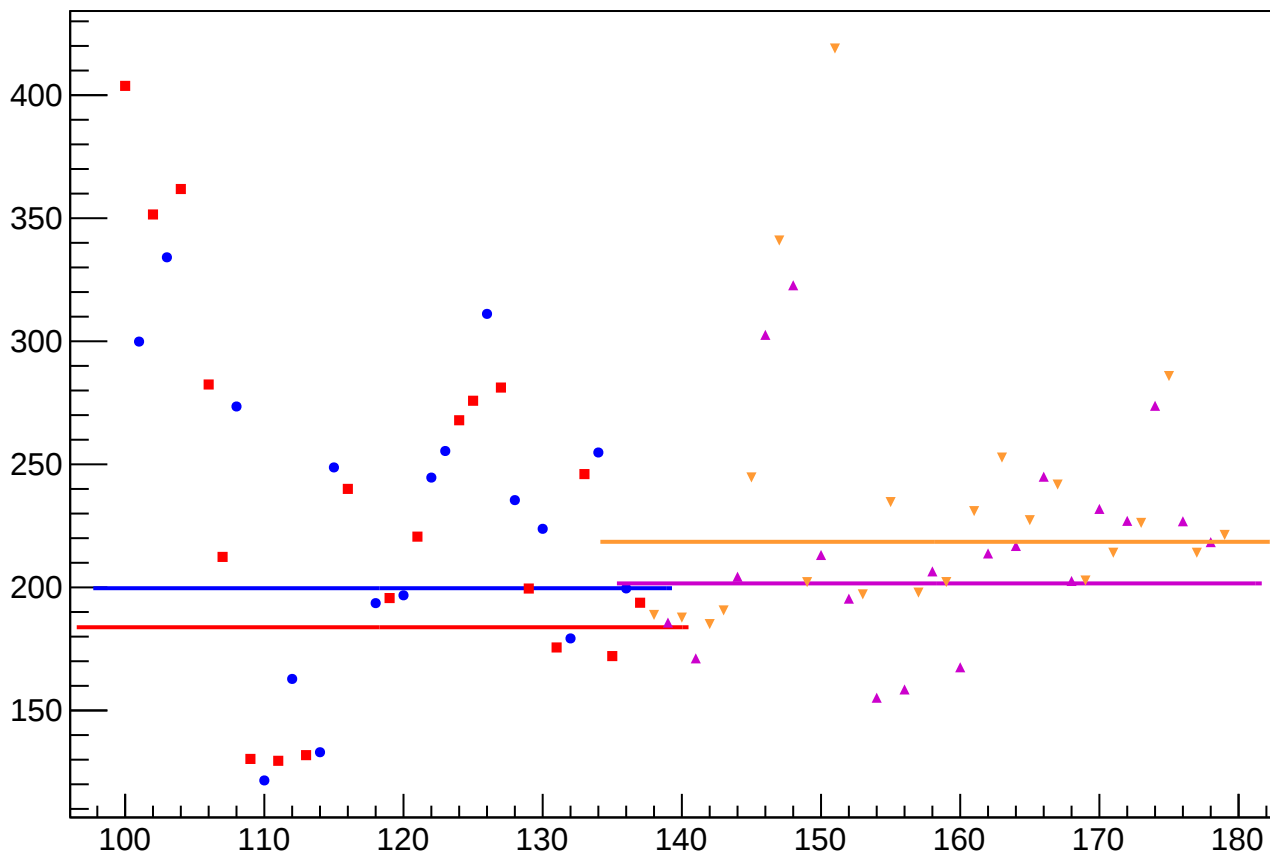
Right: -691.802 ± 54.685 χ^2/NDF : 1017.5/35

In: 132.894 ± 44.472 χ^2/NDF : 1627.8/36

Out: 216.675 ± 44.128 χ^2/NDF : 2850.7/40

All: 175.110 ± 31.324 χ^2/NDF : 4480.3/77

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669+/-0.058 χ^2/NDF : 943155.1/16

Left Out: 218.523+/-0.039 χ^2/NDF : 911399.4/21

Right Out: 183.808+/-0.052 χ^2/NDF : 1349625.1/18

Left In: 201.622+/-0.038 χ^2/NDF : 1013065.5/19

Left: 209.776+/-0.027 χ^2/NDF : 2022142.4/41

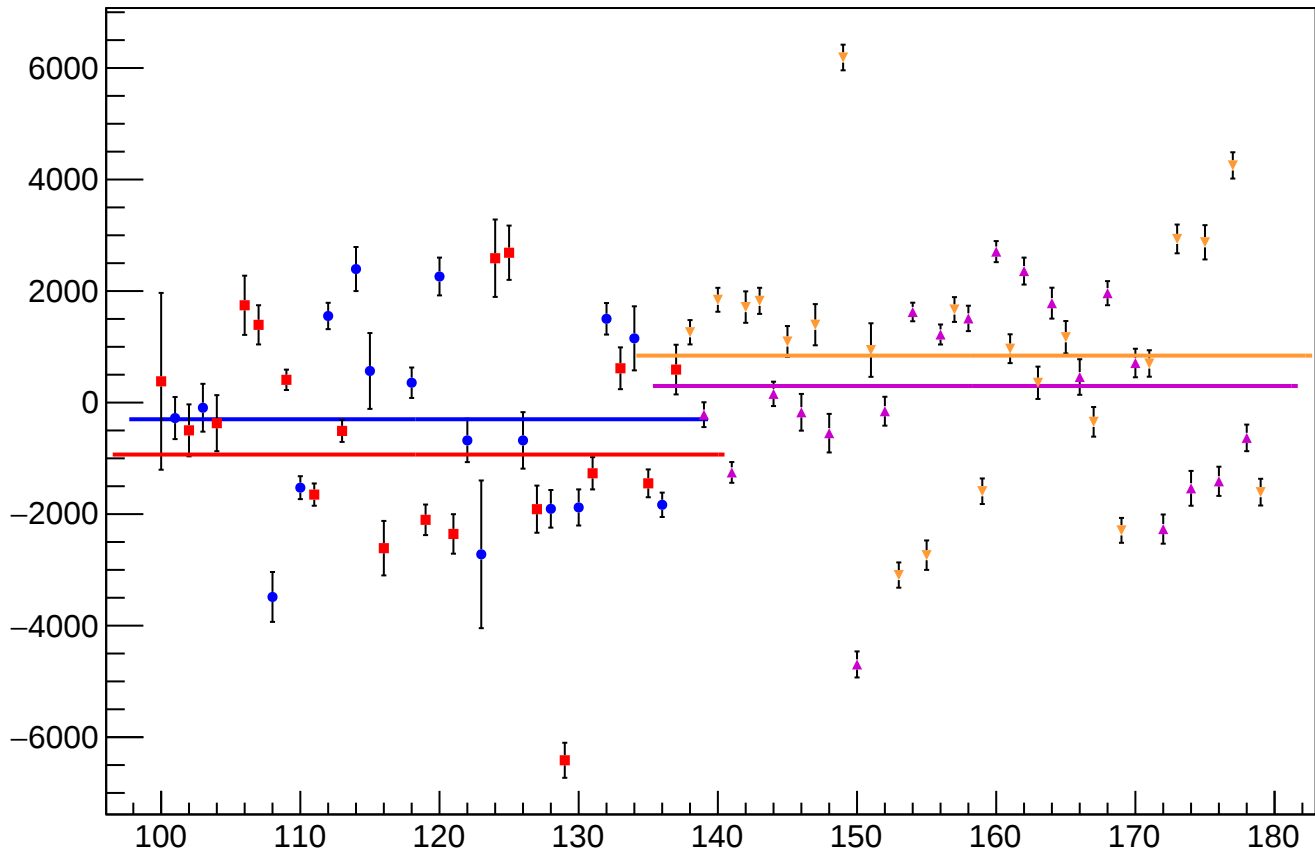
Right: 190.981+/-0.039 χ^2/NDF : 2334457.4/35

In: 201.038+/-0.031 χ^2/NDF : 1957029.4/36

Out: 206.141+/-0.031 χ^2/NDF : 2545036.8/40

All: 203.610+/-0.022 χ^2/NDF : 4515336.4/77

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Left: 559.776 $\pm$ 37.507 χ^2/NDF : 3081.7/41

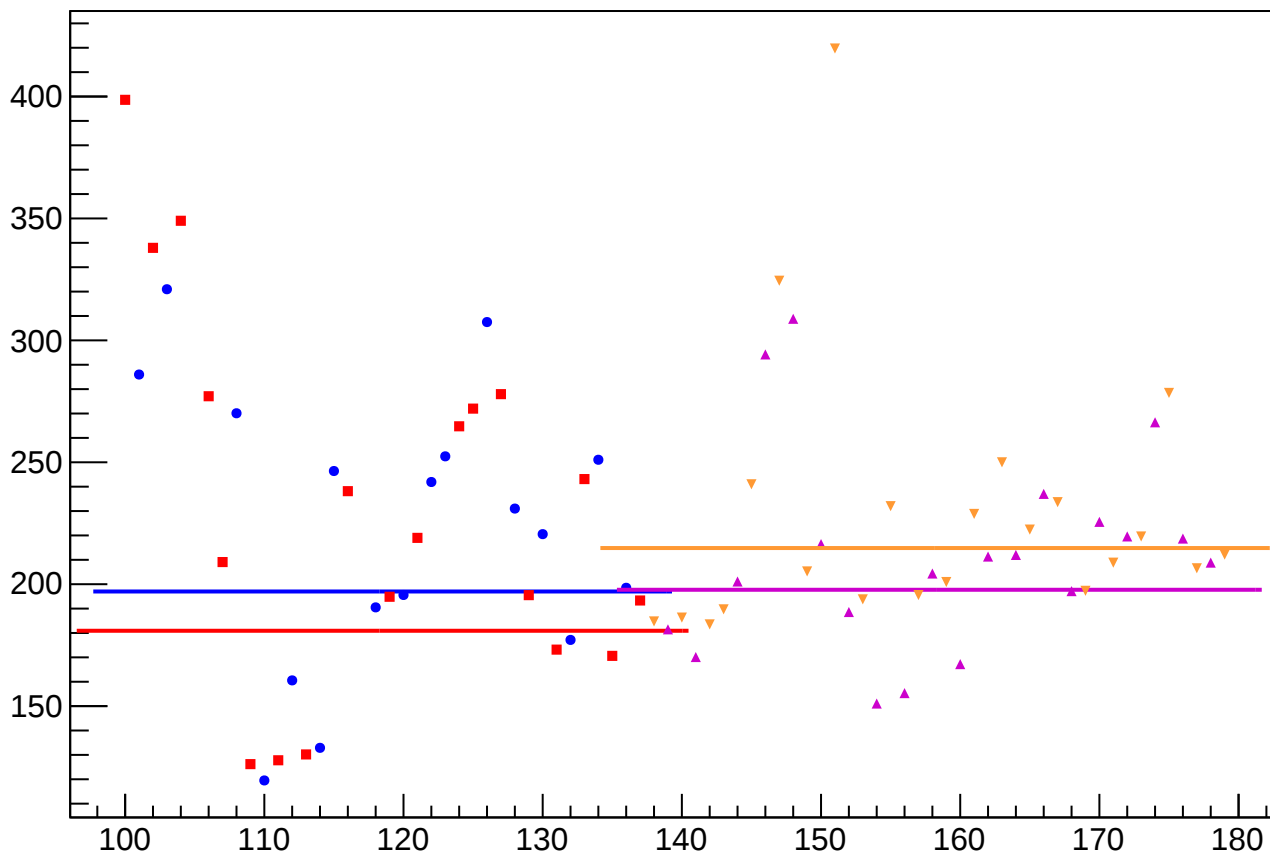
Right: -646.004 $\pm$ 53.873 χ^2/NDF : 1055.6/35

In: 120.520 $\pm$ 43.670 χ^2/NDF : 1621.4/36

Out: 211.143 $\pm$ 43.395 χ^2/NDF : 2851.1/40

All: 166.117 $\pm$ 30.782 χ^2/NDF : 4474.7/77

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 214.831+/-0.038 χ^2/NDF :880272.8/21

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: 205.953+/-0.027 χ^2/NDF : 1948774.2/41

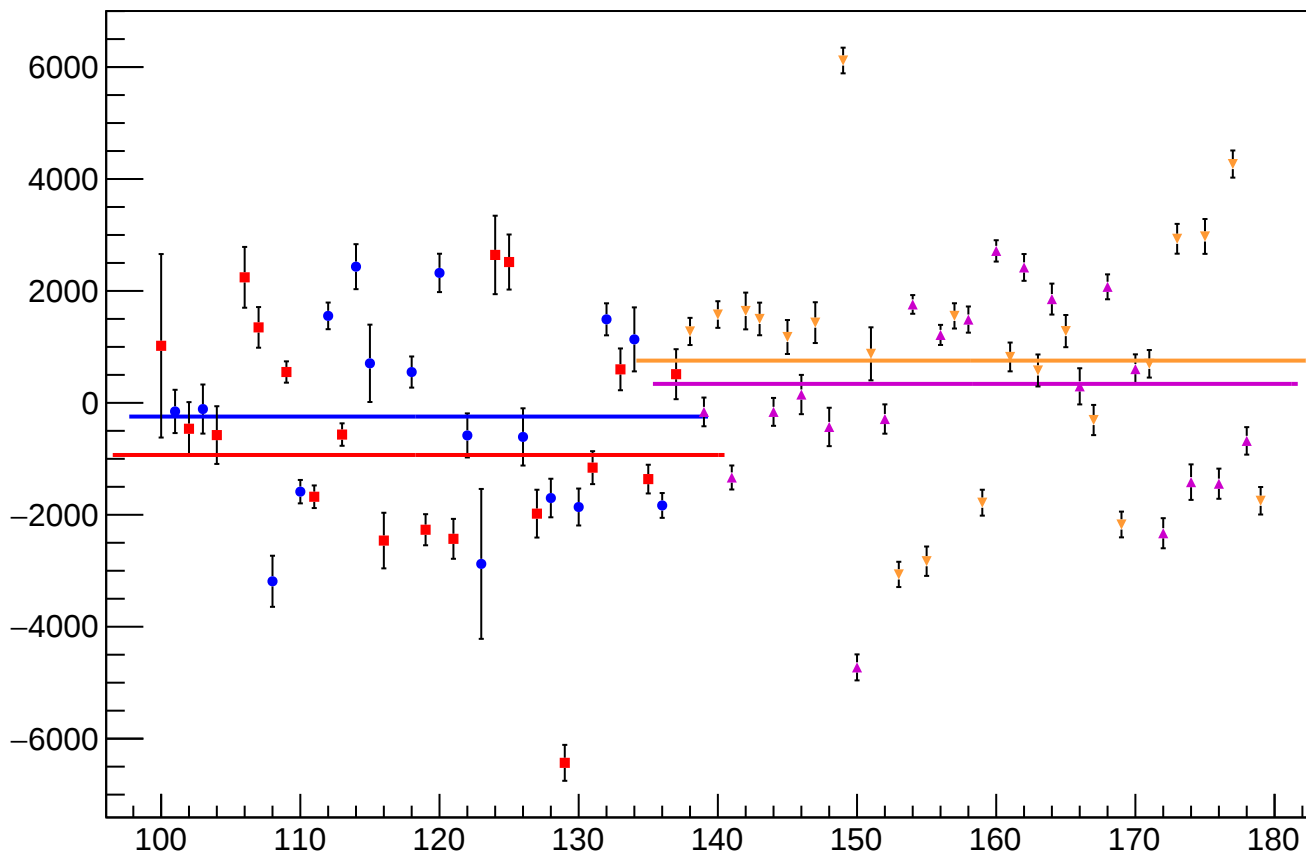
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 197.508+/-0.031 χ^2/NDF :1876581.2/36

Out: 202.761+/-0.031 χ^2/NDF :2506126.2/40

All: 200.151+/-0.022 χ^2/NDF : 4397264.3/77

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925+/-81.395 χ^2/NDF : 391.4/16

Left Out: 755.057+/-56.212 χ^2/NDF :1799.9/21

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: 538.367+/-38.904 χ^2/NDF : 3016.2/41

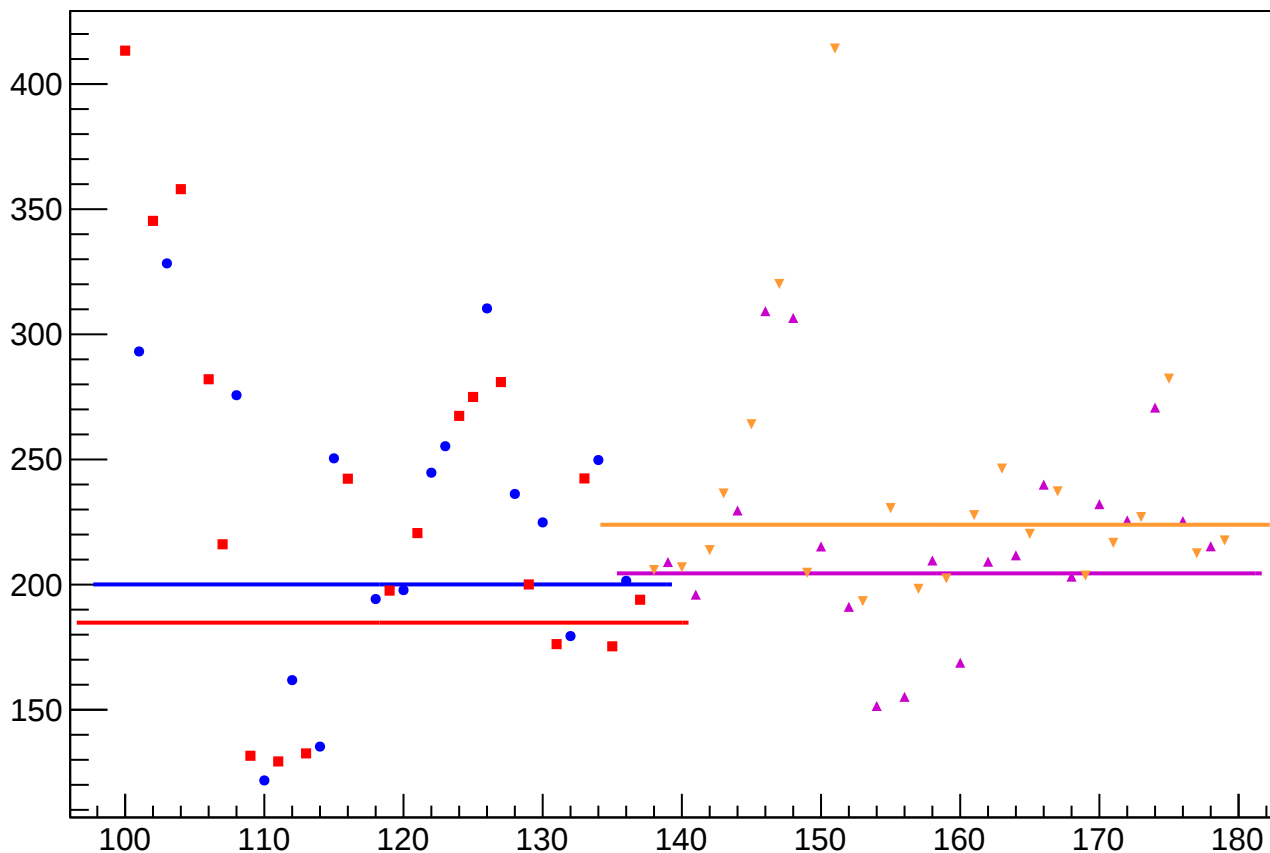
Right: -619.742+/-54.837 χ^2/NDF : 1040.0/35

In: 161.096+/-44.940 χ^2/NDF :1615.0/36

Out: 140.213+/-44.807 χ^2/NDF :2737.8/40

All: 150.624+/-31.730 χ^2/NDF : 4352.9/77

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 223.919+/-0.040 χ^2/NDF : 730344.4/21

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: 213.799+/-0.028 χ^2/NDF : 1830904.9/41

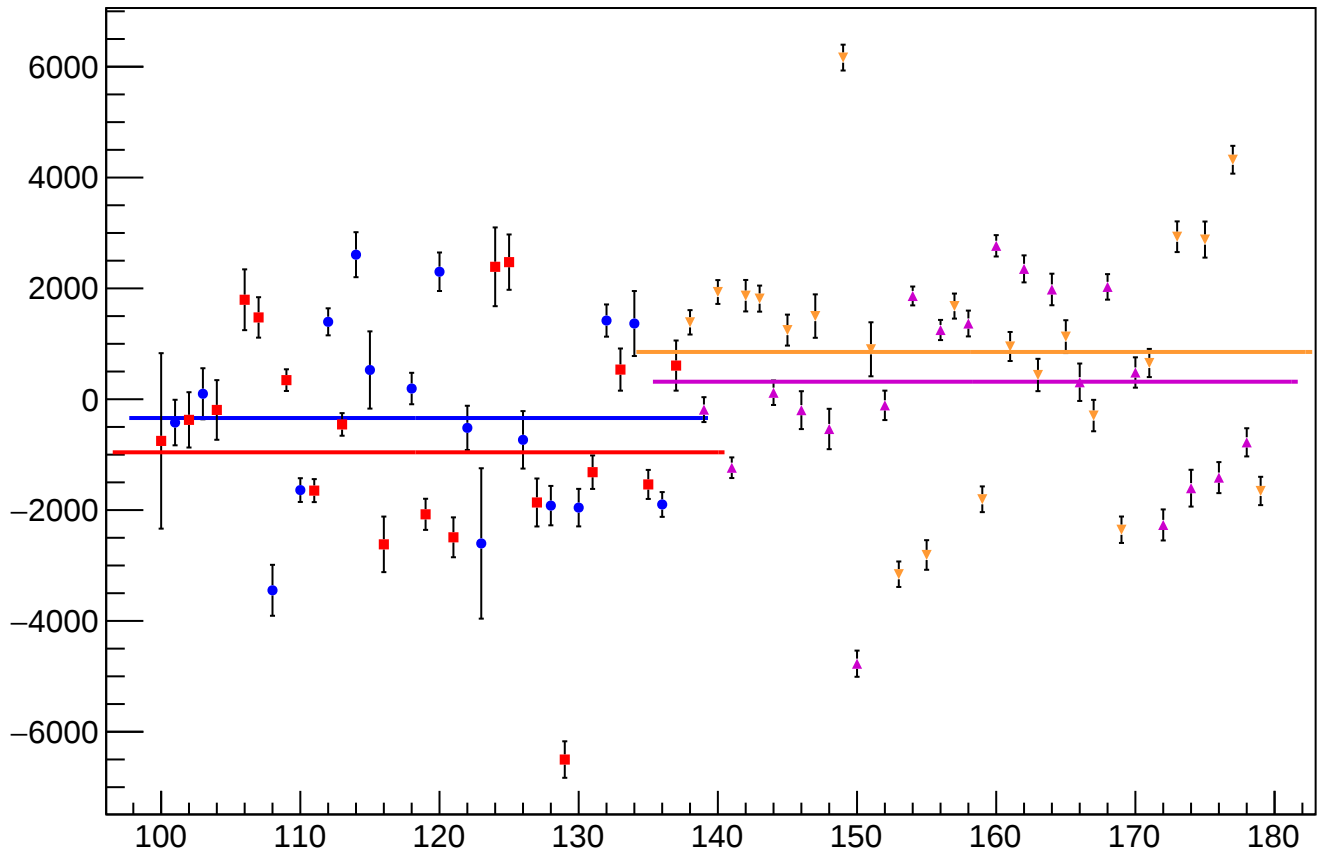
Right: 191.739+/-0.039 χ^2/NDF : 2275022.2/35

In: 203.148+/-0.032 χ^2/NDF : 1898534.8/36

Out: 209.659+/-0.032 χ^2/NDF : 2401647.6/40

All: 206.413+/-0.022 χ^2/NDF : 4321232.7/77

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966 ± 83.123 $\chi^2/\text{NDF}: 389.5/16$

Left Out: 853.128 ± 55.680 $\chi^2/\text{NDF}: 1803.7/21$

Right Out: -957.615 ± 75.749 $\chi^2/\text{NDF}: 570.3/18$

Left In: 316.098 ± 53.641 $\chi^2/\text{NDF}: 1174.7/19$

Left: 574.602 ± 38.631 $\chi^2/\text{NDF}: 3026.7/41$

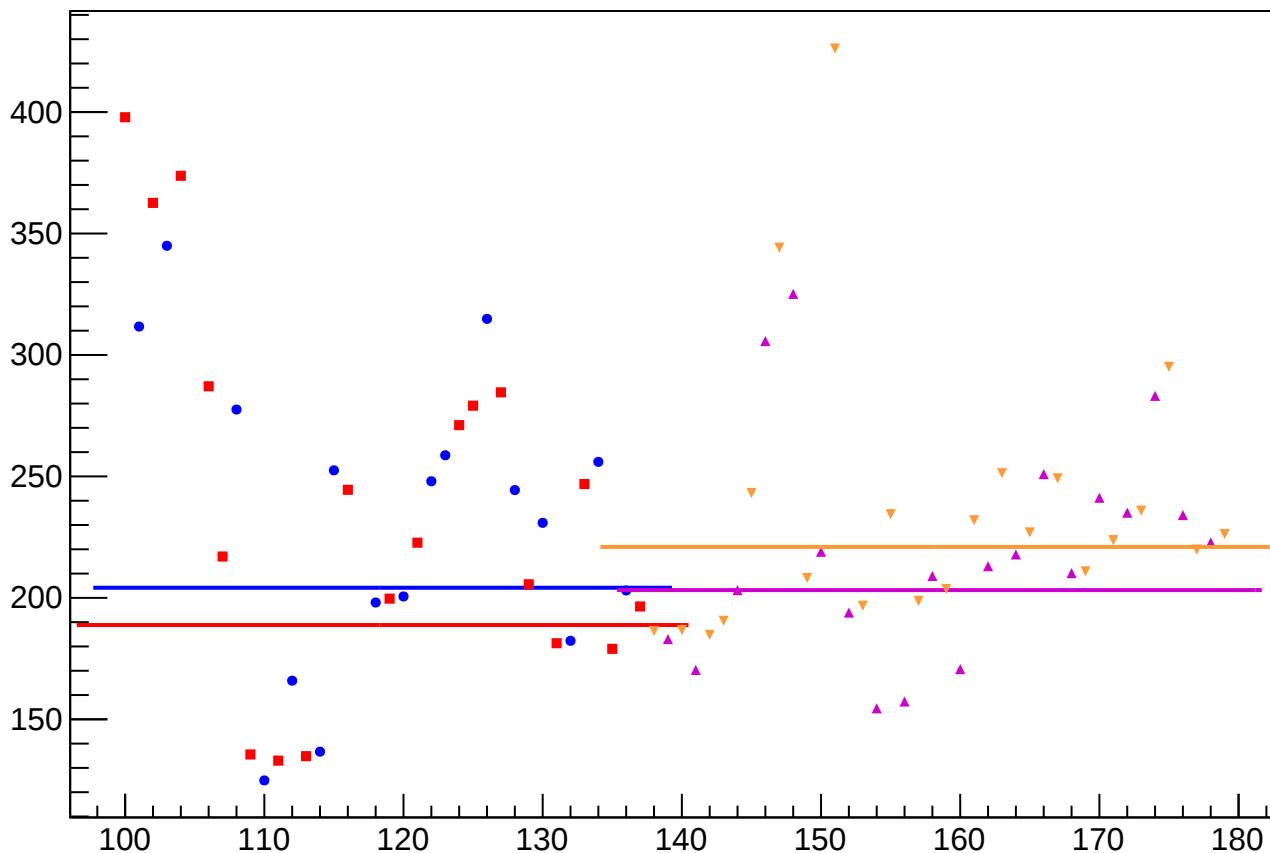
Right: -676.943 ± 55.988 $\chi^2/\text{NDF}: 990.0/35$

In: 123.504 ± 45.071 $\chi^2/\text{NDF}: 1608.0/36$

Out: 217.956 ± 44.863 $\chi^2/\text{NDF}: 2745.0/40$

All: 170.948 ± 31.796 $\chi^2/\text{NDF}: 4355.2/77$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 220.970+/-0.039 χ^2/NDF : 954531.1/21

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: 211.759+/-0.027 χ^2/NDF : 2169929.1/41

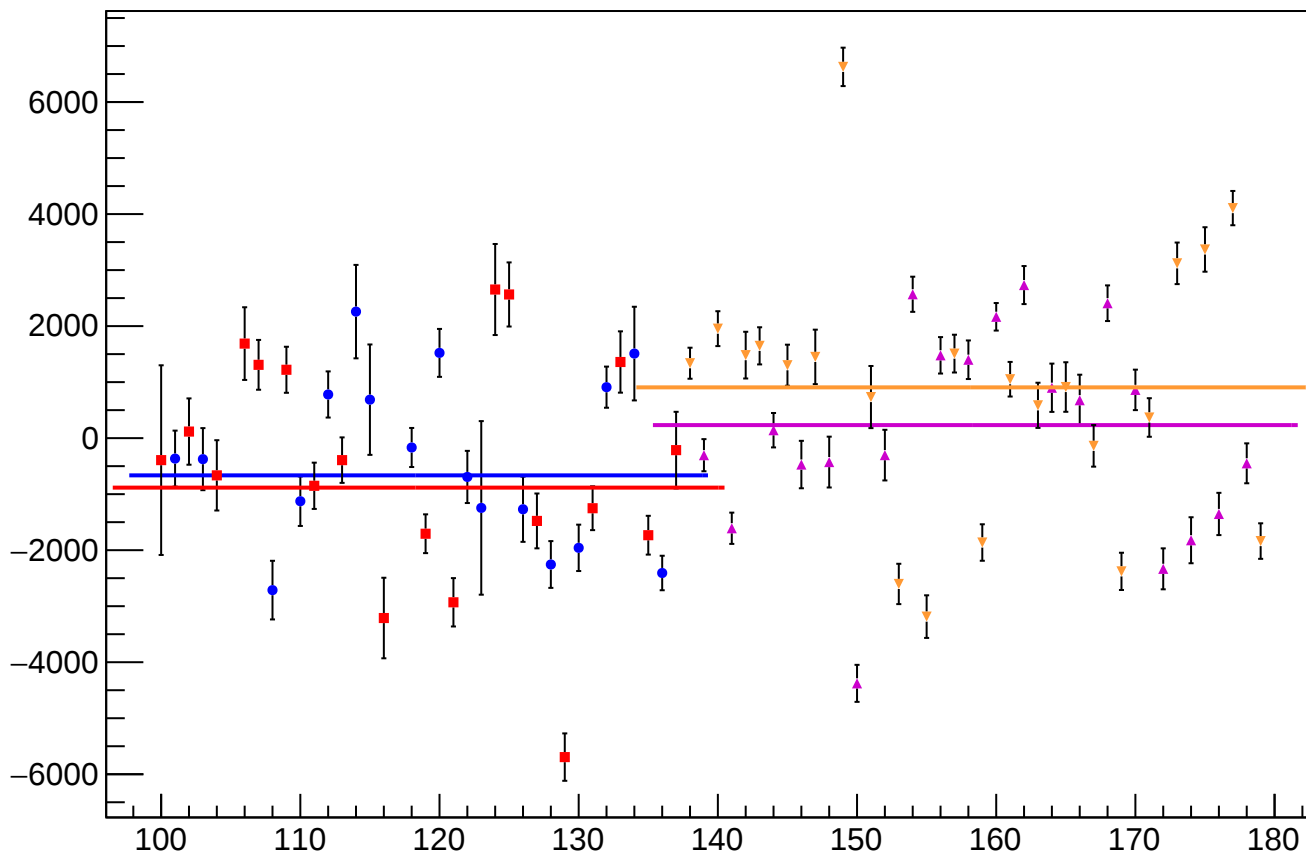
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 203.494+/-0.032 χ^2/NDF : 2057493.2/36

Out: 209.693+/-0.032 χ^2/NDF : 2503313.9/40

All: 206.608+/-0.022 χ^2/NDF : 4579811.4/77

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383+/-113.949 χ^2/NDF : 154.3/16

Left Out: 906.542+/-75.563 χ^2/NDF : 954.8/21

Right Out: -883.255+/-110.875 χ^2/NDF : 320.1/18

Left In: 232.937+/-76.837 χ^2/NDF : 594.4/19

Left: 575.371+/-53.876 χ^2/NDF : 1588.3/41

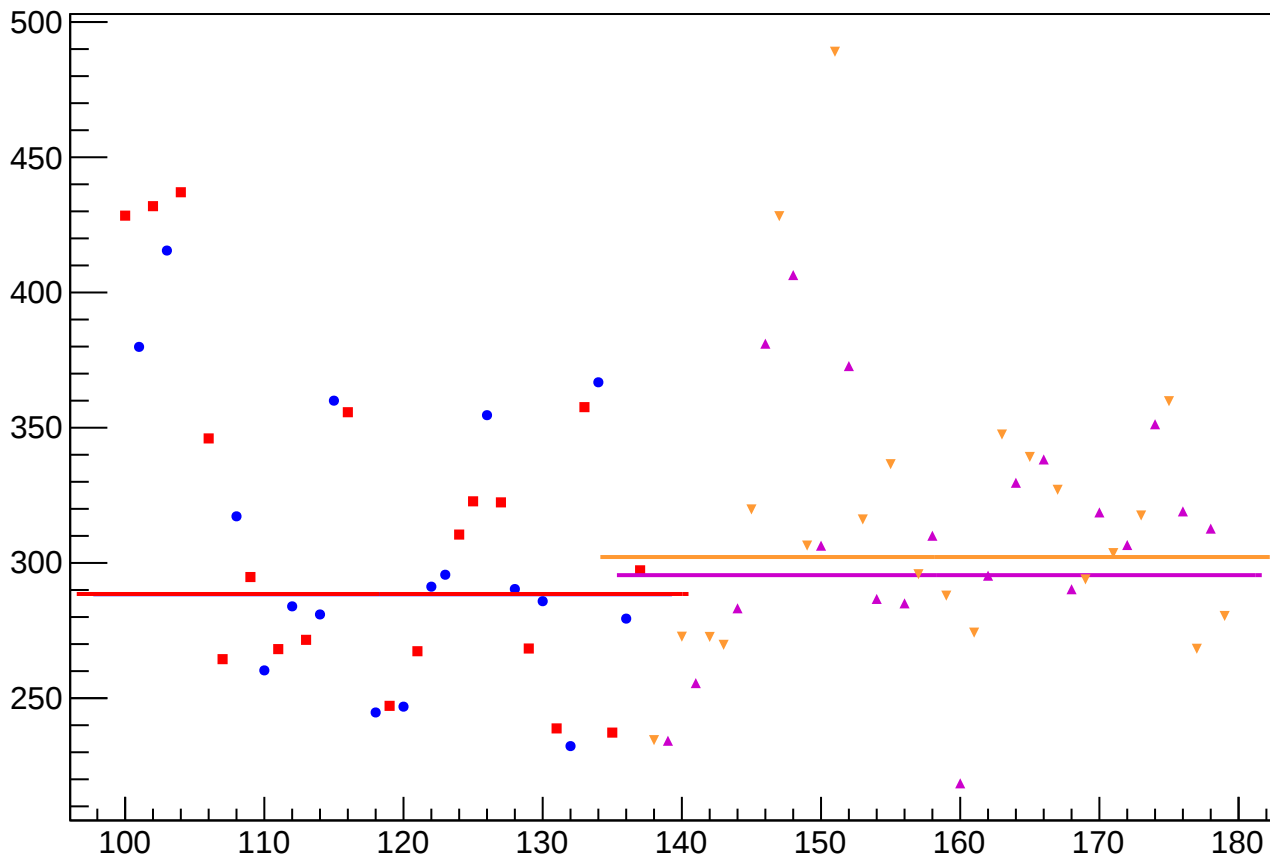
Right: -776.811+/-79.465 χ^2/NDF : 476.3/35

In: -47.541+/-63.707 χ^2/NDF : 791.3/36

Out: 338.893+/-62.441 χ^2/NDF : 1452.8/40

All: 149.553+/-44.593 χ^2/NDF : 2262.9/77

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428+/-0.081 χ^2/NDF : 339820.0/16

Left Out: 302.189+/-0.053 χ^2/NDF : 702005.8/21

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: 298.895+/-0.038 χ^2/NDF : 1400505.6/41

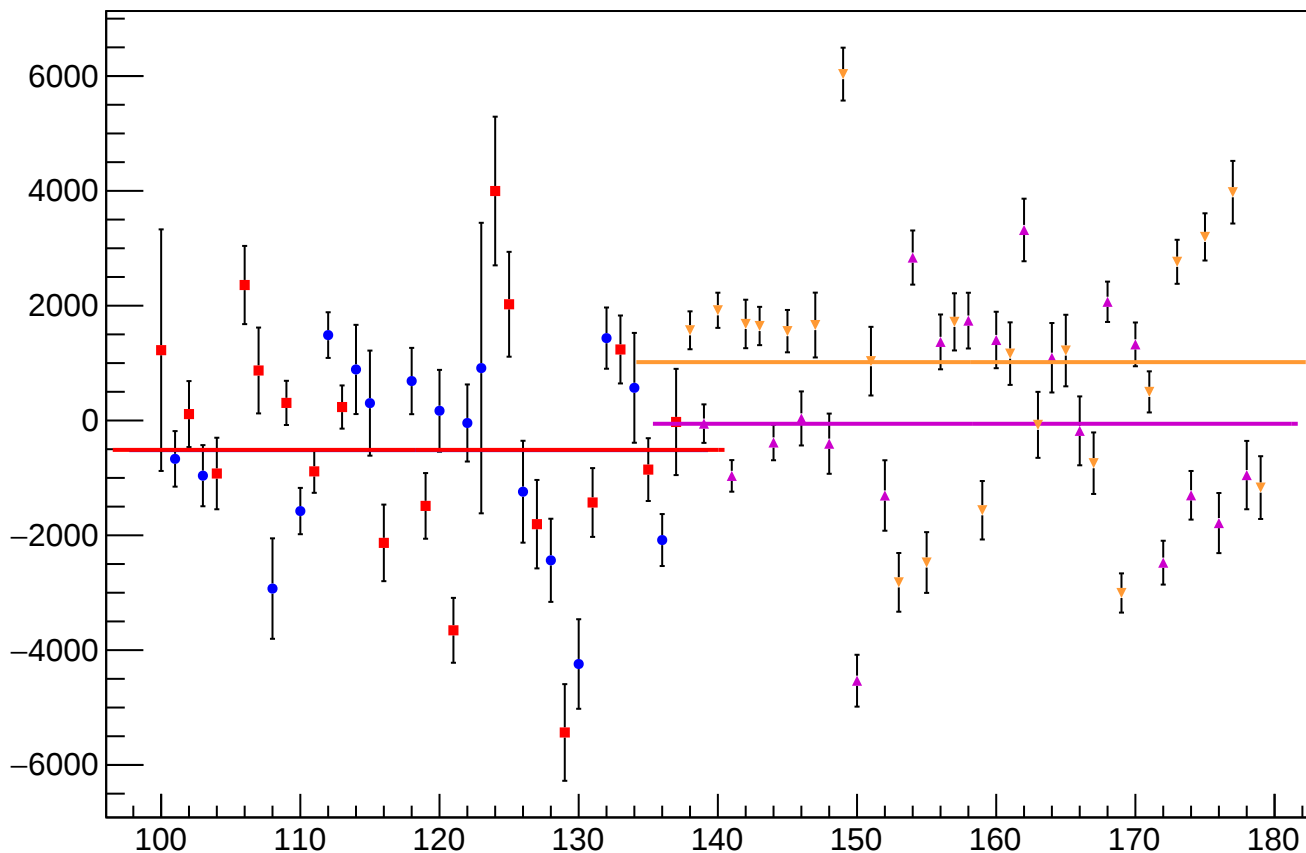
Right: 288.476+/-0.056 χ^2/NDF : 795230.9/35

In: 293.281+/-0.045 χ^2/NDF : 1035863.5/36

Out: 297.855+/-0.044 χ^2/NDF : 1178168.1/40

All: 295.614+/-0.032 χ^2/NDF : 2219288.7/77

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894+/-147.326 χ^2/NDF : 108.0/16

Left Out: 1016.884+/-92.870 χ^2/NDF : 516.6/21

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: 498.384+/-66.788 χ^2/NDF : 918.8/41

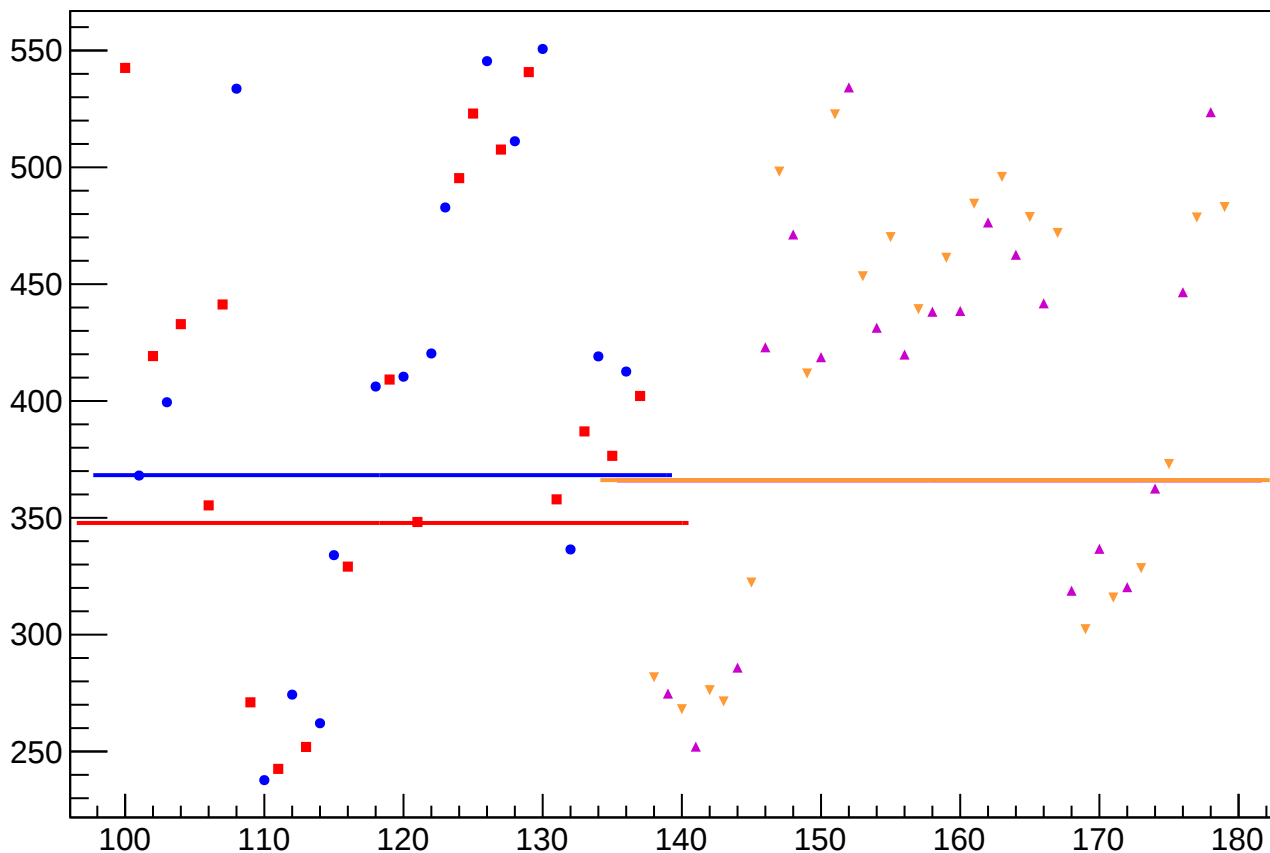
Right: -513.708+/-99.851 χ^2/NDF : 249.3/35

In: -194.006+/-80.500 χ^2/NDF : 452.5/36

Out: 529.736+/-76.658 χ^2/NDF : 744.3/40

All: 185.546+/-55.514 χ^2/NDF : 1239.1/77

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 366.143+/-0.066 χ^2/NDF : 1774979.5/21

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: 366.079+/-0.047 χ^2/NDF : 3267619.4/41

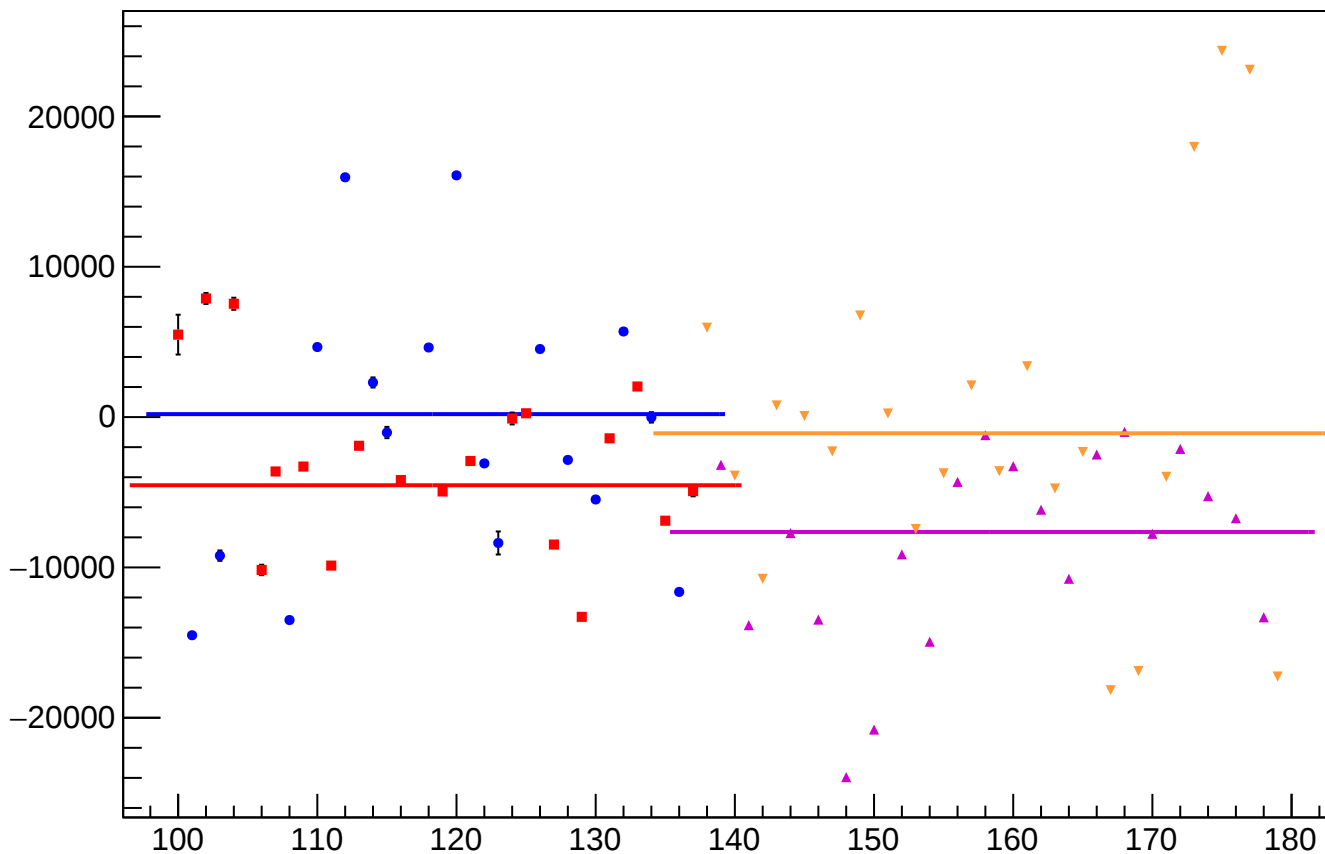
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 366.684+/-0.057 χ^2/NDF : 2263082.5/36

Out: 360.298+/-0.054 χ^2/NDF : 2621698.2/40

All: 363.335+/-0.039 χ^2/NDF : 4891380.9/77

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1079.039 ± 43.777 $\chi^2/\text{NDF}: 56246.0/21$

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: -4217.628 ± 31.621 $\chi^2/\text{NDF}: 84729.8/41$

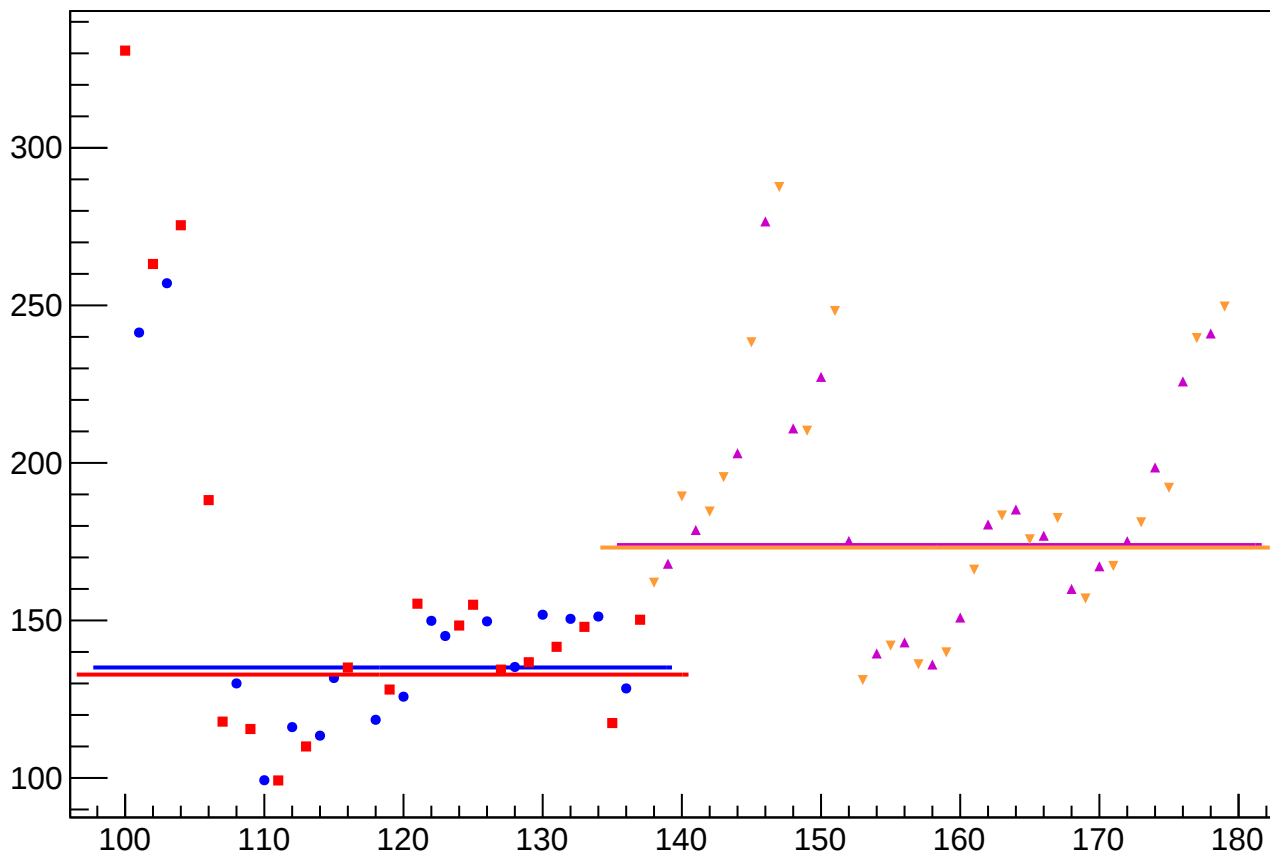
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4424.207 ± 35.107 $\chi^2/\text{NDF}: 60457.3/36$

Out: -2497.336 ± 33.612 $\chi^2/\text{NDF}: 66280.3/40$

All: -3418.858 ± 24.279 $\chi^2/\text{NDF}: 128309.4/7$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 ± 0.039 χ^2/NDF : 658703.5/16

Left Out: 173.137 ± 0.031 χ^2/NDF : 1332023.5/21

Right Out: 132.816 ± 0.037 χ^2/NDF : 831191.5/18

Left In: 173.928 ± 0.032 χ^2/NDF : 977401.3/19

Left: 173.515 ± 0.022 χ^2/NDF : 2309737.0/41

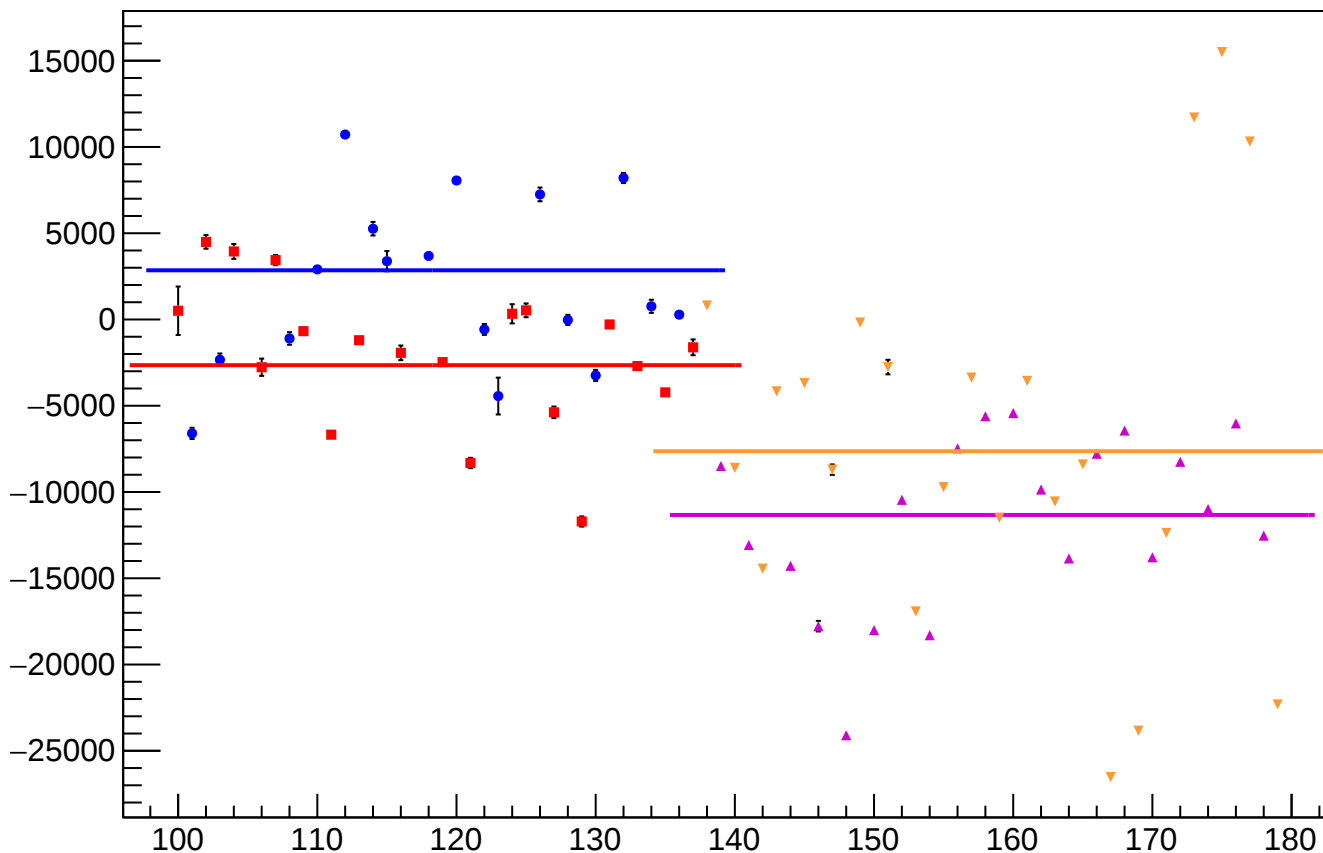
Right: 133.895 ± 0.027 χ^2/NDF : 1491663.0/35

In: 157.980 ± 0.025 χ^2/NDF : 2228940.1/36

Out: 156.586 ± 0.024 χ^2/NDF : 2859678.9/40

All: 157.252 ± 0.017 χ^2/NDF : 5090263.5/77

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7636.273+/-48.312 χ^2/NDF : 49025.2/21

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: -9564.203+/-33.399 χ^2/NDF : 63401.1/41

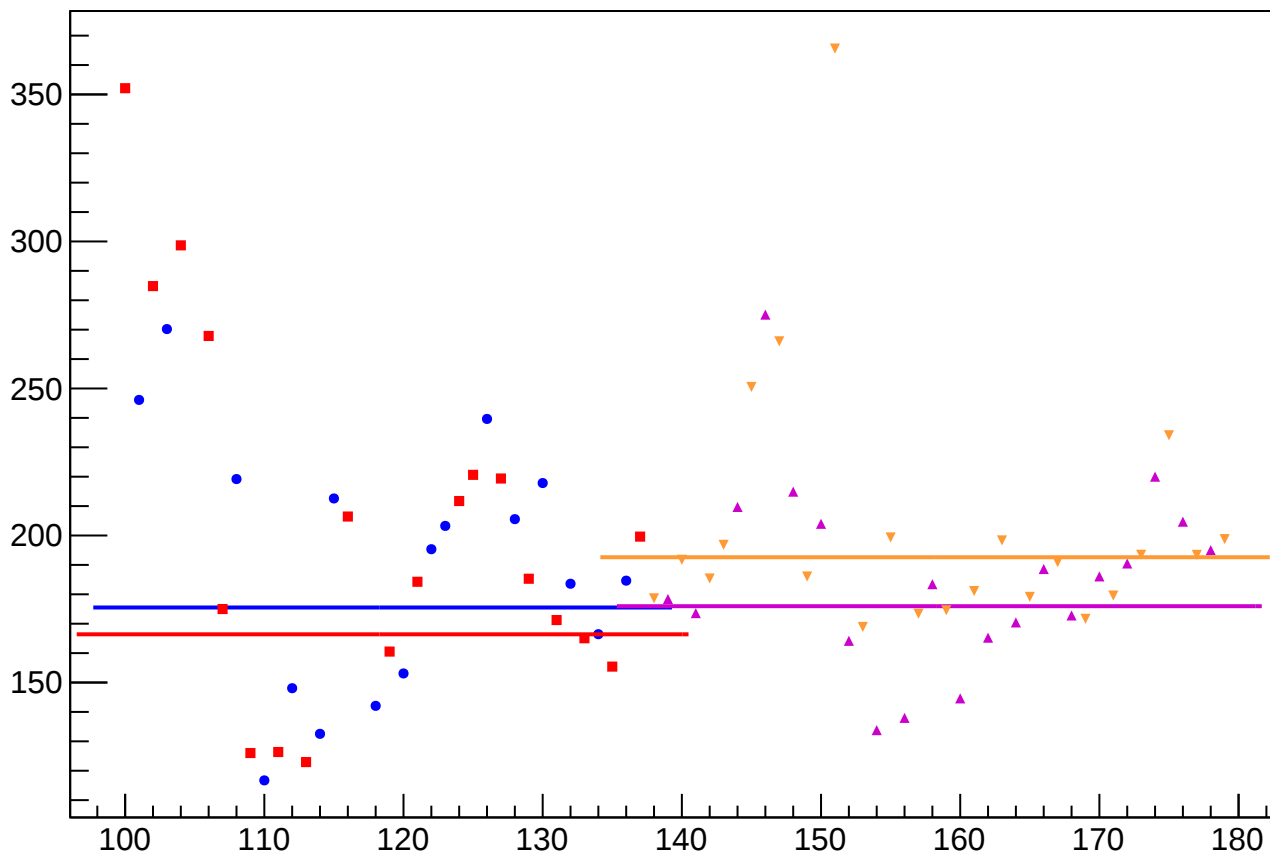
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -7087.079+/-38.698 χ^2/NDF : 43656.5/36

Out: -5887.089+/-38.928 χ^2/NDF : 55938.4/40

All: -6490.635+/-27.445 χ^2/NDF : 100072.9/77

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 192.607 $\pm$ 0.034 χ^2 /NDF: 712704.7/21

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 175.955 $\pm$ 0.033 χ^2 /NDF: 822884.2/19

Left: 183.914 $\pm$ 0.024 χ^2 /NDF: 1659630.1/41

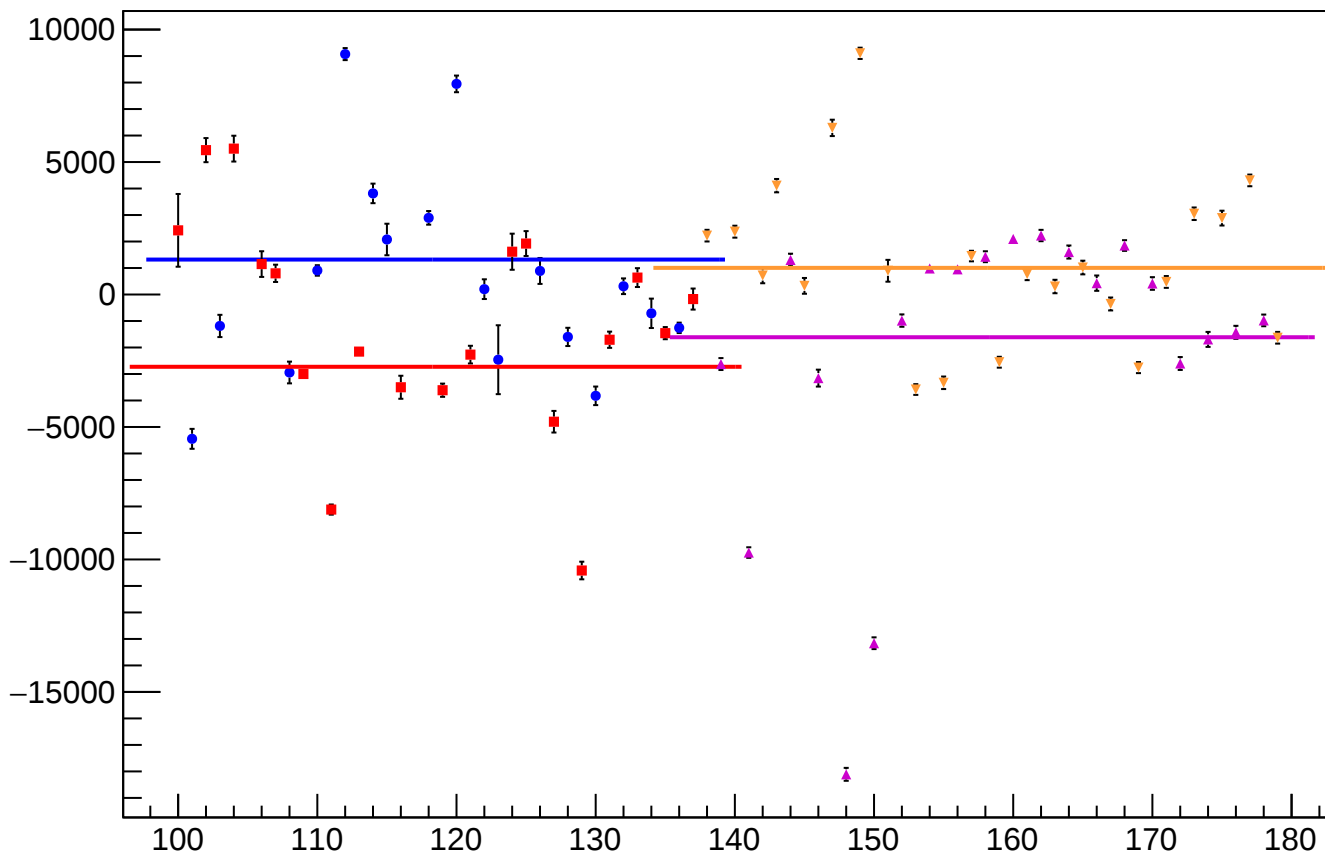
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 175.823 $\pm$ 0.027 χ^2 /NDF: 1512580.9/36

Out: 183.413 $\pm$ 0.028 χ^2 /NDF: 1848769.4/40

All: 179.596 $\pm$ 0.019 χ^2 /NDF: 3399584.0/77

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 1005.570+/-50.712 χ^2/NDF : 3970.3/21

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1612.533+/-48.463 χ^2/NDF : 11312.3/19

Left: -362.818+/-35.037 χ^2/NDF : 16675.7/41

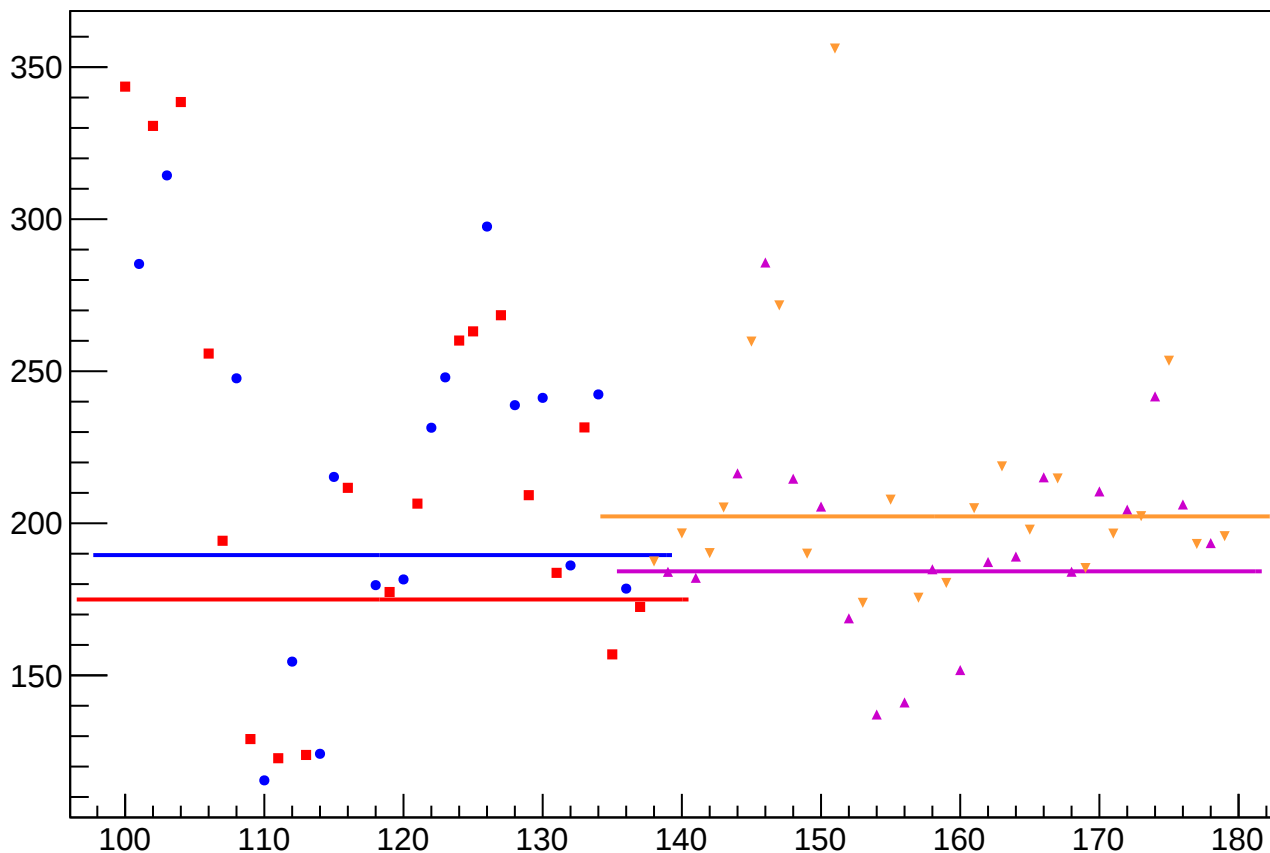
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -783.003+/-41.037 χ^2/NDF : 15014.7/36

Out: -278.717+/-41.073 χ^2/NDF : 8330.7/40

All: -531.081+/-29.030 χ^2/NDF : 23420.8/77

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 202.261+/-0.036 χ^2/NDF : 674679.9/21

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: 192.821+/-0.025 χ^2/NDF : 1674916.9/41

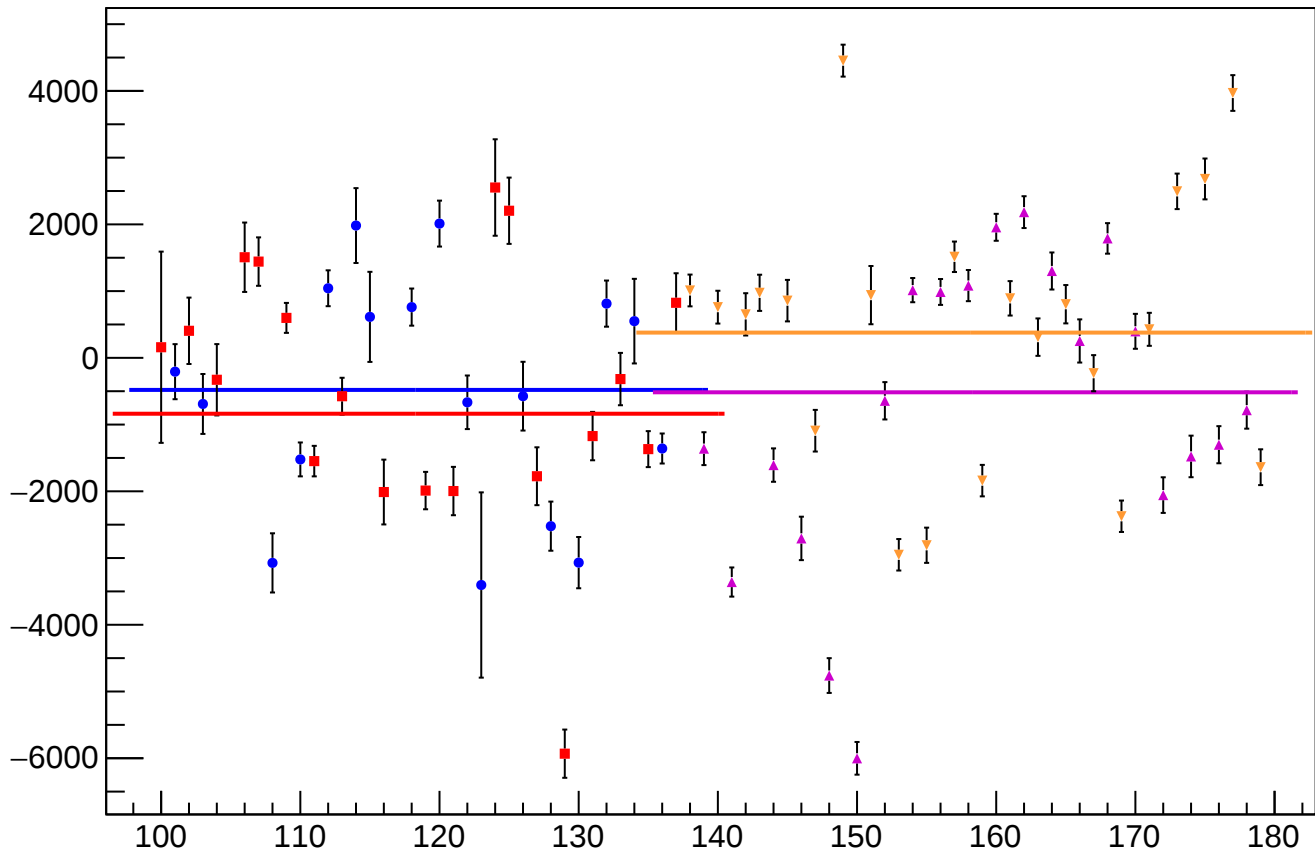
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 185.713+/-0.029 χ^2/NDF : 1855270.1/36

Out: 192.864+/-0.029 χ^2/NDF : 2171432.6/40

All: 189.285+/-0.021 χ^2/NDF : 4057045.5/77

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578+/-88.640 χ^2/NDF : 290.7/16

Left Out: 378.387+/-56.693 χ^2/NDF :1293.7/21

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: -82.777+/-39.465 χ^2/NDF : 3105.0/41

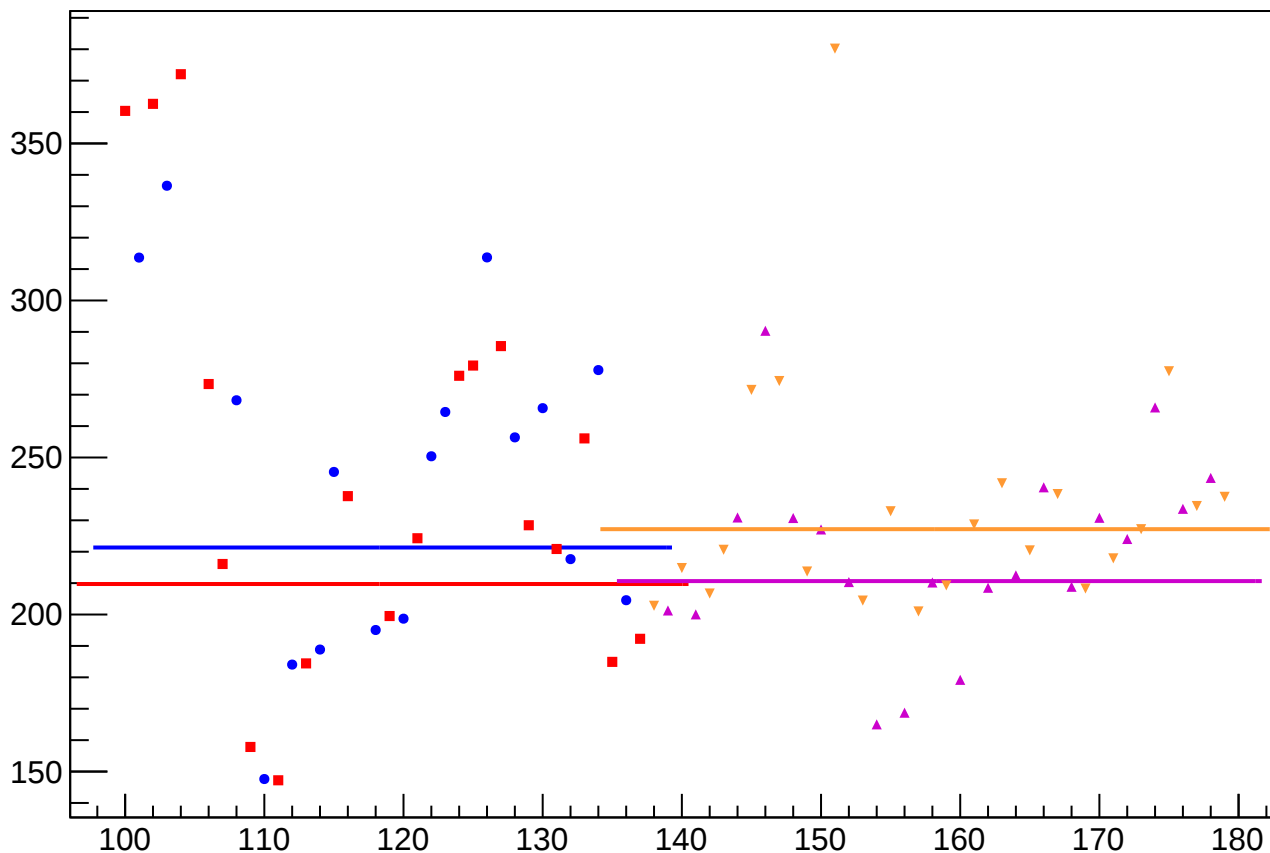
Right: -672.351+/-60.290 χ^2/NDF : 734.7/35

In: -506.394+/-46.716 χ^2/NDF :1973.7/36

Out: -13.254+/-46.678 χ^2/NDF :1877.1/40

All: -259.623+/-33.019 χ^2/NDF : 3906.6/77

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 227.180 $\pm$ 0.040 χ^2 /NDF: 515843.3/21

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 210.646 $\pm$ 0.039 χ^2 /NDF: 569089.0/19

Left: 218.658 $\pm$ 0.028 χ^2 /NDF: 1172614.2/41

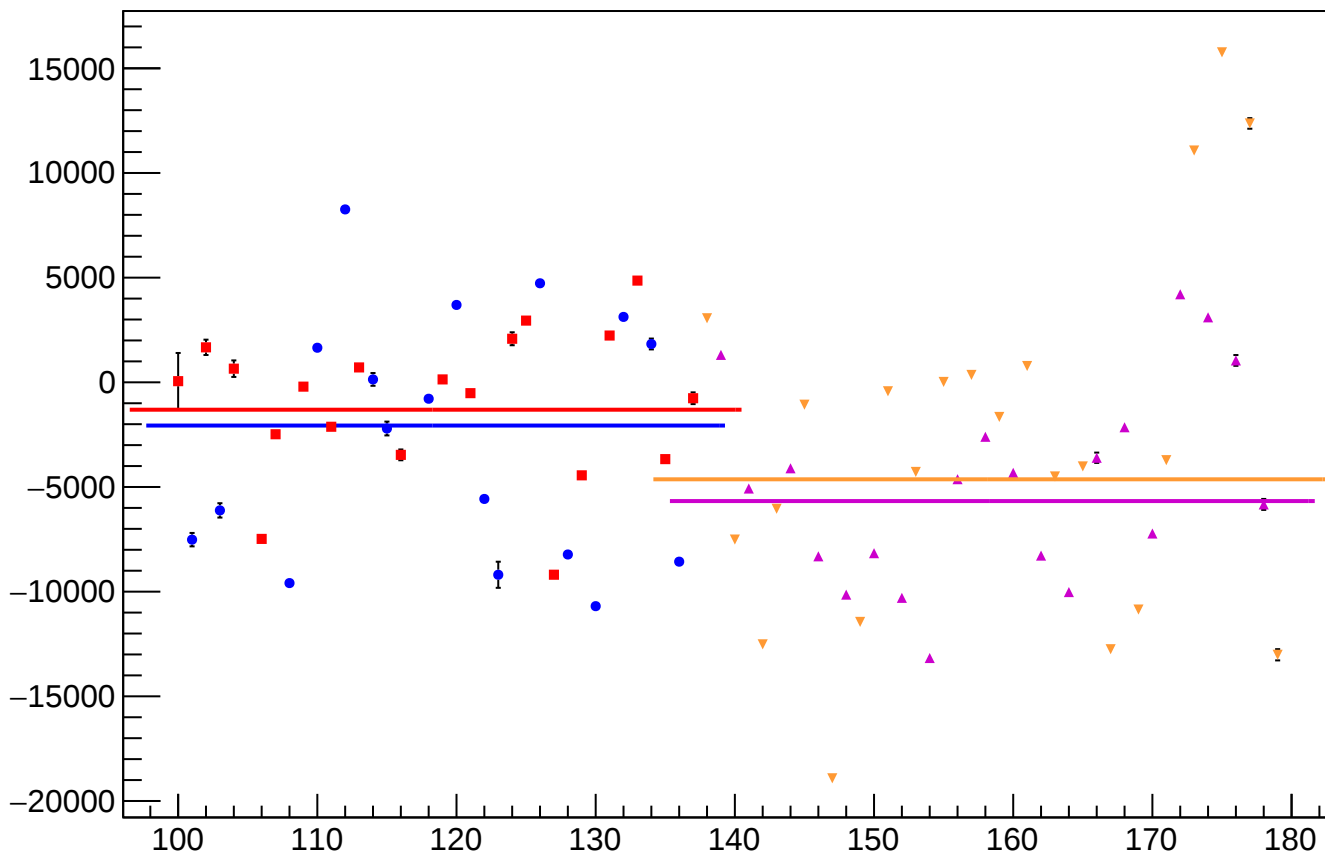
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 213.617 $\pm$ 0.033 χ^2 /NDF: 1235809.3/36

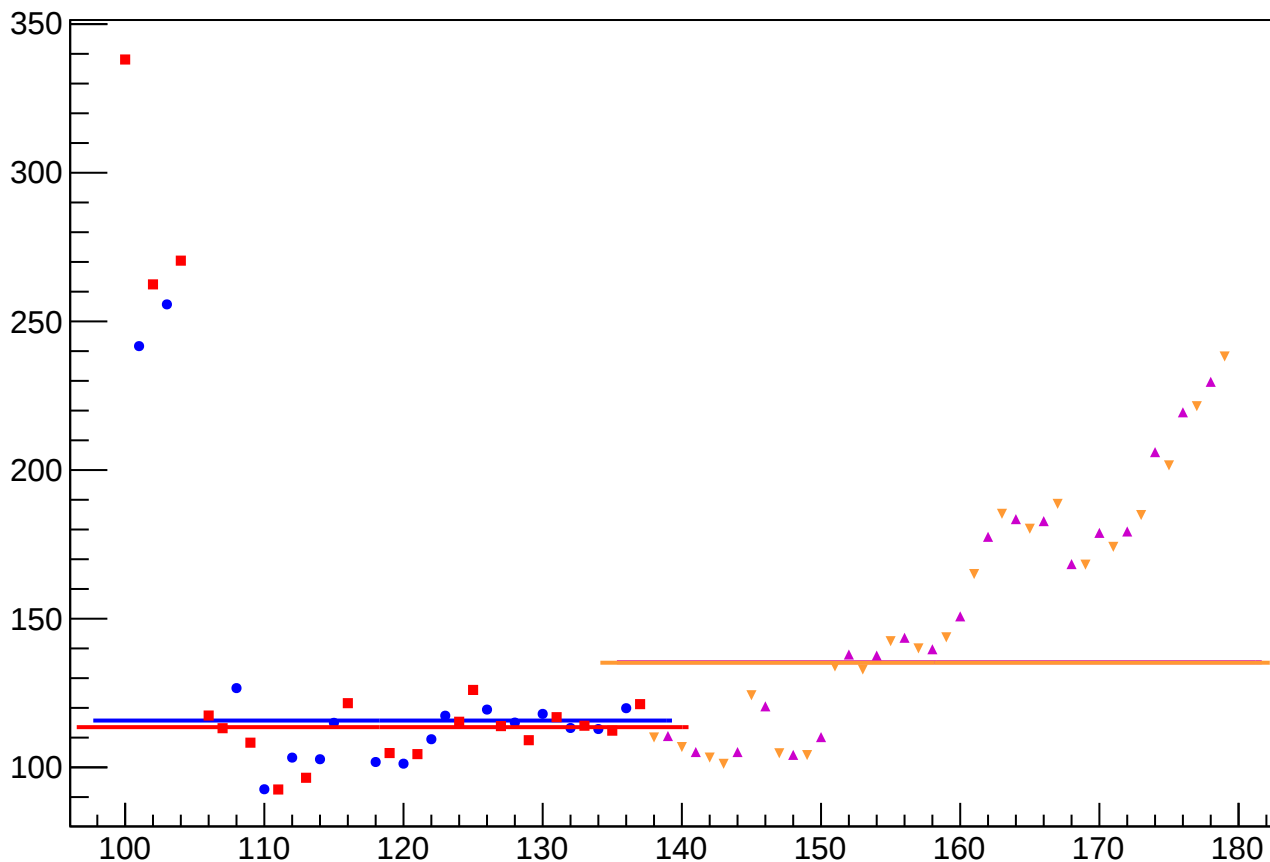
Out: 221.555 $\pm$ 0.033 χ^2 /NDF: 1460892.7/40

All: 217.589 $\pm$ 0.023 χ^2 /NDF: 2725598.5/77

asym_bpm1i02WS_mean vs Slug, Sign Corrected



asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741 $\pm$ 0.033 χ^2 /NDF: 744017.7/16

Left Out: 135.194 $\pm$ 0.024 χ^2 /NDF: 2006897.3/21

Right Out: 113.519 $\pm$ 0.032 χ^2 /NDF: 796640.6/18

Left In: 135.355 $\pm$ 0.025 χ^2 /NDF: 1743908.8/19

Left: 135.272 $\pm$ 0.018 χ^2 /NDF: 3750827.3/41

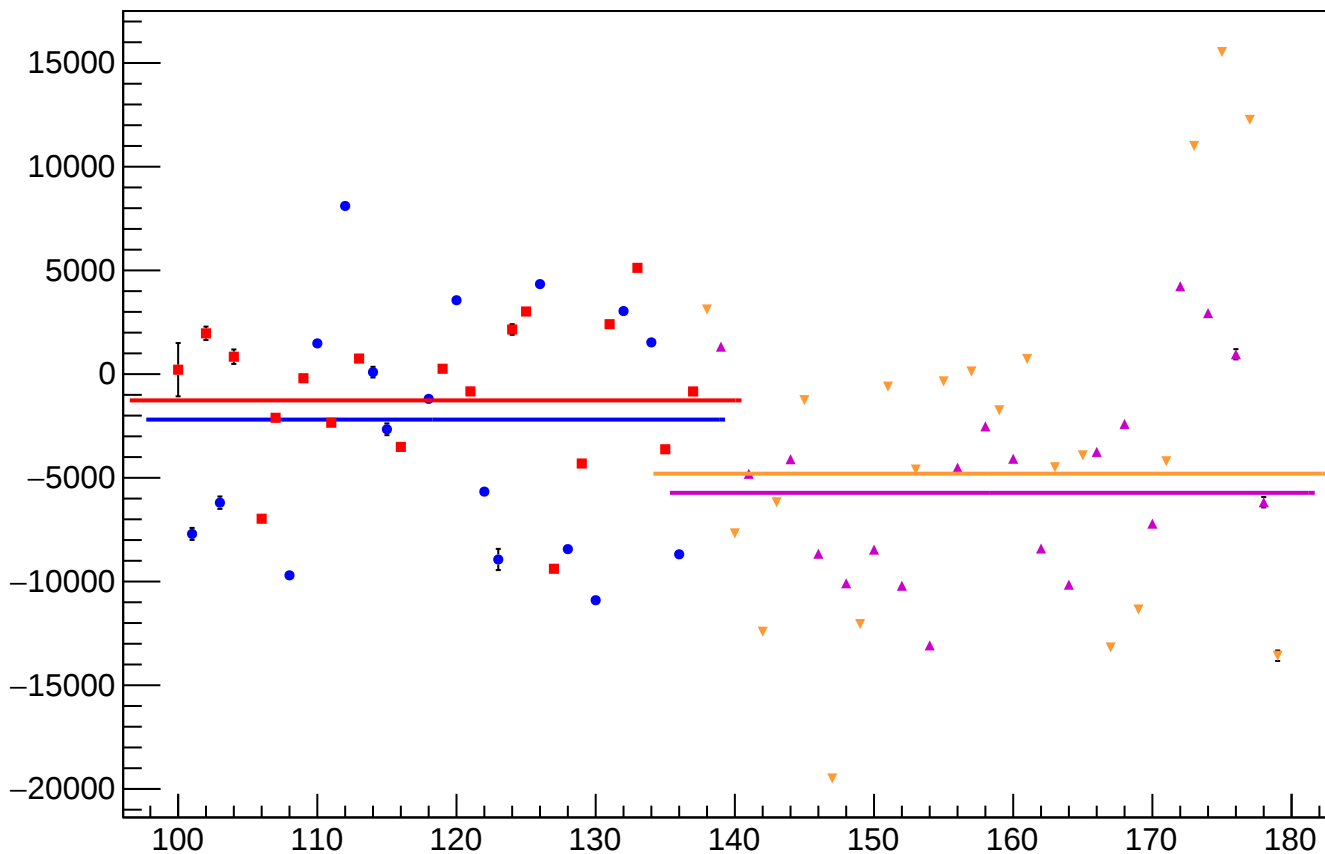
Right: 114.574 $\pm$ 0.023 χ^2 /NDF: 1542972.7/35

In: 128.228 $\pm$ 0.020 χ^2 /NDF: 2706675.4/36

Out: 127.167 $\pm$ 0.019 χ^2 /NDF: 3095691.1/40

All: 127.676 $\pm$ 0.014 χ^2 /NDF: 5803804.3/77

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327 ± 39.944 $\chi^2/\text{NDF}: 22813.5/16$

Left Out: -4800.119 ± 31.337 $\chi^2/\text{NDF}: 59515.5/21$

Right Out: -1266.189 ± 38.048 $\chi^2/\text{NDF}: 8550.5/18$

Left In: -5723.519 ± 32.815 $\chi^2/\text{NDF}: 16893.7/19$

Left: -5240.551 ± 22.663 $\chi^2/\text{NDF}: 76823.4/41$

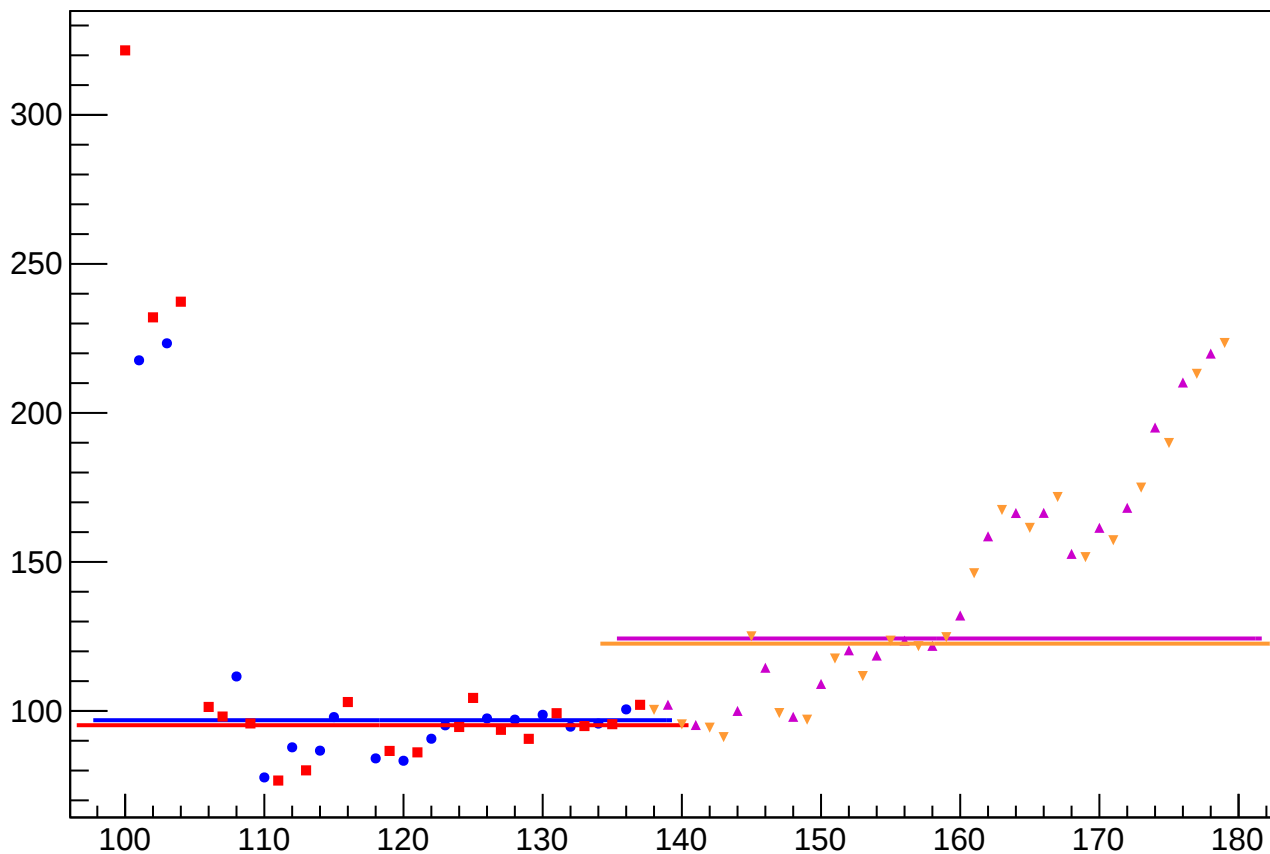
Right: -1706.759 ± 27.550 $\chi^2/\text{NDF}: 31645.9/35$

In: -4300.613 ± 25.356 $\chi^2/\text{NDF}: 44373.3/36$

Out: -3371.806 ± 24.189 $\chi^2/\text{NDF}: 73206.1/40$

All: -3814.345 ± 17.502 $\chi^2/\text{NDF}: 118281.9/77$

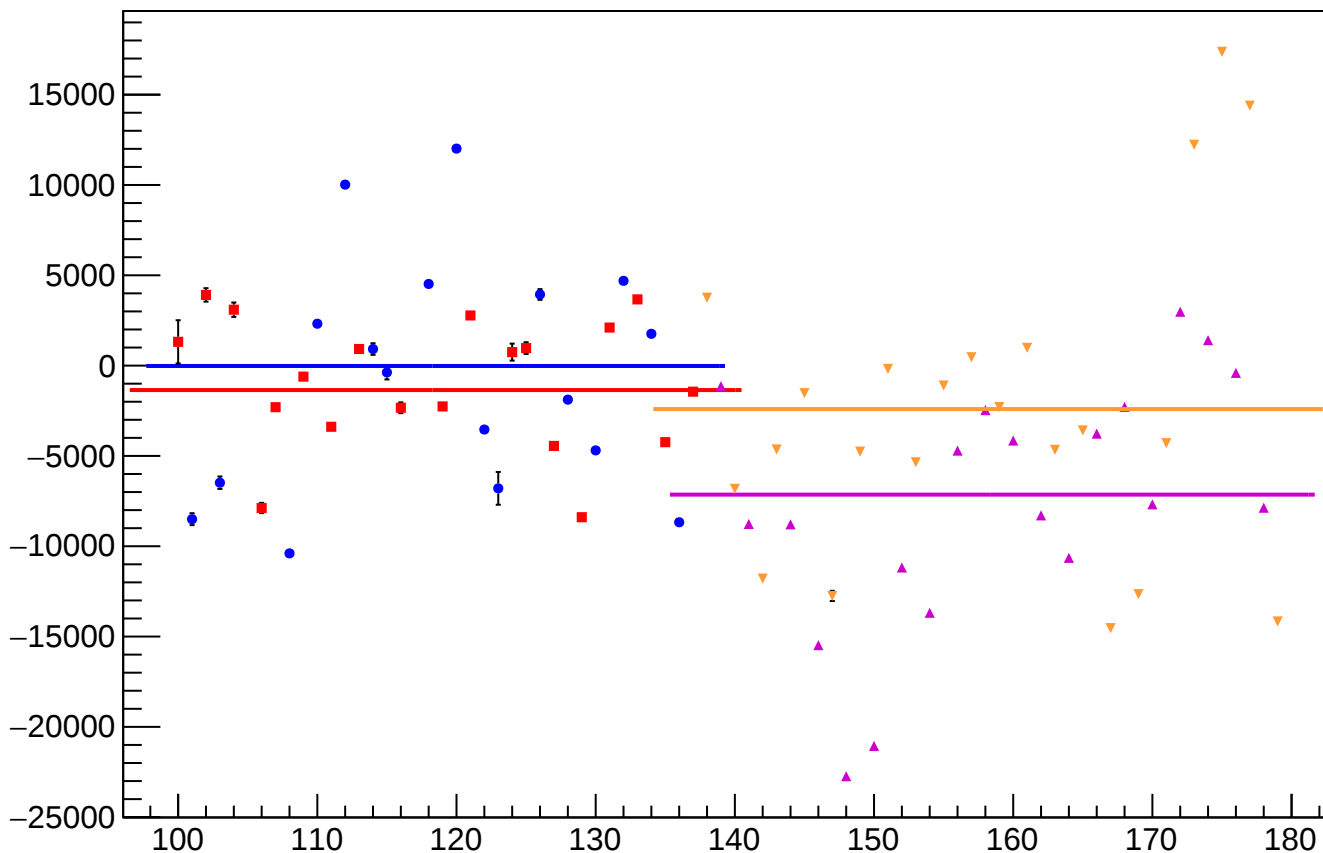
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16
 Left Out: 122.582+/-0.022 χ^2/NDF : 2037601.4/21
 Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18
 Left In: 124.311+/-0.023 χ^2/NDF : 1658382.7/19

Left: 123.406+/-0.016 χ^2/NDF : 3698889.3/41
 Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35
 In: 113.263+/-0.018 χ^2/NDF : 3038181.8/36
 Out: 111.520+/-0.017 χ^2/NDF : 3513968.1/40
 All: 112.351+/-0.012 χ^2/NDF : 6557097.6/77

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 $\chi^2/\text{NDF}: 16361.0/16$

Left Out: -2405.873 ± 41.912 $\chi^2/\text{NDF}: 30324.9/21$

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: -4635.221 ± 30.492 $\chi^2/\text{NDF}: 54064.3/41$

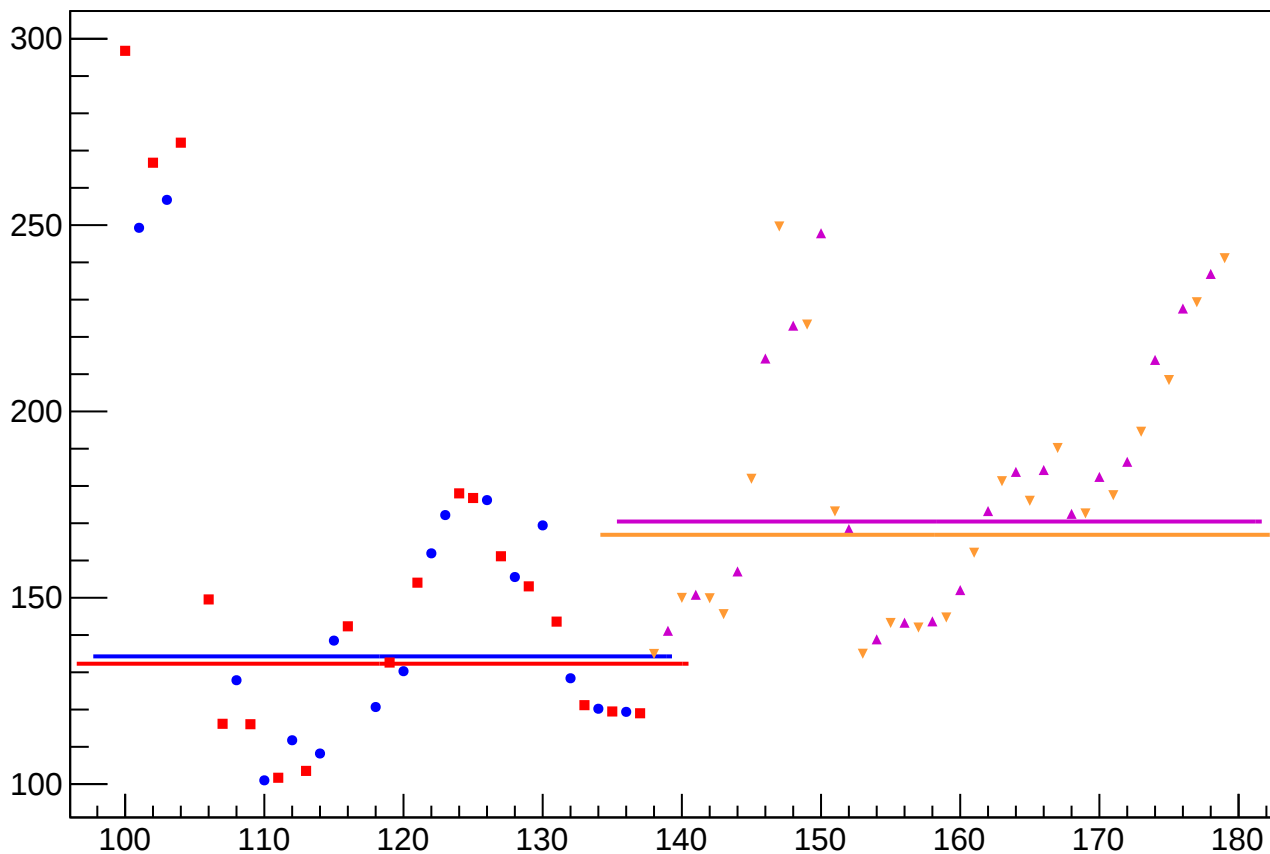
Right: -715.084 ± 37.808 $\chi^2/\text{NDF}: 20508.6/35$

In: -4306.463 ± 34.480 $\chi^2/\text{NDF}: 44313.7/36$

Out: -1994.958 ± 32.722 $\chi^2/\text{NDF}: 34408.3/40$

All: -3090.280 ± 23.735 $\chi^2/\text{NDF}: 81086.7/77$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 166.899 $\pm$ 0.030 χ^2 /NDF:1044150.2/21

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: 168.574 $\pm$ 0.022 χ^2 /NDF: 1993216.1/41

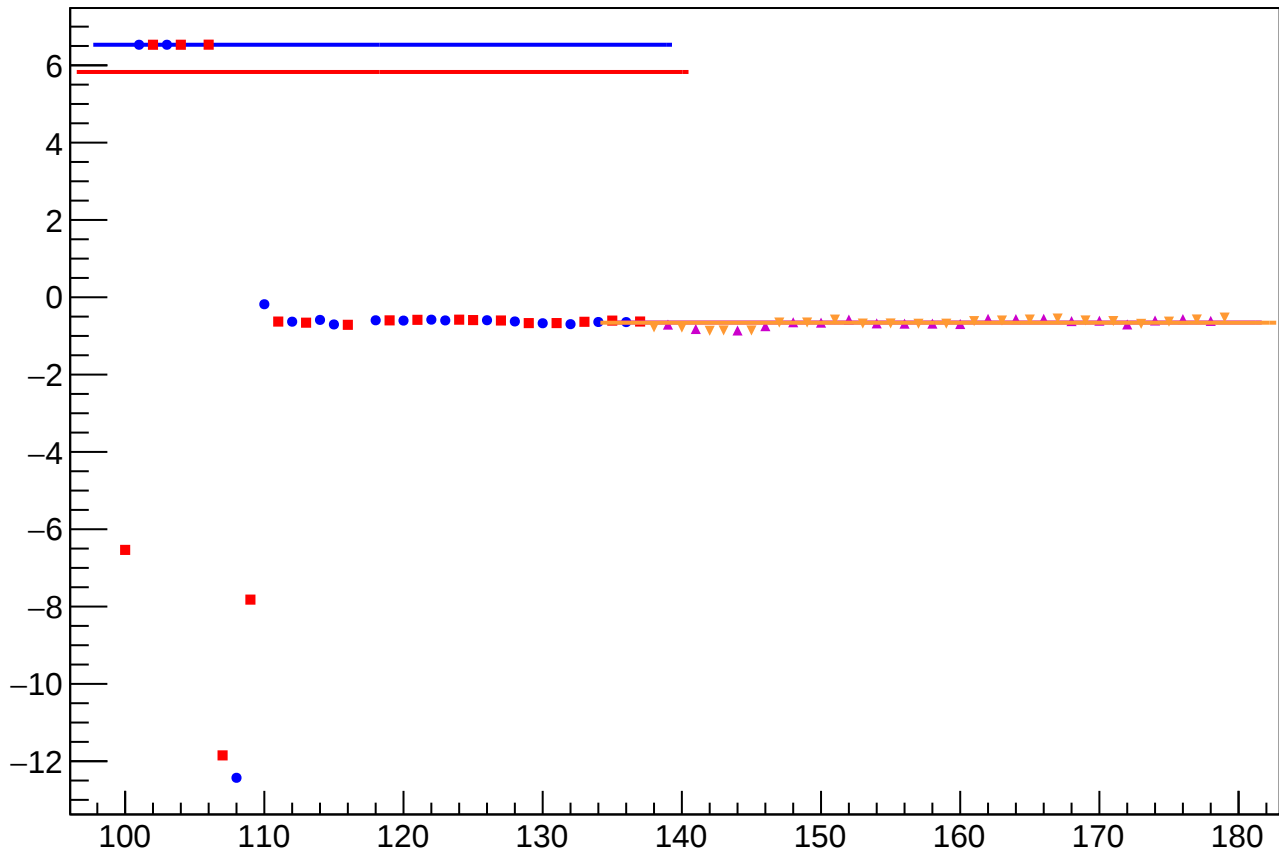
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 156.049 $\pm$ 0.024 χ^2 /NDF:2258916.6/36

Out: 153.390 $\pm$ 0.023 χ^2 /NDF:2446137.4/40

All: 154.650 $\pm$ 0.017 χ^2 /NDF: 4711308.6/77

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.658+/-0.000 χ^2/NDF : 164255686.3/21

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: -0.655+/-0.000 χ^2/NDF : 277169372.1/41

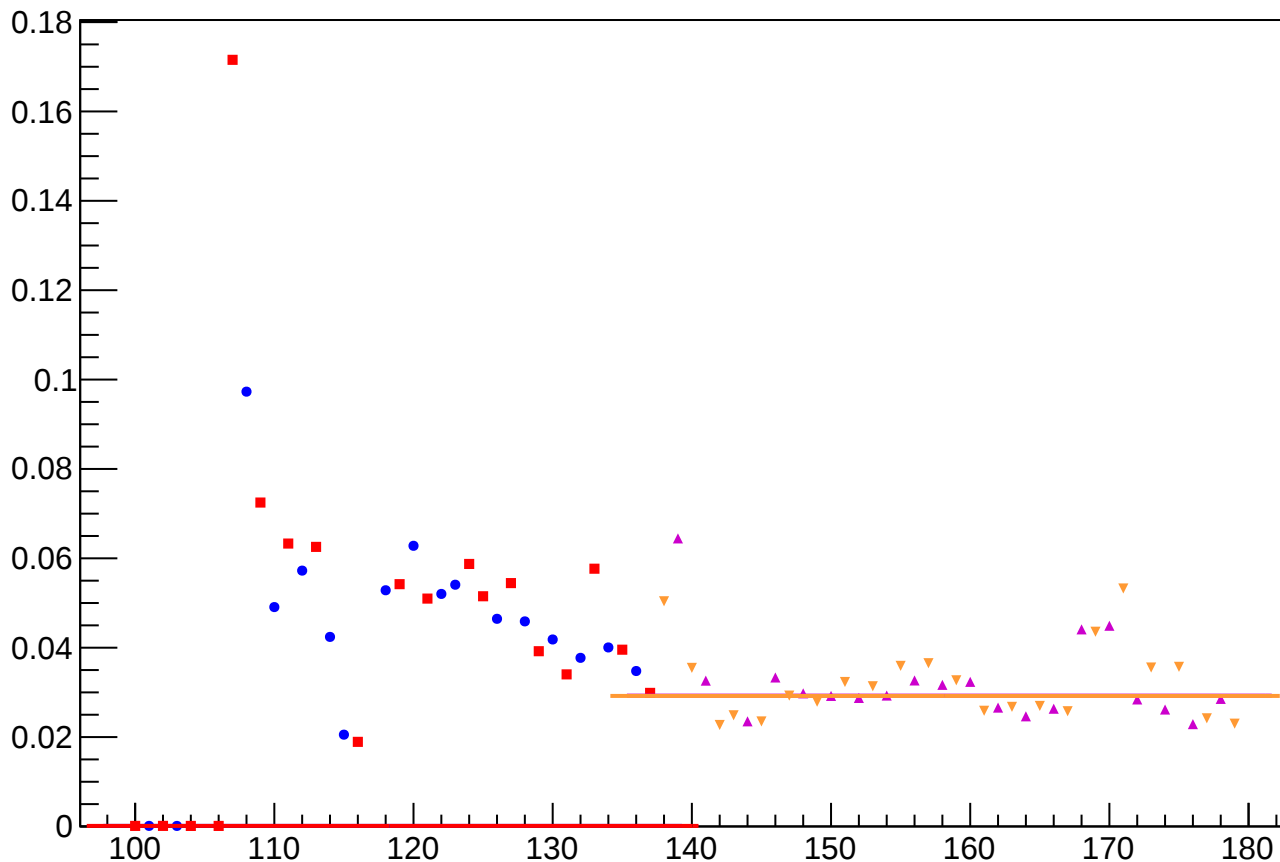
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/36

In: 6.530+/-0.000 χ^2/NDF : 854210248520.5/36

Out: 5.826+/-0.000 χ^2/NDF : 756586694605552.5/41

All: 6.154+/-0.000 χ^2/NDF : 77743599783250.0/72

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.029+/-0.000 χ^2/NDF :1247638.8/21

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: 0.029+/-0.000 χ^2/NDF : 2264078.2/41

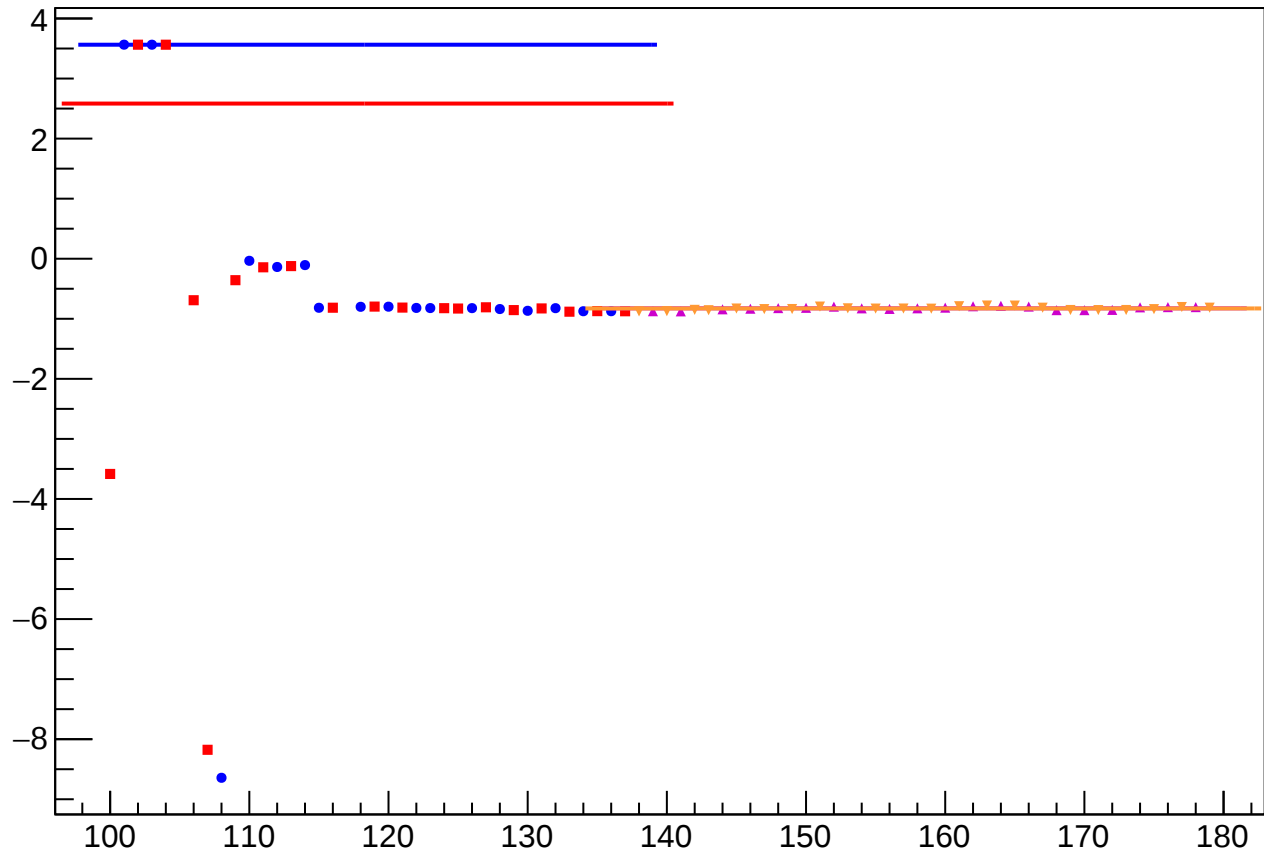
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF :33956329.9/36

Out: 0.000+/-0.000 χ^2/NDF :36281100.2/40

All: 0.000+/-0.000 χ^2/NDF : 70237791.0/77

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.828+/-0.000 χ^2/NDF : 156096156.2/21

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: -0.827+/-0.000 χ^2/NDF : 292011281.3/41

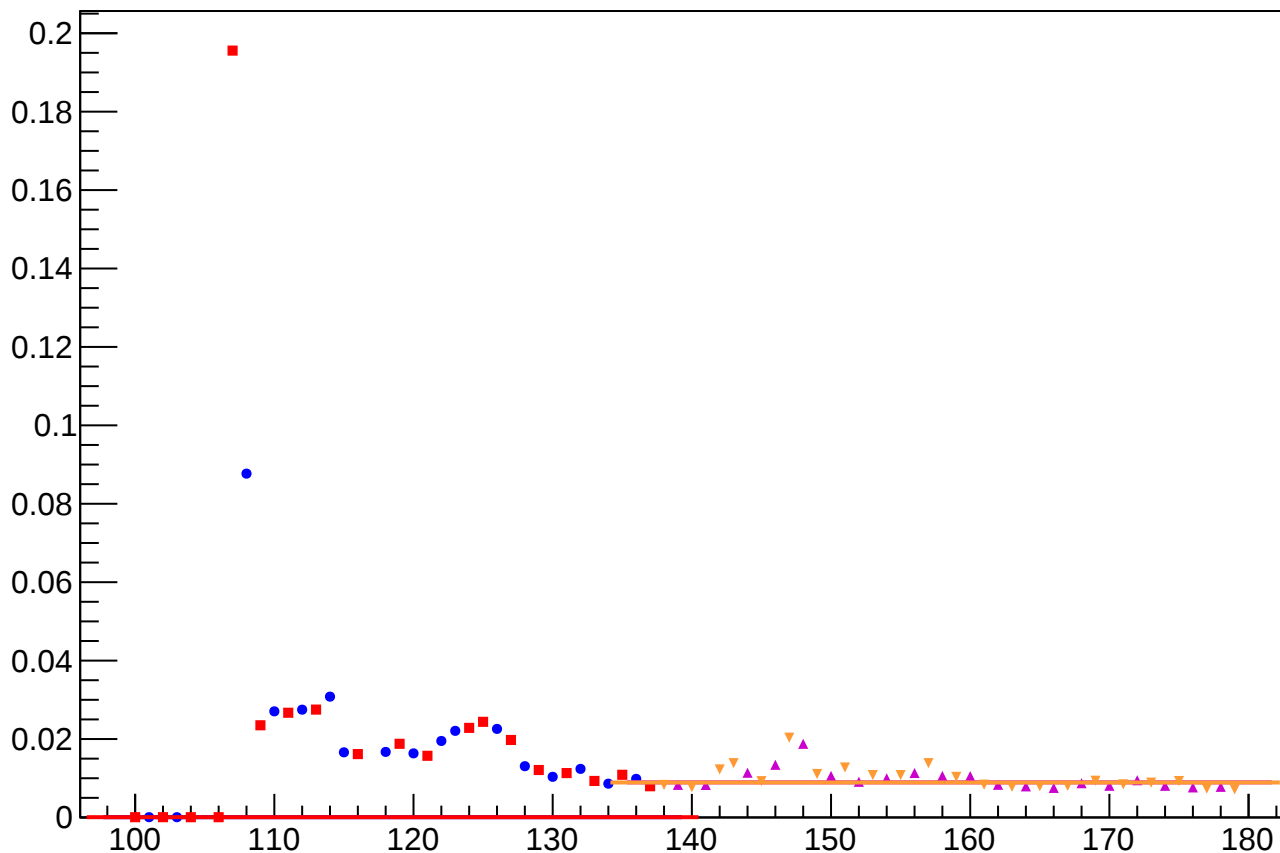
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.7

In: 3.561+/-0.000 χ^2/NDF : 3546755512499.0/36

Out: 2.581+/-0.000 χ^2/NDF : 1255506413182096.5

All: 3.038+/-0.000 χ^2/NDF : 13872104569583

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 :1274801.9/21

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 : 2173186.5/41

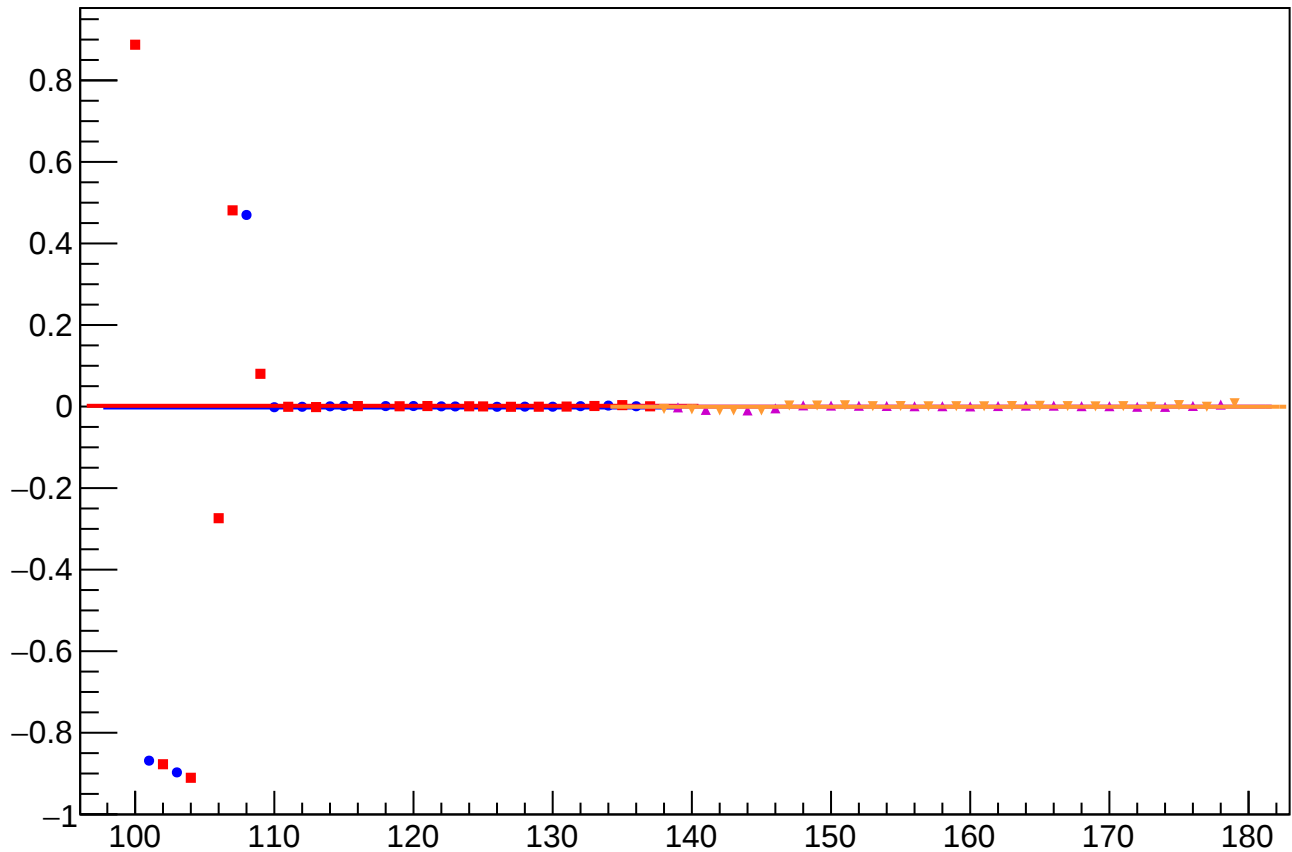
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :35796724.9/36

Out: 0.000+/-0.000 χ^2/NDF :38105956.0/40

All: 0.000+/-0.000 χ^2/NDF : 73903166.1/77

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.000+/-0.000 χ^2/NDF : 131536740.4/21

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: -0.000+/-0.000 χ^2/NDF : 208843179.4/41

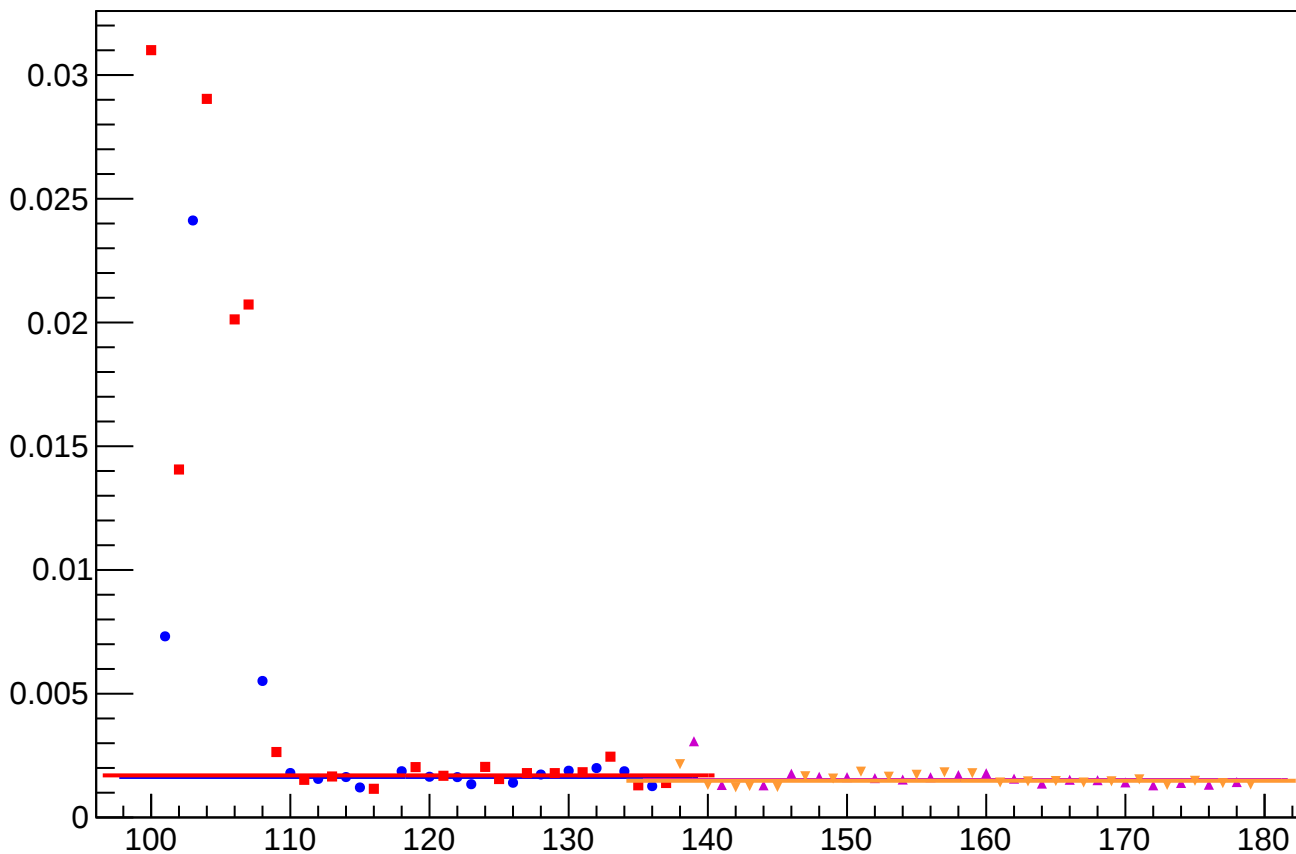
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9878394343.3/36

Out: 0.000+/-0.000 χ^2/NDF : 3179331160.0/40

All: -0.000+/-0.000 χ^2/NDF : 13059403222.7/79

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:484255.5/21

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: 0.001 $\pm$ 0.000 χ^2 /NDF: 1088457.3/41

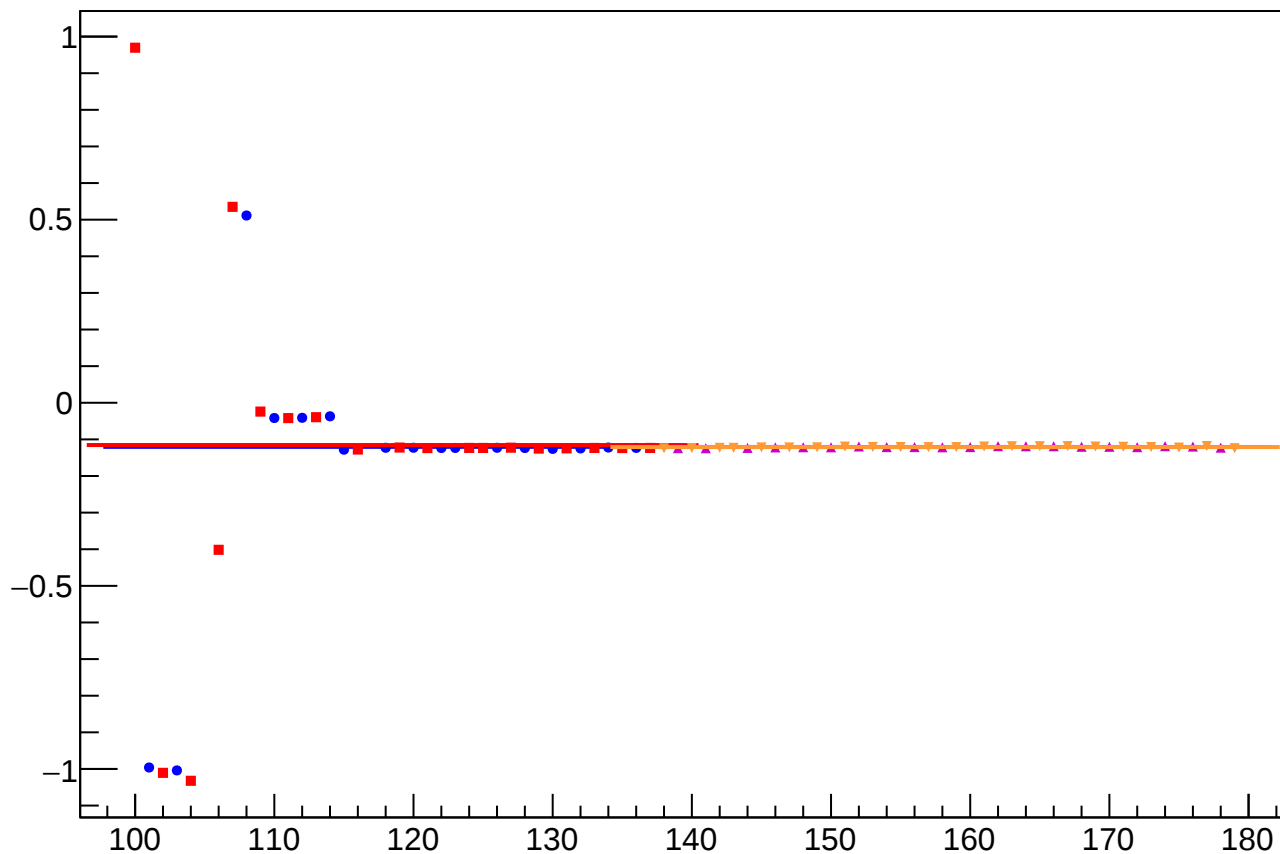
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2558511.7/36

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3625257.4/40

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 6185301.2/77

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000

χ^2/NDF : 3932311162.8/16

Left: -0.121+/-0.000

χ^2/NDF : 91908462.3/41

Left Out: -0.121+/-0.000

χ^2/NDF : 54332177.8/21

Right: -0.118+/-0.000

χ^2/NDF : 6412422727.1/35

Right Out: -0.115+/-0.000

χ^2/NDF : 2457092455.9/18

In: -0.121+/-0.000

χ^2/NDF : 3969662797.1/36

Out: -0.120+/-0.000

χ^2/NDF : 2563341650.2/40

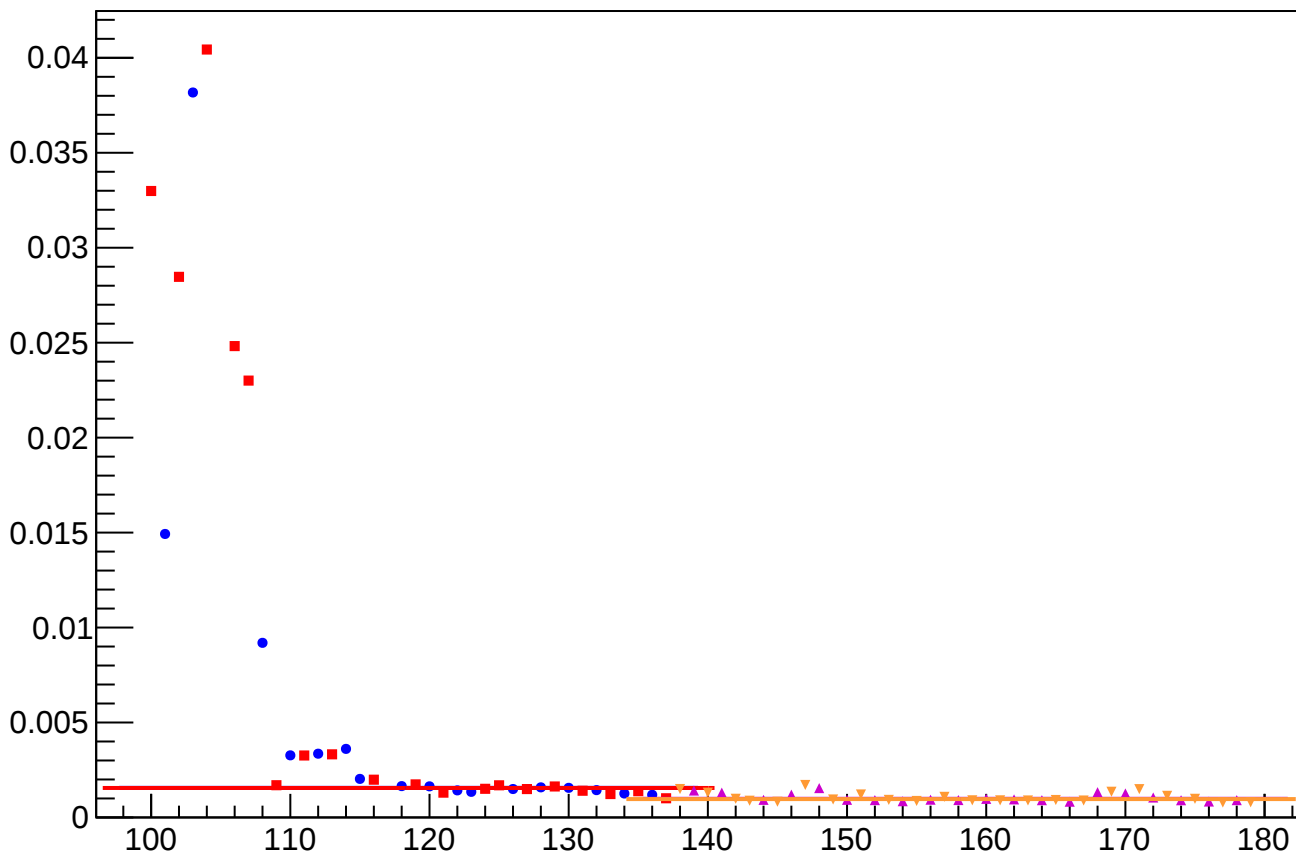
Left In: -0.121+/-0.000

χ^2/NDF : 37125663.3/19

All: -0.121+/-0.000

χ^2/NDF : 6533756905.9/7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2903607.4/16

Left Out: 0.001+/-0.000 χ^2/NDF : 1214313.0/21

Right Out: 0.002+/-0.000 χ^2/NDF : 3538622.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 807726.1/19

Left: 0.001+/-0.000 χ^2/NDF : 2025385.8/41

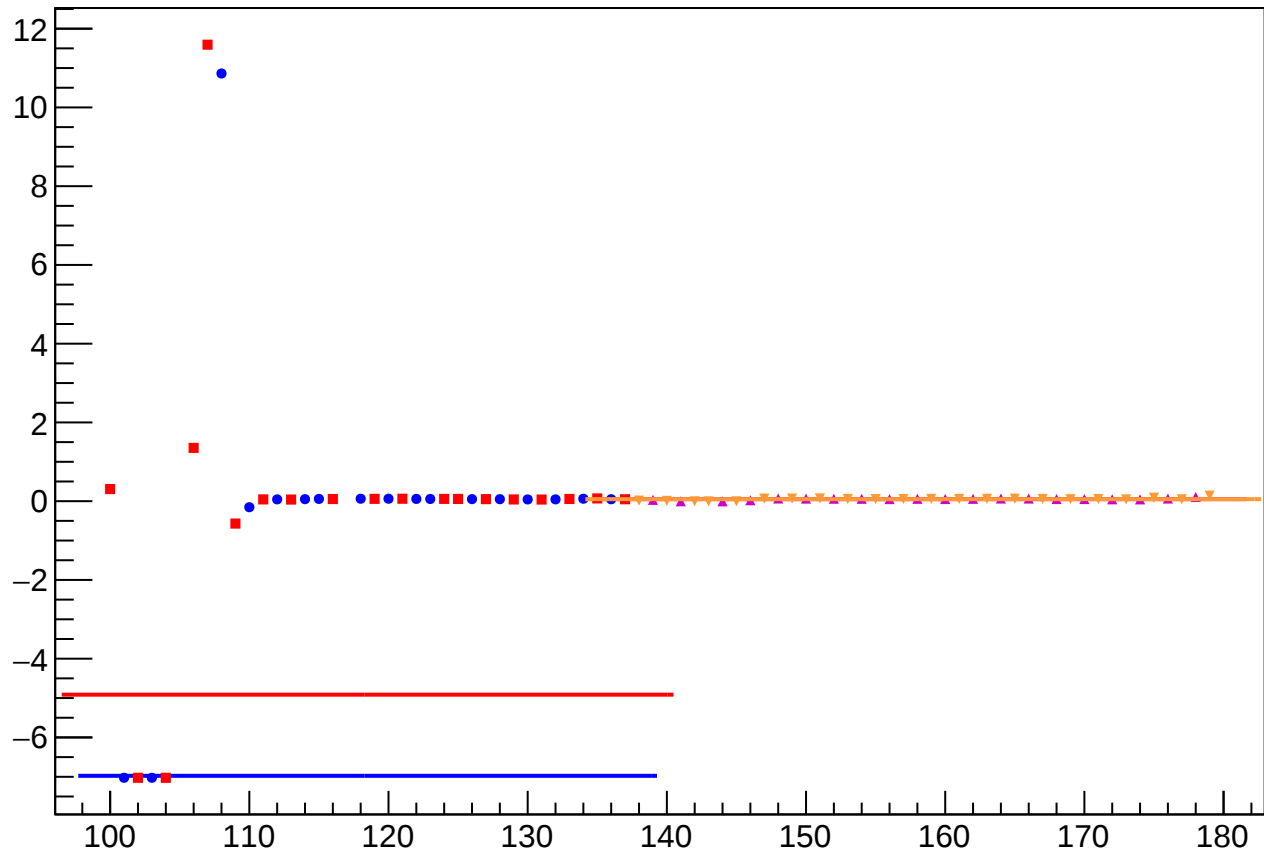
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF : 4826825.4/36

Out: 0.001+/-0.000 χ^2/NDF : 5913702.4/40

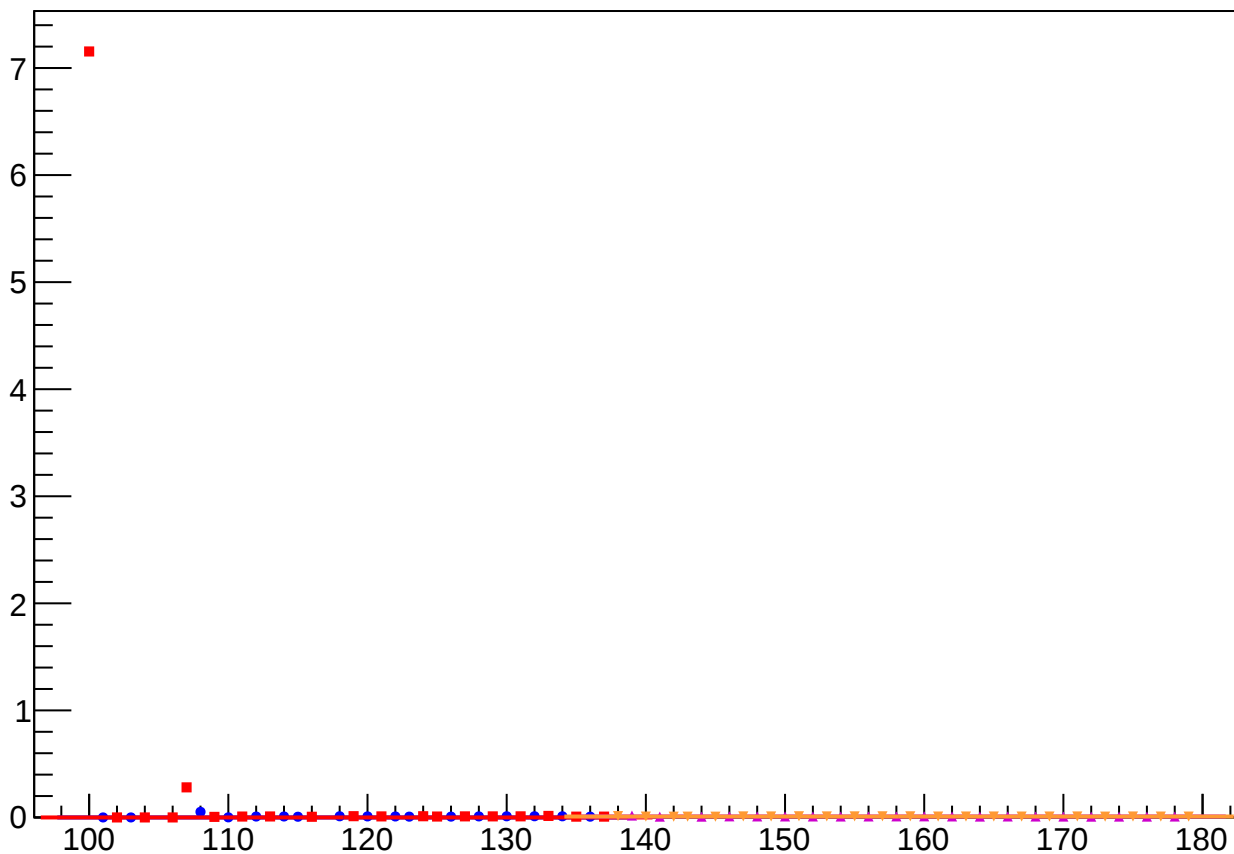
All: 0.001+/-0.000 χ^2/NDF : 10747074.5/77

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8787948713830.4/16$
 Left Out: 0.051 ± 0.000 $\chi^2/\text{NDF}: 199515418.6/21$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365362215369689.4/18$
 Left In: 0.052 ± 0.000 $\chi^2/\text{NDF}: 106273193.6/19$
 Left: 0.052 ± 0.000 $\chi^2/\text{NDF}: 305801257.4/41$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430340247682327.9$
 In: -6.932 ± 0.000 $\chi^2/\text{NDF}: 16424666305539.9/36$
 Out: -4.883 ± 0.000 $\chi^2/\text{NDF}: 369616679778973.1/17$
 All: -5.863 ± 0.000 $\chi^2/\text{NDF}: 4419305254482.0/100$

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 : 473049.9/21

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 : 1068890.2/41

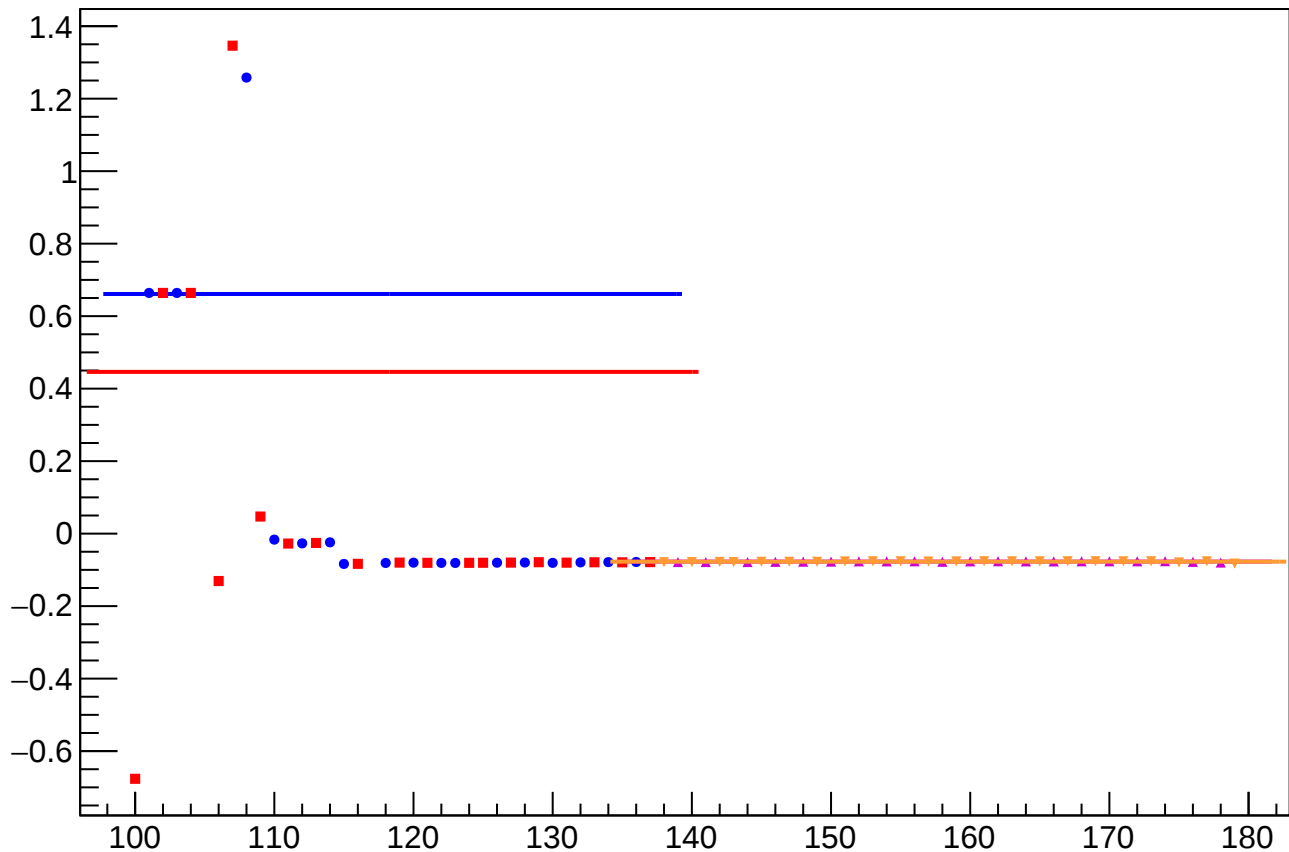
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 32702320.0/36

Out: 0.000+/-0.000 χ^2/NDF : 34788565.2/40

All: 0.000+/-0.000 χ^2/NDF : 67491179.2/77

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 : 178946105.6/41

Left Out: -0.077+/-0.000

χ^2/NDF : 131787317.9/21

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: 0.437+/-0.000

χ^2/NDF : 419108386234087.0/4

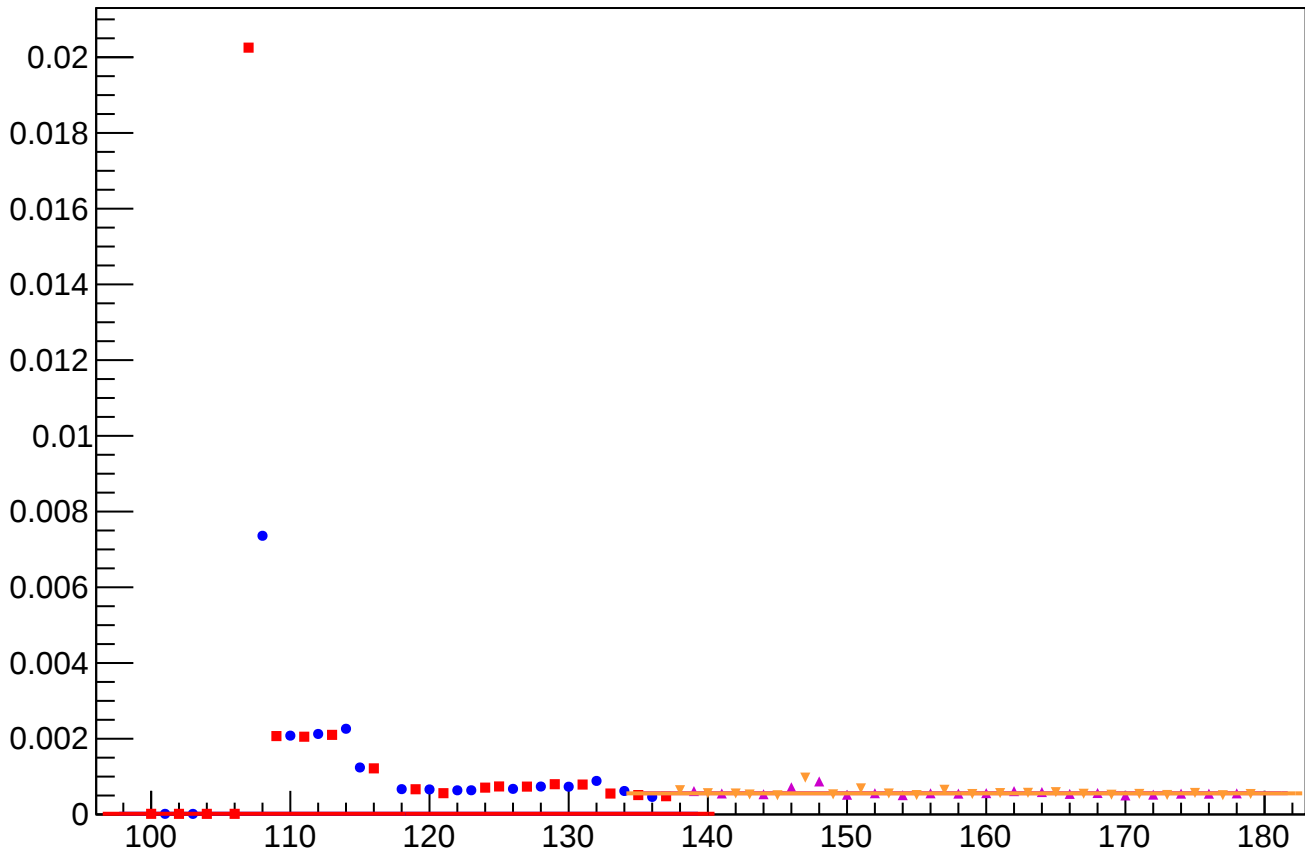
Left In: -0.077+/-0.000

χ^2/NDF : 46271276.8/19

All: 0.538+/-0.000

χ^2/NDF : 51153508432082

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 : 456929.2/21

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 : 811187.0/41

Right: 0.000+/-0.000

χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000

χ^2/NDF : 37424165.0/36

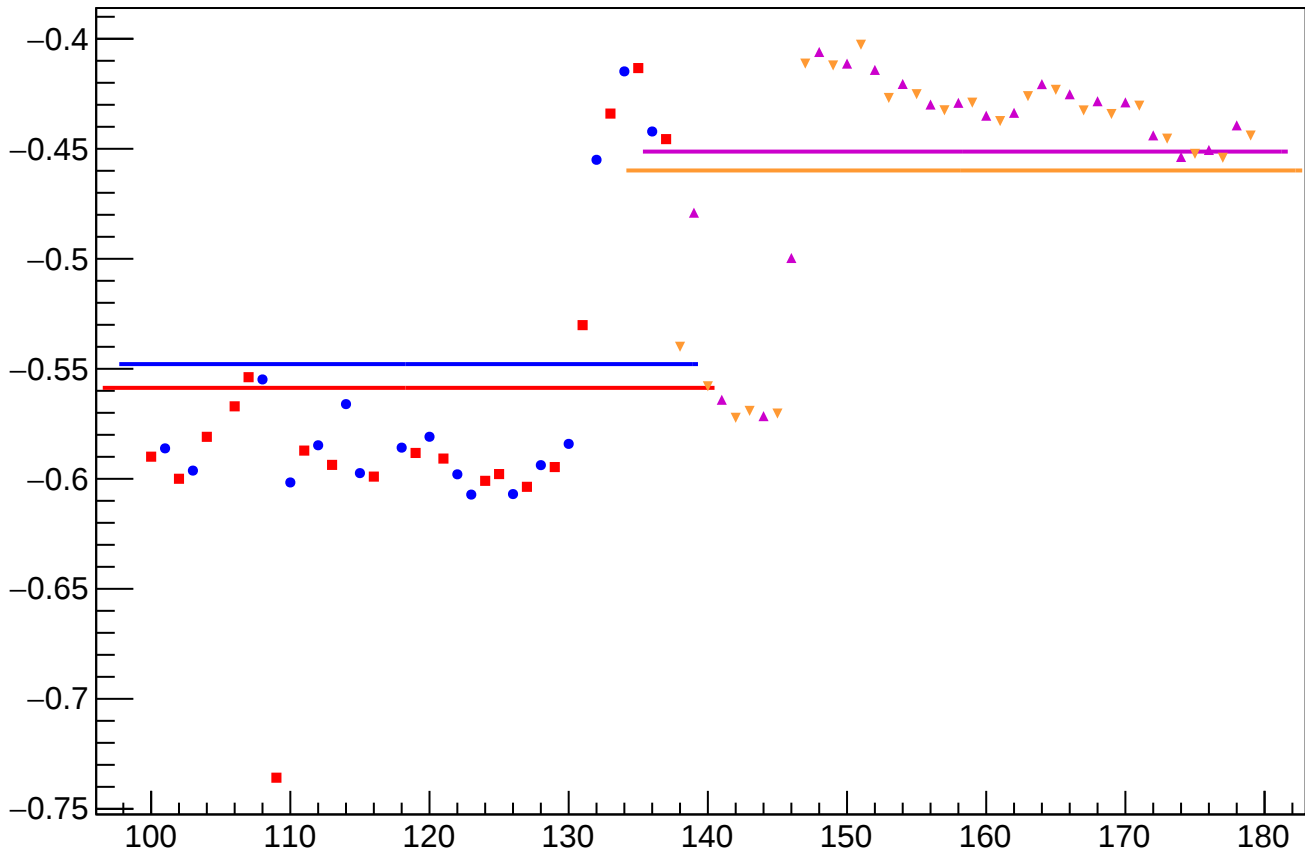
Out: 0.000+/-0.000

χ^2/NDF : 38951769.7/40

All: 0.000+/-0.000

χ^2/NDF : 76376054.8/77

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548 ± 0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.460 ± 0.000 χ^2/NDF : 107165640.2/21

Right Out: -0.559 ± 0.000 χ^2/NDF : 65682293.5/18

Left In: -0.451 ± 0.000 χ^2/NDF : 75523832.6/19

Left: -0.456 ± 0.000 χ^2/NDF : 183923840.5/41

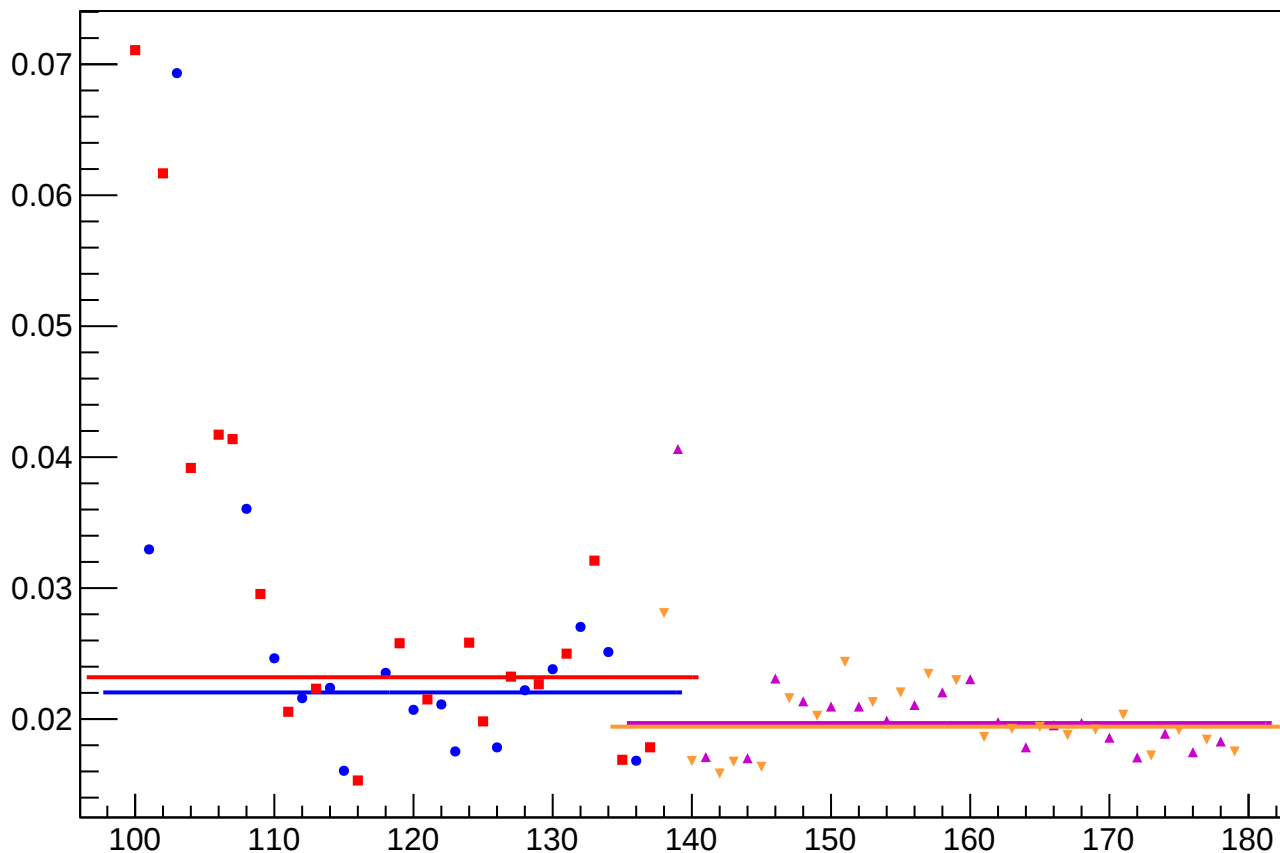
Right: -0.553 ± 0.000 χ^2/NDF : 114857155.8/35

In: -0.475 ± 0.000 χ^2/NDF : 197908467.0/36

Out: -0.482 ± 0.000 χ^2/NDF : 248433674.0/40

All: -0.478 ± 0.000 χ^2/NDF : 447211055.9/77

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.019+/-0.000 χ^2/NDF : 448002.2/21

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 : 1033023.2/41

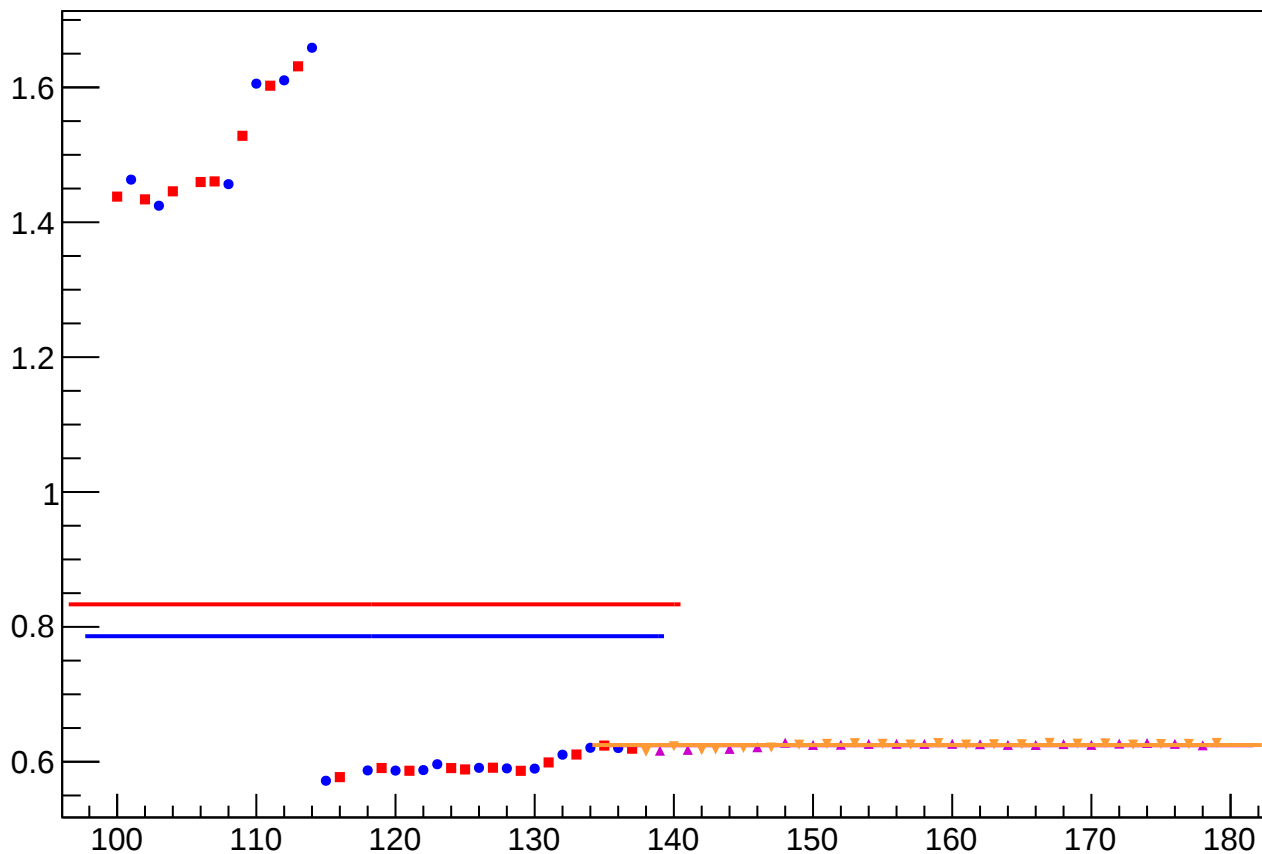
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.020+/-0.000 χ^2/NDF : 1627804.7/36

Out: 0.020+/-0.000 χ^2/NDF : 1825554.1/40

All: 0.020+/-0.000 χ^2/NDF : 3453396.1/77

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786+/-0.000 χ^2/NDF : 3590113316.1/16

Left Out: 0.625+/-0.000 χ^2/NDF :1347242.4/21

Right Out: 0.833+/-0.000 χ^2/NDF : 4156812252.4/18

Left In: 0.624+/-0.000 χ^2/NDF :1058310.7/19

Left: 0.625+/-0.000 χ^2/NDF : 2410409.5/41

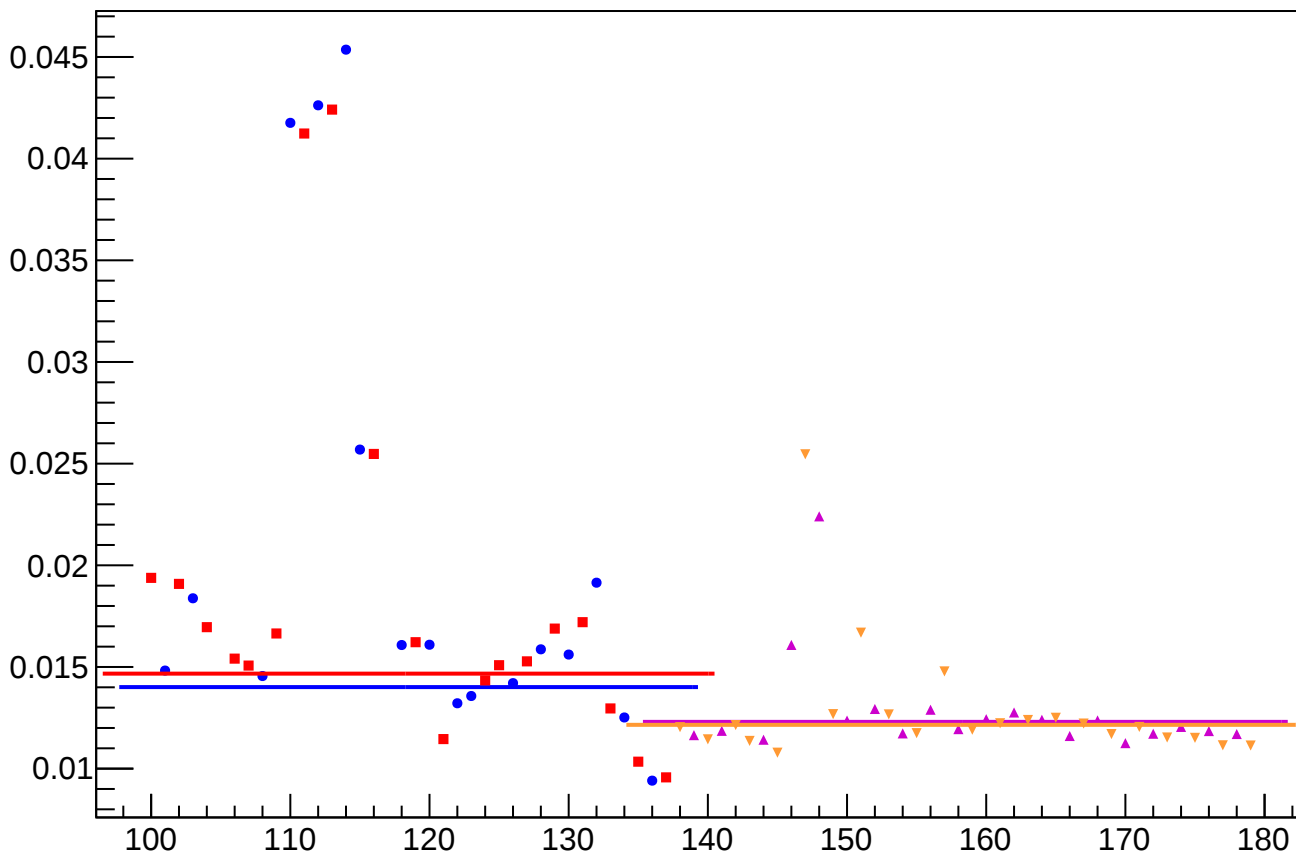
Right: 0.809+/-0.000 χ^2/NDF : 7778629767.1/35

In: 0.661+/-0.000 χ^2/NDF :4175028466.4/36

Out: 0.668+/-0.000 χ^2/NDF :5122495253.4/40

All: 0.665+/-0.000 χ^2/NDF : 9300342532.0/77

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 : 641436.3/21

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 : 1091903.9/41

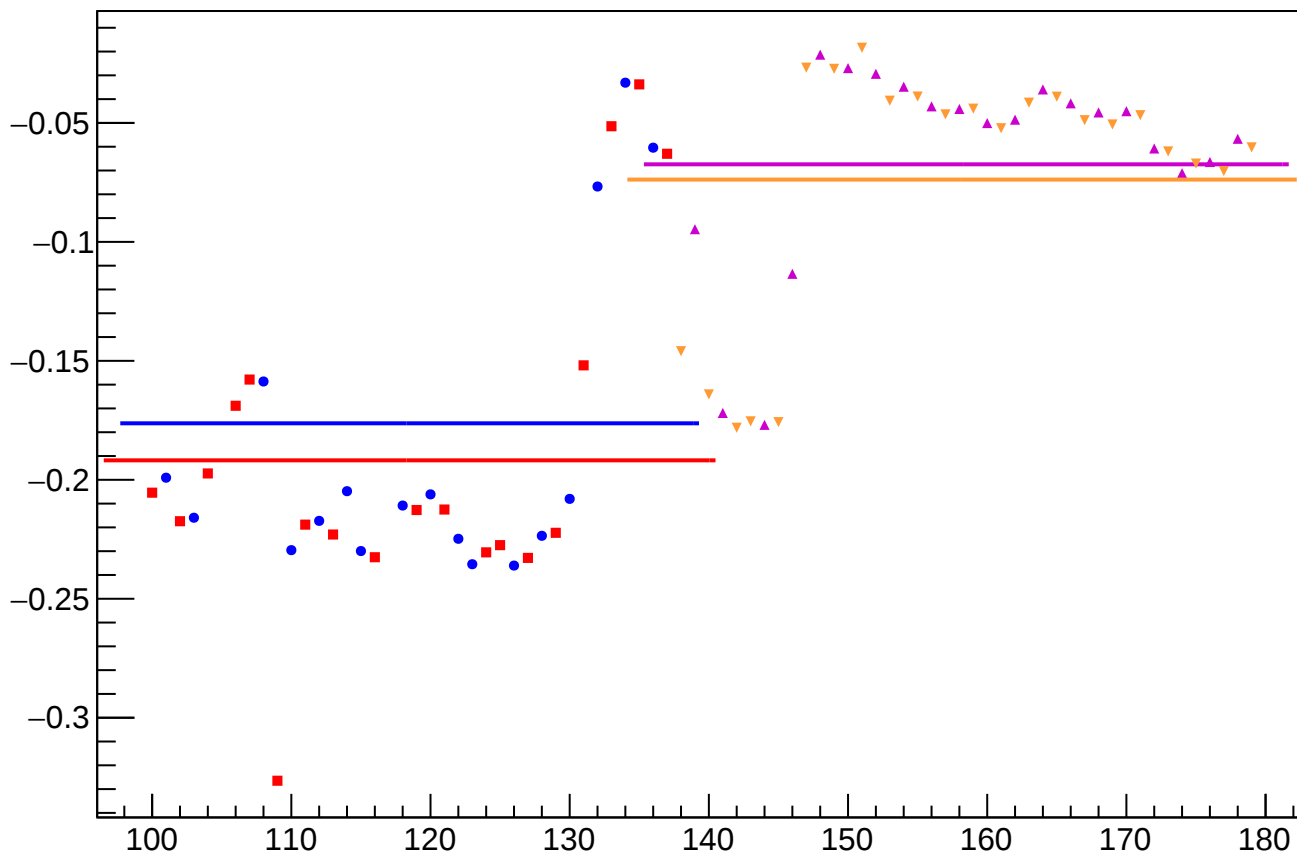
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF : 1983892.4/36

Out: 0.013+/-0.000 χ^2/NDF : 2185838.6/40

All: 0.013+/-0.000 χ^2/NDF : 4169760.3/77

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.074+/-0.000 χ^2/NDF : 101700208.1/21

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 : 178216550.6/41

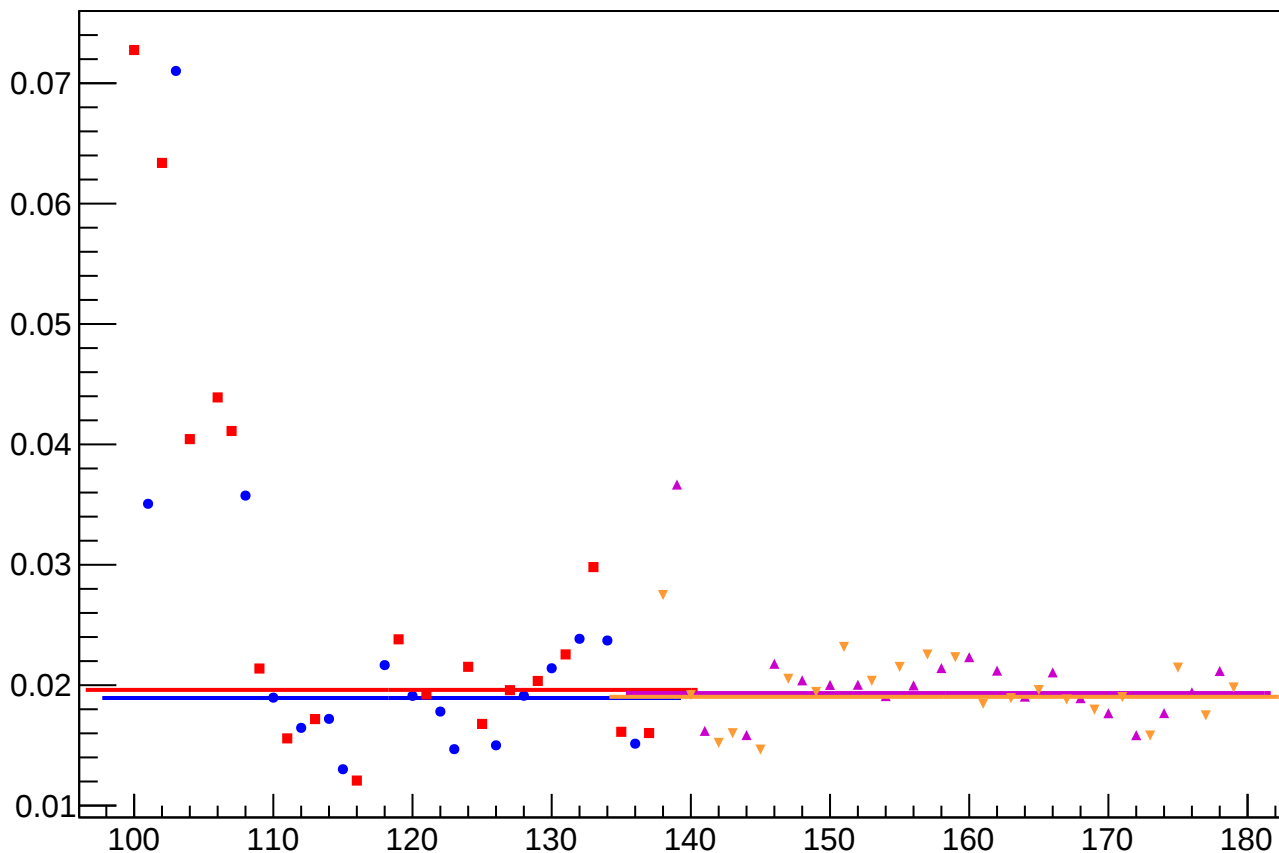
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.099+/-0.000 χ^2/NDF : 262807082.4/36

Out: -0.105+/-0.000 χ^2/NDF : 323619199.7/40

All: -0.102+/-0.000 χ^2/NDF : 587254005.3/77

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 : 507817.7/21

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 : 1083059.3/41

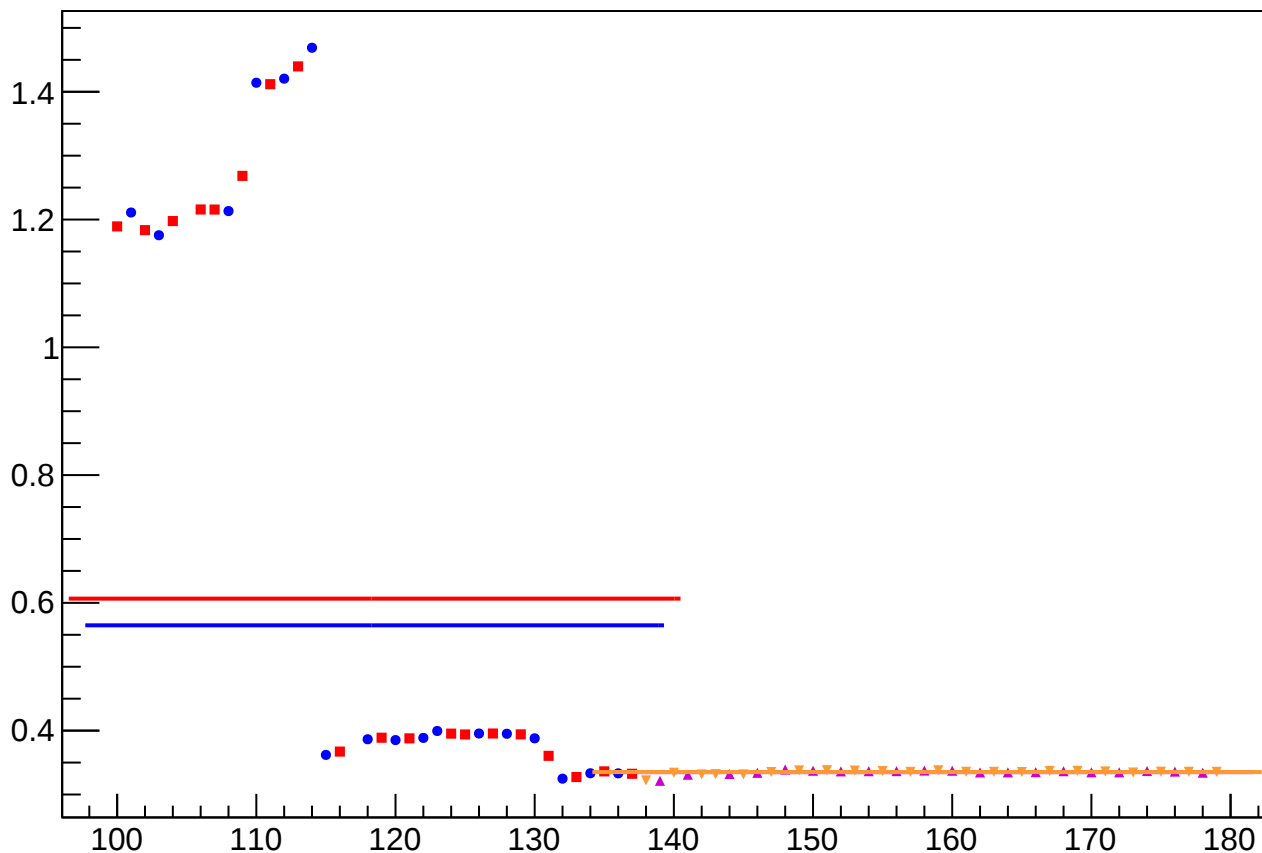
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1780979.8/36

Out: 0.019+/-0.000 χ^2/NDF : 1972045.4/40

All: 0.019+/-0.000 χ^2/NDF : 3753100.5/77

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 : 1137577.2/21

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 : 2337300.5/41

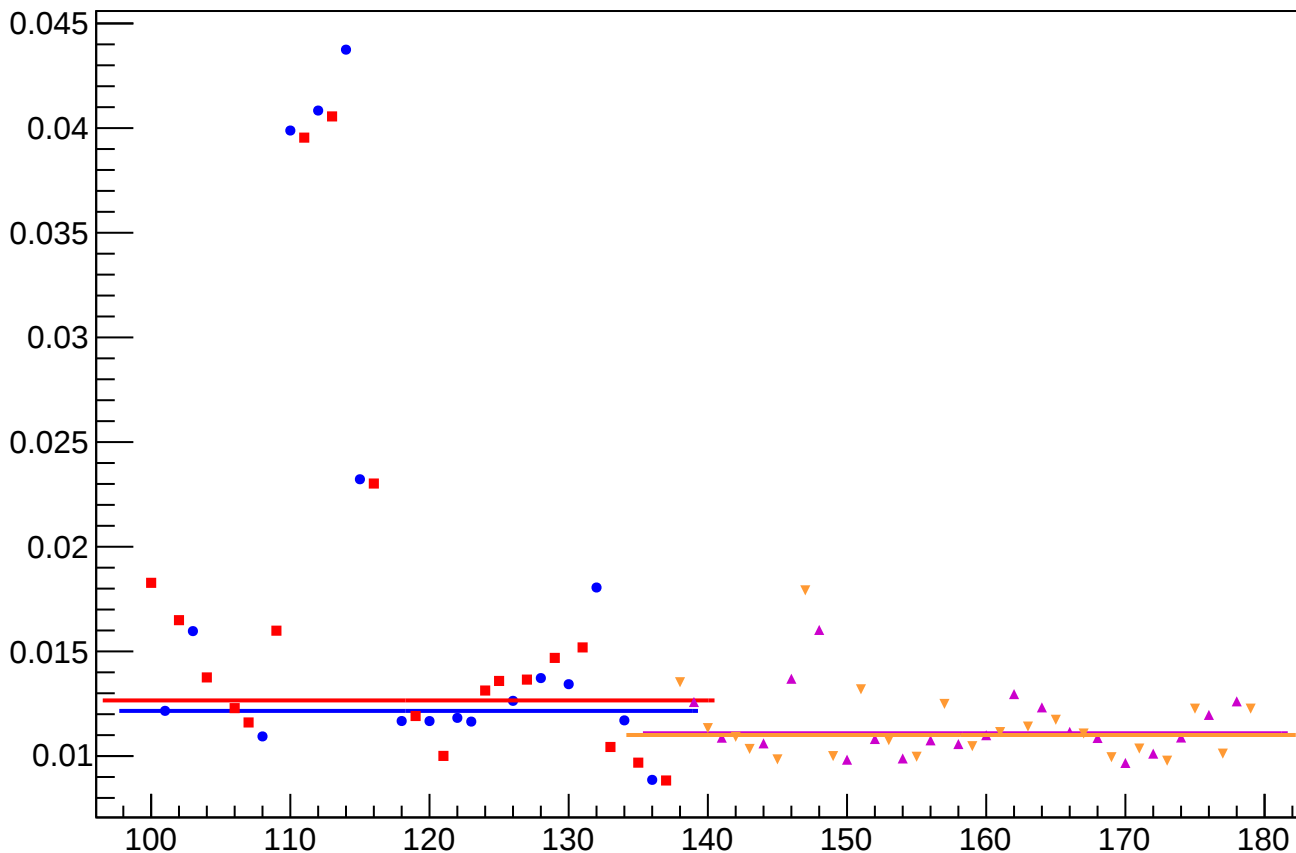
Right: 0.585+/-0.000 χ^2/NDF : 10577520536.9/35

In: 0.391+/-0.000 χ^2/NDF : 6564392781.3/36

Out: 0.395+/-0.000 χ^2/NDF : 7627593896.4/40

All: 0.393+/-0.000 χ^2/NDF : 14193354304.2/7

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:495552.6/21

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: 896494.0/41

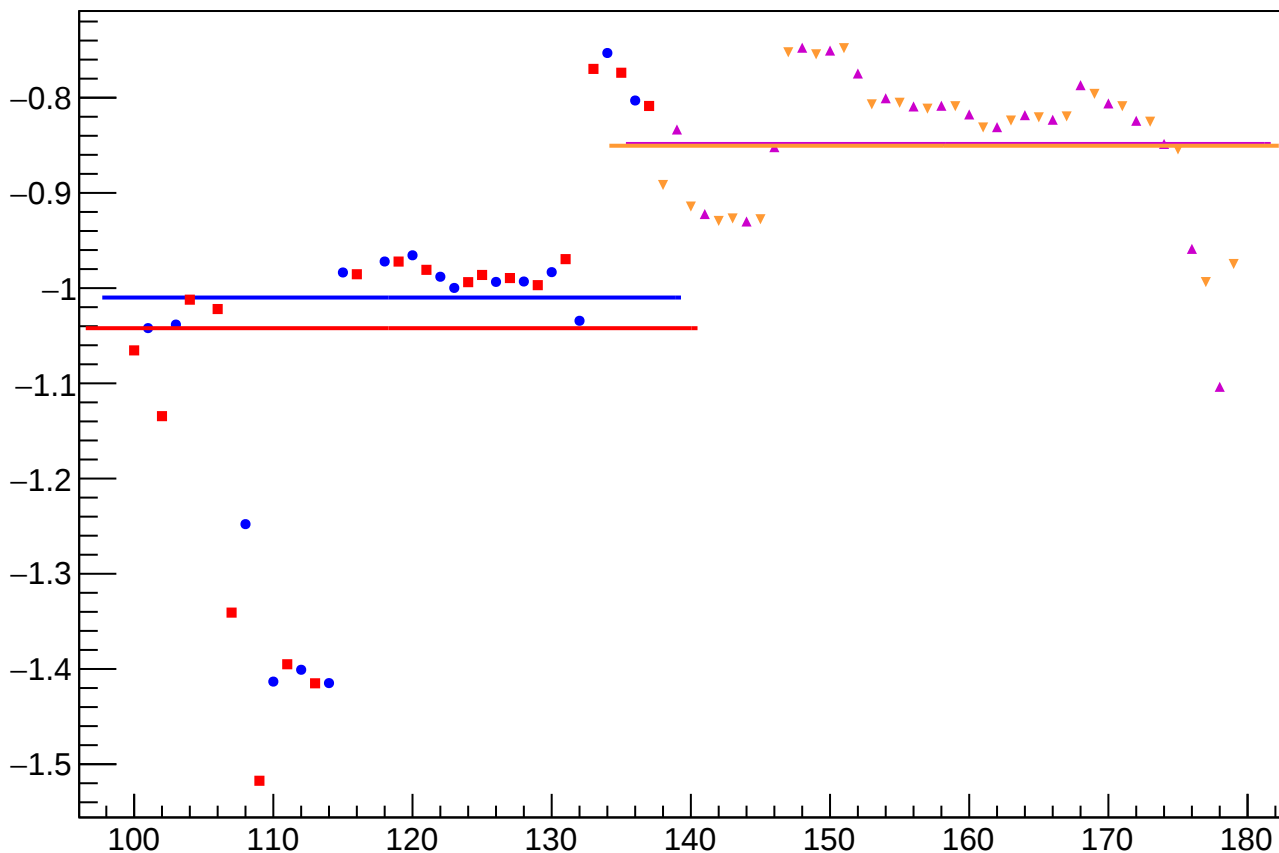
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1776162.5/36

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1922584.9/40

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3698823.9/77

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010+/-0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.850+/-0.000 χ^2/NDF : 179966584.8/21

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: -0.850+/-0.000 χ^2/NDF : 426201108.2/41

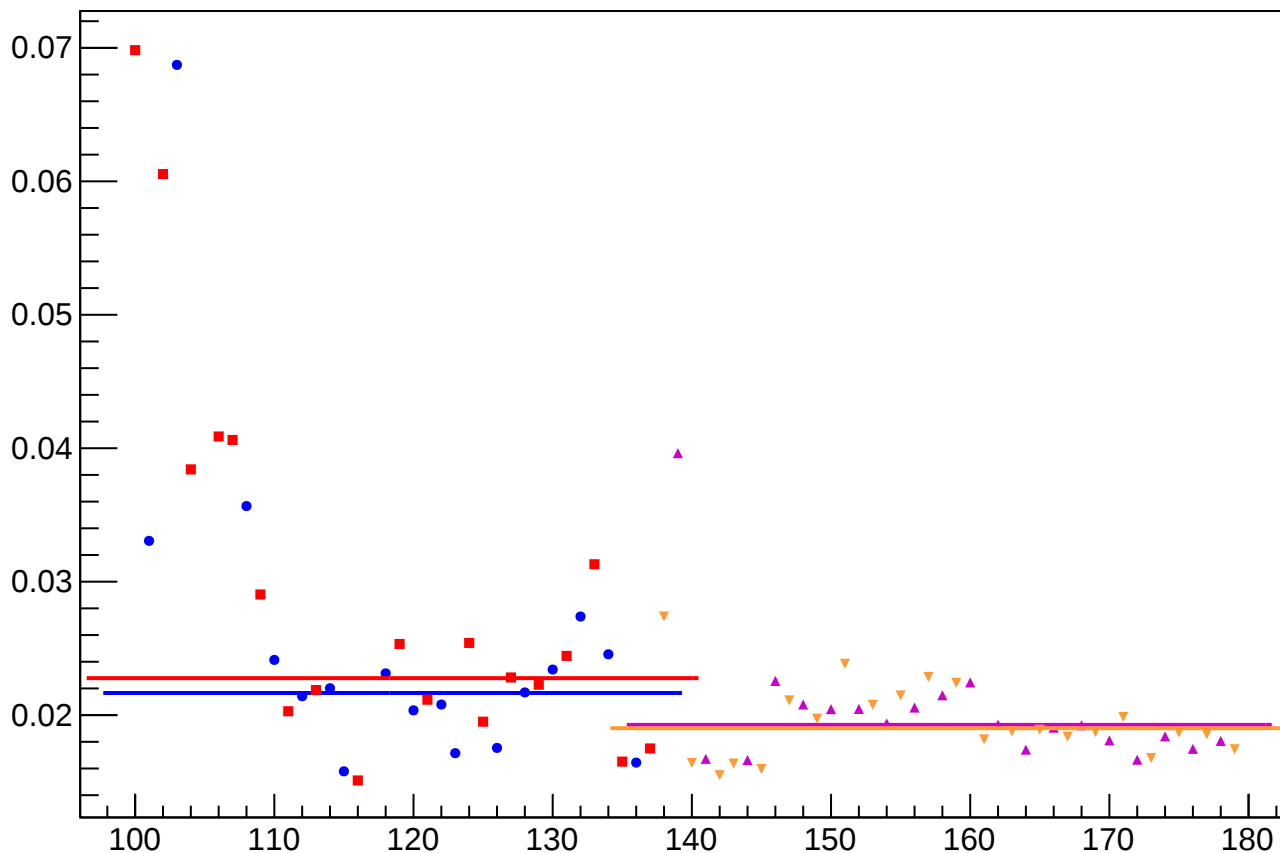
Right: -1.026+/-0.000 χ^2/NDF : 923225272.3/35

In: -0.888+/-0.000 χ^2/NDF : 847038069.4/36

Out: -0.892+/-0.000 χ^2/NDF : 1004762859.0/40

All: -0.890+/-0.000 χ^2/NDF : 1852172740.9/7

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 437040.8/21

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 : 1009190.9/41

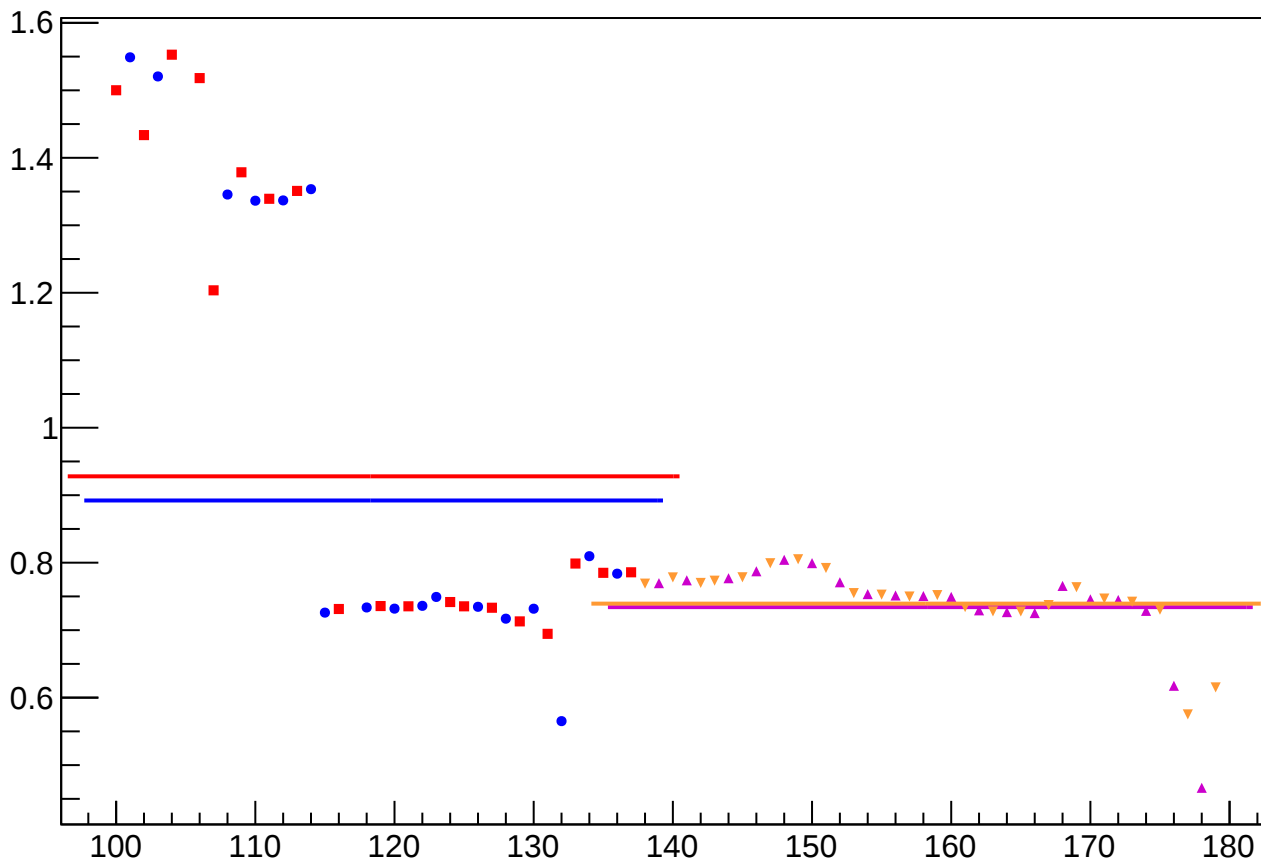
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1647168.0/36

Out: 0.020+/-0.000 χ^2/NDF : 1815521.8/40

All: 0.020+/-0.000 χ^2/NDF : 3462703.6/77

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.739 $\pm$ 0.000 χ^2/NDF : 315224667.0/21

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: 0.737 $\pm$ 0.000 χ^2/NDF : 855856470.1/41

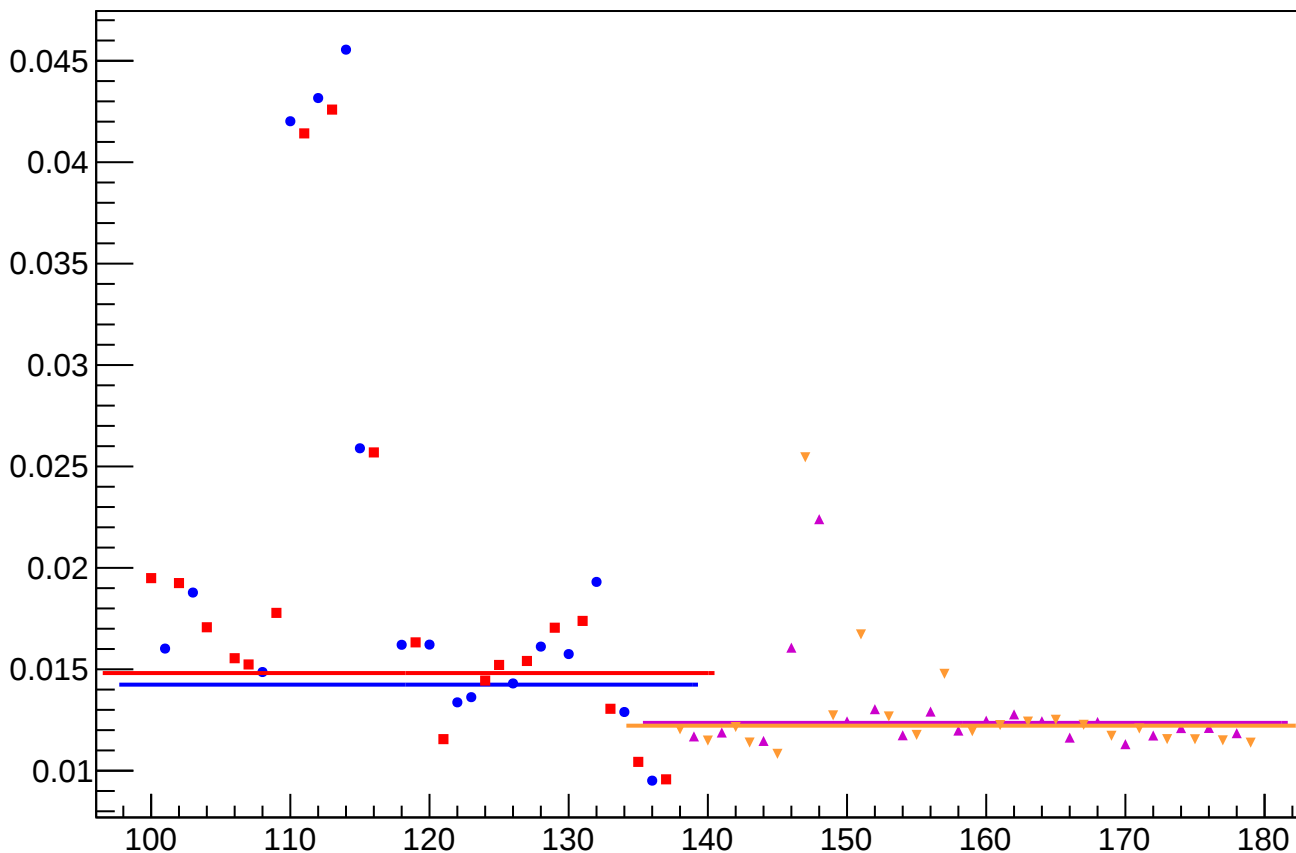
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.769 $\pm$ 0.000 χ^2/NDF : 3493088016.8/36

Out: 0.778 $\pm$ 0.000 χ^2/NDF : 3524885171.4/40

All: 0.774 $\pm$ 0.000 χ^2/NDF : 7022724109.4/77

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1415681.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 623510.8/21

Right Out: 0.015+/-0.000 χ^2/NDF : 1274172.7/18

Left In: 0.012+/-0.000 χ^2/NDF : 440670.7/19

Left: 0.012+/-0.000 χ^2/NDF : 1066093.1/41

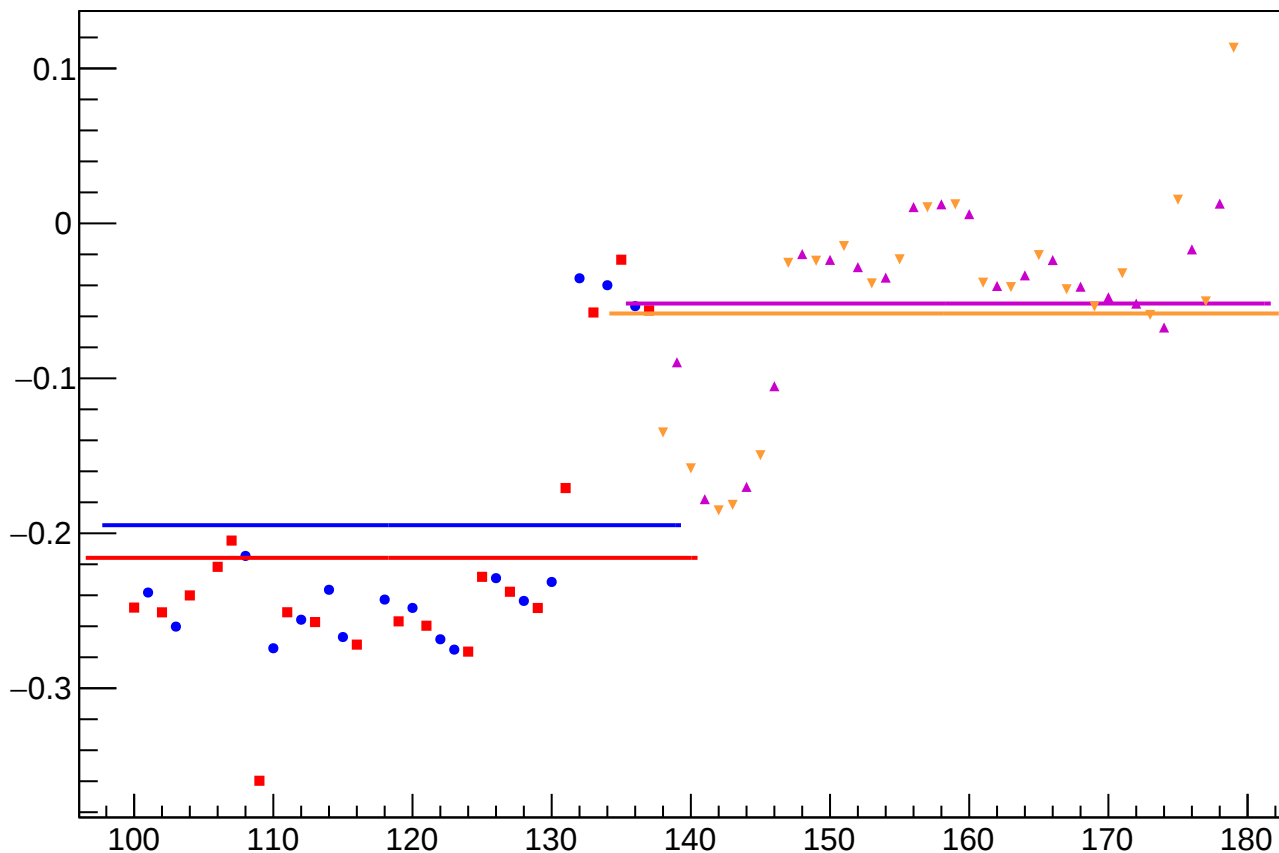
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF : 2010081.9/36

Out: 0.013+/-0.000 χ^2/NDF : 2189592.4/40

All: 0.013+/-0.000 χ^2/NDF : 4199762.8/77

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195+/-0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.058+/-0.000 χ^2/NDF : 143104906.2/21

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: -0.055+/-0.000 χ^2/NDF : 249883734.2/41

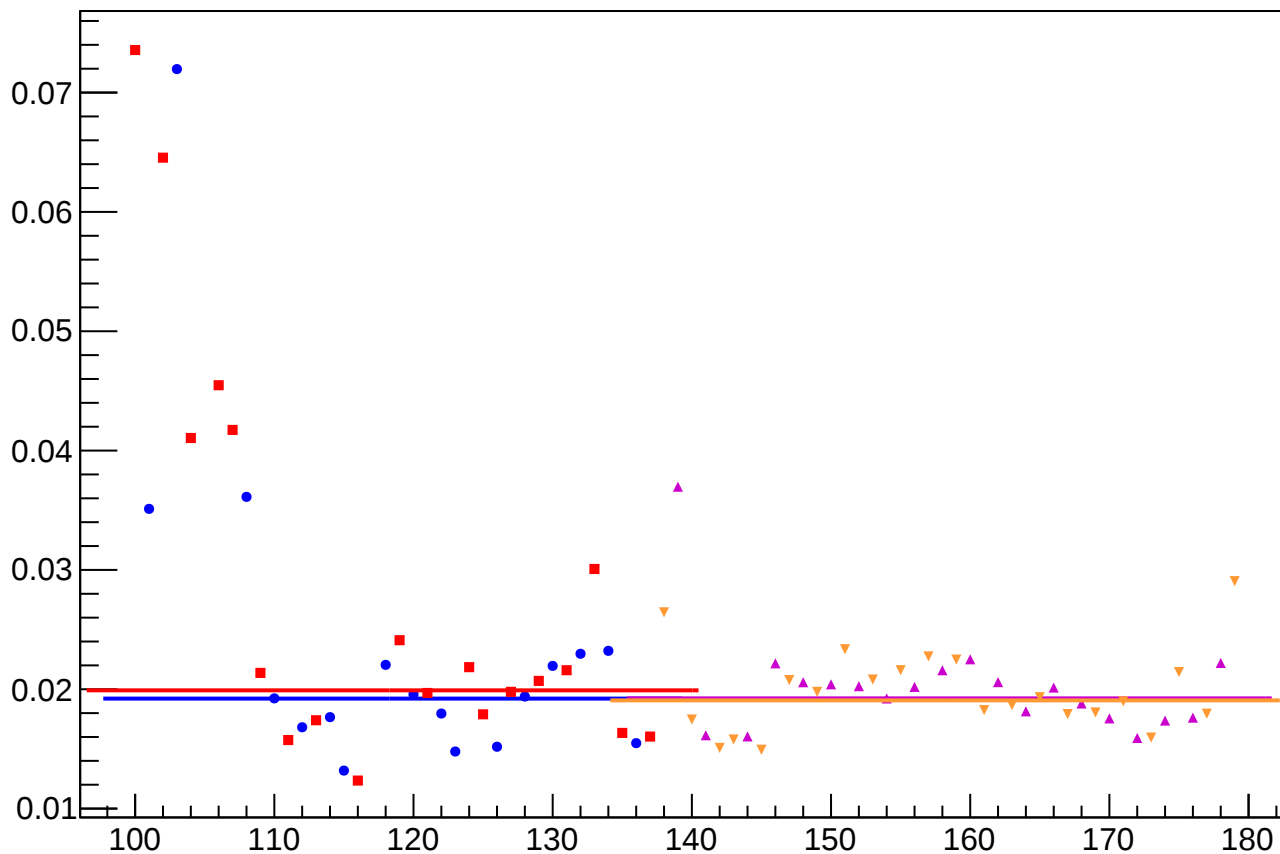
Right: -0.205+/-0.000 χ^2/NDF : 223598203.8/35

In: -0.093+/-0.000 χ^2/NDF : 412539786.2/36

Out: -0.100+/-0.000 χ^2/NDF : 493846373.2/40

All: -0.097+/-0.000 χ^2/NDF : 907614051.3/77

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 : 609401.2/21

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 : 1216319.3/41

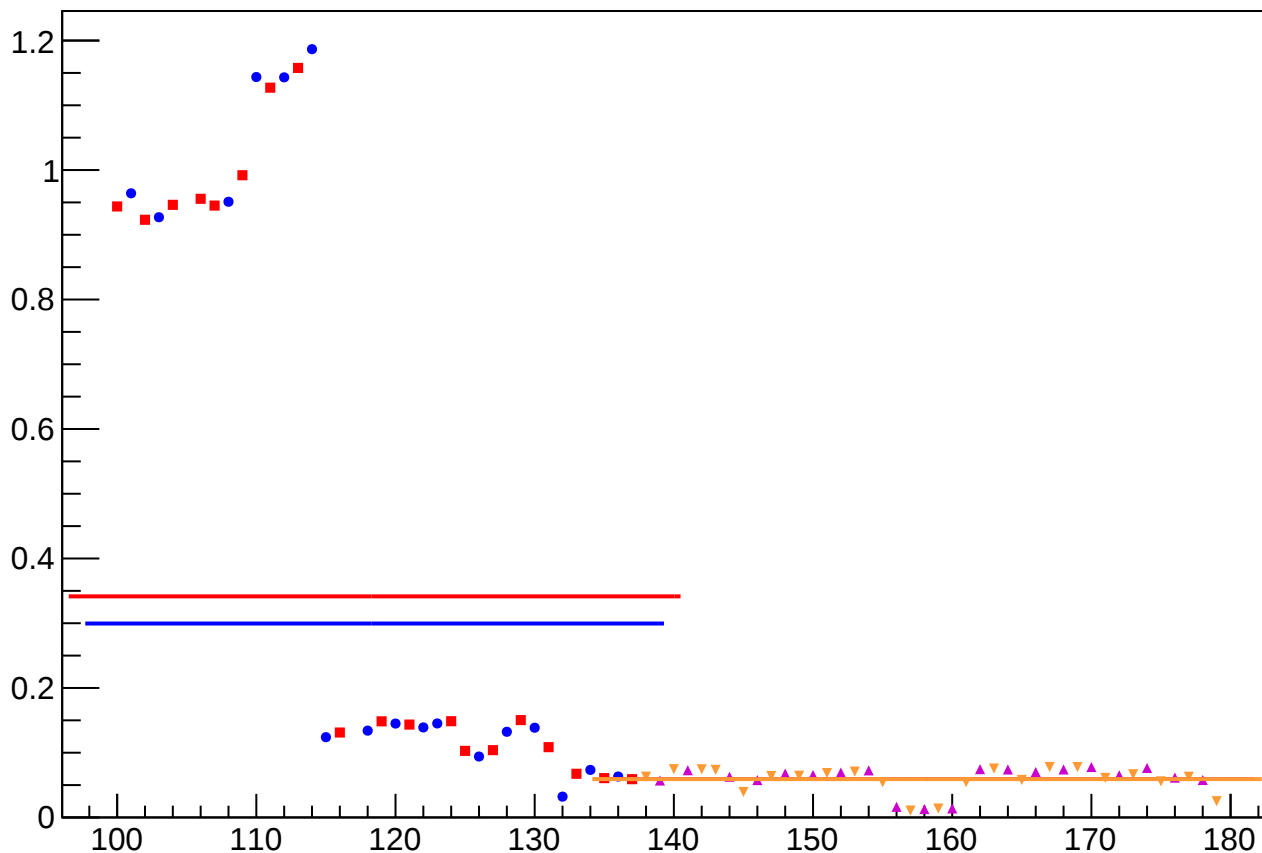
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1783017.5/36

Out: 0.019+/-0.000 χ^2/NDF : 2069968.5/40

All: 0.019+/-0.000 χ^2/NDF : 3853163.5/77

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.059+/-0.000 χ^2/NDF : 45975111.6/21

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: 0.059+/-0.000 χ^2/NDF : 103203142.5/41

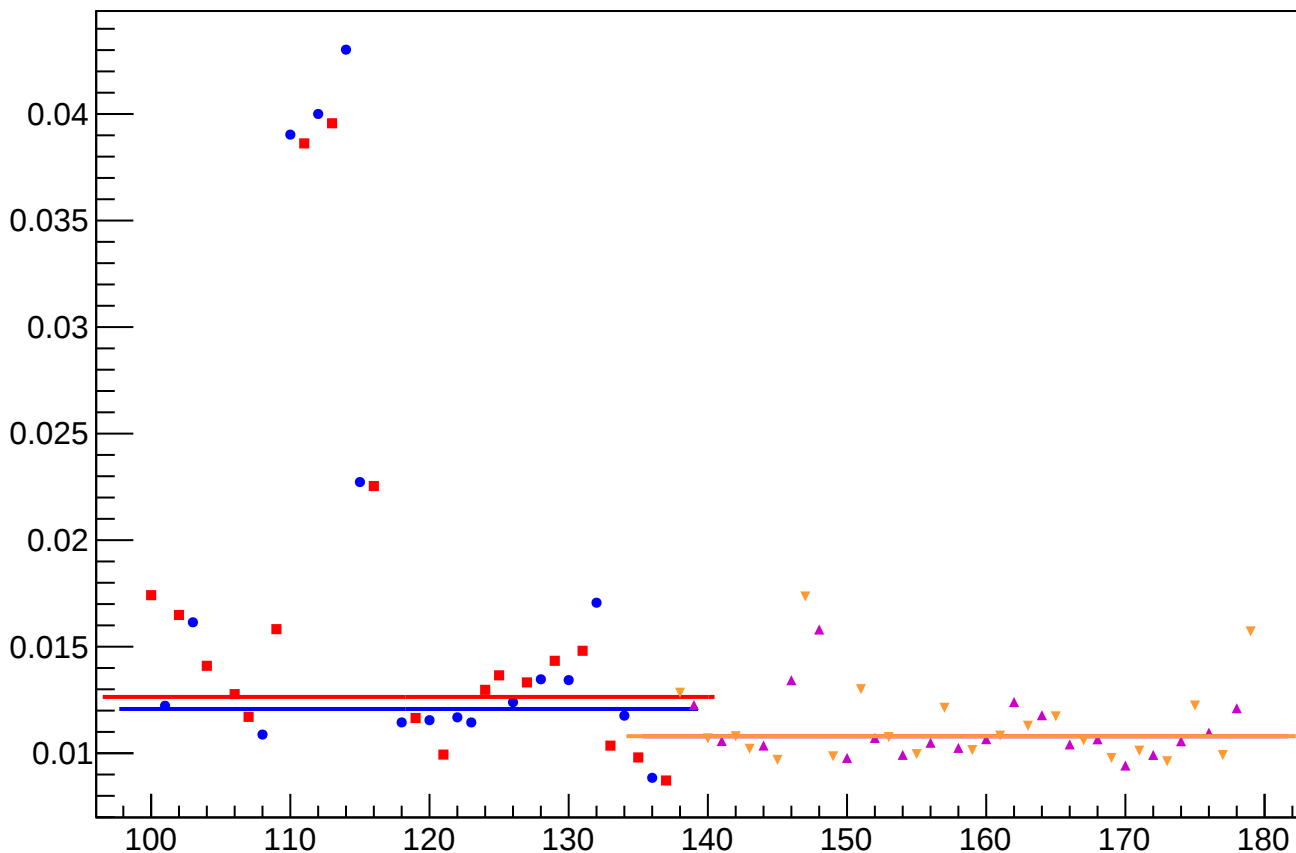
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.116+/-0.000 χ^2/NDF : 6933449736.9/36

Out: 0.121+/-0.000 χ^2/NDF : 7790623765.4/40

All: 0.119+/-0.000 χ^2/NDF : 14725940977.6/77

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:534723.3/21

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: 901004.1/41

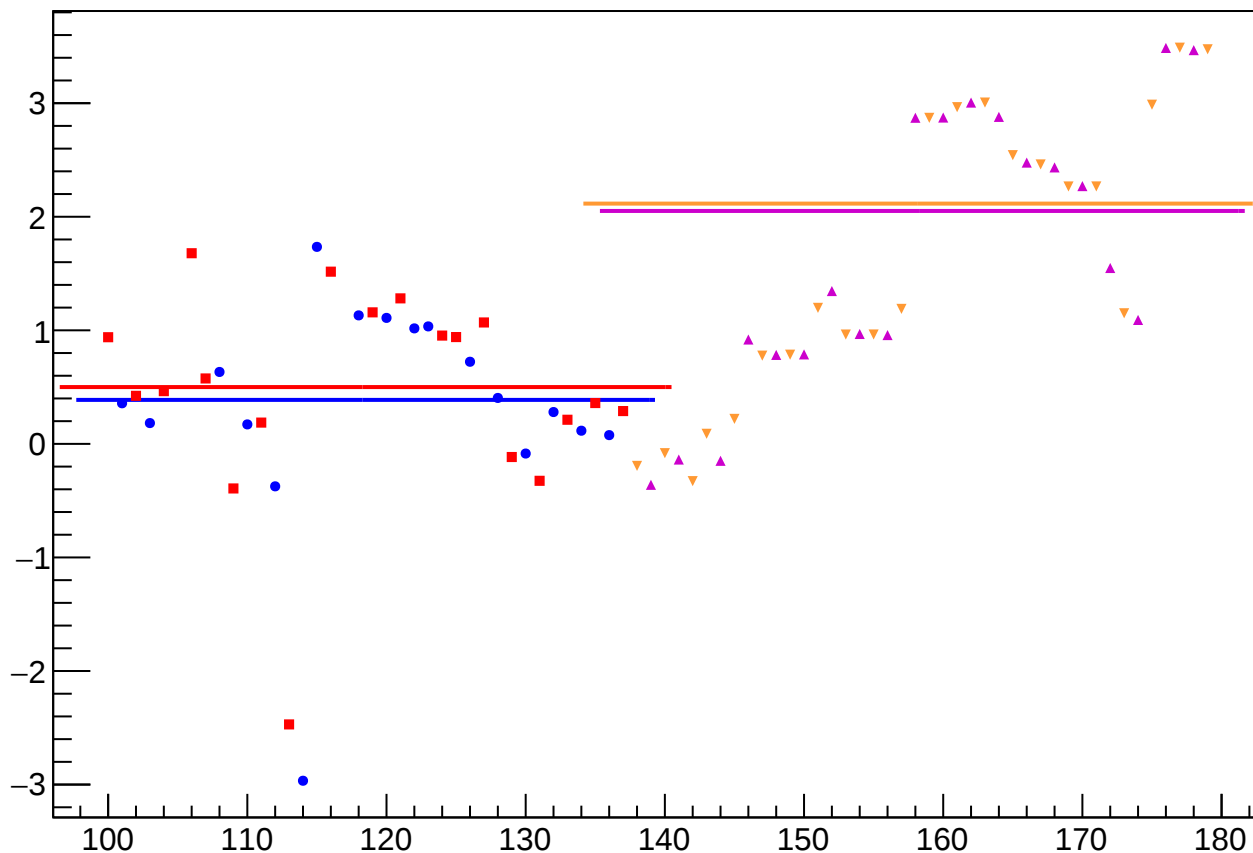
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1745975.4/36

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1967908.3/40

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3715744.9/77

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387+/-0.000 χ^2/NDF : 247912593.5/16

Left Out: 2.116+/-0.000 χ^2/NDF : 42970788285.5/21

Right Out: 0.500+/-0.000 χ^2/NDF : 983360928.1/18

Left In: 2.051+/-0.000 χ^2/NDF : 42150979049.1/19

Left: 2.083+/-0.000 χ^2/NDF : 85215086152.2/41

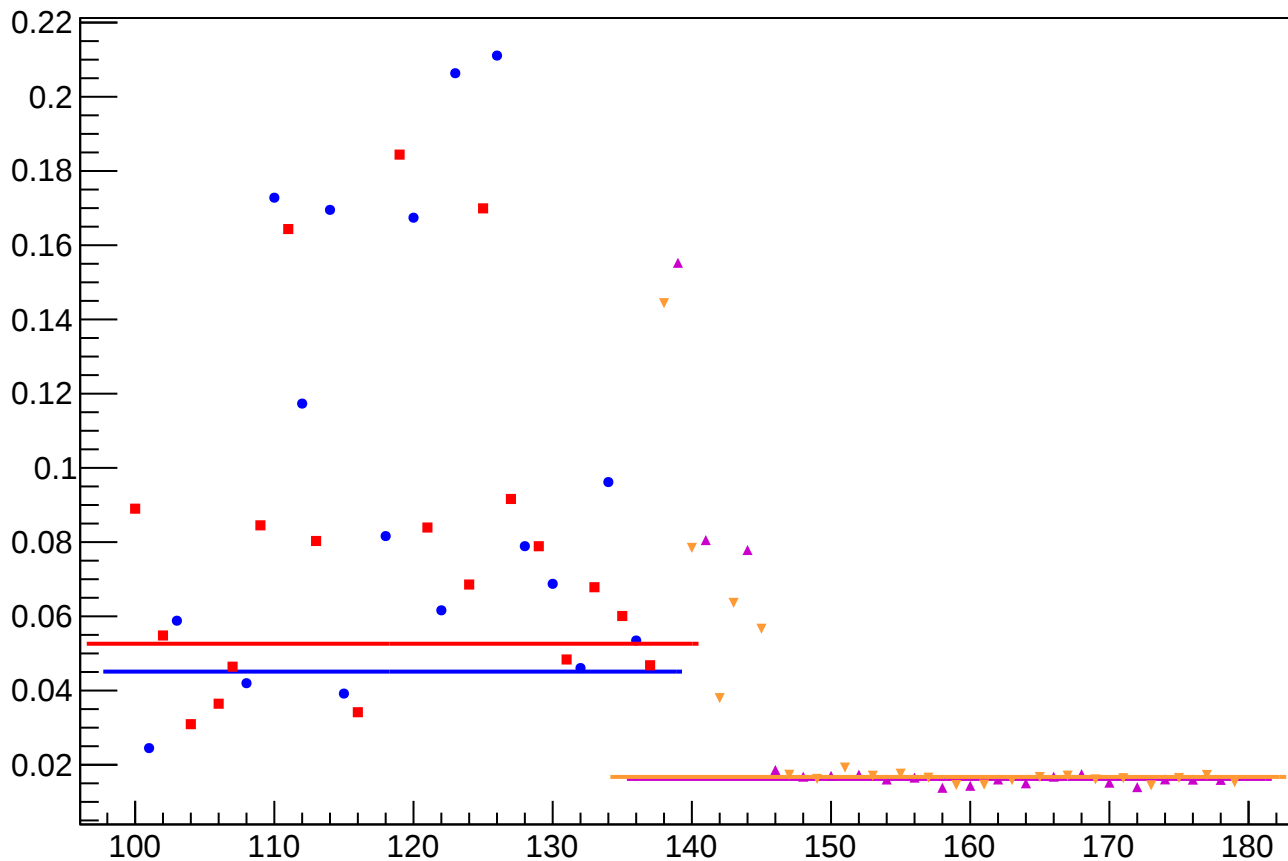
Right: 0.439+/-0.000 χ^2/NDF : 1241544973.3/35

In: 1.988+/-0.000 χ^2/NDF : 47057345870.0/36

Out: 2.063+/-0.000 χ^2/NDF : 47723785728.2/40

All: 2.026+/-0.000 χ^2/NDF : 94911016944.6/71

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 : 2789716.8/21

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 : 5183882.0/41

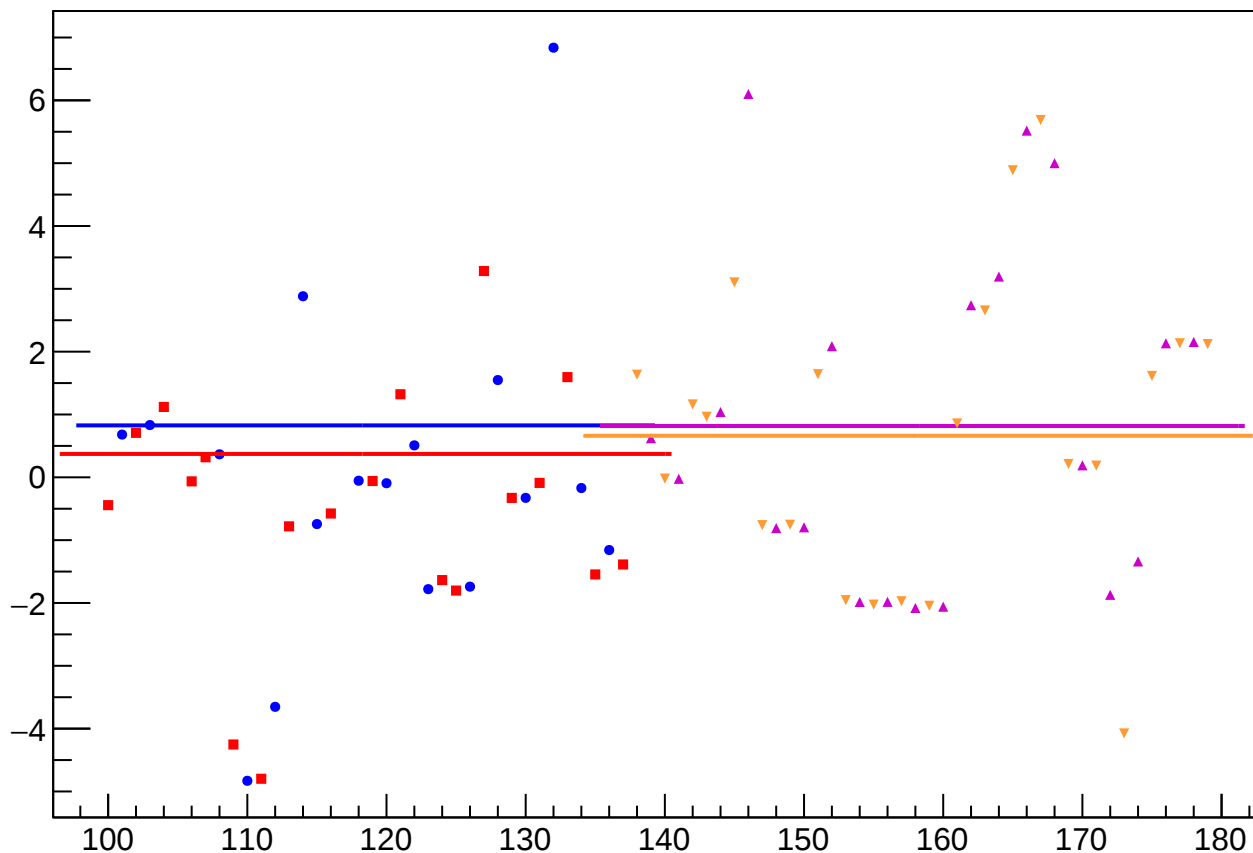
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.017+/-0.000 χ^2/NDF : 8041711.4/36

Out: 0.018+/-0.000 χ^2/NDF : 8700452.4/40

All: 0.018+/-0.000 χ^2/NDF : 16759545.0/77

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000

χ^2/NDF : 10936458870.4/16

Left: 0.738+/-0.000

χ^2/NDF : 1051585138715.6/41

Left Out: 0.661+/-0.000

χ^2/NDF : 495661575574.0/21

Right: 0.613+/-0.000

χ^2/NDF : 16291516809.6/35

Right Out: 0.372+/-0.000

χ^2/NDF : 4972900338.2/18

In: 0.817+/-0.000

χ^2/NDF : 565977499672.5/36

Left In: 0.817+/-0.000

χ^2/NDF : 555040667496.4/19

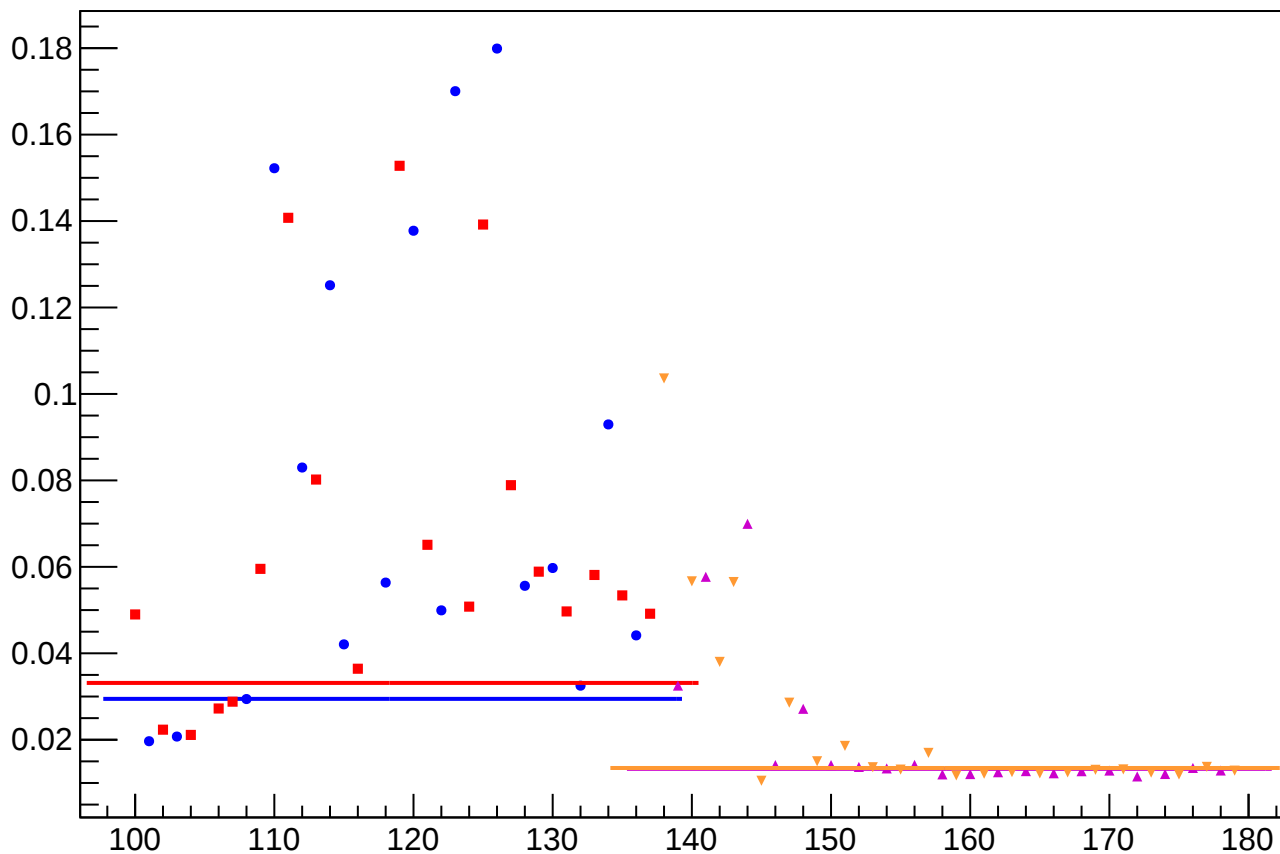
Out: 0.648+/-0.000

χ^2/NDF : 500913462749.0/40

All: 0.732+/-0.000

χ^2/NDF : 1067988211654.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3053519.6/16

Left Out: 0.013+/-0.000 χ^2/NDF :2895188.1/21

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 : 4827082.6/41

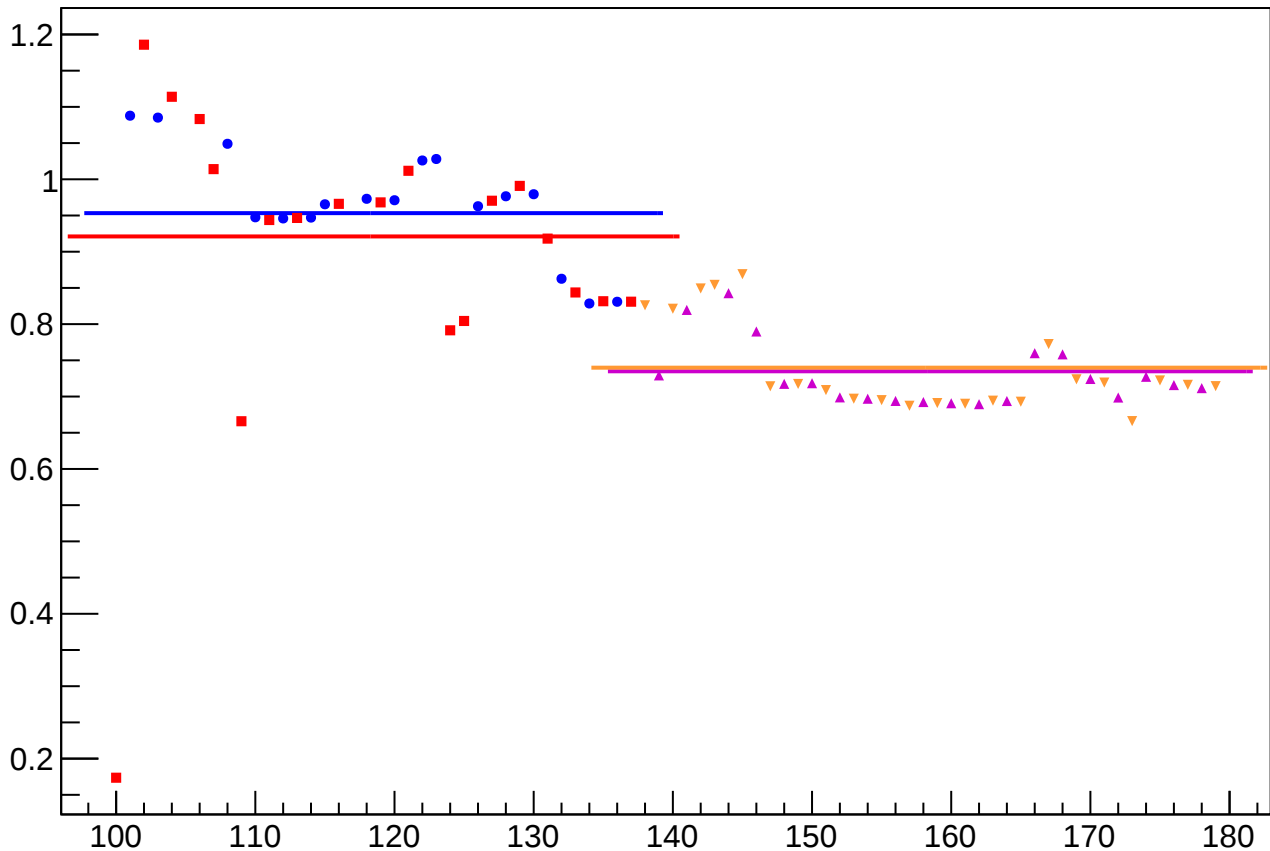
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.014+/-0.000 χ^2/NDF :6939672.3/36

Out: 0.014+/-0.000 χ^2/NDF :8578901.9/40

All: 0.014+/-0.000 χ^2/NDF : 15523687.6/77

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953 $\pm$ 0.000 χ^2 /NDF: 175396553.4/16

Left Out: 0.740 $\pm$ 0.000 χ^2 /NDF:293803974.9/21

Right Out: 0.921 $\pm$ 0.000 χ^2 /NDF: 374221279.1/18

Left In: 0.735 $\pm$ 0.000 χ^2 /NDF:166752208.6/19

Left: 0.737 $\pm$ 0.000 χ^2 /NDF: 461474032.0/41

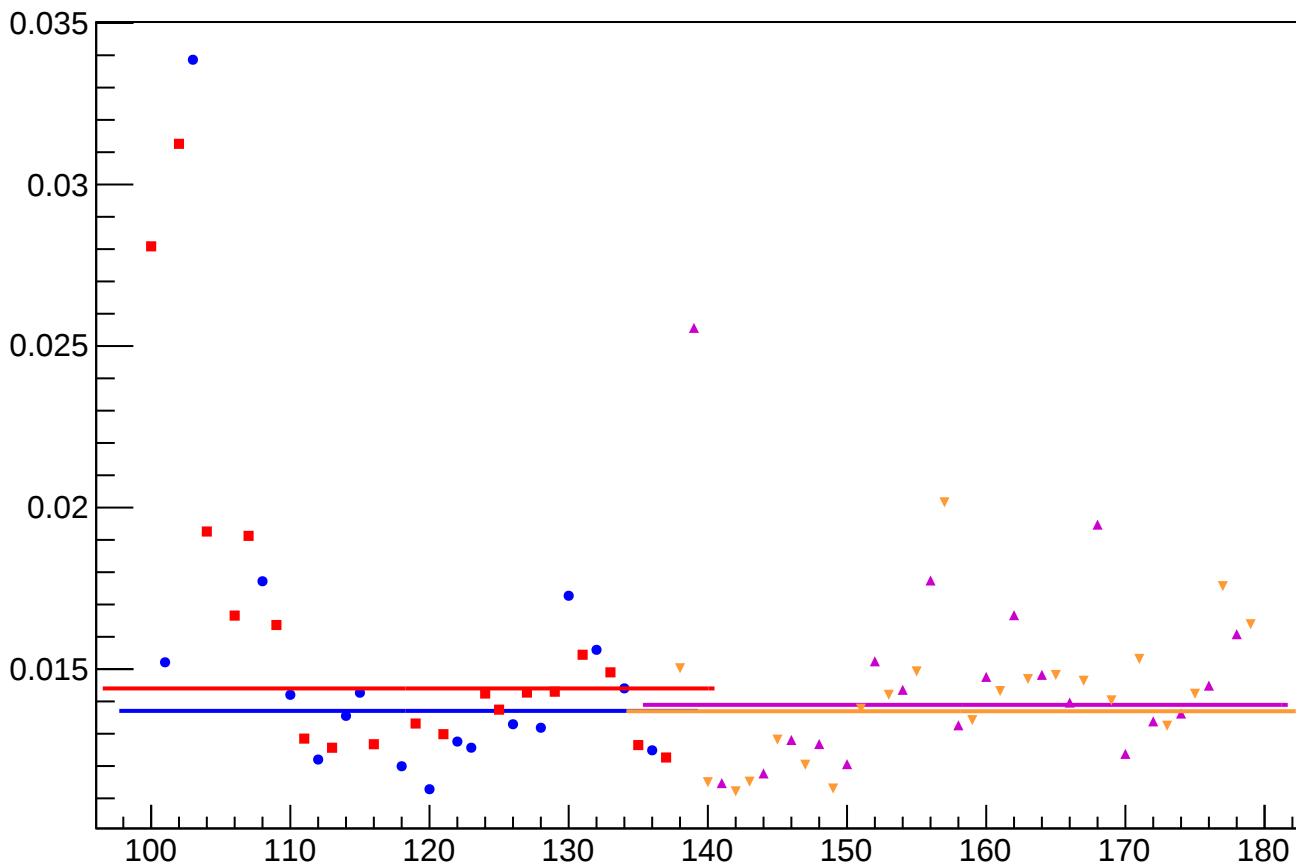
Right: 0.938 $\pm$ 0.000 χ^2 /NDF: 565209467.5/35

In: 0.801 $\pm$ 0.000 χ^2 /NDF:1369186719.0/36

Out: 0.790 $\pm$ 0.000 χ^2 /NDF:1366376065.7/40

All: 0.795 $\pm$ 0.000 χ^2 /NDF: 2742473537.7/77

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 : 511163.4/21

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 : 1270244.0/41

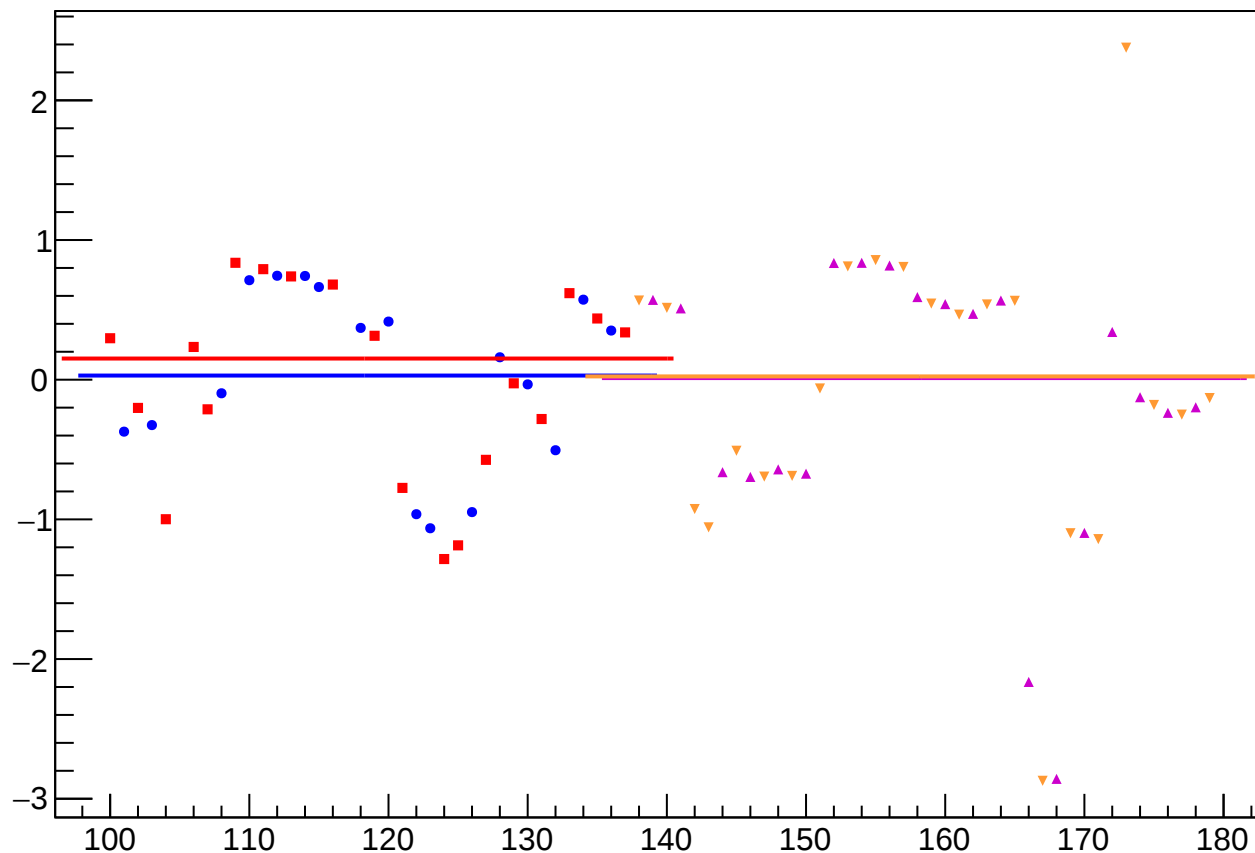
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1304022.4/36

Out: 0.014+/-0.000 χ^2/NDF : 1034073.2/40

All: 0.014+/-0.000 χ^2/NDF : 2338397.0/77

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 6294824795.0/16

Left: 0.018+/-0.000

χ^2/NDF : 174355608386.7/41

Left Out: 0.024+/-0.000

χ^2/NDF : 95589807797.8/21

Right: 0.096+/-0.000

χ^2/NDF : 19149304558.7/35

Right Out: 0.152+/-0.000

χ^2/NDF : 12661812059.7/18

In: 0.015+/-0.000

χ^2/NDF : 85059969345.9/36

Out: 0.052+/-0.000

χ^2/NDF : 108615176750.5/40

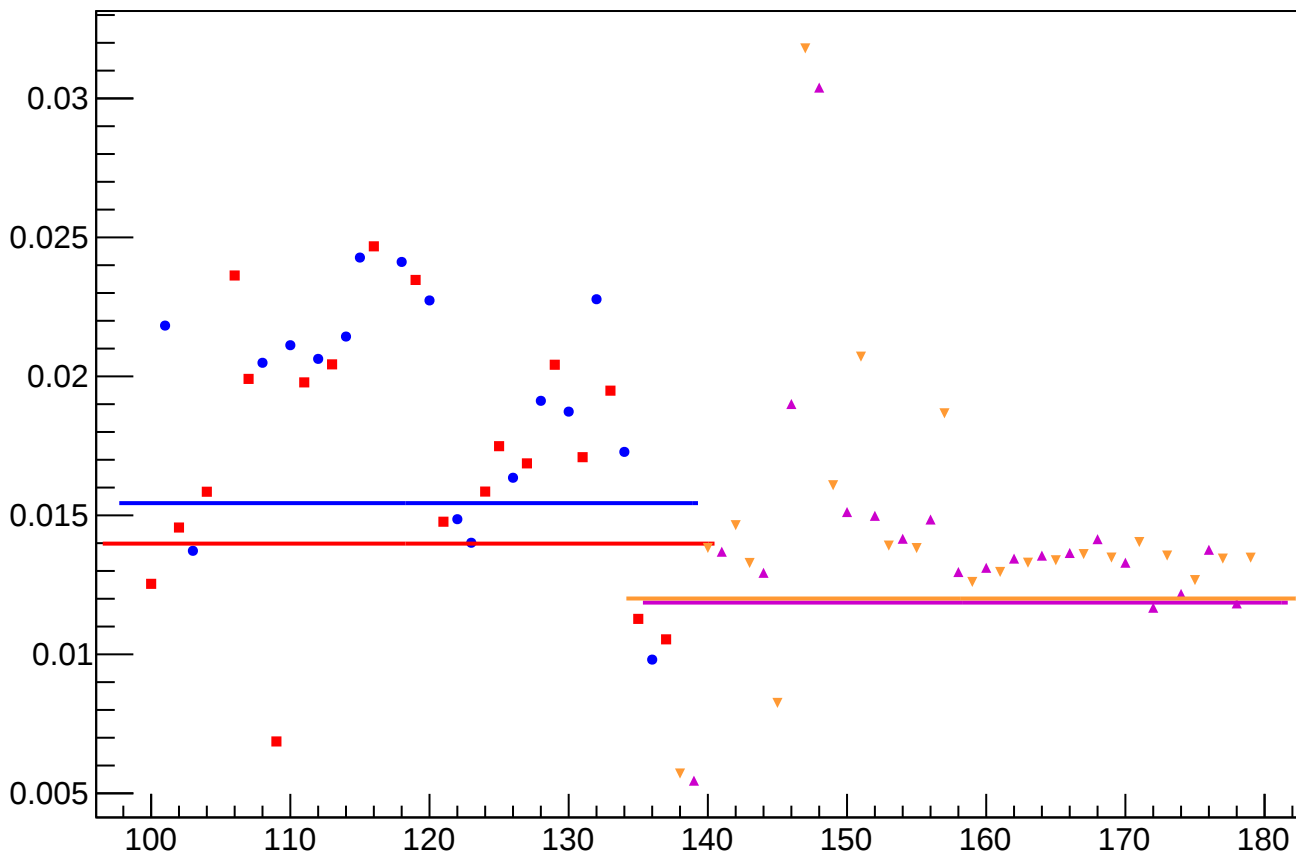
Left In: 0.012+/-0.000

χ^2/NDF : 78759003823.1/19

All: 0.035+/-0.000

χ^2/NDF : 193758919494.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3084462.1/21

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 : 6055621.5/41

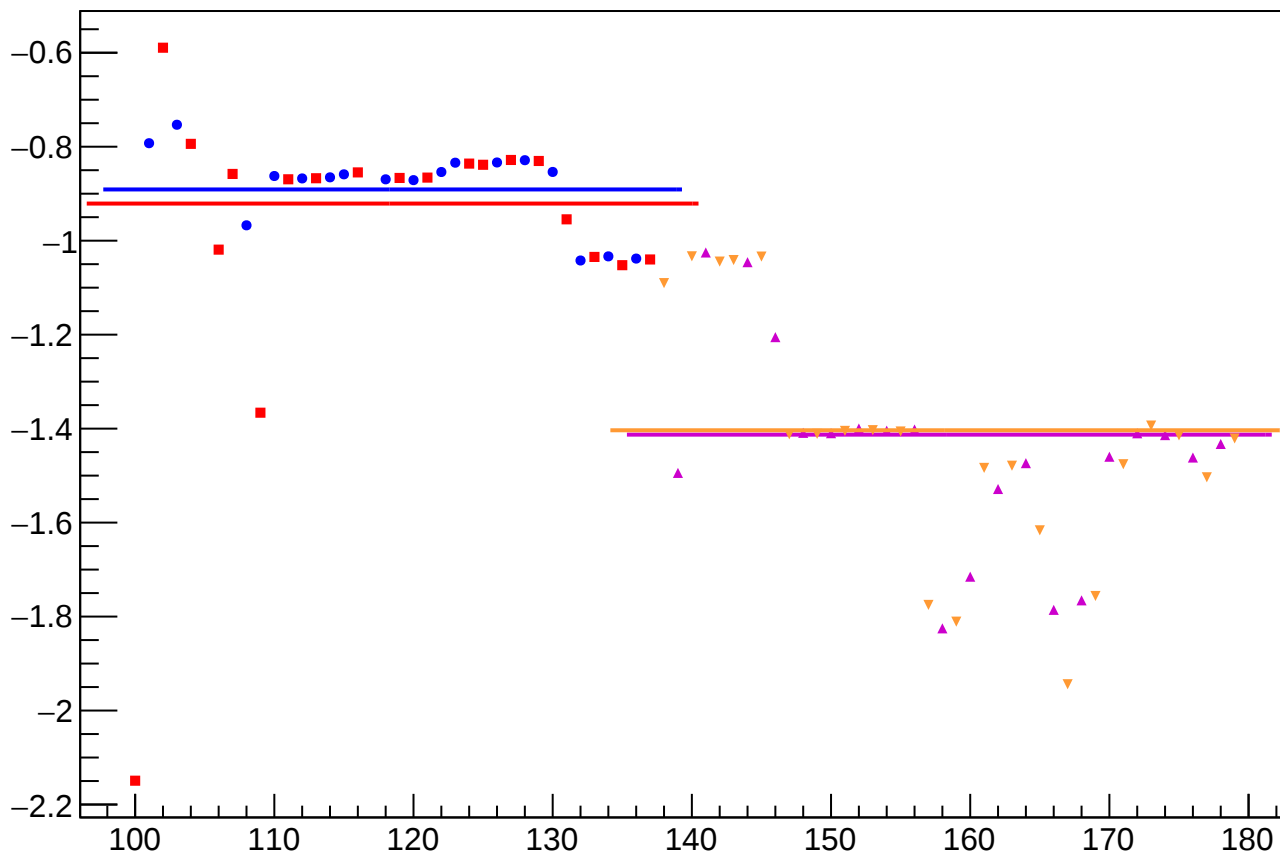
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4615706.7/36

Out: 0.012+/-0.000 χ^2/NDF : 4818382.2/40

All: 0.013+/-0.000 χ^2/NDF : 9436210.0/77

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.403 ± 0.000 χ^2/NDF : 721707100.6/21

Right Out: -0.921 ± 0.000 χ^2/NDF : 131183059.9/18

Left In: -1.413 ± 0.000 χ^2/NDF : 512265965.9/19

Left: -1.408 ± 0.000 χ^2/NDF : 1234446420.0/41

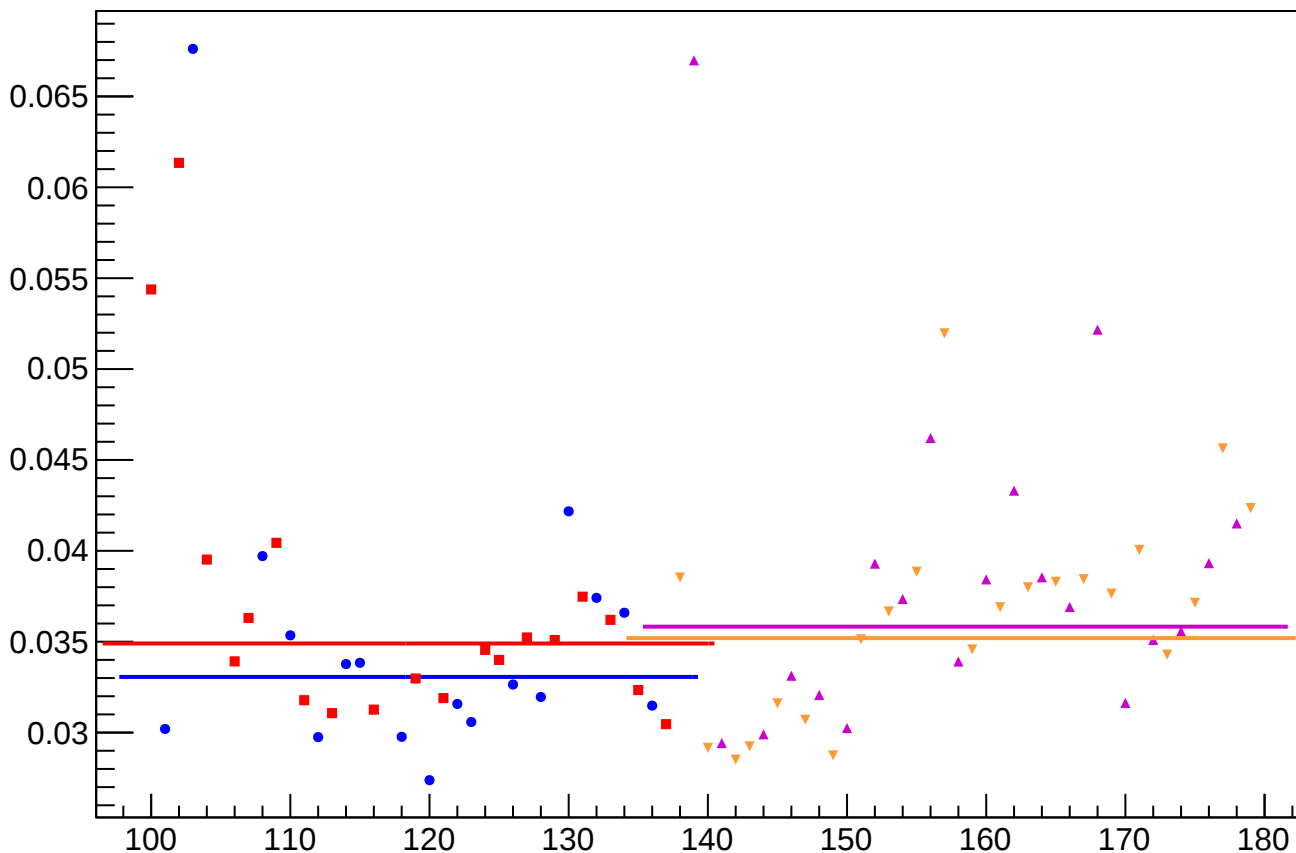
Right: -0.906 ± 0.000 χ^2/NDF : 173111604.1/35

In: -1.236 ± 0.000 χ^2/NDF : 1519643588.7/36

Out: -1.257 ± 0.000 χ^2/NDF : 1671507216.0/40

All: -1.247 ± 0.000 χ^2/NDF : 3194557574.8/77

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 : 576545.1/21

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 : 1429021.1/41

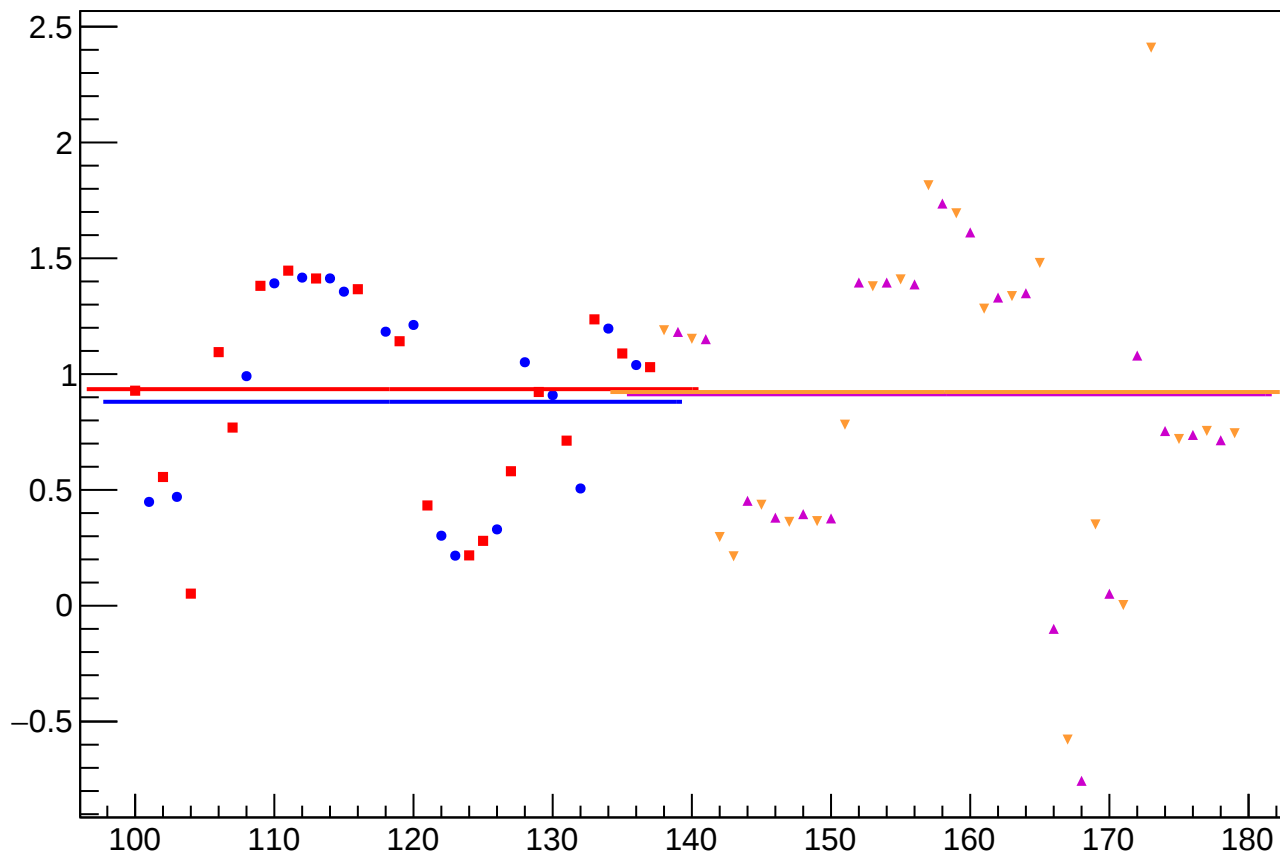
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF : 1311728.9/36

Out: 0.035+/-0.000 χ^2/NDF : 851427.3/40

All: 0.035+/-0.000 χ^2/NDF : 2163908.2/77

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880+/-0.000

χ^2/NDF : 6400108121.4/16

Left: 0.918+/-0.000 χ^2/NDF : 149421920792.0/41

Right: 0.909+/-0.000 χ^2/NDF : 16315238009.2/35

Left Out: 0.923+/-0.000

χ^2/NDF : 83239756643.7/21

In: 0.905+/-0.000 χ^2/NDF : 72615783507.9/36

Right Out: 0.935+/-0.000

χ^2/NDF : 9833525935.6/18

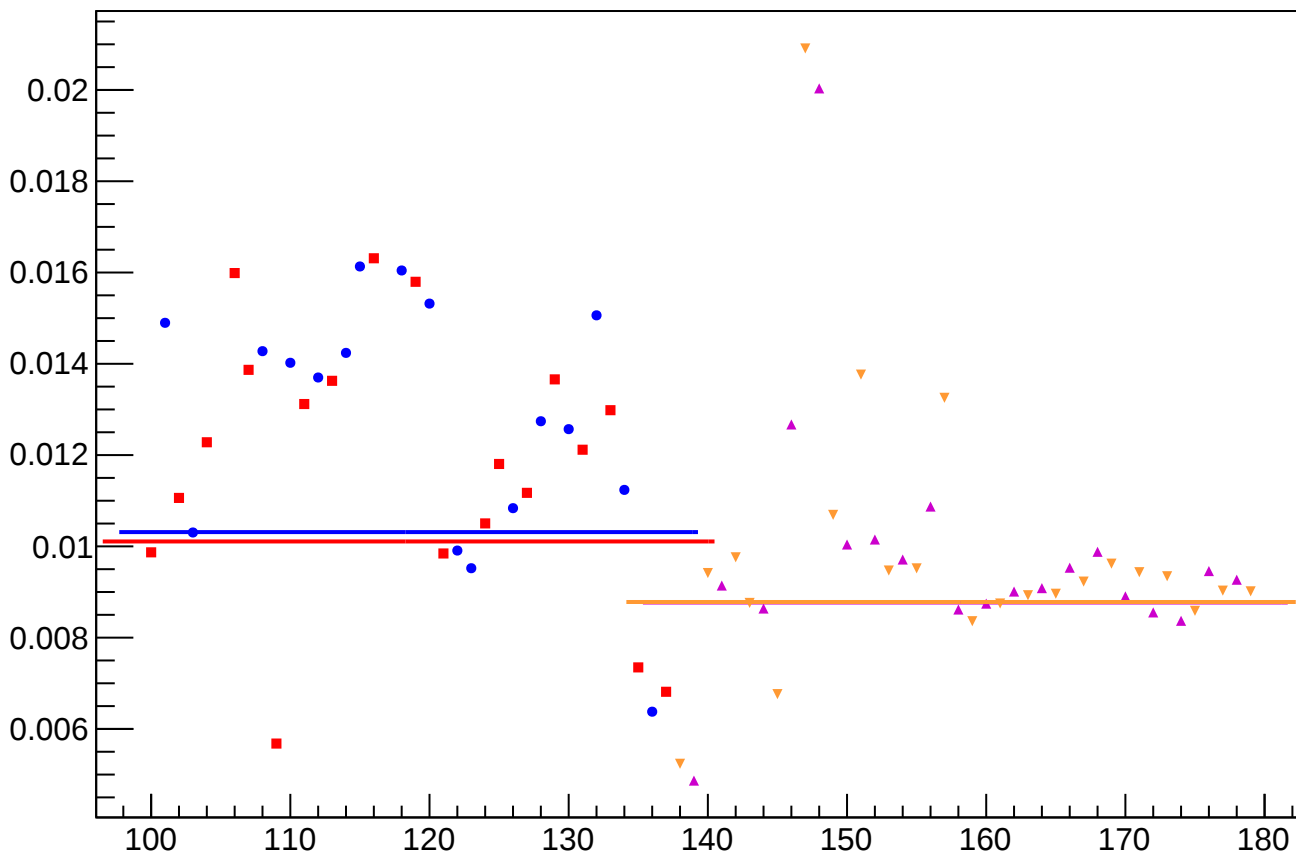
Out: 0.925+/-0.000 χ^2/NDF : 93080058725.1/40

Left In: 0.913+/-0.000

χ^2/NDF : 66173054207.0/19

All: 0.916+/-0.000 χ^2/NDF : 165744153887.3

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1231066.2/16

Left Out: 0.009+/-0.000 χ^2/NDF :1696550.7/21

Right Out: 0.010+/-0.000 χ^2/NDF : 1178489.1/18

Left In: 0.009+/-0.000 χ^2/NDF :1607872.2/19

Left: 0.009+/-0.000 χ^2/NDF : 3304448.0/41

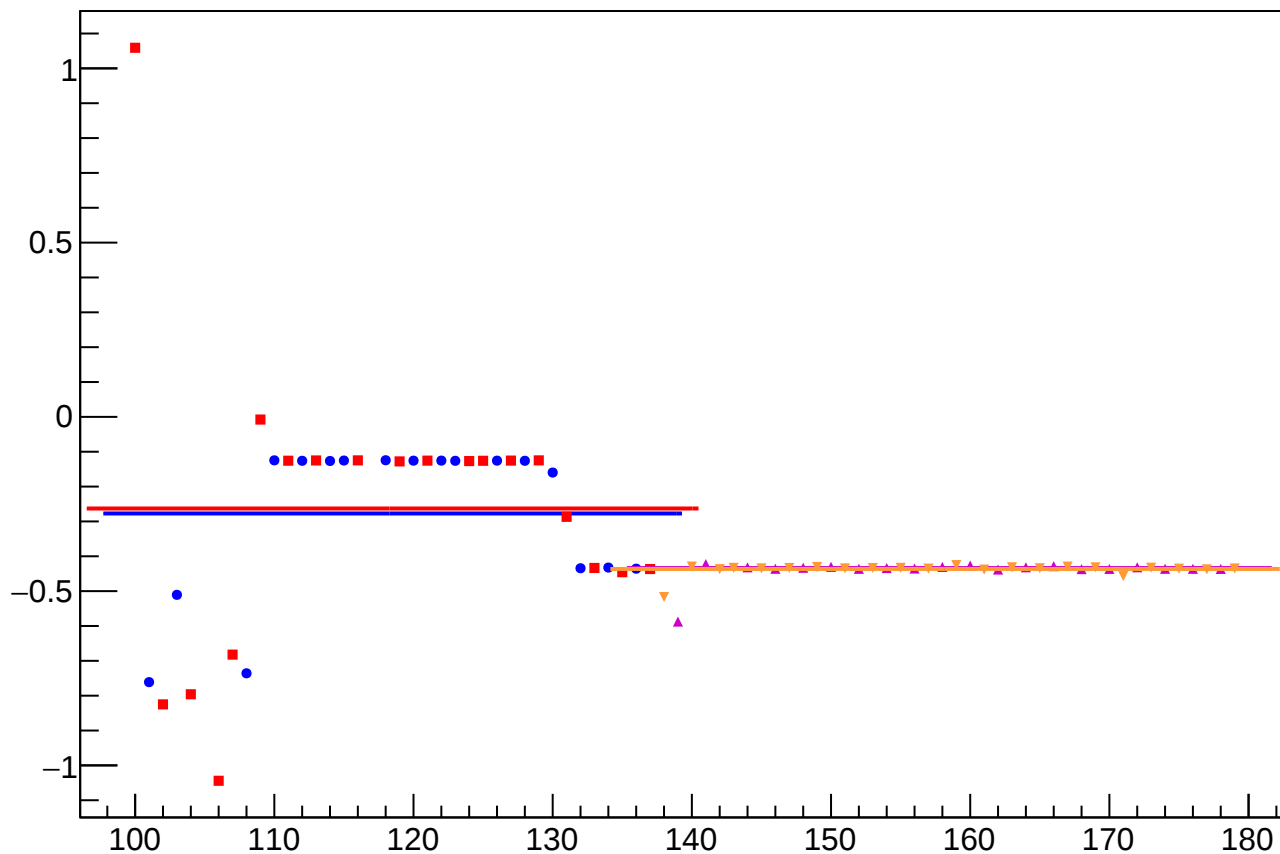
Right: 0.010+/-0.000 χ^2/NDF : 2411867.8/35

In: 0.009+/-0.000 χ^2/NDF :3033328.6/36

Out: 0.009+/-0.000 χ^2/NDF :3030584.2/40

All: 0.009+/-0.000 χ^2/NDF : 6064249.9/77

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 $\chi^2/\text{NDF}: 28766378.8/21$

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 $\chi^2/\text{NDF}: 53003862.4/41$

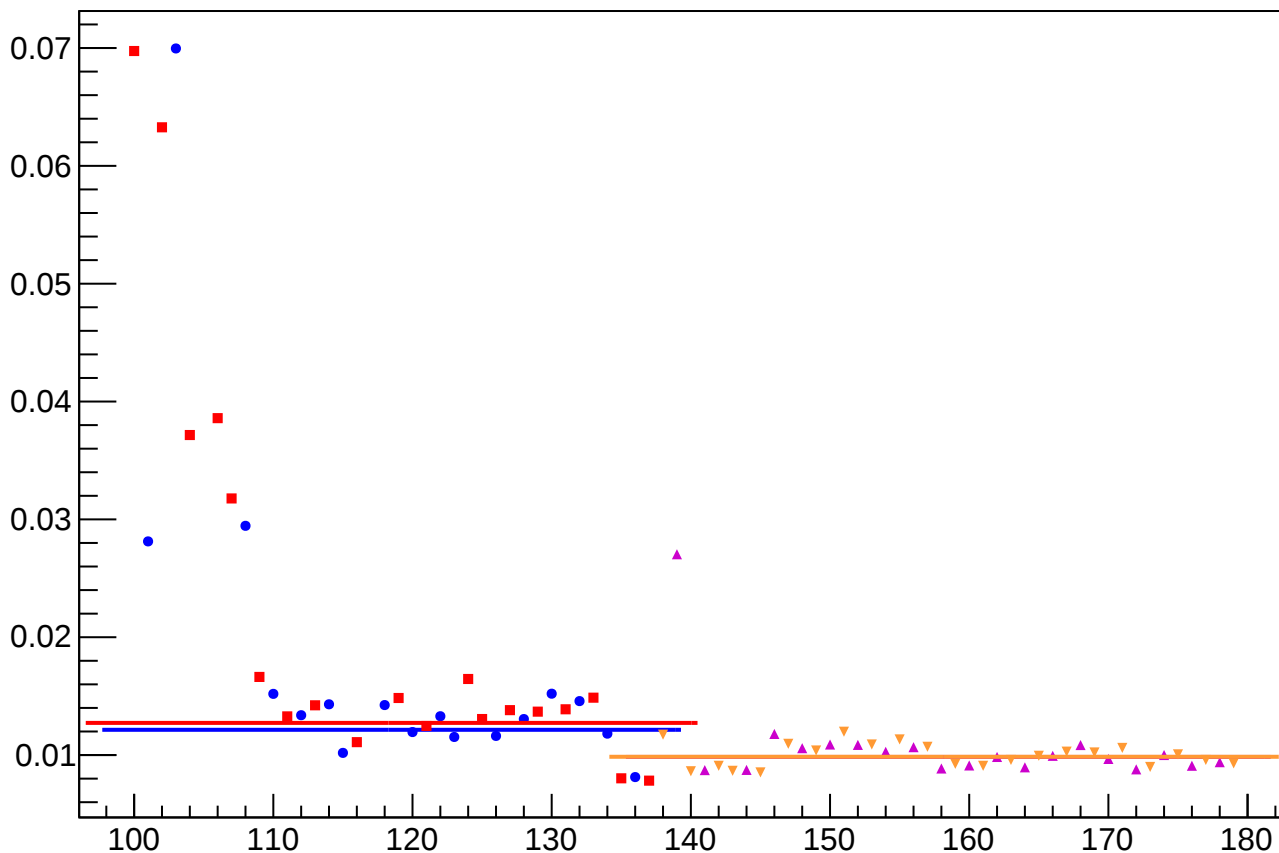
Right: -0.270 ± 0.000 $\chi^2/\text{NDF}: 1952121842.2/35$

In: -0.403 ± 0.000 $\chi^2/\text{NDF}: 1596610387.2/36$

Out: -0.406 ± 0.000 $\chi^2/\text{NDF}: 1782126008.8/40$

All: -0.405 ± 0.000 $\chi^2/\text{NDF}: 3379525245.8/77$

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 :253617.0/21

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 : 990953.3/41

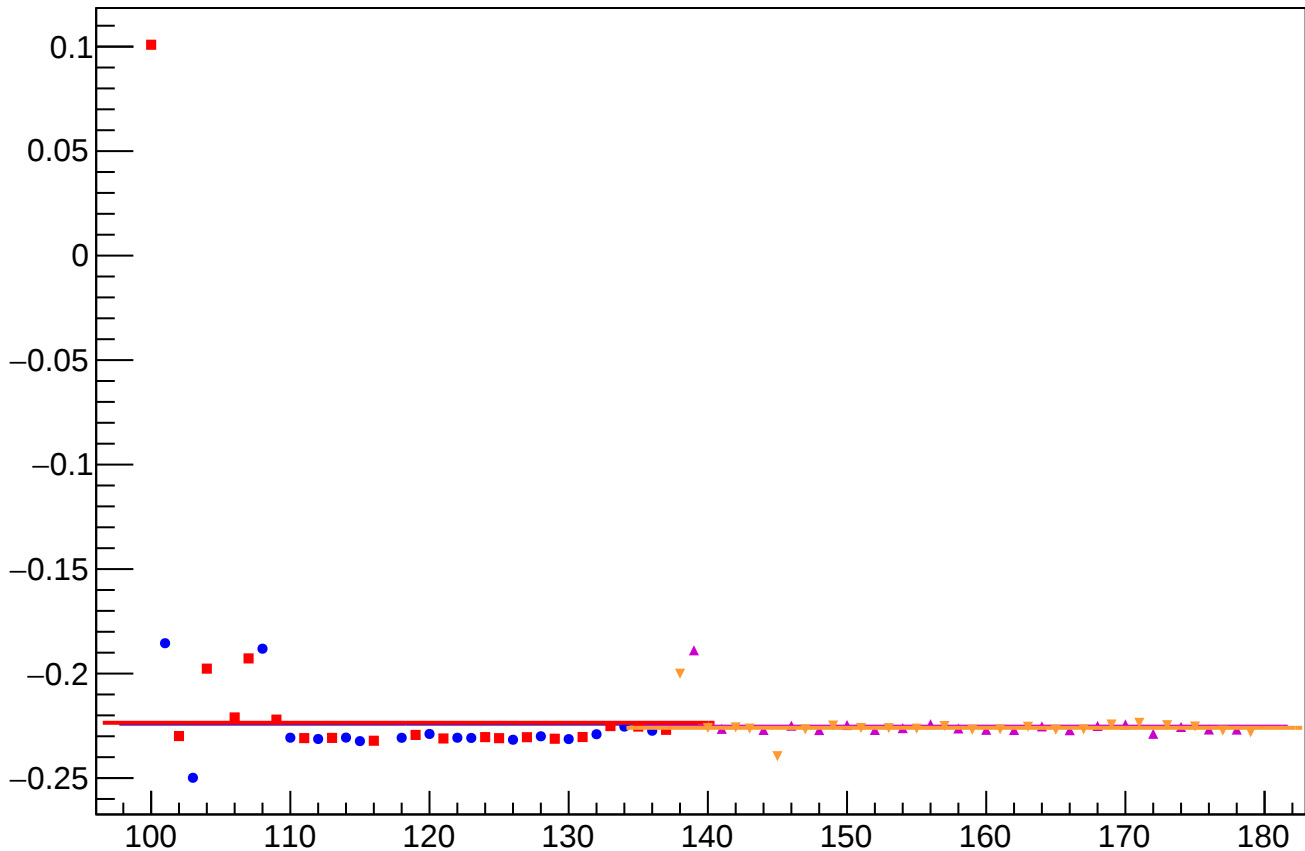
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 3707277.9/35

In: 0.010 $\pm$ 0.000 χ^2/NDF :2738540.2/36

Out: 0.010 $\pm$ 0.000 χ^2/NDF :2632033.1/40

All: 0.010 $\pm$ 0.000 χ^2/NDF : 5371259.5/77

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 : 21091142.0/21

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 : 35975871.0/41

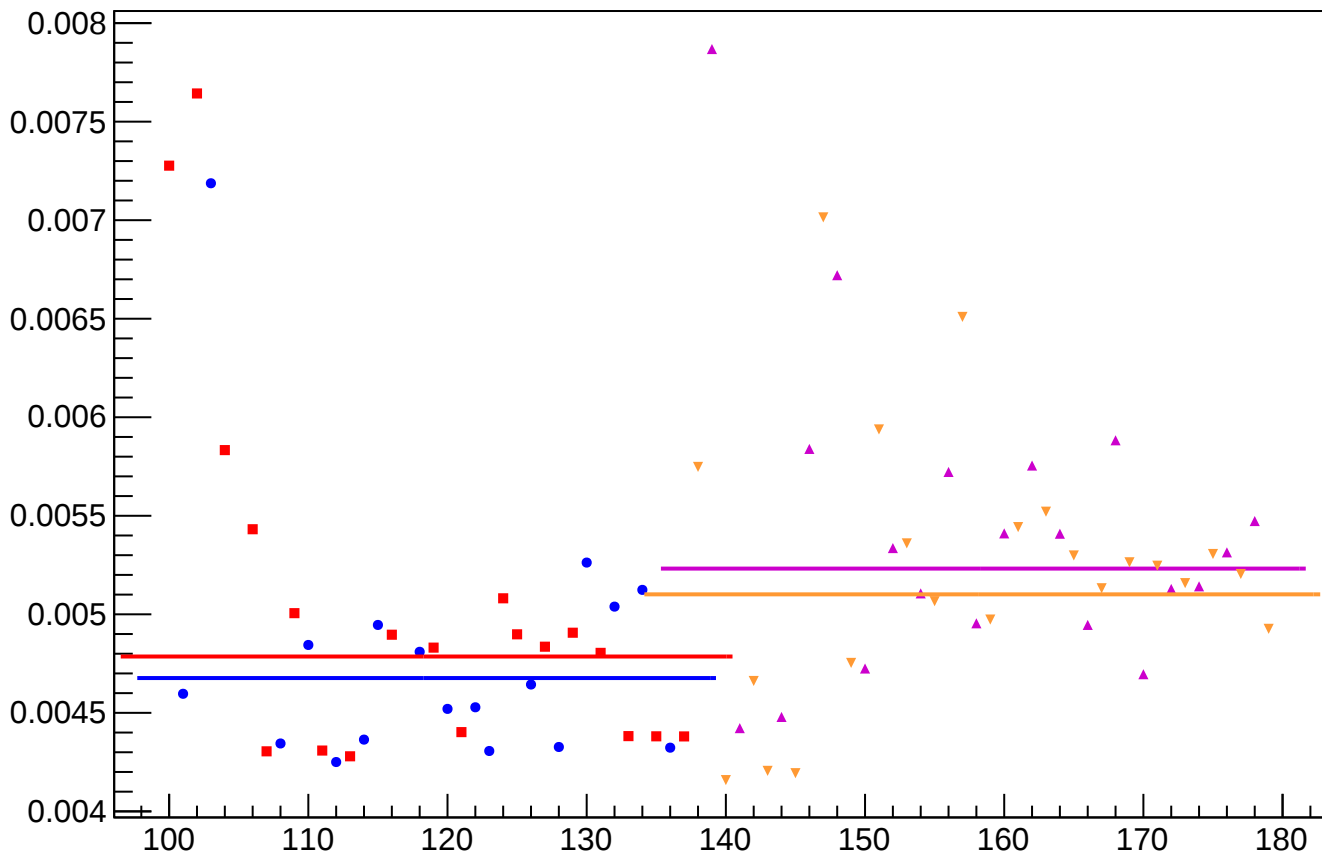
Right: -0.224 ± 0.000 χ^2/NDF : 242852935.9/35

In: -0.225 ± 0.000 χ^2/NDF : 89887420.9/36

Out: -0.225 ± 0.000 χ^2/NDF : 190321129.2/40

All: -0.225 ± 0.000 χ^2/NDF : 280242424.2/77

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 : 456258.9/21

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 : 895810.3/41

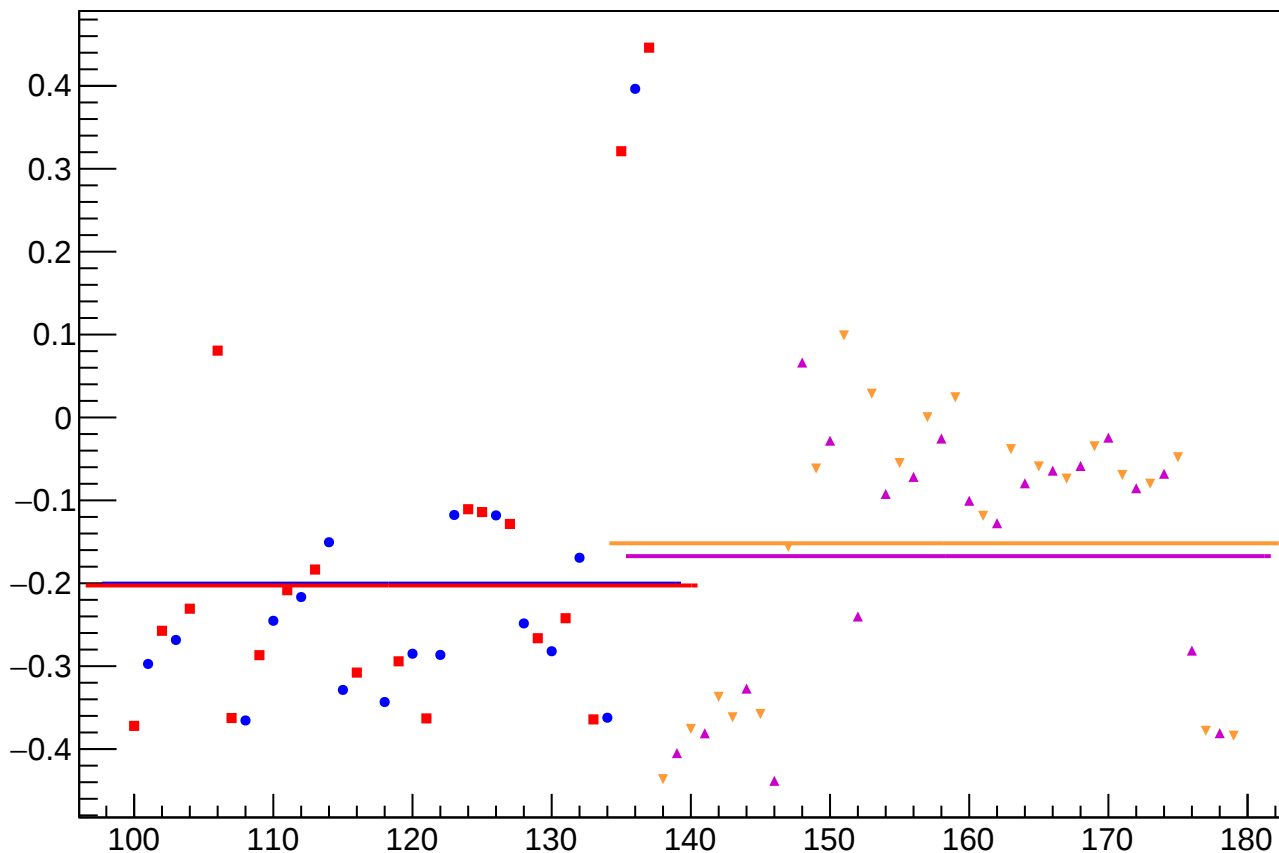
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 723223.6/36

Out: 0.005+/-0.000 χ^2/NDF : 742281.4/40

All: 0.005+/-0.000 χ^2/NDF : 1466892.6/77

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.152 ± 0.000 χ^2/NDF : 14569823179.6/21

Right Out: -0.203 ± 0.000 χ^2/NDF : 5028268807.1/18

Left In: -0.167 ± 0.000 χ^2/NDF : 10637361765.7/19

Left: -0.159 ± 0.000 χ^2/NDF : 25268648503.1/41

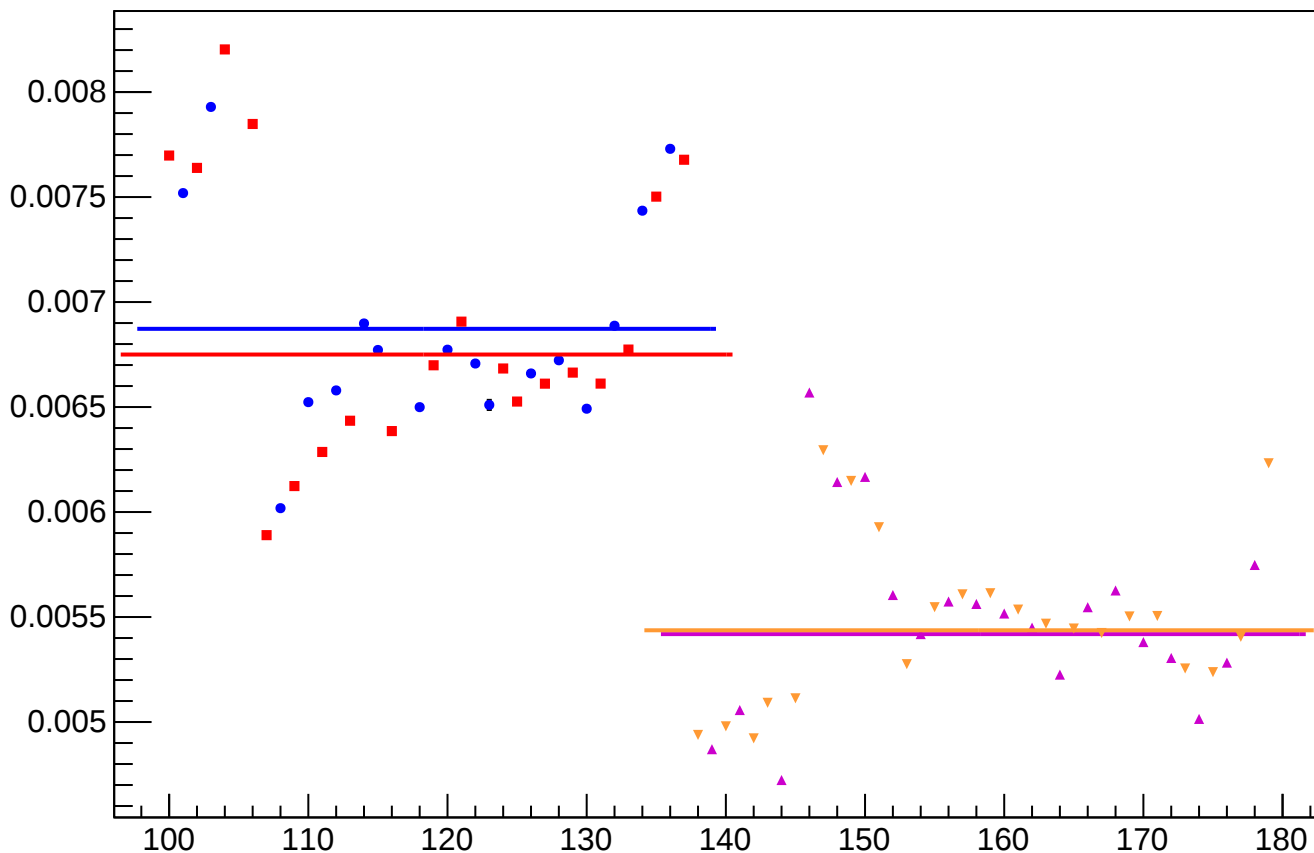
Right: -0.202 ± 0.000 χ^2/NDF : 11002181720.9/35

In: -0.175 ± 0.000 χ^2/NDF : 16730240512.1/36

Out: -0.163 ± 0.000 χ^2/NDF : 19902067751.0/40

All: -0.169 ± 0.000 χ^2/NDF : 36675752935.5/79

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 :135576.5/21

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 : 300648.2/41

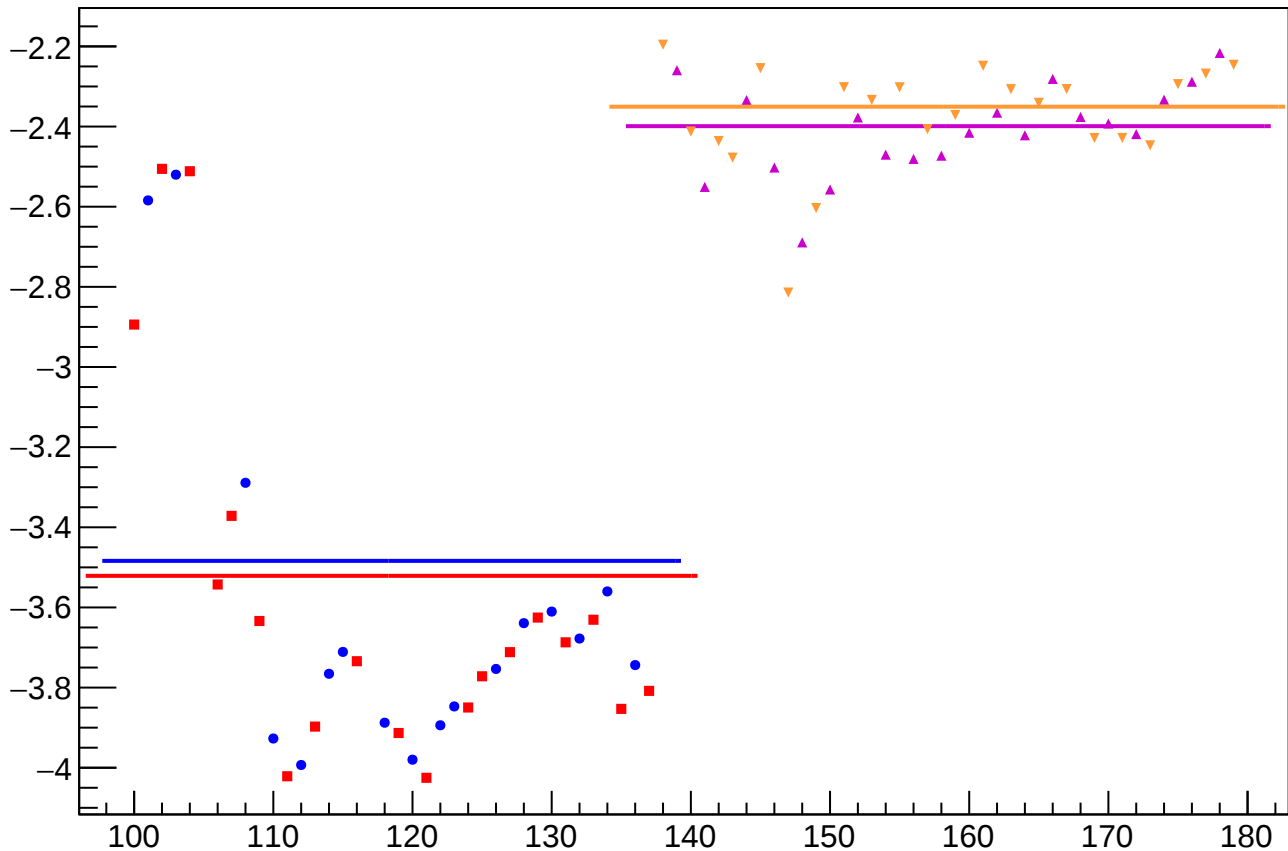
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :702236.6/36

Out: 0.006+/-0.000 χ^2/NDF :646024.2/40

All: 0.006+/-0.000 χ^2/NDF : 1348322.8/77

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.350+/-0.000 χ^2/NDF : 2111791335.9/21

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: -2.374+/-0.000 χ^2/NDF : 4064824927.6/41

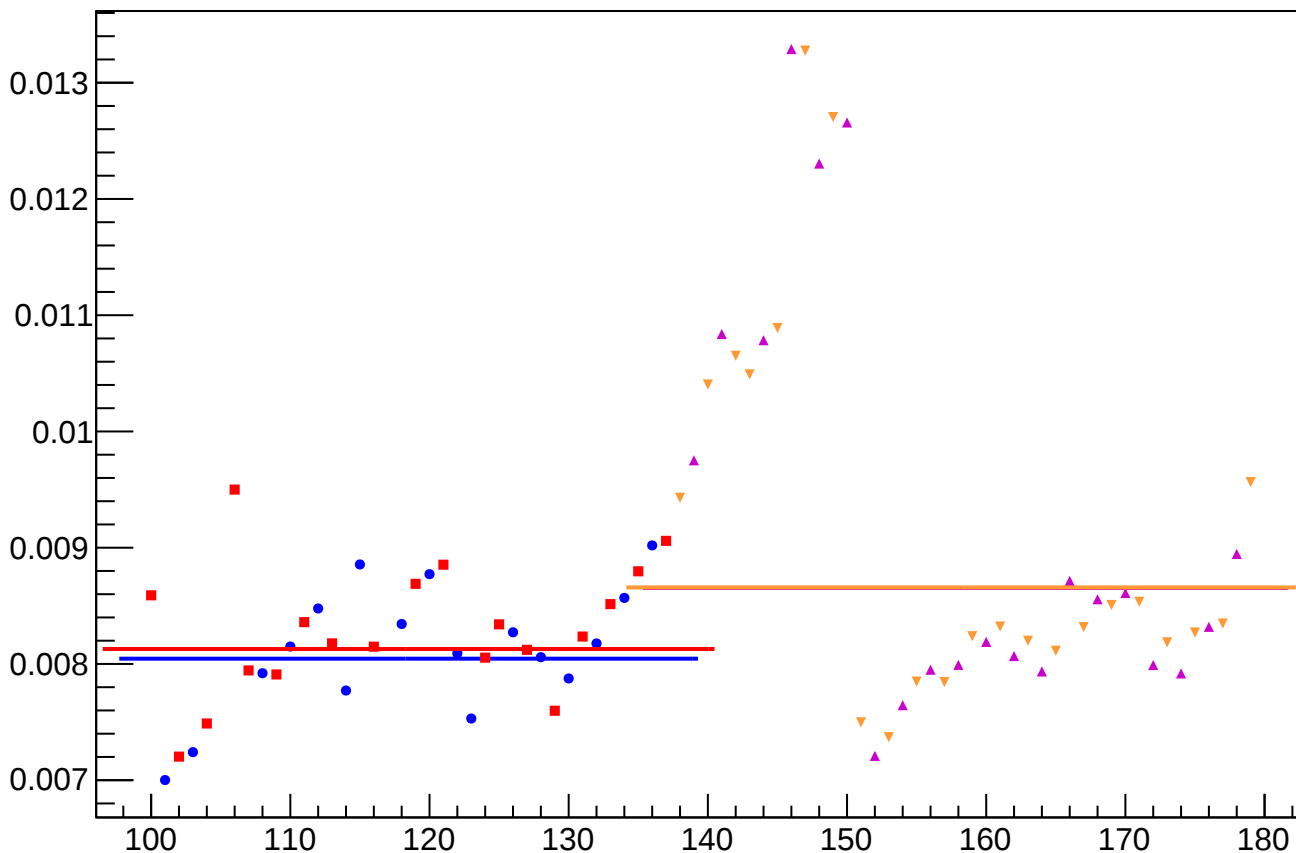
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.772+/-0.000 χ^2/NDF : 106494980670.3/36

Out: -2.739+/-0.000 χ^2/NDF : 122413482471.6/40

All: -2.755+/-0.000 χ^2/NDF : 229071391954.1

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 619352.1/21

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 : 1349614.5/41

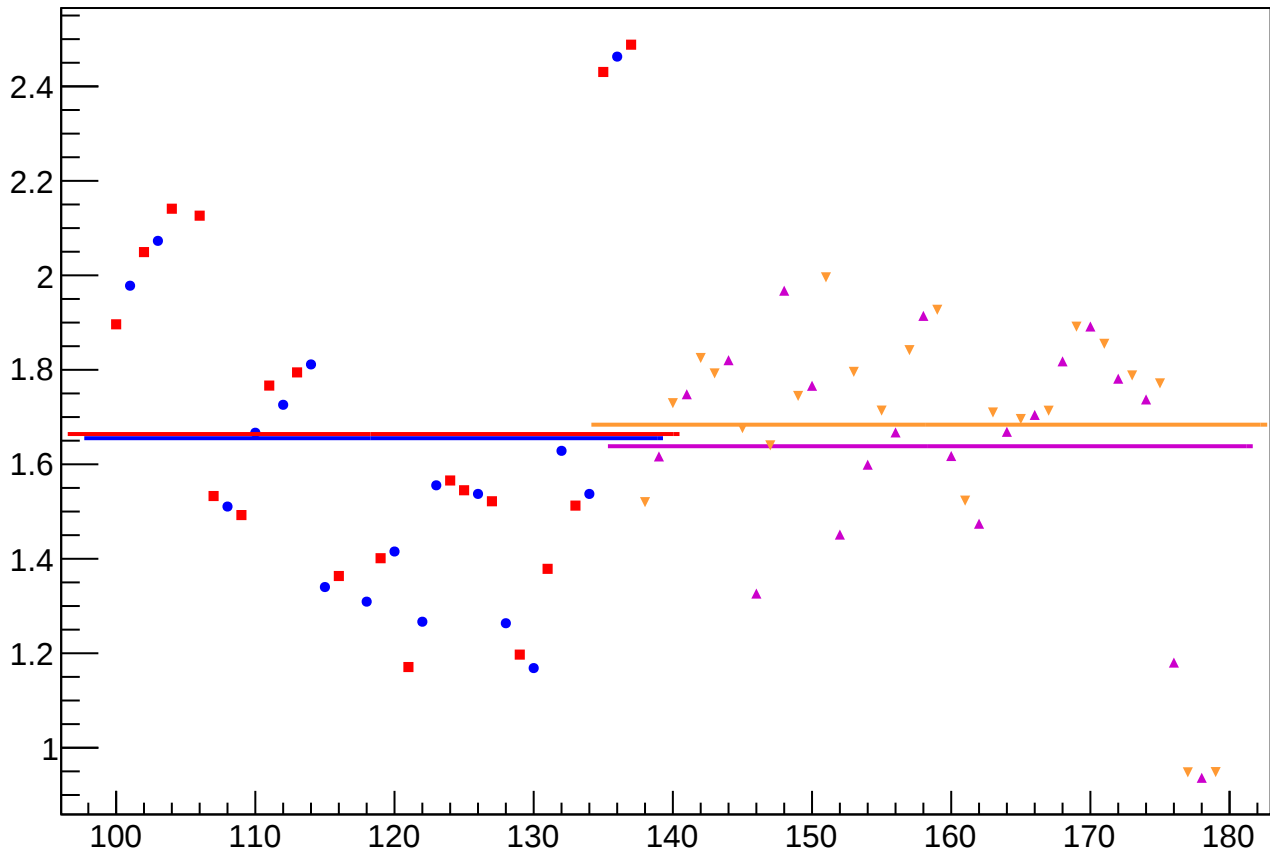
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 851003.4/36

Out: 0.008+/-0.000 χ^2/NDF : 715216.2/40

All: 0.008+/-0.000 χ^2/NDF : 1566657.1/77

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655 $\pm$ 0.000 χ^2 /NDF: 6476474909.3/16

Left Out: 1.684 $\pm$ 0.000 χ^2 /NDF: 9930454350.5/21

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: 1.662 $\pm$ 0.000 χ^2 /NDF: 18373677620.5/41

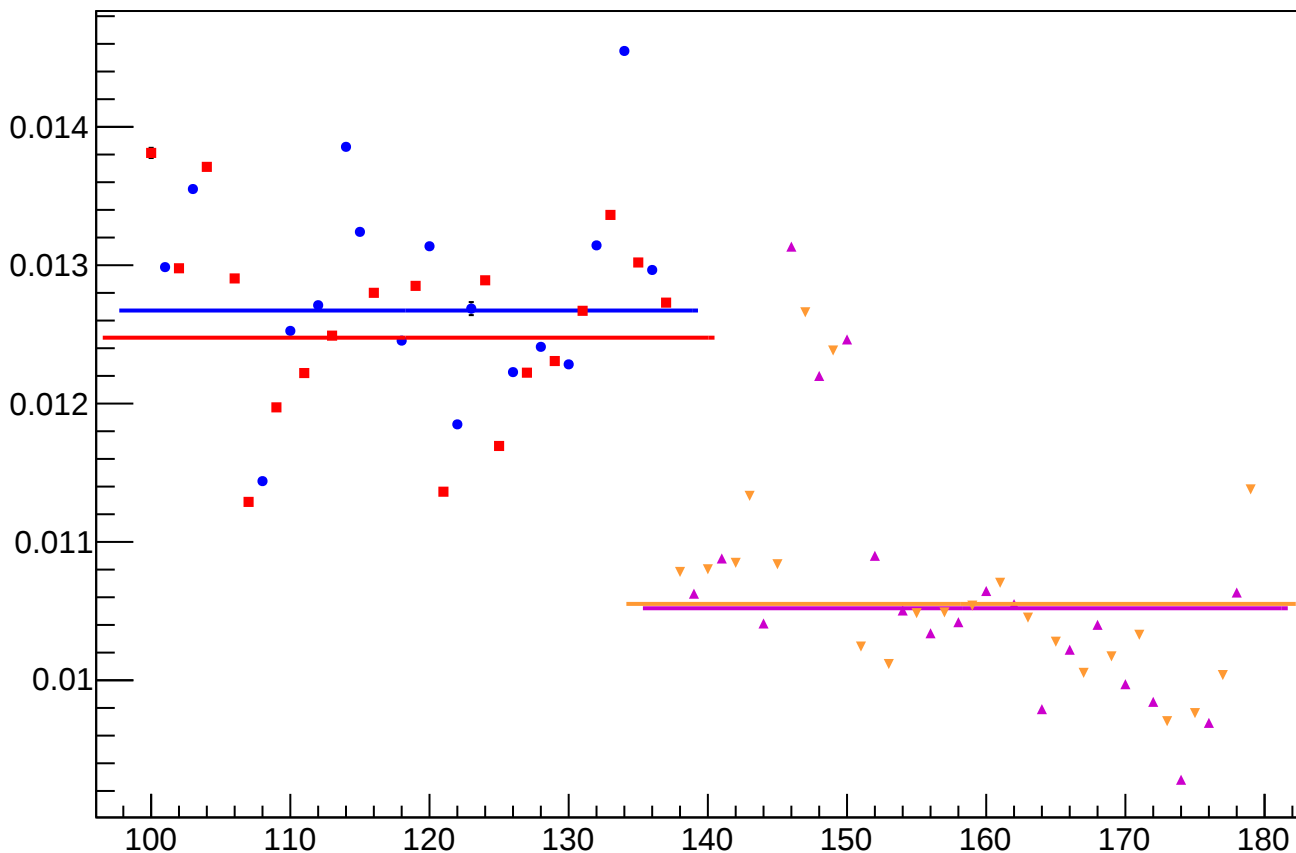
Right: 1.660 $\pm$ 0.000 χ^2 /NDF: 12422392259.9/35

In: 1.642 $\pm$ 0.000 χ^2 /NDF: 14785258138.1/36

Out: 1.679 $\pm$ 0.000 χ^2 /NDF: 15887979709.7/40

All: 1.661 $\pm$ 0.000 χ^2 /NDF: 30796344838.6/71

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :128027.6/21

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 : 310016.2/41

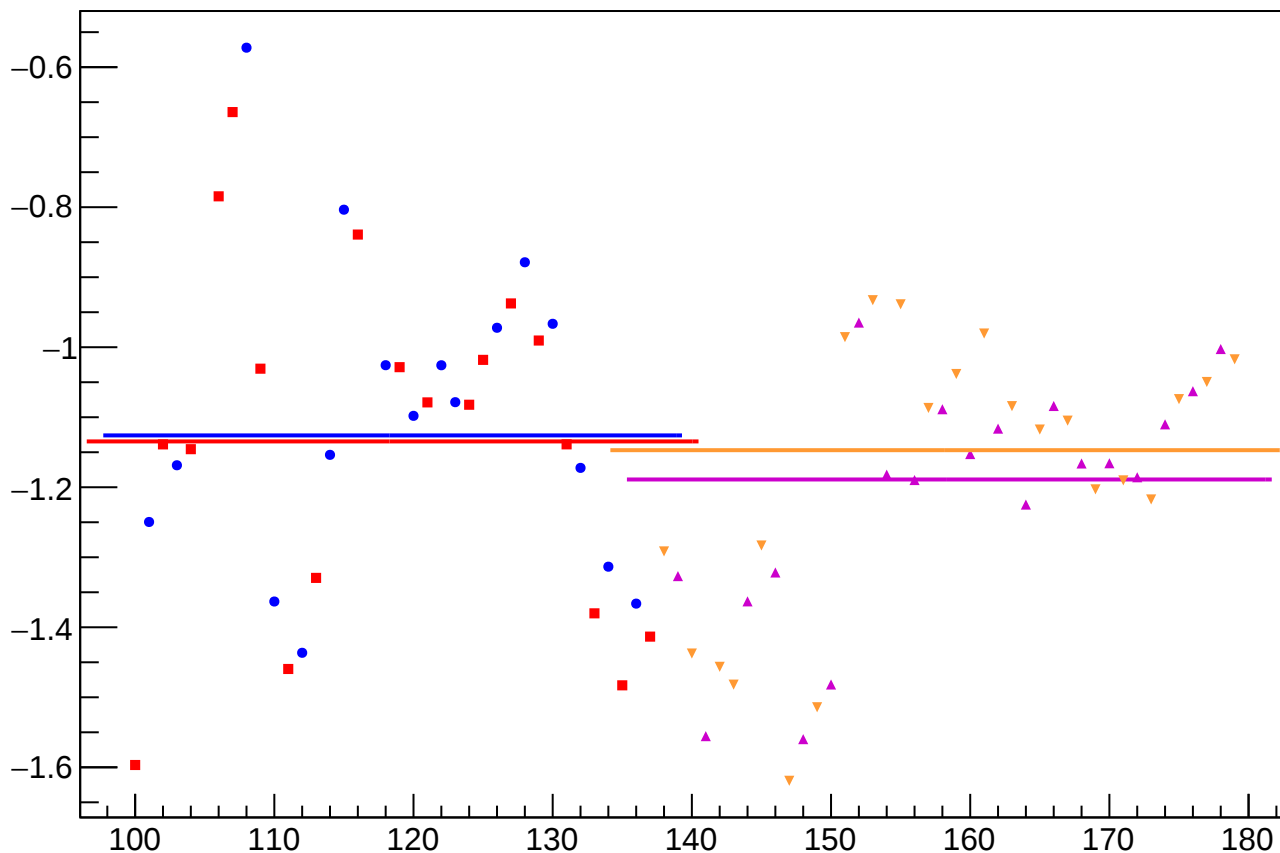
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :503153.2/36

Out: 0.011+/-0.000 χ^2/NDF :417357.6/40

All: 0.011+/-0.000 χ^2/NDF : 920576.3/77

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000 χ^2/NDF : 3574776639.2/16

Left Out: -1.147+/-0.000 χ^2/NDF : 7676544636.8/21

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: -1.167+/-0.000 χ^2/NDF : 13370625216.3/41

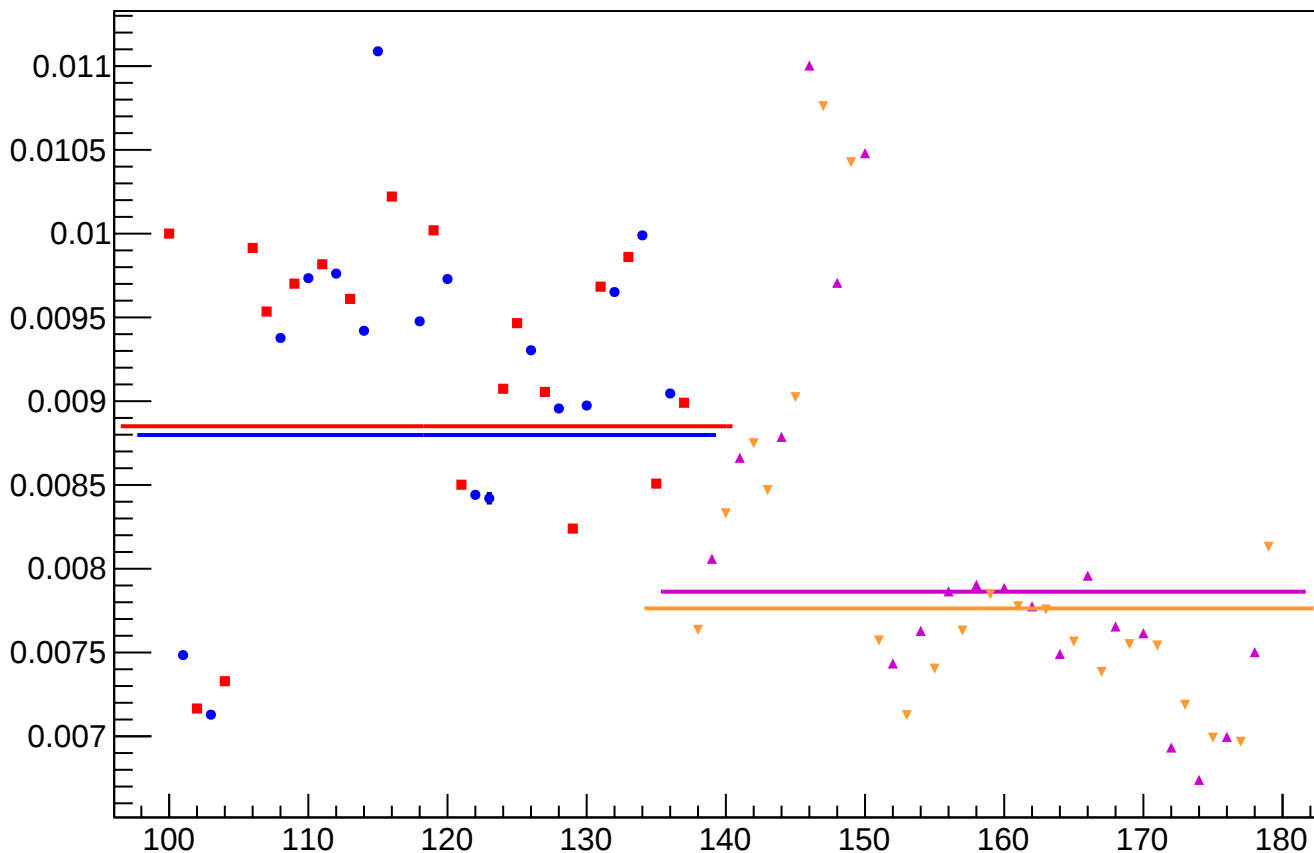
Right: -1.130+/-0.000 χ^2/NDF : 7255318739.1/35

In: -1.172+/-0.000 χ^2/NDF : 9297103156.1/36

Out: -1.144+/-0.000 χ^2/NDF : 11363942883.8/40

All: -1.158+/-0.000 χ^2/NDF : 20793426721.1/171

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 : 312427.3/21

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 : 691766.5/41

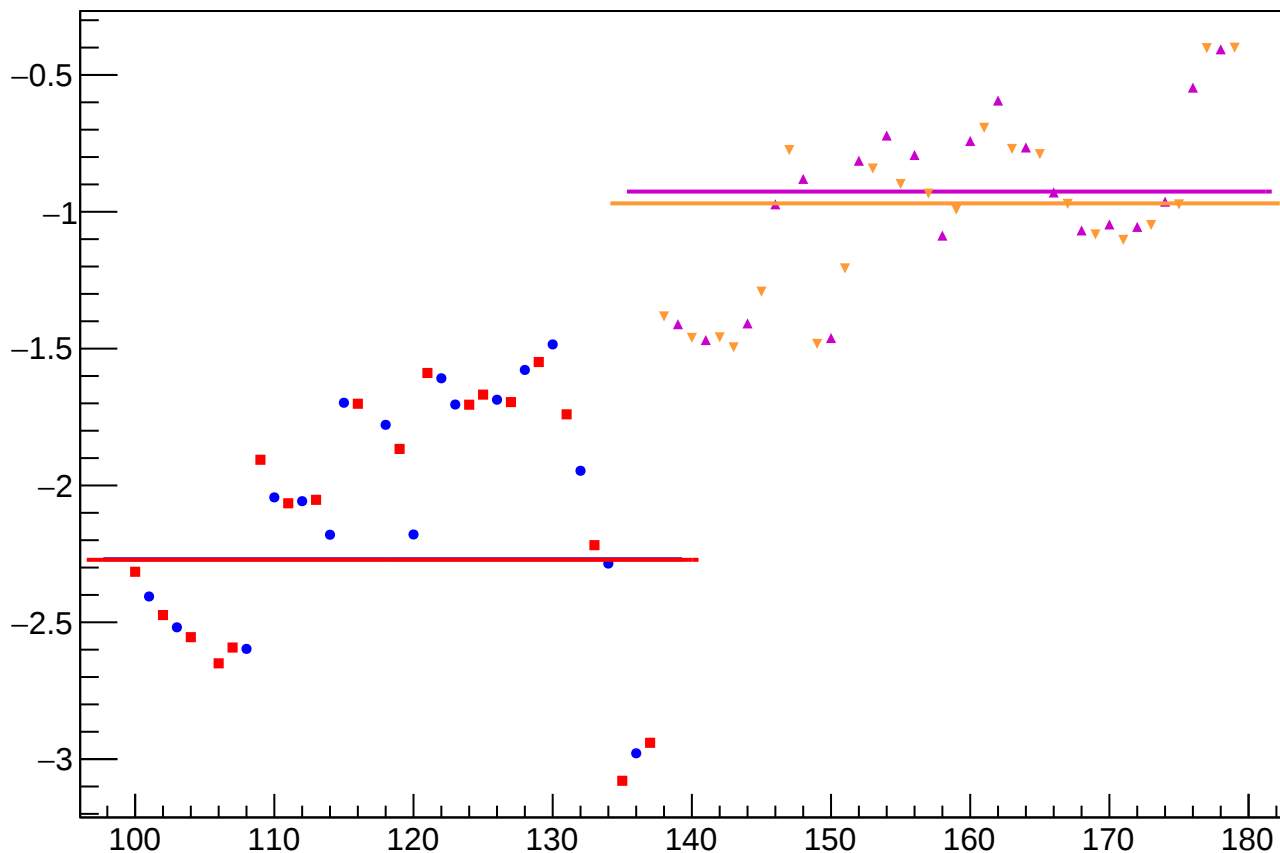
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF : 634876.5/36

Out: 0.008+/-0.000 χ^2/NDF : 636305.1/40

All: 0.008+/-0.000 χ^2/NDF : 1272964.4/77

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -0.969+/-0.000 χ^2/NDF : 35469016574.8/21

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: -0.948+/-0.000 χ^2/NDF : 66216599433.8/41

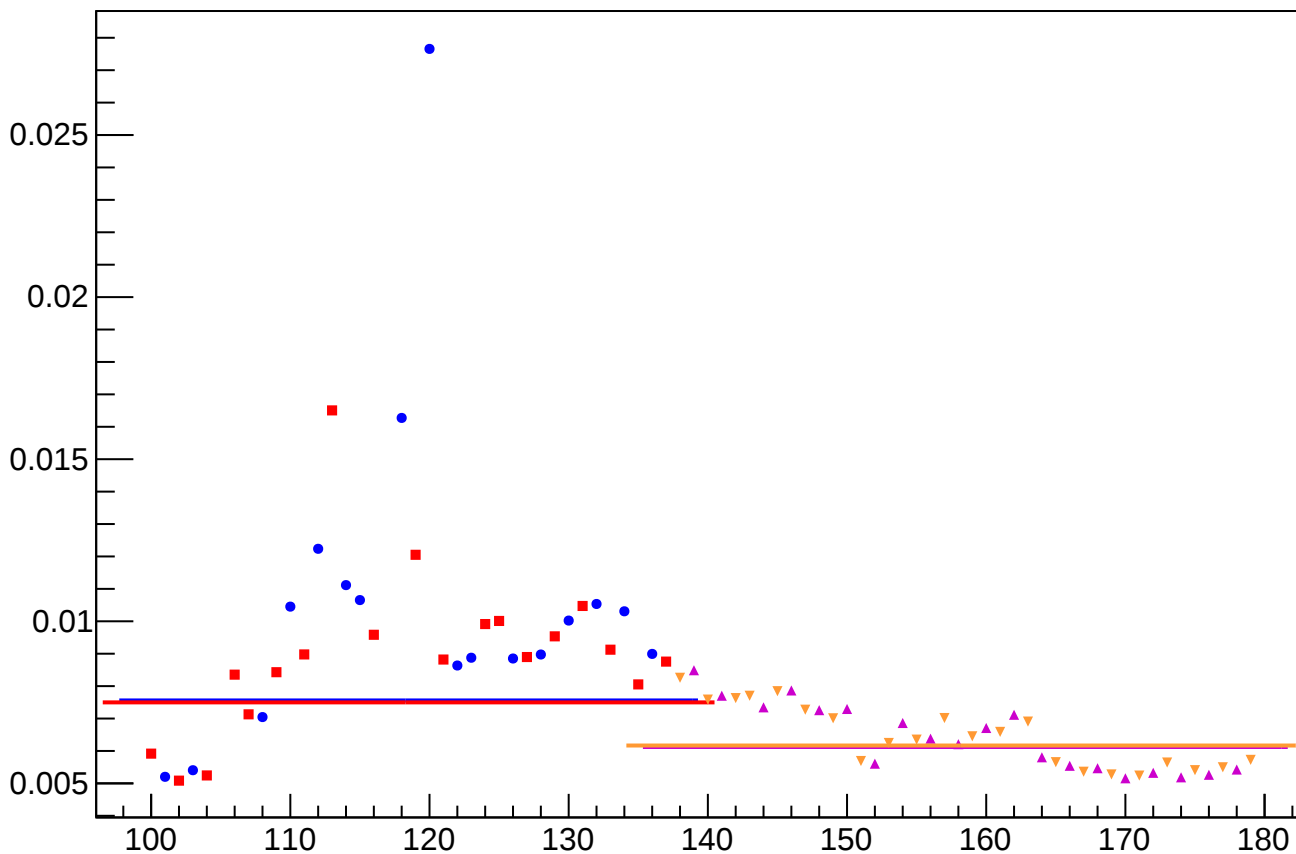
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.180+/-0.000 χ^2/NDF : 176734334563.6/36

Out: -1.230+/-0.000 χ^2/NDF : 189497806333.5/40

All: -1.206+/-0.000 χ^2/NDF : 366840083040.7

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 : 596667.0/21

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 : 1263636.2/41

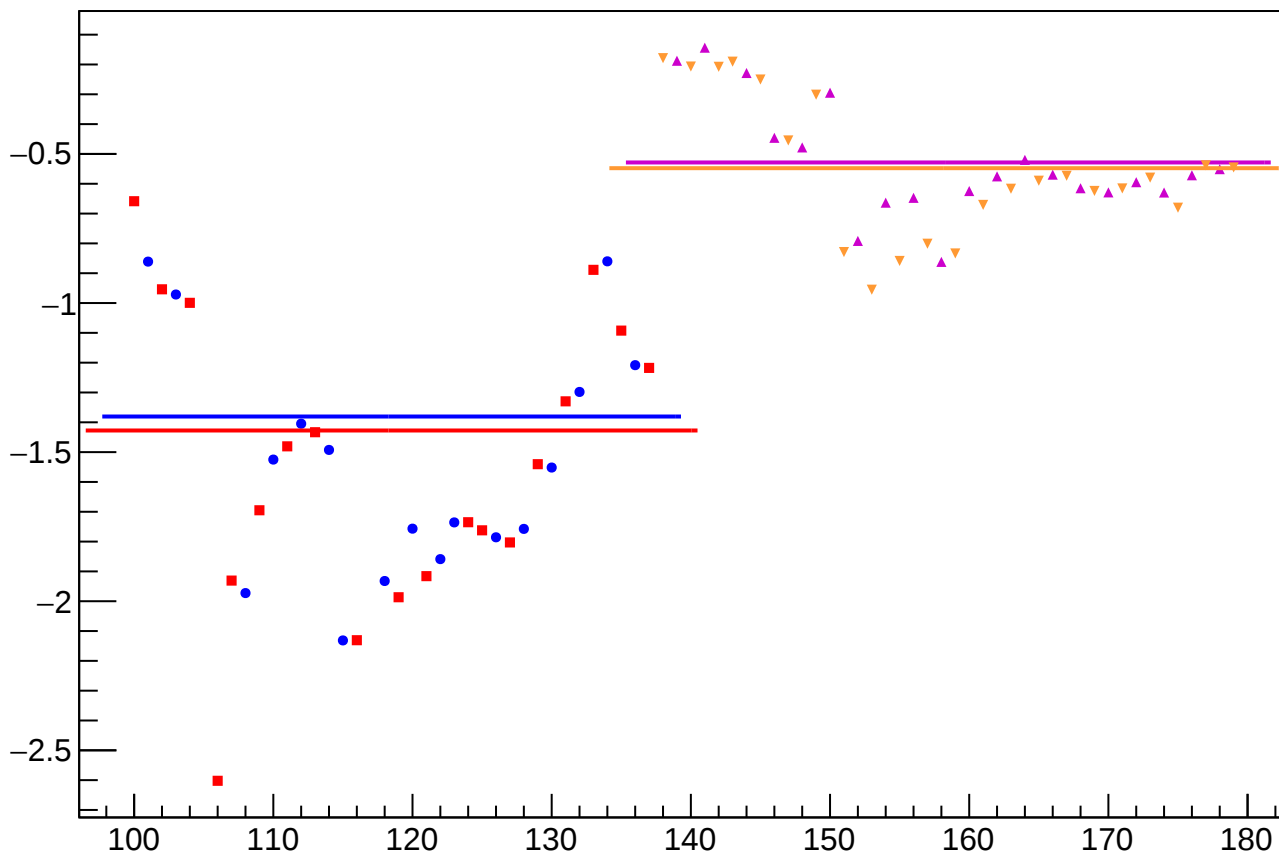
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.006+/-0.000 χ^2/NDF : 2181607.1/36

Out: 0.006+/-0.000 χ^2/NDF : 1812497.1/40

All: 0.006+/-0.000 χ^2/NDF : 3994905.5/77

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 20001018652.5/16

Left: -0.539+/-0.000

χ^2/NDF : 76838641674.6/41

Left Out: -0.548+/-0.000

χ^2/NDF : 46180631367.9/21

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: -0.676+/-0.000

χ^2/NDF : 176274170909.7/40

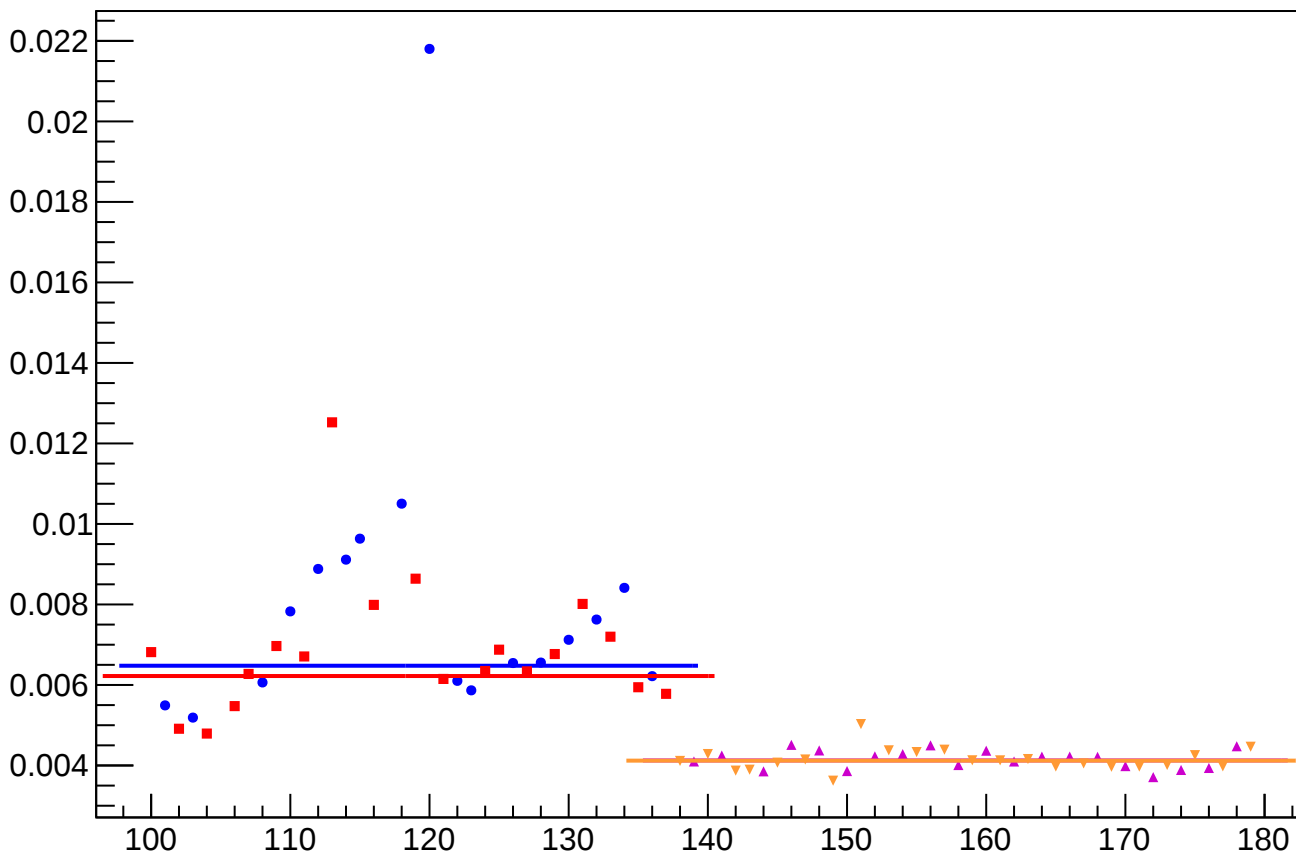
Left In: -0.529+/-0.000

χ^2/NDF : 30499290452.7/19

All: -0.660+/-0.000

χ^2/NDF : 308853969439.8

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004+/-0.000 χ^2/NDF :107894.9/21

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 : 195208.1/41

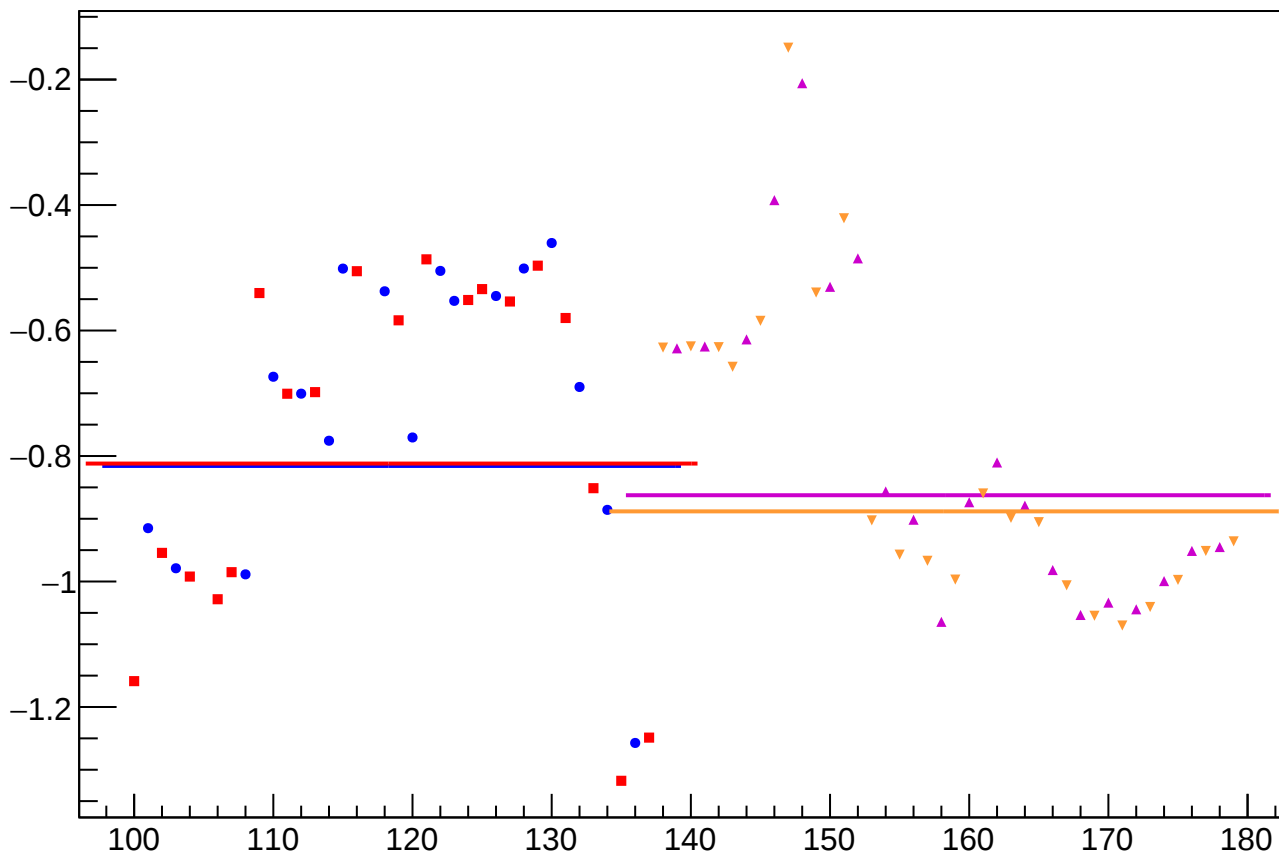
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.004+/-0.000 χ^2/NDF :1903899.5/36

Out: 0.004+/-0.000 χ^2/NDF :1678627.8/40

All: 0.004+/-0.000 χ^2/NDF : 3582784.6/77

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 ± 0.000 $\chi^2/\text{NDF}: 14172884795.2/16$

Left Out: -0.888 ± 0.000 $\chi^2/\text{NDF}: 40216701297.9/21$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 16815852448.9/18$

Left In: -0.862 ± 0.000 $\chi^2/\text{NDF}: 43624603464.1/19$

Left: -0.876 ± 0.000 $\chi^2/\text{NDF}: 84168600105.1/41$

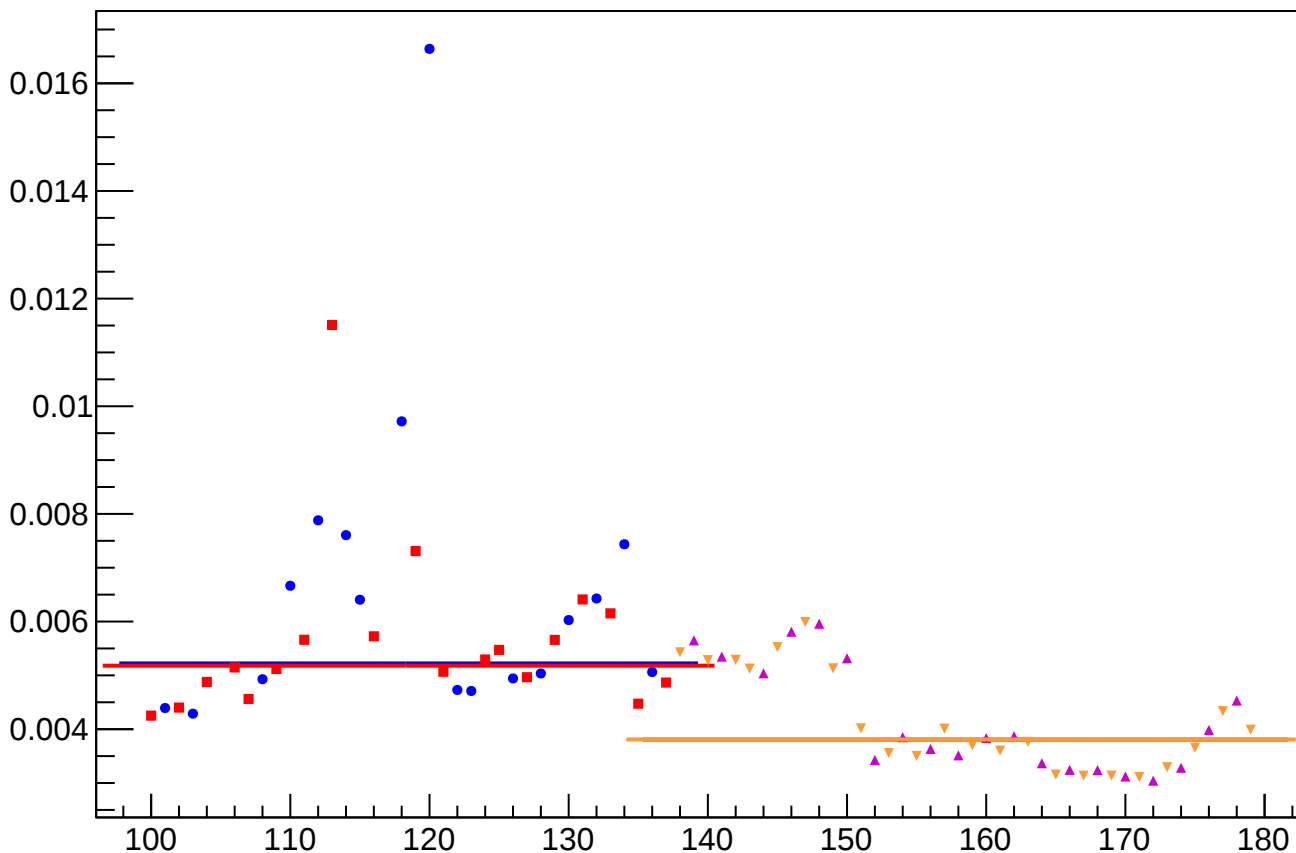
Right: -0.814 ± 0.000 $\chi^2/\text{NDF}: 30990213454.0/35$

In: -0.855 ± 0.000 $\chi^2/\text{NDF}: 58152378603.9/36$

Out: -0.875 ± 0.000 $\chi^2/\text{NDF}: 58088537683.5/40$

All: -0.865 ± 0.000 $\chi^2/\text{NDF}: 116481994071.9$

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 :1151882.1/21

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 : 2379795.0/41

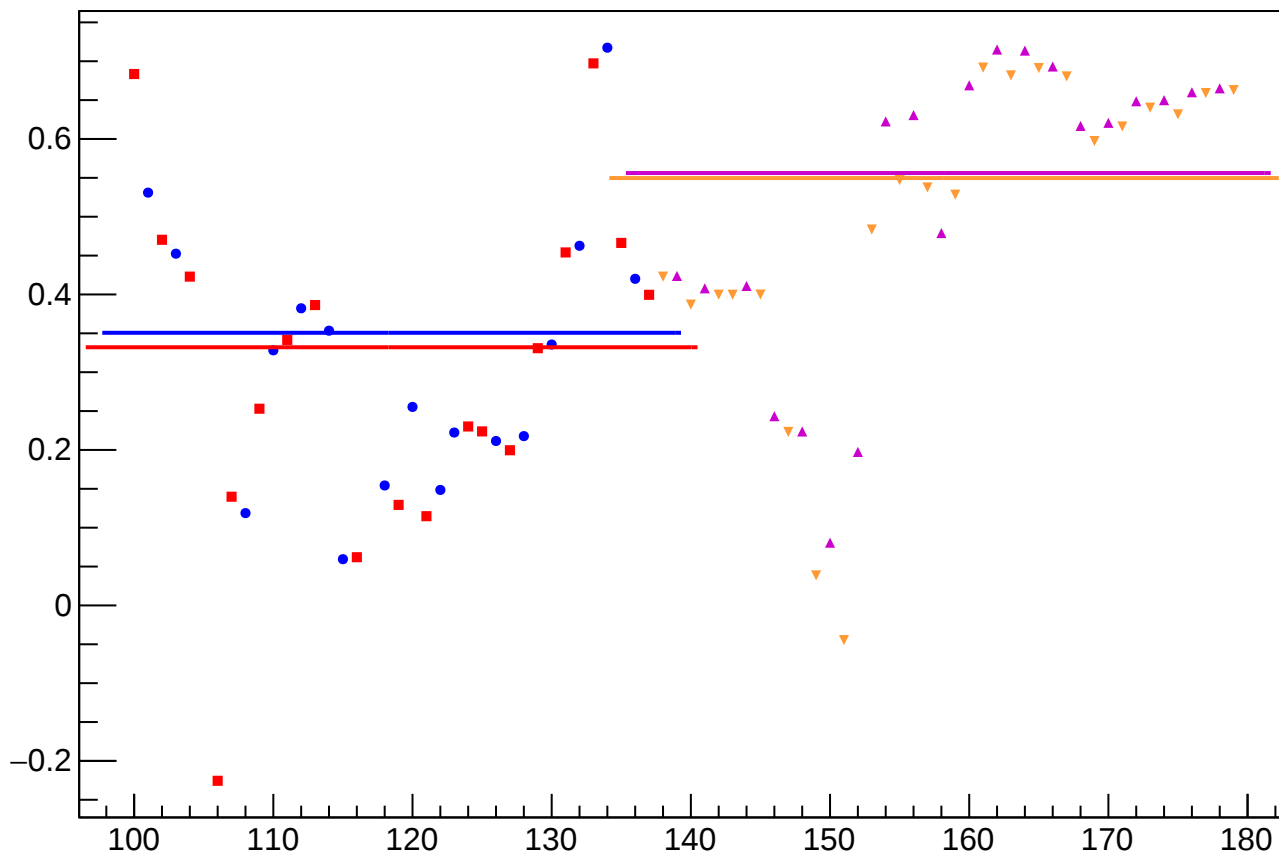
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2543492.6/36

Out: 0.004+/-0.000 χ^2/NDF :2199103.0/40

All: 0.004+/-0.000 χ^2/NDF : 4742642.6/77

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7410859446.3/16

Left: 0.553+/-0.000

χ^2/NDF : 82692309410.3/41

Left Out: 0.550+/-0.000

χ^2/NDF : 42766977328.4/21

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: 0.504+/-0.000

χ^2/NDF : 69261837294.8/40

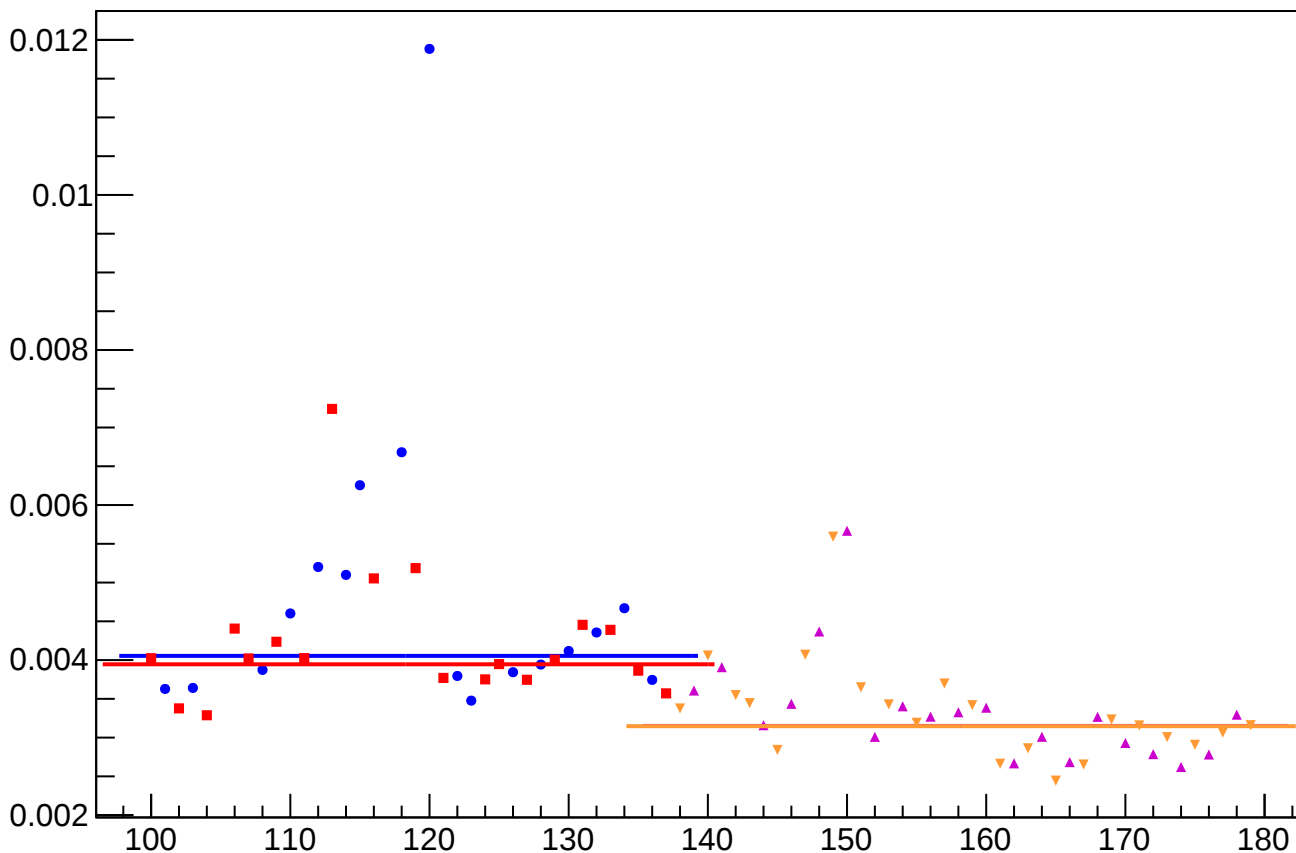
Left In: 0.556+/-0.000

χ^2/NDF : 39895645215.7/19

All: 0.509+/-0.000

χ^2/NDF : 128377078262.6

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 : 726474.5/21

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 : 1438169.0/41

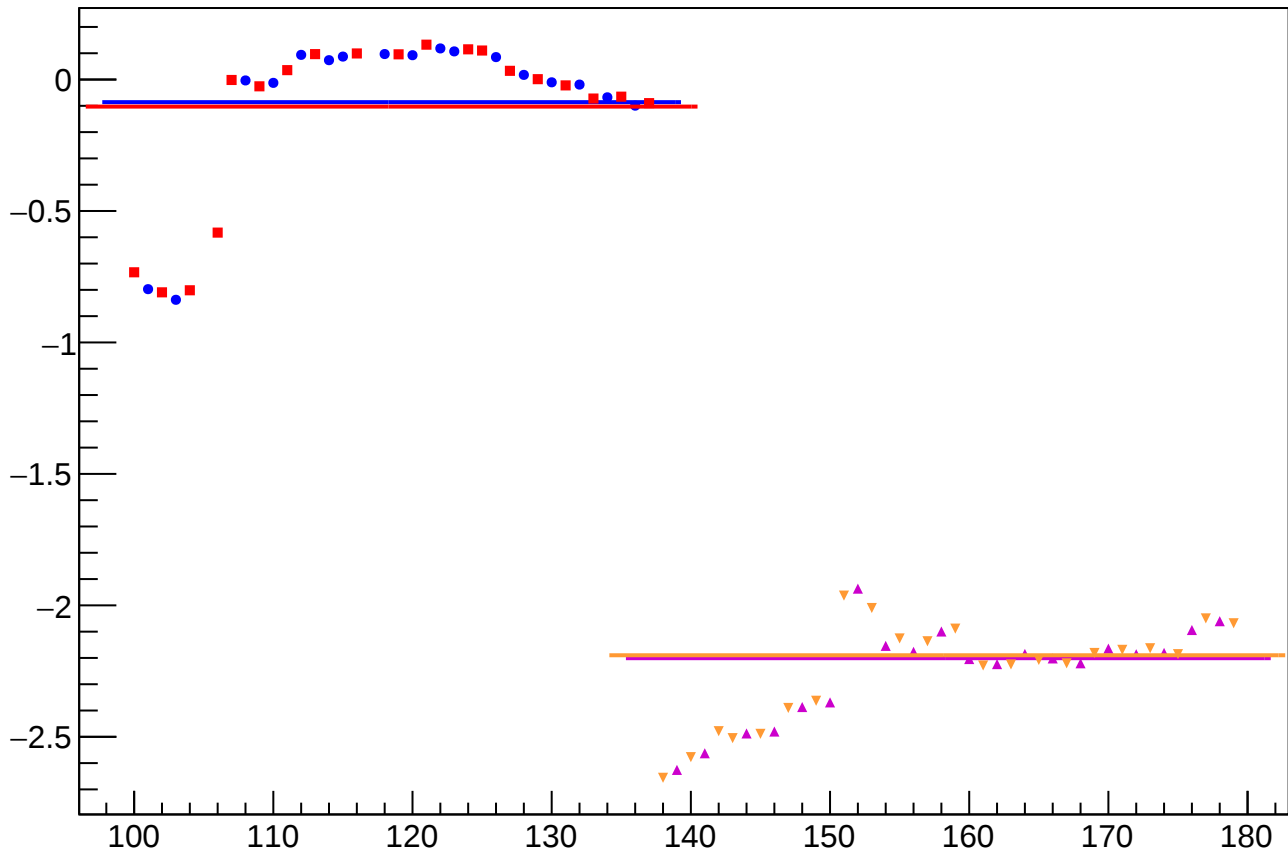
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1619375.6/36

Out: 0.003+/-0.000 χ^2/NDF : 1382761.1/40

All: 0.003+/-0.000 χ^2/NDF : 3002620.1/77

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4989387592.7/16

Left Out: -2.190+/-0.000 χ^2/NDF : 3839982650.7/21

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: -2.195+/-0.000 χ^2/NDF : 6941416470.9/41

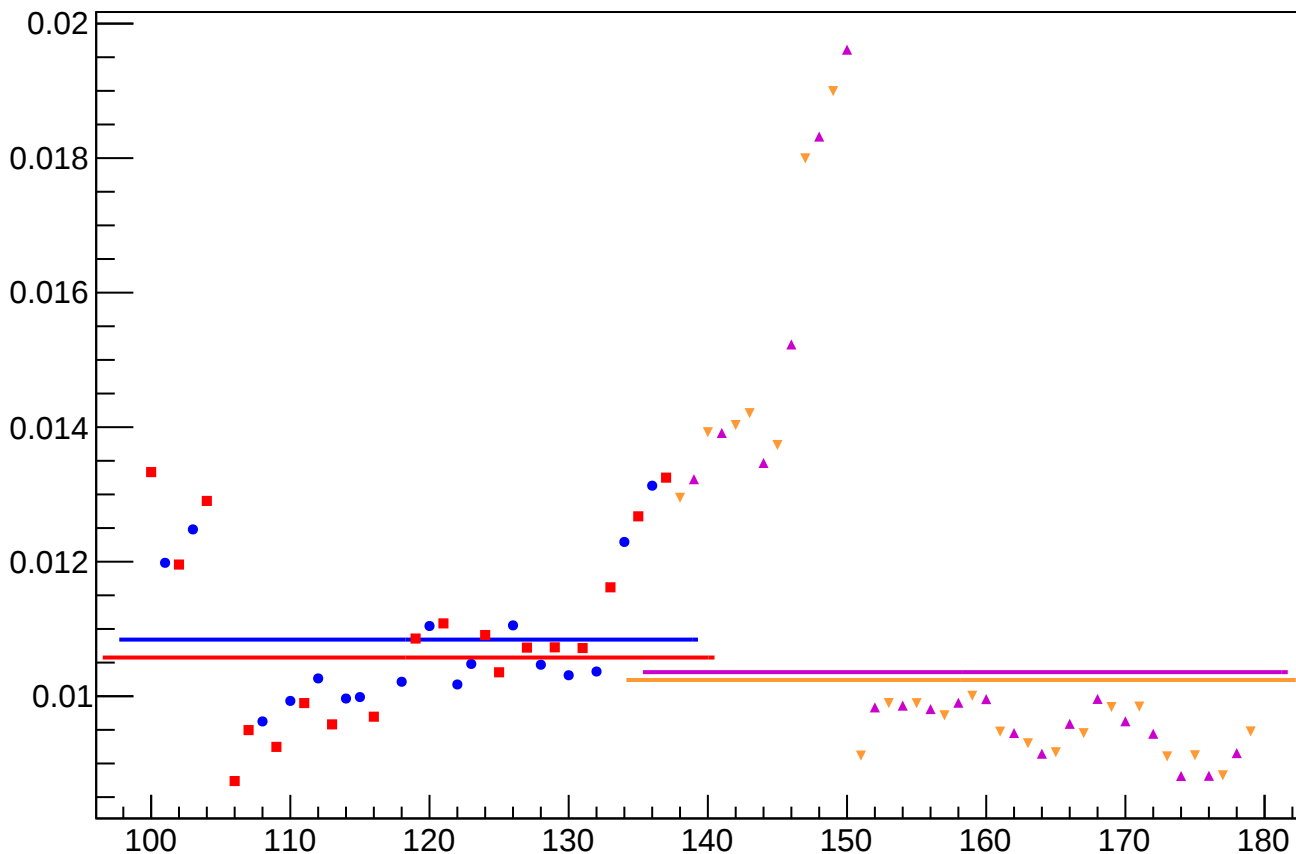
Right: -0.095+/-0.000 χ^2/NDF : 10550892801.3/35

In: -1.583+/-0.000 χ^2/NDF : 186886520668.5/36

Out: -1.578+/-0.000 χ^2/NDF : 202381806894.2/40

All: -1.580+/-0.000 χ^2/NDF : 389271486224.1

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.010+/-0.000 χ^2/NDF :1254578.7/21

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.010+/-0.000 χ^2/NDF :1320208.1/19

Left: 0.010+/-0.000 χ^2/NDF : 2576735.1/41

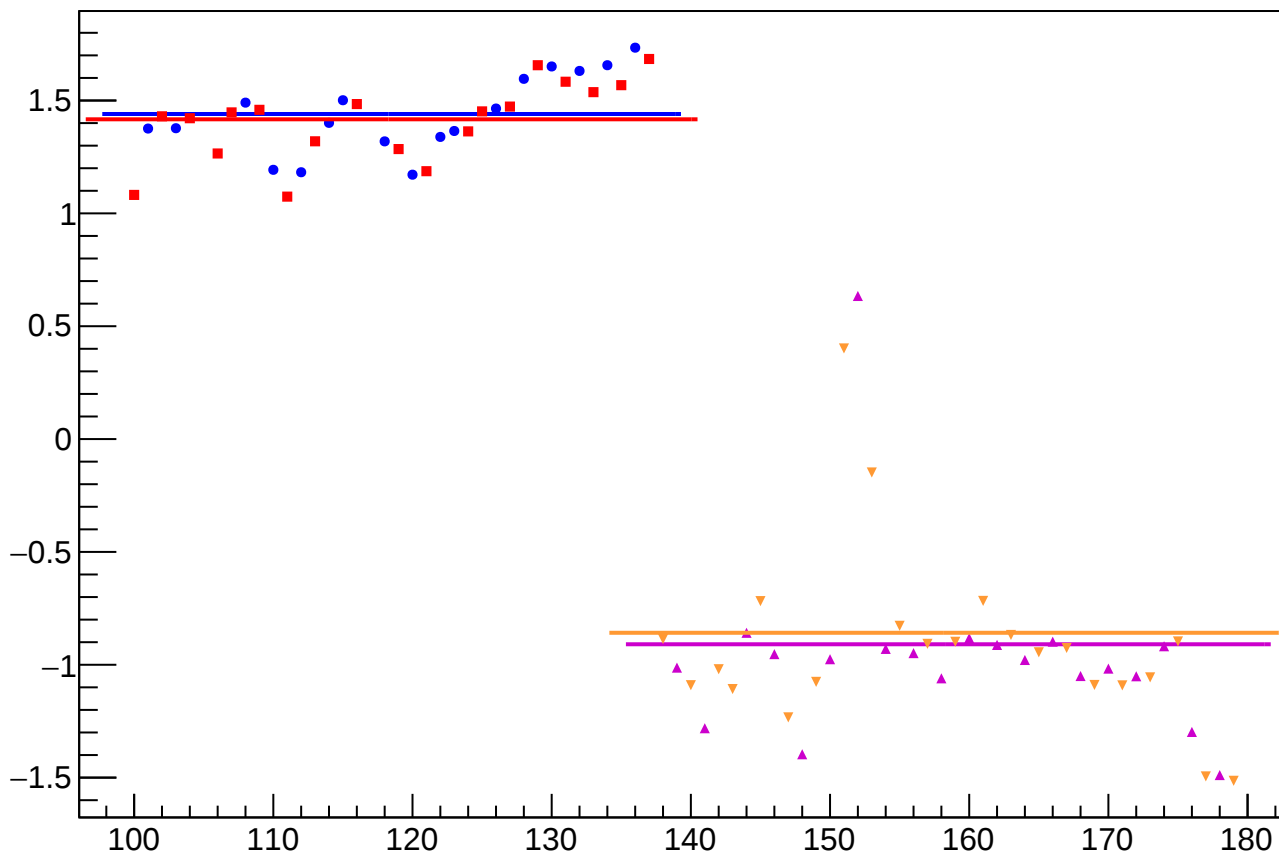
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.010+/-0.000 χ^2/NDF :1463186.5/36

Out: 0.010+/-0.000 χ^2/NDF :1443413.8/40

All: 0.010+/-0.000 χ^2/NDF : 2911792.5/77

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3449252780.8/16

Left Out: -0.858 $\pm$ 0.000 χ^2 /NDF: 45510510356.6/21

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: -0.883 $\pm$ 0.000 χ^2 /NDF: 93211113891.9/41

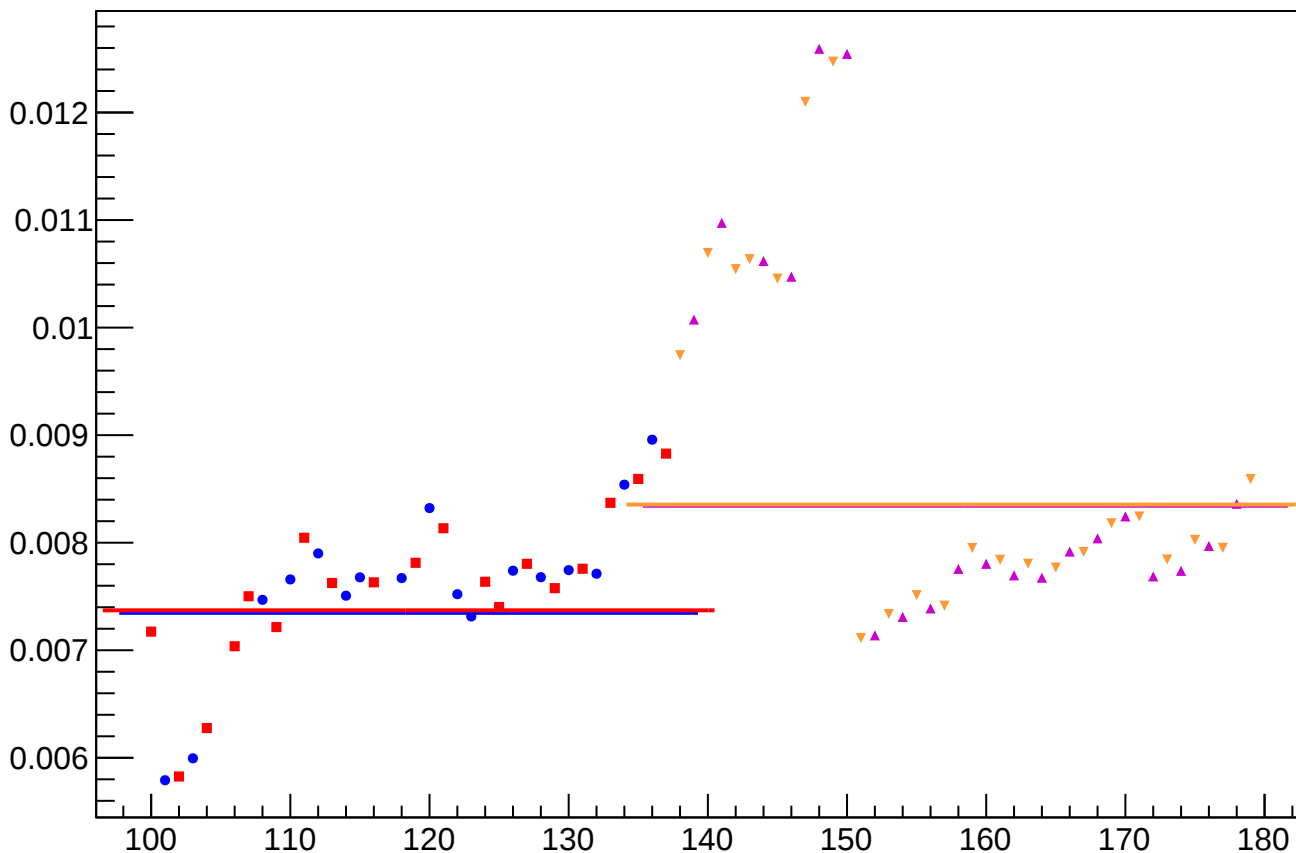
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6158088082.8/35

In: -0.058 $\pm$ 0.000 χ^2 /NDF: 480380276516.1/36

Out: -0.042 $\pm$ 0.000 χ^2 /NDF: 476665505785.3/40

All: -0.049 $\pm$ 0.000 χ^2 /NDF: 957090215810.1

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 : 757300.5/21

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 : 1587293.0/41

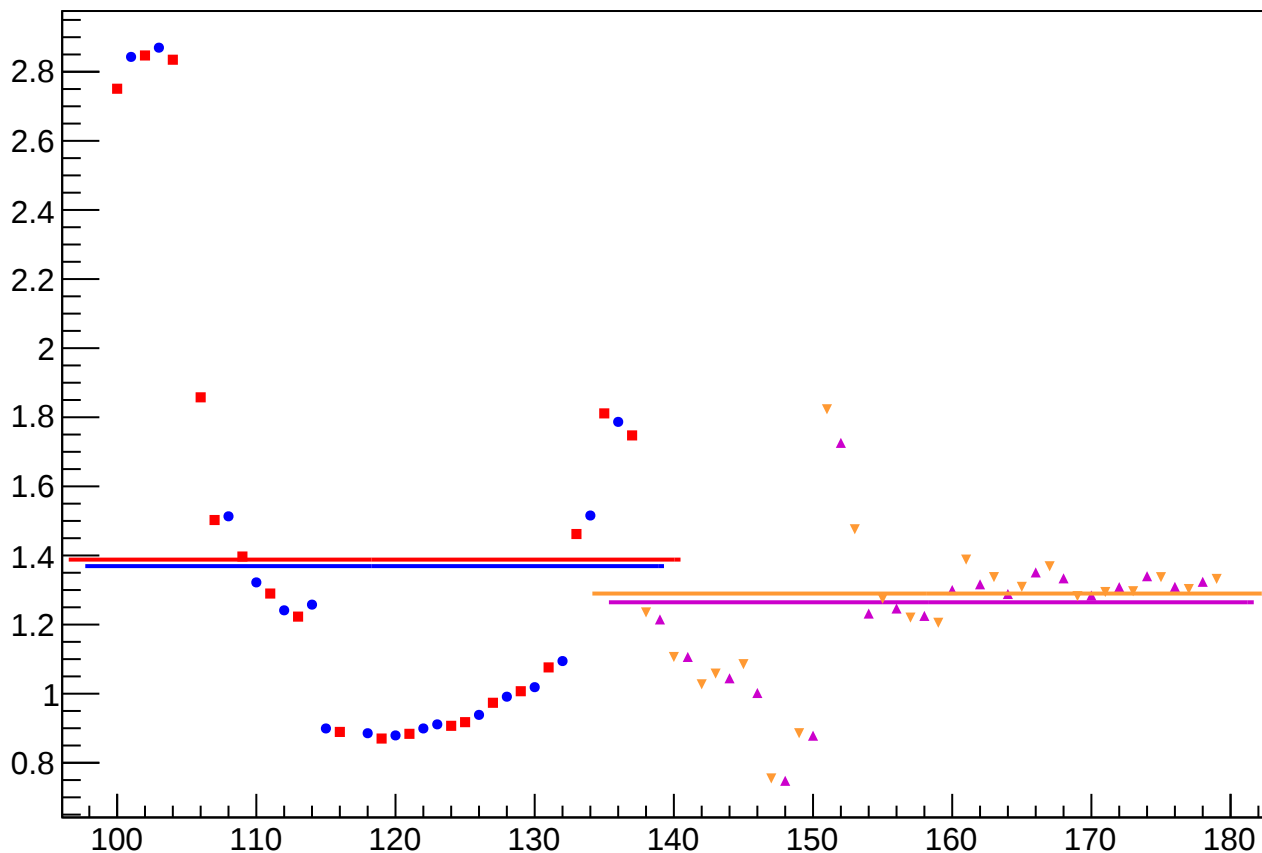
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1212503.1/36

Out: 0.008+/-0.000 χ^2/NDF : 1090117.3/40

All: 0.008+/-0.000 χ^2/NDF : 2302743.8/77

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.290+/-0.000 χ^2/NDF : 9177233660.2/21

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: 1.278+/-0.000 χ^2/NDF : 16694926620.3/41

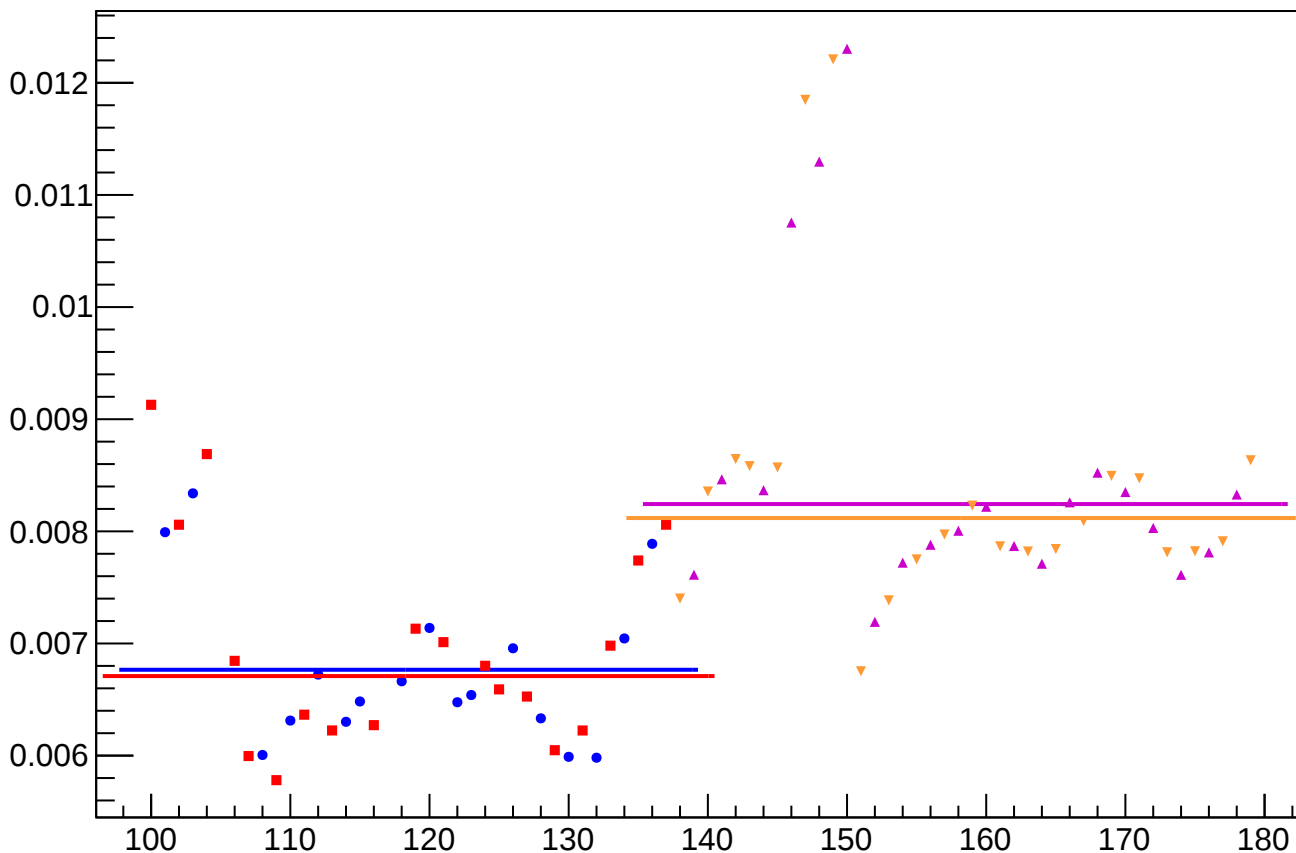
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.306+/-0.000 χ^2/NDF : 62603093031.7/36

Out: 1.328+/-0.000 χ^2/NDF : 59990593877.7/40

All: 1.318+/-0.000 χ^2/NDF : 122686583656.2

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008 $\pm$ 0.000 χ^2/NDF : 428261.7/21

Right Out: 0.007 $\pm$ 0.000 χ^2/NDF : 187826.7/18

Left In: 0.008 $\pm$ 0.000 χ^2/NDF : 447023.4/19

Left: 0.008 $\pm$ 0.000 χ^2/NDF : 878858.5/41

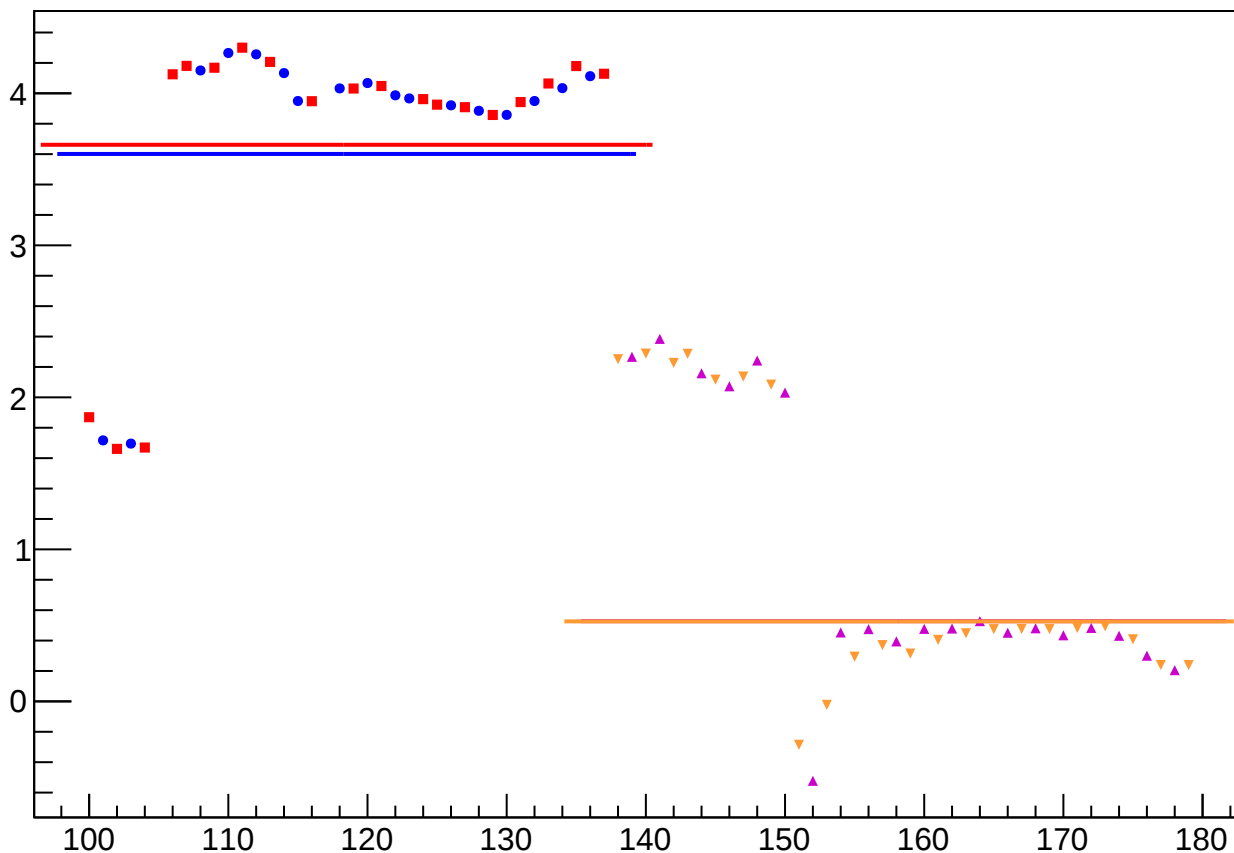
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 347856.0/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 986680.2/36

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 991902.4/40

All: 0.008 $\pm$ 0.000 χ^2/NDF : 1981590.7/77

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2/NDF : 185806937655.3/16

Left Out: 0.526+/-0.000 χ^2/NDF : 265347699581.7/21

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: 0.527+/-0.000 χ^2/NDF : 527397507279.5/41

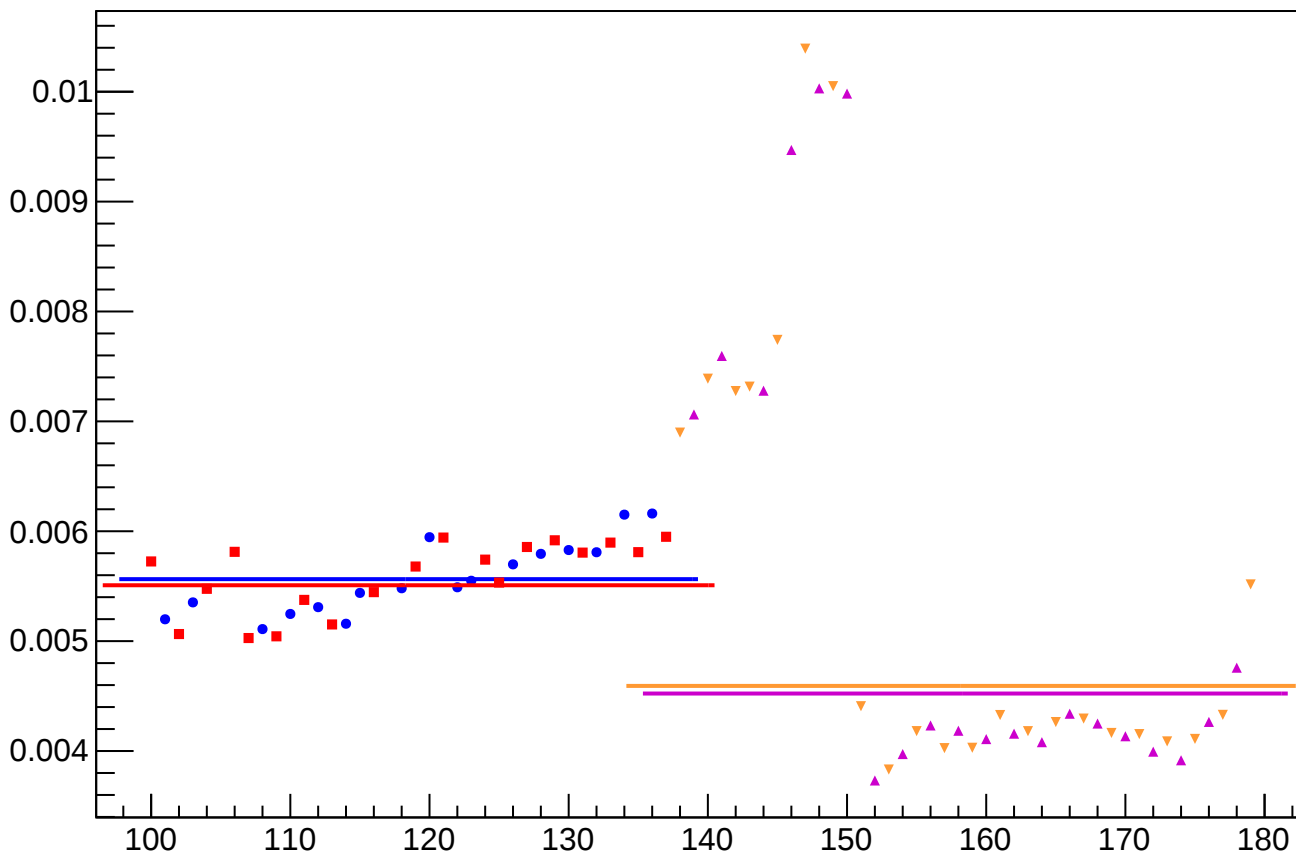
Right: 3.632+/-0.000 χ^2/NDF : 378731188267.1/35

In: 1.272+/-0.000 χ^2/NDF : 1993538501625.0/36

Out: 1.295+/-0.000 χ^2/NDF : 2159010243255.9/40

All: 1.284+/-0.000 χ^2/NDF : 4152780865186.0

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 :2065116.1/21

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 : 4294168.2/41

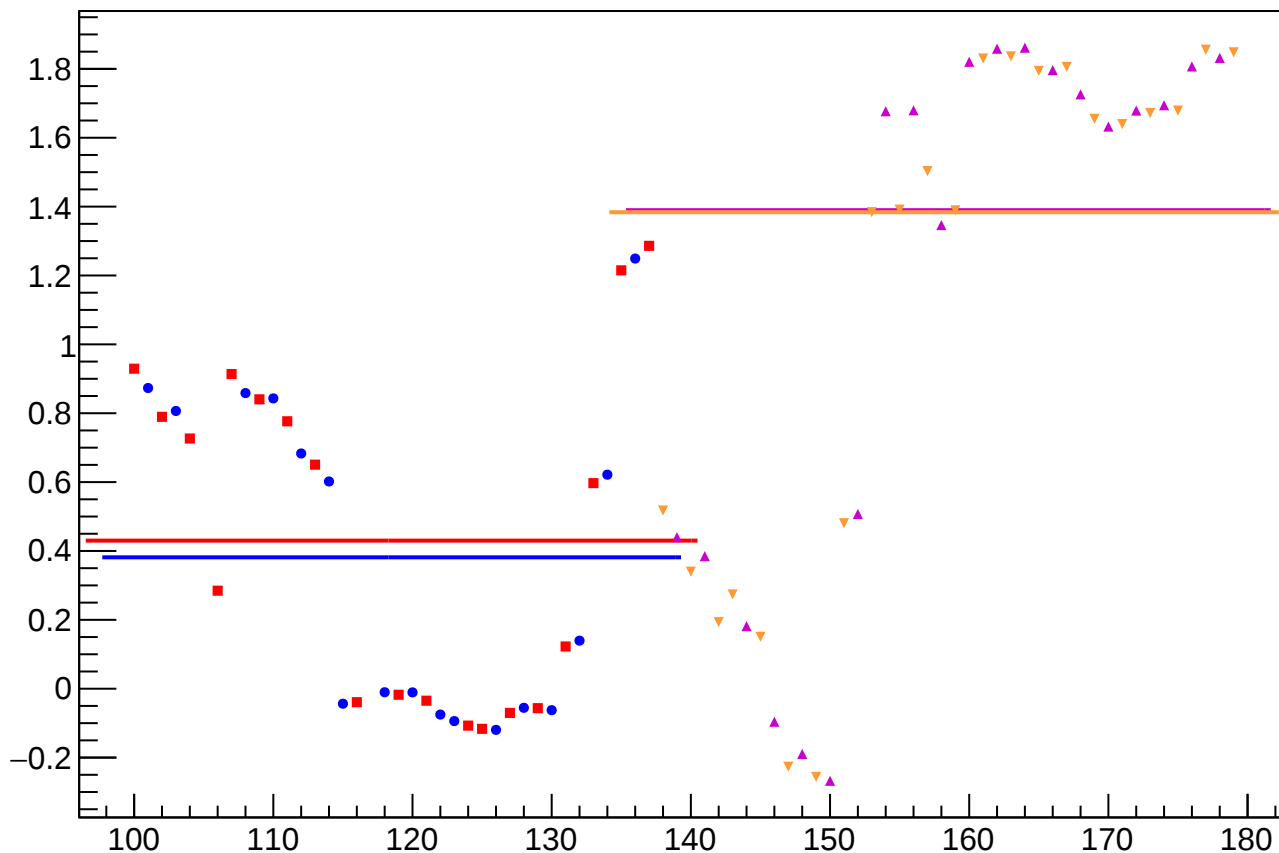
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF :2627957.2/36

Out: 0.005+/-0.000 χ^2/NDF :2408190.5/40

All: 0.005+/-0.000 χ^2/NDF : 5037741.3/77

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382+/-0.000 χ^2/NDF : 7124759123.1/16

Left Out: 1.384+/-0.000 χ^2/NDF : 46407148844.8/21

Right Out: 0.430+/-0.000 χ^2/NDF : 6676199135.9/18

Left In: 1.390+/-0.000 χ^2/NDF : 50557236849.5/19

Left: 1.387+/-0.000 χ^2/NDF : 96966593263.9/41

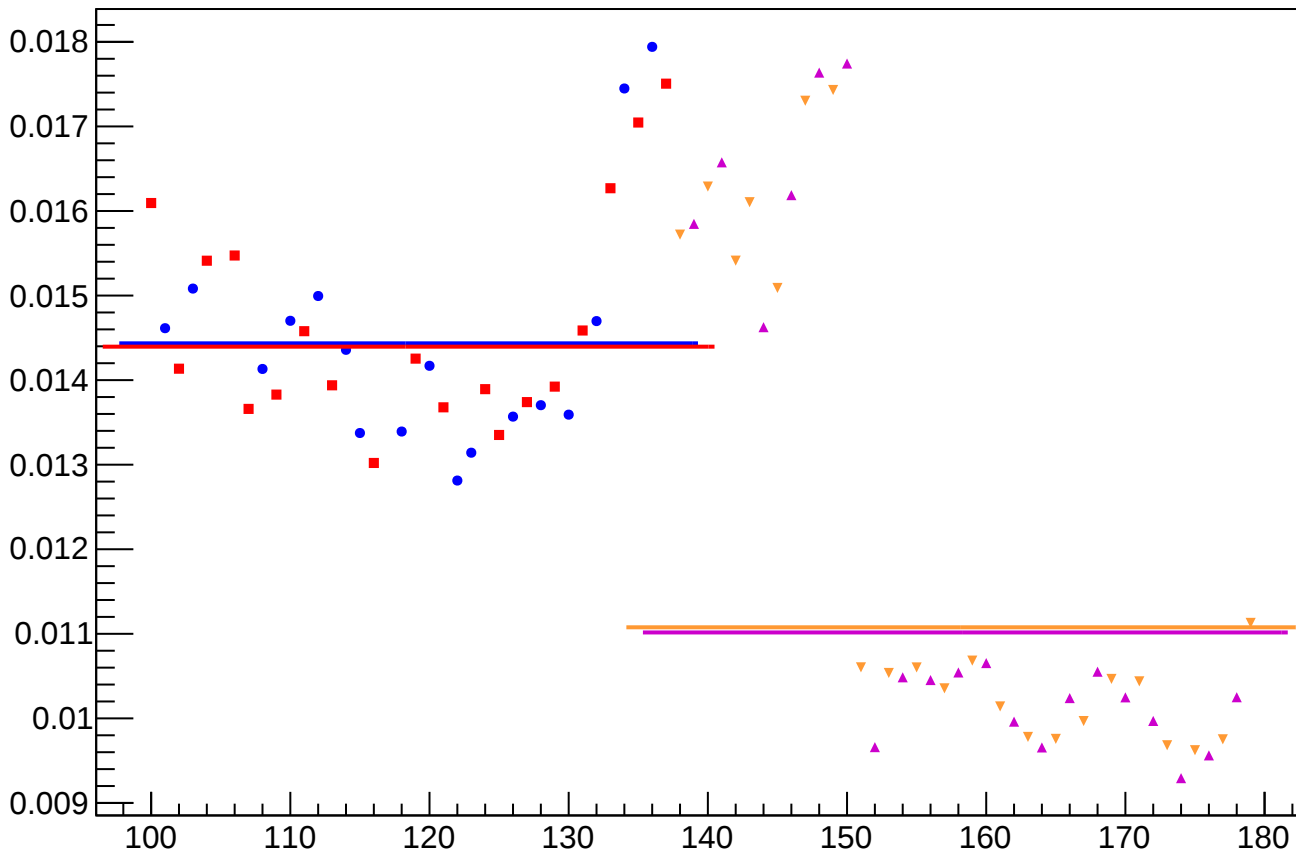
Right: 0.406+/-0.000 χ^2/NDF : 13839390791.2/35

In: 1.180+/-0.000 χ^2/NDF : 83260501891.2/36

Out: 1.186+/-0.000 χ^2/NDF : 77255582851.4/40

All: 1.183+/-0.000 χ^2/NDF : 160519744209.1

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 110224.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1206362.0/21

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 74531.6/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1261658.0/19

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2468481.8/41

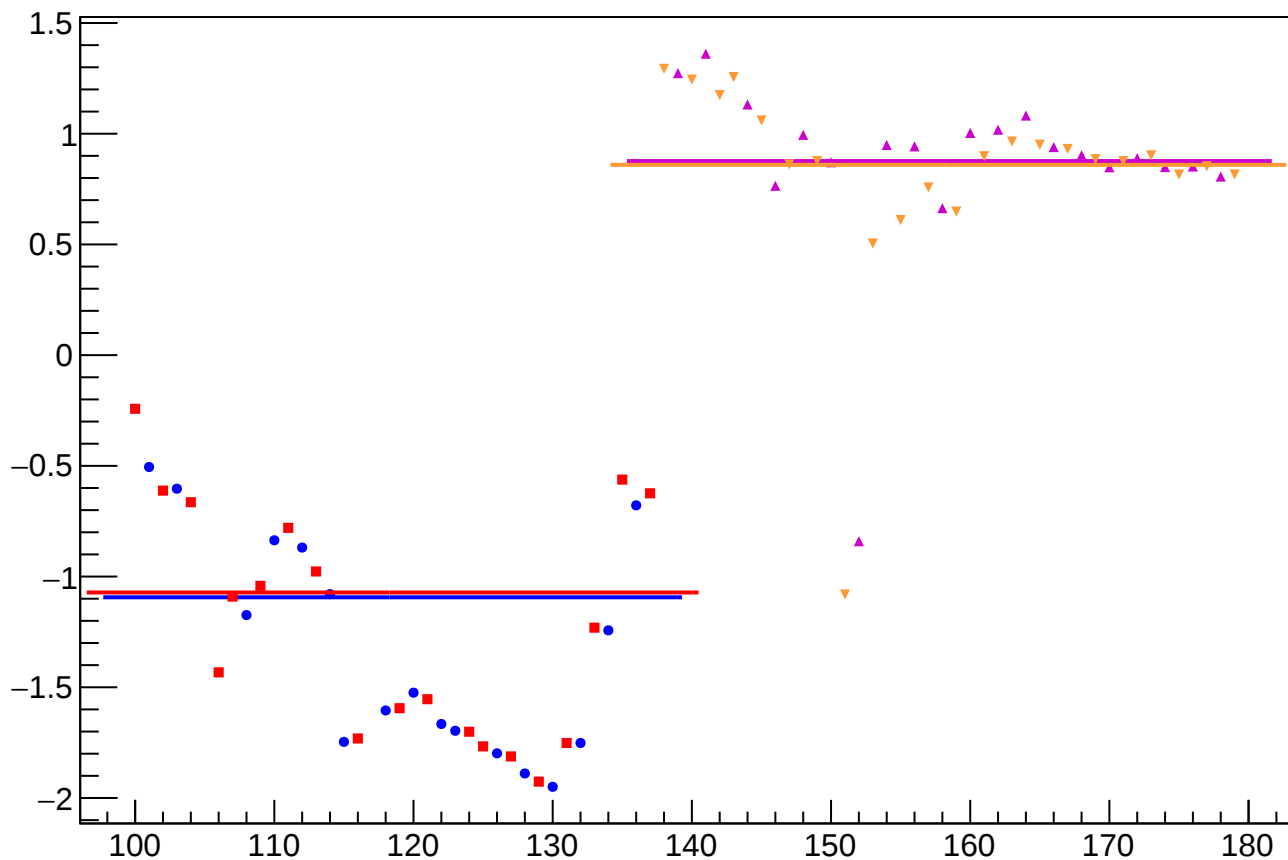
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 184806.5/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:1960172.0/36

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1866280.4/40

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3826645.5/77

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.859+/-0.000 χ^2/NDF : 125129128925.8/21

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: 0.868+/-0.000 χ^2/NDF : 271527712858.4/41

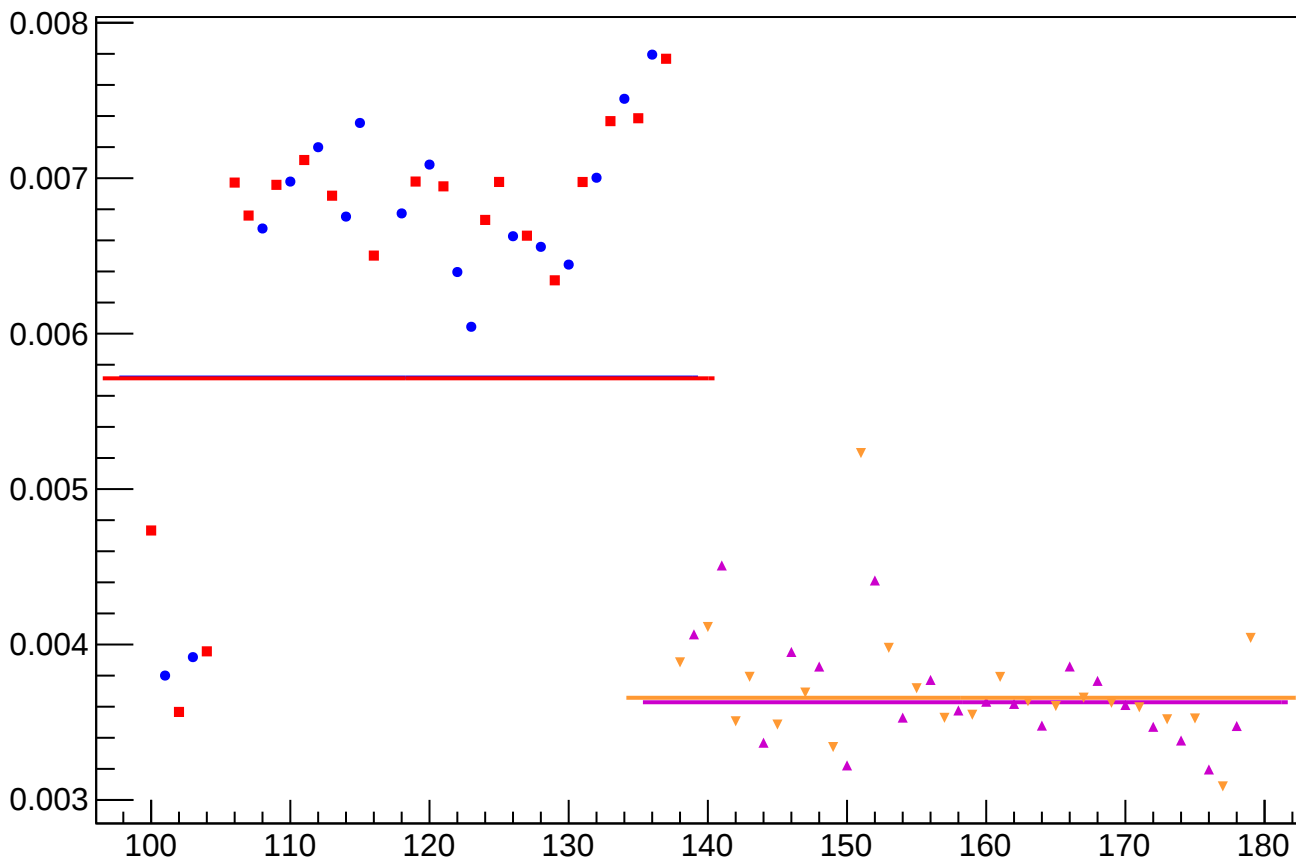
Right: -1.083+/-0.000 χ^2/NDF : 102900070258.1/35

In: 0.588+/-0.000 χ^2/NDF : 804094179536.5/36

Out: 0.581+/-0.000 χ^2/NDF : 774953735268.0/40

All: 0.585+/-0.000 χ^2/NDF : 1579079852240.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 837775.0/16

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:235213.1/21

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 923899.1/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:219136.1/19

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 455256.7/41

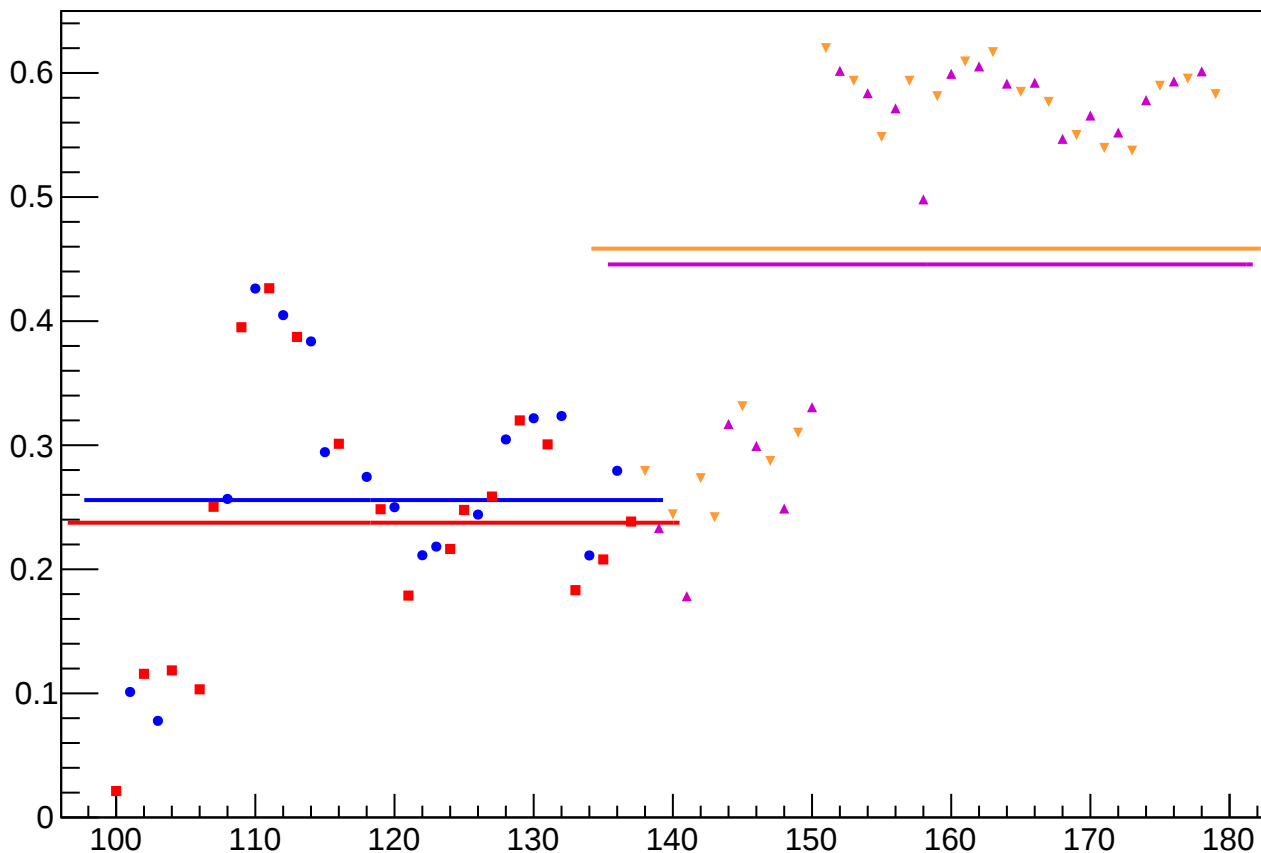
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 1761678.7/35

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2410282.4/36

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:2524367.8/40

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 4935131.2/77

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21365489849.4/16

Left Out: 0.458+/-0.000 χ^2/NDF : 96665328606.7/21

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: 0.452+/-0.000 χ^2/NDF : 192736085310.2/41

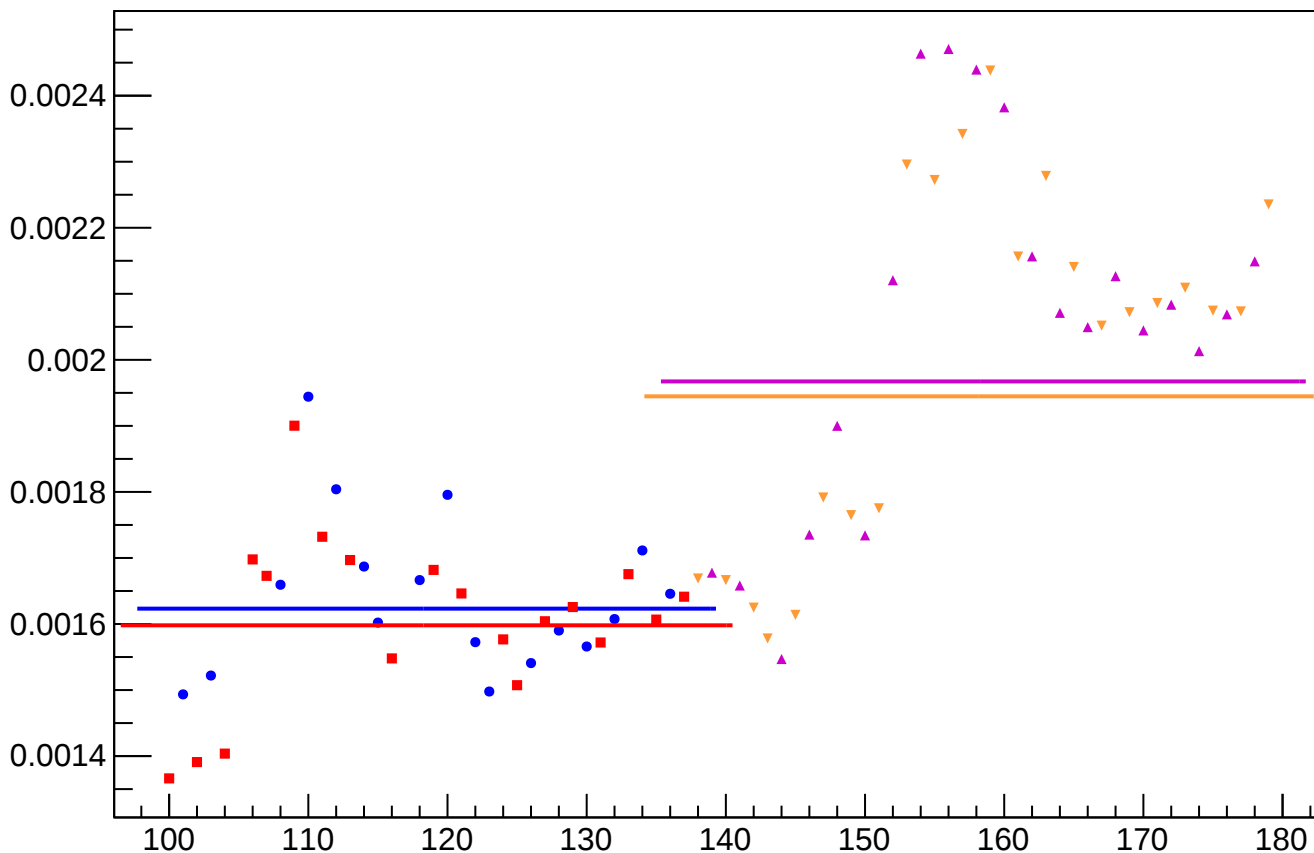
Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

In: 0.372+/-0.000 χ^2/NDF : 171053946403.0/36

Out: 0.372+/-0.000 χ^2/NDF : 203811399501.2/40

All: 0.372+/-0.000 χ^2/NDF : 374865860841.8

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 : 596444.1/21

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 : 1179287.1/41

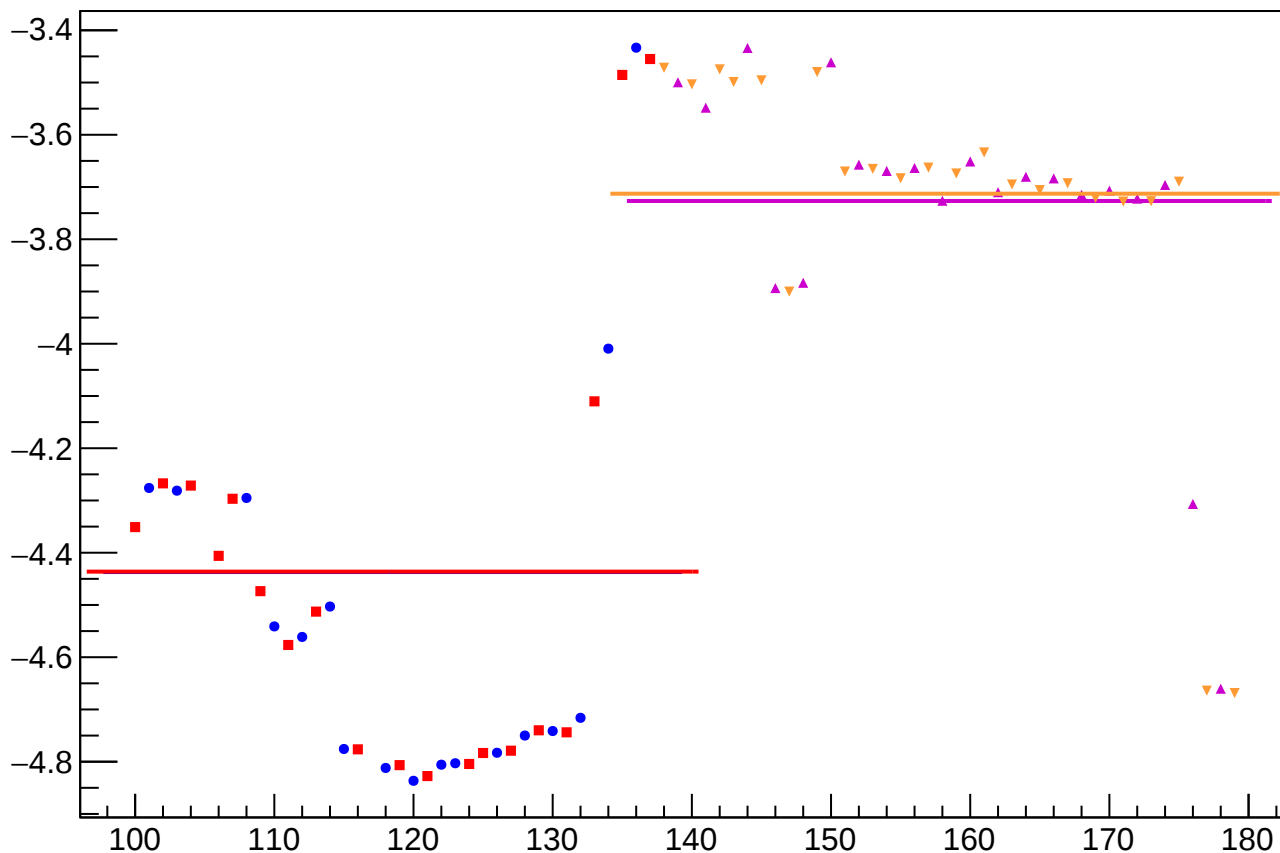
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF : 987338.5/36

Out: 0.002+/-0.000 χ^2/NDF : 1086718.8/40

All: 0.002+/-0.000 χ^2/NDF : 2077903.5/77

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437 $\pm$ 0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.713 $\pm$ 0.000 χ^2/NDF : 320381632358.0/21

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: -3.719 $\pm$ 0.000 χ^2/NDF : 553049611189.7/41

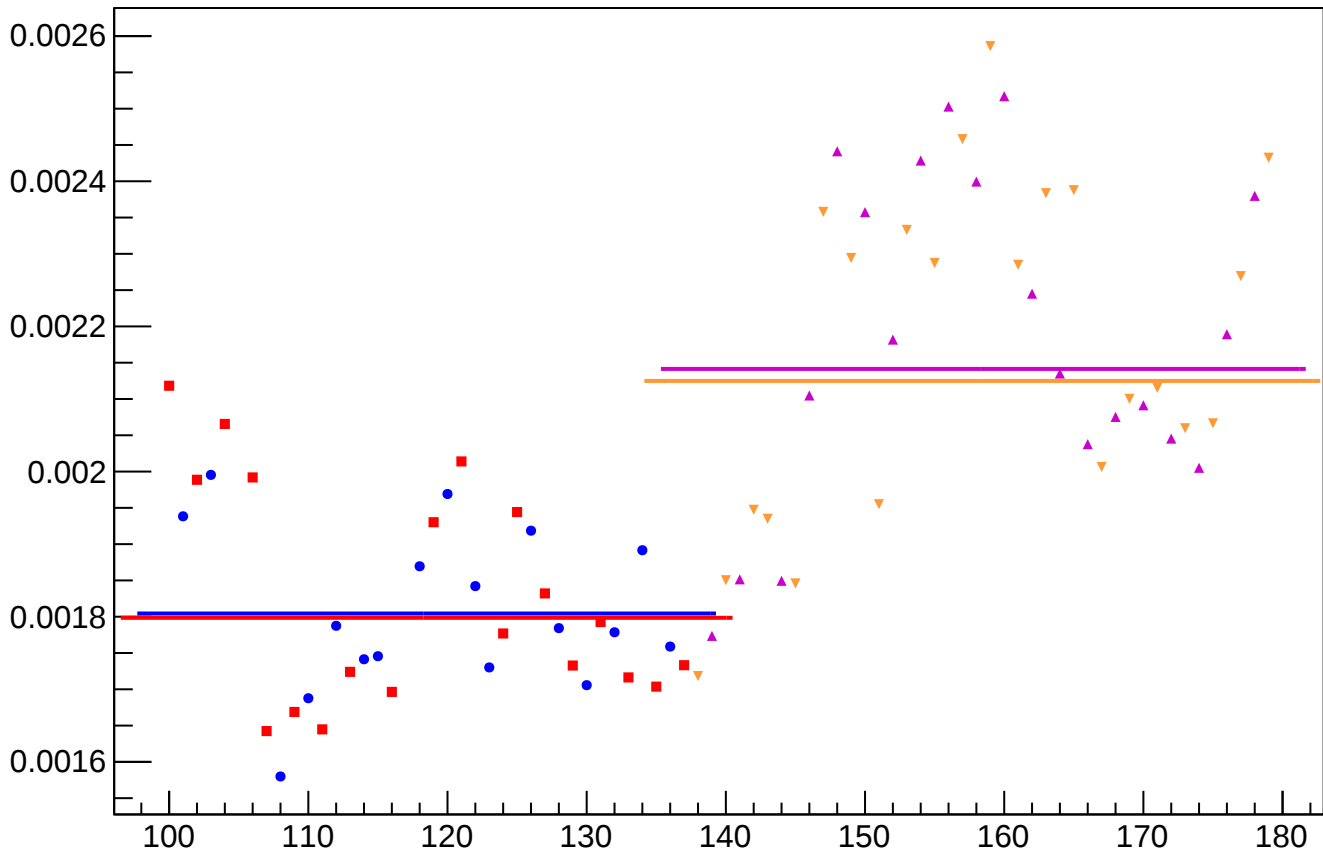
Right: -4.437 $\pm$ 0.000 χ^2/NDF : 717996921060.6/35

In: -3.996 $\pm$ 0.000 χ^2/NDF : 1251372967611.5/36

Out: -3.983 $\pm$ 0.000 χ^2/NDF : 1341745168491.2/40

All: -3.989 $\pm$ 0.000 χ^2/NDF : 2593558290044

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 : 377992.6/21

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 : 701376.4/41

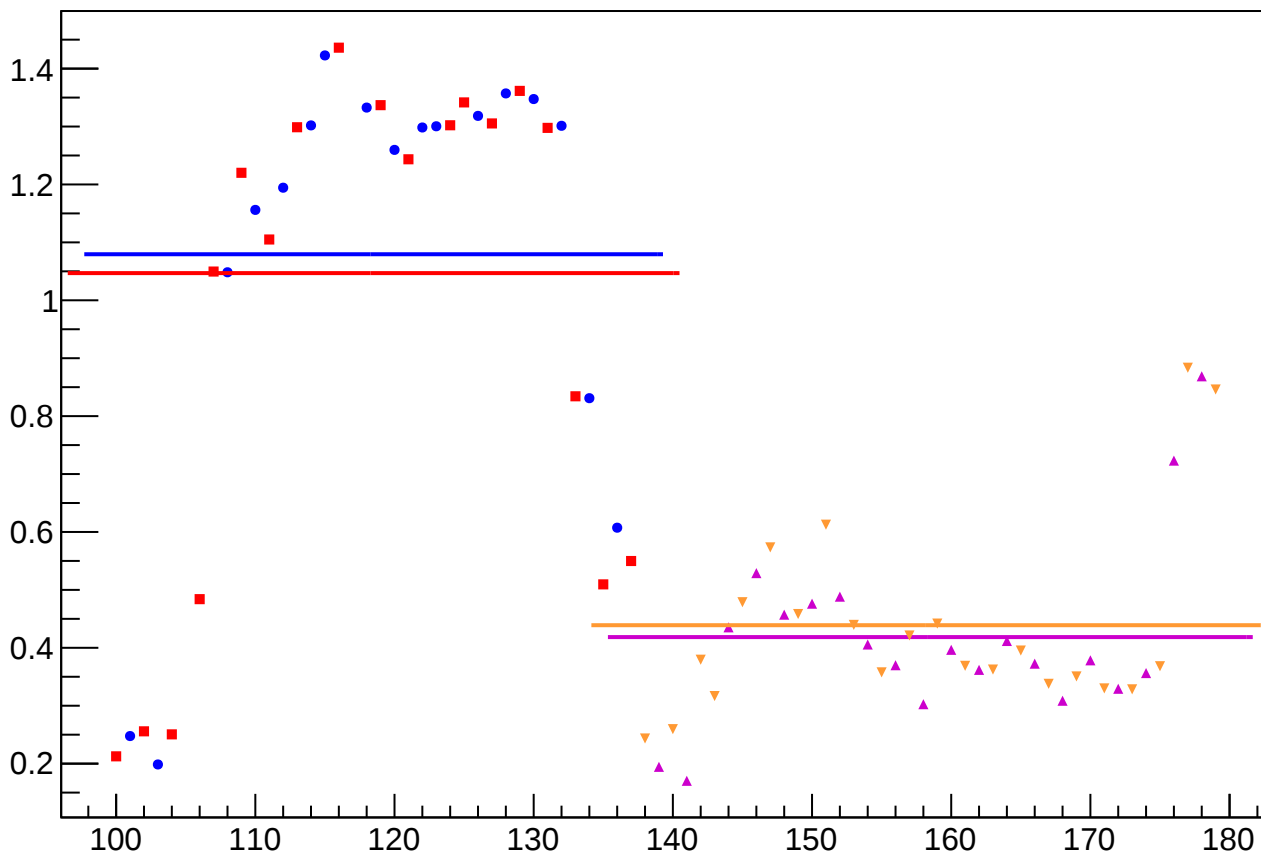
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF : 653531.0/36

Out: 0.002+/-0.000 χ^2/NDF : 742381.5/40

All: 0.002+/-0.000 χ^2/NDF : 1396557.9/77

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080+/-0.000 χ^2/NDF : 17533321220.5/16

Left Out: 0.439+/-0.000 χ^2/NDF : 5370291958.9/21

Right Out: 1.047+/-0.000 χ^2/NDF : 19683192379.0/18

Left In: 0.419+/-0.000 χ^2/NDF : 4390671058.0/19

Left: 0.429+/-0.000 χ^2/NDF : 9799117002.8/41

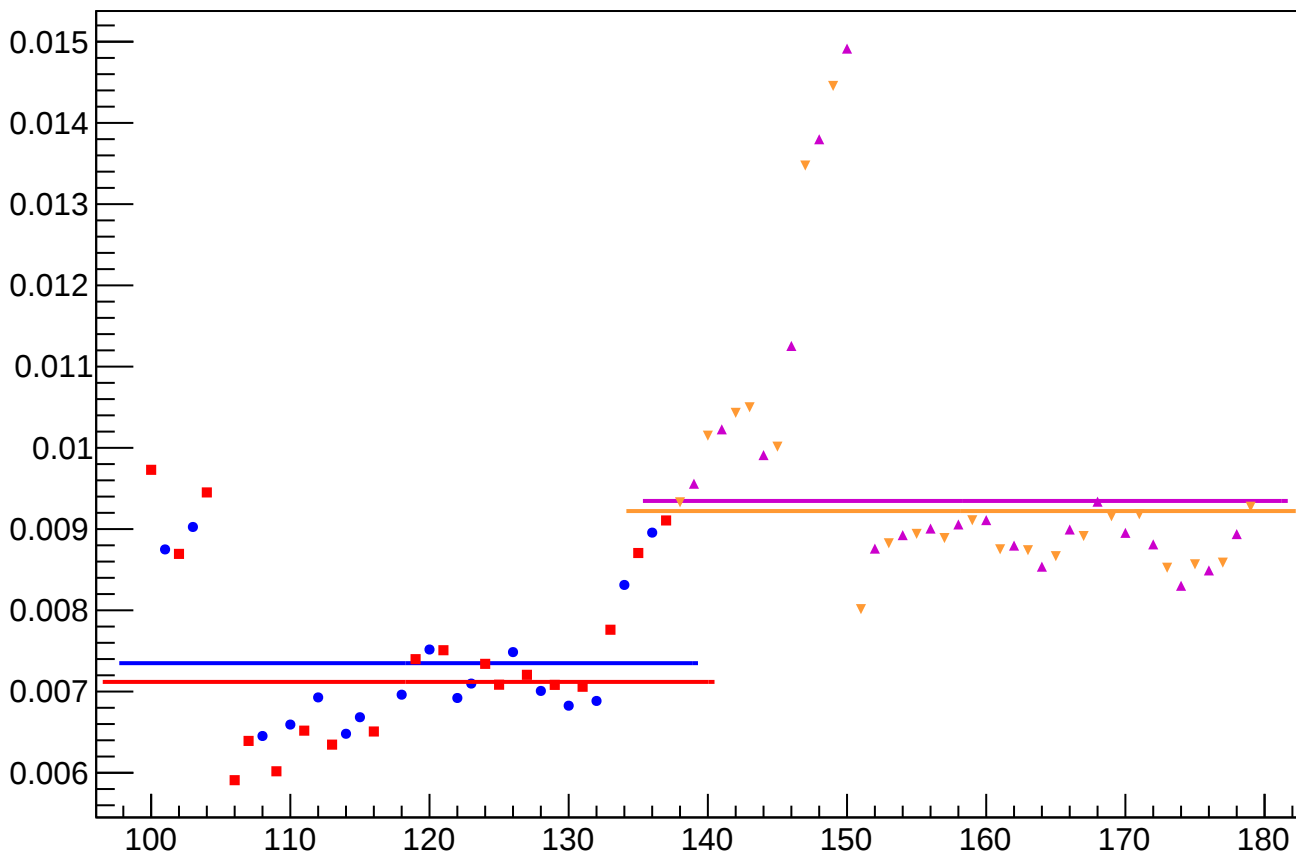
Right: 1.062+/-0.000 χ^2/NDF : 37285218980.1/35

In: 0.693+/-0.000 χ^2/NDF : 53202199564.5/36

Out: 0.694+/-0.000 χ^2/NDF : 54616377745.5/40

All: 0.693+/-0.000 χ^2/NDF : 107818738746.6

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180818.7/16

Left Out: 0.009+/-0.000 χ^2/NDF : 505459.2/21

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 : 1063763.4/41

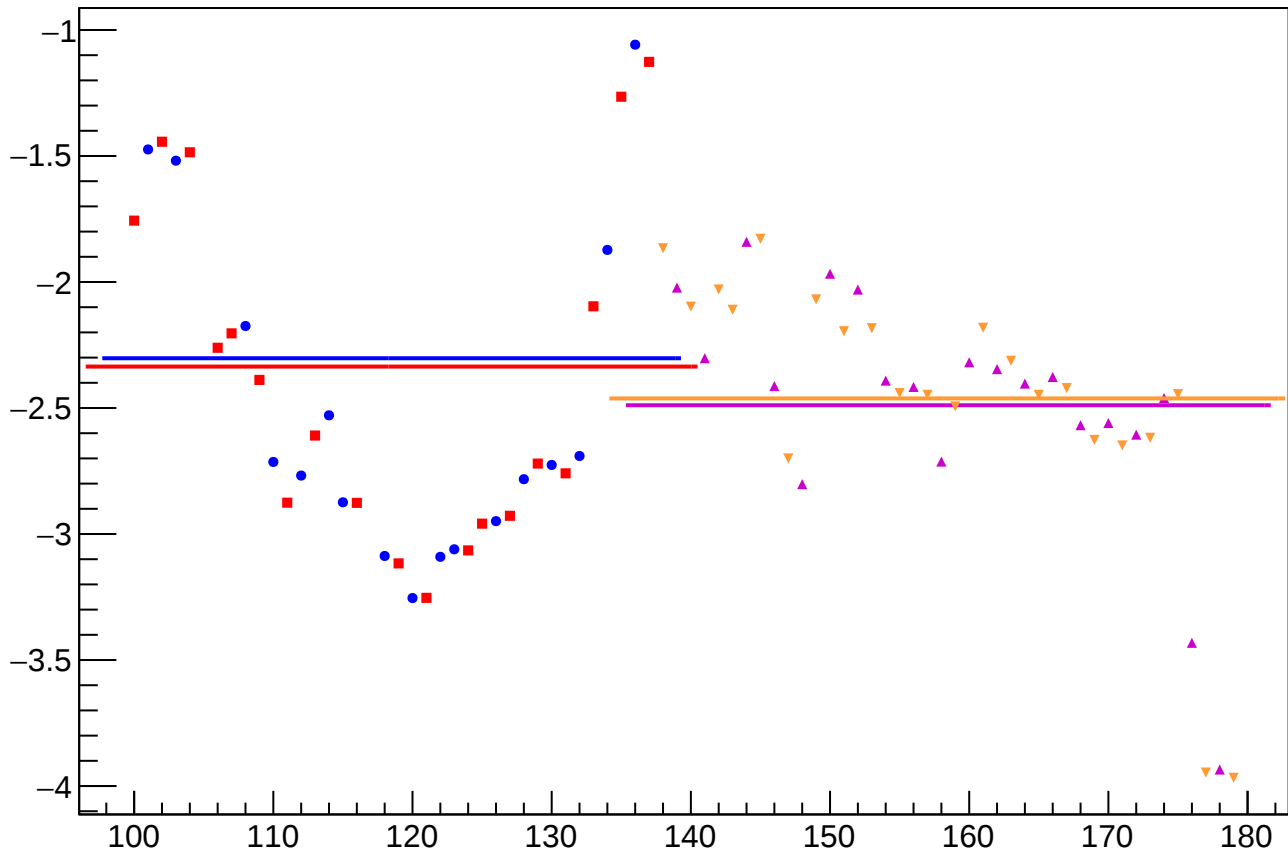
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1307277.7/36

Out: 0.008+/-0.000 χ^2/NDF : 1472235.4/40

All: 0.008+/-0.000 χ^2/NDF : 2789280.1/77

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.462+/-0.000 χ^2/NDF : 59236723601.9/21

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: -2.475+/-0.000 χ^2/NDF : 101493972198.7/41

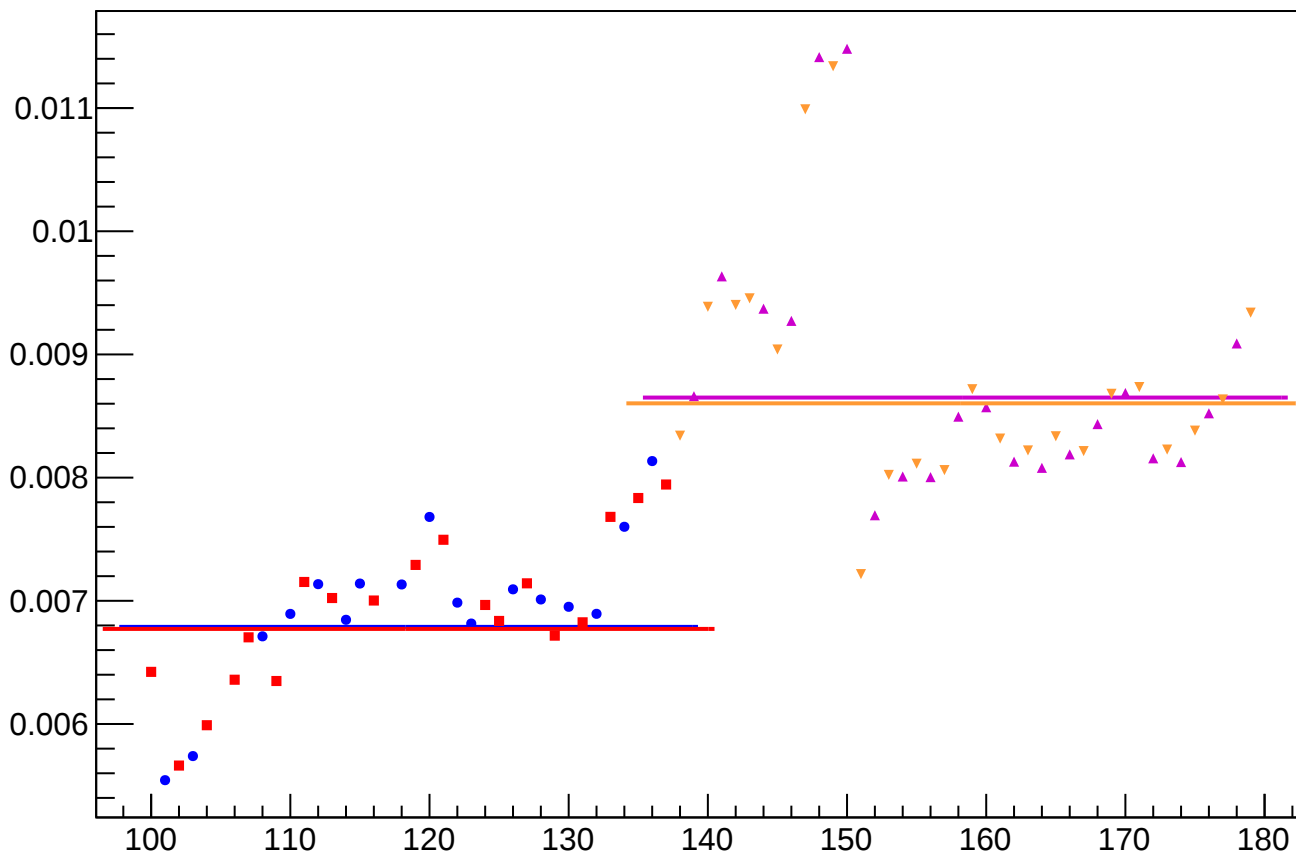
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.412+/-0.000 χ^2/NDF : 118869358306.1/36

Out: -2.410+/-0.000 χ^2/NDF : 125186567182.0/40

All: -2.411+/-0.000 χ^2/NDF : 244056415743.5

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 :304209.0/21

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 : 617760.2/41

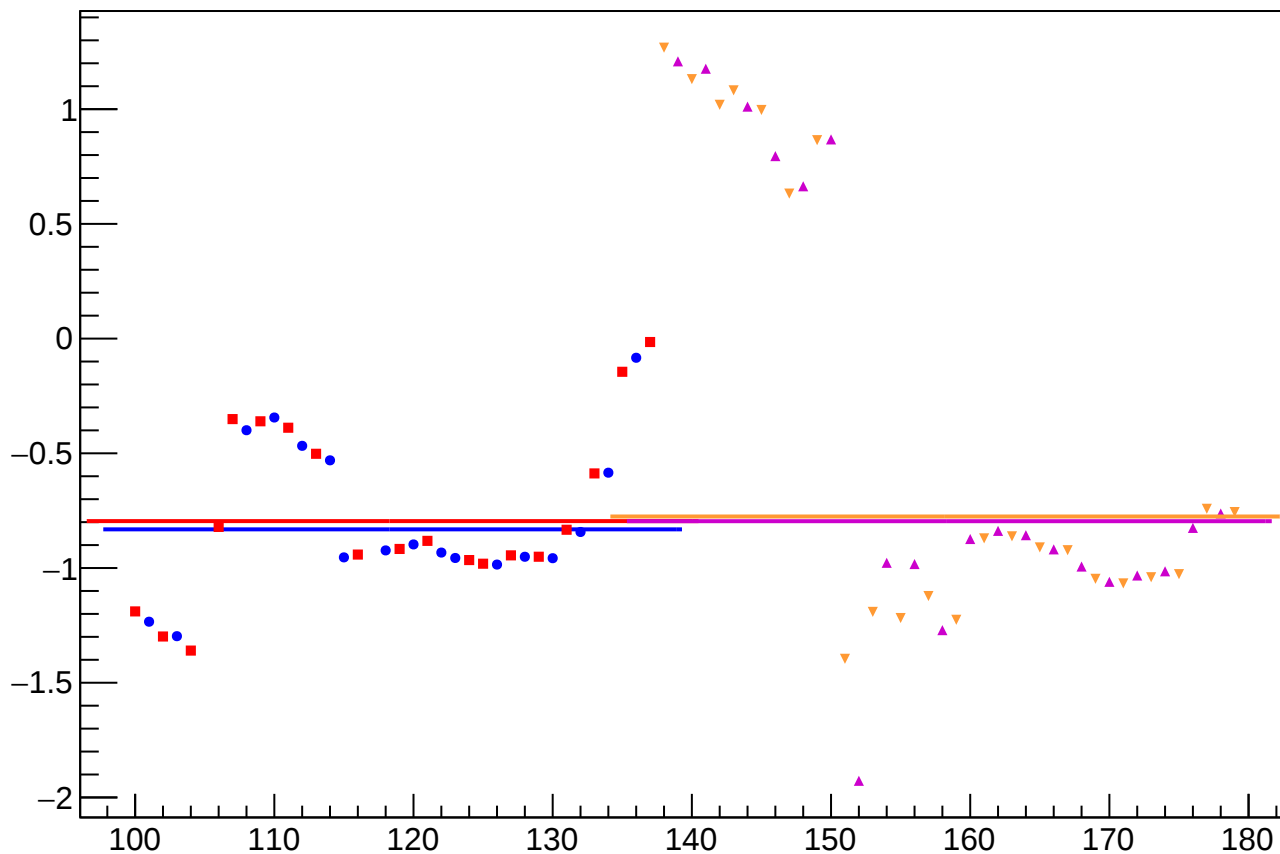
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF :1063114.6/36

Out: 0.008+/-0.000 χ^2/NDF :1036091.1/40

All: 0.008+/-0.000 χ^2/NDF : 2099466.6/77

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left: -0.785+/-0.000

χ^2/NDF : 241927300933.5/41

Left Out: -0.775+/-0.000

χ^2/NDF : 118485704273.3/21

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: -0.779+/-0.000

χ^2/NDF : 126326929371.4/40

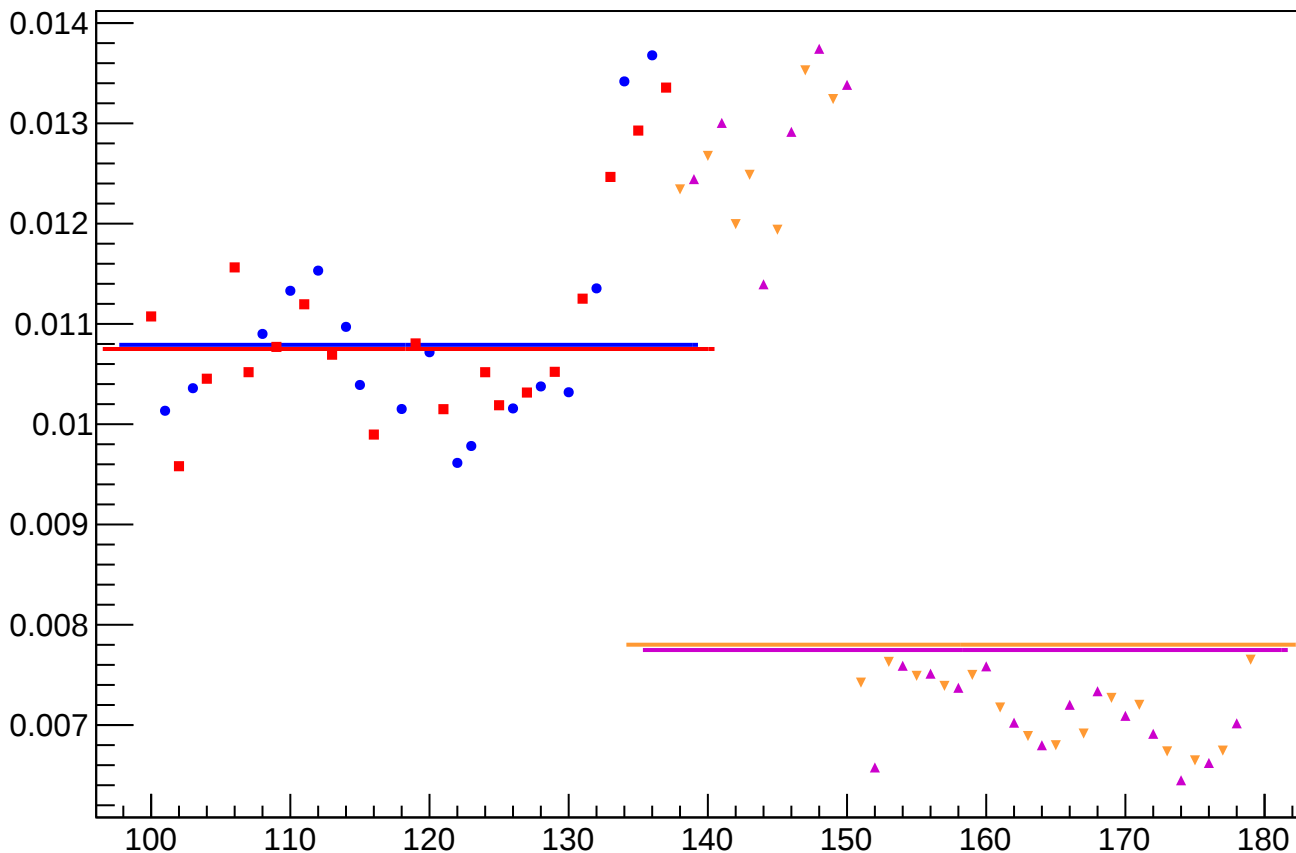
Left In: -0.796+/-0.000

χ^2/NDF : 123390128723.9/19

All: -0.791+/-0.000

χ^2/NDF : 256550462554.7

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :1676231.0/21

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 : 3417174.5/41

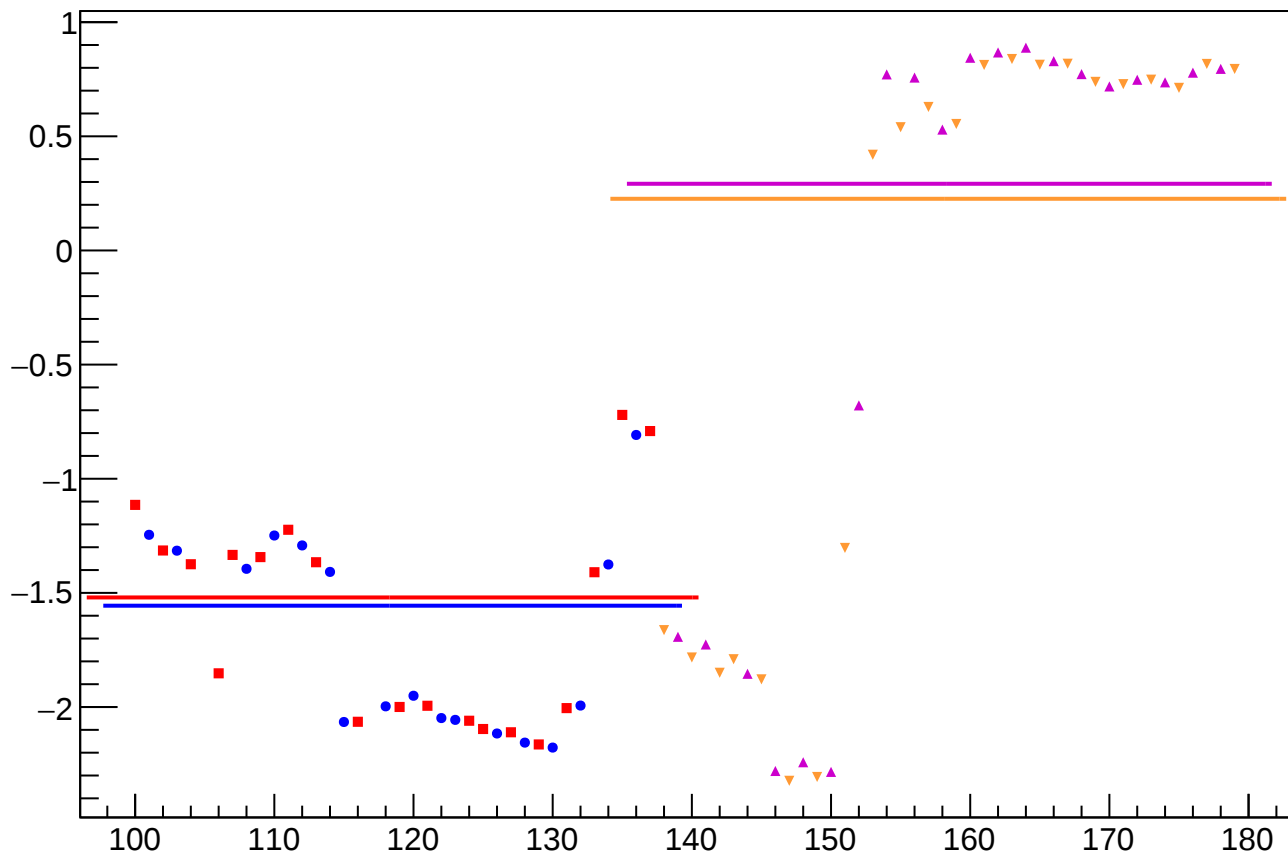
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.008+/-0.000 χ^2/NDF :2710969.8/36

Out: 0.008+/-0.000 χ^2/NDF :2606149.0/40

All: 0.008+/-0.000 χ^2/NDF : 5317438.3/77

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: 0.226+/-0.000 χ^2/NDF : 2462209491002.2/21

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: 0.258+/-0.000 χ^2/NDF : 4681453007701.1/41

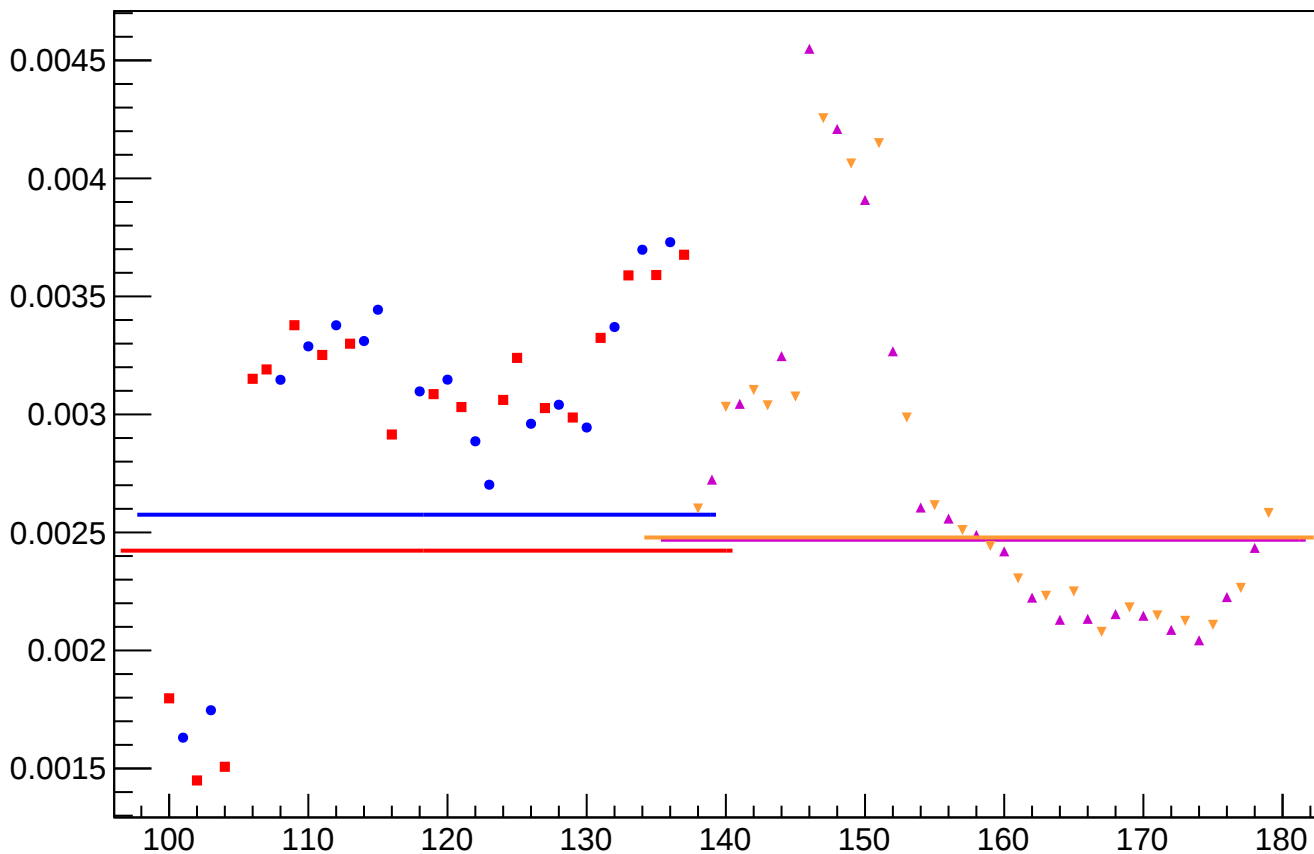
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.225+/-0.000 χ^2/NDF : 4469000037557.0/36

Out: -0.280+/-0.000 χ^2/NDF : 4691788548783.1/40

All: -0.254+/-0.000 χ^2/NDF : 9165655315626

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 :1059790.3/21

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 : 2191787.1/41

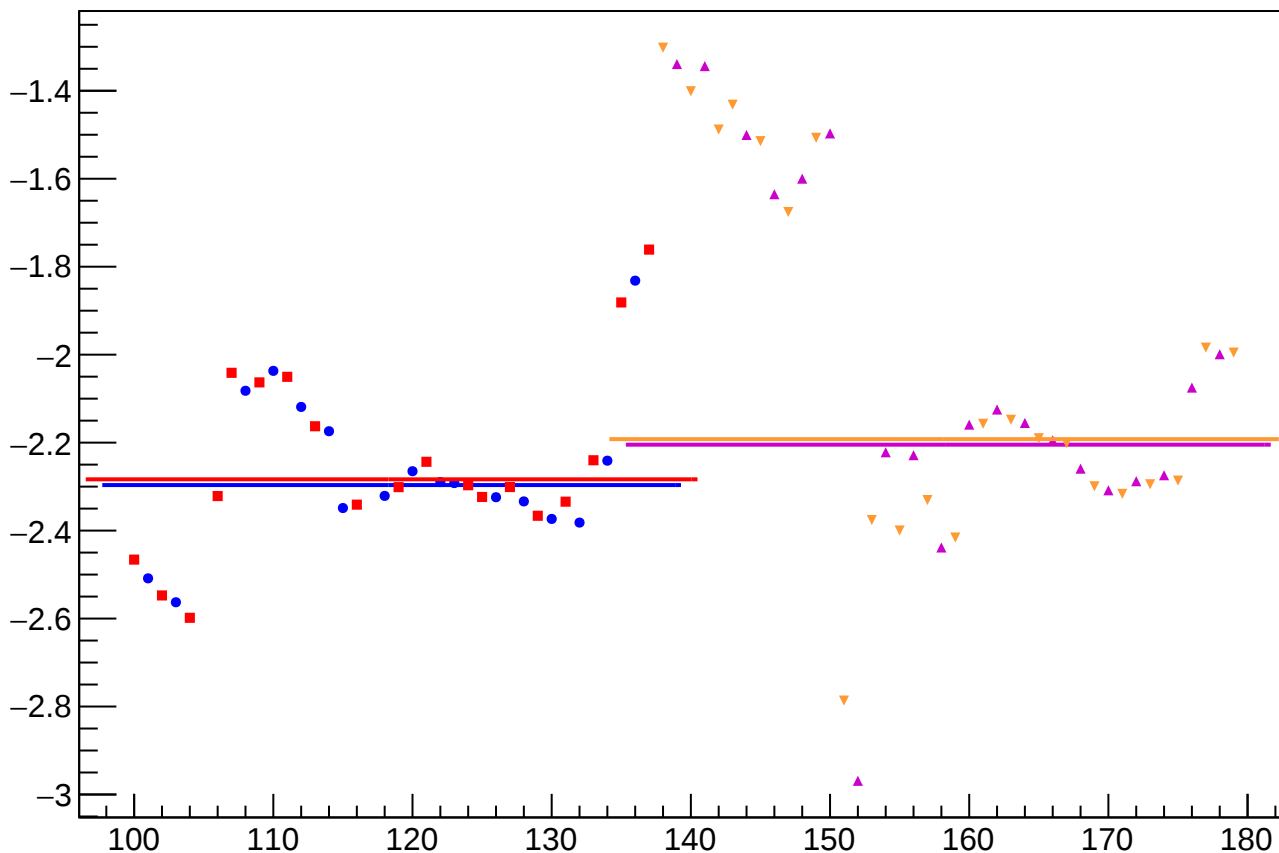
Right: 0.002+/-0.000 χ^2/NDF : 2524978.4/35

In: 0.002+/-0.000 χ^2/NDF :2159434.3/36

Out: 0.002+/-0.000 χ^2/NDF :2554187.4/40

All: 0.002+/-0.000 χ^2/NDF : 4717830.5/77

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.192+/-0.000 χ^2/NDF : 56599623723.9/21

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: -2.198+/-0.000 χ^2/NDF : 126665209279.0/41

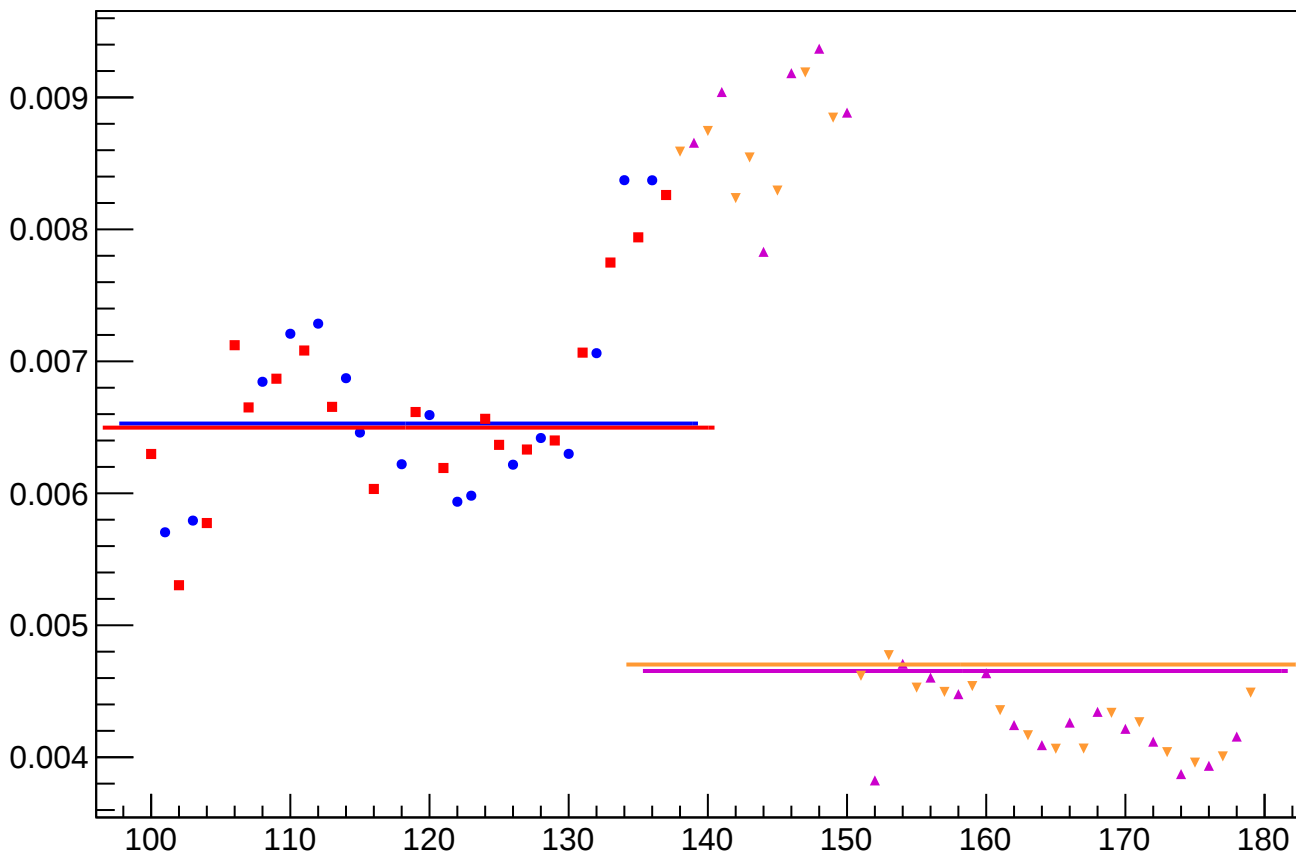
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.222+/-0.000 χ^2/NDF : 76828587942.2/36

Out: -2.210+/-0.000 χ^2/NDF : 64232123449.6/40

All: -2.216+/-0.000 χ^2/NDF : 141126115000.7

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 :2274467.7/21

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 : 4630323.5/41

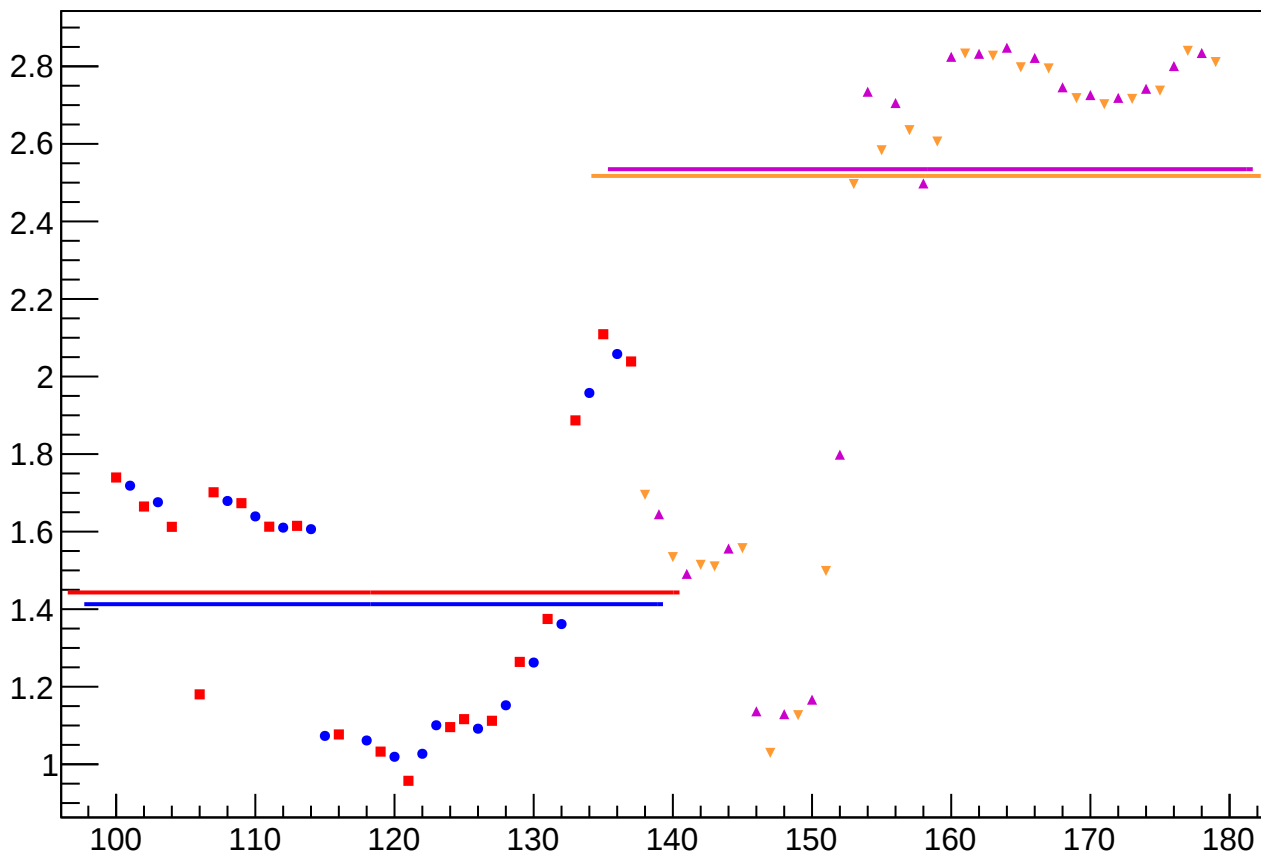
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF :3391693.0/36

Out: 0.005+/-0.000 χ^2/NDF :3274539.0/40

All: 0.005+/-0.000 χ^2/NDF : 6667133.7/77

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.517+/-0.000 χ^2/NDF : 258059003982.9/21

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: 2.526+/-0.000 χ^2/NDF : 509125783252.6/41

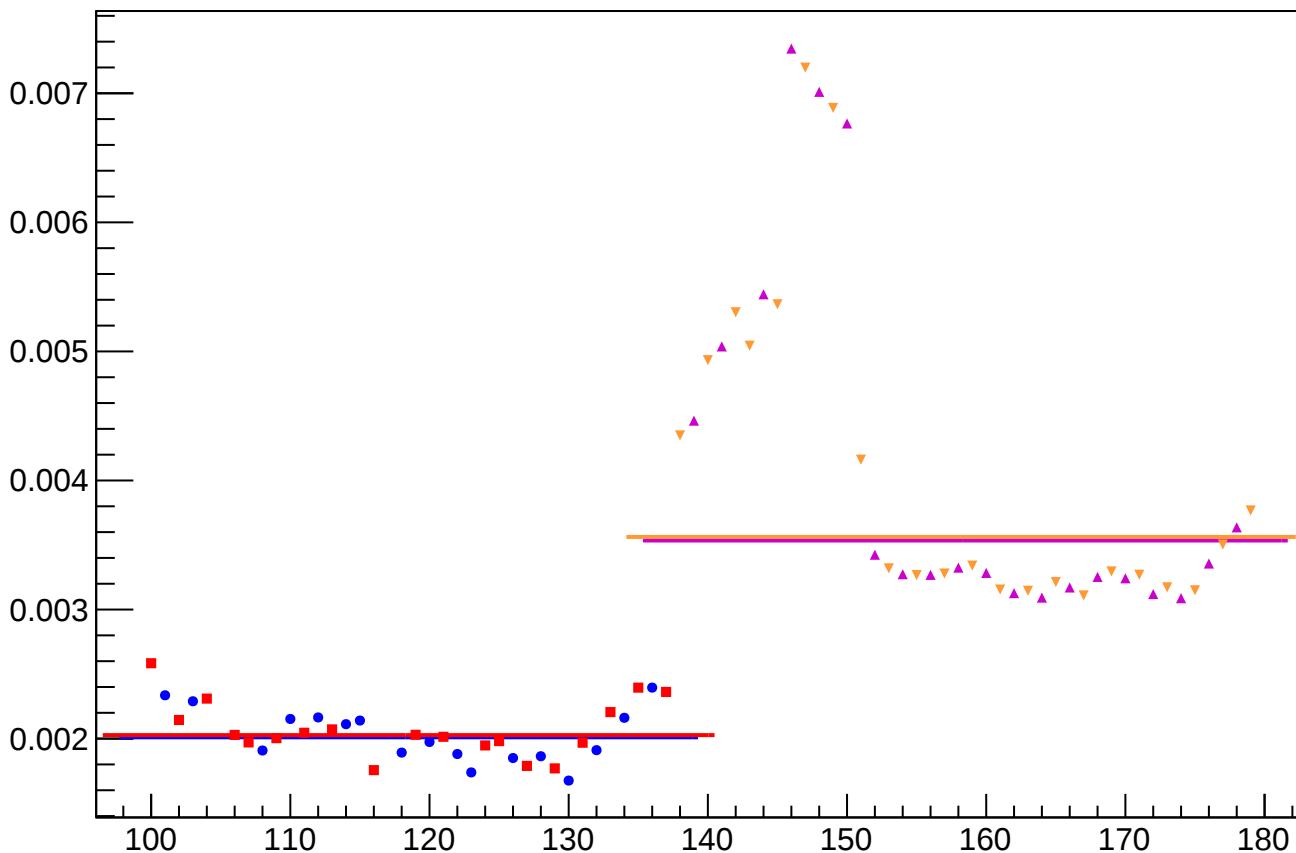
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.883+/-0.000 χ^2/NDF : 1228301175870.5/36

Out: 1.902+/-0.000 χ^2/NDF : 1209339356470.9/40

All: 1.893+/-0.000 χ^2/NDF : 2438142356941.7/76

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 :1355278.6/21

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 : 2893244.0/41

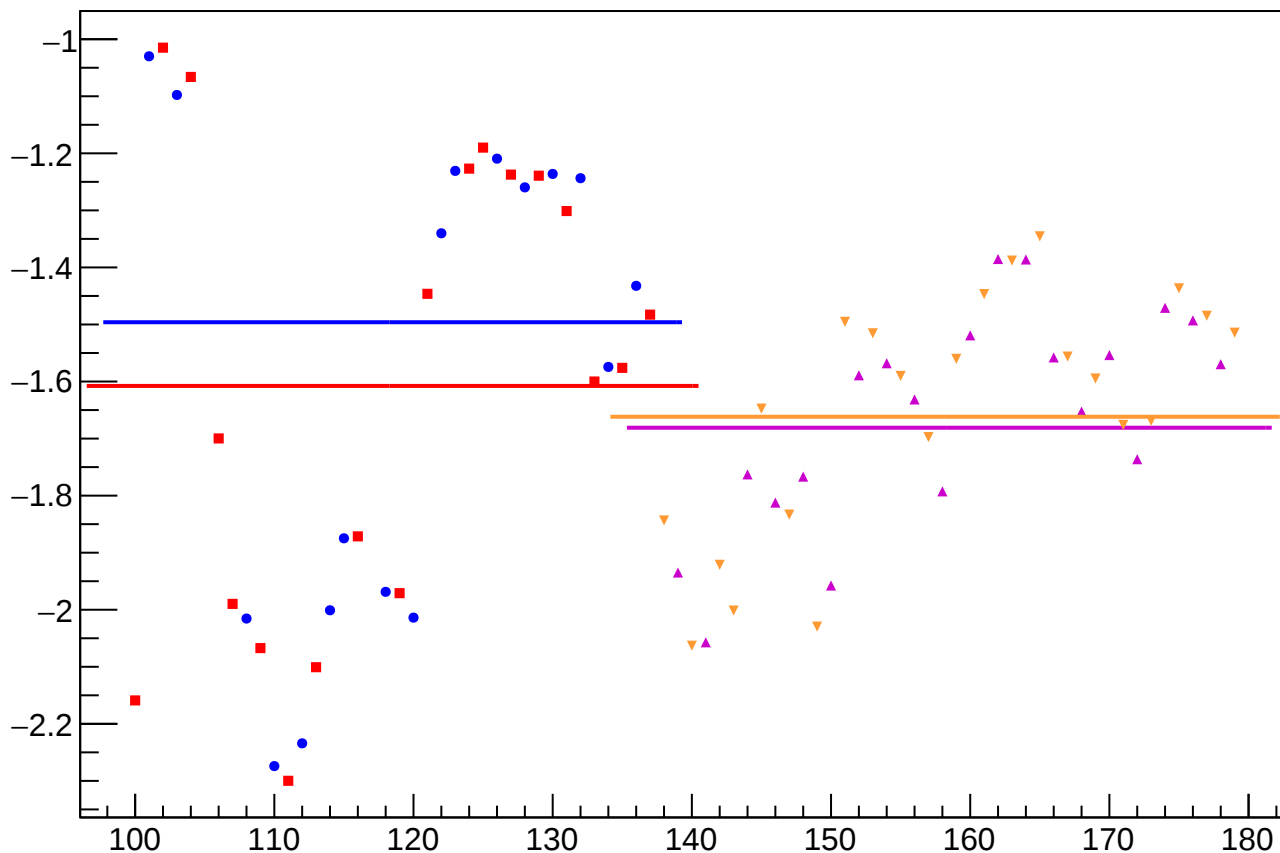
Right: 0.002+/-0.000 χ^2/NDF : 256903.9/35

In: 0.003+/-0.000 χ^2/NDF :4663717.6/36

Out: 0.003+/-0.000 χ^2/NDF :4638440.8/40

All: 0.003+/-0.000 χ^2/NDF : 9305323.8/77

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.662+/-0.000 χ^2/NDF : 17869877835.8/21

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: -1.671+/-0.000 χ^2/NDF : 31076630985.2/41

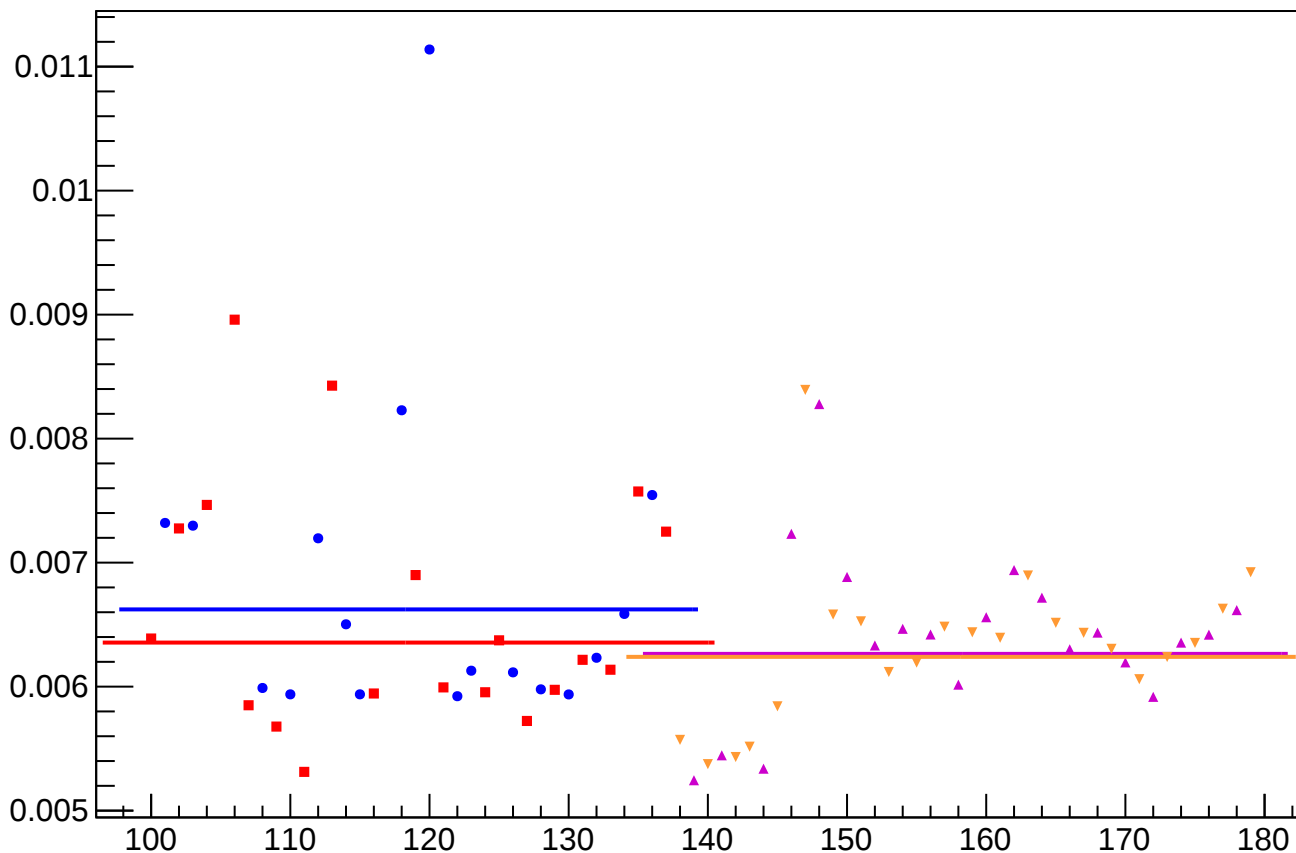
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.631+/-0.000 χ^2/NDF : 39115360440.8/36

Out: -1.646+/-0.000 χ^2/NDF : 46045415343.4/40

All: -1.639+/-0.000 χ^2/NDF : 85225911542.8/80

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 :250066.3/21

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 : 549009.1/41

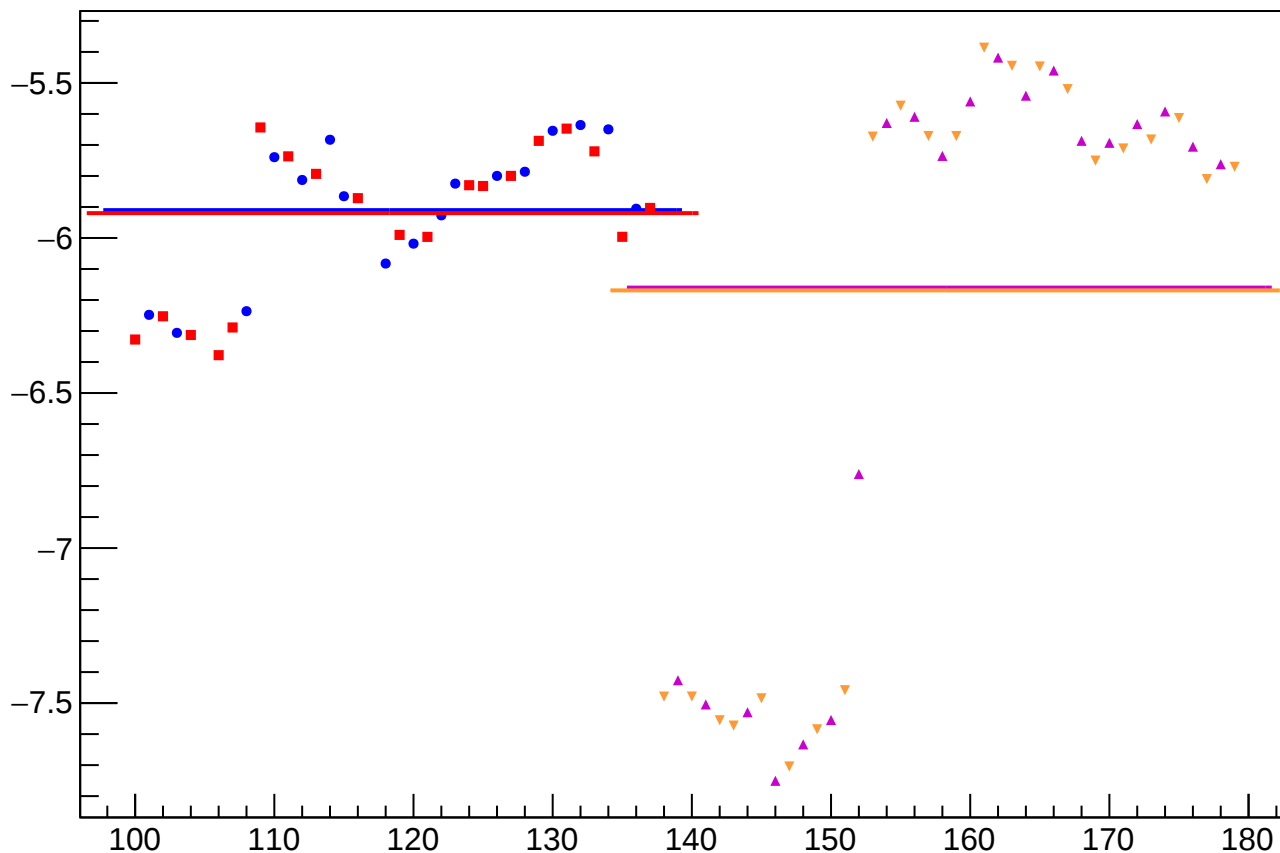
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :557346.3/36

Out: 0.006+/-0.000 χ^2/NDF :481012.2/40

All: 0.006+/-0.000 χ^2/NDF : 1042569.5/77

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.169+/-0.000 χ^2/NDF : 180264257250.7/21

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: -6.165+/-0.000 χ^2/NDF : 335215650072.2/41

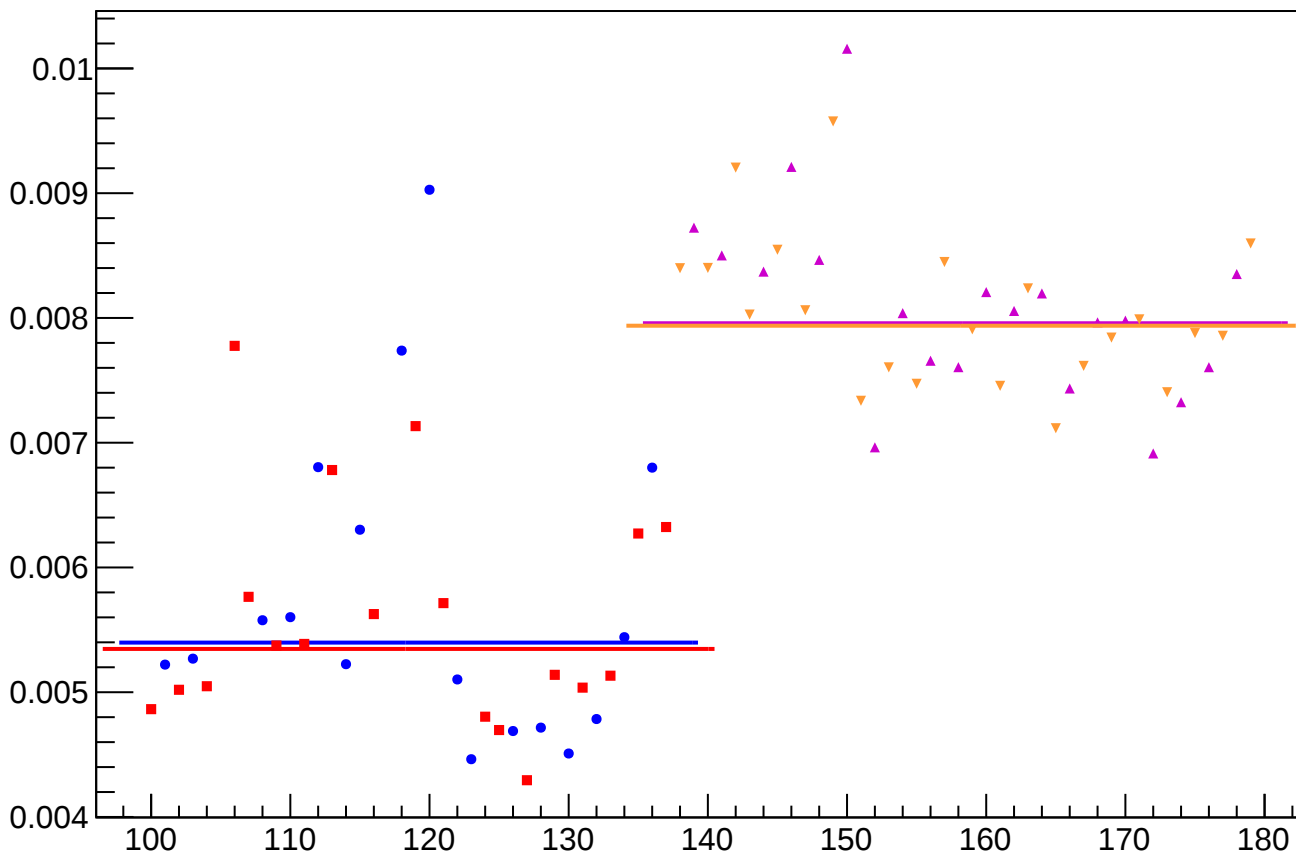
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.041+/-0.000 χ^2/NDF : 172705804363.4/36

Out: -6.048+/-0.000 χ^2/NDF : 200178551704.6/40

All: -6.045+/-0.000 χ^2/NDF : 372897467180.9

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :132670.5/21

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :207593.3/19

Left: 0.008+/-0.000 χ^2/NDF : 340352.7/41

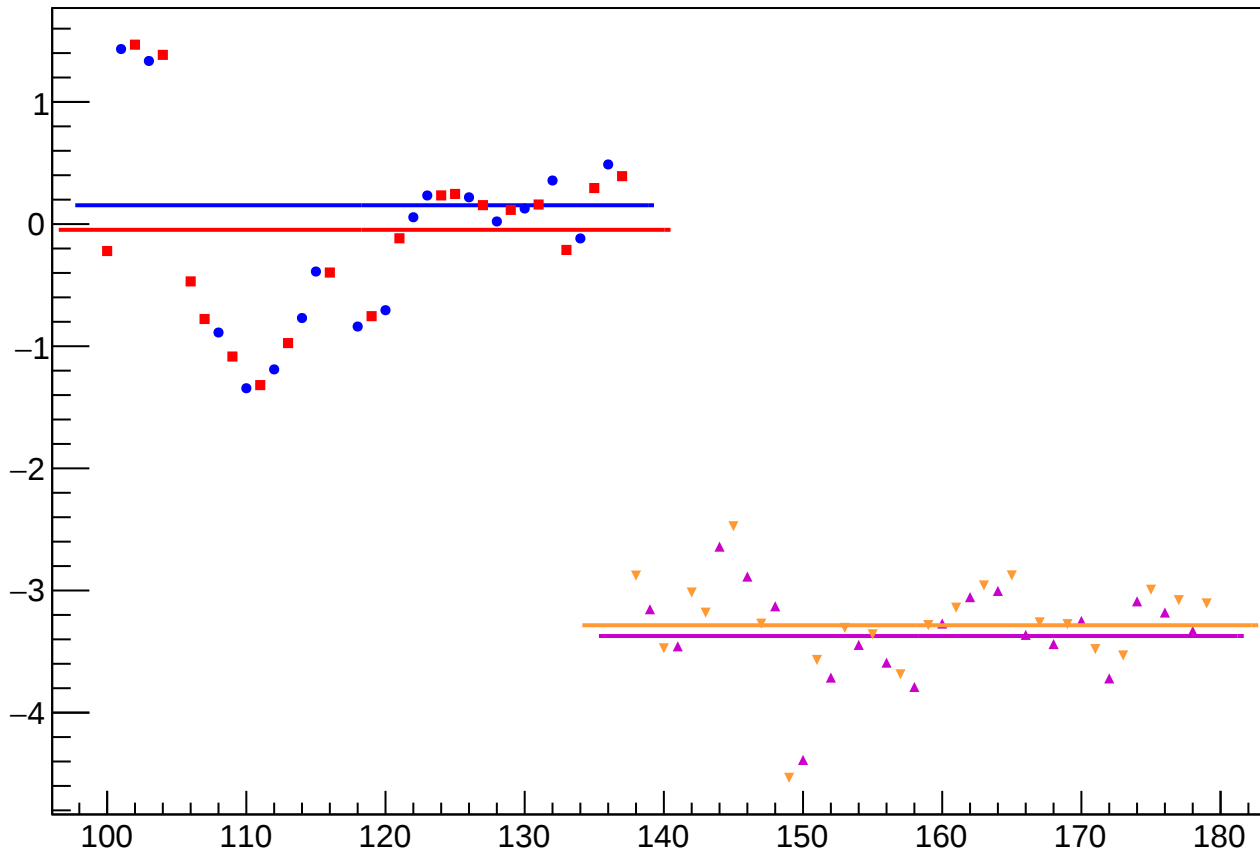
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1966739.1/36

Out: 0.007+/-0.000 χ^2/NDF :1923905.6/40

All: 0.007+/-0.000 χ^2/NDF : 3891810.3/77

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.285+/-0.000 χ^2/NDF : 8781035534.2/21

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: -3.327+/-0.000 χ^2/NDF : 16756553856.5/41

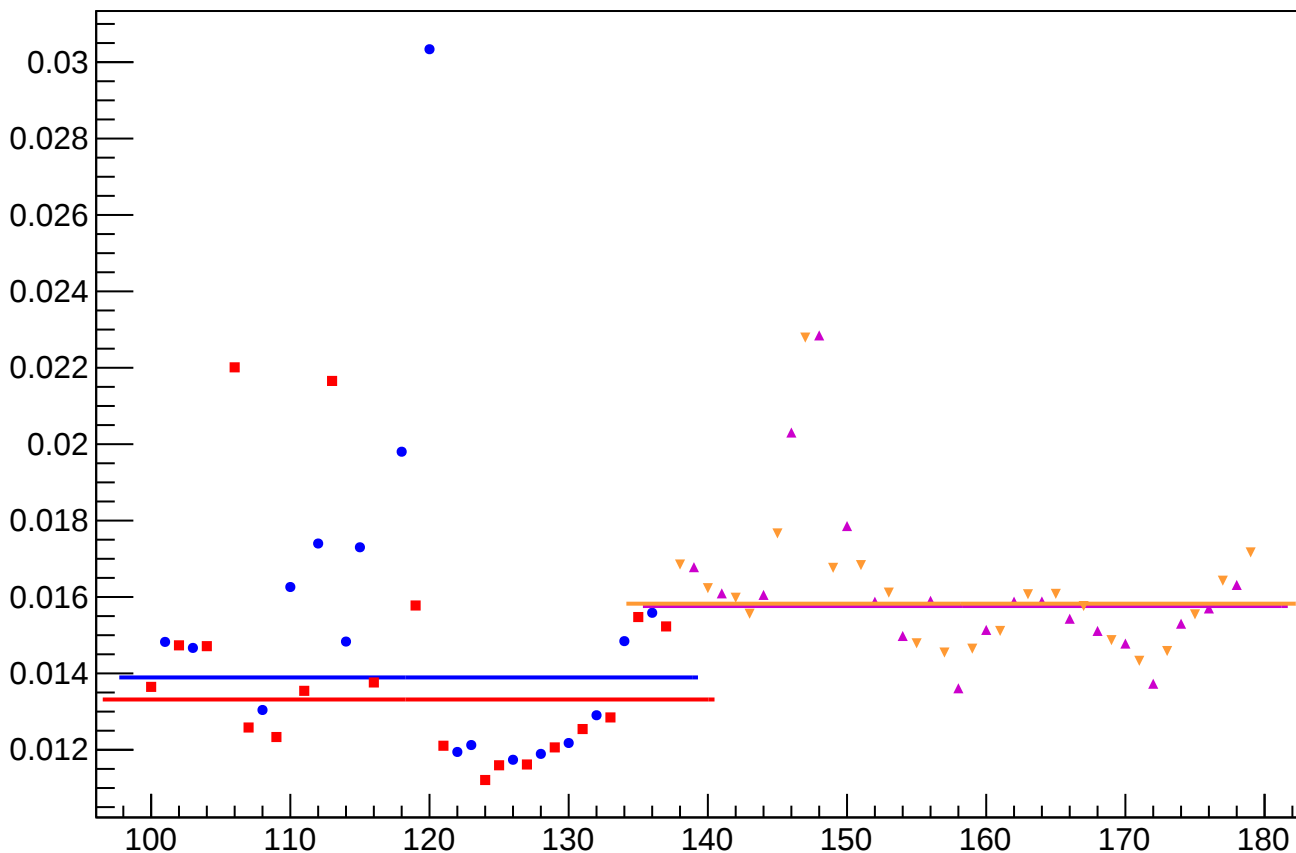
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.170+/-0.000 χ^2/NDF : 276074251631.0/36

Out: -2.104+/-0.000 χ^2/NDF : 272559235929.9/40

All: -2.135+/-0.000 χ^2/NDF : 548838692126.0

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 :244127.5/21

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 : 574227.2/41

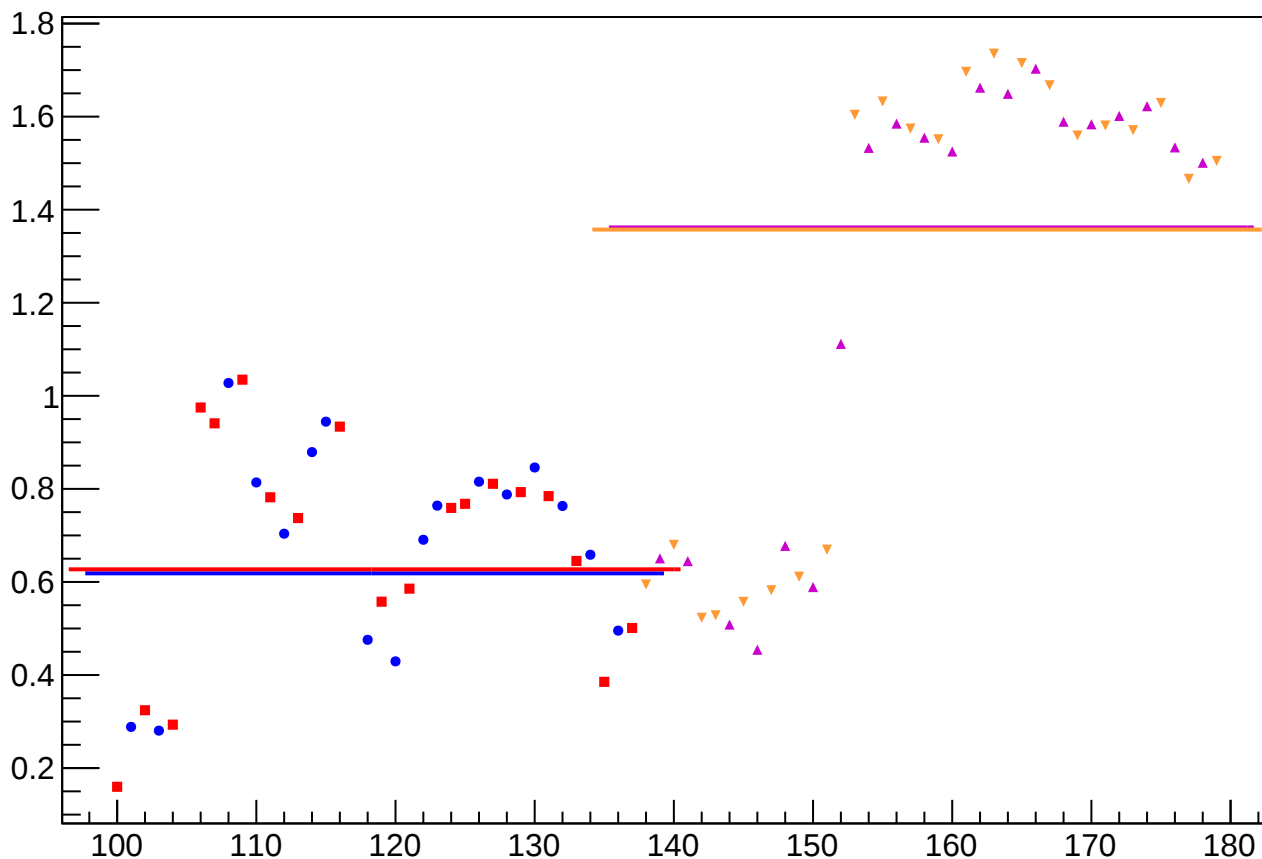
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :871613.6/36

Out: 0.015+/-0.000 χ^2/NDF :826598.0/40

All: 0.015+/-0.000 χ^2/NDF : 1702606.2/77

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.357+/-0.000 χ^2/NDF : 72622018683.5/21

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: 1.360+/-0.000 χ^2/NDF : 135417118146.8/41

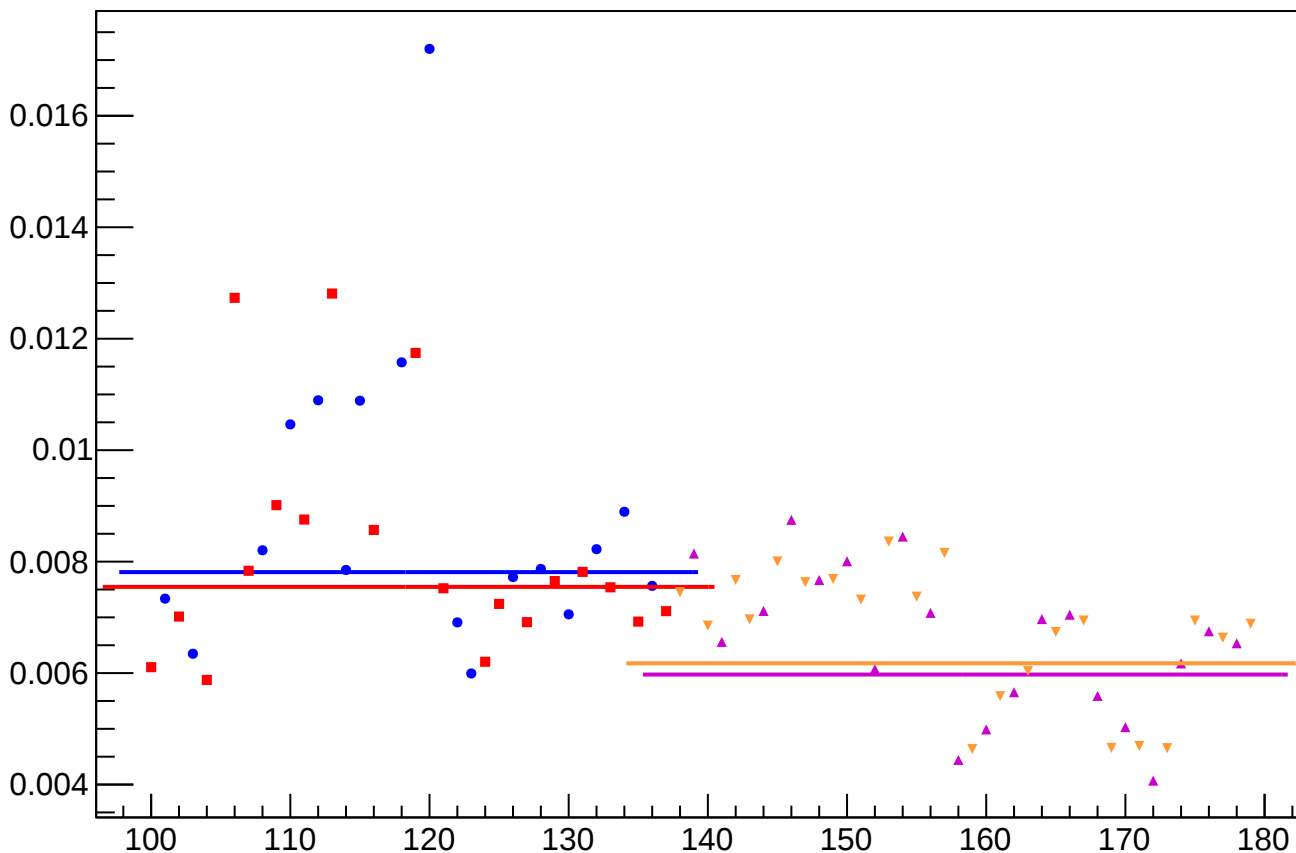
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.216+/-0.000 χ^2/NDF : 110582148780.3/36

Out: 1.198+/-0.000 χ^2/NDF : 124298567005.8/40

All: 1.207+/-0.000 χ^2/NDF : 234960968557.6

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.006+/-0.000 χ^2/NDF :1268525.2/21

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 : 2614200.0/41

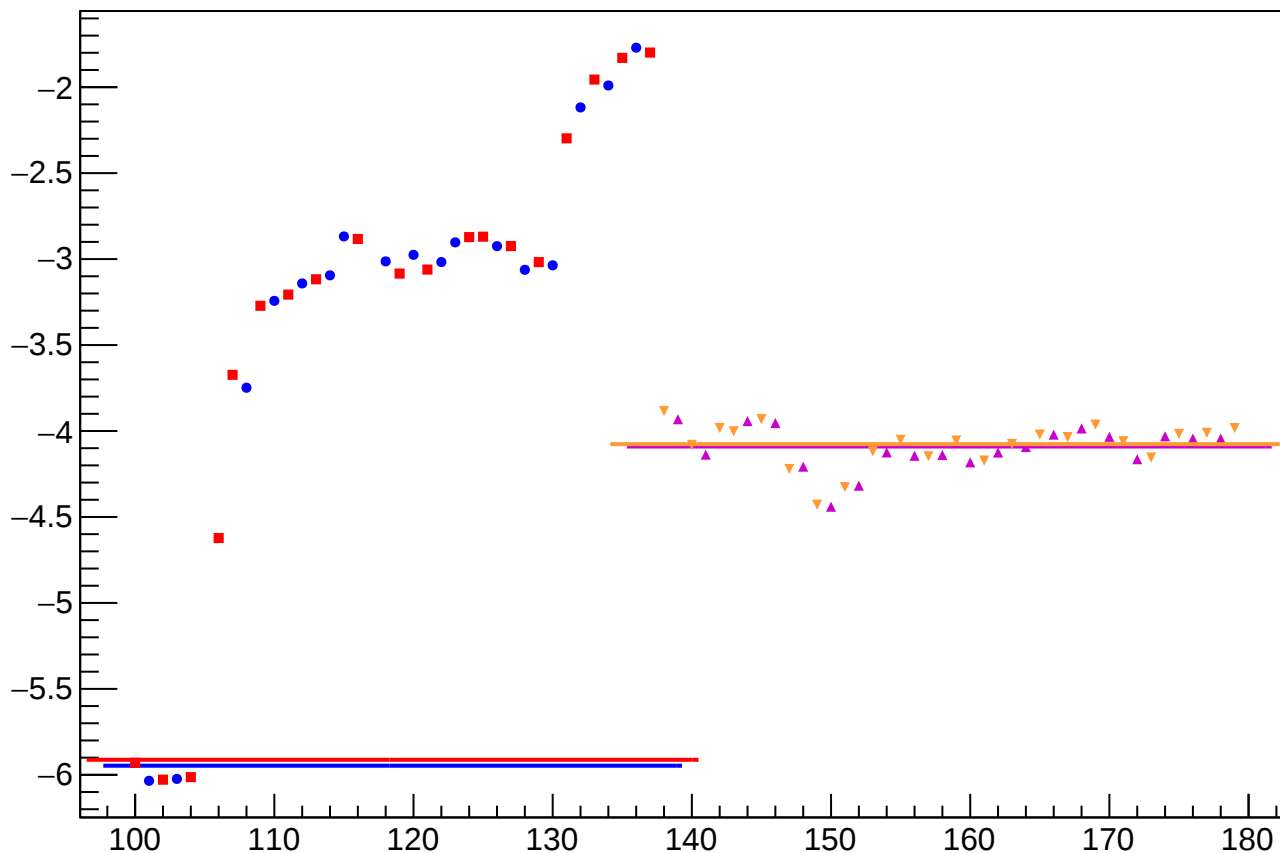
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2314609.4/36

Out: 0.006+/-0.000 χ^2/NDF :2030112.6/40

All: 0.006+/-0.000 χ^2/NDF : 4354489.9/77

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947 ± 0.000 $\chi^2/\text{NDF}: 13165963559.5/16$

Left Out: -4.076 ± 0.000 $\chi^2/\text{NDF}: 36157920.0/21$

Right Out: -5.912 ± 0.000 $\chi^2/\text{NDF}: 14619971495.0/18$

Left In: -4.090 ± 0.000 $\chi^2/\text{NDF}: 33590092.1/19$

Left: -4.085 ± 0.000 $\chi^2/\text{NDF}: 70024836.8/41$

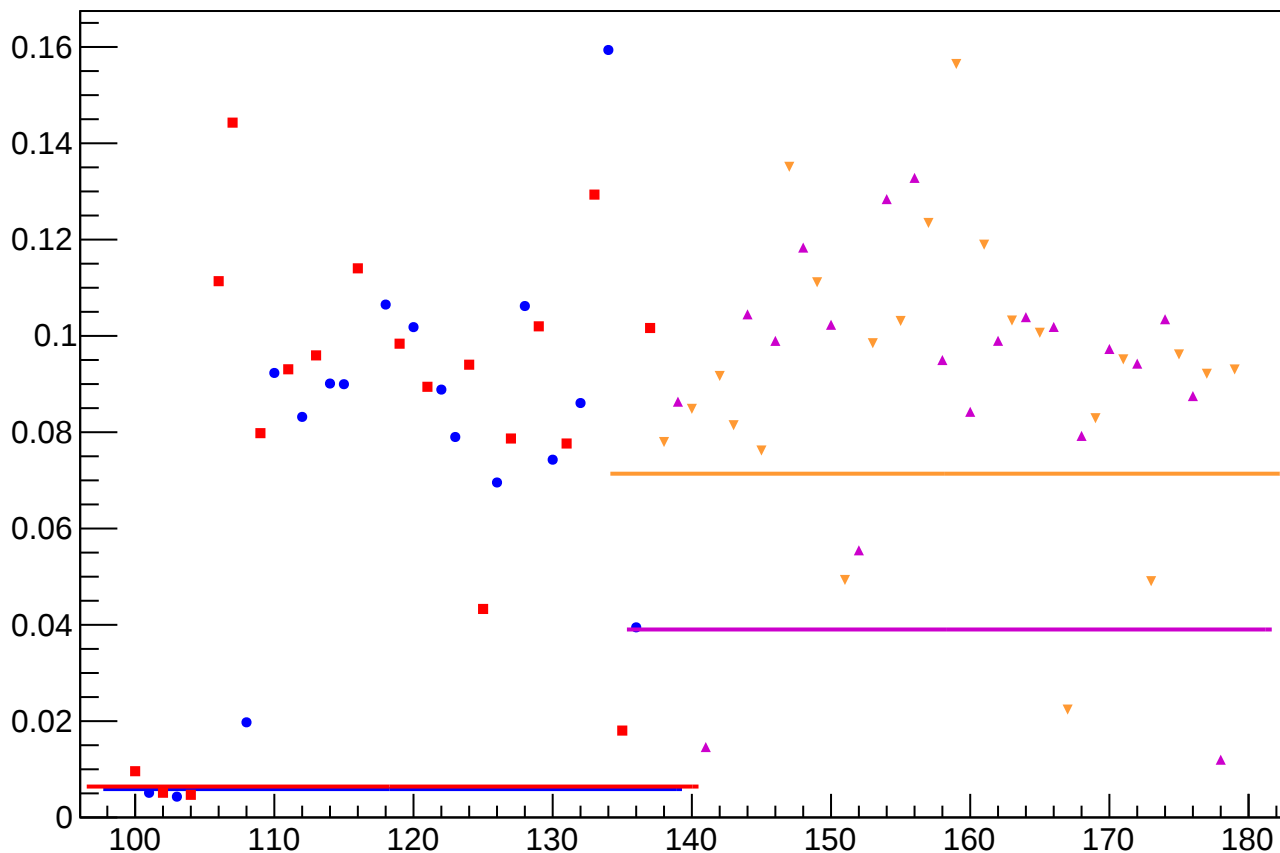
Right: -5.932 ± 0.000 $\chi^2/\text{NDF}: 27811040884.1/35$

In: -5.801 ± 0.000 $\chi^2/\text{NDF}: 26000032549.2/36$

Out: -5.810 ± 0.000 $\chi^2/\text{NDF}: 21812345442.2/40$

All: -5.805 ± 0.000 $\chi^2/\text{NDF}: 47814172154.0/76$

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.071+/-0.000 χ^2/NDF : 4999262.1/21

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.039+/-0.000 χ^2/NDF : 12113635.4/19

Left: 0.051+/-0.000 χ^2/NDF : 20133603.4/41

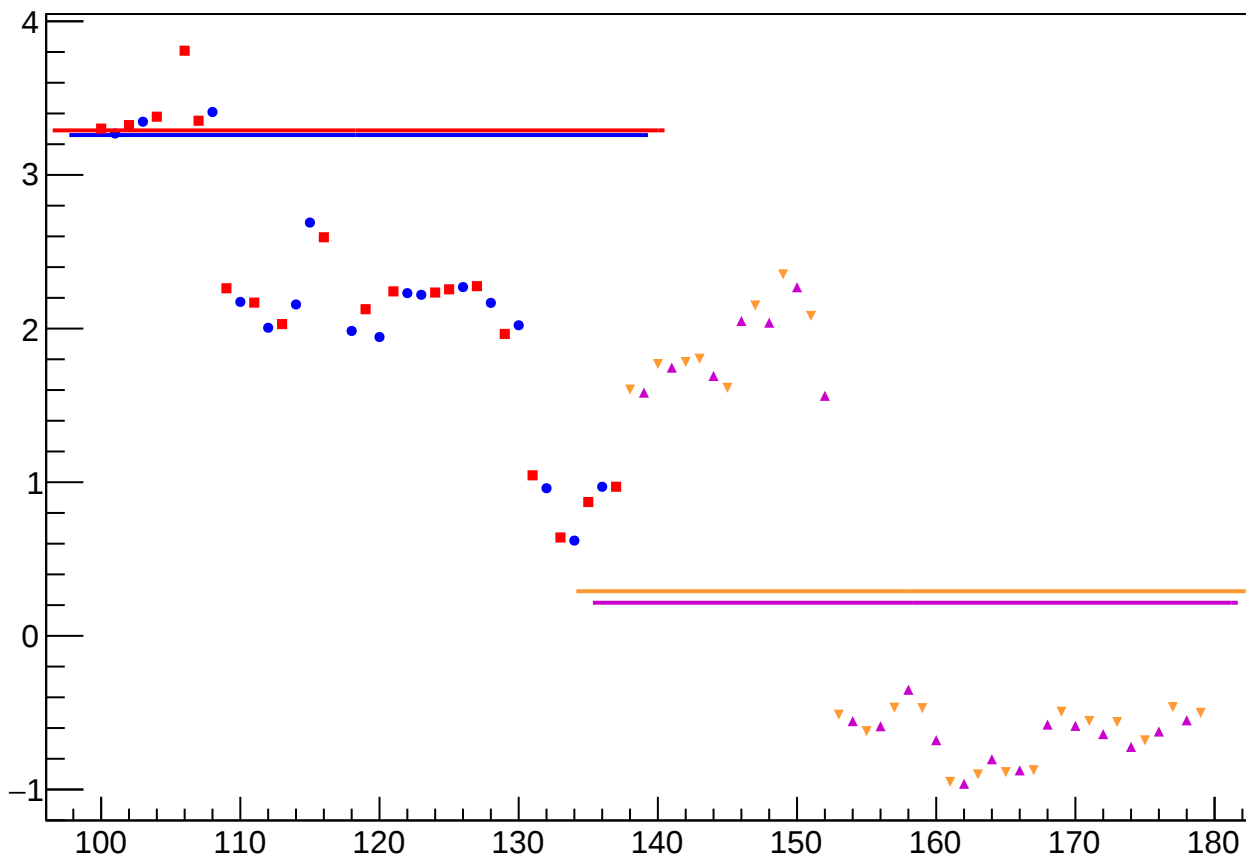
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 28205703.2/36

Out: 0.010+/-0.000 χ^2/NDF : 31419804.1/40

All: 0.009+/-0.000 χ^2/NDF : 59733092.6/77

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259+/-0.000 χ^2/NDF : 2921931976.8/16

Left Out: 0.290+/-0.000 χ^2/NDF : 3044106947.0/21

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: 0.249+/-0.000 χ^2/NDF : 6109463174.7/41

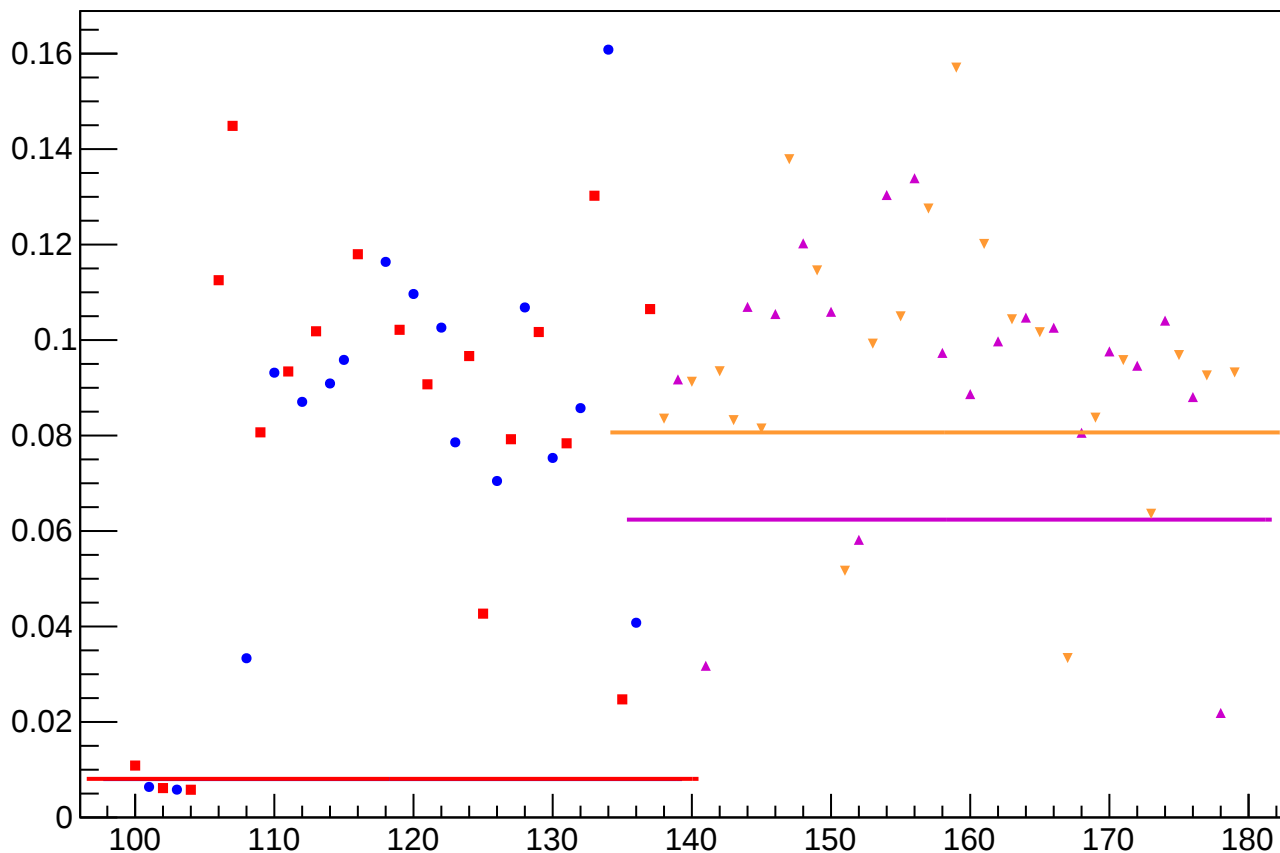
Right: 3.274+/-0.000 χ^2/NDF : 6196998308.4/35

In: 3.029+/-0.000 χ^2/NDF : 26181839040.7/36

Out: 3.086+/-0.000 χ^2/NDF : 22497049035.3/40

All: 3.056+/-0.000 χ^2/NDF : 48727664790.2/77

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.081+/-0.000 χ^2/NDF : 3168281.3/21

Right Out: 0.008+/-0.000 χ^2/NDF : 8309426.5/18

Left In: 0.062+/-0.000 χ^2/NDF : 6589296.7/19

Left: 0.071+/-0.000 χ^2/NDF : 10465910.0/41

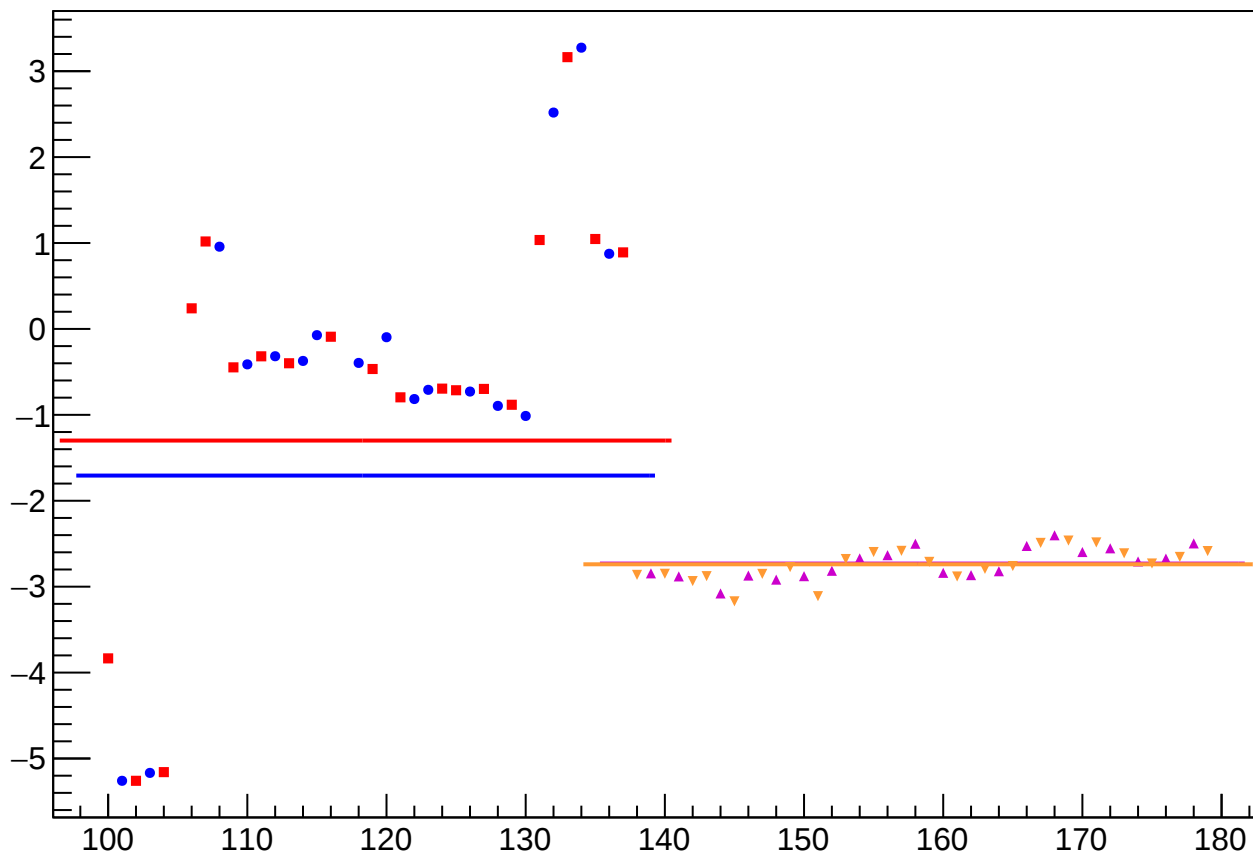
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.012+/-0.000 χ^2/NDF : 27210315.1/36

Out: 0.013+/-0.000 χ^2/NDF : 30430444.2/40

All: 0.013+/-0.000 χ^2/NDF : 57662624.4/77

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.740+/-0.000 χ^2/NDF : 9075166864.6/21

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: -2.735+/-0.000 χ^2/NDF : 16942906226.6/41

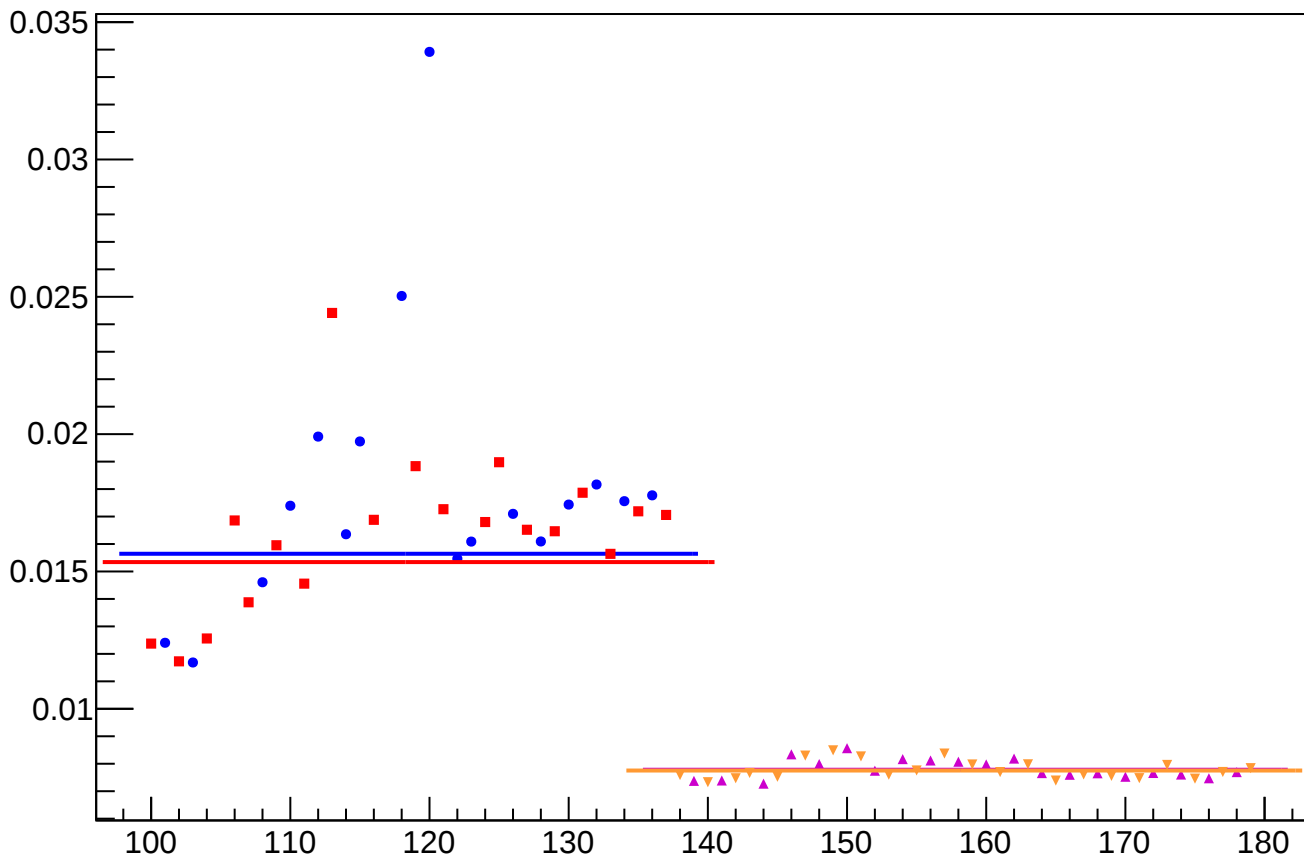
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.644+/-0.000 χ^2/NDF : 195956195233.2/36

Out: -2.609+/-0.000 χ^2/NDF : 236799693901.6/40

All: -2.626+/-0.000 χ^2/NDF : 432919057563.7

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.008+/-0.000 χ^2/NDF : 53141.4/21

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 : 111481.9/41

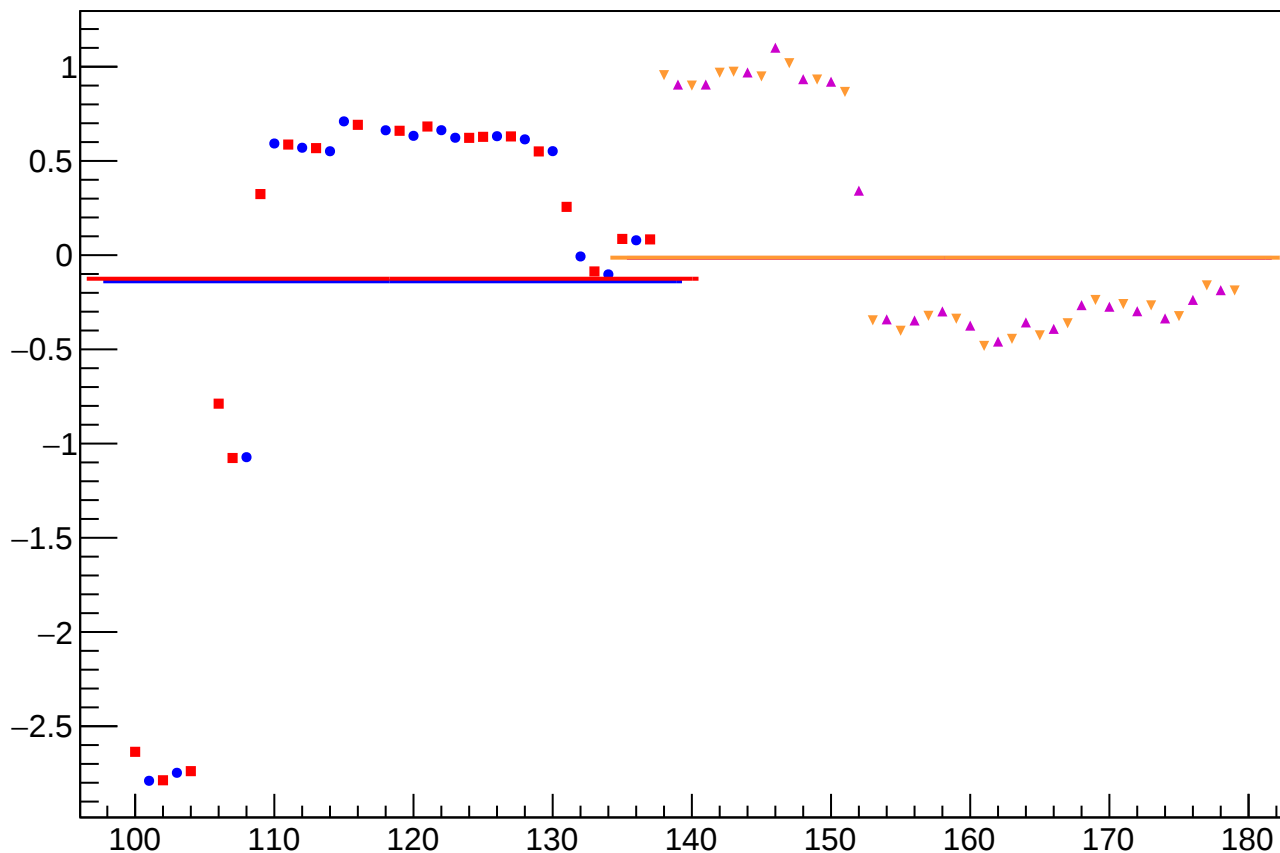
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.008+/-0.000 χ^2/NDF : 3226533.1/36

Out: 0.008+/-0.000 χ^2/NDF : 3165980.6/40

All: 0.008+/-0.000 χ^2/NDF : 6392570.8/77

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000

χ^2/NDF : 715049983856.2/16

Left: -0.014+/-0.000

χ^2/NDF : 244740836325.6/41

Left Out: -0.013+/-0.000

χ^2/NDF : 132240030520.9/21

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: -0.076+/-0.000

χ^2/NDF : 896816115129.8/40

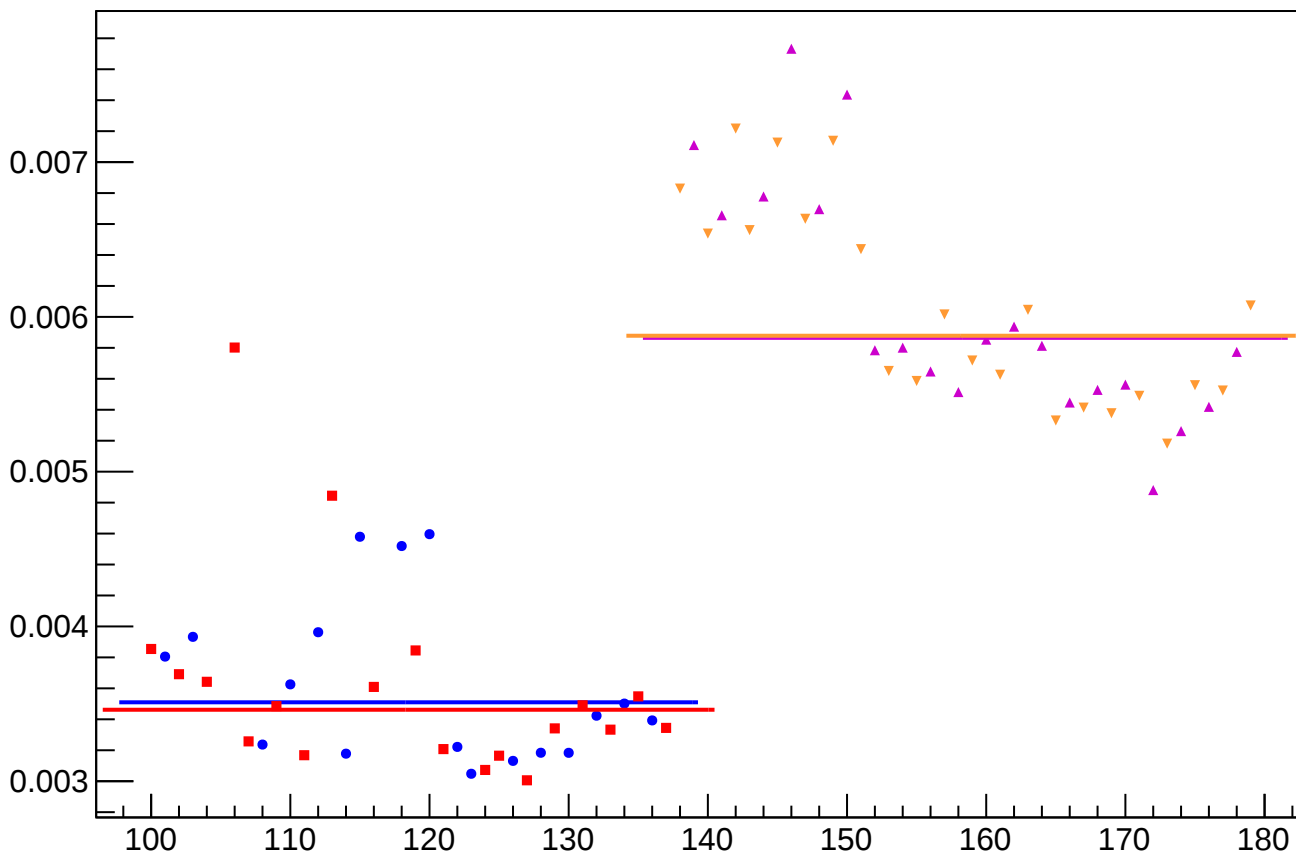
Left In: -0.015+/-0.000

χ^2/NDF : 112500288844.2/19

All: -0.080+/-0.000

χ^2/NDF : 1727904769992

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 171337.9/16

Left Out: 0.006 $\pm$ 0.000 χ^2/NDF : 282994.8/21

Right Out: 0.003 $\pm$ 0.000 χ^2/NDF : 215974.1/18

Left In: 0.006 $\pm$ 0.000 χ^2/NDF : 362815.6/19

Left: 0.006 $\pm$ 0.000 χ^2/NDF : 645890.1/41

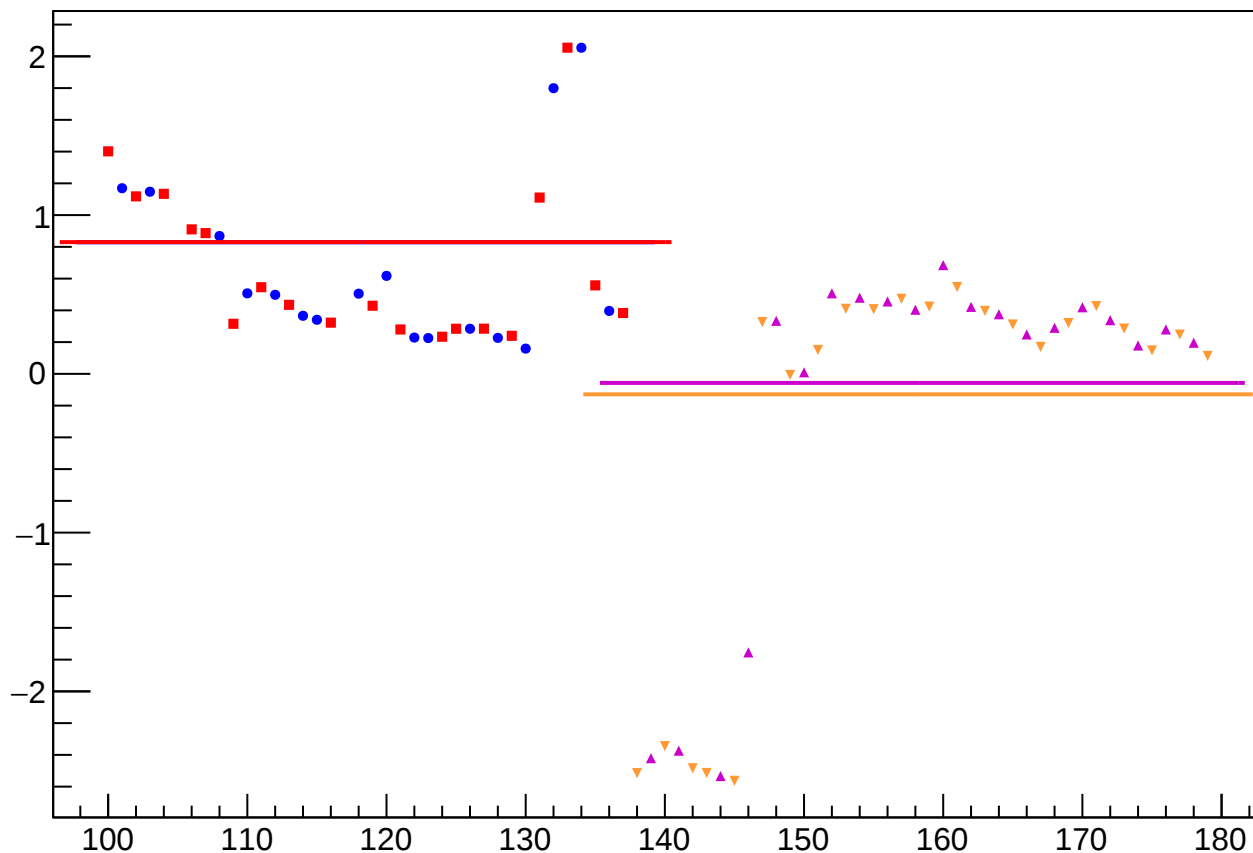
Right: 0.003 $\pm$ 0.000 χ^2/NDF : 388552.5/35

In: 0.005 $\pm$ 0.000 χ^2/NDF : 3072184.3/36

Out: 0.005 $\pm$ 0.000 χ^2/NDF : 3375026.2/40

All: 0.005 $\pm$ 0.000 χ^2/NDF : 6448615.6/77

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.129+/-0.000 χ^2/NDF : 483641916353.1/21

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: -0.094+/-0.000 χ^2/NDF : 896133454661.6/41

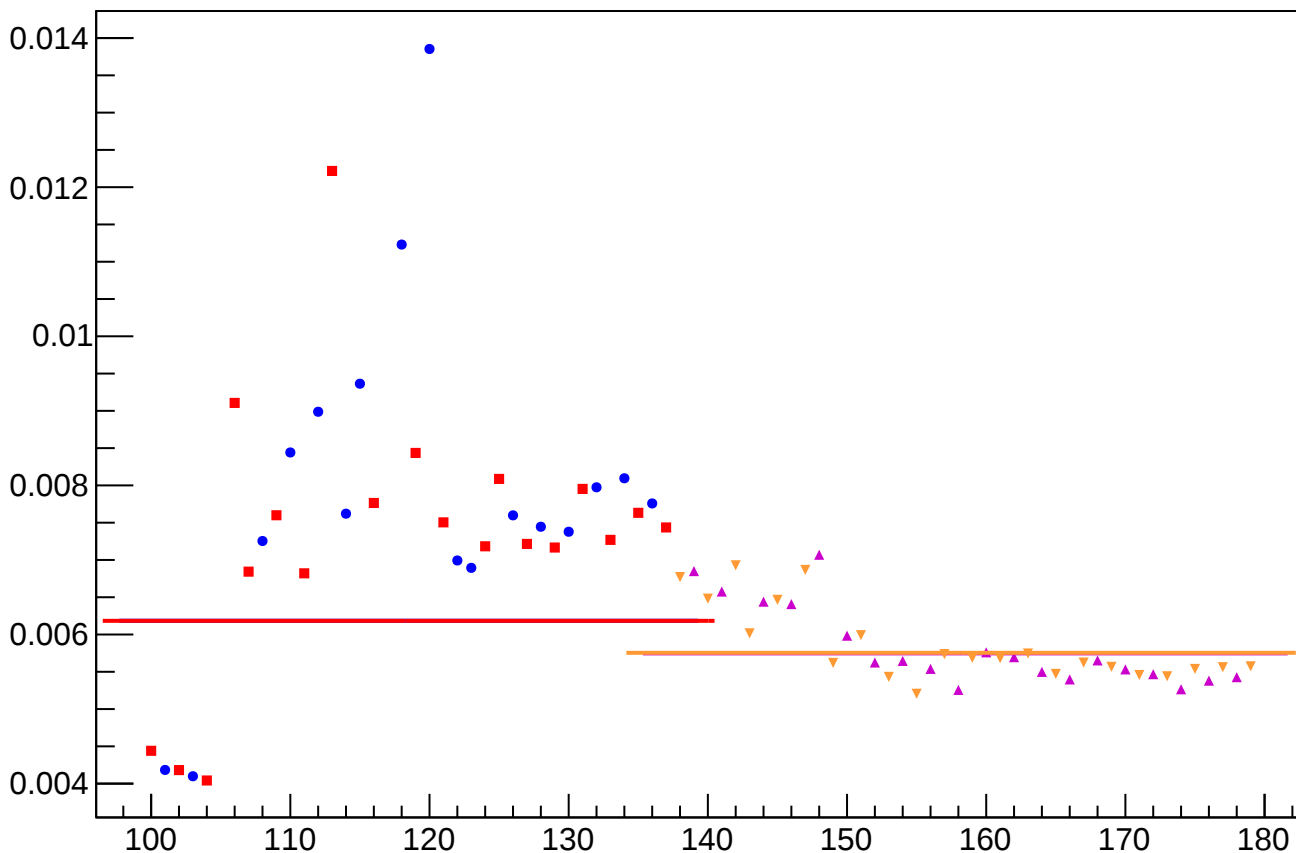
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.156+/-0.000 χ^2/NDF : 525885252834.5/36

Out: 0.106+/-0.000 χ^2/NDF : 622374061903.7/40

All: 0.130+/-0.000 χ^2/NDF : 1149002084860.0

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1228962.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :172932.3/21

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 : 373938.0/41

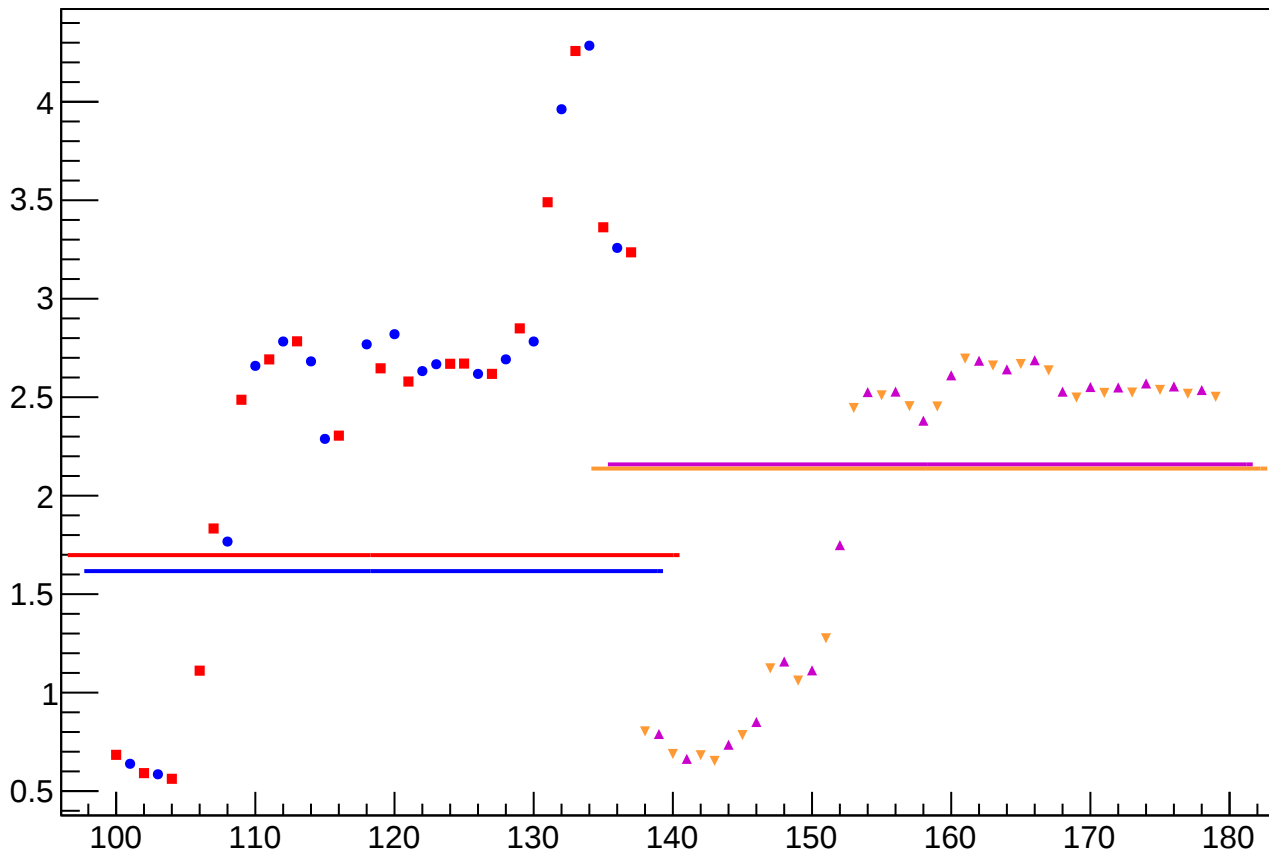
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1470416.8/36

Out: 0.006+/-0.000 χ^2/NDF :1241967.2/40

All: 0.006+/-0.000 χ^2/NDF : 2712418.6/77

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617 $\pm$ 0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.138 $\pm$ 0.000 χ^2/NDF : 281318261216.3/21

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: 2.148 $\pm$ 0.000 χ^2/NDF : 527158207284.3/41

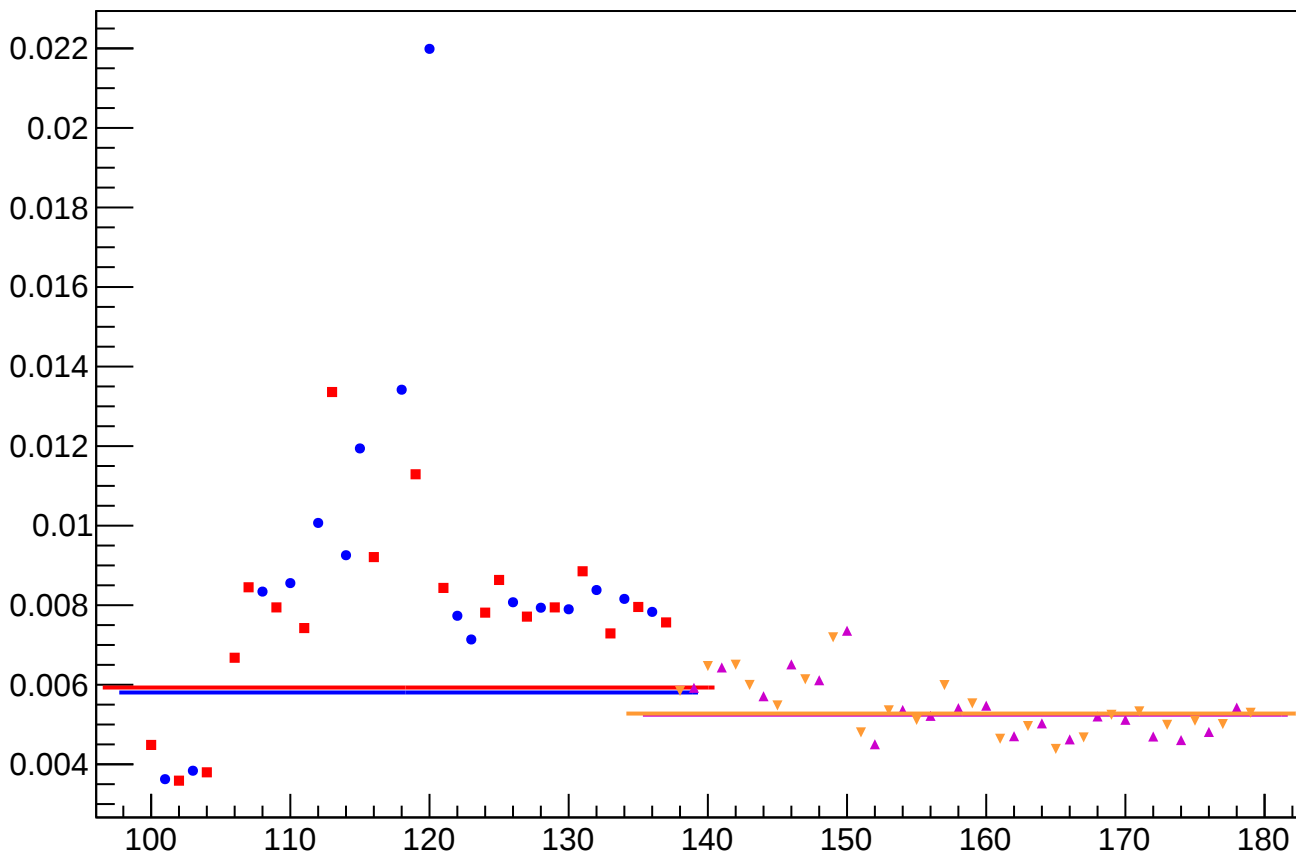
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 430781224378.3/35

In: 2.040 $\pm$ 0.000 χ^2/NDF : 481407817160.2/36

Out: 2.040 $\pm$ 0.000 χ^2/NDF : 531634812743.4/40

All: 2.040 $\pm$ 0.000 χ^2/NDF : 1013042779043.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF :374523.9/21

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 : 792894.1/41

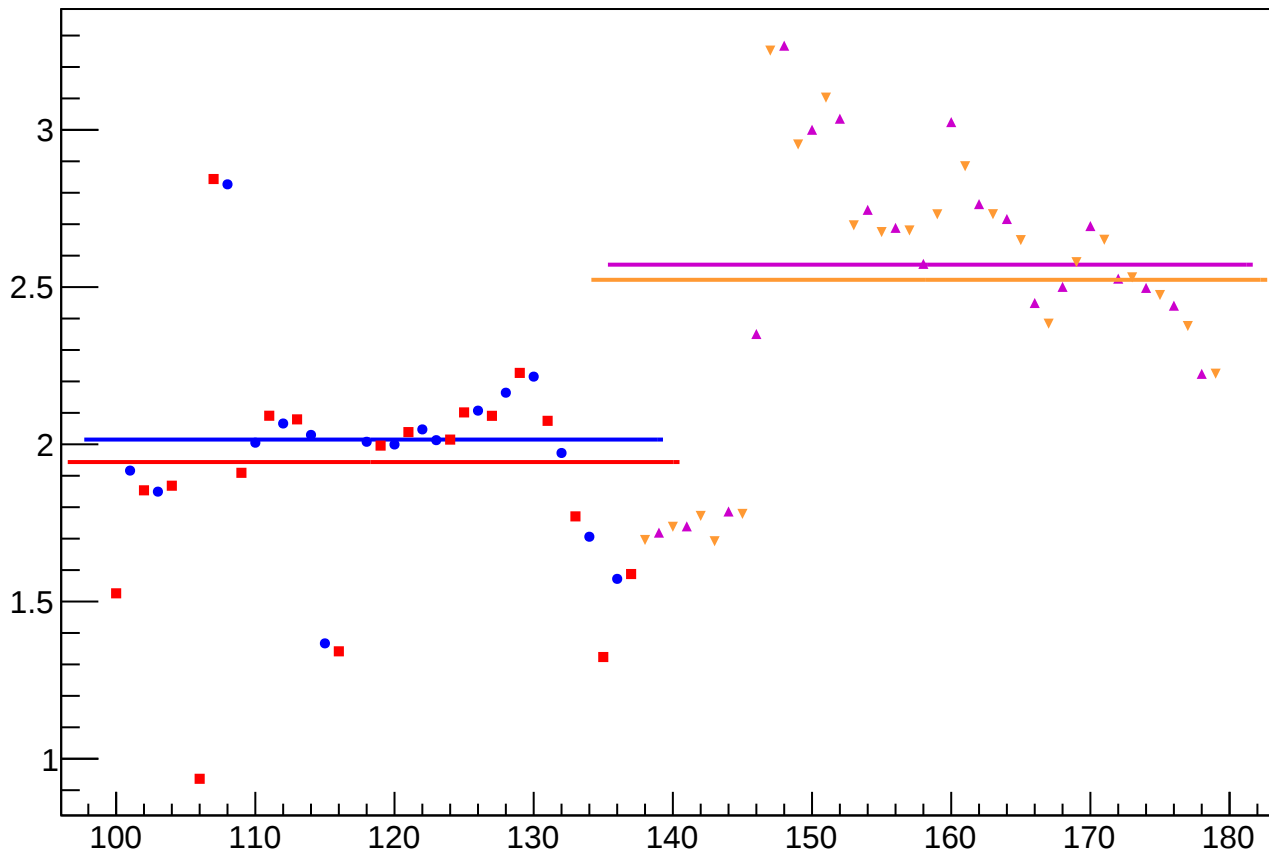
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF :2405666.5/36

Out: 0.005+/-0.000 χ^2/NDF :2161727.9/40

All: 0.005+/-0.000 χ^2/NDF : 4569135.3/77

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015+/-0.000 χ^2/NDF : 12228403202.6/16

Left Out: 2.523+/-0.000 χ^2/NDF : 50883040686.1/21

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: 2.547+/-0.000 χ^2/NDF : 95221748049.8/41

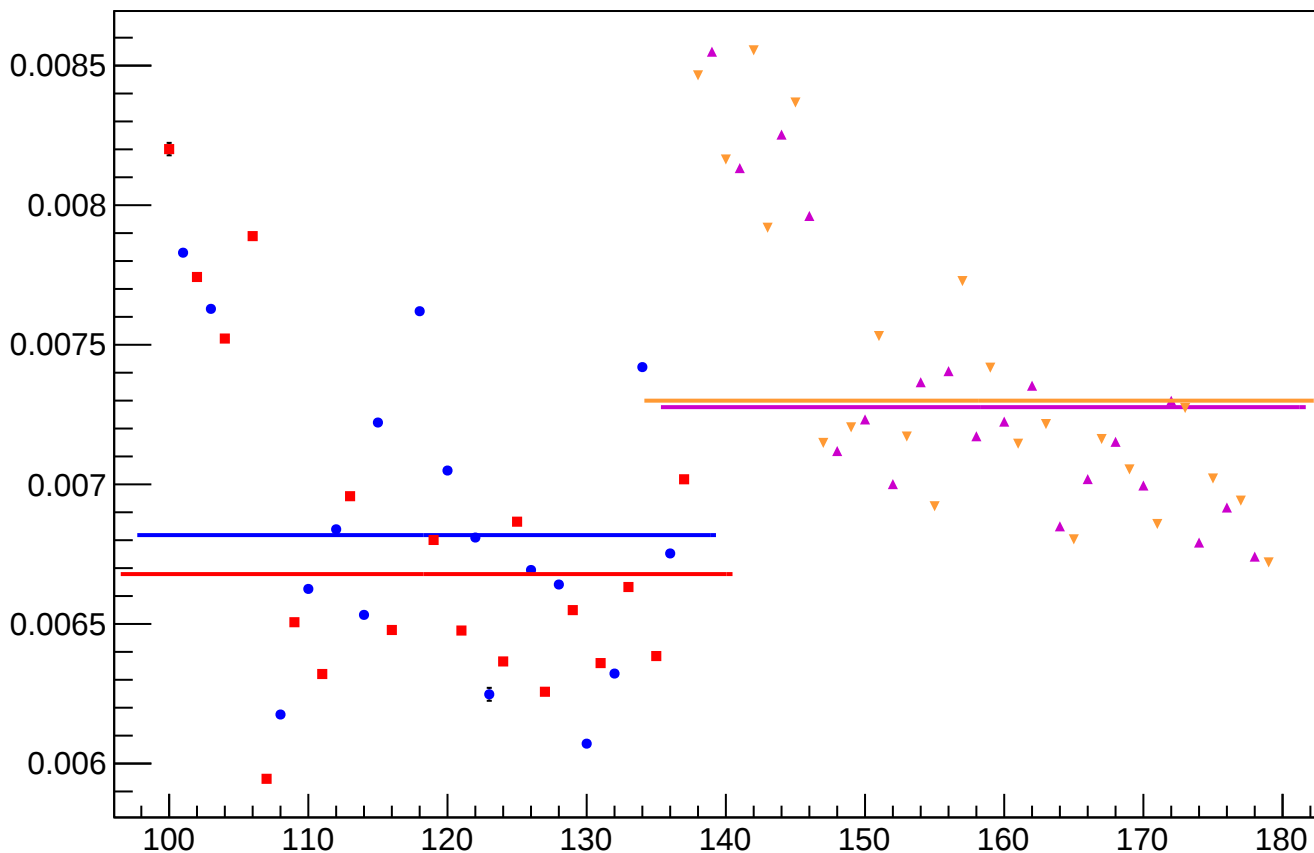
Right: 1.977+/-0.000 χ^2/NDF : 34023853436.2/35

In: 2.388+/-0.000 χ^2/NDF : 84638628607.1/36

Out: 2.326+/-0.000 χ^2/NDF : 106046463072.7/40

All: 2.356+/-0.000 χ^2/NDF : 191519057102.8

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 75813.9/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:136878.4/21

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 75718.4/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:115569.5/19

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 252603.2/41

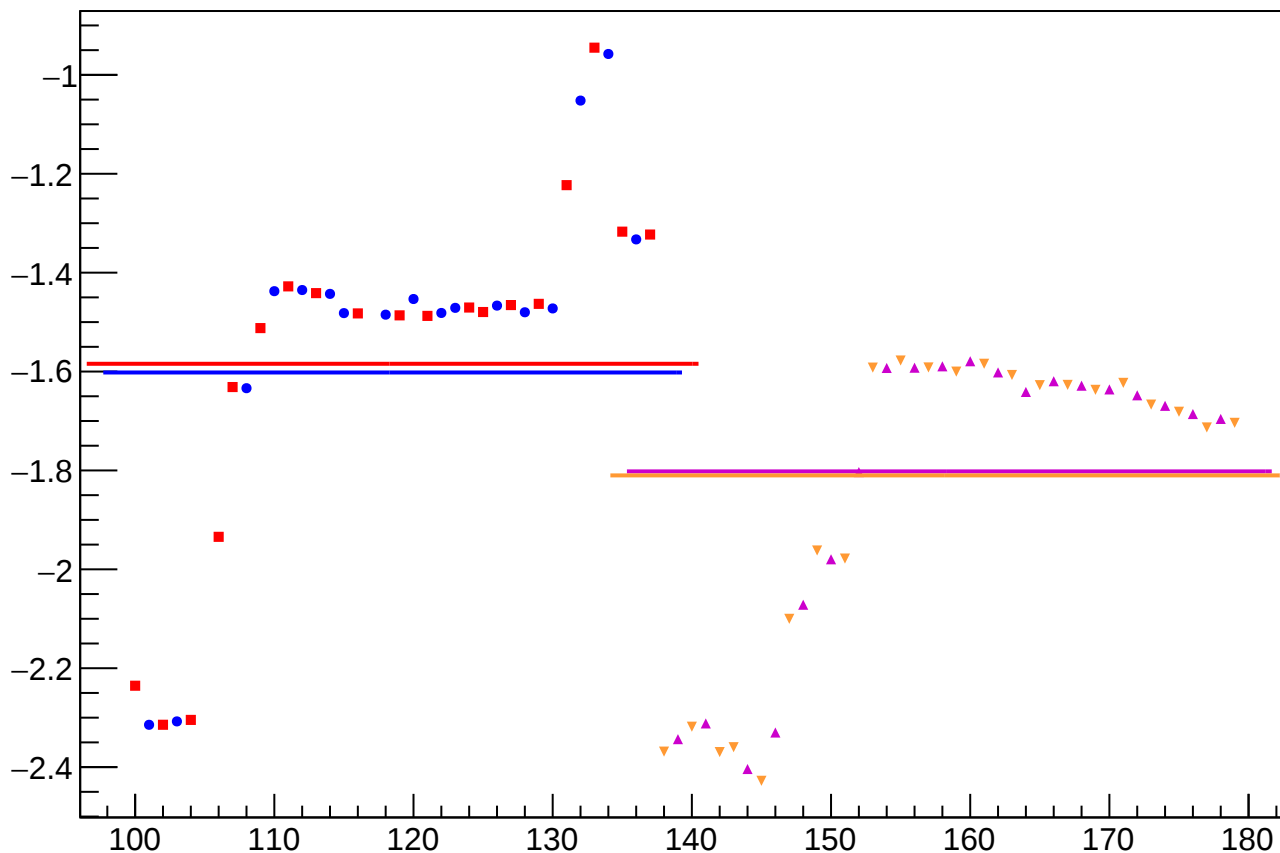
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 154341.2/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:229953.2/36

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:290104.7/40

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 520652.9/77

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.810+/-0.000 χ^2/NDF : 177395794295.1/21

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: -1.806+/-0.000 χ^2/NDF : 334703563502.7/41

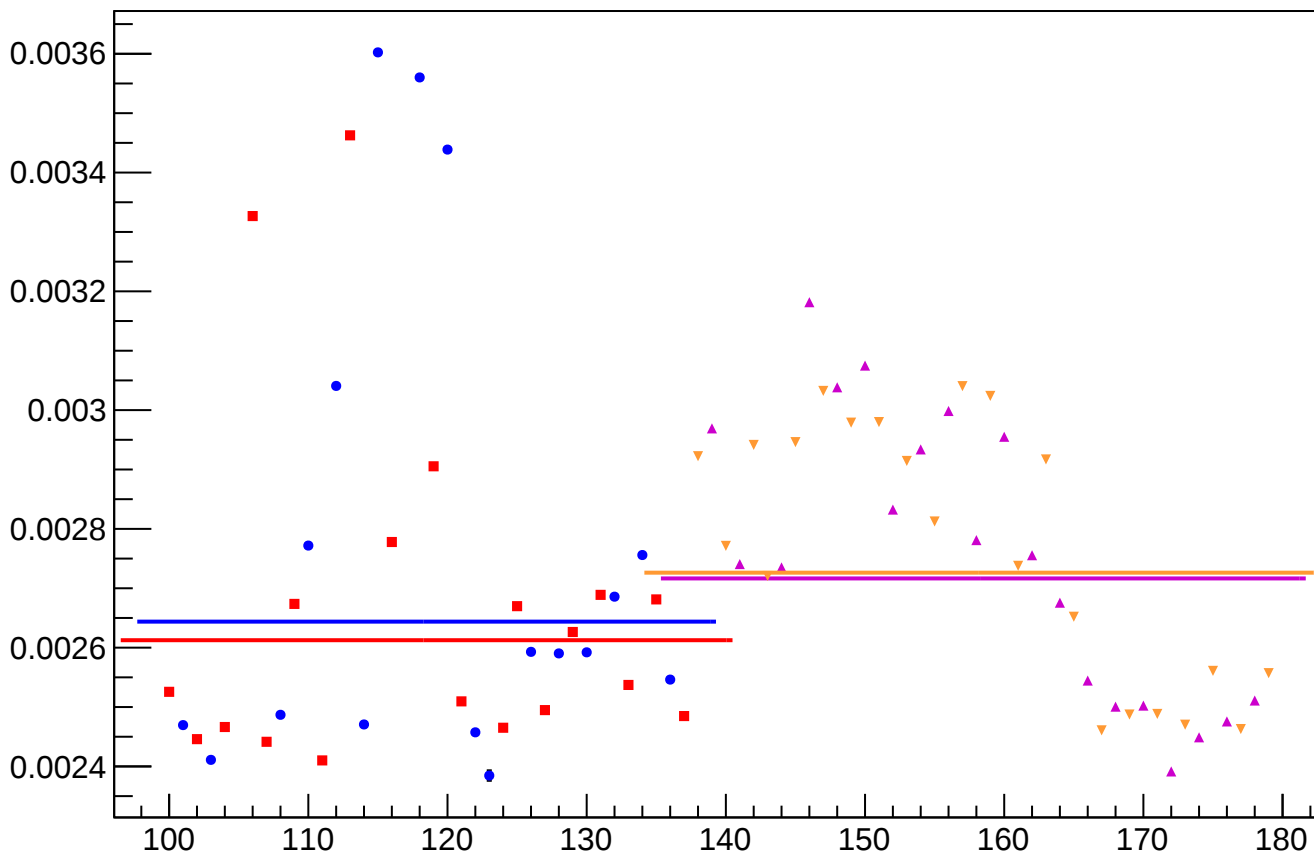
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.740+/-0.000 χ^2/NDF : 322241745313.3/36

Out: -1.739+/-0.000 χ^2/NDF : 355060581023.2/40

All: -1.739+/-0.000 χ^2/NDF : 677304515077.5

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 :192809.2/21

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 : 403795.0/41

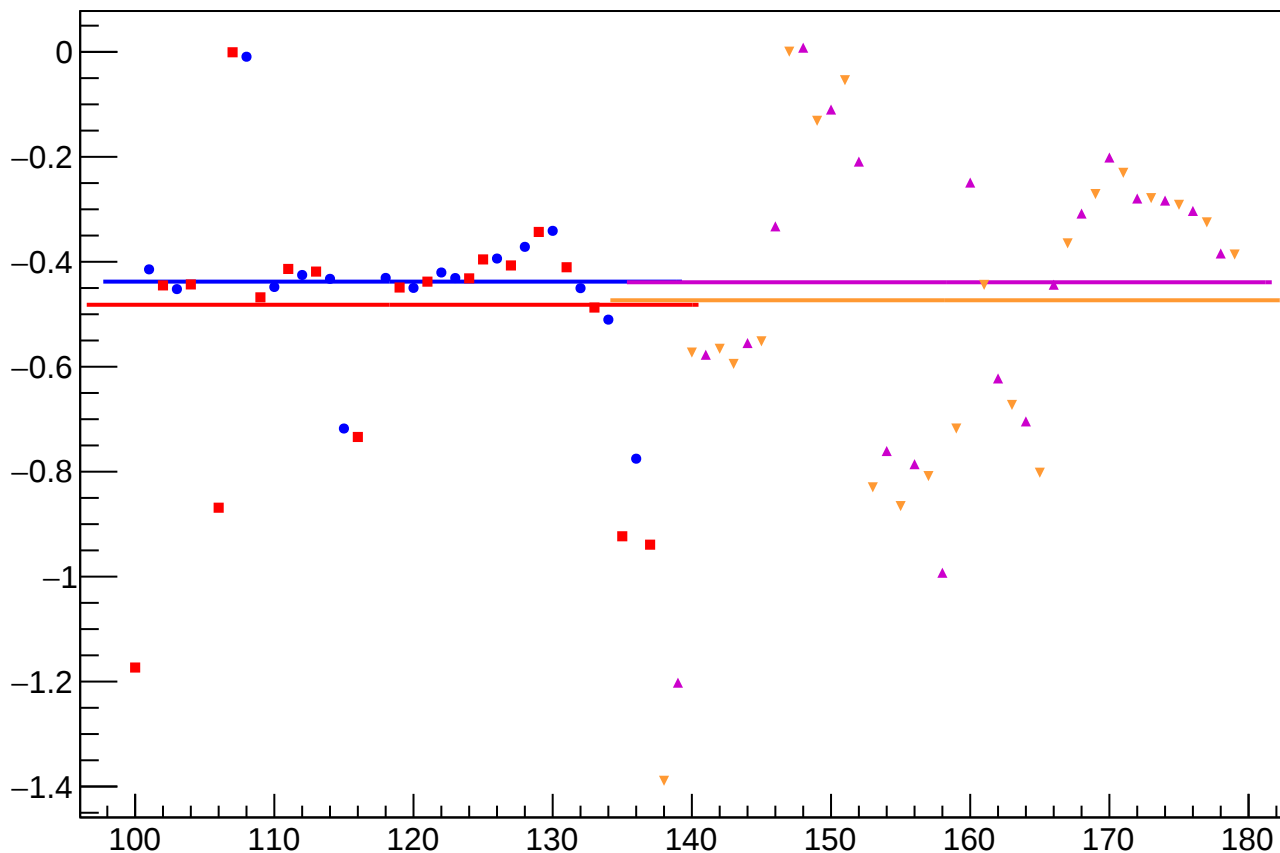
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :368731.5/36

Out: 0.003+/-0.000 χ^2/NDF :315411.2/40

All: 0.003+/-0.000 χ^2/NDF : 684183.1/77

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 ± 0.000 $\chi^2/\text{NDF}: 1462454117.6/16$

Left Out: -0.473 ± 0.000 $\chi^2/\text{NDF}: 9654388038.9/21$

Right Out: -0.482 ± 0.000 $\chi^2/\text{NDF}: 2694625740.7/18$

Left In: -0.439 ± 0.000 $\chi^2/\text{NDF}: 8281185415.0/19$

Left: -0.457 ± 0.000 $\chi^2/\text{NDF}: 17995980641.8/41$

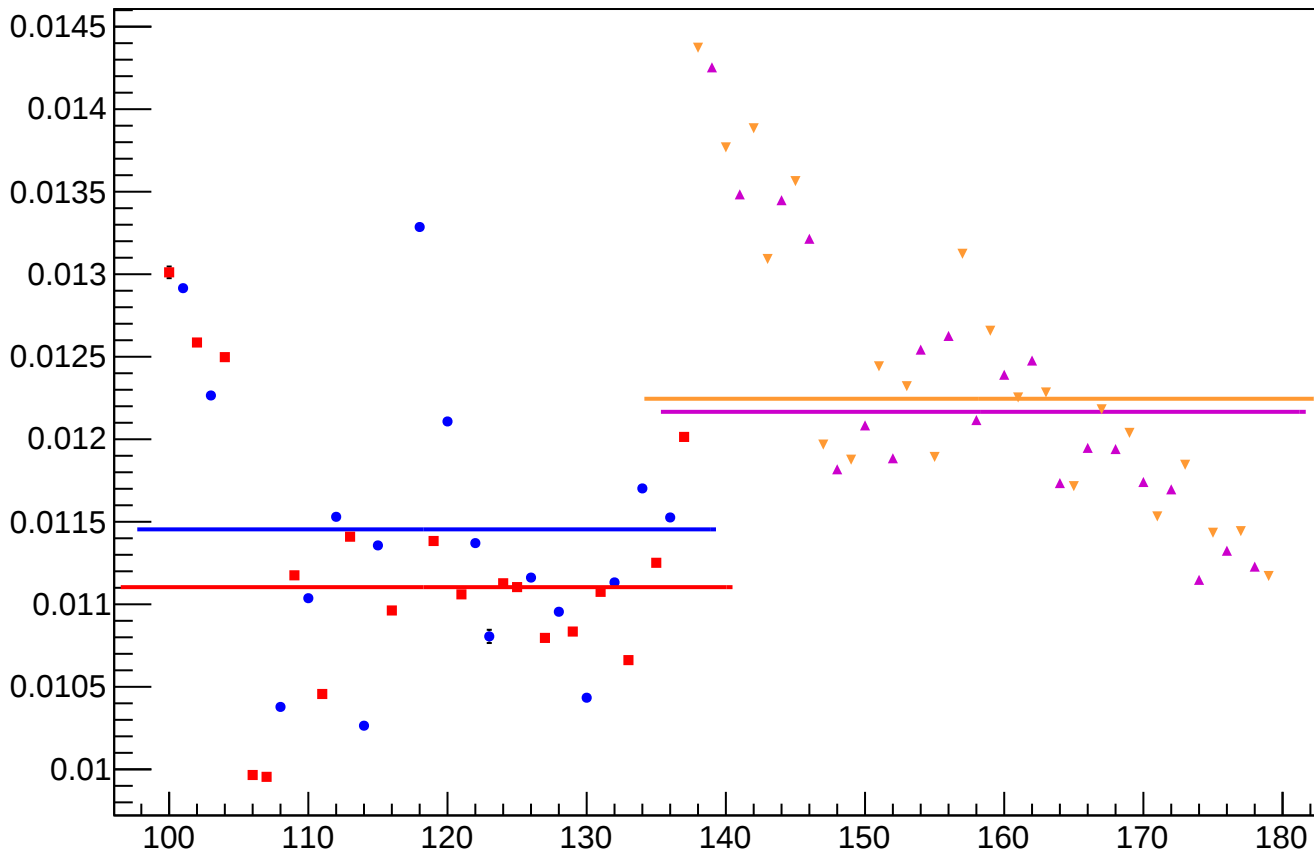
Right: -0.461 ± 0.000 $\chi^2/\text{NDF}: 4208237576.2/35$

In: -0.439 ± 0.000 $\chi^2/\text{NDF}: 9743689314.9/36$

Out: -0.476 ± 0.000 $\chi^2/\text{NDF}: 12351711560.4/40$

All: -0.458 ± 0.000 $\chi^2/\text{NDF}: 22205721923.2/100$

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 :129783.0/21

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 : 242669.1/41

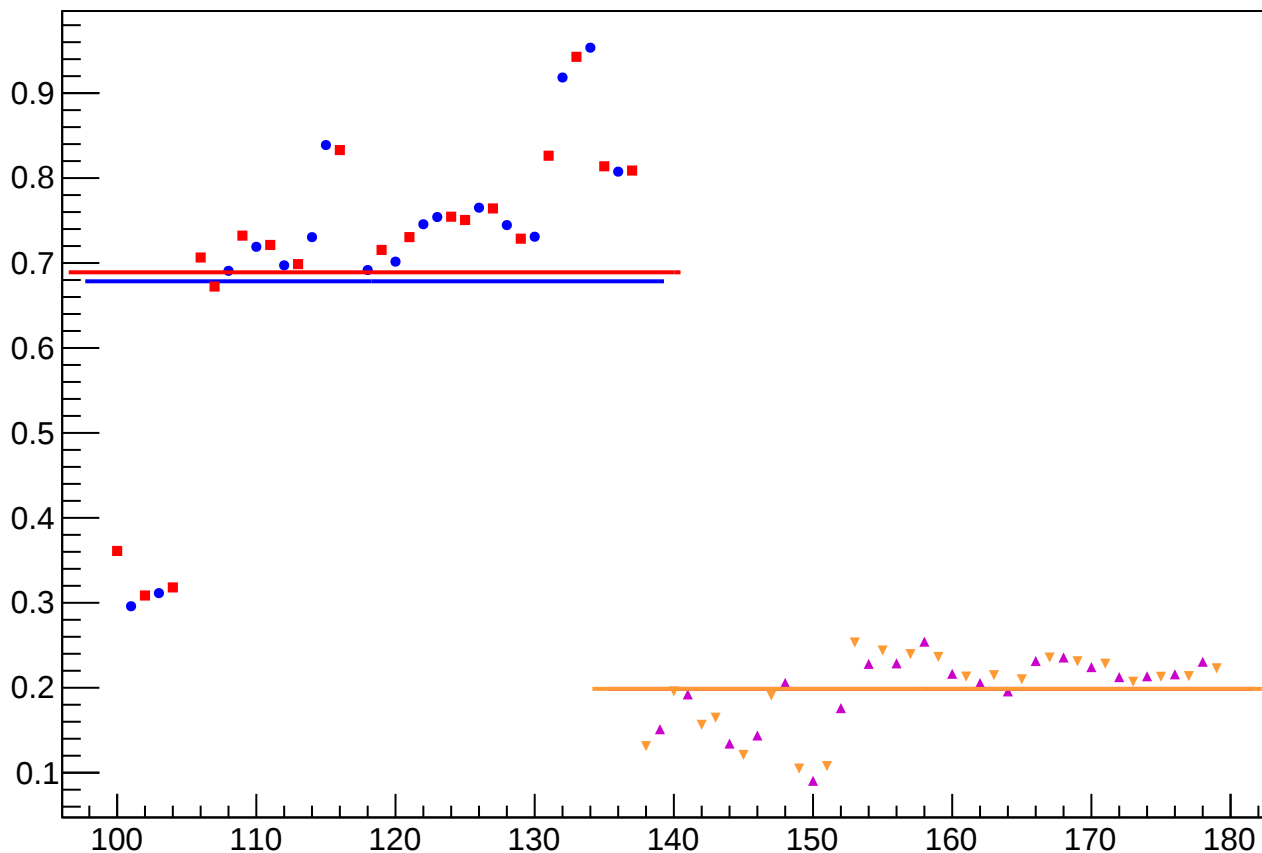
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF :210423.3/36

Out: 0.012+/-0.000 χ^2/NDF :281478.9/40

All: 0.012+/-0.000 χ^2/NDF : 492951.3/77

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.199+/-0.000 χ^2/NDF : 6766762594.7/21

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: 0.199+/-0.000 χ^2/NDF : 12276207408.6/41

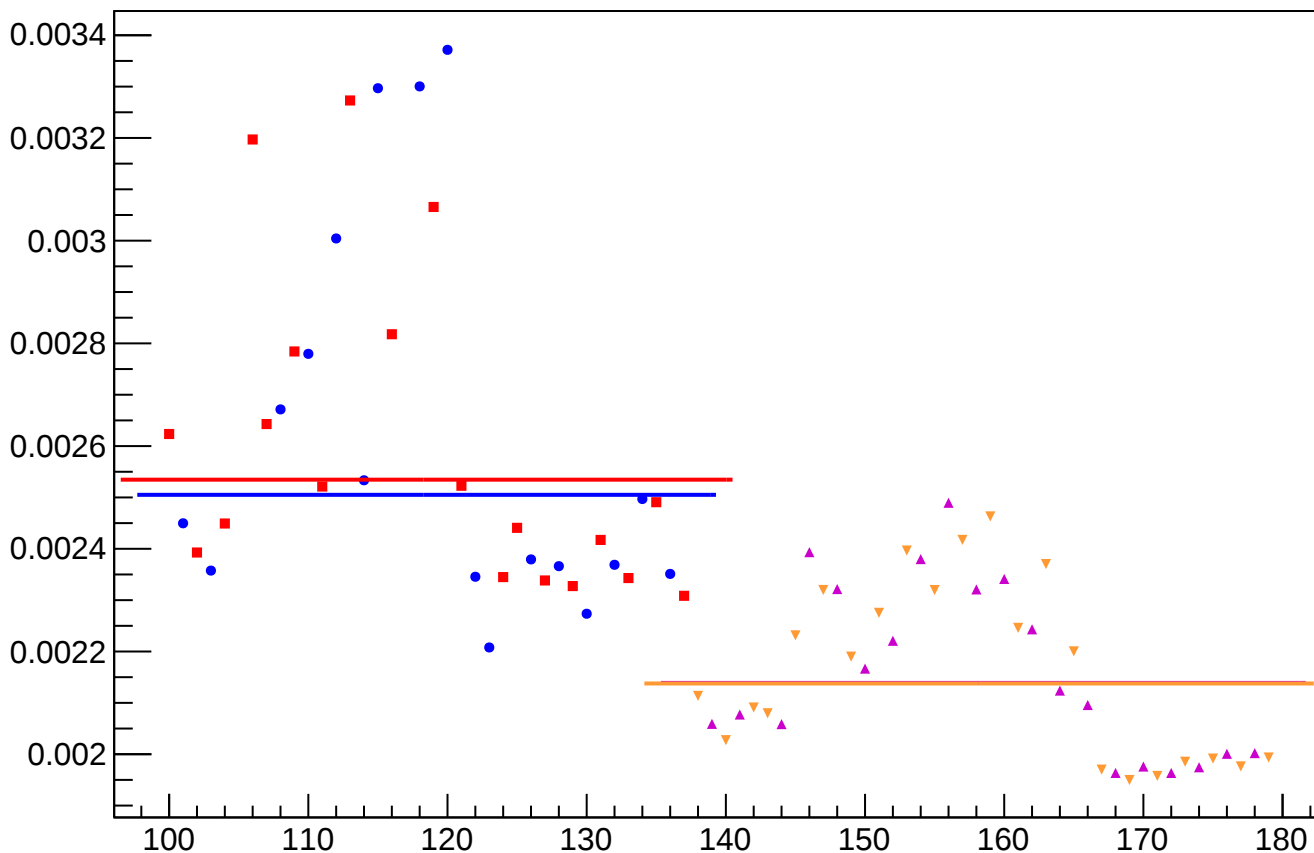
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.311+/-0.000 χ^2/NDF : 223145962590.9/36

Out: 0.310+/-0.000 χ^2/NDF : 236270048422.0/40

All: 0.310+/-0.000 χ^2/NDF : 459419666106.4

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 175524.0/16

Left Out: 0.002+/-0.000 χ^2/NDF :196113.8/21

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 : 365843.7/41

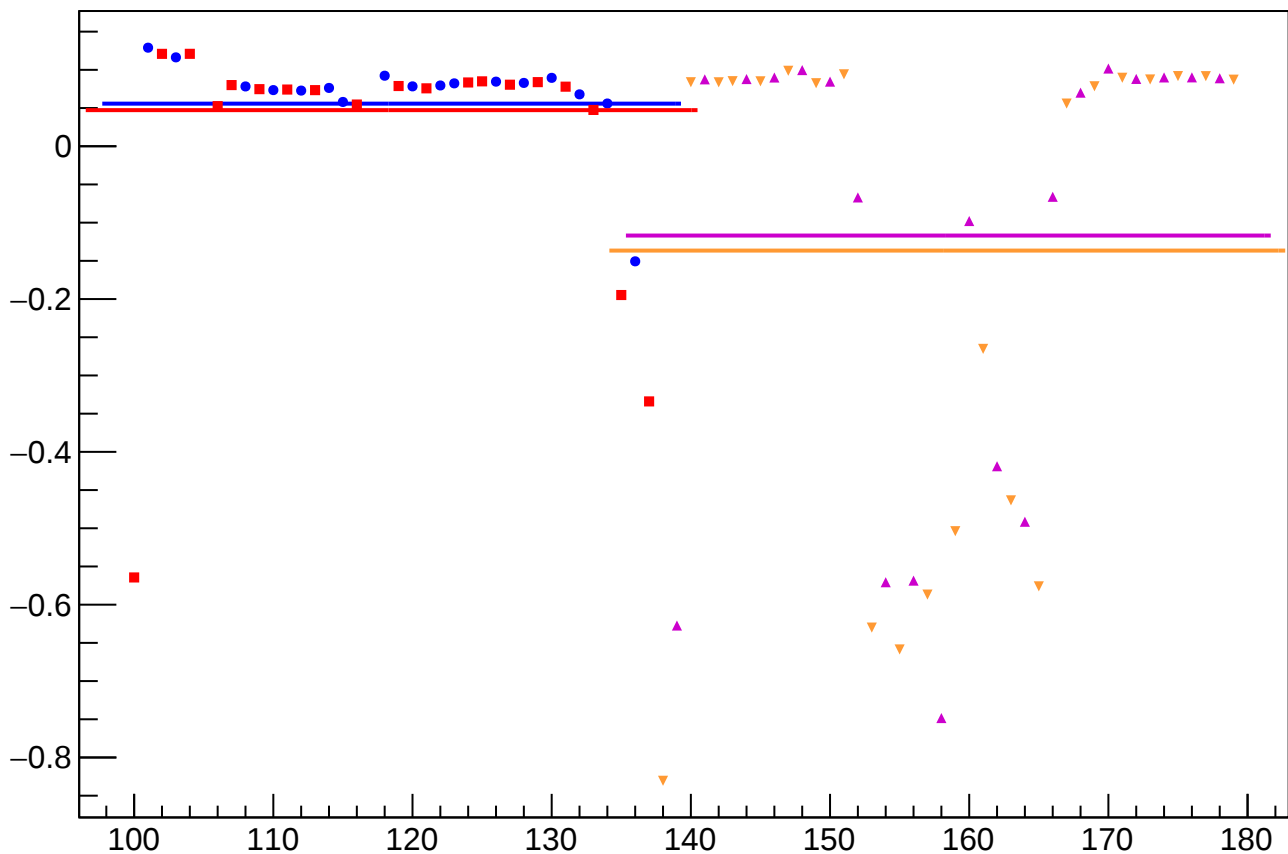
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :553939.9/36

Out: 0.002+/-0.000 χ^2/NDF :582060.6/40

All: 0.002+/-0.000 χ^2/NDF : 1136039.6/77

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056 $\pm$ 0.000

χ^2 /NDF: 423003688.1/16

Left: -0.127 $\pm$ 0.000

χ^2 /NDF: 23460041838.0/41

Left Out: -0.137 $\pm$ 0.000

χ^2 /NDF: 12981241745.3/21

Right: 0.051 $\pm$ 0.000

χ^2 /NDF: 1245197626.4/35

Right Out: 0.047 $\pm$ 0.000

χ^2 /NDF: 819588537.2/18

In: -0.055 $\pm$ 0.000

χ^2 /NDF: 12172703311.6/36

Out: -0.068 $\pm$ 0.000

χ^2 /NDF: 15436655078.1/40

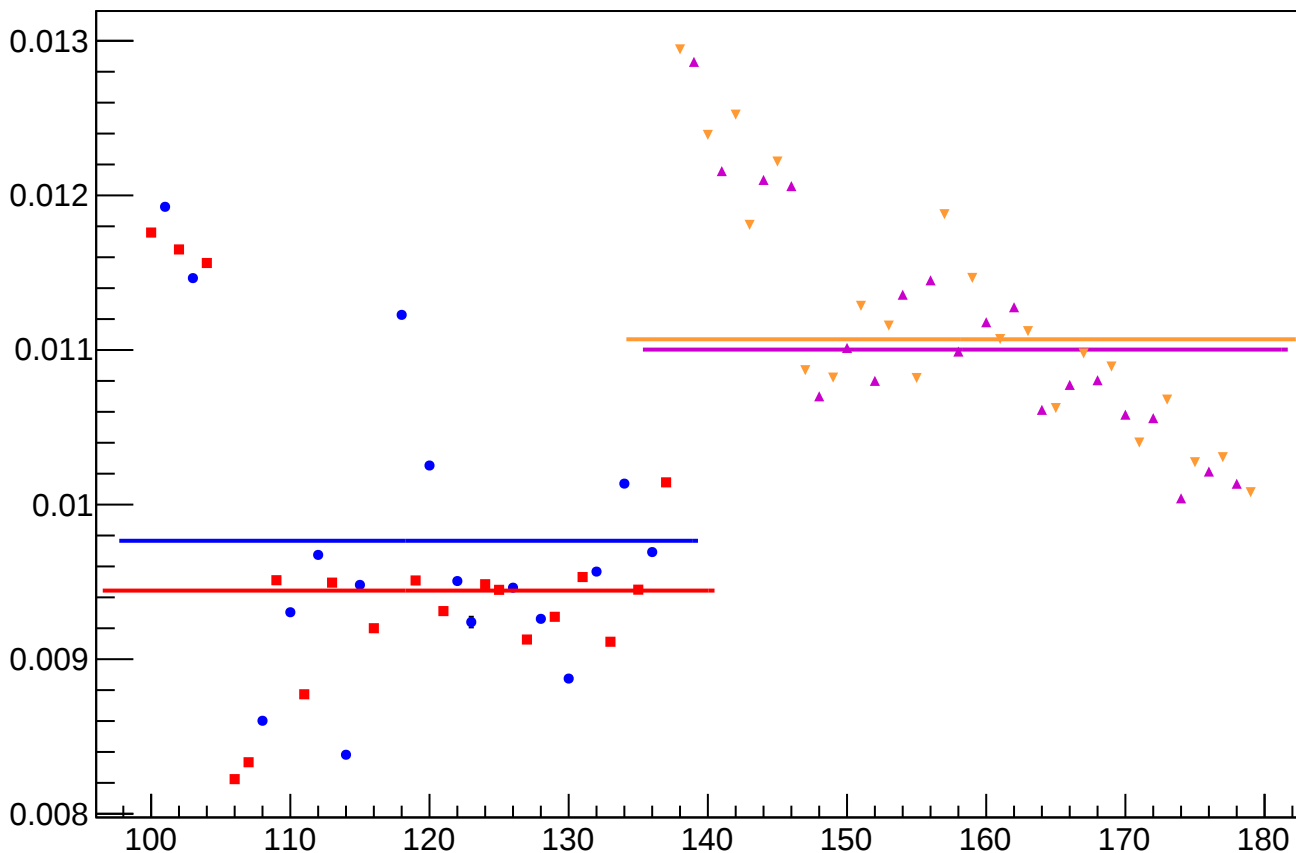
Left In: -0.117 $\pm$ 0.000

χ^2 /NDF: 10454505821.3/19

All: -0.062 $\pm$ 0.000

χ^2 /NDF: 27624367694.2/71

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 :128454.1/21

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 : 243268.0/41

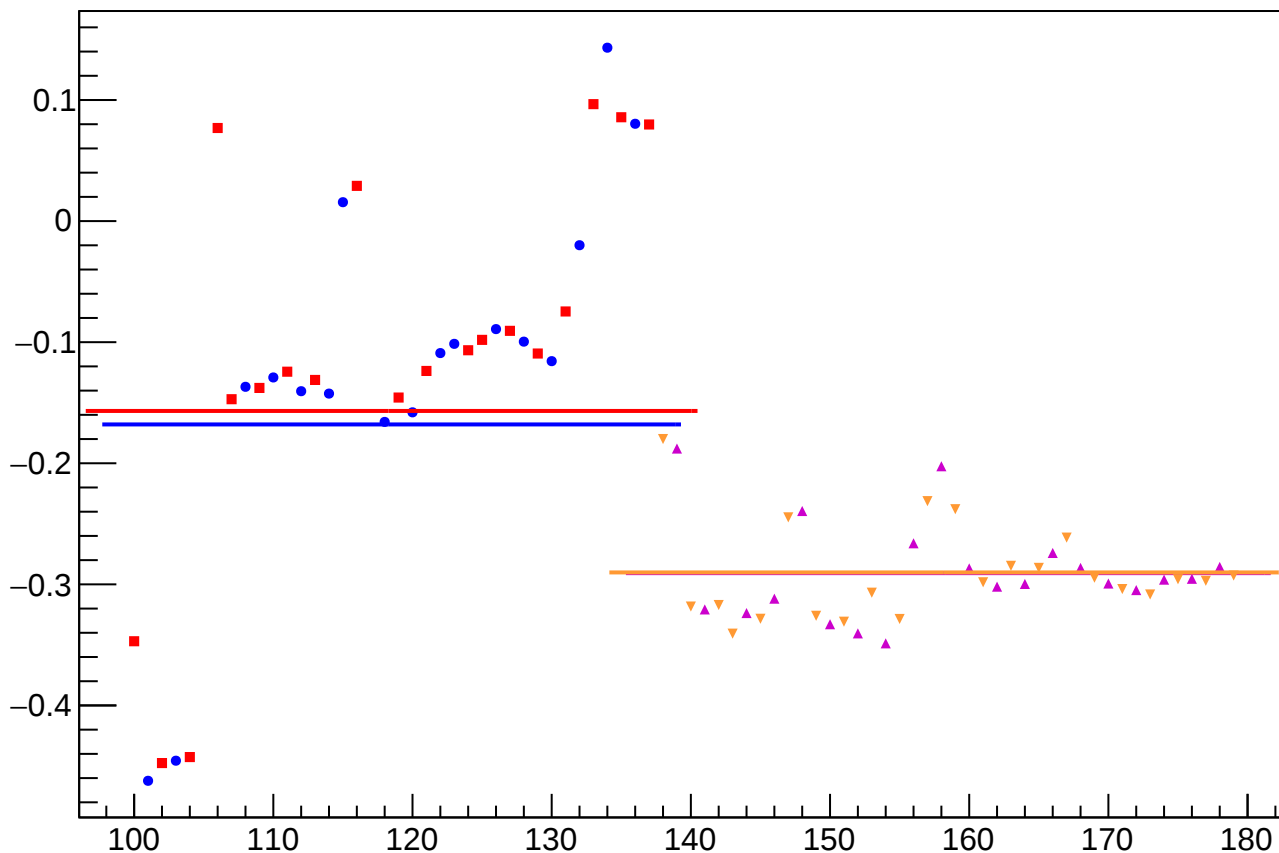
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF :363828.3/36

Out: 0.010+/-0.000 χ^2/NDF :495062.3/40

All: 0.011+/-0.000 χ^2/NDF : 860929.3/77

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 : 2857329916.3/21

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 : 5980575209.1/41

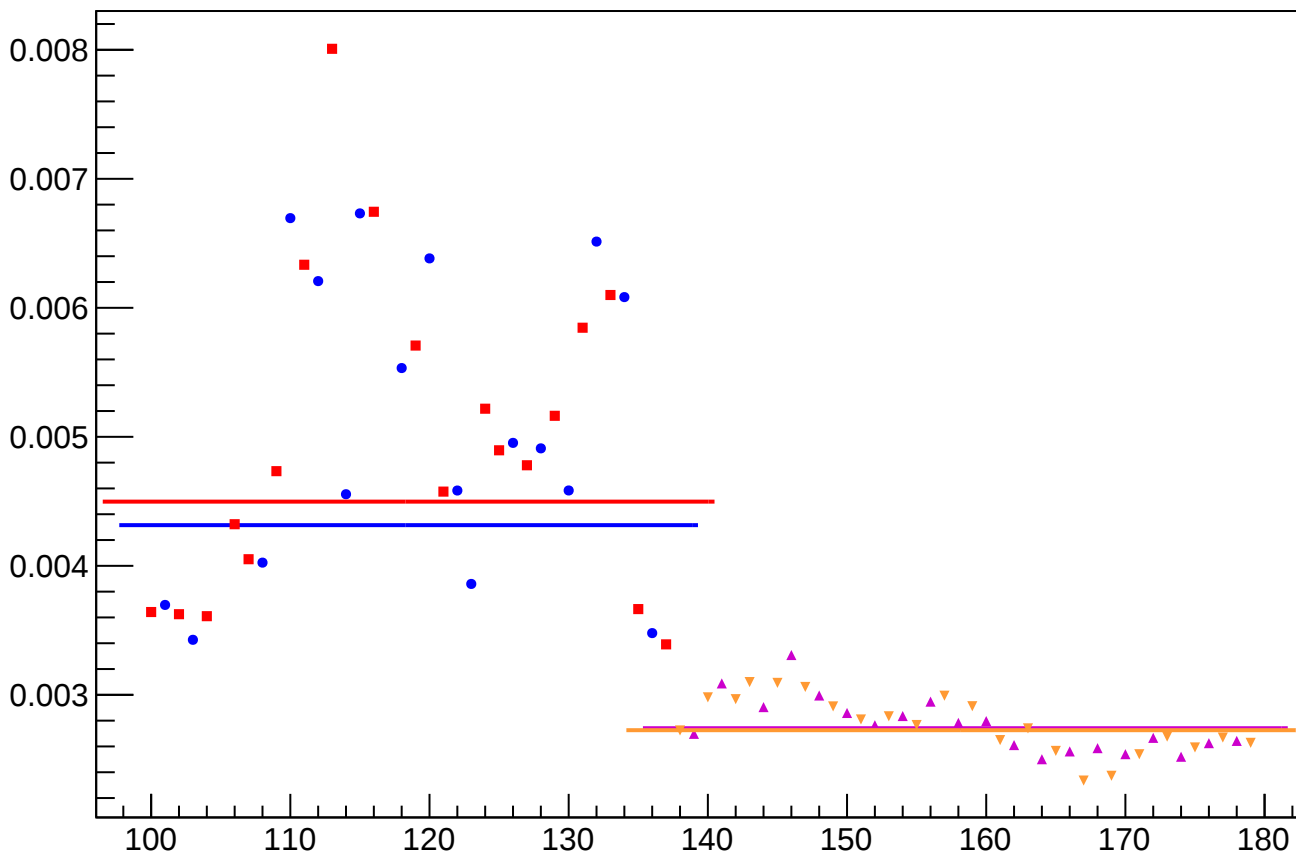
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.274+/-0.000 χ^2/NDF : 19513733171.7/36

Out: -0.273+/-0.000 χ^2/NDF : 18663932428.9/40

All: -0.274+/-0.000 χ^2/NDF : 38178028104.5/75

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 :198810.9/21

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 : 342228.9/41

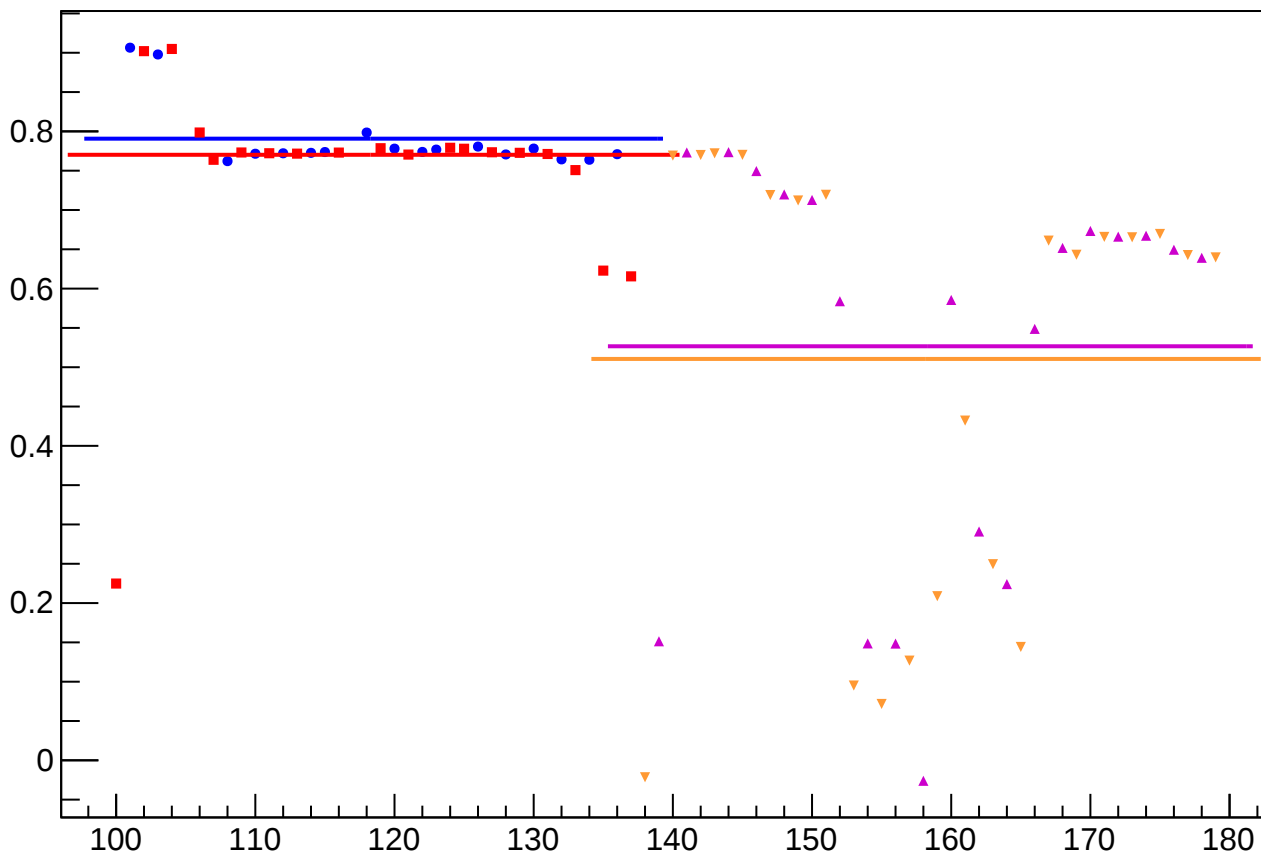
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :2096296.6/36

Out: 0.003+/-0.000 χ^2/NDF :2535768.3/40

All: 0.003+/-0.000 χ^2/NDF : 4632213.6/77

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106705767.1/16

Left Out: 0.511+/-0.000 χ^2/NDF : 9359790411.4/21

Right Out: 0.770+/-0.000 χ^2/NDF : 375442189.7/18

Left In: 0.527+/-0.000 χ^2/NDF : 7680599958.3/19

Left: 0.518+/-0.000 χ^2/NDF : 17057519770.9/41

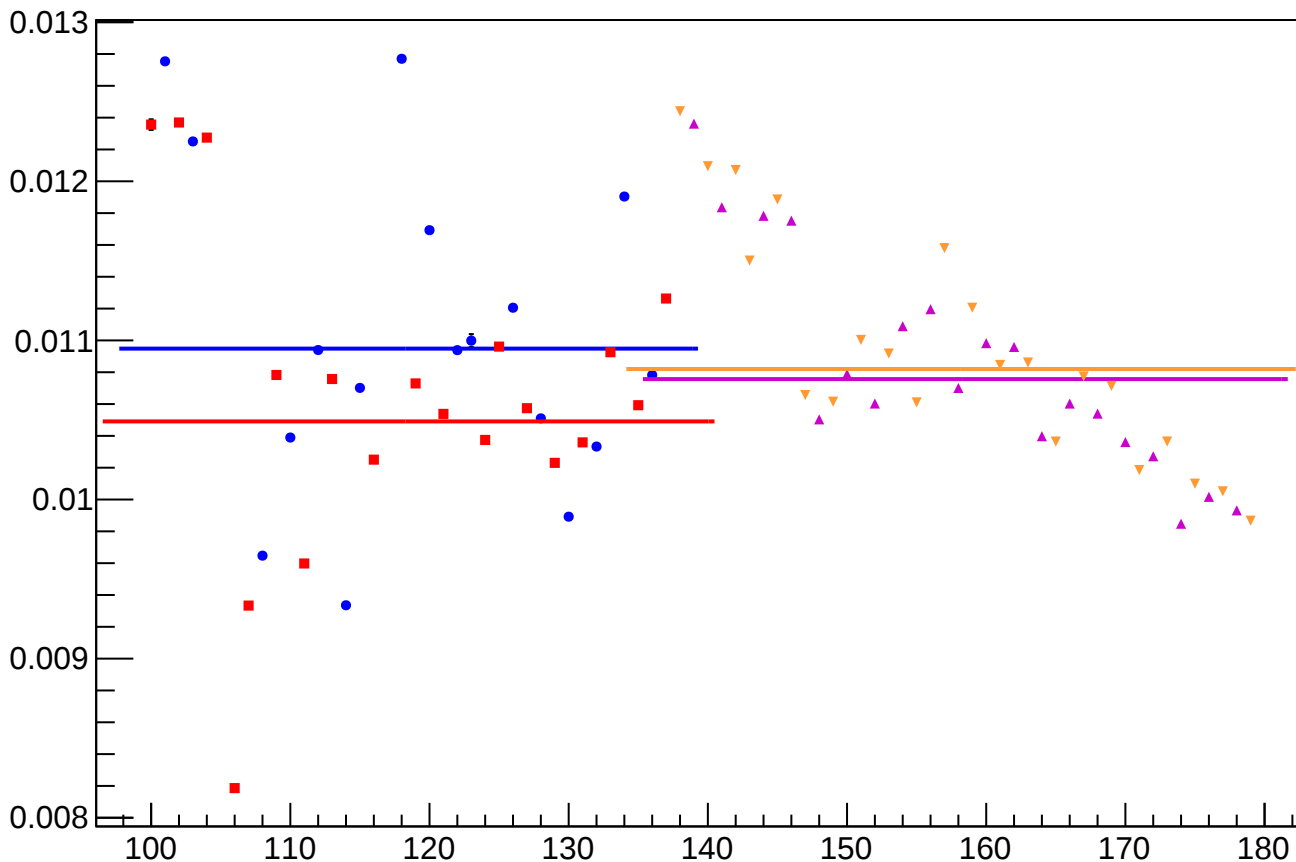
Right: 0.780+/-0.000 χ^2/NDF : 494318002.1/35

In: 0.605+/-0.000 χ^2/NDF : 10429996055.5/36

Out: 0.592+/-0.000 χ^2/NDF : 12629657016.5/40

All: 0.598+/-0.000 χ^2/NDF : 23073699937.2/77

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98551.4/16

Left Out: 0.011+/-0.000 χ^2/NDF : 117385.5/21

Right Out: 0.010+/-0.000 χ^2/NDF : 119420.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 103650.9/19

Left: 0.011+/-0.000 χ^2/NDF : 221567.7/41

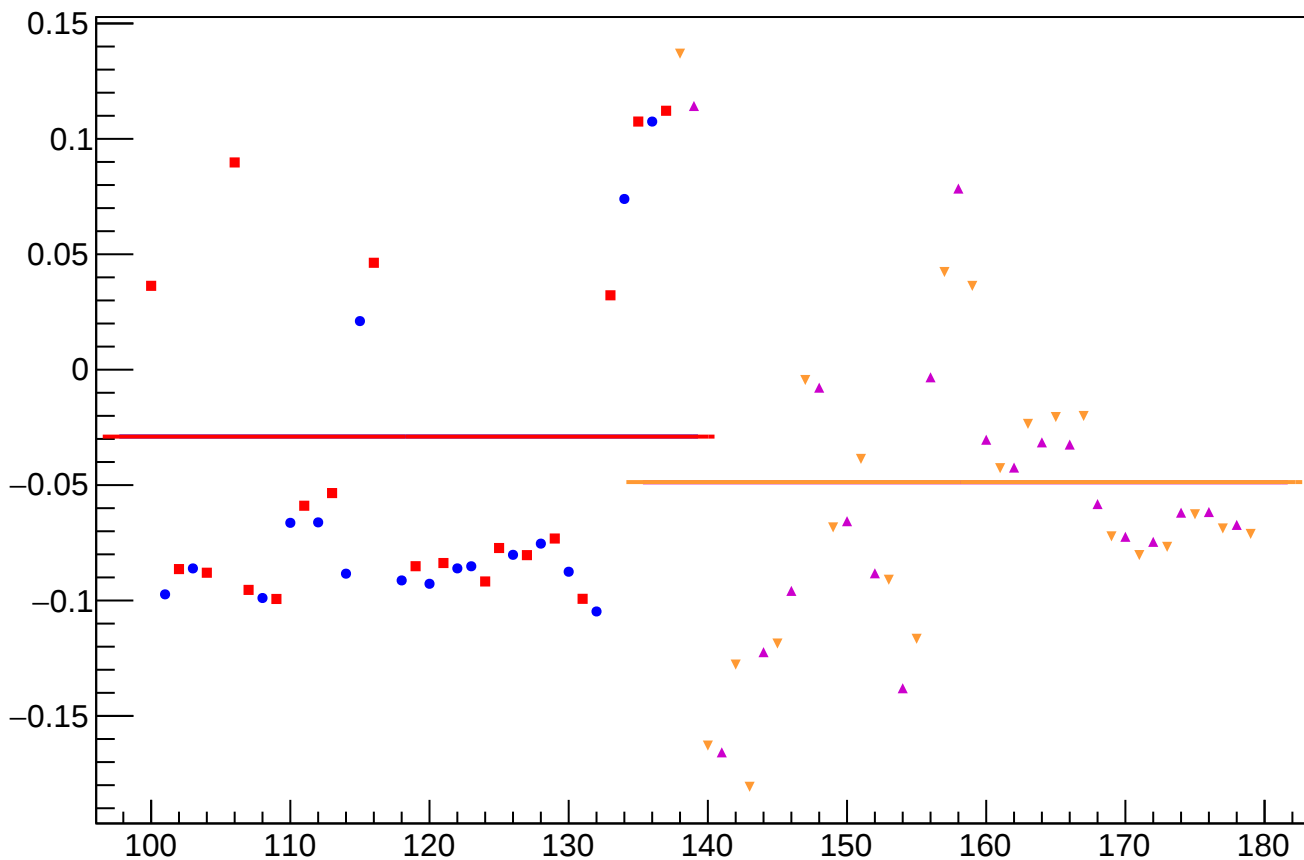
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 204981.7/36

Out: 0.011+/-0.000 χ^2/NDF : 246120.6/40

All: 0.011+/-0.000 χ^2/NDF : 452890.2/77

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000 χ^2/NDF : 2445975608.2/16

Left Out: -0.049+/-0.000 χ^2/NDF : 7173167183.1/21

Right Out: -0.029+/-0.000 χ^2/NDF : 2113349669.8/18

Left In: -0.049+/-0.000 χ^2/NDF : 6077040638.1/19

Left: -0.049+/-0.000 χ^2/NDF : 13250218291.3/41

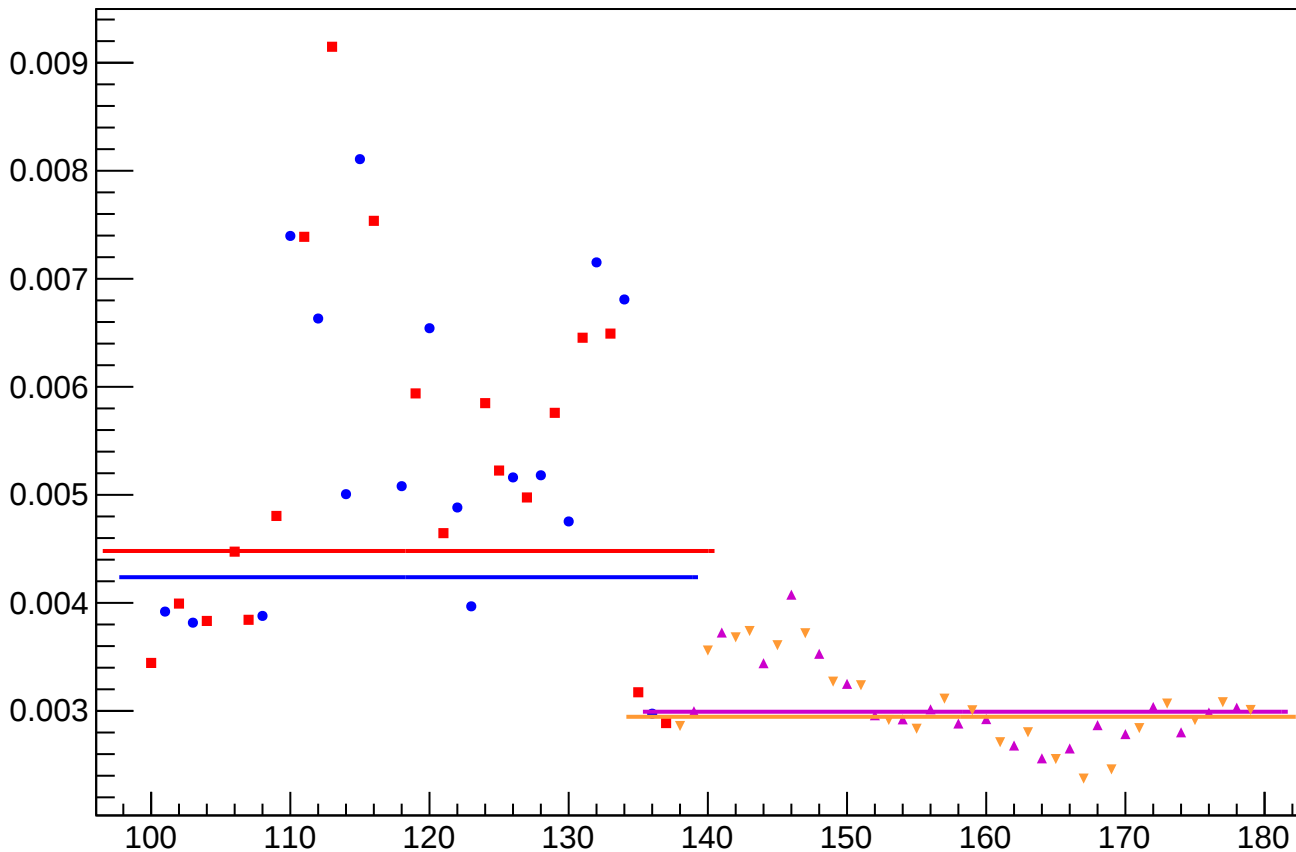
Right: -0.029+/-0.000 χ^2/NDF : 4559325692.9/35

In: -0.046+/-0.000 χ^2/NDF : 8624040045.8/36

Out: -0.046+/-0.000 χ^2/NDF : 9383595134.5/40

All: -0.046+/-0.000 χ^2/NDF : 18007716319.3/76

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 : 467953.9/21

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 : 787964.5/41

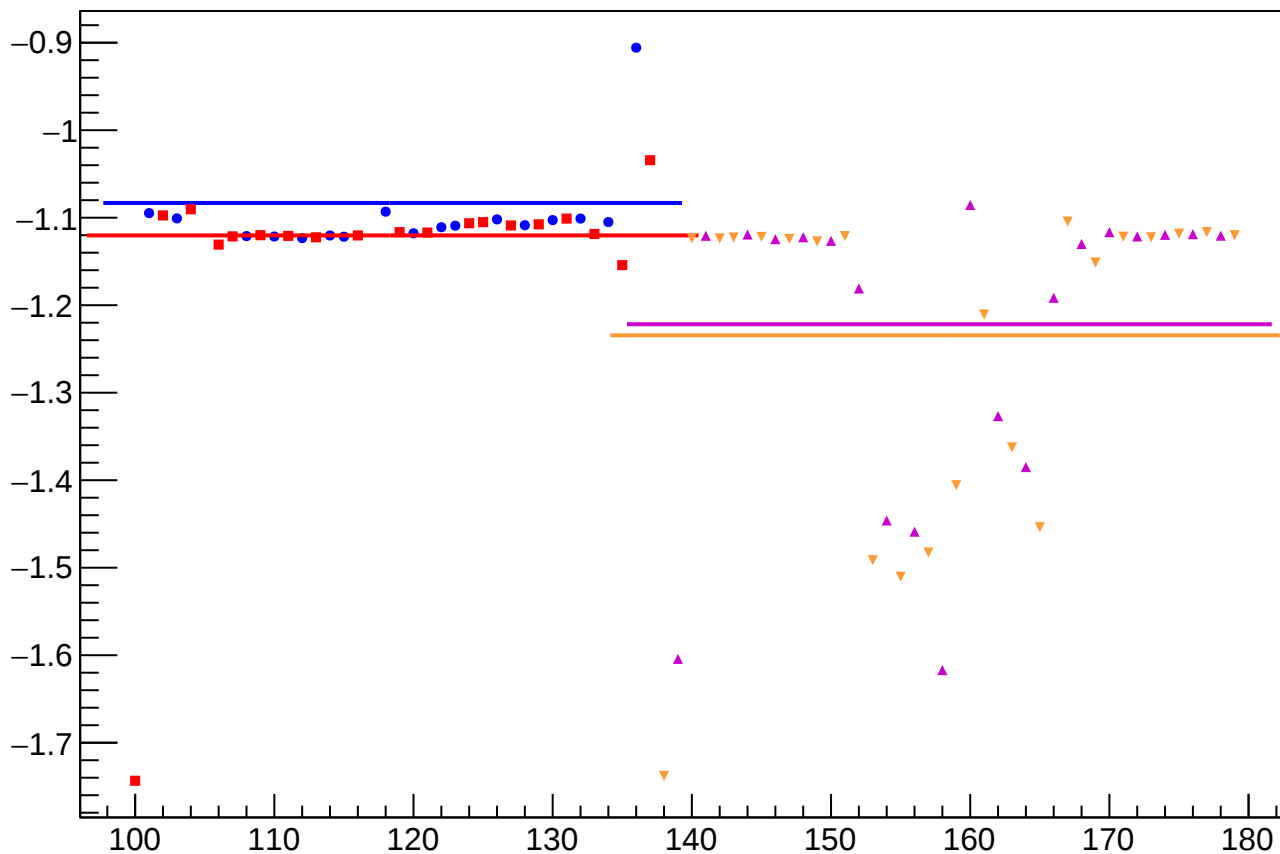
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1992092.3/36

Out: 0.003+/-0.000 χ^2/NDF : 2630779.7/40

All: 0.003+/-0.000 χ^2/NDF : 4624605.6/77

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.234+/-0.000 χ^2/NDF : 5045375728.3/21

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: -1.228+/-0.000 χ^2/NDF : 9368565173.1/41

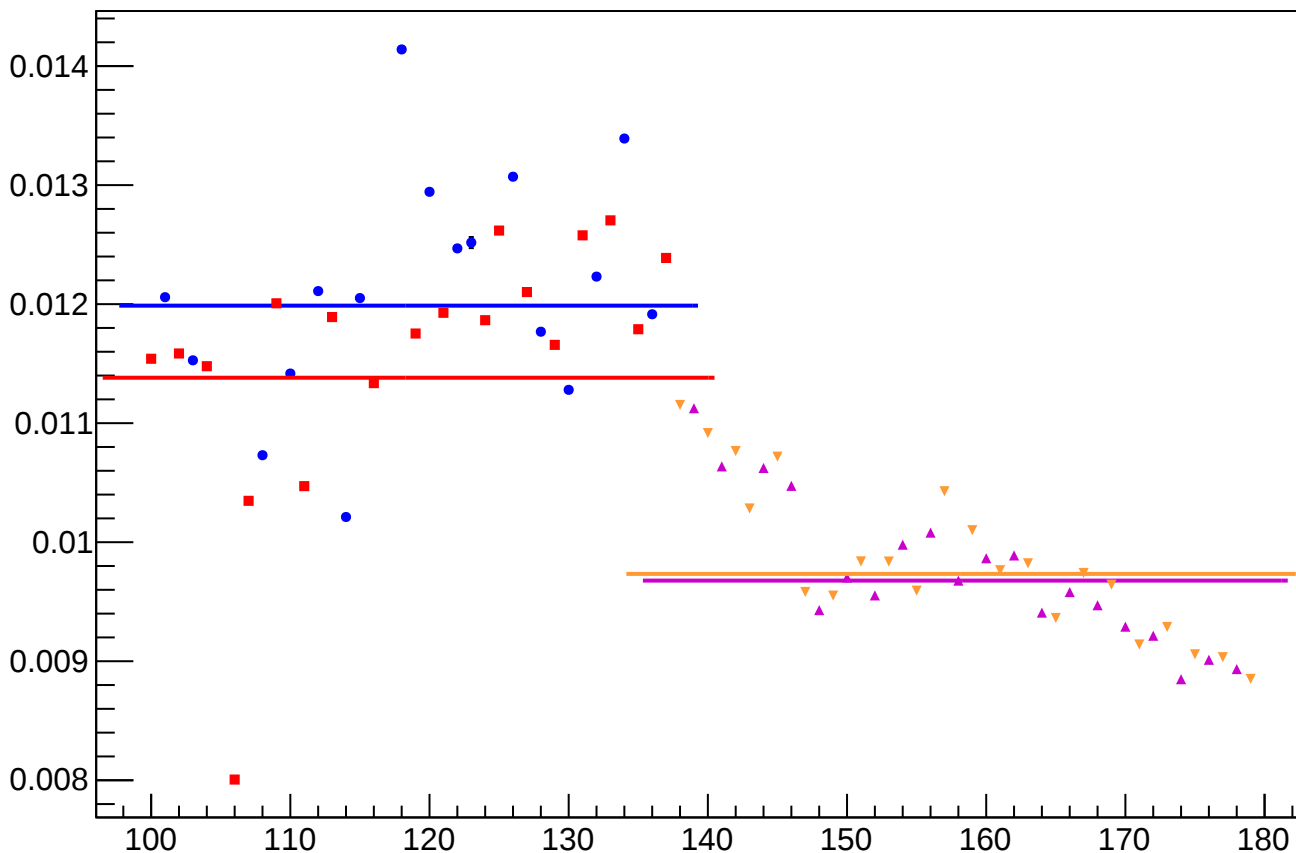
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.191+/-0.000 χ^2/NDF : 5184959970.6/36

Out: -1.207+/-0.000 χ^2/NDF : 5790393192.9/40

All: -1.200+/-0.000 χ^2/NDF : 11001991702.0/80

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:119115.1/21

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: 223094.6/41

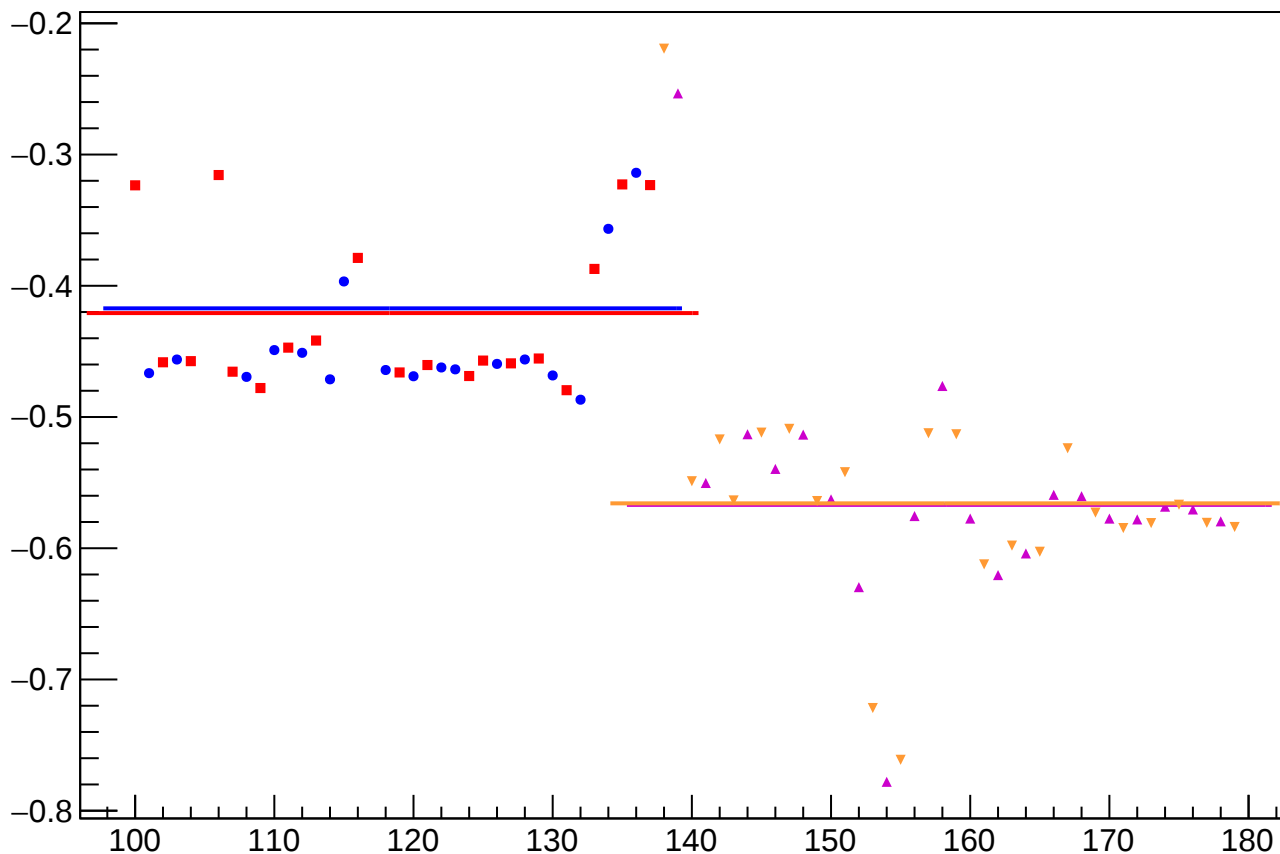
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:537009.6/36

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:492327.0/40

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 1030047.3/77

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.566+/-0.000 χ^2/NDF : 13355057855.6/21

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 : 23801113266.2/41

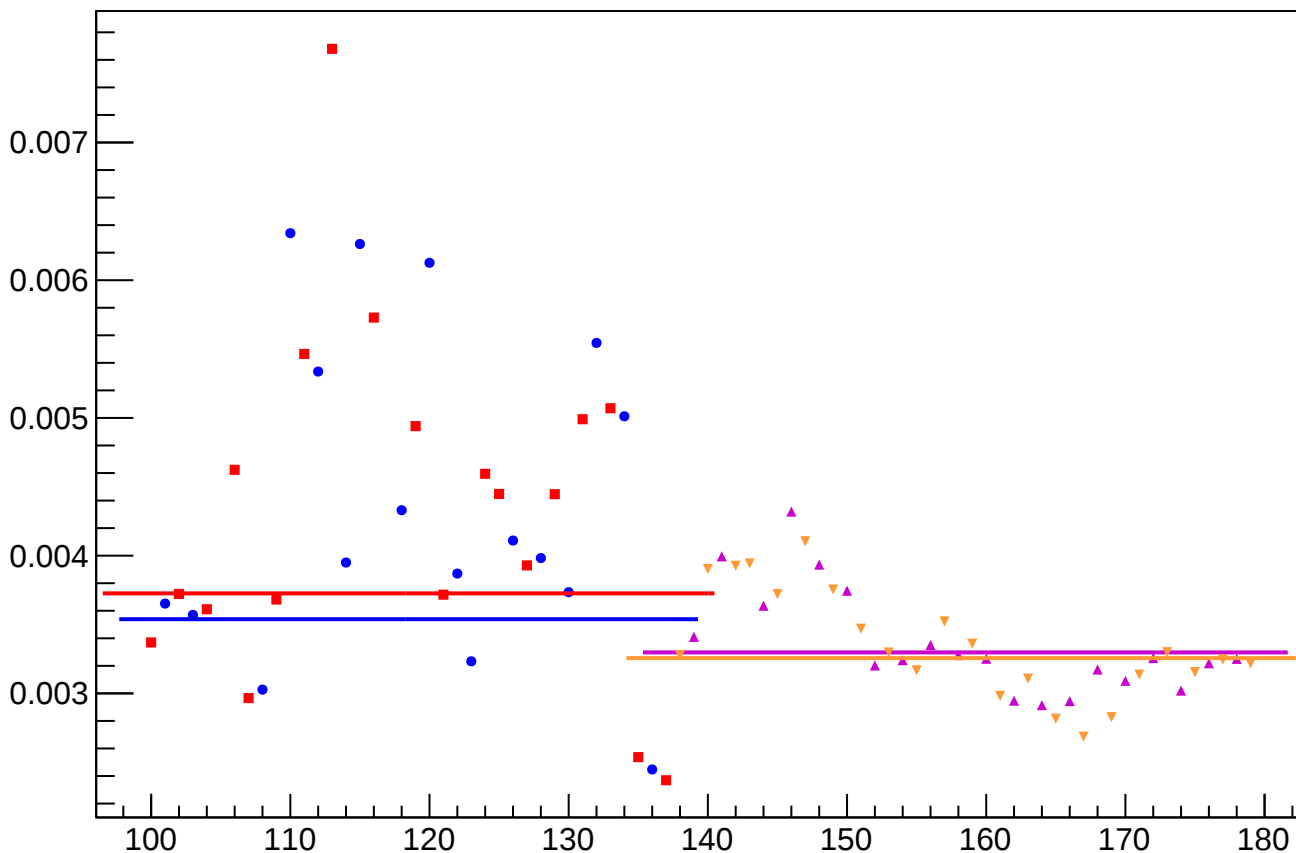
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.530+/-0.000 χ^2/NDF : 19821771678.1/36

Out: -0.533+/-0.000 χ^2/NDF : 21882760391.1/40

All: -0.532+/-0.000 χ^2/NDF : 41714617042.2/76

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 : 374800.8/21

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 : 654706.6/41

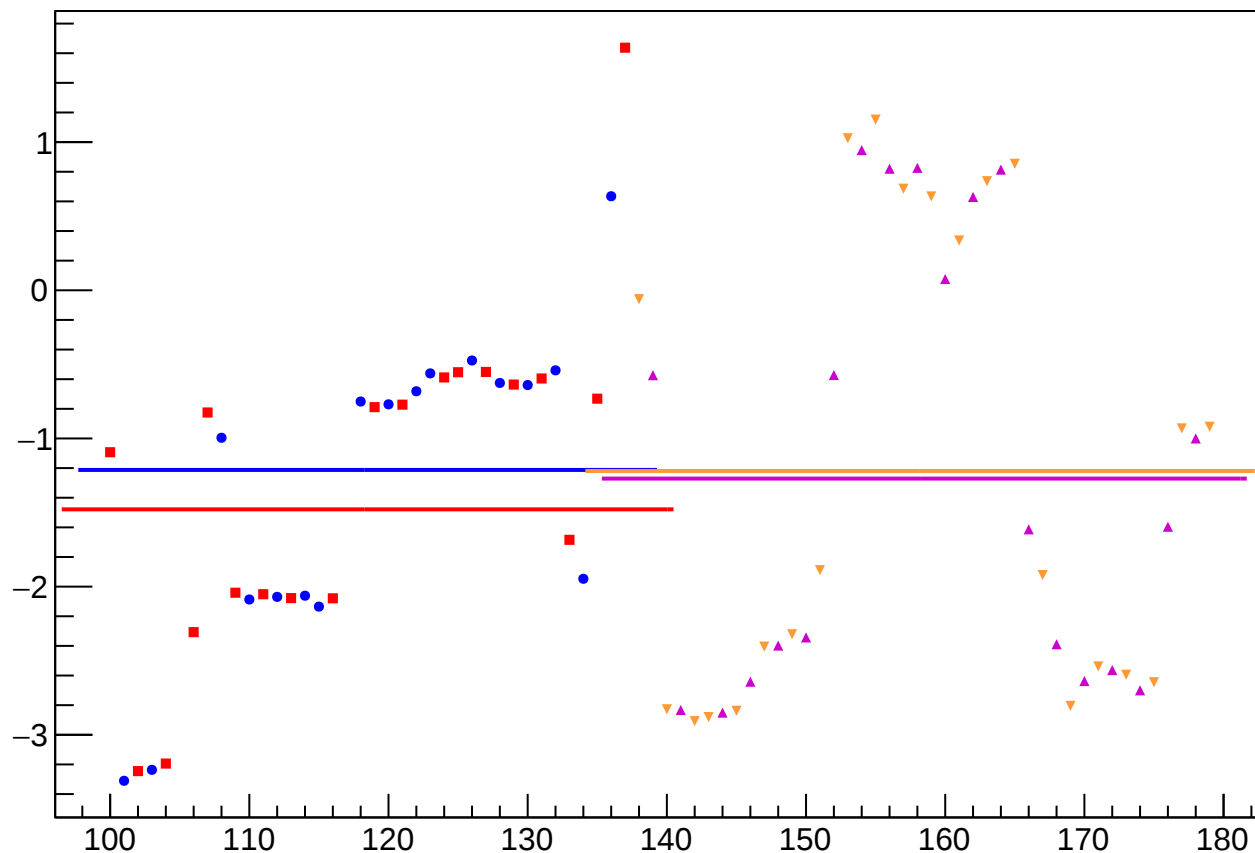
Right: 0.004+/-0.000 χ^2/NDF : 1749655.8/35

In: 0.003+/-0.000 χ^2/NDF : 1151744.1/36

Out: 0.003+/-0.000 χ^2/NDF : 1417931.1/40

All: 0.003+/-0.000 χ^2/NDF : 2569710.5/77

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2 /NDF: 1992853443.9/16

Left Out: -1.219 $\pm$ 0.000 χ^2 /NDF: 6745288868.4/21

Right Out: -1.478 $\pm$ 0.000 χ^2 /NDF: 1578264383.8/18

Left In: -1.271 $\pm$ 0.000 χ^2 /NDF: 5523326059.9/19

Left: -1.244 $\pm$ 0.000 χ^2 /NDF: 12272364169.6/41

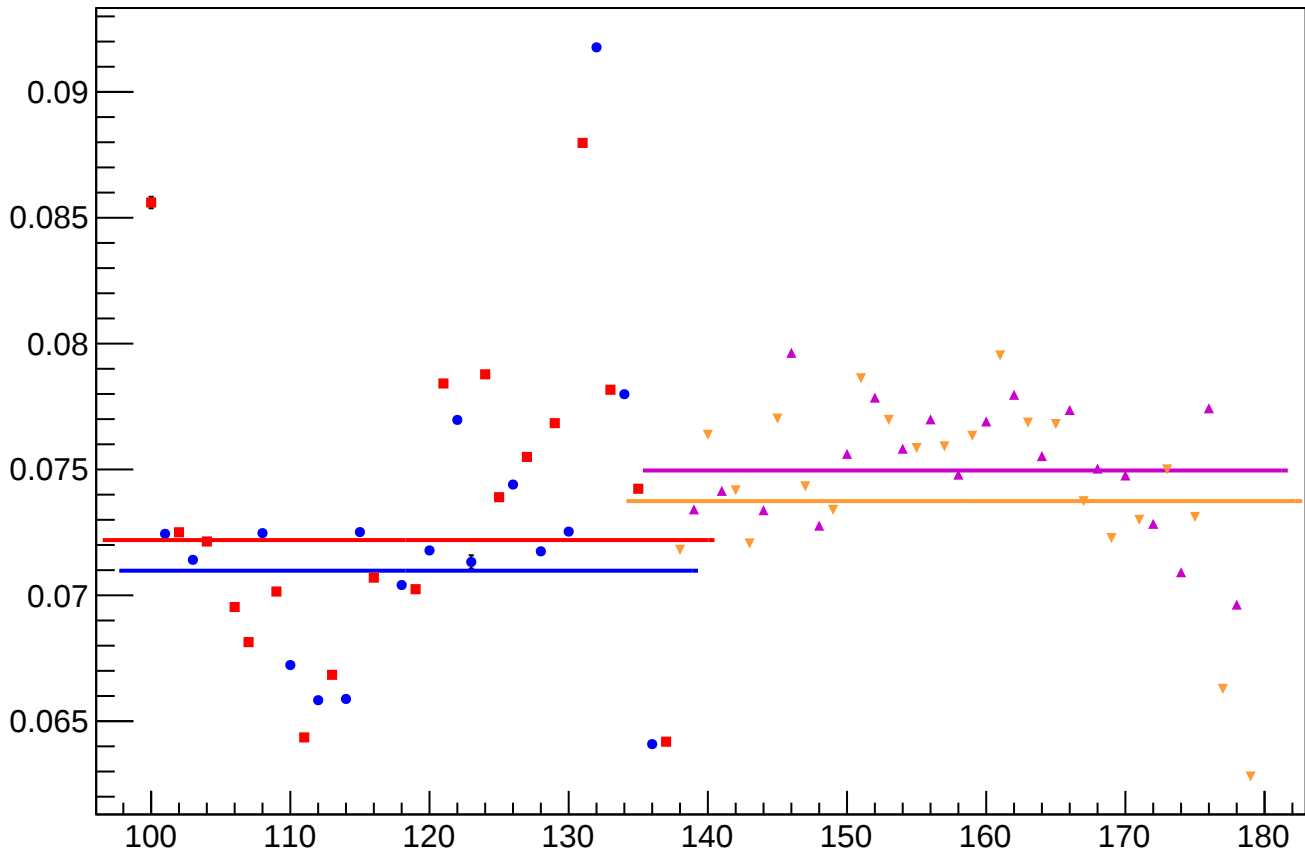
Right: -1.347 $\pm$ 0.000 χ^2 /NDF: 3617796481.7/35

In: -1.252 $\pm$ 0.000 χ^2 /NDF: 7519178109.9/36

Out: -1.299 $\pm$ 0.000 χ^2 /NDF: 8385495254.9/40

All: -1.276 $\pm$ 0.000 χ^2 /NDF: 15909358645.2/70

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.074+/-0.000 χ^2/NDF :100847.1/21

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: 0.074+/-0.000 χ^2/NDF : 137699.0/41

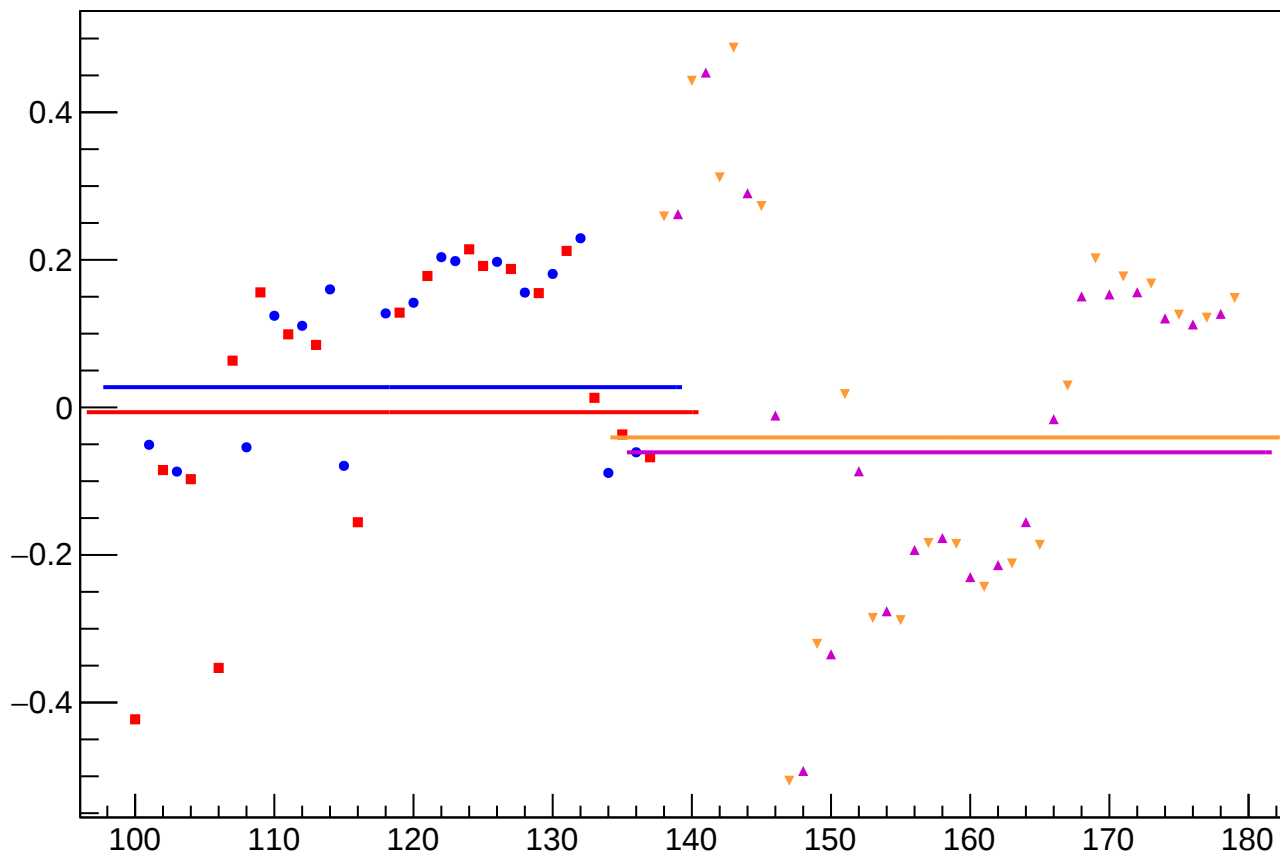
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF :138113.3/36

Out: 0.073+/-0.000 χ^2/NDF :178508.3/40

All: 0.073+/-0.000 χ^2/NDF : 317268.7/77

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562337631.4/16

Left: -0.050+/-0.000

χ^2/NDF : 34172488998.0/41

Left Out: -0.041+/-0.000

χ^2/NDF : 19419306643.7/21

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

Left In: -0.061+/-0.000

χ^2/NDF : 14685520068.2/19

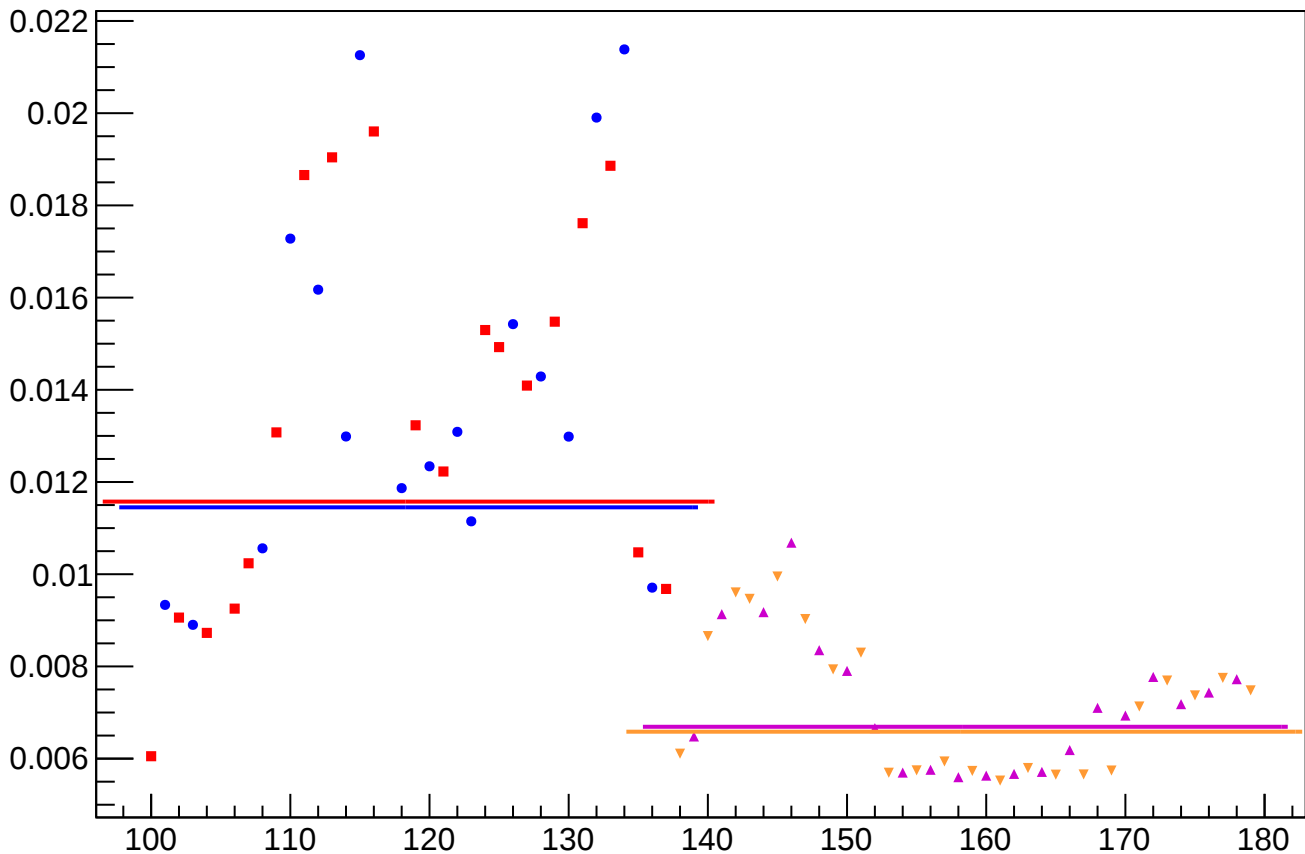
Out: -0.037+/-0.000

χ^2/NDF : 20664505310.2/40

All: -0.043+/-0.000

χ^2/NDF : 36245660729.3/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 679628.0/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1062217.3/21

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 997161.1/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:881893.1/19

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 1947891.6/41

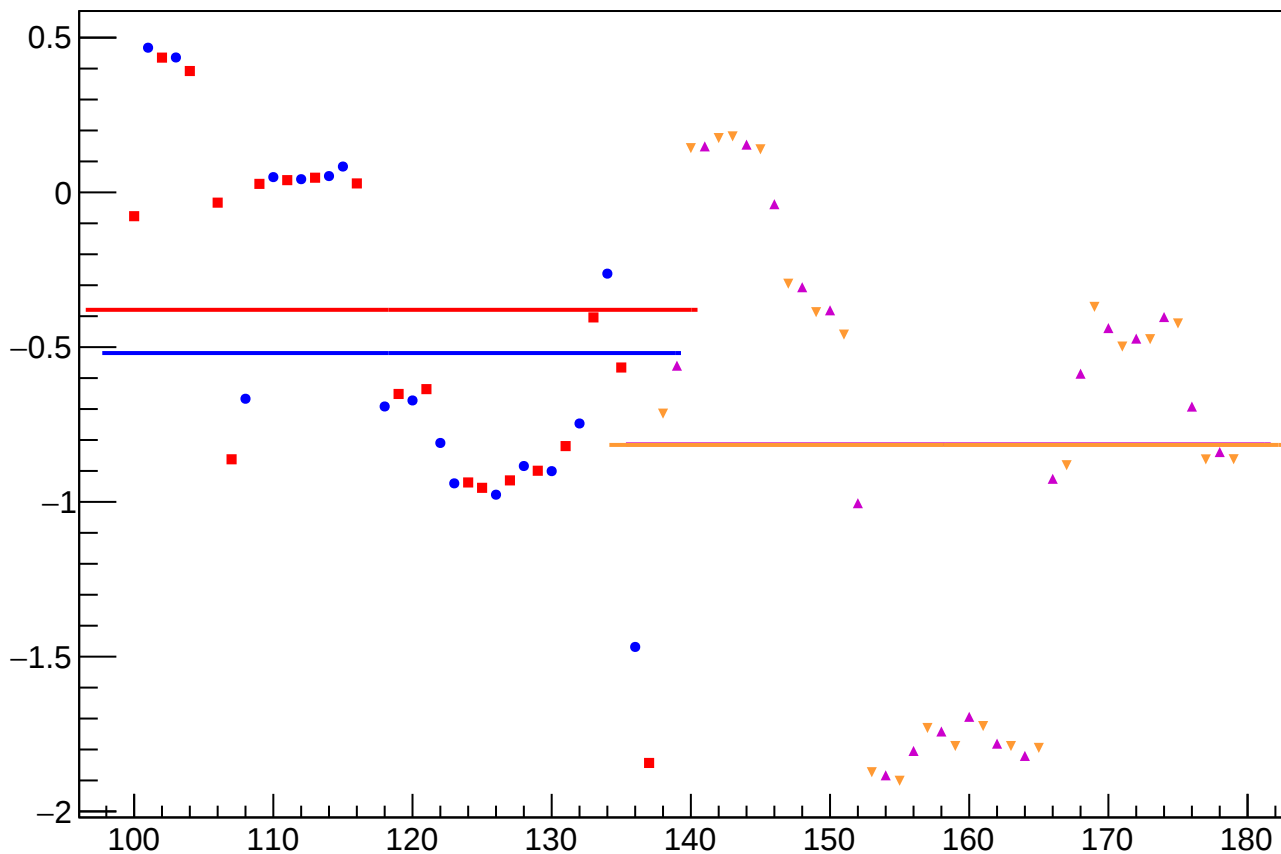
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 1677468.5/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:3305219.3/36

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:4017859.4/40

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 7329184.7/77

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 $\pm$ 0.000 χ^2/NDF : 339383872.4/16

Left Out: -0.816 $\pm$ 0.000 χ^2/NDF : 1082345092.6/21

Right Out: -0.379 $\pm$ 0.000 χ^2/NDF : 268621179.0/18

Left In: -0.814 $\pm$ 0.000 χ^2/NDF : 919192439.9/19

Left: -0.815 $\pm$ 0.000 χ^2/NDF : 2001541210.9/41

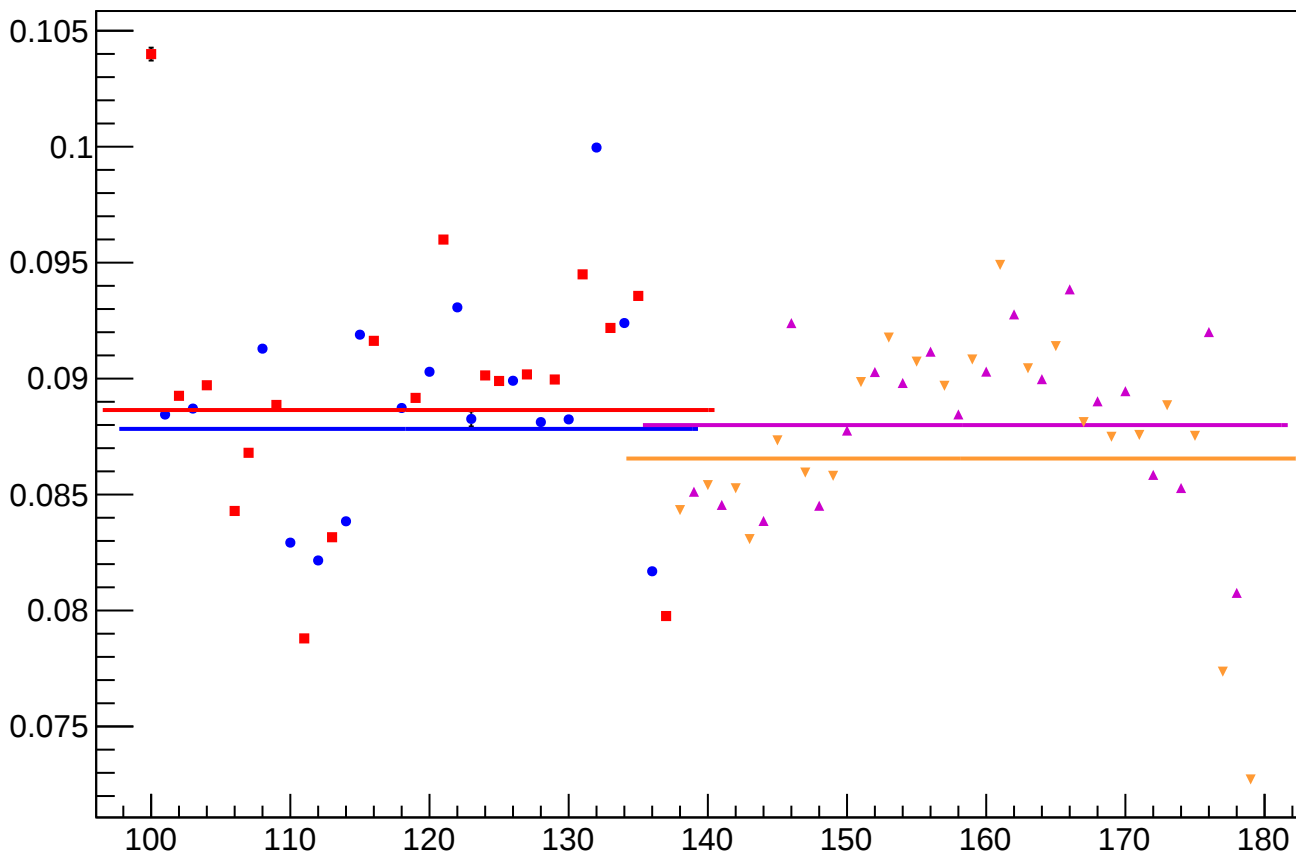
Right: -0.448 $\pm$ 0.000 χ^2/NDF : 616632603.2/35

In: -0.724 $\pm$ 0.000 χ^2/NDF : 1310977877.8/36

Out: -0.689 $\pm$ 0.000 χ^2/NDF : 1472842964.8/40

All: -0.706 $\pm$ 0.000 χ^2/NDF : 2785676529.0/7

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 34954.4/16

Left Out: 0.087+/-0.000 χ^2/NDF :119424.7/21

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: 0.087+/-0.000 χ^2/NDF : 170264.6/41

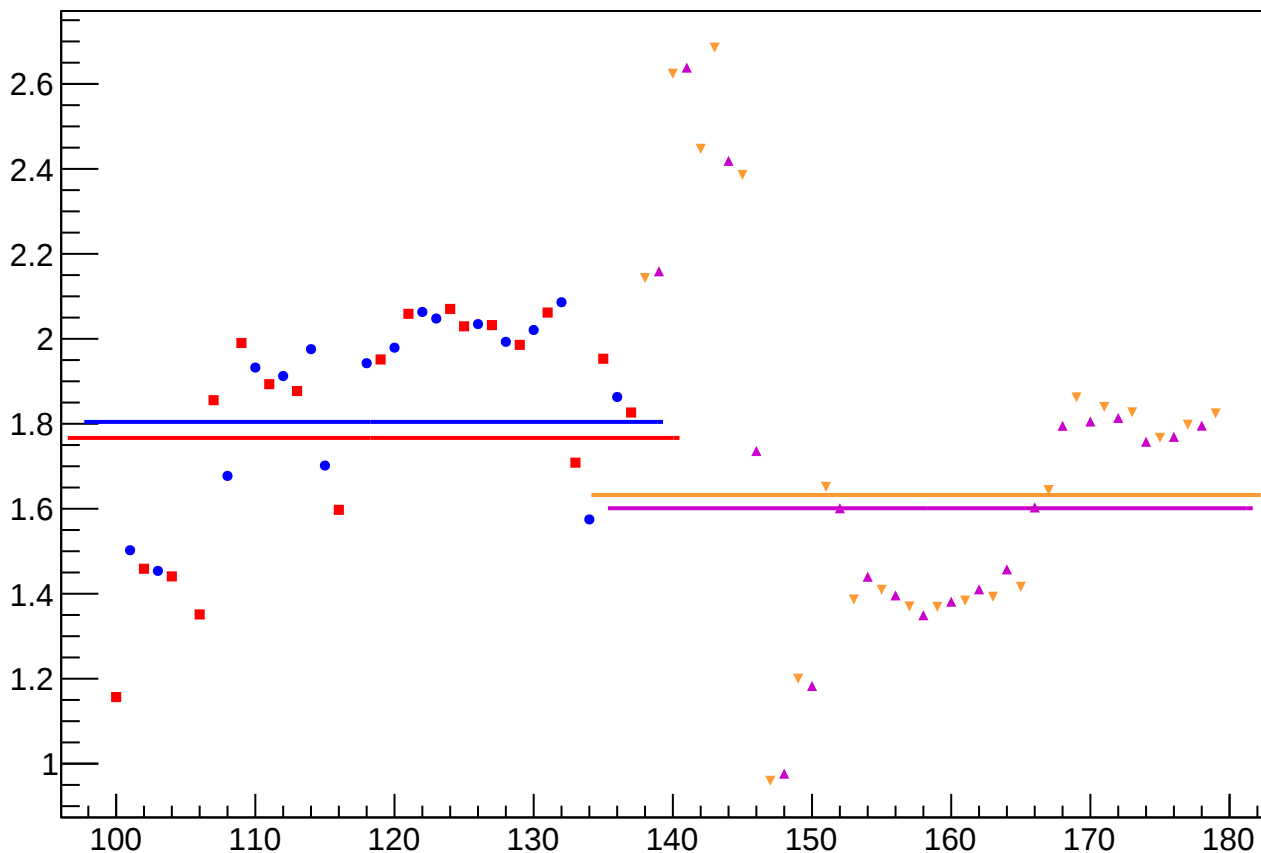
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF :81500.9/36

Out: 0.087+/-0.000 χ^2/NDF :164744.1/40

All: 0.088+/-0.000 χ^2/NDF : 248061.8/77

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804+/-0.000

χ^2/NDF : 1156747883.2/16

Left: 1.618+/-0.000 χ^2/NDF : 45880164359.8/41

Right: 1.786+/-0.000 χ^2/NDF : 2883751688.5/35

Left Out: 1.632+/-0.000

χ^2/NDF : 25791575198.6/21

In: 1.627+/-0.000 χ^2/NDF : 22085873777.2/36

Right Out: 1.767+/-0.000

χ^2/NDF : 1709259284.5/18

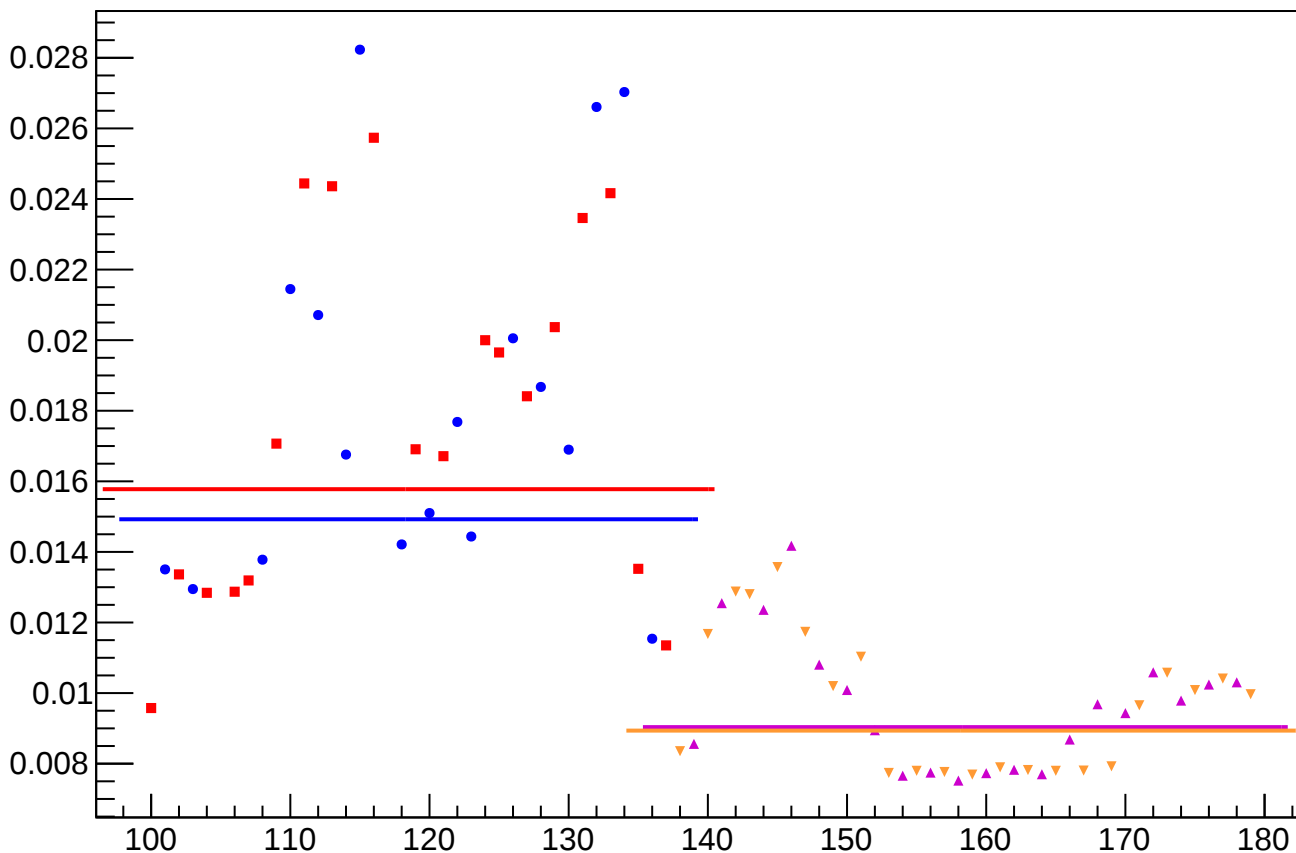
Out: 1.647+/-0.000 χ^2/NDF : 27889787546.5/40

Left In: 1.601+/-0.000

χ^2/NDF : 19999652666.2/19

All: 1.638+/-0.000 χ^2/NDF : 50017370630.4/7

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 975316.1/21

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 : 1814731.2/41

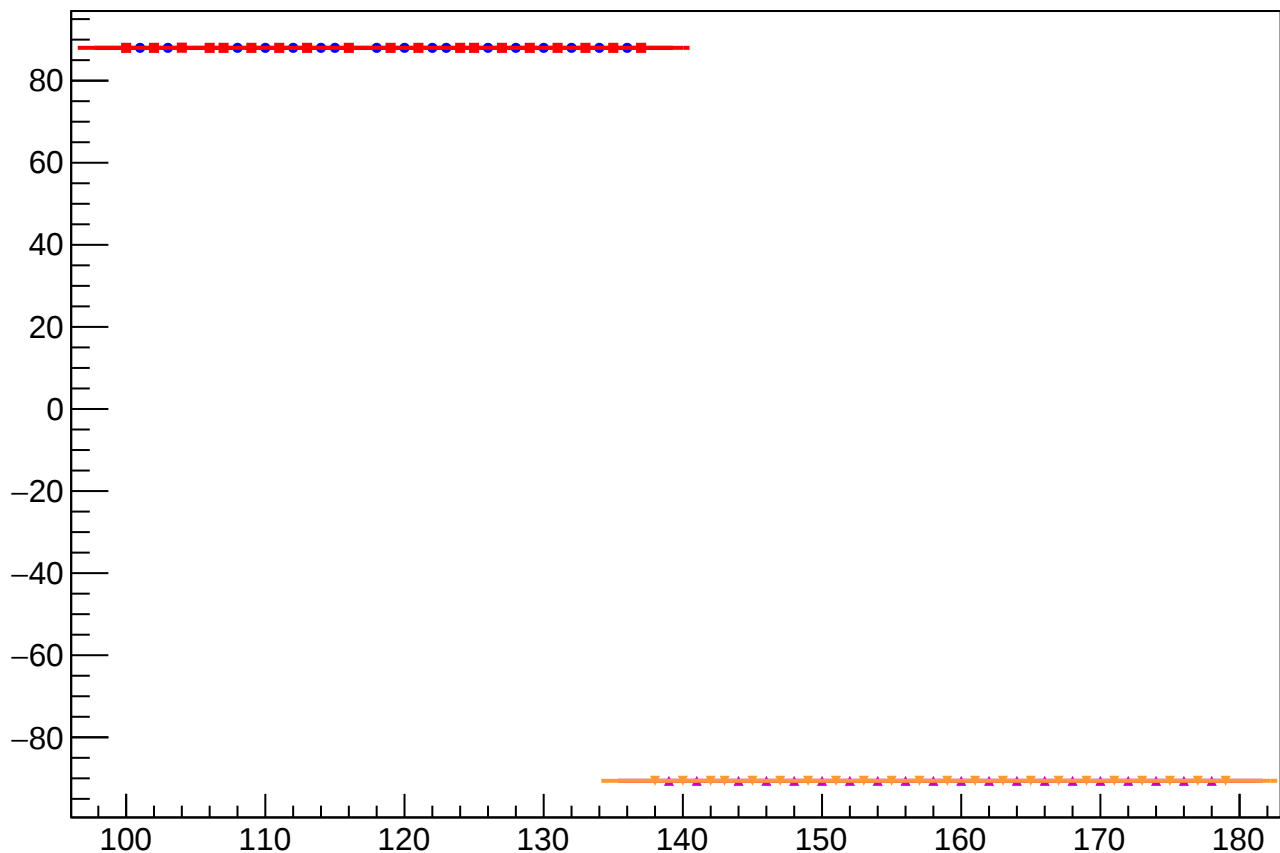
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF : 3041782.2/36

Out: 0.010+/-0.000 χ^2/NDF : 3775932.9/40

All: 0.010+/-0.000 χ^2/NDF : 6819492.5/77

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1852068.7/16

Left Out: -90.599+/-0.000 χ^2/NDF : 6455482.3/21

Right Out: 88.004+/-0.000 χ^2/NDF : 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 5476638.4/19

Left: -90.599+/-0.000 χ^2/NDF : 11748953.5/41

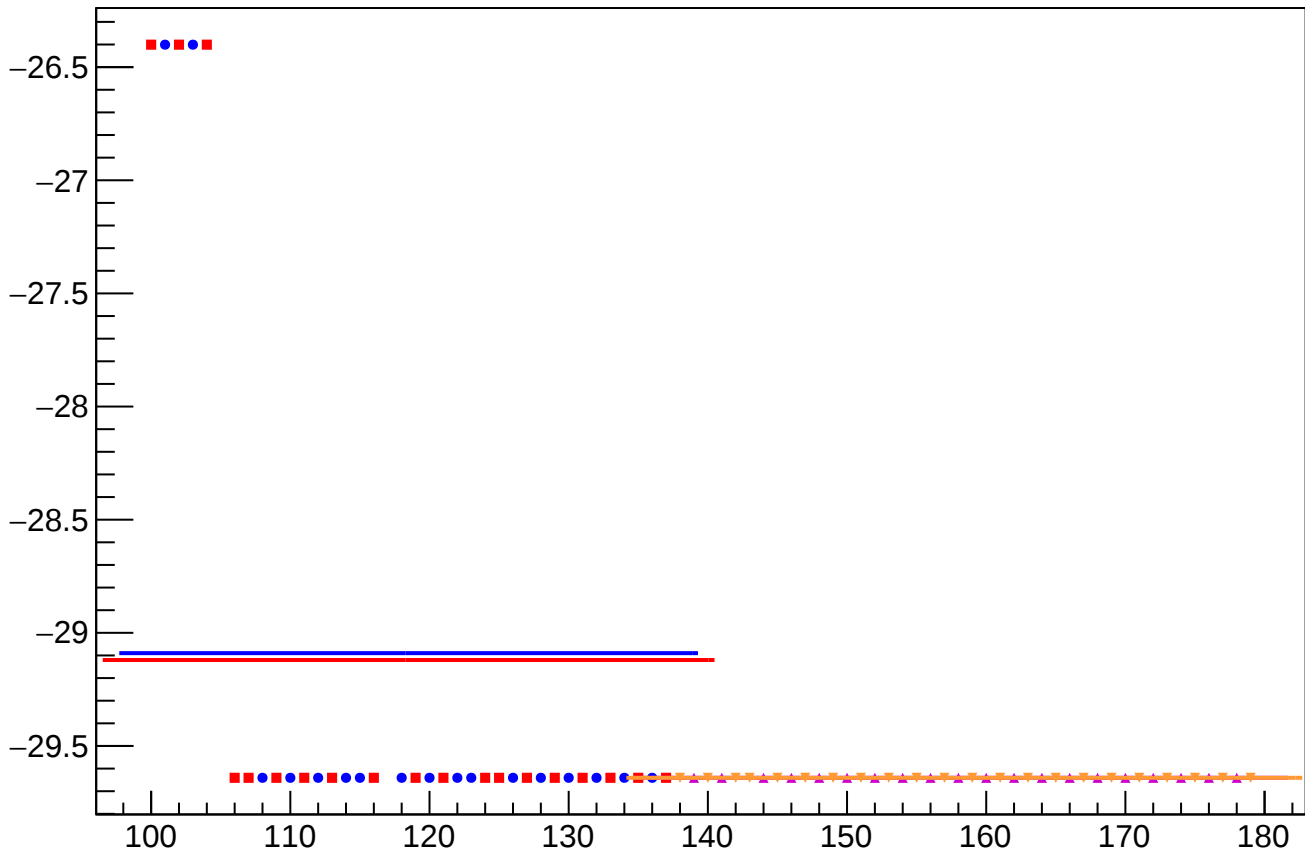
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -36.497+/-0.000 χ^2/NDF : 15431289057738957

Out: -37.642+/-0.000 χ^2/NDF : 1620214077688166

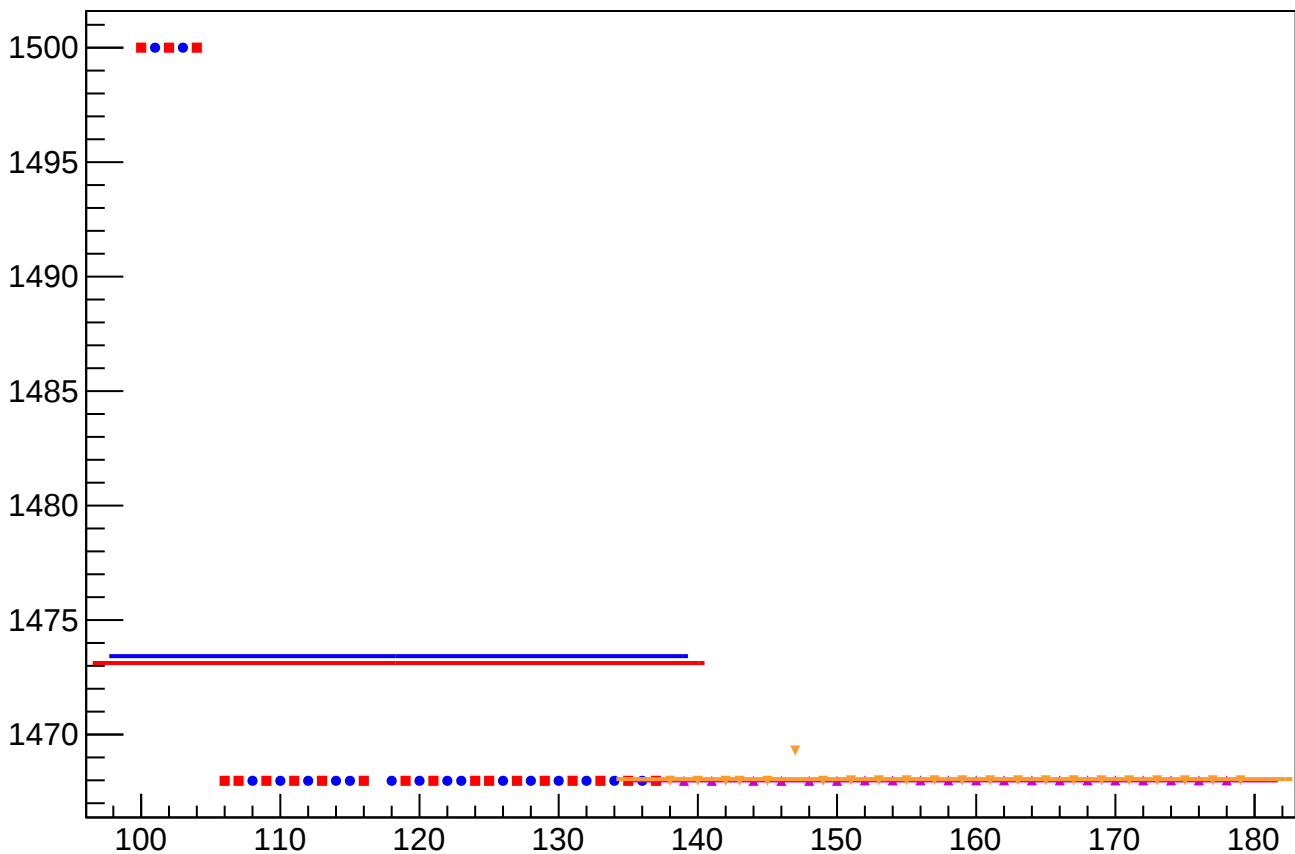
All: -37.087+/-0.000 χ^2/NDF : 316349771453

epics_HWienAngles_mean vs Slug, Sign Corrected



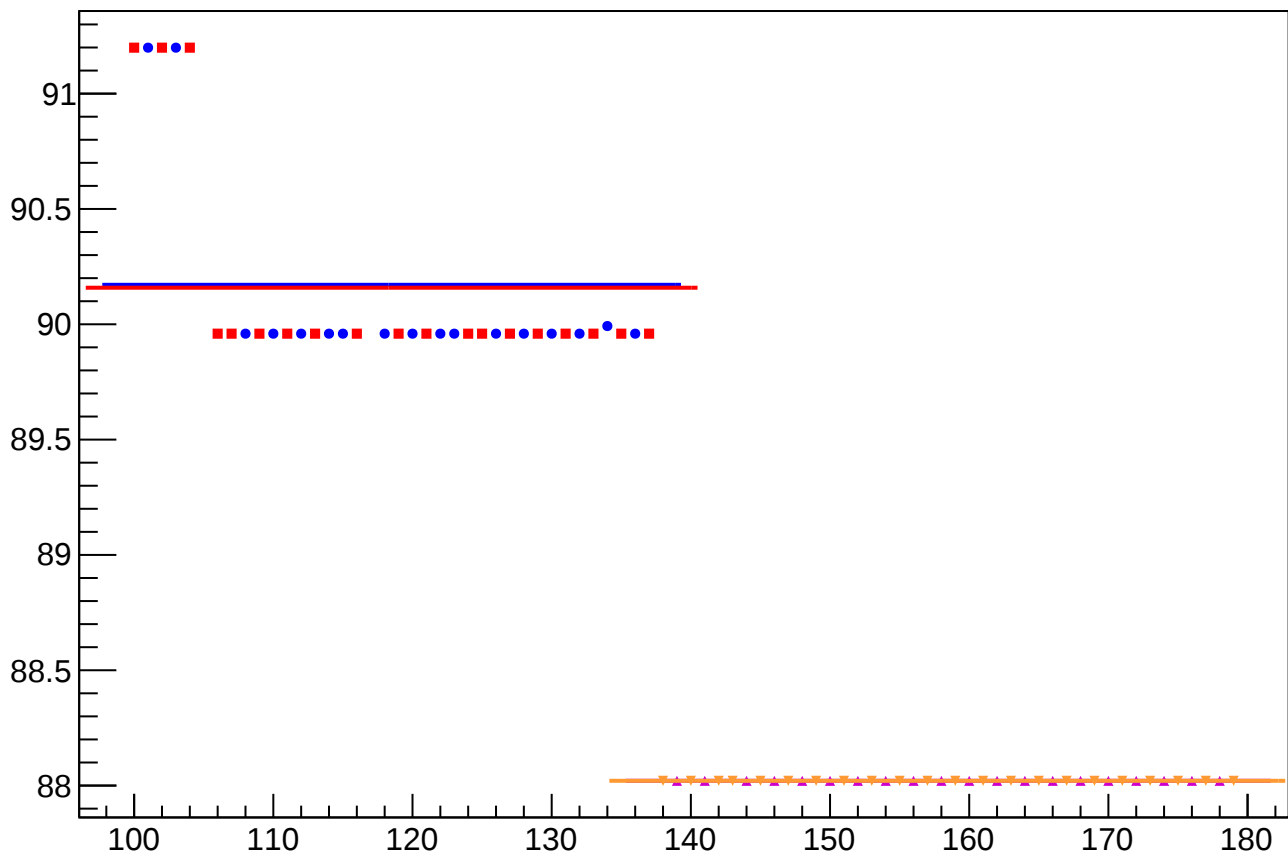
Right In: -29.090+/-0.000 χ^2/NDF : 1028099246109521929793835198578688.0/16
 Left Out: -29.641+/-0.000 χ^2/NDF : 251085.0/21
 Right Out: -29.120+/-0.000 χ^2/NDF : 1022076578393359839206130891882496.0/18
 Left In: -29.641+/-0.000 χ^2/NDF : 333984.8/19
 In: -29.474+/-0.000 χ^2/NDF : 11749155855084974
 Out: -29.486+/-0.000 χ^2/NDF : 1159711043285395
 All: -29.480+/-0.000 χ^2/NDF : 233481195361

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.424+/-0.000 χ^2/NDF : 100421295828245505125784497044848640.0/16
 Left Out: 1468.053+/-0.000 χ^2/NDF : 127416553240058628421798493945856.0/21
 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: 1469.596+/-0.000 χ^2/NDF : 22771675429

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 6320378.8/21

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5490976.8/19

Left: 88.021+/-0.000 χ^2/NDF : 10404179.2/41

Right: 90.165+/-0.000

χ^2/NDF : 3000783518908113

In: 88.672+/-0.000

χ^2/NDF : 238743920714308223

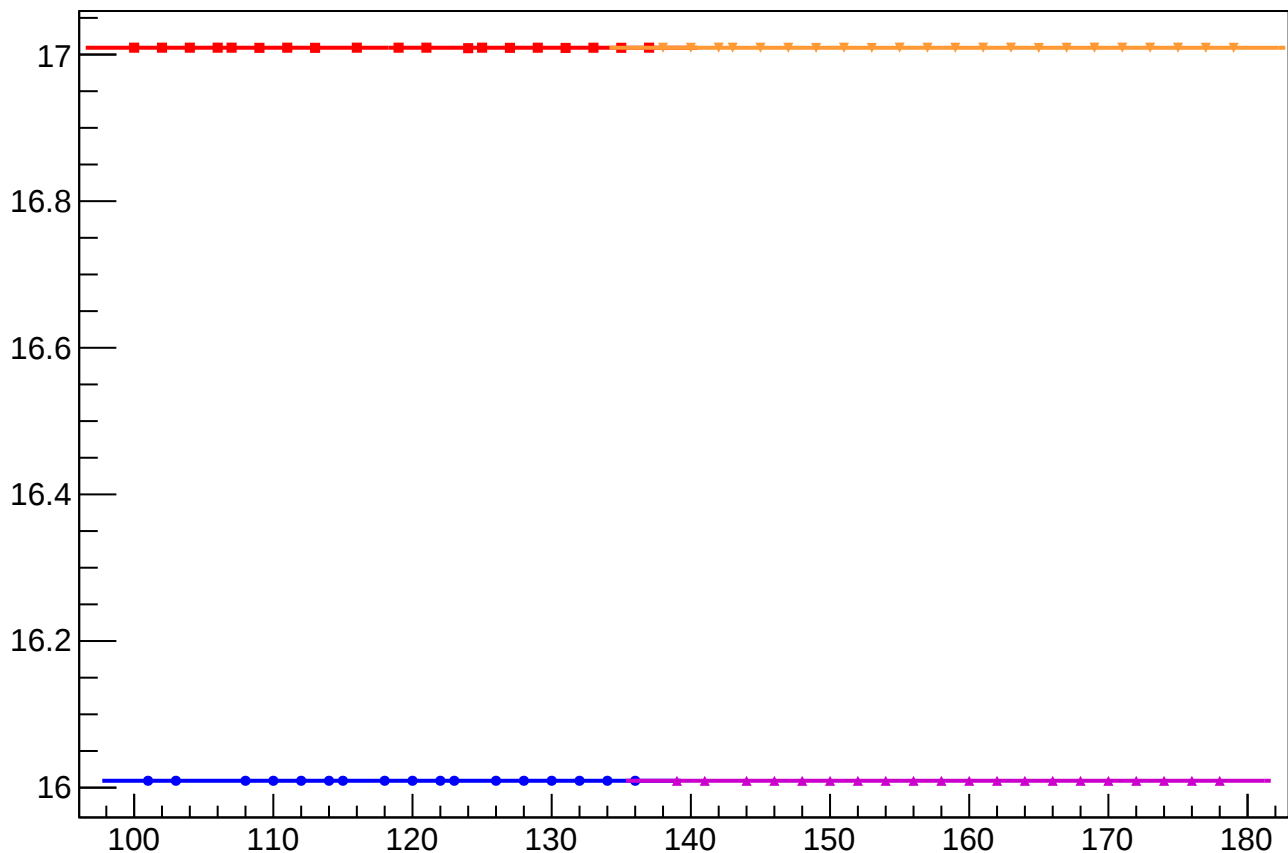
Out: 88.655+/-0.000

χ^2/NDF : 24710363481029399

All: 88.663+/-0.000

χ^2/NDF : 4858838498379

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 44327.7/16

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 23664779979825344967344128.0/21

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12516014336037541461884928.0/18

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127243494275687670349824.0/19

Left: 16.523 $\pm$ 0.000 χ^2 /NDF: 76750428163902340

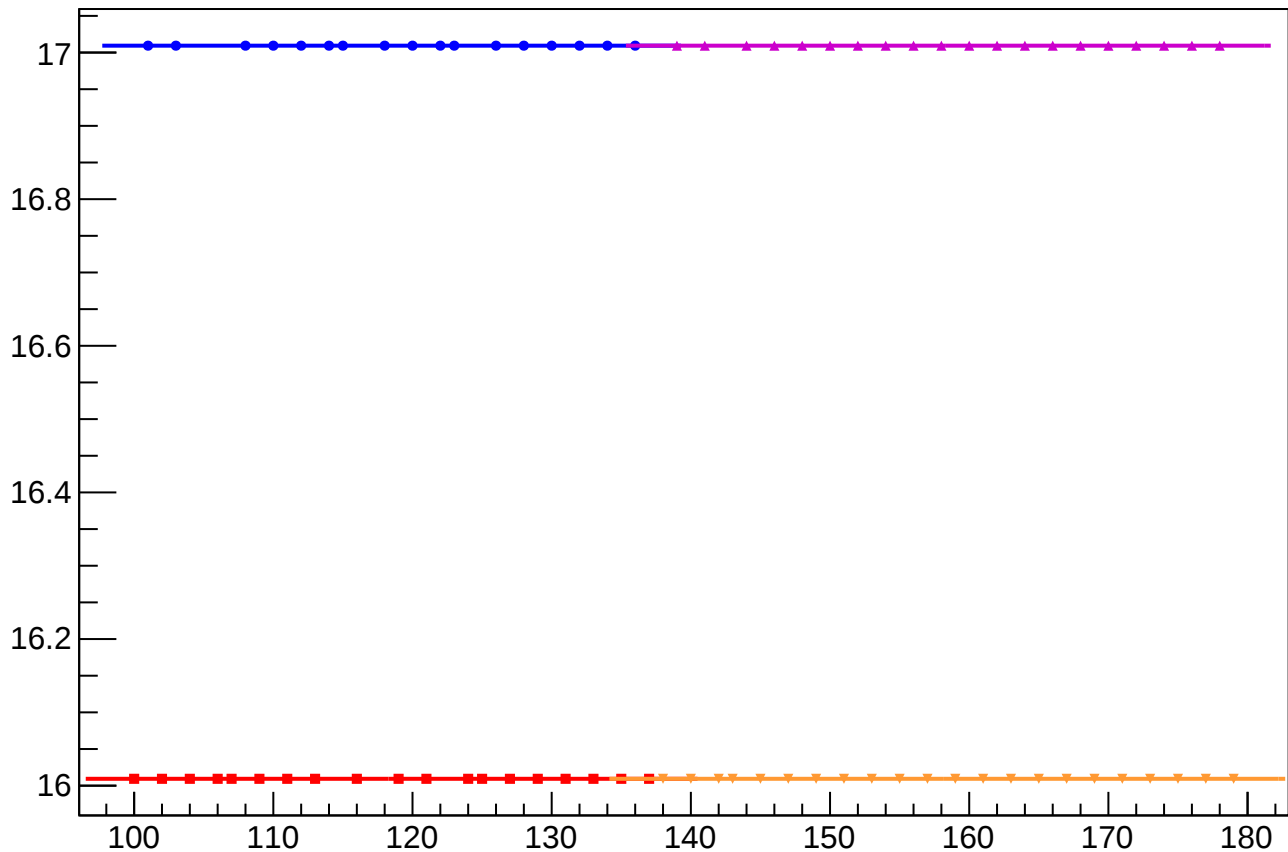
Right: 16.506 $\pm$ 0.000 χ^2 /NDF: 3289281212306816

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129248274183677884

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 36654100652963801

All: 16.518 $\pm$ 0.000 χ^2 /NDF: 1096684026096

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: 56368.8/21

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: 16.490 $\pm$ 0.000 χ^2 /NDF: 8112364443482852

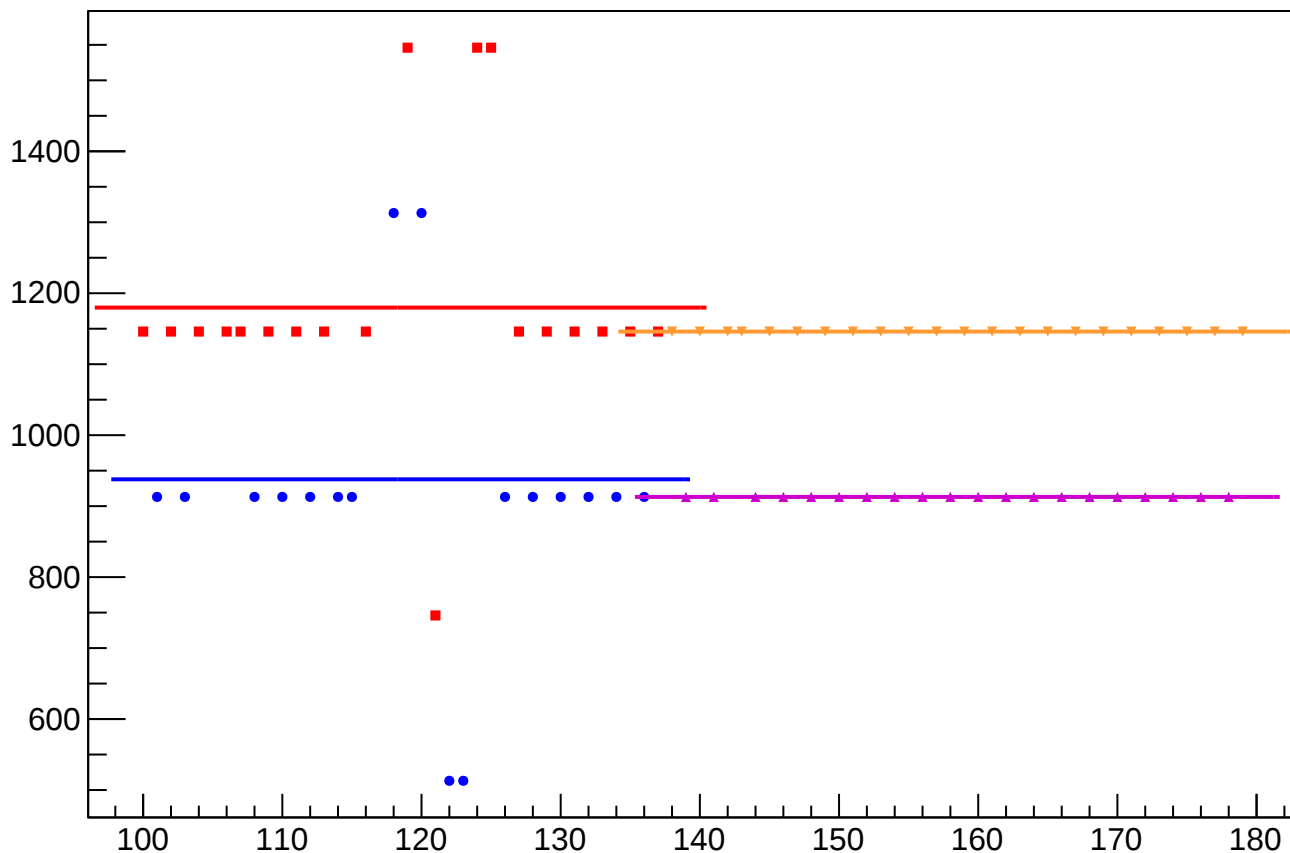
Right: 16.490 $\pm$ 0.000 χ^2 /NDF: 3437400145243126

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116170277947807415

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 421453.7/40

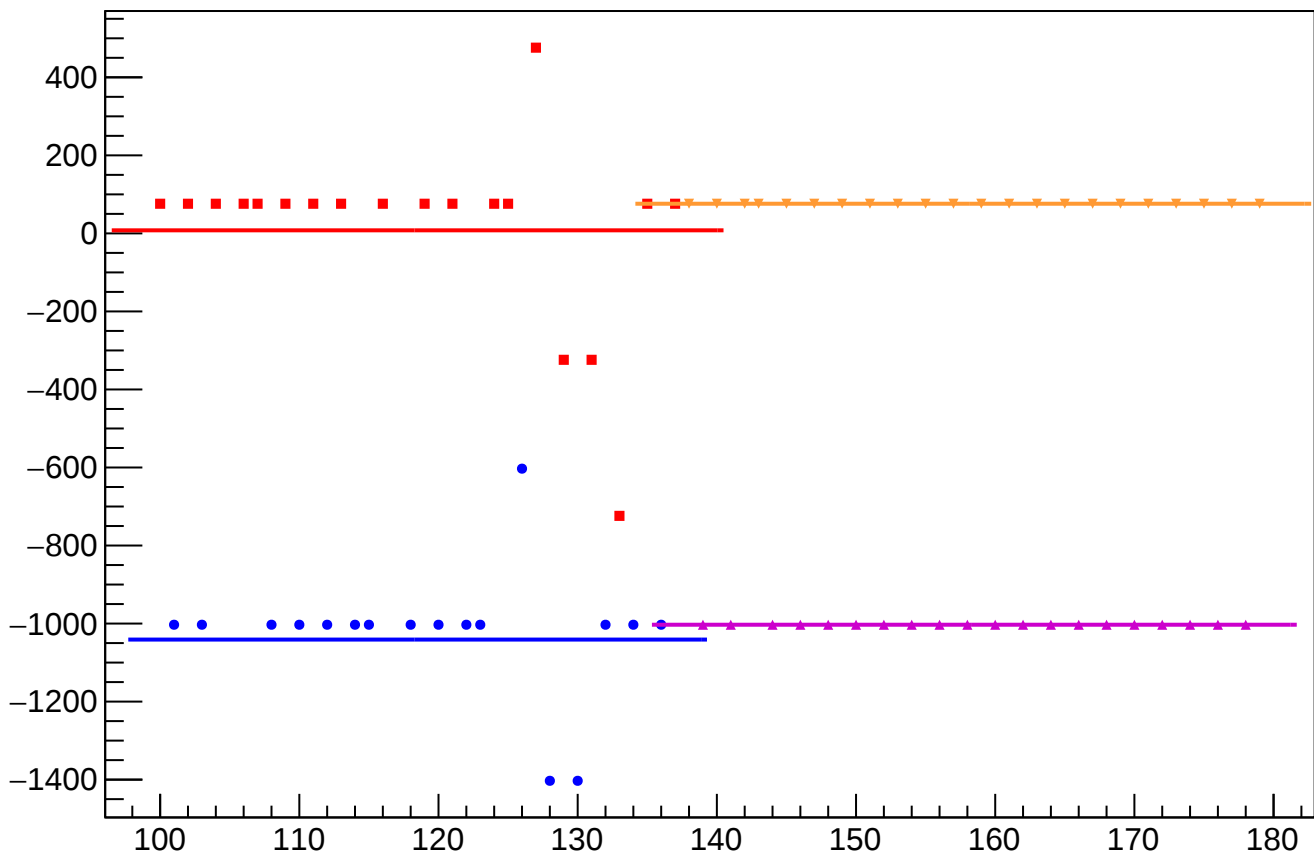
All: 16.490 $\pm$ 0.000 χ^2 /NDF: 1154976653457

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1033.586 +/- 0.000 χ^2/NDF : 448751284188510
 Right: 1061.185 +/- 0.000 χ^2/NDF : 62999129654777
 In: 920.503 +/- 0.000 χ^2/NDF : 21152203846437292
 Out: 1156.031 +/- 0.000 χ^2/NDF : 219961737738056
 All: 1041.855 +/- 0.000 χ^2/NDF : 10862966253.0/100

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030 $\pm$ 0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011 $\pm$ 0.000 χ^2/NDF : 10659535831061999505926782976.0/21
 Right Out: 7.865 $\pm$ 0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990 $\pm$ 0.000 χ^2/NDF : 2384136325690638587716960256.0/19
 All: -463.048 $\pm$ 0.000 χ^2/NDF : 14218283629