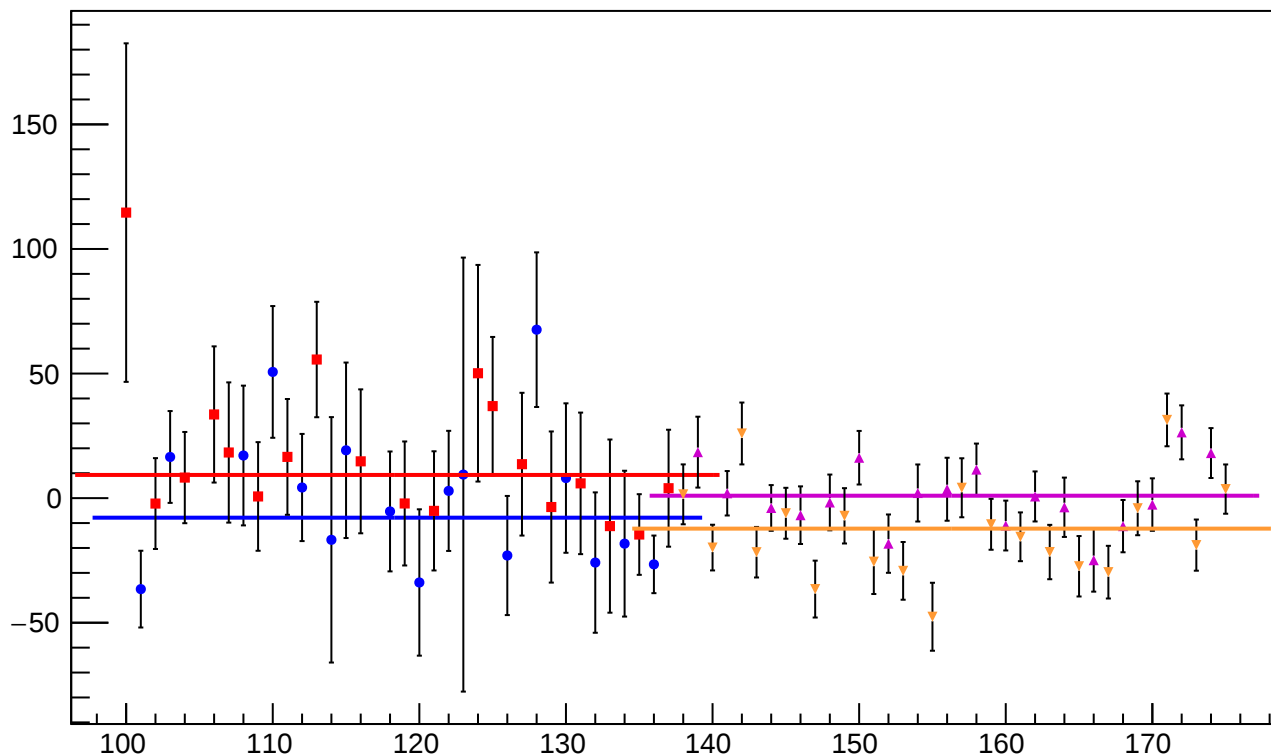


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.841 ± 5.608

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

Left Out: -12.234 ± 2.442

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

Right Out: 9.309 ± 5.677

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

Left In: 0.974 ± 2.551

$\chi^2/\text{NDF}: 23.8/17$

Left: -5.916 ± 1.764

$\chi^2/\text{NDF}: 92.8/37$

Right: 0.629 ± 3.990

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

In: -0.537 ± 2.322

$\chi^2/\text{NDF}: 48.5/34$

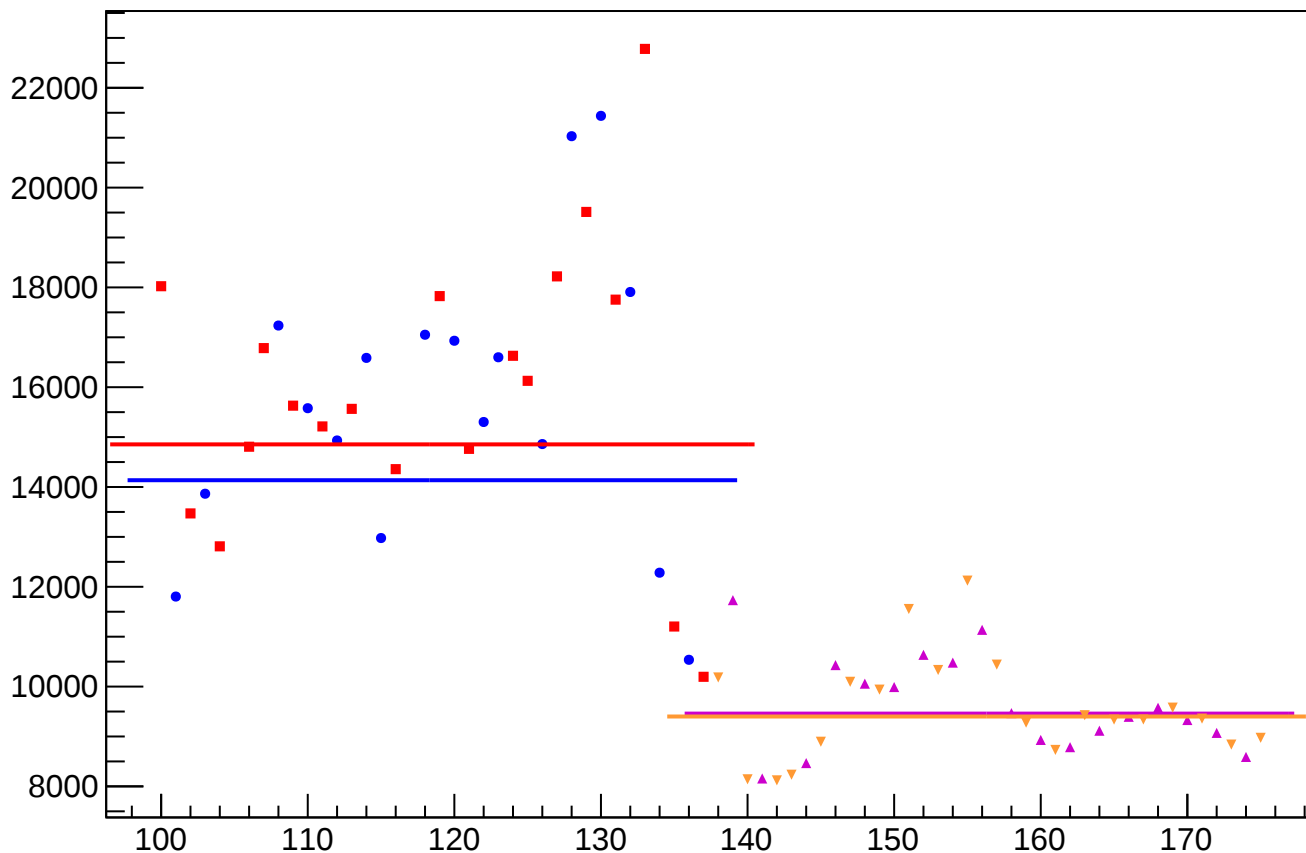
Out: -8.869 ± 2.244

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

All: -4.846 ± 1.613

$\chi^2/\text{NDF}: 135.5/73$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14135.800 ± 3.966 χ^2/NDF : 597179.4/16

Left Out: 9400.329 ± 1.727 χ^2/NDF : 294178.9/19

Right Out: 14854.033 ± 4.014 χ^2/NDF : 472017.6/18

Left In: 9458.360 ± 1.804 χ^2/NDF : 247635.0/17

Left: 9428.088 ± 1.247 χ^2/NDF : 542353.9/37

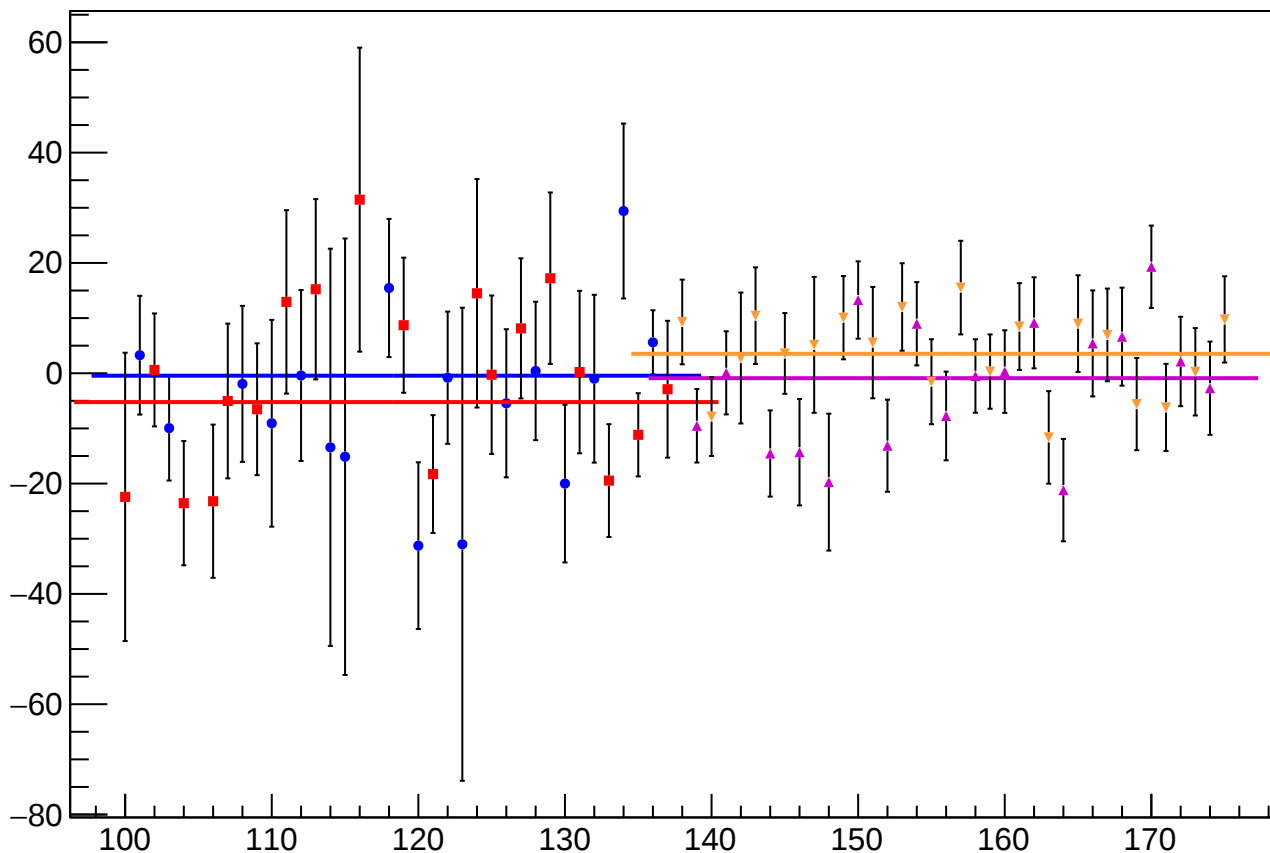
Right: 14490.533 ± 2.821 χ^2/NDF : 1085397.6/35

In: 10260.026 ± 1.642 χ^2/NDF : 1997554.3/34

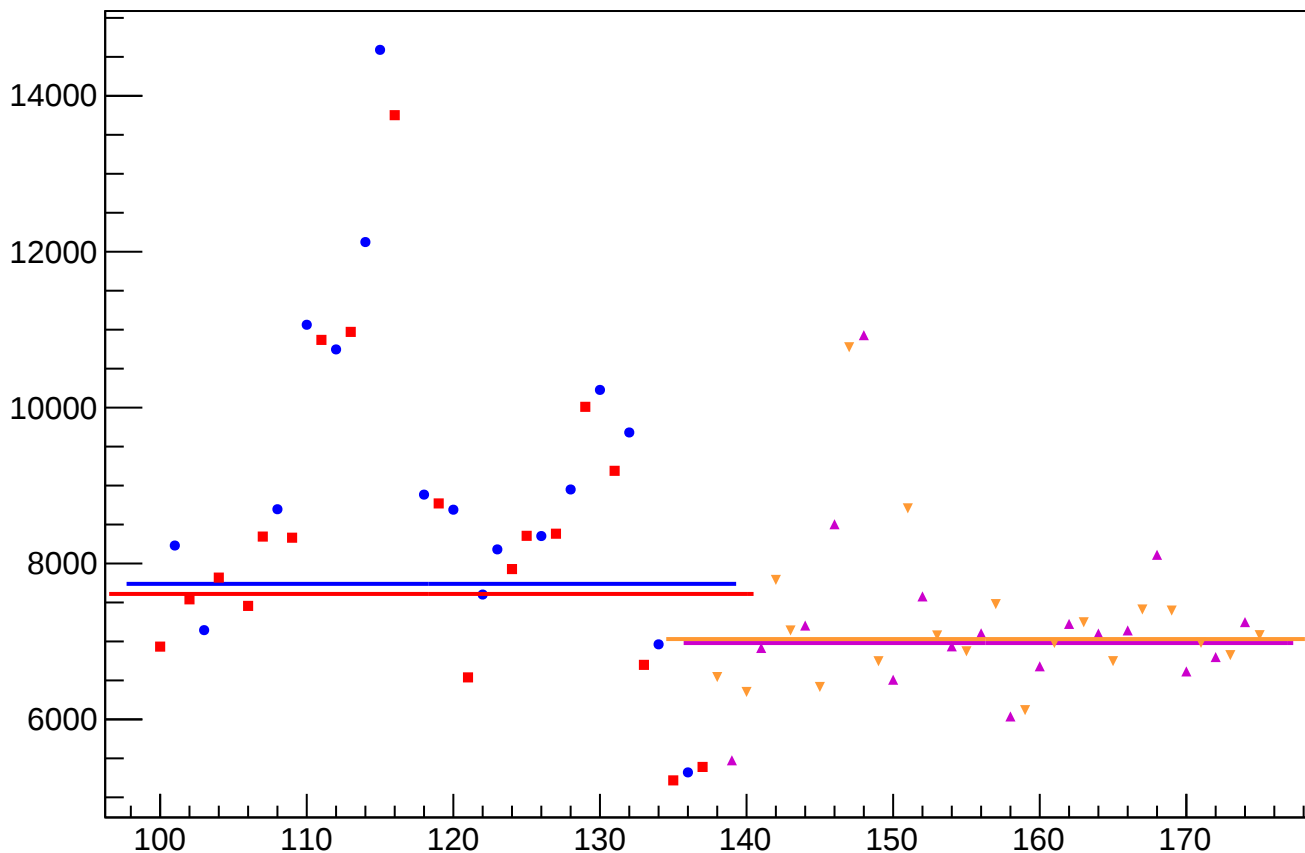
Out: 10252.096 ± 1.586 χ^2/NDF : 2323568.1/38

All: 10255.925 ± 1.141 χ^2/NDF : 4321134.4/7

diff_bpm4aY_mean vs Slug, Sign Corrected



diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7030.644 $\pm$ 1.295 χ^2 /NDF:347370.2/19

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

Left In: 6979.437 $\pm$ 1.339 χ^2 /NDF:462277.0/17

Left: 7005.900 $\pm$ 0.931 χ^2 /NDF: 810402.7/37

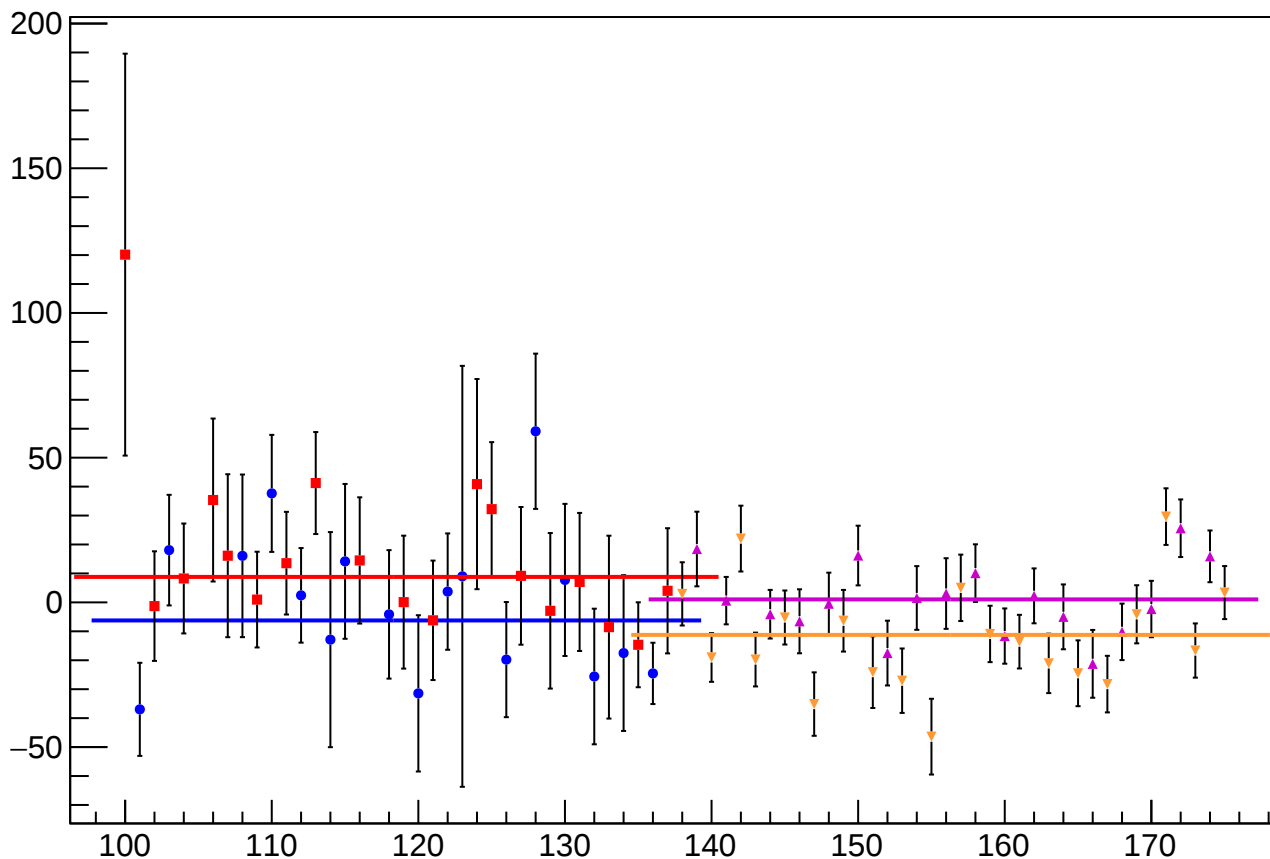
Right: 7671.298 $\pm$ 1.501 χ^2 /NDF: 1421871.4/35

In: 7188.691 $\pm$ 1.140 χ^2 /NDF:1291721.9/34

Out: 7192.806 $\pm$ 1.099 χ^2 /NDF:1082528.3/38

All: 7190.824 $\pm$ 0.791 χ^2 /NDF: 2374257.0/73

diff_bpm4eX_mean vs Slug, Sign Corrected



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

Left Out: -11.234 ± 2.282 $\chi^2/\text{NDF}: 55.9/19$

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

Left In: 1.033 ± 2.388 $\chi^2/\text{NDF}: 24.4/17$

Left: -5.377 ± 1.650 $\chi^2/\text{NDF}: 94.1/37$

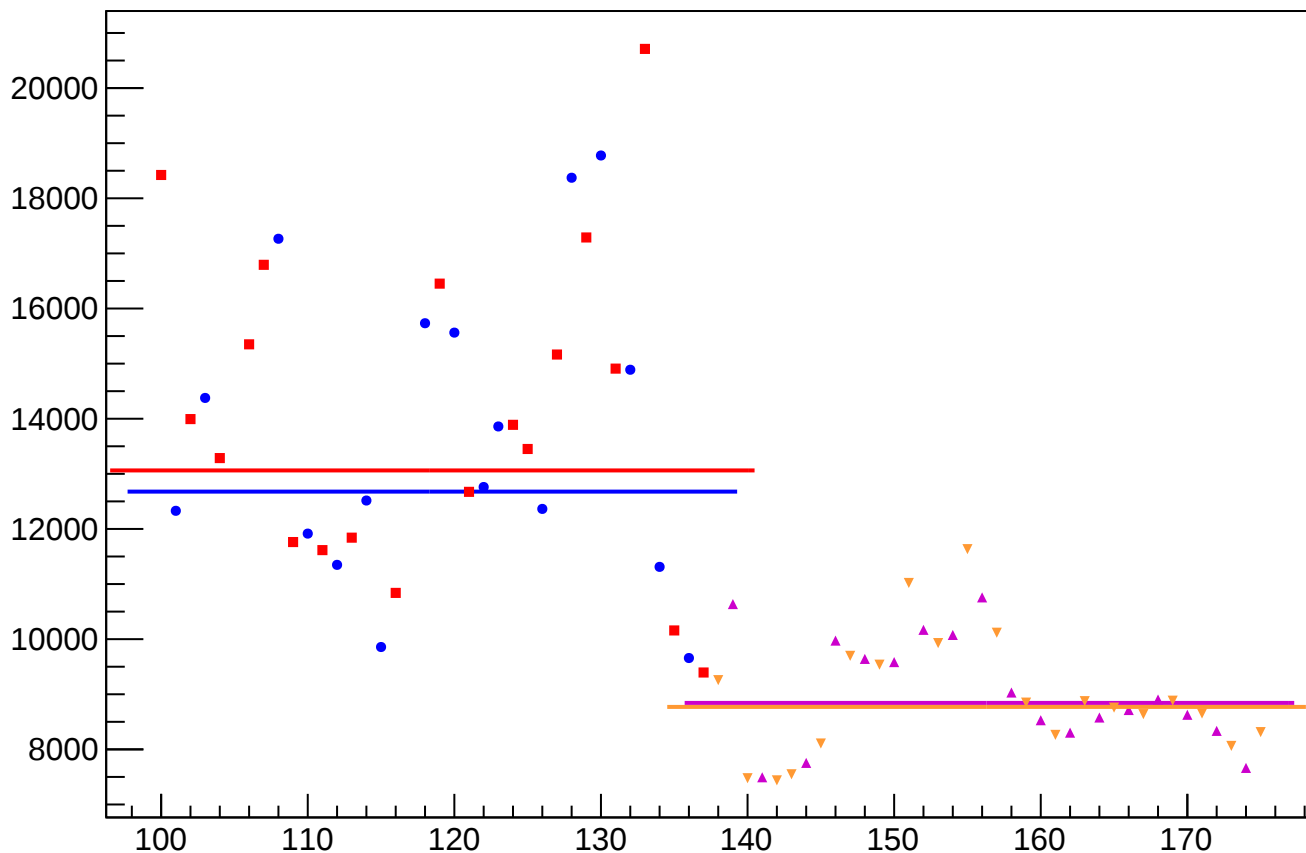
Right: 1.306 ± 3.541 $\chi^2/\text{NDF}: 40.9/35$

In: -0.311 ± 2.156 $\chi^2/\text{NDF}: 49.4/34$

Out: -7.778 ± 2.076 $\chi^2/\text{NDF}: 82.3/38$

All: -4.185 ± 1.496 $\chi^2/\text{NDF}: 137.9/73$

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8770.480 $\pm$ 1.614 χ^2 /NDF: 382570.9/19

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

Left In: 8843.012 $\pm$ 1.688 χ^2 /NDF: 323069.8/17

Left: 8805.110 $\pm$ 1.167 χ^2 /NDF: 706605.1/37

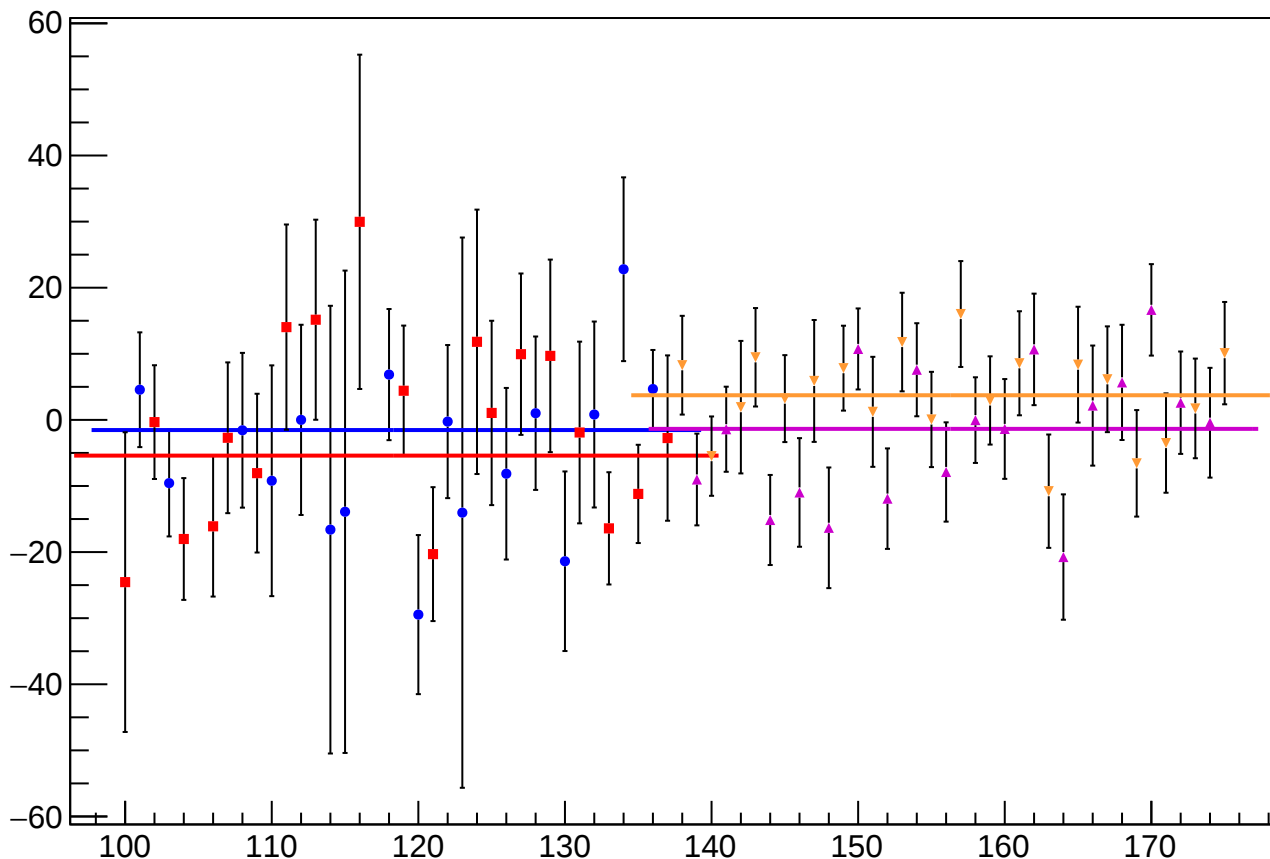
Right: 12870.370 $\pm$ 2.504 χ^2 /NDF: 1056923.6/35

In: 9551.141 $\pm$ 1.525 χ^2 /NDF: 1829102.0/34

Out: 9510.683 $\pm$ 1.468 χ^2 /NDF: 2099489.0/38

All: 9530.149 $\pm$ 1.058 χ^2 /NDF: 3928956.4/73

diff_bpm4eY_mean vs Slug, Sign Corrected



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

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

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

Left In: -1.358 ± 1.771 χ^2/NDF : 31.7/17

Left: 1.296 ± 1.224 χ^2/NDF : 50.6/37

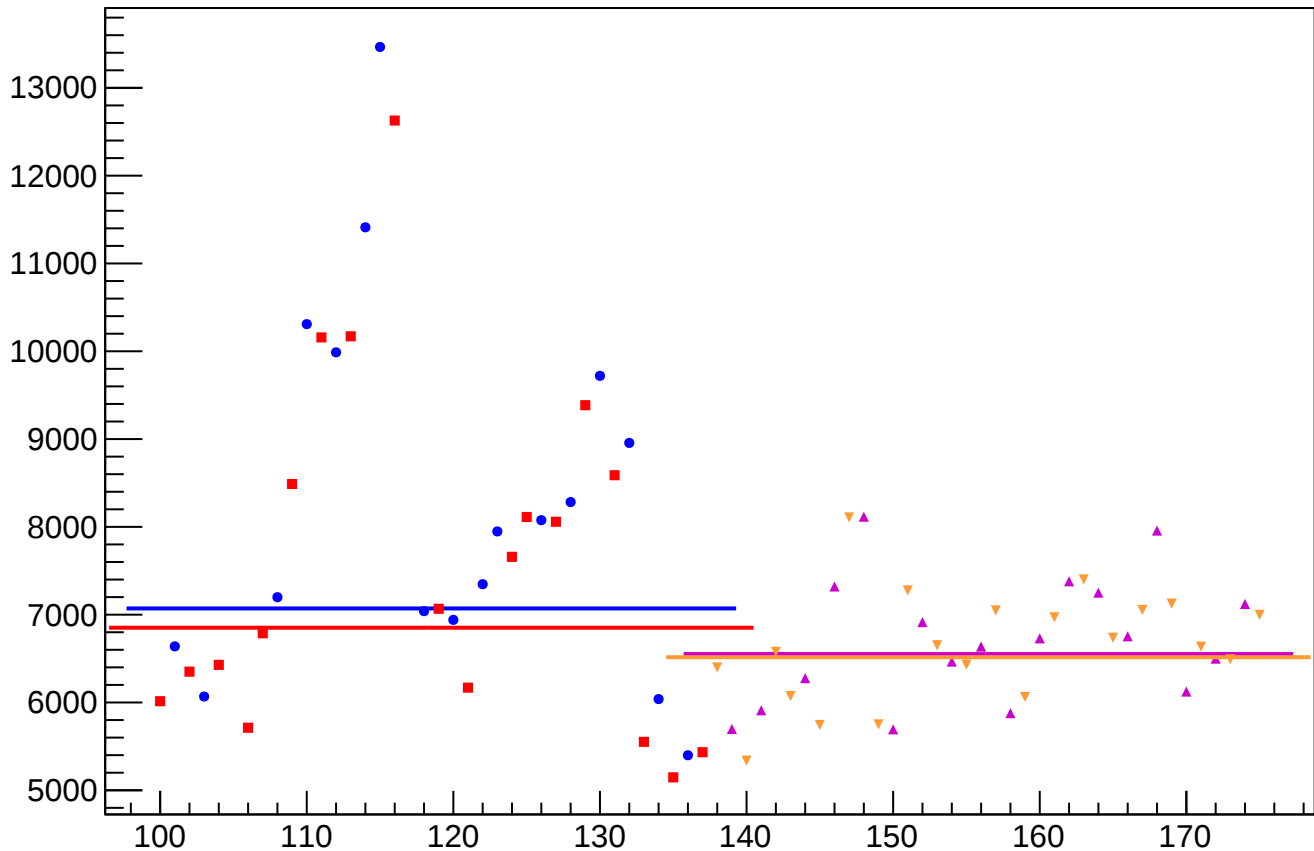
Right: -3.578 ± 1.918 χ^2/NDF : 34.4/35

In: -1.409 ± 1.495 χ^2/NDF : 46.5/34

Out: 1.062 ± 1.426 χ^2/NDF : 41.7/38

All: -0.115 ± 1.032 χ^2/NDF : 89.6/73

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7071.043 ± 1.973 $\chi^2/\text{NDF}: 600748.1/16$

Left Out: 6515.559 ± 1.198 $\chi^2/\text{NDF}: 294001.3/19$

Right Out: 6851.604 ± 1.866 $\chi^2/\text{NDF}: 684398.7/18$

Left In: 6552.616 ± 1.252 $\chi^2/\text{NDF}: 296975.7/17$

Left: 6533.274 ± 0.866 $\chi^2/\text{NDF}: 591434.2/37$

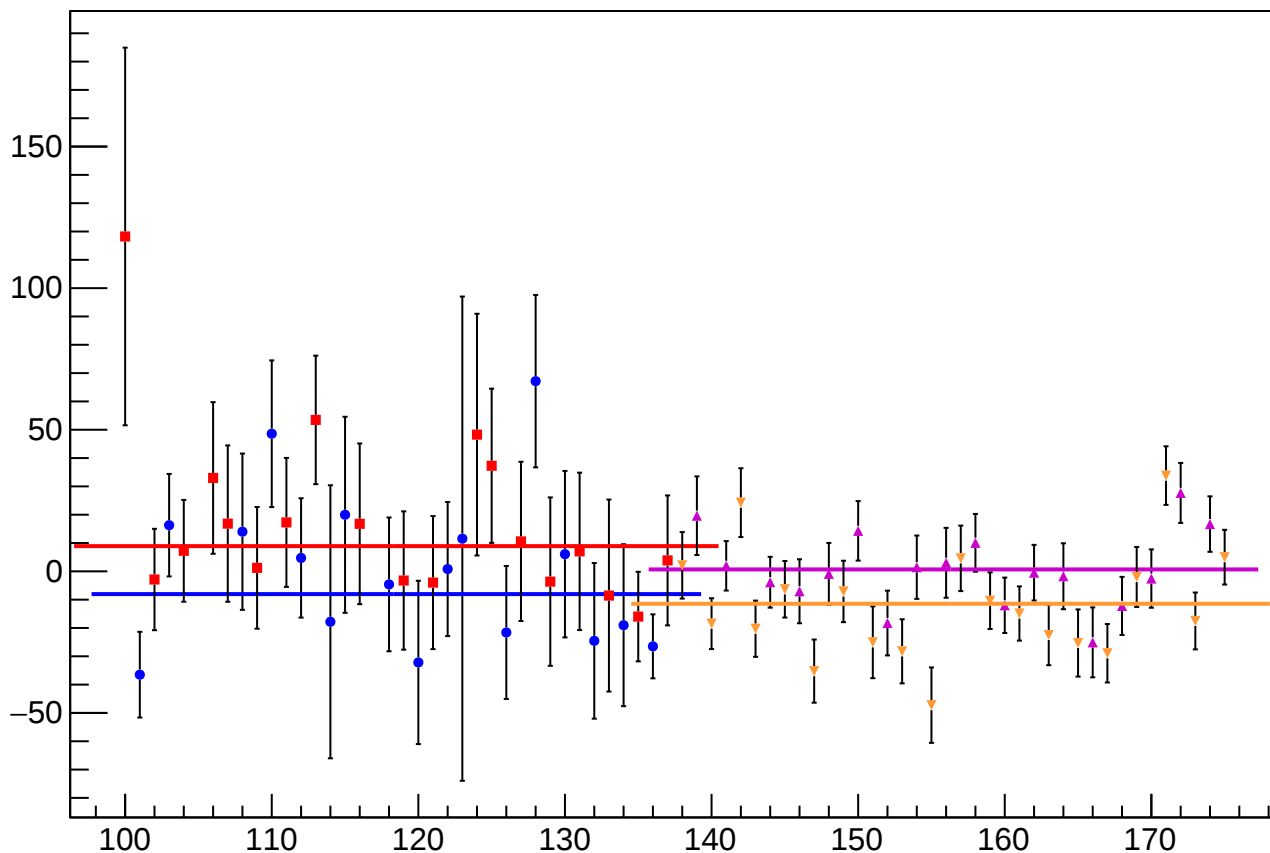
Right: 6955.236 ± 1.356 $\chi^2/\text{NDF}: 1291674.4/35$

In: 6701.451 ± 1.057 $\chi^2/\text{NDF}: 946940.8/34$

Out: 6613.638 ± 1.008 $\chi^2/\text{NDF}: 1001354.1/38$

All: 6655.469 ± 0.730 $\chi^2/\text{NDF}: 1951907.6/73$

diff_bpm4acX_mean vs Slug, Sign Corrected



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

Left Out: -11.445 $\pm$ 2.388 χ^2/NDF : 57.5/19

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

Left In: 0.676 $\pm$ 2.493 χ^2/NDF : 24.9/17

Left: -5.647 $\pm$ 1.724 χ^2/NDF : 94.7/37

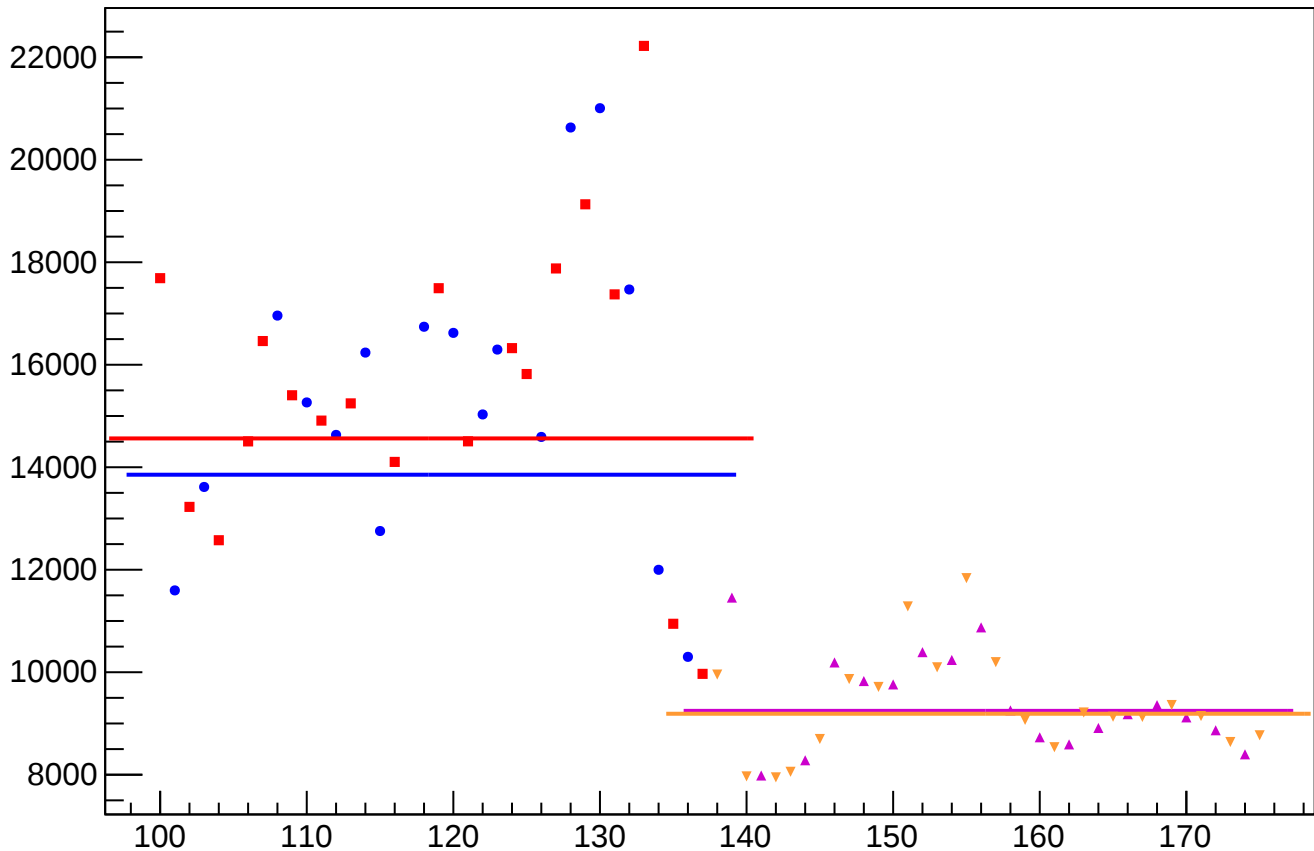
Right: 0.330 $\pm$ 3.911 χ^2/NDF : 41.0/35

In: -0.810 $\pm$ 2.271 χ^2/NDF : 49.5/34

Out: -8.283 $\pm$ 2.194 χ^2/NDF : 82.5/38

All: -4.674 $\pm$ 1.578 χ^2/NDF : 137.6/73

diff_bpm4acX_rms vs Slug, Sign Corrected



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

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

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

Left In: 9245.953 $\pm$ 1.763 χ^2 /NDF: 244907.6/17

Left: 9216.629 $\pm$ 1.219 χ^2 /NDF: 536502.5/37

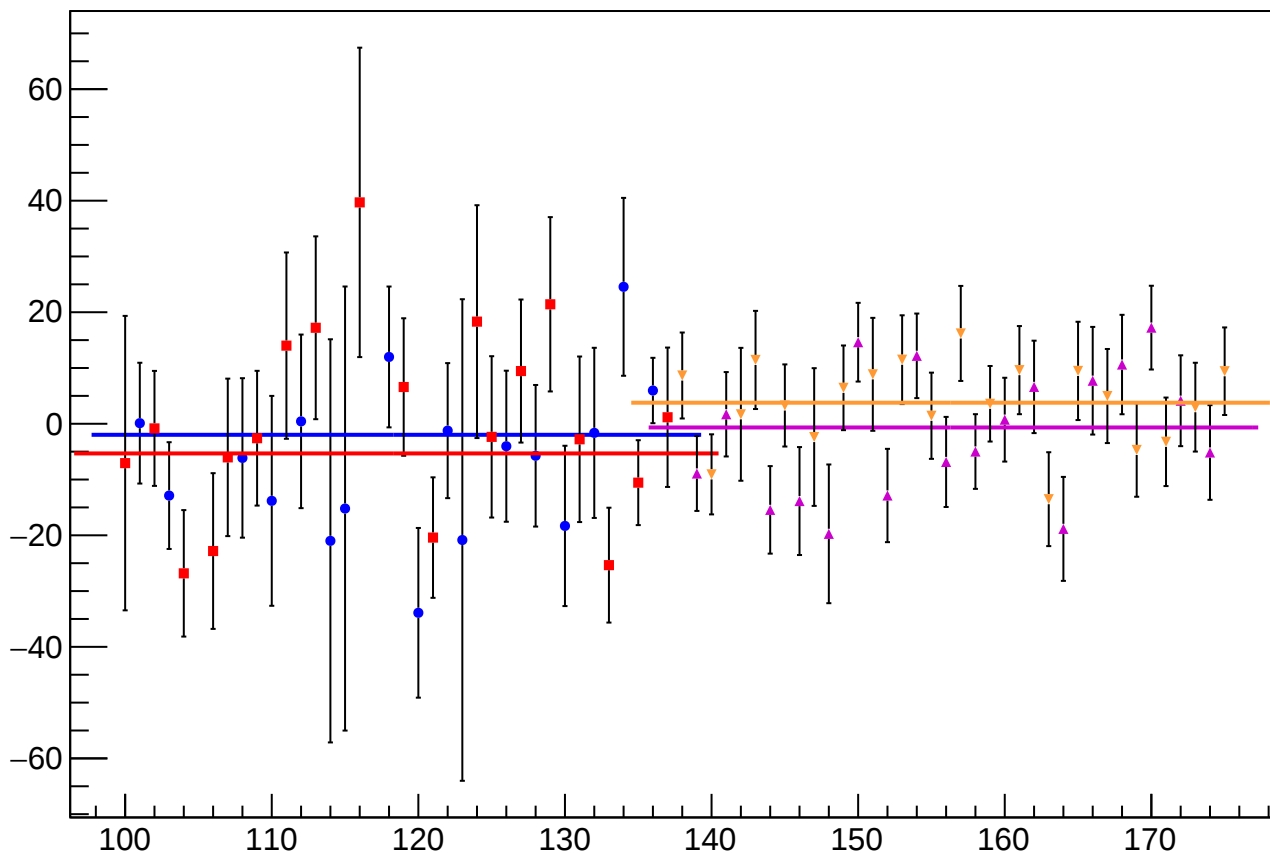
Right: 14203.845 $\pm$ 2.766 χ^2 /NDF: 1091628.8/35

In: 10032.089 $\pm$ 1.606 χ^2 /NDF: 2011481.8/34

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

All: 10028.215 $\pm$ 1.116 χ^2 /NDF: 4350588.9/77

diff_bpm4acY_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.664 ± 1.903 χ^2/NDF : 33.3/17

Left: 1.631 ± 1.322 χ^2/NDF : 51.9/37

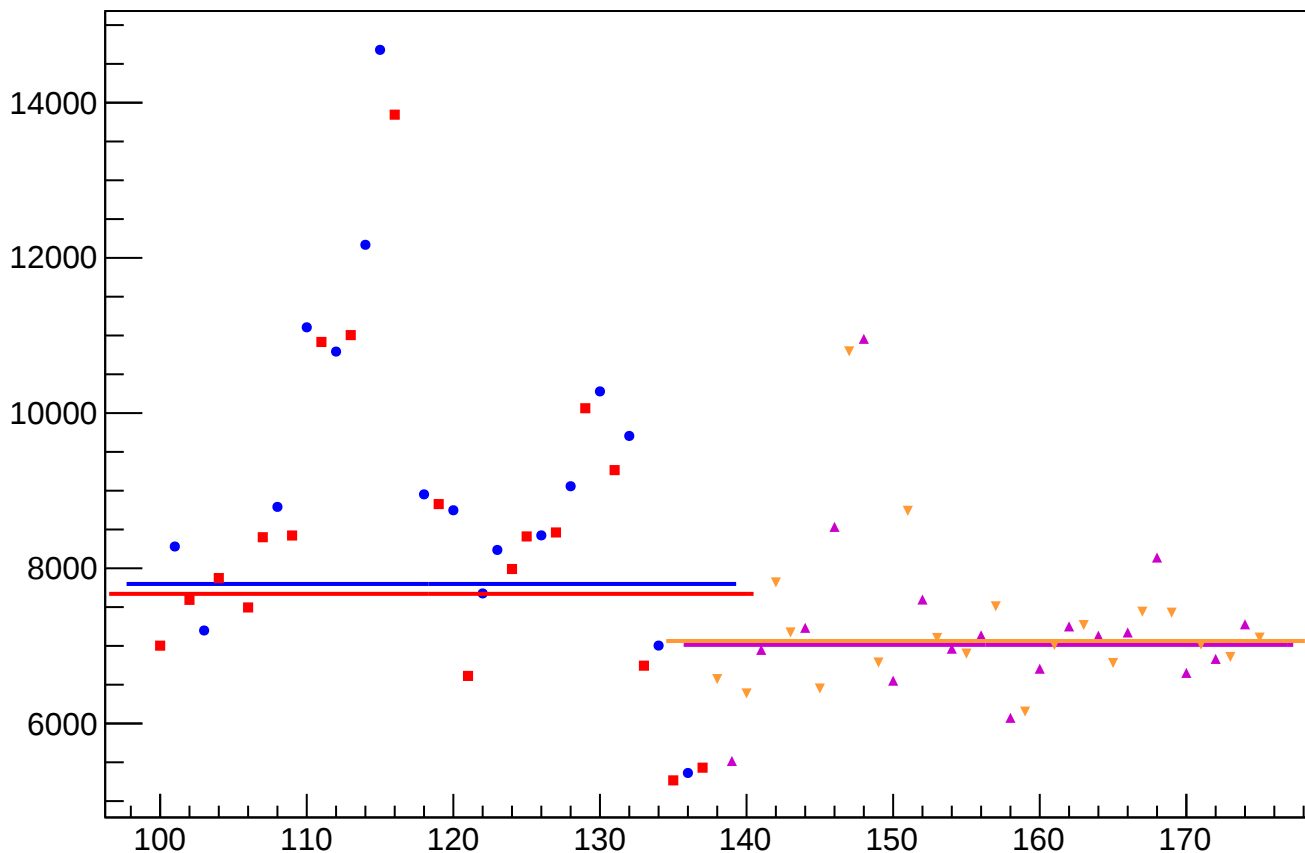
Right: -3.723 ± 2.138 χ^2/NDF : 39.0/35

In: -1.025 ± 1.621 χ^2/NDF : 47.5/34

Out: 1.241 ± 1.562 χ^2/NDF : 46.8/38

All: 0.150 ± 1.125 χ^2/NDF : 95.3/73

diff_bpm4acY_rms vs Slug, Sign Corrected



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

Left Out: 7062.940 $\pm$ 1.301 χ^2 /NDF:343434.6/19

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

Left In: 7013.020 $\pm$ 1.345 χ^2 /NDF:455194.0/17

Left: 7038.822 $\pm$ 0.935 χ^2 /NDF: 799340.3/37

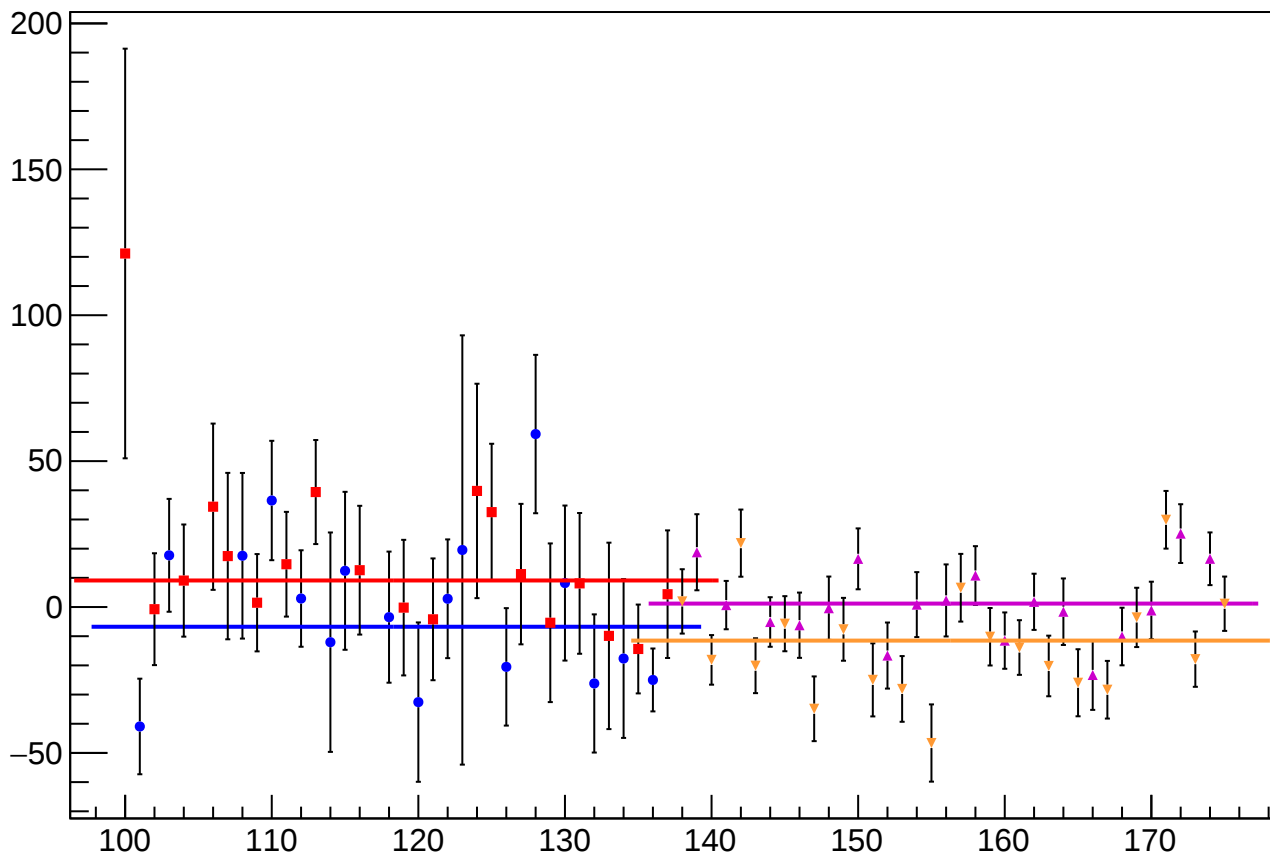
Right: 7731.569 $\pm$ 1.512 χ^2 /NDF: 1410753.9/35

In: 7228.496 $\pm$ 1.146 χ^2 /NDF:1284955.4/34

Out: 7232.358 $\pm$ 1.105 χ^2 /NDF:1076971.9/38

All: 7230.498 $\pm$ 0.795 χ^2 /NDF: 2361933.2/73

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.180 $\pm$ 2.417 χ^2/NDF : 24.3/17

Left: -5.453 $\pm$ 1.669 χ^2/NDF : 93.5/37

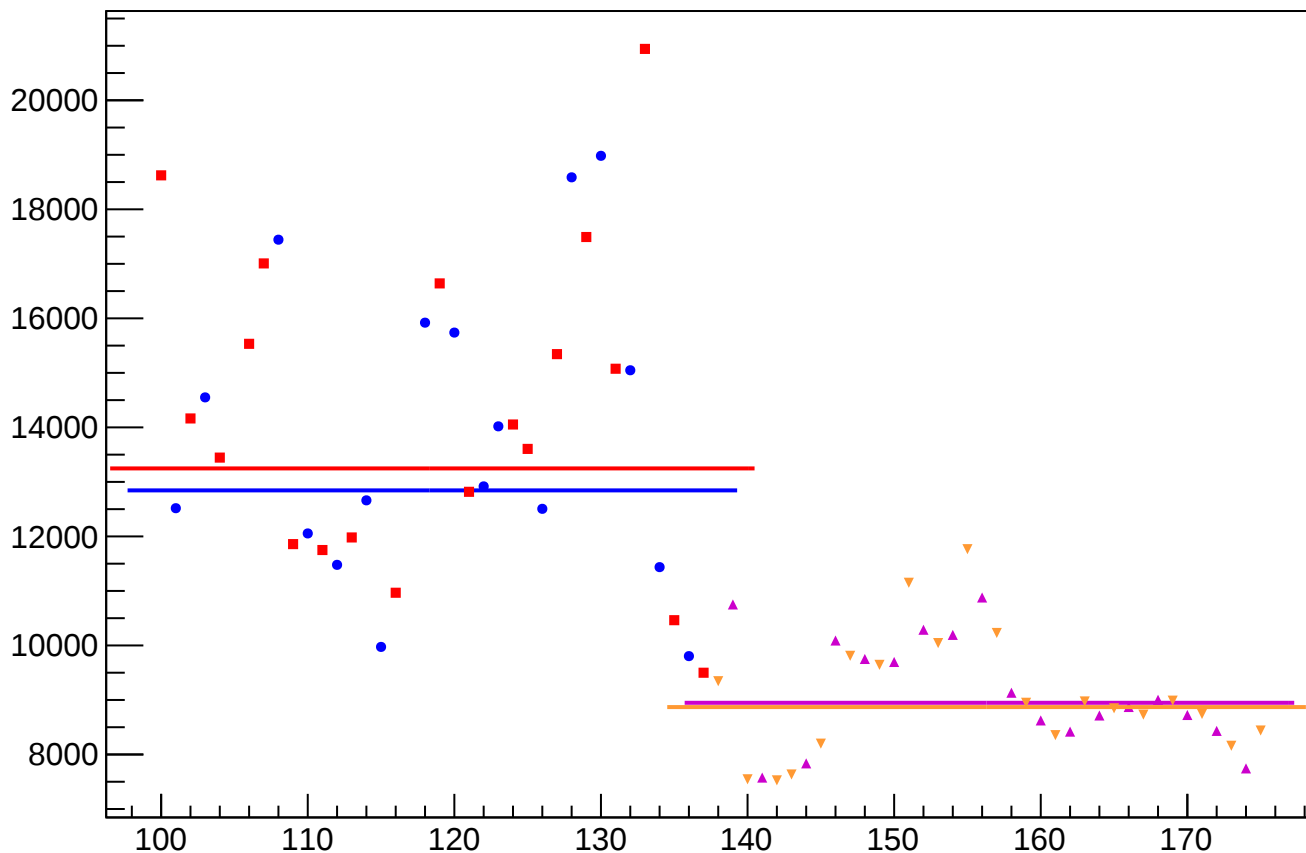
Right: 1.193 $\pm$ 3.590 χ^2/NDF : 40.8/35

In: -0.283 $\pm$ 2.183 χ^2/NDF : 50.0/34

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

All: -4.272 $\pm$ 1.514 χ^2/NDF : 137.1/73

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

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

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

Left In: 8948.180+/-1.709 χ^2/NDF : 323311.0/17

Left: 8906.958+/-1.180 χ^2/NDF : 707535.9/37

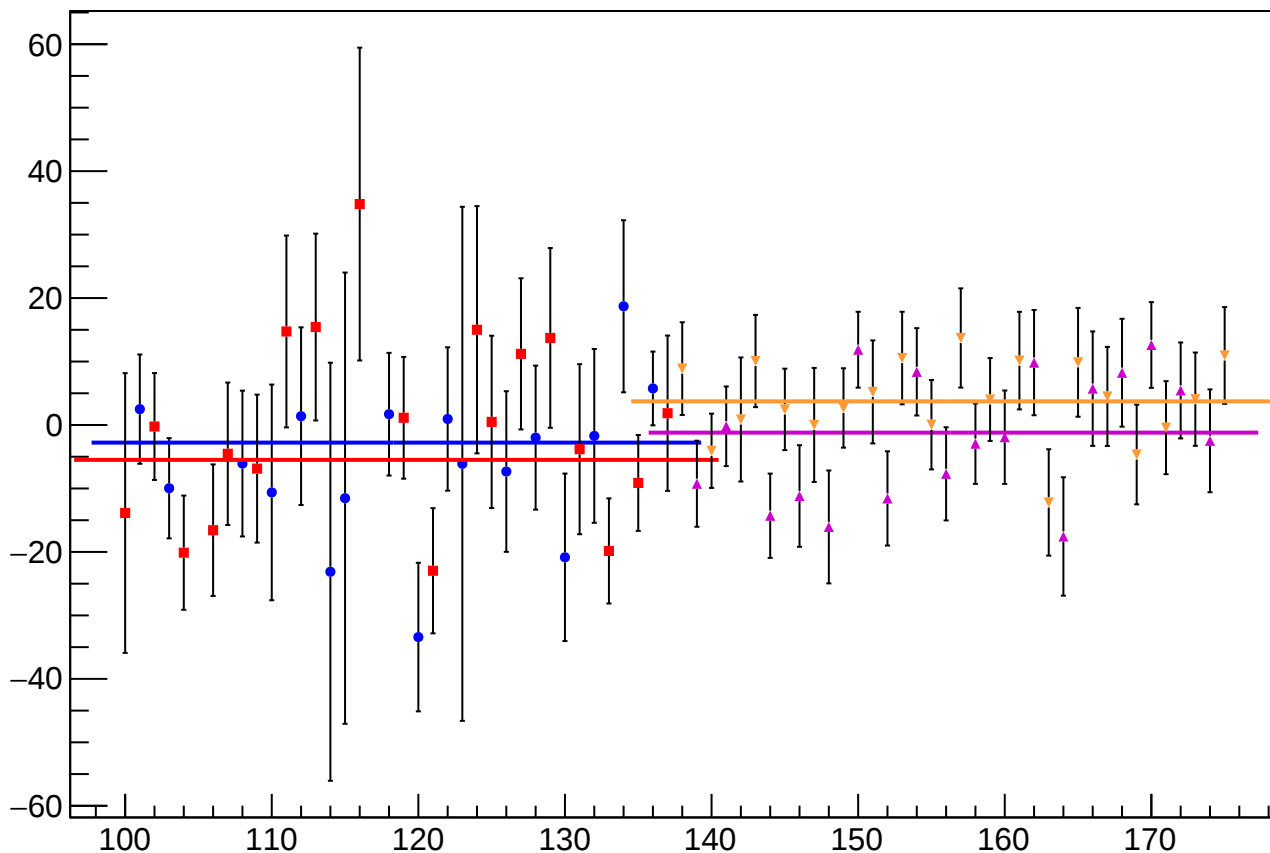
Right: 13046.351+/-2.539 χ^2/NDF : 1039049.9/35

In: 9666.199+/-1.543 χ^2/NDF : 1828448.7/34

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

All: 9642.674+/-1.070 χ^2/NDF : 3932501.6/73

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

Left Out: 3.725 ± 1.655 $\chi^2/\text{NDF}: 13.4/19$

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

Left In: -1.201 ± 1.730 $\chi^2/\text{NDF}: 30.9/17$

Left: 1.372 ± 1.196 $\chi^2/\text{NDF}: 48.5/37$

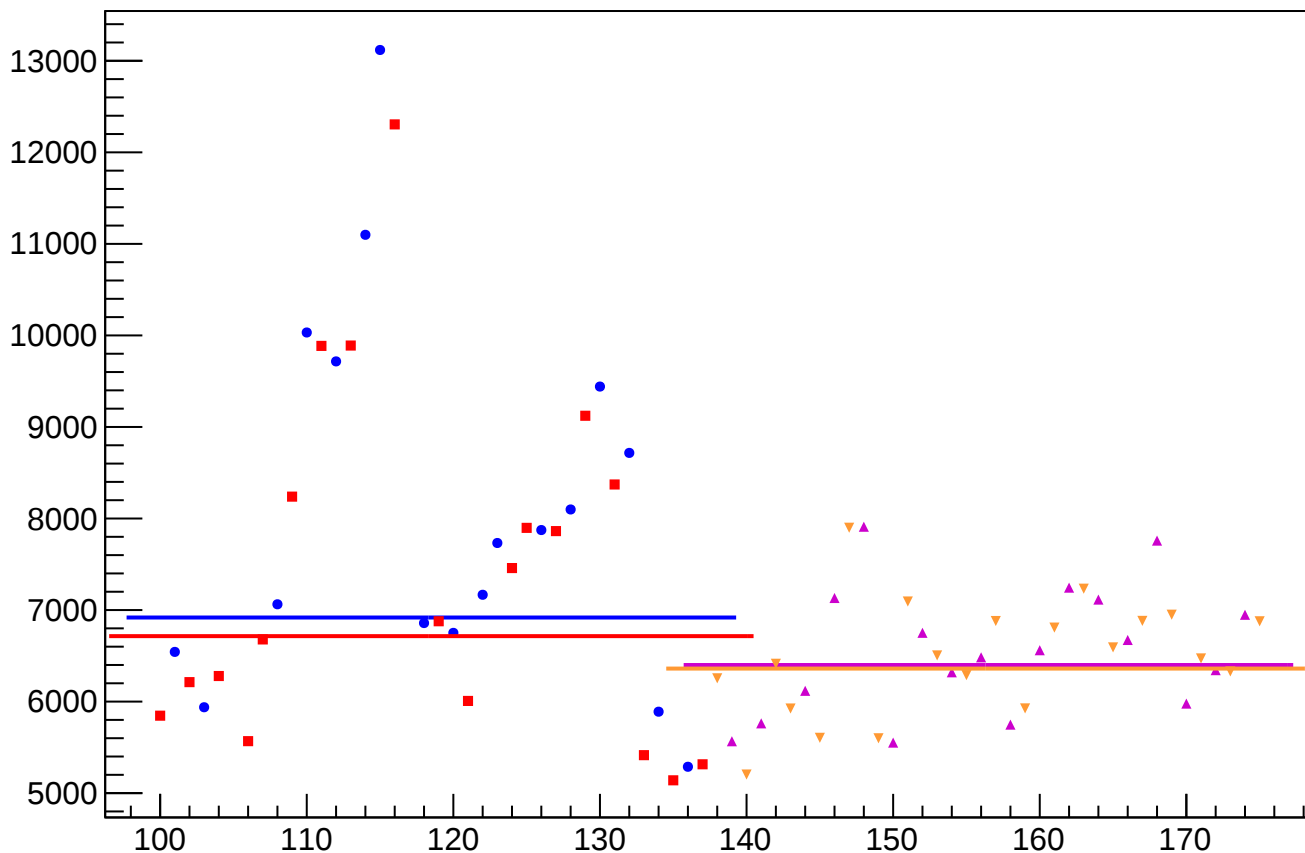
Right: -4.206 ± 1.879 $\chi^2/\text{NDF}: 39.6/35$

In: -1.651 ± 1.462 $\chi^2/\text{NDF}: 47.0/34$

Out: 1.050 ± 1.394 $\chi^2/\text{NDF}: 45.5/38$

All: -0.237 ± 1.009 $\chi^2/\text{NDF}: 94.3/73$

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

Left Out: 6360.677 ± 1.170 $\chi^2/\text{NDF}: 296784.5/19$

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

Left In: 6399.526 ± 1.223 $\chi^2/\text{NDF}: 298772.6/17$

Left: 6379.236 ± 0.846 $\chi^2/\text{NDF}: 596083.9/37$

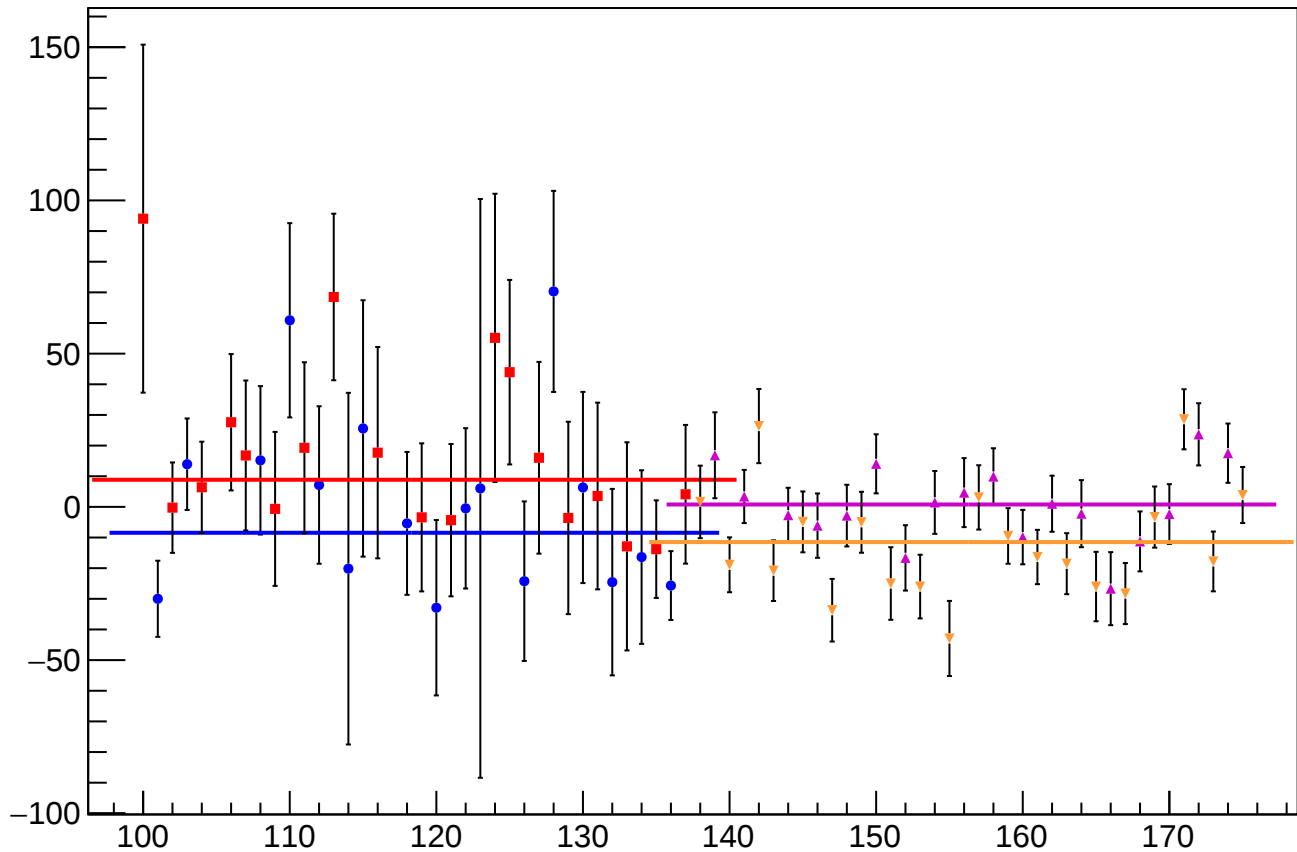
Right: 6811.237 ± 1.328 $\chi^2/\text{NDF}: 1248897.6/35$

In: 6548.087 ± 1.033 $\chi^2/\text{NDF}: 937330.4/34$

Out: 6463.517 ± 0.986 $\chi^2/\text{NDF}: 979418.3/38$

All: 6503.800 ± 0.713 $\chi^2/\text{NDF}: 1920255.3/73$

diff_bpm1X_mean vs Slug, Sign Corrected



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

Left Out: -11.482 ± 2.268 $\chi^2/\text{NDF}: 55.9/19$

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

Left In: 0.779 ± 2.358 $\chi^2/\text{NDF}: 24.3/17$

Left: -5.589 ± 1.635 $\chi^2/\text{NDF}: 94.3/37$

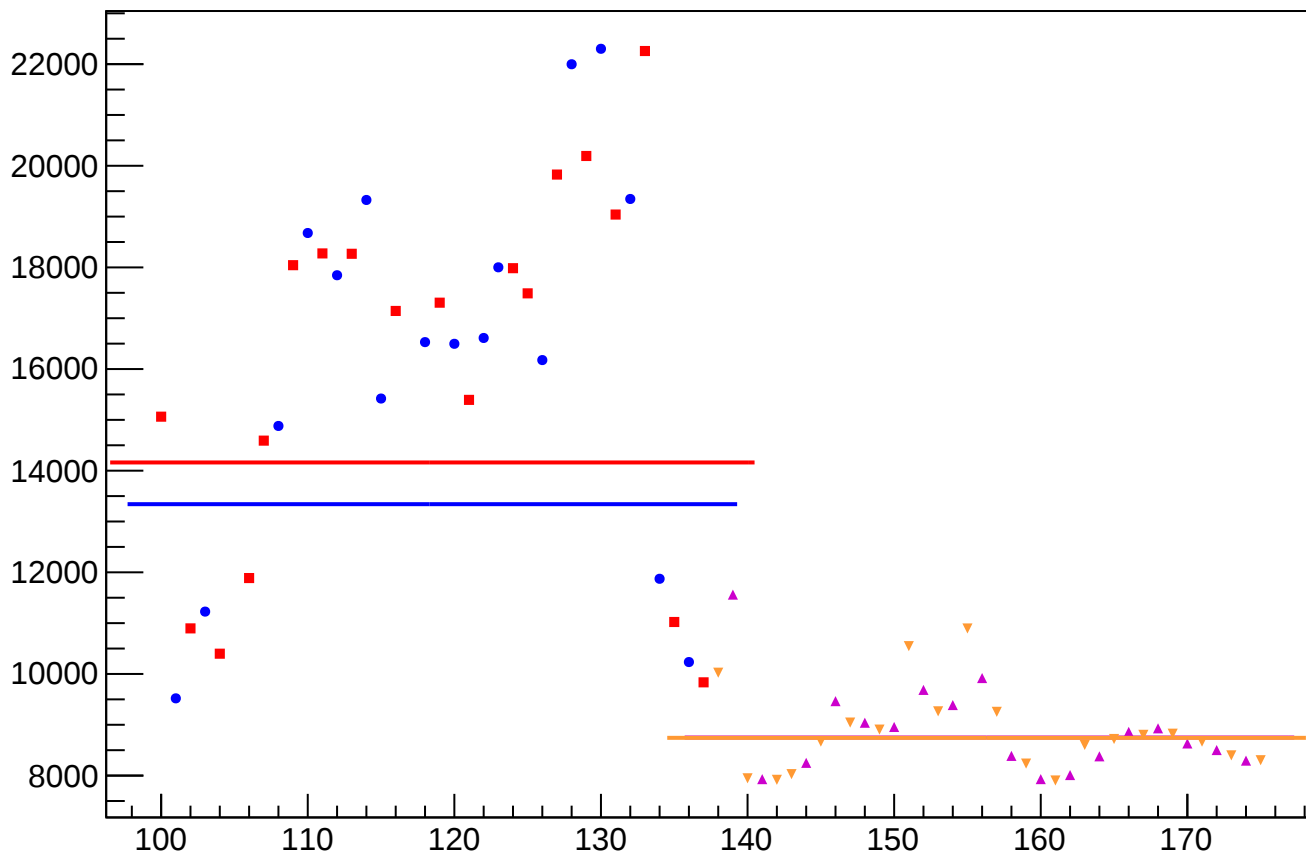
Right: 0.019 ± 3.854 $\chi^2/\text{NDF}: 41.3/35$

In: -0.701 ± 2.160 $\chi^2/\text{NDF}: 48.8/34$

Out: -8.534 ± 2.097 $\chi^2/\text{NDF}: 81.8/38$

All: -4.734 ± 1.505 $\chi^2/\text{NDF}: 137.3/73$

diff_bpm1X_rms vs Slug, Sign Corrected



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

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

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

Left In: 8749.434 $\pm$ 1.667 χ^2 /NDF: 203382.7/17

Left: 8746.062 $\pm$ 1.156 χ^2 /NDF: 414665.6/37

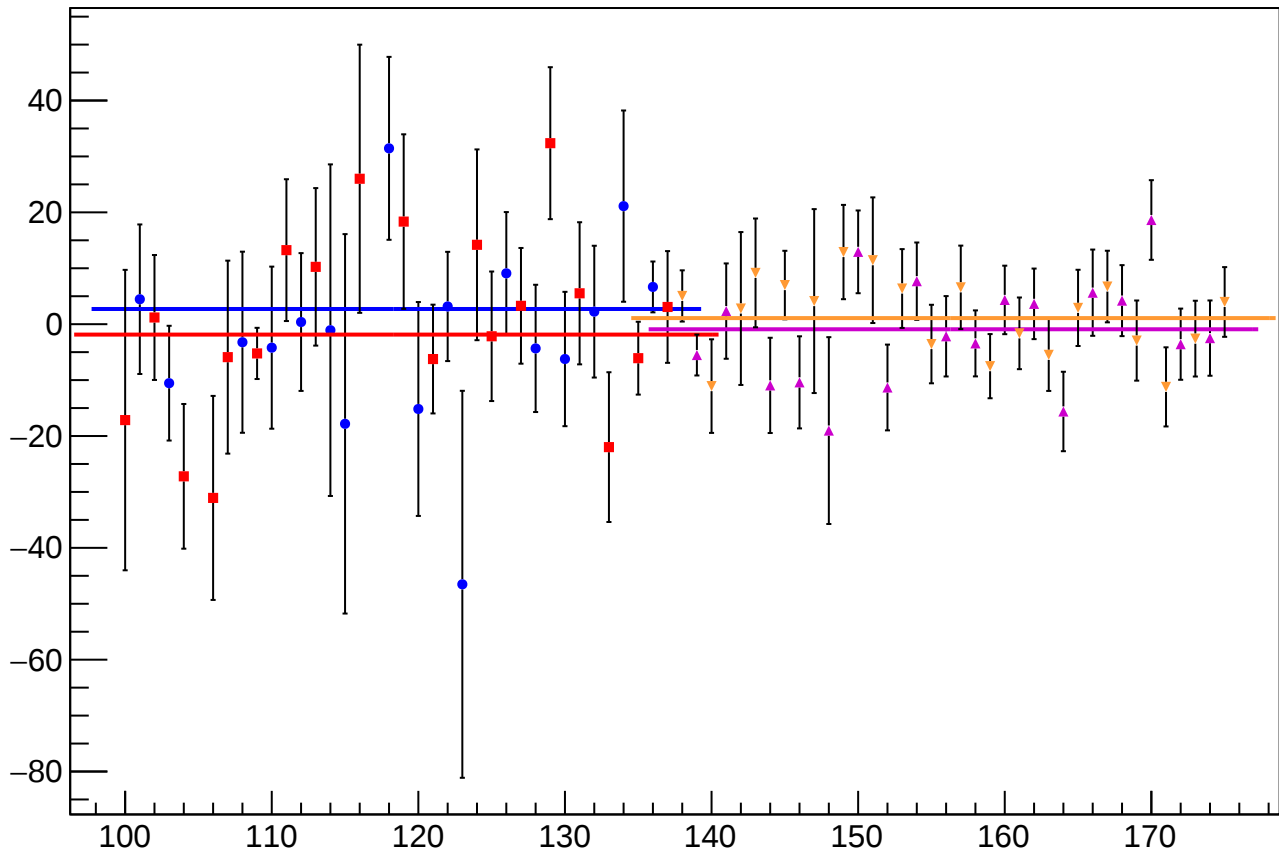
Right: 13742.695 $\pm$ 2.725 χ^2 /NDF: 1999035.6/35

In: 9486.223 $\pm$ 1.528 χ^2 /NDF: 2465065.5/34

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

All: 9507.994 $\pm$ 1.064 χ^2 /NDF: 5263475.9/73

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.717 ± 2.752 χ^2/NDF : 11.6/16

Left Out: 1.089 ± 1.581 χ^2/NDF : 17.0/19

Right Out: -1.861 ± 2.439 χ^2/NDF : 23.5/18

Left In: -0.910 ± 1.572 χ^2/NDF : 27.4/17

Left: 0.084 ± 1.115 χ^2/NDF : 45.2/37

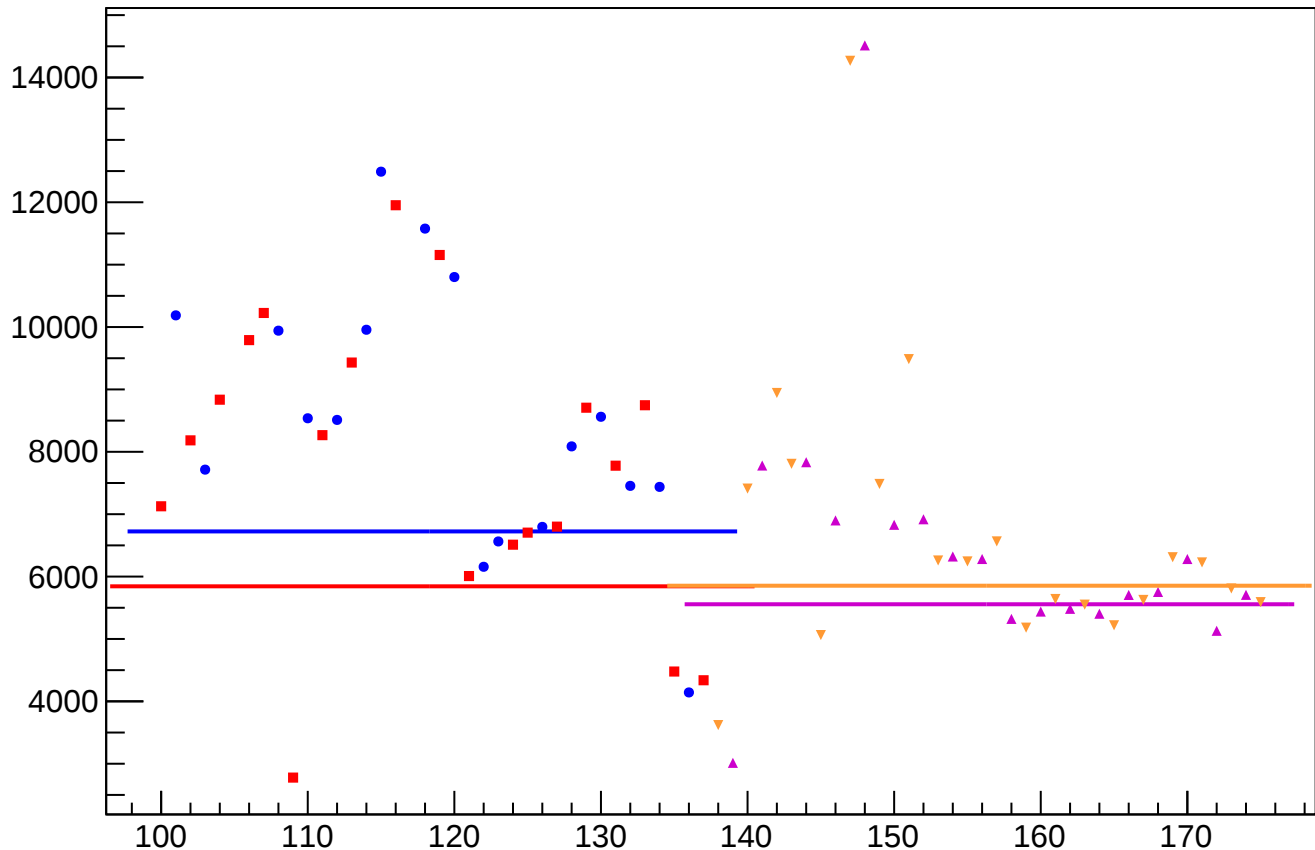
Right: 0.153 ± 1.825 χ^2/NDF : 36.7/35

In: -0.017 ± 1.365 χ^2/NDF : 40.4/34

Out: 0.216 ± 1.327 χ^2/NDF : 41.6/38

All: 0.103 ± 0.951 χ^2/NDF : 82.0/73

diff_bpm1Y_rms vs Slug, Sign Corrected



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

Left Out: 5853.498+/-1.118 χ^2/NDF : 1670821.4/19

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

Left In: 5556.256+/-1.112 χ^2/NDF : 2080211.7/17

Left: 5704.046+/-0.788 χ^2/NDF : 3786582.8/37

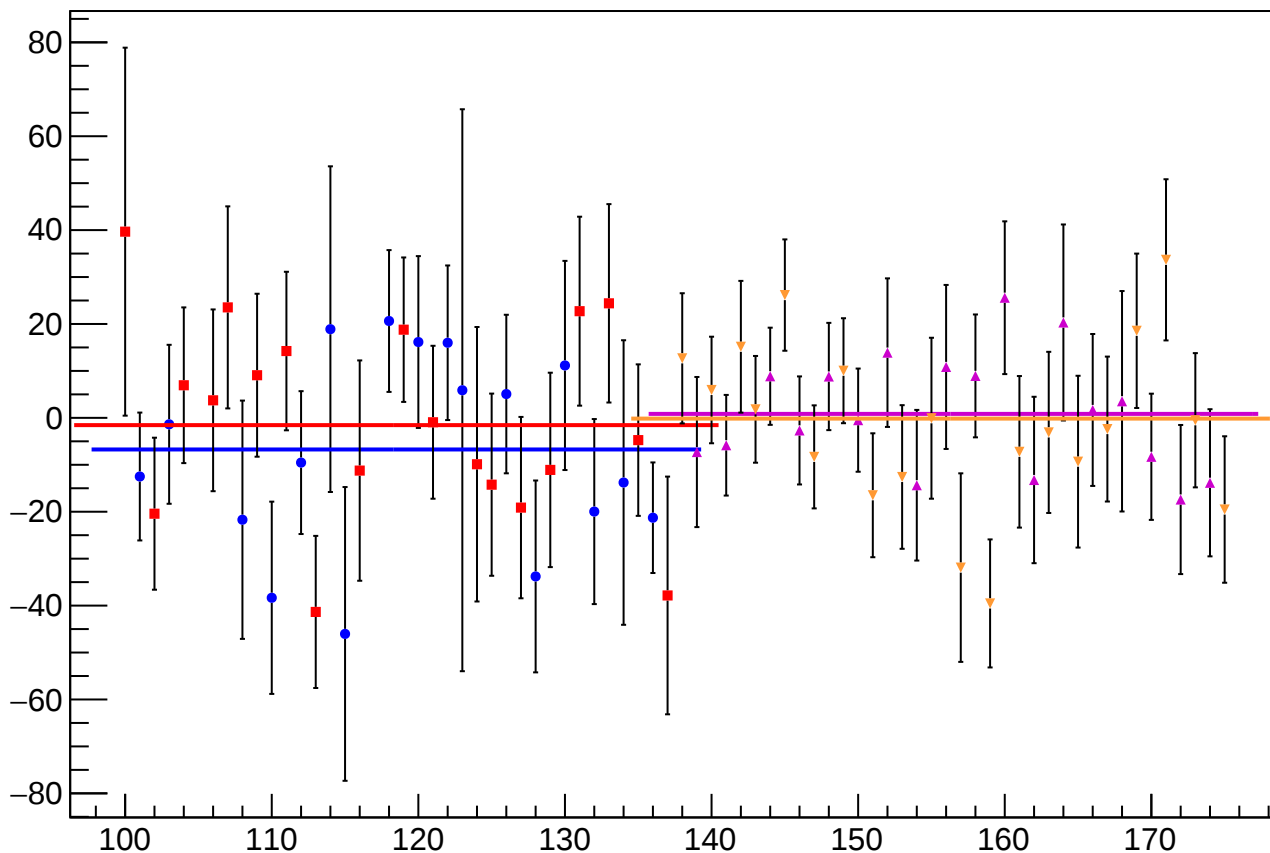
Right: 6230.943+/-1.291 χ^2/NDF : 3783849.2/35

In: 5843.521+/-0.965 χ^2/NDF : 3743720.5/34

Out: 5850.638+/-0.938 χ^2/NDF : 3948067.4/38

All: 5847.181+/-0.673 χ^2/NDF : 7691815.8/73

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.736 ± 4.513 $\chi^2/\text{NDF}: 16.9/16$

Left Out: -0.160 ± 3.147 $\chi^2/\text{NDF}: 28.9/19$

Right Out: -1.549 ± 4.372 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.846 ± 3.317 $\chi^2/\text{NDF}: 10.6/17$

Left: 0.316 ± 2.283 $\chi^2/\text{NDF}: 39.6/37$

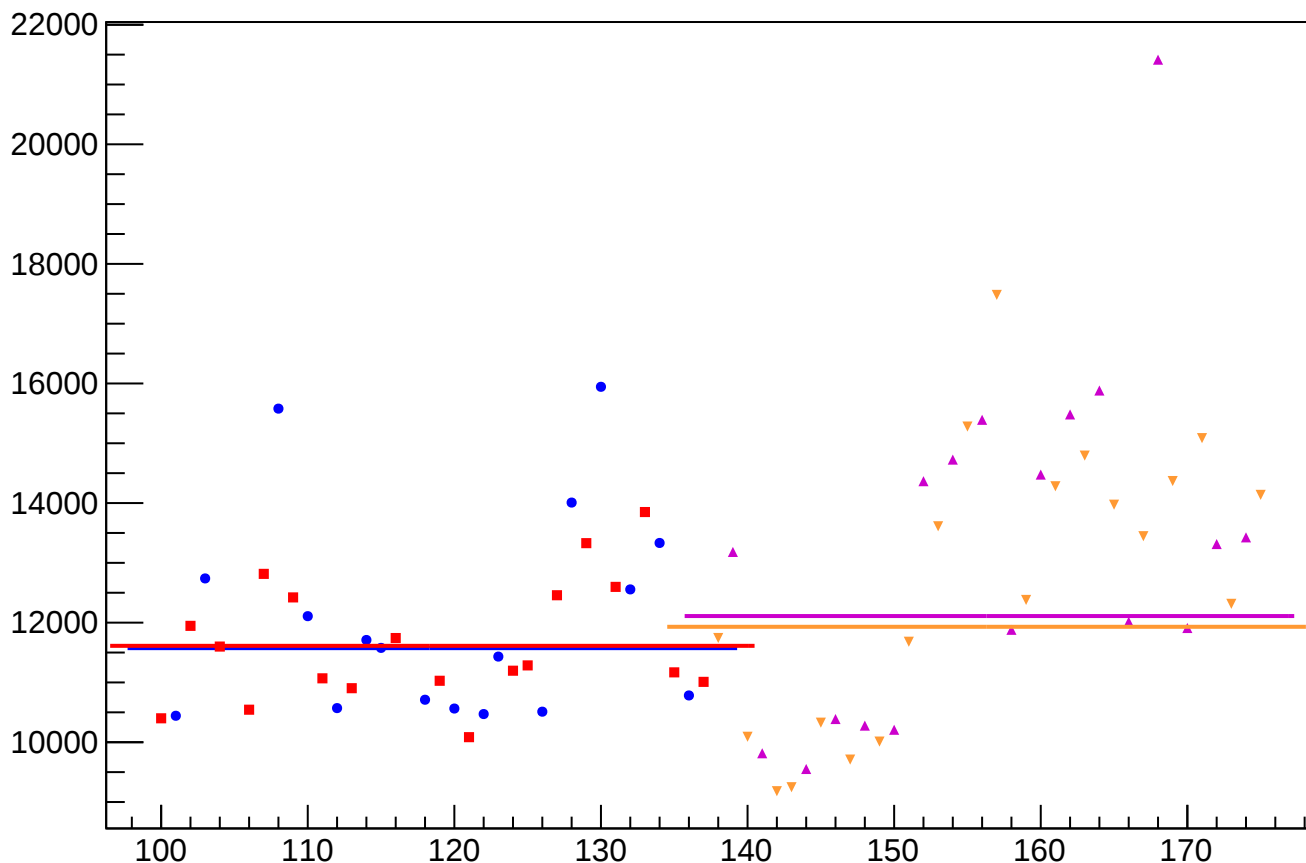
Right: -4.061 ± 3.140 $\chi^2/\text{NDF}: 37.5/35$

In: -1.814 ± 2.673 $\chi^2/\text{NDF}: 29.3/34$

Out: -0.635 ± 2.554 $\chi^2/\text{NDF}: 48.9/38$

All: -1.198 ± 1.847 $\chi^2/\text{NDF}: 78.4/73$

diff_bpm11X_rms vs Slug, Sign Corrected



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

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

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

Left In: 12110.307+/-2.346 χ^2/NDF : 1063852.8/17

Left: 12015.752+/-1.615 χ^2/NDF : 2036513.1/37

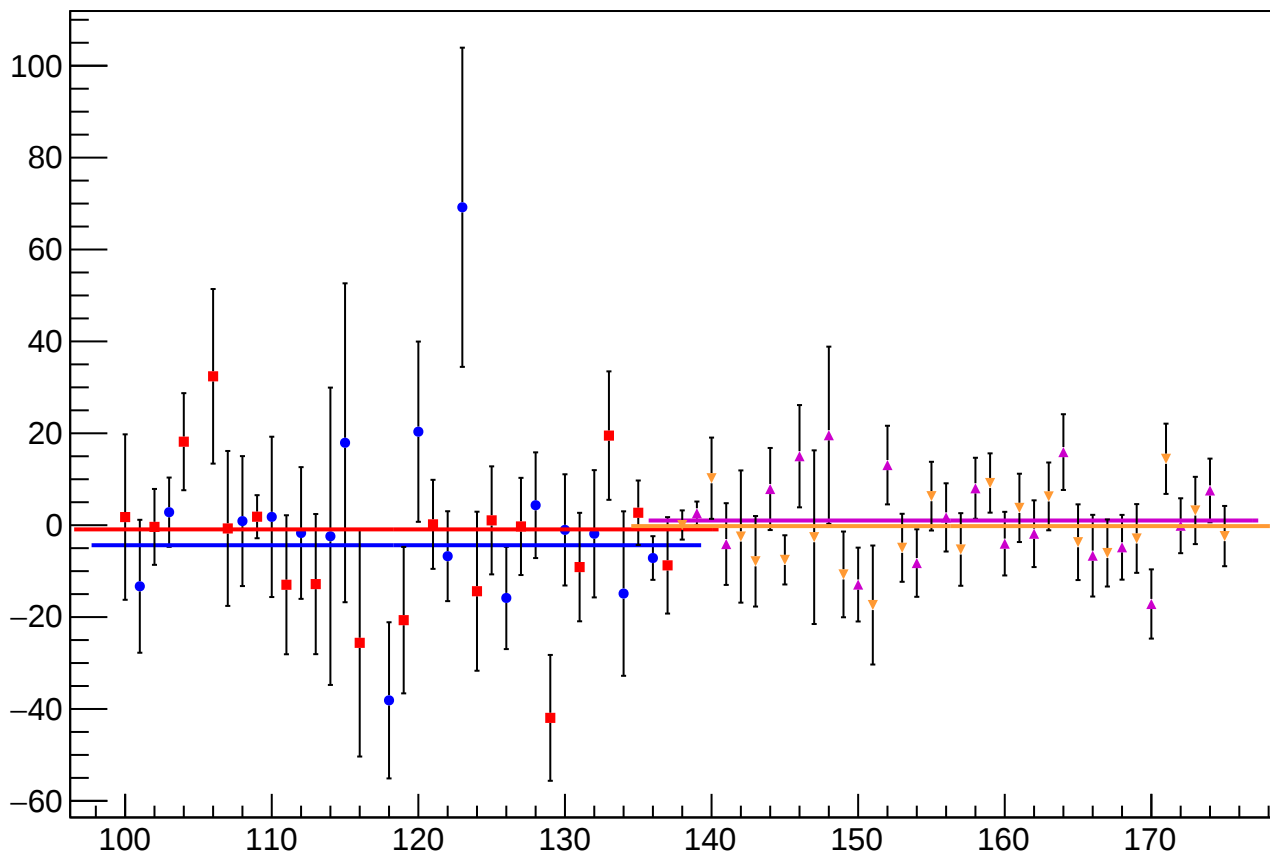
Right: 11593.467+/-2.220 χ^2/NDF : 333118.8/35

In: 11921.988+/-1.890 χ^2/NDF : 1320959.0/34

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

All: 11869.708+/-1.306 χ^2/NDF : 2393291.0/71

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: -0.200 ± 1.571 χ^2/NDF : 16.7/19

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

Left In: 1.022 ± 1.524 χ^2/NDF : 23.6/17

Left: 0.430 ± 1.094 χ^2/NDF : 40.6/37

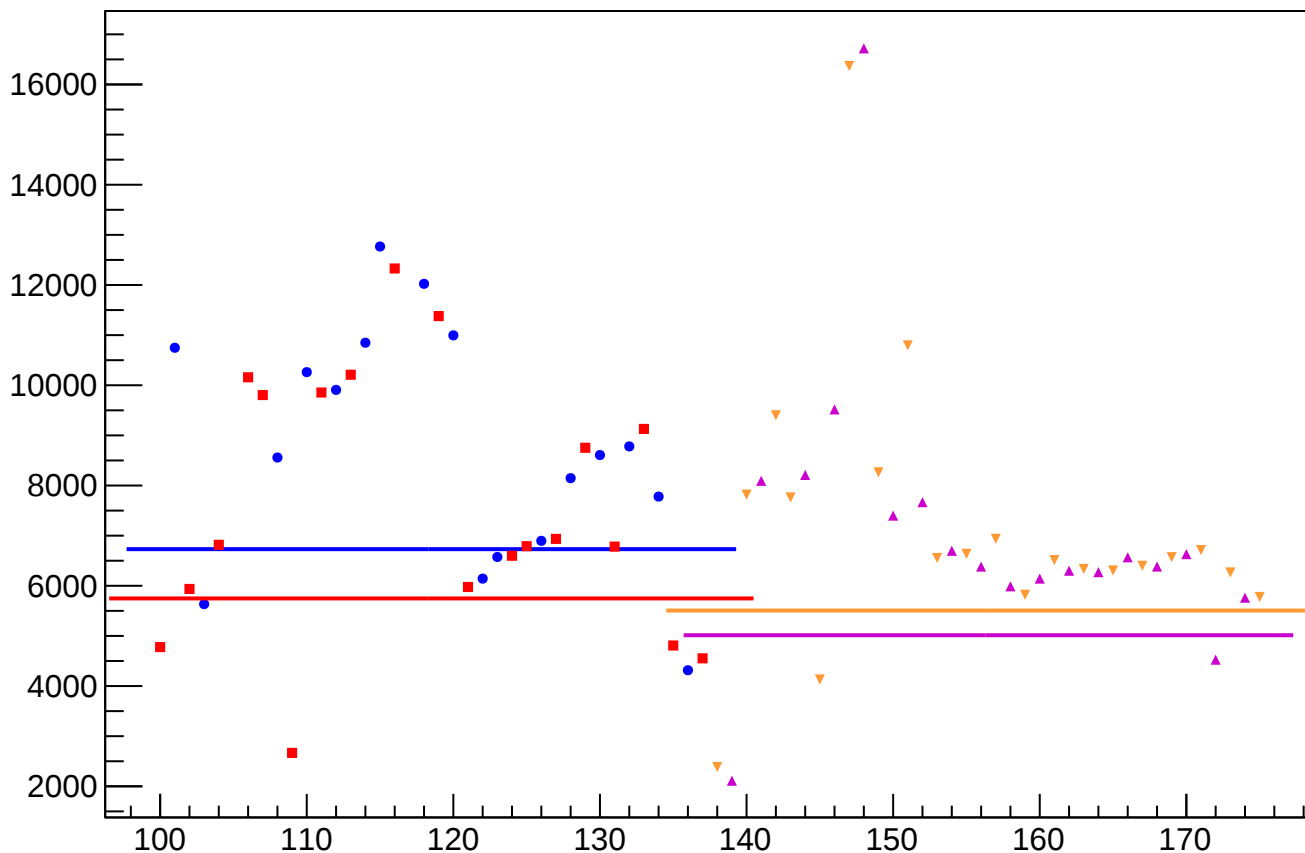
Right: -2.407 ± 1.827 χ^2/NDF : 38.9/35

In: -0.224 ± 1.336 χ^2/NDF : 41.0/34

Out: -0.411 ± 1.319 χ^2/NDF : 40.3/38

All: -0.319 ± 0.938 χ^2/NDF : 81.3/73

diff_bpm11Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 5013.695 $\pm$ 1.078 χ^2 /NDF: 5142195.6/17

Left: 5252.540 $\pm$ 0.773 χ^2 /NDF: 9244808.3/37

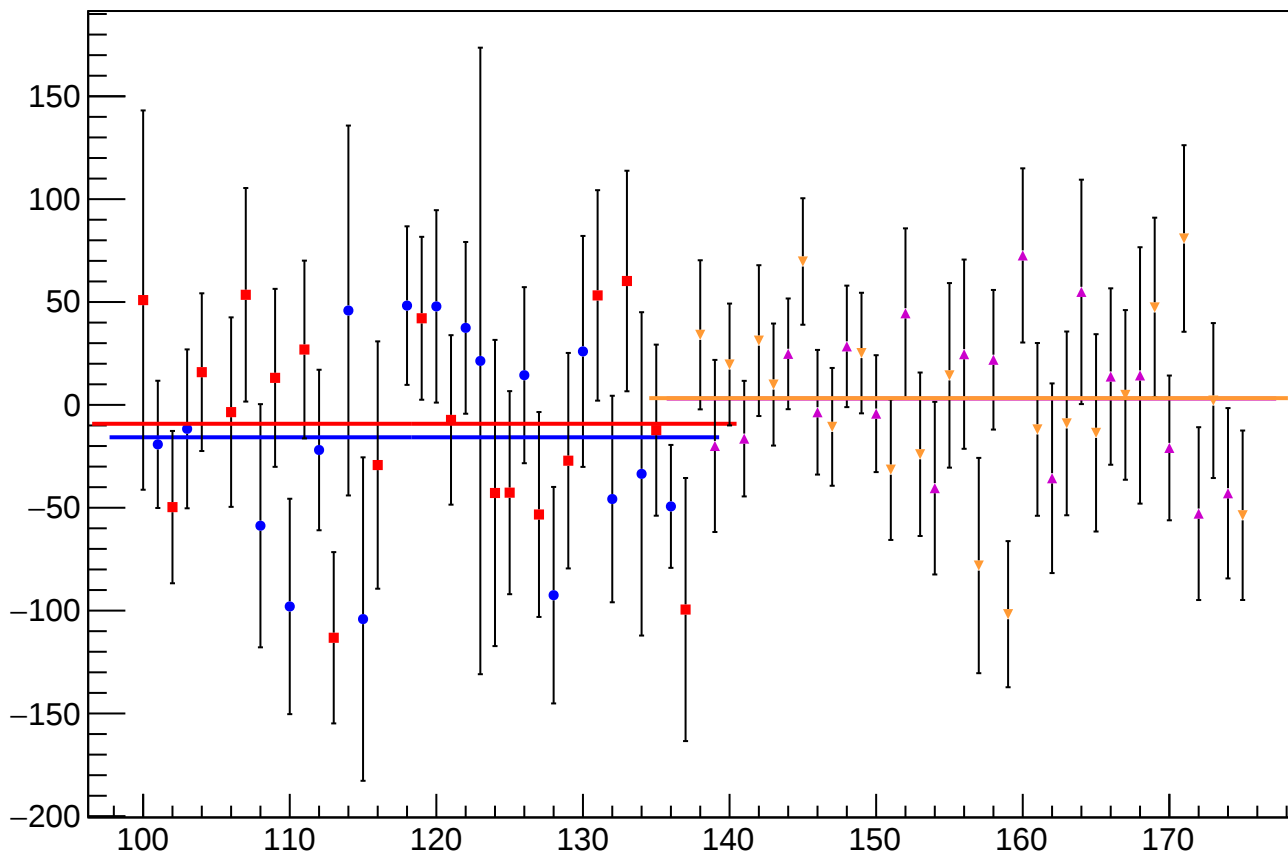
Right: 6173.310 $\pm$ 1.292 χ^2 /NDF: 3749669.1/35

In: 5411.230 $\pm$ 0.945 χ^2 /NDF: 7175321.5/34

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

All: 5495.538 $\pm$ 0.664 χ^2 /NDF: 13368469.2/77

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 3.275 $\pm$ 8.229 χ^2/NDF :26.0/19

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

Left In: 3.066 $\pm$ 8.666 χ^2/NDF :12.8/17

Left: 3.176 $\pm$ 5.967 χ^2/NDF : 38.8/37

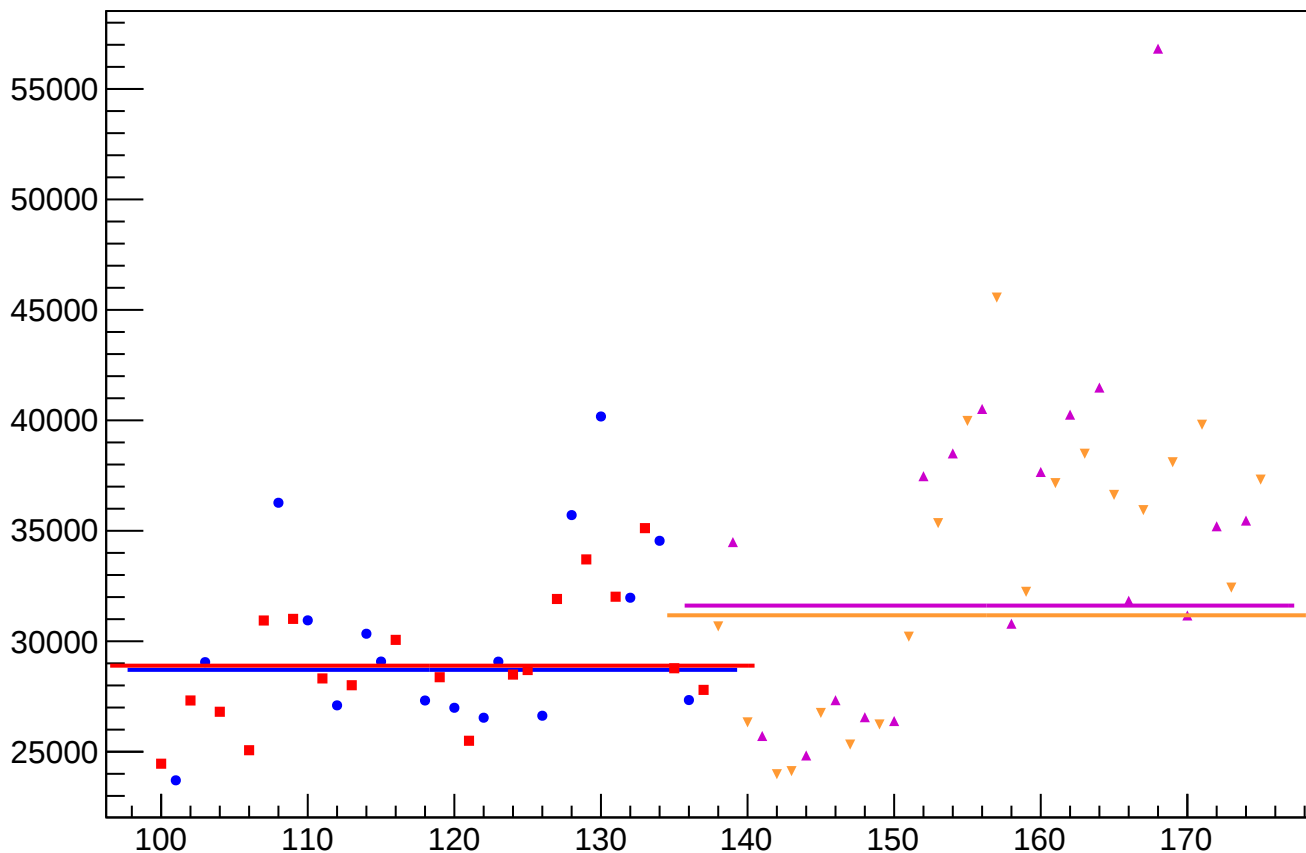
Right: -12.370 $\pm$ 7.810 χ^2/NDF : 35.4/35

In: -3.974 $\pm$ 6.856 χ^2/NDF :30.5/34

Out: -1.253 $\pm$ 6.565 χ^2/NDF :46.1/38

All: -2.555 $\pm$ 4.742 χ^2/NDF : 76.7/73

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28705.569 $\pm$ 7.925 χ^2 /NDF: 250992.5/16

Left Out: 31175.454 $\pm$ 5.819 χ^2 /NDF:995403.2/19

Right Out: 28895.535 $\pm$ 7.700 χ^2 /NDF: 111212.6/18

Left In: 31614.998 $\pm$ 6.128 χ^2 /NDF:1097514.6/17

Left: 31383.869 $\pm$ 4.220 χ^2 /NDF: 2095623.3/37

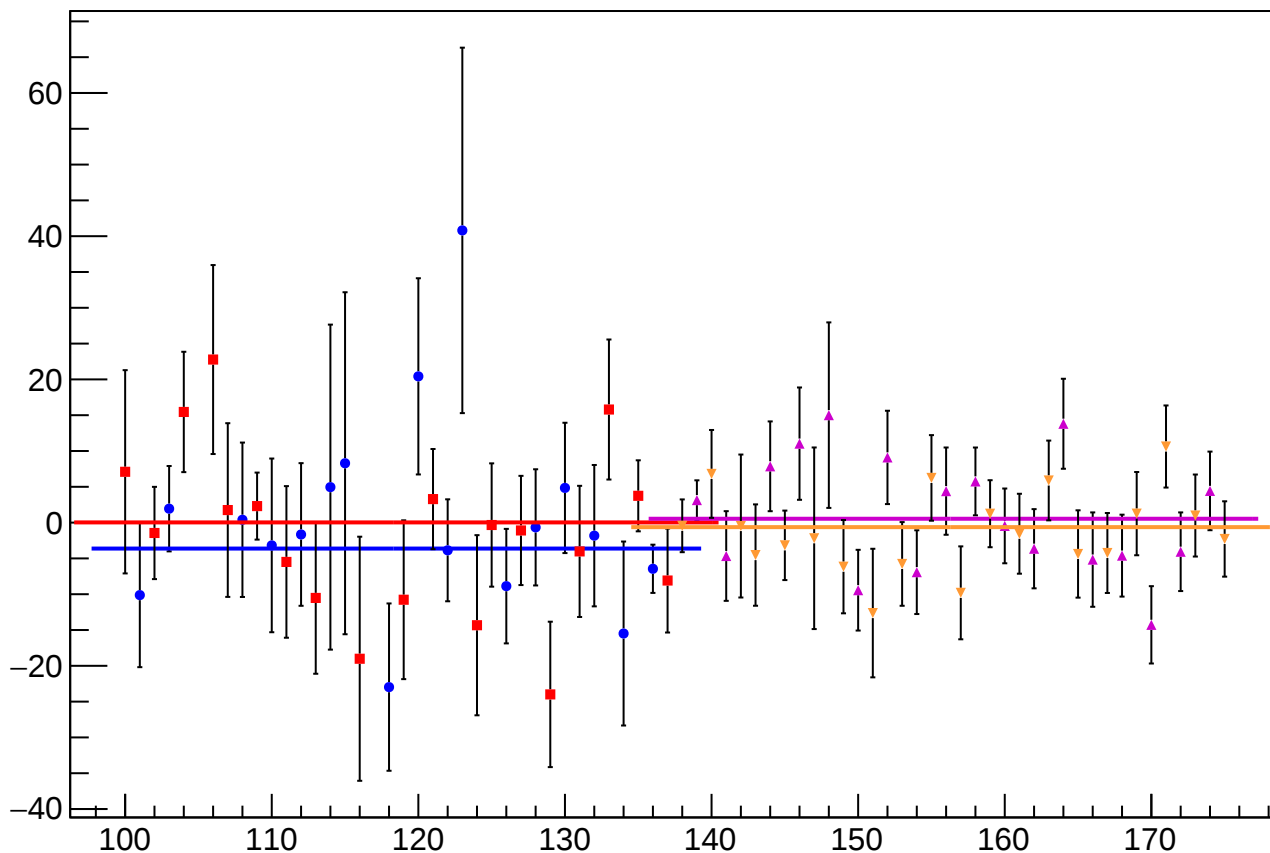
Right: 28803.288 $\pm$ 5.522 χ^2 /NDF: 362500.7/35

In: 30526.360 $\pm$ 4.848 χ^2 /NDF:1432856.6/34

Out: 30346.683 $\pm$ 4.642 χ^2 /NDF:1162420.7/38

All: 30432.637 $\pm$ 3.353 χ^2 /NDF: 2595993.9/77

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.625 $\pm$ 2.006 χ^2/NDF : 13.7/16

Left Out: -0.633 $\pm$ 1.300 χ^2/NDF : 15.2/19

Right Out: 0.027 $\pm$ 1.890 χ^2/NDF : 22.1/18

Left In: 0.538 $\pm$ 1.281 χ^2/NDF : 29.4/17

Left: -0.039 $\pm$ 0.913 χ^2/NDF : 45.0/37

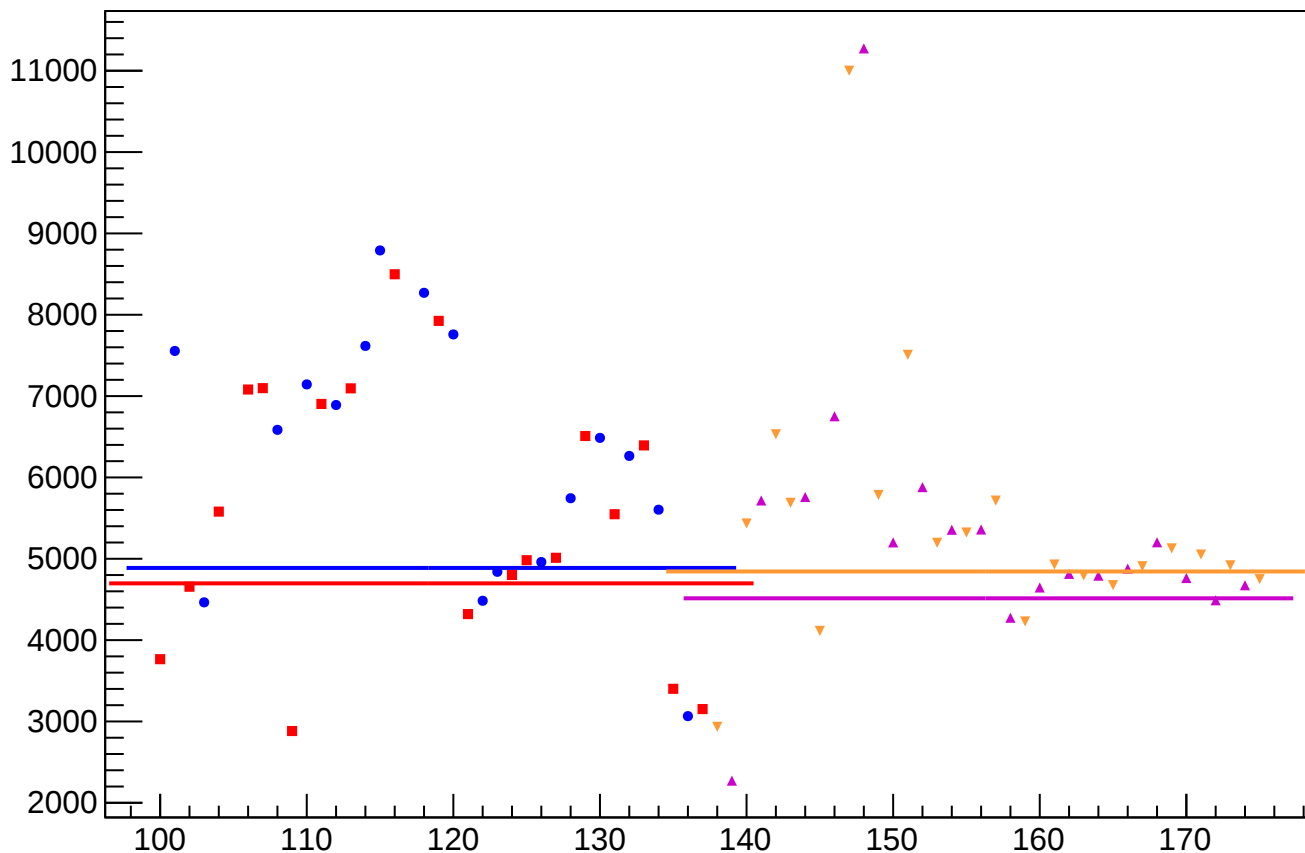
Right: -1.690 $\pm$ 1.376 χ^2/NDF : 37.6/35

In: -0.668 $\pm$ 1.080 χ^2/NDF : 46.2/34

Out: -0.421 $\pm$ 1.071 χ^2/NDF : 37.3/38

All: -0.544 $\pm$ 0.761 χ^2/NDF : 83.6/73

diff_bpm12Y_rms vs Slug, Sign Corrected



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

Left Out: 4843.834 $\pm$ 0.919 χ^2 /NDF: 1477487.0/19

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

Left In: 4513.974 $\pm$ 0.906 χ^2 /NDF: 2433460.2/17

Left: 4676.501 $\pm$ 0.645 χ^2 /NDF: 3976246.2/37

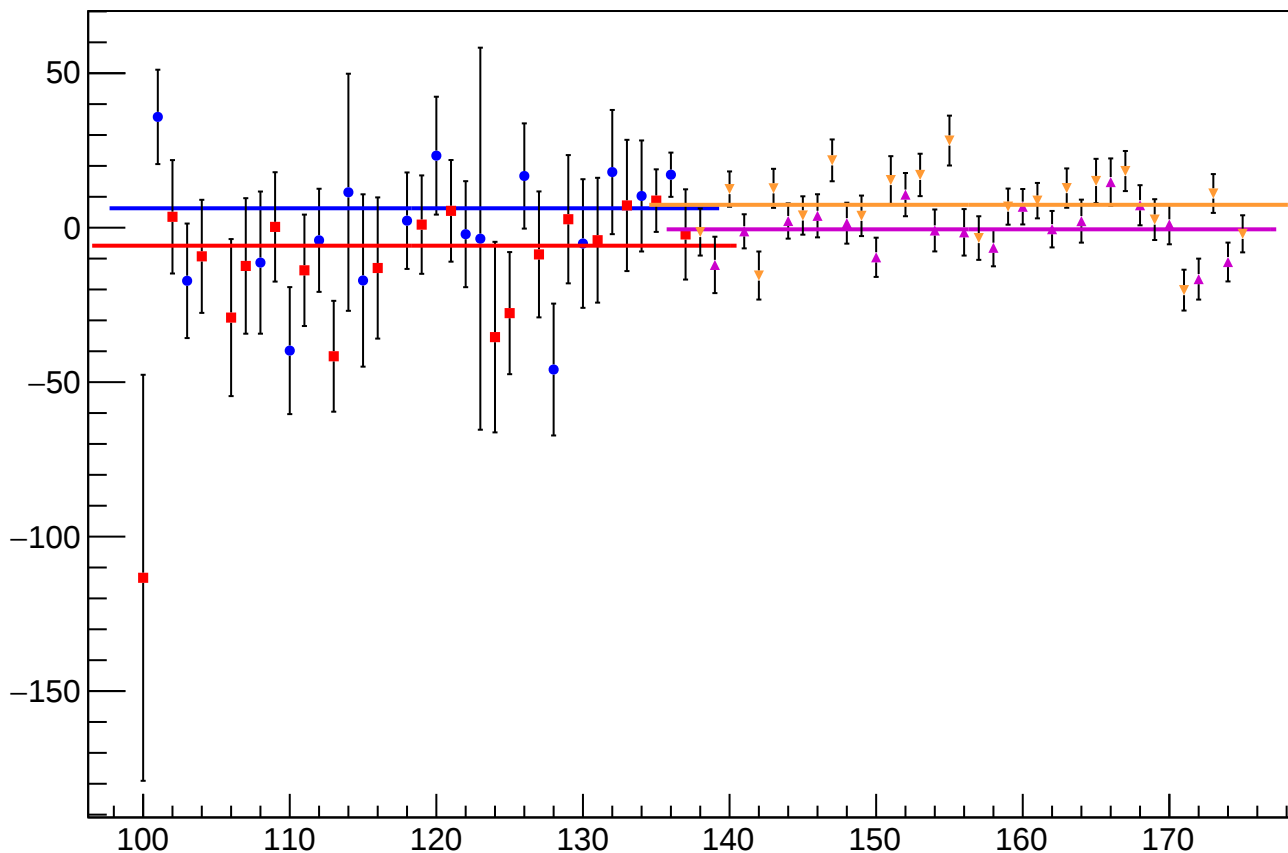
Right: 4786.972 $\pm$ 0.973 χ^2 /NDF: 2731901.7/35

In: 4622.226 $\pm$ 0.764 χ^2 /NDF: 3892008.9/34

Out: 4796.897 $\pm$ 0.757 χ^2 /NDF: 2798721.1/38

All: 4710.267 $\pm$ 0.538 χ^2 /NDF: 6717104.1/73

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.283 ± 4.064 $\chi^2/\text{NDF}: 22.5/16$

Left Out: 7.406 ± 1.474 $\chi^2/\text{NDF}: 54.2/19$

Right Out: -5.828 ± 4.219 $\chi^2/\text{NDF}: 13.8/18$

Left In: -0.531 ± 1.536 $\chi^2/\text{NDF}: 23.9/17$

Left: 3.602 ± 1.064 $\chi^2/\text{NDF}: 92.0/37$

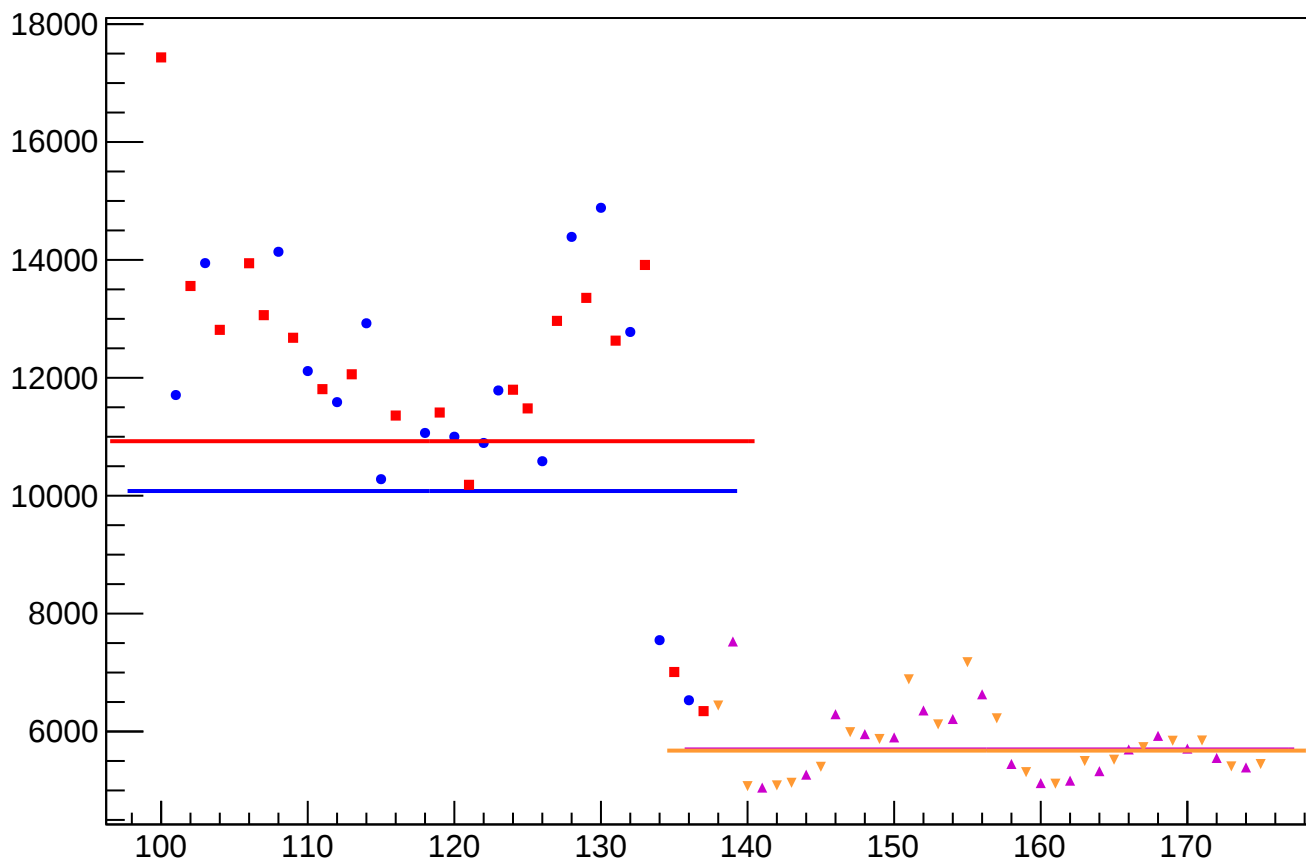
Right: 0.454 ± 2.927 $\chi^2/\text{NDF}: 40.6/35$

In: 0.321 ± 1.437 $\chi^2/\text{NDF}: 48.9/34$

Out: 5.966 ± 1.391 $\chi^2/\text{NDF}: 76.8/38$

All: 3.234 ± 1.000 $\chi^2/\text{NDF}: 133.7/73$

diff_bpm16X_rms vs Slug, Sign Corrected



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

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

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

Left In: 5695.714 $\pm$ 1.086 χ^2 /NDF: 252466.8/17

Left: 5685.403 $\pm$ 0.752 χ^2 /NDF: 508582.1/37

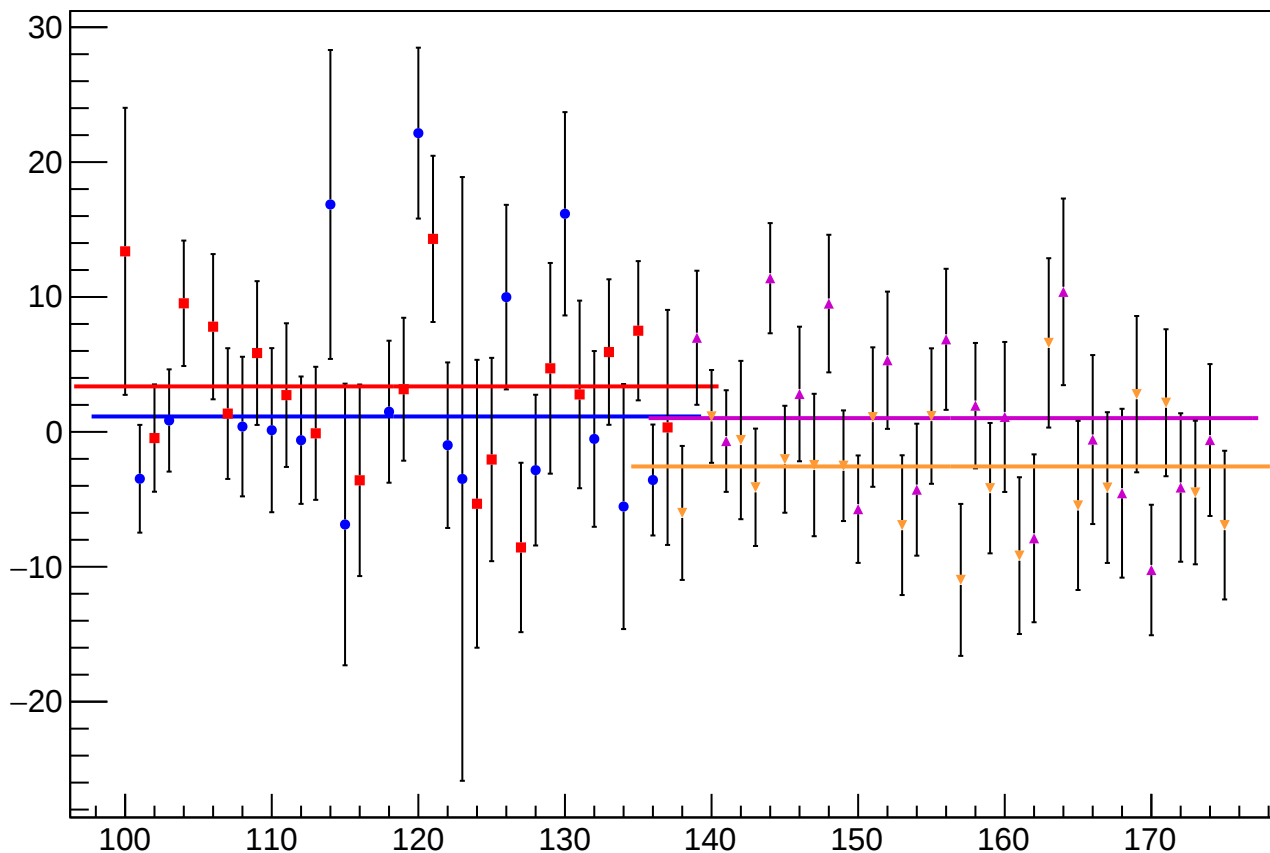
Right: 10486.193 $\pm$ 2.070 χ^2 /NDF: 1804751.7/35

In: 6243.728 $\pm$ 1.016 χ^2 /NDF: 3283195.7/34

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

All: 6245.317 $\pm$ 0.707 χ^2 /NDF: 7066100.8/73

diff_bpm16Y_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.020 ± 1.184 $\chi^2/\text{NDF}: 28.1/17$

Left: -0.873 ± 0.813 $\chi^2/\text{NDF}: 45.1/37$

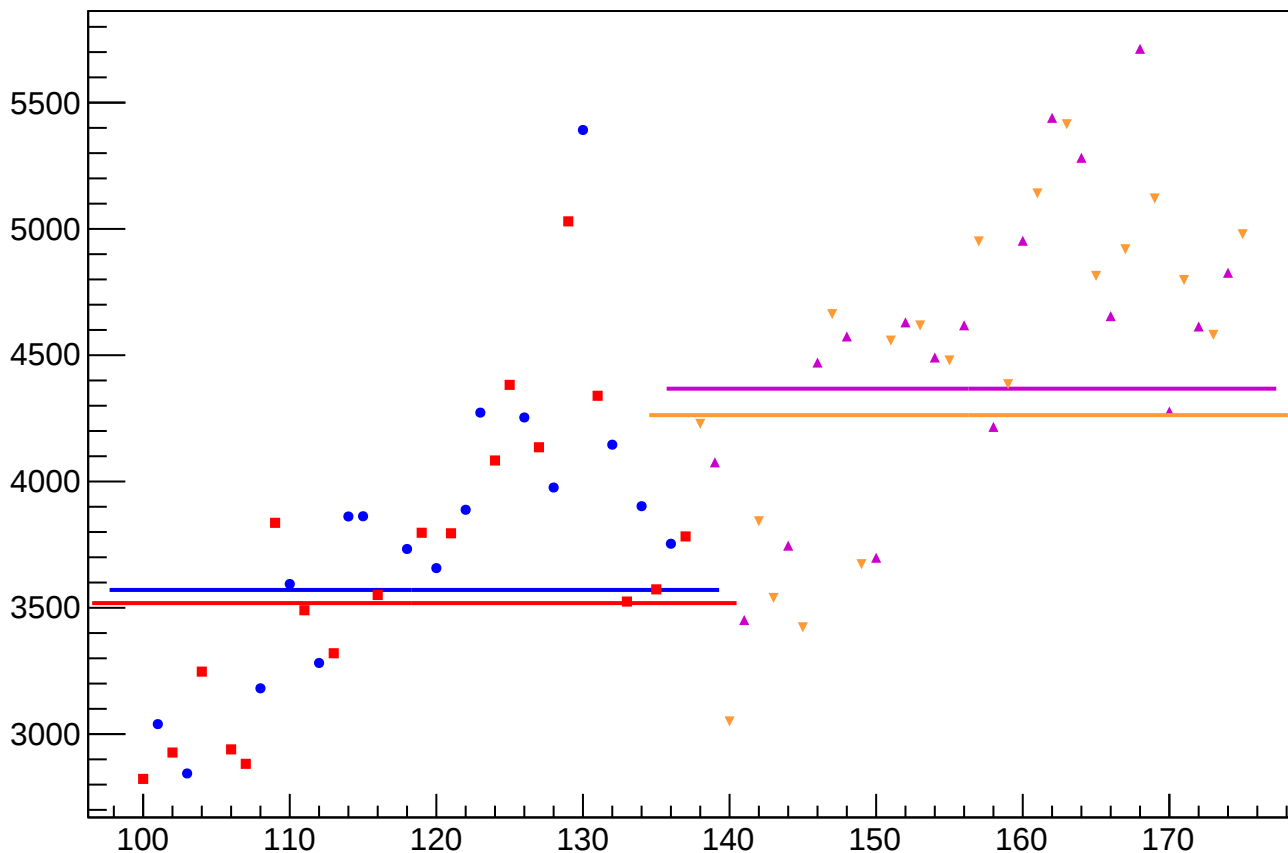
Right: 2.307 ± 0.964 $\chi^2/\text{NDF}: 39.6/35$

In: 1.071 ± 0.903 $\chi^2/\text{NDF}: 51.4/34$

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

All: 0.450 ± 0.622 $\chi^2/\text{NDF}: 91.1/73$

diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4262.734+/-0.791 χ^2/NDF : 767410.7/19

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

Left In: 4367.483+/-0.837 χ^2/NDF : 476483.4/17

Left: 4312.150+/-0.575 χ^2/NDF : 1252161.3/37

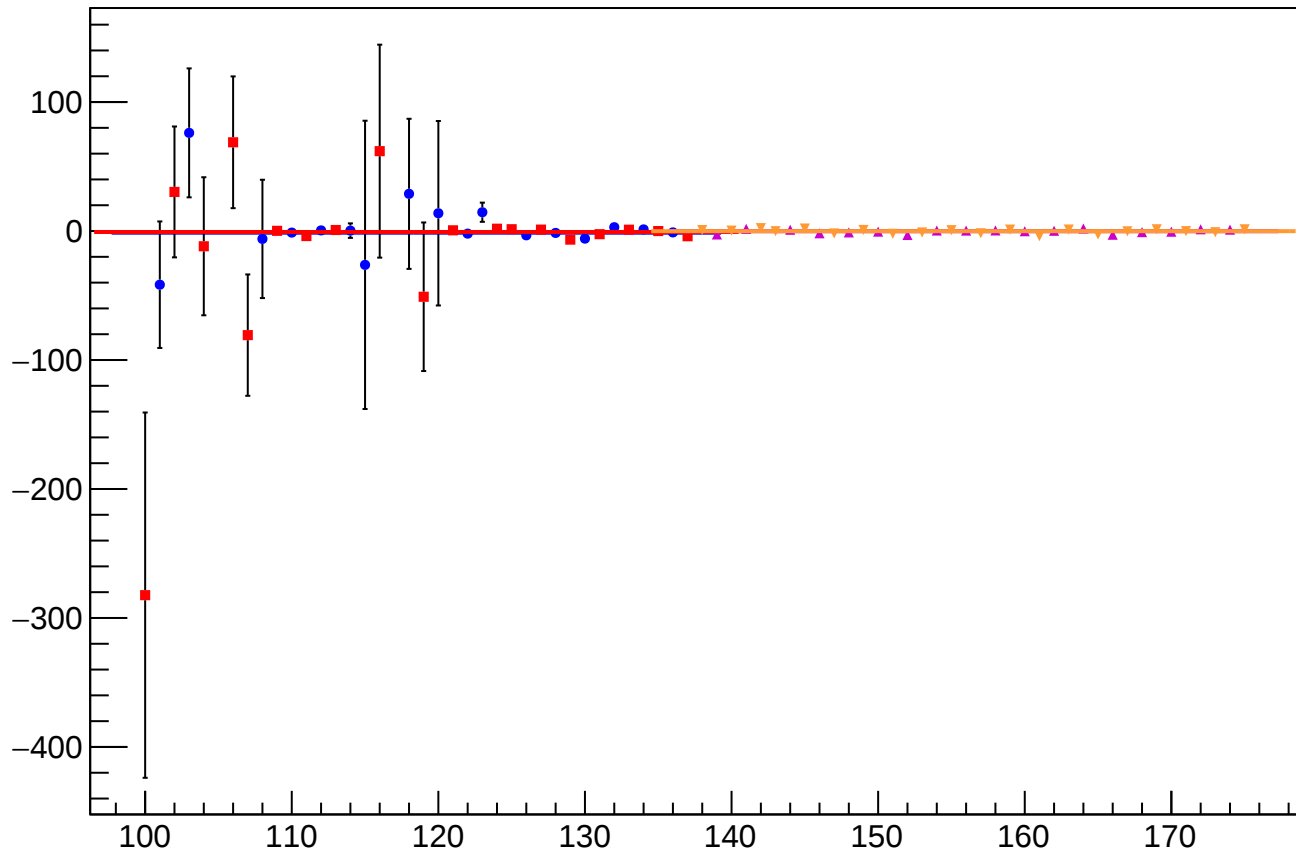
Right: 3543.480+/-0.682 χ^2/NDF : 604252.9/35

In: 4033.862+/-0.638 χ^2/NDF : 1165206.8/34

Out: 3955.158+/-0.606 χ^2/NDF : 1426177.0/38

All: 3992.468+/-0.440 χ^2/NDF : 2599377.8/73

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.129 ± 0.283 χ^2/NDF : 24.9/17

Left: -0.119 ± 0.196 χ^2/NDF : 58.6/37

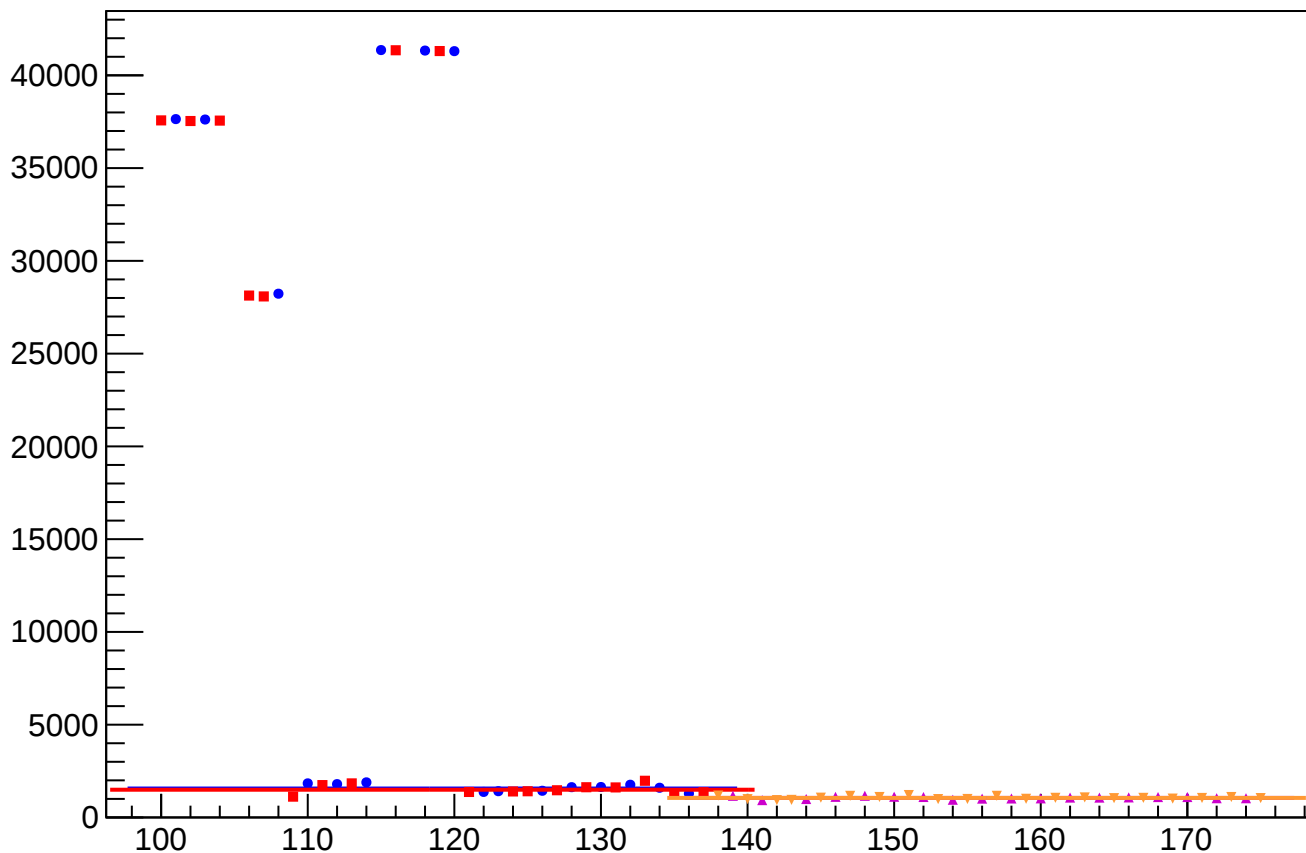
Right: -0.983 ± 0.515 χ^2/NDF : 38.6/35

In: -0.271 ± 0.265 χ^2/NDF : 43.2/34

Out: -0.190 ± 0.255 χ^2/NDF : 56.4/38

All: -0.229 ± 0.184 χ^2/NDF : 99.7/73

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

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

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

Left In: 1052.657 $\pm$ 0.200 χ^2 /NDF: 105671.0/17

Left: 1053.190 $\pm$ 0.139 χ^2 /NDF: 240407.0/37

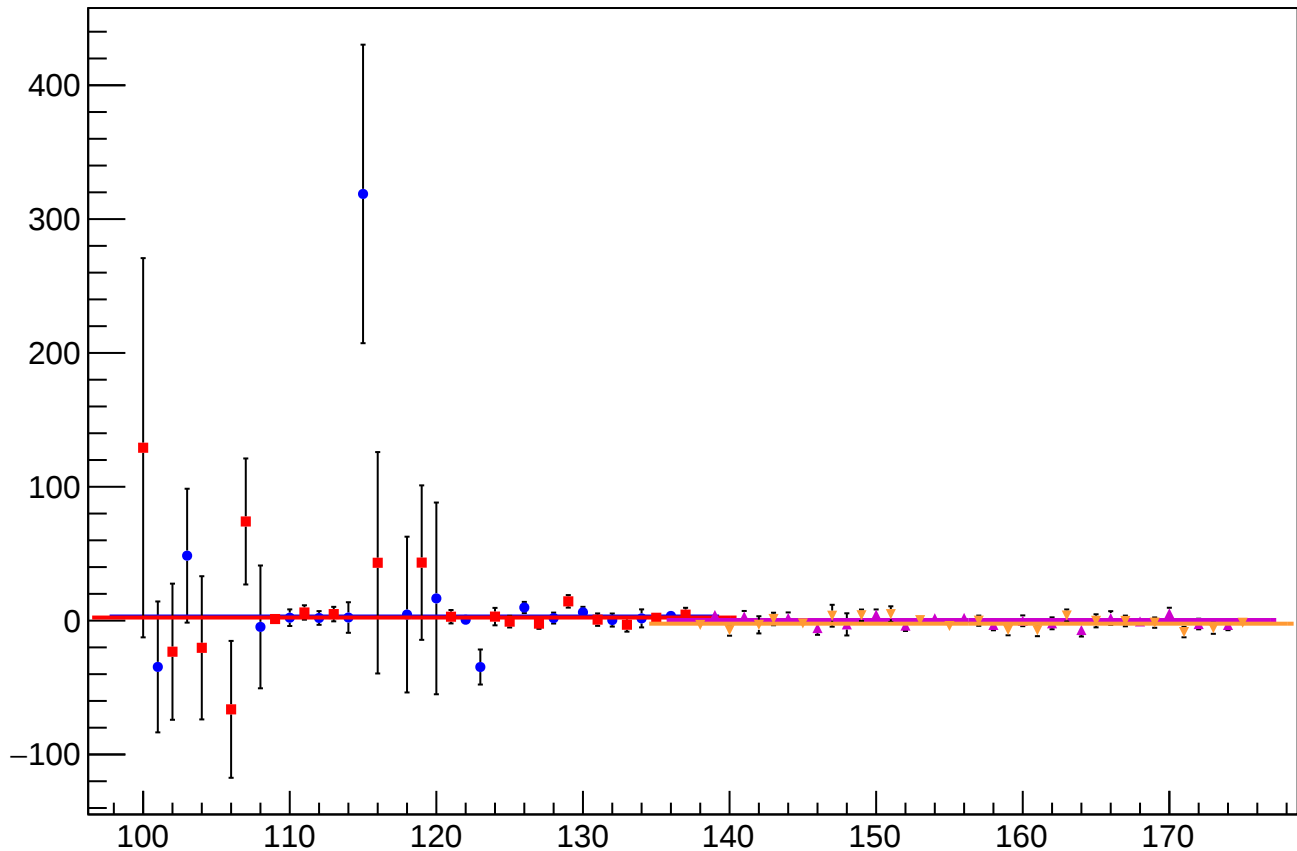
Right: 1525.146 $\pm$ 0.364 χ^2 /NDF: 9654379.4/35

In: 1116.152 $\pm$ 0.187 χ^2 /NDF: 5661144.8/34

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

All: 1113.133 $\pm$ 0.130 χ^2 /NDF: 11360985.3/77

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

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

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

Left In: 0.460 ± 0.935 $\chi^2/\text{NDF}: 13.6/17$

Left: -0.976 ± 0.646 $\chi^2/\text{NDF}: 33.8/37$

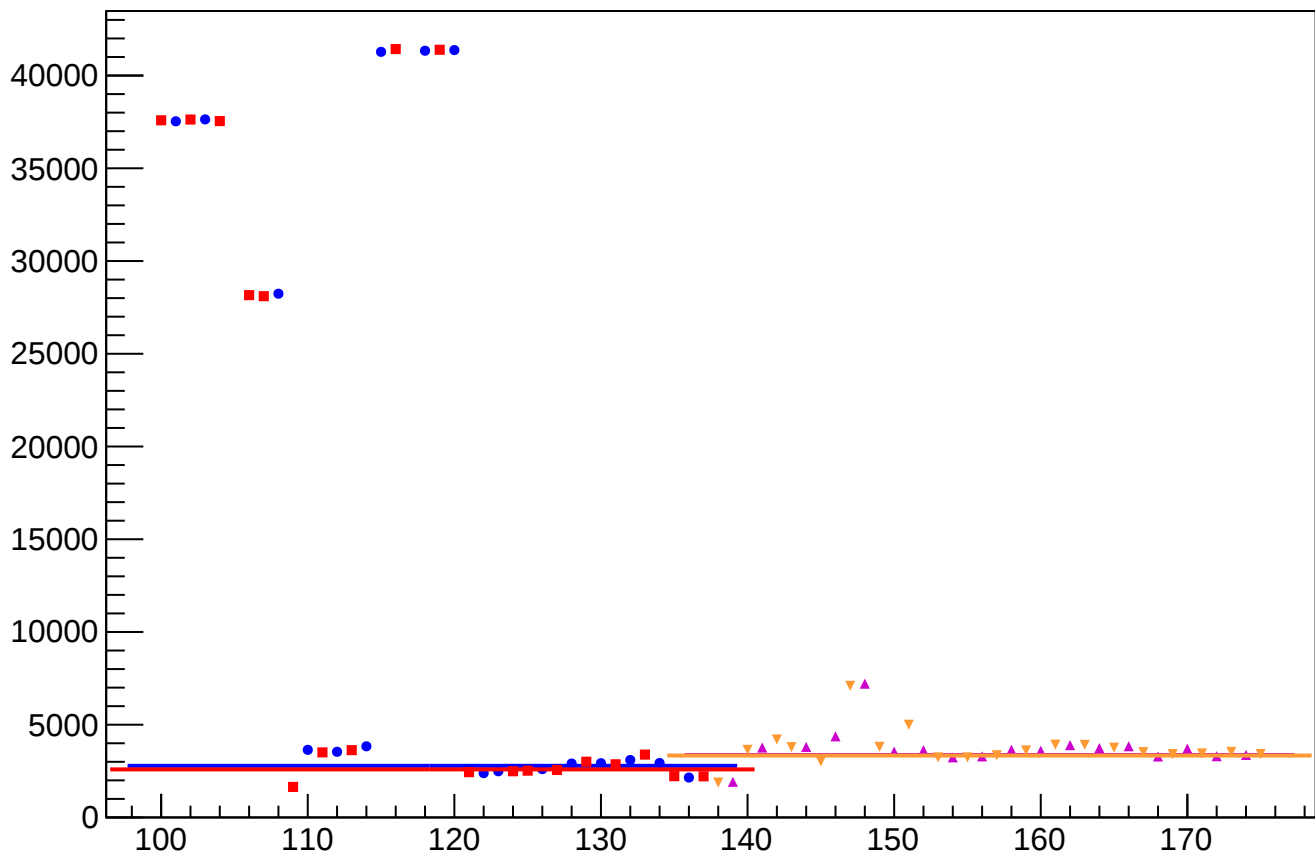
Right: 2.664 ± 0.903 $\chi^2/\text{NDF}: 39.0/35$

In: 1.330 ± 0.763 $\chi^2/\text{NDF}: 38.1/34$

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

All: 0.257 ± 0.525 $\chi^2/\text{NDF}: 83.5/73$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

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

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

Left In: 3367.943+/-0.661 χ^2/NDF : 1403558.1/17

Left: 3352.838+/-0.457 χ^2/NDF : 3030985.1/37

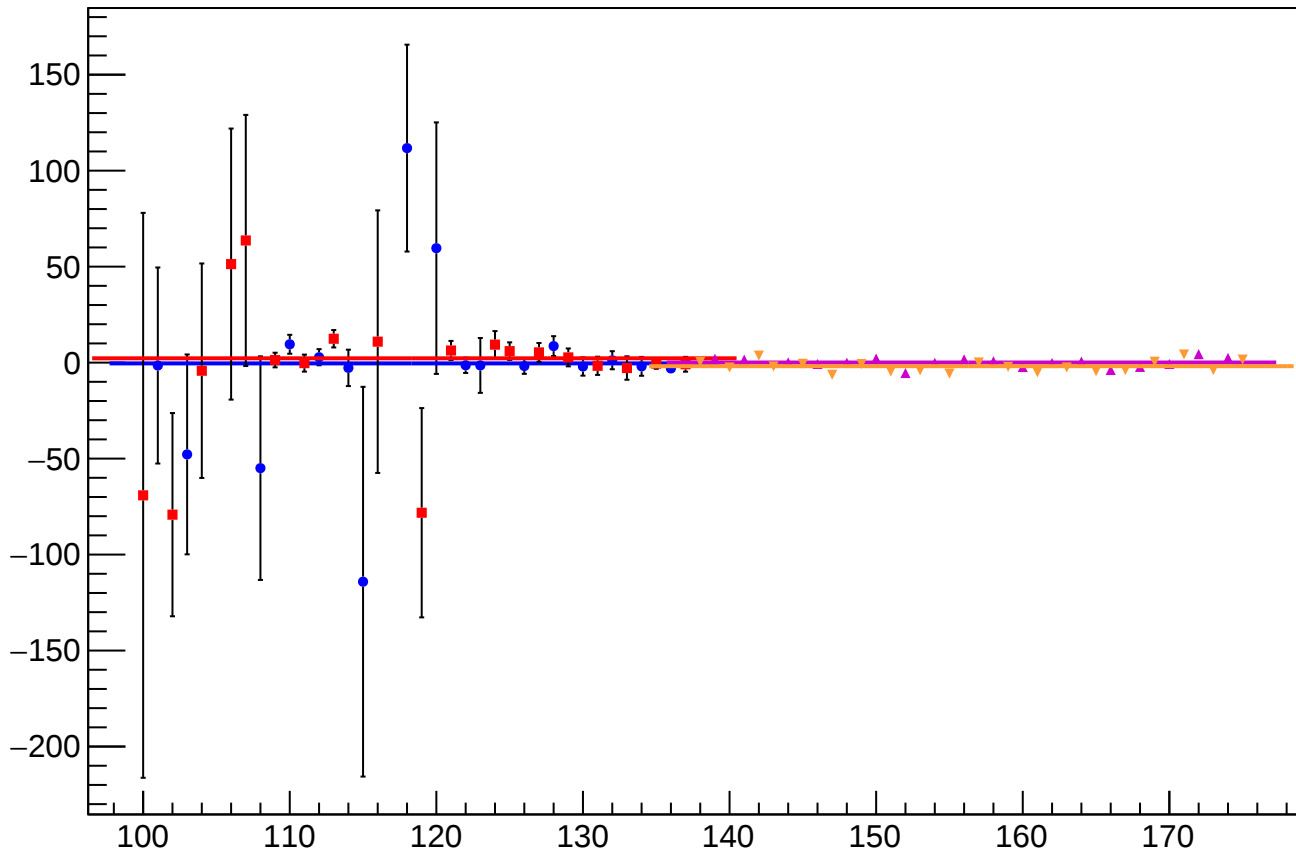
Right: 2680.897+/-0.638 χ^2/NDF : 9446853.4/35

In: 3173.539+/-0.540 χ^2/NDF : 6240823.5/34

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

All: 3125.258+/-0.371 χ^2/NDF : 13210729.3/7

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

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

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

Left In: 0.055 ± 0.448 χ^2/NDF : 24.2/17

Left: -0.941 ± 0.310 χ^2/NDF : 76.2/37

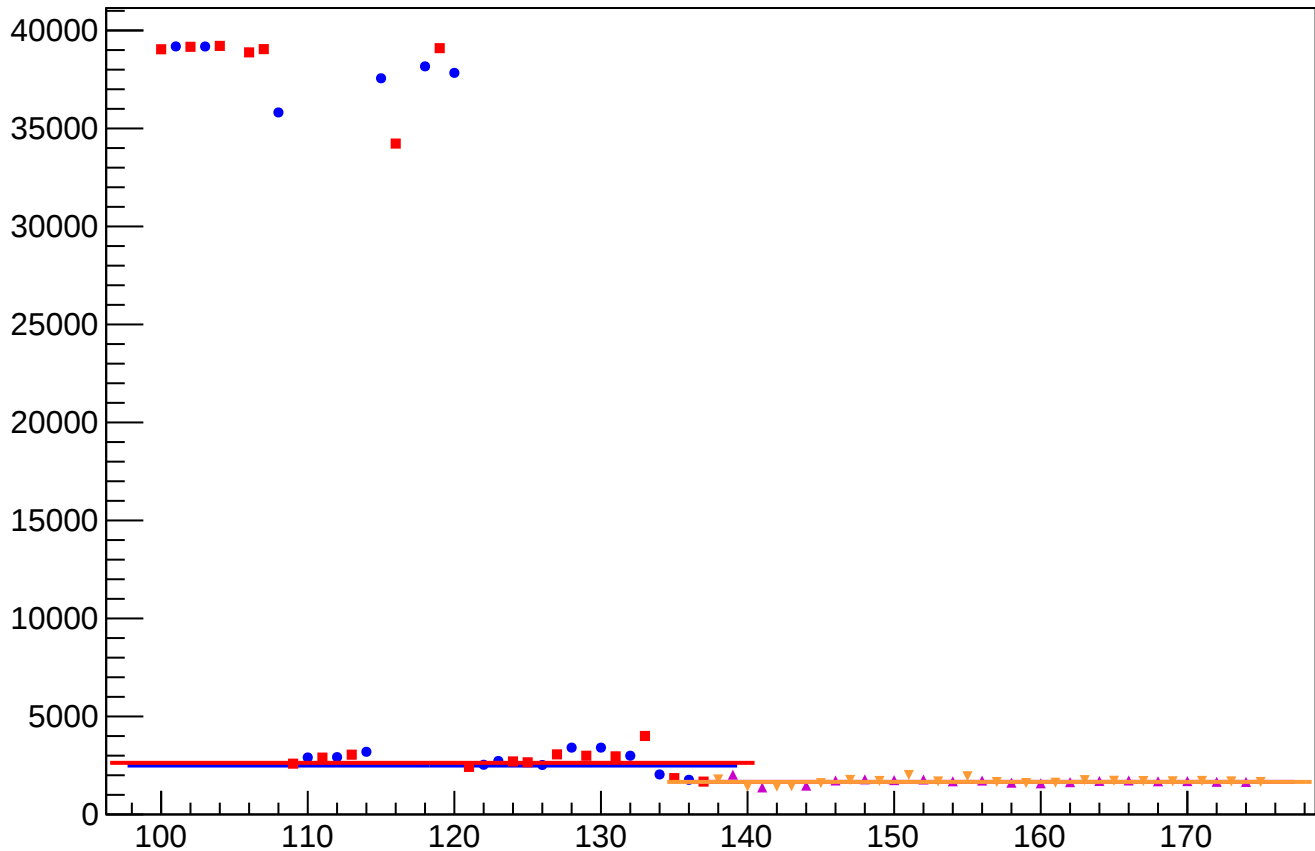
Right: 0.890 ± 0.871 χ^2/NDF : 38.0/35

In: 0.000 ± 0.420 χ^2/NDF : 42.6/34

Out: -1.424 ± 0.407 χ^2/NDF : 69.6/38

All: -0.735 ± 0.292 χ^2/NDF : 118.2/73

diff_bpm1p03aX_rms vs Slug, Sign Corrected



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

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

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

Left In: 1662.449 $\pm$ 0.317 χ^2 /NDF: 178199.4/17

Left: 1661.601 $\pm$ 0.220 χ^2 /NDF: 393050.6/37

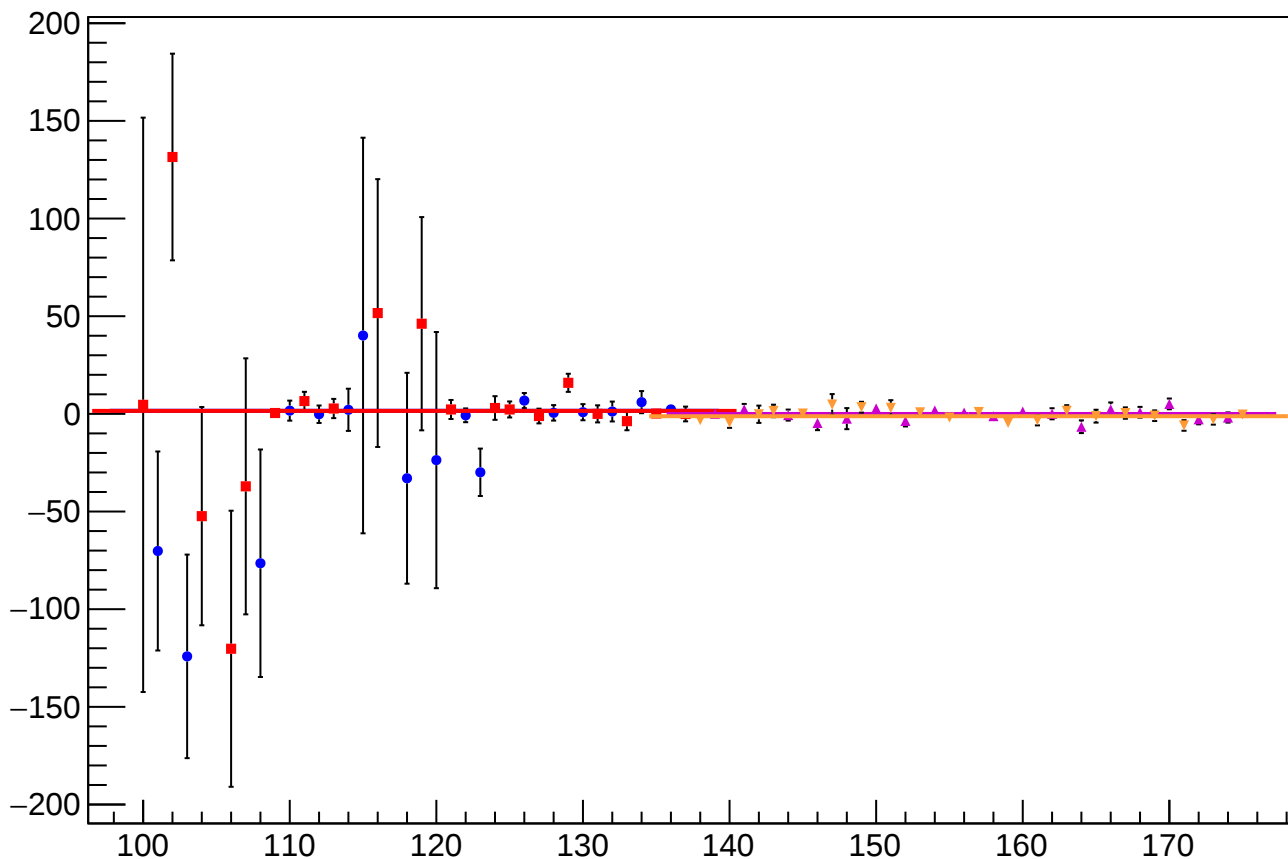
Right: 2562.854 $\pm$ 0.616 χ^2 /NDF: 9755329.9/35

In: 1761.701 $\pm$ 0.297 χ^2 /NDF: 5885089.3/34

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

All: 1763.202 $\pm$ 0.207 χ^2 /NDF: 12048774.2/76

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.057 ± 0.601 $\chi^2/\text{NDF}: 16.2/17$

Left: -0.641 ± 0.421 $\chi^2/\text{NDF}: 36.6/37$

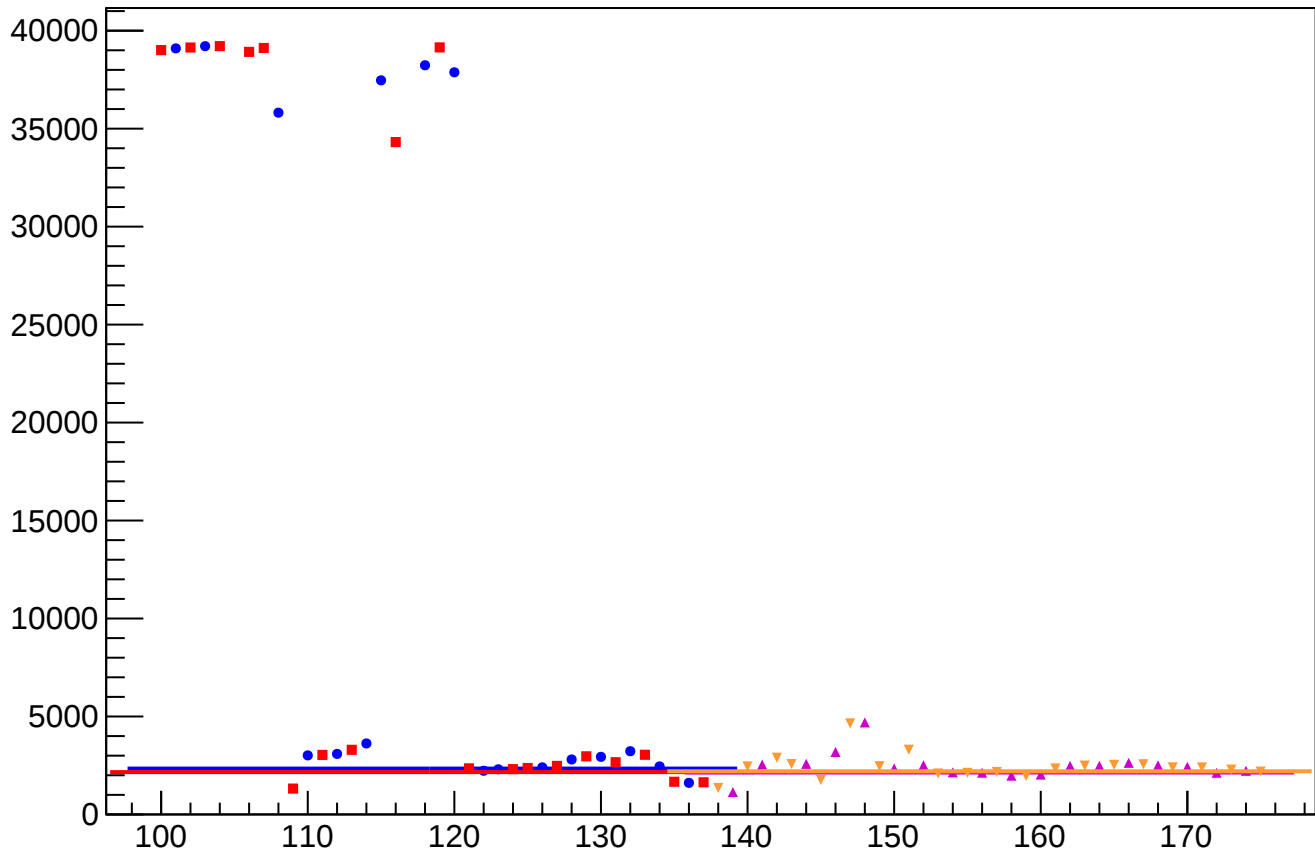
Right: 1.548 ± 0.778 $\chi^2/\text{NDF}: 45.4/35$

In: 0.297 ± 0.532 $\chi^2/\text{NDF}: 38.2/34$

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

All: -0.144 ± 0.371 $\chi^2/\text{NDF}: 88.1/73$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

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

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

Left In: 2139.251+/-0.425 χ^2/NDF : 1946227.5/17

Left: 2171.800+/-0.298 χ^2/NDF : 3362439.8/37

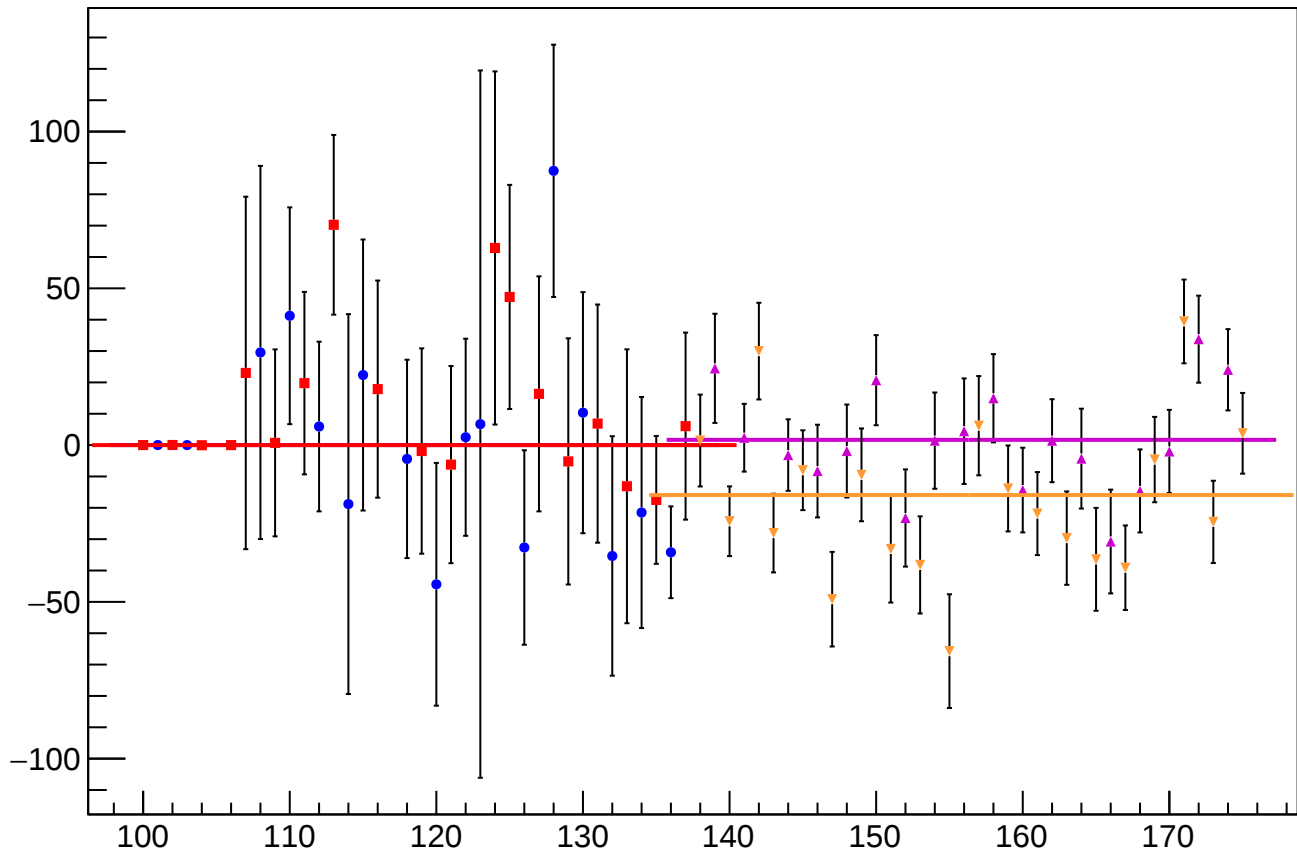
Right: 2244.559+/-0.550 χ^2/NDF : 10332522.7/35

In: 2182.972+/-0.376 χ^2/NDF : 7001974.6/34

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

All: 2188.304+/-0.262 χ^2/NDF : 13708485.1/77

diff_cav4bX_mean vs Slug, Sign Corrected



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

Left Out: -15.931 $\pm$ 3.152 χ^2/NDF : 56.0/19

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

Left In: 1.681 $\pm$ 3.300 χ^2/NDF : 23.0/17

Left: -7.529 $\pm$ 2.279 χ^2/NDF : 93.9/37

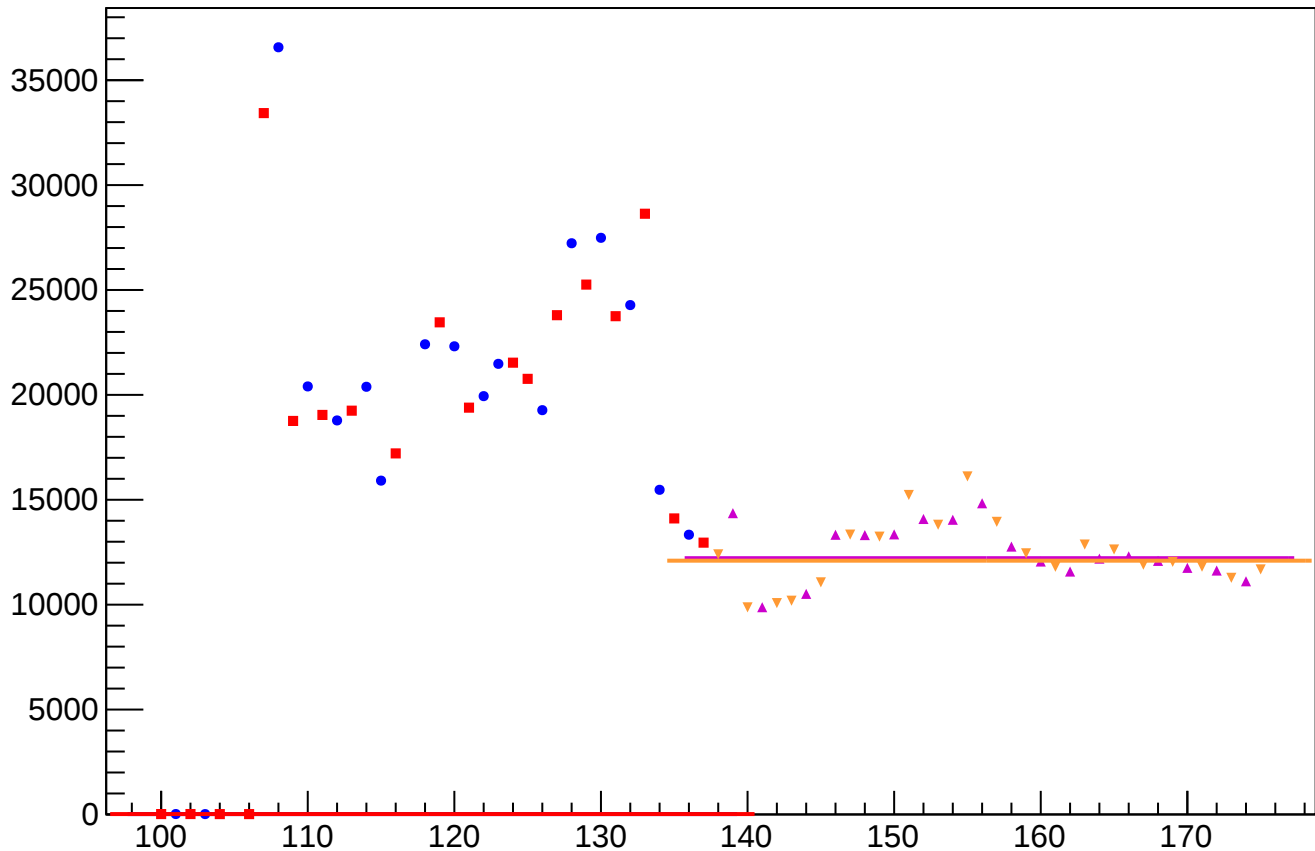
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 32.5/35

In: 0.013 $\pm$ 0.017 χ^2/NDF : 39.4/34

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 97.4/38

All: 0.004 $\pm$ 0.012 χ^2/NDF : 137.3/73

diff_cav4bX_rms vs Slug, Sign Corrected



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

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

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

Left In: 12215.309 $\pm$ 2.334 χ^2 /NDF: 337811.5/17

Left: 12153.328 $\pm$ 1.612 χ^2 /NDF: 777326.9/37

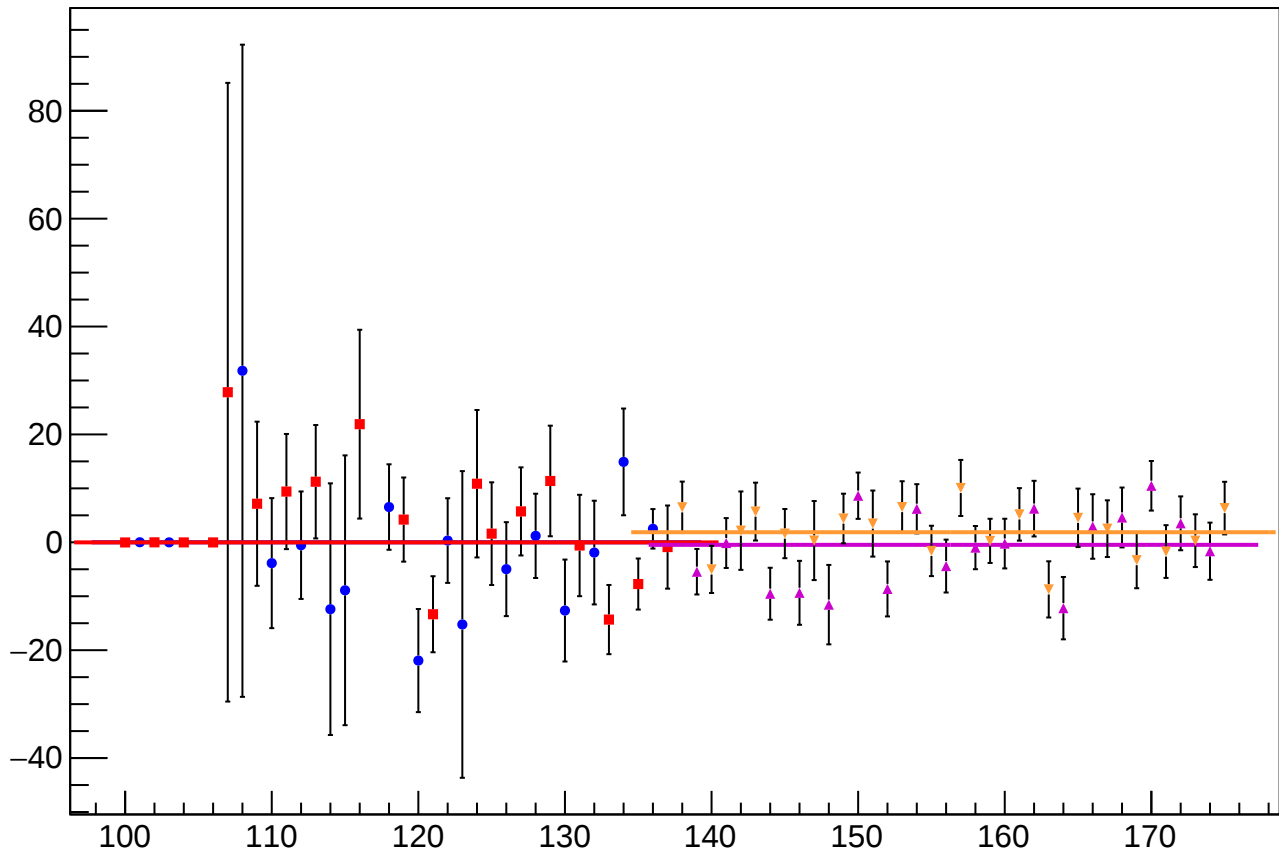
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22095216.5/35

In: 18.978 $\pm$ 0.012 χ^2 /NDF: 38637047.3/34

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

All: 18.788 $\pm$ 0.008 χ^2 /NDF: 79555593.7/73

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2/NDF : 13.0/16

Left Out: 1.868 $\pm$ 1.126 χ^2/NDF :15.8/19

Right Out: -0.014 $\pm$ -0.009 χ^2/NDF : 18.6/18

Left In: -0.471 $\pm$ -1.166 χ^2/NDF :32.7/17

Left: 0.739 $\pm$ -0.810 χ^2/NDF : 50.6/37

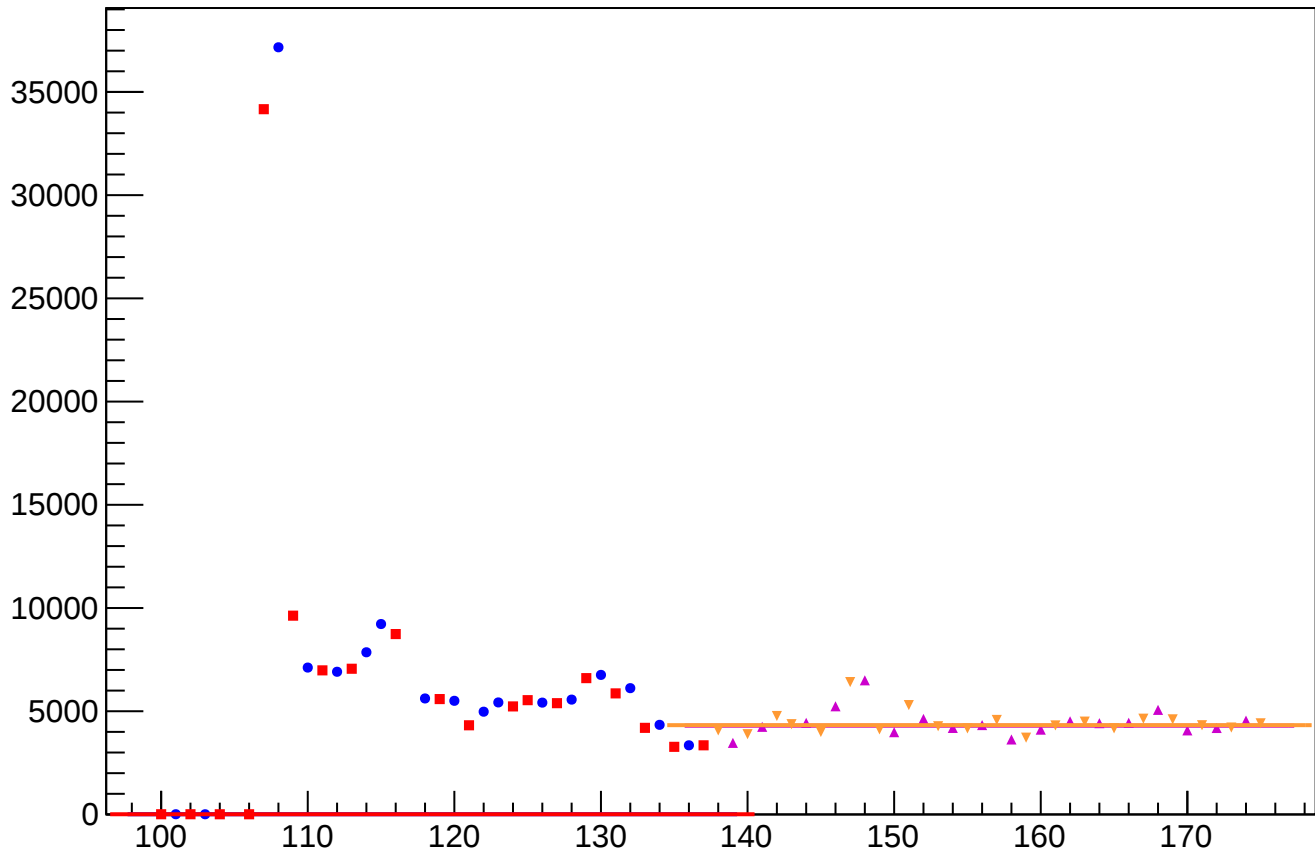
Right: -0.007 $\pm$ -0.006 χ^2/NDF : 33.0/35

In: 0.001 $\pm$ -0.009 χ^2/NDF :45.9/34

Out: -0.014 $\pm$ -0.009 χ^2/NDF :37.2/38

All: -0.007 $\pm$ -0.006 χ^2/NDF : 84.4/73

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 $\chi^2/\text{NDF}: 11114526.8/16$

Left Out: 4325.392 ± 0.796 $\chi^2/\text{NDF}: 330157.3/19$

Right Out: 9.854 ± 0.006 $\chi^2/\text{NDF}: 11159992.3/18$

Left In: 4298.674 ± 0.824 $\chi^2/\text{NDF}: 441350.5/17$

Left: 4312.494 ± 0.573 $\chi^2/\text{NDF}: 772051.3/37$

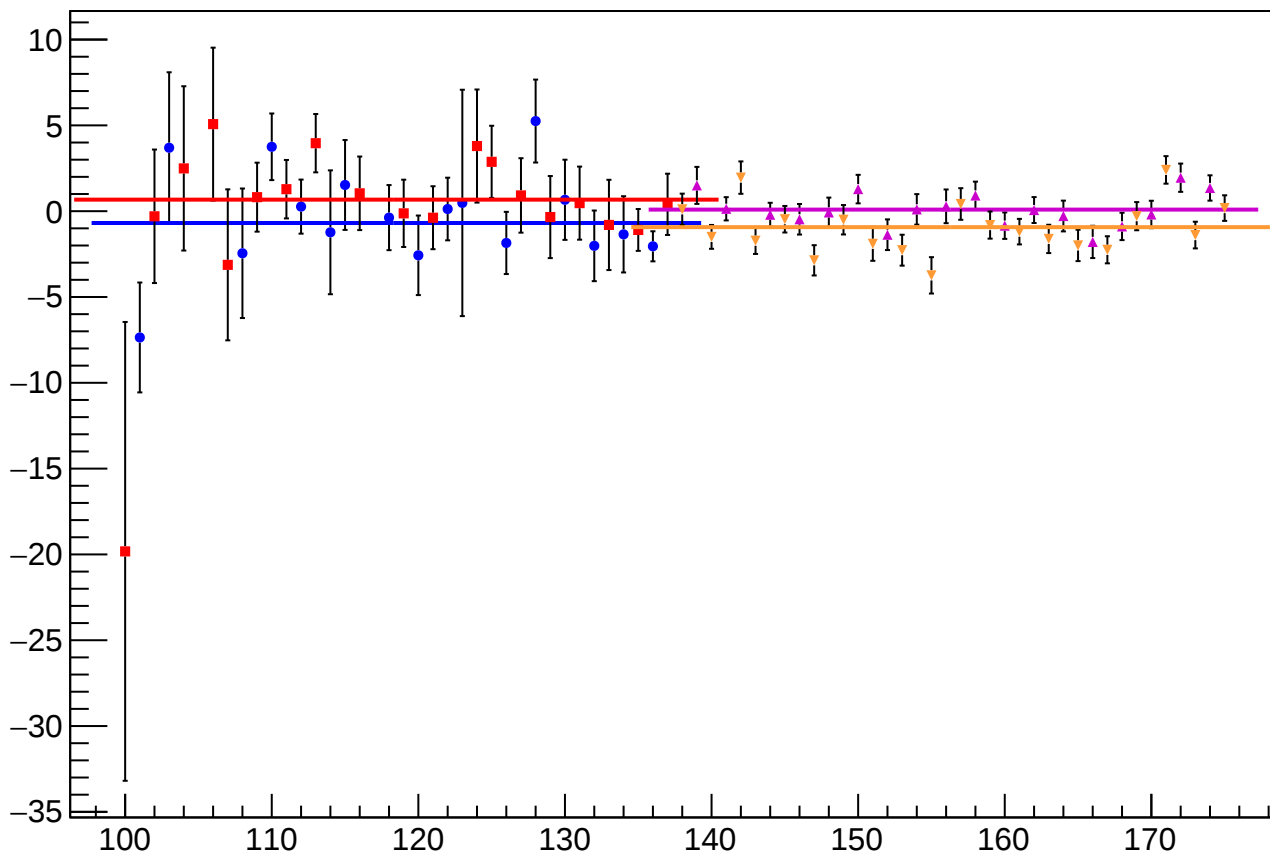
Right: 9.894 ± 0.004 $\chi^2/\text{NDF}: 22274609.0/35$

In: 10.206 ± 0.007 $\chi^2/\text{NDF}: 38626455.7/34$

Out: 10.109 ± 0.006 $\chi^2/\text{NDF}: 40859788.4/38$

All: 10.155 ± 0.004 $\chi^2/\text{NDF}: 79486362.6/73$

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.482 $\chi^2/\text{NDF}: 22.5/16$

Left Out: -0.931 ± 0.186 $\chi^2/\text{NDF}: 55.6/19$

Right Out: 0.672 ± 0.501 $\chi^2/\text{NDF}: 13.3/18$

Left In: 0.092 ± 0.194 $\chi^2/\text{NDF}: 23.4/17$

Left: -0.441 ± 0.134 $\chi^2/\text{NDF}: 93.5/37$

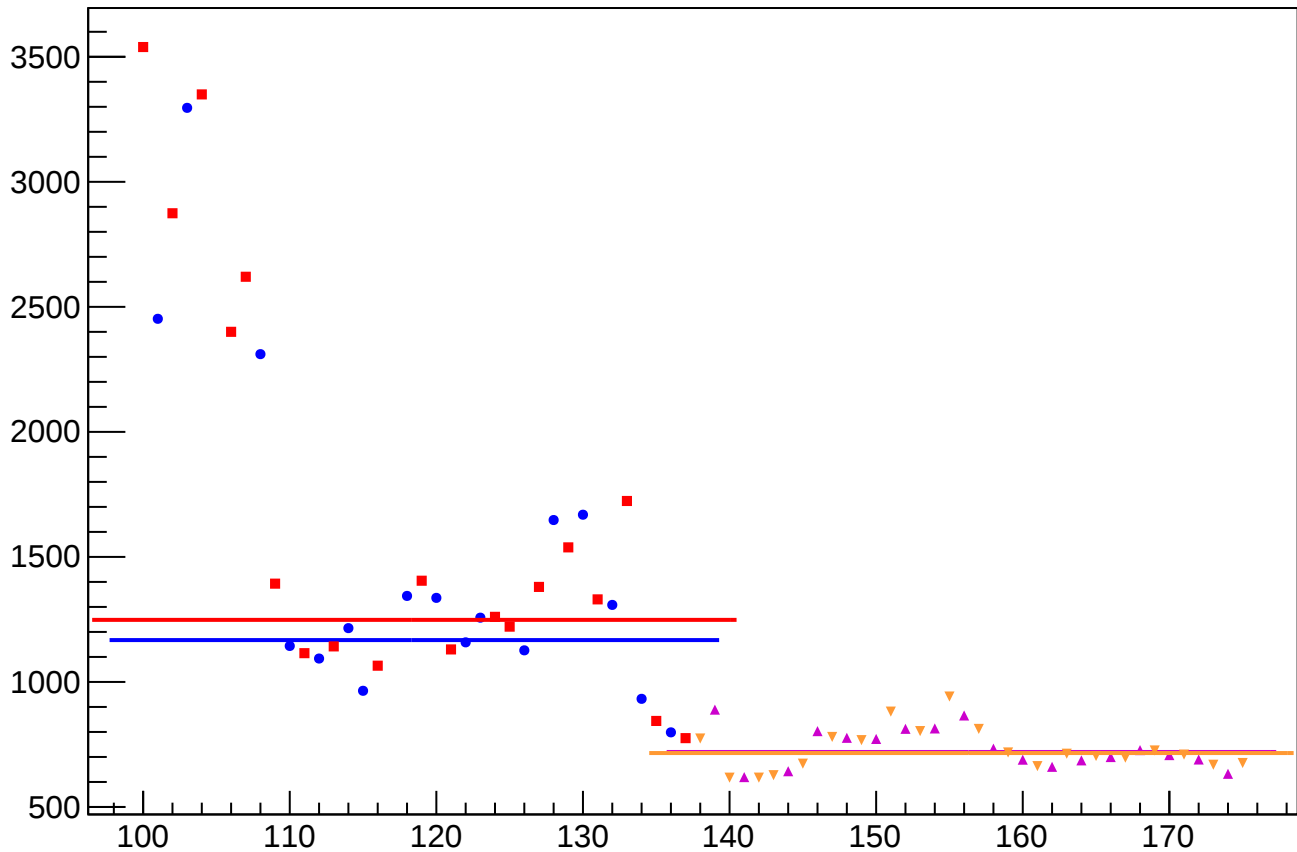
Right: -0.034 ± 0.347 $\chi^2/\text{NDF}: 39.7/35$

In: -0.017 ± 0.180 $\chi^2/\text{NDF}: 48.2/34$

Out: -0.736 ± 0.174 $\chi^2/\text{NDF}: 77.9/38$

All: -0.388 ± 0.125 $\chi^2/\text{NDF}: 134.3/73$

diff_cav4cX_rms vs Slug, Sign Corrected



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

Left Out: 715.655 ± 0.132 $\chi^2/\text{NDF}: 332819.0/19$

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

Left In: 719.905 ± 0.137 $\chi^2/\text{NDF}: 290913.9/17$

Left: 717.688 ± 0.095 $\chi^2/\text{NDF}: 624231.9/37$

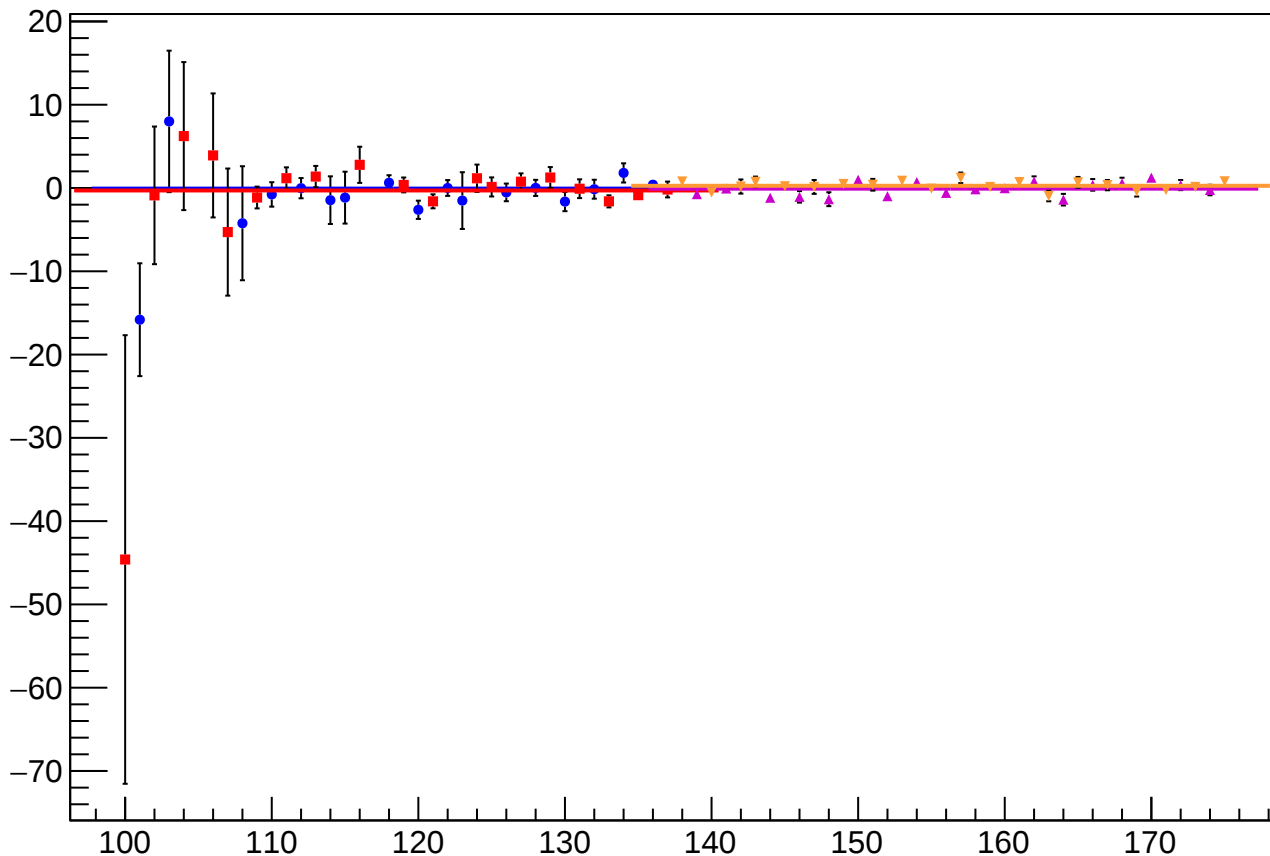
Right: 1206.306 ± 0.246 $\chi^2/\text{NDF}: 3259405.5/35$

In: 782.388 ± 0.127 $\chi^2/\text{NDF}: 3350742.5/34$

Out: 780.288 ± 0.123 $\chi^2/\text{NDF}: 3975253.3/38$

All: 781.303 ± 0.089 $\chi^2/\text{NDF}: 7326136.1/73$

diff_cav4cY_mean vs Slug, Sign Corrected



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

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

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

Left In: -0.079 ± 0.140 χ^2/NDF : 32.2/17

Left: 0.100 ± 0.097 χ^2/NDF : 50.8/37

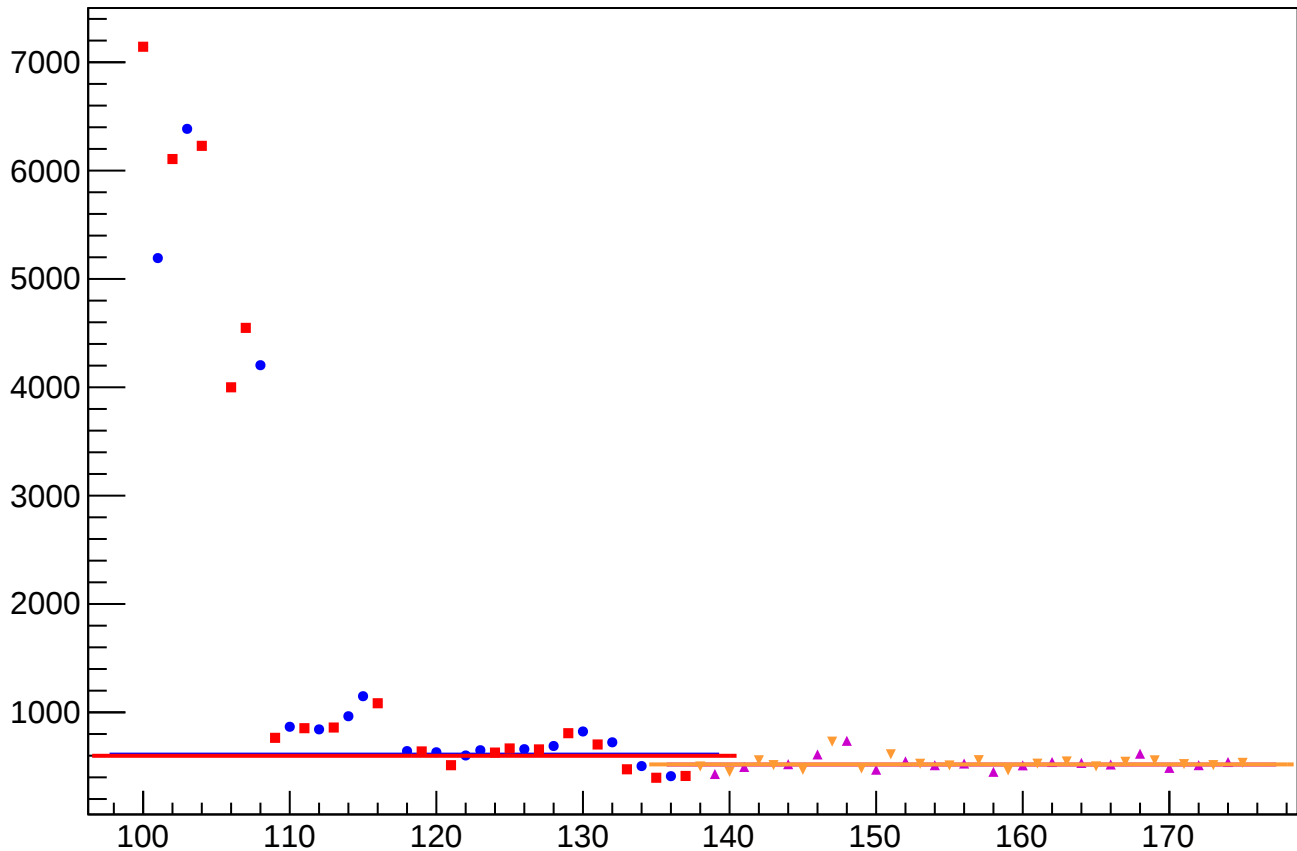
Right: -0.185 ± 0.188 χ^2/NDF : 39.8/35

In: -0.077 ± 0.124 χ^2/NDF : 51.4/34

Out: 0.150 ± 0.120 χ^2/NDF : 39.2/38

All: 0.040 ± 0.086 χ^2/NDF : 92.4/73

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 519.455 $\pm$ 0.096 χ^2 /NDF: 282283.4/19

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

Left In: 518.145 $\pm$ 0.099 χ^2 /NDF: 349804.1/17

Left: 518.824 $\pm$ 0.069 χ^2 /NDF: 632178.0/37

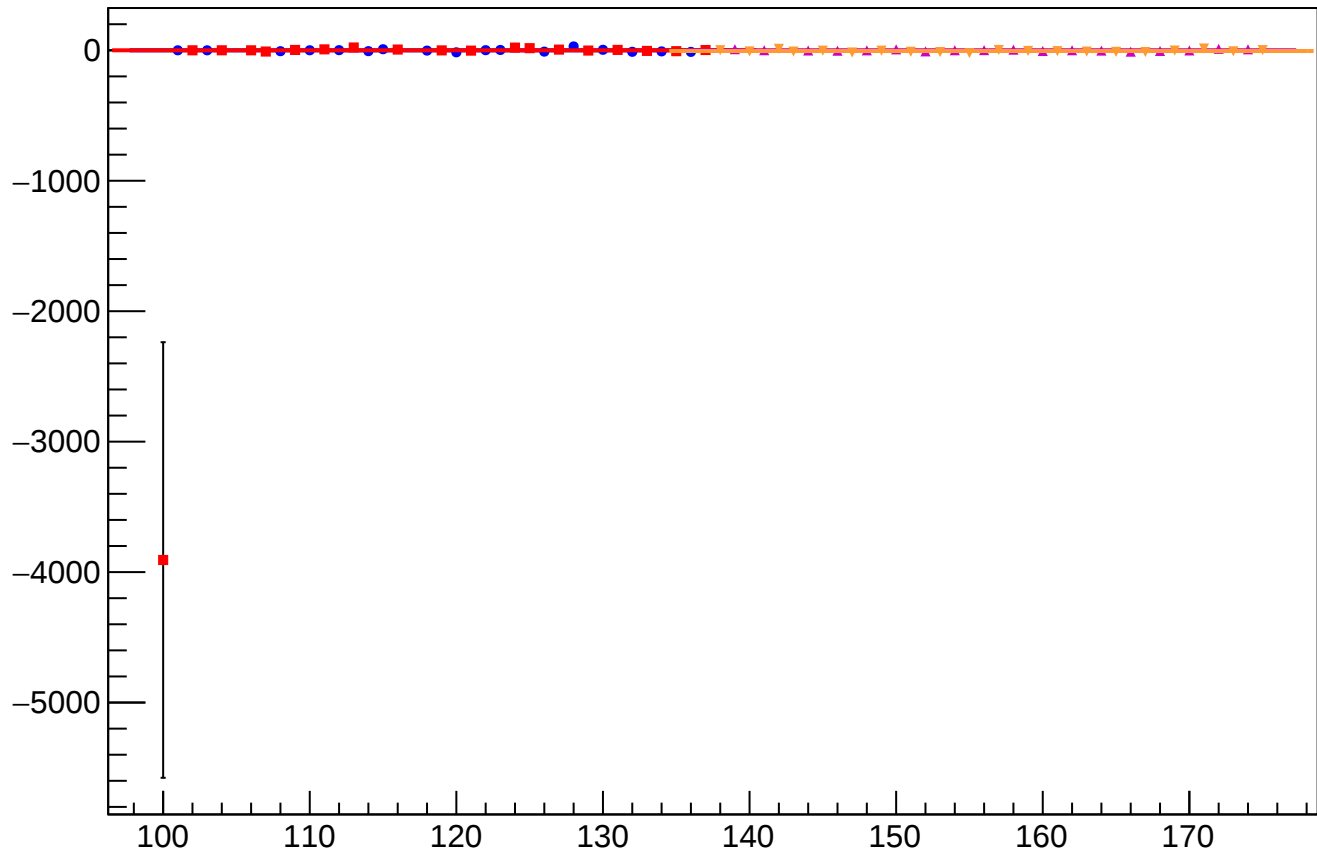
Right: 604.304 $\pm$ 0.133 χ^2 /NDF: 6689999.6/35

In: 537.773 $\pm$ 0.088 χ^2 /NDF: 3668725.8/34

Out: 535.973 $\pm$ 0.085 χ^2 /NDF: 3978708.4/38

All: 536.843 $\pm$ 0.061 χ^2 /NDF: 7647650.8/73

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2 /NDF: 15.6/16

Left Out: -5.352 $\pm$ 1.082 χ^2 /NDF: 55.6/19

Right Out: 0.027 $\pm$ 0.020 χ^2 /NDF: 17.9/18

Left In: 0.578 $\pm$ 1.131 χ^2 /NDF: 23.5/17

Left: -2.519 $\pm$ 0.782 χ^2 /NDF: 93.4/37

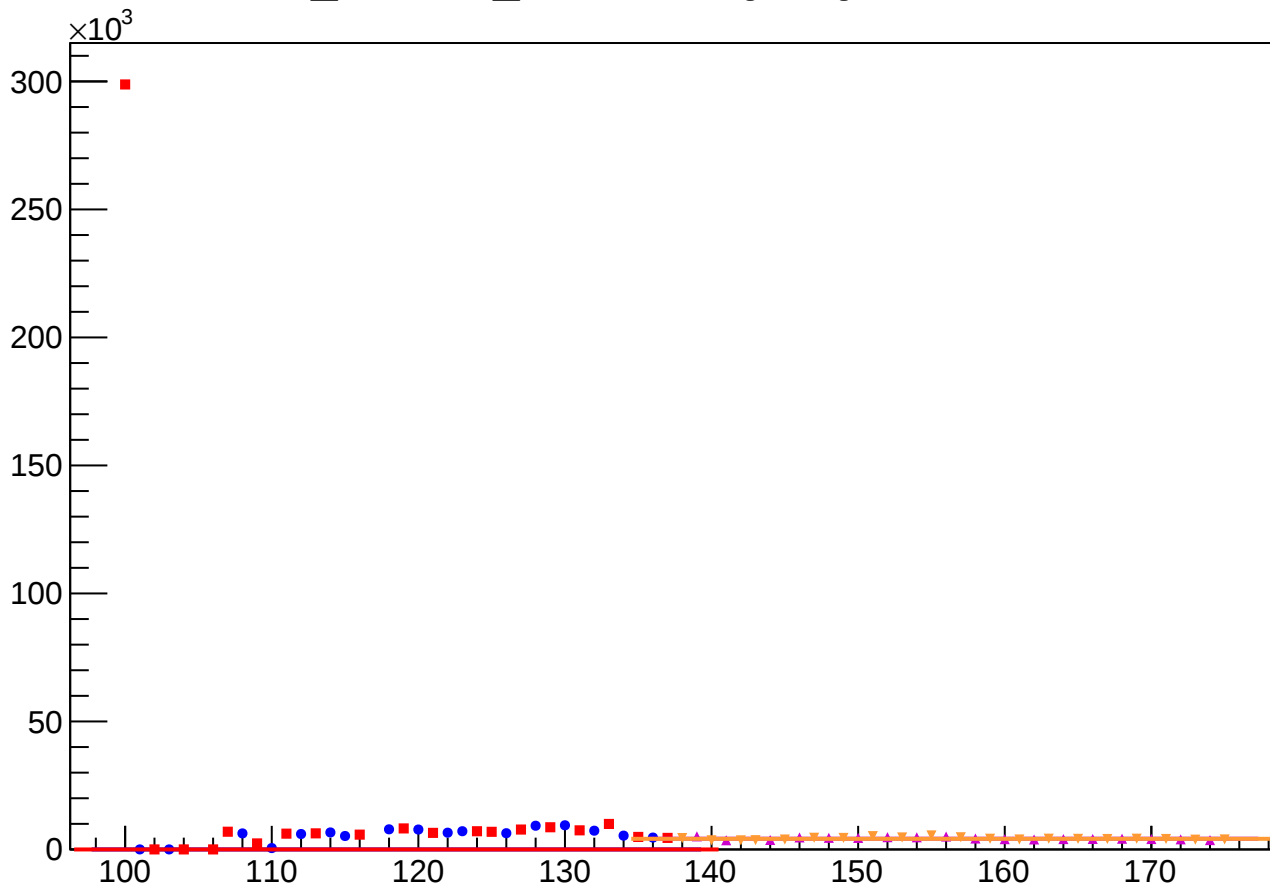
Right: 0.004 $\pm$ 0.014 χ^2 /NDF: 36.4/35

In: -0.021 $\pm$ 0.021 χ^2 /NDF: 39.4/34

Out: 0.025 $\pm$ 0.020 χ^2 /NDF: 98.2/38

All: 0.003 $\pm$ 0.014 χ^2 /NDF: 140.2/73

diff_cav4dX_rms vs Slug, Sign Corrected



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

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

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

Left In: 4190.827 $\pm$ 0.800 χ^2 /NDF: 303100.1/17

Left: 4174.284 $\pm$ 0.553 χ^2 /NDF: 660850.1/37

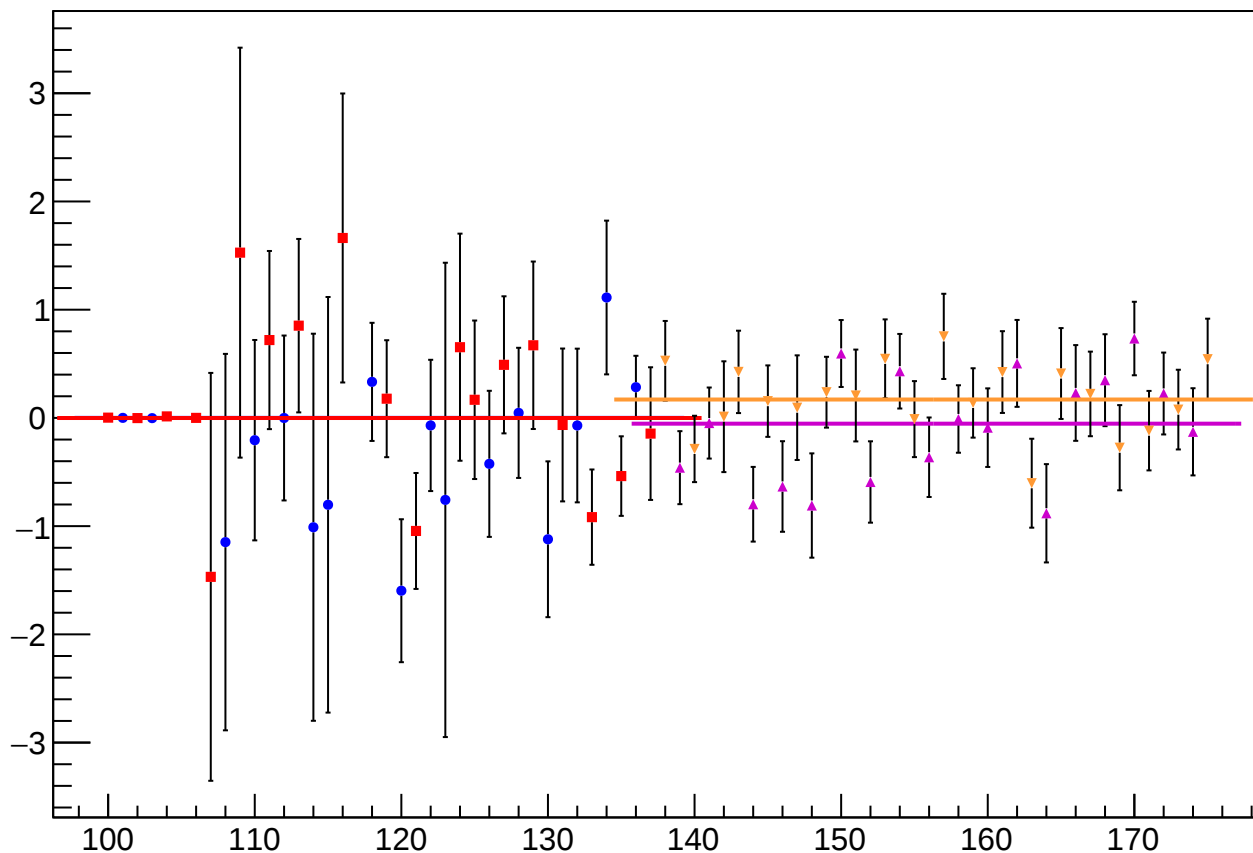
Right: 17.303 $\pm$ 0.010 χ^2 /NDF: 21322069.2/35

In: 18.750 $\pm$ 0.015 χ^2 /NDF: 38016542.1/34

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

All: 18.699 $\pm$ 0.010 χ^2 /NDF: 78497840.4/73

diff_cav4dY_mean vs Slug, Sign Corrected



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

Left Out: 0.170 $\pm$ 0.084 χ^2 /NDF:14.6/19

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

Left In: -0.053 $\pm$ 0.087 χ^2 /NDF:32.2/17

Left: 0.063 $\pm$ 0.060 χ^2 /NDF: 50.2/37

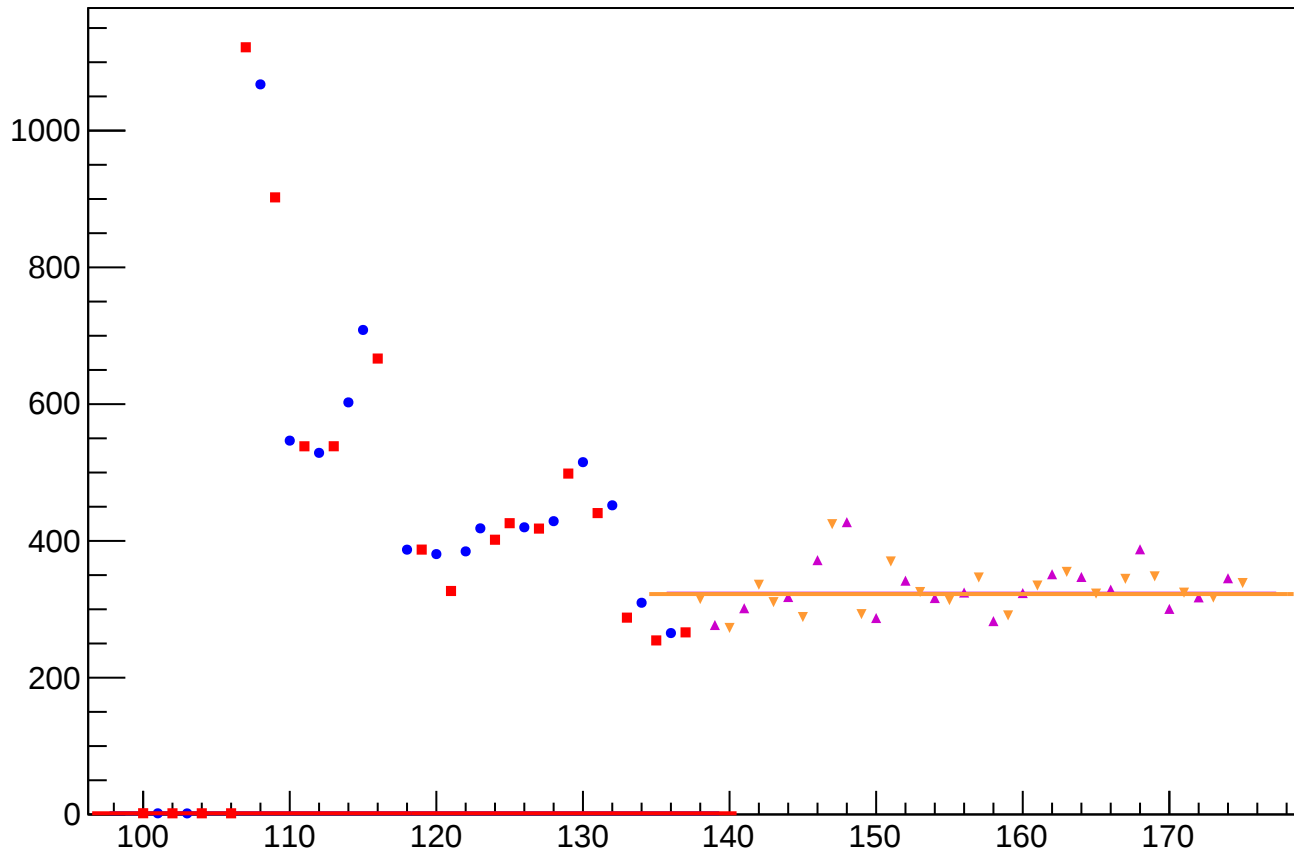
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 31.8/35

In: 0.000 $\pm$ 0.002 χ^2 /NDF:46.3/34

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:36.7/38

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 83.1/73

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 322.280+/-0.059 χ^2/NDF : 269615.5/19

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

Left In: 322.848+/-0.062 χ^2/NDF : 310985.1/17

Left: 322.552+/-0.043 χ^2/NDF : 580644.7/37

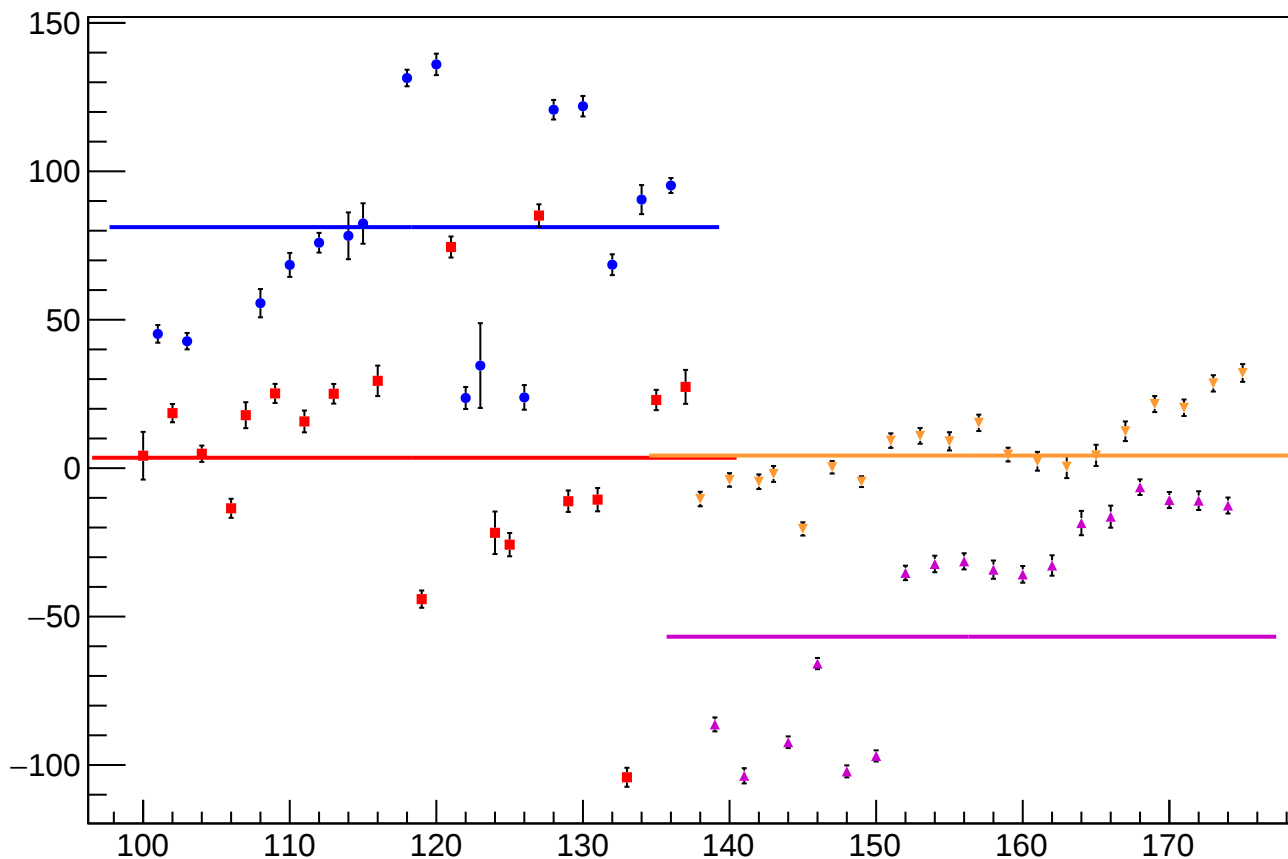
Right: 1.714+/-0.001 χ^2/NDF : 21797153.2/35

In: 1.872+/-0.001 χ^2/NDF : 38422303.9/34

Out: 1.900+/-0.001 χ^2/NDF : 40269233.1/38

All: 1.887+/-0.001 χ^2/NDF : 78691736.4/73

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 4.256 ± 0.581 $\chi^2/\text{NDF}: 491.4/19$

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

Left In: -56.782 ± 0.597 $\chi^2/\text{NDF}: 3545.0/17$

Left: -25.383 ± 0.416 $\chi^2/\text{NDF}: 9405.0/37$

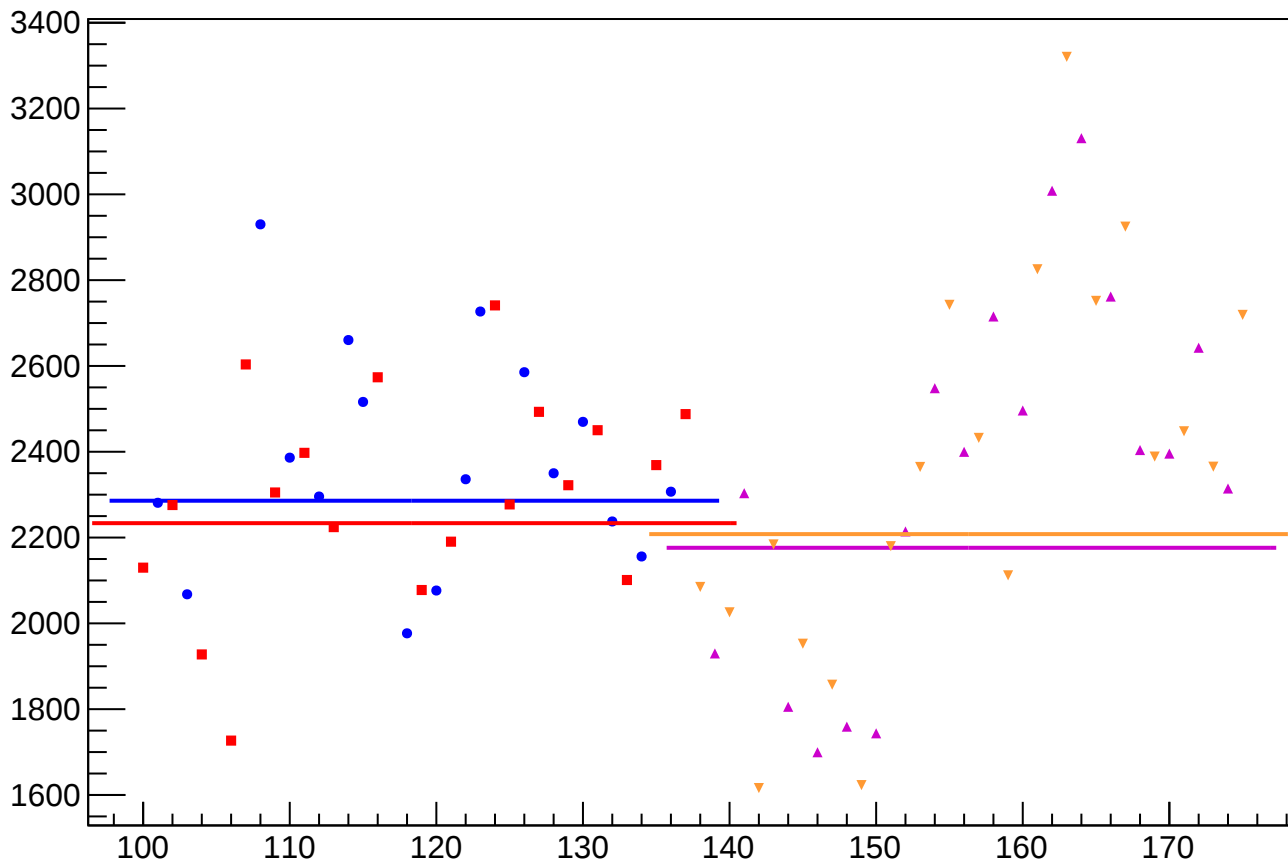
Right: 40.415 ± 0.610 $\chi^2/\text{NDF}: 8348.3/35$

In: -13.627 ± 0.495 $\chi^2/\text{NDF}: 21934.9/34$

Out: 4.016 ± 0.478 $\chi^2/\text{NDF}: 3091.0/38$

All: -4.492 ± 0.344 $\chi^2/\text{NDF}: 25682.8/73$

diff_bpm0i01X_rms vs Slug, Sign Corrected



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

Left Out: 2208.022+/-0.410 χ^2/NDF : 977636.3/19

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

Left In: 2176.161+/-0.422 χ^2/NDF : 906794.2/17

Left: 2192.550+/-0.294 χ^2/NDF : 1887356.1/37

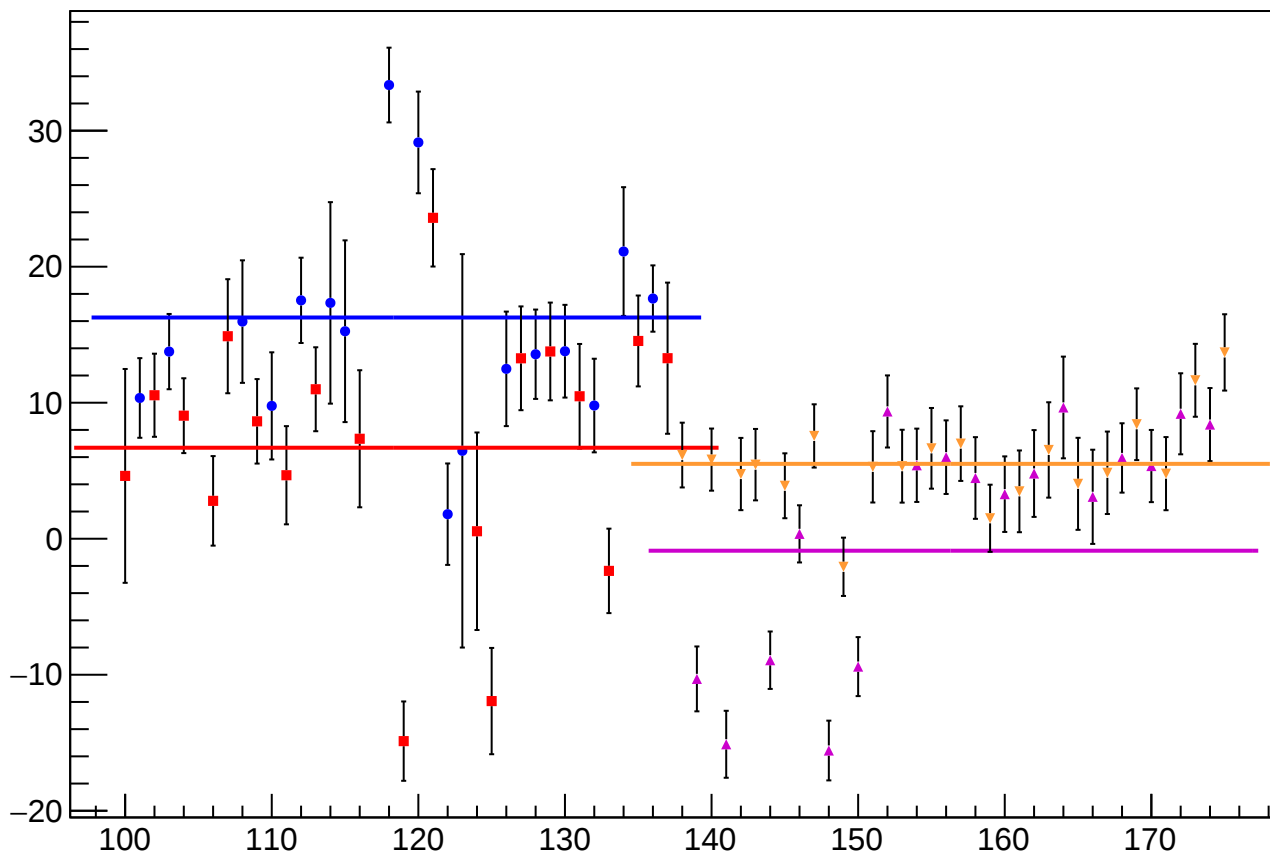
Right: 2258.395+/-0.432 χ^2/NDF : 259847.1/35

In: 2210.468+/-0.350 χ^2/NDF : 1037214.5/34

Out: 2216.239+/-0.338 χ^2/NDF : 1125729.6/38

All: 2213.456+/-0.243 χ^2/NDF : 2163084.8/73

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.265 $\pm$ 0.872 χ^2 /NDF: 80.8/16

Left Out: 5.504 $\pm$ 0.591 χ^2 /NDF: 32.8/19

Right Out: 6.690 $\pm$ 0.831 χ^2 /NDF: 134.0/18

Left In: -0.881 $\pm$ 0.612 χ^2 /NDF: 204.7/17

Left: 2.425 $\pm$ 0.425 χ^2 /NDF: 293.8/37

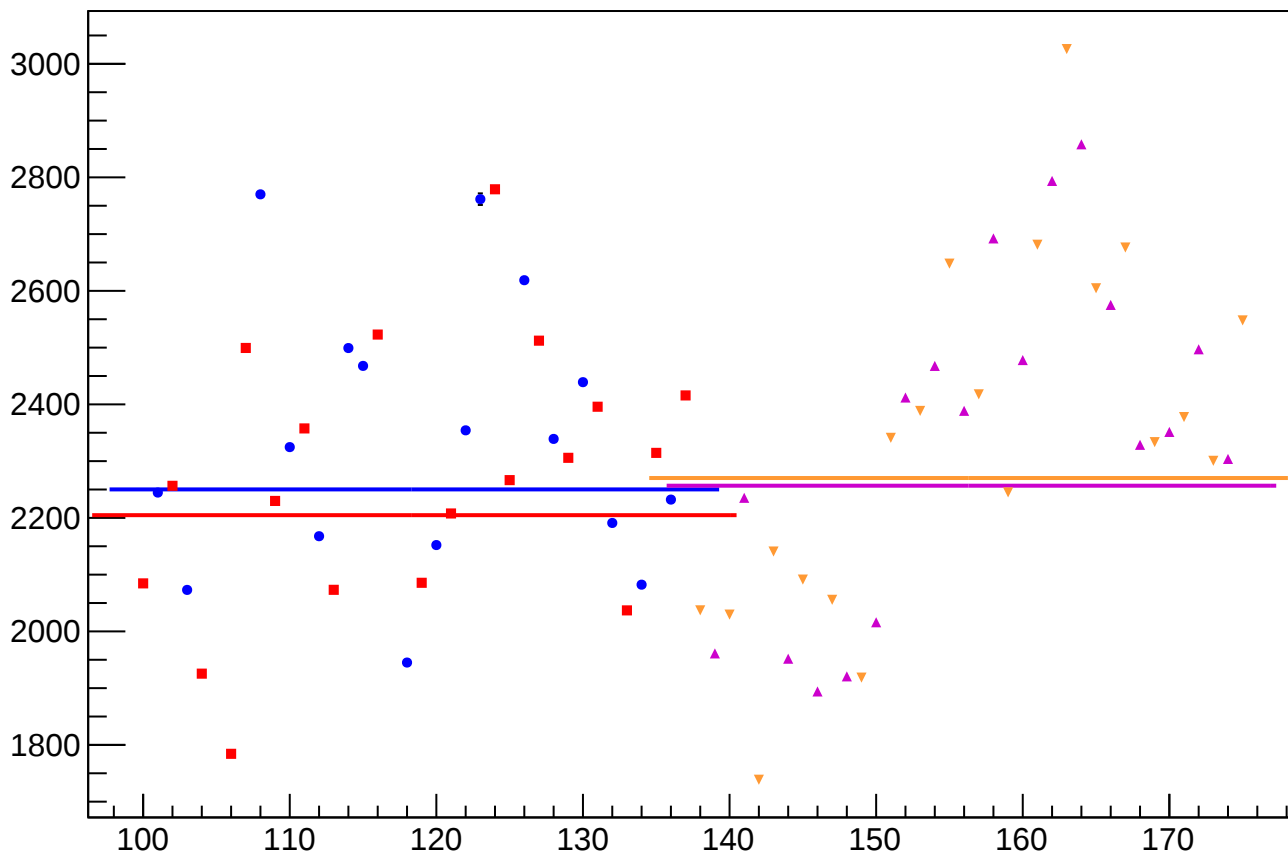
Right: 11.249 $\pm$ 0.601 χ^2 /NDF: 278.0/35

In: 4.783 $\pm$ 0.501 χ^2 /NDF: 544.7/34

Out: 5.903 $\pm$ 0.481 χ^2 /NDF: 168.1/38

All: 5.365 $\pm$ 0.347 χ^2 /NDF: 715.4/73

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 2256.709+/-0.433 χ^2/NDF : 425279.4/17

Left: 2263.715+/-0.301 χ^2/NDF : 888044.0/37

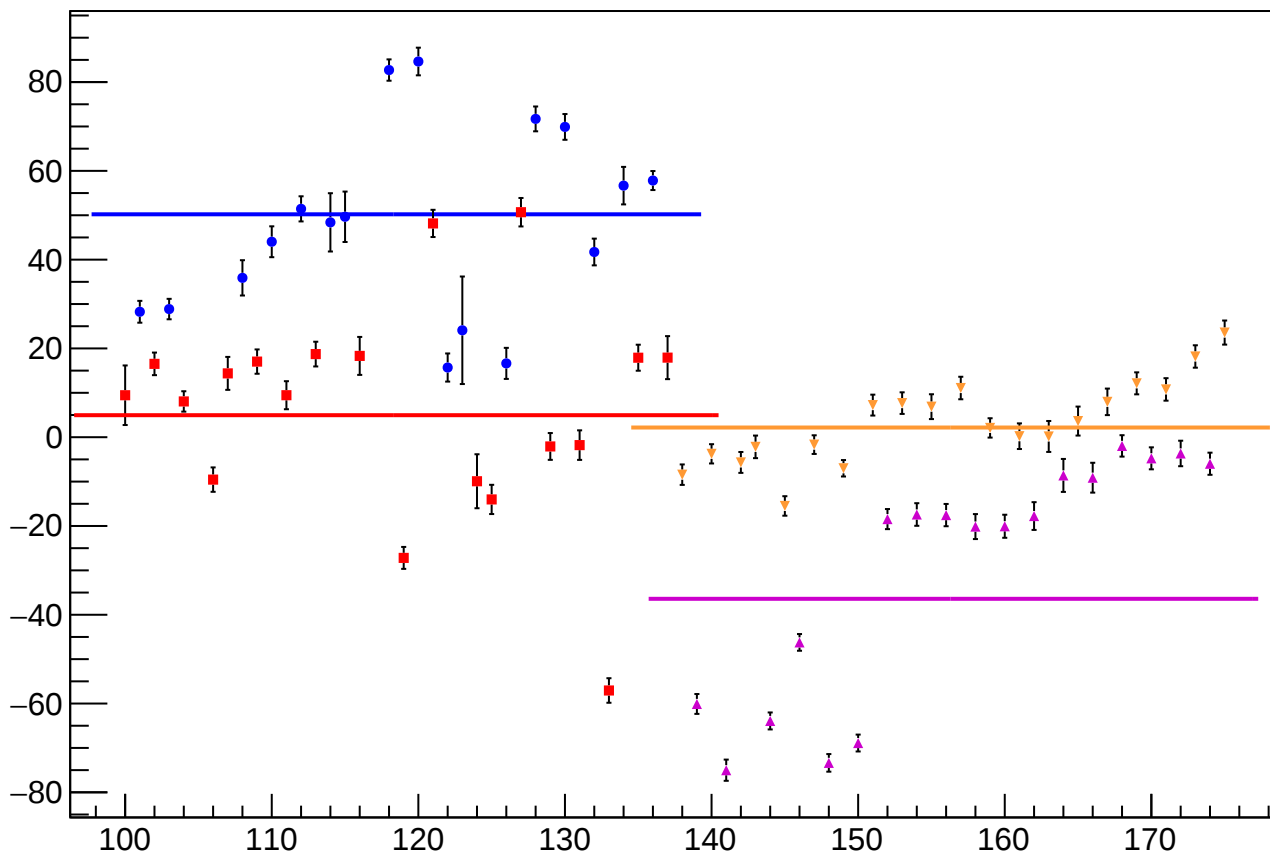
Right: 2226.396+/-0.425 χ^2/NDF : 226647.4/35

In: 2254.550+/-0.354 χ^2/NDF : 522932.7/34

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

All: 2251.280+/-0.245 χ^2/NDF : 1119828.0/73

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

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

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

Left In: -36.407 ± 0.566 χ^2/NDF : 2299.0/17

Left: -16.519 ± 0.394 χ^2/NDF : 4992.4/37

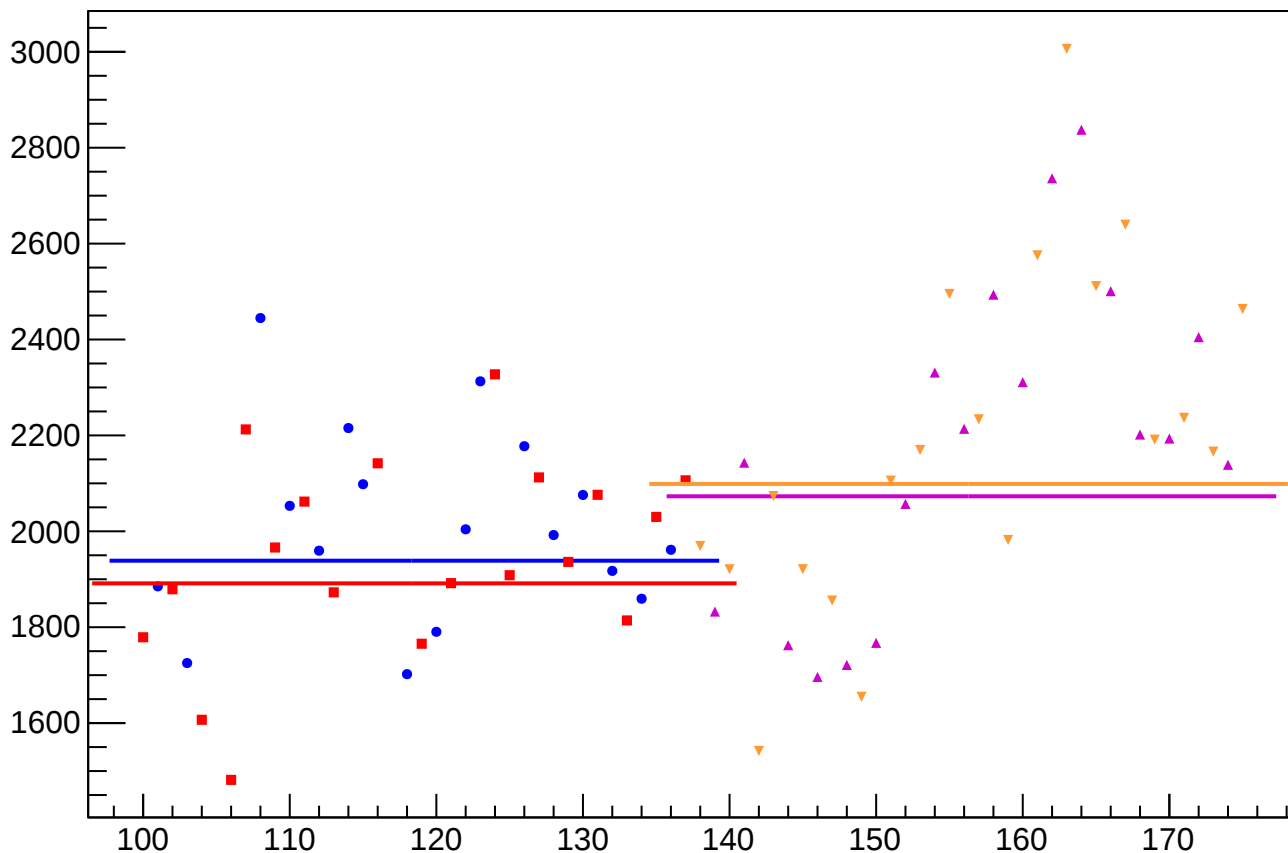
Right: 26.432 ± 0.517 χ^2/NDF : 4002.4/35

In: -5.040 ± 0.452 χ^2/NDF : 11620.5/34

Out: 3.213 ± 0.435 χ^2/NDF : 1567.1/38

All: -0.755 ± 0.313 χ^2/NDF : 13360.8/73

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

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

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

Left In: 2073.036 ± 0.400 $\chi^2/\text{NDF}: 606350.4/17$

Left: 2086.320 ± 0.278 $\chi^2/\text{NDF}: 1282123.4/37$

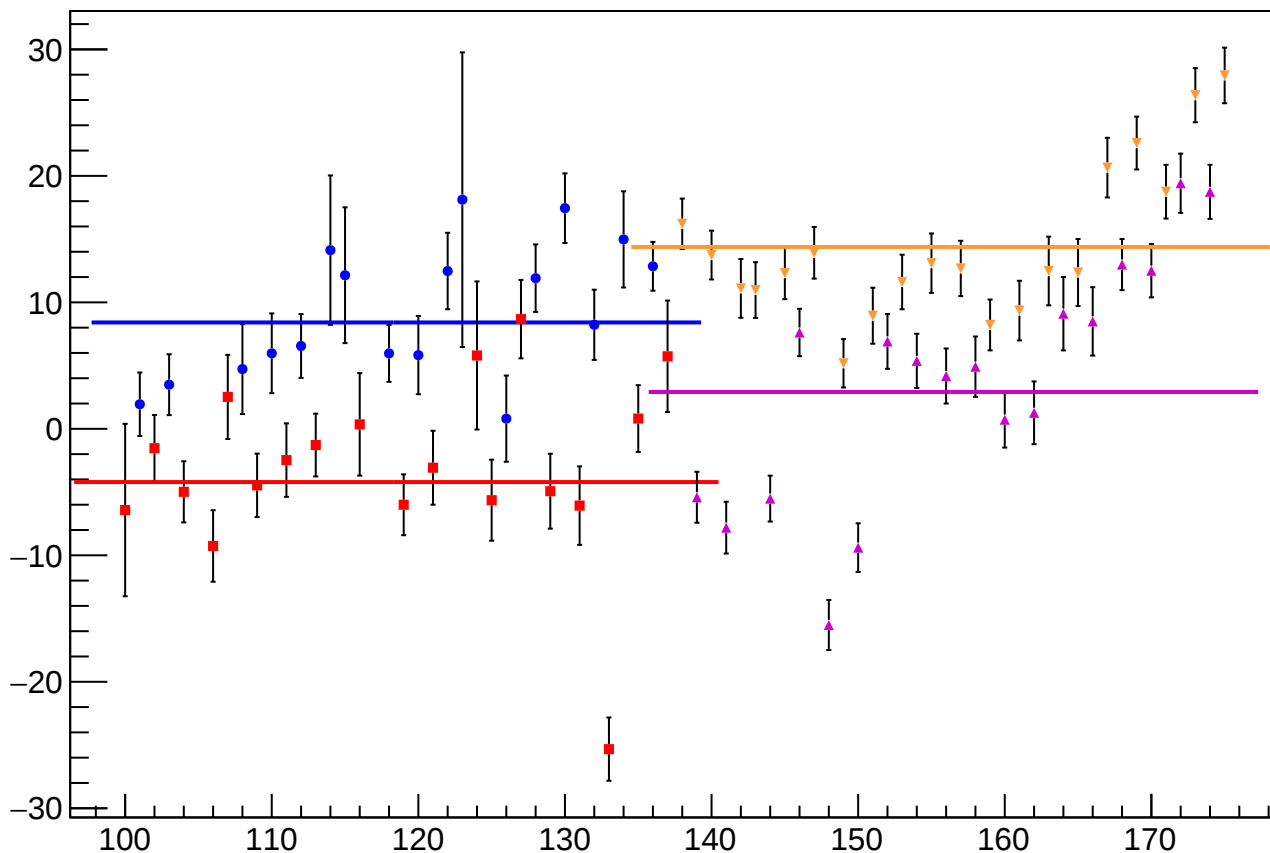
Right: 1913.873 ± 0.366 $\chi^2/\text{NDF}: 250923.8/35$

In: 2024.386 ± 0.319 $\chi^2/\text{NDF}: 747344.4/34$

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

All: 2023.030 ± 0.222 $\chi^2/\text{NDF}: 1673808.7/73$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 14.380 ± 0.486 $\chi^2/\text{NDF}: 149.5/19$

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

Left In: 2.914 ± 0.506 $\chi^2/\text{NDF}: 366.2/17$

Left: 8.873 ± 0.350 $\chi^2/\text{NDF}: 782.9/37$

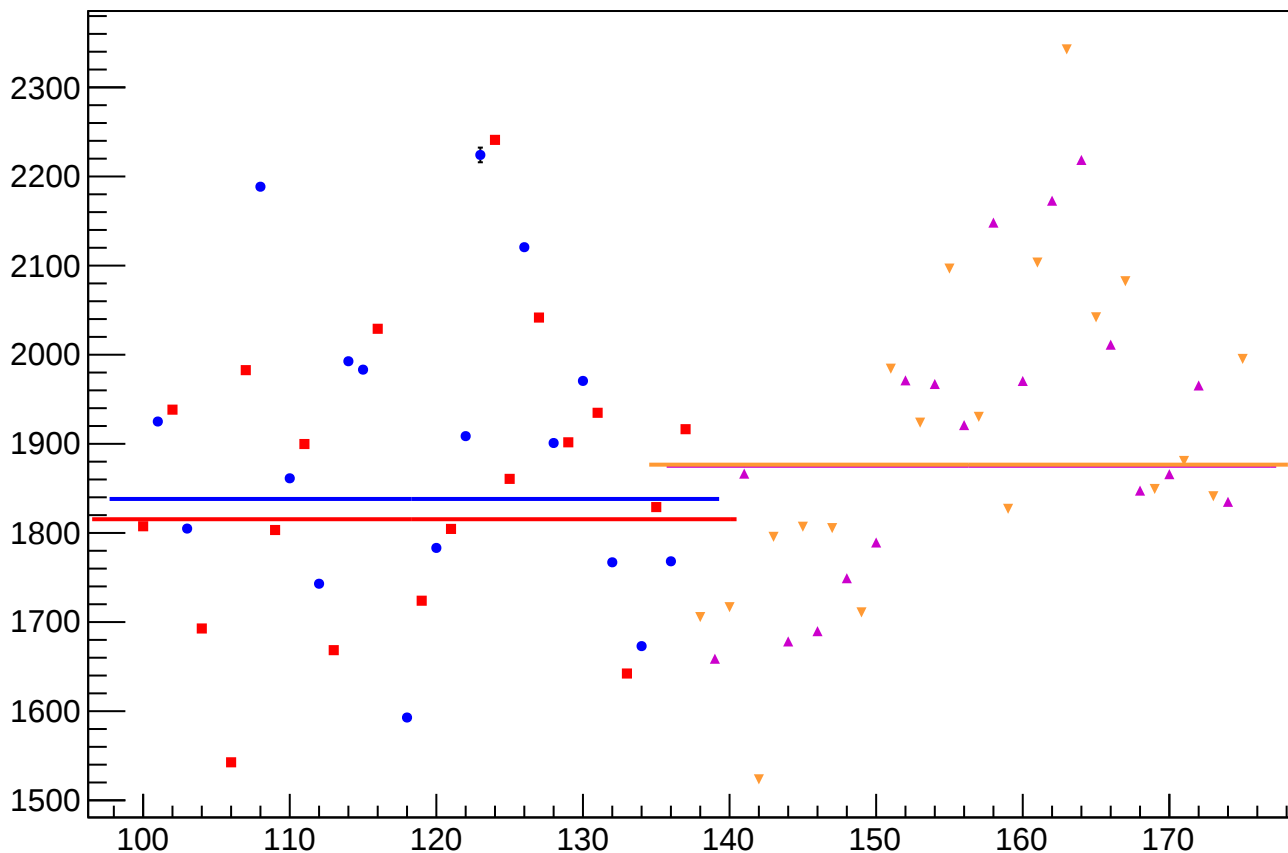
Right: 1.840 ± 0.492 $\chi^2/\text{NDF}: 321.6/35$

In: 4.760 ± 0.412 $\chi^2/\text{NDF}: 450.5/34$

Out: 8.123 ± 0.396 $\chi^2/\text{NDF}: 754.8/38$

All: 6.508 ± 0.286 $\chi^2/\text{NDF}: 1239.9/73$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

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

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

Left In: 1875.367 $\pm$ 0.358 χ^2/NDF : 182719.3/17

Left: 1876.025 $\pm$ 0.248 χ^2/NDF : 412789.5/37

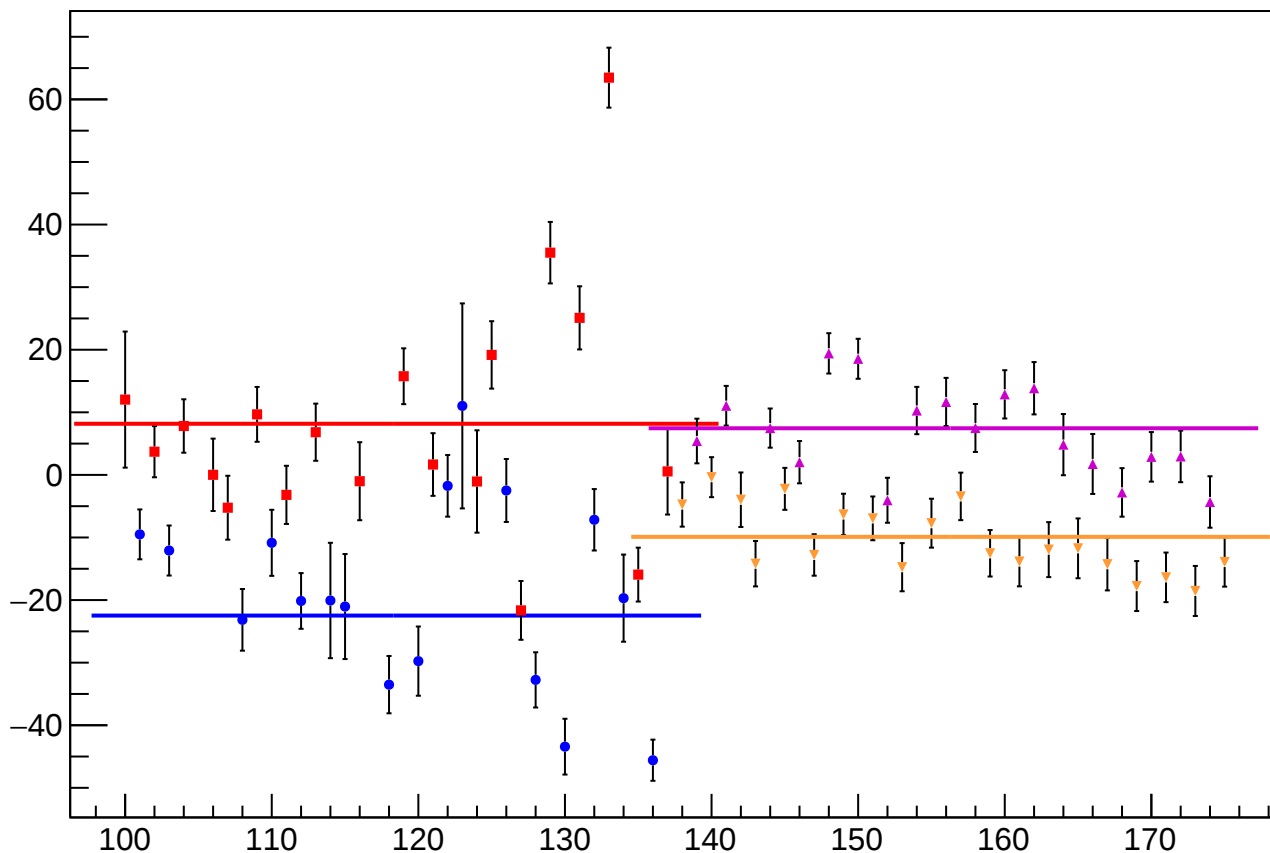
Right: 1826.303 $\pm$ 0.348 χ^2/NDF : 171362.3/35

In: 1862.870 $\pm$ 0.291 χ^2/NDF : 269237.1/34

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

All: 1859.309 $\pm$ 0.202 χ^2/NDF : 597689.2/73

diff_bpm0l01X_mean vs Slug, Sign Corrected



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

Left Out: -9.898 ± 0.844 $\chi^2/\text{NDF}: 42.2/19$

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

Left In: 7.450 ± 0.876 $\chi^2/\text{NDF}: 65.8/17$

Left: -1.548 ± 0.608 $\chi^2/\text{NDF}: 311.4/37$

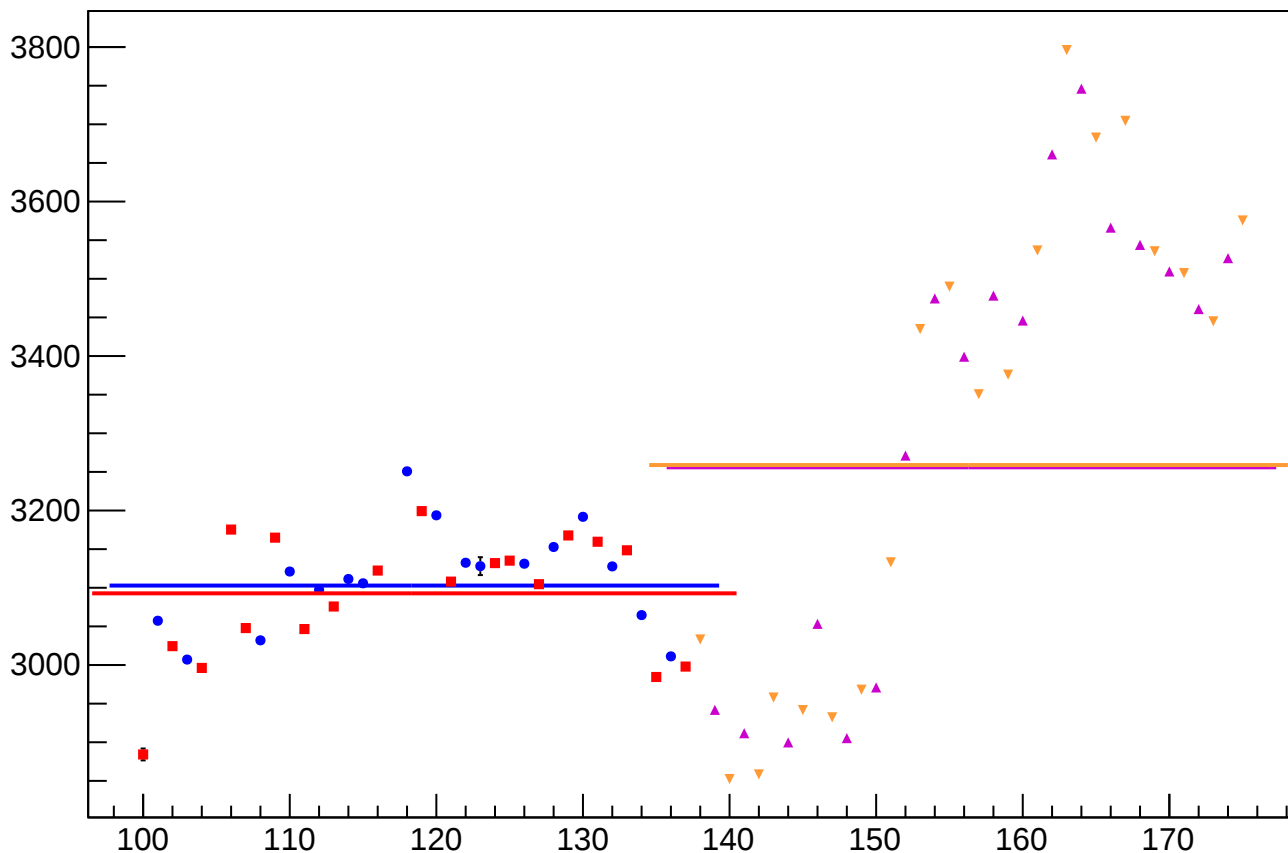
Right: -6.656 ± 0.831 $\chi^2/\text{NDF}: 771.3/35$

In: -3.012 ± 0.706 $\chi^2/\text{NDF}: 628.6/34$

Out: -3.622 ± 0.682 $\chi^2/\text{NDF}: 478.4/38$

All: -3.328 ± 0.491 $\chi^2/\text{NDF}: 1107.4/73$

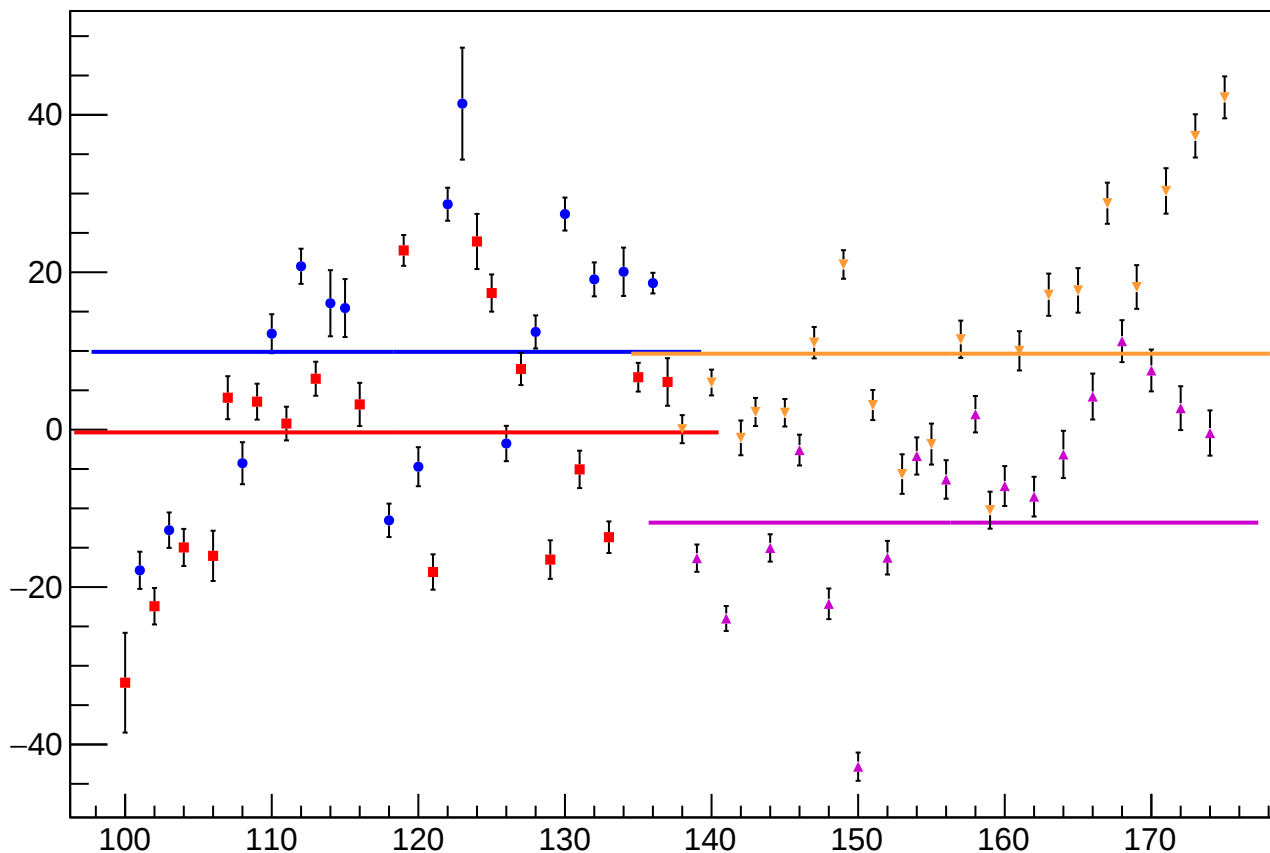
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.846 ± 0.845 $\chi^2/\text{NDF}: 7344.9/16$
 Left Out: 3258.884 ± 0.597 $\chi^2/\text{NDF}: 253763.2/19$
 Right Out: 3092.795 ± 0.818 $\chi^2/\text{NDF}: 7763.4/18$
 Left In: 3255.943 ± 0.619 $\chi^2/\text{NDF}: 212971.7/17$

Left: 3257.469 ± 0.430 $\chi^2/\text{NDF}: 466746.5/37$
 Right: 3097.657 ± 0.588 $\chi^2/\text{NDF}: 15181.4/35$
 In: 3202.422 ± 0.499 $\chi^2/\text{NDF}: 241677.3/34$
 Out: 3201.189 ± 0.482 $\chi^2/\text{NDF}: 288446.3/38$
 All: 3201.784 ± 0.347 $\chi^2/\text{NDF}: 530126.8/73$

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

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

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

Left In: -11.813 ± 0.518 $\chi^2/\text{NDF}: 689.7/17$

Left: -0.535 ± 0.357 $\chi^2/\text{NDF}: 2244.6/37$

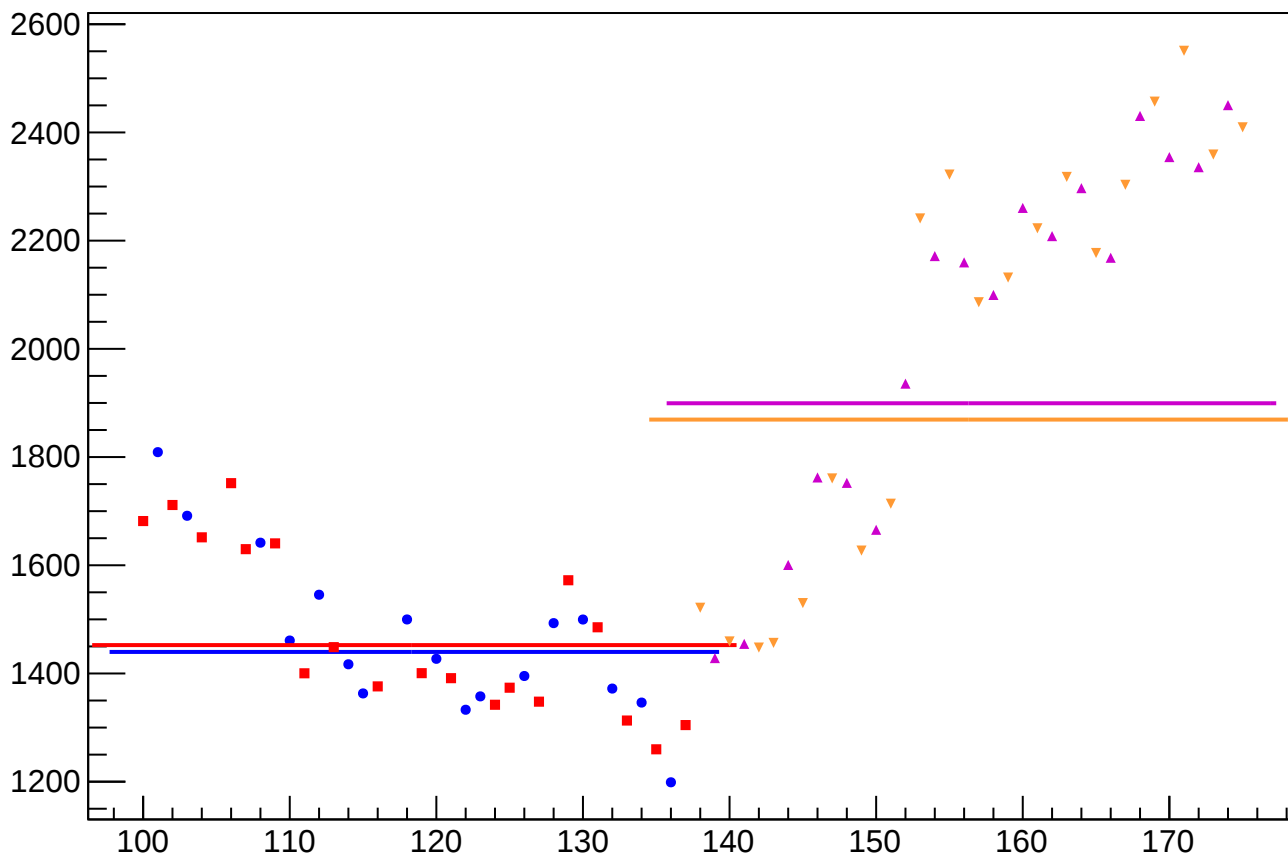
Right: 4.654 ± 0.391 $\chi^2/\text{NDF}: 1503.6/35$

In: -1.791 ± 0.380 $\chi^2/\text{NDF}: 2202.9/34$

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

All: 1.824 ± 0.264 $\chi^2/\text{NDF}: 3844.2/73$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

Left Out: 1869.266 +/- 0.348 χ^2/NDF : 1178622.0/19

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

Left In: 1899.432 +/- 0.366 χ^2/NDF : 867471.6/17

Left: 1883.583 +/- 0.252 χ^2/NDF : 2049652.8/37

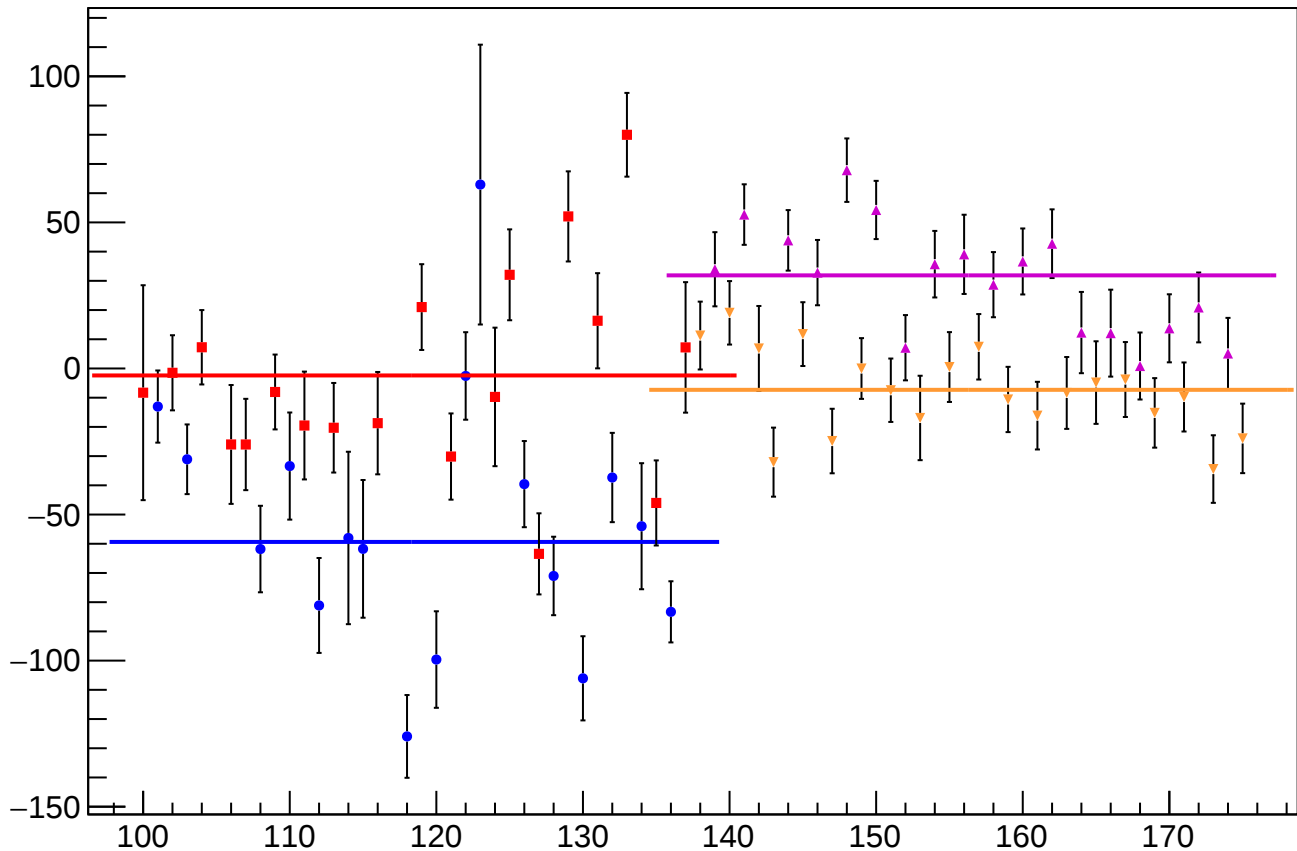
Right: 1446.283 +/- 0.277 χ^2/NDF : 311864.1/35

In: 1687.162 +/- 0.269 χ^2/NDF : 1766617.7/34

Out: 1682.558 +/- 0.259 χ^2/NDF : 1958522.6/38

All: 1684.772 +/- 0.186 χ^2/NDF : 3725292.4/73

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.374 ± 3.729 χ^2/NDF : 92.9/16

Left Out: -7.309 ± 2.637 χ^2/NDF : 31.2/19

Right Out: -2.388 ± 3.630 χ^2/NDF : 93.9/18

Left In: 31.870 ± 2.731 χ^2/NDF : 47.0/17

Left: 11.593 ± 1.897 χ^2/NDF : 184.7/37

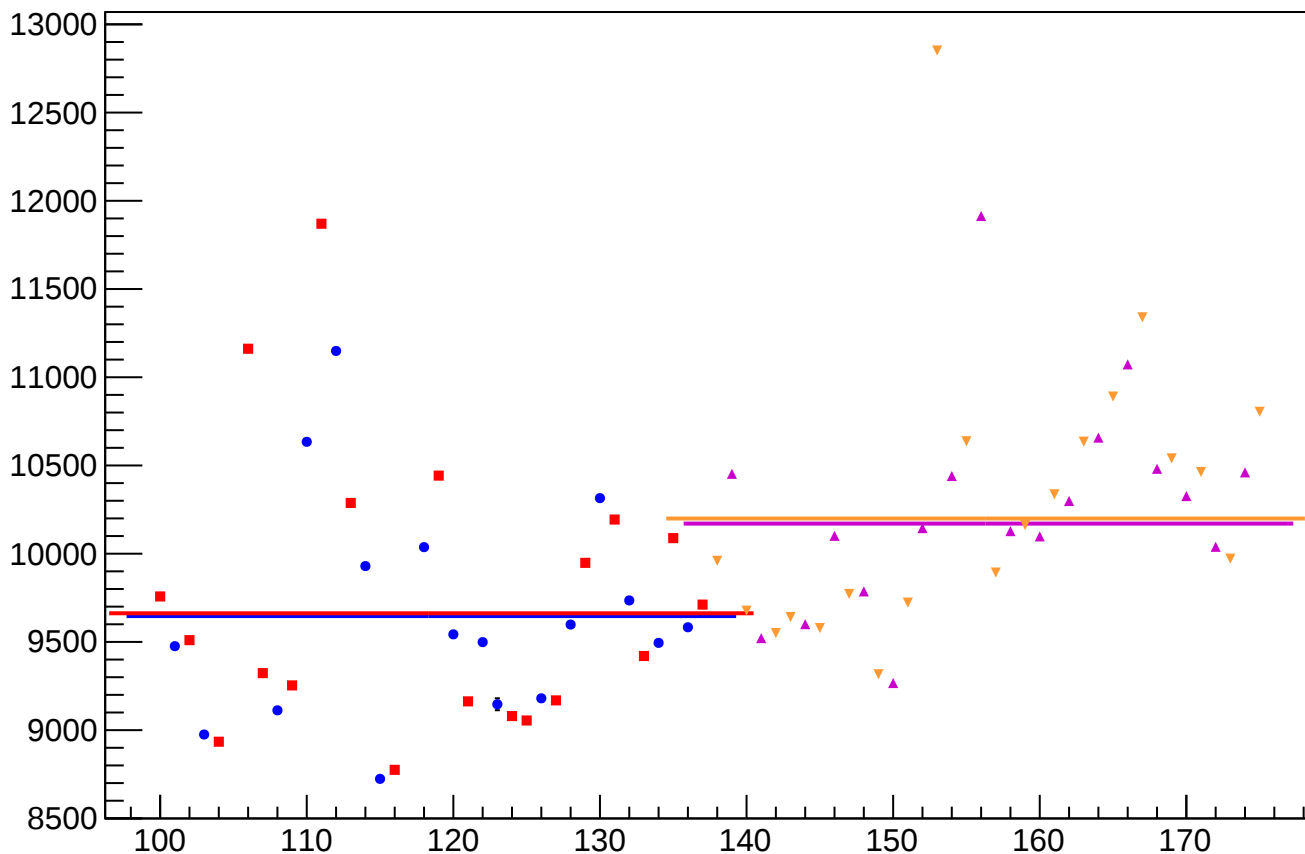
Right: -30.113 ± 2.601 χ^2/NDF : 306.8/35

In: 0.008 ± 2.203 χ^2/NDF : 529.6/34

Out: -5.609 ± 2.133 χ^2/NDF : 126.3/38

All: -2.891 ± 1.533 χ^2/NDF : 659.3/73

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

Left Out: 10199.452 ± 1.865 $\chi^2/\text{NDF}: 145235.1/19$

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

Left In: 10170.652 ± 1.931 $\chi^2/\text{NDF}: 81459.6/17$

Left: 10185.557 ± 1.342 $\chi^2/\text{NDF}: 226809.8/37$

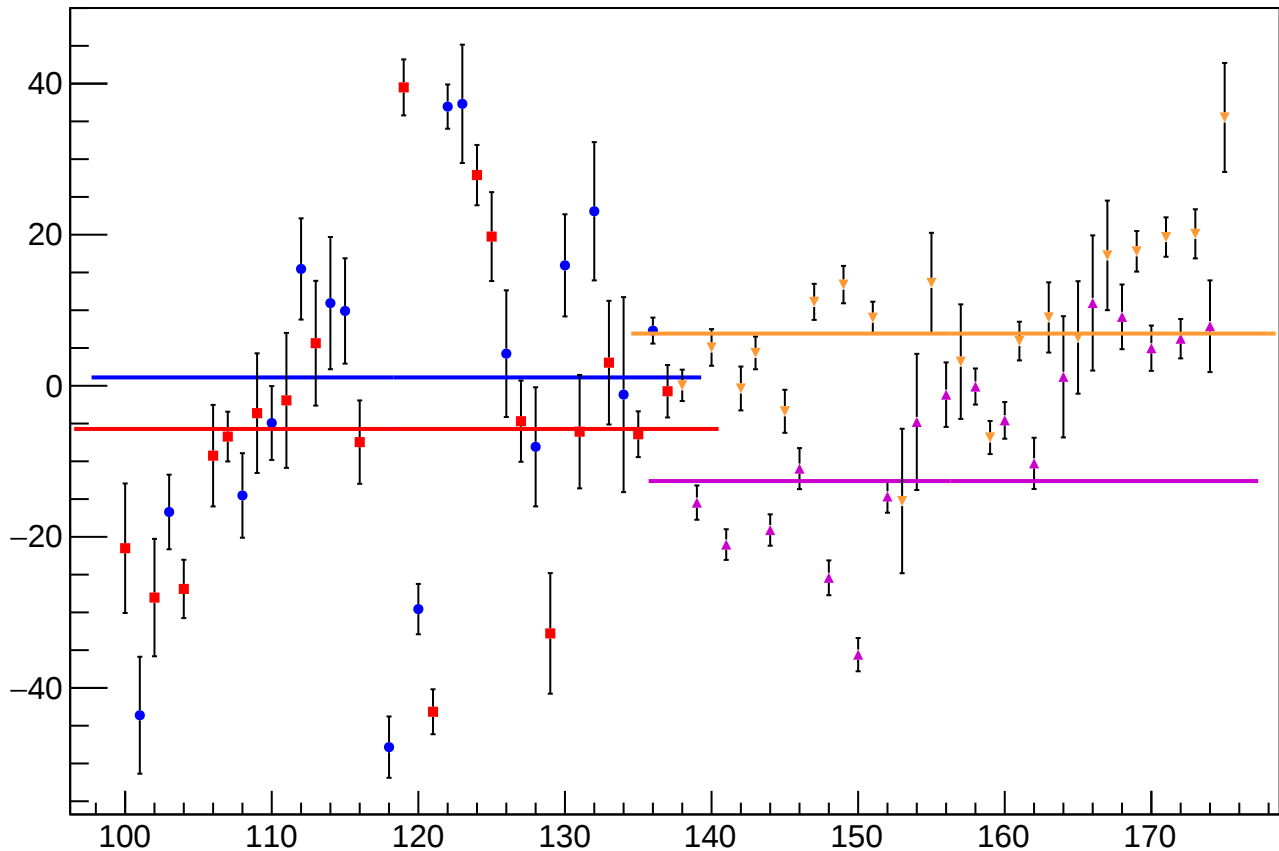
Right: 9654.635 ± 1.839 $\chi^2/\text{NDF}: 121662.9/35$

In: 9987.613 ± 1.558 $\chi^2/\text{NDF}: 151240.7/34$

Out: 10013.892 ± 1.509 $\chi^2/\text{NDF}: 251480.8/38$

All: 10001.176 ± 1.084 $\chi^2/\text{NDF}: 402868.3/73$

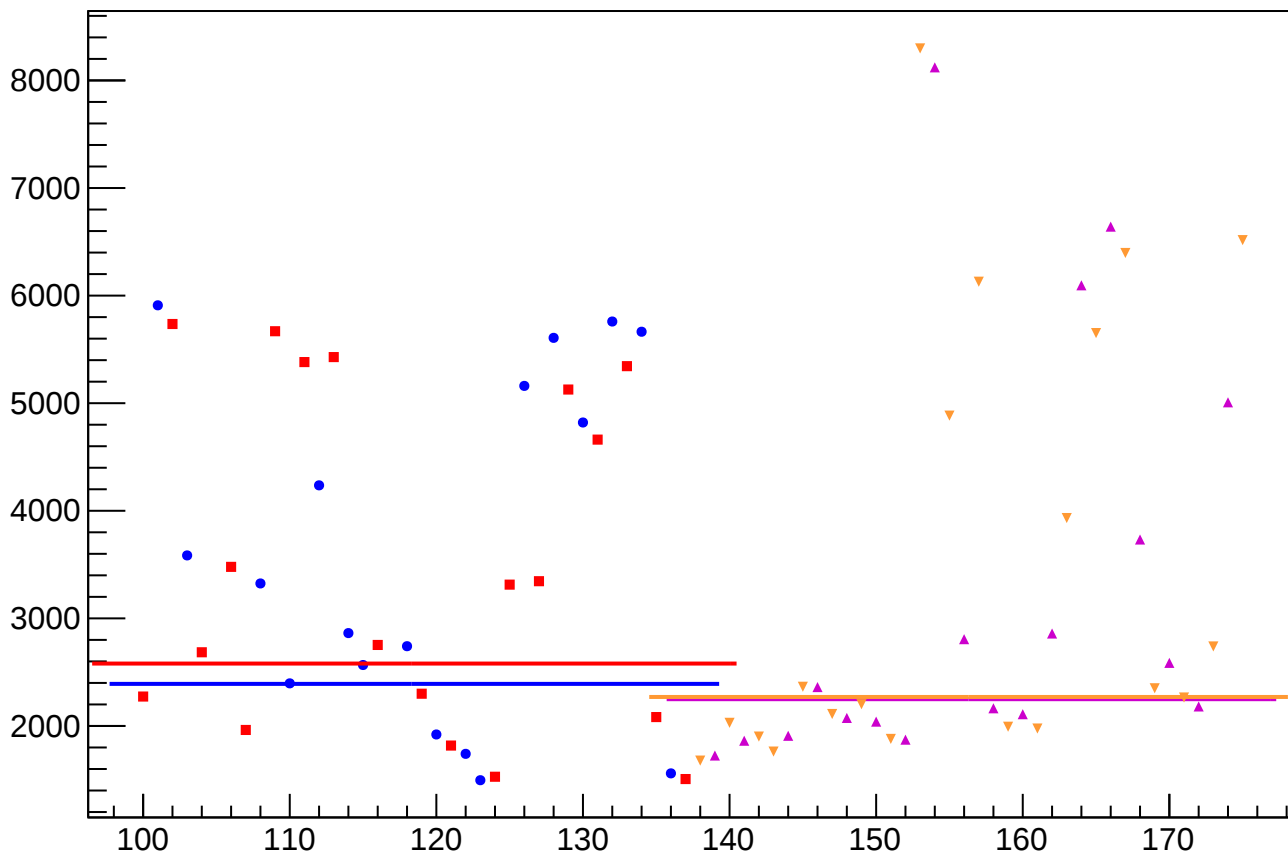
diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.106 ± 1.066 $\chi^2/\text{NDF}: 489.7/16$
 Left Out: 6.911 ± 0.658 $\chi^2/\text{NDF}: 164.1/19$
 Right Out: -5.716 ± 1.091 $\chi^2/\text{NDF}: 456.0/18$
 Left In: -12.612 ± 0.662 $\chi^2/\text{NDF}: 349.9/17$

Left: -2.783 ± 0.467 $\chi^2/\text{NDF}: 951.6/37$
 Right: -2.227 ± 0.763 $\chi^2/\text{NDF}: 965.6/35$
 In: -8.795 ± 0.563 $\chi^2/\text{NDF}: 959.0/34$
 Out: 3.546 ± 0.563 $\chi^2/\text{NDF}: 718.3/38$
 All: -2.632 ± 0.398 $\chi^2/\text{NDF}: 1917.6/73$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



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

Left Out: 2269.559 ± 0.465 $\chi^2/\text{NDF}: 4139014.2/19$

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

Left In: 2248.888 ± 0.468 $\chi^2/\text{NDF}: 2905338.3/17$

Left: 2259.294 ± 0.330 $\chi^2/\text{NDF}: 7045333.6/37$

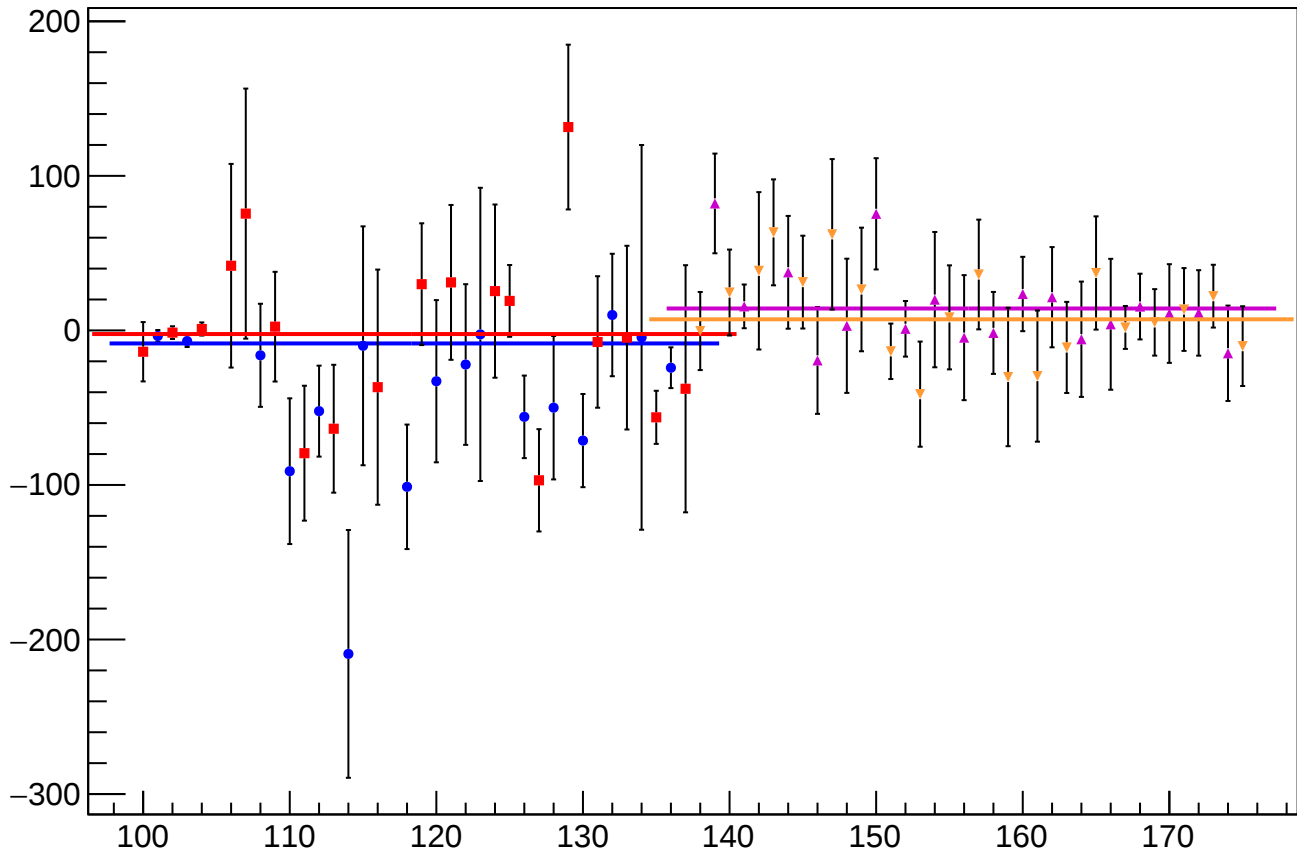
Right: 2483.443 ± 0.539 $\chi^2/\text{NDF}: 4996468.7/35$

In: 2288.479 ± 0.398 $\chi^2/\text{NDF}: 5531575.6/34$

Out: 2352.299 ± 0.398 $\chi^2/\text{NDF}: 6623071.3/38$

All: 2320.350 ± 0.281 $\chi^2/\text{NDF}: 12167500.5/77$

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 7.191 $\pm$ 6.028 χ^2/NDF :13.4/19

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

Left In: 14.177 $\pm$ 6.455 χ^2/NDF :11.3/17

Left: 10.445 $\pm$ 4.406 χ^2/NDF : 25.4/37

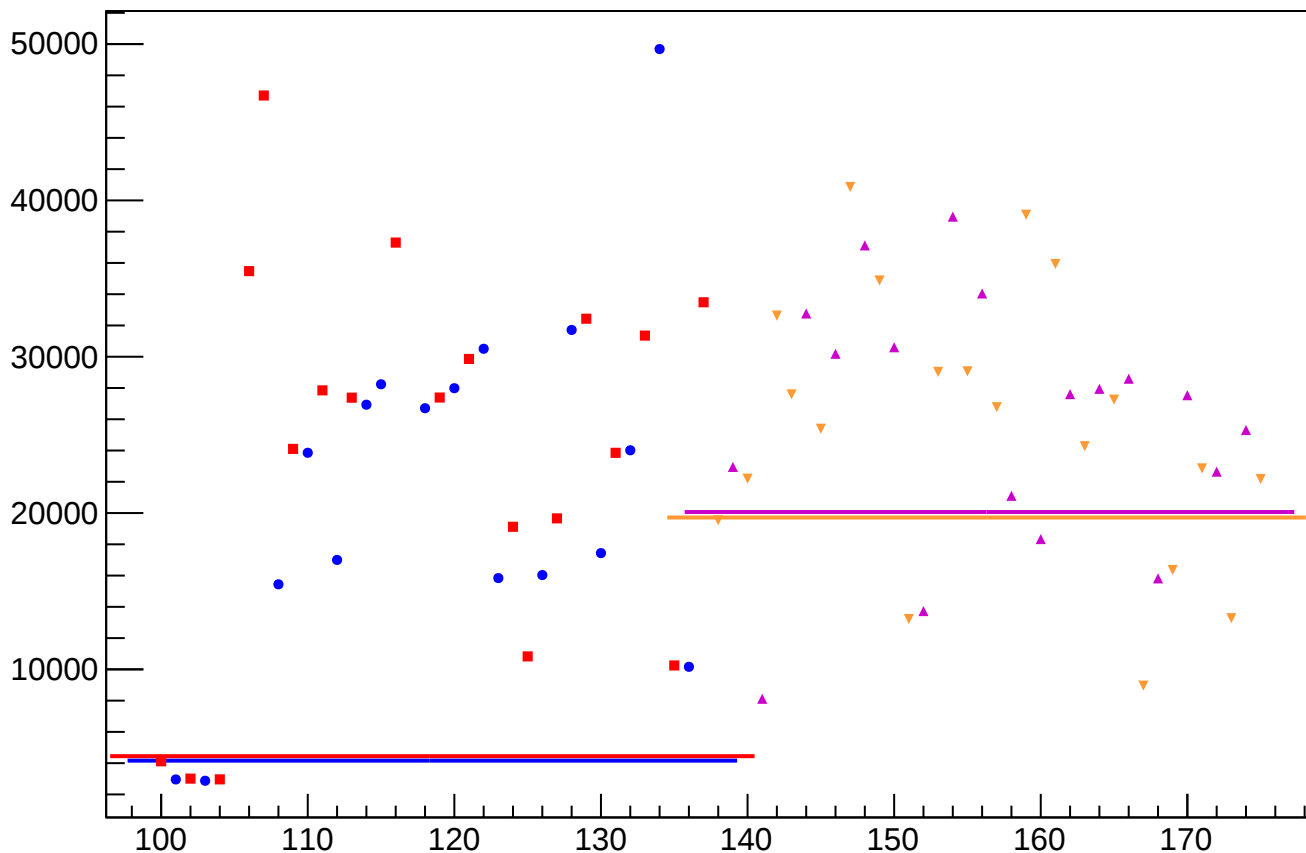
Right: -5.615 $\pm$ 1.896 χ^2/NDF : 66.1/35

In: -5.301 $\pm$ 2.402 χ^2/NDF :50.8/34

Out: -0.668 $\pm$ 2.530 χ^2/NDF :50.2/38

All: -3.105 $\pm$ 1.742 χ^2/NDF : 102.7/73

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

Left Out: 19714.378 $\pm$ 4.262 χ^2/NDF : 3927368.0/19

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

Left In: 20065.876 $\pm$ 4.564 χ^2/NDF : 3752277.9/17

Left: 19878.114 $\pm$ 3.115 χ^2/NDF : 7682813.7/37

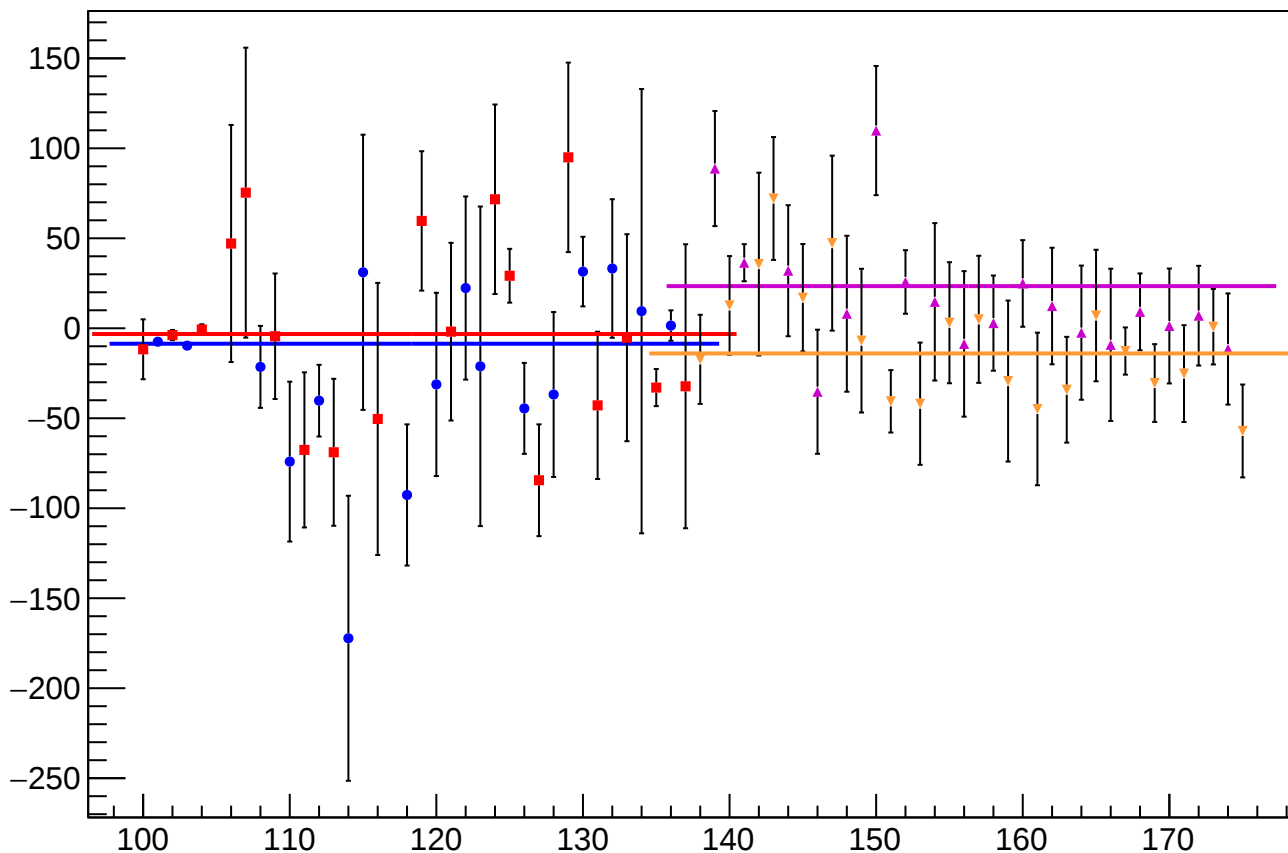
Right: 4294.168 $\pm$ 1.341 χ^2/NDF : 13428219.0/35

In: 6363.830 $\pm$ 1.698 χ^2/NDF : 20201836.7/34

Out: 7135.687 $\pm$ 1.789 χ^2/NDF : 21924669.2/38

All: 6729.752 $\pm$ 1.232 χ^2/NDF : 42224438.7/71

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -13.990 $\pm$ 5.940 χ^2/NDF : 20.1/19

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

Left In: 23.425 $\pm$ 5.919 χ^2/NDF : 19.7/17

Left: 4.785 $\pm$ 4.193 χ^2/NDF : 59.6/37

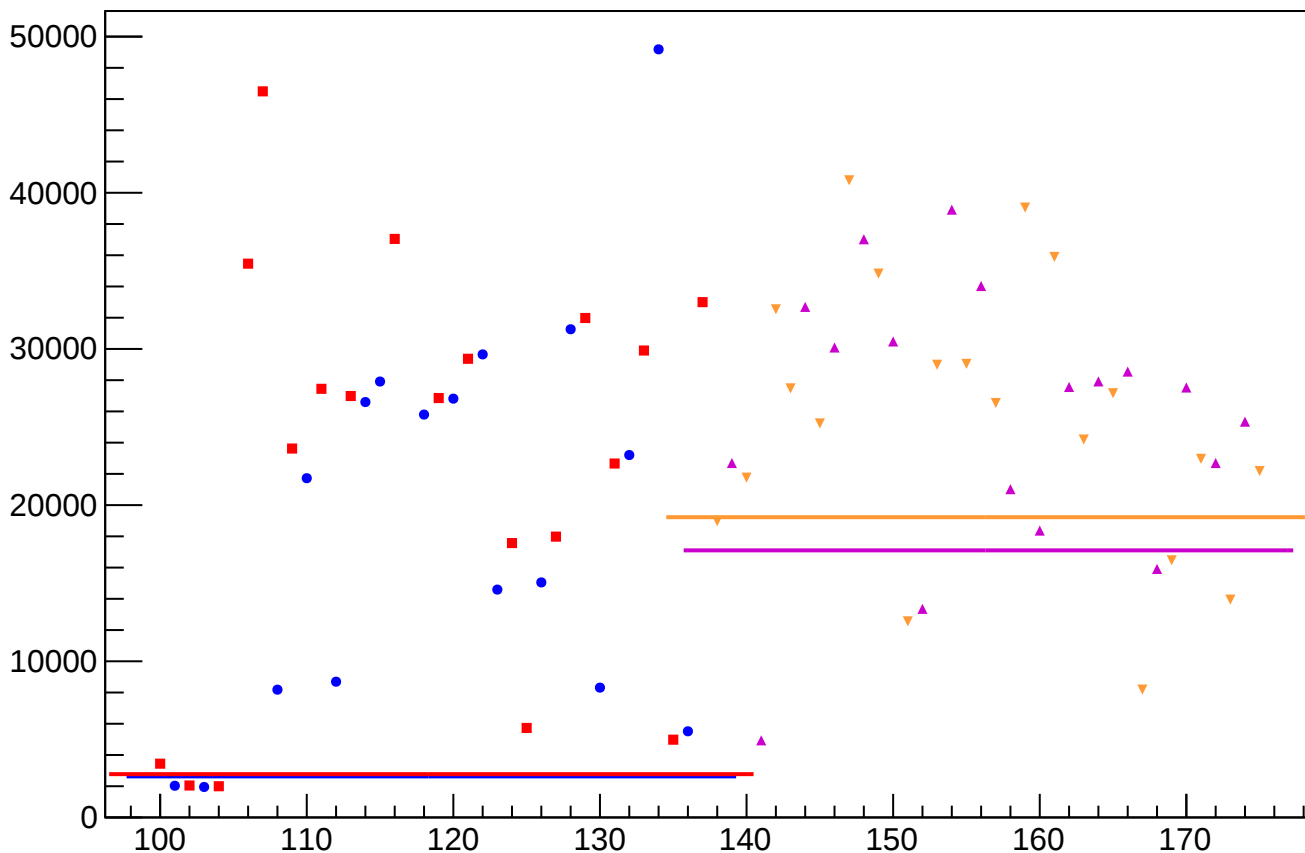
Right: -6.100 $\pm$ 1.305 χ^2/NDF : 65.5/35

In: -5.938 $\pm$ 1.703 χ^2/NDF : 70.9/34

Out: -4.217 $\pm$ 1.829 χ^2/NDF : 59.9/38

All: -5.139 $\pm$ 1.246 χ^2/NDF : 131.3/73

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2630.547 $\pm$ 1.257 χ^2/NDF : 5588981.6/16

Left Out: 19226.425 $\pm$ 4.200 χ^2/NDF : 4264263.3/19

Right Out: 2773.446 $\pm$ 1.359 χ^2/NDF : 7835878.7/18

Left In: 17102.309 $\pm$ 4.185 χ^2/NDF : 6151462.1/17

Left: 18160.533 $\pm$ 2.965 χ^2/NDF : 10544050.4/37

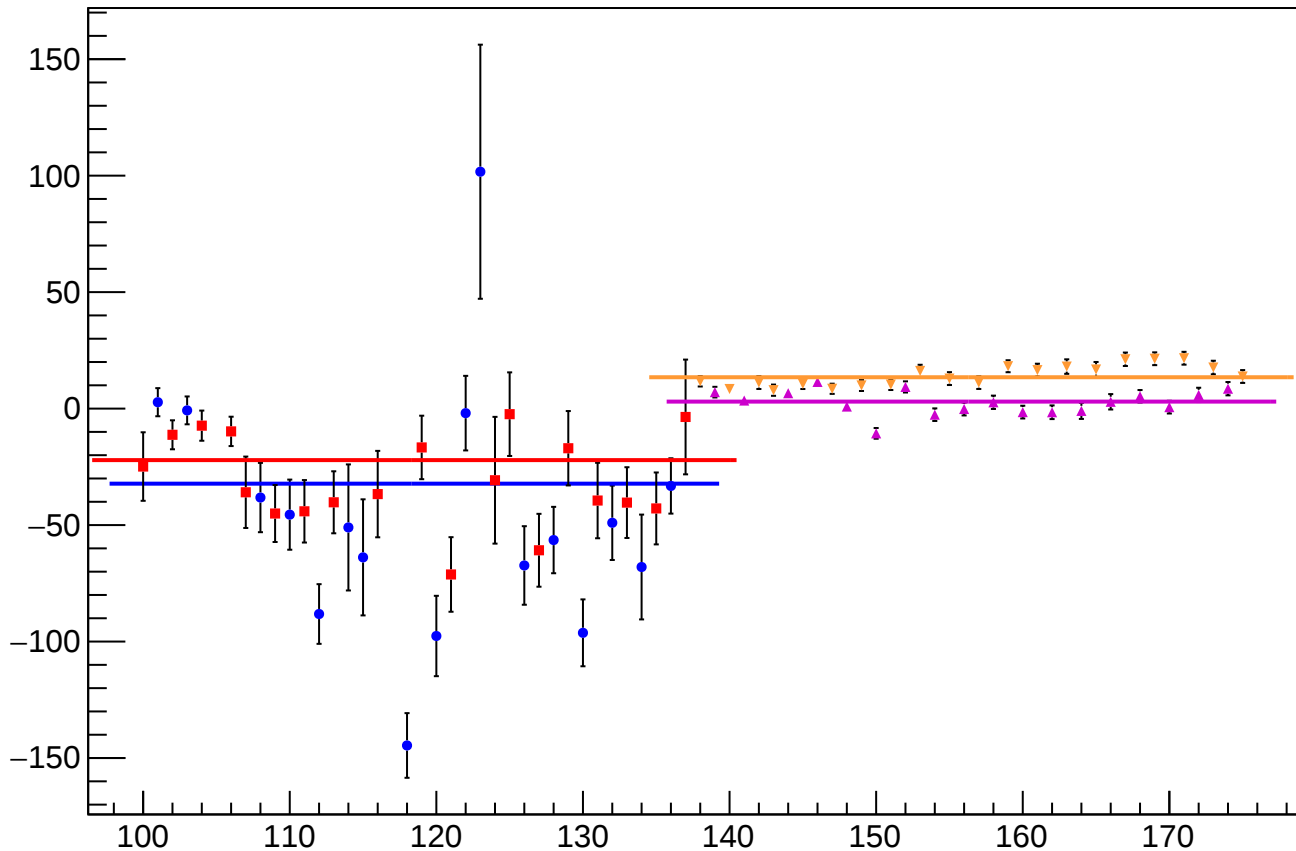
Right: 2696.425 $\pm$ 0.923 χ^2/NDF : 13430817.7/35

In: 3828.053 $\pm$ 1.204 χ^2/NDF : 22707414.7/34

Out: 4332.992 $\pm$ 1.293 χ^2/NDF : 25988756.6/38

All: 4062.494 $\pm$ 0.881 χ^2/NDF : 48777842.5/77

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

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

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

Left In: 3.005 ± 0.601 χ^2/NDF : 83.7/17

Left: 8.452 ± 0.416 χ^2/NDF : 300.1/37

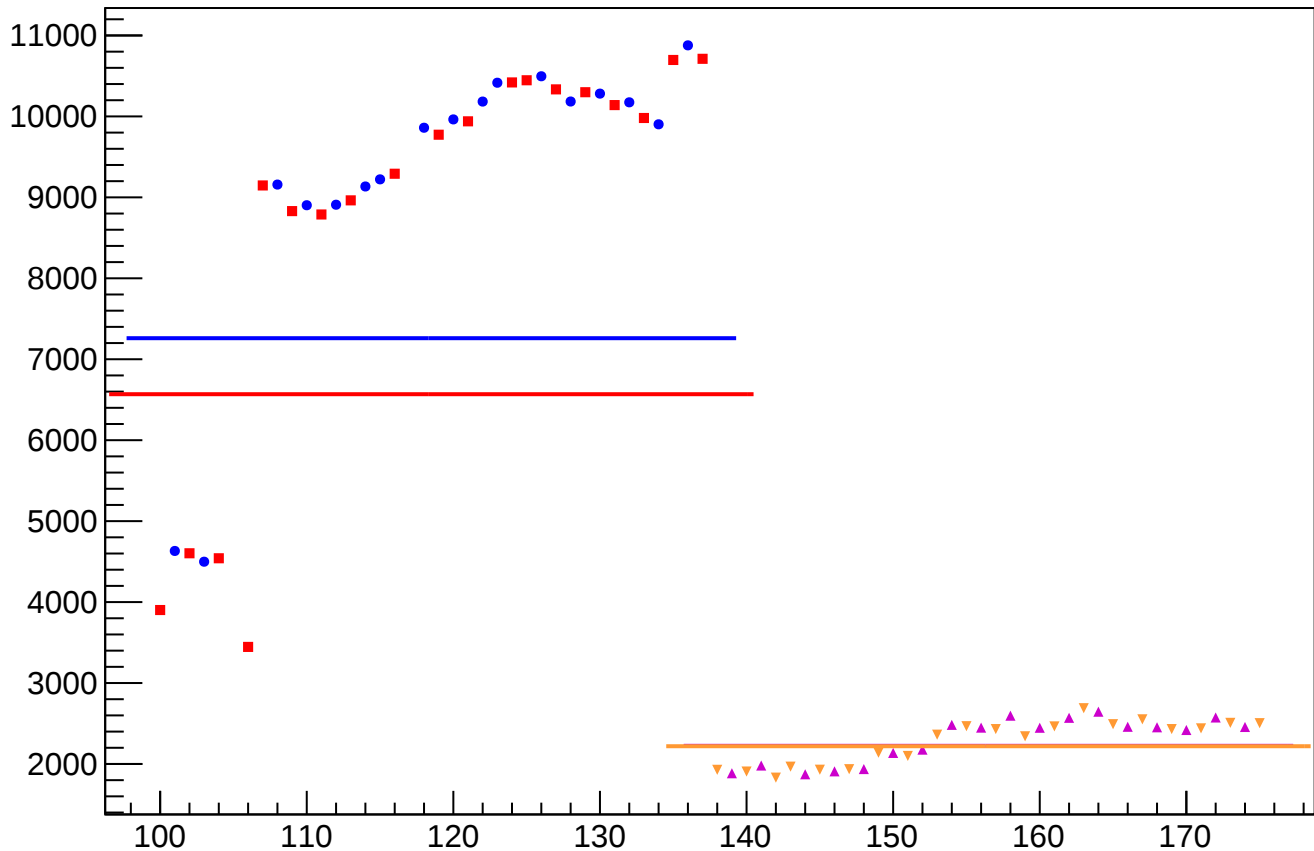
Right: -26.609 ± 1.989 χ^2/NDF : 253.7/35

In: 1.630 ± 0.589 χ^2/NDF : 421.5/34

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

All: 6.982 ± 0.407 χ^2/NDF : 851.6/73

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

Left Out: 2219.222+/-0.408 χ^2/NDF : 418744.3/19

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

Left In: 2224.254+/-0.425 χ^2/NDF : 424078.9/17

Left: 2221.633+/-0.294 χ^2/NDF : 842896.2/37

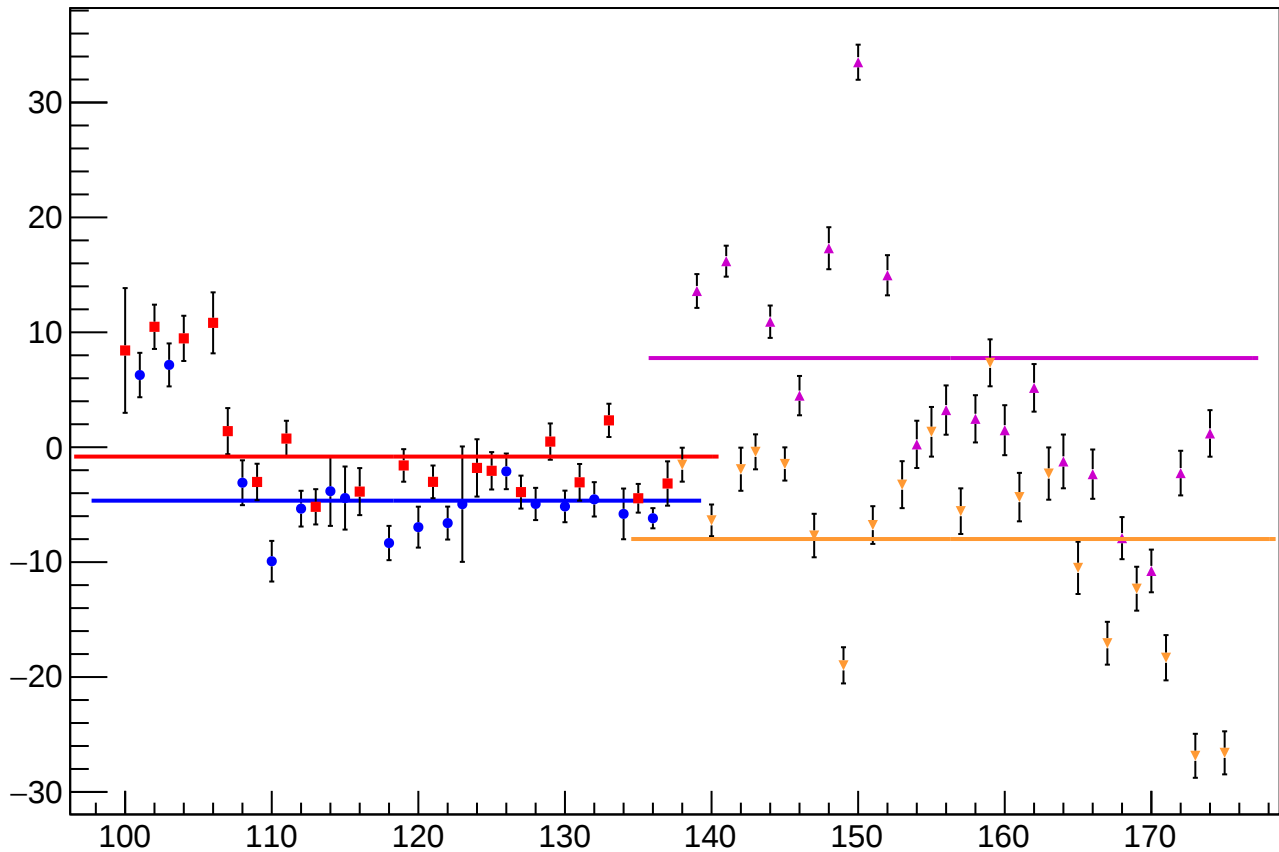
Right: 6876.033+/-1.406 χ^2/NDF : 3892707.9/35

In: 2420.906+/-0.417 χ^2/NDF : 7543625.9/34

Out: 2412.970+/-0.398 χ^2/NDF : 7687667.7/38

All: 2416.761+/-0.288 χ^2/NDF : 15231483.2/77

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.651 ± 0.393 χ^2/NDF : 97.6/16

Left Out: -7.989 ± 0.403 χ^2/NDF : 470.0/19

Right Out: -0.814 ± 0.388 χ^2/NDF : 123.7/18

Left In: 7.760 ± 0.425 χ^2/NDF : 673.1/17

Left: -0.534 ± 0.292 χ^2/NDF : 1867.3/37

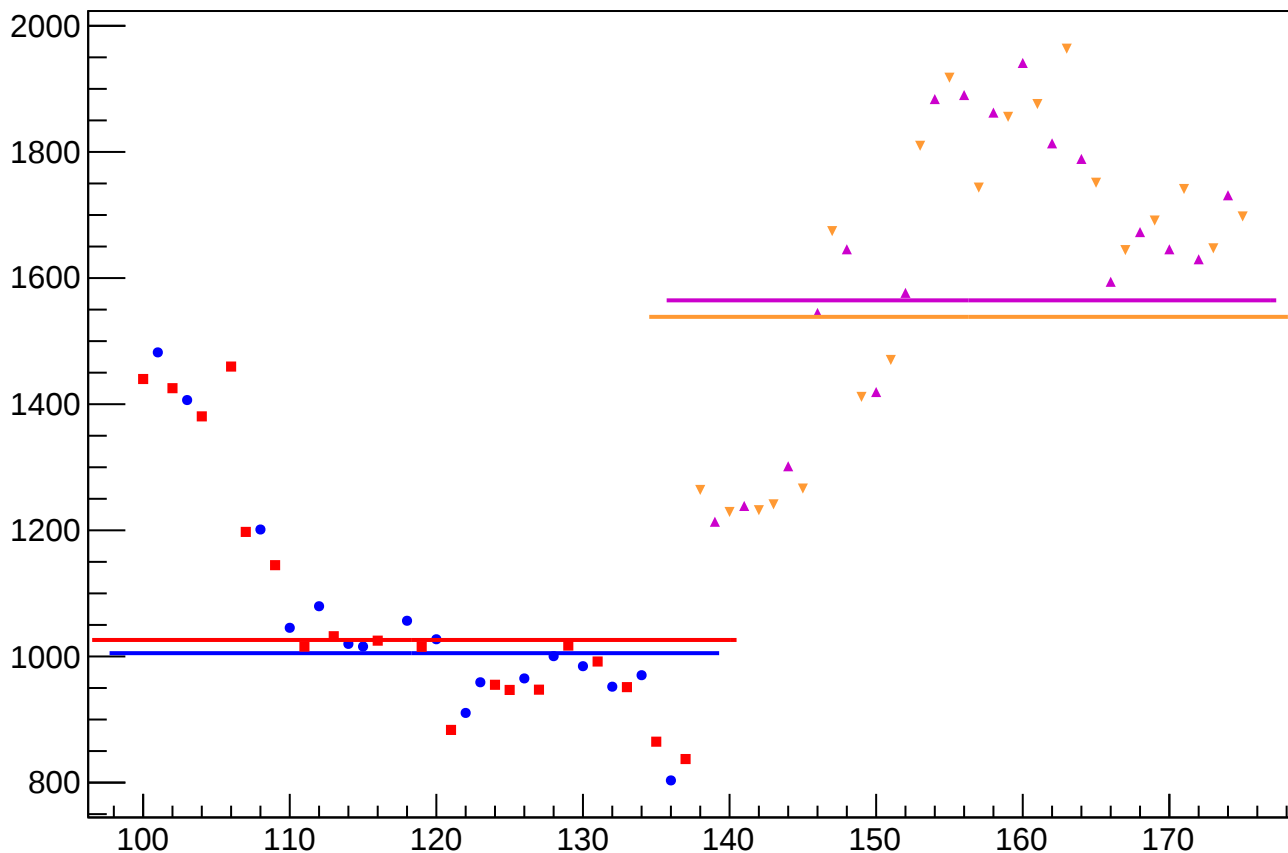
Right: -2.712 ± 0.276 χ^2/NDF : 269.5/35

In: 1.068 ± 0.288 χ^2/NDF : 1231.1/34

Out: -4.274 ± 0.280 χ^2/NDF : 758.1/38

All: -1.685 ± 0.201 χ^2/NDF : 2166.1/73

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

Left Out: 1538.494 +/- 0.285 χ^2/NDF : 763485.1/19

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

Left In: 1564.671 +/- 0.300 χ^2/NDF : 593300.8/17

Left: 1550.885 +/- 0.207 χ^2/NDF : 1360787.7/37

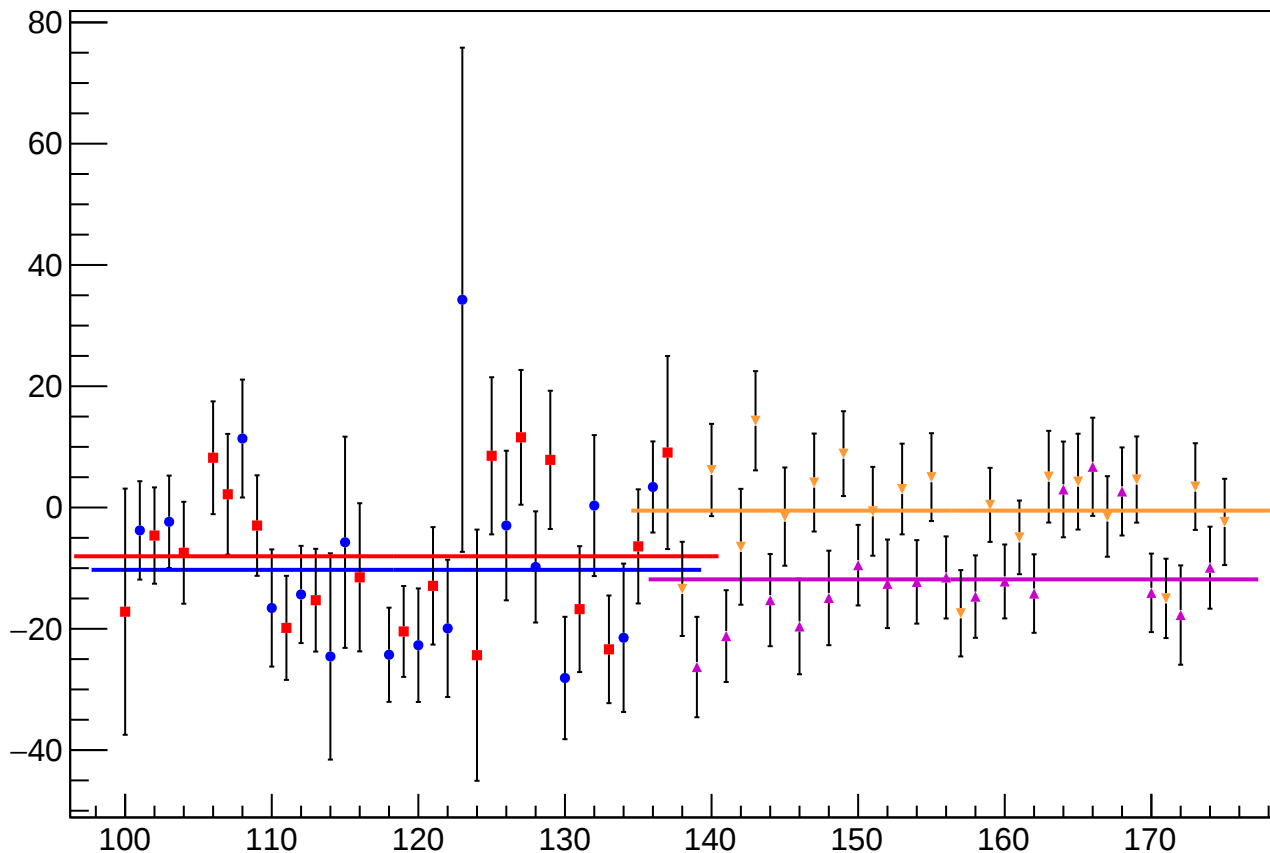
Right: 1015.803 +/- 0.195 χ^2/NDF : 697945.4/35

In: 1263.038 +/- 0.204 χ^2/NDF : 2826492.9/34

Out: 1273.180 +/- 0.198 χ^2/NDF : 2773621.9/38

All: 1268.265 +/- 0.142 χ^2/NDF : 5601390.3/73

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.277 ± 2.408 $\chi^2/\text{NDF}: 23.5/16$

Left Out: -0.509 ± 1.625 $\chi^2/\text{NDF}: 23.1/19$

Right Out: -8.041 ± 2.278 $\chi^2/\text{NDF}: 22.8/18$

Left In: -11.851 ± 1.691 $\chi^2/\text{NDF}: 19.8/17$

Left: -5.954 ± 1.172 $\chi^2/\text{NDF}: 66.3/37$

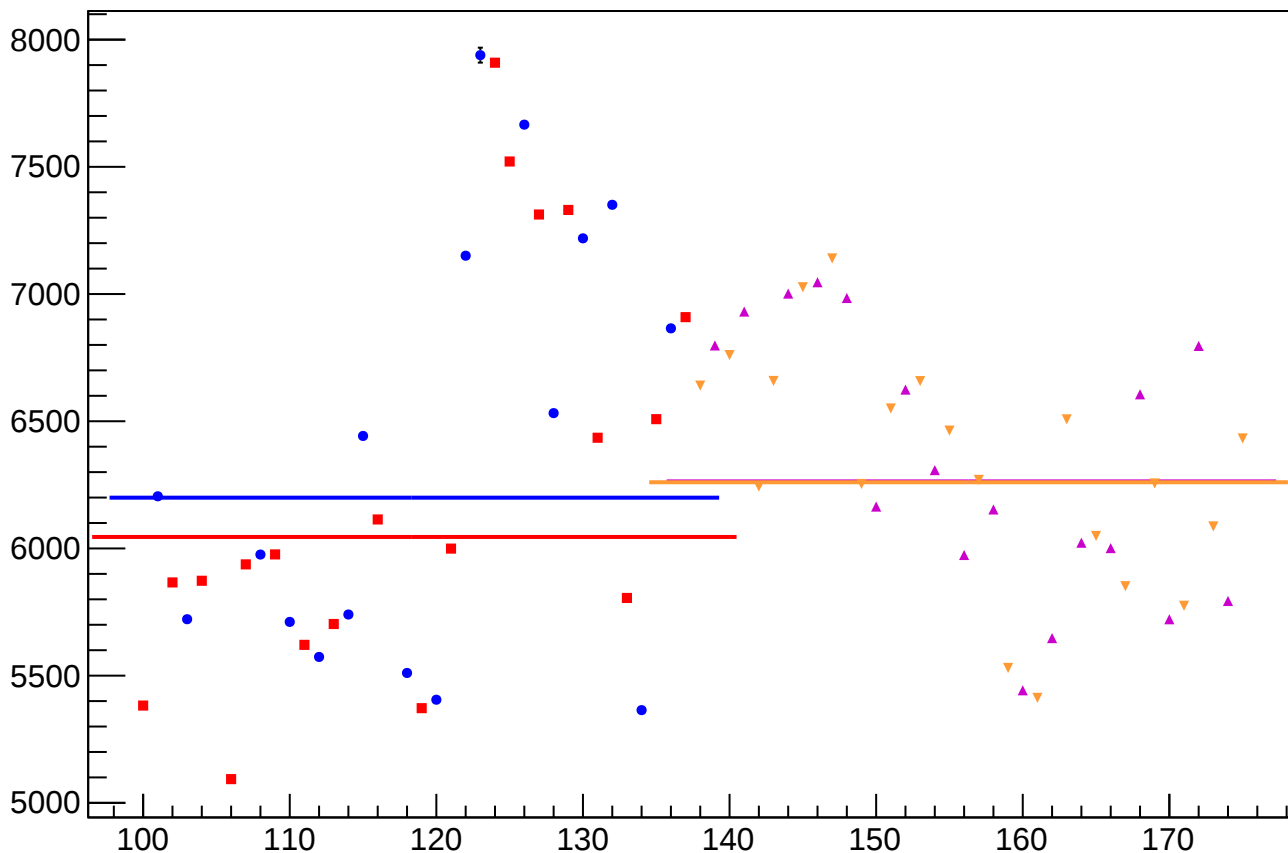
Right: -9.097 ± 1.655 $\chi^2/\text{NDF}: 46.7/35$

In: -11.331 ± 1.384 $\chi^2/\text{NDF}: 43.6/34$

Out: -3.049 ± 1.323 $\chi^2/\text{NDF}: 53.1/38$

All: -7.004 ± 0.956 $\chi^2/\text{NDF}: 115.4/73$

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6260.176 $\pm$ 1.149 χ^2/NDF : 162156.2/19

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

Left In: 6263.580 $\pm$ 1.196 χ^2/NDF : 184144.1/17

Left: 6261.810 $\pm$ 0.829 χ^2/NDF : 346304.5/37

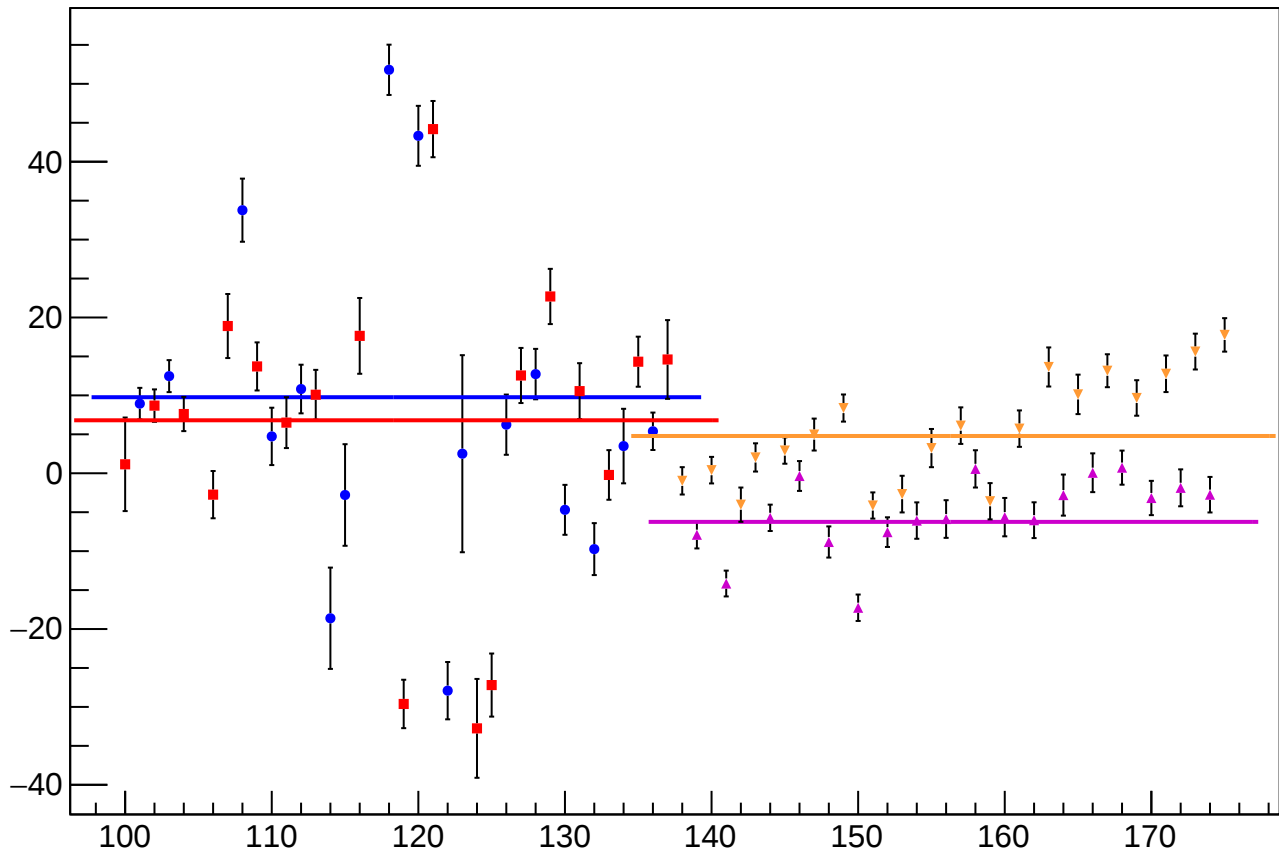
Right: 6118.133 $\pm$ 1.170 χ^2/NDF : 334424.9/35

In: 6242.448 $\pm$ 0.979 χ^2/NDF : 356849.6/34

Out: 6187.674 $\pm$ 0.936 χ^2/NDF : 332283.3/38

All: 6213.830 $\pm$ 0.676 χ^2/NDF : 690769.7/73

diff_bpm0l05Y_mean vs Slug, Sign Corrected



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

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

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

Left In: -6.242 ± 0.491 $\chi^2/\text{NDF}: 111.7/17$

Left: -0.411 ± 0.337 $\chi^2/\text{NDF}: 579.6/37$

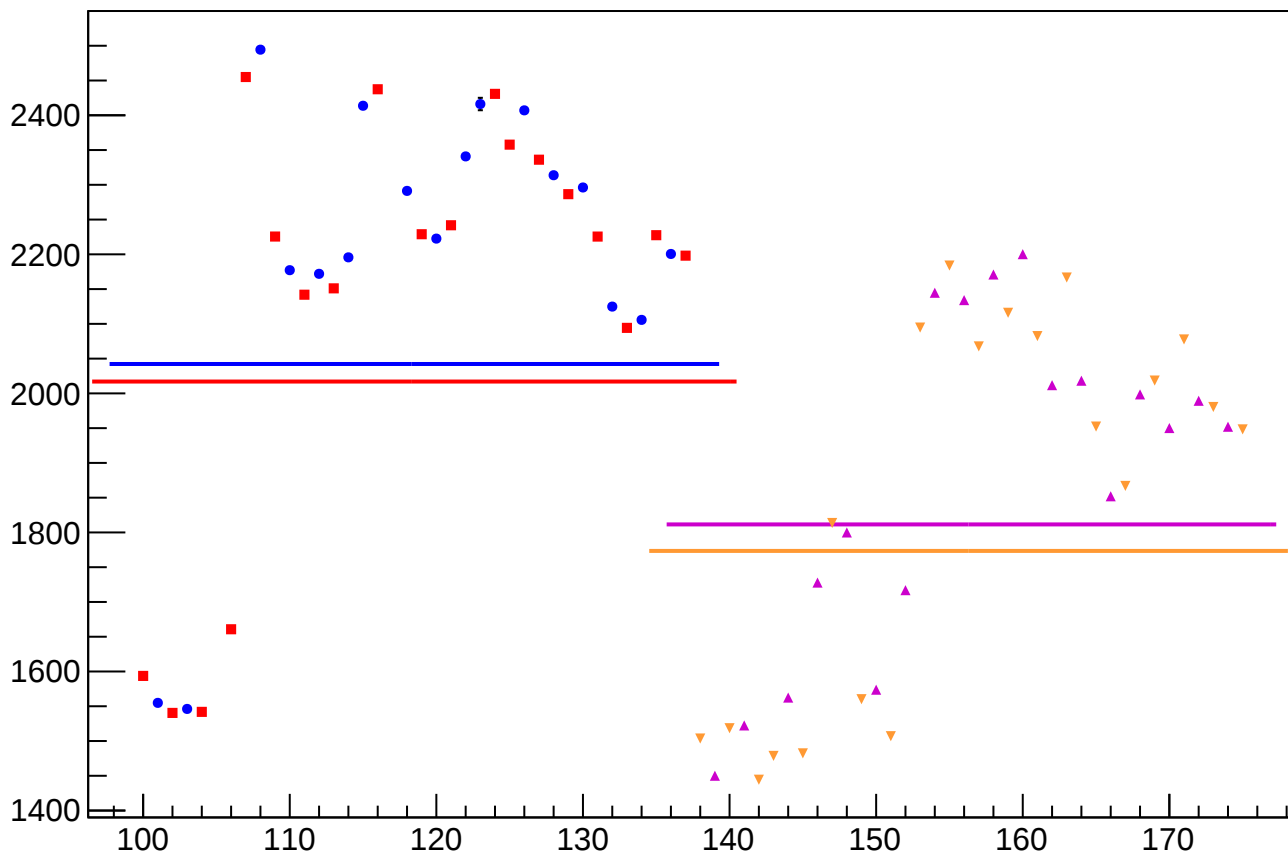
Right: 8.222 ± 0.552 $\chi^2/\text{NDF}: 902.8/35$

In: -1.843 ± 0.418 $\chi^2/\text{NDF}: 878.1/34$

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

All: 1.932 ± 0.287 $\chi^2/\text{NDF}: 1660.8/73$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 1811.539 $\pm$ 0.347 χ^2/NDF : 477366.3/17

Left: 1791.385 $\pm$ 0.238 χ^2/NDF : 1165419.2/37

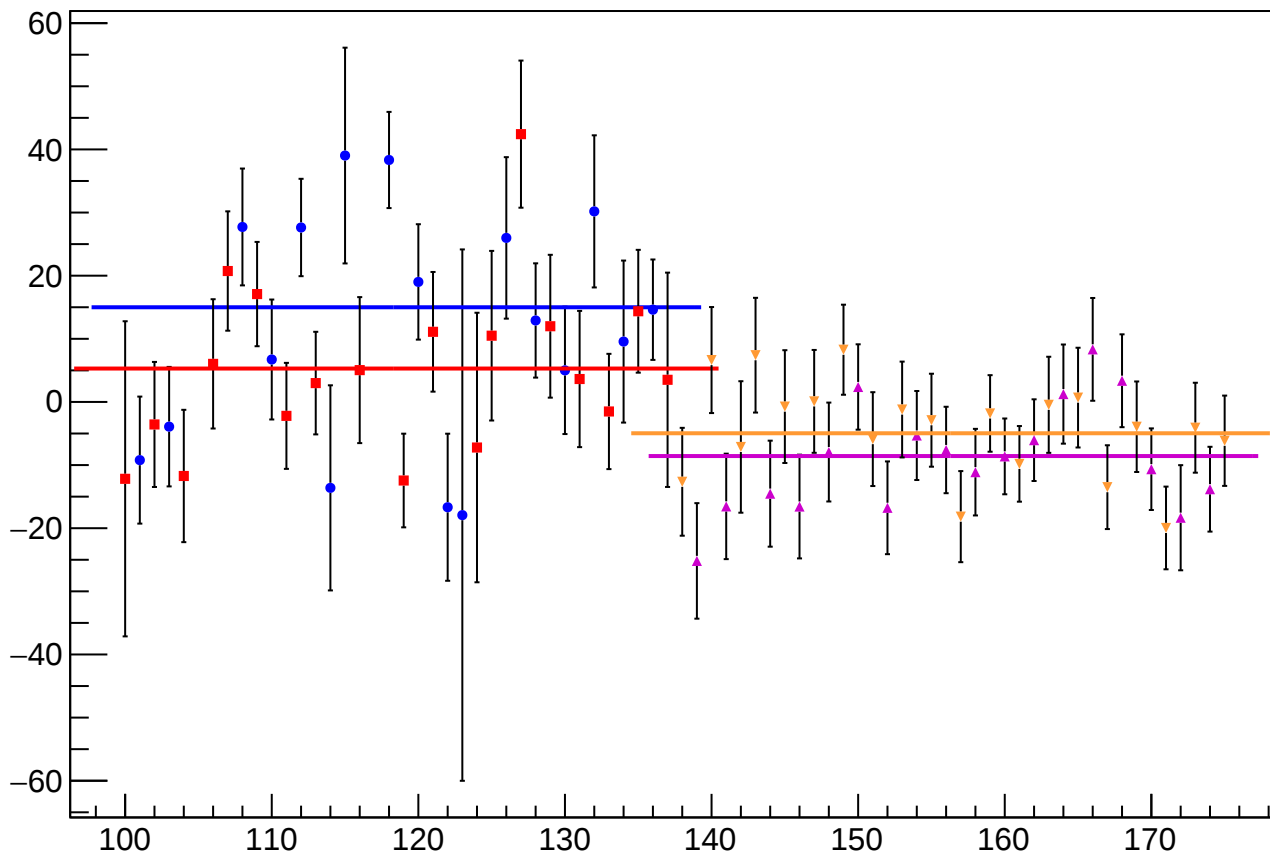
Right: 2029.129 $\pm$ 0.390 χ^2/NDF : 733495.1/35

In: 1874.951 $\pm$ 0.295 χ^2/NDF : 955785.0/34

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

All: 1855.912 $\pm$ 0.203 χ^2/NDF : 2169451.5/73

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

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

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

Left In: -8.570 ± 1.723 $\chi^2/\text{NDF}: 20.6/17$

Left: -6.698 ± 1.196 $\chi^2/\text{NDF}: 44.0/37$

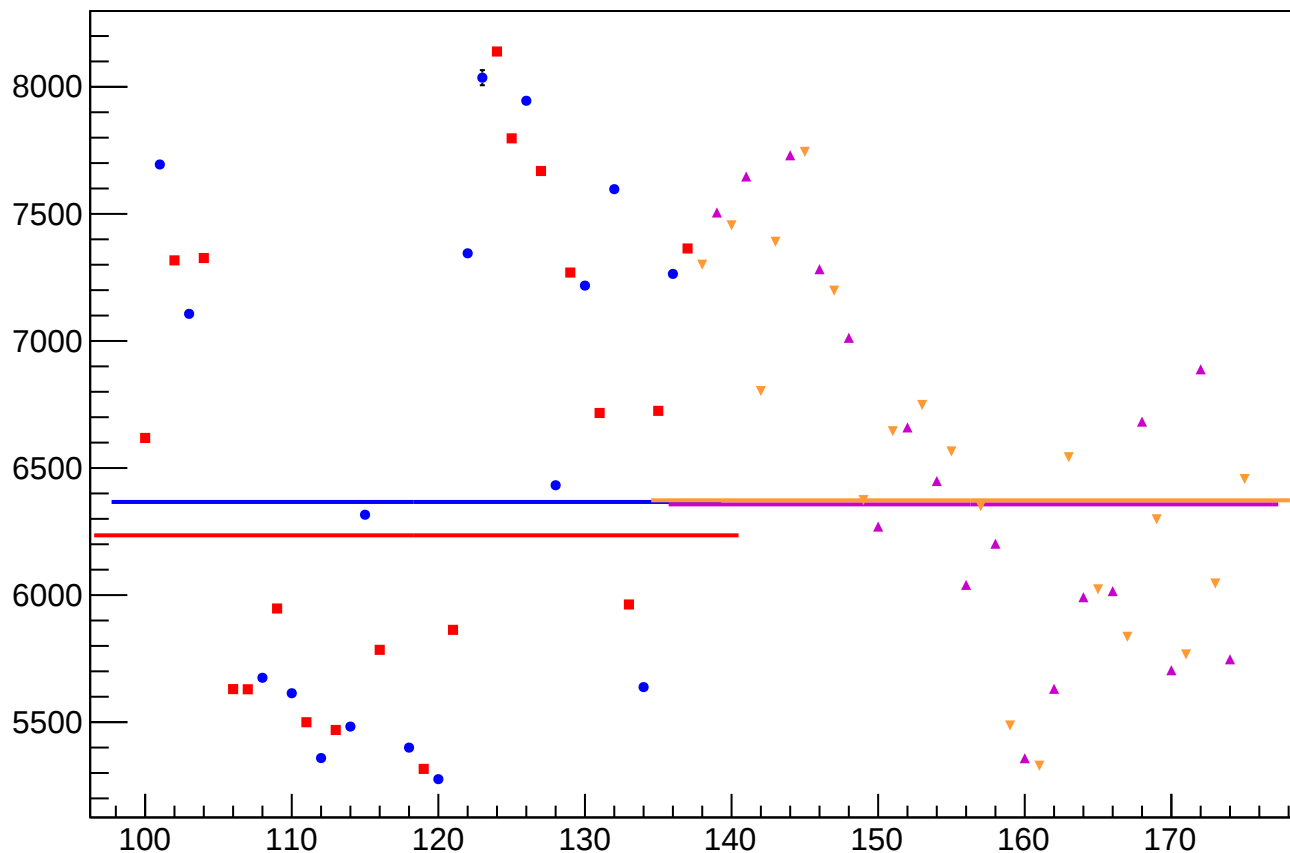
Right: 9.888 ± 1.710 $\chi^2/\text{NDF}: 77.4/35$

In: -0.918 ± 1.416 $\chi^2/\text{NDF}: 122.7/34$

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

All: -1.253 ± 0.980 $\chi^2/\text{NDF}: 184.6/73$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.491 $\pm$ 1.757 χ^2 /NDF: 286494.5/16

Left Out: 6372.982 $\pm$ 1.174 χ^2 /NDF: 305229.6/19

Right Out: 6235.179 $\pm$ 1.667 χ^2 /NDF: 243204.0/18

Left In: 6356.978 $\pm$ 1.219 χ^2 /NDF: 318894.0/17

Left: 6365.277 $\pm$ 0.846 χ^2 /NDF: 624213.0/37

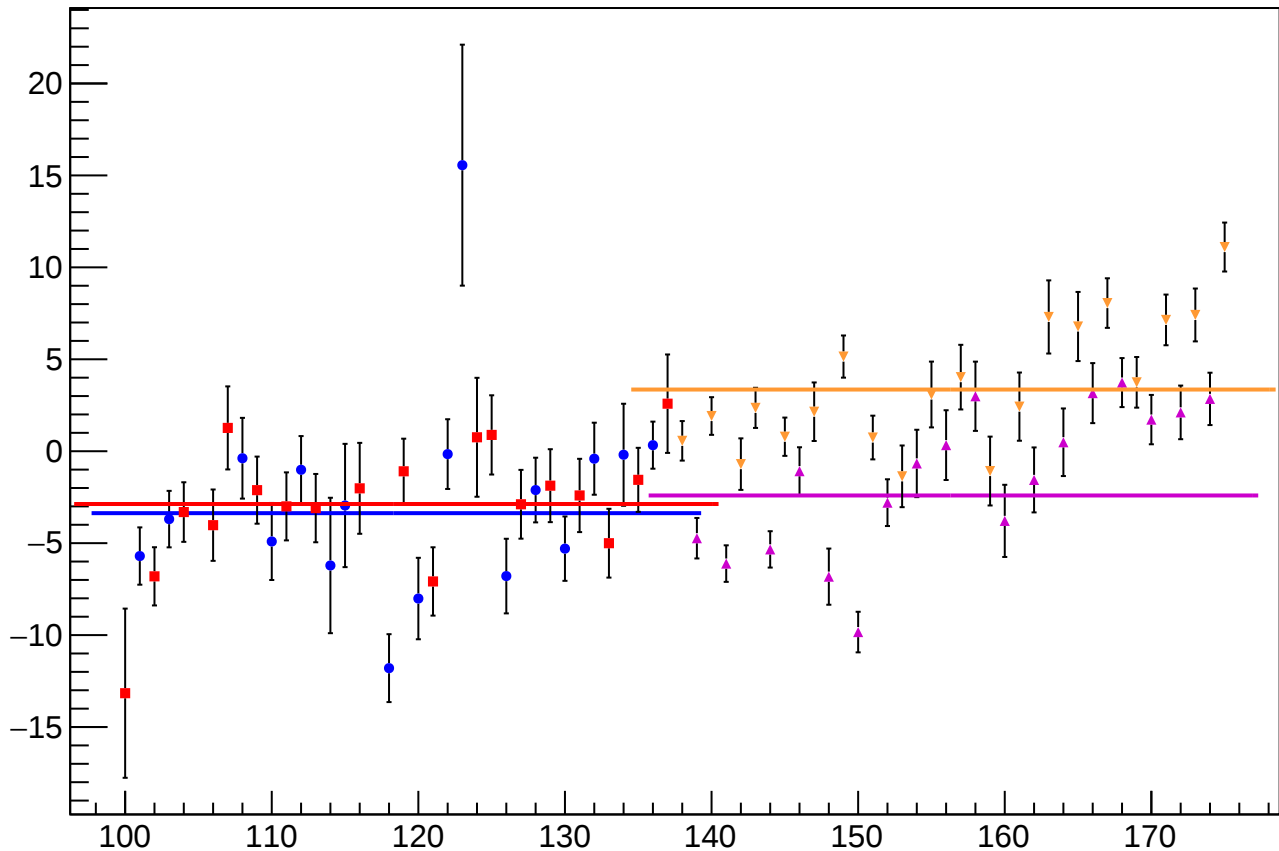
Right: 6297.369 $\pm$ 1.209 χ^2 /NDF: 532637.5/35

In: 6360.067 $\pm$ 1.001 χ^2 /NDF: 605408.3/34

Out: 6327.285 $\pm$ 0.960 χ^2 /NDF: 553001.4/38

All: 6342.982 $\pm$ 0.693 χ^2 /NDF: 1158968.2/73

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

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

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

Left In: -2.407 ± 0.324 χ^2/NDF : 161.8/17

Left: 0.645 ± 0.222 χ^2/NDF : 443.7/37

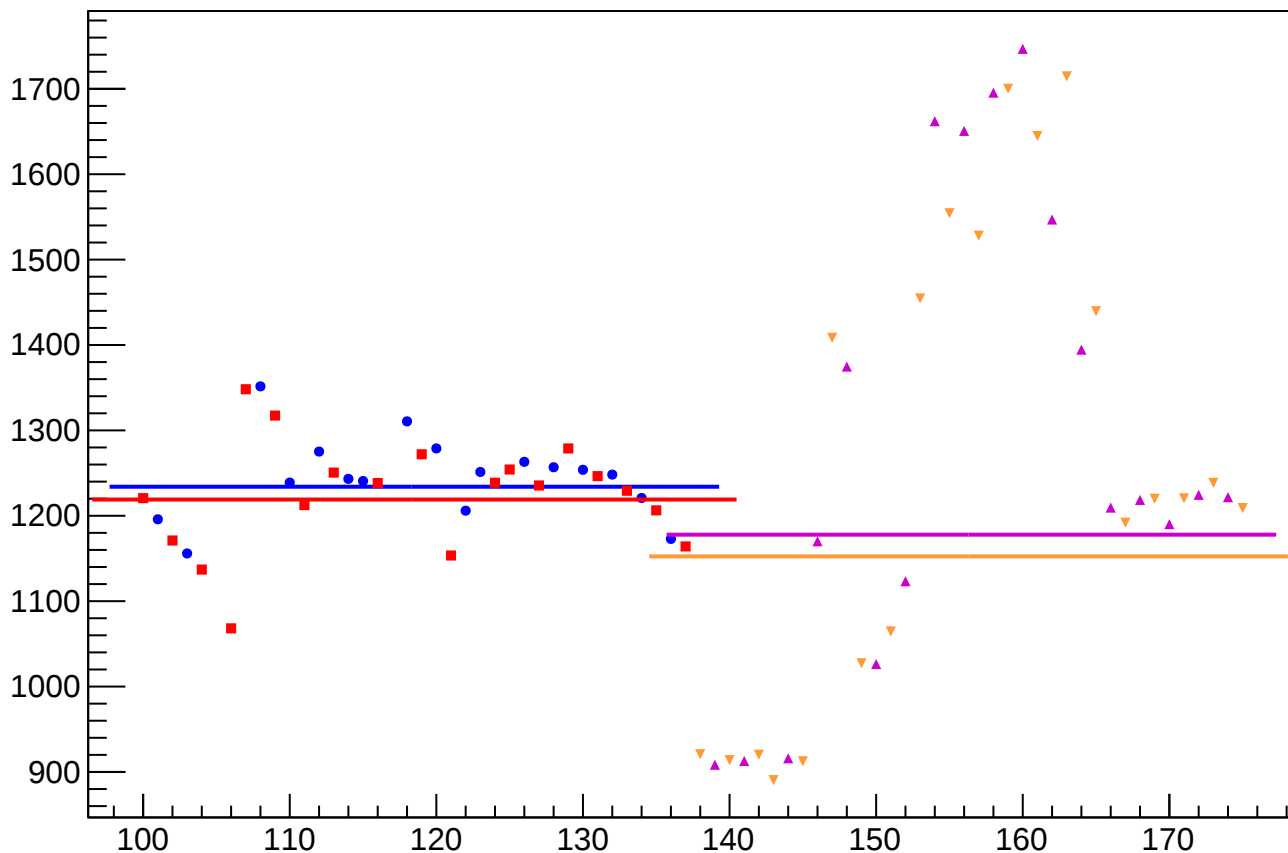
Right: -3.109 ± 0.329 χ^2/NDF : 92.5/35

In: -2.712 ± 0.268 χ^2/NDF : 224.5/34

Out: 1.428 ± 0.254 χ^2/NDF : 275.2/38

All: -0.531 ± 0.184 χ^2/NDF : 625.5/73

diff_bpm0l06Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 1177.878 $\pm$ 0.229 χ^2 /NDF:1182050.0/17

Left: 1164.397 $\pm$ 0.157 χ^2 /NDF: 2550539.8/37

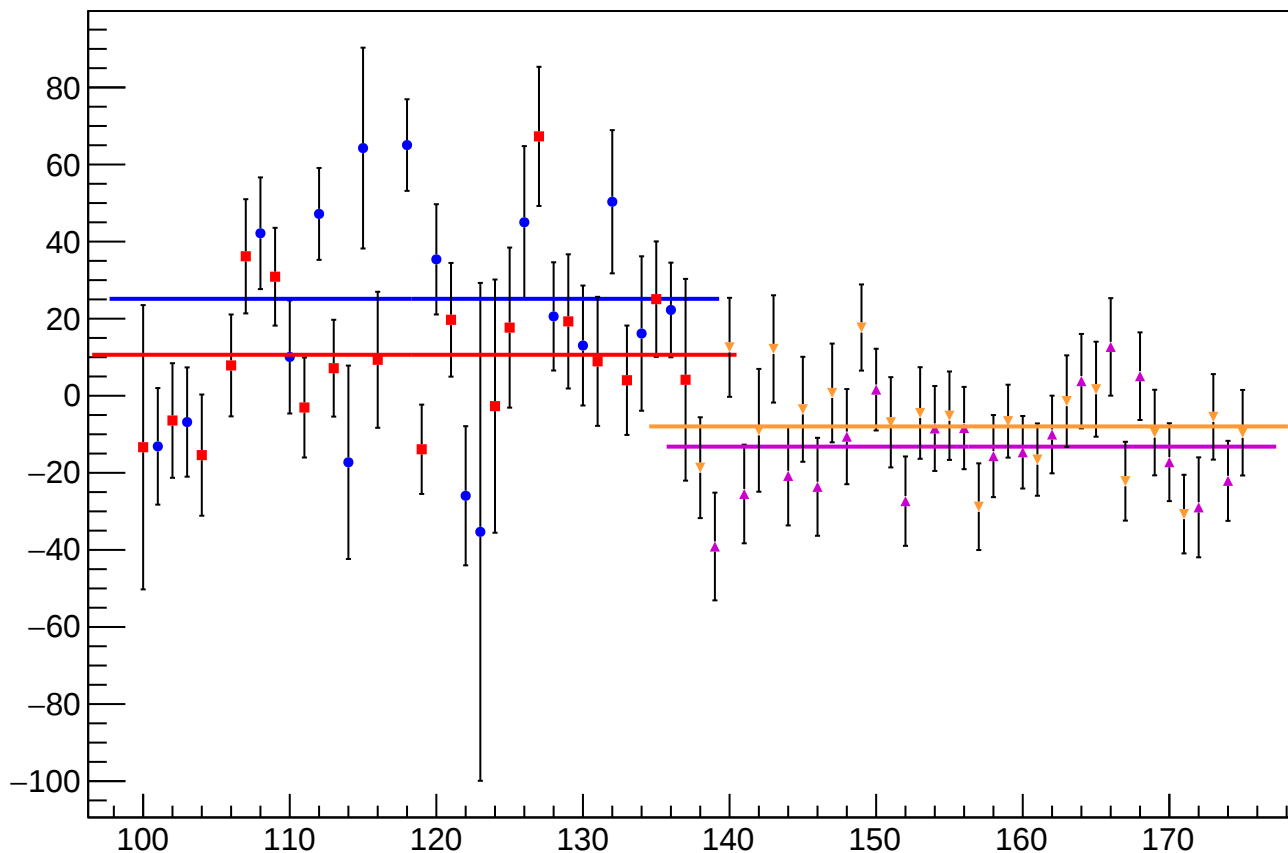
Right: 1226.229 $\pm$ 0.233 χ^2 /NDF: 64970.2/35

In: 1195.701 $\pm$ 0.189 χ^2 /NDF:1224652.9/34

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

All: 1183.767 $\pm$ 0.130 χ^2 /NDF: 2663941.4/73

diff_bpm0l07X_mean vs Slug, Sign Corrected



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

Left Out: -7.958+/-2.581 χ^2 /NDF:23.5/19

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

Left In: -13.203+/-2.682 χ^2 /NDF:20.5/17

Left: -10.480+/-1.860 χ^2 /NDF: 46.0/37

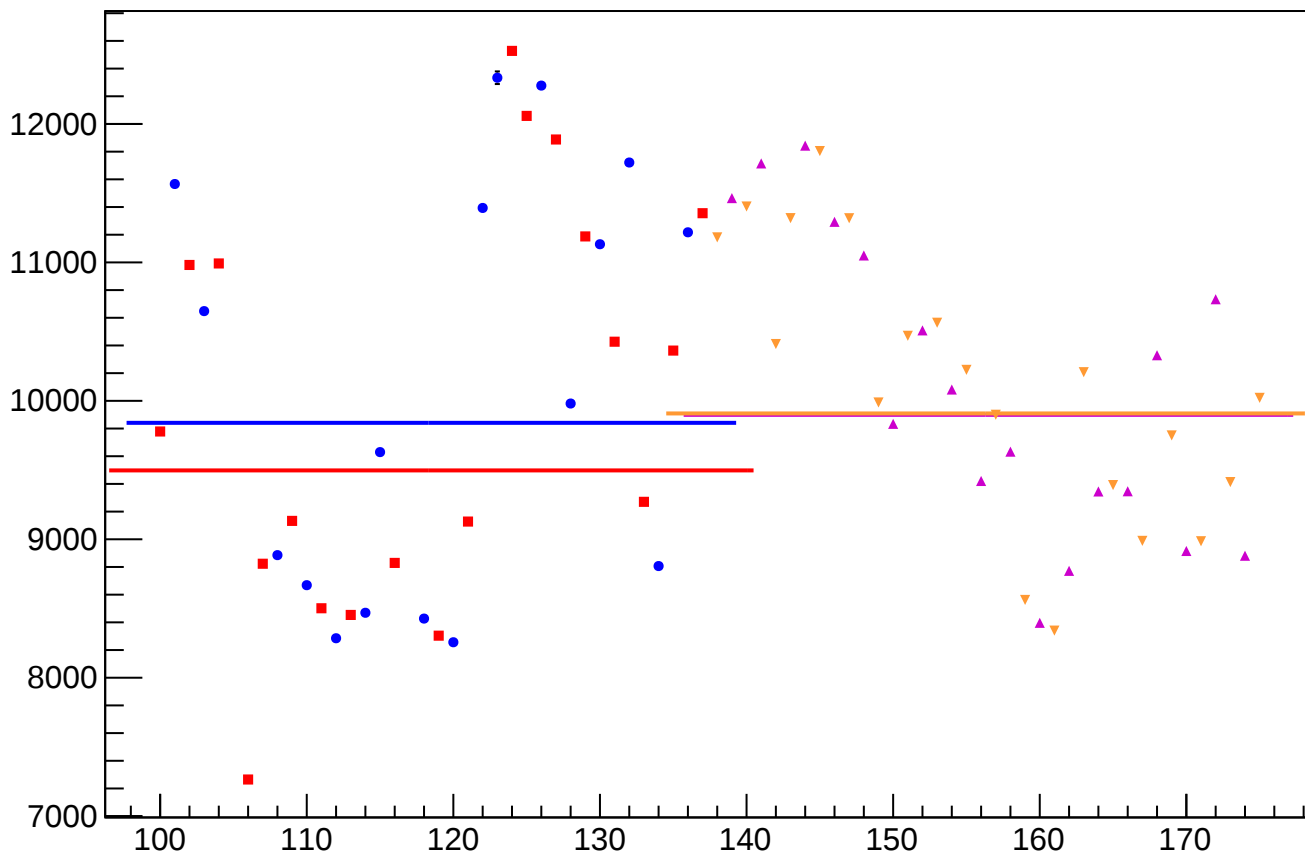
Right: 17.418+/-2.623 χ^2 /NDF: 82.3/35

In: -0.615+/-2.198 χ^2 /NDF:134.5/34

Out: -1.633+/-2.097 χ^2 /NDF:68.9/38

All: -1.149+/-1.517 χ^2 /NDF: 203.5/73

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 9908.988 ± 1.825 $\chi^2/\text{NDF}: 282216.8/19$

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

Left In: 9898.822 ± 1.897 $\chi^2/\text{NDF}: 297214.9/17$

Left: 9904.101 ± 1.315 $\chi^2/\text{NDF}: 579446.6/37$

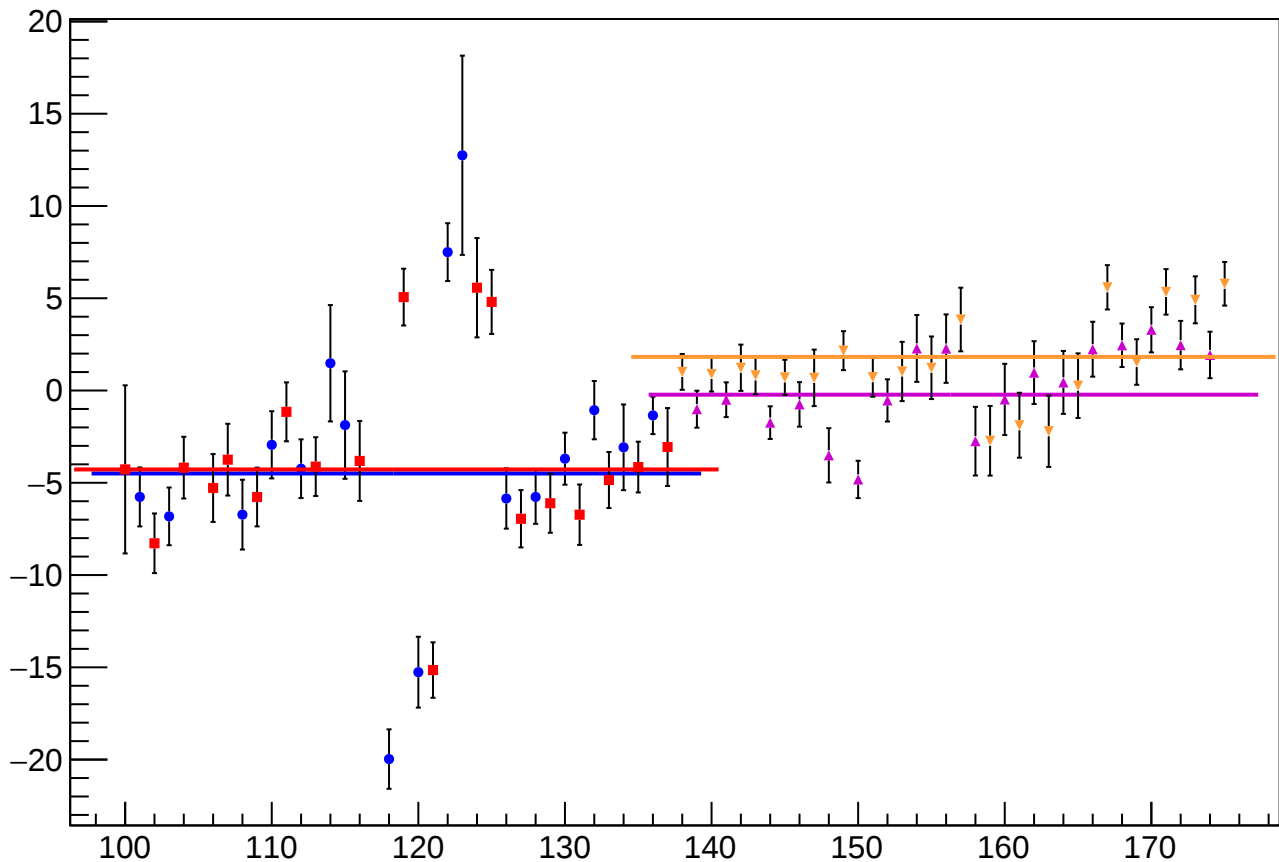
Right: 9658.117 ± 1.855 $\chi^2/\text{NDF}: 545307.6/35$

In: 9879.901 ± 1.555 $\chi^2/\text{NDF}: 557580.5/34$

Out: 9769.007 ± 1.482 $\chi^2/\text{NDF}: 576211.0/38$

All: 9821.825 ± 1.073 $\chi^2/\text{NDF}: 1136456.5/73$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.497 $\pm$ 0.408 χ^2/NDF : 218.4/16

Left Out: 1.823 $\pm$ 0.281 χ^2/NDF : 58.2/19

Right Out: -4.277 $\pm$ 0.394 χ^2/NDF : 148.2/18

Left In: -0.227 $\pm$ 0.299 χ^2/NDF : 59.0/17

Left: 0.862 $\pm$ 0.205 χ^2/NDF : 142.2/37

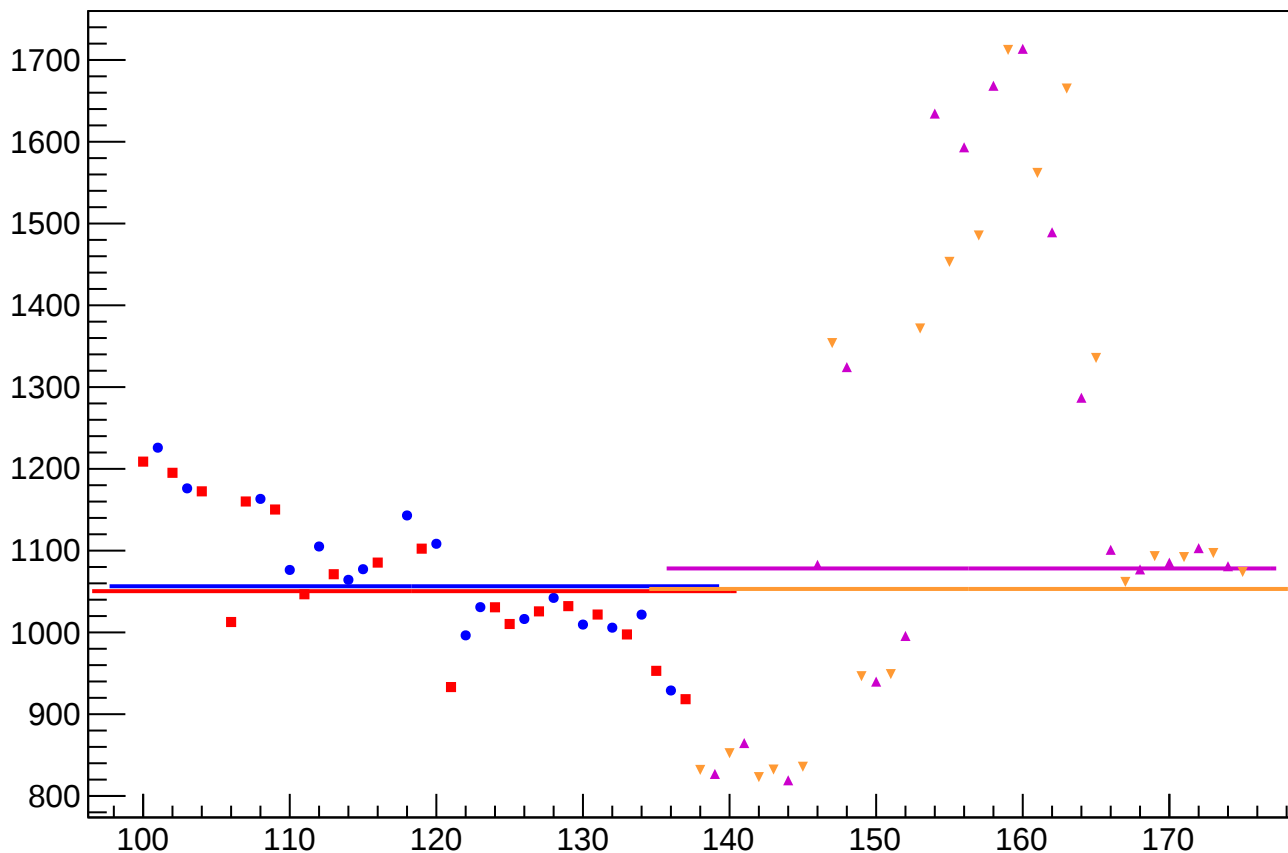
Right: -4.383 $\pm$ 0.283 χ^2/NDF : 366.8/35

In: -1.717 $\pm$ 0.241 χ^2/NDF : 348.7/34

Out: -0.233 $\pm$ 0.229 χ^2/NDF : 365.4/38

All: -0.936 $\pm$ 0.166 χ^2/NDF : 734.0/73

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

Left Out: 1053.153 ± 0.199 χ^2/NDF : 1561216.5/19

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

Left In: 1078.205 ± 0.211 χ^2/NDF : 1413135.5/17

Left: 1064.897 ± 0.145 χ^2/NDF : 2981813.5/37

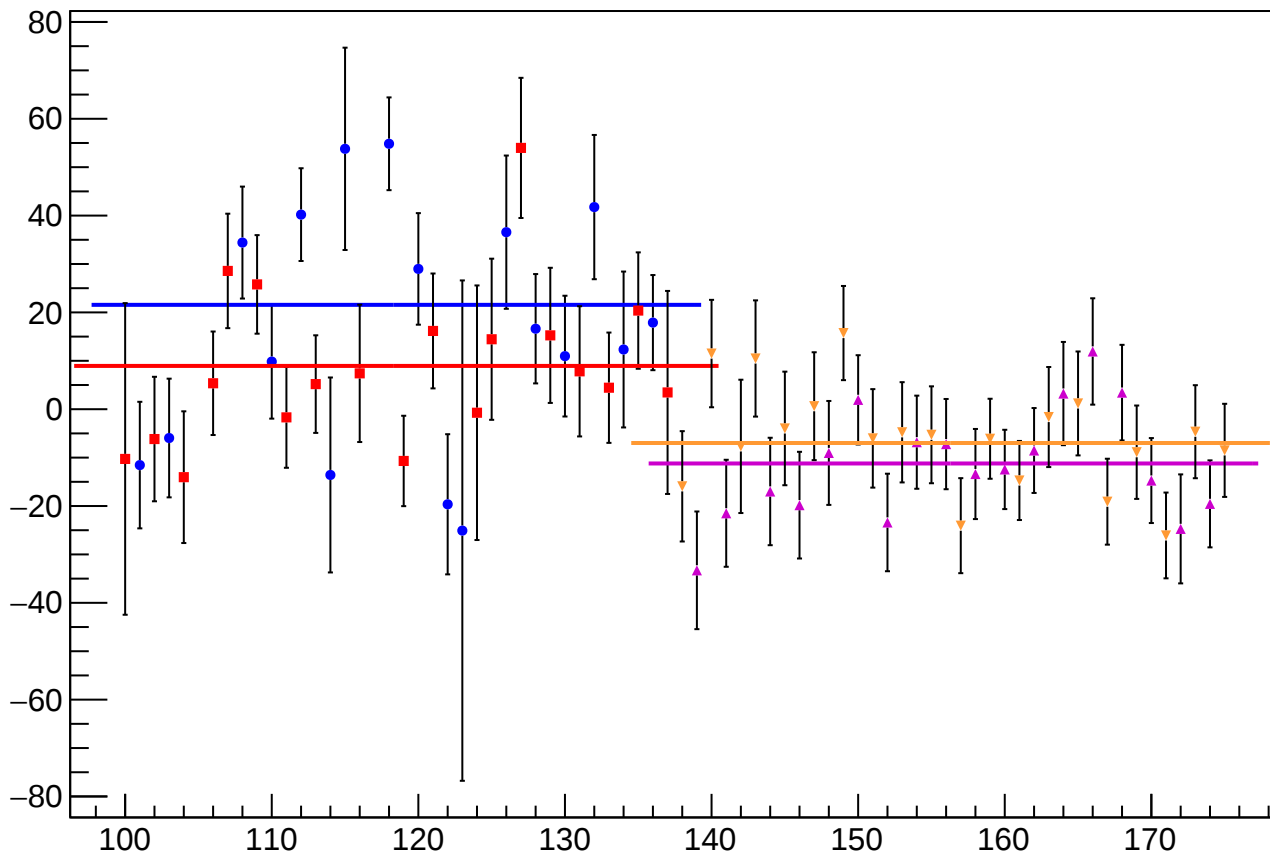
Right: 1053.333 ± 0.200 χ^2/NDF : 173392.8/35

In: 1070.605 ± 0.171 χ^2/NDF : 1507611.5/34

Out: 1052.240 ± 0.162 χ^2/NDF : 1643675.8/38

All: 1060.934 ± 0.117 χ^2/NDF : 3157394.4/73

diff_bpm0l08X_mean vs Slug, Sign Corrected



Left: -9.014 ± 1.616 $\chi^2/\text{NDF}: 44.8/37$

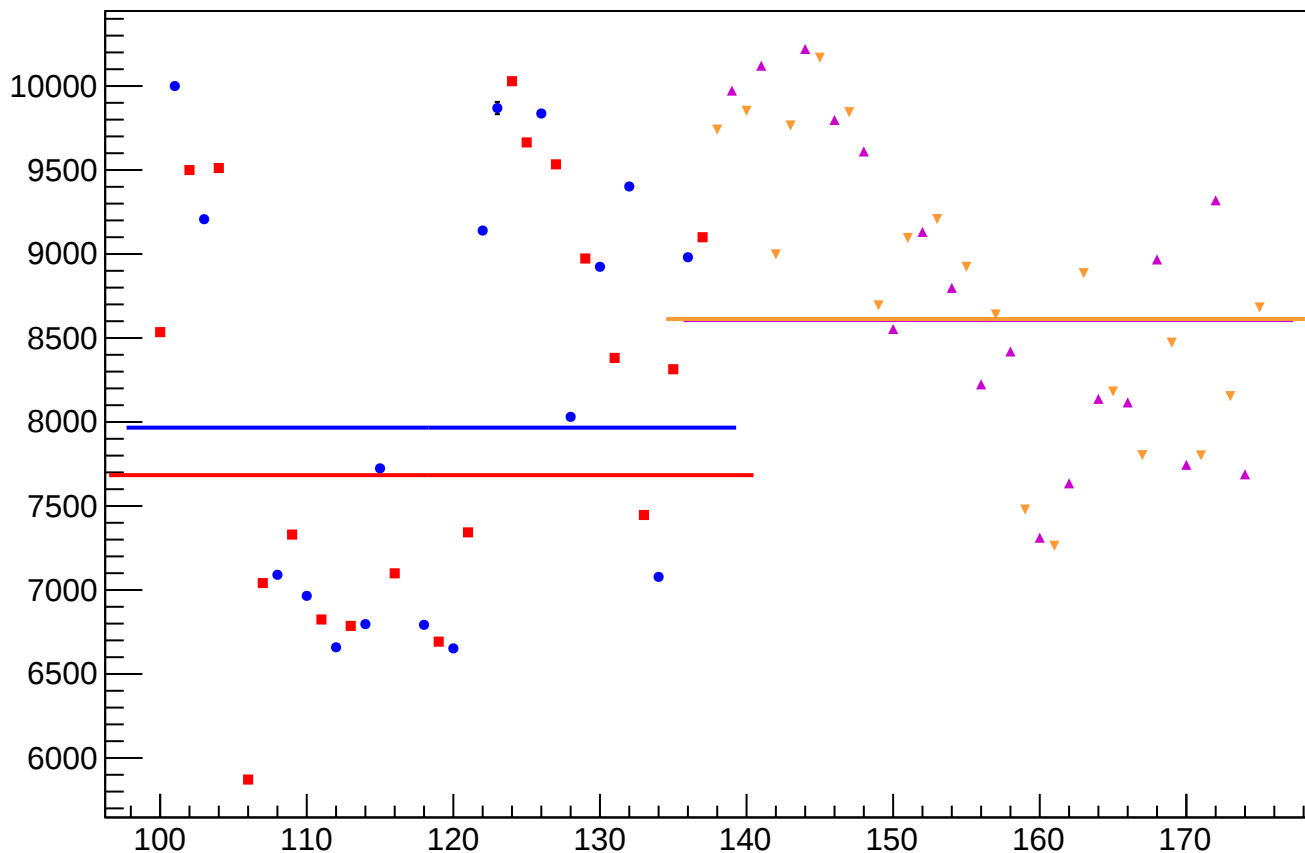
Right: 14.837 ± 2.126 $\chi^2/\text{NDF}: 84.6/35$

In: 0.579 ± 1.866 $\chi^2/\text{NDF}: 139.5/34$

Out: -1.050 ± 1.777 $\chi^2/\text{NDF}: 69.2/38$

All: -0.275 ± 1.287 $\chi^2/\text{NDF}: 209.2/73$

diff_bpm0l08X_rms vs Slug, Sign Corrected



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

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

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

Left In: 8606.616 $\pm$ 1.649 χ^2 /NDF: 289666.1/17

Left: 8610.043 $\pm$ 1.143 χ^2 /NDF: 562421.2/37

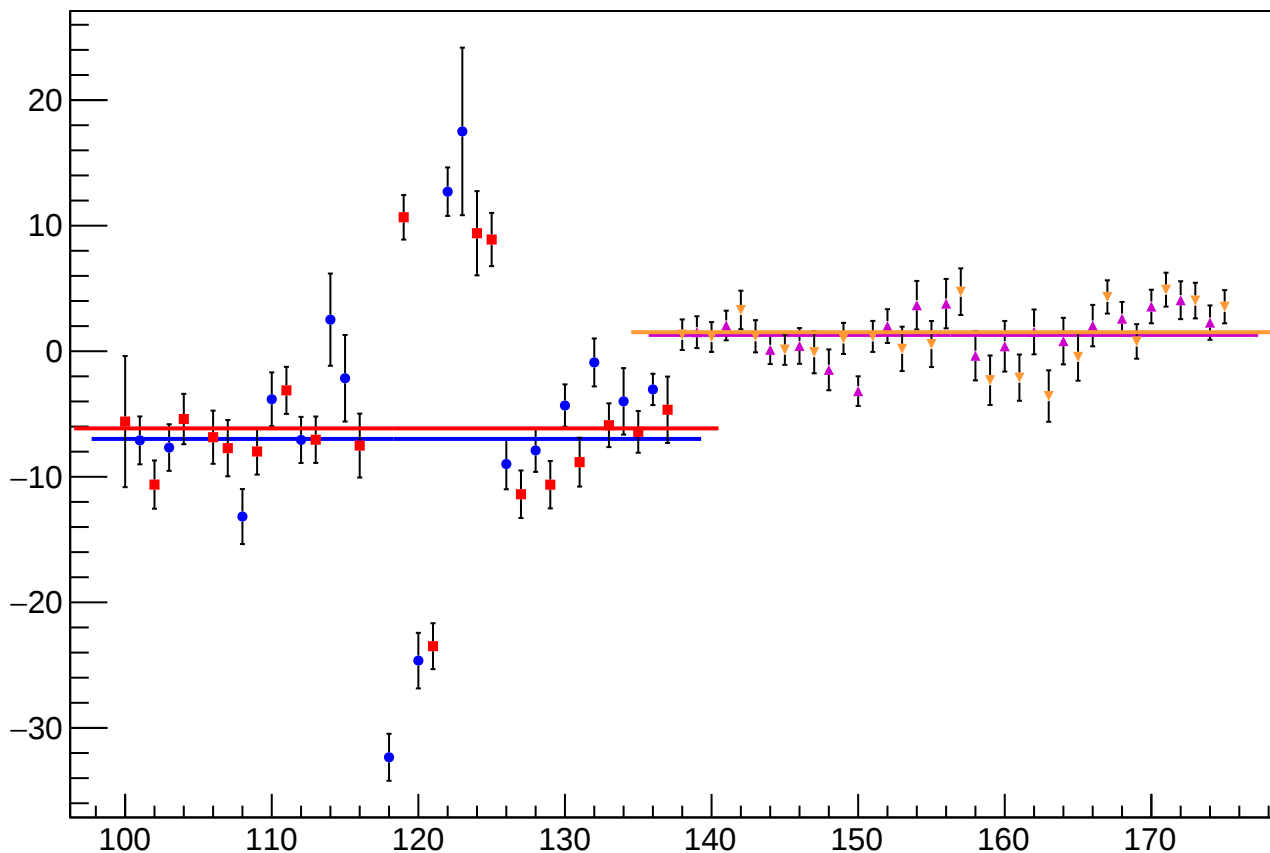
Right: 7815.627 $\pm$ 1.503 χ^2 /NDF: 620463.8/35

In: 8376.289 $\pm$ 1.319 χ^2 /NDF: 640526.5/34

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

All: 8318.974 $\pm$ 0.910 χ^2 /NDF: 1359870.5/73

diff_bpm0l08Y_mean vs Slug, Sign Corrected



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

Left Out: 1.516 ± 0.325 $\chi^2/\text{NDF}: 39.2/19$

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

Left In: 1.301 ± 0.346 $\chi^2/\text{NDF}: 31.4/17$

Left: 1.415 ± 0.237 $\chi^2/\text{NDF}: 70.9/37$

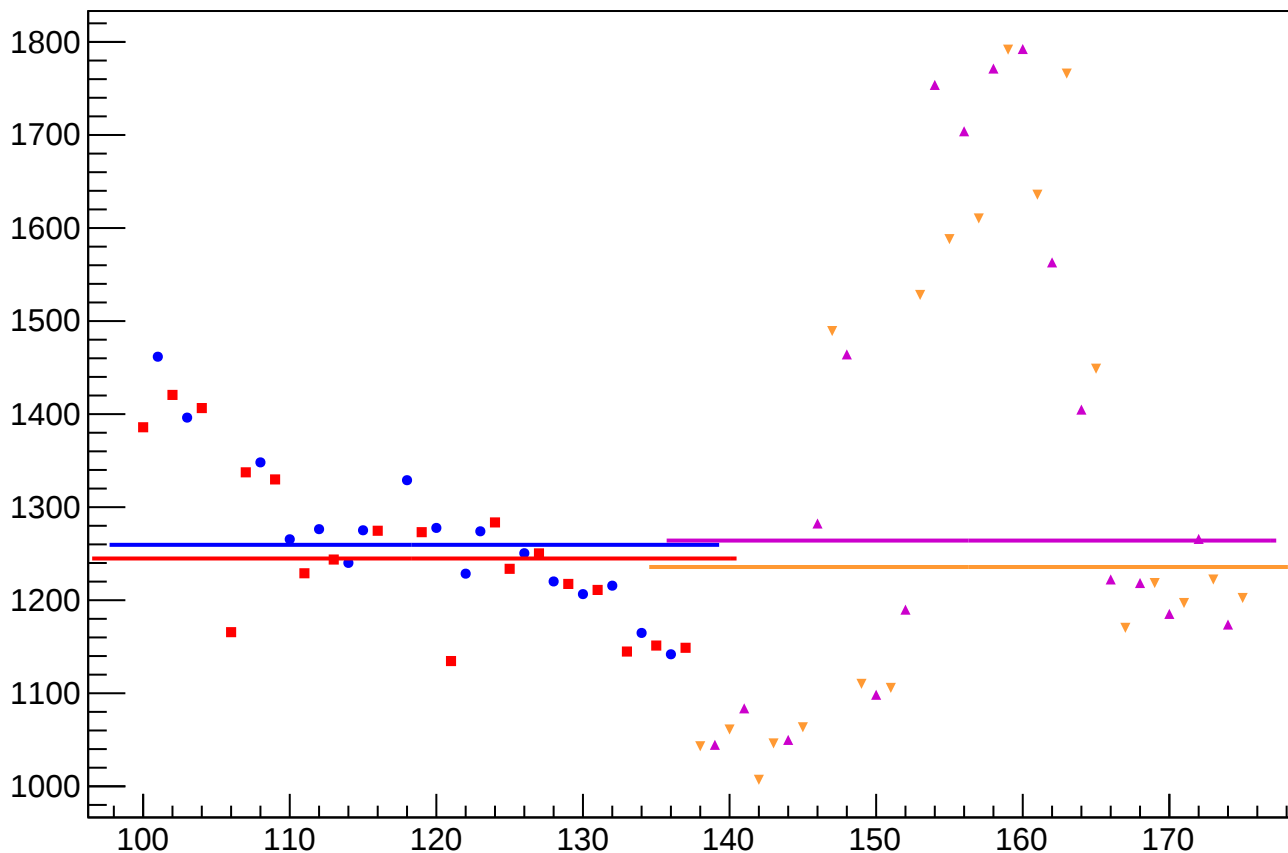
Right: -6.547 ± 0.337 $\chi^2/\text{NDF}: 687.6/35$

In: -1.484 ± 0.282 $\chi^2/\text{NDF}: 632.7/34$

Out: -0.991 ± 0.267 $\chi^2/\text{NDF}: 498.0/38$

All: -1.224 ± 0.194 $\chi^2/\text{NDF}: 1132.4/73$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 1264.105 ± 0.245 $\chi^2/\text{NDF}: 839439.2/17$

Left: 1249.036 ± 0.168 $\chi^2/\text{NDF}: 1787241.0/37$

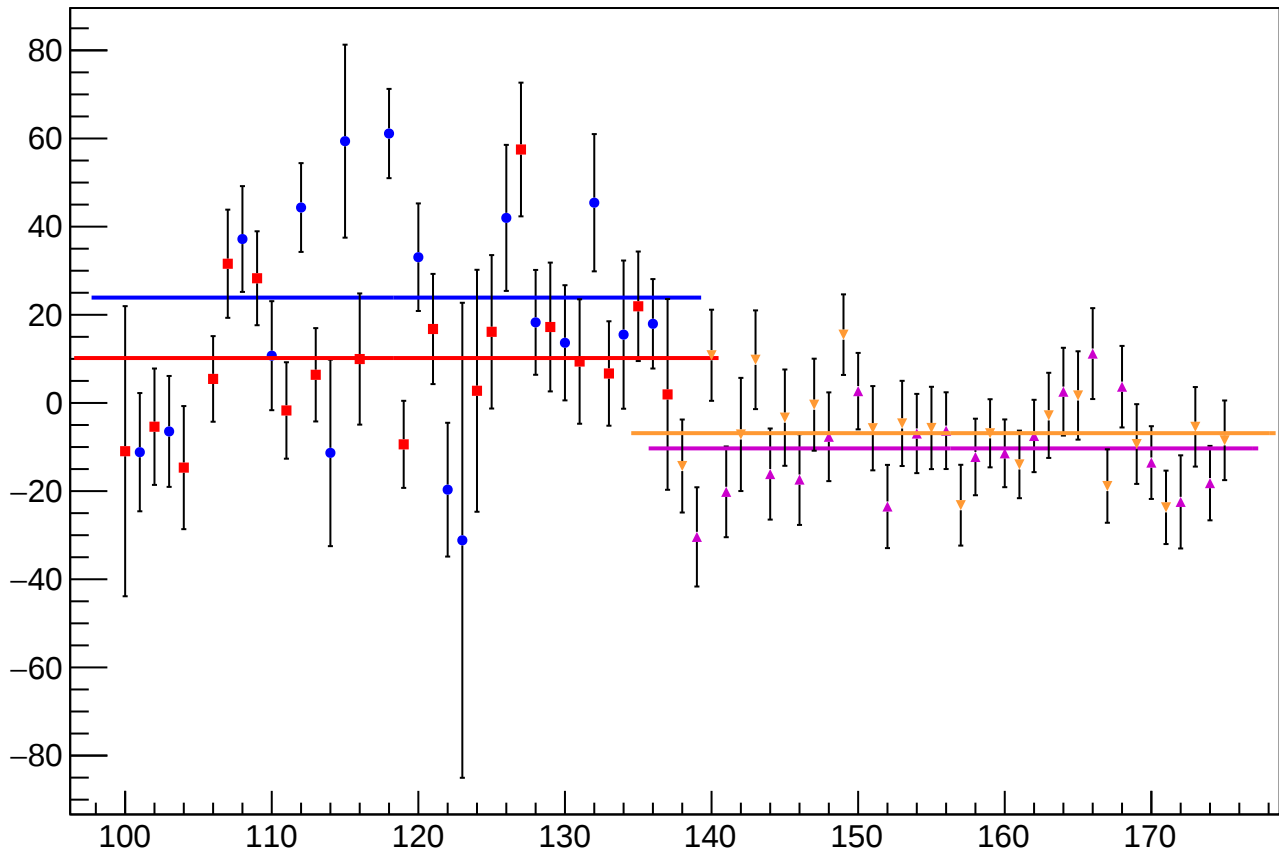
Right: 1251.883 ± 0.238 $\chi^2/\text{NDF}: 132621.3/35$

In: 1262.568 ± 0.199 $\chi^2/\text{NDF}: 904401.2/34$

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

All: 1249.980 ± 0.137 $\chi^2/\text{NDF}: 1919957.9/73$

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

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

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

Left In: -10.310 ± 2.182 $\chi^2/\text{NDF}: 20.3/17$

Left: -8.514 ± 1.513 $\chi^2/\text{NDF}: 45.1/37$

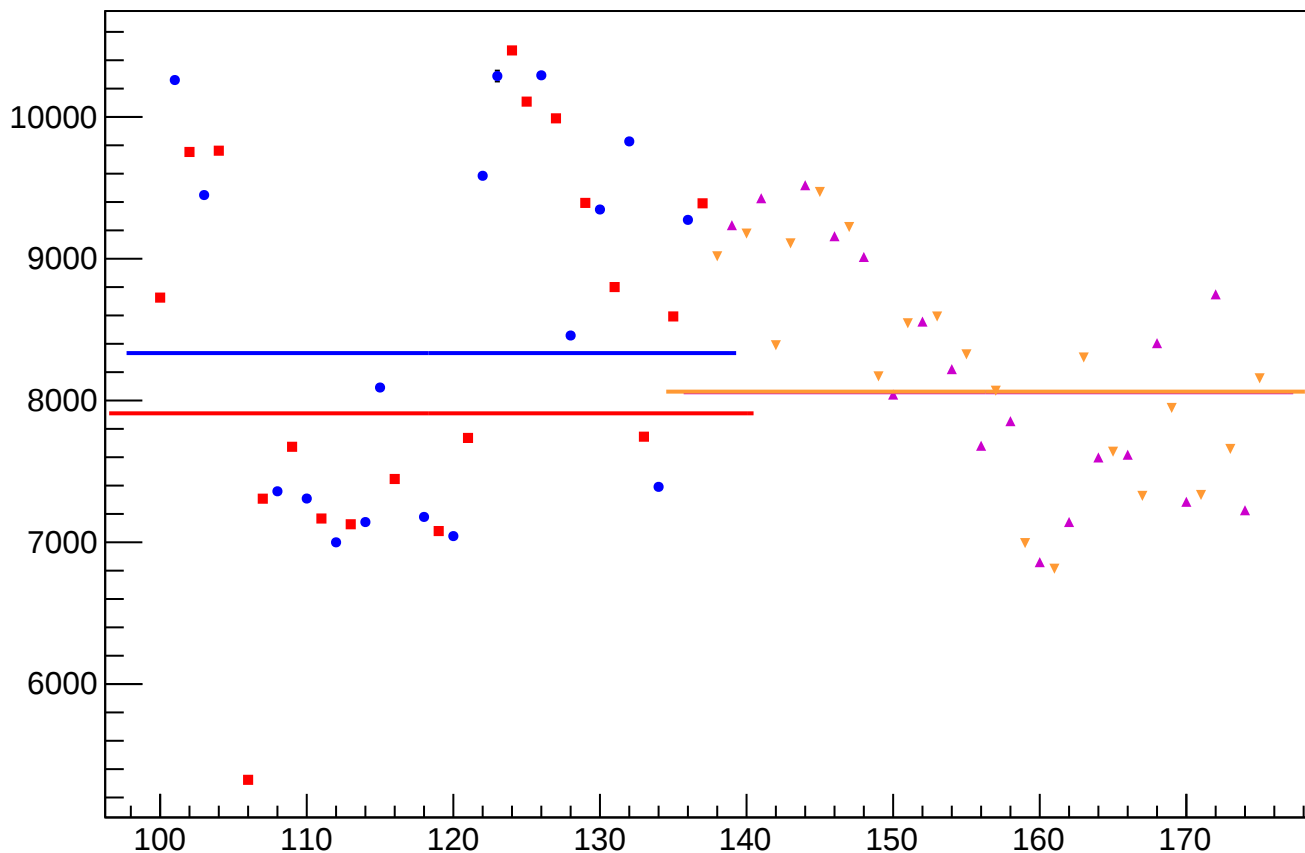
Right: 16.511 ± 2.207 $\chi^2/\text{NDF}: 90.0/35$

In: 0.320 ± 1.812 $\chi^2/\text{NDF}: 149.2/34$

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

All: -0.513 ± 1.248 $\chi^2/\text{NDF}: 222.5/73$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.507 ± 2.299 $\chi^2/\text{NDF}: 272302.6/16$

Left Out: 8062.680 ± 1.484 $\chi^2/\text{NDF}: 260937.7/19$

Right Out: 7909.620 ± 2.125 $\chi^2/\text{NDF}: 390819.3/18$

Left In: 8058.179 ± 1.543 $\chi^2/\text{NDF}: 278833.2/17$

Left: 8060.517 ± 1.070 $\chi^2/\text{NDF}: 539775.4/37$

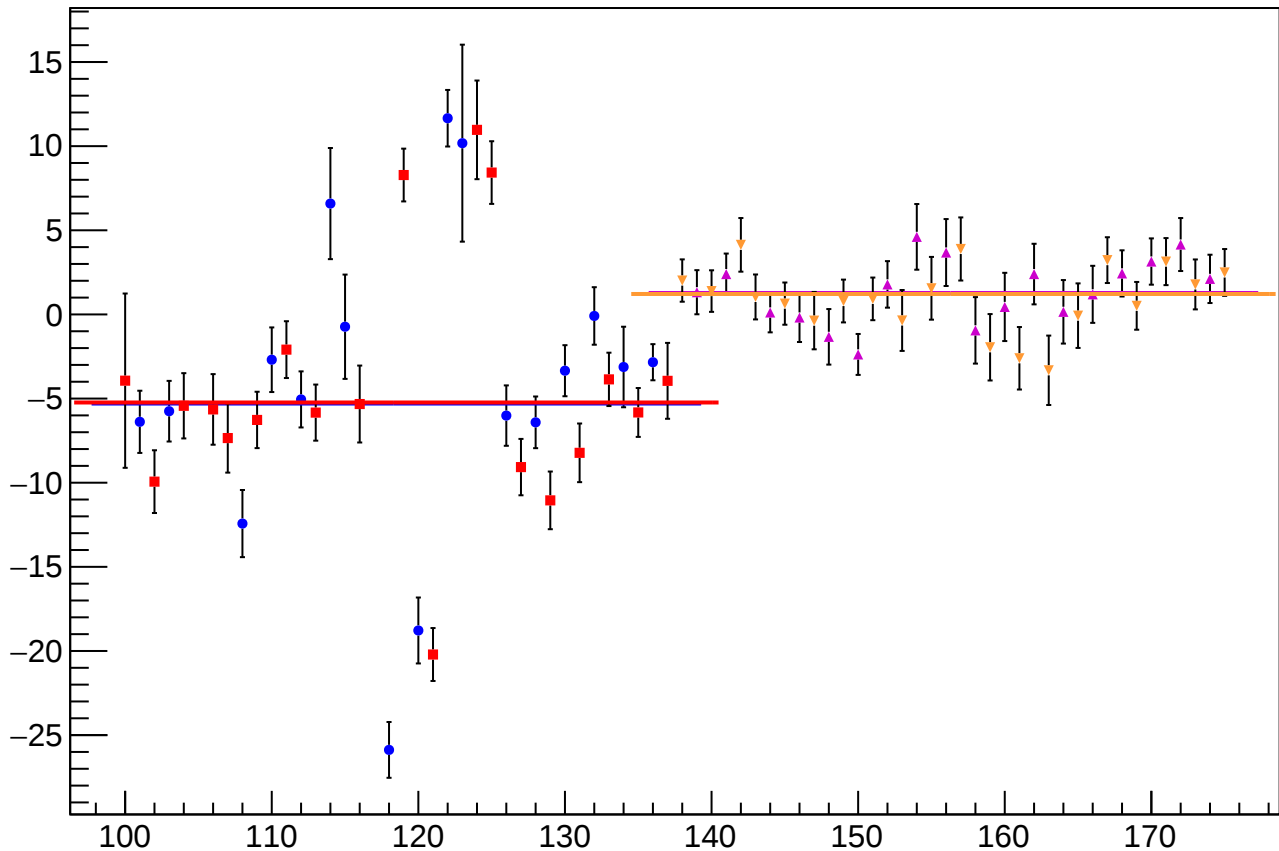
Right: 8105.450 ± 1.560 $\chi^2/\text{NDF}: 681543.4/35$

In: 8144.035 ± 1.281 $\chi^2/\text{NDF}: 561098.2/34$

Out: 8012.498 ± 1.217 $\chi^2/\text{NDF}: 655243.3/38$

All: 8074.883 ± 0.882 $\chi^2/\text{NDF}: 1221882.9/73$

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.274 ± 0.356 χ^2/NDF : 27.3/17

Left: 1.243 ± 0.244 χ^2/NDF : 52.5/37

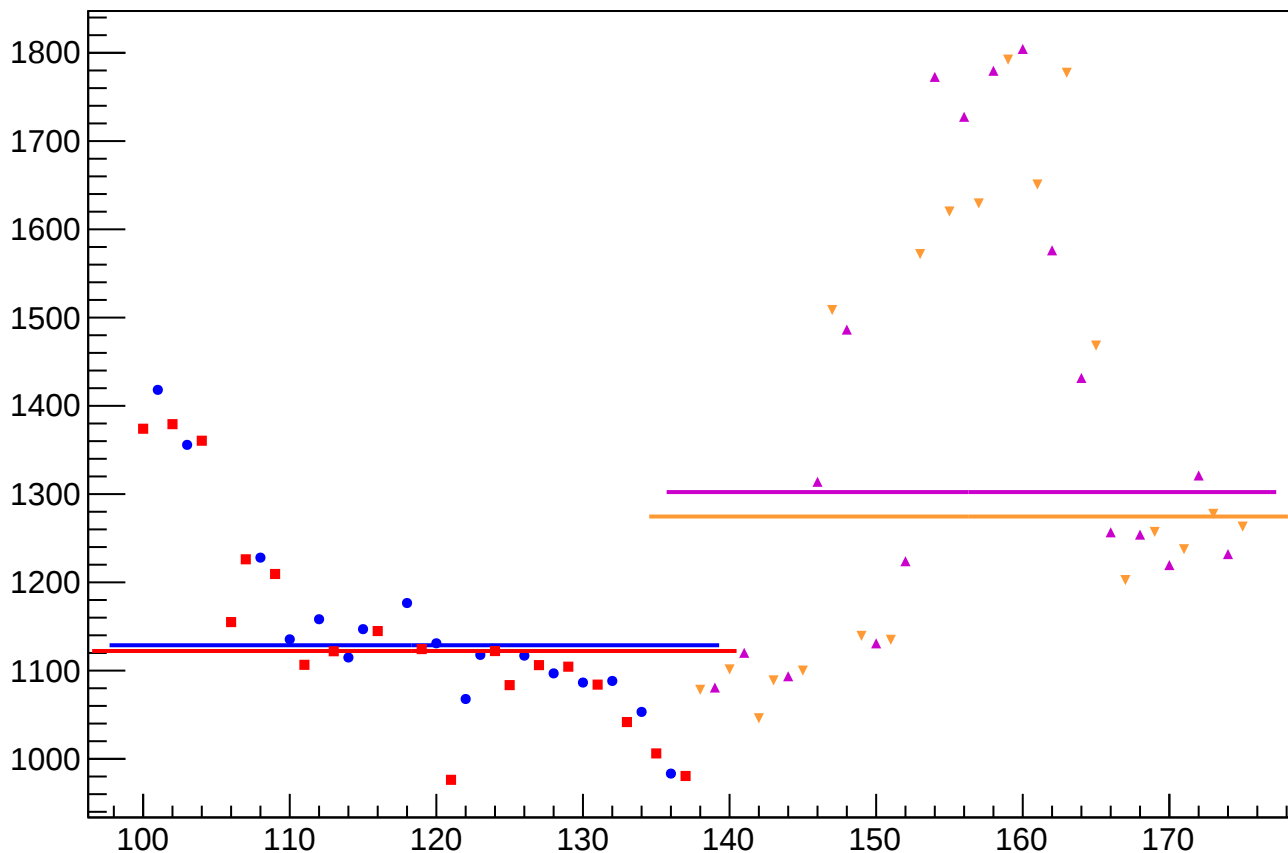
Right: -5.263 ± 0.303 χ^2/NDF : 640.0/35

In: -1.344 ± 0.276 χ^2/NDF : 521.4/34

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

All: -1.310 ± 0.190 χ^2/NDF : 972.0/73

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 1302.295 ± 0.251 $\chi^2/\text{NDF}: 754251.9/17$

Left: 1287.616 ± 0.172 $\chi^2/\text{NDF}: 1612722.5/37$

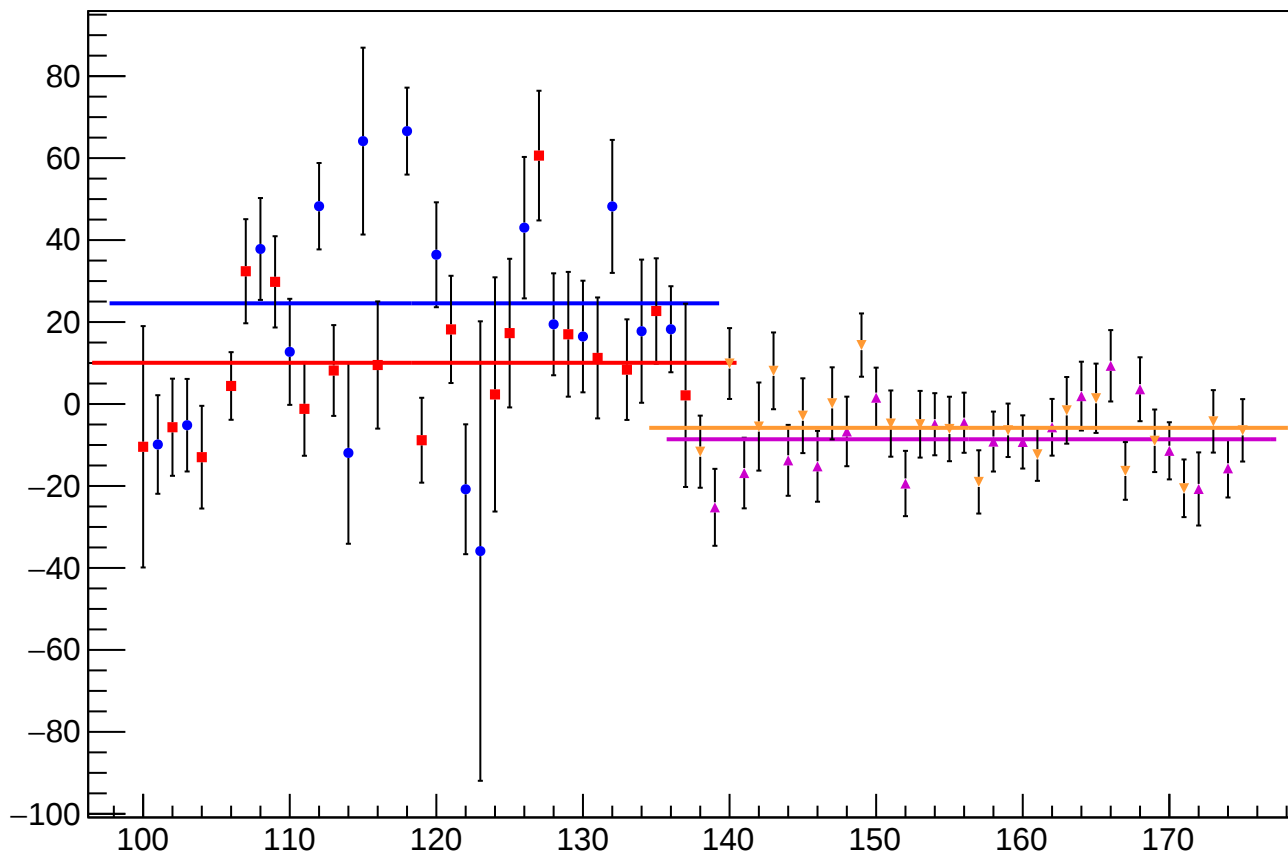
Right: 1125.374 ± 0.215 $\chi^2/\text{NDF}: 262927.9/35$

In: 1233.127 ± 0.195 $\chi^2/\text{NDF}: 1077224.2/34$

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

All: 1223.951 ± 0.134 $\chi^2/\text{NDF}: 2223182.4/73$

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

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

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

Left In: -8.602 ± 1.838 $\chi^2/\text{NDF}: 20.8/17$

Left: -7.154 ± 1.274 $\chi^2/\text{NDF}: 47.1/37$

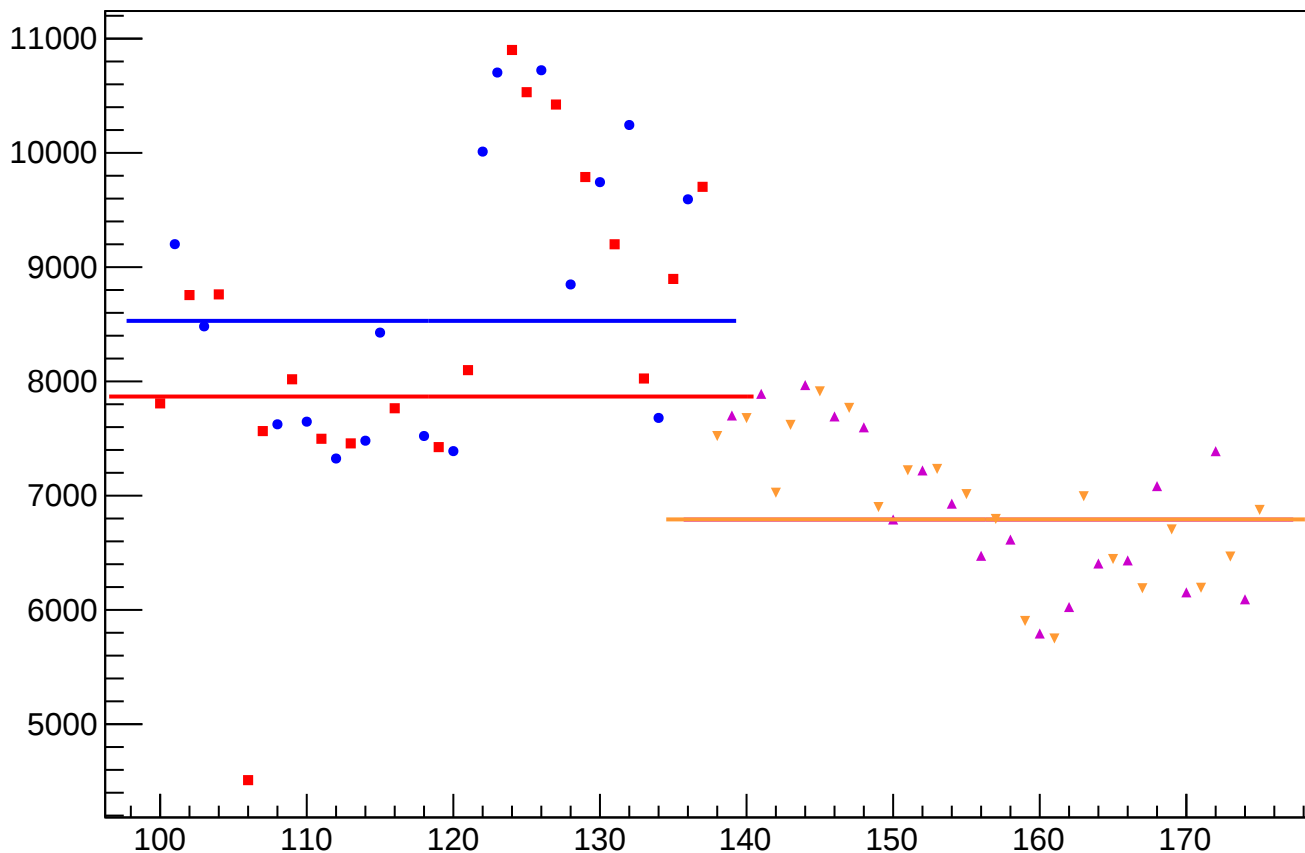
Right: 16.602 ± 2.229 $\chi^2/\text{NDF}: 97.4/35$

In: -0.811 ± 1.608 $\chi^2/\text{NDF}: 155.3/34$

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

All: -1.300 ± 1.106 $\chi^2/\text{NDF}: 230.2/73$

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6792.194 $\pm$ 1.250 χ^2/NDF : 246624.2/19

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

Left In: 6790.507 $\pm$ 1.300 χ^2/NDF : 266786.1/17

Left: 6791.383 $\pm$ 0.901 χ^2/NDF : 513411.2/37

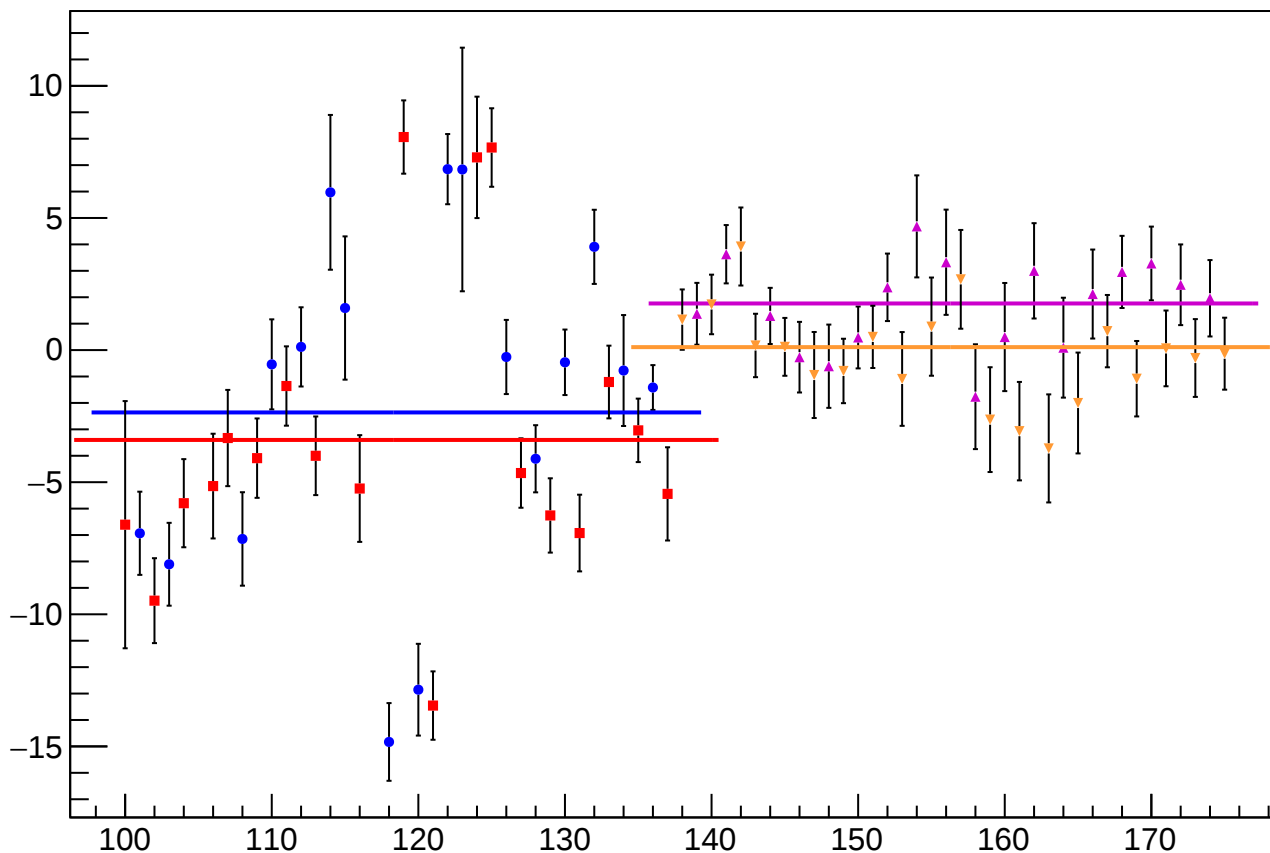
Right: 8166.253 $\pm$ 1.576 χ^2/NDF : 807907.7/35

In: 7199.001 $\pm$ 1.137 χ^2/NDF : 895537.0/34

Out: 7068.317 $\pm$ 1.078 χ^2/NDF : 992501.4/38

All: 7130.152 $\pm$ 0.782 χ^2/NDF : 1894996.6/73

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

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

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

Left In: 1.764 ± 0.340 χ^2/NDF : 19.1/17

Left: 0.888 ± 0.233 χ^2/NDF : 55.3/37

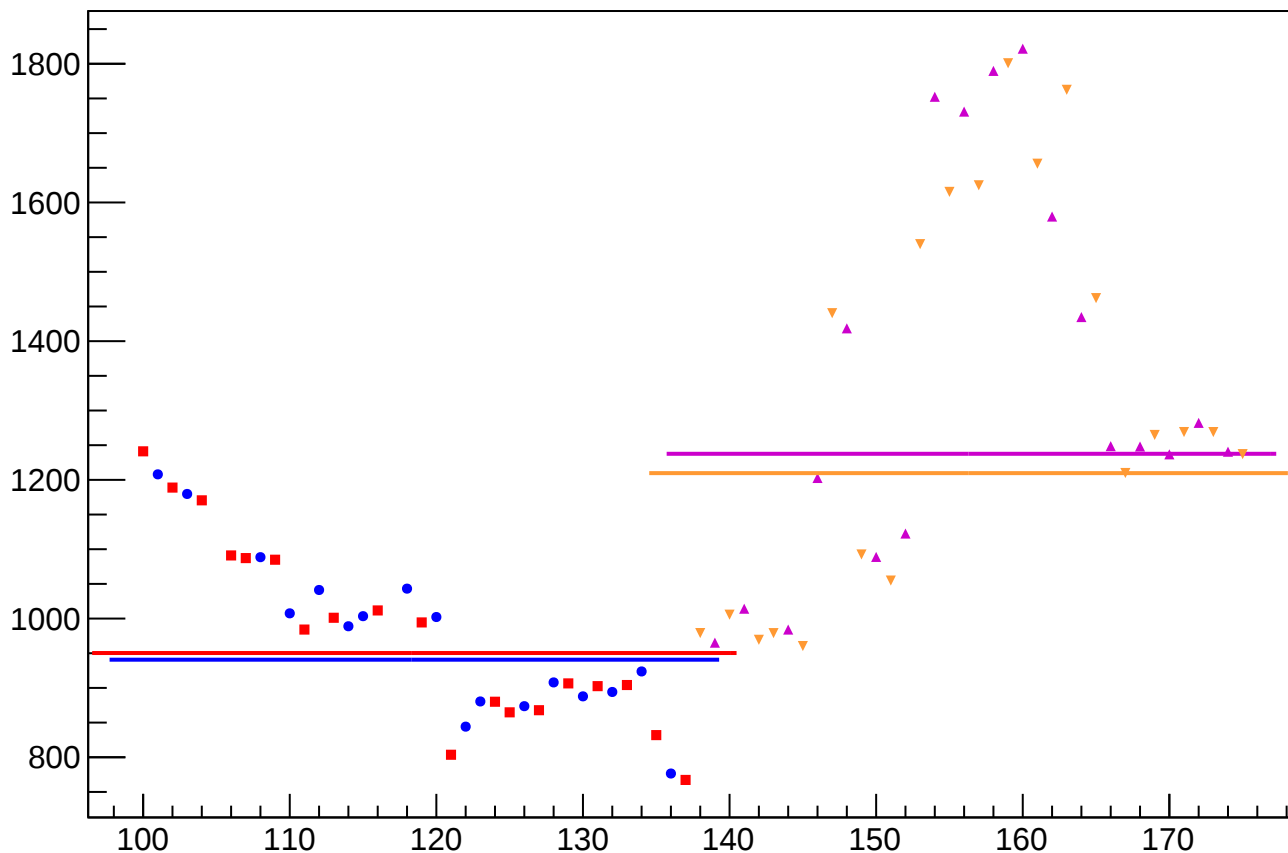
Right: -2.891 ± 0.256 χ^2/NDF : 477.6/35

In: -0.149 ± 0.249 χ^2/NDF : 319.4/34

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

All: -0.825 ± 0.172 χ^2/NDF : 652.2/73

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 1237.603 +/- 0.240 χ^2/NDF : 1058792.0/17

Left: 1222.812 +/- 0.165 χ^2/NDF : 2283919.5/37

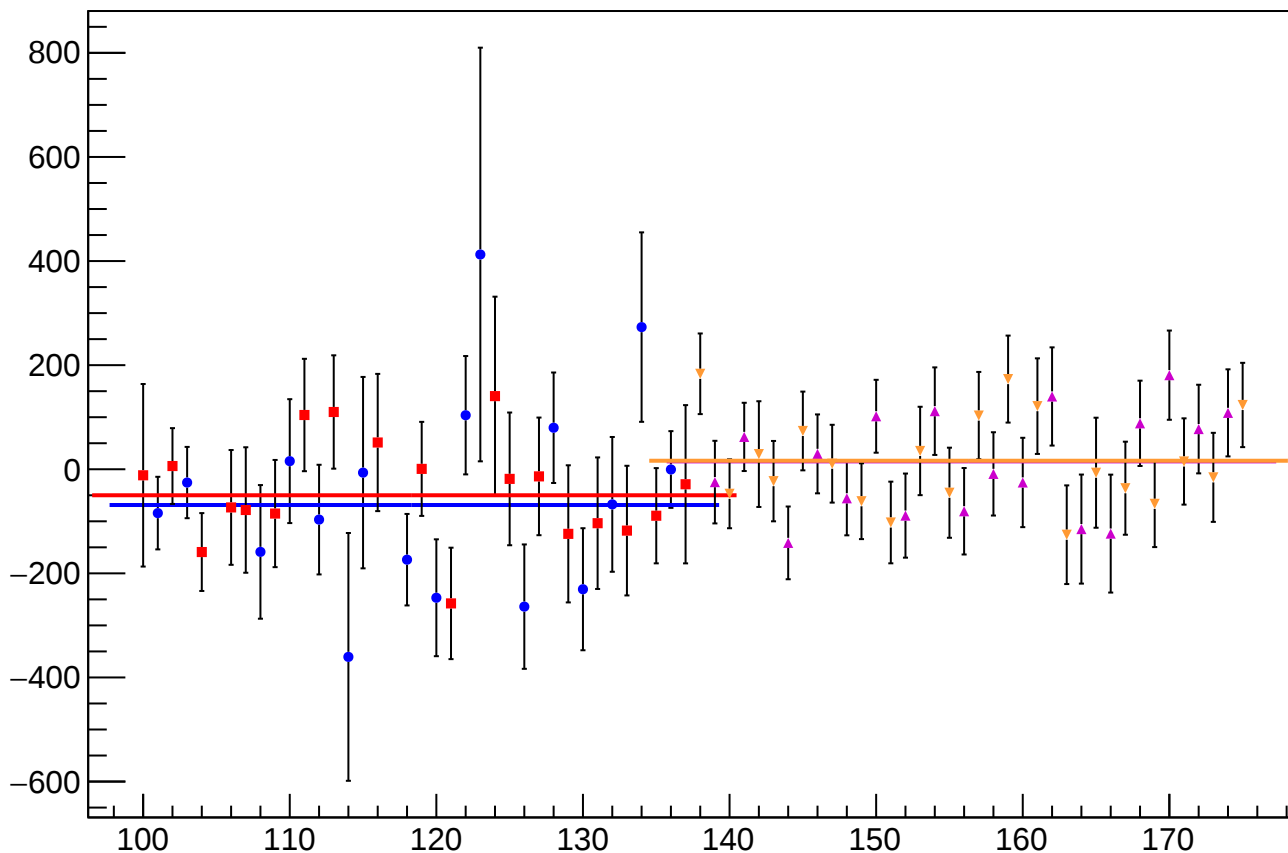
Right: 945.597 +/- 0.181 χ^2/NDF : 463155.1/35

In: 1099.898 +/- 0.176 χ^2/NDF : 2008119.0/34

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

All: 1097.151 +/- 0.122 χ^2/NDF : 4030784.5/73

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -68.688 ± 25.946 χ^2/NDF : 21.8/16

Left Out: 16.368 ± 18.424 χ^2/NDF : 21.8/19

Right Out: -49.958 ± 25.020 χ^2/NDF : 14.0/18

Left In: 15.117 ± 19.068 χ^2/NDF : 24.1/17

Left: 15.764 ± 13.250 χ^2/NDF : 45.9/37

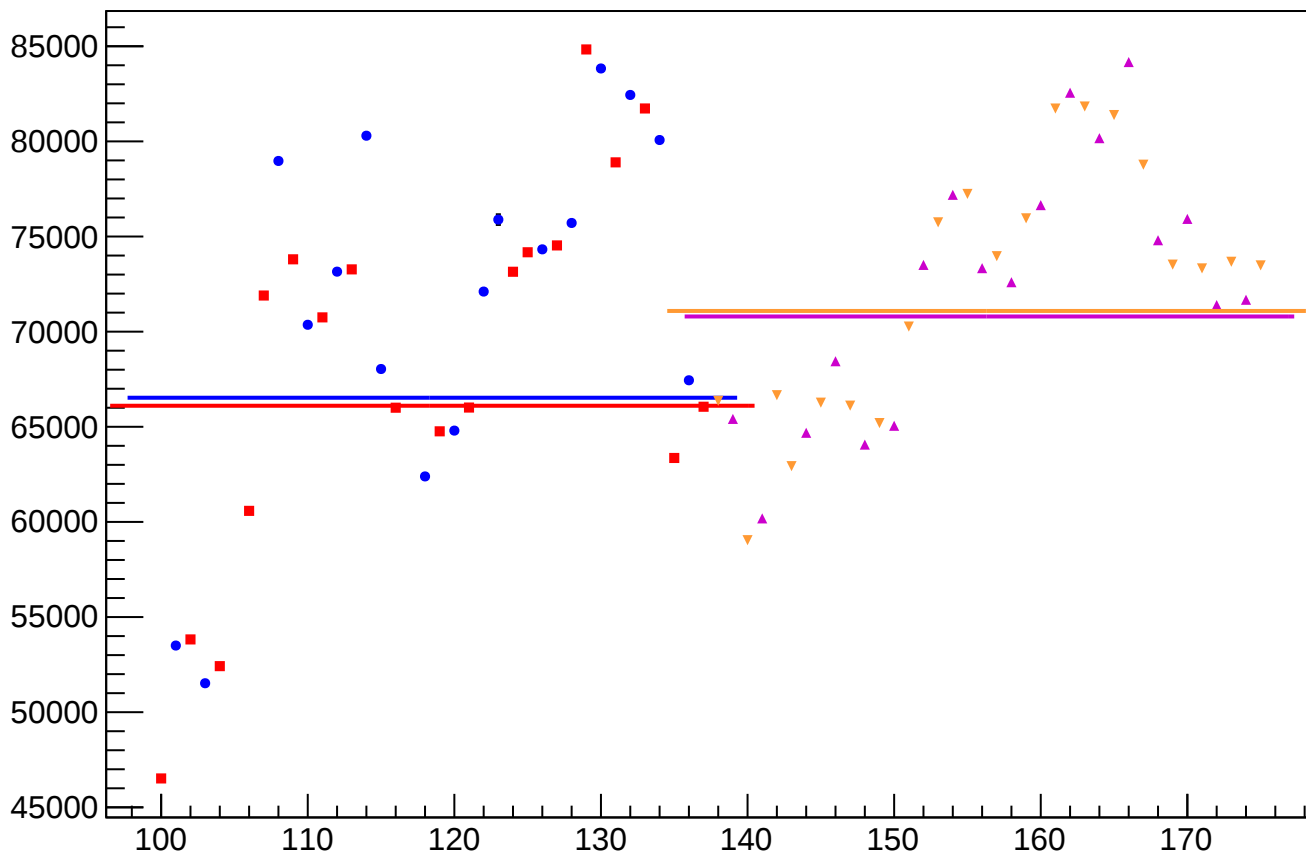
Right: -58.983 ± 18.010 χ^2/NDF : 36.0/35

In: -14.273 ± 15.365 χ^2/NDF : 52.6/34

Out: -6.953 ± 14.836 χ^2/NDF : 40.4/38

All: -10.485 ± 10.673 χ^2/NDF : 93.1/73

diff_bpm0r03X_rms vs Slug, Sign Corrected



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

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

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

Left In: 70797.245+/-13.483 χ^2/NDF : 223396.1/17

Left: 70947.569+/-9.369 χ^2/NDF : 472052.0/37

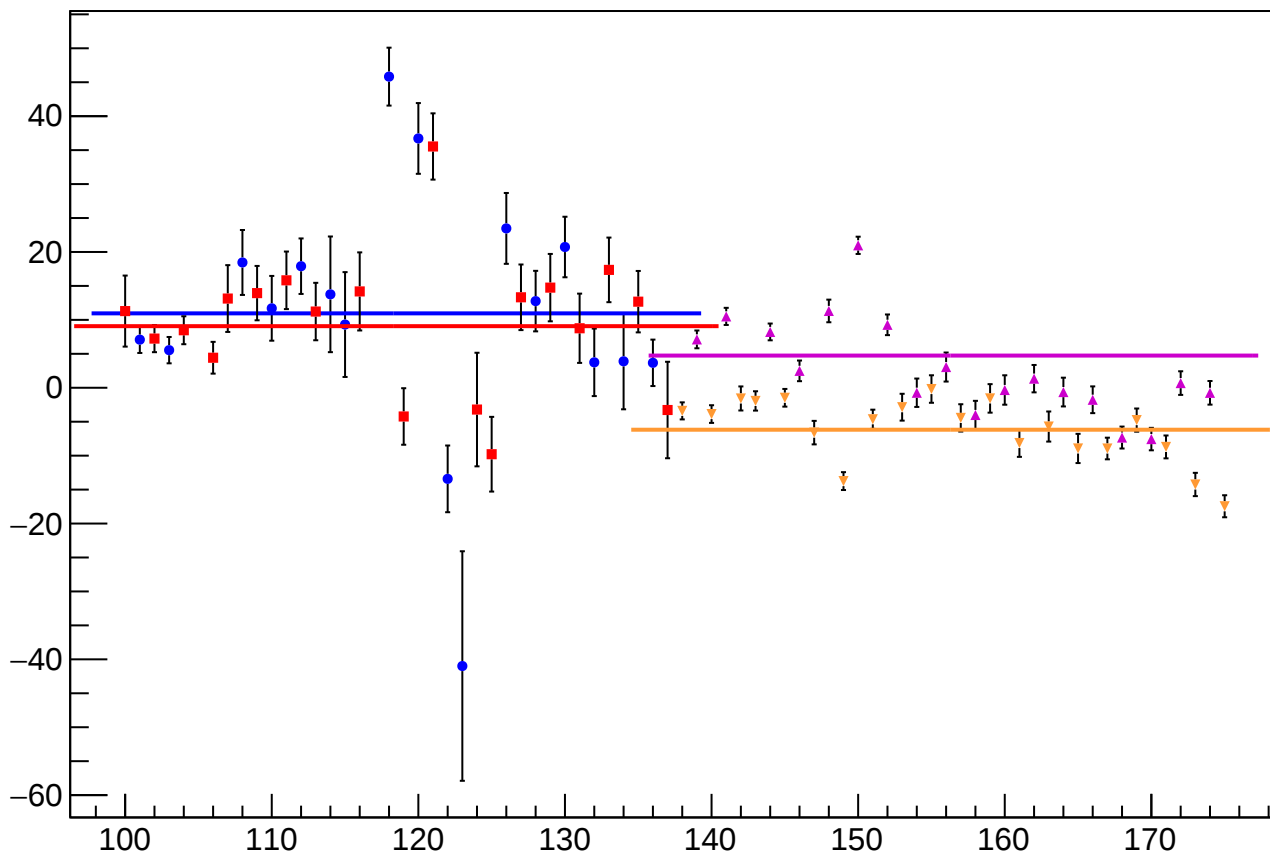
Right: 66308.894+/-12.735 χ^2/NDF : 619646.0/35

In: 69299.785+/-10.865 χ^2/NDF : 579455.3/34

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

All: 69318.624+/-7.547 χ^2/NDF : 1177781.3/77

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.958 ± 0.943 $\chi^2/\text{NDF}: 160.9/16$

Left Out: -6.180 ± 0.366 $\chi^2/\text{NDF}: 167.1/19$

Right Out: 9.072 ± 0.866 $\chi^2/\text{NDF}: 73.1/18$

Left In: 4.741 ± 0.385 $\chi^2/\text{NDF}: 399.4/17$

Left: -1.005 ± 0.265 $\chi^2/\text{NDF}: 989.3/37$

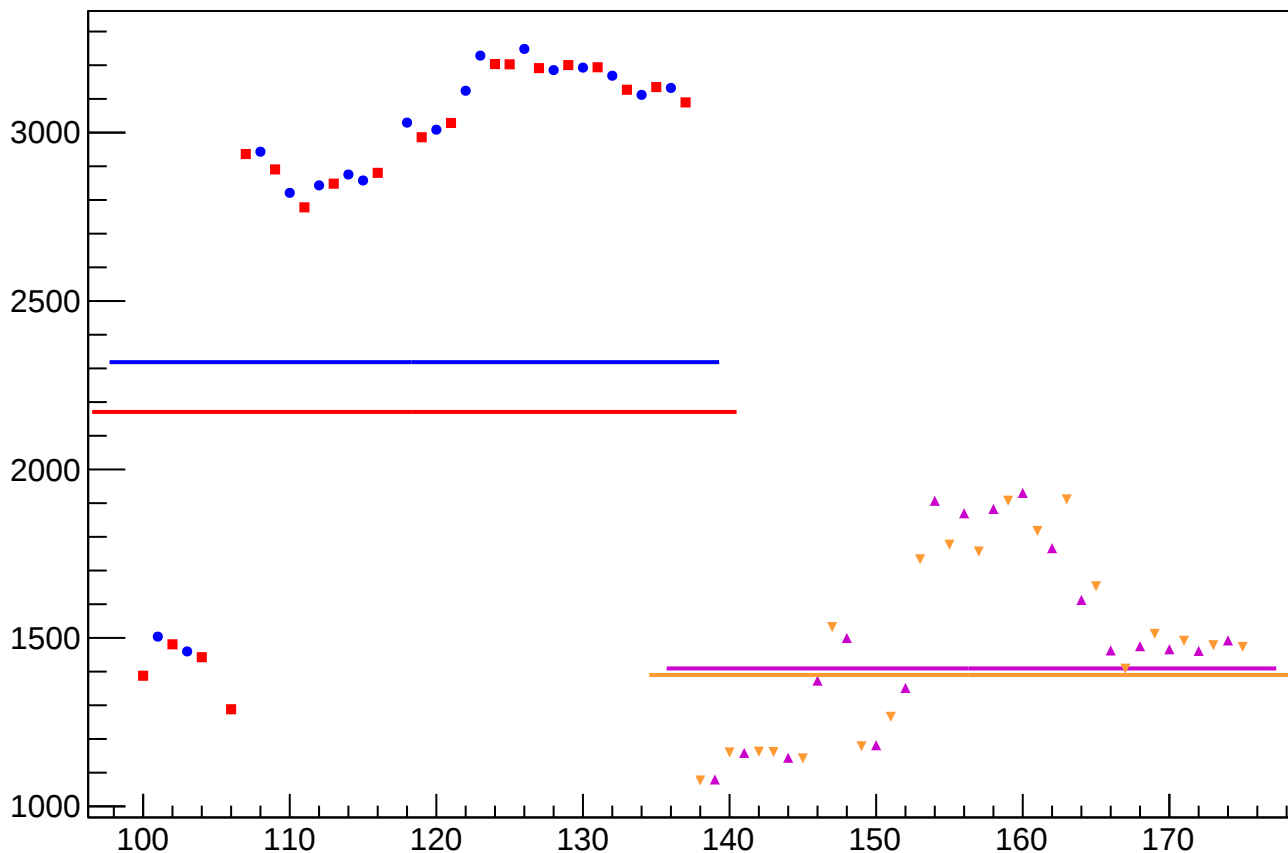
Right: 9.935 ± 0.638 $\chi^2/\text{NDF}: 236.2/35$

In: 5.630 ± 0.357 $\chi^2/\text{NDF}: 597.6/34$

Out: -3.874 ± 0.337 $\chi^2/\text{NDF}: 503.3/38$

All: 0.607 ± 0.245 $\chi^2/\text{NDF}: 1476.2/73$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 1409.351 $\pm$ 0.272 χ^2/NDF : 891719.4/17

Left: 1399.130 $\pm$ 0.188 χ^2/NDF : 1896397.3/37

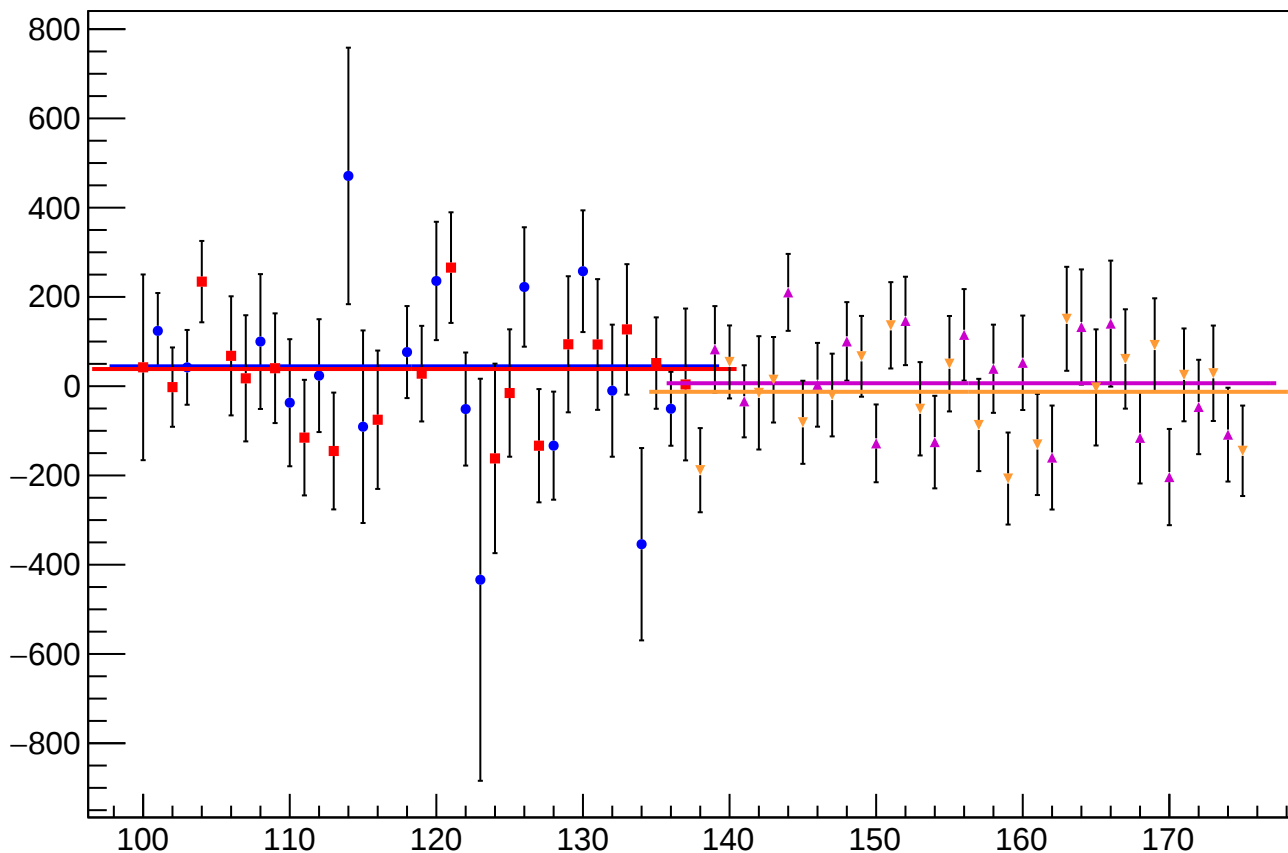
Right: 2238.439 $\pm$ 0.451 χ^2/NDF : 3188639.4/35

In: 1539.371 $\pm$ 0.252 χ^2/NDF : 3893002.1/34

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

All: 1522.781 $\pm$ 0.173 χ^2/NDF : 8036027.4/73

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 44.484+/-30.432 χ^2/NDF : 19.1/16

Left Out: -12.589+/-22.820 χ^2/NDF : 18.9/19

Right Out: 38.425+/-29.435 χ^2/NDF : 15.7/18

Left In: 6.626+/-23.596 χ^2/NDF : 25.6/17

Left: -3.302+/-16.404 χ^2/NDF : 44.8/37

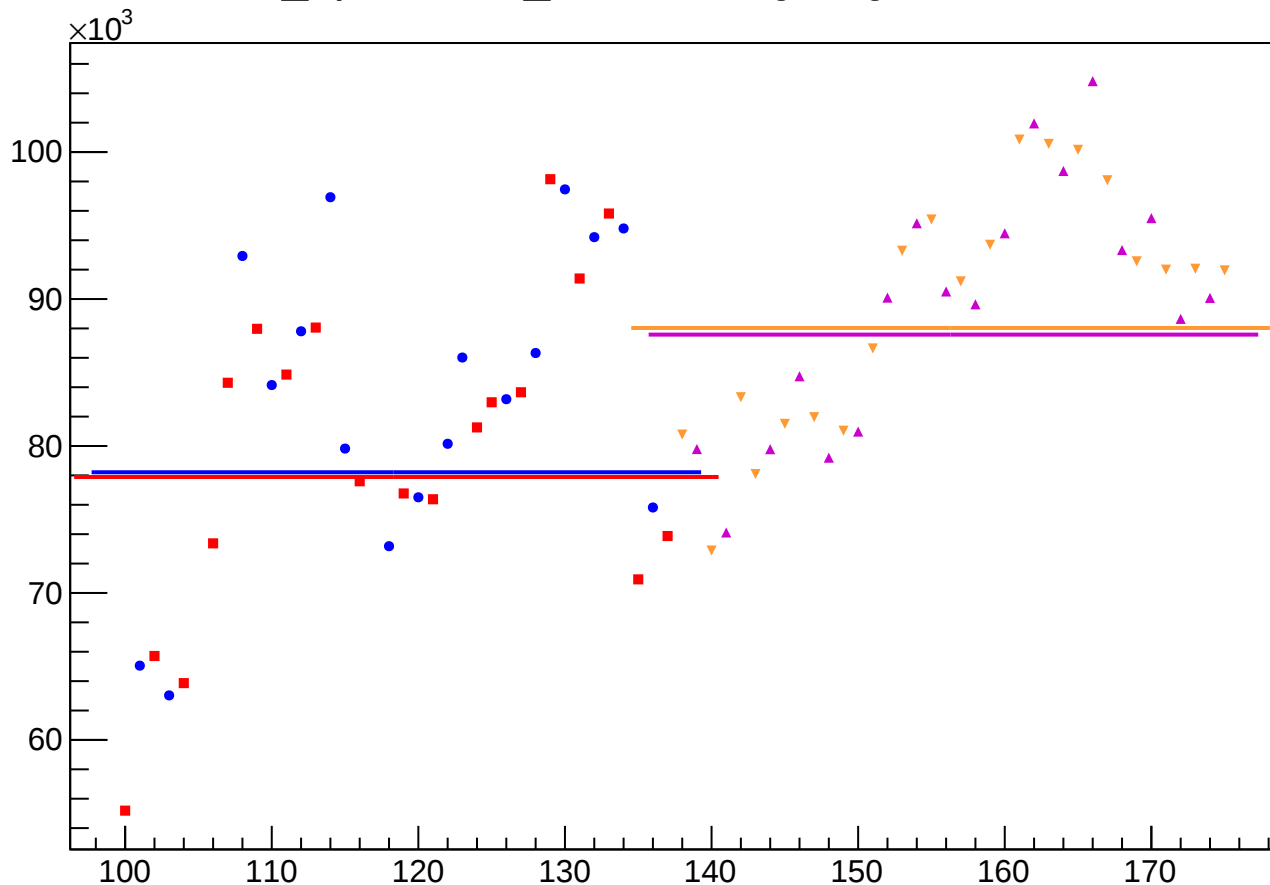
Right: 41.353+/-21.157 χ^2/NDF : 34.9/35

In: 20.840+/-18.647 χ^2/NDF : 45.6/34

Out: 6.562+/-18.035 χ^2/NDF : 36.6/38

All: 13.463+/-12.964 χ^2/NDF : 82.5/73

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78213.025 $\pm$ 21.519 χ^2/NDF : 251056.7/16

Left Out: 88031.010 $\pm$ 16.136 χ^2/NDF : 252906.5/19

Right Out: 77891.938 $\pm$ 20.814 χ^2/NDF : 246970.2/18

Left In: 87579.640 $\pm$ 16.685 χ^2/NDF : 232939.8/17

Left: 87812.863 $\pm$ 11.599 χ^2/NDF : 486224.5/37

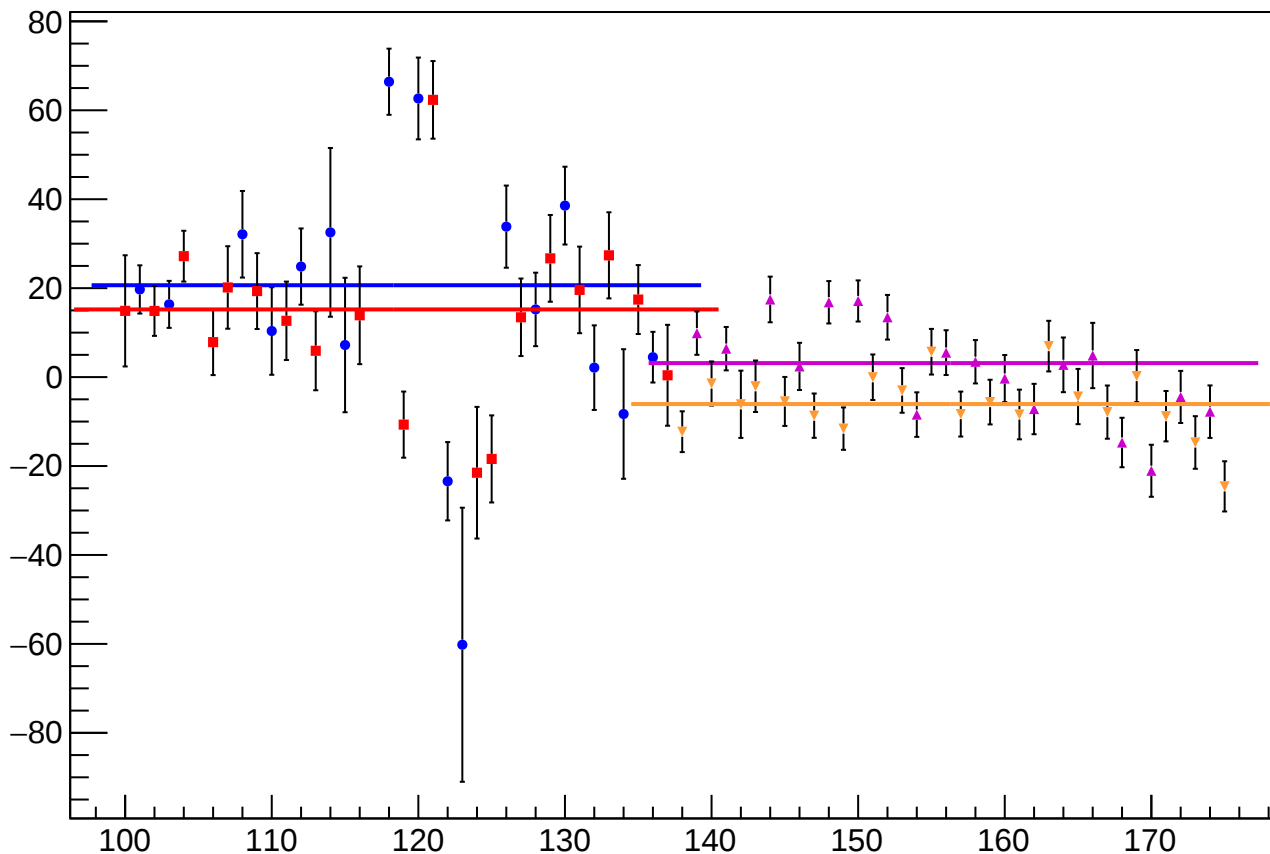
Right: 78047.137 $\pm$ 14.960 χ^2/NDF : 498141.9/35

In: 84062.818 $\pm$ 13.185 χ^2/NDF : 602327.5/34

Out: 84224.698 $\pm$ 12.753 χ^2/NDF : 648092.0/38

All: 84146.458 $\pm$ 9.167 χ^2/NDF : 1250497.3/77

diff_bpm0r05Y_mean vs Slug, Sign Corrected



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

Left Out: -6.061 ± 1.209 $\chi^2/\text{NDF}: 31.9/19$

Right Out: 15.216 ± 1.955 $\chi^2/\text{NDF}: 71.3/18$

Left In: 3.147 ± 1.249 $\chi^2/\text{NDF}: 73.7/17$

Left: -1.609 ± 0.869 $\chi^2/\text{NDF}: 133.6/37$

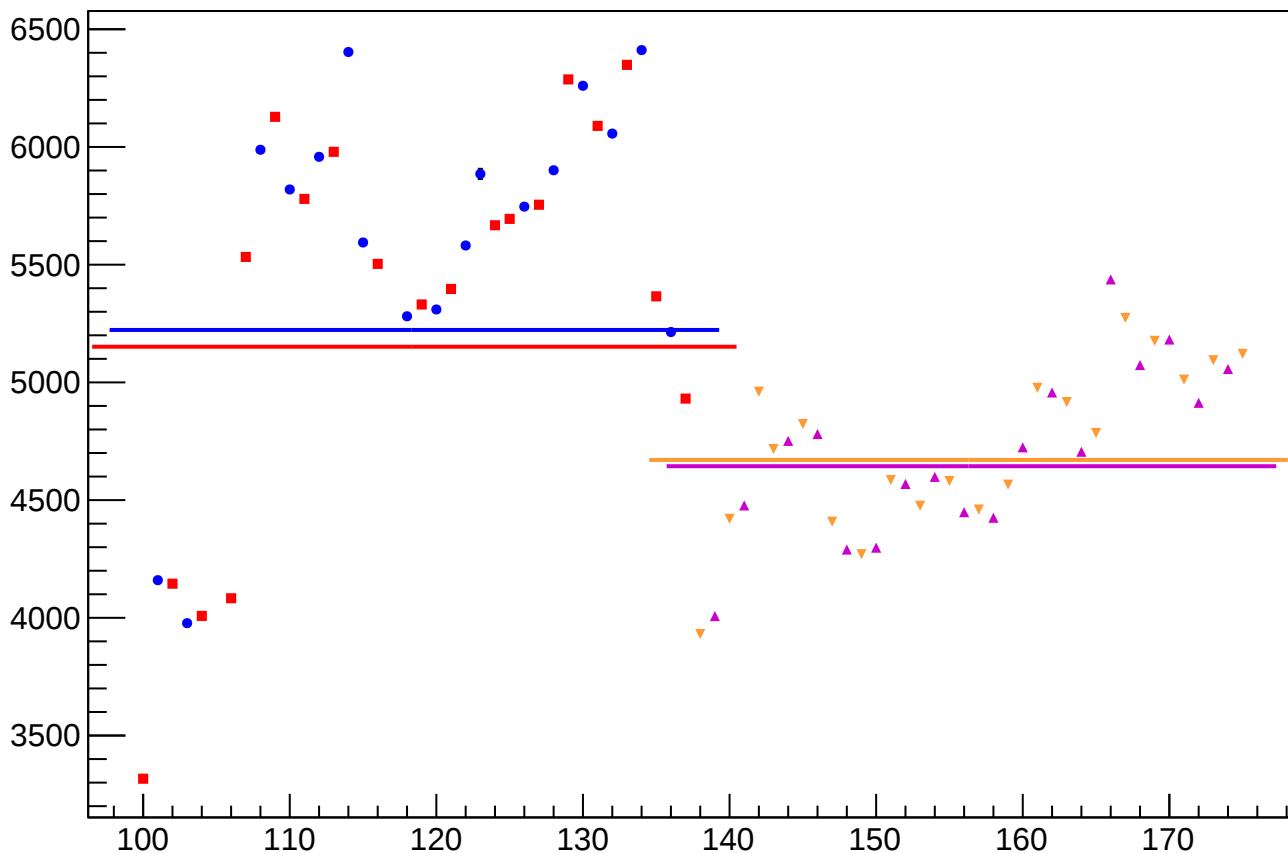
Right: 17.826 ± 1.410 $\chi^2/\text{NDF}: 192.8/35$

In: 7.938 ± 1.065 $\chi^2/\text{NDF}: 245.1/34$

Out: -0.175 ± 1.028 $\chi^2/\text{NDF}: 188.9/38$

All: 3.739 ± 0.740 $\chi^2/\text{NDF}: 464.1/73$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



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

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

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

Left In: 4643.938 ± 0.883 $\chi^2/\text{NDF}: 141587.2/17$

Left: 4657.777 ± 0.614 $\chi^2/\text{NDF}: 307792.6/37$

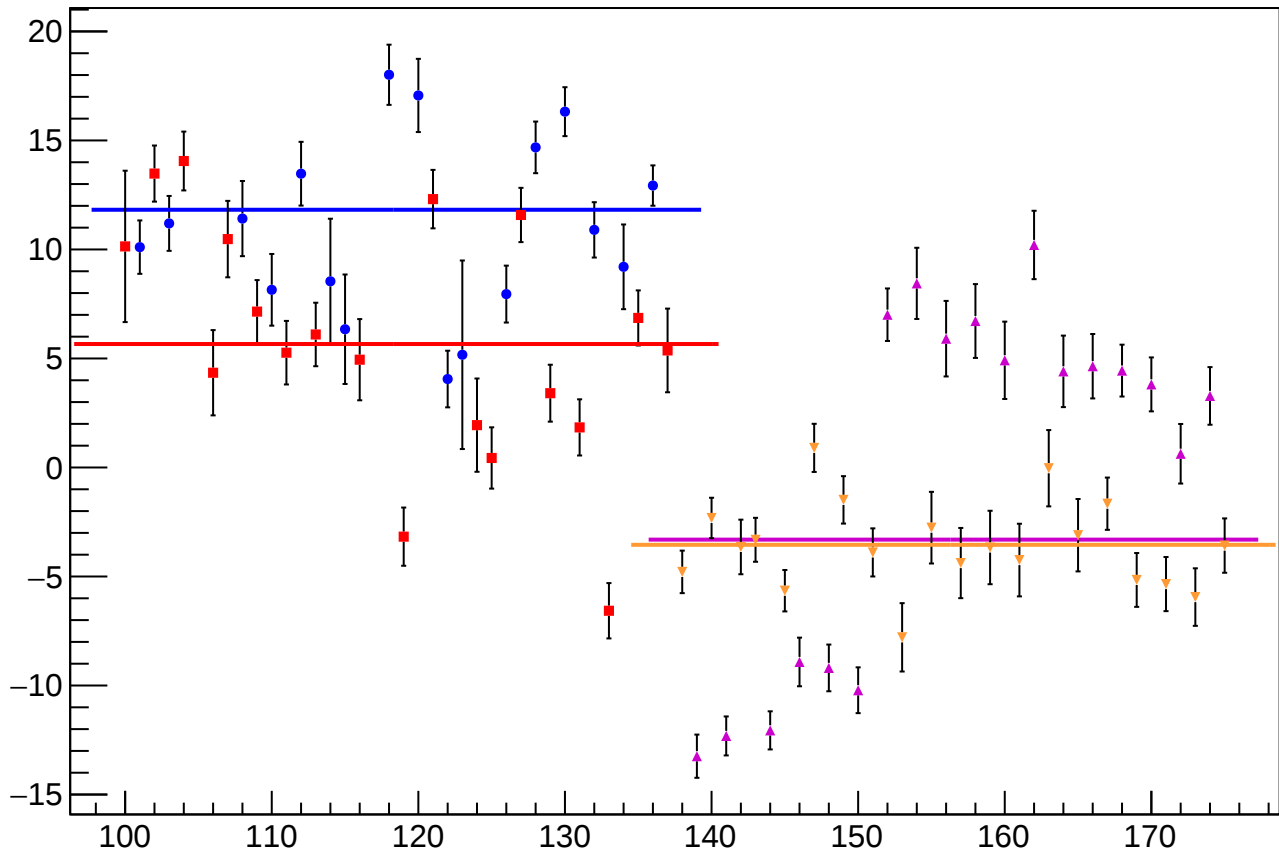
Right: 5185.701 ± 0.997 $\chi^2/\text{NDF}: 701457.6/35$

In: 4802.287 ± 0.753 $\chi^2/\text{NDF}: 571526.8/34$

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

All: 4803.040 ± 0.523 $\chi^2/\text{NDF}: 1212472.5/73$

diff_bpm2i01X_mean vs Slug, Sign Corrected



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

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

Right Out: 5.663 ± 0.338 $\chi^2/\text{NDF}: 300.1/18$

Left In: -3.309 ± 0.290 $\chi^2/\text{NDF}: 845.0/17$

Left: -3.434 ± 0.199 $\chi^2/\text{NDF}: 895.3/37$

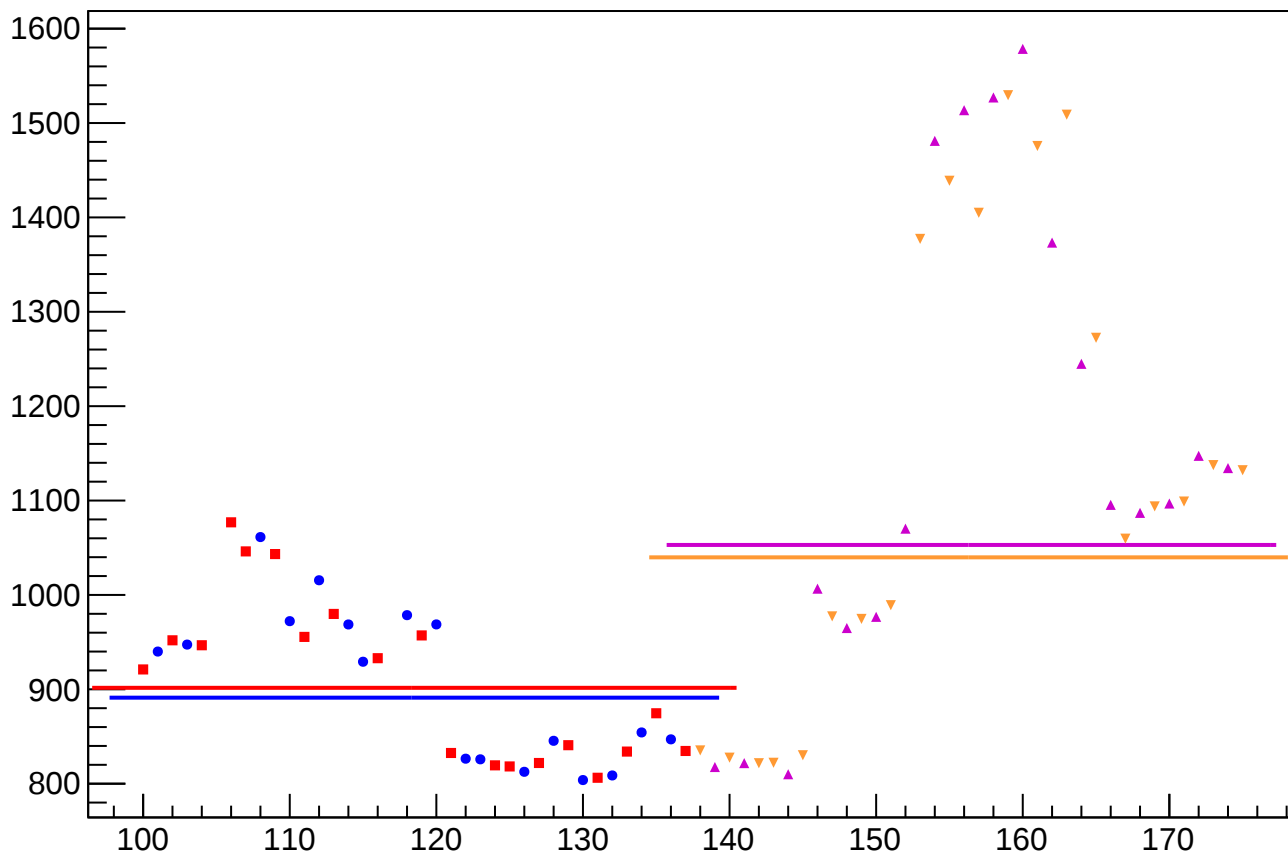
Right: 8.688 ± 0.241 $\chi^2/\text{NDF}: 579.7/35$

In: 2.954 ± 0.222 $\chi^2/\text{NDF}: 2092.4/34$

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

All: 1.482 ± 0.154 $\chi^2/\text{NDF}: 2973.5/73$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.149 $\pm$ 0.244 χ^2 /NDF: 101659.1/16

Left Out: 1039.824 $\pm$ 0.194 χ^2 /NDF:1295373.1/19

Right Out: 901.588 $\pm$ 0.239 χ^2 /NDF: 114590.8/18

Left In: 1052.959 $\pm$ 0.205 χ^2 /NDF:1174006.7/17

Left: 1046.055 $\pm$ 0.141 χ^2 /NDF: 2471543.6/37

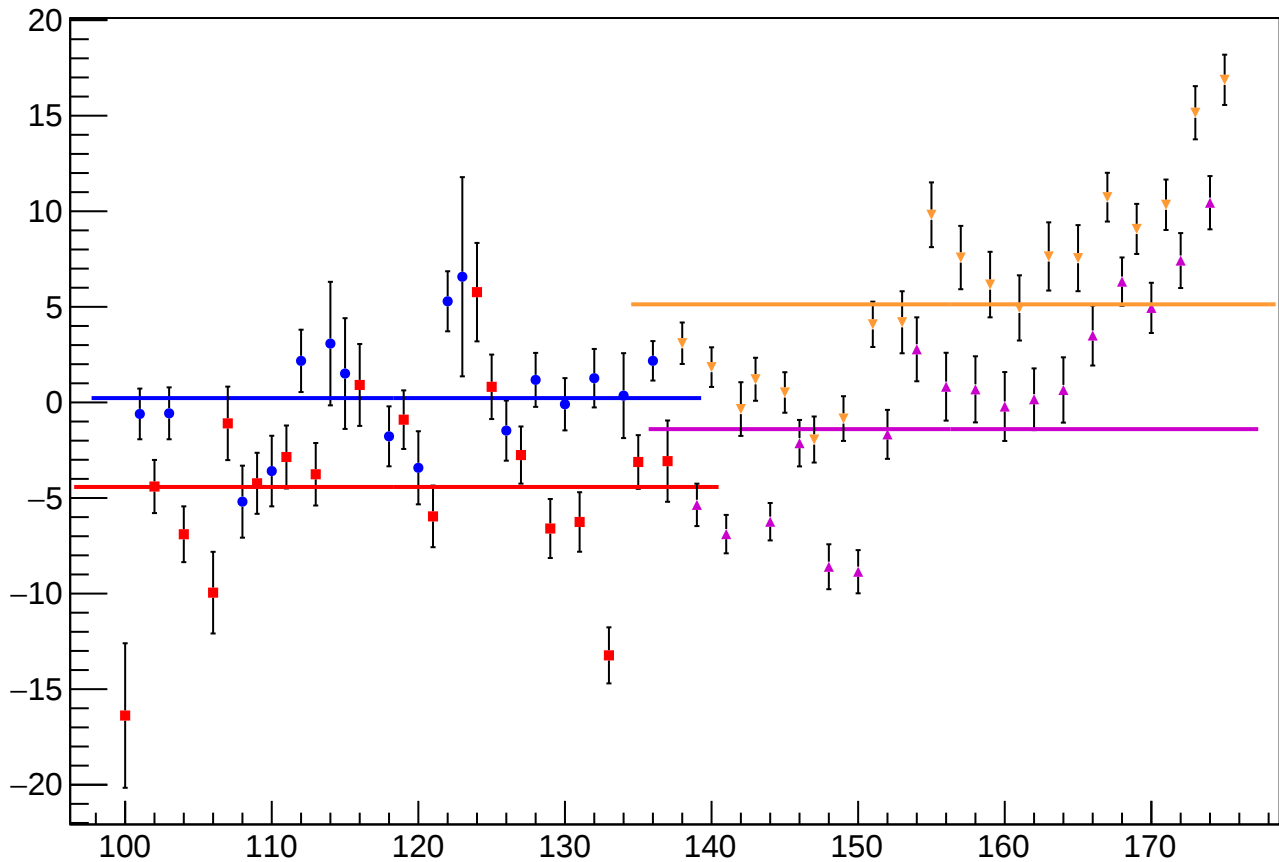
Right: 896.461 $\pm$ 0.171 χ^2 /NDF: 217184.3/35

In: 985.977 $\pm$ 0.157 χ^2 /NDF:1534250.8/34

Out: 984.846 $\pm$ 0.151 χ^2 /NDF:1610895.7/38

All: 985.390 $\pm$ 0.109 χ^2 /NDF: 3145173.5/73

diff_bpm2i01Y_mean vs Slug, Sign Corrected



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

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

Right Out: -4.423 ± 0.387 χ^2/NDF : 103.3/18

Left In: -1.397 ± 0.312 χ^2/NDF : 340.9/17

Left: 2.033 ± 0.215 χ^2/NDF : 882.6/37

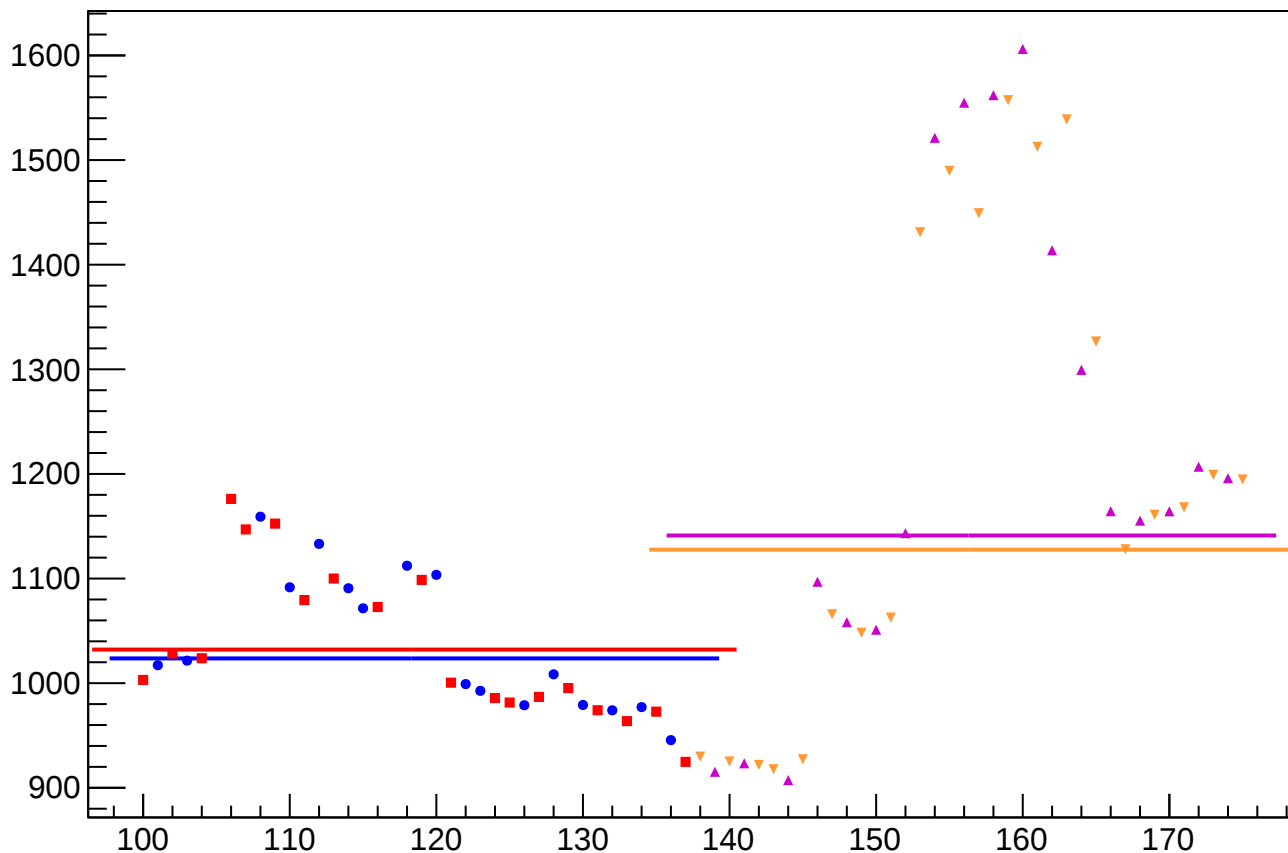
Right: -2.147 ± 0.276 χ^2/NDF : 212.6/35

In: -0.774 ± 0.245 χ^2/NDF : 389.8/34

Out: 1.597 ± 0.235 χ^2/NDF : 799.3/38

All: 0.459 ± 0.170 χ^2/NDF : 1237.9/73

diff_bpm2i01Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1032.107 $\pm$ 0.273 χ^2 /NDF: 59391.6/18

Left In: 1141.140 $\pm$ 0.220 χ^2 /NDF: 862380.1/17

Left: 1134.033 $\pm$ 0.152 χ^2 /NDF: 1822295.2/37

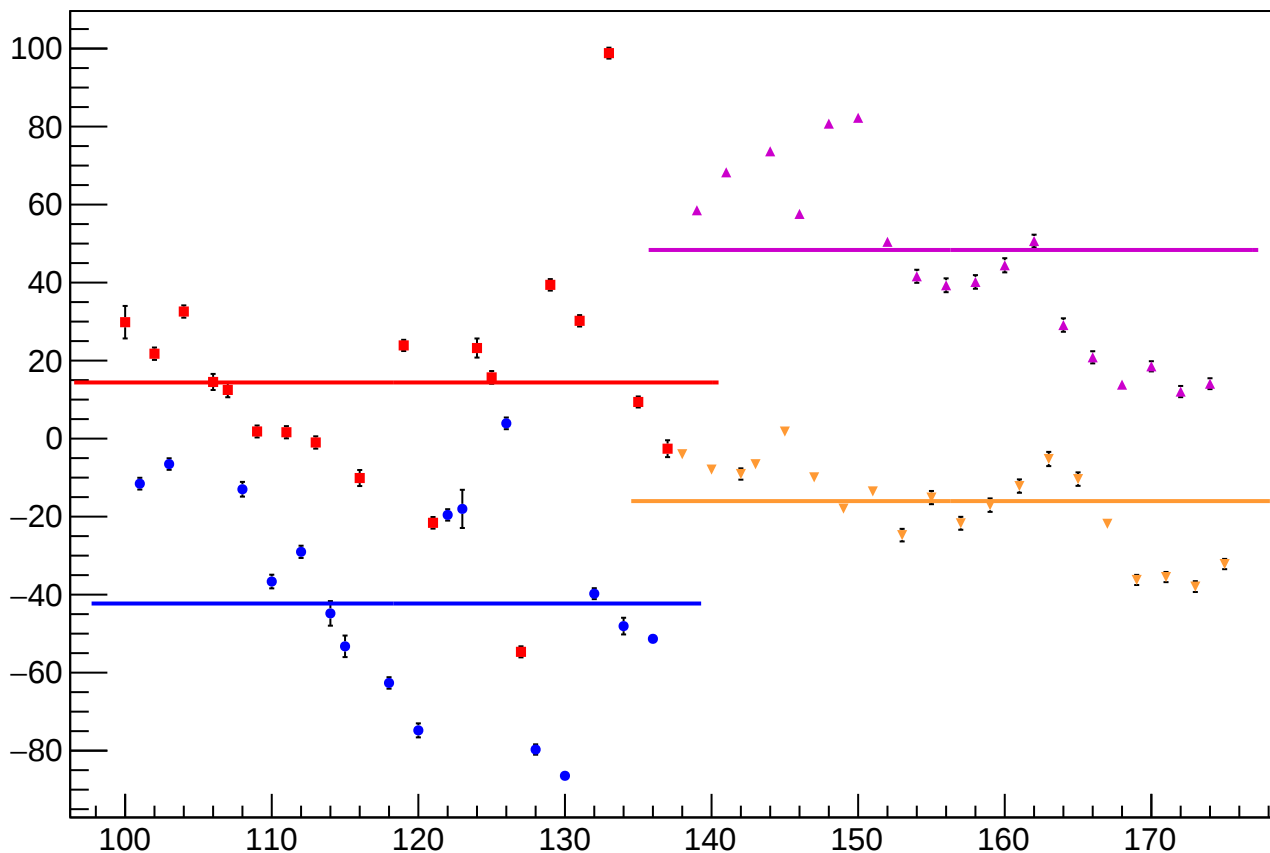
Right: 1027.970 $\pm$ 0.195 χ^2 /NDF: 112233.0/35

In: 1096.058 $\pm$ 0.173 χ^2 /NDF: 1023799.7/34

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

All: 1094.097 $\pm$ 0.120 χ^2 /NDF: 2118233.6/73

diff_bpm2i02X_mean vs Slug, Sign Corrected



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

Left Out: -16.020 $\pm$ 0.301 χ^2/NDF : 1540.4/19

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

Left In: 48.365 $\pm$ 0.318 χ^2/NDF : 5571.9/17

Left: 14.402 $\pm$ 0.218 χ^2/NDF : 28760.9/37

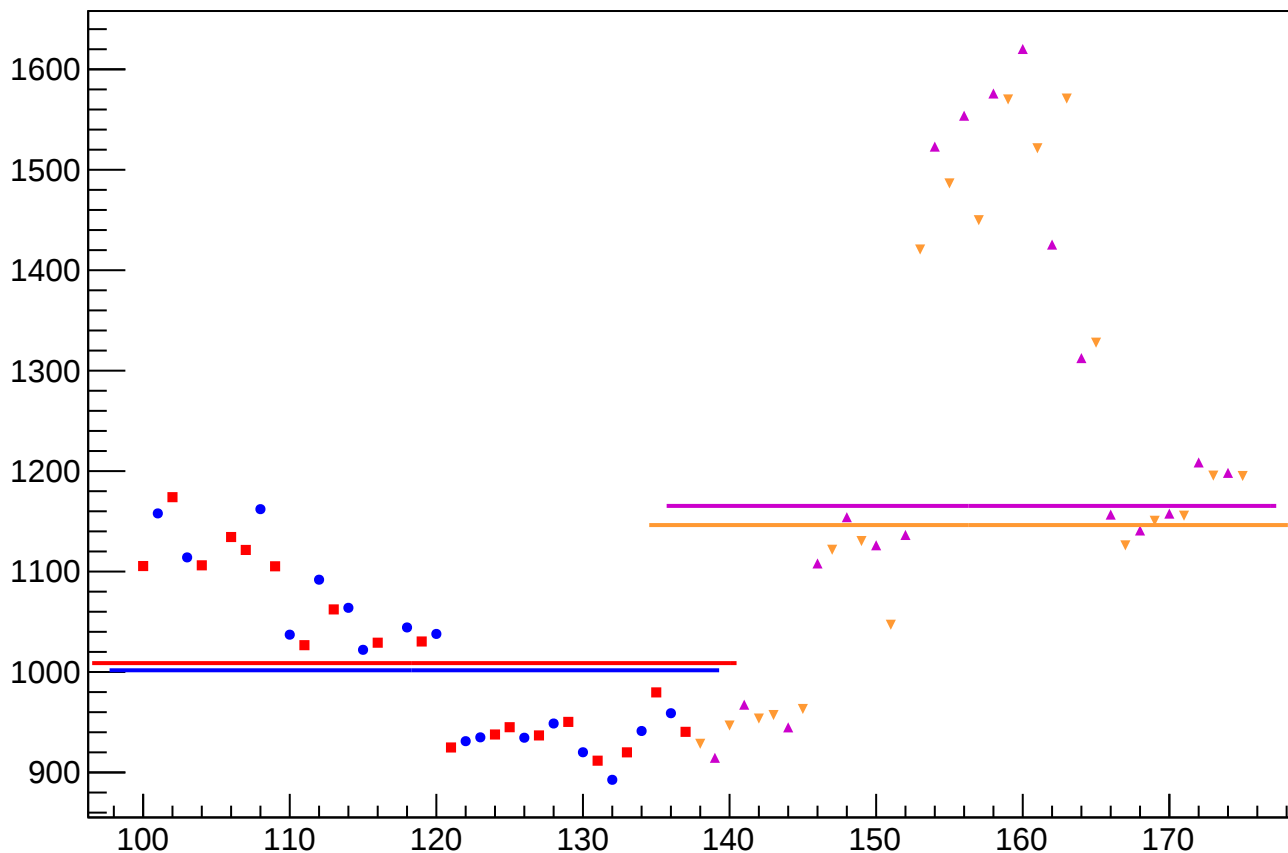
Right: -13.301 $\pm$ 0.271 χ^2/NDF : 23754.3/35

In: 11.869 $\pm$ 0.246 χ^2/NDF : 43448.9/34

Out: -4.246 $\pm$ 0.235 χ^2/NDF : 13167.9/38

All: 3.471 $\pm$ 0.170 χ^2/NDF : 58859.7/73

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.706 ± 0.274 $\chi^2/\text{NDF}: 95480.0/16$

Left Out: 1146.283 ± 0.213 $\chi^2/\text{NDF}: 867472.4/19$

Right Out: 1008.848 ± 0.268 $\chi^2/\text{NDF}: 95349.9/18$

Left In: 1165.360 ± 0.225 $\chi^2/\text{NDF}: 765989.3/17$

Left: 1155.297 ± 0.154 $\chi^2/\text{NDF}: 1637262.7/37$

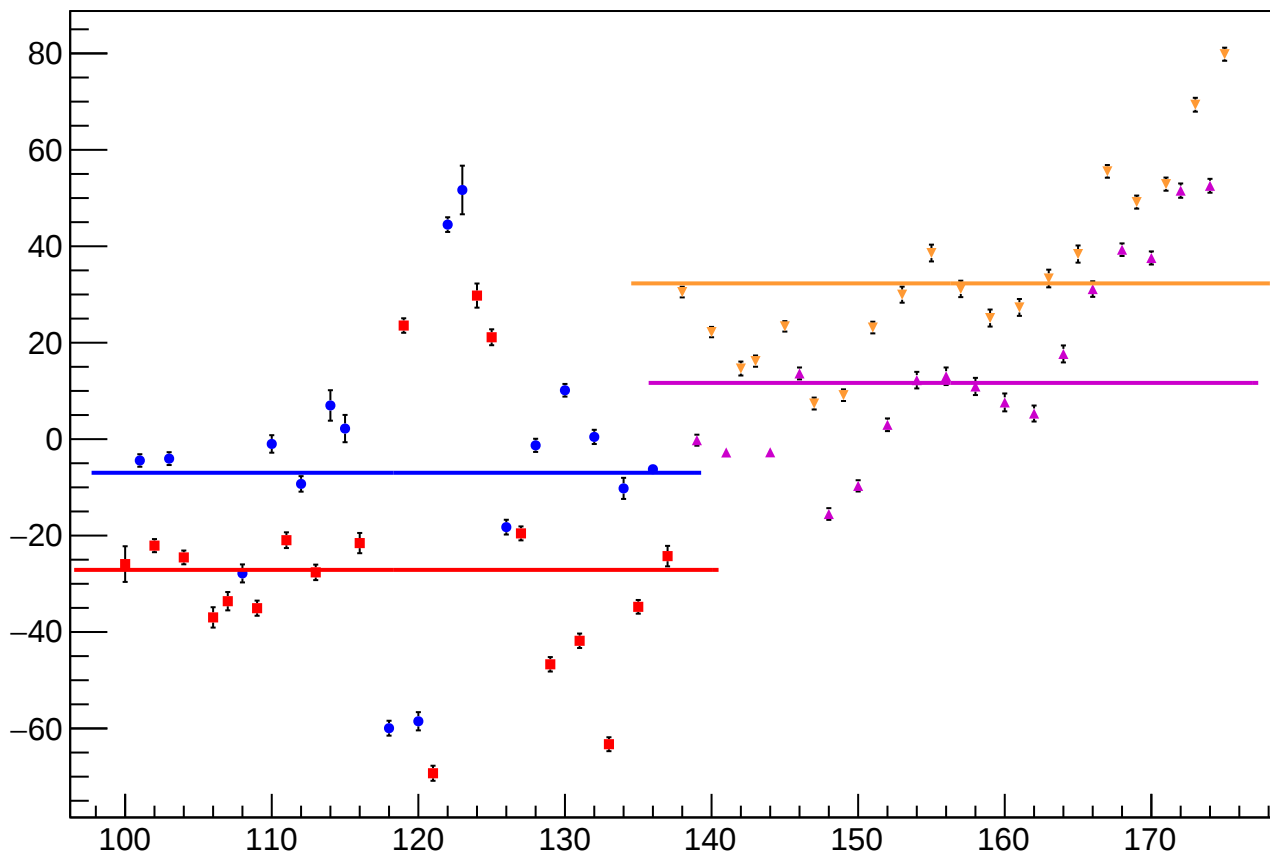
Right: 1005.358 ± 0.191 $\chi^2/\text{NDF}: 191177.9/35$

In: 1099.468 ± 0.174 $\chi^2/\text{NDF}: 1074982.5/34$

Out: 1093.077 ± 0.167 $\chi^2/\text{NDF}: 1124462.6/38$

All: 1096.138 ± 0.120 $\chi^2/\text{NDF}: 2200150.5/73$

diff_bpm2i02Y_mean vs Slug, Sign Corrected



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

Left Out: 32.302±/0.305 χ^2/NDF :3961.2/19

Right Out: -27.116±/0.380 χ^2/NDF : 4283.5/18

Left In: 11.664±/0.321 χ^2/NDF :3903.0/17

Left: 22.509±/0.221 χ^2/NDF : 10034.3/37

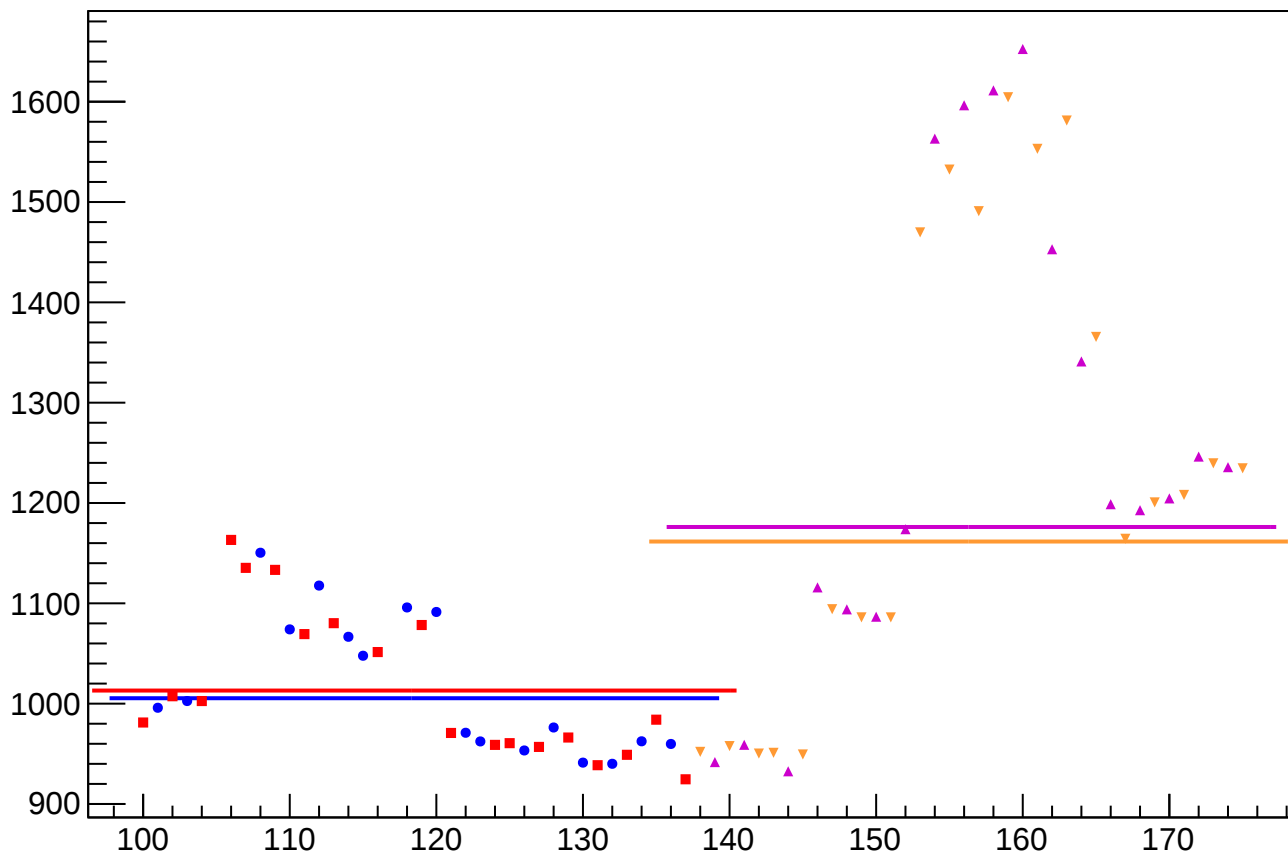
Right: -17.264±/0.271 χ^2/NDF : 9297.5/35

In: 4.086±/0.247 χ^2/NDF :8909.5/34

Out: 8.974±/0.238 χ^2/NDF :23127.0/38

All: 6.626±/0.171 χ^2/NDF : 32239.5/73

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.409 $\pm$ 0.274 χ^2 /NDF: 54586.0/16

Left Out: 1161.603 $\pm$ 0.216 χ^2 /NDF: 955601.9/19

Right Out: 1013.064 $\pm$ 0.268 χ^2 /NDF: 63265.7/18

Left In: 1176.096 $\pm$ 0.227 χ^2 /NDF: 855389.2/17

Left: 1168.480 $\pm$ 0.156 χ^2 /NDF: 1813131.4/37

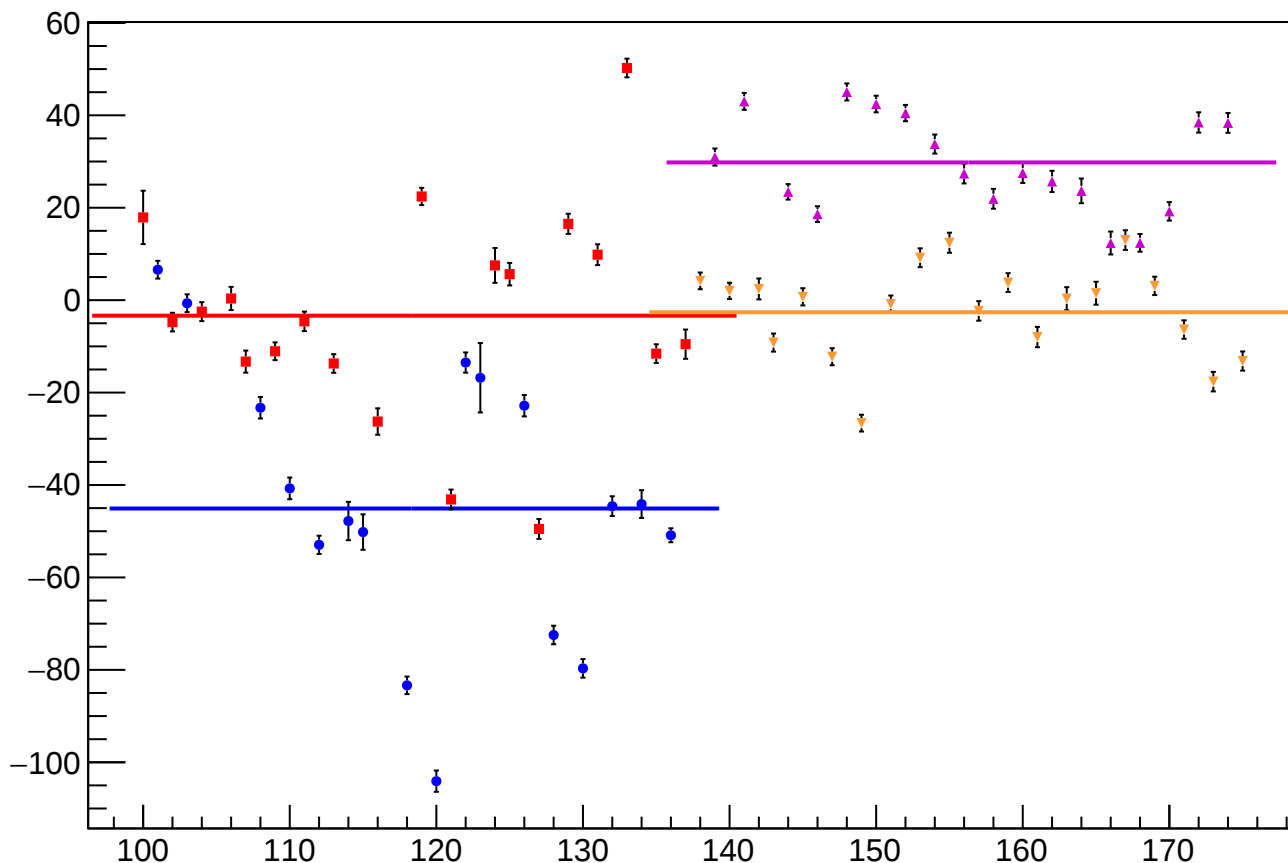
Right: 1009.320 $\pm$ 0.192 χ^2 /NDF: 118249.5/35

In: 1106.692 $\pm$ 0.175 χ^2 /NDF: 1139697.2/34

Out: 1103.286 $\pm$ 0.168 χ^2 /NDF: 1204884.7/38

All: 1104.922 $\pm$ 0.121 χ^2 /NDF: 2344778.9/73

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.081 ± 0.540 χ^2/NDF : 3238.1/16

Left Out: -2.611 ± 0.452 χ^2/NDF : 487.2/19

Right Out: -3.358 ± 0.522 χ^2/NDF : 2005.7/18

Left In: 29.800 ± 0.469 χ^2/NDF : 484.8/17

Left: 12.989 ± 0.326 χ^2/NDF : 3446.7/37

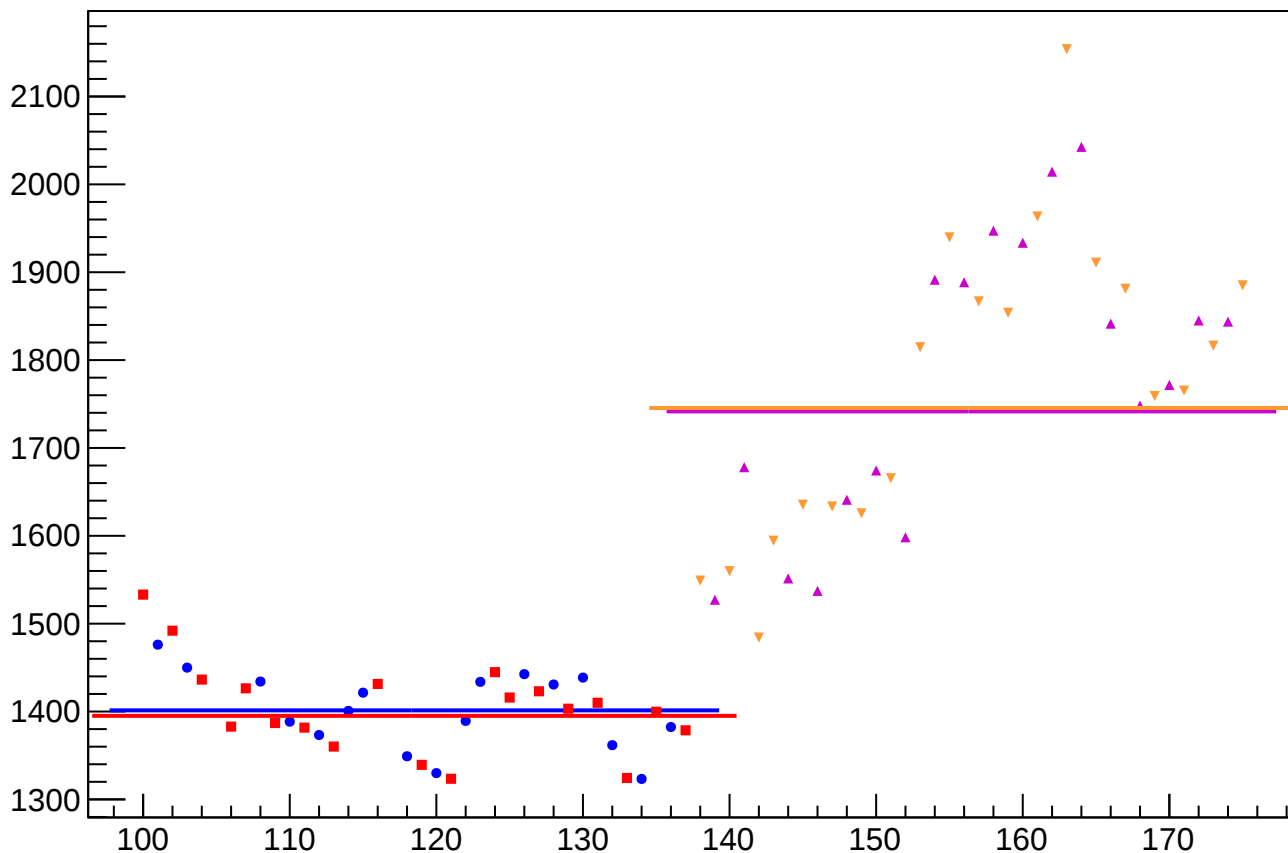
Right: -23.517 ± 0.375 χ^2/NDF : 8332.8/35

In: -2.436 ± 0.354 χ^2/NDF : 14686.1/34

Out: -2.931 ± 0.342 χ^2/NDF : 2494.1/38

All: -2.692 ± 0.246 χ^2/NDF : 17181.2/73

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.307 $\pm$ 0.382 χ^2 /NDF: 12852.1/16

Left Out: 1745.496 $\pm$ 0.320 χ^2 /NDF: 244054.1/19

Right Out: 1395.105 $\pm$ 0.369 χ^2 /NDF: 15520.0/18

Left In: 1741.624 $\pm$ 0.332 χ^2 /NDF: 226086.8/17

Left: 1743.632 $\pm$ 0.230 χ^2 /NDF: 470211.5/37

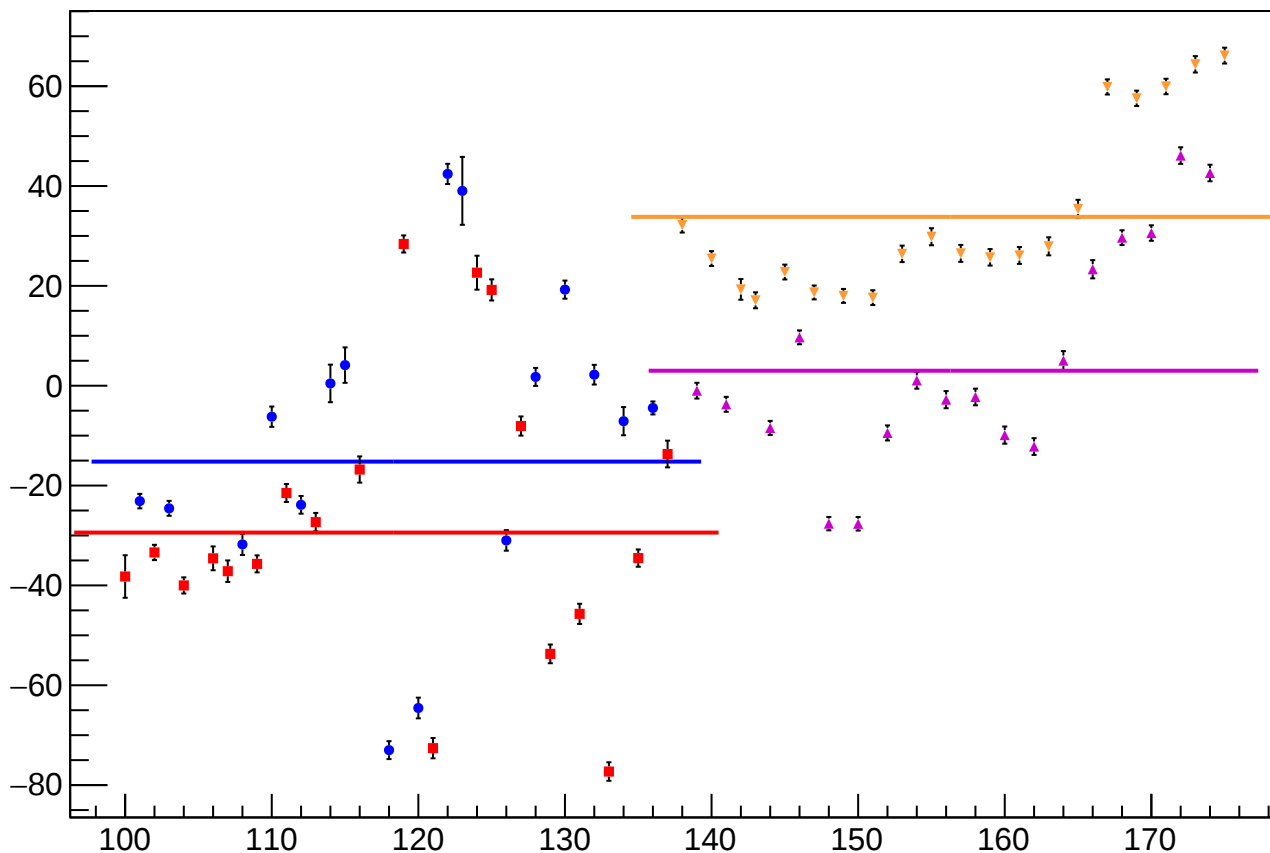
Right: 1398.102 $\pm$ 0.265 χ^2 /NDF: 28508.5/35

In: 1595.119 $\pm$ 0.250 χ^2 /NDF: 691832.9/34

Out: 1595.291 $\pm$ 0.242 χ^2 /NDF: 774786.8/38

All: 1595.208 $\pm$ 0.174 χ^2 /NDF: 1466620.0/73

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.202 ± 0.472 χ^2/NDF : 3362.5/16

Left Out: 33.820 ± 0.356 χ^2/NDF : 2289.5/19

Right Out: -29.418 ± 0.456 χ^2/NDF : 3544.8/18

Left In: 3.002 ± 0.369 χ^2/NDF : 3382.4/17

Left: 18.964 ± 0.256 χ^2/NDF : 9277.7/37

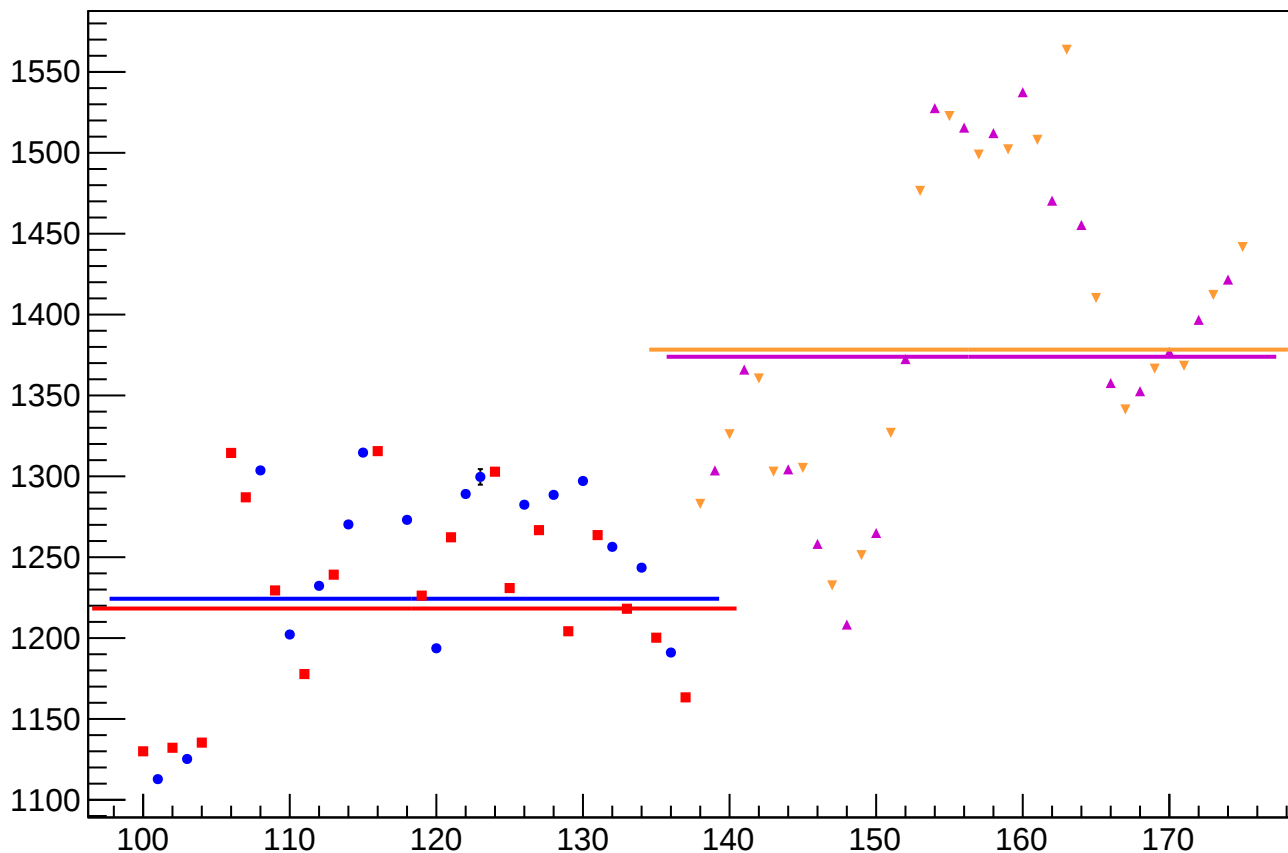
Right: -22.553 ± 0.328 χ^2/NDF : 7376.3/35

In: -3.910 ± 0.291 χ^2/NDF : 7667.1/34

Out: 9.857 ± 0.281 χ^2/NDF : 17768.7/38

All: 3.217 ± 0.202 χ^2/NDF : 26595.1/73

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.320+/-0.334 χ^2/NDF : 38778.2/16

Left Out: 1378.334+/-0.252 χ^2/NDF :142420.0/19

Right Out: 1218.276+/-0.323 χ^2/NDF : 27572.9/18

Left In: 1373.917+/-0.261 χ^2/NDF :141444.2/17

Left: 1376.205+/-0.181 χ^2/NDF : 284012.4/37

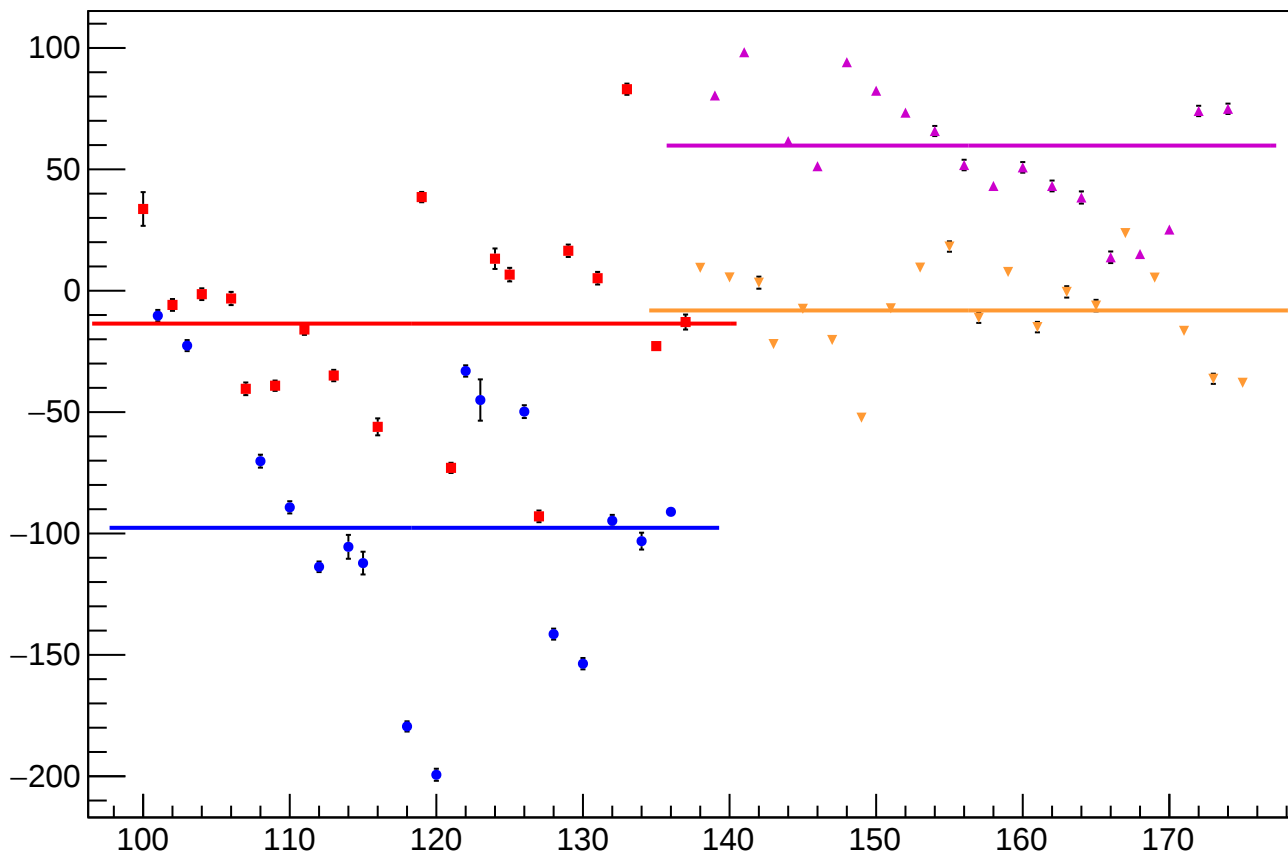
Right: 1221.195+/-0.232 χ^2/NDF : 66520.6/35

In: 1317.119+/-0.206 χ^2/NDF :304788.9/34

Out: 1317.684+/-0.199 χ^2/NDF :322904.4/38

All: 1317.412+/-0.143 χ^2/NDF : 627697.2/73

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.657 ± 0.601 χ^2/NDF : 7936.6/16

Left Out: -8.123 ± 0.449 χ^2/NDF : 1873.3/19

Right Out: -13.538 ± 0.579 χ^2/NDF : 5128.2/18

Left In: 59.795 ± 0.468 χ^2/NDF : 2728.0/17

Left: 24.426 ± 0.324 χ^2/NDF : 15559.9/37

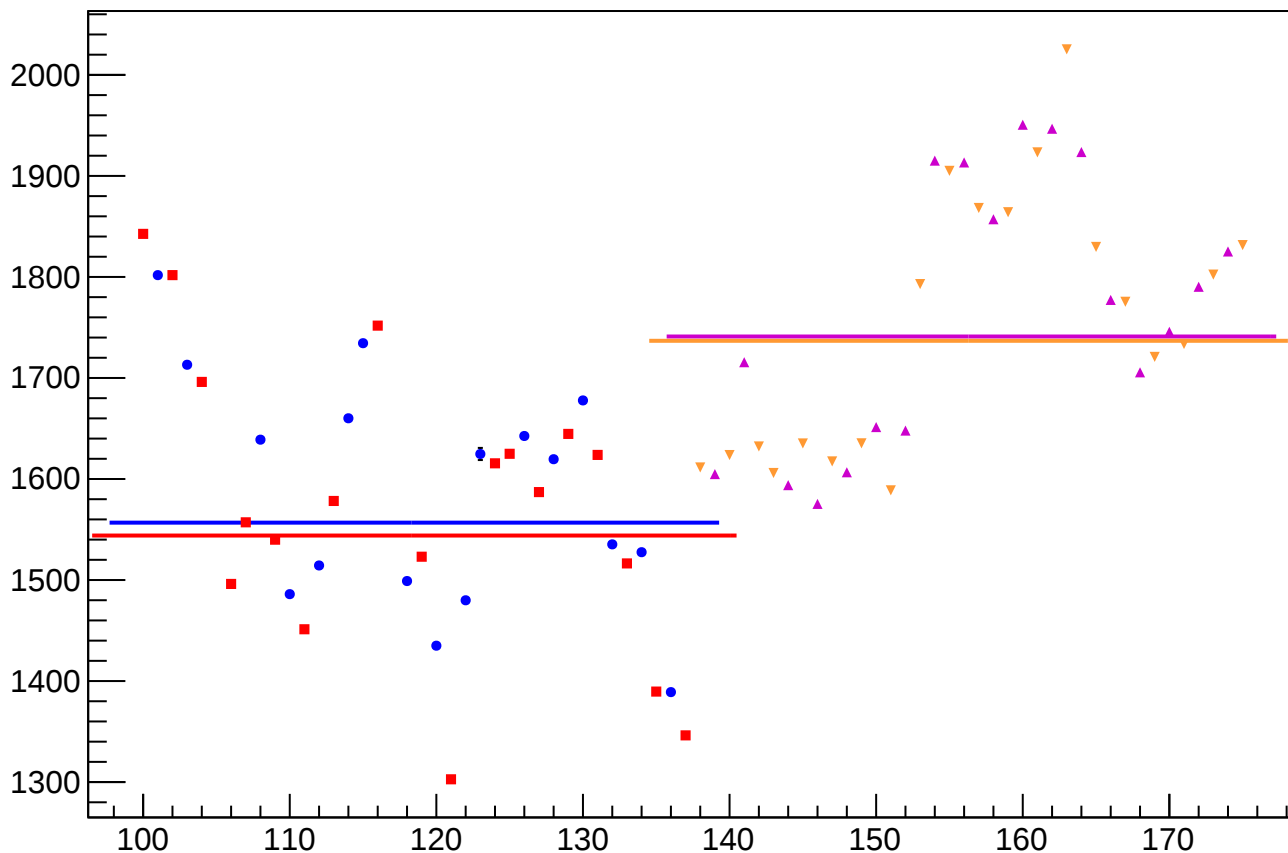
Right: -54.035 ± 0.417 χ^2/NDF : 23213.1/35

In: 0.369 ± 0.369 χ^2/NDF : 53350.1/34

Out: -10.156 ± 0.355 χ^2/NDF : 7056.0/38

All: -5.103 ± 0.256 χ^2/NDF : 60828.1/73

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.799 $\pm$ 0.425 χ^2 /NDF: 81549.2/16

Left Out: 1736.793 $\pm$ 0.318 χ^2 /NDF:148499.0/19

Right Out: 1544.034 $\pm$ 0.410 χ^2 /NDF: 100501.7/18

Left In: 1741.044 $\pm$ 0.331 χ^2 /NDF:149002.5/17

Left: 1738.831 $\pm$ 0.229 χ^2 /NDF: 297587.3/37

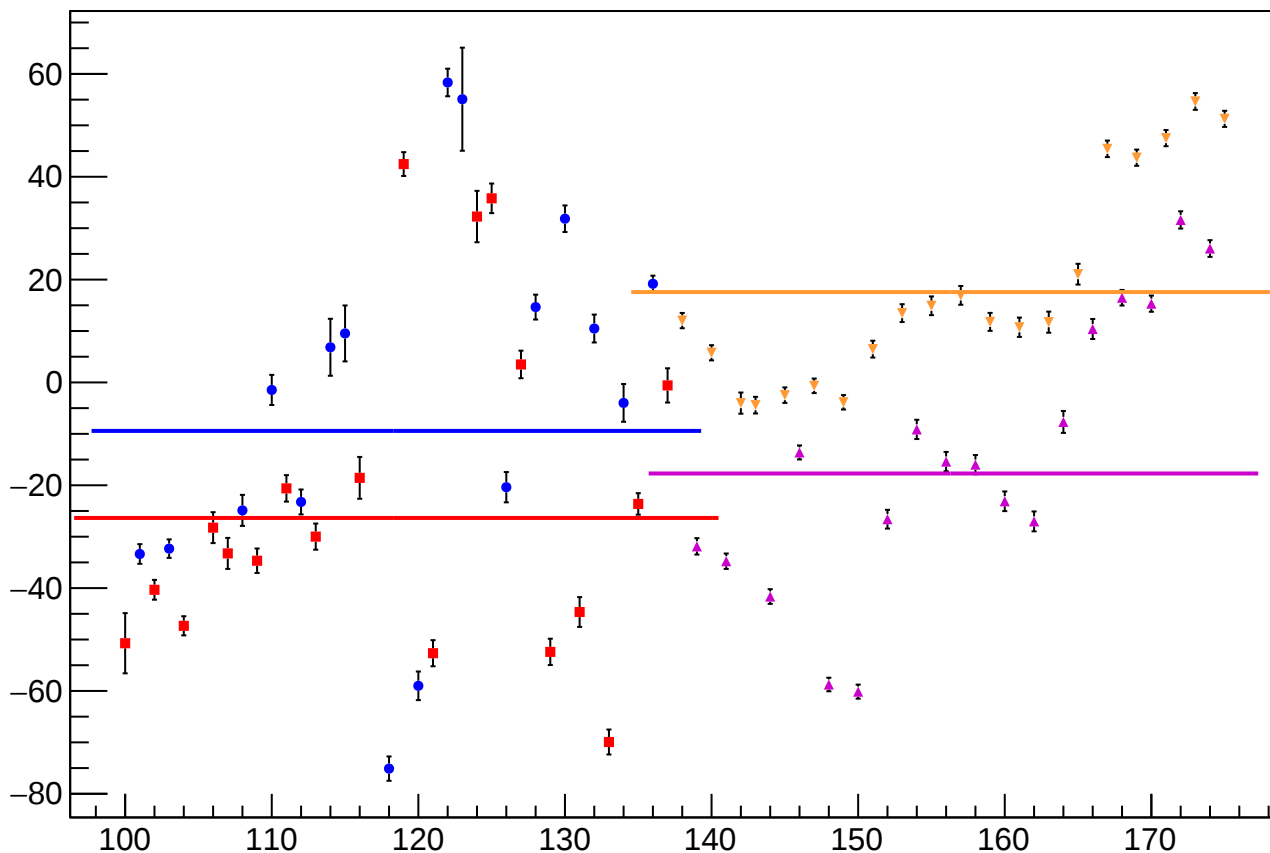
Right: 1550.179 $\pm$ 0.295 χ^2 /NDF: 182518.3/35

In: 1671.506 $\pm$ 0.261 χ^2 /NDF:347448.9/34

Out: 1664.435 $\pm$ 0.251 χ^2 /NDF:387280.5/38

All: 1667.829 $\pm$ 0.181 χ^2 /NDF: 735110.3/73

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.427 ± 0.626 $\chi^2/\text{NDF}: 2924.1/16$

Left Out: 17.580 ± 0.369 $\chi^2/\text{NDF}: 2956.8/19$

Right Out: -26.354 ± 0.603 $\chi^2/\text{NDF}: 2472.1/18$

Left In: -17.708 ± 0.386 $\chi^2/\text{NDF}: 5267.7/17$

Left: 0.724 ± 0.266 $\chi^2/\text{NDF}: 12598.8/37$

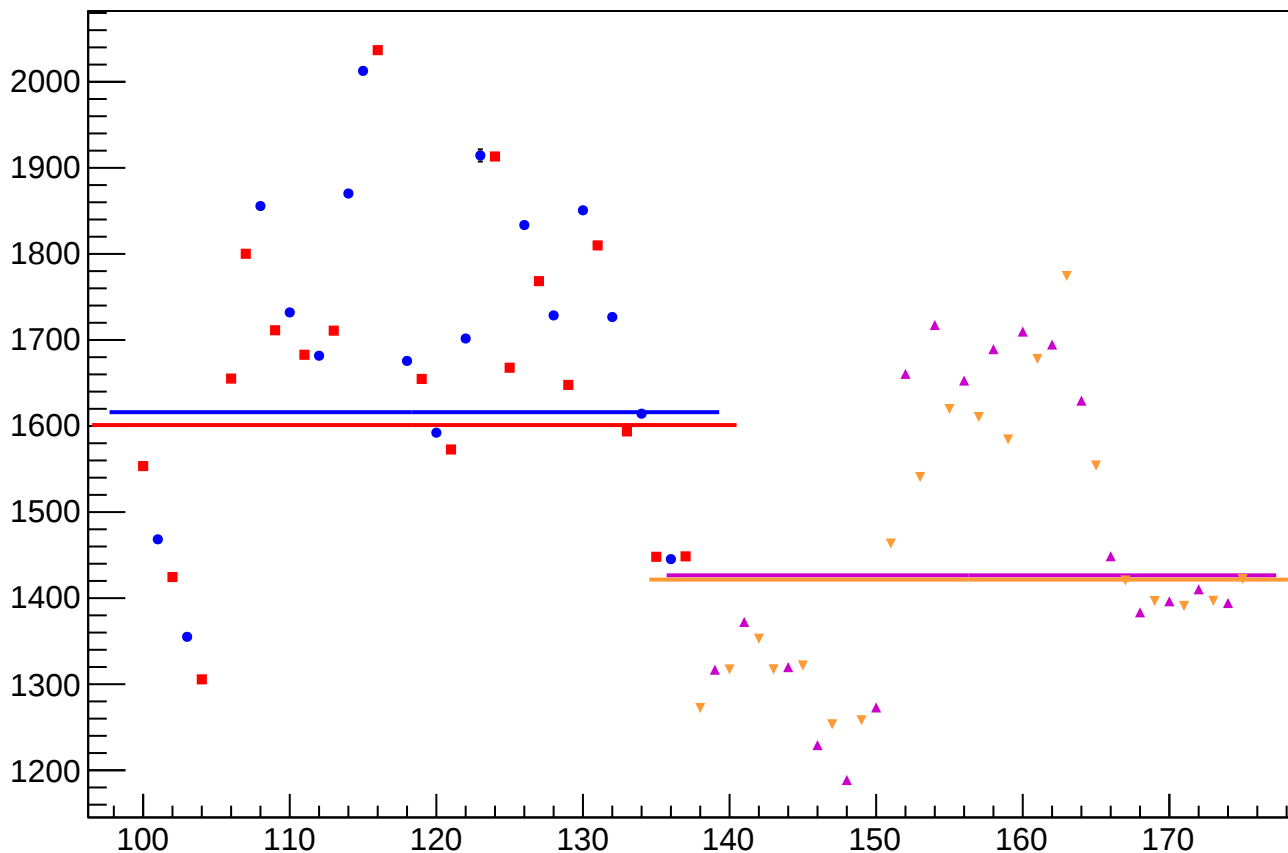
Right: -18.216 ± 0.434 $\chi^2/\text{NDF}: 5775.3/35$

In: -15.432 ± 0.328 $\chi^2/\text{NDF}: 8318.5/34$

Out: 5.616 ± 0.315 $\chi^2/\text{NDF}: 9294.4/38$

All: -4.456 ± 0.227 $\chi^2/\text{NDF}: 19755.4/73$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1616.094 $\pm$ 0.443 χ^2 /NDF: 149596.3/16

Left Out: 1421.553 $\pm$ 0.261 χ^2 /NDF: 284586.7/19

Right Out: 1601.134 $\pm$ 0.426 χ^2 /NDF: 153651.5/18

Left In: 1426.501 $\pm$ 0.273 χ^2 /NDF: 408976.5/17

Left: 1423.917 $\pm$ 0.188 χ^2 /NDF: 693735.3/37

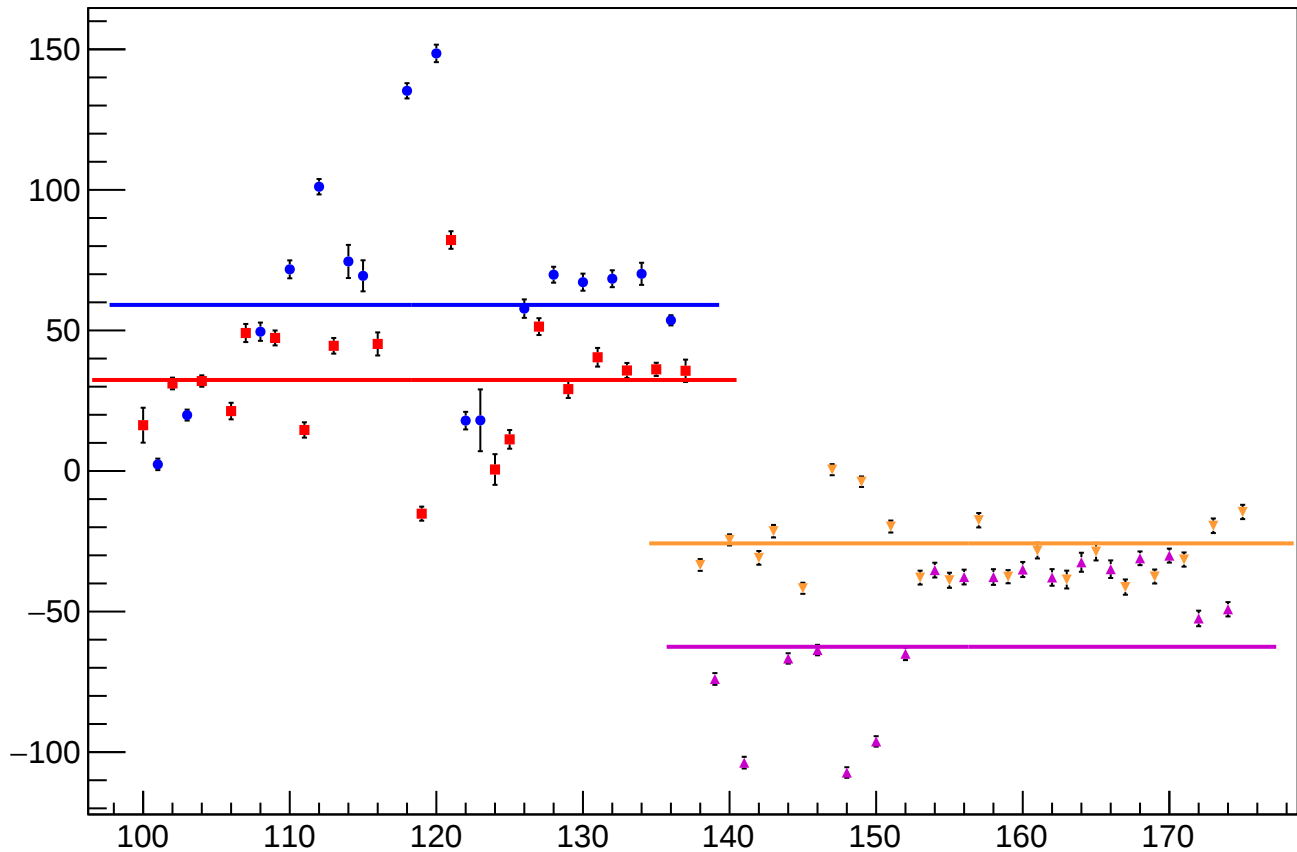
Right: 1608.326 $\pm$ 0.307 χ^2 /NDF: 303840.0/35

In: 1478.595 $\pm$ 0.232 χ^2 /NDF: 691425.9/34

Out: 1470.455 $\pm$ 0.222 χ^2 /NDF: 567408.6/38

All: 1474.350 $\pm$ 0.161 χ^2 /NDF: 1259475.3/73

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.081 ± 0.699 χ^2/NDF : 3293.6/16

Left Out: -25.749 ± 0.528 χ^2/NDF : 597.5/19

Right Out: 32.382 ± 0.666 χ^2/NDF : 891.5/18

Left In: -62.532 ± 0.552 χ^2/NDF : 2306.6/17

Left: -43.305 ± 0.381 χ^2/NDF : 5223.9/37

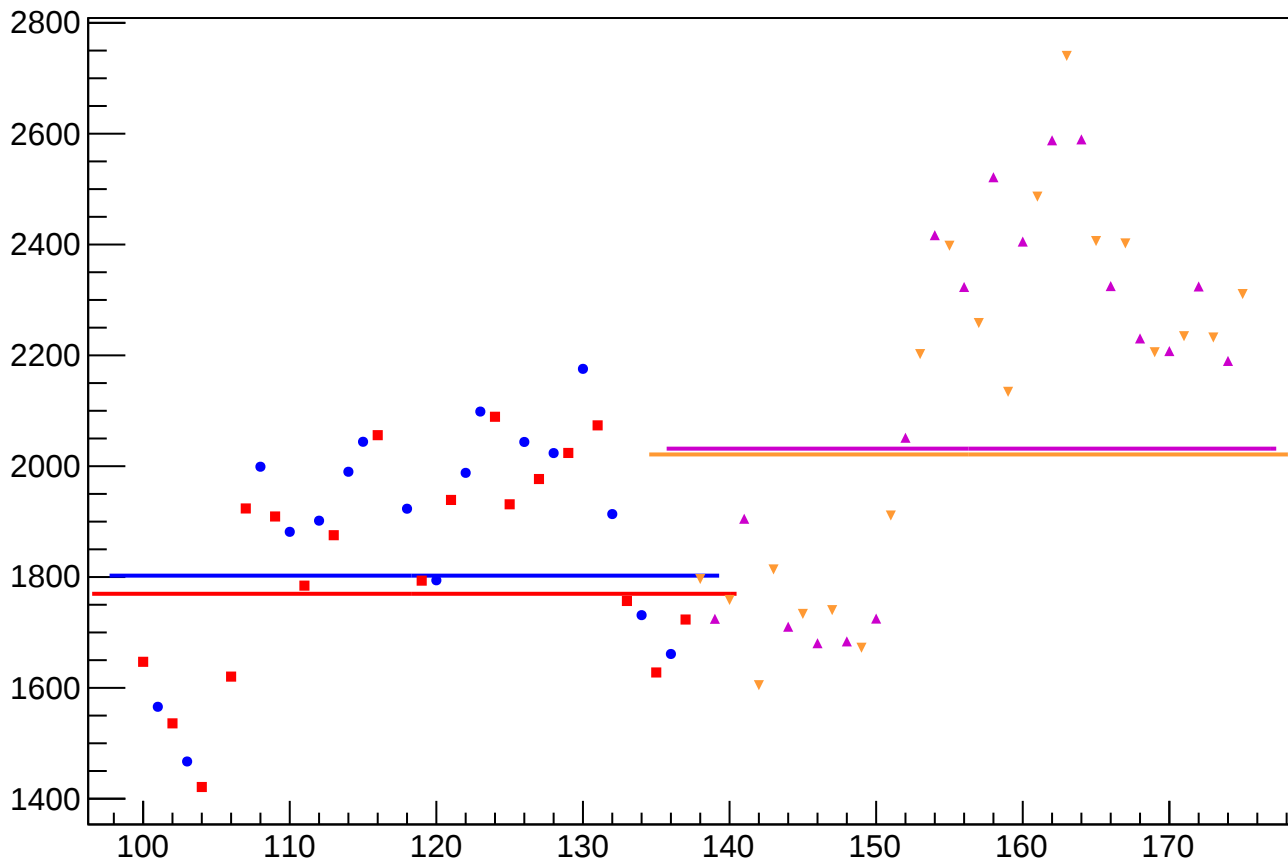
Right: 45.088 ± 0.483 χ^2/NDF : 4948.8/35

In: -15.845 ± 0.433 χ^2/NDF : 24224.8/34

Out: -3.355 ± 0.414 χ^2/NDF : 6165.8/38

All: -9.309 ± 0.299 χ^2/NDF : 30825.2/73

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1802.524 $\pm$ 0.495 χ^2 /NDF: 184069.0/16

Left Out: 2021.201 $\pm$ 0.373 χ^2 /NDF: 655644.5/19

Right Out: 1769.772 $\pm$ 0.471 χ^2 /NDF: 177893.4/18

Left In: 2031.677 $\pm$ 0.390 χ^2 /NDF: 668652.1/17

Left: 2026.201 $\pm$ 0.270 χ^2 /NDF: 1324673.0/37

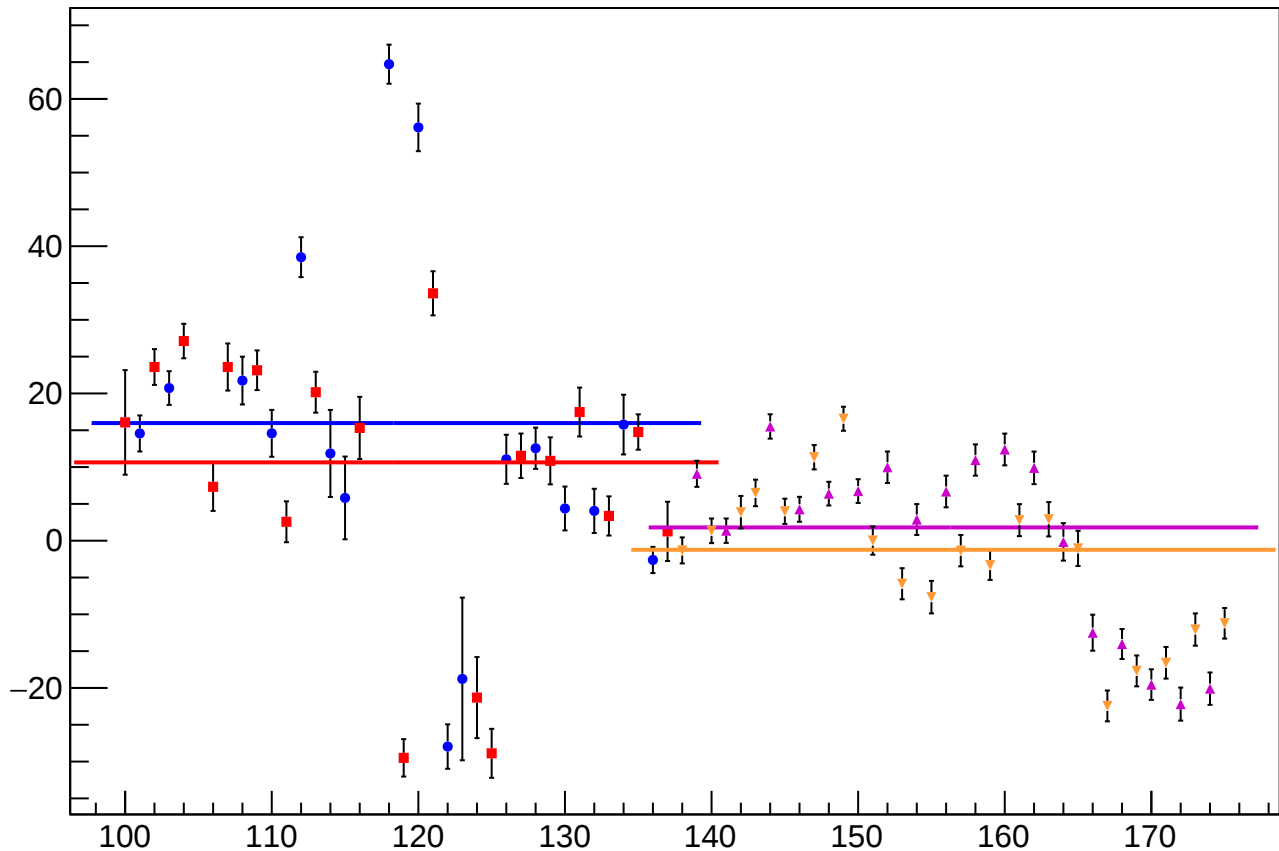
Right: 1785.358 $\pm$ 0.341 χ^2 /NDF: 364260.7/35

In: 1943.706 $\pm$ 0.306 χ^2 /NDF: 984974.8/34

Out: 1924.340 $\pm$ 0.293 χ^2 /NDF: 1008515.5/38

All: 1933.572 $\pm$ 0.212 χ^2 /NDF: 1995580.1/73

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 15.976 ± 0.722 $\chi^2/\text{NDF}: 938.4/16$

Left Out: -1.235 ± 0.442 $\chi^2/\text{NDF}: 495.4/19$

Right Out: 10.638 ± 0.693 $\chi^2/\text{NDF}: 642.1/18$

Left In: 1.801 ± 0.463 $\chi^2/\text{NDF}: 595.3/17$

Left: 0.213 ± 0.320 $\chi^2/\text{NDF}: 1113.2/37$

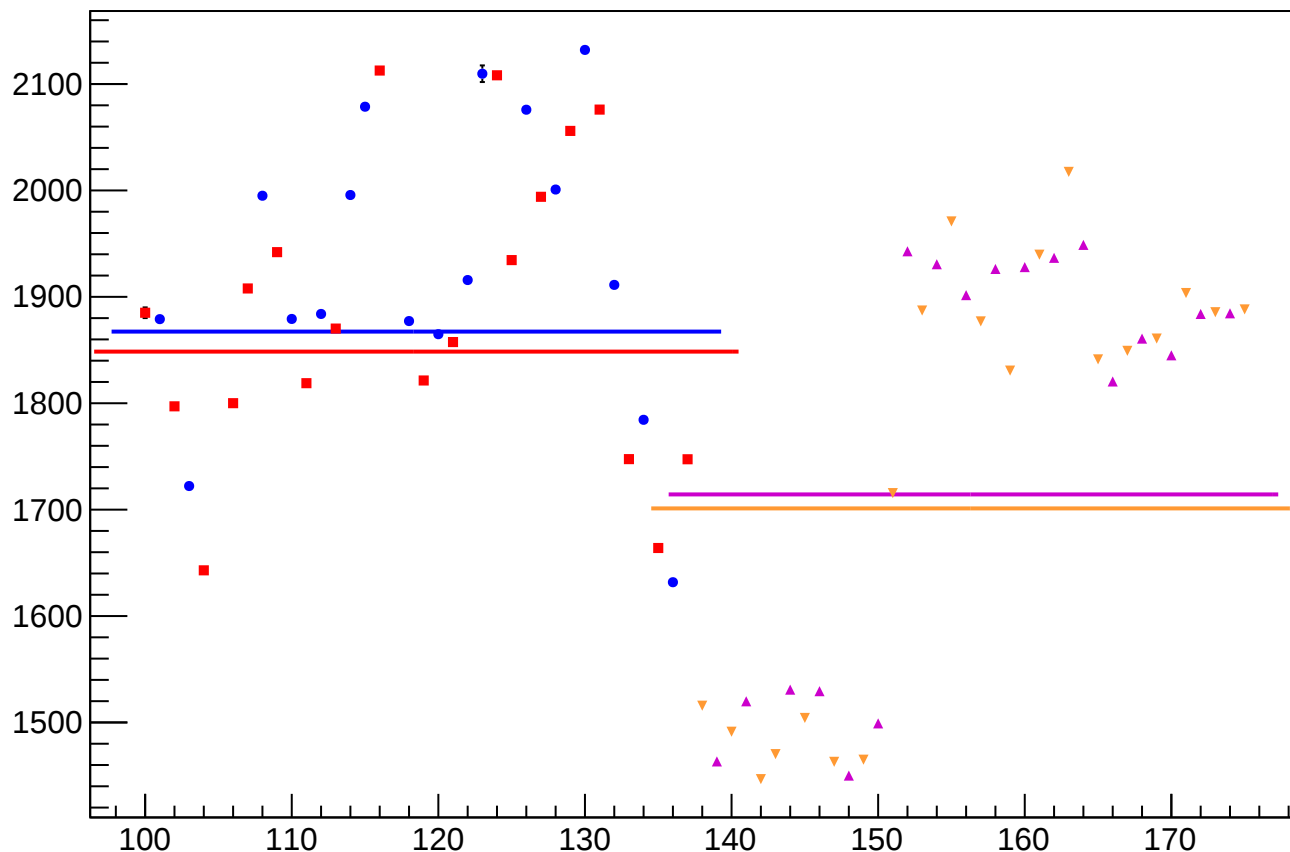
Right: 13.200 ± 0.500 $\chi^2/\text{NDF}: 1608.9/35$

In: 5.933 ± 0.390 $\chi^2/\text{NDF}: 1807.0/34$

Out: 2.196 ± 0.373 $\chi^2/\text{NDF}: 1346.0/38$

All: 3.982 ± 0.269 $\chi^2/\text{NDF}: 3201.1/73$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1867.343 $\pm$ 0.510 χ^2 /NDF: 80926.4/16

Left Out: 1701.163 $\pm$ 0.313 χ^2 /NDF: 427255.2/19

Right Out: 1848.532 $\pm$ 0.490 χ^2 /NDF: 72527.3/18

Left In: 1714.315 $\pm$ 0.327 χ^2 /NDF: 386808.4/17

Left: 1707.436 $\pm$ 0.226 χ^2 /NDF: 814908.1/37

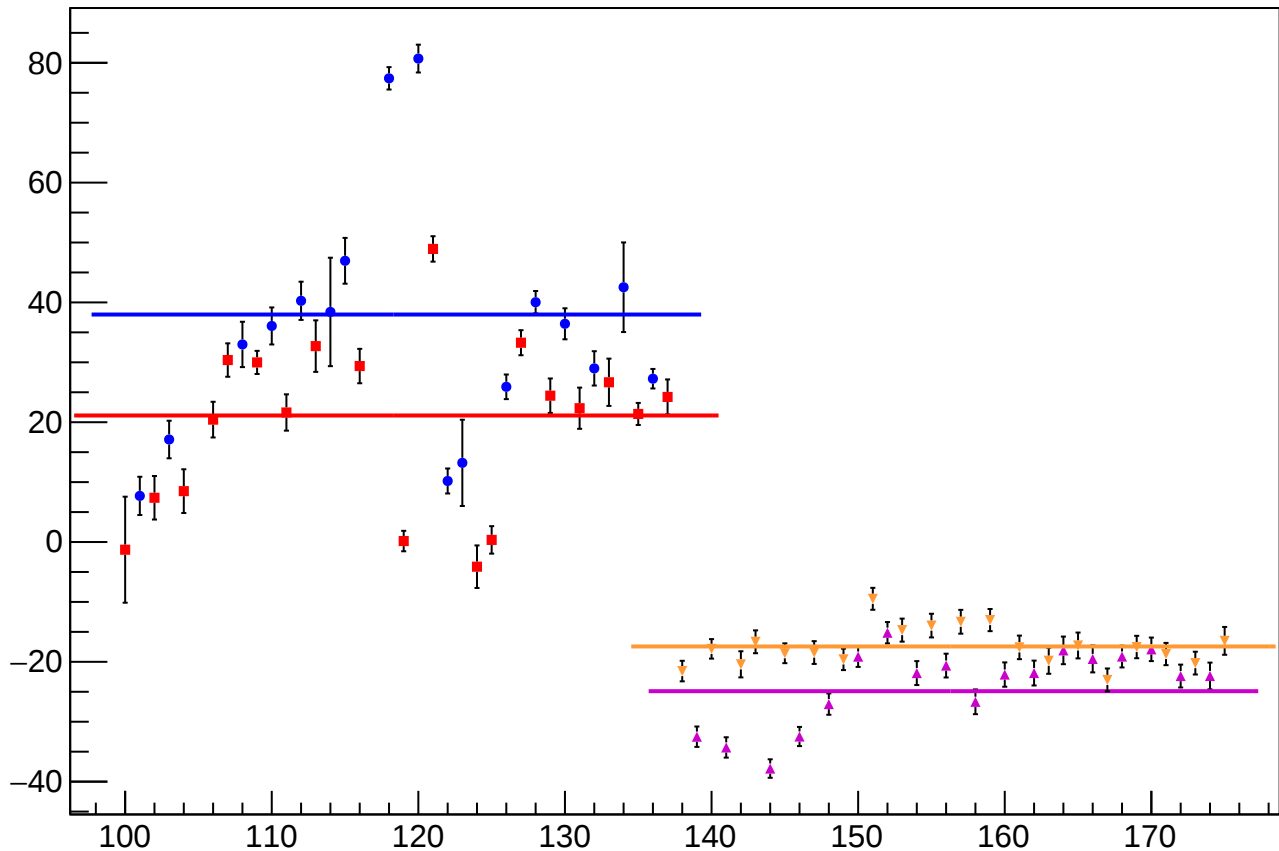
Right: 1857.561 $\pm$ 0.354 χ^2 /NDF: 154160.4/35

In: 1758.924 $\pm$ 0.276 χ^2 /NDF: 531455.9/34

Out: 1743.750 $\pm$ 0.264 χ^2 /NDF: 564024.6/38

All: 1751.001 $\pm$ 0.190 χ^2 /NDF: 1097064.4/73

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.979 ± 0.637 $\chi^2/\text{NDF}: 1204.3/16$

Left Out: -17.437 ± 0.426 $\chi^2/\text{NDF}: 56.5/19$

Right Out: 21.124 ± 0.608 $\chi^2/\text{NDF}: 573.6/18$

Left In: -24.899 ± 0.443 $\chi^2/\text{NDF}: 237.4/17$

Left: -21.022 ± 0.307 $\chi^2/\text{NDF}: 441.7/37$

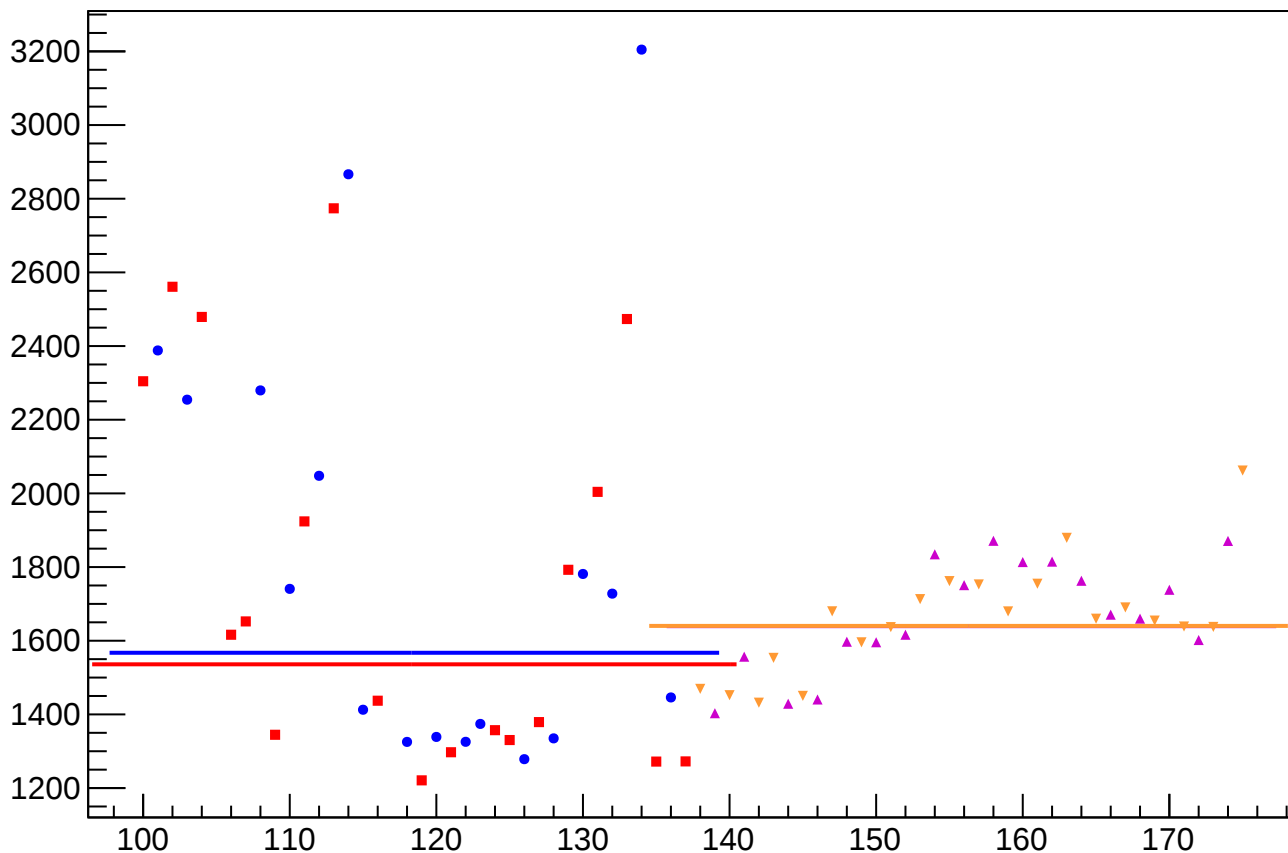
Right: 29.159 ± 0.440 $\chi^2/\text{NDF}: 2143.8/35$

In: -4.447 ± 0.364 $\chi^2/\text{NDF}: 8008.5/34$

Out: -4.767 ± 0.349 $\chi^2/\text{NDF}: 3328.0/38$

All: -4.614 ± 0.252 $\chi^2/\text{NDF}: 11336.9/73$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1567.328 $\pm$ 0.451 χ^2 /NDF: 673450.6/16

Left Out: 1640.261 $\pm$ 0.301 χ^2 /NDF:213638.4/19

Right Out: 1535.967 $\pm$ 0.430 χ^2 /NDF: 882098.2/18

Left In: 1639.541 $\pm$ 0.313 χ^2 /NDF:227358.8/17

Left: 1639.915 $\pm$ 0.217 χ^2 /NDF: 440999.9/37

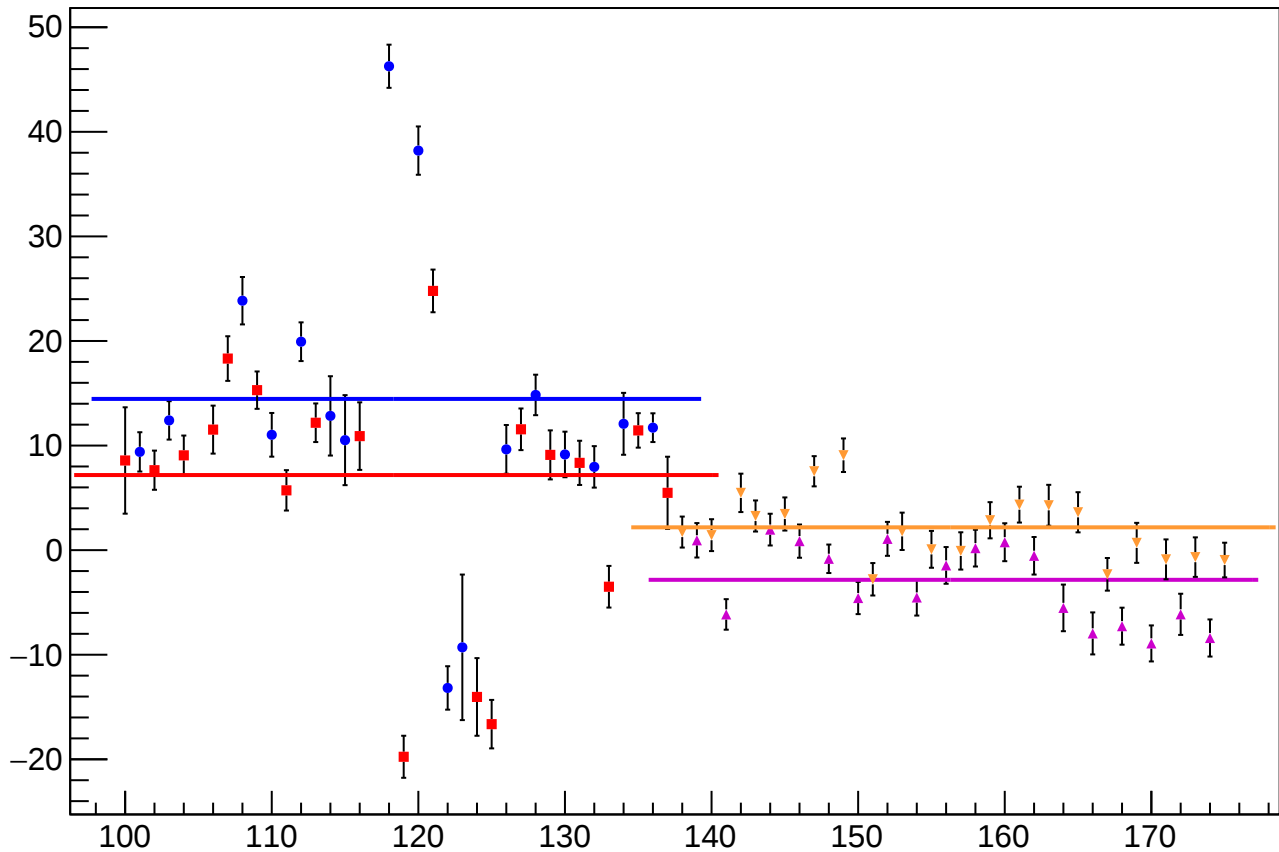
Right: 1550.918 $\pm$ 0.311 χ^2 /NDF: 1558082.7/35

In: 1616.052 $\pm$ 0.257 χ^2 /NDF:918132.1/34

Out: 1605.994 $\pm$ 0.247 χ^2 /NDF:1135205.8/38

All: 1610.814 $\pm$ 0.178 χ^2 /NDF: 2054135.3/73

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.461 $\pm$ 0.523 χ^2 /NDF: 595.9/16

Left Out: 2.181 $\pm$ 0.376 χ^2 /NDF: 71.1/19

Right Out: 7.181 $\pm$ 0.494 χ^2 /NDF: 495.7/18

Left In: -2.837 $\pm$ 0.399 χ^2 /NDF: 84.6/17

Left: -0.180 $\pm$ 0.274 χ^2 /NDF: 239.5/37

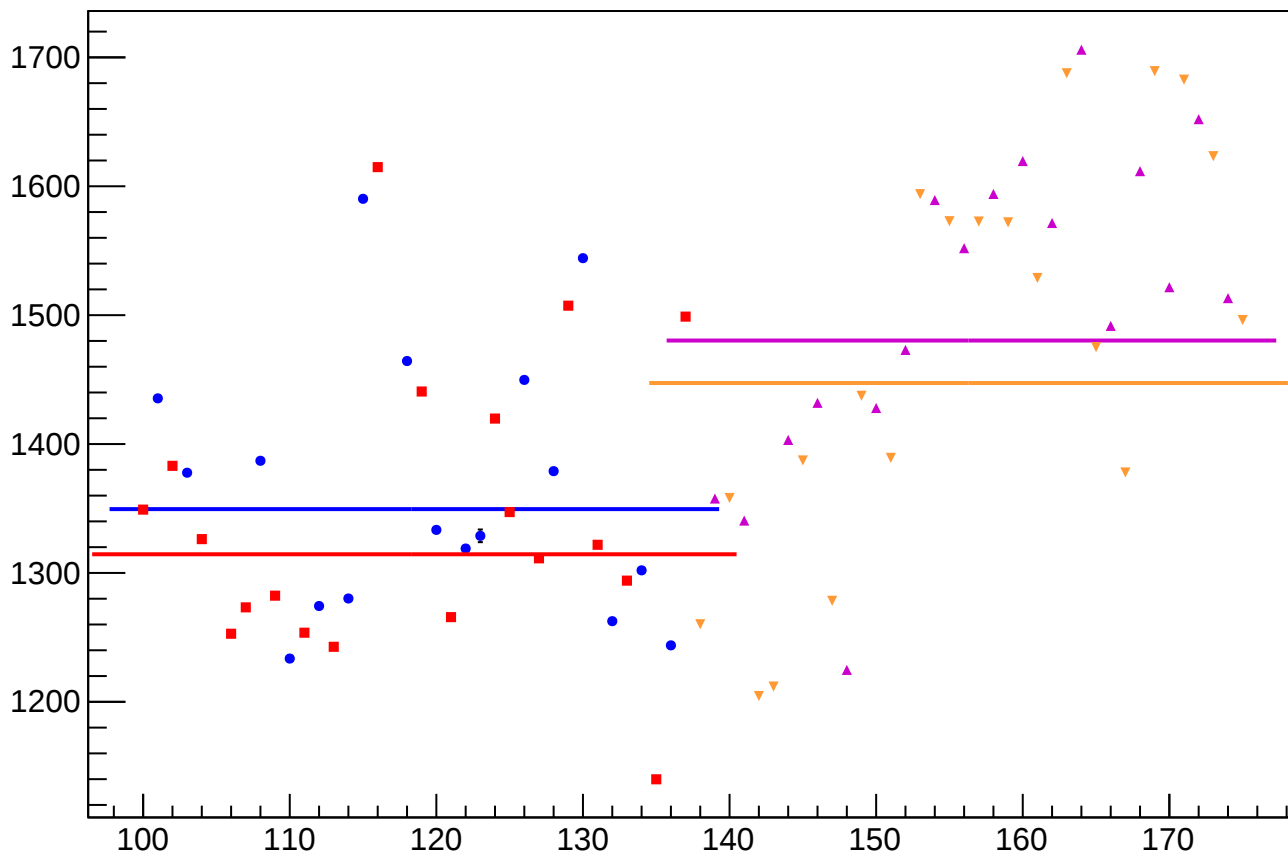
Right: 10.615 $\pm$ 0.359 χ^2 /NDF: 1193.9/35

In: 3.520 $\pm$ 0.317 χ^2 /NDF: 1371.9/34

Out: 4.013 $\pm$ 0.299 χ^2 /NDF: 631.5/38

All: 3.781 $\pm$ 0.218 χ^2 /NDF: 2004.7/73

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.522 $\pm$ 0.370 χ^2 /NDF: 64667.6/16

Left Out: 1447.347 $\pm$ 0.266 χ^2 /NDF:321568.0/19

Right Out: 1314.485 $\pm$ 0.350 χ^2 /NDF: 80952.7/18

Left In: 1480.321 $\pm$ 0.282 χ^2 /NDF:194459.8/17

Left: 1462.860 $\pm$ 0.193 χ^2 /NDF: 523267.5/37

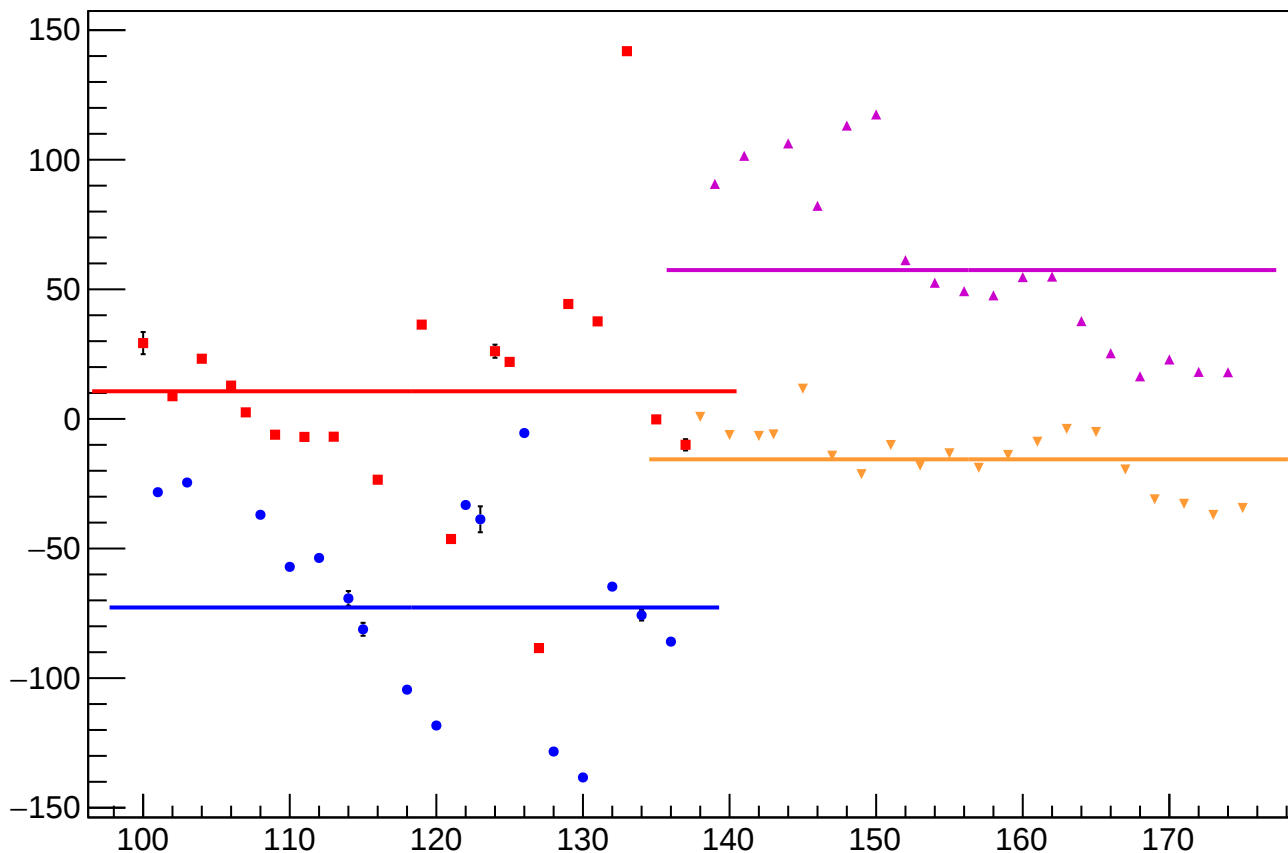
Right: 1331.011 $\pm$ 0.254 χ^2 /NDF: 150358.7/35

In: 1432.251 $\pm$ 0.224 χ^2 /NDF:338186.0/34

Out: 1398.670 $\pm$ 0.212 χ^2 /NDF:494051.7/38

All: 1414.484 $\pm$ 0.154 χ^2 /NDF: 844098.8/73

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.741 ± 0.362 $\chi^2/\text{NDF}: 11690.4/16$

Left Out: -15.581 ± 0.235 $\chi^2/\text{NDF}: 2875.4/19$

Right Out: 10.671 ± 0.352 $\chi^2/\text{NDF}: 18171.0/18$

Left In: 57.423 ± 0.247 $\chi^2/\text{NDF}: 18275.0/17$

Left: 19.107 ± 0.170 $\chi^2/\text{NDF}: 66883.5/37$

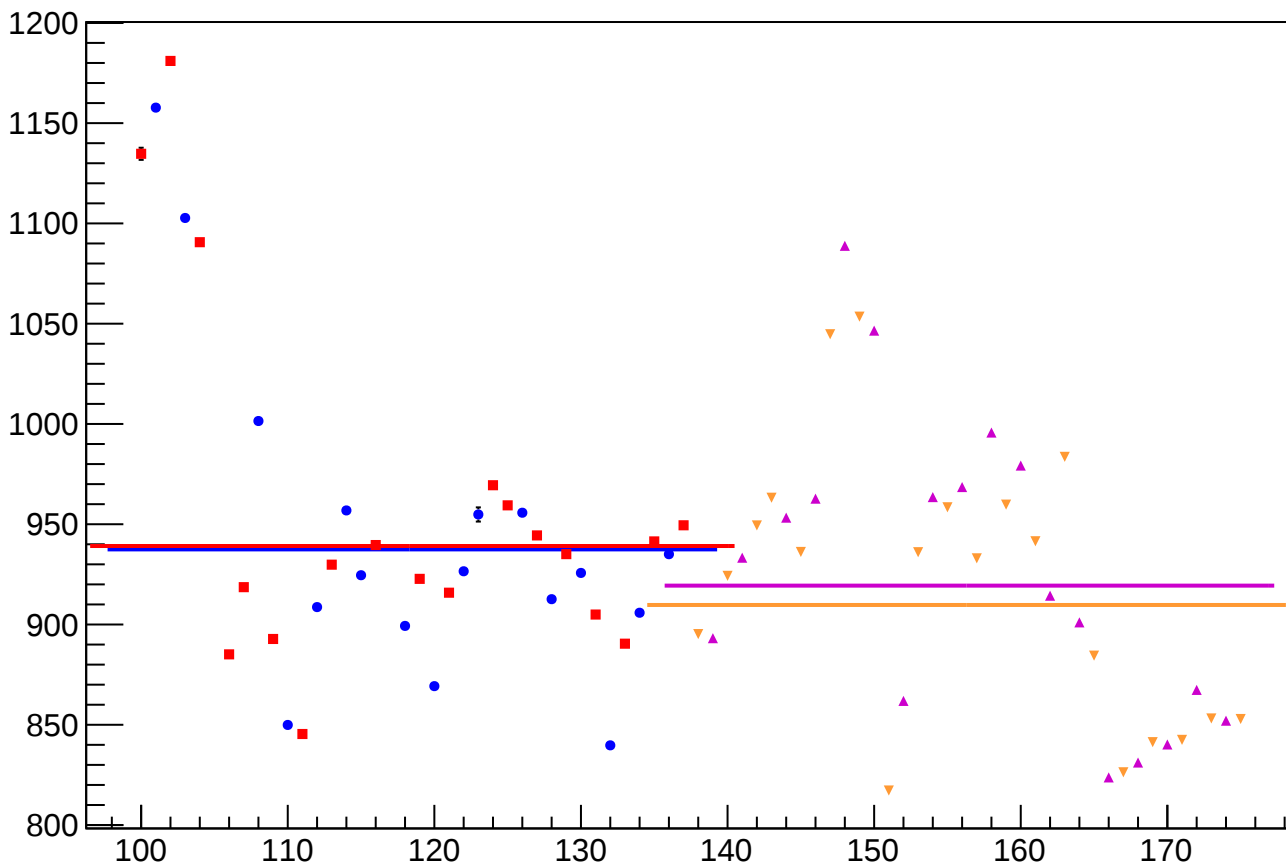
Right: -29.865 ± 0.253 $\chi^2/\text{NDF}: 57099.2/35$

In: 16.058 ± 0.204 $\chi^2/\text{NDF}: 117995.3/34$

Out: -7.483 ± 0.196 $\chi^2/\text{NDF}: 24885.5/38$

All: 3.782 ± 0.141 $\chi^2/\text{NDF}: 149806.2/73$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.454 ± 0.256 χ^2/NDF : 98307.6/16

Left Out: 909.741 ± 0.166 χ^2/NDF : 156430.0/19

Right Out: 939.140 ± 0.249 χ^2/NDF : 90253.2/18

Left In: 919.388 ± 0.175 χ^2/NDF : 164775.2/17

Left: 914.325 ± 0.121 χ^2/NDF : 322802.4/37

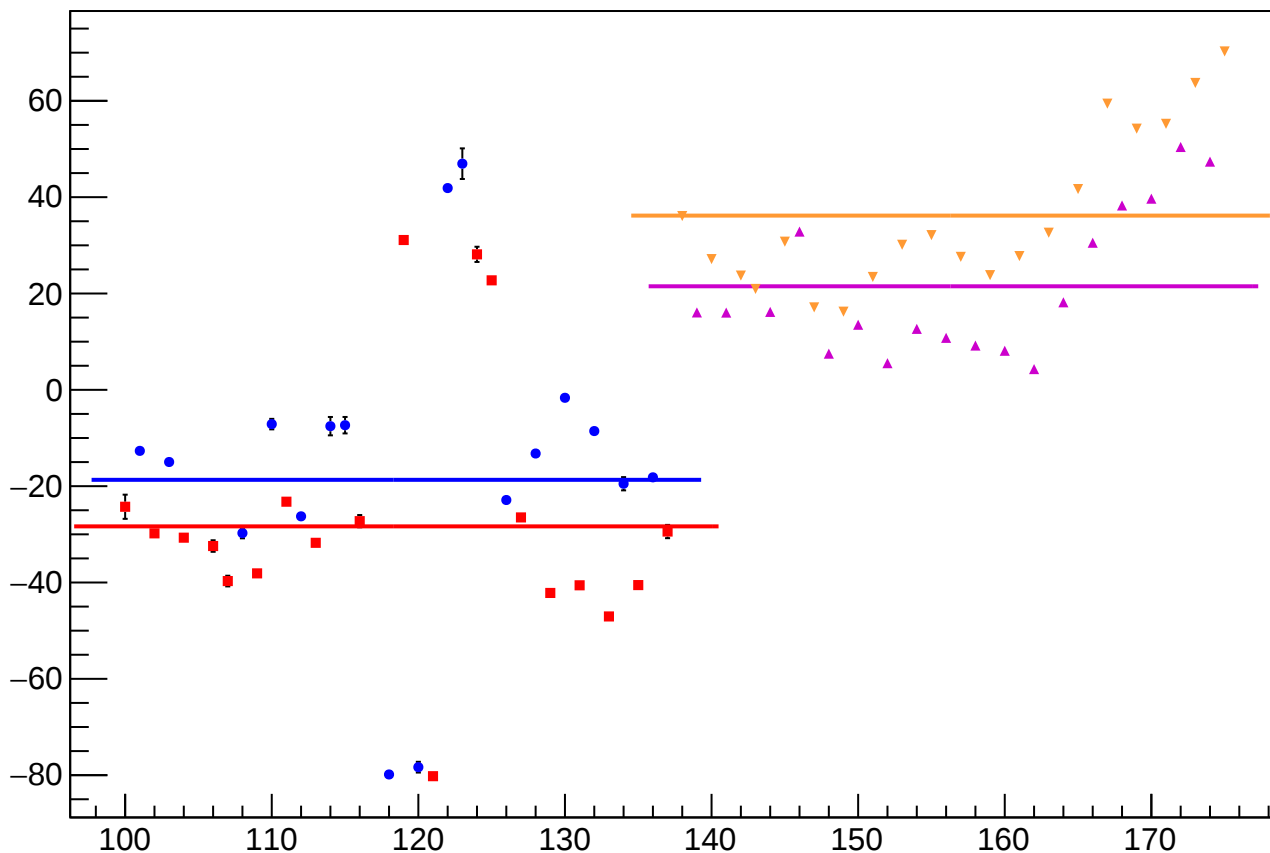
Right: 938.320 ± 0.179 χ^2/NDF : 188583.1/35

In: 925.129 ± 0.144 χ^2/NDF : 266474.2/34

Out: 918.809 ± 0.138 χ^2/NDF : 256313.0/38

All: 921.834 ± 0.100 χ^2/NDF : 523785.4/73

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.683±/0.243 χ^2/NDF : 13006.2/16

Left Out: 36.175±/0.185 χ^2/NDF : 7791.7/19

Right Out: -28.347±/0.235 χ^2/NDF : 12508.1/18

Left In: 21.498±/0.195 χ^2/NDF : 5428.3/17

Left: 29.218±/0.134 χ^2/NDF : 16202.7/37

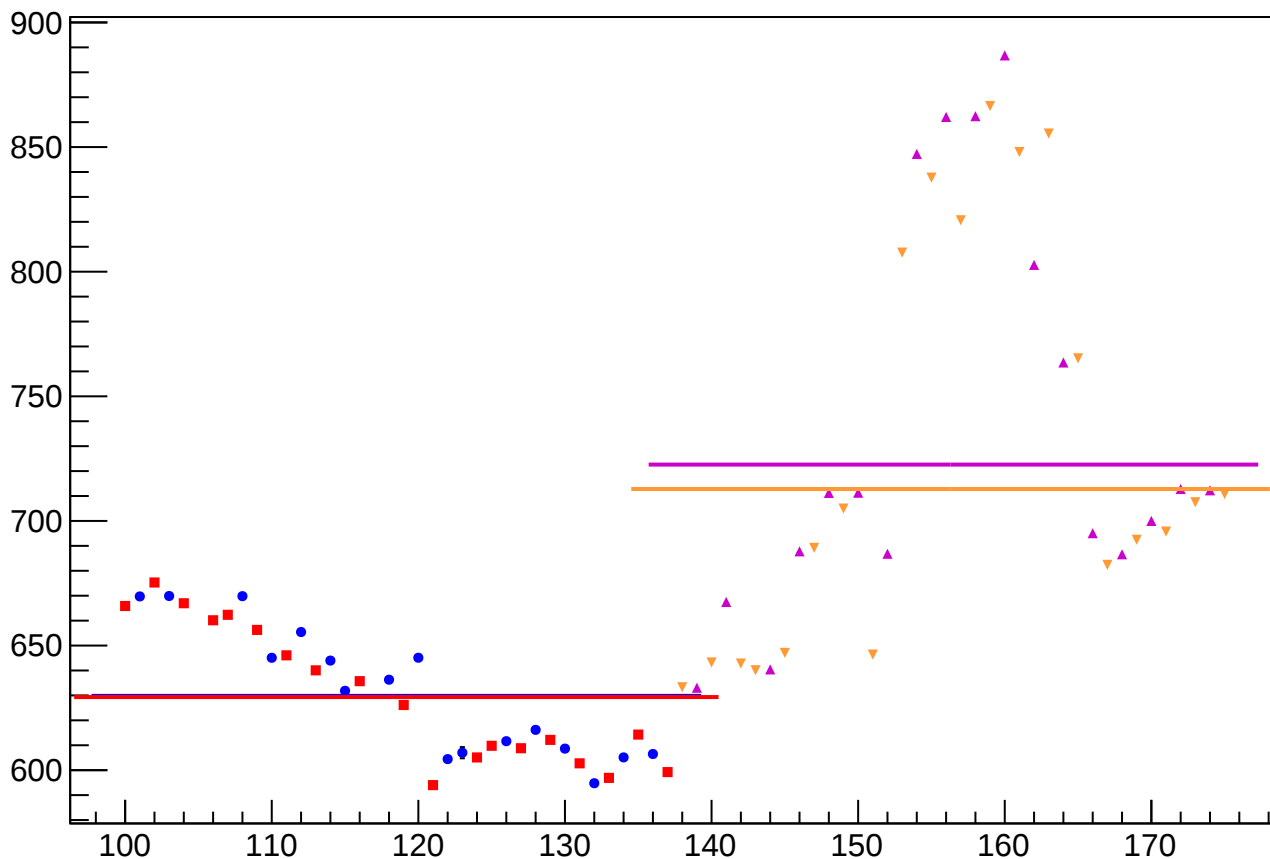
Right: -23.660±/0.169 χ^2/NDF : 26331.1/35

In: 5.741±/0.152 χ^2/NDF : 35101.1/34

Out: 11.545±/0.145 χ^2/NDF : 66725.5/38

All: 8.769±/0.105 χ^2/NDF : 102587.6/73

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.815+/-0.172 χ^2/NDF : 23298.3/16

Left Out: 712.808+/-0.131 χ^2/NDF : 332292.8/19

Right Out: 629.340+/-0.166 χ^2/NDF : 25538.5/18

Left In: 722.613+/-0.138 χ^2/NDF : 278194.3/17

Left: 717.455+/-0.095 χ^2/NDF : 613149.8/37

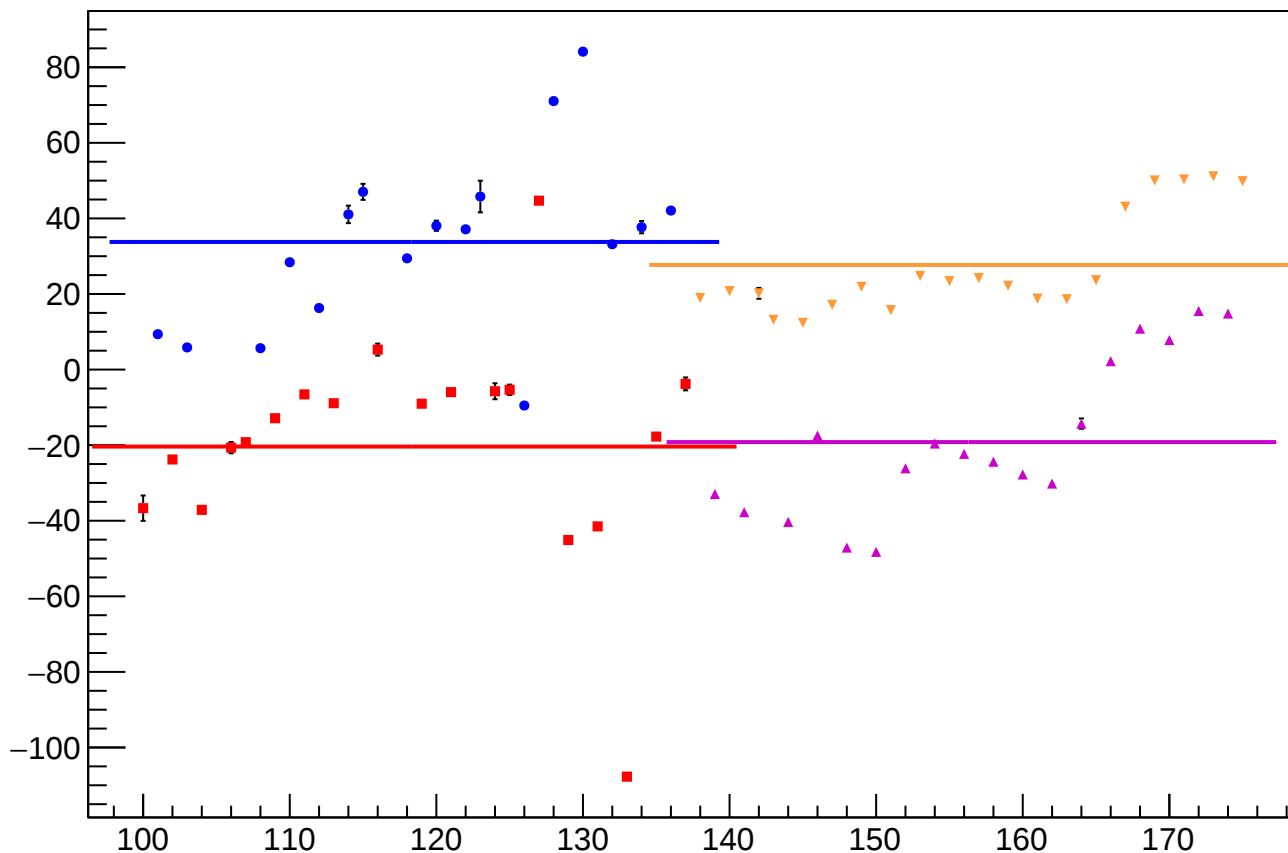
Right: 629.570+/-0.119 χ^2/NDF : 48840.7/35

In: 686.223+/-0.107 χ^2/NDF : 479285.8/34

Out: 680.945+/-0.103 χ^2/NDF : 513220.0/38

All: 683.469+/-0.074 χ^2/NDF : 993764.4/73

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.773+/-0.300 χ^2/NDF : 6487.9/16

Left Out: 27.689+/-0.263 χ^2/NDF : 2664.2/19

Right Out: -20.375+/-0.293 χ^2/NDF : 11287.7/18

Left In: -19.185+/-0.275 χ^2/NDF : 5617.9/17

Left: 5.263+/-0.190 χ^2/NDF : 23463.1/37

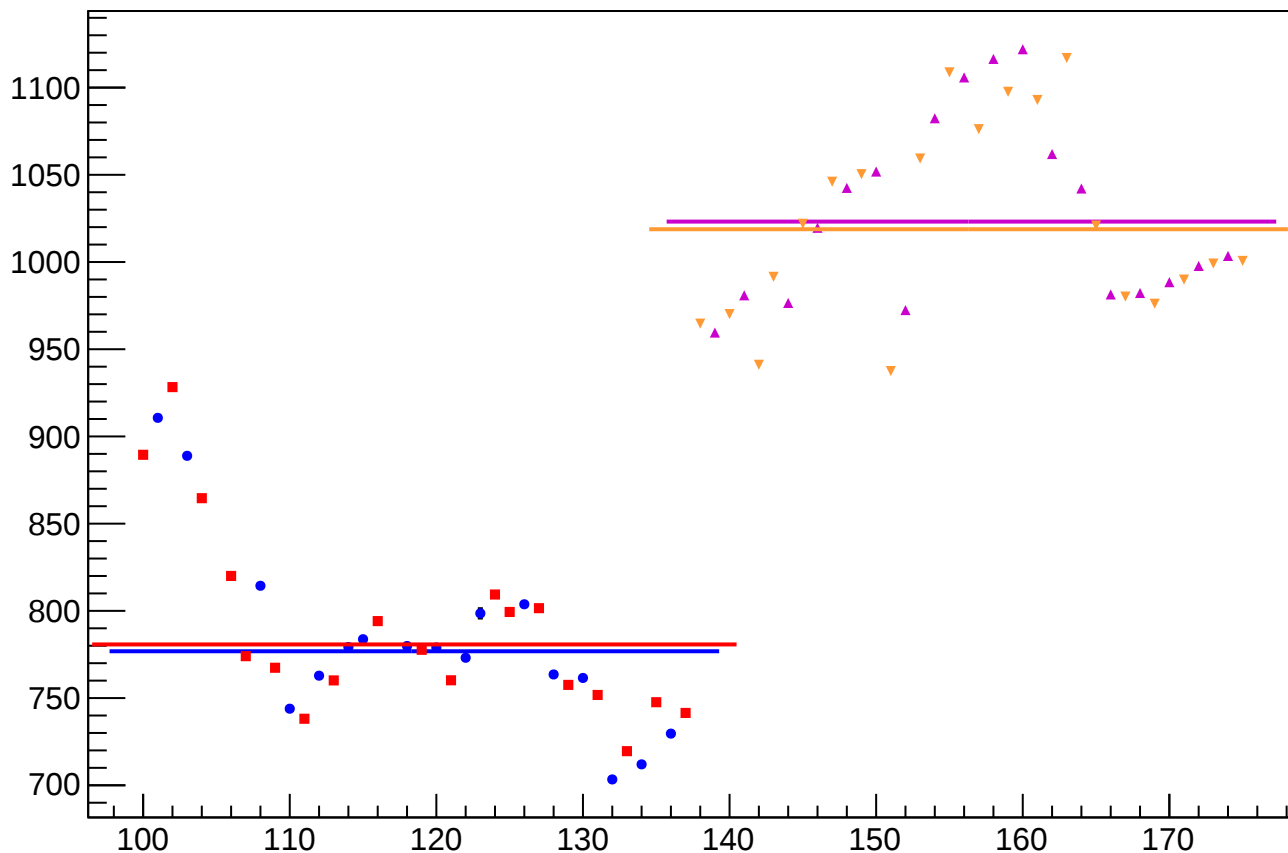
Right: 6.025+/-0.209 χ^2/NDF : 34481.3/35

In: 4.981+/-0.203 χ^2/NDF : 29059.4/34

Out: 6.191+/-0.196 χ^2/NDF : 28873.8/38

All: 5.607+/-0.141 χ^2/NDF : 57951.6/73

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.838 $\pm$ 0.212 χ^2 /NDF: 67487.1/16

Left Out: 1018.793 $\pm$ 0.186 χ^2 /NDF: 82571.8/19

Right Out: 780.755 $\pm$ 0.207 χ^2 /NDF: 57428.9/18

Left In: 1023.174 $\pm$ 0.194 χ^2 /NDF: 67751.0/17

Left: 1020.889 $\pm$ 0.134 χ^2 /NDF: 150588.0/37

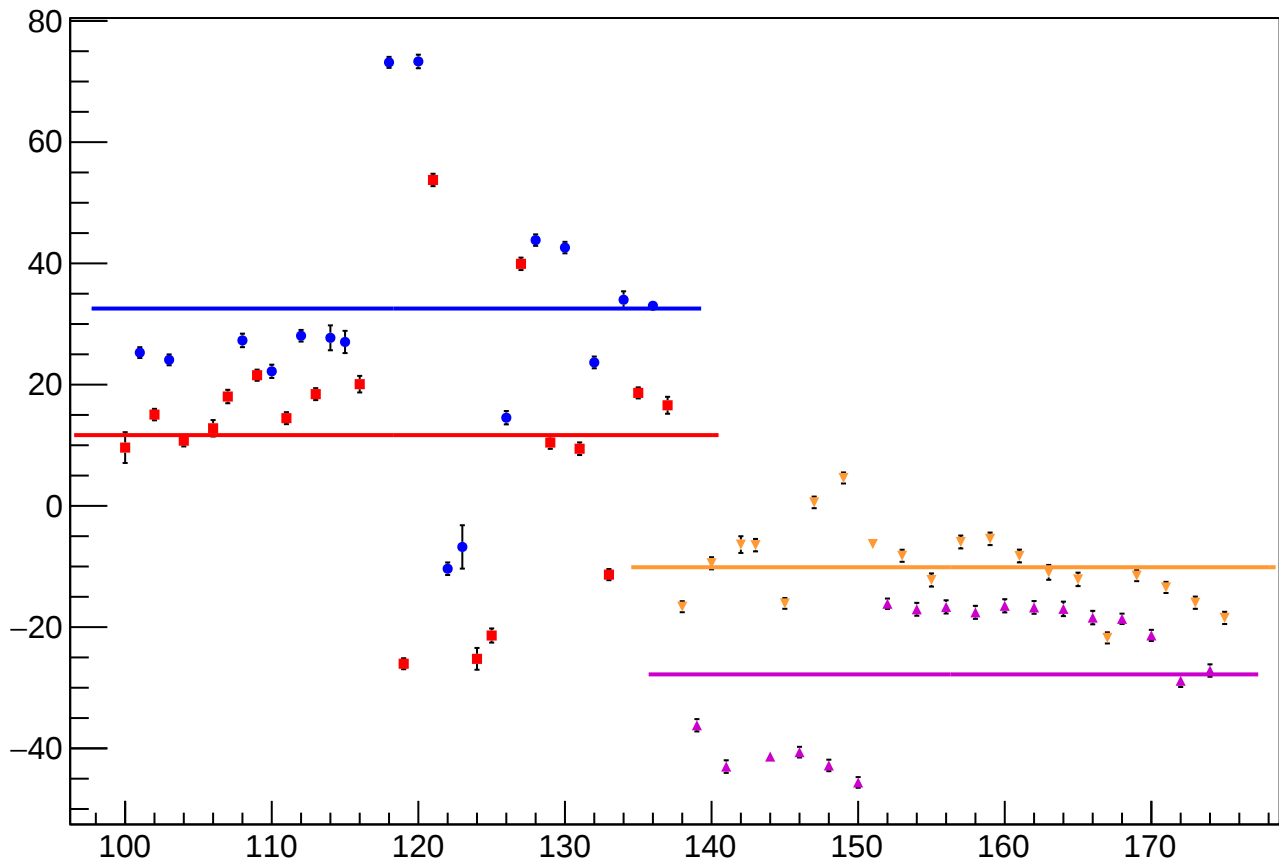
Right: 778.845 $\pm$ 0.148 χ^2 /NDF: 125090.9/35

In: 910.764 $\pm$ 0.143 χ^2 /NDF: 868881.1/34

Out: 912.324 $\pm$ 0.138 χ^2 /NDF: 872005.0/38

All: 911.571 $\pm$ 0.100 χ^2 /NDF: 1740947.5/73

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.552 +/- 0.253 χ^2/NDF : 6073.0/16

Left Out: -10.120 +/- 0.222 χ^2/NDF : 853.0/19

Right Out: 11.674 +/- 0.247 χ^2/NDF : 6357.6/18

Left In: -27.797 +/- 0.231 χ^2/NDF : 2438.2/17

Left: -18.590 +/- 0.160 χ^2/NDF : 6332.5/37

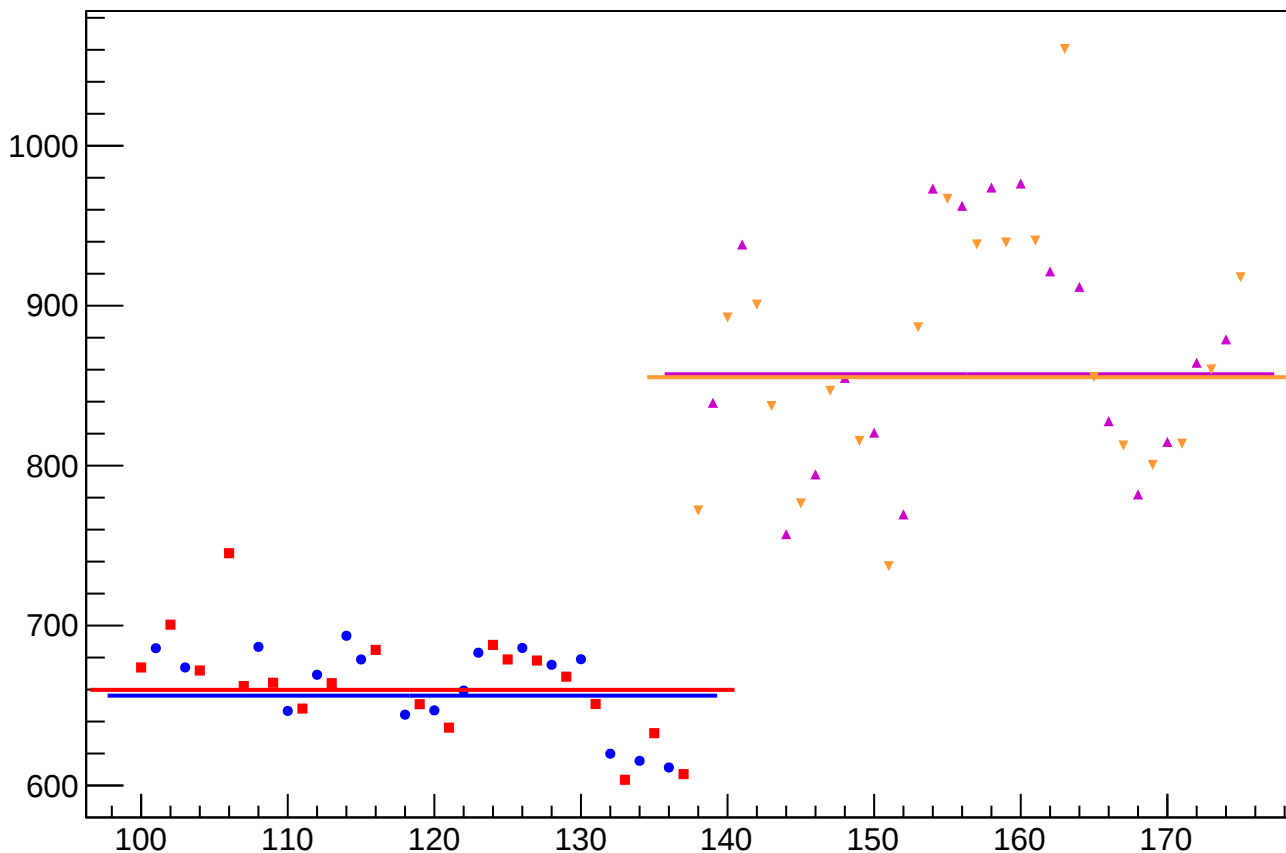
Right: 21.868 +/- 0.177 χ^2/NDF : 15919.4/35

In: -0.301 +/- 0.171 χ^2/NDF : 39519.4/34

Out: -0.387 +/- 0.165 χ^2/NDF : 11519.2/38

All: -0.345 +/- 0.119 χ^2/NDF : 51038.7/73

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.181 ± 0.179 χ^2/NDF : 23569.6/16

Left Out: 855.315 ± 0.157 χ^2/NDF : 224208.9/19

Right Out: 659.813 ± 0.175 χ^2/NDF : 28325.7/18

Left In: 857.134 ± 0.164 χ^2/NDF : 200179.1/17

Left: 856.186 ± 0.113 χ^2/NDF : 424452.4/37

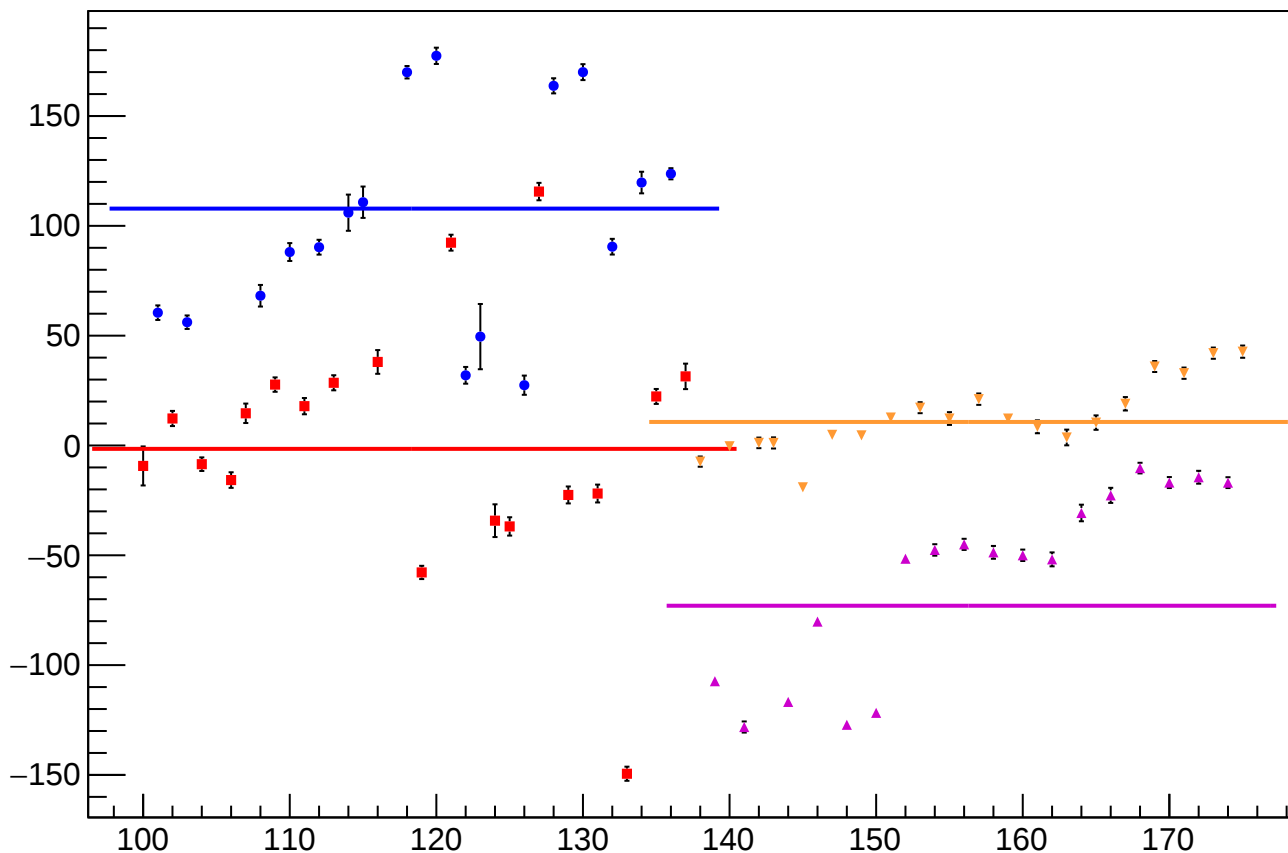
Right: 658.039 ± 0.125 χ^2/NDF : 52106.5/35

In: 765.575 ± 0.121 χ^2/NDF : 911367.7/34

Out: 768.002 ± 0.117 χ^2/NDF : 945963.5/38

All: 766.829 ± 0.084 χ^2/NDF : 1857540.2/73

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.852 $\pm$ 0.922 χ^2 /NDF: 2809.0/16

Left Out: 10.712 $\pm$ 0.539 χ^2 /NDF: 849.0/19

Right Out: -1.542 $\pm$ 0.883 χ^2 /NDF: 4523.8/18

Left In: -72.967 $\pm$ 0.555 χ^2 /NDF: 5881.8/17

Left: -29.951 $\pm$ 0.387 χ^2 /NDF: 18424.2/37

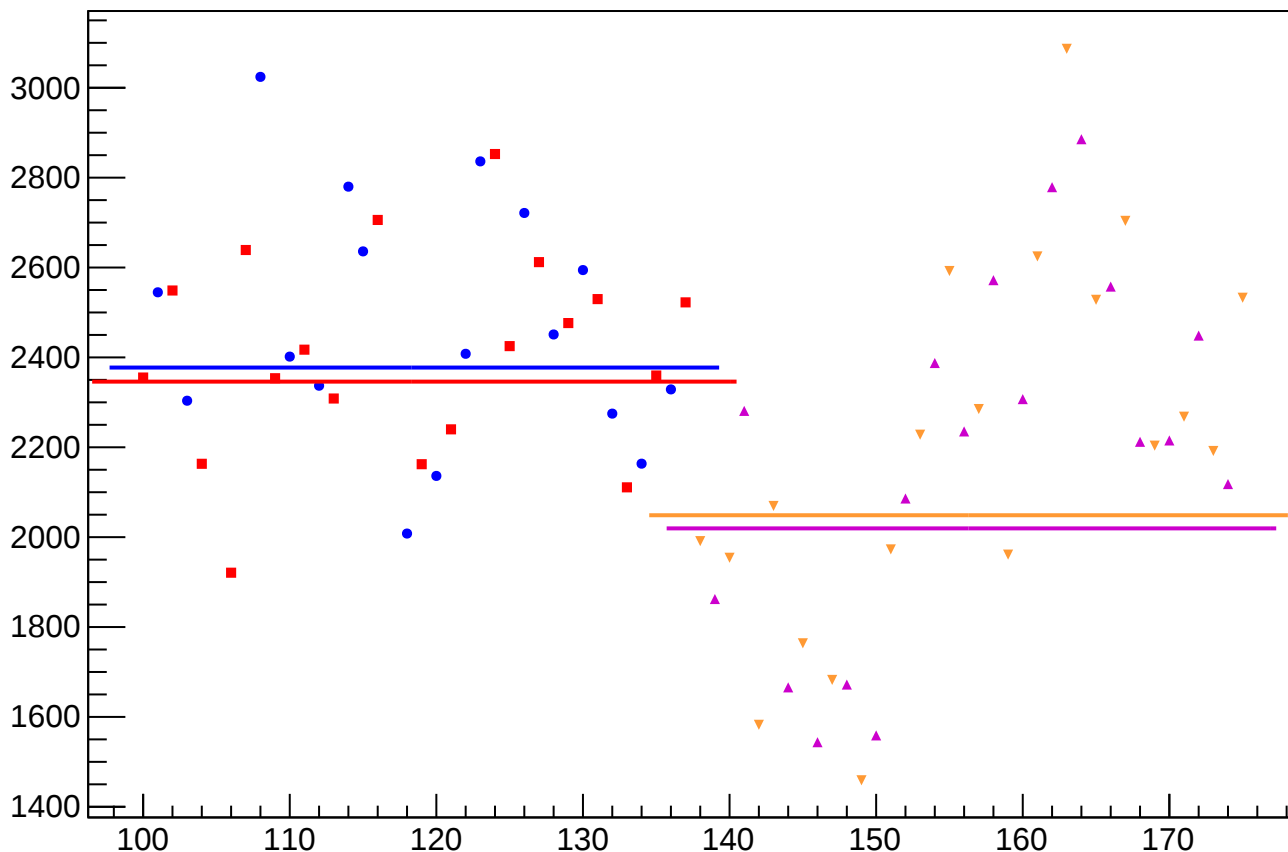
Right: 50.839 $\pm$ 0.638 χ^2 /NDF: 14676.8/35

In: -24.861 $\pm$ 0.475 χ^2 /NDF: 36948.2/34

Out: 7.383 $\pm$ 0.460 χ^2 /NDF: 5512.9/38

All: -8.224 $\pm$ 0.331 χ^2 /NDF: 44835.6/73

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.423+/-0.652 χ^2/NDF : 119648.6/16

Left Out: 2048.781+/-0.381 χ^2/NDF : 1023570.2/19

Right Out: 2346.121+/-0.625 χ^2/NDF : 108257.3/18

Left In: 2019.519+/-0.392 χ^2/NDF : 970705.3/17

Left: 2034.561+/-0.273 χ^2/NDF : 1997135.5/37

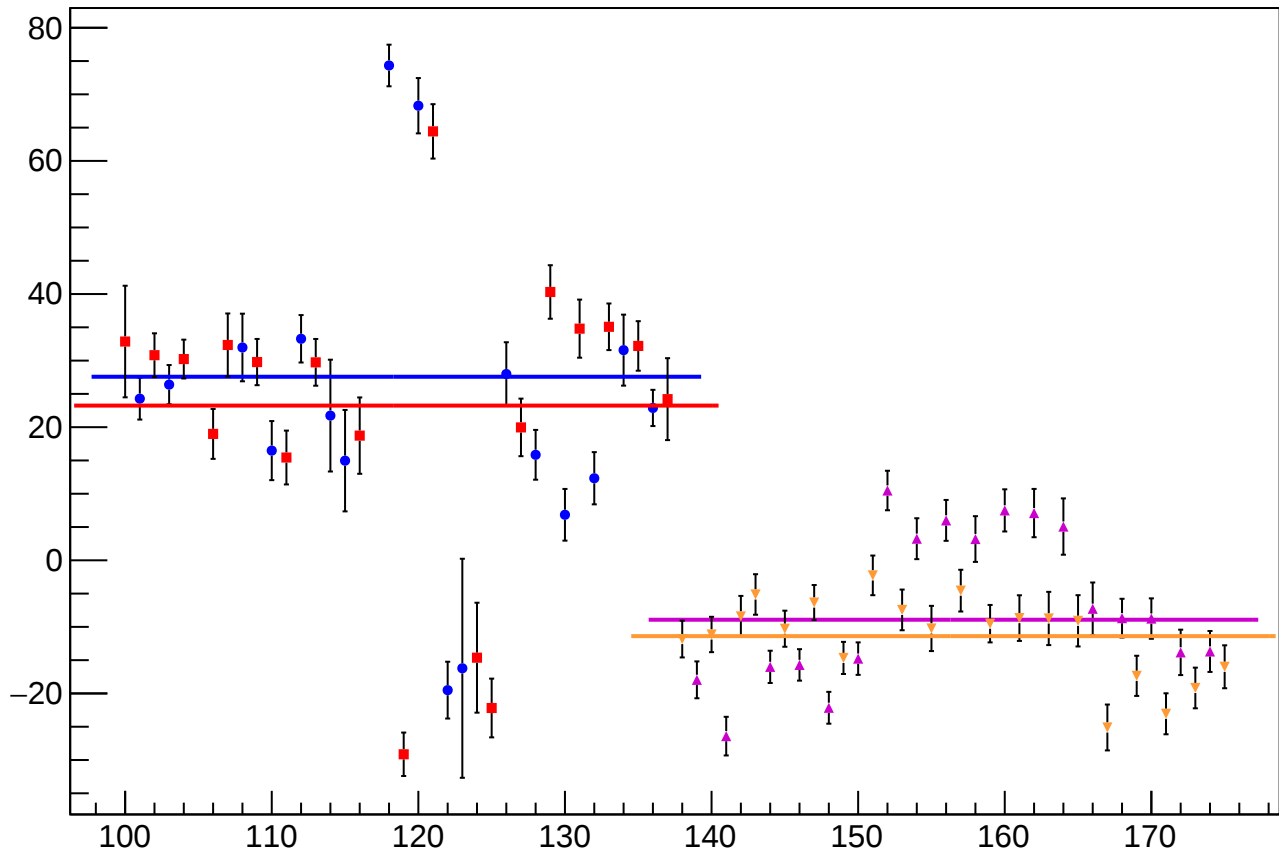
Right: 2361.109+/-0.451 χ^2/NDF : 229108.5/35

In: 2114.737+/-0.336 χ^2/NDF : 1311770.1/34

Out: 2129.550+/-0.326 χ^2/NDF : 1296892.7/38

All: 2122.380+/-0.234 χ^2/NDF : 2609665.2/73

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.577 ± 0.975 $\chi^2/\text{NDF}: 519.6/16$

Left Out: -11.390 ± 0.676 $\chi^2/\text{NDF}: 71.3/19$

Right Out: 23.243 ± 0.927 $\chi^2/\text{NDF}: 557.9/18$

Left In: -8.926 ± 0.696 $\chi^2/\text{NDF}: 256.6/17$

Left: -10.194 ± 0.485 $\chi^2/\text{NDF}: 334.3/37$

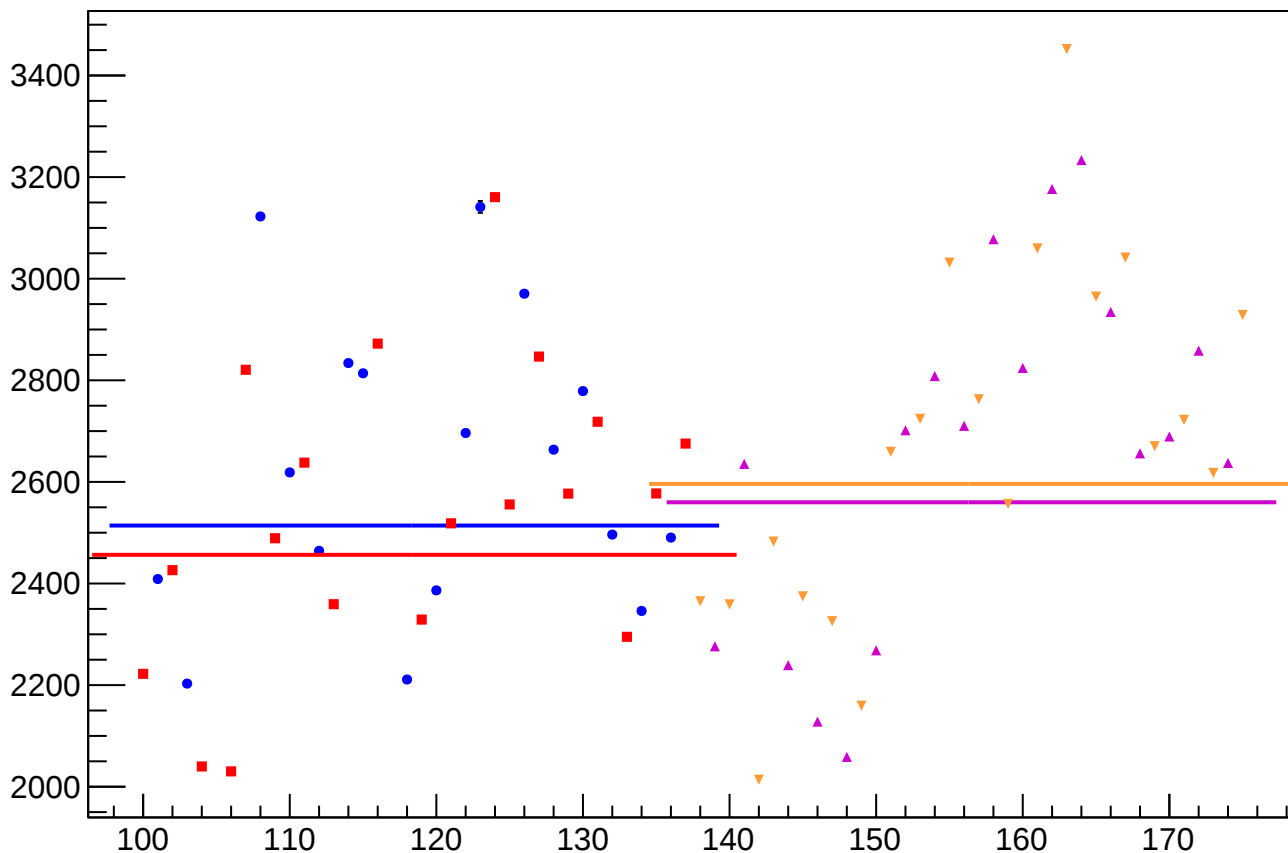
Right: 25.301 ± 0.672 $\chi^2/\text{NDF}: 1087.8/35$

In: 3.394 ± 0.566 $\chi^2/\text{NDF}: 1705.2/34$

Out: 0.625 ± 0.546 $\chi^2/\text{NDF}: 1540.8/38$

All: 1.959 ± 0.393 $\chi^2/\text{NDF}: 3258.3/73$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2514.088+/-0.689 χ^2/NDF : 120961.3/16

Left Out: 2596.090+/-0.478 χ^2/NDF : 453300.7/19

Right Out: 2456.460+/-0.655 χ^2/NDF : 149732.7/18

Left In: 2559.881+/-0.492 χ^2/NDF : 471240.2/17

Left: 2578.517+/-0.343 χ^2/NDF : 927328.8/37

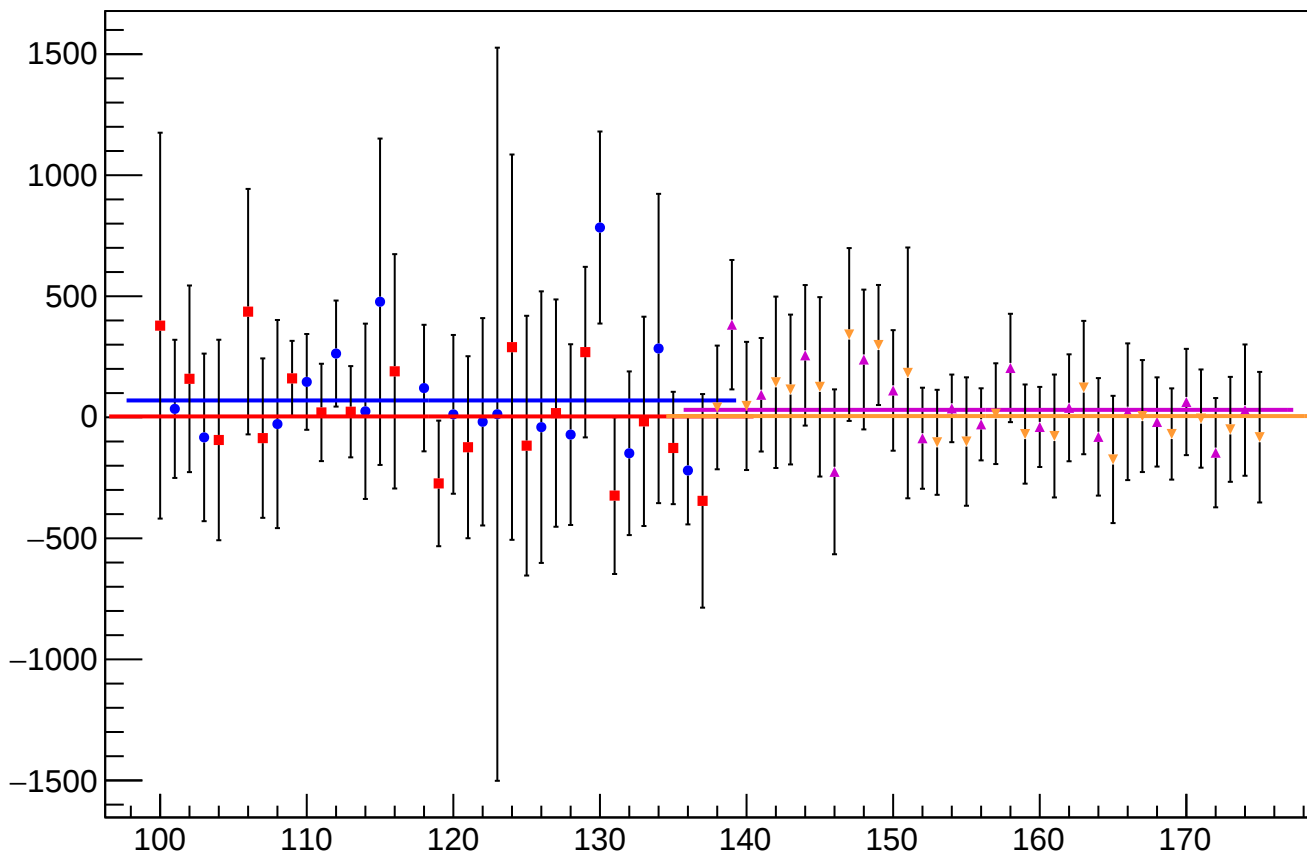
Right: 2483.827+/-0.475 χ^2/NDF : 274364.7/35

In: 2544.425+/-0.400 χ^2/NDF : 595125.6/34

Out: 2547.650+/-0.386 χ^2/NDF : 632667.9/38

All: 2546.096+/-0.278 χ^2/NDF : 1227827.1/73

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.587 $\pm$ 79.023 χ^2 /NDF: 7.3/16

Left Out: 5.051 $\pm$ 56.357 χ^2 /NDF:4.5/19

Right Out: 3.562 $\pm$ 69.980 χ^2 /NDF: 6.4/18

Left In: 30.767 $\pm$ 50.632 χ^2 /NDF:5.8/17

Left: 19.281 $\pm$ 37.664 χ^2 /NDF: 10.4/37

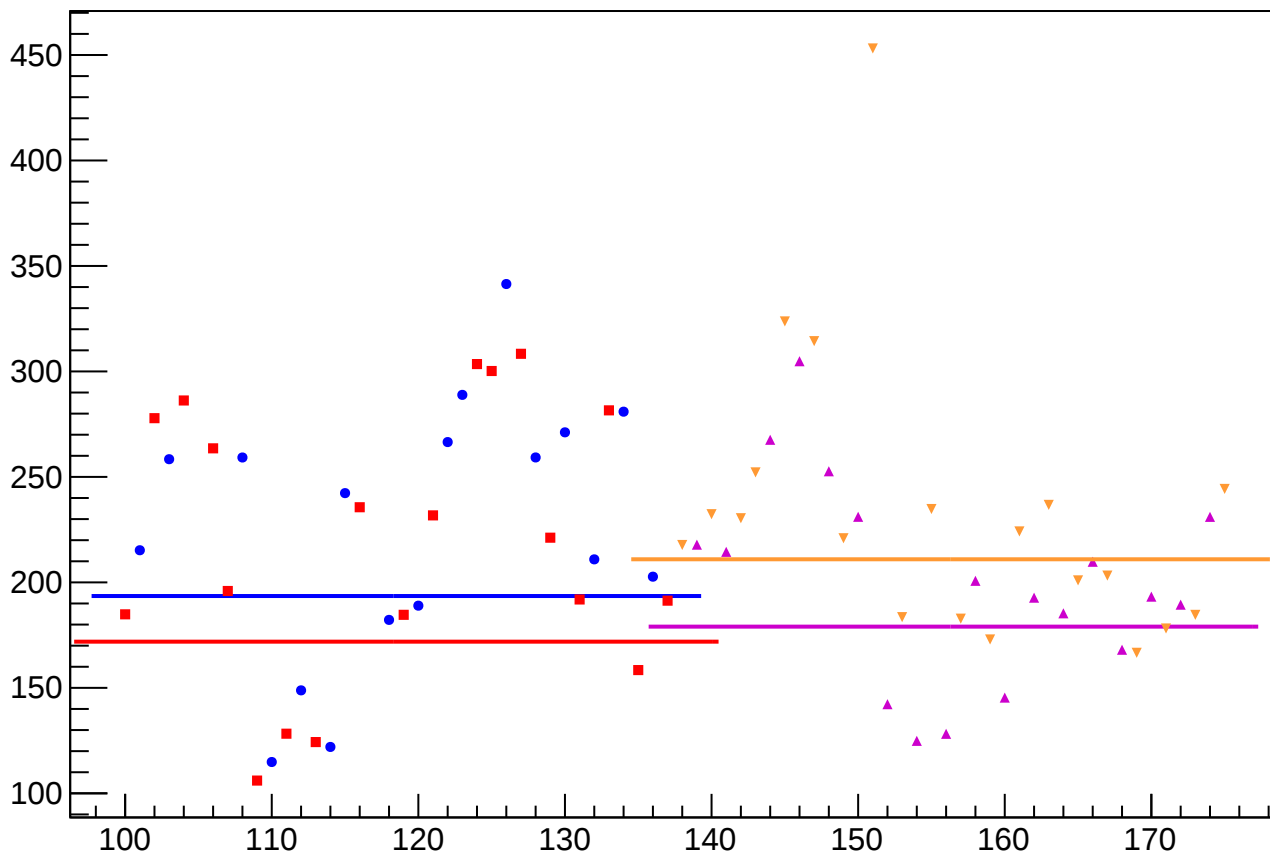
Right: 32.582 $\pm$ 52.390 χ^2 /NDF: 14.1/35

In: 42.065 $\pm$ 42.632 χ^2 /NDF:13.3/34

Out: 4.465 $\pm$ 43.893 χ^2 /NDF:10.9/38

All: 23.813 $\pm$ 30.581 χ^2 /NDF: 24.5/73

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.533 $\pm$ 0.056 χ^2 /NDF: 1010428.2/16

Left Out: 210.951 $\pm$ 0.040 χ^2 /NDF:1253837.1/19

Right Out: 171.901 $\pm$ 0.049 χ^2 /NDF: 1576883.7/18

Left In: 179.024 $\pm$ 0.036 χ^2 /NDF:1588022.6/17

Left: 193.284 $\pm$ 0.027 χ^2 /NDF: 3197038.0/37

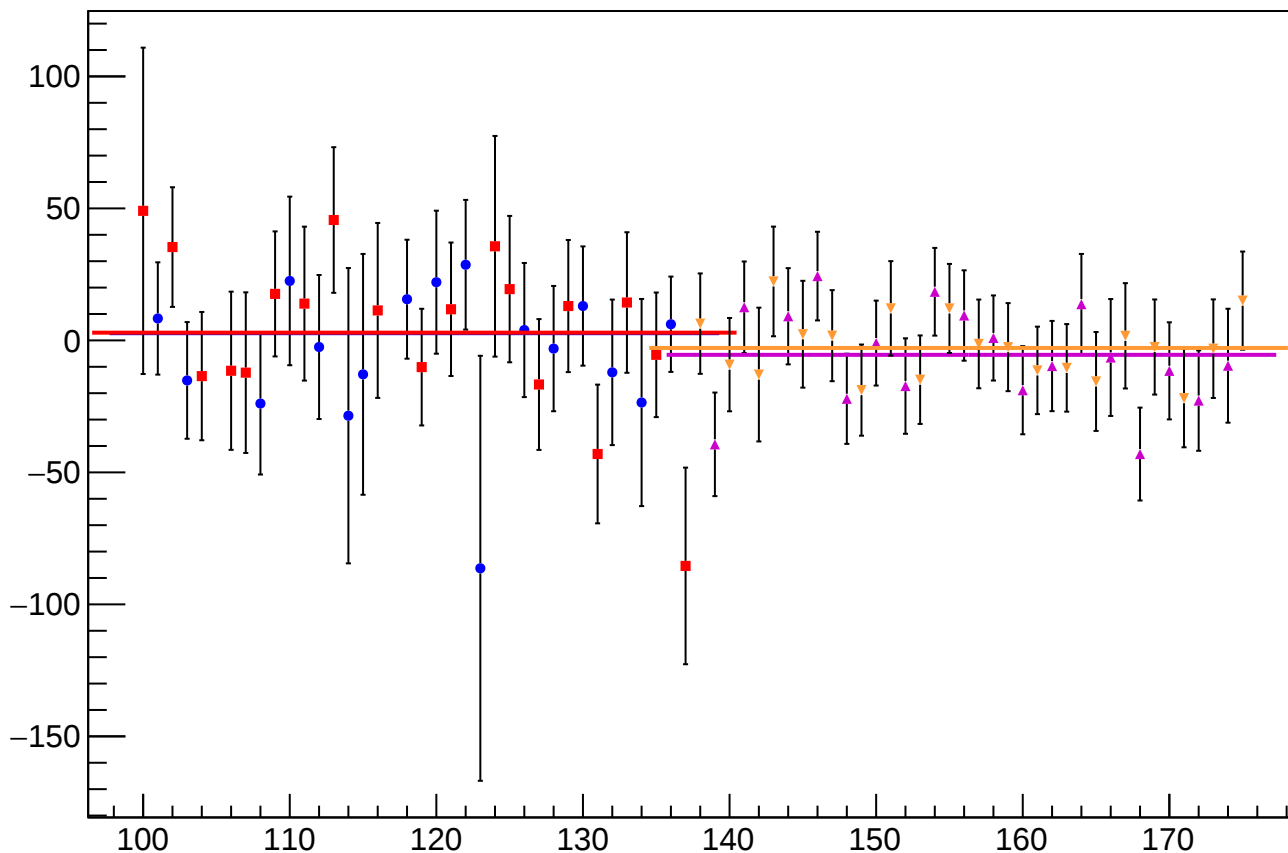
Right: 181.409 $\pm$ 0.037 χ^2 /NDF: 2671312.8/35

In: 183.247 $\pm$ 0.030 χ^2 /NDF:2646247.1/34

Out: 195.588 $\pm$ 0.031 χ^2 /NDF:3208494.6/38

All: 189.238 $\pm$ 0.022 χ^2 /NDF: 5936098.0/73

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.733 ± 6.424 $\chi^2/\text{NDF}: 6.8/16$

Left Out: -2.860 ± 4.059 $\chi^2/\text{NDF}: 8.0/19$

Right Out: 2.928 ± 6.279 $\chi^2/\text{NDF}: 17.8/18$

Left In: -5.474 ± 4.202 $\chi^2/\text{NDF}: 19.6/17$

Left: -4.122 ± 2.919 $\chi^2/\text{NDF}: 27.7/37$

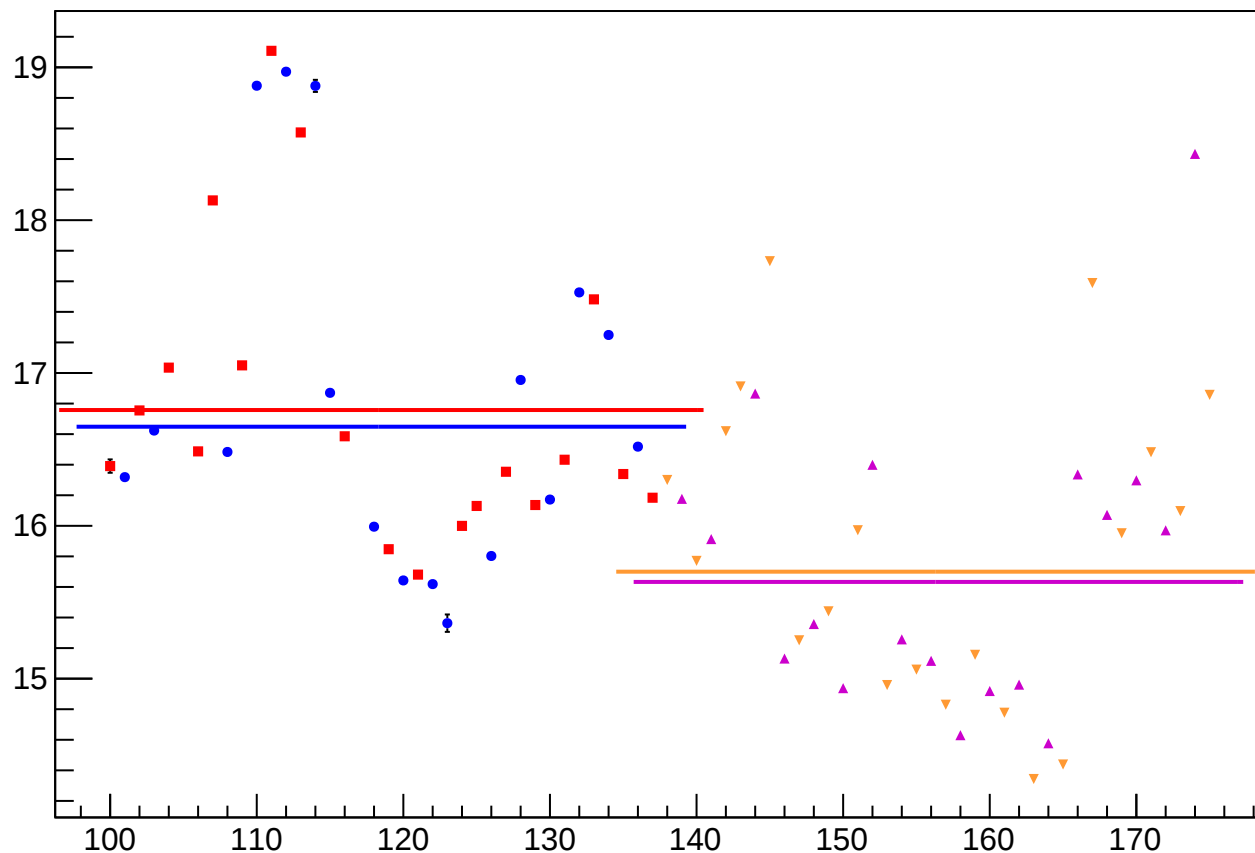
Right: 2.833 ± 4.490 $\chi^2/\text{NDF}: 24.5/35$

In: -3.015 ± 3.517 $\chi^2/\text{NDF}: 27.5/34$

Out: -1.154 ± 3.409 $\chi^2/\text{NDF}: 26.3/38$

All: -2.055 ± 2.448 $\chi^2/\text{NDF}: 53.9/73$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.649 $\pm$ 0.005 χ^2 /NDF: 42566.9/16

Left Out: 15.700 $\pm$ 0.003 χ^2 /NDF:107333.7/19

Right Out: 16.758 $\pm$ 0.004 χ^2 /NDF: 39950.7/18

Left In: 15.633 $\pm$ 0.003 χ^2 /NDF:84518.7/17

Left: 15.668 $\pm$ 0.002 χ^2 /NDF: 192115.7/37

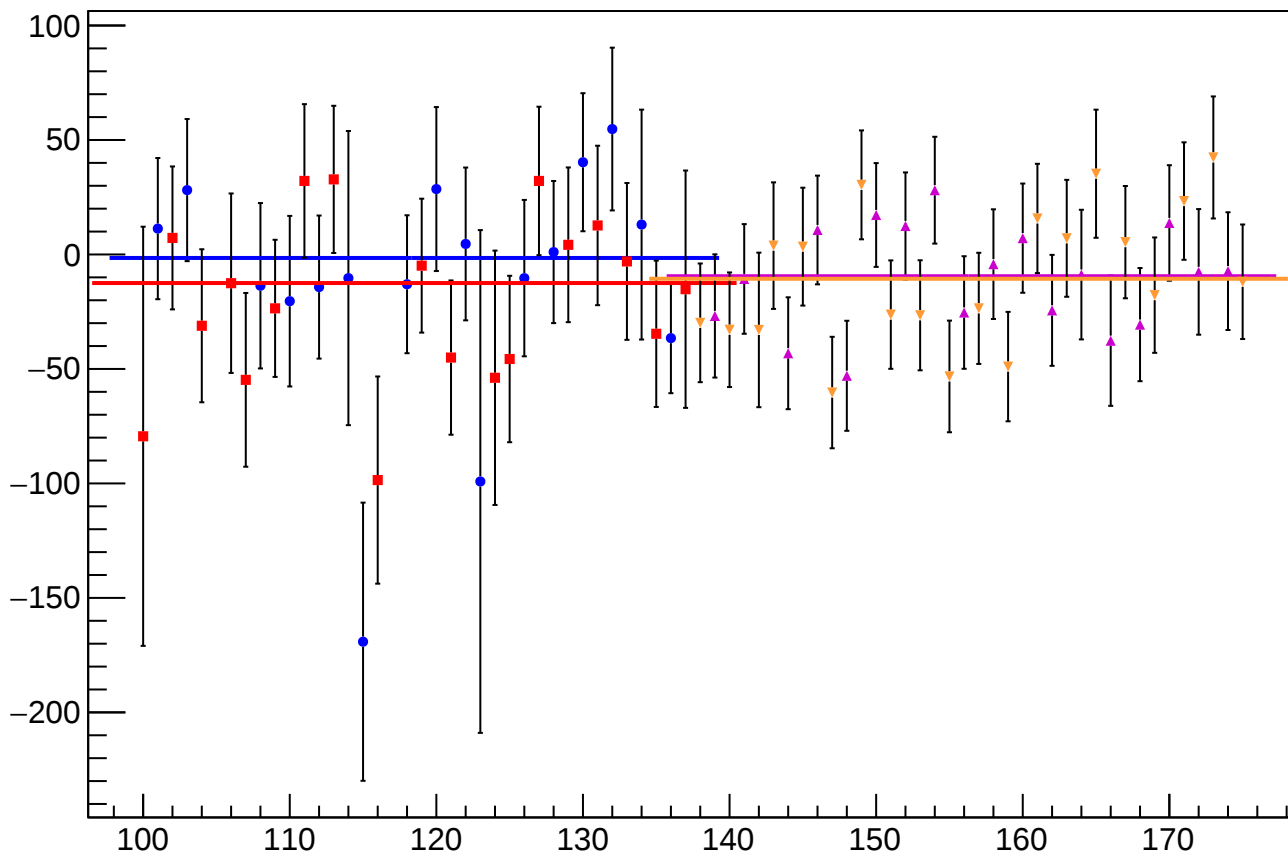
Right: 16.704 $\pm$ 0.003 χ^2 /NDF: 82813.0/35

In: 15.937 $\pm$ 0.002 χ^2 /NDF:162092.3/34

Out: 16.012 $\pm$ 0.002 χ^2 /NDF:187315.7/38

All: 15.976 $\pm$ 0.002 χ^2 /NDF: 349870.5/73

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.523 ± 8.485 $\chi^2/\text{NDF}: 17.6/16$

Left Out: -10.615 ± 5.660 $\chi^2/\text{NDF}: 26.9/19$

Right Out: -12.475 ± 8.210 $\chi^2/\text{NDF}: 15.6/18$

Left In: -9.500 ± 5.841 $\chi^2/\text{NDF}: 15.1/17$

Left: -10.075 ± 4.065 $\chi^2/\text{NDF}: 42.0/37$

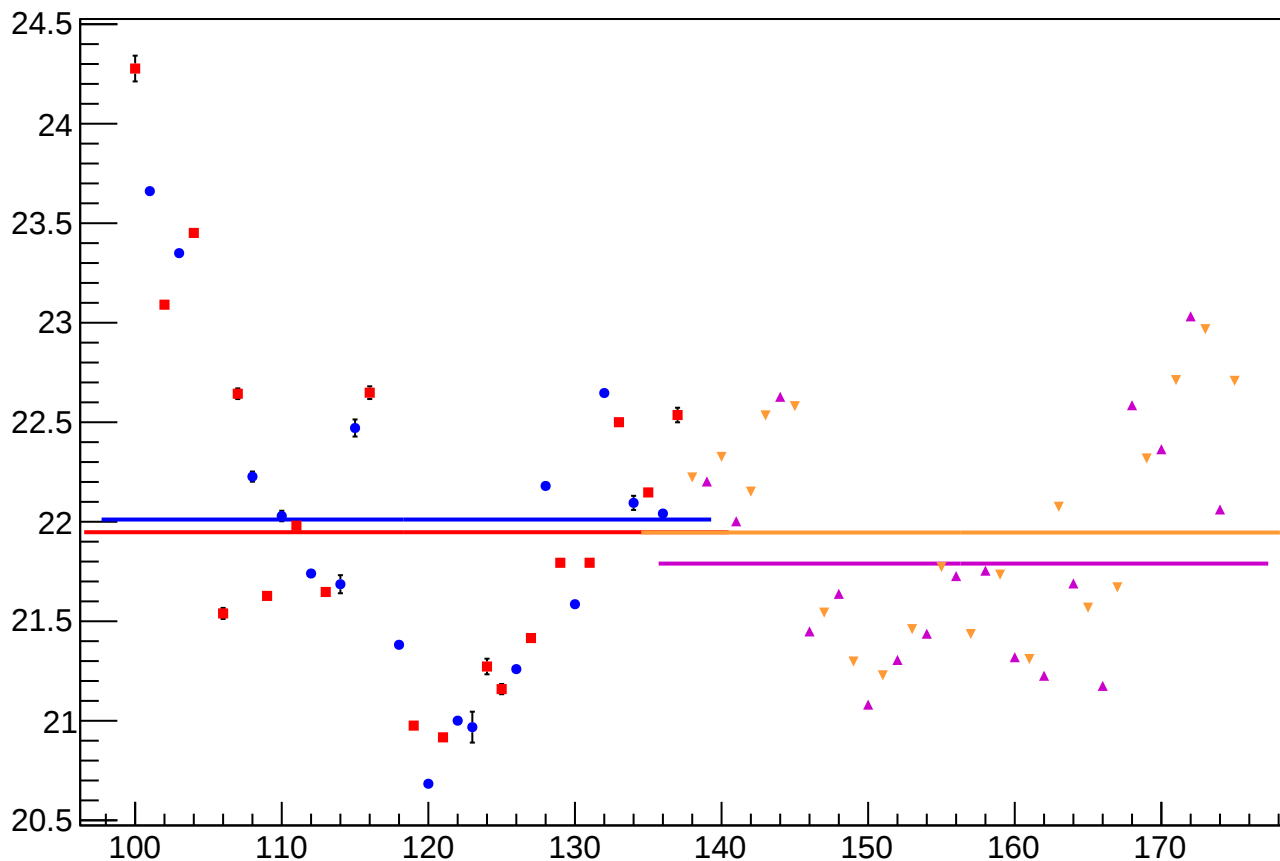
Right: -7.179 ± 5.900 $\chi^2/\text{NDF}: 34.1/35$

In: -6.935 ± 4.811 $\chi^2/\text{NDF}: 33.3/34$

Out: -11.214 ± 4.660 $\chi^2/\text{NDF}: 42.5/38$

All: -9.143 ± 3.347 $\chi^2/\text{NDF}: 76.2/73$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.011+/-0.006 χ^2/NDF : 17546.9/16

Left Out: 21.946+/-0.004 χ^2/NDF : 17814.1/19

Right Out: 21.947+/-0.006 χ^2/NDF : 16592.7/18

Left In: 21.790+/-0.004 χ^2/NDF : 17009.9/17

Left: 21.870+/-0.003 χ^2/NDF : 35561.3/37

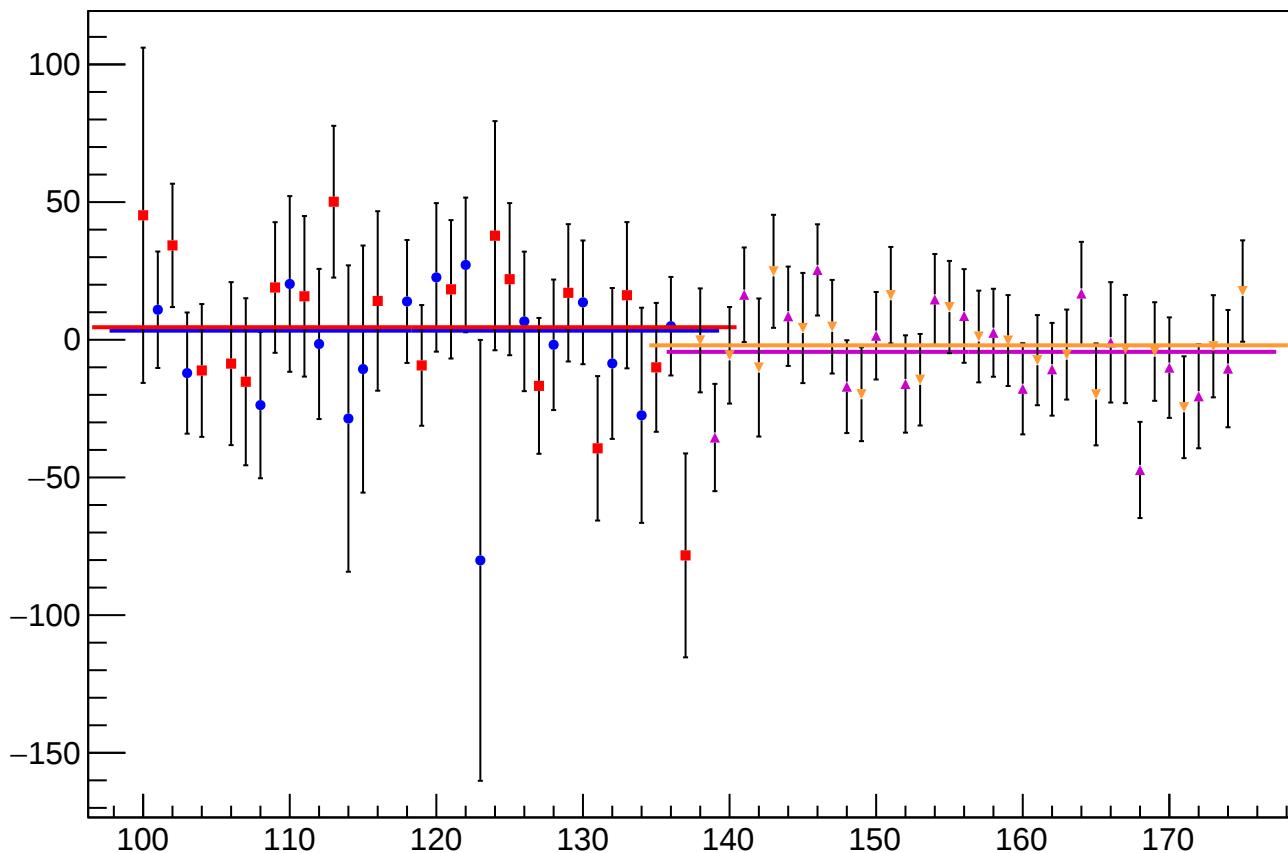
Right: 21.978+/-0.004 χ^2/NDF : 34197.9/35

In: 21.861+/-0.003 χ^2/NDF : 35480.3/34

Out: 21.946+/-0.003 χ^2/NDF : 34406.9/38

All: 21.905+/-0.002 χ^2/NDF : 70212.8/73

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.317+/-6.388 χ^2/NDF : 6.3/16

Left Out: -2.011+/-4.016 χ^2/NDF : 9.3/19

Right Out: 4.561+/-6.244 χ^2/NDF : 17.7/18

Left In: -4.389+/-4.157 χ^2/NDF : 20.0/17

Left: -3.159+/-2.888 χ^2/NDF : 29.5/37

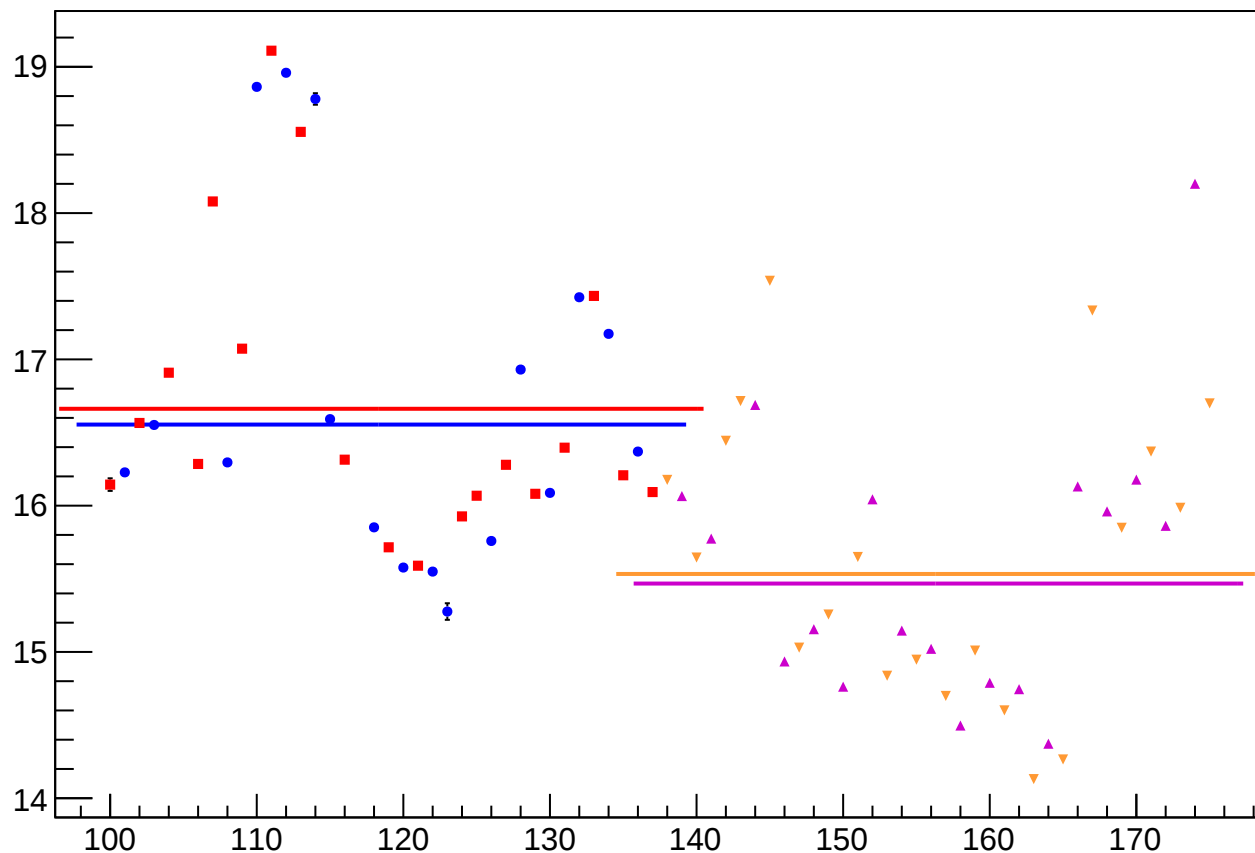
Right: 3.953+/-4.465 χ^2/NDF : 24.0/35

In: -2.096+/-3.484 χ^2/NDF : 27.3/34

Out: -0.088+/-3.377 χ^2/NDF : 27.8/38

All: -1.061+/-2.425 χ^2/NDF : 55.3/73

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.554 $\pm$ 0.005 χ^2 /NDF: 44475.2/16

Left Out: 15.533 $\pm$ 0.003 χ^2 /NDF: 108409.6/19

Right Out: 16.662 $\pm$ 0.004 χ^2 /NDF: 43063.6/18

Left In: 15.468 $\pm$ 0.003 χ^2 /NDF: 84131.9/17

Left: 15.501 $\pm$ 0.002 χ^2 /NDF: 192798.8/37

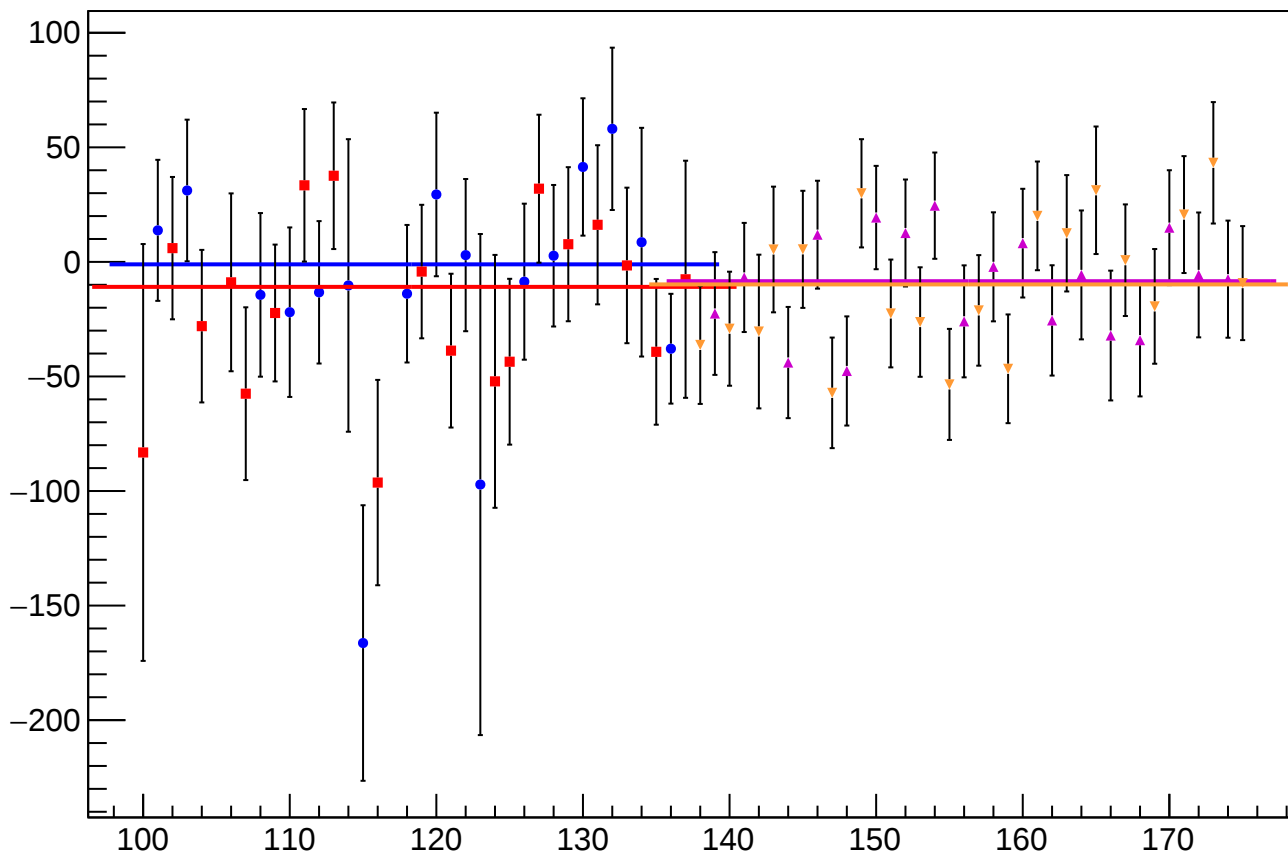
Right: 16.610 $\pm$ 0.003 χ^2 /NDF: 87830.7/35

In: 15.791 $\pm$ 0.002 χ^2 /NDF: 169275.1/34

Out: 15.864 $\pm$ 0.002 χ^2 /NDF: 197752.0/38

All: 15.828 $\pm$ 0.002 χ^2 /NDF: 367475.3/73

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.068 ± 8.444 $\chi^2/\text{NDF}: 18.5/16$

Left Out: -9.823 ± 5.624 $\chi^2/\text{NDF}: 26.3/19$

Right Out: -10.900 ± 8.169 $\chi^2/\text{NDF}: 16.2/18$

Left In: -8.418 ± 5.806 $\chi^2/\text{NDF}: 14.5/17$

Left: -9.143 ± 4.040 $\chi^2/\text{NDF}: 40.8/37$

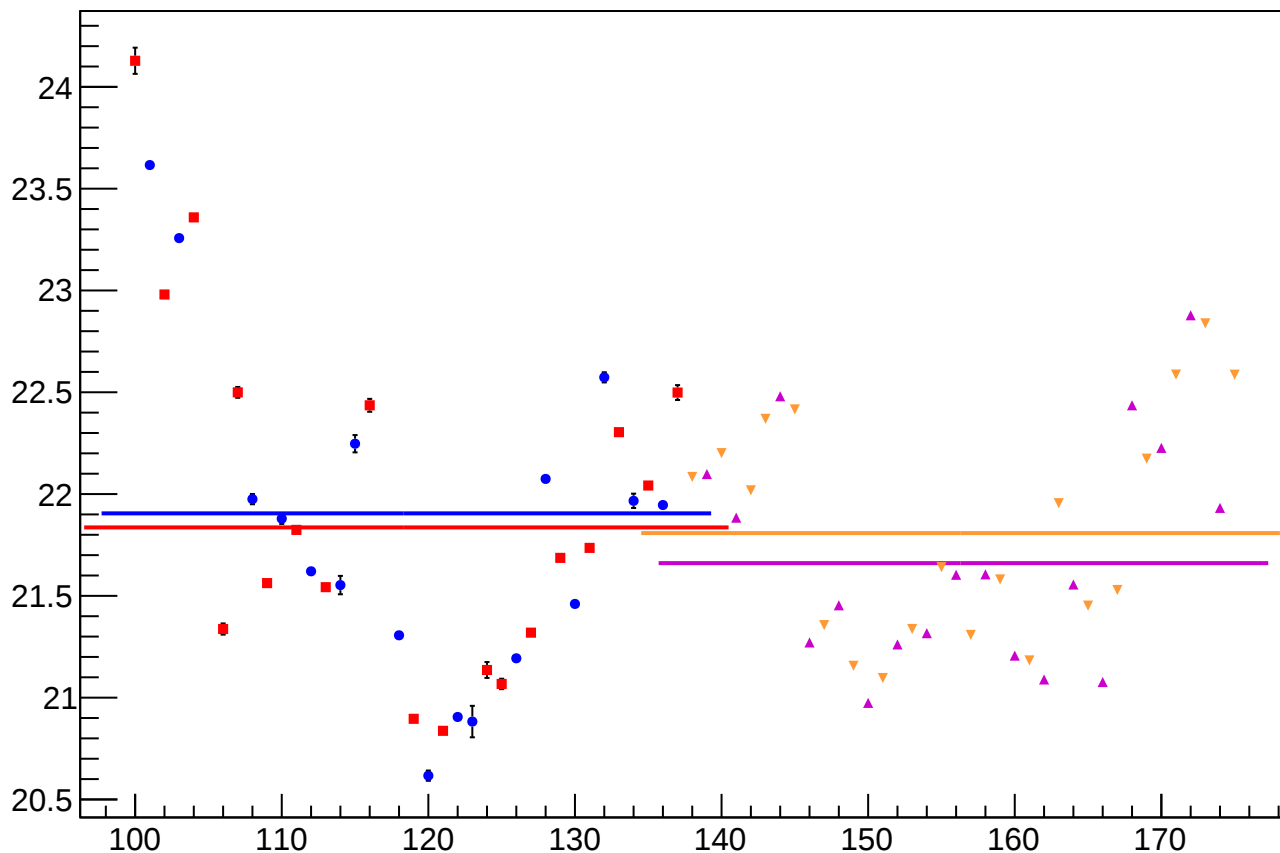
Right: -6.147 ± 5.871 $\chi^2/\text{NDF}: 35.4/35$

In: -6.059 ± 4.785 $\chi^2/\text{NDF}: 33.5/34$

Out: -10.169 ± 4.633 $\chi^2/\text{NDF}: 42.6/38$

All: -8.180 ± 3.328 $\chi^2/\text{NDF}: 76.4/73$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.905 $\pm$ 0.006 χ^2 /NDF: 17794.2/16

Left Out: 21.808 $\pm$ 0.004 χ^2 /NDF:18059.5/19

Right Out: 21.836 $\pm$ 0.006 χ^2 /NDF: 16251.2/18

Left In: 21.661 $\pm$ 0.004 χ^2 /NDF:16556.8/17

Left: 21.737 $\pm$ 0.003 χ^2 /NDF: 35282.3/37

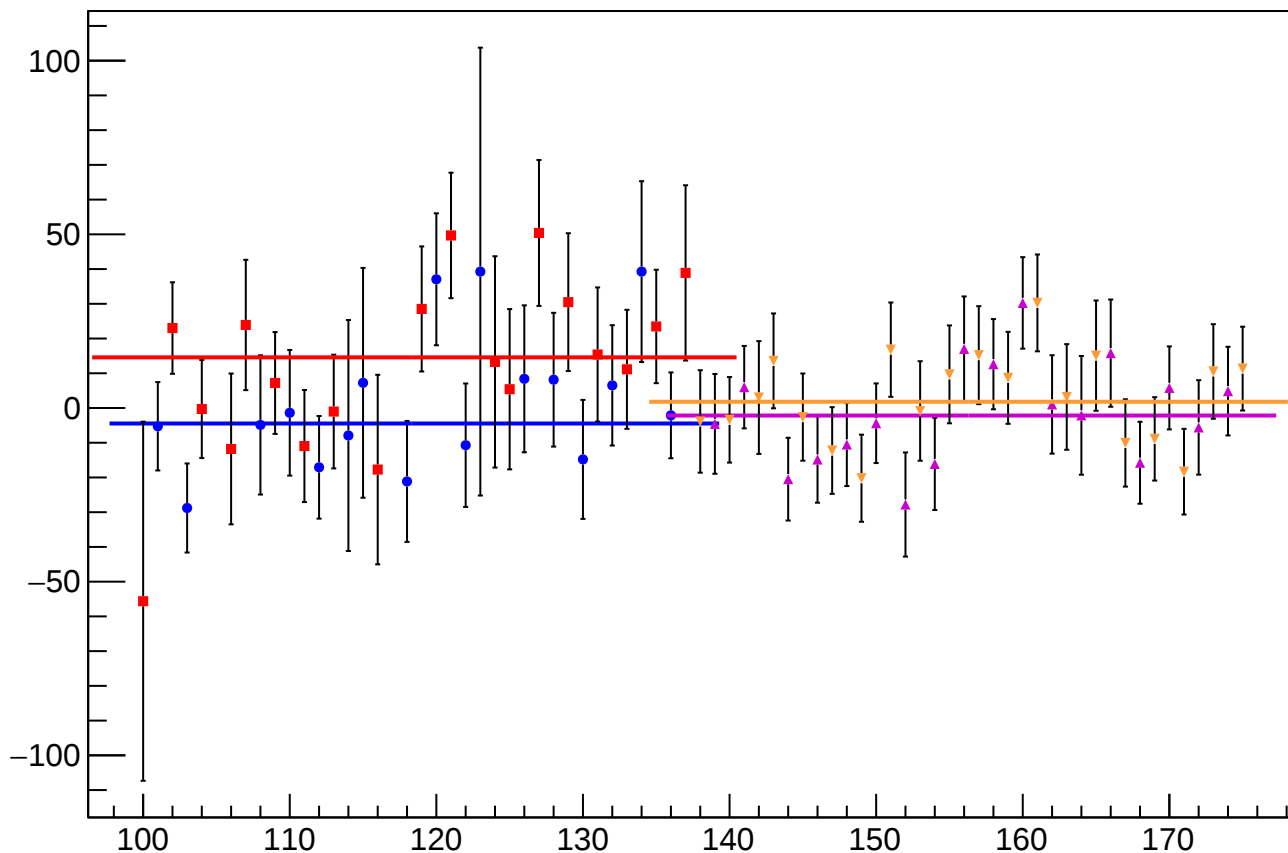
Right: 21.870 $\pm$ 0.004 χ^2 /NDF: 34114.4/35

In: 21.739 $\pm$ 0.003 χ^2 /NDF:35488.5/34

Out: 21.817 $\pm$ 0.003 χ^2 /NDF:34326.5/38

All: 21.780 $\pm$ 0.002 χ^2 /NDF: 70089.5/73

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.461 ± 4.329 χ^2/NDF : 15.2/16

Left Out: 1.801 ± 3.001 χ^2/NDF : 18.5/19

Right Out: 14.579 ± 4.264 χ^2/NDF : 19.5/18

Left In: -2.167 ± 3.092 χ^2/NDF : 21.0/17

Left: -0.124 ± 2.153 χ^2/NDF : 40.3/37

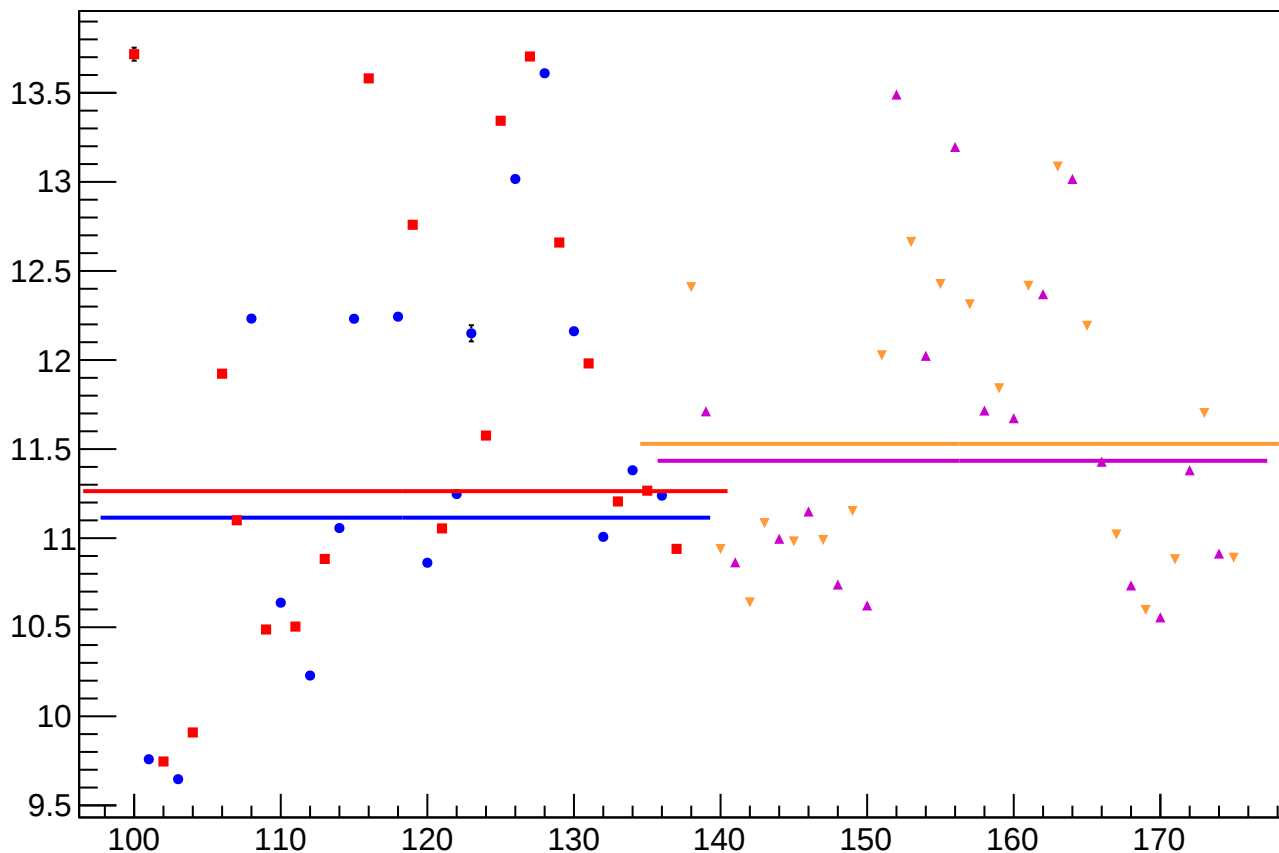
Right: 5.202 ± 3.038 χ^2/NDF : 44.5/35

In: -2.942 ± 2.516 χ^2/NDF : 36.3/34

Out: 6.033 ± 2.454 χ^2/NDF : 44.1/38

All: 1.658 ± 1.757 χ^2/NDF : 86.9/73

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.115 $\pm$ 0.003 χ^2 /NDF: 133059.3/16

Left Out: 11.530 $\pm$ 0.002 χ^2 /NDF:119124.5/19

Right Out: 11.264 $\pm$ 0.003 χ^2 /NDF: 147483.5/18

Left In: 11.434 $\pm$ 0.002 χ^2 /NDF:143321.0/17

Left: 11.483 $\pm$ 0.002 χ^2 /NDF: 263423.1/37

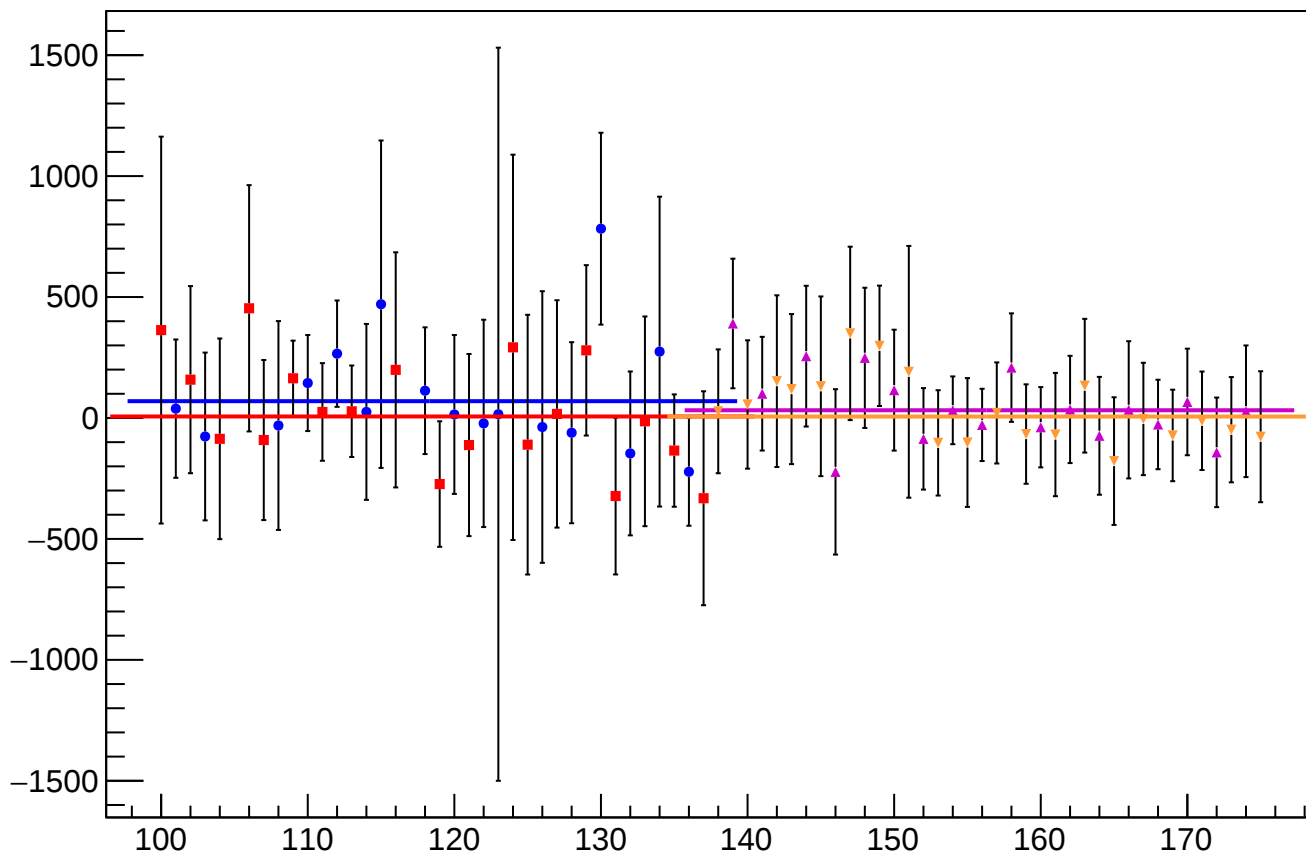
Right: 11.191 $\pm$ 0.002 χ^2 /NDF: 281744.0/35

In: 11.326 $\pm$ 0.002 χ^2 /NDF:283584.2/34

Out: 11.442 $\pm$ 0.002 χ^2 /NDF:271798.6/38

All: 11.385 $\pm$ 0.001 χ^2 /NDF: 557530.2/73

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.470+/-79.231 χ^2/NDF : 7.3/16

Left Out: 5.832+/-56.556 χ^2/NDF : 4.5/19

Right Out: 6.194+/-70.182 χ^2/NDF : 6.5/18

Left In: 31.916+/-50.808 χ^2/NDF : 5.9/17

Left: 20.267+/-37.796 χ^2/NDF : 10.5/37

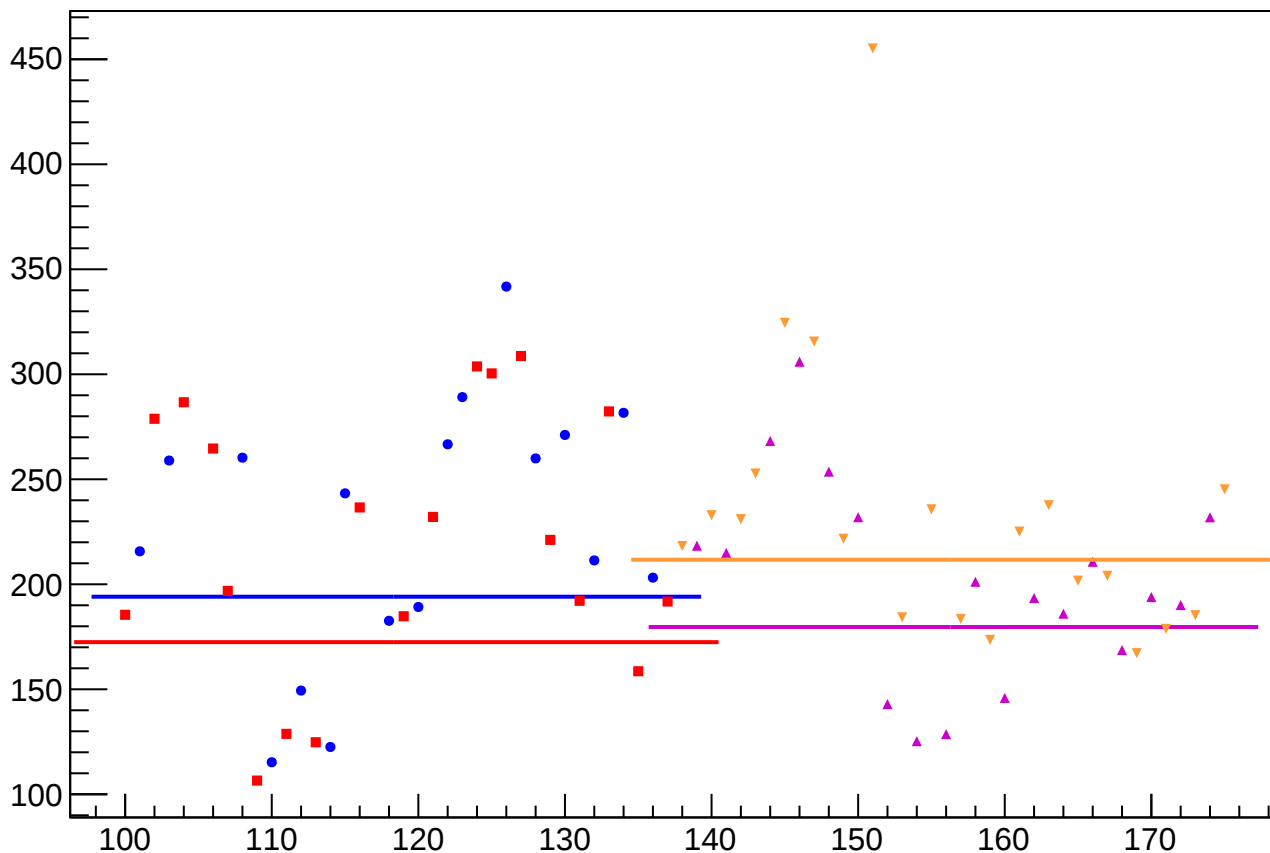
Right: 34.014+/-52.536 χ^2/NDF : 14.1/35

In: 42.859+/-42.769 χ^2/NDF : 13.3/34

Out: 5.974+/-44.037 χ^2/NDF : 11.0/38

All: 24.955+/-30.681 χ^2/NDF : 24.7/73

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.082 $\pm$ 0.056 χ^2 /NDF: 1005395.7/16

Left Out: 211.696 $\pm$ 0.040 χ^2 /NDF:1252864.8/19

Right Out: 172.452 $\pm$ 0.050 χ^2 /NDF: 1569463.1/18

Left In: 179.650 $\pm$ 0.036 χ^2 /NDF:1586262.8/17

Left: 193.962 $\pm$ 0.027 χ^2 /NDF: 3194464.7/37

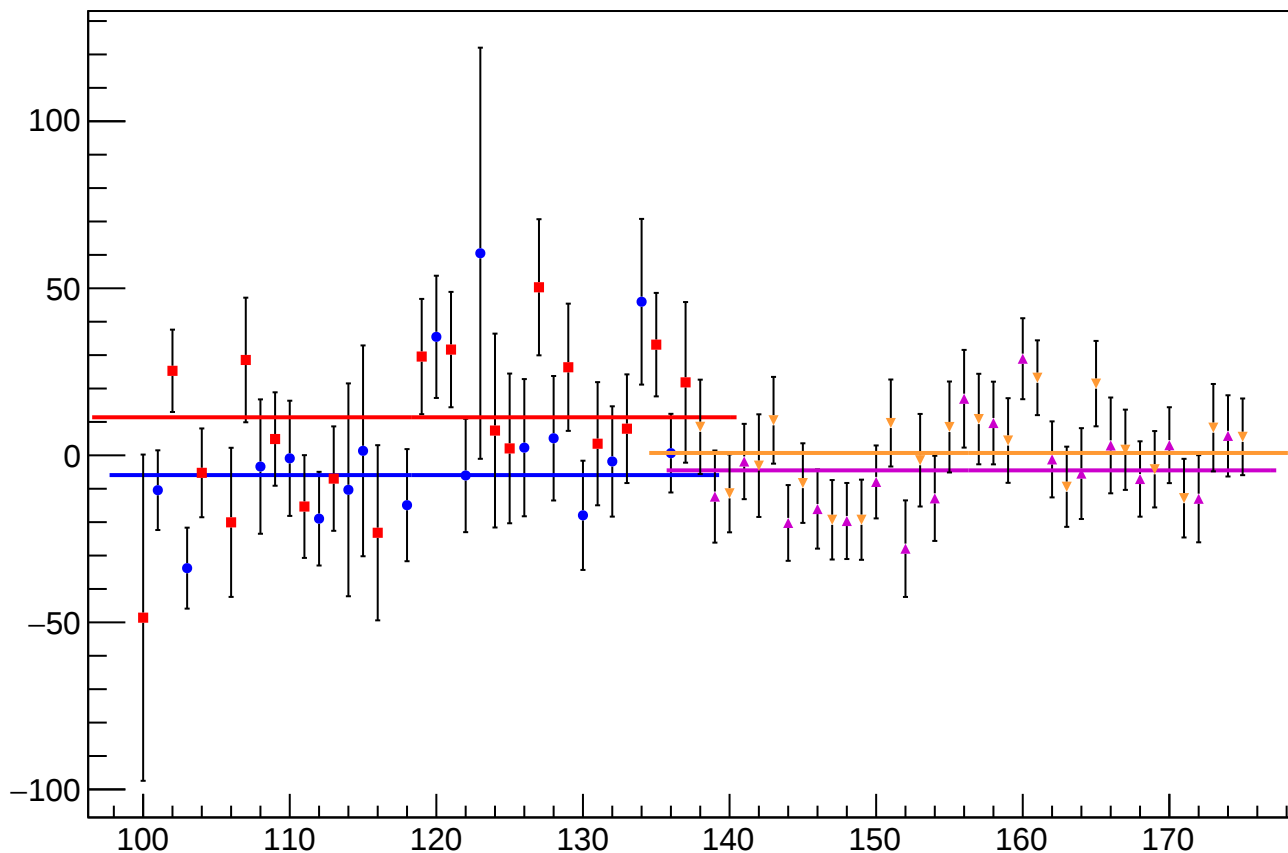
Right: 181.961 $\pm$ 0.037 χ^2 /NDF: 2658380.0/35

In: 183.855 $\pm$ 0.030 χ^2 /NDF:2638677.1/34

Out: 196.245 $\pm$ 0.031 χ^2 /NDF:3201465.9/38

All: 189.869 $\pm$ 0.022 χ^2 /NDF: 5921610.7/73

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.912 ± 4.133 χ^2/NDF : 18.8/16

Left Out: 0.711 ± 2.795 χ^2/NDF : 19.1/19

Right Out: 11.391 ± 4.079 χ^2/NDF : 22.9/18

Left In: -4.499 ± 2.895 χ^2/NDF : 21.3/17

Left: -1.803 ± 2.011 χ^2/NDF : 42.0/37

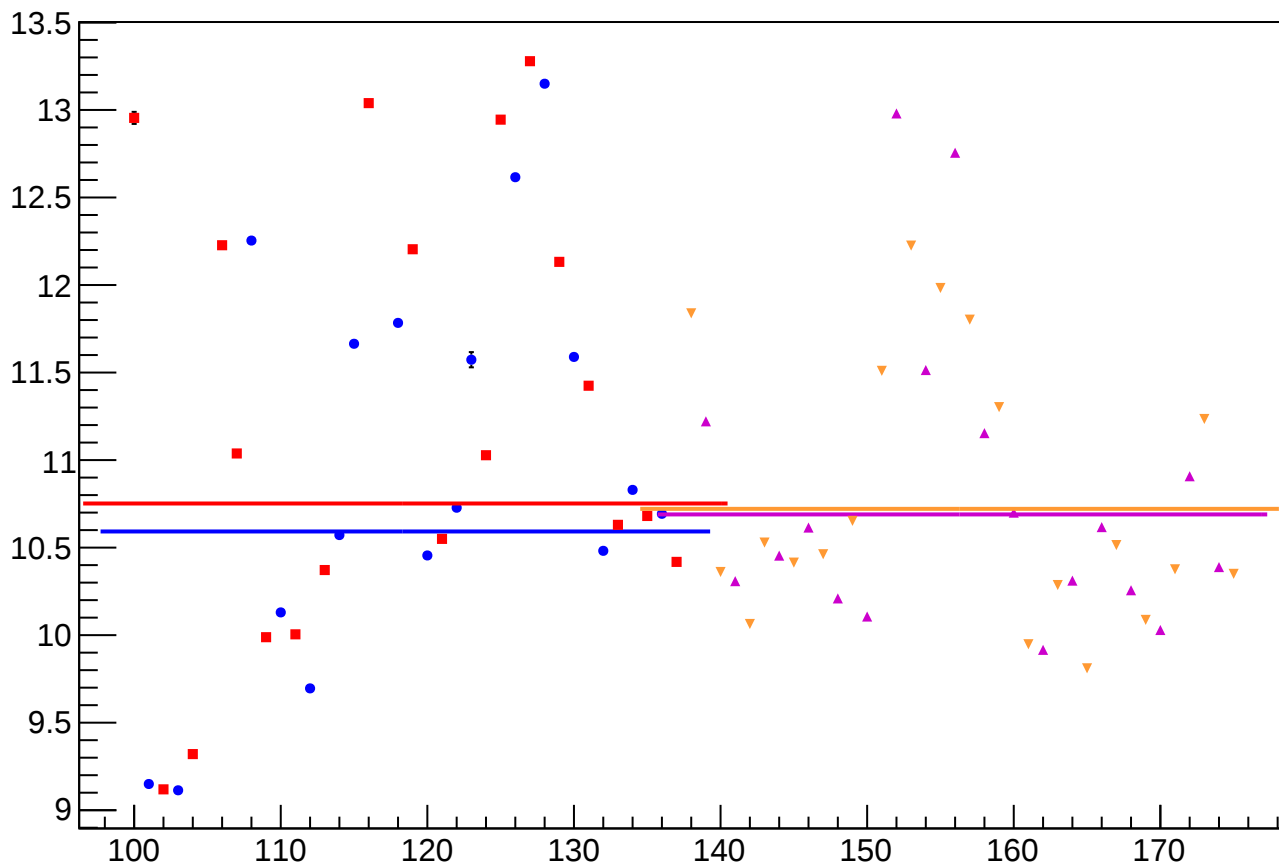
Right: 2.855 ± 2.903 χ^2/NDF : 50.6/35

In: -4.964 ± 2.371 χ^2/NDF : 40.2/34

Out: 4.123 ± 2.305 χ^2/NDF : 46.6/38

All: -0.293 ± 1.653 χ^2/NDF : 94.3/73

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.592 $\pm$ 0.003 χ^2 /NDF: 160397.9/16

Left Out: 10.721 $\pm$ 0.002 χ^2 /NDF:121866.8/19

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 176895.3/18

Left In: 10.690 $\pm$ 0.002 χ^2 /NDF:139132.4/17

Left: 10.706 $\pm$ 0.001 χ^2 /NDF: 261124.4/37

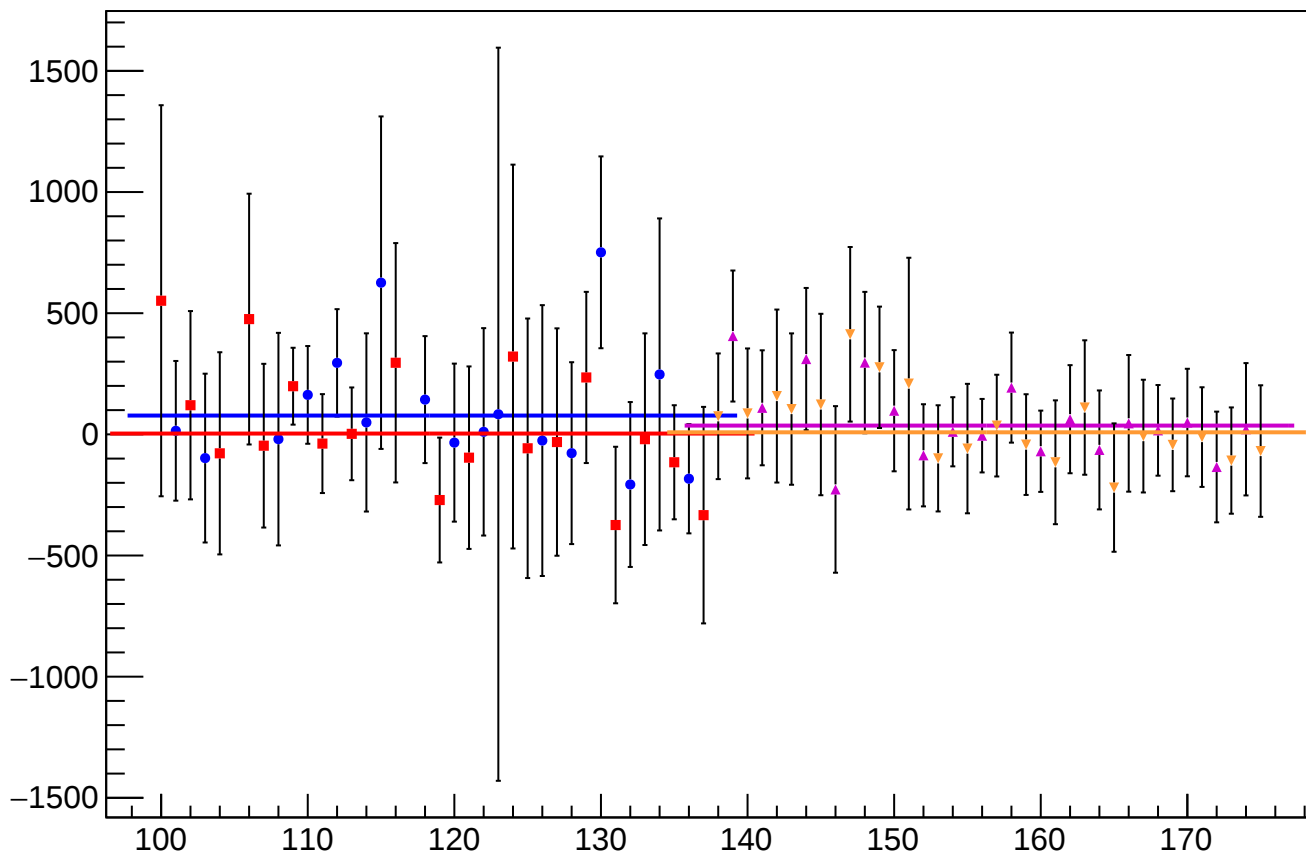
Right: 10.673 $\pm$ 0.002 χ^2 /NDF: 338807.3/35

In: 10.658 $\pm$ 0.002 χ^2 /NDF:300274.8/34

Out: 10.731 $\pm$ 0.002 χ^2 /NDF:298838.6/38

All: 10.695 $\pm$ 0.001 χ^2 /NDF: 600105.2/73

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 77.589 $\pm$ 79.751 χ^2 /NDF: 7.6/16

Left Out: 8.432 $\pm$ 56.939 χ^2 /NDF:5.0/19

Right Out: 3.305 $\pm$ 70.855 χ^2 /NDF: 7.4/18

Left In: 36.183 $\pm$ 51.297 χ^2 /NDF:6.4/17

Left: 23.750 $\pm$ 38.112 χ^2 /NDF: 11.5/37

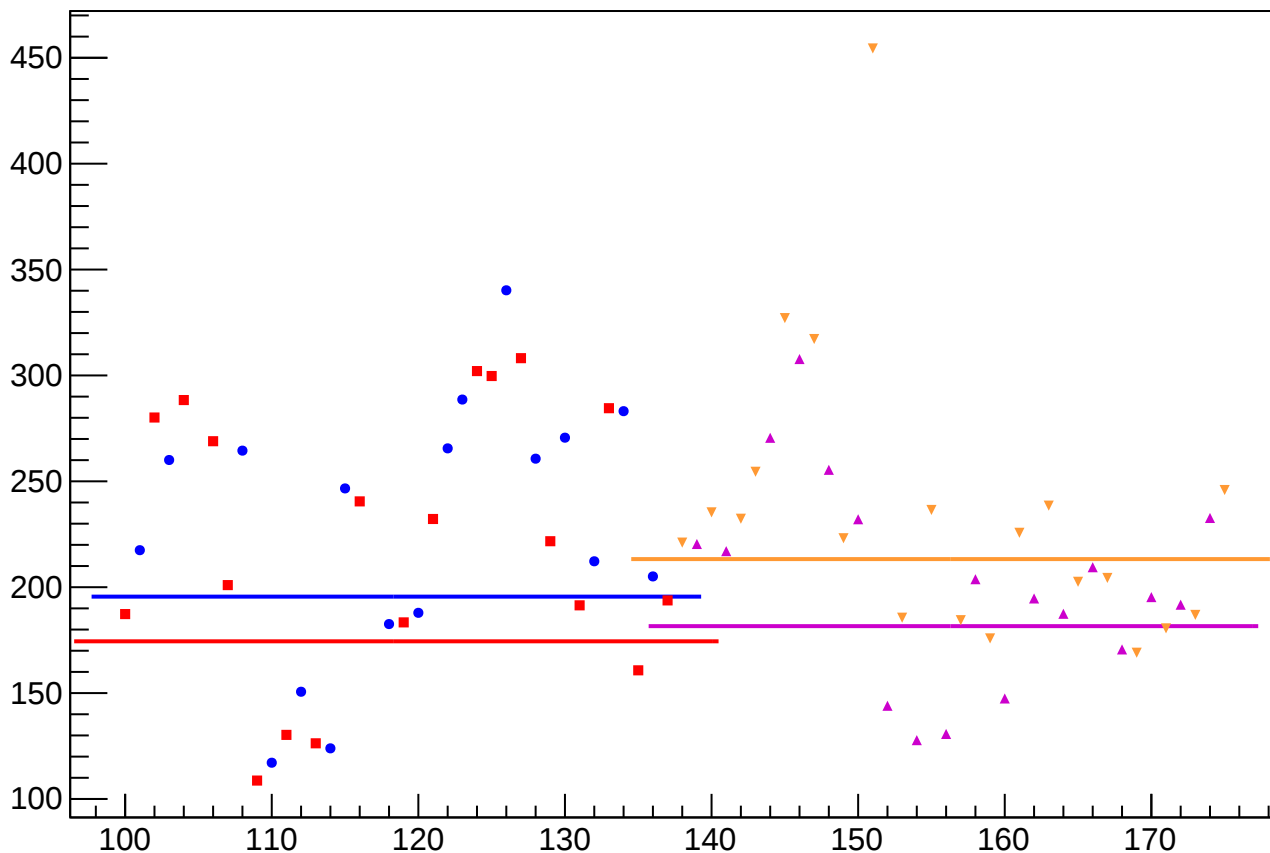
Right: 36.075 $\pm$ 52.969 χ^2 /NDF: 15.4/35

In: 48.301 $\pm$ 43.143 χ^2 /NDF:14.1/34

Out: 6.420 $\pm$ 44.384 χ^2 /NDF:12.4/38

All: 27.954 $\pm$ 30.936 χ^2 /NDF: 26.9/73

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.551 $\pm$ 0.056 χ^2 /NDF: 979937.7/16

Left Out: 213.273 $\pm$ 0.040 χ^2 /NDF:1233804.1/19

Right Out: 174.449 $\pm$ 0.050 χ^2 /NDF: 1528629.1/18

Left In: 181.615 $\pm$ 0.036 χ^2 /NDF:1539878.0/17

Left: 195.798 $\pm$ 0.027 χ^2 /NDF: 3114965.3/37

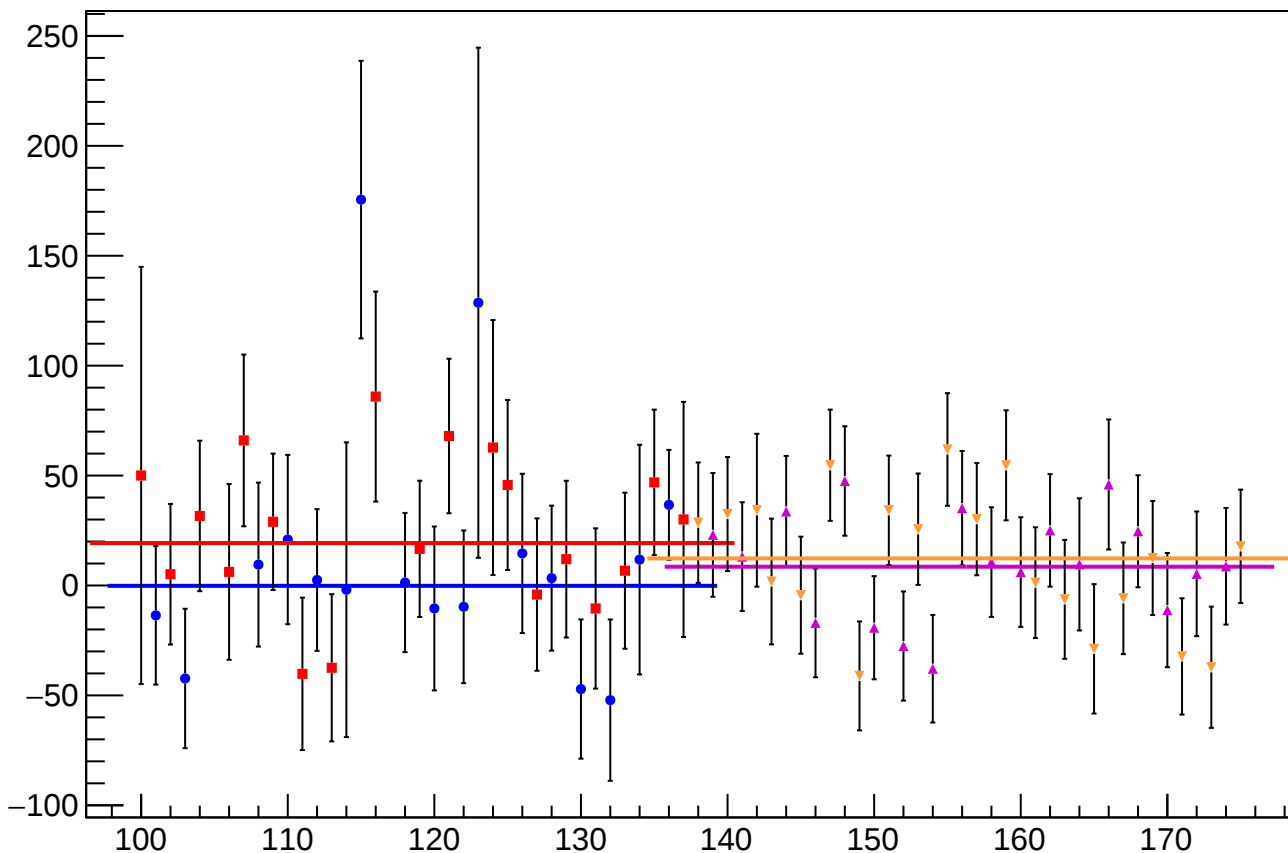
Right: 183.758 $\pm$ 0.037 χ^2 /NDF: 2586820.6/35

In: 185.693 $\pm$ 0.031 χ^2 /NDF:2563016.8/34

Out: 198.039 $\pm$ 0.031 χ^2 /NDF:3127285.5/38

All: 191.691 $\pm$ 0.022 χ^2 /NDF: 5769870.9/73

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: 12.332 ± 5.905 χ^2/NDF : 26.7/19

Right Out: 19.316 ± 8.554 χ^2/NDF : 14.8/18

Left In: 8.537 ± 6.089 χ^2/NDF : 16.0/17

Left: 10.493 ± 4.239 χ^2/NDF : 42.9/37

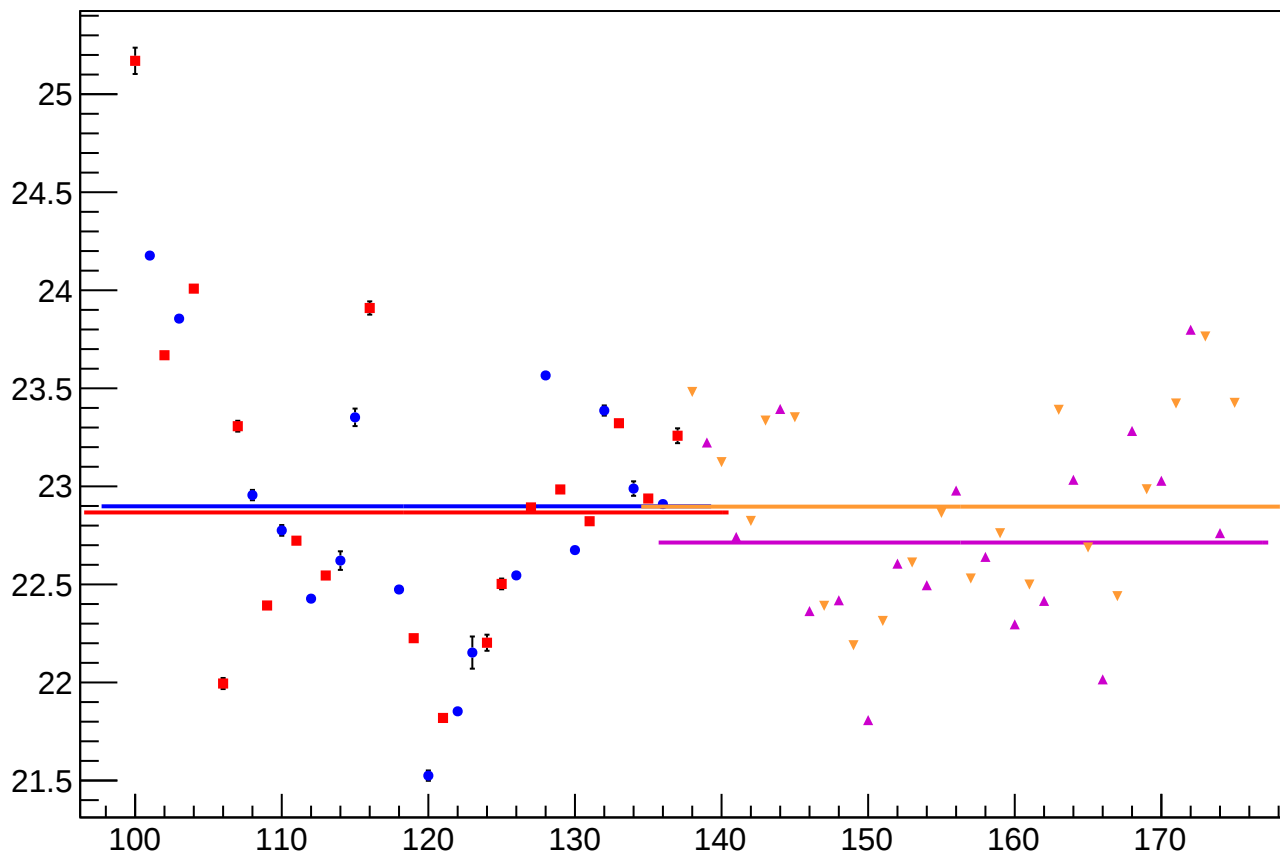
Right: 9.884 ± 6.142 χ^2/NDF : 35.4/35

In: 5.733 ± 5.012 χ^2/NDF : 34.7/34

Out: 14.587 ± 4.860 χ^2/NDF : 42.0/38

All: 10.296 ± 3.489 χ^2/NDF : 78.3/73

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.898 $\pm$ 0.006 χ^2 /NDF: 12143.3/16

Left Out: 22.897 $\pm$ 0.004 χ^2 /NDF:11925.3/19

Right Out: 22.867 $\pm$ 0.006 χ^2 /NDF: 11048.4/18

Left In: 22.714 $\pm$ 0.004 χ^2 /NDF:12592.6/17

Left: 22.808 $\pm$ 0.003 χ^2 /NDF: 25450.1/37

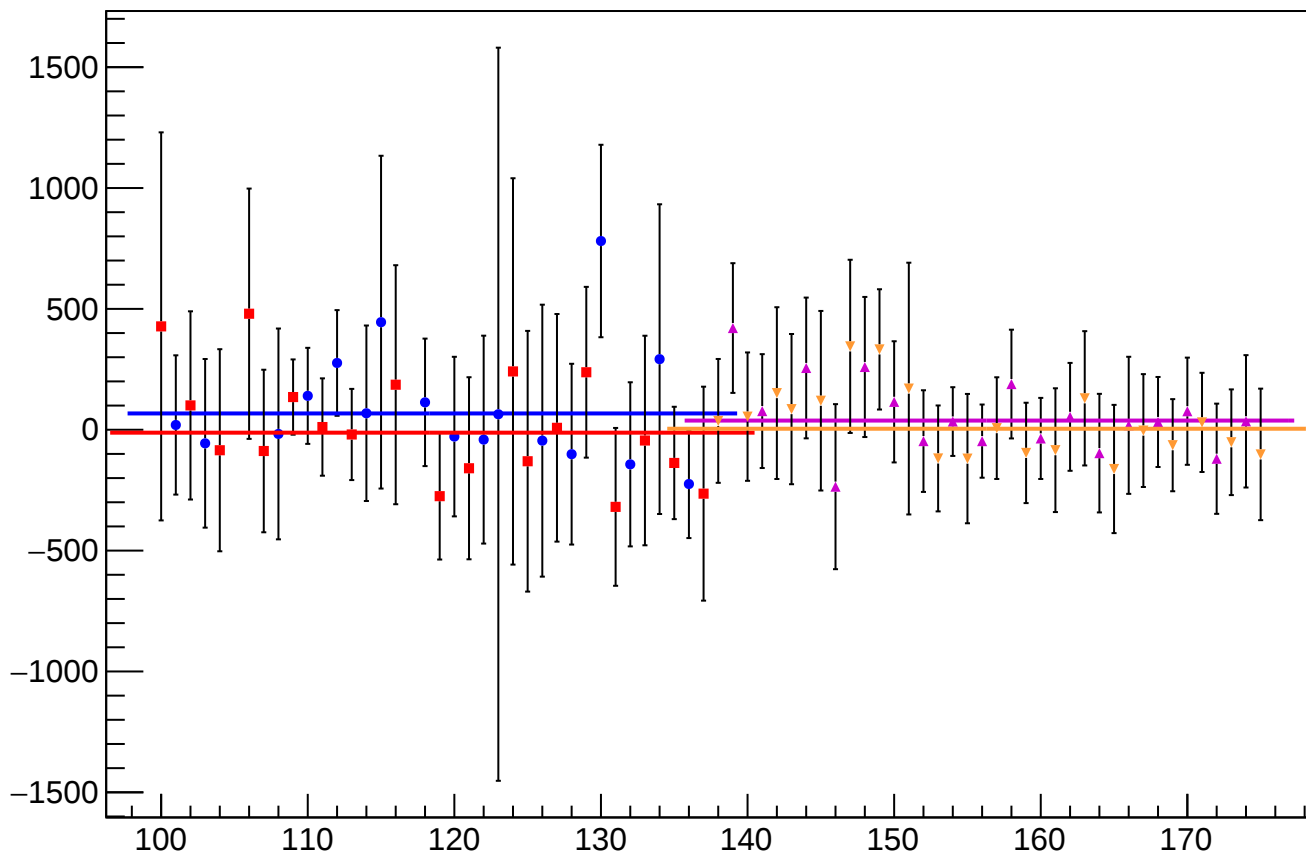
Right: 22.882 $\pm$ 0.004 χ^2 /NDF: 23204.7/35

In: 22.773 $\pm$ 0.004 χ^2 /NDF:25329.9/34

Out: 22.887 $\pm$ 0.003 χ^2 /NDF:22990.0/38

All: 22.832 $\pm$ 0.002 χ^2 /NDF: 48852.9/73

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.449 $\pm$ 79.404 χ^2 /NDF: 7.4/16

Left Out: 4.145 $\pm$ 56.827 χ^2 /NDF:5.0/19

Right Out: -12.117 $\pm$ 70.355 χ^2 /NDF: 5.8/18

Left In: 37.974 $\pm$ 51.164 χ^2 /NDF:5.9/17

Left: 22.829 $\pm$ 38.023 χ^2 /NDF: 11.1/37

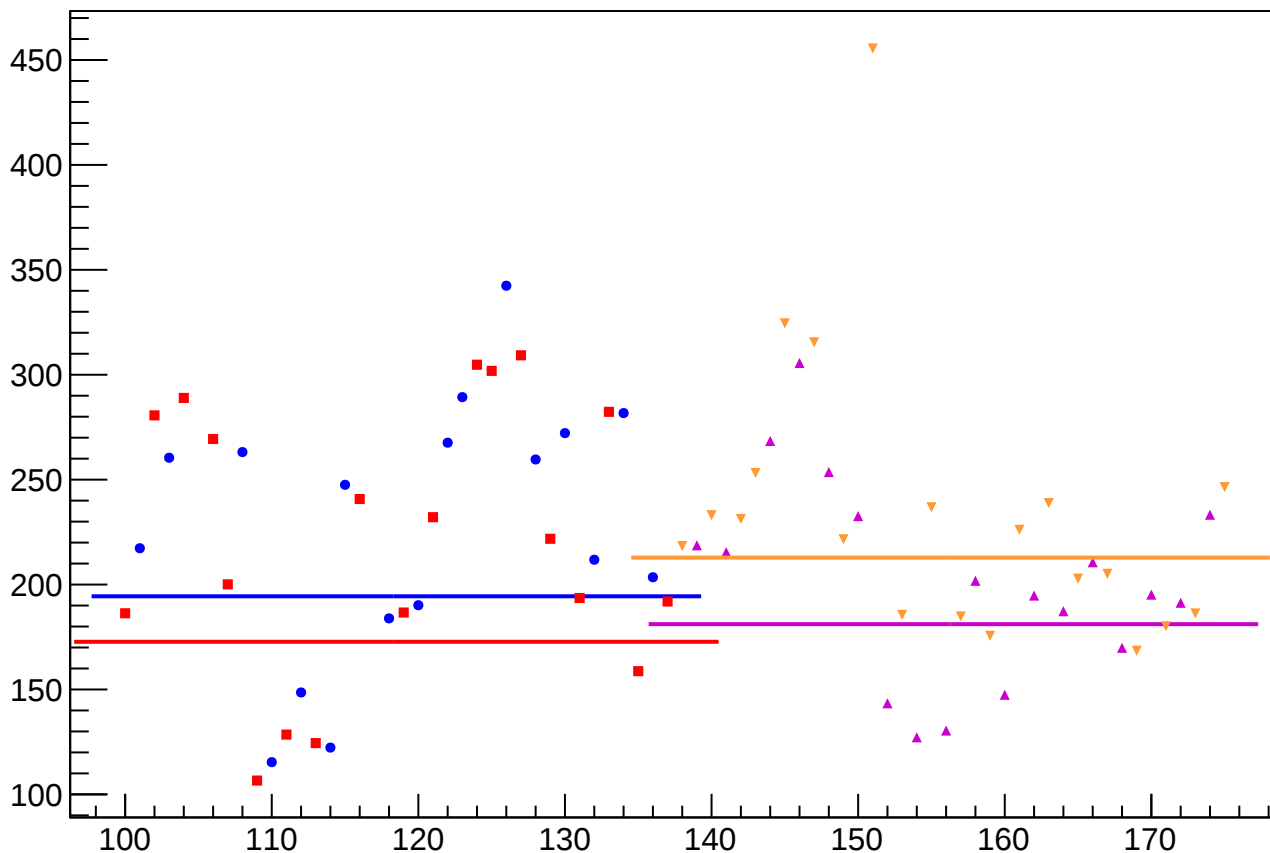
Right: 22.875 $\pm$ 52.659 χ^2 /NDF: 13.7/35

In: 46.621 $\pm$ 43.009 χ^2 /NDF:13.4/34

Out: -2.276 $\pm$ 44.208 χ^2 /NDF:10.8/38

All: 22.845 $\pm$ 30.827 χ^2 /NDF: 24.8/73

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.411 $\pm$ 0.056 χ^2 /NDF: 1019913.2/16

Left Out: 212.847 $\pm$ 0.040 χ^2 /NDF:1227399.4/19

Right Out: 172.730 $\pm$ 0.050 χ^2 /NDF: 1596758.0/18

Left In: 181.128 $\pm$ 0.036 χ^2 /NDF:1532853.9/17

Left: 195.328 $\pm$ 0.027 χ^2 /NDF: 3104395.8/37

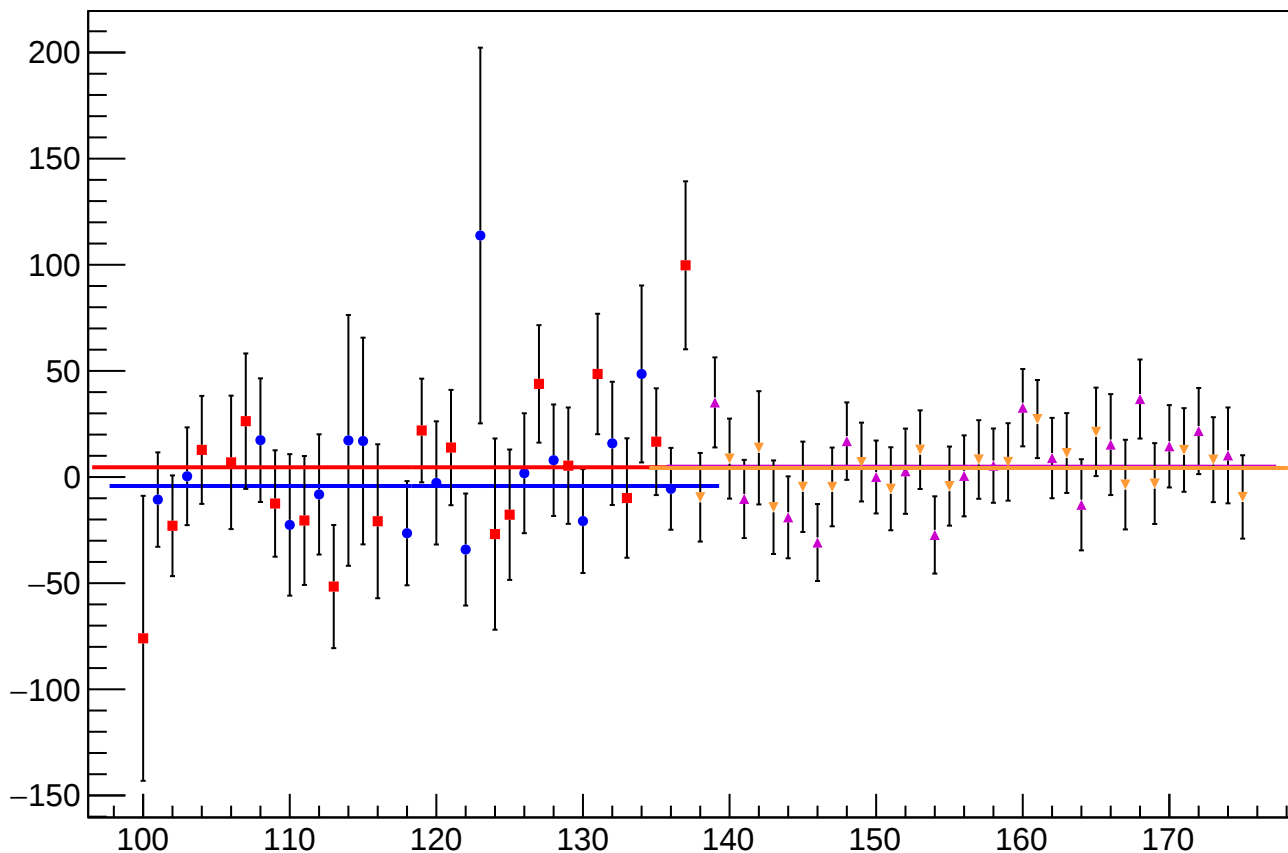
Right: 182.265 $\pm$ 0.037 χ^2 /NDF: 2700196.8/35

In: 185.024 $\pm$ 0.030 χ^2 /NDF:2592314.5/34

Out: 197.008 $\pm$ 0.031 χ^2 /NDF:3217680.2/38

All: 190.851 $\pm$ 0.022 χ^2 /NDF: 5885493.7/73

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 6.871 χ^2/NDF : 8.0/16

Left Out: 4.261 ± 4.399 χ^2/NDF : 5.9/19

Right Out: 4.599 ± 6.725 χ^2/NDF : 21.1/18

Left In: 4.879 ± 4.542 χ^2/NDF : 19.0/17

Left: 4.561 ± 3.160 χ^2/NDF : 24.9/37

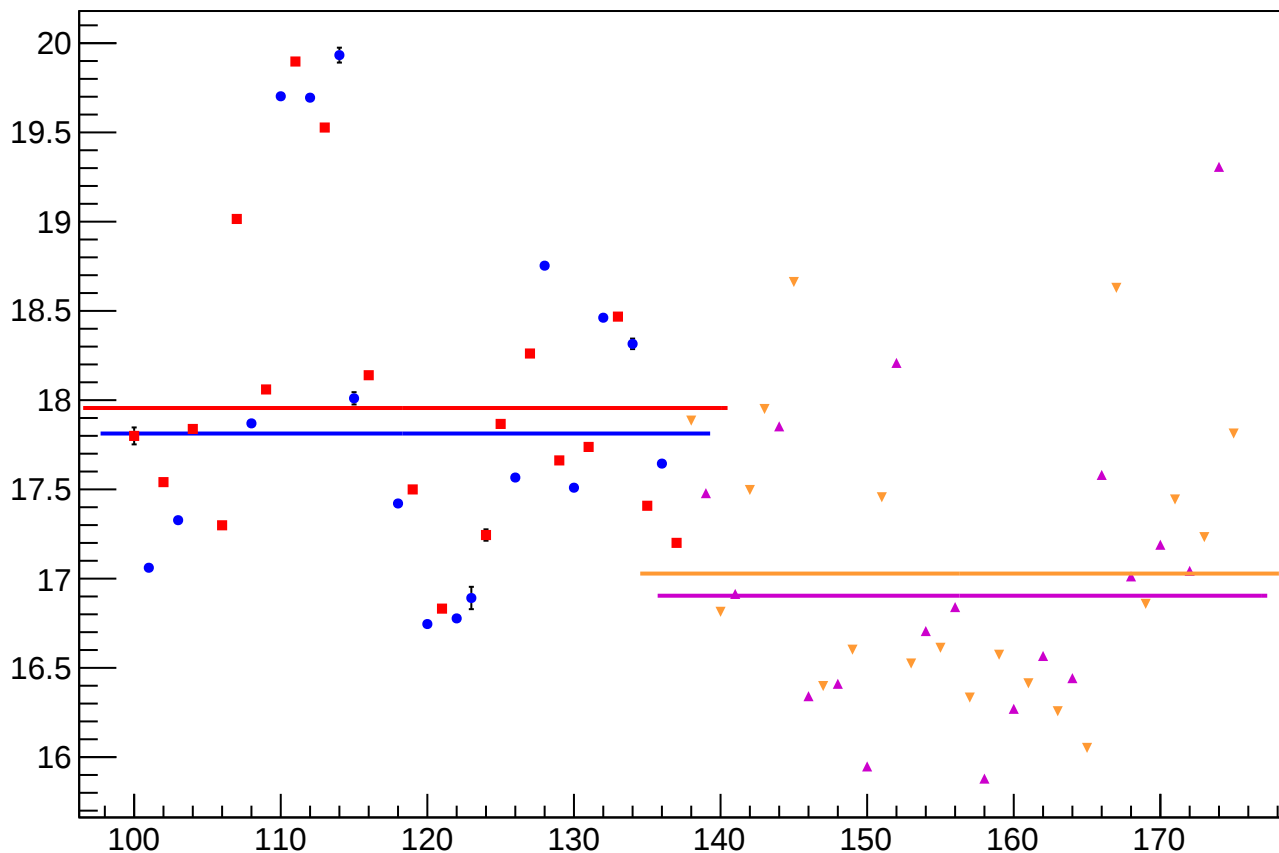
Right: 0.283 ± 4.806 χ^2/NDF : 29.9/35

In: 2.112 ± 3.789 χ^2/NDF : 28.2/34

Out: 4.363 ± 3.681 χ^2/NDF : 27.0/38

All: 3.270 ± 2.640 χ^2/NDF : 55.4/73

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.813 $\pm$ 0.005 χ^2 /NDF: 32034.8/16

Left Out: 17.028 $\pm$ 0.003 χ^2 /NDF: 56305.5/19

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25445.3/18

Left In: 16.904 $\pm$ 0.003 χ^2 /NDF: 60291.1/17

Left: 16.968 $\pm$ 0.002 χ^2 /NDF: 117366.9/37

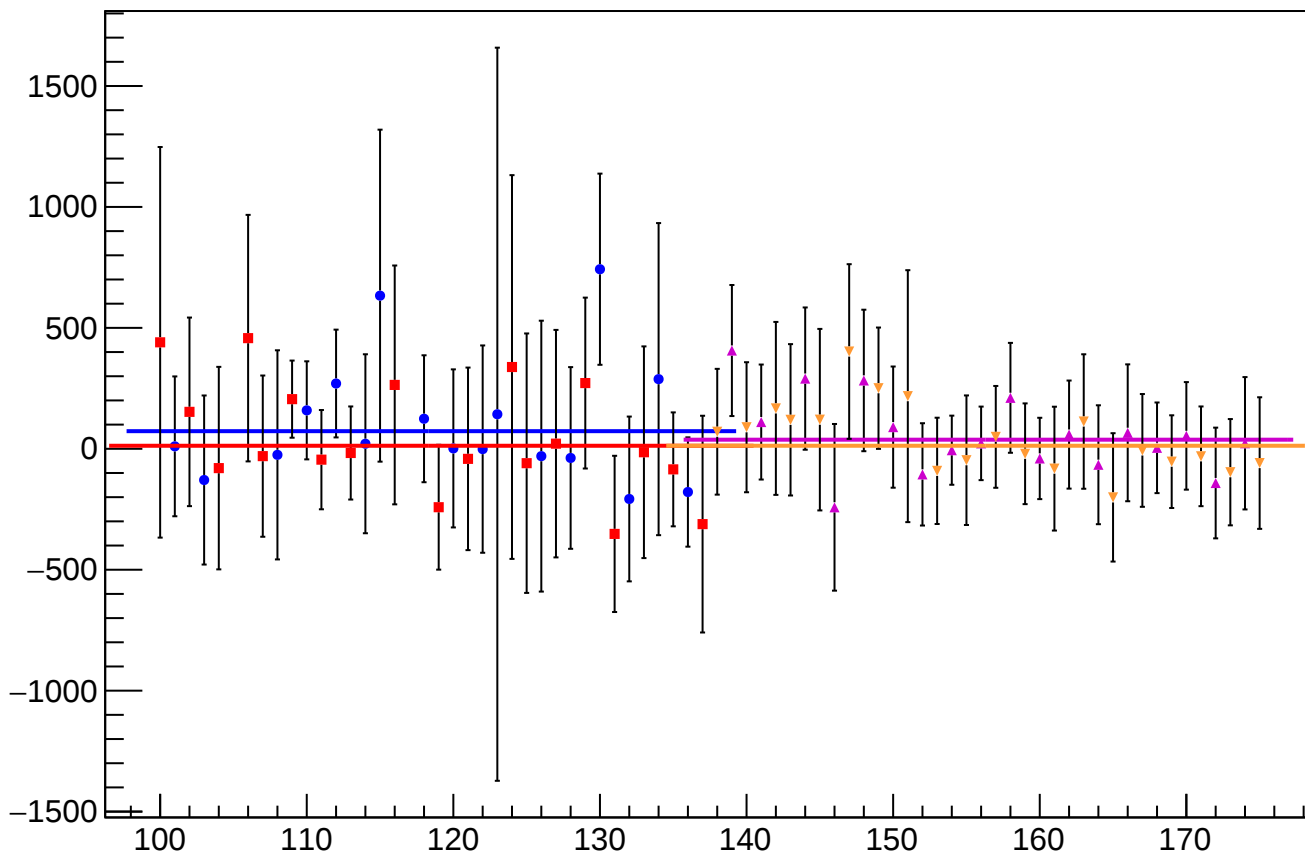
Right: 17.886 $\pm$ 0.003 χ^2 /NDF: 57922.3/35

In: 17.181 $\pm$ 0.003 χ^2 /NDF: 116669.1/34

Out: 17.306 $\pm$ 0.003 χ^2 /NDF: 108398.4/38

All: 17.245 $\pm$ 0.002 χ^2 /NDF: 226201.1/73

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 72.888+/-79.948 χ^2/NDF : 7.2/16

Left Out: 12.628+/-57.066 χ^2/NDF : 4.5/19

Right Out: 12.565+/-71.013 χ^2/NDF : 6.7/18

Left In: 37.667+/-51.401 χ^2/NDF : 6.3/17

Left: 26.452+/-38.192 χ^2/NDF : 10.9/37

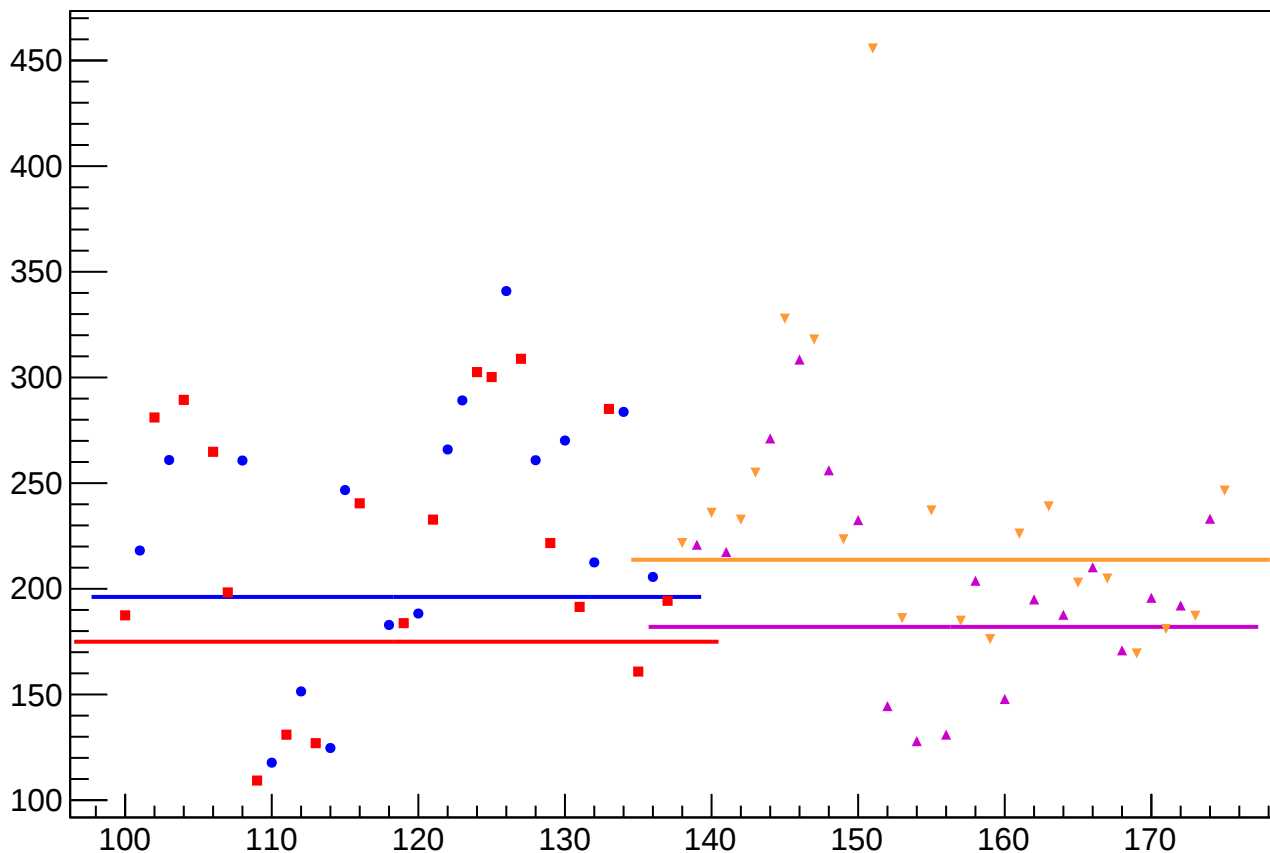
Right: 39.168+/-53.093 χ^2/NDF : 14.3/35

In: 47.968+/-43.236 χ^2/NDF : 13.6/34

Out: 12.603+/-44.483 χ^2/NDF : 11.2/38

All: 30.788+/-31.004 χ^2/NDF : 25.2/73

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.151 $\pm$ 0.057 χ^2 /NDF: 964998.4/16

Left Out: 213.744 $\pm$ 0.040 χ^2 /NDF:1234049.5/19

Right Out: 174.965 $\pm$ 0.050 χ^2 /NDF: 1510956.5/18

Left In: 181.982 $\pm$ 0.036 χ^2 /NDF:1539608.5/17

Left: 196.209 $\pm$ 0.027 χ^2 /NDF: 3115725.4/37

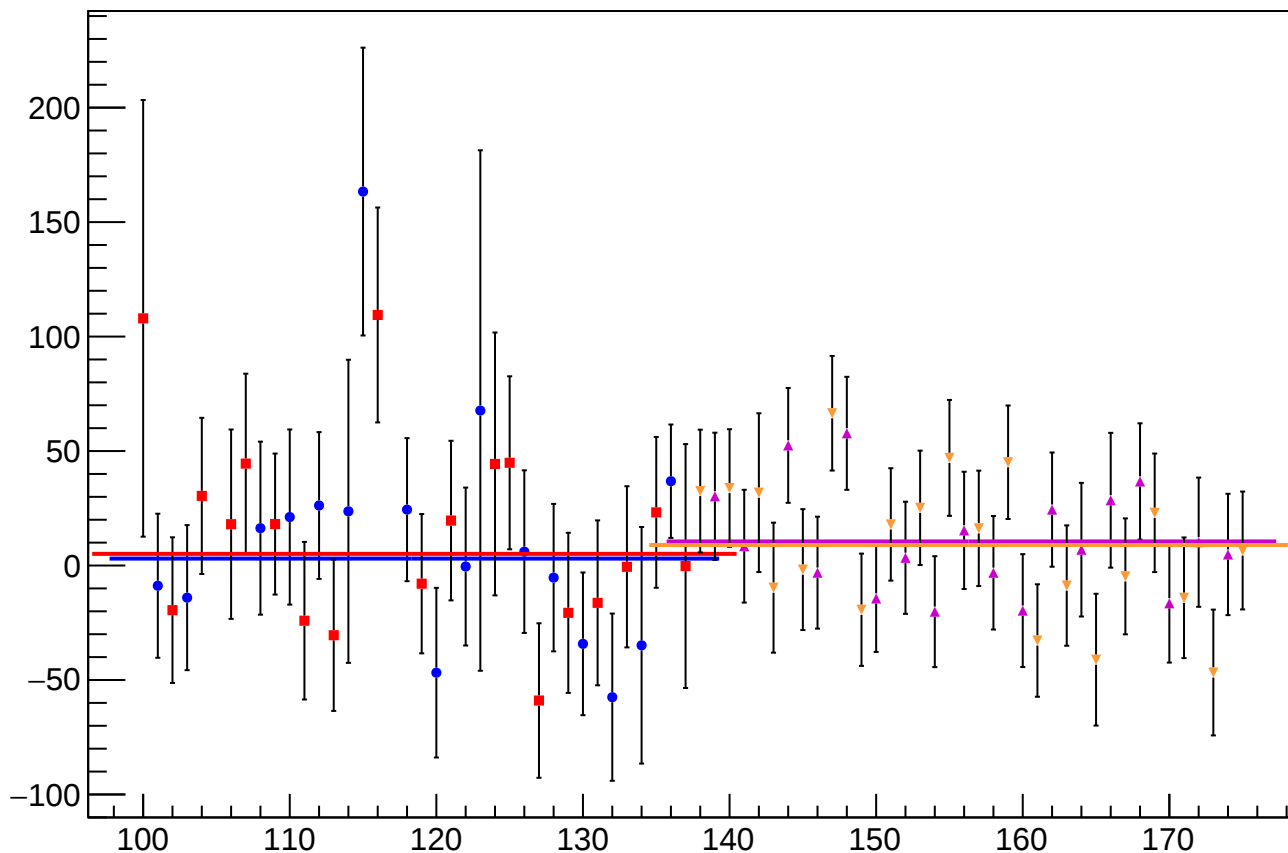
Right: 184.308 $\pm$ 0.038 χ^2 /NDF: 2554463.3/35

In: 186.126 $\pm$ 0.031 χ^2 /NDF:2549053.7/34

Out: 198.528 $\pm$ 0.031 χ^2 /NDF:3107410.1/38

All: 192.151 $\pm$ 0.022 χ^2 /NDF: 5736406.2/73

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.022 ± 8.751 $\chi^2/\text{NDF}: 17.2/16$

Left Out: 8.970 ± 5.839 $\chi^2/\text{NDF}: 26.2/19$

Right Out: 5.092 ± 8.477 $\chi^2/\text{NDF}: 17.2/18$

Left In: 10.519 ± 6.030 $\chi^2/\text{NDF}: 14.8/17$

Left: 9.720 ± 4.195 $\chi^2/\text{NDF}: 41.1/37$

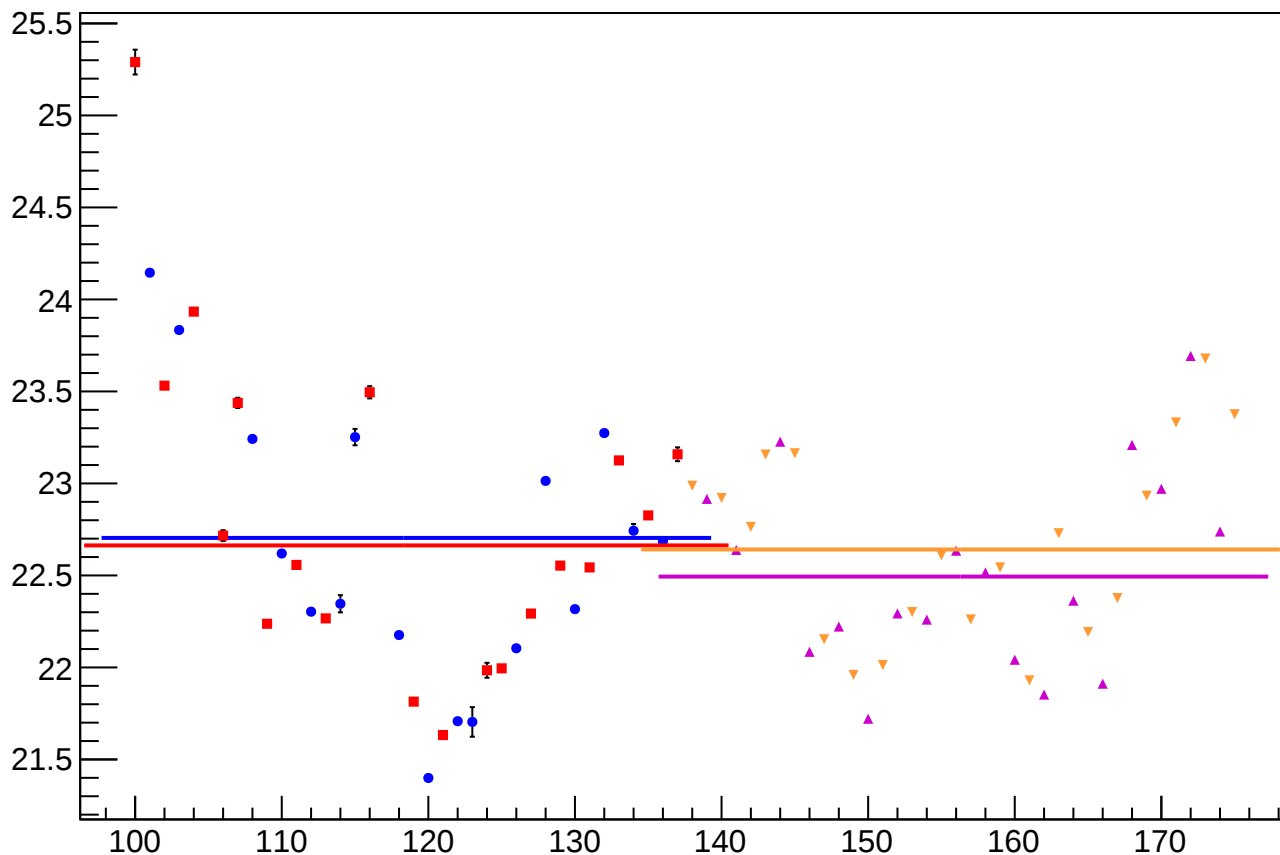
Right: 4.090 ± 6.089 $\chi^2/\text{NDF}: 34.4/35$

In: 8.106 ± 4.965 $\chi^2/\text{NDF}: 32.5/34$

Out: 7.722 ± 4.809 $\chi^2/\text{NDF}: 43.5/38$

All: 7.908 ± 3.454 $\chi^2/\text{NDF}: 76.1/73$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.704 $\pm$ 0.006 χ^2 /NDF: 14105.8/16

Left Out: 22.641 $\pm$ 0.004 χ^2 /NDF:15028.3/19

Right Out: 22.663 $\pm$ 0.006 χ^2 /NDF: 12943.4/18

Left In: 22.494 $\pm$ 0.004 χ^2 /NDF:14473.4/17

Left: 22.570 $\pm$ 0.003 χ^2 /NDF: 30118.0/37

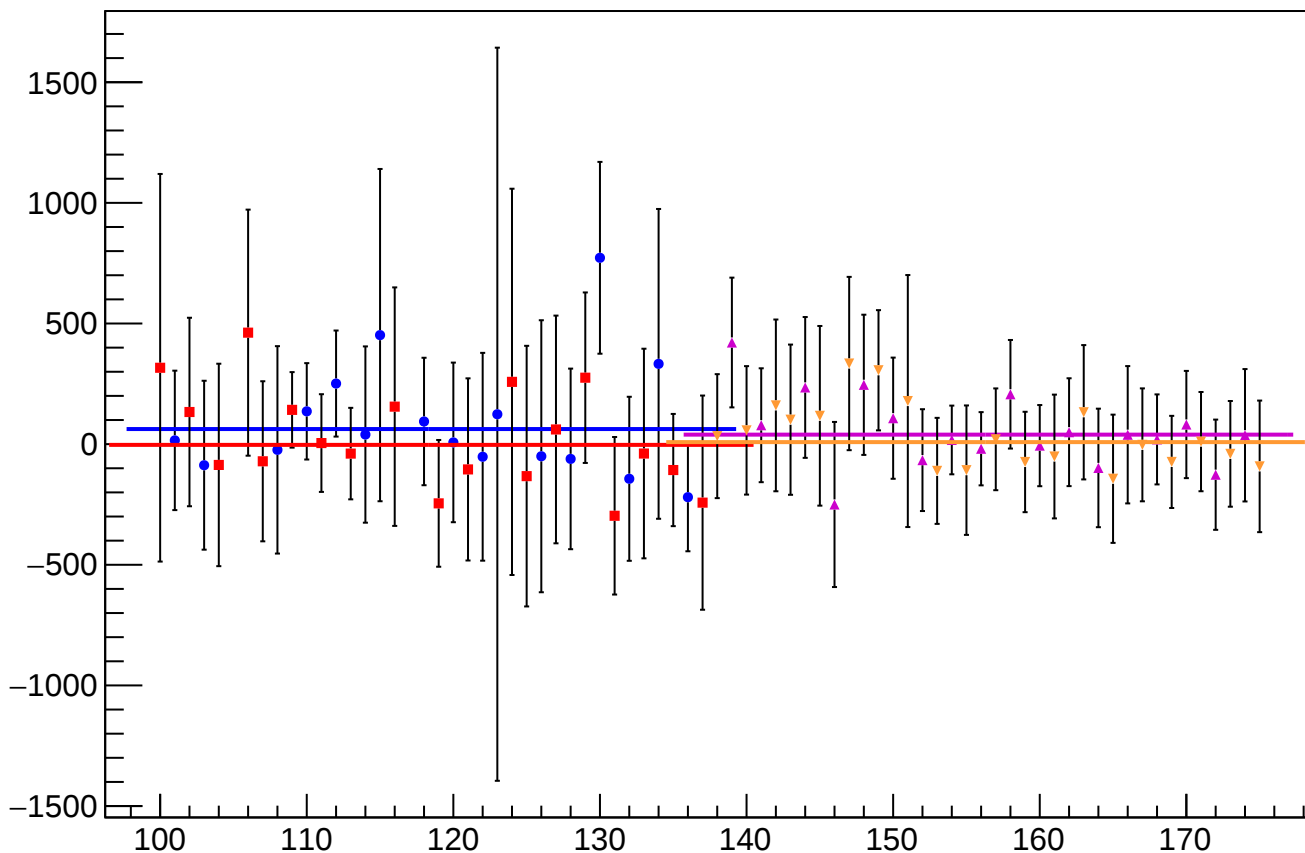
Right: 22.683 $\pm$ 0.004 χ^2 /NDF: 27071.5/35

In: 22.561 $\pm$ 0.004 χ^2 /NDF:29360.7/34

Out: 22.648 $\pm$ 0.003 χ^2 /NDF:27980.9/38

All: 22.606 $\pm$ 0.002 χ^2 /NDF: 57657.0/73

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 62.573+/-79.605 χ^2/NDF : 7.0/16

Left Out: 8.393+/-56.953 χ^2/NDF : 4.4/19

Right Out: -3.038+/-70.518 χ^2/NDF : 5.2/18

Left In: 39.402+/-51.267 χ^2/NDF : 5.7/17

Left: 25.523+/-38.104 χ^2/NDF : 10.2/37

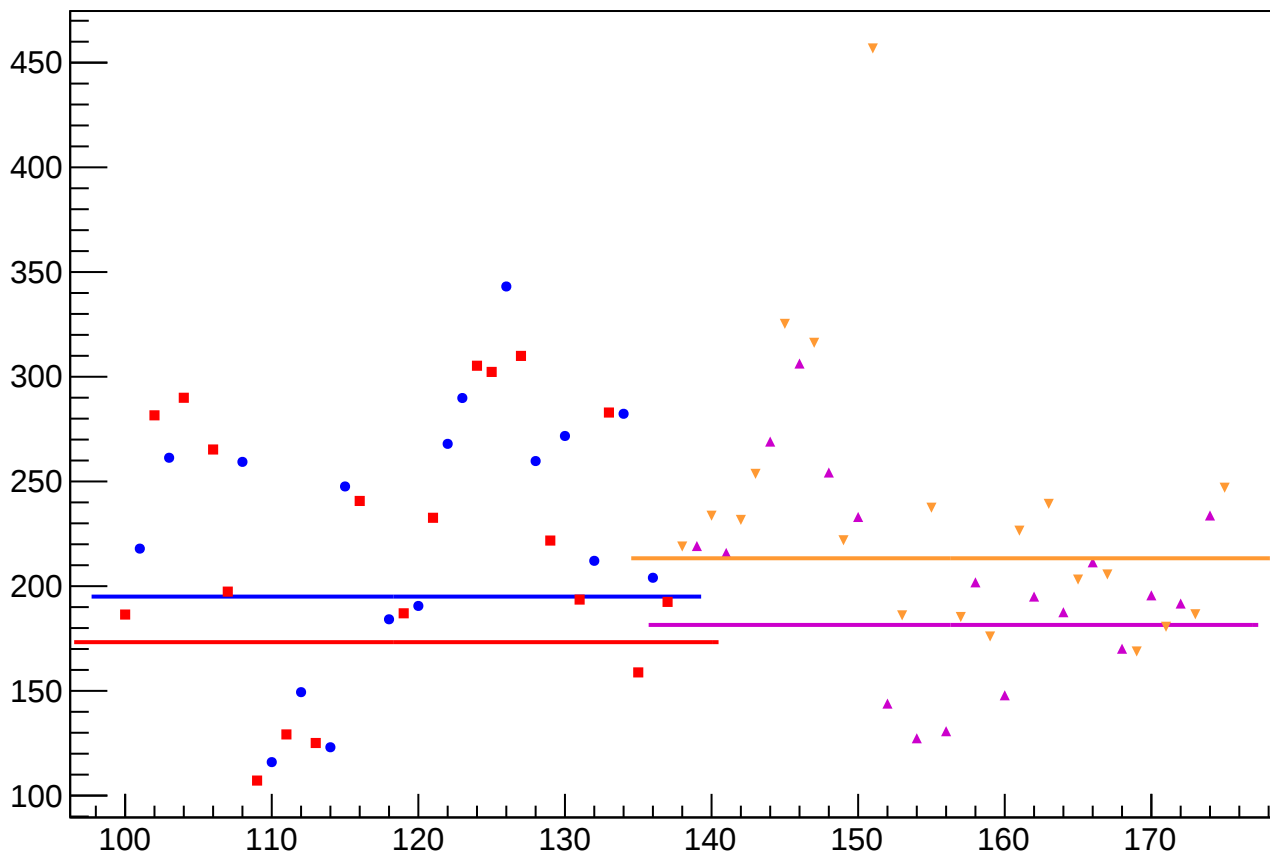
Right: 25.811+/-52.785 χ^2/NDF : 12.6/35

In: 46.195+/-43.102 χ^2/NDF : 12.8/34

Out: 3.881+/-44.307 χ^2/NDF : 9.6/38

All: 25.621+/-30.895 χ^2/NDF : 22.9/73

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.022 $\pm$ 0.056 χ^2 /NDF: 1004284.9/16

Left Out: 213.317 $\pm$ 0.040 χ^2 /NDF:1227650.3/19

Right Out: 173.262 $\pm$ 0.050 χ^2 /NDF: 1578202.7/18

Left In: 181.493 $\pm$ 0.036 χ^2 /NDF:1532678.9/17

Left: 195.738 $\pm$ 0.027 χ^2 /NDF: 3105279.9/37

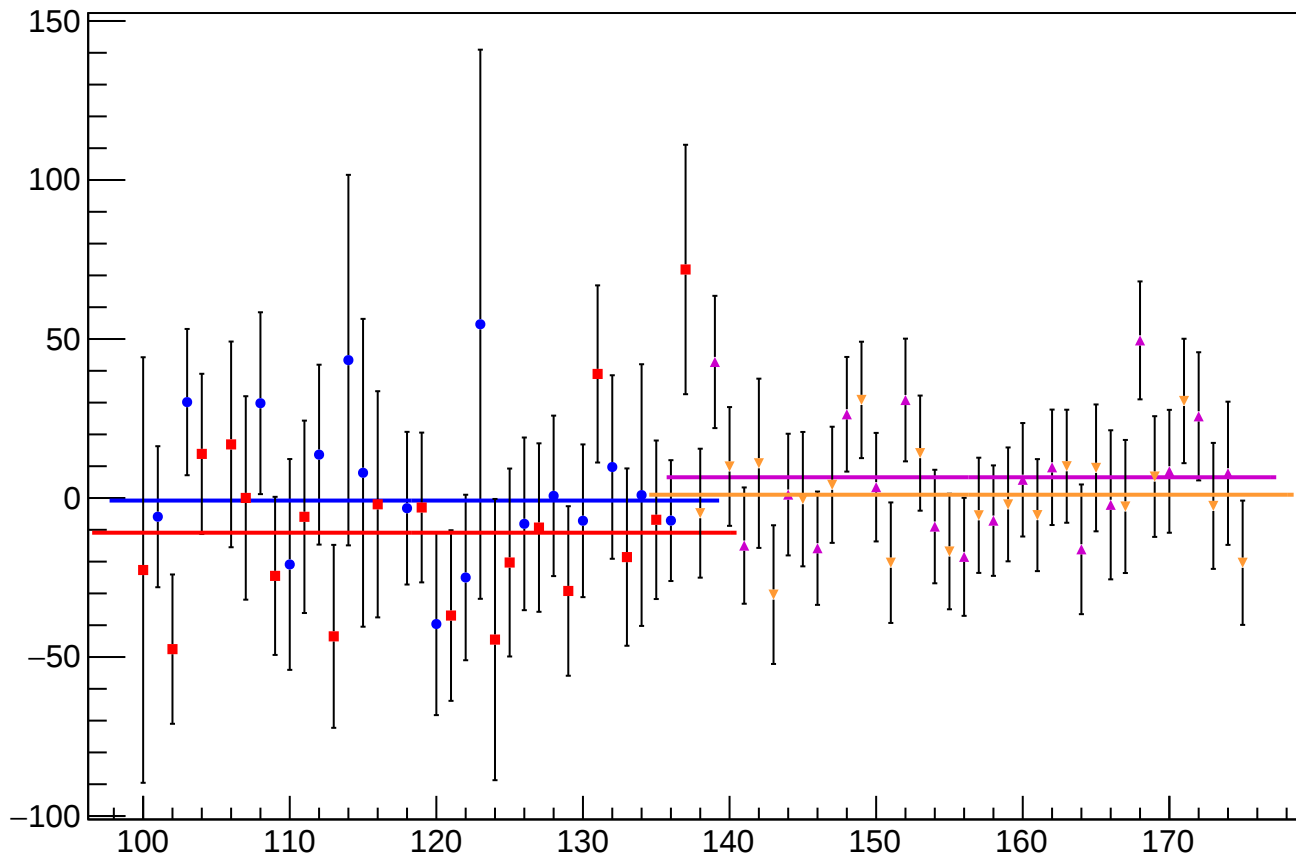
Right: 182.829 $\pm$ 0.037 χ^2 /NDF: 2666222.6/35

In: 185.459 $\pm$ 0.030 χ^2 /NDF:2577793.8/34

Out: 197.504 $\pm$ 0.031 χ^2 /NDF:3196402.7/38

All: 191.316 $\pm$ 0.022 χ^2 /NDF: 5850134.2/73

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.801 ± 6.770 χ^2/NDF : 7.8/16

Left Out: 1.035 ± 4.311 χ^2/NDF : 12.3/19

Right Out: -10.912 ± 6.626 χ^2/NDF : 15.9/18

Left In: 6.527 ± 4.465 χ^2/NDF : 19.8/17

Left: 3.685 ± 3.101 χ^2/NDF : 32.9/37

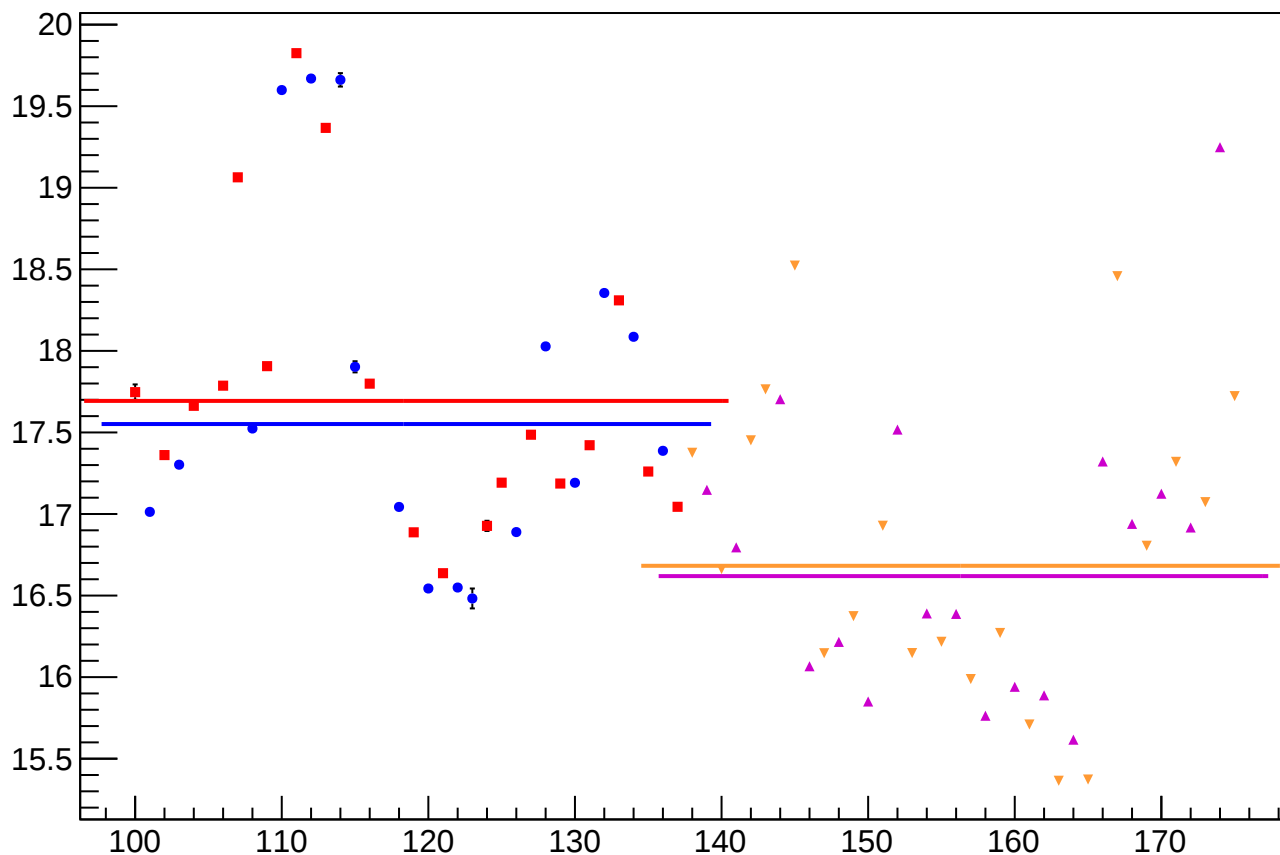
Right: -5.965 ± 4.735 χ^2/NDF : 24.8/35

In: 4.306 ± 3.727 χ^2/NDF : 28.4/34

Out: -2.517 ± 3.613 χ^2/NDF : 30.5/38

All: 0.788 ± 2.594 χ^2/NDF : 60.6/73

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.552 $\pm$ 0.005 χ^2 /NDF: 34027.1/16

Left Out: 16.683 $\pm$ 0.003 χ^2 /NDF:82561.9/19

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30742.0/18

Left In: 16.619 $\pm$ 0.003 χ^2 /NDF:67170.4/17

Left: 16.652 $\pm$ 0.002 χ^2 /NDF: 149939.6/37

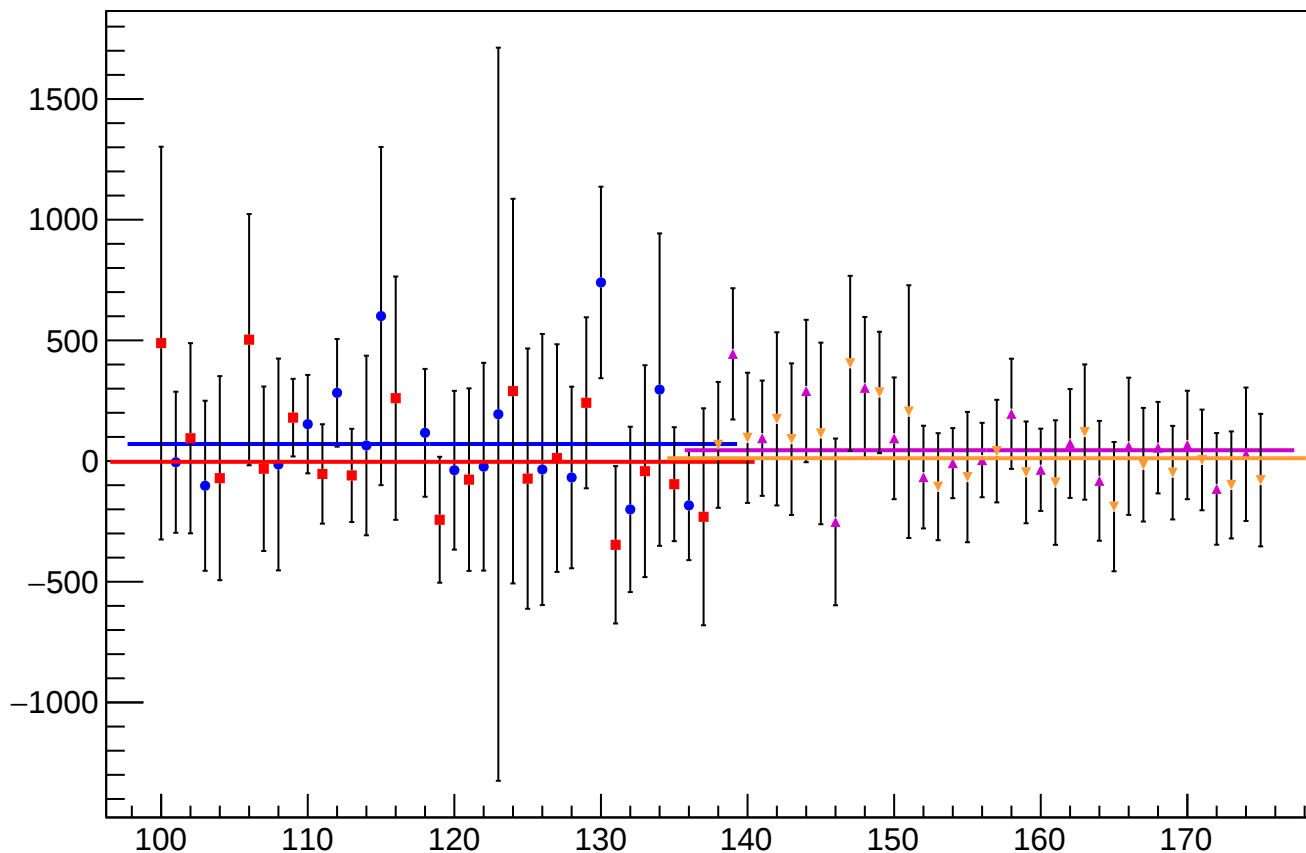
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 65217.7/35

In: 16.902 $\pm$ 0.003 χ^2 /NDF:127624.0/34

Out: 16.983 $\pm$ 0.003 χ^2 /NDF:146009.6/38

All: 16.944 $\pm$ 0.002 χ^2 /NDF: 274123.3/73

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.634 $\pm$ 80.409 χ^2 /NDF: 7.2/16

Left Out: 11.835 $\pm$ 57.536 χ^2 /NDF:4.8/19

Right Out: -3.063 $\pm$ 71.508 χ^2 /NDF: 6.2/18

Left In: 44.879 $\pm$ 51.911 χ^2 /NDF:6.4/17

Left: 30.051 $\pm$ 38.542 χ^2 /NDF: 11.3/37

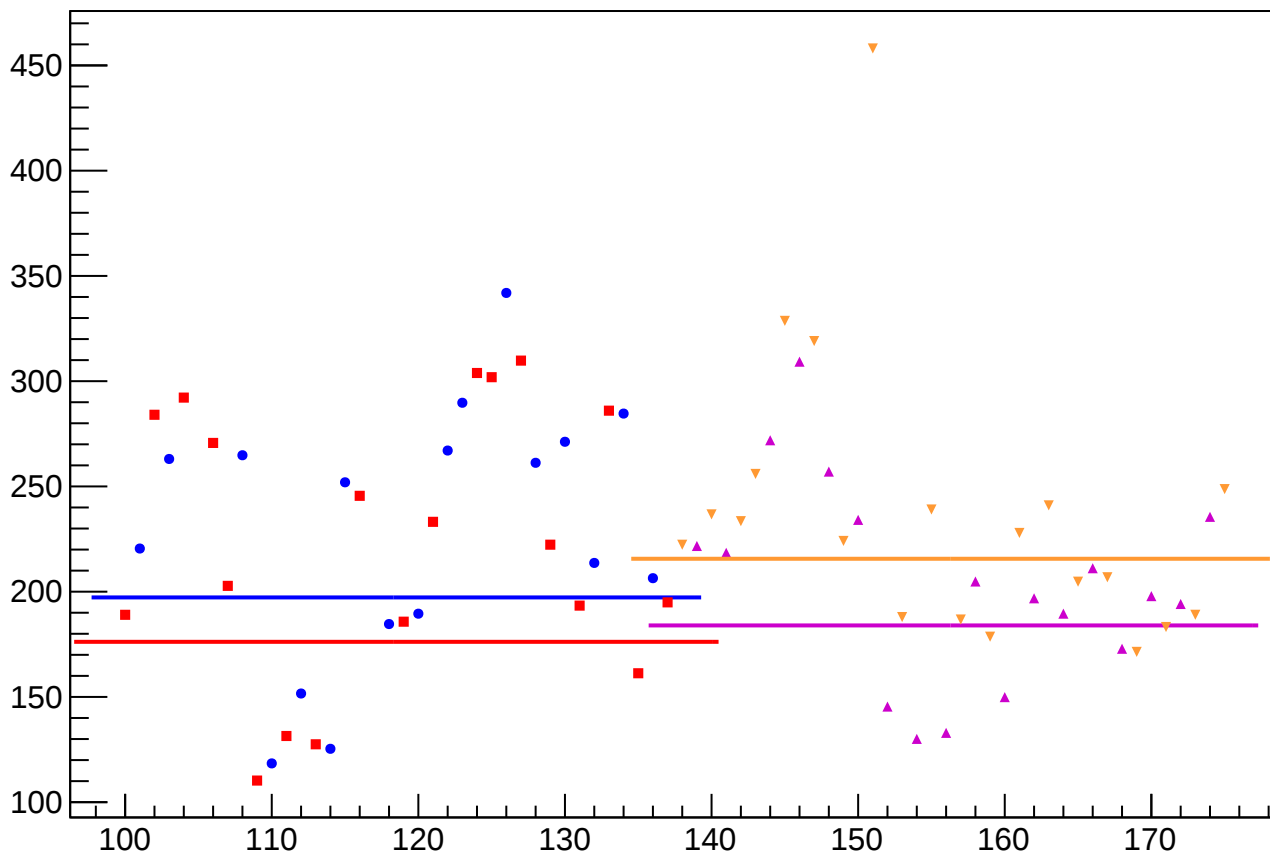
Right: 29.482 $\pm$ 53.435 χ^2 /NDF: 13.8/35

In: 52.456 $\pm$ 43.612 χ^2 /NDF:13.6/34

Out: 5.980 $\pm$ 44.827 χ^2 /NDF:11.0/38

All: 29.856 $\pm$ 31.259 χ^2 /NDF: 25.2/73

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.271+/-0.057 χ^2/NDF : 969549.7/16

Left Out: 215.637+/-0.041 χ^2/NDF :1207864.8/19

Right Out: 176.181+/-0.051 χ^2/NDF : 1519707.5/18

Left In: 183.968+/-0.037 χ^2/NDF :1494982.5/17

Left: 198.179+/-0.027 χ^2/NDF : 3036861.5/37

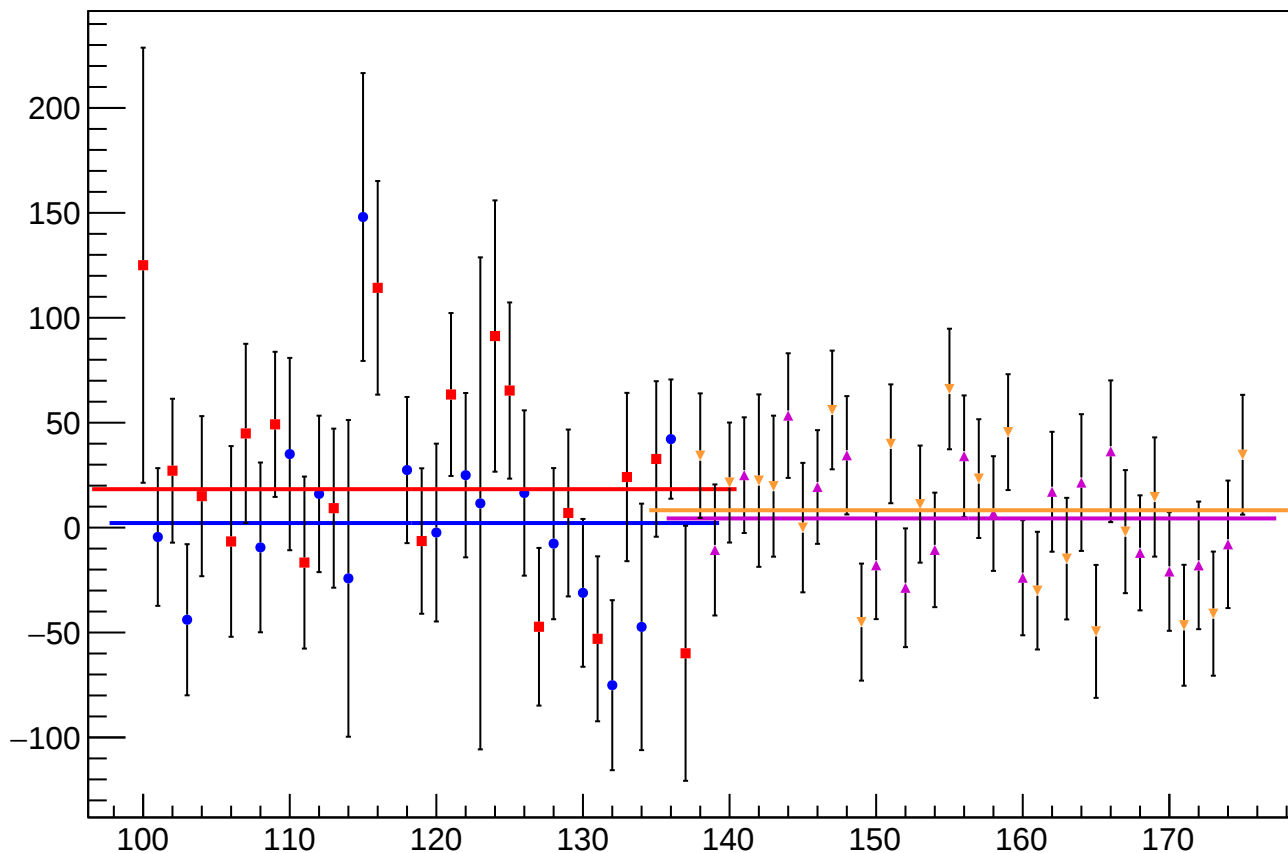
Right: 185.494+/-0.038 χ^2/NDF : 2566089.1/35

In: 187.882+/-0.031 χ^2/NDF :2503169.8/34

Out: 200.131+/-0.032 χ^2/NDF :3097195.9/38

All: 193.838+/-0.022 χ^2/NDF : 5677088.5/73

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.178 ± 9.825 $\chi^2/\text{NDF}: 15.4/16$

Left Out: 8.275 ± 6.571 $\chi^2/\text{NDF}: 28.4/19$

Right Out: 18.320 ± 9.497 $\chi^2/\text{NDF}: 19.6/18$

Left In: 4.377 ± 6.765 $\chi^2/\text{NDF}: 12.7/17$

Left: 6.383 ± 4.713 $\chi^2/\text{NDF}: 41.4/37$

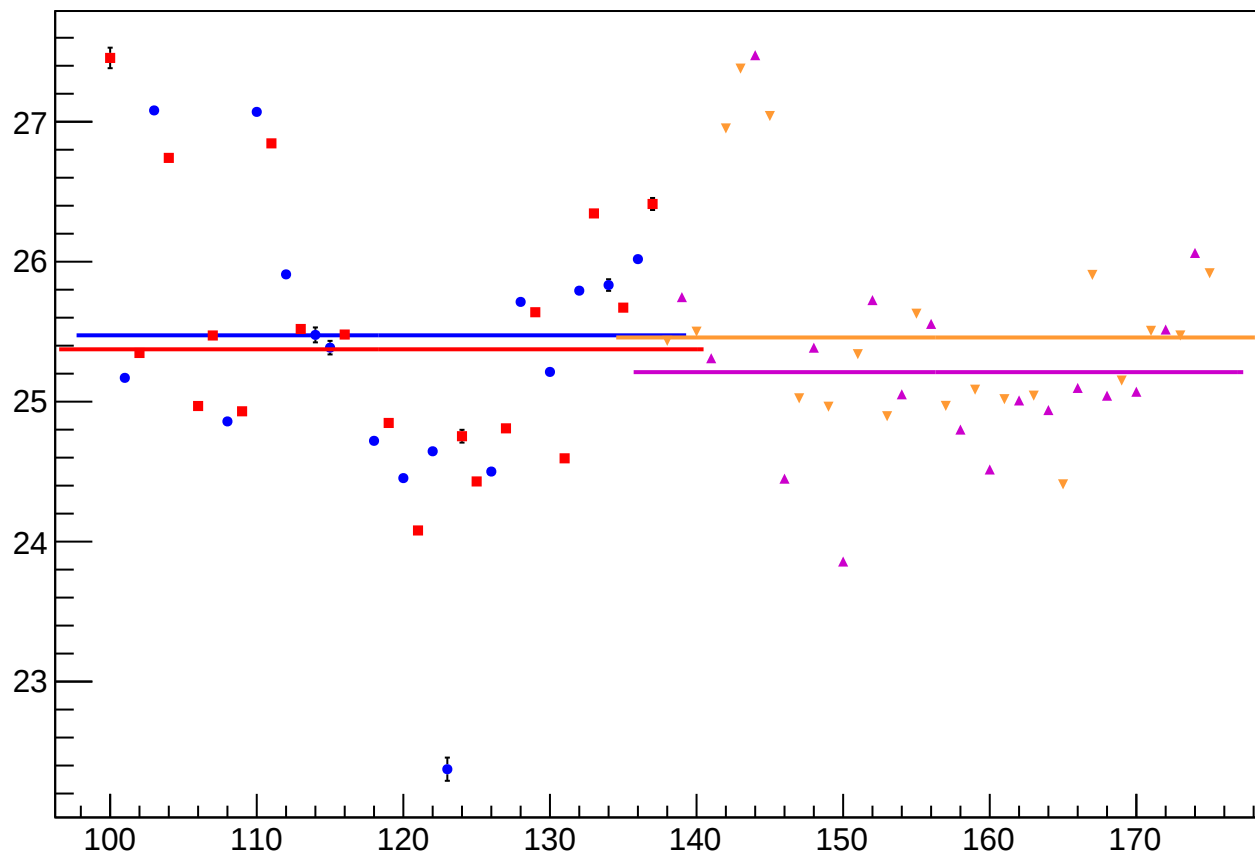
Right: 10.522 ± 6.828 $\chi^2/\text{NDF}: 36.4/35$

In: 3.669 ± 5.572 $\chi^2/\text{NDF}: 28.1/34$

Out: 11.527 ± 5.404 $\chi^2/\text{NDF}: 48.8/38$

All: 7.718 ± 3.879 $\chi^2/\text{NDF}: 78.0/73$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.474 $\pm$ 0.007 χ^2 /NDF: 14061.2/16

Left Out: 25.459 $\pm$ 0.005 χ^2 /NDF:21752.6/19

Right Out: 25.374 $\pm$ 0.007 χ^2 /NDF: 13581.2/18

Left In: 25.211 $\pm$ 0.005 χ^2 /NDF:24364.8/17

Left: 25.338 $\pm$ 0.003 χ^2 /NDF: 47497.7/37

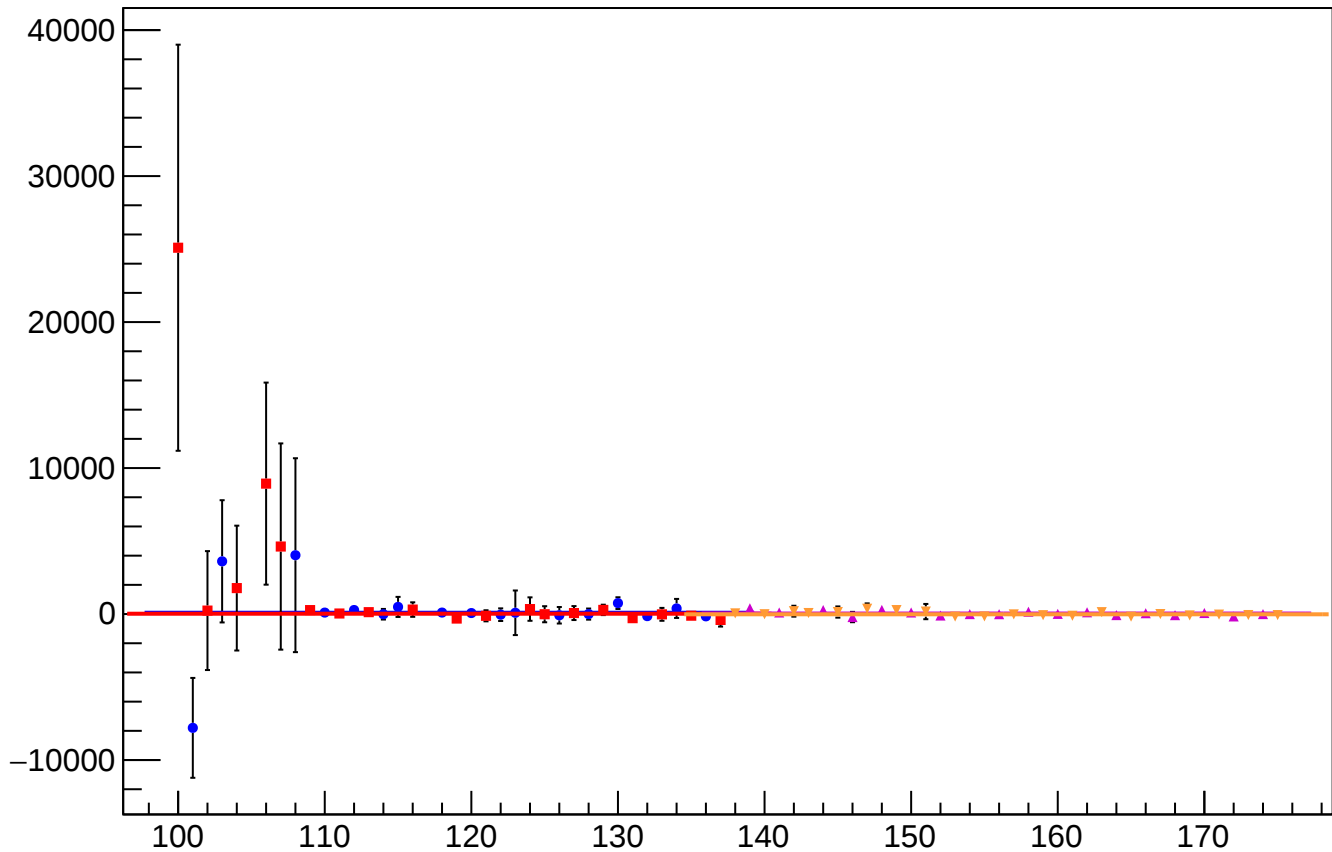
Right: 25.422 $\pm$ 0.005 χ^2 /NDF: 27749.4/35

In: 25.295 $\pm$ 0.004 χ^2 /NDF:39399.0/34

Out: 25.431 $\pm$ 0.004 χ^2 /NDF:35441.1/38

All: 25.365 $\pm$ 0.003 χ^2 /NDF: 75452.0/73

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.619+/-87.630 χ^2/NDF : 12.3/16

Left Out: -16.815+/-57.913 χ^2/NDF : 4.9/19

Right Out: 22.614+/-80.902 χ^2/NDF : 11.9/18

Left In: 35.887+/-52.456 χ^2/NDF : 6.1/17

Left: 12.135+/-38.878 χ^2/NDF : 11.5/37

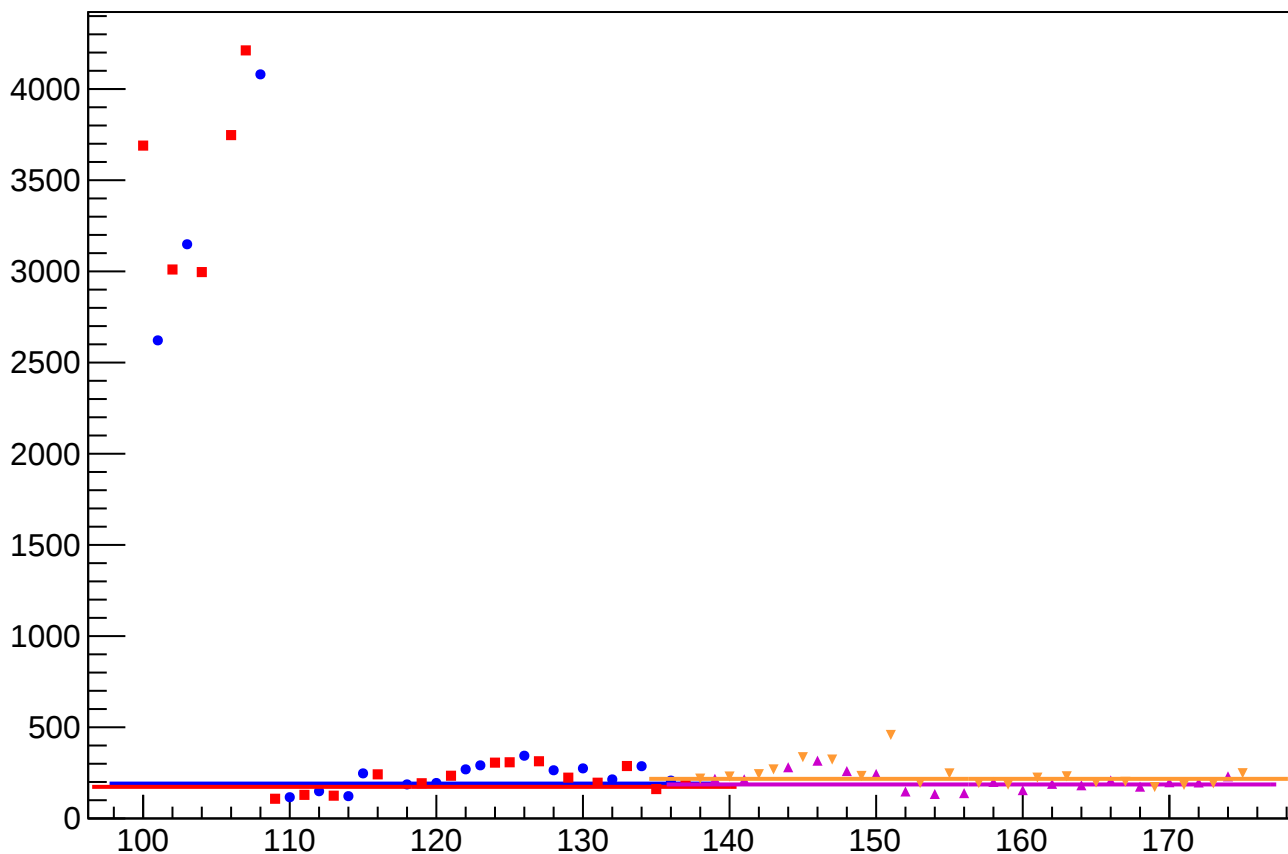
Right: 53.445+/-59.443 χ^2/NDF : 24.5/35

In: 50.062+/-45.009 χ^2/NDF : 18.6/34

Out: -3.456+/-47.091 χ^2/NDF : 17.0/38

All: 24.512+/-32.537 χ^2/NDF : 36.3/73

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.190 $\pm$ 0.062 χ^2 /NDF: 3571747.5/16

Left Out: 217.168 $\pm$ 0.041 χ^2 /NDF:1201897.8/19

Right Out: 173.269 $\pm$ 0.057 χ^2 /NDF: 4207191.5/18

Left In: 186.423 $\pm$ 0.037 χ^2 /NDF:1372276.4/17

Left: 200.279 $\pm$ 0.027 χ^2 /NDF: 2883814.3/37

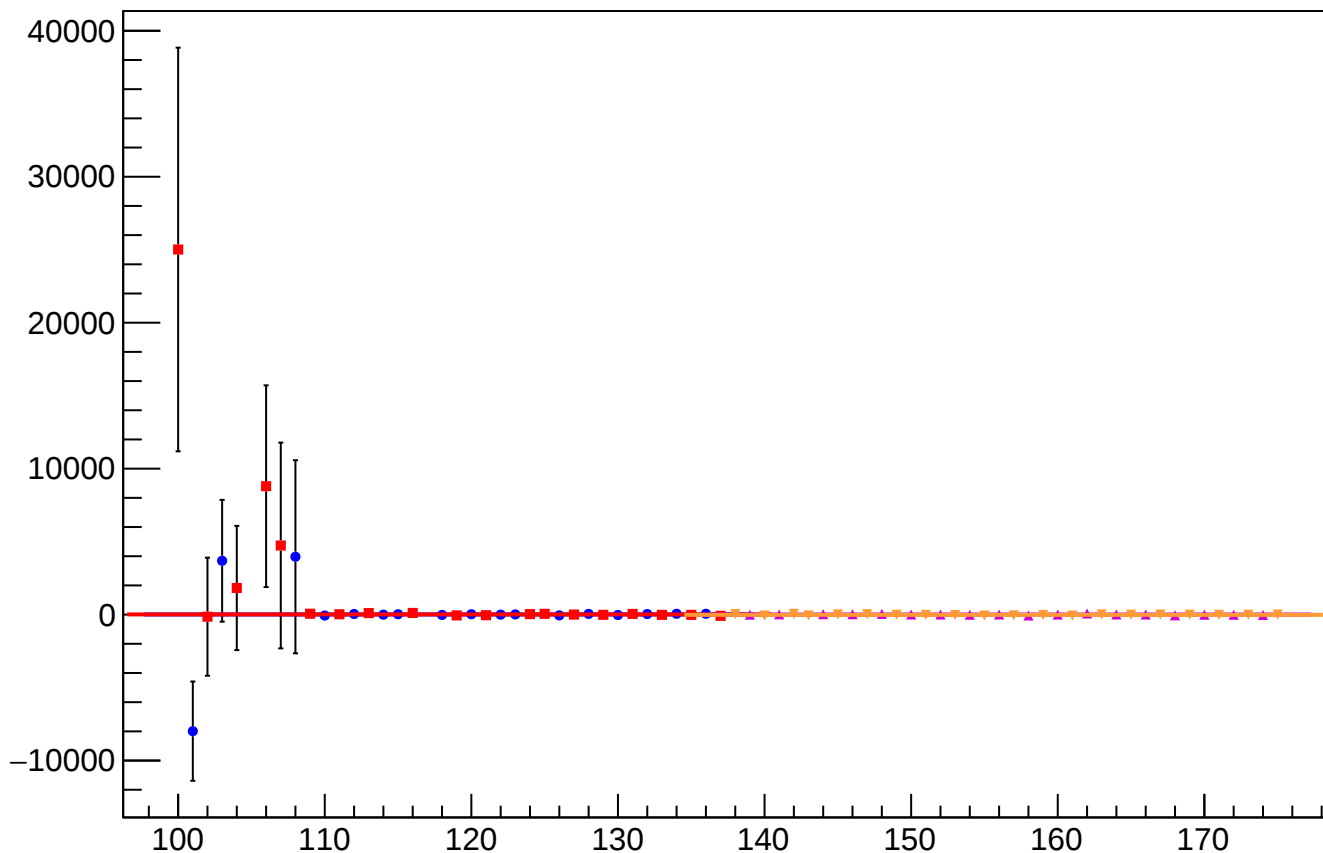
Right: 181.515 $\pm$ 0.042 χ^2 /NDF: 7824096.2/35

In: 187.681 $\pm$ 0.032 χ^2 /NDF:4948381.2/34

Out: 202.295 $\pm$ 0.033 χ^2 /NDF:5798447.3/38

All: 194.657 $\pm$ 0.023 χ^2 /NDF: 10847490.7/73

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.398+/-12.190 χ^2/NDF : 18.3/16

Left Out: -16.408+/-7.465 χ^2/NDF :16.4/19

Right Out: 12.947+/-12.227 χ^2/NDF : 24.4/18

Left In: 4.781+/-7.728 χ^2/NDF :18.7/17

Left: -6.180+/-5.369 χ^2/NDF : 39.0/37

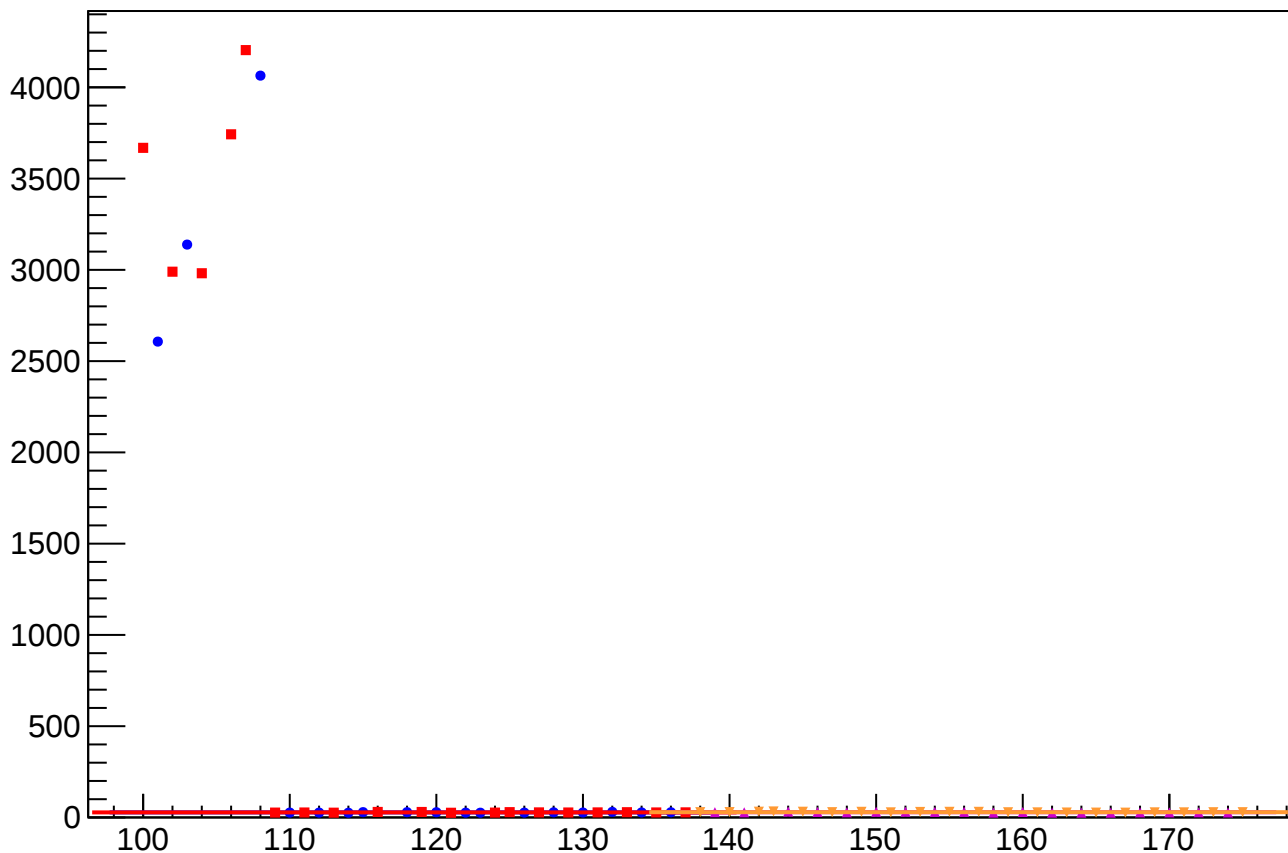
Right: 11.669+/-8.633 χ^2/NDF : 42.7/35

In: 6.391+/-6.527 χ^2/NDF :37.1/34

Out: -8.438+/-6.371 χ^2/NDF :45.0/38

All: -1.202+/-4.559 χ^2/NDF : 84.7/73

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.837 $\pm$ 0.009 χ^2 /NDF: 3026887.2/16

Left Out: 28.867 $\pm$ 0.005 χ^2 /NDF: 96589.8/19

Right Out: 27.694 $\pm$ 0.009 χ^2 /NDF: 3476801.0/18

Left In: 28.728 $\pm$ 0.005 χ^2 /NDF: 114990.1/17

Left: 28.800 $\pm$ 0.004 χ^2 /NDF: 211913.0/37

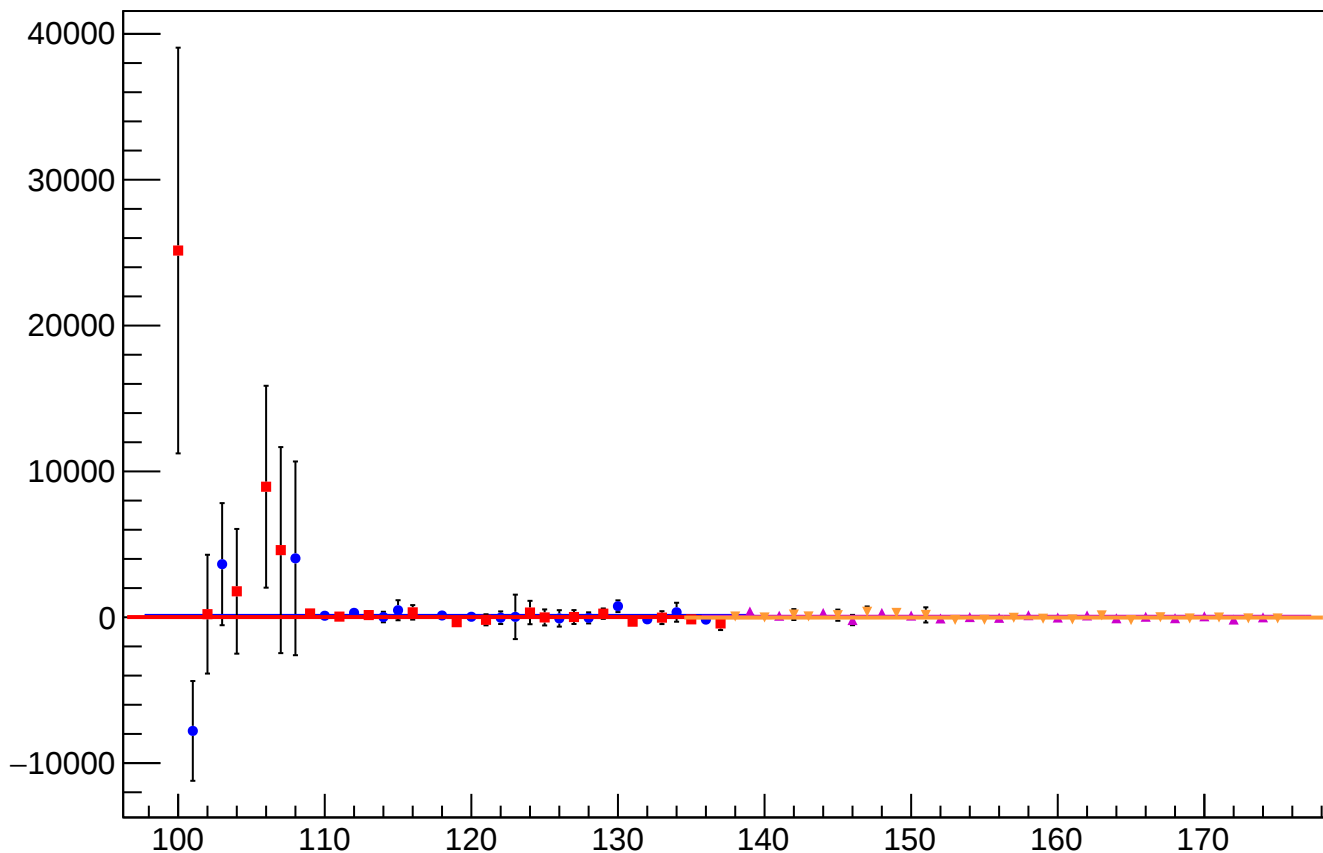
Right: 27.765 $\pm$ 0.006 χ^2 /NDF: 6503824.5/35

In: 28.473 $\pm$ 0.005 χ^2 /NDF: 3149510.7/34

Out: 28.548 $\pm$ 0.005 χ^2 /NDF: 3586796.4/38

All: 28.511 $\pm$ 0.003 χ^2 /NDF: 6736445.3/73

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 92.840+/-87.359 χ^2/NDF : 12.6/16

Left Out: -21.191+/-57.788 χ^2/NDF : 5.6/19

Right Out: 12.772+/-80.640 χ^2/NDF : 12.7/18

Left In: 34.536+/-52.354 χ^2/NDF : 6.1/17

Left: 9.415+/-38.799 χ^2/NDF : 12.2/37

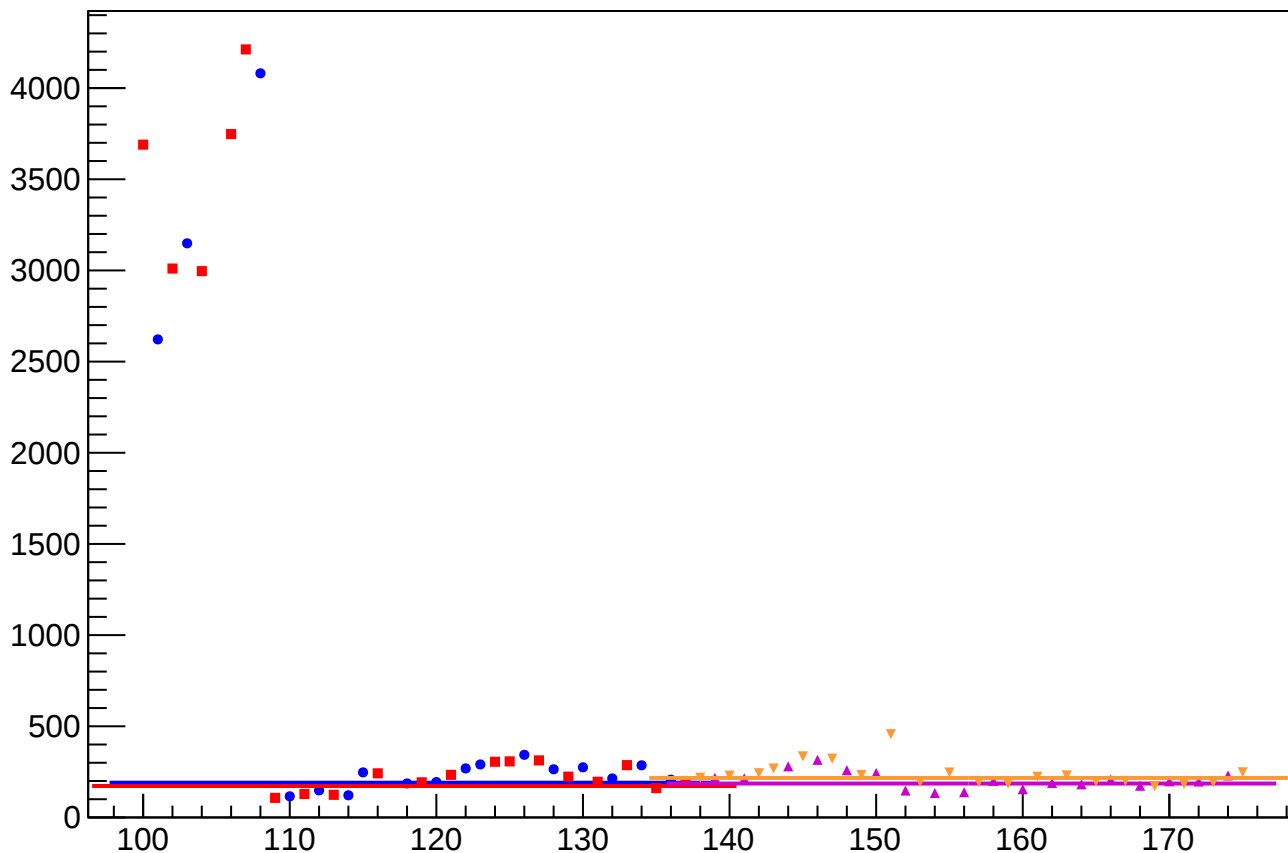
Right: 49.609+/-59.254 χ^2/NDF : 25.7/35

In: 49.943+/-44.907 χ^2/NDF : 19.0/34

Out: -9.668+/-46.972 χ^2/NDF : 18.3/38

All: 21.477+/-32.460 χ^2/NDF : 38.2/73

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.485+/-0.062 χ^2/NDF : 3583573.2/16

Left Out: 216.703+/-0.041 χ^2/NDF :1201502.3/19

Right Out: 172.601+/-0.057 χ^2/NDF : 4218384.5/18

Left In: 186.062+/-0.037 χ^2/NDF :1372006.3/17

Left: 199.875+/-0.027 χ^2/NDF : 2882314.5/37

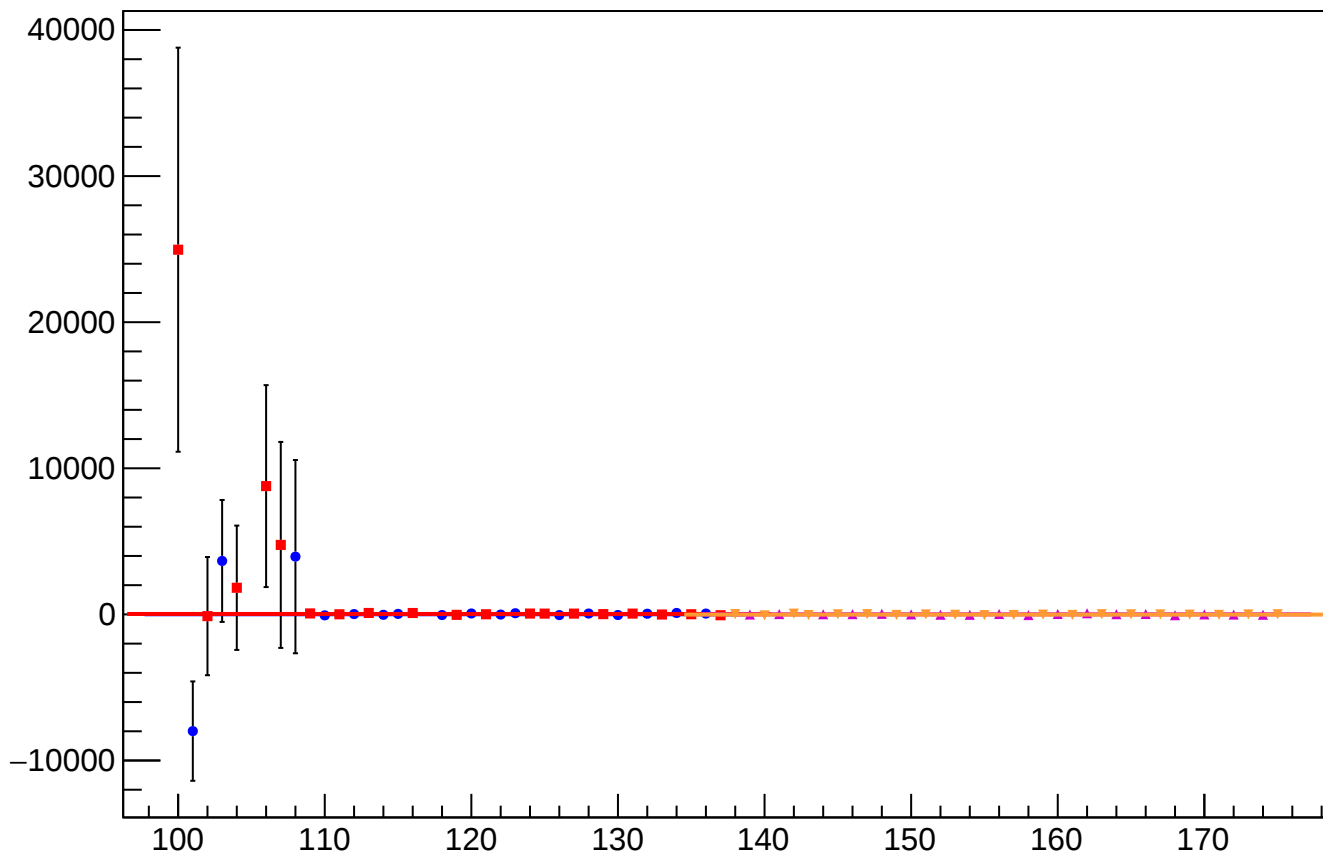
Right: 180.829+/-0.042 χ^2/NDF : 7847214.0/35

In: 187.231+/-0.032 χ^2/NDF :4959351.4/34

Out: 201.739+/-0.033 χ^2/NDF :5815105.7/38

All: 194.159+/-0.023 χ^2/NDF : 10874143.3/73

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.600+/-12.273 χ^2/NDF : 23.2/16

Left Out: -12.849+/-7.513 χ^2/NDF : 11.5/19

Right Out: 29.627+/-12.328 χ^2/NDF : 16.5/18

Left In: 3.916+/-7.769 χ^2/NDF : 18.5/17

Left: -4.747+/-5.401 χ^2/NDF : 32.4/37

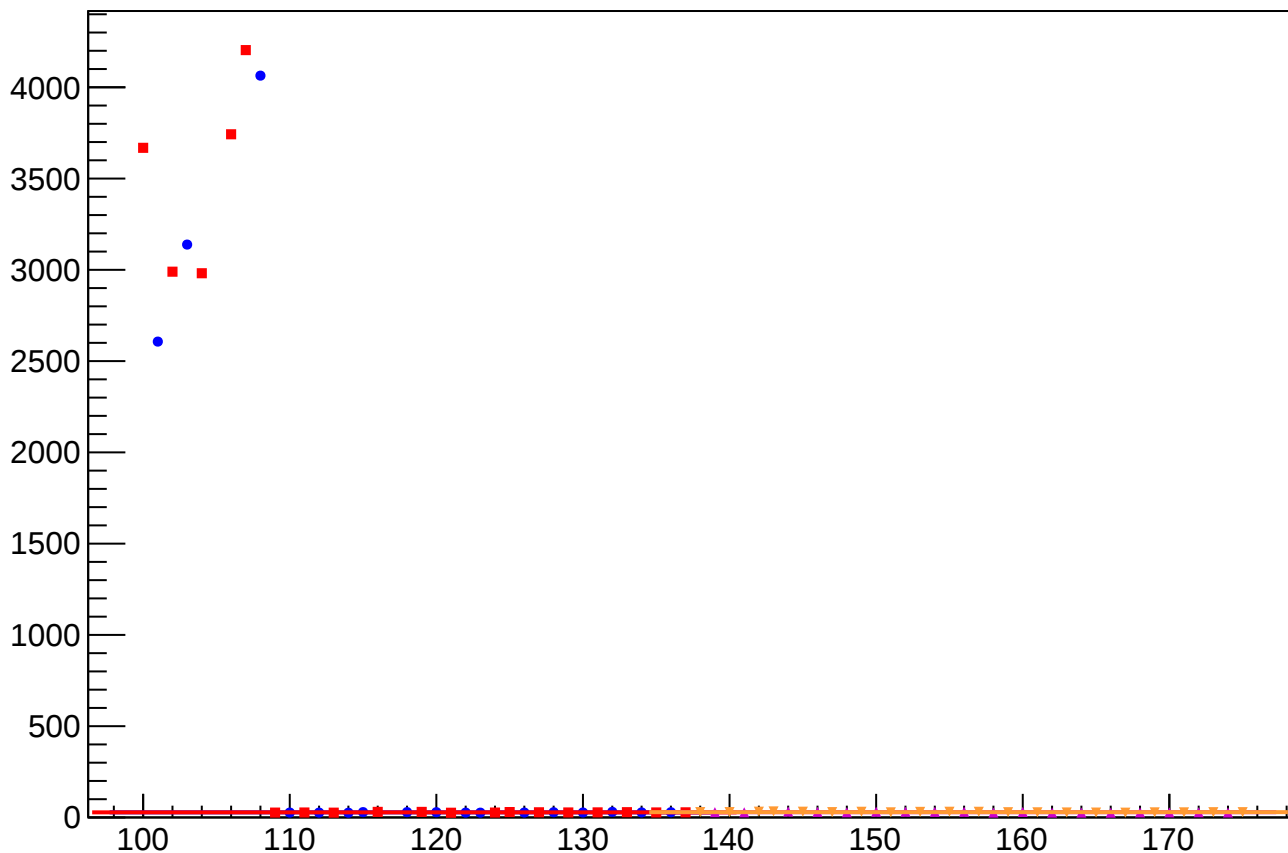
Right: 19.569+/-8.698 χ^2/NDF : 41.1/35

In: 5.542+/-6.565 χ^2/NDF : 41.8/34

Out: -1.345+/-6.416 χ^2/NDF : 36.7/38

All: 2.020+/-4.588 χ^2/NDF : 79.1/73

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.023+/-0.009 χ^2 /NDF: 3027003.0/16

Left Out: 29.051+/-0.005 χ^2 /NDF:102477.6/19

Right Out: 27.917+/-0.009 χ^2 /NDF: 3479610.6/18

Left In: 28.885+/-0.005 χ^2 /NDF:117472.6/17

Left: 28.971+/-0.004 χ^2 /NDF: 220425.5/37

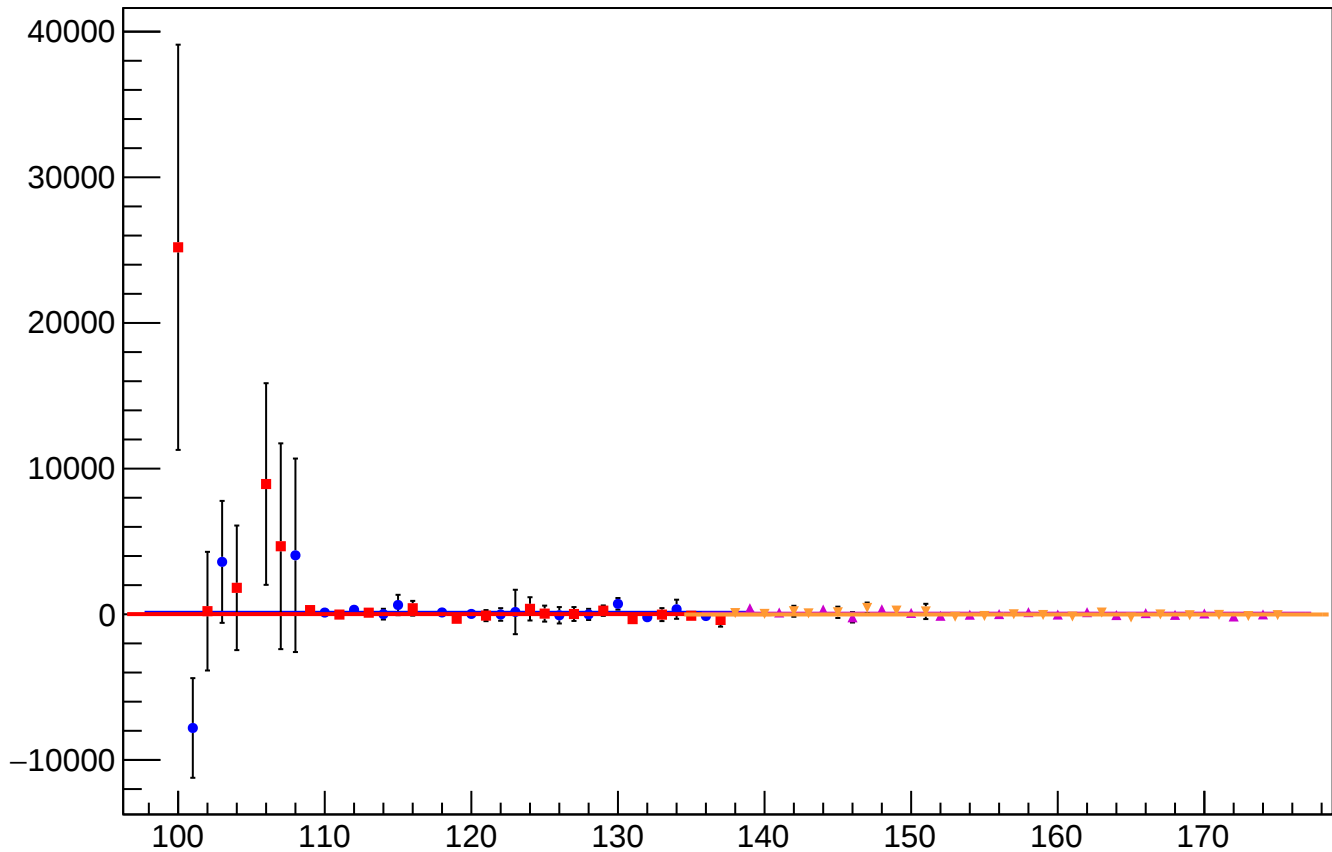
Right: 27.970+/-0.006 χ^2 /NDF: 6506687.7/35

In: 28.638+/-0.005 χ^2 /NDF:3151516.5/34

Out: 28.744+/-0.005 χ^2 /NDF:3594435.1/38

All: 28.692+/-0.003 χ^2 /NDF: 6746218.2/73

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.772 $\pm$ 88.390 χ^2 /NDF: 12.4/16

Left Out: -13.830 $\pm$ 58.473 χ^2 /NDF:5.5/19

Right Out: 11.229 $\pm$ 81.728 χ^2 /NDF: 12.2/18

Left In: 41.916 $\pm$ 53.079 χ^2 /NDF:6.7/17

Left: 16.732 $\pm$ 39.302 χ^2 /NDF: 12.7/37

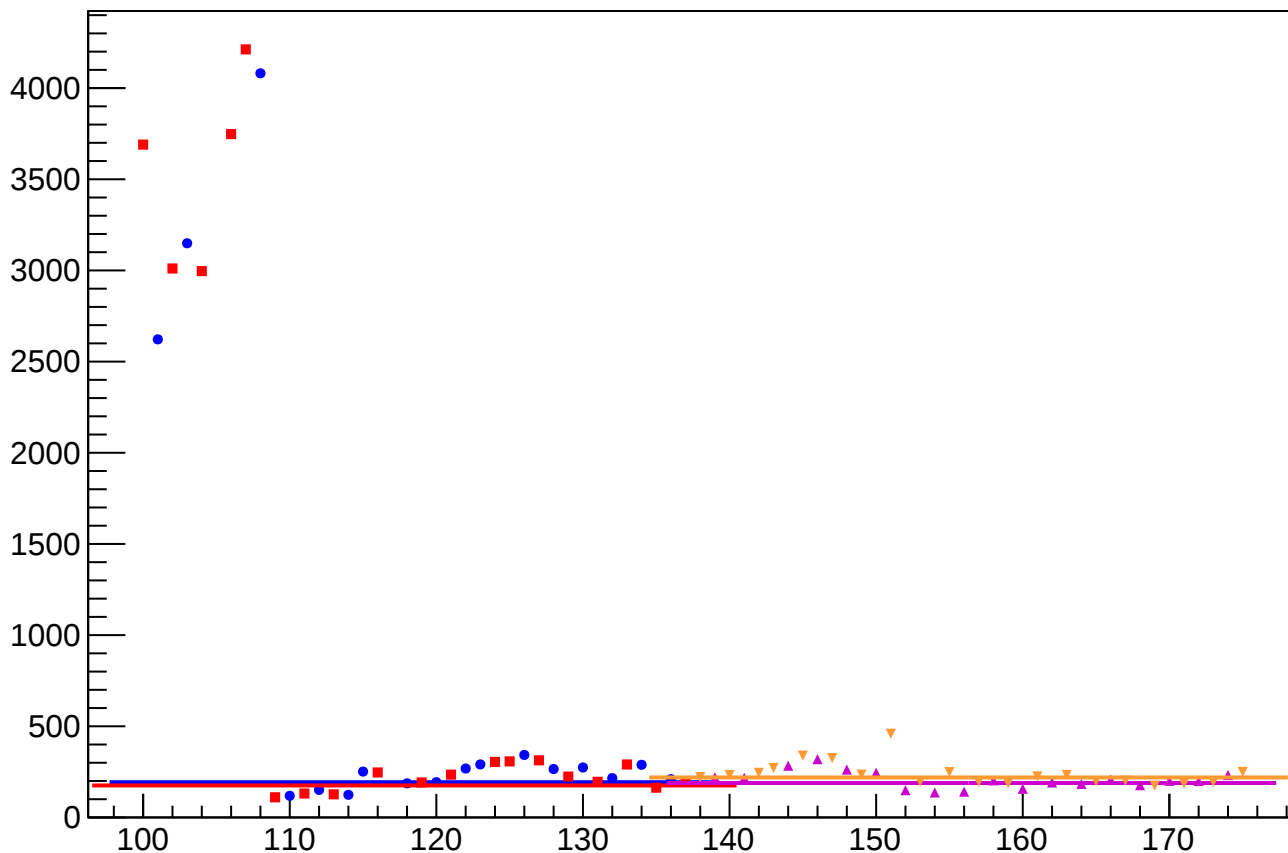
Right: 52.959 $\pm$ 60.008 χ^2 /NDF: 25.2/35

In: 57.780 $\pm$ 45.505 χ^2 /NDF:19.4/34

Out: -5.346 $\pm$ 47.555 χ^2 /NDF:17.8/38

All: 27.607 $\pm$ 32.878 χ^2 /NDF: 38.1/73

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.190 $\pm$ 0.063 χ^2 /NDF: 3536123.5/16

Left Out: 219.388 $\pm$ 0.041 χ^2 /NDF: 1186350.0/19

Right Out: 175.485 $\pm$ 0.058 χ^2 /NDF: 4165391.7/18

Left In: 188.816 $\pm$ 0.038 χ^2 /NDF: 1339812.6/17

Left: 202.627 $\pm$ 0.028 χ^2 /NDF: 2825887.1/37

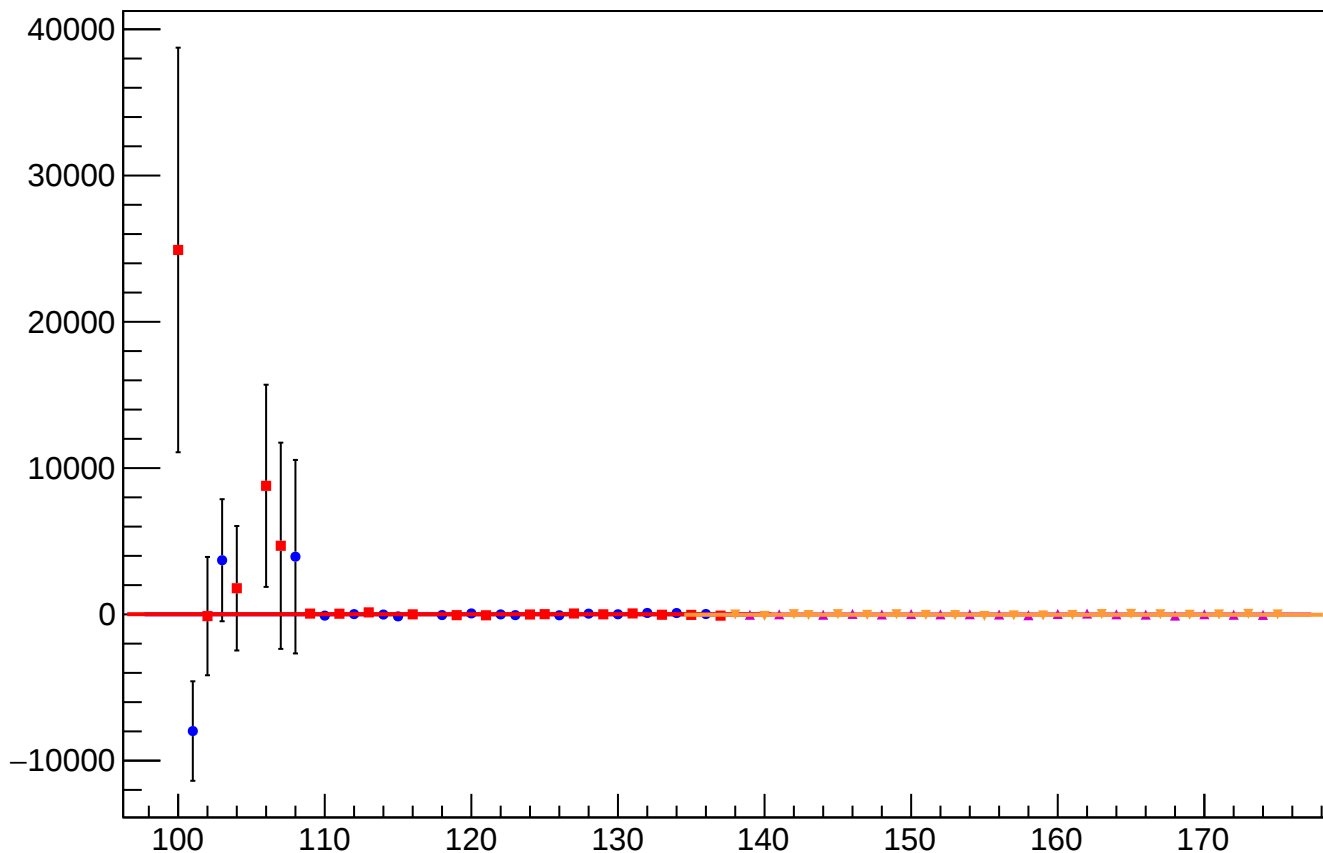
Right: 183.645 $\pm$ 0.042 χ^2 /NDF: 7744773.8/35

In: 189.975 $\pm$ 0.032 χ^2 /NDF: 4879535.8/34

Out: 204.523 $\pm$ 0.034 χ^2 /NDF: 5733461.0/38

All: 196.929 $\pm$ 0.023 χ^2 /NDF: 10710704.4/73

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.651+/-14.935 χ^2/NDF : 20.4/16

Left Out: -26.267+/-8.977 χ^2/NDF : 21.3/19

Right Out: 12.487+/-14.947 χ^2/NDF : 21.7/18

Left In: -5.526+/-9.302 χ^2/NDF : 12.8/17

Left: -16.265+/-6.459 χ^2/NDF : 36.7/37

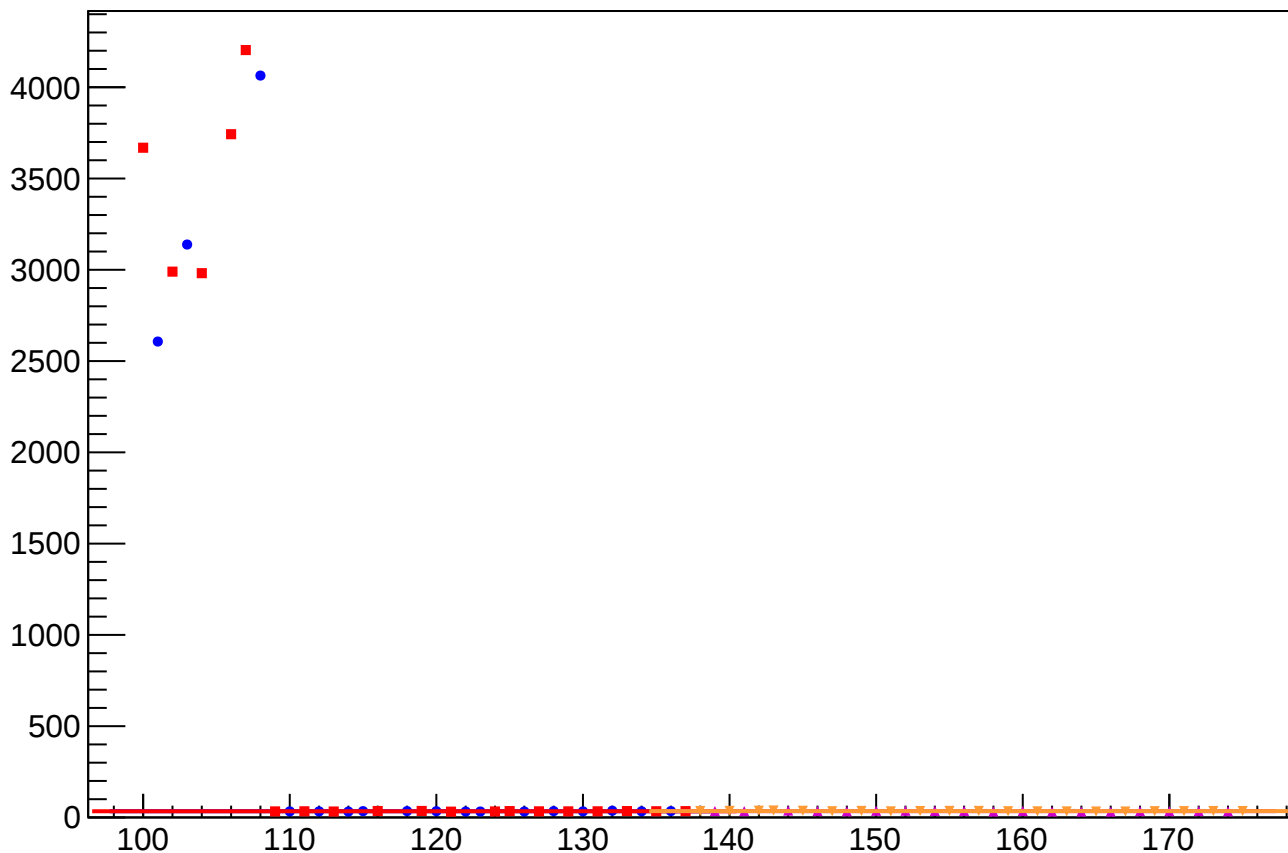
Right: 8.566+/-10.565 χ^2/NDF : 42.2/35

In: -2.681+/-7.896 χ^2/NDF : 33.5/34

Out: -15.994+/-7.696 χ^2/NDF : 48.0/38

All: -9.509+/-5.511 χ^2/NDF : 82.9/73

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: 34.766 $\pm$ 0.006 χ^2 /NDF: 47649.7/19

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451888.1/18

Left In: 34.647 $\pm$ 0.007 χ^2 /NDF: 52751.0/17

Left: 34.709 $\pm$ 0.005 χ^2 /NDF: 100570.4/37

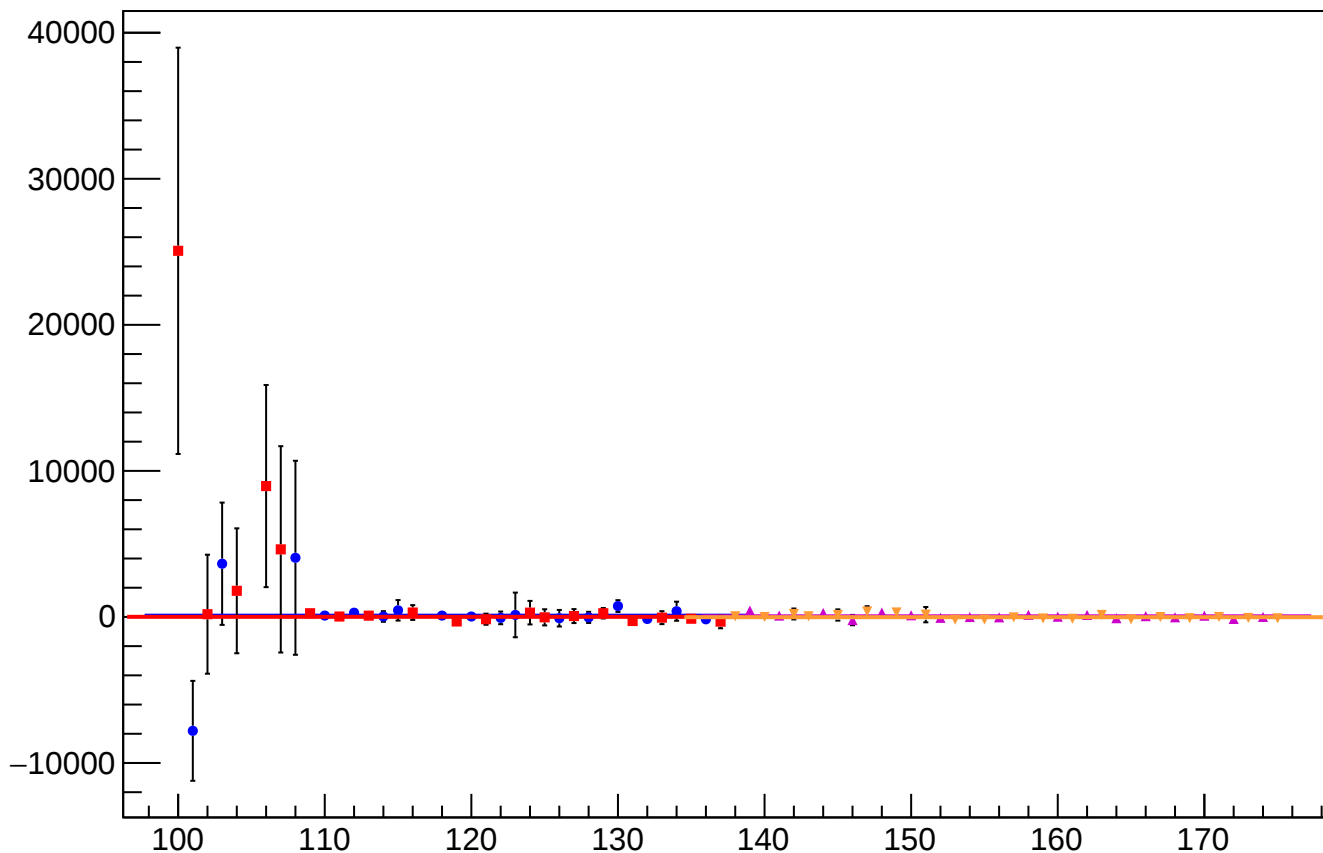
Right: 34.025 $\pm$ 0.007 χ^2 /NDF: 6458362.5/35

In: 34.505 $\pm$ 0.006 χ^2 /NDF: 3060677.2/34

Out: 34.540 $\pm$ 0.005 χ^2 /NDF: 3504330.6/38

All: 34.523 $\pm$ 0.004 χ^2 /NDF: 6565028.2/73

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.041+/-87.947 χ^2/NDF : 12.4/16

Left Out: -17.501+/-58.364 χ^2/NDF : 5.4/19

Right Out: 7.296+/-81.208 χ^2/NDF : 11.1/18

Left In: 43.299+/-52.953 χ^2/NDF : 6.0/17

Left: 15.848+/-39.217 χ^2/NDF : 12.1/37

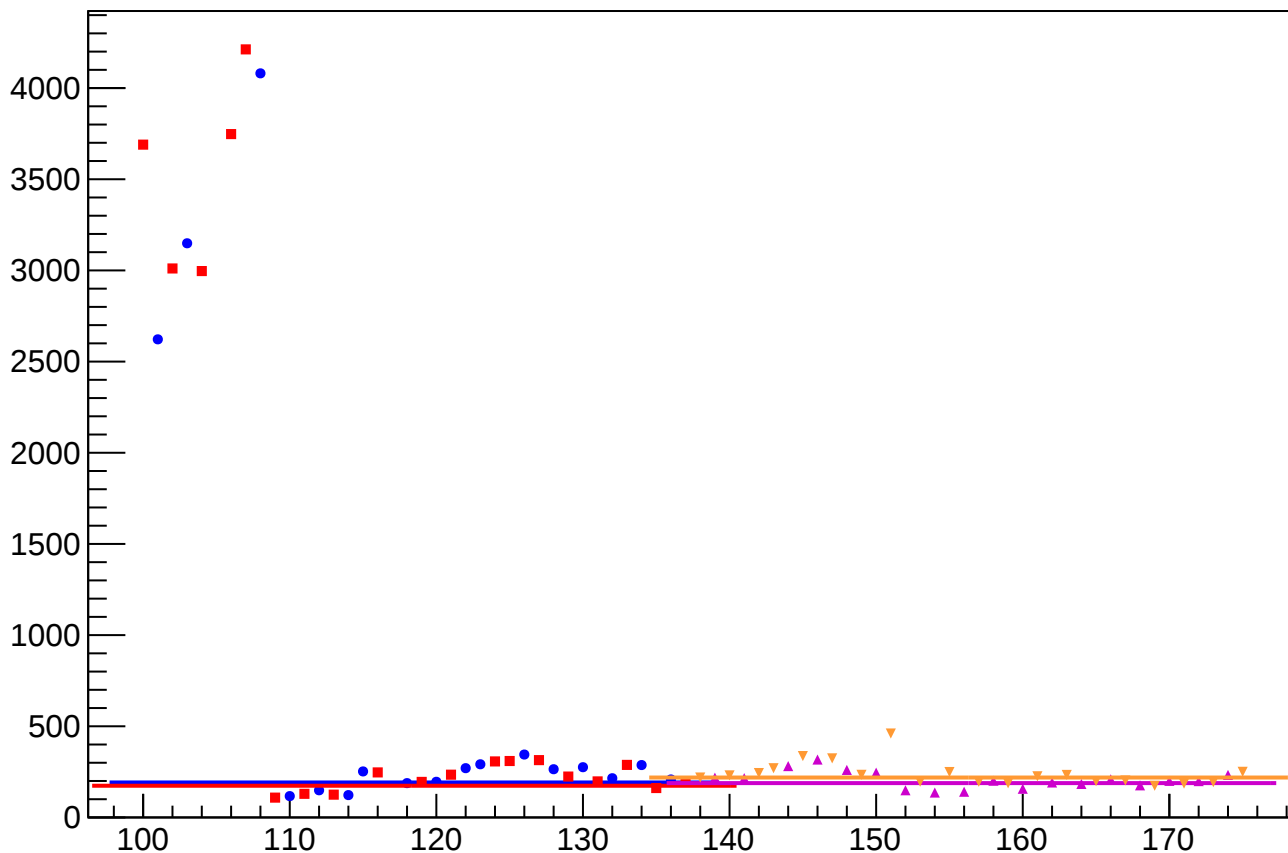
Right: 43.536+/-59.663 χ^2/NDF : 23.9/35

In: 54.671+/-45.365 χ^2/NDF : 18.6/34

Out: -9.055+/-47.394 χ^2/NDF : 16.6/38

All: 24.201+/-32.772 χ^2/NDF : 36.1/73

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.880+/-0.062 χ^2/NDF : 3573060.2/16

Left Out: 218.979+/-0.041 χ^2/NDF : 1179410.7/19

Right Out: 173.928+/-0.057 χ^2/NDF : 4211385.1/18

Left In: 188.362+/-0.037 χ^2/NDF : 1330347.0/17

Left: 202.186+/-0.028 χ^2/NDF : 2811637.6/37

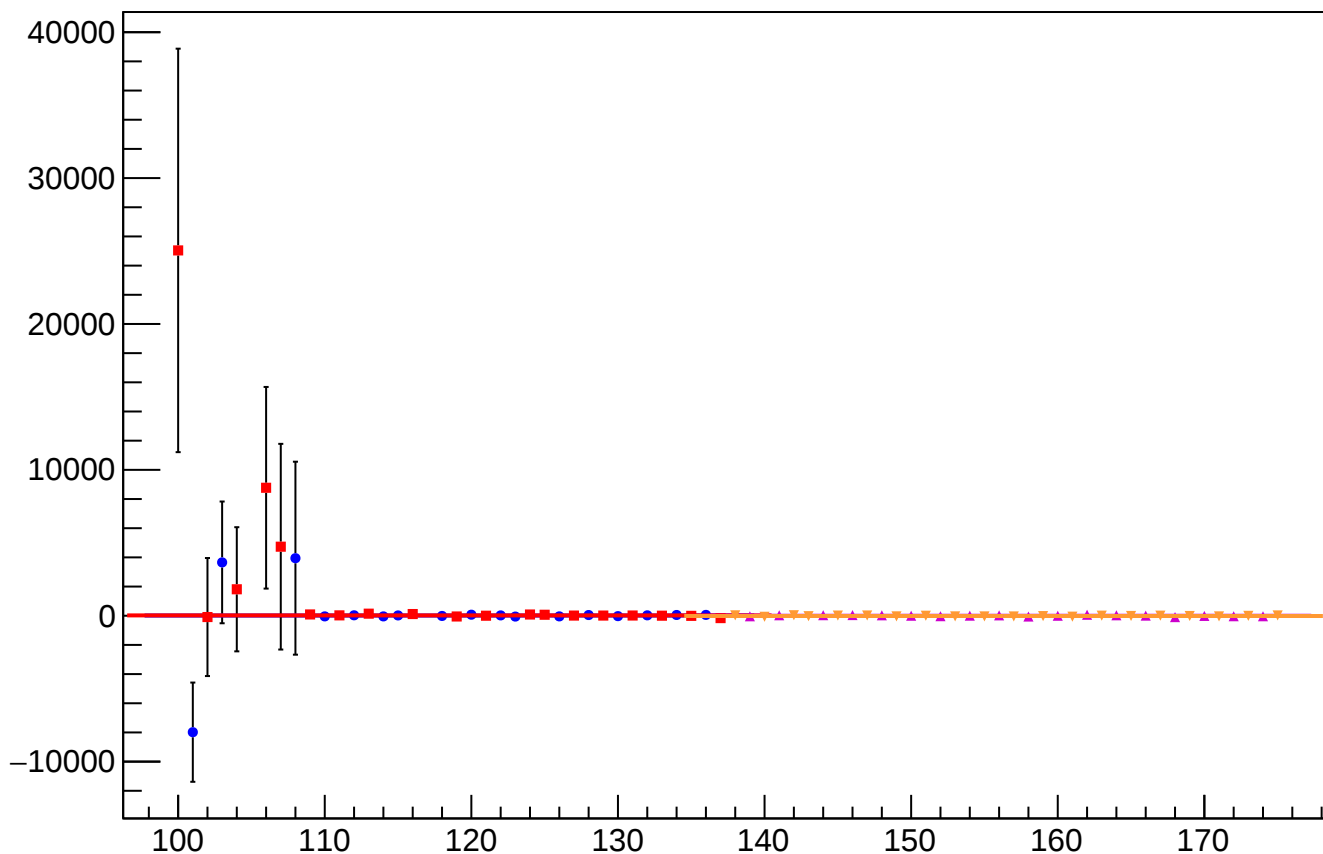
Right: 182.190+/-0.042 χ^2/NDF : 7829428.1/35

In: 189.298+/-0.032 χ^2/NDF : 4905756.2/34

Out: 203.635+/-0.034 χ^2/NDF : 5796669.1/38

All: 196.153+/-0.023 χ^2/NDF : 10797930.8/73

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.121+/-13.618 χ^2/NDF : 15.2/16

Left Out: -18.800+/-8.125 χ^2/NDF : 13.5/19

Right Out: 23.374+/-13.655 χ^2/NDF : 27.5/18

Left In: -1.160+/-8.424 χ^2/NDF : 23.7/17

Left: -10.298+/-5.848 χ^2/NDF : 39.5/37

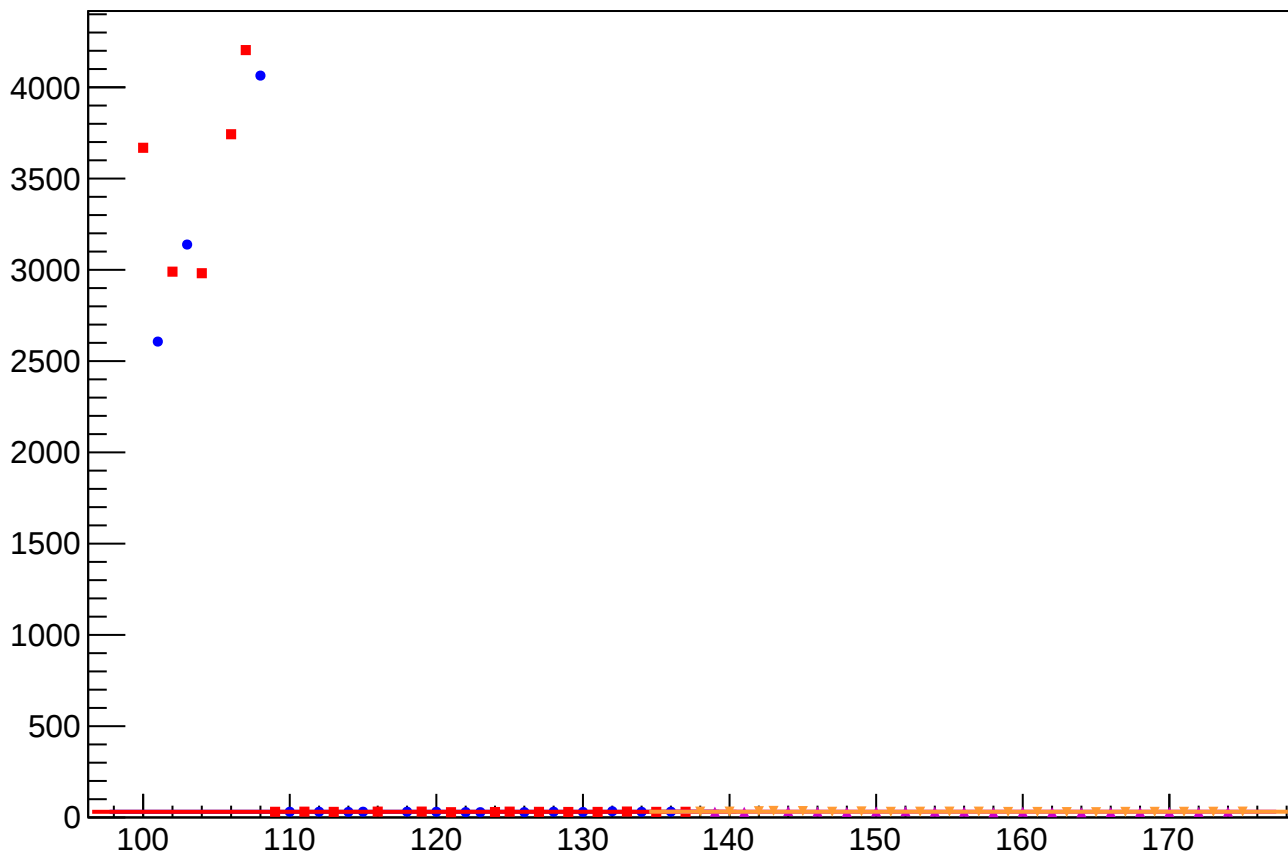
Right: 18.734+/-9.643 χ^2/NDF : 42.9/35

In: 3.069+/-7.164 χ^2/NDF : 39.8/34

Out: -7.773+/-6.983 χ^2/NDF : 48.0/38

All: -2.491+/-5.000 χ^2/NDF : 89.0/73

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.127 $\pm$ 0.010 χ^2 /NDF: 3014425.9/16

Left Out: 31.440 $\pm$ 0.006 χ^2 /NDF: 73792.4/19

Right Out: 30.963 $\pm$ 0.010 χ^2 /NDF: 3458945.1/18

Left In: 31.334 $\pm$ 0.006 χ^2 /NDF: 82233.8/17

Left: 31.389 $\pm$ 0.004 χ^2 /NDF: 156188.6/37

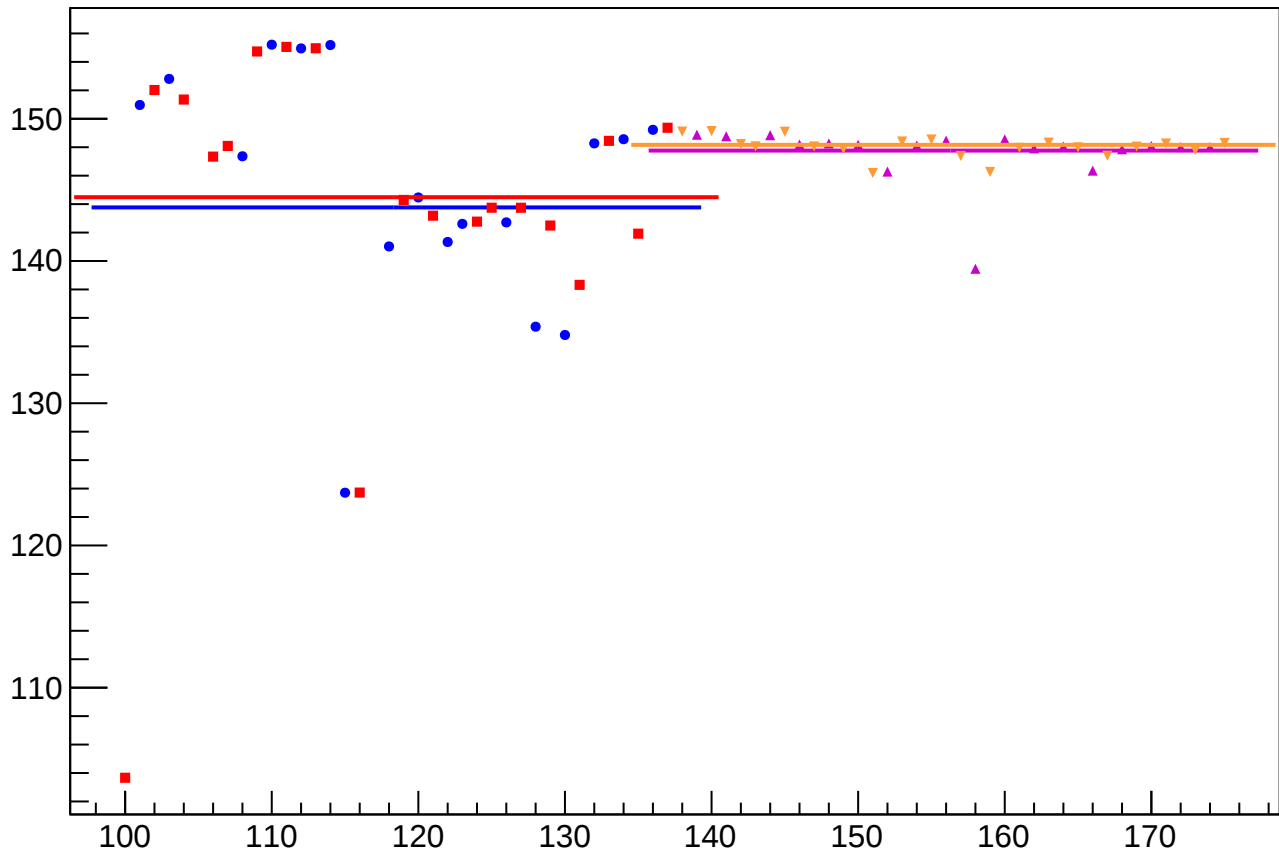
Right: 31.045 $\pm$ 0.007 χ^2 /NDF: 6473514.9/35

In: 31.277 $\pm$ 0.005 χ^2 /NDF: 3096996.0/34

Out: 31.315 $\pm$ 0.005 χ^2 /NDF: 3534537.5/38

All: 31.297 $\pm$ 0.004 χ^2 /NDF: 6631562.8/73

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.768 $\pm$ 0.000 χ^2 /NDF: 3532173868.5/16

Left Out: 148.167 $\pm$ 0.000 χ^2 /NDF: 52918458.6/19

Right Out: 144.486 $\pm$ 0.000 χ^2 /NDF: 4183608291.3/18

Left In: 147.764 $\pm$ 0.000 χ^2 /NDF: 324749789.0/17

Left: 147.975 $\pm$ 0.000 χ^2 /NDF: 384021403.8/37

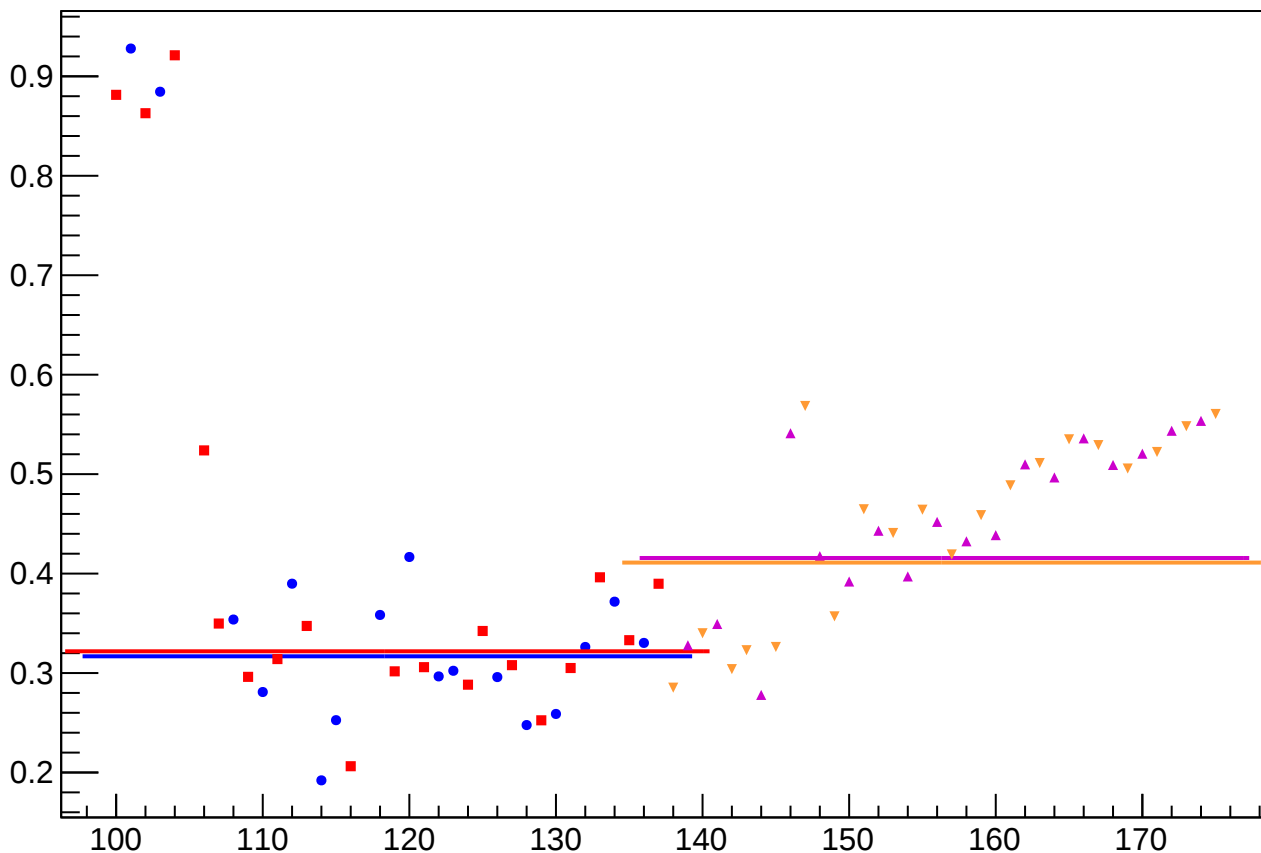
Right: 144.130 $\pm$ 0.000 χ^2 /NDF: 7730221597.0/35

In: 146.059 $\pm$ 0.000 χ^2 /NDF: 4366471208.3/34

Out: 146.661 $\pm$ 0.000 χ^2 /NDF: 4689751362.8/38

All: 146.369 $\pm$ 0.000 χ^2 /NDF: 9080538433.8

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1278613.2/16

Left Out: 0.411 $\pm$ 0.000 χ^2 /NDF:1417552.1/19

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1217762.5/18

Left In: 0.416 $\pm$ 0.000 χ^2 /NDF:1098241.5/17

Left: 0.413 $\pm$ 0.000 χ^2 /NDF: 2517453.5/37

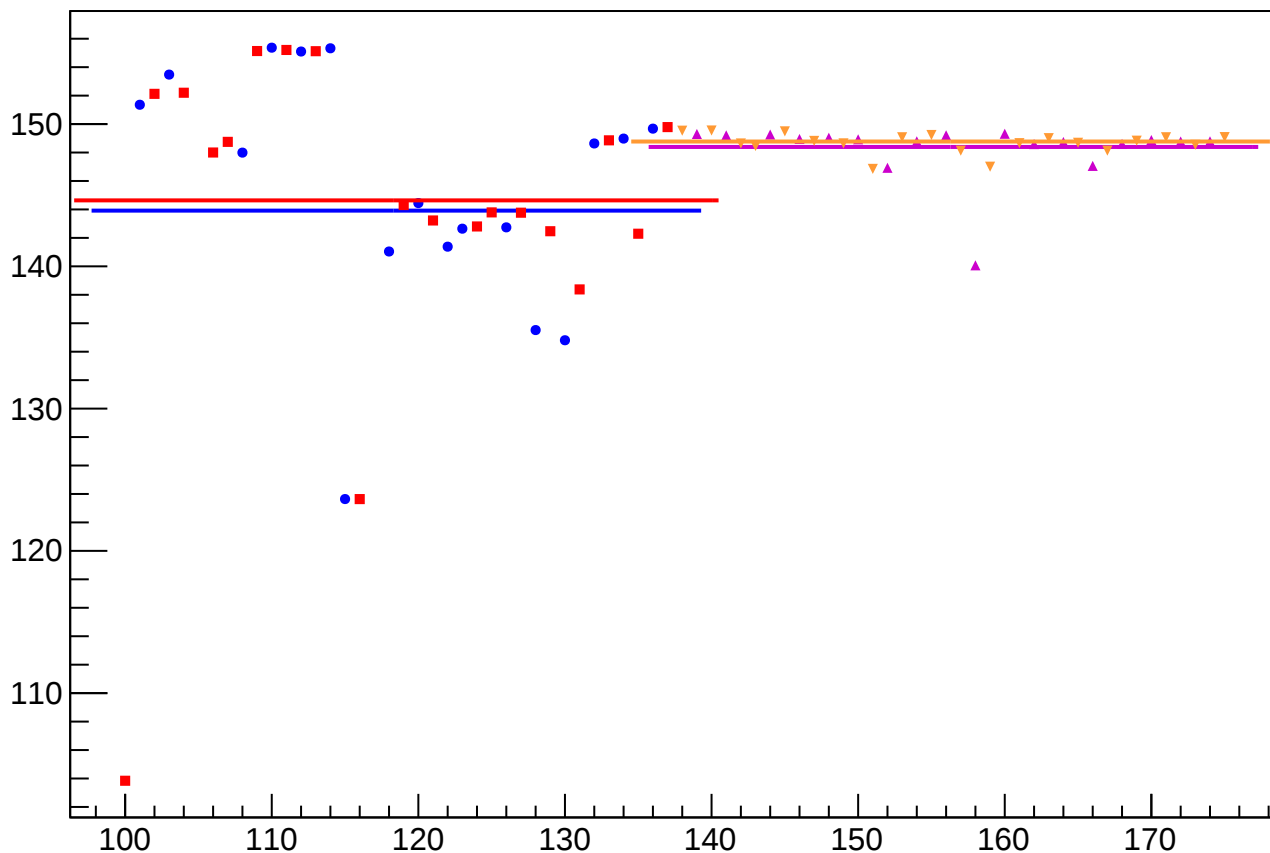
Right: 0.319 $\pm$ 0.000 χ^2 /NDF: 2497805.1/35

In: 0.374 $\pm$ 0.000 χ^2 /NDF:3000682.5/34

Out: 0.375 $\pm$ 0.000 χ^2 /NDF:3167448.8/38

All: 0.374 $\pm$ 0.000 χ^2 /NDF: 6168286.0/73

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.917 $\pm$ 0.000 χ^2 /NDF: 3584662767.5/16

Left Out: 148.774 $\pm$ 0.000 χ^2 /NDF: 41596405.0/19

Right Out: 144.637 $\pm$ 0.000 χ^2 /NDF: 4210524953.9/18

Left In: 148.391 $\pm$ 0.000 χ^2 /NDF: 314714941.7/17

Left: 148.591 $\pm$ 0.000 χ^2 /NDF: 361903241.0/37

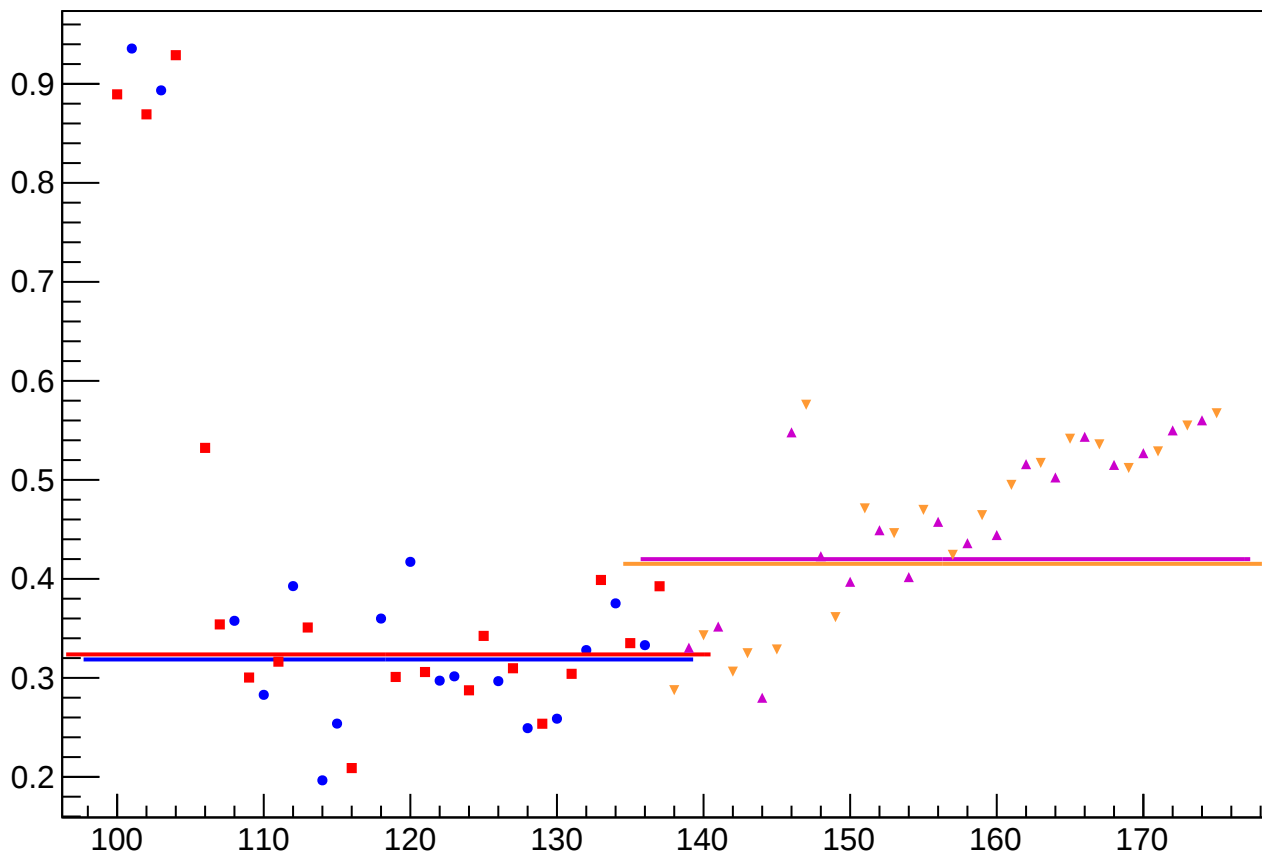
Right: 144.280 $\pm$ 0.000 χ^2 /NDF: 7809567994.8/35

In: 146.472 $\pm$ 0.000 χ^2 /NDF: 4528592326.0/34

Out: 147.072 $\pm$ 0.000 χ^2 /NDF: 4815653102.3/38

All: 146.781 $\pm$ 0.000 χ^2 /NDF: 9368050883.7

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1280748.9/16

Left Out: 0.415+/-0.000 χ^2/NDF :1442123.9/19

Right Out: 0.324+/-0.000 χ^2/NDF : 1220898.3/18

Left In: 0.420+/-0.000 χ^2/NDF :1118412.0/17

Left: 0.417+/-0.000 χ^2/NDF : 2562252.8/37

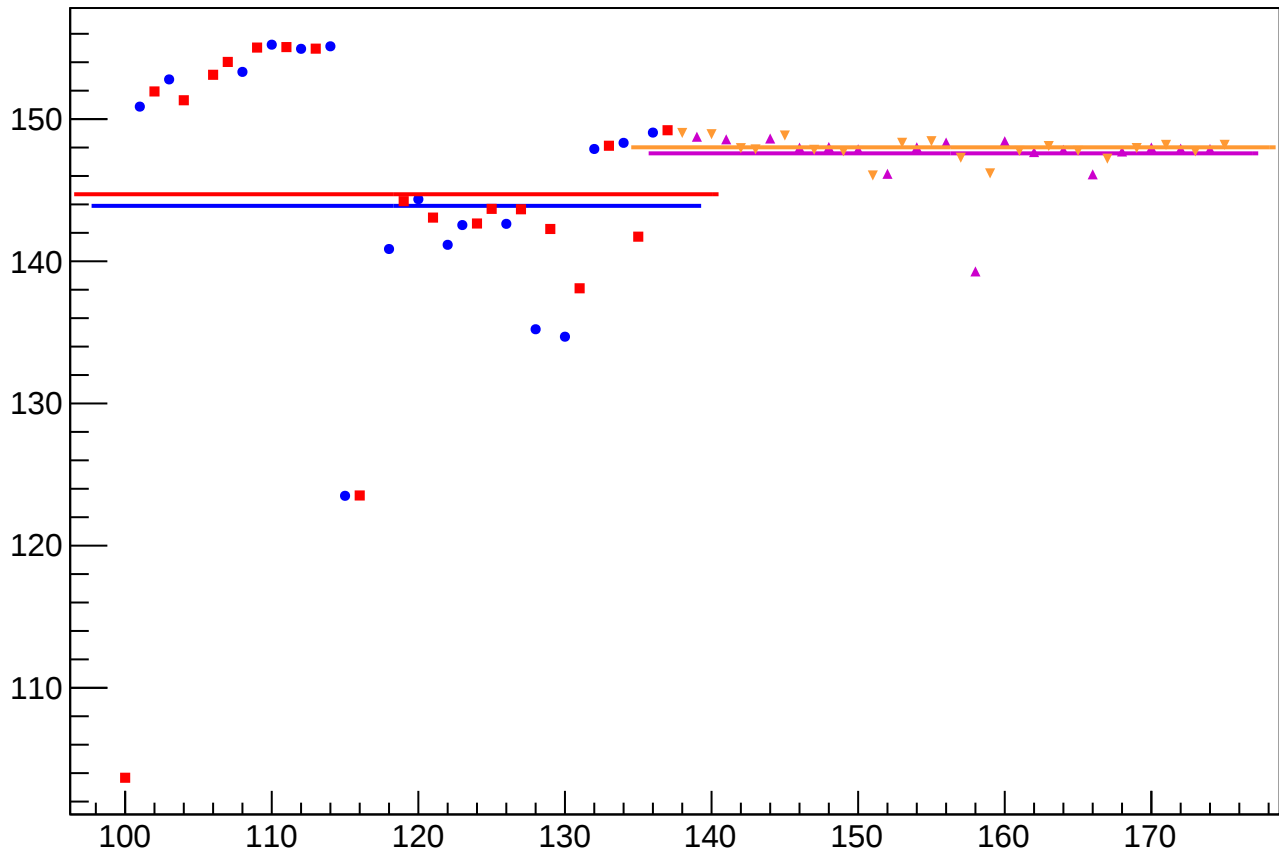
Right: 0.321+/-0.000 χ^2/NDF : 2503090.8/35

In: 0.376+/-0.000 χ^2/NDF :3044529.5/34

Out: 0.378+/-0.000 χ^2/NDF :3214292.2/38

All: 0.377+/-0.000 χ^2/NDF : 6258982.9/73

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.899 +/- 0.000 χ^2/NDF : 3749888331.0/16

Left Out: 148.016 +/- 0.000 χ^2/NDF : 51300128.9/19

Right Out: 144.715 +/- 0.000 χ^2/NDF : 4474458988.7/18

Left In: 147.591 +/- 0.000 χ^2/NDF : 324034396.9/17

Left: 147.813 +/- 0.000 χ^2/NDF : 382331257.7/37

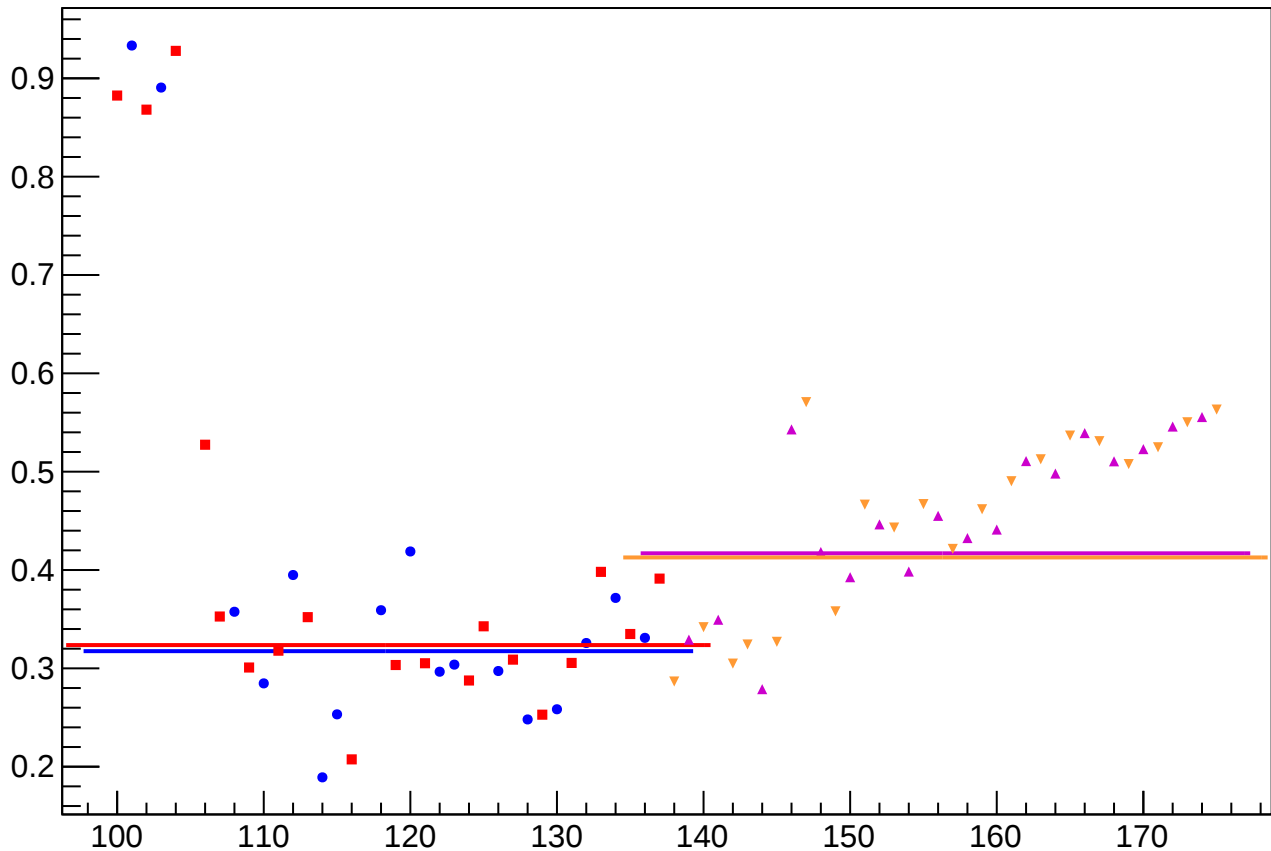
Right: 144.309 +/- 0.000 χ^2/NDF : 8242891510.2/35

In: 146.016 +/- 0.000 χ^2/NDF : 4506419479.7/34

Out: 146.668 +/- 0.000 χ^2/NDF : 4886467411.4/38

All: 146.351 +/- 0.000 χ^2/NDF : 9421226967.4

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2/NDF : 1293179.2/16

Left Out: 0.413 $\pm$ 0.000 χ^2/NDF : 1419050.5/19

Right Out: 0.324 $\pm$ 0.000 χ^2/NDF : 1221676.7/18

Left In: 0.417 $\pm$ 0.000 χ^2/NDF : 1104209.0/17

Left: 0.415 $\pm$ 0.000 χ^2/NDF : 2524625.6/37

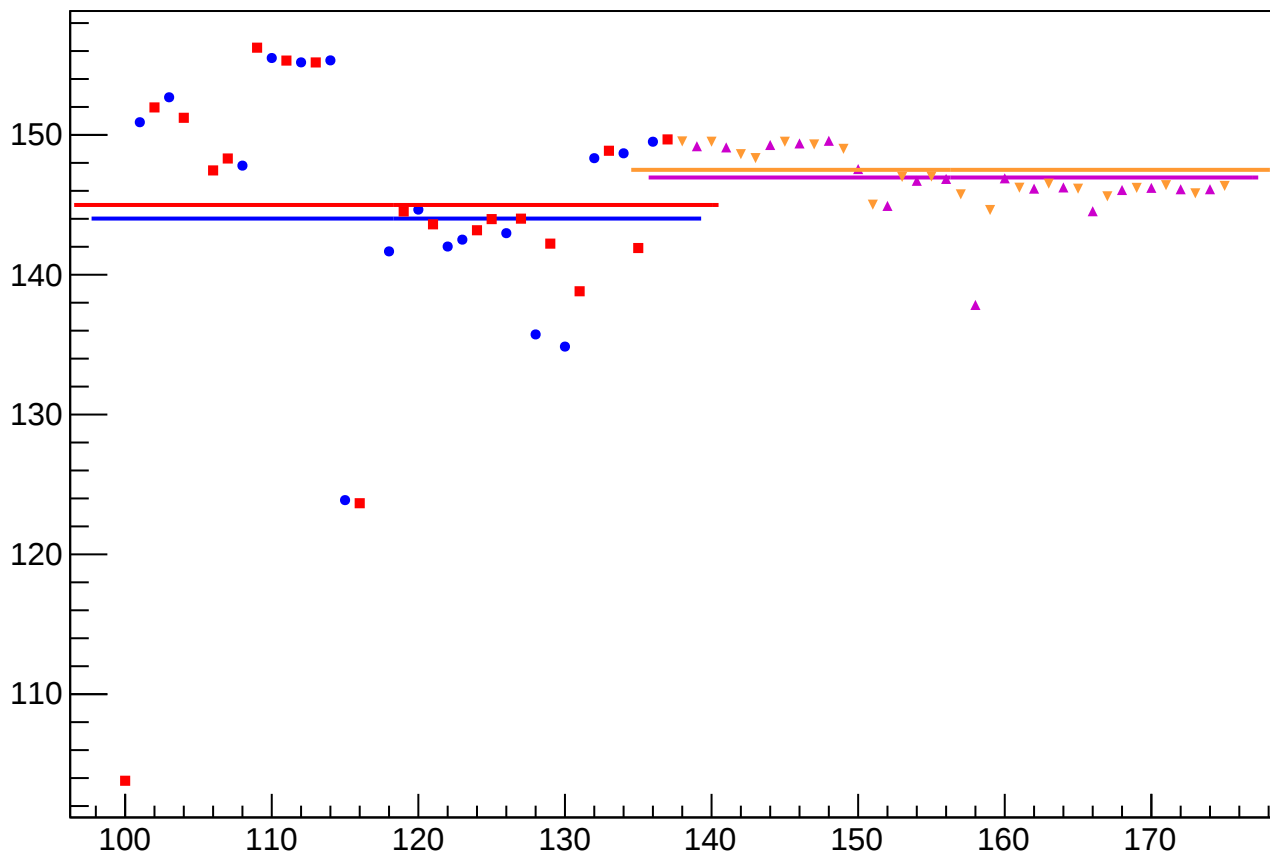
Right: 0.321 $\pm$ 0.000 χ^2/NDF : 2516974.9/35

In: 0.375 $\pm$ 0.000 χ^2/NDF : 3025145.6/34

Out: 0.376 $\pm$ 0.000 χ^2/NDF : 3166442.2/38

All: 0.375 $\pm$ 0.000 χ^2/NDF : 6192046.6/73

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.018 $\pm$ 0.000 χ^2 /NDF: 3238525527.6/16

Left Out: 147.503 $\pm$ 0.000 χ^2 /NDF: 211004632.8/19

Right Out: 144.990 $\pm$ 0.000 χ^2 /NDF: 3853449012.9/18

Left In: 146.955 $\pm$ 0.000 χ^2 /NDF: 506289020.8/17

Left: 147.241 $\pm$ 0.000 χ^2 /NDF: 728214886.4/37

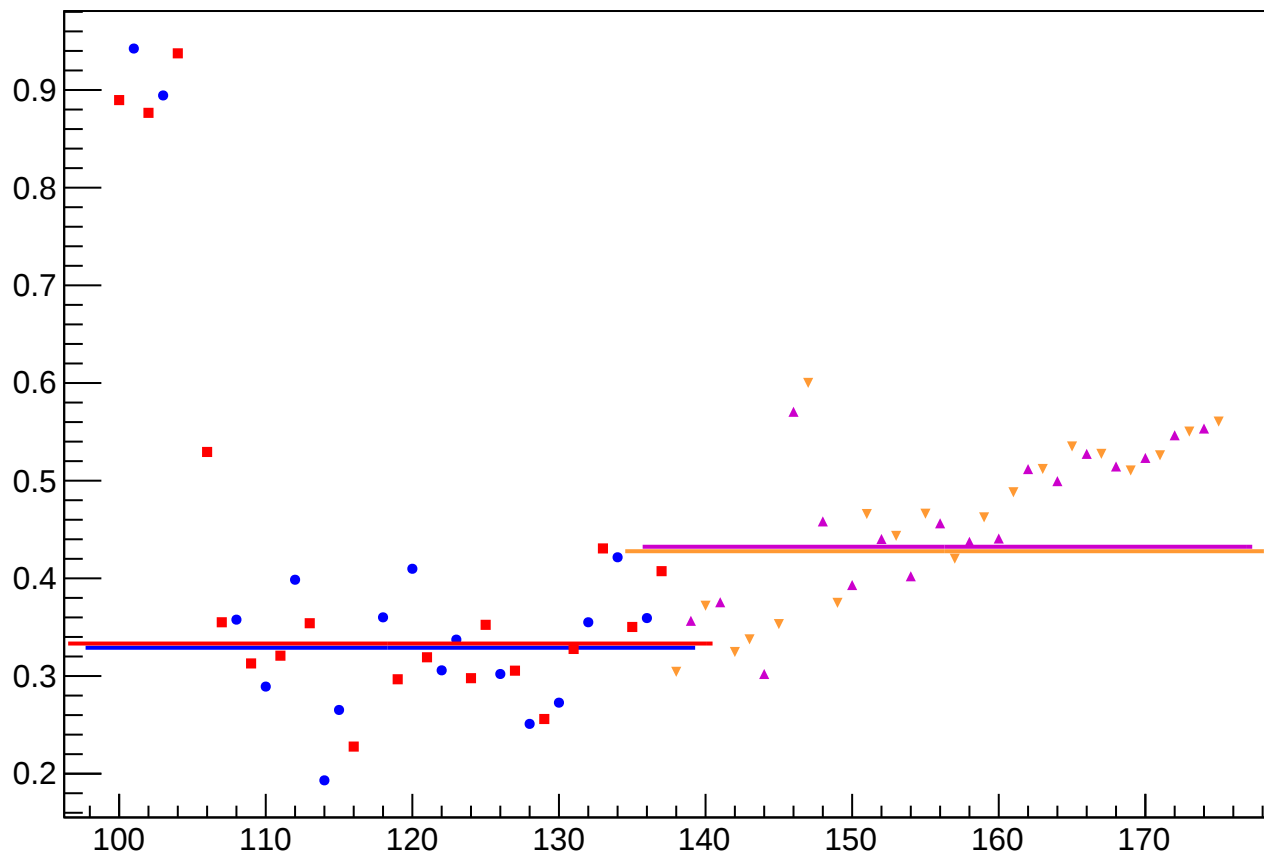
Right: 144.510 $\pm$ 0.000 χ^2 /NDF: 7116582298.0/35

In: 145.709 $\pm$ 0.000 χ^2 /NDF: 4000106240.2/34

Out: 146.474 $\pm$ 0.000 χ^2 /NDF: 4261055692.2/38

All: 146.103 $\pm$ 0.000 χ^2 /NDF: 8297718288.8

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2/NDF : 1276118.3/16

Left Out: 0.428 $\pm$ 0.000 χ^2/NDF : 1107373.1/19

Right Out: 0.333 $\pm$ 0.000 χ^2/NDF : 1182496.7/18

Left In: 0.432 $\pm$ 0.000 χ^2/NDF : 840042.9/17

Left: 0.430 $\pm$ 0.000 χ^2/NDF : 1948940.8/37

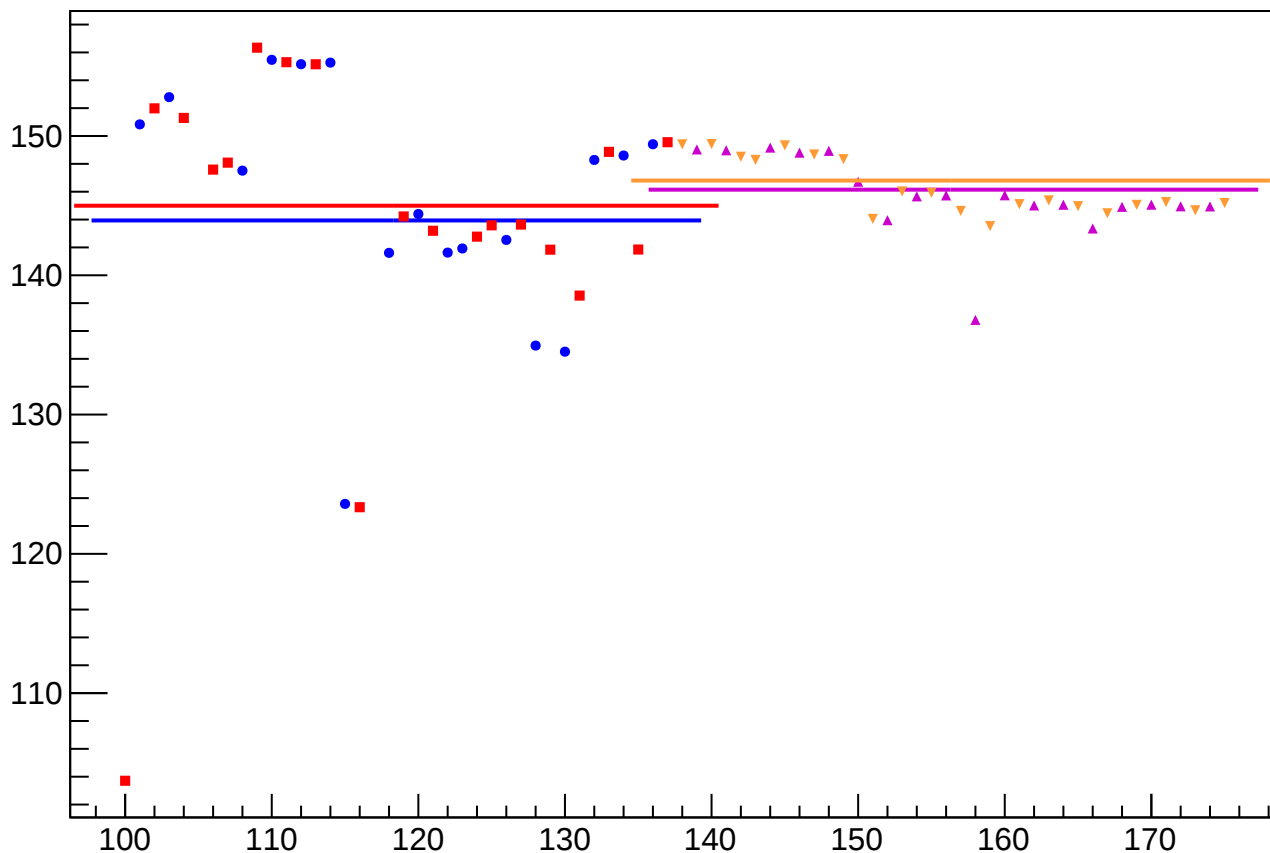
Right: 0.331 $\pm$ 0.000 χ^2/NDF : 2459580.1/35

In: 0.389 $\pm$ 0.000 χ^2/NDF : 2748863.0/34

Out: 0.389 $\pm$ 0.000 χ^2/NDF : 2846228.4/38

All: 0.389 $\pm$ 0.000 χ^2/NDF : 5595135.5/73

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.937 $\pm$ 0.000 χ^2 /NDF: 3379203532.9/16

Left Out: 146.802 $\pm$ 0.000 χ^2 /NDF: 329568633.9/19

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3934069043.2/18

Left In: 146.147 $\pm$ 0.000 χ^2 /NDF: 629096459.5/17

Left: 146.489 $\pm$ 0.000 χ^2 /NDF: 974216744.7/37

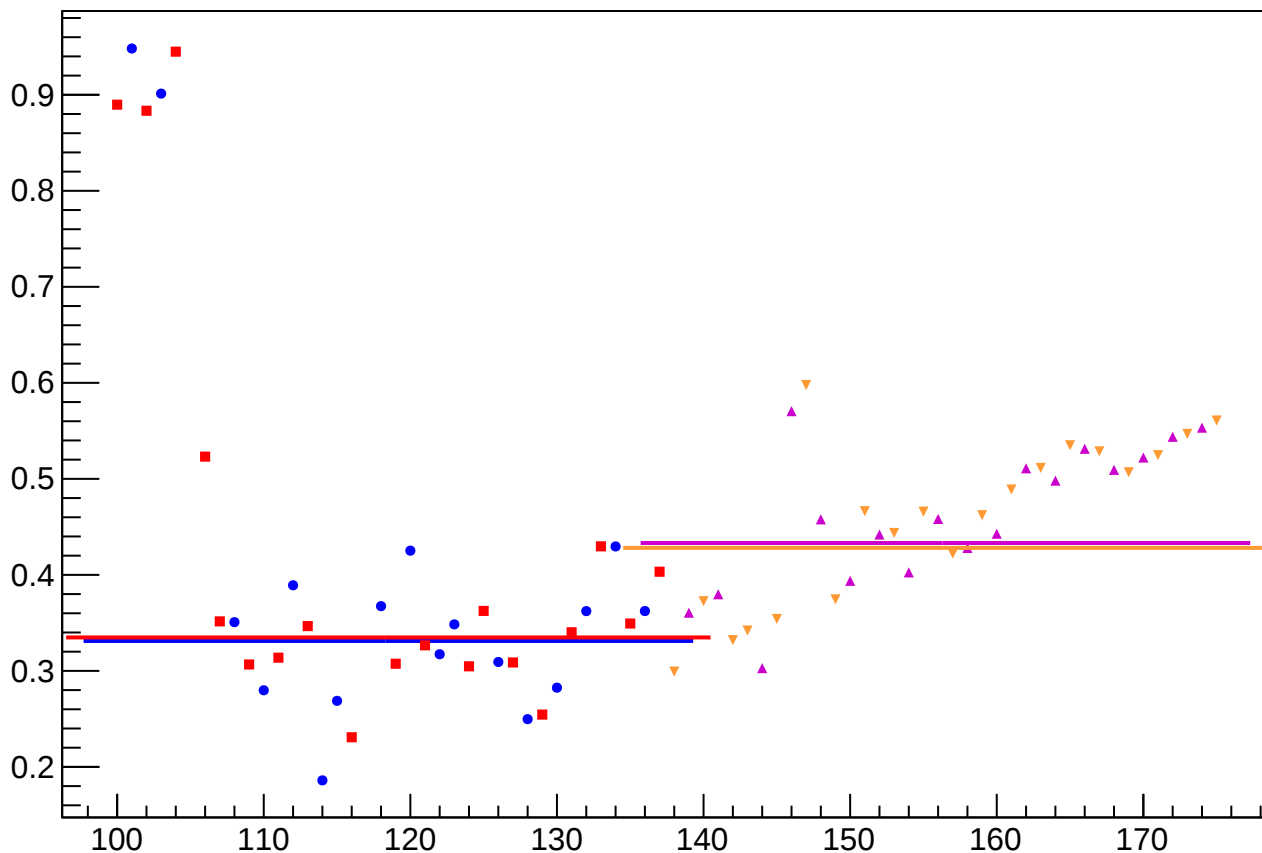
Right: 144.474 $\pm$ 0.000 χ^2 /NDF: 7341982360.6/35

In: 145.217 $\pm$ 0.000 χ^2 /NDF: 4151155420.1/34

Out: 146.066 $\pm$ 0.000 χ^2 /NDF: 4364545736.3/38

All: 145.655 $\pm$ 0.000 χ^2 /NDF: 8560388698.6

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 1295749.0/16

Left Out: 0.428+/-0.000 χ^2/NDF :1096431.0/19

Right Out: 0.335+/-0.000 χ^2/NDF : 1172239.8/18

Left In: 0.433+/-0.000 χ^2/NDF :811700.2/17

Left: 0.431+/-0.000 χ^2/NDF : 1909983.9/37

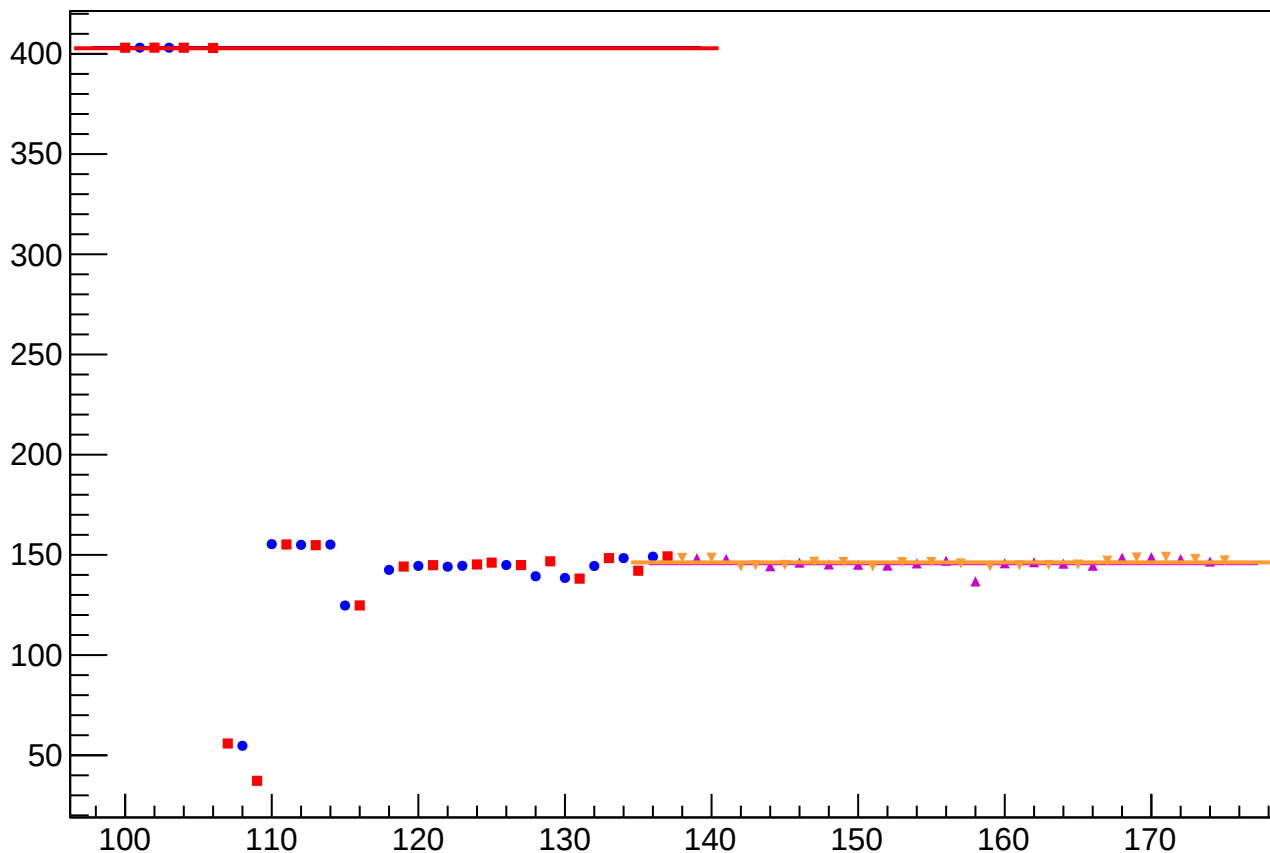
Right: 0.333+/-0.000 χ^2/NDF : 2468673.8/35

In: 0.390+/-0.000 χ^2/NDF :2716013.6/34

Out: 0.390+/-0.000 χ^2/NDF :2806640.6/38

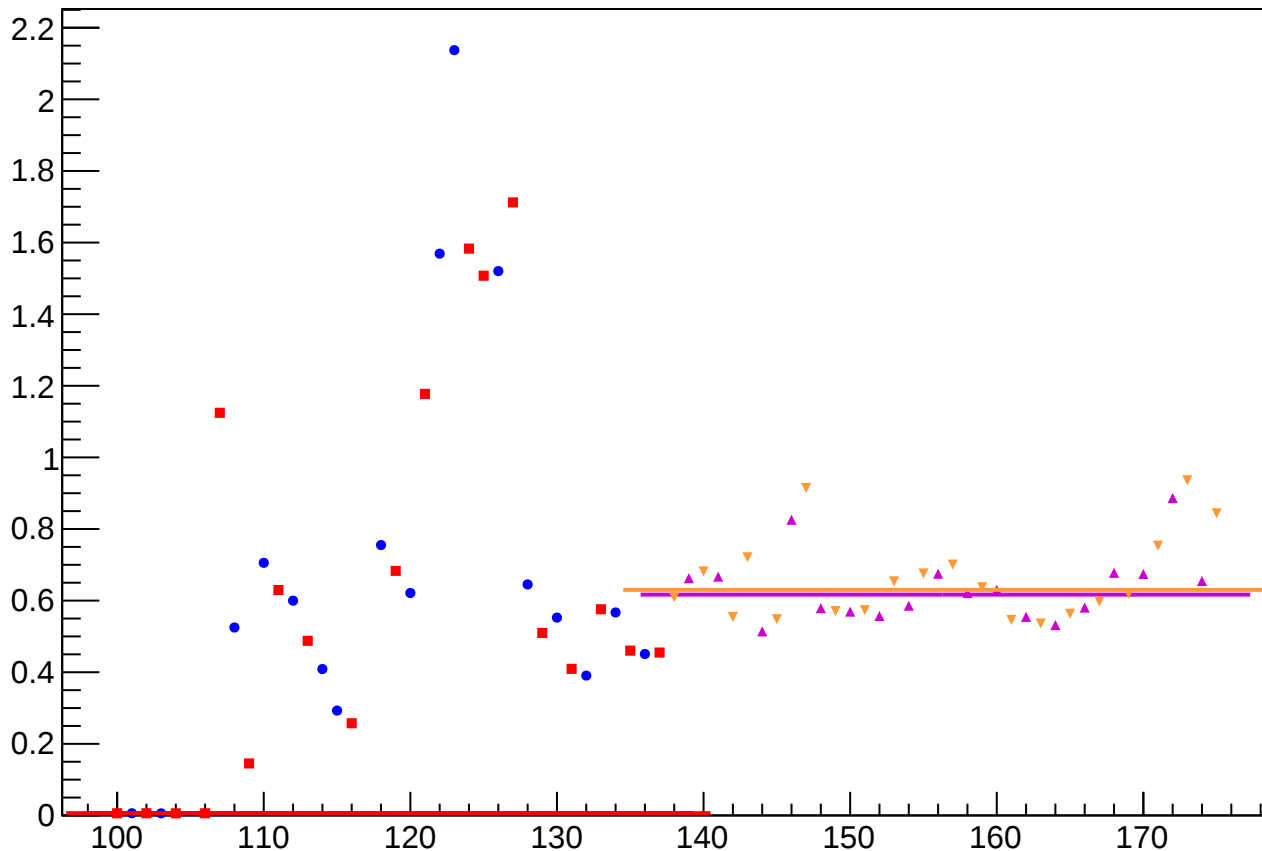
All: 0.390+/-0.000 χ^2/NDF : 5522655.5/73

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1096710296821.6/16	Left: 146.055+/-0.000	χ^2/NDF : 245602513.5/37
Left Out: 146.264+/-0.000	χ^2/NDF : 73655962.7/19	Right: 402.873+/-0.000	χ^2/NDF : 4201017642924.7/16
Right Out: 402.799+/-0.000	χ^2/NDF : 3103890772575.4/18	In: 402.731+/-0.000	χ^2/NDF : 2908982349268.2/34
Left In: 145.842+/-0.000	χ^2/NDF : 169470525.9/17	Out: 402.594+/-0.000	χ^2/NDF : 4957301156181.9/34
		All: 402.658+/-0.000	χ^2/NDF : 786659570469.5/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9161050.1/16

Left Out: 0.630+/-0.000 χ^2/NDF :548137.7/19

Right Out: 0.006+/-0.000 χ^2/NDF : 9212402.0/18

Left In: 0.617+/-0.000 χ^2/NDF :345802.4/17

Left: 0.623+/-0.000 χ^2/NDF : 898860.9/37

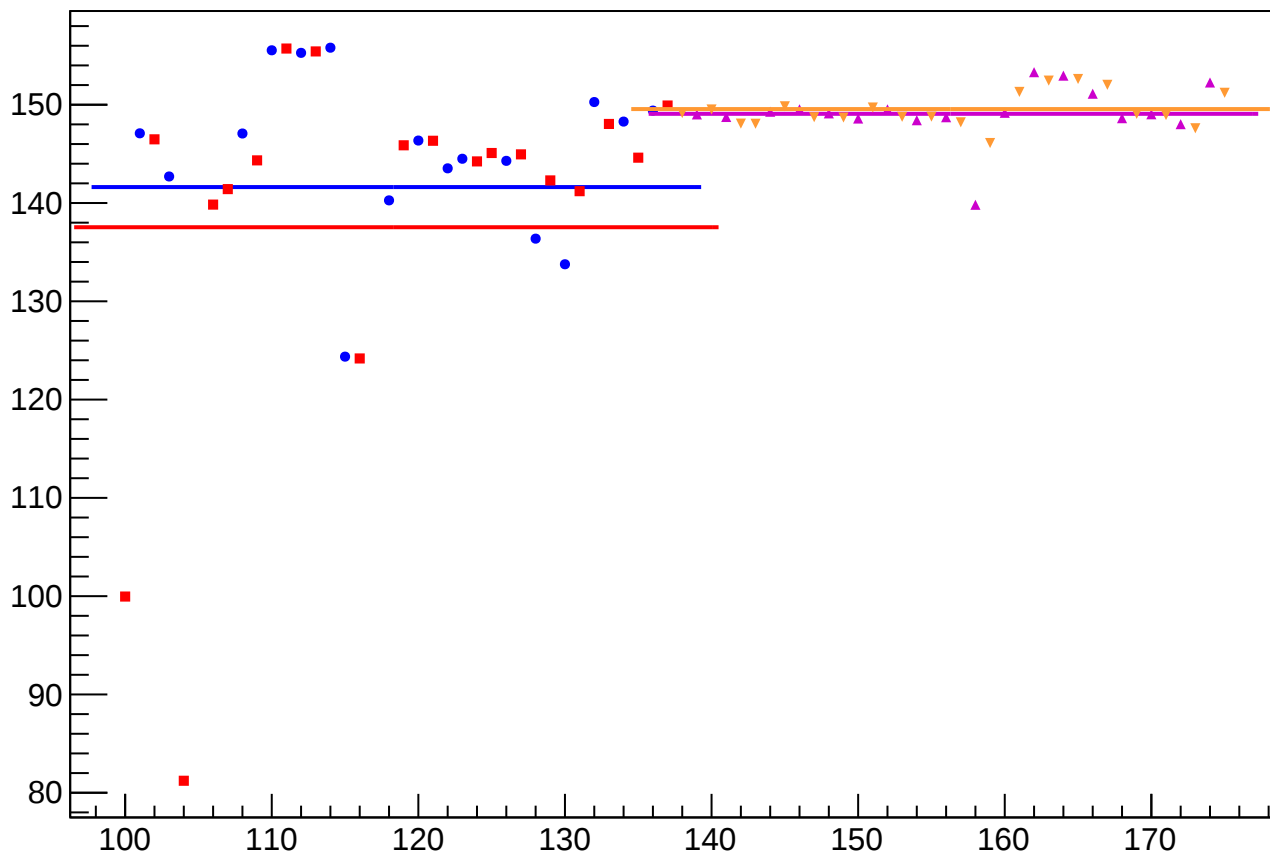
Right: 0.006+/-0.000 χ^2/NDF : 18373456.3/35

In: 0.007+/-0.000 χ^2/NDF :29933882.4/34

Out: 0.007+/-0.000 χ^2/NDF :31672592.0/38

All: 0.007+/-0.000 χ^2/NDF : 61606558.3/73

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.622 +/- 0.000 χ^2/NDF : 982037737.7/16

Left Out: 149.558 +/- 0.000 χ^2/NDF : 126381907.7/19

Right Out: 137.536 +/- 0.000 χ^2/NDF : 1315768553.6/18

Left In: 149.075 +/- 0.000 χ^2/NDF : 384728032.5/17

Left: 149.324 +/- 0.000 χ^2/NDF : 515842000.9/37

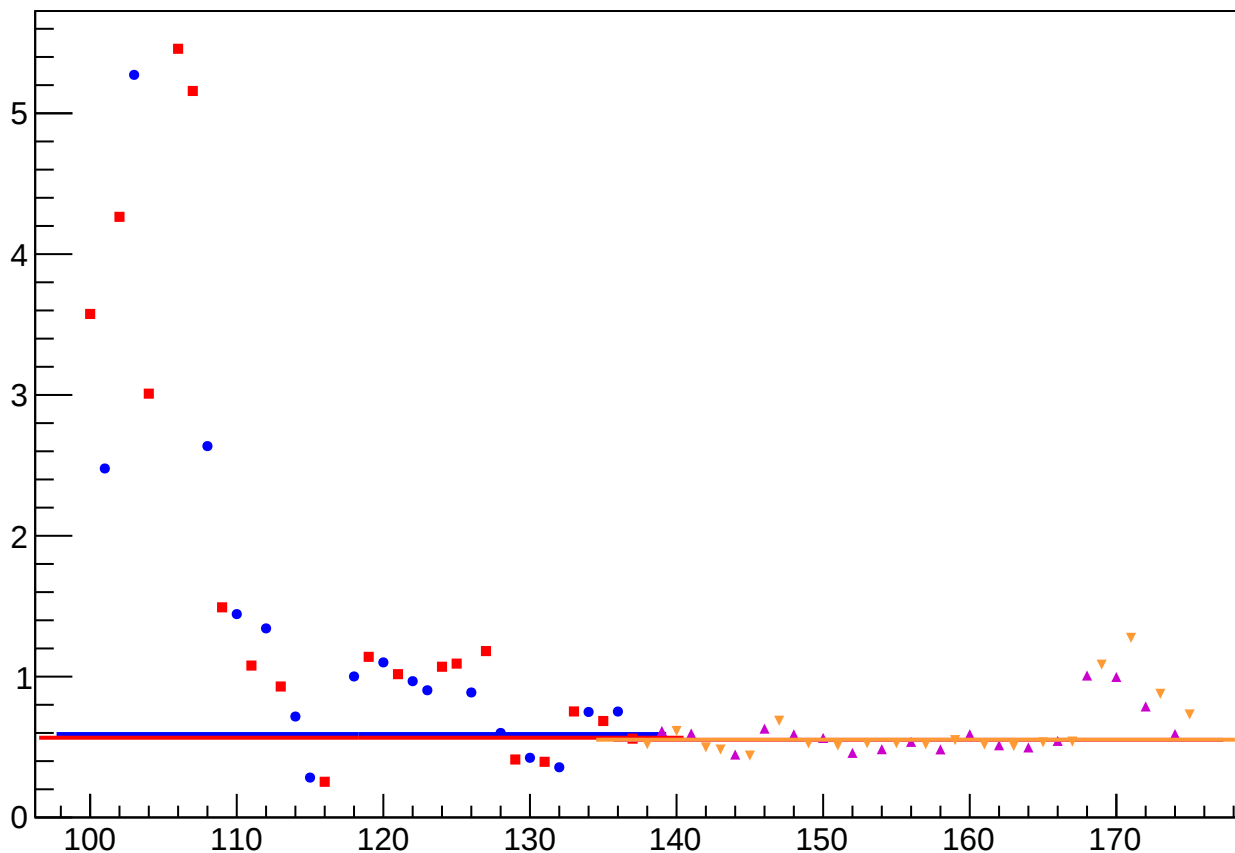
Right: 139.530 +/- 0.000 χ^2/NDF : 2384319562.8/35

In: 147.548 +/- 0.000 χ^2/NDF : 1813685641.2/34

Out: 147.118 +/- 0.000 χ^2/NDF : 2665557570.3/38

All: 147.327 +/- 0.000 χ^2/NDF : 4483943416.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3521577.2/16

Left Out: 0.552 $\pm$ 0.000 χ^2 /NDF: 1310721.7/19

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4682140.9/18

Left In: 0.551 $\pm$ 0.000 χ^2 /NDF: 961317.3/17

Left: 0.551 $\pm$ 0.000 χ^2 /NDF: 2272118.8/37

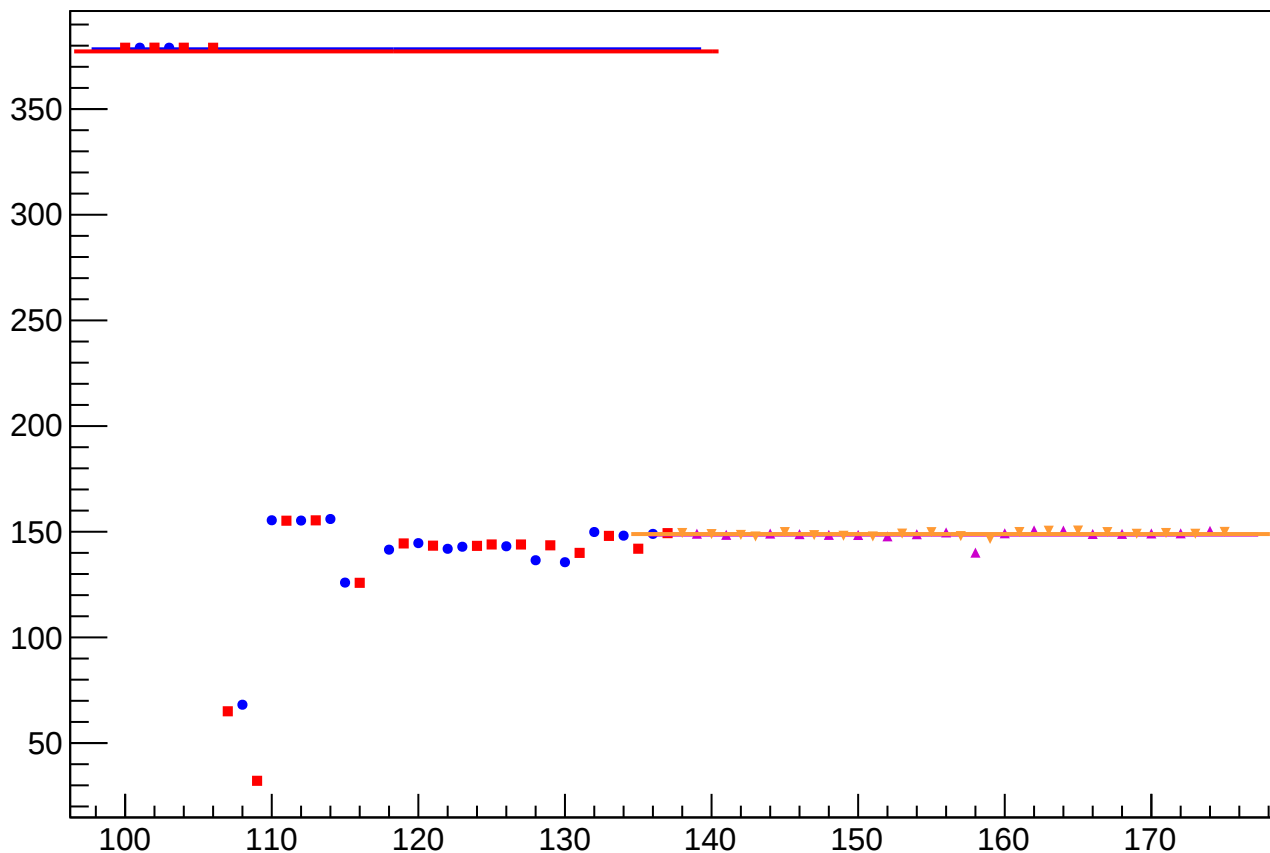
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8210771.7/35

In: 0.559 $\pm$ 0.000 χ^2 /NDF: 4510600.7/34

Out: 0.555 $\pm$ 0.000 χ^2 /NDF: 5996180.6/38

All: 0.557 $\pm$ 0.000 χ^2 /NDF: 10507700.9/73

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.281+/-0.000 χ^2/NDF : 2512261599188.1/16

Left Out: 148.903+/-0.000 χ^2/NDF : 62991493.4/19

Right Out: 377.289+/-0.000 χ^2/NDF : 8279468194444.1/18

Left In: 148.647+/-0.000 χ^2/NDF : 242021826.9/17

Left: 148.782+/-0.000 χ^2/NDF : 307047875.6/37

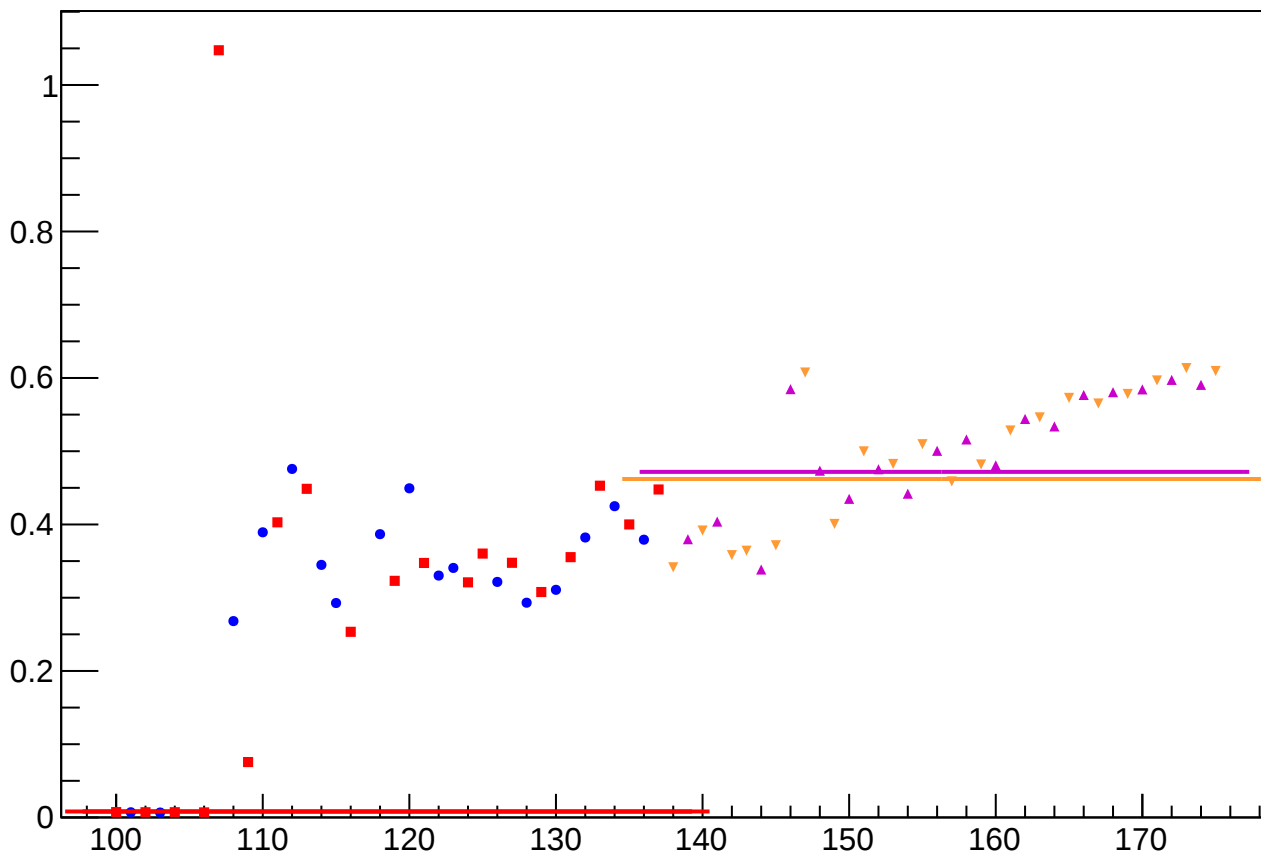
Right: 377.753+/-0.000 χ^2/NDF : 10798714881373.1/16

In: 377.269+/-0.000 χ^2/NDF : 5608889962966.9/34

Out: 376.306+/-0.000 χ^2/NDF : 11688278145128.4/16

All: 376.756+/-0.000 χ^2/NDF : 17303772208.1/37

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9885759.8/16

Left Out: 0.462 $\pm$ 0.000 χ^2 /NDF: 1105193.7/19

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9535410.6/18

Left In: 0.472 $\pm$ 0.000 χ^2 /NDF: 792470.8/17

Left: 0.467 $\pm$ 0.000 χ^2 /NDF: 1903533.3/37

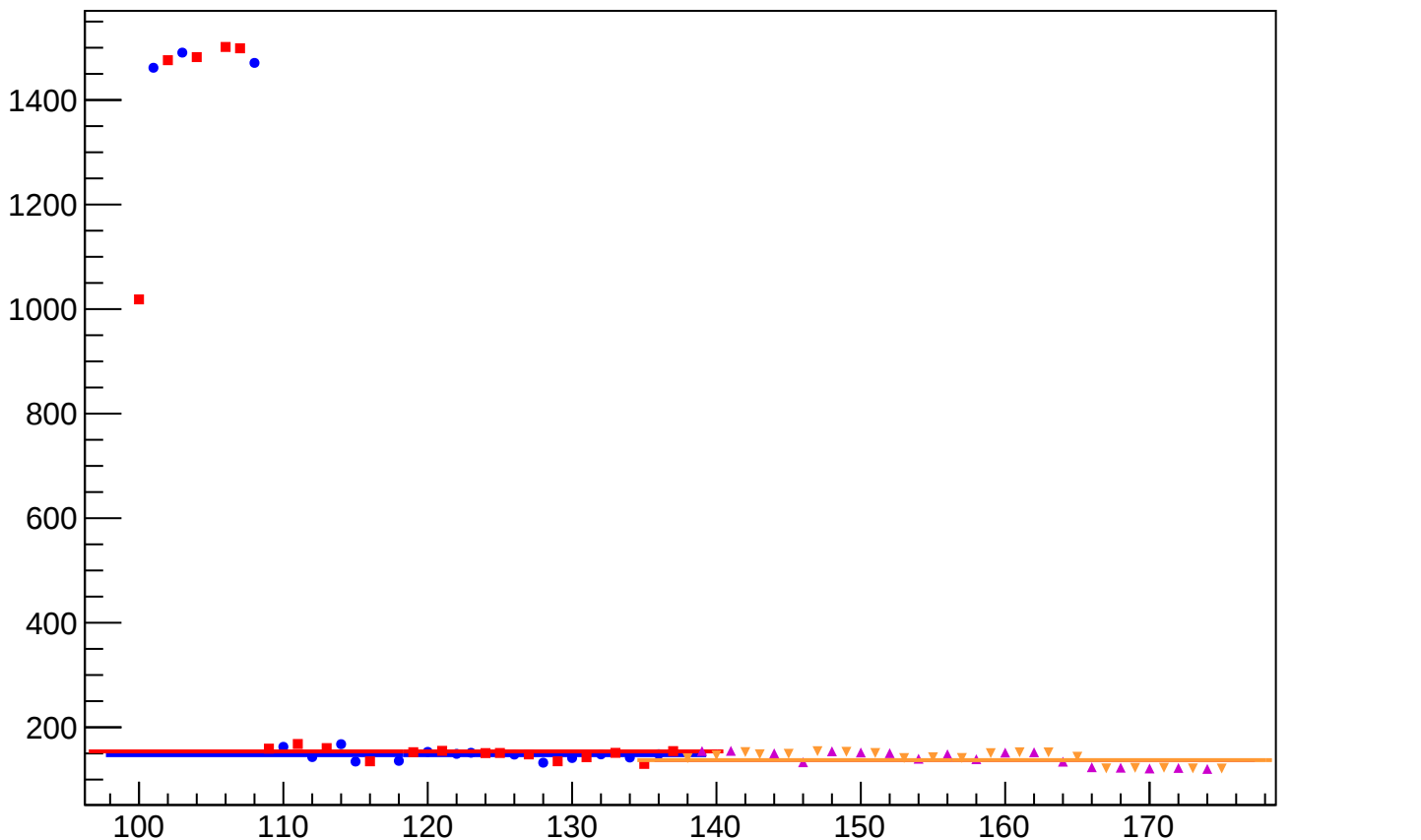
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19421175.8/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 35927660.9/34

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 37573808.3/38

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 73501541.3/73

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.723+/-0.000

χ^2/NDF : 24350870553.3/16

Left: 137.113+/-0.000 χ^2/NDF : 6438130502.0/37

Right: 150.283+/-0.000 χ^2/NDF : 58225591435.1/35

Left Out: 137.224+/-0.000

χ^2/NDF : 3270427209.9/19

In: 139.294+/-0.000 χ^2/NDF : 27905267156.2/34

Right Out: 153.887+/-0.000 χ^2/NDF : 33738118250.9/18

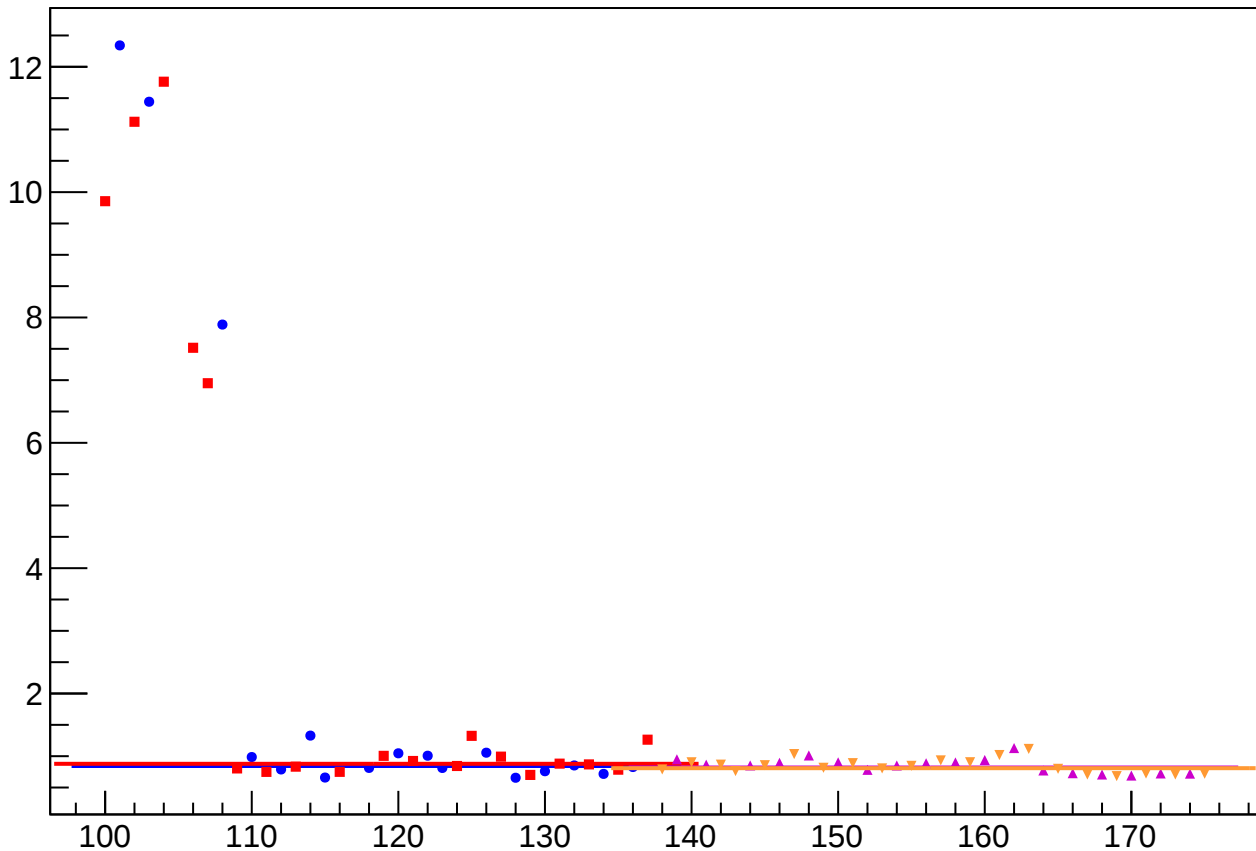
Out: 140.854+/-0.000 χ^2/NDF : 38157697167.9/38

Left In: 136.991+/-0.000

χ^2/NDF : 3167214966.3/17

All: 140.101+/-0.000 χ^2/NDF : 66091497659.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.844+/-0.000 χ^2/NDF : 2670470.7/16

Left Out: 0.809+/-0.000 χ^2/NDF : 448006.2/19

Right Out: 0.878+/-0.000 χ^2/NDF : 2812500.6/18

Left In: 0.820+/-0.000 χ^2/NDF : 402566.7/17

Left: 0.814+/-0.000 χ^2/NDF : 852759.9/37

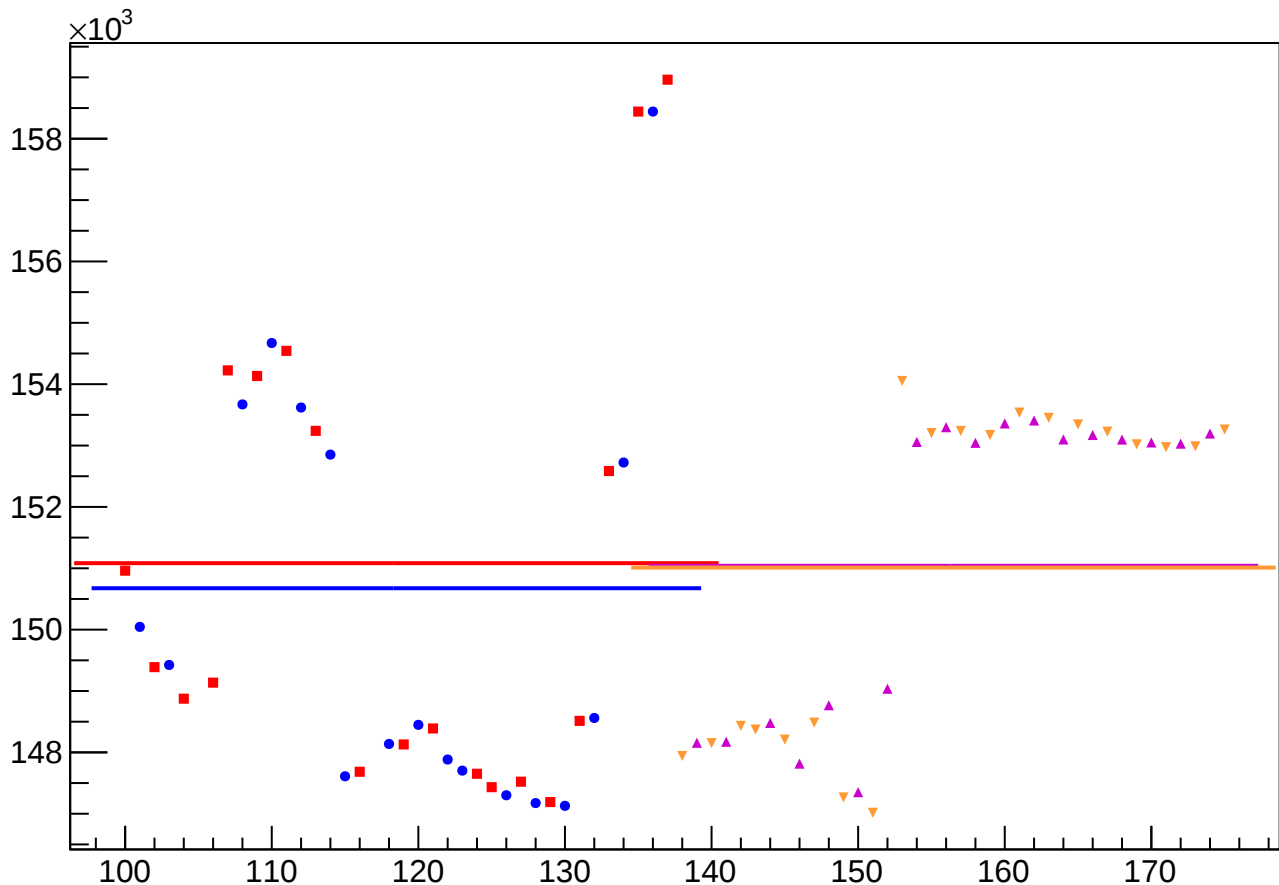
Right: 0.861+/-0.000 χ^2/NDF : 5489376.5/35

In: 0.825+/-0.000 χ^2/NDF : 3077778.9/34

Out: 0.824+/-0.000 χ^2/NDF : 3300789.5/38

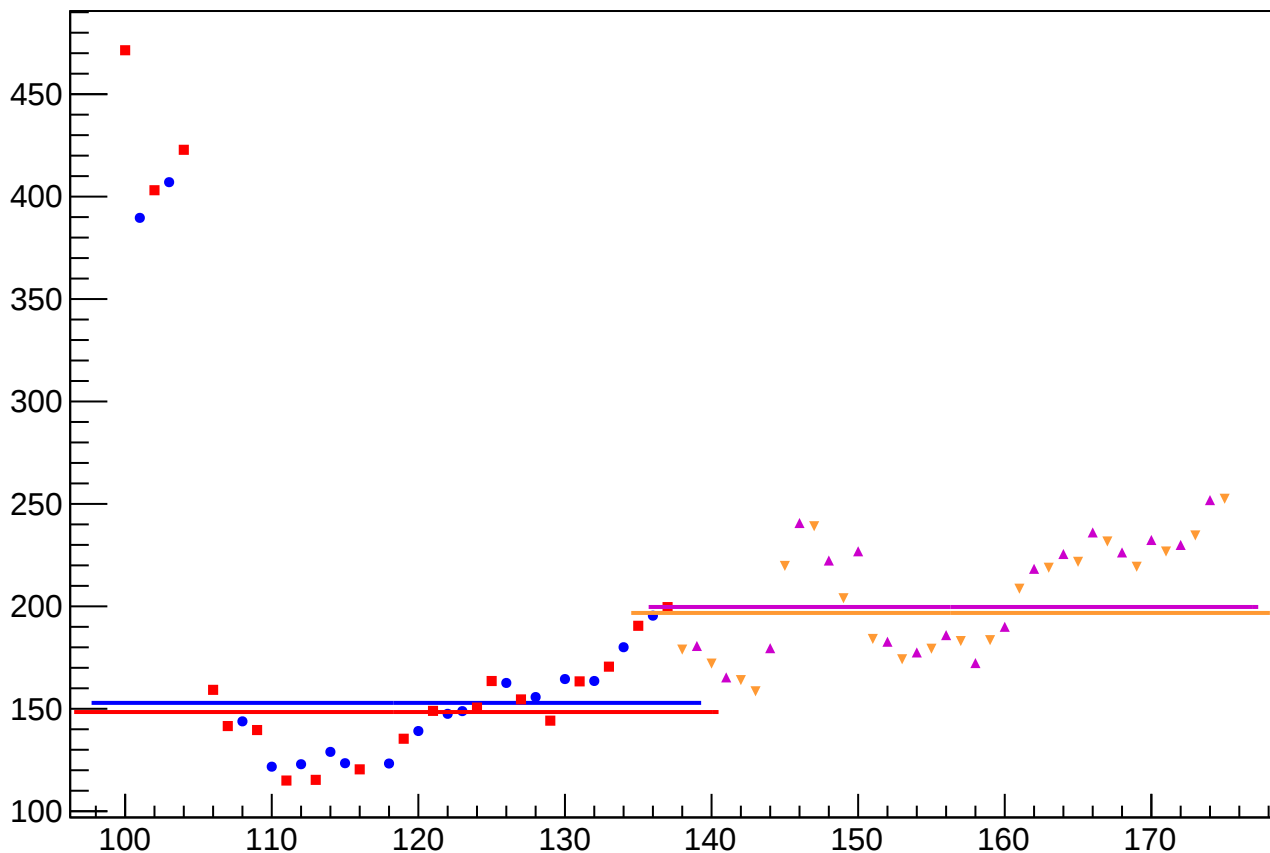
All: 0.824+/-0.000 χ^2/NDF : 6378620.4/73

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150675.025 $\pm$ 0.063 χ^2 /NDF: 3309974859.4/16
 Left Out: 151011.181 $\pm$ 0.051 χ^2 /NDF: 2734986250.9/19
 Right Out: 151083.268 $\pm$ 0.060 χ^2 /NDF: 3300830370.5/18
 Left In: 151040.042 $\pm$ 0.054 χ^2 /NDF: 2010624045.6/17
 Left: 151024.844 $\pm$ 0.037 χ^2 /NDF: 4745759036.1/3
 Right: 150890.022 $\pm$ 0.043 χ^2 /NDF: 6632946370.1/3
 In: 150884.333 $\pm$ 0.041 χ^2 /NDF: 5339871804.5/34
 Out: 151041.935 $\pm$ 0.039 χ^2 /NDF: 6036652867.1/3
 All: 150967.329 $\pm$ 0.028 χ^2 /NDF: 113842597.1/100

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.883 $\pm$ 0.045 χ^2 /NDF: 1154088.7/16

Left Out: 196.784 $\pm$ 0.036 χ^2 /NDF: 522457.1/19

Right Out: 148.418 $\pm$ 0.042 χ^2 /NDF: 1191577.6/18

Left In: 199.698 $\pm$ 0.038 χ^2 /NDF: 483038.6/17

Left: 198.163 $\pm$ 0.026 χ^2 /NDF: 1008527.8/37

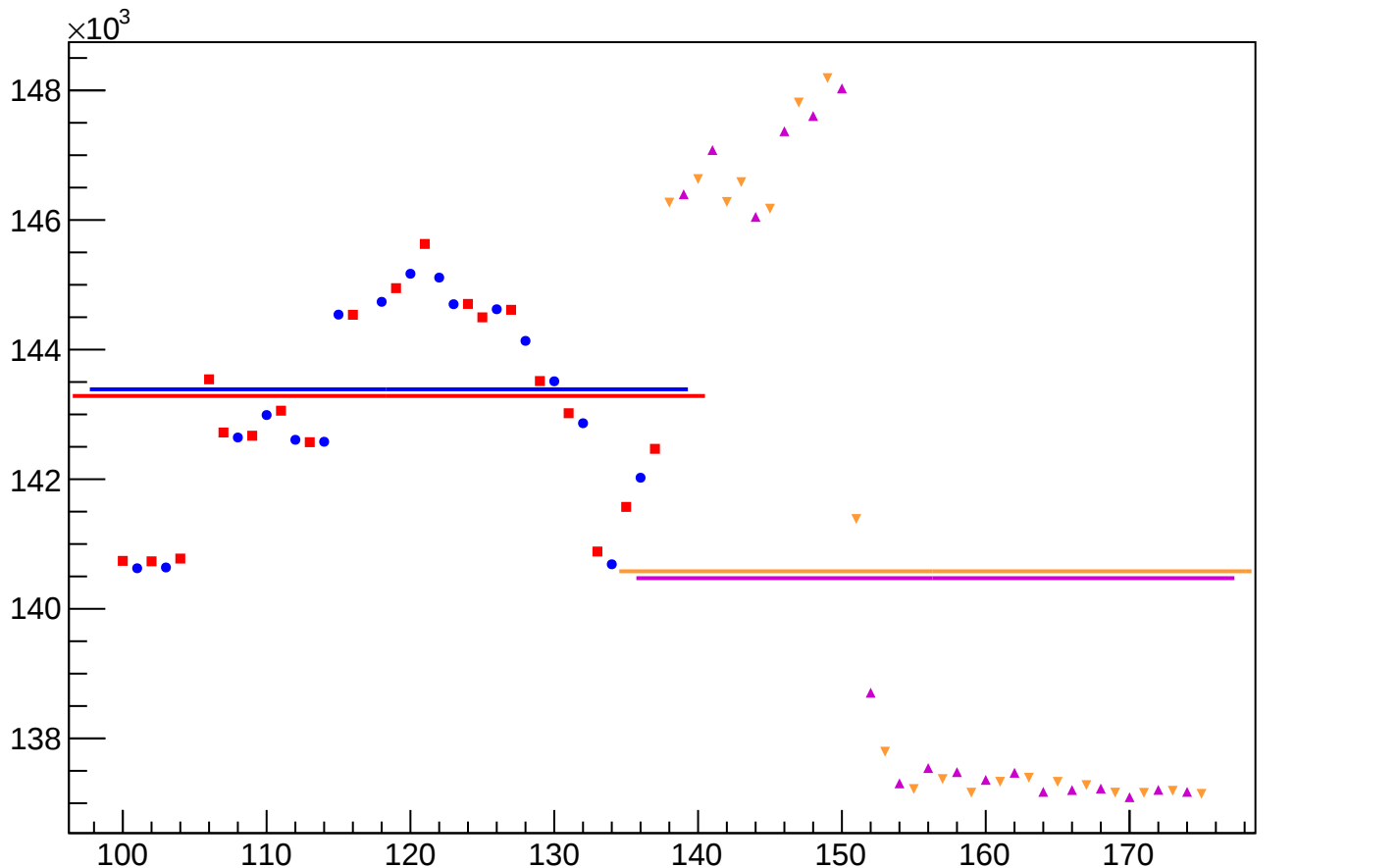
Right: 150.532 $\pm$ 0.031 χ^2 /NDF: 2350963.4/35

In: 179.728 $\pm$ 0.029 χ^2 /NDF: 2271166.6/34

Out: 176.150 $\pm$ 0.028 χ^2 /NDF: 2466906.8/38

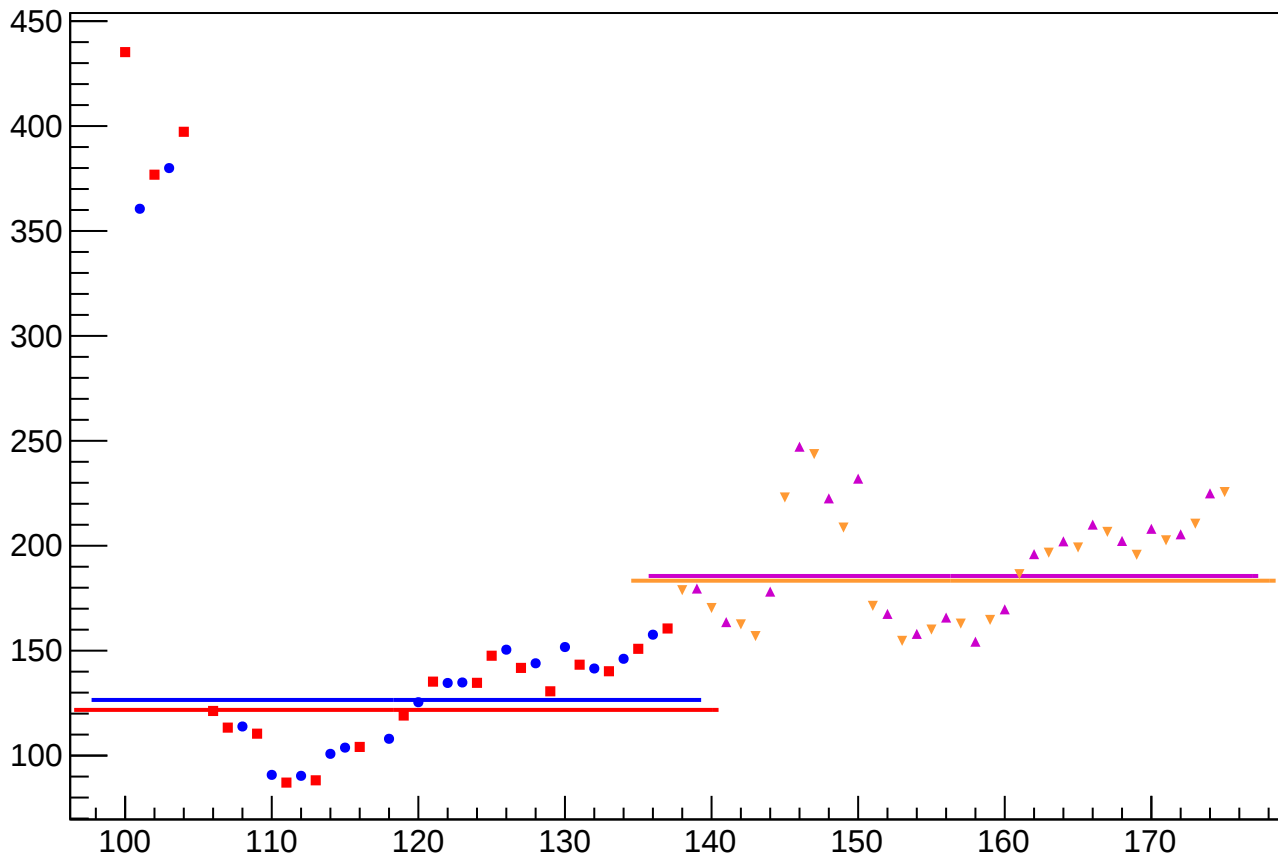
All: 177.844 $\pm$ 0.020 χ^2 /NDF: 4746044.8/73

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143387.099 $\pm$ 0.053 χ^2 /NDF: 521299875.7/16
 Left Out: 140579.395 $\pm$ 0.048 χ^2 /NDF: 8282326079.0/19
 Right Out: 143284.757 $\pm$ 0.049 χ^2 /NDF: 608634820.1/18
 Left In: 140472.902 $\pm$ 0.051 χ^2 /NDF: 7719389586.9/17
 Left: 140528.911 $\pm$ 0.035 χ^2 /NDF: 16004049881.1
 Right: 143332.291 $\pm$ 0.036 χ^2 /NDF: 1131952524.8
 In: 141868.674 $\pm$ 0.036 χ^2 /NDF: 9832522791.8/34
 Out: 141901.177 $\pm$ 0.034 χ^2 /NDF: 10443542135.8
 All: 141885.920 $\pm$ 0.025 χ^2 /NDF: 20276485

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.514 $\pm$ 0.037 χ^2 /NDF: 1441685.0/16

Left Out: 183.341 $\pm$ 0.034 χ^2 /NDF: 504145.3/19

Right Out: 121.772 $\pm$ 0.035 χ^2 /NDF: 1463829.4/18

Left In: 185.592 $\pm$ 0.036 χ^2 /NDF: 531145.2/17

Left: 184.408 $\pm$ 0.025 χ^2 /NDF: 1037376.4/37

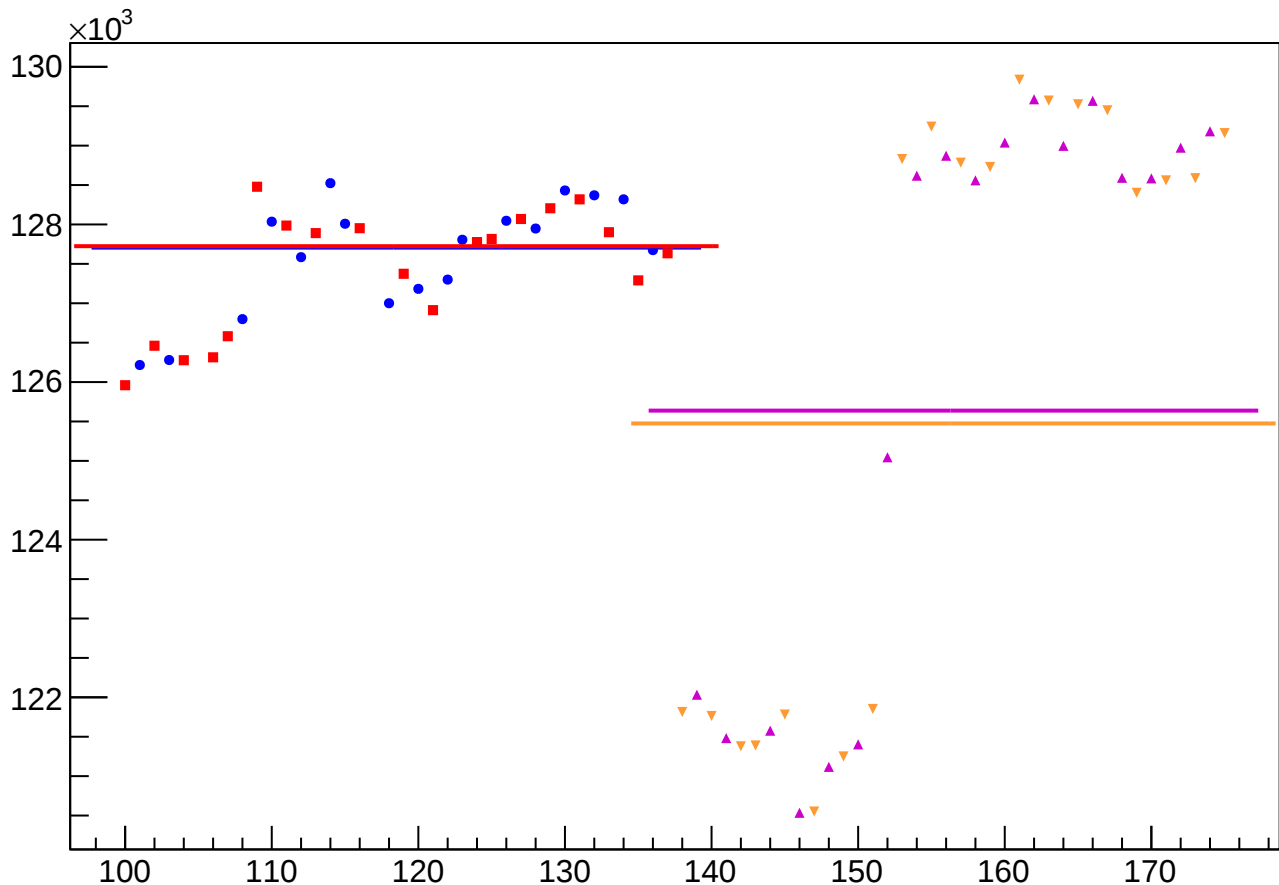
Right: 123.975 $\pm$ 0.025 χ^2 /NDF: 2914178.1/35

In: 157.296 $\pm$ 0.026 χ^2 /NDF: 3281250.8/34

Out: 153.260 $\pm$ 0.024 χ^2 /NDF: 3576251.0/38

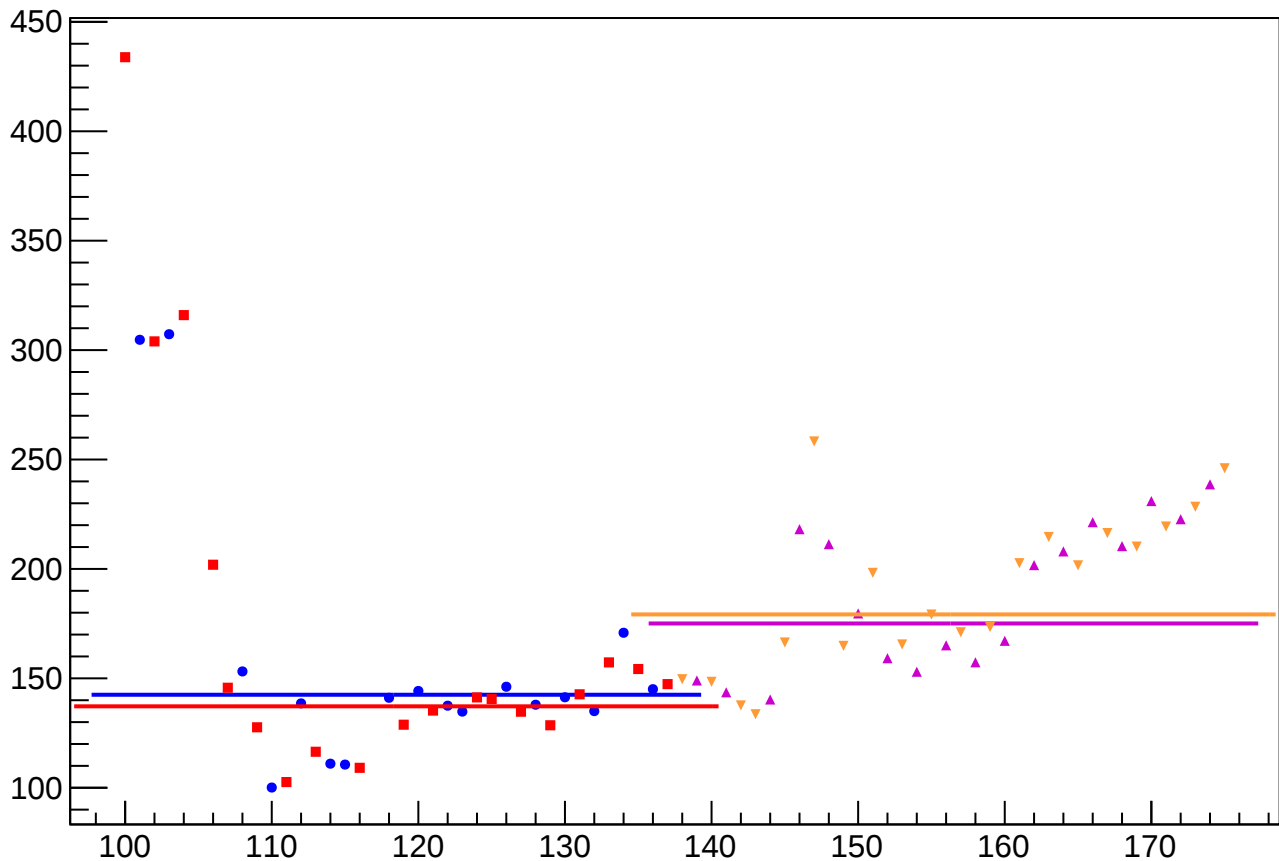
All: 155.155 $\pm$ 0.018 χ^2 /NDF: 6870488.2/73

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127706.194 $\pm$ 0.058 χ^2 /NDF: 97860521.1/16
 Left Out: 125474.929 $\pm$ 0.048 χ^2 /NDF: 6248249618.6/19
 Right Out: 127724.256 $\pm$ 0.055 χ^2 /NDF: 112614317.2/18
 Left In: 125637.870 $\pm$ 0.048 χ^2 /NDF: 5475199256.7/17
 Left: 125555.377 $\pm$ 0.034 χ^2 /NDF: 11729247392.3
 Right: 127715.791 $\pm$ 0.040 χ^2 /NDF: 210526259.6/3
 In: 126480.660 $\pm$ 0.037 χ^2 /NDF: 6325030254.6/34
 Out: 126446.472 $\pm$ 0.036 χ^2 /NDF: 7327554501.0/3
 All: 126462.991 $\pm$ 0.026 χ^2 /NDF: 136530245

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.502 $\pm$ 0.041 χ^2 /NDF: 836263.7/16

Left Out: 179.213 $\pm$ 0.034 χ^2 /NDF: 938412.6/19

Right Out: 137.211 $\pm$ 0.039 χ^2 /NDF: 957317.1/18

Left In: 175.076 $\pm$ 0.034 χ^2 /NDF: 821382.1/17

Left: 177.170 $\pm$ 0.024 χ^2 /NDF: 1767270.2/37

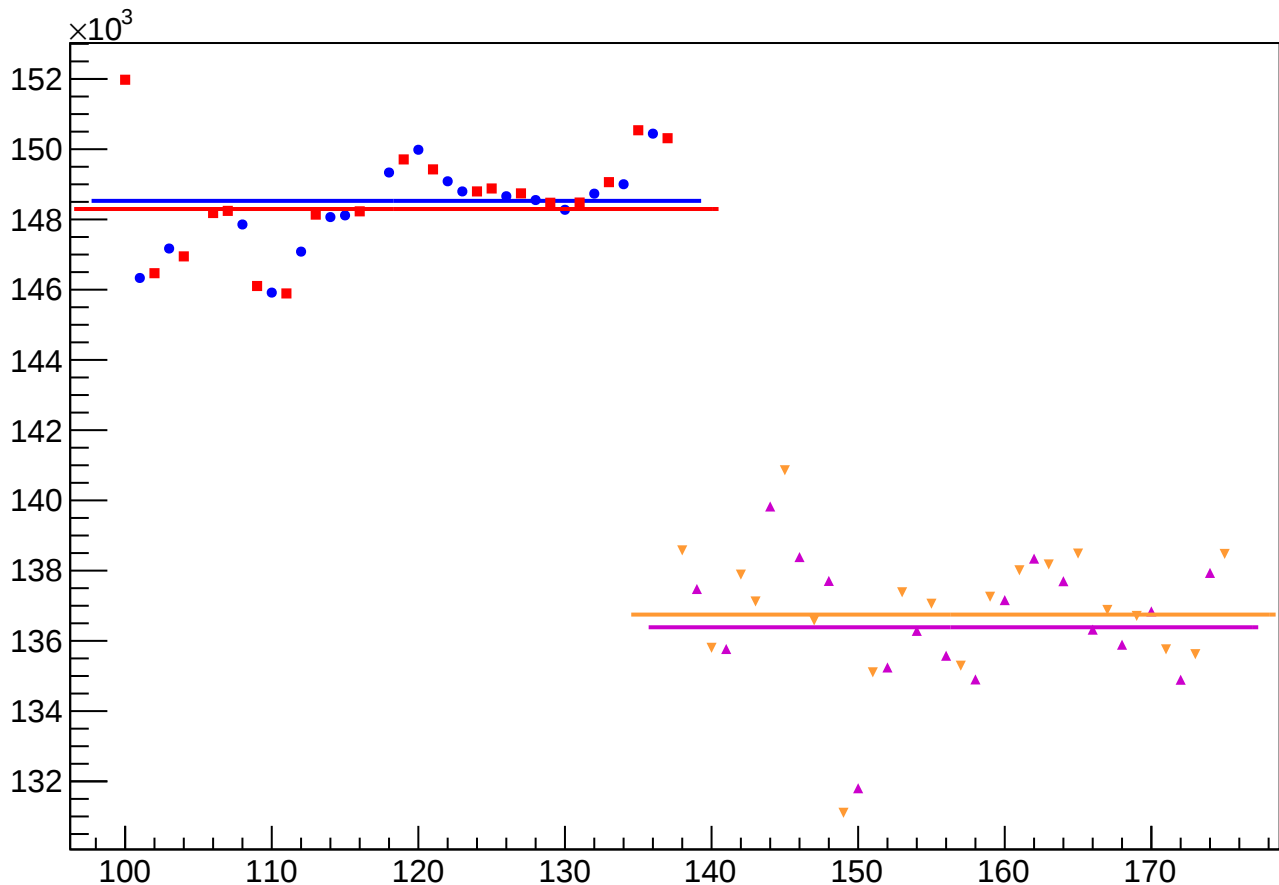
Right: 139.691 $\pm$ 0.028 χ^2 /NDF: 1802403.2/35

In: 161.803 $\pm$ 0.026 χ^2 /NDF: 2030670.6/34

Out: 161.071 $\pm$ 0.025 χ^2 /NDF: 2569843.1/38

All: 161.425 $\pm$ 0.018 χ^2 /NDF: 4600916.1/73

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148528.851 $\pm$ 0.082 χ^2 /NDF: 209986594.2/16

Left Out: 136748.281 $\pm$ 0.070 χ^2 /NDF: 866017548.2/19

Right Out: 148297.126 $\pm$ 0.076 χ^2 /NDF: 293244556.5/18

Left In: 136387.243 $\pm$ 0.071 χ^2 /NDF: 671803818.3/17

Left: 136570.658 $\pm$ 0.050 χ^2 /NDF: 1551050817.3/3

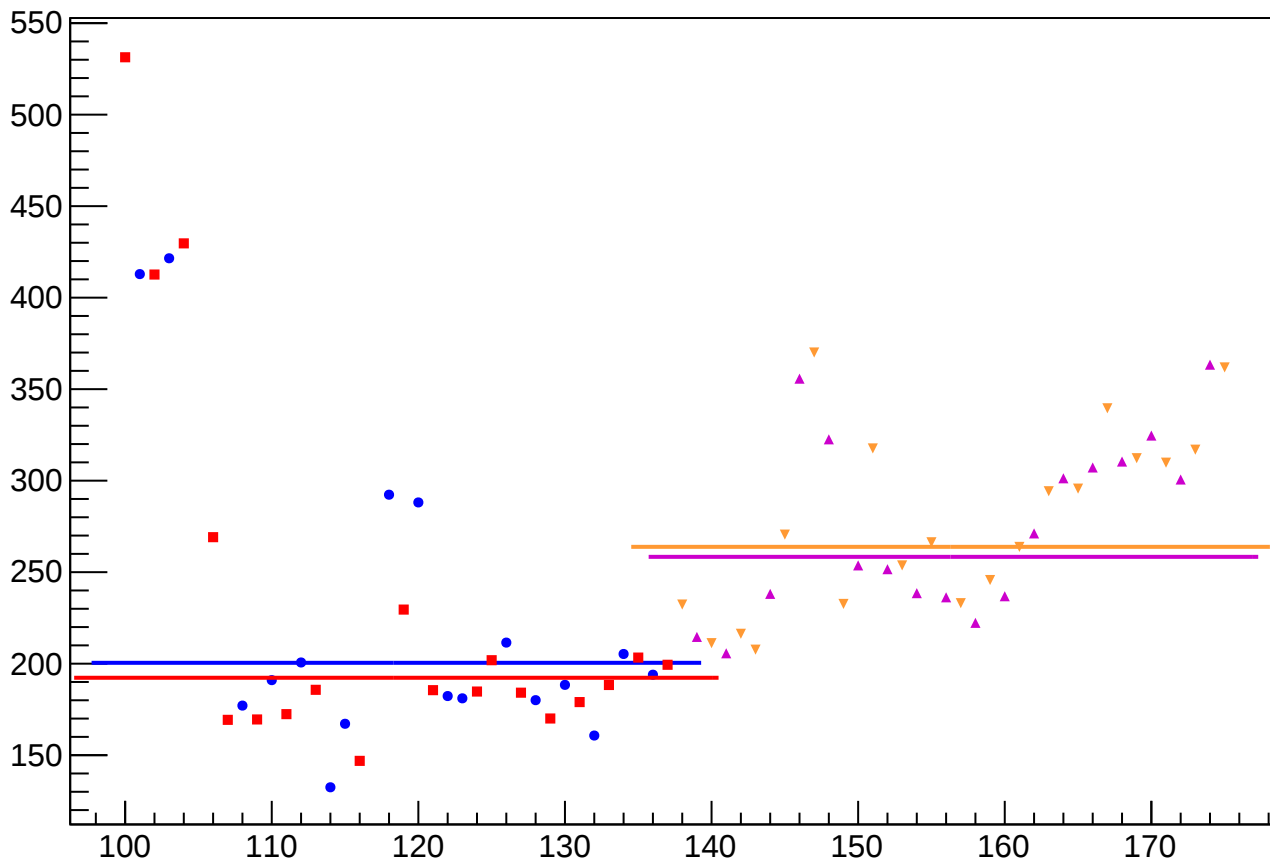
Right: 148404.723 $\pm$ 0.056 χ^2 /NDF: 507501516.8/3

In: 141563.473 $\pm$ 0.054 χ^2 /NDF: 13437584715.3/3

Out: 141987.078 $\pm$ 0.051 χ^2 /NDF: 13640569768.5/3

All: 141783.832 $\pm$ 0.037 χ^2 /NDF: 271106616.3/3

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.472 $\pm$ 0.058 χ^2 /NDF: 936547.2/16

Left Out: 263.843 $\pm$ 0.049 χ^2 /NDF: 837637.7/19

Right Out: 192.304 $\pm$ 0.054 χ^2 /NDF: 844504.1/18

Left In: 258.376 $\pm$ 0.050 χ^2 /NDF: 755837.0/17

Left: 261.154 $\pm$ 0.035 χ^2 /NDF: 1599541.6/37

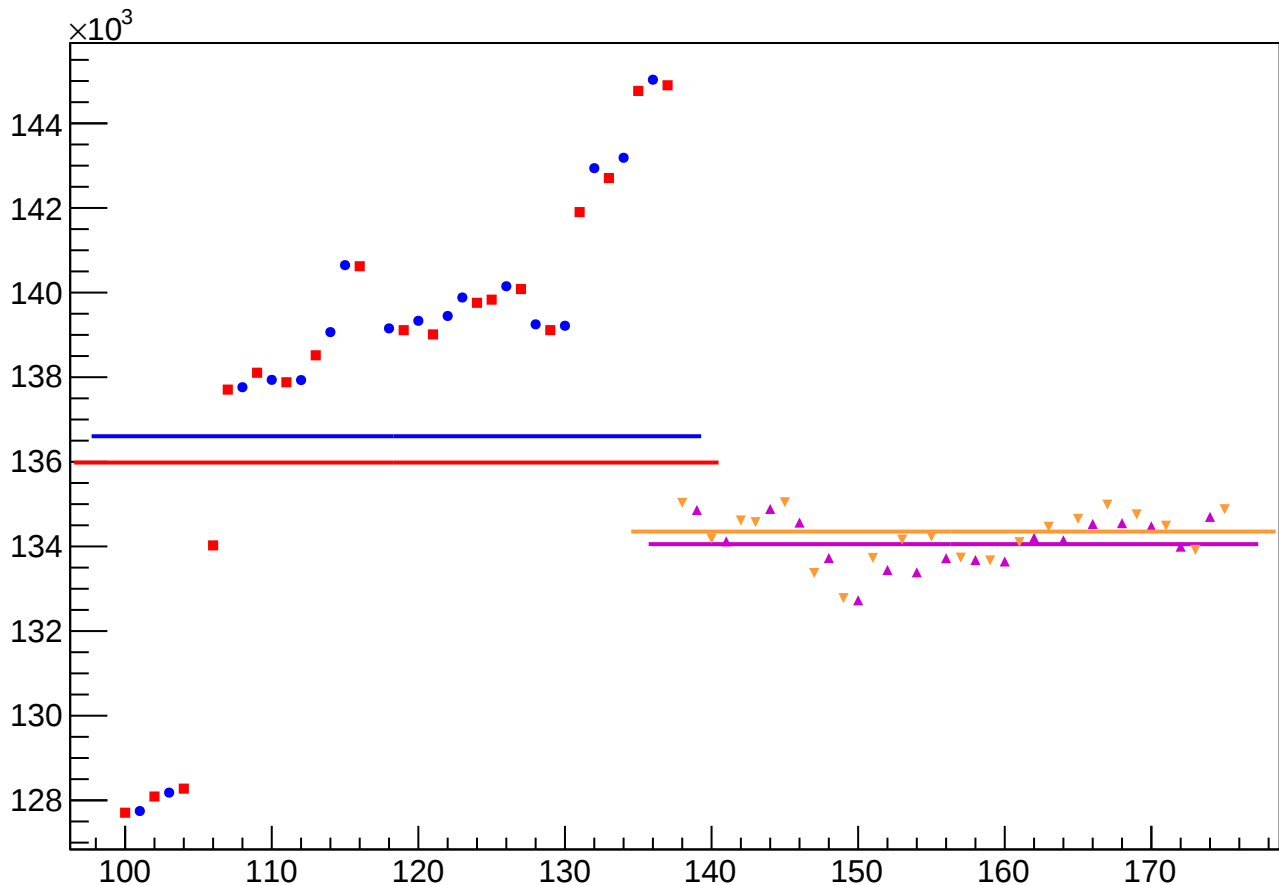
Right: 196.097 $\pm$ 0.040 χ^2 /NDF: 1791663.0/35

In: 233.691 $\pm$ 0.038 χ^2 /NDF: 2263524.2/34

Out: 231.392 $\pm$ 0.036 χ^2 /NDF: 2640001.4/38

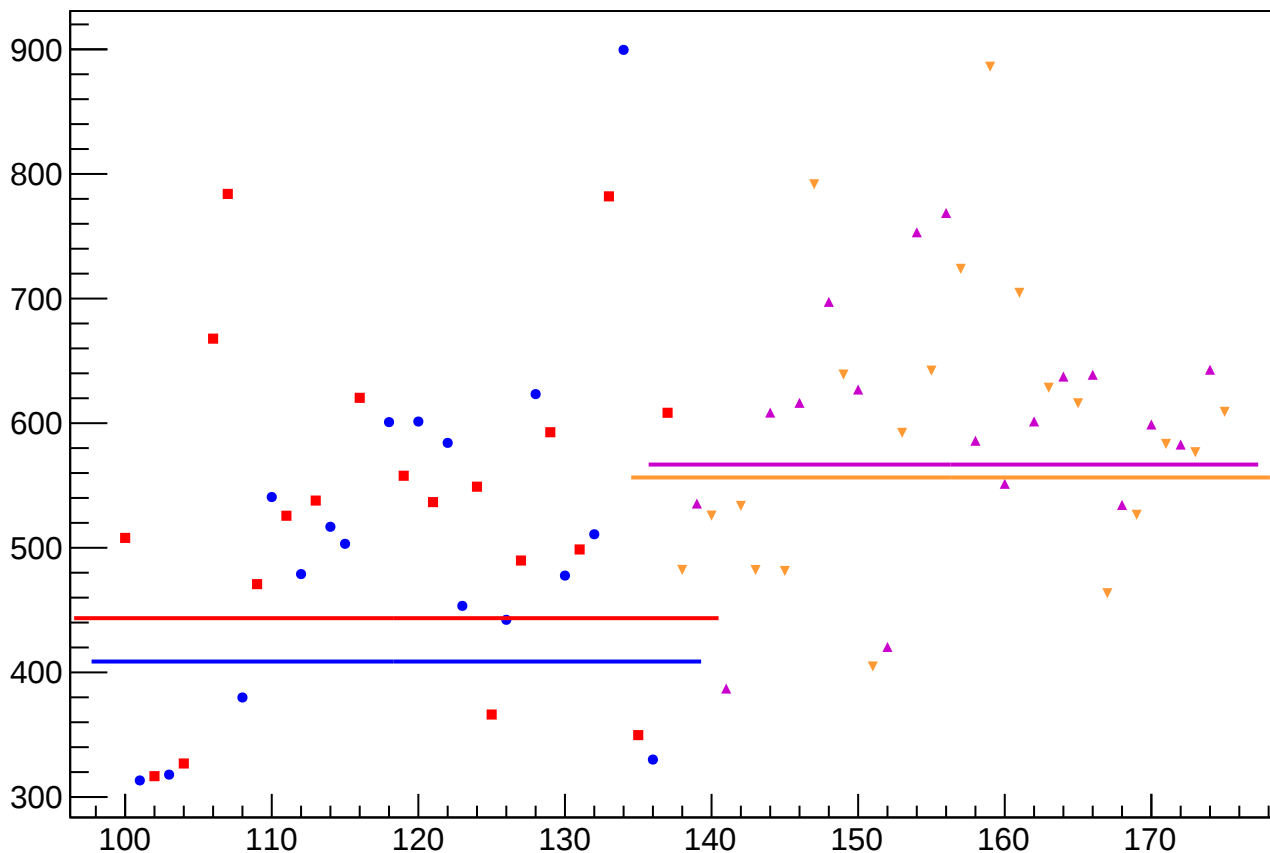
All: 232.495 $\pm$ 0.026 χ^2 /NDF: 4905440.4/73

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136604.632 $\pm$ 0.171	χ^2/NDF : 1494354557.3/16	Left: 134213.503 $\pm$ 0.113	χ^2/NDF : 27575113.9/37
Left Out: 134351.264 $\pm$ 0.154	χ^2/NDF : 14304347.1/19	Right: 136313.462 $\pm$ 0.125	χ^2/NDF : 2582945594.6/3
Right Out: 135982.842 $\pm$ 0.183	χ^2/NDF : 1082431147.9/18	In: 135281.567 $\pm$ 0.119	χ^2/NDF : 1620678315.0/34
Left In: 134054.898 $\pm$ 0.165	χ^2/NDF : 11545804.0/17	Out: 135028.264 $\pm$ 0.118	χ^2/NDF : 1143403607.2/3
		All: 135153.593 $\pm$ 0.084	χ^2/NDF : 276637443.0/10

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.729+/-0.121 χ^2/NDF : 823262.8/16

Left Out: 556.435+/-0.109 χ^2/NDF : 901391.3/19

Right Out: 443.521+/-0.129 χ^2/NDF : 917492.4/18

Left In: 566.805+/-0.117 χ^2/NDF : 768715.1/17

Left: 561.255+/-0.080 χ^2/NDF : 1674329.5/37

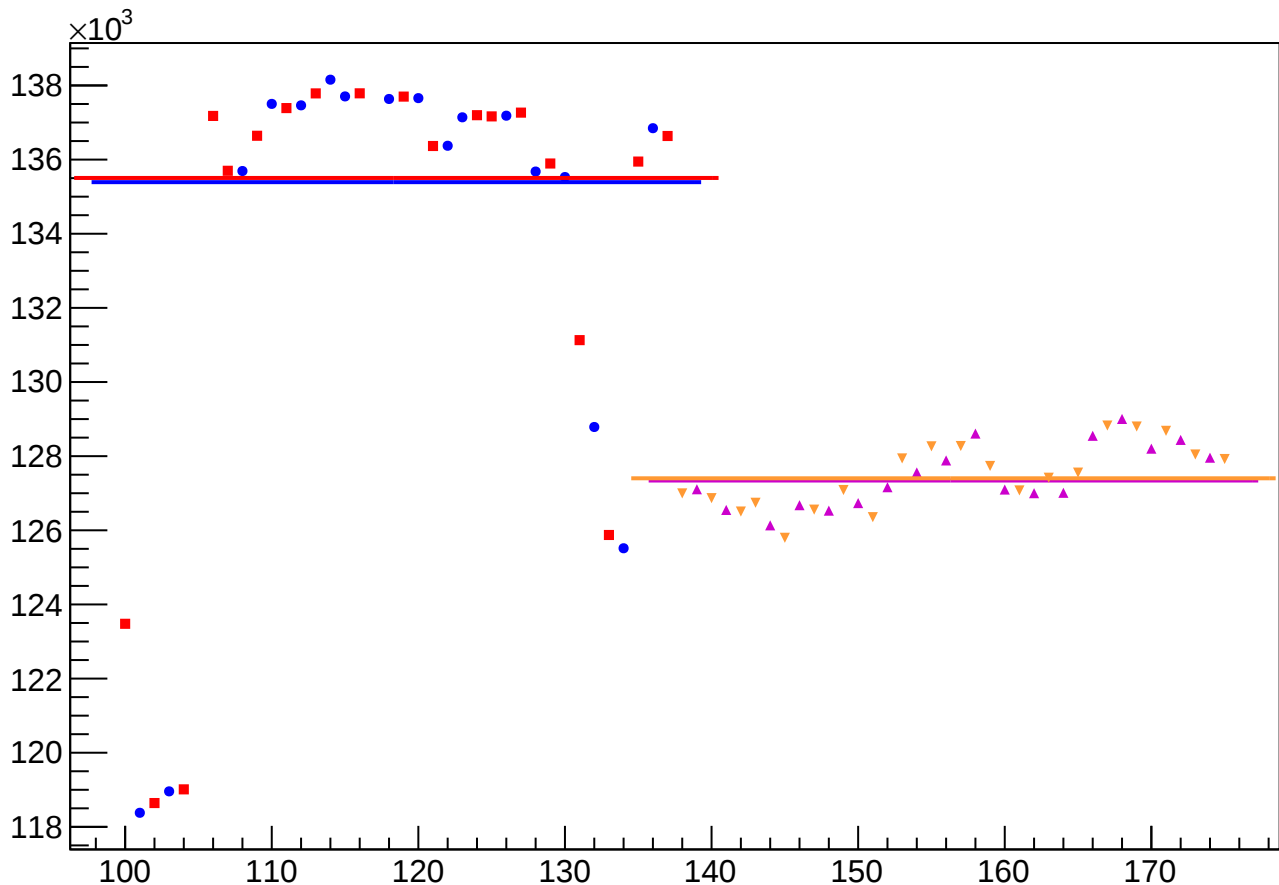
Right: 425.022+/-0.088 χ^2/NDF : 1779326.9/35

In: 490.755+/-0.084 χ^2/NDF : 2474298.5/34

Out: 509.583+/-0.083 χ^2/NDF : 2265908.8/38

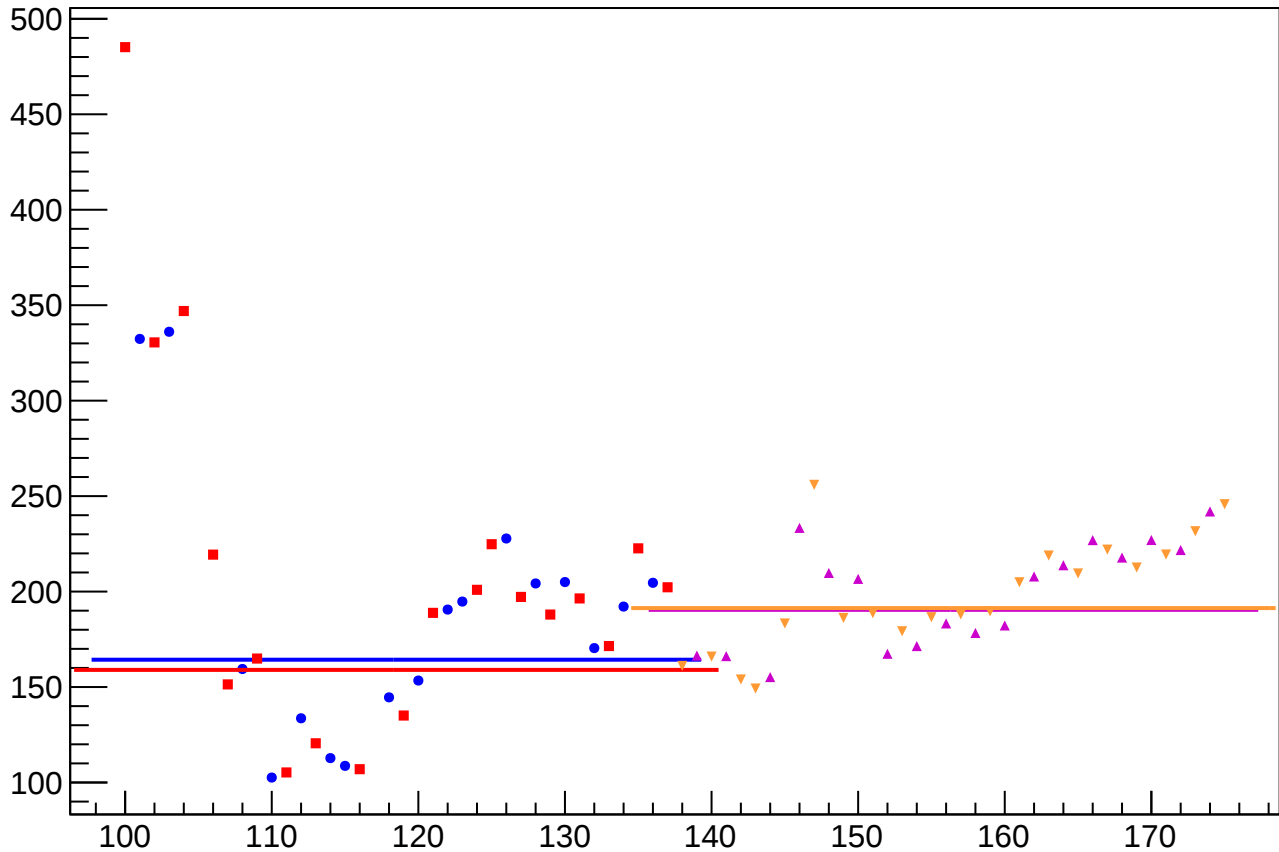
All: 500.267+/-0.059 χ^2/NDF : 4765539.6/73

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135391.458+/-0.068	χ^2/NDF : 4580024611.0/16	Left: 127373.929+/-0.036	χ^2/NDF : 528714927.4/37
Left Out: 127402.869+/-0.050	χ^2/NDF : 278547250.1/19	Right: 135451.454+/-0.047	χ^2/NDF : 9312151817.8/
Right Out: 135504.836+/-0.064	χ^2/NDF : 4730667469.8/18	In: 130293.189+/-0.041	χ^2/NDF : 13634958262.0/3
Left In: 127343.054+/-0.052	χ^2/NDF : 249482789.1/17	Out: 130471.282+/-0.040	χ^2/NDF : 14845101132.5
		All: 130385.979+/-0.029	χ^2/NDF : 284897340

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.311+/-0.048 χ^2/NDF : 1230487.8/16

Left Out: 191.355+/-0.036 χ^2/NDF : 586286.6/19

Right Out: 158.977+/-0.046 χ^2/NDF : 1384059.2/18

Left In: 190.435+/-0.037 χ^2/NDF : 505628.6/17

Left: 190.910+/-0.026 χ^2/NDF : 1092239.2/37

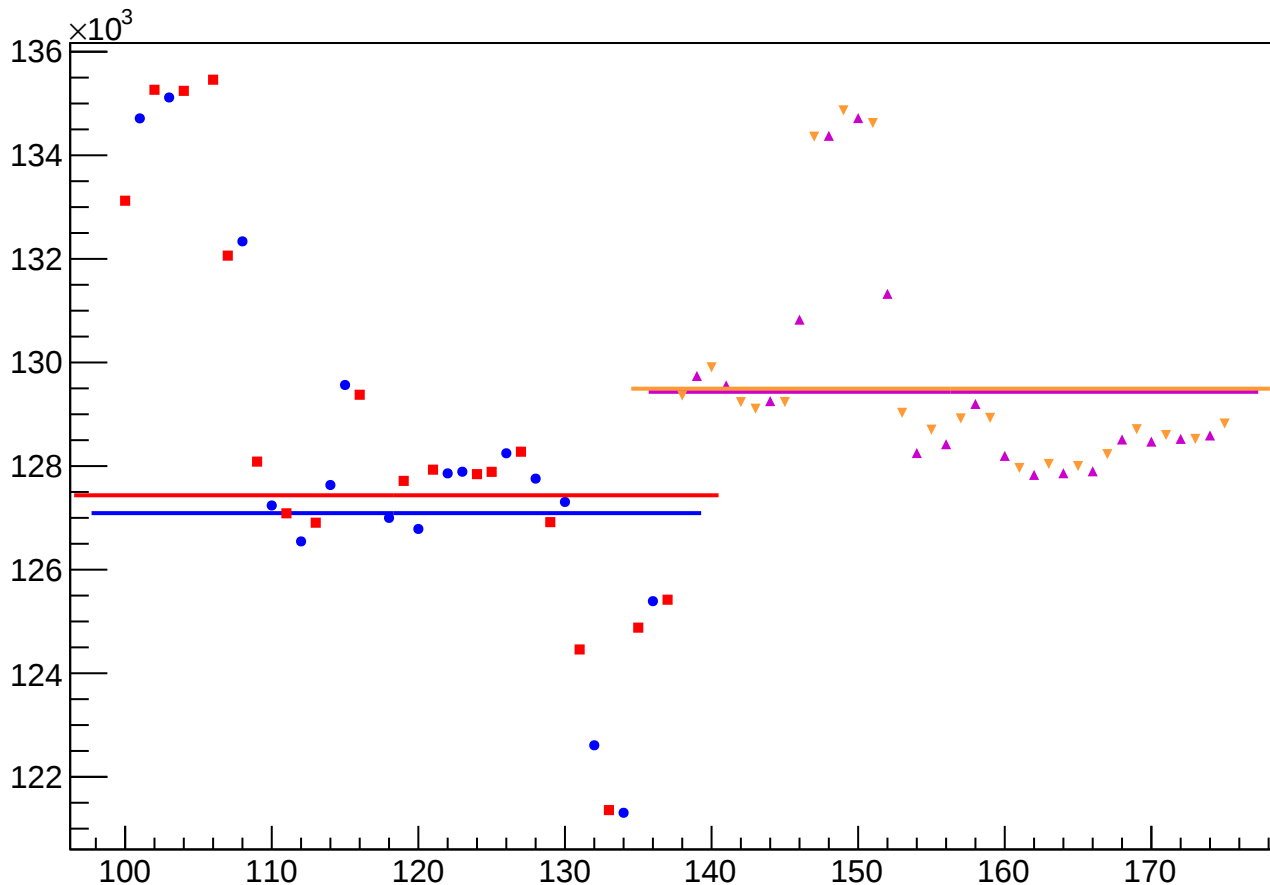
Right: 161.489+/-0.033 χ^2/NDF : 2621008.2/35

In: 180.859+/-0.029 χ^2/NDF : 1921656.7/34

Out: 179.093+/-0.028 χ^2/NDF : 2284506.4/38

All: 179.939+/-0.020 χ^2/NDF : 4208067.0/73

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127091.500+/-0.066

χ^2/NDF : 1717208780.6/16

Left: 129465.008+/-0.036

χ^2/NDF : 2509973120.3/3

Left Out: 129494.224+/-0.050

χ^2/NDF : 1374841513.6/19

Right: 127276.609+/-0.045

χ^2/NDF : 3810794624.3/3

Right Out: 127436.101+/-0.062

χ^2/NDF : 2079075713.9/18

In: 128544.803+/-0.041

χ^2/NDF : 3626016136.4/34

Out: 128670.322+/-0.039

χ^2/NDF : 4124545670.0/3

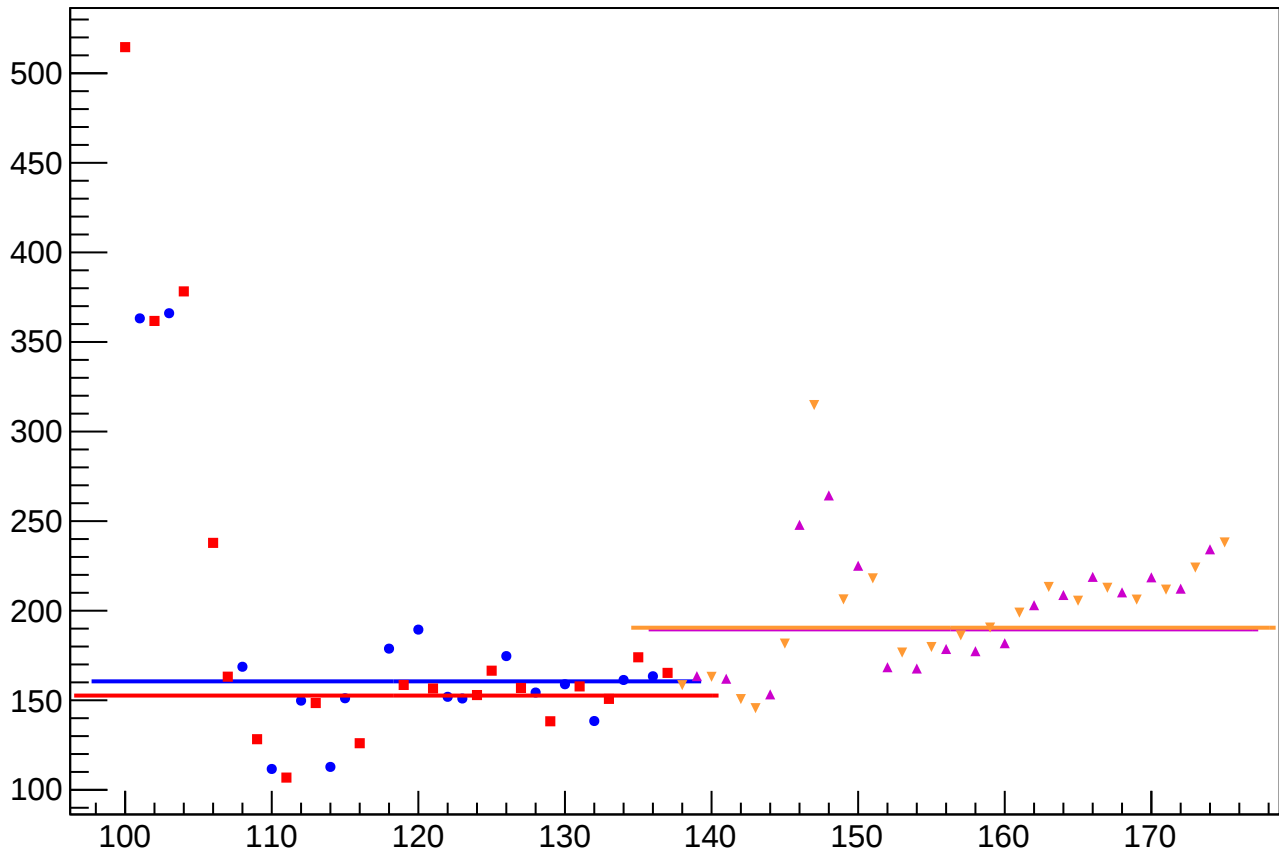
Left In: 129433.932+/-0.052

χ^2/NDF : 1134434957.3/17

All: 128610.565+/-0.028

χ^2/NDF : 775550854.0/3

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.564+/-0.047 χ^2/NDF : 942747.0/16

Left Out: 190.510+/-0.036 χ^2/NDF : 742928.7/19

Right Out: 152.629+/-0.044 χ^2/NDF : 1086504.4/18

Left In: 189.577+/-0.037 χ^2/NDF : 649540.1/17

Left: 190.058+/-0.026 χ^2/NDF : 1392802.2/37

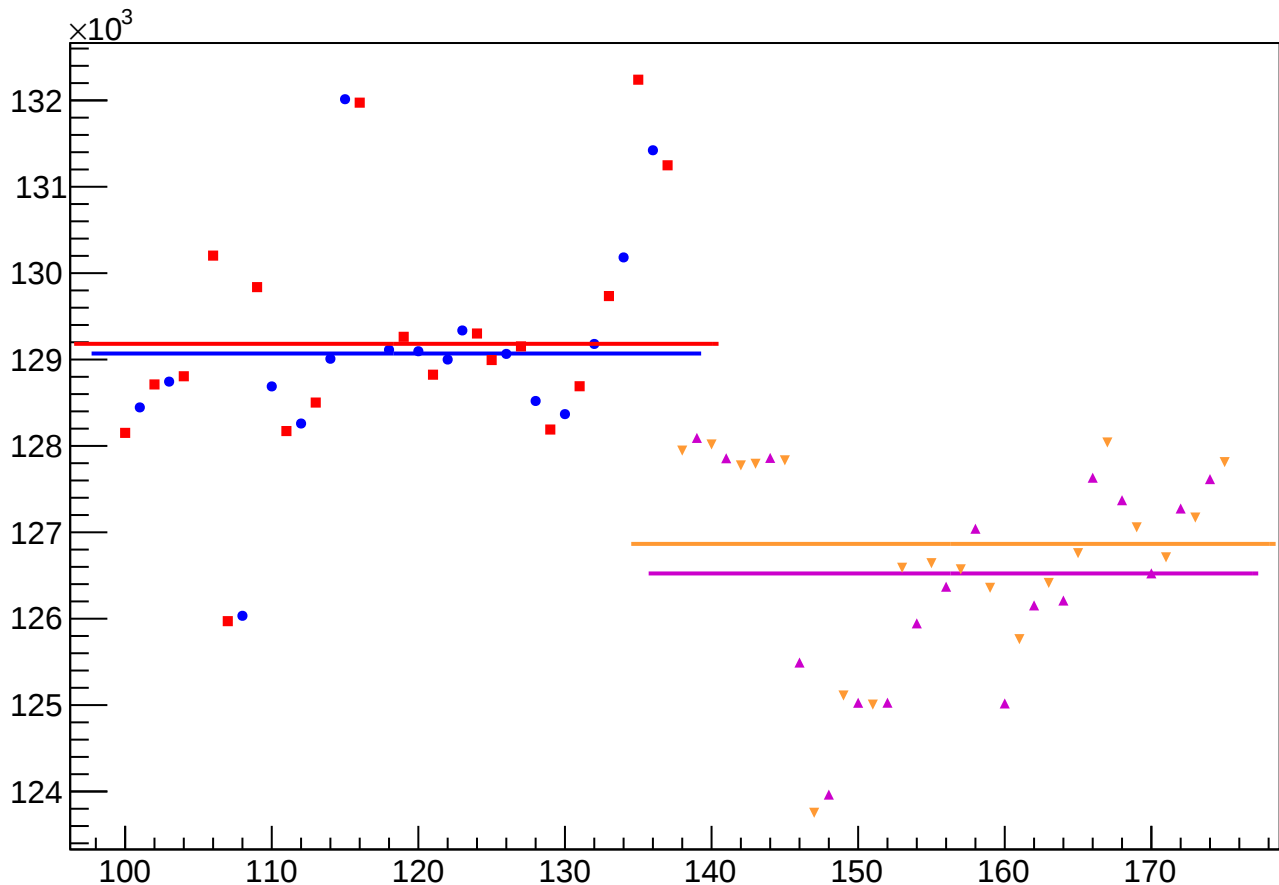
Right: 156.301+/-0.032 χ^2/NDF : 2044640.1/35

In: 178.564+/-0.029 χ^2/NDF : 1829878.5/34

Out: 175.345+/-0.028 χ^2/NDF : 2283805.8/38

All: 176.878+/-0.020 χ^2/NDF : 4120191.6/73

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129069.668 $\pm$ 0.060

χ^2 /NDF: 476692316.5/16

Left Out: 126865.936 $\pm$ 0.049

χ^2 /NDF: 477487301.5/19

Right Out: 129181.887 $\pm$ 0.056

χ^2 /NDF: 625597399.6/18

Left In: 126523.680 $\pm$ 0.050

χ^2 /NDF: 568926407.6/17

Left: 126700.391 $\pm$ 0.035

χ^2 /NDF: 1070227196.9/3

Right: 129129.710 $\pm$ 0.041

χ^2 /NDF: 1104150743.5/3

In: 127573.351 $\pm$ 0.039

χ^2 /NDF: 2097868959.2/3

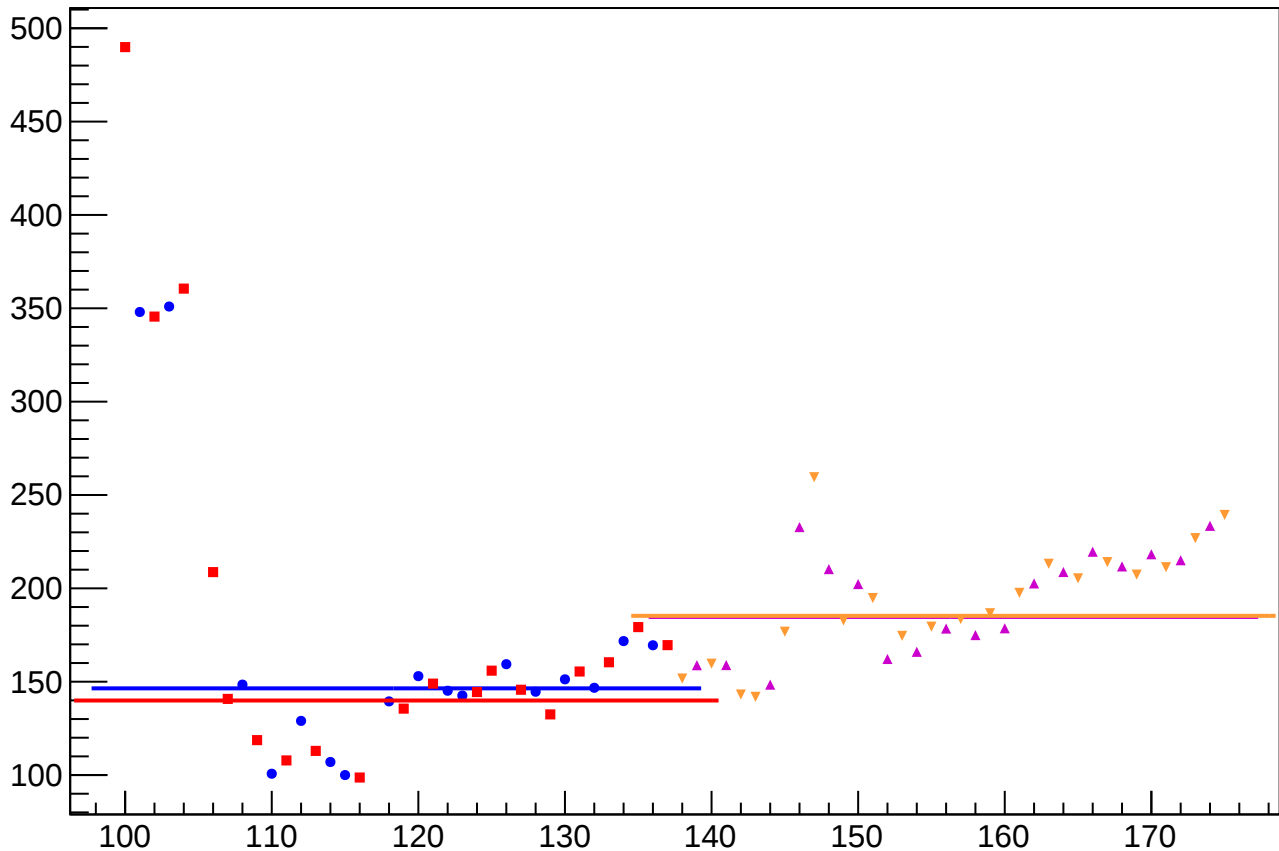
Out: 127863.174 $\pm$ 0.037

χ^2 /NDF: 2073787997.6/3

All: 127725.280 $\pm$ 0.027

χ^2 /NDF: 420115658.6/3

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.437 $\pm$ 0.043 χ^2 /NDF: 1064791.0/16

Left Out: 185.283 $\pm$ 0.034 χ^2 /NDF: 691401.1/19

Right Out: 139.929 $\pm$ 0.040 χ^2 /NDF: 1203570.9/18

Left In: 184.669 $\pm$ 0.036 χ^2 /NDF: 556055.5/17

Left: 184.986 $\pm$ 0.025 χ^2 /NDF: 1247610.0/37

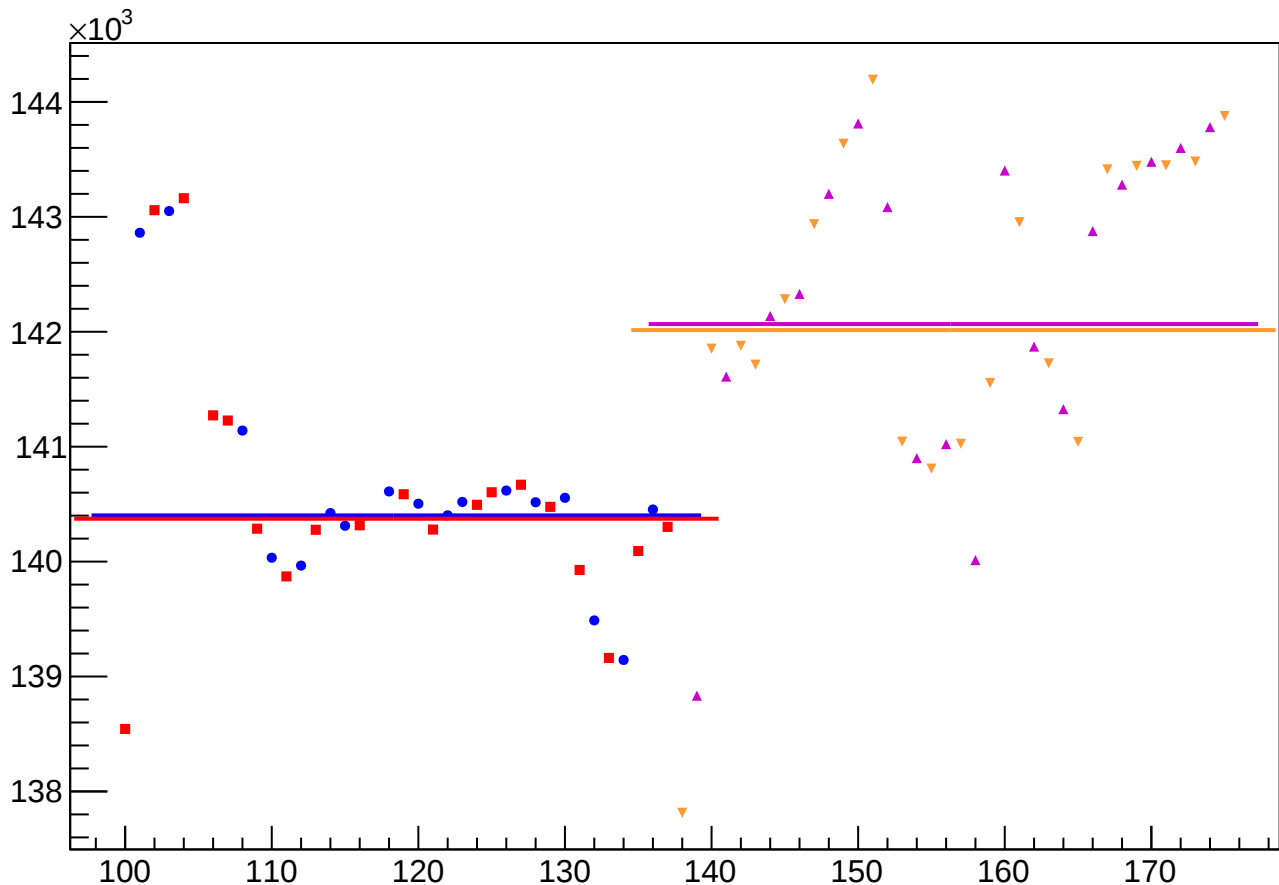
Right: 142.955 $\pm$ 0.029 χ^2 /NDF: 2280881.6/35

In: 168.907 $\pm$ 0.027 χ^2 /NDF: 2095402.1/34

Out: 165.754 $\pm$ 0.026 χ^2 /NDF: 2639526.1/38

All: 167.254 $\pm$ 0.019 χ^2 /NDF: 4741910.2/73

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140402.010 $\pm$ 0.064

χ^2 /NDF: 88071774.7/16

Left: 142040.205 $\pm$ 0.040

χ^2 /NDF: 1378595869.6/3

Right: 140386.544 $\pm$ 0.044

χ^2 /NDF: 188034057.1/3

Left Out: 142014.760 $\pm$ 0.056

χ^2 /NDF: 774066592.0/19

In: 141323.154 $\pm$ 0.043

χ^2 /NDF: 1062623057.4/3

Right Out: 140373.163 $\pm$ 0.060

χ^2 /NDF: 99854533.3/18

Out: 141246.300 $\pm$ 0.041

χ^2 /NDF: 1274056952.8/3

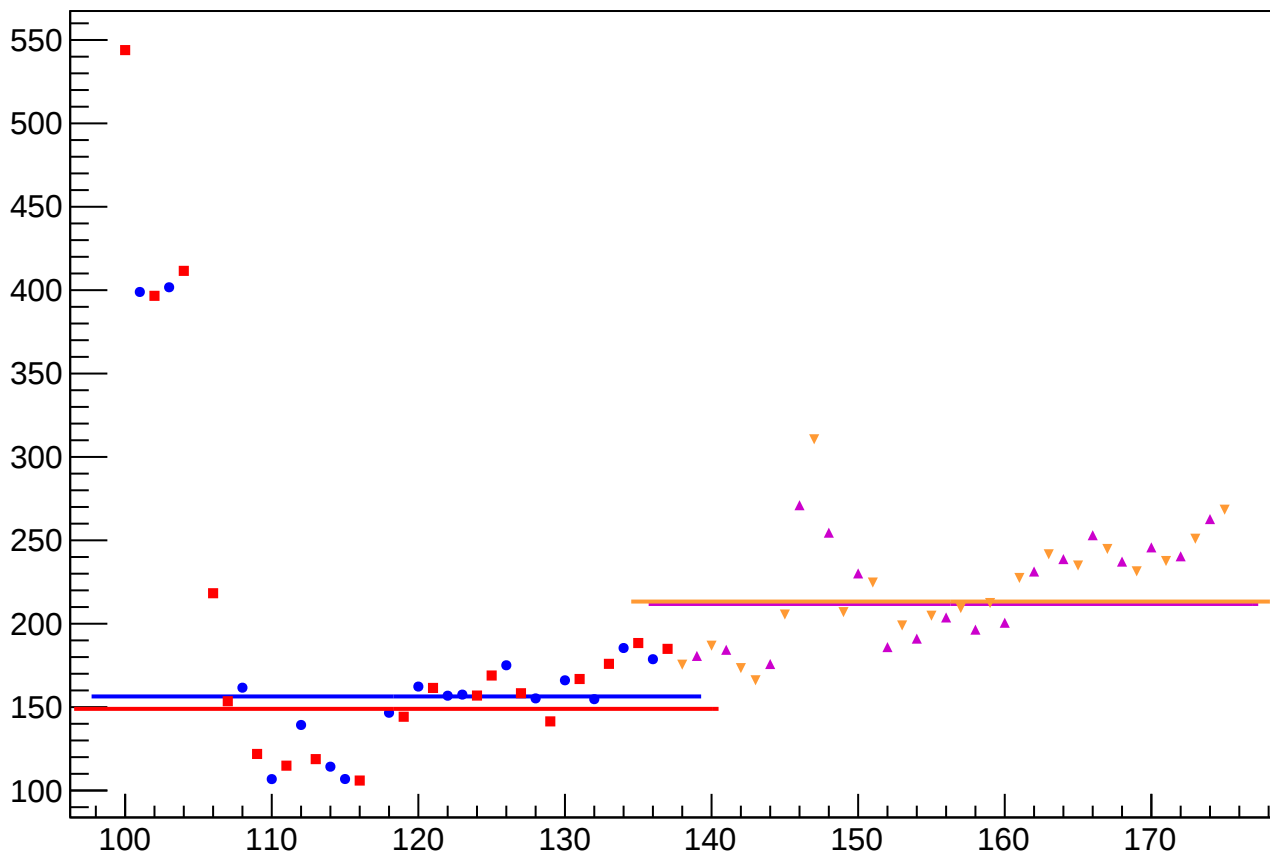
Left In: 142067.199 $\pm$ 0.058

χ^2 /NDF: 604106041.2/17

All: 141282.839 $\pm$ 0.030

χ^2 /NDF: 233835473.1/1

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.394 $\pm$ 0.046 χ^2 /NDF: 1154804.2/16

Left Out: 213.288 $\pm$ 0.040 χ^2 /NDF:604986.3/19

Right Out: 148.949 $\pm$ 0.042 χ^2 /NDF: 1307651.5/18

Left In: 211.837 $\pm$ 0.041 χ^2 /NDF:522701.1/17

Left: 212.584 $\pm$ 0.028 χ^2 /NDF: 1128335.2/37

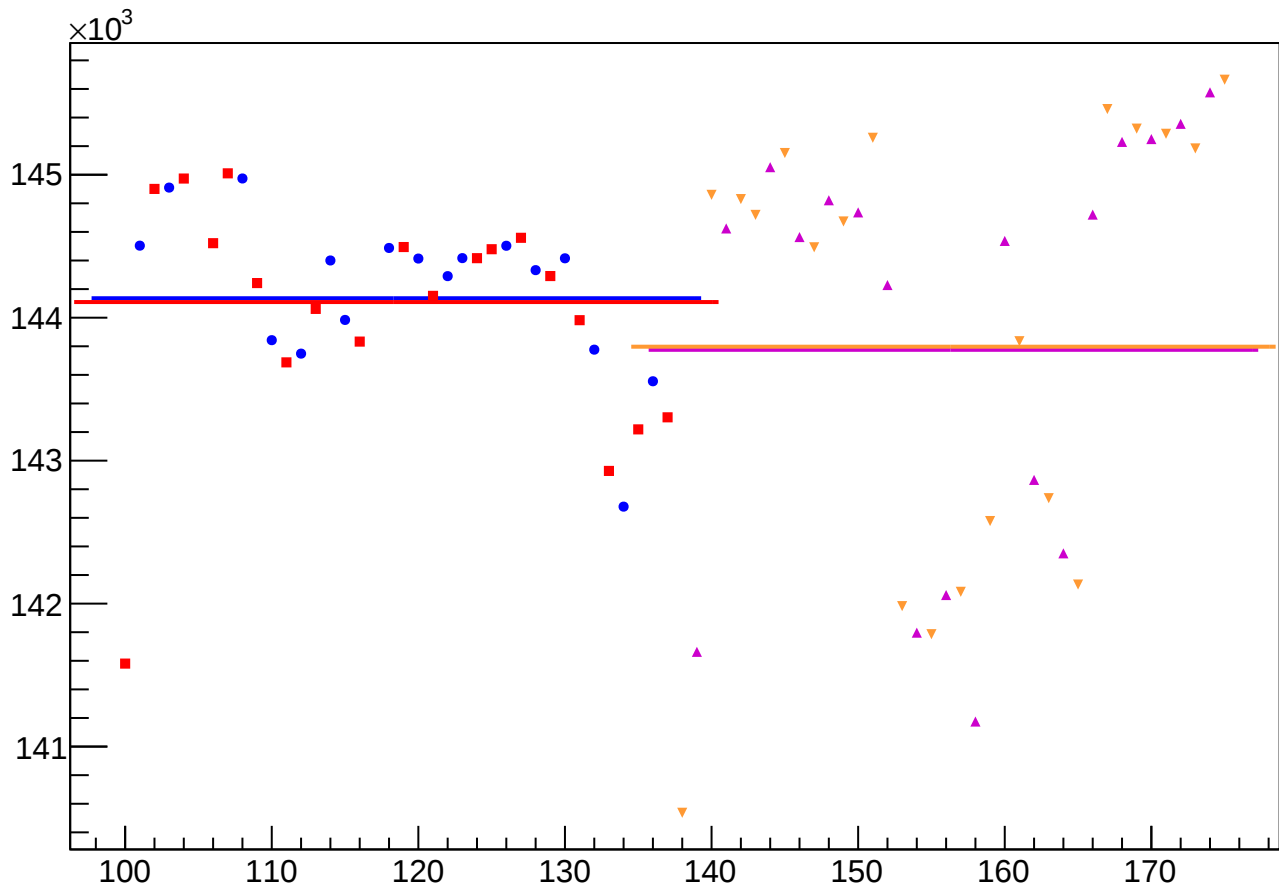
Right: 152.402 $\pm$ 0.031 χ^2 /NDF: 2476807.4/35

In: 187.064 $\pm$ 0.030 χ^2 /NDF:2498858.7/34

Out: 183.170 $\pm$ 0.029 χ^2 /NDF:3141910.1/38

All: 185.021 $\pm$ 0.021 χ^2 /NDF: 5649366.6/73

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144136.118 $\pm$ 0.067

χ^2 /NDF: 47069480.3/16

Left: 143786.604 $\pm$ 0.040

χ^2 /NDF: 1462782844.9/3

Right: 144121.752 $\pm$ 0.045

χ^2 /NDF: 112414138.5/3

Left Out: 143797.145 $\pm$ 0.056

χ^2 /NDF: 806293110.3/19

Right Out: 144109.419 $\pm$ 0.062

χ^2 /NDF: 65258627.2/18

Left In: 143775.352 $\pm$ 0.058

χ^2 /NDF: 656416331.0/17

In: 143929.895 $\pm$ 0.044

χ^2 /NDF: 720173973.8/34

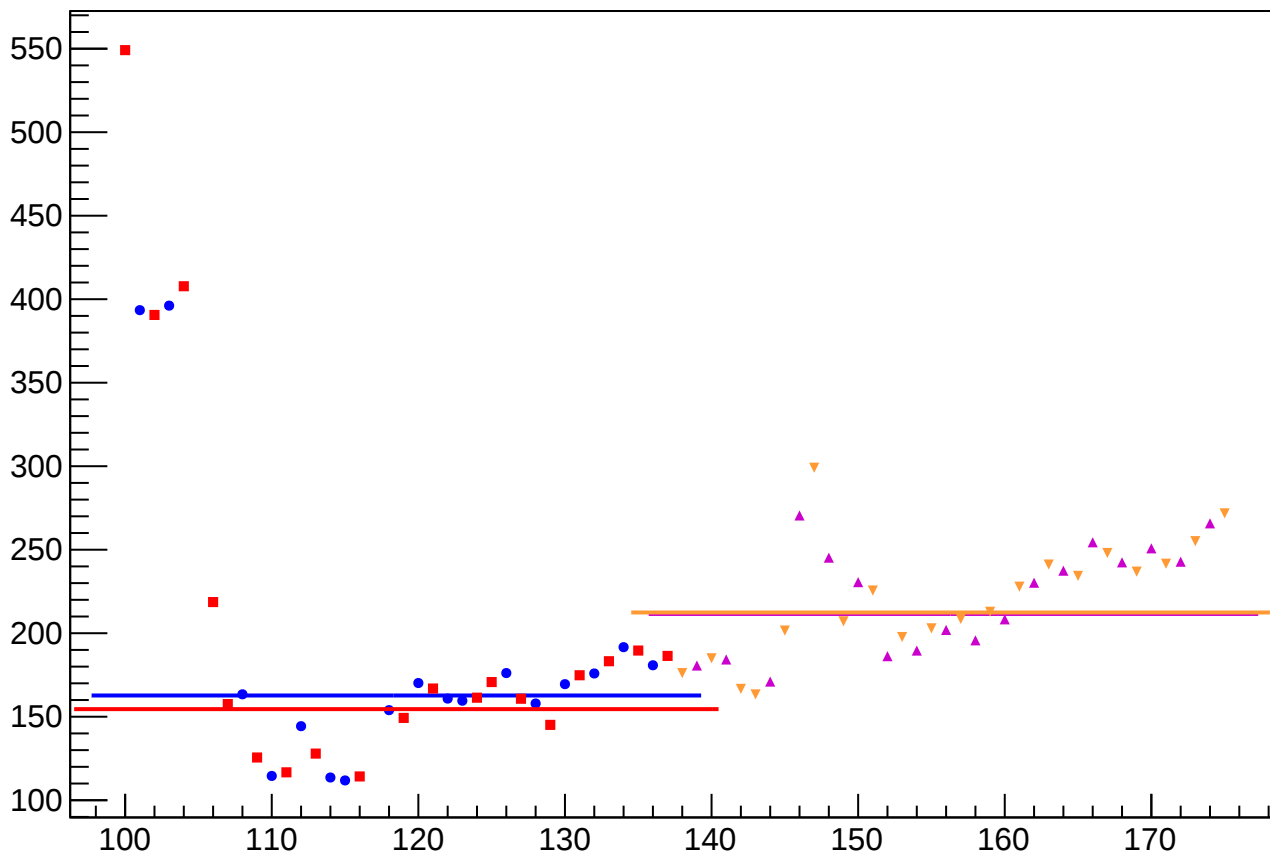
Out: 143937.614 $\pm$ 0.041

χ^2 /NDF: 885568155.5/38

All: 143933.954 $\pm$ 0.030

χ^2 /NDF: 160575853

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.714 $\pm$ 0.047 χ^2/NDF : 1066482.0/16

Left Out: 212.420 $\pm$ 0.040 χ^2/NDF : 655343.6/19

Right Out: 154.547 $\pm$ 0.044 χ^2/NDF : 1217495.9/18

Left In: 211.534 $\pm$ 0.041 χ^2/NDF : 556120.6/17

Left: 211.992 $\pm$ 0.028 χ^2/NDF : 1211707.2/37

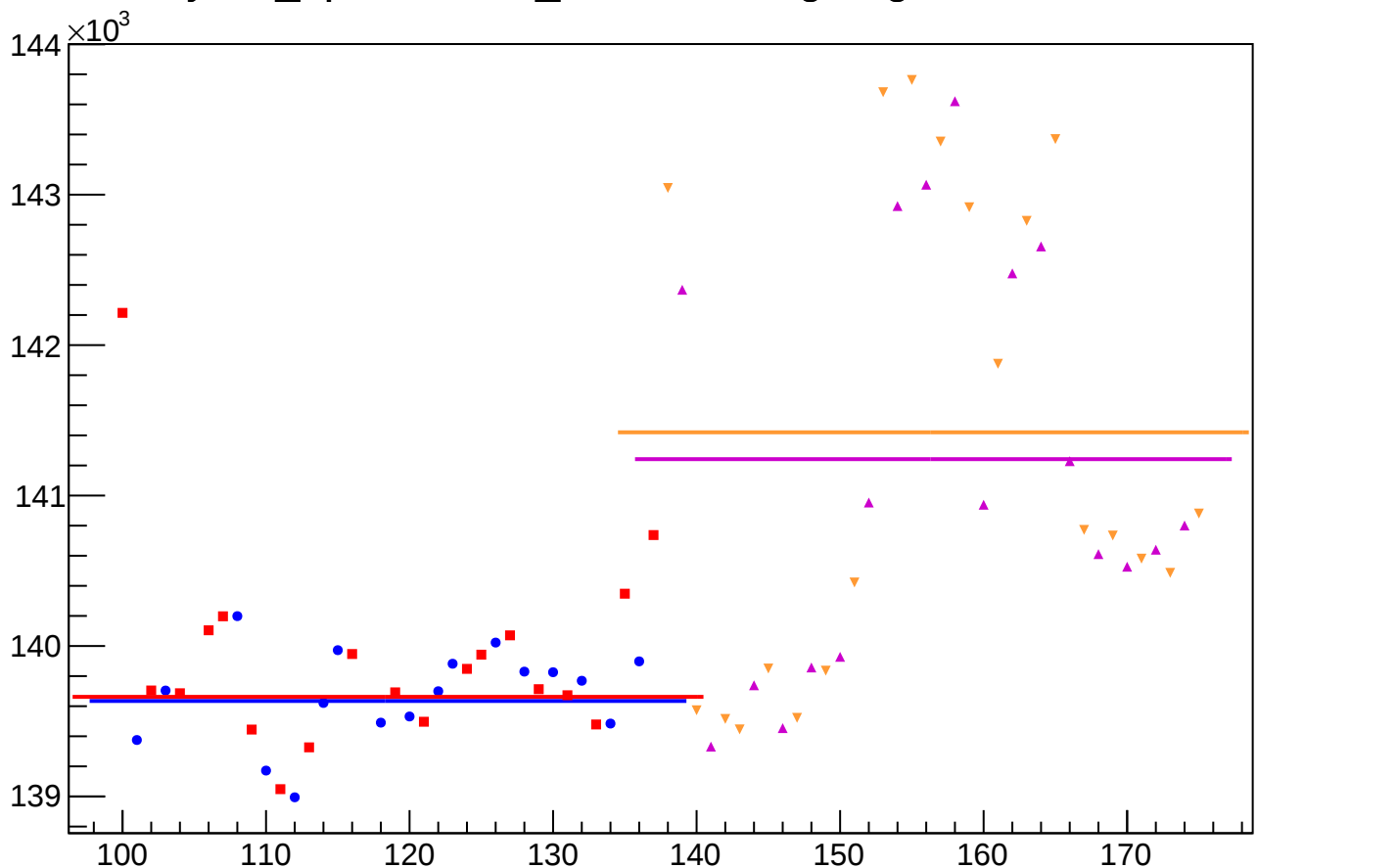
Right: 158.320 $\pm$ 0.032 χ^2/NDF : 2300078.3/35

In: 190.621 $\pm$ 0.031 χ^2/NDF : 2233793.3/34

Out: 186.388 $\pm$ 0.029 χ^2/NDF : 2835685.1/38

All: 188.395 $\pm$ 0.021 χ^2/NDF : 5079347.1/73

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.700 $\pm$ 0.068 χ^2 /NDF: 24844912.0/16

Left Out: 141420.354 $\pm$ 0.058 χ^2 /NDF: 745277814.4/19

Right Out: 139661.970 $\pm$ 0.063 χ^2 /NDF: 38372985.0/18

Left In: 141242.040 $\pm$ 0.059 χ^2 /NDF: 532614054.0/17

Left: 141333.326 $\pm$ 0.041 χ^2 /NDF: 1282514699.4/3

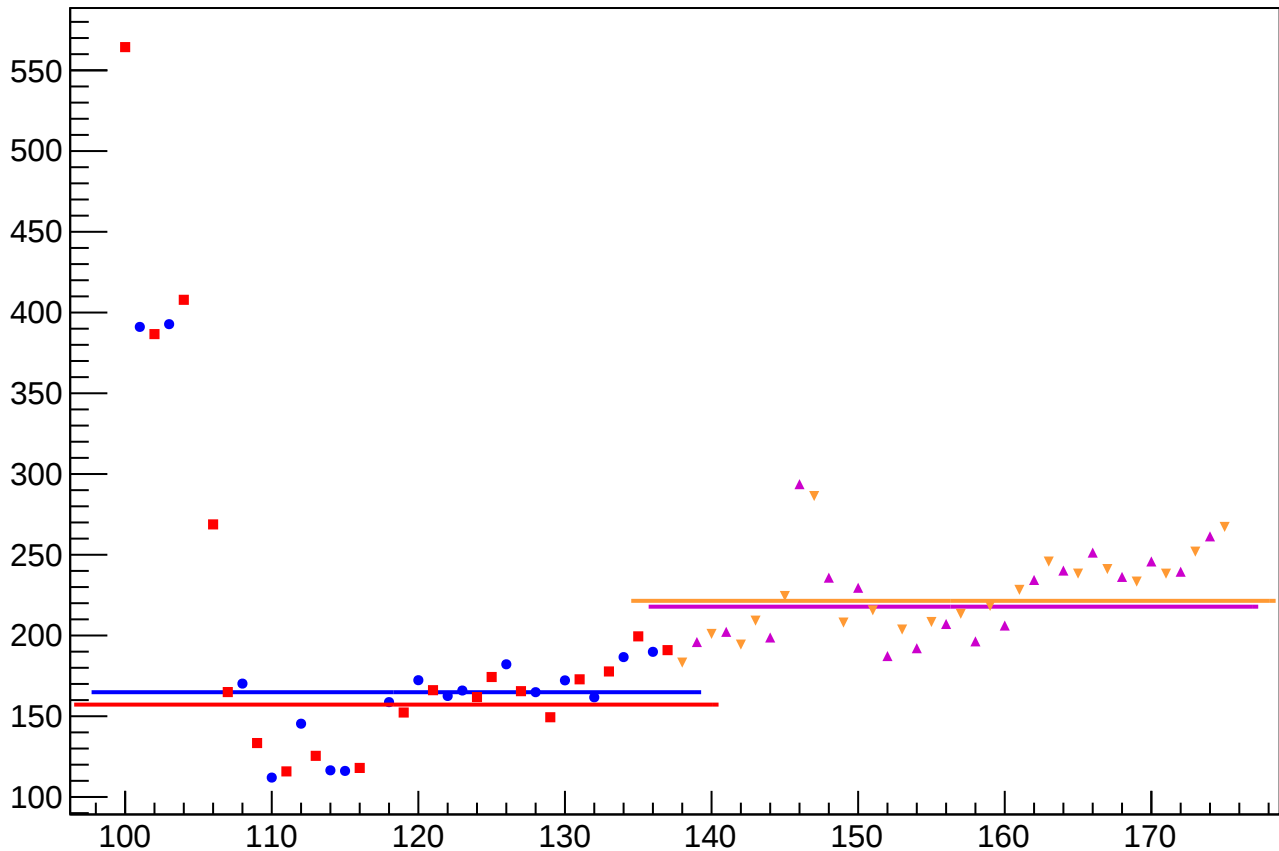
Right: 139649.322 $\pm$ 0.046 χ^2 /NDF: 63304699.0/35

In: 140544.588 $\pm$ 0.045 χ^2 /NDF: 875835311.0/34

Out: 140615.130 $\pm$ 0.043 χ^2 /NDF: 1205441284.4/3

All: 140581.465 $\pm$ 0.031 χ^2 /NDF: 208258166

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.884 ± 0.048 $\chi^2/\text{NDF}: 1066270.8/16$

Left Out: 221.469 ± 0.041 $\chi^2/\text{NDF}: 320949.2/19$

Right Out: 157.207 ± 0.045 $\chi^2/\text{NDF}: 1245030.9/18$

Left In: 217.845 ± 0.042 $\chi^2/\text{NDF}: 380039.2/17$

Left: 219.700 ± 0.029 $\chi^2/\text{NDF}: 704807.2/37$

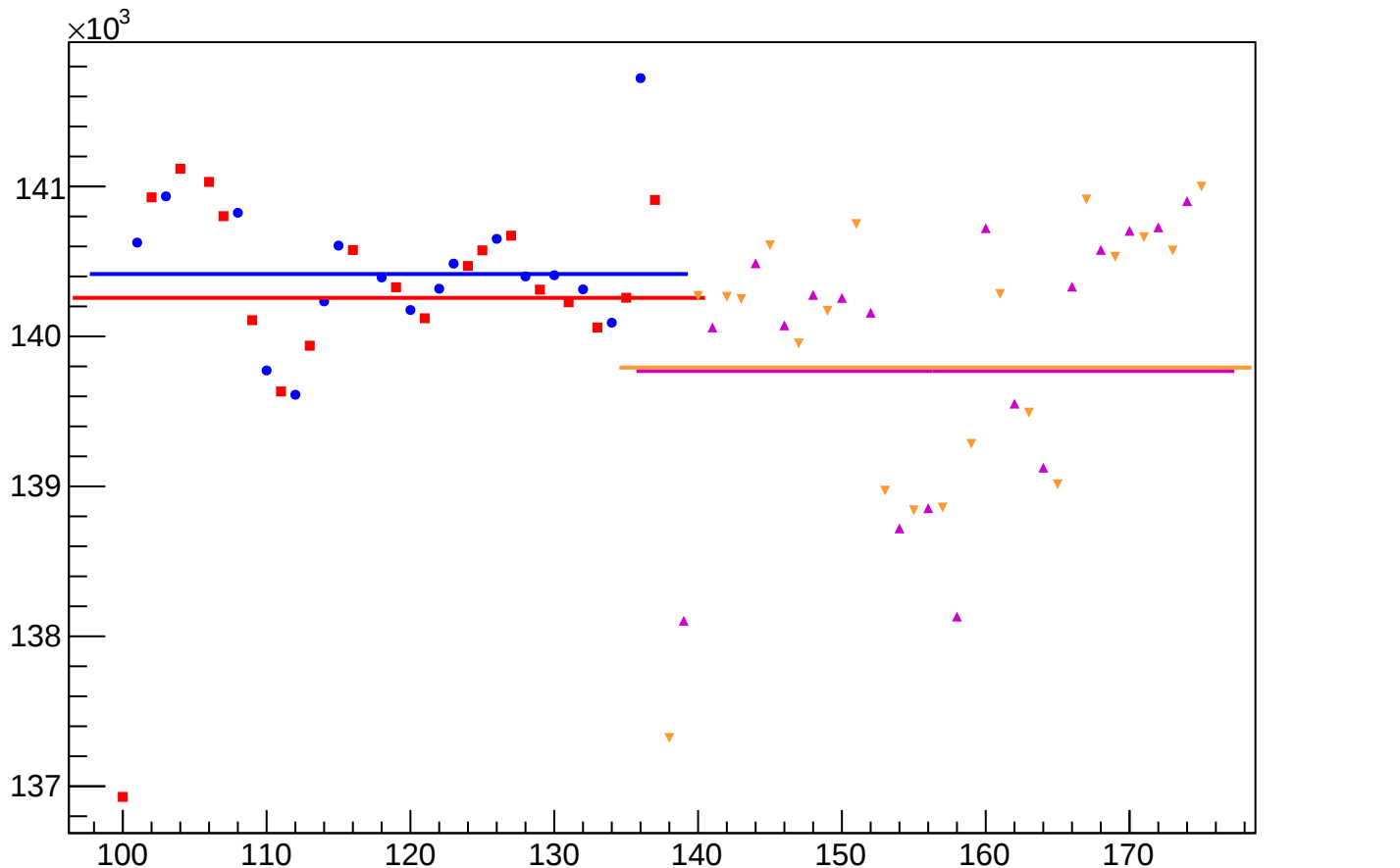
Right: 160.768 ± 0.033 $\chi^2/\text{NDF}: 2325060.5/35$

In: 194.864 ± 0.032 $\chi^2/\text{NDF}: 2137596.0/34$

Out: 192.041 ± 0.030 $\chi^2/\text{NDF}: 2692656.7/38$

All: 193.388 ± 0.022 $\chi^2/\text{NDF}: 4834433.4/73$

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.064 ± 0.068 $\chi^2/\text{NDF}: 69975821.3/16$

Left Out: 139791.809 ± 0.055 $\chi^2/\text{NDF}: 318202446.6/19$

Right Out: 140256.992 ± 0.063 $\chi^2/\text{NDF}: 38063371.4/18$

Left In: 139769.042 ± 0.057 $\chi^2/\text{NDF}: 264212055.7/17$

Left: 139780.805 ± 0.039 $\chi^2/\text{NDF}: 582497722.2/37$

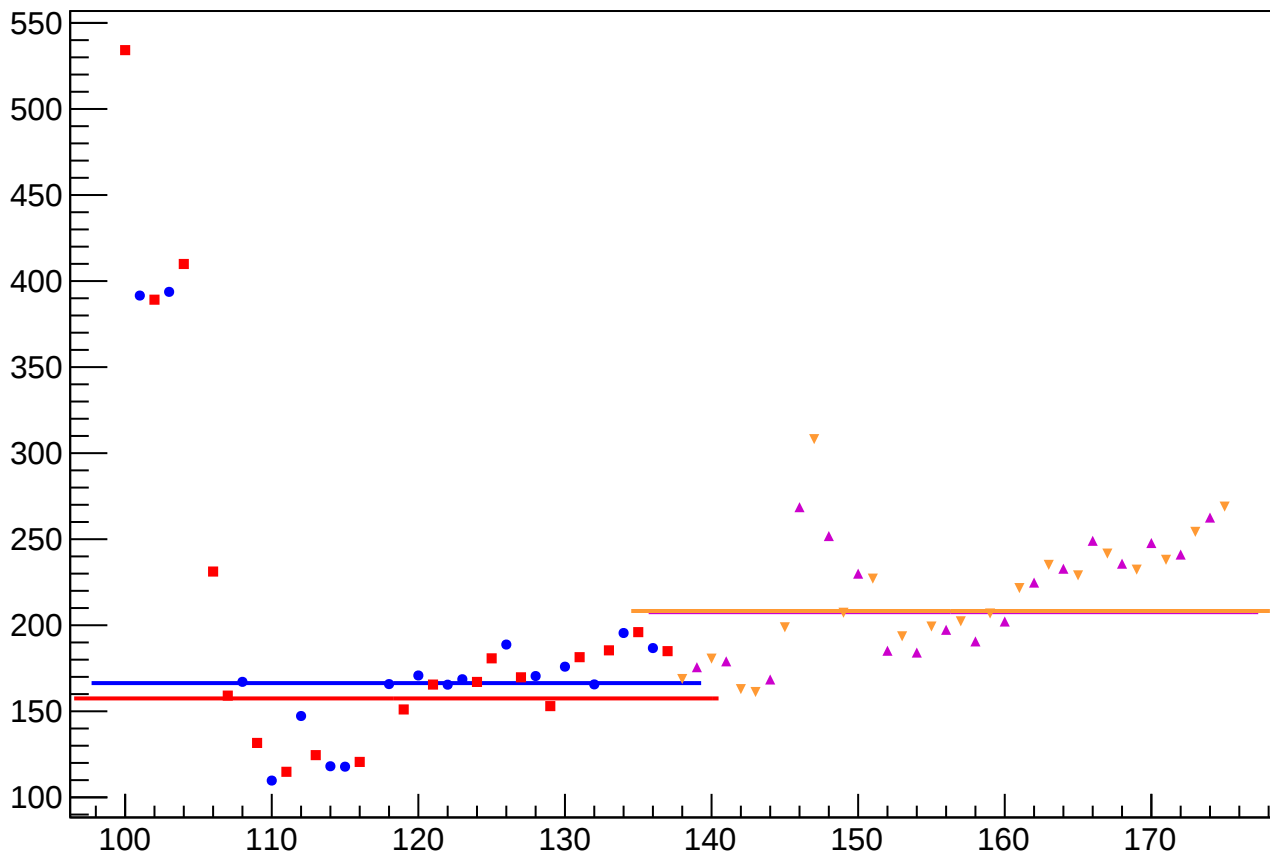
Right: 140330.188 ± 0.046 $\chi^2/\text{NDF}: 110959487.0/37$

In: 140032.741 ± 0.044 $\chi^2/\text{NDF}: 387208874.1/34$

Out: 139991.930 ± 0.041 $\chi^2/\text{NDF}: 387191075.6/38$

All: 140011.258 ± 0.030 $\chi^2/\text{NDF}: 774859822.2/100$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.388 $\pm$ 0.048 χ^2 /NDF: 1080964.8/16

Left Out: 208.285 $\pm$ 0.039 χ^2 /NDF: 716670.2/19

Right Out: 157.475 $\pm$ 0.045 χ^2 /NDF: 1229886.8/18

Left In: 207.600 $\pm$ 0.040 χ^2 /NDF: 600800.0/17

Left: 207.954 $\pm$ 0.028 χ^2 /NDF: 1317620.9/37

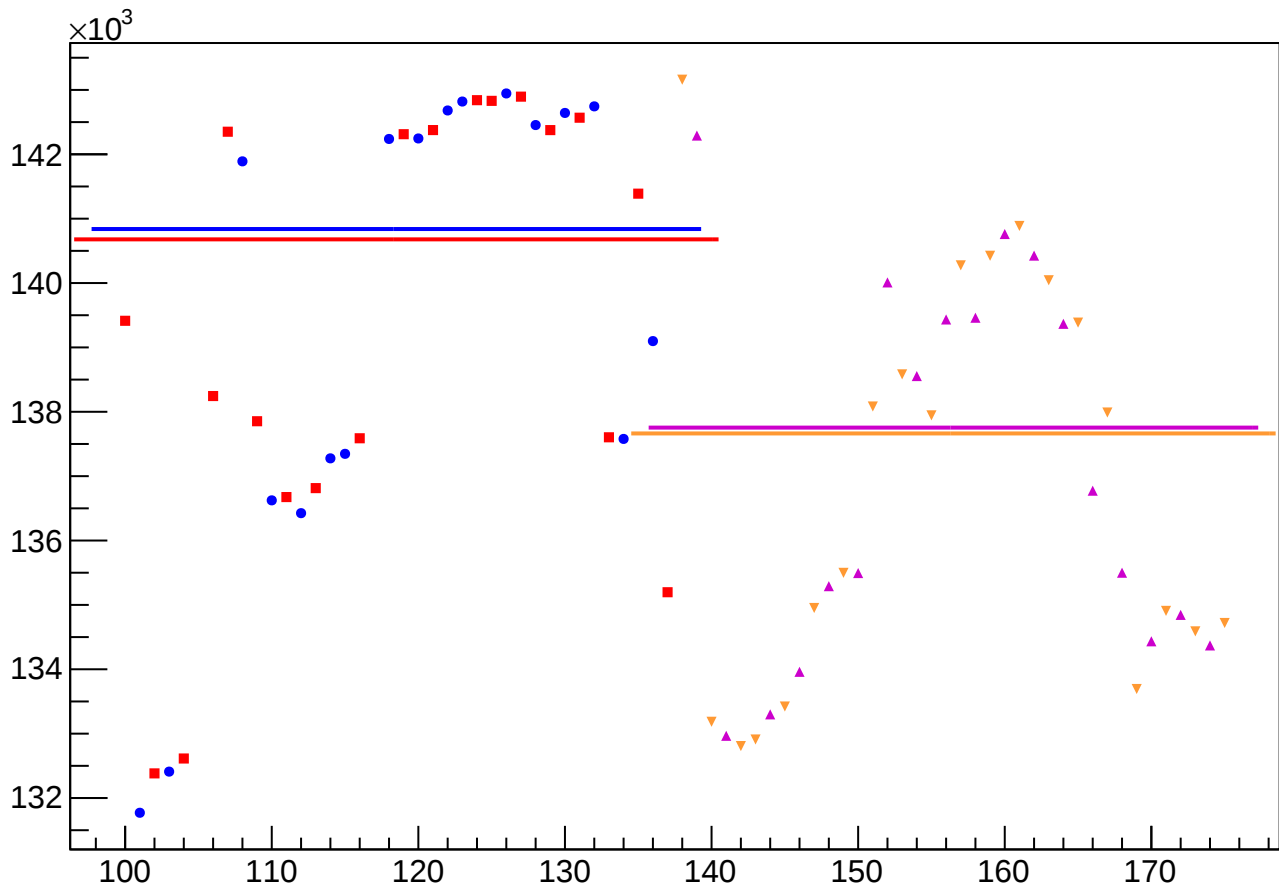
Right: 161.576 $\pm$ 0.033 χ^2 /NDF: 2329186.5/35

In: 190.803 $\pm$ 0.031 χ^2 /NDF: 2111980.2/34

Out: 186.426 $\pm$ 0.029 χ^2 /NDF: 2684439.3/38

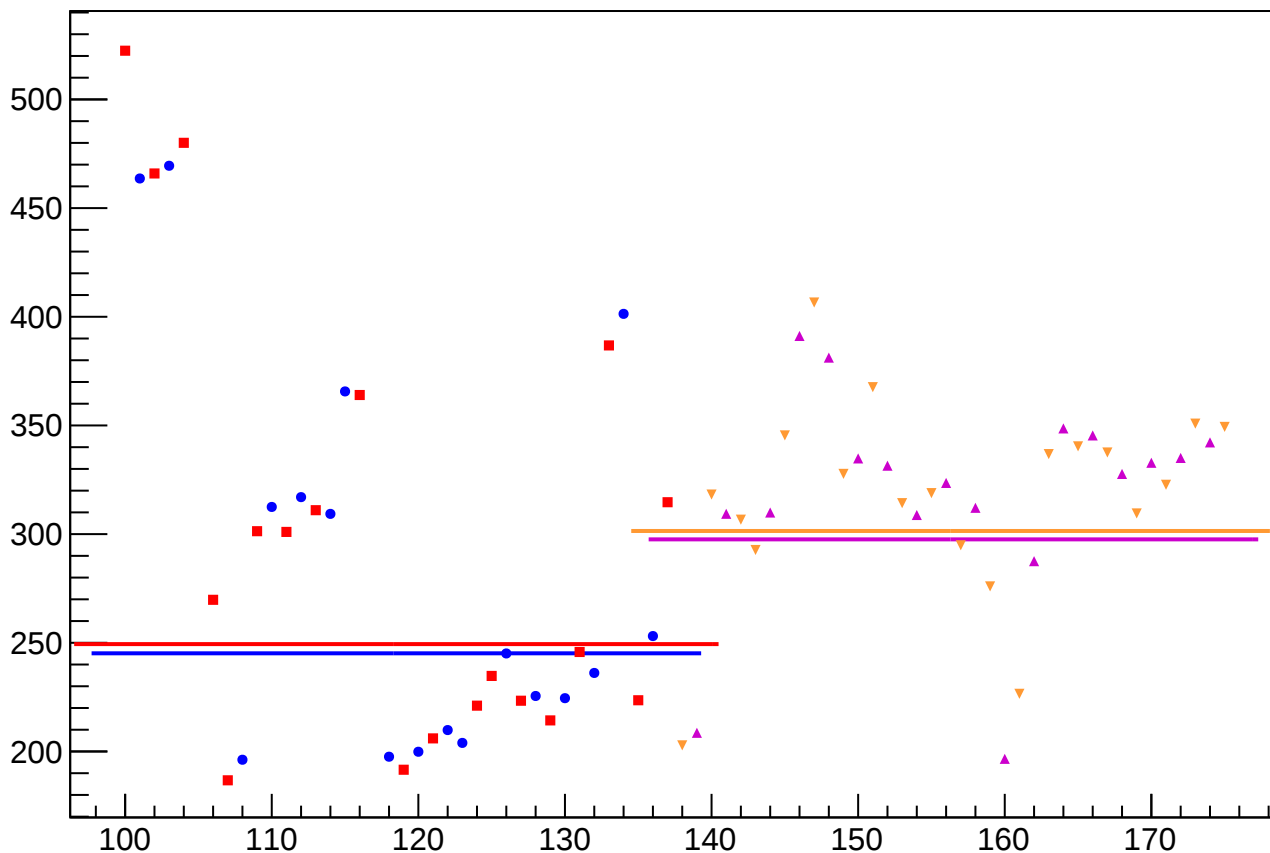
All: 188.499 $\pm$ 0.021 χ^2 /NDF: 4806998.7/73

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140839.133 $\pm$ 0.100	χ^2 /NDF: 822682996.3/16	Left: 137707.583 $\pm$ 0.057	χ^2 /NDF: 3166882482.7/3
Left Out: 137663.584 $\pm$ 0.080	χ^2 /NDF: 1759075011.7/19	Right: 140758.088 $\pm$ 0.070	χ^2 /NDF: 1664679717.2/3
Right Out: 140678.513 $\pm$ 0.099	χ^2 /NDF: 840695274.4/18	In: 139001.749 $\pm$ 0.064	χ^2 /NDF: 2796554246.0/34
Left In: 137754.210 $\pm$ 0.082	χ^2 /NDF: 1407185266.1/17	Out: 138854.102 $\pm$ 0.062	χ^2 /NDF: 3159847868.6/3
		All: 138926.370 $\pm$ 0.044	χ^2 /NDF: 59591535

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.159+/-0.071 χ^2/NDF : 869491.6/16

Left Out: 301.446+/-0.057 χ^2/NDF : 835810.4/19

Right Out: 249.397+/-0.070 χ^2/NDF : 1009731.2/18

Left In: 297.584+/-0.058 χ^2/NDF : 992173.2/17

Left: 299.571+/-0.041 χ^2/NDF : 1830243.5/37

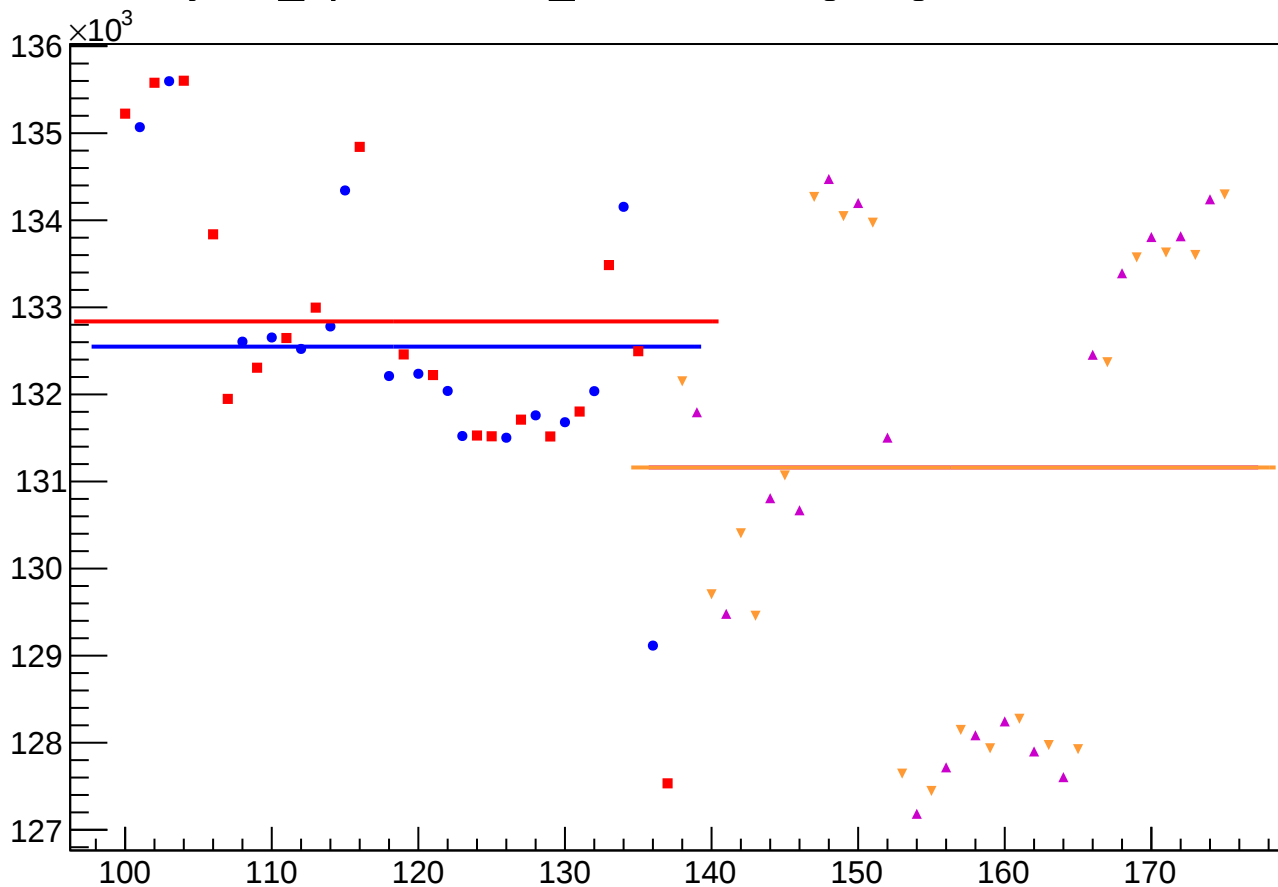
Right: 247.297+/-0.050 χ^2/NDF : 1881034.9/35

In: 276.383+/-0.045 χ^2/NDF : 2188976.6/34

Out: 280.893+/-0.044 χ^2/NDF : 2179390.5/38

All: 278.686+/-0.031 χ^2/NDF : 4373501.1/73

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132548.888+/-0.119

χ^2/NDF : 161115079.9/16

Left Out: 131161.072+/-0.068

χ^2/NDF : 1153771096.1/19

Right Out: 132838.294+/-0.107

χ^2/NDF : 149611447.6/18

Left In: 131161.561+/-0.073

χ^2/NDF : 1020058365.5/17

Left: 131161.301+/-0.050

χ^2/NDF : 2173829485.8/3

Right: 132709.226+/-0.080

χ^2/NDF : 313982981.1/3

In: 131535.794+/-0.062

χ^2/NDF : 1279807959.1/3

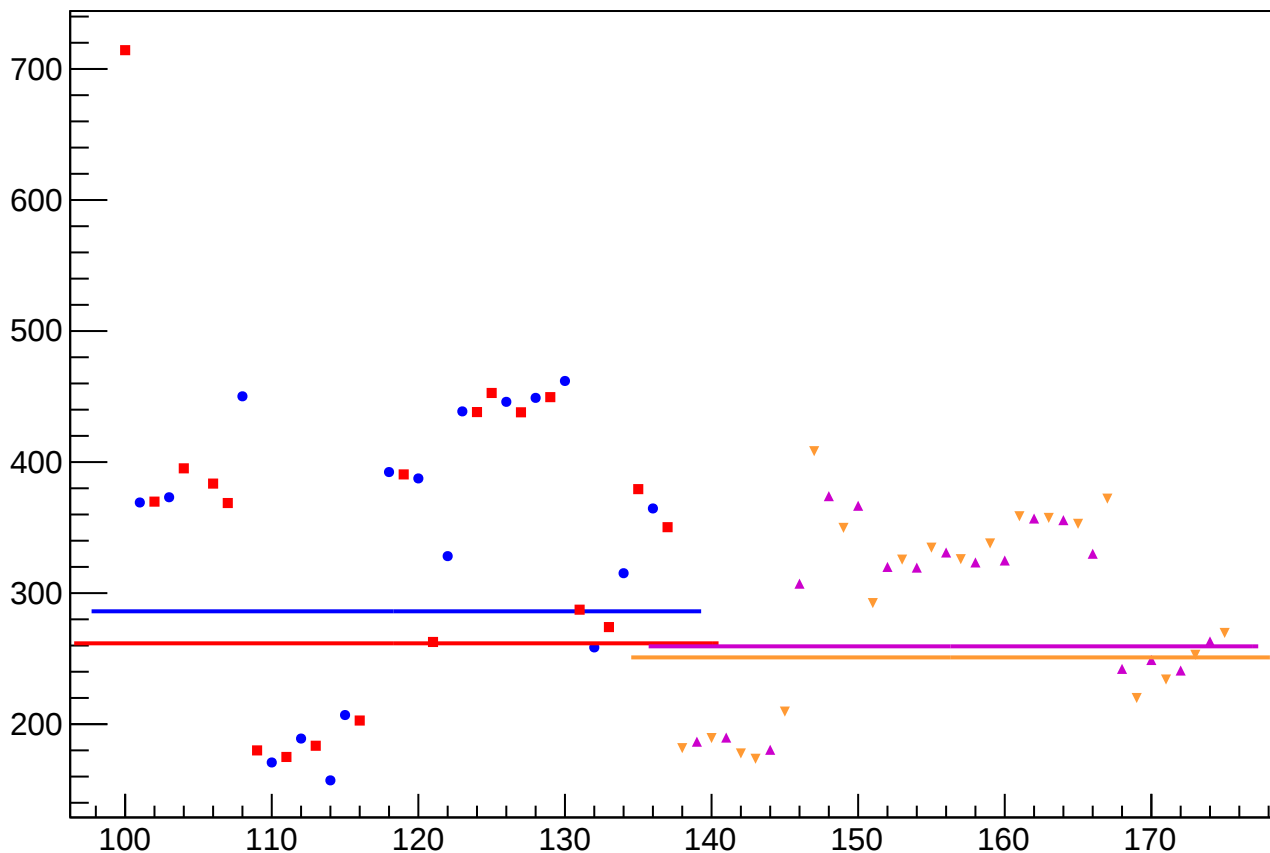
Out: 131643.082+/-0.057

χ^2/NDF : 1478147503.1/3

All: 131593.550+/-0.042

χ^2/NDF : 27595675

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.122 ± 0.084 $\chi^2/\text{NDF}: 1525266.4/16$

Left Out: 250.948 ± 0.048 $\chi^2/\text{NDF}: 2146832.5/19$

Right Out: 261.686 ± 0.076 $\chi^2/\text{NDF}: 1623174.1/18$

Left In: 259.388 ± 0.051 $\chi^2/\text{NDF}: 1656751.4/17$

Left: 254.896 ± 0.035 $\chi^2/\text{NDF}: 3817990.8/37$

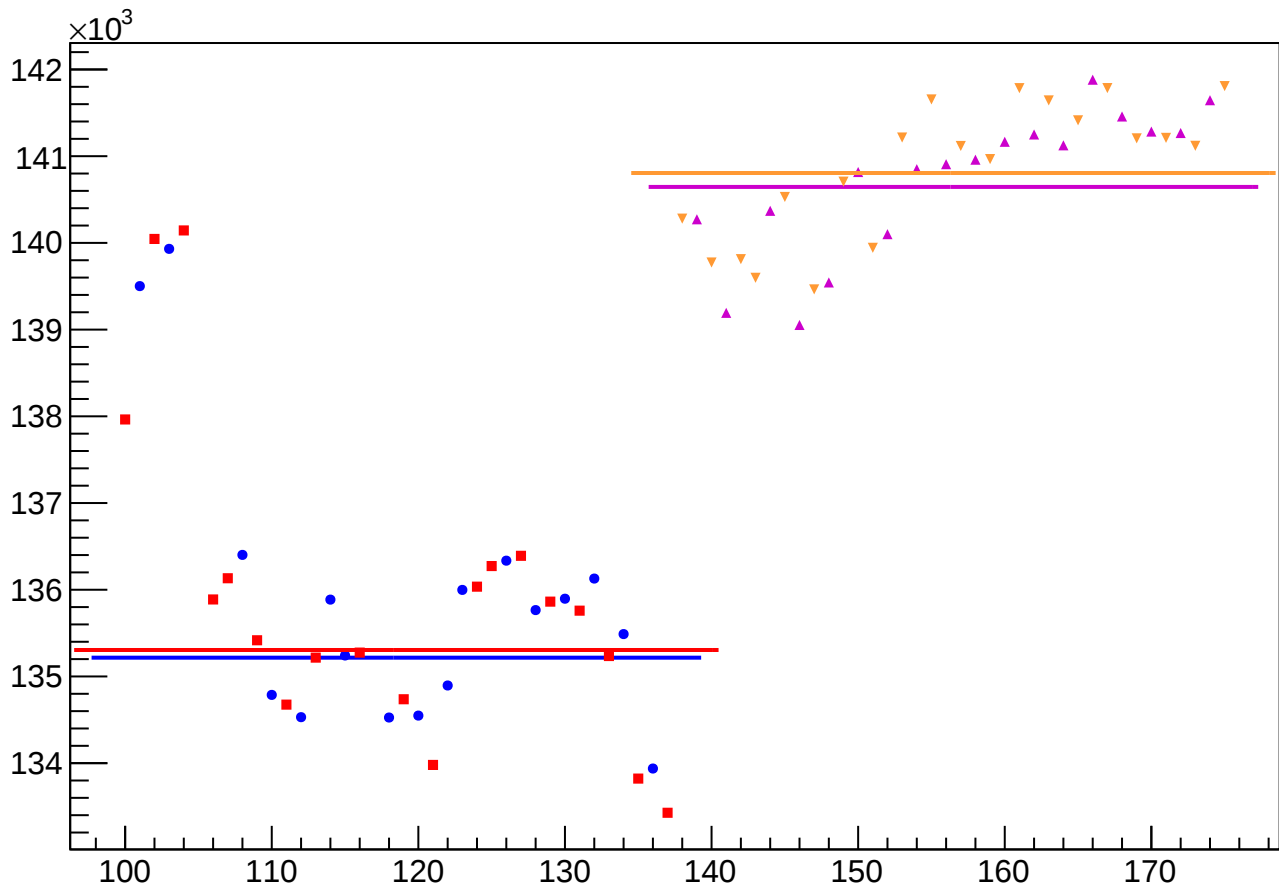
Right: 272.584 ± 0.056 $\chi^2/\text{NDF}: 3194872.3/35$

In: 266.600 ± 0.044 $\chi^2/\text{NDF}: 3255272.0/34$

Out: 254.034 ± 0.041 $\chi^2/\text{NDF}: 3784334.9/38$

All: 259.835 ± 0.030 $\chi^2/\text{NDF}: 7083834.4/73$

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.588 $\pm$ 0.054

χ^2 /NDF: 371347707.3/16

Left: 140730.443 $\pm$ 0.037

χ^2 /NDF: 412325487.6/37

Left Out: 140806.131 $\pm$ 0.051

χ^2 /NDF: 216993587.4/19

Right: 135263.557 $\pm$ 0.037

χ^2 /NDF: 730392205.8/37

Right Out: 135305.135 $\pm$ 0.051

χ^2 /NDF: 357636841.6/18

In: 137934.372 $\pm$ 0.038

χ^2 /NDF: 5555918591.8/37

Out: 138049.022 $\pm$ 0.036

χ^2 /NDF: 6345766368.3/37

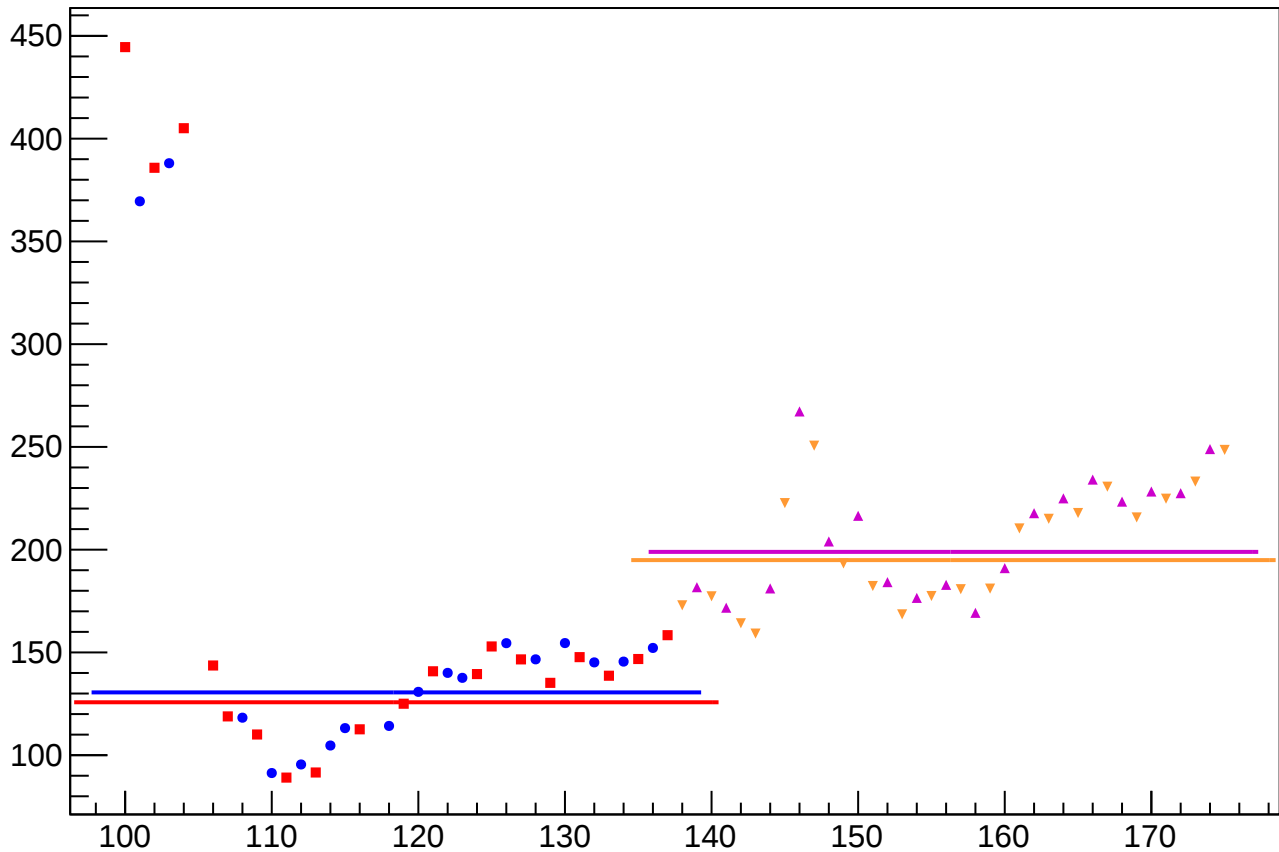
Left In: 140645.558 $\pm$ 0.054

χ^2 /NDF: 190707452.1/17

All: 137995.084 $\pm$ 0.026

χ^2 /NDF: 119064024.6/17

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.552 $\pm$ 0.038 χ^2 /NDF: 1373104.9/16

Left Out: 194.921 $\pm$ 0.036 χ^2 /NDF: 539727.6/19

Right Out: 125.746 $\pm$ 0.036 χ^2 /NDF: 1440002.5/18

Left In: 198.923 $\pm$ 0.038 χ^2 /NDF: 459446.3/17

Left: 196.808 $\pm$ 0.026 χ^2 /NDF: 1004918.5/37

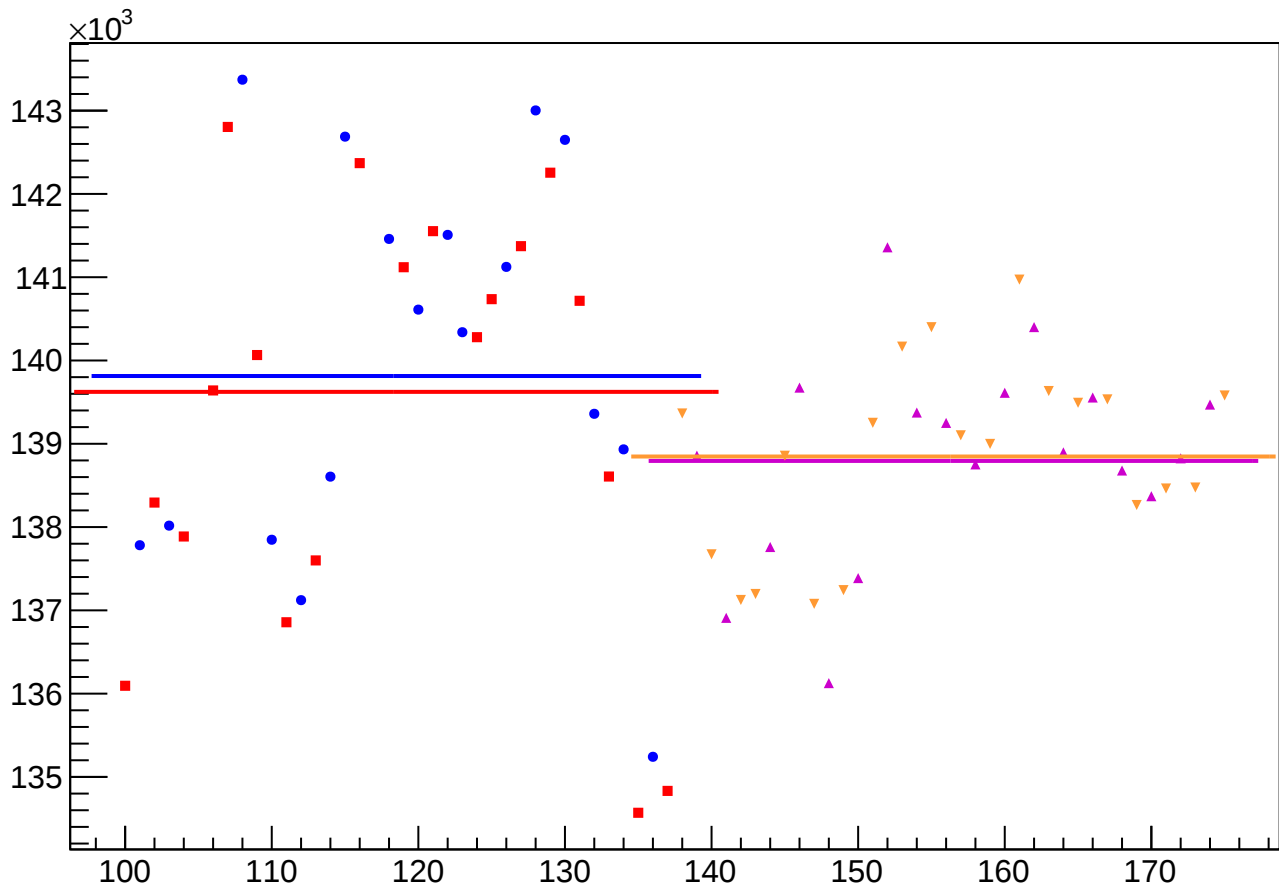
Right: 128.002 $\pm$ 0.026 χ^2 /NDF: 2821400.9/35

In: 164.779 $\pm$ 0.027 χ^2 /NDF: 3416649.6/34

Out: 160.250 $\pm$ 0.026 χ^2 /NDF: 3804953.7/38

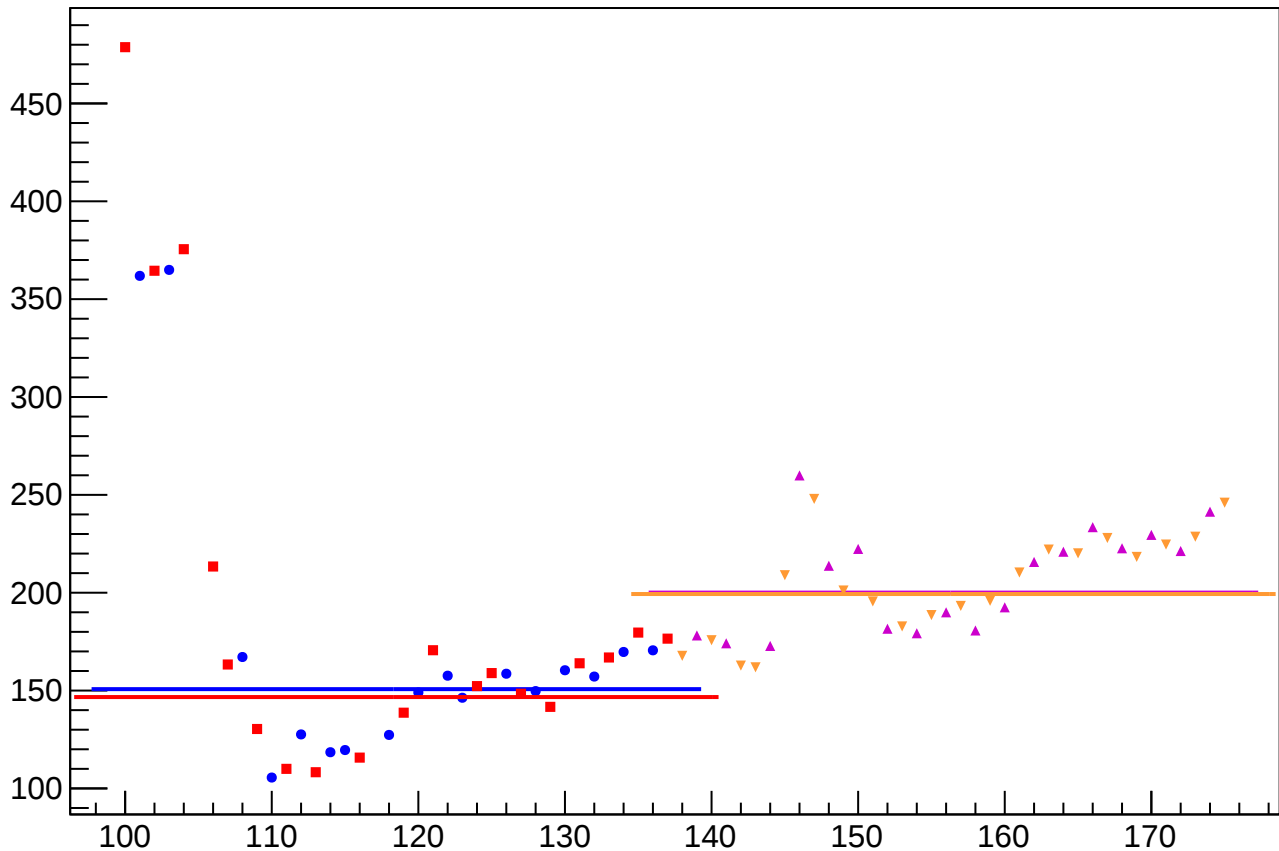
All: 162.381 $\pm$ 0.019 χ^2 /NDF: 7236323.4/73

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139813.664 $\pm$ 0.062	χ^2 /NDF: 1689865533.6/16	Left: 138821.747 $\pm$ 0.038	χ^2 /NDF: 991154410.2/37
Left Out: 138847.172 $\pm$ 0.052	χ^2 /NDF: 458076399.8/19	Right: 139713.961 $\pm$ 0.043	χ^2 /NDF: 3200544274.5/37
Right Out: 139623.387 $\pm$ 0.059	χ^2 /NDF: 1505731109.1/18	In: 139240.093 $\pm$ 0.041	χ^2 /NDF: 2374953488.9/34
Left In: 138794.187 $\pm$ 0.055	χ^2 /NDF: 532588136.9/17	Out: 139189.629 $\pm$ 0.039	χ^2 /NDF: 2060465906.5/37
		All: 139213.759 $\pm$ 0.028	χ^2 /NDF: 443621177.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.733 $\pm$ 0.044 χ^2 /NDF: 1050071.6/16

Left Out: 199.331 $\pm$ 0.037 χ^2 /NDF: 441294.9/19

Right Out: 146.686 $\pm$ 0.042 χ^2 /NDF: 1203106.6/18

Left In: 200.059 $\pm$ 0.039 χ^2 /NDF: 407238.8/17

Left: 199.680 $\pm$ 0.027 χ^2 /NDF: 848718.7/37

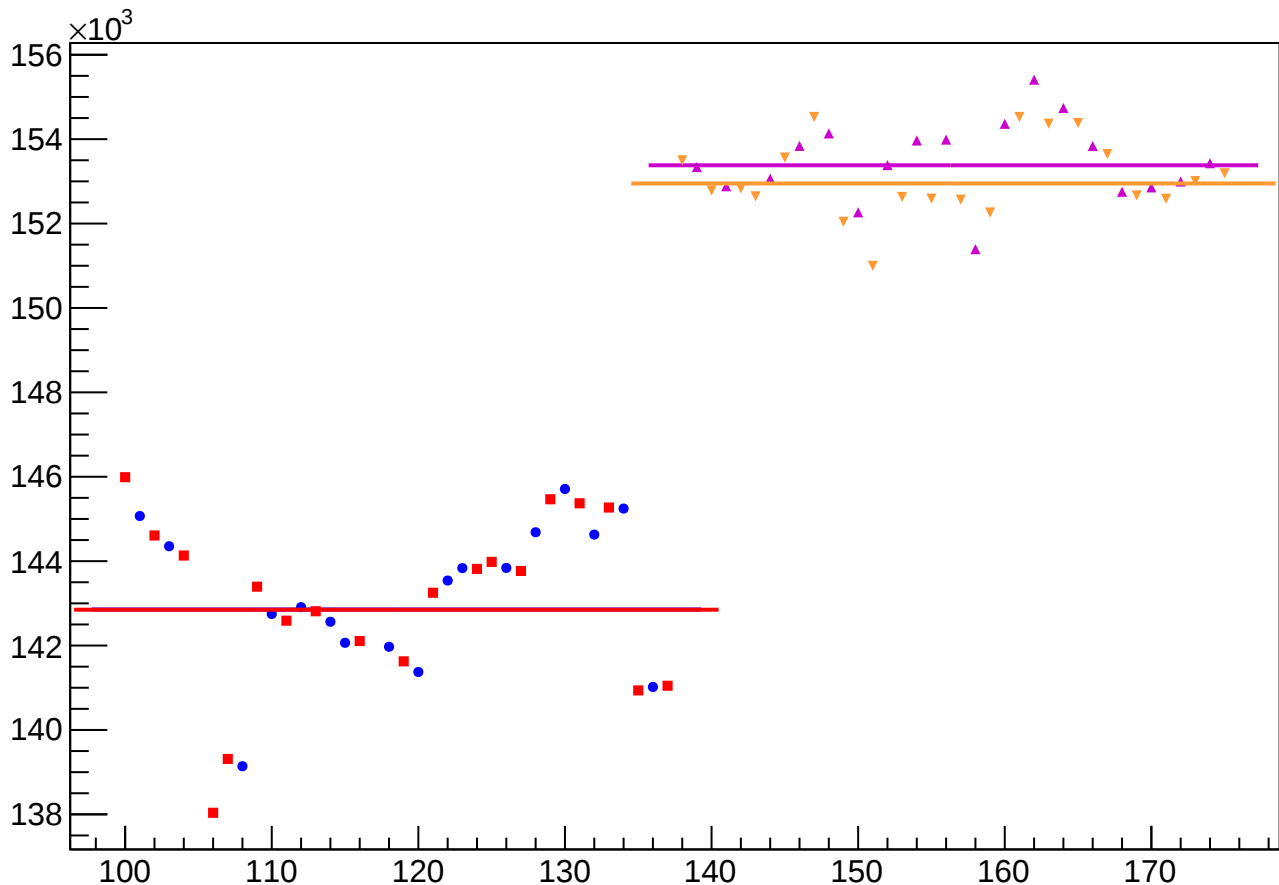
Right: 148.612 $\pm$ 0.030 χ^2 /NDF: 2257655.3/35

In: 178.485 $\pm$ 0.029 χ^2 /NDF: 2171312.5/34

Out: 176.105 $\pm$ 0.028 χ^2 /NDF: 2533656.1/38

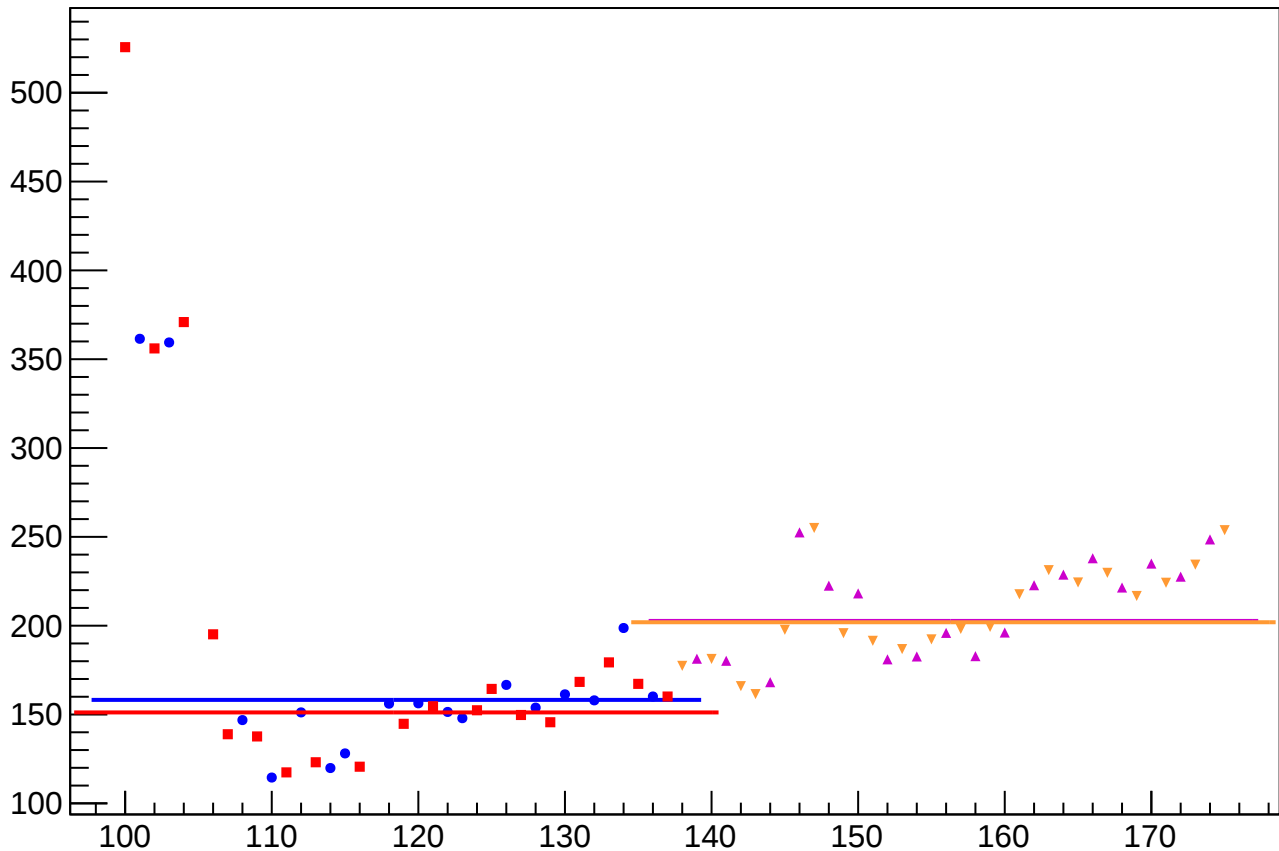
All: 177.243 $\pm$ 0.020 χ^2 /NDF: 4708493.6/73

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142854.268 $\pm$ 0.065 χ^2 /NDF: 740367386.5/16
 Left Out: 152949.852 $\pm$ 0.053 χ^2 /NDF: 263430997.2/19
 Right Out: 142849.362 $\pm$ 0.060 χ^2 /NDF: 850066807.5/18
 Left In: 153380.838 $\pm$ 0.055 χ^2 /NDF: 272429340.5/17
 All: 148733.125 $\pm$ 0.029 χ^2 /NDF: 332688370

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.233+/-0.046 χ^2/NDF : 883513.4/16

Left Out: 201.940+/-0.038 χ^2/NDF : 441112.1/19

Right Out: 151.174+/-0.043 χ^2/NDF : 1003301.6/18

Left In: 202.674+/-0.039 χ^2/NDF : 421928.2/17

Left: 202.292+/-0.027 χ^2/NDF : 863224.1/37

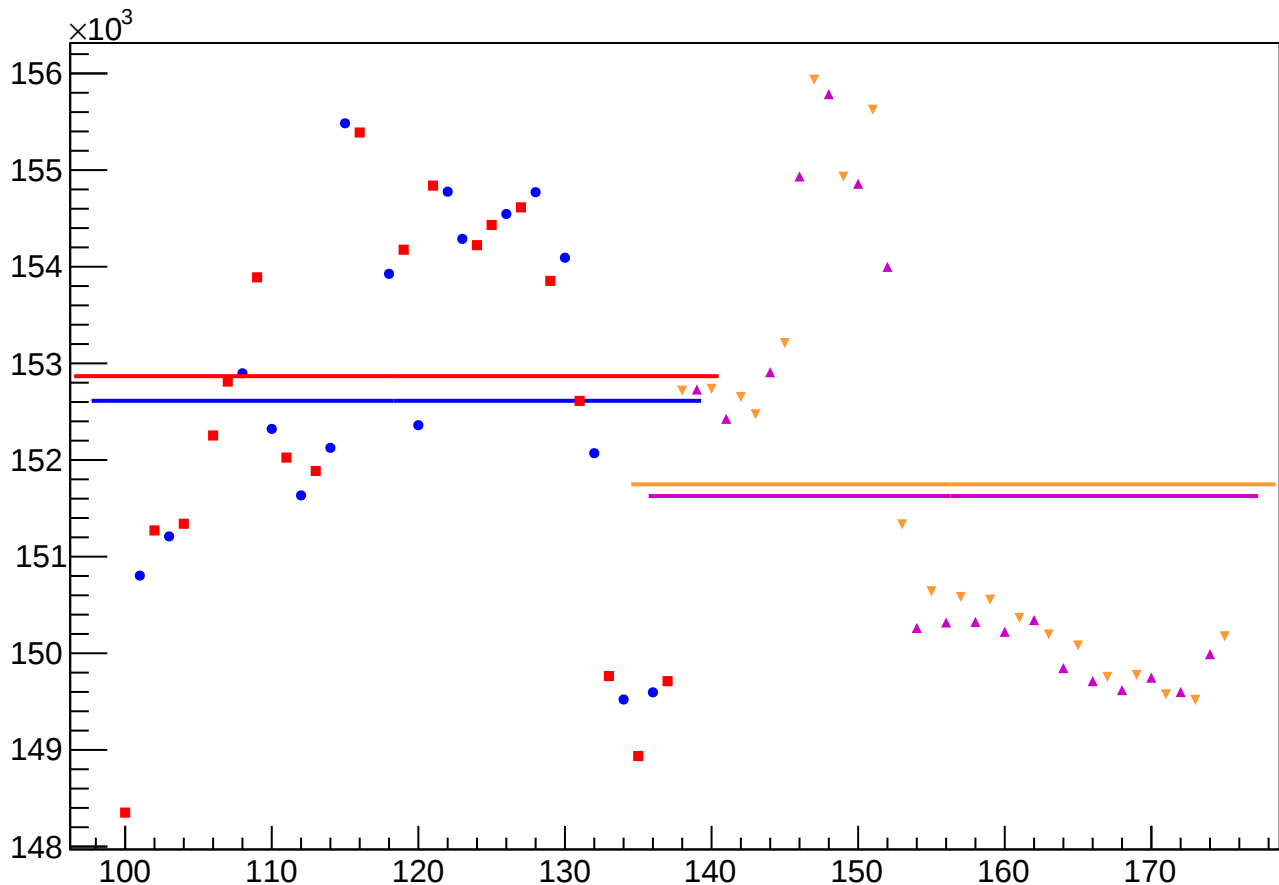
Right: 154.463+/-0.031 χ^2/NDF : 1899543.0/35

In: 183.914+/-0.030 χ^2/NDF : 1851360.6/34

Out: 179.823+/-0.028 χ^2/NDF : 2241838.7/38

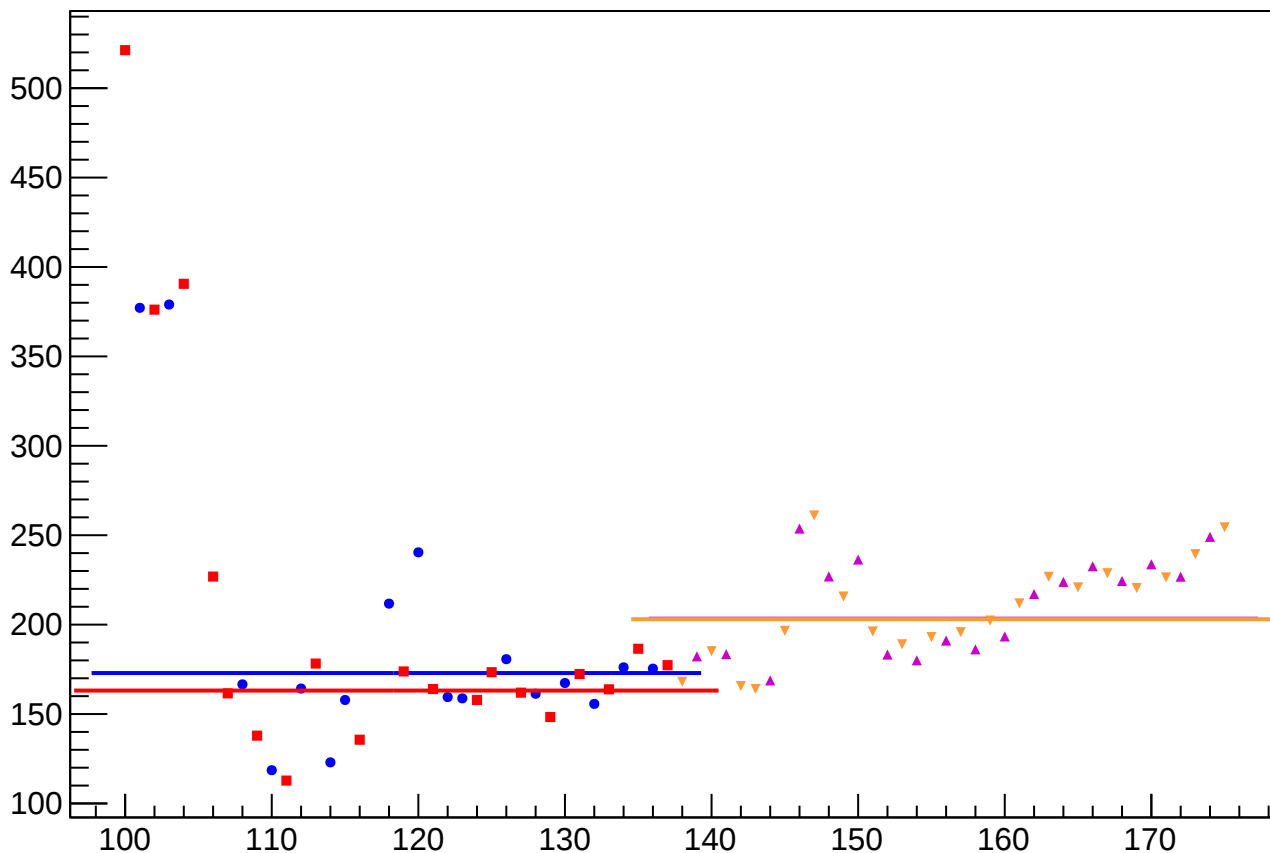
All: 181.761+/-0.020 χ^2/NDF : 4103178.2/73

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152612.586 $\pm$ 0.072	χ^2 /NDF: 621416187.4/16	Left: 151690.092 $\pm$ 0.038	χ^2 /NDF: 2524682931.2/3
Left Out: 151748.276 $\pm$ 0.053	χ^2 /NDF: 1271539284.2/19	Right: 152750.957 $\pm$ 0.049	χ^2 /NDF: 1347263895.4/3
Right Out: 152867.453 $\pm$ 0.066	χ^2 /NDF: 719075986.4/18	In: 151991.964 $\pm$ 0.044	χ^2 /NDF: 1989503648.0/3
Left In: 151627.147 $\pm$ 0.055	χ^2 /NDF: 1250653054.3/17	Out: 152187.260 $\pm$ 0.041	χ^2 /NDF: 2164235693.2/3
		All: 152095.185 $\pm$ 0.030	χ^2 /NDF: 416419507.2/3

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.921+/-0.051 χ^2/NDF : 941954.0/16

Left Out: 203.046+/-0.038 χ^2/NDF :466793.5/19

Right Out: 163.138+/-0.047 χ^2/NDF : 1033751.2/18

Left In: 203.328+/-0.039 χ^2/NDF :431149.5/17

Left: 203.181+/-0.027 χ^2/NDF : 897969.9/37

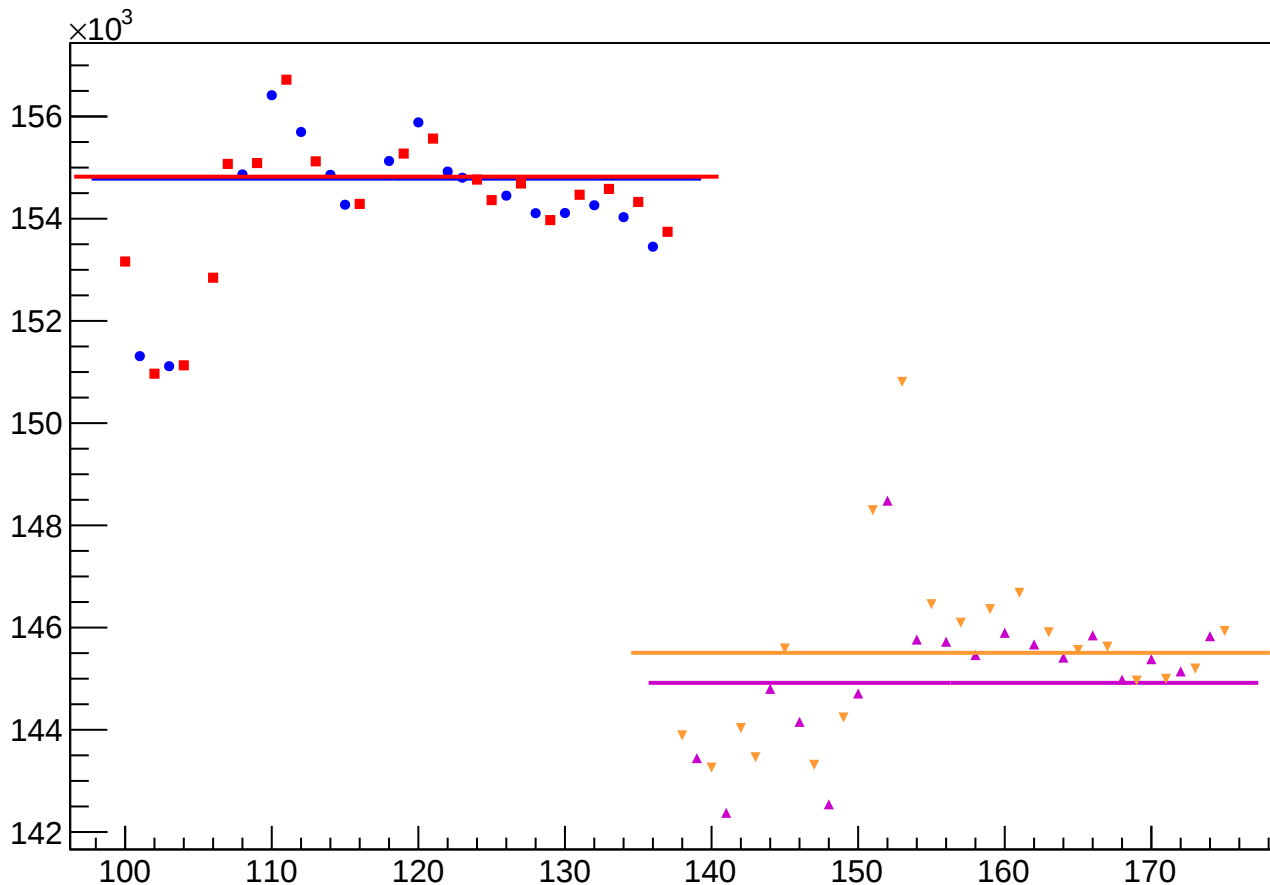
Right: 167.610+/-0.034 χ^2/NDF : 1995658.5/35

In: 192.071+/-0.031 χ^2/NDF :1596722.9/34

Out: 187.393+/-0.029 χ^2/NDF :1942070.5/38

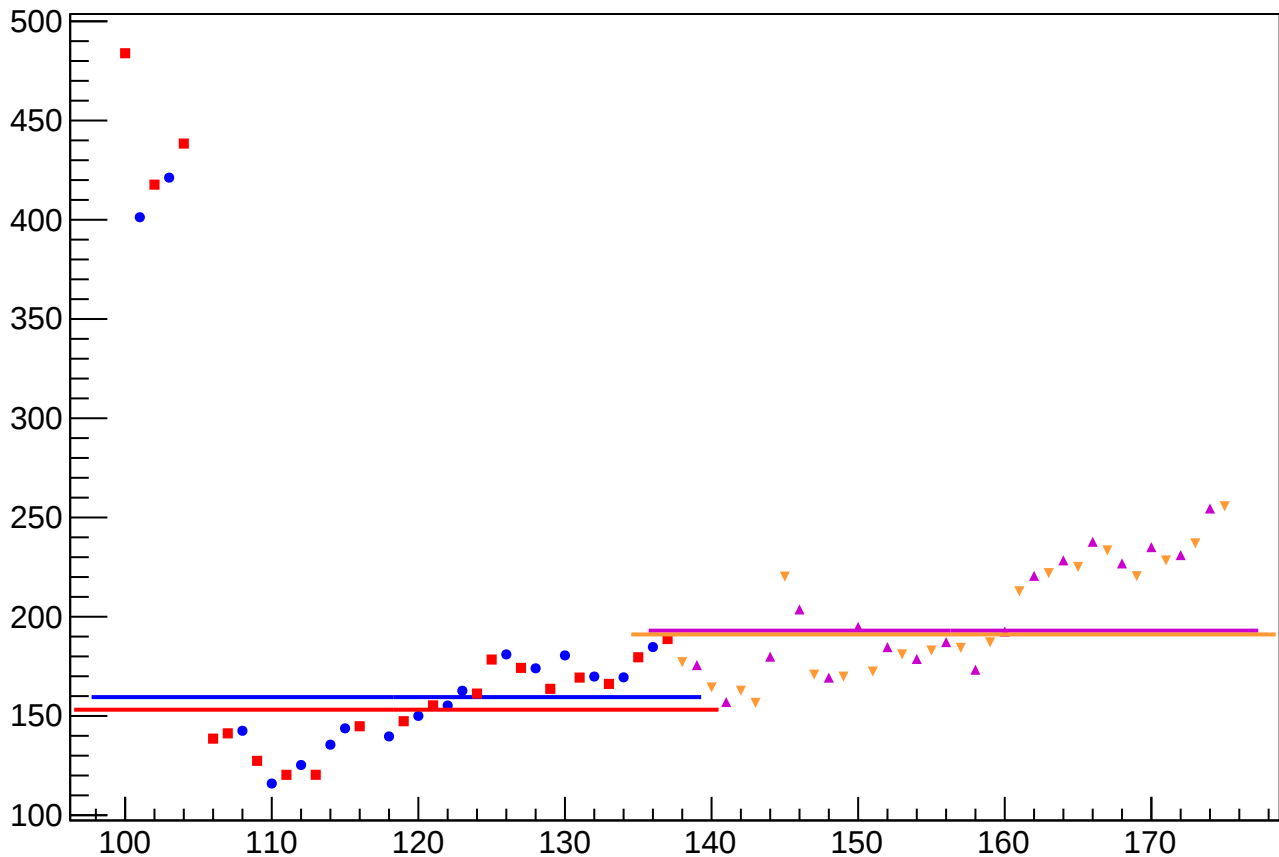
All: 189.598+/-0.021 χ^2/NDF : 3550791.9/73

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154783.944 $\pm$ 0.065	χ^2 /NDF: 265581398.0/16	Left: 145226.111 $\pm$ 0.036	χ^2 /NDF: 2397109253.8/3
Left Out: 145506.176 $\pm$ 0.050	χ^2 /NDF: 1494728979.5/19	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: 148783.069 $\pm$ 0.041	χ^2 /NDF: 14956671193.9/3
Left In: 144918.895 $\pm$ 0.052	χ^2 /NDF: 836808431.9/17	Out: 149265.637 $\pm$ 0.039	χ^2 /NDF: 15751156813.8
		All: 149037.875 $\pm$ 0.028	χ^2 /NDF: 307812929

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.504+/-0.046 χ^2/NDF : 1131844.5/16

Left Out: 191.077+/-0.035 χ^2/NDF : 594945.1/19

Right Out: 153.153+/-0.043 χ^2/NDF : 1173739.7/18

Left In: 192.987+/-0.037 χ^2/NDF : 484698.9/17

Left: 191.988+/-0.026 χ^2/NDF : 1081030.4/37

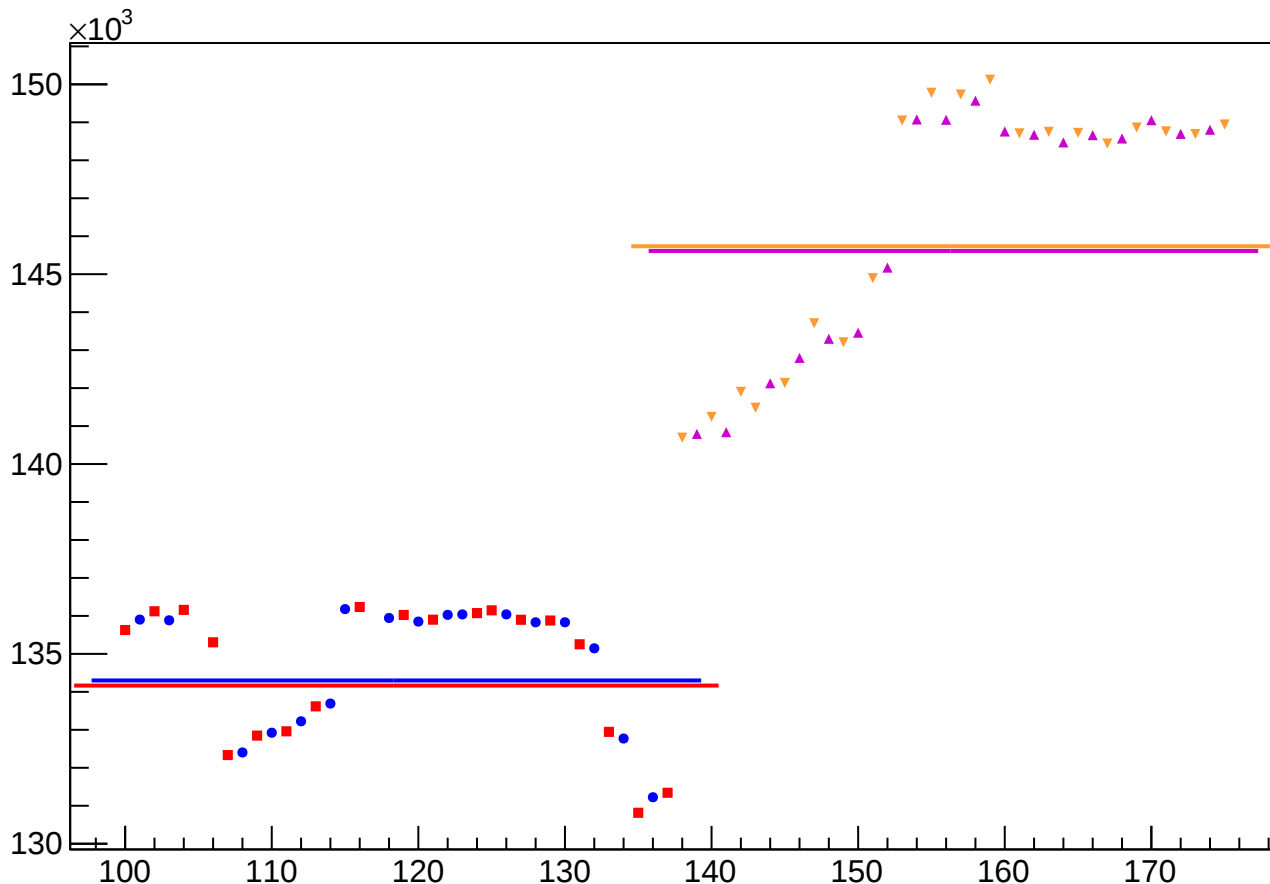
Right: 156.104+/-0.032 χ^2/NDF : 2315690.5/35

In: 179.871+/-0.029 χ^2/NDF : 1935745.3/34

Out: 175.773+/-0.027 χ^2/NDF : 2231455.6/38

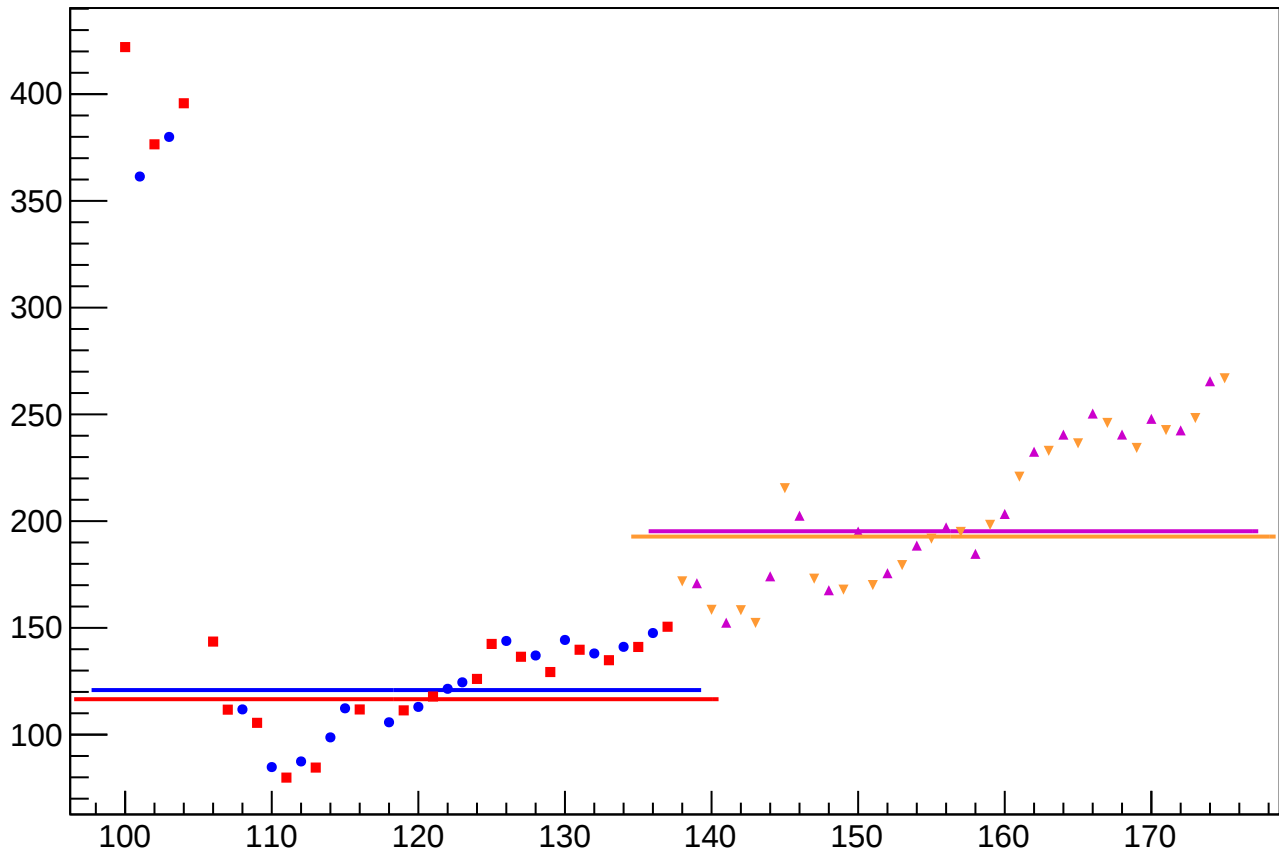
All: 177.707+/-0.020 χ^2/NDF : 4177798.1/73

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134300.025+/-0.050	χ^2/NDF : 1149581803.2/16	Left: 145676.439+/-0.037	χ^2/NDF : 8765579185.5/3
Left Out: 145735.327+/-0.051	χ^2/NDF : 4780918464.9/19	Right: 134228.768+/-0.035	χ^2/NDF : 2364832007.2/3
Right Out: 134165.615+/-0.047	χ^2/NDF : 1211471052.4/18	In: 139632.815+/-0.037	χ^2/NDF : 28933142740.5/3
Left In: 145611.478+/-0.053	χ^2/NDF : 3981829142.4/17	Out: 139555.065+/-0.035	χ^2/NDF : 33753275655.0
		All: 139591.801+/-0.025	χ^2/NDF : 626887983

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.872 $\pm$ 0.036 χ^2/NDF : 1463728.4/16

Left Out: 192.768 $\pm$ 0.036 χ^2/NDF : 835136.1/19

Right Out: 116.595 $\pm$ 0.034 χ^2/NDF : 1541338.5/18

Left In: 195.262 $\pm$ 0.038 χ^2/NDF : 679957.4/17

Left: 193.954 $\pm$ 0.026 χ^2/NDF : 1517390.5/37

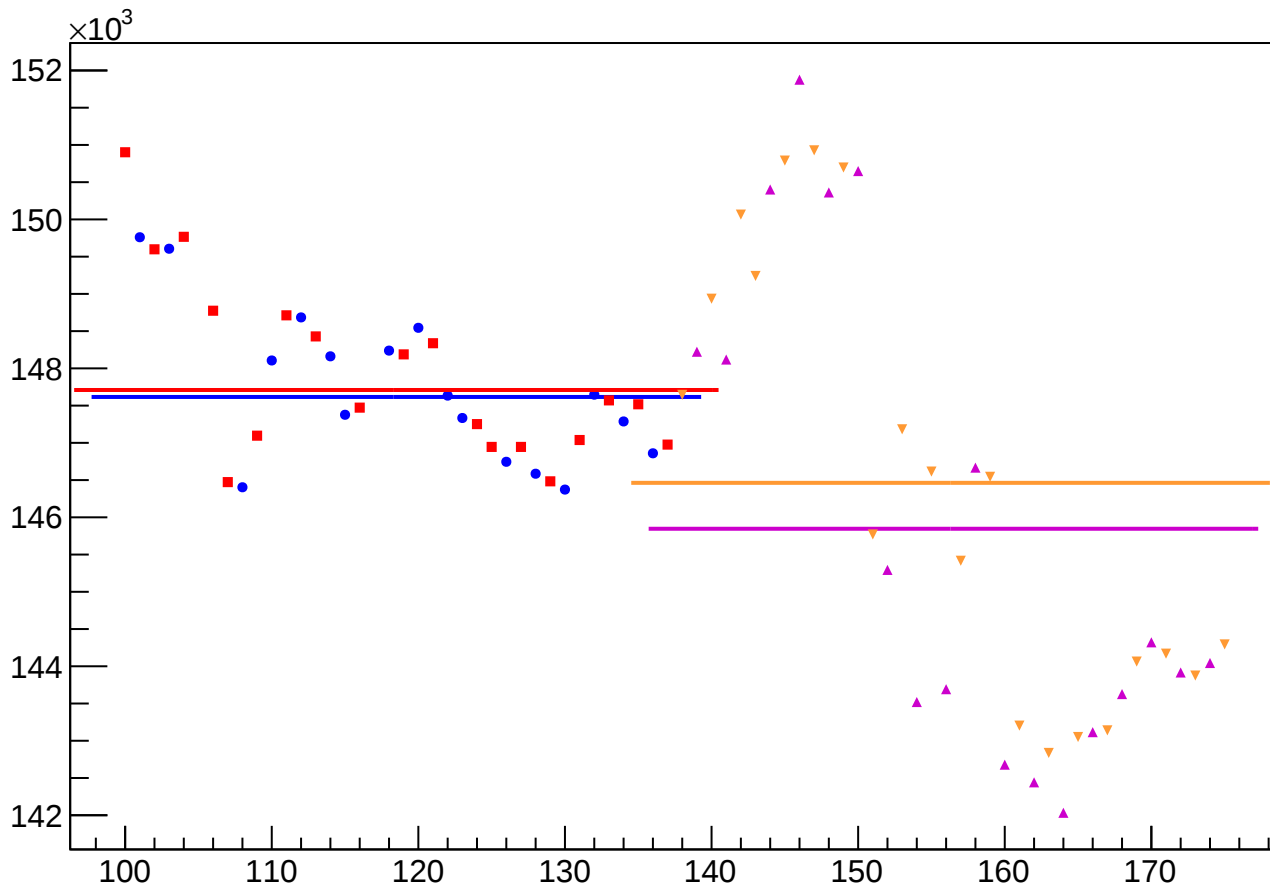
Right: 118.605 $\pm$ 0.024 χ^2/NDF : 3012723.0/35

In: 155.943 $\pm$ 0.026 χ^2/NDF : 4202541.1/34

Out: 152.078 $\pm$ 0.024 χ^2/NDF : 4783171.3/38

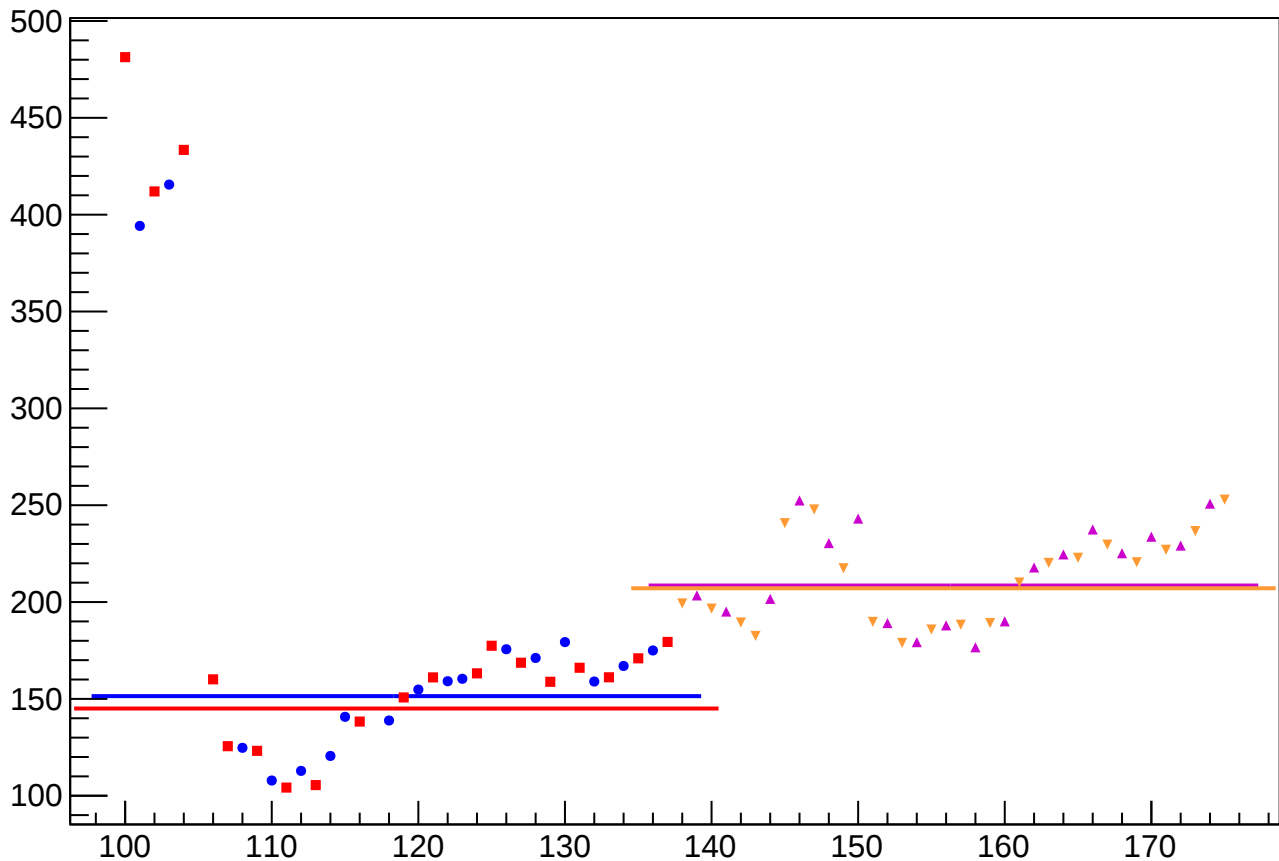
All: 153.904 $\pm$ 0.018 χ^2/NDF : 8997481.2/73

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147616.150+/-0.062	χ^2/NDF : 199263428.7/16	Left: 146168.548+/-0.039	χ^2/NDF : 5213926559.3/3
Left Out: 146463.033+/-0.054	χ^2/NDF : 2309277446.9/19	Right: 147666.153+/-0.043	χ^2/NDF : 404368550.3/3
Right Out: 147709.723+/-0.058	χ^2/NDF : 203906685.9/18	In: 146643.913+/-0.042	χ^2/NDF : 3482593555.5/3
Left In: 145846.456+/-0.057	χ^2/NDF : 2842633557.1/17	Out: 147039.693+/-0.040	χ^2/NDF : 2758727547.5/3
		All: 146852.830+/-0.029	χ^2/NDF : 628832016

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.424 $\pm$ 0.044 χ^2/NDF : 1257843.0/16

Left Out: 207.119 $\pm$ 0.038 χ^2/NDF : 336539.9/19

Right Out: 145.039 $\pm$ 0.041 χ^2/NDF : 1375972.0/18

Left In: 208.533 $\pm$ 0.040 χ^2/NDF : 360689.2/17

Left: 207.795 $\pm$ 0.028 χ^2/NDF : 697881.6/37

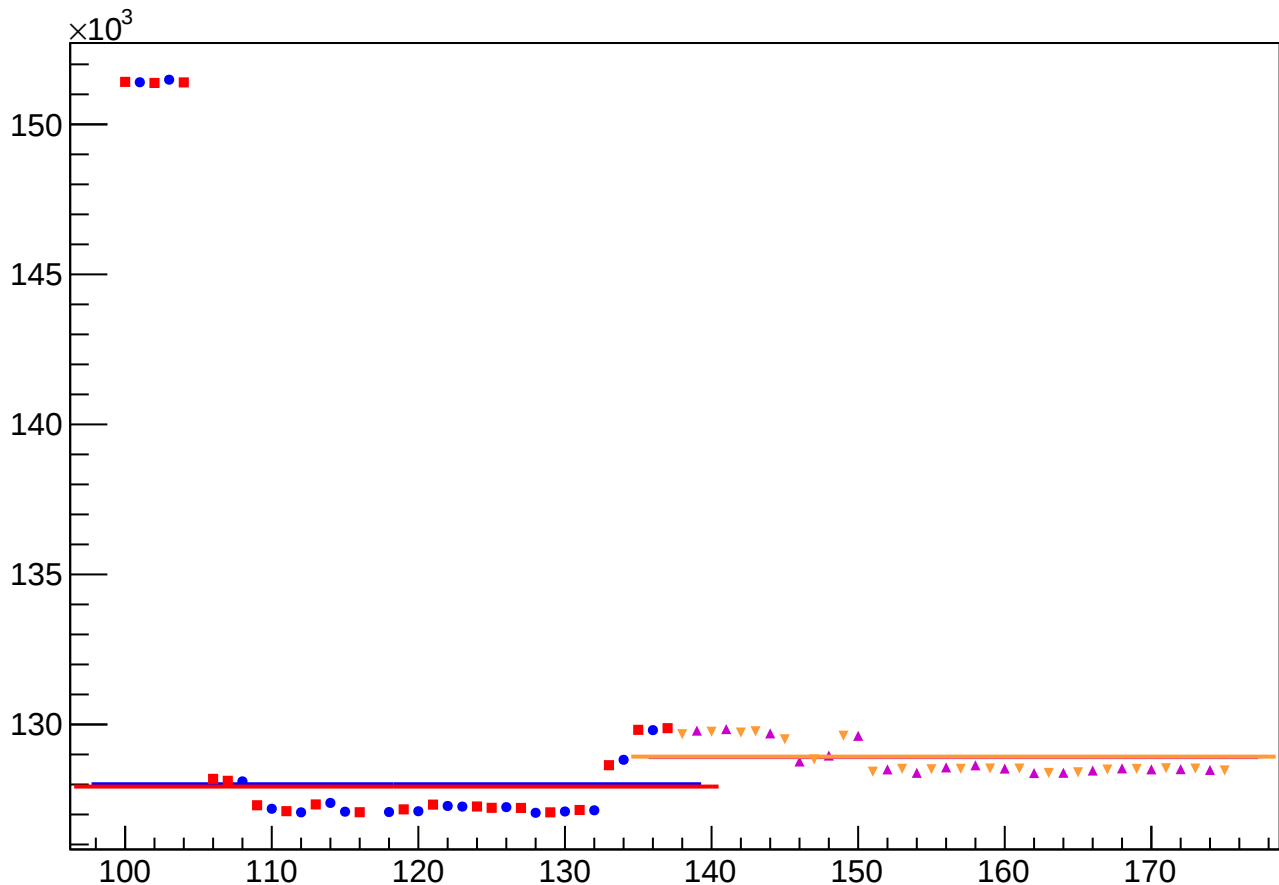
Right: 148.012 $\pm$ 0.030 χ^2/NDF : 2644973.7/35

In: 182.799 $\pm$ 0.030 χ^2/NDF : 2536416.5/34

Out: 178.404 $\pm$ 0.028 χ^2/NDF : 2930215.2/38

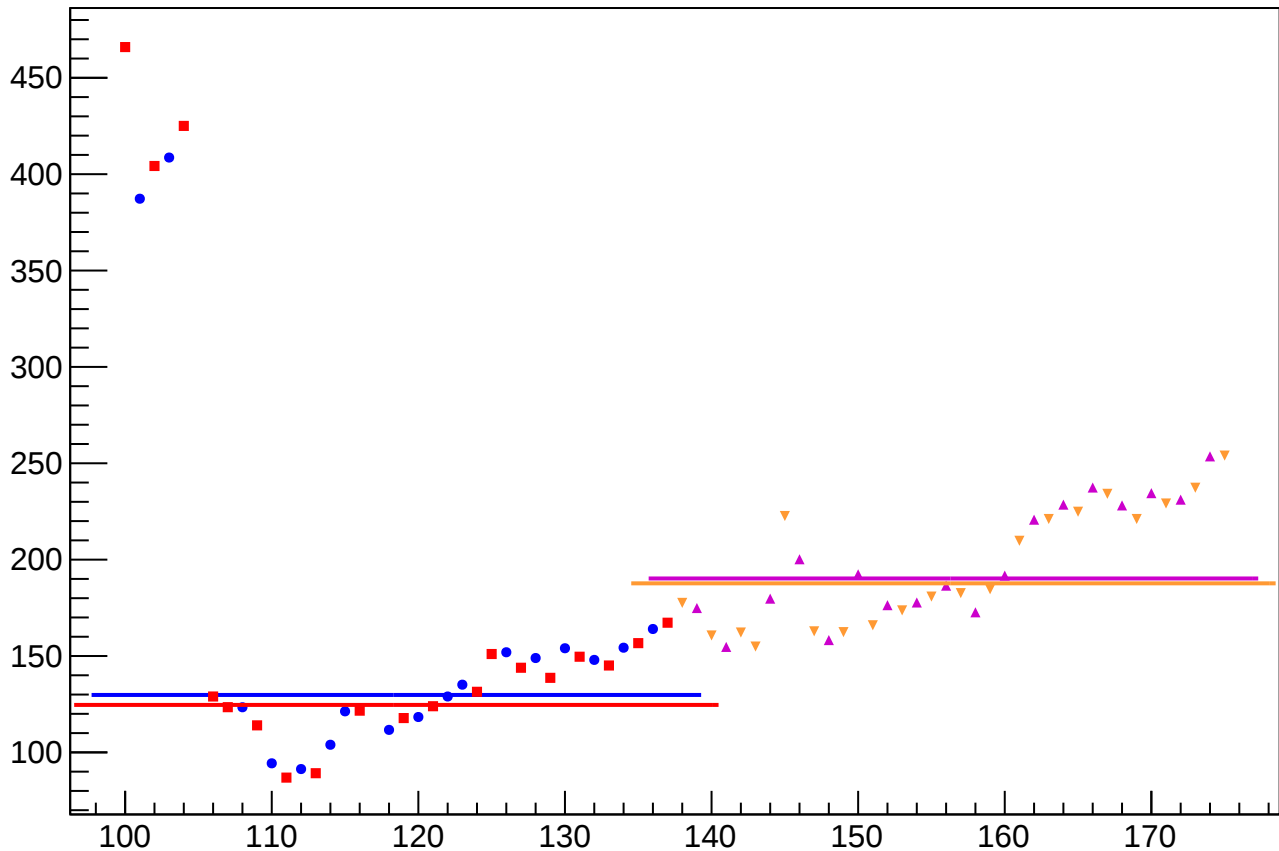
All: 180.479 $\pm$ 0.020 χ^2/NDF : 5478222.1/73

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128007.364 $\pm$ 0.054 χ^2 /NDF: 4319785674.5/16
 Left Out: 128928.130 $\pm$ 0.049 χ^2 /NDF: 129256359.0/19
 Right Out: 127930.136 $\pm$ 0.050 χ^2 /NDF: 3768176193.0/18
 Left In: 128912.443 $\pm$ 0.052 χ^2 /NDF: 113895430.2/17
 Left: 128920.681 $\pm$ 0.036 χ^2 /NDF: 243199982.0/37
 Right: 127965.988 $\pm$ 0.037 χ^2 /NDF: 8089052681.4/37
 In: 128479.892 $\pm$ 0.037 χ^2 /NDF: 4579676780.5/34
 Out: 128440.577 $\pm$ 0.035 χ^2 /NDF: 4098127068.1/34
 All: 128459.043 $\pm$ 0.026 χ^2 /NDF: 867838934.0/68

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.796 $\pm$ 0.038 χ^2 /NDF: 1485294.2/16

Left Out: 187.701 $\pm$ 0.035 χ^2 /NDF: 691078.3/19

Right Out: 124.625 $\pm$ 0.036 χ^2 /NDF: 1531827.4/18

Left In: 190.232 $\pm$ 0.037 χ^2 /NDF: 552793.3/17

Left: 188.903 $\pm$ 0.025 χ^2 /NDF: 1246380.8/37

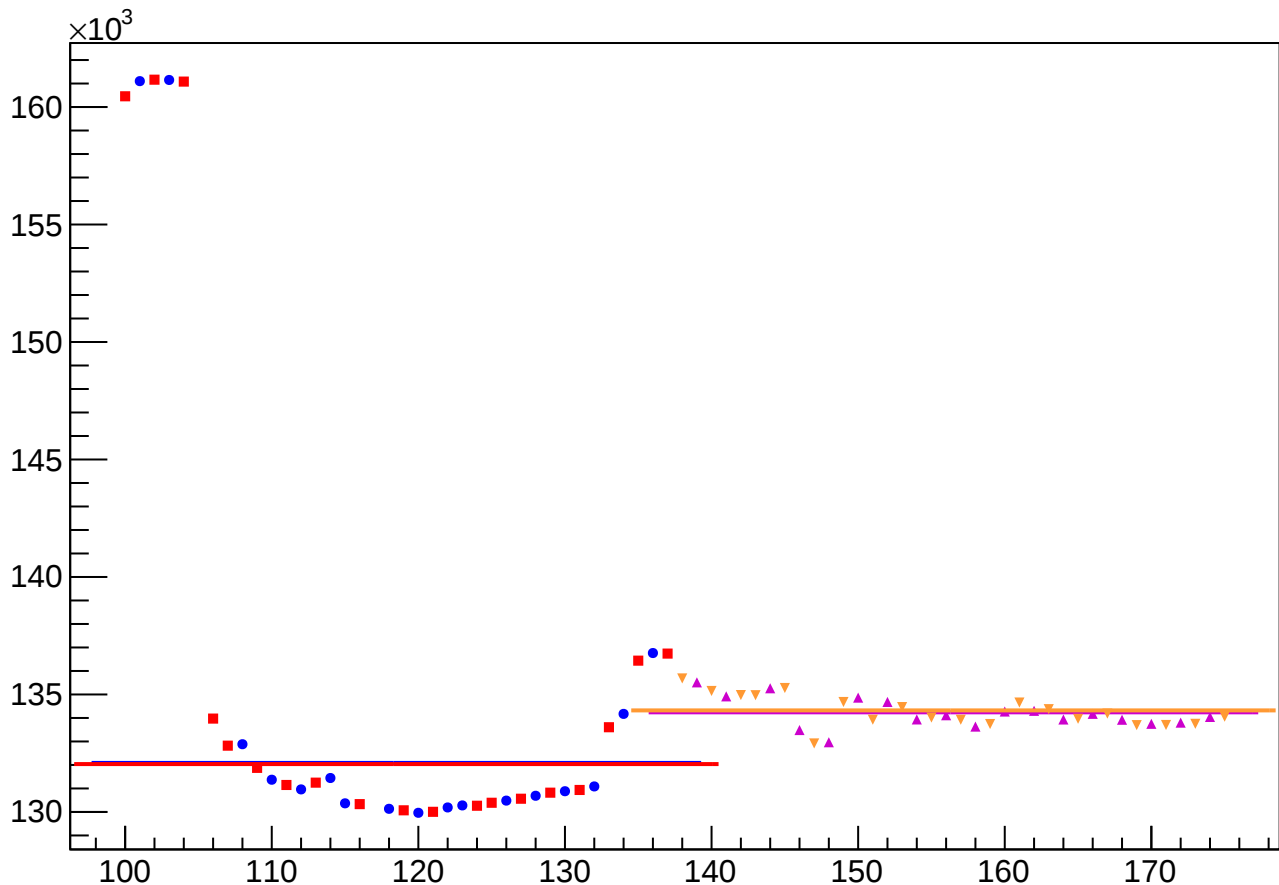
Right: 127.025 $\pm$ 0.026 χ^2 /NDF: 3026904.3/35

In: 161.349 $\pm$ 0.026 χ^2 /NDF: 3340014.7/34

Out: 156.886 $\pm$ 0.025 χ^2 /NDF: 3826309.1/38

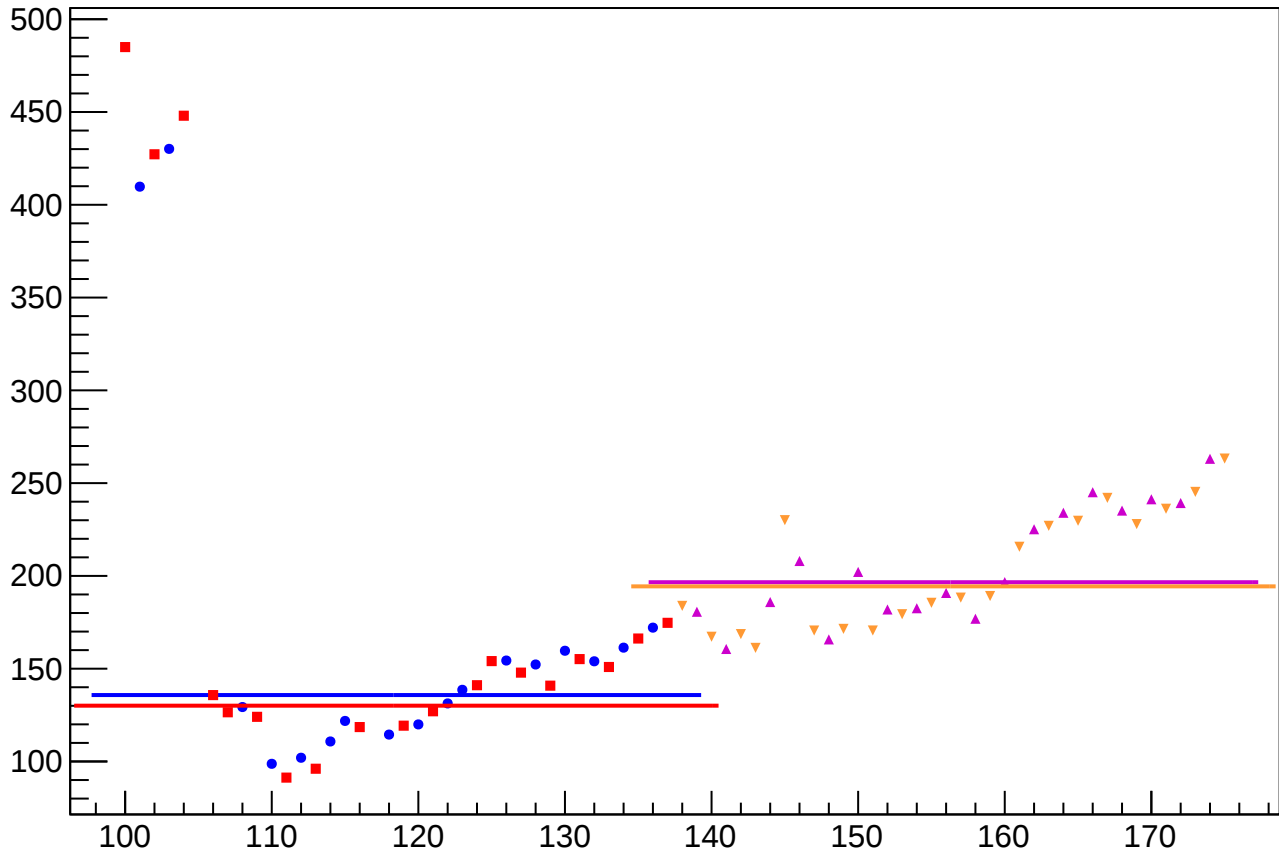
All: 158.982 $\pm$ 0.018 χ^2 /NDF: 7181411.3/73

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132086.794+/-0.057	χ^2/NDF : 6733230928.7/16	Left: 134282.816+/-0.037	χ^2/NDF : 349270000.7/3
Left Out: 134321.854+/-0.051	χ^2/NDF : 182152135.3/19	Right: 132060.364+/-0.038	χ^2/NDF : 12615754245.1/3
Right Out: 132037.539+/-0.053	χ^2/NDF : 5882115872.9/18	In: 133222.311+/-0.039	χ^2/NDF : 7664276958.9/34
Left In: 134239.791+/-0.054	χ^2/NDF : 165884645.3/17	Out: 133214.163+/-0.037	χ^2/NDF : 7038327705.1/3
		All: 133217.991+/-0.027	χ^2/NDF : 147026279

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.796 $\pm$ 0.040 χ^2 /NDF: 1441904.9/16

Left Out: 194.364 $\pm$ 0.036 χ^2 /NDF: 658494.8/19

Right Out: 130.070 $\pm$ 0.037 χ^2 /NDF: 1503997.6/18

Left In: 196.597 $\pm$ 0.038 χ^2 /NDF: 538264.6/17

Left: 195.426 $\pm$ 0.026 χ^2 /NDF: 1198586.4/37

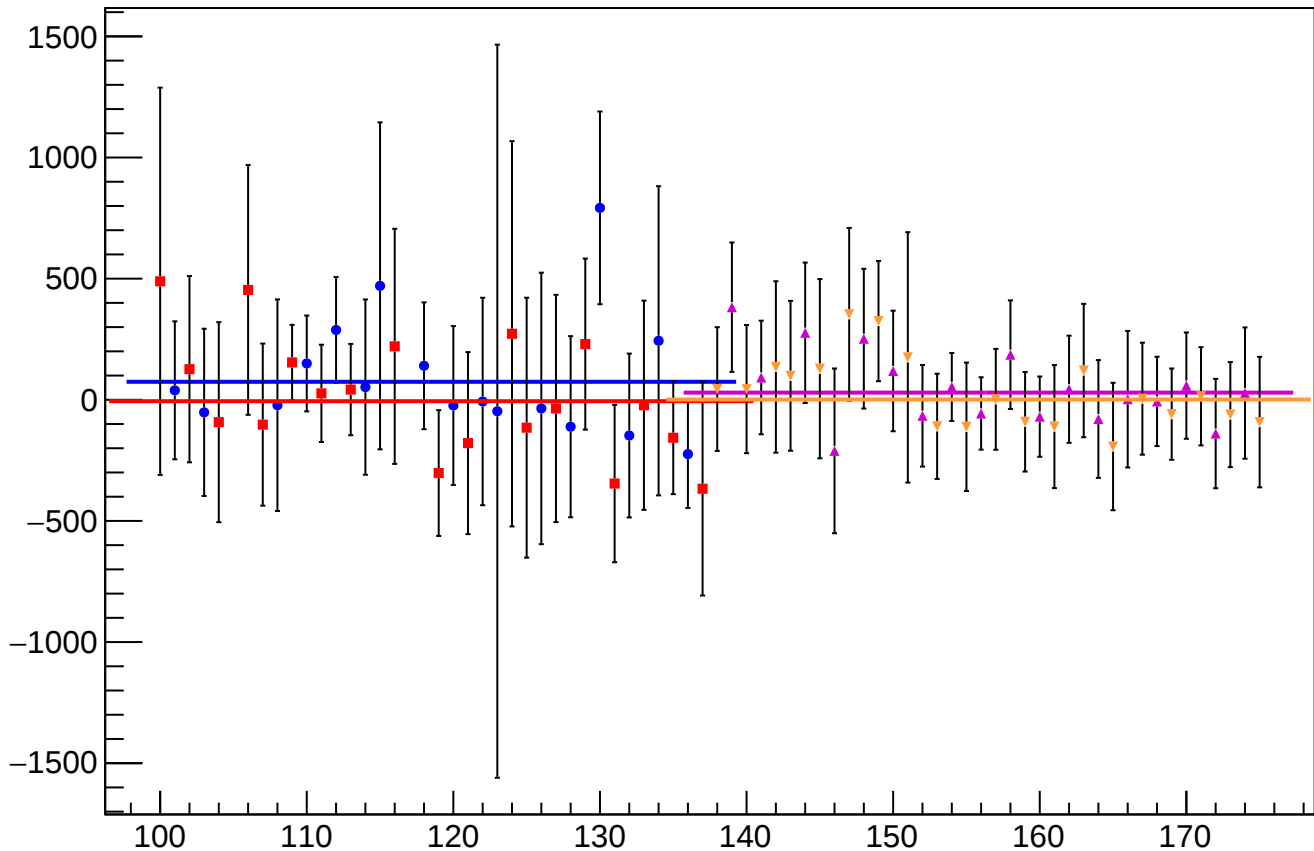
Right: 132.723 $\pm$ 0.027 χ^2 /NDF: 2956918.0/35

In: 167.863 $\pm$ 0.027 χ^2 /NDF: 3200605.3/34

Out: 163.187 $\pm$ 0.026 χ^2 /NDF: 3705774.0/38

All: 165.384 $\pm$ 0.019 χ^2 /NDF: 6921738.6/73

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.294+/-79.018 χ^2/NDF : 7.7/16

Left Out: 1.098+/-56.353 χ^2/NDF : 5.1/19

Right Out: -5.739+/-70.069 χ^2/NDF : 7.1/18

Left In: 29.654+/-50.702 χ^2/NDF : 6.0/17

Left: 16.879+/-37.692 χ^2/NDF : 11.2/37

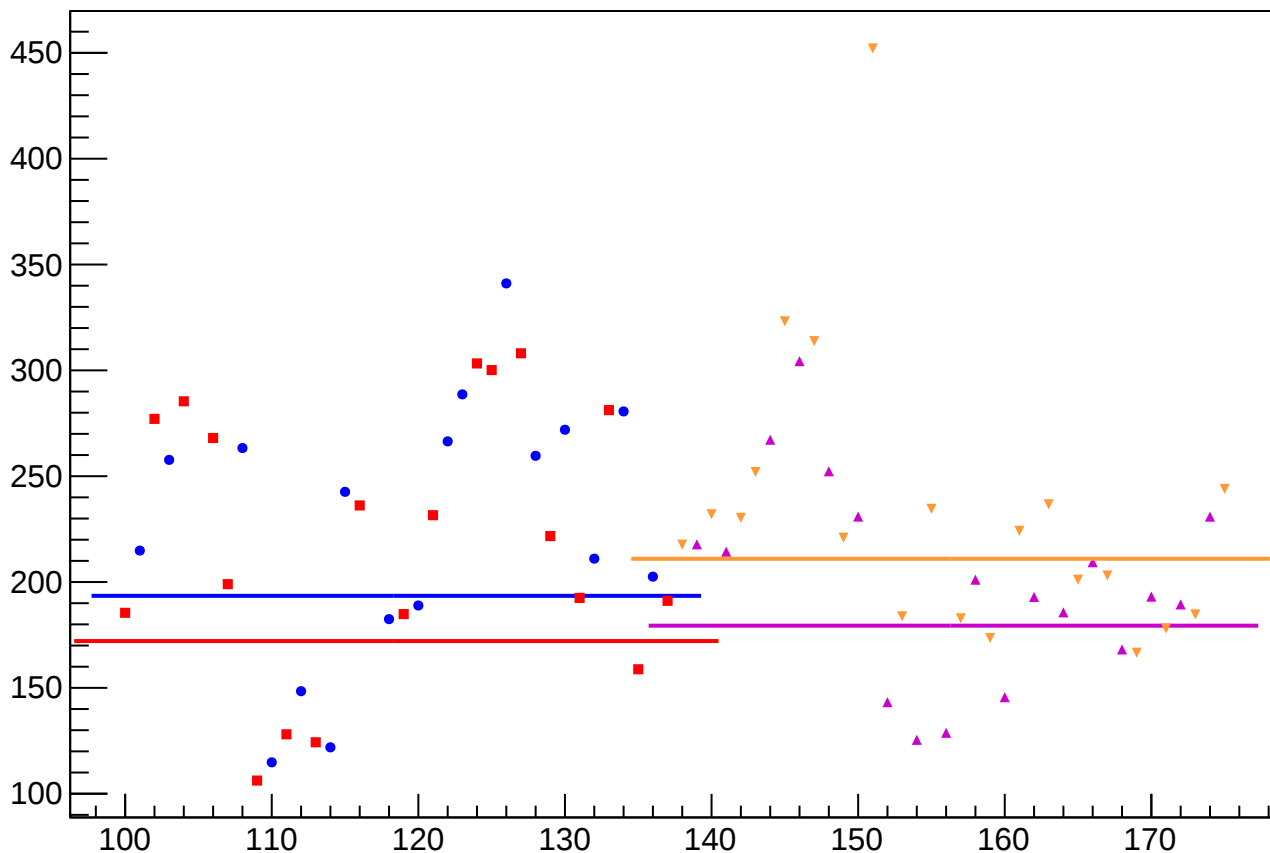
Right: 29.490+/-52.426 χ^2/NDF : 15.4/35

In: 42.673+/-42.673 χ^2/NDF : 13.9/34

Out: -1.588+/-43.913 χ^2/NDF : 12.2/38

All: 21.177+/-30.603 χ^2/NDF : 26.6/73

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.488 $\pm$ 0.056 χ^2 /NDF: 1017195.7/16

Left Out: 210.997 $\pm$ 0.040 χ^2 /NDF:1245063.3/19

Right Out: 172.122 $\pm$ 0.050 χ^2 /NDF: 1579840.2/18

Left In: 179.387 $\pm$ 0.036 χ^2 /NDF:1563030.5/17

Left: 193.528 $\pm$ 0.027 χ^2 /NDF: 3155852.6/37

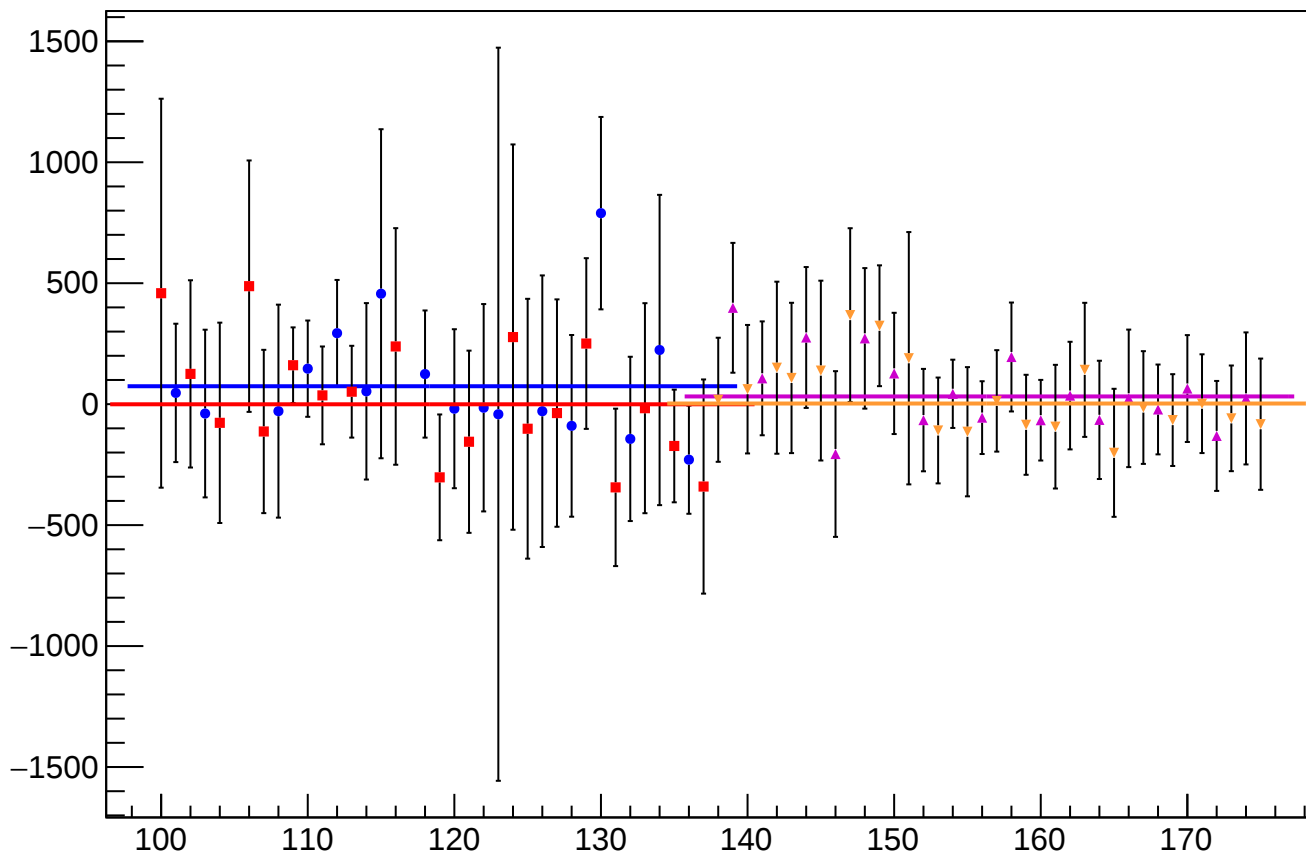
Right: 181.527 $\pm$ 0.037 χ^2 /NDF: 2678891.2/35

In: 183.500 $\pm$ 0.030 χ^2 /NDF:2625340.1/34

Out: 195.728 $\pm$ 0.031 χ^2 /NDF:3198725.5/38

All: 189.439 $\pm$ 0.022 χ^2 /NDF: 5903832.6/73

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 74.098 $\pm$ 79.404 χ^2 /NDF: 7.6/16

Left Out: 2.645 $\pm$ 56.726 χ^2 /NDF:5.2/19

Right Out: -0.503 $\pm$ 70.437 χ^2 /NDF: 7.3/18

Left In: 31.927 $\pm$ 51.023 χ^2 /NDF:6.2/17

Left: 18.832 $\pm$ 37.935 χ^2 /NDF: 11.6/37

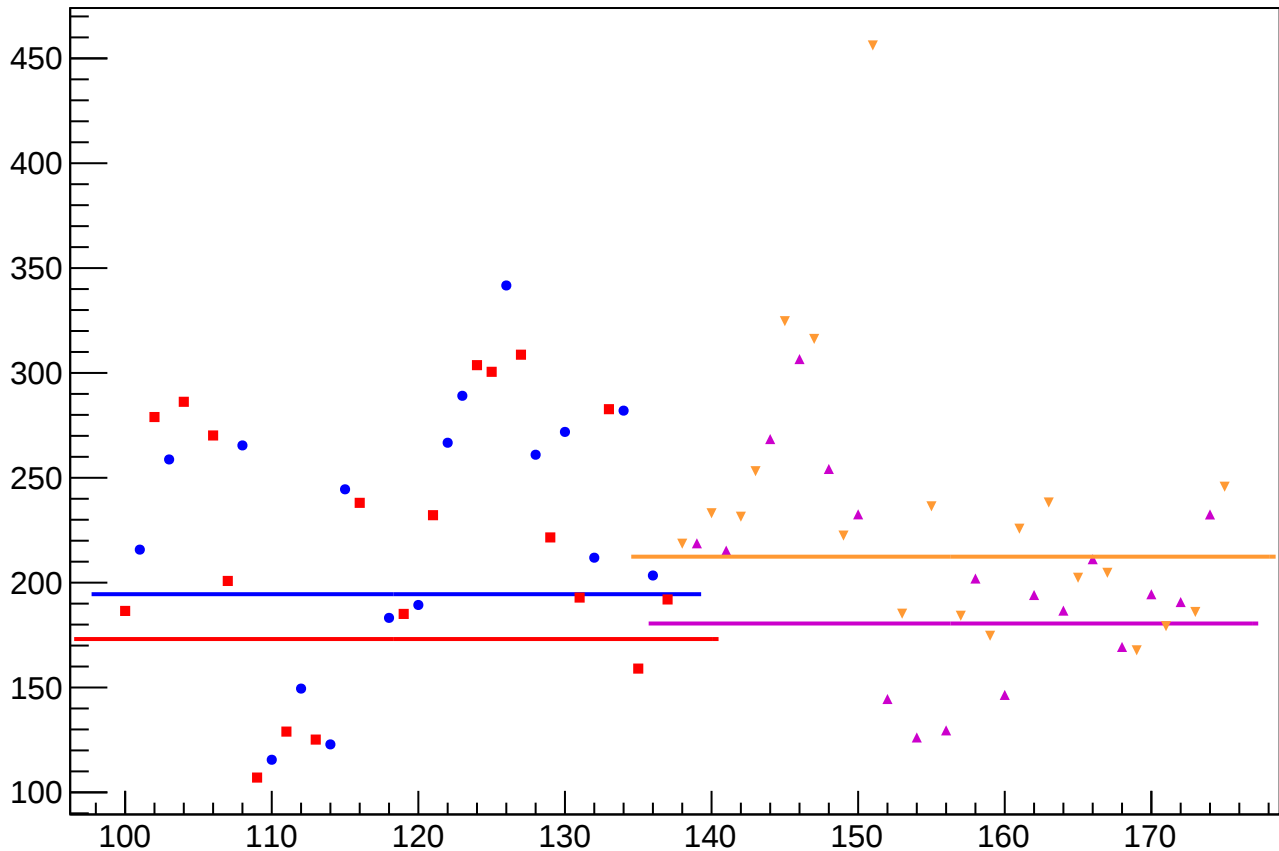
Right: 32.349 $\pm$ 52.693 χ^2 /NDF: 15.4/35

In: 44.251 $\pm$ 42.925 χ^2 /NDF:13.9/34

Out: 1.407 $\pm$ 44.180 χ^2 /NDF:12.5/38

All: 23.446 $\pm$ 30.787 χ^2 /NDF: 27.0/73

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.496 $\pm$ 0.056 χ^2 /NDF: 1008514.7/16

Left Out: 212.390 $\pm$ 0.040 χ^2 /NDF:1243948.2/19

Right Out: 173.111 $\pm$ 0.050 χ^2 /NDF: 1567374.3/18

Left In: 180.518 $\pm$ 0.036 χ^2 /NDF:1562315.9/17

Left: 194.772 $\pm$ 0.027 χ^2 /NDF: 3155260.1/37

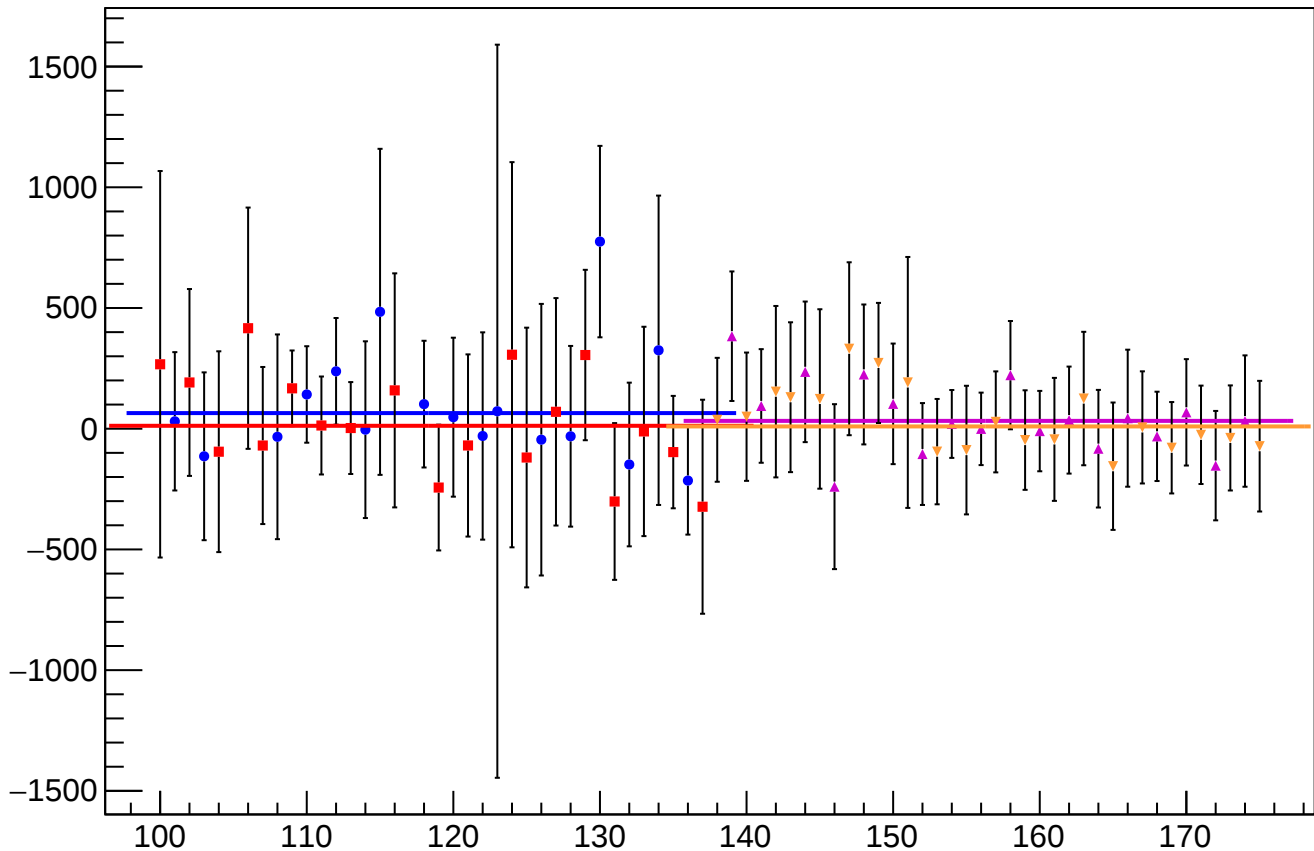
Right: 182.529 $\pm$ 0.037 χ^2 /NDF: 2657073.5/35

In: 184.603 $\pm$ 0.030 χ^2 /NDF:2614697.3/34

Out: 196.937 $\pm$ 0.031 χ^2 /NDF:3188571.3/38

All: 190.592 $\pm$ 0.022 χ^2 /NDF: 5883446.8/73

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 64.733+/-79.399 χ^2/NDF : 7.0/16

Left Out: 9.441+/-56.592 χ^2/NDF : 3.9/19

Right Out: 12.094+/-70.361 χ^2/NDF : 5.8/18

Left In: 32.492+/-50.889 χ^2/NDF : 5.7/17

Left: 22.186+/-37.840 χ^2/NDF : 9.7/37

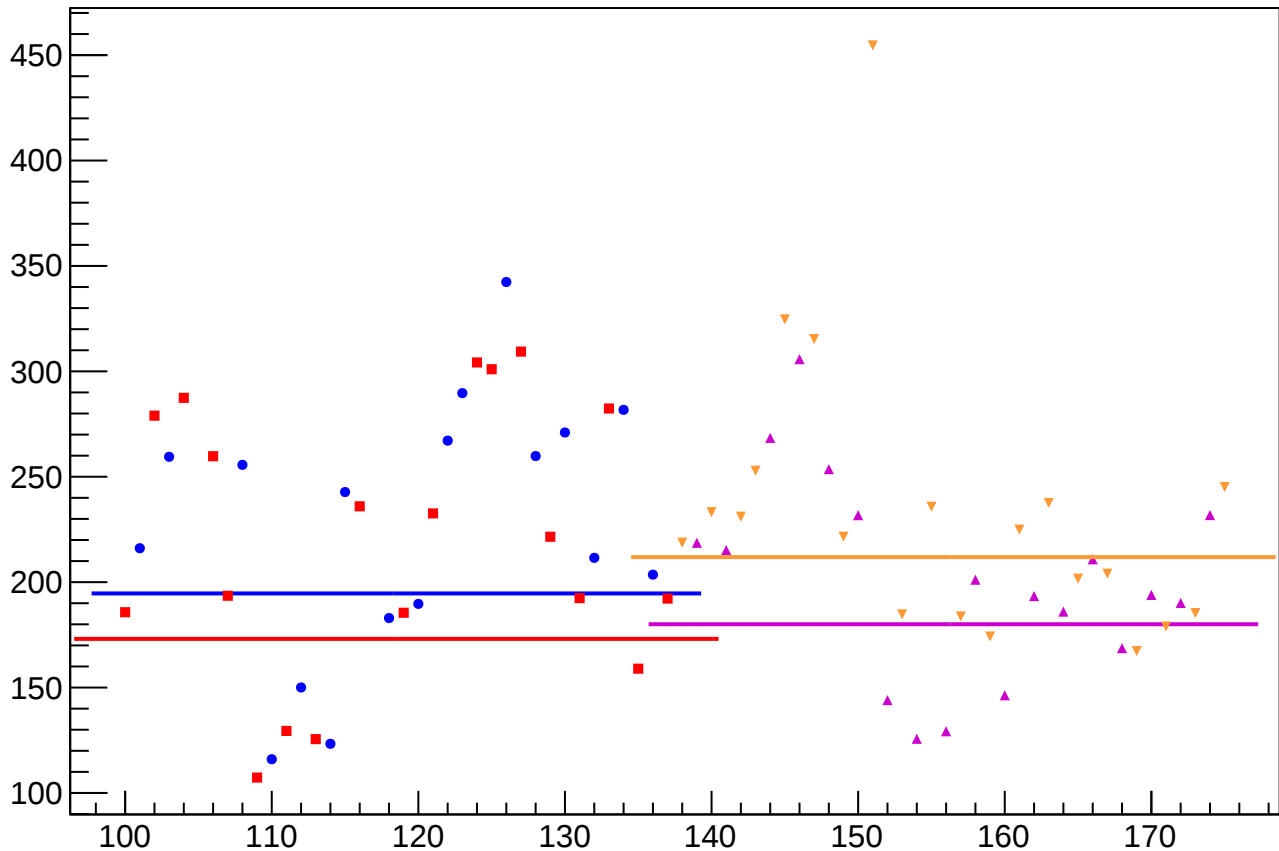
Right: 35.248+/-52.659 χ^2/NDF : 13.1/35

In: 41.880+/-42.844 χ^2/NDF : 12.9/34

Out: 10.483+/-44.098 χ^2/NDF : 9.7/38

All: 26.634+/-30.729 χ^2/NDF : 22.9/73

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.652 $\pm$ 0.056 χ^2 /NDF: 986798.9/16

Left Out: 211.881 $\pm$ 0.040 χ^2 /NDF:1246109.6/19

Right Out: 173.089 $\pm$ 0.050 χ^2 /NDF: 1544540.9/18

Left In: 180.035 $\pm$ 0.036 χ^2 /NDF:1565721.1/17

Left: 194.273 $\pm$ 0.027 χ^2 /NDF: 3161994.9/37

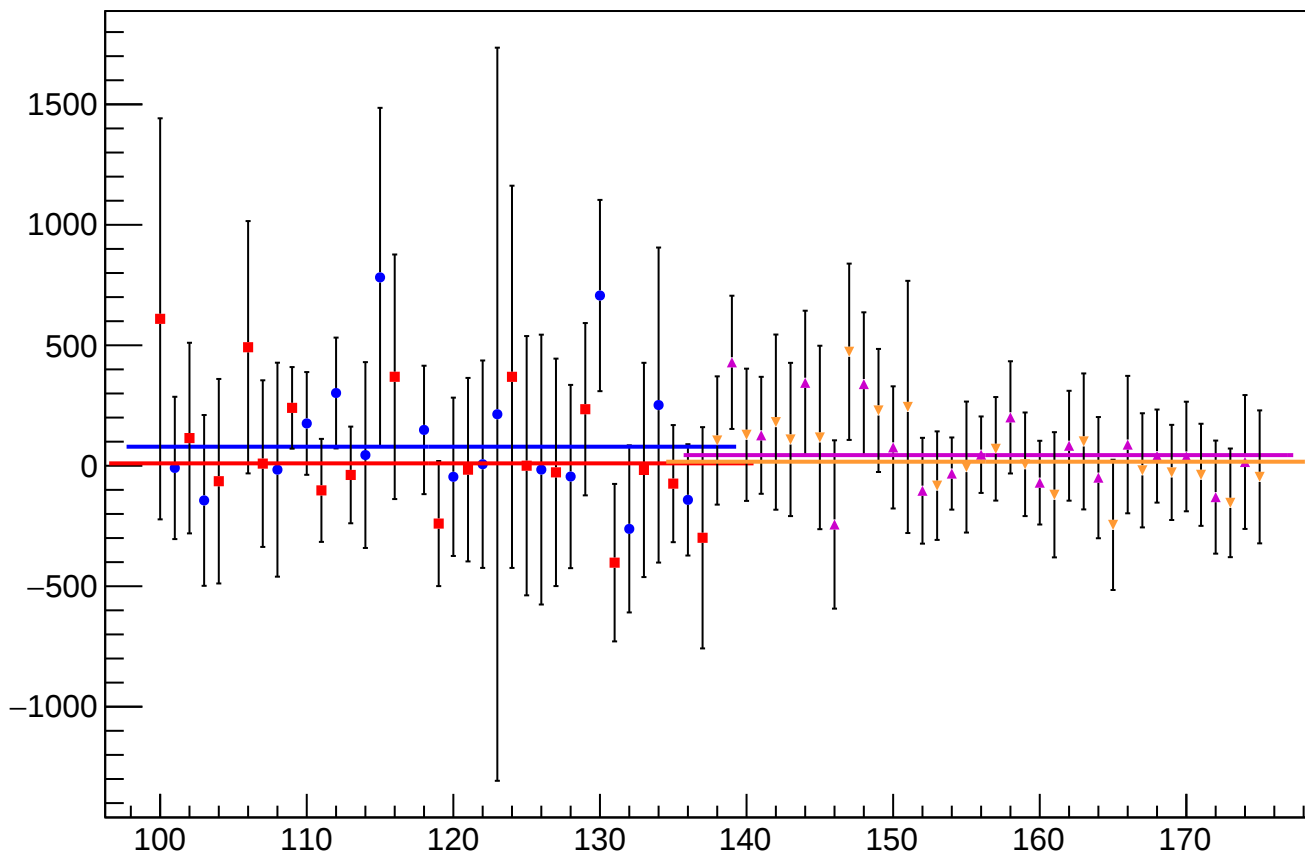
Right: 182.574 $\pm$ 0.037 χ^2 /NDF: 2613964.4/35

In: 184.291 $\pm$ 0.030 χ^2 /NDF:2600564.7/34

Out: 196.643 $\pm$ 0.031 χ^2 /NDF:3159776.8/38

All: 190.289 $\pm$ 0.022 χ^2 /NDF: 5841059.0/73

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 79.128 $\pm$ 81.874 χ^2 /NDF: 7.5/16

Left Out: 16.866 $\pm$ 58.287 χ^2 /NDF: 5.4/19

Right Out: 9.982 $\pm$ 73.310 χ^2 /NDF: 7.9/18

Left In: 44.208 $\pm$ 52.891 χ^2 /NDF: 7.1/17

Left: 31.860 $\pm$ 39.169 χ^2 /NDF: 12.6/37

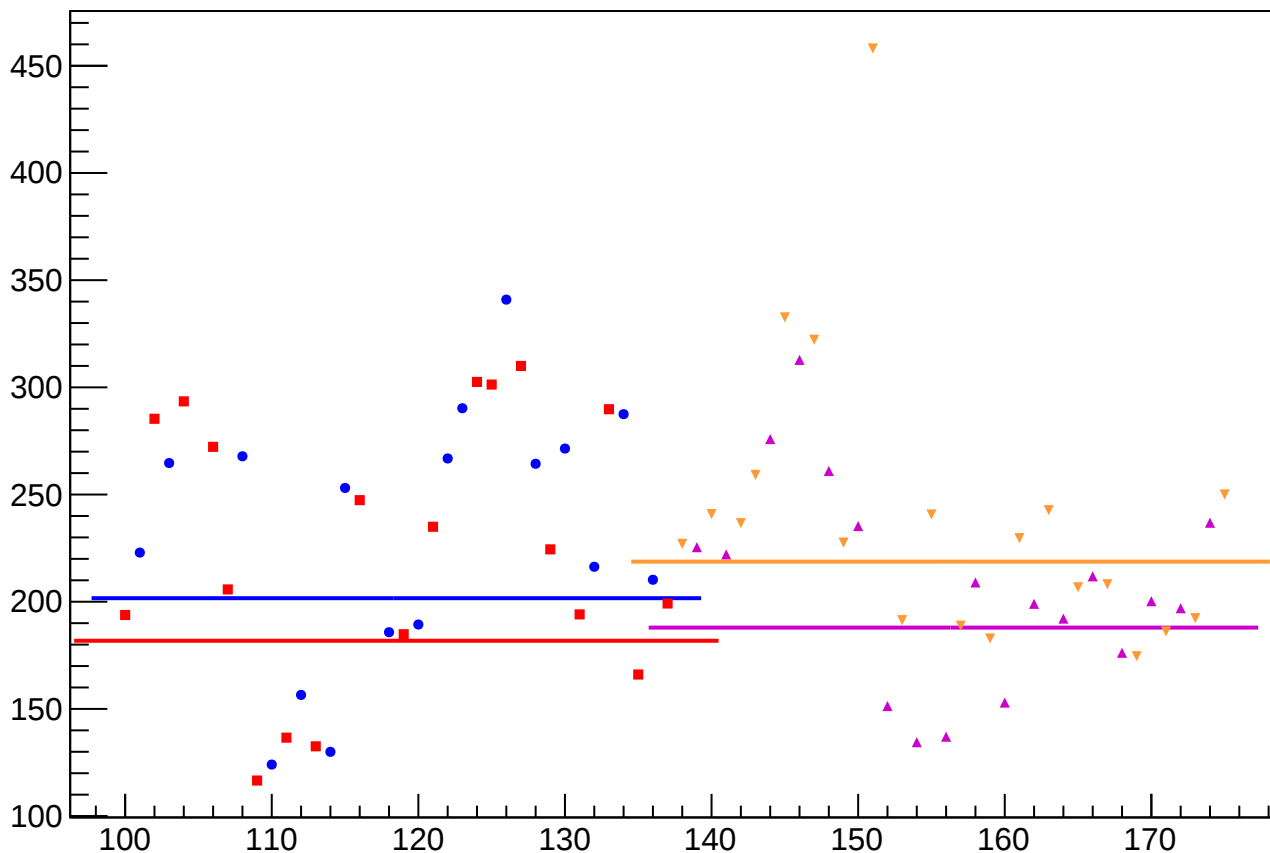
Right: 40.751 $\pm$ 54.616 χ^2 /NDF: 15.8/35

In: 54.490 $\pm$ 44.427 χ^2 /NDF: 14.7/34

Out: 14.200 $\pm$ 45.624 χ^2 /NDF: 13.3/38

All: 34.880 $\pm$ 31.829 χ^2 /NDF: 28.4/73

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.654 $\pm$ 0.058 χ^2 /NDF: 883179.7/16

Left Out: 218.710 $\pm$ 0.041 χ^2 /NDF:1175142.8/19

Right Out: 181.797 $\pm$ 0.052 χ^2 /NDF: 1377449.9/18

Left In: 187.932 $\pm$ 0.037 χ^2 /NDF:1406127.7/17

Left: 201.831 $\pm$ 0.028 χ^2 /NDF: 2887099.2/37

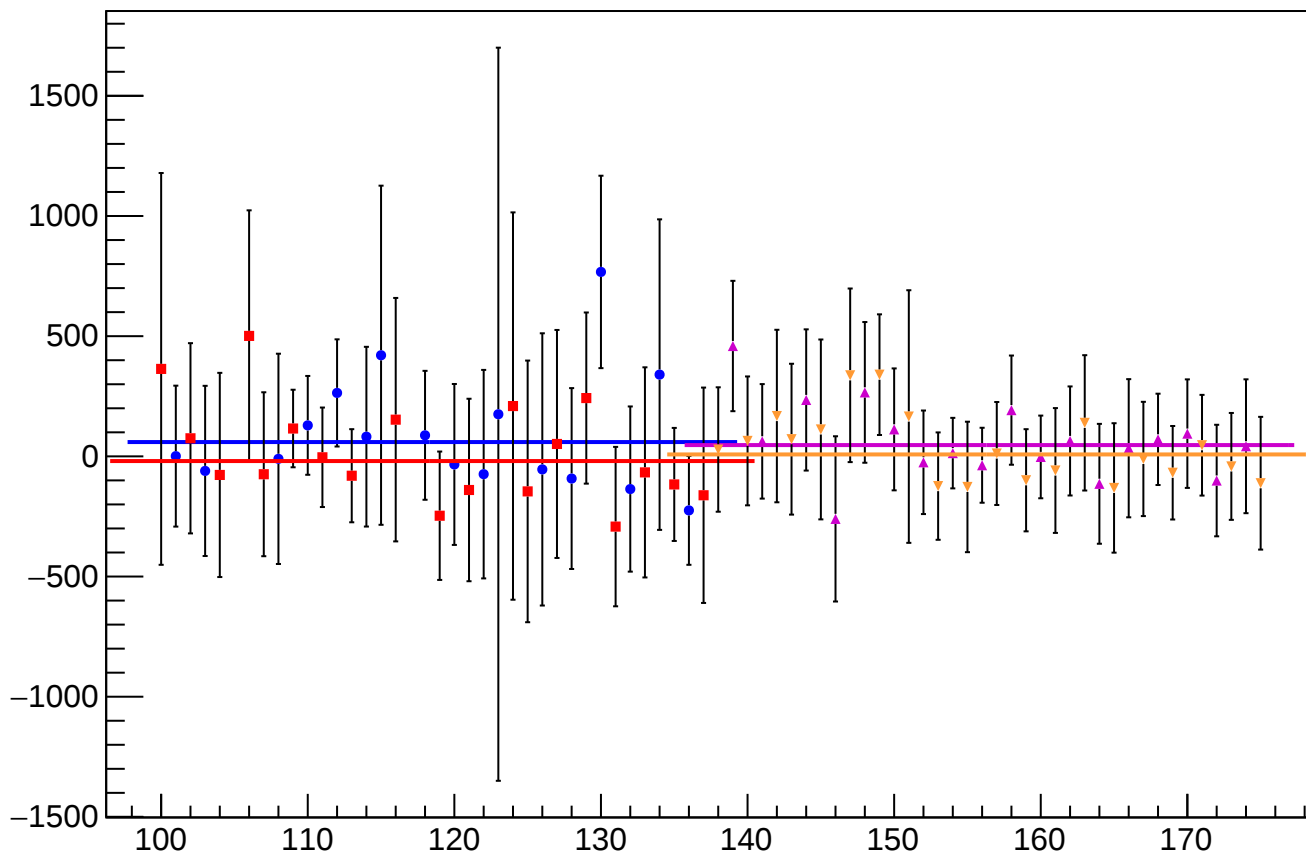
Right: 190.633 $\pm$ 0.039 χ^2 /NDF: 2325921.8/35

In: 191.973 $\pm$ 0.031 χ^2 /NDF:2328943.9/34

Out: 204.414 $\pm$ 0.032 χ^2 /NDF:2863262.5/38

All: 198.028 $\pm$ 0.023 χ^2 /NDF: 5268539.9/73

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.496 $\pm$ 80.808 χ^2 /NDF: 7.0/16

Left Out: 8.016 $\pm$ 57.725 χ^2 /NDF:4.9/19

Right Out: -19.541 $\pm$ 71.866 χ^2 /NDF: 4.7/18

Left In: 46.936 $\pm$ 52.184 χ^2 /NDF:6.0/17

Left: 29.432 $\pm$ 38.711 χ^2 /NDF: 11.1/37

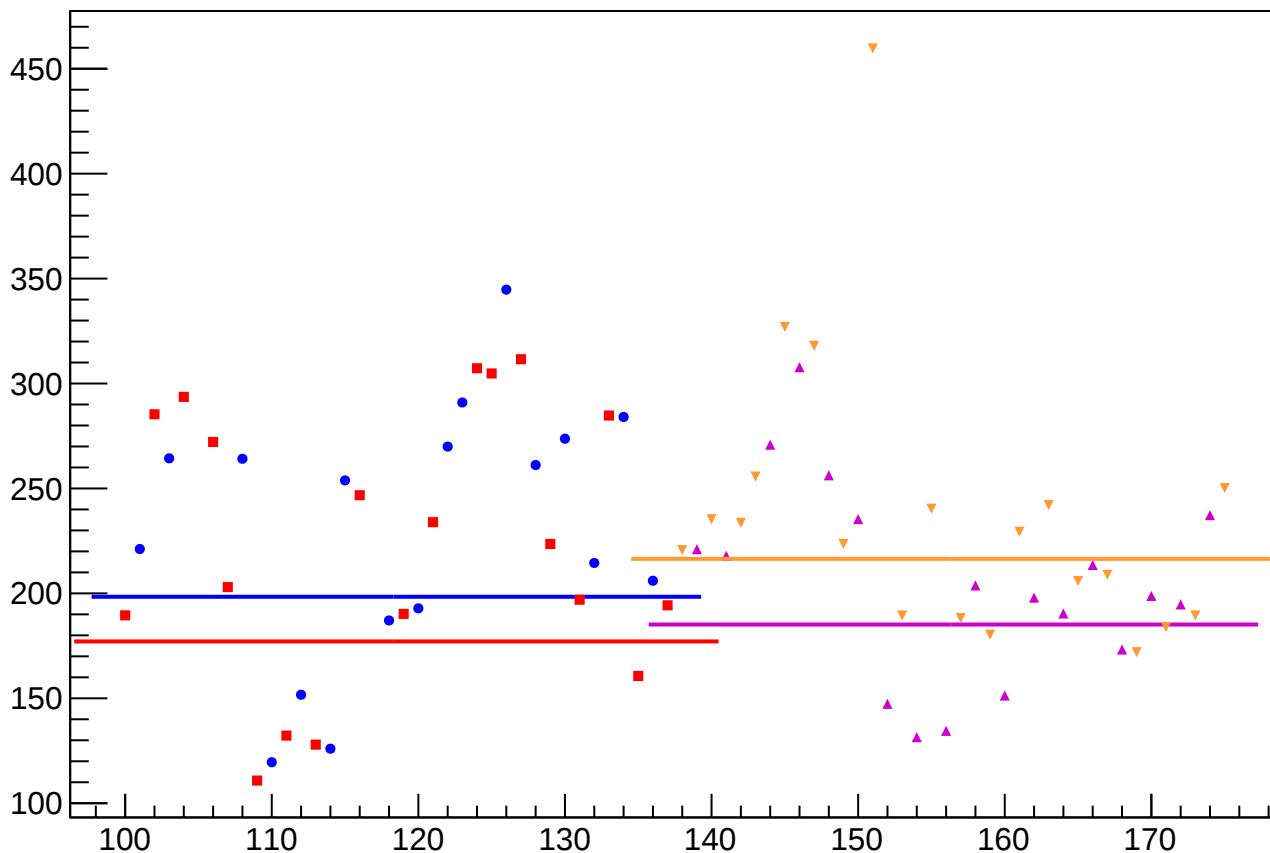
Right: 15.364 $\pm$ 53.701 χ^2 /NDF: 12.3/35

In: 50.632 $\pm$ 43.838 χ^2 /NDF:13.0/34

Out: -2.791 $\pm$ 45.004 χ^2 /NDF:9.7/38

All: 24.622 $\pm$ 31.402 χ^2 /NDF: 23.4/73

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.378+/-0.057 χ^2/NDF : 963672.6/16

Left Out: 216.455+/-0.041 χ^2/NDF :1184295.9/19

Right Out: 177.096+/-0.051 χ^2/NDF : 1524763.6/18

Left In: 185.155+/-0.037 χ^2/NDF :1440418.0/17

Left: 199.231+/-0.027 χ^2/NDF : 2948292.6/37

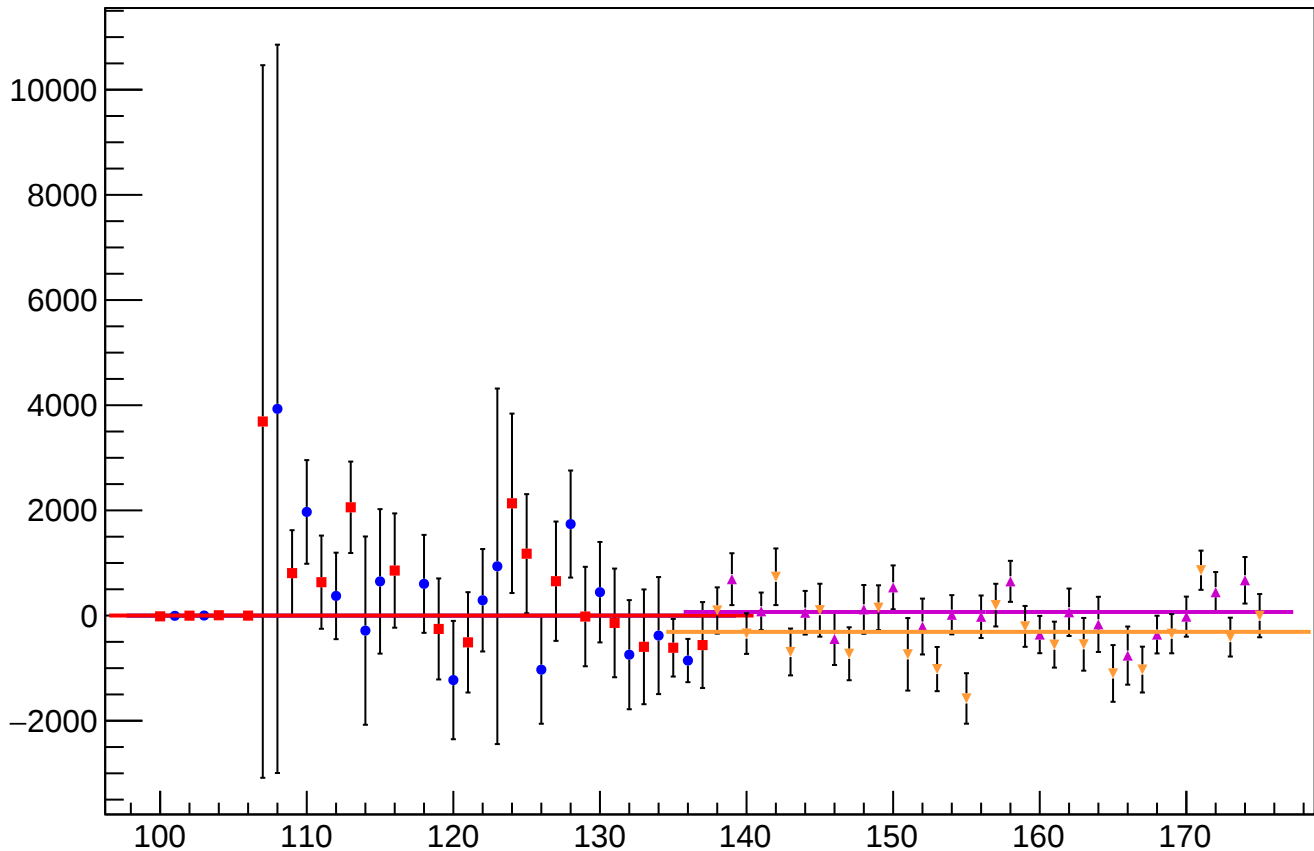
Right: 186.495+/-0.038 χ^2/NDF : 2565896.1/35

In: 189.047+/-0.031 χ^2/NDF :2441883.8/34

Out: 201.020+/-0.032 χ^2/NDF :3073696.2/38

All: 194.876+/-0.022 χ^2/NDF : 5588220.1/73

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.0/16

Left Out: -309.485 ± 97.998 χ^2/NDF : 35.6/19

Right Out: 0.727 ± 2.111 χ^2/NDF : 19.3/18

Left In: 68.155 ± 98.991 χ^2/NDF : 14.7/17

Left: -122.569 ± 69.643 χ^2/NDF : 57.7/37

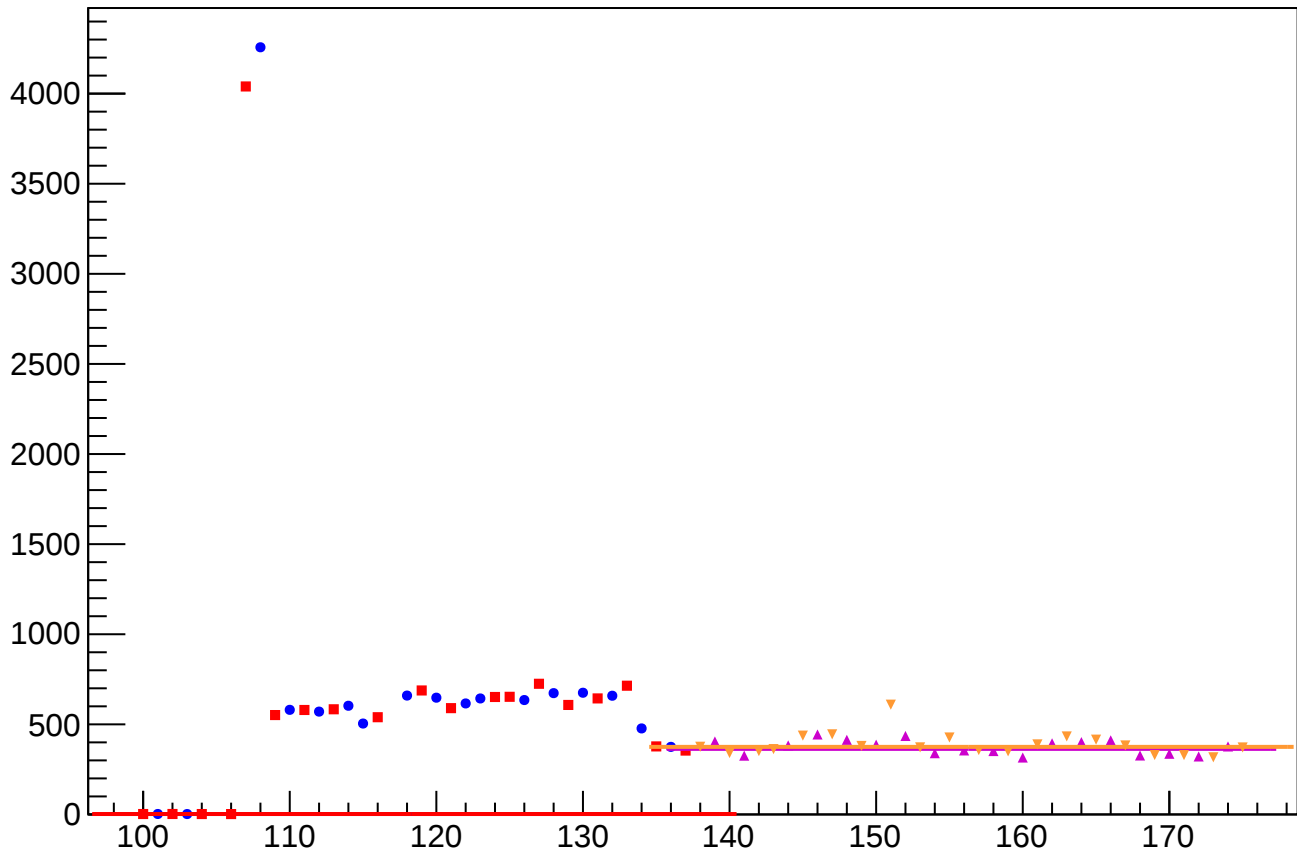
Right: -0.329 ± 1.540 χ^2/NDF : 36.8/35

In: -1.493 ± 2.251 χ^2/NDF : 32.2/34

Out: 0.583 ± 2.111 χ^2/NDF : 65.0/38

All: -0.389 ± 1.540 χ^2/NDF : 97.6/73

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10847802.4/16

Left Out: 375.016+/-0.069 χ^2/NDF : 505319.2/19

Right Out: 2.437+/-0.001 χ^2/NDF : 11147393.9/18

Left In: 363.933+/-0.070 χ^2/NDF : 297793.9/17

Left: 369.531+/-0.049 χ^2/NDF : 815774.8/37

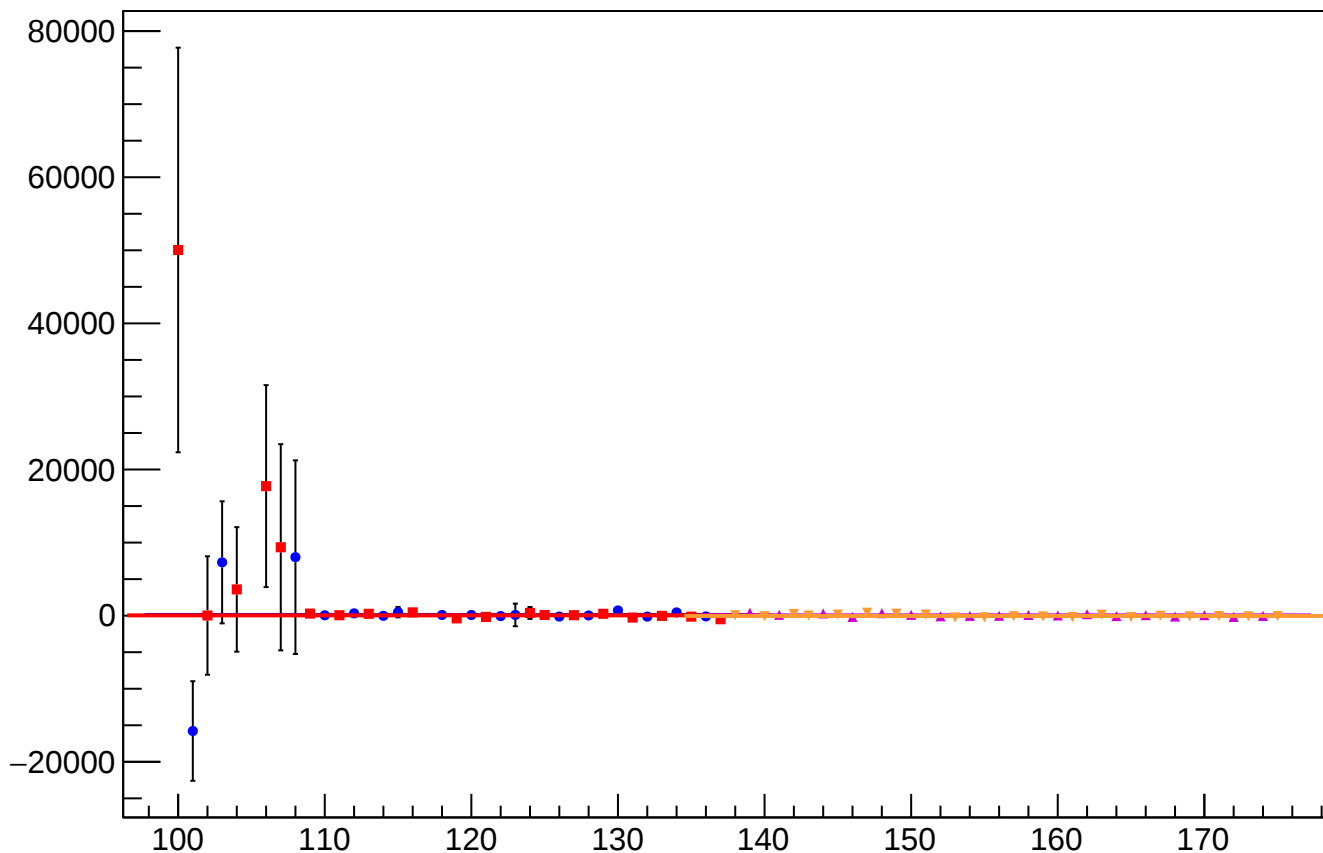
Right: 2.446+/-0.001 χ^2/NDF : 21995279.7/35

In: 2.644+/-0.002 χ^2/NDF : 37800261.2/34

Out: 2.610+/-0.001 χ^2/NDF : 40548400.7/38

All: 2.625+/-0.001 χ^2/NDF : 78348904.5/73

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 98.643+/-90.860 χ^2/NDF : 11.9/16

Left Out: -41.031+/-60.112 χ^2/NDF : 6.2/19

Right Out: 42.302+/-84.496 χ^2/NDF : 13.9/18

Left In: 41.958+/-55.225 χ^2/NDF : 6.8/17

Left: 3.974+/-40.668 χ^2/NDF : 14.0/37

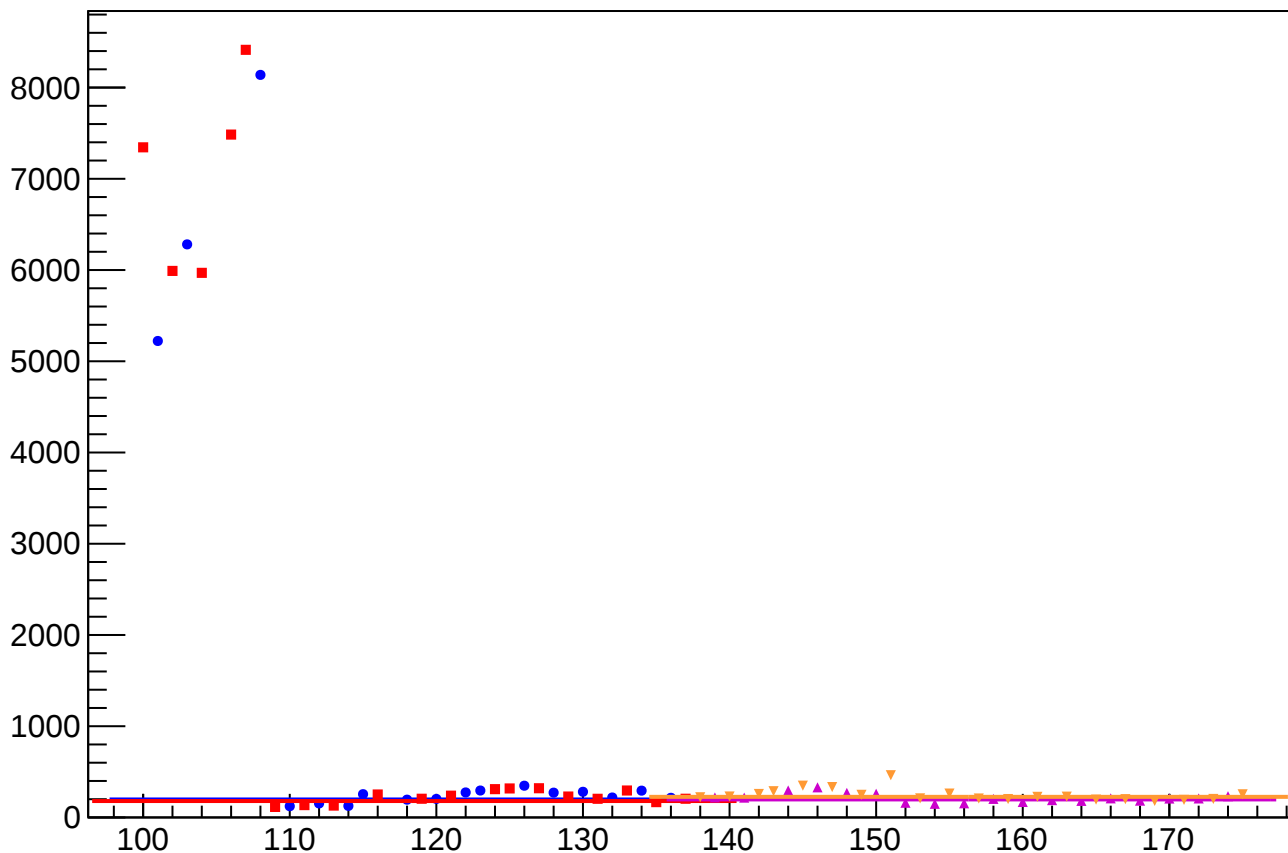
Right: 68.431+/-61.875 χ^2/NDF : 26.0/35

In: 57.250+/-47.192 χ^2/NDF : 19.0/34

Out: -13.027+/-48.982 χ^2/NDF : 20.7/38

All: 23.419+/-33.985 χ^2/NDF : 40.7/73

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.086+/-0.064 χ^2/NDF : 3693614.0/16

Left Out: 225.888+/-0.043 χ^2/NDF :1146967.6/19

Right Out: 179.949+/-0.060 χ^2/NDF : 4321173.8/18

Left In: 197.536+/-0.039 χ^2/NDF :1114281.9/17

Left: 210.513+/-0.029 χ^2/NDF : 2502517.9/37

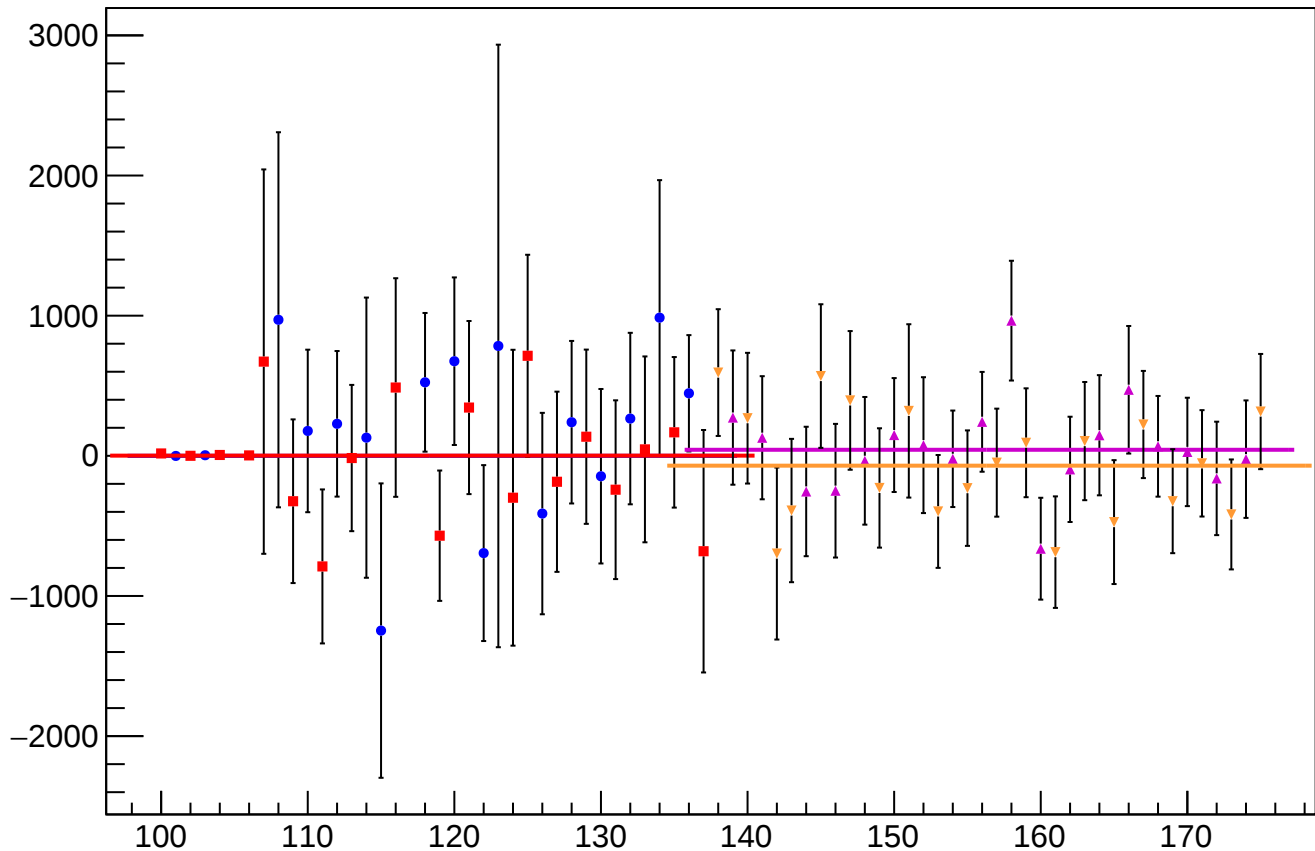
Right: 187.896+/-0.044 χ^2/NDF : 8052936.0/35

In: 197.415+/-0.033 χ^2/NDF :4807931.8/34

Out: 210.451+/-0.035 χ^2/NDF :5860653.6/38

All: 203.690+/-0.024 χ^2/NDF : 10742051.3/73

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.138 ± 1.737 χ^2/NDF : 9.7/16

Left Out: -70.232 ± 96.255 χ^2/NDF : 14.2/19

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.6/18

Left In: 43.094 ± 96.800 χ^2/NDF : 11.3/17

Left: -13.889 ± 68.254 χ^2/NDF : 26.2/37

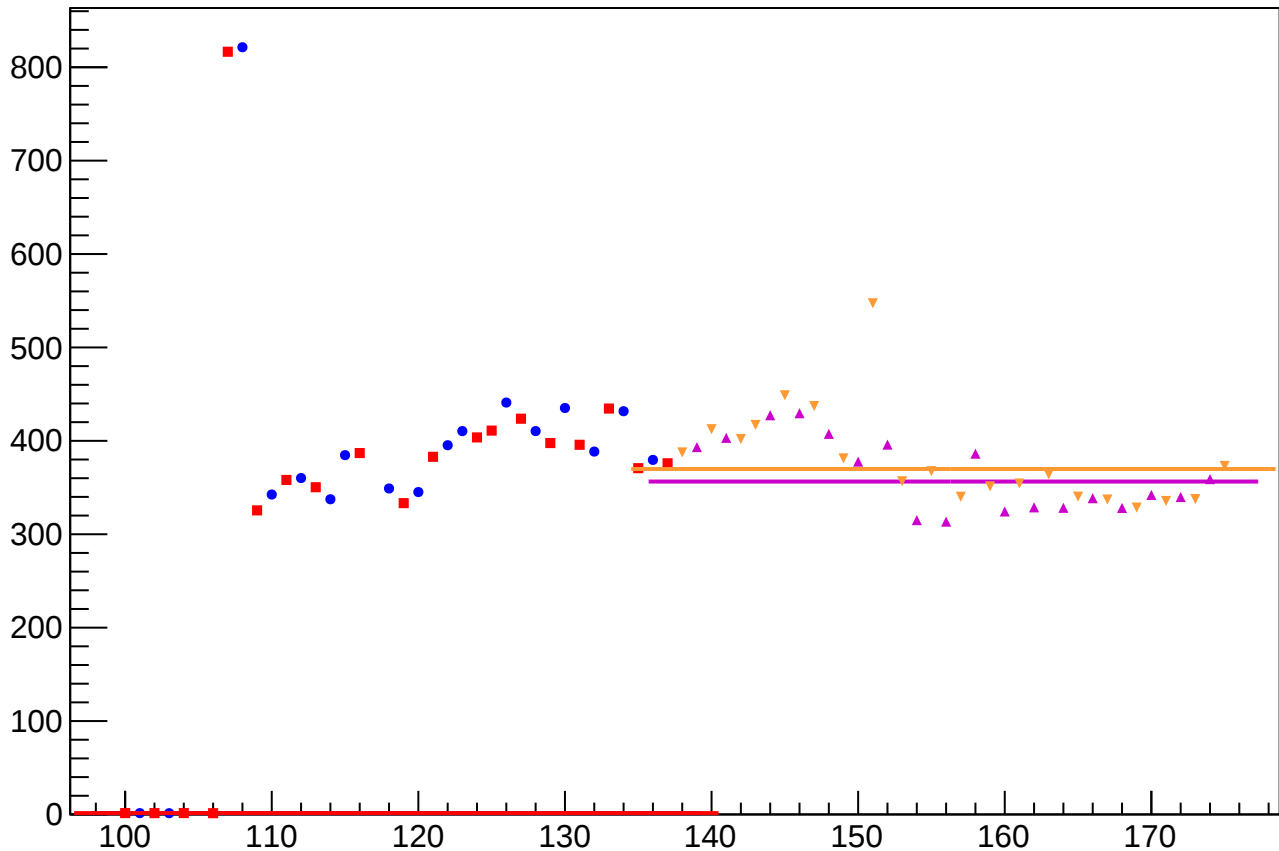
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.124 ± 1.736 χ^2/NDF : 21.2/34

Out: 1.303 ± 1.622 χ^2/NDF : 24.4/38

All: 0.638 ± 1.185 χ^2/NDF : 46.0/73

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10957986.8/16

Left Out: 369.855+/-0.068 χ^2/NDF : 393234.6/19

Right Out: 1.451+/-0.001 χ^2/NDF : 10880737.7/18

Left In: 356.426+/-0.068 χ^2/NDF : 297040.9/17

Left: 363.178+/-0.048 χ^2/NDF : 709631.2/37

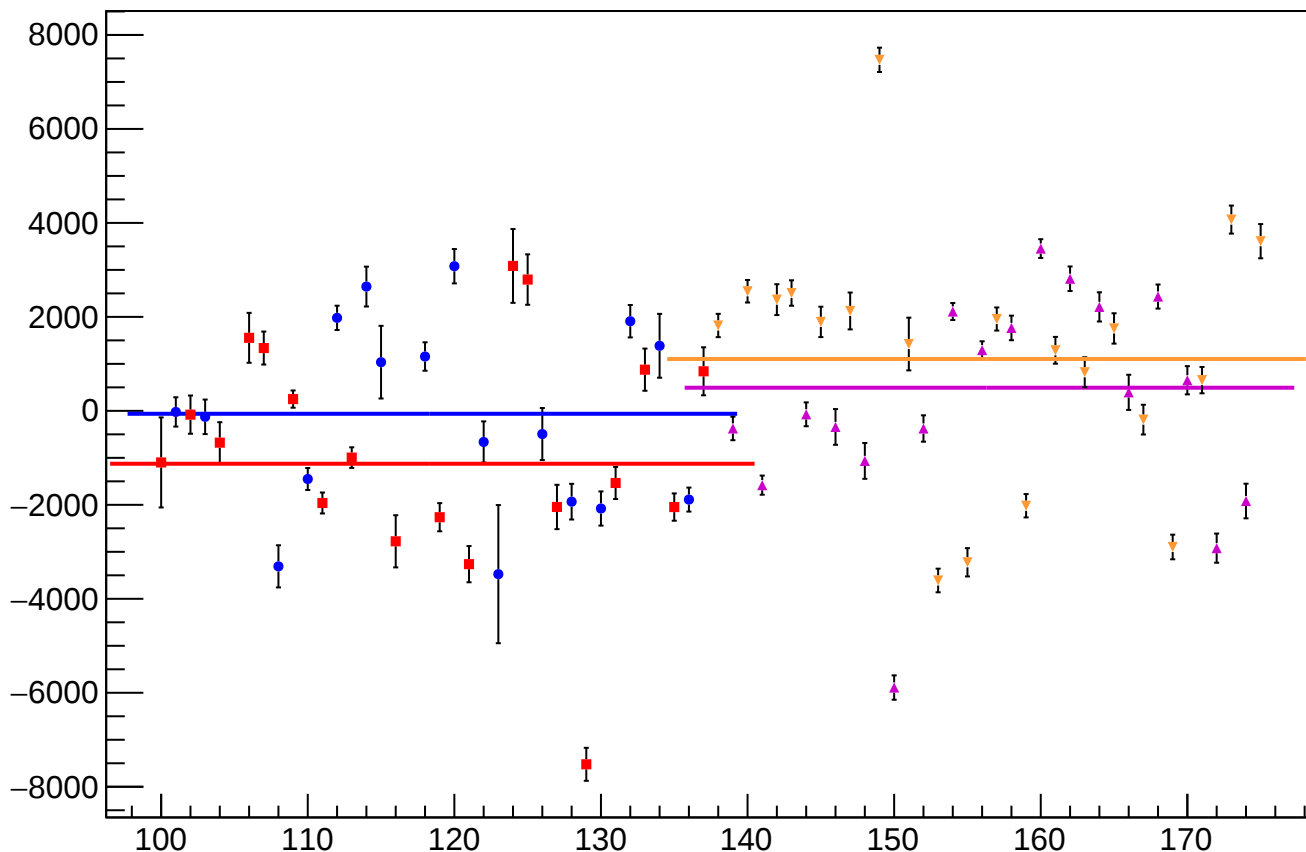
Right: 1.452+/-0.001 χ^2/NDF : 21838725.6/35

In: 1.567+/-0.001 χ^2/NDF : 38141436.7/34

Out: 1.556+/-0.001 χ^2/NDF : 40563115.1/38

All: 1.561+/-0.001 χ^2/NDF : 78704597.3/73

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -62.164 $\pm$ 87.424 χ^2/NDF : 433.9/16

Left Out: 1104.282 $\pm$ 64.797 χ^2/NDF :1837.0/19

Right Out: -1125.437 $\pm$ 78.370 χ^2/NDF : 671.2/18

Left In: 492.278 $\pm$ 60.634 χ^2/NDF :1430.7/17

Left: 777.989 $\pm$ 44.273 χ^2/NDF : 3315.2/37

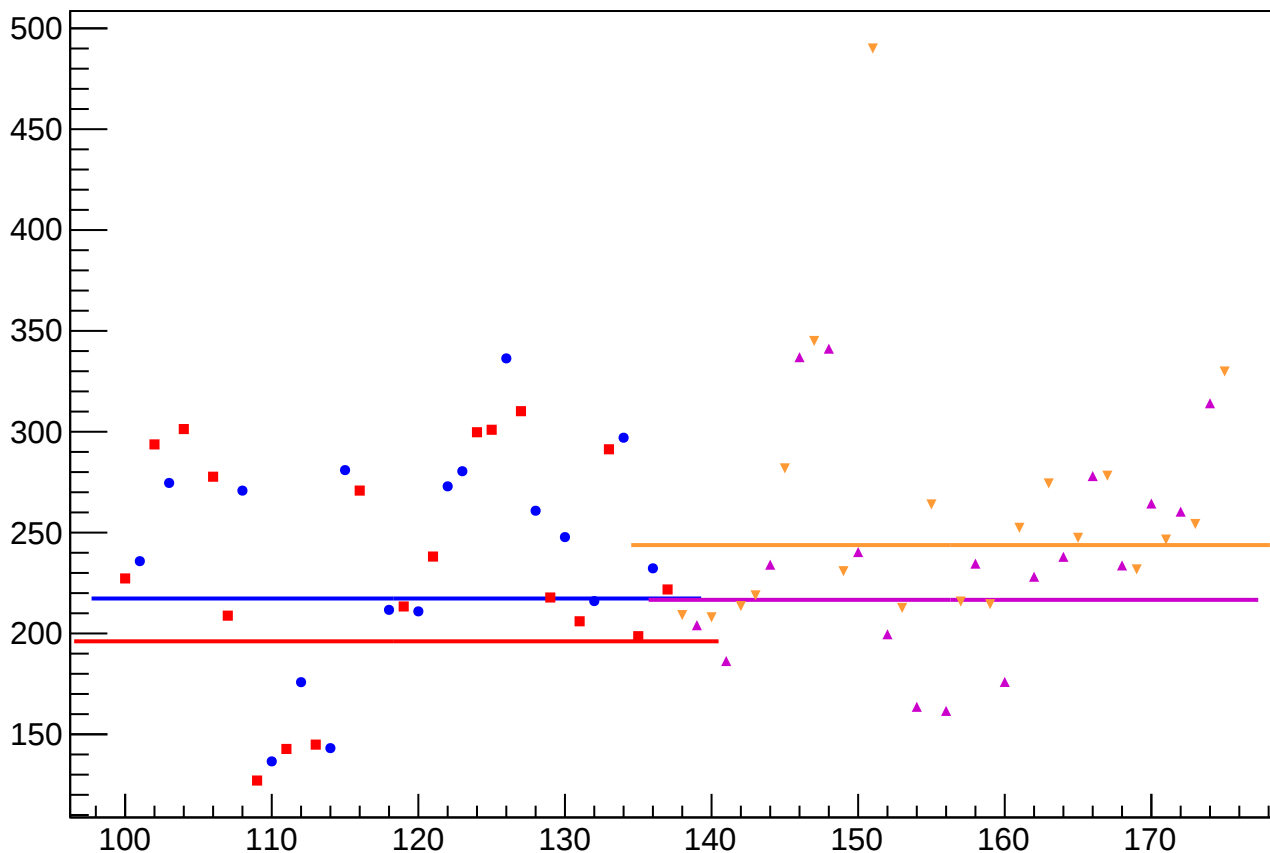
Right: -651.694 $\pm$ 58.355 χ^2/NDF : 1187.1/35

In: 312.198 $\pm$ 49.824 χ^2/NDF :1891.7/34

Out: 198.918 $\pm$ 49.938 χ^2/NDF :2989.0/38

All: 255.688 $\pm$ 35.271 χ^2/NDF : 4883.3/73

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.330 $\pm$ 0.062 χ^2 /NDF: 652722.5/16

Left Out: 243.820 $\pm$ 0.046 χ^2 /NDF:924732.2/19

Right Out: 196.105 $\pm$ 0.055 χ^2 /NDF: 1190733.6/18

Left In: 216.666 $\pm$ 0.043 χ^2 /NDF:1240110.3/17

Left: 229.343 $\pm$ 0.031 χ^2 /NDF: 2352104.3/37

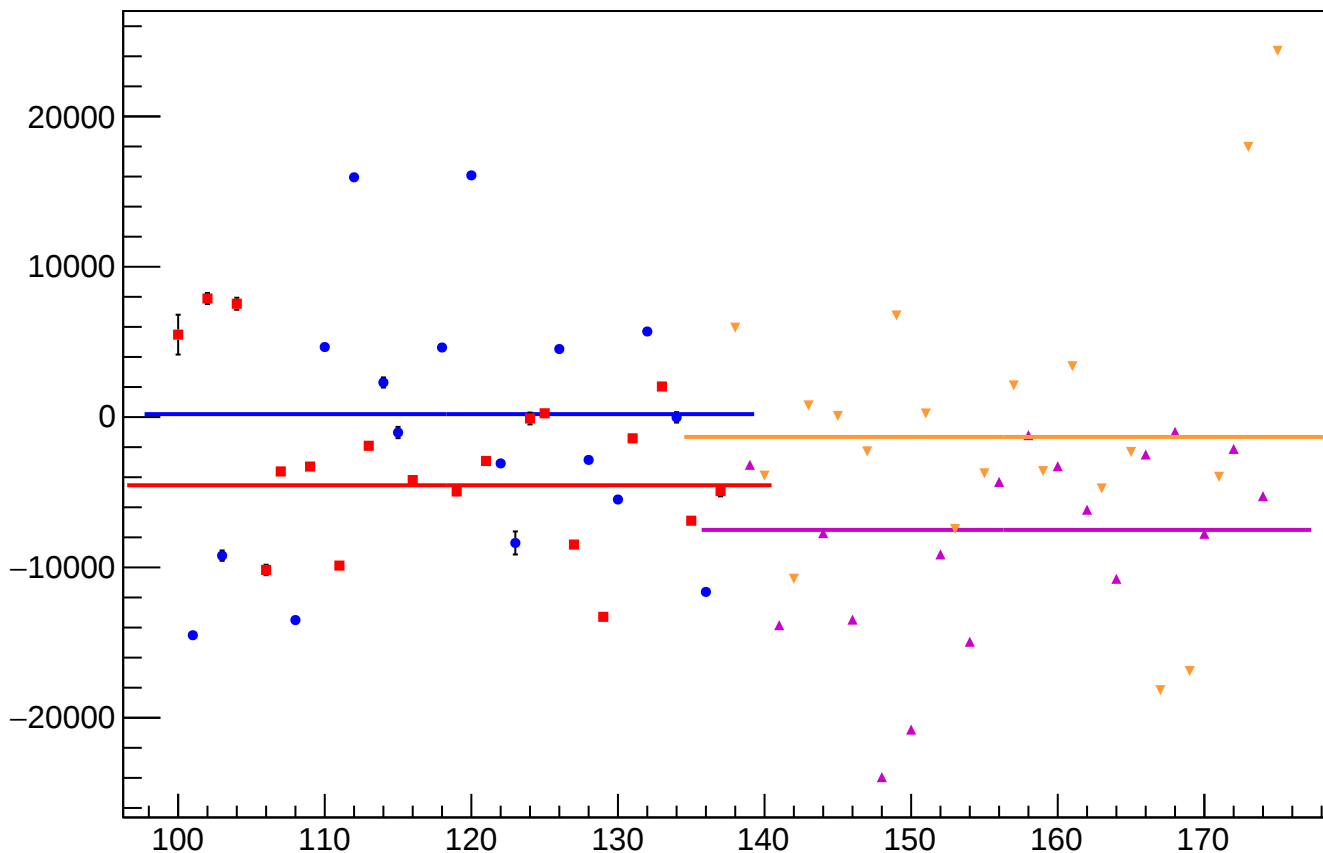
Right: 205.562 $\pm$ 0.041 χ^2 /NDF: 1908816.5/35

In: 216.882 $\pm$ 0.035 χ^2 /NDF:1892910.8/34

Out: 224.446 $\pm$ 0.035 χ^2 /NDF:2555816.6/38

All: 220.655 $\pm$ 0.025 χ^2 /NDF: 4471724.3/73

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1321.016 ± 44.909 $\chi^2/\text{NDF}: 45094.8/19$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7503.576 ± 47.096 $\chi^2/\text{NDF}: 17289.1/17$

Left: -4265.431 ± 32.501 $\chi^2/\text{NDF}: 71410.1/37$

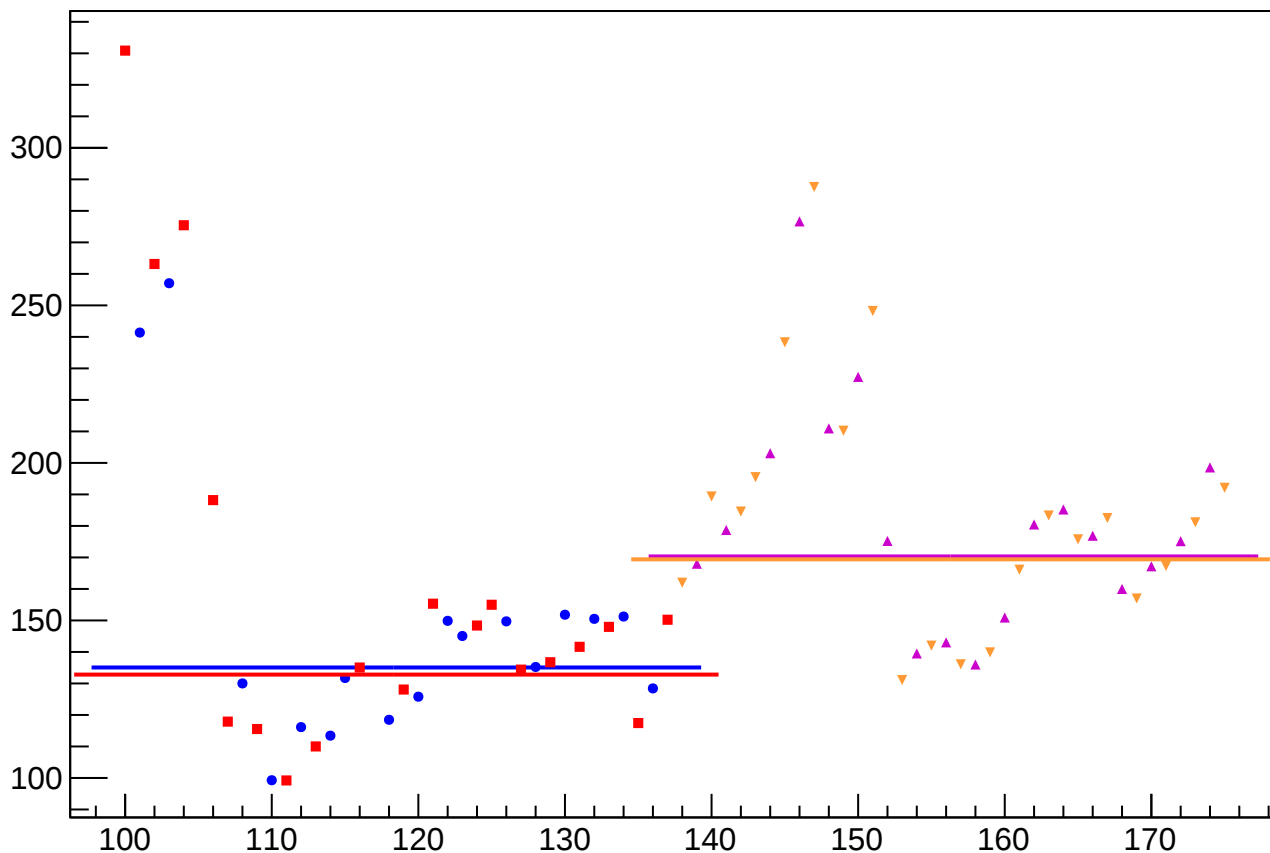
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4232.107 ± 35.717 $\chi^2/\text{NDF}: 59305.5/34$

Out: -2679.863 ± 34.116 $\chi^2/\text{NDF}: 54737.0/38$

All: -3420.414 ± 24.670 $\chi^2/\text{NDF}: 115030.0/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 169.400 $\pm$ 0.032 χ^2 /NDF:1052531.6/19

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 170.315 $\pm$ 0.033 χ^2 /NDF:769336.1/17

Left: 169.836 $\pm$ 0.023 χ^2 /NDF: 1822263.3/37

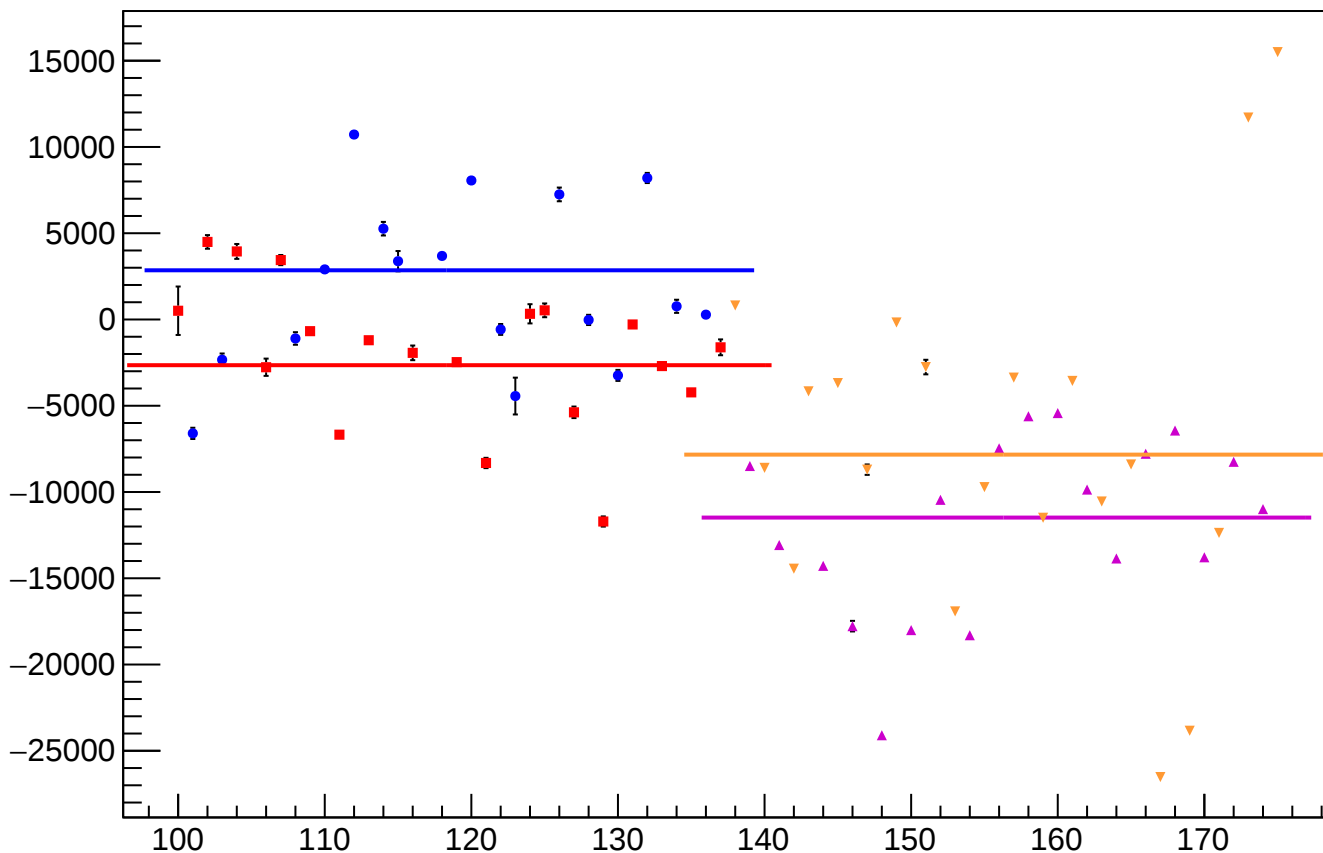
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 155.343 $\pm$ 0.025 χ^2 /NDF:1903855.6/34

Out: 153.929 $\pm$ 0.024 χ^2 /NDF:2444997.8/38

All: 154.603 $\pm$ 0.017 χ^2 /NDF: 4350491.9/73

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437+/-70.753 χ^2/NDF : 4178.1/16

Left Out: -7833.022+/-50.761 χ^2/NDF :38131.8/19

Right Out: -2649.142+/-65.731 χ^2/NDF : 3175.7/18

Left In: -11482.198+/-48.179 χ^2/NDF :10807.9/17

Left: -9752.782+/-34.945 χ^2/NDF : 51658.6/37

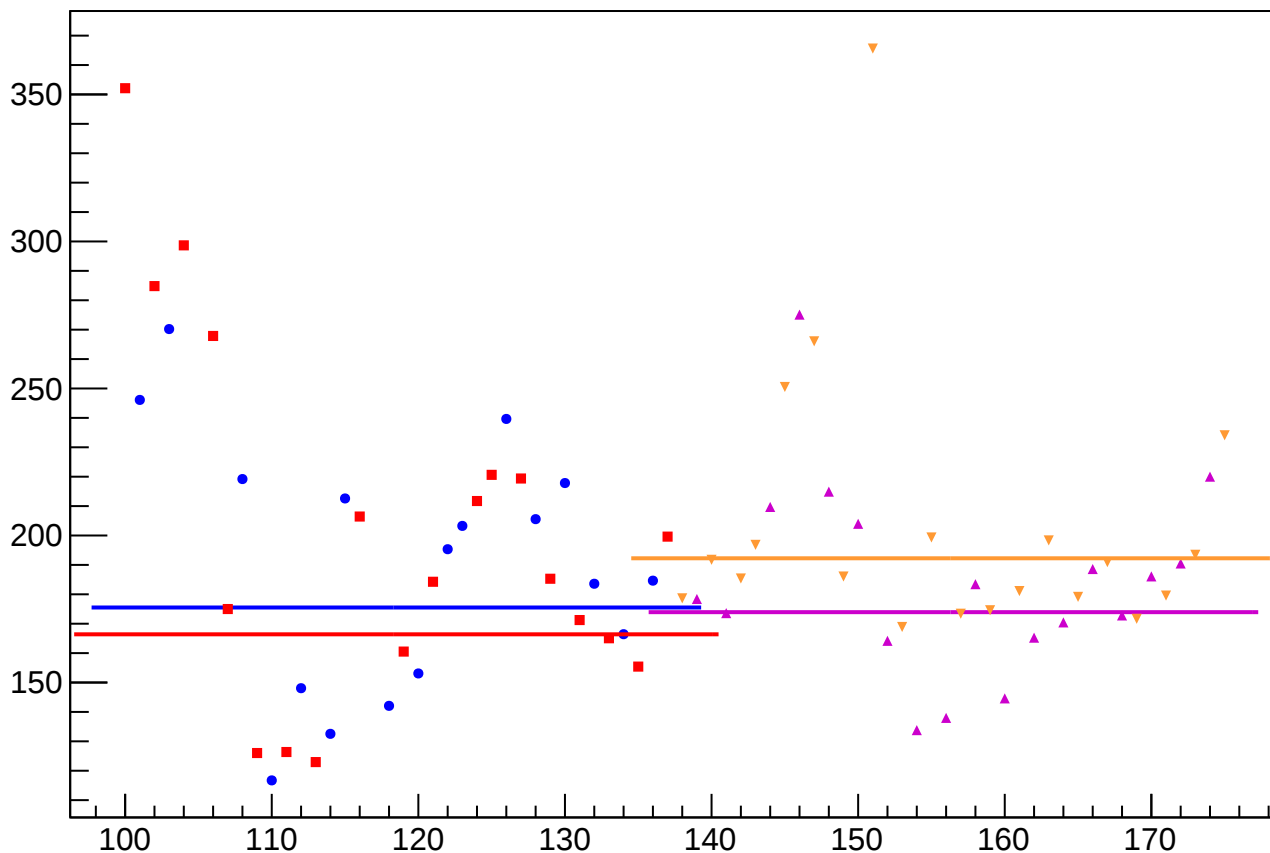
Right: -100.998+/-48.156 χ^2/NDF : 10597.9/35

In: -6941.465+/-39.823 χ^2/NDF :43025.8/34

Out: -5896.427+/-40.175 χ^2/NDF :45203.7/38

All: -6423.553+/-28.283 χ^2/NDF : 88570.8/73

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 192.250 $\pm$ 0.036 χ^2 /NDF: 711071.0/19

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 173.928 $\pm$ 0.034 χ^2 /NDF: 776592.7/17

Left: 182.611 $\pm$ 0.025 χ^2 /NDF: 1624733.9/37

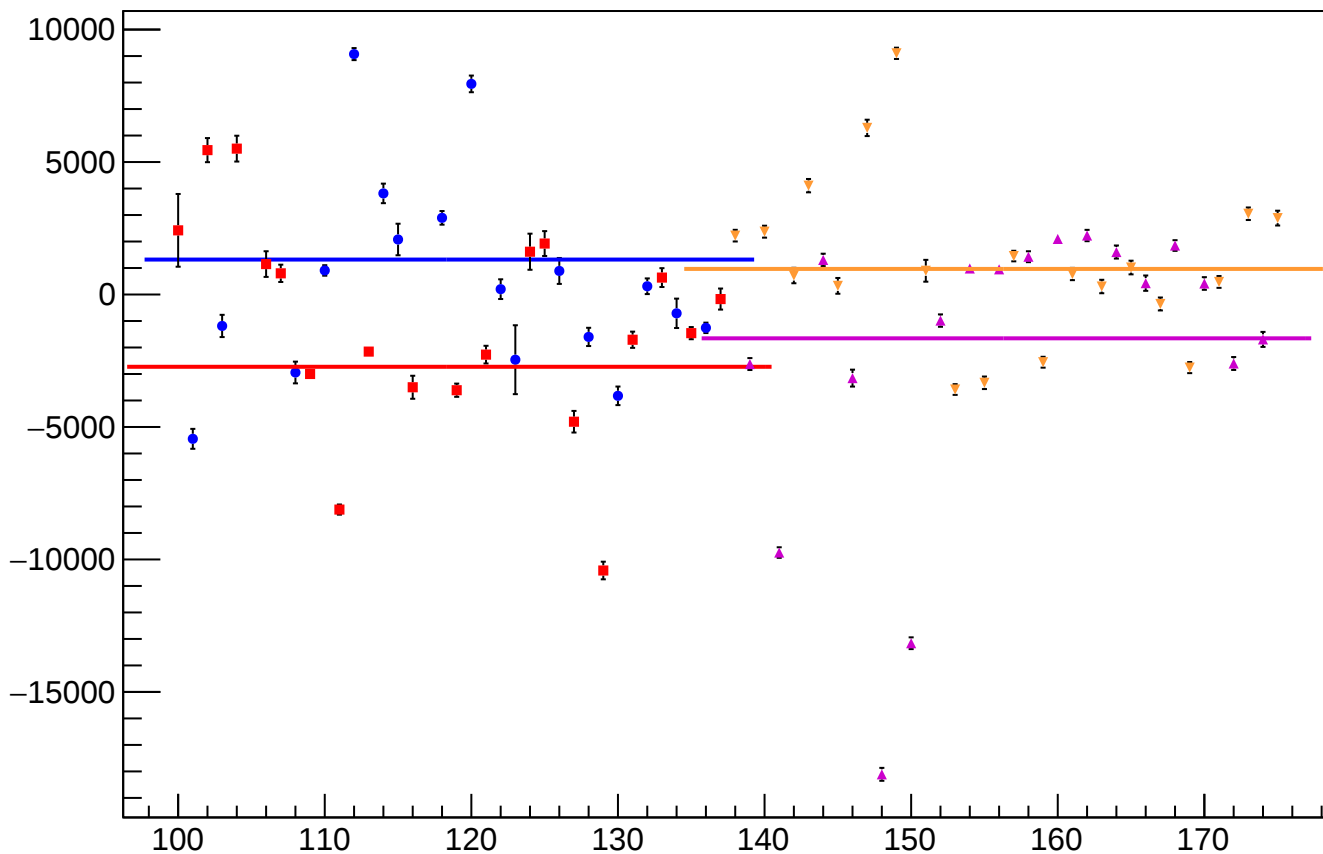
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 174.431 $\pm$ 0.028 χ^2 /NDF: 1466921.6/34

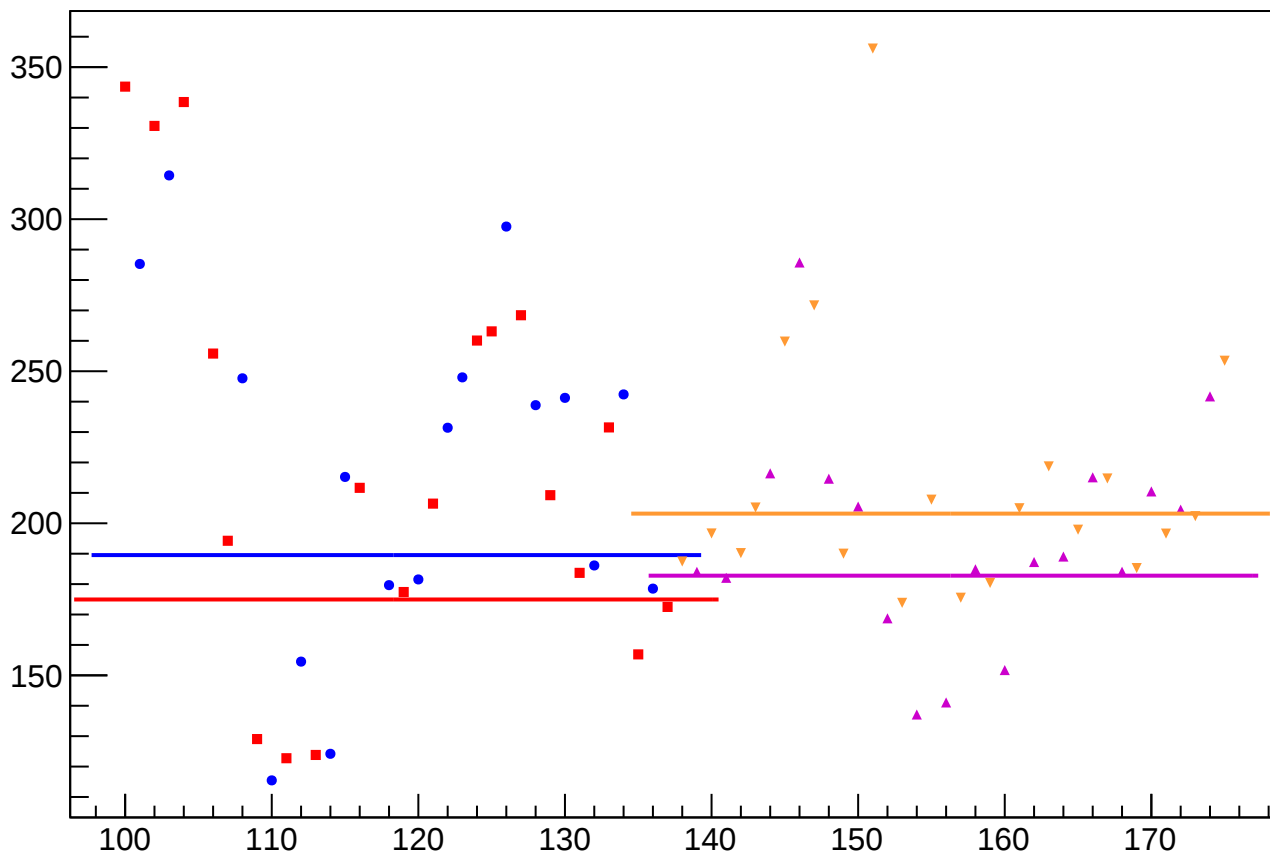
Out: 182.590 $\pm$ 0.028 χ^2 /NDF: 1834472.4/38

All: 178.474 $\pm$ 0.020 χ^2 /NDF: 3343004.8/73

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 203.180+/-0.038 χ^2/NDF : 668977.3/19

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 182.774+/-0.036 χ^2/NDF : 846531.0/17

Left: 192.411+/-0.026 χ^2/NDF : 1668384.5/37

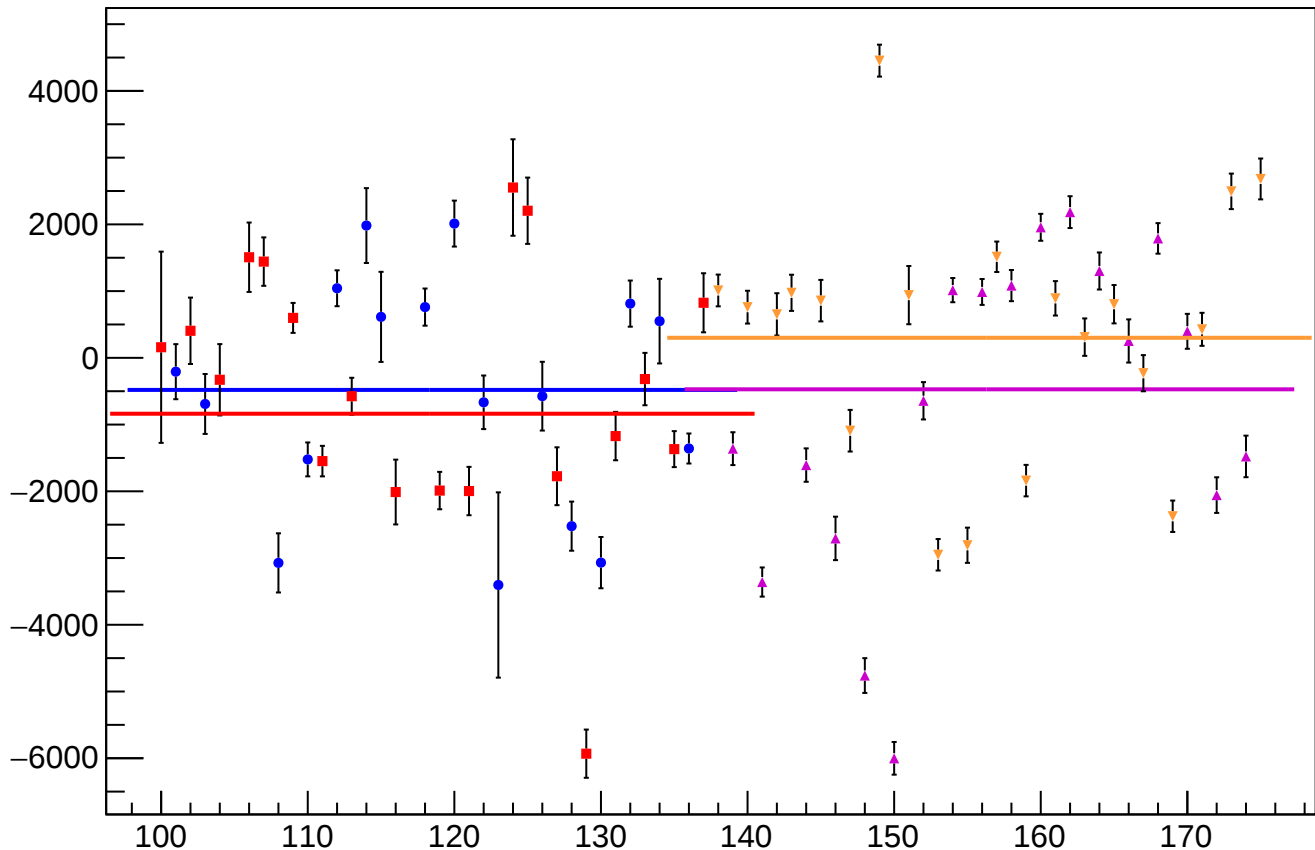
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 184.818+/-0.030 χ^2/NDF : 1838029.7/34

Out: 192.745+/-0.030 χ^2/NDF : 2171071.1/38

All: 188.763+/-0.021 χ^2/NDF : 4043927.6/73

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578 $\pm$ 88.640 χ^2/NDF : 290.7/16

Left Out: 300.595 $\pm$ 59.415 χ^2/NDF :1055.6/19

Right Out: -837.442 $\pm$ 82.243 χ^2/NDF : 435.3/18

Left In: -471.622 $\pm$ 57.258 χ^2/NDF :1673.4/17

Left: -99.786 $\pm$ 41.229 χ^2/NDF : 2816.5/37

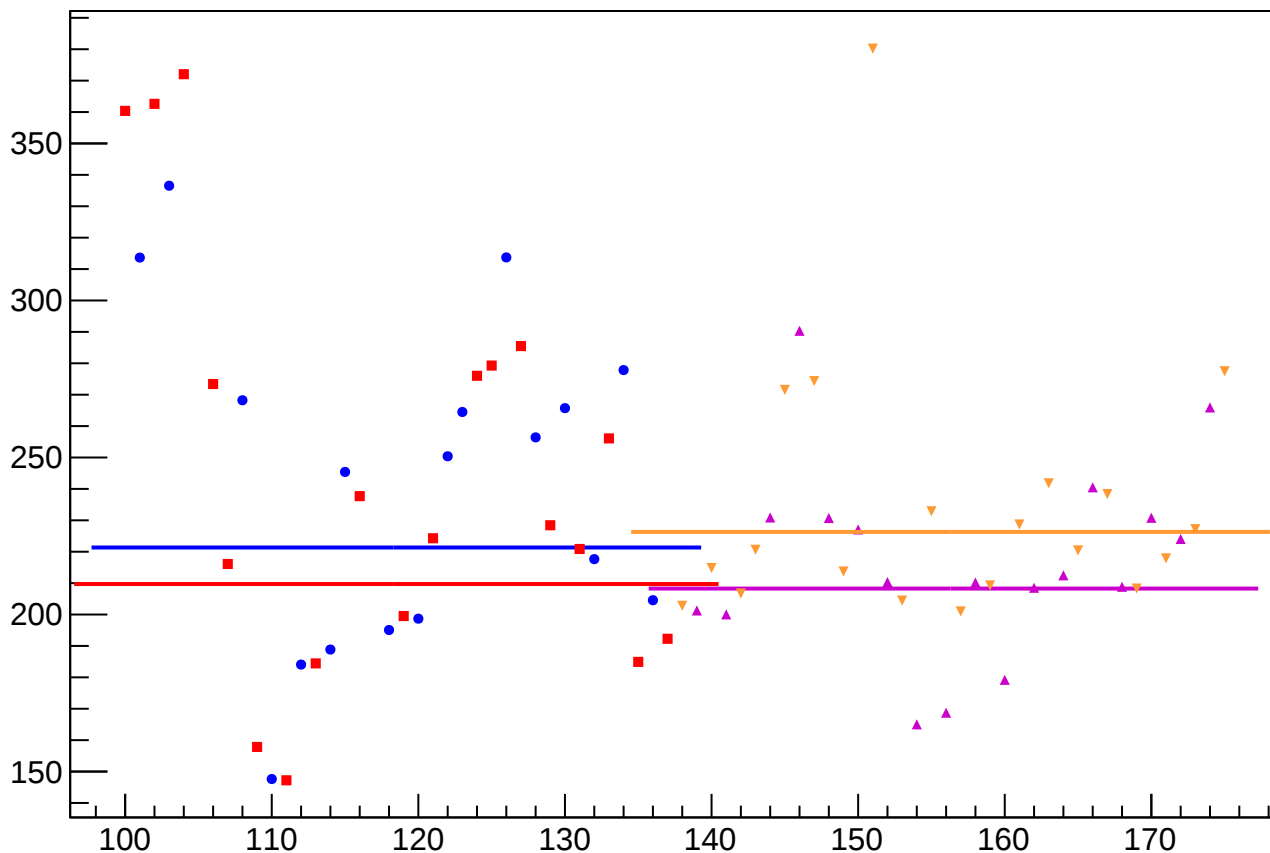
Right: -672.351 $\pm$ 60.290 χ^2/NDF : 734.7/35

In: -474.259 $\pm$ 48.096 χ^2/NDF :1964.1/34

Out: -89.672 $\pm$ 48.162 χ^2/NDF :1616.7/38

All: -282.228 $\pm$ 34.032 χ^2/NDF : 3612.7/73

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 226.312 $\pm$ 0.042 χ^2 /NDF: 510947.7/19

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 208.270 $\pm$ 0.040 χ^2 /NDF: 523879.0/17

Left: 216.958 $\pm$ 0.029 χ^2 /NDF: 1130437.7/37

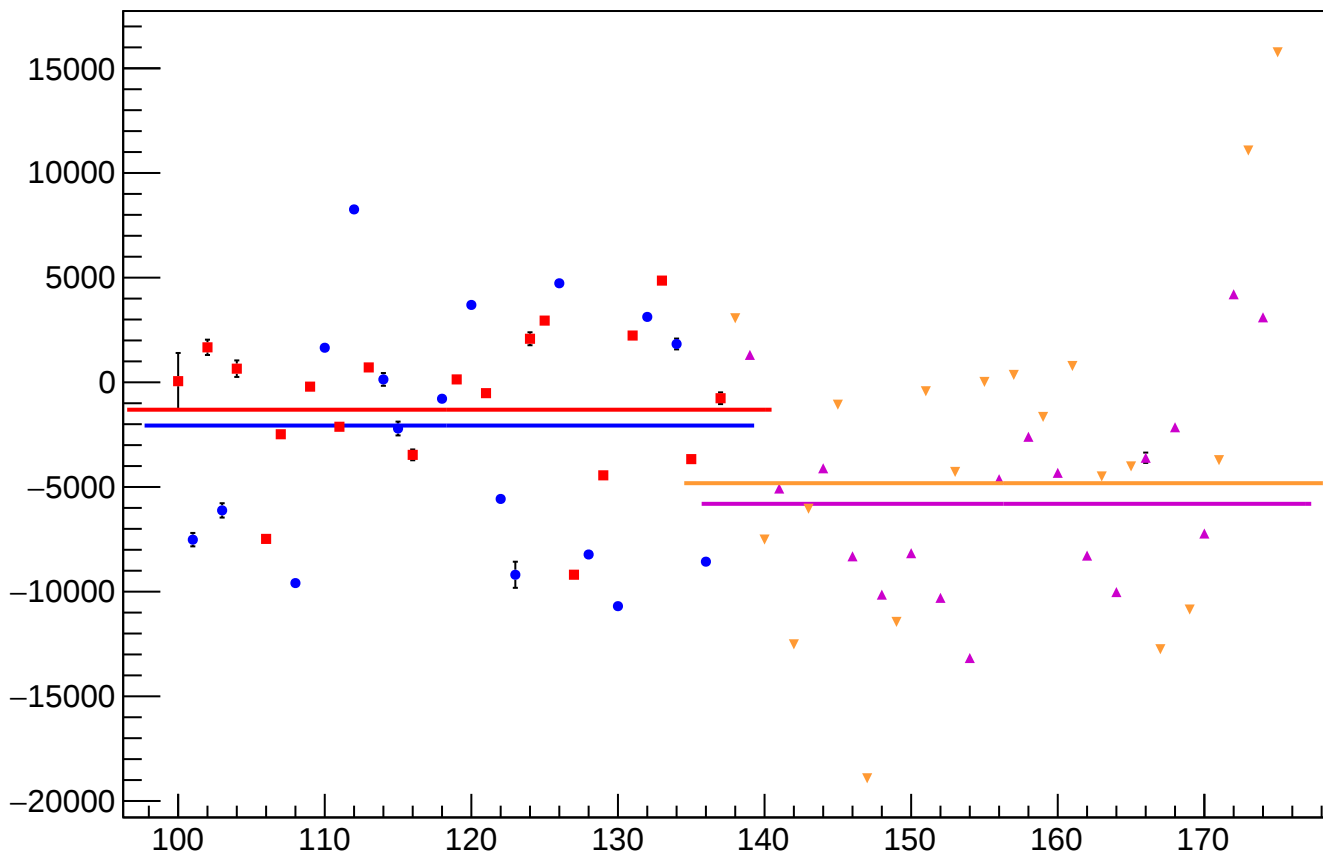
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 212.119 $\pm$ 0.034 χ^2 /NDF: 1200256.4/34

Out: 220.621 $\pm$ 0.034 χ^2 /NDF: 1448371.5/38

All: 216.364 $\pm$ 0.024 χ^2 /NDF: 2679832.0/73

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -4818.637 $\pm$ 35.131 χ^2/NDF : 44911.8/19

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -5804.384 $\pm$ 36.451 χ^2/NDF : 13396.4/17

Left: -5293.347 $\pm$ 25.295 χ^2/NDF : 58687.3/37

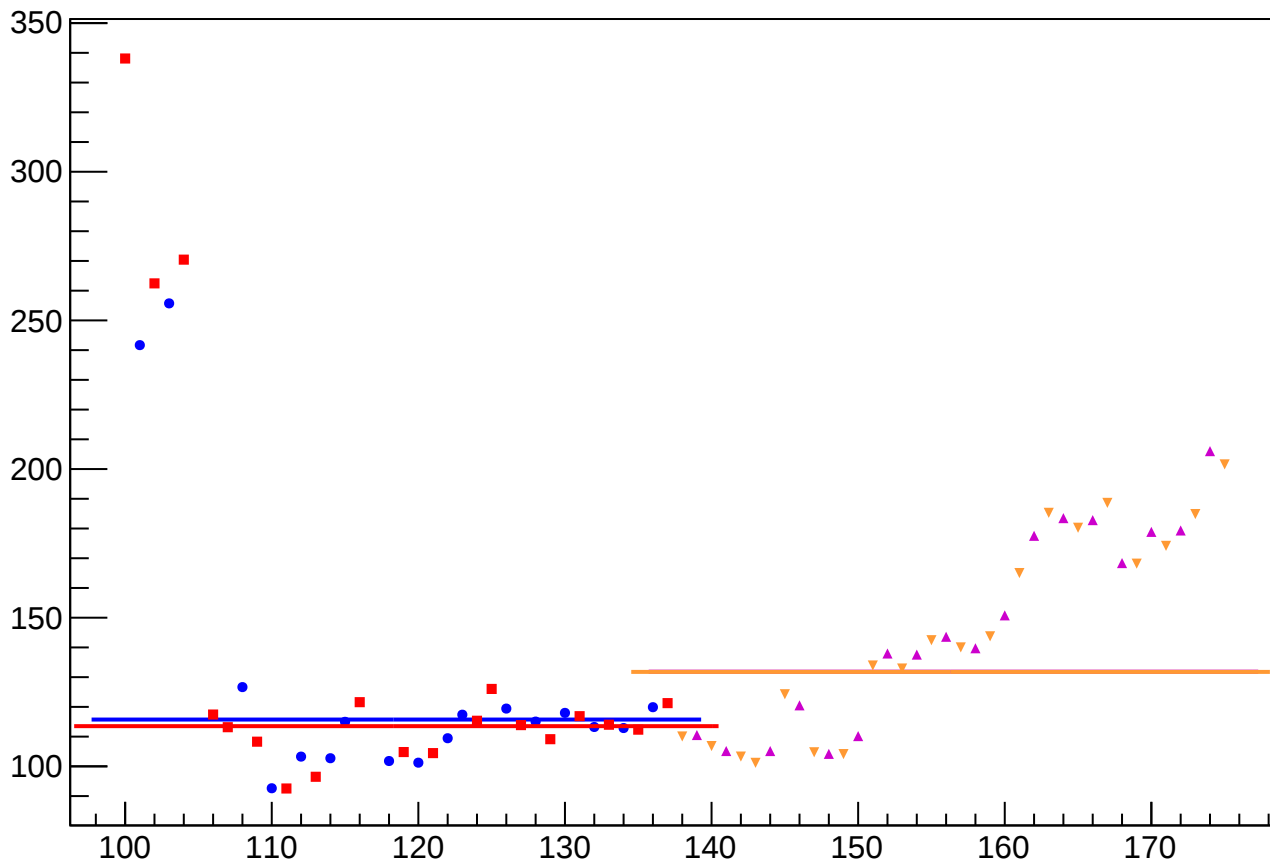
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4411.984 $\pm$ 28.877 χ^2/NDF : 33848.3/34

Out: -3489.452 $\pm$ 27.692 χ^2/NDF : 54586.4/38

All: -3931.398 $\pm$ 19.987 χ^2/NDF : 88966.4/73

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 131.770+/-0.025 χ^2/NDF :1461629.3/19

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 131.843+/-0.026 χ^2/NDF :1252580.1/17

Left: 131.805+/-0.018 χ^2/NDF : 2714213.5/37

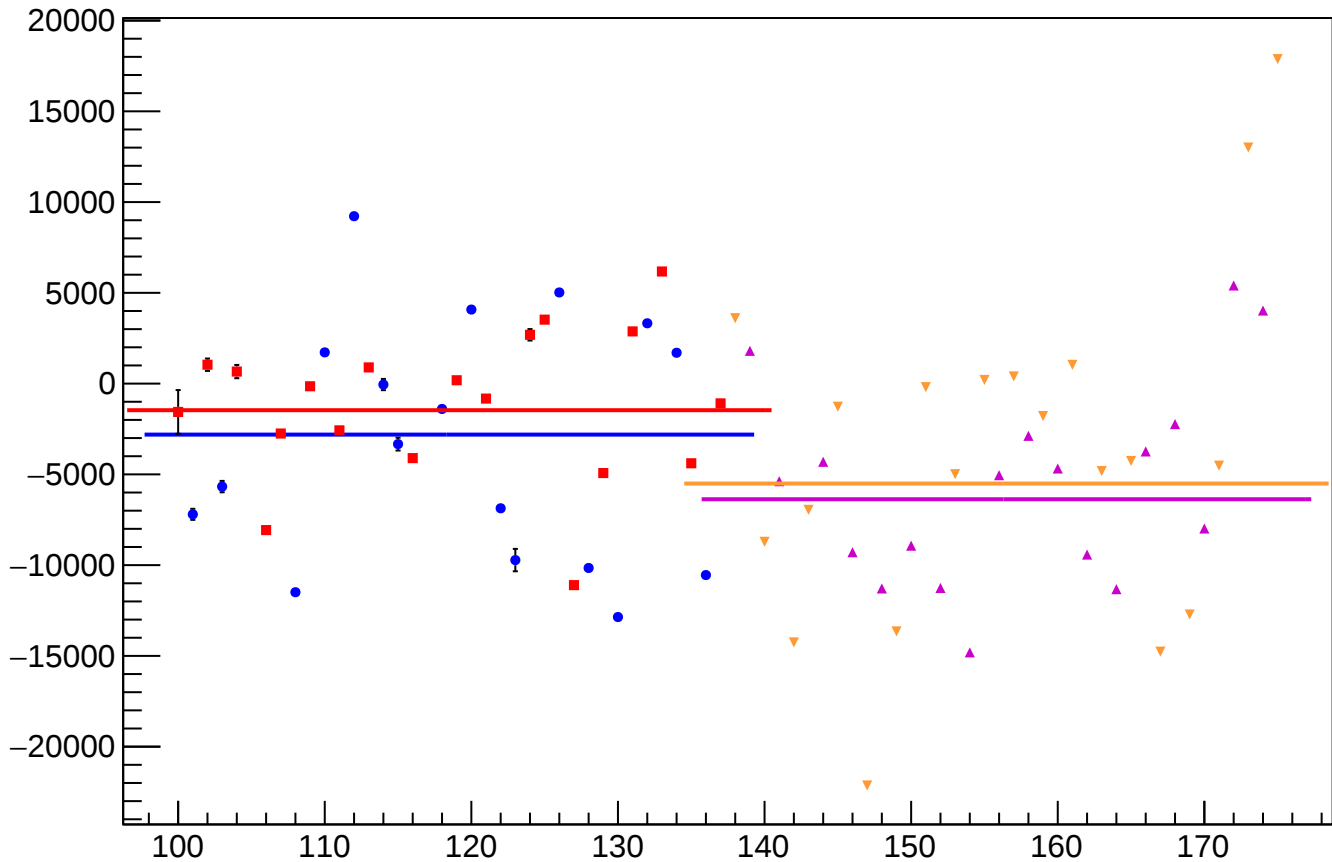
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 125.847+/-0.020 χ^2/NDF :2141929.7/34

Out: 124.859+/-0.020 χ^2/NDF :2462670.8/38

All: 125.332+/-0.014 χ^2/NDF : 4605819.0/73

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2809.101 $\pm$ 48.284 χ^2 /NDF: 21263.1/16

Left Out: -5505.397 $\pm$ 37.359 χ^2 /NDF:52643.9/19

Right Out: -1465.074 $\pm$ 46.394 χ^2 /NDF: 8004.7/18

Left In: -6369.898 $\pm$ 38.774 χ^2 /NDF:15668.1/17

Left: -5921.587 $\pm$ 26.903 χ^2 /NDF: 68569.8/37

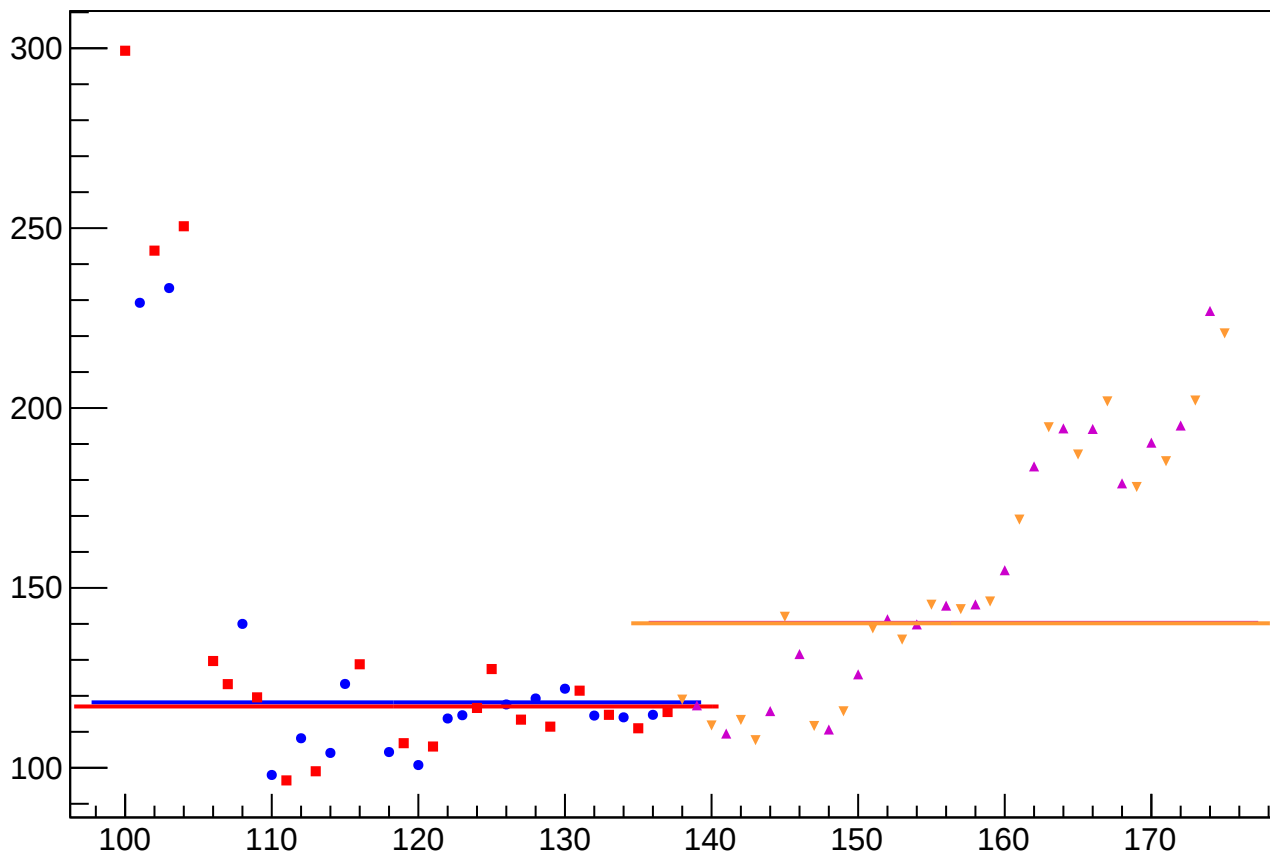
Right: -2110.267 $\pm$ 33.454 χ^2 /NDF: 29670.7/35

In: -4973.919 $\pm$ 30.232 χ^2 /NDF:40237.6/34

Out: -3916.112 $\pm$ 29.098 χ^2 /NDF:65249.4/38

All: -4424.791 $\pm$ 20.965 χ^2 /NDF: 106122.5/77

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.188+/-0.034 χ^2/NDF : 636252.0/16

Left Out: 140.165+/-0.026 χ^2/NDF :1382964.8/19

Right Out: 117.046+/-0.033 χ^2/NDF : 690635.5/18

Left In: 140.285+/-0.027 χ^2/NDF :1182661.1/17

Left: 140.223+/-0.019 χ^2/NDF : 2565635.9/37

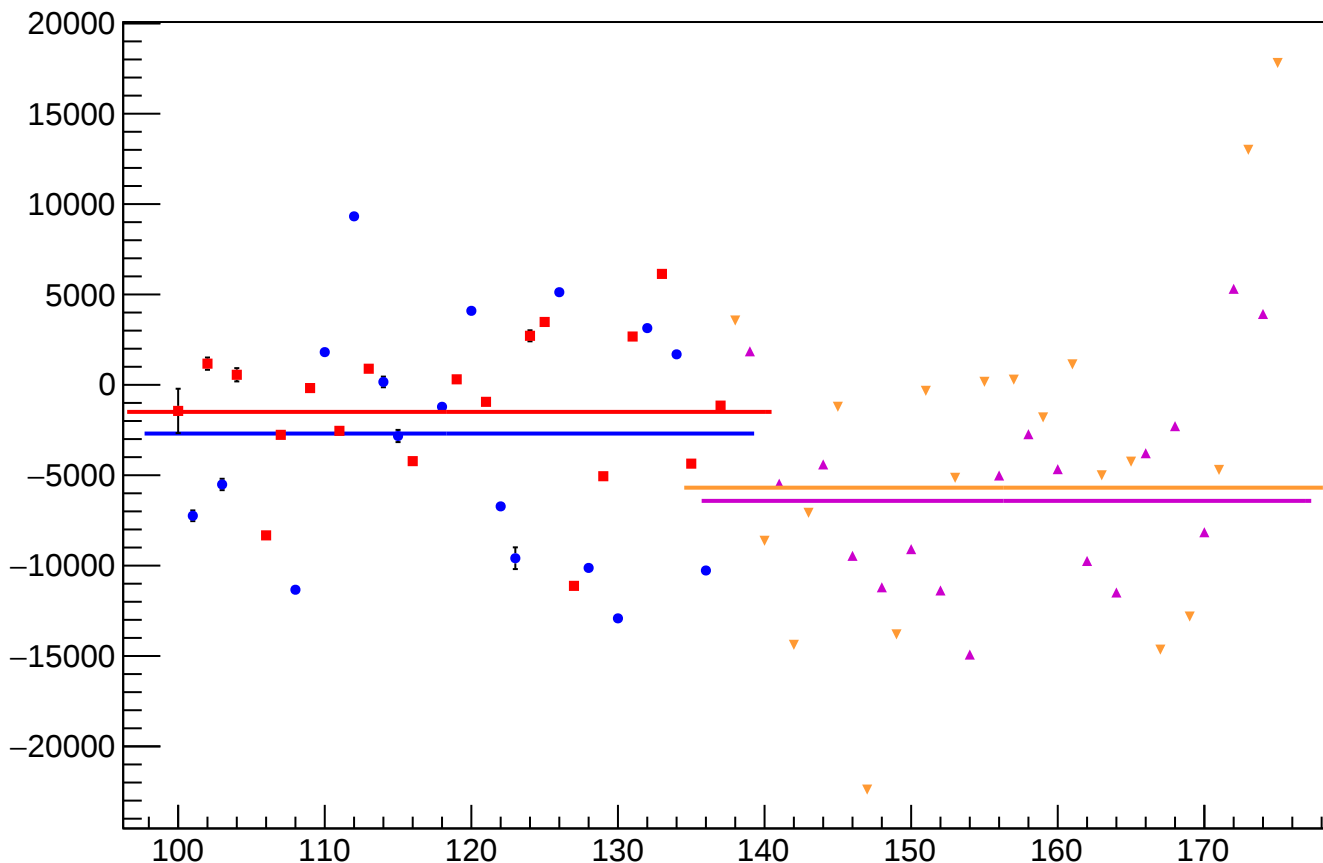
Right: 117.594+/-0.024 χ^2/NDF : 1327469.8/35

In: 131.622+/-0.021 χ^2/NDF :2073576.0/34

Out: 131.071+/-0.021 χ^2/NDF :2374894.1/38

All: 131.336+/-0.015 χ^2/NDF : 4448815.7/73

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2694.260+/-46.347 χ^2/NDF : 22860.3/16

Left Out: -5688.275+/-36.470 χ^2/NDF : 56850.0/19

Right Out: -1495.744+/-44.445 χ^2/NDF : 8717.2/18

Left In: -6418.433+/-37.775 χ^2/NDF : 16719.8/17

Left: -6040.529+/-26.237 χ^2/NDF : 73763.1/37

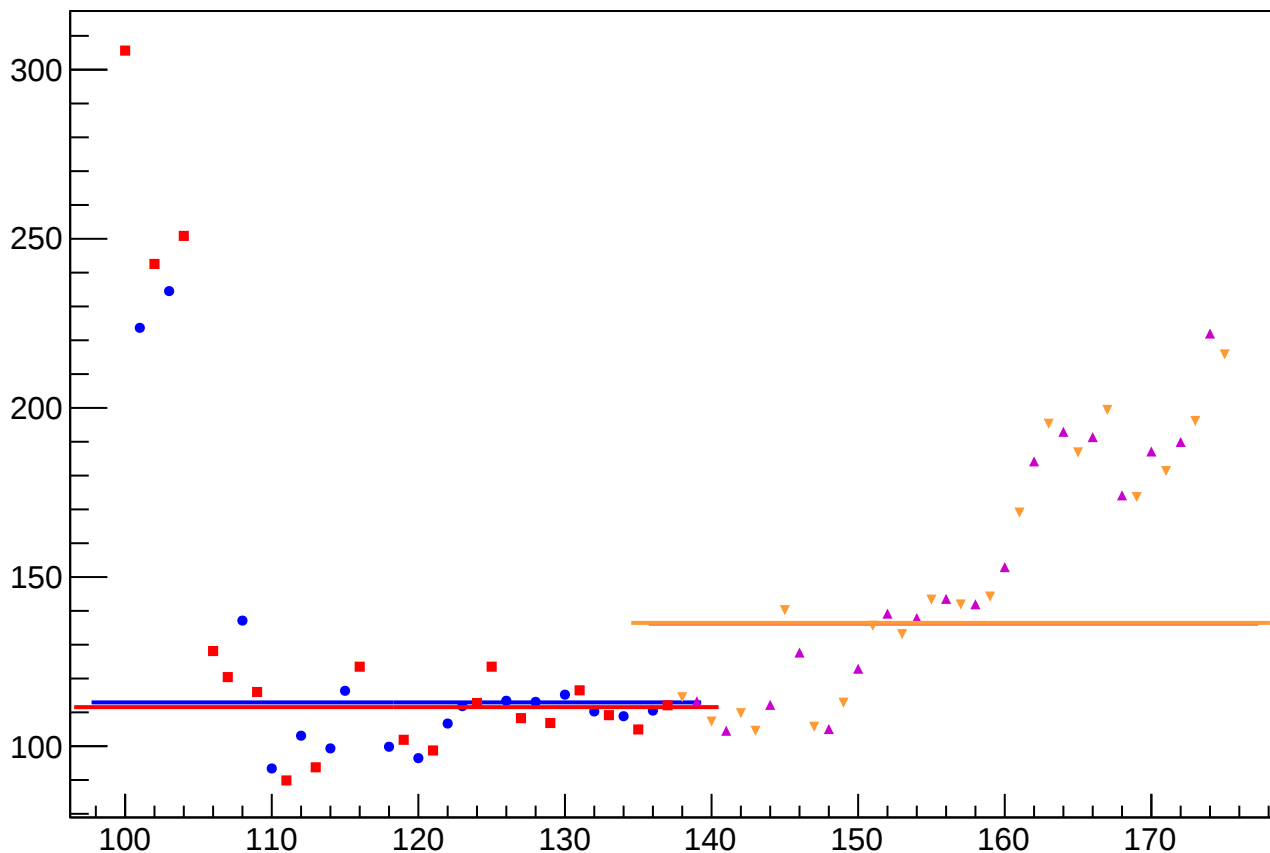
Right: -2069.900+/-32.079 χ^2/NDF : 31925.8/35

In: -4931.958+/-29.281 χ^2/NDF : 43459.7/34

Out: -4001.231+/-28.193 χ^2/NDF : 70884.9/38

All: -4448.985+/-20.309 χ^2/NDF : 114868.8/77

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.940+/-0.033 χ^2/NDF : 680283.1/16

Left Out: 136.449+/-0.026 χ^2/NDF : 1496924.5/19

Right Out: 111.544+/-0.031 χ^2/NDF : 765502.6/18

Left In: 136.271+/-0.027 χ^2/NDF : 1289300.0/17

Left: 136.363+/-0.019 χ^2/NDF : 2786247.5/37

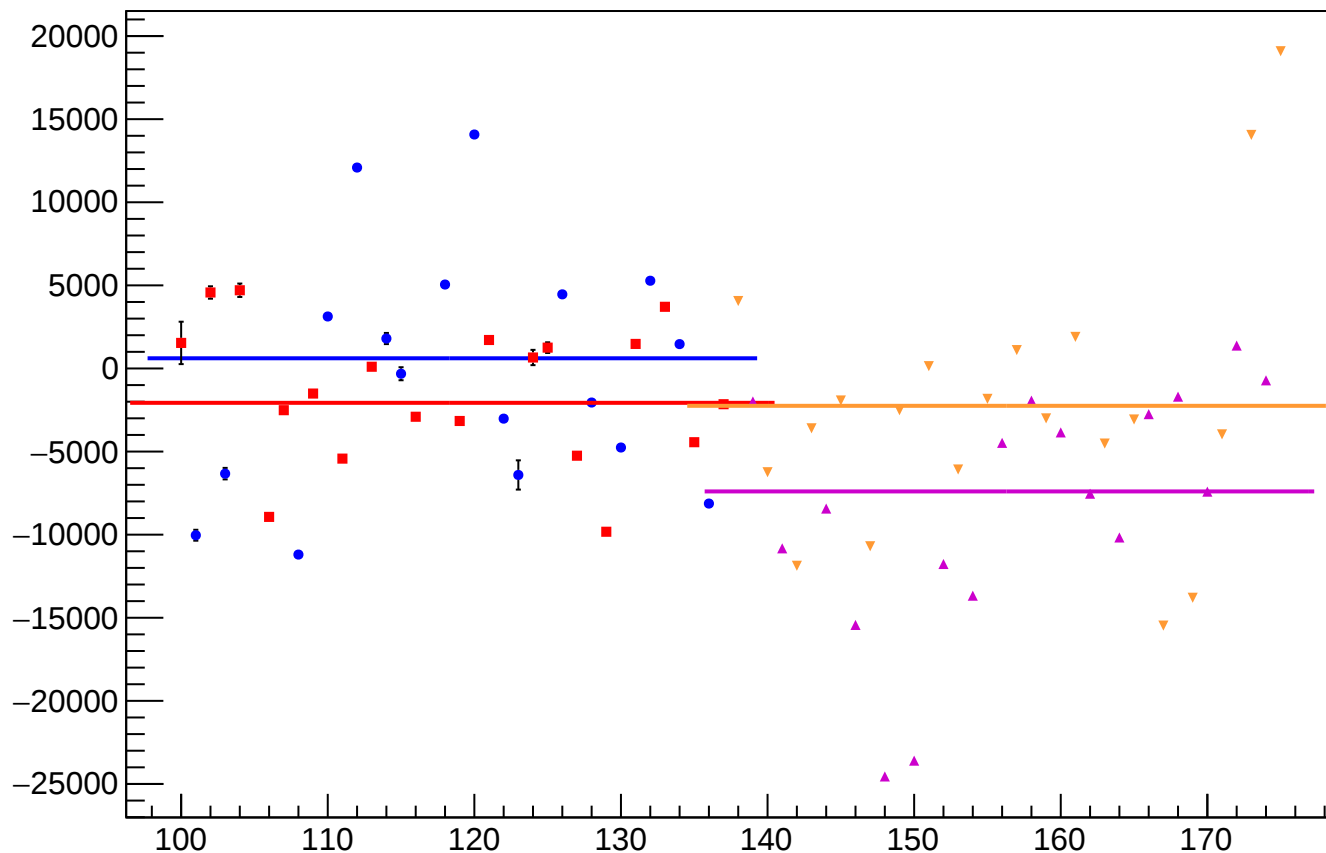
Right: 112.213+/-0.023 χ^2/NDF : 1446732.2/35

In: 126.959+/-0.021 χ^2/NDF : 2274097.4/34

Out: 126.427+/-0.020 χ^2/NDF : 2637748.8/38

All: 126.683+/-0.014 χ^2/NDF : 4912188.0/73

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 612.621 ± 56.062 $\chi^2/\text{NDF}: 18243.4/16$

Left Out: -2247.546 ± 41.955 $\chi^2/\text{NDF}: 30884.0/19$

Right Out: -2067.410 ± 53.931 $\chi^2/\text{NDF}: 4642.7/18$

Left In: -7398.756 ± 44.563 $\chi^2/\text{NDF}: 18854.5/17$

Left: -4667.970 ± 30.547 $\chi^2/\text{NDF}: 56822.0/37$

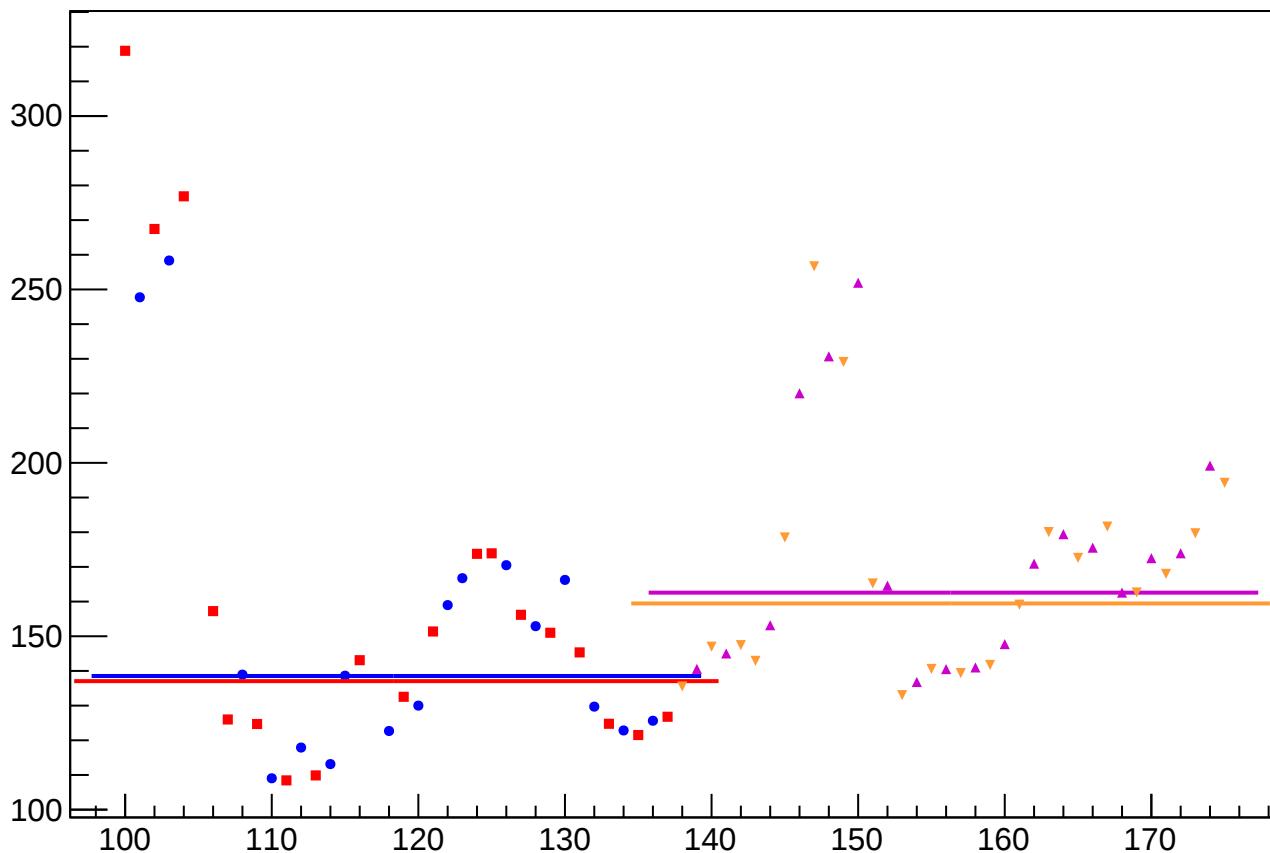
Right: -779.298 ± 38.866 $\chi^2/\text{NDF}: 24073.0/35$

In: -4296.727 ± 34.885 $\chi^2/\text{NDF}: 49611.9/34$

Out: -2179.632 ± 33.114 $\chi^2/\text{NDF}: 35533.7/38$

All: -3183.099 ± 24.017 $\chi^2/\text{NDF}: 87083.0/73$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.542 $\pm$ 0.040 χ^2 /NDF: 668941.7/16

Left Out: 159.461 $\pm$ 0.030 χ^2 /NDF: 742820.6/19

Right Out: 137.061 $\pm$ 0.038 χ^2 /NDF: 755491.9/18

Left In: 162.574 $\pm$ 0.032 χ^2 /NDF: 756875.6/17

Left: 160.924 $\pm$ 0.022 χ^2 /NDF: 1504872.6/37

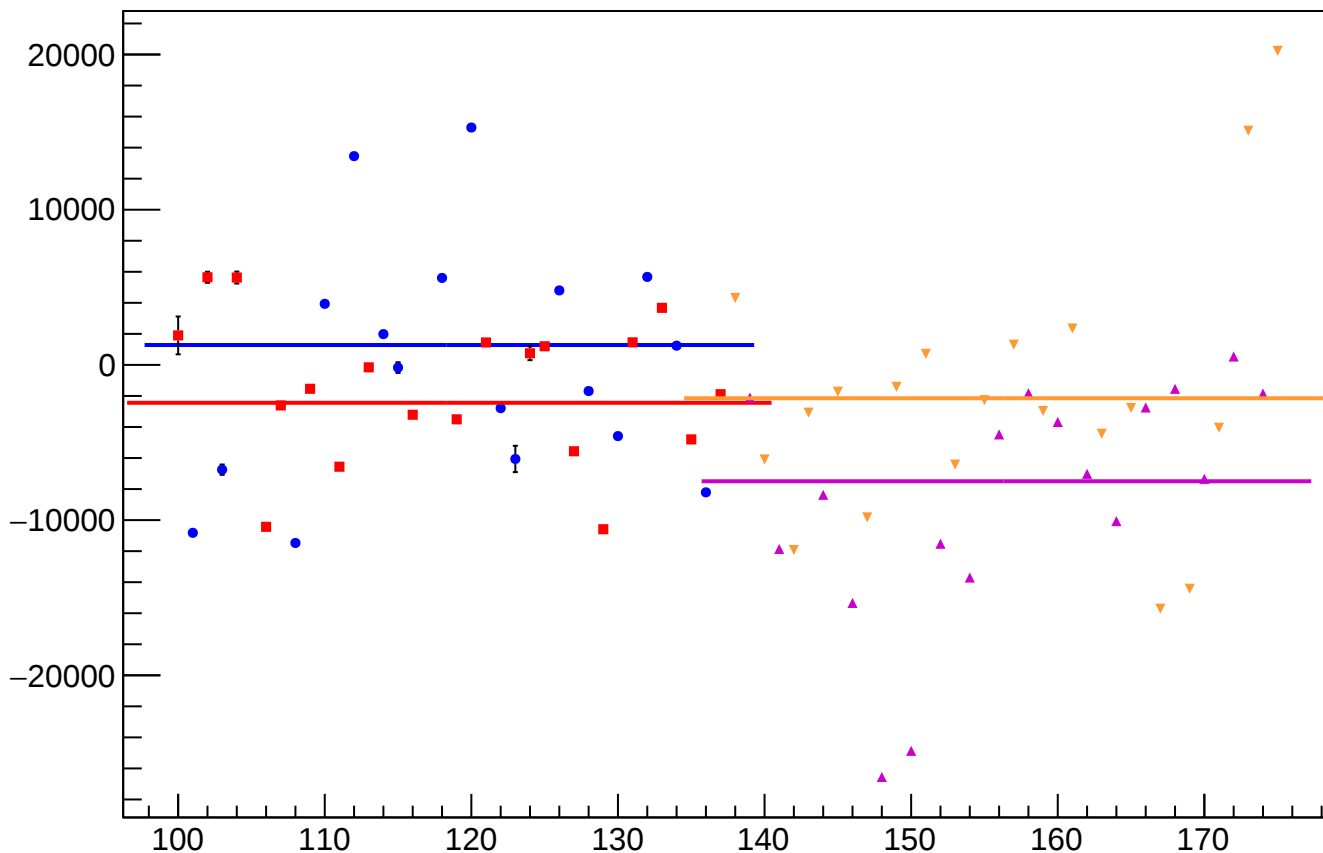
Right: 137.773 $\pm$ 0.027 χ^2 /NDF: 1425158.5/35

In: 153.269 $\pm$ 0.025 χ^2 /NDF: 1651043.0/34

Out: 151.015 $\pm$ 0.023 χ^2 /NDF: 1713256.0/38

All: 152.084 $\pm$ 0.017 χ^2 /NDF: 3368688.8/73

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1282.978+/-46.572 χ^2/NDF : 30540.8/16

Left Out: -2147.125+/-37.727 χ^2/NDF :38852.4/19

Right Out: -2440.256+/-44.286 χ^2/NDF : 7677.5/18

Left In: -7497.051+/-40.160 χ^2/NDF :23636.9/17

Left: -4655.102+/-27.497 χ^2/NDF : 71916.2/37

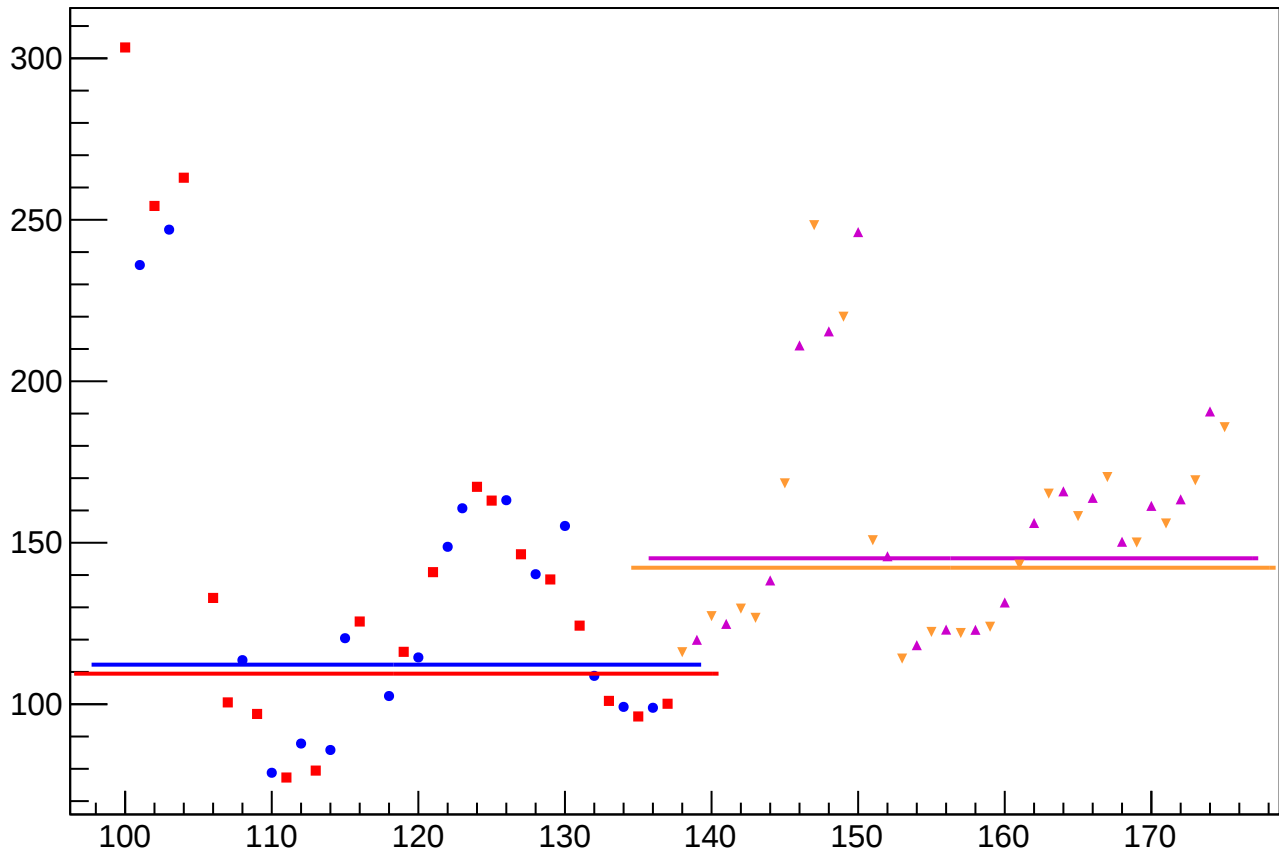
Right: -672.266+/-32.093 χ^2/NDF : 41574.7/35

In: -3752.604+/-30.414 χ^2/NDF :74561.8/34

Out: -2270.395+/-28.719 χ^2/NDF :46555.3/38

All: -2969.042+/-20.881 χ^2/NDF : 122372.7/77

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.251 $\pm$ 0.033 χ^2 /NDF: 1125537.4/16

Left Out: 142.266 $\pm$ 0.027 χ^2 /NDF: 1086204.3/19

Right Out: 109.460 $\pm$ 0.031 χ^2 /NDF: 1269633.4/18

Left In: 145.189 $\pm$ 0.028 χ^2 /NDF: 1077498.2/17

Left: 143.636 $\pm$ 0.019 χ^2 /NDF: 2169333.0/37

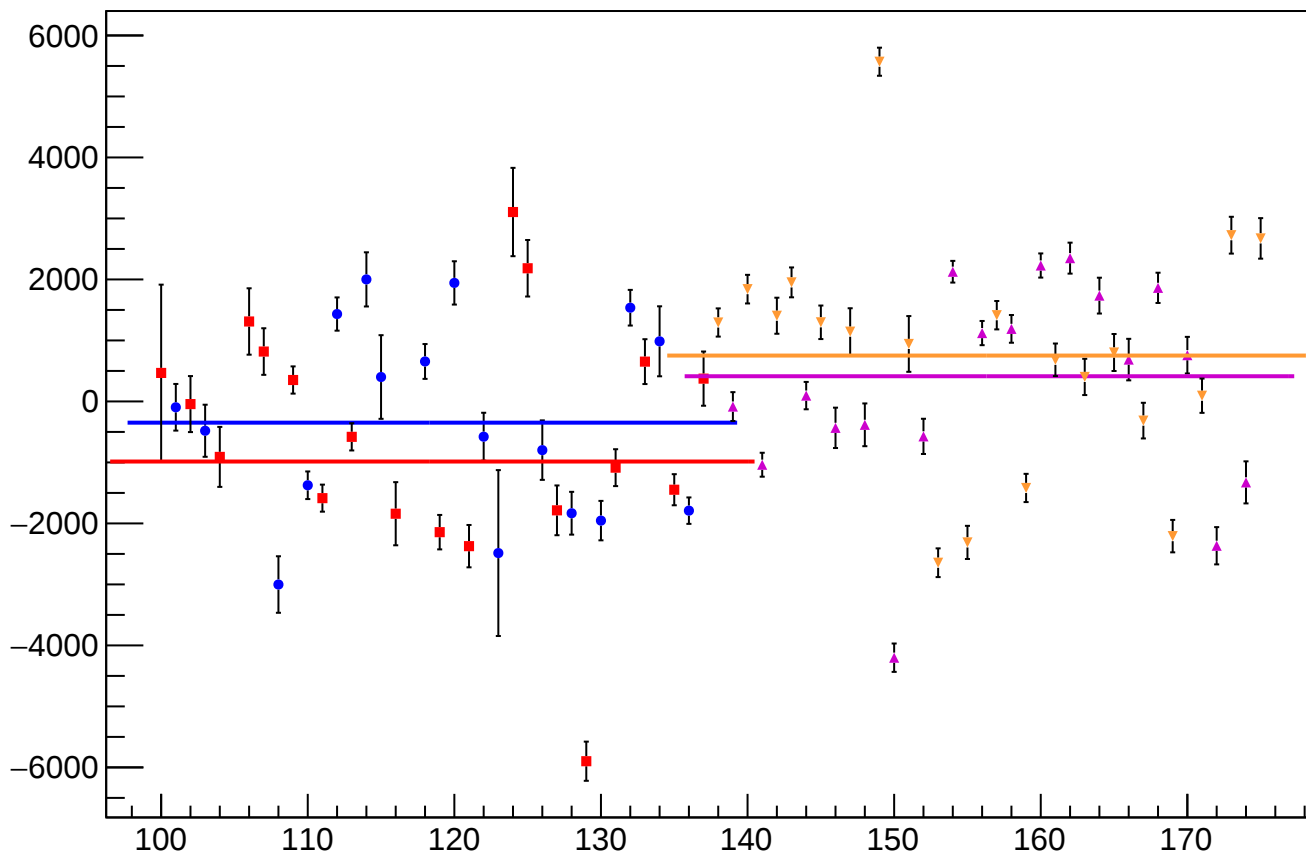
Right: 110.785 $\pm$ 0.023 χ^2 /NDF: 2398941.6/35

In: 131.142 $\pm$ 0.022 χ^2 /NDF: 2776815.8/34

Out: 128.470 $\pm$ 0.020 χ^2 /NDF: 2991793.7/38

All: 129.729 $\pm$ 0.015 χ^2 /NDF: 5776769.4/73

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -348.055+/-83.826 χ^2/NDF : 317.3/16

Left Out: 752.044+/-60.622 χ^2/NDF :1149.9/19

Right Out: -985.242+/-77.683 χ^2/NDF : 476.6/18

Left In: 413.040+/-58.166 χ^2/NDF :901.9/17

Left: 575.534+/-41.971 χ^2/NDF : 2068.1/37

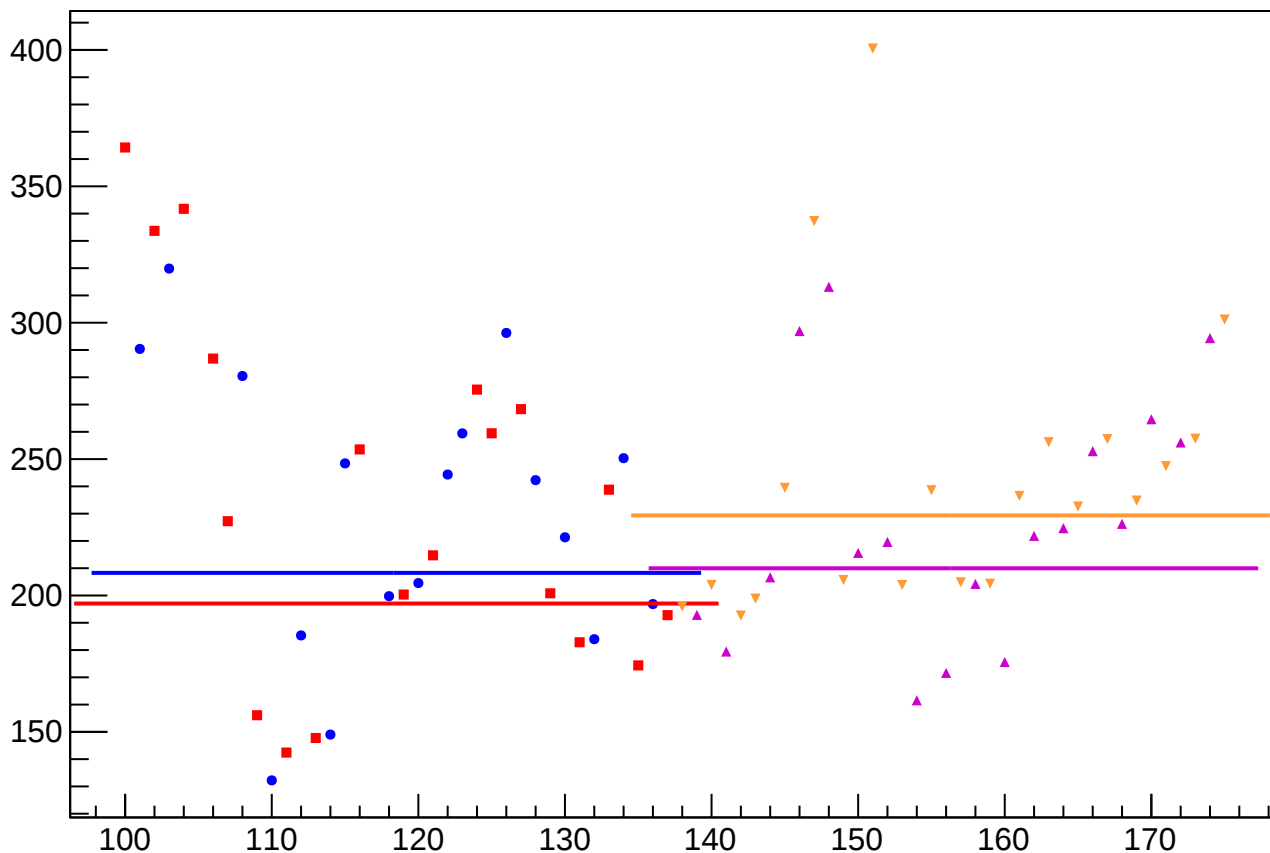
Right: -690.850+/-56.978 χ^2/NDF : 824.9/35

In: 165.687+/-47.788 χ^2/NDF :1274.9/34

Out: 94.491+/-47.792 χ^2/NDF :1937.3/38

All: 130.092+/-33.793 χ^2/NDF : 3213.3/73

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.288 $\pm$ 0.059 χ^2/NDF : 698491.0/16

Left Out: 229.359 $\pm$ 0.043 χ^2/NDF :817354.9/19

Right Out: 197.051 $\pm$ 0.055 χ^2/NDF : 926786.6/18

Left In: 209.970 $\pm$ 0.041 χ^2/NDF :939850.8/17

Left: 219.264 $\pm$ 0.030 χ^2/NDF : 1863718.2/37

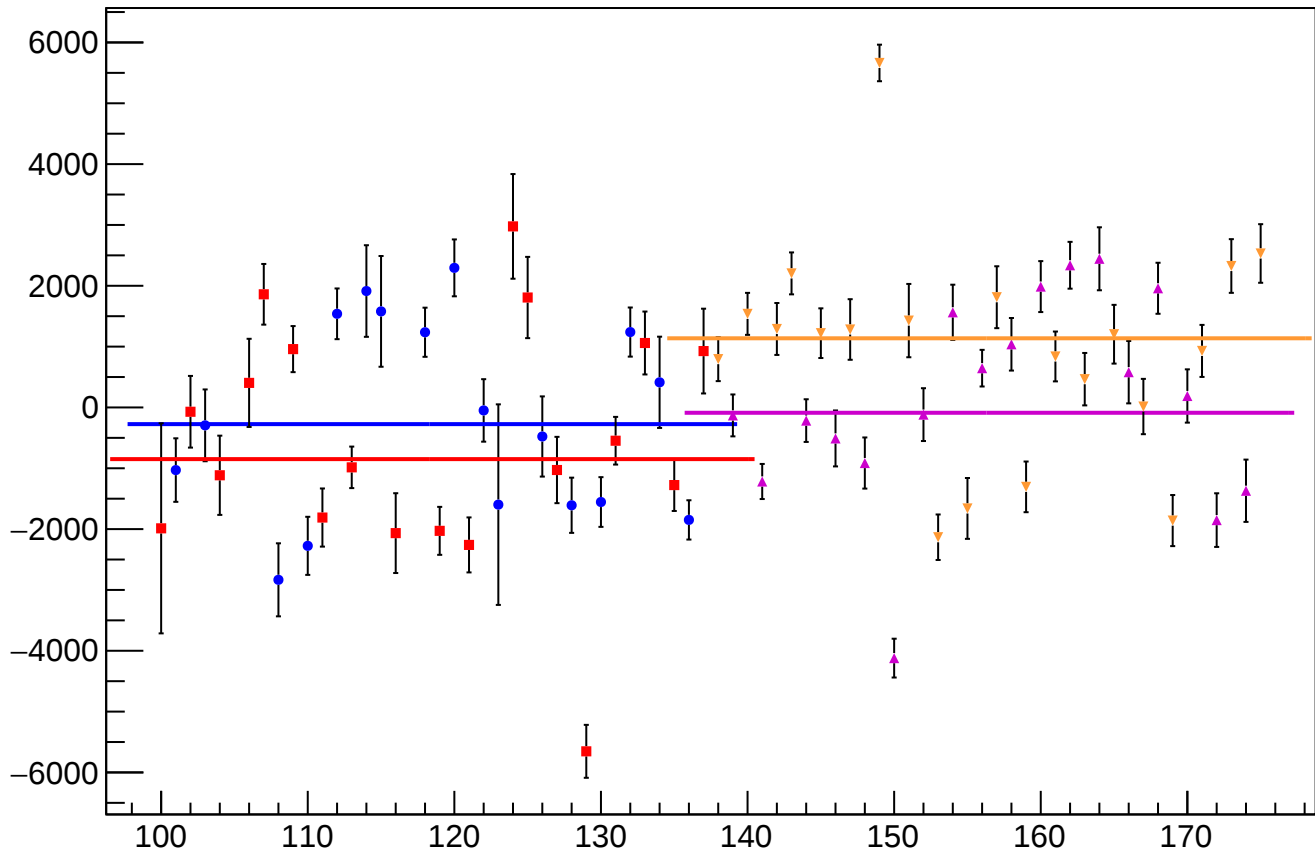
Right: 202.243 $\pm$ 0.040 χ^2/NDF : 1644610.3/35

In: 209.423 $\pm$ 0.034 χ^2/NDF :1638885.9/34

Out: 217.130 $\pm$ 0.034 χ^2/NDF :1959136.8/38

All: 213.277 $\pm$ 0.024 χ^2/NDF : 3624029.2/73

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -274.260 $\pm$ 121.326 χ^2 /NDF: 171.6/16

Left Out: 1136.728 $\pm$ 92.997 χ^2 /NDF:459.0/19

Right Out: -849.413 $\pm$ 115.349 χ^2 /NDF: 263.3/18

Left In: -87.633 $\pm$ 93.173 χ^2 /NDF:342.3/17

Left: 525.705 $\pm$ 65.821 χ^2 /NDF: 887.8/37

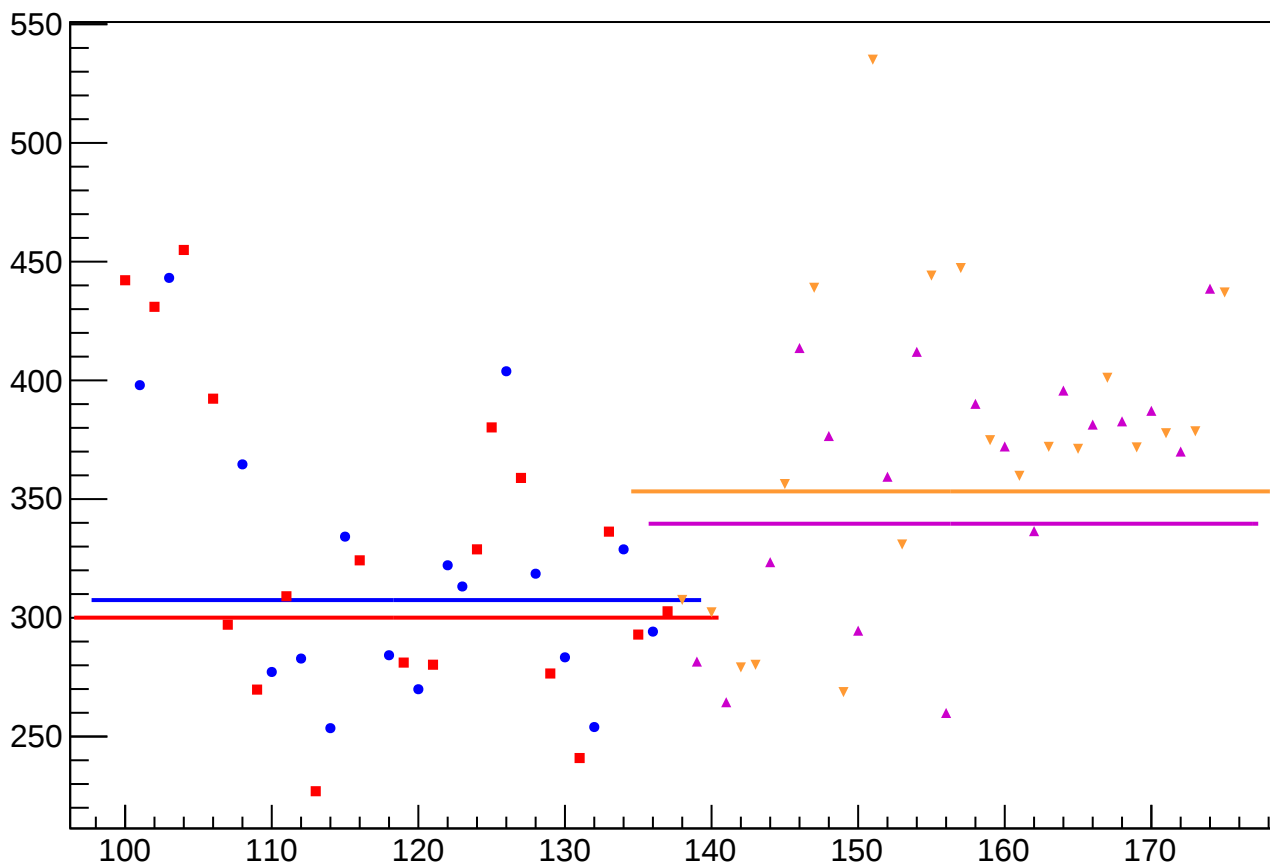
Right: -576.352 $\pm$ 83.597 χ^2 /NDF: 446.6/35

In: -156.867 $\pm$ 73.897 χ^2 /NDF:515.4/34

Out: 354.308 $\pm$ 72.398 χ^2 /NDF:901.9/38

All: 103.956 $\pm$ 51.715 χ^2 /NDF: 1441.7/73

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.468+/-0.086 χ^2/NDF : 323096.7/16

Left Out: 353.242+/-0.066 χ^2/NDF : 879040.7/19

Right Out: 300.069+/-0.082 χ^2/NDF : 490398.9/18

Left In: 339.626+/-0.066 χ^2/NDF : 704450.1/17

Left: 346.447+/-0.047 χ^2/NDF : 1604887.8/37

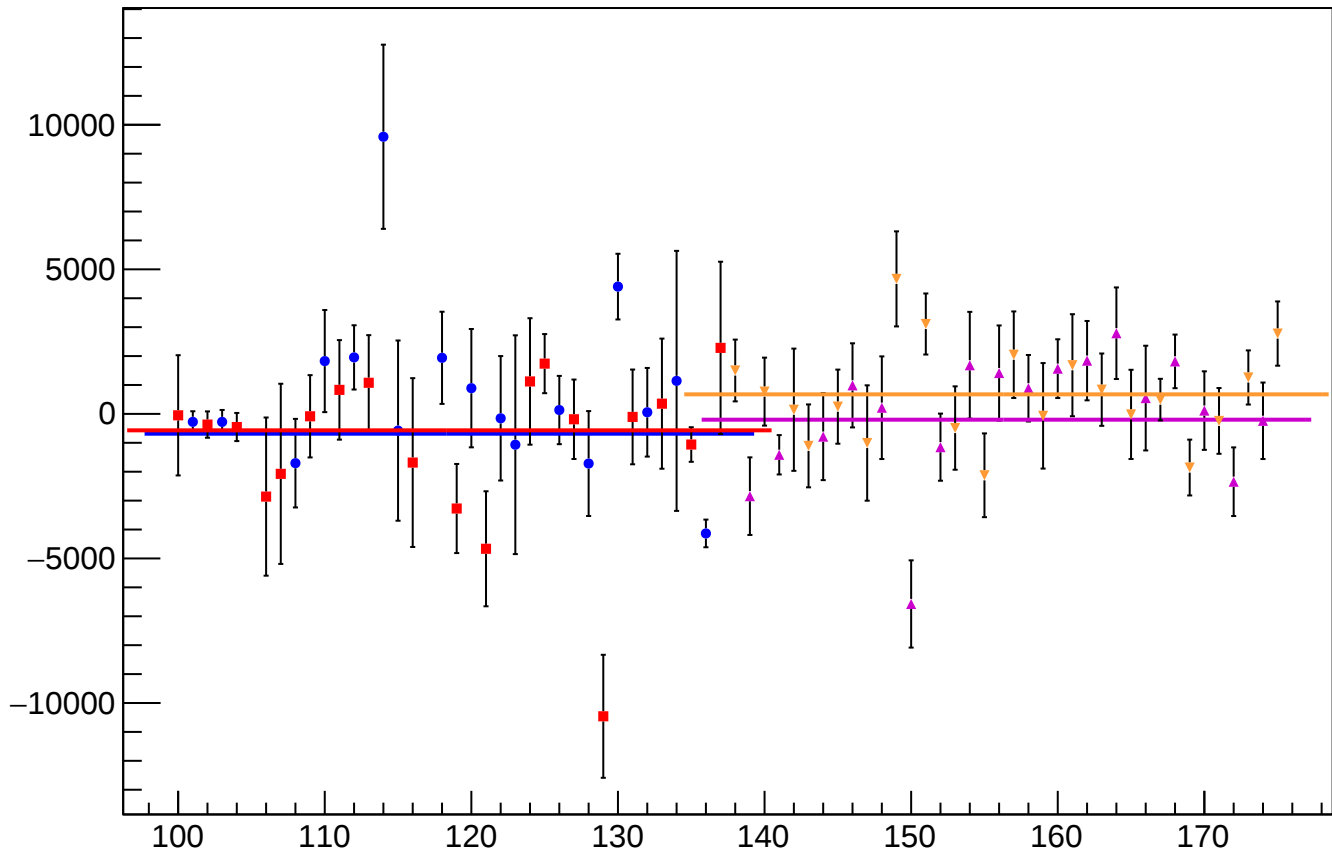
Right: 303.582+/-0.059 χ^2/NDF : 817401.9/35

In: 327.696+/-0.052 χ^2/NDF : 1115929.2/34

Out: 332.295+/-0.051 χ^2/NDF : 1627009.1/38

All: 330.043+/-0.037 χ^2/NDF : 2746891.2/73

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -685.056 $\pm$ 210.341 χ^2 /NDF: 97.4/16

Left Out: 676.167 $\pm$ 274.727 χ^2 /NDF:31.7/19

Right Out: -568.651 $\pm$ 243.251 χ^2 /NDF: 39.7/18

Left In: -200.670 $\pm$ 291.924 χ^2 /NDF:46.4/17

Left: 264.335 $\pm$ 200.065 χ^2 /NDF: 82.9/37

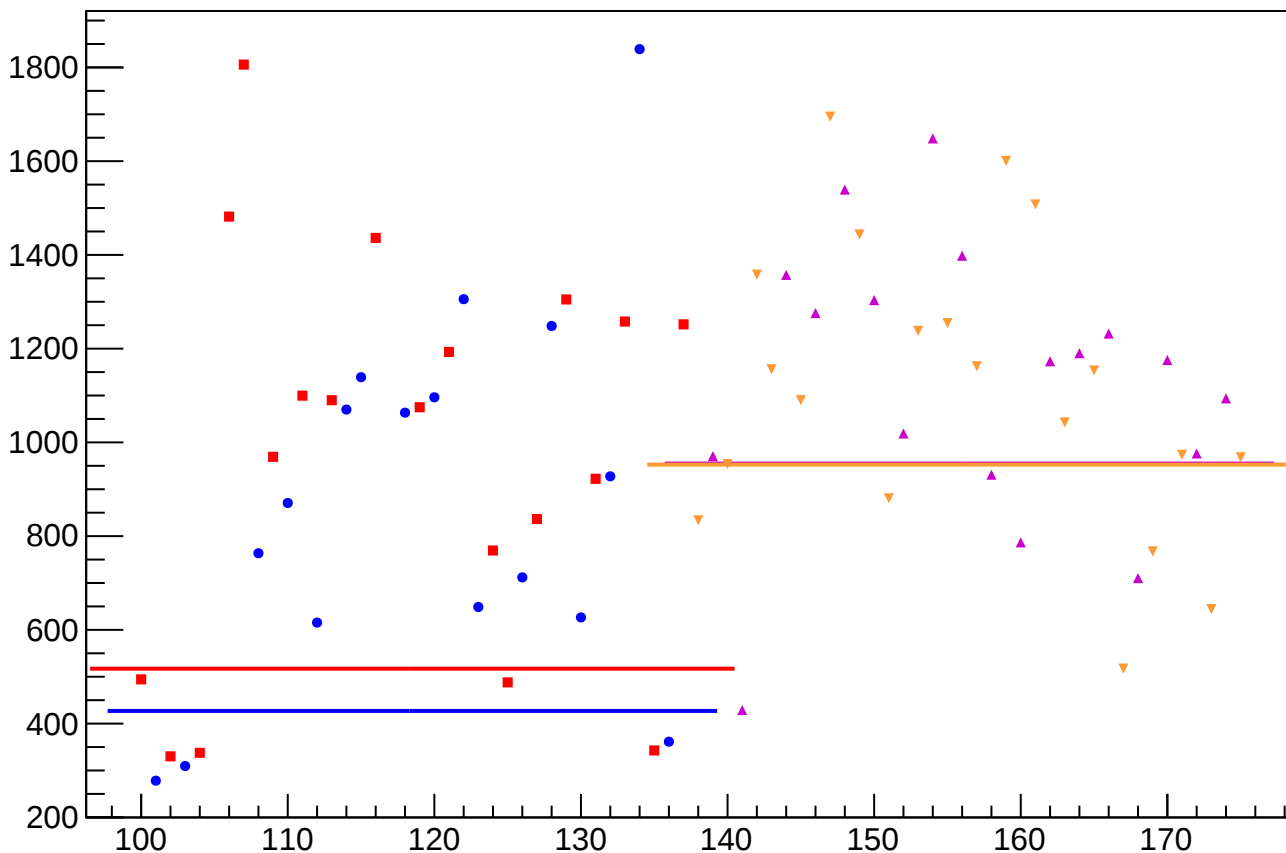
Right: -635.255 $\pm$ 159.106 χ^2 /NDF: 137.2/35

In: -519.520 $\pm$ 170.656 χ^2 /NDF:145.6/34

Out: -21.608 $\pm$ 182.121 χ^2 /NDF:83.0/38

All: -286.729 $\pm$ 124.528 χ^2 /NDF: 232.5/73

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 427.079 ± 0.149 χ^2/NDF : 2865678.7/16

Left Out: 952.606 ± 0.194 χ^2/NDF : 2348787.3/19

Right Out: 517.234 ± 0.172 χ^2/NDF : 3605111.9/18

Left In: 954.840 ± 0.206 χ^2/NDF : 2604323.2/17

Left: 953.655 ± 0.141 χ^2/NDF : 4953172.6/37

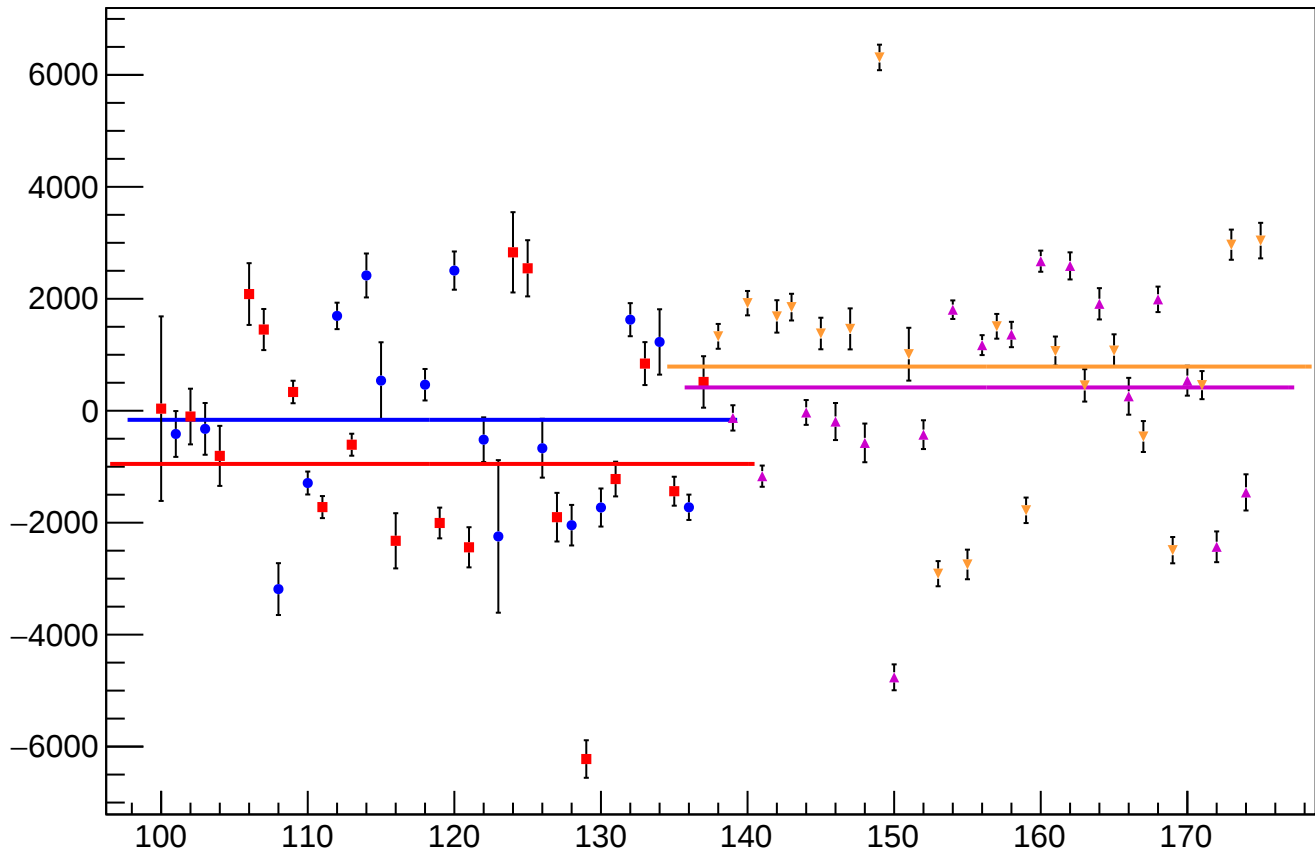
Right: 465.650 ± 0.113 χ^2/NDF : 6627982.5/35

In: 607.438 ± 0.121 χ^2/NDF : 9772868.8/34

Out: 708.561 ± 0.129 χ^2/NDF : 8769397.8/38

All: 654.717 ± 0.088 χ^2/NDF : 18870589.0/73

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -162.333 $\pm$ 82.350 χ^2/NDF : 387.6/16

Left Out: 788.973 $\pm$ 57.947 χ^2/NDF :1580.5/19

Right Out: -950.093 $\pm$ 75.133 χ^2/NDF : 539.8/18

Left In: 416.264 $\pm$ 55.077 χ^2/NDF :1149.6/17

Left: 593.158 $\pm$ 39.921 χ^2/NDF : 2751.8/37

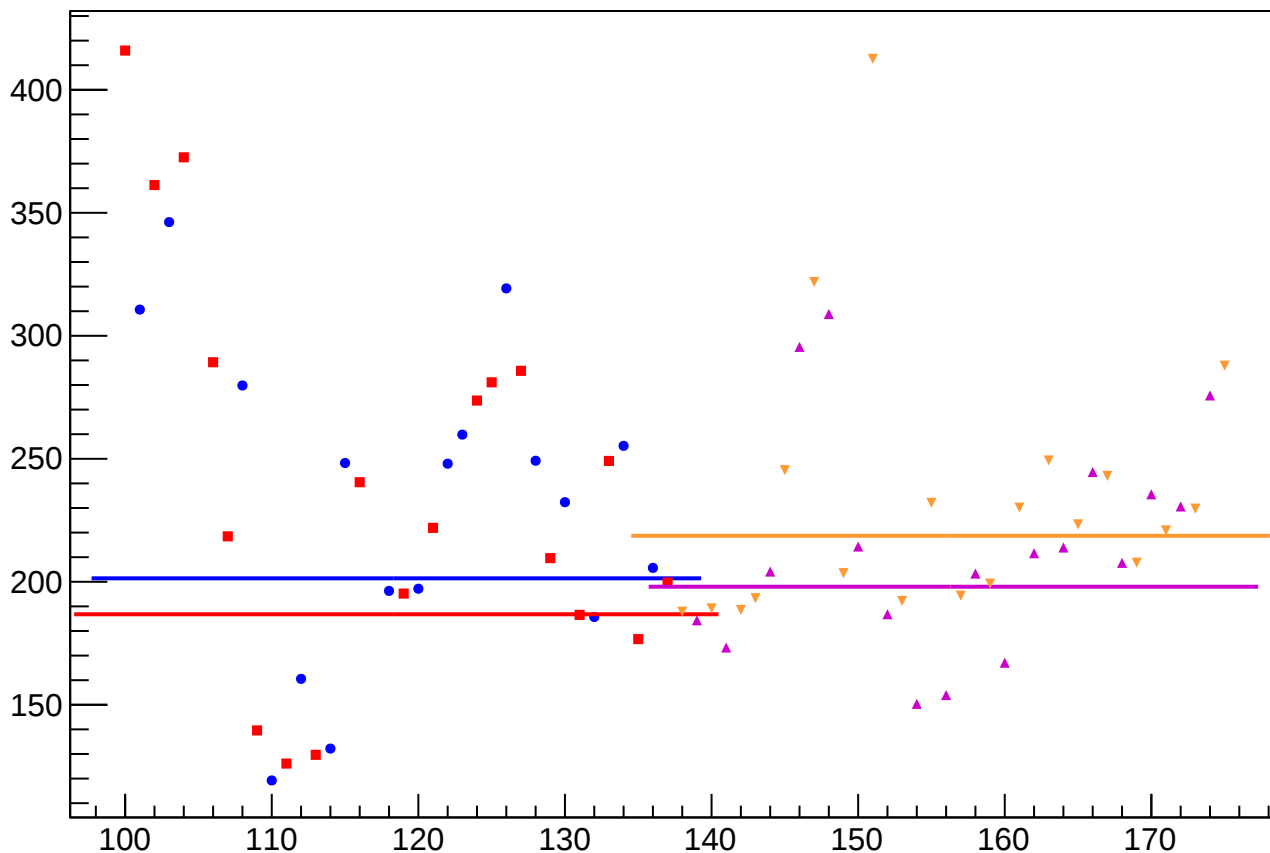
Right: -592.238 $\pm$ 55.504 χ^2/NDF : 977.3/35

In: 237.442 $\pm$ 45.781 χ^2/NDF :1571.2/34

Out: 140.335 $\pm$ 45.885 χ^2/NDF :2456.2/38

All: 188.999 $\pm$ 32.409 χ^2/NDF : 4029.7/73

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.409 $\pm$ 0.058 χ^2 /NDF: 1056022.1/16

Left Out: 218.715 $\pm$ 0.041 χ^2 /NDF: 859528.6/19

Right Out: 186.797 $\pm$ 0.053 χ^2 /NDF: 1393162.0/18

Left In: 197.990 $\pm$ 0.039 χ^2 /NDF: 1017973.5/17

Left: 207.827 $\pm$ 0.028 χ^2 /NDF: 2011914.7/37

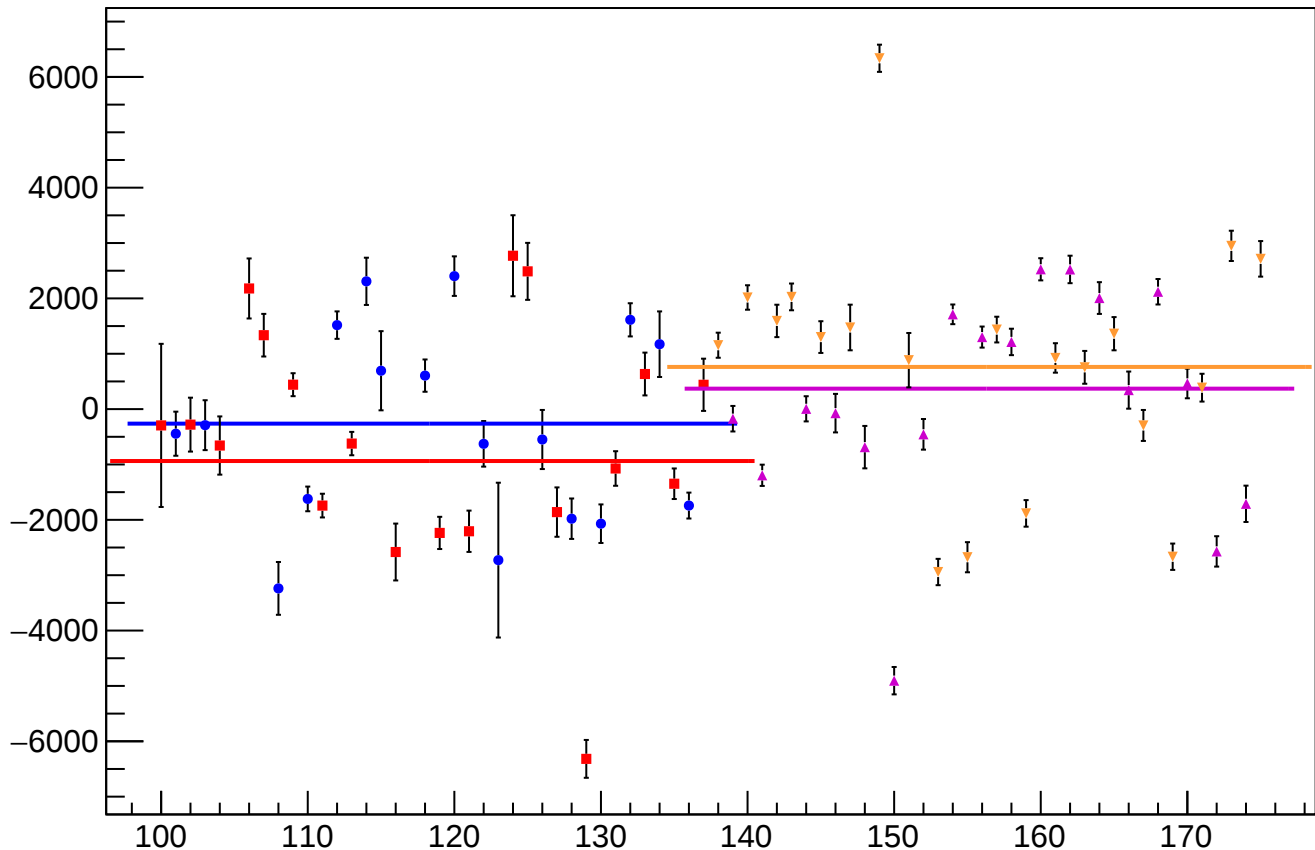
Right: 193.435 $\pm$ 0.039 χ^2 /NDF: 2483546.7/35

In: 199.047 $\pm$ 0.032 χ^2 /NDF: 2076378.0/34

Out: 206.811 $\pm$ 0.032 χ^2 /NDF: 2479005.6/38

All: 202.920 $\pm$ 0.023 χ^2 /NDF: 4584077.4/73

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -262.324+/-85.433 χ^2/NDF : 368.7/16

Left Out: 761.971+/-59.691 χ^2/NDF :1454.3/19

Right Out: -937.678+/-78.434 χ^2/NDF : 521.9/18

Left In: 369.548+/-57.341 χ^2/NDF :1077.3/17

Left: 557.881+/-41.352 χ^2/NDF : 2554.1/37

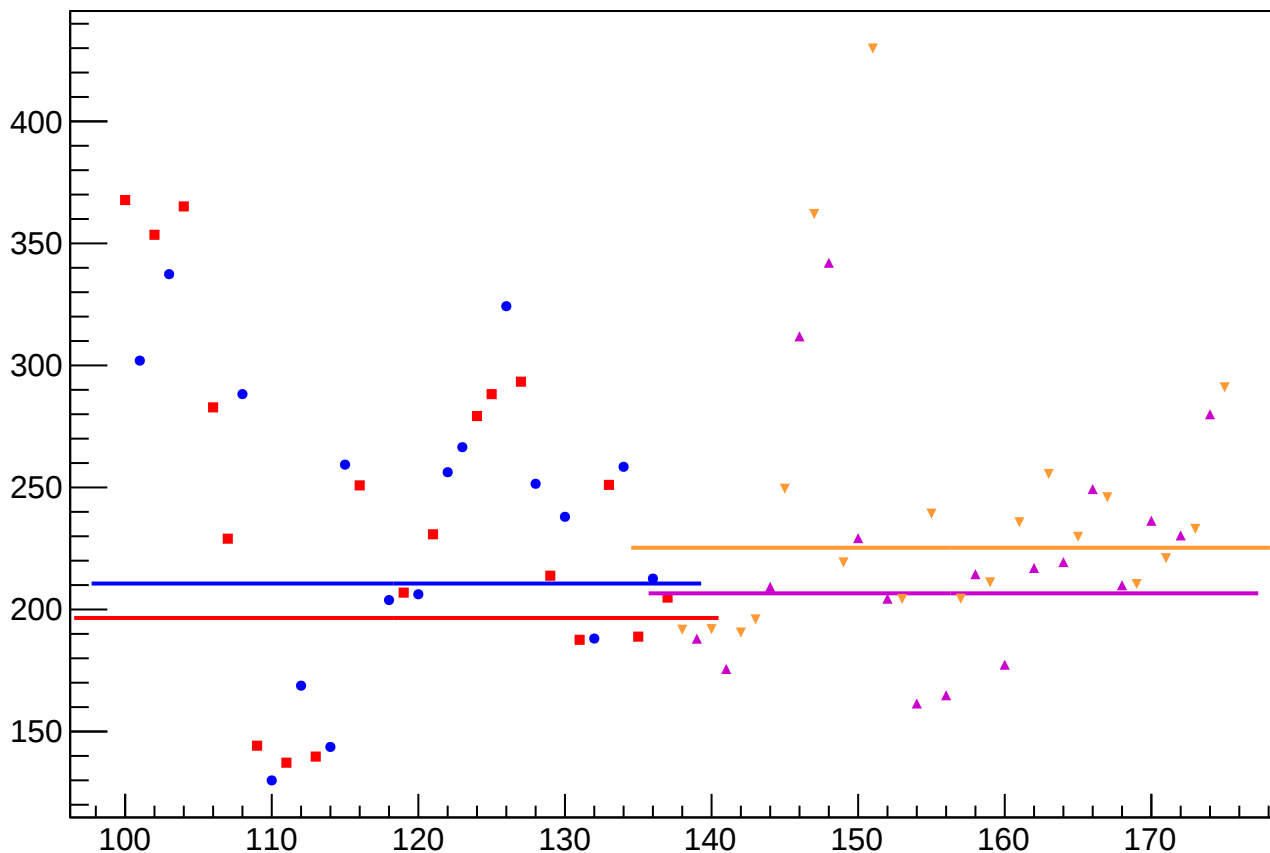
Right: -628.795+/-57.777 χ^2/NDF : 924.5/35

In: 173.305+/-47.611 χ^2/NDF :1483.8/34

Out: 138.606+/-47.500 χ^2/NDF :2273.6/38

All: 155.915+/-33.627 χ^2/NDF : 3757.6/73

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.636+/-0.060 χ^2/NDF : 875776.4/16

Left Out: 225.302+/-0.042 χ^2/NDF : 902544.9/19

Right Out: 196.528+/-0.055 χ^2/NDF : 1205091.0/18

Left In: 206.616+/-0.041 χ^2/NDF : 965204.5/17

Left: 215.584+/-0.029 χ^2/NDF : 1969673.2/37

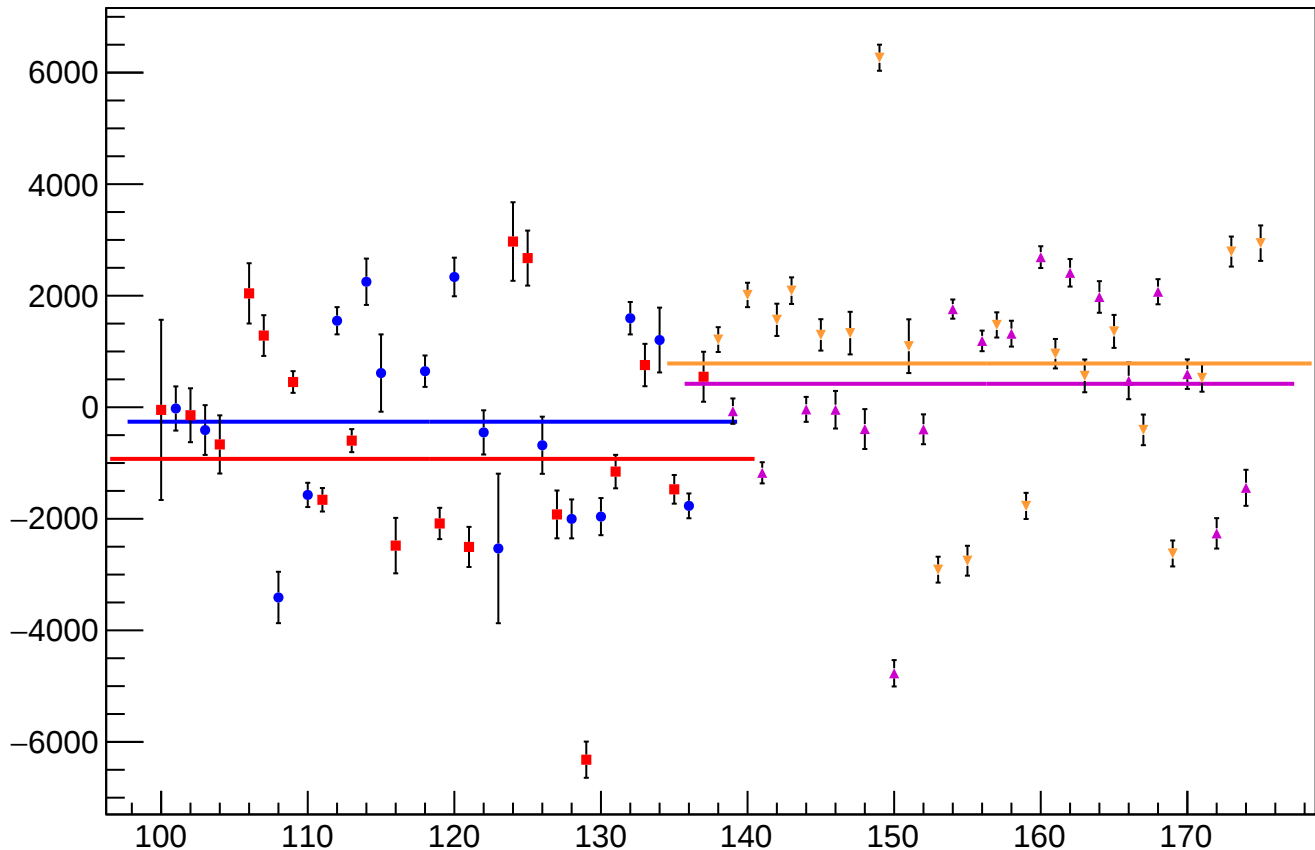
Right: 202.981+/-0.041 χ^2/NDF : 2110460.6/35

In: 207.865+/-0.034 χ^2/NDF : 1844033.0/34

Out: 214.749+/-0.034 χ^2/NDF : 2278076.9/38

All: 211.315+/-0.024 χ^2/NDF : 4143064.6/73

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -259.139+/-82.802 χ^2/NDF : 391.2/16

Left Out: 784.737+/-58.512 χ^2/NDF :1524.0/19

Right Out: -925.534+/-75.503 χ^2/NDF : 581.9/18

Left In: 420.485+/-56.027 χ^2/NDF :1085.5/17

Left: 594.713+/-40.467 χ^2/NDF : 2629.8/37

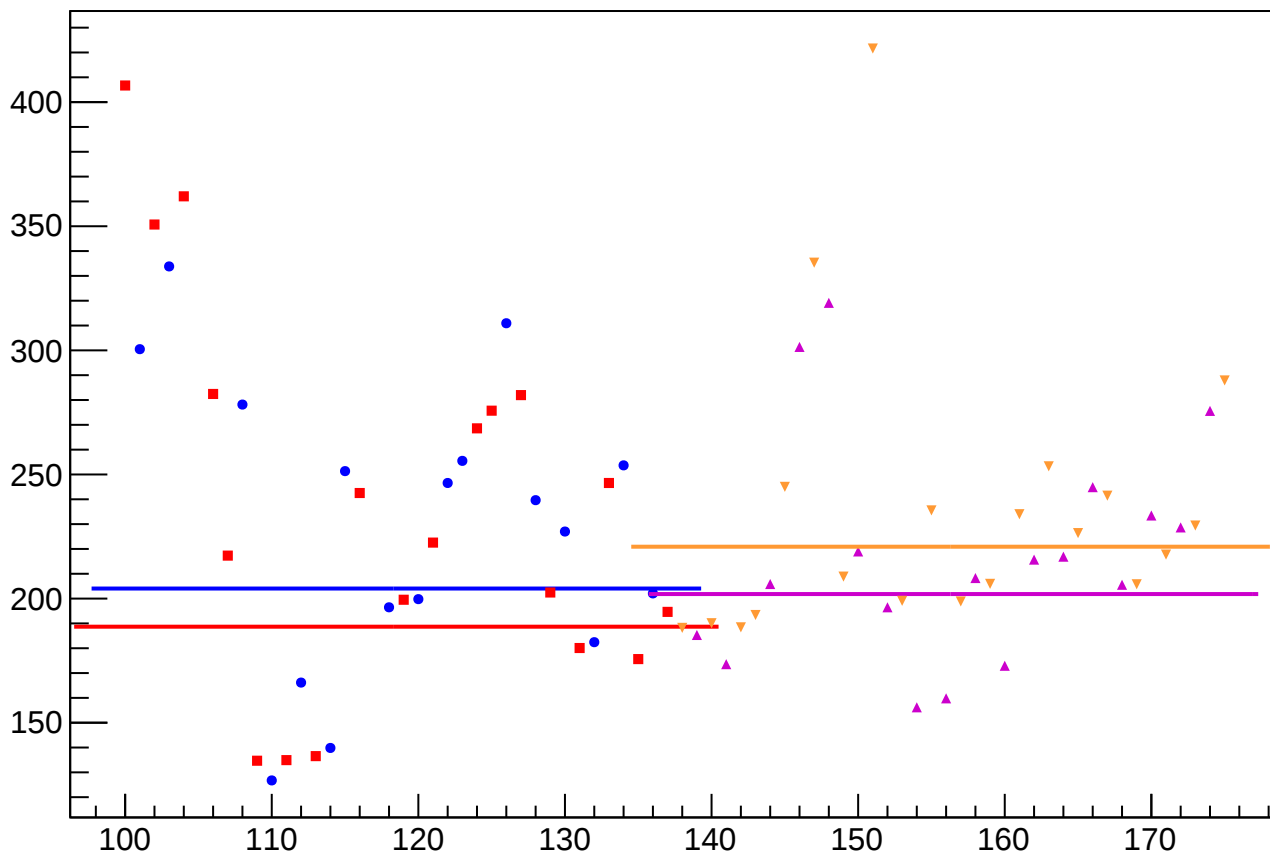
Right: -622.995+/-55.791 χ^2/NDF : 1008.5/35

In: 207.045+/-46.403 χ^2/NDF :1523.0/34

Out: 143.011+/-46.250 χ^2/NDF :2426.5/38

All: 174.922+/-32.757 χ^2/NDF : 3950.4/73

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.051+/-0.059 χ^2/NDF : 868423.0/16

Left Out: 220.903+/-0.041 χ^2/NDF : 872700.1/19

Right Out: 188.681+/-0.053 χ^2/NDF : 1251107.4/18

Left In: 201.828+/-0.040 χ^2/NDF : 945434.2/17

Left: 210.952+/-0.029 χ^2/NDF : 1929017.7/37

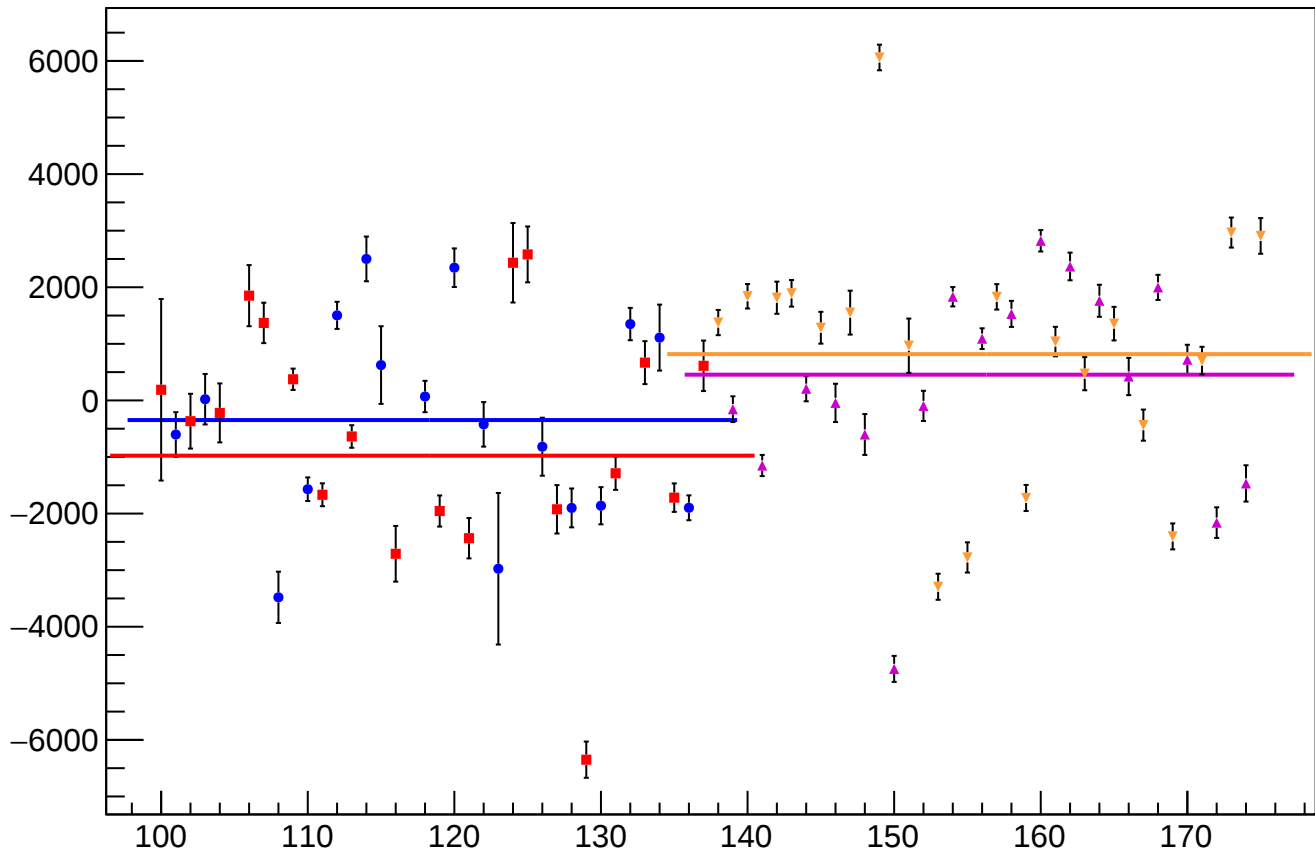
Right: 195.659+/-0.039 χ^2/NDF : 2157160.3/35

In: 202.526+/-0.033 χ^2/NDF : 1814846.3/34

Out: 208.812+/-0.033 χ^2/NDF : 2351387.4/38

All: 205.680+/-0.023 χ^2/NDF : 4184646.5/73

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.240±/81.318 χ^2/NDF : 399.1/16

Left Out: 818.001±/57.965 χ^2/NDF :1578.6/19

Right Out: -976.286±/73.889 χ^2/NDF : 585.7/18

Left In: 455.002±/55.496 χ^2/NDF :1123.7/17

Left: 628.608±/40.086 χ^2/NDF : 2722.7/37

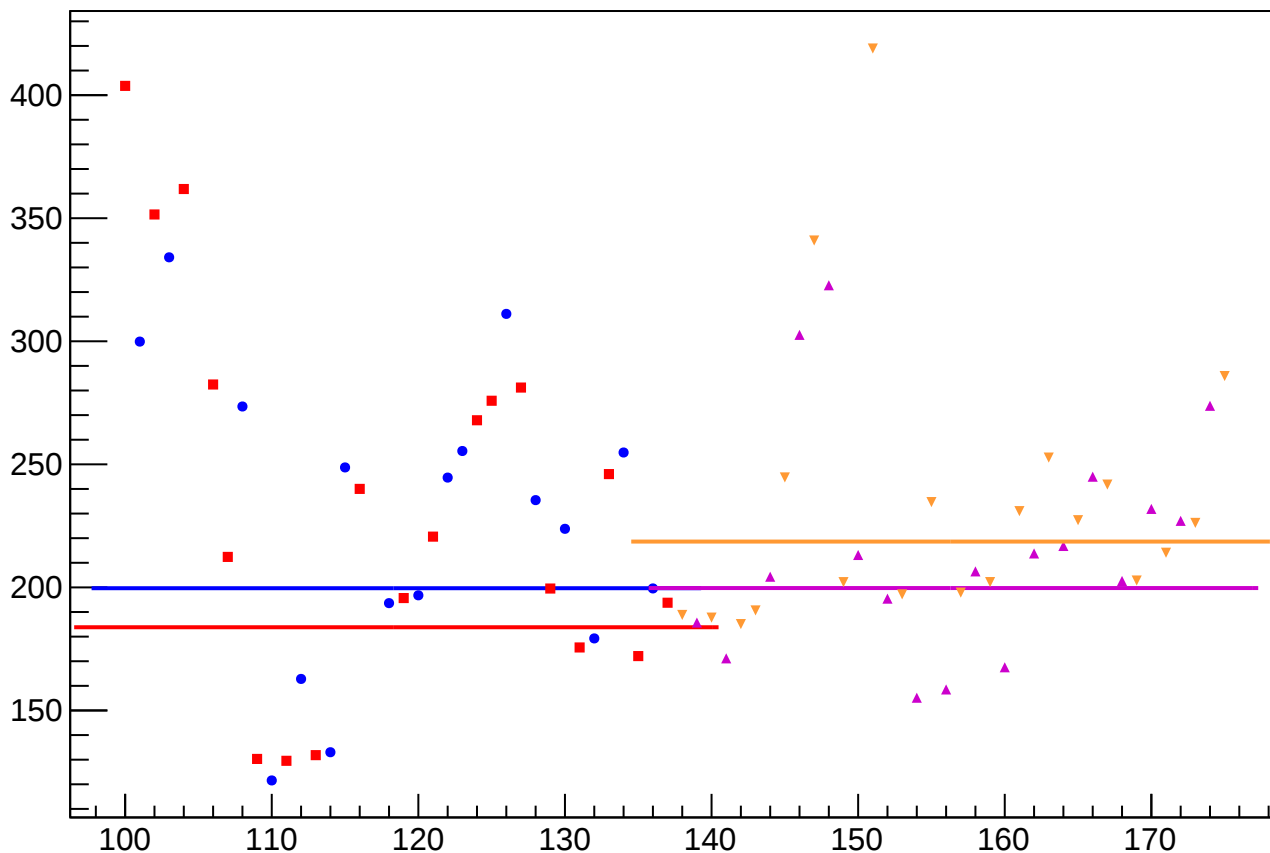
Right: -691.802±/54.685 χ^2/NDF : 1017.5/35

In: 200.083±/45.839 χ^2/NDF :1589.1/34

Out: 134.439±/45.606 χ^2/NDF :2529.3/38

All: 167.094±/32.330 χ^2/NDF : 4119.5/73

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.669 $\pm$ 0.058 χ^2 /NDF: 943155.1/16

Left Out: 218.622 $\pm$ 0.041 χ^2 /NDF: 910482.5/19

Right Out: 183.808 $\pm$ 0.052 χ^2 /NDF: 1349625.1/18

Left In: 199.734 $\pm$ 0.039 χ^2 /NDF: 984359.8/17

Left: 208.767 $\pm$ 0.028 χ^2 /NDF: 2005648.1/37

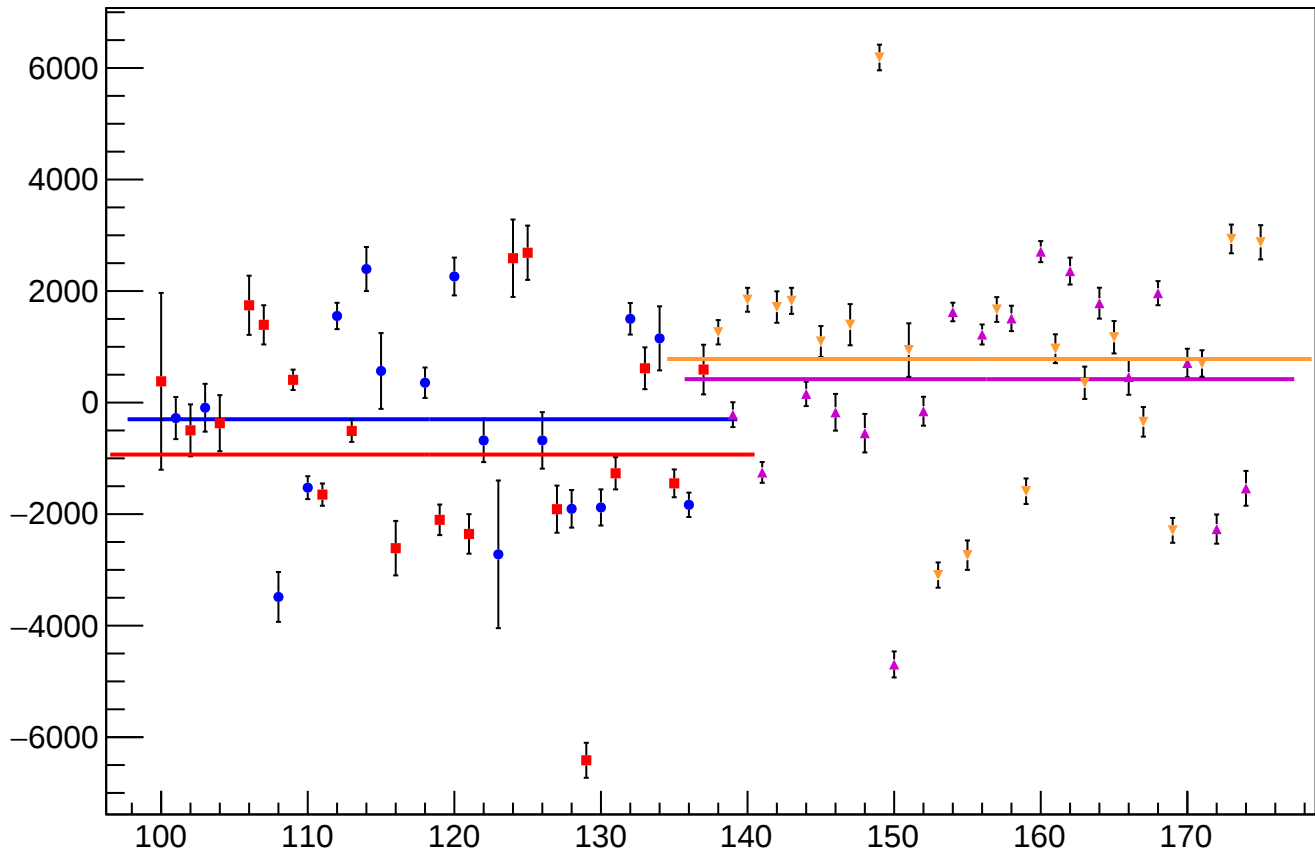
Right: 190.981 $\pm$ 0.039 χ^2 /NDF: 2334457.4/35

In: 199.713 $\pm$ 0.032 χ^2 /NDF: 1927515.8/34

Out: 205.359 $\pm$ 0.032 χ^2 /NDF: 2534955.8/38

All: 202.551 $\pm$ 0.023 χ^2 /NDF: 4477721.0/73

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -298.963 ± 80.162 χ^2/NDF : 406.6/16

Left Out: 781.683 ± 57.102 χ^2/NDF : 1538.4/19

Right Out: -931.843 ± 72.751 χ^2/NDF : 614.8/18

Left In: 420.274 ± 54.509 χ^2/NDF : 1112.9/17

Left: 592.586 ± 39.429 χ^2/NDF : 2672.3/37

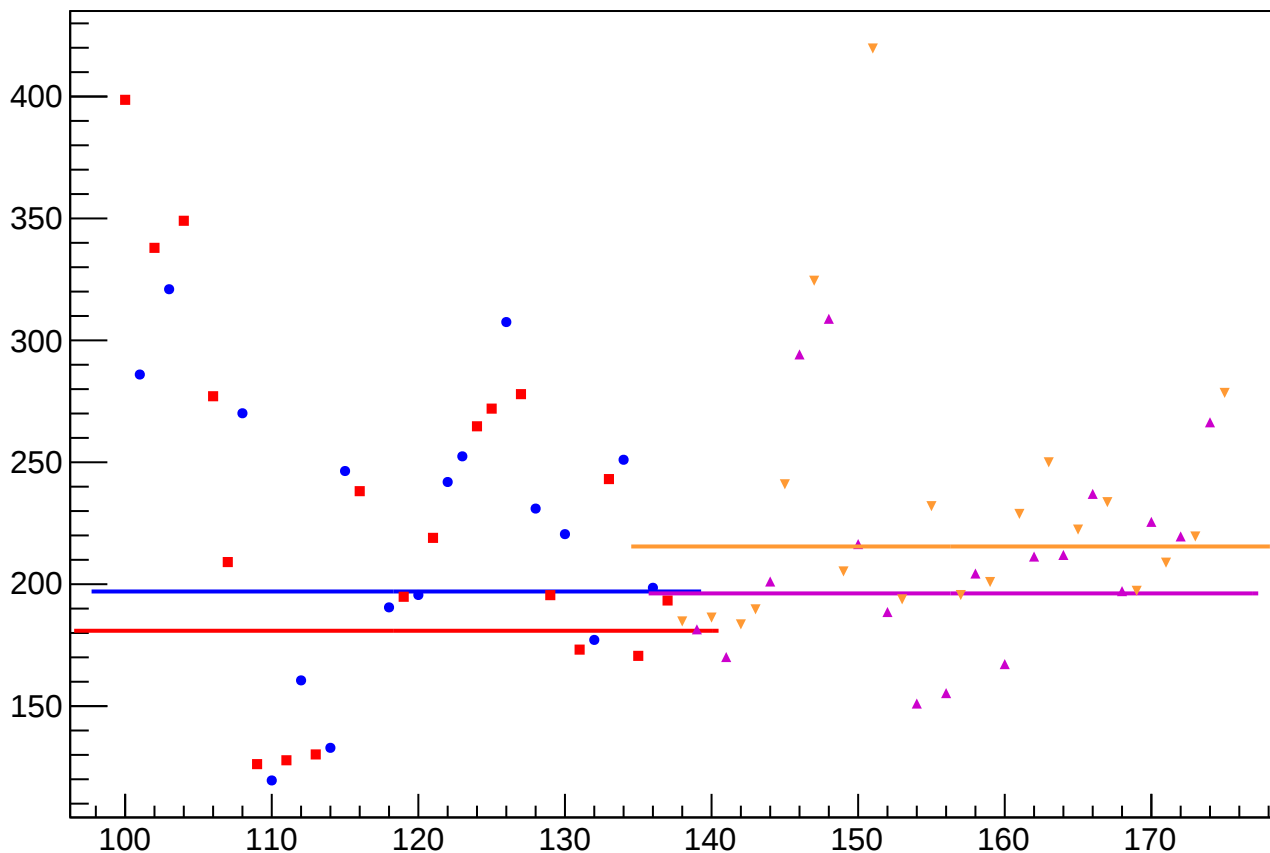
Right: -646.004 ± 53.873 χ^2/NDF : 1055.6/35

In: 192.861 ± 45.075 χ^2/NDF : 1574.6/34

Out: 128.458 ± 44.918 χ^2/NDF : 2496.5/38

All: 160.547 ± 31.817 χ^2/NDF : 4072.1/73

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.013+/-0.057 χ^2/NDF : 911923.5/16

Left Out: 215.470+/-0.040 χ^2/NDF : 877293.9/19

Right Out: 180.906+/-0.051 χ^2/NDF : 1345685.7/18

Left In: 196.225+/-0.039 χ^2/NDF : 945820.0/17

Left: 205.400+/-0.028 χ^2/NDF : 1941984.0/37

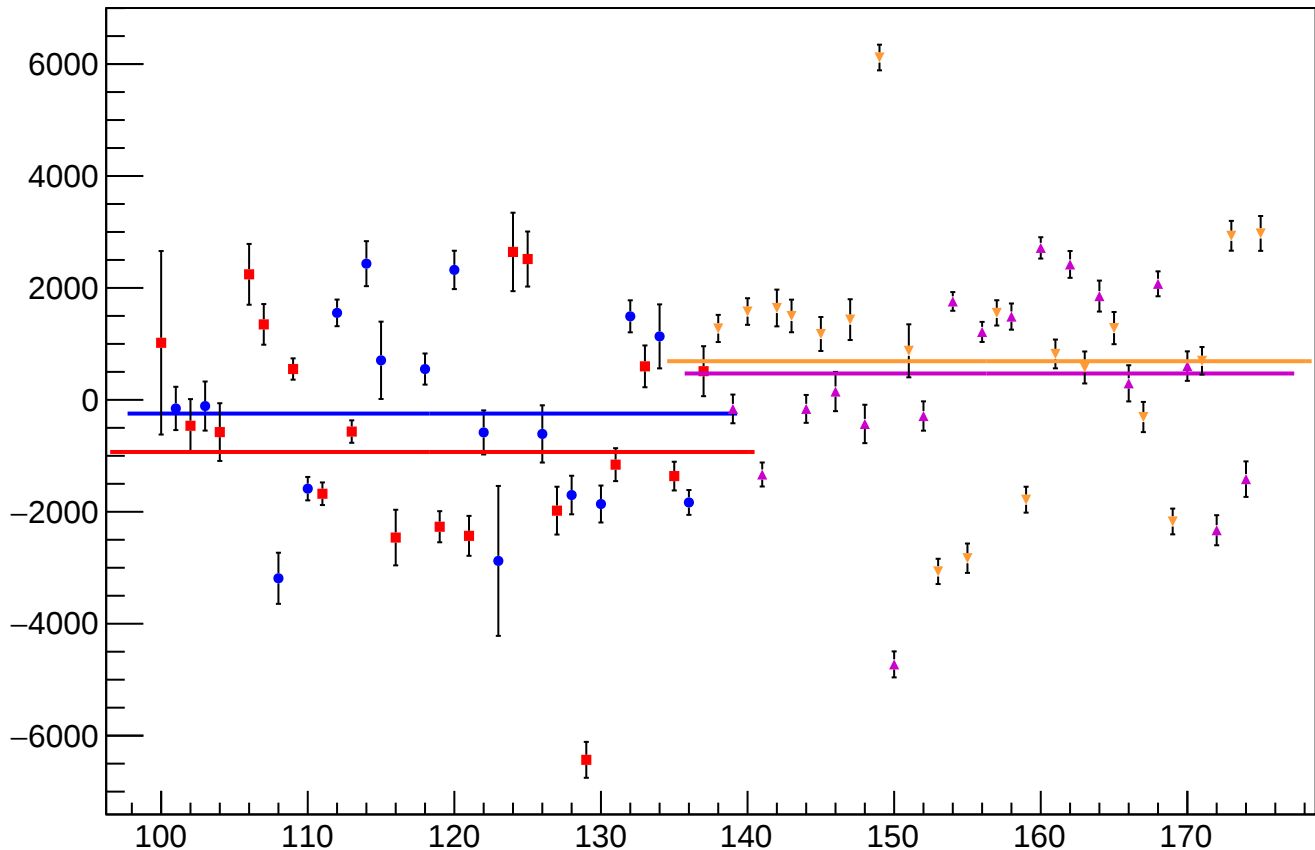
Right: 188.181+/-0.038 χ^2/NDF : 2301888.8/35

In: 196.474+/-0.032 χ^2/NDF : 1857876.0/34

Out: 202.294+/-0.032 χ^2/NDF : 2502328.5/38

All: 199.394+/-0.022 χ^2/NDF : 4376932.7/73

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -244.925 ± 81.395 χ^2/NDF : 391.4/16

Left Out: 690.778 ± 59.451 χ^2/NDF : 1485.3/19

Right Out: -931.272 ± 74.206 χ^2/NDF : 609.7/18

Left In: 471.253 ± 56.446 χ^2/NDF : 1121.3/17

Left: 575.327 ± 40.934 χ^2/NDF : 2613.8/37

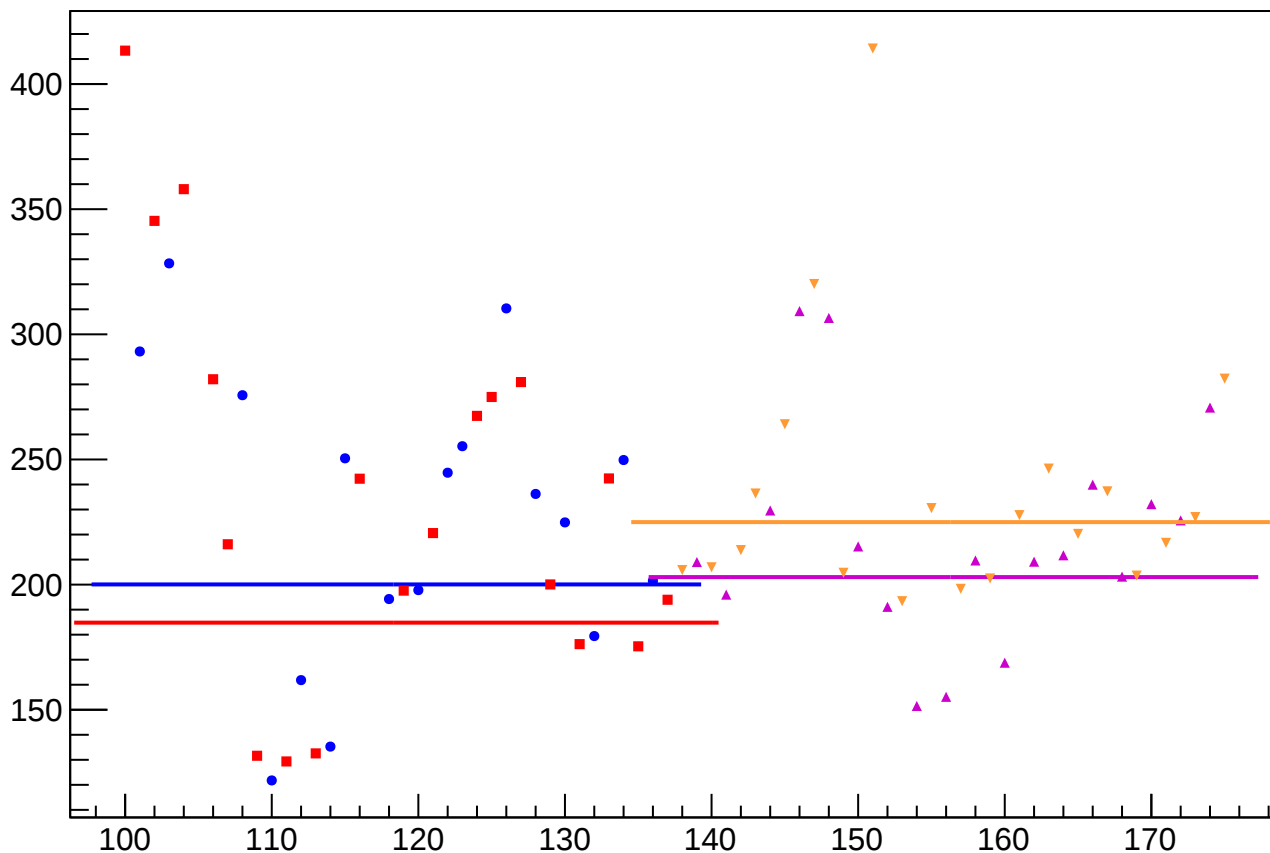
Right: -619.742 ± 54.837 χ^2/NDF : 1040.0/35

In: 238.680 ± 46.384 χ^2/NDF : 1565.0/34

Out: 56.662 ± 46.397 χ^2/NDF : 2386.1/38

All: 147.697 ± 32.803 χ^2/NDF : 3958.7/73

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.078+/-0.058 χ^2/NDF : 918309.2/16

Left Out: 224.973+/-0.042 χ^2/NDF : 723970.2/19

Right Out: 184.807+/-0.052 χ^2/NDF : 1318267.6/18

Left In: 203.005+/-0.040 χ^2/NDF : 958815.9/17

Left: 213.420+/-0.029 χ^2/NDF : 1826402.3/37

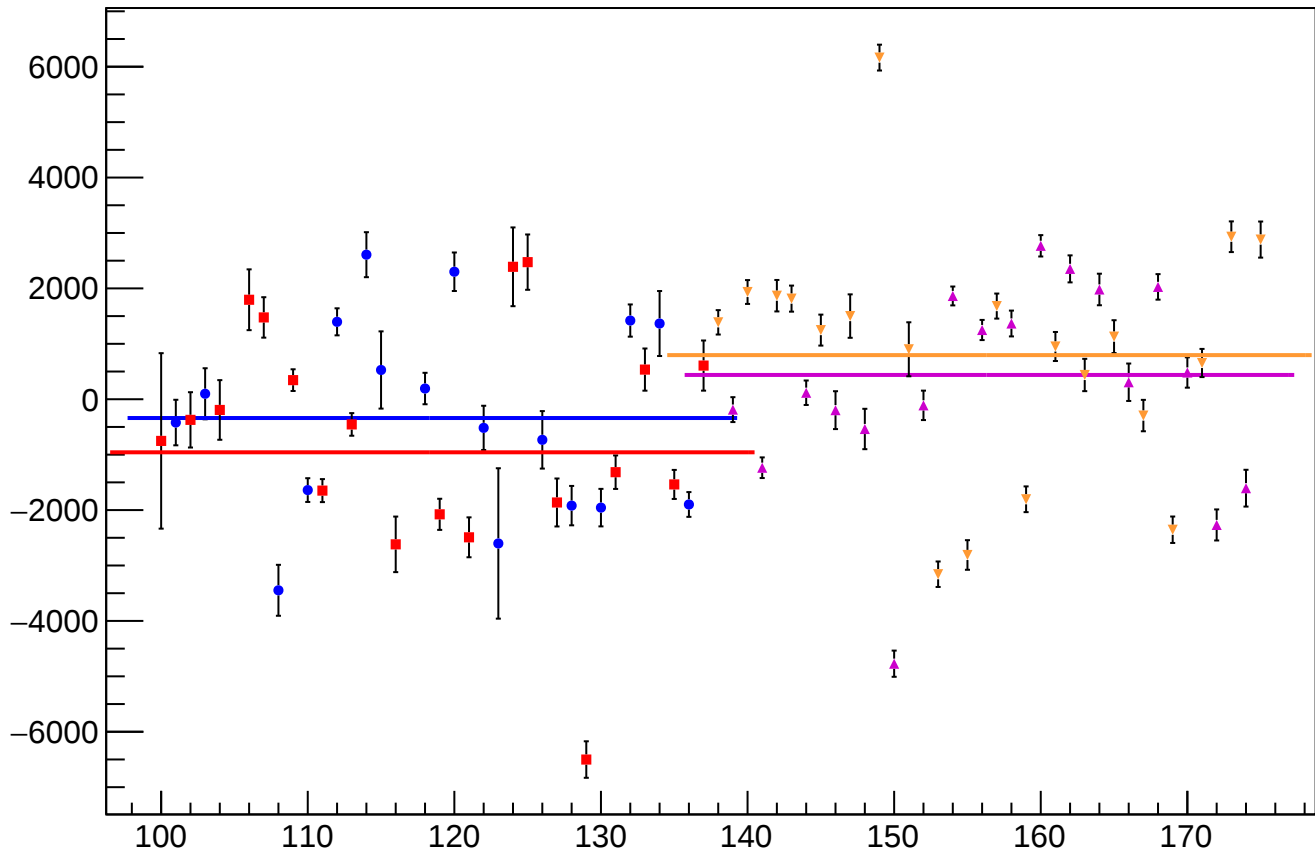
Right: 191.739+/-0.039 χ^2/NDF : 2275022.2/35

In: 202.055+/-0.033 χ^2/NDF : 1878871.3/34

Out: 209.271+/-0.033 χ^2/NDF : 2399123.7/38

All: 205.662+/-0.023 χ^2/NDF : 4302191.9/73

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -338.966+/-83.123 χ^2/NDF : 389.5/16

Left Out: 796.138+/-58.584 χ^2/NDF :1515.6/19

Right Out: -957.615+/-75.749 χ^2/NDF : 570.3/18

Left In: 438.261+/-55.963 χ^2/NDF :1113.2/17

Left: 609.015+/-40.466 χ^2/NDF : 2648.3/37

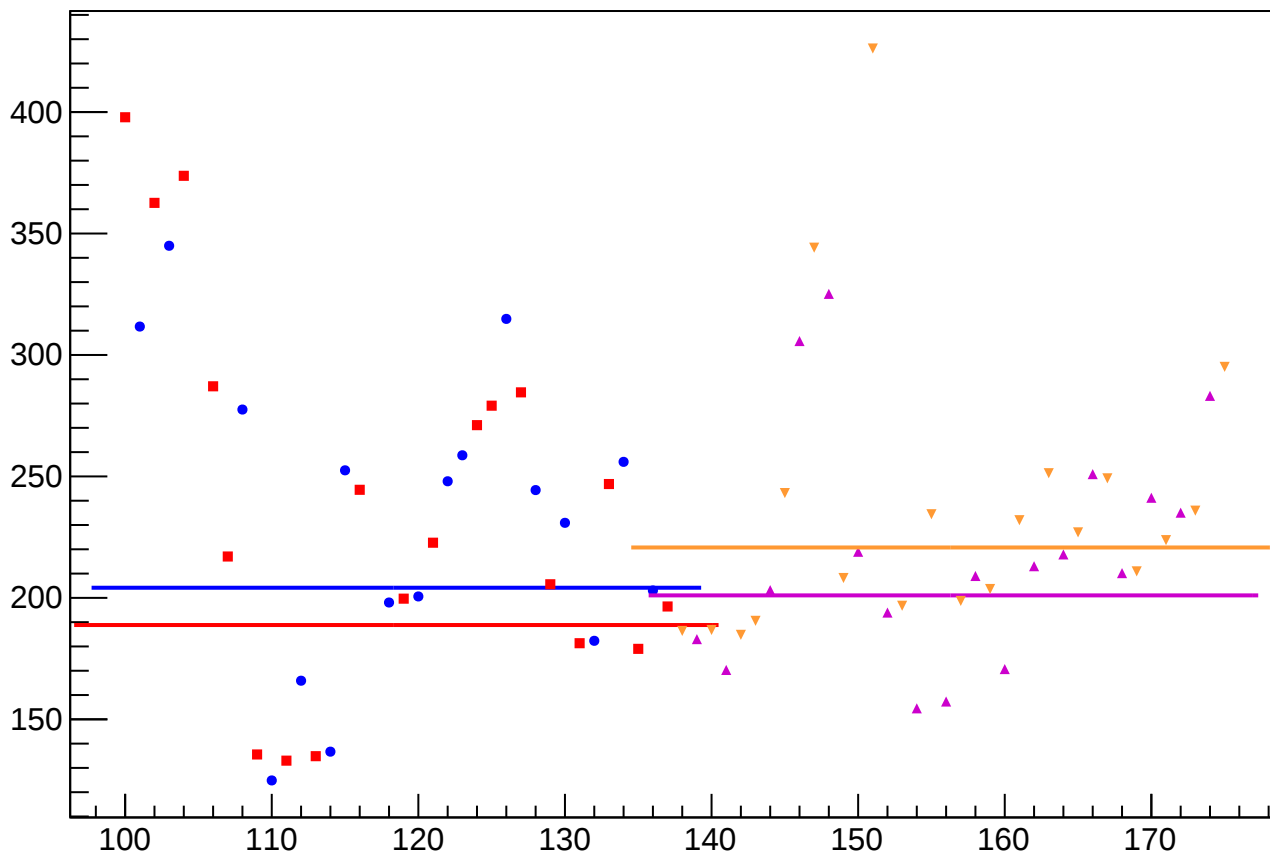
Right: -676.943+/-55.988 χ^2/NDF : 990.0/35

In: 195.845+/-46.422 χ^2/NDF :1562.8/34

Out: 139.758+/-46.341 χ^2/NDF :2421.3/38

All: 167.753+/-32.797 χ^2/NDF : 3984.8/73

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.175+/-0.059 χ^2/NDF : 947438.5/16

Left Out: 220.749+/-0.041 χ^2/NDF : 953604.5/19

Right Out: 188.821+/-0.054 χ^2/NDF : 1314891.2/18

Left In: 201.025+/-0.040 χ^2/NDF : 1070573.0/17

Left: 210.436+/-0.029 χ^2/NDF : 2142715.8/37

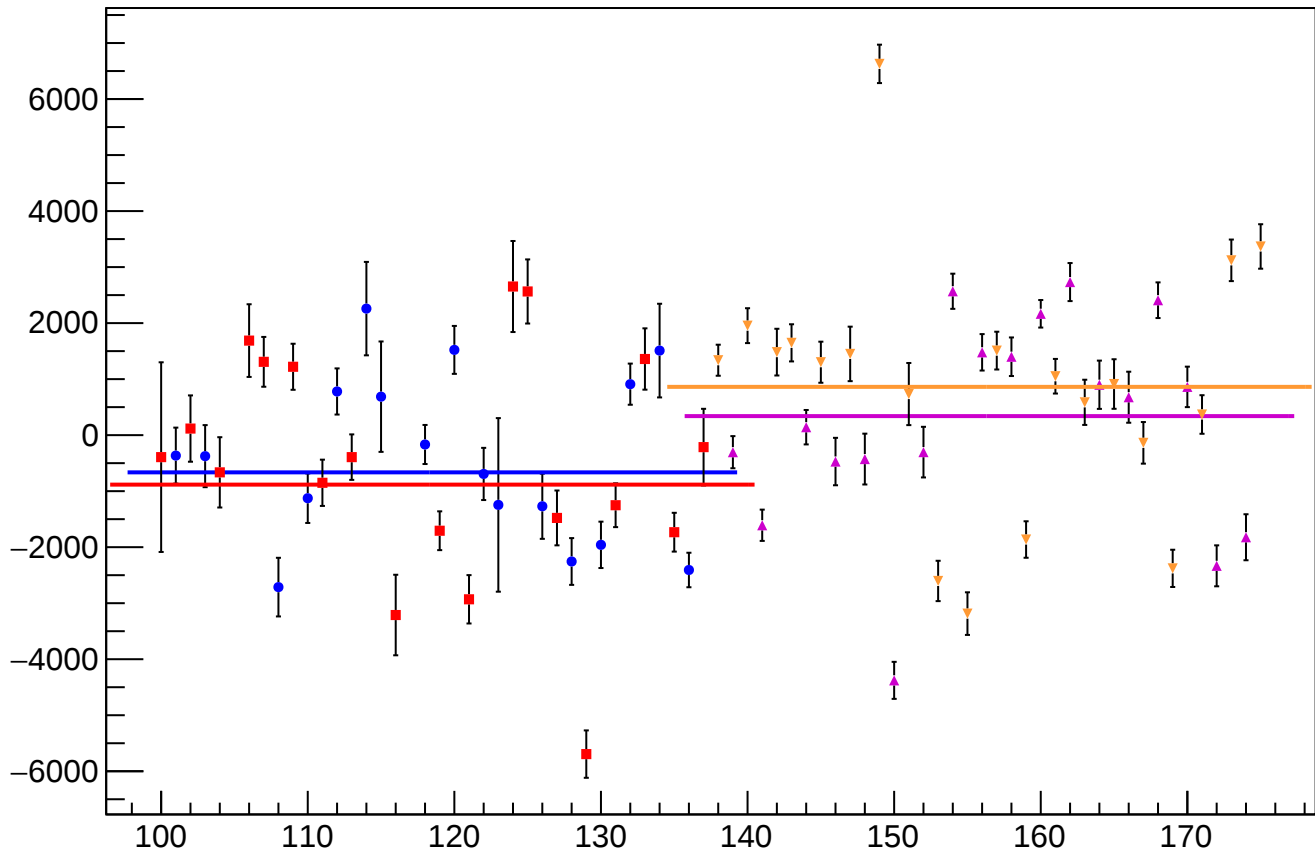
Right: 195.787+/-0.040 χ^2/NDF : 2299610.3/35

In: 202.008+/-0.033 χ^2/NDF : 2019987.5/34

Out: 208.799+/-0.033 χ^2/NDF : 2490835.9/38

All: 205.409+/-0.023 χ^2/NDF : 4532265.2/73

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -664.383+/-113.949 χ^2/NDF : 154.3/16

Left Out: 861.983+/-80.445 χ^2/NDF : 770.4/19

Right Out: -883.255+/-110.875 χ^2/NDF : 320.1/18

Left In: 339.935+/-80.459 χ^2/NDF : 571.2/17

Left: 601.005+/-56.888 χ^2/NDF : 1362.7/37

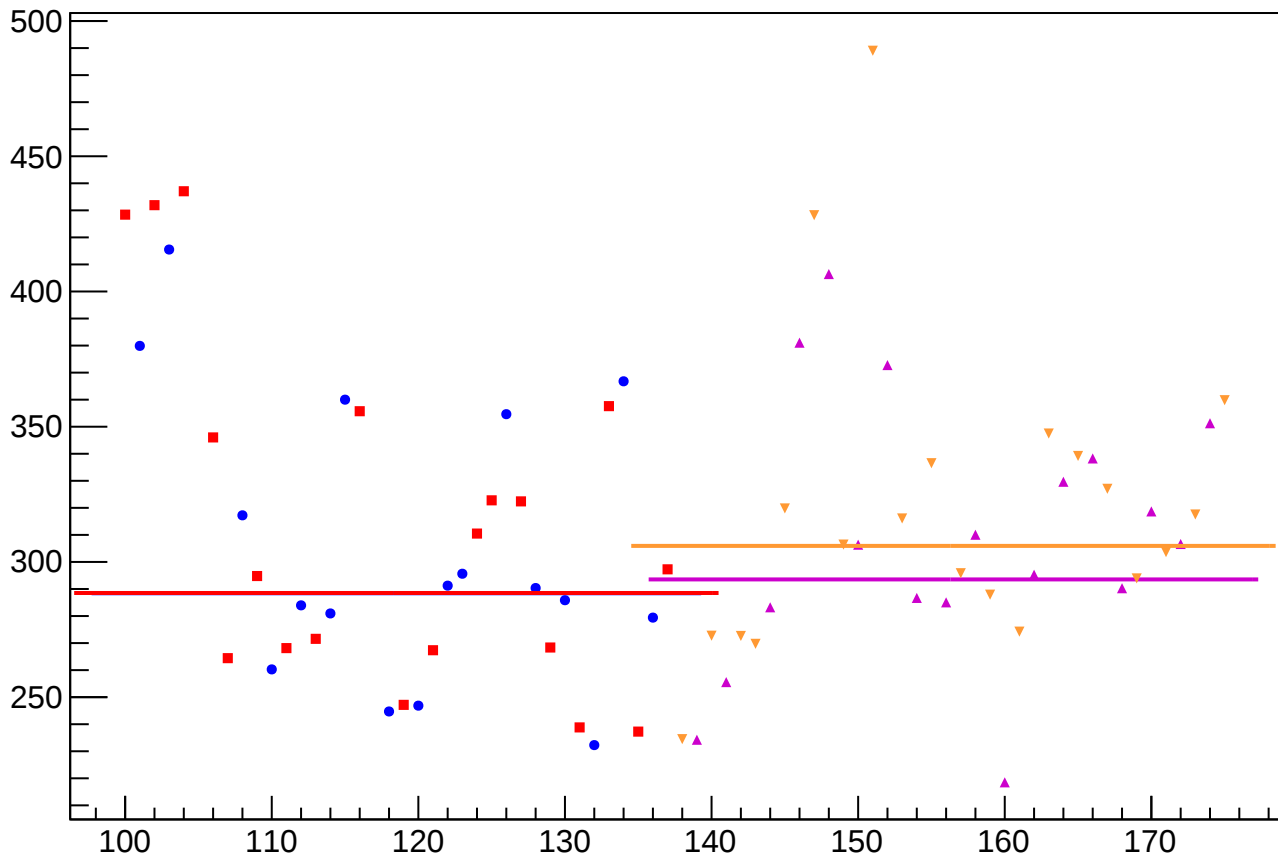
Right: -776.811+/-79.465 χ^2/NDF : 476.3/35

In: 5.797+/-65.726 χ^2/NDF : 777.4/34

Out: 260.097+/-65.112 χ^2/NDF : 1252.8/38

All: 134.140+/-46.257 χ^2/NDF : 2037.7/73

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.428+/-0.081 χ^2/NDF : 339820.0/16

Left Out: 305.935+/-0.057 χ^2/NDF : 663657.6/19

Right Out: 288.522+/-0.078 χ^2/NDF : 455410.1/18

Left In: 293.538+/-0.057 χ^2/NDF : 677109.3/17

Left: 299.737+/-0.040 χ^2/NDF : 1364511.9/37

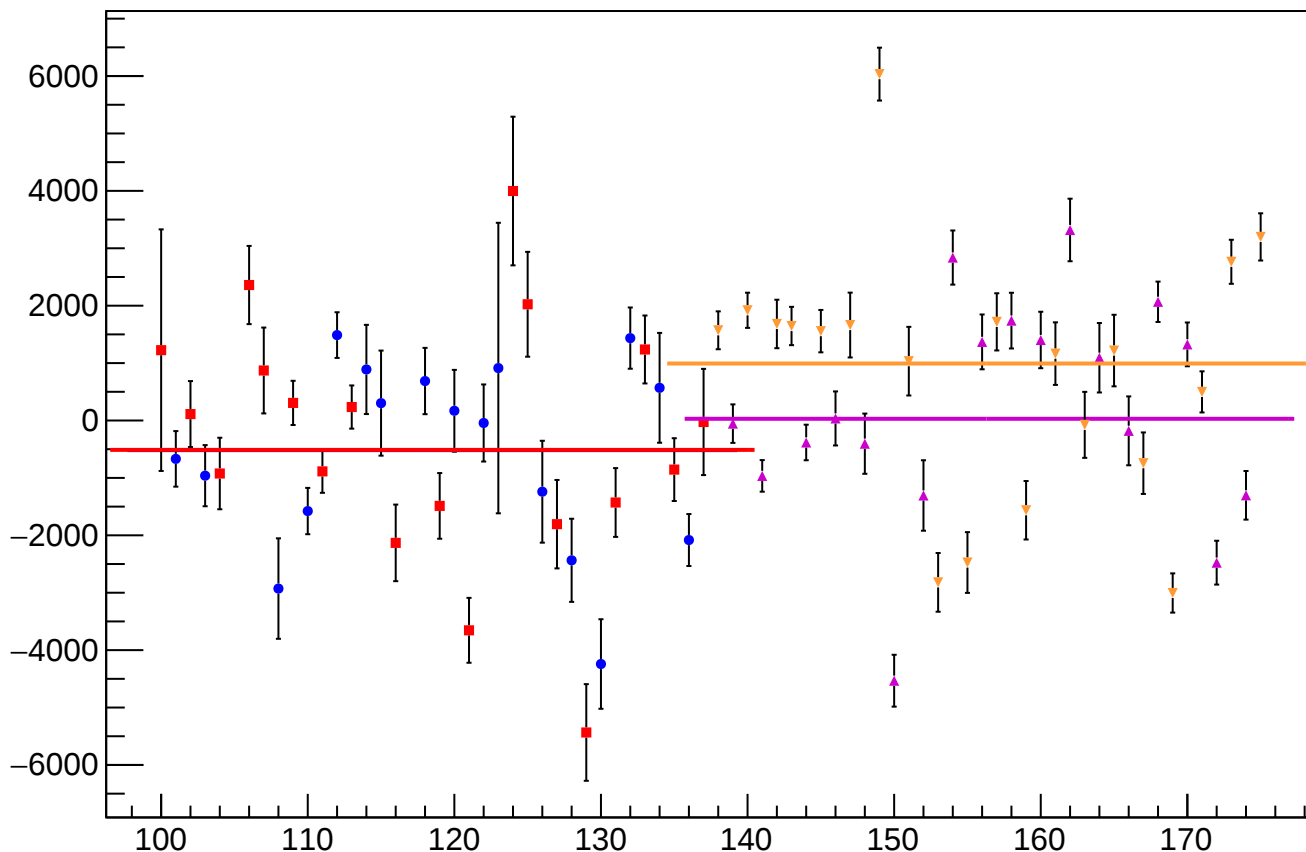
Right: 288.476+/-0.056 χ^2/NDF : 795230.9/35

In: 291.838+/-0.046 χ^2/NDF : 1019612.7/34

Out: 299.930+/-0.046 χ^2/NDF : 1151384.3/38

All: 295.922+/-0.033 χ^2/NDF : 2186296.7/73

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -515.894 ± 147.326 $\chi^2/\text{NDF}: 108.0/16$

Left Out: 992.774 ± 95.679 $\chi^2/\text{NDF}: 471.1/19$

Right Out: -511.851 ± 135.798 $\chi^2/\text{NDF}: 141.3/18$

Left In: 29.800 ± 99.125 $\chi^2/\text{NDF}: 323.7/17$

Left: 528.318 ± 68.841 $\chi^2/\text{NDF}: 843.7/37$

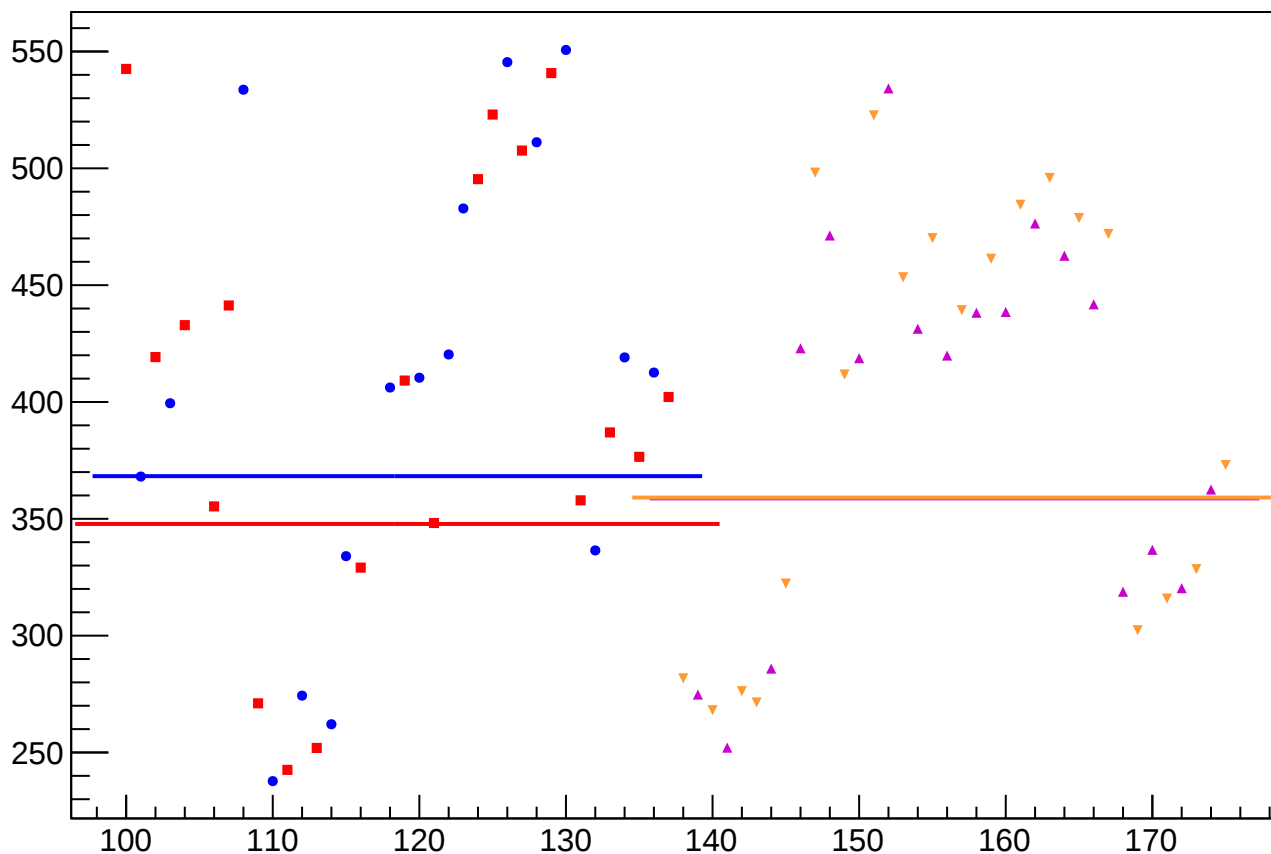
Right: -513.708 ± 99.851 $\chi^2/\text{NDF}: 249.3/35$

In: -140.252 ± 82.243 $\chi^2/\text{NDF}: 441.2/34$

Out: 493.637 ± 78.215 $\chi^2/\text{NDF}: 694.5/38$

All: 192.593 ± 56.677 $\chi^2/\text{NDF}: 1166.8/73$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.264+/-0.104 χ^2/NDF : 770116.6/16

Left Out: 359.106+/-0.068 χ^2/NDF : 1587885.0/19

Right Out: 347.802+/-0.096 χ^2/NDF : 821862.5/18

Left In: 358.755+/-0.070 χ^2/NDF : 1294430.2/17

Left: 358.936+/-0.049 χ^2/NDF : 2882328.2/37

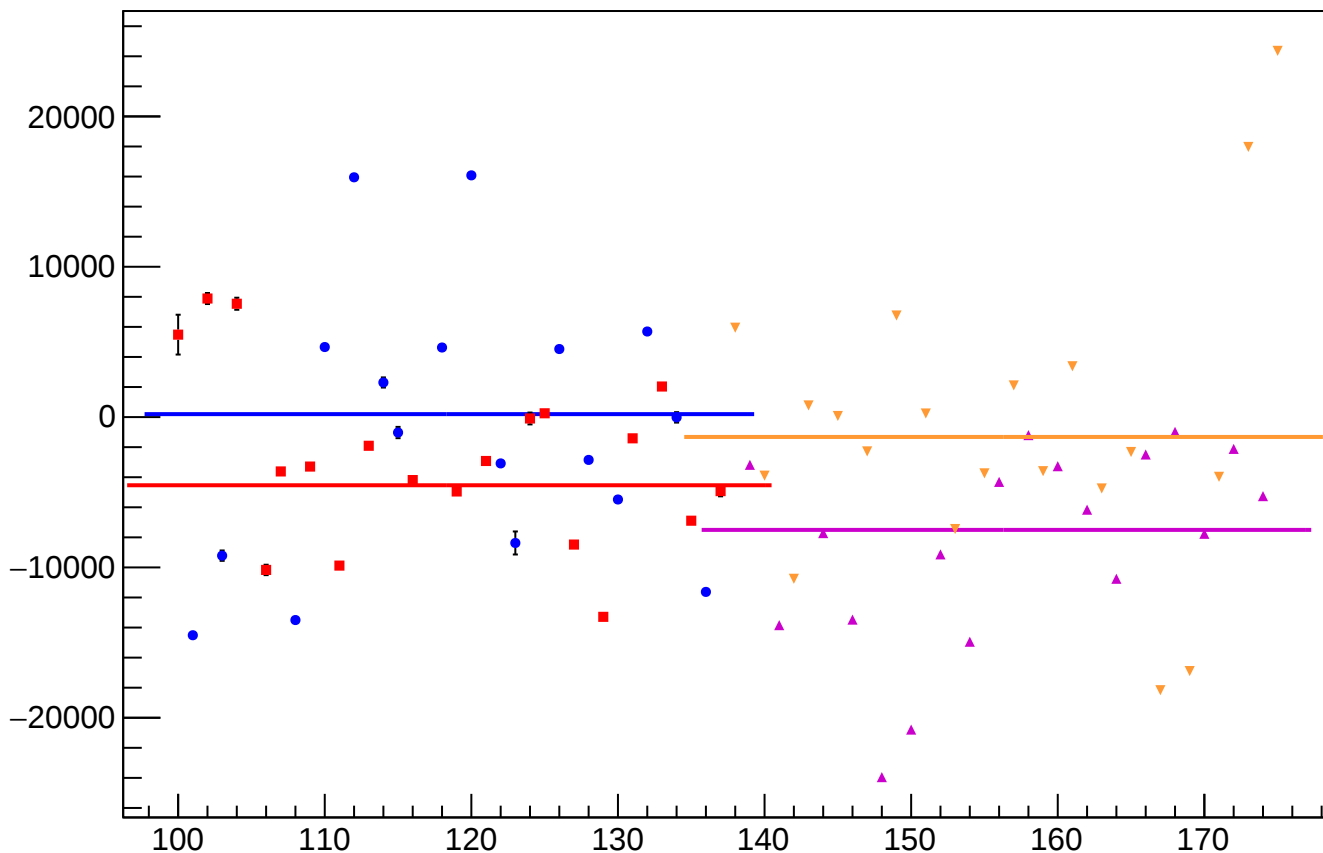
Right: 357.201+/-0.071 χ^2/NDF : 1612837.5/35

In: 361.718+/-0.058 χ^2/NDF : 2070282.7/34

Out: 355.356+/-0.055 χ^2/NDF : 2419008.0/38

All: 358.377+/-0.040 χ^2/NDF : 4495575.0/73

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 197.008 ± 54.799 $\chi^2/\text{NDF}: 30658.3/16$

Left Out: -1321.016 ± 44.909 $\chi^2/\text{NDF}: 45094.8/19$

Right Out: -4534.200 ± 52.462 $\chi^2/\text{NDF}: 7477.2/18$

Left In: -7503.576 ± 47.096 $\chi^2/\text{NDF}: 17289.1/17$

Left: -4265.431 ± 32.501 $\chi^2/\text{NDF}: 71410.1/37$

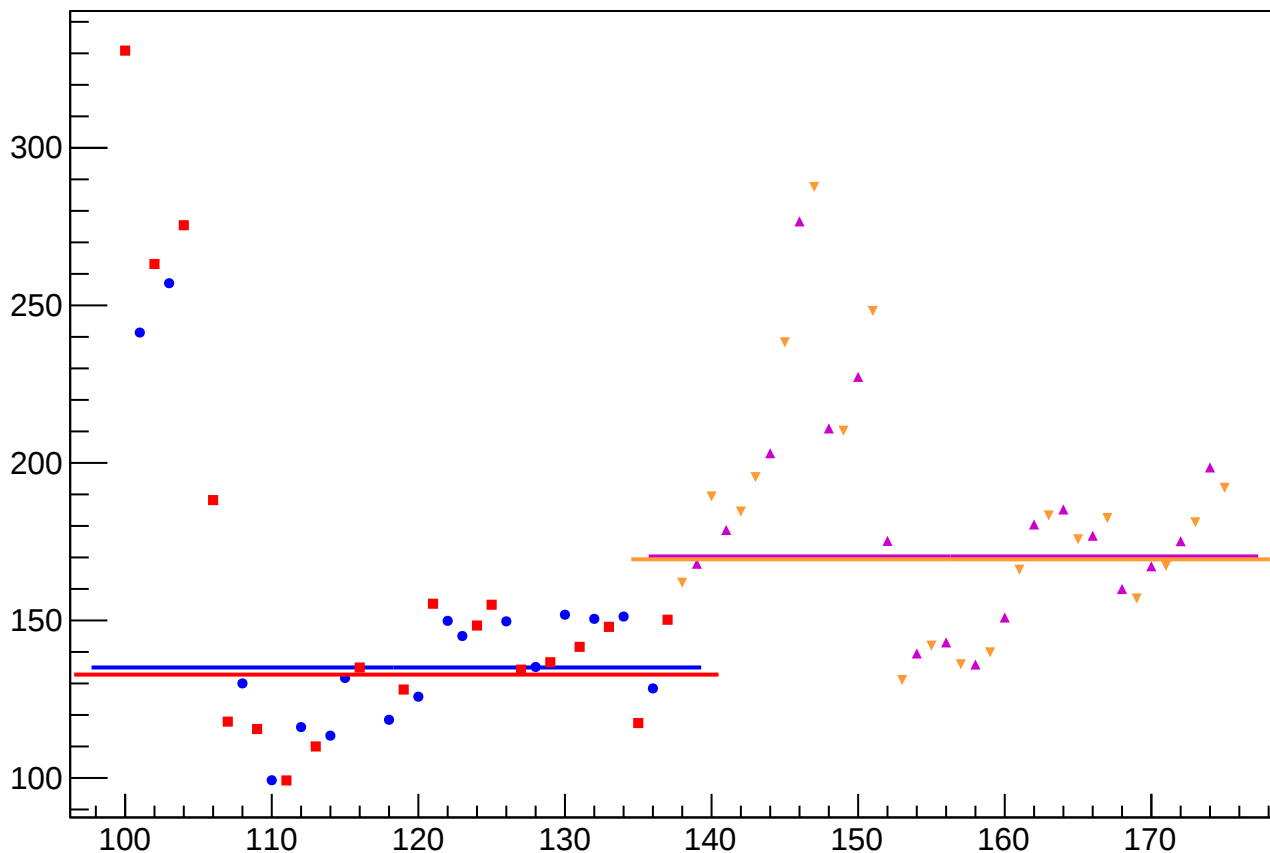
Right: -2271.626 ± 37.895 $\chi^2/\text{NDF}: 42025.0/35$

In: -4232.107 ± 35.717 $\chi^2/\text{NDF}: 59305.5/34$

Out: -2679.863 ± 34.116 $\chi^2/\text{NDF}: 54737.0/38$

All: -3420.414 ± 24.670 $\chi^2/\text{NDF}: 115030.0/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.072 $\pm$ 0.039 χ^2 /NDF: 658703.5/16

Left Out: 169.400 $\pm$ 0.032 χ^2 /NDF:1052531.6/19

Right Out: 132.816 $\pm$ 0.037 χ^2 /NDF: 831191.5/18

Left In: 170.315 $\pm$ 0.033 χ^2 /NDF:769336.1/17

Left: 169.836 $\pm$ 0.023 χ^2 /NDF: 1822263.3/37

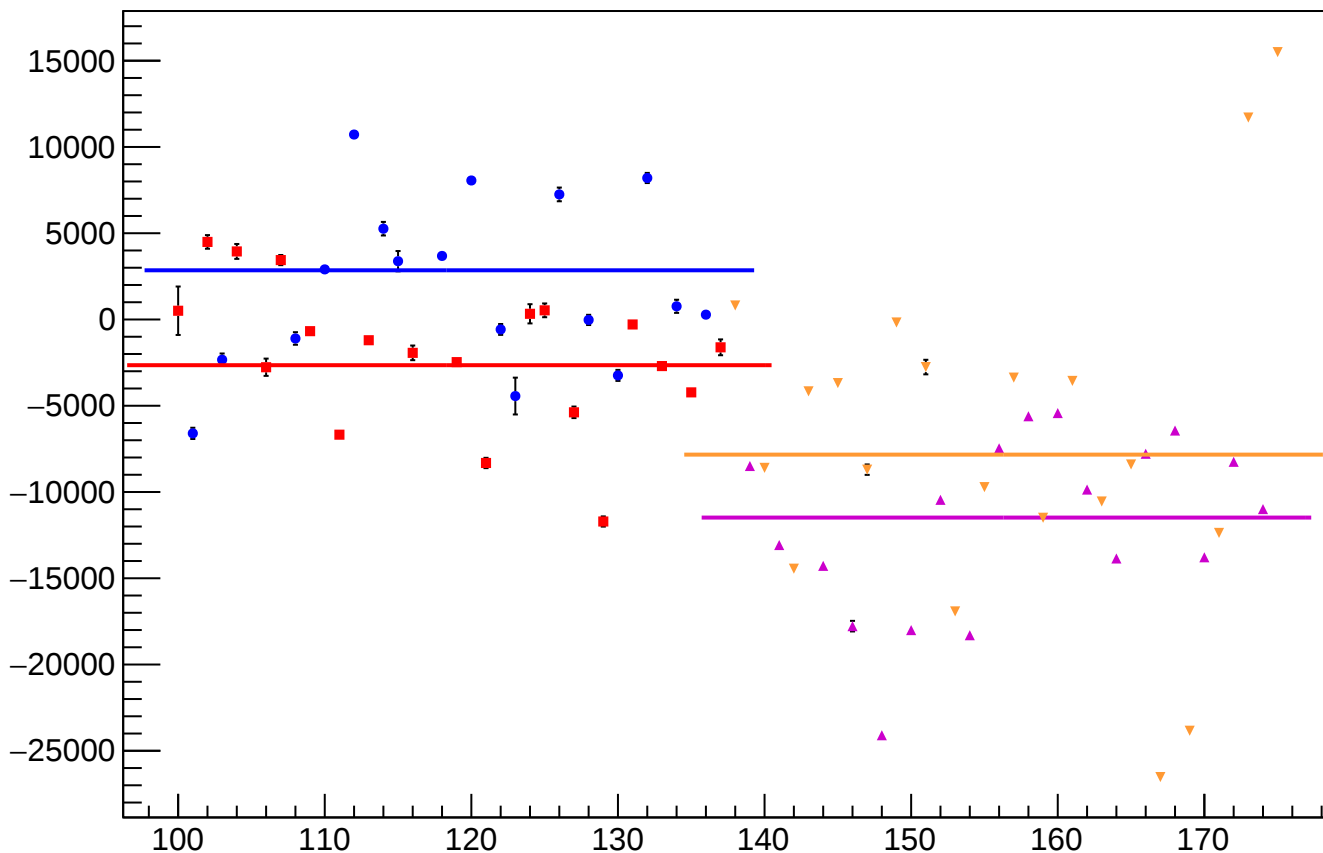
Right: 133.895 $\pm$ 0.027 χ^2 /NDF: 1491663.0/35

In: 155.343 $\pm$ 0.025 χ^2 /NDF:1903855.6/34

Out: 153.929 $\pm$ 0.024 χ^2 /NDF:2444997.8/38

All: 154.603 $\pm$ 0.017 χ^2 /NDF: 4350491.9/73

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2851.437 $\pm$ 70.753 χ^2 /NDF: 4178.1/16

Left Out: -7833.022 $\pm$ 50.761 χ^2 /NDF:38131.8/19

Right Out: -2649.142 $\pm$ 65.731 χ^2 /NDF: 3175.7/18

Left In: -11482.198 $\pm$ 48.179 χ^2 /NDF:10807.9/17

Left: -9752.782 $\pm$ 34.945 χ^2 /NDF: 51658.6/37

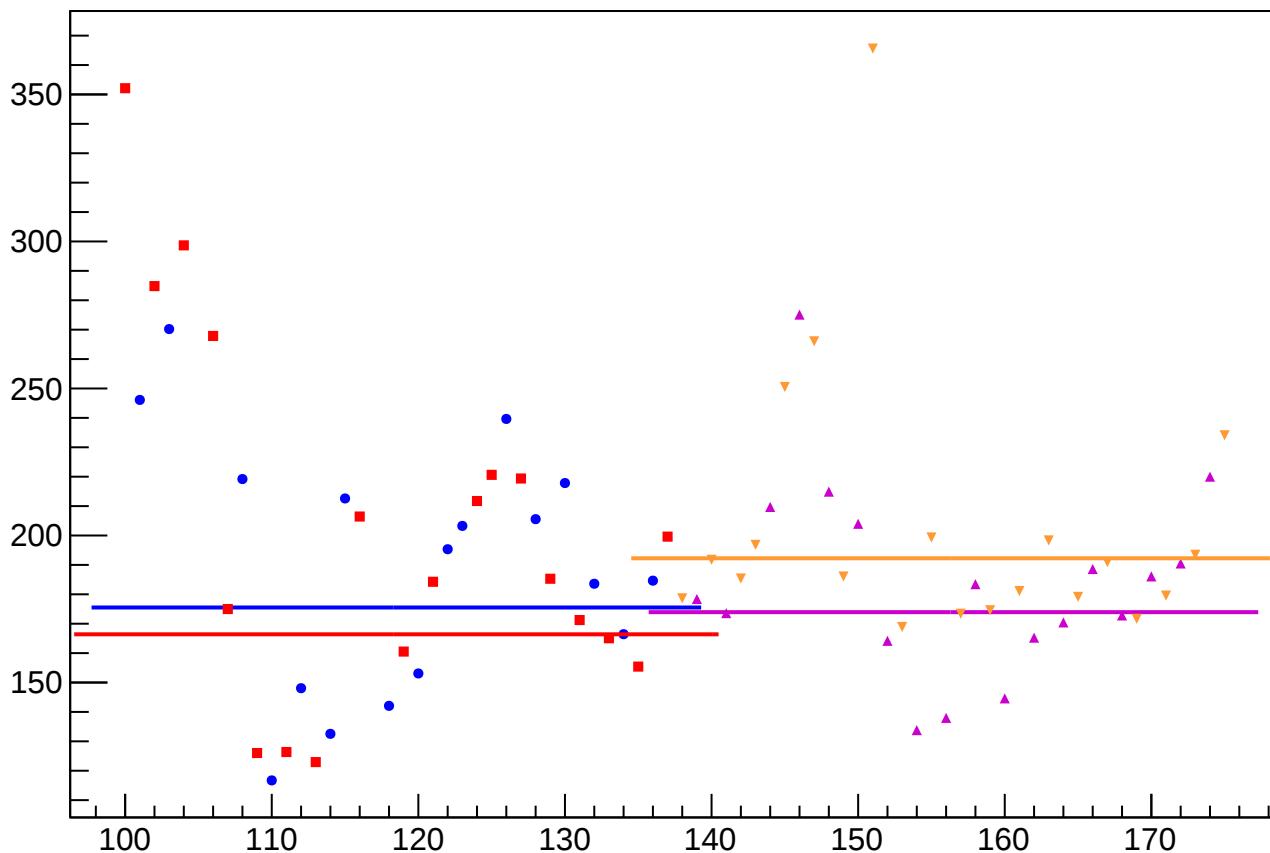
Right: -100.998 $\pm$ 48.156 χ^2 /NDF: 10597.9/35

In: -6941.465 $\pm$ 39.823 χ^2 /NDF:43025.8/34

Out: -5896.427 $\pm$ 40.175 χ^2 /NDF:45203.7/38

All: -6423.553 $\pm$ 28.283 χ^2 /NDF: 88570.8/73

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.514 $\pm$ 0.050 χ^2 /NDF: 689642.3/16

Left Out: 192.250 $\pm$ 0.036 χ^2 /NDF: 711071.0/19

Right Out: 166.393 $\pm$ 0.046 χ^2 /NDF: 929534.5/18

Left In: 173.928 $\pm$ 0.034 χ^2 /NDF: 776592.7/17

Left: 182.611 $\pm$ 0.025 χ^2 /NDF: 1624733.9/37

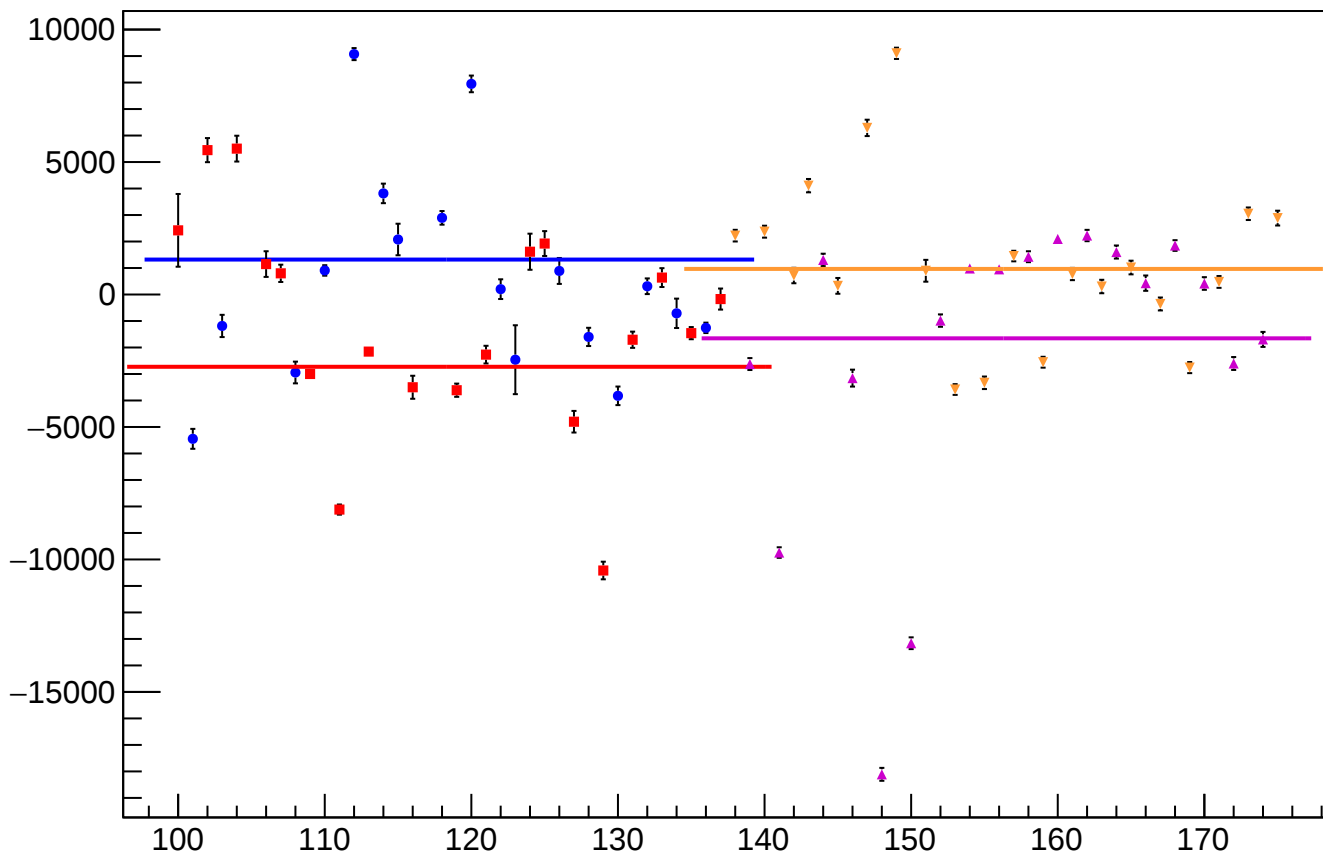
Right: 170.618 $\pm$ 0.034 χ^2 /NDF: 1637018.2/35

In: 174.431 $\pm$ 0.028 χ^2 /NDF: 1466921.6/34

Out: 182.590 $\pm$ 0.028 χ^2 /NDF: 1834472.4/38

All: 178.474 $\pm$ 0.020 χ^2 /NDF: 3343004.8/73

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1319.009+/-77.146 χ^2/NDF : 2667.0/16

Left Out: 965.786+/-53.619 χ^2/NDF : 3603.5/19

Right Out: -2727.798+/-70.029 χ^2/NDF : 2495.9/18

Left In: -1653.949+/-50.720 χ^2/NDF : 11302.8/17

Left: -416.792+/-36.847 χ^2/NDF : 16166.1/37

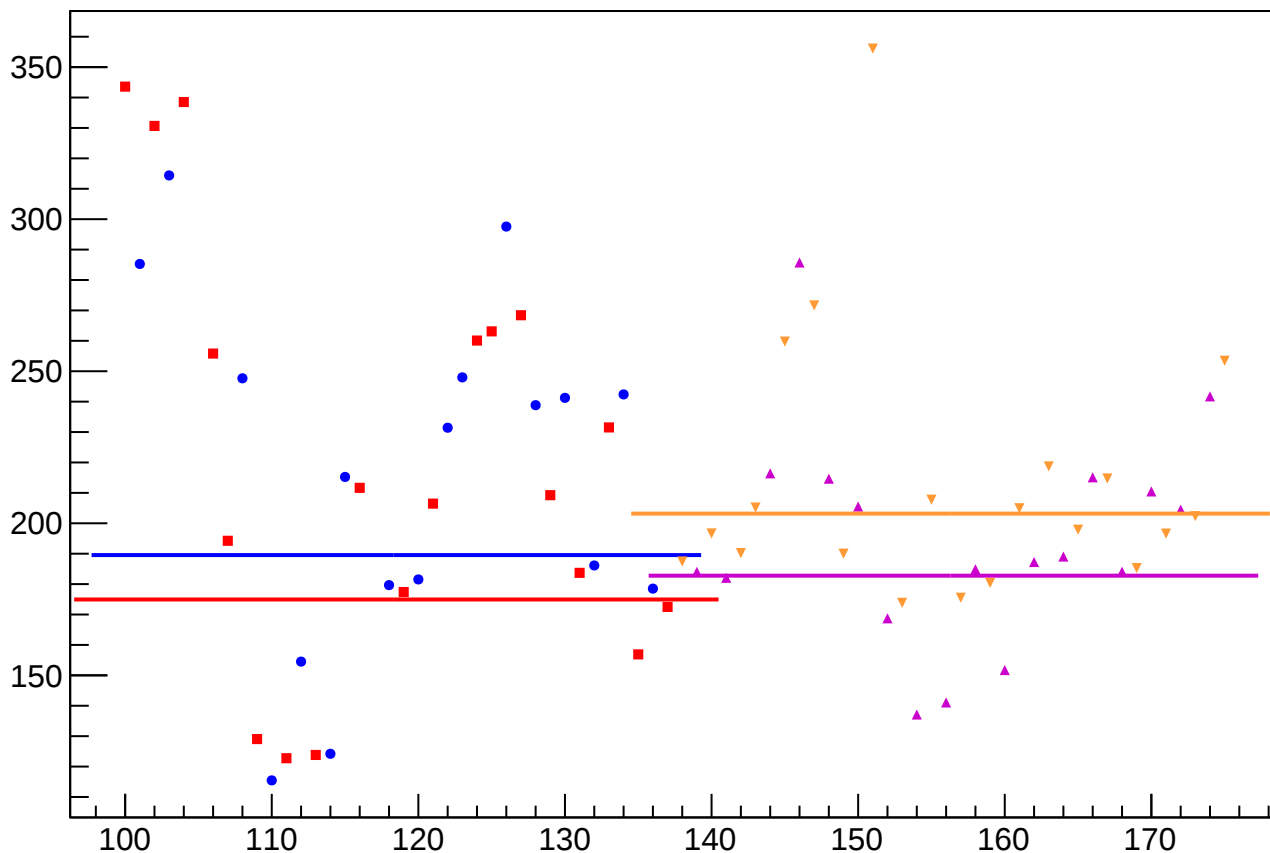
Right: -899.614+/-51.852 χ^2/NDF : 6671.5/35

In: -756.703+/-42.381 χ^2/NDF : 15006.7/34

Out: -399.277+/-42.573 χ^2/NDF : 7853.1/38

All: -578.796+/-30.036 χ^2/NDF : 22895.2/73

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.544+/-0.055 χ^2/NDF : 980744.6/16

Left Out: 203.180+/-0.038 χ^2/NDF : 668977.3/19

Right Out: 174.944+/-0.050 χ^2/NDF : 1297106.6/18

Left In: 182.774+/-0.036 χ^2/NDF : 846531.0/17

Left: 192.411+/-0.026 χ^2/NDF : 1668384.5/37

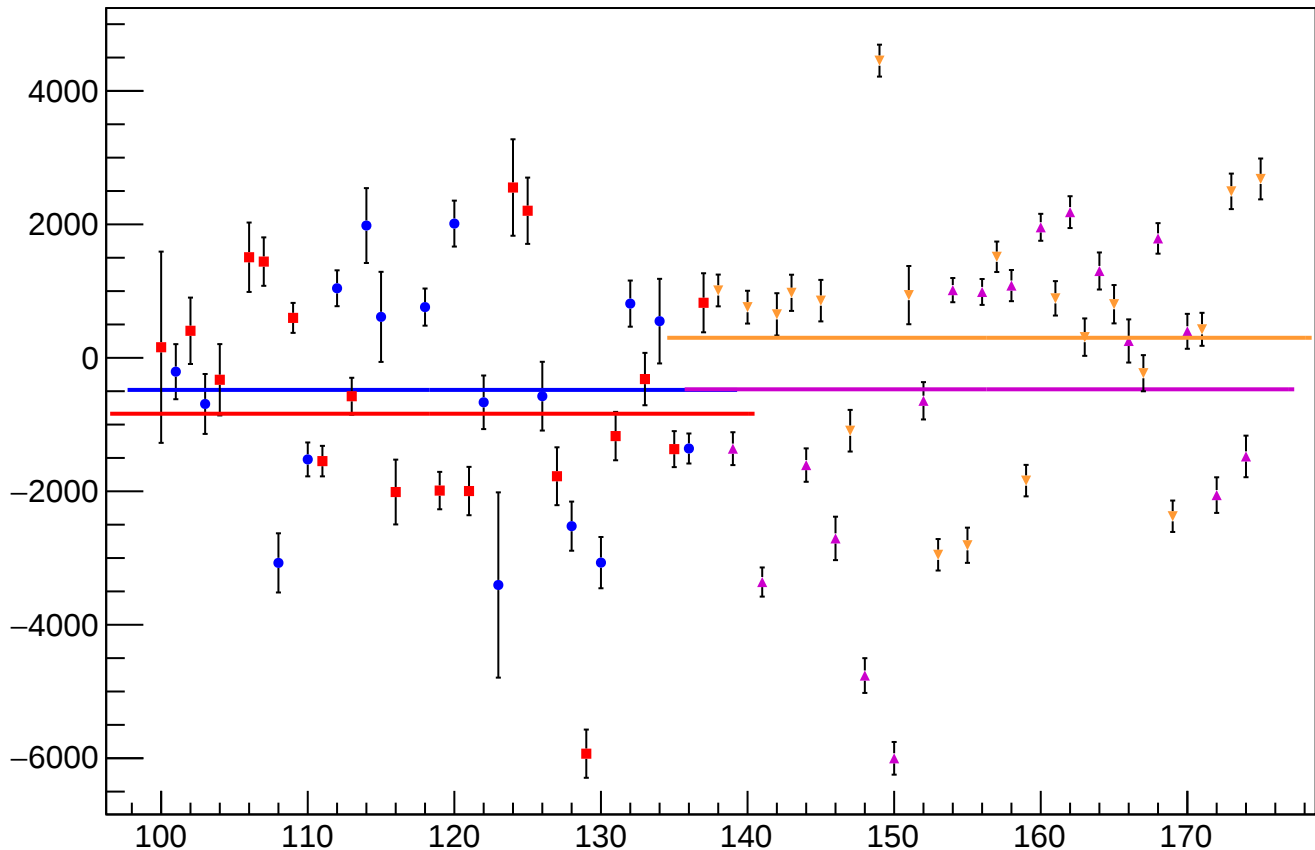
Right: 181.540+/-0.037 χ^2/NDF : 2317127.7/35

In: 184.818+/-0.030 χ^2/NDF : 1838029.7/34

Out: 192.745+/-0.030 χ^2/NDF : 2171071.1/38

All: 188.763+/-0.021 χ^2/NDF : 4043927.6/73

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -480.578+/-88.640 χ^2/NDF : 290.7/16

Left Out: 300.595+/-59.415 χ^2/NDF :1055.6/19

Right Out: -837.442+/-82.243 χ^2/NDF : 435.3/18

Left In: -471.622+/-57.258 χ^2/NDF :1673.4/17

Left: -99.786+/-41.229 χ^2/NDF : 2816.5/37

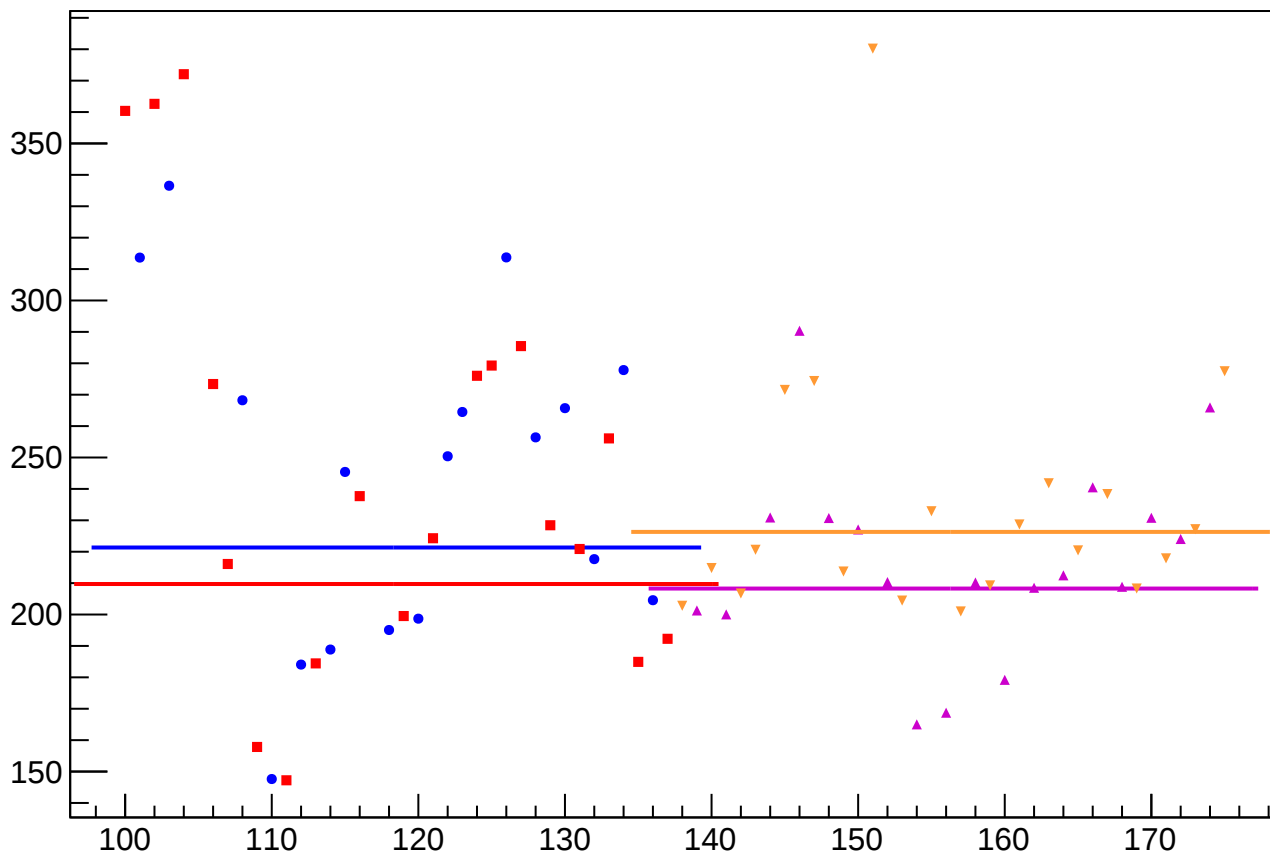
Right: -672.351+/-60.290 χ^2/NDF : 734.7/35

In: -474.259+/-48.096 χ^2/NDF :1964.1/34

Out: -89.672+/-48.162 χ^2/NDF :1616.7/38

All: -282.228+/-34.032 χ^2/NDF : 3612.7/73

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.342 $\pm$ 0.063 χ^2 /NDF: 645688.1/16

Left Out: 226.312 $\pm$ 0.042 χ^2 /NDF: 510947.7/19

Right Out: 209.717 $\pm$ 0.058 χ^2 /NDF: 883917.7/18

Left In: 208.270 $\pm$ 0.040 χ^2 /NDF: 523879.0/17

Left: 216.958 $\pm$ 0.029 χ^2 /NDF: 1130437.7/37

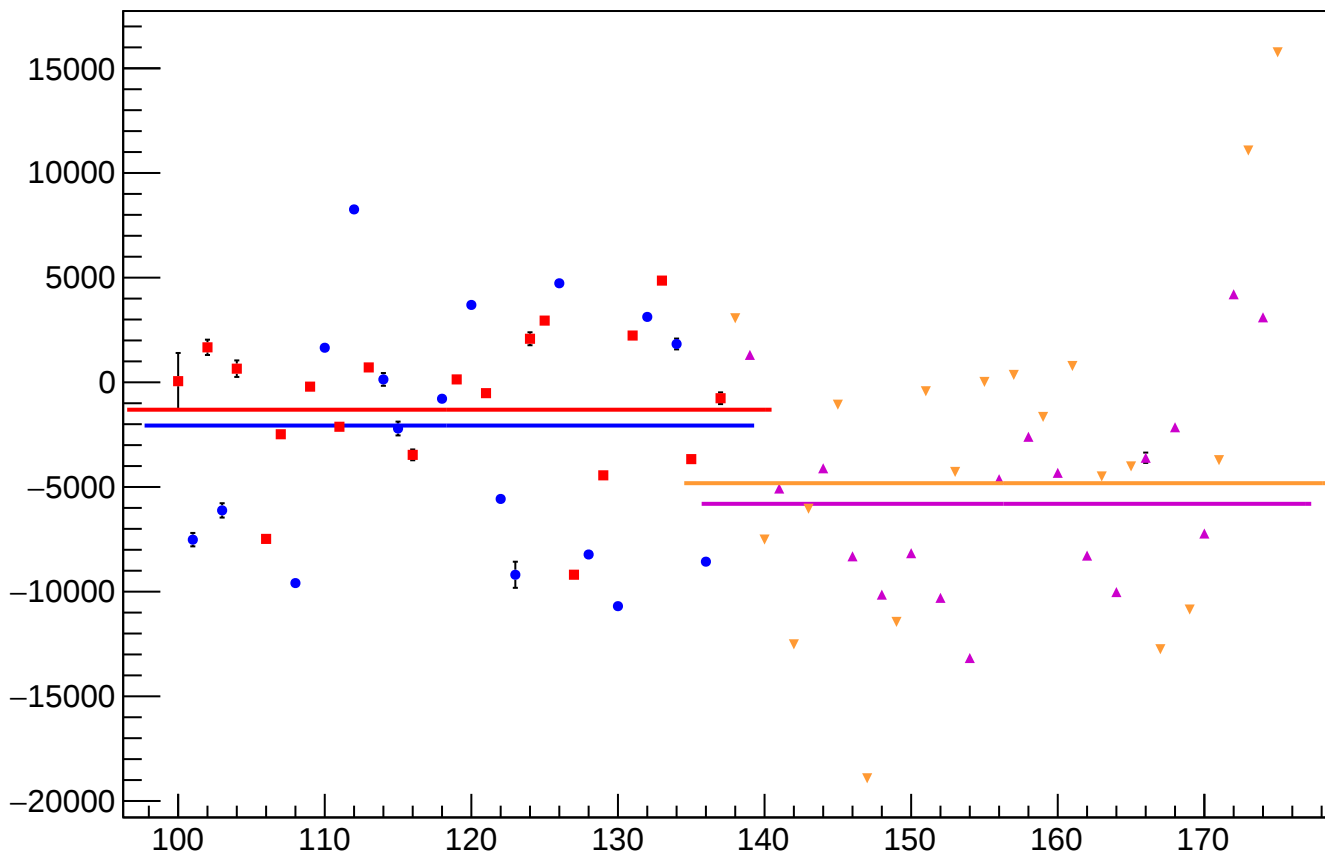
Right: 215.095 $\pm$ 0.043 χ^2 /NDF: 1548093.3/35

In: 212.119 $\pm$ 0.034 χ^2 /NDF: 1200256.4/34

Out: 220.621 $\pm$ 0.034 χ^2 /NDF: 1448371.5/38

All: 216.364 $\pm$ 0.024 χ^2 /NDF: 2679832.0/73

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.160 $\pm$ 47.322 χ^2/NDF : 16533.3/16

Left Out: -4818.637 $\pm$ 35.131 χ^2/NDF :44911.8/19

Right Out: -1308.512 $\pm$ 45.001 χ^2/NDF : 5894.4/18

Left In: -5804.384 $\pm$ 36.451 χ^2/NDF :13396.4/17

Left: -5293.347 $\pm$ 25.295 χ^2/NDF : 58687.3/37

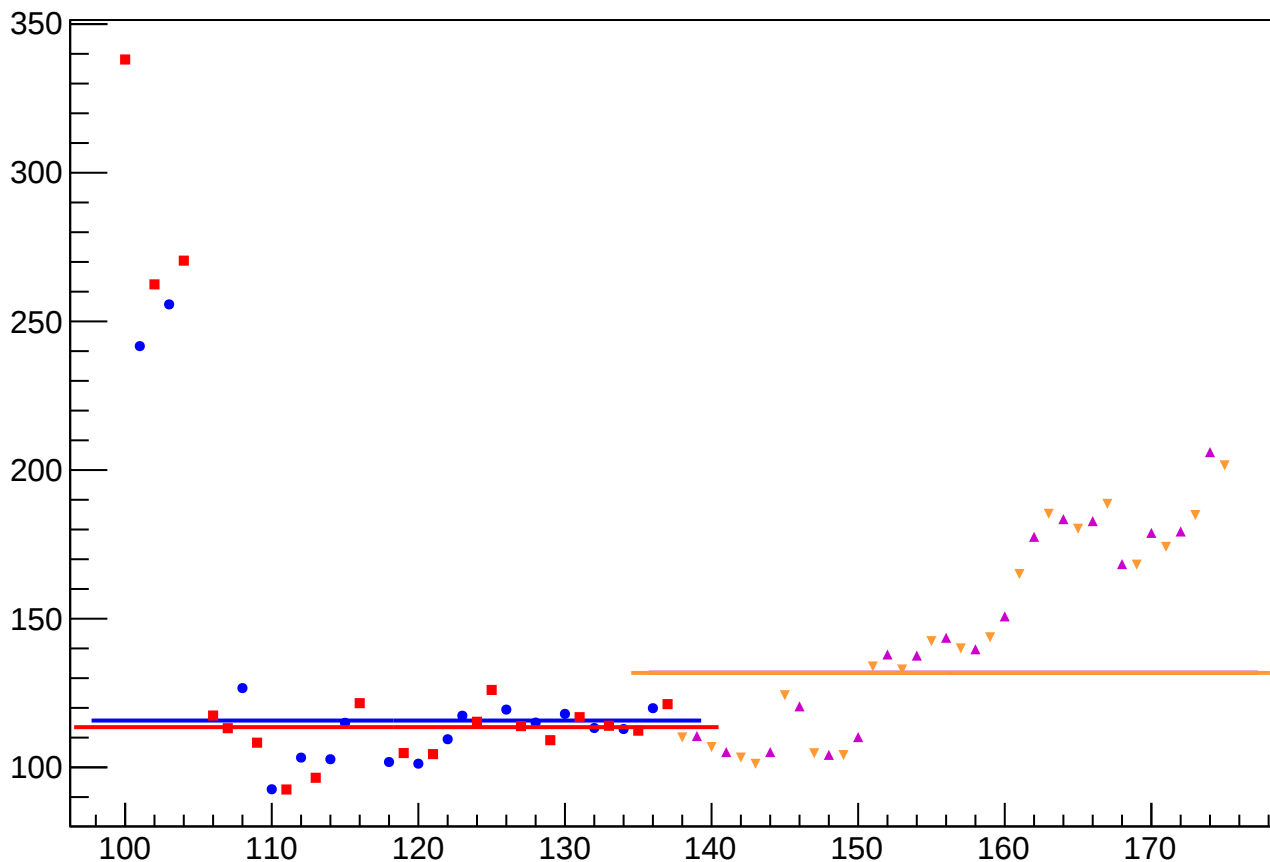
Right: -1667.825 $\pm$ 32.610 χ^2/NDF : 22561.9/35

In: -4411.984 $\pm$ 28.877 χ^2/NDF :33848.3/34

Out: -3489.452 $\pm$ 27.692 χ^2/NDF :54586.4/38

All: -3931.398 $\pm$ 19.987 χ^2/NDF : 88966.4/73

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.741+/-0.033 χ^2/NDF : 744017.7/16

Left Out: 131.770+/-0.025 χ^2/NDF :1461629.3/19

Right Out: 113.519+/-0.032 χ^2/NDF : 796640.6/18

Left In: 131.843+/-0.026 χ^2/NDF :1252580.1/17

Left: 131.805+/-0.018 χ^2/NDF : 2714213.5/37

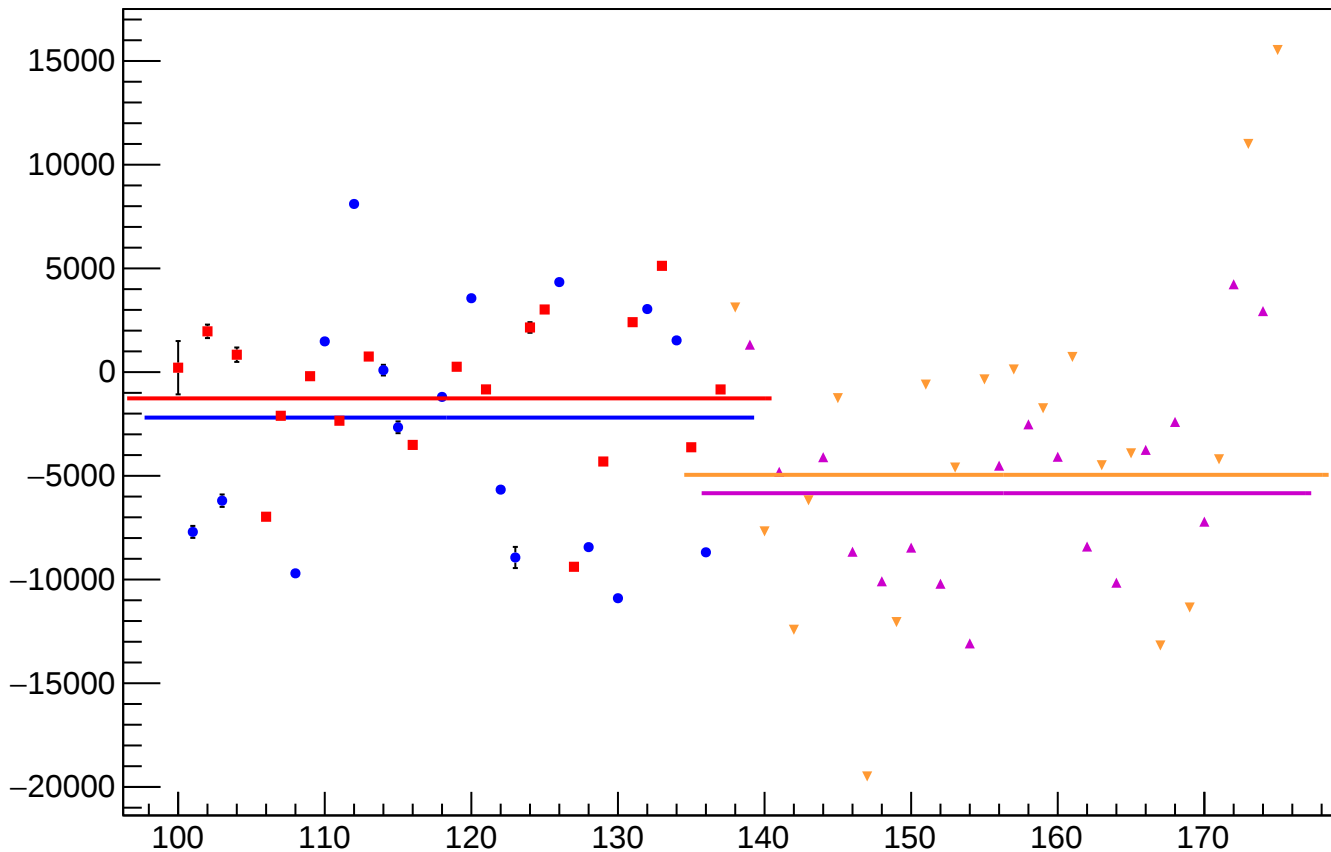
Right: 114.574+/-0.023 χ^2/NDF : 1542972.7/35

In: 125.847+/-0.020 χ^2/NDF :2141929.7/34

Out: 124.859+/-0.020 χ^2/NDF :2462670.8/38

All: 125.332+/-0.014 χ^2/NDF : 4605819.0/73

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2192.327+/-39.944 χ^2/NDF : 22813.5/16

Left Out: -4952.366+/-31.851 χ^2/NDF : 53371.4/19

Right Out: -1266.189+/-38.048 χ^2/NDF : 8550.5/18

Left In: -5837.989+/-33.402 χ^2/NDF : 16145.2/17

Left: -5374.138+/-23.051 χ^2/NDF : 69884.8/37

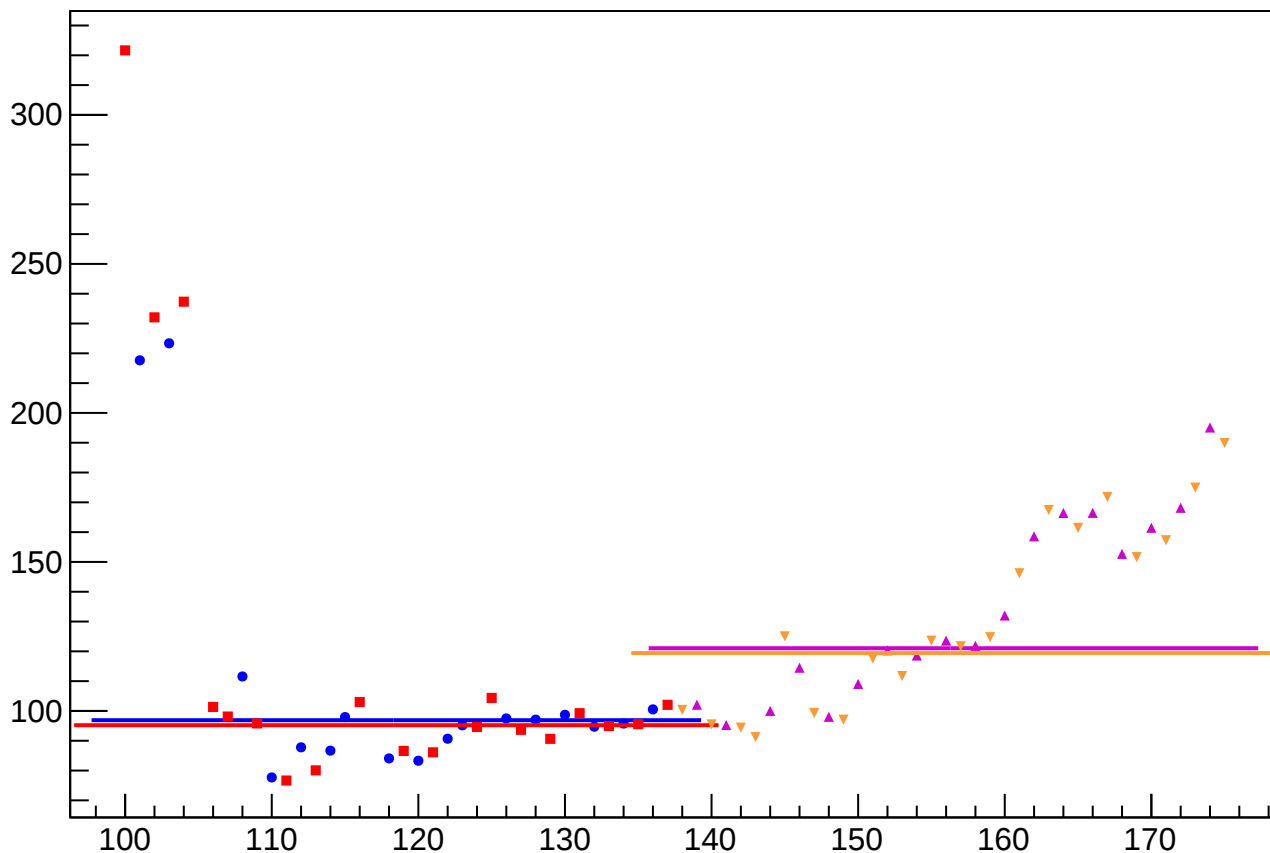
Right: -1706.759+/-27.550 χ^2/NDF : 31645.9/35

In: -4337.777+/-25.624 χ^2/NDF : 43860.9/34

Out: -3433.559+/-24.423 χ^2/NDF : 67440.6/38

All: -3863.987+/-17.679 χ^2/NDF : 111954.1/77

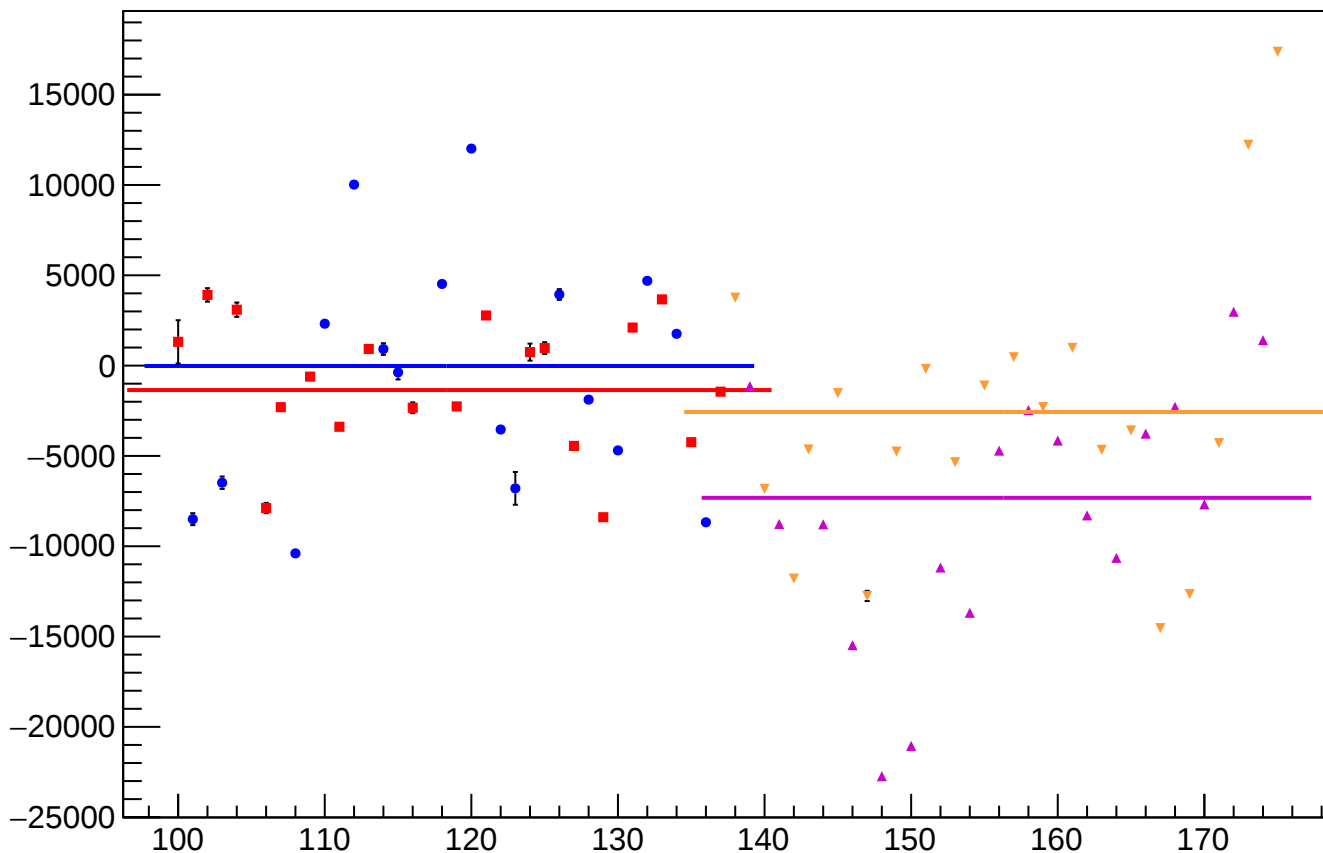
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.894+/-0.028 χ^2/NDF : 817229.9/16
 Left Out: 119.424+/-0.023 χ^2/NDF : 1421496.5/19
 Right Out: 95.213+/-0.027 χ^2/NDF : 859809.7/18
 Left In: 121.041+/-0.024 χ^2/NDF : 1106093.8/17

Left: 120.194+/-0.016 χ^2/NDF : 2530045.0/37
 Right: 96.013+/-0.019 χ^2/NDF : 1678895.4/35
 In: 111.104+/-0.018 χ^2/NDF : 2353437.2/34
 Out: 109.448+/-0.017 χ^2/NDF : 2757424.5/38
 All: 110.236+/-0.013 χ^2/NDF : 5115237.1/73

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -19.990 ± 54.643 χ^2/NDF : 16361.0/16

Left Out: -2565.934 ± 42.986 χ^2/NDF : 24325.4/19

Right Out: -1353.461 ± 52.367 χ^2/NDF : 3837.2/18

Left In: -7319.151 ± 45.716 χ^2/NDF : 17068.4/17

Left: -4796.397 ± 31.316 χ^2/NDF : 47131.5/37

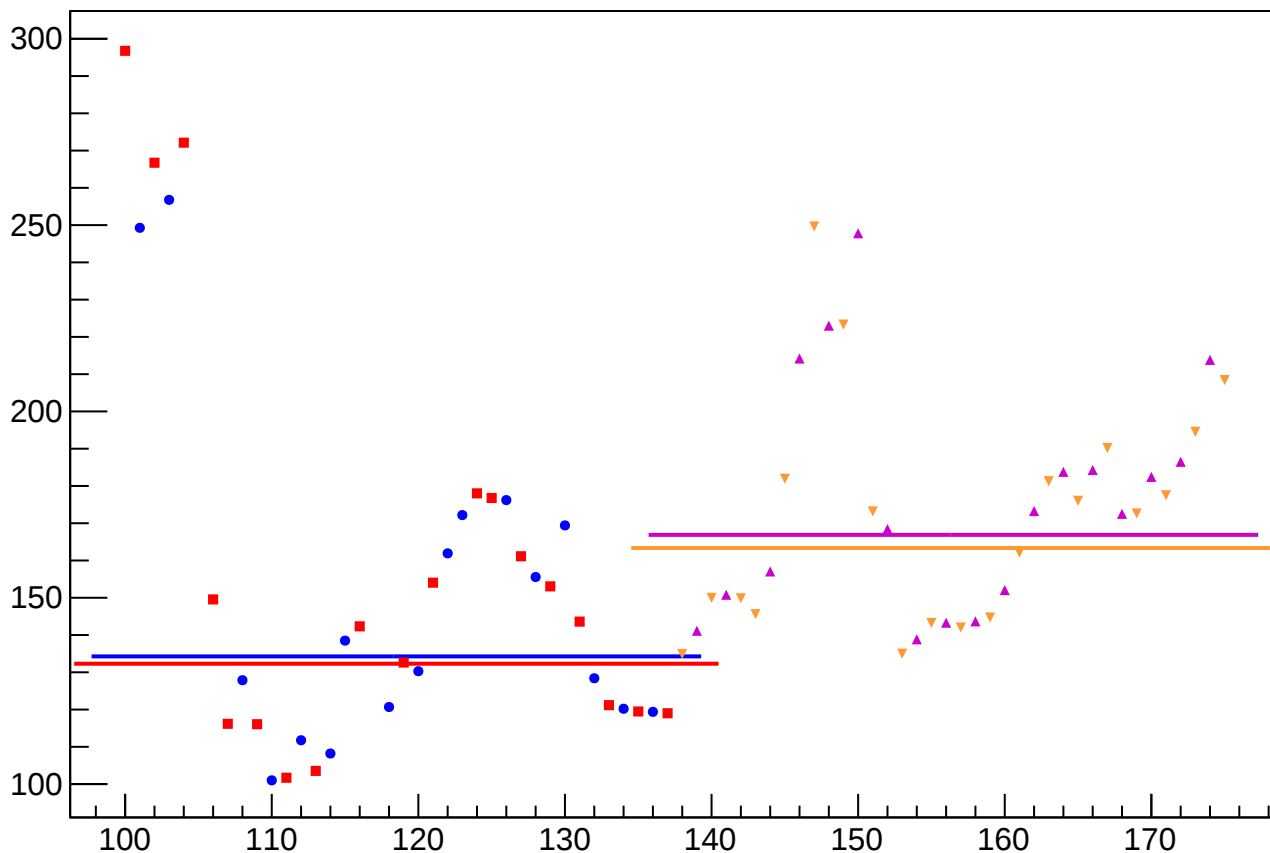
Right: -715.084 ± 37.808 χ^2/NDF : 20508.6/35

In: -4313.799 ± 35.063 χ^2/NDF : 43925.8/34

Out: -2077.839 ± 33.225 χ^2/NDF : 28482.9/38

All: -3135.696 ± 24.117 χ^2/NDF : 74551.4/73

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.268 $\pm$ 0.039 χ^2 /NDF: 788647.0/16

Left Out: 163.364 $\pm$ 0.030 χ^2 /NDF: 768254.3/19

Right Out: 132.302 $\pm$ 0.037 χ^2 /NDF: 869892.7/18

Left In: 166.878 $\pm$ 0.032 χ^2 /NDF: 717238.1/17

Left: 165.013 $\pm$ 0.022 χ^2 /NDF: 1491763.5/37

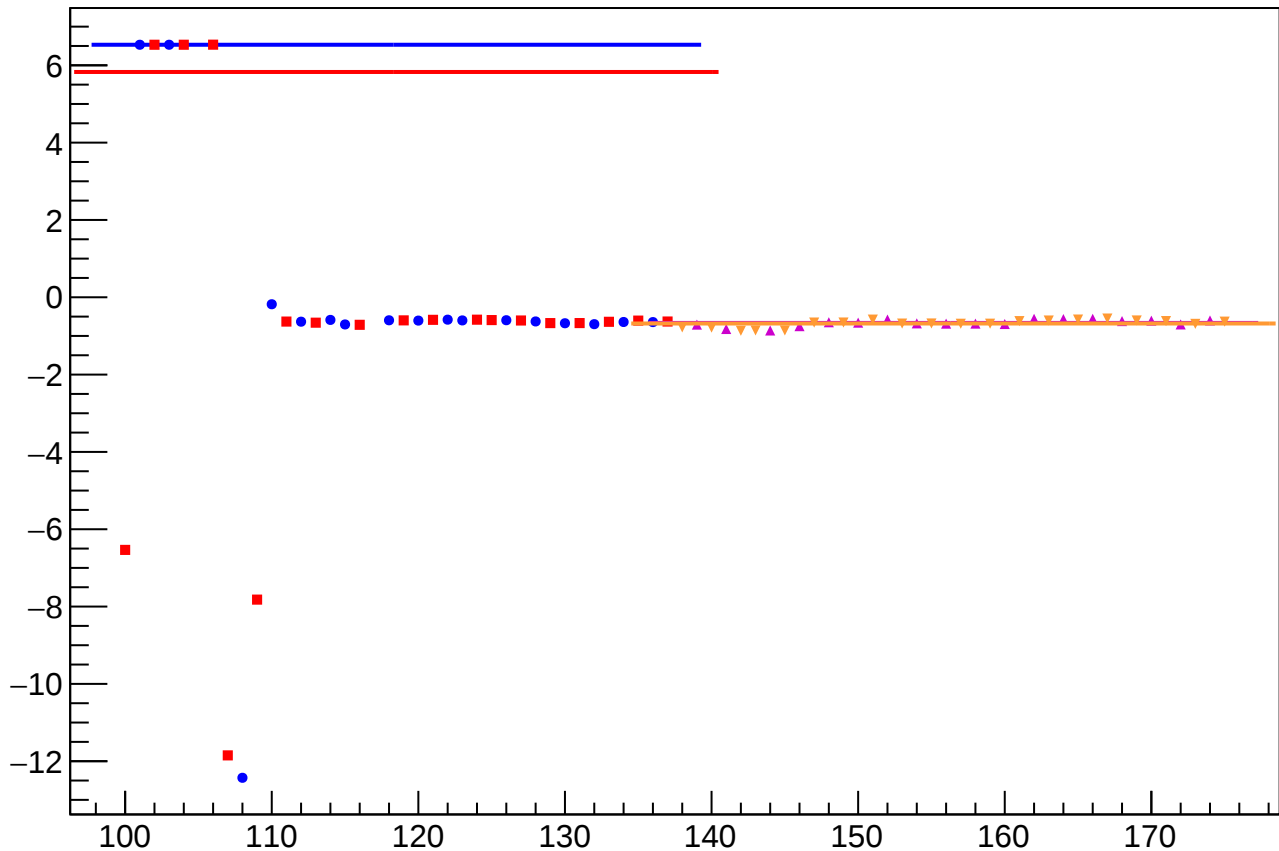
Right: 133.243 $\pm$ 0.027 χ^2 /NDF: 1659888.5/35

In: 153.451 $\pm$ 0.025 χ^2 /NDF: 1924908.0/34

Out: 150.860 $\pm$ 0.023 χ^2 /NDF: 2058558.5/38

All: 152.086 $\pm$ 0.017 χ^2 /NDF: 3989221.4/73

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127906780672.7/16

Left Out: -0.678+/-0.000 χ^2/NDF : 128624817.3/19

Right Out: 5.827+/-0.000 χ^2/NDF : 755948646460090.5/18

Left In: -0.664+/-0.000 χ^2/NDF : 100878138.4/17

Left: -0.671+/-0.000 χ^2/NDF : 230892386.7/37

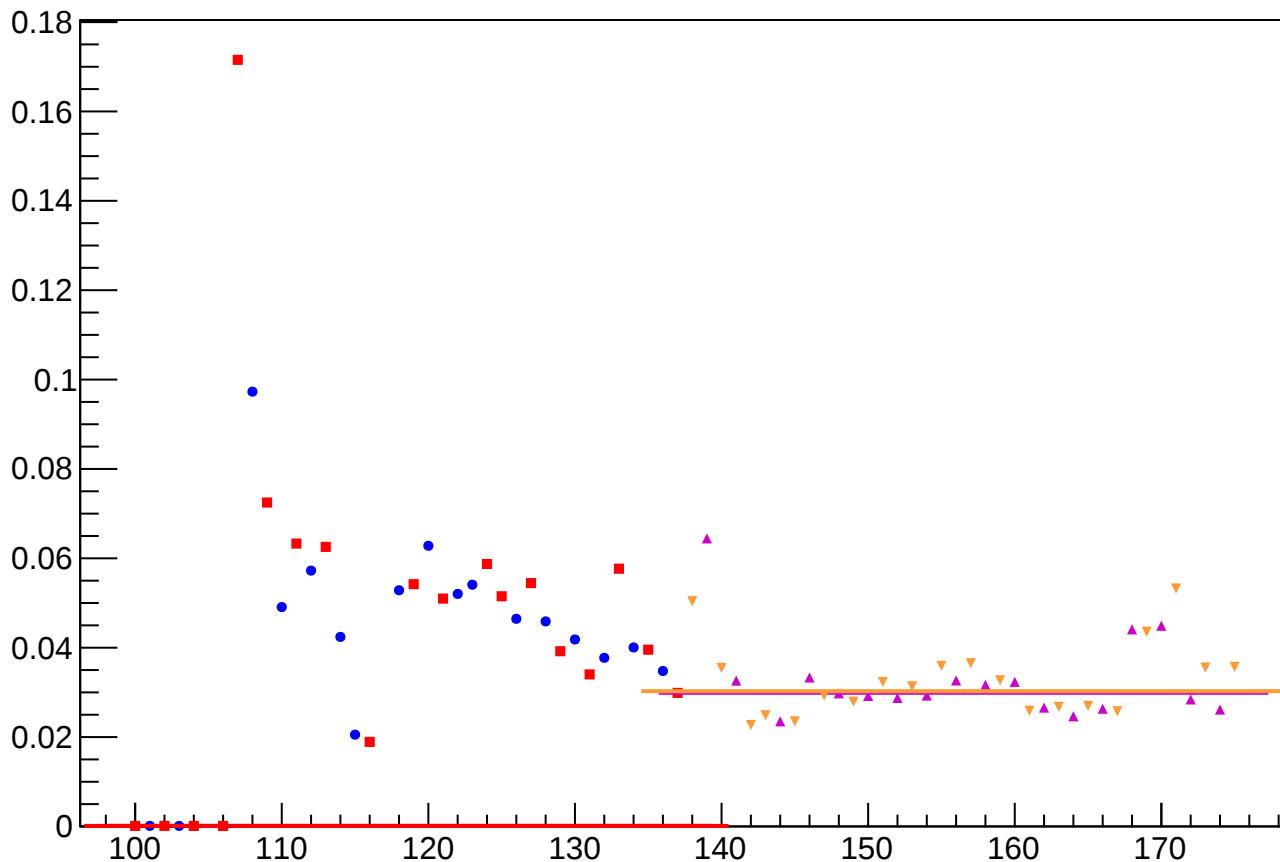
Right: 6.155+/-0.000 χ^2/NDF : 776079822212880.5/16

In: 6.530+/-0.000 χ^2/NDF : 757708349119.8/34

Out: 5.827+/-0.000 χ^2/NDF : 756489177099581.9/34

All: 6.154+/-0.000 χ^2/NDF : 77724166226110

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9028405.7/16

Left Out: 0.030+/-0.000 χ^2/NDF : 1063457.2/19

Right Out: 0.000+/-0.000 χ^2/NDF : 9373556.8/18

Left In: 0.030+/-0.000 χ^2/NDF : 913191.6/17

Left: 0.030+/-0.000 χ^2/NDF : 1978220.5/37

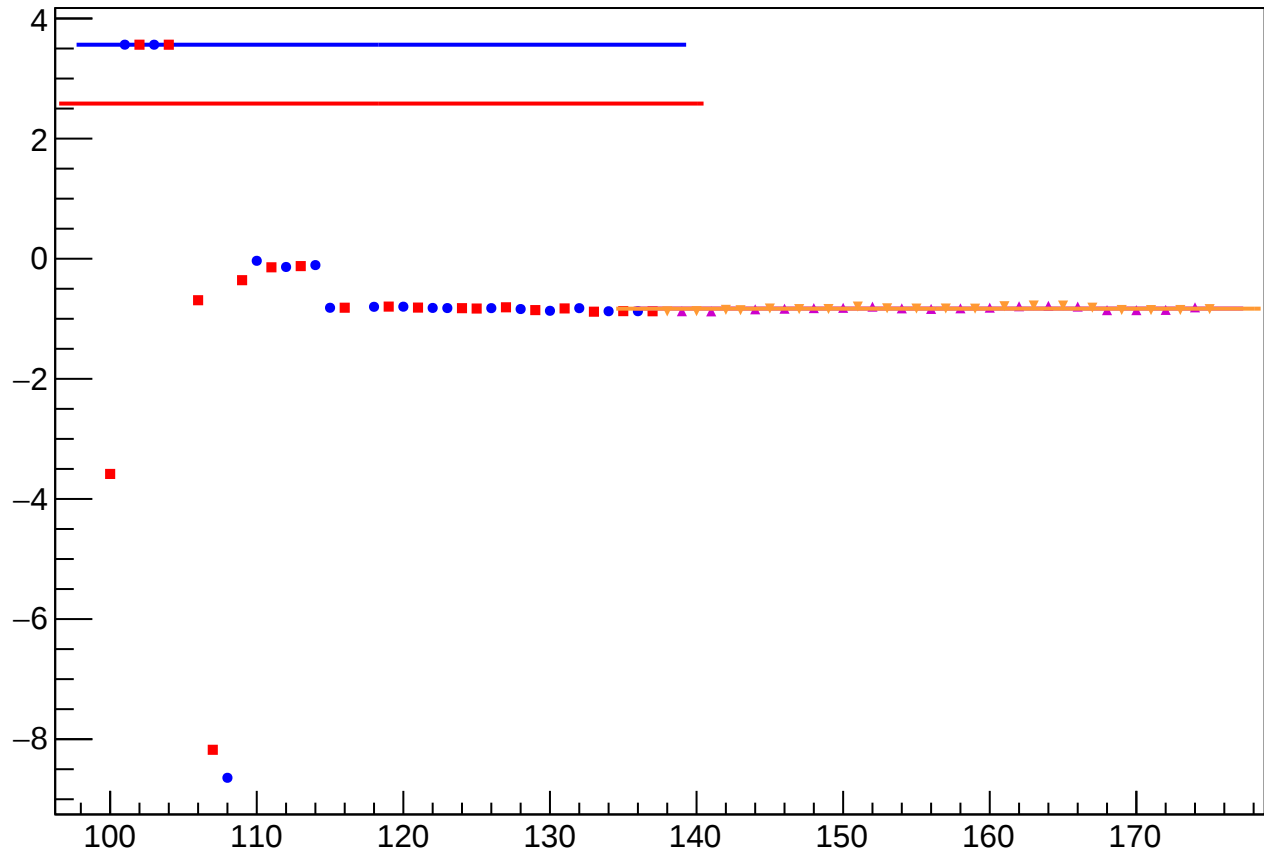
Right: 0.000+/-0.000 χ^2/NDF : 18402211.3/35

In: 0.000+/-0.000 χ^2/NDF : 31532540.8/34

Out: 0.000+/-0.000 χ^2/NDF : 33646250.2/38

All: 0.000+/-0.000 χ^2/NDF : 65179156.5/73

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 486958795673.0/16

Left Out: -0.831+/-0.000 χ^2/NDF : 144048490.9/19

Right Out: 2.583+/-0.000 χ^2/NDF : 1253505323583154.2/18

Left In: -0.830+/-0.000 χ^2/NDF : 124592000.7/17

Left: -0.831+/-0.000 χ^2/NDF : 268899521.3/37

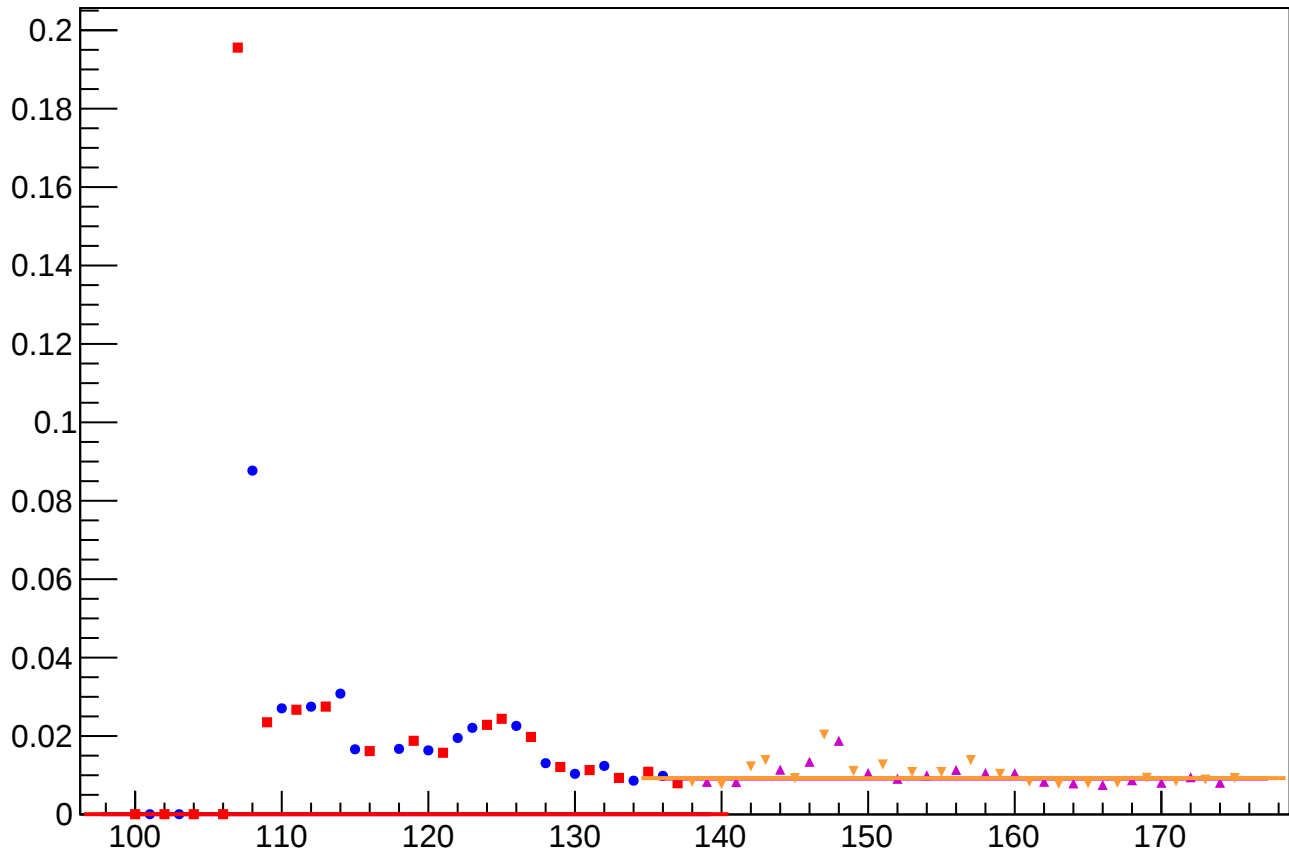
Right: 3.040+/-0.000 χ^2/NDF : 1382263247622324.0/177

In: 3.561+/-0.000 χ^2/NDF : 3109070664161.6/34

Out: 2.582+/-0.000 χ^2/NDF : 1255170735507418.8

All: 3.038+/-0.000 χ^2/NDF : 13864391146784.0/177

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9848258.0/16

Left Out: 0.009+/-0.000 χ^2/NDF :1079038.7/19

Right Out: 0.000+/-0.000 χ^2/NDF : 9880078.9/18

Left In: 0.009+/-0.000 χ^2/NDF :818940.8/17

Left: 0.009+/-0.000 χ^2/NDF : 1899544.2/37

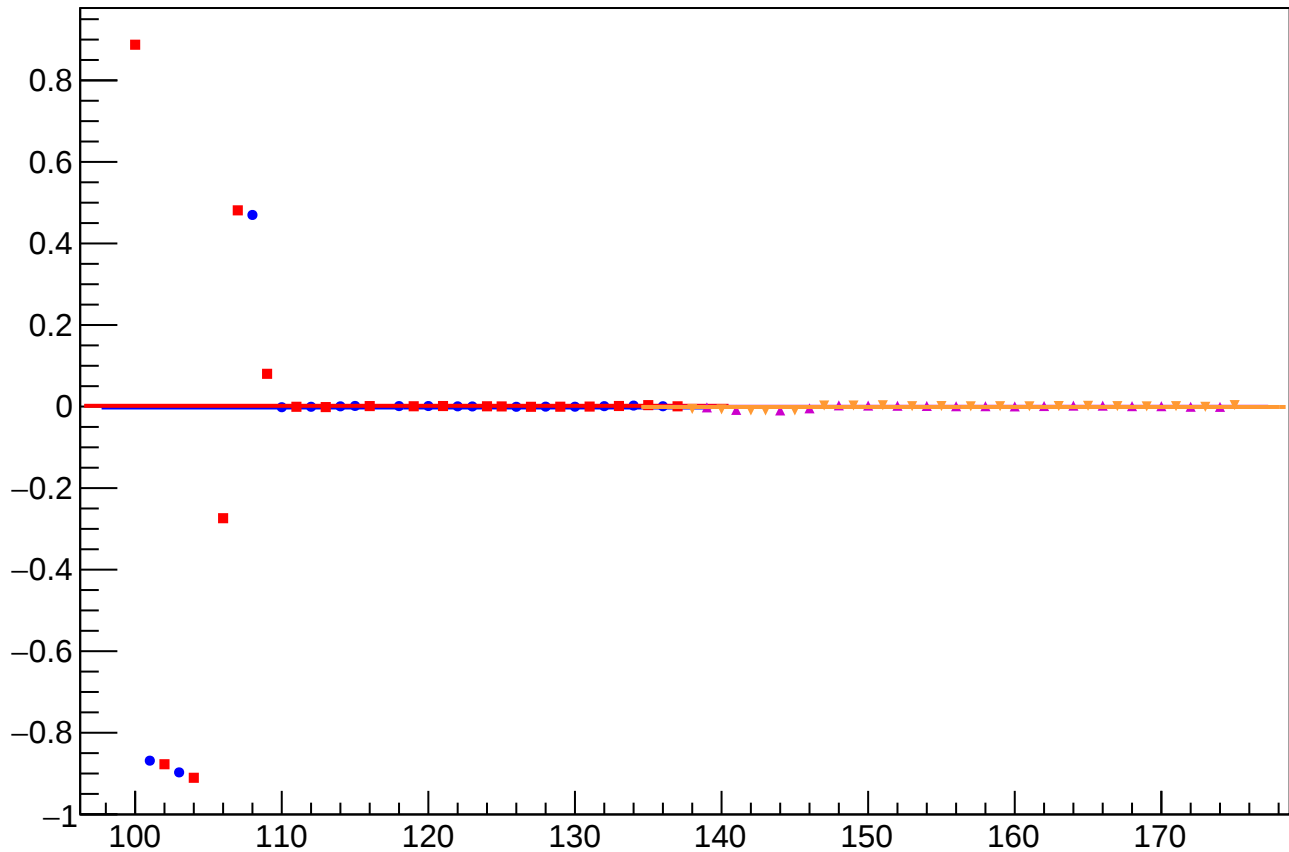
Right: 0.000+/-0.000 χ^2/NDF : 19728618.4/35

In: 0.000+/-0.000 χ^2/NDF :33101172.3/34

Out: 0.000+/-0.000 χ^2/NDF :35095957.1/38

All: 0.000+/-0.000 χ^2/NDF : 68197635.6/73

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795424036.3/16

Left Out: -0.001+/-0.000 χ^2/NDF : 101734846.1/19

Right Out: 0.002+/-0.000 χ^2/NDF : 3041331104.7/18

Left In: -0.001+/-0.000 χ^2/NDF : 67356635.9/17

Left: -0.001+/-0.000 χ^2/NDF : 169620030.0/37

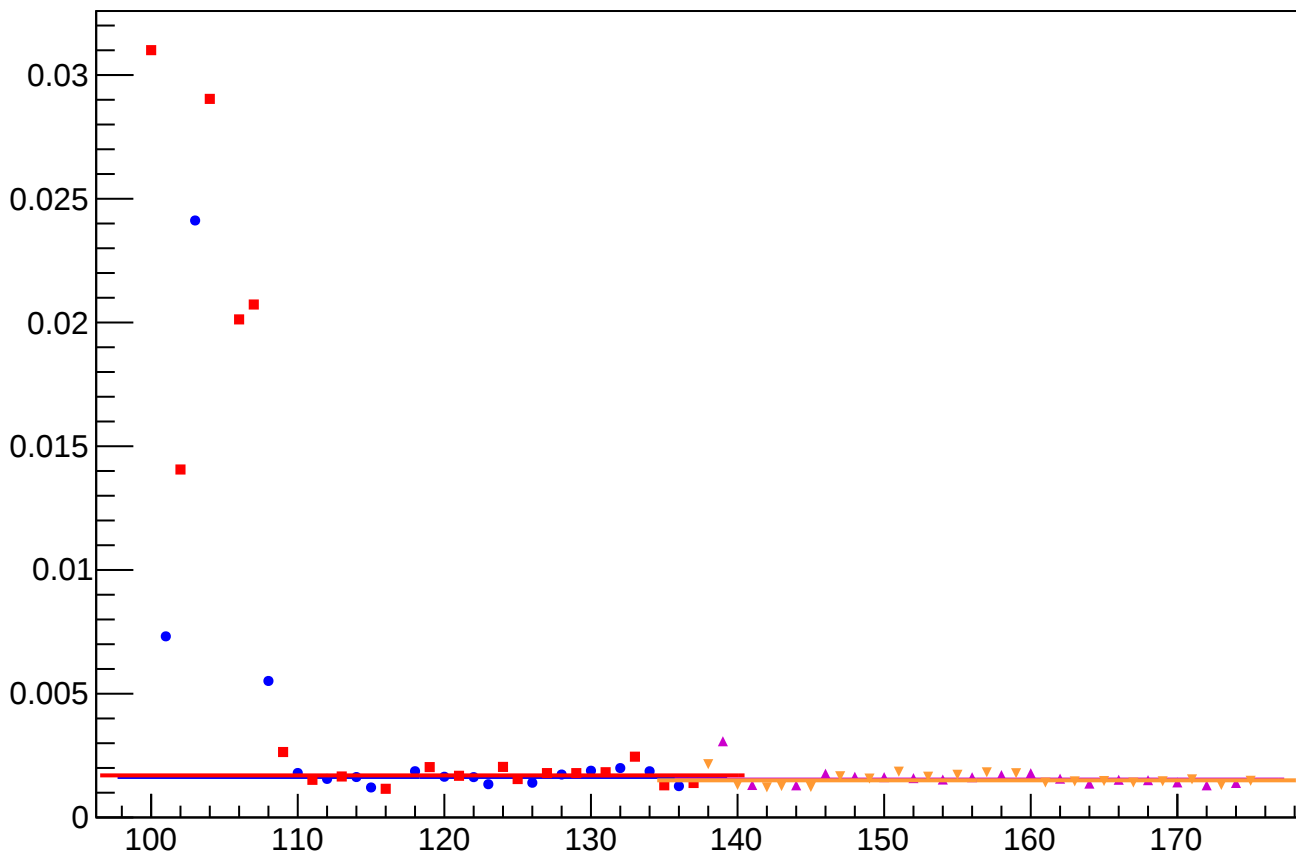
Right: -0.000+/-0.000 χ^2/NDF : 12850559659.8/35

In: -0.001+/-0.000 χ^2/NDF : 9866352816.2/34

Out: -0.000+/-0.000 χ^2/NDF : 3153146579.7/38

All: -0.001+/-0.000 χ^2/NDF : 13020849156.8/81

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1919127.9/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:456209.5/19

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3025332.9/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:567647.5/17

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 1028507.0/37

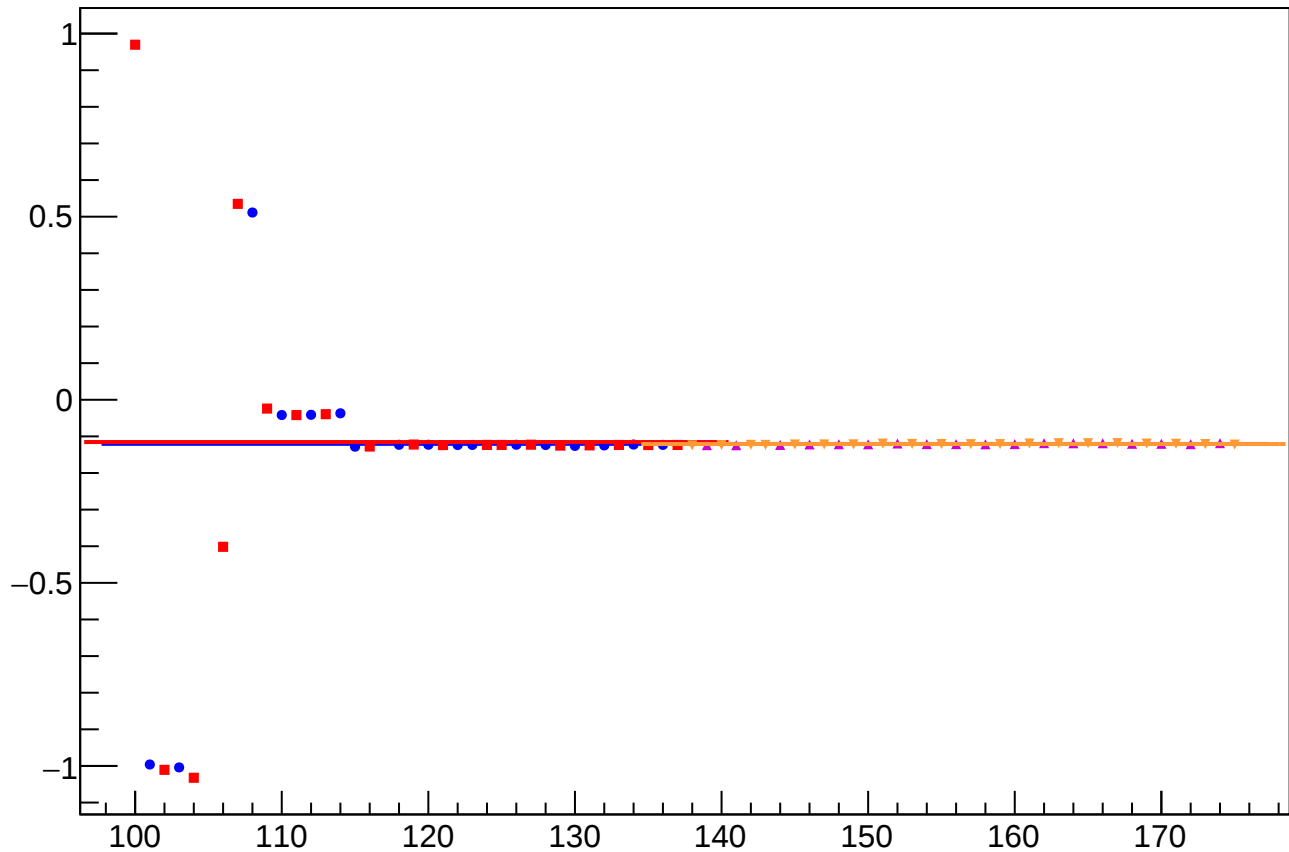
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4950980.4/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2514605.5/34

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3576769.6/38

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 6092547.3/73

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932311162.8/16

Left Out: -0.121+/-0.000 χ^2/NDF : 34030303.3/19

Right Out: -0.115+/-0.000 χ^2/NDF : 2457092455.9/18

Left In: -0.121+/-0.000 χ^2/NDF : 32602429.0/17

Left: -0.121+/-0.000 χ^2/NDF : 67018742.3/37

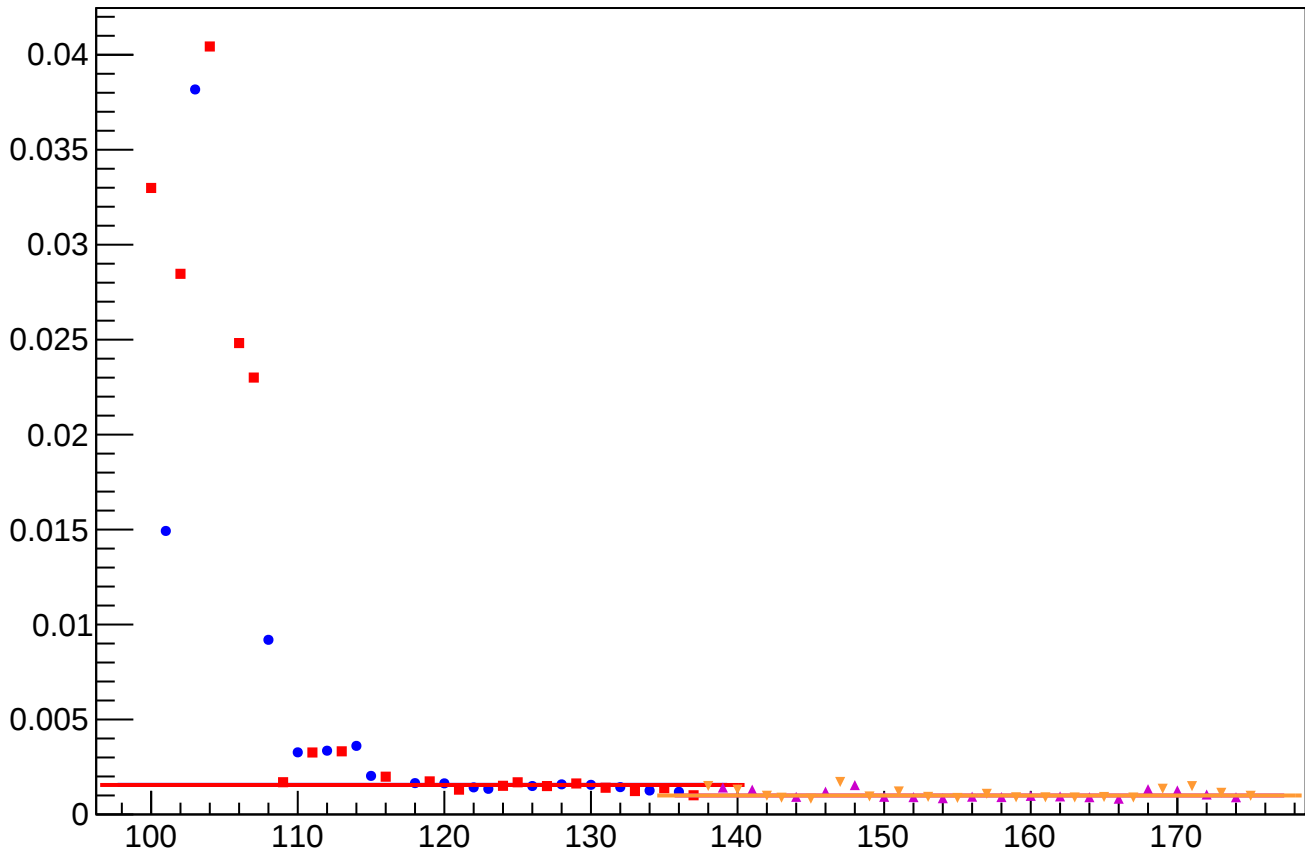
Right: -0.118+/-0.000 χ^2/NDF : 6412422727.1/35

In: -0.121+/-0.000 χ^2/NDF : 3965097026.2/34

Out: -0.120+/-0.000 χ^2/NDF : 2541464879.1/38

All: -0.120+/-0.000 χ^2/NDF : 6507661851.7/77

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2903607.4/16

Left Out: 0.001+/-0.000 χ^2/NDF :1034777.0/19

Right Out: 0.002+/-0.000 χ^2/NDF : 3538622.3/18

Left In: 0.001+/-0.000 χ^2/NDF :751442.6/17

Left: 0.001+/-0.000 χ^2/NDF : 1786225.0/37

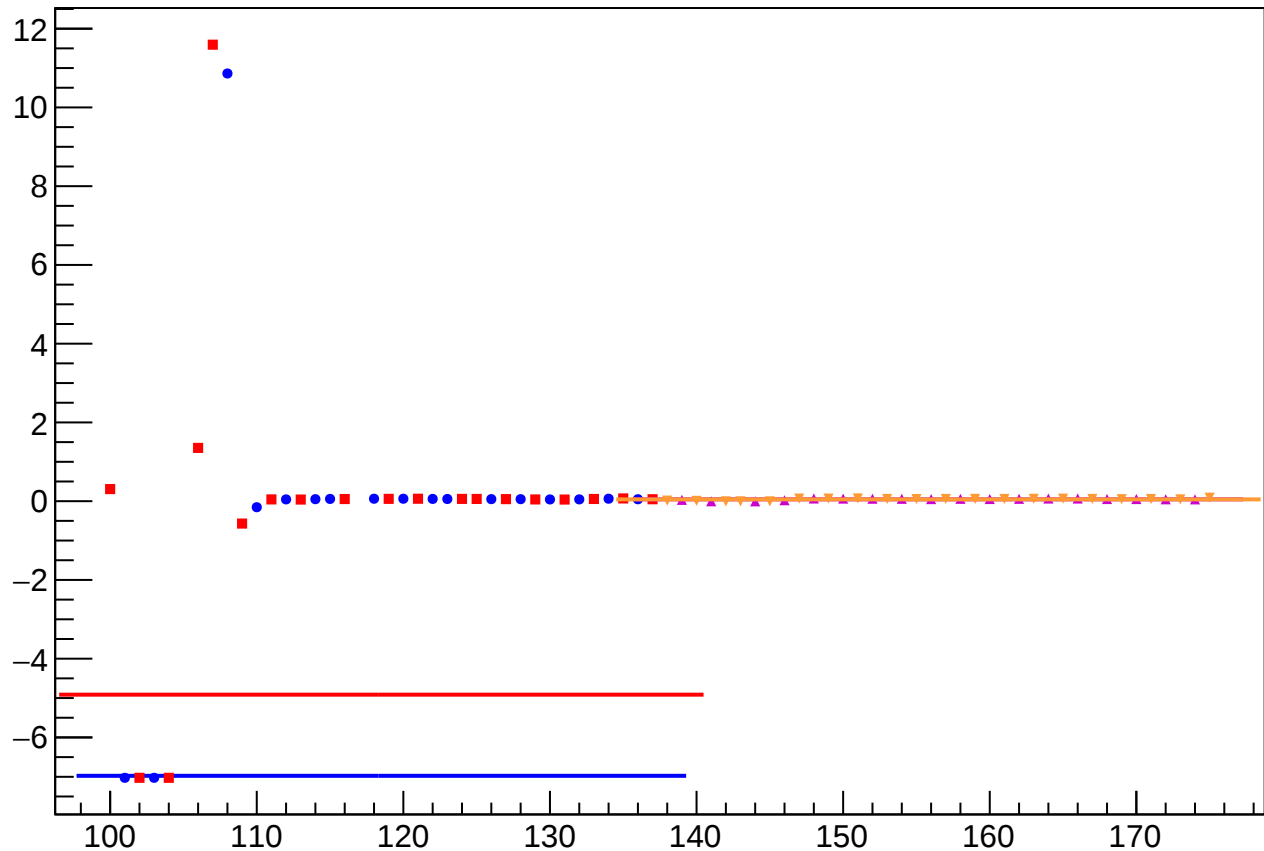
Right: 0.002+/-0.000 χ^2/NDF : 6442279.4/35

In: 0.001+/-0.000 χ^2/NDF :4691818.9/34

Out: 0.001+/-0.000 χ^2/NDF :5593945.7/38

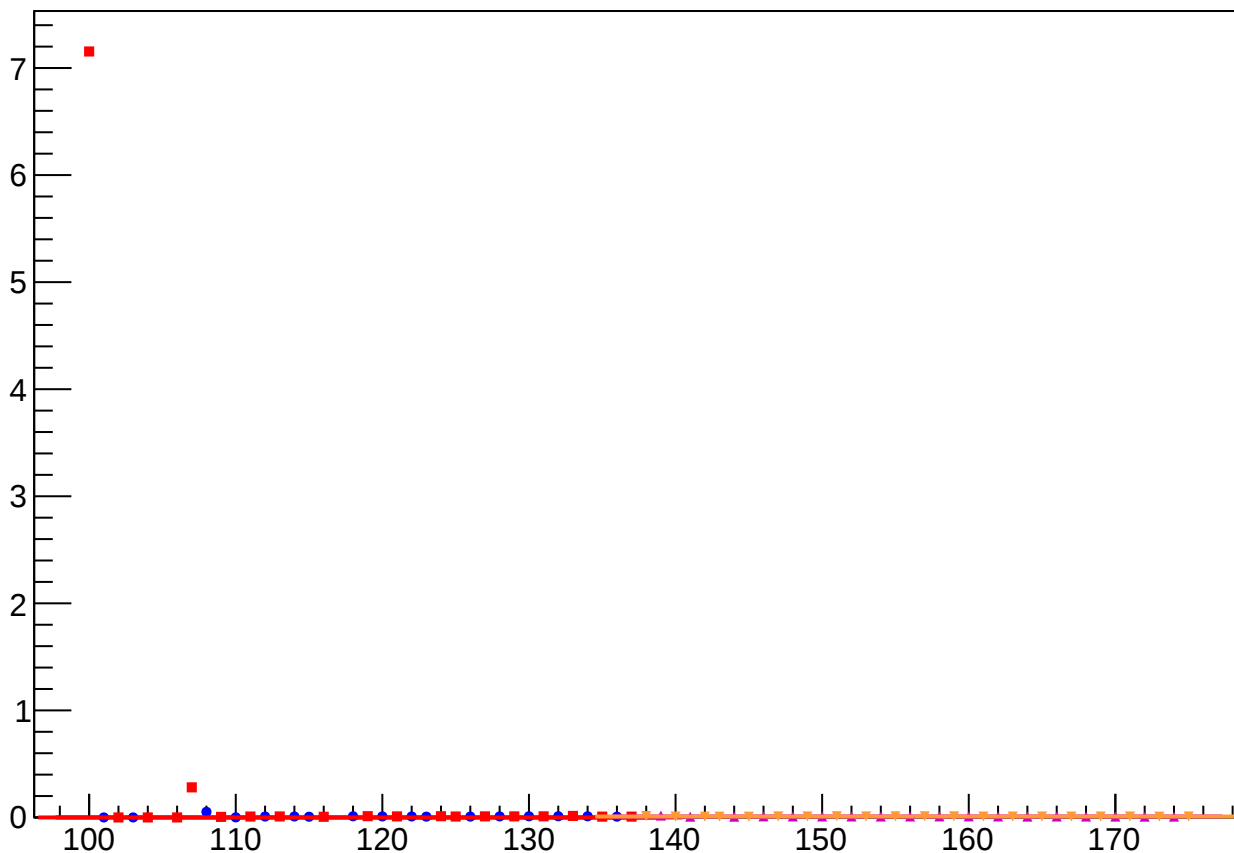
All: 0.001+/-0.000 χ^2/NDF : 10286093.1/73

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8787948713830.4/16
 Left Out: 0.046+/-0.000 χ^2/NDF : 112429124.2/19
 Right Out: -4.914+/-0.000 χ^2/NDF : 365362215369689.4/18
 Left In: 0.047+/-0.000 χ^2/NDF : 74629526.8/17
 Left: 0.046+/-0.000 χ^2/NDF : 187245023.0/37
 Right: -5.900+/-0.000 χ^2/NDF : 430340247682327.9
 In: -6.937+/-0.000 χ^2/NDF : 15533269404008.9/34
 Out: -4.886+/-0.000 χ^2/NDF : 369117174381734.9
 All: -5.867+/-0.000 χ^2/NDF : 4405744448393

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8362763.6/16

Left Out: 0.009+/-0.000 χ^2/NDF : 453860.2/19

Right Out: 0.000+/-0.000 χ^2/NDF : 8802124.3/18

Left In: 0.009+/-0.000 χ^2/NDF : 572132.8/17

Left: 0.009+/-0.000 χ^2/NDF : 1029744.5/37

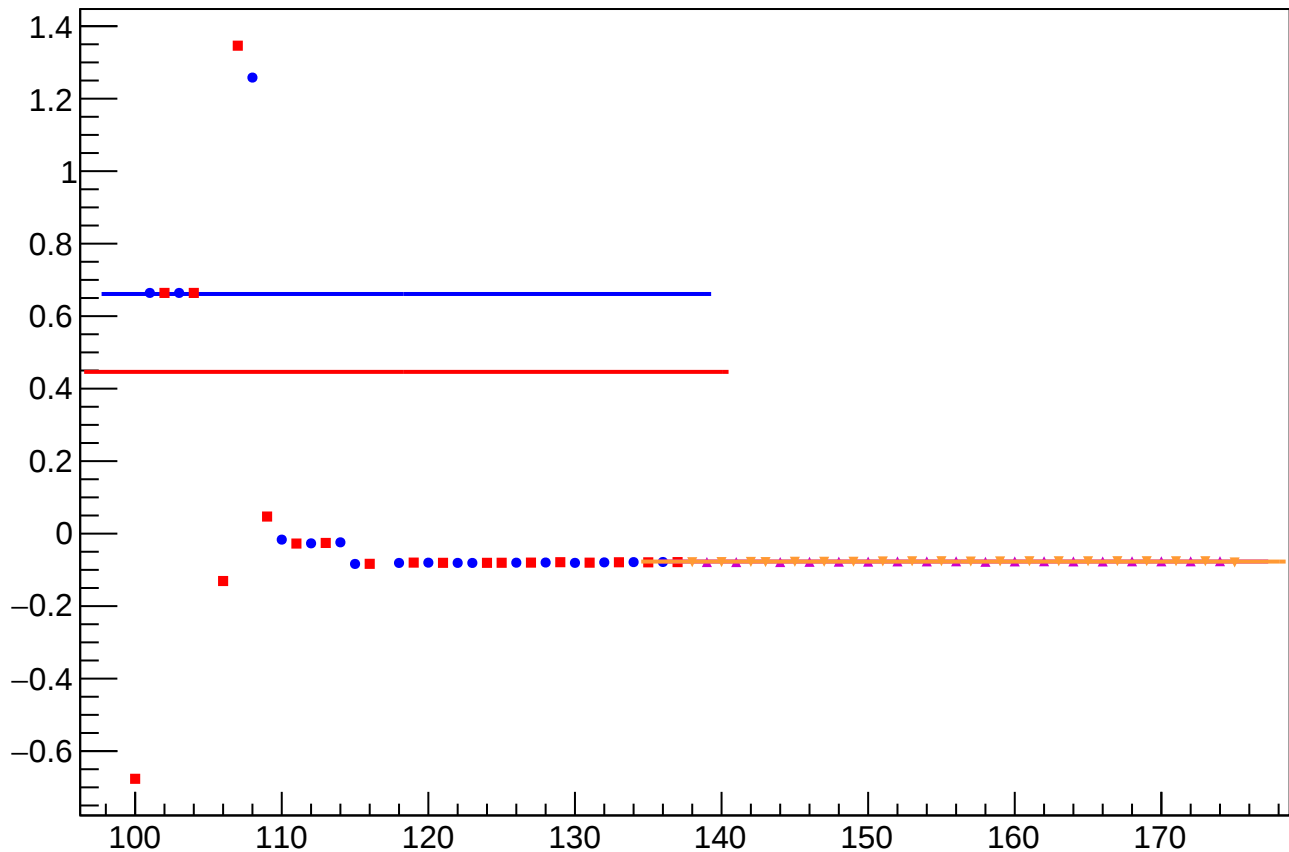
Right: 0.000+/-0.000 χ^2/NDF : 17165218.4/35

In: 0.000+/-0.000 χ^2/NDF : 30314615.2/34

Out: 0.000+/-0.000 χ^2/NDF : 32274638.5/38

All: 0.000+/-0.000 χ^2/NDF : 62589541.1/73

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 : 77999534.6/37

Left Out: -0.077+/-0.000

χ^2/NDF : 50980116.4/19

Right: 0.549+/-0.000

χ^2/NDF : 474014800057413.9

Right Out: 0.446+/-0.000

χ^2/NDF : 405428604683882.5/18

In: 0.649+/-0.000

χ^2/NDF : 28123992147276.1/34

Out: 0.438+/-0.000

χ^2/NDF : 417621078832138.4/3

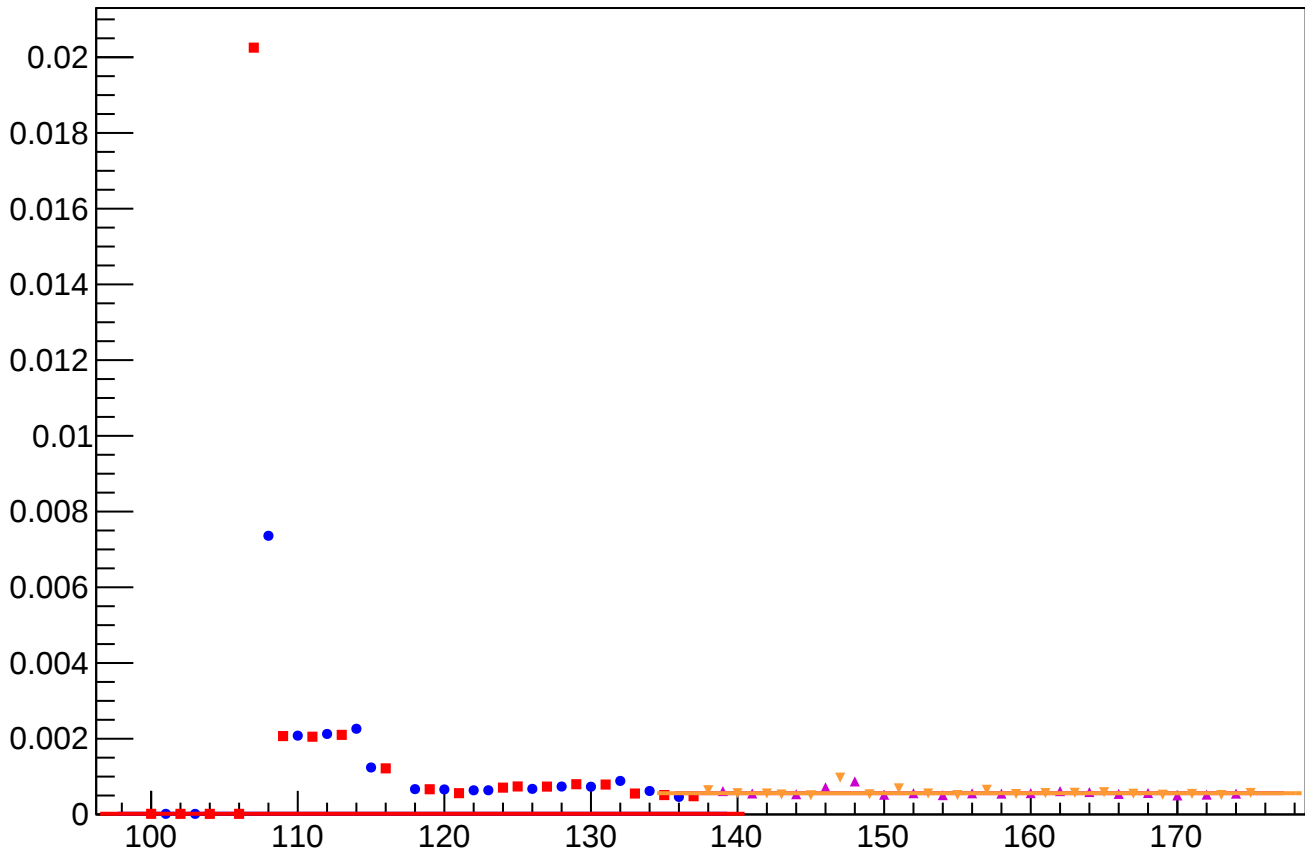
Left In: -0.077+/-0.000

χ^2/NDF : 26614676.5/17

All: 0.539+/-0.000

χ^2/NDF : 50759128261973

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9997012.7/16

Left Out: 0.001+/-0.000 χ^2/NDF : 439593.7/19

Right Out: 0.000+/-0.000 χ^2/NDF : 9500798.4/18

Left In: 0.001+/-0.000 χ^2/NDF : 352320.0/17

Left: 0.001+/-0.000 χ^2/NDF : 791996.9/37

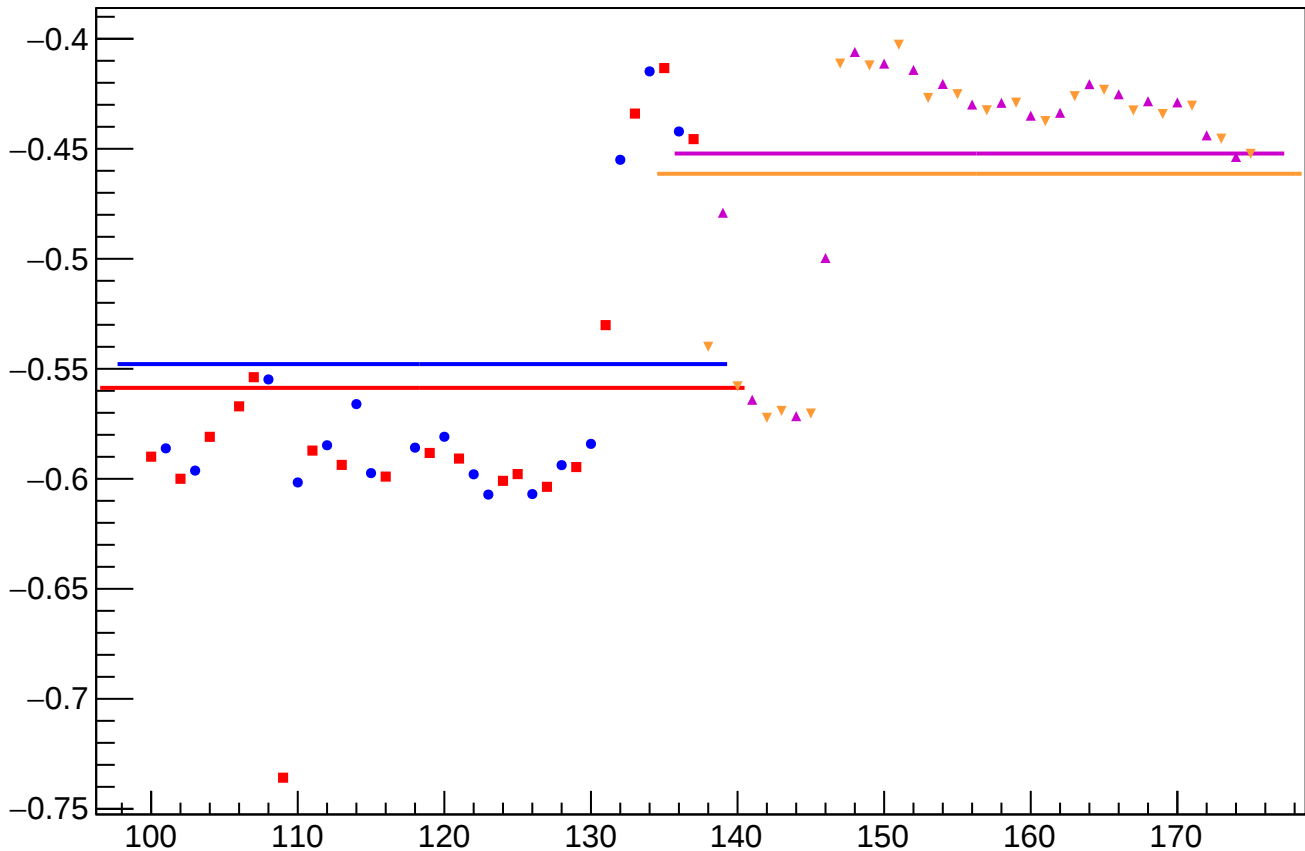
Right: 0.000+/-0.000 χ^2/NDF : 19497828.7/35

In: 0.000+/-0.000 χ^2/NDF : 34780712.4/34

Out: 0.000+/-0.000 χ^2/NDF : 36211791.1/38

All: 0.000+/-0.000 χ^2/NDF : 70992627.6/73

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48579920.8/16

Left Out: -0.461+/-0.000 χ^2/NDF : 106468892.8/19

Right Out: -0.559+/-0.000 χ^2/NDF : 65682293.5/18

Left In: -0.452+/-0.000 χ^2/NDF : 75223757.0/17

Left: -0.457+/-0.000 χ^2/NDF : 182939408.0/37

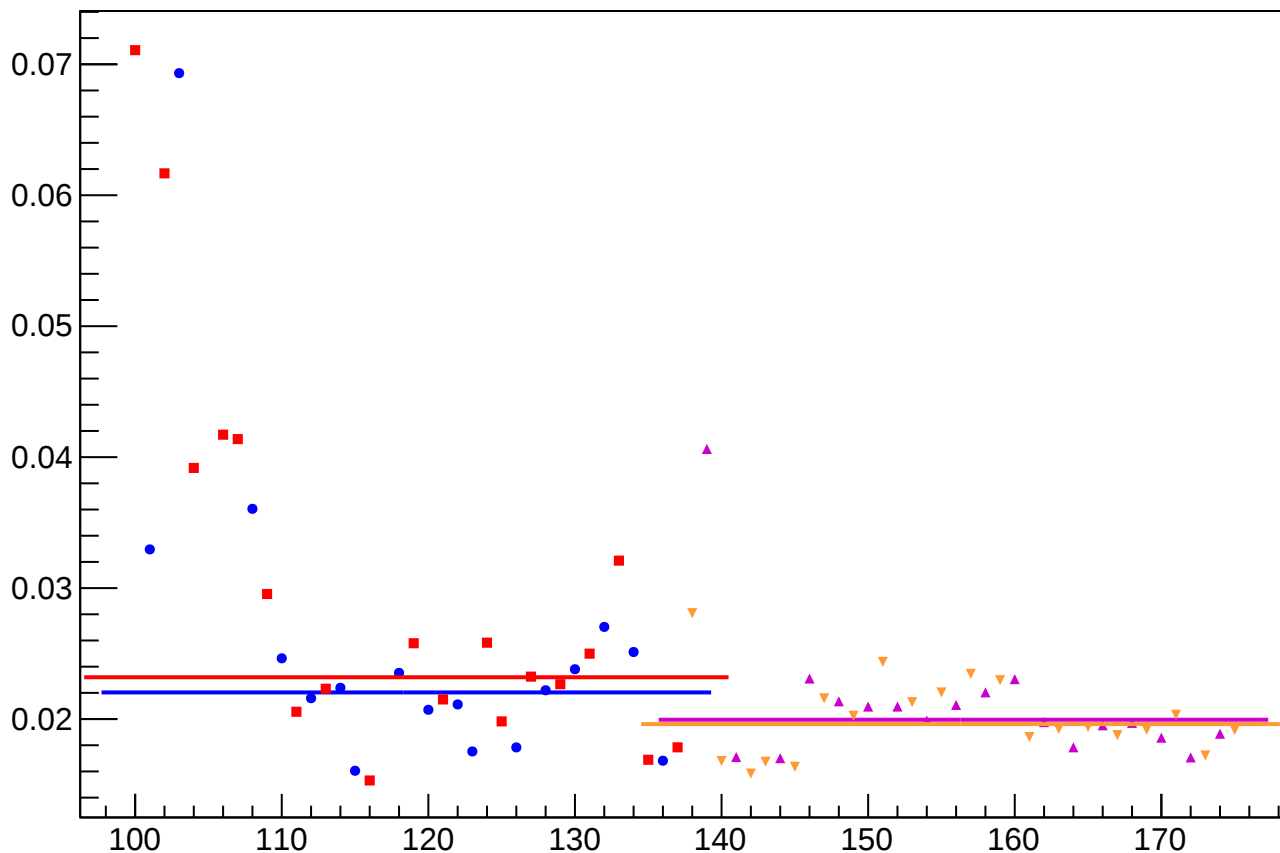
Right: -0.553+/-0.000 χ^2/NDF : 114857155.8/35

In: -0.478+/-0.000 χ^2/NDF : 193852350.0/34

Out: -0.485+/-0.000 χ^2/NDF : 243390324.4/38

All: -0.482+/-0.000 χ^2/NDF : 438097928.9/73

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 958966.6/16

Left Out: 0.020+/-0.000 χ^2/NDF : 425715.5/19

Right Out: 0.023+/-0.000 χ^2/NDF : 1156989.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 551857.2/17

Left: 0.020+/-0.000 χ^2/NDF : 980842.3/37

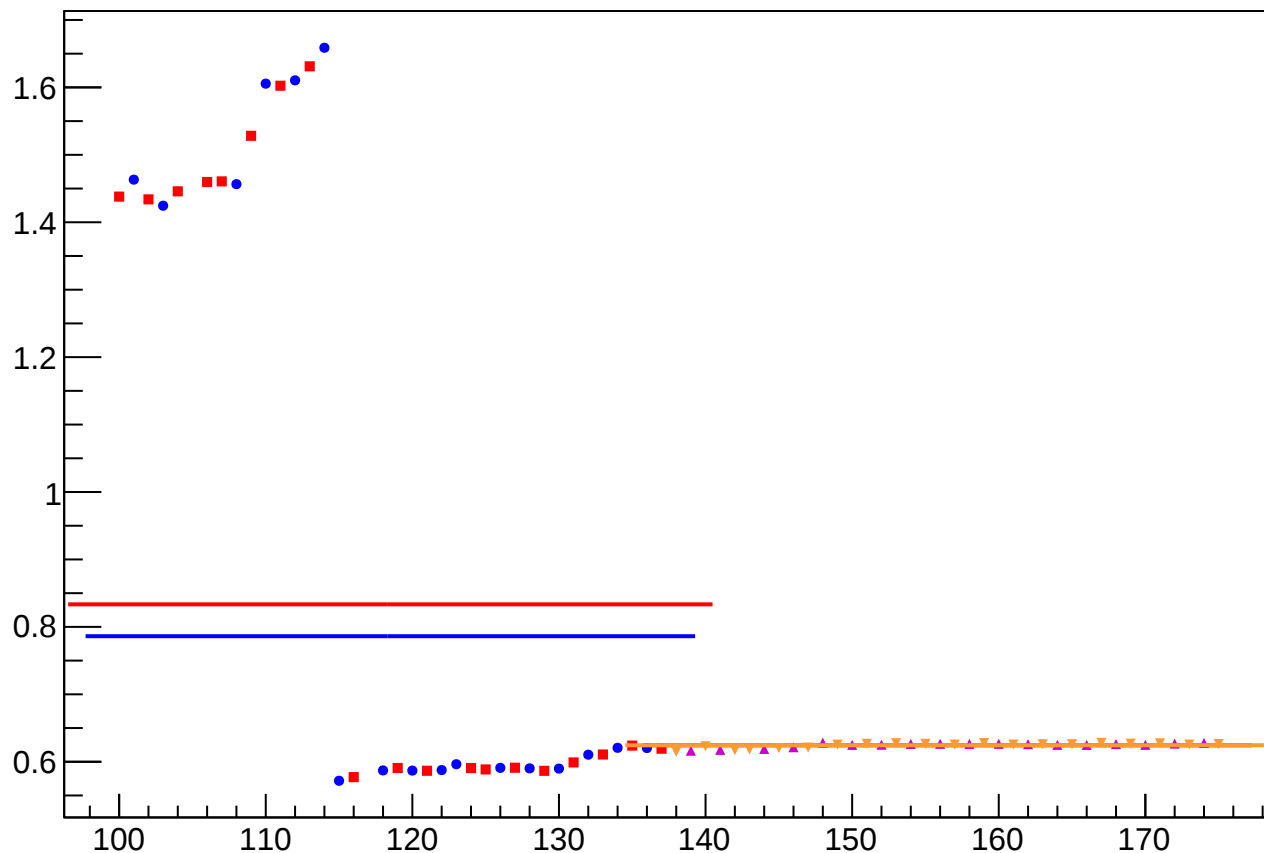
Right: 0.023+/-0.000 χ^2/NDF : 2129689.2/35

In: 0.021+/-0.000 χ^2/NDF : 1577263.3/34

Out: 0.020+/-0.000 χ^2/NDF : 1775215.2/38

All: 0.020+/-0.000 χ^2/NDF : 3352536.9/73

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.786 $\pm$ 0.000 χ^2 /NDF: 3590113316.1/16

Left Out: 0.624 $\pm$ 0.000 χ^2 /NDF:1262074.9/19

Right Out: 0.833 $\pm$ 0.000 χ^2 /NDF: 4156812252.4/18

Left In: 0.624 $\pm$ 0.000 χ^2 /NDF:1034848.3/17

Left: 0.624 $\pm$ 0.000 χ^2 /NDF: 2297509.7/37

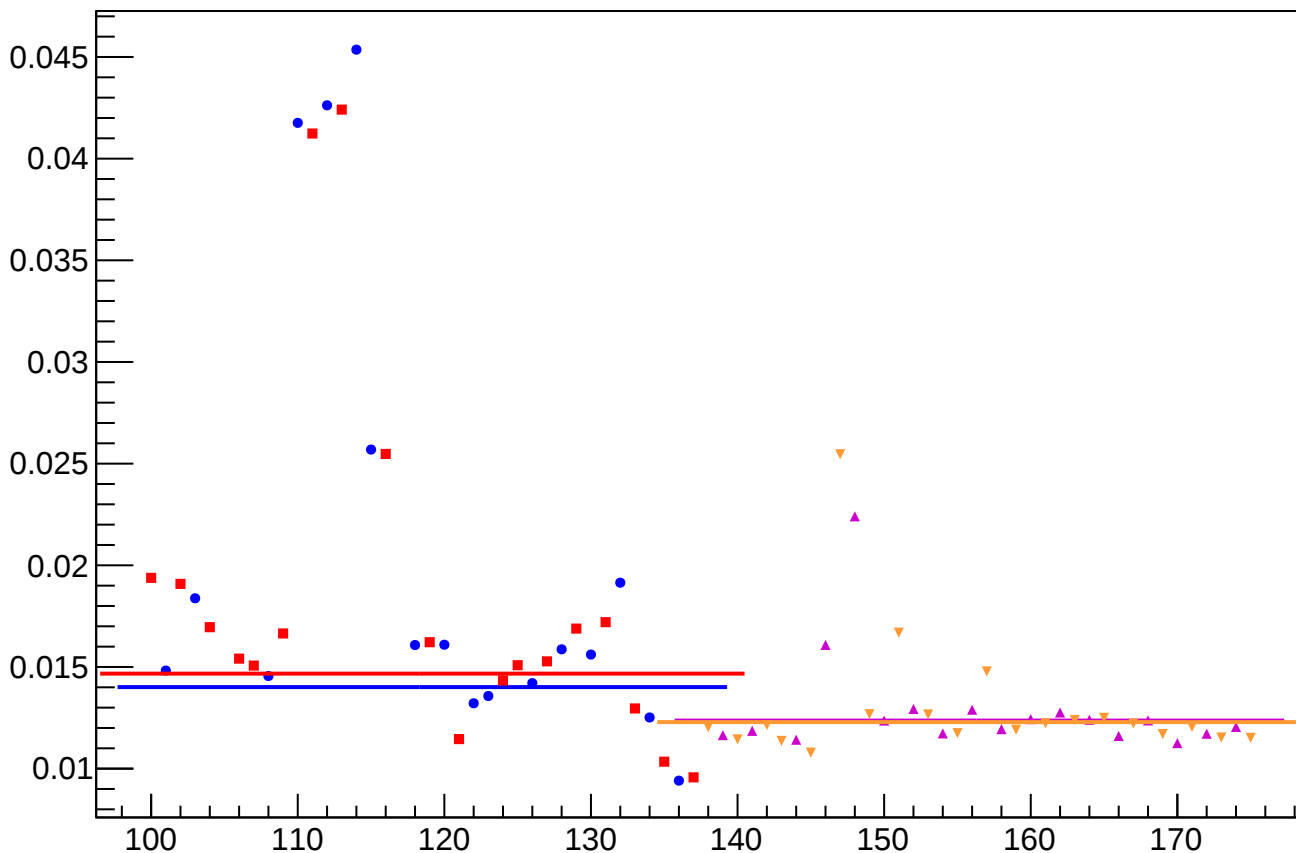
Right: 0.809 $\pm$ 0.000 χ^2 /NDF: 7778629767.1/35

In: 0.665 $\pm$ 0.000 χ^2 /NDF:4159955868.9/34

Out: 0.672 $\pm$ 0.000 χ^2 /NDF:5099645733.1/38

All: 0.668 $\pm$ 0.000 χ^2 /NDF: 9262873609.7/73

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1404865.3/16

Left Out: 0.012+/-0.000 χ^2/NDF : 612485.5/19

Right Out: 0.015+/-0.000 χ^2/NDF : 1263462.0/18

Left In: 0.012+/-0.000 χ^2/NDF : 441492.4/17

Left: 0.012+/-0.000 χ^2/NDF : 1054512.0/37

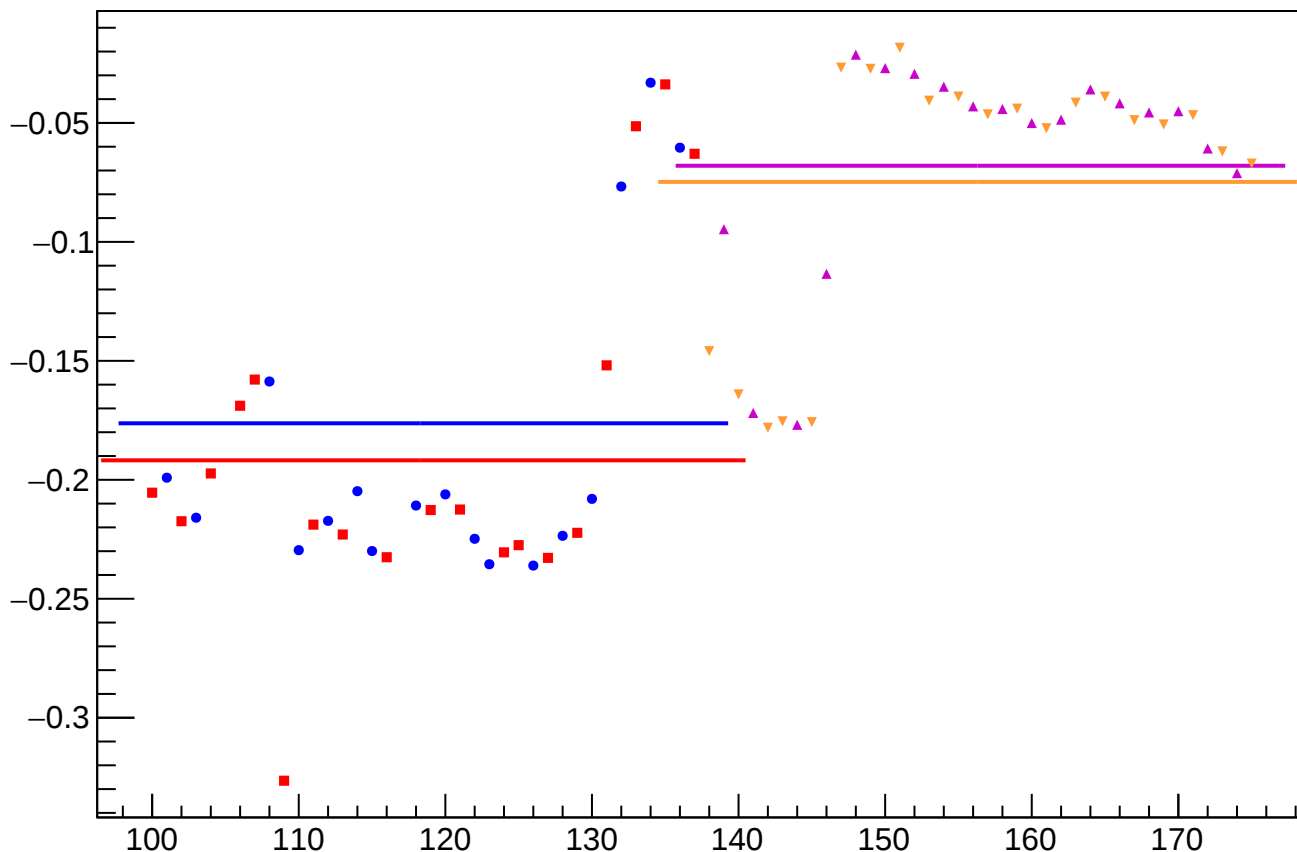
Right: 0.014+/-0.000 χ^2/NDF : 2680772.5/35

In: 0.013+/-0.000 χ^2/NDF : 1964079.4/34

Out: 0.013+/-0.000 χ^2/NDF : 2121222.2/38

All: 0.013+/-0.000 χ^2/NDF : 4085682.4/73

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70137178.3/16

Left Out: -0.075+/-0.000 χ^2/NDF : 101307839.4/19

Right Out: -0.192+/-0.000 χ^2/NDF : 83809115.6/18

Left In: -0.068+/-0.000 χ^2/NDF : 75601153.5/17

Left: -0.072+/-0.000 χ^2/NDF : 177640199.1/37

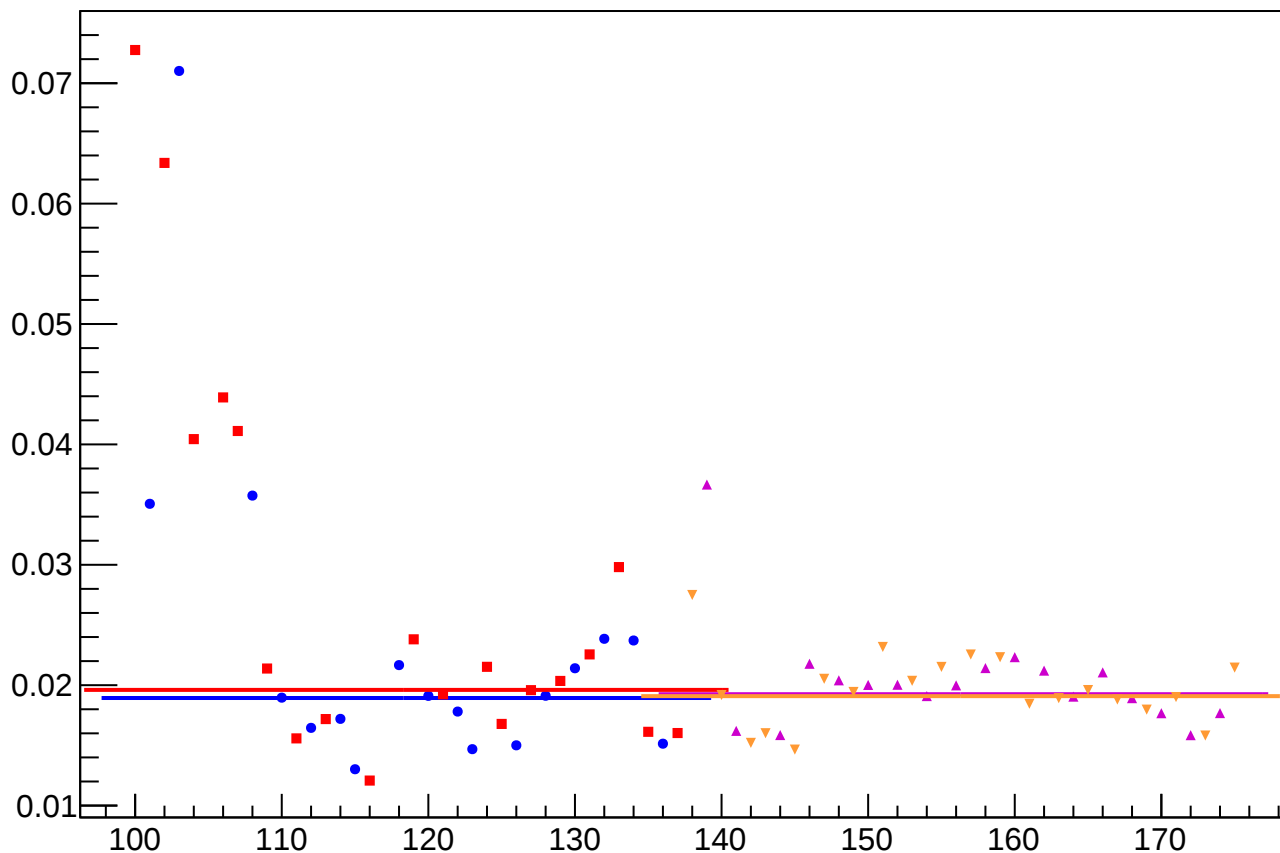
Right: -0.184+/-0.000 χ^2/NDF : 155611518.1/35

In: -0.102+/-0.000 χ^2/NDF : 257892307.4/34

Out: -0.109+/-0.000 χ^2/NDF : 316824162.0/38

All: -0.105+/-0.000 χ^2/NDF : 575660577.3/73

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1205858.0/16

Left Out: 0.019+/-0.000 χ^2/NDF : 495335.7/19

Right Out: 0.020+/-0.000 χ^2/NDF : 1457660.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 560913.6/17

Left: 0.019+/-0.000 χ^2/NDF : 1057081.2/37

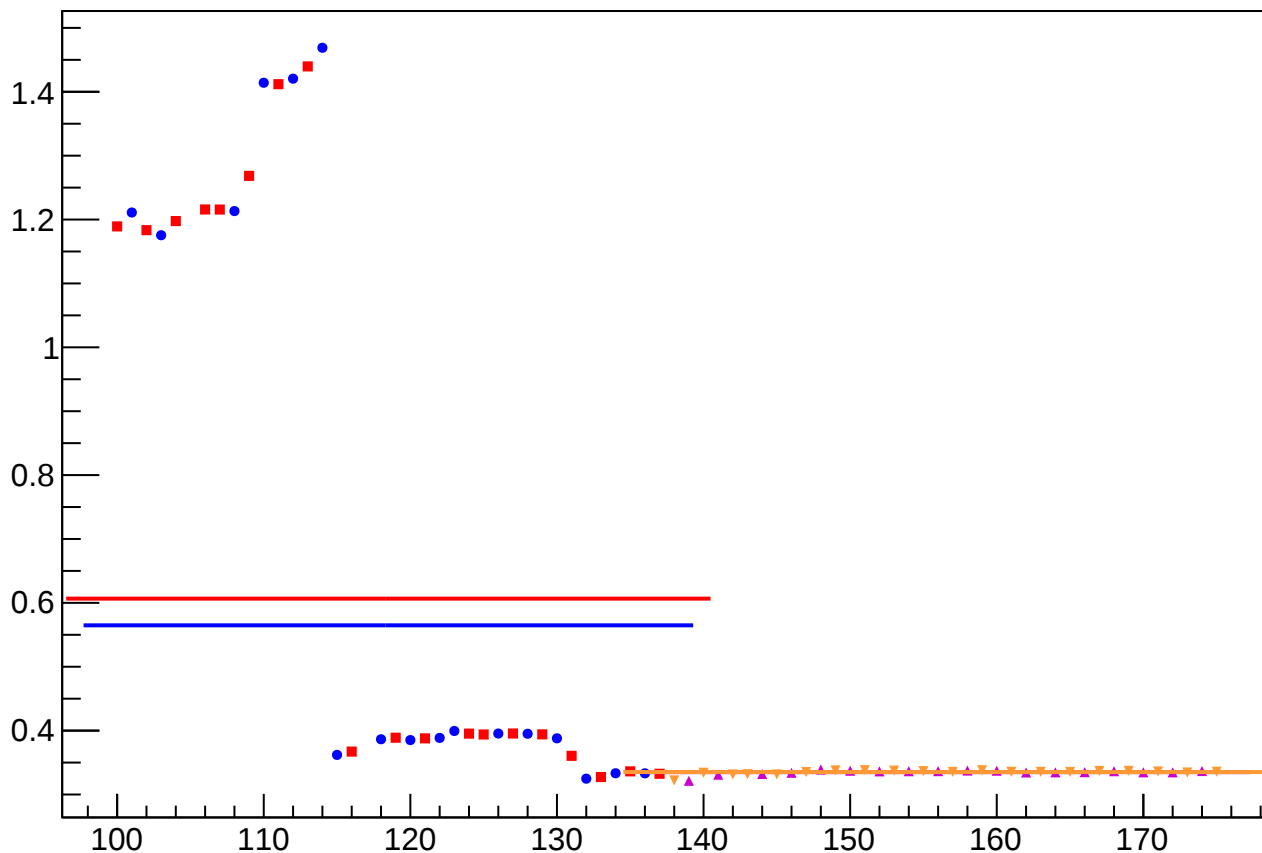
Right: 0.019+/-0.000 χ^2/NDF : 2669759.1/35

In: 0.019+/-0.000 χ^2/NDF : 1768682.3/34

Out: 0.019+/-0.000 χ^2/NDF : 1958192.2/38

All: 0.019+/-0.000 χ^2/NDF : 3727224.6/73

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565 $\pm$ 0.000 χ^2 /NDF: 5030969499.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1135961.9/19

Right Out: 0.607 $\pm$ 0.000 χ^2 /NDF: 5513752213.8/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1191610.0/17

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2328161.7/37

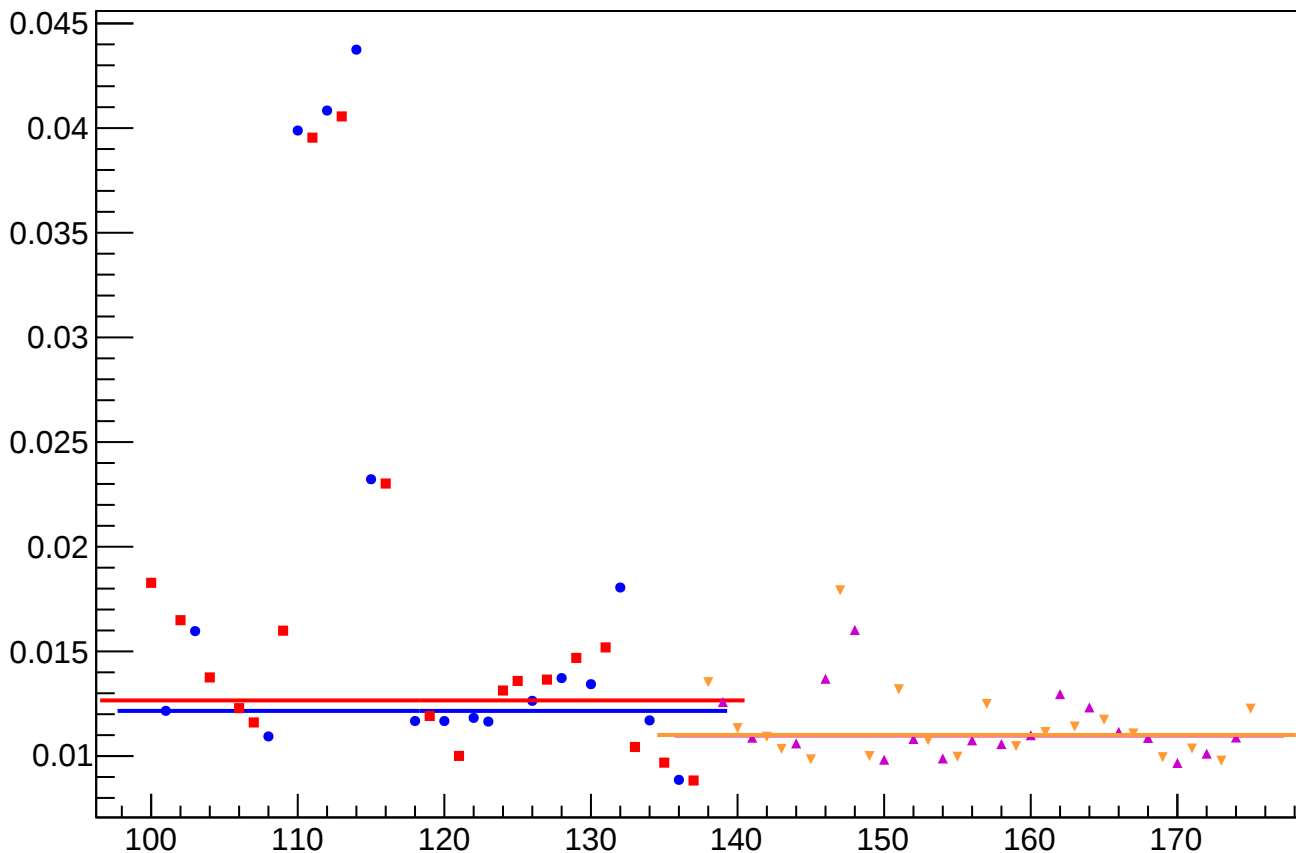
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10577520536.9/35

In: 0.395 $\pm$ 0.000 χ^2 /NDF:6532481254.7/34

Out: 0.400 $\pm$ 0.000 χ^2 /NDF:7580016301.6/38

All: 0.397 $\pm$ 0.000 χ^2 /NDF: 14114603800.5/77

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 1309888.8/16

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 467712.0/19

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 1270689.5/18

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 368173.9/17

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 835945.5/37

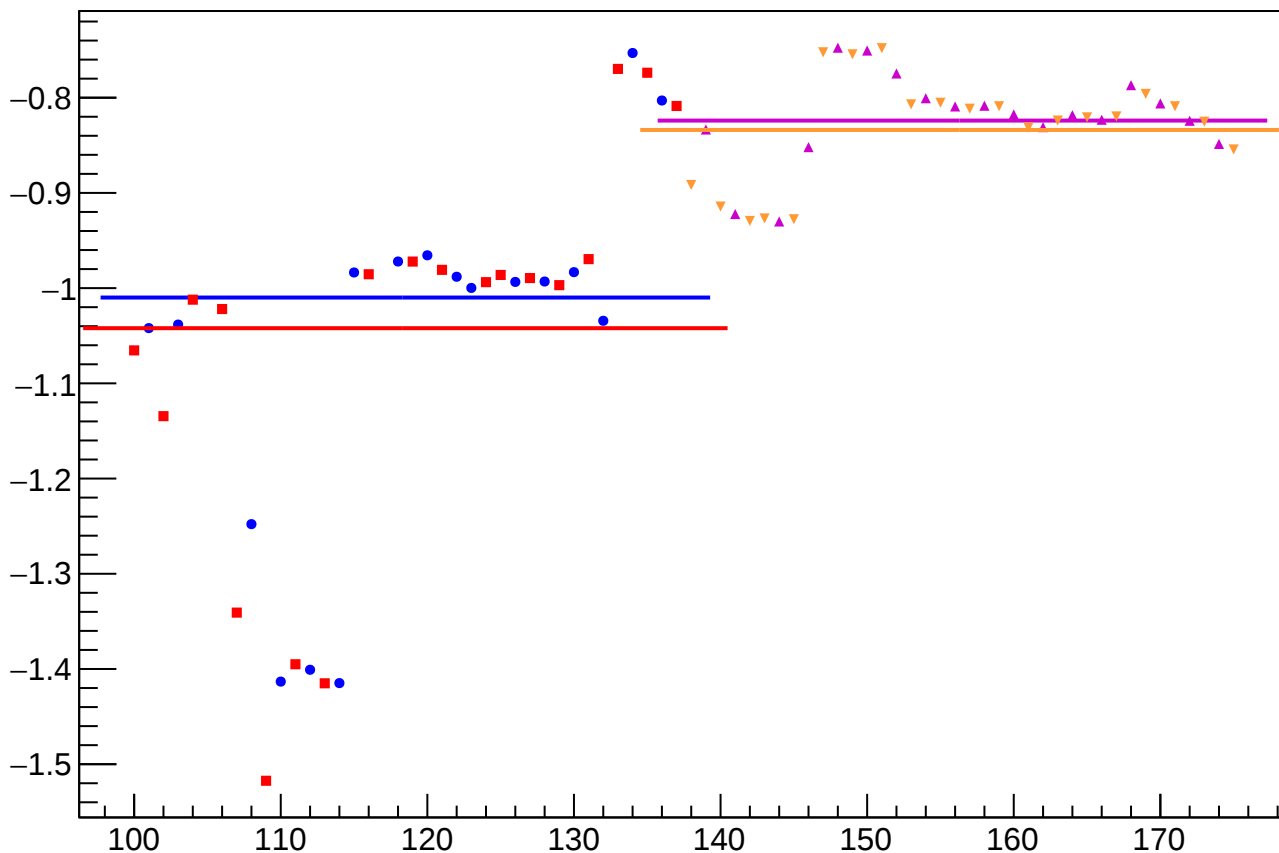
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 2589989.8/35

In: 0.011 $\pm$ 0.000 χ^2/NDF : 1756194.7/34

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 1891025.7/38

All: 0.011 $\pm$ 0.000 χ^2/NDF : 3649132.1/73

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.010+/-0.000 χ^2/NDF : 387650332.0/16

Left Out: -0.834+/-0.000 χ^2/NDF : 98575625.5/19

Right Out: -1.042+/-0.000 χ^2/NDF : 530106141.8/18

Left In: -0.824+/-0.000 χ^2/NDF : 74785419.4/17

Left: -0.829+/-0.000 χ^2/NDF : 174867338.9/37

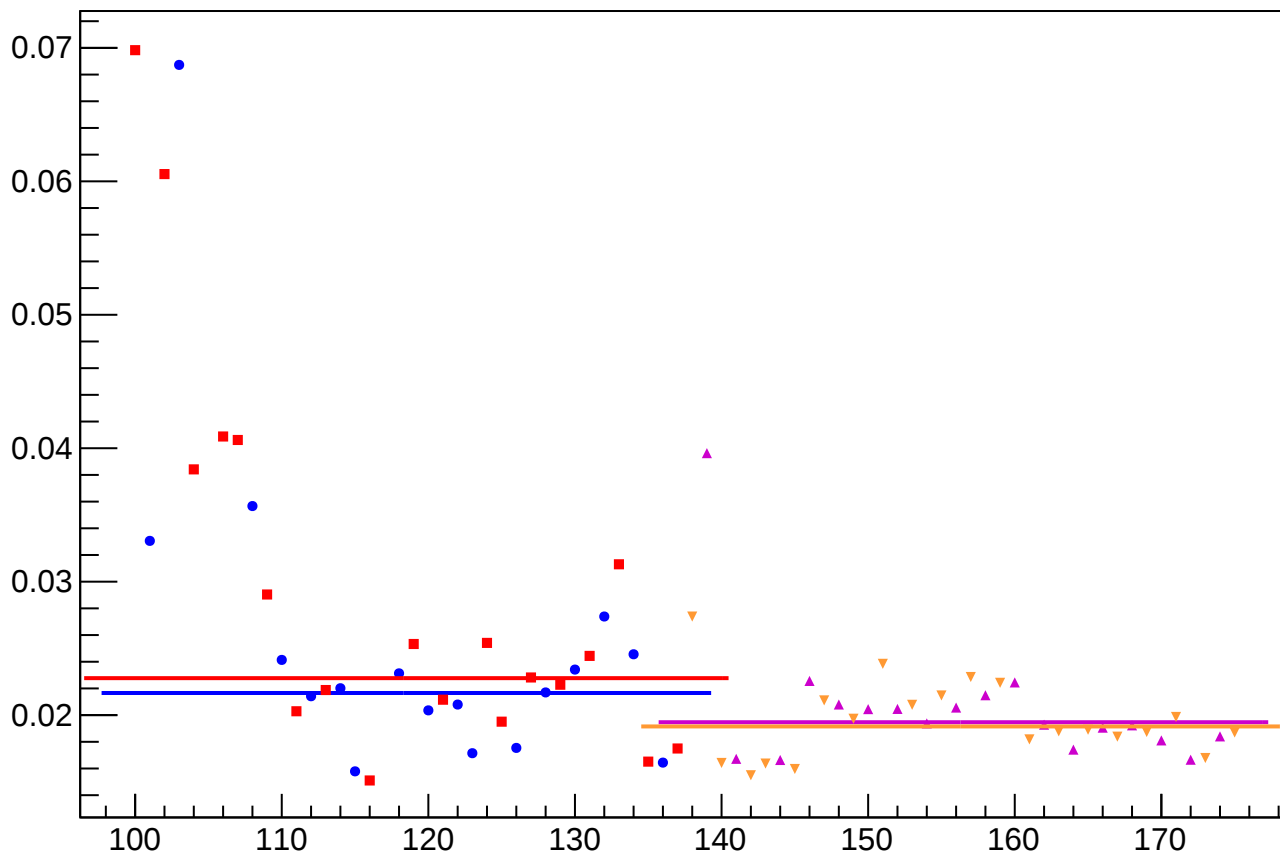
Right: -1.026+/-0.000 χ^2/NDF : 923225272.3/35

In: -0.874+/-0.000 χ^2/NDF : 736562910.5/34

Out: -0.884+/-0.000 χ^2/NDF : 967315604.8/38

All: -0.879+/-0.000 χ^2/NDF : 1705745406.1/77

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 983499.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 424160.6/19

Right Out: 0.023+/-0.000 χ^2/NDF : 1152617.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 549468.5/17

Left: 0.019+/-0.000 χ^2/NDF : 976714.6/37

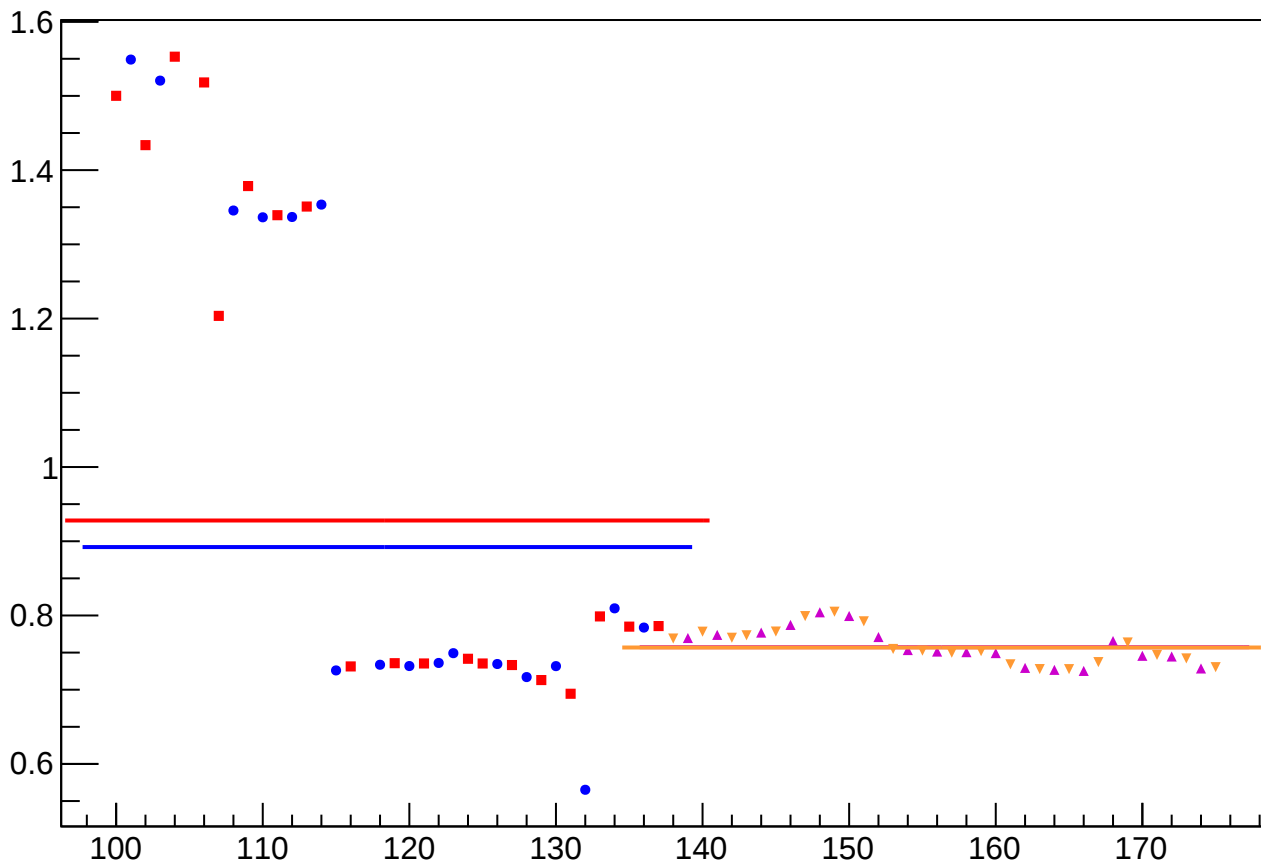
Right: 0.022+/-0.000 χ^2/NDF : 2149174.6/35

In: 0.020+/-0.000 χ^2/NDF : 1609181.0/34

Out: 0.020+/-0.000 χ^2/NDF : 1781437.9/38

All: 0.020+/-0.000 χ^2/NDF : 3390692.2/73

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.000 χ^2/NDF : 2413732173.6/16

Left Out: 0.757 $\pm$ 0.000 χ^2/NDF :43212302.7/19

Right Out: 0.928 $\pm$ 0.000 χ^2/NDF : 2437542089.2/18

Left In: 0.757 $\pm$ 0.000 χ^2/NDF :39369588.6/17

Left: 0.757 $\pm$ 0.000 χ^2/NDF : 82590691.3/37

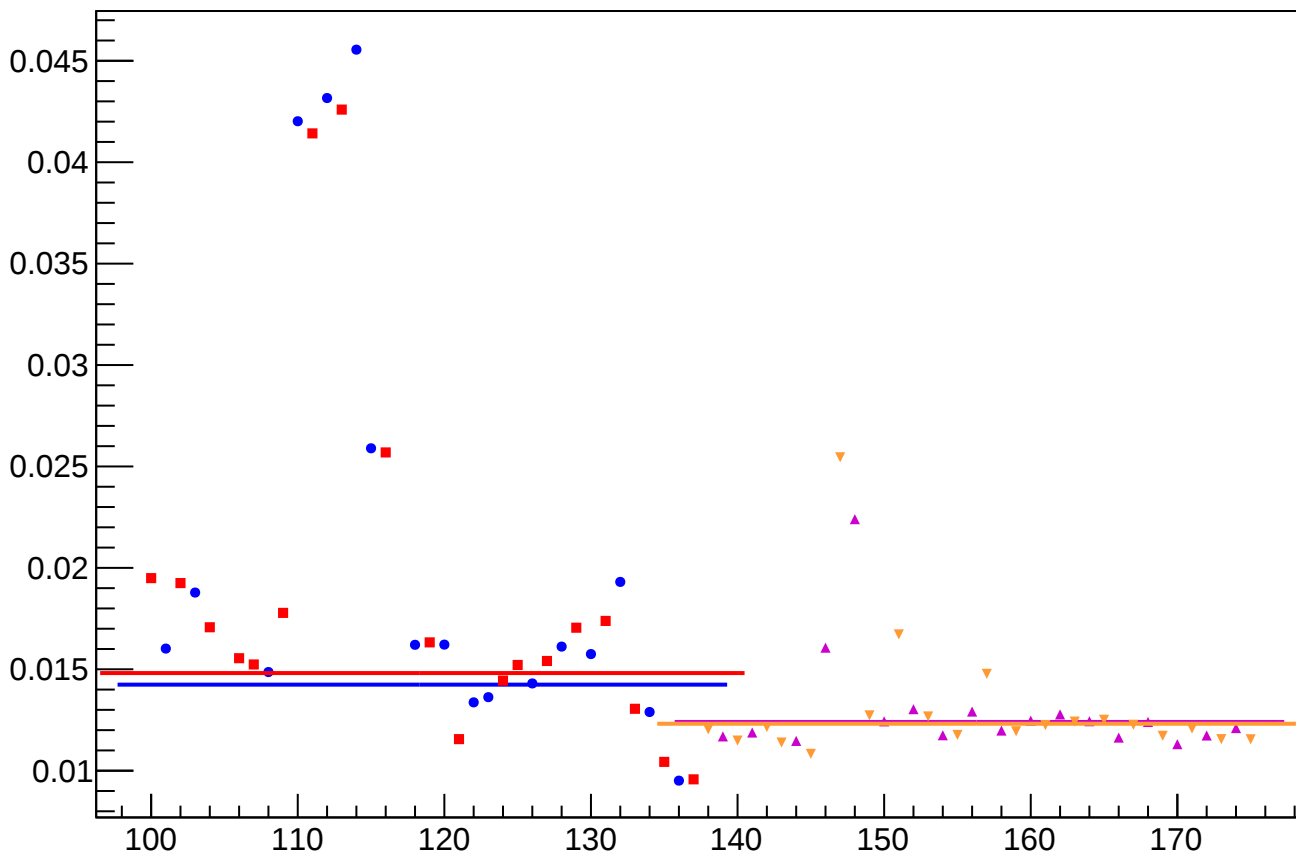
Right: 0.910 $\pm$ 0.000 χ^2/NDF : 4868922187.9/35

In: 0.790 $\pm$ 0.000 χ^2/NDF :2836438006.6/34

Out: 0.795 $\pm$ 0.000 χ^2/NDF :3100400704.7/38

All: 0.793 $\pm$ 0.000 χ^2/NDF : 5938426705.5/73

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 : 607698.5/19

Right Out: 0.015+/-0.000 χ^2/NDF : 1274172.7/18

Left In: 0.012+/-0.000 χ^2/NDF : 436945.4/17

Left: 0.012+/-0.000 χ^2/NDF : 1045336.8/37

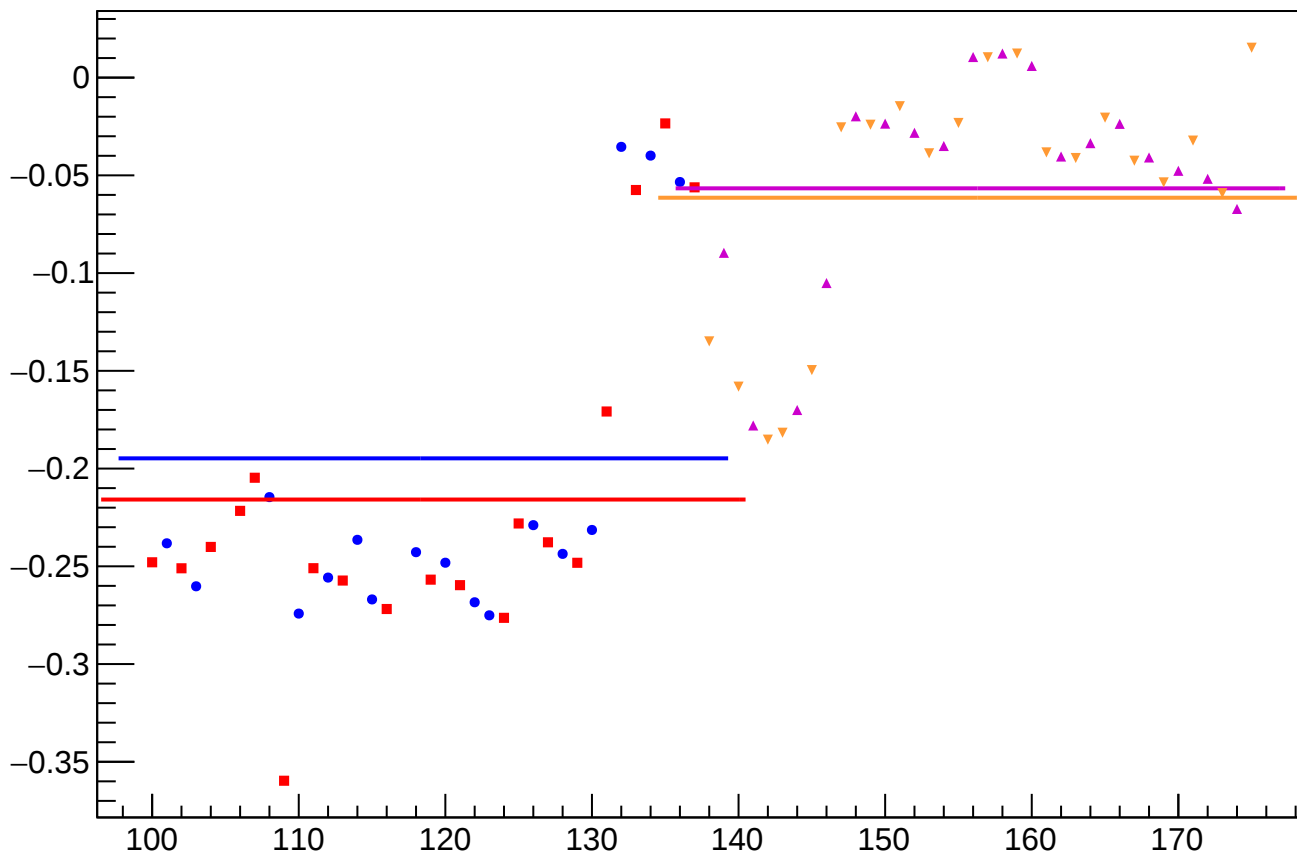
Right: 0.015+/-0.000 χ^2/NDF : 2698841.0/35

In: 0.013+/-0.000 χ^2/NDF : 1995309.2/34

Out: 0.013+/-0.000 χ^2/NDF : 2146138.3/38

All: 0.013+/-0.000 χ^2/NDF : 4141528.1/73

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.195 ± 0.000 χ^2/NDF : 108656195.5/16

Left Out: -0.061 ± 0.000 χ^2/NDF : 126349027.8/19

Right Out: -0.216 ± 0.000 χ^2/NDF : 111983904.6/18

Left In: -0.057 ± 0.000 χ^2/NDF : 97686818.2/17

Left: -0.059 ± 0.000 χ^2/NDF : 224403145.5/37

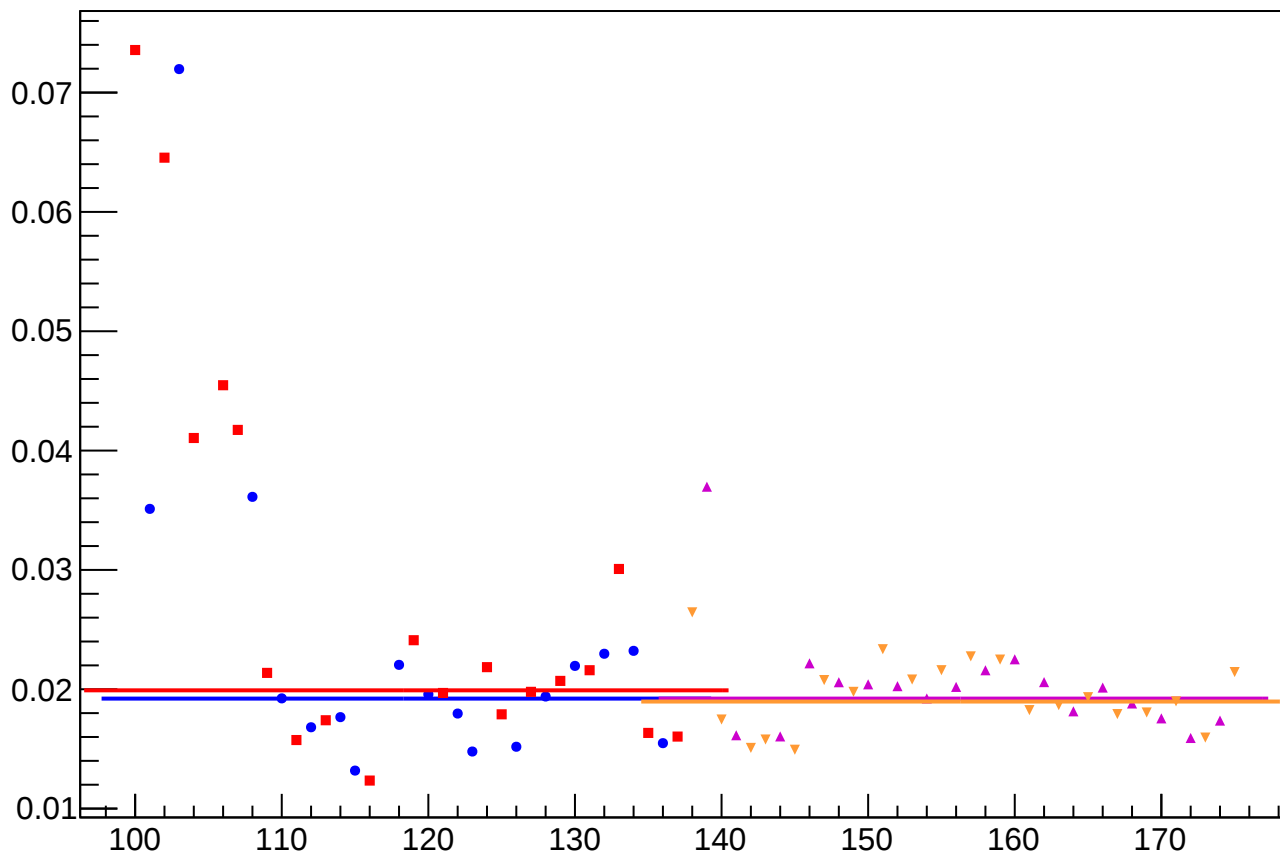
Right: -0.205 ± 0.000 χ^2/NDF : 223598203.8/35

In: -0.099 ± 0.000 χ^2/NDF : 385310401.2/34

Out: -0.105 ± 0.000 χ^2/NDF : 462560618.1/38

All: -0.102 ± 0.000 χ^2/NDF : 848540448.7/73

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1177085.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 493275.4/19

Right Out: 0.020+/-0.000 χ^2/NDF : 1446950.0/18

Left In: 0.019+/-0.000 χ^2/NDF : 573463.7/17

Left: 0.019+/-0.000 χ^2/NDF : 1068653.6/37

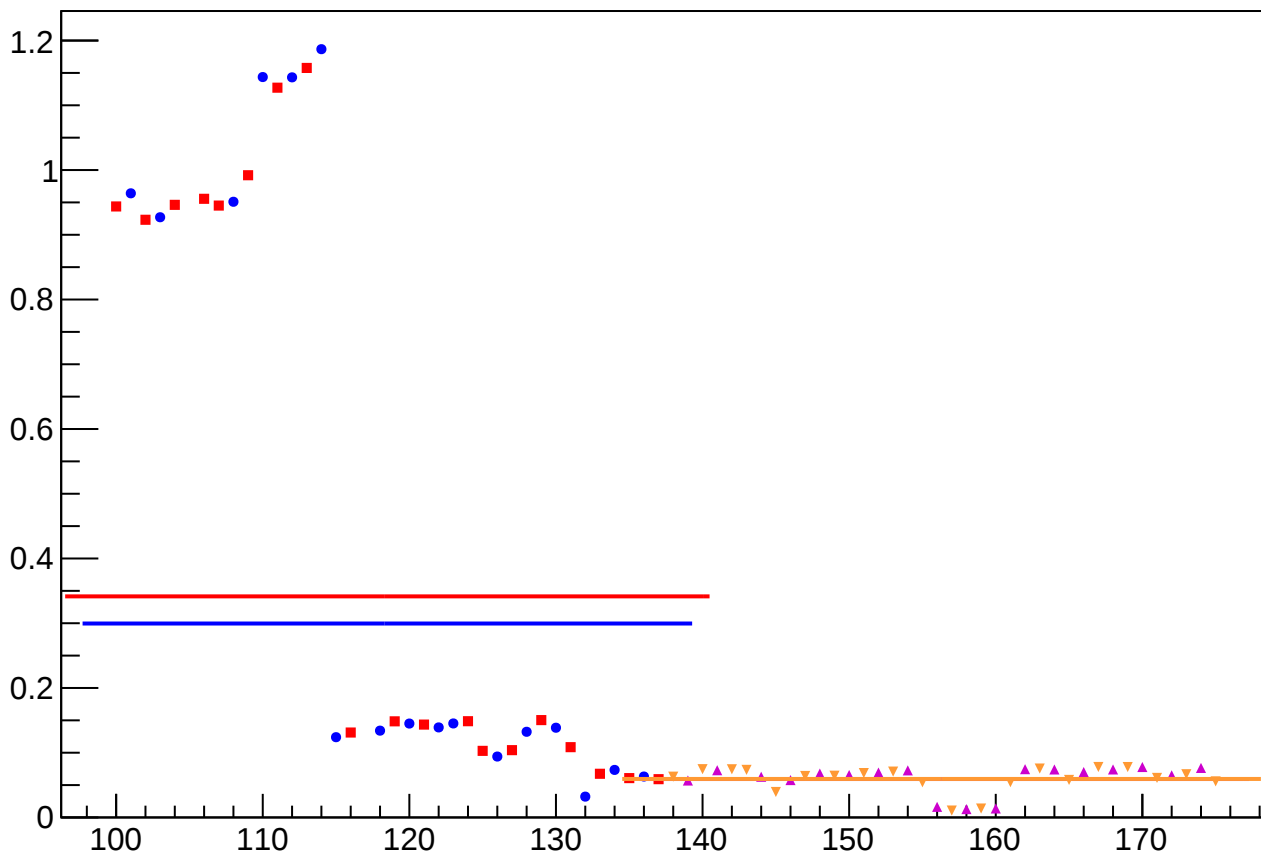
Right: 0.020+/-0.000 χ^2/NDF : 2630434.7/35

In: 0.019+/-0.000 χ^2/NDF : 1750549.1/34

Out: 0.019+/-0.000 χ^2/NDF : 1956818.5/38

All: 0.019+/-0.000 χ^2/NDF : 3707382.7/73

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.300+/-0.000 χ^2/NDF : 5165052137.6/16

Left Out: 0.059+/-0.000 χ^2/NDF : 43926122.8/19

Right Out: 0.341+/-0.000 χ^2/NDF : 5450600455.1/18

Left In: 0.059+/-0.000 χ^2/NDF : 57187911.1/17

Left: 0.059+/-0.000 χ^2/NDF : 101114817.9/37

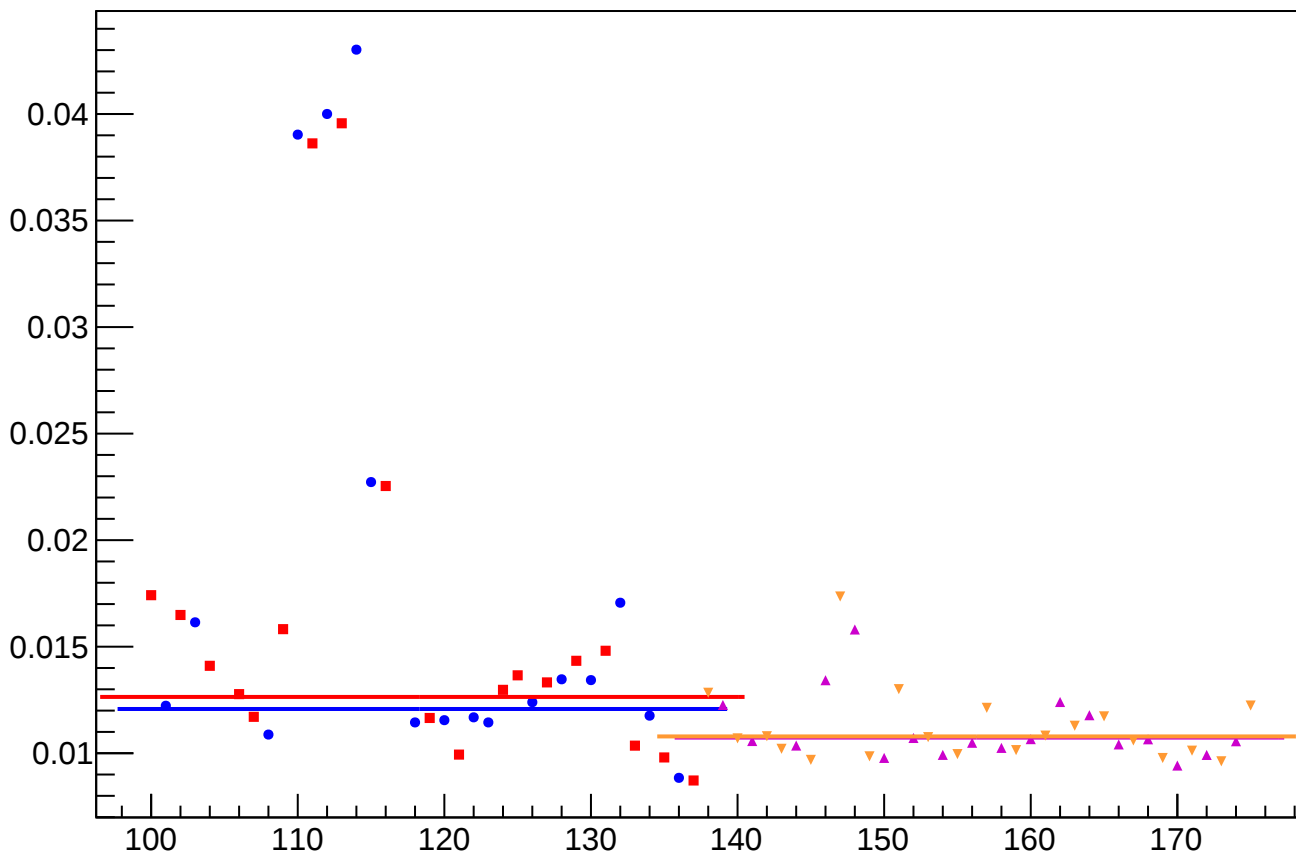
Right: 0.320+/-0.000 χ^2/NDF : 10648917928.5/35

In: 0.120+/-0.000 χ^2/NDF : 6898431462.3/34

Out: 0.125+/-0.000 χ^2/NDF : 7747103682.4/38

All: 0.123+/-0.000 χ^2/NDF : 14647307969.6/77

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:442146.8/19

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1237706.0/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:349554.1/17

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 792056.5/37

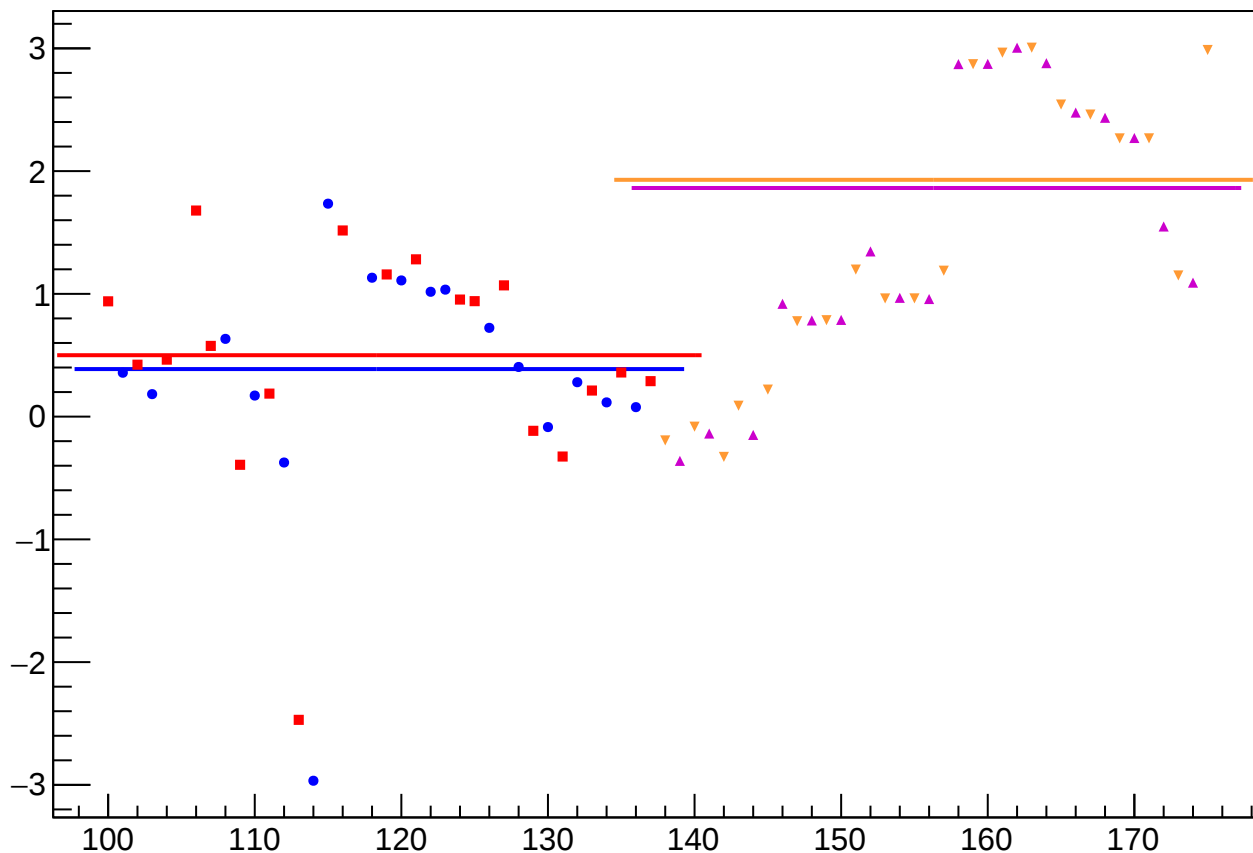
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2531931.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1736399.7/34

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1874548.9/38

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3614241.9/73

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.387+/-0.000 χ^2/NDF : 247912593.5/16

Left Out: 1.929+/-0.000 χ^2/NDF :31636281444.8/19

Right Out: 0.500+/-0.000 χ^2/NDF : 983360928.1/18

Left In: 1.862+/-0.000 χ^2/NDF :30151643931.0/17

Left: 1.896+/-0.000 χ^2/NDF : 61875217096.4/37

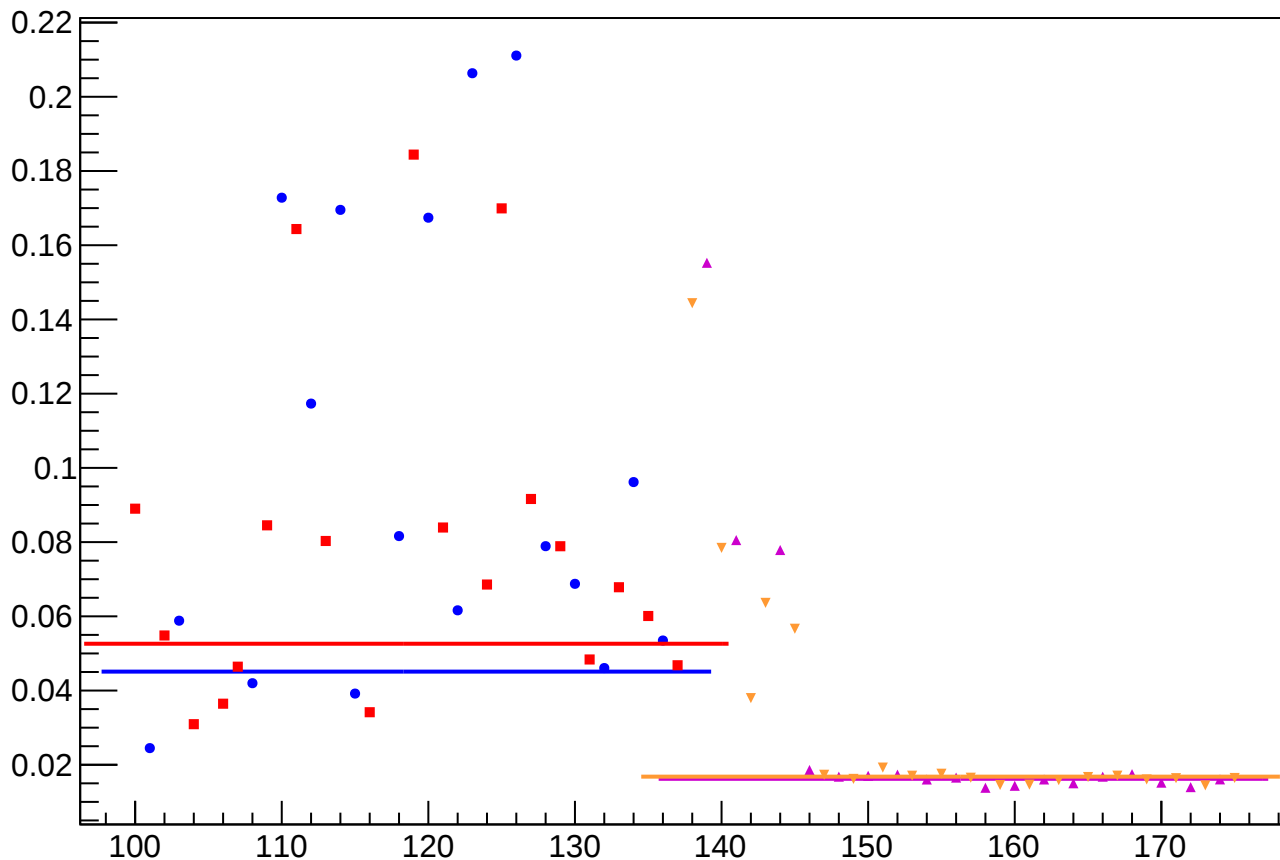
Right: 0.439+/-0.000 χ^2/NDF : 1241544973.3/35

In: 1.800+/-0.000 χ^2/NDF :34043426247.7/34

Out: 1.877+/-0.000 χ^2/NDF :35555436640.4/38

All: 1.838+/-0.000 χ^2/NDF : 69719591420.0/77

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2846218.9/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2775850.0/19

Right Out: 0.053+/-0.000 χ^2/NDF : 2190515.9/18

Left In: 0.016+/-0.000 χ^2/NDF : 2380671.8/17

Left: 0.017+/-0.000 χ^2/NDF : 5169996.6/37

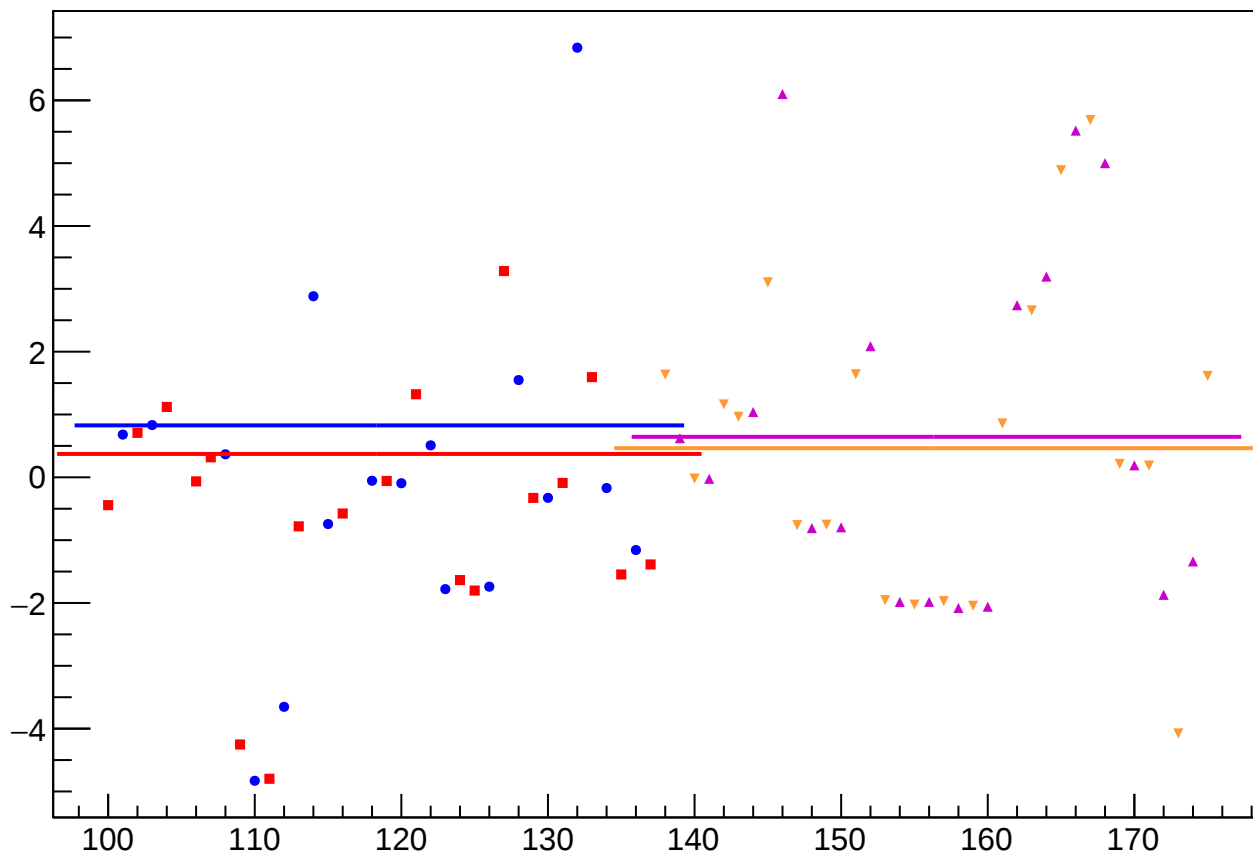
Right: 0.049+/-0.000 χ^2/NDF : 5127581.4/35

In: 0.017+/-0.000 χ^2/NDF : 8021631.9/34

Out: 0.018+/-0.000 χ^2/NDF : 8654527.1/38

All: 0.018+/-0.000 χ^2/NDF : 16694756.5/73

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000 χ^2/NDF : 10936458870.4/16

Left Out: 0.464+/-0.000 χ^2/NDF : 474340249987.1/19

Right Out: 0.372+/-0.000 χ^2/NDF : 4972900338.2/18

Left In: 0.644+/-0.000 χ^2/NDF : 538408227127.1/17

Left: 0.554+/-0.000 χ^2/NDF : 1013798211416.0/37

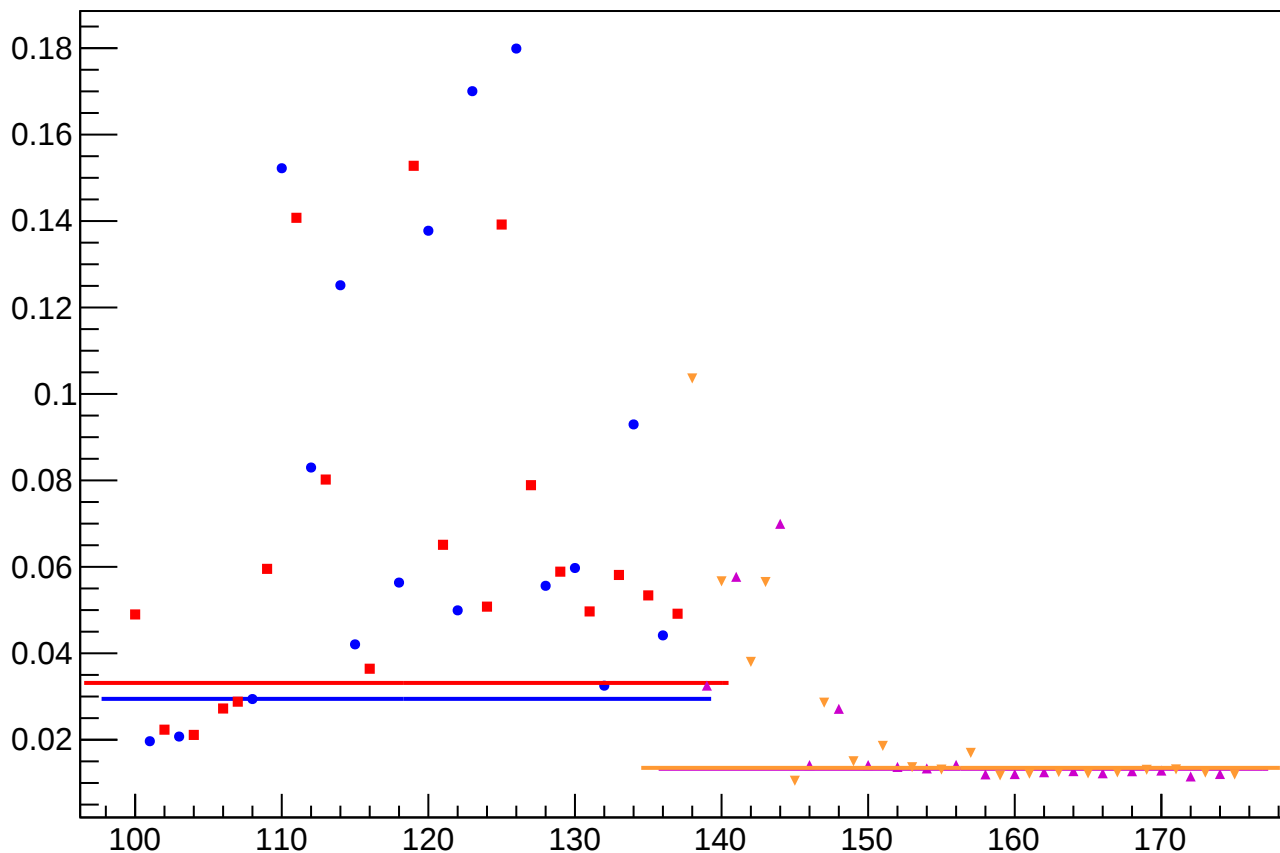
Right: 0.613+/-0.000 χ^2/NDF : 16291516809.6/35

In: 0.655+/-0.000 χ^2/NDF : 549467778575.3/34

Out: 0.460+/-0.000 χ^2/NDF : 479341231431.2/38

All: 0.557+/-0.000 χ^2/NDF : 1030114153142.

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 :2890997.5/19

Right Out: 0.033+/-0.000 χ^2/NDF : 3096820.9/18

Left In: 0.013+/-0.000 χ^2/NDF :1927350.6/17

Left: 0.013+/-0.000 χ^2/NDF : 4821292.7/37

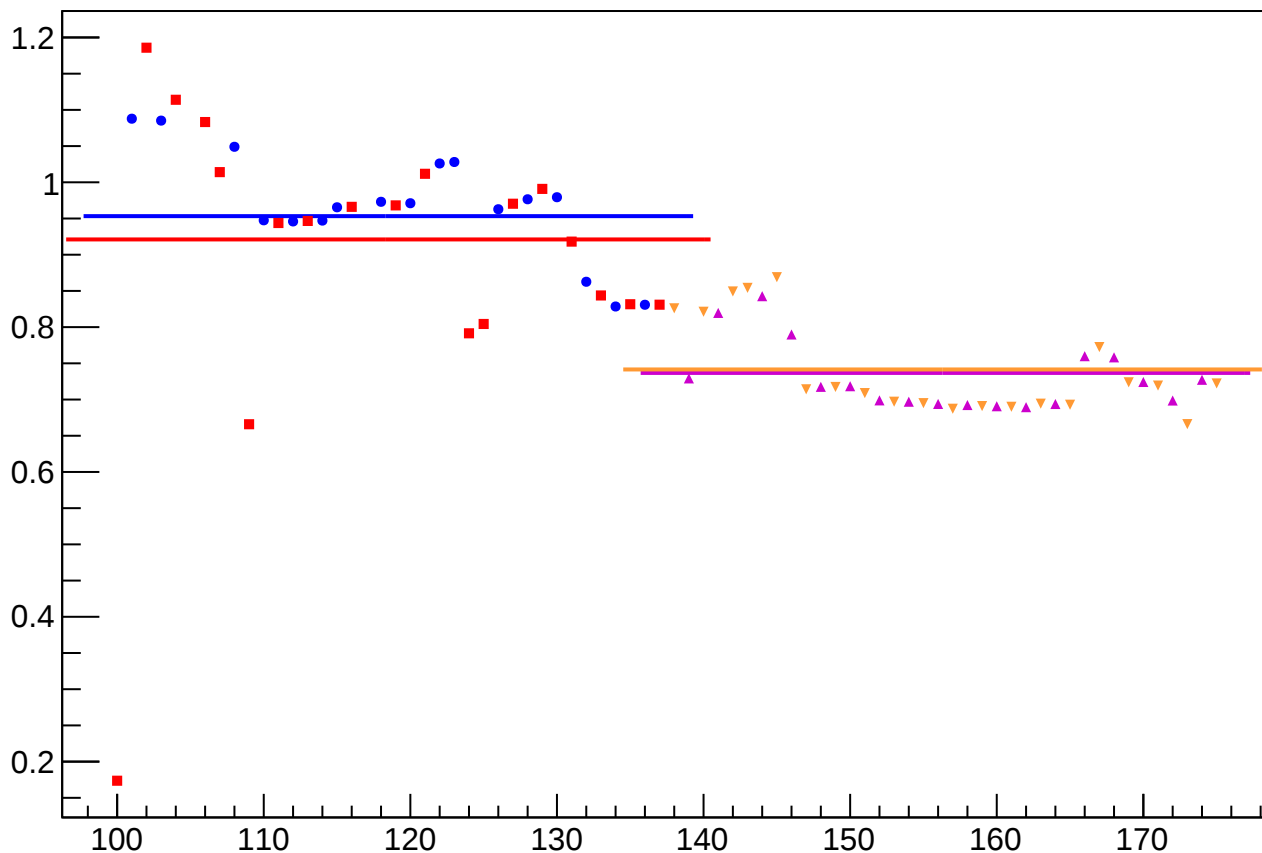
Right: 0.031+/-0.000 χ^2/NDF : 6200704.9/35

In: 0.014+/-0.000 χ^2/NDF :6921885.6/34

Out: 0.014+/-0.000 χ^2/NDF :8551729.6/38

All: 0.014+/-0.000 χ^2/NDF : 15479132.6/73

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953+/-0.000 χ^2/NDF : 175396553.4/16

Left Out: 0.742+/-0.000 χ^2/NDF : 290596044.1/19

Right Out: 0.921+/-0.000 χ^2/NDF : 374221279.1/18

Left In: 0.737+/-0.000 χ^2/NDF : 163921213.6/17

Left: 0.739+/-0.000 χ^2/NDF : 455299928.5/37

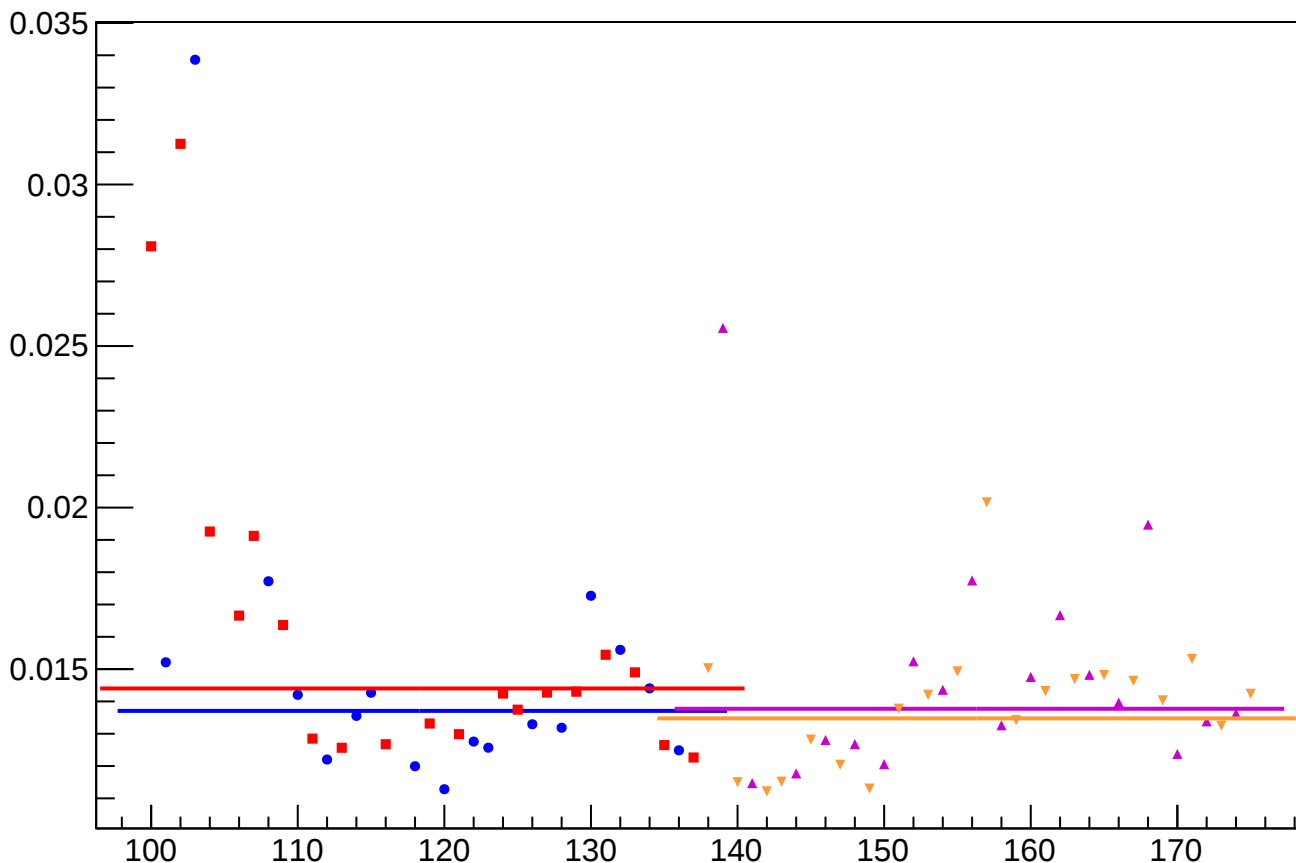
Right: 0.938+/-0.000 χ^2/NDF : 565209467.5/35

In: 0.807+/-0.000 χ^2/NDF : 1321853598.9/34

Out: 0.793+/-0.000 χ^2/NDF : 1337591902.3/38

All: 0.800+/-0.000 χ^2/NDF : 2668065476.5/73

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546317.6/16

Left Out: 0.013+/-0.000 χ^2/NDF : 397772.5/19

Right Out: 0.014+/-0.000 χ^2/NDF : 501768.8/18

Left In: 0.014+/-0.000 χ^2/NDF : 725792.6/17

Left: 0.014+/-0.000 χ^2/NDF : 1129595.8/37

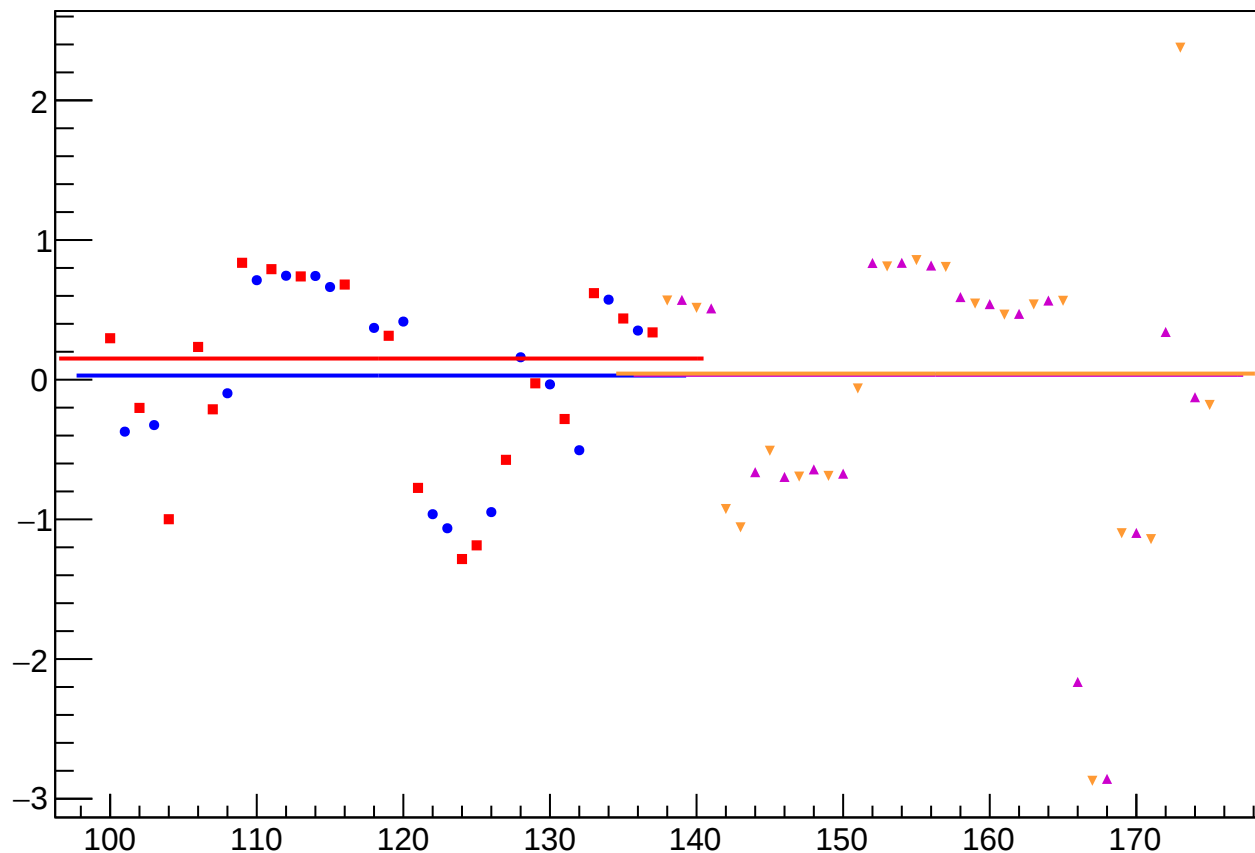
Right: 0.014+/-0.000 χ^2/NDF : 1062610.4/35

In: 0.014+/-0.000 χ^2/NDF : 1272290.2/34

Out: 0.014+/-0.000 χ^2/NDF : 935308.7/38

All: 0.014+/-0.000 χ^2/NDF : 2207605.6/73

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 6294824795.0/16

Left Out: 0.044+/-0.000 χ^2/NDF : 95134438318.2/19

Right Out: 0.152+/-0.000 χ^2/NDF : 12661812059.7/18

Left In: 0.035+/-0.000 χ^2/NDF : 78267841783.8/17

Left: 0.039+/-0.000 χ^2/NDF : 173405874717.4/37

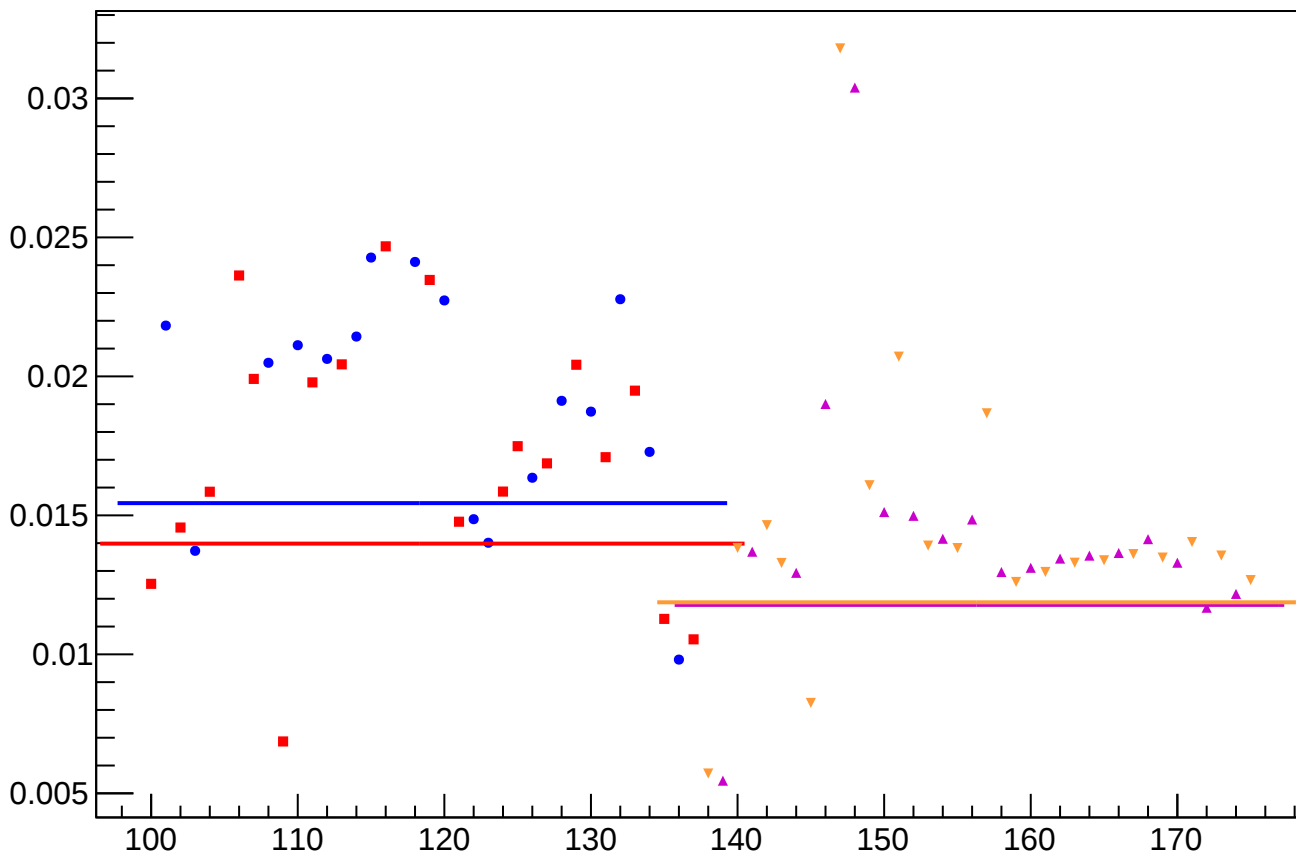
Right: 0.096+/-0.000 χ^2/NDF : 19149304558.7/35

In: 0.034+/-0.000 χ^2/NDF : 84563123873.1/34

Out: 0.070+/-0.000 χ^2/NDF : 108049010637.1/38

All: 0.052+/-0.000 χ^2/NDF : 192686257256.1

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1161852.5/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3045231.1/19

Right Out: 0.014+/-0.000 χ^2/NDF : 1560788.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 2940516.1/17

Left: 0.012+/-0.000 χ^2/NDF : 5986507.5/37

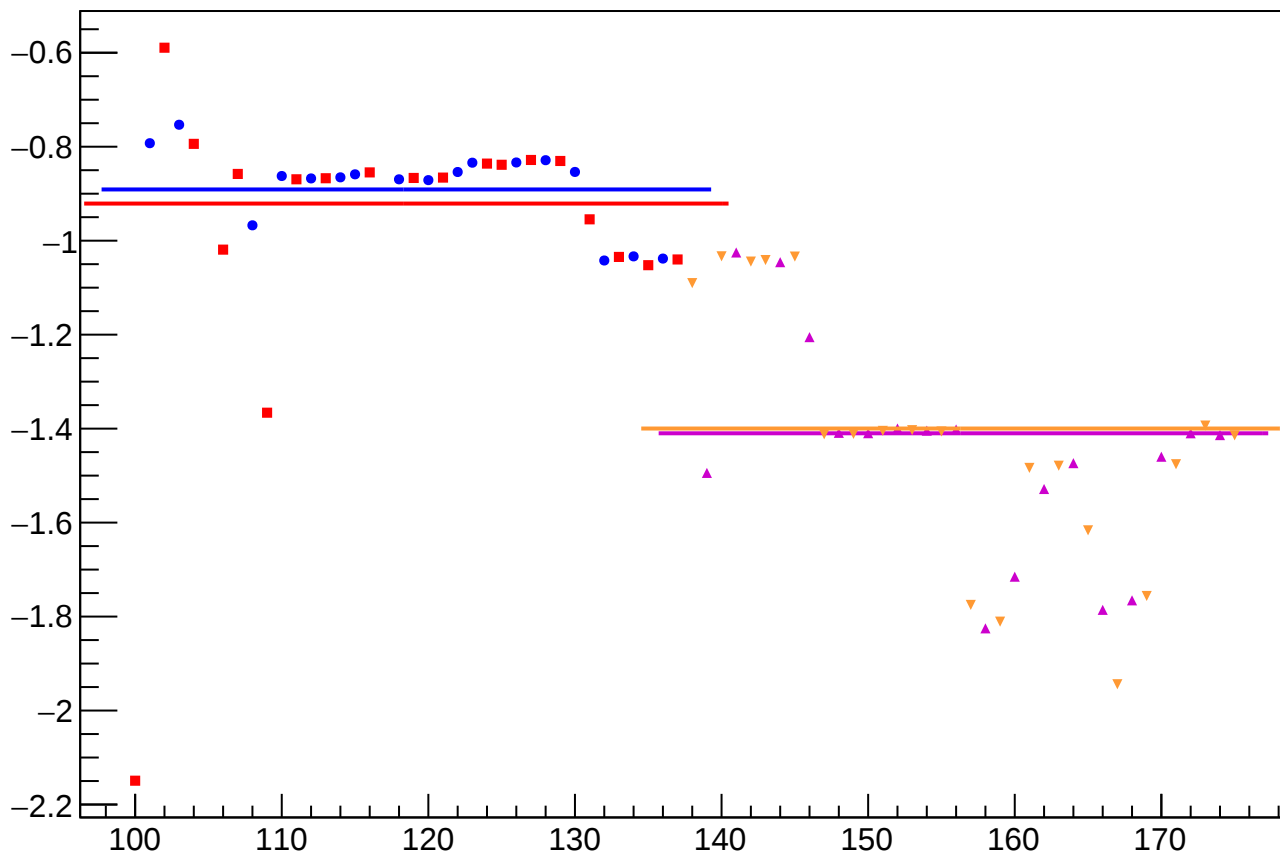
Right: 0.015+/-0.000 χ^2/NDF : 2777678.6/35

In: 0.013+/-0.000 χ^2/NDF : 4599707.2/34

Out: 0.012+/-0.000 χ^2/NDF : 4799859.7/38

All: 0.012+/-0.000 χ^2/NDF : 9403942.0/73

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 χ^2/NDF : 39578323.2/16

Left Out: -1.400 ± 0.000 χ^2/NDF : 718096448.5/19

Right Out: -0.921 ± 0.000 χ^2/NDF : 131183059.9/18

Left In: -1.410 ± 0.000 χ^2/NDF : 511078360.3/17

Left: -1.405 ± 0.000 χ^2/NDF : 1229701450.9/37

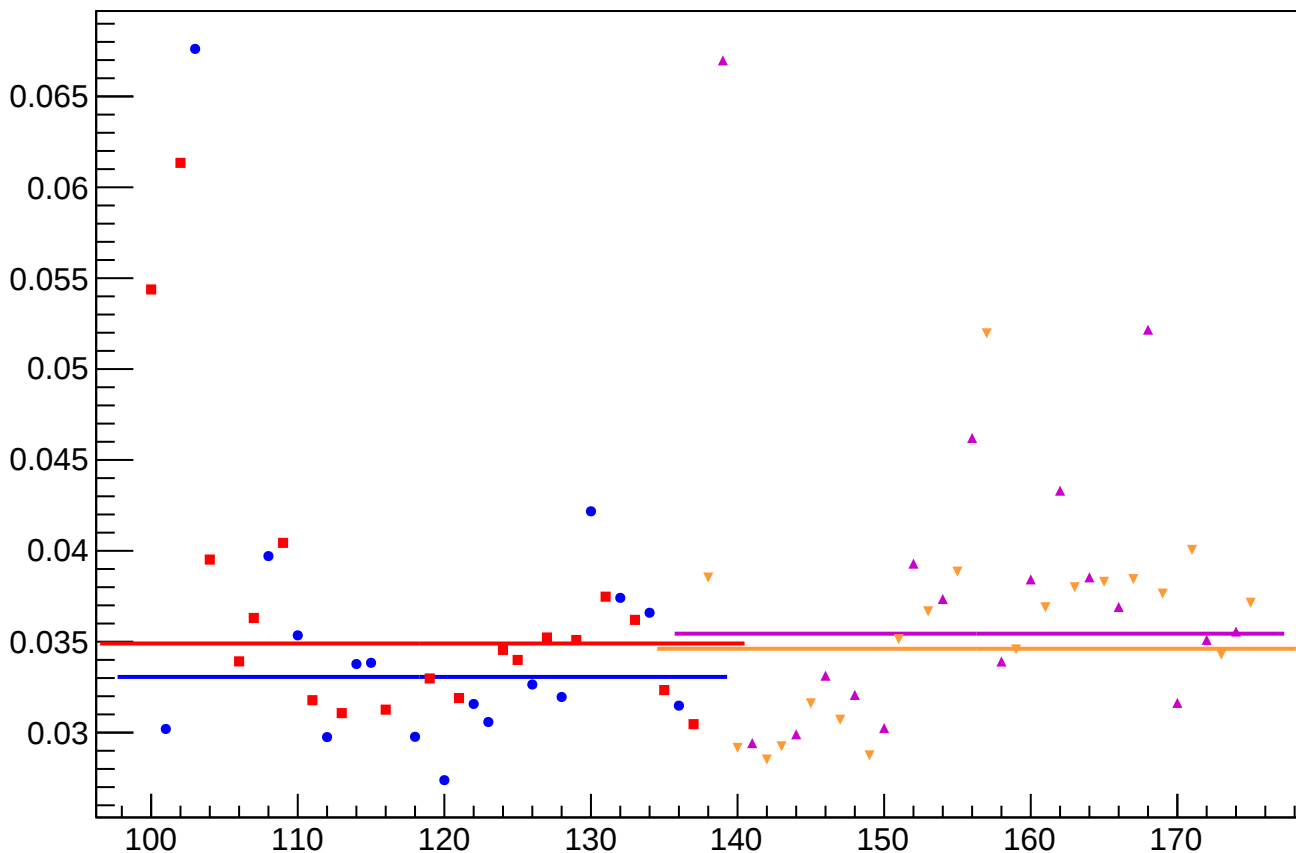
Right: -0.906 ± 0.000 χ^2/NDF : 173111604.1/35

In: -1.225 ± 0.000 χ^2/NDF : 1481590146.5/34

Out: -1.247 ± 0.000 χ^2/NDF : 1639103262.4/38

All: -1.236 ± 0.000 χ^2/NDF : 3124615936.8/7

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 409286.7/16

Left Out: 0.035+/-0.000 χ^2/NDF :455744.3/19

Right Out: 0.035+/-0.000 χ^2/NDF : 274270.8/18

Left In: 0.035+/-0.000 χ^2/NDF :808882.9/17

Left: 0.035+/-0.000 χ^2/NDF : 1271666.2/37

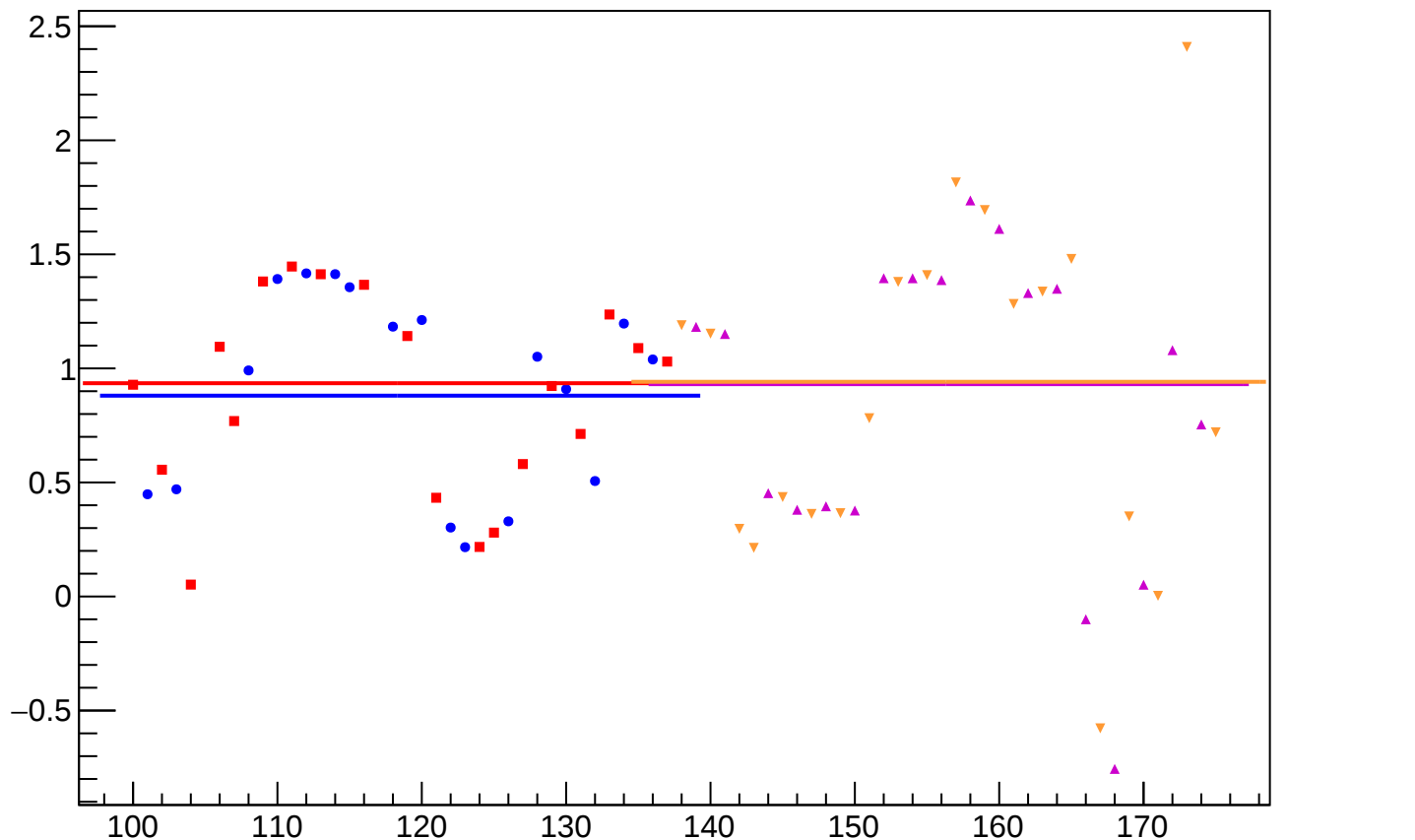
Right: 0.034+/-0.000 χ^2/NDF : 701180.7/35

In: 0.035+/-0.000 χ^2/NDF :1257316.9/34

Out: 0.035+/-0.000 χ^2/NDF :730592.2/38

All: 0.035+/-0.000 χ^2/NDF : 1988099.4/73

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880+/-0.000 χ^2/NDF : 6400108121.4/16

Left Out: 0.941+/-0.000 χ^2/NDF : 82610868394.9/19

Right Out: 0.935+/-0.000 χ^2/NDF : 9833525935.6/18

Left In: 0.931+/-0.000 χ^2/NDF : 65557263145.8/17

Left: 0.936+/-0.000 χ^2/NDF : 148177216673.2/37

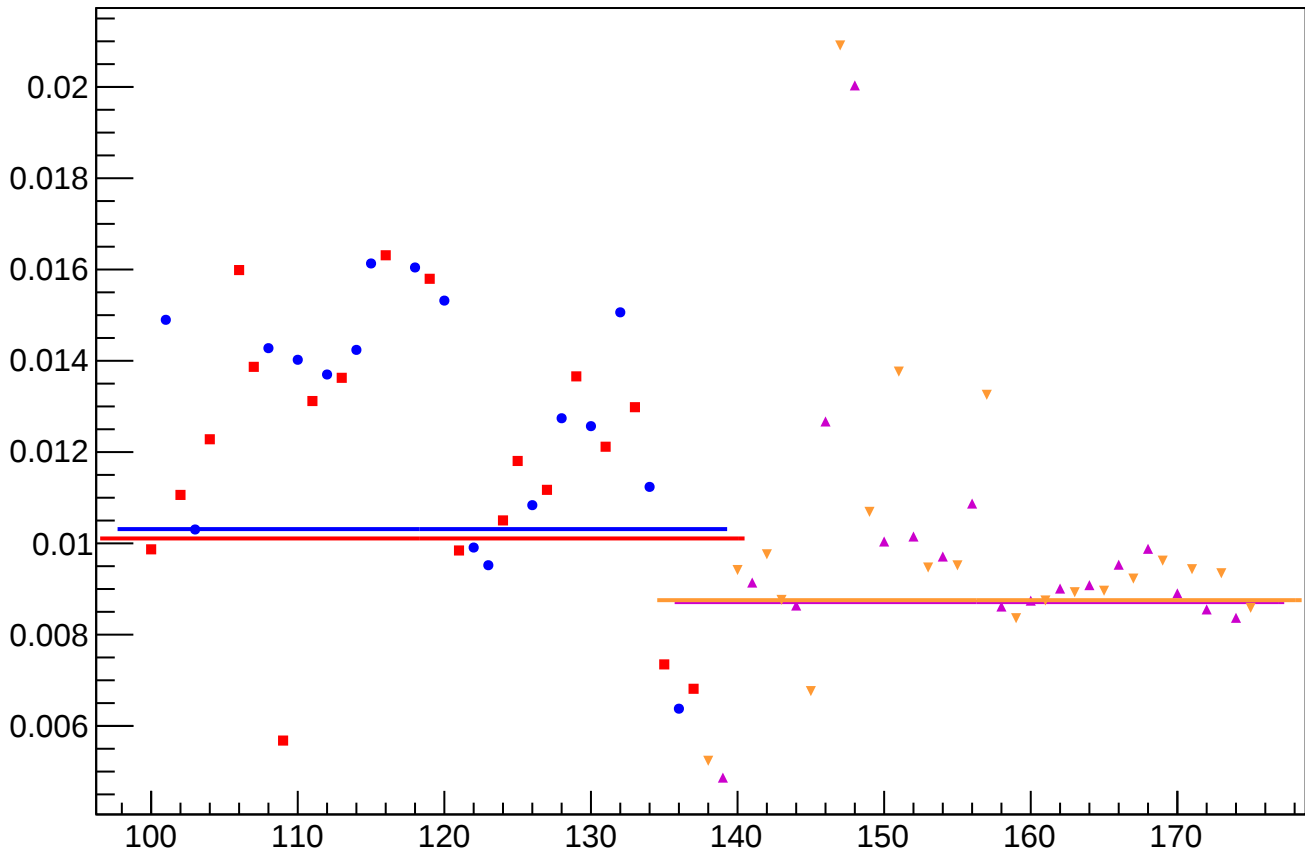
Right: 0.909+/-0.000 χ^2/NDF : 16315238009.2/35

In: 0.919+/-0.000 χ^2/NDF : 72058913433.1/34

Out: 0.940+/-0.000 χ^2/NDF : 92446053148.7/38

All: 0.930+/-0.000 χ^2/NDF : 164554830257.1

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1231066.2/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1694109.8/19

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1178489.1/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1595611.2/17

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3290024.9/37

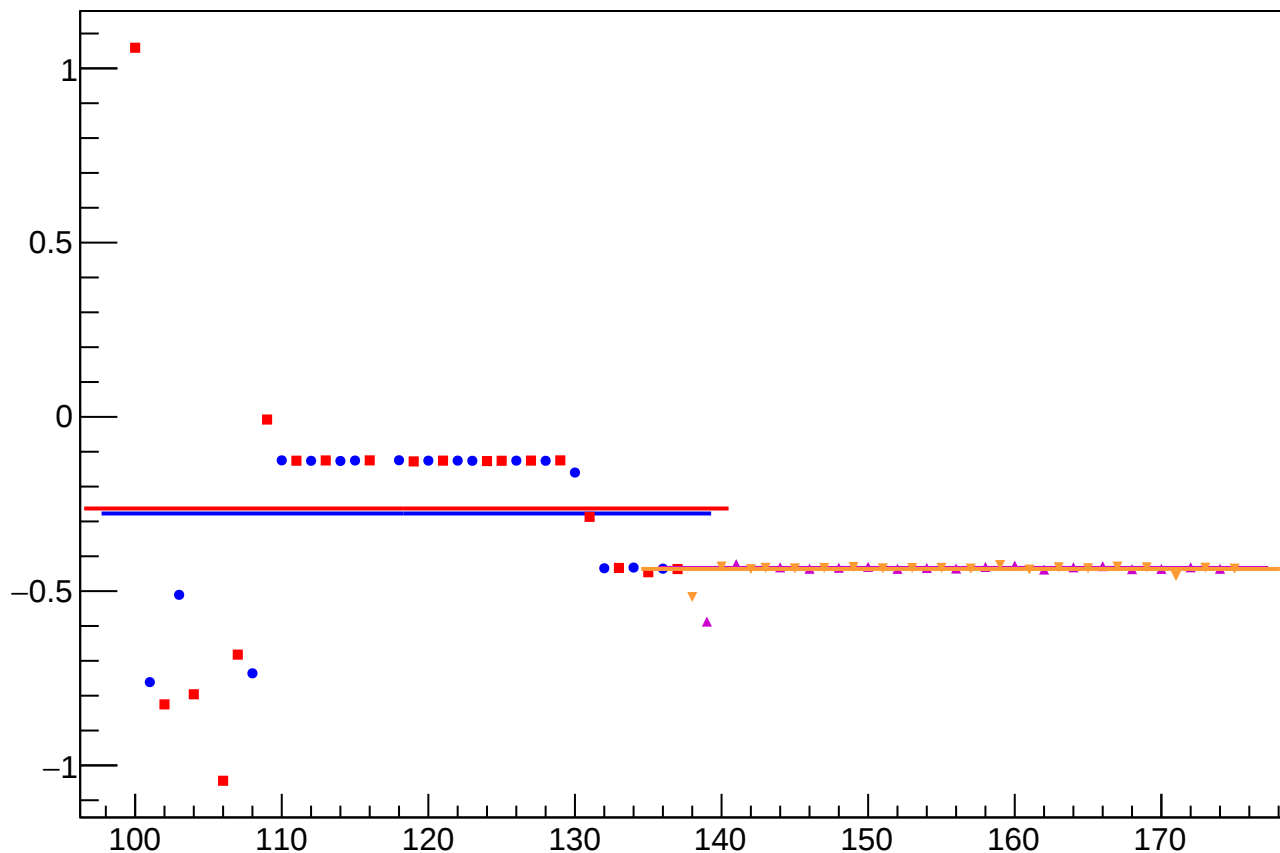
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 2411867.8/35

In: 0.009 $\pm$ 0.000 χ^2 /NDF:3031120.7/34

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:3030439.4/38

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 6061611.8/73

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277 ± 0.000 χ^2/NDF : 940562986.7/16

Left Out: -0.436 ± 0.000 χ^2/NDF : 28740422.7/19

Right Out: -0.263 ± 0.000 χ^2/NDF : 1008398102.0/18

Left In: -0.433 ± 0.000 χ^2/NDF : 23691878.7/17

Left: -0.435 ± 0.000 χ^2/NDF : 52939888.7/37

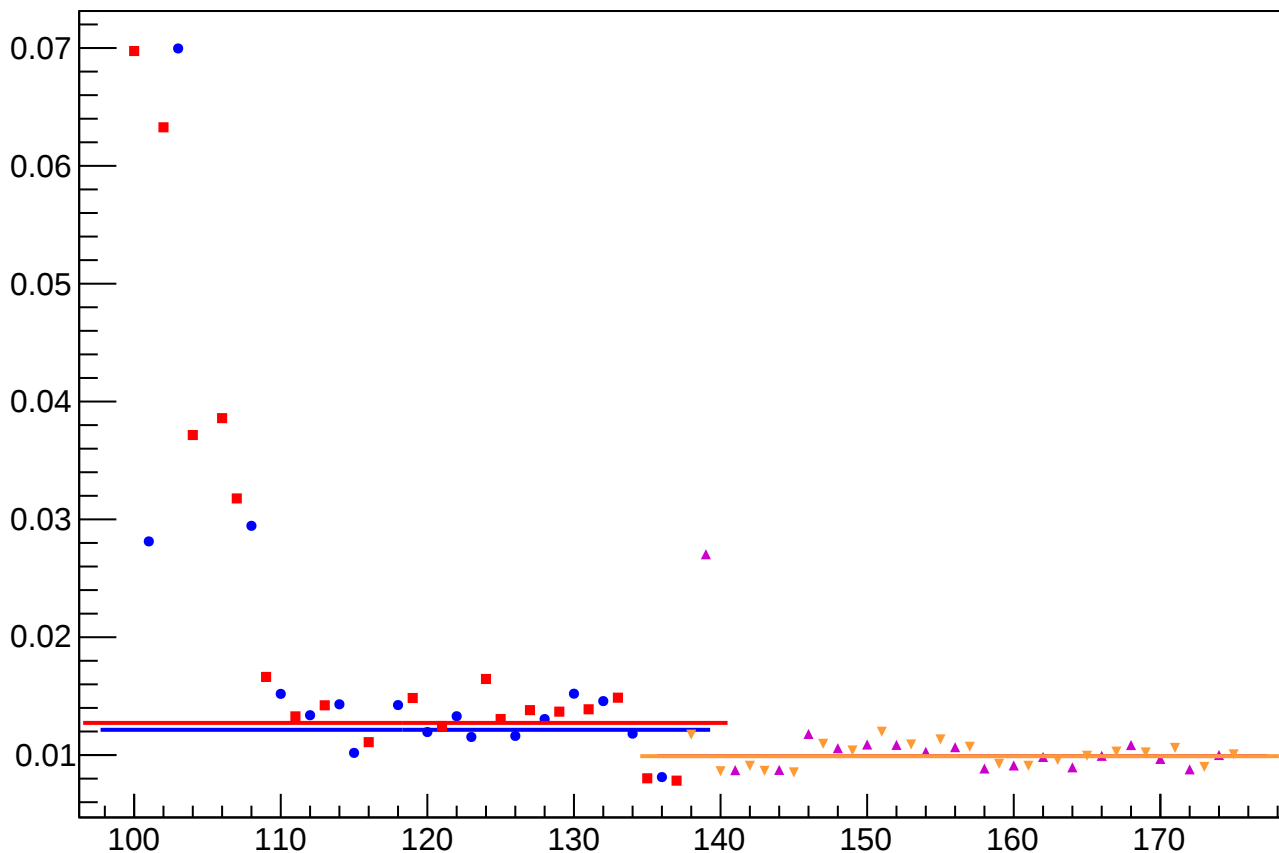
Right: -0.270 ± 0.000 χ^2/NDF : 1952121842.2/35

In: -0.400 ± 0.000 χ^2/NDF : 1578453759.6/34

Out: -0.404 ± 0.000 χ^2/NDF : 1766951265.8/38

All: -0.402 ± 0.000 χ^2/NDF : 3346338128.7/77

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1727494.7/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:246772.2/19

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1969165.0/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:724224.8/17

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 971012.8/37

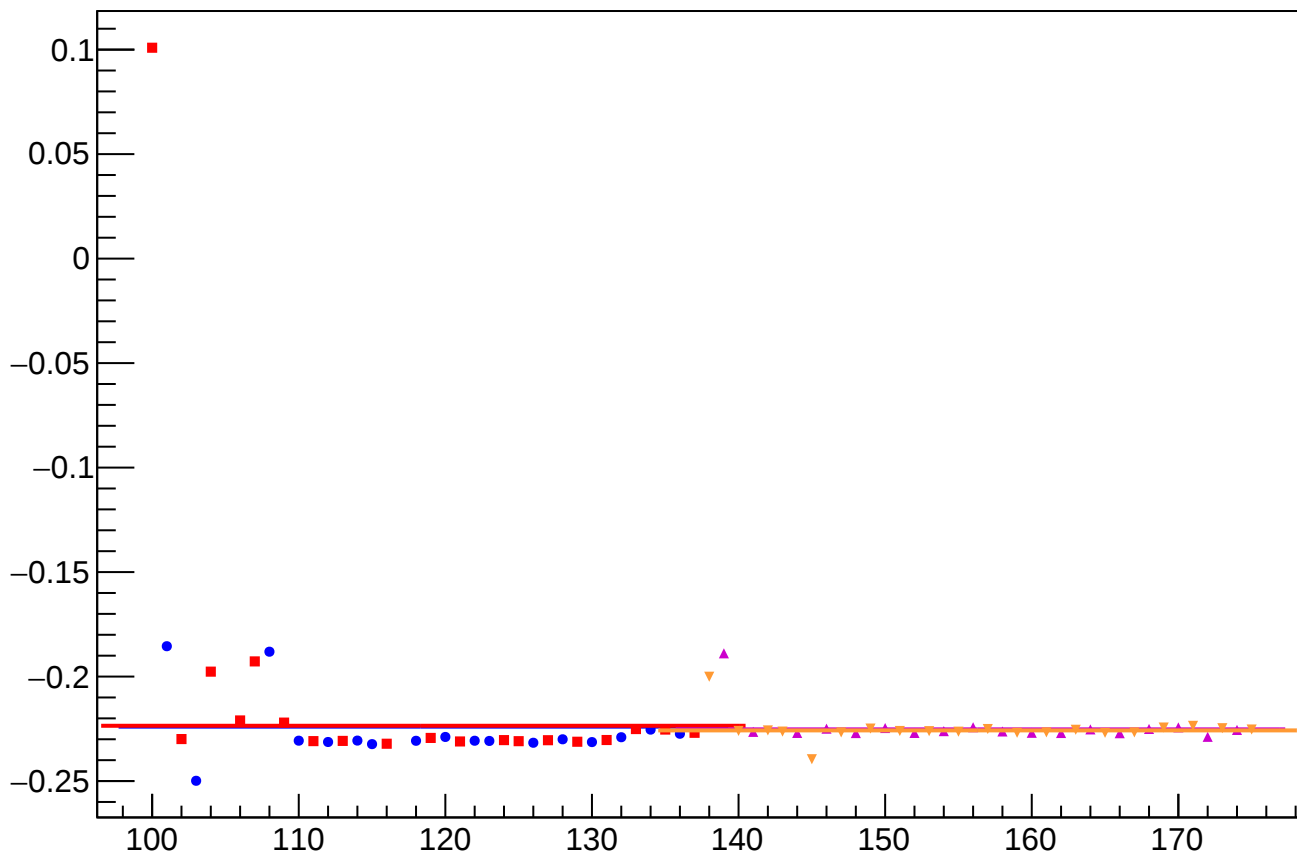
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3707277.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2700903.5/34

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2602629.6/38

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5303868.7/73

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 74704721.6/16

Left Out: -0.226+/-0.000 χ^2/NDF : 20872004.0/19

Right Out: -0.224+/-0.000 χ^2/NDF : 168125914.6/18

Left In: -0.225+/-0.000 χ^2/NDF : 14695502.0/17

Left: -0.226+/-0.000 χ^2/NDF : 35630335.6/37

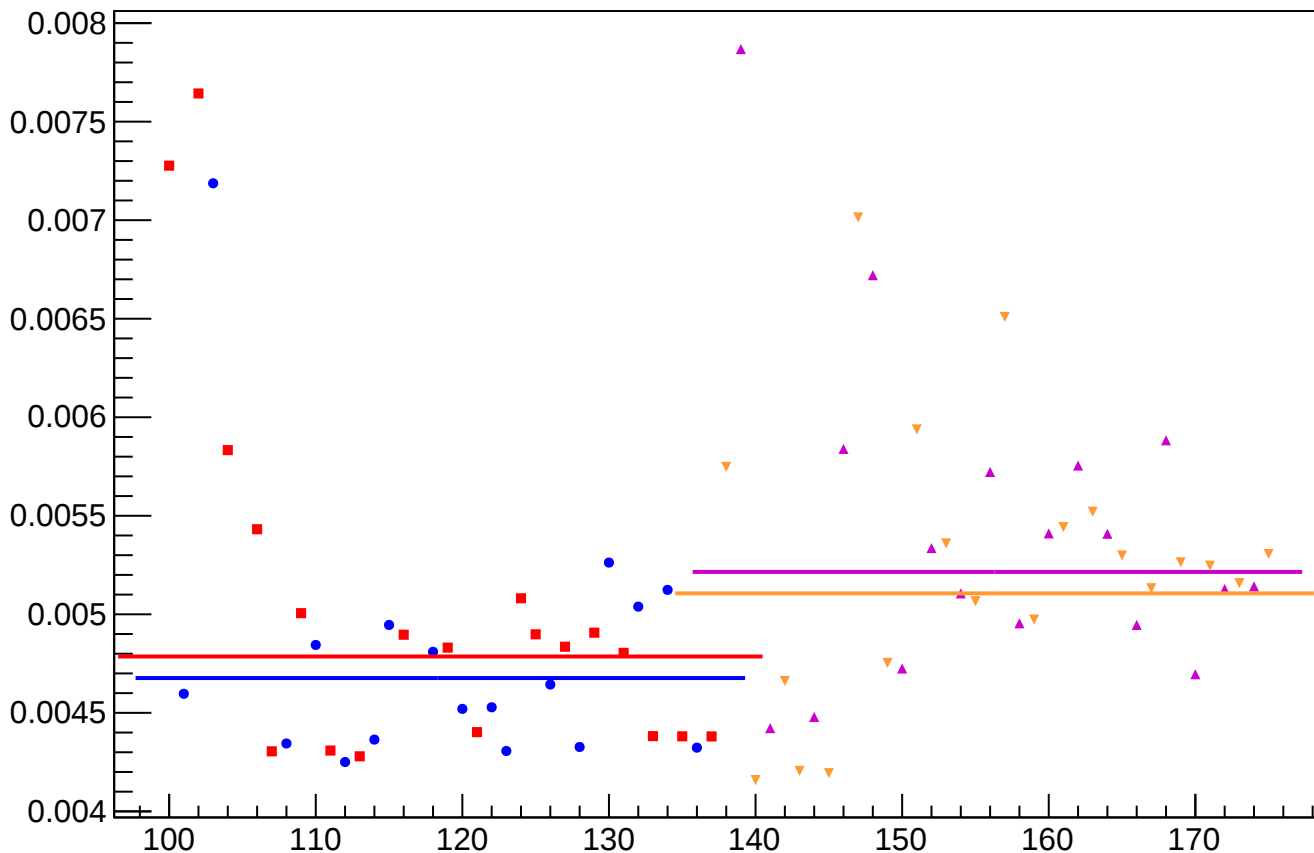
Right: -0.224+/-0.000 χ^2/NDF : 242852935.9/35

In: -0.225+/-0.000 χ^2/NDF : 89702102.3/34

Out: -0.225+/-0.000 χ^2/NDF : 189896169.7/38

All: -0.225+/-0.000 χ^2/NDF : 279617387.6/73

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 181335.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 453698.2/19

Right Out: 0.005+/-0.000 χ^2/NDF : 248196.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 426465.6/17

Left: 0.005+/-0.000 χ^2/NDF : 886155.7/37

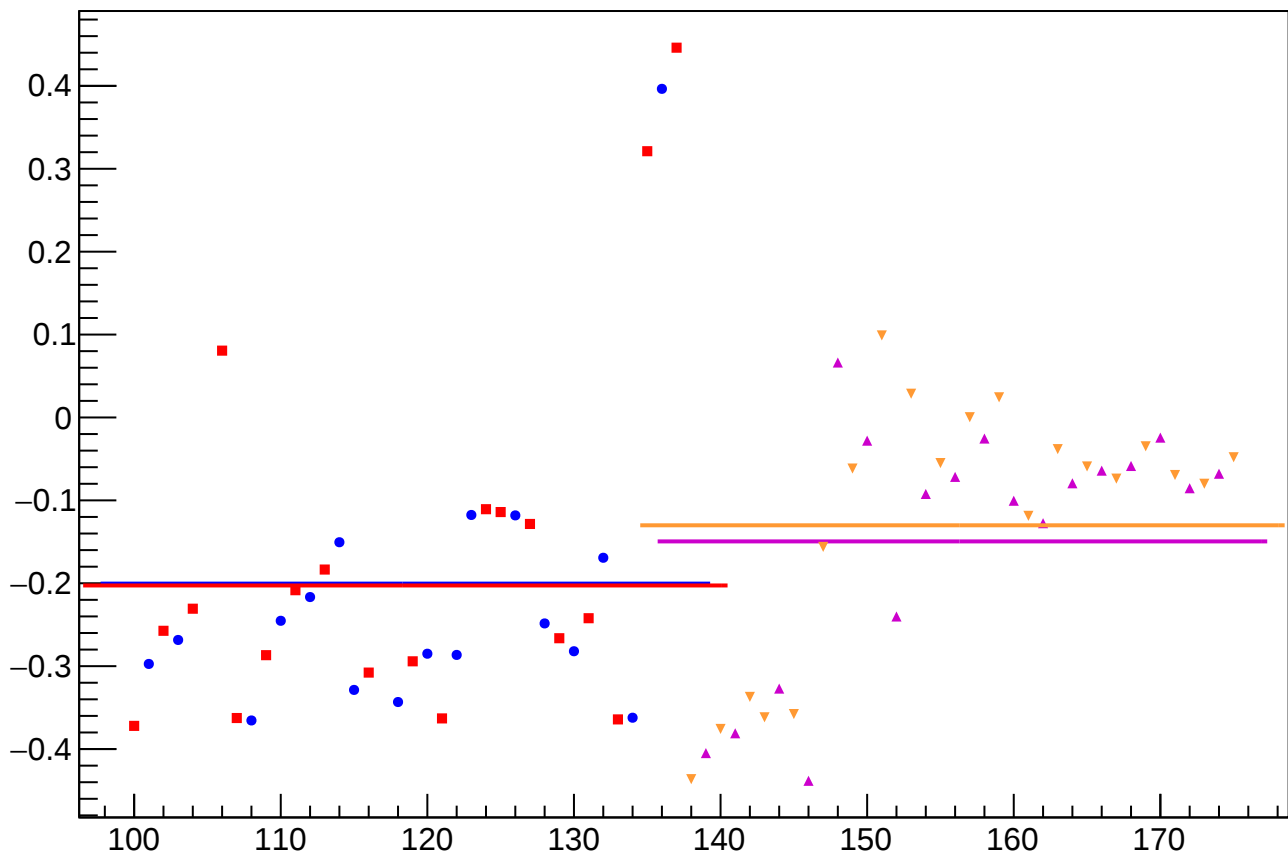
Right: 0.005+/-0.000 χ^2/NDF : 432848.2/35

In: 0.005+/-0.000 χ^2/NDF : 709401.0/34

Out: 0.005+/-0.000 χ^2/NDF : 739583.3/38

All: 0.005+/-0.000 χ^2/NDF : 1449349.9/73

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 χ^2/NDF : 5973556486.0/16

Left Out: -0.130 ± 0.000 χ^2/NDF : 11928546414.0/19

Right Out: -0.203 ± 0.000 χ^2/NDF : 5028268807.1/18

Left In: -0.150 ± 0.000 χ^2/NDF : 9096188385.4/17

Left: -0.139 ± 0.000 χ^2/NDF : 21112493174.3/37

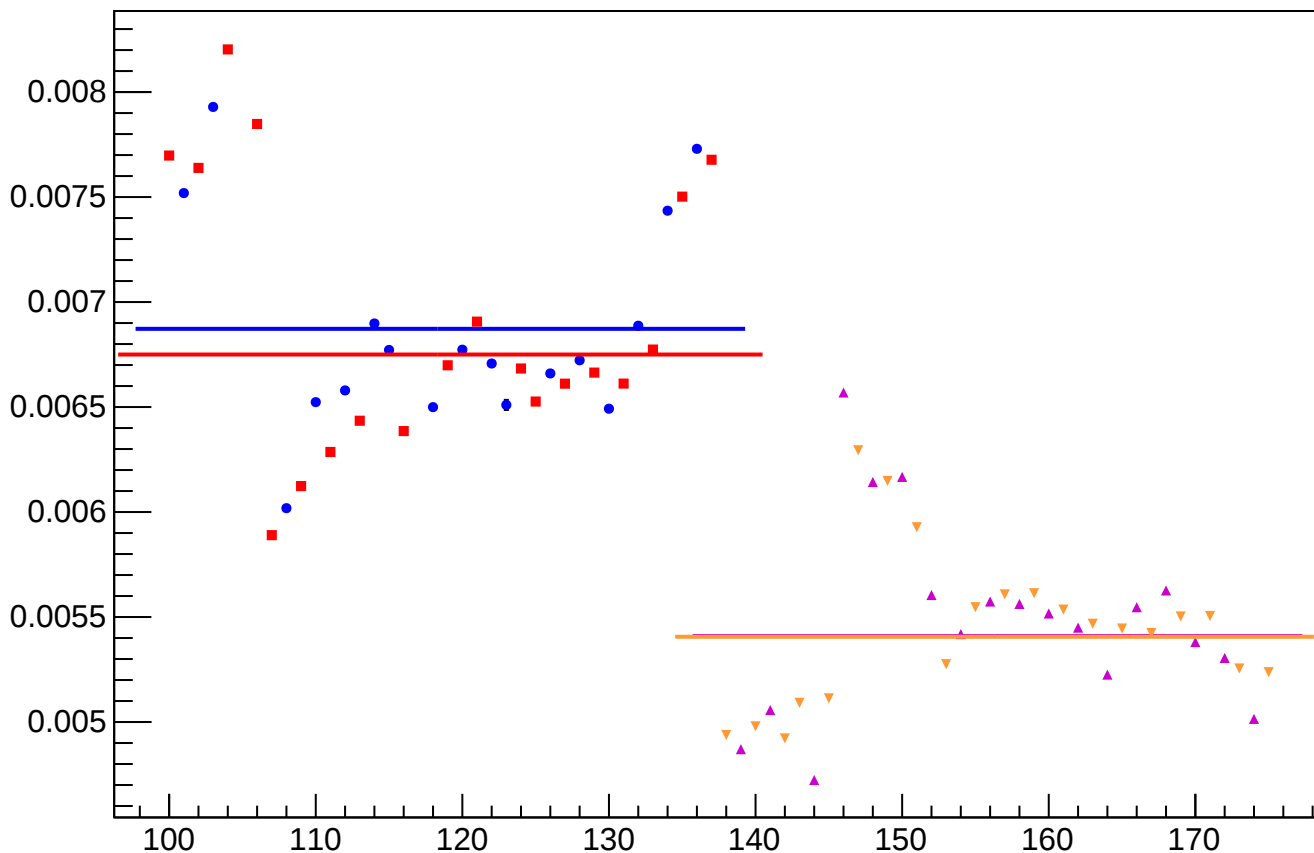
Right: -0.202 ± 0.000 χ^2/NDF : 11002181720.9/35

In: -0.162 ± 0.000 χ^2/NDF : 15344605365.7/34

Out: -0.147 ± 0.000 χ^2/NDF : 17563095454.5/38

All: -0.154 ± 0.000 χ^2/NDF : 32970090529.1/74

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78611.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :109547.4/19

Right Out: 0.007+/-0.000 χ^2/NDF : 105124.4/18

Left In: 0.005+/-0.000 χ^2/NDF :158810.1/17

Left: 0.005+/-0.000 χ^2/NDF : 268362.4/37

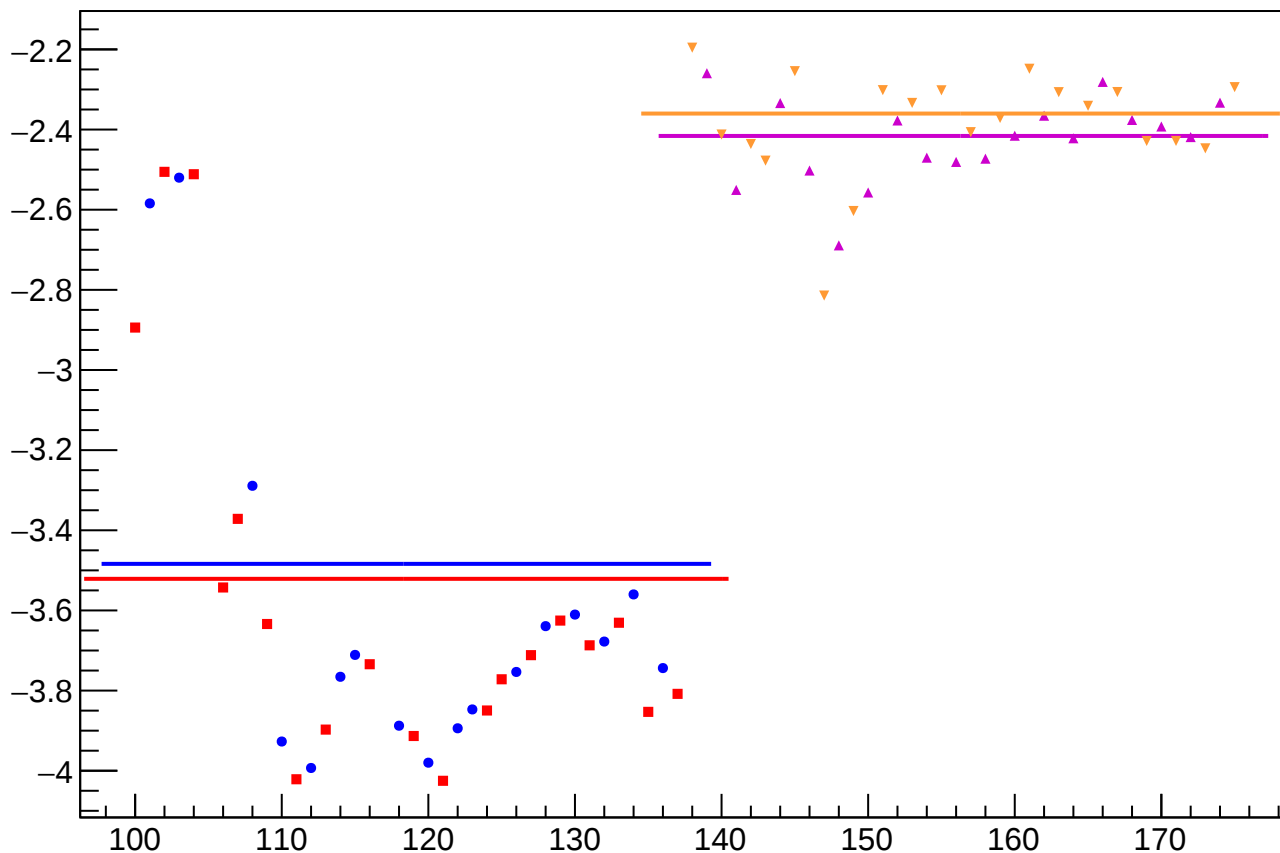
Right: 0.007+/-0.000 χ^2/NDF : 185903.4/35

In: 0.006+/-0.000 χ^2/NDF :691083.2/34

Out: 0.006+/-0.000 χ^2/NDF :630481.1/38

All: 0.006+/-0.000 χ^2/NDF : 1322182.1/73

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.484+/-0.000 χ^2/NDF : 27174302276.9/16

Left Out: -2.360+/-0.000 χ^2/NDF : 1926663755.6/19

Right Out: -3.521+/-0.000 χ^2/NDF : 26472007419.8/18

Left In: -2.416+/-0.000 χ^2/NDF : 1222323729.4/17

Left: -2.387+/-0.000 χ^2/NDF : 3428008732.6/37

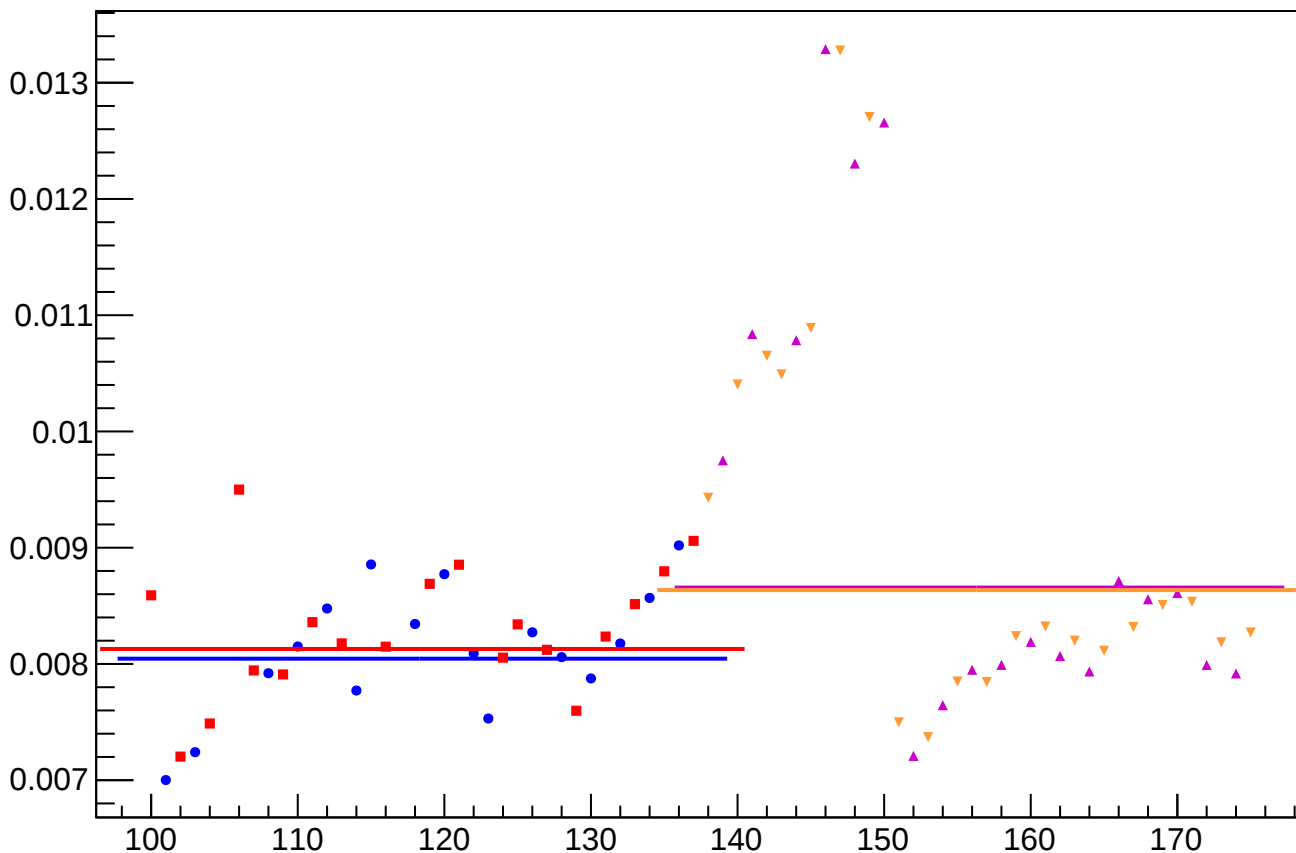
Right: -3.503+/-0.000 χ^2/NDF : 53717081893.8/35

In: -2.810+/-0.000 χ^2/NDF : 100699375360.8/34

Out: -2.772+/-0.000 χ^2/NDF : 117596317816.7/38

All: -2.791+/-0.000 χ^2/NDF : 218504597817.3

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 71989.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 603110.2/19

Right Out: 0.008+/-0.000 χ^2/NDF : 57478.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 726279.1/17

Left: 0.009+/-0.000 χ^2/NDF : 1329475.4/37

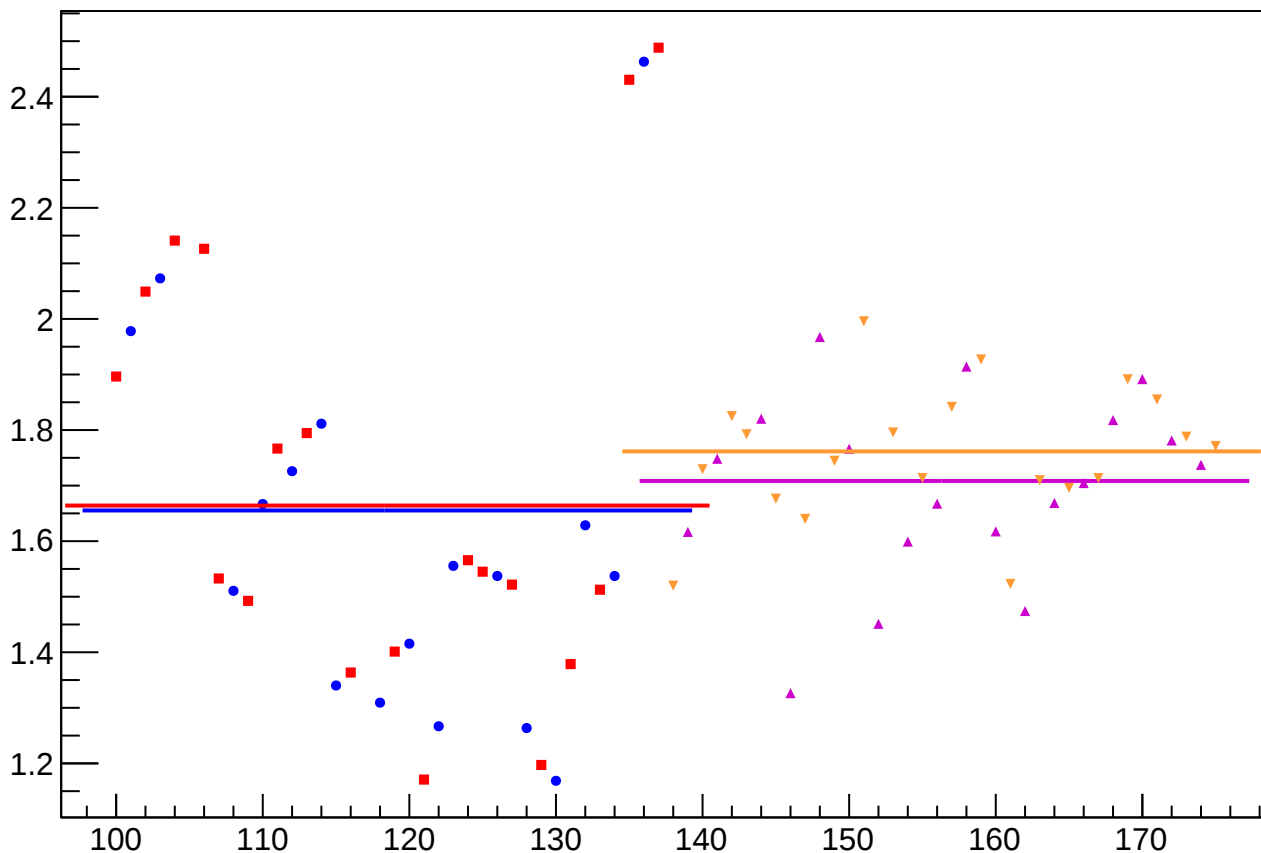
Right: 0.008+/-0.000 χ^2/NDF : 130173.8/35

In: 0.008+/-0.000 χ^2/NDF : 845758.5/34

Out: 0.008+/-0.000 χ^2/NDF : 694554.4/38

All: 0.008+/-0.000 χ^2/NDF : 1540480.4/73

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.655 $\pm$ 0.000 χ^2 /NDF: 6476474909.3/16

Left Out: 1.762 $\pm$ 0.000 χ^2 /NDF:1758937454.0/19

Right Out: 1.664 $\pm$ 0.000 χ^2 /NDF: 5944262279.7/18

Left In: 1.708 $\pm$ 0.000 χ^2 /NDF:2757560010.7/17

Left: 1.736 $\pm$ 0.000 χ^2 /NDF: 4691840527.2/37

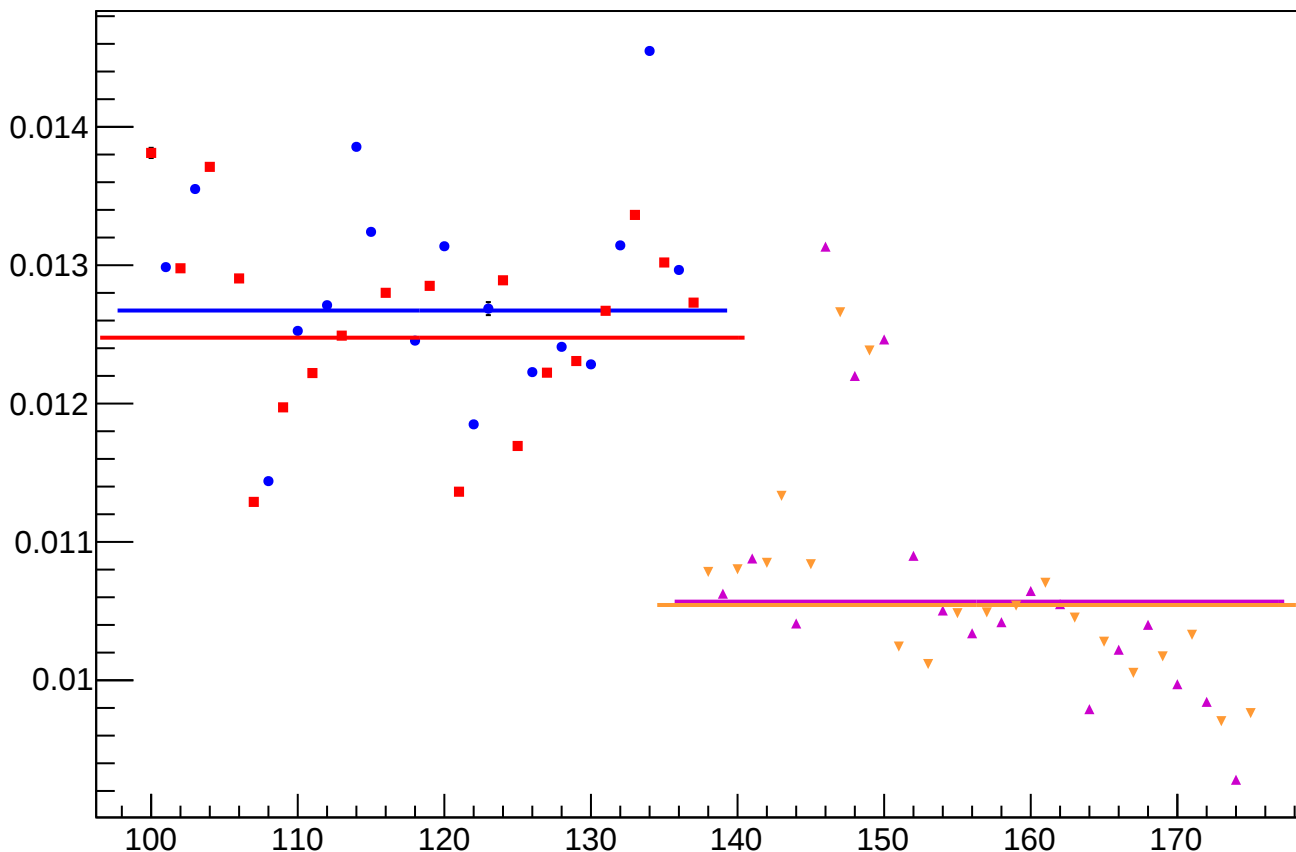
Right: 1.660 $\pm$ 0.000 χ^2 /NDF: 12422392259.9/35

In: 1.695 $\pm$ 0.000 χ^2 /NDF:9319648091.3/34

Out: 1.737 $\pm$ 0.000 χ^2 /NDF:8016586880.9/38

All: 1.717 $\pm$ 0.000 χ^2 /NDF: 17482748574.9/71

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31801.3/16

Left Out: 0.011+/-0.000 χ^2/NDF :115746.7/19

Right Out: 0.012+/-0.000 χ^2/NDF : 39134.8/18

Left In: 0.011+/-0.000 χ^2/NDF :170450.3/17

Left: 0.011+/-0.000 χ^2/NDF : 286269.4/37

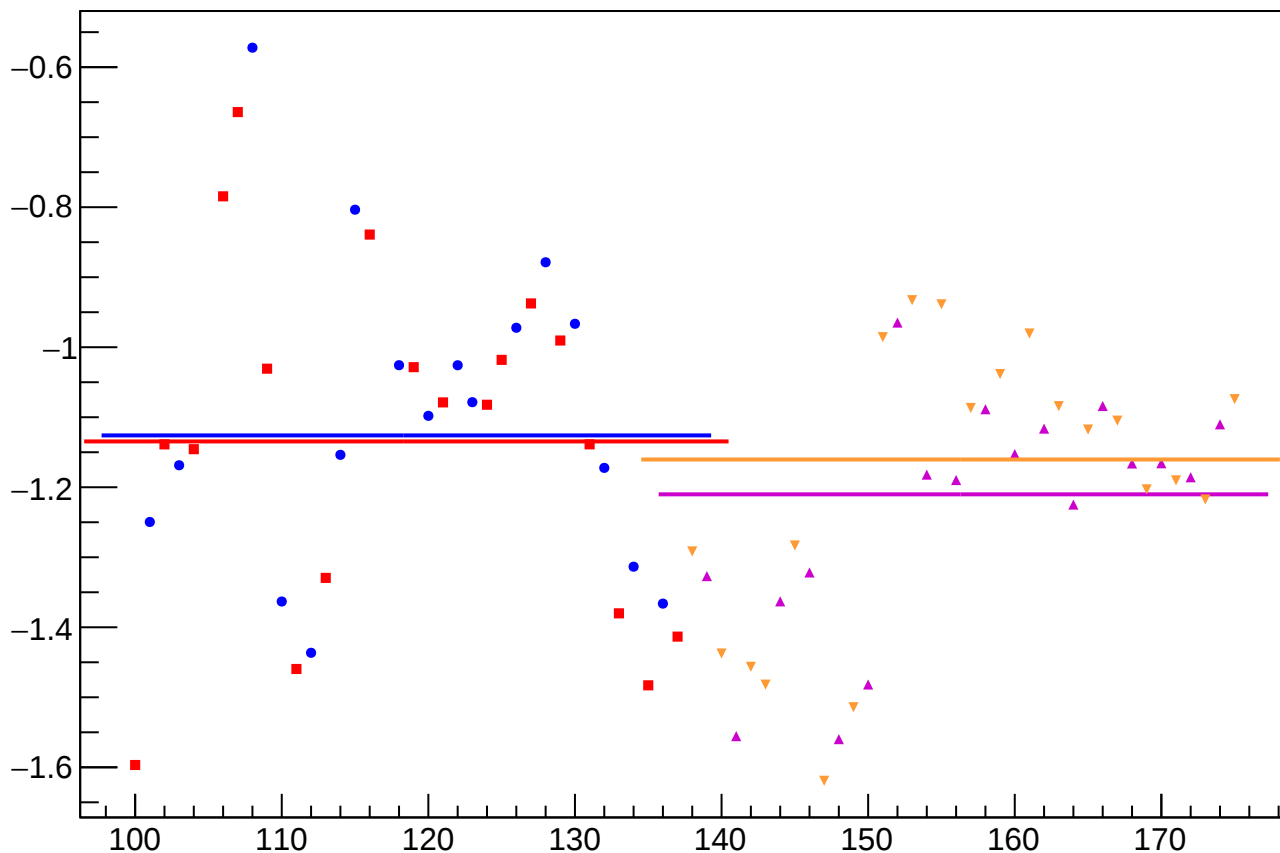
Right: 0.013+/-0.000 χ^2/NDF : 72572.8/35

In: 0.011+/-0.000 χ^2/NDF :471257.8/34

Out: 0.011+/-0.000 χ^2/NDF :400984.1/38

All: 0.011+/-0.000 χ^2/NDF : 873076.4/73

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.126+/-0.000

χ^2/NDF : 3574776639.2/16

Left: -1.184+/-0.000

χ^2/NDF : 12250986778.1/37

Left Out: -1.160+/-0.000

χ^2/NDF : 7292231684.8/19

Right: -1.130+/-0.000

χ^2/NDF : 7255318739.1/35

Right Out: -1.135+/-0.000

χ^2/NDF : 3677461023.4/18

In: -1.186+/-0.000

χ^2/NDF : 8683042975.8/34

Out: -1.153+/-0.000

χ^2/NDF : 11010797067.7/38

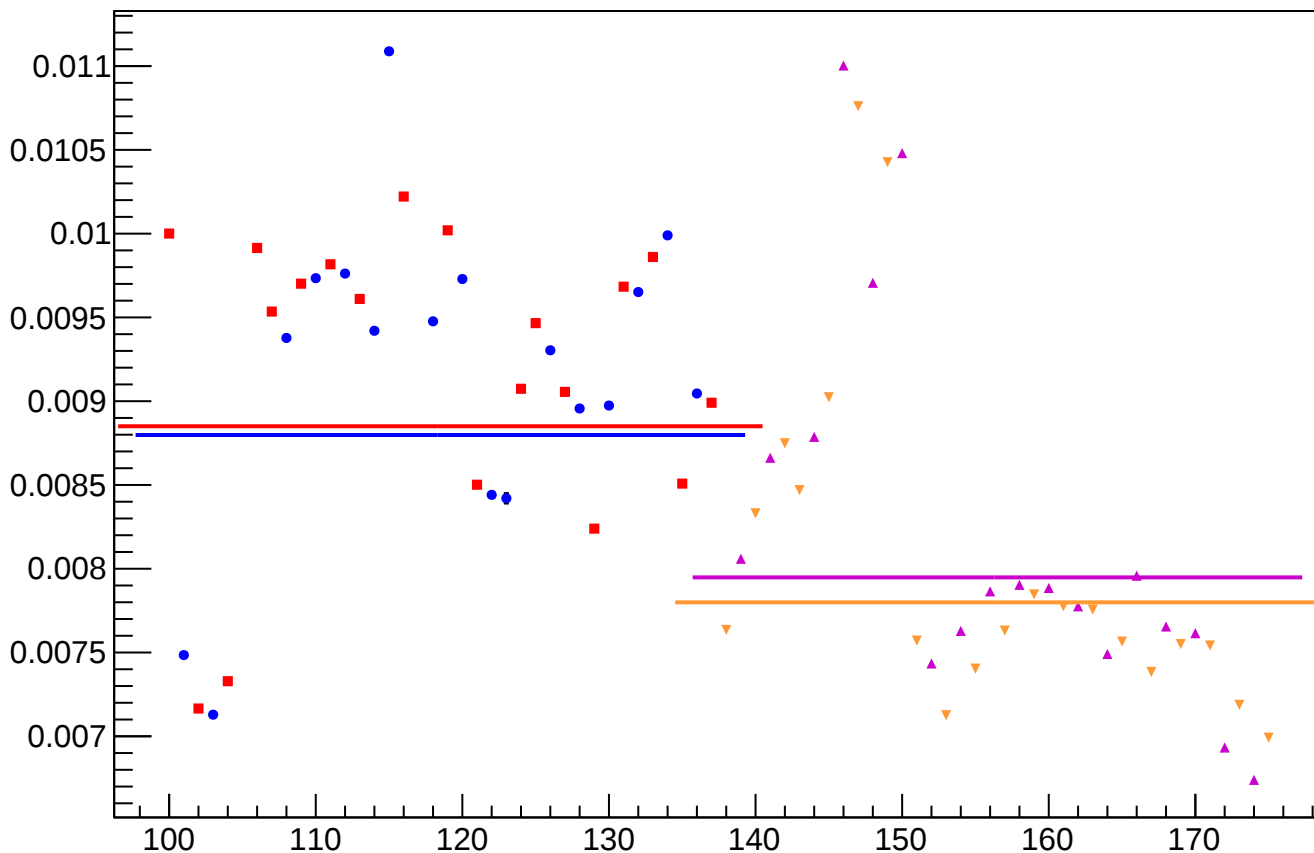
Left In: -1.210+/-0.000

χ^2/NDF : 4692346175.2/17

All: -1.169+/-0.000

χ^2/NDF : 19852120704.1/177

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151586.8/16

Left Out: 0.008+/-0.000 χ^2/NDF :288837.7/19

Right Out: 0.009+/-0.000 χ^2/NDF : 173958.0/18

Left In: 0.008+/-0.000 χ^2/NDF :348625.6/17

Left: 0.008+/-0.000 χ^2/NDF : 642240.9/37

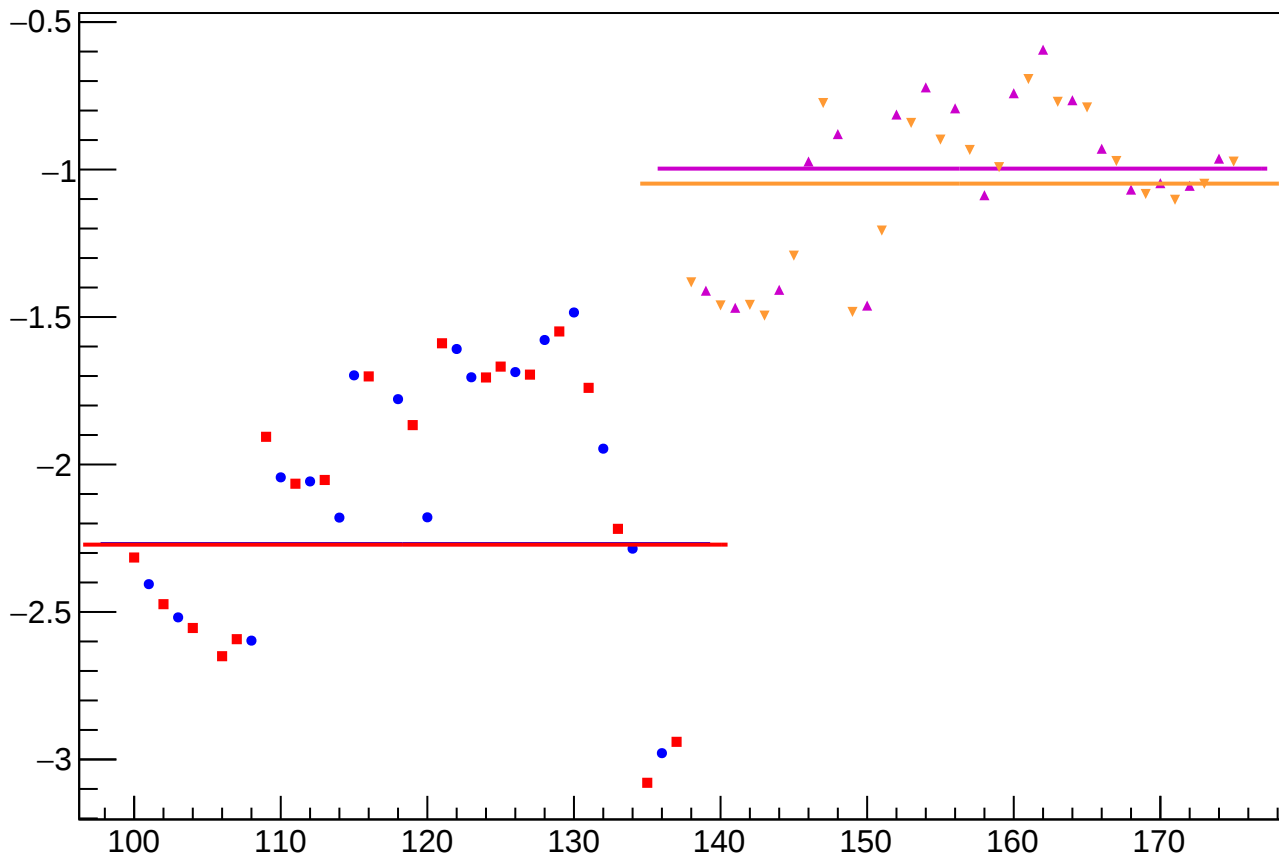
Right: 0.009+/-0.000 χ^2/NDF : 325772.0/35

In: 0.008+/-0.000 χ^2/NDF :585002.2/34

Out: 0.008+/-0.000 χ^2/NDF :598888.0/38

All: 0.008+/-0.000 χ^2/NDF : 1187421.9/73

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.270+/-0.000 χ^2/NDF : 17408567065.9/16

Left Out: -1.048+/-0.000 χ^2/NDF : 17776282533.0/19

Right Out: -2.272+/-0.000 χ^2/NDF : 19009331715.4/18

Left In: -0.997+/-0.000 χ^2/NDF : 18125498697.2/17

Left: -1.023+/-0.000 χ^2/NDF : 36337279644.0/37

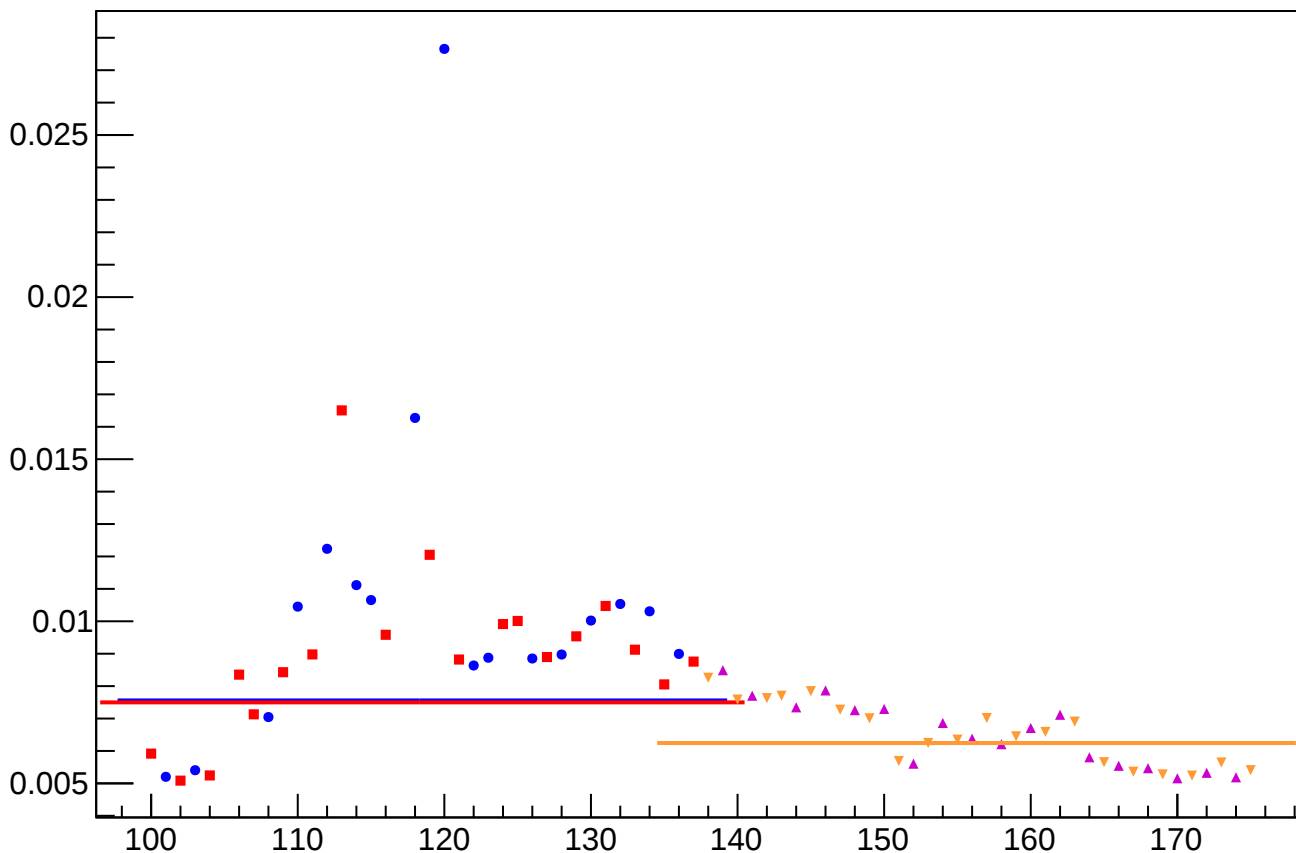
Right: -2.271+/-0.000 χ^2/NDF : 36418070927.0/35

In: -1.267+/-0.000 χ^2/NDF : 147912365504.0/34

Out: -1.320+/-0.000 χ^2/NDF : 152799966508.4/38

All: -1.295+/-0.000 χ^2/NDF : 301301397385.1

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1221004.0/16

Left Out: 0.006+/-0.000 χ^2/NDF : 560819.0/19

Right Out: 0.007+/-0.000 χ^2/NDF : 933998.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 593802.5/17

Left: 0.006+/-0.000 χ^2/NDF : 1154621.7/37

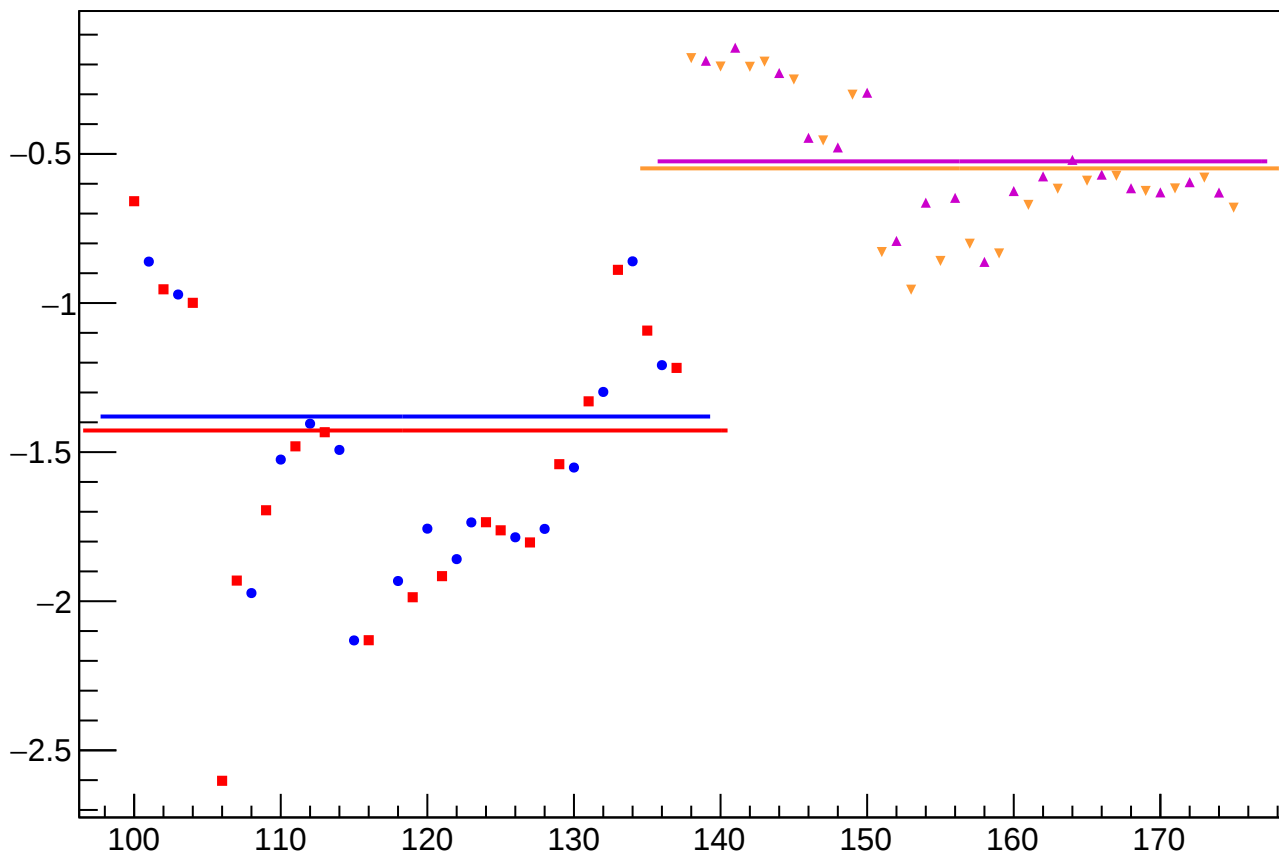
Right: 0.008+/-0.000 χ^2/NDF : 2155335.5/35

In: 0.007+/-0.000 χ^2/NDF : 2054137.7/34

Out: 0.007+/-0.000 χ^2/NDF : 1737983.0/38

All: 0.007+/-0.000 χ^2/NDF : 3792120.7/73

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000 χ^2/NDF : 20001018652.5/16

Left Out: -0.548+/-0.000 χ^2/NDF : 46175563640.1/19

Right Out: -1.427+/-0.000 χ^2/NDF : 29616178528.0/18

Left In: -0.525+/-0.000 χ^2/NDF : 30386094391.2/17

Left: -0.537+/-0.000 χ^2/NDF : 76778212595.3/37

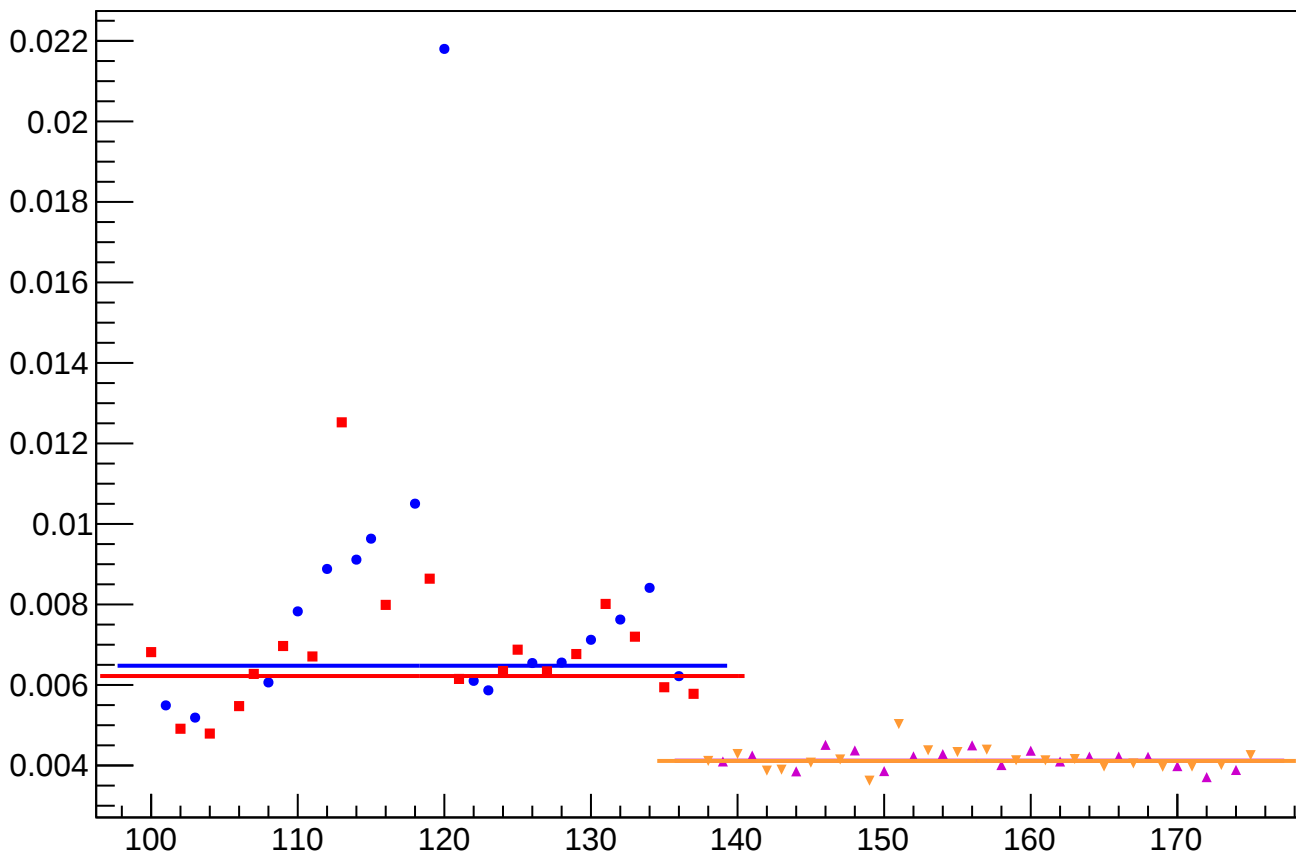
Right: -1.406+/-0.000 χ^2/NDF : 49770978716.8/35

In: -0.651+/-0.000 χ^2/NDF : 131456474583.8/34

Out: -0.687+/-0.000 χ^2/NDF : 174605349533.8/38

All: -0.670+/-0.000 χ^2/NDF : 306677905437.7

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 572678.4/16

Left Out: 0.004+/-0.000 χ^2/NDF : 96959.2/19

Right Out: 0.006+/-0.000 χ^2/NDF : 423437.1/18

Left In: 0.004+/-0.000 χ^2/NDF : 74893.3/17

Left: 0.004+/-0.000 χ^2/NDF : 171883.7/37

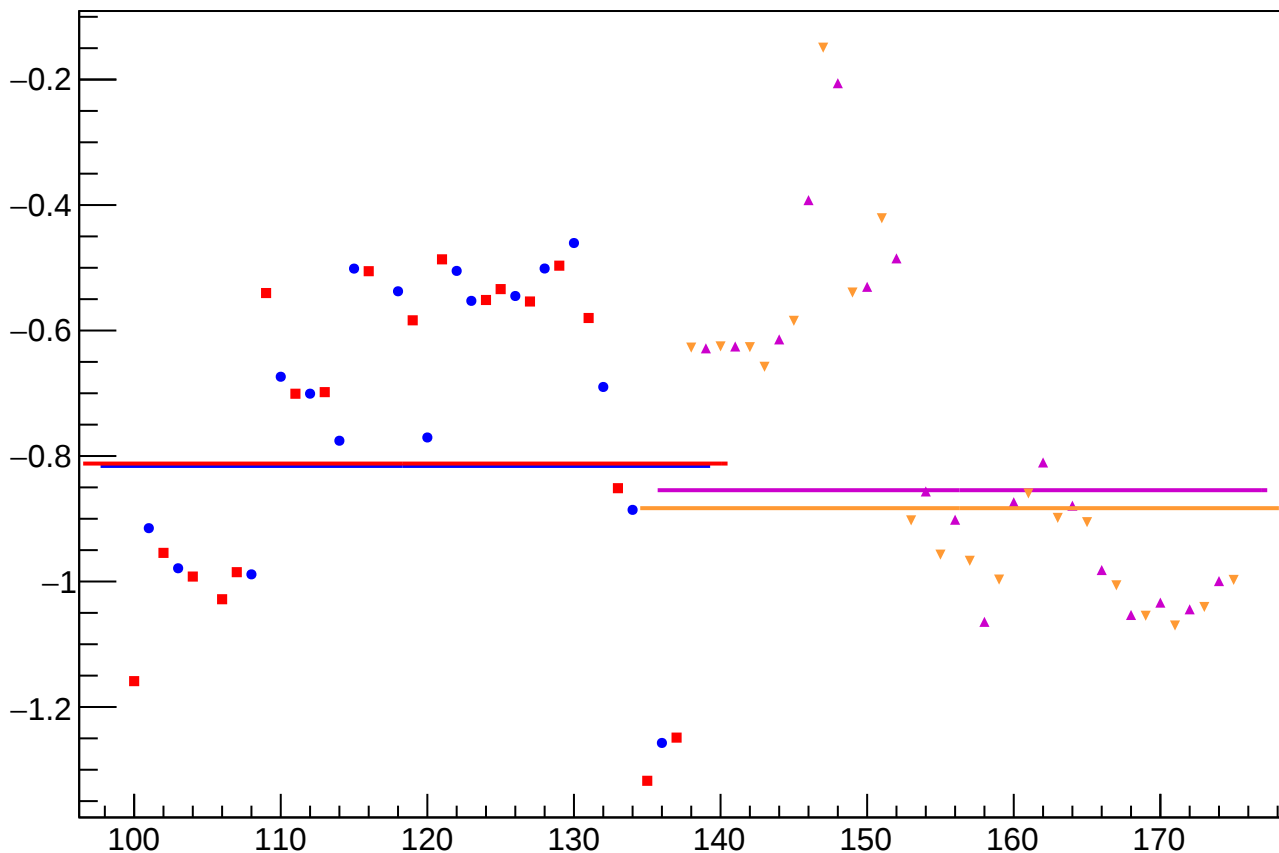
Right: 0.006+/-0.000 χ^2/NDF : 1005263.6/35

In: 0.004+/-0.000 χ^2/NDF : 1879556.1/34

Out: 0.004+/-0.000 χ^2/NDF : 1658571.2/38

All: 0.004+/-0.000 χ^2/NDF : 3538494.4/73

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816+/-0.000 χ^2/NDF : 14172884795.2/16

Left Out: -0.883+/-0.000 χ^2/NDF : 39925763359.7/19

Right Out: -0.812+/-0.000 χ^2/NDF : 16815852448.9/18

Left In: -0.854+/-0.000 χ^2/NDF : 42962865225.7/17

Left: -0.869+/-0.000 χ^2/NDF : 83259548193.3/37

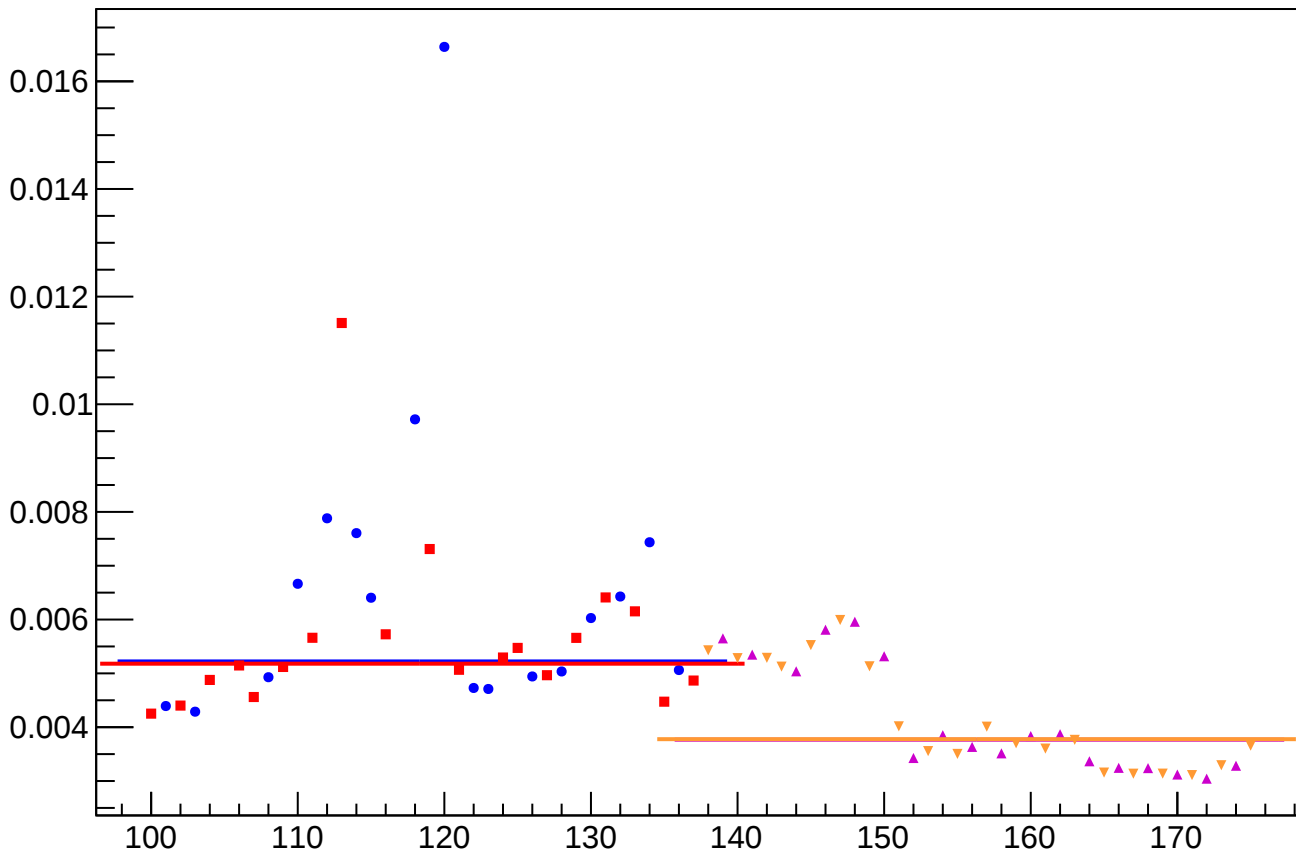
Right: -0.814+/-0.000 χ^2/NDF : 30990213454.0/35

In: -0.847+/-0.000 χ^2/NDF : 57375469371.2/34

Out: -0.869+/-0.000 χ^2/NDF : 57645774469.4/38

All: -0.859+/-0.000 χ^2/NDF : 115292367791.0

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 664386.8/16

Left Out: 0.004+/-0.000 χ^2/NDF :1124610.3/19

Right Out: 0.005+/-0.000 χ^2/NDF : 363781.3/18

Left In: 0.004+/-0.000 χ^2/NDF :1183563.4/17

Left: 0.004+/-0.000 χ^2/NDF : 2308260.3/37

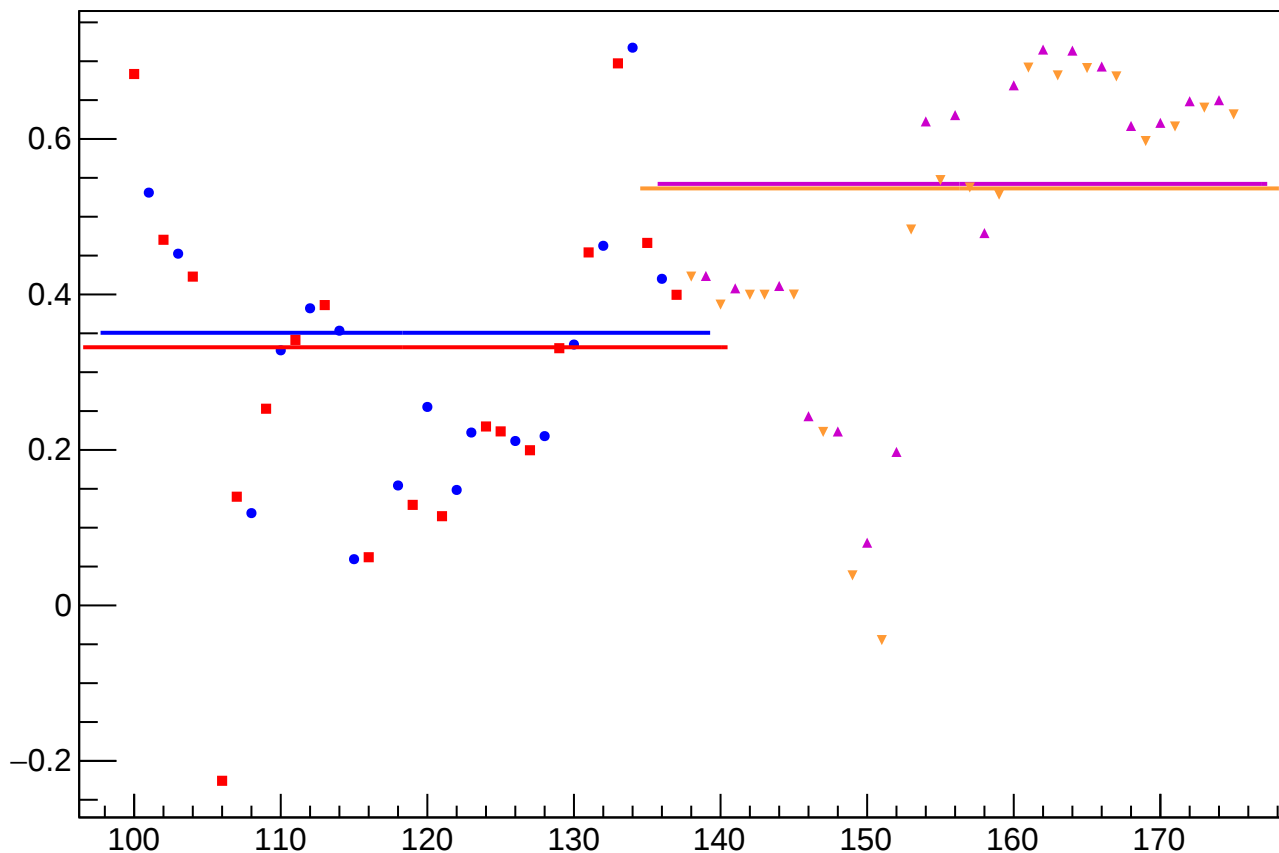
Right: 0.005+/-0.000 χ^2/NDF : 1028532.8/35

In: 0.004+/-0.000 χ^2/NDF :2525395.3/34

Out: 0.004+/-0.000 χ^2/NDF :2192181.1/38

All: 0.004+/-0.000 χ^2/NDF : 4717766.2/73

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 7410859446.3/16

Left Out: 0.536+/-0.000 χ^2/NDF : 40581491919.7/19

Right Out: 0.332+/-0.000 χ^2/NDF : 11796213425.9/18

Left In: 0.542+/-0.000 χ^2/NDF : 37851873877.5/17

Left: 0.539+/-0.000 χ^2/NDF : 78454968838.2/37

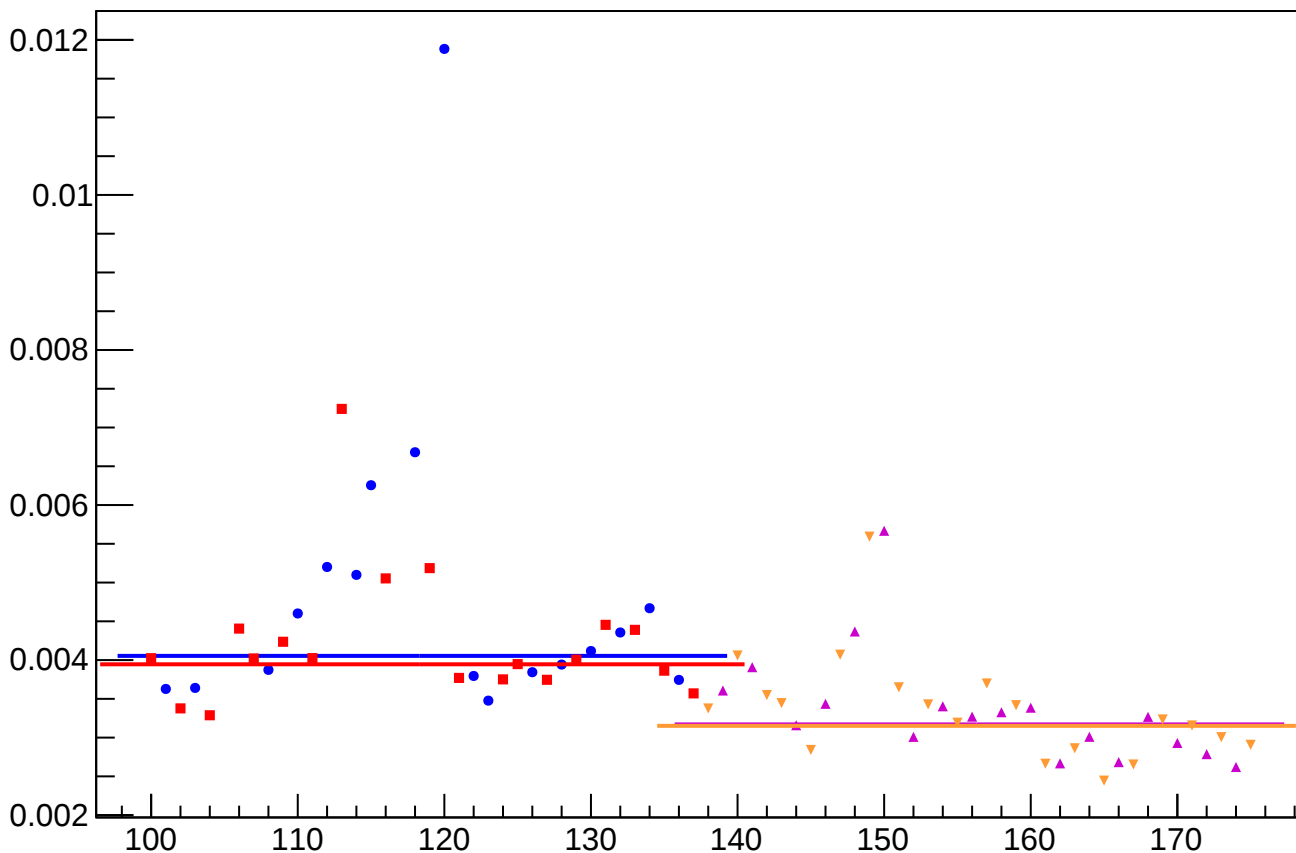
Right: 0.341+/-0.000 χ^2/NDF : 19270918435.8/35

In: 0.500+/-0.000 χ^2/NDF : 55164755875.3/34

Out: 0.489+/-0.000 χ^2/NDF : 65009599268.3/38

All: 0.494+/-0.000 χ^2/NDF : 120264095248.7

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 455318.3/16

Left Out: 0.003+/-0.000 χ^2/NDF : 725286.3/19

Right Out: 0.004+/-0.000 χ^2/NDF : 260968.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 683062.8/17

Left: 0.003+/-0.000 χ^2/NDF : 1408770.5/37

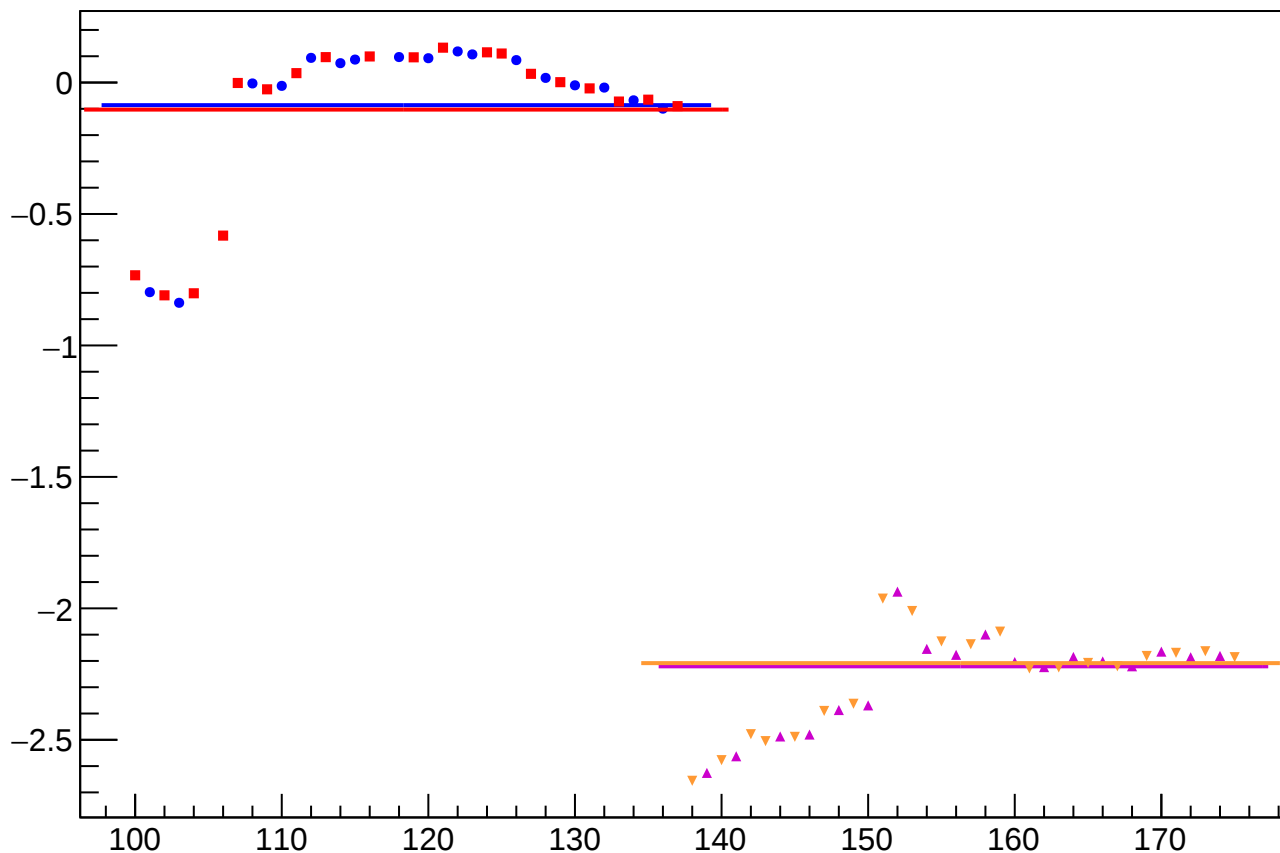
Right: 0.004+/-0.000 χ^2/NDF : 720633.0/35

In: 0.003+/-0.000 χ^2/NDF : 1560397.2/34

Out: 0.003+/-0.000 χ^2/NDF : 1367639.1/38

All: 0.003+/-0.000 χ^2/NDF : 2929629.3/73

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086 ± 0.000 $\chi^2/\text{NDF}: 4989387592.7/16$

Left Out: -2.208 ± 0.000 $\chi^2/\text{NDF}: 3470218836.0/19$

Right Out: -0.103 ± 0.000 $\chi^2/\text{NDF}: 5553039516.7/18$

Left In: -2.221 ± 0.000 $\chi^2/\text{NDF}: 2755136969.0/17$

Left: -2.214 ± 0.000 $\chi^2/\text{NDF}: 6234676758.5/37$

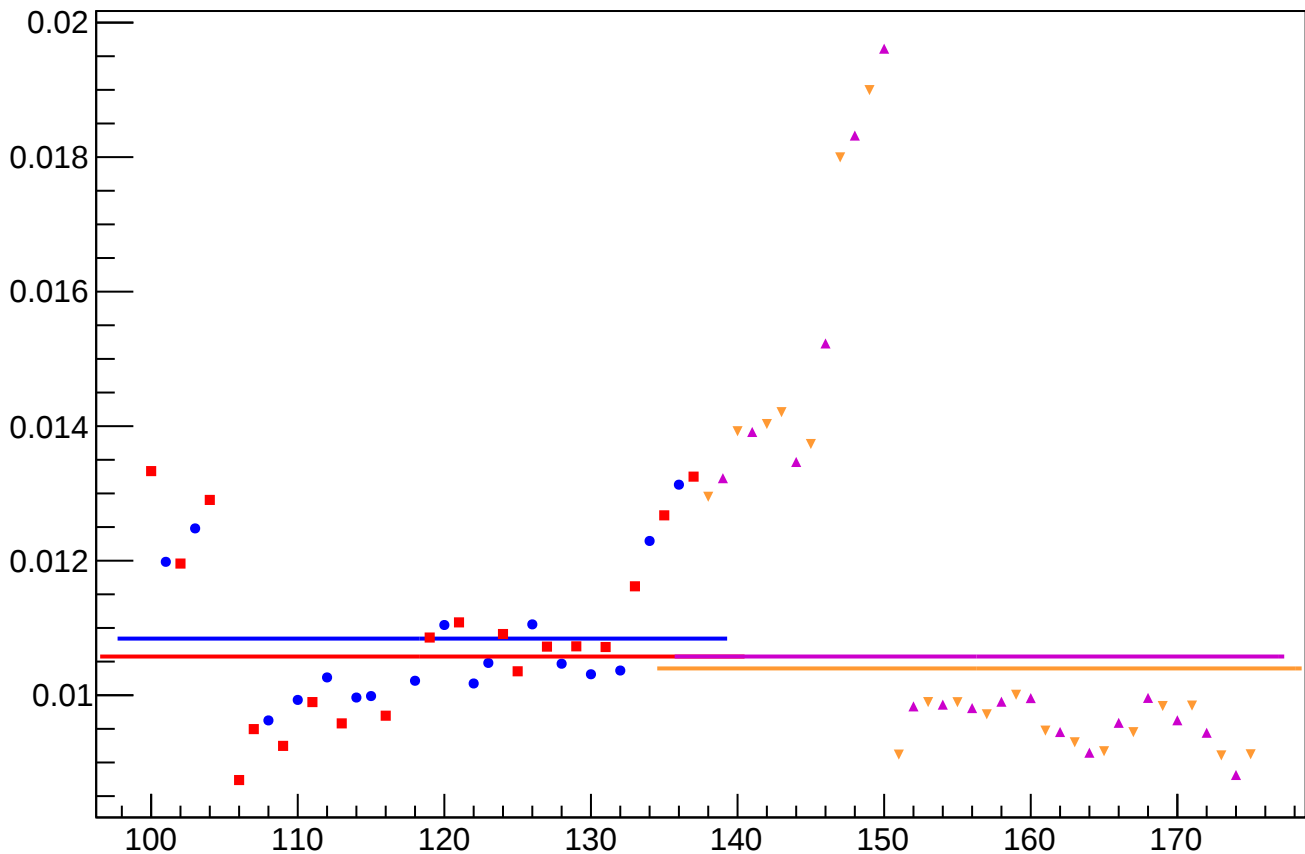
Right: -0.095 ± 0.000 $\chi^2/\text{NDF}: 10550892801.3/35$

In: -1.530 ± 0.000 $\chi^2/\text{NDF}: 181830101566.9/34$

Out: -1.532 ± 0.000 $\chi^2/\text{NDF}: 197662602327.0/38$

All: -1.531 ± 0.000 $\chi^2/\text{NDF}: 379492885006.3$

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124260.3/16

Left Out: 0.010+/-0.000 χ^2/NDF : 1197944.5/19

Right Out: 0.011+/-0.000 χ^2/NDF : 178967.4/18

Left In: 0.011+/-0.000 χ^2/NDF : 1237363.8/17

Left: 0.010+/-0.000 χ^2/NDF : 2439232.0/37

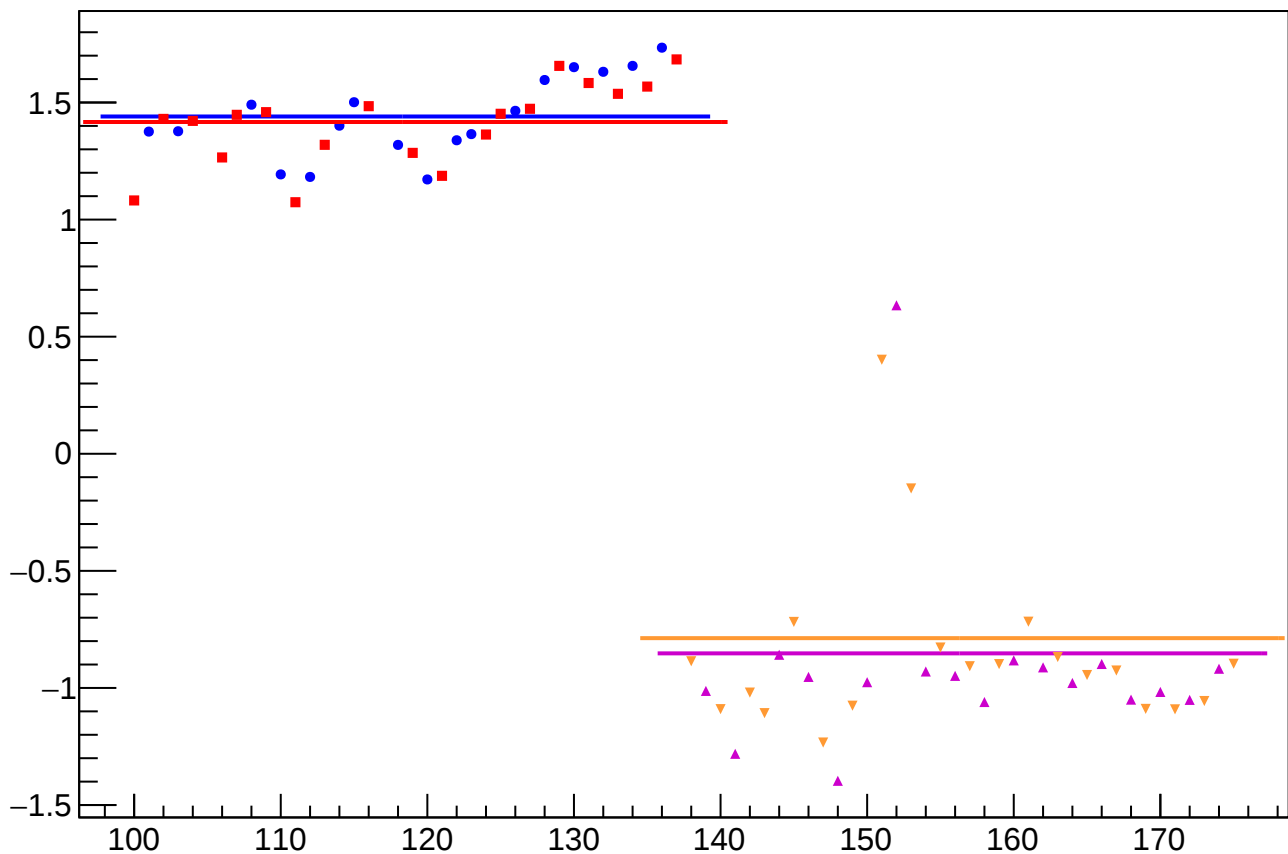
Right: 0.011+/-0.000 χ^2/NDF : 307452.7/35

In: 0.011+/-0.000 χ^2/NDF : 1367047.1/34

Out: 0.010+/-0.000 χ^2/NDF : 1379578.1/38

All: 0.011+/-0.000 χ^2/NDF : 2754485.6/73

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440+/-0.000 χ^2/NDF : 3449252780.8/16

Left Out: -0.787+/-0.000 χ^2/NDF : 34948846518.2/19

Right Out: 1.417+/-0.000 χ^2/NDF : 2674064512.3/18

Left In: -0.852+/-0.000 χ^2/NDF : 41319543327.7/17

Left: -0.819+/-0.000 χ^2/NDF : 76689976324.0/37

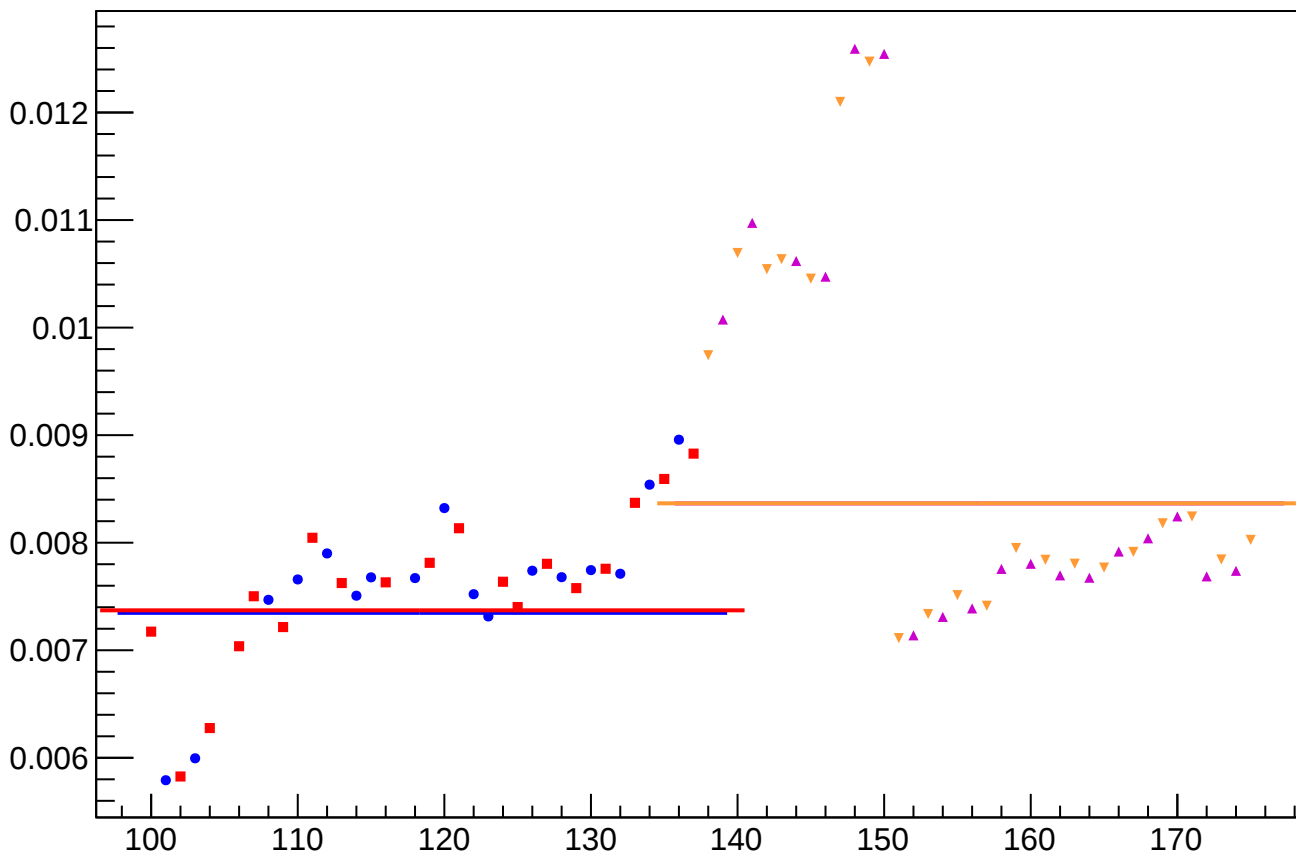
Right: 1.428+/-0.000 χ^2/NDF : 6158088082.8/35

In: 0.038+/-0.000 χ^2/NDF : 436989072776.6/34

Out: 0.057+/-0.000 χ^2/NDF : 424541673892.2/38

All: 0.048+/-0.000 χ^2/NDF : 861588894026.6

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228163.6/16

Left Out: 0.008+/-0.000 χ^2/NDF : 752085.9/19

Right Out: 0.007+/-0.000 χ^2/NDF : 172689.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 826562.6/17

Left: 0.008+/-0.000 χ^2/NDF : 1578648.8/37

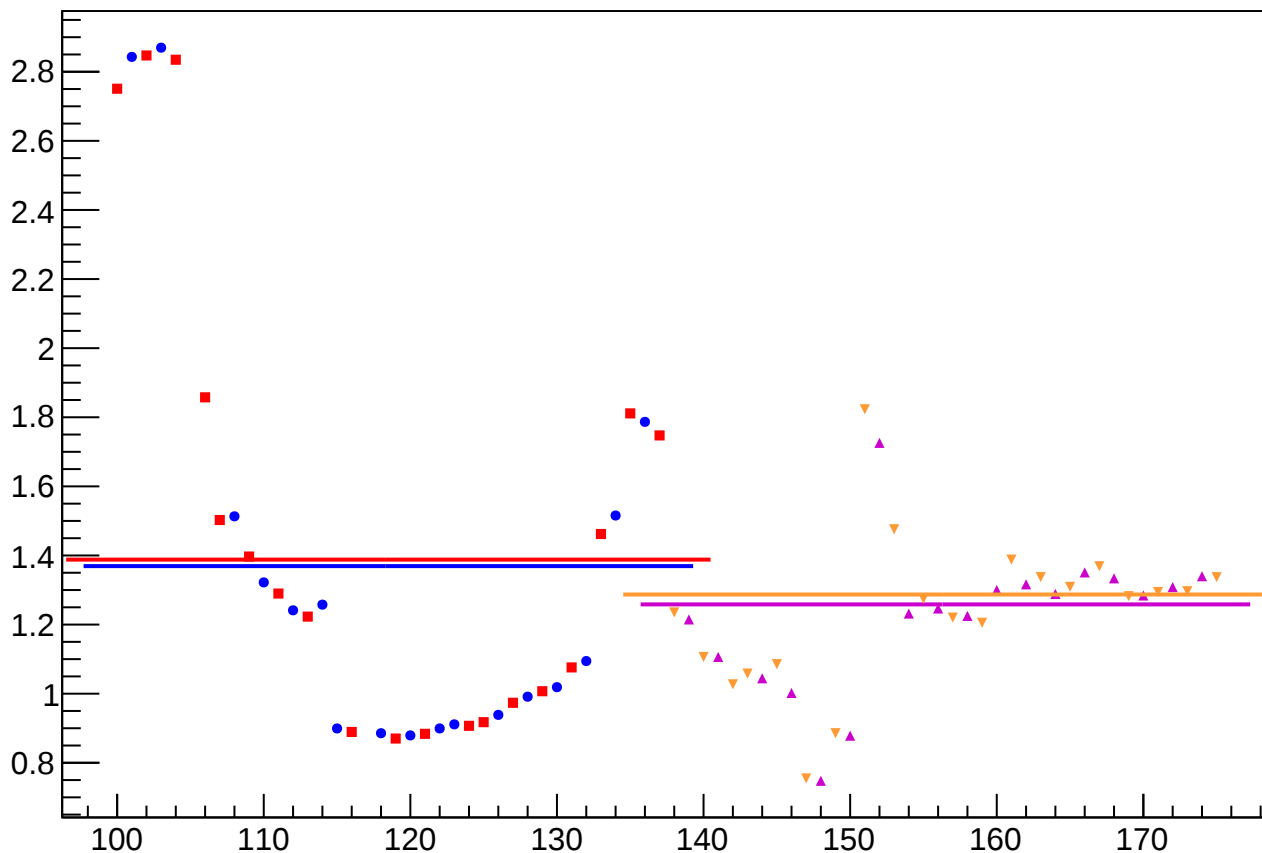
Right: 0.007+/-0.000 χ^2/NDF : 400921.9/35

In: 0.008+/-0.000 χ^2/NDF : 1209202.1/34

Out: 0.008+/-0.000 χ^2/NDF : 1082472.3/38

All: 0.008+/-0.000 χ^2/NDF : 2291747.5/73

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.369+/-0.000 χ^2/NDF : 54205395389.8/16

Left Out: 1.287+/-0.000 χ^2/NDF : 9154655599.2/19

Right Out: 1.388+/-0.000 χ^2/NDF : 49900245868.0/18

Left In: 1.258+/-0.000 χ^2/NDF : 7373998157.3/17

Left: 1.274+/-0.000 χ^2/NDF : 16613223814.9/37

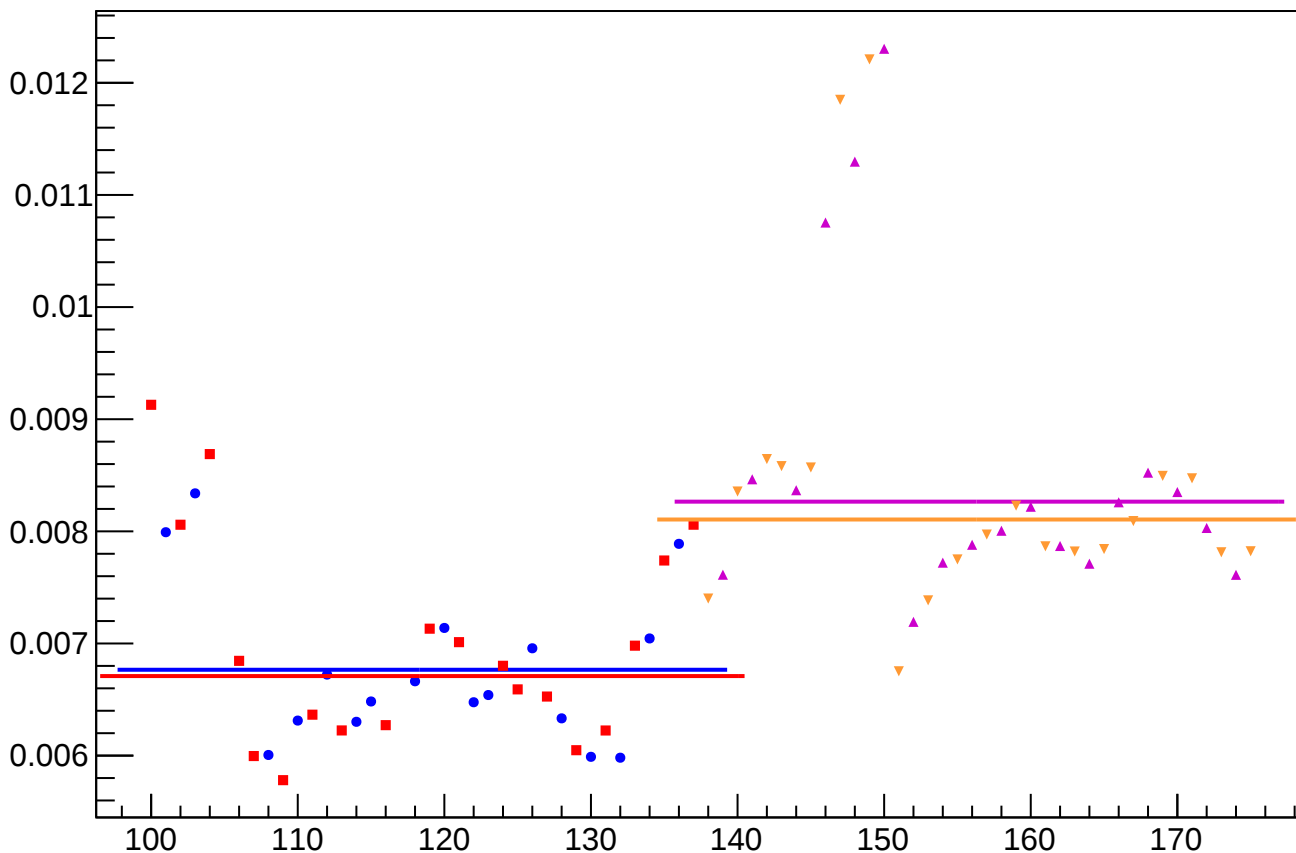
Right: 1.379+/-0.000 χ^2/NDF : 104132252851.6/35

In: 1.305+/-0.000 χ^2/NDF : 62599329496.5/34

Out: 1.329+/-0.000 χ^2/NDF : 59982271571.3/38

All: 1.318+/-0.000 χ^2/NDF : 122680387722.1

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 159554.9/16

Left Out: 0.008+/-0.000 χ^2/NDF : 421555.4/19

Right Out: 0.007+/-0.000 χ^2/NDF : 187826.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 442244.8/17

Left: 0.008+/-0.000 χ^2/NDF : 869035.5/37

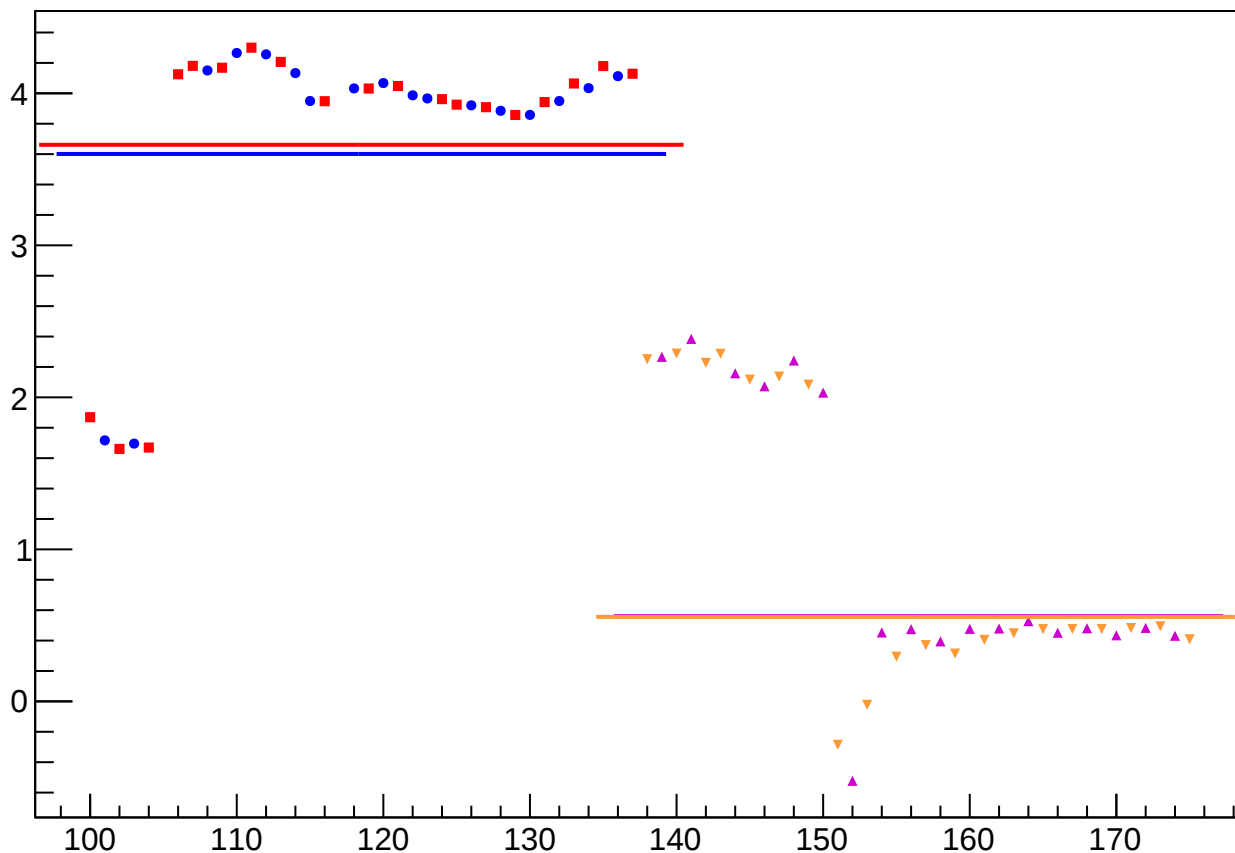
Right: 0.007+/-0.000 χ^2/NDF : 347856.0/35

In: 0.008+/-0.000 χ^2/NDF : 975475.5/34

Out: 0.008+/-0.000 χ^2/NDF : 963814.1/38

All: 0.008+/-0.000 χ^2/NDF : 1943051.1/73

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.601+/-0.000 χ^2 /NDF: 185806937655.3/16

Left Out: 0.556+/-0.000 χ^2 /NDF: 259339027700.1/19

Right Out: 3.661+/-0.000 χ^2 /NDF: 192519897222.5/18

Left In: 0.561+/-0.000 χ^2 /NDF: 255798824303.1/17

Left: 0.558+/-0.000 χ^2 /NDF: 515146006688.7/37

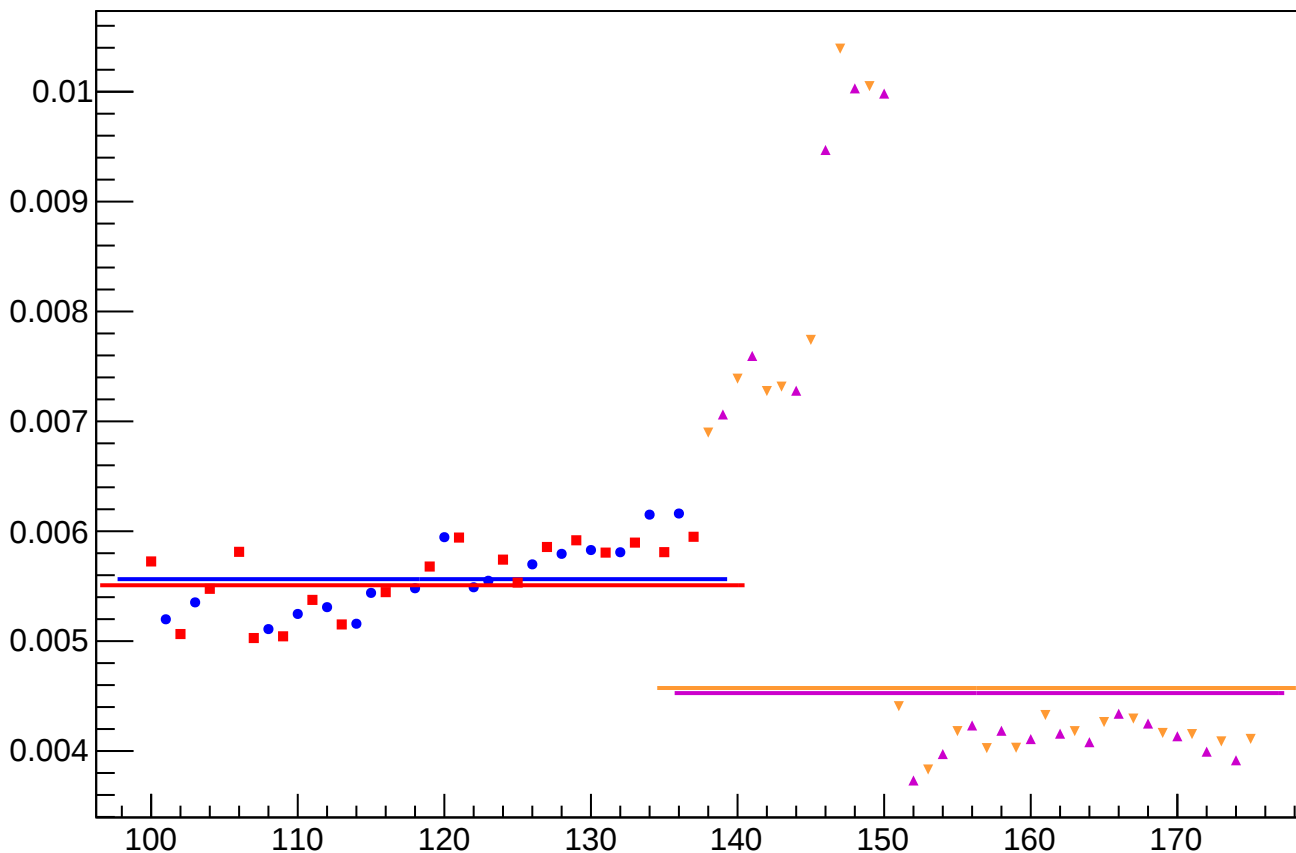
Right: 3.632+/-0.000 χ^2 /NDF: 378731188267.1/35

In: 1.364+/-0.000 χ^2 /NDF: 1910340520988.4/34

Out: 1.375+/-0.000 χ^2 /NDF: 2079802808120.8/38

All: 1.369+/-0.000 χ^2 /NDF: 3990194631047.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 47588.2/16

Left Out: 0.005+/-0.000 χ^2/NDF : 2016381.9/19

Right Out: 0.006+/-0.000 χ^2/NDF : 52634.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 2216613.4/17

Left: 0.005+/-0.000 χ^2/NDF : 4234326.8/37

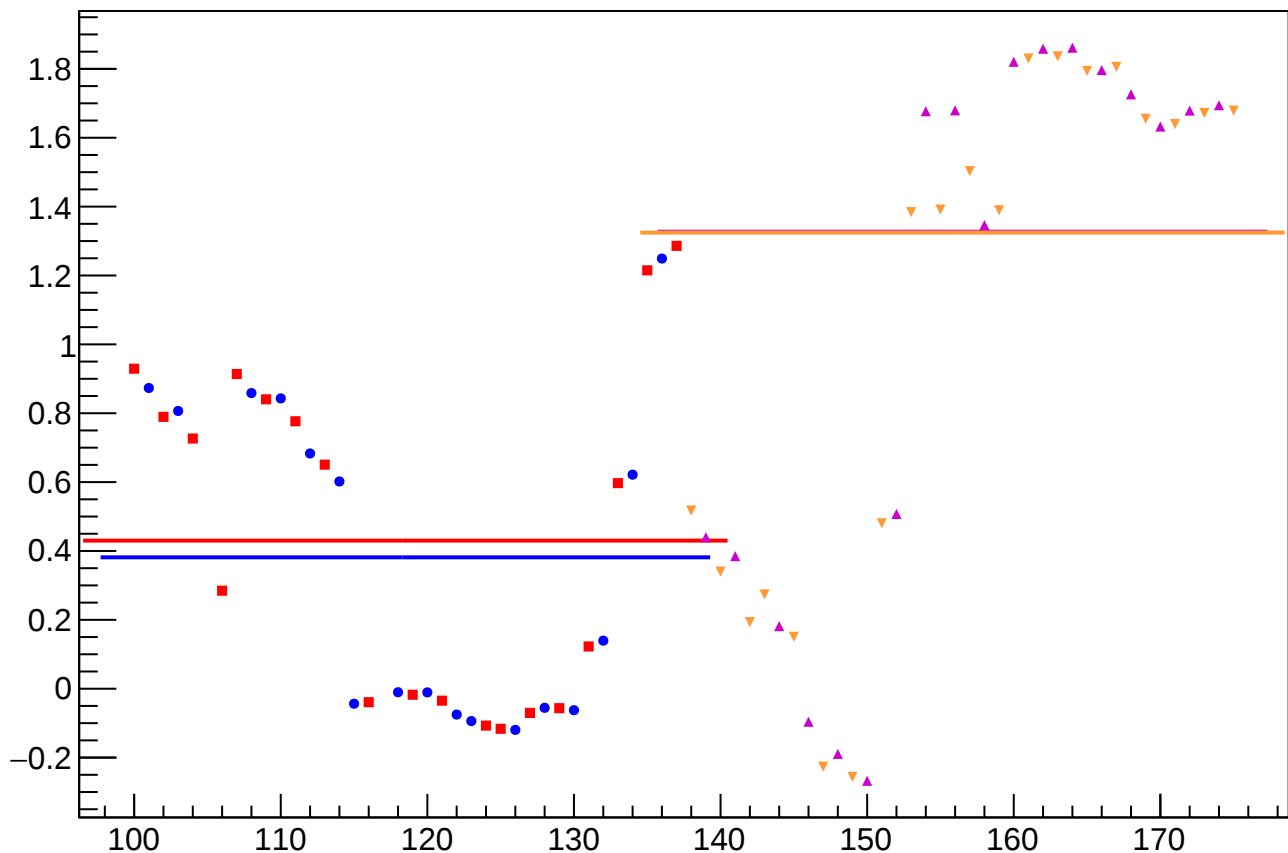
Right: 0.006+/-0.000 χ^2/NDF : 100909.6/35

In: 0.005+/-0.000 χ^2/NDF : 2605957.5/34

Out: 0.005+/-0.000 χ^2/NDF : 2364193.3/38

All: 0.005+/-0.000 χ^2/NDF : 4970457.8/73

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 7124759123.1/16

Left Out: 1.325 $\pm$ 0.000 χ^2 /NDF: 42845382204.1/19

Right Out: 0.430 $\pm$ 0.000 χ^2 /NDF: 6676199135.9/18

Left In: 1.327 $\pm$ 0.000 χ^2 /NDF: 47309525567.4/17

Left: 1.326 $\pm$ 0.000 χ^2 /NDF: 90155251796.3/37

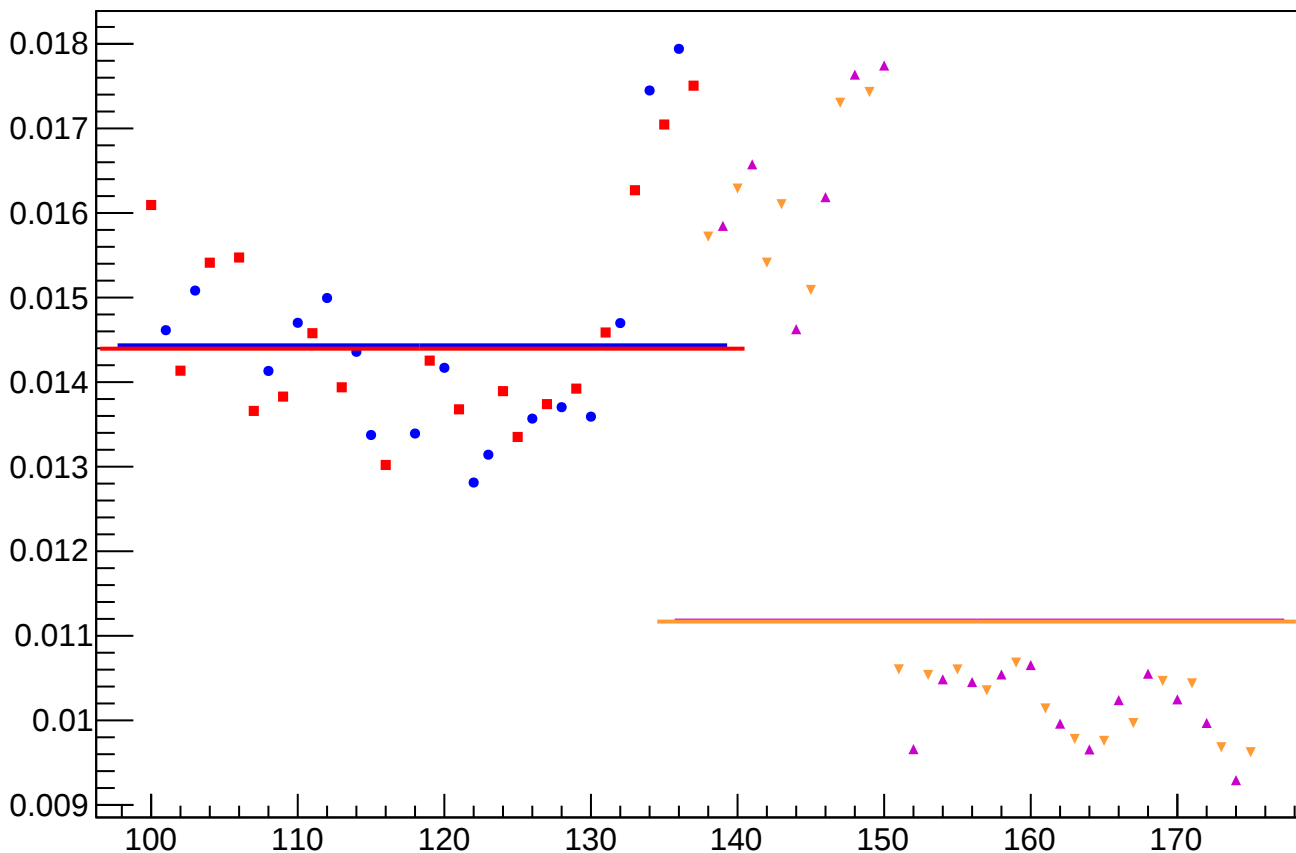
Right: 0.406 $\pm$ 0.000 χ^2 /NDF: 13839390791.2/35

In: 1.108 $\pm$ 0.000 χ^2 /NDF: 76271860715.5/34

Out: 1.122 $\pm$ 0.000 χ^2 /NDF: 70247618611.7/38

All: 1.115 $\pm$ 0.000 χ^2 /NDF: 146532416460.1

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 110224.4/16

Left Out: 0.011+/-0.000 χ^2/NDF :1175947.4/19

Right Out: 0.014+/-0.000 χ^2/NDF : 74531.6/18

Left In: 0.011+/-0.000 χ^2/NDF :1213543.2/17

Left: 0.011+/-0.000 χ^2/NDF : 2389505.5/37

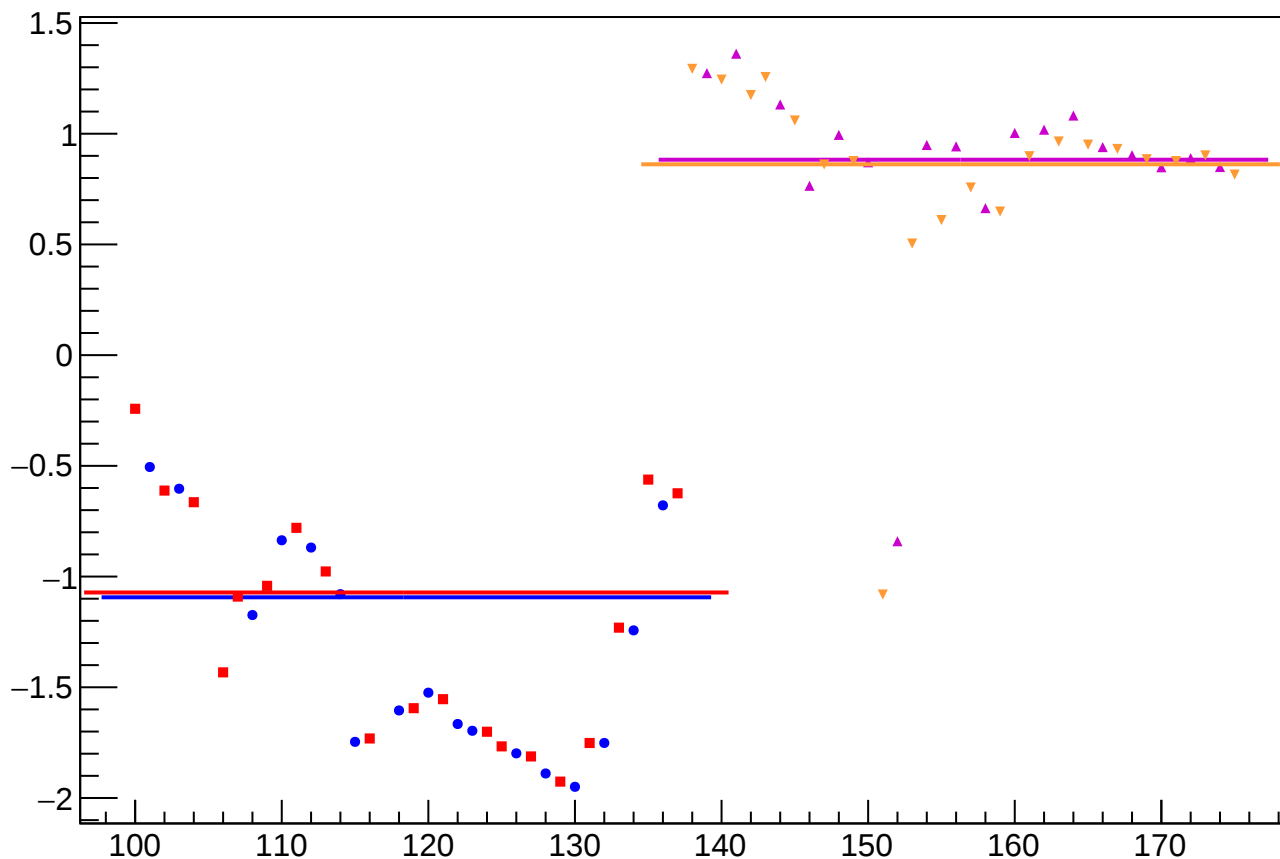
Right: 0.014+/-0.000 χ^2/NDF : 184806.5/35

In: 0.012+/-0.000 χ^2/NDF :1841292.1/34

Out: 0.012+/-0.000 χ^2/NDF :1790000.6/38

All: 0.012+/-0.000 χ^2/NDF : 3631448.4/73

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.094+/-0.000 χ^2/NDF : 55960104370.4/16

Left Out: 0.862+/-0.000 χ^2/NDF : 125036381654.9/19

Right Out: -1.072+/-0.000 χ^2/NDF : 46896017480.0/18

Left In: 0.883+/-0.000 χ^2/NDF : 145874560282.2/17

Left: 0.872+/-0.000 χ^2/NDF : 271118911129.7/37

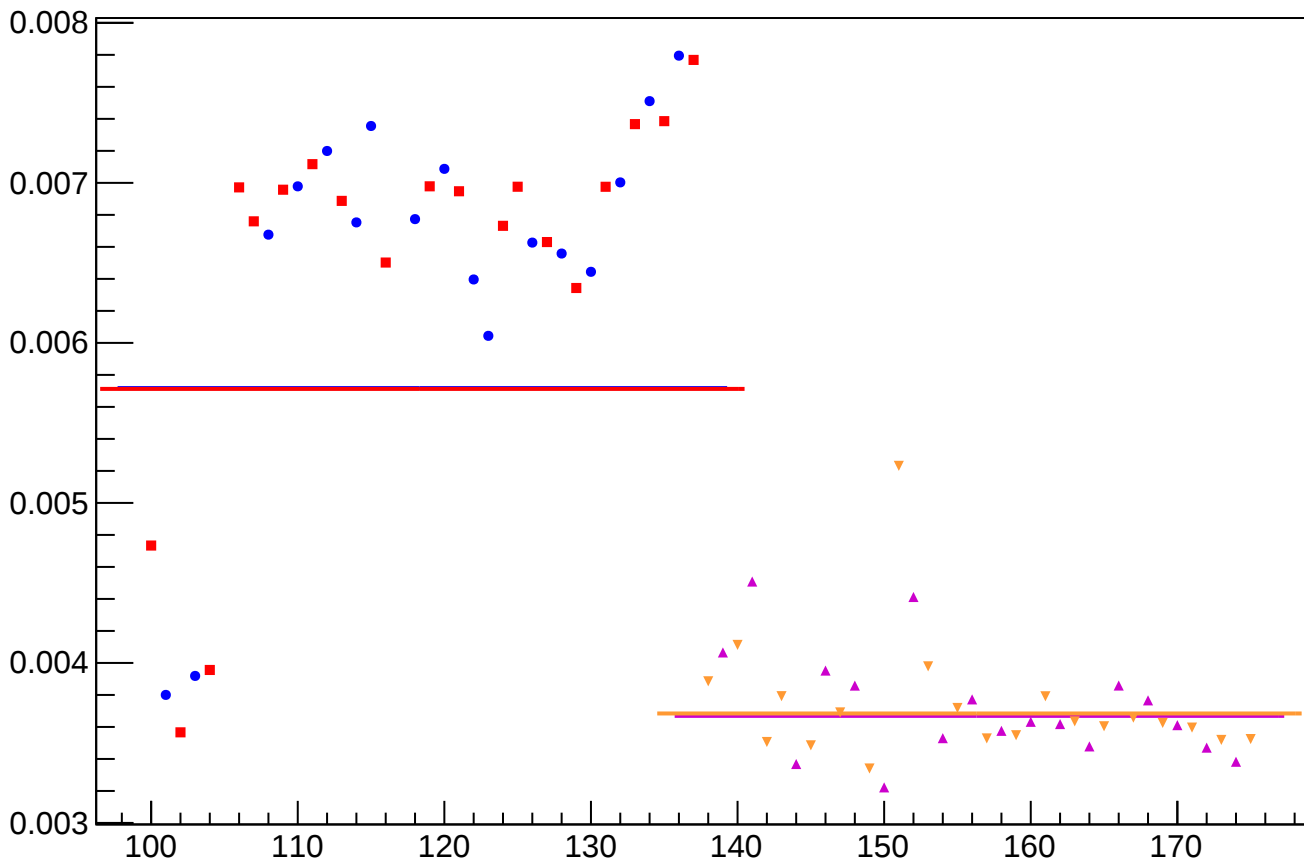
Right: -1.083+/-0.000 χ^2/NDF : 102900070258.1/35

In: 0.561+/-0.000 χ^2/NDF : 795767831676.8/34

Out: 0.555+/-0.000 χ^2/NDF : 766038065009.9/38

All: 0.558+/-0.000 χ^2/NDF : 1561825568427.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 837775.0/16

Left Out: 0.004+/-0.000 χ^2/NDF :170837.5/19

Right Out: 0.006+/-0.000 χ^2/NDF : 923899.1/18

Left In: 0.004+/-0.000 χ^2/NDF :188340.9/17

Left: 0.004+/-0.000 χ^2/NDF : 359393.9/37

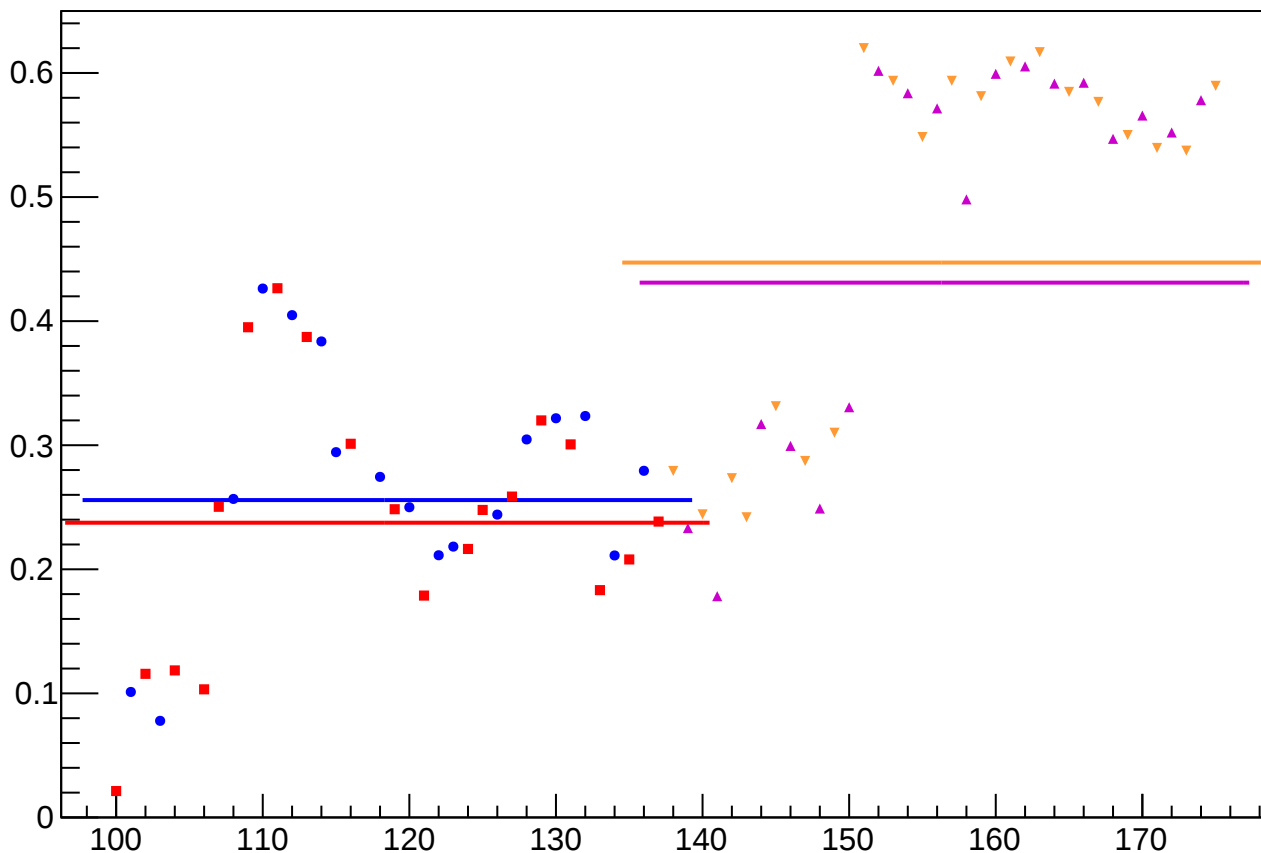
Right: 0.006+/-0.000 χ^2/NDF : 1761678.7/35

In: 0.004+/-0.000 χ^2/NDF :2302069.2/34

Out: 0.004+/-0.000 χ^2/NDF :2401981.6/38

All: 0.004+/-0.000 χ^2/NDF : 4704063.5/73

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000

χ^2/NDF : 21365489849.4/16

Left: 0.440+/-0.000 χ^2/NDF : 178032805512.8/37

Right: 0.246+/-0.000 χ^2/NDF : 47851542841.4/35

Left Out: 0.447+/-0.000

χ^2/NDF : 90374253982.3/19

In: 0.359+/-0.000 χ^2/NDF : 152801304571.7/34

Right Out: 0.238+/-0.000

χ^2/NDF : 26057284646.9/18

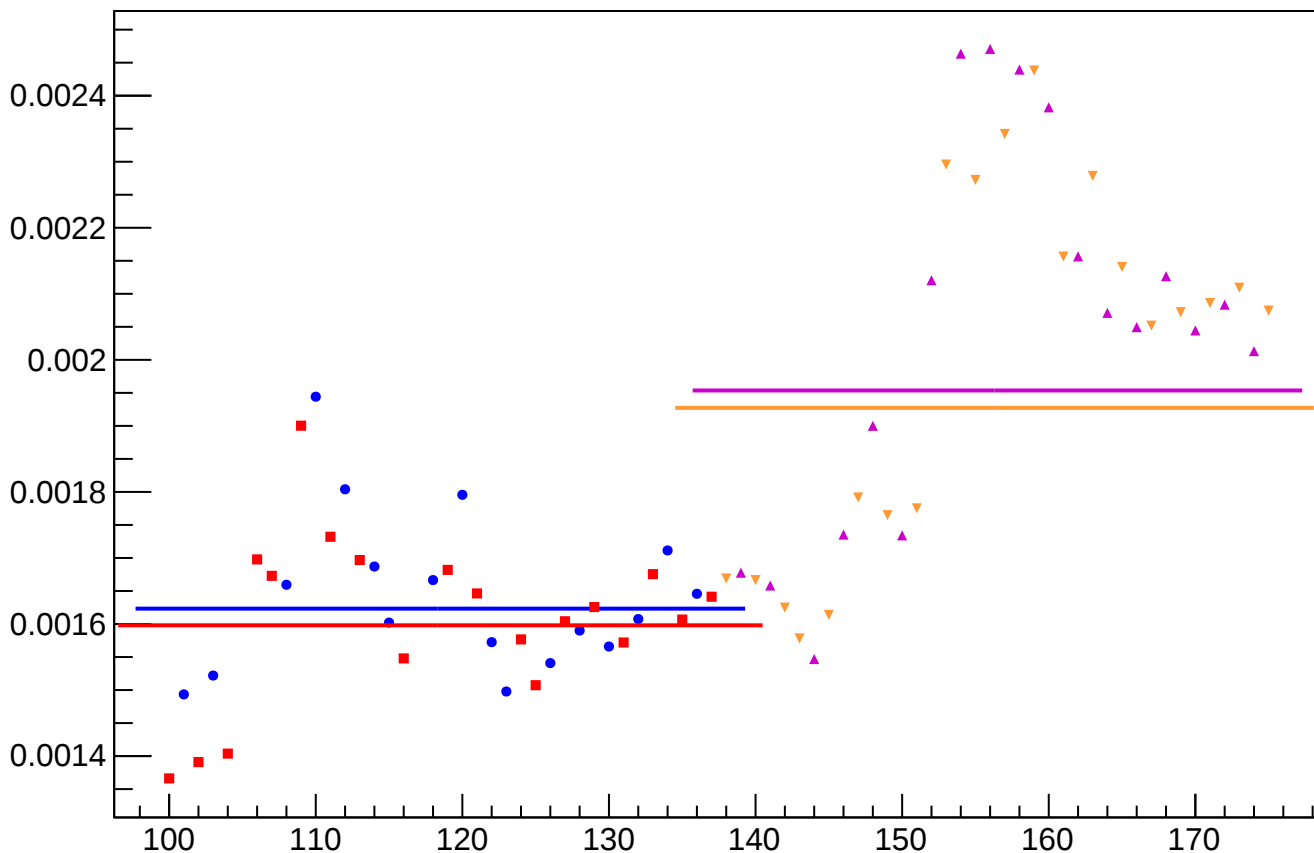
Out: 0.361+/-0.000 χ^2/NDF : 187129741964.8/38

Left In: 0.431+/-0.000

χ^2/NDF : 87172959879.3/17

All: 0.360+/-0.000 χ^2/NDF : 339947370281.0

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52468.7/16

Left Out: 0.002+/-0.000 χ^2/NDF :561773.7/19

Right Out: 0.002+/-0.000 χ^2/NDF : 90678.4/18

Left In: 0.002+/-0.000 χ^2/NDF :564774.7/17

Left: 0.002+/-0.000 χ^2/NDF : 1129115.5/37

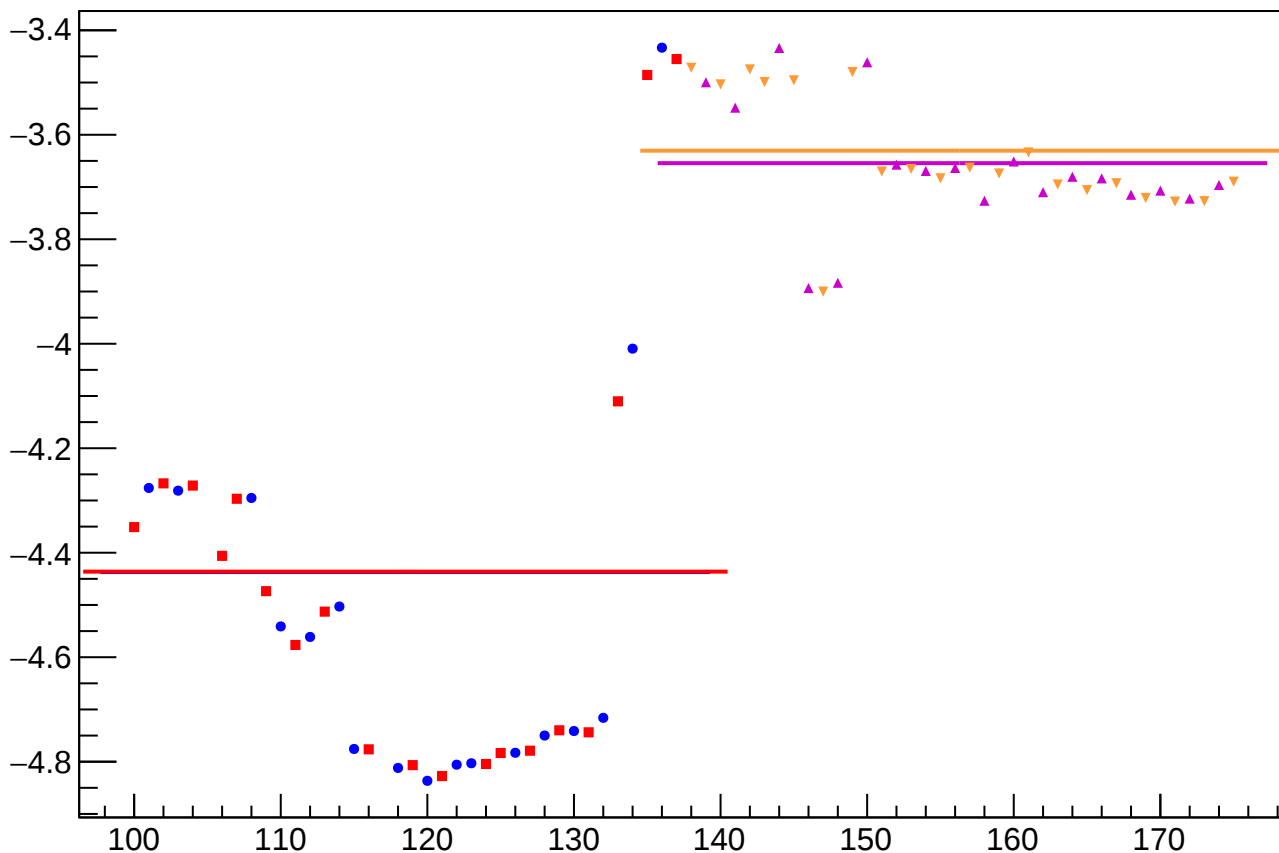
Right: 0.002+/-0.000 χ^2/NDF : 144790.6/35

In: 0.002+/-0.000 χ^2/NDF :931862.1/34

Out: 0.002+/-0.000 χ^2/NDF :1001238.3/38

All: 0.002+/-0.000 χ^2/NDF : 1937192.5/73

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.437+/-0.000 χ^2/NDF : 392812415429.0/16

Left Out: -3.630+/-0.000 χ^2/NDF : 40828381671.2/19

Right Out: -4.436+/-0.000 χ^2/NDF : 325183860699.4/18

Left In: -3.654+/-0.000 χ^2/NDF : 46013869503.9/17

Left: -3.642+/-0.000 χ^2/NDF : 87733090219.0/37

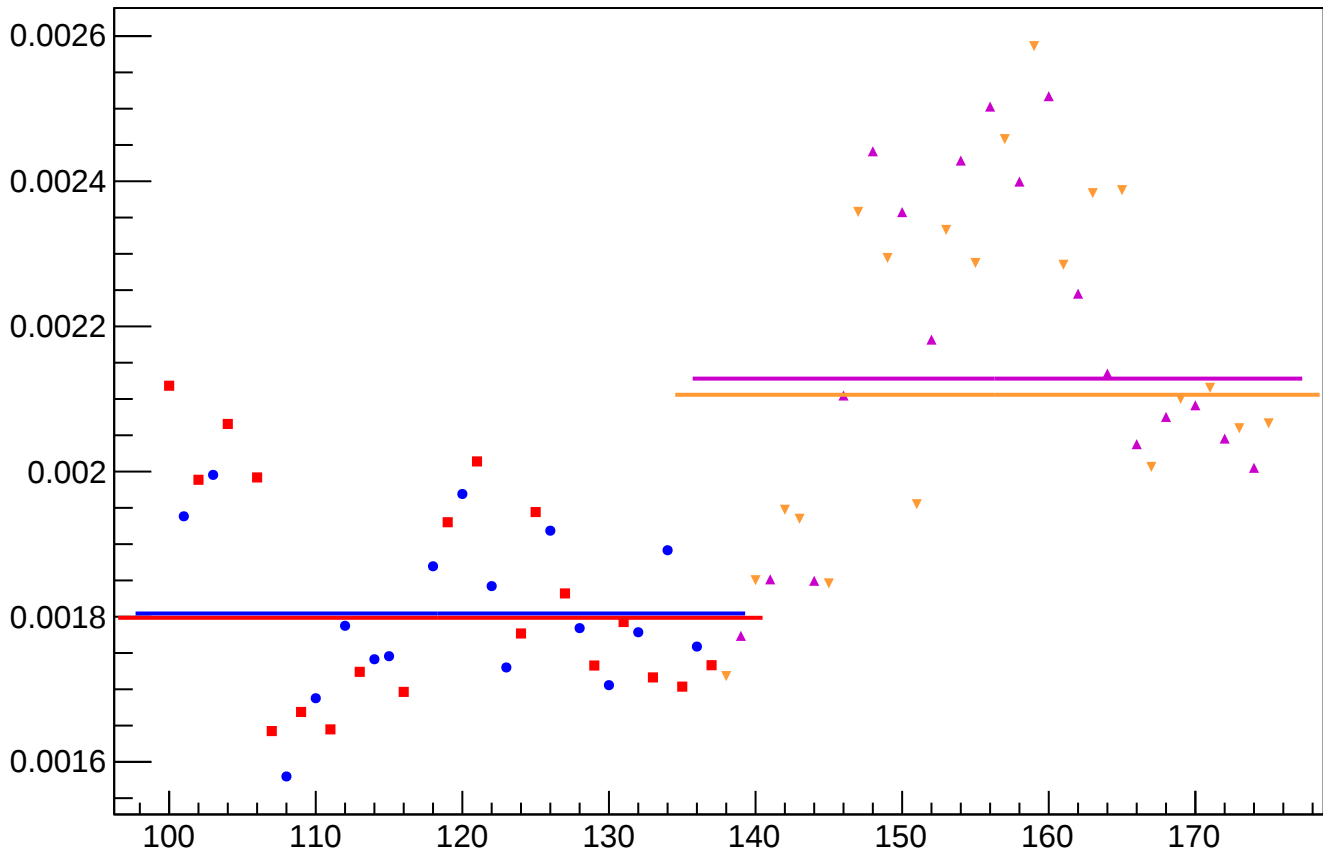
Right: -4.437+/-0.000 χ^2/NDF : 717996921060.6/35

In: -3.968+/-0.000 χ^2/NDF : 1172294992355.2/34

Out: -3.947+/-0.000 χ^2/NDF : 1202676645550.7/38

All: -3.957+/-0.000 χ^2/NDF : 2376084643084

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 49103.2/16

Left Out: 0.002+/-0.000 χ^2/NDF : 344236.4/19

Right Out: 0.002+/-0.000 χ^2/NDF : 81021.0/18

Left In: 0.002+/-0.000 χ^2/NDF : 305111.0/17

Left: 0.002+/-0.000 χ^2/NDF : 650899.9/37

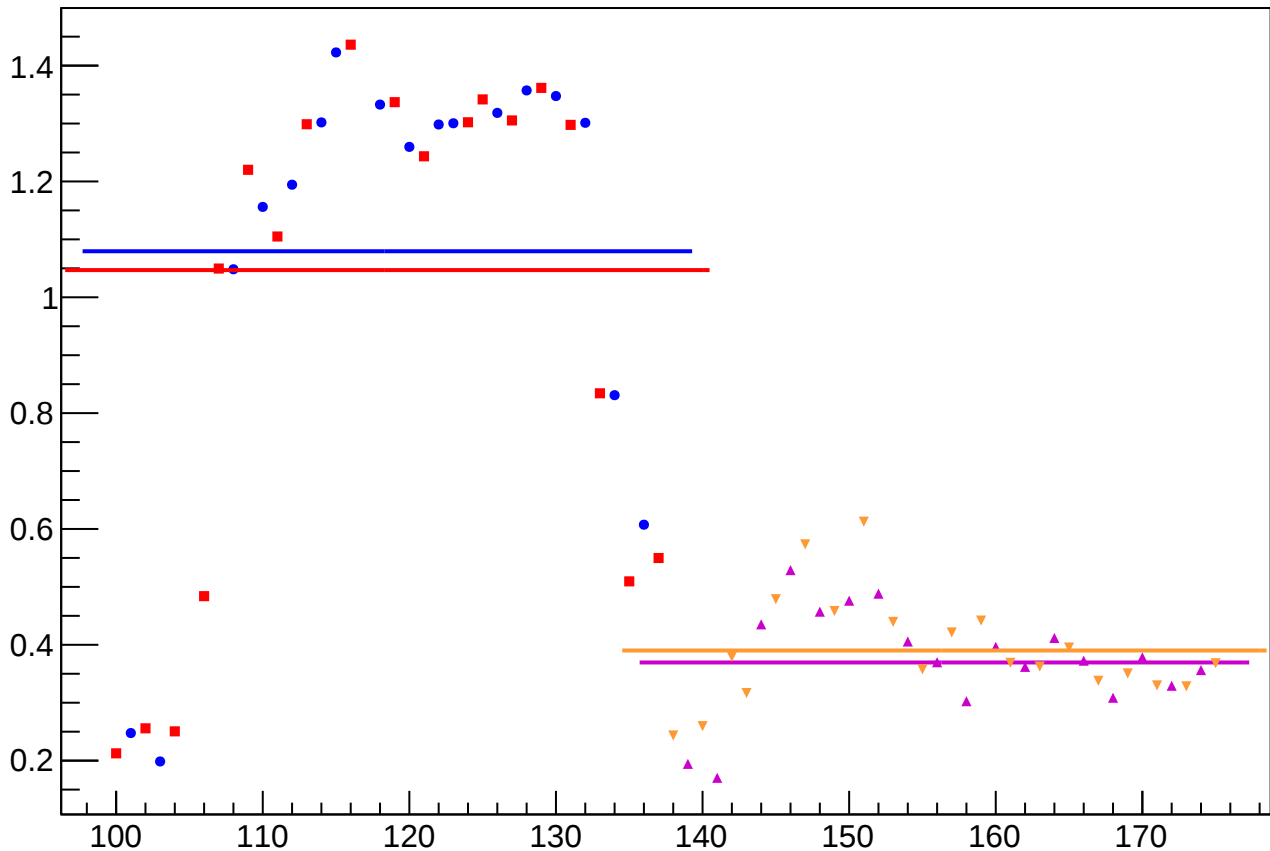
Right: 0.002+/-0.000 χ^2/NDF : 130196.1/35

In: 0.002+/-0.000 χ^2/NDF : 605068.4/34

Out: 0.002+/-0.000 χ^2/NDF : 668625.2/38

All: 0.002+/-0.000 χ^2/NDF : 1274624.5/73

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.080 $\pm$ 0.000 χ^2 /NDF: 17533321220.5/16

Left Out: 0.390 $\pm$ 0.000 χ^2 /NDF:1380580609.9/19

Right Out: 1.047 $\pm$ 0.000 χ^2 /NDF: 19683192379.0/18

Left In: 0.370 $\pm$ 0.000 χ^2 /NDF:1106335655.7/17

Left: 0.380 $\pm$ 0.000 χ^2 /NDF: 2521447183.0/37

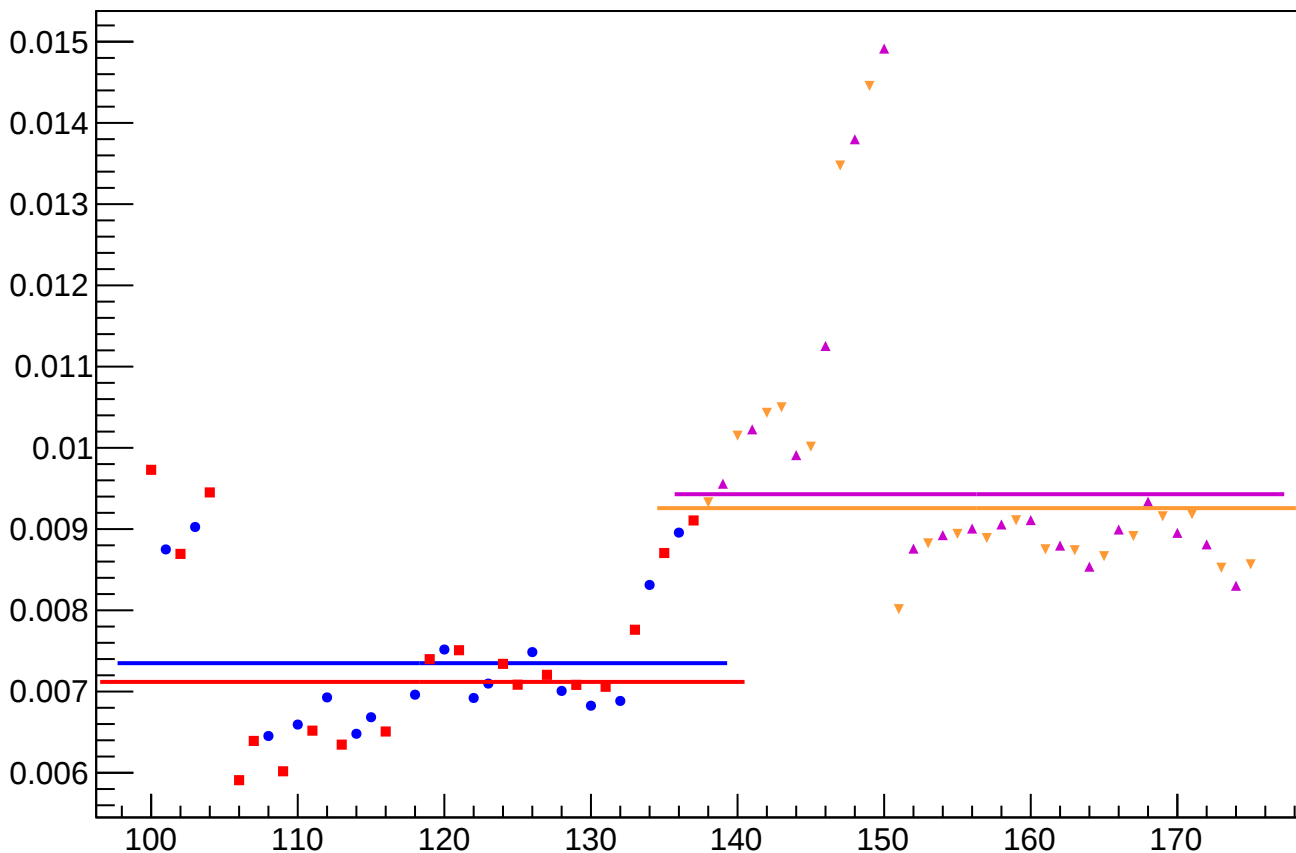
Right: 1.062 $\pm$ 0.000 χ^2 /NDF: 37285218980.1/35

In: 0.685 $\pm$ 0.000 χ^2 /NDF:52875937750.7/34

Out: 0.683 $\pm$ 0.000 χ^2 /NDF:53989985728.6/38

All: 0.684 $\pm$ 0.000 χ^2 /NDF: 106866870868.6

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 : 496499.7/19

Right Out: 0.007+/-0.000 χ^2/NDF : 259112.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 535283.5/17

Left: 0.009+/-0.000 χ^2/NDF : 1036527.0/37

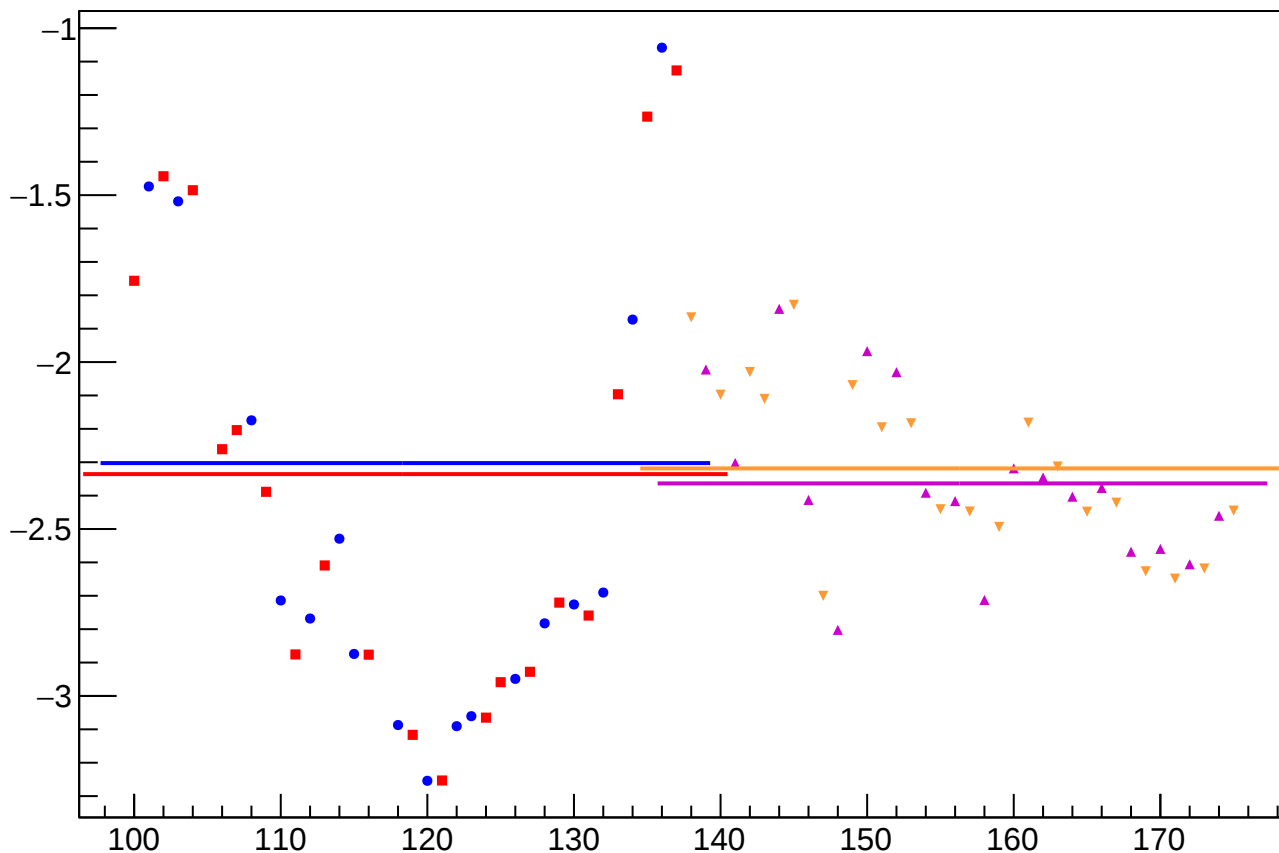
Right: 0.007+/-0.000 χ^2/NDF : 446823.4/35

In: 0.009+/-0.000 χ^2/NDF : 1303714.5/34

Out: 0.008+/-0.000 χ^2/NDF : 1454277.9/38

All: 0.008+/-0.000 χ^2/NDF : 2769544.6/73

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.303+/-0.000 χ^2/NDF : 73755914805.8/16

Left Out: -2.319+/-0.000 χ^2/NDF : 11825902160.2/19

Right Out: -2.336+/-0.000 χ^2/NDF : 64499162456.4/18

Left In: -2.363+/-0.000 χ^2/NDF : 10633586135.6/17

Left: -2.340+/-0.000 χ^2/NDF : 22653338477.8/37

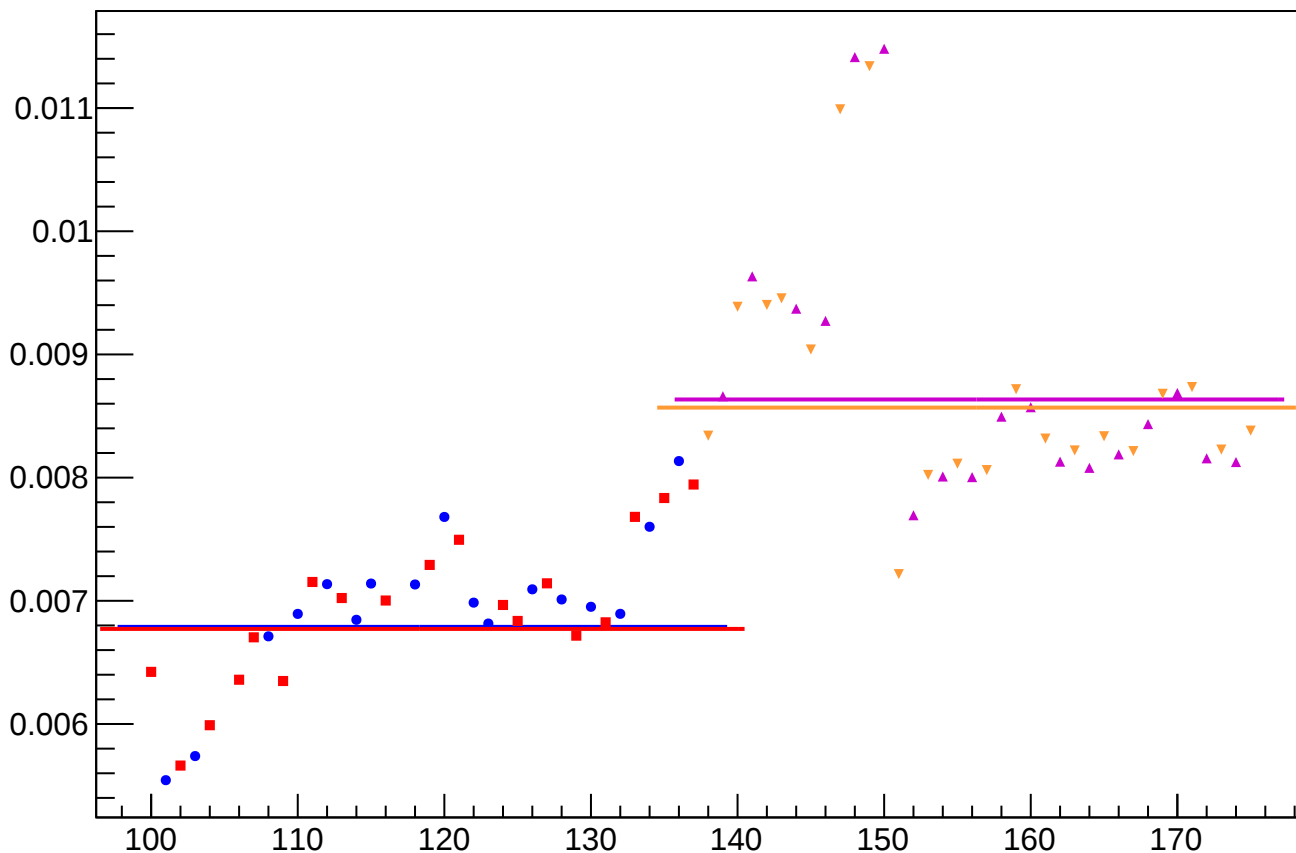
Right: -2.320+/-0.000 χ^2/NDF : 138336112561.8/35

In: -2.337+/-0.000 χ^2/NDF : 84688859326.0/34

Out: -2.326+/-0.000 χ^2/NDF : 76350336953.1/38

All: -2.331+/-0.000 χ^2/NDF : 161059080081.9

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 : 293959.4/19

Right Out: 0.007+/-0.000 χ^2/NDF : 123244.0/18

Left In: 0.009+/-0.000 χ^2/NDF : 309031.4/17

Left: 0.009+/-0.000 χ^2/NDF : 603827.3/37

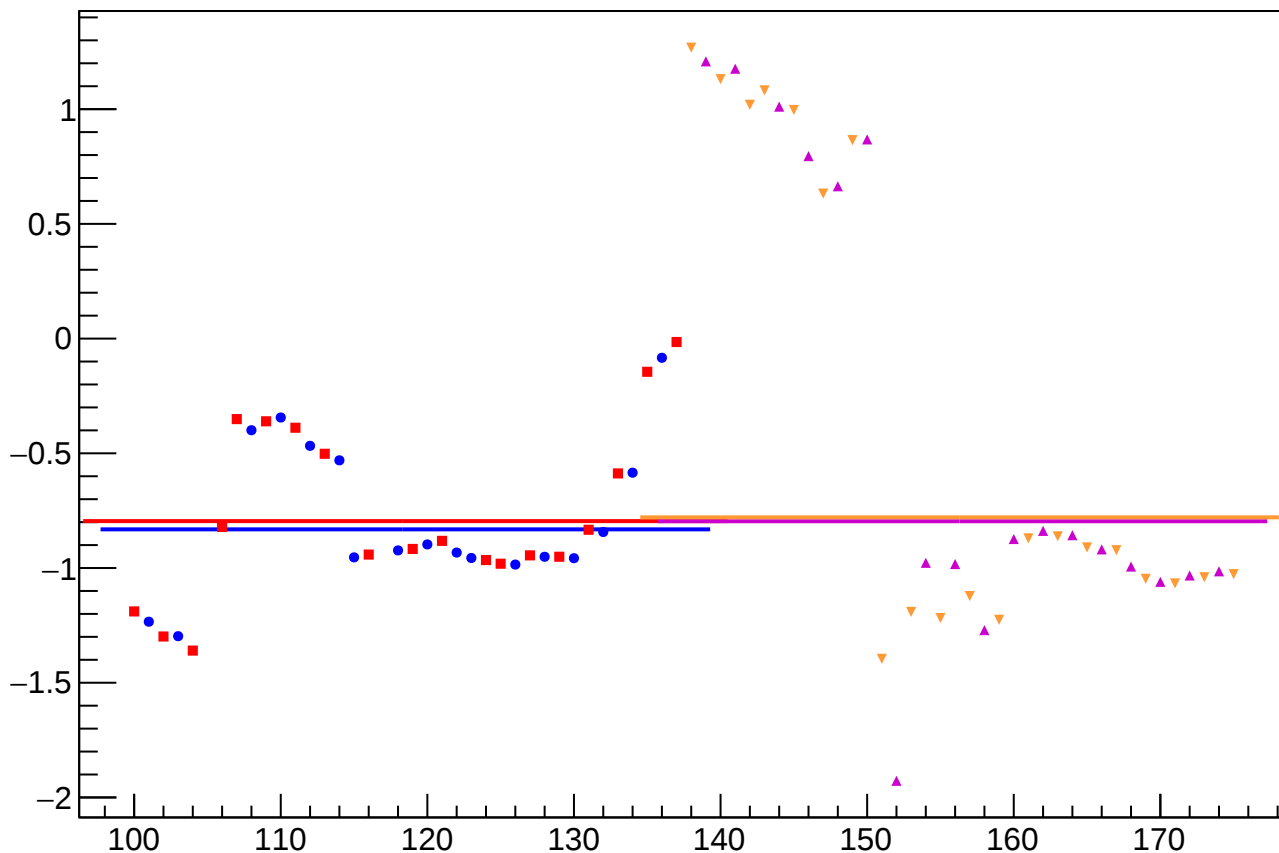
Right: 0.007+/-0.000 χ^2/NDF : 288483.5/35

In: 0.008+/-0.000 χ^2/NDF : 1025186.7/34

Out: 0.008+/-0.000 χ^2/NDF : 980955.7/38

All: 0.008+/-0.000 χ^2/NDF : 2006509.8/73

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6692170860.9/16

Left Out: -0.779+/-0.000

χ^2/NDF : 118458736738.2/19

Right Out: -0.796+/-0.000

χ^2/NDF : 7821744046.6/18

Left In: -0.796+/-0.000

χ^2/NDF : 123358425559.3/17

Left: -0.787+/-0.000

χ^2/NDF : 241848149771.1/37

Right: -0.813+/-0.000

χ^2/NDF : 14551426152.3/35

In: -0.804+/-0.000

χ^2/NDF : 130105950550.2/34

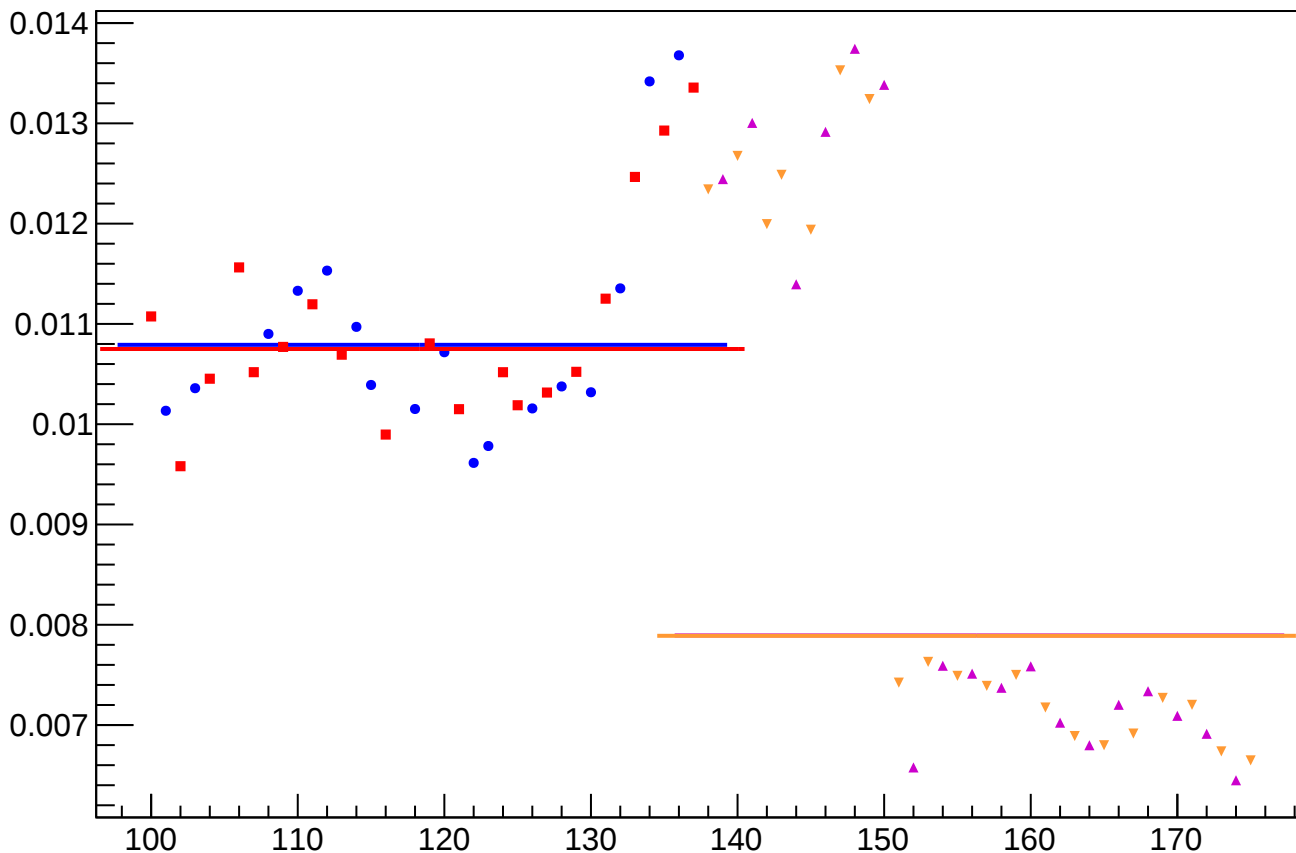
Out: -0.783+/-0.000

χ^2/NDF : 126293148658.8/38

All: -0.793+/-0.000

χ^2/NDF : 256460011645.2

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 125802.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :1634571.0/19

Right Out: 0.011+/-0.000 χ^2/NDF : 90220.8/18

Left In: 0.008+/-0.000 χ^2/NDF :1672965.7/17

Left: 0.008+/-0.000 χ^2/NDF : 3307540.0/37

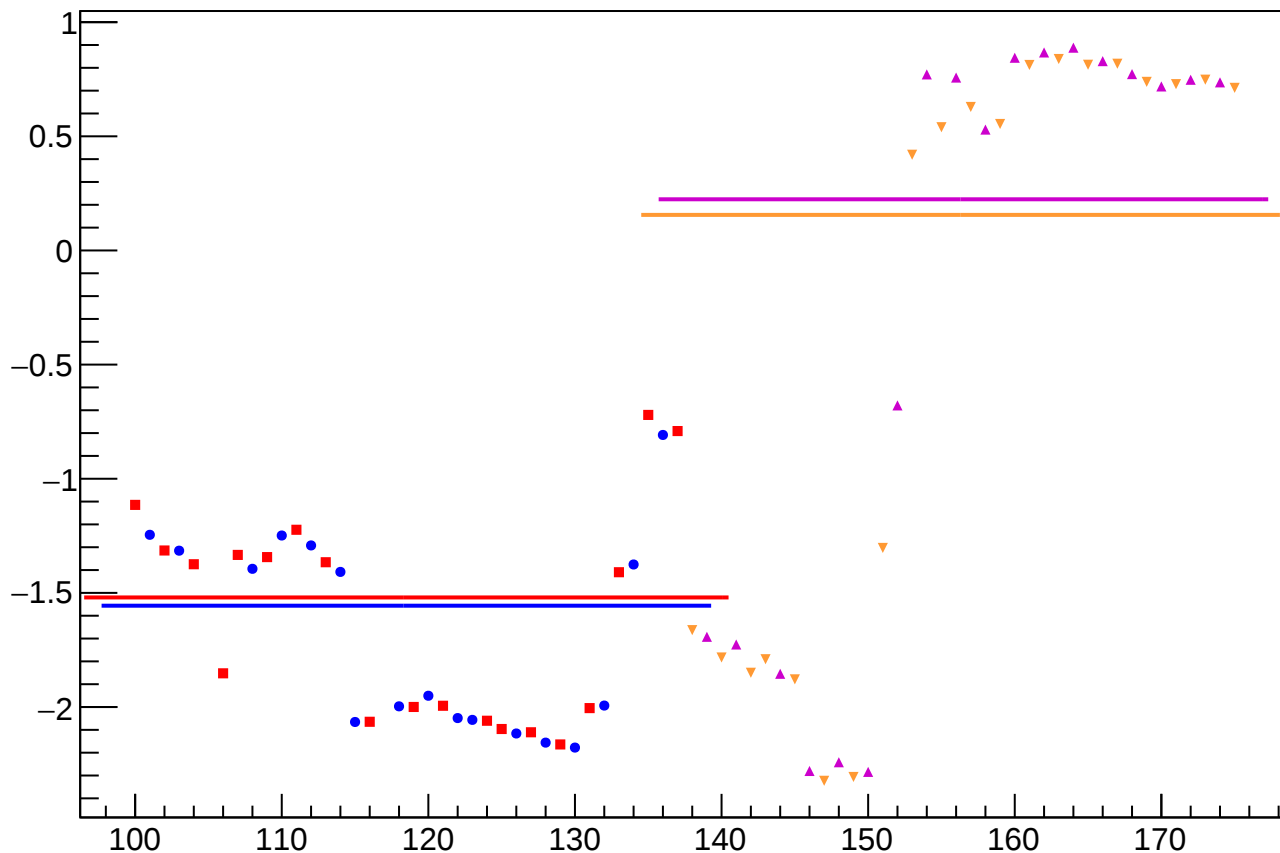
Right: 0.011+/-0.000 χ^2/NDF : 216122.9/35

In: 0.009+/-0.000 χ^2/NDF :2542416.0/34

Out: 0.008+/-0.000 χ^2/NDF :2495005.0/38

All: 0.009+/-0.000 χ^2/NDF : 5037575.2/73

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.556+/-0.000 χ^2/NDF : 154972763568.8/16

Left Out: 0.156+/-0.000 χ^2/NDF : 2365299031551.6/19

Right Out: -1.520+/-0.000 χ^2/NDF : 138464991806.4/18

Left In: 0.224+/-0.000 χ^2/NDF : 2140462165395.8/17

Left: 0.188+/-0.000 χ^2/NDF : 4510466472209.3/37

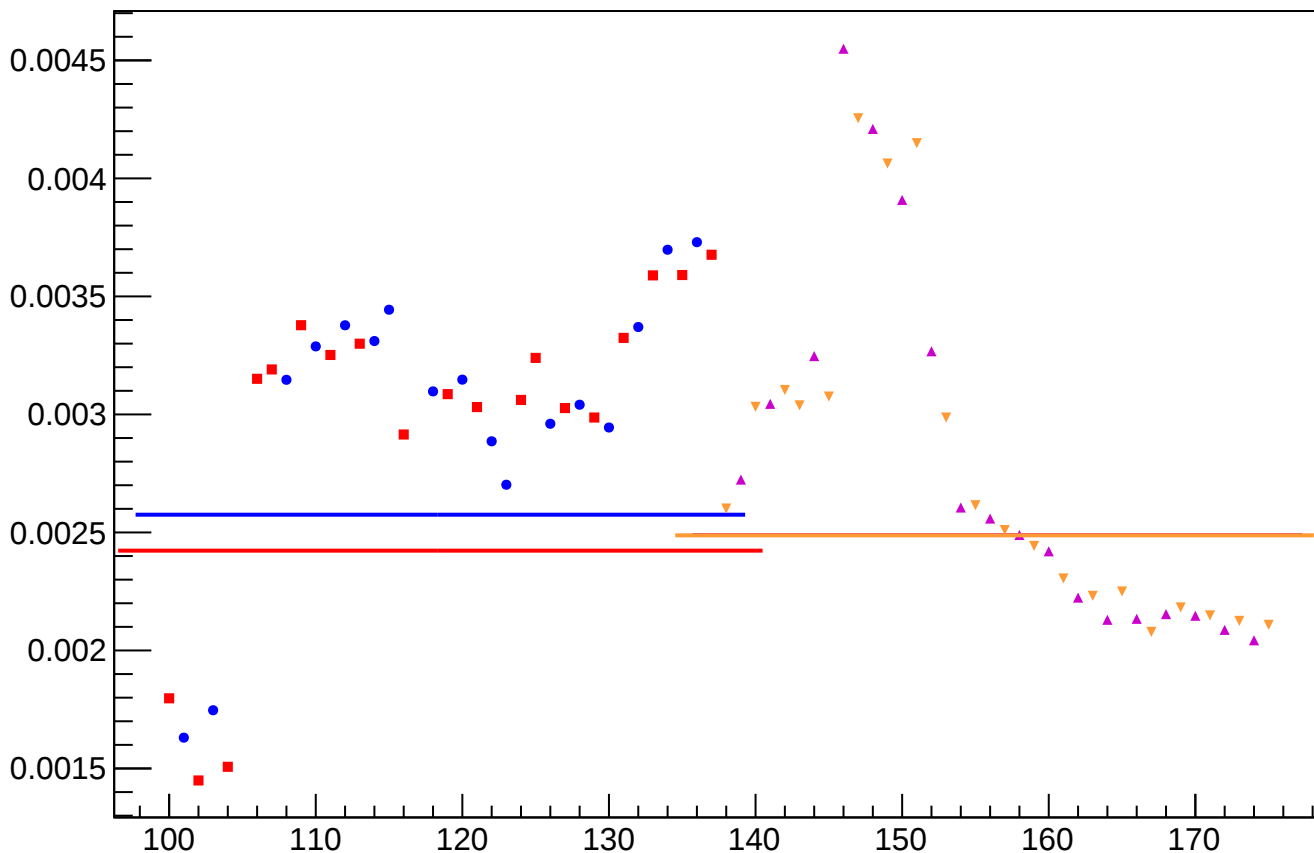
Right: -1.537+/-0.000 χ^2/NDF : 294029827862.9/35

In: -0.321+/-0.000 χ^2/NDF : 4171487670135.1/34

Out: -0.371+/-0.000 χ^2/NDF : 4363849287091.9/38

All: -0.347+/-0.000 χ^2/NDF : 8538909065067

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1013833.9/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1043862.8/19

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 1490134.1/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1113445.2/17

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2157311.1/37

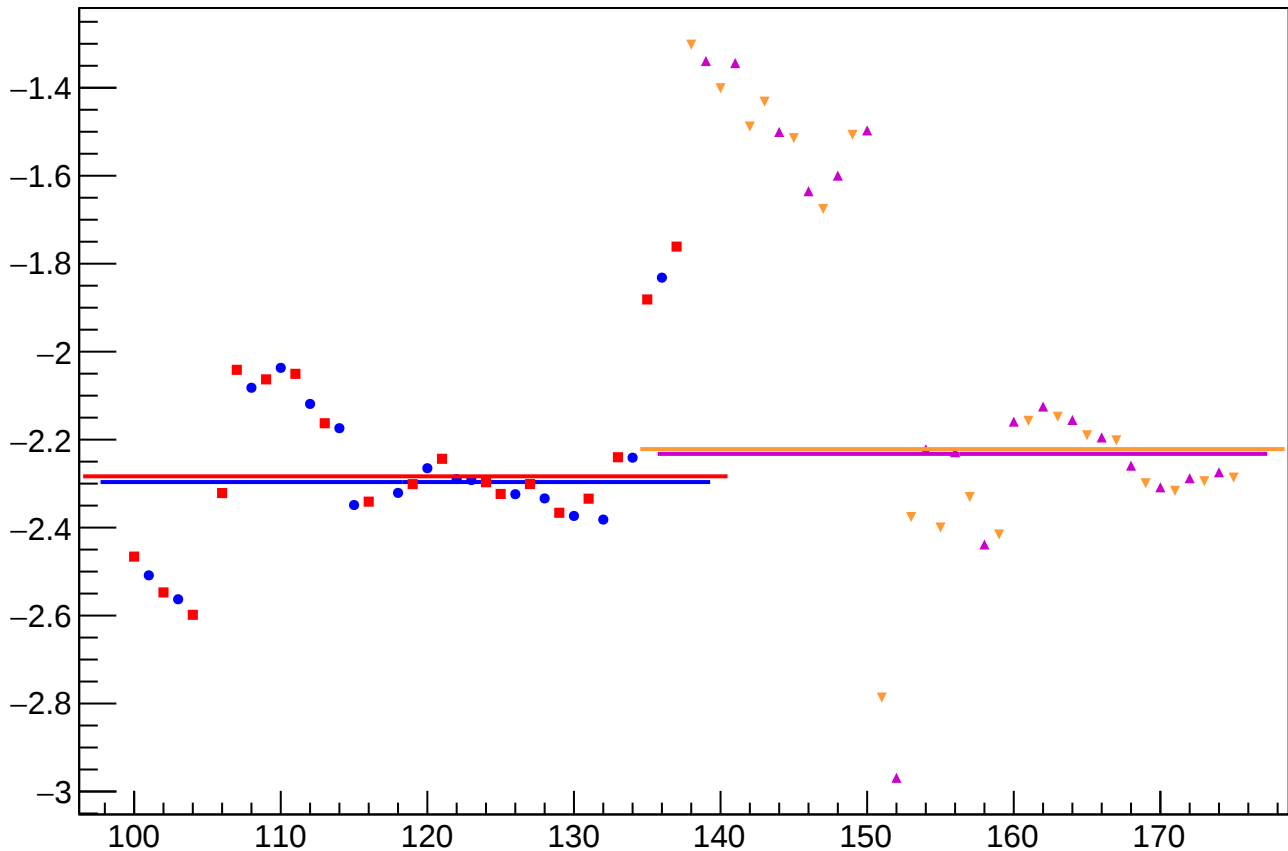
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 2524978.4/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF:2136060.4/34

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:2539576.2/38

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 4682377.9/73

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5782980938.4/16

Left Out: -2.221+/-0.000 χ^2/NDF : 52576717150.2/19

Right Out: -2.283+/-0.000 χ^2/NDF : 6548716896.9/18

Left In: -2.232+/-0.000 χ^2/NDF : 66943025270.1/17

Left: -2.227+/-0.000 χ^2/NDF : 119553481551.7/37

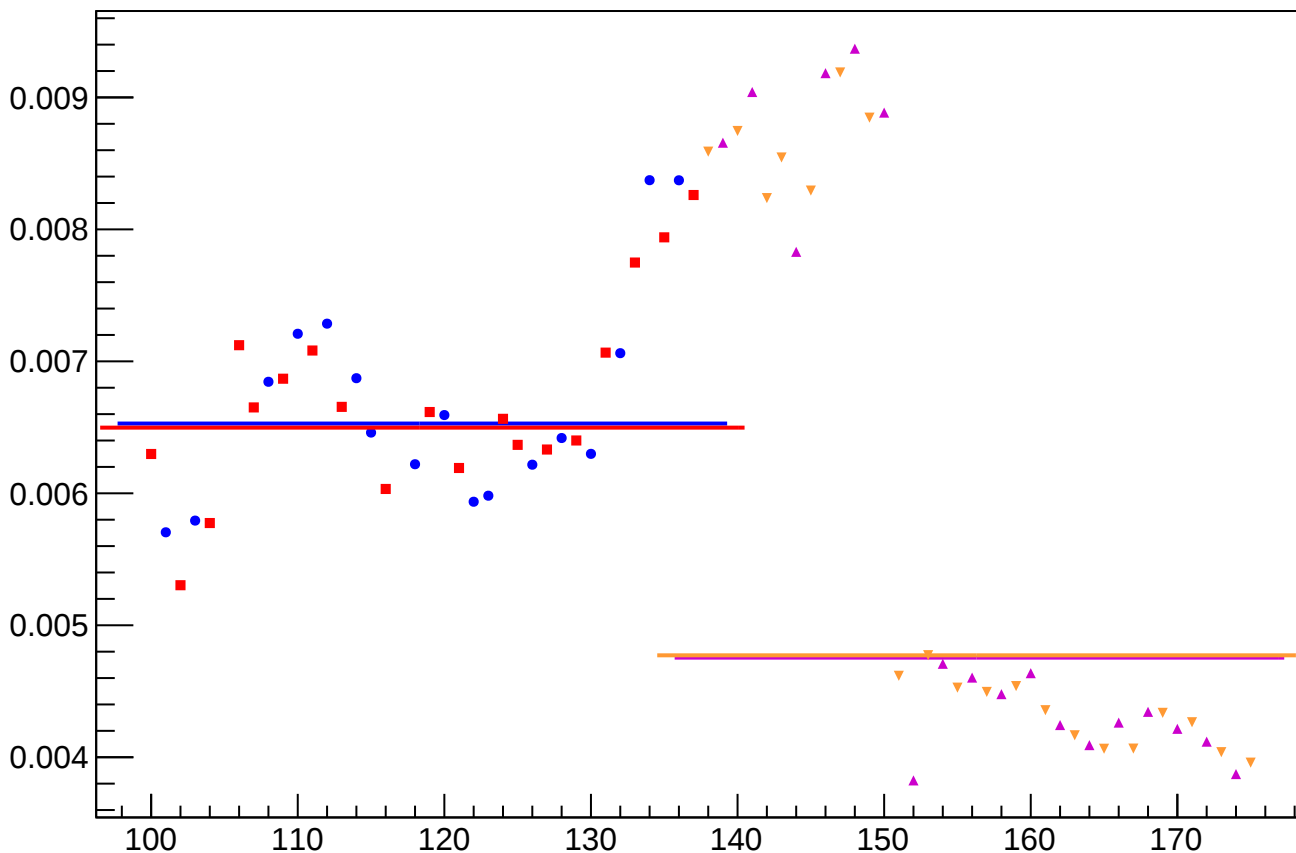
Right: -2.290+/-0.000 χ^2/NDF : 12344935761.7/35

In: -2.246+/-0.000 χ^2/NDF : 73213036102.7/34

Out: -2.235+/-0.000 χ^2/NDF : 59610053899.0/38

All: -2.240+/-0.000 χ^2/NDF : 132871488747.3

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 176467.7/16

Left Out: 0.005+/-0.000 χ^2/NDF : 2219532.2/19

Right Out: 0.006+/-0.000 χ^2/NDF : 164144.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 2273701.2/17

Left: 0.005+/-0.000 χ^2/NDF : 4493406.6/37

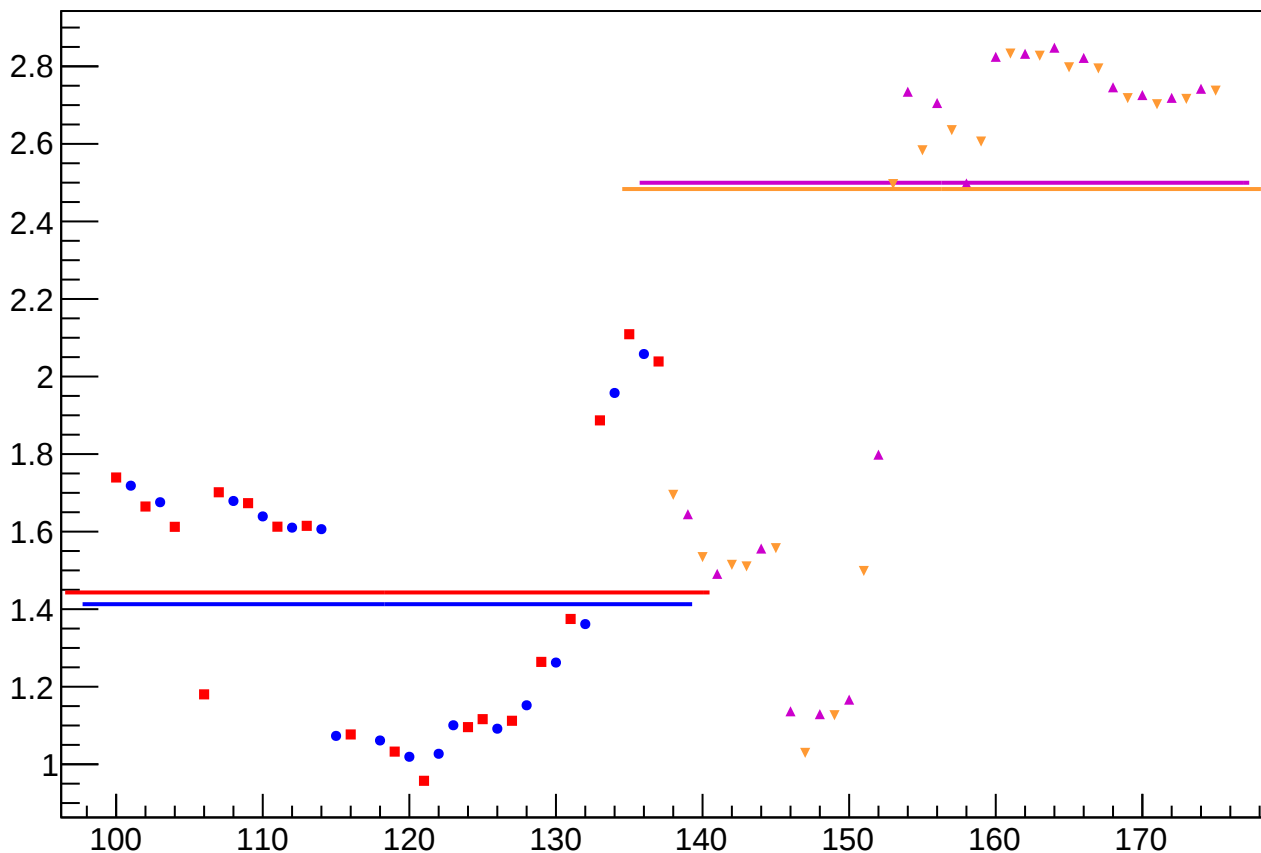
Right: 0.007+/-0.000 χ^2/NDF : 340761.0/35

In: 0.005+/-0.000 χ^2/NDF : 3196719.5/34

Out: 0.005+/-0.000 χ^2/NDF : 3134935.5/38

All: 0.005+/-0.000 χ^2/NDF : 6331656.3/73

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.413+/-0.000 χ^2/NDF : 172560306608.0/16

Left Out: 2.484+/-0.000 χ^2/NDF : 245735790976.4/19

Right Out: 1.443+/-0.000 χ^2/NDF : 173290449342.2/18

Left In: 2.500+/-0.000 χ^2/NDF : 239992121486.6/17

Left: 2.491+/-0.000 χ^2/NDF : 485861454975.0/37

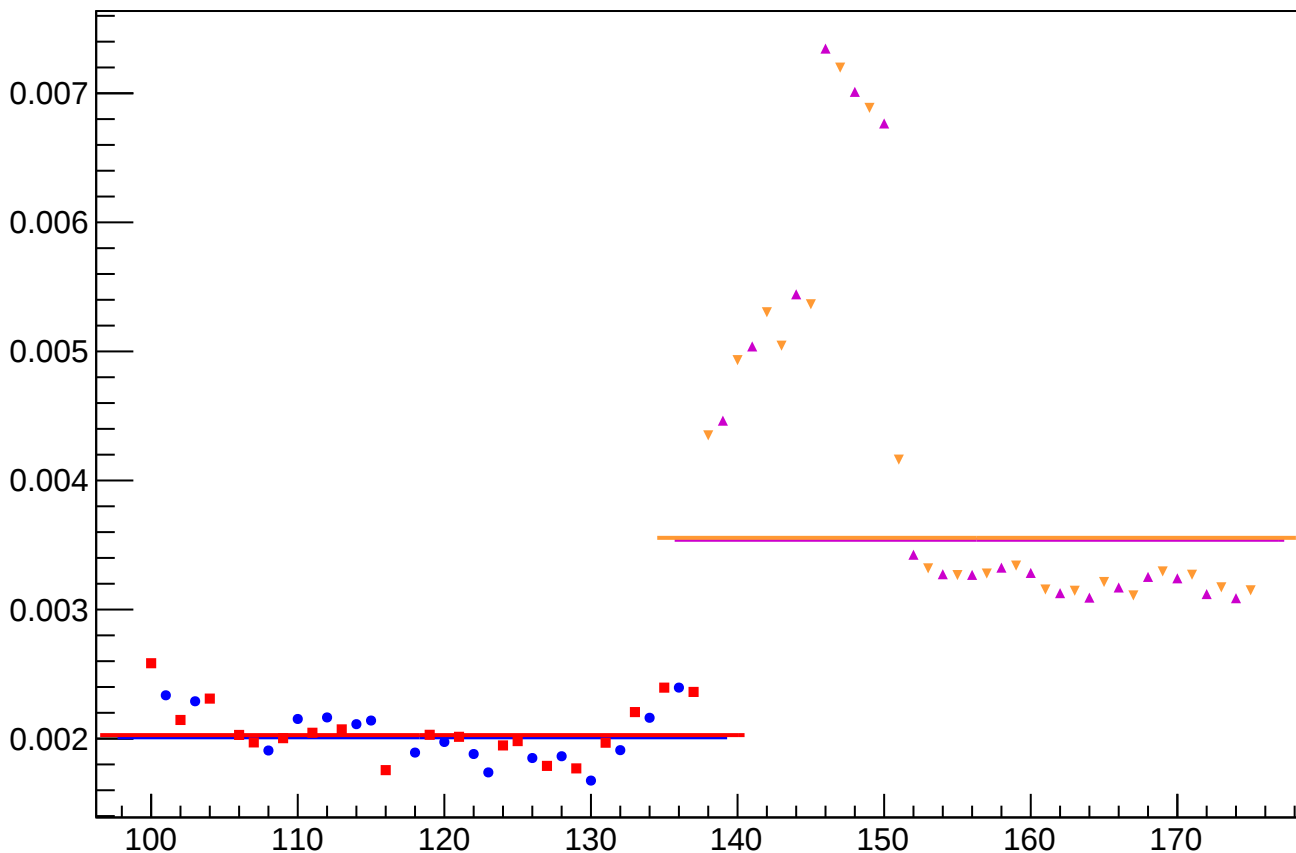
Right: 1.428+/-0.000 χ^2/NDF : 346560852941.7/35

In: 1.837+/-0.000 χ^2/NDF : 1117130170917.3/34

Out: 1.861+/-0.000 χ^2/NDF : 1105761402455.1/38

All: 1.850+/-0.000 χ^2/NDF : 2223628115863.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2/NDF : 152530.4/16

Left Out: 0.004 $\pm$ 0.000 χ^2/NDF :1350189.7/19

Right Out: 0.002 $\pm$ 0.000 χ^2/NDF : 103926.2/18

Left In: 0.004 $\pm$ 0.000 χ^2/NDF :1531806.2/17

Left: 0.004 $\pm$ 0.000 χ^2/NDF : 2882226.2/37

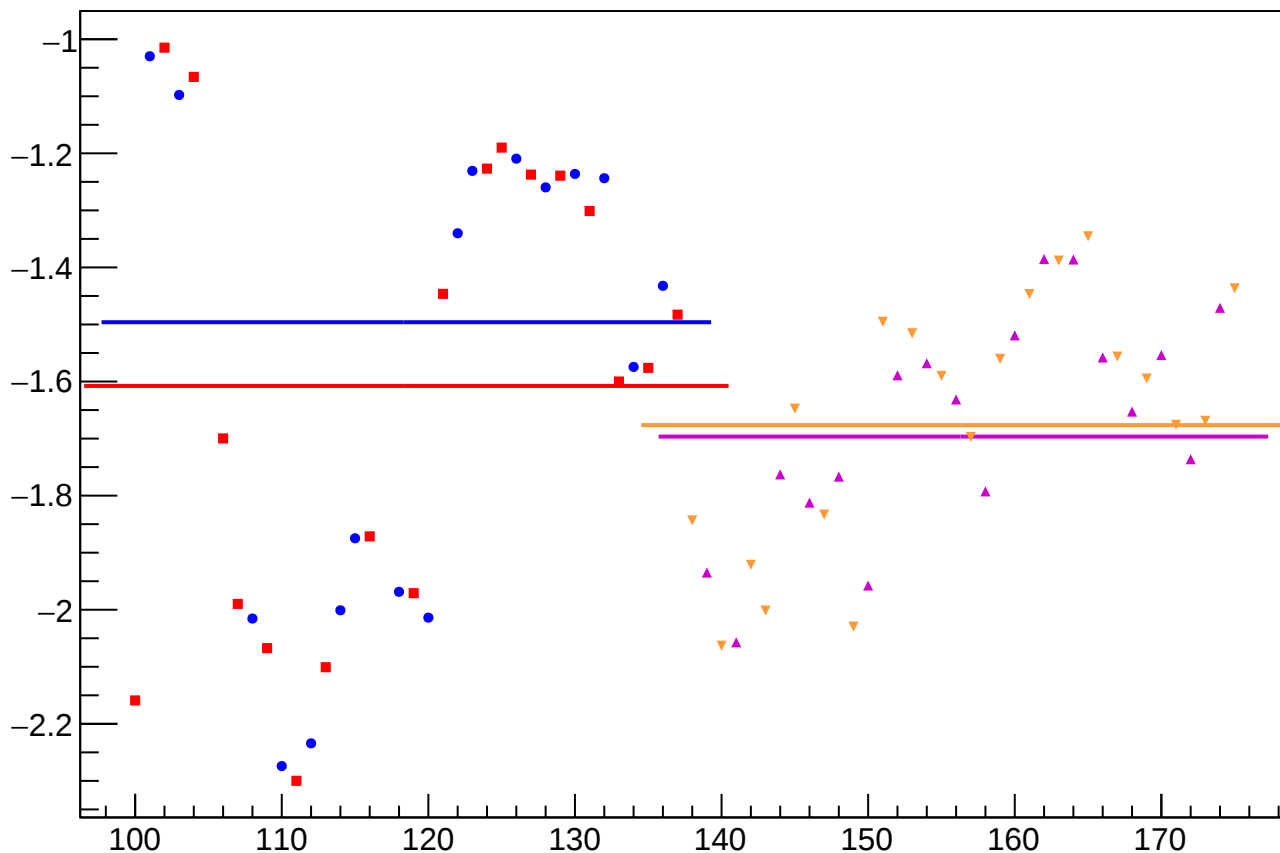
Right: 0.002 $\pm$ 0.000 χ^2/NDF : 256903.9/35

In: 0.003 $\pm$ 0.000 χ^2/NDF :4478349.7/34

Out: 0.003 $\pm$ 0.000 χ^2/NDF :4418410.2/38

All: 0.003 $\pm$ 0.000 χ^2/NDF : 8899661.9/73

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22525130000.3/16

Left Out: -1.676+/-0.000 χ^2/NDF : 16900357640.1/19

Right Out: -1.608+/-0.000 χ^2/NDF : 27836461057.4/18

Left In: -1.697+/-0.000 χ^2/NDF : 12219288349.3/17

Left: -1.686+/-0.000 χ^2/NDF : 29191293602.8/37

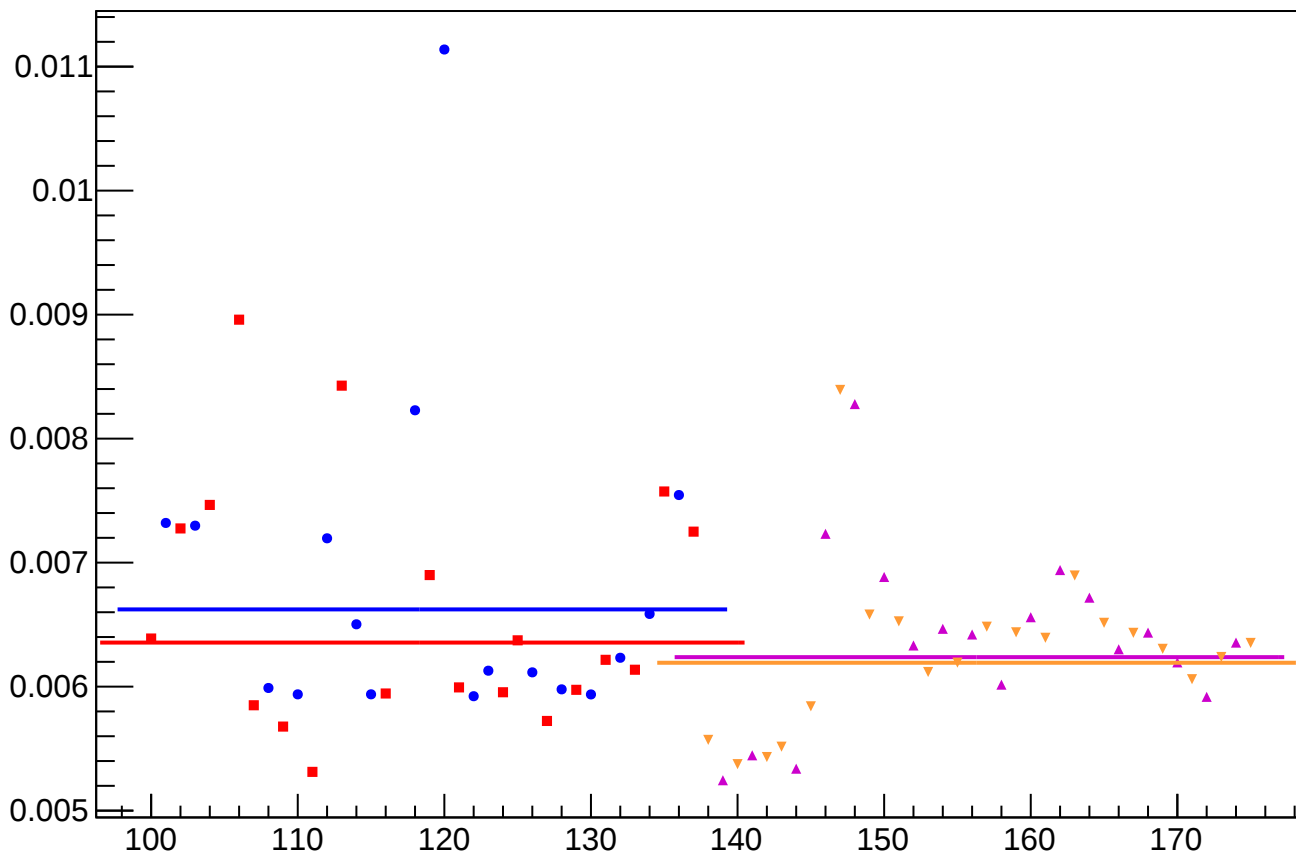
Right: -1.556+/-0.000 χ^2/NDF : 51297044912.1/35

In: -1.638+/-0.000 χ^2/NDF : 38693407888.6/34

Out: -1.655+/-0.000 χ^2/NDF : 45270647114.0/38

All: -1.647+/-0.000 χ^2/NDF : 84040653679.9/100

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 232630.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :228286.6/19

Right Out: 0.006+/-0.000 χ^2/NDF : 227861.1/18

Left In: 0.006+/-0.000 χ^2/NDF :293070.7/17

Left: 0.006+/-0.000 χ^2/NDF : 522078.8/37

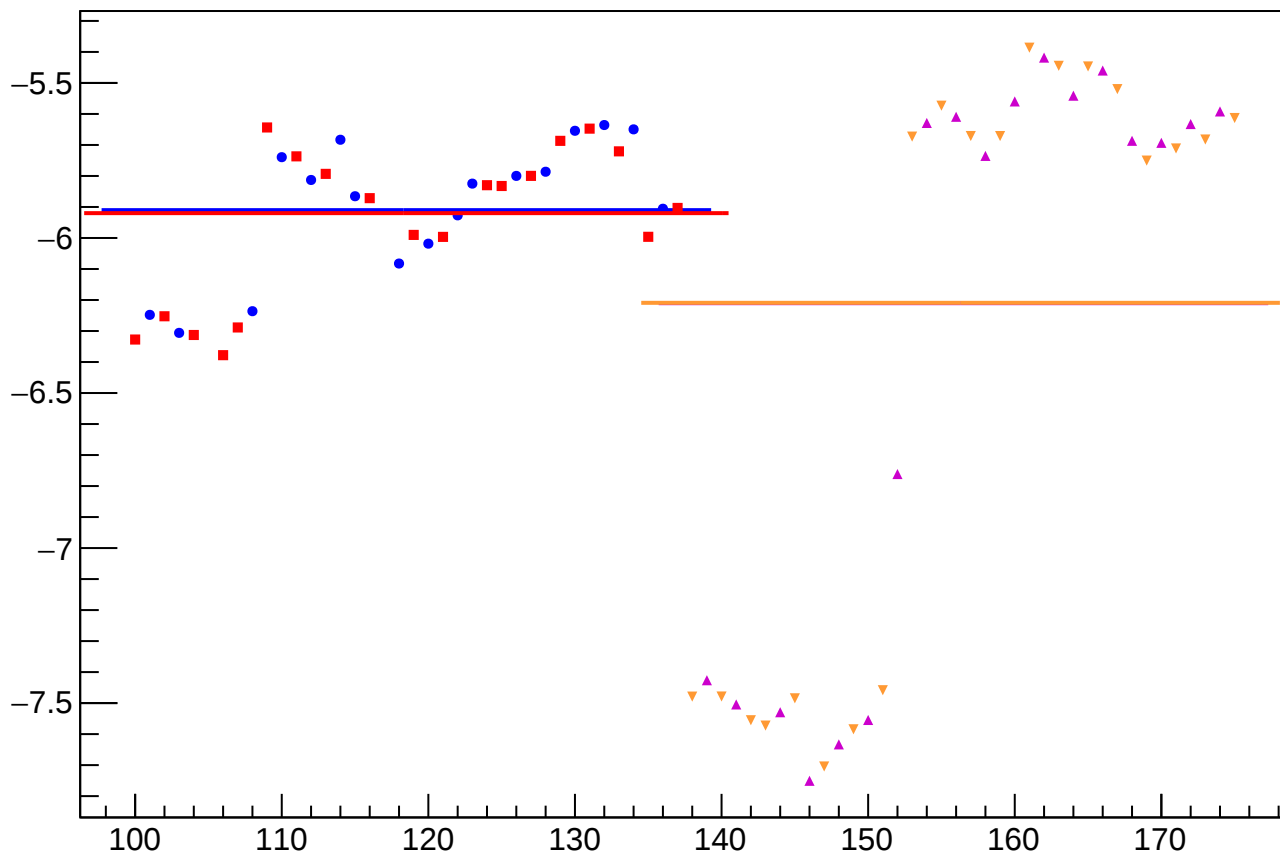
Right: 0.006+/-0.000 χ^2/NDF : 471227.9/35

In: 0.006+/-0.000 χ^2/NDF :554834.9/34

Out: 0.006+/-0.000 χ^2/NDF :462150.6/38

All: 0.006+/-0.000 χ^2/NDF : 1022852.6/73

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11154434512.7/16

Left Out: -6.209+/-0.000 χ^2/NDF : 176670646822.2/19

Right Out: -5.920+/-0.000 χ^2/NDF : 12785618366.8/18

Left In: -6.210+/-0.000 χ^2/NDF : 150152911557.4/17

Left: -6.210+/-0.000 χ^2/NDF : 326823701570.2/37

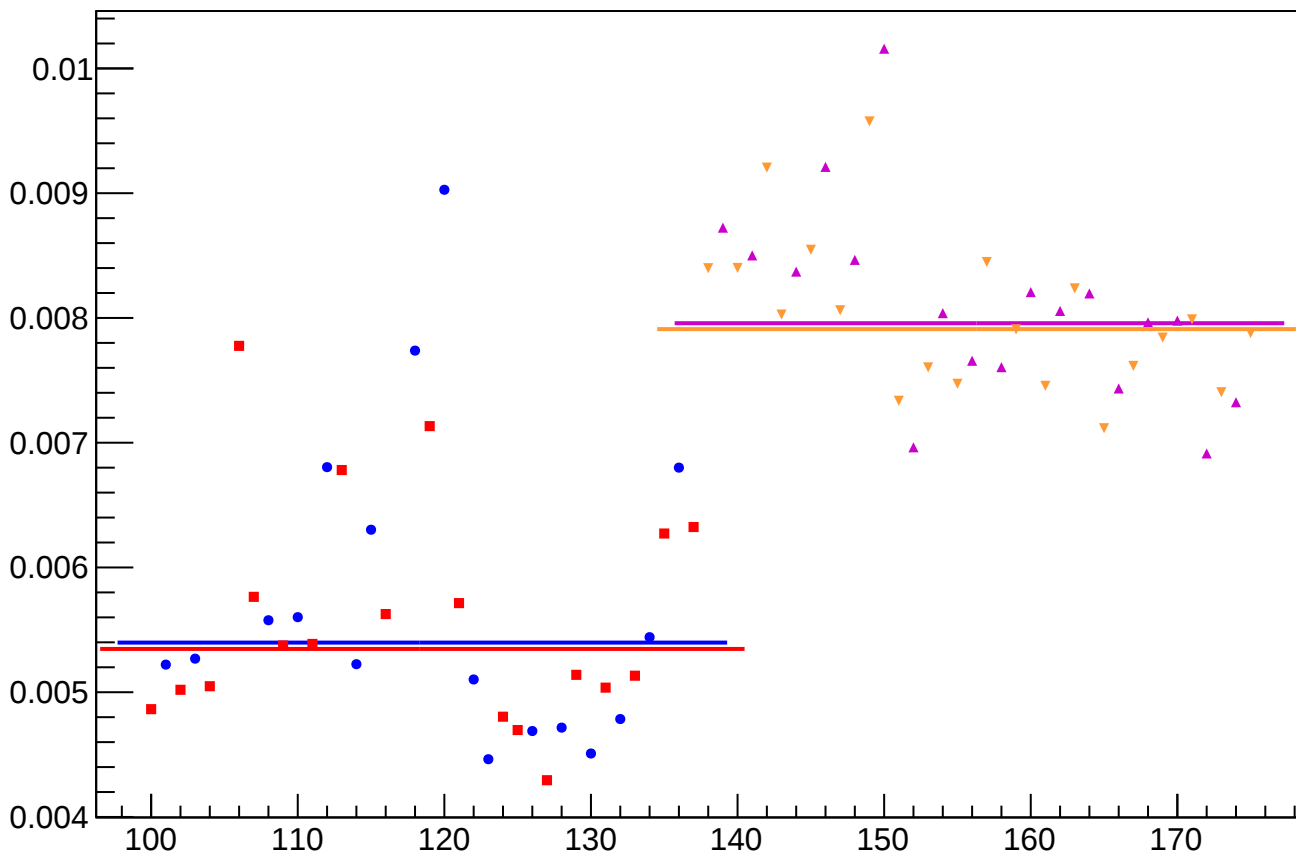
Right: -5.915+/-0.000 χ^2/NDF : 23950013841.5/35

In: -6.059+/-0.000 χ^2/NDF : 170337653083.5/34

Out: -6.062+/-0.000 χ^2/NDF : 198593467922.6/38

All: -6.060+/-0.000 χ^2/NDF : 368933196934.1

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 371347.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :123149.1/19

Right Out: 0.005+/-0.000 χ^2/NDF : 249377.5/18

Left In: 0.008+/-0.000 χ^2/NDF :201127.0/17

Left: 0.008+/-0.000 χ^2/NDF : 324740.3/37

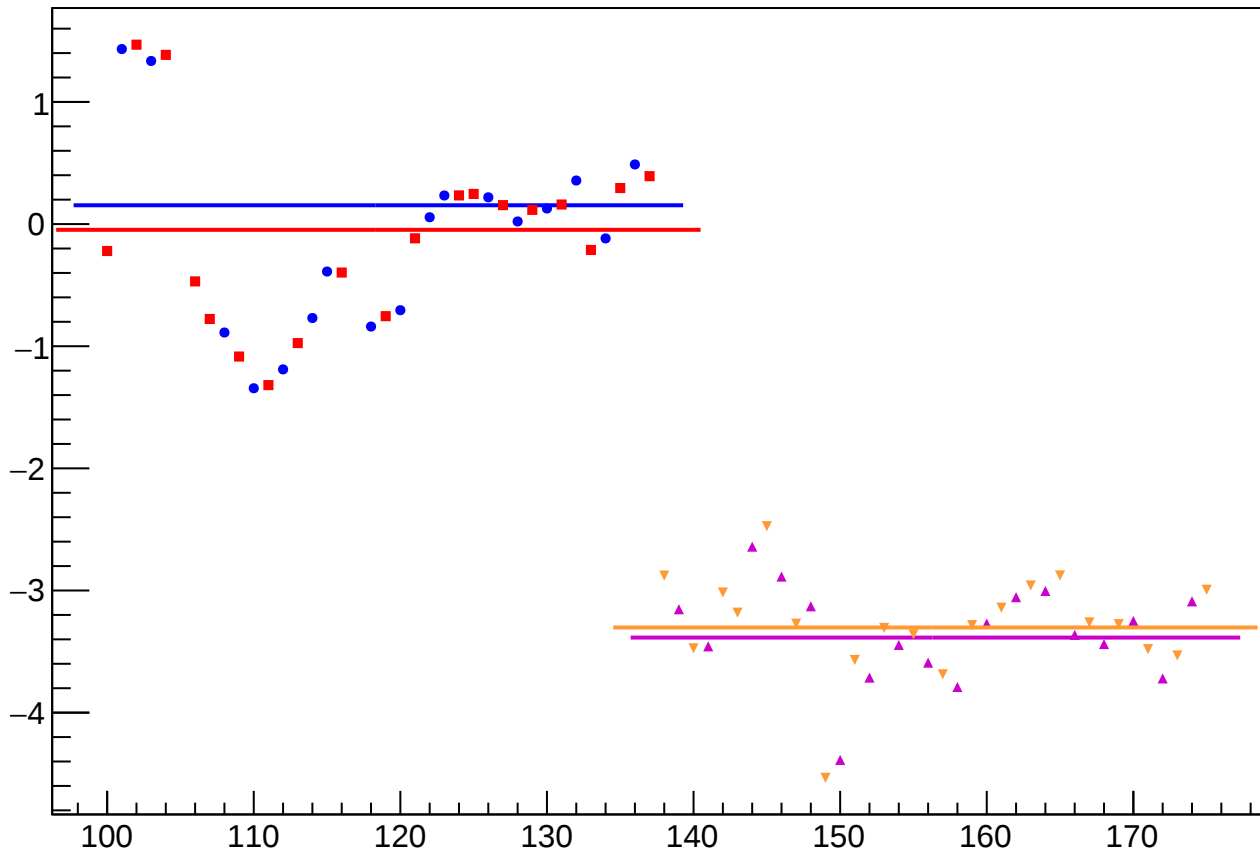
Right: 0.005+/-0.000 χ^2/NDF : 621271.5/35

In: 0.007+/-0.000 χ^2/NDF :1887000.4/34

Out: 0.007+/-0.000 χ^2/NDF :1808089.0/38

All: 0.007+/-0.000 χ^2/NDF : 3696567.4/73

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 16988256953.8/16

Left Out: -3.303+/-0.000 χ^2/NDF : 8557978219.7/19

Right Out: -0.047+/-0.000 χ^2/NDF : 21211430471.1/18

Left In: -3.385+/-0.000 χ^2/NDF : 7615494533.6/17

Left: -3.342+/-0.000 χ^2/NDF : 16363679986.4/37

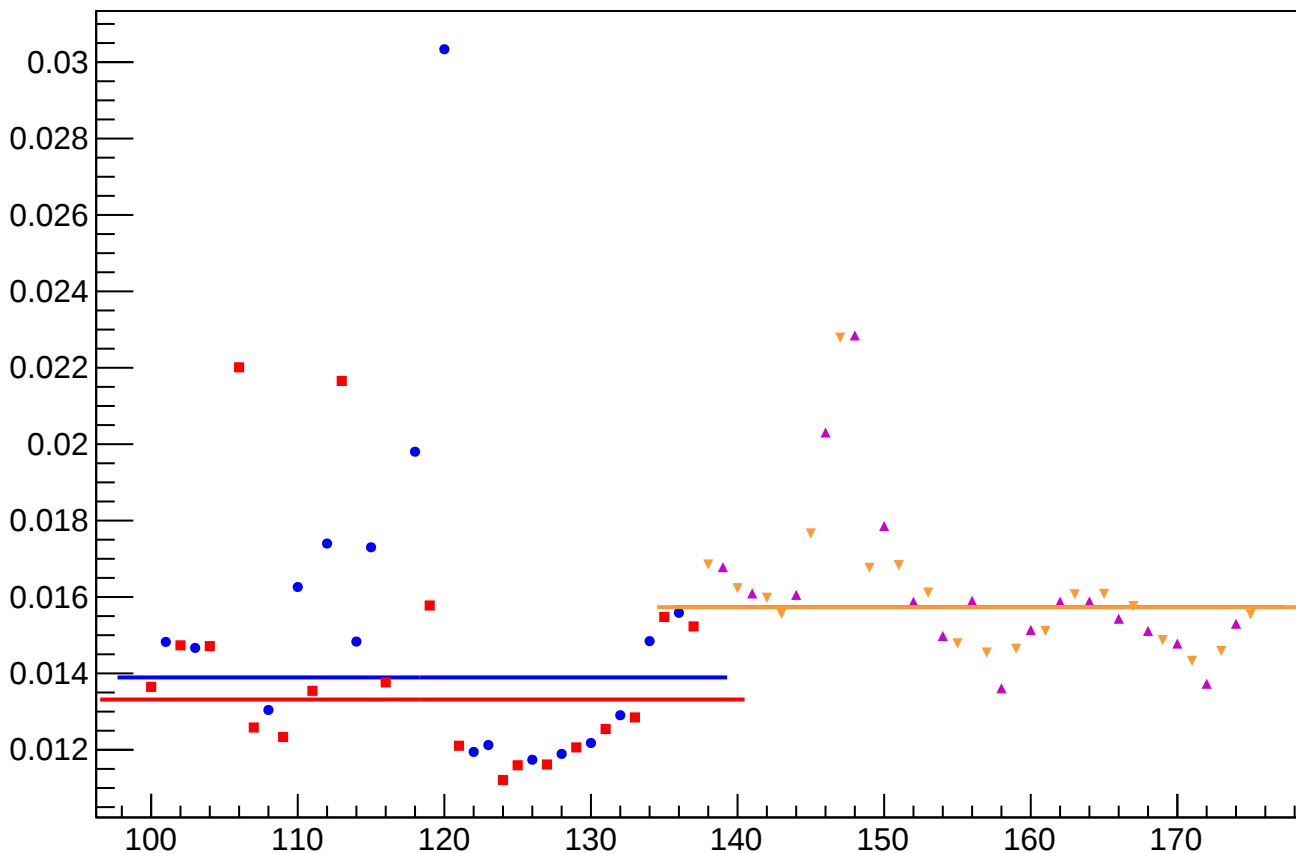
Right: 0.045+/-0.000 χ^2/NDF : 38872167594.9/35

In: -2.094+/-0.000 χ^2/NDF : 268690602740.9/34

Out: -2.047+/-0.000 χ^2/NDF : 266916681335.1/38

All: -2.069+/-0.000 χ^2/NDF : 535708571223.4

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 400569.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :231670.8/19

Right Out: 0.013+/-0.000 χ^2/NDF : 291358.0/18

Left In: 0.016+/-0.000 χ^2/NDF :328007.7/17

Left: 0.016+/-0.000 χ^2/NDF : 559678.7/37

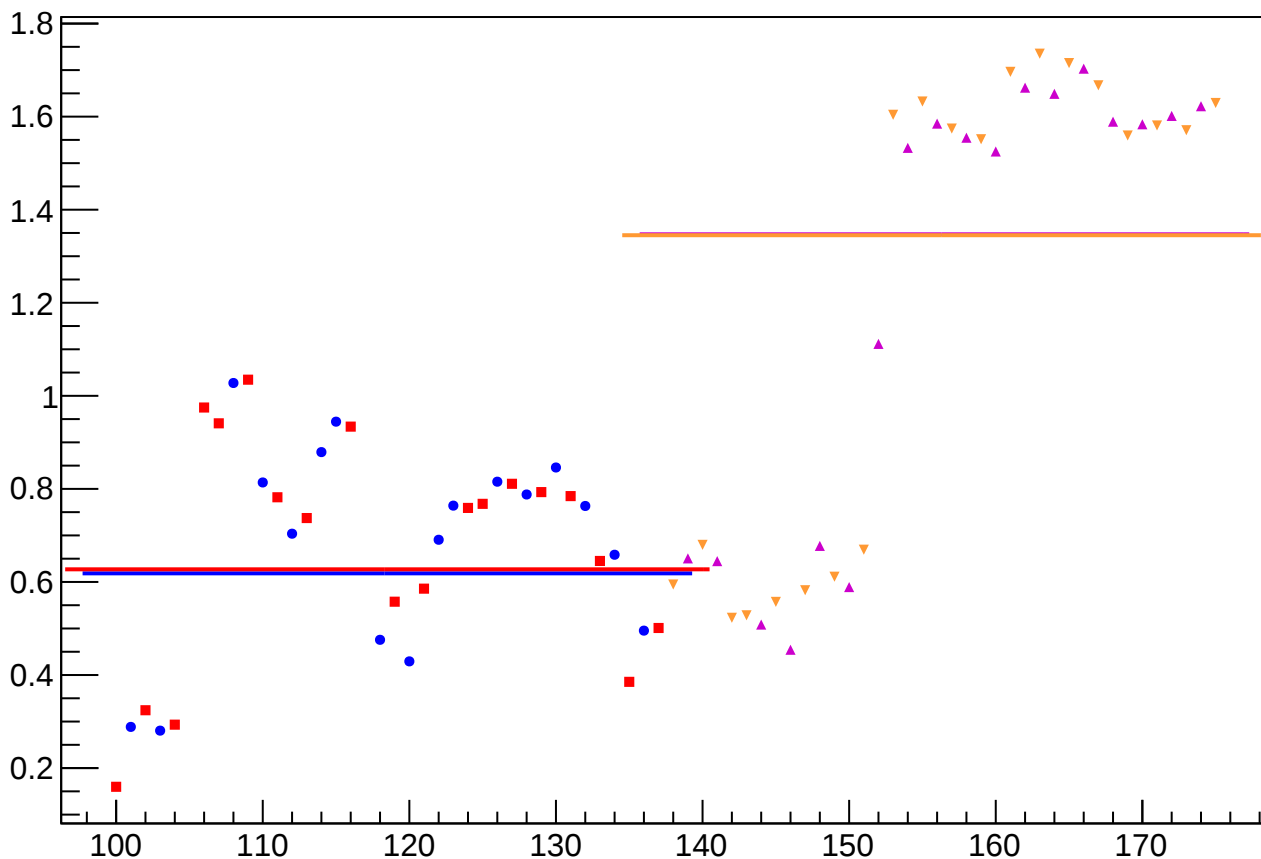
Right: 0.014+/-0.000 χ^2/NDF : 703029.7/35

In: 0.015+/-0.000 χ^2/NDF :860868.8/34

Out: 0.015+/-0.000 χ^2/NDF :784589.2/38

All: 0.015+/-0.000 χ^2/NDF : 1651603.2/73

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.619+/-0.000 χ^2/NDF : 5416939288.1/16

Left Out: 1.345+/-0.000 χ^2/NDF : 72004675203.6/19

Right Out: 0.627+/-0.000 χ^2/NDF : 6337935219.4/18

Left In: 1.347+/-0.000 χ^2/NDF : 61889654860.8/17

Left: 1.346+/-0.000 χ^2/NDF : 133895032504.8/37

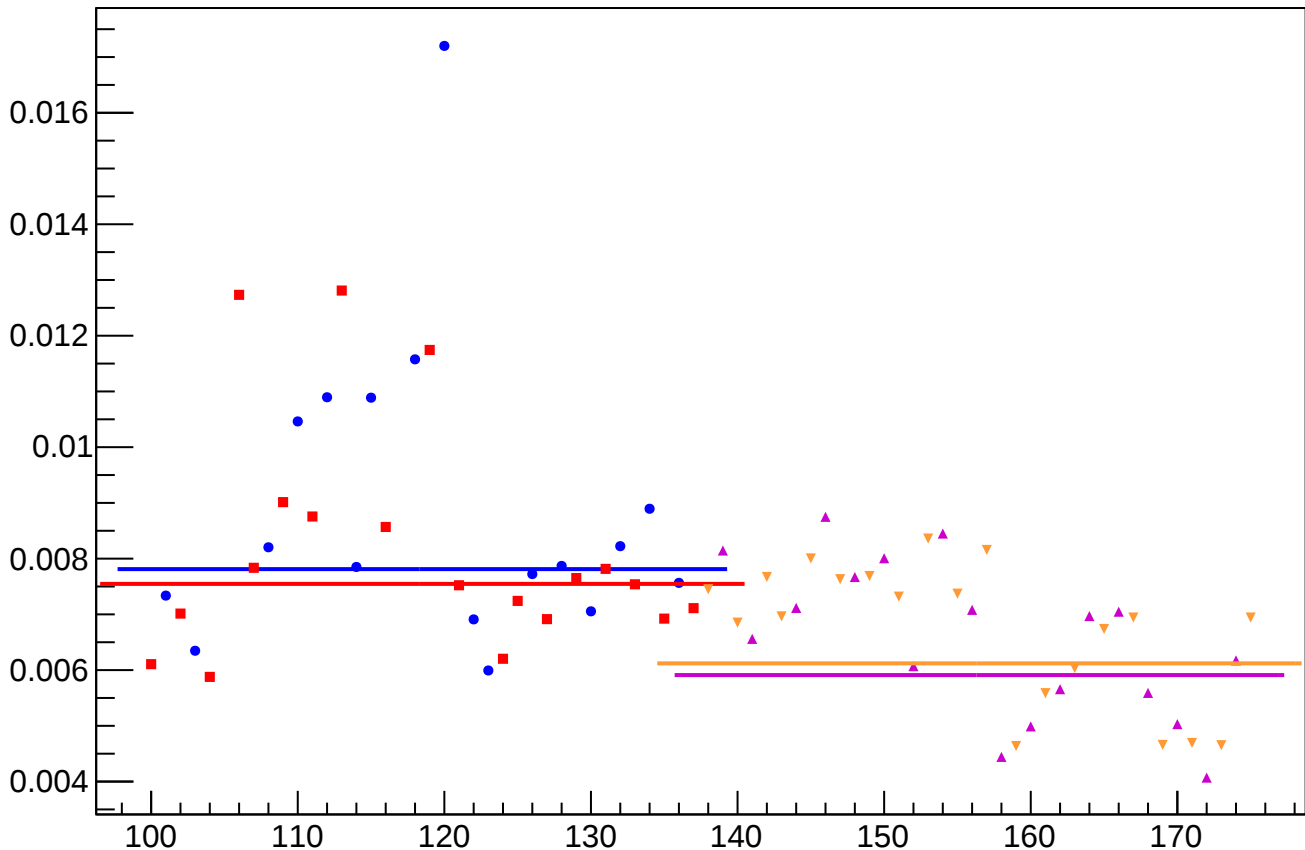
Right: 0.623+/-0.000 χ^2/NDF : 11758668415.9/35

In: 1.194+/-0.000 χ^2/NDF : 107273792783.8/34

Out: 1.177+/-0.000 χ^2/NDF : 121298243318.6/38

All: 1.186+/-0.000 χ^2/NDF : 228633433982.8

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 466827.3/16

Left Out: 0.006+/-0.000 χ^2/NDF :1242480.4/19

Right Out: 0.008+/-0.000 χ^2/NDF : 441823.4/18

Left In: 0.006+/-0.000 χ^2/NDF :1296143.0/17

Left: 0.006+/-0.000 χ^2/NDF : 2554367.5/37

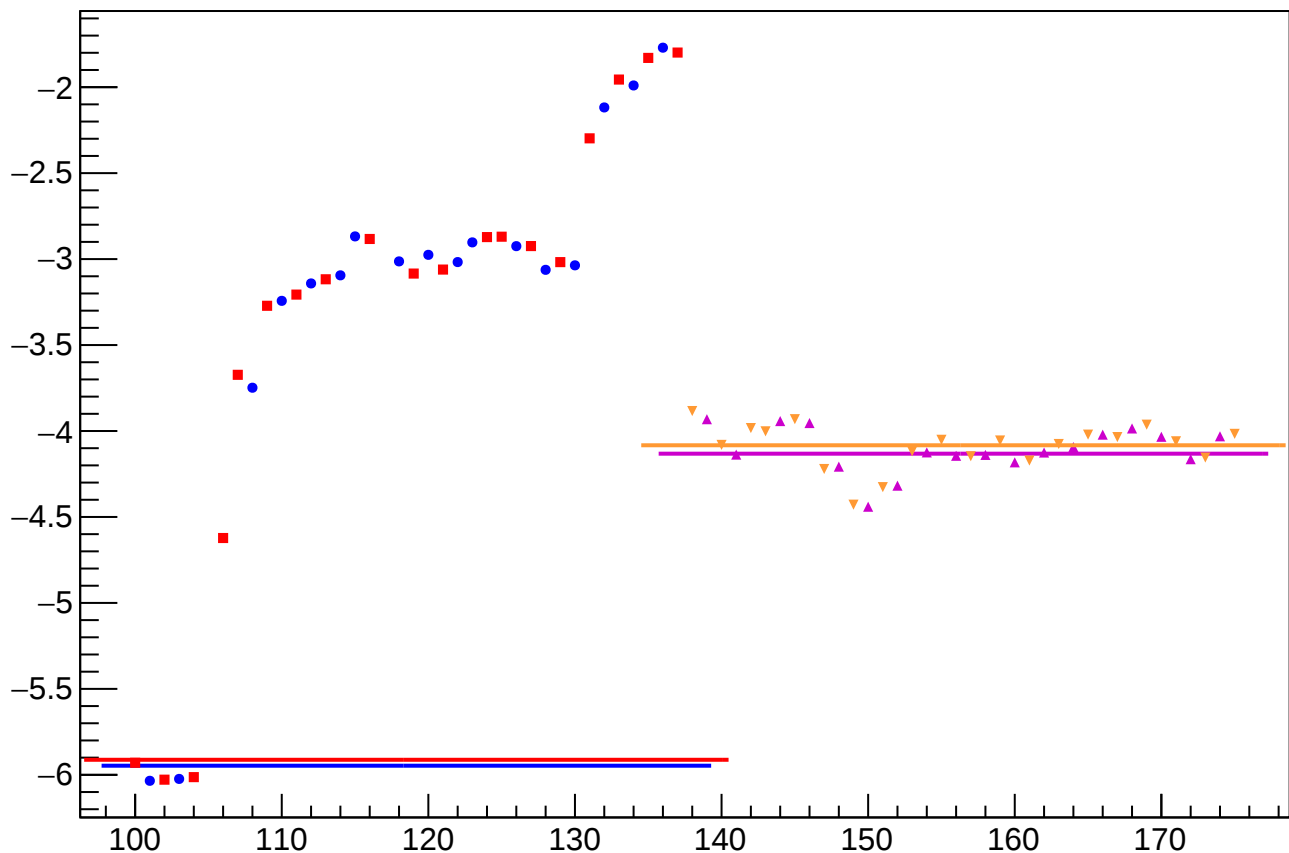
Right: 0.008+/-0.000 χ^2/NDF : 915777.7/35

In: 0.006+/-0.000 χ^2/NDF :2307086.7/34

Out: 0.006+/-0.000 χ^2/NDF :2023286.3/38

All: 0.006+/-0.000 χ^2/NDF : 4339764.6/73

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13165963559.5/16

Left Out: -4.083+/-0.000 χ^2/NDF : 34945262.1/19

Right Out: -5.912+/-0.000 χ^2/NDF : 14619971495.0/18

Left In: -4.132+/-0.000 χ^2/NDF : 25767140.2/17

Left: -4.108+/-0.000 χ^2/NDF : 63227931.9/37

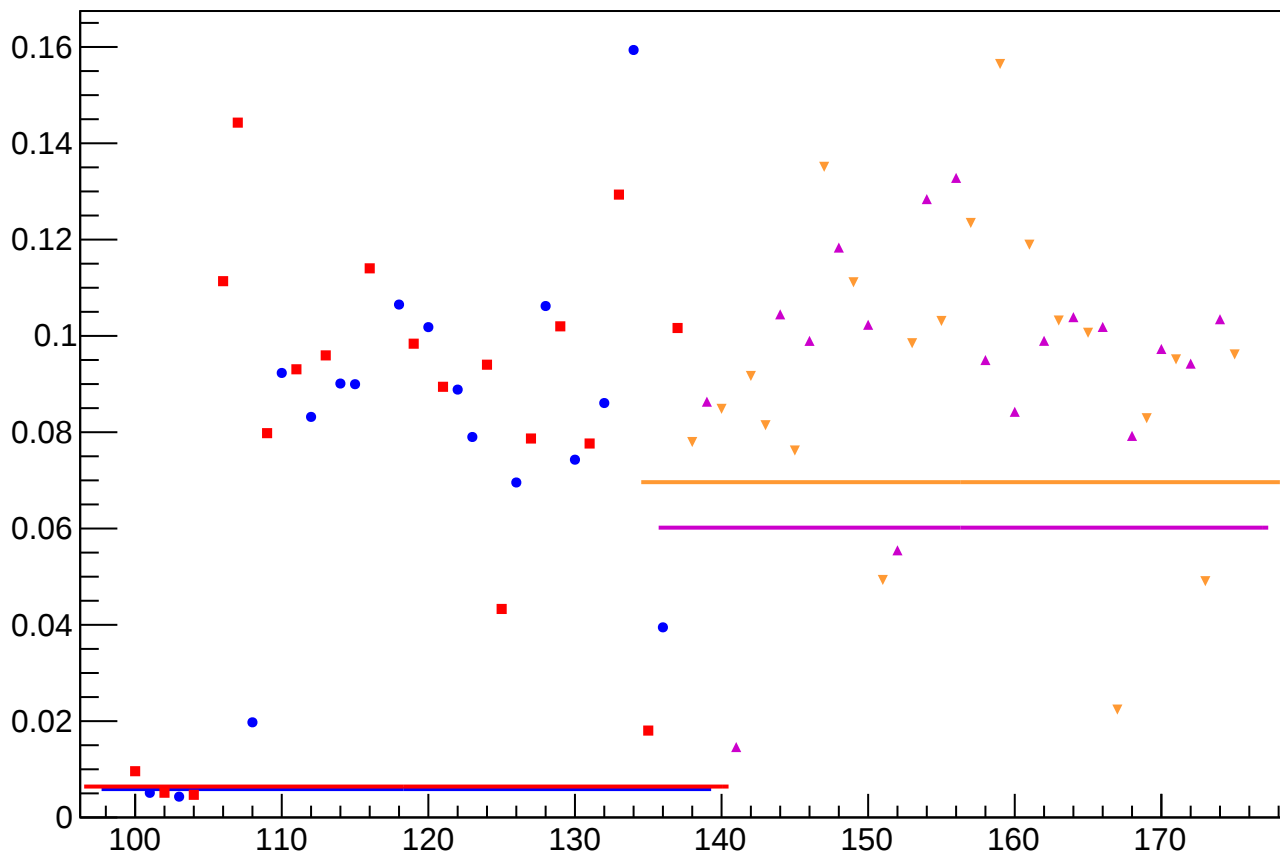
Right: -5.932+/-0.000 χ^2/NDF : 27811040884.1/35

In: -5.869+/-0.000 χ^2/NDF : 19894840223.8/34

Out: -5.818+/-0.000 χ^2/NDF : 21243605129.2/38

All: -5.846+/-0.000 χ^2/NDF : 41195924843.3/79

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7934545.2/16

Left Out: 0.070+/-0.000 χ^2/NDF : 4831663.7/19

Right Out: 0.006+/-0.000 χ^2/NDF : 8498586.9/18

Left In: 0.060+/-0.000 χ^2/NDF : 7151458.0/17

Left: 0.065+/-0.000 χ^2/NDF : 12170652.3/37

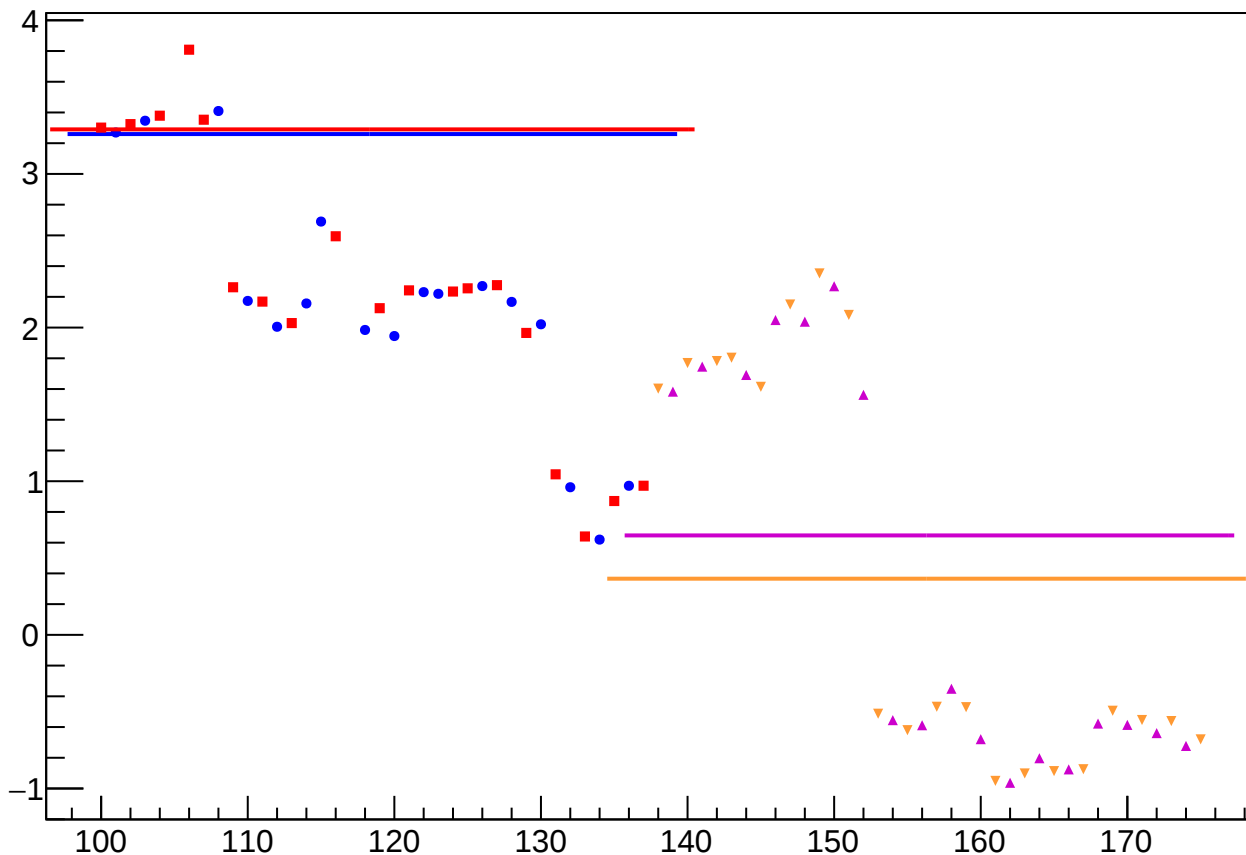
Right: 0.006+/-0.000 χ^2/NDF : 16444798.1/35

In: 0.008+/-0.000 χ^2/NDF : 27080992.0/34

Out: 0.010+/-0.000 χ^2/NDF : 29062771.5/38

All: 0.009+/-0.000 χ^2/NDF : 56237681.4/73

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.259 $\pm$ 0.000 χ^2 /NDF: 2921931976.8/16

Left Out: 0.366 $\pm$ 0.000 χ^2 /NDF: 2931966112.4/19

Right Out: 3.290 $\pm$ 0.000 χ^2 /NDF: 3262231575.5/18

Left In: 0.647 $\pm$ 0.000 χ^2 /NDF: 2272266087.3/17

Left: 0.496 $\pm$ 0.000 χ^2 /NDF: 5268763407.7/37

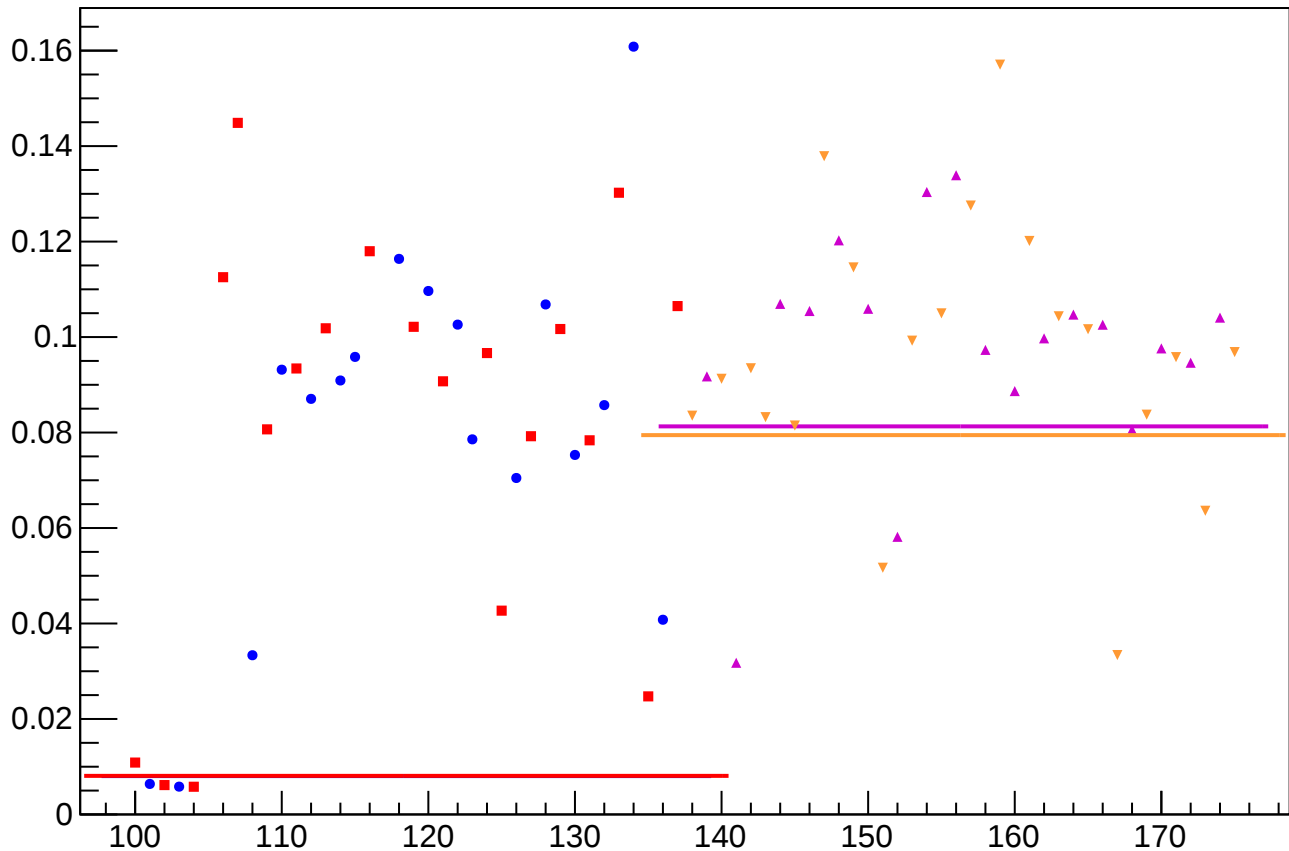
Right: 3.274 $\pm$ 0.000 χ^2 /NDF: 6196998308.4/35

In: 3.129 $\pm$ 0.000 χ^2 /NDF: 15005702247.9/34

Out: 3.108 $\pm$ 0.000 χ^2 /NDF: 20305717250.4/38

All: 3.119 $\pm$ 0.000 χ^2 /NDF: 35317980514.4/77

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7742048.1/16

Left Out: 0.079+/-0.000 χ^2/NDF : 3111917.2/19

Right Out: 0.008+/-0.000 χ^2/NDF : 8309426.5/18

Left In: 0.081+/-0.000 χ^2/NDF : 2901503.8/17

Left: 0.080+/-0.000 χ^2/NDF : 6018879.3/37

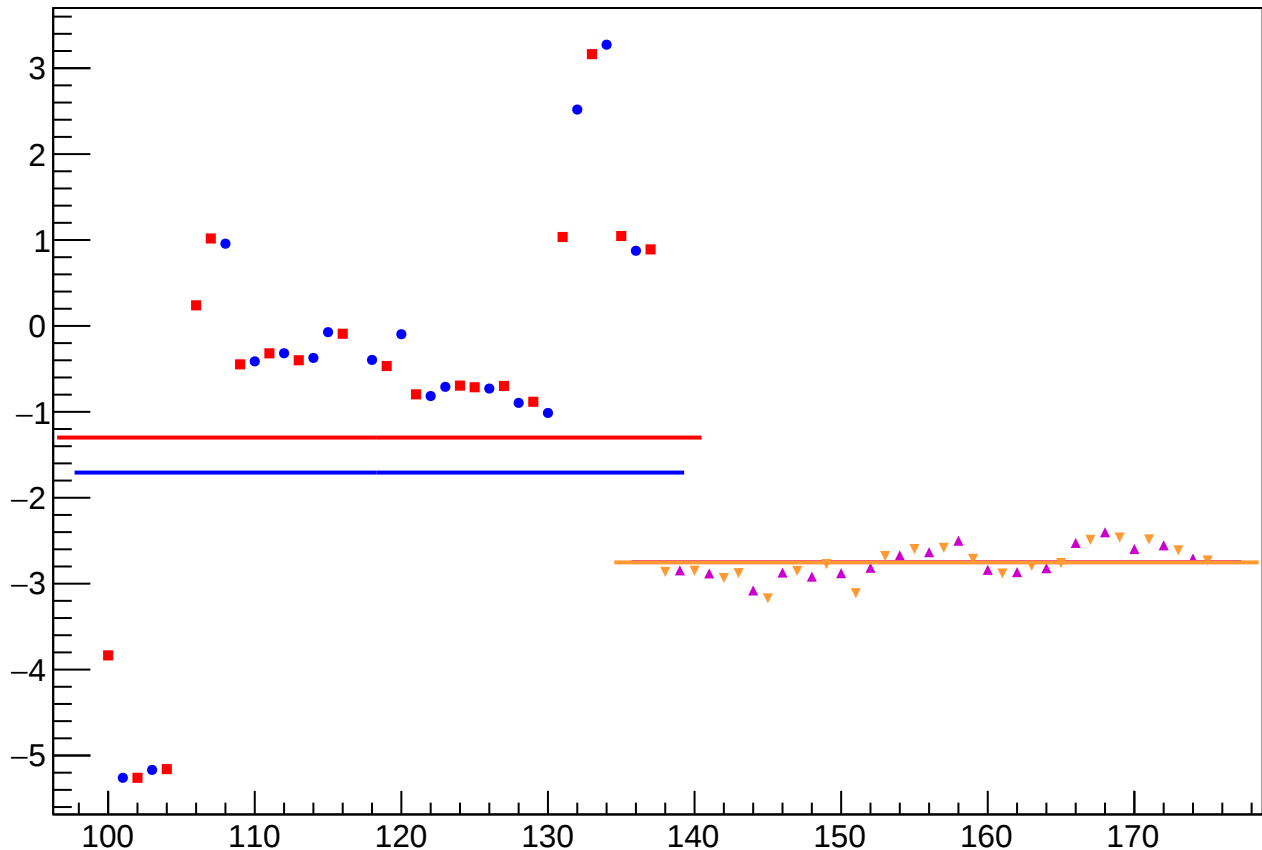
Right: 0.008+/-0.000 χ^2/NDF : 16051528.4/35

In: 0.012+/-0.000 χ^2/NDF : 26073593.5/34

Out: 0.013+/-0.000 χ^2/NDF : 28234047.5/38

All: 0.012+/-0.000 χ^2/NDF : 54327853.1/73

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.707+/-0.000 χ^2/NDF : 166125579390.4/16

Left Out: -2.752+/-0.000 χ^2/NDF : 8643912050.1/19

Right Out: -1.299+/-0.000 χ^2/NDF : 178036726841.2/18

Left In: -2.748+/-0.000 χ^2/NDF : 7036402071.8/17

Left: -2.750+/-0.000 χ^2/NDF : 15682095289.7/37

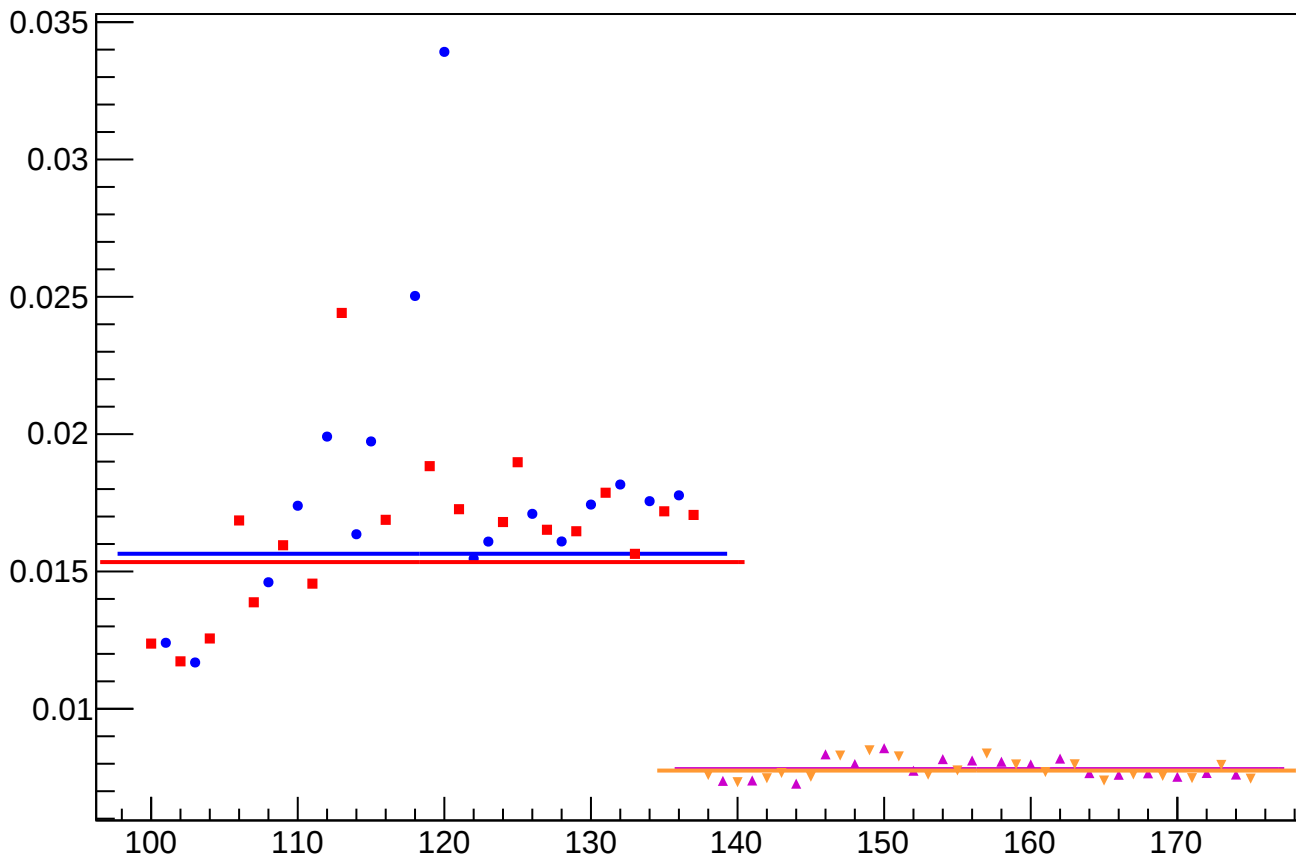
Right: -1.489+/-0.000 χ^2/NDF : 346196986988.8/35

In: -2.650+/-0.000 χ^2/NDF : 195654415598.9/34

Out: -2.608+/-0.000 χ^2/NDF : 236767215633.1/38

All: -2.628+/-0.000 χ^2/NDF : 432639899796.7

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 578244.3/16

Left Out: 0.015+/-0.000 χ^2/NDF : 52882.8/19

Right Out: 0.015+/-0.000 χ^2/NDF : 353806.7/18

Left In: 0.008+/-0.000 χ^2/NDF : 55207.4/17

Left: 0.008+/-0.000 χ^2/NDF : 108754.4/37

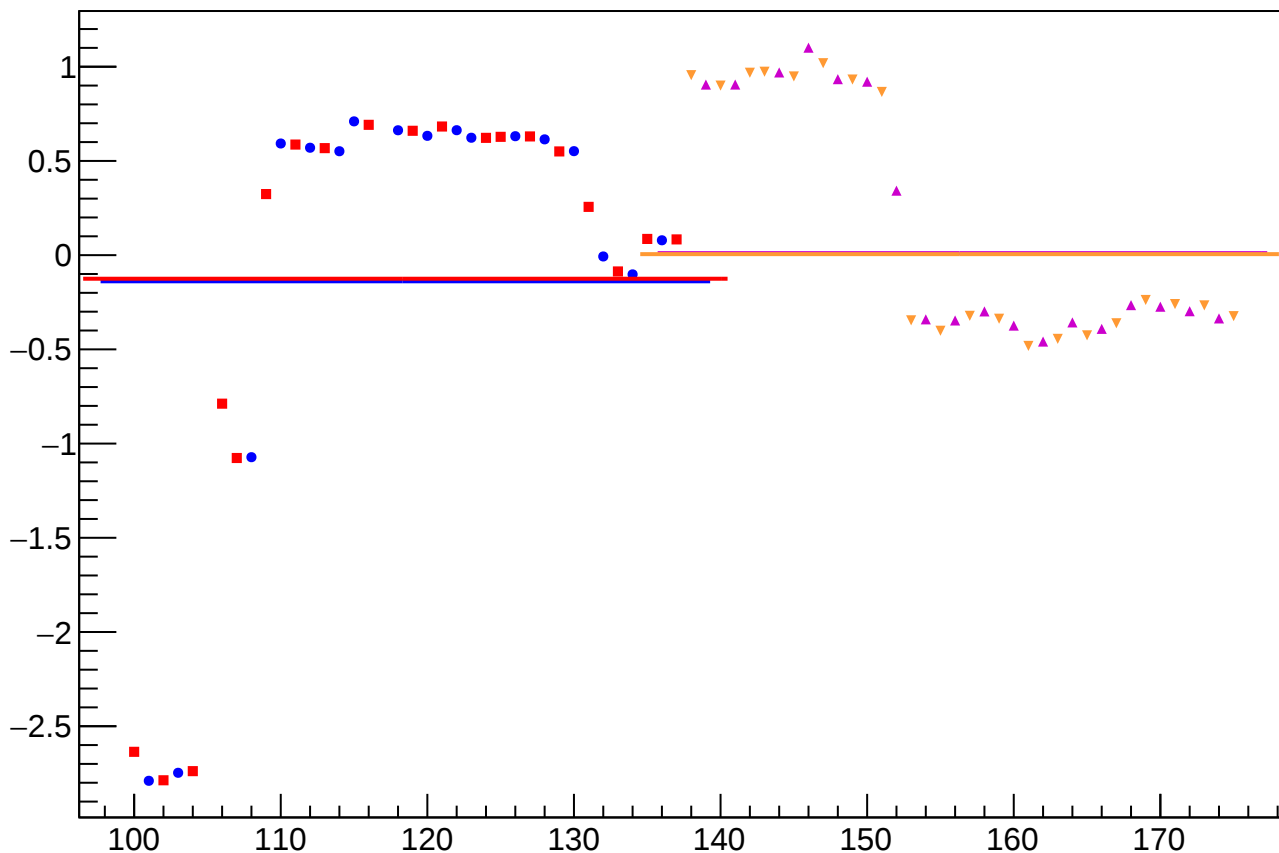
Right: 0.015+/-0.000 χ^2/NDF : 934296.8/35

In: 0.009+/-0.000 χ^2/NDF : 3182651.0/34

Out: 0.009+/-0.000 χ^2/NDF : 3140761.5/38

All: 0.009+/-0.000 χ^2/NDF : 6323882.4/73

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.000 χ^2/NDF : 715049983856.2/16

Left Out: 0.005+/-0.000 χ^2/NDF : 130923601449.9/19

Right Out: -0.125+/-0.000 χ^2/NDF : 761496762534.7/18

Left In: 0.011+/-0.000 χ^2/NDF : 110372962973.2/17

Left: 0.008+/-0.000 χ^2/NDF : 241302079535.4/37

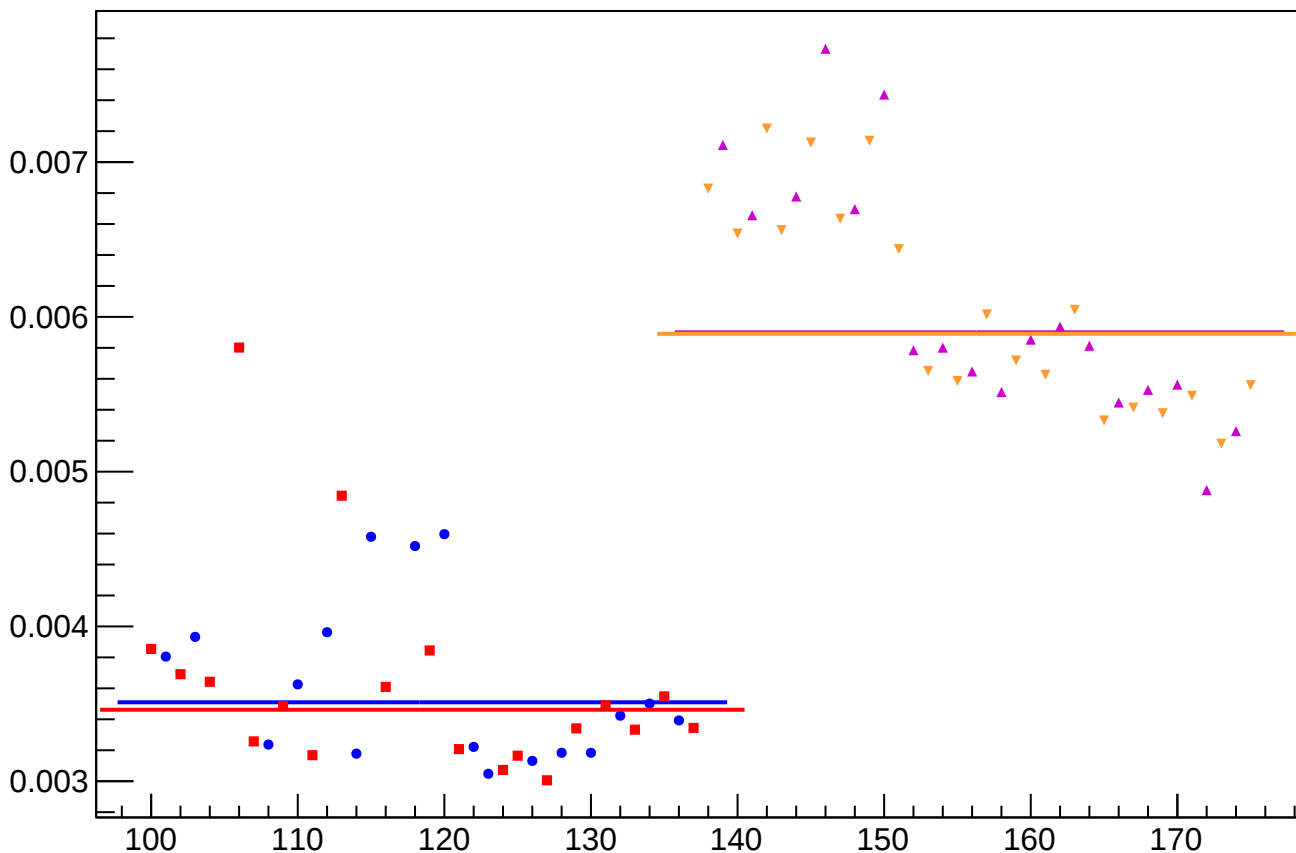
Right: -0.132+/-0.000 χ^2/NDF : 1476596319761.2/3

In: -0.076+/-0.000 χ^2/NDF : 830196412317.9/34

Out: -0.071+/-0.000 χ^2/NDF : 896356031793.9/38

All: -0.074+/-0.000 χ^2/NDF : 1726564341981

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171337.9/16

Left Out: 0.006+/-0.000 χ^2/NDF : 274970.3/19

Right Out: 0.003+/-0.000 χ^2/NDF : 215974.1/18

Left In: 0.006+/-0.000 χ^2/NDF : 351741.9/17

Left: 0.006+/-0.000 χ^2/NDF : 626747.6/37

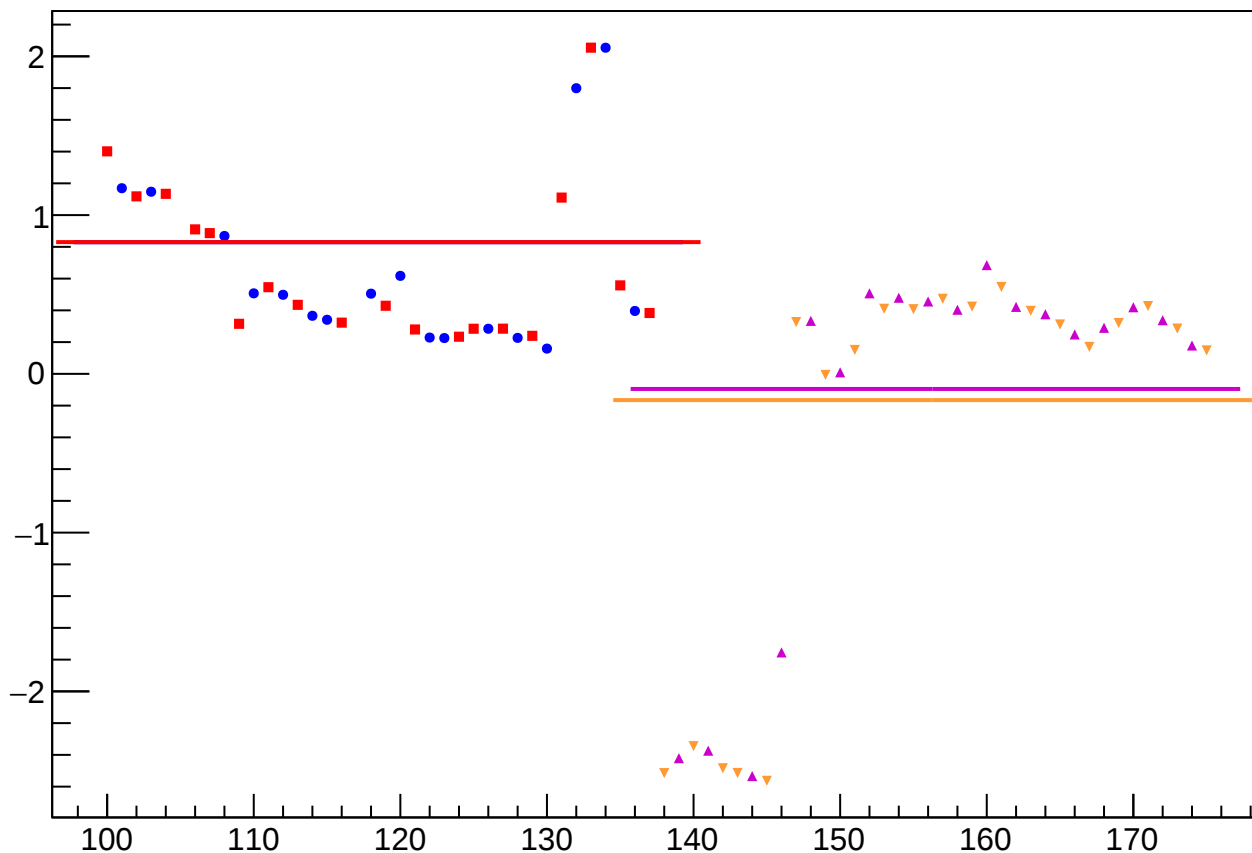
Right: 0.003+/-0.000 χ^2/NDF : 388552.5/35

In: 0.005+/-0.000 χ^2/NDF : 2963302.2/34

Out: 0.004+/-0.000 χ^2/NDF : 3217106.3/38

All: 0.004+/-0.000 χ^2/NDF : 6182103.4/73

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31718573821.2/16

Left Out: -0.165+/-0.000 χ^2/NDF : 478173585636.7/19

Right Out: 0.830+/-0.000 χ^2/NDF : 33335665437.8/18

Left In: -0.095+/-0.000 χ^2/NDF : 406317859402.8/17

Left: -0.131+/-0.000 χ^2/NDF : 885483633100.1/37

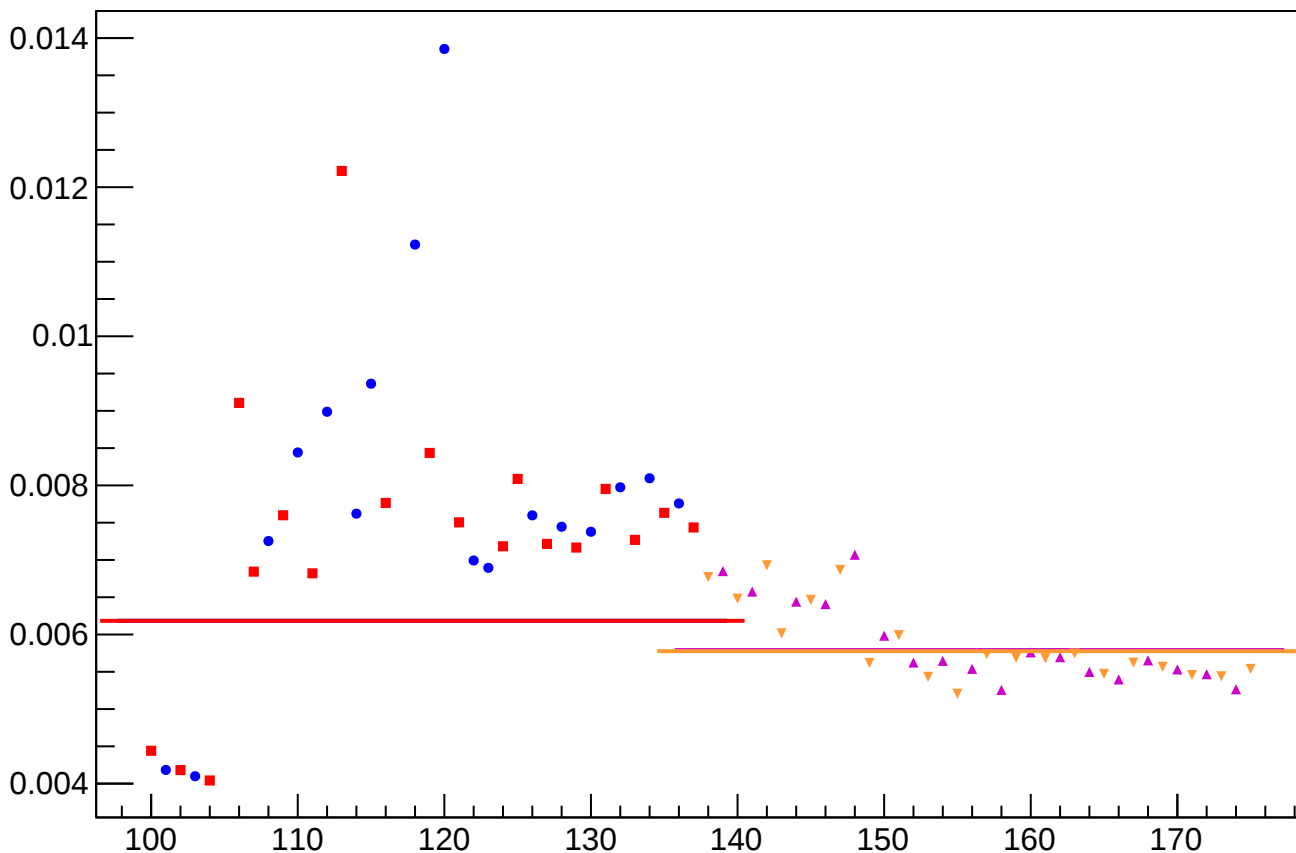
Right: 0.829+/-0.000 χ^2/NDF : 65054312510.0/35

In: 0.148+/-0.000 χ^2/NDF : 525436354814.3/34

Out: 0.100+/-0.000 χ^2/NDF : 621861256567.3/38

All: 0.123+/-0.000 χ^2/NDF : 1147941921218.0

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 :169072.4/19

Right Out: 0.006+/-0.000 χ^2/NDF : 1026836.0/18

Left In: 0.006+/-0.000 χ^2/NDF :187625.2/17

Left: 0.006+/-0.000 χ^2/NDF : 356783.2/37

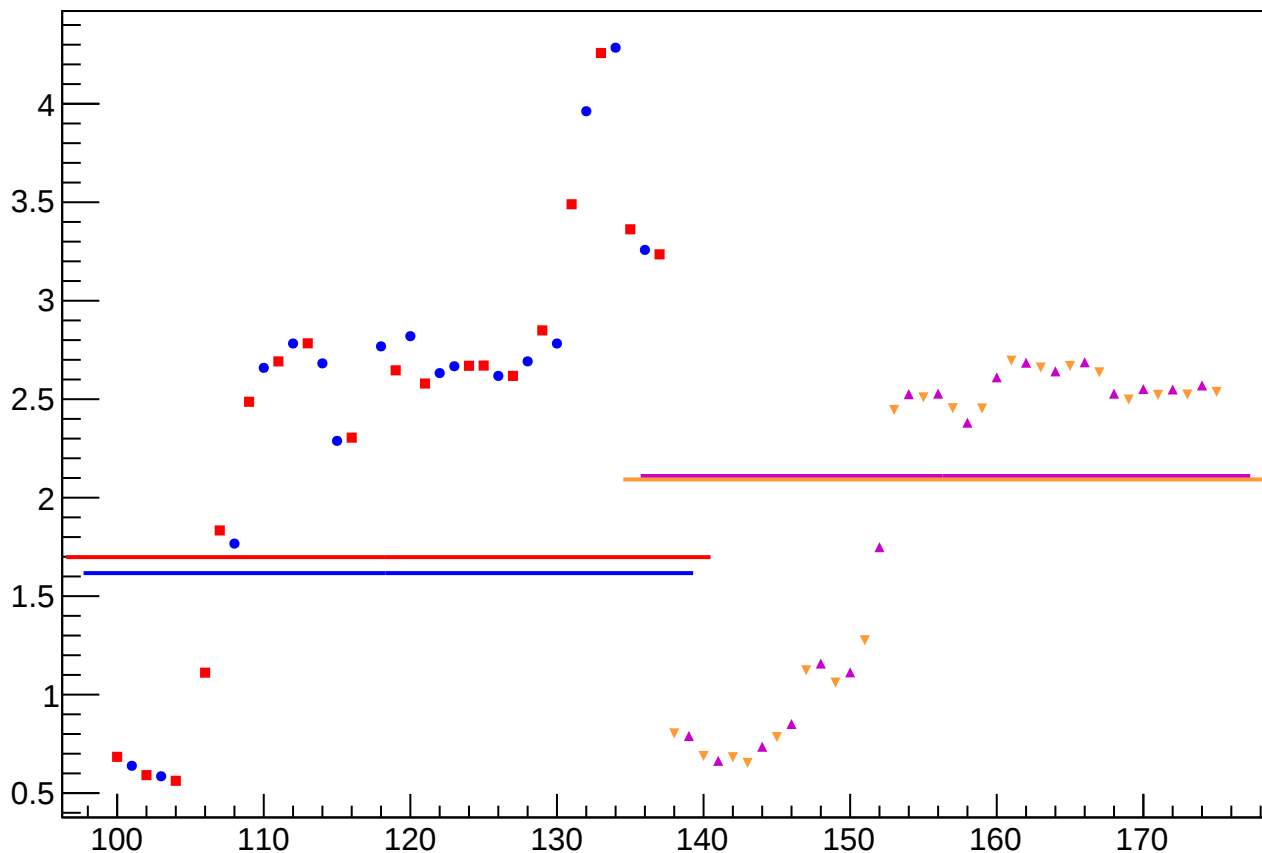
Right: 0.006+/-0.000 χ^2/NDF : 2255798.5/35

In: 0.006+/-0.000 χ^2/NDF :1448299.1/34

Out: 0.006+/-0.000 χ^2/NDF :1232821.3/38

All: 0.006+/-0.000 χ^2/NDF : 2681173.3/73

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.617+/-0.000 χ^2/NDF : 202886791000.7/16

Left Out: 2.093+/-0.000 χ^2/NDF : 272314011003.8/19

Right Out: 1.698+/-0.000 χ^2/NDF : 227408345801.7/18

Left In: 2.110+/-0.000 χ^2/NDF : 236109609912.6/17

Left: 2.101+/-0.000 χ^2/NDF : 508494597574.7/37

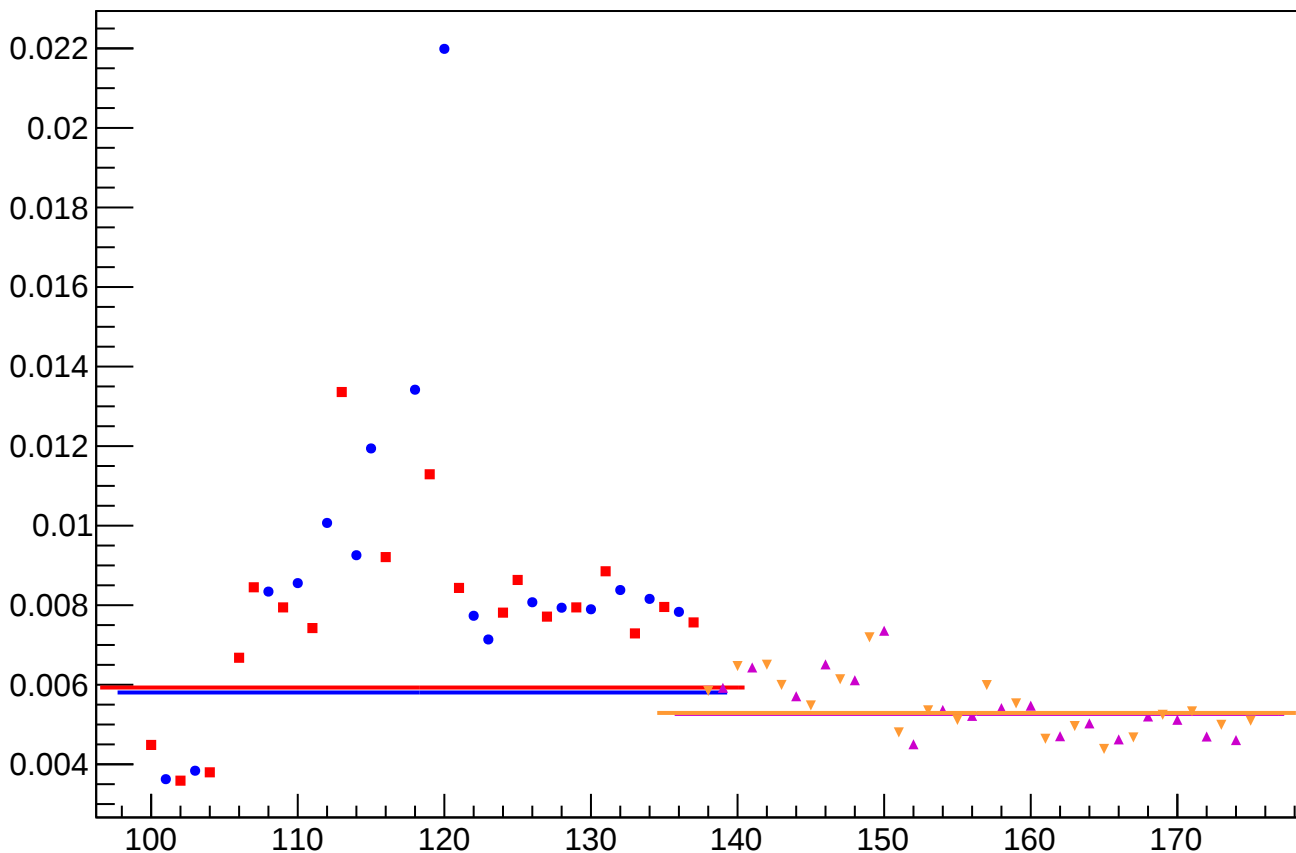
Right: 1.659+/-0.000 χ^2/NDF : 430781224378.3/35

In: 1.991+/-0.000 χ^2/NDF : 465426203746.7/34

Out: 1.997+/-0.000 χ^2/NDF : 517690443021.9/38

All: 1.994+/-0.000 χ^2/NDF : 983127436598.8

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1917989.1/16

Left Out: 0.005+/-0.000 χ^2/NDF : 370033.0/19

Right Out: 0.006+/-0.000 χ^2/NDF : 1685563.6/18

Left In: 0.005+/-0.000 χ^2/NDF : 404262.2/17

Left: 0.005+/-0.000 χ^2/NDF : 774584.5/37

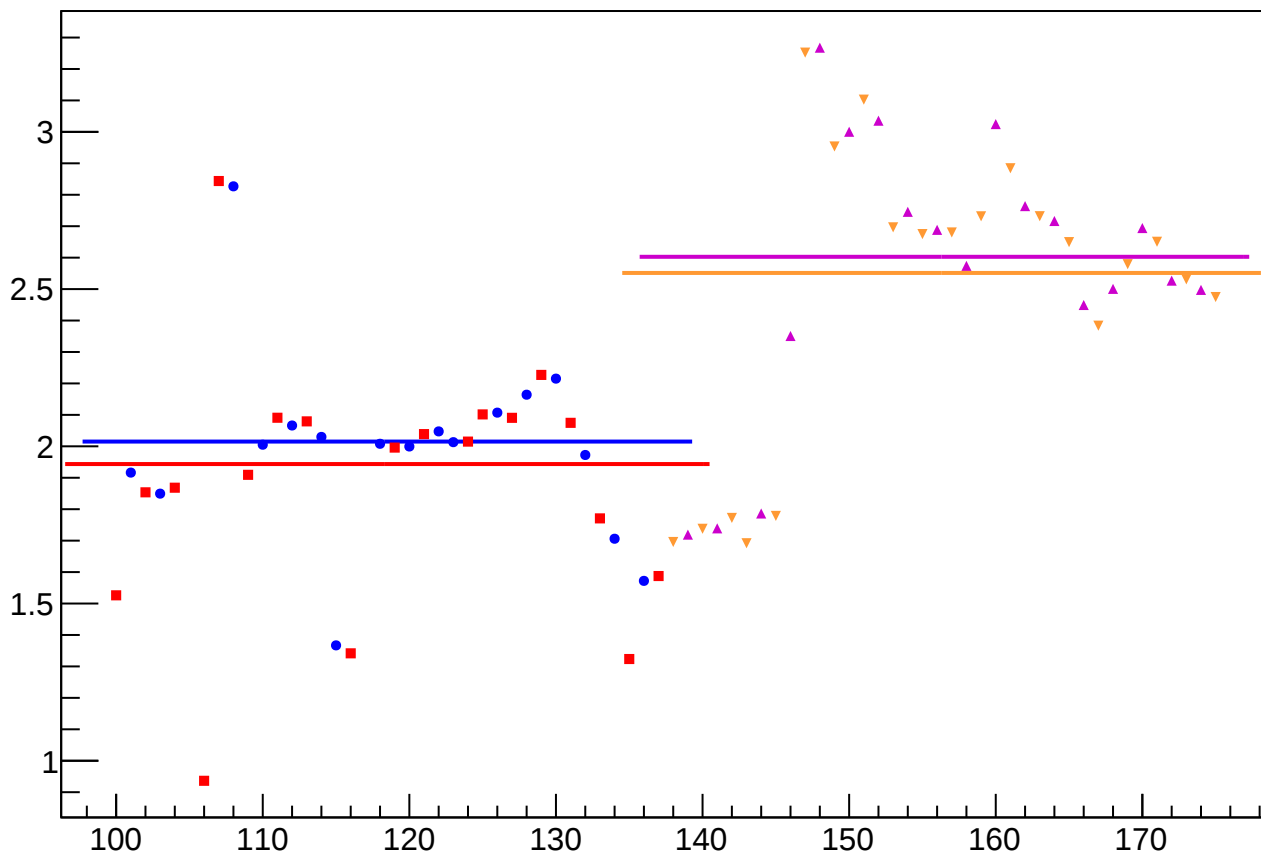
Right: 0.006+/-0.000 χ^2/NDF : 3605853.8/35

In: 0.005+/-0.000 χ^2/NDF : 2385442.1/34

Out: 0.005+/-0.000 χ^2/NDF : 2149916.4/38

All: 0.005+/-0.000 χ^2/NDF : 4536860.7/73

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.015 $\pm$ 0.000 χ^2 /NDF: 12228403202.6/16

Left Out: 2.551 $\pm$ 0.000 χ^2 /NDF: 48816142794.0/19

Right Out: 1.944 $\pm$ 0.000 χ^2 /NDF: 21427099579.0/18

Left In: 2.603 $\pm$ 0.000 χ^2 /NDF: 41490681577.7/17

Left: 2.576 $\pm$ 0.000 χ^2 /NDF: 90642837541.5/37

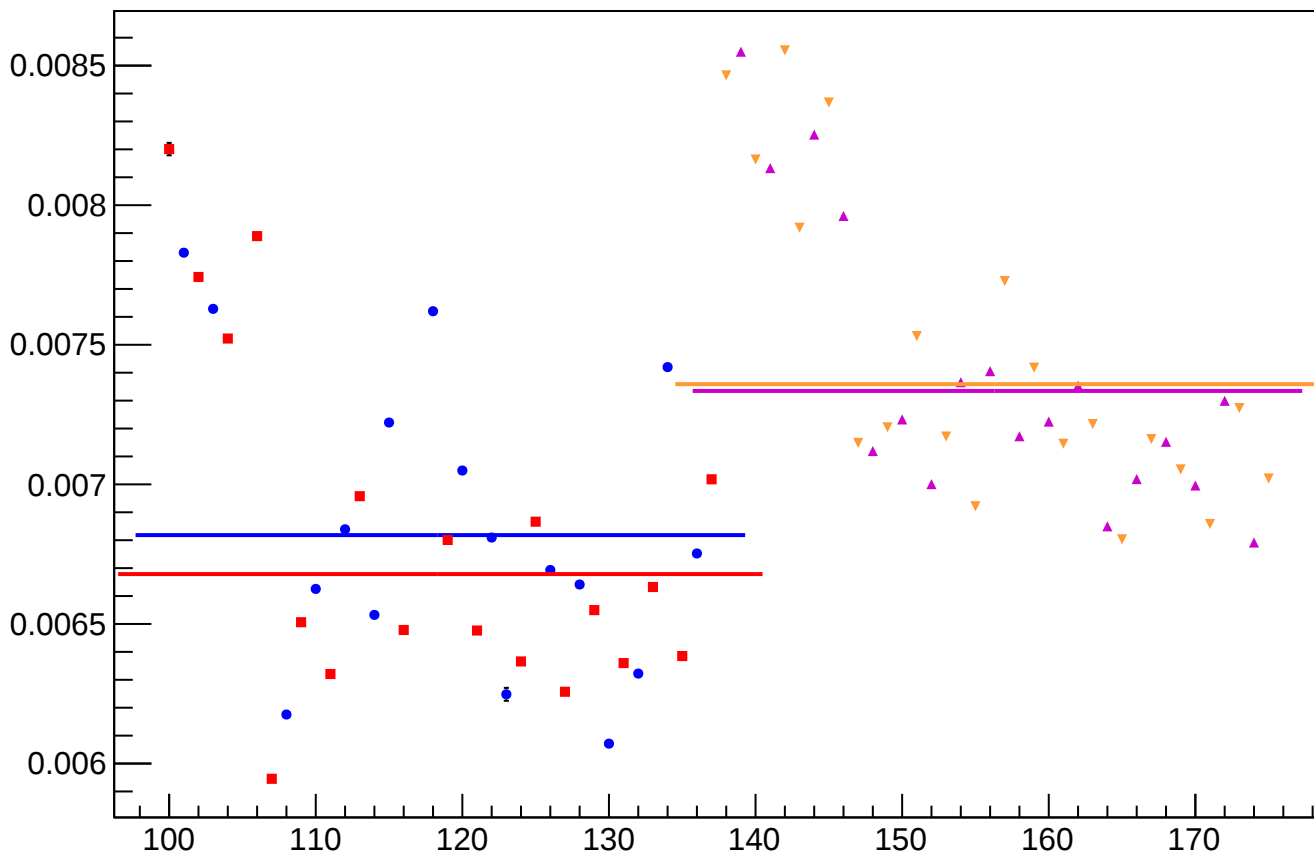
Right: 1.977 $\pm$ 0.000 χ^2 /NDF: 34023853436.2/35

In: 2.393 $\pm$ 0.000 χ^2 /NDF: 84136059555.8/34

Out: 2.328 $\pm$ 0.000 χ^2 /NDF: 105829352789.0/38

All: 2.360 $\pm$ 0.000 χ^2 /NDF: 190808587333.5

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 75813.9/16

Left Out: 0.007+/-0.000 χ^2/NDF :119572.2/19

Right Out: 0.007+/-0.000 χ^2/NDF : 75718.4/18

Left In: 0.007+/-0.000 χ^2/NDF :100427.6/17

Left: 0.007+/-0.000 χ^2/NDF : 220149.6/37

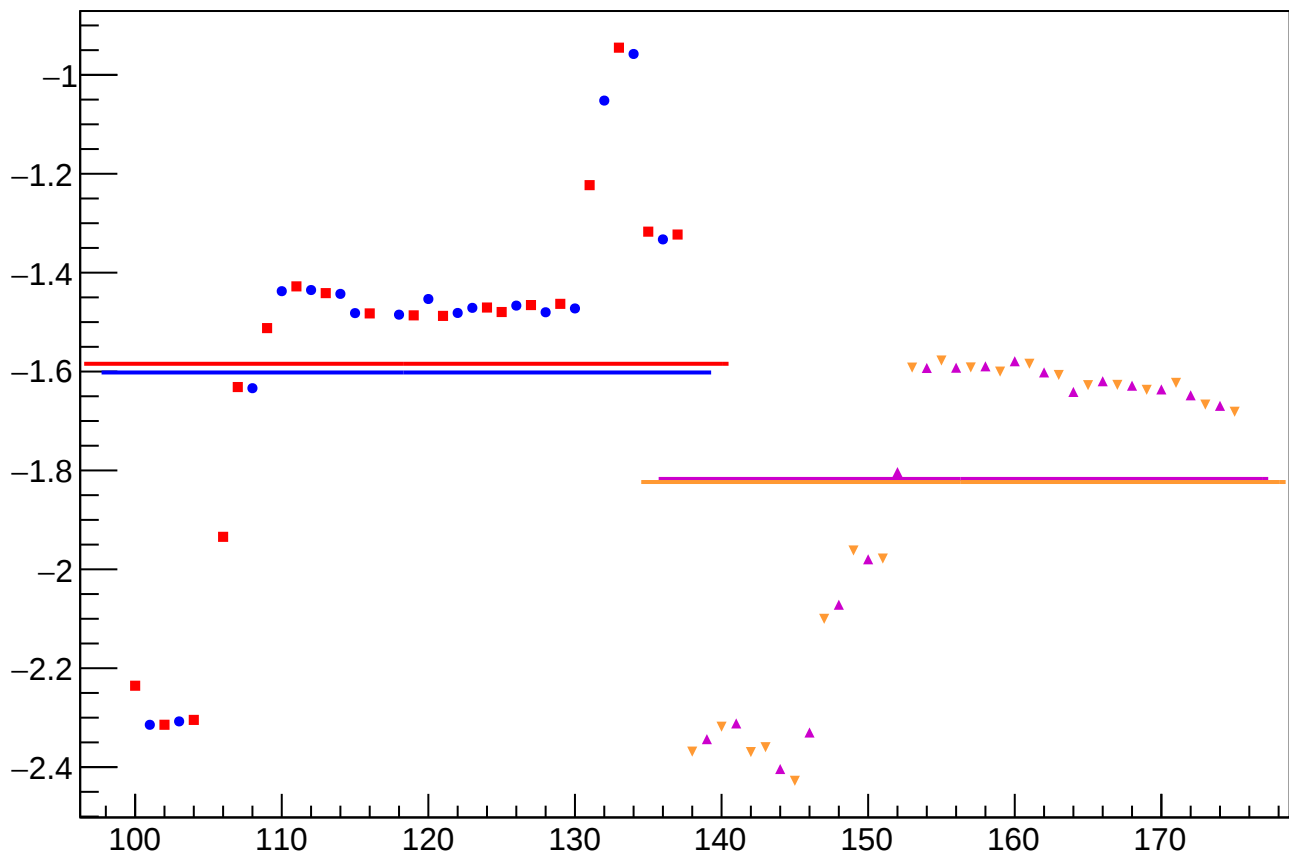
Right: 0.007+/-0.000 χ^2/NDF : 154341.2/35

In: 0.007+/-0.000 χ^2/NDF :223217.7/34

Out: 0.007+/-0.000 χ^2/NDF :284451.7/38

All: 0.007+/-0.000 χ^2/NDF : 508352.0/73

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140200656044.3/16

Left Out: -1.823+/-0.000 χ^2/NDF : 174518709708.5/19

Right Out: -1.584+/-0.000 χ^2/NDF : 143578606614.3/18

Left In: -1.817+/-0.000 χ^2/NDF : 153845642427.6/17

Left: -1.820+/-0.000 χ^2/NDF : 328399095581.7/37

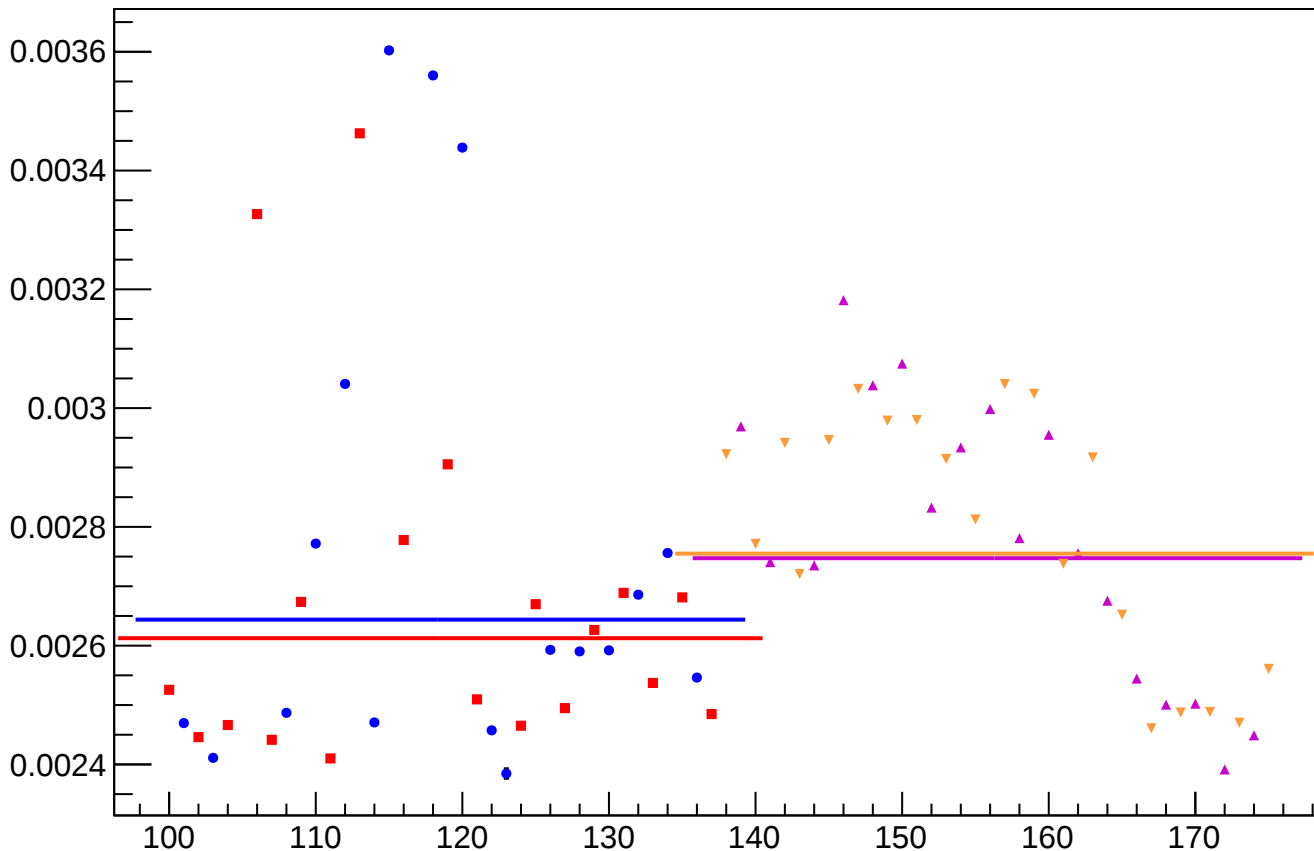
Right: -1.593+/-0.000 χ^2/NDF : 283924451158.7/35

In: -1.744+/-0.000 χ^2/NDF : 321604329919.1/34

Out: -1.741+/-0.000 χ^2/NDF : 354812379050.2/38

All: -1.743+/-0.000 χ^2/NDF : 676429576473.9

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151383.5/16

Left Out: 0.003+/-0.000 χ^2/NDF :165298.2/19

Right Out: 0.003+/-0.000 χ^2/NDF : 105296.2/18

Left In: 0.003+/-0.000 χ^2/NDF :183297.5/17

Left: 0.003+/-0.000 χ^2/NDF : 348703.3/37

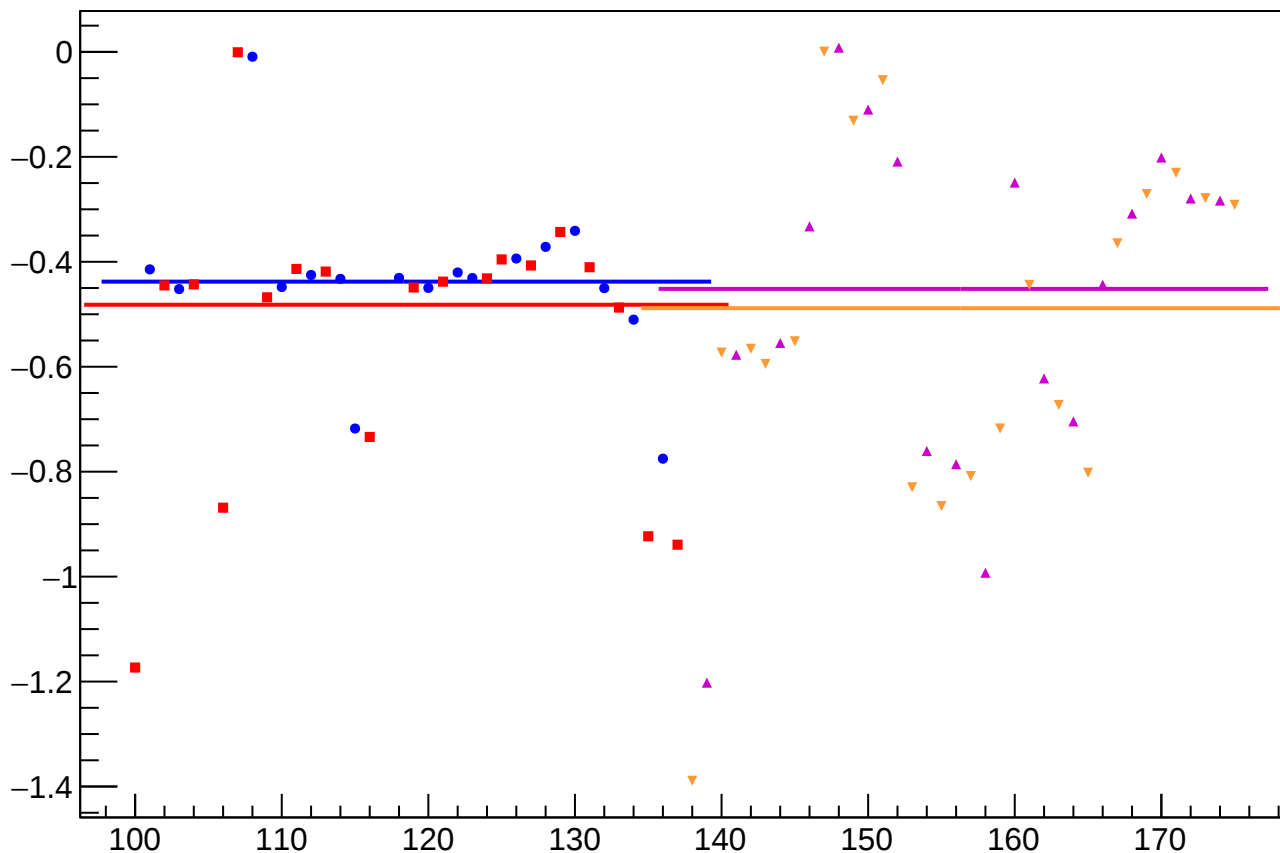
Right: 0.003+/-0.000 χ^2/NDF : 257596.7/35

In: 0.003+/-0.000 χ^2/NDF :347397.7/34

Out: 0.003+/-0.000 χ^2/NDF :296644.7/38

All: 0.003+/-0.000 χ^2/NDF : 644148.2/73

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1462454117.6/16

Left Out: -0.488+/-0.000 χ^2/NDF : 9456157868.1/19

Right Out: -0.482+/-0.000 χ^2/NDF : 2694625740.7/18

Left In: -0.452+/-0.000 χ^2/NDF : 8143891564.9/17

Left: -0.471+/-0.000 χ^2/NDF : 17661695146.6/37

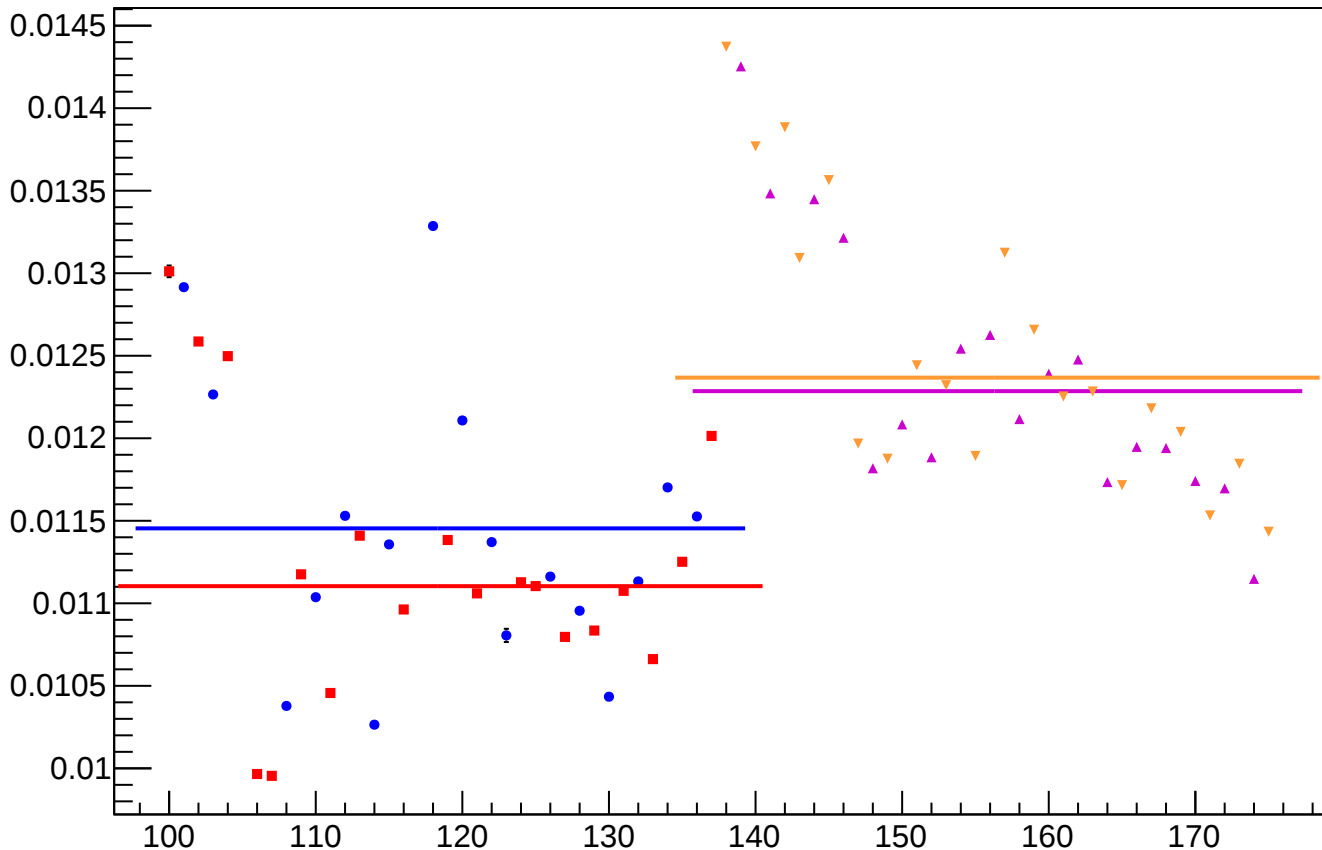
Right: -0.461+/-0.000 χ^2/NDF : 4208237576.2/35

In: -0.447+/-0.000 χ^2/NDF : 9612370599.2/34

Out: -0.486+/-0.000 χ^2/NDF : 12152297591.5/38

All: -0.467+/-0.000 χ^2/NDF : 21875689452.1/...

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64687.8/16

Left Out: 0.012+/-0.000 χ^2/NDF :105093.1/19

Right Out: 0.011+/-0.000 χ^2/NDF : 56045.0/18

Left In: 0.012+/-0.000 χ^2/NDF :90950.2/17

Left: 0.012+/-0.000 χ^2/NDF : 196649.4/37

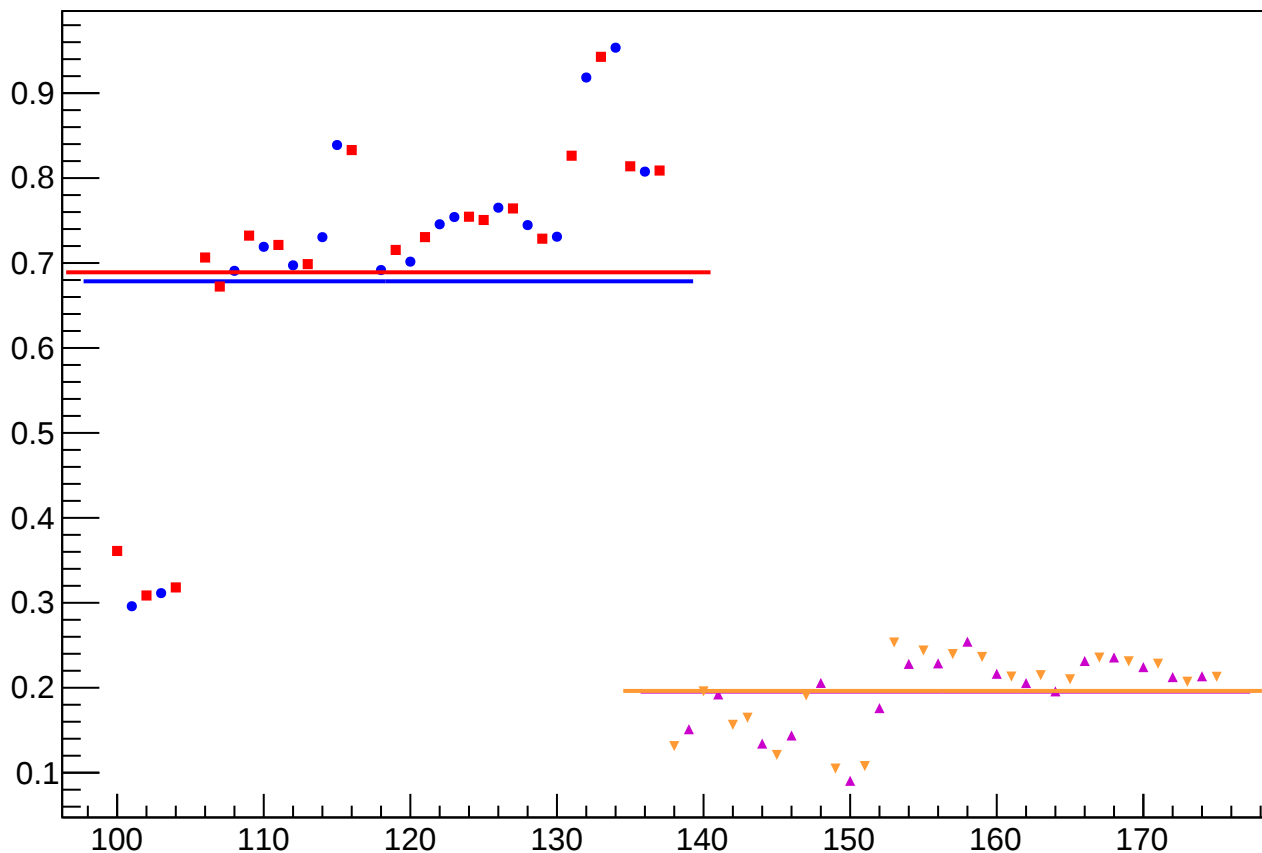
Right: 0.011+/-0.000 χ^2/NDF : 127177.8/35

In: 0.012+/-0.000 χ^2/NDF :199359.0/34

Out: 0.012+/-0.000 χ^2/NDF :273265.9/38

All: 0.012+/-0.000 χ^2/NDF : 473903.0/73

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38506442638.3/16

Left Out: 0.196+/-0.000 χ^2/NDF : 6588298474.7/19

Right Out: 0.689+/-0.000 χ^2/NDF : 35358596931.1/18

Left In: 0.195+/-0.000 χ^2/NDF : 5227297387.5/17

Left: 0.196+/-0.000 χ^2/NDF : 11816636636.5/37

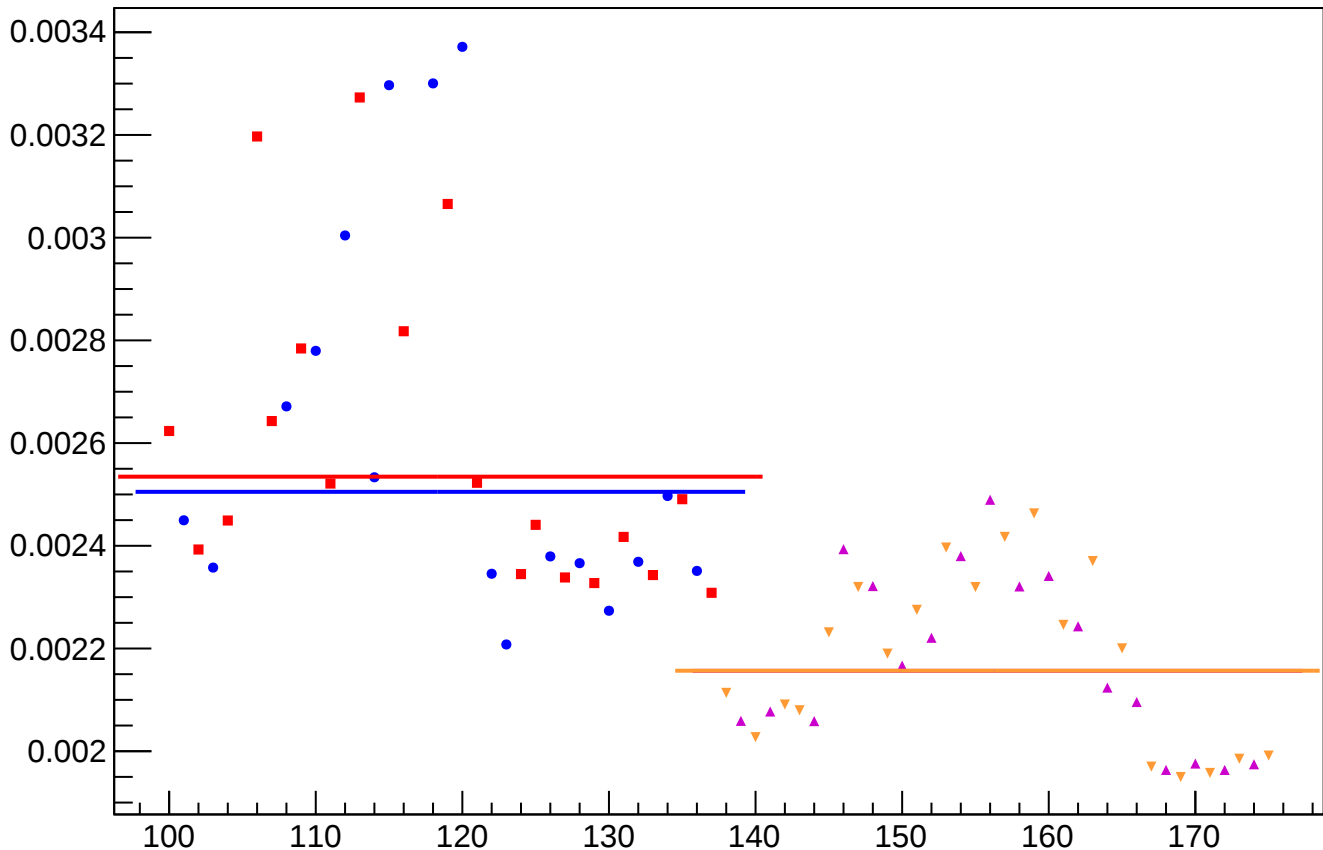
Right: 0.684+/-0.000 χ^2/NDF : 73922739006.0/35

In: 0.319+/-0.000 χ^2/NDF : 219975498271.3/34

Out: 0.318+/-0.000 χ^2/NDF : 232661125985.4/38

All: 0.319+/-0.000 χ^2/NDF : 452638798214.4

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 :175293.9/19

Right Out: 0.003+/-0.000 χ^2/NDF : 131609.0/18

Left In: 0.002+/-0.000 χ^2/NDF :153698.7/17

Left: 0.002+/-0.000 χ^2/NDF : 328993.0/37

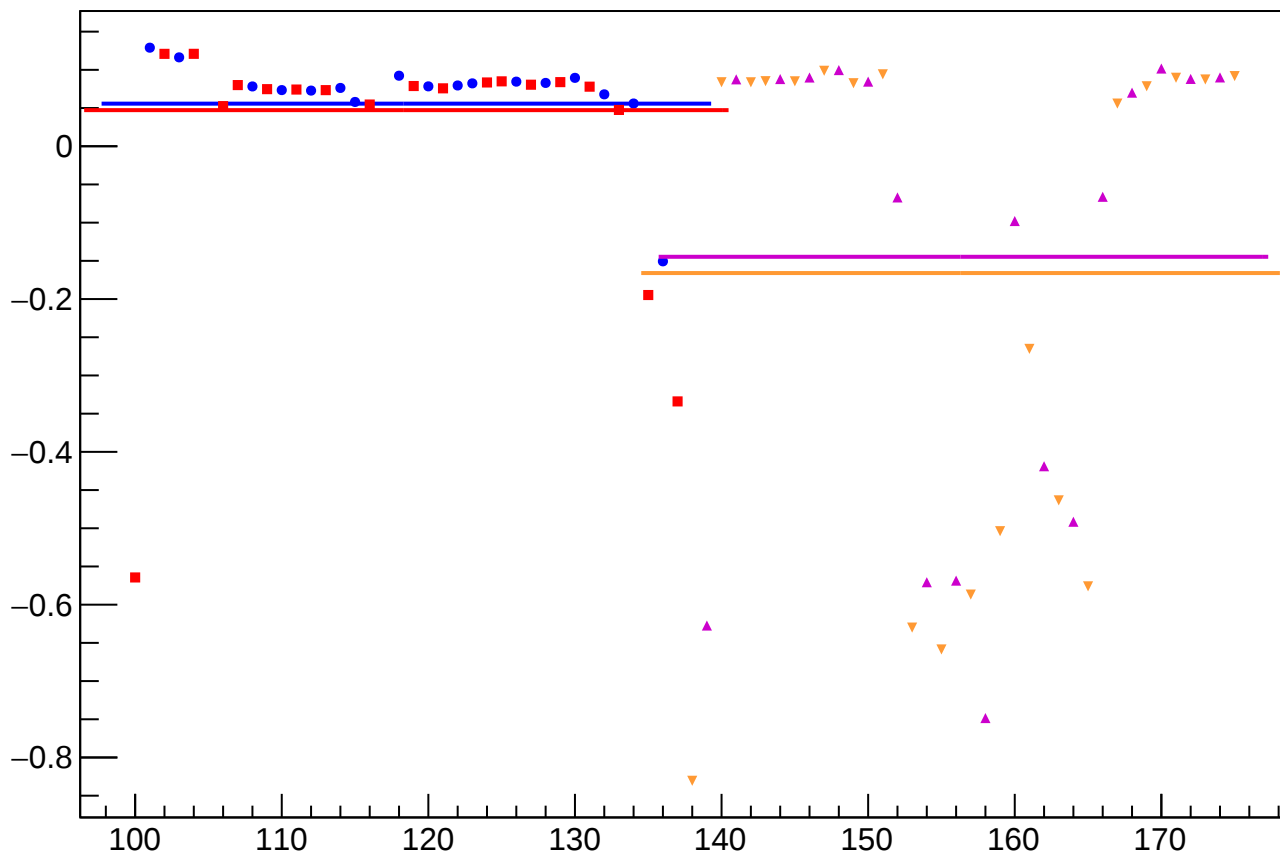
Right: 0.003+/-0.000 χ^2/NDF : 308029.3/35

In: 0.002+/-0.000 χ^2/NDF :512922.5/34

Out: 0.002+/-0.000 χ^2/NDF :531148.7/38

All: 0.002+/-0.000 χ^2/NDF : 1044153.6/73

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 423003688.1/16

Left: -0.156+/-0.000

χ^2/NDF : 21900427805.0/37

Left Out: -0.166+/-0.000

χ^2/NDF : 12121465465.5/19

Right: 0.051+/-0.000

χ^2/NDF : 1245197626.4/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819588537.2/18

In: -0.067+/-0.000

χ^2/NDF : 11842853083.0/34

Out: -0.080+/-0.000

χ^2/NDF : 15040048255.6/38

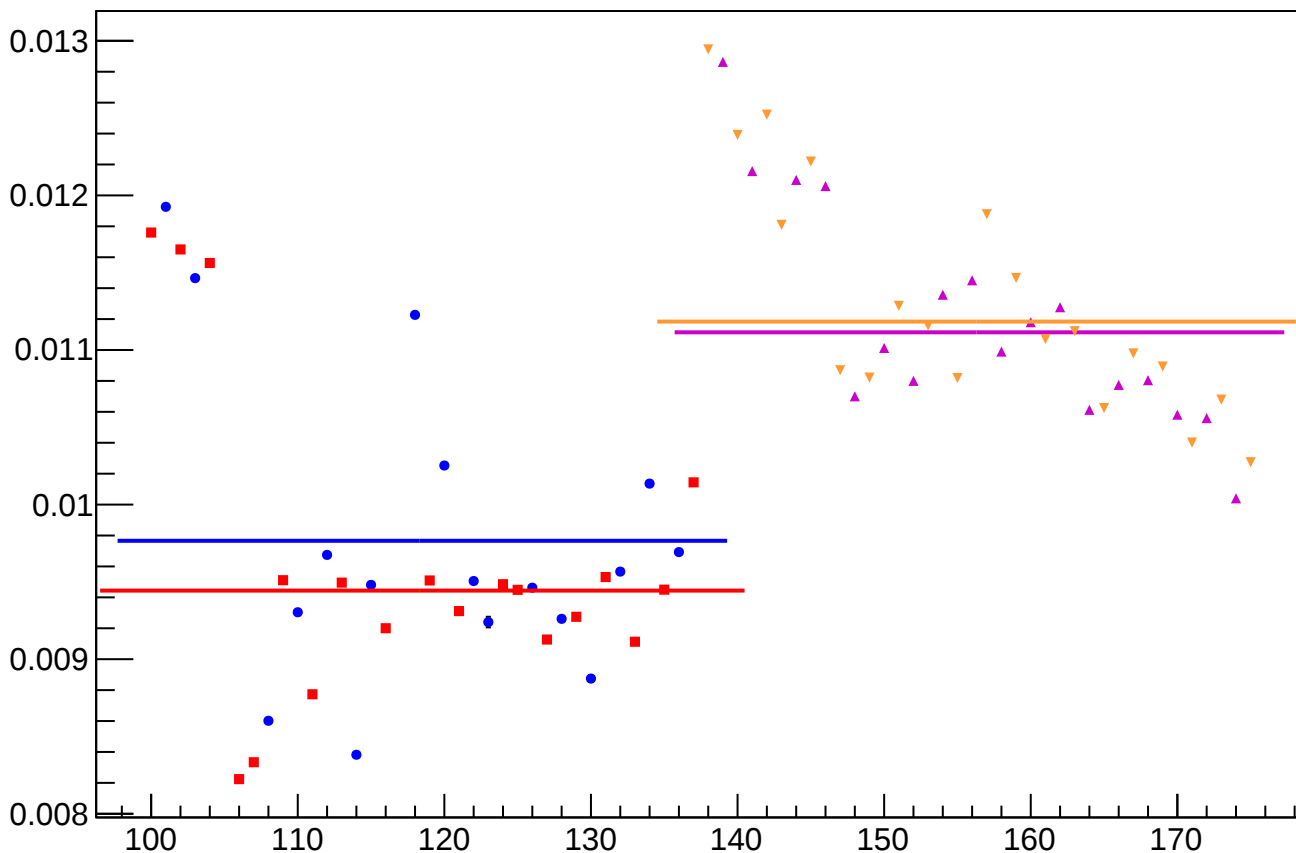
Left In: -0.145+/-0.000

χ^2/NDF : 9753837156.5/17

All: -0.074+/-0.000

χ^2/NDF : 26897263649.5/71

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 :102038.0/19

Right Out: 0.009+/-0.000 χ^2/NDF : 110693.8/18

Left In: 0.011+/-0.000 χ^2/NDF :91576.9/17

Left: 0.011+/-0.000 χ^2/NDF : 194150.2/37

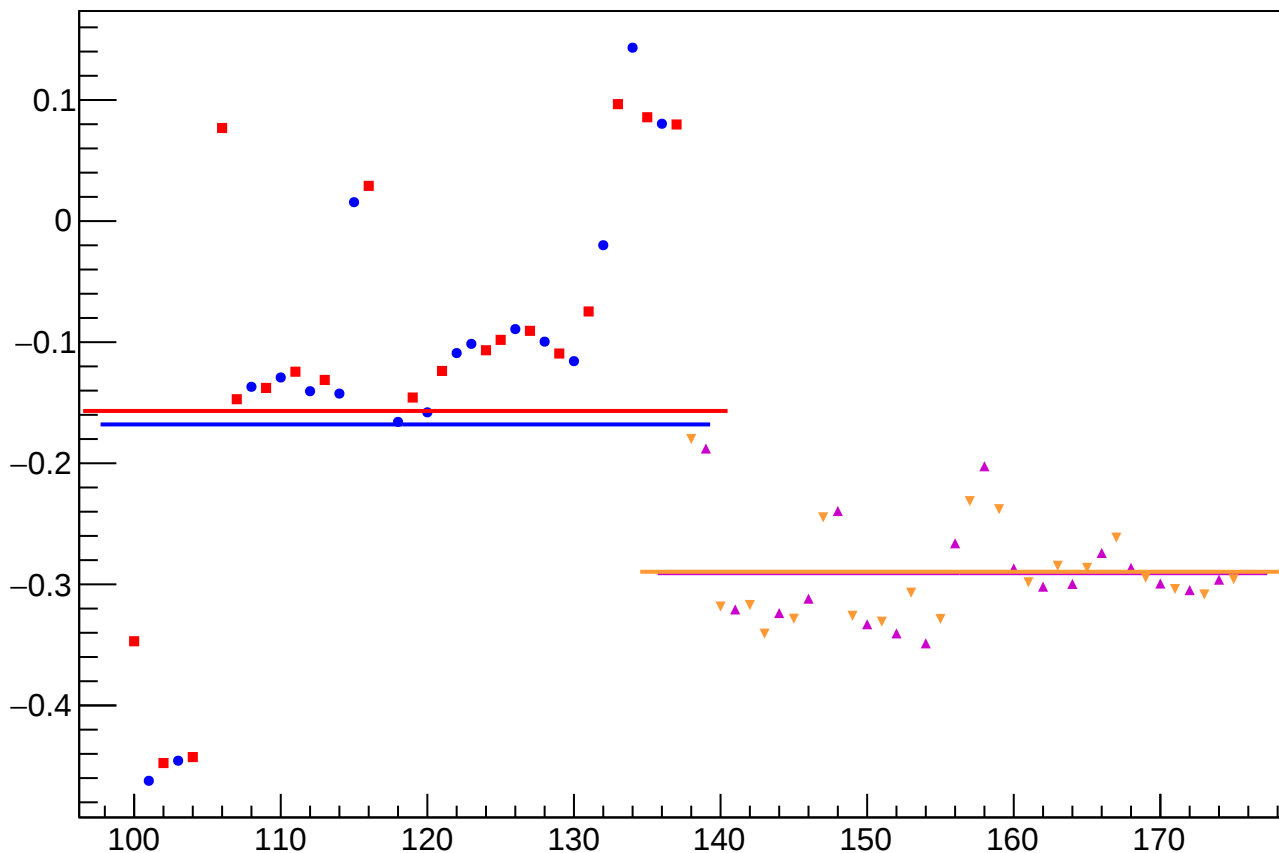
Right: 0.010+/-0.000 χ^2/NDF : 234814.0/35

In: 0.011+/-0.000 χ^2/NDF :359023.3/34

Out: 0.010+/-0.000 χ^2/NDF :492326.8/38

All: 0.011+/-0.000 χ^2/NDF : 853677.0/73

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 : 2850896909.6/19

Right Out: -0.157+/-0.000 χ^2/NDF : 11026962470.3/18

Left In: -0.291+/-0.000 χ^2/NDF : 3117717571.9/17

Left: -0.290+/-0.000 χ^2/NDF : 5969865650.8/37

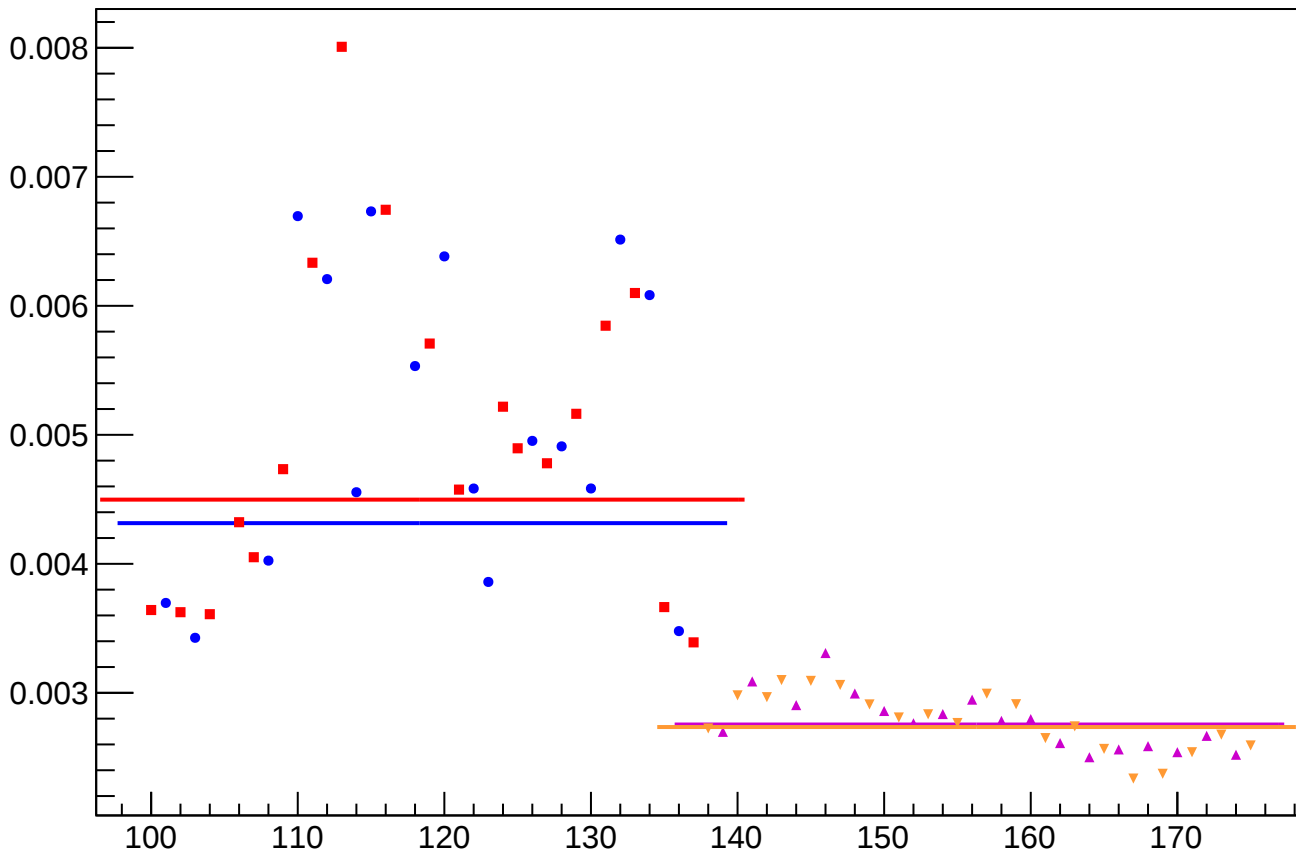
Right: -0.162+/-0.000 χ^2/NDF : 23377980189.6/35

In: -0.272+/-0.000 χ^2/NDF : 19444272860.3/34

Out: -0.271+/-0.000 χ^2/NDF : 18551332714.5/38

All: -0.272+/-0.000 χ^2/NDF : 37996607448.3/78

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 619744.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :195650.8/19

Right Out: 0.004+/-0.000 χ^2/NDF : 649708.4/18

Left In: 0.003+/-0.000 χ^2/NDF :137405.6/17

Left: 0.003+/-0.000 χ^2/NDF : 333751.8/37

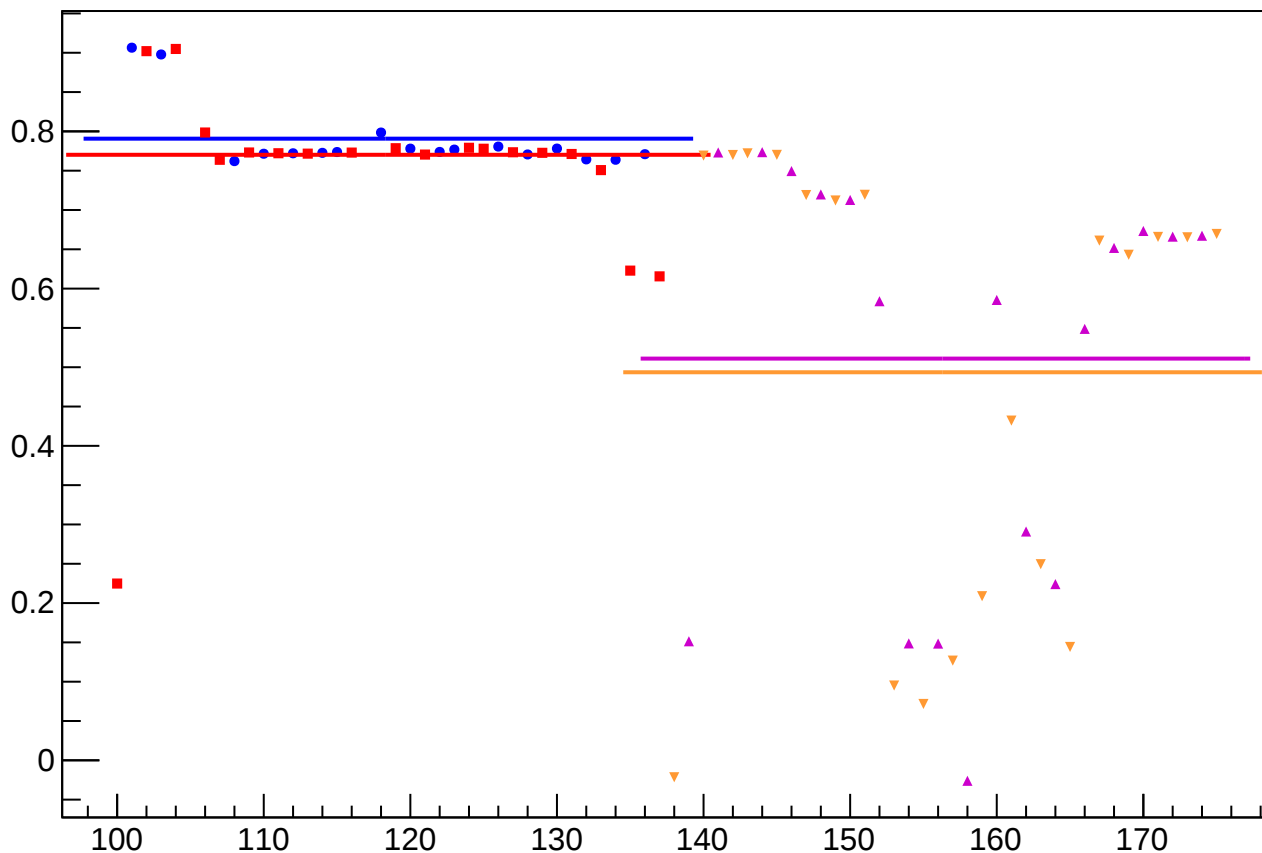
Right: 0.004+/-0.000 χ^2/NDF : 1279743.5/35

In: 0.003+/-0.000 χ^2/NDF :2047056.9/34

Out: 0.003+/-0.000 χ^2/NDF :2491807.8/38

All: 0.003+/-0.000 χ^2/NDF : 4539155.9/73

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106705767.1/16

Left Out: 0.494 $\pm$ 0.000 χ^2 /NDF: 9058306923.2/19

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375442189.7/18

Left In: 0.511 $\pm$ 0.000 χ^2 /NDF: 7443702003.0/17

Left: 0.502 $\pm$ 0.000 χ^2 /NDF: 16519647780.4/37

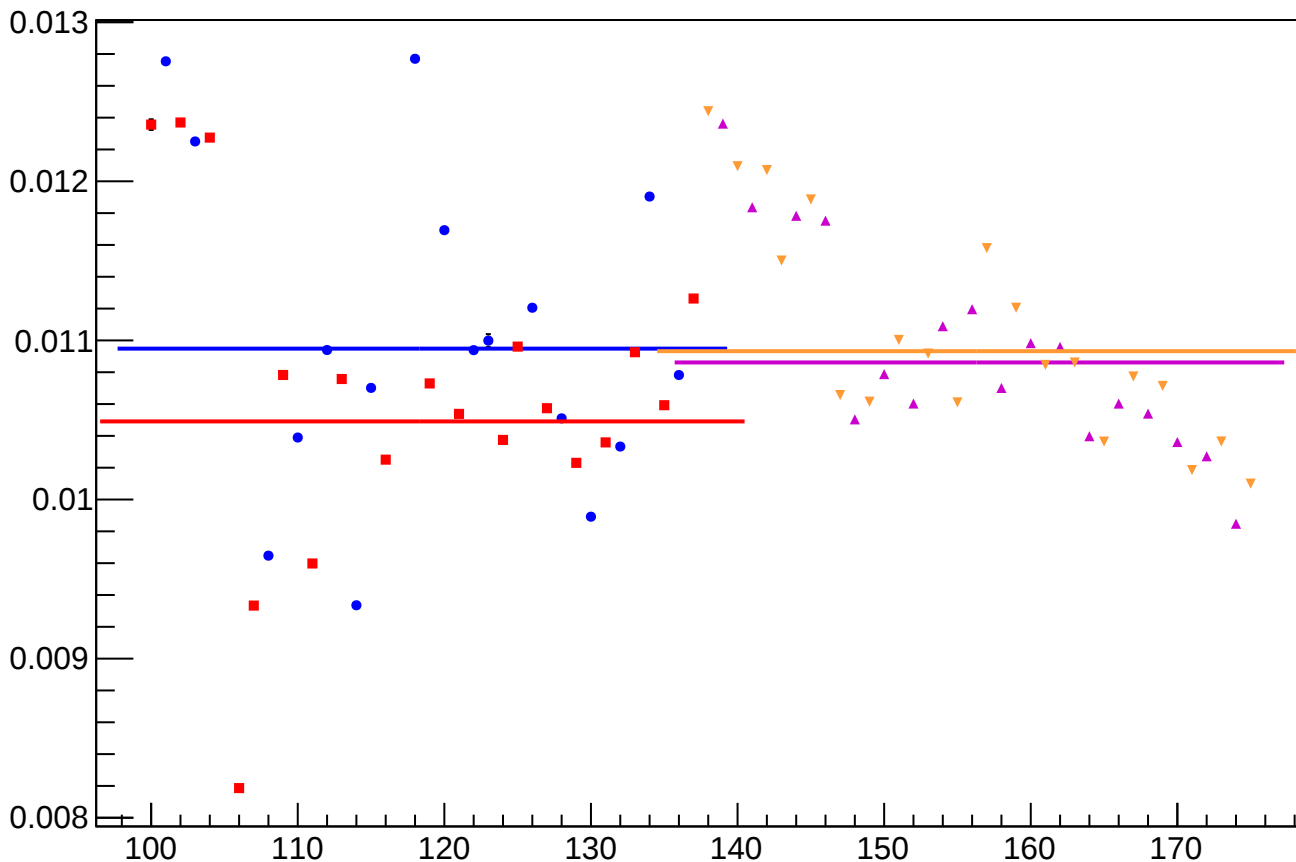
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494318002.1/35

In: 0.601 $\pm$ 0.000 χ^2 /NDF: 10403790797.9/34

Out: 0.588 $\pm$ 0.000 χ^2 /NDF: 12589306804.8/38

All: 0.594 $\pm$ 0.000 χ^2 /NDF: 23007271373.9/77

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 : 90788.2/19

Right Out: 0.010+/-0.000 χ^2/NDF : 119420.8/18

Left In: 0.011+/-0.000 χ^2/NDF : 82540.4/17

Left: 0.011+/-0.000 χ^2/NDF : 173915.1/37

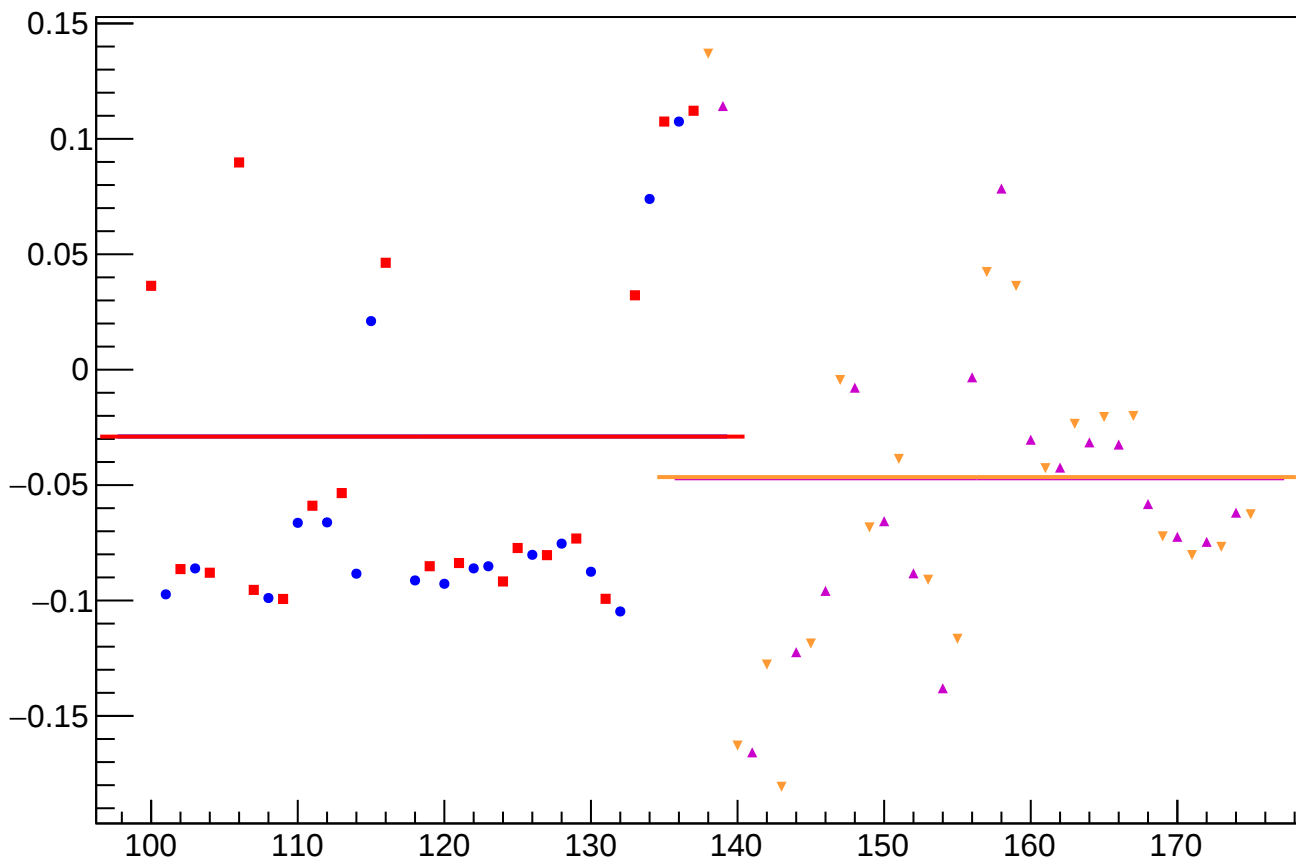
Right: 0.011+/-0.000 χ^2/NDF : 230086.8/35

In: 0.011+/-0.000 χ^2/NDF : 181642.7/34

Out: 0.011+/-0.000 χ^2/NDF : 226279.9/38

All: 0.011+/-0.000 χ^2/NDF : 409967.5/73

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2445975608.2/16

Left: -0.047+/-0.000

χ^2/NDF : 13122885430.3/37

Left Out: -0.047+/-0.000

χ^2/NDF : 7091037489.5/19

Right: -0.029+/-0.000

χ^2/NDF : 4559325692.9/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2113349669.8/18

In: -0.044+/-0.000

χ^2/NDF : 8560112454.4/34

Out: -0.044+/-0.000

χ^2/NDF : 9280253952.9/38

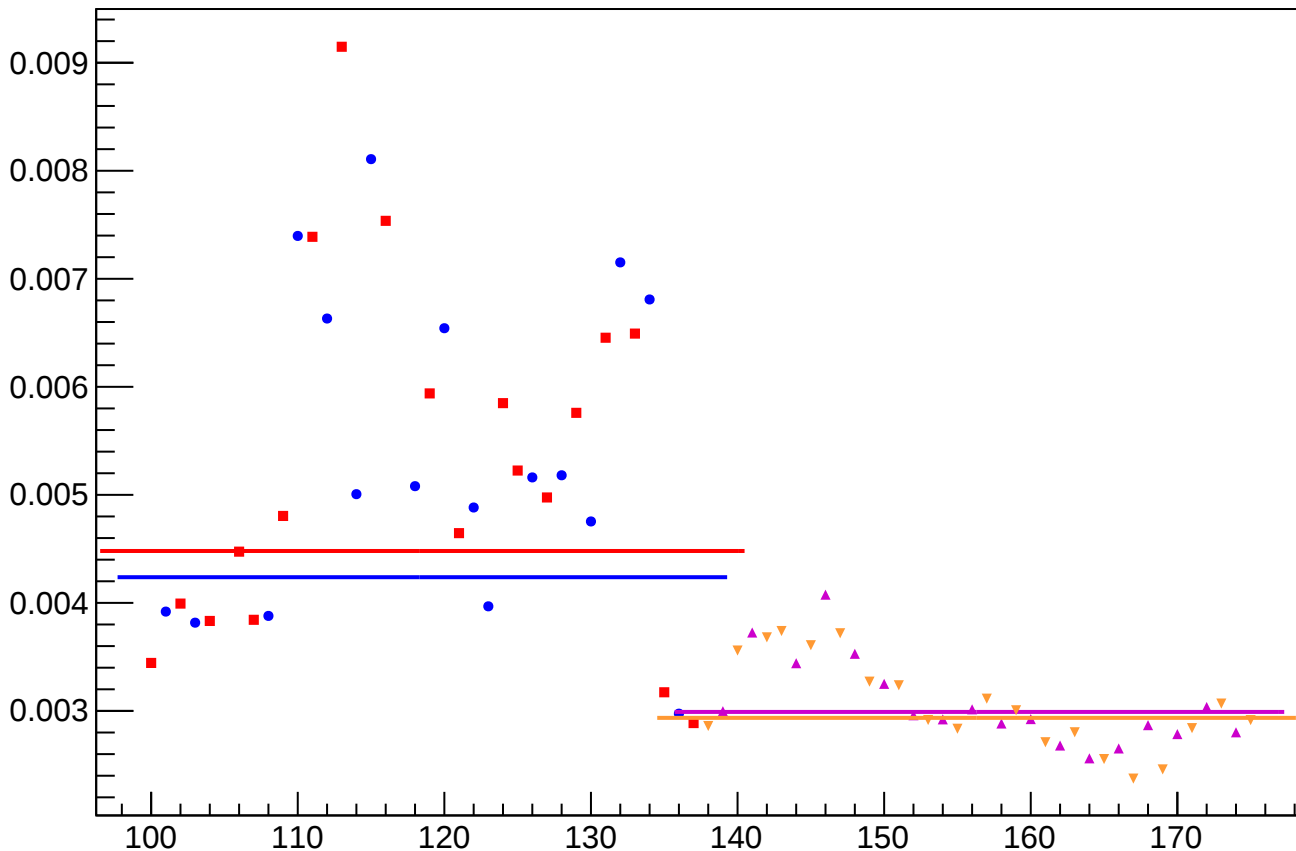
Left In: -0.047+/-0.000

χ^2/NDF : 6031643541.0/17

All: -0.044+/-0.000

χ^2/NDF : 17840367975.8/174

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 881584.1/16

Left Out: 0.003+/-0.000 χ^2/NDF : 464076.8/19

Right Out: 0.004+/-0.000 χ^2/NDF : 984186.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 316064.0/17

Left: 0.003+/-0.000 χ^2/NDF : 784751.1/37

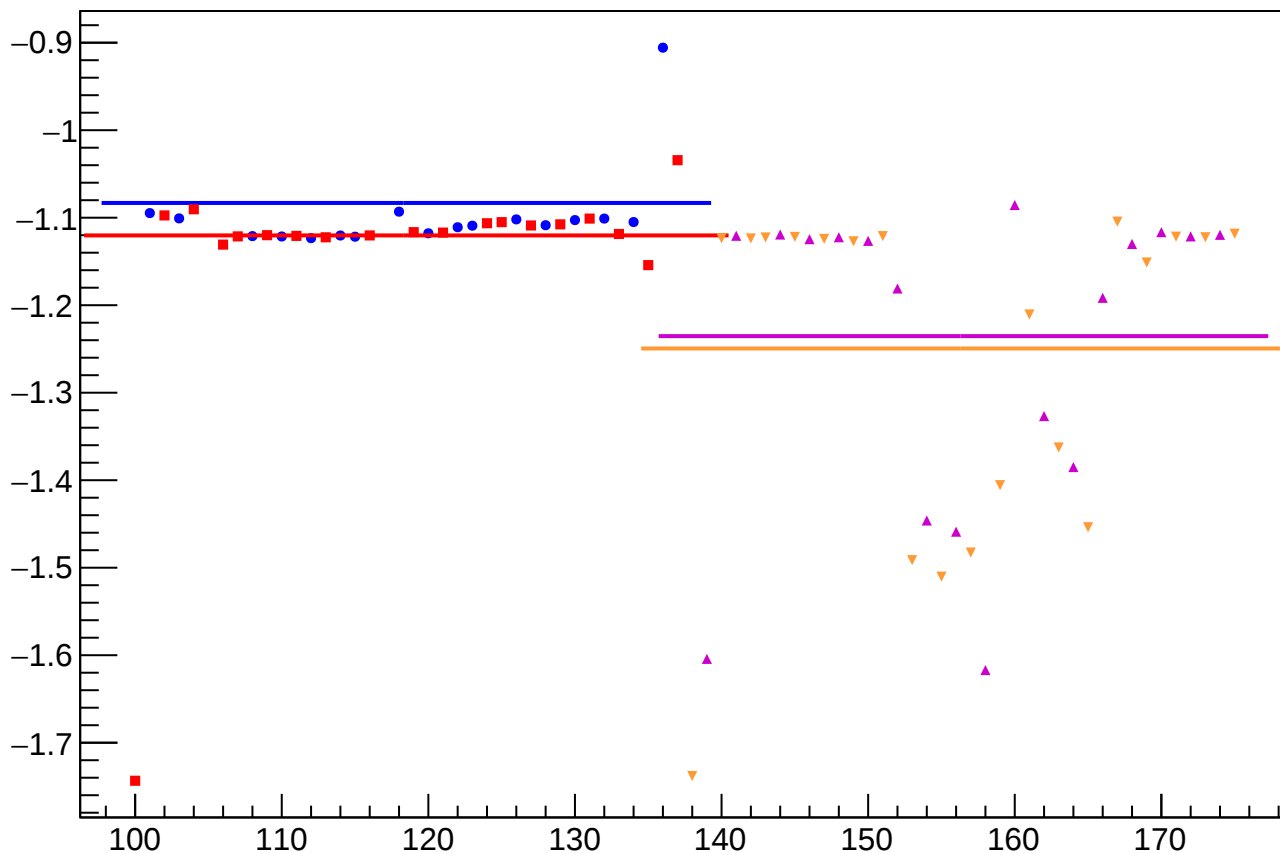
Right: 0.004+/-0.000 χ^2/NDF : 1883305.7/35

In: 0.003+/-0.000 χ^2/NDF : 1980096.6/34

Out: 0.003+/-0.000 χ^2/NDF : 2625415.4/38

All: 0.003+/-0.000 χ^2/NDF : 4607918.9/73

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202920901.6/16

Left Out: -1.249+/-0.000 χ^2/NDF : 4749424232.6/19

Right Out: -1.120+/-0.000 χ^2/NDF : 220571280.7/18

Left In: -1.235+/-0.000 χ^2/NDF : 4089409937.7/17

Left: -1.243+/-0.000 χ^2/NDF : 8853295585.5/37

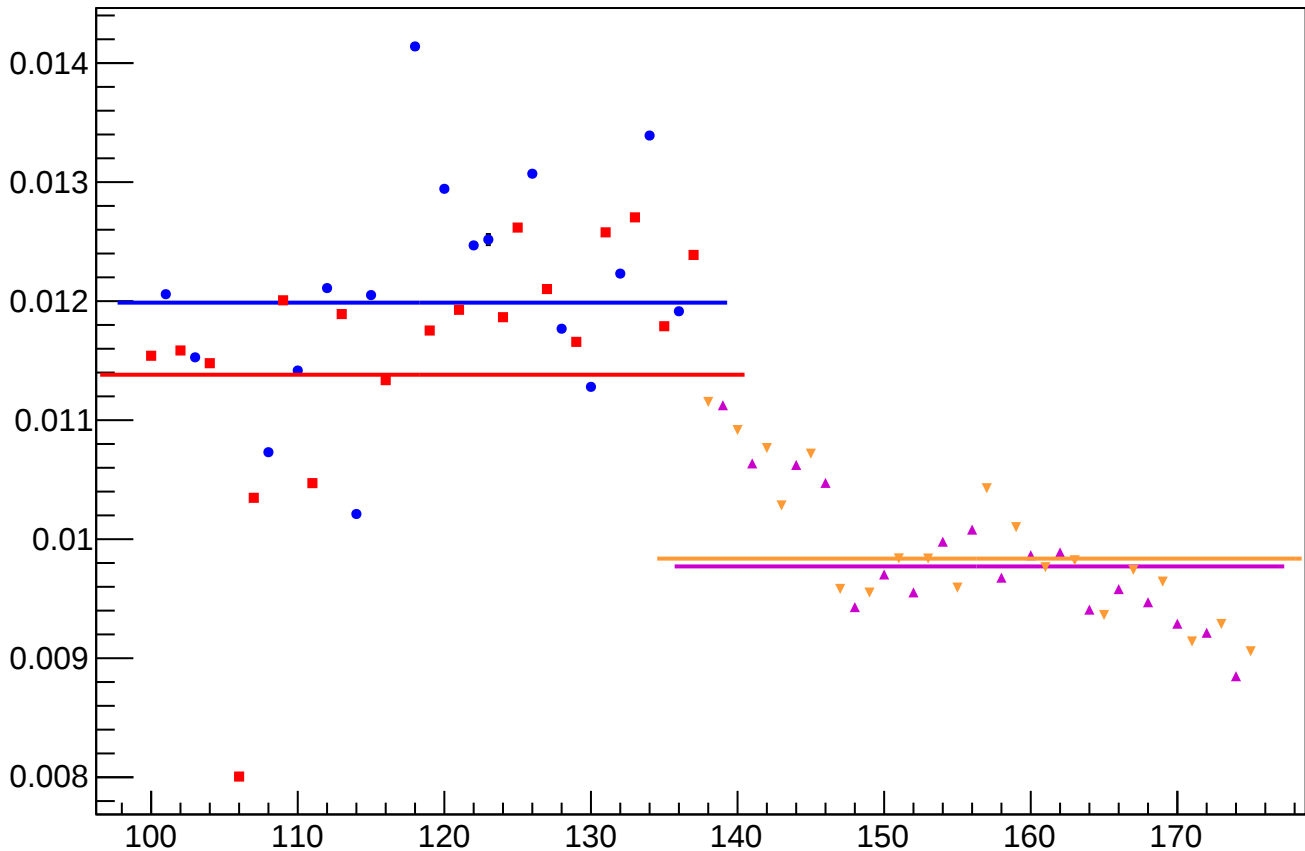
Right: -1.103+/-0.000 χ^2/NDF : 456854707.0/35

In: -1.199+/-0.000 χ^2/NDF : 5079271982.9/34

Out: -1.216+/-0.000 χ^2/NDF : 5622060083.2/38

All: -1.208+/-0.000 χ^2/NDF : 10729758370.6/79

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 60402.0/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:91171.4/19

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 154529.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:82288.3/17

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 174082.4/37

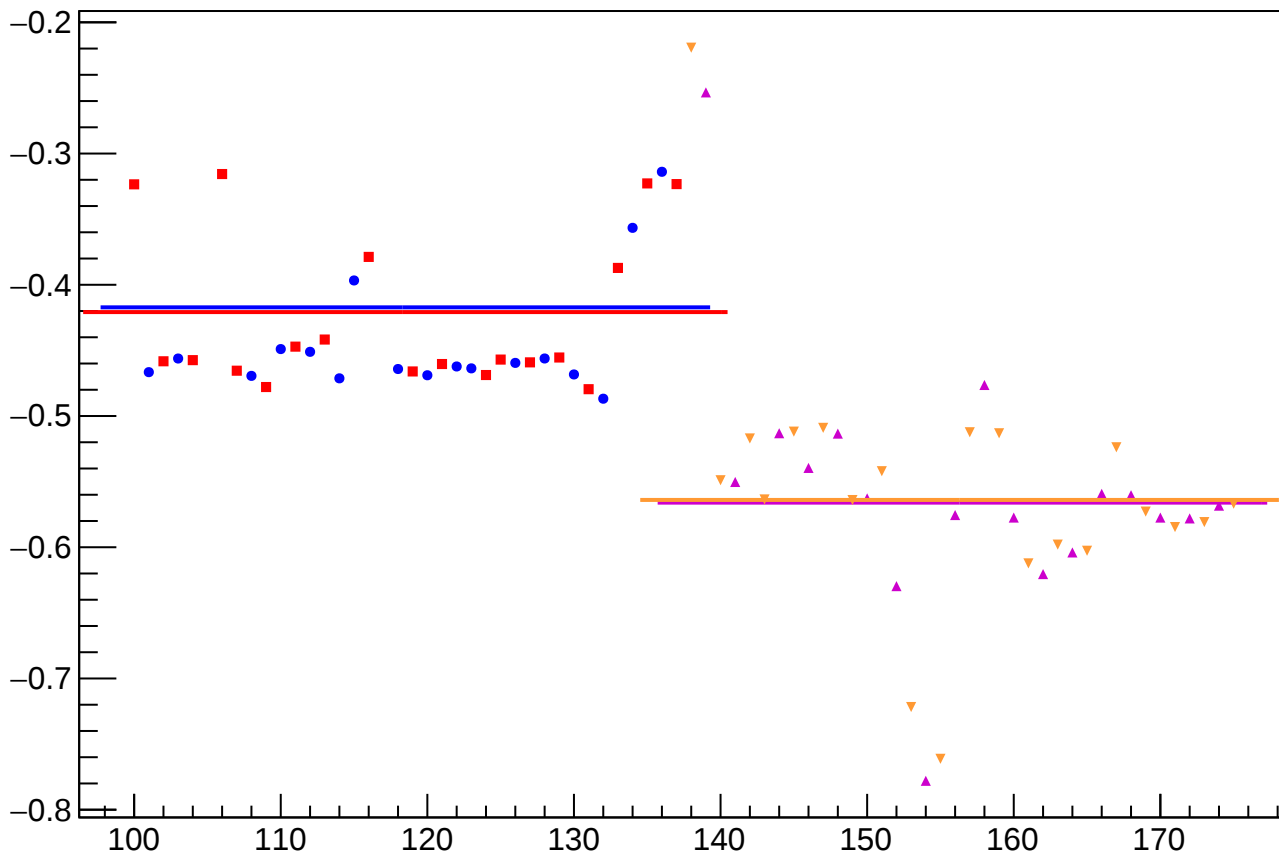
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 232714.9/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:476390.7/34

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:432111.0/38

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 909351.7/73

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2039045143.8/16

Left Out: -0.564+/-0.000 χ^2/NDF : 13310484066.5/19

Right Out: -0.421+/-0.000 χ^2/NDF : 1646463410.7/18

Left In: -0.566+/-0.000 χ^2/NDF : 10431883565.1/17

Left: -0.565+/-0.000 χ^2/NDF : 23744981935.9/37

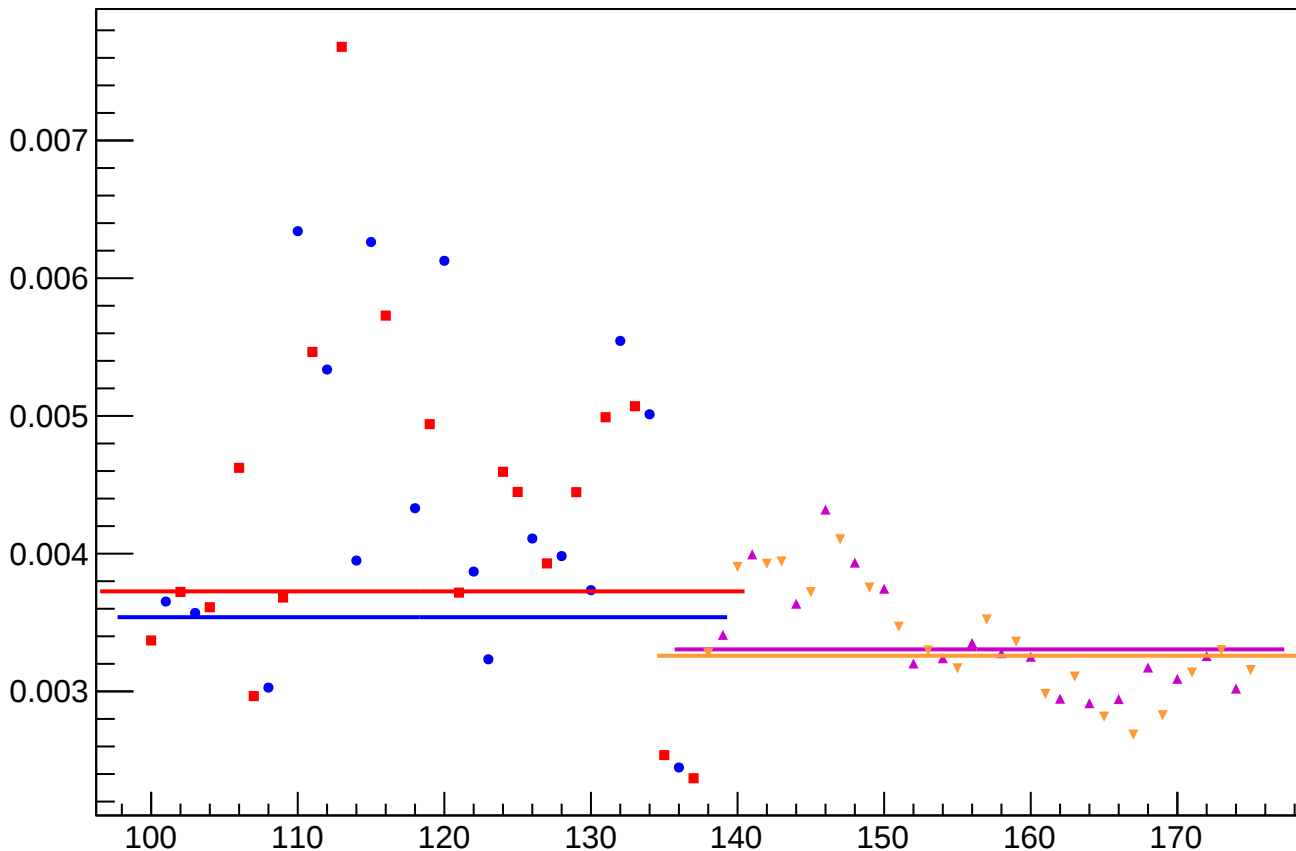
Right: -0.419+/-0.000 χ^2/NDF : 3688293301.3/35

In: -0.526+/-0.000 χ^2/NDF : 19506801114.0/34

Out: -0.529+/-0.000 χ^2/NDF : 21500882991.0/38

All: -0.528+/-0.000 χ^2/NDF : 41015871755.8/84

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 836154.0/16

Left Out: 0.003 $\pm$ 0.000 χ^2/NDF :374539.0/19

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 898447.6/18

Left In: 0.003 $\pm$ 0.000 χ^2/NDF :276224.6/17

Left: 0.003 $\pm$ 0.000 χ^2/NDF : 653402.7/37

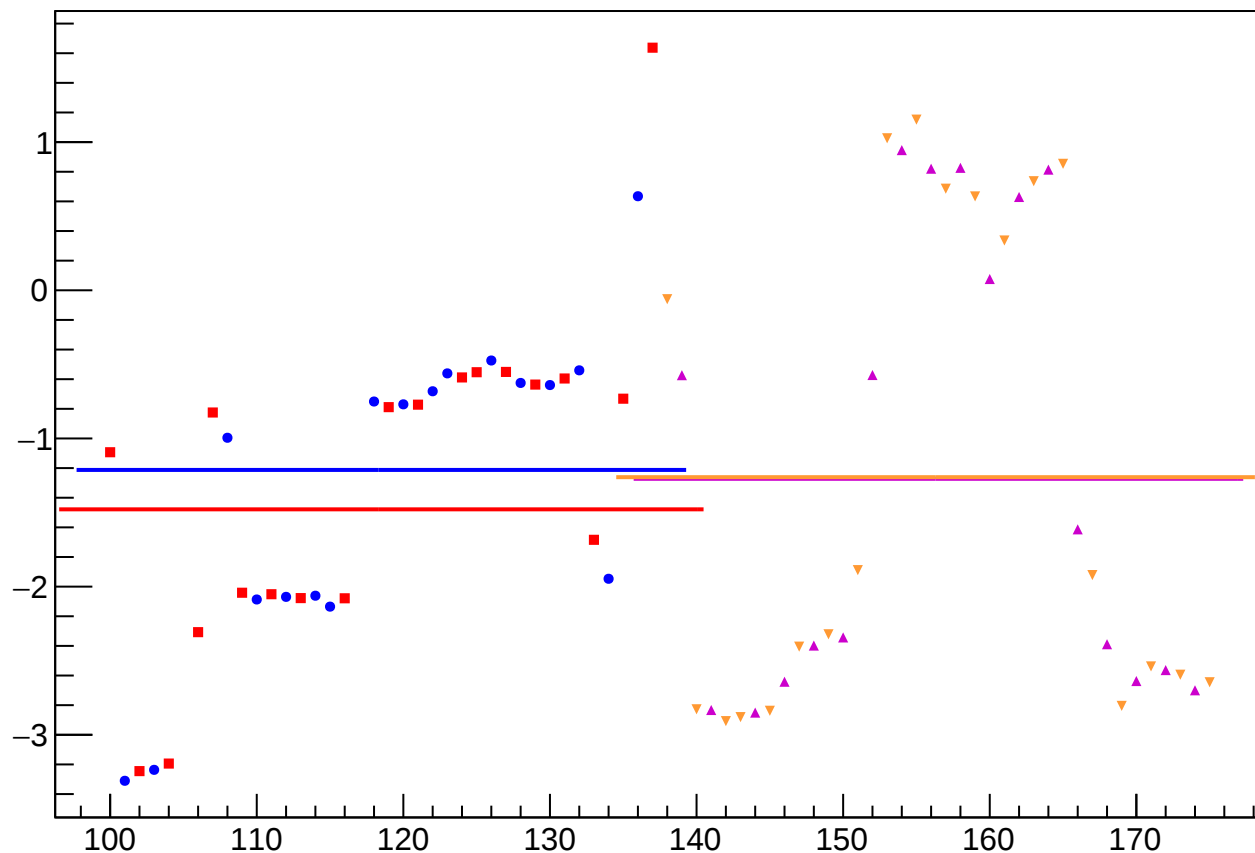
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 1749655.8/35

In: 0.003 $\pm$ 0.000 χ^2/NDF :1147099.8/34

Out: 0.003 $\pm$ 0.000 χ^2/NDF :1412465.3/38

All: 0.003 $\pm$ 0.000 χ^2/NDF : 2559603.2/73

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2 /NDF: 1992853443.9/16

Left Out: -1.261 $\pm$ 0.000 χ^2 /NDF: 6708406159.5/19

Right Out: -1.478 $\pm$ 0.000 χ^2 /NDF: 1578264383.8/18

Left In: -1.272 $\pm$ 0.000 χ^2 /NDF: 5498741569.5/17

Left: -1.267 $\pm$ 0.000 χ^2 /NDF: 12207298627.3/37

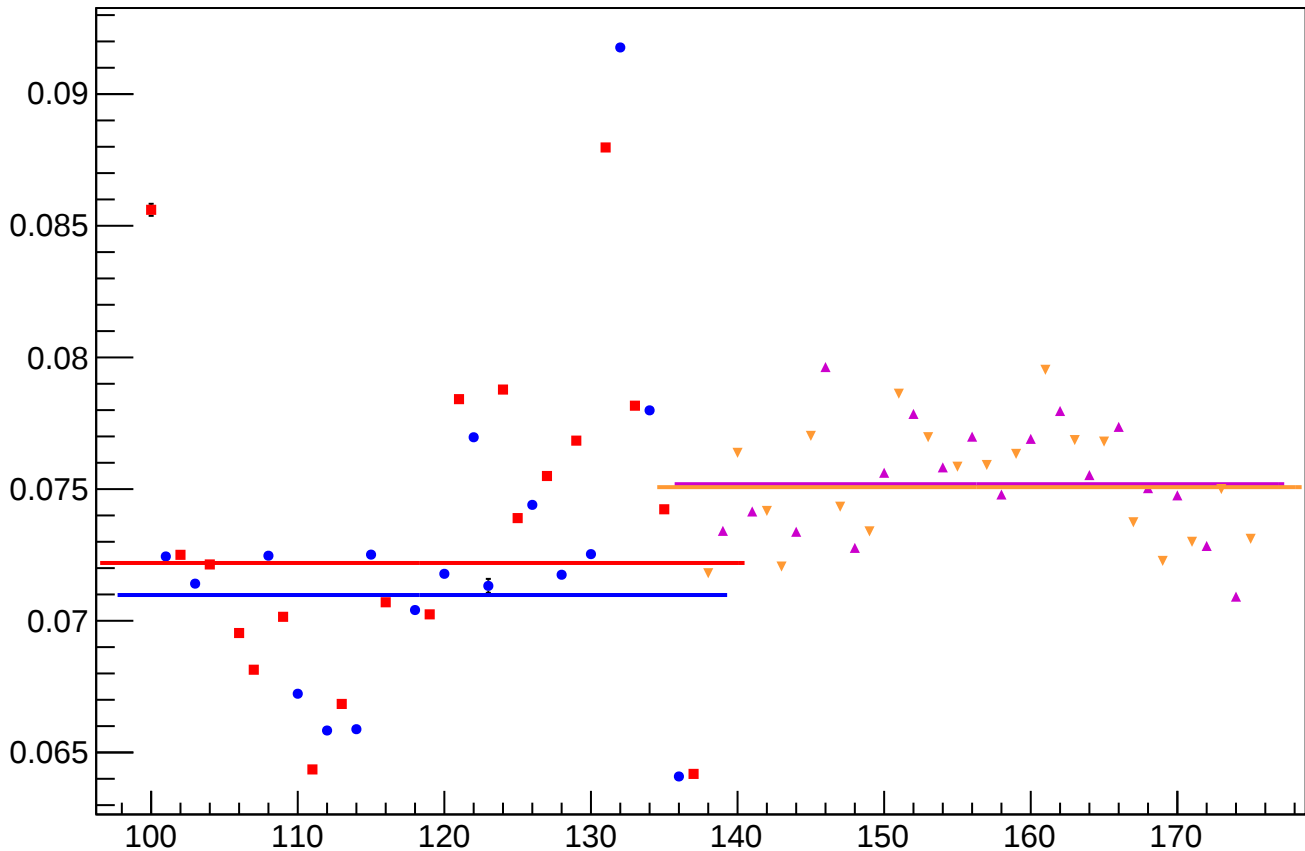
Right: -1.347 $\pm$ 0.000 χ^2 /NDF: 3617796481.7/35

In: -1.251 $\pm$ 0.000 χ^2 /NDF: 7494632786.9/34

Out: -1.335 $\pm$ 0.000 χ^2 /NDF: 8328342206.9/38

All: -1.294 $\pm$ 0.000 χ^2 /NDF: 15836271821.3/78

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77589.5/16

Left Out: 0.075+/-0.000 χ^2/NDF : 24372.4/19

Right Out: 0.072+/-0.000 χ^2/NDF : 73228.9/18

Left In: 0.075+/-0.000 χ^2/NDF : 21865.5/17

Left: 0.075+/-0.000 χ^2/NDF : 46269.7/37

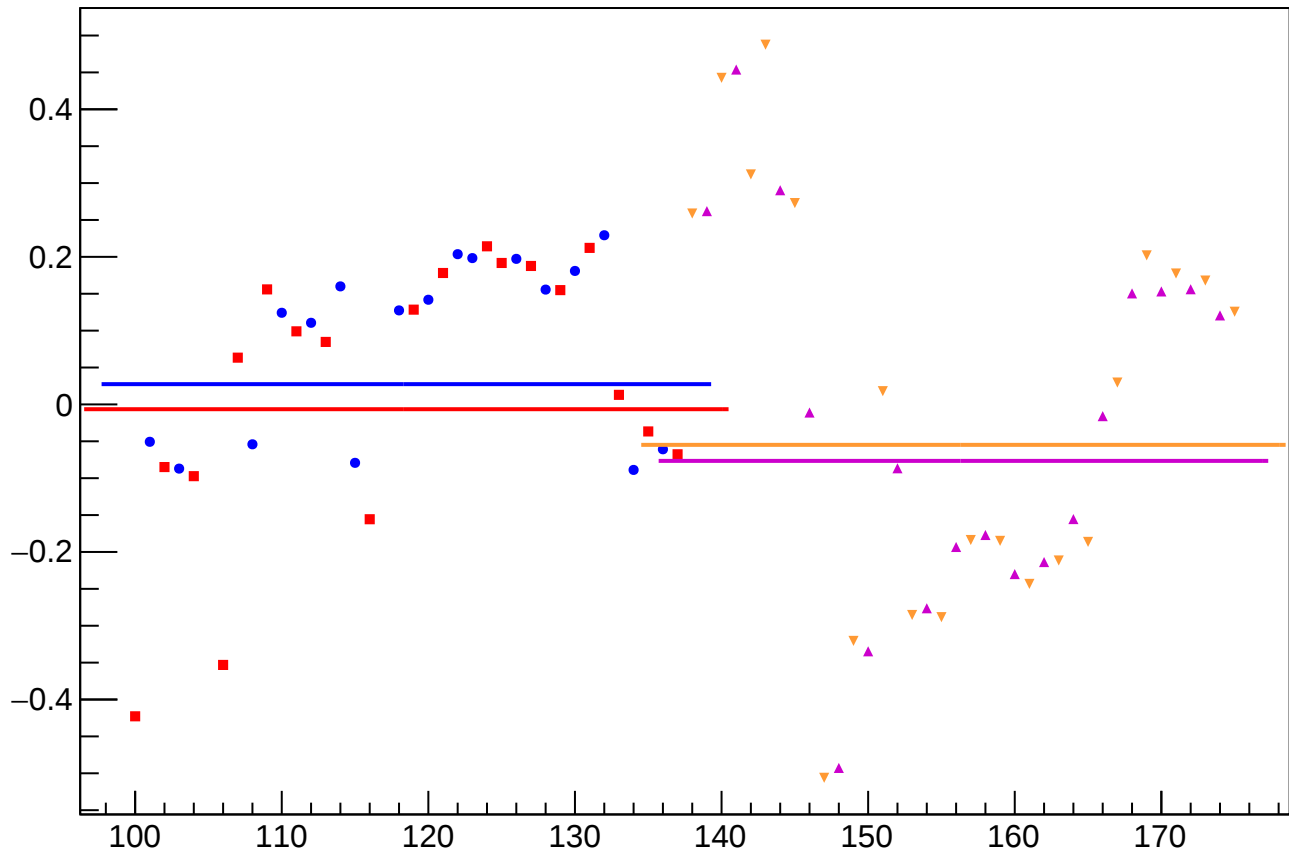
Right: 0.072+/-0.000 χ^2/NDF : 152771.2/35

In: 0.074+/-0.000 χ^2/NDF : 129449.7/34

Out: 0.074+/-0.000 χ^2/NDF : 112268.9/38

All: 0.074+/-0.000 χ^2/NDF : 242309.5/73

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000

χ^2/NDF : 562337631.4/16

Left: -0.065 $\pm$ 0.000

χ^2/NDF : 32408048849.5/37

Left Out: -0.055 $\pm$ 0.000

χ^2/NDF : 18542651678.8/19

Right: 0.010 $\pm$ 0.000

χ^2/NDF : 1787030042.0/35

Right Out: -0.007 $\pm$ 0.000

χ^2/NDF : 1199278894.0/18

In: -0.063 $\pm$ 0.000

χ^2/NDF : 14767423632.0/34

Out: -0.049 $\pm$ 0.000

χ^2/NDF : 19832895194.1/38

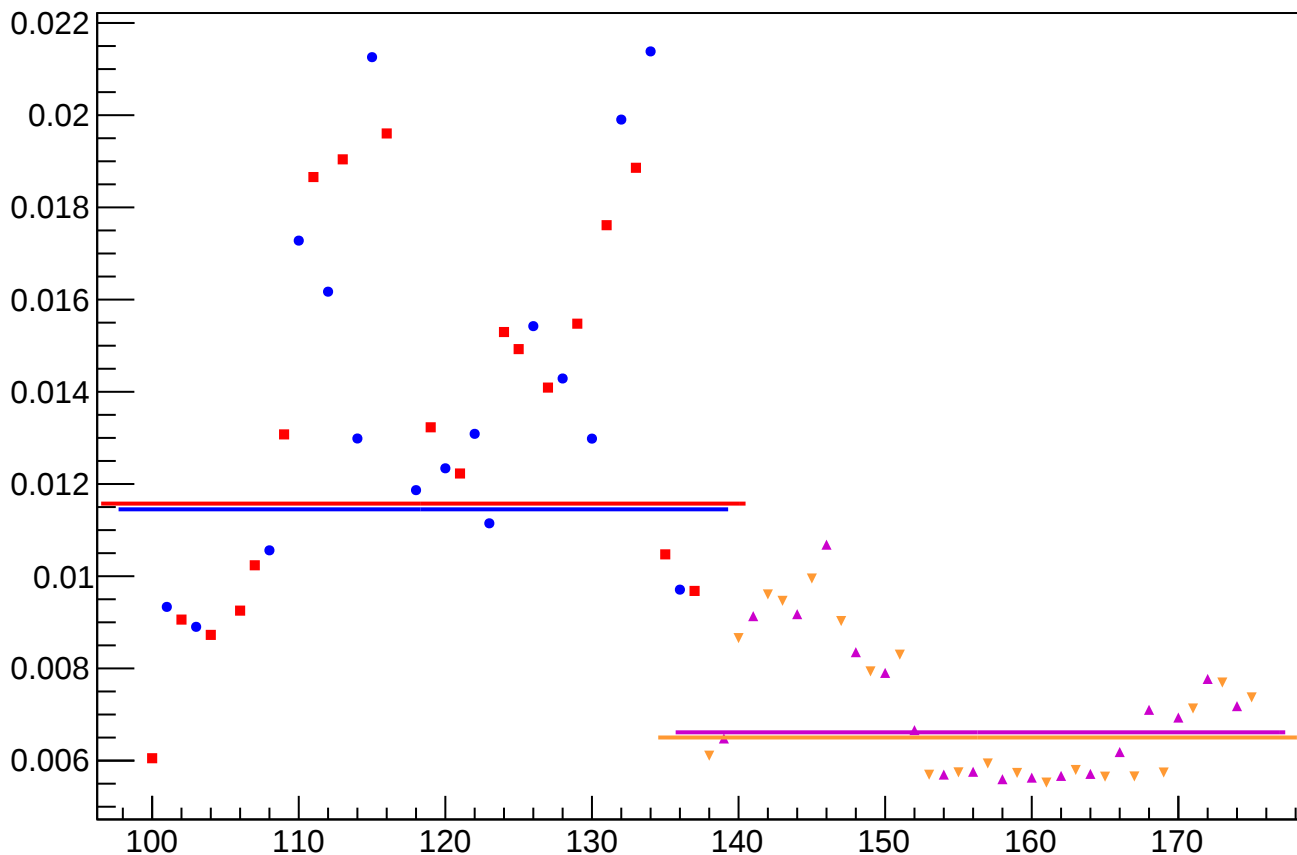
Left In: -0.077 $\pm$ 0.000

χ^2/NDF : 13793139955.9/17

All: -0.056 $\pm$ 0.000

χ^2/NDF : 34634057668.4/...

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 679628.0/16

Left Out: 0.007+/-0.000 χ^2/NDF :1002122.6/19

Right Out: 0.012+/-0.000 χ^2/NDF : 997161.1/18

Left In: 0.007+/-0.000 χ^2/NDF :837939.1/17

Left: 0.007+/-0.000 χ^2/NDF : 1843916.7/37

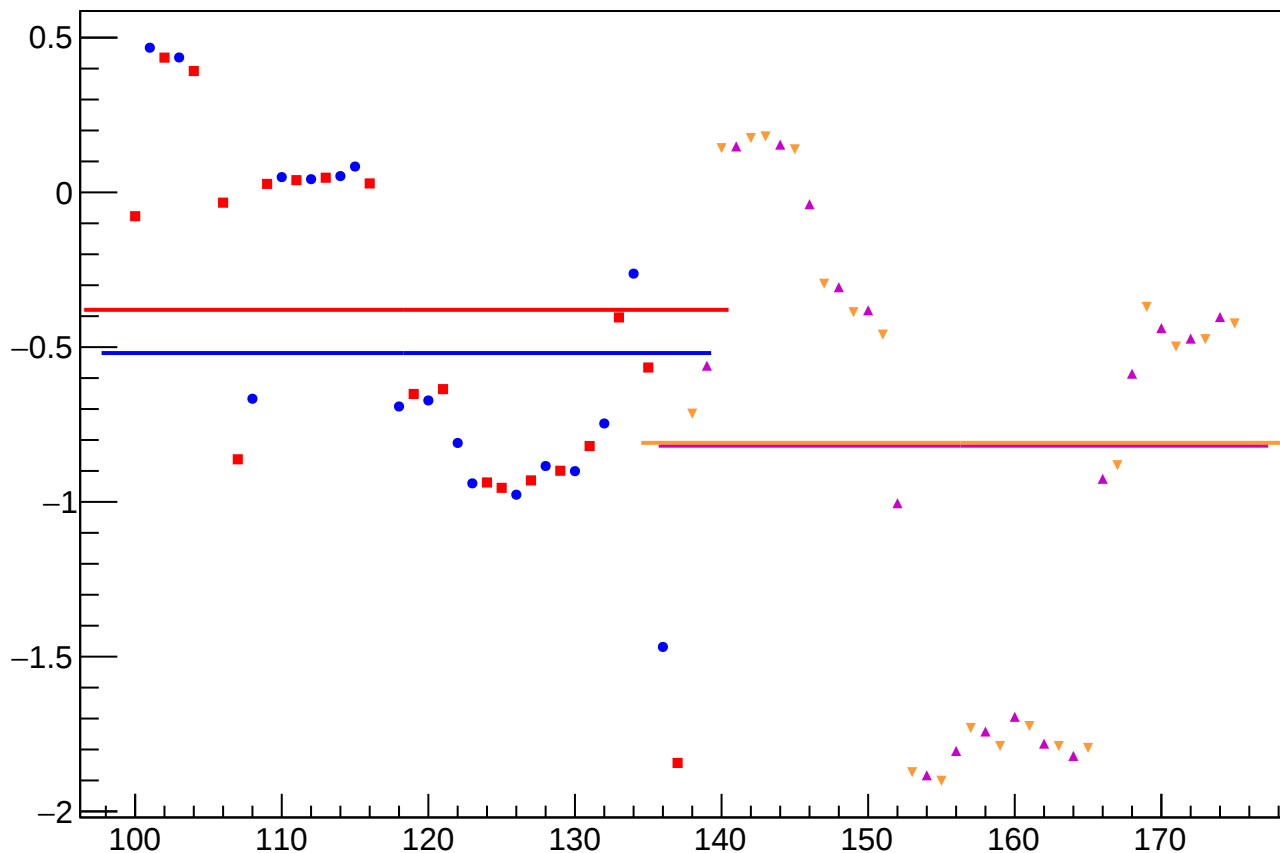
Right: 0.012+/-0.000 χ^2/NDF : 1677468.5/35

In: 0.007+/-0.000 χ^2/NDF :3299157.7/34

Out: 0.007+/-0.000 χ^2/NDF :4004848.9/38

All: 0.007+/-0.000 χ^2/NDF : 7310617.4/73

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 $\chi^2/\text{NDF}: 339383872.4/16$

Left Out: -0.809 ± 0.000 $\chi^2/\text{NDF}: 1081657273.6/19$

Right Out: -0.379 ± 0.000 $\chi^2/\text{NDF}: 268621179.0/18$

Left In: -0.818 ± 0.000 $\chi^2/\text{NDF}: 917797243.4/17$

Left: -0.814 ± 0.000 $\chi^2/\text{NDF}: 1999531606.2/37$

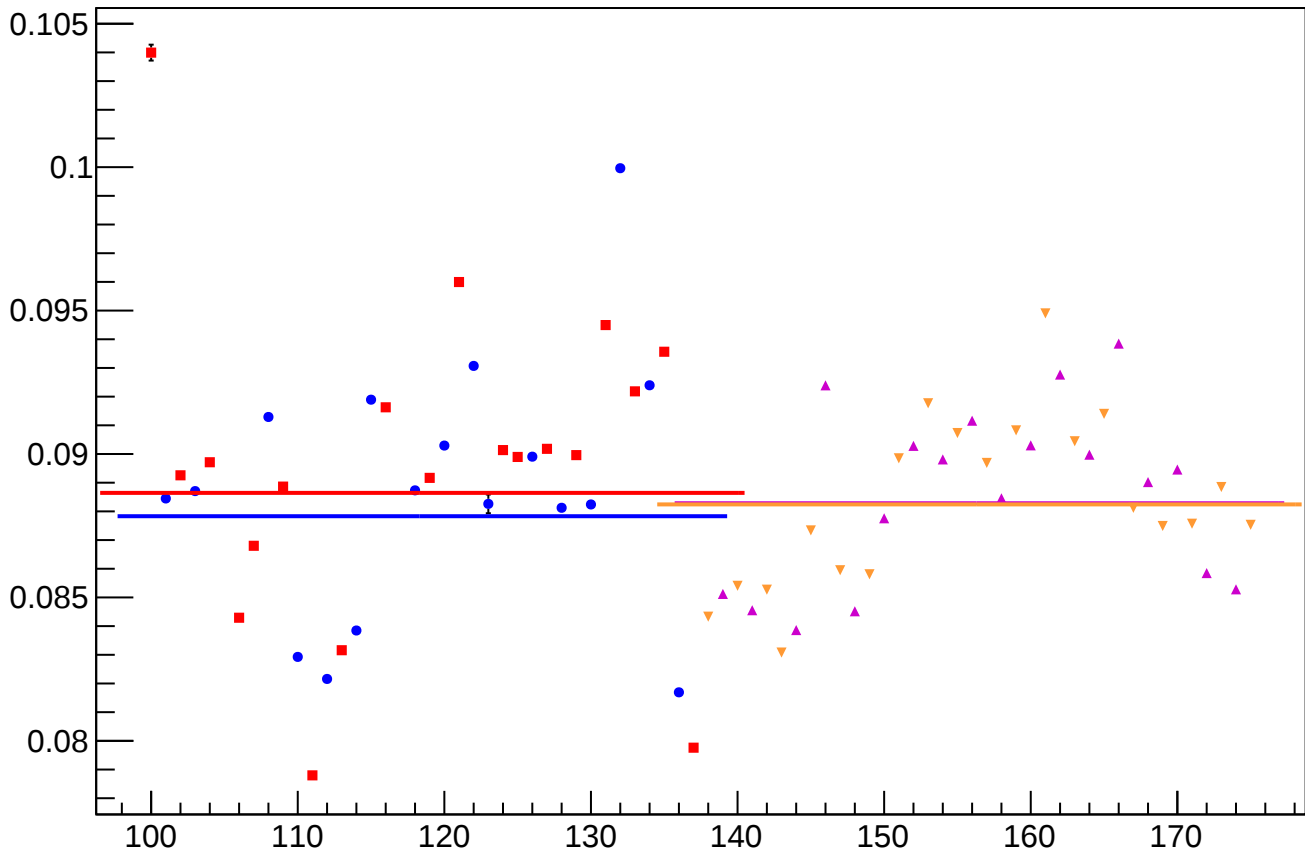
Right: -0.448 ± 0.000 $\chi^2/\text{NDF}: 616632603.2/35$

In: -0.720 ± 0.000 $\chi^2/\text{NDF}: 1309280286.4/34$

Out: -0.672 ± 0.000 $\chi^2/\text{NDF}: 1463645317.2/38$

All: -0.695 ± 0.000 $\chi^2/\text{NDF}: 2776113467.2/77$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 34954.4/16

Left Out: 0.088+/-0.000 χ^2/NDF :29794.3/19

Right Out: 0.089+/-0.000 χ^2/NDF : 39722.9/18

Left In: 0.088+/-0.000 χ^2/NDF :31008.8/17

Left: 0.088+/-0.000 χ^2/NDF : 60806.2/37

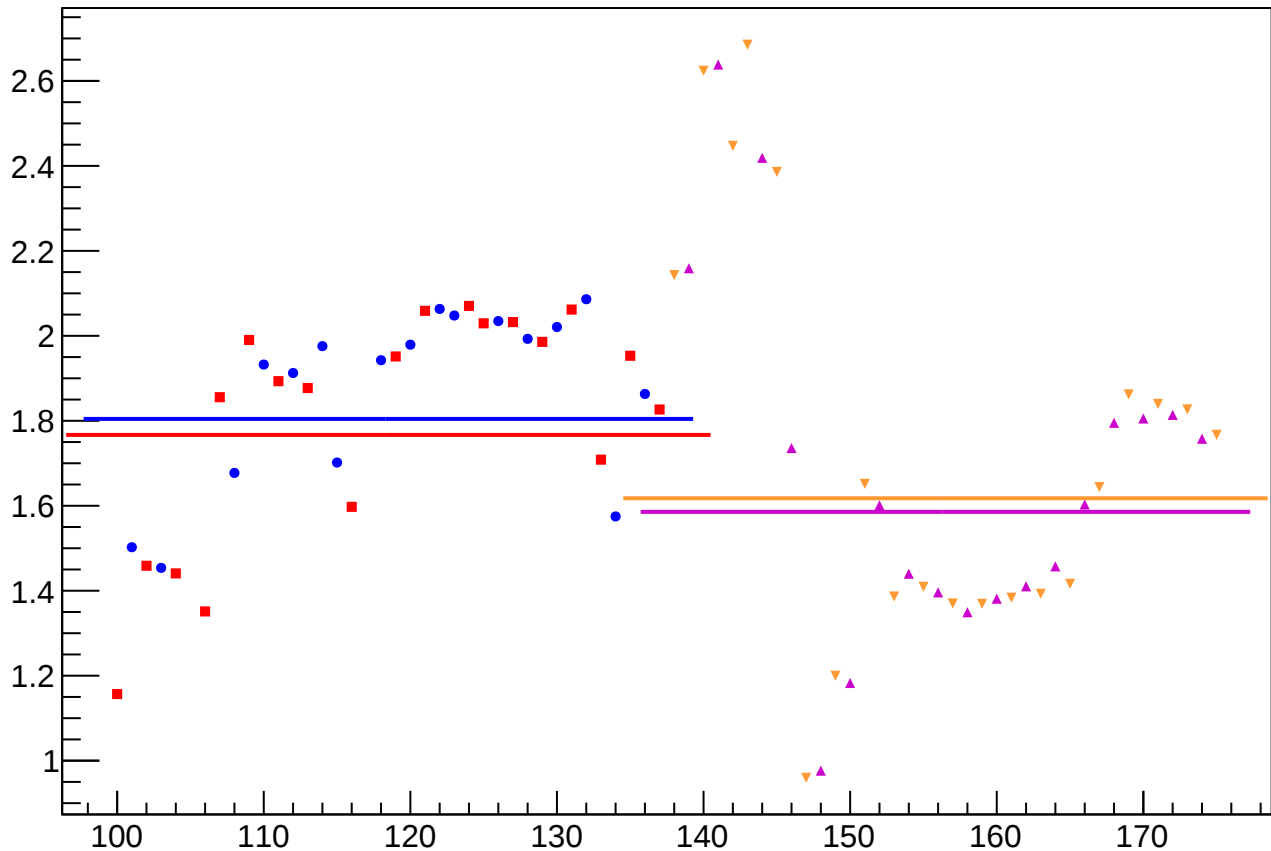
Right: 0.088+/-0.000 χ^2/NDF : 75262.5/35

In: 0.088+/-0.000 χ^2/NDF :66201.5/34

Out: 0.088+/-0.000 χ^2/NDF :69715.4/38

All: 0.088+/-0.000 χ^2/NDF : 136069.4/73

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156747883.2/16

Left Out: 1.618 $\pm$ 0.000 χ^2 /NDF: 25281612424.1/19

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1709259284.5/18

Left In: 1.586 $\pm$ 0.000 χ^2 /NDF: 19504743531.7/17

Left: 1.602 $\pm$ 0.000 χ^2 /NDF: 44872929689.0/37

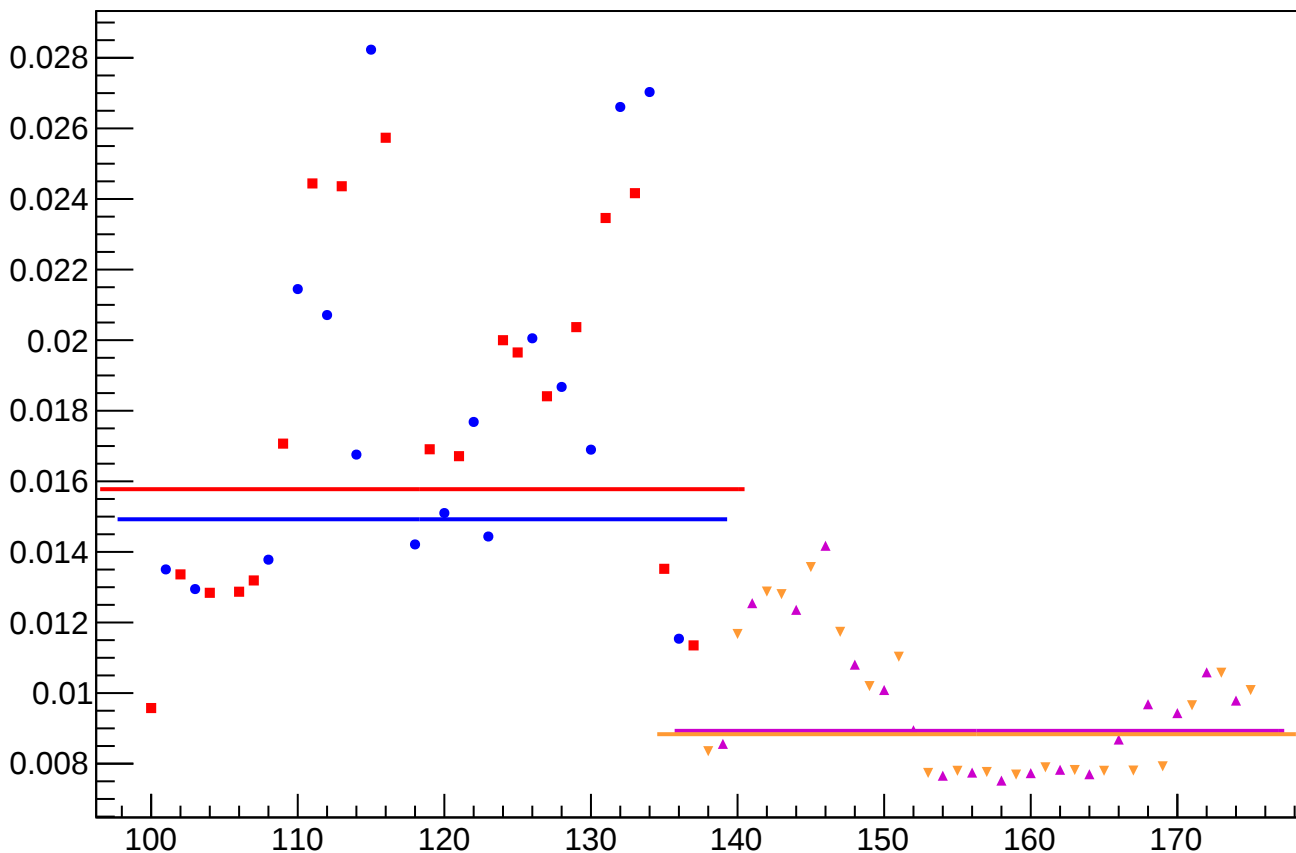
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2883751688.5/35

In: 1.616 $\pm$ 0.000 χ^2 /NDF: 21726782565.0/34

Out: 1.636 $\pm$ 0.000 χ^2 /NDF: 27465170040.5/38

All: 1.626 $\pm$ 0.000 χ^2 /NDF: 49229324954.5/71

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 643651.9/16

Left Out: 0.009+/-0.000 χ^2/NDF :925277.0/19

Right Out: 0.016+/-0.000 χ^2/NDF : 786107.1/18

Left In: 0.009+/-0.000 χ^2/NDF :791725.8/17

Left: 0.009+/-0.000 χ^2/NDF : 1718506.6/37

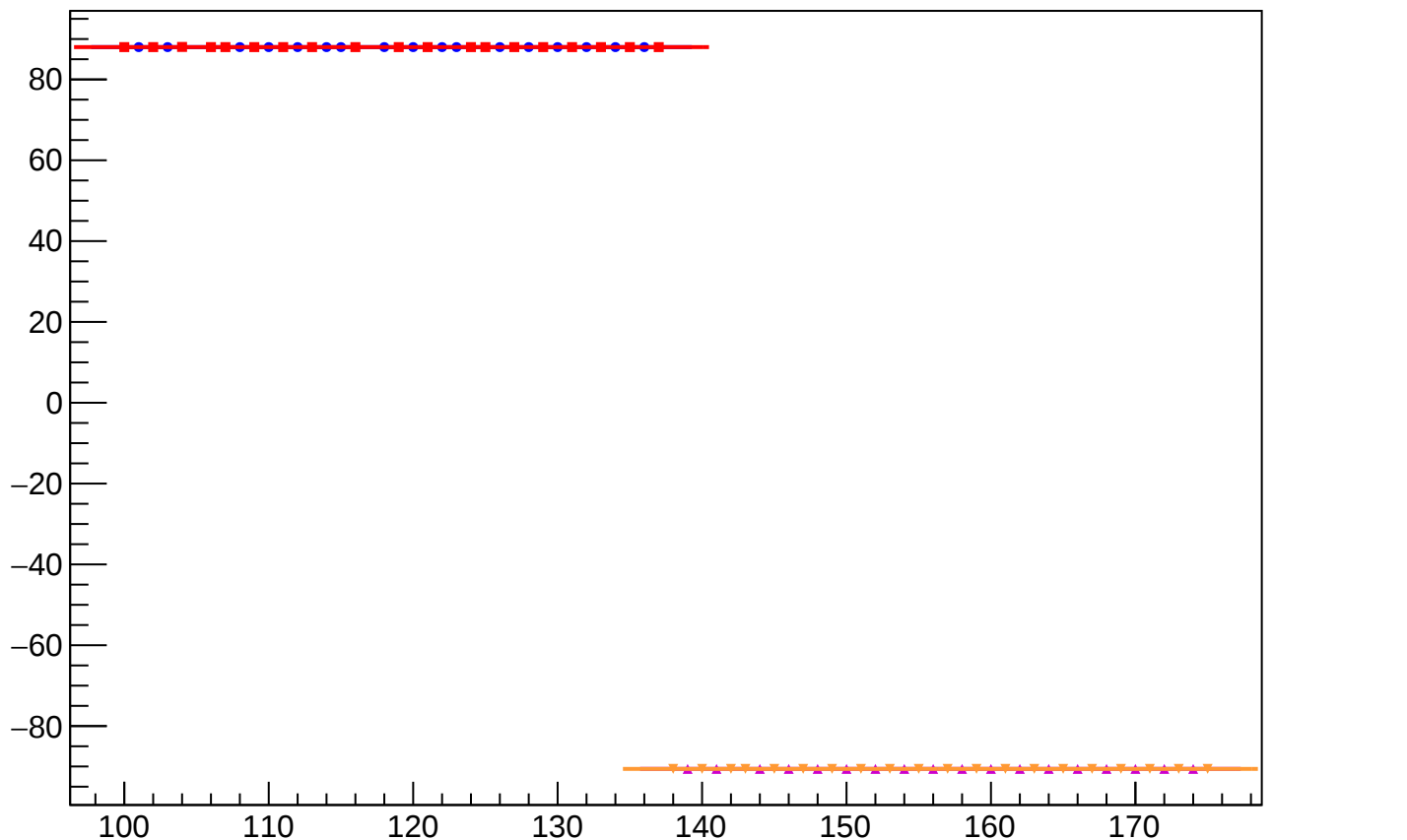
Right: 0.015+/-0.000 χ^2/NDF : 1447935.5/35

In: 0.010+/-0.000 χ^2/NDF :3034945.7/34

Out: 0.010+/-0.000 χ^2/NDF :3767403.4/38

All: 0.010+/-0.000 χ^2/NDF : 6803968.1/73

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1852068.7/16

Left Out: -90.599+/-0.000 χ^2/NDF : 5932032.1/19

Right Out: 88.004+/-0.000 χ^2/NDF : 77545892857504626270604886016.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 5440893.6/17

Left: -90.599+/-0.000 χ^2/NDF : 16112048.5/37

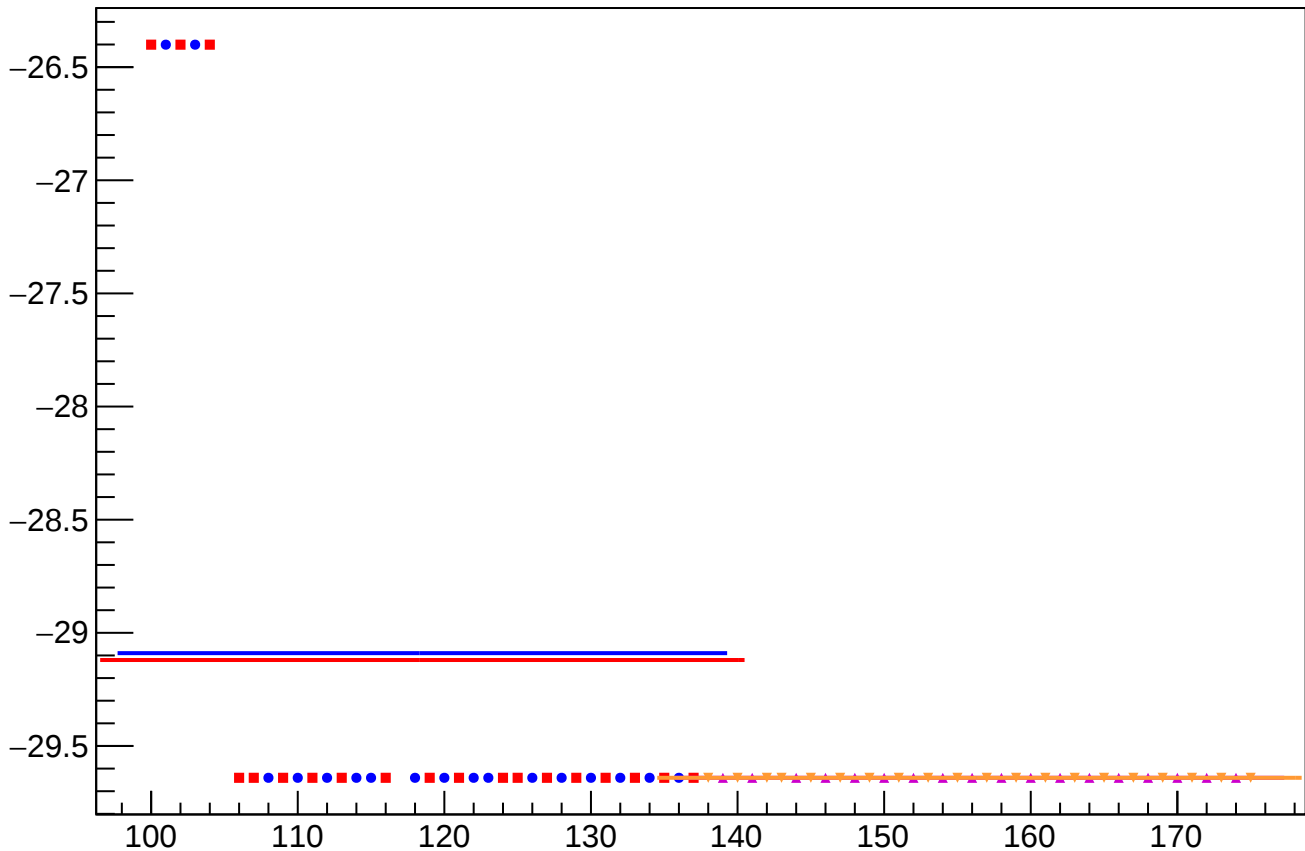
Right: 88.002+/-0.000 χ^2/NDF : 8043459440319720

In: -32.408+/-0.000 χ^2/NDF : 14924411534572750

Out: -33.868+/-0.000 χ^2/NDF : 1571543353009154

All: -33.161+/-0.000 χ^2/NDF : 306421889138

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.090+/-0.000

χ^2/NDF : 1028099246109521929793835198578688.0/16

Left Out: -29.641+/-0.000

χ^2/NDF : 226636.6/19

Right Out: -29.120+/-0.000

χ^2/NDF : 1022076578393359839206130891882496.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 155348.8/17

Left: -29.641+/-0.000 χ^2/NDF : 654502.1/37

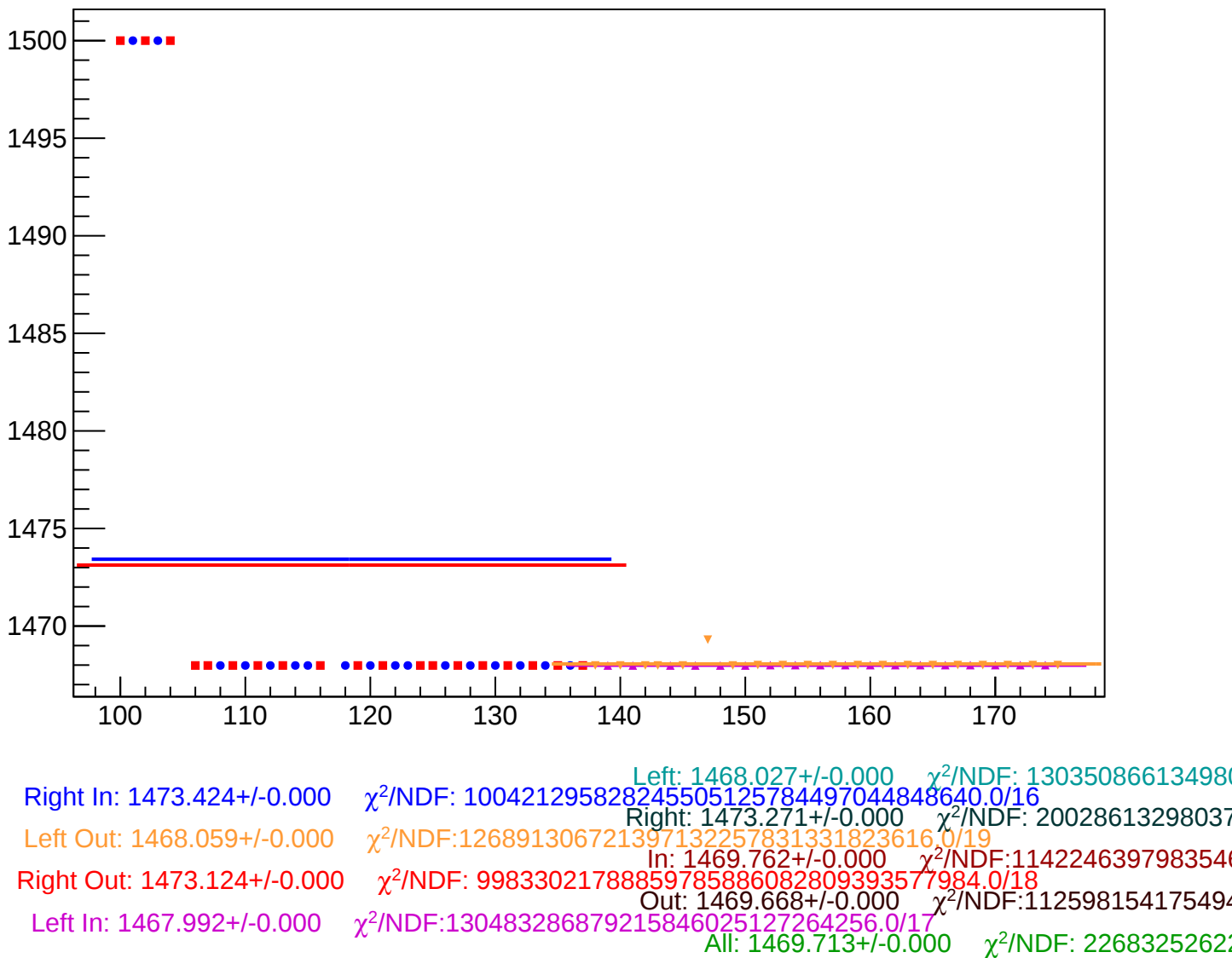
Right: -29.105+/-0.000 χ^2/NDF : 205050154576273.0/16

In: -29.461+/-0.000 χ^2/NDF : 11700930523943535.0/16

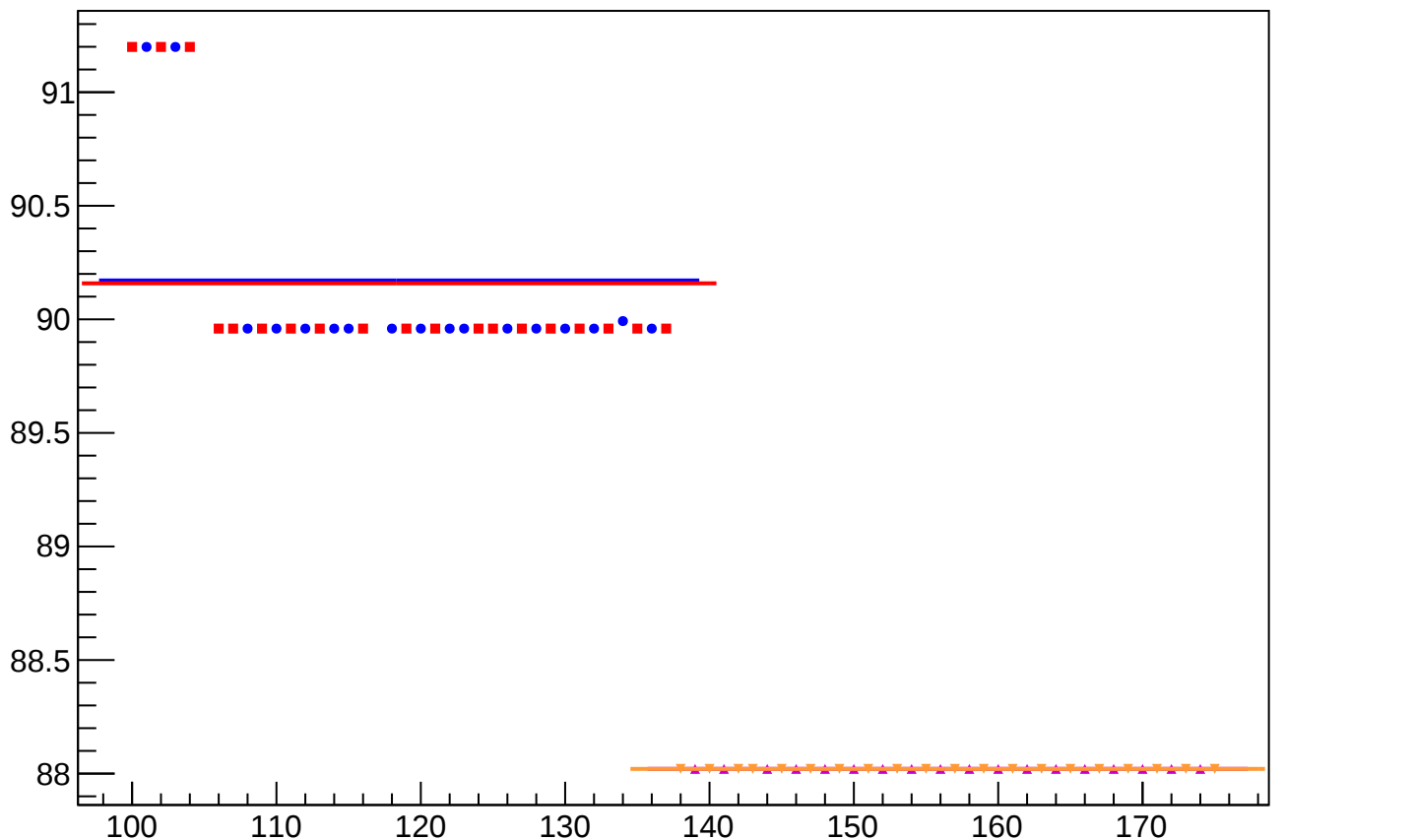
Out: -29.475+/-0.000 χ^2/NDF : 1155576546942343.0/16

All: -29.469+/-0.000 χ^2/NDF : 232588955021.0/16

epics_psub_pl_poss_mean vs Slug, Sign Corrected



epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.171+/-0.000

χ^2/NDF : 150316905454500935857801185460224.0/16

Left: 88.021+/-0.000 χ^2/NDF : 10207885.4/37

Right: 90.165+/-0.000 χ^2/NDF : 3000783518908113

Left Out: 88.021+/-0.000

χ^2/NDF : 4681163.7/19

In: 88.721+/-0.000 χ^2/NDF : 231395558519439172

Right Out: 90.159+/-0.000

χ^2/NDF : 149705165651000025160777180643328.0/18

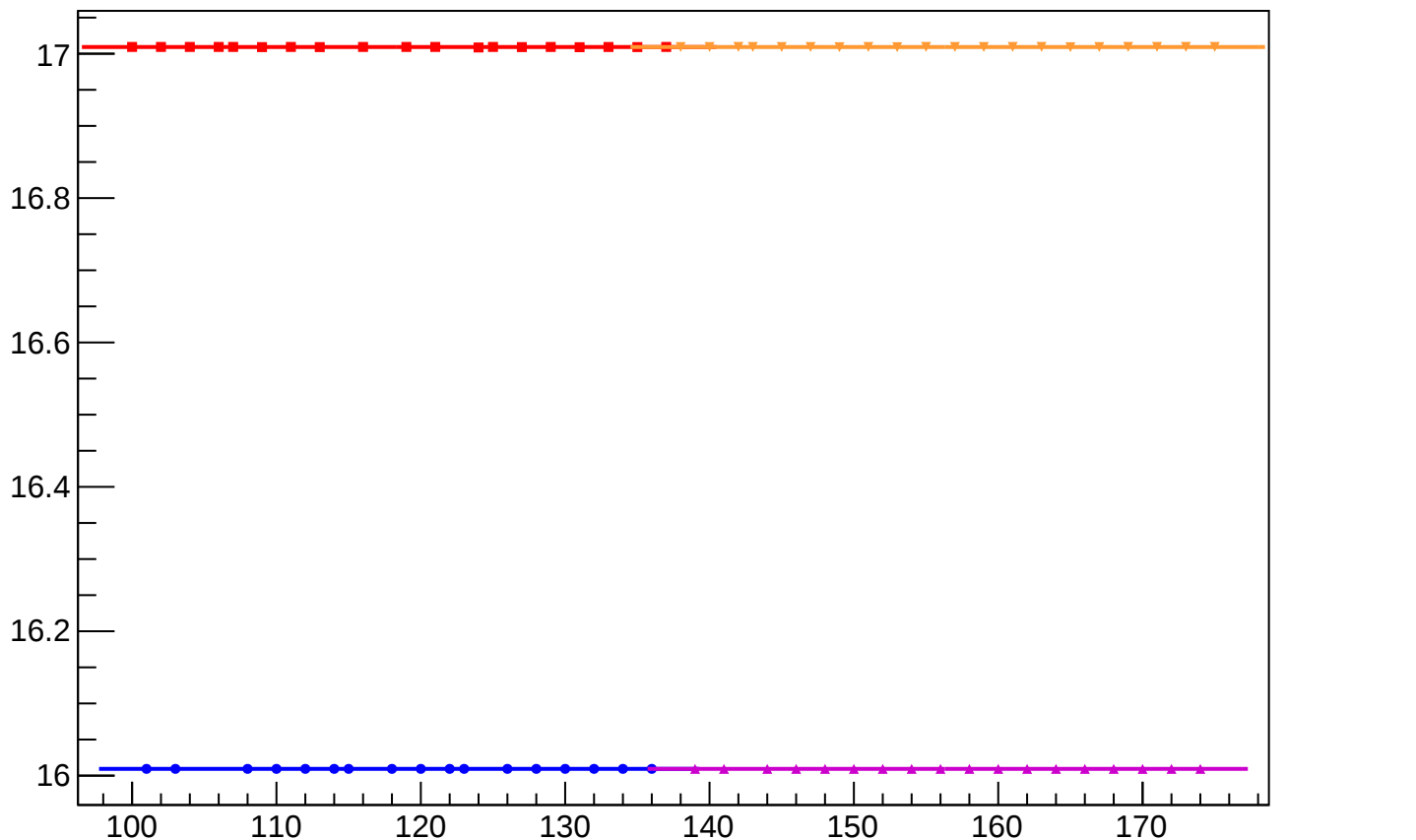
Out: 88.700+/-0.000 χ^2/NDF : 24013042843179550

Left In: 88.021+/-0.000

χ^2/NDF : 5327600.5/17

All: 88.710+/-0.000 χ^2/NDF : 4715772694531

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: 23069002005628370915688448.0/19

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 12516014336037541461884928.0/18

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 126455126442414377533440.0/17

Left: 16.527 $\pm$ 0.000 χ^2 /NDF: 69070653746581200

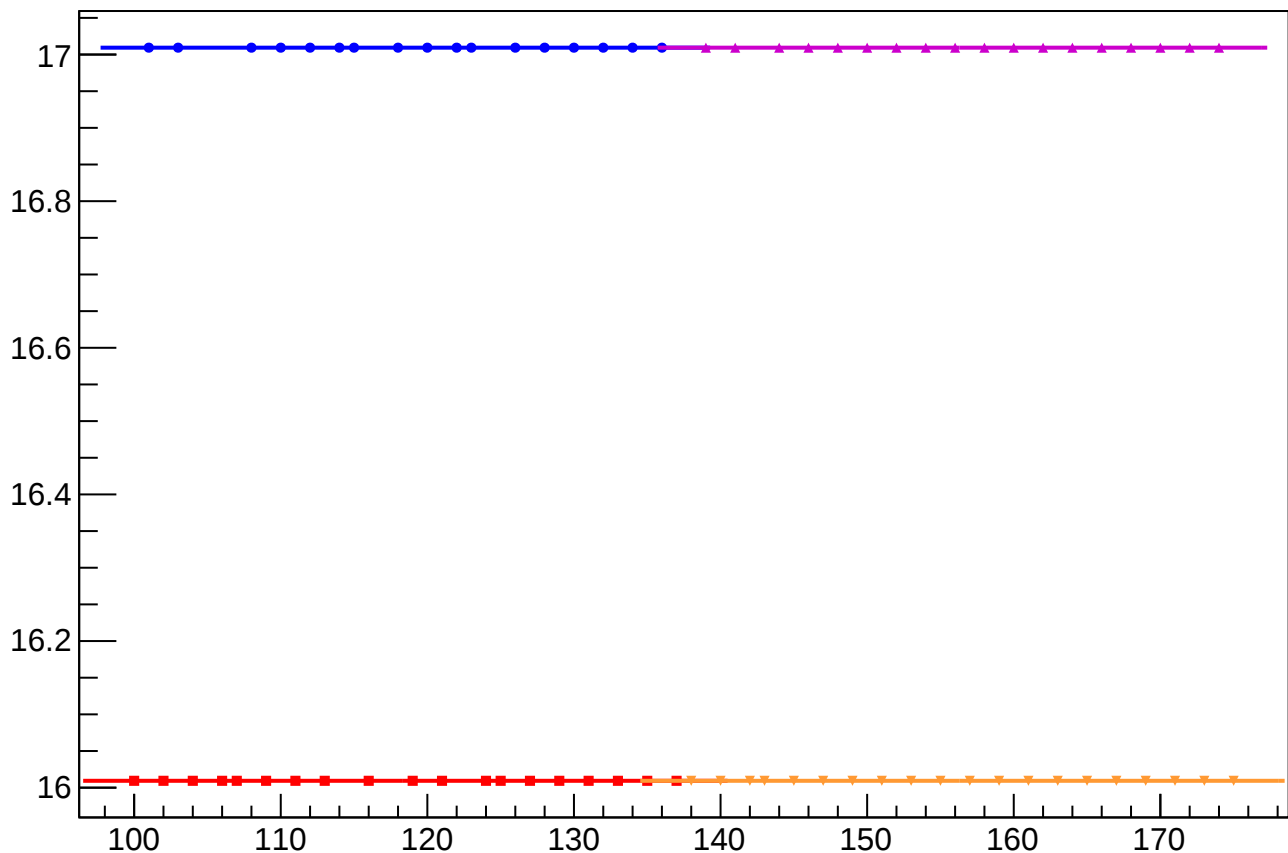
Right: 16.506 $\pm$ 0.000 χ^2 /NDF: 3289281212306816

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 128883087247605646

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 35885832342457930

All: 16.520 $\pm$ 0.000 χ^2 /NDF: 1020024687970

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 132629.6/16

Left Out: 16.009+/-0.000 χ^2/NDF : 91520.5/19

Right Out: 16.009+/-0.000 χ^2/NDF : 39518.8/18

Left In: 17.009+/-0.000 χ^2/NDF : 113587825185865722757120.0/17

Left: 16.488+/-0.000 χ^2/NDF : 73036913446976772

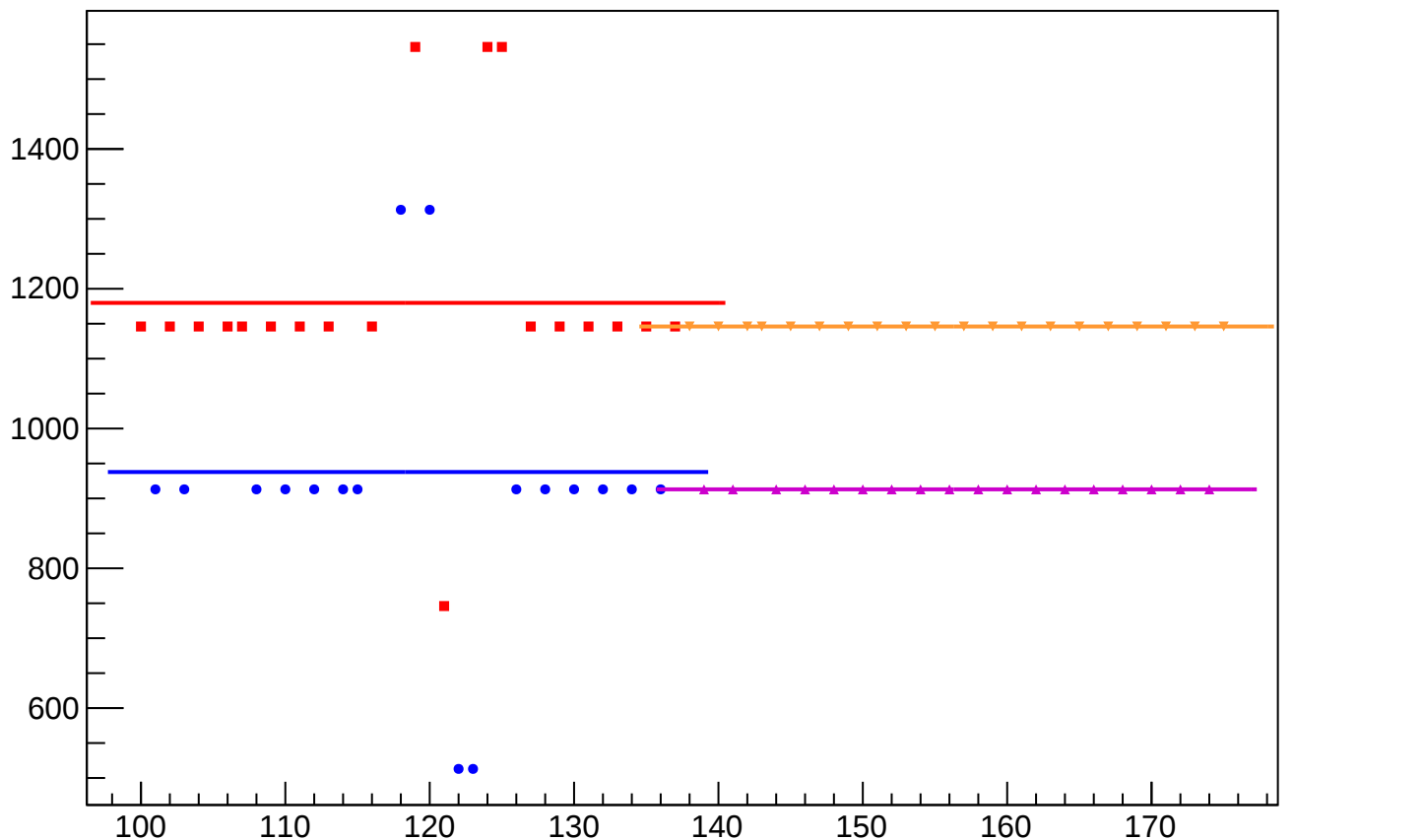
Right: 16.490+/-0.000 χ^2/NDF : 3437400145243126

In: 17.009+/-0.000 χ^2/NDF : 115827275049145194

Out: 16.009+/-0.000 χ^2/NDF : 288622.1/38

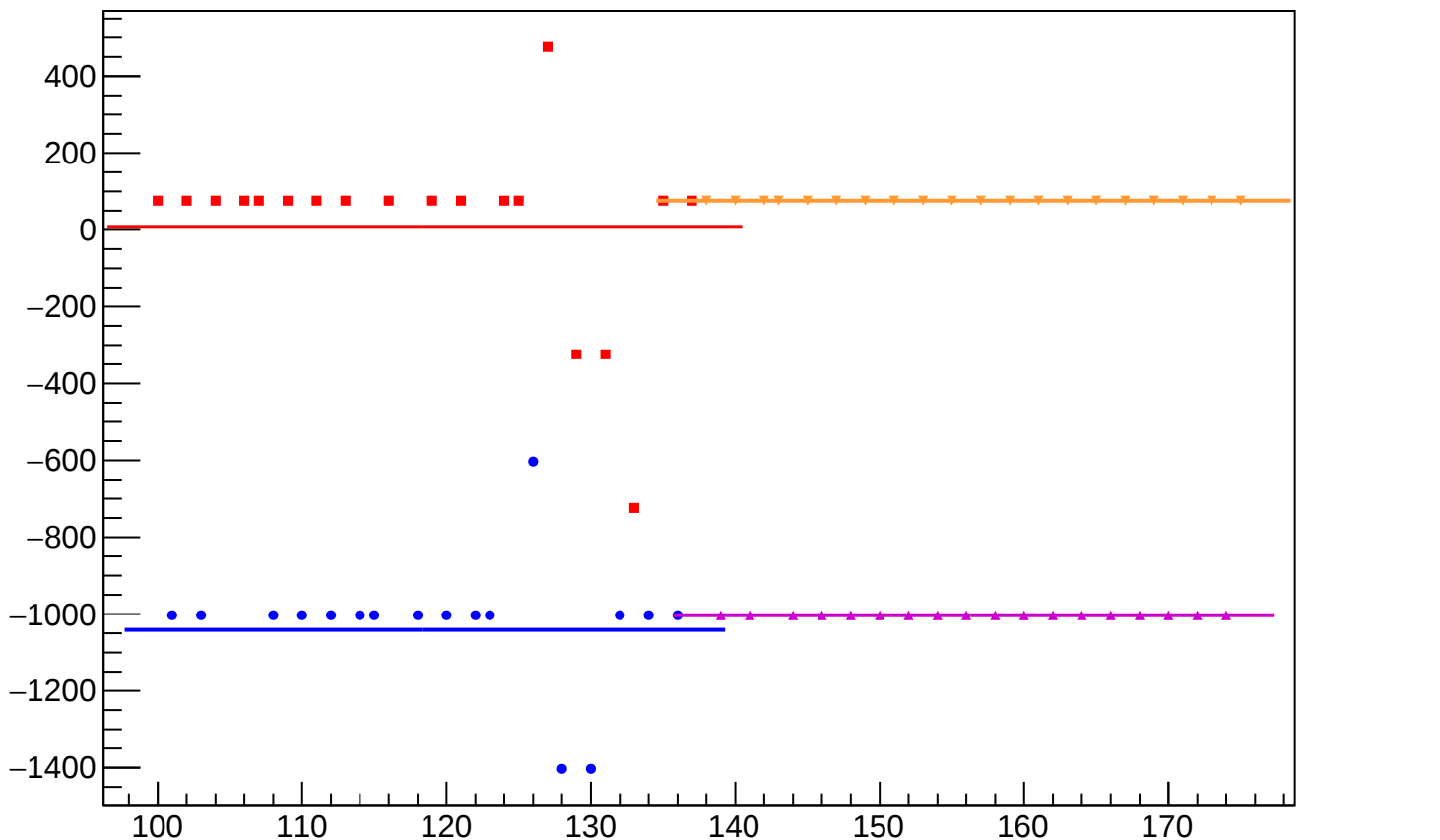
All: 16.488+/-0.000 χ^2/NDF : 1074114774165

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.779+/-0.000 χ^2/NDF : 20855047225839389243005638100272545792.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 4724563426576791584603373568.0/19
 Right Out: 1179.805+/-0.000 χ^2/NDF : 21416114436530132796905703778824486912.0/18
 Left In: 912.995+/-0.000 χ^2/NDF : 23594508916464591692795740160.0/17
 All: 1042.735+/-0.000 χ^2/NDF : 10419544841

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1041.030+/-0.000 χ^2/NDF : 22675401109943882512554797113855180800.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 10538331205992568207813115904.0/19
 Right Out: 7.865+/-0.000 χ^2/NDF : 43846919472163570410830042713366200320.0/18
 Left In: -1002.990+/-0.000 χ^2/NDF : 2219370687986647186473484288.0/17
 All: -463.138+/-0.000 χ^2/NDF : 13278159584