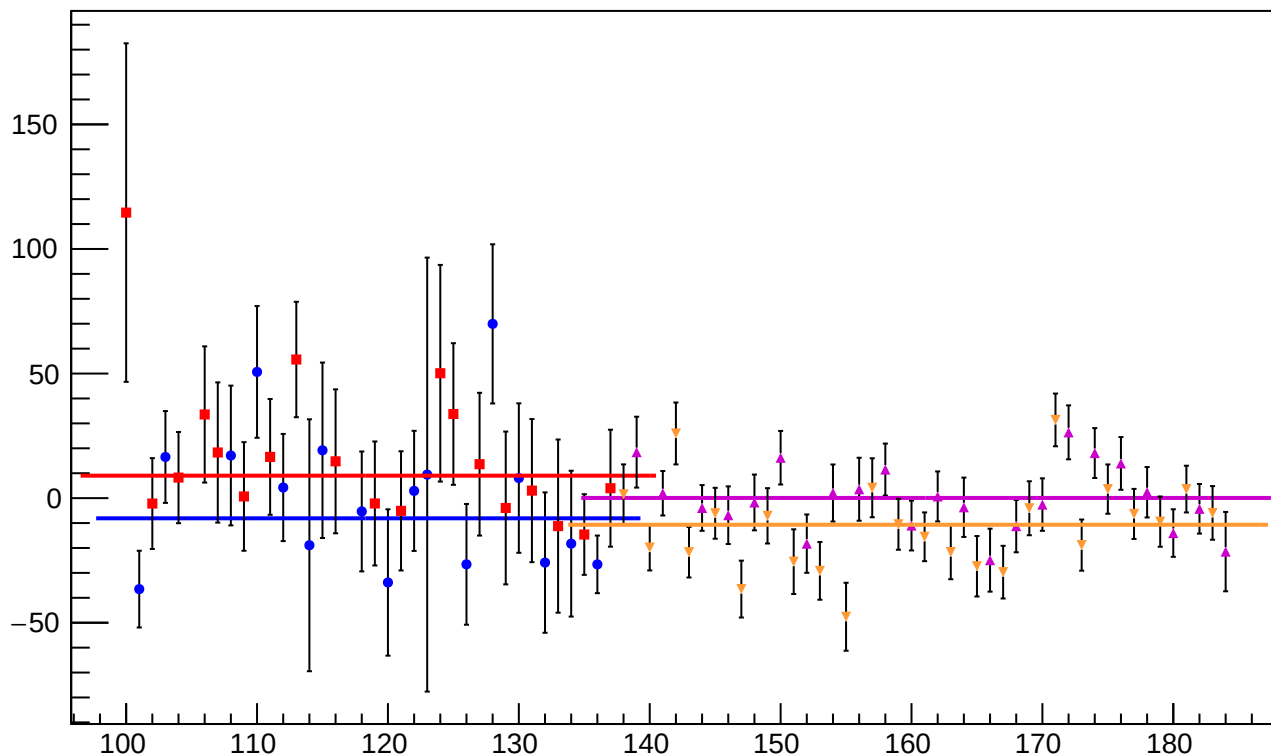


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.097 ± 5.619

$\chi^2/\text{NDF}: 22.9/16$

Left Out: -10.686 ± 2.196

$\chi^2/\text{NDF}: 58.1/23$

Right Out: 9.015 ± 5.687

$\chi^2/\text{NDF}: 13.0/18$

Left In: 0.080 ± 2.251

$\chi^2/\text{NDF}: 29.9/22$

Left: -5.435 ± 1.572

$\chi^2/\text{NDF}: 99.7/46$

Right: 0.356 ± 3.997

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

In: -1.050 ± 2.089

$\chi^2/\text{NDF}: 54.6/39$

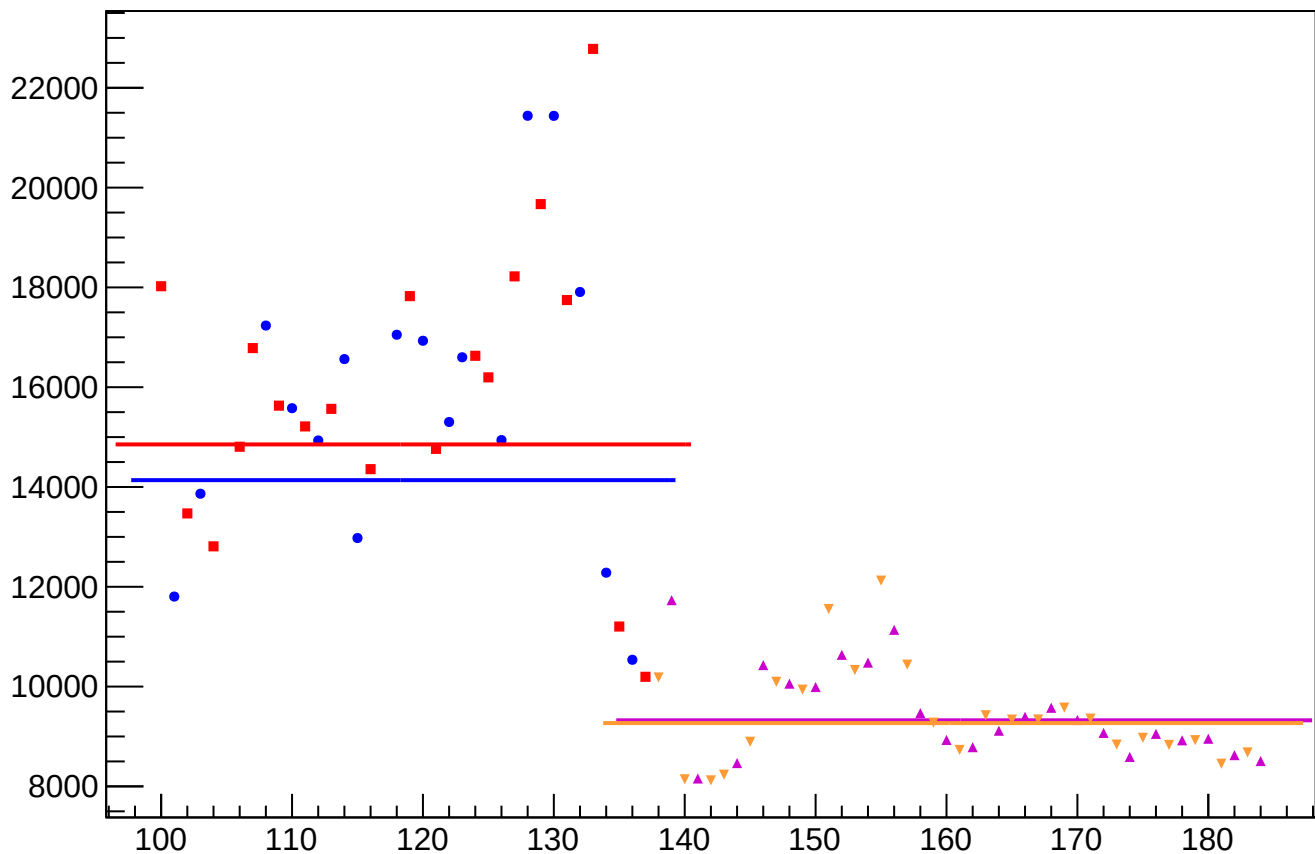
Out: -8.130 ± 2.048

$\chi^2/\text{NDF}: 81.6/42$

All: -4.660 ± 1.463

$\chi^2/\text{NDF}: 142.0/82$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14137.038 $\pm$ 3.974 χ^2 /NDF: 603041.9/16

Left Out: 9268.741 $\pm$ 1.553 χ^2 /NDF:327171.6/23

Right Out: 14853.365 $\pm$ 4.022 χ^2 /NDF: 473842.5/18

Left In: 9323.983 $\pm$ 1.591 χ^2 /NDF:275717.0/22

Left: 9295.683 $\pm$ 1.111 χ^2 /NDF: 603506.0/46

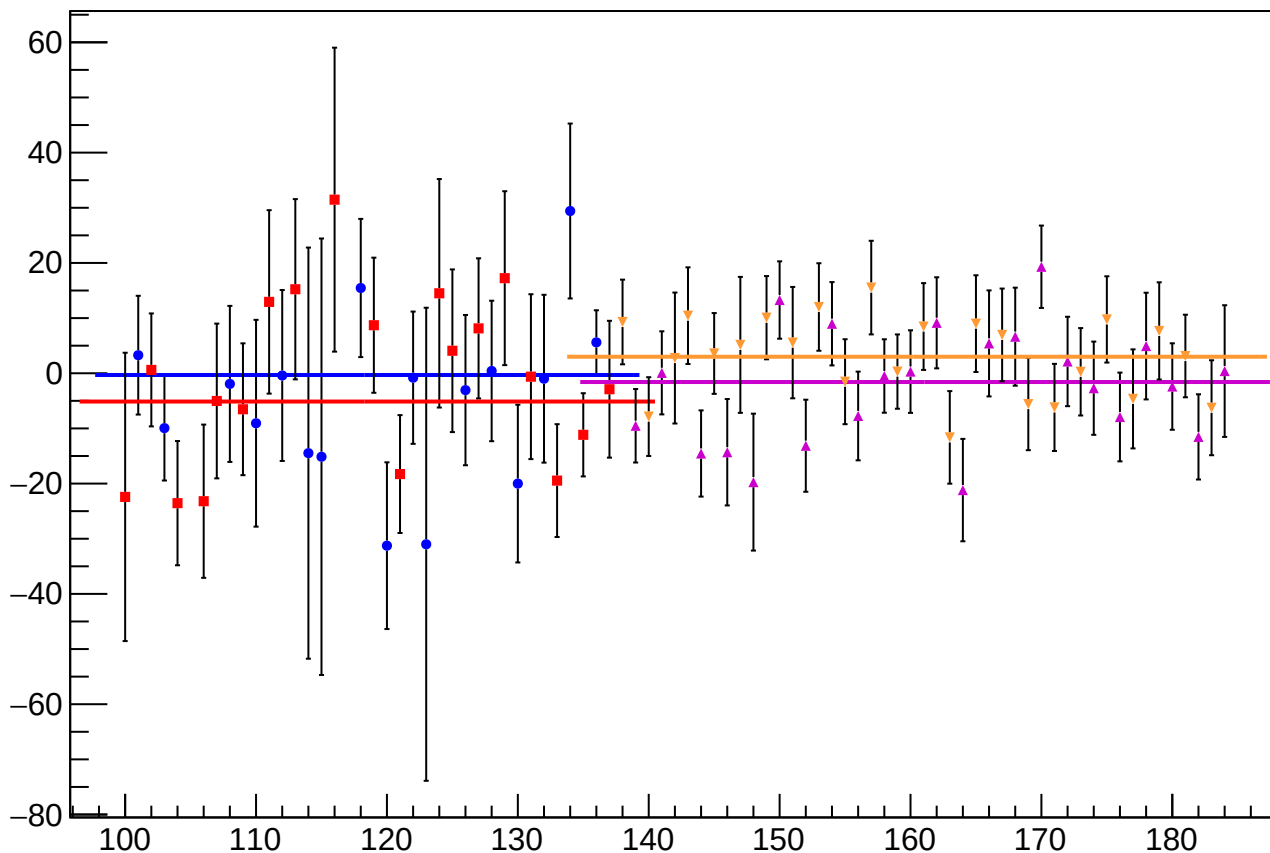
Right: 14490.905 $\pm$ 2.827 χ^2 /NDF: 1092938.6/35

In: 9989.252 $\pm$ 1.477 χ^2 /NDF:2143128.9/39

Out: 9993.239 $\pm$ 1.448 χ^2 /NDF:2479273.1/42

All: 9991.285 $\pm$ 1.034 χ^2 /NDF: 4622405.7/82

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.315 ± 3.077 χ^2/NDF : 14.4/16

Left Out: 2.997 ± 1.679 χ^2/NDF : 18.3/23

Right Out: -5.127 ± 2.942 χ^2/NDF : 19.5/18

Left In: -1.588 ± 1.703 χ^2/NDF : 35.5/22

Left: 0.737 ± 1.195 χ^2/NDF : 57.5/46

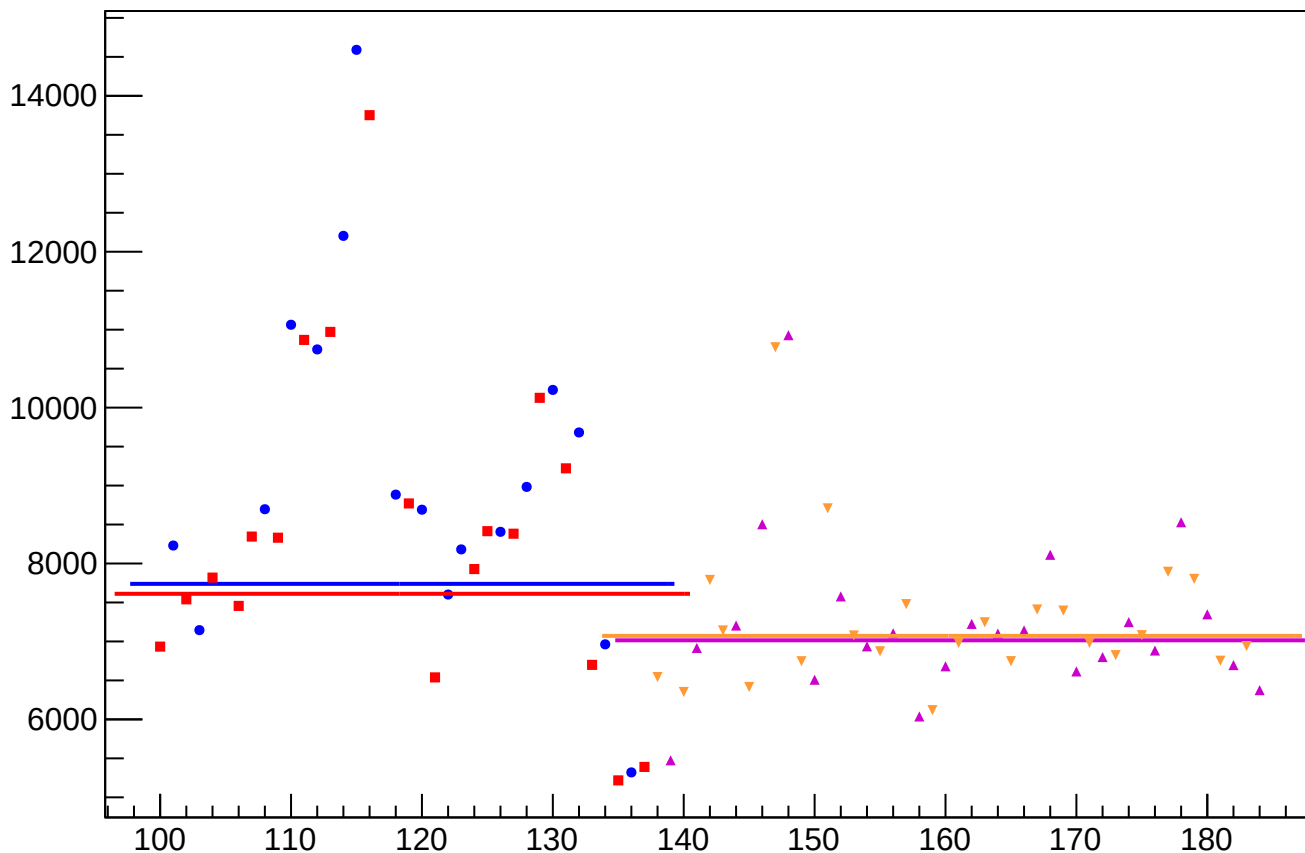
Right: -2.829 ± 2.126 χ^2/NDF : 35.3/35

In: -1.290 ± 1.490 χ^2/NDF : 50.1/39

Out: 1.002 ± 1.458 χ^2/NDF : 43.6/42

All: -0.120 ± 1.042 χ^2/NDF : 94.9/82

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7738.934+/-2.176 χ^2/NDF : 740969.1/16

Left Out: 7071.480+/-1.187 χ^2/NDF : 383018.8/23

Right Out: 7611.390+/-2.080 χ^2/NDF : 683263.4/18

Left In: 7014.572+/-1.204 χ^2/NDF : 525313.7/22

Left: 7043.424+/-0.845 χ^2/NDF : 909465.3/46

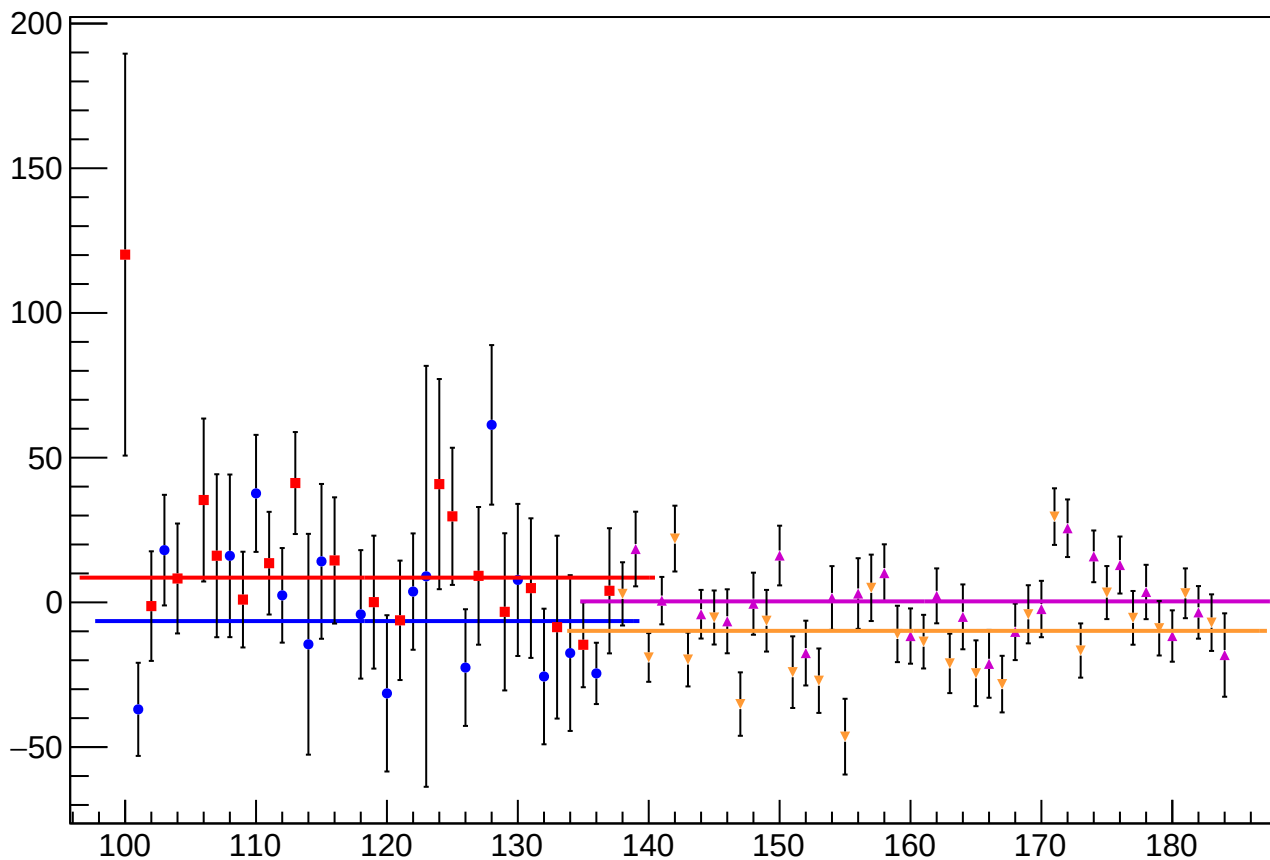
Right: 7672.308+/-1.504 χ^2/NDF : 1426027.8/35

In: 7184.379+/-1.053 χ^2/NDF : 1351147.1/39

Out: 7204.111+/-1.031 χ^2/NDF : 1117090.7/42

All: 7194.456+/-0.737 χ^2/NDF : 2468417.0/82

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.463±/5.029 χ^2/NDF : 23.5/16

Left Out: -9.841±/2.046 χ^2/NDF : 58.8/23

Right Out: 8.548±/5.009 χ^2/NDF : 12.9/18

Left In: 0.344±/2.100 χ^2/NDF : 29.9/22

Left: -4.882±/1.466 χ^2/NDF : 100.8/46

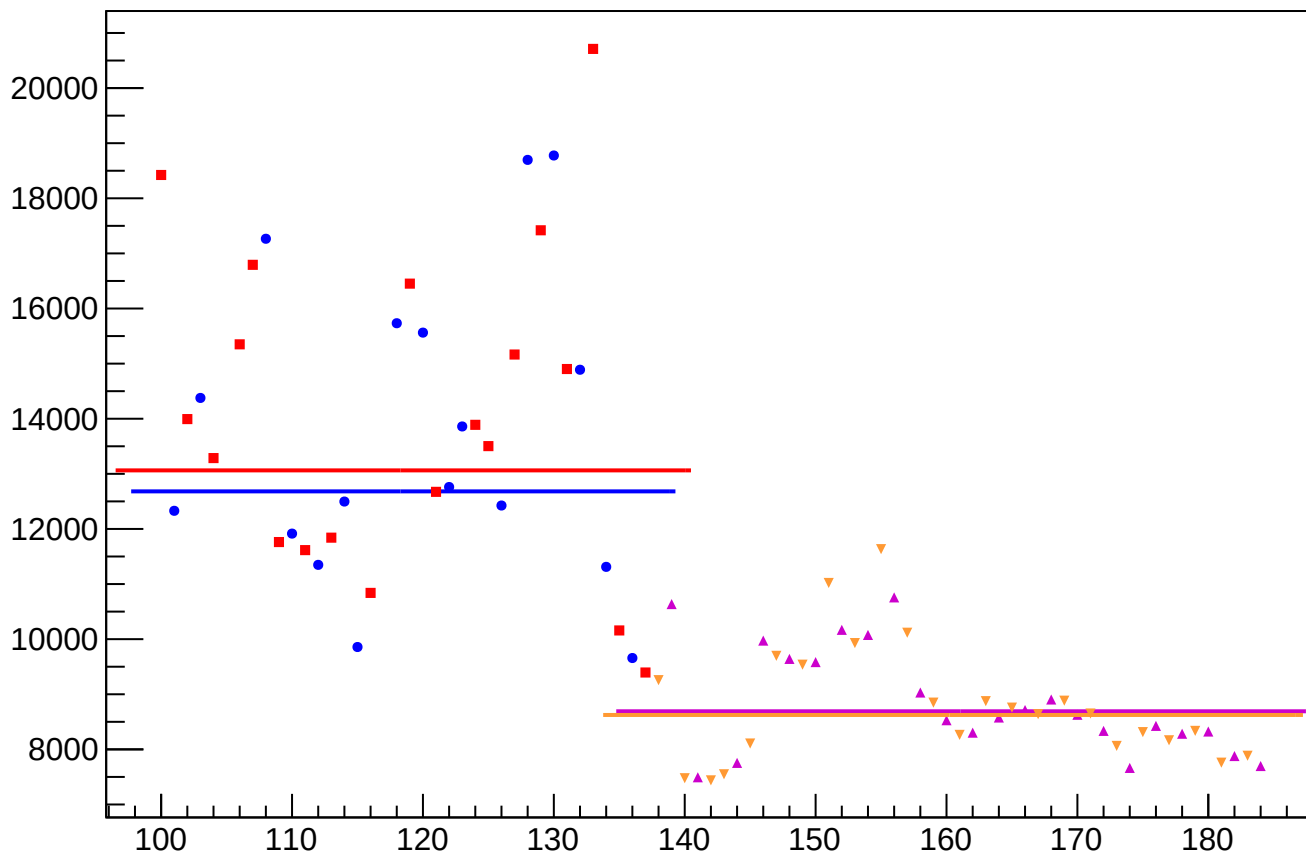
Right: 1.072±/3.549 χ^2/NDF : 40.9/35

In: -0.667±/1.938 χ^2/NDF : 55.0/39

Out: -7.211±/1.894 χ^2/NDF : 83.3/42

All: -4.014±/1.355 χ^2/NDF : 144.1/82

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12681.868 $\pm$ 3.556 χ^2 /NDF: 558641.1/16

Left Out: 8624.476 $\pm$ 1.447 χ^2 /NDF: 429240.4/23

Right Out: 13062.676 $\pm$ 3.542 χ^2 /NDF: 499222.2/18

Left In: 8691.203 $\pm$ 1.485 χ^2 /NDF: 365254.6/22

Left: 8656.968 $\pm$ 1.036 χ^2 /NDF: 795530.4/46

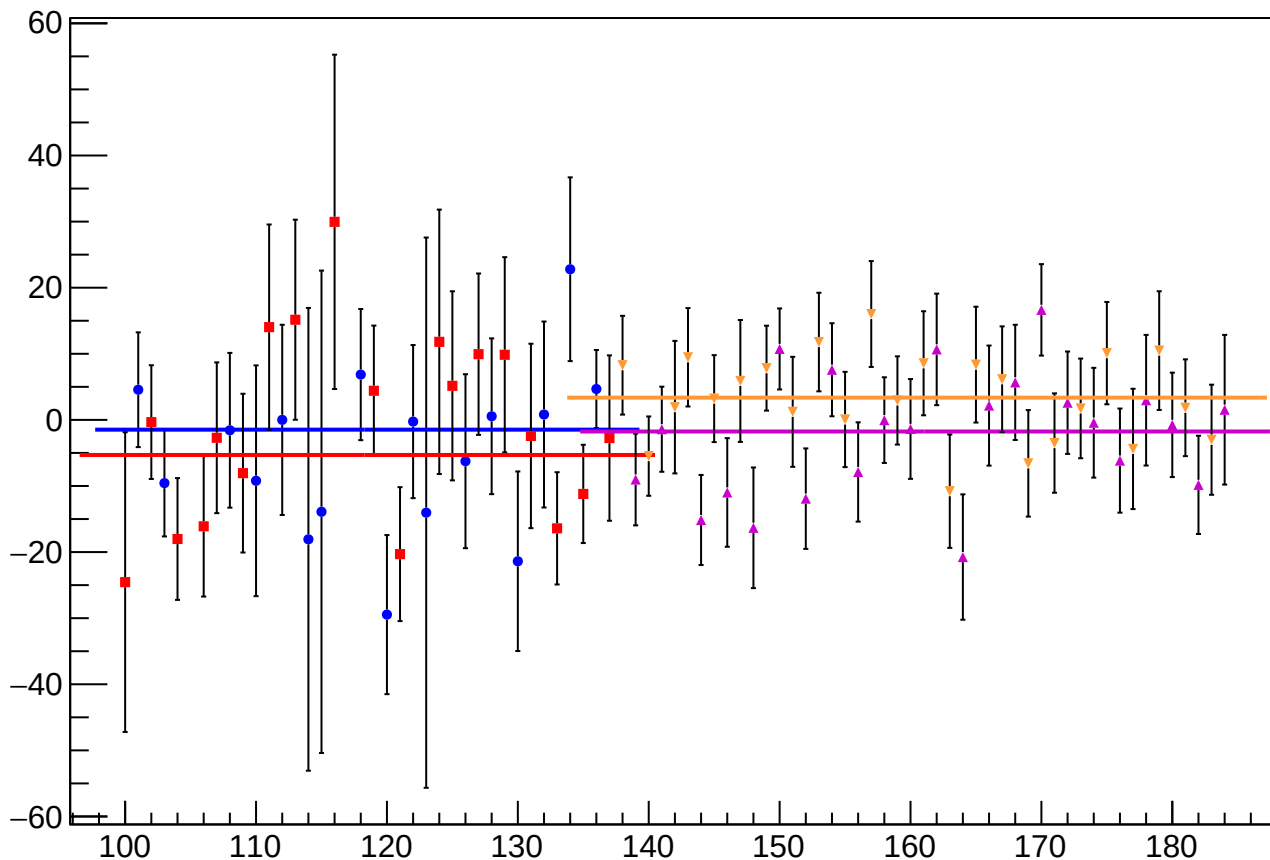
Right: 12873.023 $\pm$ 2.509 χ^2 /NDF: 1063620.9/35

In: 9284.076 $\pm$ 1.371 χ^2 /NDF: 1996385.7/39

Out: 9259.311 $\pm$ 1.339 χ^2 /NDF: 2274168.6/42

All: 9271.410 $\pm$ 0.958 χ^2 /NDF: 4270721.2/82

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.477 ± 2.795 χ^2/NDF : 14.7/16

Left Out: 3.366 ± 1.570 χ^2/NDF : 16.7/23

Right Out: -5.307 ± 2.645 χ^2/NDF : 18.9/18

Left In: -1.756 ± 1.607 χ^2/NDF : 33.5/22

Left: 0.865 ± 1.123 χ^2/NDF : 55.4/46

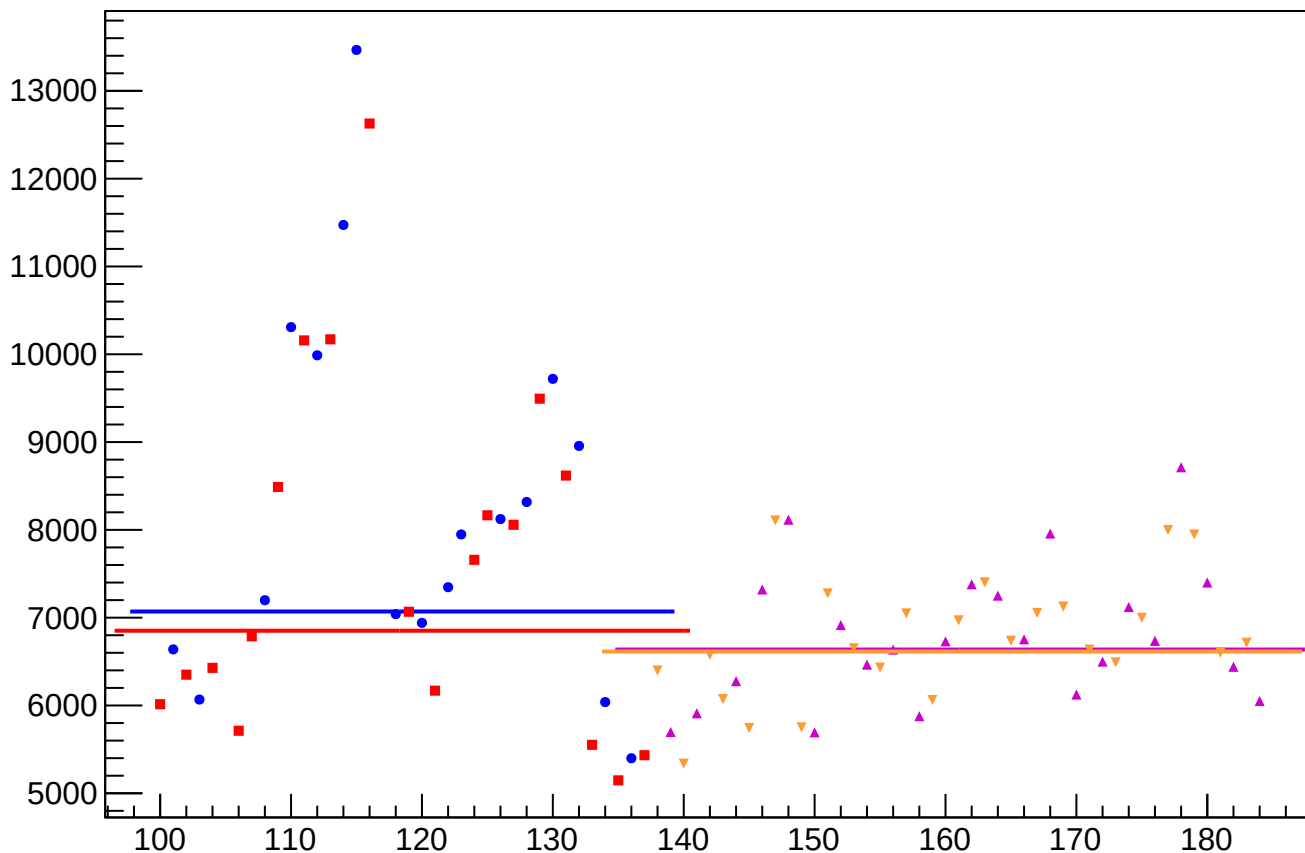
Right: -3.498 ± 1.921 χ^2/NDF : 34.6/35

In: -1.687 ± 1.393 χ^2/NDF : 48.3/39

Out: 1.106 ± 1.350 χ^2/NDF : 43.5/42

All: -0.246 ± 0.969 χ^2/NDF : 93.8/82

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7070.220 $\pm$ 1.977 χ^2/NDF : 600878.1/16

Left Out: 6614.428 $\pm$ 1.110 χ^2/NDF : 391368.0/23

Right Out: 6851.593 $\pm$ 1.870 χ^2/NDF : 688585.4/18

Left In: 6637.155 $\pm$ 1.136 χ^2/NDF : 415547.5/22

Left: 6625.526 $\pm$ 0.794 χ^2/NDF : 807120.3/46

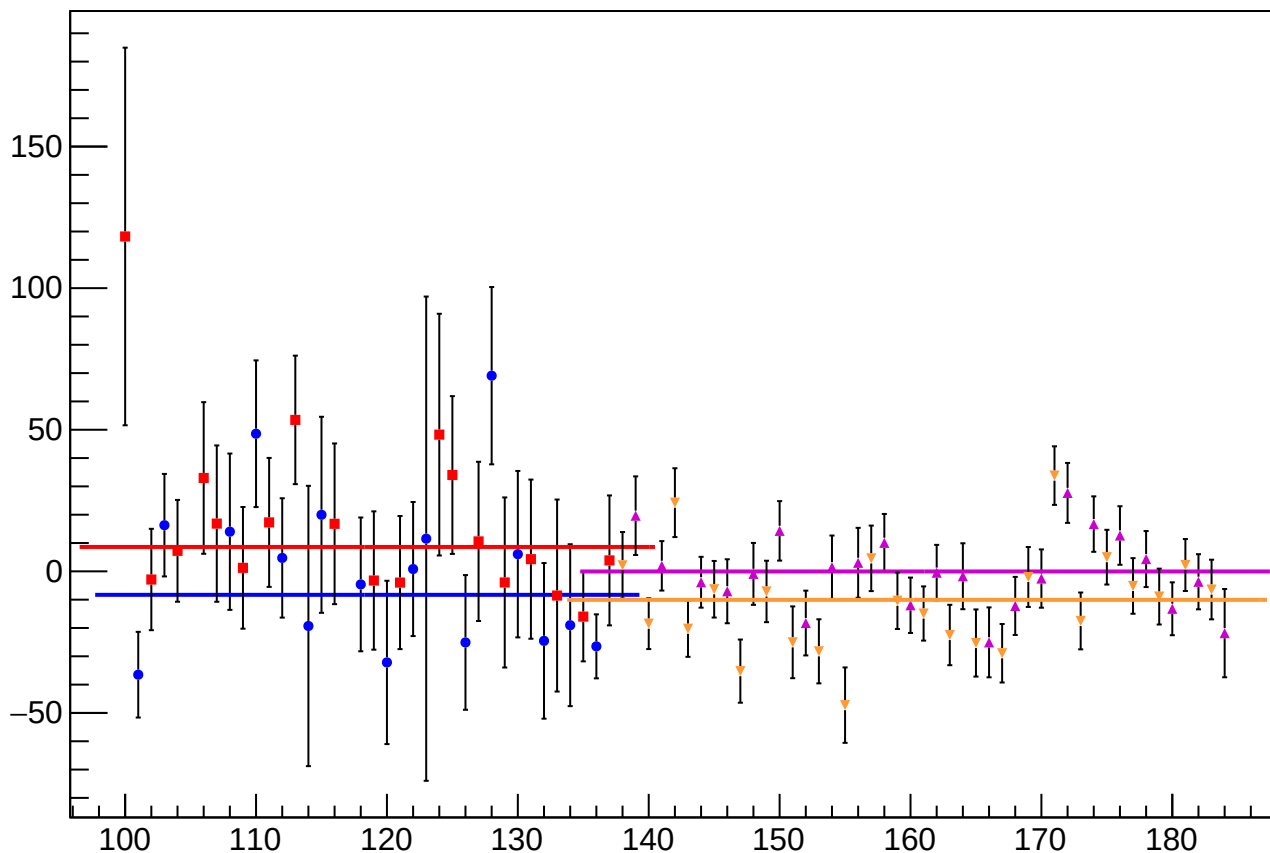
Right: 6954.858 $\pm$ 1.358 χ^2/NDF : 1295919.6/35

In: 6744.736 $\pm$ 0.985 χ^2/NDF : 1052507.4/39

Out: 6676.224 $\pm$ 0.955 χ^2/NDF : 1091847.2/42

All: 6709.400 $\pm$ 0.686 χ^2/NDF : 2146849.1/82

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.291 ± 5.508 χ^2/NDF : 22.7/16

Left Out: -10.067 ± 2.147 χ^2/NDF : 60.0/23

Right Out: 8.615 ± 5.576 χ^2/NDF : 13.4/18

Left In: -0.042 ± 2.200 χ^2/NDF : 30.8/22

Left: -5.178 ± 1.537 χ^2/NDF : 101.4/46

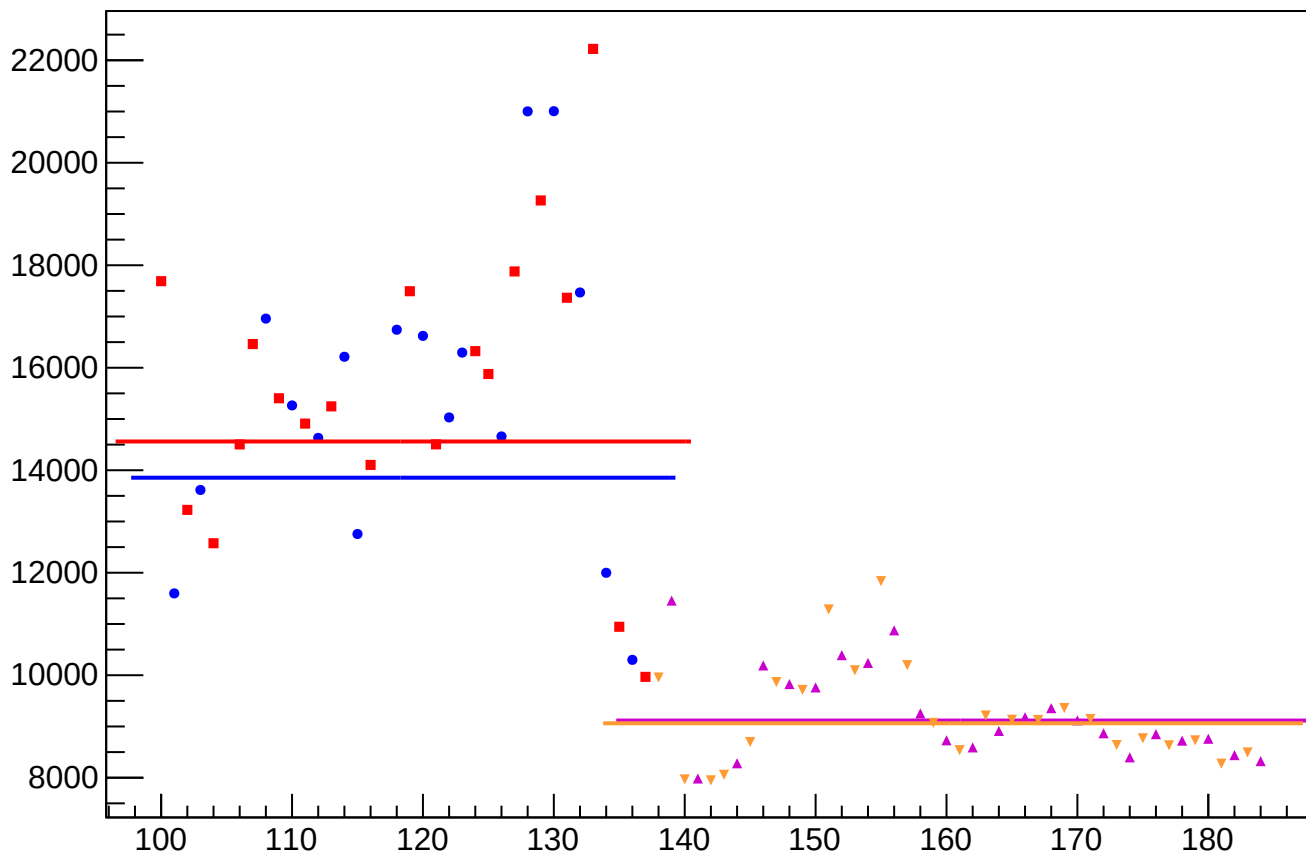
Right: 0.058 ± 3.918 χ^2/NDF : 40.8/35

In: -1.177 ± 2.043 χ^2/NDF : 55.4/39

Out: -7.655 ± 2.003 χ^2/NDF : 83.2/42

All: -4.480 ± 1.430 χ^2/NDF : 143.8/82

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13854.498 $\pm$ 3.895 χ^2/NDF : 606202.8/16

Left Out: 9062.230 $\pm$ 1.518 χ^2/NDF :323464.0/23

Right Out: 14561.025 $\pm$ 3.943 χ^2/NDF : 475761.5/18

Left In: 9115.817 $\pm$ 1.556 χ^2/NDF :272471.8/22

Left: 9088.365 $\pm$ 1.086 χ^2/NDF : 596543.6/46

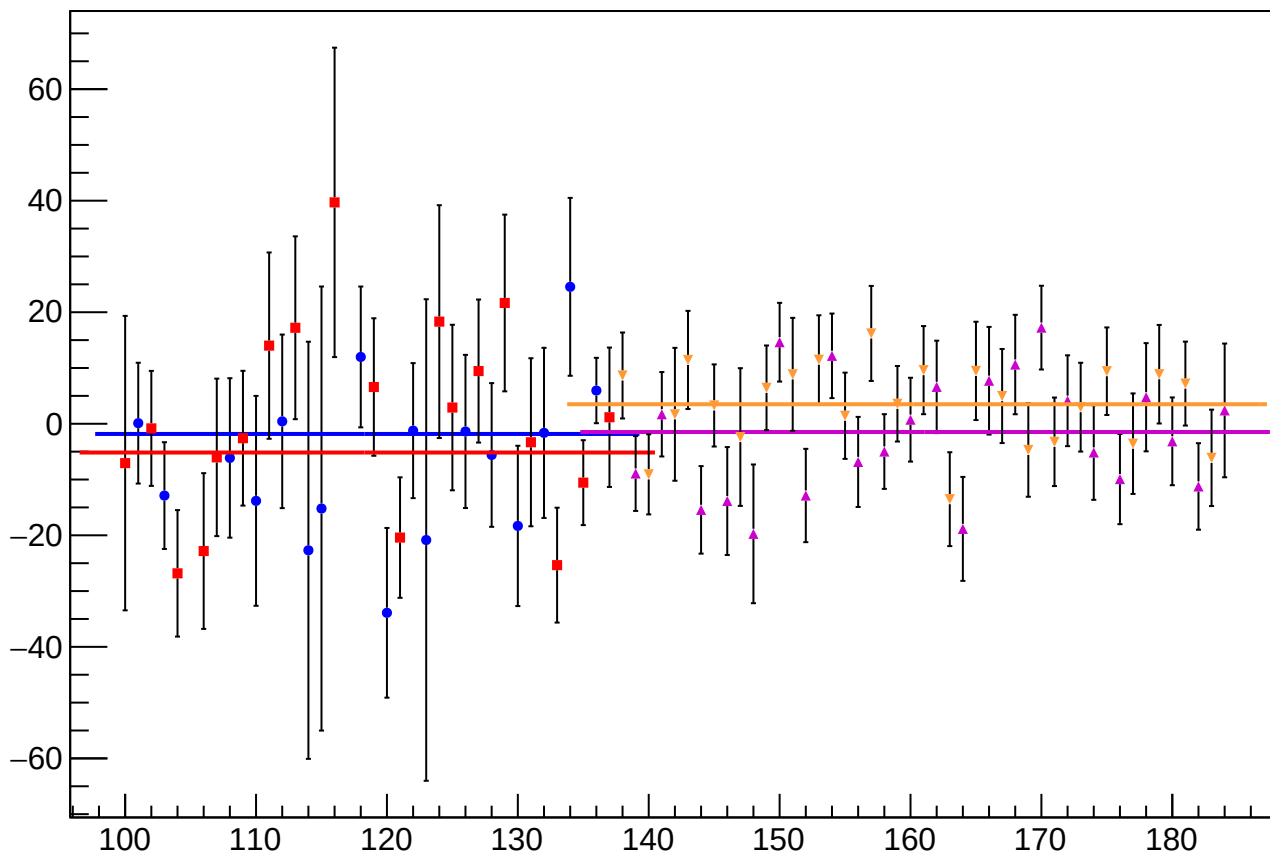
Right: 14203.439 $\pm$ 2.771 χ^2/NDF : 1098217.6/35

In: 9767.883 $\pm$ 1.445 χ^2/NDF :2155341.8/39

Out: 9772.118 $\pm$ 1.417 χ^2/NDF :2493299.9/42

All: 9770.042 $\pm$ 1.011 χ^2/NDF : 4648646.1/82

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.828 ± 3.100 χ^2/NDF : 14.0/16

Left Out: 3.502 ± 1.686 χ^2/NDF : 18.2/23

Right Out: -5.156 ± 2.965 χ^2/NDF : 24.5/18

Left In: -1.479 ± 1.710 χ^2/NDF : 36.7/22

Left: 1.046 ± 1.201 χ^2/NDF : 59.3/46

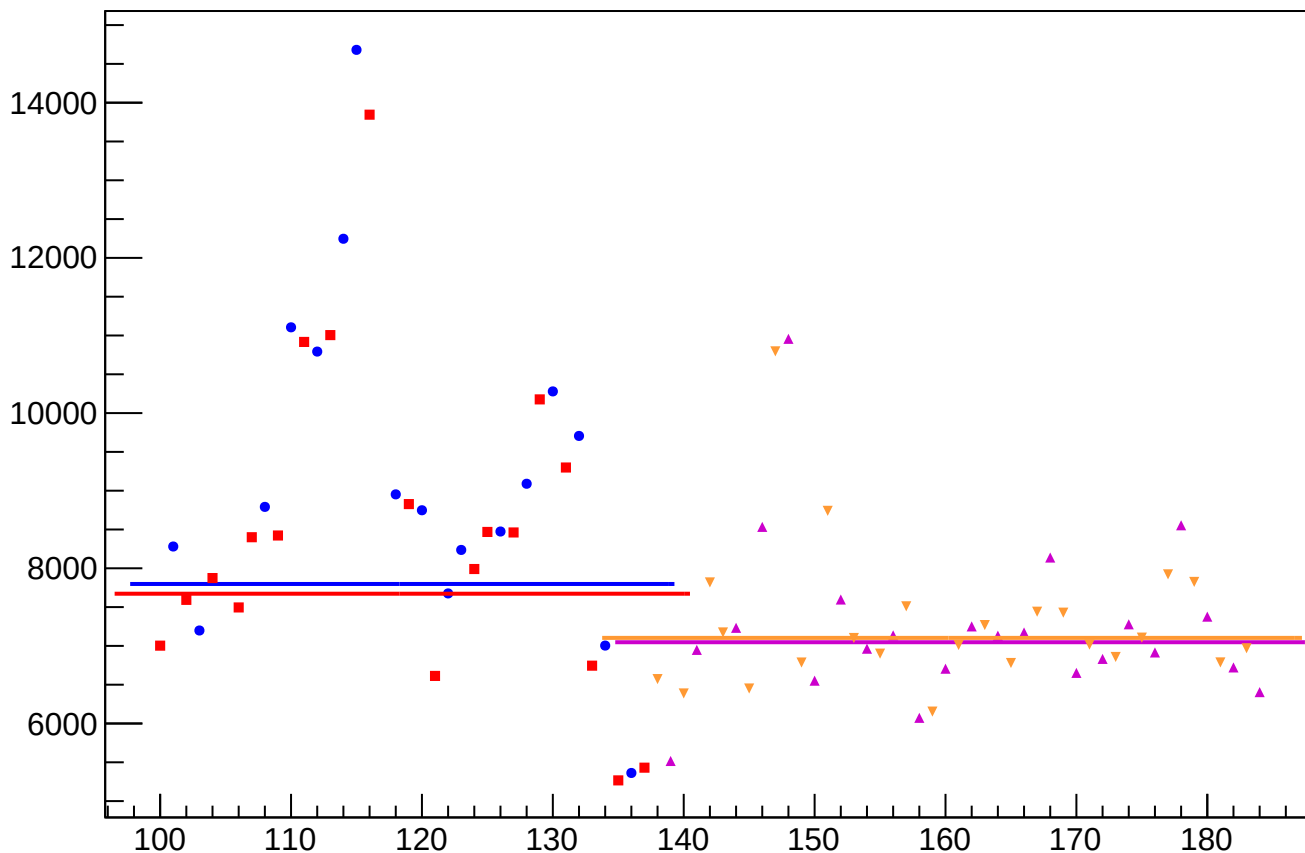
Right: -3.566 ± 2.142 χ^2/NDF : 39.2/35

In: -1.561 ± 1.497 χ^2/NDF : 50.8/39

Out: 1.386 ± 1.466 χ^2/NDF : 49.2/42

All: -0.056 ± 1.047 χ^2/NDF : 101.9/82

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7797.989+/-2.192 χ^2/NDF : 736318.7/16

Left Out: 7103.342+/-1.192 χ^2/NDF : 378228.1/23

Right Out: 7672.429+/-2.096 χ^2/NDF : 676691.4/18

Left In: 7047.269+/-1.209 χ^2/NDF : 517433.5/22

Left: 7075.701+/-0.849 χ^2/NDF : 896751.8/46

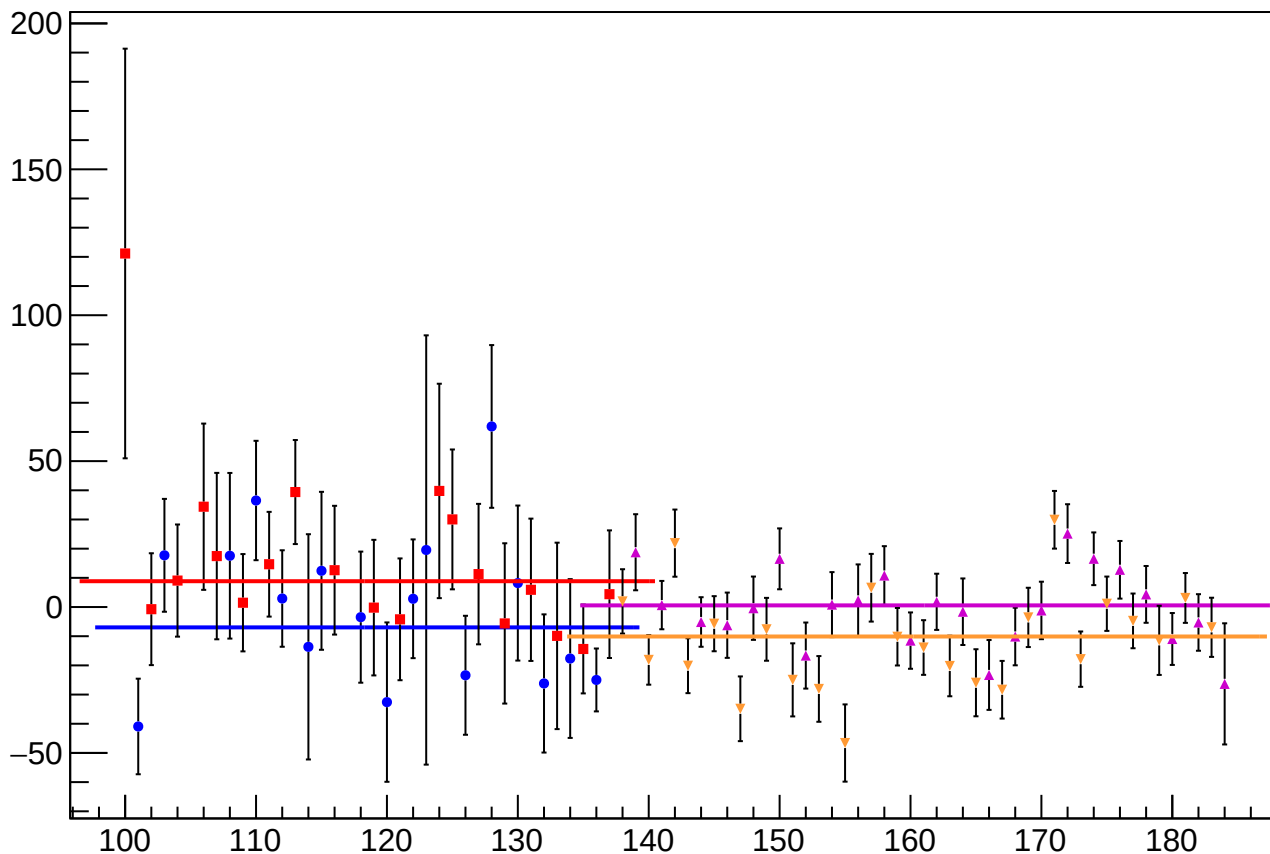
Right: 7732.419+/-1.515 χ^2/NDF : 1414723.9/35

In: 7222.474+/-1.059 χ^2/NDF : 1343691.5/39

Out: 7242.438+/-1.036 χ^2/NDF : 1110597.7/42

All: 7232.669+/-0.741 χ^2/NDF : 2454470.7/82

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 5.096 χ^2/NDF : 24.0/16

Left Out: -10.100 ± 2.087 χ^2/NDF : 58.0/23

Right Out: 8.848 ± 5.080 χ^2/NDF : 12.0/18

Left In: 0.564 ± 2.144 χ^2/NDF : 29.7/22

Left: -4.911 ± 1.495 χ^2/NDF : 100.5/46

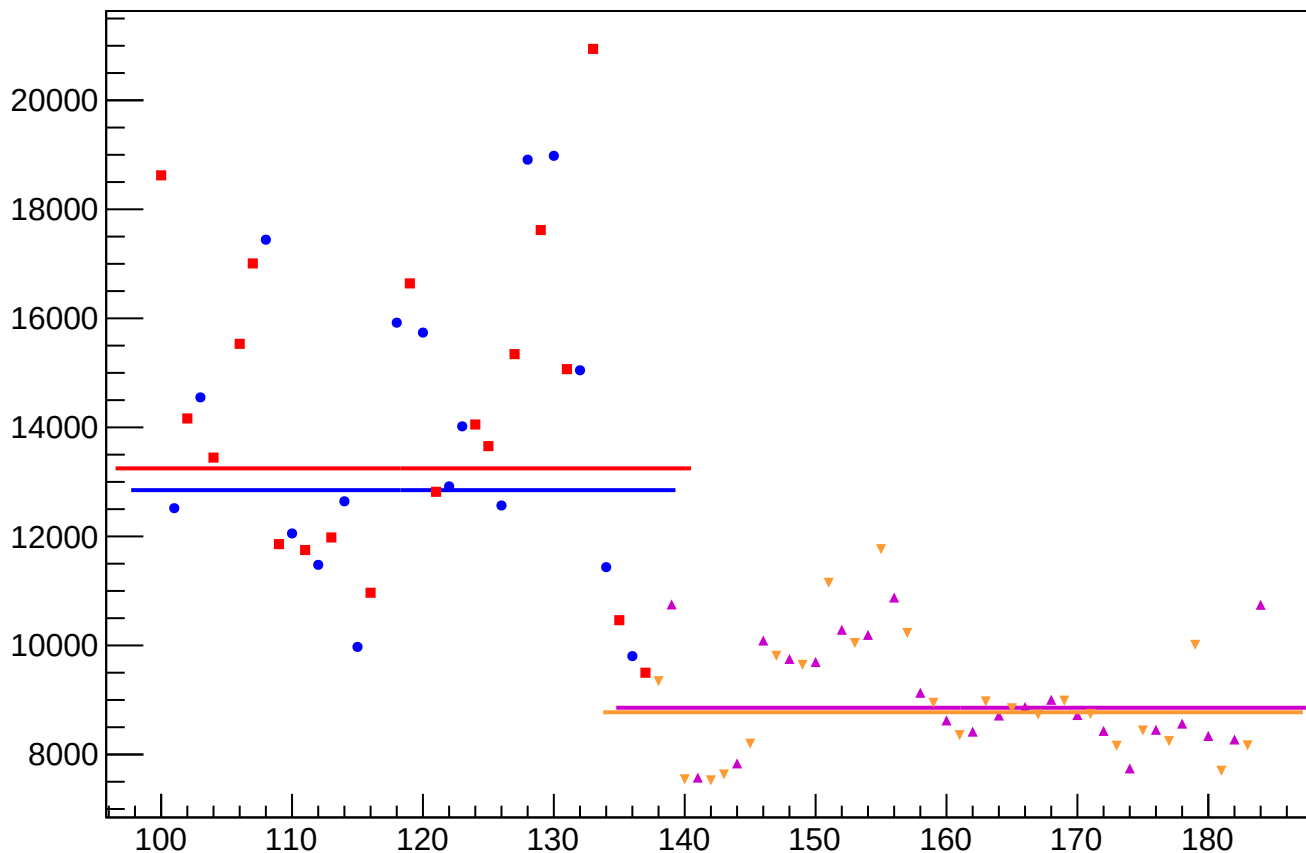
Right: 0.961 ± 3.598 χ^2/NDF : 40.9/35

In: -0.570 ± 1.976 χ^2/NDF : 55.7/39

Out: -7.364 ± 1.930 χ^2/NDF : 81.9/42

All: -4.046 ± 1.381 χ^2/NDF : 143.6/82

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12848.710 $\pm$ 3.603 χ^2 /NDF: 552210.2/16

Left Out: 8774.319 $\pm$ 1.476 χ^2 /NDF: 453389.8/23

Right Out: 13248.110 $\pm$ 3.592 χ^2 /NDF: 487206.6/18

Left In: 8857.329 $\pm$ 1.516 χ^2 /NDF: 361778.8/22

Left: 8814.709 $\pm$ 1.057 χ^2 /NDF: 816708.4/46

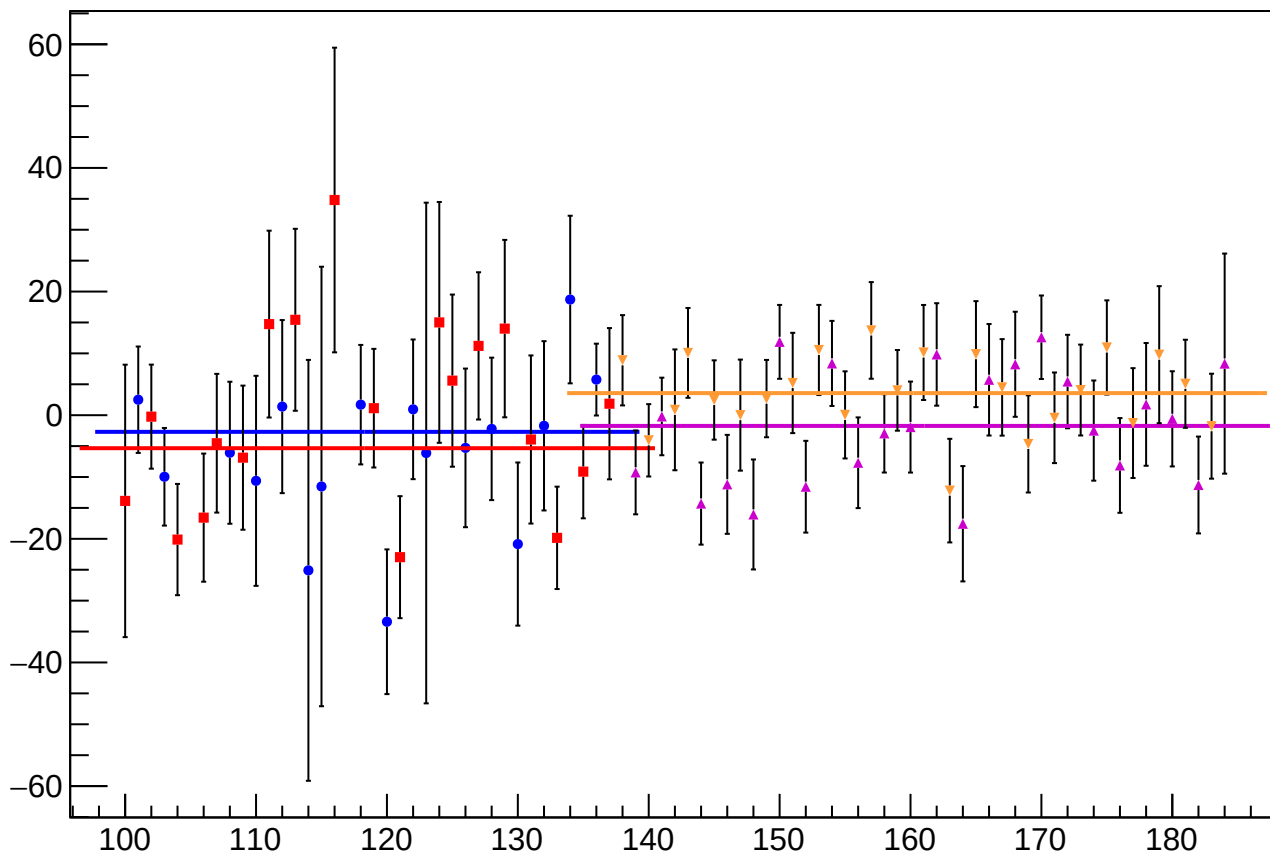
Right: 13049.037 $\pm$ 2.544 χ^2 /NDF: 1045578.8/35

In: 9457.427 $\pm$ 1.397 χ^2 /NDF: 1956449.0/39

Out: 9420.263 $\pm$ 1.365 χ^2 /NDF: 2267771.1/42

All: 9438.410 $\pm$ 0.976 χ^2 /NDF: 4224582.1/82

diff_bpm4ecY_mean vs Slug, Sign Corrected



Left: 0.991 ± 1.106 $\chi^2/\text{NDF}: 53.8/46$

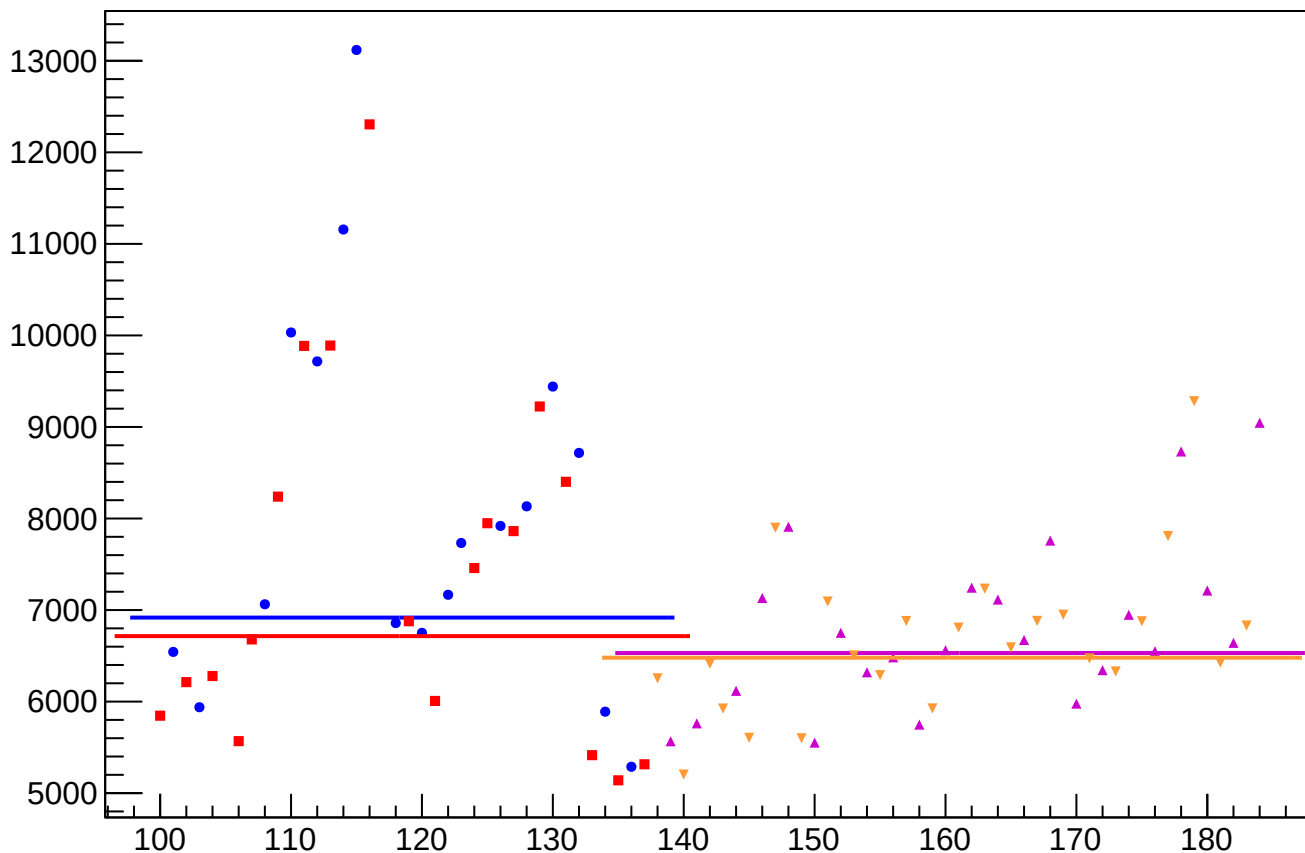
Right: -4.088 ± 1.882 $\chi^2/\text{NDF}: 39.9/35$

In: -1.976 ± 1.372 $\chi^2/\text{NDF}: 49.5/39$

Out: 1.241 ± 1.326 $\chi^2/\text{NDF}: 46.8/42$

All: -0.313 ± 0.954 $\chi^2/\text{NDF}: 99.1/82$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6917.700 ± 1.935 $\chi^2/\text{NDF}: 587164.4/16$

Left Out: 6479.567 ± 1.092 $\chi^2/\text{NDF}: 483122.2/23$

Right Out: 6715.087 ± 1.833 $\chi^2/\text{NDF}: 660008.2/18$

Left In: 6530.954 ± 1.121 $\chi^2/\text{NDF}: 464668.6/22$

Left: 6504.568 ± 0.782 $\chi^2/\text{NDF}: 948869.0/46$

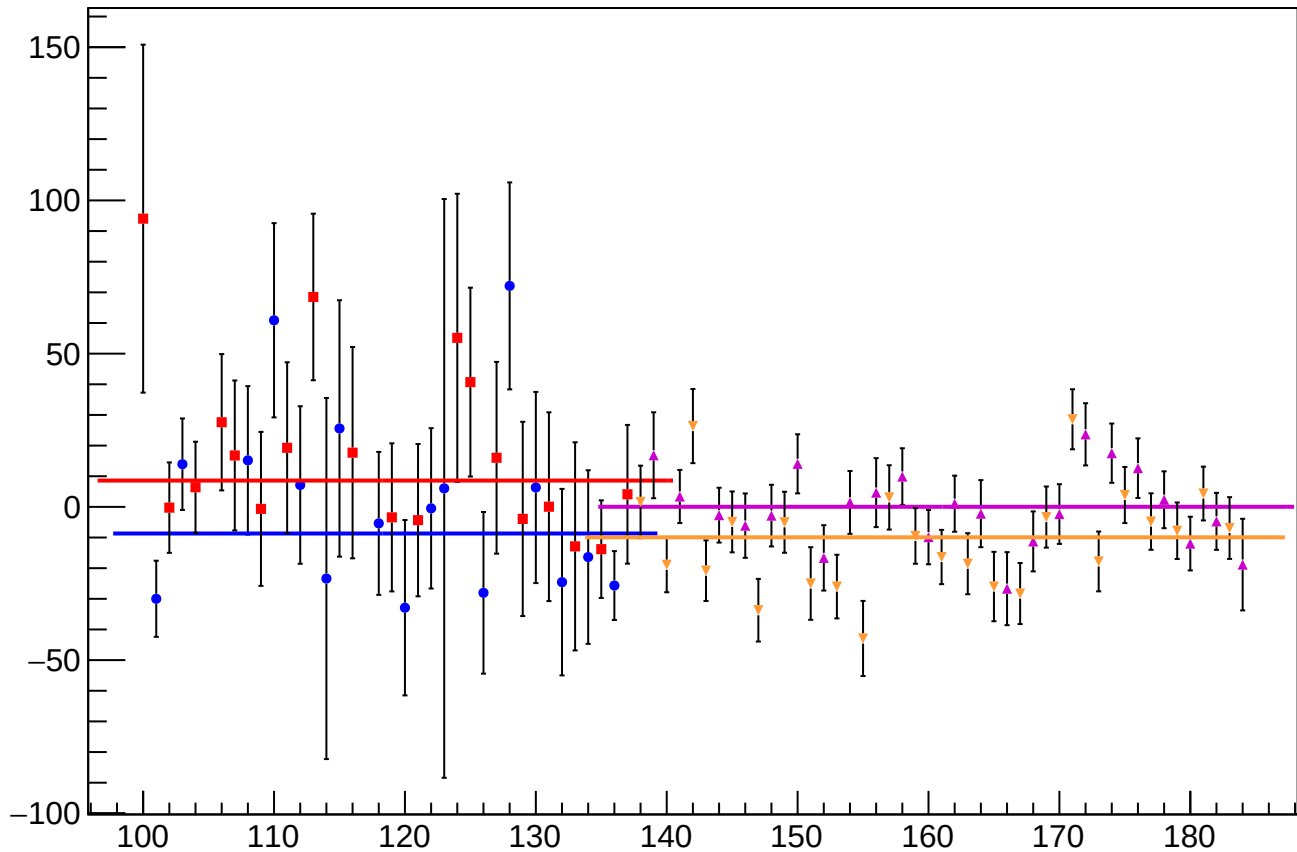
Right: 6810.919 ± 1.331 $\chi^2/\text{NDF}: 1252951.3/35$

In: 6628.189 ± 0.970 $\chi^2/\text{NDF}: 1081739.3/39$

Out: 6541.217 ± 0.938 $\chi^2/\text{NDF}: 1155317.6/42$

All: 6583.228 ± 0.674 $\chi^2/\text{NDF}: 2241211.1/82$

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.685 $\pm$ 5.401 χ^2/NDF : 22.1/16

Left Out: -9.932 $\pm$ 2.038 χ^2/NDF : 59.5/23

Right Out: 8.586 $\pm$ 5.516 χ^2/NDF : 14.0/18

Left In: 0.027 $\pm$ 2.080 χ^2/NDF : 29.9/22

Left: -5.054 $\pm$ 1.456 χ^2/NDF : 101.1/46

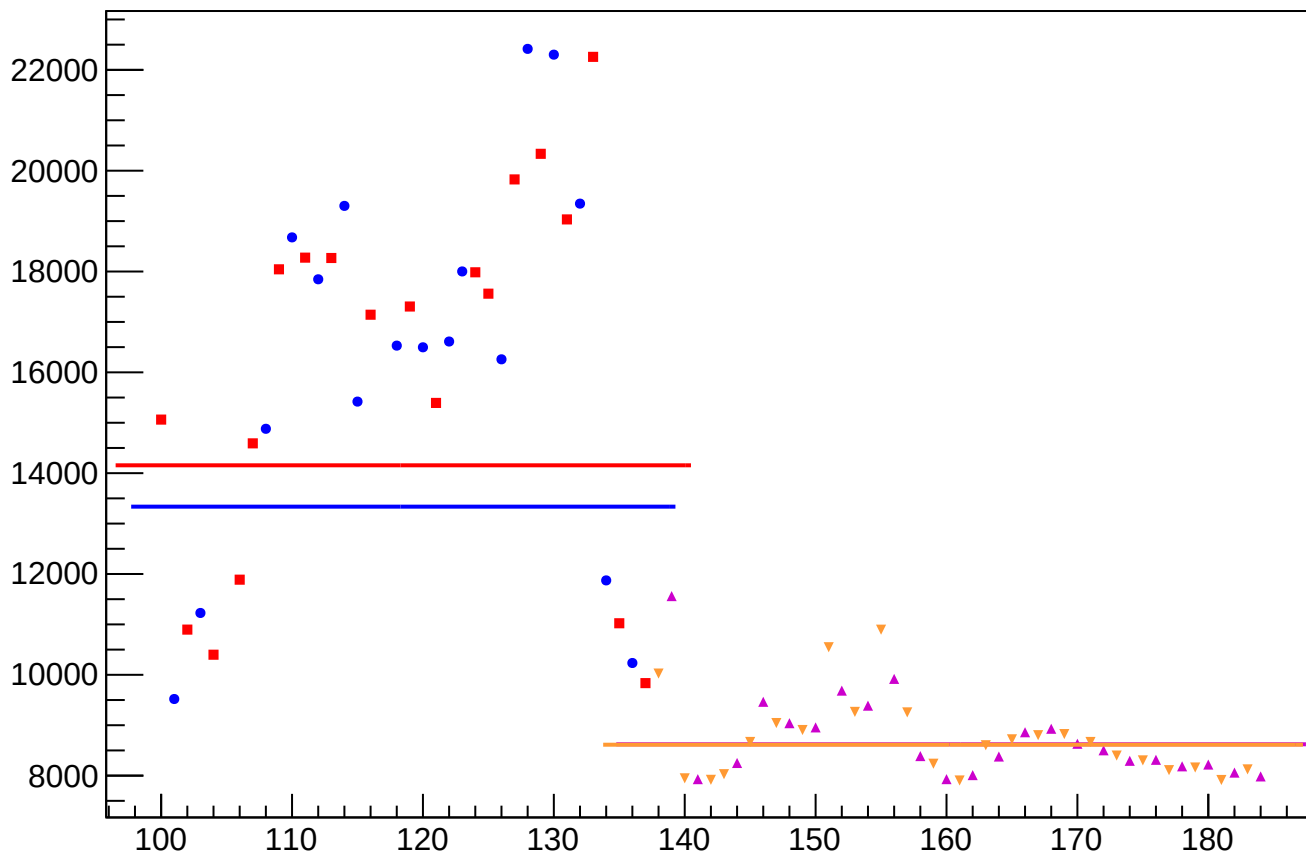
Right: -0.232 $\pm$ 3.859 χ^2/NDF : 41.1/35

In: -1.098 $\pm$ 1.941 χ^2/NDF : 54.3/39

Out: -7.708 $\pm$ 1.912 χ^2/NDF : 83.4/42

All: -4.453 $\pm$ 1.362 χ^2/NDF : 143.6/82

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13335.843 $\pm$ 3.819 χ^2 /NDF: 1049247.5/16

Left Out: 8613.472 $\pm$ 1.441 χ^2 /NDF:246031.6/23

Right Out: 14155.967 $\pm$ 3.901 χ^2 /NDF: 932431.0/18

Left In: 8621.975 $\pm$ 1.471 χ^2 /NDF:230824.4/22

Left: 8617.637 $\pm$ 1.029 χ^2 /NDF: 476873.1/46

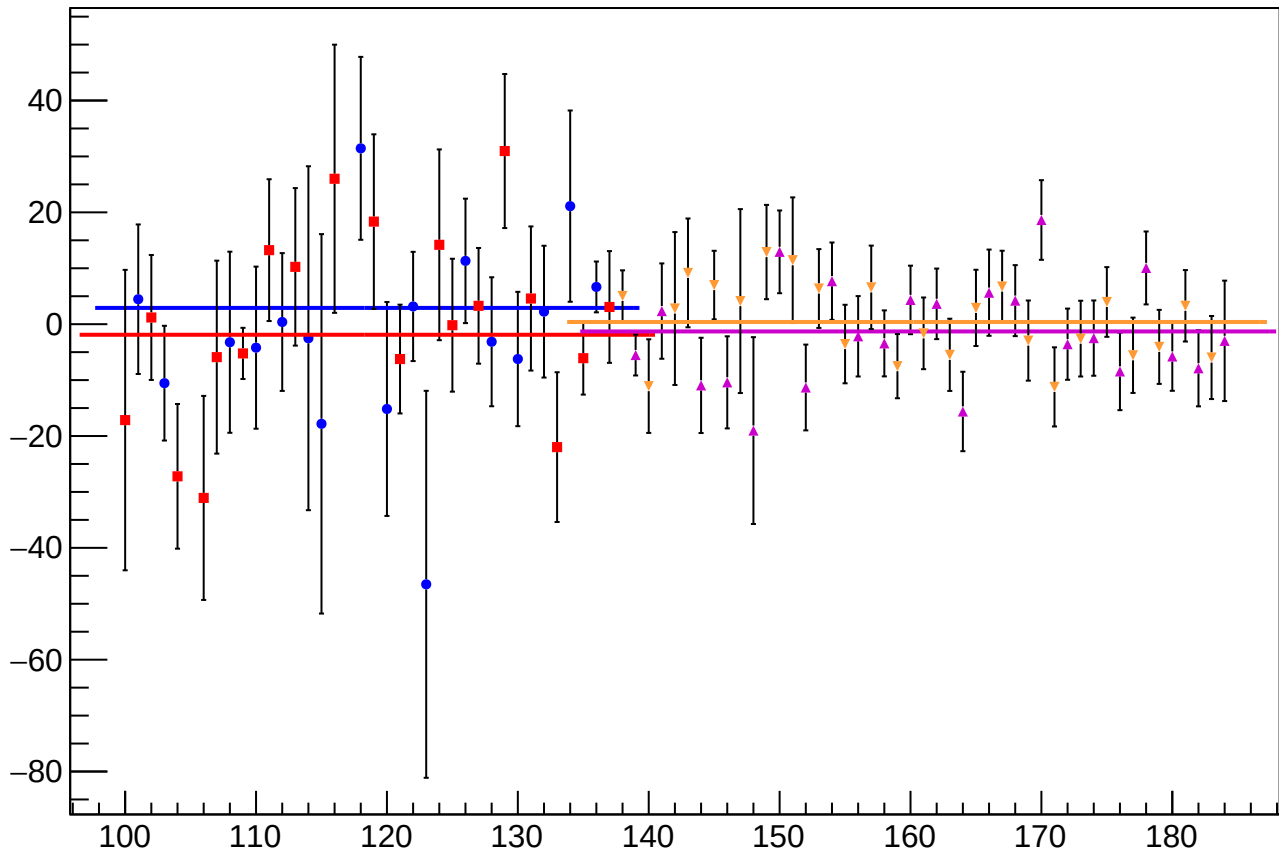
Right: 13737.272 $\pm$ 2.729 χ^2 /NDF: 2004248.2/35

In: 9230.677 $\pm$ 1.372 χ^2 /NDF:2606692.6/39

Out: 9279.168 $\pm$ 1.352 χ^2 /NDF:2955059.8/42

All: 9255.290 $\pm$ 0.963 χ^2 /NDF: 5562386.0/82

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.911 ± 2.758 $\chi^2/\text{NDF}: 11.8/16$

Left Out: 0.396 ± 1.432 $\chi^2/\text{NDF}: 19.4/23$

Right Out: -1.892 ± 2.444 $\chi^2/\text{NDF}: 22.8/18$

Left In: -1.298 ± 1.406 $\chi^2/\text{NDF}: 33.0/22$

Left: -0.467 ± 1.003 $\chi^2/\text{NDF}: 53.2/46$

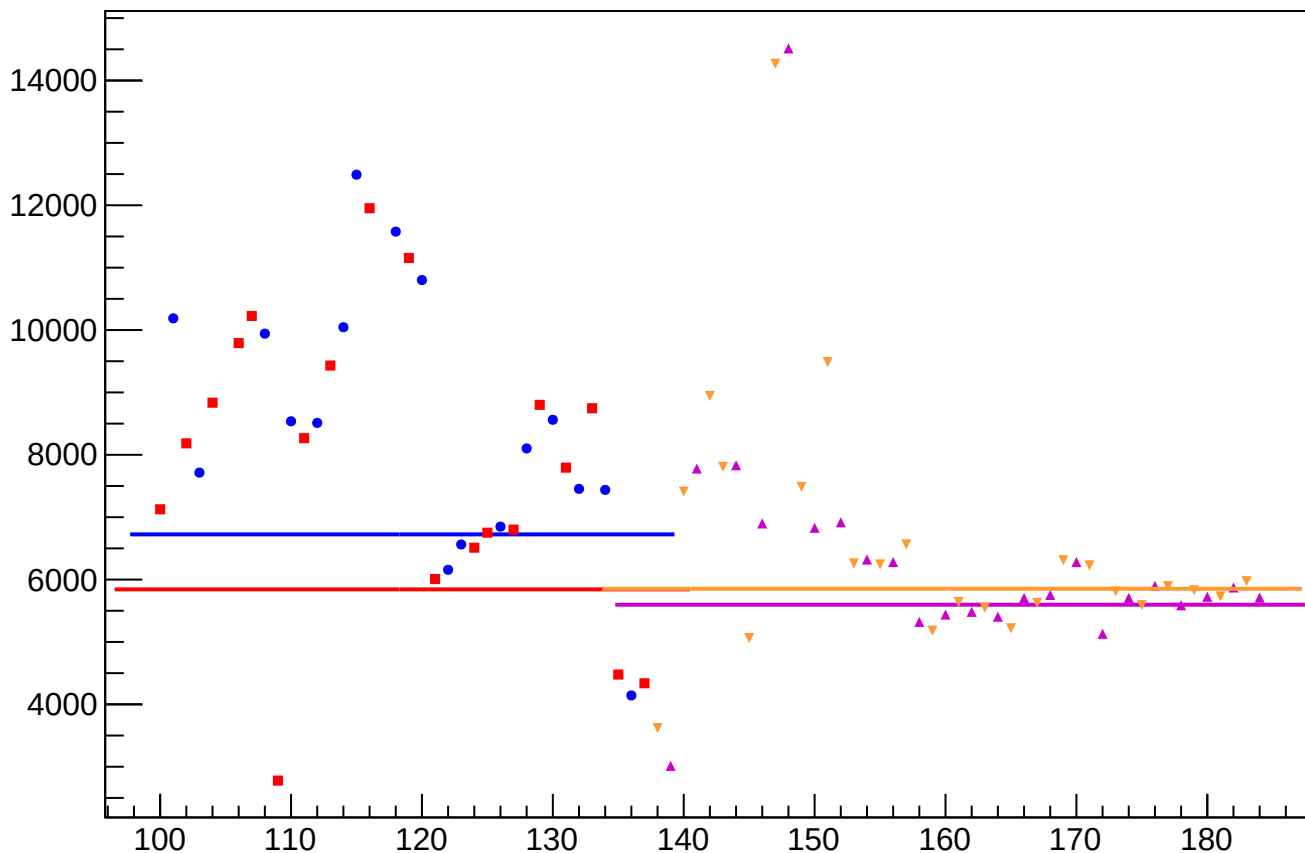
Right: 0.221 ± 1.829 $\chi^2/\text{NDF}: 36.3/35$

In: -0.430 ± 1.253 $\chi^2/\text{NDF}: 46.7/39$

Out: -0.189 ± 1.236 $\chi^2/\text{NDF}: 42.8/42$

All: -0.308 ± 0.880 $\chi^2/\text{NDF}: 89.5/82$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6724.403 $\pm$ 1.950 χ^2 /NDF: 1391680.1/16

Left Out: 5852.383 $\pm$ 1.013 χ^2 /NDF: 1672211.1/23

Right Out: 5843.007 $\pm$ 1.728 χ^2 /NDF: 2280742.0/18

Left In: 5596.879 $\pm$ 0.994 χ^2 /NDF: 2089750.1/22

Left: 5722.303 $\pm$ 0.709 χ^2 /NDF: 3794372.8/46

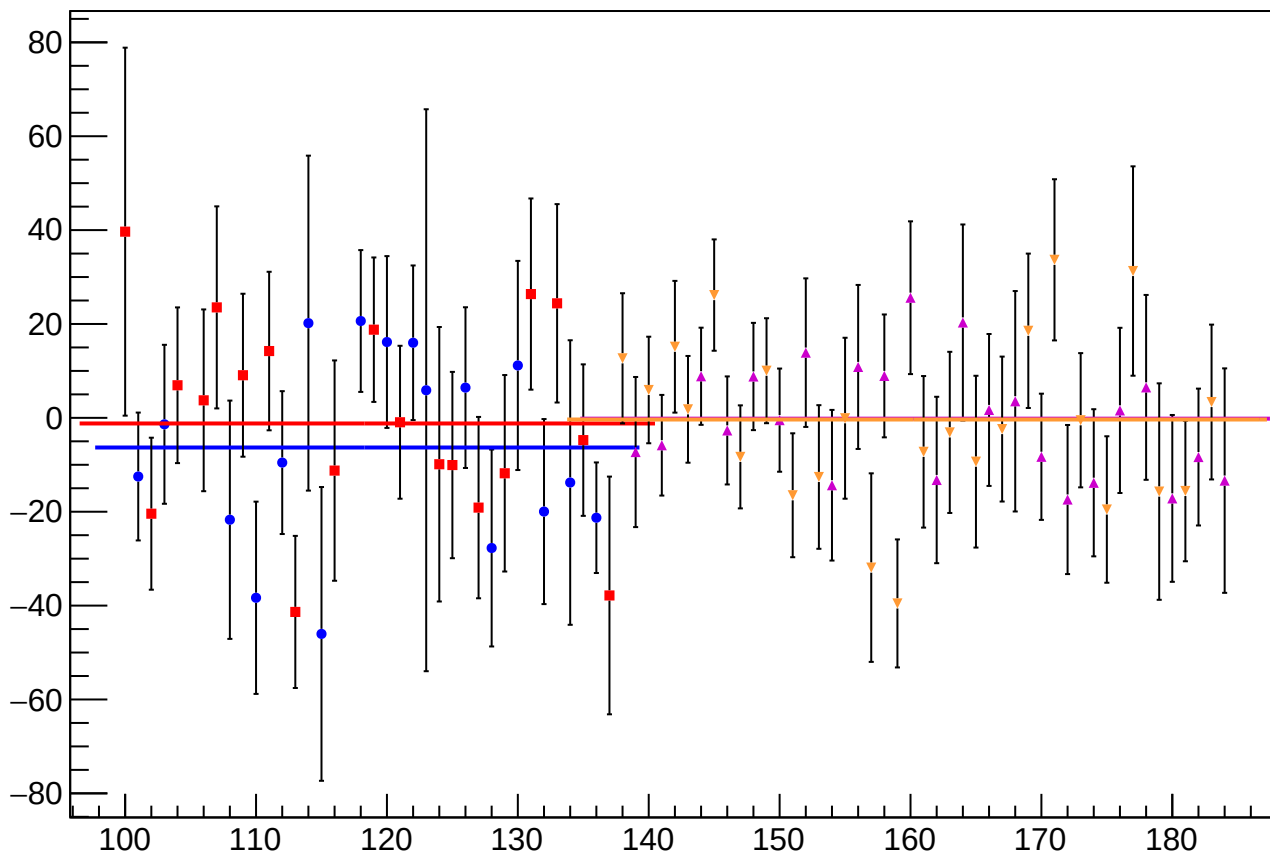
Right: 6230.735 $\pm$ 1.293 χ^2 /NDF: 3786855.2/35

In: 5829.564 $\pm$ 0.886 χ^2 /NDF: 3746778.4/39

Out: 5849.986 $\pm$ 0.874 χ^2 /NDF: 3952975.0/42

All: 5839.916 $\pm$ 0.622 χ^2 /NDF: 7700022.9/82

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.317 ± 4.525 χ^2/NDF : 16.2/16

Left Out: -0.353 ± 2.975 χ^2/NDF : 32.5/23

Right Out: -1.197 ± 4.382 χ^2/NDF : 20.2/18

Left In: -0.172 ± 3.067 χ^2/NDF : 12.4/22

Left: -0.266 ± 2.136 χ^2/NDF : 44.8/46

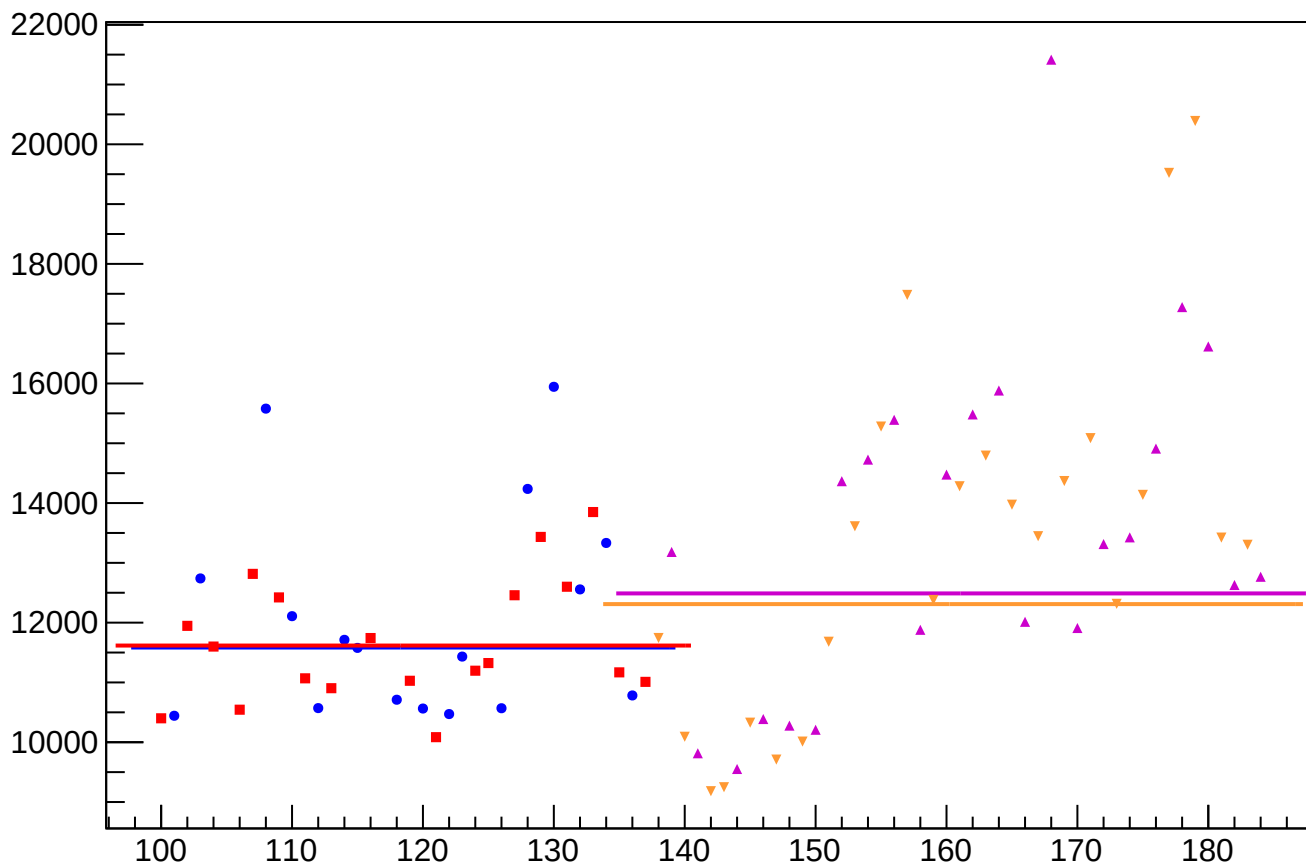
Right: -3.675 ± 3.148 χ^2/NDF : 37.1/35

In: -2.107 ± 2.539 χ^2/NDF : 29.9/39

Out: -0.620 ± 2.461 χ^2/NDF : 52.6/42

All: -1.340 ± 1.767 χ^2/NDF : 82.7/82

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11584.044+/-3.200 χ^2/NDF : 241550.8/16

Left Out: 12310.059+/-2.104 χ^2/NDF :1471597.8/23

Right Out: 11616.845+/-3.098 χ^2/NDF : 95463.1/18

Left In: 12488.821+/-2.169 χ^2/NDF :1354485.4/22

Left: 12396.716+/-1.510 χ^2/NDF : 2829583.4/46

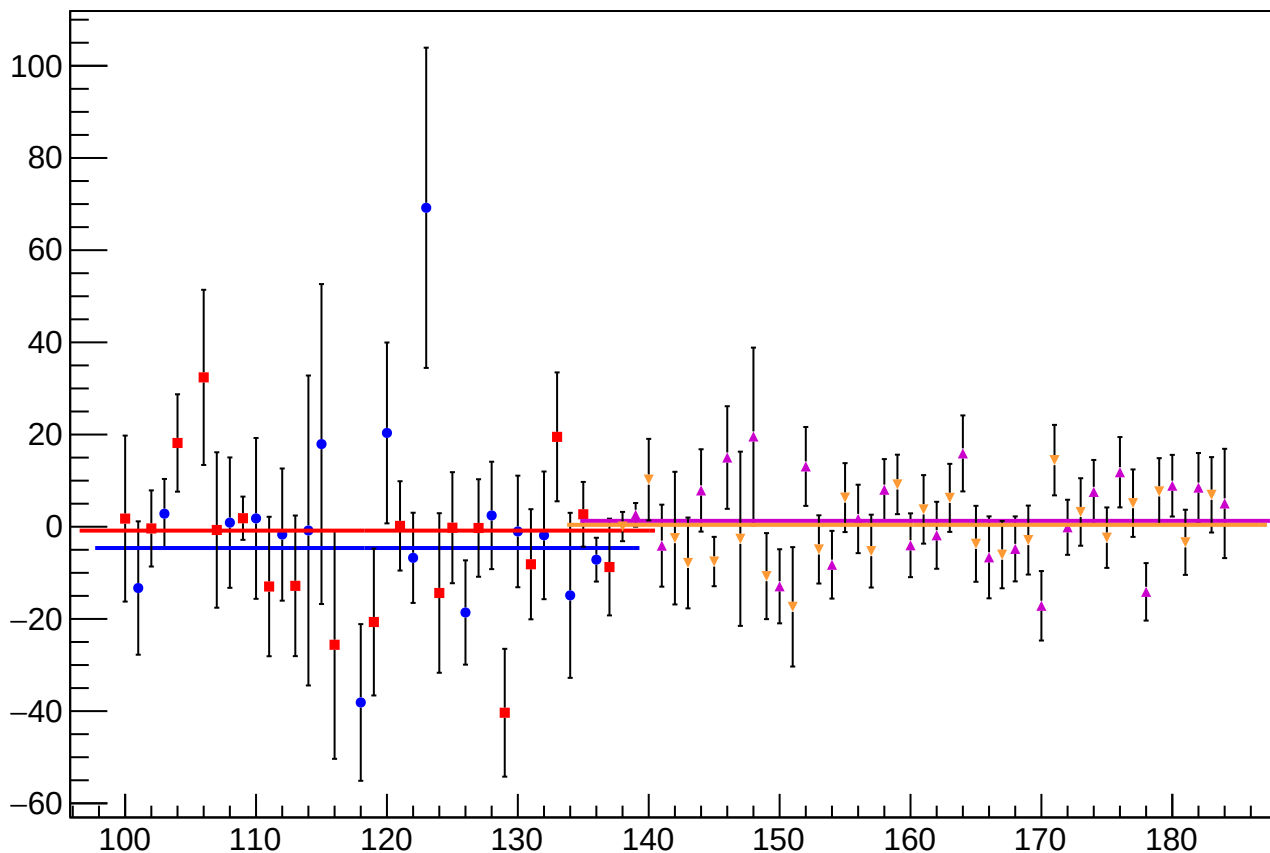
Right: 11600.972+/-2.226 χ^2/NDF : 337068.1/35

In: 12203.972+/-1.795 χ^2/NDF :1650824.2/39

Out: 12091.315+/-1.740 χ^2/NDF :1601322.9/42

All: 12145.897+/-1.250 χ^2/NDF : 3254176.9/80

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.616 ± 2.782 χ^2/NDF : 14.8/16

Left Out: 0.415 ± 1.446 χ^2/NDF : 19.2/23

Right Out: -0.841 ± 2.431 χ^2/NDF : 22.5/18

Left In: 1.278 ± 1.386 χ^2/NDF : 34.0/22

Left: 0.865 ± 1.001 χ^2/NDF : 53.3/46

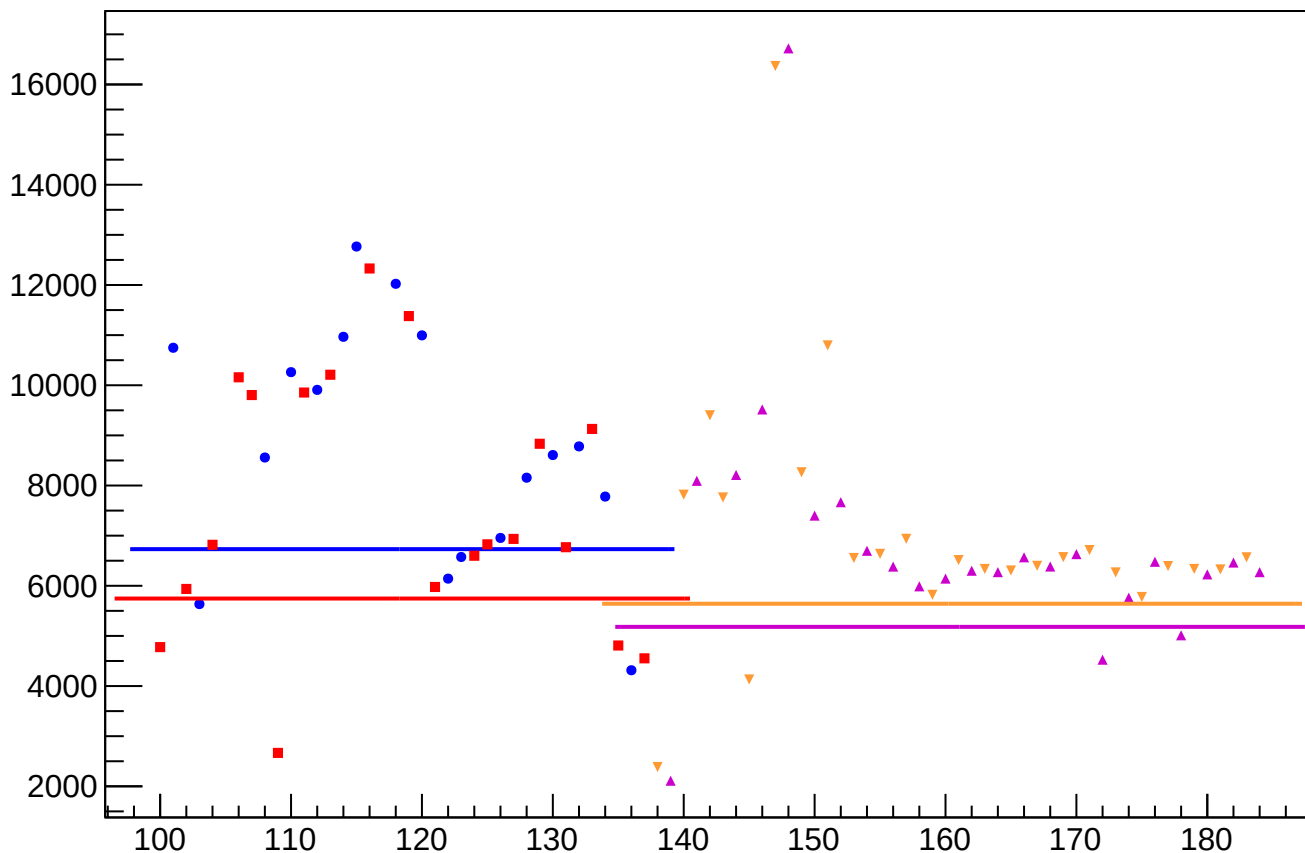
Right: -2.475 ± 1.830 χ^2/NDF : 38.4/35

In: 0.107 ± 1.240 χ^2/NDF : 52.4/39

Out: 0.086 ± 1.243 χ^2/NDF : 41.9/42

All: 0.096 ± 0.878 χ^2/NDF : 94.3/82

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6730.931+/-1.967 χ^2/NDF : 1444572.7/16

Left Out: 5642.042+/-1.023 χ^2/NDF : 4100183.0/23

Right Out: 5745.707+/-1.719 χ^2/NDF : 2164630.9/18

Left In: 5180.743+/-0.980 χ^2/NDF : 5350053.6/22

Left: 5401.520+/-0.708 χ^2/NDF : 9556310.7/46

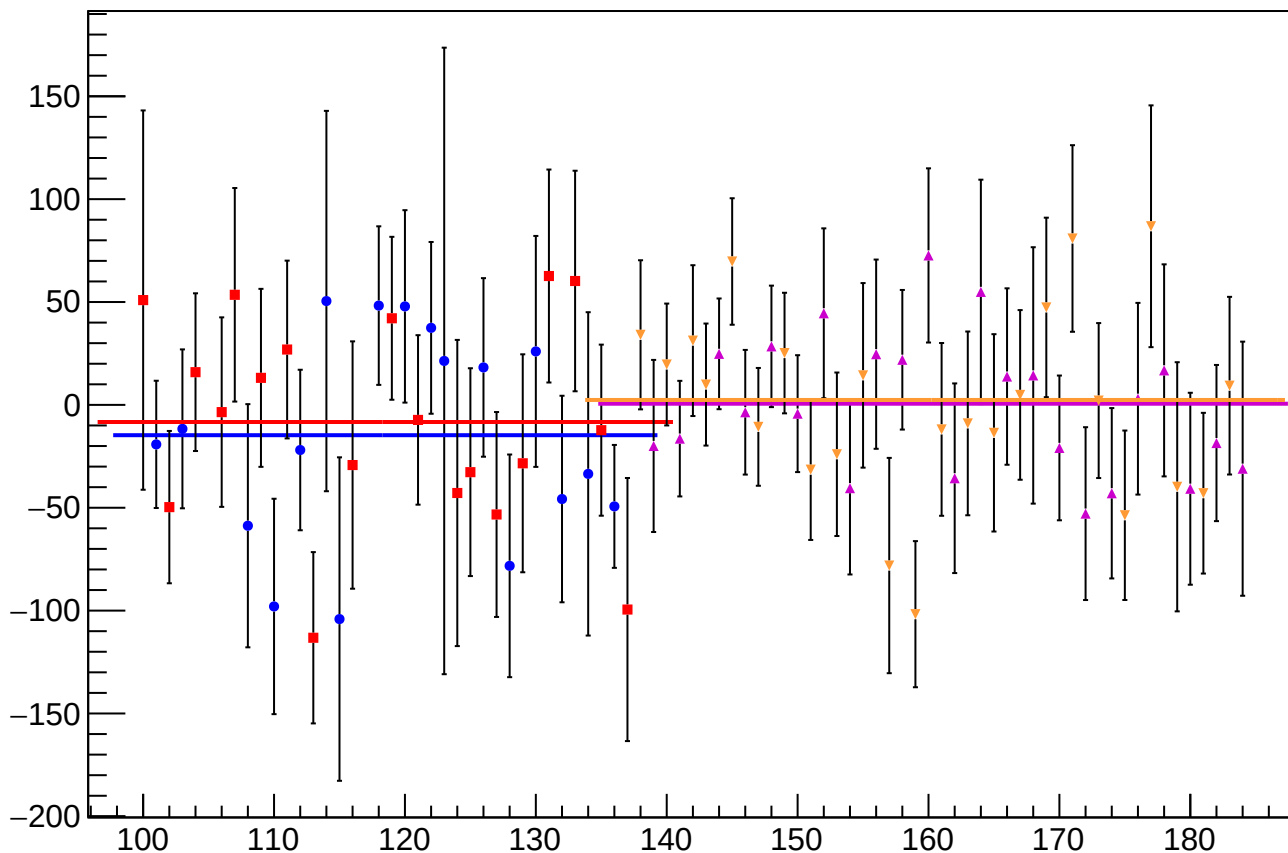
Right: 6172.245+/-1.294 χ^2/NDF : 3751459.2/35

In: 5488.931+/-0.877 χ^2/NDF : 7292217.7/39

Out: 5669.149+/-0.879 χ^2/NDF : 6267500.4/42

All: 5578.851+/-0.621 χ^2/NDF : 13580784.8/8

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -14.734 ± 11.237 χ^2/NDF : 15.3/16

Left Out: 2.392 ± 7.780 χ^2/NDF : 30.0/23

Right Out: -8.323 ± 10.912 χ^2/NDF : 19.5/18

Left In: 0.565 ± 8.015 χ^2/NDF : 14.3/22

Left: 1.505 ± 5.582 χ^2/NDF : 44.3/46

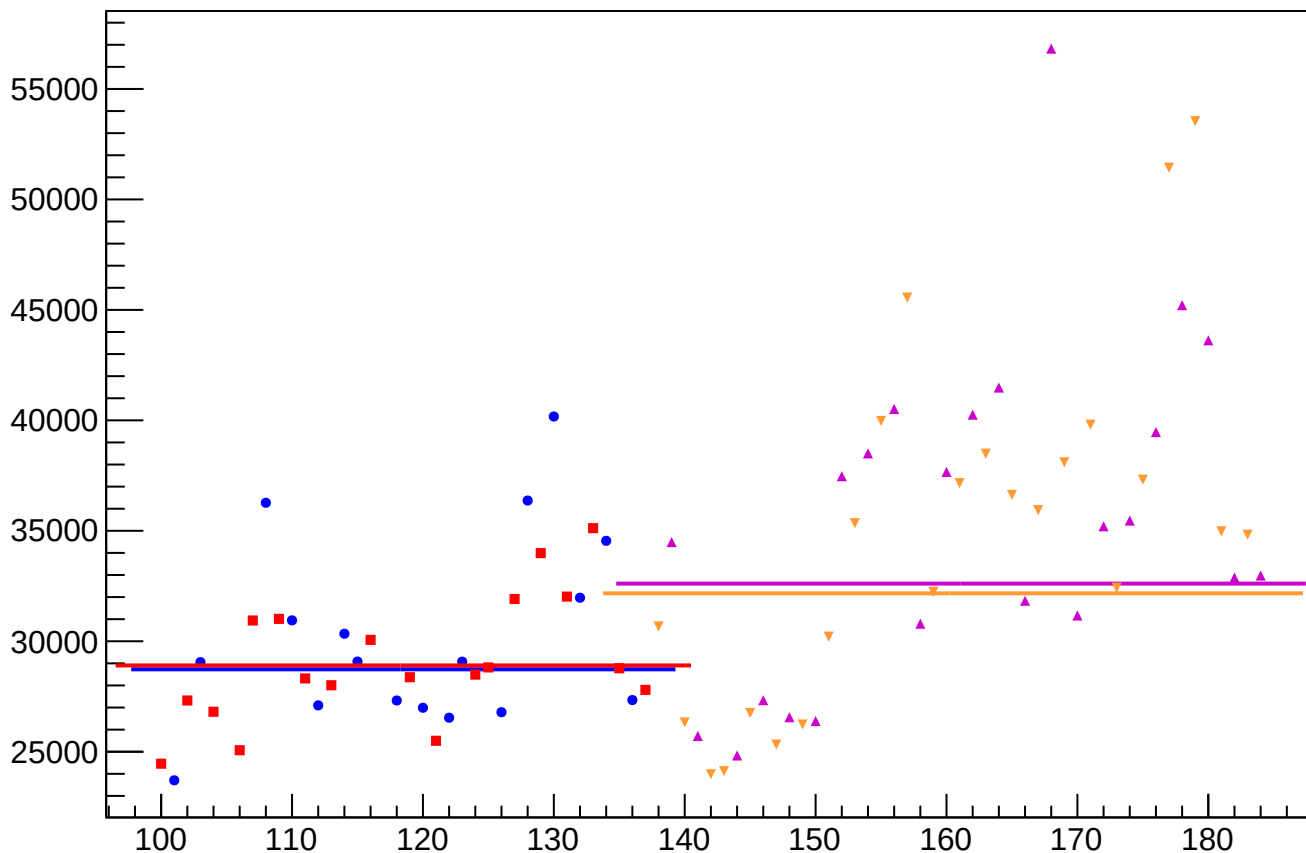
Right: -11.435 ± 7.828 χ^2/NDF : 34.9/35

In: -4.594 ± 6.525 χ^2/NDF : 30.8/39

Out: -1.219 ± 6.335 χ^2/NDF : 50.1/42

All: -2.857 ± 4.545 χ^2/NDF : 81.0/82

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28729.913+/-7.946 χ^2/NDF : 254816.0/16

Left Out: 32168.880+/-5.501 χ^2/NDF :1506550.3/23

Right Out: 28905.793+/-7.716 χ^2/NDF : 112668.4/18

Left In: 32610.108+/-5.667 χ^2/NDF :1398475.8/22

Left: 32382.946+/-3.947 χ^2/NDF : 2908146.9/46

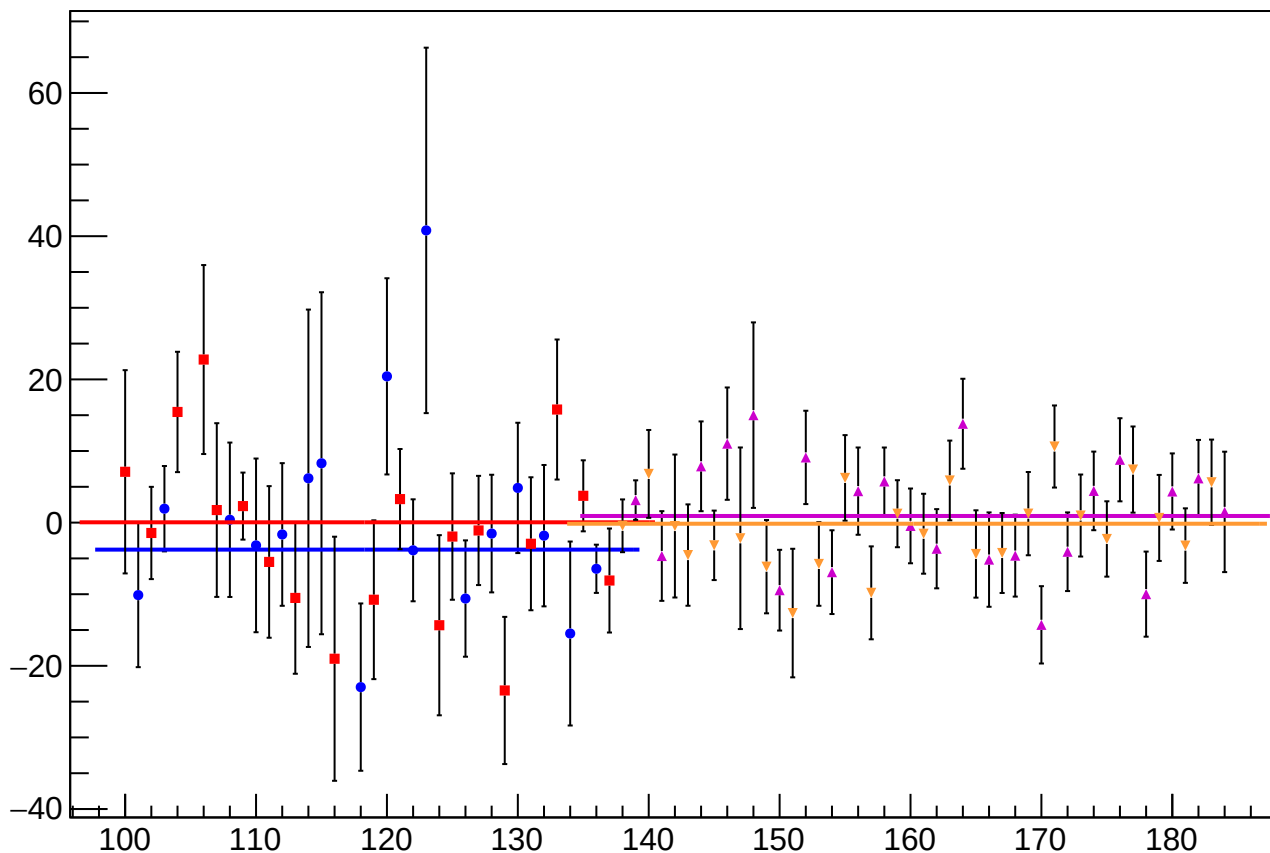
Right: 28820.430+/-5.536 χ^2/NDF : 367736.6/35

In: 31301.792+/-4.614 χ^2/NDF :1811359.5/39

Out: 31069.189+/-4.479 χ^2/NDF :1737785.6/42

All: 31182.053+/-3.214 χ^2/NDF : 3550453.4/80

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.773 ± 2.010 $\chi^2/\text{NDF}: 14.0/16$

Left Out: -0.157 ± 1.185 $\chi^2/\text{NDF}: 18.2/23$

Right Out: 0.042 ± 1.894 $\chi^2/\text{NDF}: 21.7/18$

Left In: 0.925 ± 1.154 $\chi^2/\text{NDF}: 36.1/22$

Left: 0.399 ± 0.827 $\chi^2/\text{NDF}: 54.7/46$

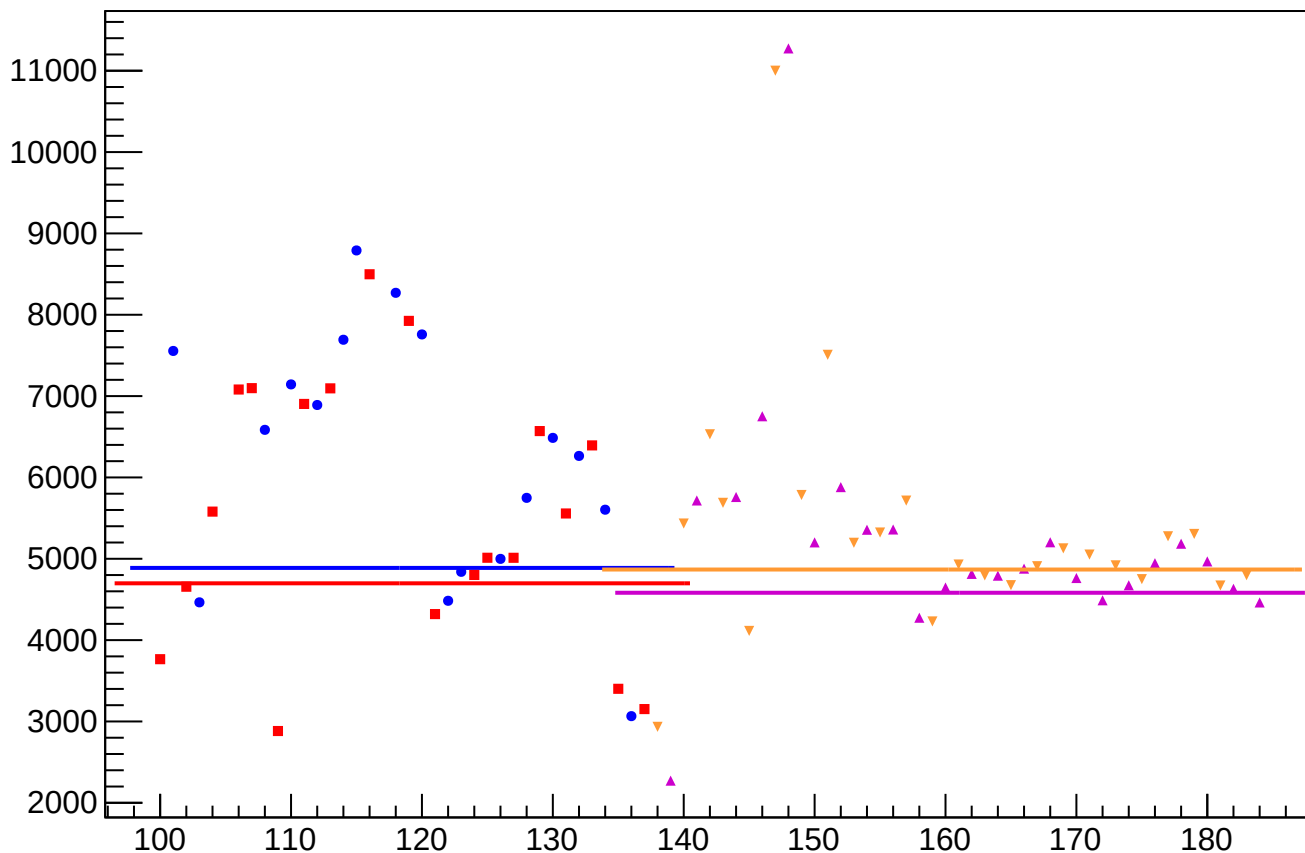
Right: -1.752 ± 1.378 $\chi^2/\text{NDF}: 37.6/35$

In: -0.239 ± 1.001 $\chi^2/\text{NDF}: 54.2/39$

Out: -0.101 ± 1.005 $\chi^2/\text{NDF}: 39.9/42$

All: -0.170 ± 0.709 $\chi^2/\text{NDF}: 94.1/82$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.759+/-1.421 χ^2/NDF : 1408633.3/16

Left Out: 4867.853+/-0.838 χ^2/NDF : 1501130.5/23

Right Out: 4698.374+/-1.339 χ^2/NDF : 1316063.8/18

Left In: 4582.193+/-0.816 χ^2/NDF : 2478681.0/22

Left: 4721.178+/-0.585 χ^2/NDF : 4039468.1/46

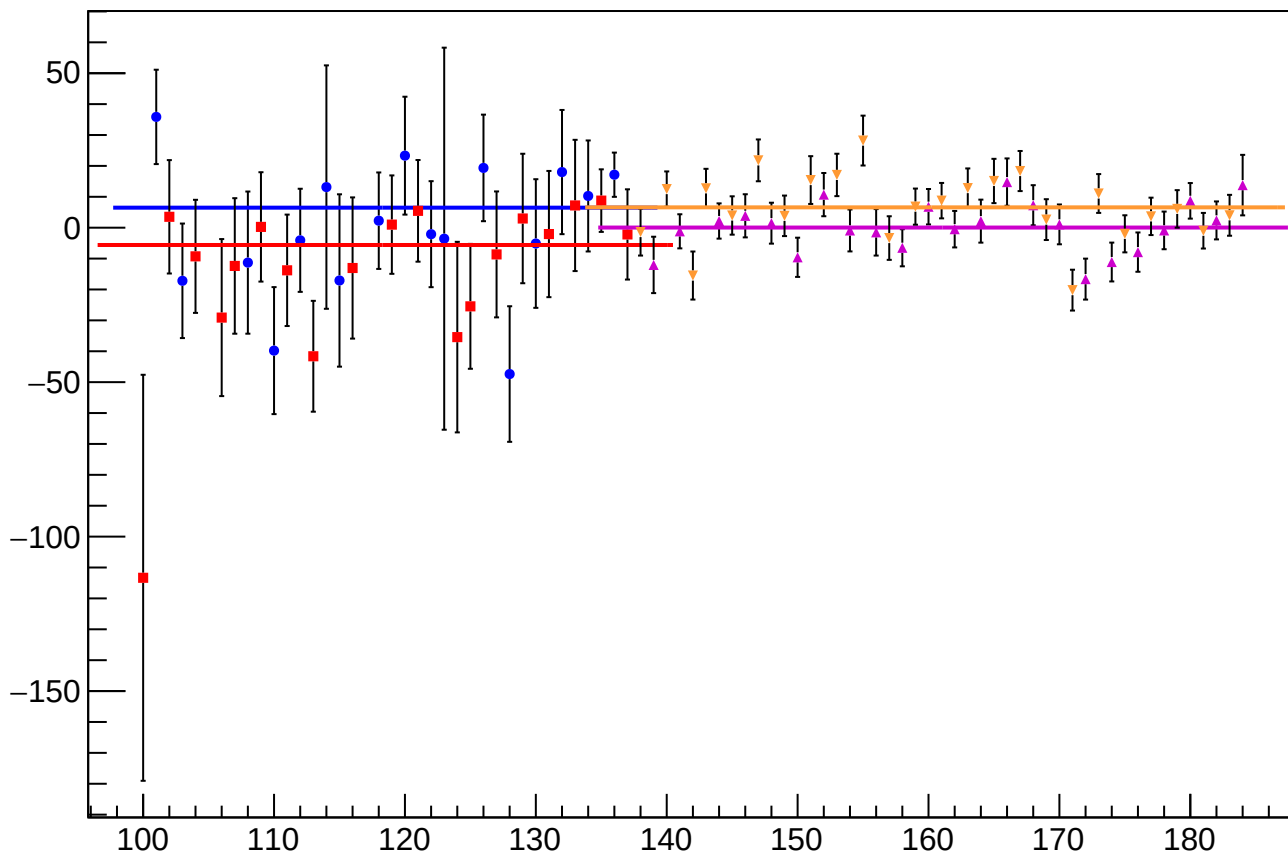
Right: 4787.445+/-0.975 χ^2/NDF : 2734101.5/35

In: 4657.913+/-0.708 χ^2/NDF : 3922080.6/39

Out: 4820.165+/-0.710 χ^2/NDF : 2828701.7/42

All: 4738.707+/-0.501 χ^2/NDF : 6776968.9/82

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.482 $\pm$ 4.072 χ^2/NDF : 22.7/16

Left Out: 6.581 $\pm$ 1.327 χ^2/NDF : 56.6/23

Right Out: -5.601 $\pm$ 4.227 χ^2/NDF : 13.6/18

Left In: 0.044 $\pm$ 1.358 χ^2/NDF : 30.0/22

Left: 3.387 $\pm$ 0.949 χ^2/NDF : 98.5/46

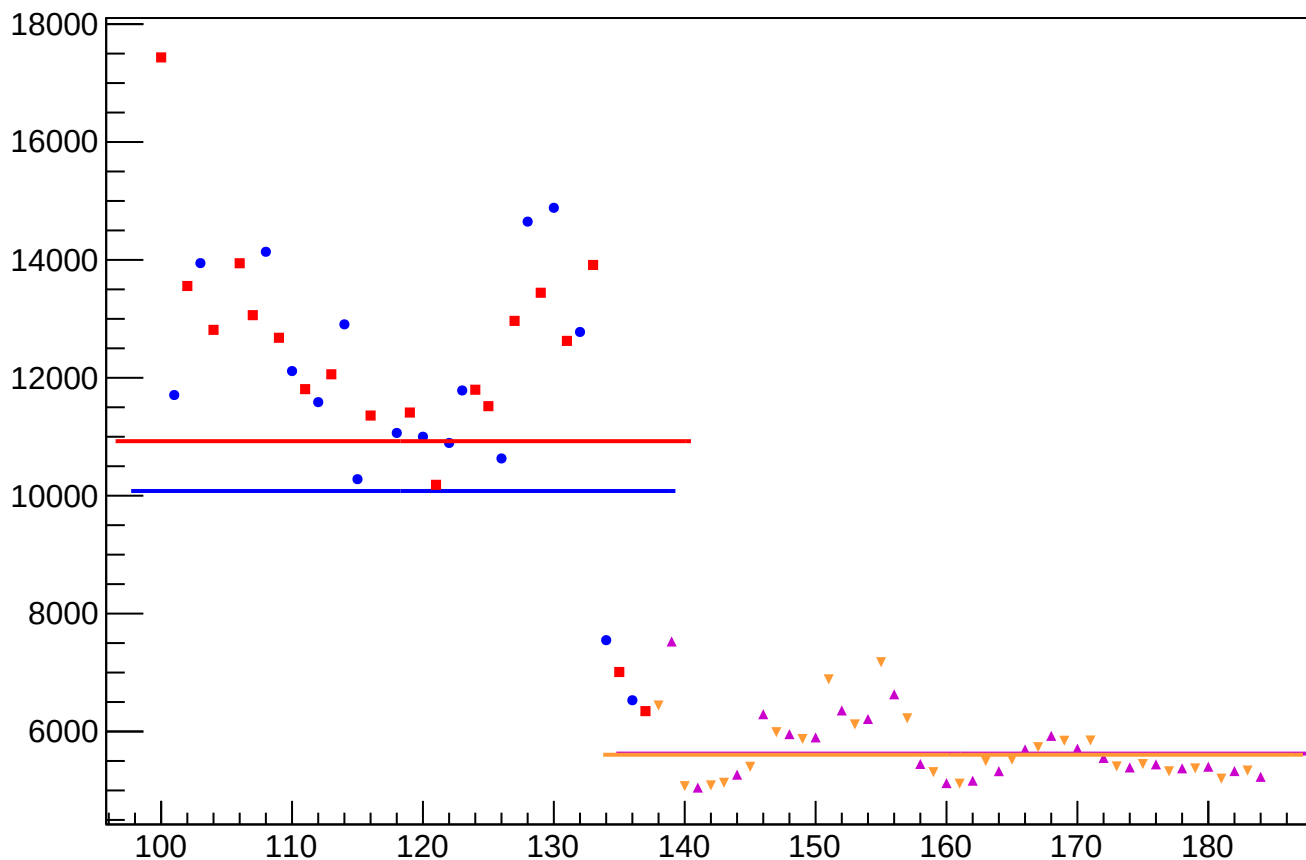
Right: 0.666 $\pm$ 2.933 χ^2/NDF : 40.5/35

In: 0.688 $\pm$ 1.288 χ^2/NDF : 55.0/39

Out: 5.488 $\pm$ 1.266 χ^2/NDF : 77.7/42

All: 3.129 $\pm$ 0.903 χ^2/NDF : 139.8/82

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10079.938 $\pm$ 2.879 χ^2 /NDF: 999414.2/16

Left Out: 5605.709 $\pm$ 0.939 χ^2 /NDF: 280927.4/23

Right Out: 10924.946 $\pm$ 2.989 χ^2 /NDF: 769663.7/18

Left In: 5625.163 $\pm$ 0.960 χ^2 /NDF: 272563.5/22

Left: 5615.215 $\pm$ 0.671 χ^2 /NDF: 553700.9/46

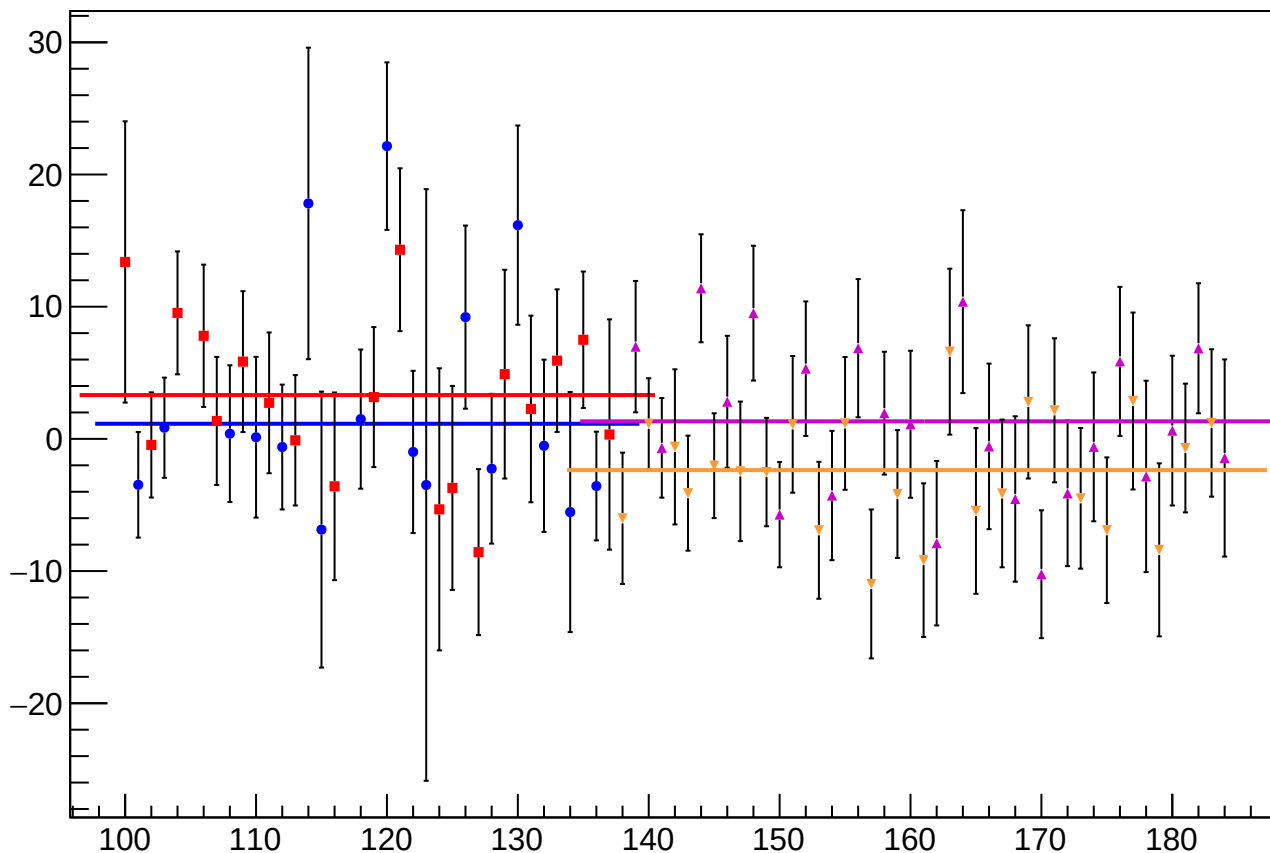
Right: 10486.688 $\pm$ 2.074 χ^2 /NDF: 1810531.7/35

In: 6070.841 $\pm$ 0.911 χ^2 /NDF: 3425993.4/39

Out: 6083.111 $\pm$ 0.895 χ^2 /NDF: 3933519.6/42

All: 6077.080 $\pm$ 0.639 χ^2 /NDF: 7359605.3/82

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.144 $\pm$ 1.398 χ^2 /NDF: 22.9/16

Left Out: -2.362 $\pm$ 1.043 χ^2 /NDF:14.1/23

Right Out: 3.316 $\pm$ 1.335 χ^2 /NDF: 15.4/18

Left In: 1.328 $\pm$ 1.082 χ^2 /NDF:30.6/22

Left: -0.584 $\pm$ 0.751 χ^2 /NDF: 50.7/46

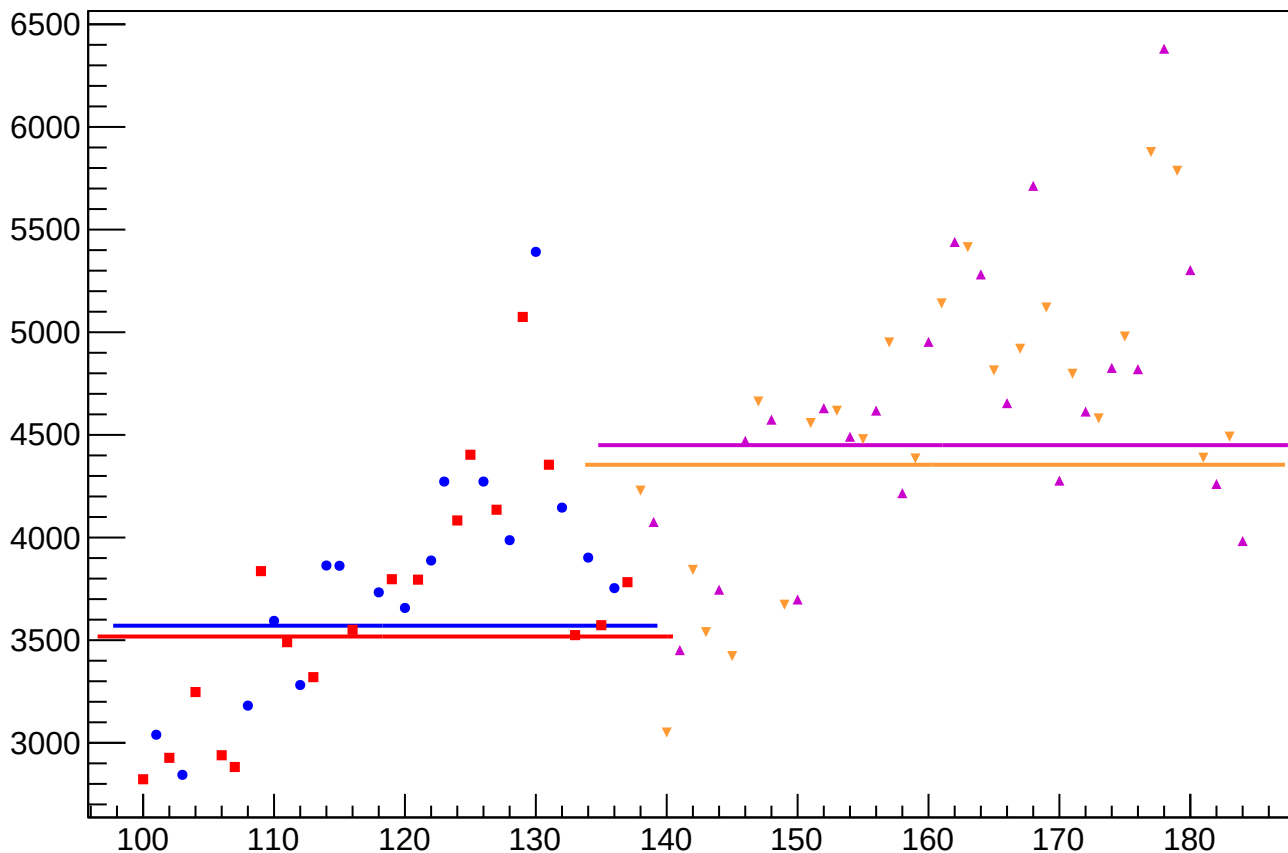
Right: 2.280 $\pm$ 0.965 χ^2 /NDF: 39.6/35

In: 1.259 $\pm$ 0.856 χ^2 /NDF:53.5/39

Out: -0.209 $\pm$ 0.822 χ^2 /NDF:40.7/42

All: 0.496 $\pm$ 0.593 χ^2 /NDF: 95.8/82

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.545 $\pm$ 0.988 χ^2 /NDF: 310402.0/16

Left Out: 4354.533 $\pm$ 0.738 χ^2 /NDF: 981548.3/23

Right Out: 3517.953 $\pm$ 0.944 χ^2 /NDF: 296177.1/18

Left In: 4450.007 $\pm$ 0.765 χ^2 /NDF: 693229.8/22

Left: 4400.536 $\pm$ 0.531 χ^2 /NDF: 1682846.9/46

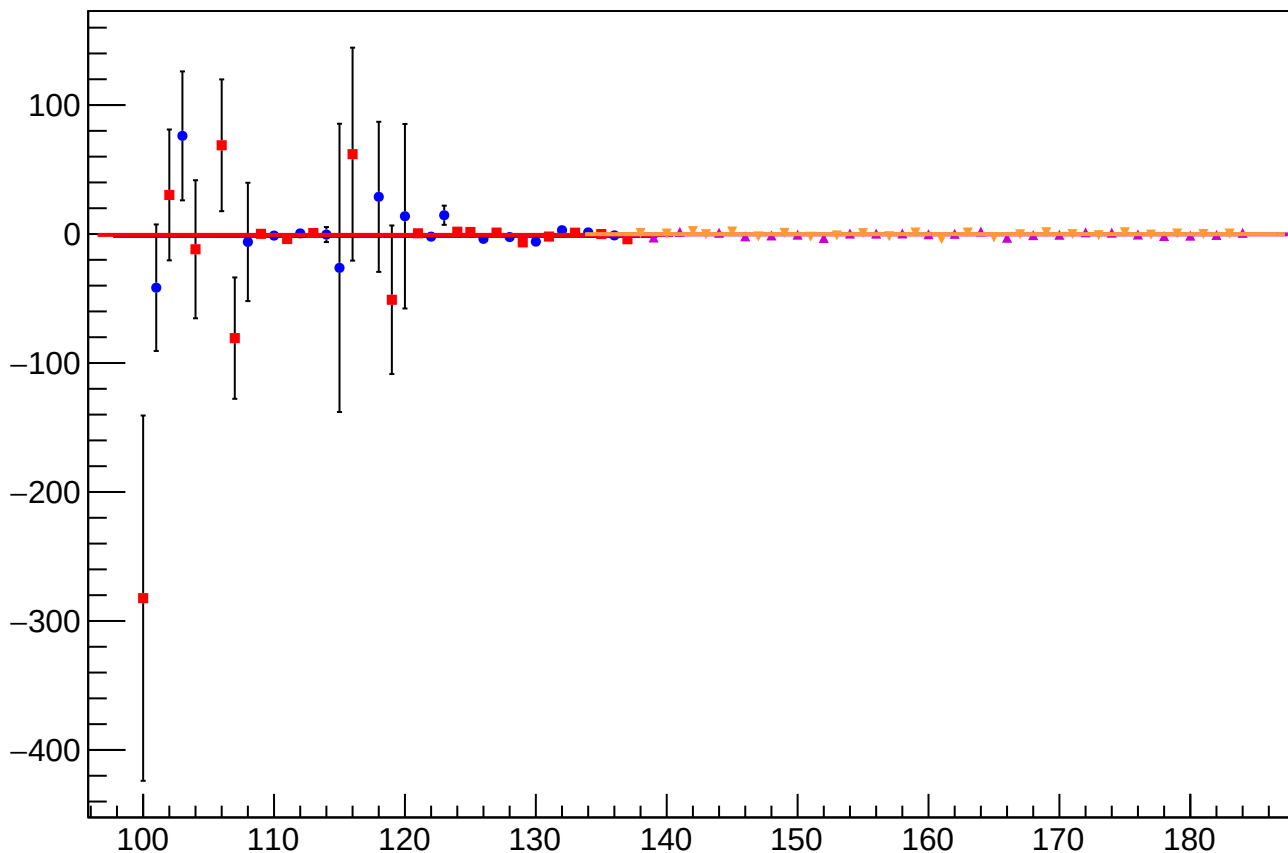
Right: 3543.048 $\pm$ 0.683 χ^2 /NDF: 608059.5/35

In: 4120.453 $\pm$ 0.605 χ^2 /NDF: 1498753.8/39

Out: 4037.373 $\pm$ 0.581 χ^2 /NDF: 1765165.6/42

All: 4077.258 $\pm$ 0.419 χ^2 /NDF: 3273724.0/82

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.402 ± 0.751 χ^2/NDF : 16.7/16

Left Out: -0.088 ± 0.251 χ^2/NDF : 34.1/23

Right Out: -0.664 ± 0.713 χ^2/NDF : 21.5/18

Left In: -0.259 ± 0.257 χ^2/NDF : 27.2/22

Left: -0.171 ± 0.180 χ^2/NDF : 61.5/46

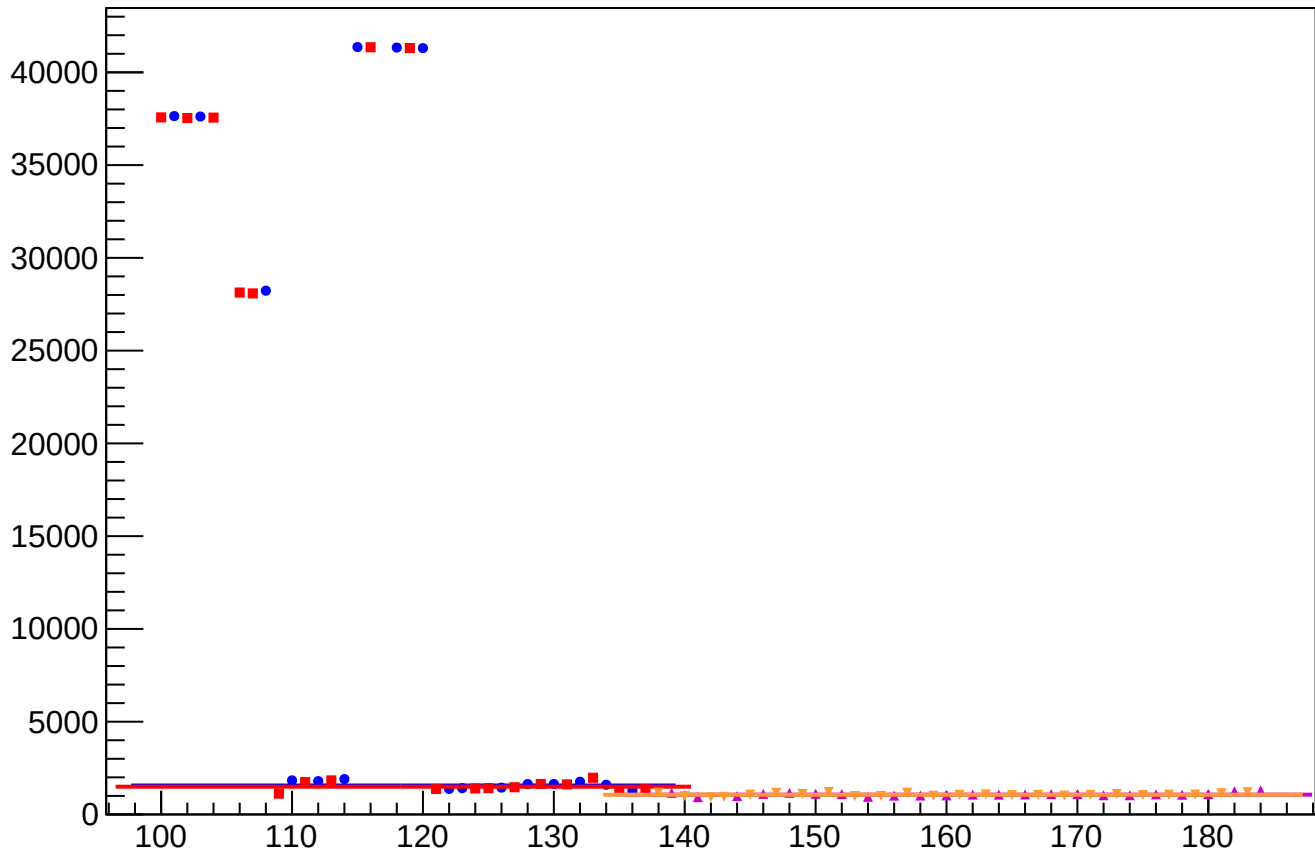
Right: -1.014 ± 0.517 χ^2/NDF : 38.7/35

In: -0.379 ± 0.243 χ^2/NDF : 46.0/39

Out: -0.151 ± 0.237 χ^2/NDF : 56.1/42

All: -0.262 ± 0.170 χ^2/NDF : 102.6/82

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1560.531 $\pm$ 0.531 χ^2/NDF : 4753218.6/16

Left Out: 1062.603 $\pm$ 0.177 χ^2/NDF : 162455.1/23

Right Out: 1496.346 $\pm$ 0.504 χ^2/NDF : 4893466.6/18

Left In: 1066.255 $\pm$ 0.182 χ^2/NDF : 164232.1/22

Left: 1064.386 $\pm$ 0.127 χ^2/NDF : 326894.0/46

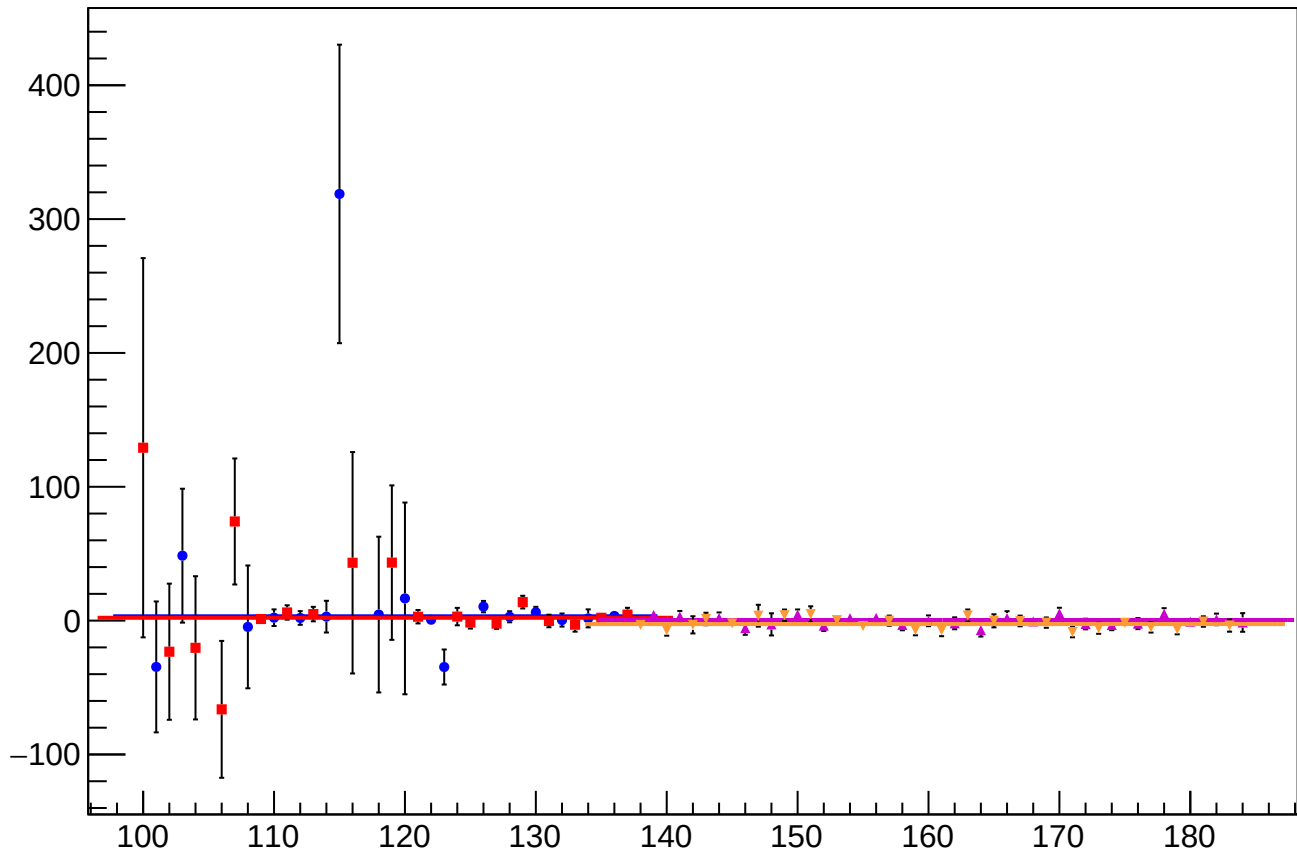
Right: 1526.792 $\pm$ 0.366 χ^2/NDF : 9654372.3/35

In: 1118.105 $\pm$ 0.172 χ^2/NDF : 5693710.6/39

Out: 1110.401 $\pm$ 0.167 χ^2/NDF : 5714407.8/42

All: 1114.150 $\pm$ 0.120 χ^2/NDF : 11409149.6/80

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.232 ± 1.328 $\chi^2/\text{NDF}: 22.2/16$

Left Out: -2.569 ± 0.817 $\chi^2/\text{NDF}: 17.5/23$

Right Out: 2.138 ± 1.239 $\chi^2/\text{NDF}: 16.5/18$

Left In: 0.468 ± 0.843 $\chi^2/\text{NDF}: 15.5/22$

Left: -1.098 ± 0.587 $\chi^2/\text{NDF}: 39.7/46$

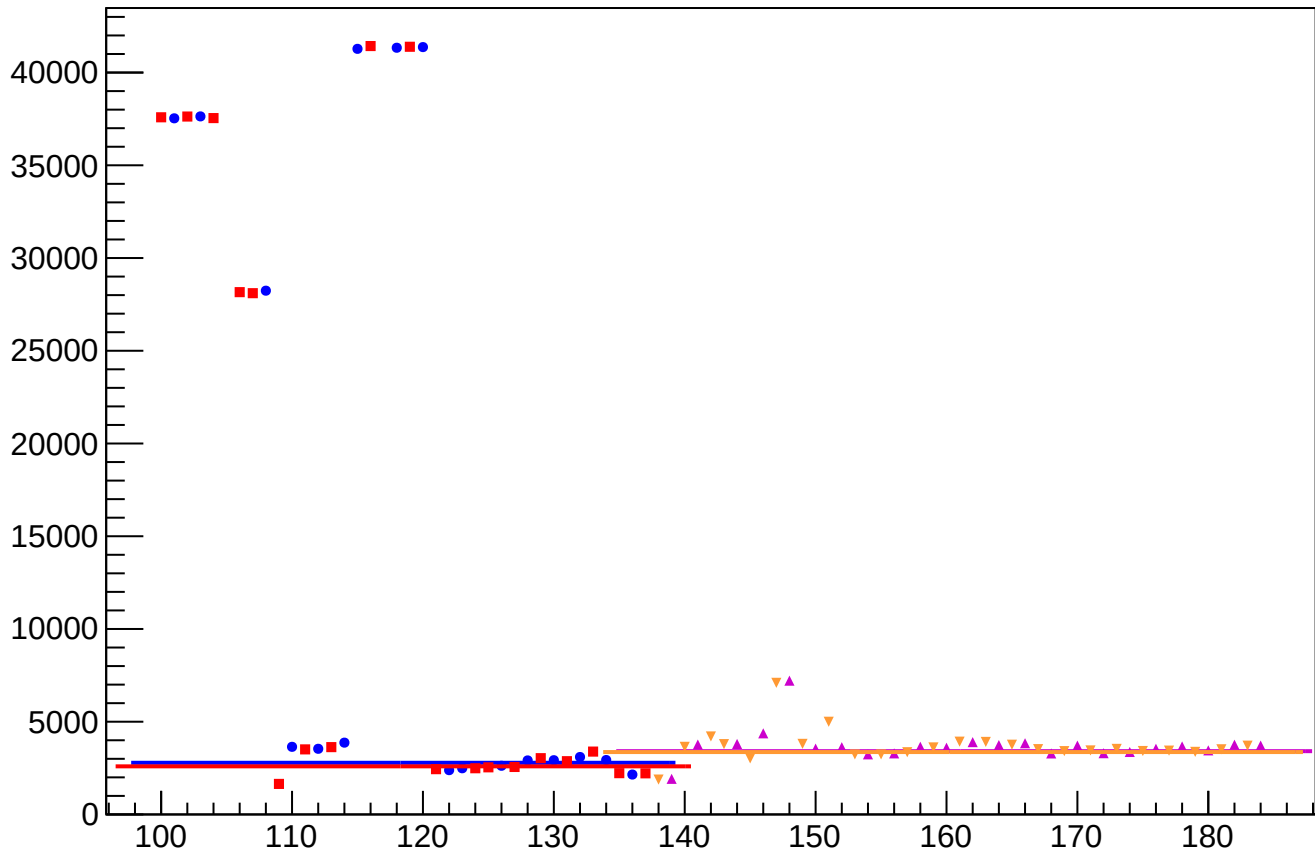
Right: 2.648 ± 0.906 $\chi^2/\text{NDF}: 39.1/35$

In: 1.262 ± 0.712 $\chi^2/\text{NDF}: 40.8/39$

Out: -1.143 ± 0.682 $\chi^2/\text{NDF}: 44.1/42$

All: 0.008 ± 0.492 $\chi^2/\text{NDF}: 90.8/82$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2786.135+/-0.939 χ^2/NDF : 4576694.3/16

Left Out: 3364.478+/-0.578 χ^2/NDF : 1642986.3/23

Right Out: 2593.843+/-0.876 χ^2/NDF : 4848397.1/18

Left In: 3411.924+/-0.596 χ^2/NDF : 1434523.7/22

Left: 3387.458+/-0.415 χ^2/NDF : 3080778.0/46

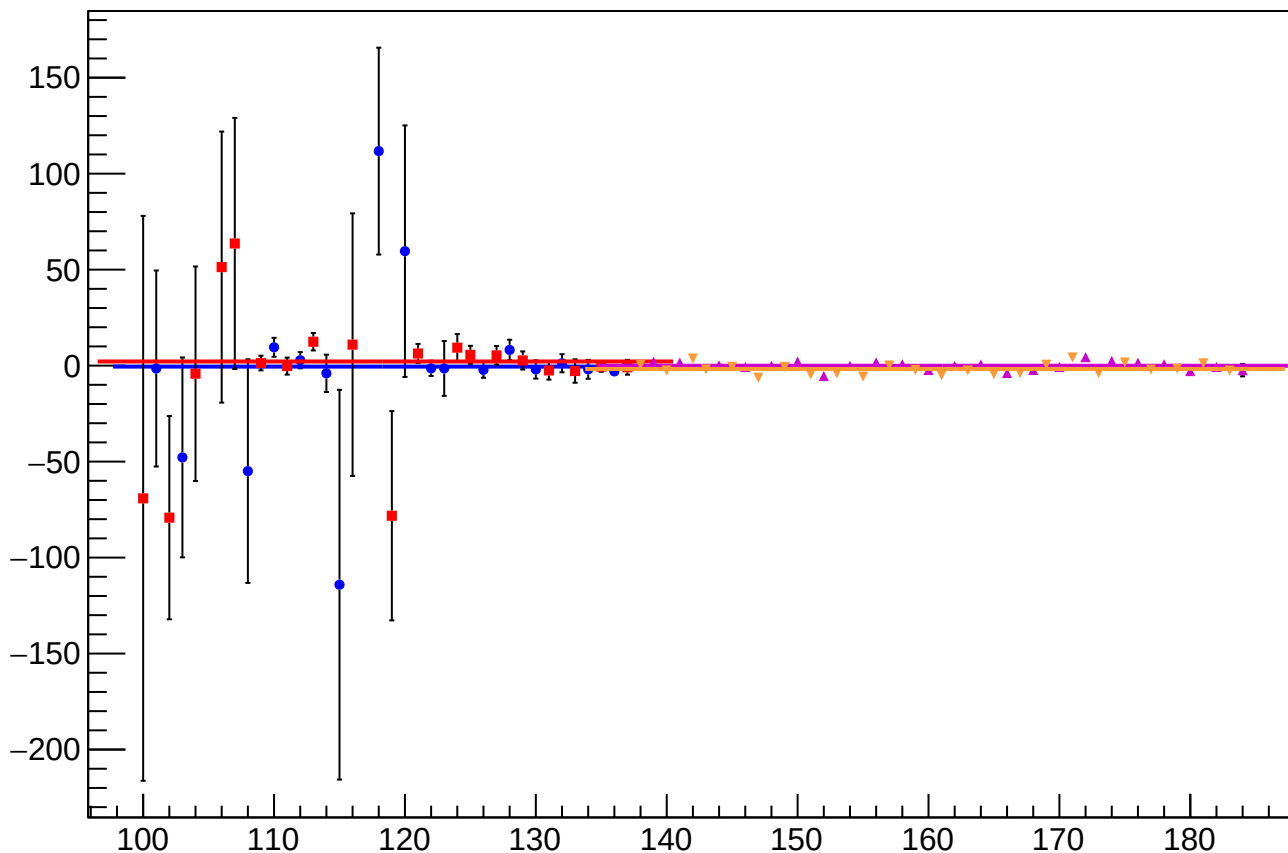
Right: 2683.369+/-0.641 χ^2/NDF : 9447510.4/35

In: 3232.179+/-0.503 χ^2/NDF : 6327890.6/39

Out: 3131.067+/-0.482 χ^2/NDF : 7030532.8/42

All: 3179.479+/-0.348 χ^2/NDF : 13379470.5/80

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.510 ± 1.222 χ^2/NDF : 18.0/16

Left Out: -1.744 ± 0.392 χ^2/NDF : 45.3/23

Right Out: 2.152 ± 1.250 χ^2/NDF : 17.6/18

Left In: -0.072 ± 0.401 χ^2/NDF : 28.2/22

Left: -0.927 ± 0.280 χ^2/NDF : 82.4/46

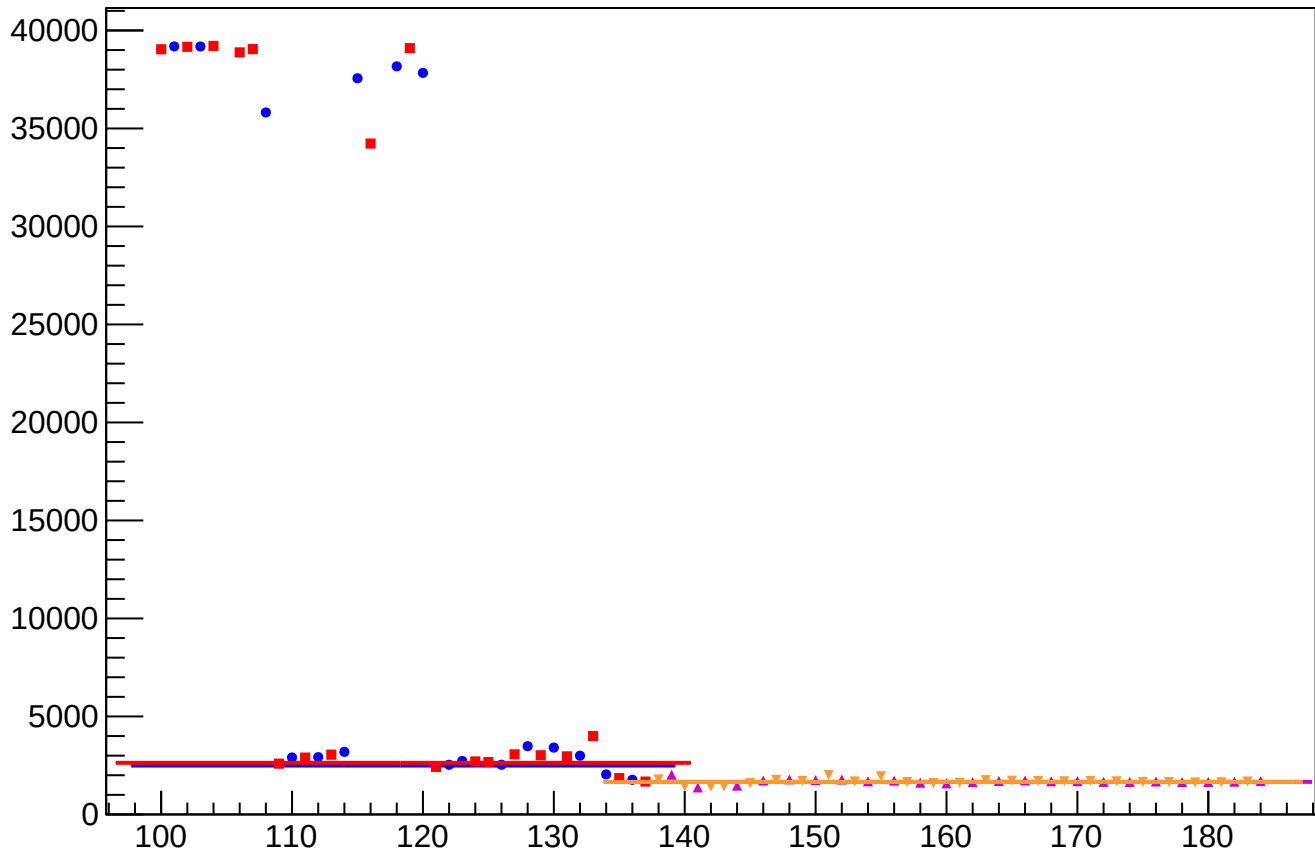
Right: 0.791 ± 0.874 χ^2/NDF : 37.9/35

In: -0.114 ± 0.381 χ^2/NDF : 46.3/39

Out: -1.395 ± 0.374 χ^2/NDF : 71.7/42

All: -0.766 ± 0.267 χ^2/NDF : 123.8/82

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2496.856 +/- 0.864 χ^2/NDF : 4887806.1/16

Left Out: 1658.937 +/- 0.277 χ^2/NDF : 215710.1/23

Right Out: 2634.601 +/- 0.884 χ^2/NDF : 4861733.2/18

Left In: 1663.620 +/- 0.284 χ^2/NDF : 178858.2/22

Left: 1661.226 +/- 0.198 χ^2/NDF : 394707.7/46

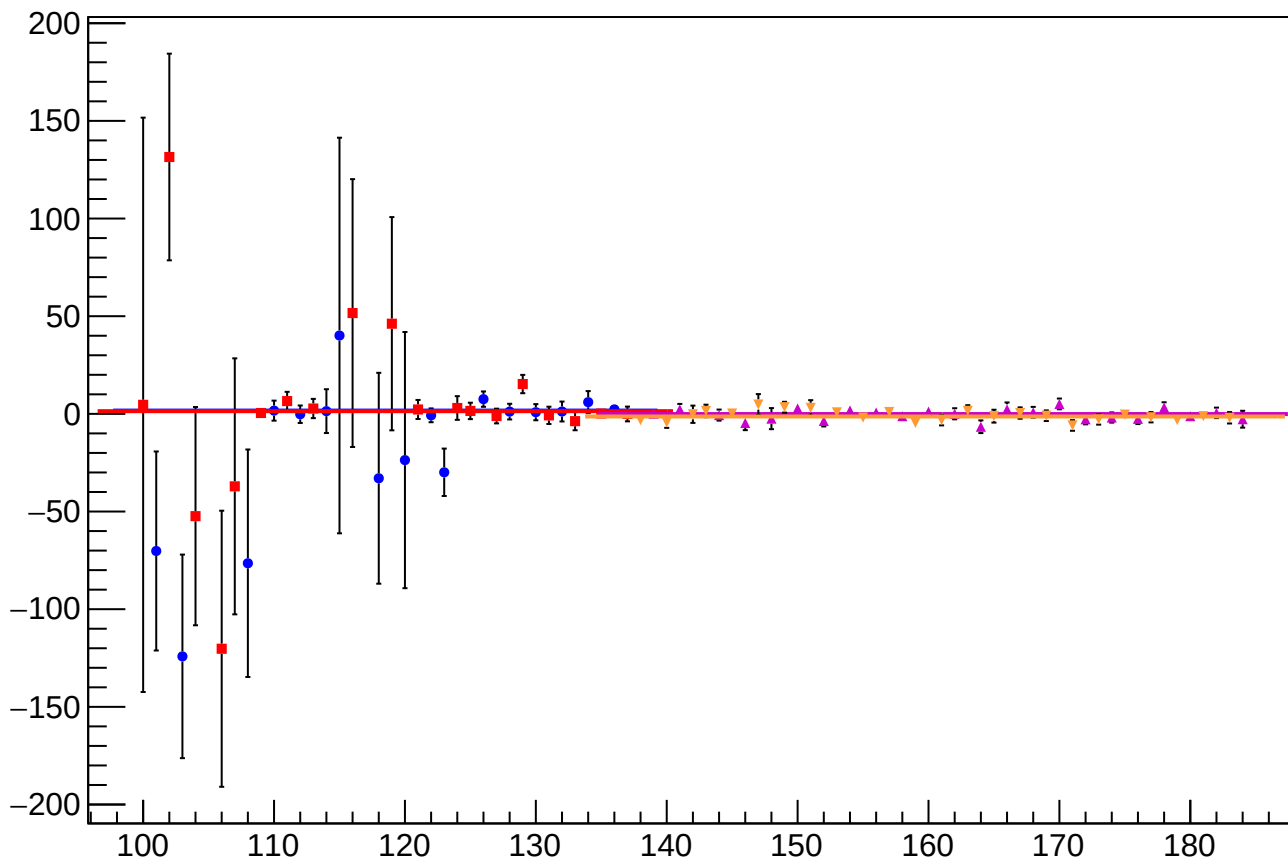
Right: 2564.162 +/- 0.618 χ^2/NDF : 9761958.6/35

In: 1744.655 +/- 0.269 χ^2/NDF : 5906260.3/39

Out: 1746.372 +/- 0.265 χ^2/NDF : 6186691.7/42

All: 1745.529 +/- 0.189 χ^2/NDF : 12092972.6/80

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.671 ± 1.146 $\chi^2/\text{NDF}: 20.7/16$

Left Out: -1.340 ± 0.540 $\chi^2/\text{NDF}: 19.1/23$

Right Out: 1.380 ± 1.065 $\chi^2/\text{NDF}: 24.1/18$

Left In: -0.098 ± 0.541 $\chi^2/\text{NDF}: 19.3/22$

Left: -0.721 ± 0.382 $\chi^2/\text{NDF}: 41.0/46$

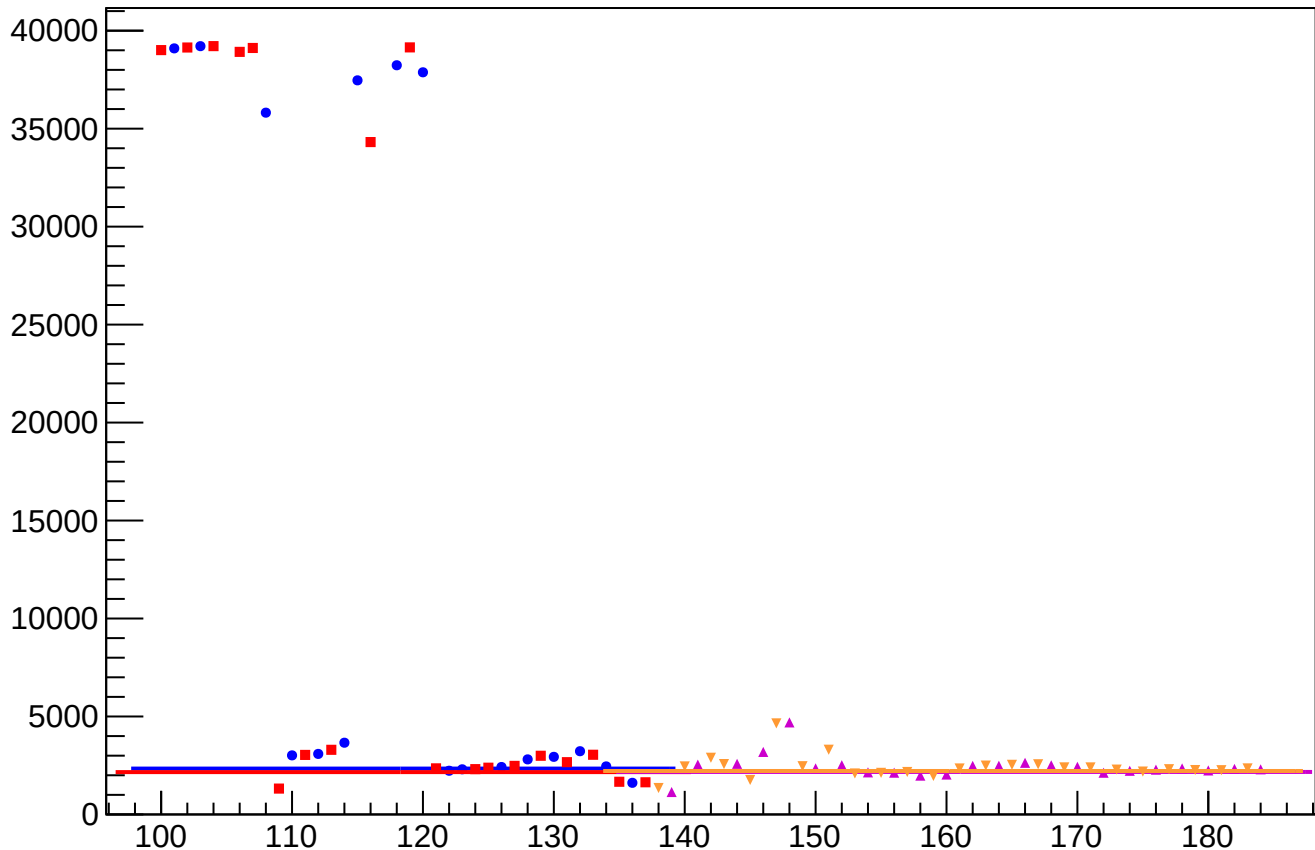
Right: 1.515 ± 0.780 $\chi^2/\text{NDF}: 44.9/35$

In: 0.225 ± 0.489 $\chi^2/\text{NDF}: 42.0/39$

Out: -0.785 ± 0.481 $\chi^2/\text{NDF}: 48.4/42$

All: -0.288 ± 0.343 $\chi^2/\text{NDF}: 92.5/82$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2341.220+/-0.810 χ^2/NDF : 5006482.9/16

Left Out: 2218.212+/-0.382 χ^2/NDF : 1413738.1/23

Right Out: 2161.211+/-0.753 χ^2/NDF : 5301782.5/18

Left In: 2169.443+/-0.383 χ^2/NDF : 1974869.8/22

Left: 2193.898+/-0.270 χ^2/NDF : 3396751.3/46

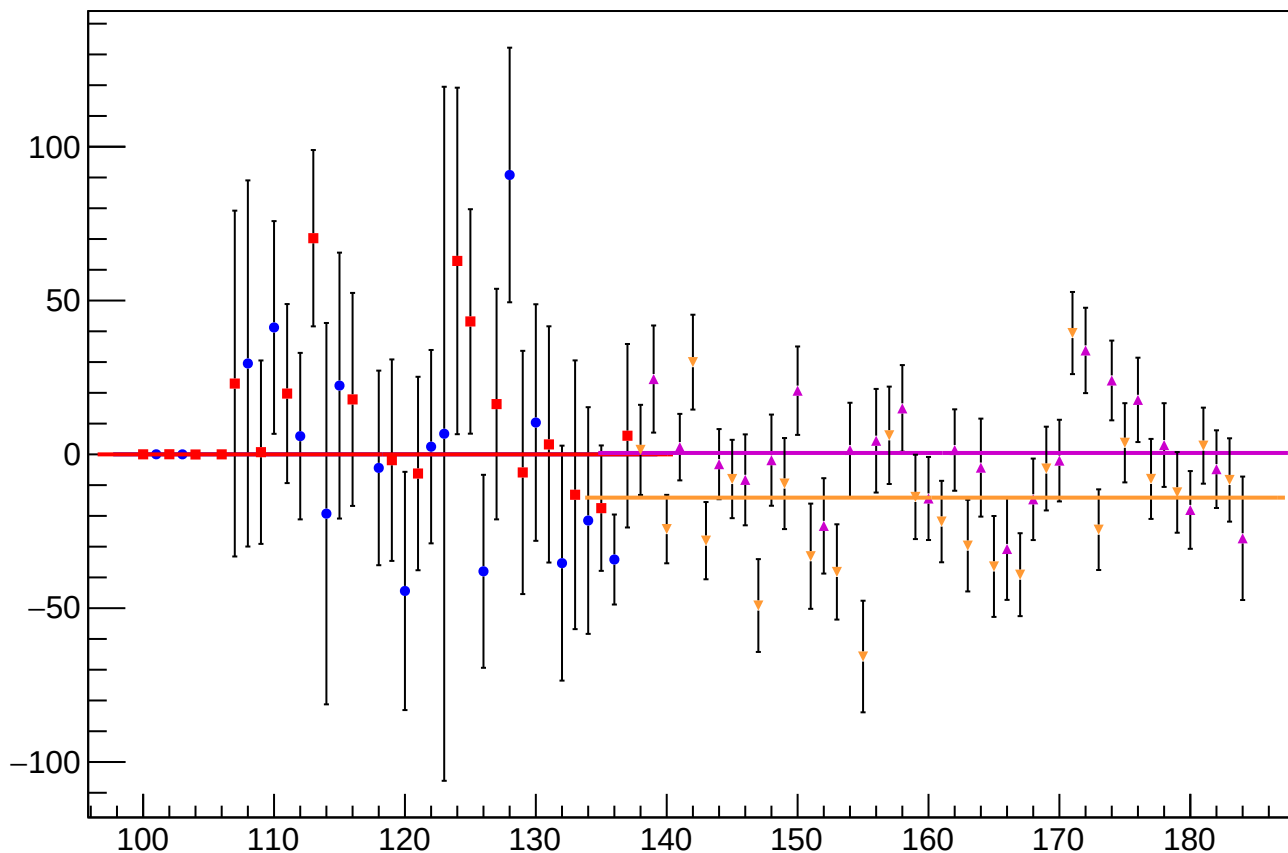
Right: 2244.647+/-0.552 χ^2/NDF : 10334729.3/35

In: 2200.759+/-0.346 χ^2/NDF : 7018083.3/39

Out: 2206.573+/-0.340 χ^2/NDF : 6720076.5/42

All: 2203.714+/-0.243 χ^2/NDF : 13738303.3/80

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 χ^2/NDF : 16.6/16

Left Out: -14.065 ± 2.835 χ^2/NDF : 58.6/23

Right Out: -0.003 ± 0.016 χ^2/NDF : 15.5/18

Left In: 0.459 ± 2.917 χ^2/NDF : 29.0/22

Left: -7.008 ± 2.033 χ^2/NDF : 100.3/46

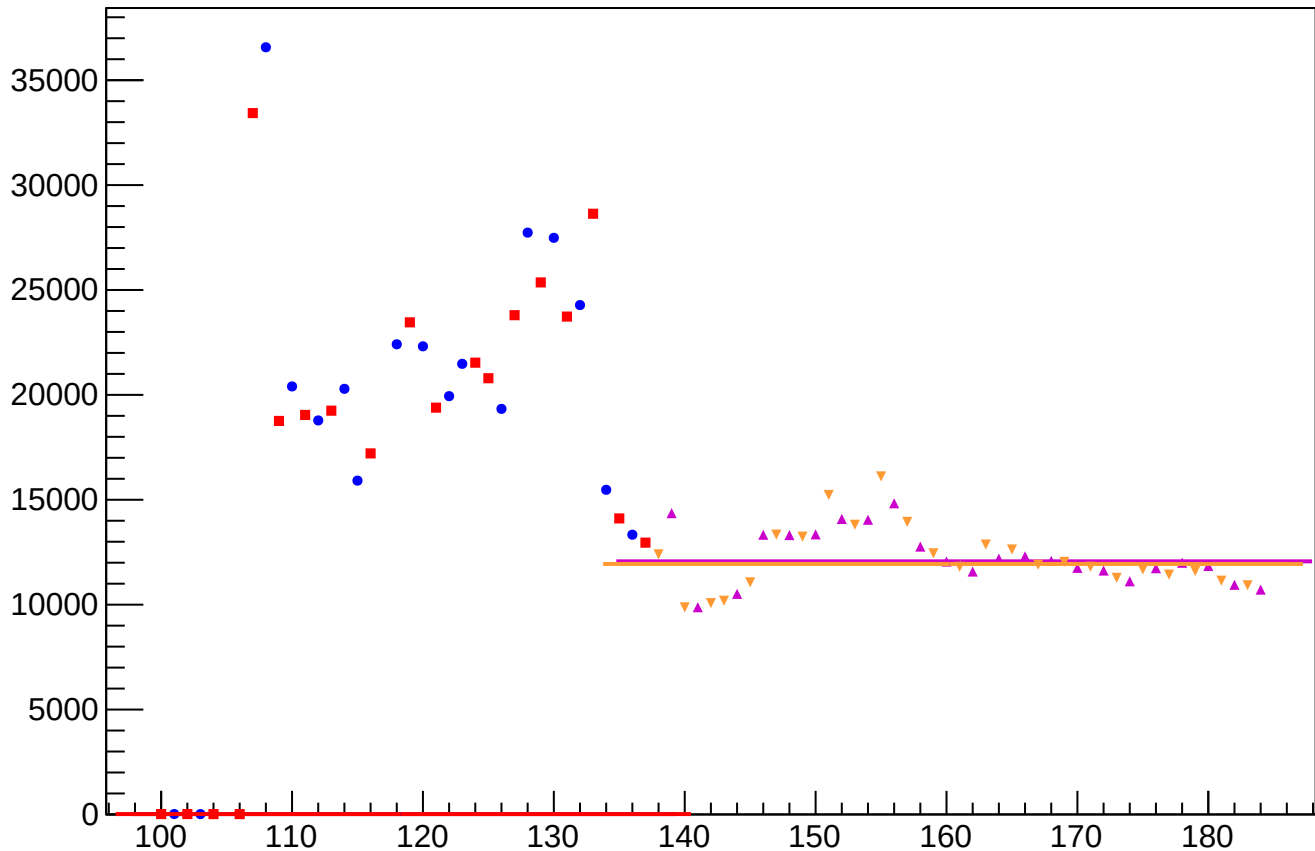
Right: 0.004 ± 0.012 χ^2/NDF : 32.6/35

In: 0.013 ± 0.017 χ^2/NDF : 45.6/39

Out: -0.004 ± 0.016 χ^2/NDF : 98.7/42

All: 0.004 ± 0.012 χ^2/NDF : 144.8/82

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641+/-0.012 χ^2/NDF : 10941777.3/16

Left Out: 11940.738+/-2.005 χ^2/NDF : 466998.7/23

Right Out: 18.311+/-0.011 χ^2/NDF : 11063399.8/18

Left In: 12064.761+/-2.062 χ^2/NDF : 368452.5/22

Left: 12000.997+/-1.438 χ^2/NDF : 837310.4/46

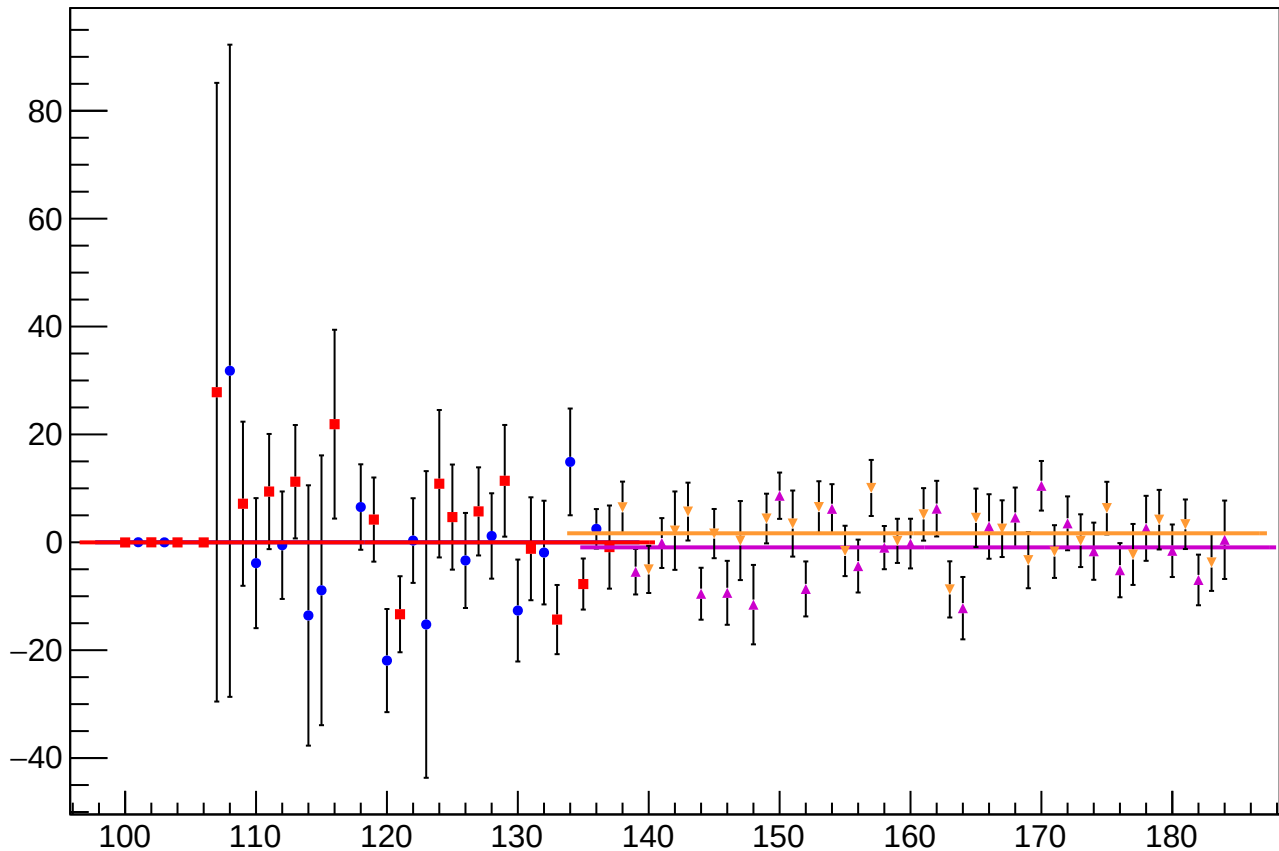
Right: 18.464+/-0.008 χ^2/NDF : 22005567.3/35

In: 19.067+/-0.012 χ^2/NDF : 45424095.9/39

Out: 18.694+/-0.011 χ^2/NDF : 46890498.7/42

All: 18.866+/-0.008 χ^2/NDF : 92315091.4/82

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.009 χ^2/NDF : 12.9/16

Left Out: 1.671+/-1.034 χ^2/NDF : 17.7/23

Right Out: -0.014+/-0.009 χ^2/NDF : 18.8/18

Left In: -0.939+/-1.049 χ^2/NDF : 35.6/22

Left: 0.385+/-0.736 χ^2/NDF : 56.5/46

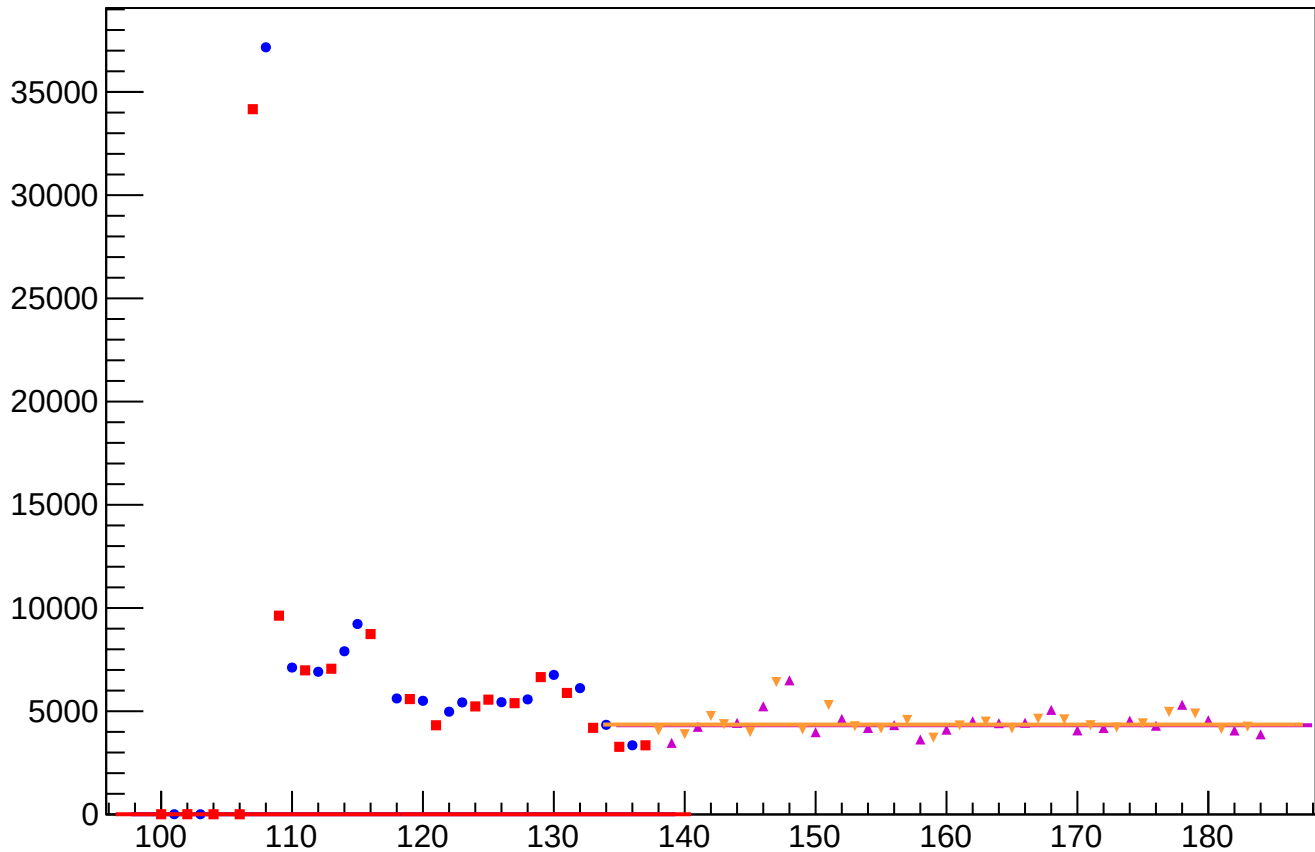
Right: -0.007+/-0.006 χ^2/NDF : 33.0/35

In: 0.001+/-0.009 χ^2/NDF : 49.3/39

Out: -0.014+/-0.009 χ^2/NDF : 39.2/42

All: -0.007+/-0.006 χ^2/NDF : 89.8/82

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939+/-0.007 χ^2/NDF : 11067258.7/16

Left Out: 4354.532+/-0.731 χ^2/NDF : 378840.4/23

Right Out: 9.854+/-0.006 χ^2/NDF : 11113759.9/18

Left In: 4321.572+/-0.741 χ^2/NDF : 514603.2/22

Left: 4338.288+/-0.520 χ^2/NDF : 894445.9/46

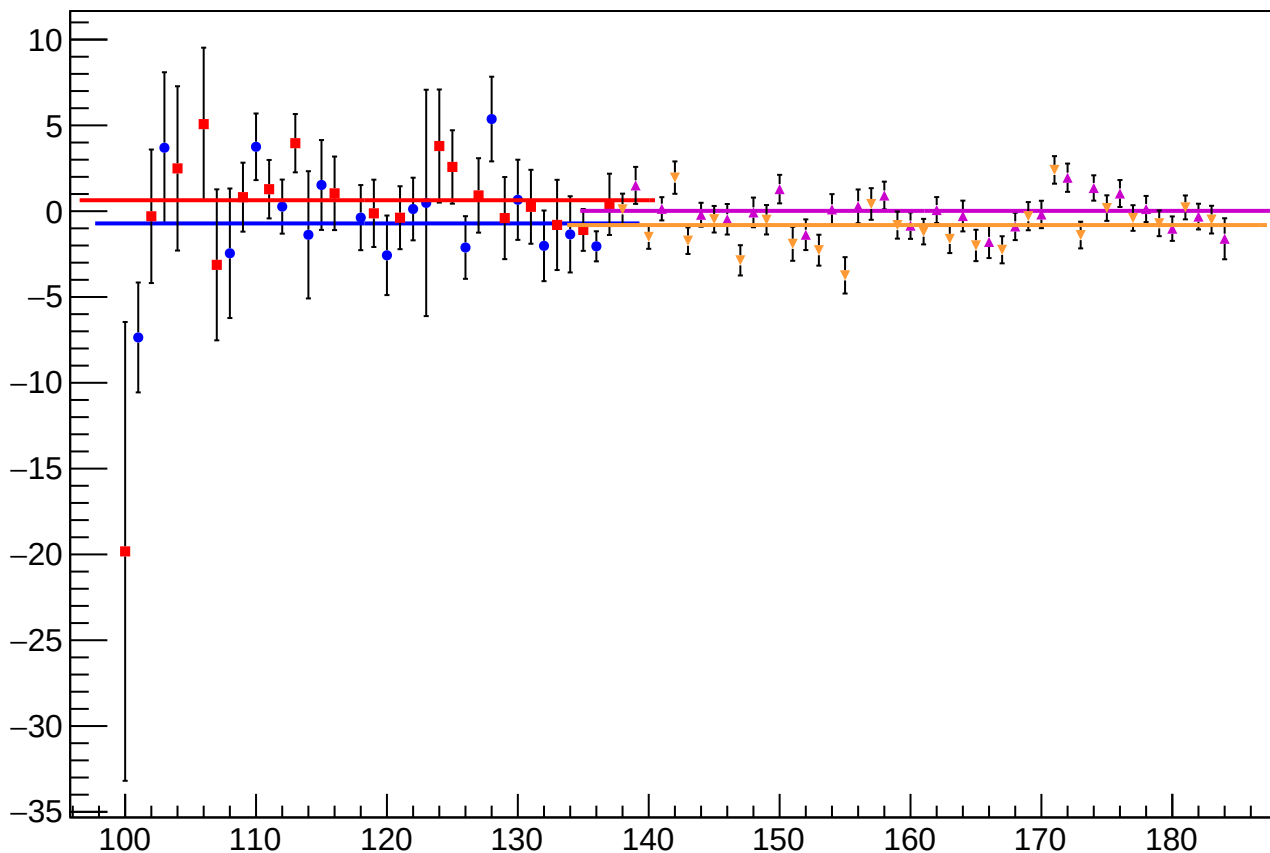
Right: 9.894+/-0.004 χ^2/NDF : 22181108.5/35

In: 10.271+/-0.007 χ^2/NDF : 45399007.8/39

Out: 10.158+/-0.006 χ^2/NDF : 46826594.2/42

All: 10.211+/-0.004 χ^2/NDF : 92225760.5/82

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.713 $\pm$ 0.483 χ^2/NDF : 22.7/16

Left Out: -0.808 $\pm$ 0.167 χ^2/NDF : 58.7/23

Right Out: 0.638 $\pm$ 0.501 χ^2/NDF : 13.1/18

Left In: 0.018 $\pm$ 0.171 χ^2/NDF : 29.4/22

Left: -0.405 $\pm$ 0.119 χ^2/NDF : 100.1/46

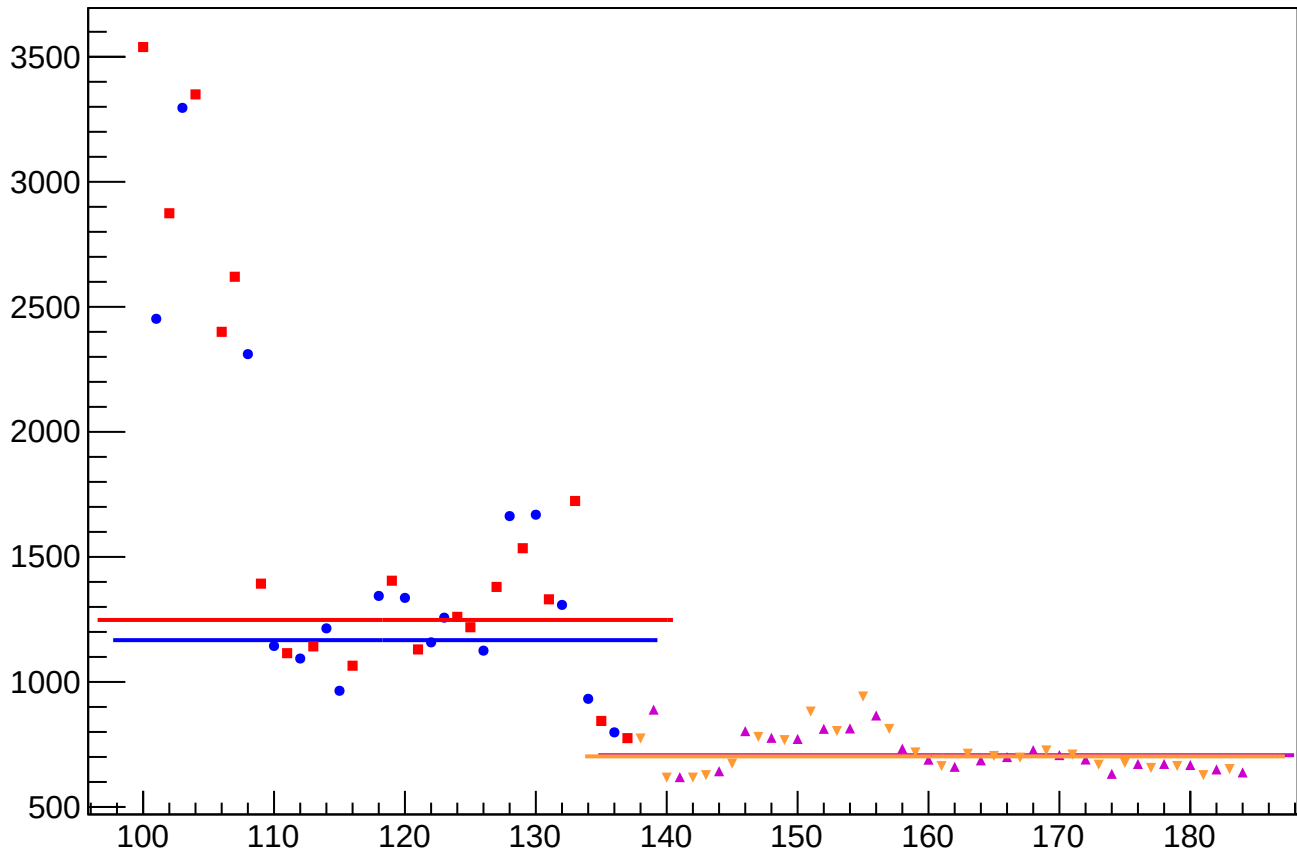
Right: -0.063 $\pm$ 0.348 χ^2/NDF : 39.5/35

In: -0.063 $\pm$ 0.161 χ^2/NDF : 54.2/39

Out: -0.665 $\pm$ 0.158 χ^2/NDF : 79.2/42

All: -0.369 $\pm$ 0.113 χ^2/NDF : 140.5/82

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.121+/-0.342 χ^2/NDF : 1580218.1/16

Left Out: 702.338+/-0.118 χ^2/NDF : 387245.9/23

Right Out: 1247.915+/-0.355 χ^2/NDF : 1653323.6/18

Left In: 706.971+/-0.121 χ^2/NDF : 332011.4/22

Left: 704.596+/-0.084 χ^2/NDF : 720011.7/46

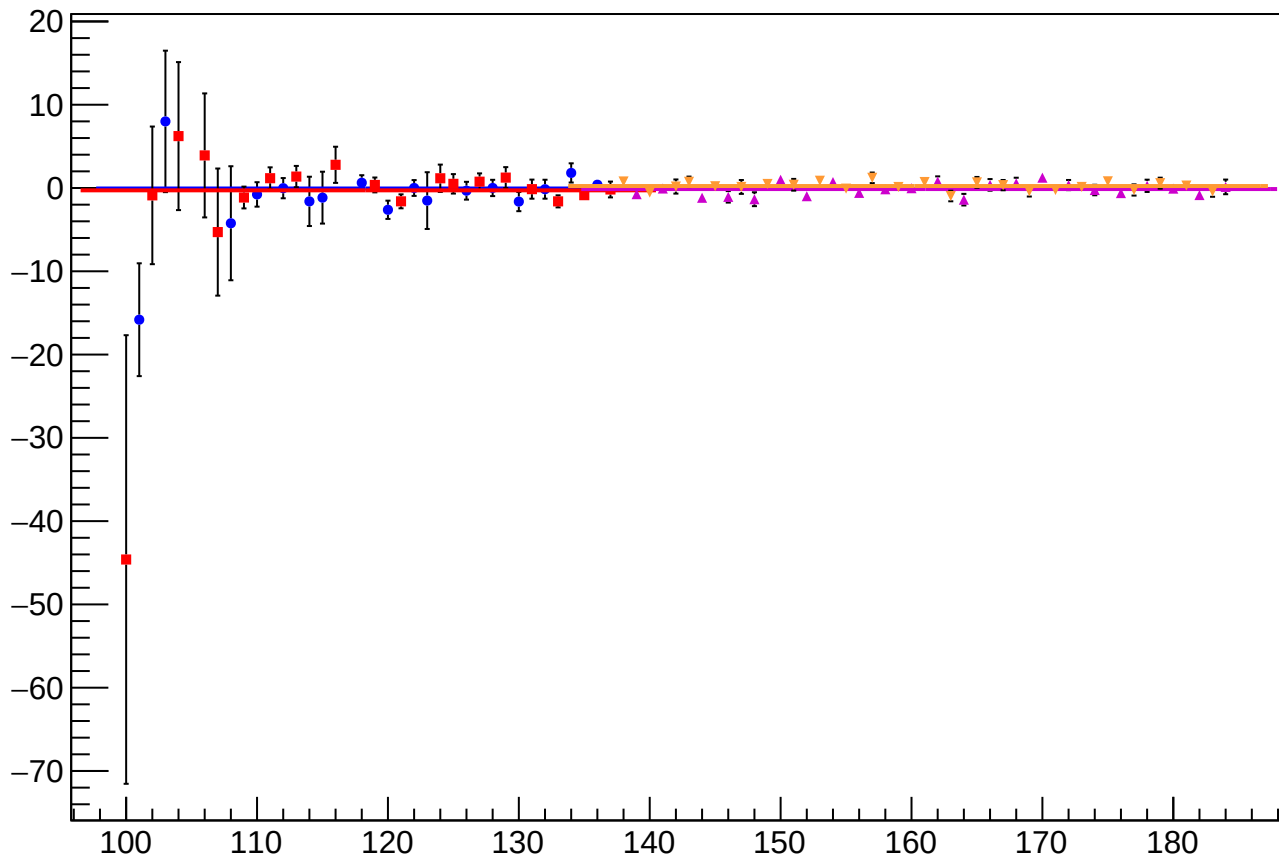
Right: 1206.012+/-0.246 χ^2/NDF : 3260466.3/35

In: 758.082+/-0.114 χ^2/NDF : 3525025.1/39

Out: 756.529+/-0.112 χ^2/NDF : 4172652.8/42

All: 757.291+/-0.080 χ^2/NDF : 7697772.6/82

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.269 χ^2/NDF : 19.1/16

Left Out: 0.237 ± 0.124 χ^2/NDF : 17.3/23

Right Out: -0.280 ± 0.264 χ^2/NDF : 20.5/18

Left In: -0.126 ± 0.126 χ^2/NDF : 35.0/22

Left: 0.059 ± 0.088 χ^2/NDF : 56.4/46

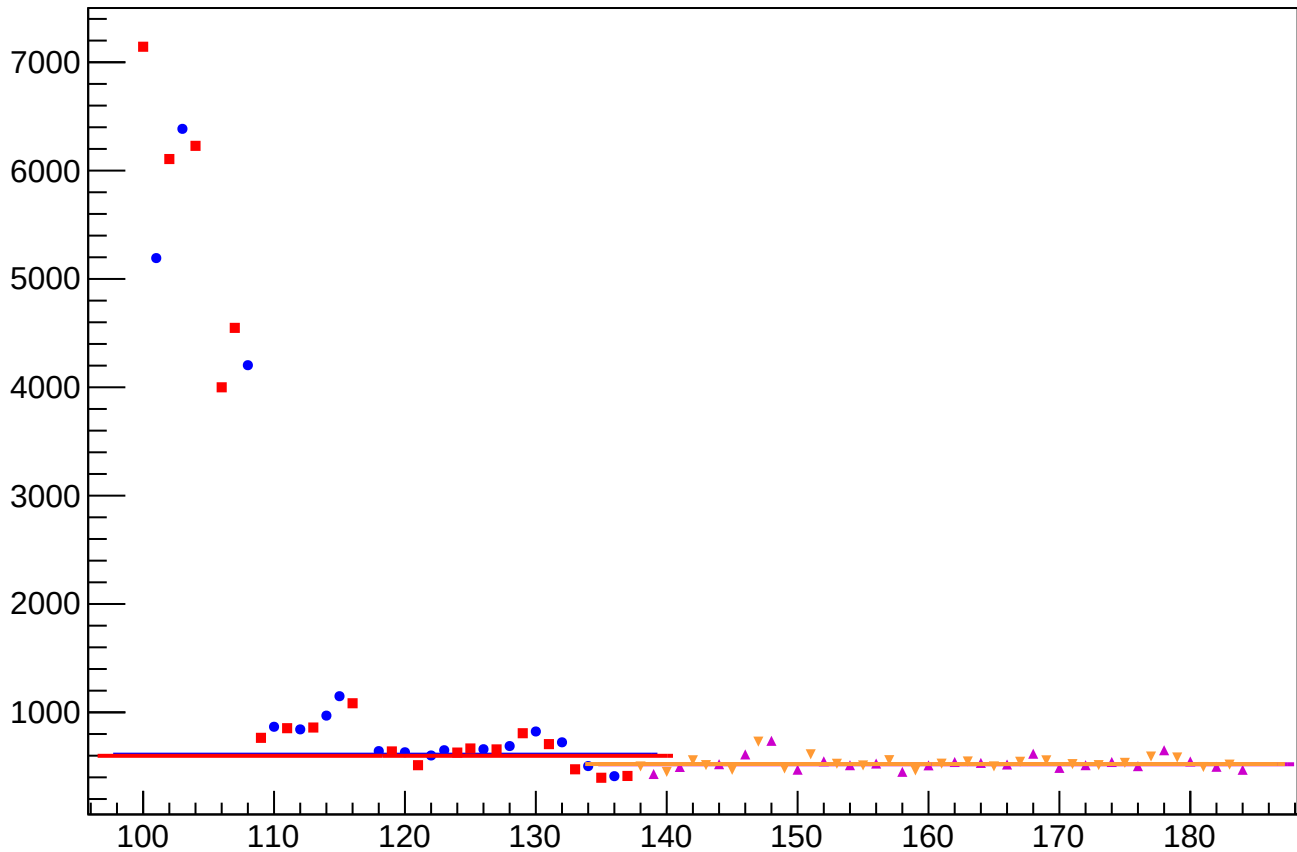
Right: -0.172 ± 0.189 χ^2/NDF : 40.0/35

In: -0.114 ± 0.114 χ^2/NDF : 54.1/39

Out: 0.144 ± 0.112 χ^2/NDF : 40.9/42

All: 0.017 ± 0.080 χ^2/NDF : 97.6/82

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.385+/-0.190 χ^2/NDF : 3134318.6/16

Left Out: 522.870+/-0.088 χ^2/NDF : 326586.4/23

Right Out: 598.820+/-0.187 χ^2/NDF : 3552236.2/18

Left In: 520.700+/-0.089 χ^2/NDF : 427720.5/22

Left: 521.804+/-0.063 χ^2/NDF : 754607.7/46

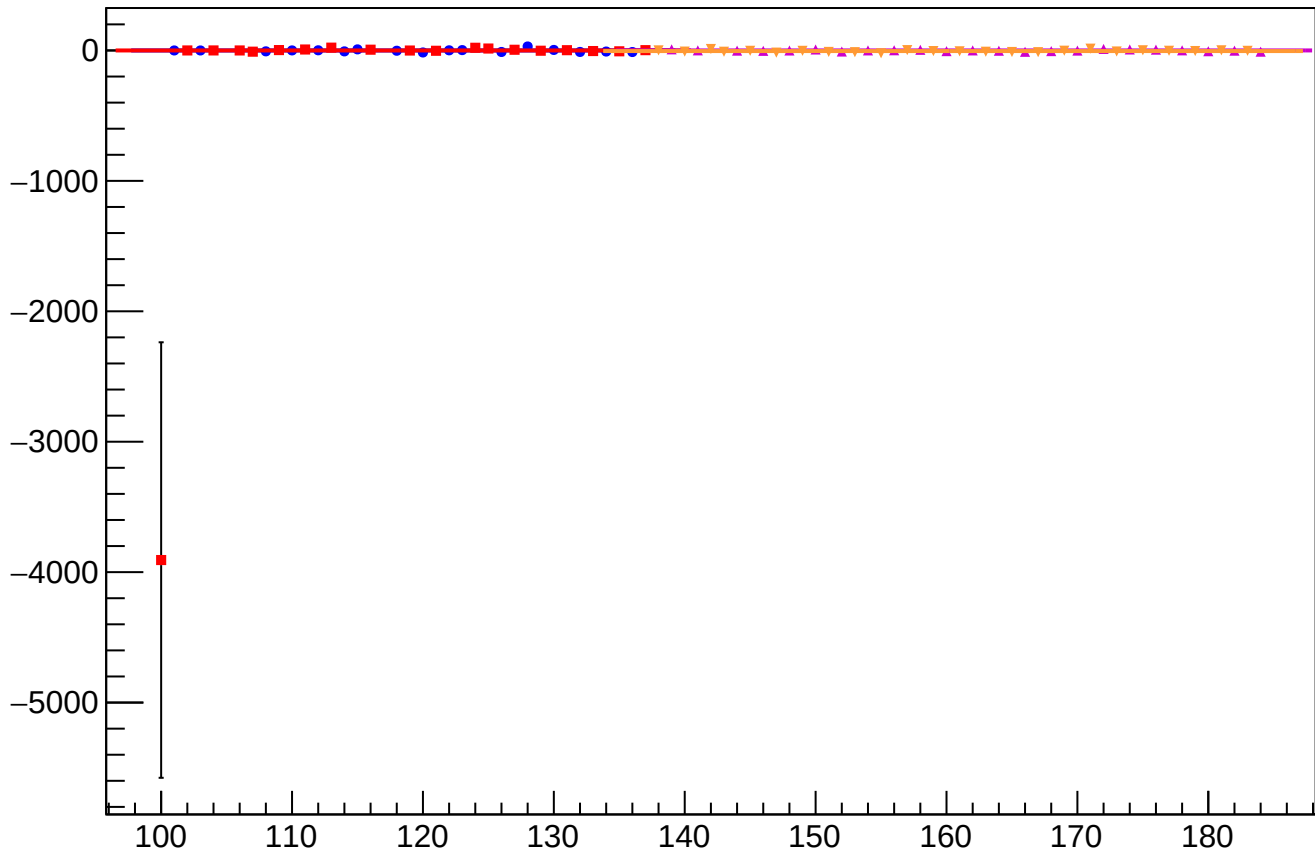
Right: 604.012+/-0.133 χ^2/NDF : 6688123.9/35

In: 536.687+/-0.081 χ^2/NDF : 3740237.6/39

Out: 536.559+/-0.079 χ^2/NDF : 4014088.3/42

All: 536.622+/-0.057 χ^2/NDF : 7754327.2/82

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.0/16

Left Out: -4.684 ± 0.969 χ^2/NDF : 58.4/23

Right Out: 0.027 ± 0.020 χ^2/NDF : 17.4/18

Left In: 0.183 ± 0.994 χ^2/NDF : 29.5/22

Left: -2.313 ± 0.694 χ^2/NDF : 100.2/46

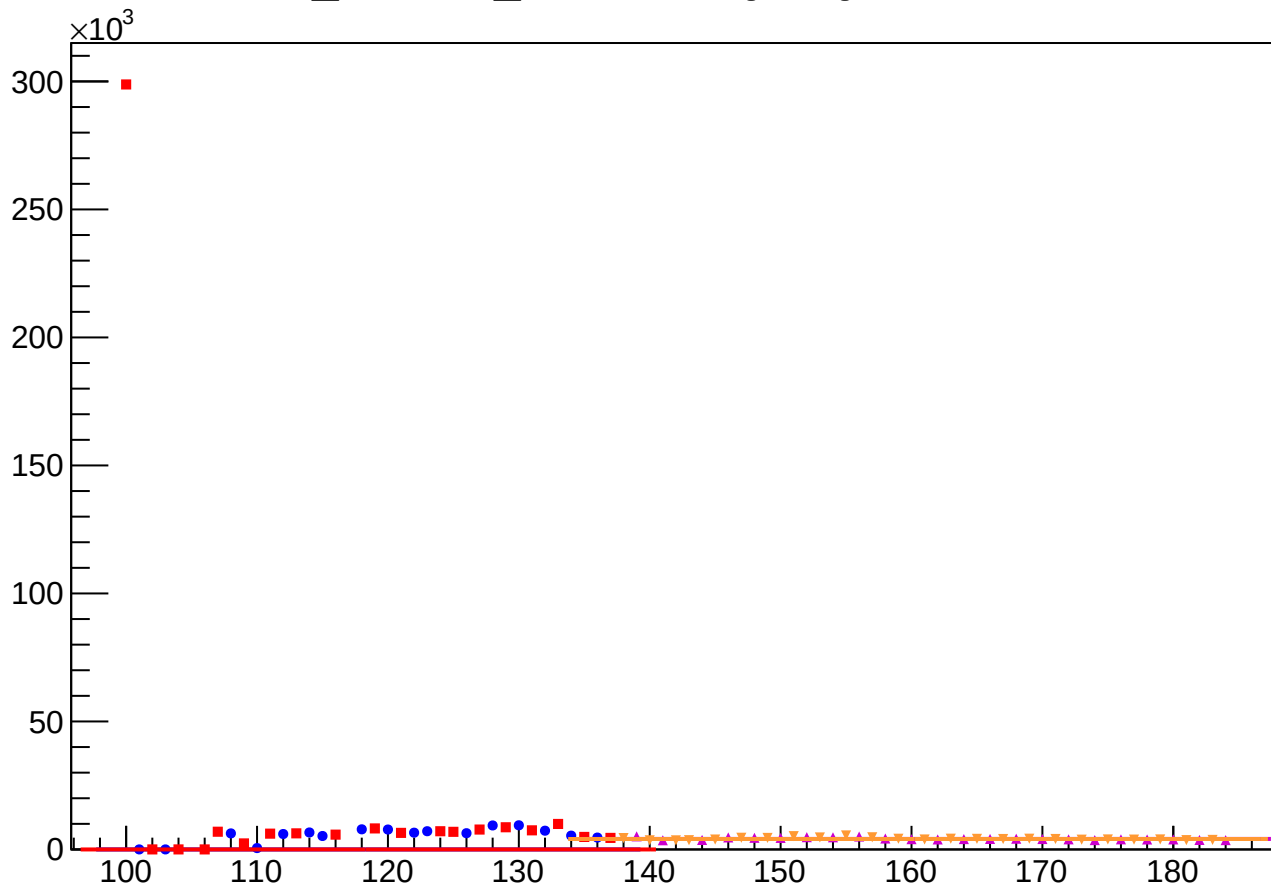
Right: 0.004 ± 0.014 χ^2/NDF : 36.3/35

In: -0.022 ± 0.021 χ^2/NDF : 45.5/39

Out: 0.025 ± 0.020 χ^2/NDF : 99.5/42

All: 0.003 ± 0.014 χ^2/NDF : 147.6/82

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.339 $\pm$ 0.015 χ^2 /NDF: 10457335.9/16

Left Out: 4084.308 $\pm$ 0.685 χ^2 /NDF: 410127.0/23

Right Out: 17.267 $\pm$ 0.014 χ^2 /NDF: 10773848.1/18

Left In: 4113.993 $\pm$ 0.703 χ^2 /NDF: 349160.6/22

Left: 4098.768 $\pm$ 0.491 χ^2 /NDF: 760202.4/46

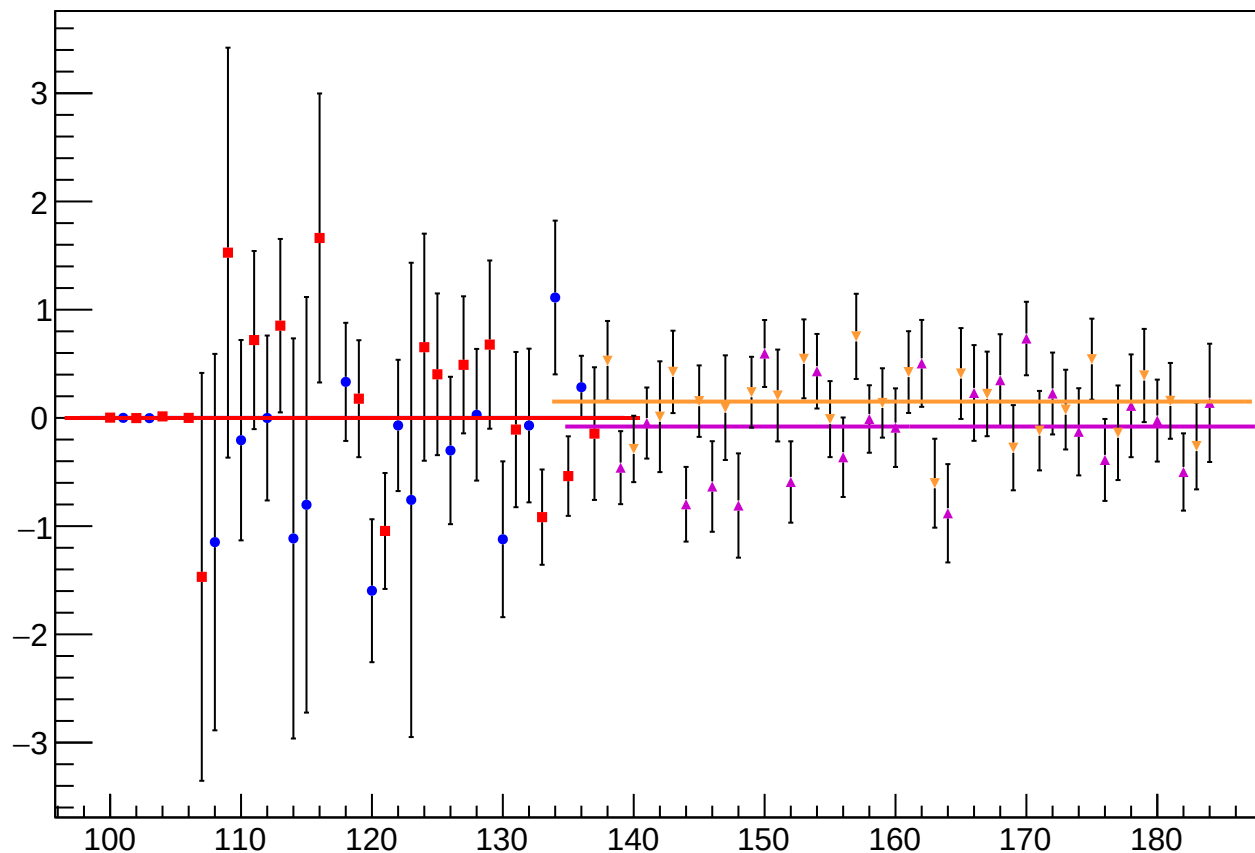
Right: 17.302 $\pm$ 0.010 χ^2 /NDF: 21231196.4/35

In: 19.131 $\pm$ 0.015 χ^2 /NDF: 44759872.6/39

Out: 18.962 $\pm$ 0.014 χ^2 /NDF: 46416364.5/42

All: 19.042 $\pm$ 0.010 χ^2 /NDF: 91176307.0/82

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2/NDF : 13.6/16

Left Out: 0.151 $\pm$ 0.077 χ^2/NDF : 16.5/23

Right Out: -0.001 $\pm$ 0.002 χ^2/NDF : 18.2/18

Left In: -0.080 $\pm$ 0.079 χ^2/NDF : 34.6/22

Left: 0.038 $\pm$ 0.055 χ^2/NDF : 55.5/46

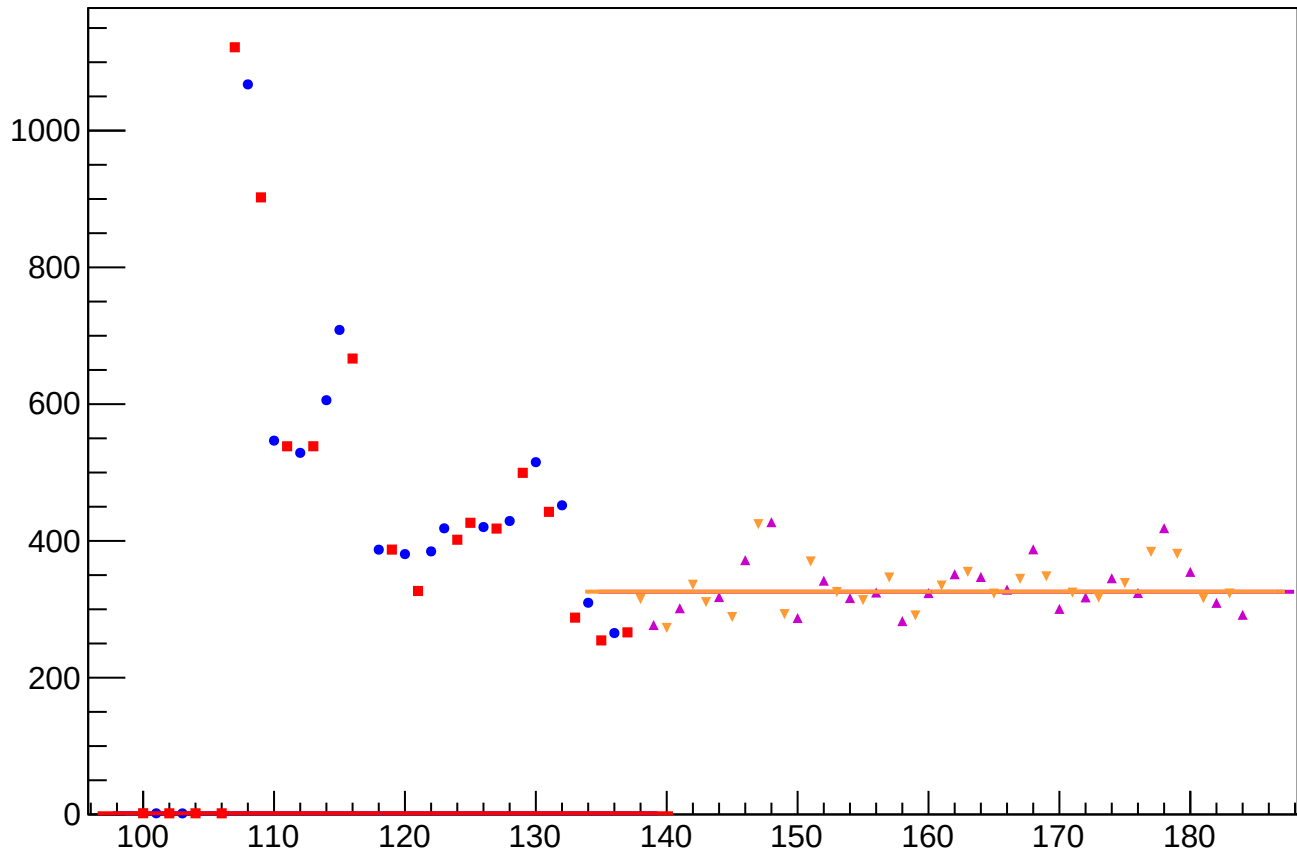
Right: -0.000 $\pm$ 0.001 χ^2/NDF : 31.9/35

In: 0.000 $\pm$ 0.002 χ^2/NDF : 49.3/39

Out: -0.001 $\pm$ 0.002 χ^2/NDF : 38.5/42

All: -0.000 $\pm$ 0.001 χ^2/NDF : 87.9/82

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 ± 0.001 χ^2/NDF : 11006381.5/16

Left Out: 325.830 ± 0.055 χ^2/NDF : 343179.5/23

Right Out: 1.728 ± 0.001 χ^2/NDF : 10697829.6/18

Left In: 325.626 ± 0.056 χ^2/NDF : 413350.0/22

Left: 325.730 ± 0.039 χ^2/NDF : 756536.3/46

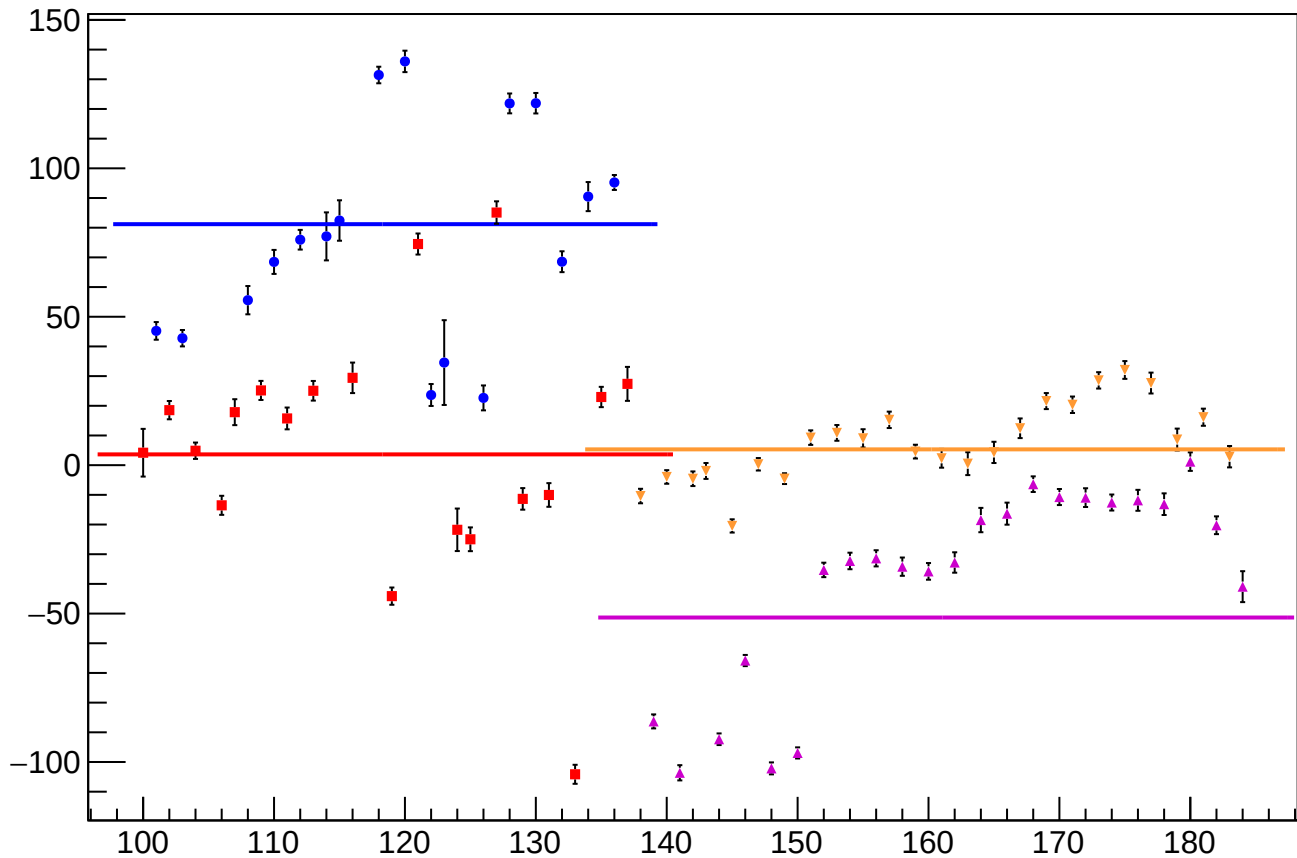
Right: 1.714 ± 0.001 χ^2/NDF : 21704428.1/35

In: 1.912 ± 0.001 χ^2/NDF : 45148541.4/39

Out: 1.932 ± 0.001 χ^2/NDF : 46194314.7/42

All: 1.923 ± 0.001 χ^2/NDF : 91342953.5/82

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 81.188 ± 0.887 $\chi^2/\text{NDF}: 1718.3/16$

Left Out: 5.321 ± 0.549 $\chi^2/\text{NDF}: 550.5/23$

Right Out: 3.632 ± 0.844 $\chi^2/\text{NDF}: 2593.1/18$

Left In: -51.328 ± 0.558 $\chi^2/\text{NDF}: 4257.8/22$

Left: -22.520 ± 0.391 $\chi^2/\text{NDF}: 10042.8/46$

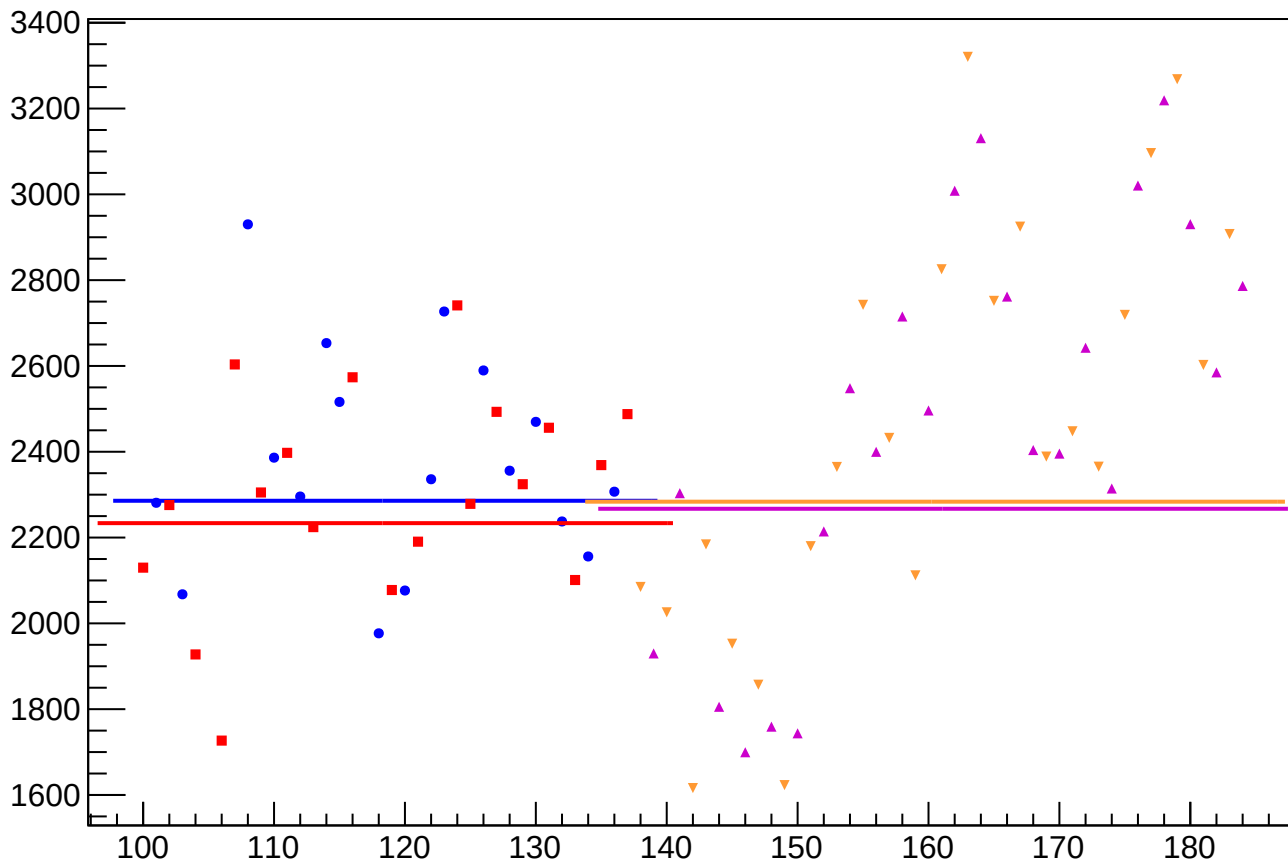
Right: 40.474 ± 0.611 $\chi^2/\text{NDF}: 8322.9/35$

In: -13.732 ± 0.473 $\chi^2/\text{NDF}: 21956.4/39$

Out: 4.819 ± 0.460 $\chi^2/\text{NDF}: 3146.4/42$

All: -4.210 ± 0.330 $\chi^2/\text{NDF}: 25893.9/82$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.757 ± 0.627 $\chi^2/\text{NDF}: 109159.1/16$

Left Out: 2283.624 ± 0.388 $\chi^2/\text{NDF}: 1345100.6/23$

Right Out: 2233.605 ± 0.597 $\chi^2/\text{NDF}: 147058.0/18$

Left In: 2267.097 ± 0.395 $\chi^2/\text{NDF}: 1313364.4/22$

Left: 2275.501 ± 0.277 $\chi^2/\text{NDF}: 2659356.0/46$

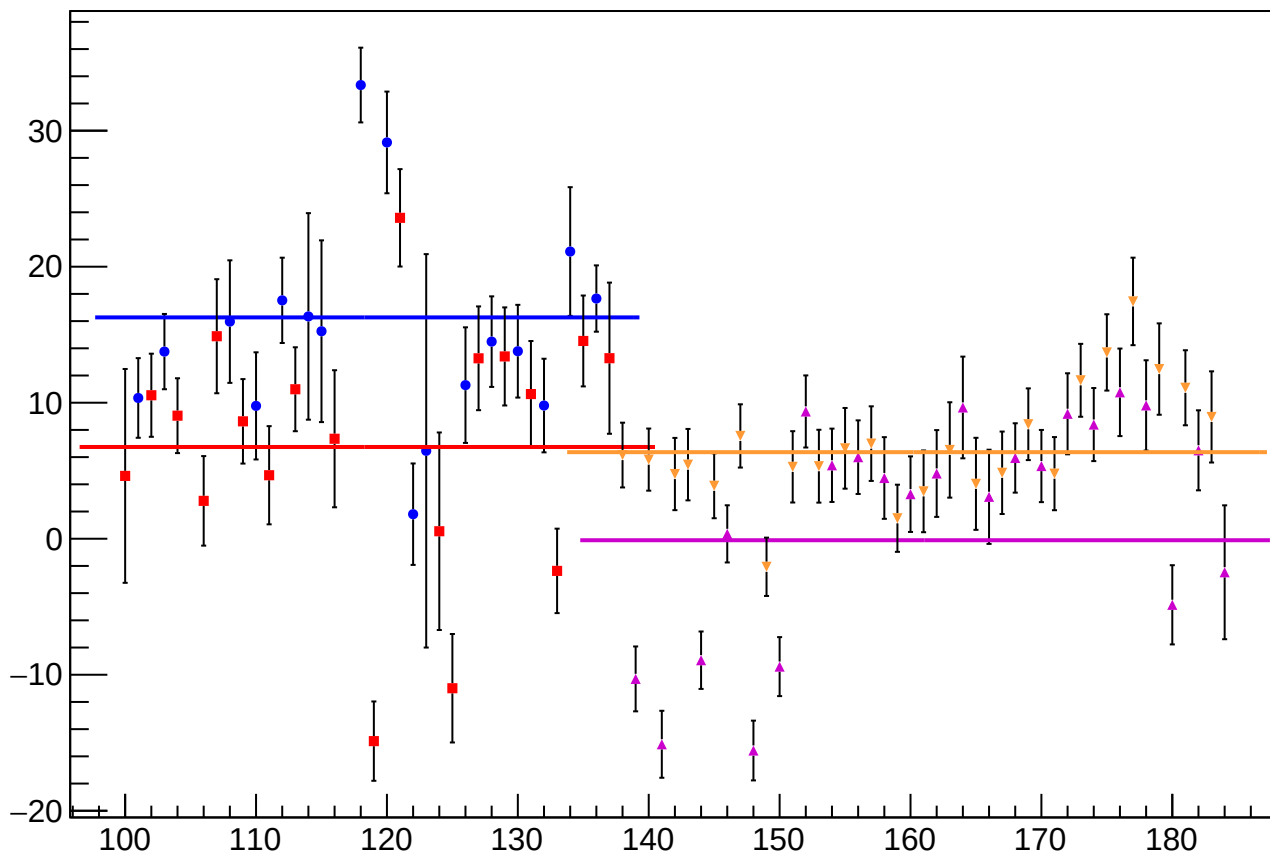
Right: 2258.379 ± 0.432 $\chi^2/\text{NDF}: 259845.0/35$

In: 2272.391 ± 0.334 $\chi^2/\text{NDF}: 1423157.2/39$

Out: 2268.755 ± 0.325 $\chi^2/\text{NDF}: 1497095.2/42$

All: 2270.524 ± 0.233 $\chi^2/\text{NDF}: 2920313.3/82$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.273 $\pm$ 0.873 χ^2 /NDF: 81.0/16

Left Out: 6.365 $\pm$ 0.553 χ^2 /NDF:53.6/23

Right Out: 6.745 $\pm$ 0.832 χ^2 /NDF: 130.5/18

Left In: -0.110 $\pm$ 0.565 χ^2 /NDF:234.6/22

Left: 3.198 $\pm$ 0.395 χ^2 /NDF: 355.3/46

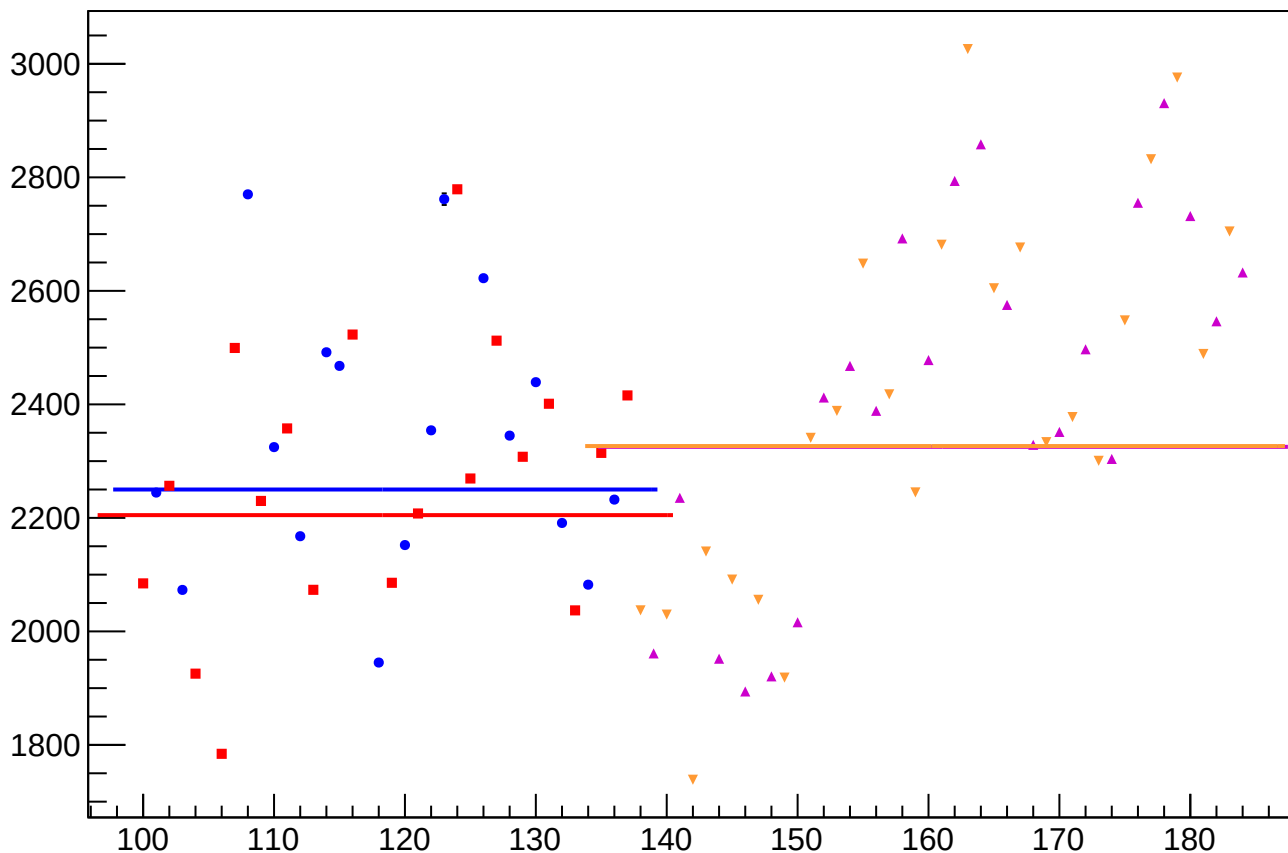
Right: 11.281 $\pm$ 0.602 χ^2 /NDF: 273.9/35

In: 4.728 $\pm$ 0.474 χ^2 /NDF:563.7/39

Out: 6.481 $\pm$ 0.461 χ^2 /NDF:184.3/42

All: 5.631 $\pm$ 0.330 χ^2 /NDF: 755.1/82

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2249.997 $\pm$ 0.617 χ^2/NDF : 97501.6/16

Left Out: 2326.551 $\pm$ 0.391 χ^2/NDF : 636880.2/23

Right Out: 2204.860 $\pm$ 0.588 χ^2/NDF : 126433.4/18

Left In: 2325.175 $\pm$ 0.400 χ^2/NDF : 610729.2/22

Left: 2325.878 $\pm$ 0.279 χ^2/NDF : 1247615.5/46

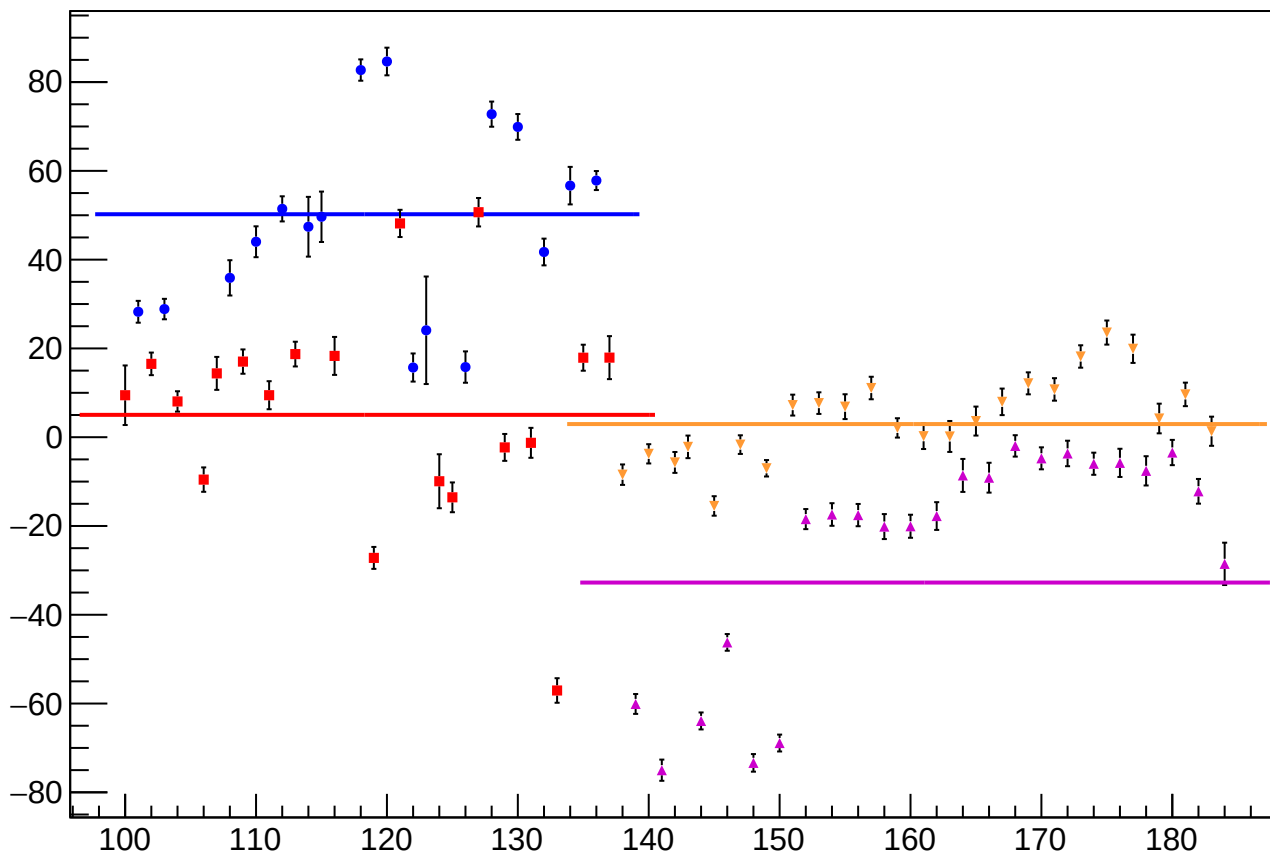
Right: 2226.349 $\pm$ 0.426 χ^2/NDF : 226736.2/35

In: 2302.972 $\pm$ 0.335 χ^2/NDF : 718683.1/39

Out: 2289.283 $\pm$ 0.326 χ^2/NDF : 792983.8/42

All: 2295.924 $\pm$ 0.234 χ^2/NDF : 1512524.1/82

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.230 ± 0.752 $\chi^2/\text{NDF}: 837.5/16$

Left Out: 2.961 ± 0.517 $\chi^2/\text{NDF}: 332.2/23$

Right Out: 5.035 ± 0.715 $\chi^2/\text{NDF}: 1259.3/18$

Left In: -32.745 ± 0.526 $\chi^2/\text{NDF}: 2632.5/22$

Left: -14.567 ± 0.369 $\chi^2/\text{NDF}: 5309.6/46$

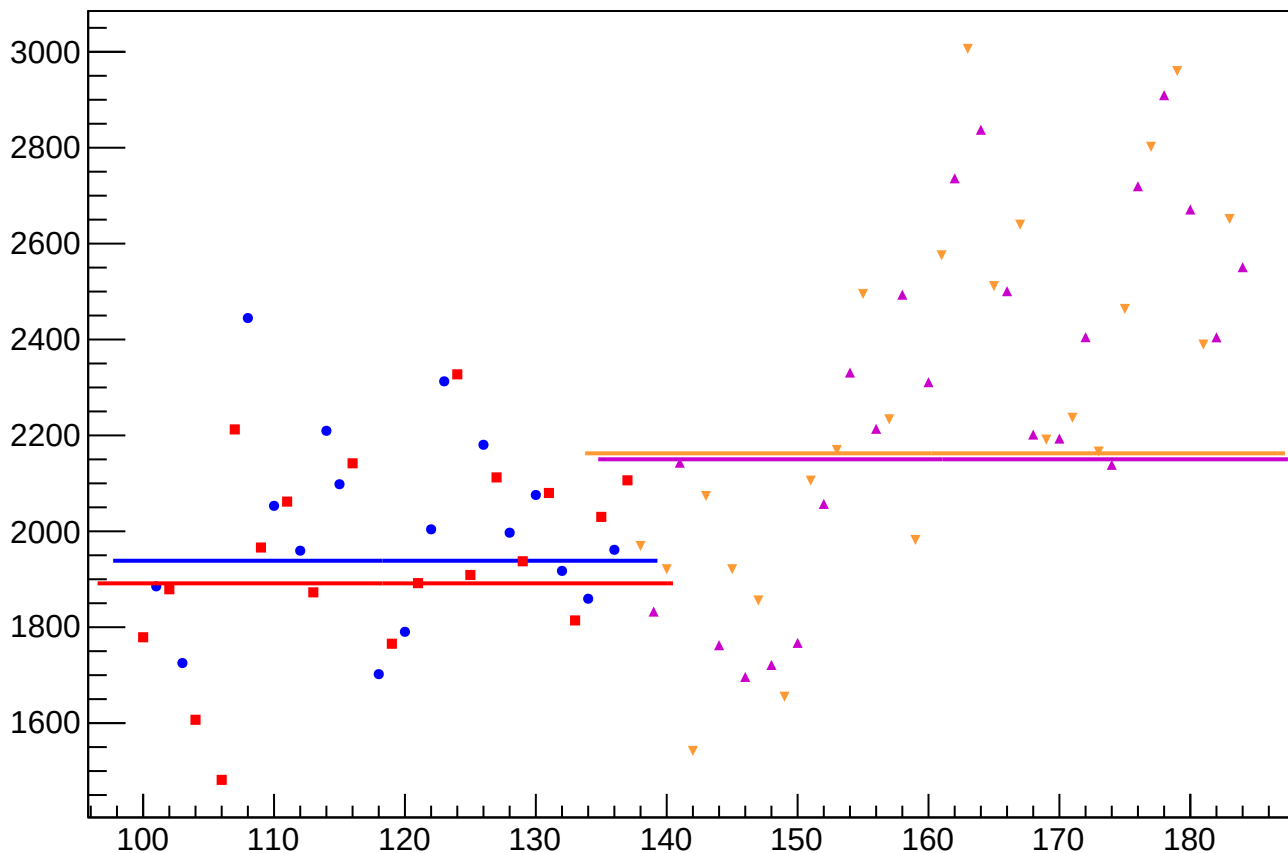
Right: 26.479 ± 0.518 $\chi^2/\text{NDF}: 3994.7/35$

In: -5.481 ± 0.431 $\chi^2/\text{NDF}: 11643.0/39$

Out: 3.673 ± 0.419 $\chi^2/\text{NDF}: 1597.1/42$

All: -0.770 ± 0.300 $\chi^2/\text{NDF}: 13472.0/82$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1938.613 $\pm$ 0.532 χ^2 /NDF: 100004.8/16

Left Out: 2162.629 $\pm$ 0.365 χ^2 /NDF: 954158.5/23

Right Out: 1891.458 $\pm$ 0.505 χ^2 /NDF: 146730.0/18

Left In: 2150.190 $\pm$ 0.372 χ^2 /NDF: 911849.7/22

Left: 2156.523 $\pm$ 0.261 χ^2 /NDF: 1866577.4/46

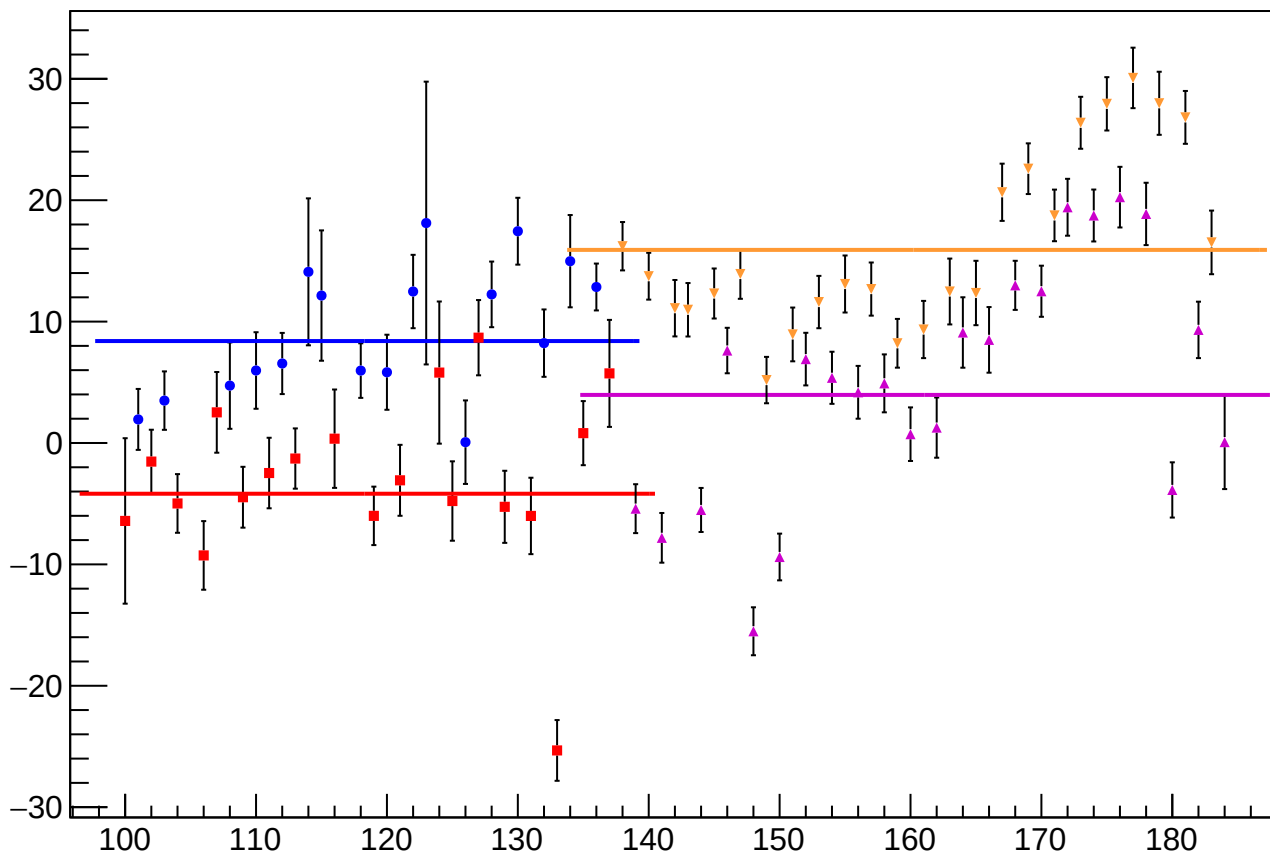
Right: 1913.832 $\pm$ 0.366 χ^2 /NDF: 250866.9/35

In: 2080.668 $\pm$ 0.305 χ^2 /NDF: 1118133.8/39

Out: 2069.551 $\pm$ 0.296 χ^2 /NDF: 1290033.6/42

All: 2074.947 $\pm$ 0.212 χ^2 /NDF: 2408851.7/82

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.398 ± 0.712 $\chi^2/\text{NDF}: 45.7/16$

Left Out: 15.907 ± 0.452 $\chi^2/\text{NDF}: 238.5/23$

Right Out: -4.180 ± 0.684 $\chi^2/\text{NDF}: 112.9/18$

Left In: 3.960 ± 0.463 $\chi^2/\text{NDF}: 464.9/22$

Left: 10.077 ± 0.323 $\chi^2/\text{NDF}: 1044.5/46$

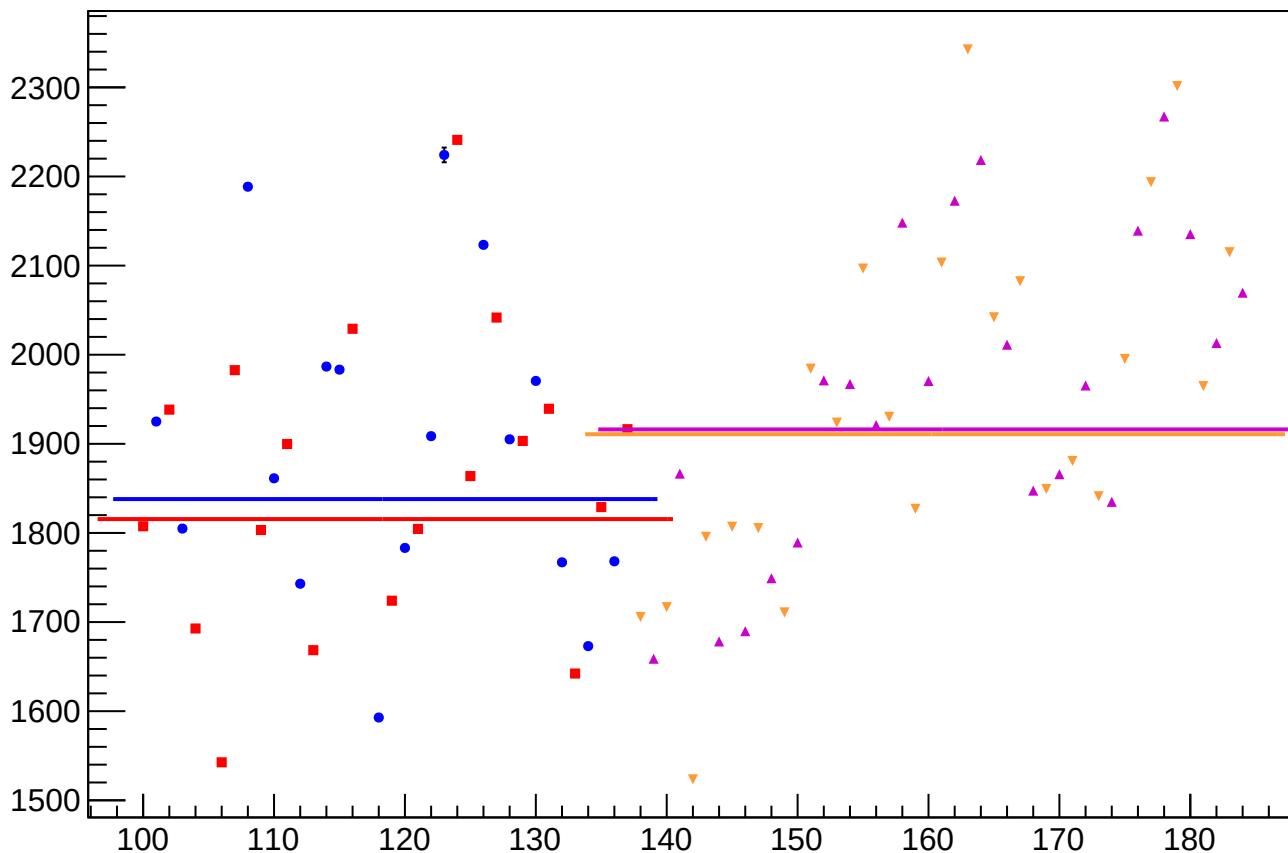
Right: 1.849 ± 0.493 $\chi^2/\text{NDF}: 320.9/35$

In: 5.277 ± 0.388 $\chi^2/\text{NDF}: 537.9/39$

Out: 9.799 ± 0.377 $\chi^2/\text{NDF}: 952.3/42$

All: 7.604 ± 0.270 $\chi^2/\text{NDF}: 1560.1/82$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1838.009+/-0.504 χ^2/NDF : 82831.2/16

Left Out: 1910.790+/-0.320 χ^2/NDF : 324300.7/23

Right Out: 1815.562+/-0.483 χ^2/NDF : 87647.1/18

Left In: 1916.159+/-0.327 χ^2/NDF : 274285.3/22

Left: 1913.410+/-0.229 χ^2/NDF : 598723.8/46

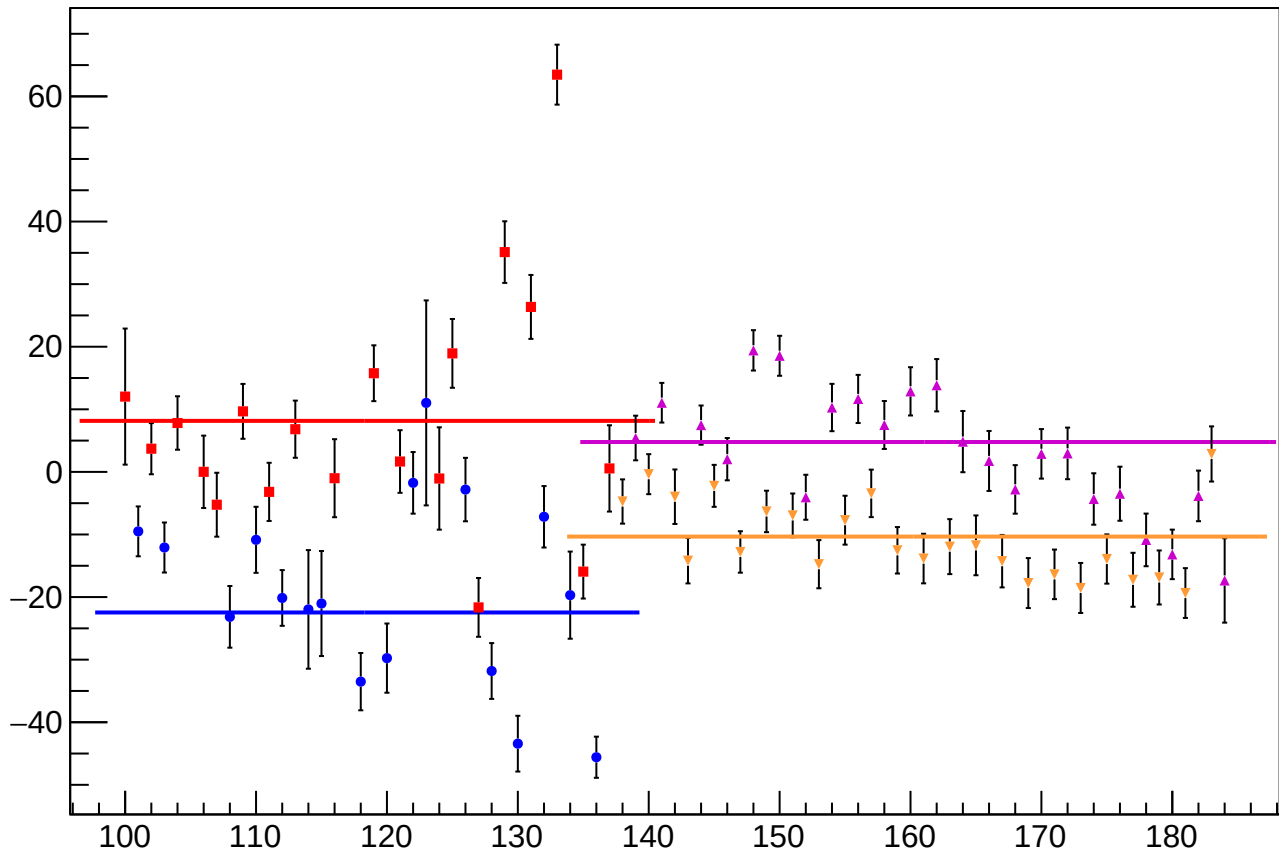
Right: 1826.322+/-0.349 χ^2/NDF : 171512.1/35

In: 1892.965+/-0.274 χ^2/NDF : 374040.6/39

Out: 1881.835+/-0.267 χ^2/NDF : 438959.0/42

All: 1887.238+/-0.191 χ^2/NDF : 813845.9/82

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.463 ± 1.197 $\chi^2/\text{NDF}: 152.8/16$

Left Out: -10.334 ± 0.784 $\chi^2/\text{NDF}: 61.4/23$

Right Out: 8.153 ± 1.158 $\chi^2/\text{NDF}: 277.0/18$

Left In: 4.774 ± 0.800 $\chi^2/\text{NDF}: 128.5/22$

Left: -2.937 ± 0.560 $\chi^2/\text{NDF}: 371.7/46$

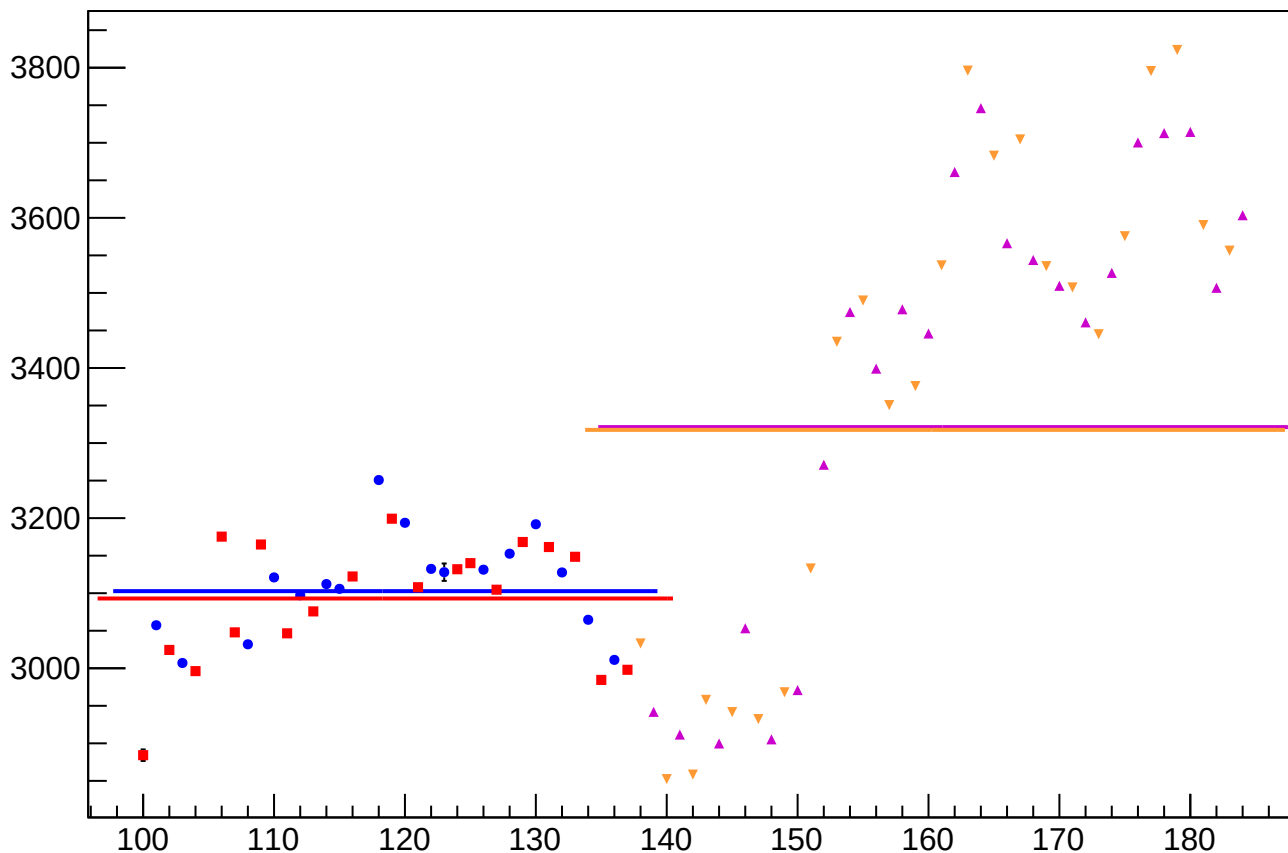
Right: -6.657 ± 0.832 $\chi^2/\text{NDF}: 767.7/35$

In: -3.645 ± 0.665 $\chi^2/\text{NDF}: 639.2/39$

Out: -4.527 ± 0.649 $\chi^2/\text{NDF}: 513.1/42$

All: -4.097 ± 0.465 $\chi^2/\text{NDF}: 1153.2/82$

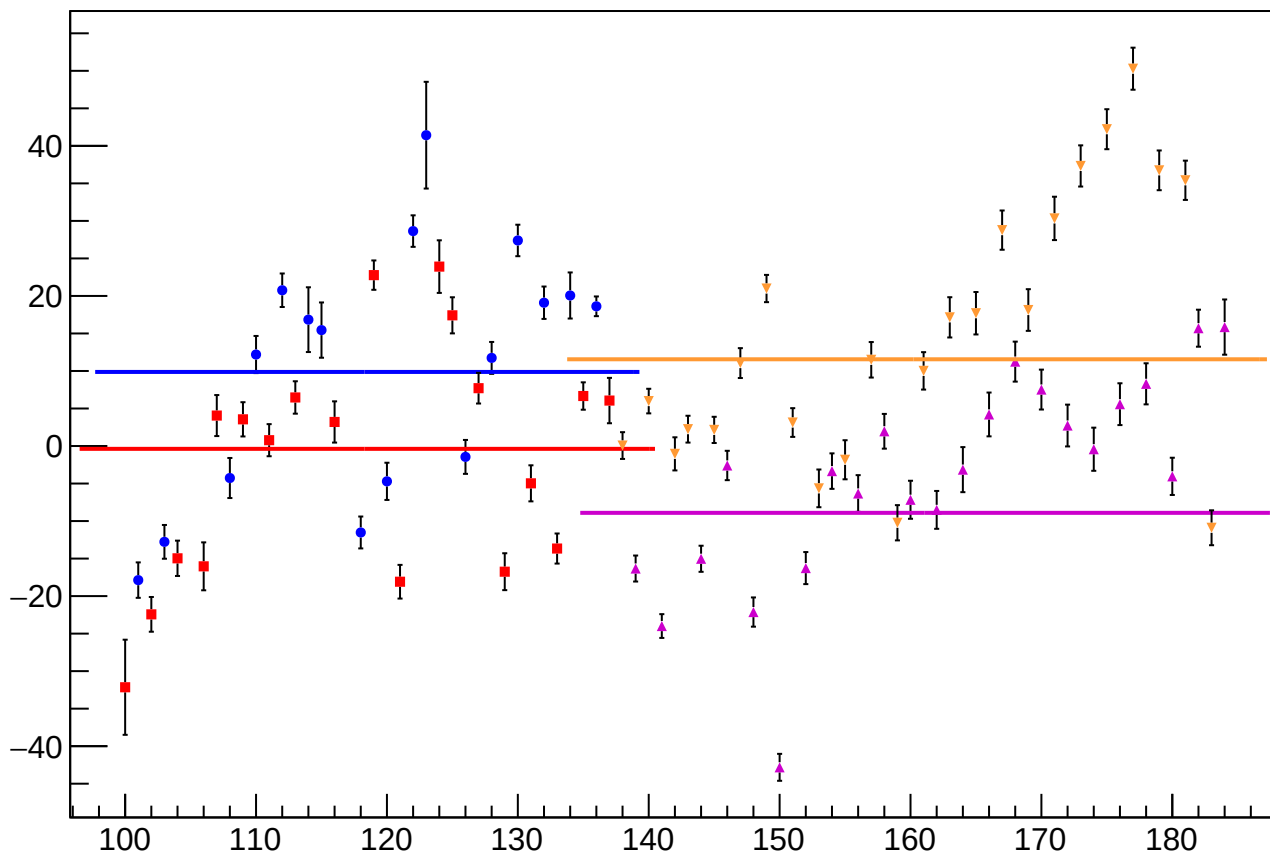
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.744 $\pm$ 0.846 χ^2 /NDF: 7337.7/16
 Left Out: 3317.567 $\pm$ 0.554 χ^2 /NDF:330811.4/23
 Right Out: 3092.954 $\pm$ 0.819 χ^2 /NDF: 7802.6/18
 Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF:284334.2/22

Left: 3319.383 $\pm$ 0.396 χ^2 /NDF: 615167.5/46
 Right: 3097.690 $\pm$ 0.589 χ^2 /NDF: 15209.4/35
 In: 3253.729 $\pm$ 0.470 χ^2 /NDF:337744.9/39
 Out: 3247.009 $\pm$ 0.459 χ^2 /NDF:390179.0/42
 All: 3250.287 $\pm$ 0.329 χ^2 /NDF: 728028.4/82

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.873 ± 0.560 $\chi^2/\text{NDF}: 701.6/16$

Left Out: 11.559 ± 0.460 $\chi^2/\text{NDF}: 1126.6/23$

Right Out: -0.377 ± 0.548 $\chi^2/\text{NDF}: 628.0/18$

Left In: -8.905 ± 0.478 $\chi^2/\text{NDF}: 936.3/22$

Left: 1.705 ± 0.331 $\chi^2/\text{NDF}: 3015.0/46$

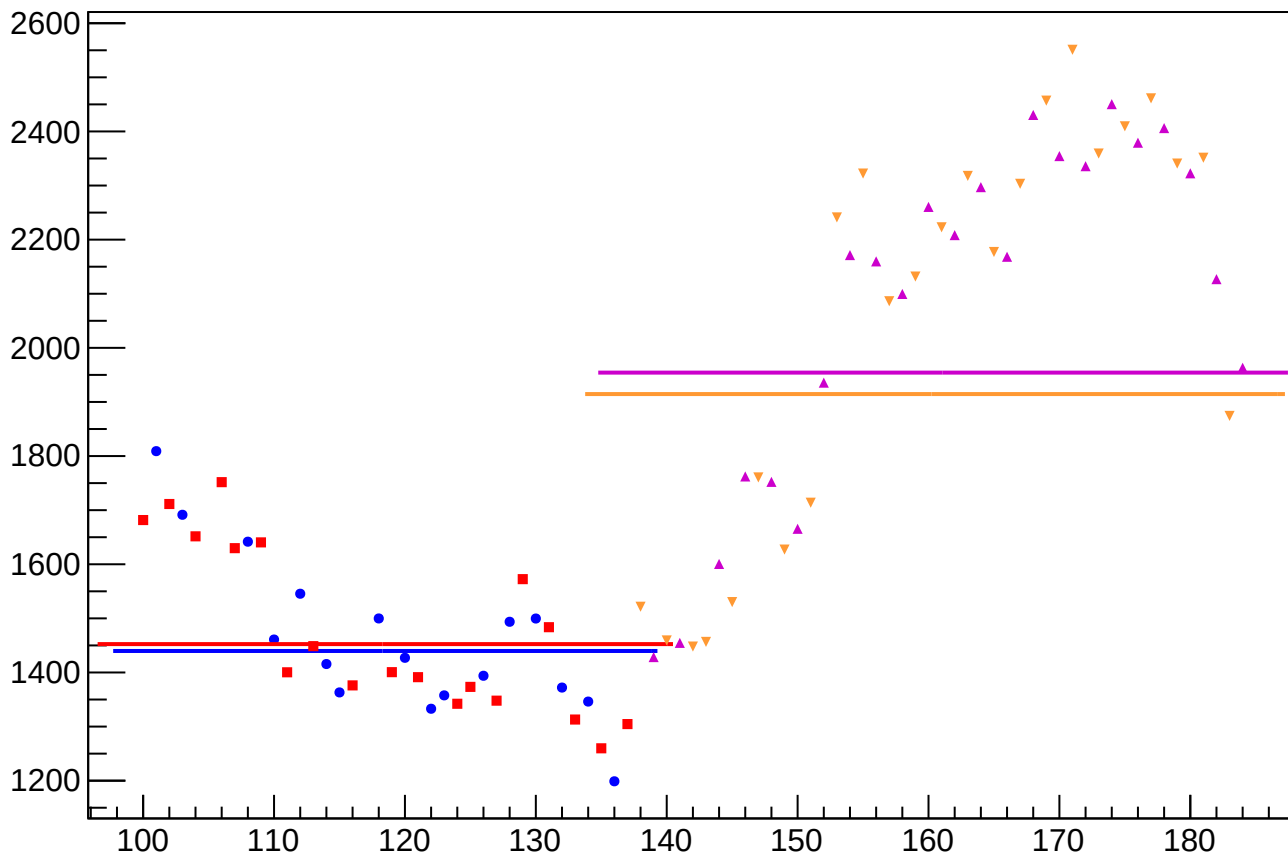
Right: 4.631 ± 0.392 $\chi^2/\text{NDF}: 1500.7/35$

In: -1.007 ± 0.363 $\chi^2/\text{NDF}: 2288.3/39$

Out: 6.621 ± 0.352 $\chi^2/\text{NDF}: 2032.9/42$

All: 2.925 ± 0.253 $\chi^2/\text{NDF}: 4548.2/82$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.733+/-0.396 χ^2/NDF : 172867.1/16

Left Out: 1914.582+/-0.325 χ^2/NDF :1379785.6/23

Right Out: 1452.445+/-0.387 χ^2/NDF : 138400.9/18

Left In: 1954.236+/-0.338 χ^2/NDF :1044826.7/22

Left: 1933.676+/-0.234 χ^2/NDF : 2431763.0/46

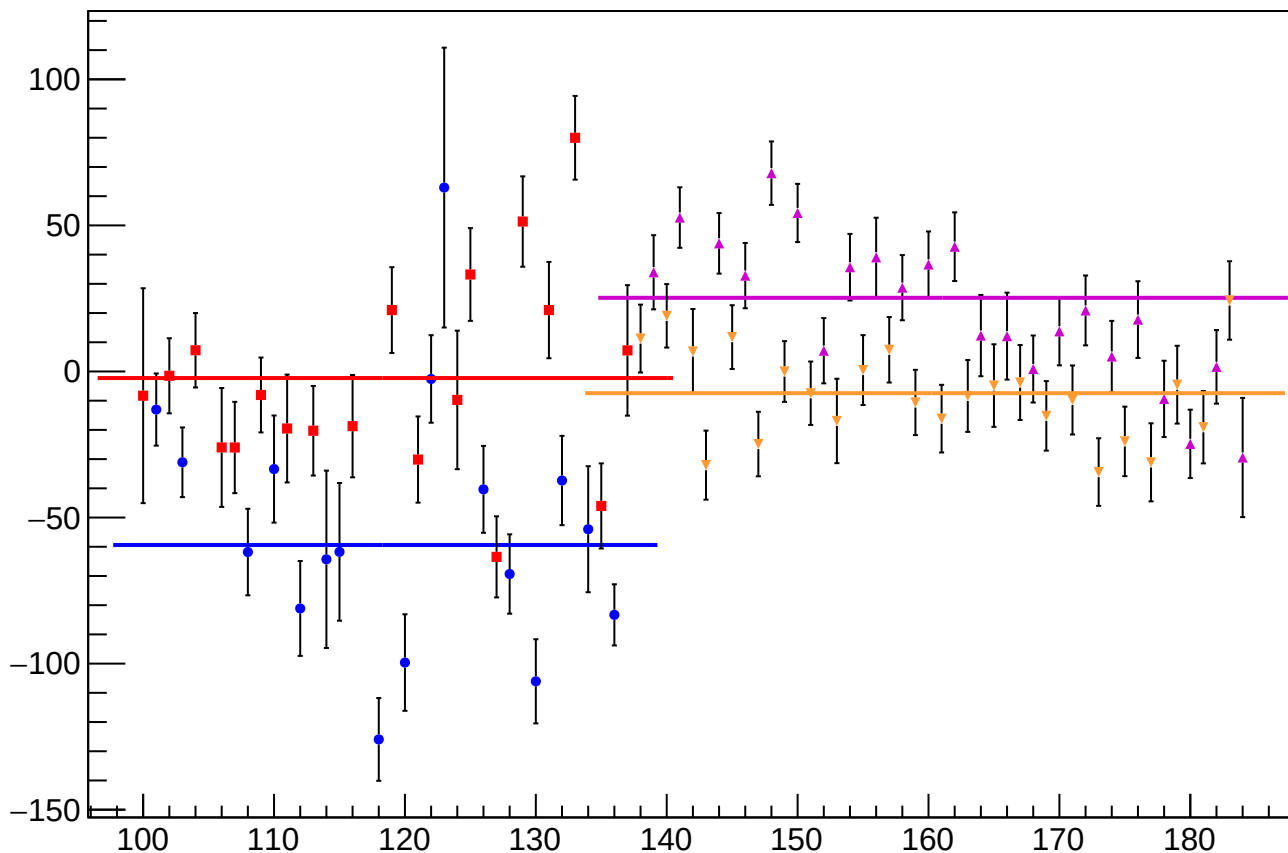
Right: 1446.234+/-0.277 χ^2/NDF : 311794.3/35

In: 1737.829+/-0.257 χ^2/NDF :2194267.8/39

Out: 1723.373+/-0.249 χ^2/NDF :2352688.6/42

All: 1730.376+/-0.179 χ^2/NDF : 4548587.5/82

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.392 ± 3.736 $\chi^2/\text{NDF}: 92.5/16$

Left Out: -7.424 ± 2.446 $\chi^2/\text{NDF}: 40.8/23$

Right Out: -2.255 ± 3.636 $\chi^2/\text{NDF}: 94.4/18$

Left In: 25.215 ± 2.487 $\chi^2/\text{NDF}: 89.3/22$

Left: 8.629 ± 1.744 $\chi^2/\text{NDF}: 217.6/46$

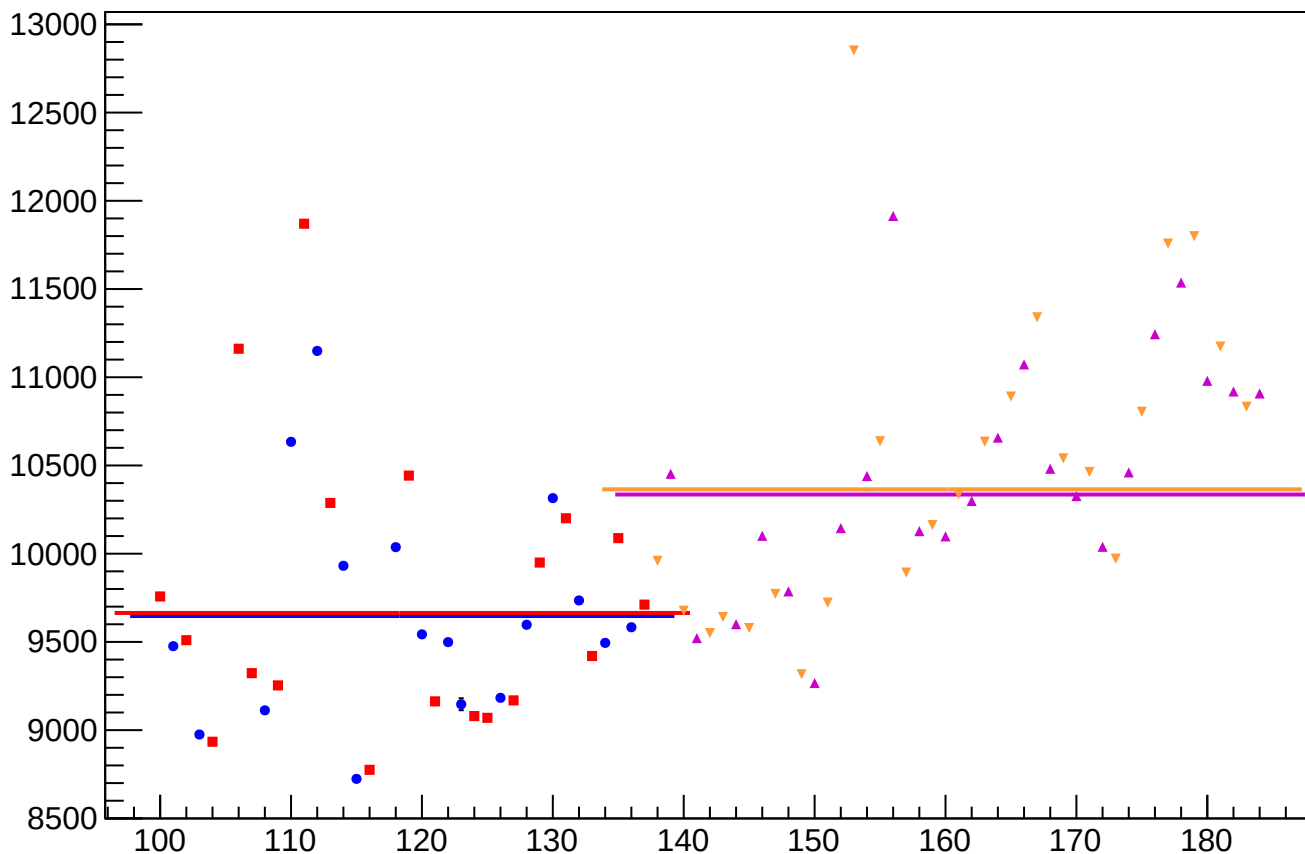
Right: -30.055 ± 2.606 $\chi^2/\text{NDF}: 307.0/35$

In: -0.763 ± 2.070 $\chi^2/\text{NDF}: 537.3/39$

Out: -5.813 ± 2.030 $\chi^2/\text{NDF}: 136.6/42$

All: -3.338 ± 1.449 $\chi^2/\text{NDF}: 676.9/82$

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.921 $\pm$ 2.641 χ^2 /NDF: 43997.1/16

Left Out: 10364.769 $\pm$ 1.730 χ^2 /NDF: 209028.7/23

Right Out: 9664.191 $\pm$ 2.571 χ^2 /NDF: 77326.5/18

Left In: 10335.399 $\pm$ 1.758 χ^2 /NDF: 127173.0/22

Left: 10350.324 $\pm$ 1.233 χ^2 /NDF: 336343.5/46

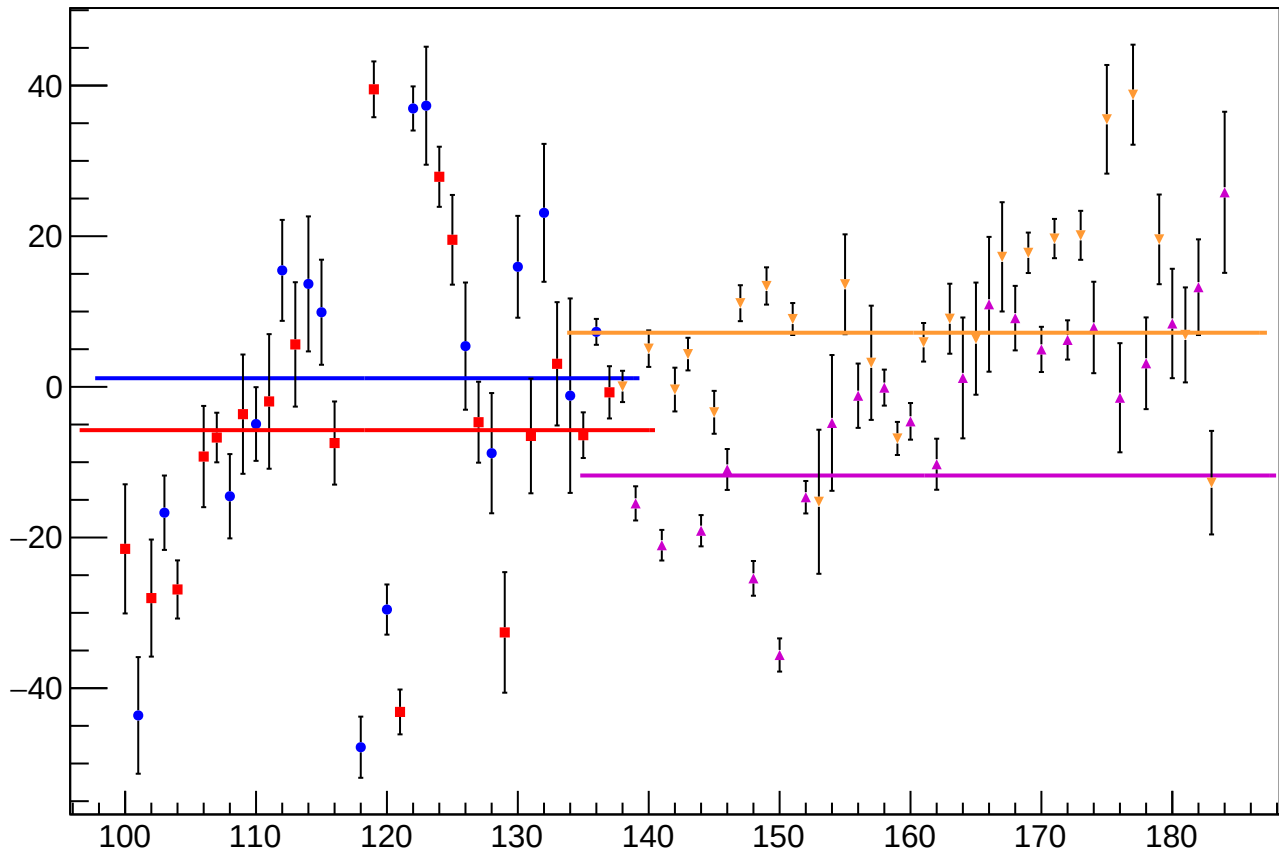
Right: 9655.788 $\pm$ 1.842 χ^2 /NDF: 121345.6/35

In: 10124.006 $\pm$ 1.464 χ^2 /NDF: 218246.3/39

Out: 10146.499 $\pm$ 1.435 χ^2 /NDF: 337461.8/42

All: 10135.473 $\pm$ 1.025 χ^2 /NDF: 555828.4/82

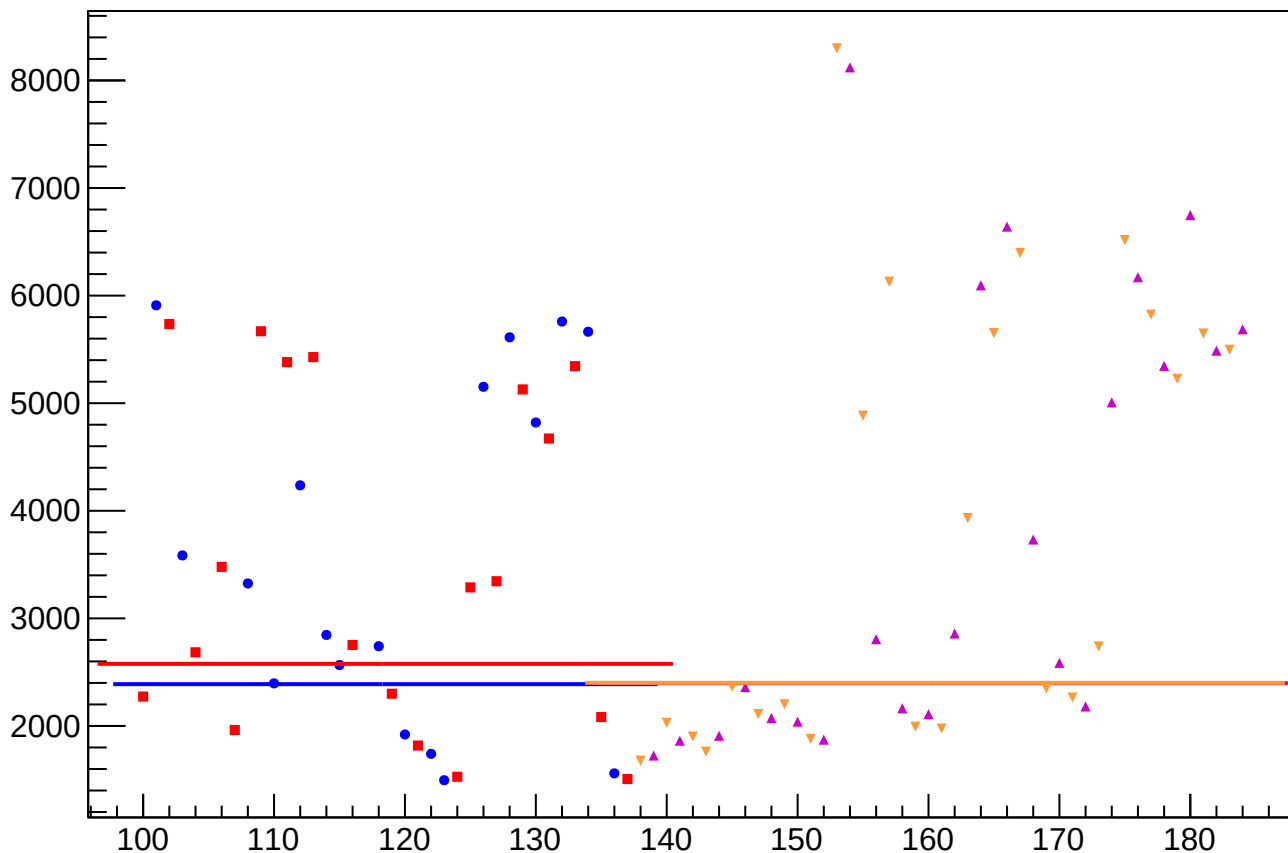
diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.147 ± 1.067 $\chi^2/\text{NDF}: 490.7/16$
 Left Out: 7.187 ± 0.644 $\chi^2/\text{NDF}: 199.7/23$
 Right Out: -5.747 ± 1.092 $\chi^2/\text{NDF}: 455.0/18$
 Left In: -11.766 ± 0.648 $\chi^2/\text{NDF}: 395.1/22$

Left: -2.230 ± 0.457 $\chi^2/\text{NDF}: 1024.7/46$
 Right: -2.221 ± 0.763 $\chi^2/\text{NDF}: 966.1/35$
 In: -8.285 ± 0.554 $\chi^2/\text{NDF}: 992.7/39$
 Out: 3.847 ± 0.555 $\chi^2/\text{NDF}: 758.7/42$
 All: -2.227 ± 0.392 $\chi^2/\text{NDF}: 1990.8/82$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2388.532 ± 0.755 $\chi^2/\text{NDF}: 2588689.4/16$

Left Out: 2401.286 ± 0.456 $\chi^2/\text{NDF}: 6137143.6/23$

Right Out: 2577.351 ± 0.772 $\chi^2/\text{NDF}: 2358780.3/18$

Left In: 2397.701 ± 0.458 $\chi^2/\text{NDF}: 5398920.1/22$

Left: 2399.505 ± 0.323 $\chi^2/\text{NDF}: 11536094.5/46$

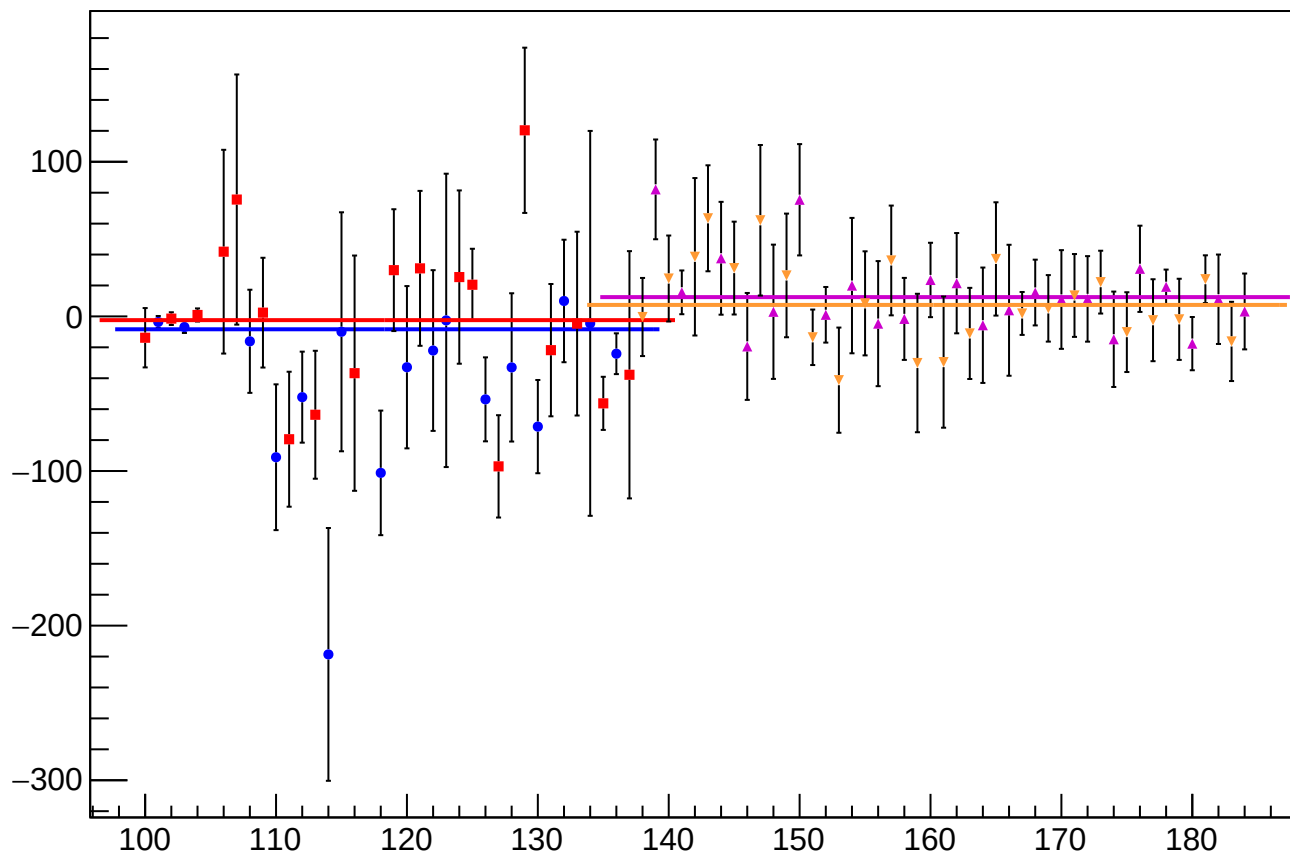
Right: 2480.778 ± 0.540 $\chi^2/\text{NDF}: 4978057.3/35$

In: 2395.229 ± 0.392 $\chi^2/\text{NDF}: 7987717.4/39$

Out: 2446.752 ± 0.392 $\chi^2/\text{NDF}: 8534494.8/42$

All: 2420.955 ± 0.277 $\chi^2/\text{NDF}: 16530845.9/80$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.339 ± 2.588 χ^2/NDF : 28.3/16

Left Out: 7.422 ± 5.262 χ^2/NDF : 15.7/23

Right Out: -2.423 ± 2.787 χ^2/NDF : 33.9/18

Left In: 12.469 ± 5.025 χ^2/NDF : 15.4/22

Left: 10.062 ± 3.634 χ^2/NDF : 31.6/46

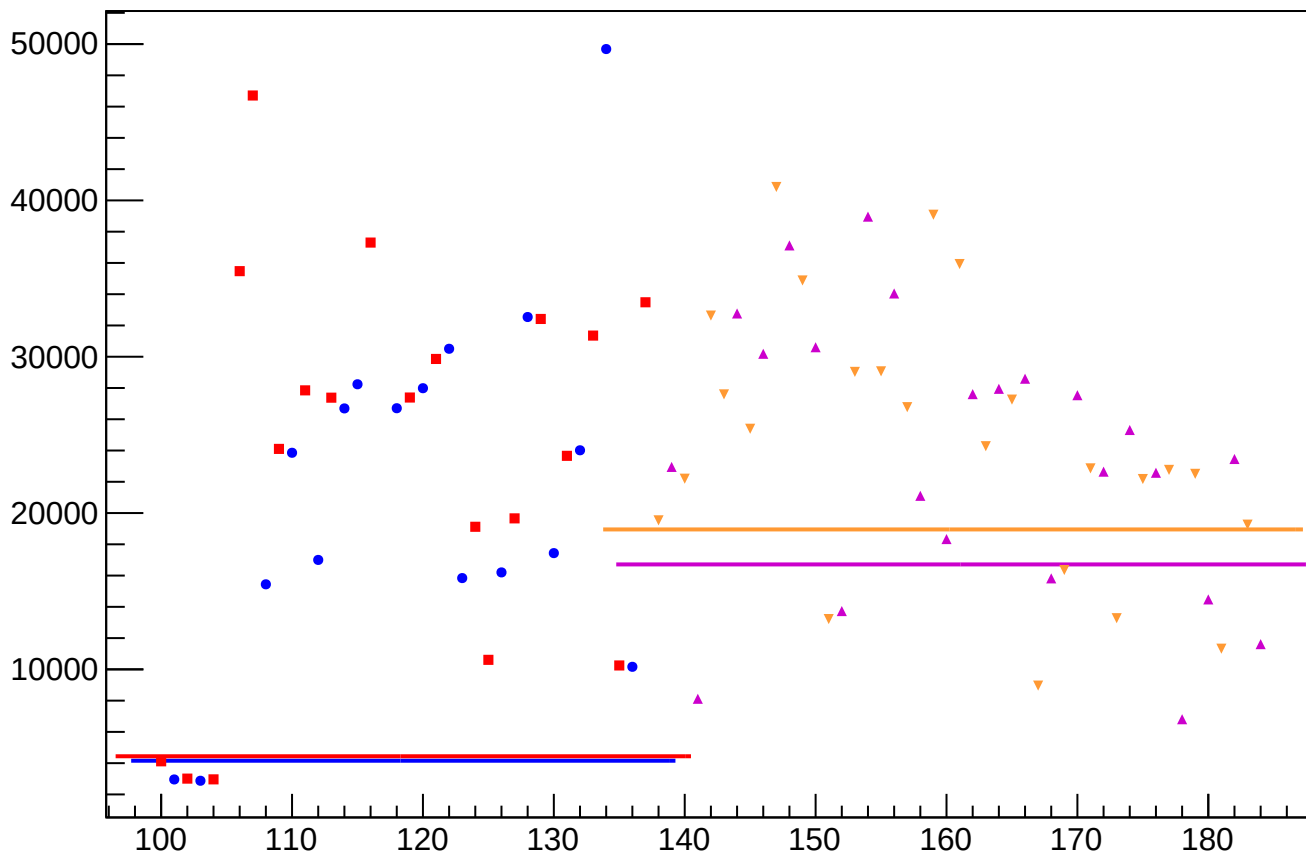
Right: -5.599 ± 1.896 χ^2/NDF : 64.6/35

In: -3.976 ± 2.301 χ^2/NDF : 57.2/39

Out: -0.266 ± 2.463 χ^2/NDF : 52.4/42

All: -2.247 ± 1.681 χ^2/NDF : 110.8/82

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4156.086+/-1.830 χ^2/NDF : 5974546.9/16

Left Out: 18951.789+/-3.721 χ^2/NDF : 4526616.3/23

Right Out: 4441.440+/-1.971 χ^2/NDF : 7399930.1/18

Left In: 16713.653+/-3.553 χ^2/NDF : 6194178.8/22

Left: 17781.310+/-2.570 χ^2/NDF : 10910041.8/46

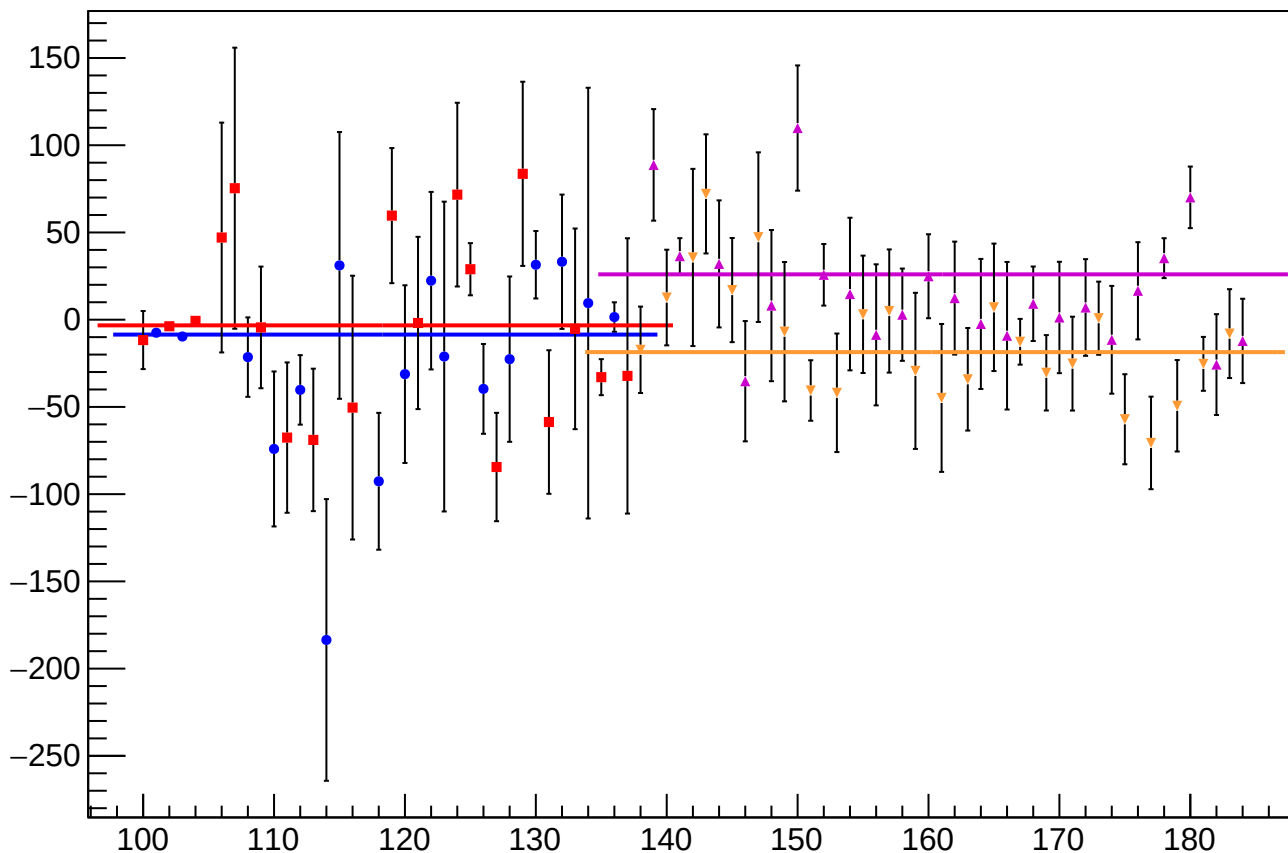
Right: 4288.220+/-1.341 χ^2/NDF : 13385734.9/35

In: 6788.658+/-1.627 χ^2/NDF : 22039372.0/39

Out: 7620.498+/-1.741 χ^2/NDF : 23804318.1/42

All: 7176.332+/-1.189 χ^2/NDF : 45965516.7/80

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.536 $\pm$ 1.778 χ^2/NDF : 24.0/16

Left Out: -18.595 $\pm$ 5.203 χ^2/NDF : 26.2/23

Right Out: -3.248 $\pm$ 1.922 χ^2/NDF : 36.9/18

Left In: 25.991 $\pm$ 4.789 χ^2/NDF : 32.6/22

Left: 5.541 $\pm$ 3.523 χ^2/NDF : 98.6/46

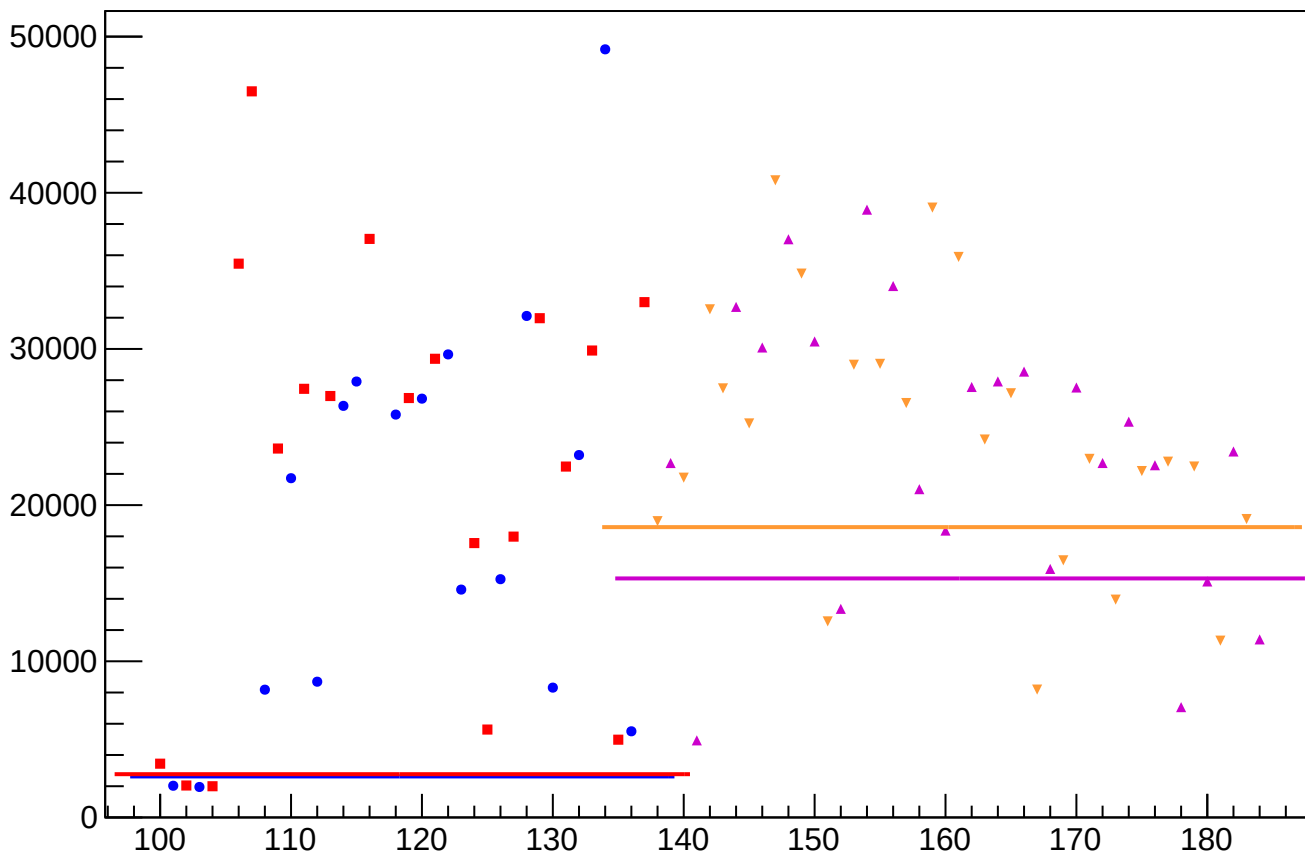
Right: -6.098 $\pm$ 1.305 χ^2/NDF : 65.0/35

In: -4.353 $\pm$ 1.667 χ^2/NDF : 102.3/39

Out: -5.091 $\pm$ 1.803 χ^2/NDF : 70.8/42

All: -4.693 $\pm$ 1.224 χ^2/NDF : 173.2/82

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2627.104 ± 1.257 $\chi^2/\text{NDF}: 5569866.4/16$

Left Out: 18590.163 ± 3.679 $\chi^2/\text{NDF}: 4824428.8/23$

Right Out: 2770.651 ± 1.359 $\chi^2/\text{NDF}: 7812778.8/18$

Left In: 15305.311 ± 3.386 $\chi^2/\text{NDF}: 7721177.0/22$

Left: 16811.968 ± 2.491 $\chi^2/\text{NDF}: 12977216.1/46$

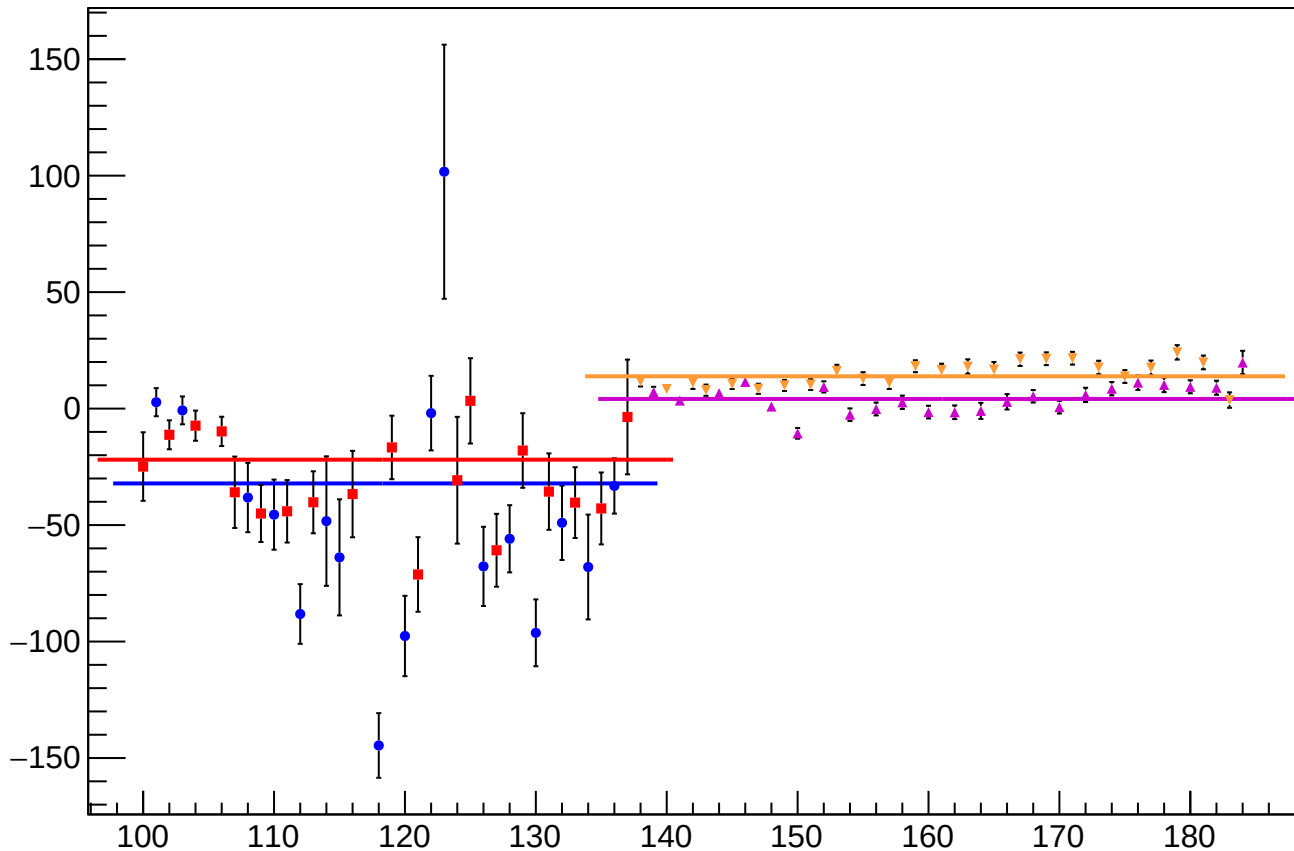
Right: 2693.290 ± 0.923 $\chi^2/\text{NDF}: 13388655.9/35$

In: 4163.055 ± 1.179 $\chi^2/\text{NDF}: 25610538.7/39$

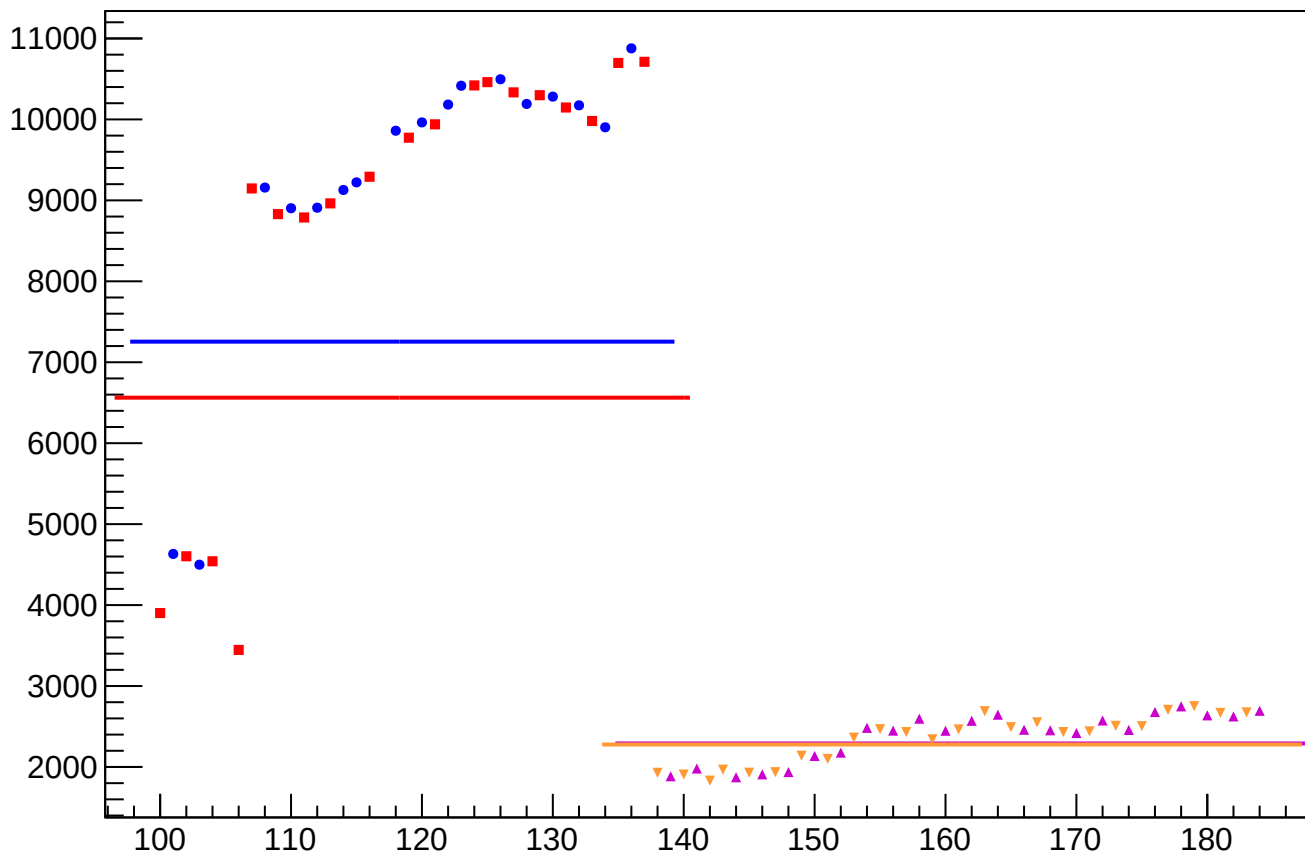
Out: 4670.902 ± 1.275 $\chi^2/\text{NDF}: 28907896.2/42$

All: 4397.063 ± 0.865 $\chi^2/\text{NDF}: 54603982.4/8$

diff_bpm0l04X_mean vs Slug, Sign Corrected



diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7254.506 $\pm$ 2.110 χ^2/NDF : 1633073.8/16

Left Out: 2277.443 $\pm$ 0.382 χ^2/NDF :588074.3/23

Right Out: 6562.403 $\pm$ 1.889 χ^2/NDF : 2190982.1/18

Left In: 2290.461 $\pm$ 0.392 χ^2/NDF :590272.1/22

Left: 2283.780 $\pm$ 0.274 χ^2/NDF : 1178911.5/46

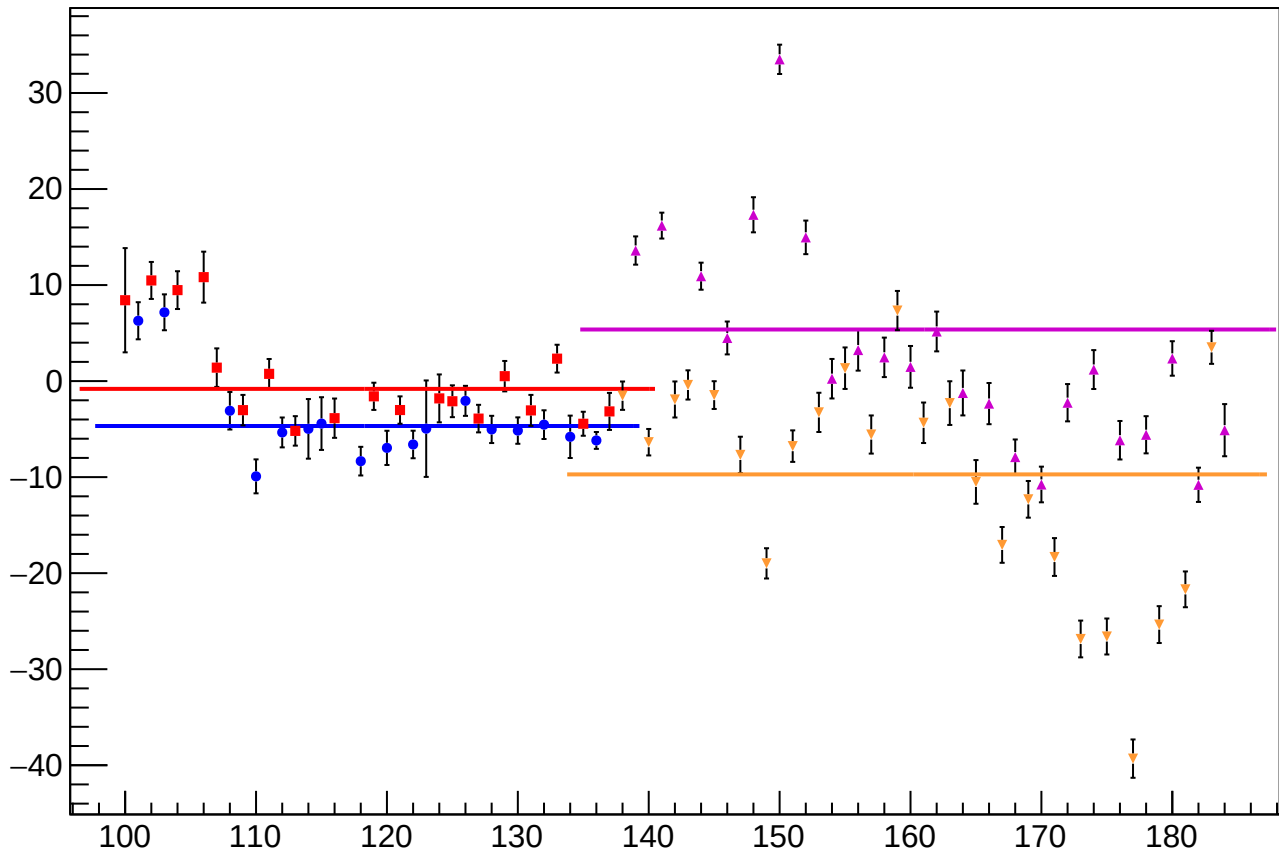
Right: 6870.261 $\pm$ 1.408 χ^2/NDF : 3883763.4/35

In: 2456.258 $\pm$ 0.386 χ^2/NDF :7571049.7/39

Out: 2445.851 $\pm$ 0.375 χ^2/NDF :7722018.8/42

All: 2450.901 $\pm$ 0.269 χ^2/NDF : 15293443.3/80

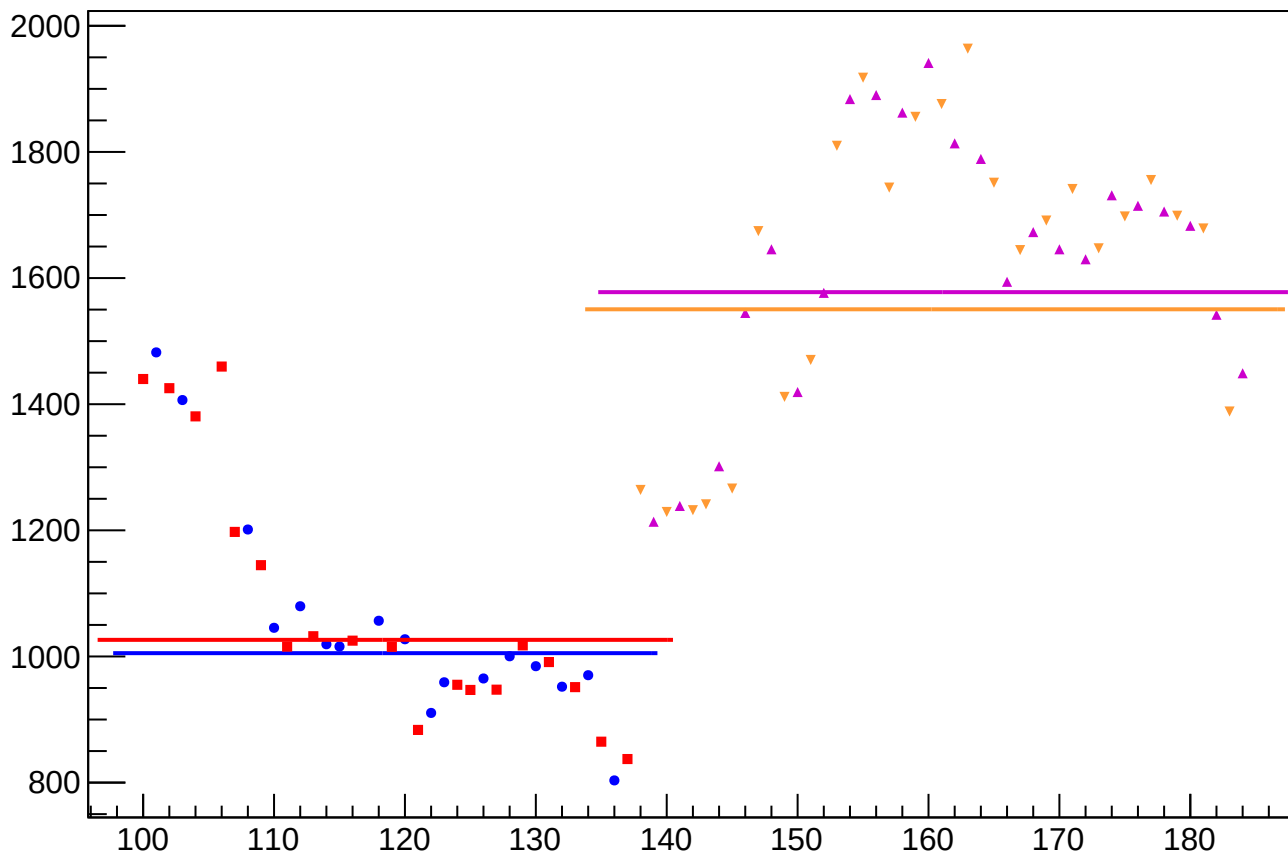
diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.677 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$
 Left Out: -9.716 ± 0.370 $\chi^2/\text{NDF}: 875.0/23$
 Right Out: -0.810 ± 0.389 $\chi^2/\text{NDF}: 123.7/18$
 Left In: 5.372 ± 0.383 $\chi^2/\text{NDF}: 869.8/22$

Left: -2.436 ± 0.266 $\chi^2/\text{NDF}: 2548.4/46$
 Right: -2.723 ± 0.277 $\chi^2/\text{NDF}: 270.1/35$
 In: 0.483 ± 0.274 $\chi^2/\text{NDF}: 1302.5/39$
 Out: -5.492 ± 0.268 $\chi^2/\text{NDF}: 1273.8/42$
 All: -2.574 ± 0.192 $\chi^2/\text{NDF}: 2819.0/82$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Left: 1563.604 +/- 0.188 χ^2/NDF : 1456118.5/46

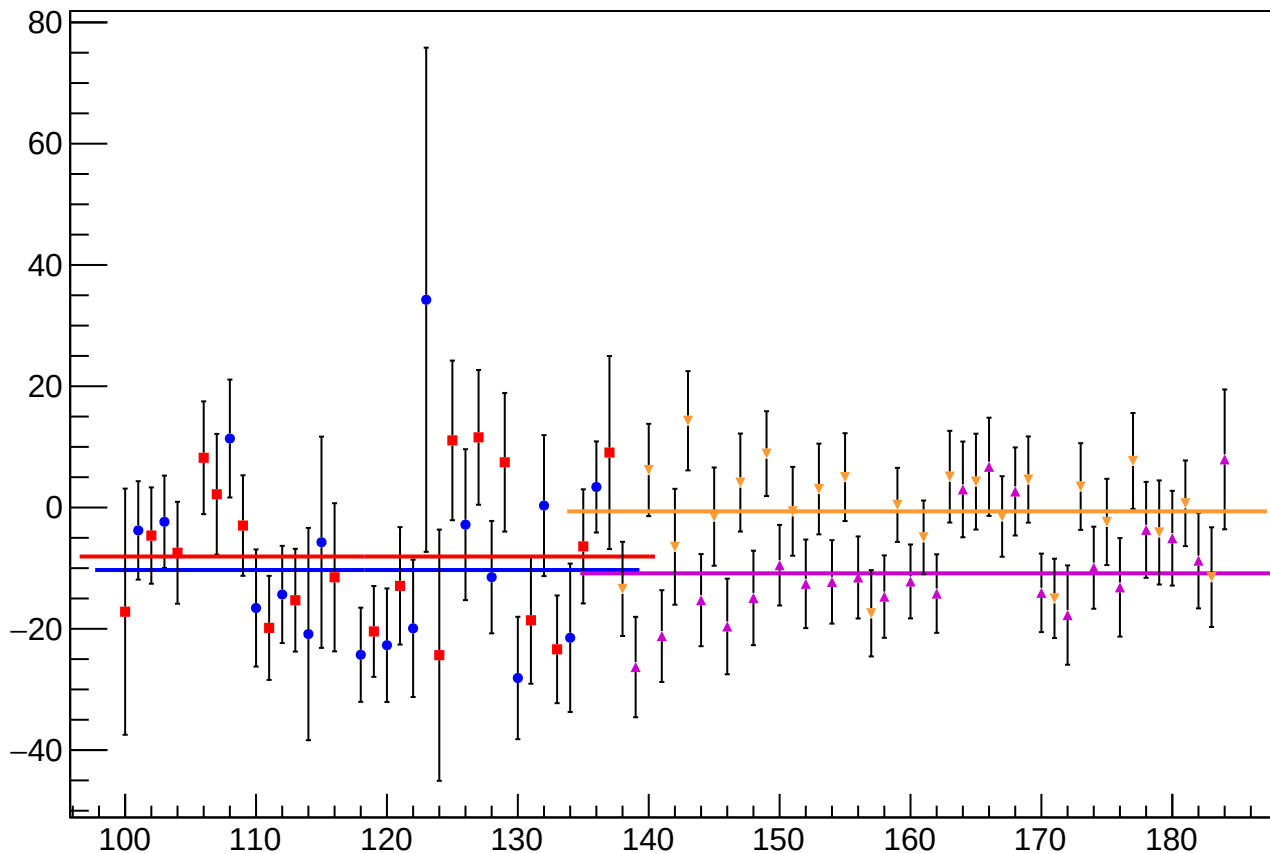
Right: 1015.898 +/- 0.196 χ^2/NDF : 697807.1/35

In: 1299.154 +/- 0.194 χ^2/NDF : 3162372.6/39

Out: 1301.884 +/- 0.190 χ^2/NDF : 3065078.6/42

All: 1300.551 +/- 0.136 χ^2/NDF : 6227552.4/82

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.305 $\pm$ 2.412 χ^2/NDF : 23.2/16

Left Out: -0.635 $\pm$ 1.502 χ^2/NDF : 26.2/23

Right Out: -8.079 $\pm$ 2.281 χ^2/NDF : 23.4/18

Left In: -10.851 $\pm$ 1.542 χ^2/NDF : 24.4/22

Left: -5.612 $\pm$ 1.076 χ^2/NDF : 73.0/46

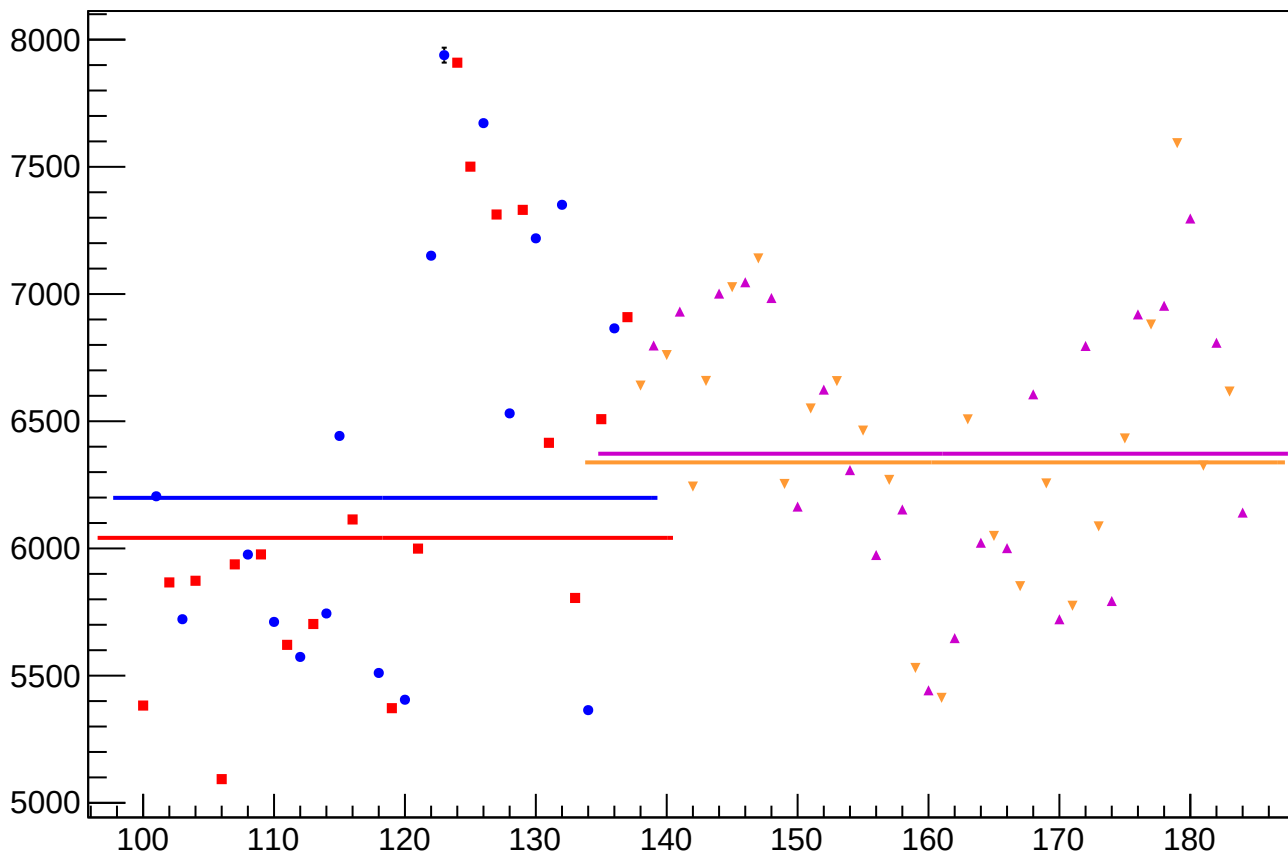
Right: -9.130 $\pm$ 1.657 χ^2/NDF : 47.1/35

In: -10.693 $\pm$ 1.299 χ^2/NDF : 47.6/39

Out: -2.888 $\pm$ 1.255 χ^2/NDF : 57.0/42

All: -6.655 $\pm$ 0.902 χ^2/NDF : 123.3/82

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6198.871+/-1.705 χ^2/NDF : 171305.8/16

Left Out: 6338.250+/-1.062 χ^2/NDF : 221202.1/23

Right Out: 6041.626+/-1.613 χ^2/NDF : 156387.0/18

Left In: 6372.349+/-1.090 χ^2/NDF : 247257.0/22

Left: 6354.860+/-0.761 χ^2/NDF : 468961.0/46

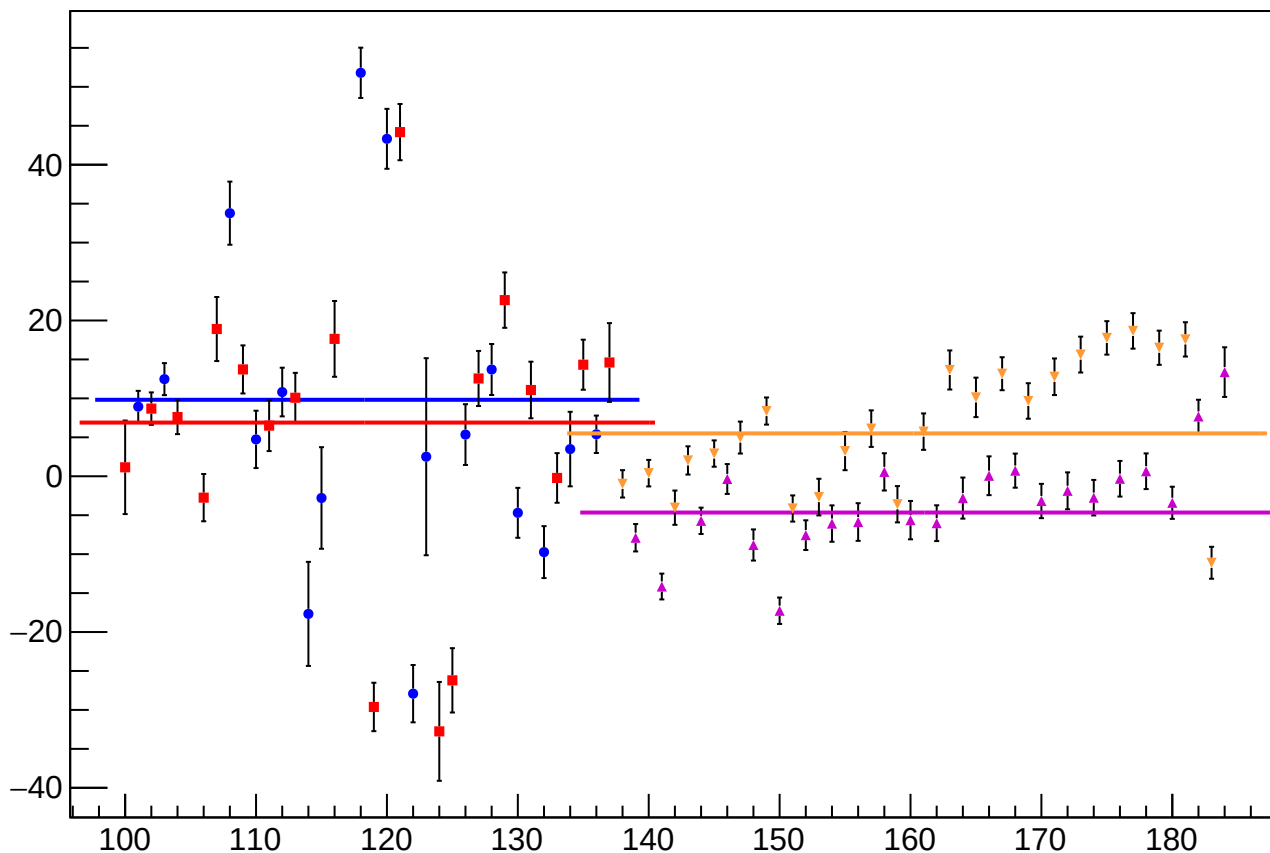
Right: 6115.860+/-1.172 χ^2/NDF : 332181.0/35

In: 6322.028+/-0.918 χ^2/NDF : 425909.0/39

Out: 6248.488+/-0.887 χ^2/NDF : 401182.0/42

All: 6283.982+/-0.638 χ^2/NDF : 830407.5/82

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.819 ± 0.798 χ^2/NDF : 472.6/16

Left Out: 5.505 ± 0.426 χ^2/NDF : 357.1/23

Right Out: 6.893 ± 0.766 χ^2/NDF : 415.2/18

Left In: -4.657 ± 0.443 χ^2/NDF : 196.5/22

Left: 0.624 ± 0.307 χ^2/NDF : 826.7/46

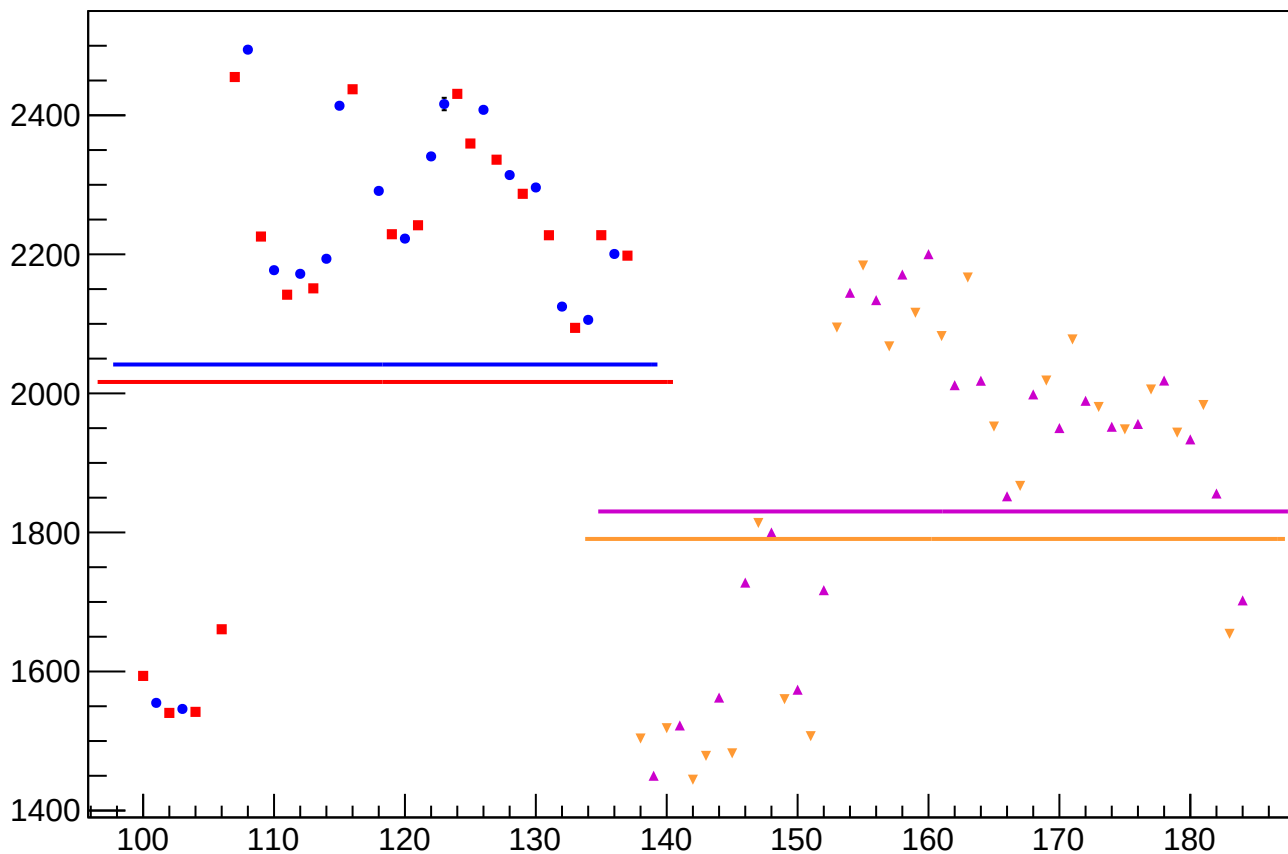
Right: 8.296 ± 0.553 χ^2/NDF : 894.8/35

In: -1.243 ± 0.388 χ^2/NDF : 920.7/39

Out: 5.833 ± 0.372 χ^2/NDF : 774.8/42

All: 2.436 ± 0.269 χ^2/NDF : 1868.8/82

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2041.543 $\pm$ 0.564 χ^2 /NDF: 356223.7/16

Left Out: 1790.647 $\pm$ 0.301 χ^2 /NDF:736067.6/23

Right Out: 2016.419 $\pm$ 0.542 χ^2 /NDF: 375150.5/18

Left In: 1830.160 $\pm$ 0.313 χ^2 /NDF:508391.9/22

Left: 1809.624 $\pm$ 0.217 χ^2 /NDF: 1252716.3/46

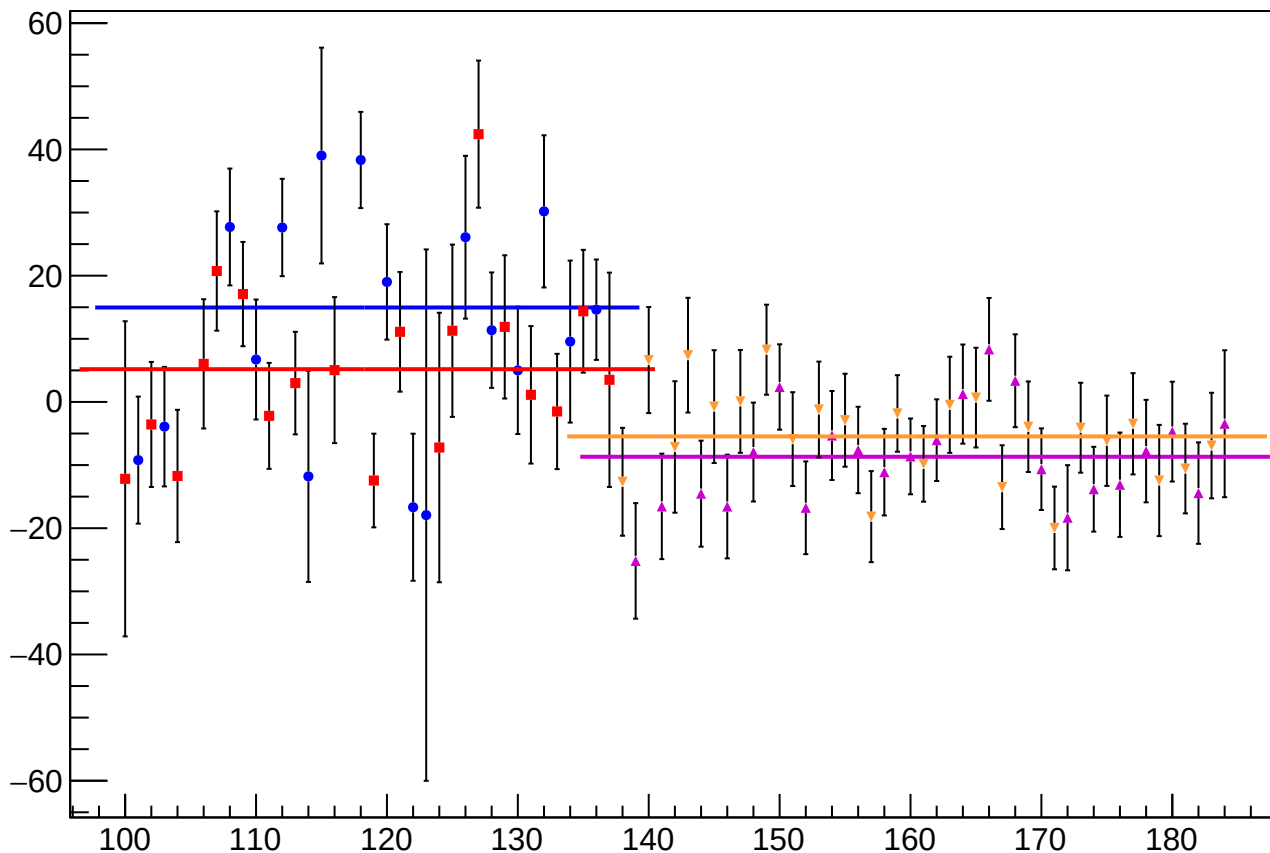
Right: 2028.464 $\pm$ 0.391 χ^2 /NDF: 732406.2/35

In: 1880.017 $\pm$ 0.274 χ^2 /NDF:971856.7/39

Out: 1844.034 $\pm$ 0.263 χ^2 /NDF:1243942.9/42

All: 1861.308 $\pm$ 0.190 χ^2 /NDF: 2224764.3/82

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.961 ± 2.490 χ^2/NDF : 40.9/16

Left Out: -5.458 ± 1.533 χ^2/NDF : 22.4/23

Right Out: 5.187 ± 2.360 χ^2/NDF : 28.2/18

Left In: -8.683 ± 1.571 χ^2/NDF : 21.9/22

Left: -7.032 ± 1.097 χ^2/NDF : 46.5/46

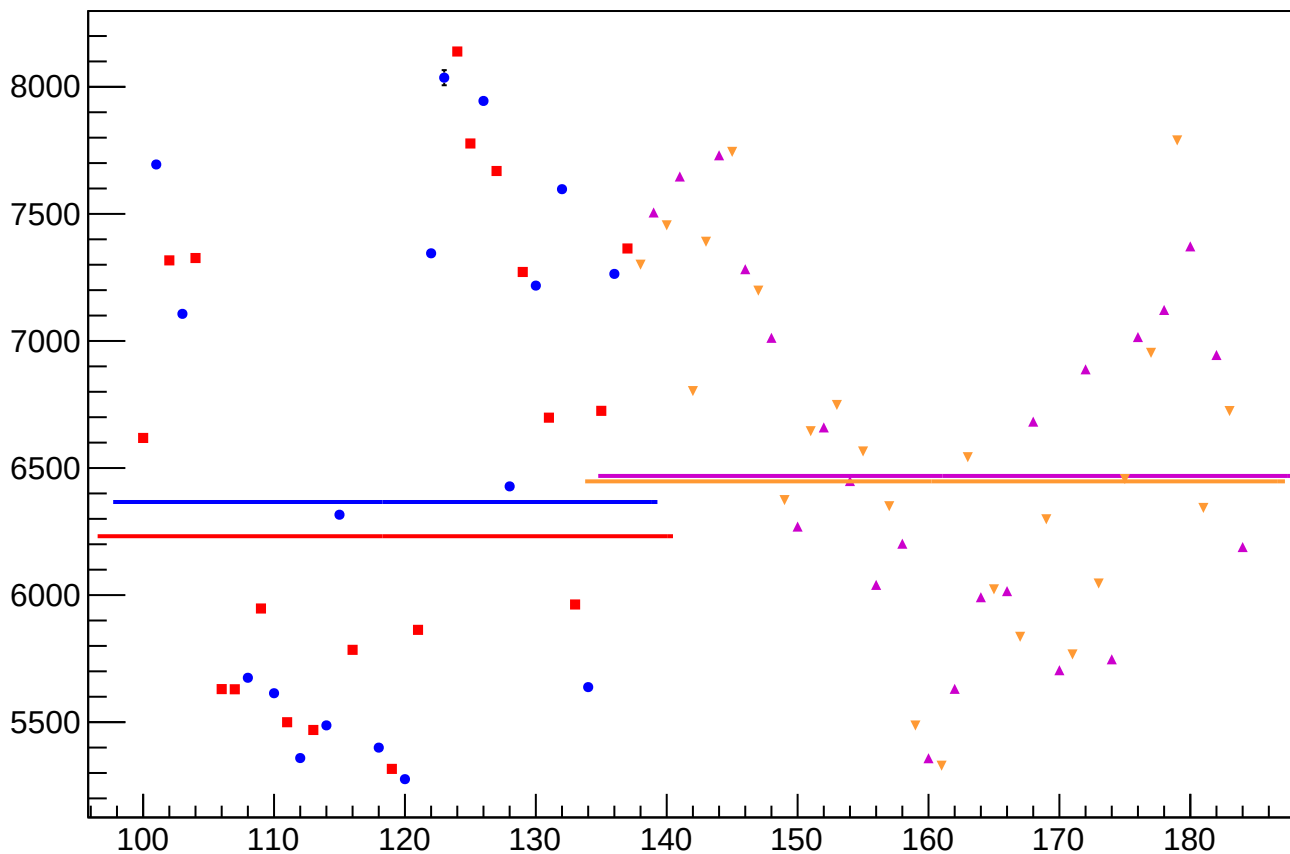
Right: 9.813 ± 1.713 χ^2/NDF : 77.2/35

In: -1.952 ± 1.328 χ^2/NDF : 127.3/39

Out: -2.298 ± 1.286 χ^2/NDF : 65.0/42

All: -2.131 ± 0.924 χ^2/NDF : 192.3/82

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.340 ± 1.760 $\chi^2/\text{NDF}: 285567.3/16$

Left Out: 6447.539 ± 1.084 $\chi^2/\text{NDF}: 366236.6/23$

Right Out: 6231.657 ± 1.669 $\chi^2/\text{NDF}: 241308.4/18$

Left In: 6468.902 ± 1.111 $\chi^2/\text{NDF}: 383325.4/22$

Left: 6457.965 ± 0.776 $\chi^2/\text{NDF}: 749751.5/46$

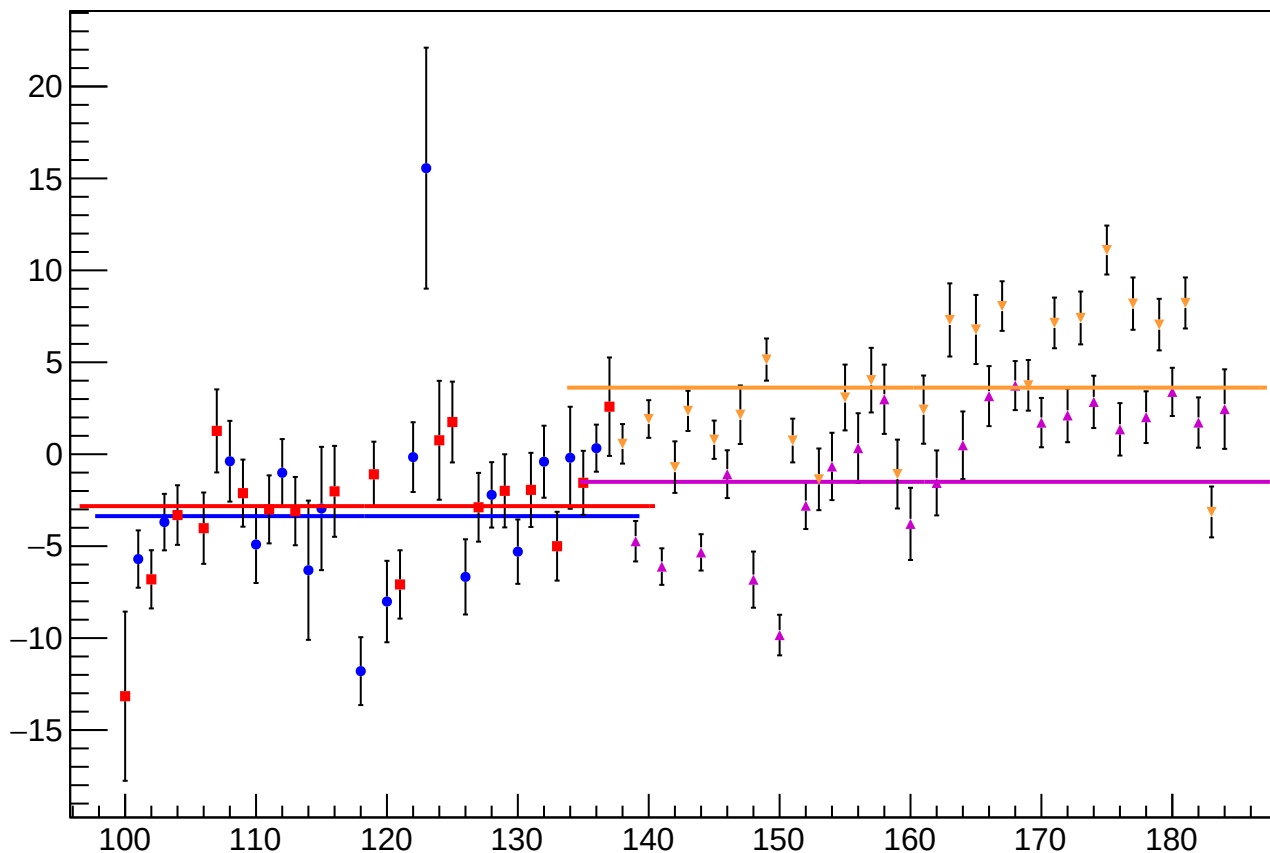
Right: 6295.395 ± 1.211 $\chi^2/\text{NDF}: 529958.8/35$

In: 6439.705 ± 0.939 $\chi^2/\text{NDF}: 671320.6/39$

Out: 6383.445 ± 0.909 $\chi^2/\text{NDF}: 619313.6/42$

All: 6410.660 ± 0.653 $\chi^2/\text{NDF}: 1292486.4/82$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.367 $\pm$ 0.476 χ^2/NDF : 59.6/16

Left Out: 3.622 $\pm$ 0.280 χ^2/NDF :166.6/23

Right Out: -2.823 $\pm$ 0.457 χ^2/NDF : 33.5/18

Left In: -1.502 $\pm$ 0.291 χ^2/NDF :202.7/22

Left: 1.155 $\pm$ 0.202 χ^2/NDF : 530.6/46

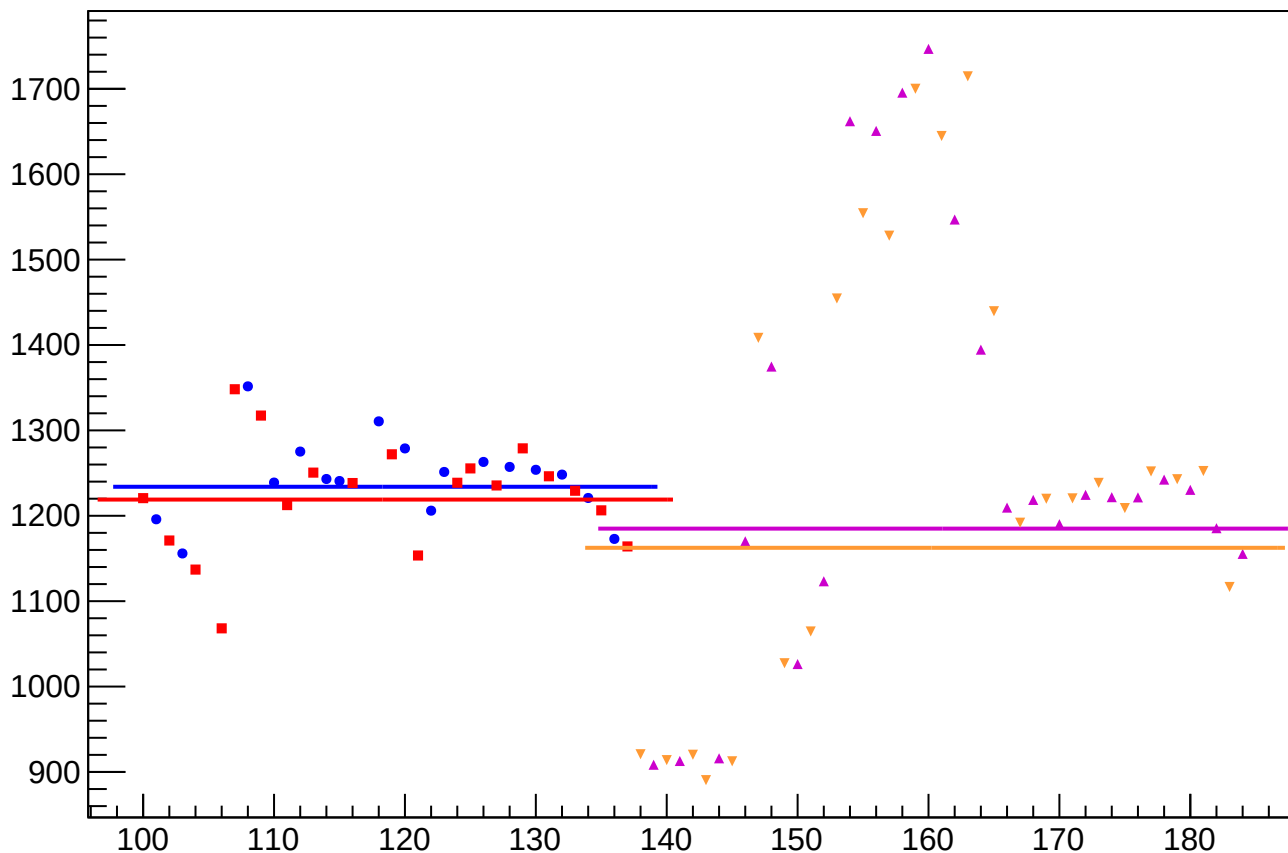
Right: -3.084 $\pm$ 0.330 χ^2/NDF : 93.8/35

In: -2.008 $\pm$ 0.248 χ^2/NDF :273.4/39

Out: 1.863 $\pm$ 0.239 χ^2/NDF :344.7/42

All: 0.002 $\pm$ 0.172 χ^2/NDF : 744.5/82

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1233.978 ± 0.337 $\chi^2/\text{NDF}: 23557.3/16$

Left Out: 1162.492 ± 0.198 $\chi^2/\text{NDF}: 1389203.5/23$

Right Out: 1218.985 ± 0.323 $\chi^2/\text{NDF}: 40373.1/18$

Left In: 1184.966 ± 0.206 $\chi^2/\text{NDF}: 1190431.5/22$

Left: 1173.311 ± 0.143 $\chi^2/\text{NDF}: 2585836.6/46$

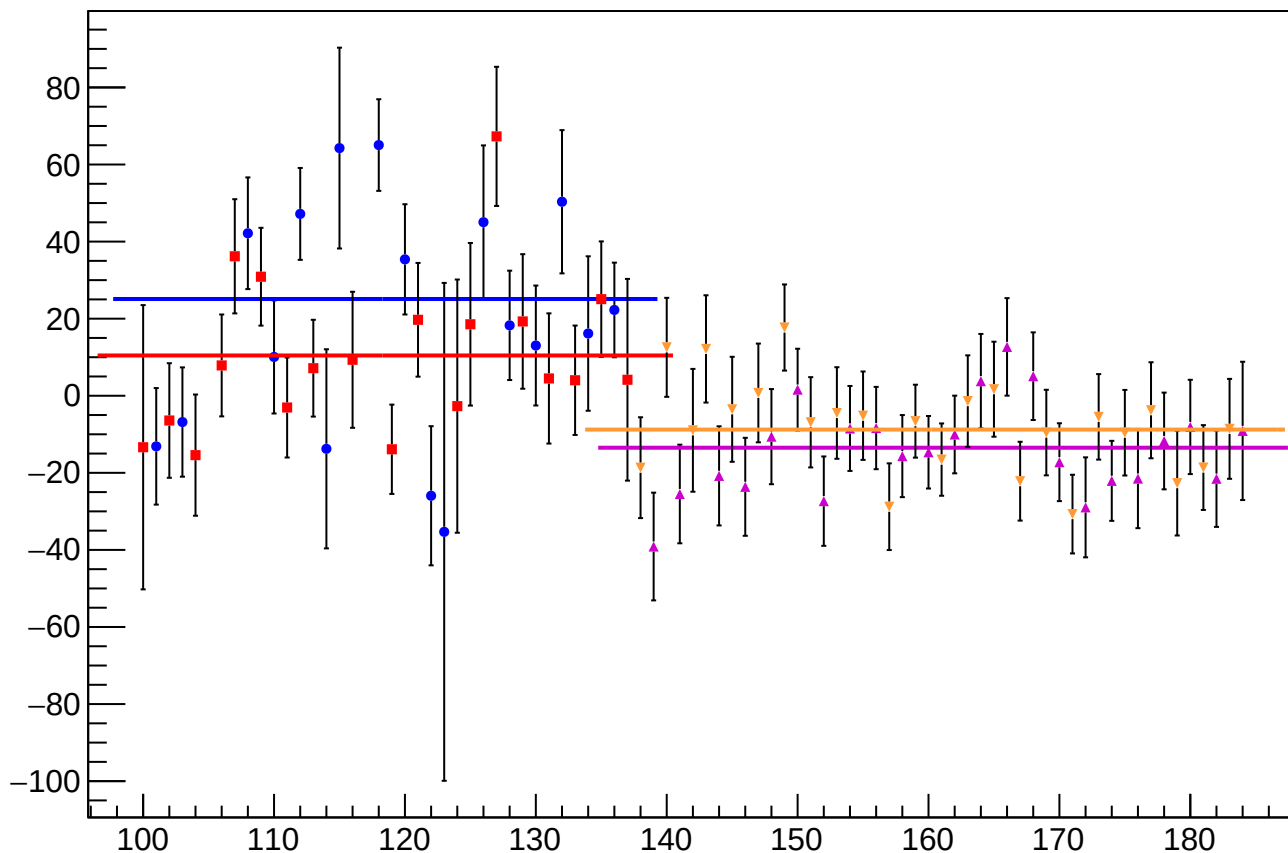
Right: 1226.173 ± 0.233 $\chi^2/\text{NDF}: 64961.9/35$

In: 1198.263 ± 0.175 $\chi^2/\text{NDF}: 1229418.4/39$

Out: 1177.907 ± 0.169 $\chi^2/\text{NDF}: 1451786.3/42$

All: 1187.695 ± 0.122 $\chi^2/\text{NDF}: 2688193.8/82$

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.108 $\pm$ 3.844 χ^2 /NDF: 46.5/16

Left Out: -8.778 $\pm$ 2.382 χ^2 /NDF:25.6/23

Right Out: 10.450 $\pm$ 3.598 χ^2 /NDF: 27.8/18

Left In: -13.485 $\pm$ 2.443 χ^2 /NDF:21.6/22

Left: -11.073 $\pm$ 1.706 χ^2 /NDF: 49.1/46

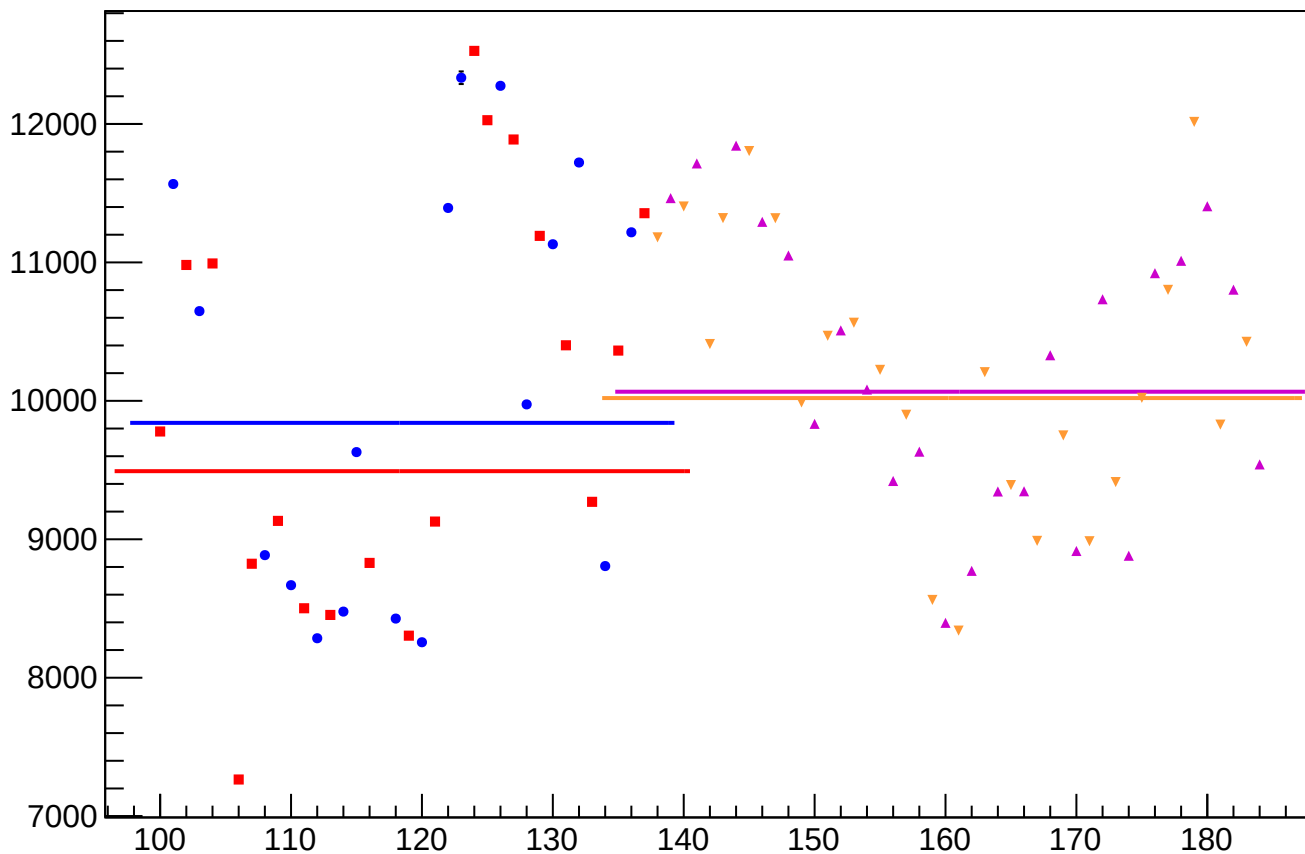
Right: 17.296 $\pm$ 2.627 χ^2 /NDF: 82.1/35

In: -2.383 $\pm$ 2.062 χ^2 /NDF:139.8/39

Out: -2.918 $\pm$ 1.986 χ^2 /NDF:73.3/42

All: -2.660 $\pm$ 1.431 χ^2 /NDF: 213.2/82

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9840.966 $\pm$ 2.718 χ^2/NDF : 259106.8/16

Left Out: 10020.044 $\pm$ 1.685 χ^2/NDF :339456.7/23

Right Out: 9491.994 $\pm$ 2.544 χ^2/NDF : 274580.8/18

Left In: 10065.909 $\pm$ 1.727 χ^2/NDF :357868.9/22

Left: 10042.403 $\pm$ 1.206 χ^2/NDF : 697686.9/46

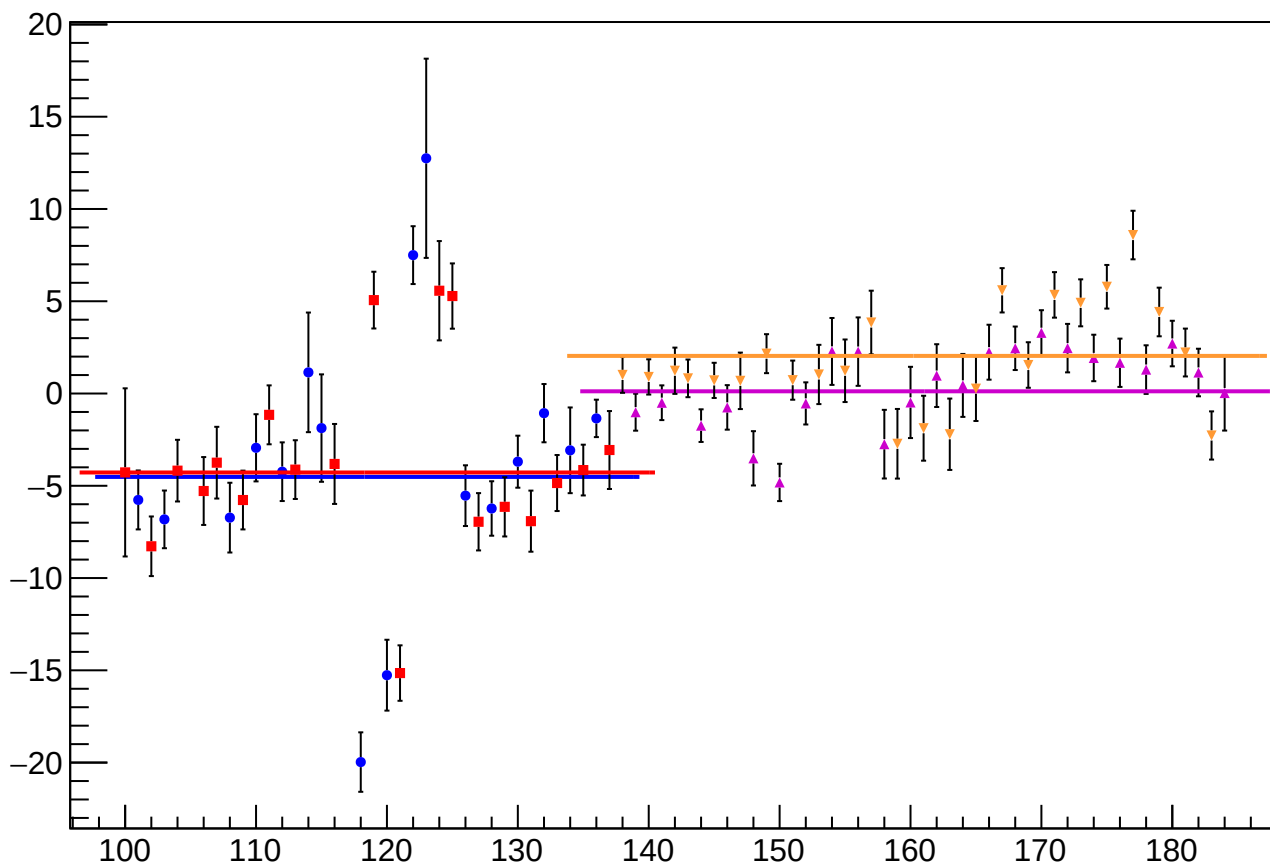
Right: 9654.969 $\pm$ 1.858 χ^2/NDF : 542472.7/35

In: 10001.201 $\pm$ 1.458 χ^2/NDF :621854.1/39

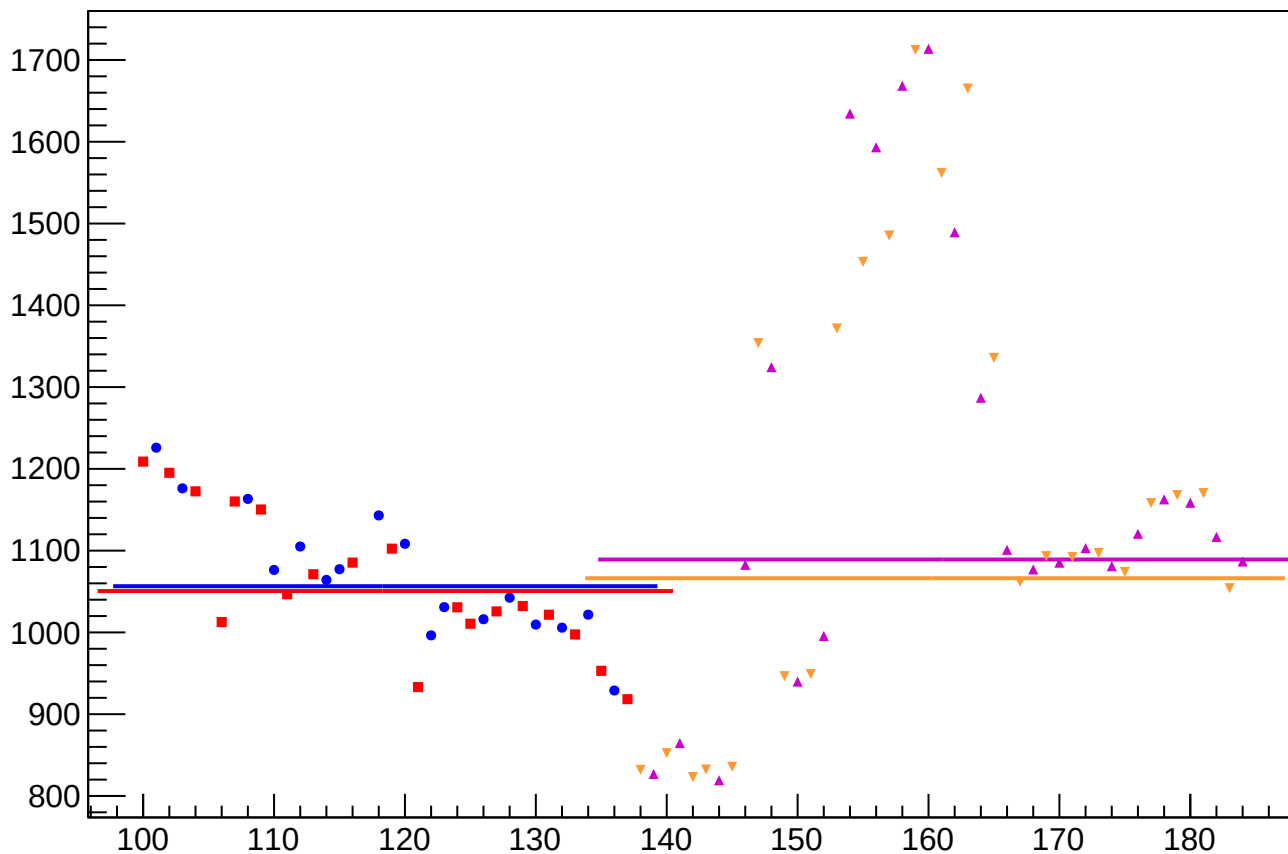
Out: 9859.110 $\pm$ 1.405 χ^2/NDF :643981.7/42

All: 9927.515 $\pm$ 1.012 χ^2/NDF : 1270762.0/82

diff_bpm0l07Y_mean vs Slug, Sign Corrected



diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.494+/-0.289 $\chi^2/\text{NDF}: 90759.5/16$

Left Out: 1066.274+/-0.182 $\chi^2/\text{NDF}: 1600302.7/23$

Right Out: 1050.578+/-0.279 $\chi^2/\text{NDF}: 82328.7/18$

Left In: 1089.154+/-0.190 $\chi^2/\text{NDF}: 1430478.5/22$

Left: 1077.253+/-0.132 $\chi^2/\text{NDF}: 3038324.3/46$

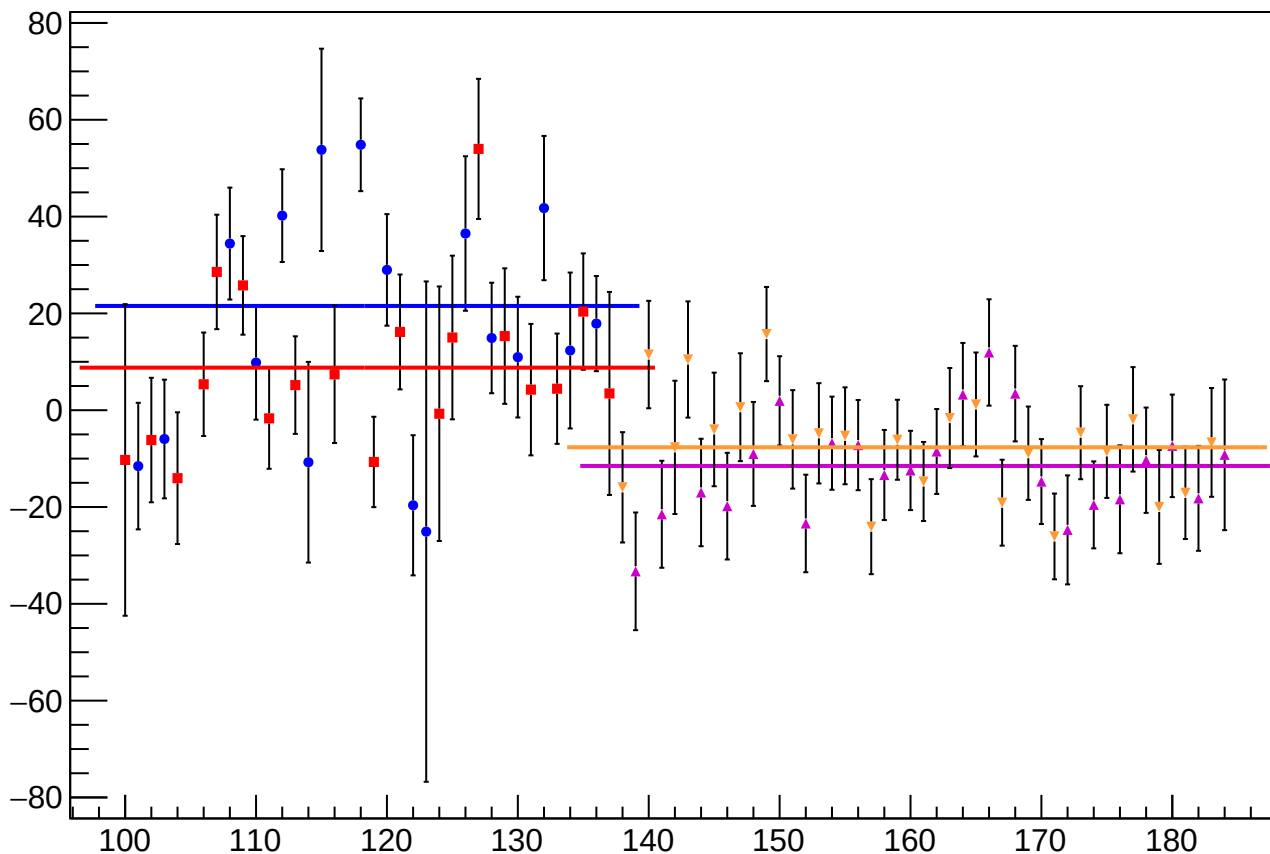
Right: 1053.431+/-0.201 $\chi^2/\text{NDF}: 173304.9/35$

In: 1079.305+/-0.159 $\chi^2/\text{NDF}: 1530149.3/39$

Out: 1061.572+/-0.153 $\chi^2/\text{NDF}: 1684847.7/42$

All: 1070.094+/-0.110 $\chi^2/\text{NDF}: 3221475.6/82$

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.541 ± 3.116 $\chi^2/\text{NDF}: 47.9/16$

Left Out: -7.659 ± 2.070 $\chi^2/\text{NDF}: 25.5/23$

Right Out: 8.792 ± 2.915 $\chi^2/\text{NDF}: 27.6/18$

Left In: -11.515 ± 2.122 $\chi^2/\text{NDF}: 21.0/22$

Left: -9.538 ± 1.482 $\chi^2/\text{NDF}: 48.2/46$

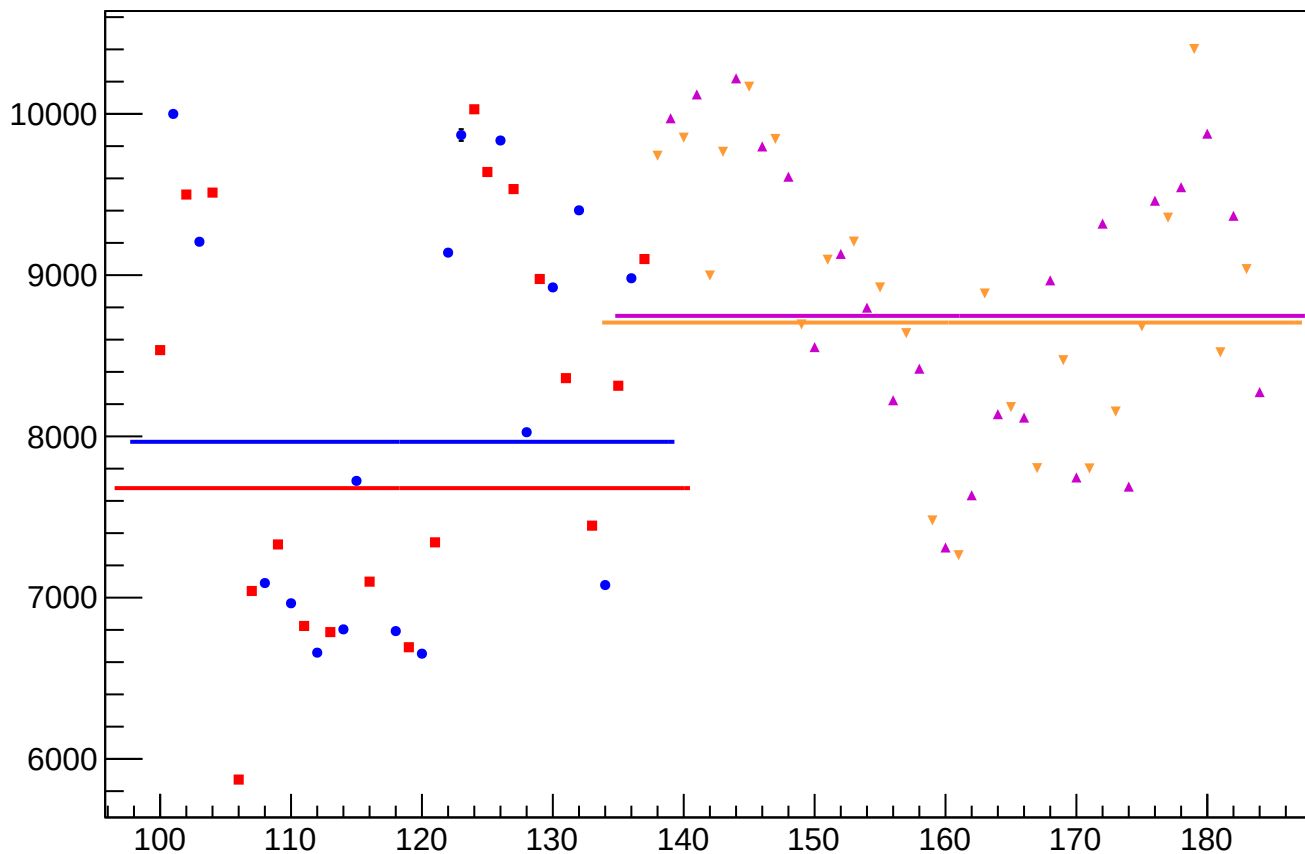
Right: 14.742 ± 2.129 $\chi^2/\text{NDF}: 84.4/35$

In: -1.039 ± 1.754 $\chi^2/\text{NDF}: 145.8/39$

Out: -2.145 ± 1.687 $\chi^2/\text{NDF}: 74.2/42$

All: -1.613 ± 1.216 $\chi^2/\text{NDF}: 220.2/82$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.450 ± 2.203 χ^2/NDF : 295660.2/16

Left Out: 8705.966 ± 1.463 χ^2/NDF : 327494.9/23

Right Out: 7679.131 ± 2.061 χ^2/NDF : 313051.7/18

Left In: 8747.415 ± 1.501 χ^2/NDF : 347110.4/22

Left: 8726.169 ± 1.048 χ^2/NDF : 674996.3/46

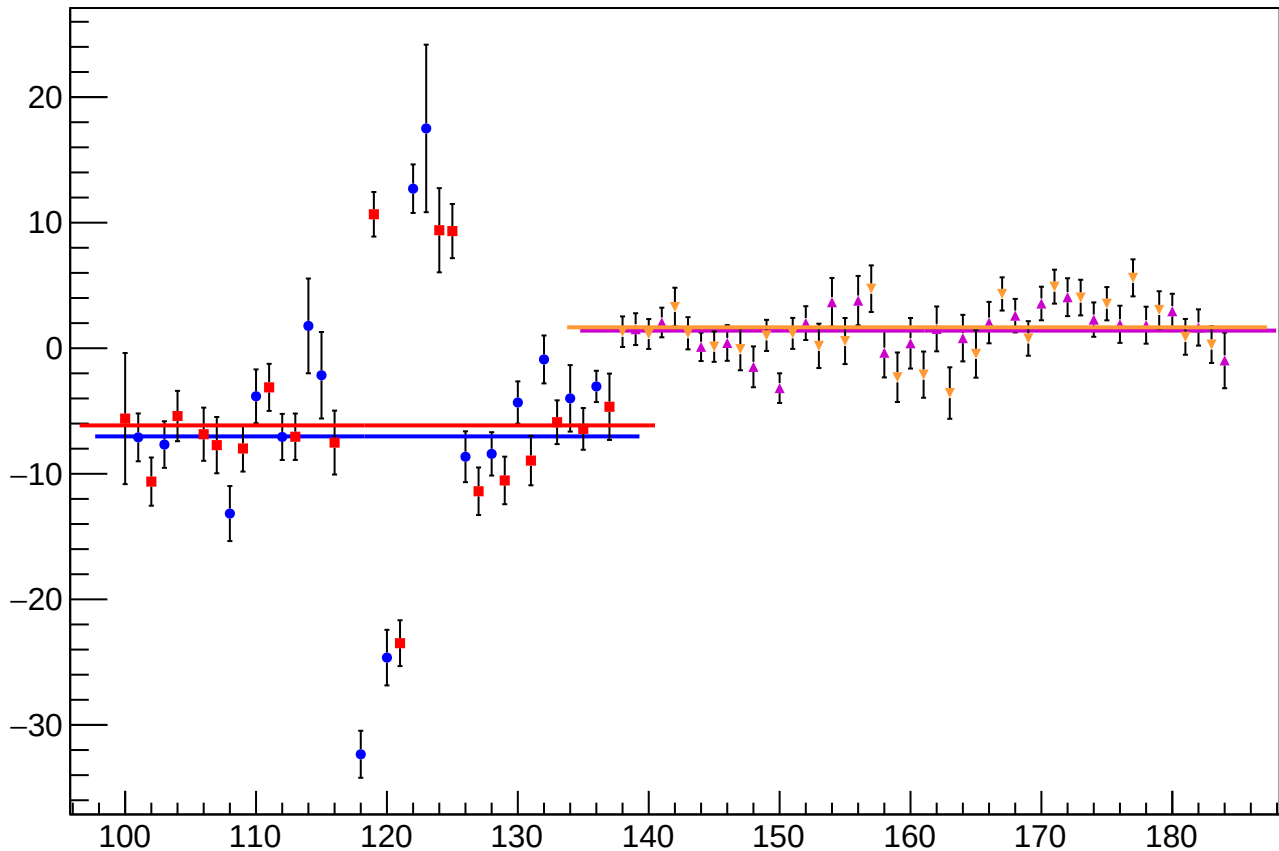
Right: 7813.225 ± 1.505 χ^2/NDF : 617781.0/35

In: 8499.913 ± 1.240 χ^2/NDF : 728594.0/39

Out: 8361.820 ± 1.193 χ^2/NDF : 805557.6/42

All: 8428.195 ± 0.860 χ^2/NDF : 1540589.2/82

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.022 $\pm$ 0.487 χ^2/NDF : 407.3/16

Left Out: 1.666 $\pm$ 0.297 χ^2/NDF : 48.6/23

Right Out: -6.146 $\pm$ 0.467 χ^2/NDF : 278.4/18

Left In: 1.404 $\pm$ 0.309 χ^2/NDF : 34.1/22

Left: 1.540 $\pm$ 0.214 χ^2/NDF : 83.1/46

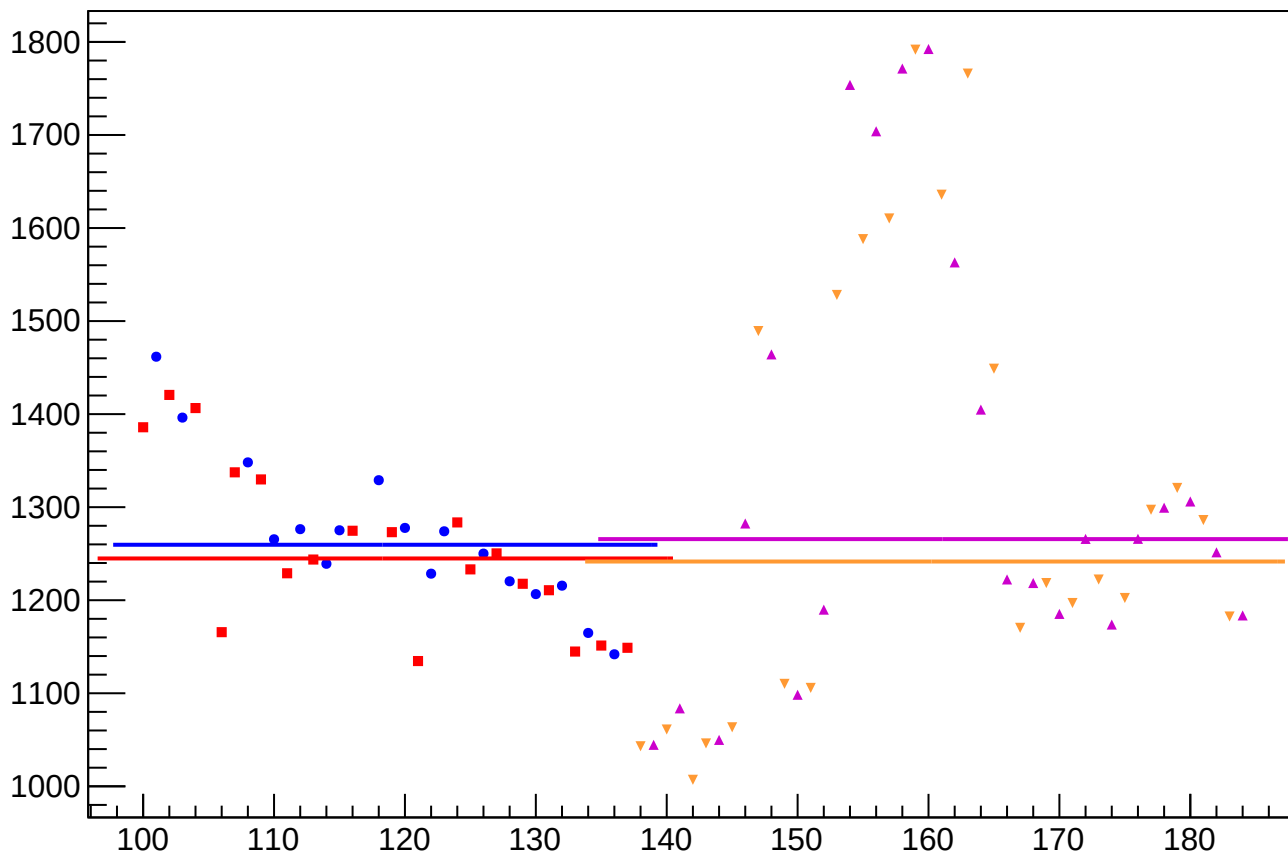
Right: -6.566 $\pm$ 0.337 χ^2/NDF : 687.3/35

In: -1.014 $\pm$ 0.261 χ^2/NDF : 654.8/39

Out: -0.584 $\pm$ 0.251 χ^2/NDF : 525.9/42

All: -0.791 $\pm$ 0.181 χ^2/NDF : 1182.1/82

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1259.602 $\pm$ 0.344 χ^2/NDF : 64816.8/16

Left Out: 1241.590 $\pm$ 0.210 χ^2/NDF : 954987.4/23

Right Out: 1244.874 $\pm$ 0.331 χ^2/NDF : 66819.5/18

Left In: 1265.673 $\pm$ 0.218 χ^2/NDF : 845157.0/22

Left: 1253.169 $\pm$ 0.151 χ^2/NDF : 1806453.1/46

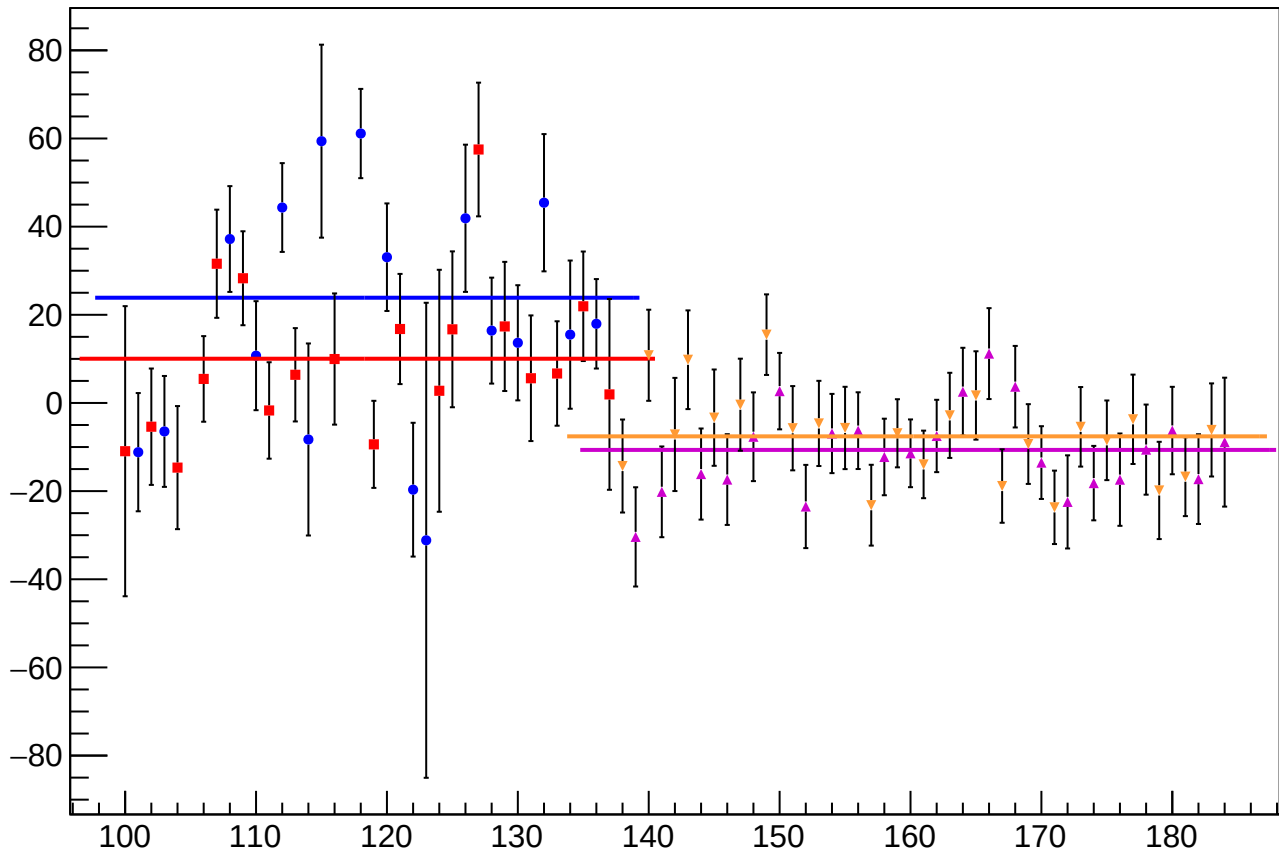
Right: 1251.936 $\pm$ 0.238 χ^2/NDF : 132588.1/35

In: 1263.931 $\pm$ 0.184 χ^2/NDF : 910195.3/39

Out: 1242.536 $\pm$ 0.177 χ^2/NDF : 1021877.2/42

All: 1252.815 $\pm$ 0.128 χ^2/NDF : 1939060.3/82

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.876 ± 3.256 $\chi^2/\text{NDF}: 52.0/16$

Left Out: -7.576 ± 1.938 $\chi^2/\text{NDF}: 26.0/23$

Right Out: 10.036 ± 3.009 $\chi^2/\text{NDF}: 28.1/18$

Left In: -10.653 ± 1.988 $\chi^2/\text{NDF}: 21.4/22$

Left: -9.075 ± 1.387 $\chi^2/\text{NDF}: 48.6/46$

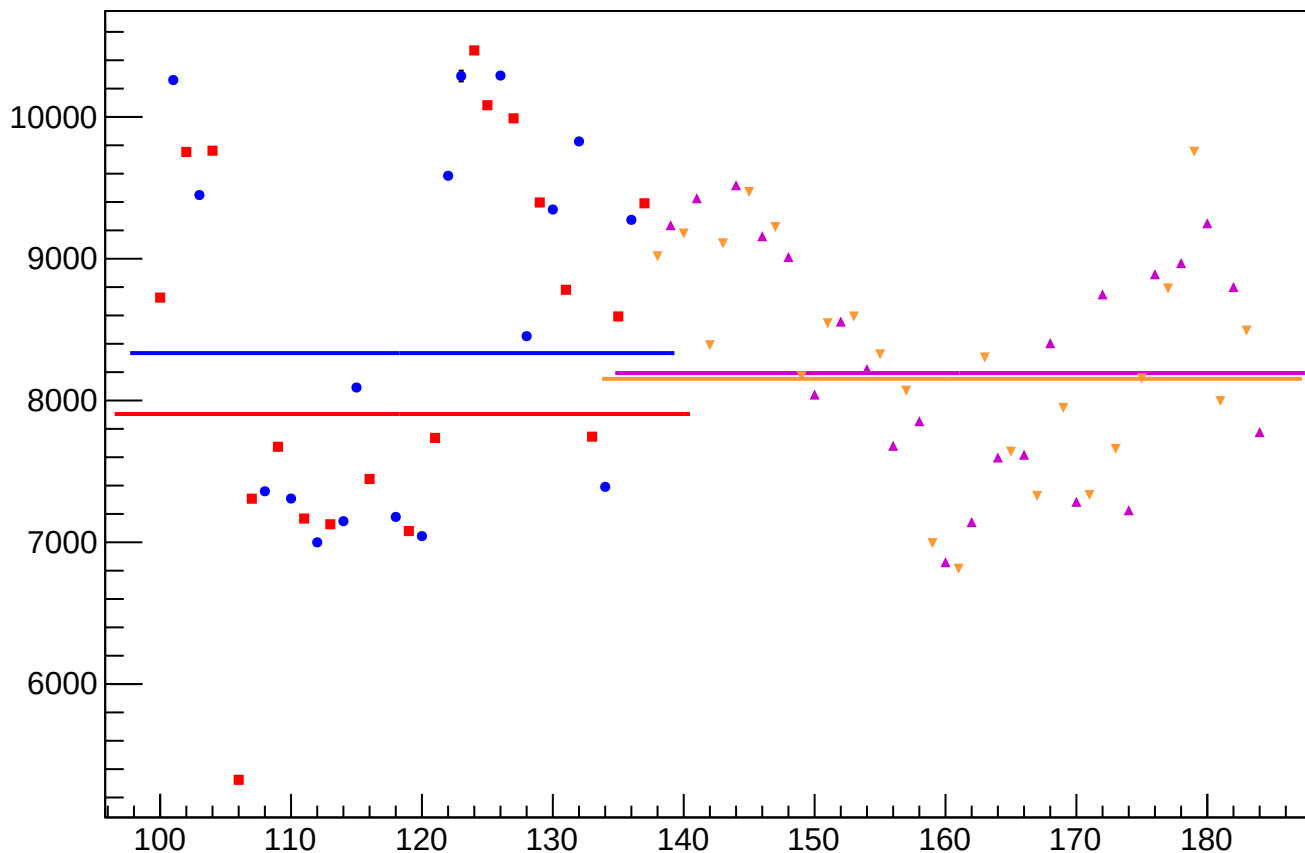
Right: 16.410 ± 2.210 $\chi^2/\text{NDF}: 89.8/35$

In: -1.280 ± 1.697 $\chi^2/\text{NDF}: 155.3/39$

Out: -2.412 ± 1.629 $\chi^2/\text{NDF}: 78.3/42$

All: -1.869 ± 1.175 $\chi^2/\text{NDF}: 233.8/82$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8334.433 $\pm$ 2.303 χ^2 /NDF: 271366.4/16

Left Out: 8152.798 $\pm$ 1.370 χ^2 /NDF:317401.7/23

Right Out: 7904.987 $\pm$ 2.127 χ^2 /NDF: 388597.2/18

Left In: 8193.636 $\pm$ 1.405 χ^2 /NDF:338377.6/22

Left: 8172.698 $\pm$ 0.981 χ^2 /NDF: 656212.3/46

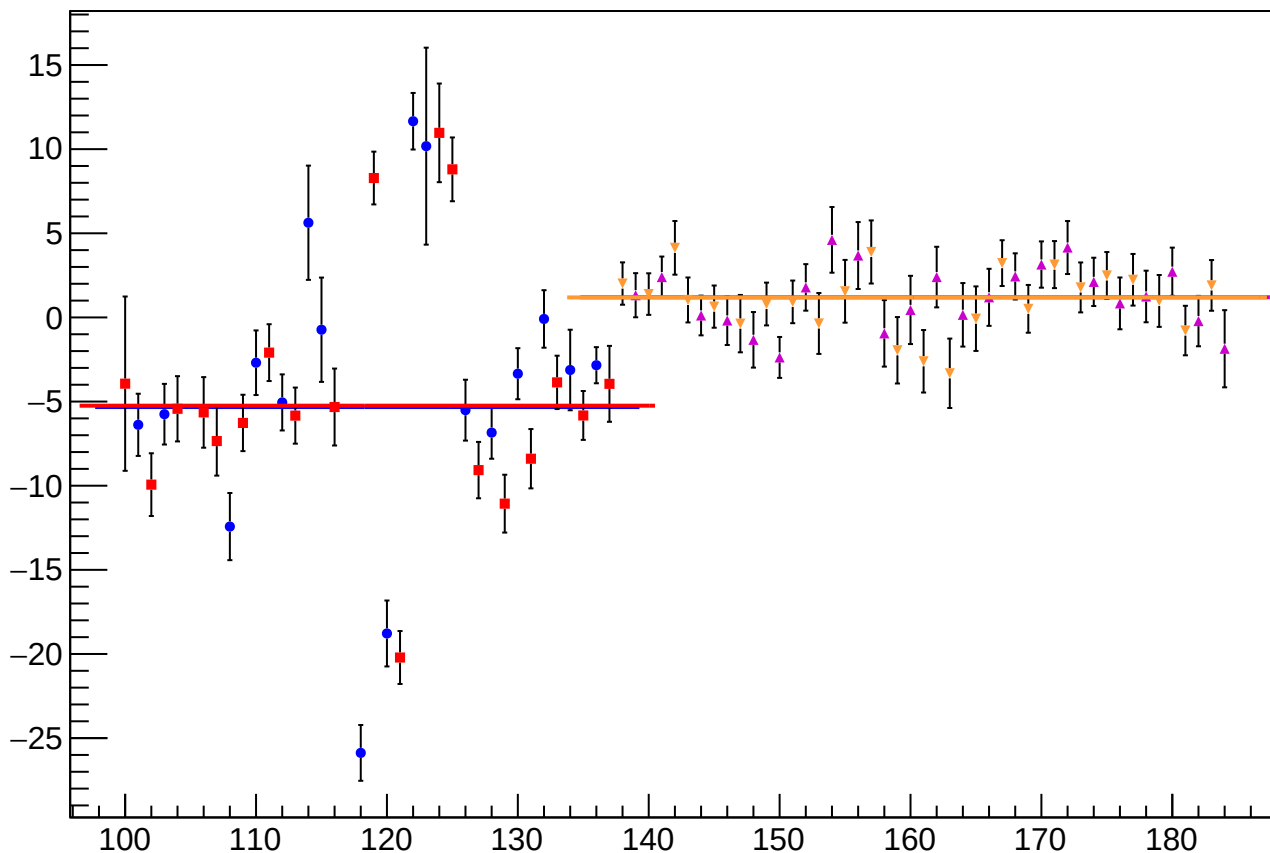
Right: 8102.760 $\pm$ 1.563 χ^2 /NDF: 678729.4/35

In: 8231.854 $\pm$ 1.200 χ^2 /NDF:612468.2/39

Out: 8080.145 $\pm$ 1.152 χ^2 /NDF:715589.4/42

All: 8152.923 $\pm$ 0.831 χ^2 /NDF: 1336378.5/82

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.325 ± 0.438 χ^2/NDF : 355.9/16

Left Out: 1.189 ± 0.306 χ^2/NDF : 27.8/23

Right Out: -5.245 ± 0.422 χ^2/NDF : 283.1/18

Left In: 1.198 ± 0.318 χ^2/NDF : 31.2/22

Left: 1.193 ± 0.221 χ^2/NDF : 58.9/46

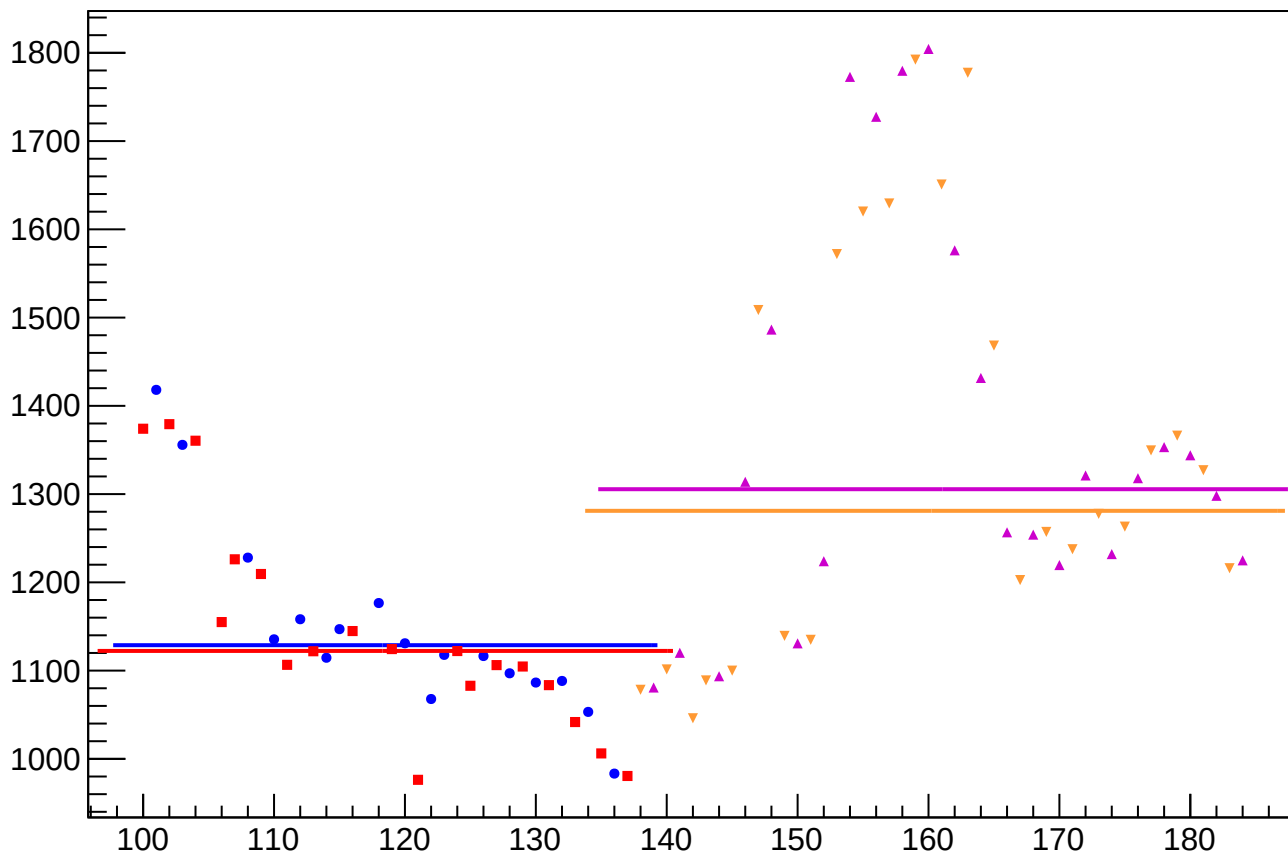
Right: -5.283 ± 0.304 χ^2/NDF : 639.0/35

In: -1.057 ± 0.257 χ^2/NDF : 532.3/39

Out: -1.028 ± 0.248 χ^2/NDF : 462.9/42

All: -1.042 ± 0.179 χ^2/NDF : 995.3/82

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1128.798 $\pm$ 0.309 χ^2/NDF : 133077.7/16

Left Out: 1281.050 $\pm$ 0.217 χ^2/NDF : 868550.7/23

Right Out: 1122.305 $\pm$ 0.299 χ^2/NDF : 129605.6/18

Left In: 1305.541 $\pm$ 0.225 χ^2/NDF : 760450.8/22

Left: 1292.829 $\pm$ 0.156 χ^2/NDF : 1635153.2/46

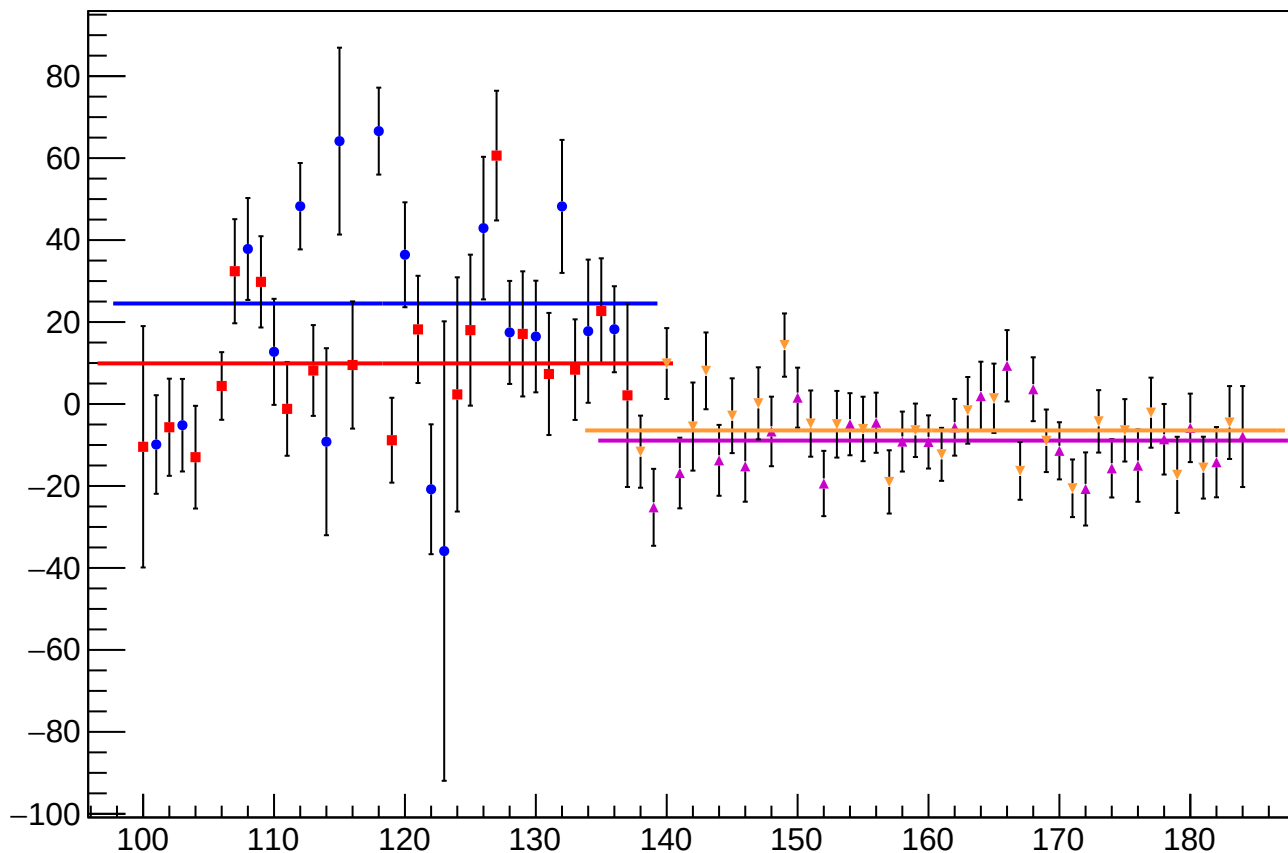
Right: 1125.436 $\pm$ 0.215 χ^2/NDF : 262911.2/35

In: 1244.431 $\pm$ 0.182 χ^2/NDF : 1106945.1/39

Out: 1226.351 $\pm$ 0.175 χ^2/NDF : 1183317.8/42

All: 1235.055 $\pm$ 0.126 χ^2/NDF : 2295382.5/82

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.527 ± 3.324 $\chi^2/\text{NDF}: 57.7/16$

Left Out: -6.444 ± 1.632 $\chi^2/\text{NDF}: 28.4/23$

Right Out: 9.911 ± 3.010 $\chi^2/\text{NDF}: 28.9/18$

Left In: -8.923 ± 1.674 $\chi^2/\text{NDF}: 21.8/22$

Left: -7.652 ± 1.169 $\chi^2/\text{NDF}: 51.3/46$

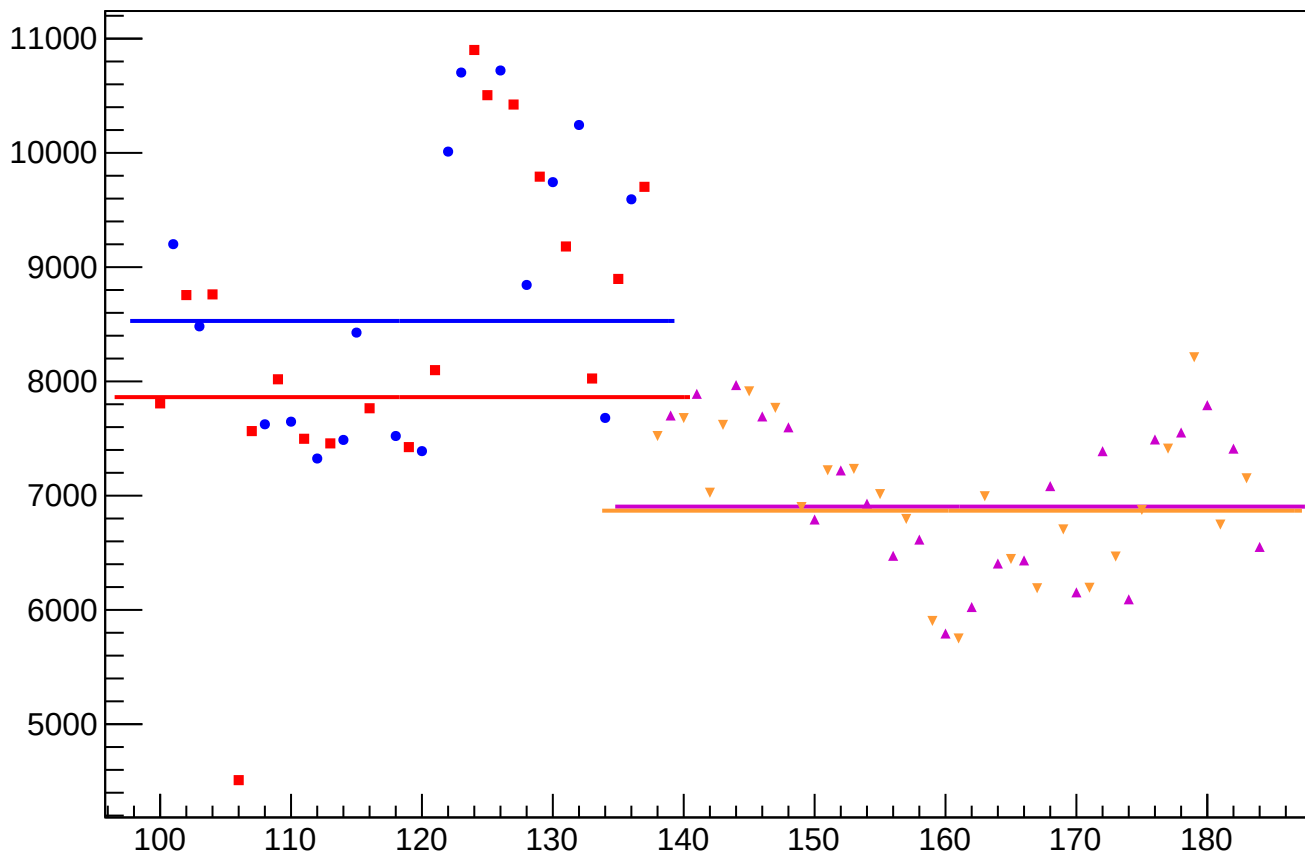
Right: 16.498 ± 2.231 $\chi^2/\text{NDF}: 97.2/35$

In: -2.153 ± 1.495 $\chi^2/\text{NDF}: 160.3/39$

Out: -2.729 ± 1.435 $\chi^2/\text{NDF}: 80.1/42$

All: -2.453 ± 1.035 $\chi^2/\text{NDF}: 240.4/82$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8529.154 ± 2.350 χ^2/NDF : 207392.9/16

Left Out: 6868.600 ± 1.154 χ^2/NDF : 302777.6/23

Right Out: 7862.444 ± 2.129 χ^2/NDF : 552825.5/18

Left In: 6904.117 ± 1.184 χ^2/NDF : 325912.6/22

Left: 6885.904 ± 0.826 χ^2/NDF : 629151.7/46

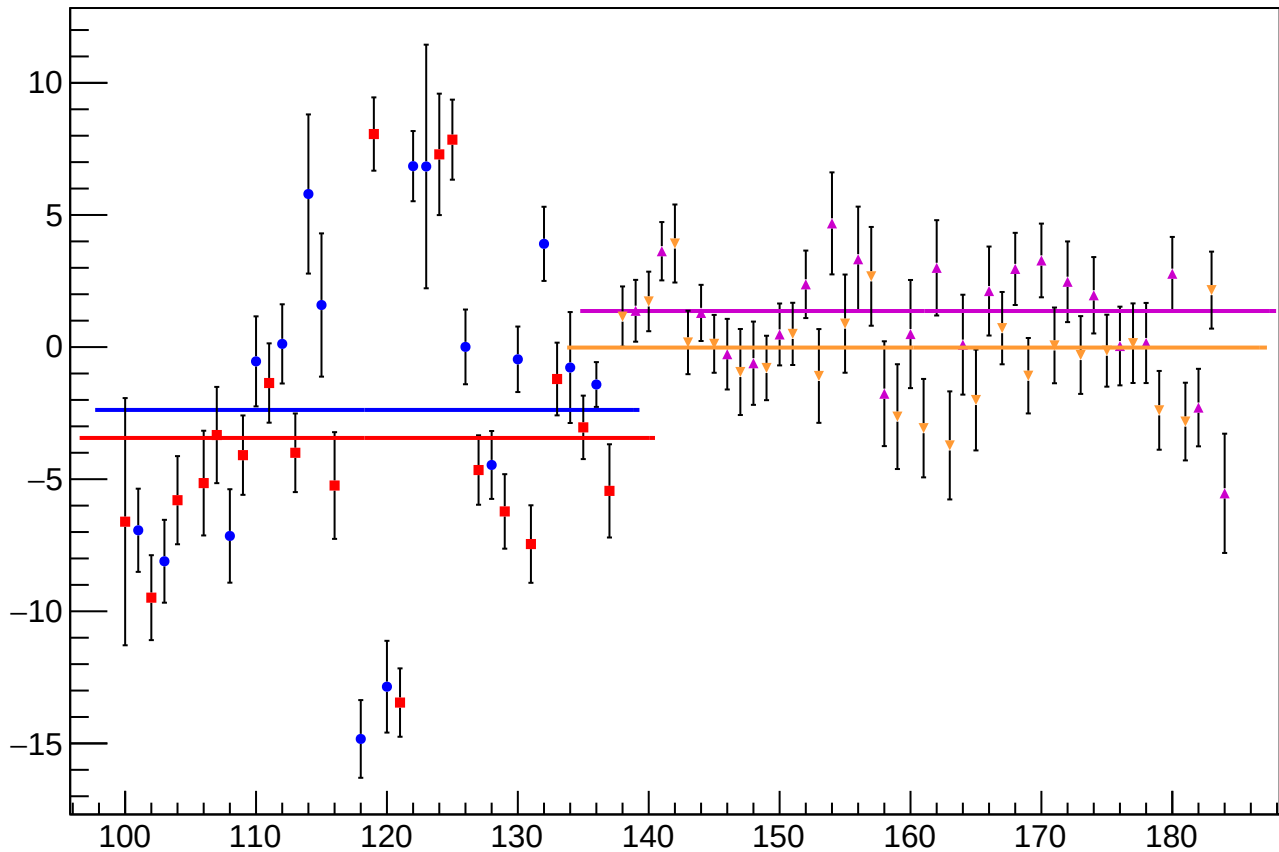
Right: 8162.886 ± 1.578 χ^2/NDF : 804422.1/35

In: 7232.991 ± 1.057 χ^2/NDF : 914587.6/39

Out: 7094.333 ± 1.015 χ^2/NDF : 1024065.9/42

All: 7160.796 ± 0.732 χ^2/NDF : 1947607.4/82

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.379 ± 0.366 χ^2/NDF : 232.6/16

Left Out: -0.018 ± 0.294 χ^2/NDF : 32.3/23

Right Out: -3.439 ± 0.359 χ^2/NDF : 242.7/18

Left In: 1.365 ± 0.306 χ^2/NDF : 38.5/22

Left: 0.646 ± 0.212 χ^2/NDF : 81.4/46

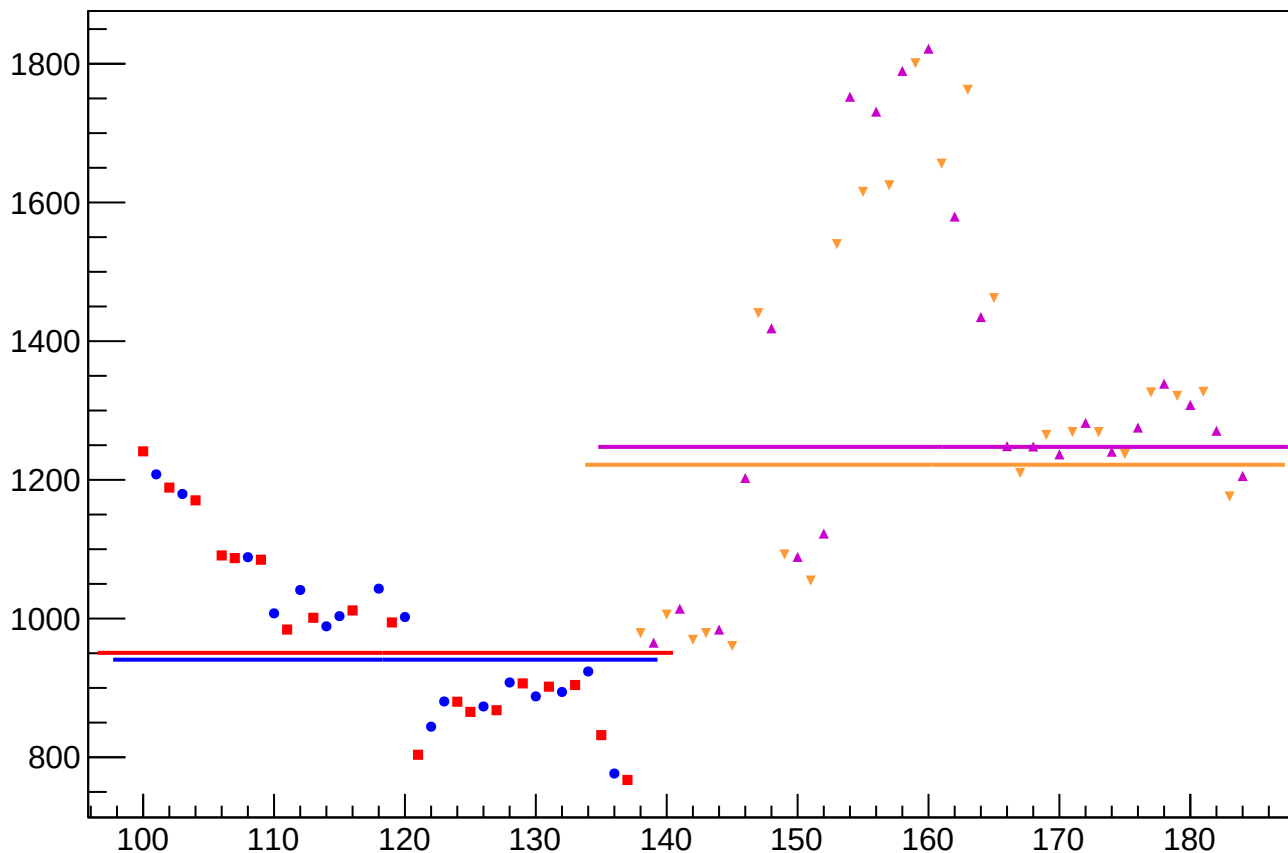
Right: -2.920 ± 0.256 χ^2/NDF : 479.5/35

In: -0.171 ± 0.235 χ^2/NDF : 332.7/39

Out: -1.390 ± 0.227 χ^2/NDF : 329.4/42

All: -0.800 ± 0.163 χ^2/NDF : 676.0/82

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.732 $\pm$ 0.259 χ^2/NDF : 241704.7/16

Left Out: 1221.767 $\pm$ 0.208 χ^2/NDF :1251515.3/23

Right Out: 950.573 $\pm$ 0.254 χ^2/NDF : 220343.0/18

Left In: 1247.538 $\pm$ 0.216 χ^2/NDF :1073390.3/22

Left: 1234.143 $\pm$ 0.150 χ^2/NDF : 2332303.2/46

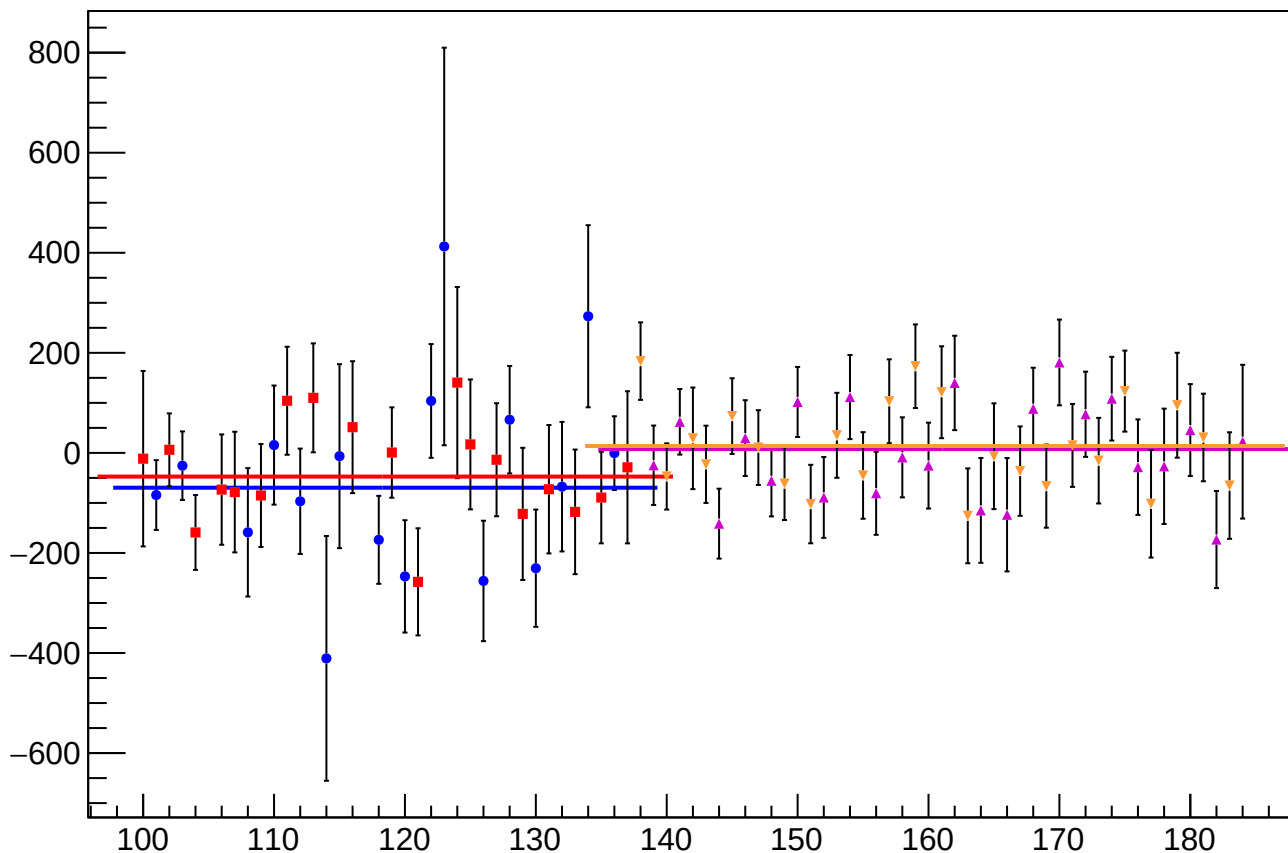
Right: 945.752 $\pm$ 0.181 χ^2/NDF : 462784.3/35

In: 1121.644 $\pm$ 0.166 χ^2/NDF :2142805.8/39

Out: 1113.017 $\pm$ 0.161 χ^2/NDF :2155920.3/42

All: 1117.194 $\pm$ 0.115 χ^2/NDF : 4300121.1/82

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -69.559 ± 25.981 χ^2/NDF : 21.6/16

Left Out: 13.865 ± 17.298 χ^2/NDF : 24.2/23

Right Out: -47.342 ± 25.054 χ^2/NDF : 14.0/18

Left In: 7.618 ± 17.672 χ^2/NDF : 28.1/22

Left: 10.808 ± 12.361 χ^2/NDF : 52.4/46

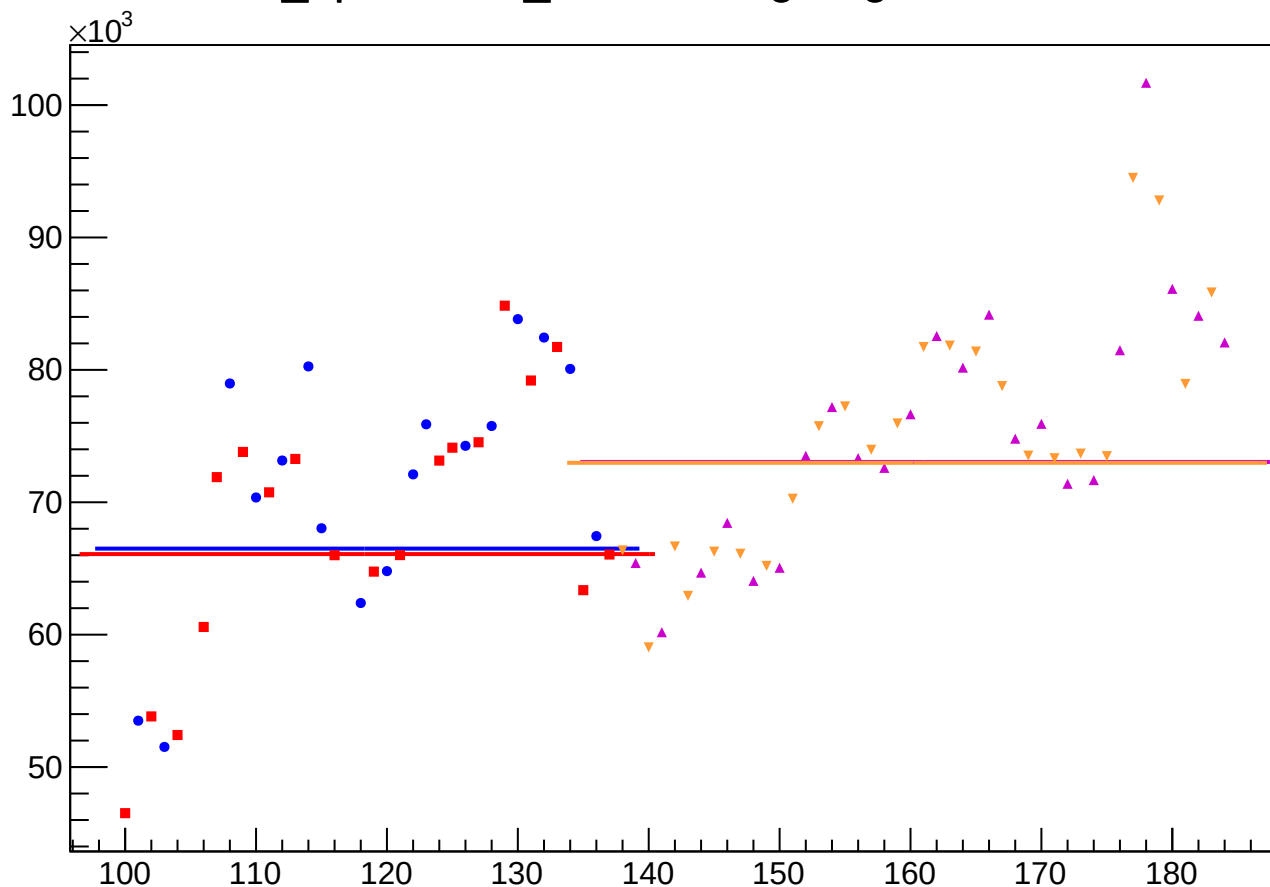
Right: -58.047 ± 18.035 χ^2/NDF : 36.0/35

In: -16.793 ± 14.612 χ^2/NDF : 55.7/39

Out: -5.893 ± 14.235 χ^2/NDF : 42.3/42

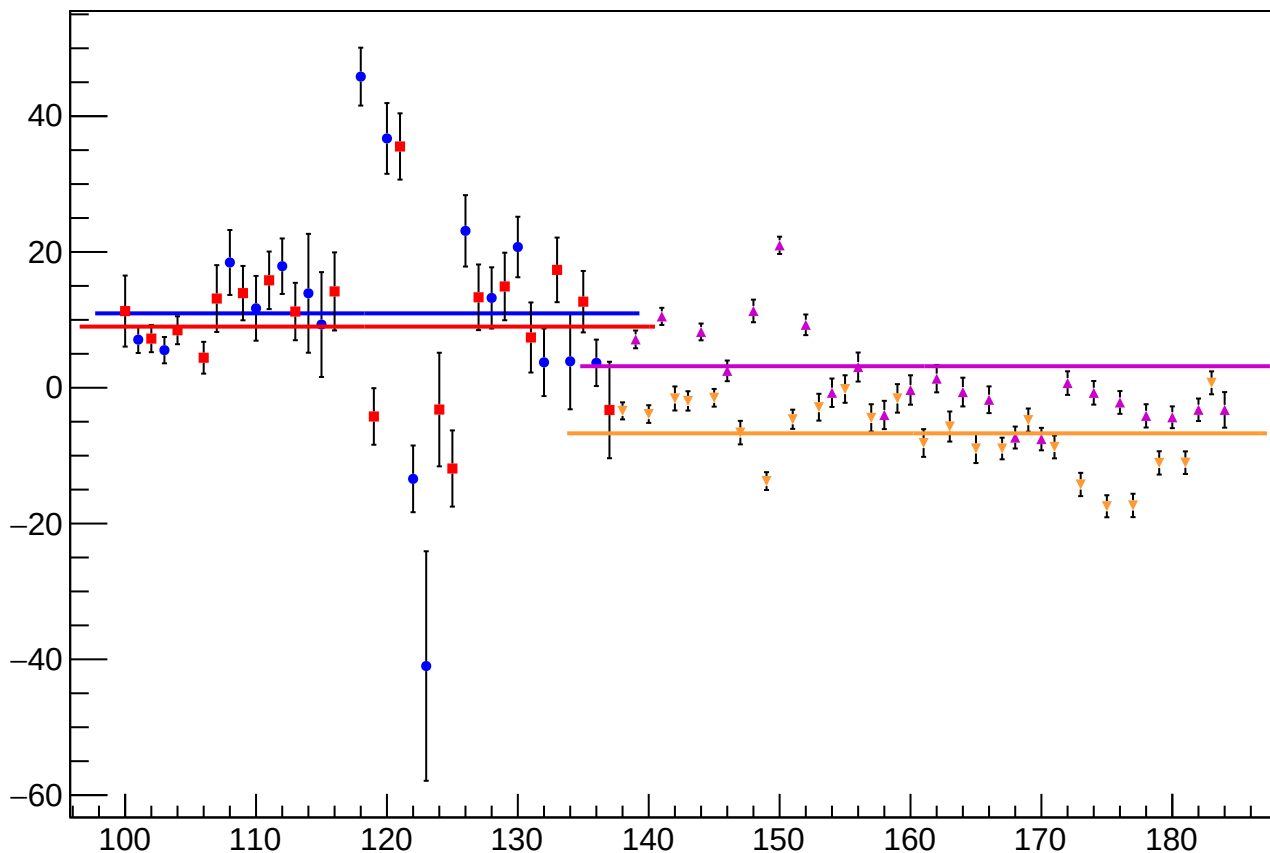
All: -11.201 ± 10.196 χ^2/NDF : 98.3/82

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66500.038 $\pm$ 18.371	χ^2/NDF : 320048.0/16	Left: 73012.506 $\pm$ 8.741	χ^2/NDF : 923123.2/46
Left Out: 72980.892 $\pm$ 12.232	χ^2/NDF : 459584.1/23	Right: 66285.552 $\pm$ 12.752	χ^2/NDF : 618588.3/35
Right Out: 66086.098 $\pm$ 17.716	χ^2/NDF : 298277.2/18	In: 70975.139 $\pm$ 10.332	χ^2/NDF : 870362.5/39
Left In: 73045.500 $\pm$ 12.496	χ^2/NDF : 463525.5/22	Out: 70755.179 $\pm$ 10.066	χ^2/NDF : 860433.5/42
		All: 70862.284 $\pm$ 7.210	χ^2/NDF : 1731028.5/8

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.959 ± 0.944 $\chi^2/\text{NDF}: 160.6/16$

Left Out: -6.715 ± 0.336 $\chi^2/\text{NDF}: 239.9/23$

Right Out: 9.006 ± 0.867 $\chi^2/\text{NDF}: 75.5/18$

Left In: 3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

Left: -1.927 ± 0.241 $\chi^2/\text{NDF}: 1147.0/46$

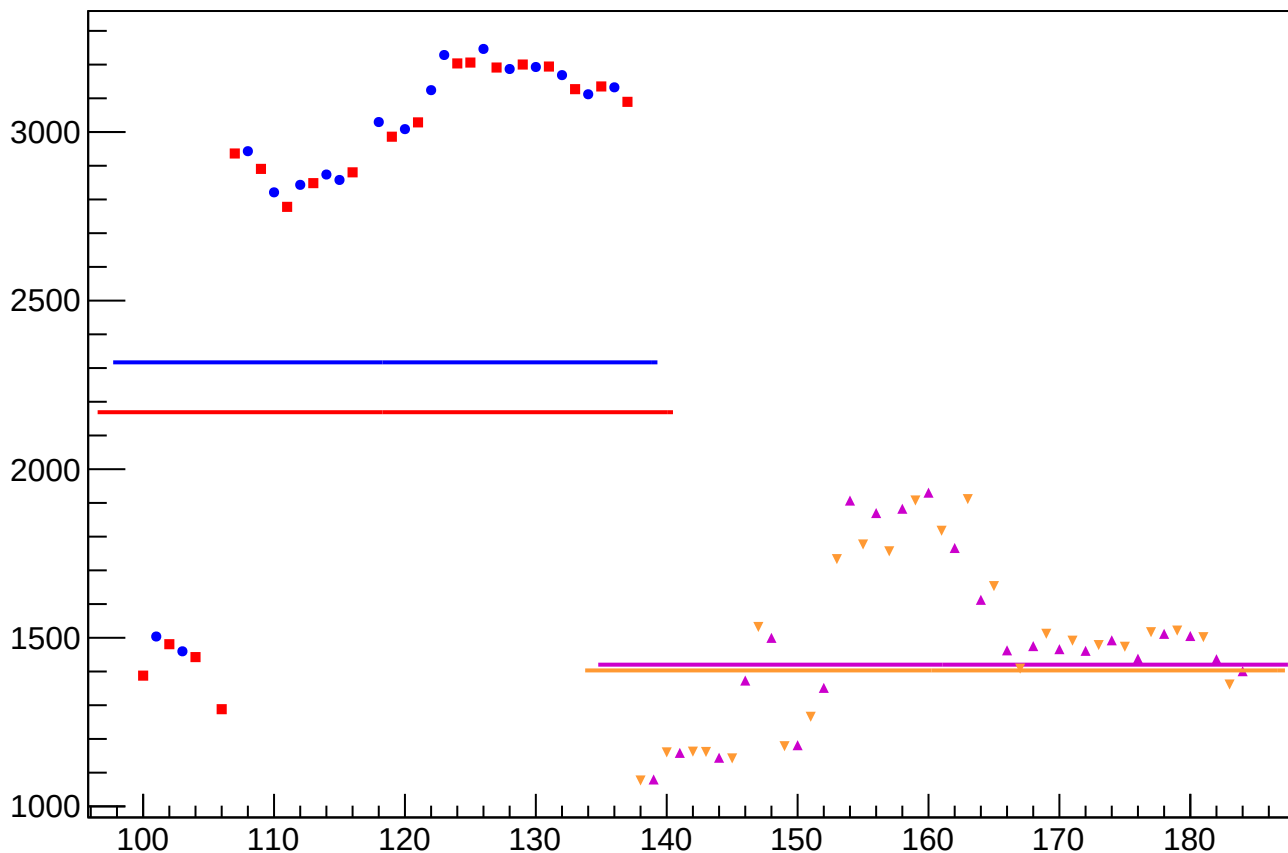
Right: 9.899 ± 0.639 $\chi^2/\text{NDF}: 238.4/35$

In: 4.095 ± 0.325 $\chi^2/\text{NDF}: 707.9/39$

Out: -4.665 ± 0.313 $\chi^2/\text{NDF}: 601.2/42$

All: -0.451 ± 0.226 $\chi^2/\text{NDF}: 1685.5/82$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2316.901 $\pm$ 0.668 χ^2 /NDF: 1405097.4/16

Left Out: 1403.184 $\pm$ 0.237 χ^2 /NDF:1031003.2/23

Right Out: 2169.038 $\pm$ 0.613 χ^2 /NDF: 1749119.2/18

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF:905186.2/22

Left: 1411.467 $\pm$ 0.171 χ^2 /NDF: 1938702.0/46

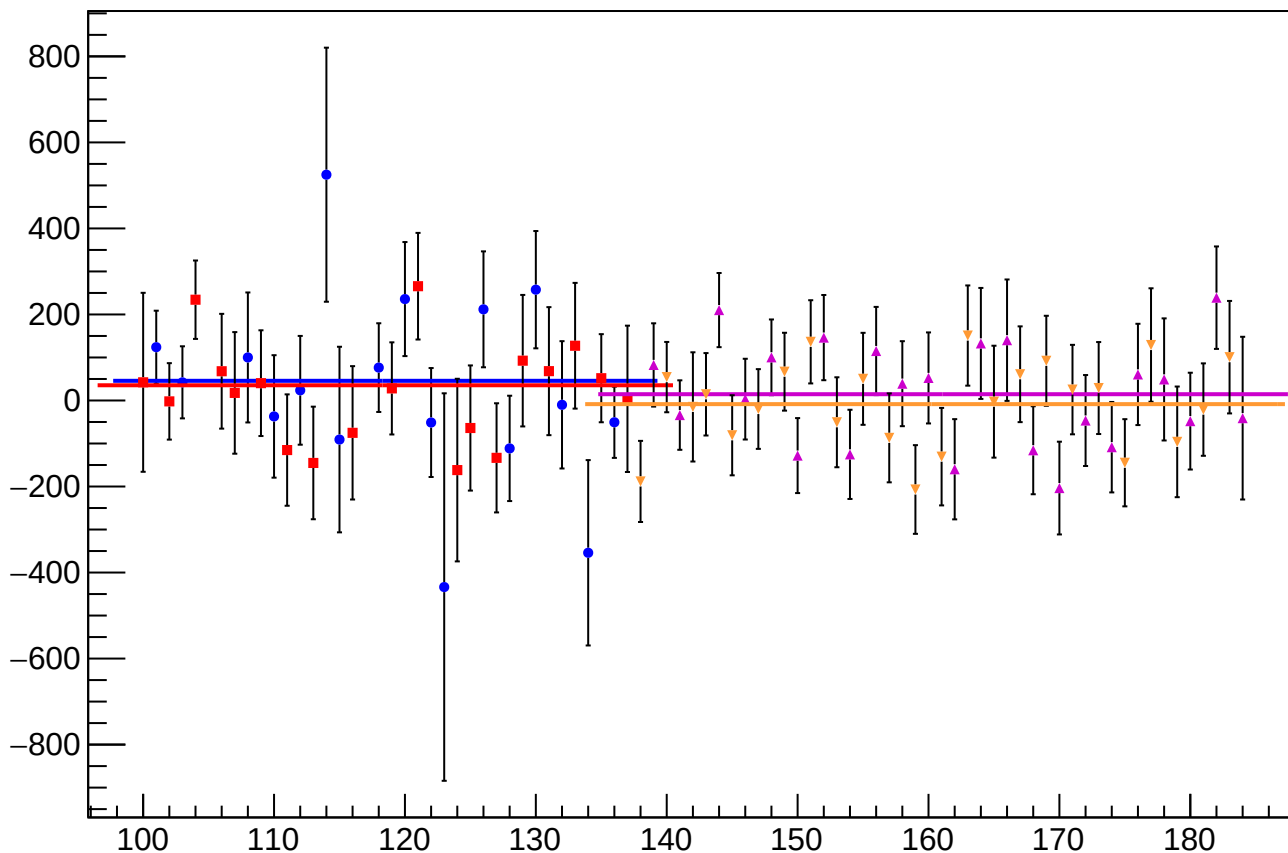
Right: 2236.688 $\pm$ 0.452 χ^2 /NDF: 3180824.5/35

In: 1526.678 $\pm$ 0.230 χ^2 /NDF:3899774.6/39

Out: 1503.060 $\pm$ 0.221 χ^2 /NDF:4136823.4/42

All: 1514.421 $\pm$ 0.160 χ^2 /NDF: 8042071.0/82

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 45.747 $\pm$ 30.474 χ^2/NDF : 18.8/16

Left Out: -8.479 $\pm$ 21.401 χ^2/NDF : 21.2/23

Right Out: 35.391 $\pm$ 29.480 χ^2/NDF : 16.0/18

Left In: 14.611 $\pm$ 21.846 χ^2/NDF : 29.8/22

Left: 2.828 $\pm$ 15.288 χ^2/NDF : 51.6/46

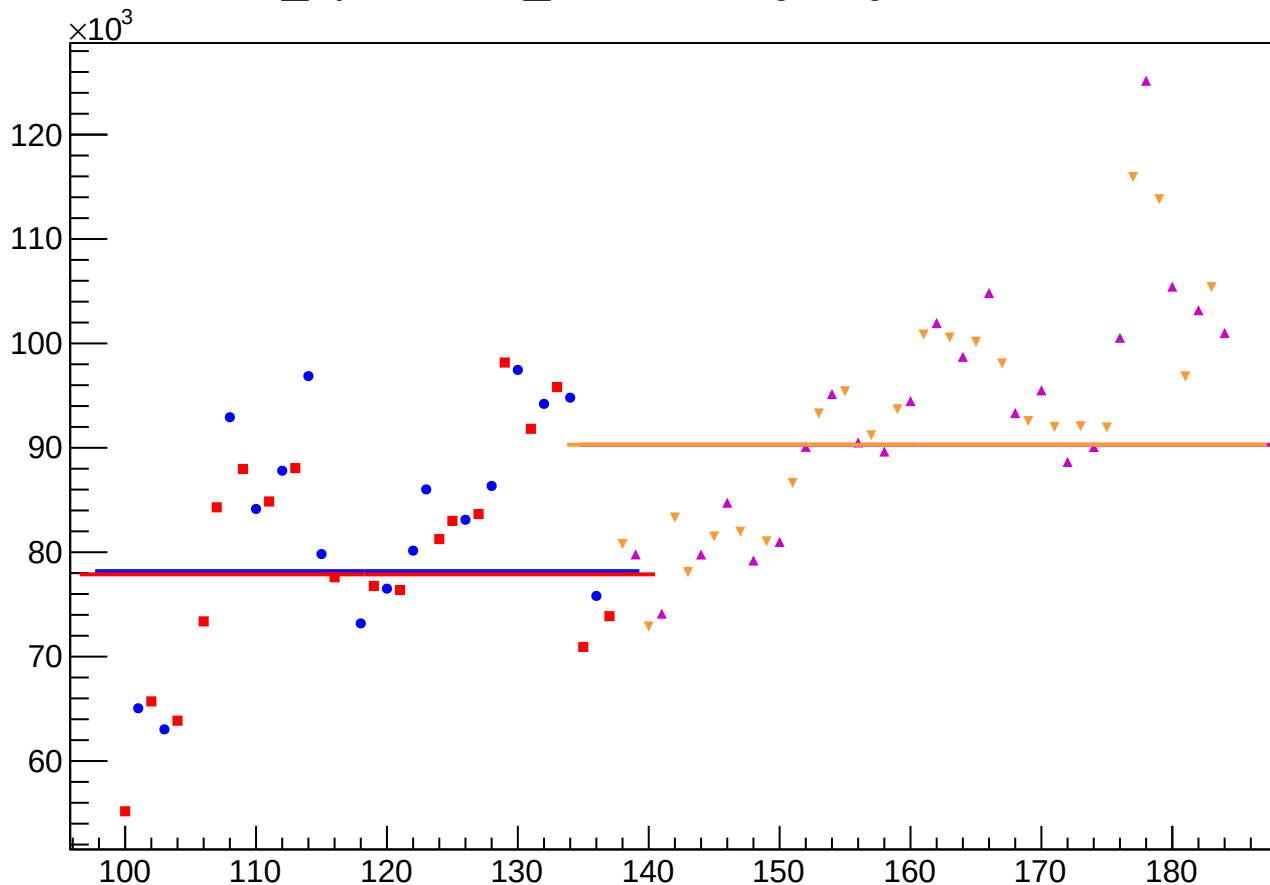
Right: 40.397 $\pm$ 21.188 χ^2/NDF : 34.8/35

In: 25.180 $\pm$ 17.755 χ^2/NDF : 49.3/39

Out: 6.661 $\pm$ 17.319 χ^2/NDF : 38.7/42

All: 15.691 $\pm$ 12.398 χ^2/NDF : 88.5/82

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78183.588 $\pm$ 21.548 χ^2/NDF : 250278.3/16

Left Out: 90294.325 $\pm$ 15.133 χ^2/NDF : 449133.8/23

Right Out: 77880.644 $\pm$ 20.846 χ^2/NDF : 247268.7/18

Left In: 90293.591 $\pm$ 15.448 χ^2/NDF : 461337.5/22

Left: 90293.965 $\pm$ 10.810 χ^2/NDF : 910471.3/46

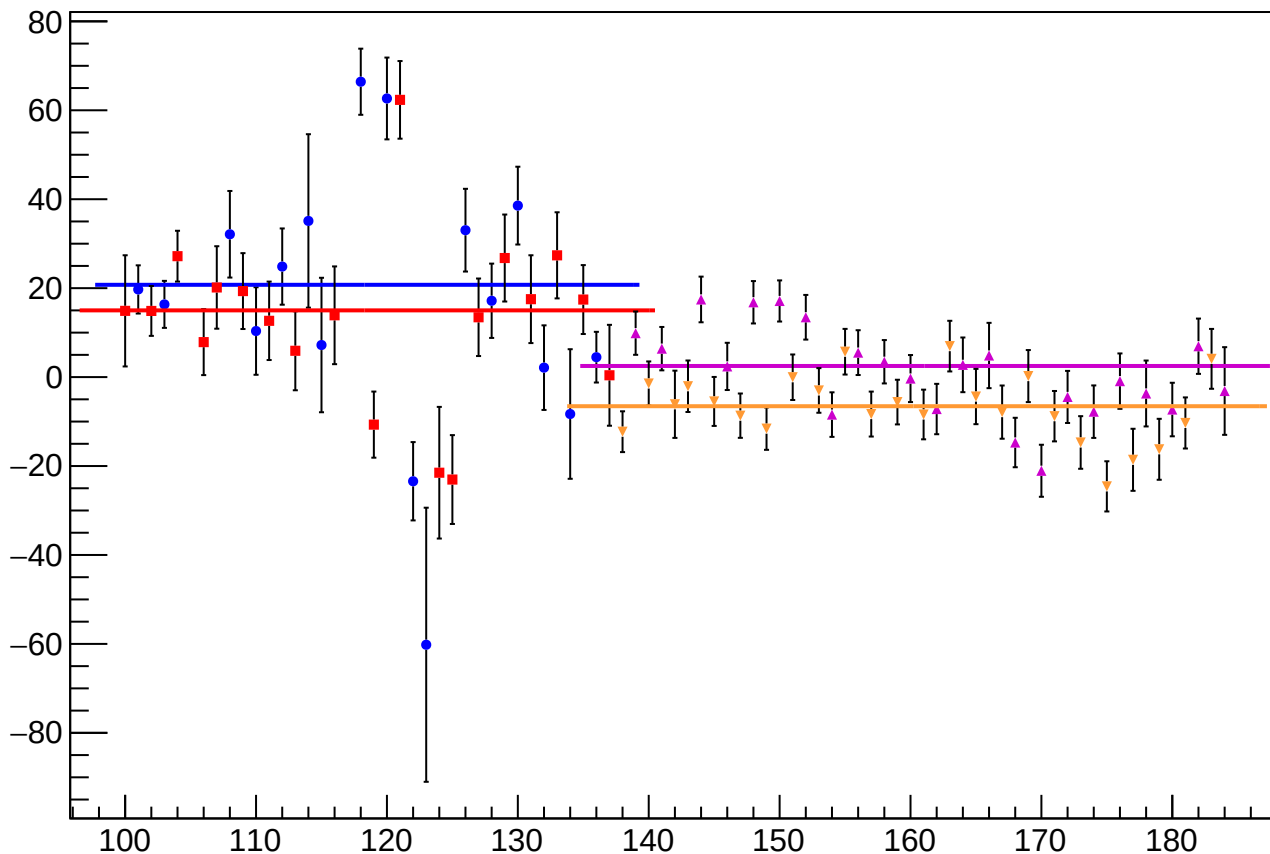
Right: 78027.099 $\pm$ 14.982 χ^2/NDF : 497649.1/35

In: 86182.639 $\pm$ 12.555 χ^2/NDF : 920241.5/39

Out: 86010.047 $\pm$ 12.246 χ^2/NDF : 928637.6/42

All: 86094.197 $\pm$ 8.766 χ^2/NDF : 1848975.9/80

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.754 $\pm$ 2.039 χ^2/NDF : 117.4/16

Left Out: -6.548 $\pm$ 1.133 χ^2/NDF : 40.0/23

Right Out: 15.004 $\pm$ 1.958 χ^2/NDF : 74.0/18

Left In: 2.501 $\pm$ 1.156 χ^2/NDF : 78.4/22

Left: -2.113 $\pm$ 0.809 χ^2/NDF : 149.6/46

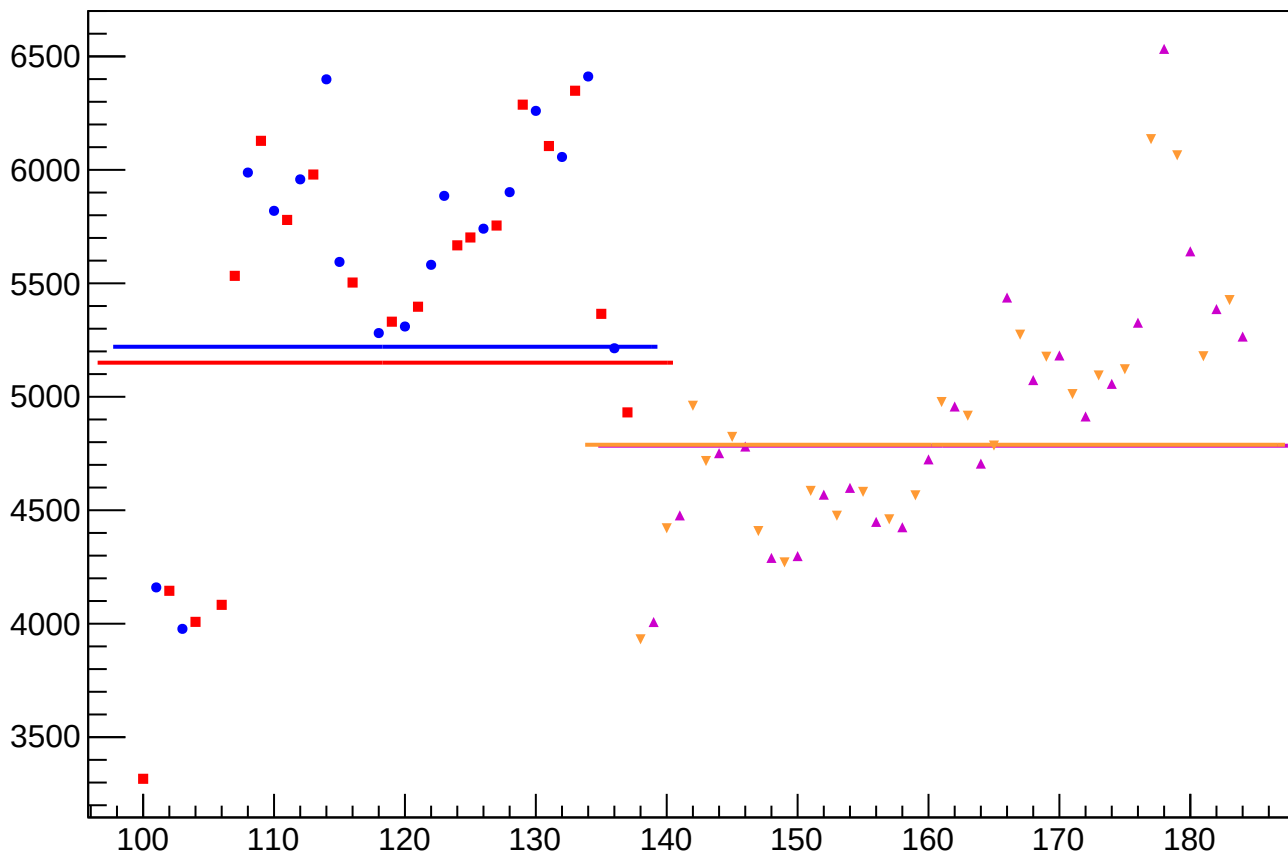
Right: 17.763 $\pm$ 1.412 χ^2/NDF : 195.5/35

In: 6.942 $\pm$ 1.006 χ^2/NDF : 256.4/39

Out: -1.137 $\pm$ 0.981 χ^2/NDF : 204.8/42

All: 2.802 $\pm$ 0.702 χ^2/NDF : 494.3/82

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5220.495 $\pm$ 1.441 χ^2 /NDF: 311533.7/16

Left Out: 4788.659 $\pm$ 0.801 χ^2 /NDF:355696.6/23

Right Out: 5150.309 $\pm$ 1.384 χ^2 /NDF: 387575.3/18

Left In: 4784.434 $\pm$ 0.817 χ^2 /NDF:357507.2/22

Left: 4786.588 $\pm$ 0.572 χ^2 /NDF: 713217.4/46

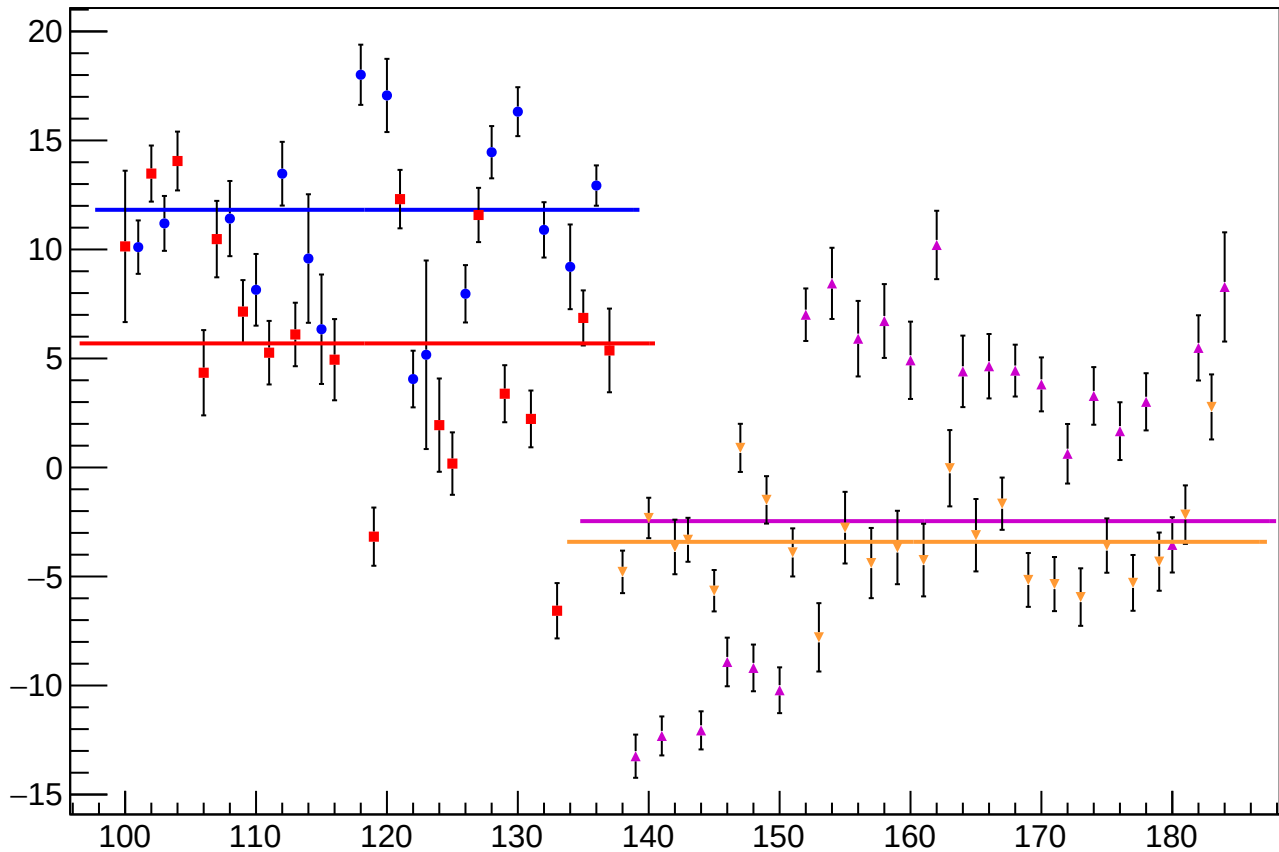
Right: 5183.979 $\pm$ 0.998 χ^2 /NDF: 700342.4/35

In: 4890.526 $\pm$ 0.711 χ^2 /NDF:738288.2/39

Out: 4879.451 $\pm$ 0.694 χ^2 /NDF:794397.5/42

All: 4884.851 $\pm$ 0.496 χ^2 /NDF: 1532810.0/82

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.819 ± 0.345 $\chi^2/\text{NDF}: 115.1/16$

Left Out: -3.410 ± 0.255 $\chi^2/\text{NDF}: 70.9/23$

Right Out: 5.691 ± 0.339 $\chi^2/\text{NDF}: 299.2/18$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.953 ± 0.183 $\chi^2/\text{NDF}: 1005.6/46$

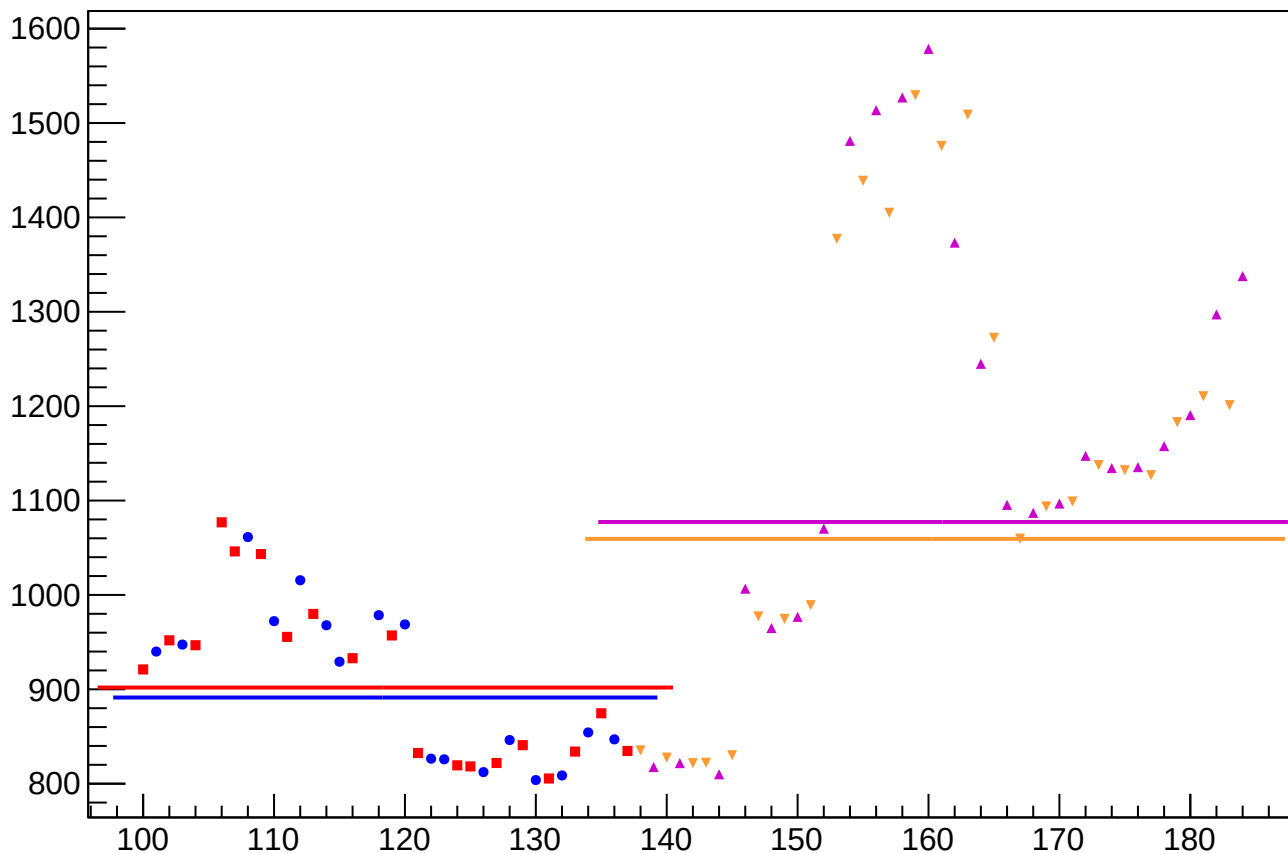
Right: 8.701 ± 0.242 $\chi^2/\text{NDF}: 574.6/35$

In: 2.819 ± 0.210 $\chi^2/\text{NDF}: 2121.8/39$

Out: -0.125 ± 0.204 $\chi^2/\text{NDF}: 830.3/42$

All: 1.303 ± 0.146 $\chi^2/\text{NDF}: 3053.4/82$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.299 ± 0.244 $\chi^2/\text{NDF}: 101327.8/16$

Left Out: 1059.363 ± 0.180 $\chi^2/\text{NDF}: 1371630.9/23$

Right Out: 901.879 ± 0.240 $\chi^2/\text{NDF}: 114242.3/18$

Left In: 1077.284 ± 0.187 $\chi^2/\text{NDF}: 1280349.9/22$

Left: 1067.996 ± 0.130 $\chi^2/\text{NDF}: 2656744.4/46$

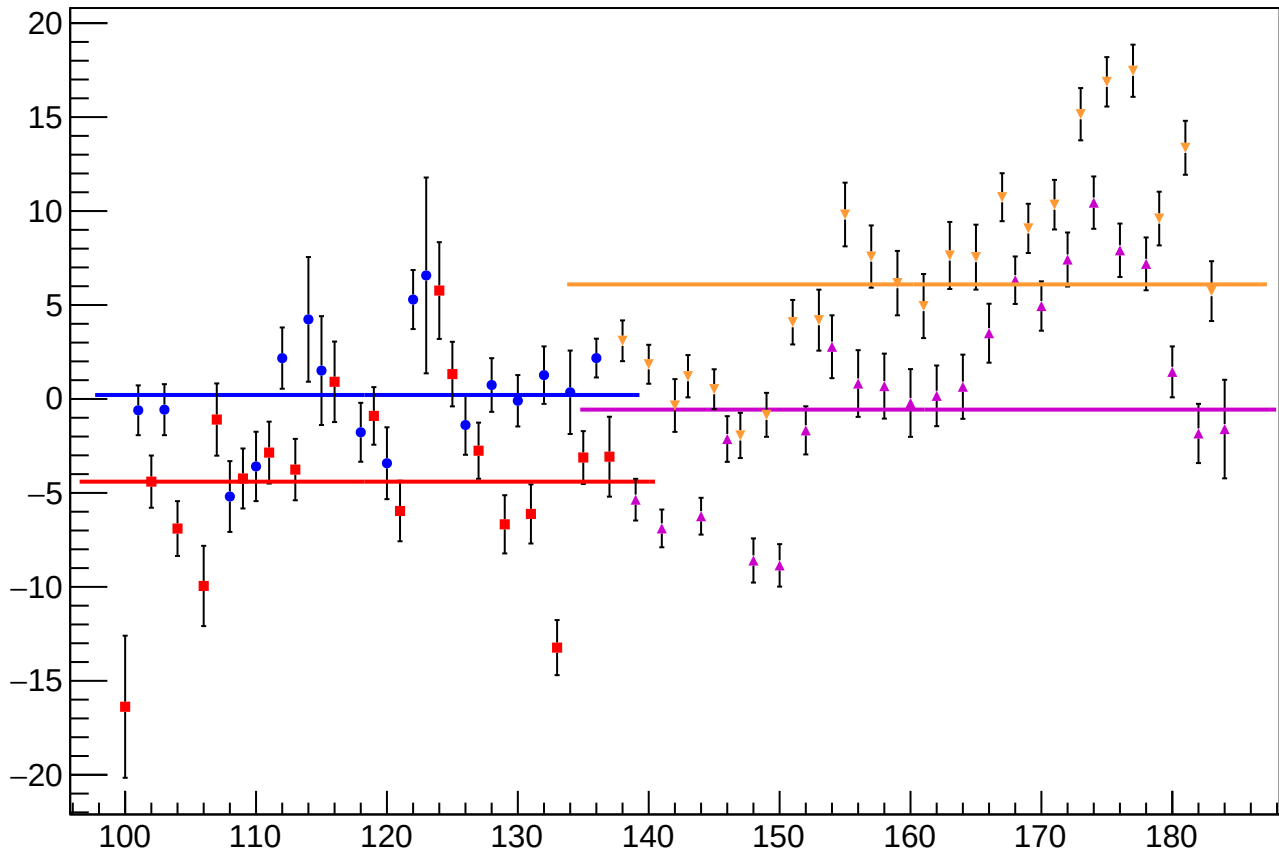
Right: 896.682 ± 0.171 $\chi^2/\text{NDF}: 216526.2/35$

In: 1008.519 ± 0.148 $\chi^2/\text{NDF}: 1747667.3/39$

Out: 1002.525 ± 0.144 $\chi^2/\text{NDF}: 1761500.4/42$

All: 1005.433 ± 0.103 $\chi^2/\text{NDF}: 3510007.5/82$

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.396 $\chi^2/\text{NDF}: 38.8/16$

Left Out: 6.097 ± 0.274 $\chi^2/\text{NDF}: 420.8/23$

Right Out: -4.400 ± 0.387 $\chi^2/\text{NDF}: 104.8/18$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.882 ± 0.197 $\chi^2/\text{NDF}: 1122.3/46$

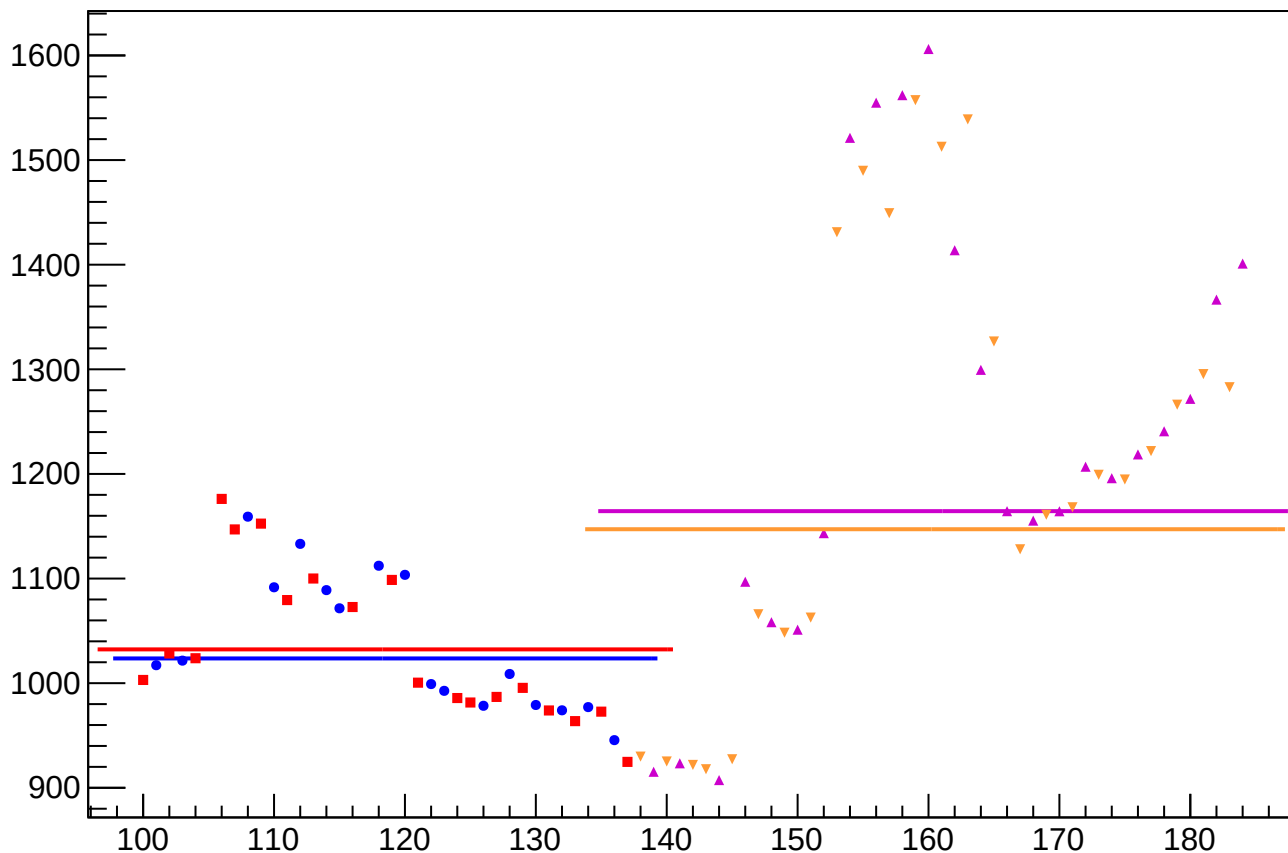
Right: -2.142 ± 0.277 $\chi^2/\text{NDF}: 212.9/35$

In: -0.301 ± 0.231 $\chi^2/\text{NDF}: 458.3/39$

Out: 2.590 ± 0.224 $\chi^2/\text{NDF}: 1014.4/42$

All: 1.188 ± 0.161 $\chi^2/\text{NDF}: 1553.6/82$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.643 $\pm$ 0.280 χ^2 /NDF: 52282.5/16

Left Out: 1147.147 $\pm$ 0.194 χ^2 /NDF: 1022166.0/23

Right Out: 1032.299 $\pm$ 0.274 χ^2 /NDF: 59262.4/18

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF: 944112.0/22

Left: 1155.489 $\pm$ 0.140 χ^2 /NDF: 1970107.4/46

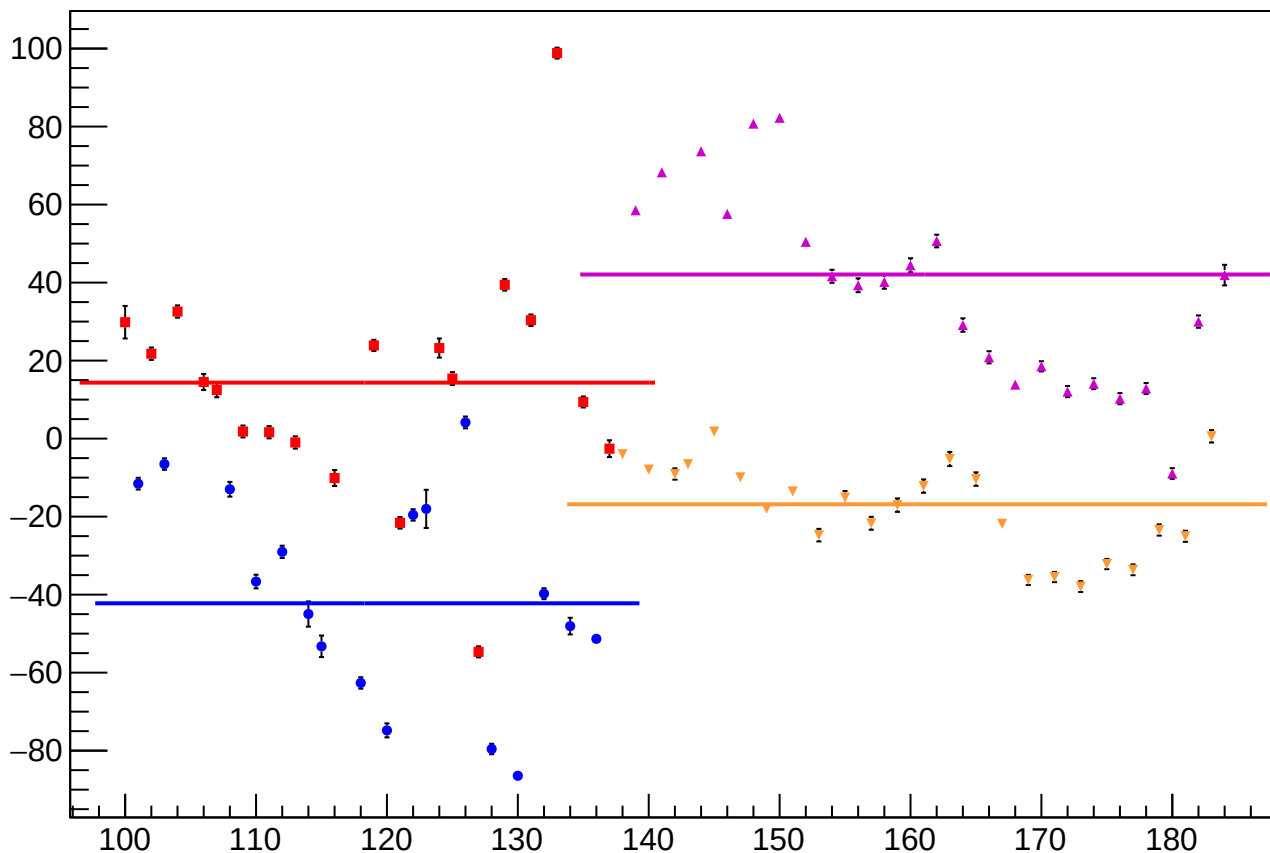
Right: 1028.062 $\pm$ 0.196 χ^2 /NDF: 112033.6/35

In: 1116.535 $\pm$ 0.163 χ^2 /NDF: 1163464.0/39

Out: 1108.779 $\pm$ 0.158 χ^2 /NDF: 1198463.4/42

All: 1112.540 $\pm$ 0.114 χ^2 /NDF: 2363090.7/82

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.222 ± 0.388 χ^2/NDF : 5097.2/16

Left Out: -16.837 ± 0.278 χ^2/NDF : 1868.1/23

Right Out: 14.353 ± 0.379 χ^2/NDF : 7667.7/18

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.470 ± 0.200 χ^2/NDF : 31775.5/46

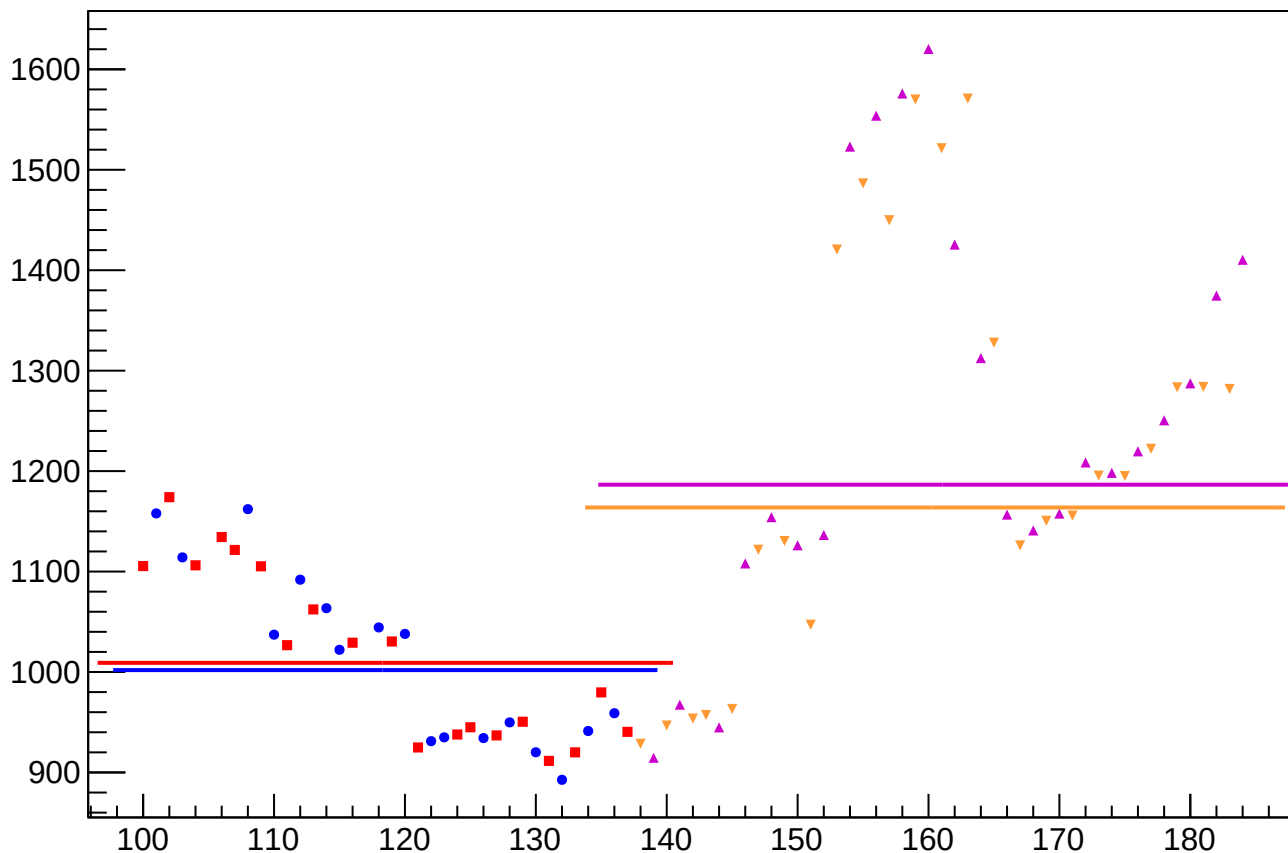
Right: -13.294 ± 0.271 χ^2/NDF : 23642.7/35

In: 11.972 ± 0.232 χ^2/NDF : 43795.1/39

Out: -5.932 ± 0.224 χ^2/NDF : 13935.7/42

All: 2.722 ± 0.161 χ^2/NDF : 60813.2/82

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.897 $\pm$ 0.274 χ^2 /NDF: 95203.3/16

Left Out: 1163.774 $\pm$ 0.197 χ^2 /NDF: 916672.0/23

Right Out: 1009.139 $\pm$ 0.268 χ^2 /NDF: 95040.9/18

Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

Left: 1174.682 $\pm$ 0.142 χ^2 /NDF: 1756499.8/46

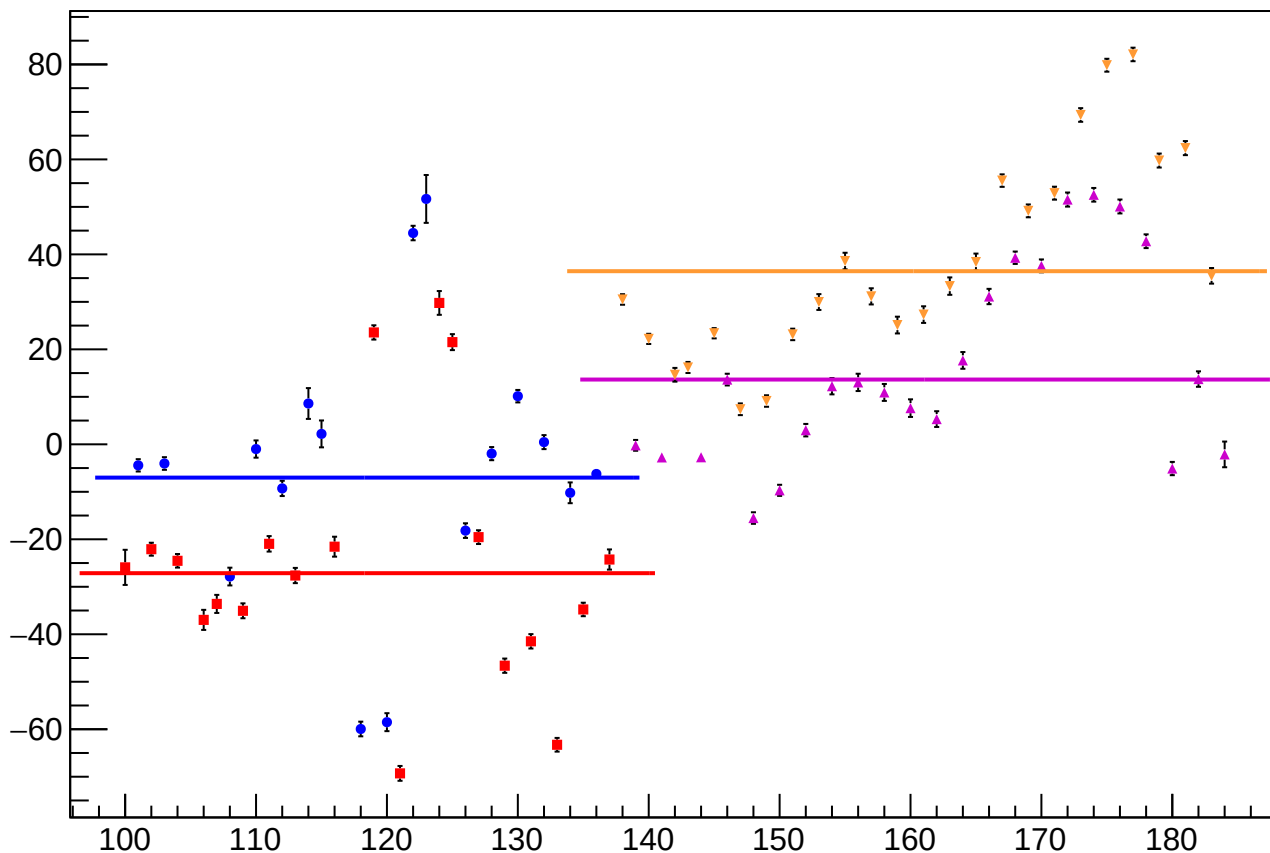
Right: 1005.600 $\pm$ 0.192 χ^2 /NDF: 190600.7/35

In: 1120.559 $\pm$ 0.164 χ^2 /NDF: 1219786.0/39

Out: 1109.711 $\pm$ 0.159 χ^2 /NDF: 1228027.9/42

All: 1114.955 $\pm$ 0.114 χ^2 /NDF: 2450077.1/82

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -7.011 ± 0.389 χ^2/NDF : 3634.7/16

Left Out: 36.459 ± 0.283 χ^2/NDF : 5727.3/23

Right Out: -27.137 ± 0.380 χ^2/NDF : 4257.1/18

Left In: 13.640 ± 0.293 χ^2/NDF : 5178.0/22

Left: 25.451 ± 0.203 χ^2/NDF : 14049.1/46

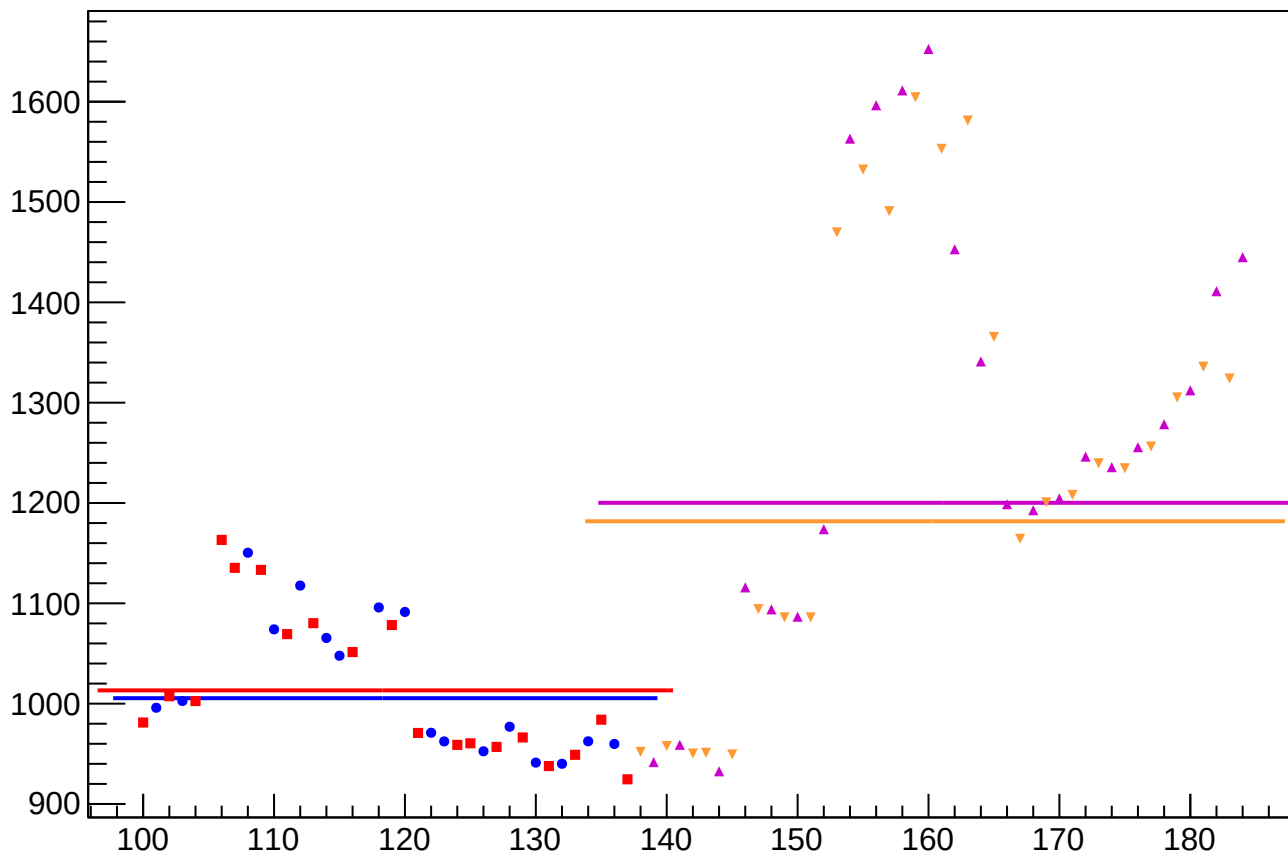
Right: -17.293 ± 0.272 χ^2/NDF : 9261.8/35

In: 6.163 ± 0.234 χ^2/NDF : 10613.6/39

Out: 13.827 ± 0.227 χ^2/NDF : 27998.6/42

All: 10.111 ± 0.163 χ^2/NDF : 39165.5/82

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.453+/-0.275 χ^2/NDF : 54493.5/16

Left Out: 1181.771+/-0.200 χ^2/NDF : 1020518.2/23

Right Out: 1013.228+/-0.269 χ^2/NDF : 63189.9/18

Left In: 1200.198+/-0.207 χ^2/NDF : 938224.7/22

Left: 1190.660+/-0.144 χ^2/NDF : 1962843.3/46

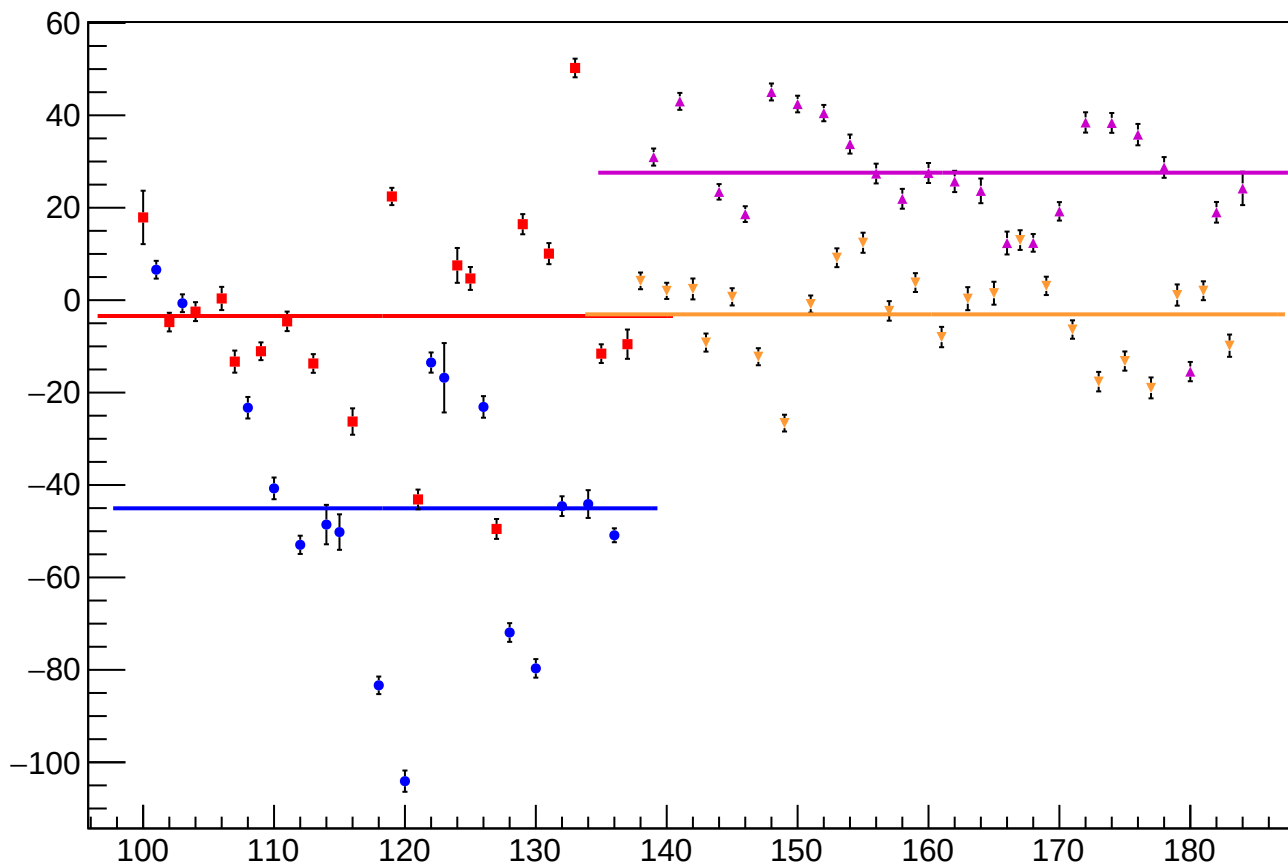
Right: 1009.425+/-0.192 χ^2/NDF : 118092.3/35

In: 1129.689+/-0.165 χ^2/NDF : 1313063.7/39

Out: 1121.791+/-0.160 χ^2/NDF : 1336762.4/42

All: 1125.620+/-0.115 χ^2/NDF : 2651001.4/82

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.043 ± 0.541 χ^2/NDF : 3223.5/16

Left Out: -3.072 ± 0.419 χ^2/NDF : 555.1/23

Right Out: -3.429 ± 0.523 χ^2/NDF : 2001.9/18

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.899 ± 0.300 χ^2/NDF : 4127.2/46

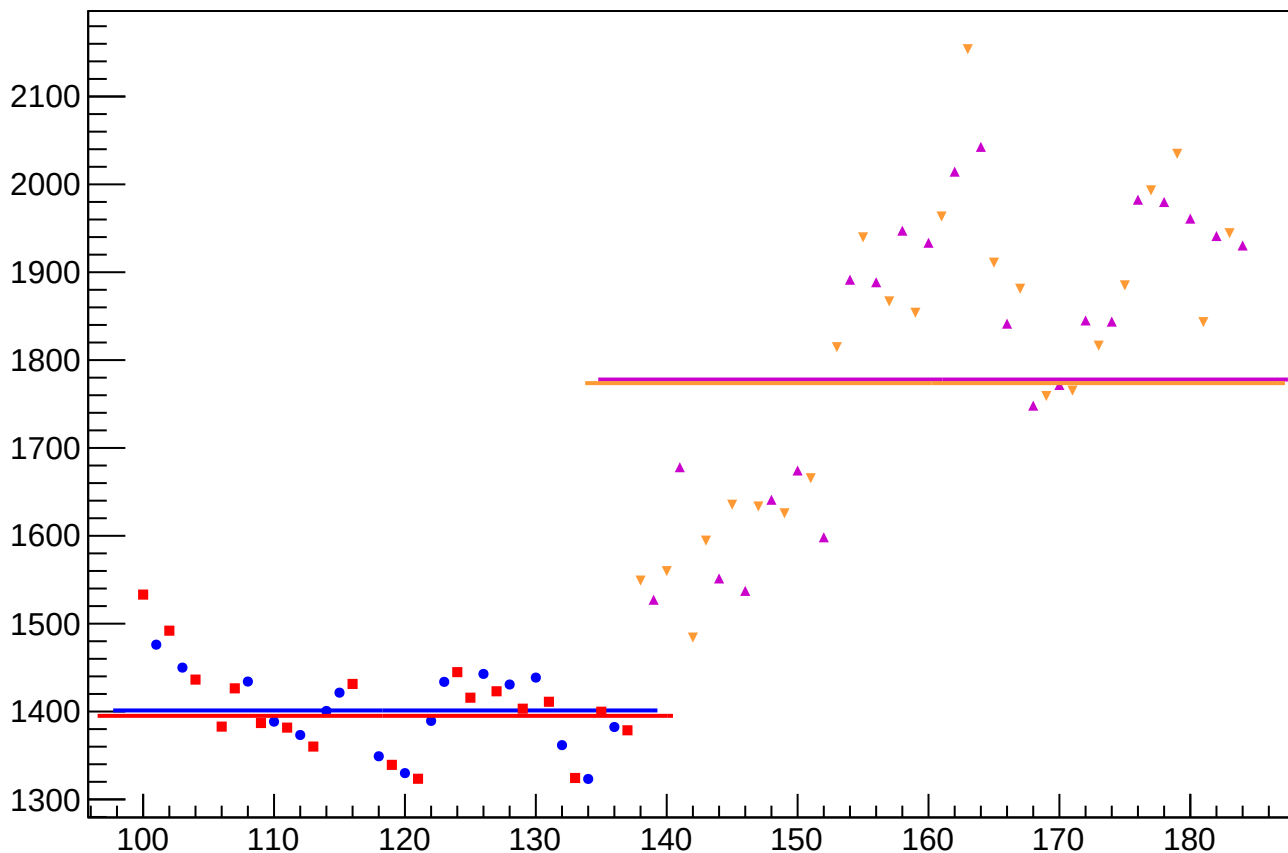
Right: -23.534 ± 0.376 χ^2/NDF : 8287.8/35

In: -0.481 ± 0.336 χ^2/NDF : 15256.8/39

Out: -3.212 ± 0.327 χ^2/NDF : 2557.3/42

All: -1.884 ± 0.234 χ^2/NDF : 17848.0/82

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.235+/-0.382 χ^2/NDF : 12839.4/16

Left Out: 1773.762+/-0.296 χ^2/NDF : 308845.3/23

Right Out: 1395.100+/-0.370 χ^2/NDF : 15523.2/18

Left In: 1777.884+/-0.303 χ^2/NDF : 299514.0/22

Left: 1775.775+/-0.212 χ^2/NDF : 608453.7/46

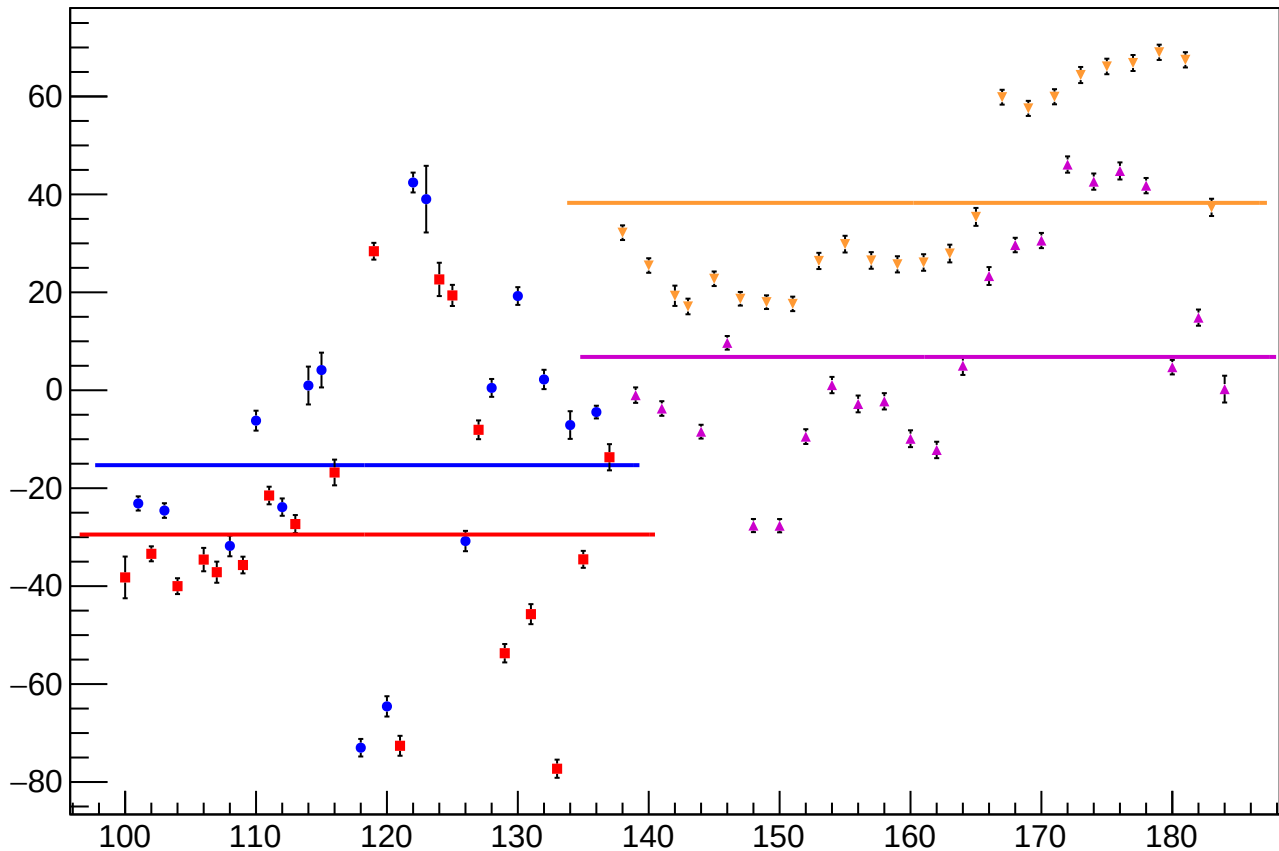
Right: 1398.064+/-0.266 χ^2/NDF : 28495.7/35

In: 1632.338+/-0.238 χ^2/NDF : 908016.3/39

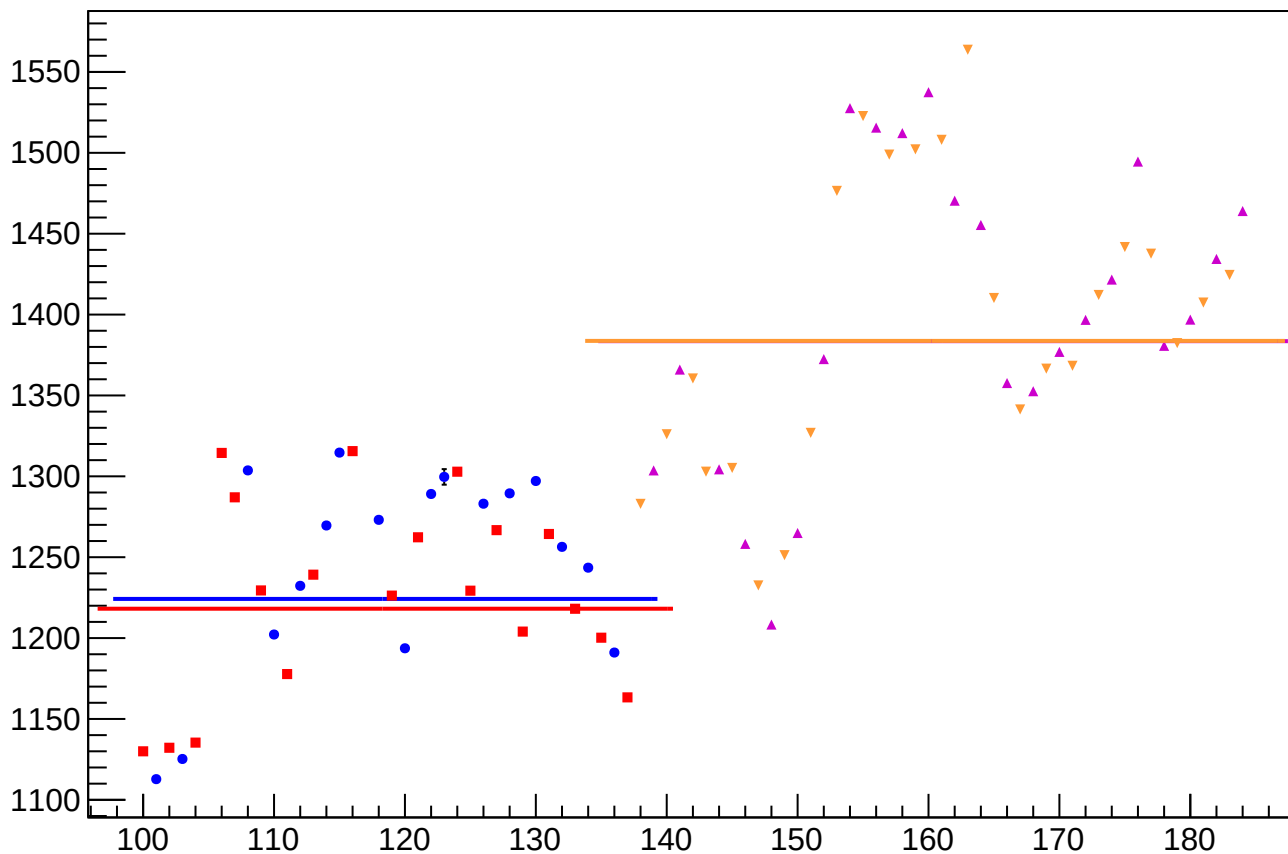
Out: 1625.547+/-0.231 χ^2/NDF : 963211.4/42

All: 1628.850+/-0.166 χ^2/NDF : 1871647.3/82

diff_bpm0i02Y_mean vs Slug, Sign Corrected



diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.212 $\pm$ 0.334 χ^2/NDF : 38774.7/16

Left Out: 1383.729 $\pm$ 0.231 χ^2/NDF :146589.9/23

Right Out: 1218.154 $\pm$ 0.323 χ^2/NDF : 27562.5/18

Left In: 1383.558 $\pm$ 0.235 χ^2/NDF :154696.0/22

Left: 1383.645 $\pm$ 0.165 χ^2/NDF : 301286.2/46

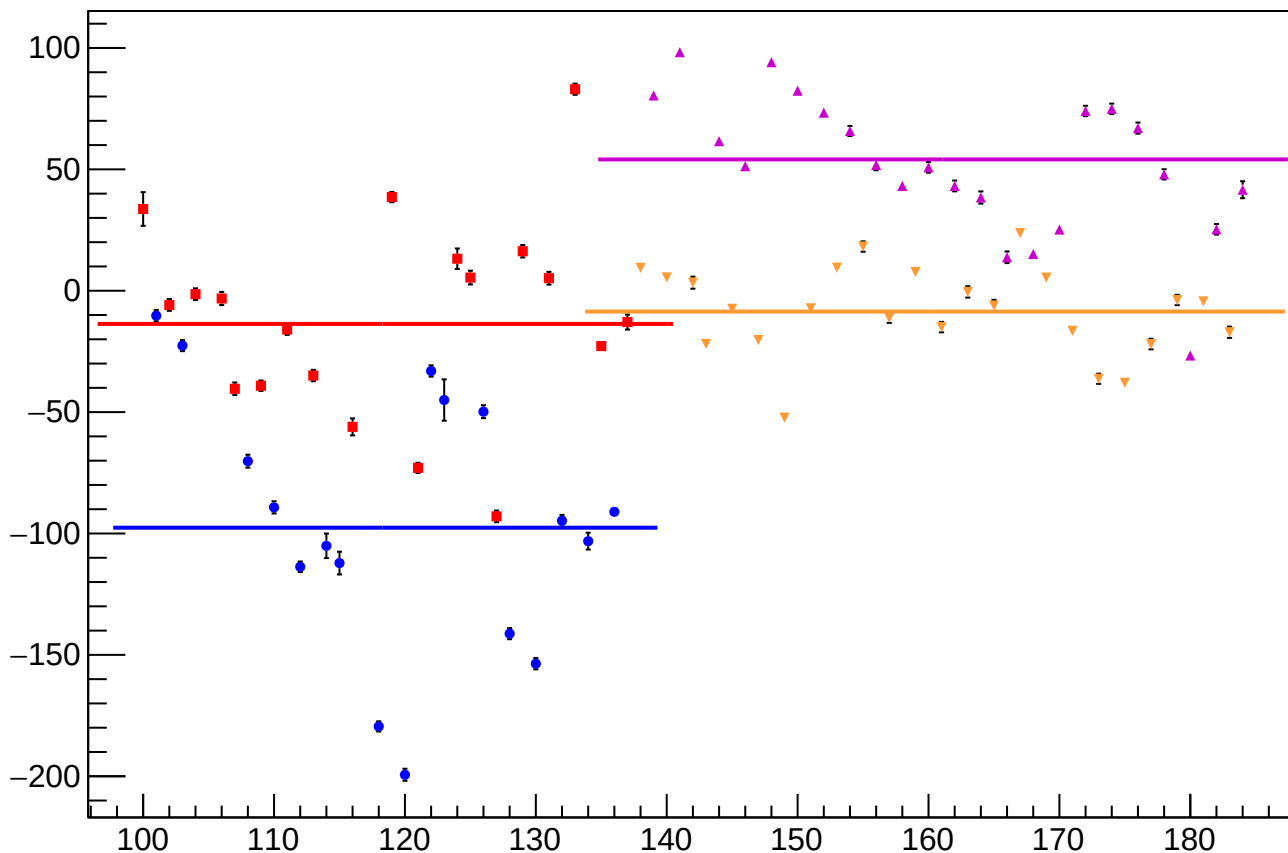
Right: 1221.079 $\pm$ 0.232 χ^2/NDF : 66506.9/35

In: 1330.741 $\pm$ 0.193 χ^2/NDF :345279.9/39

Out: 1327.811 $\pm$ 0.188 χ^2/NDF :348101.1/42

All: 1329.239 $\pm$ 0.134 χ^2/NDF : 693499.6/82

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.610 $\pm$ 0.602 χ^2/NDF : 7919.3/16

Left Out: -8.580 $\pm$ 0.414 χ^2/NDF : 1934.9/23

Right Out: -13.666 $\pm$ 0.580 χ^2/NDF : 5116.2/18

Left In: 54.089 $\pm$ 0.426 χ^2/NDF : 4721.6/22

Left: 21.892 $\pm$ 0.297 χ^2/NDF : 17793.7/46

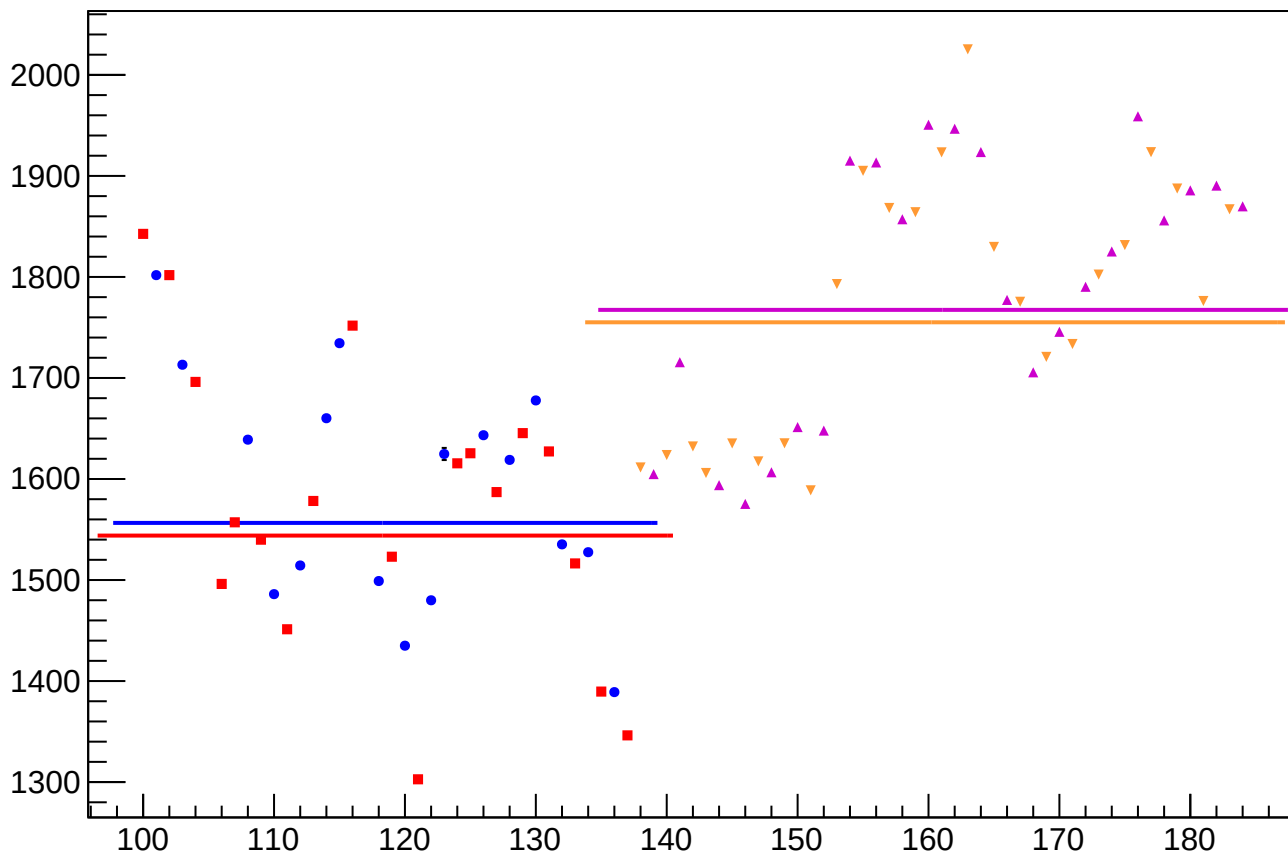
Right: -54.080 $\pm$ 0.418 χ^2/NDF : 23109.2/35

In: 3.560 $\pm$ 0.348 χ^2/NDF : 54950.9/39

Out: -10.296 $\pm$ 0.337 χ^2/NDF : 7102.0/42

All: -3.581 $\pm$ 0.242 χ^2/NDF : 62871.8/82

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.539 $\pm$ 0.426 χ^2 /NDF: 81438.3/16

Left Out: 1755.110 $\pm$ 0.293 χ^2 /NDF:176336.3/23

Right Out: 1543.993 $\pm$ 0.410 χ^2 /NDF: 100599.9/18

Left In: 1767.410 $\pm$ 0.301 χ^2 /NDF:187958.2/22

Left: 1761.091 $\pm$ 0.210 χ^2 /NDF: 365152.6/46

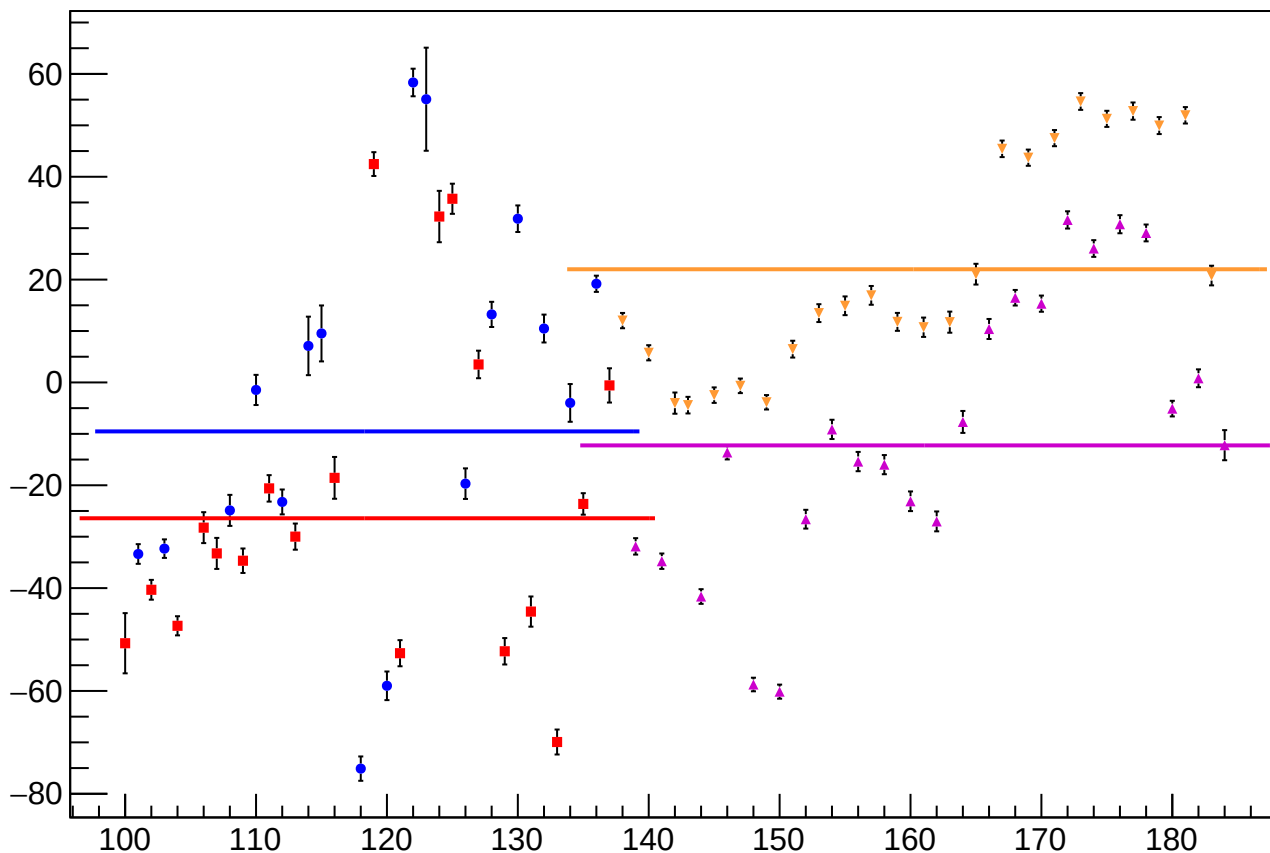
Right: 1550.033 $\pm$ 0.295 χ^2 /NDF: 182488.2/35

In: 1697.171 $\pm$ 0.246 χ^2 /NDF:432906.1/39

Out: 1683.884 $\pm$ 0.238 χ^2 /NDF:452326.3/42

All: 1690.323 $\pm$ 0.171 χ^2 /NDF: 886738.5/82

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.523 ± 0.627 $\chi^2/\text{NDF}: 2908.8/16$

Left Out: 22.011 ± 0.338 $\chi^2/\text{NDF}: 4075.9/23$

Right Out: -26.417 ± 0.604 $\chi^2/\text{NDF}: 2451.3/18$

Left In: -12.246 ± 0.347 $\chi^2/\text{NDF}: 6781.6/22$

Left: 5.324 ± 0.242 $\chi^2/\text{NDF}: 15854.7/46$

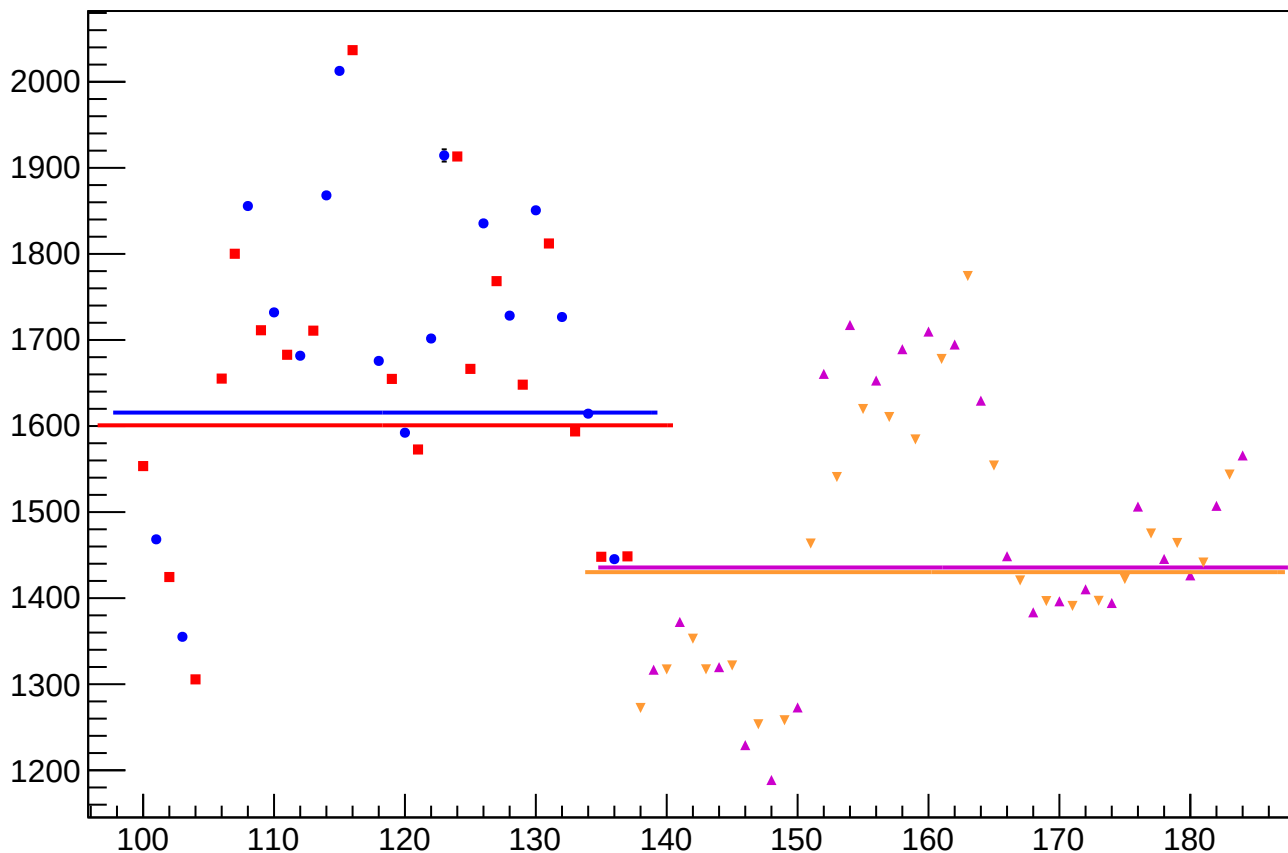
Right: -18.295 ± 0.435 $\chi^2/\text{NDF}: 5736.6/35$

In: -11.608 ± 0.304 $\chi^2/\text{NDF}: 9704.8/39$

Out: 10.441 ± 0.295 $\chi^2/\text{NDF}: 11425.3/42$

All: -0.266 ± 0.212 $\chi^2/\text{NDF}: 23841.8/82$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1615.627+/-0.444 χ^2/NDF : 149190.0/16

Left Out: 1430.222+/-0.239 χ^2/NDF : 295095.5/23

Right Out: 1600.836+/-0.427 χ^2/NDF : 153528.6/18

Left In: 1435.645+/-0.245 χ^2/NDF : 420835.0/22

Left: 1432.864+/-0.171 χ^2/NDF : 716181.1/46

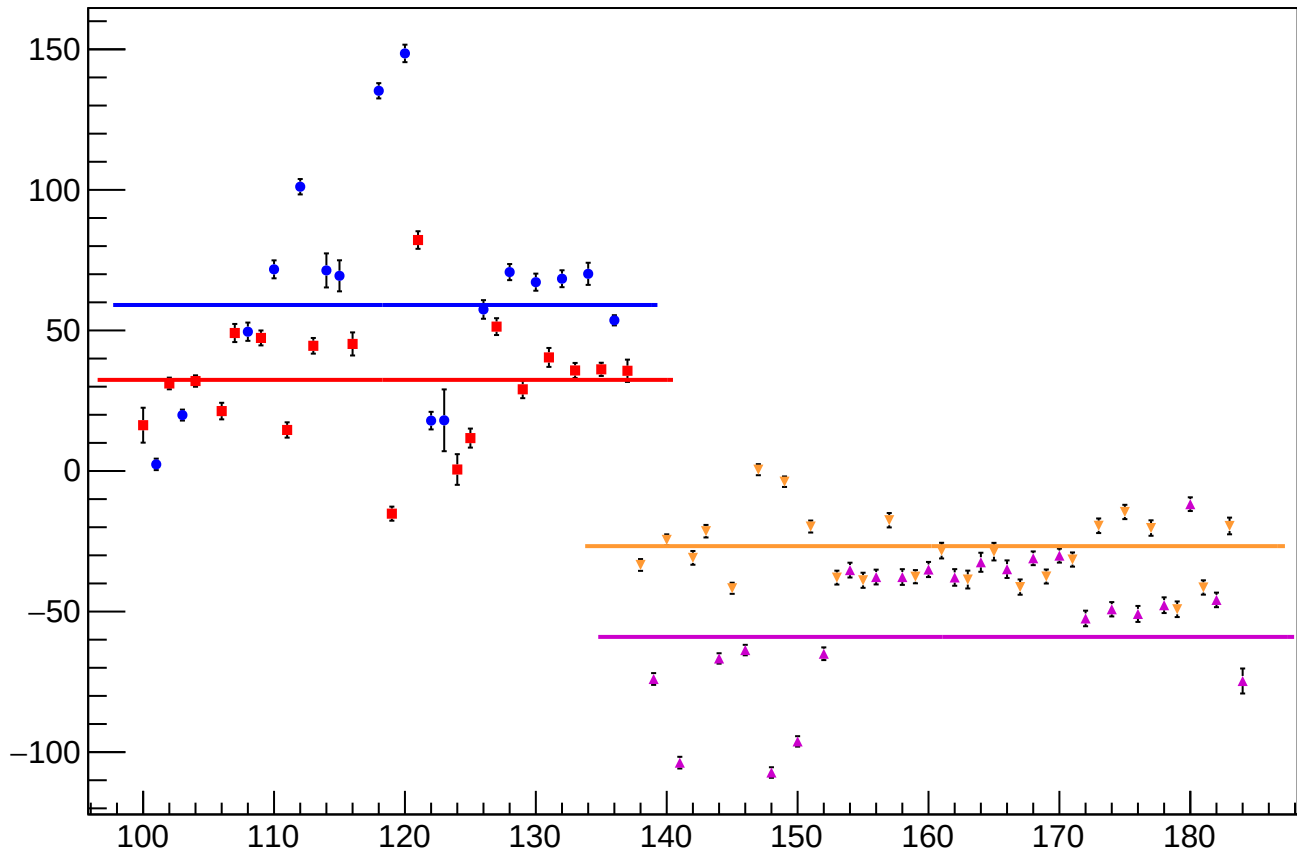
Right: 1607.947+/-0.308 χ^2/NDF : 303295.8/35

In: 1477.817+/-0.215 χ^2/NDF : 696059.3/39

Out: 1470.981+/-0.209 χ^2/NDF : 570209.6/42

All: 1474.301+/-0.150 χ^2/NDF : 1266790.1/82

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.057 ± 0.700 χ^2/NDF : 3293.2/16

Left Out: -26.724 ± 0.493 χ^2/NDF : 710.7/23

Right Out: 32.417 ± 0.667 χ^2/NDF : 888.1/18

Left In: -59.014 ± 0.506 χ^2/NDF : 2783.8/22

Left: -42.423 ± 0.353 χ^2/NDF : 5583.4/46

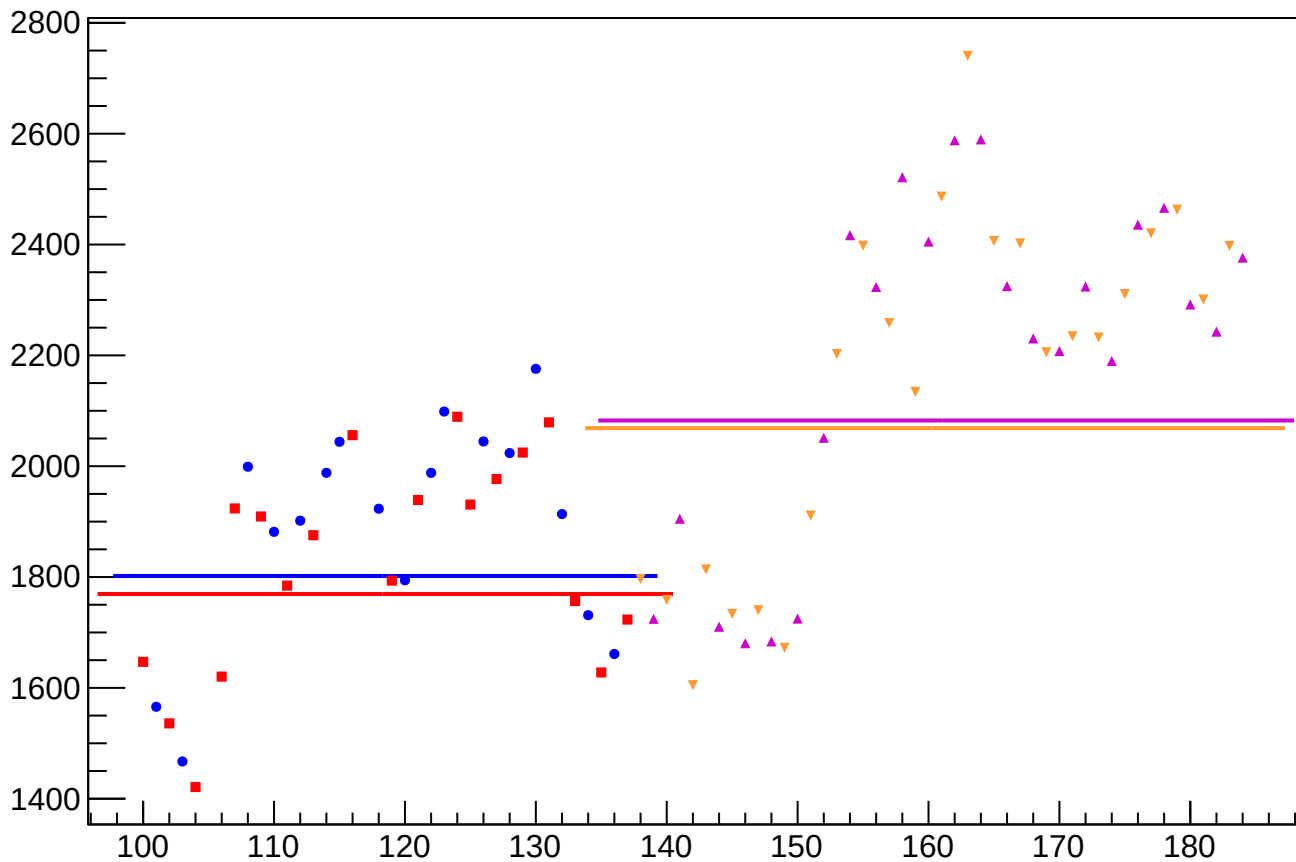
Right: 45.094 ± 0.483 χ^2/NDF : 4939.4/35

In: -18.483 ± 0.410 χ^2/NDF : 24736.7/39

Out: -5.869 ± 0.396 χ^2/NDF : 6681.8/42

All: -11.956 ± 0.285 χ^2/NDF : 31907.3/82

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1801.920+/-0.495 χ^2/NDF : 183555.8/16

Left Out: 2068.638+/-0.348 χ^2/NDF : 785777.1/23

Right Out: 1769.354+/-0.472 χ^2/NDF : 177813.0/18

Left In: 2082.497+/-0.358 χ^2/NDF : 785304.0/22

Left: 2075.376+/-0.250 χ^2/NDF : 1571850.7/46

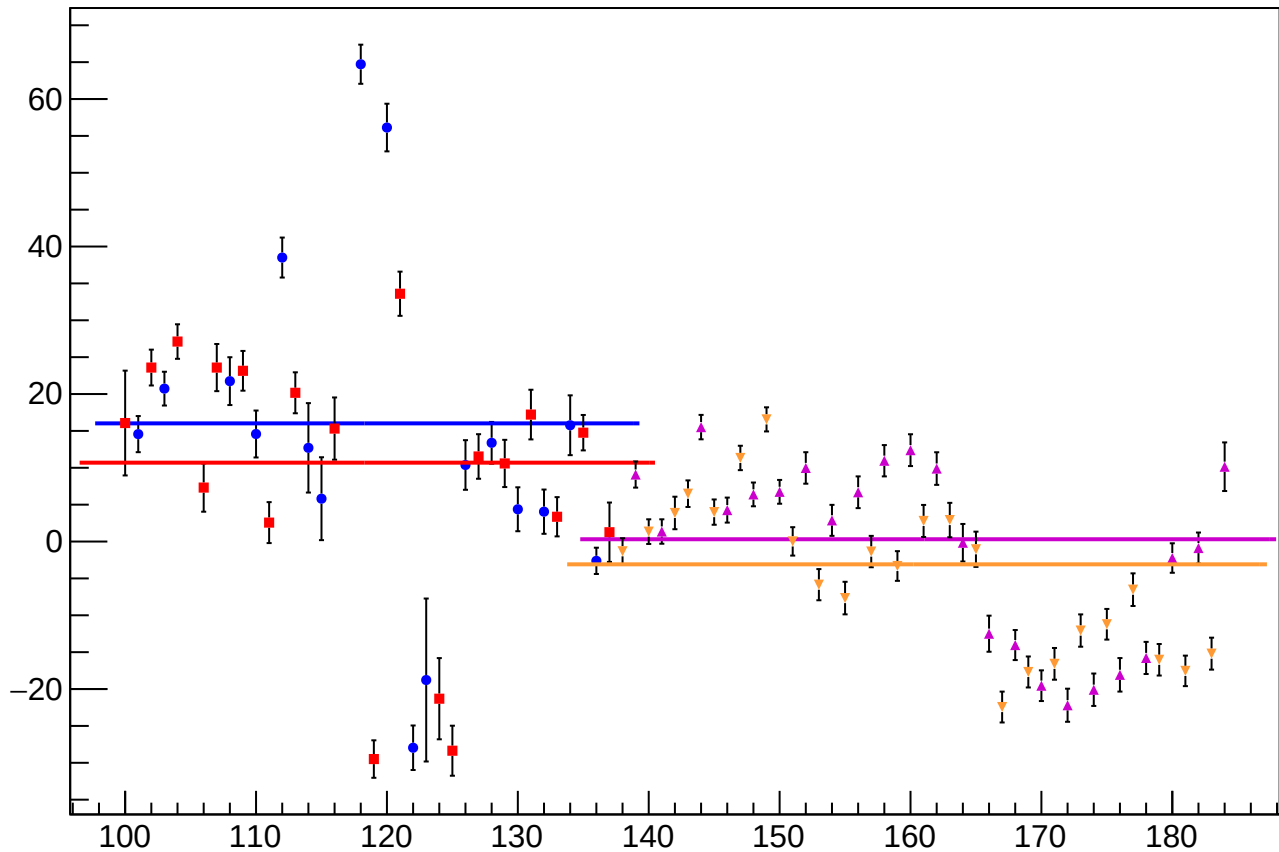
Right: 1784.851+/-0.342 χ^2/NDF : 363634.8/35

In: 1986.181+/-0.290 χ^2/NDF : 1179603.3/39

Out: 1963.099+/-0.280 χ^2/NDF : 1223921.4/42

All: 1974.238+/-0.202 χ^2/NDF : 2406798.2/82

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 16.023 ± 0.723 $\chi^2/\text{NDF}: 938.1/16$

Left Out: -3.090 ± 0.409 $\chi^2/\text{NDF}: 632.1/23$

Right Out: 10.695 ± 0.694 $\chi^2/\text{NDF}: 632.7/18$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.440 ± 0.293 $\chi^2/\text{NDF}: 1402.2/46$

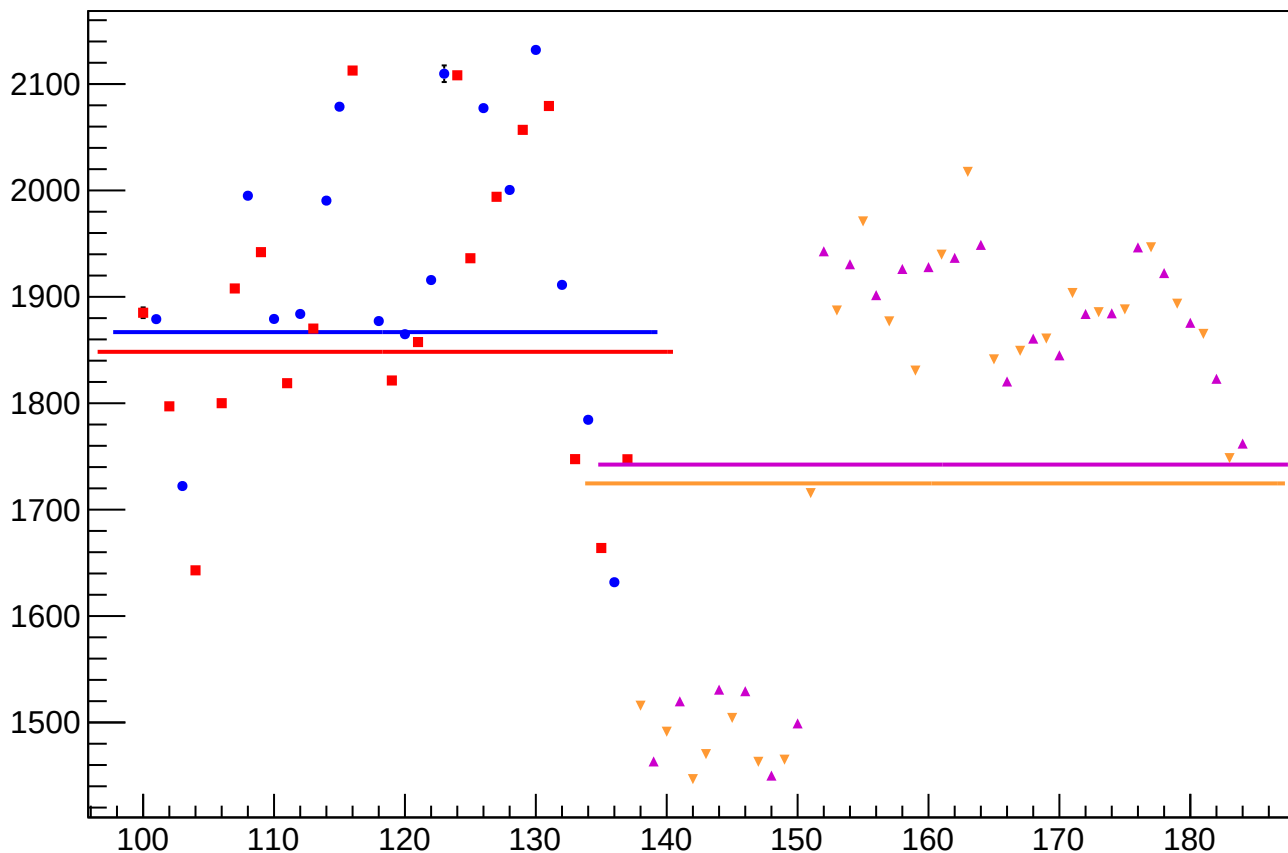
Right: 13.253 ± 0.501 $\chi^2/\text{NDF}: 1599.1/35$

In: 4.294 ± 0.364 $\chi^2/\text{NDF}: 2027.4/39$

Out: 0.456 ± 0.352 $\chi^2/\text{NDF}: 1557.5/42$

All: 2.312 ± 0.253 $\chi^2/\text{NDF}: 3642.4/82$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1866.855 +/- 0.511 χ^2/NDF : 80657.5/16

Left Out: 1724.657 +/- 0.289 χ^2/NDF : 474996.9/23

Right Out: 1848.333 +/- 0.491 χ^2/NDF : 72586.9/18

Left In: 1742.354 +/- 0.298 χ^2/NDF : 435841.5/22

Left: 1733.240 +/- 0.207 χ^2/NDF : 912657.6/46

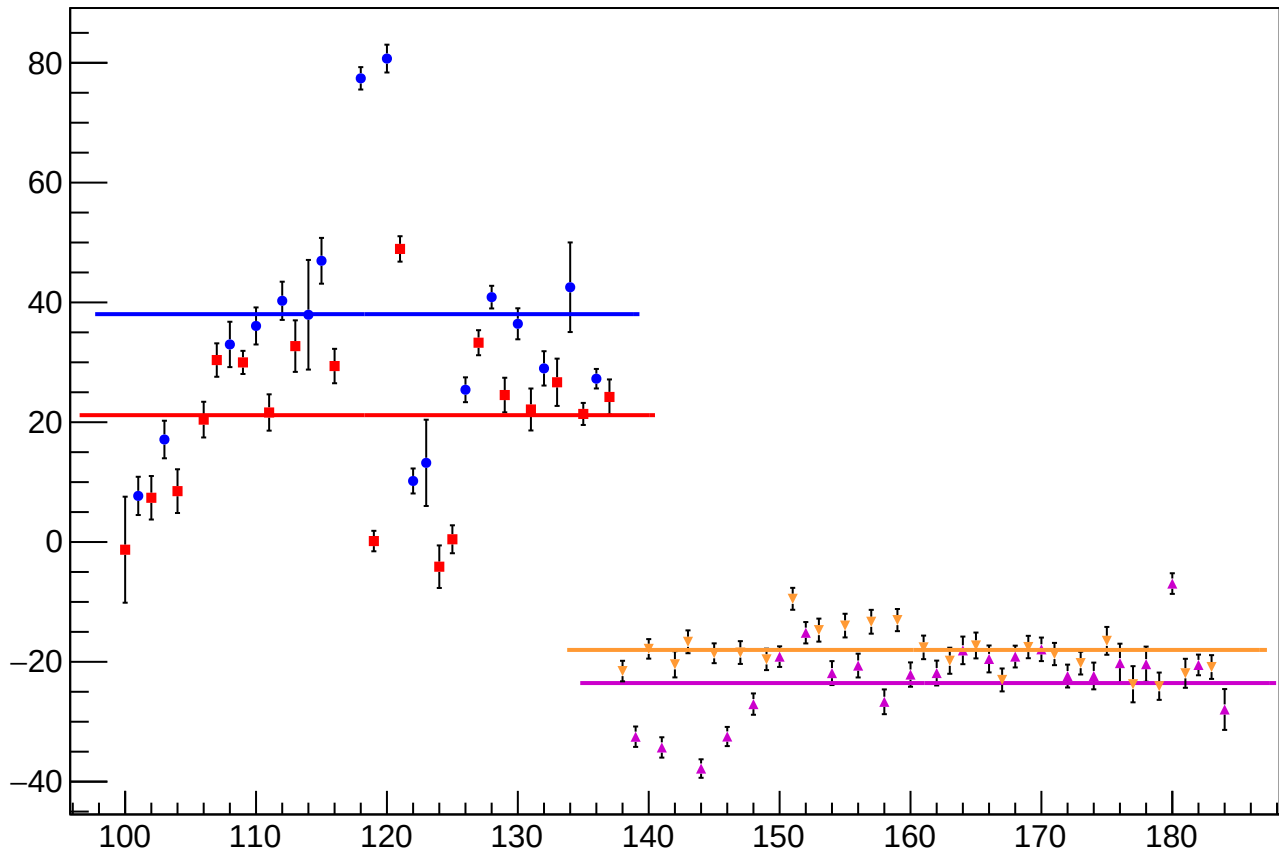
Right: 1857.225 +/- 0.354 χ^2/NDF : 153927.5/35

In: 1773.908 +/- 0.257 χ^2/NDF : 560812.2/39

Out: 1756.469 +/- 0.249 χ^2/NDF : 594704.6/42

All: 1764.905 +/- 0.179 χ^2/NDF : 1157888.8/82

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 38.041 ± 0.639 $\chi^2/\text{NDF}: 1207.6/16$

Left Out: -18.014 ± 0.400 $\chi^2/\text{NDF}: 73.7/23$

Right Out: 21.178 ± 0.610 $\chi^2/\text{NDF}: 570.0/18$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.741 ± 0.285 $\chi^2/\text{NDF}: 514.7/46$

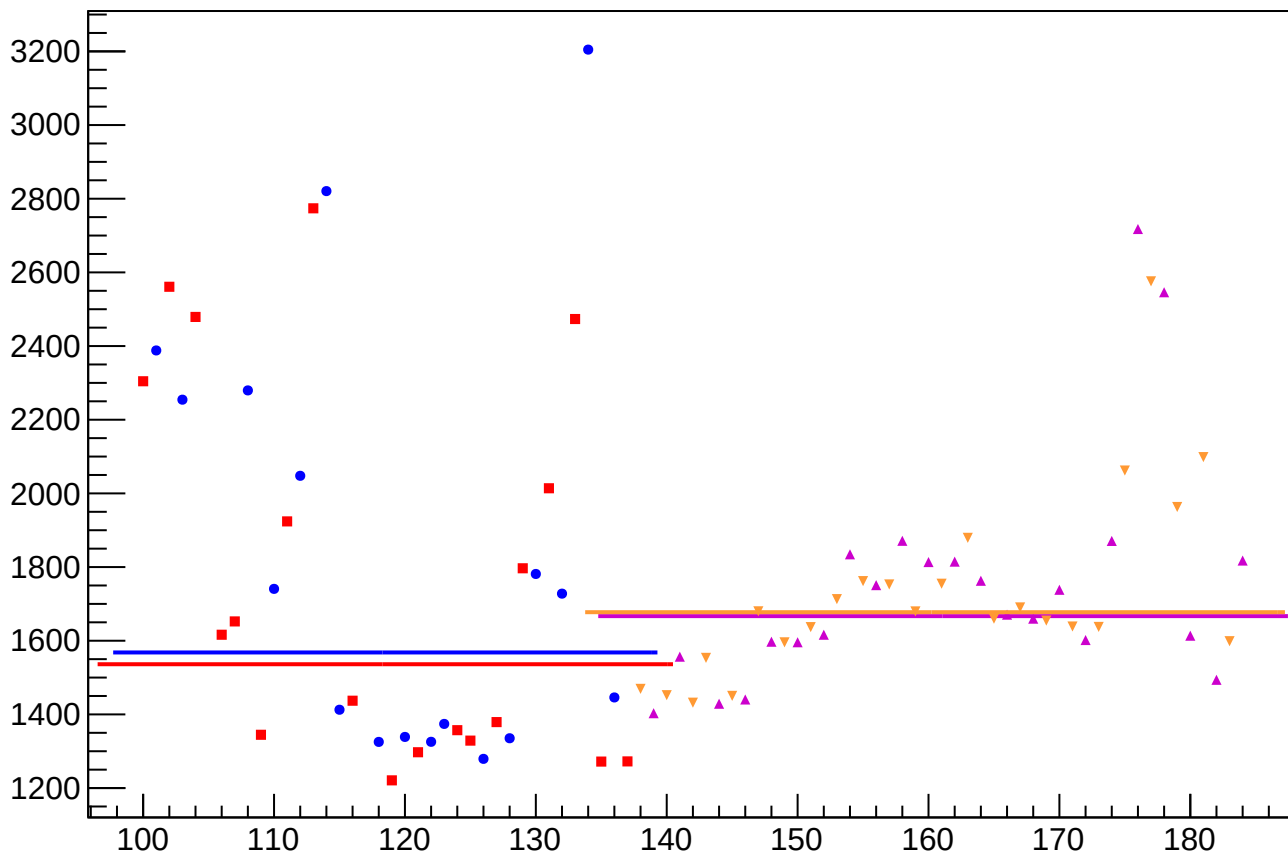
Right: 29.215 ± 0.441 $\chi^2/\text{NDF}: 2142.4/35$

In: -5.845 ± 0.342 $\chi^2/\text{NDF}: 8178.5/39$

Out: -6.216 ± 0.334 $\chi^2/\text{NDF}: 3533.2/42$

All: -6.035 ± 0.239 $\chi^2/\text{NDF}: 11712.3/82$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1568.172 $\pm$ 0.452 χ^2 /NDF: 668072.7/16

Left Out: 1677.484 $\pm$ 0.283 χ^2 /NDF: 501222.1/23

Right Out: 1536.208 $\pm$ 0.431 χ^2 /NDF: 882312.9/18

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1672.226 $\pm$ 0.201 χ^2 /NDF: 1152913.8/46

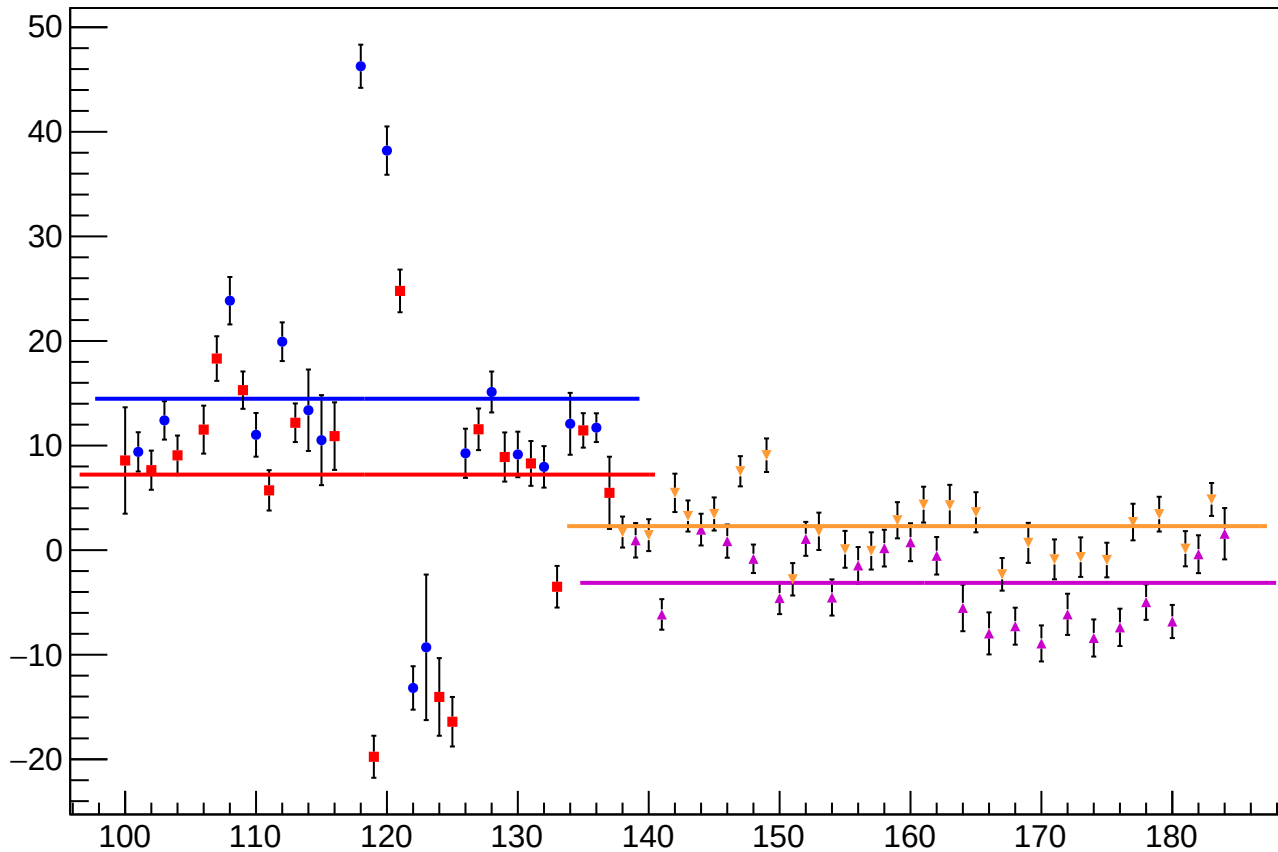
Right: 1551.443 $\pm$ 0.312 χ^2 /NDF: 1553006.8/35

In: 1638.468 $\pm$ 0.242 χ^2 /NDF: 1353054.2/39

Out: 1634.956 $\pm$ 0.236 χ^2 /NDF: 1458626.7/42

All: 1636.670 $\pm$ 0.169 χ^2 /NDF: 2811788.6/82

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.477 ± 0.524 $\chi^2/\text{NDF}: 596.5/16$

Left Out: 2.296 ± 0.343 $\chi^2/\text{NDF}: 75.9/23$

Right Out: 7.223 ± 0.495 $\chi^2/\text{NDF}: 489.0/18$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.300 ± 0.247 $\chi^2/\text{NDF}: 299.3/46$

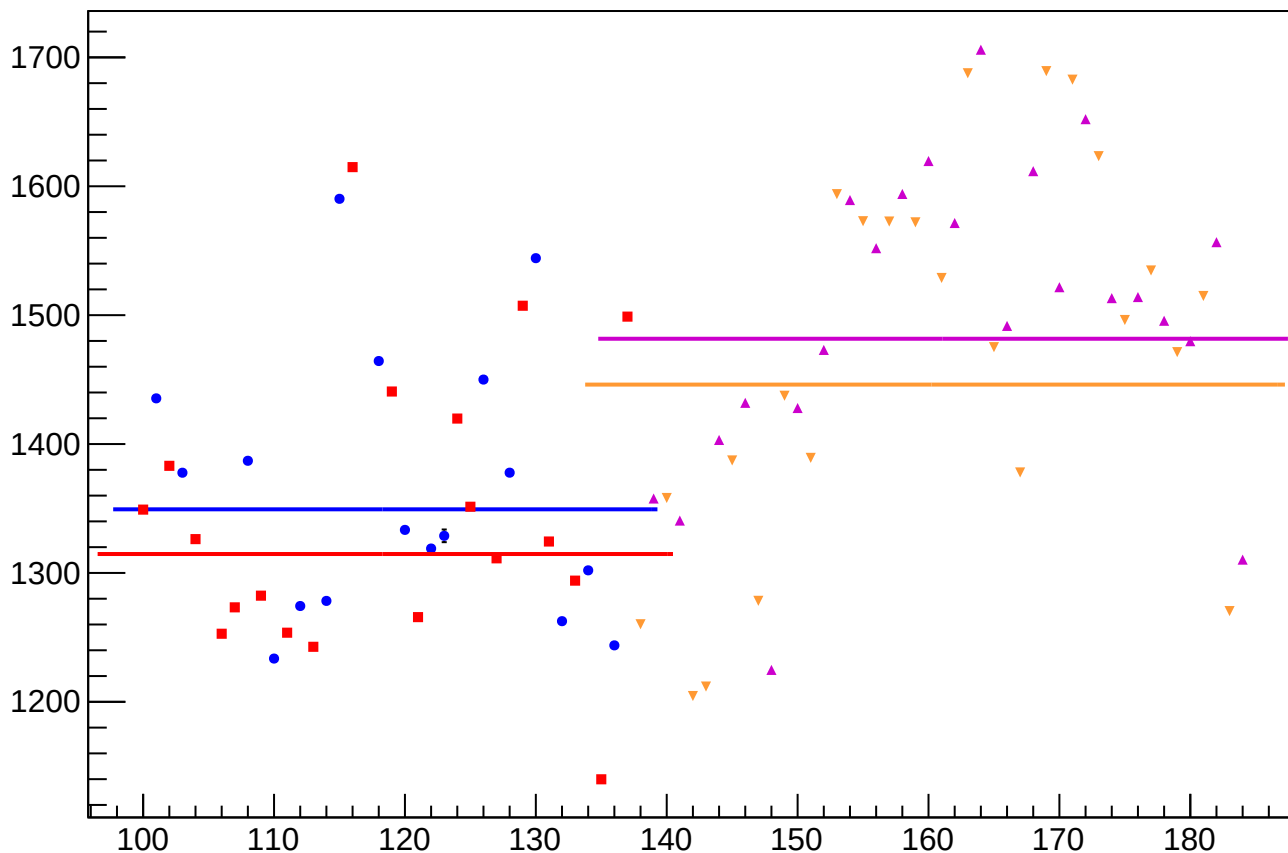
Right: 10.645 ± 0.360 $\chi^2/\text{NDF}: 1186.7/35$

In: 2.465 ± 0.295 $\chi^2/\text{NDF}: 1469.9/39$

Out: 3.890 ± 0.282 $\chi^2/\text{NDF}: 631.9/42$

All: 3.212 ± 0.204 $\chi^2/\text{NDF}: 2114.0/82$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.357 $\pm$ 0.371 χ^2/NDF : 64580.7/16

Left Out: 1446.133 $\pm$ 0.242 χ^2/NDF : 355421.9/23

Right Out: 1314.682 $\pm$ 0.350 χ^2/NDF : 80983.6/18

Left In: 1481.695 $\pm$ 0.253 χ^2/NDF : 208470.6/22

Left: 1463.149 $\pm$ 0.175 χ^2/NDF : 574205.4/46

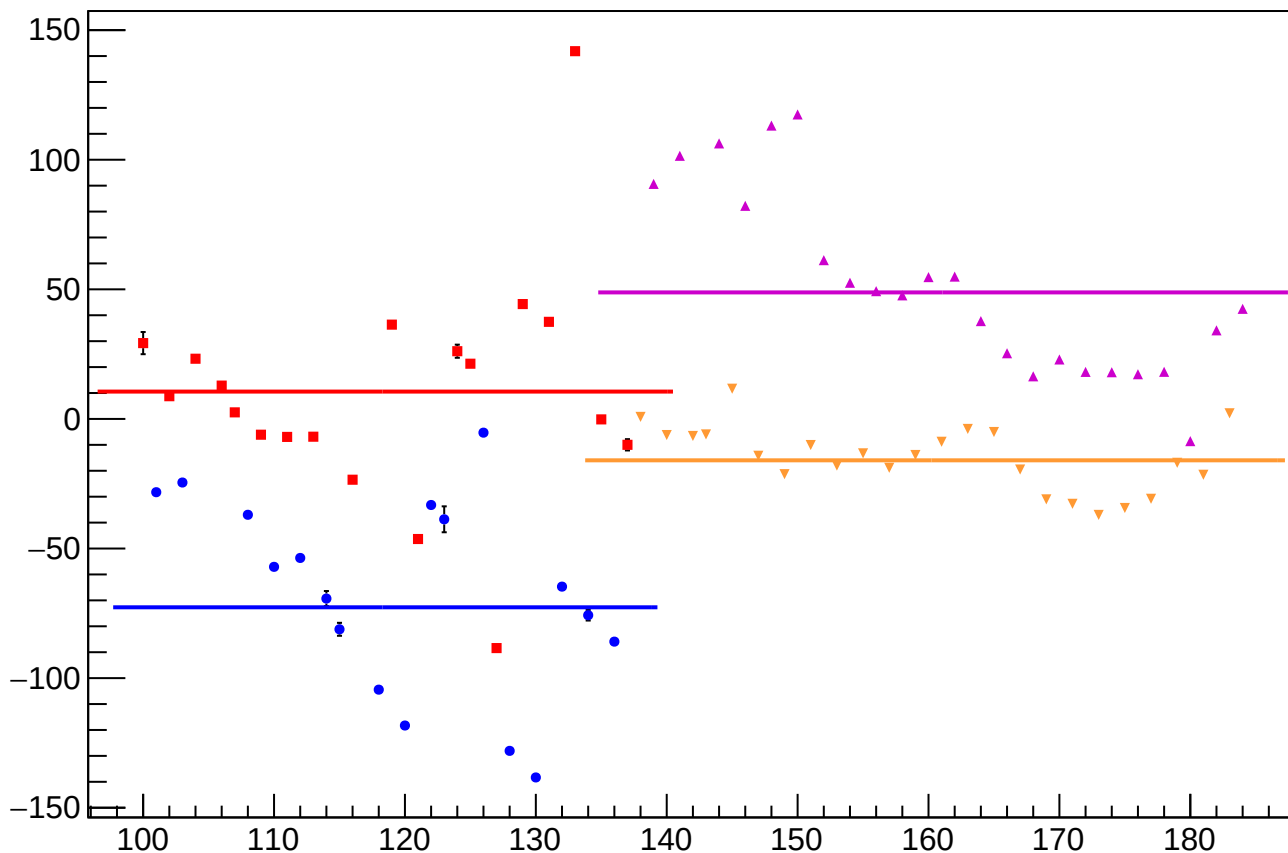
Right: 1331.041 $\pm$ 0.255 χ^2/NDF : 150189.5/35

In: 1439.647 $\pm$ 0.209 χ^2/NDF : 360062.3/39

Out: 1403.595 $\pm$ 0.199 χ^2/NDF : 531703.9/42

All: 1420.768 $\pm$ 0.144 χ^2/NDF : 907365.6/82

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.674 +/- 0.363 χ^2/NDF : 11603.9/16

Left Out: -15.969 +/- 0.214 χ^2/NDF : 3408.9/23

Right Out: 10.552 +/- 0.353 χ^2/NDF : 18145.5/18

Left In: 48.812 +/- 0.220 χ^2/NDF : 25260.8/22

Left: 15.477 +/- 0.153 χ^2/NDF : 73339.8/46

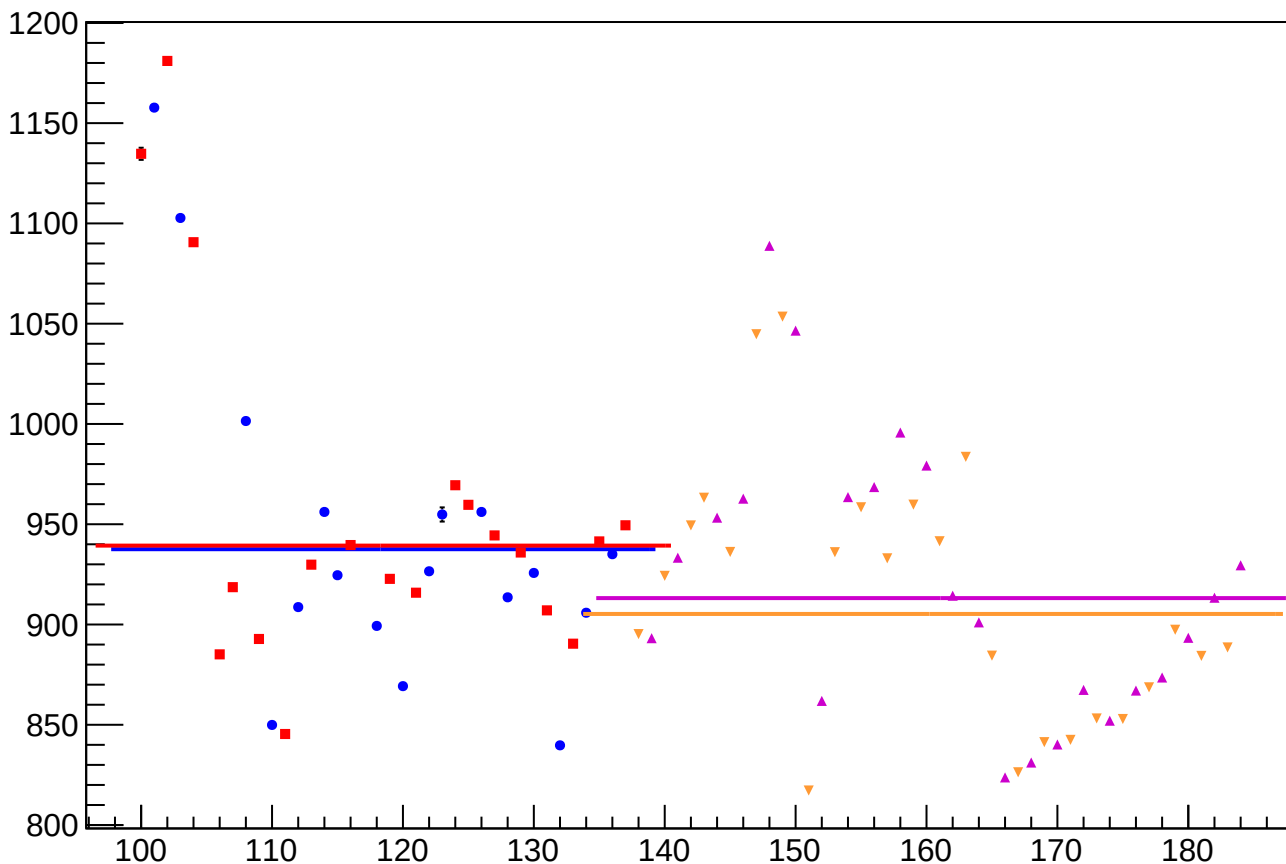
Right: -29.893 +/- 0.253 χ^2/NDF : 56765.3/35

In: 16.208 +/- 0.188 χ^2/NDF : 118797.1/39

Out: -8.863 +/- 0.183 χ^2/NDF : 25687.1/42

All: 3.310 +/- 0.131 χ^2/NDF : 153626.3/82

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.550 $\pm$ 0.257 χ^2 /NDF: 98231.3/16

Left Out: 905.264 $\pm$ 0.151 χ^2 /NDF: 161397.4/23

Right Out: 939.341 $\pm$ 0.250 χ^2 /NDF: 90084.9/18

Left In: 913.165 $\pm$ 0.155 χ^2 /NDF: 174438.8/22

Left: 909.099 $\pm$ 0.108 χ^2 /NDF: 337165.1/46

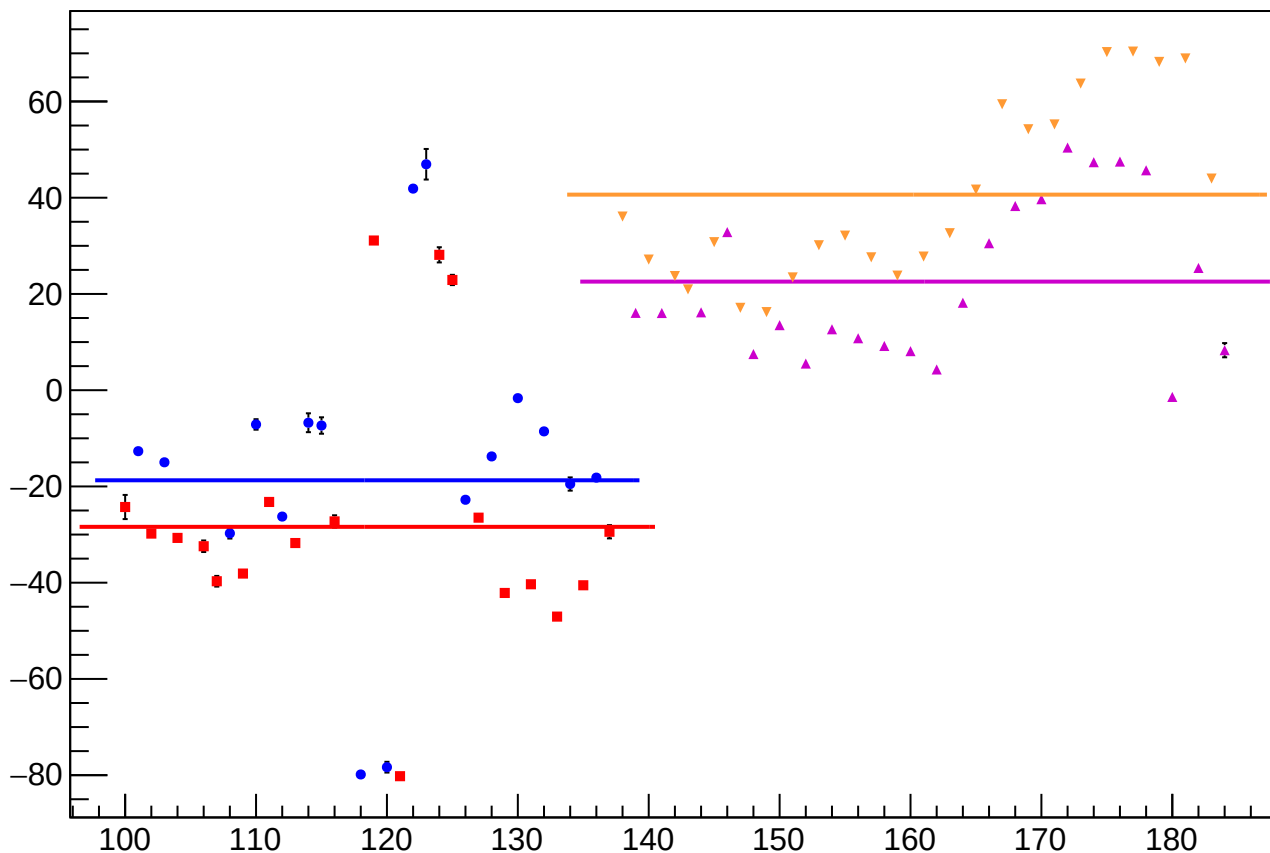
Right: 938.471 $\pm$ 0.179 χ^2 /NDF: 188341.3/35

In: 919.709 $\pm$ 0.133 χ^2 /NDF: 279272.0/39

Out: 914.395 $\pm$ 0.129 χ^2 /NDF: 265127.9/42

All: 916.975 $\pm$ 0.093 χ^2 /NDF: 545221.5/82

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.723 ± 0.243 $\chi^2/\text{NDF}: 12999.6/16$

Left Out: 40.640 ± 0.169 $\chi^2/\text{NDF}: 12004.7/23$

Right Out: -28.395 ± 0.236 $\chi^2/\text{NDF}: 12424.6/18$

Left In: 22.565 ± 0.175 $\chi^2/\text{NDF}: 8167.7/22$

Left: 31.906 ± 0.122 $\chi^2/\text{NDF}: 25667.5/46$

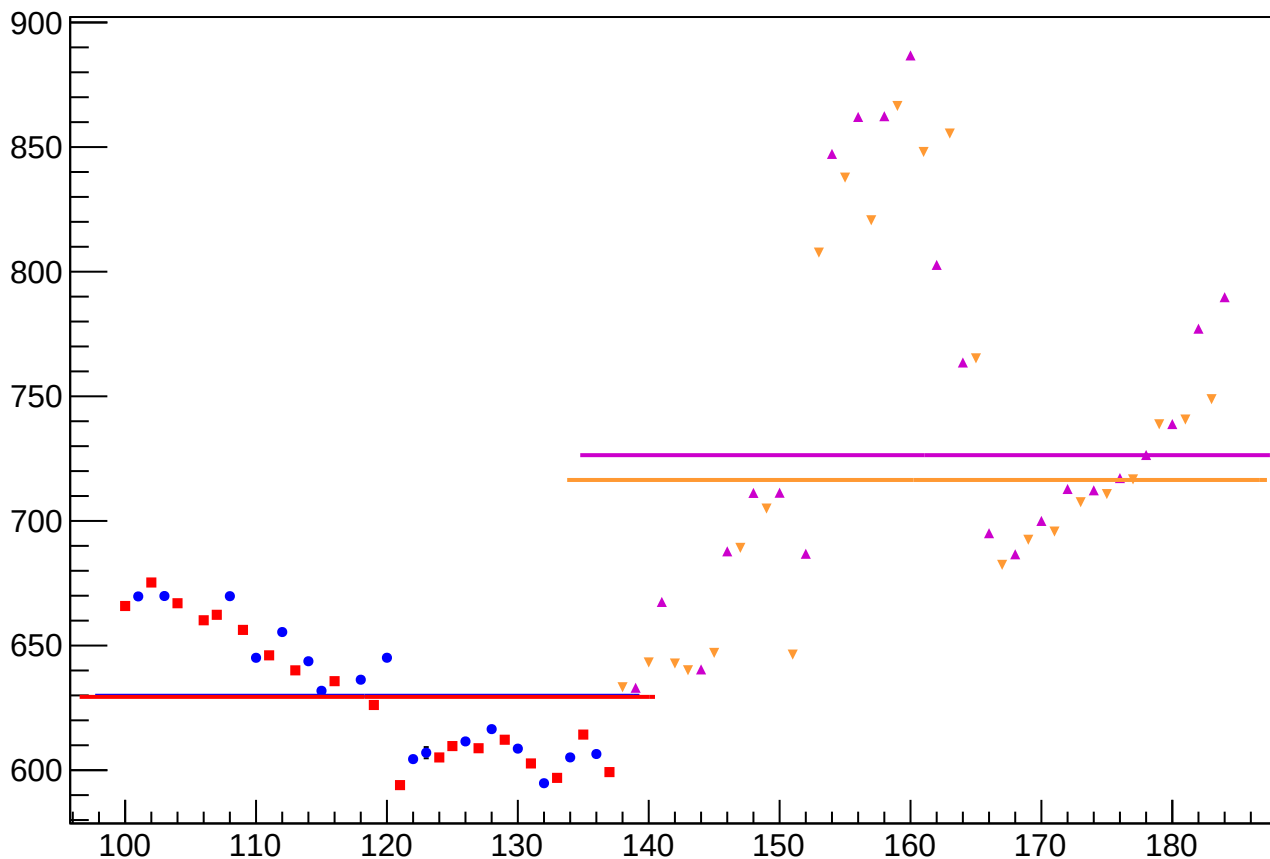
Right: -23.705 ± 0.169 $\chi^2/\text{NDF}: 26239.5/35$

In: 8.443 ± 0.142 $\chi^2/\text{NDF}: 40145.7/39$

Out: 17.131 ± 0.138 $\chi^2/\text{NDF}: 80919.4/42$

All: 12.928 ± 0.099 $\chi^2/\text{NDF}: 122992.9/82$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.857 ± 0.172 χ^2/NDF : 23252.7/16

Left Out: 716.439 ± 0.120 χ^2/NDF : 338681.5/23

Right Out: 629.413 ± 0.167 χ^2/NDF : 25484.3/18

Left In: 726.390 ± 0.124 χ^2/NDF : 289788.8/22

Left: 721.247 ± 0.086 χ^2/NDF : 631801.3/46

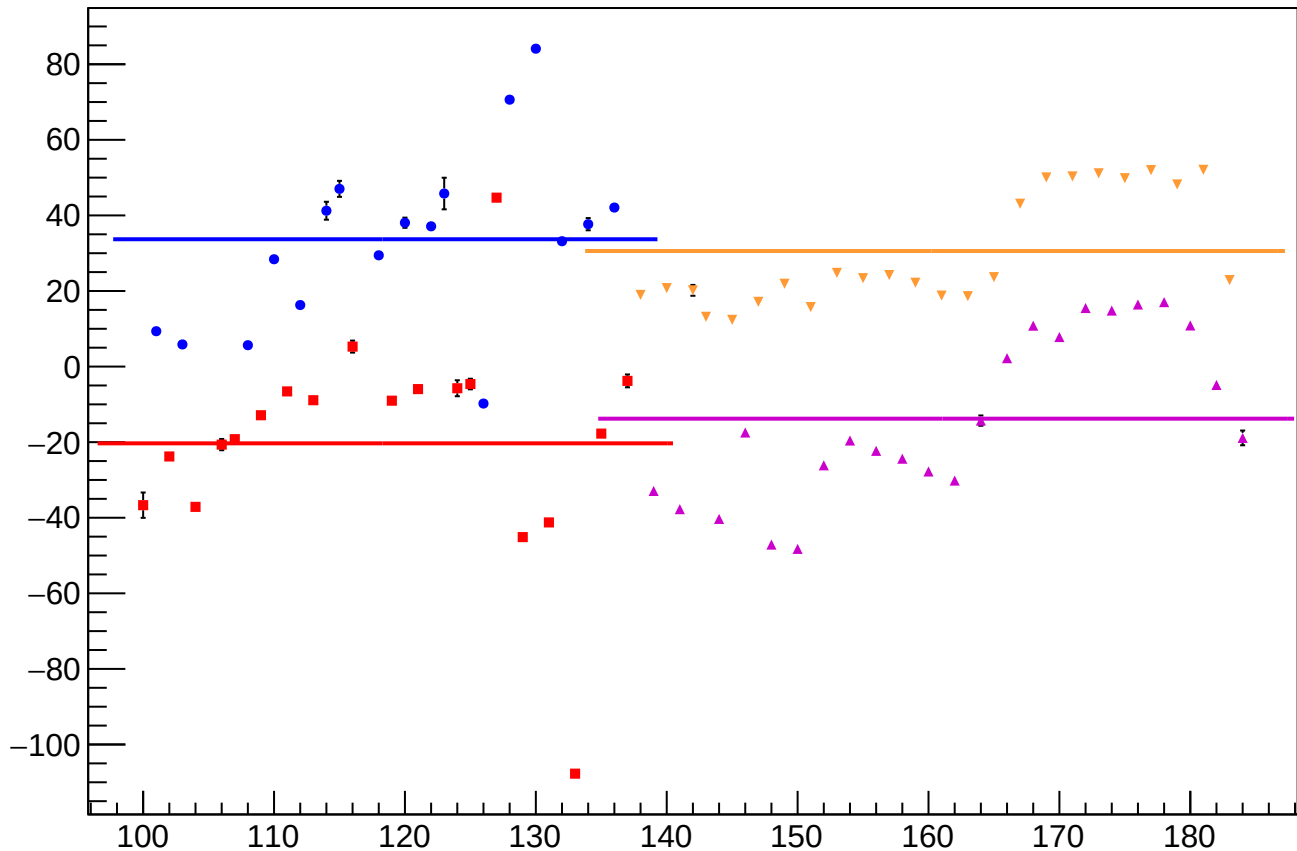
Right: 629.628 ± 0.120 χ^2/NDF : 48740.5/35

In: 693.371 ± 0.101 χ^2/NDF : 520528.4/39

Out: 686.804 ± 0.097 χ^2/NDF : 543708.9/42

All: 689.981 ± 0.070 χ^2/NDF : 1066439.9/82

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.692 ± 0.300 χ^2/NDF : 6428.2/16

Left Out: 30.584 ± 0.240 χ^2/NDF : 3774.0/23

Right Out: -20.314 ± 0.293 χ^2/NDF : 11278.0/18

Left In: -13.787 ± 0.246 χ^2/NDF : 7979.7/22

Left: 8.949 ± 0.172 χ^2/NDF : 28446.7/46

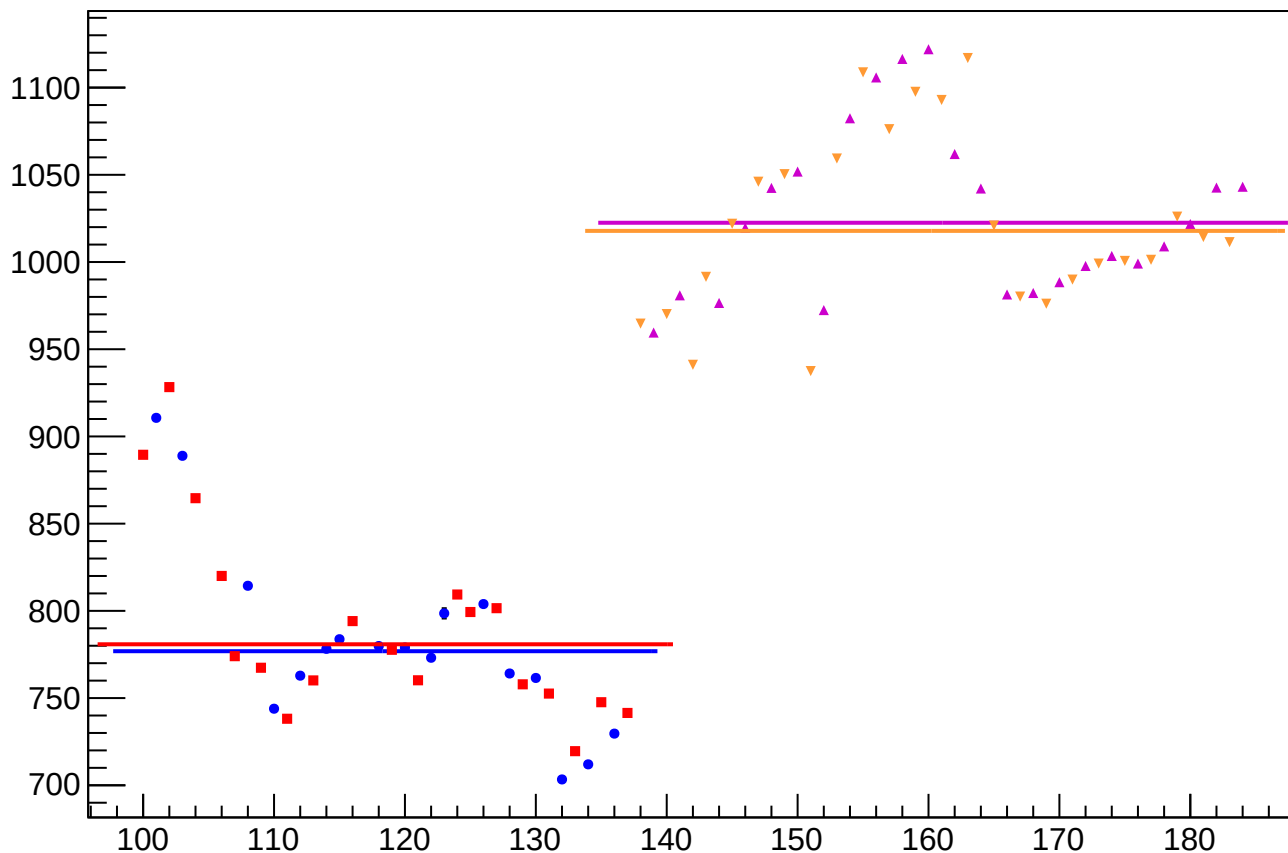
Right: 6.016 ± 0.210 χ^2/NDF : 34265.5/35

In: 5.253 ± 0.190 χ^2/NDF : 29367.1/39

Out: 10.169 ± 0.186 χ^2/NDF : 33120.0/42

All: 7.773 ± 0.133 χ^2/NDF : 62829.2/82

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.869 $\pm$ 0.212 χ^2/NDF : 67447.3/16

Left Out: 1017.849 $\pm$ 0.170 χ^2/NDF : 83195.2/23

Right Out: 780.840 $\pm$ 0.207 χ^2/NDF : 57297.9/18

Left In: 1022.511 $\pm$ 0.174 χ^2/NDF : 69635.5/22

Left: 1020.122 $\pm$ 0.121 χ^2/NDF : 153199.2/46

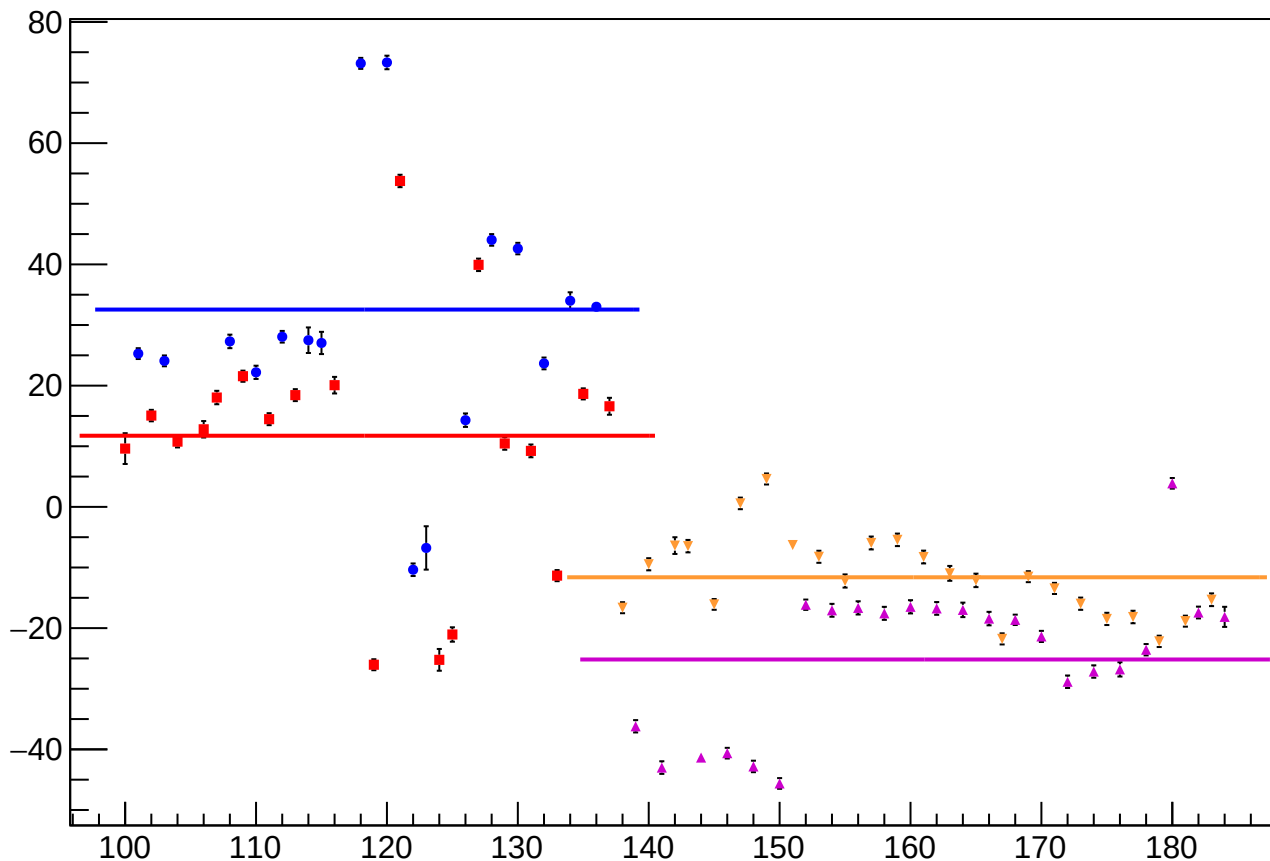
Right: 778.904 $\pm$ 0.148 χ^2/NDF : 124924.2/35

In: 924.002 $\pm$ 0.135 χ^2/NDF : 937923.9/39

Out: 922.787 $\pm$ 0.131 χ^2/NDF : 924063.8/42

All: 923.380 $\pm$ 0.094 χ^2/NDF : 1862029.5/82

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.550 ± 0.253 χ^2/NDF : 6077.4/16

Left Out: -11.613 ± 0.202 χ^2/NDF : 1141.8/23

Right Out: 11.737 ± 0.247 χ^2/NDF : 6313.2/18

Left In: -25.174 ± 0.207 χ^2/NDF : 3747.1/22

Left: -18.215 ± 0.145 χ^2/NDF : 7083.1/46

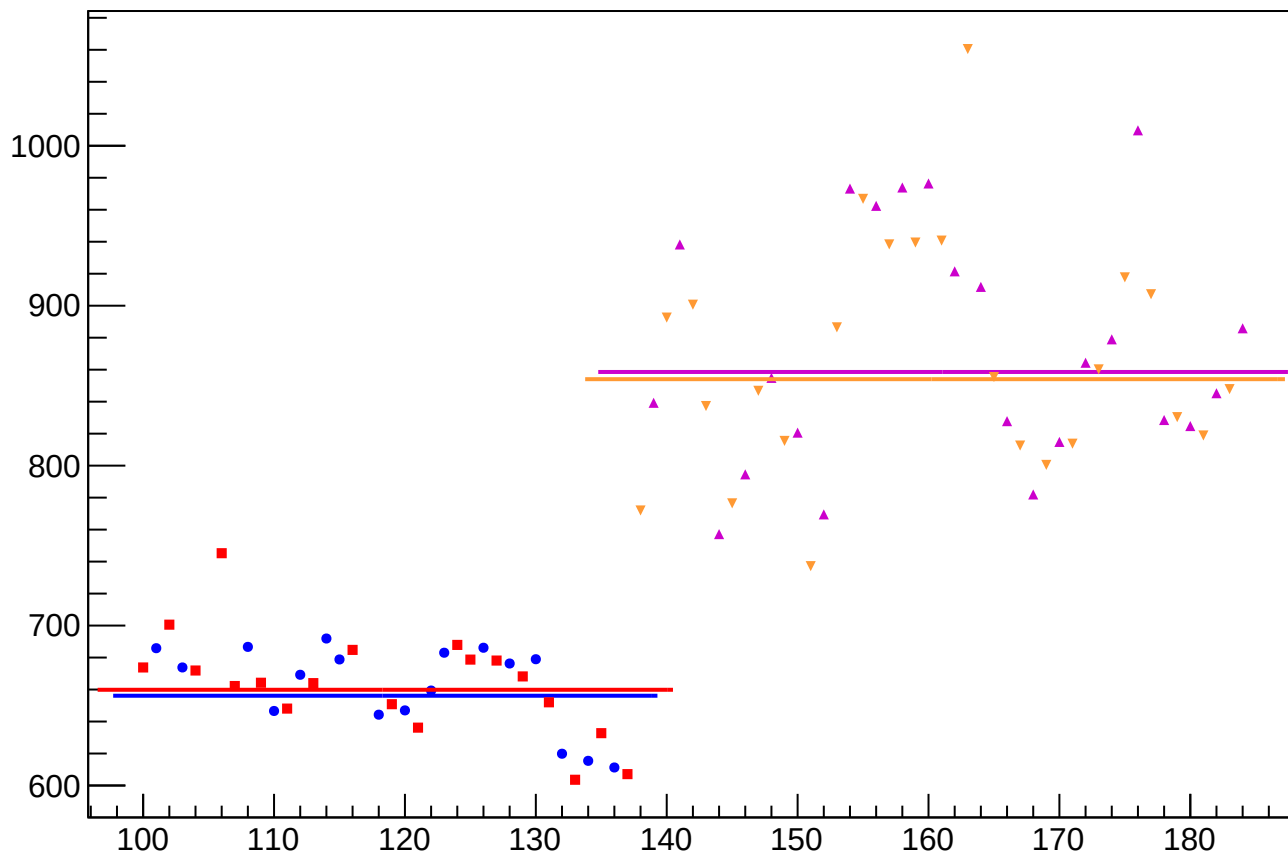
Right: 21.899 ± 0.177 χ^2/NDF : 15845.9/35

In: -2.008 ± 0.160 χ^2/NDF : 40918.7/39

Out: -2.274 ± 0.156 χ^2/NDF : 12799.5/42

All: -2.145 ± 0.112 χ^2/NDF : 53719.6/82

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.132 $\pm$ 0.179 χ^2/NDF : 23518.0/16

Left Out: 854.056 $\pm$ 0.143 χ^2/NDF : 233929.7/23

Right Out: 659.855 $\pm$ 0.175 χ^2/NDF : 28270.5/18

Left In: 858.563 $\pm$ 0.147 χ^2/NDF : 239019.8/22

Left: 856.251 $\pm$ 0.102 χ^2/NDF : 473434.3/46

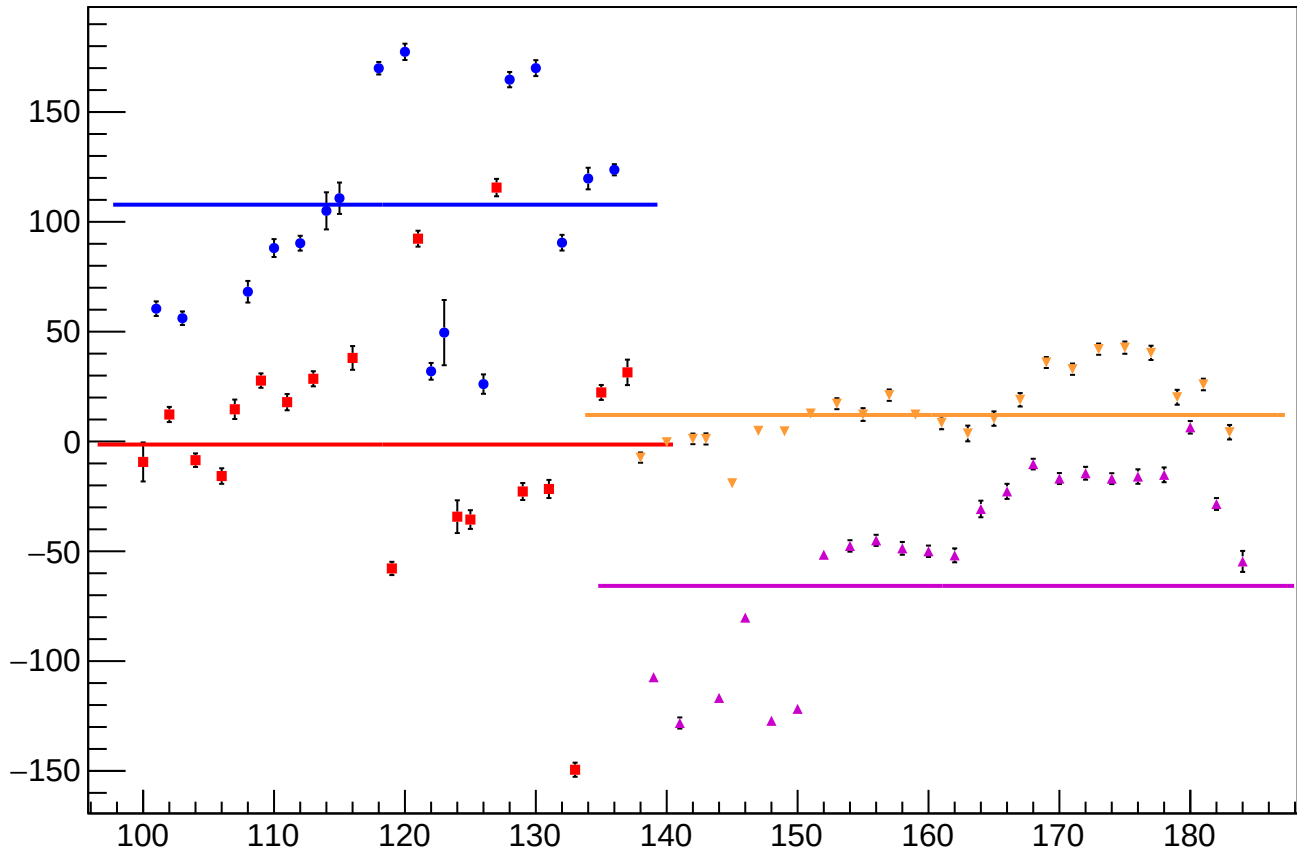
Right: 658.037 $\pm$ 0.125 χ^2/NDF : 52009.7/35

In: 777.325 $\pm$ 0.113 χ^2/NDF : 1027362.9/39

Out: 776.384 $\pm$ 0.111 χ^2/NDF : 1001581.9/42

All: 776.843 $\pm$ 0.079 χ^2/NDF : 2028980.0/82

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.816 $\pm$ 0.923 χ^2 /NDF: 2815.8/16

Left Out: 12.064 $\pm$ 0.509 χ^2 /NDF: 969.9/23

Right Out: -1.388 $\pm$ 0.885 χ^2 /NDF: 4515.0/18

Left In: -65.752 $\pm$ 0.518 χ^2 /NDF: 7335.8/22

Left: -26.223 $\pm$ 0.363 χ^2 /NDF: 19783.4/46

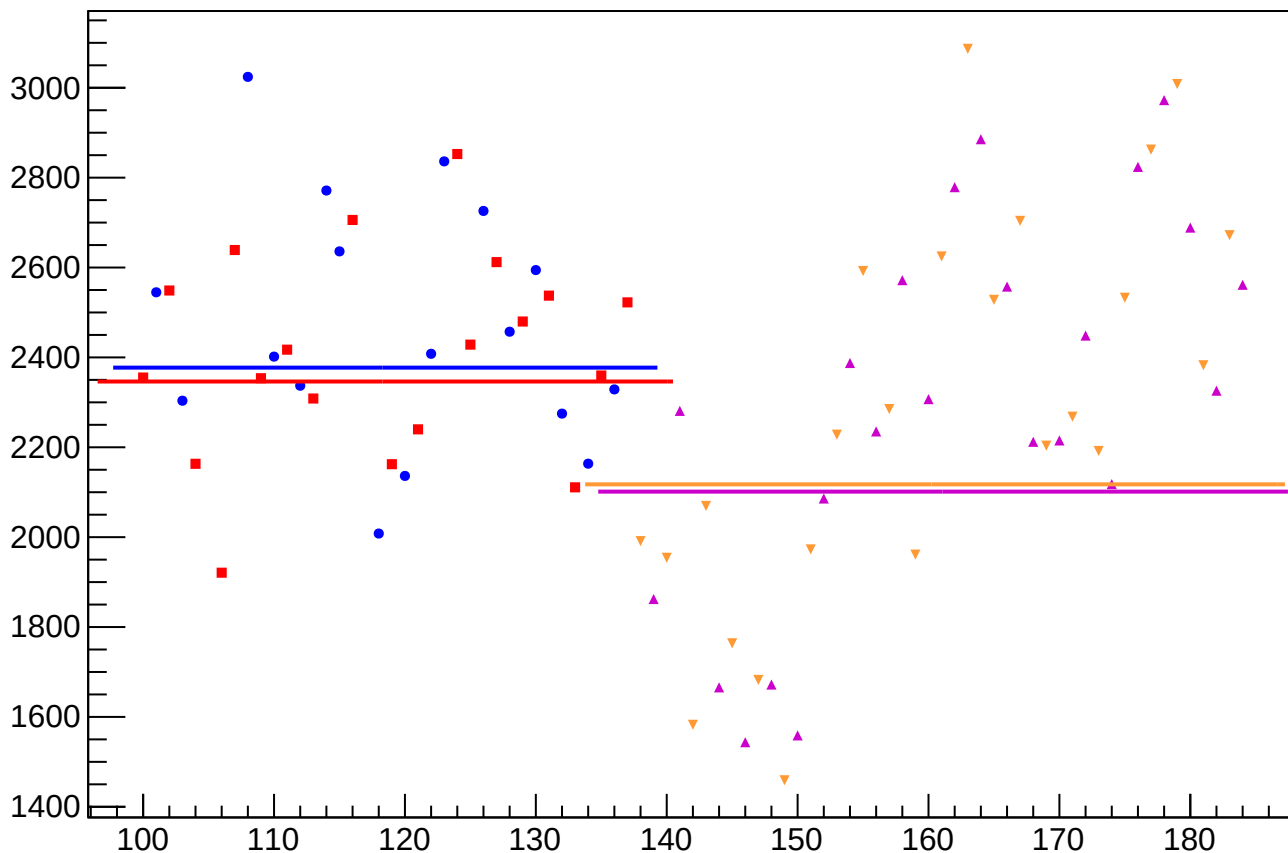
Right: 50.907 $\pm$ 0.639 χ^2 /NDF: 14624.3/35

In: -24.223 $\pm$ 0.452 χ^2 /NDF: 37047.8/39

Out: 8.715 $\pm$ 0.442 χ^2 /NDF: 5658.5/42

All: -7.386 $\pm$ 0.316 χ^2 /NDF: 45426.7/82

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.271+/-0.653 χ^2/NDF : 119441.2/16

Left Out: 2117.518+/-0.360 χ^2/NDF :1374801.3/23

Right Out: 2346.354+/-0.626 χ^2/NDF : 108612.6/18

Left In: 2101.325+/-0.366 χ^2/NDF :1360518.3/22

Left: 2109.551+/-0.257 χ^2/NDF : 2736313.7/46

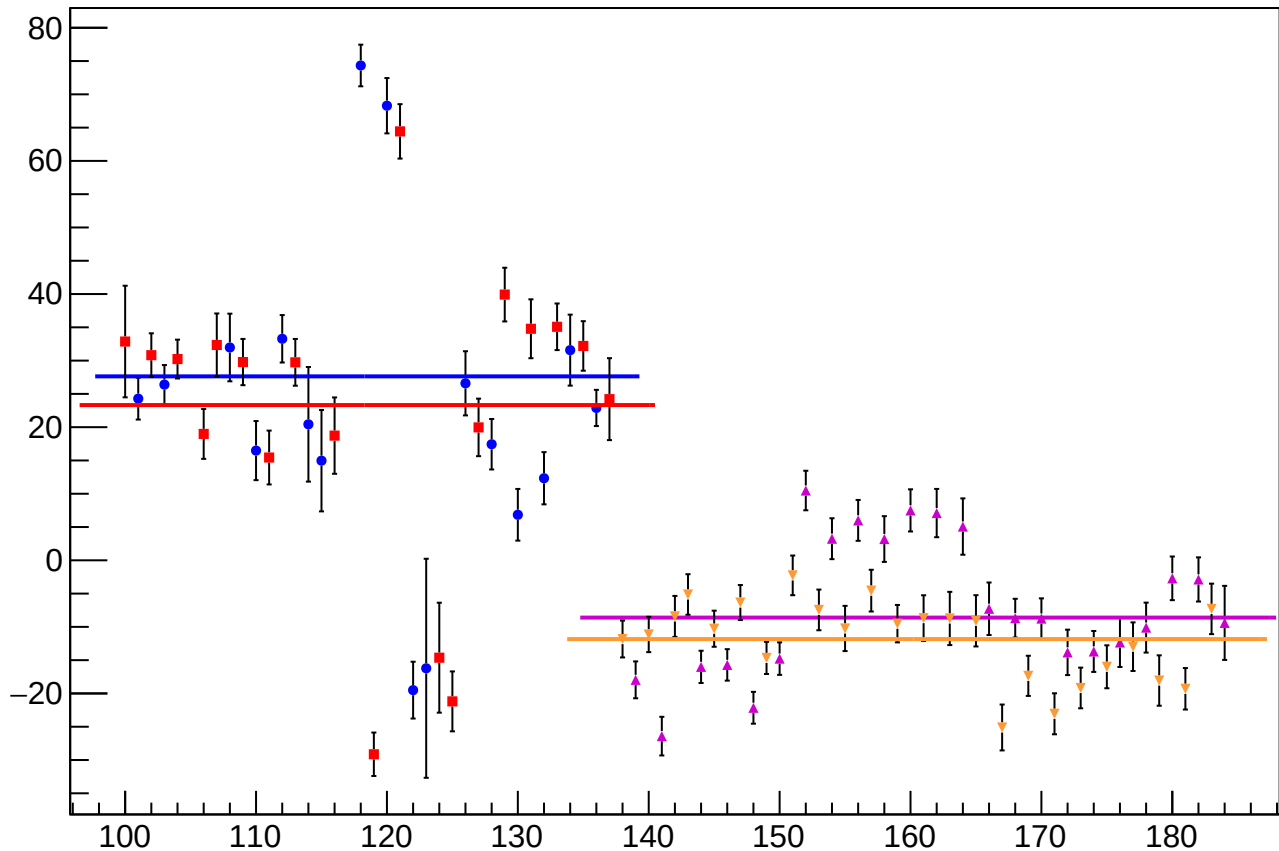
Right: 2361.159+/-0.452 χ^2/NDF : 229223.0/35

In: 2167.349+/-0.319 χ^2/NDF :1615926.7/39

Out: 2174.494+/-0.312 χ^2/NDF :1583867.7/42

All: 2171.001+/-0.223 χ^2/NDF : 3200050.5/82

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.633 $\pm$ 0.976 χ^2/NDF : 517.1/16

Left Out: -11.835 $\pm$ 0.631 χ^2/NDF : 81.7/23

Right Out: 23.322 $\pm$ 0.929 χ^2/NDF : 548.2/18

Left In: -8.606 $\pm$ 0.642 χ^2/NDF : 264.2/22

Left: -10.247 $\pm$ 0.450 χ^2/NDF : 358.8/46

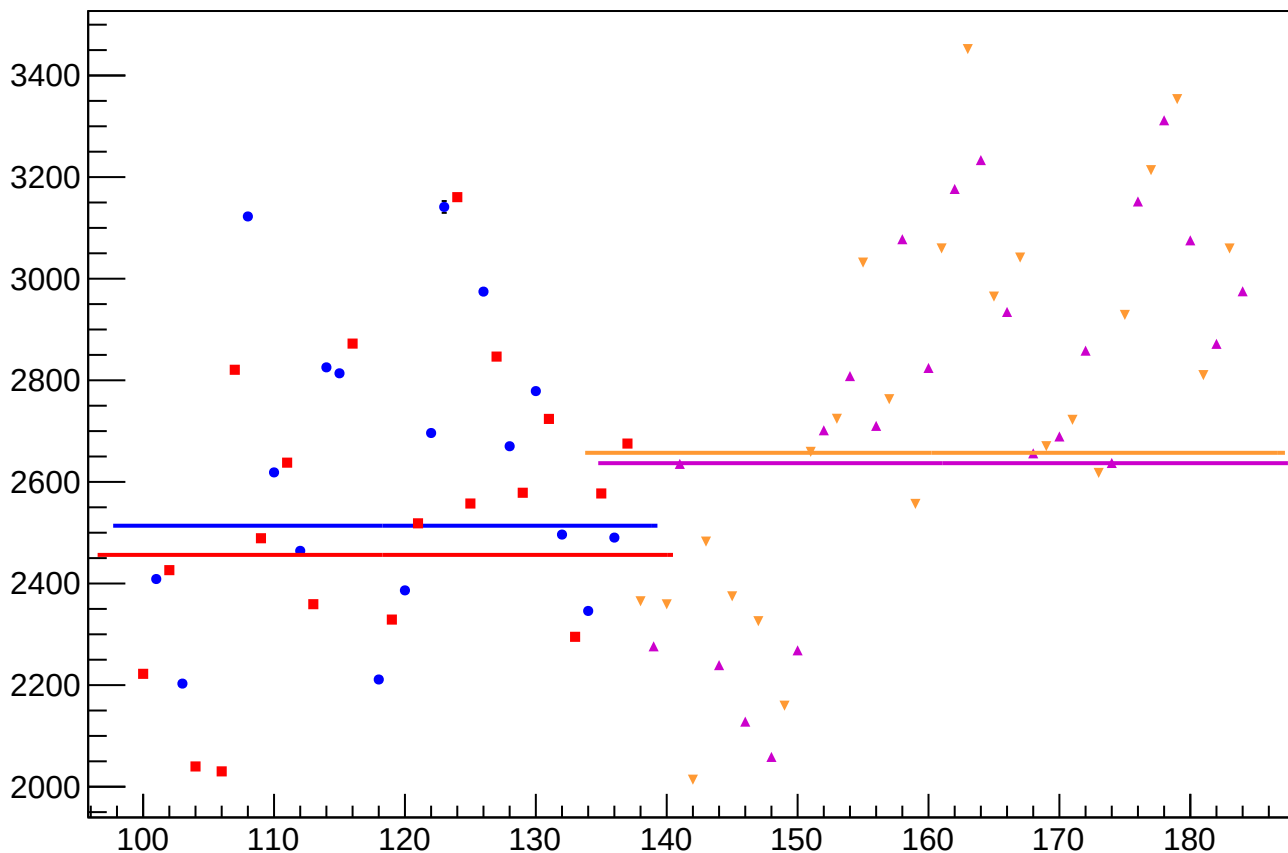
Right: 25.369 $\pm$ 0.673 χ^2/NDF : 1075.6/35

In: 2.331 $\pm$ 0.536 χ^2/NDF : 1743.2/39

Out: -0.718 $\pm$ 0.522 χ^2/NDF : 1610.2/42

All: 0.766 $\pm$ 0.374 χ^2/NDF : 3370.0/82

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2513.762 ± 0.690 $\chi^2/\text{NDF}: 120863.4/16$

Left Out: 2657.282 ± 0.446 $\chi^2/\text{NDF}: 611114.4/23$

Right Out: 2456.343 ± 0.657 $\chi^2/\text{NDF}: 149877.3/18$

Left In: 2636.885 ± 0.454 $\chi^2/\text{NDF}: 652894.5/22$

Left: 2647.252 ± 0.318 $\chi^2/\text{NDF}: 1265035.1/46$

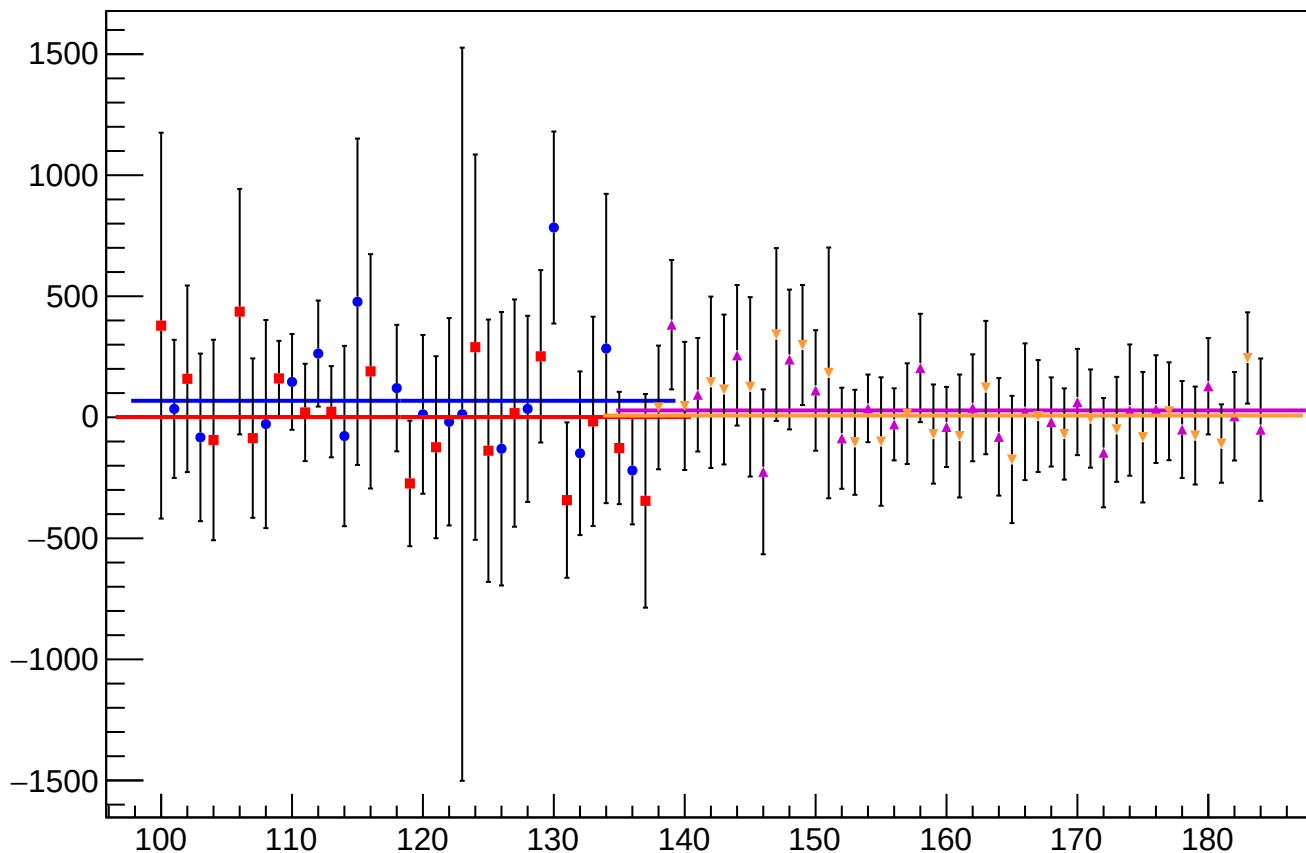
Right: 2483.612 ± 0.476 $\chi^2/\text{NDF}: 274372.9/35$

In: 2599.725 ± 0.379 $\chi^2/\text{NDF}: 795964.3/39$

Out: 2593.742 ± 0.369 $\chi^2/\text{NDF}: 825038.7/42$

All: 2596.653 ± 0.265 $\chi^2/\text{NDF}: 1621130.8/82$

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.238 $\pm$ 79.240 χ^2 /NDF: 7.4/16

Left Out: 7.270 $\pm$ 48.223 χ^2 /NDF: 6.7/23

Right Out: 1.201 $\pm$ 69.991 χ^2 /NDF: 6.5/18

Left In: 28.310 $\pm$ 44.638 χ^2 /NDF: 6.3/22

Left: 18.601 $\pm$ 32.758 χ^2 /NDF: 13.1/46

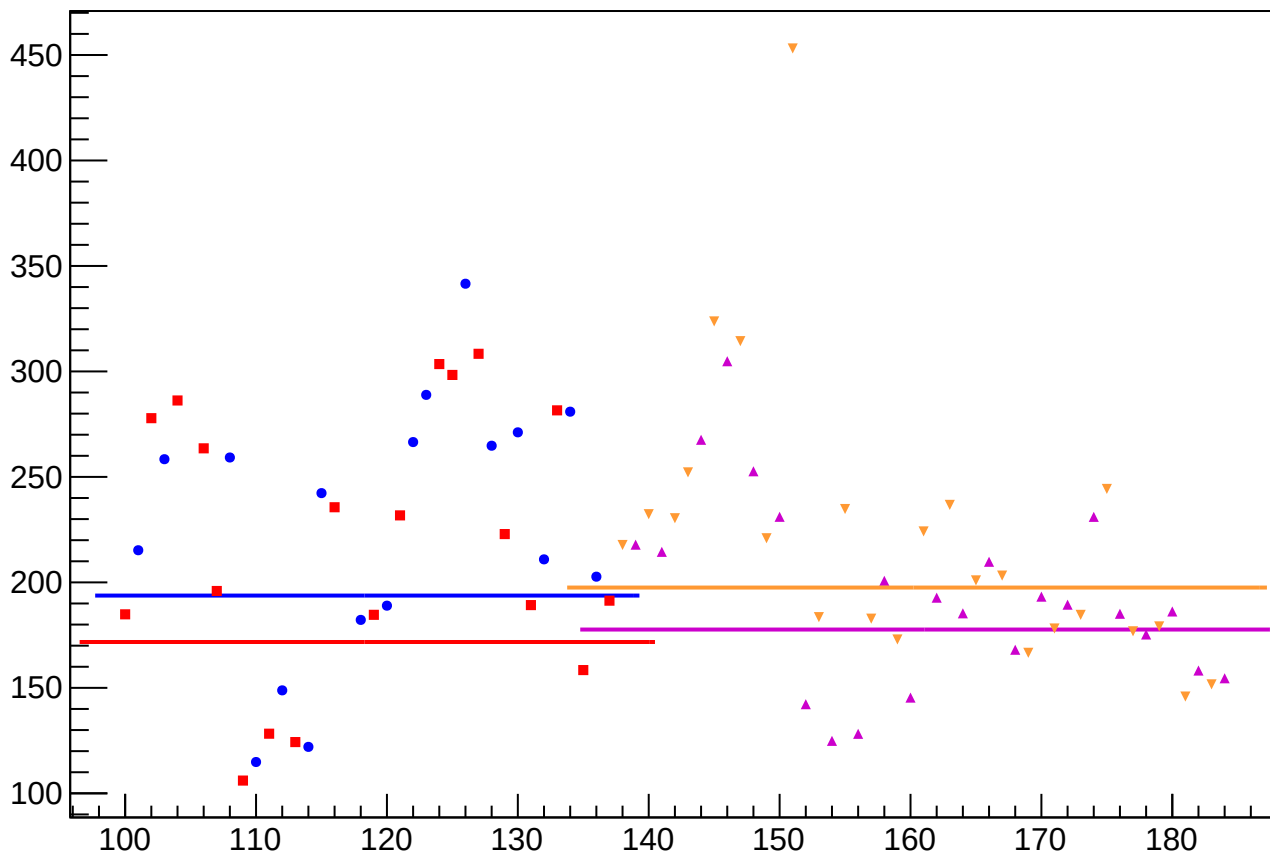
Right: 30.580 $\pm$ 52.458 χ^2 /NDF: 14.3/35

In: 37.928 $\pm$ 38.892 χ^2 /NDF: 13.9/39

Out: 5.316 $\pm$ 39.710 χ^2 /NDF: 13.2/42

All: 21.962 $\pm$ 27.785 χ^2 /NDF: 27.4/82

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.749 $\pm$ 0.056 χ^2 /NDF: 1011115.2/16

Left Out: 197.550 $\pm$ 0.034 χ^2 /NDF: 1726718.3/23

Right Out: 171.741 $\pm$ 0.049 χ^2 /NDF: 1571422.7/18

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF: 1630664.5/22

Left: 186.829 $\pm$ 0.023 χ^2 /NDF: 3540923.2/46

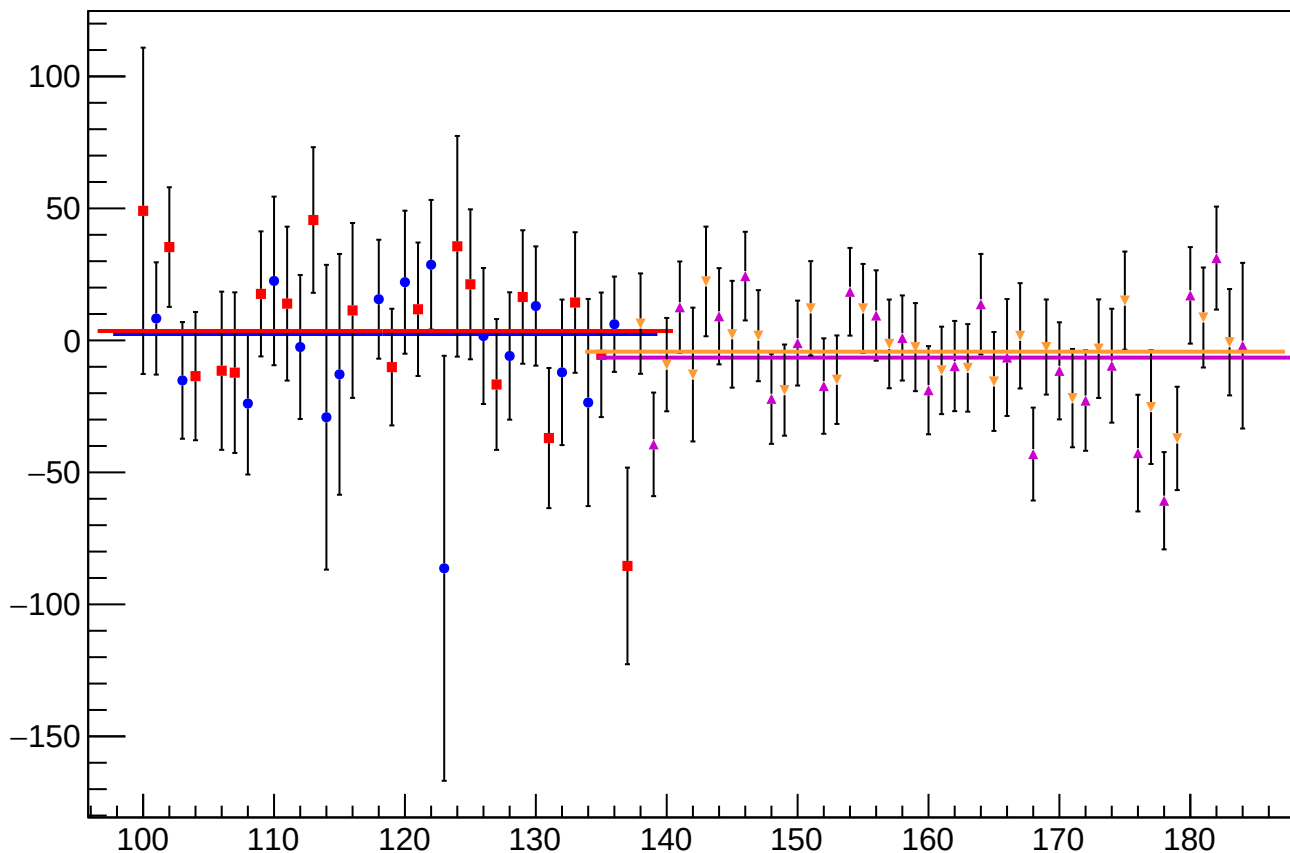
Right: 181.386 $\pm$ 0.037 χ^2 /NDF: 2669200.7/35

In: 181.523 $\pm$ 0.028 χ^2 /NDF: 2704498.9/39

Out: 189.242 $\pm$ 0.028 χ^2 /NDF: 3482545.9/42

All: 185.302 $\pm$ 0.020 χ^2 /NDF: 6225615.6/82

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.423 ± 6.440 $\chi^2/\text{NDF}: 6.8/16$

Left Out: -4.278 ± 3.760 $\chi^2/\text{NDF}: 12.3/23$

Right Out: 3.569 ± 6.294 $\chi^2/\text{NDF}: 17.1/18$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.382 ± 2.682 $\chi^2/\text{NDF}: 48.9/46$

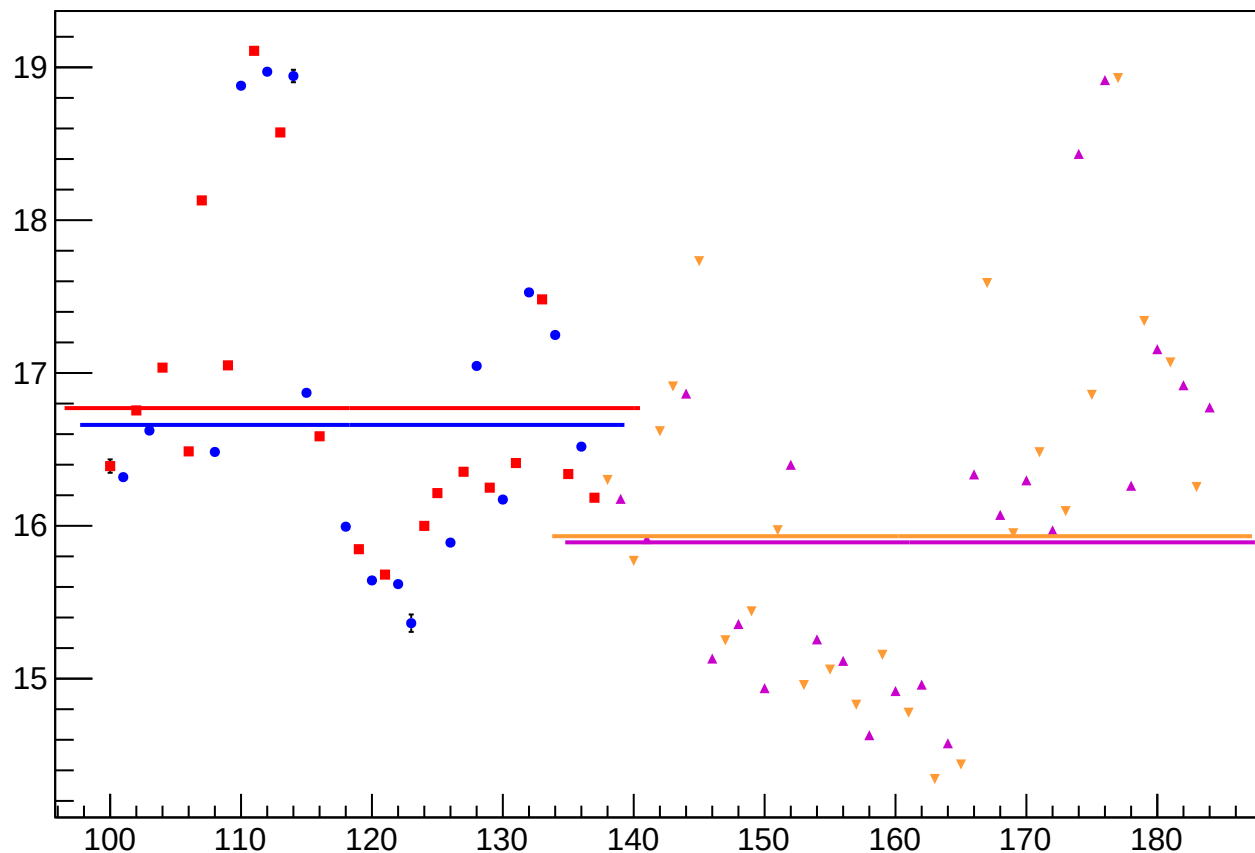
Right: 3.009 ± 4.501 $\chi^2/\text{NDF}: 24.0/35$

In: -4.190 ± 3.290 $\chi^2/\text{NDF}: 44.6/39$

Out: -2.213 ± 3.228 $\chi^2/\text{NDF}: 30.6/42$

All: -3.183 ± 2.304 $\chi^2/\text{NDF}: 75.5/82$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.660 $\pm$ 0.005 χ^2 /NDF: 42269.4/16

Left Out: 15.932 $\pm$ 0.003 χ^2 /NDF:170659.3/23

Right Out: 16.770 $\pm$ 0.004 χ^2 /NDF: 39259.2/18

Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

Left: 15.912 $\pm$ 0.002 χ^2 /NDF: 317865.4/46

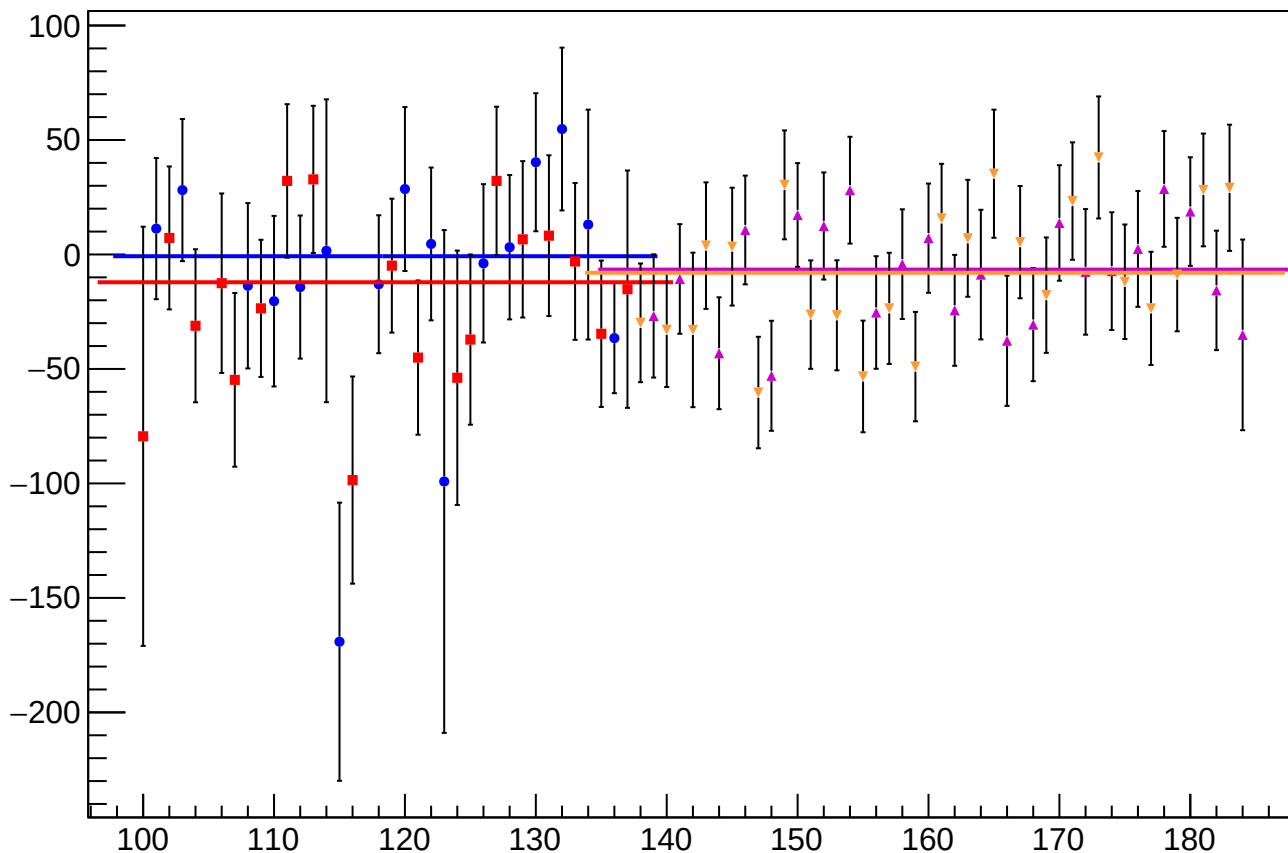
Right: 16.717 $\pm$ 0.003 χ^2 /NDF: 81827.4/35

In: 16.092 $\pm$ 0.002 χ^2 /NDF:210402.2/39

Out: 16.153 $\pm$ 0.002 χ^2 /NDF:236057.2/42

All: 16.123 $\pm$ 0.002 χ^2 /NDF: 446800.8/82

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.764 ± 8.505 $\chi^2/\text{NDF}: 17.6/16$

Left Out: -7.994 ± 5.168 $\chi^2/\text{NDF}: 31.5/23$

Right Out: -12.135 ± 8.228 $\chi^2/\text{NDF}: 15.1/18$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -7.314 ± 3.683 $\chi^2/\text{NDF}: 50.6/46$

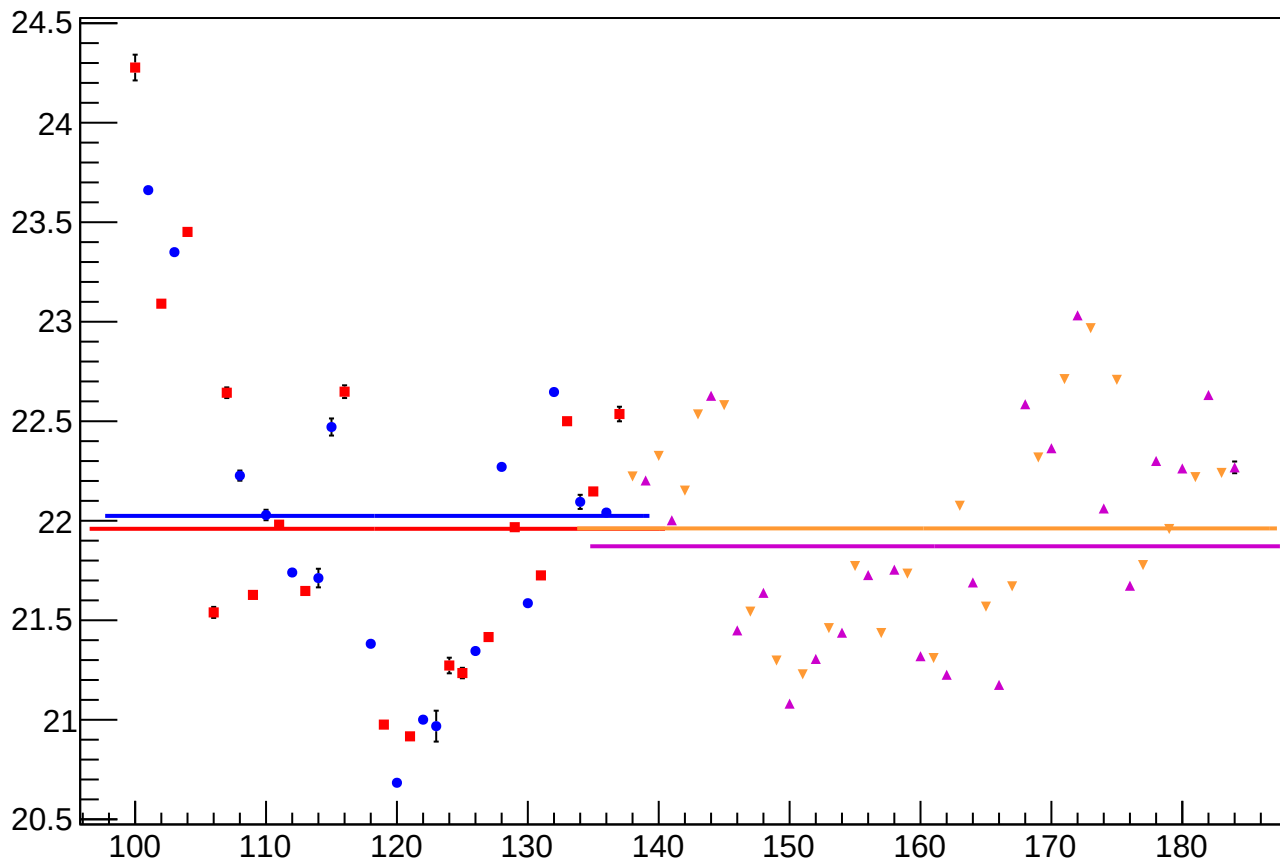
Right: -6.638 ± 5.914 $\chi^2/\text{NDF}: 33.6/35$

In: -4.998 ± 4.468 $\chi^2/\text{NDF}: 37.0/39$

Out: -9.165 ± 4.376 $\chi^2/\text{NDF}: 46.8/42$

All: -7.125 ± 3.127 $\chi^2/\text{NDF}: 84.2/82$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.024 $\pm$ 0.006 χ^2 /NDF: 17381.0/16

Left Out: 21.962 $\pm$ 0.004 χ^2 /NDF:18364.0/23

Right Out: 21.960 $\pm$ 0.006 χ^2 /NDF: 16383.4/18

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

Left: 21.917 $\pm$ 0.003 χ^2 /NDF: 39185.9/46

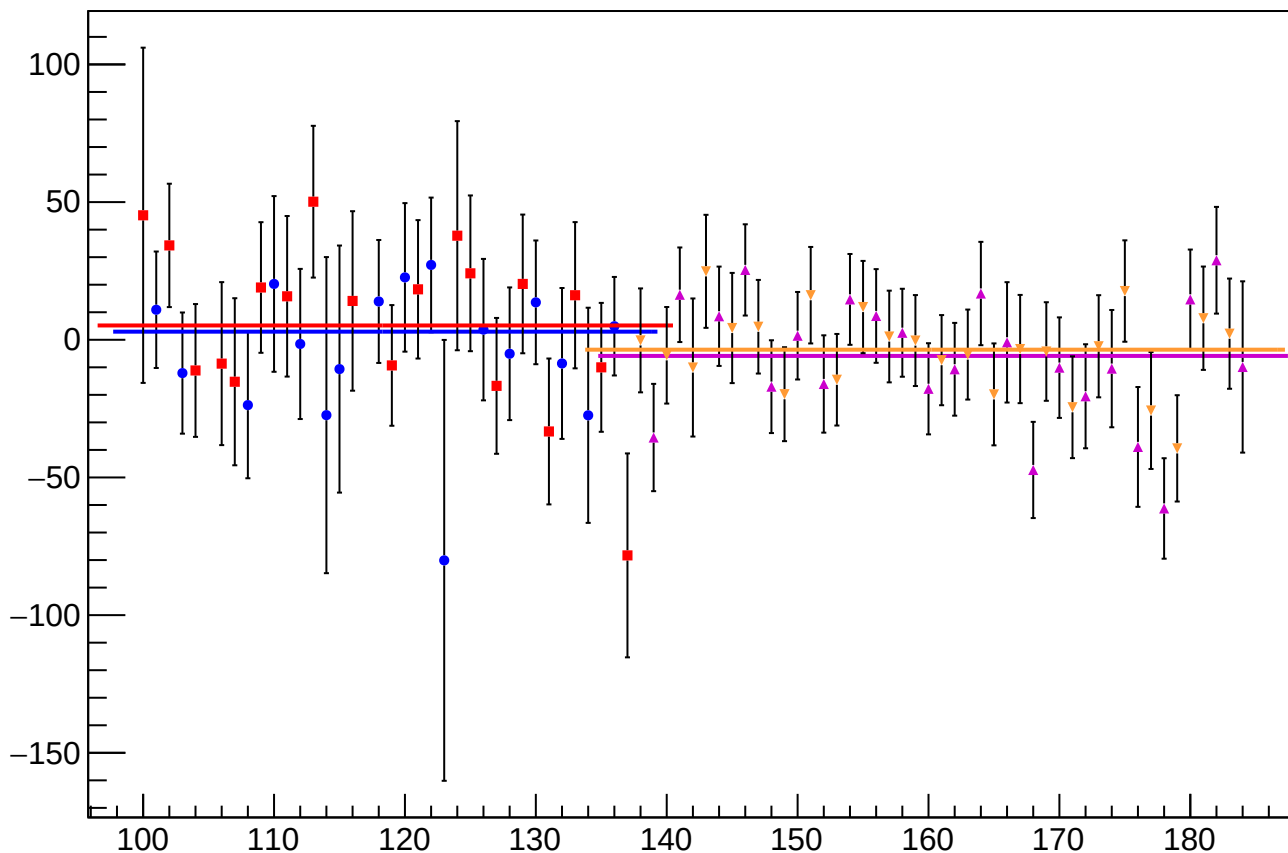
Right: 21.991 $\pm$ 0.004 χ^2 /NDF: 33824.6/35

In: 21.914 $\pm$ 0.003 χ^2 /NDF:38372.6/39

Out: 21.961 $\pm$ 0.003 χ^2 /NDF:34747.6/42

All: 21.938 $\pm$ 0.002 χ^2 /NDF: 73233.4/82

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.948 $\pm$ 6.404 χ^2 /NDF: 6.3/16

Left Out: -3.595 $\pm$ 3.720 χ^2 /NDF:14.5/23

Right Out: 5.199 $\pm$ 6.258 χ^2 /NDF: 17.2/18

Left In: -5.861 $\pm$ 3.787 χ^2 /NDF:36.2/22

Left: -4.708 $\pm$ 2.654 χ^2 /NDF: 50.8/46

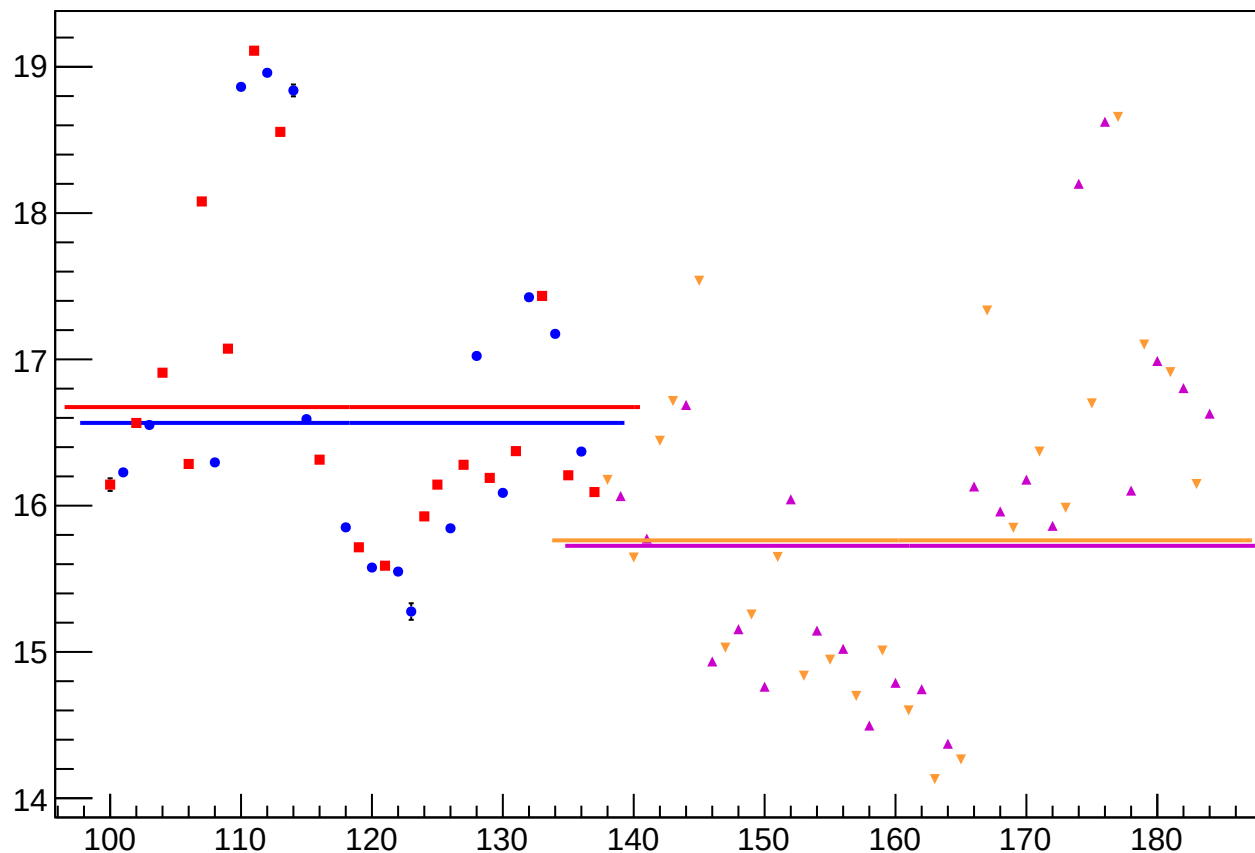
Right: 4.100 $\pm$ 4.476 χ^2 /NDF: 23.5/35

In: -3.579 $\pm$ 3.260 χ^2 /NDF:43.9/39

Out: -1.299 $\pm$ 3.198 χ^2 /NDF:33.1/42

All: -2.417 $\pm$ 2.283 χ^2 /NDF: 77.2/82

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.566 $\pm$ 0.005 χ^2 /NDF: 44242.8/16

Left Out: 15.763 $\pm$ 0.003 χ^2 /NDF:170006.0/23

Right Out: 16.674 $\pm$ 0.004 χ^2 /NDF: 42453.5/18

Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

Left: 15.744 $\pm$ 0.002 χ^2 /NDF: 315935.7/46

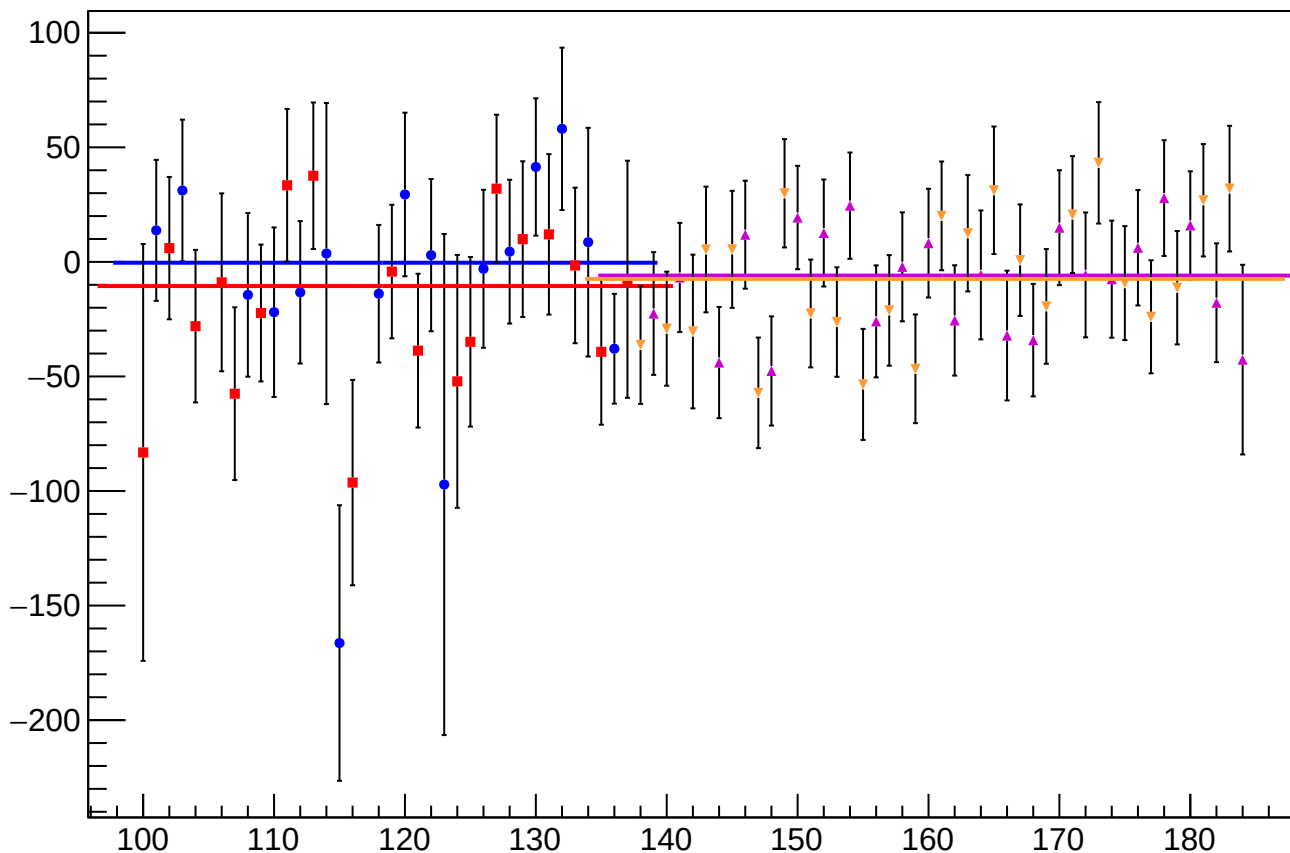
Right: 16.621 $\pm$ 0.003 χ^2 /NDF: 86987.8/35

In: 15.943 $\pm$ 0.002 χ^2 /NDF:215588.3/39

Out: 16.001 $\pm$ 0.002 χ^2 /NDF:243780.9/42

All: 15.972 $\pm$ 0.002 χ^2 /NDF: 459686.1/82

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.358 ± 8.465 χ^2/NDF : 18.4/16

Left Out: -7.417 ± 5.138 χ^2/NDF : 31.0/23

Right Out: -10.548 ± 8.187 χ^2/NDF : 15.7/18

Left In: -5.978 ± 5.222 χ^2/NDF : 18.5/22

Left: -6.709 ± 3.663 χ^2/NDF : 49.6/46

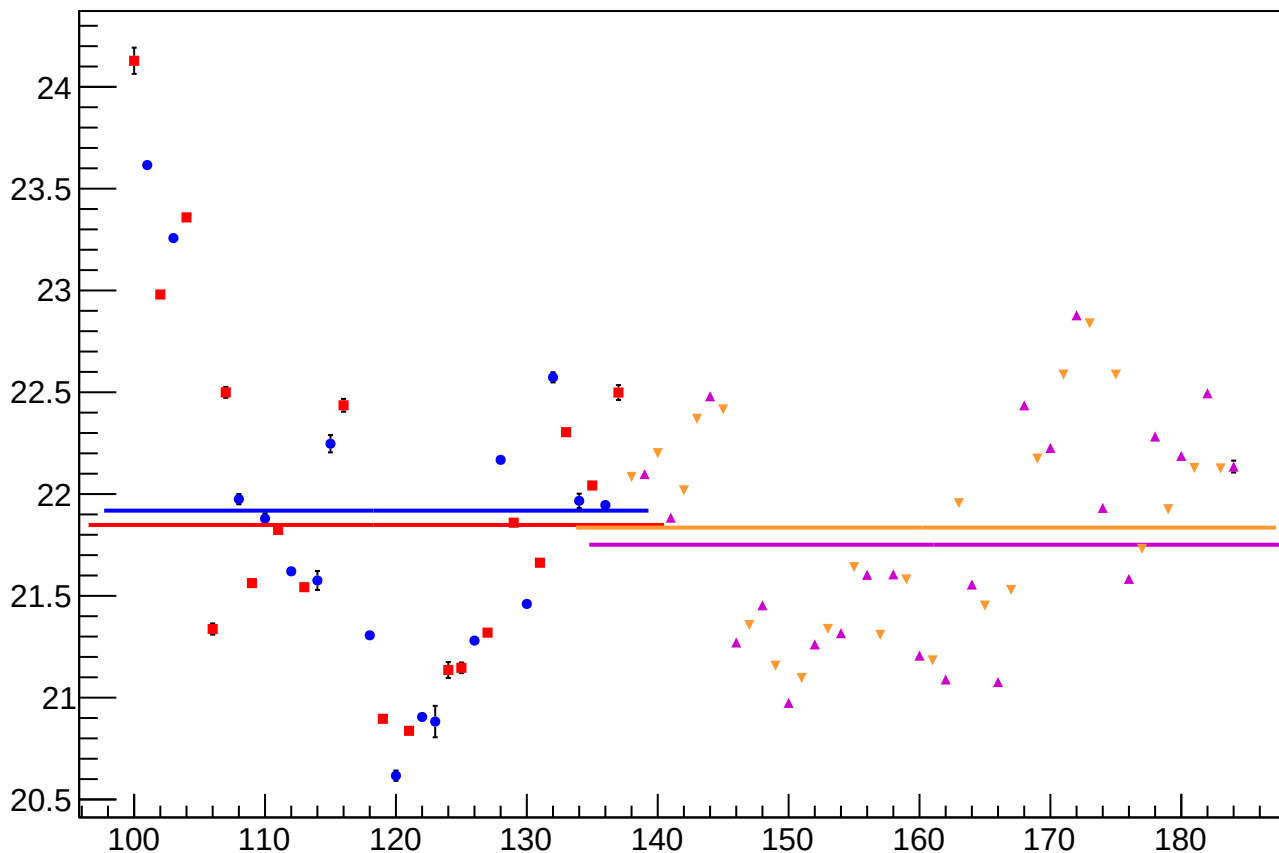
Right: -5.623 ± 5.885 χ^2/NDF : 34.9/35

In: -4.428 ± 4.445 χ^2/NDF : 37.3/39

Out: -8.302 ± 4.352 χ^2/NDF : 46.8/42

All: -6.406 ± 3.109 χ^2/NDF : 84.5/82

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.919 $\pm$ 0.006 χ^2 /NDF: 17641.8/16

Left Out: 21.835 $\pm$ 0.004 χ^2 /NDF:18678.4/23

Right Out: 21.848 $\pm$ 0.006 χ^2 /NDF: 16031.9/18

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.794 $\pm$ 0.003 χ^2 /NDF: 39457.9/46

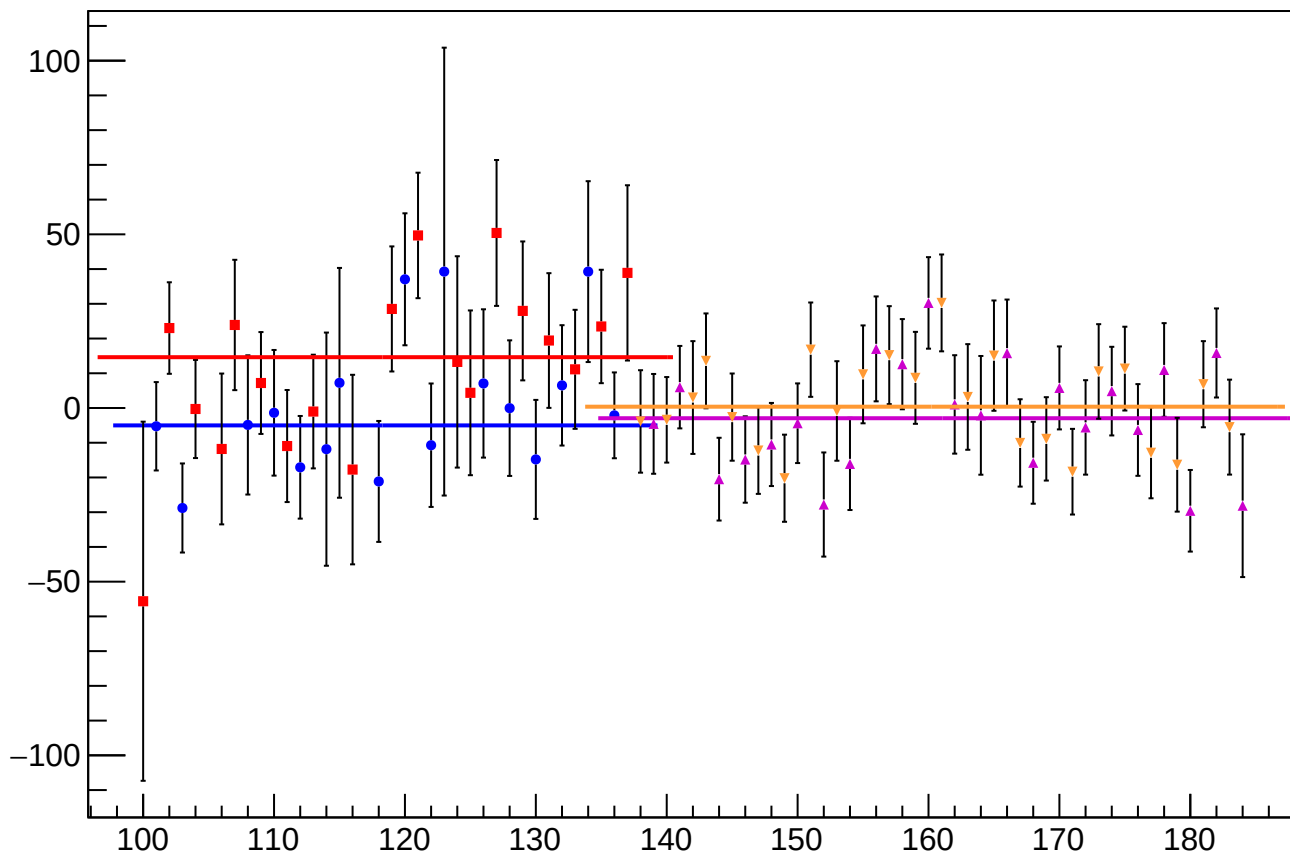
Right: 21.882 $\pm$ 0.004 χ^2 /NDF: 33745.4/35

In: 21.797 $\pm$ 0.003 χ^2 /NDF:38725.3/39

Out: 21.839 $\pm$ 0.003 χ^2 /NDF:34713.8/42

All: 21.819 $\pm$ 0.002 χ^2 /NDF: 73528.1/82

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.010 ± 4.334 χ^2/NDF : 14.8/16

Left Out: 0.377 ± 2.729 χ^2/NDF : 21.8/23

Right Out: 14.630 ± 4.270 χ^2/NDF : 19.4/18

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.267 ± 1.940 χ^2/NDF : 53.5/46

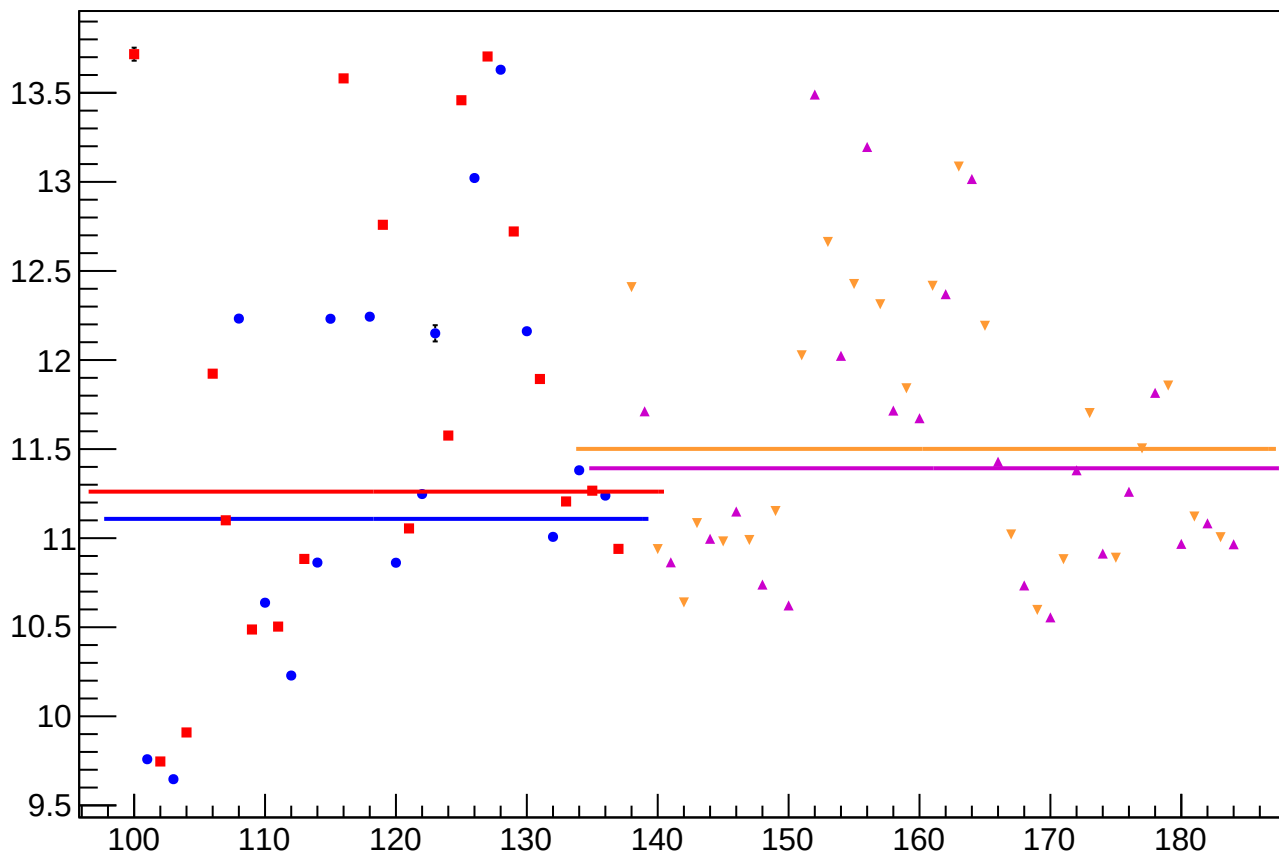
Right: 4.955 ± 3.042 χ^2/NDF : 44.6/35

In: -3.540 ± 2.326 χ^2/NDF : 45.9/39

Out: 4.511 ± 2.300 χ^2/NDF : 49.1/42

All: 0.532 ± 1.636 χ^2/NDF : 101.0/82

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.108 $\pm$ 0.003 χ^2 /NDF: 132594.7/16

Left Out: 11.501 $\pm$ 0.002 χ^2 /NDF:125198.2/23

Right Out: 11.261 $\pm$ 0.003 χ^2 /NDF: 148448.6/18

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.447 $\pm$ 0.001 χ^2 /NDF: 277263.5/46

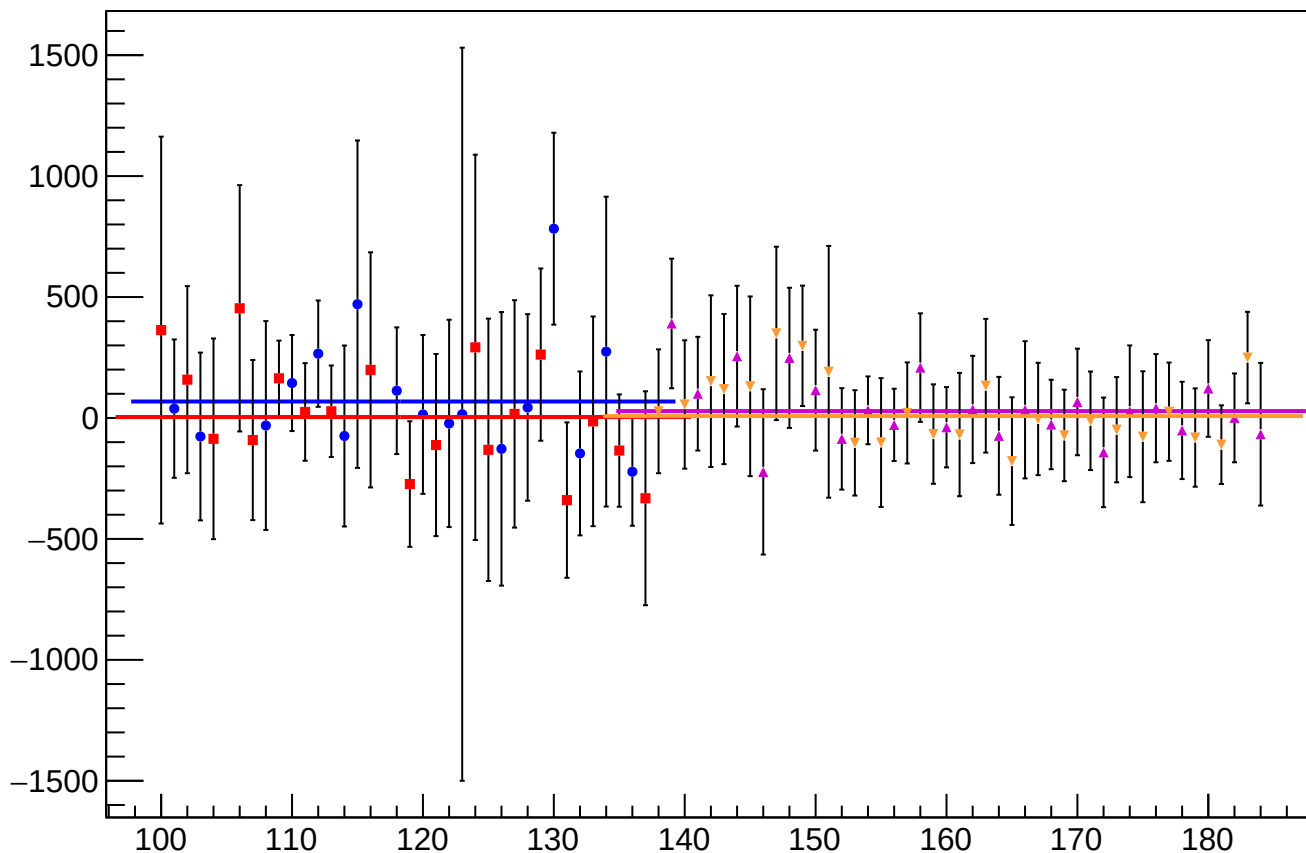
Right: 11.186 $\pm$ 0.002 χ^2 /NDF: 282306.4/35

In: 11.311 $\pm$ 0.002 χ^2 /NDF:289205.8/39

Out: 11.432 $\pm$ 0.002 χ^2 /NDF:278130.9/42

All: 11.372 $\pm$ 0.001 χ^2 /NDF: 570074.9/82

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.114 $\pm$ 79.449 χ^2 /NDF: 7.4/16

Left Out: 7.715 $\pm$ 48.402 χ^2 /NDF:6.9/23

Right Out: 3.876 $\pm$ 70.195 χ^2 /NDF: 6.5/18

Left In: 28.500 $\pm$ 44.797 χ^2 /NDF:6.4/22

Left: 18.911 $\pm$ 32.877 χ^2 /NDF: 13.4/46

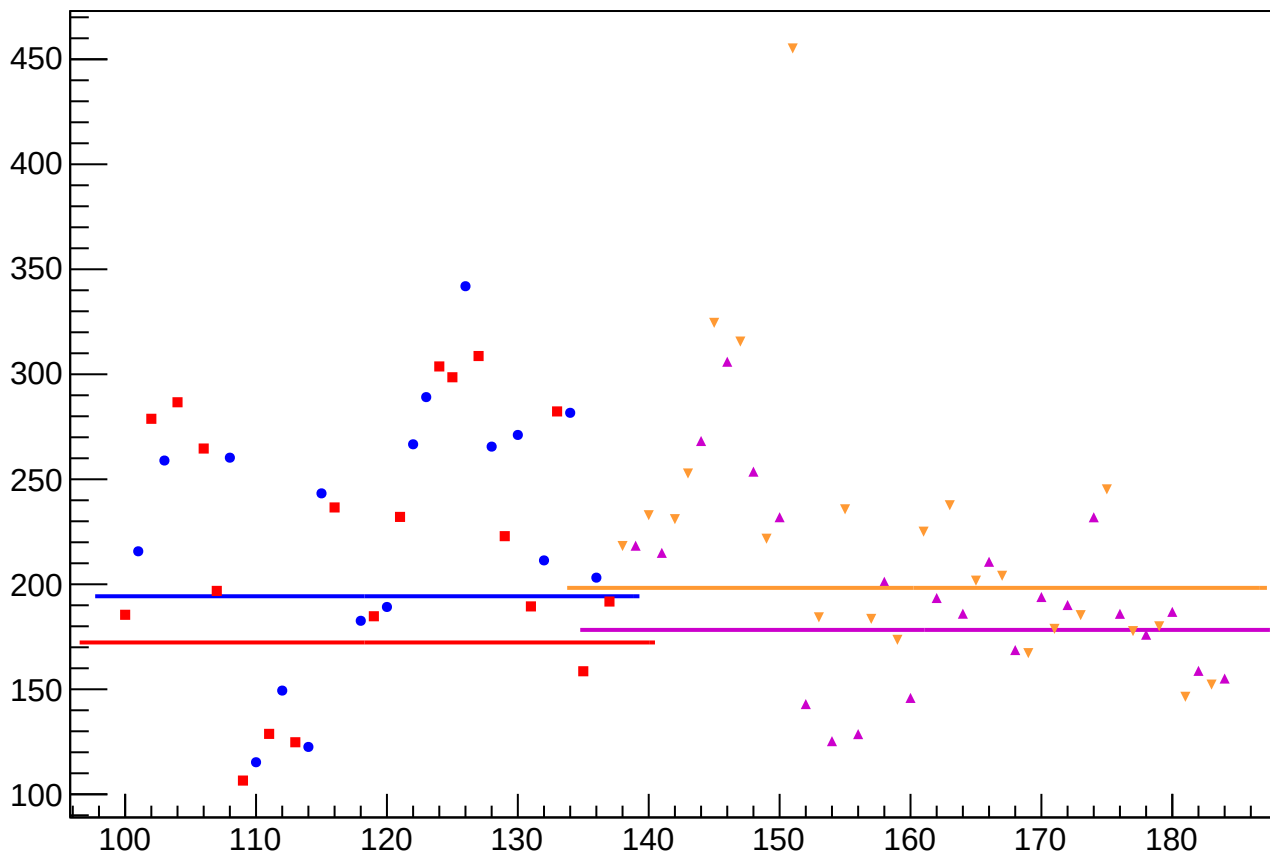
Right: 32.037 $\pm$ 52.604 χ^2 /NDF: 14.3/35

In: 38.056 $\pm$ 39.021 χ^2 /NDF:13.9/39

Out: 6.478 $\pm$ 39.847 χ^2 /NDF:13.5/42

All: 22.598 $\pm$ 27.880 χ^2 /NDF: 27.7/82

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.298 $\pm$ 0.056 χ^2 /NDF: 1006214.8/16

Left Out: 198.288 $\pm$ 0.034 χ^2 /NDF: 1724183.0/23

Right Out: 172.293 $\pm$ 0.050 χ^2 /NDF: 1564135.2/18

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF: 1628916.6/22

Left: 187.510 $\pm$ 0.023 χ^2 /NDF: 3537238.4/46

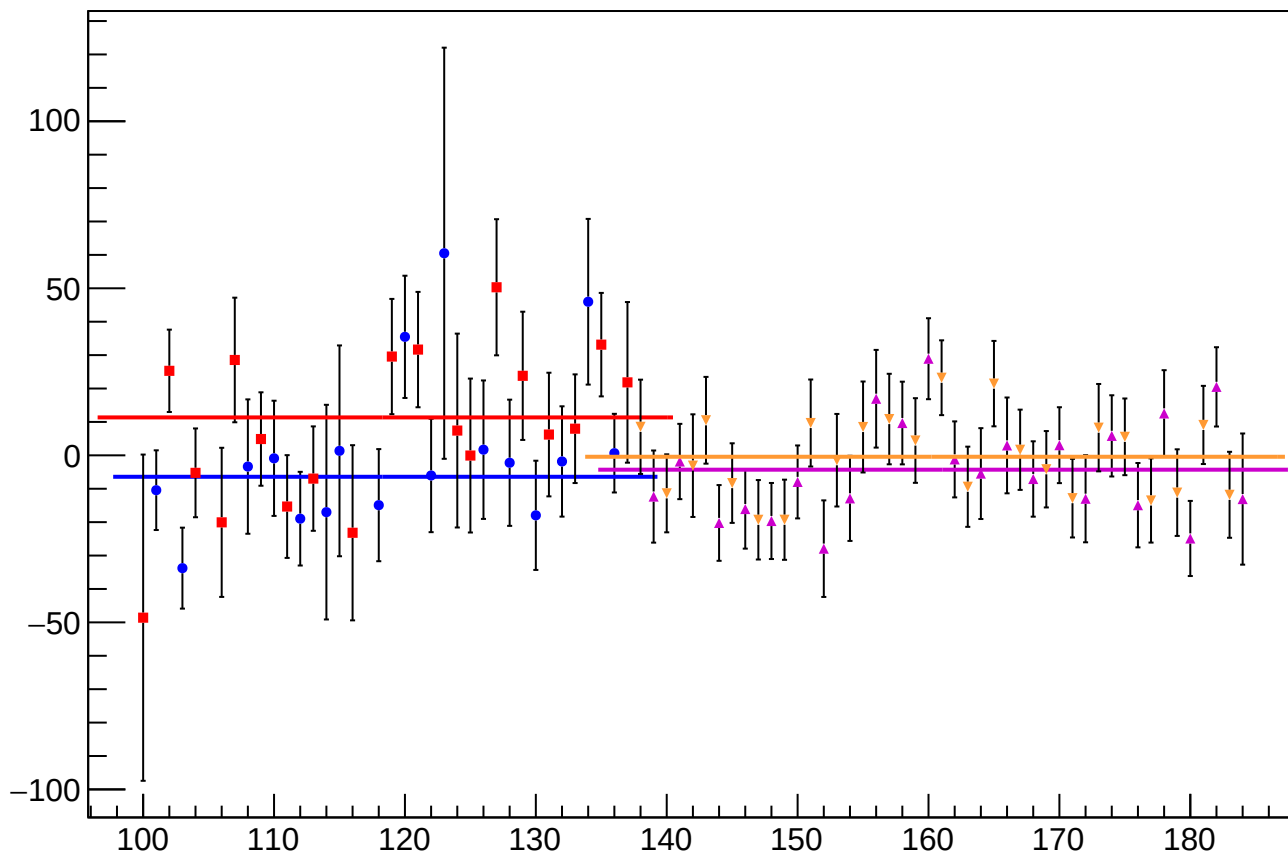
Right: 181.940 $\pm$ 0.037 χ^2 /NDF: 2656513.7/35

In: 182.142 $\pm$ 0.028 χ^2 /NDF: 2696837.8/39

Out: 189.911 $\pm$ 0.028 χ^2 /NDF: 3474223.1/42

All: 185.945 $\pm$ 0.020 χ^2 /NDF: 6209878.0/82

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.419 ± 4.138 χ^2/NDF : 18.6/16

Left Out: -0.426 ± 2.551 χ^2/NDF : 22.4/23

Right Out: 11.351 ± 4.084 χ^2/NDF : 22.6/18

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.333 ± 1.817 χ^2/NDF : 55.2/46

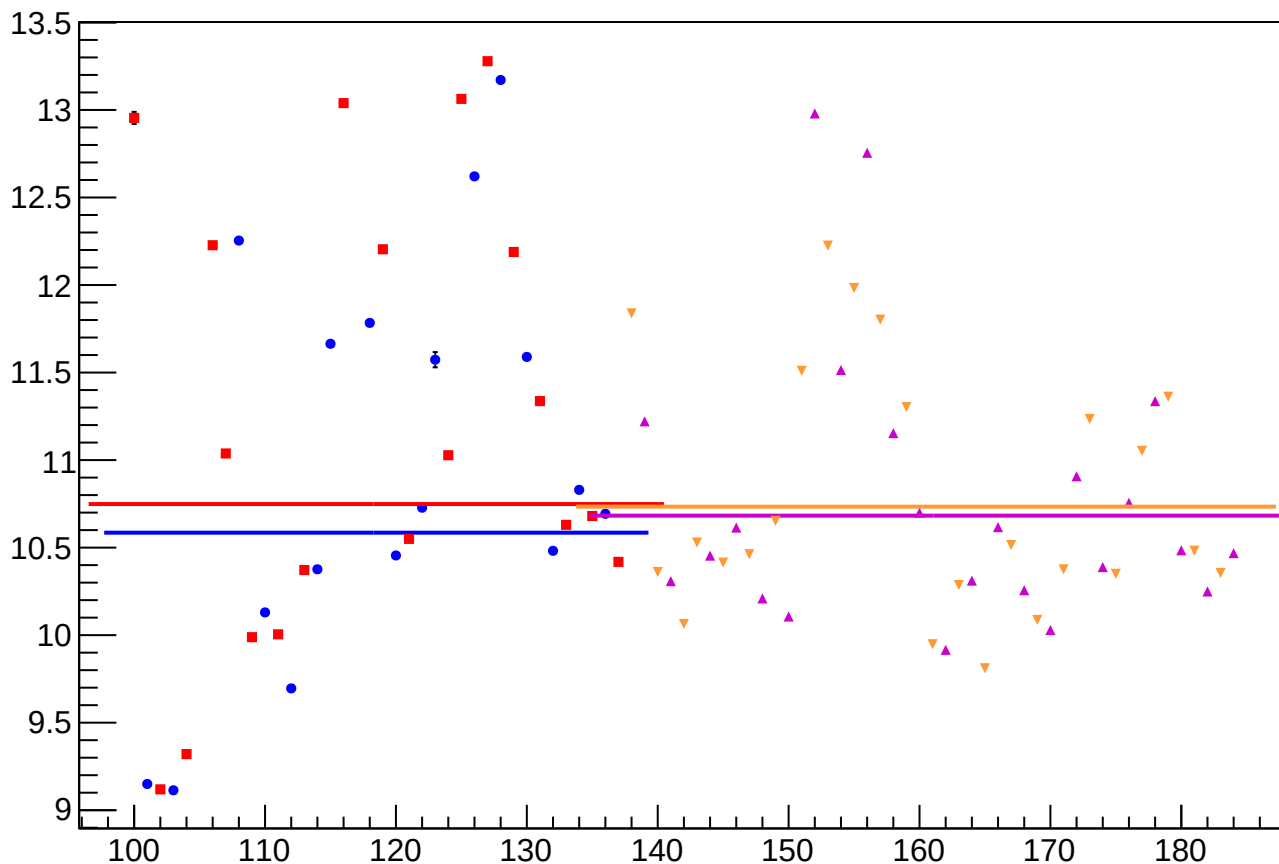
Right: 2.582 ± 2.907 χ^2/NDF : 50.6/35

In: -4.894 ± 2.195 χ^2/NDF : 50.4/39

Out: 2.879 ± 2.164 χ^2/NDF : 51.1/42

All: -0.952 ± 1.541 χ^2/NDF : 107.8/82

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.585 ± 0.003 $\chi^2/\text{NDF}: 159813.8/16$

Left Out: 10.734 ± 0.002 $\chi^2/\text{NDF}: 130535.8/23$

Right Out: 10.749 ± 0.003 $\chi^2/\text{NDF}: 177905.9/18$

Left In: 10.683 ± 0.002 $\chi^2/\text{NDF}: 147835.6/22$

Left: 10.709 ± 0.001 $\chi^2/\text{NDF}: 278771.7/46$

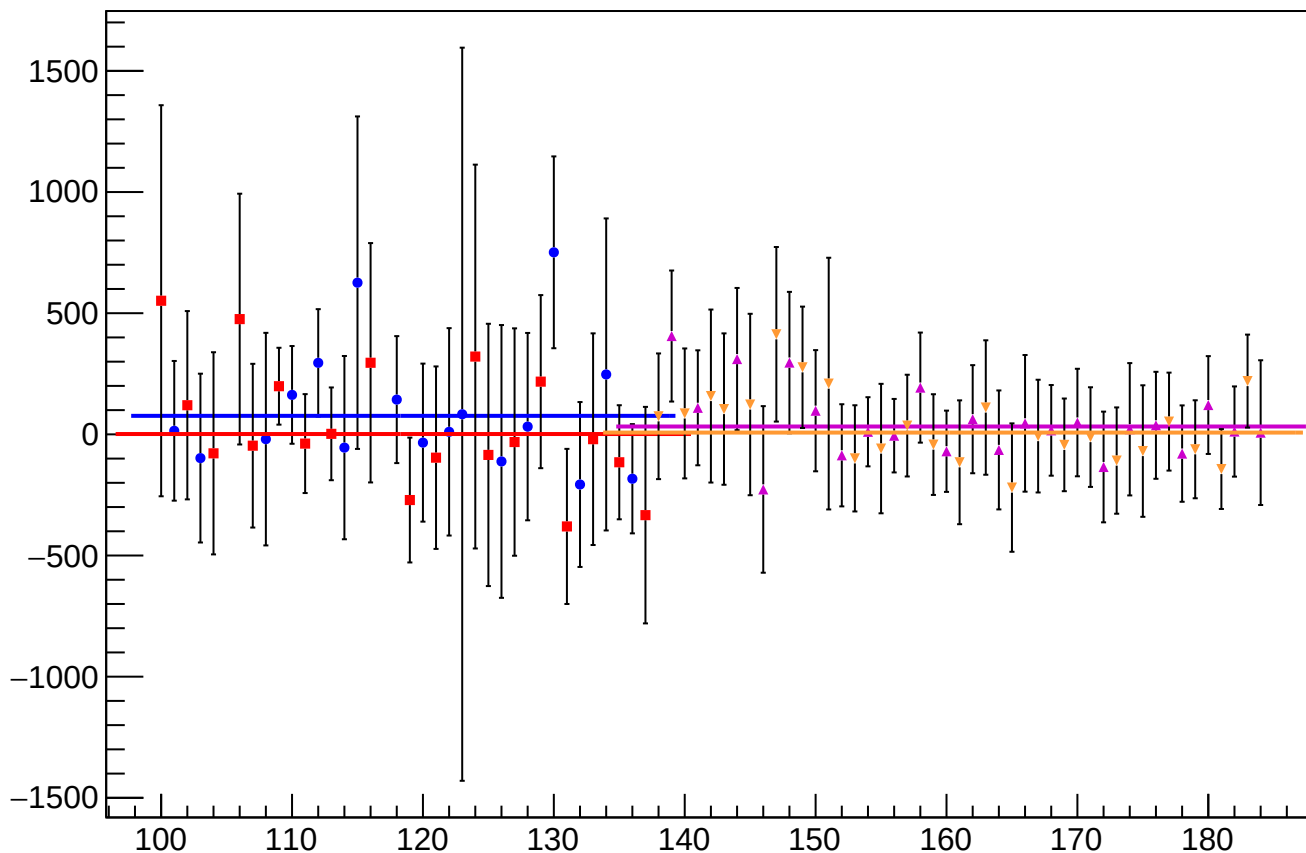
Right: 10.668 ± 0.002 $\chi^2/\text{NDF}: 339301.3/35$

In: 10.655 ± 0.002 $\chi^2/\text{NDF}: 308444.0/39$

Out: 10.738 ± 0.002 $\chi^2/\text{NDF}: 308460.6/42$

All: 10.697 ± 0.001 $\chi^2/\text{NDF}: 618353.0/82$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 76.396 $\pm$ 79.969 χ^2 /NDF: 7.6/16

Left Out: 7.334 $\pm$ 48.716 χ^2 /NDF:7.2/23

Right Out: 1.355 $\pm$ 70.867 χ^2 /NDF: 7.4/18

Left In: 32.413 $\pm$ 45.155 χ^2 /NDF:6.9/22

Left: 20.823 $\pm$ 33.117 χ^2 /NDF: 14.3/46

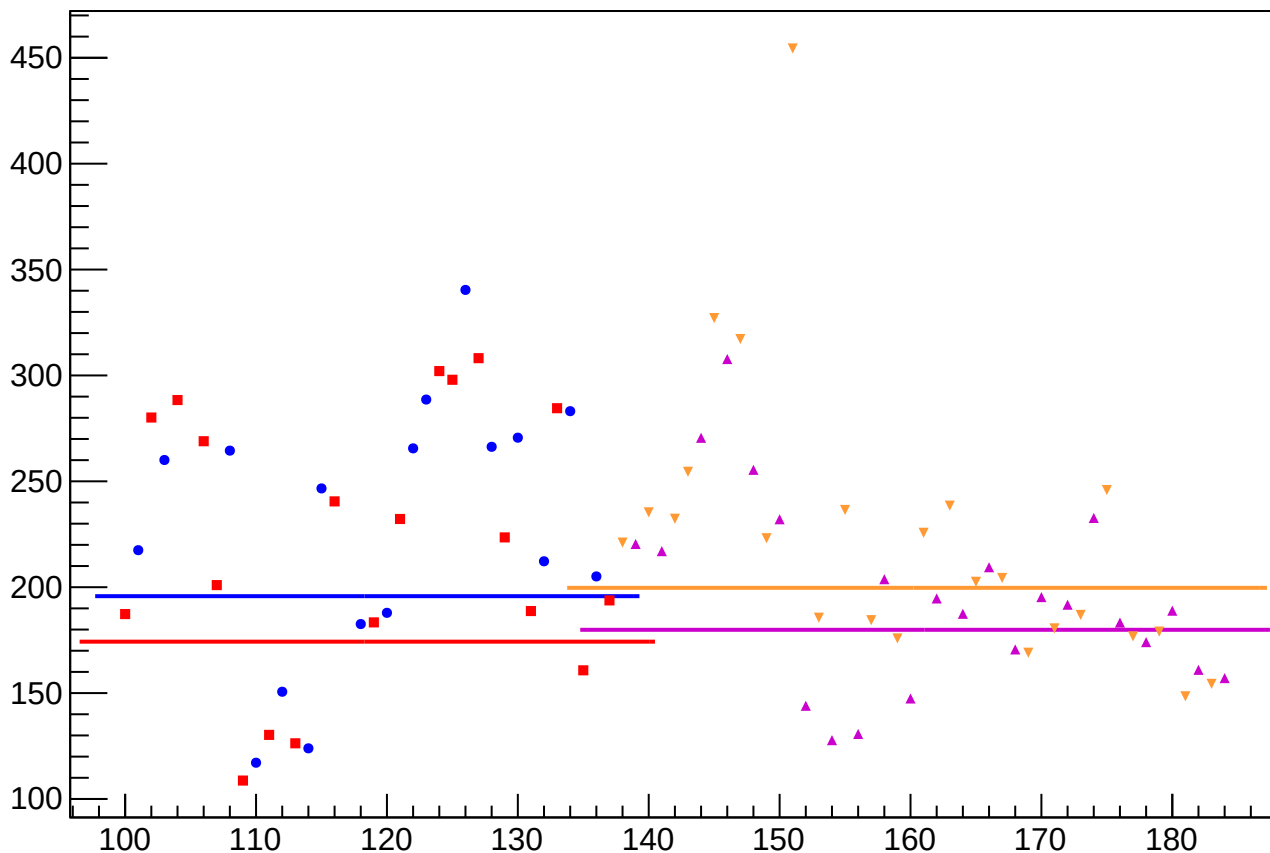
Right: 34.364 $\pm$ 53.038 χ^2 /NDF: 15.5/35

In: 43.046 $\pm$ 39.319 χ^2 /NDF:14.7/39

Out: 5.415 $\pm$ 40.146 χ^2 /NDF:14.6/42

All: 24.622 $\pm$ 28.091 χ^2 /NDF: 29.8/82

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.766 $\pm$ 0.057 χ^2 /NDF: 980914.1/16

Left Out: 199.707 $\pm$ 0.034 χ^2 /NDF:1698853.6/23

Right Out: 174.286 $\pm$ 0.050 χ^2 /NDF: 1523733.5/18

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 189.046 $\pm$ 0.023 χ^2 /NDF: 3457572.5/46

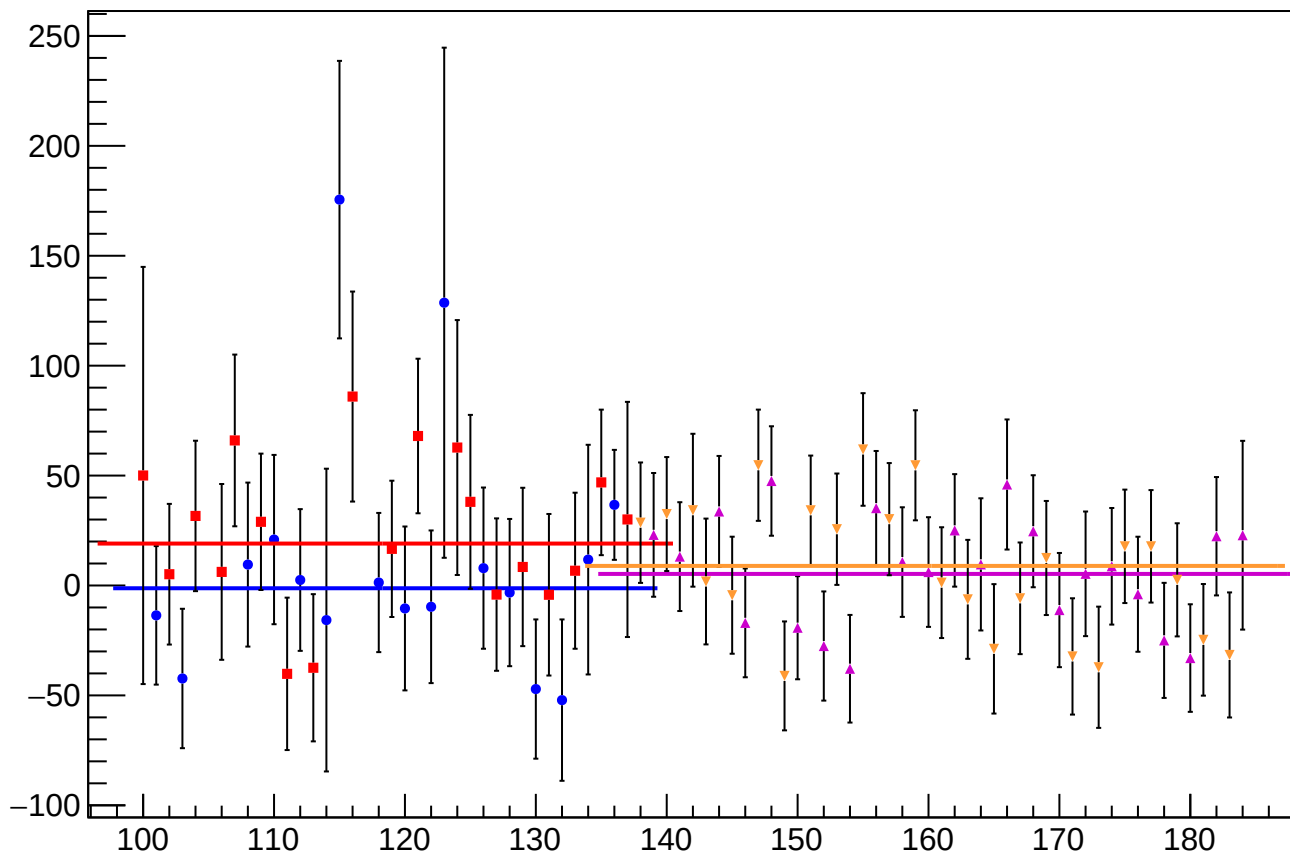
Right: 183.734 $\pm$ 0.038 χ^2 /NDF: 2585471.0/35

In: 183.725 $\pm$ 0.028 χ^2 /NDF:2621344.8/39

Out: 191.549 $\pm$ 0.028 χ^2 /NDF:3397358.7/42

All: 187.556 $\pm$ 0.020 χ^2 /NDF: 6057475.8/82

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.260 ± 8.846 $\chi^2/\text{NDF}: 18.0/16$

Left Out: 8.908 ± 5.384 $\chi^2/\text{NDF}: 31.0/23$

Right Out: 19.071 ± 8.572 $\chi^2/\text{NDF}: 14.4/18$

Left In: 5.261 ± 5.465 $\chi^2/\text{NDF}: 20.8/22$

Left: 7.112 ± 3.835 $\chi^2/\text{NDF}: 52.0/46$

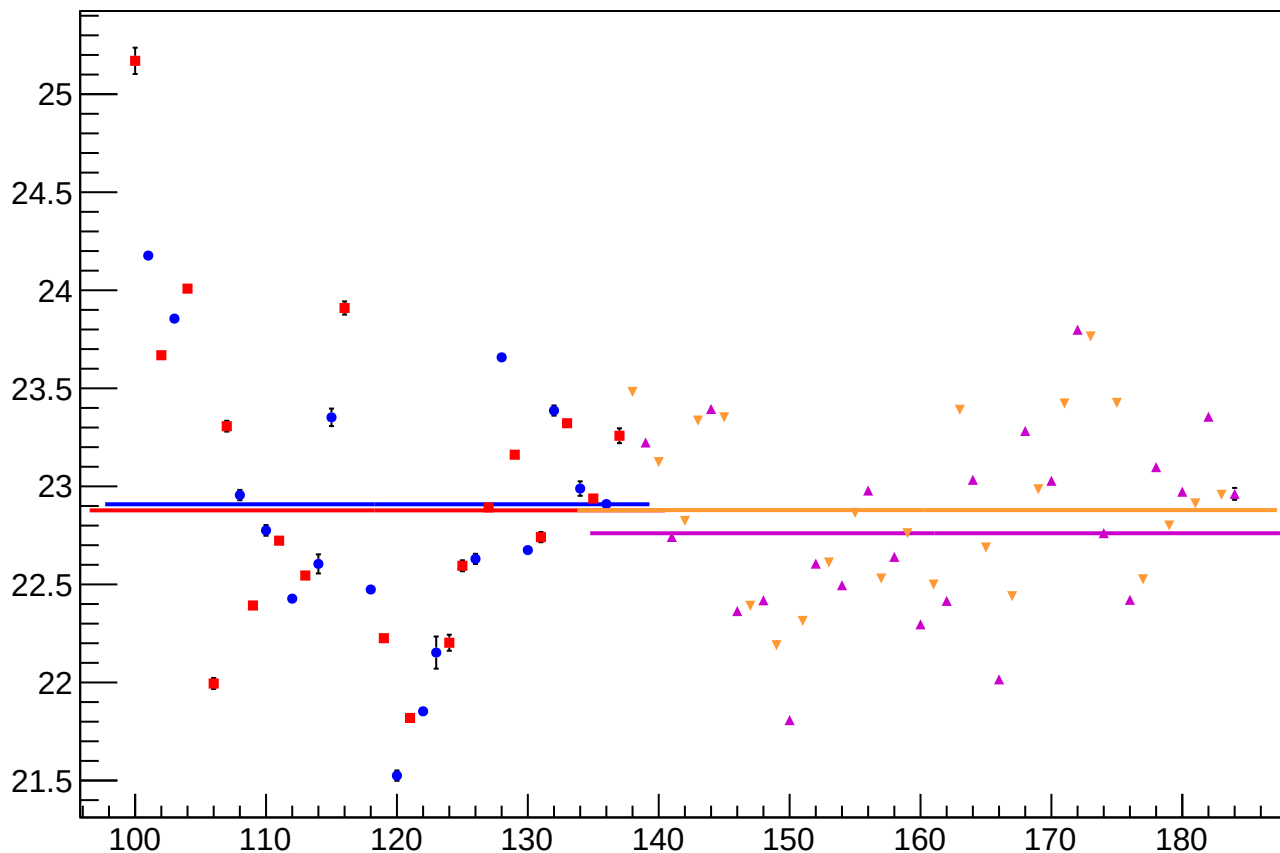
Right: 9.225 ± 6.156 $\chi^2/\text{NDF}: 35.1/35$

In: 3.459 ± 4.649 $\chi^2/\text{NDF}: 39.1/39$

Out: 11.783 ± 4.559 $\chi^2/\text{NDF}: 46.4/42$

All: 7.703 ± 3.255 $\chi^2/\text{NDF}: 87.2/82$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.909 $\pm$ 0.006 χ^2 /NDF: 12270.5/16

Left Out: 22.879 $\pm$ 0.004 χ^2 /NDF:12361.5/23

Right Out: 22.878 $\pm$ 0.006 χ^2 /NDF: 11094.4/18

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.821 $\pm$ 0.003 χ^2 /NDF: 27384.6/46

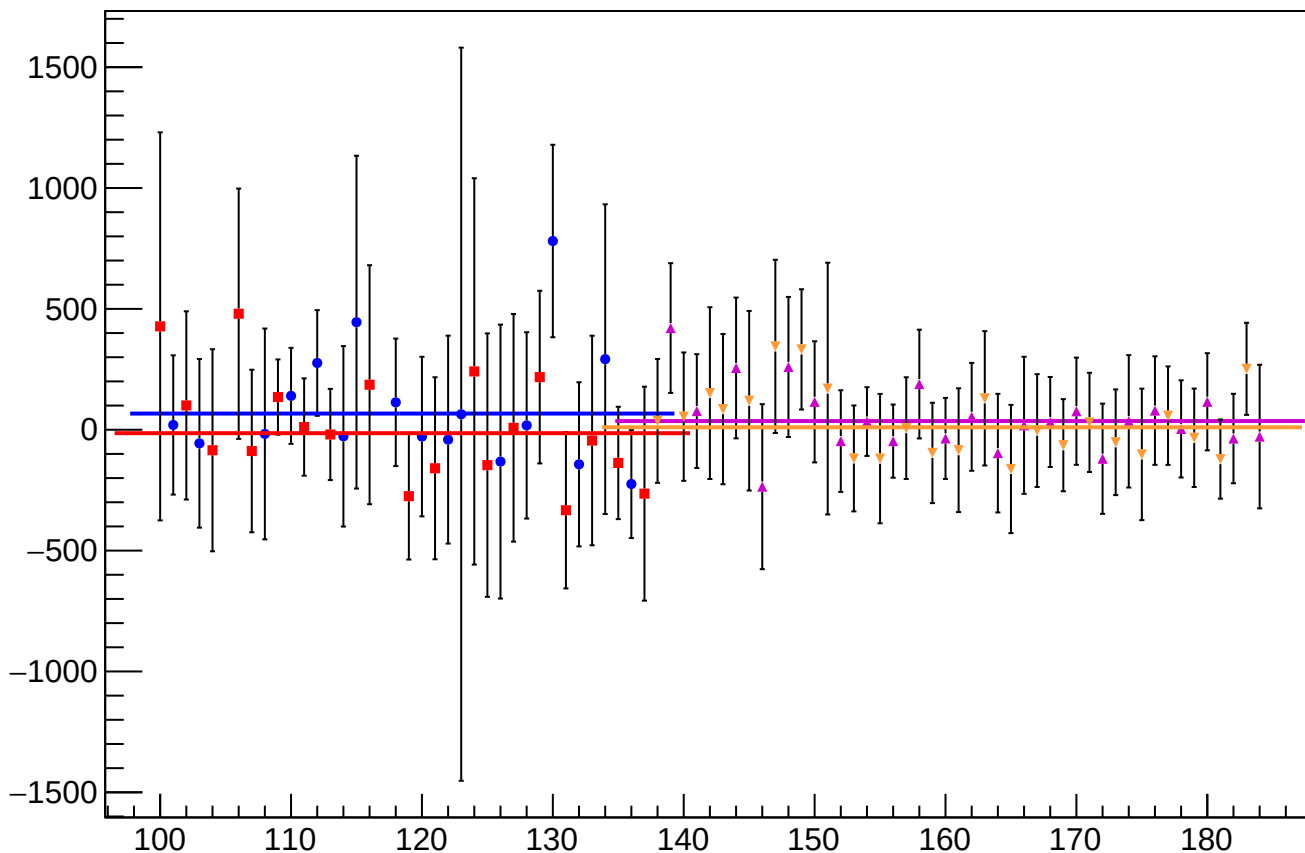
Right: 22.893 $\pm$ 0.004 χ^2 /NDF: 23377.6/35

In: 22.802 $\pm$ 0.003 χ^2 /NDF:27224.2/39

Out: 22.879 $\pm$ 0.003 χ^2 /NDF:23455.9/42

All: 22.841 $\pm$ 0.002 χ^2 /NDF: 50958.5/82

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 66.962 $\pm$ 79.625 χ^2 /NDF: 7.3/16

Left Out: 10.210 $\pm$ 48.639 χ^2 /NDF:7.3/23

Right Out: -14.253 $\pm$ 70.367 χ^2 /NDF: 5.8/18

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 24.016 $\pm$ 33.066 χ^2 /NDF: 13.8/46

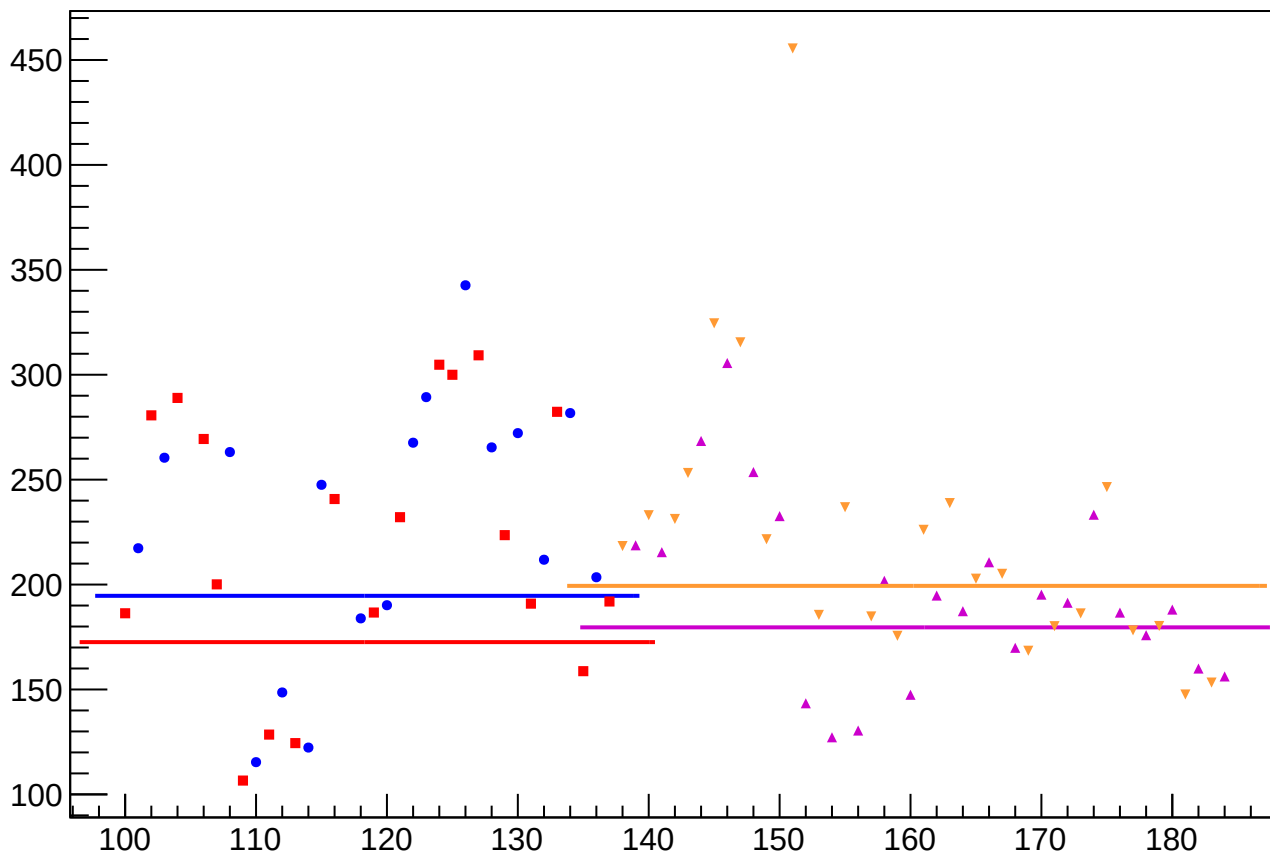
Right: 21.361 $\pm$ 52.728 χ^2 /NDF: 13.7/35

In: 43.426 $\pm$ 39.234 χ^2 /NDF:13.8/39

Out: 2.301 $\pm$ 40.011 χ^2 /NDF:13.2/42

All: 23.266 $\pm$ 28.013 χ^2 /NDF: 27.5/82

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.633+/-0.056 χ^2/NDF : 1020982.9/16

Left Out: 199.378+/-0.034 χ^2/NDF : 1695760.7/23

Right Out: 172.571+/-0.050 χ^2/NDF : 1591230.2/18

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.743+/-0.023 χ^2/NDF : 3449282.1/46

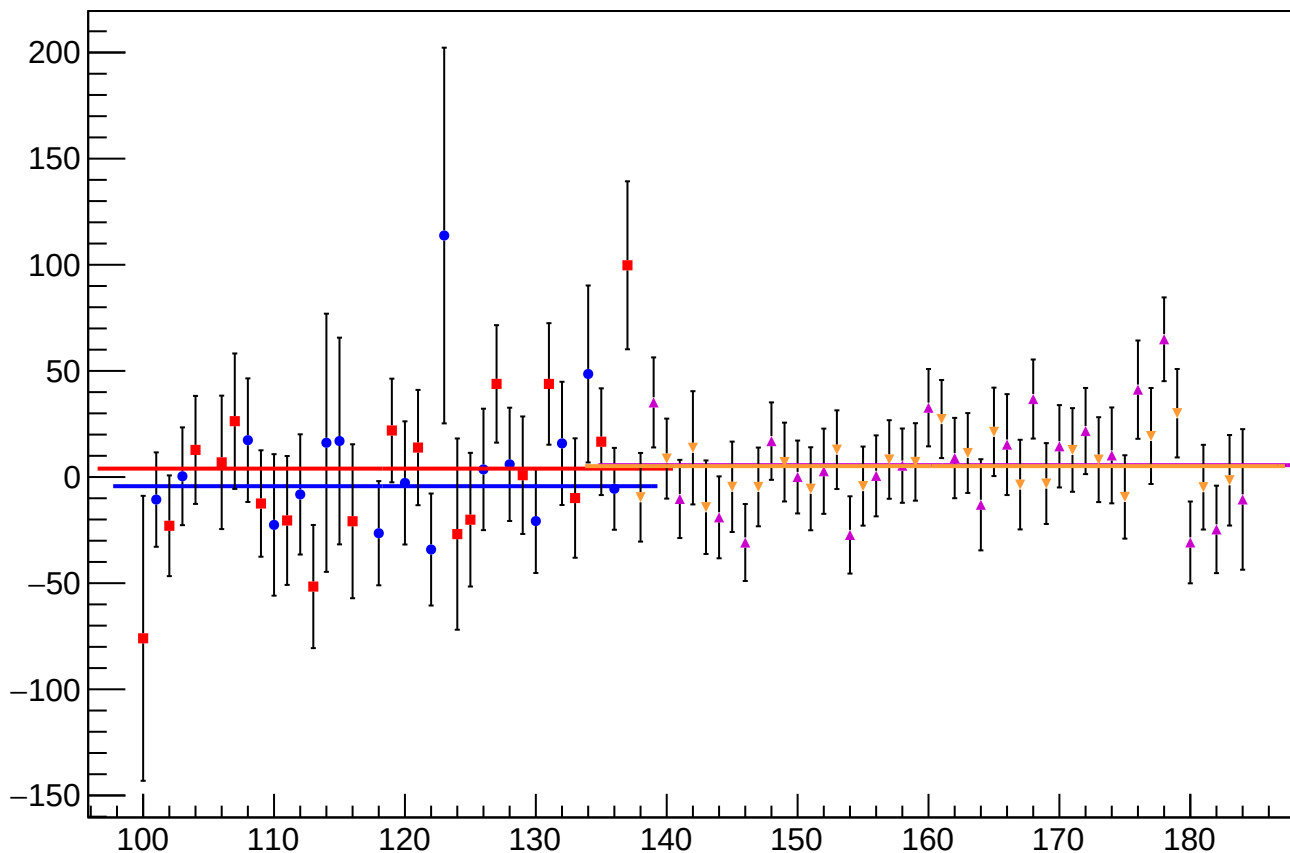
Right: 182.245+/-0.037 χ^2/NDF : 2698427.0/35

In: 183.254+/-0.028 χ^2/NDF : 2650672.4/39

Out: 190.711+/-0.028 χ^2/NDF : 3483418.2/42

All: 186.909+/-0.020 χ^2/NDF : 6169511.3/82

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.314 ± 6.887 χ^2/NDF : 7.9/16

Left Out: 5.144 ± 4.061 χ^2/NDF : 8.1/23

Right Out: 3.970 ± 6.740 χ^2/NDF : 20.7/18

Left In: 5.595 ± 4.121 χ^2/NDF : 36.4/22

Left: 5.366 ± 2.893 χ^2/NDF : 44.5/46

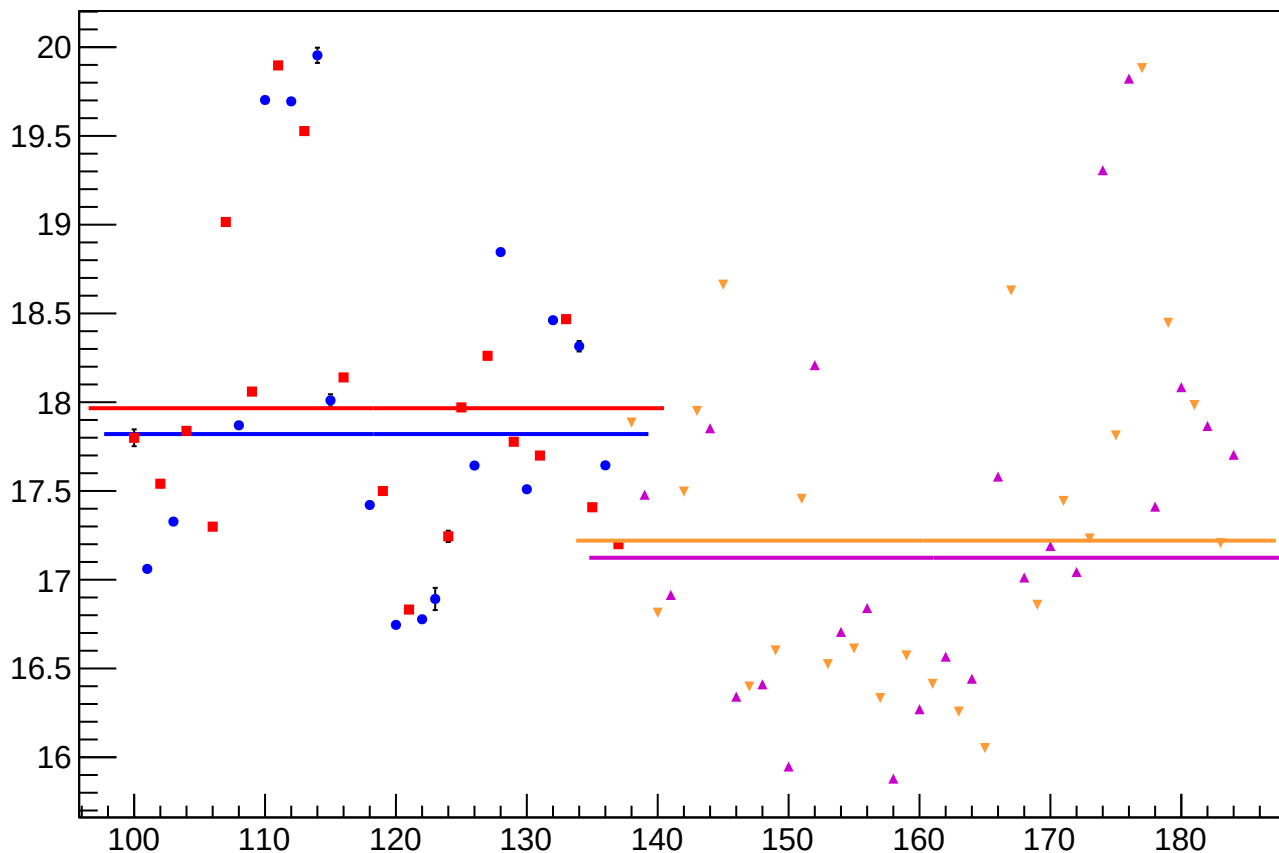
Right: -0.083 ± 4.817 χ^2/NDF : 29.3/35

In: 2.982 ± 3.536 χ^2/NDF : 45.9/39

Out: 4.832 ± 3.478 χ^2/NDF : 28.8/42

All: 3.922 ± 2.480 χ^2/NDF : 74.8/82

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.821 $\pm$ 0.005 χ^2 /NDF: 32283.6/16

Left Out: 17.220 $\pm$ 0.003 χ^2 /NDF: 97676.8/23

Right Out: 17.966 $\pm$ 0.005 χ^2 /NDF: 25320.4/18

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF: 100747.0/22

Left: 17.173 $\pm$ 0.002 χ^2 /NDF: 198980.7/46

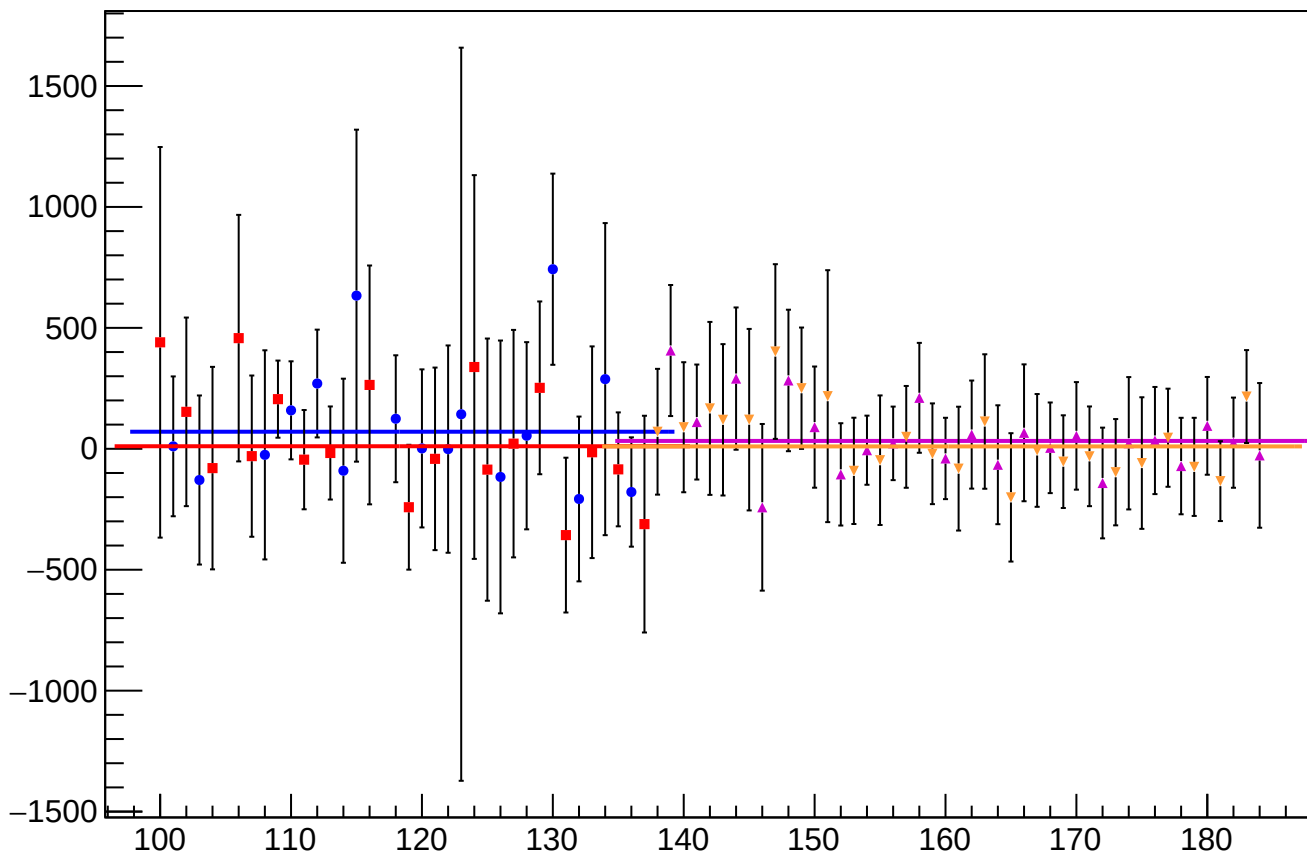
Right: 17.895 $\pm$ 0.003 χ^2 /NDF: 58060.9/35

In: 17.307 $\pm$ 0.003 χ^2 /NDF: 148106.3/39

Out: 17.419 $\pm$ 0.002 χ^2 /NDF: 140966.7/42

All: 17.364 $\pm$ 0.002 χ^2 /NDF: 290082.3/82

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.603 $\pm$ 80.168 χ^2 /NDF: 7.4/16

Left Out: 9.846 $\pm$ 48.826 χ^2 /NDF:6.6/23

Right Out: 10.558 $\pm$ 71.025 χ^2 /NDF: 6.7/18

Left In: 32.571 $\pm$ 45.248 χ^2 /NDF:6.7/22

Left: 22.072 $\pm$ 33.188 χ^2 /NDF: 13.4/46

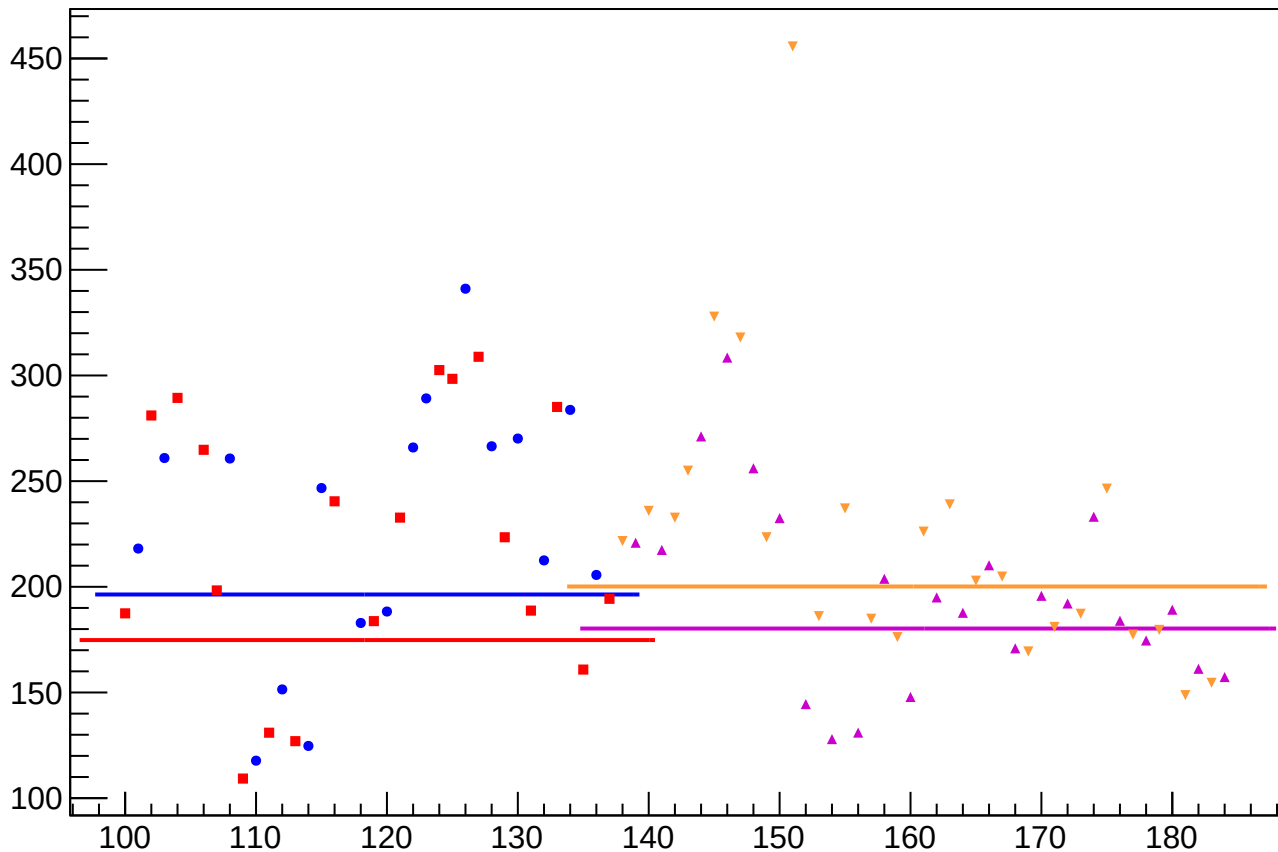
Right: 36.962 $\pm$ 53.162 χ^2 /NDF: 14.4/35

In: 41.759 $\pm$ 39.404 χ^2 /NDF:14.3/39

Out: 10.075 $\pm$ 40.236 χ^2 /NDF:13.3/42

All: 26.248 $\pm$ 28.152 χ^2 /NDF: 27.9/82

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.369 $\pm$ 0.057 χ^2 /NDF: 965962.8/16

Left Out: 200.153 $\pm$ 0.035 χ^2 /NDF:1699689.0/23

Right Out: 174.800 $\pm$ 0.050 χ^2 /NDF: 1506075.3/18

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.449 $\pm$ 0.023 χ^2 /NDF: 3458913.5/46

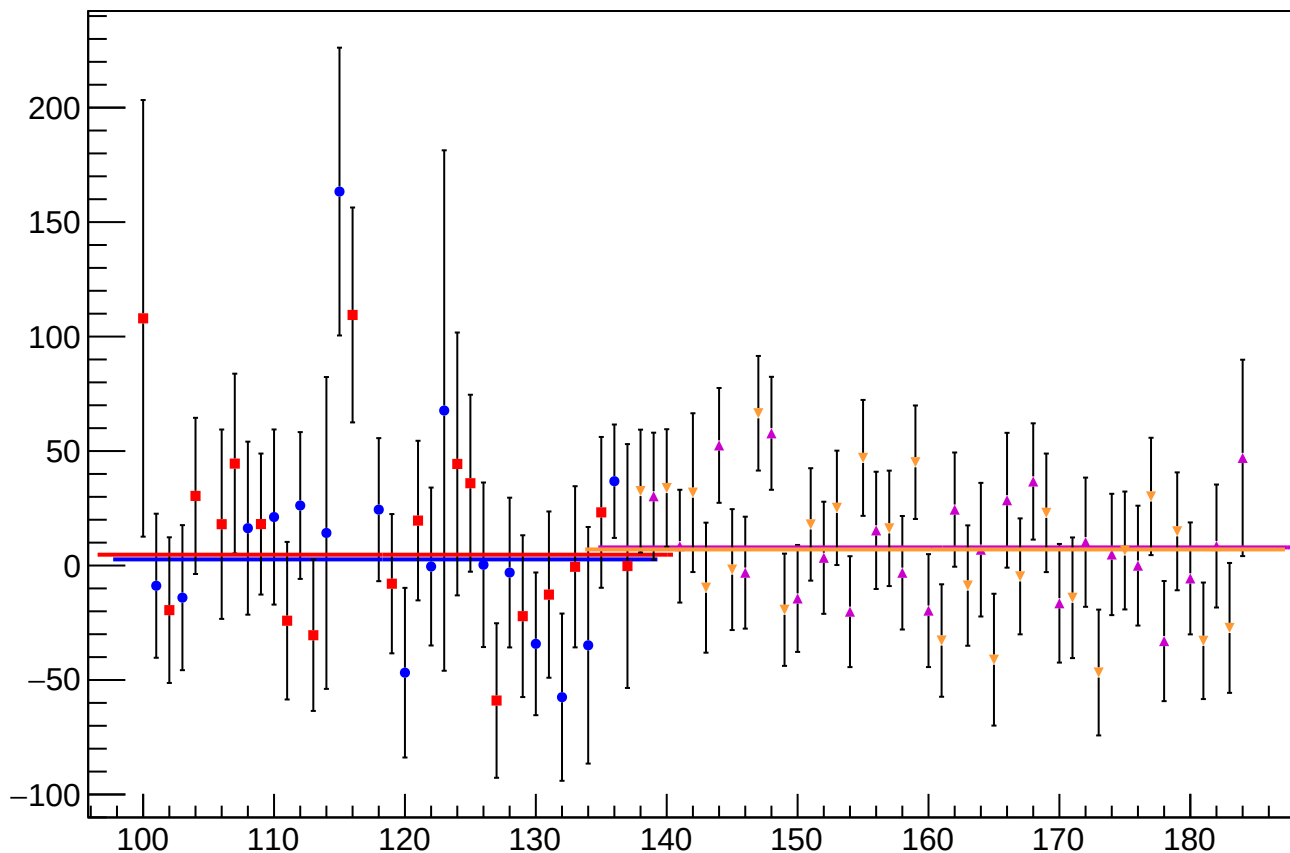
Right: 184.285 $\pm$ 0.038 χ^2 /NDF: 2553145.1/35

In: 184.149 $\pm$ 0.028 χ^2 /NDF:2607788.6/39

Out: 192.017 $\pm$ 0.028 χ^2 /NDF:3378813.8/42

All: 188.001 $\pm$ 0.020 χ^2 /NDF: 6025636.4/82

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.676 $\pm$ 8.772 χ^2 /NDF: 17.1/16

Left Out: 7.026 $\pm$ 5.334 χ^2 /NDF:31.2/23

Right Out: 4.736 $\pm$ 8.496 χ^2 /NDF: 16.6/18

Left In: 7.915 $\pm$ 5.422 χ^2 /NDF:18.7/22

Left: 7.463 $\pm$ 3.802 χ^2 /NDF: 49.9/46

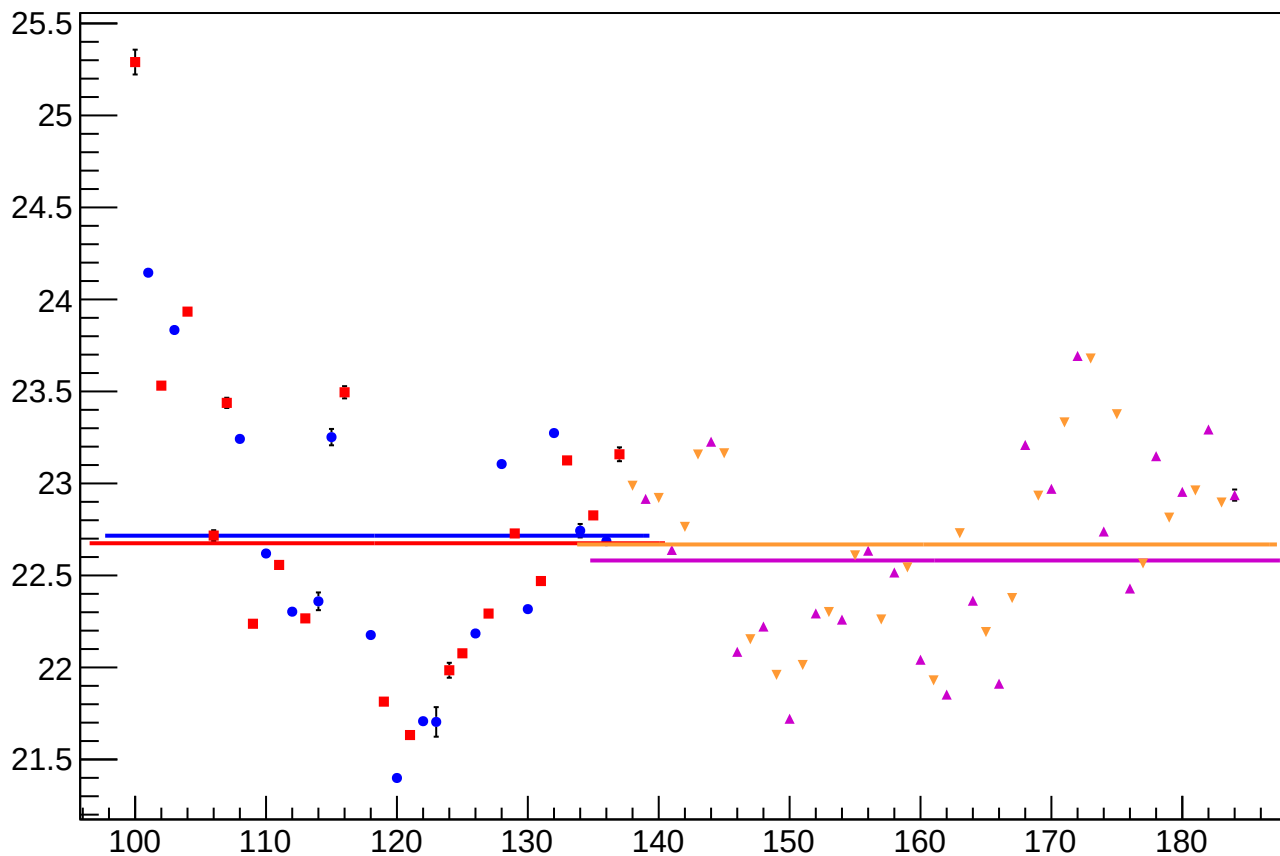
Right: 3.739 $\pm$ 6.103 χ^2 /NDF: 33.7/35

In: 6.467 $\pm$ 4.612 χ^2 /NDF:36.0/39

Out: 6.378 $\pm$ 4.517 χ^2 /NDF:47.9/42

All: 6.422 $\pm$ 3.227 χ^2 /NDF: 83.9/82

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.716 $\pm$ 0.006 χ^2 /NDF: 14058.2/16

Left Out: 22.668 $\pm$ 0.004 χ^2 /NDF:15563.4/23

Right Out: 22.675 $\pm$ 0.006 χ^2 /NDF: 12796.3/18

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

Left: 22.626 $\pm$ 0.003 χ^2 /NDF: 33730.2/46

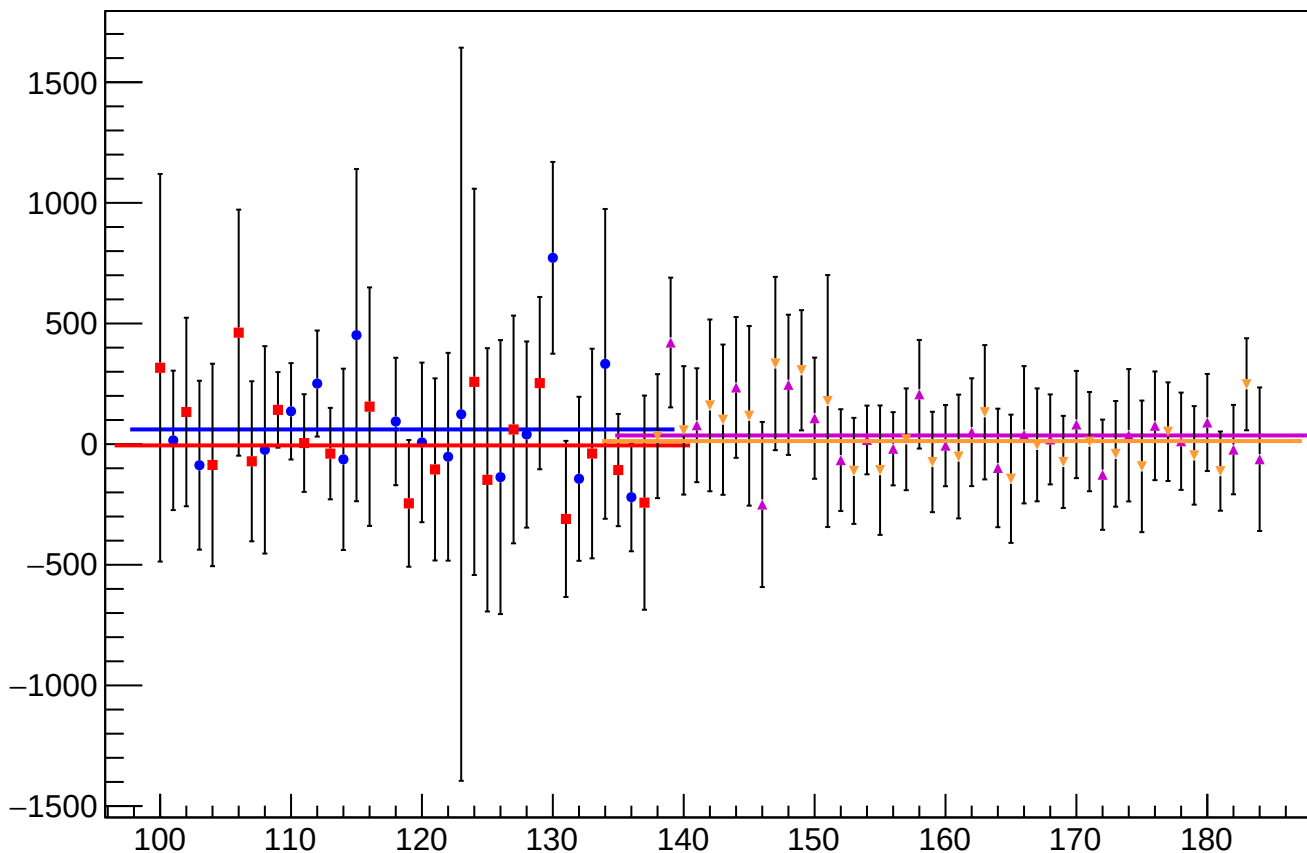
Right: 22.695 $\pm$ 0.004 χ^2 /NDF: 26877.1/35

In: 22.619 $\pm$ 0.003 χ^2 /NDF:32304.0/39

Out: 22.670 $\pm$ 0.003 χ^2 /NDF:28360.6/42

All: 22.645 $\pm$ 0.002 χ^2 /NDF: 60792.9/82

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.977 $\pm$ 79.827 χ^2 /NDF: 7.1/16

Left Out: 12.787 $\pm$ 48.749 χ^2 /NDF:6.6/23

Right Out: -5.234 $\pm$ 70.529 χ^2 /NDF: 5.2/18

Left In: 35.996 $\pm$ 45.180 χ^2 /NDF:6.1/22

Left: 25.272 $\pm$ 33.137 χ^2 /NDF: 12.8/46

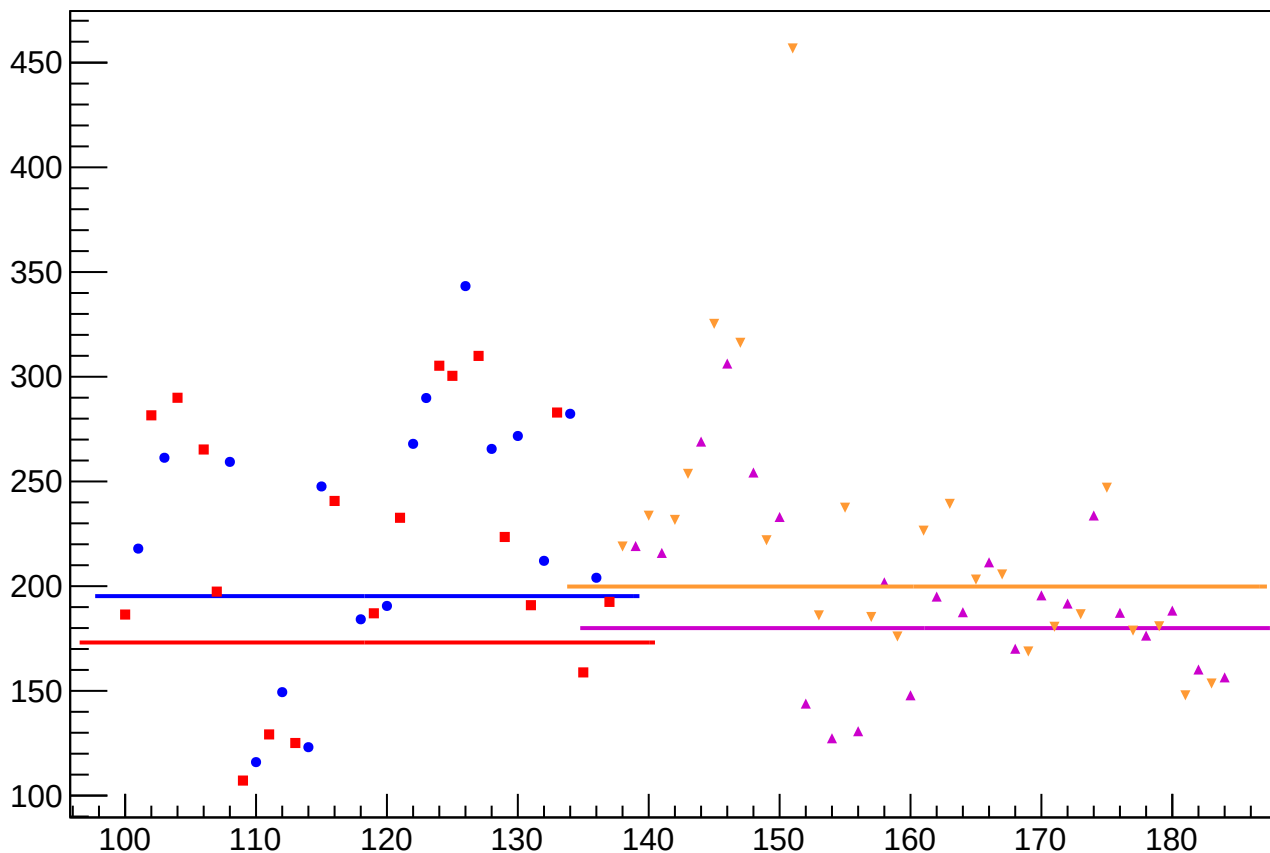
Right: 23.793 $\pm$ 52.855 χ^2 /NDF: 12.7/35

In: 42.056 $\pm$ 39.319 χ^2 /NDF:13.2/39

Out: 6.961 $\pm$ 40.102 χ^2 /NDF:11.8/42

All: 24.855 $\pm$ 28.076 χ^2 /NDF: 25.5/82

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.248 $\pm$ 0.056 χ^2 /NDF: 1005332.5/16

Left Out: 199.824 $\pm$ 0.034 χ^2 /NDF:1696644.9/23

Right Out: 173.101 $\pm$ 0.050 χ^2 /NDF: 1572691.1/18

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 189.145 $\pm$ 0.023 χ^2 /NDF: 3450944.0/46

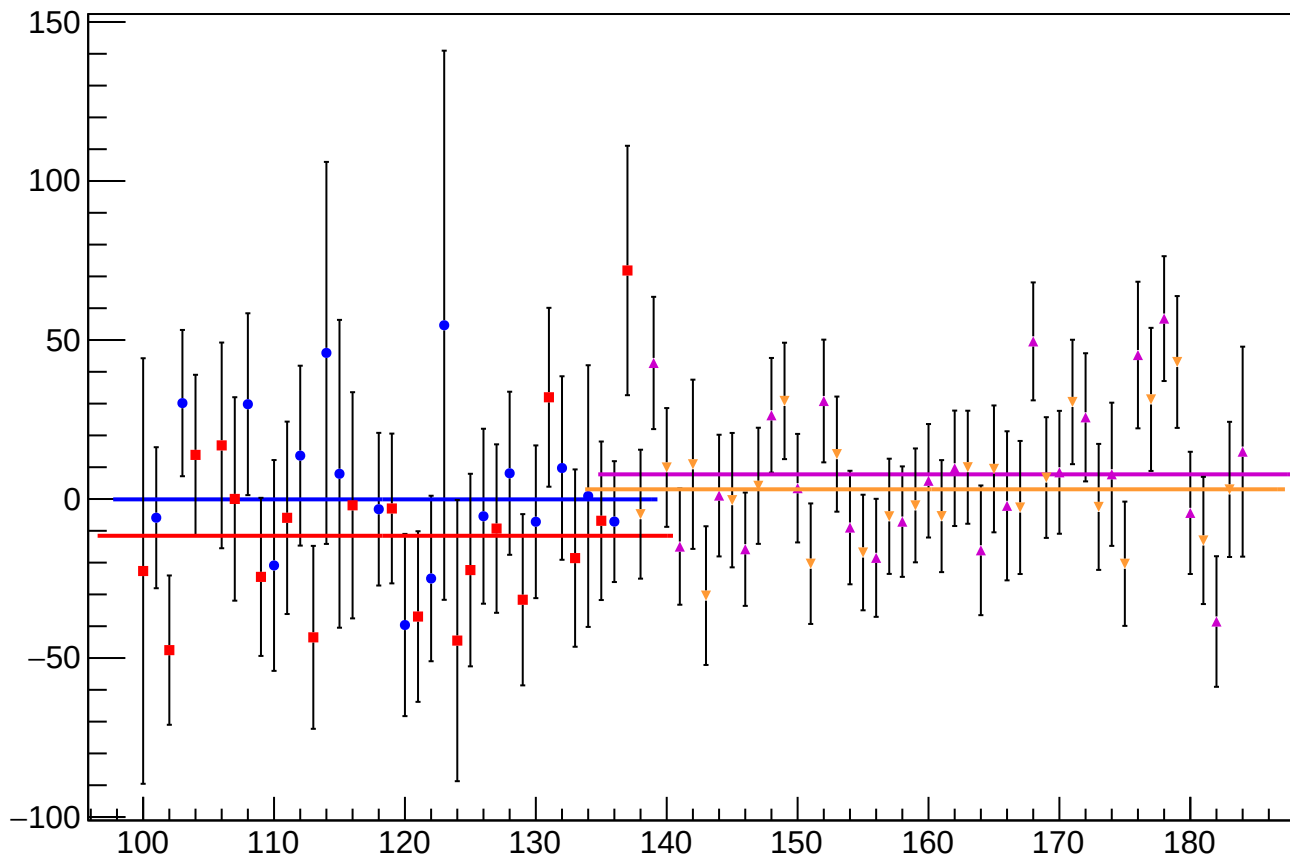
Right: 182.810 $\pm$ 0.037 χ^2 /NDF: 2664478.8/35

In: 183.678 $\pm$ 0.028 χ^2 /NDF:2636690.8/39

Out: 191.185 $\pm$ 0.028 χ^2 /NDF:3463627.5/42

All: 187.358 $\pm$ 0.020 χ^2 /NDF: 6136044.1/82

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.111 ± 6.786 χ^2/NDF : 7.9/16

Left Out: 3.055 ± 3.989 χ^2/NDF : 18.5/23

Right Out: -11.560 ± 6.642 χ^2/NDF : 15.2/18

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.364 ± 2.846 χ^2/NDF : 53.4/46

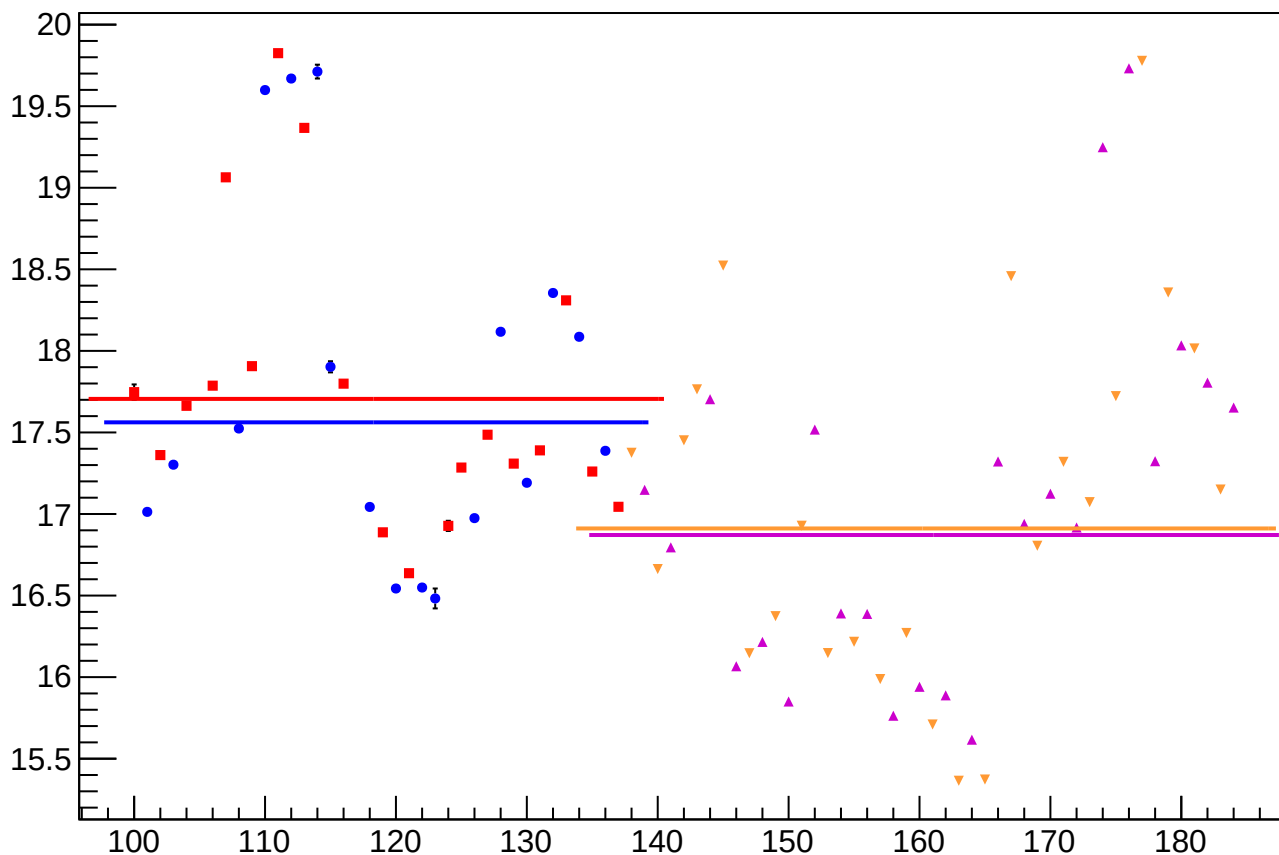
Right: -5.959 ± 4.747 χ^2/NDF : 24.5/35

In: 5.682 ± 3.485 χ^2/NDF : 43.1/39

Out: -0.820 ± 3.420 χ^2/NDF : 37.3/42

All: 2.370 ± 2.441 χ^2/NDF : 82.1/82

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.562 $\pm$ 0.005 χ^2 /NDF: 33937.0/16

Left Out: 16.911 $\pm$ 0.003 χ^2 /NDF:136755.9/23

Right Out: 17.706 $\pm$ 0.005 χ^2 /NDF: 30251.5/18

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.892 $\pm$ 0.002 χ^2 /NDF: 254849.0/46

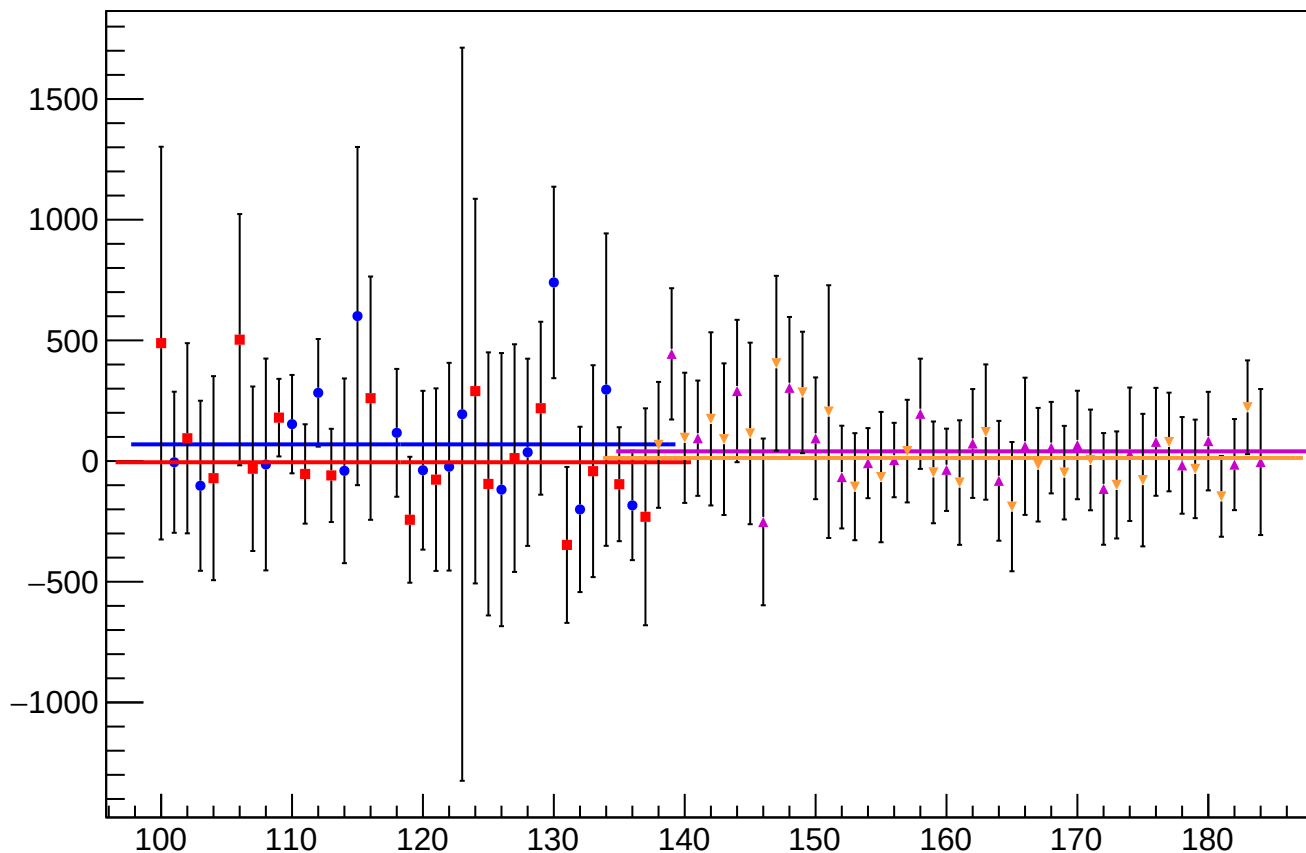
Right: 17.635 $\pm$ 0.003 χ^2 /NDF: 64646.6/35

In: 17.053 $\pm$ 0.002 χ^2 /NDF:167184.9/39

Out: 17.122 $\pm$ 0.002 χ^2 /NDF:188024.1/42

All: 17.088 $\pm$ 0.002 χ^2 /NDF: 355603.6/82

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.218 $\pm$ 80.633 χ^2 /NDF: 7.2/16

Left Out: 13.002 $\pm$ 49.246 χ^2 /NDF: 7.0/23

Right Out: -4.849 $\pm$ 71.521 χ^2 /NDF: 6.1/18

Left In: 40.355 $\pm$ 45.689 χ^2 /NDF: 6.6/22

Left: 27.702 $\pm$ 33.494 χ^2 /NDF: 13.8/46

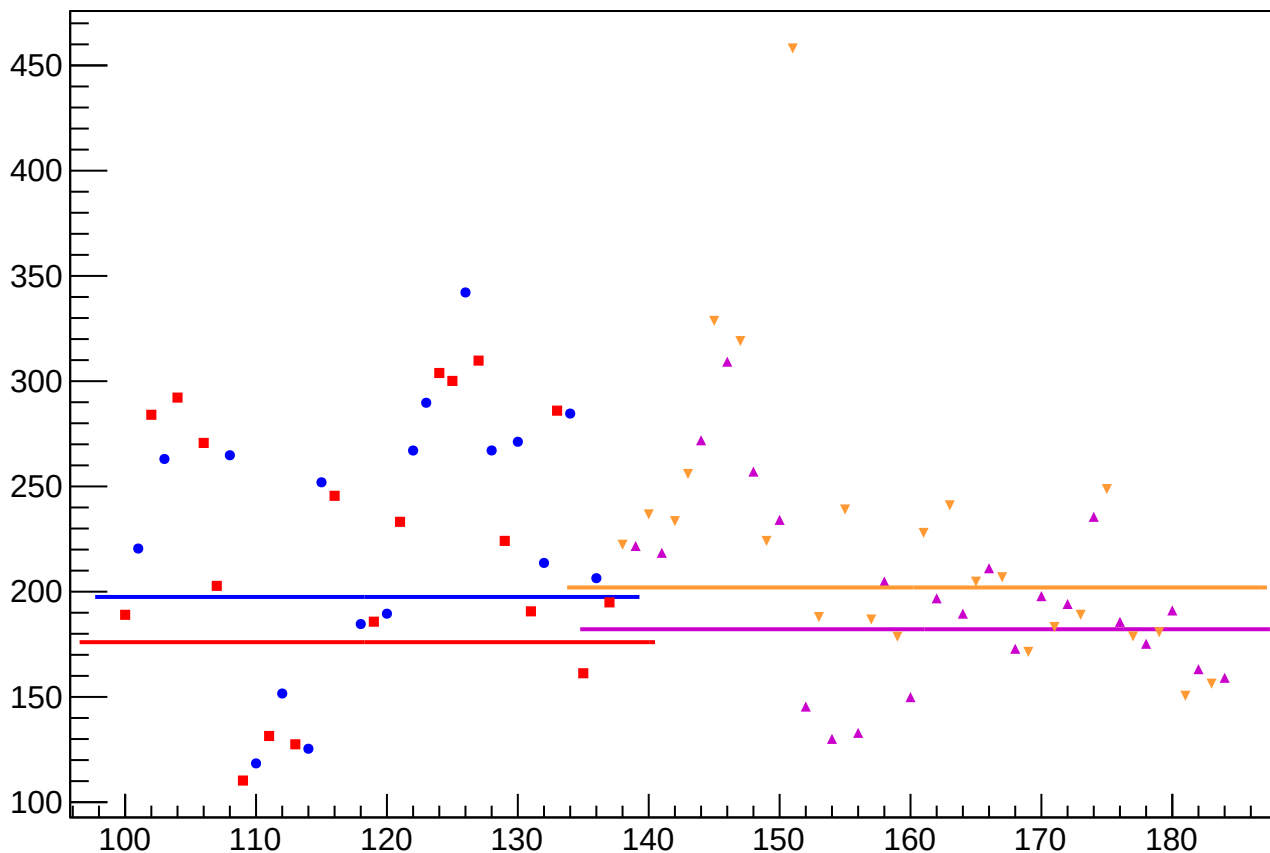
Right: 27.765 $\pm$ 53.506 χ^2 /NDF: 13.8/35

In: 47.370 $\pm$ 39.751 χ^2 /NDF: 14.0/39

Out: 7.261 $\pm$ 40.561 χ^2 /NDF: 13.2/42

All: 27.720 $\pm$ 28.390 χ^2 /NDF: 27.6/82

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.498 $\pm$ 0.057 χ^2 /NDF: 970879.0/16

Left Out: 201.995 $\pm$ 0.035 χ^2 /NDF:1668157.5/23

Right Out: 176.016 $\pm$ 0.051 χ^2 /NDF: 1514778.3/18

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

Left: 191.335 $\pm$ 0.024 χ^2 /NDF: 3378484.8/46

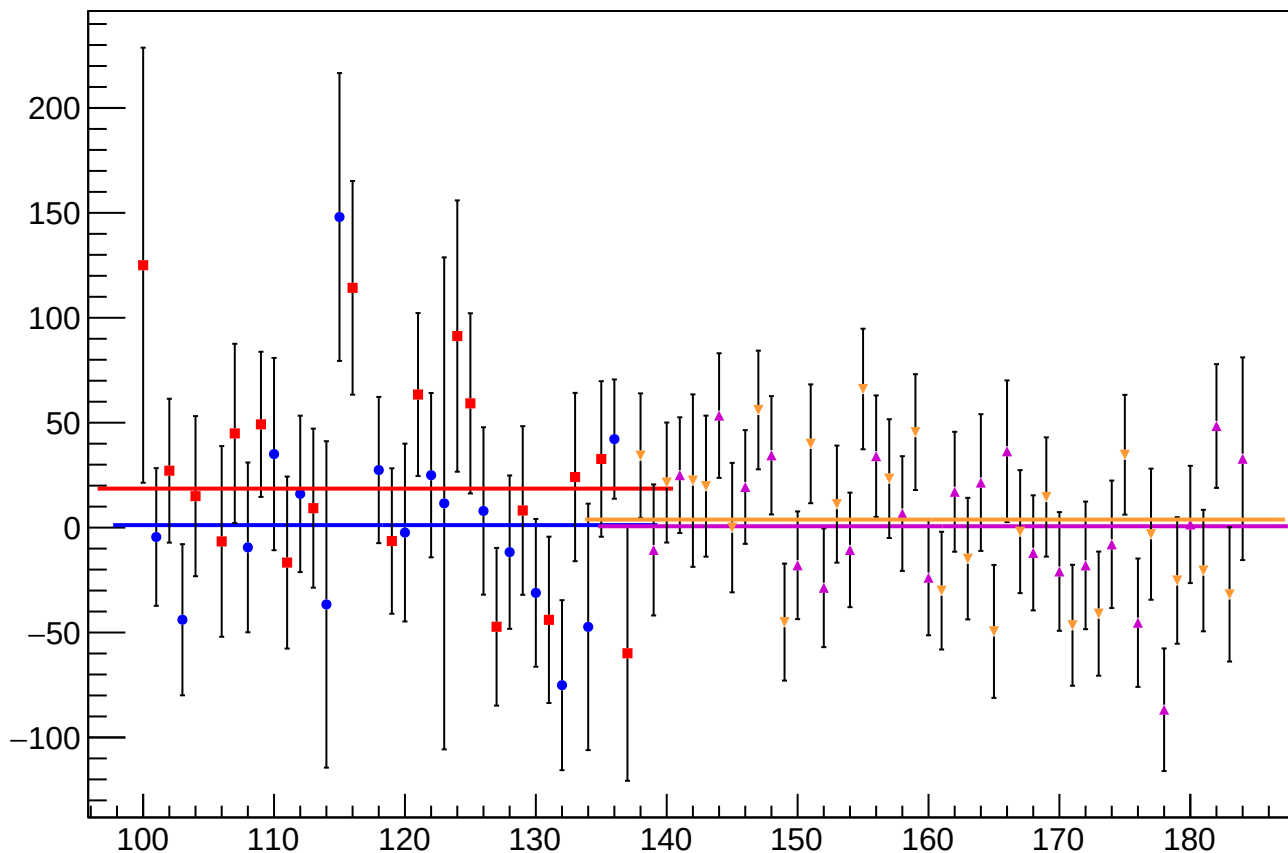
Right: 185.475 $\pm$ 0.038 χ^2 /NDF: 2565103.3/35

In: 185.886 $\pm$ 0.028 χ^2 /NDF:2561590.8/39

Out: 193.640 $\pm$ 0.029 χ^2 /NDF:3361951.9/42

All: 189.685 $\pm$ 0.020 χ^2 /NDF: 5960821.7/82

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.189 $\pm$ 9.848 χ^2 /NDF: 15.4/16

Left Out: 3.834 $\pm$ 6.035 χ^2 /NDF:31.8/23

Right Out: 18.582 $\pm$ 9.518 χ^2 /NDF: 18.4/18

Left In: 0.641 $\pm$ 6.091 χ^2 /NDF:27.3/22

Left: 2.252 $\pm$ 4.287 χ^2 /NDF: 59.3/46

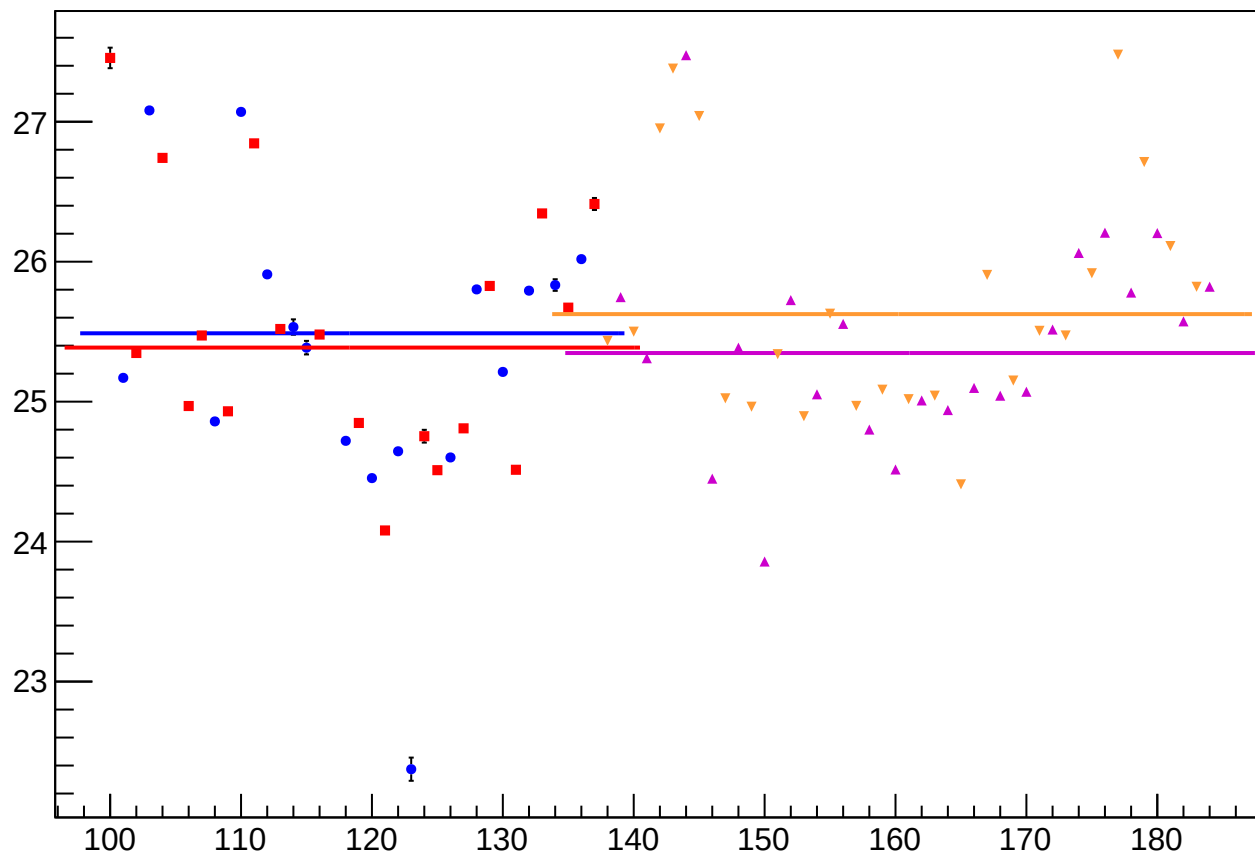
Right: 10.182 $\pm$ 6.844 χ^2 /NDF: 35.5/35

In: 0.793 $\pm$ 5.180 χ^2 /NDF:42.8/39

Out: 8.063 $\pm$ 5.097 χ^2 /NDF:51.9/42

All: 4.487 $\pm$ 3.633 χ^2 /NDF: 95.7/82

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.488 $\pm$ 0.007 χ^2 /NDF: 13867.7/16

Left Out: 25.625 $\pm$ 0.004 χ^2 /NDF: 33320.8/23

Right Out: 25.386 $\pm$ 0.007 χ^2 /NDF: 13699.1/18

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF: 29389.5/22

Left: 25.488 $\pm$ 0.003 χ^2 /NDF: 64812.9/46

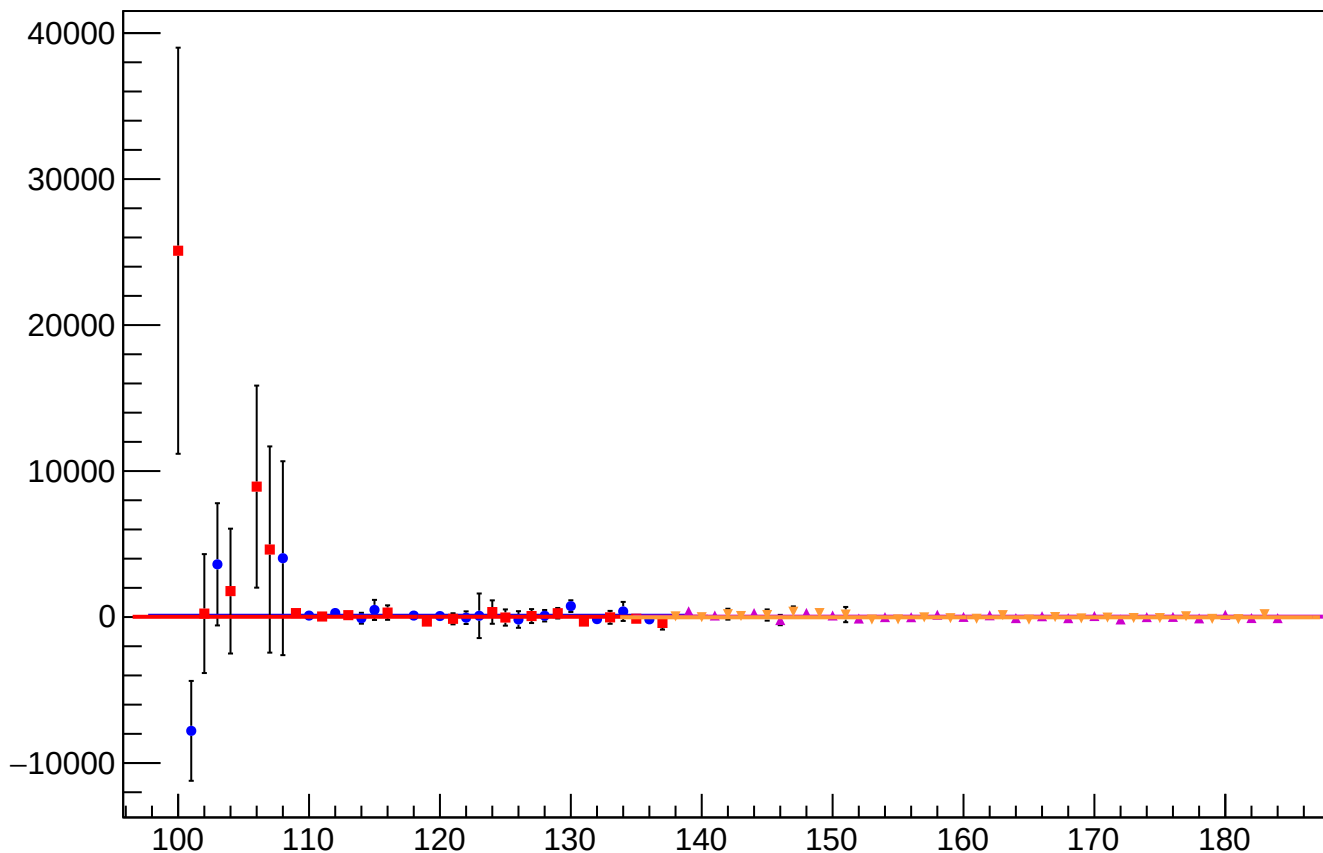
Right: 25.436 $\pm$ 0.005 χ^2 /NDF: 27678.0/35

In: 25.386 $\pm$ 0.004 χ^2 /NDF: 43553.7/39

Out: 25.557 $\pm$ 0.004 χ^2 /NDF: 47920.6/42

All: 25.473 $\pm$ 0.003 χ^2 /NDF: 92574.2/82

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.231+/-87.920 χ^2/NDF : 12.5/16

Left Out: -17.604+/-48.942 χ^2/NDF : 7.2/23

Right Out: 18.864+/-80.923 χ^2/NDF : 12.0/18

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 6.132+/-33.518 χ^2/NDF : 14.8/46

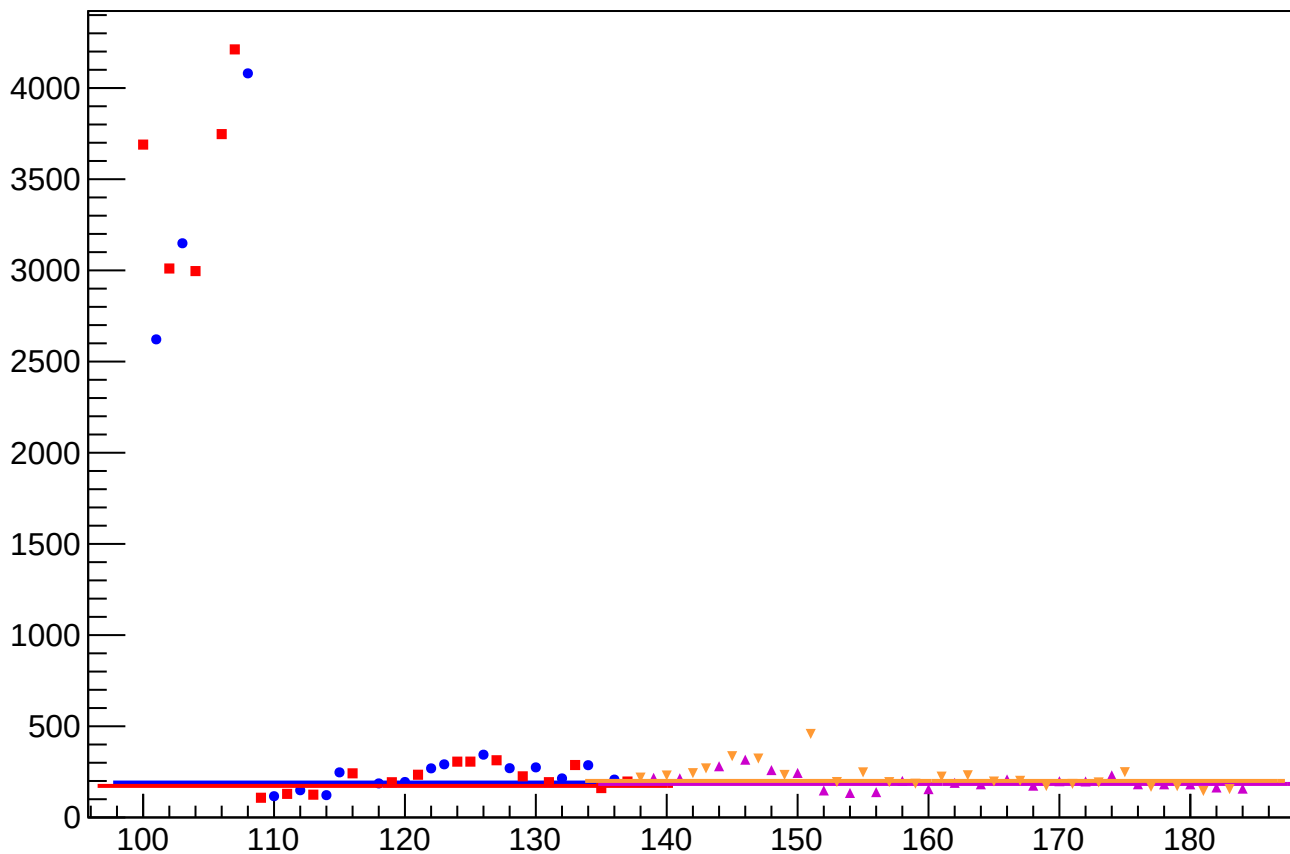
Right: 51.137+/-59.541 χ^2/NDF : 24.8/35

In: 40.450+/-40.757 χ^2/NDF : 20.1/39

Out: -7.837+/-41.879 χ^2/NDF : 19.3/42

All: 16.962+/-29.208 χ^2/NDF : 40.1/82

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.422+/-0.062 χ^2/NDF : 3573556.6/16

Left Out: 200.372+/-0.035 χ^2/NDF :1818451.8/23

Right Out: 173.068+/-0.057 χ^2/NDF : 4201509.7/18

Left In: 183.805+/-0.033 χ^2/NDF :1412869.6/22

Left: 191.575+/-0.024 χ^2/NDF : 3352999.9/46

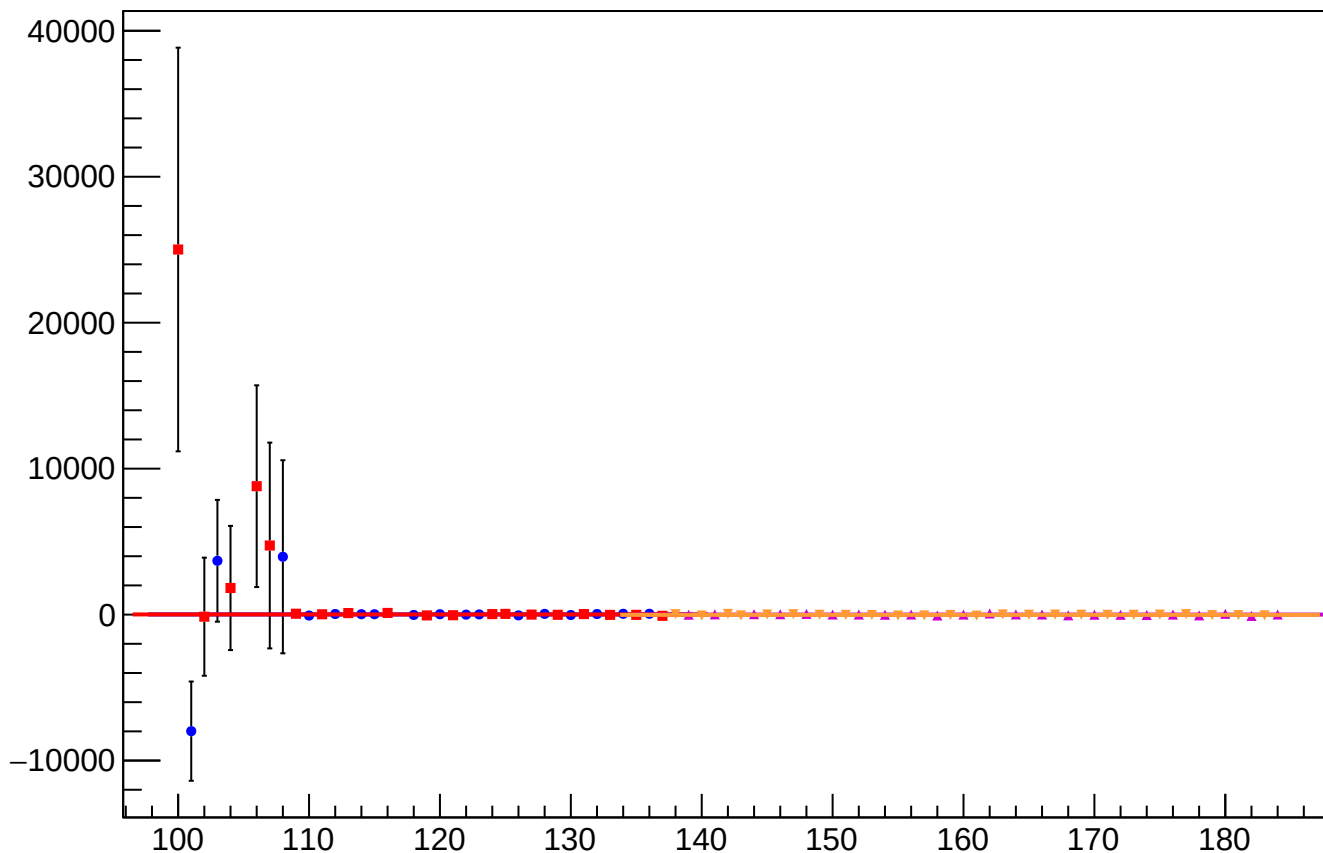
Right: 181.486+/-0.042 χ^2/NDF : 7822251.9/35

In: 185.442+/-0.029 χ^2/NDF :4998213.0/39

Out: 193.059+/-0.030 χ^2/NDF :6186662.4/42

All: 189.147+/-0.021 χ^2/NDF : 11218858.0/82

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.464 $\pm$ 12.227 χ^2 /NDF: 18.3/16

Left Out: -17.226 $\pm$ 6.764 χ^2 /NDF:20.7/23

Right Out: 11.883 $\pm$ 12.264 χ^2 /NDF: 23.9/18

Left In: 1.267 $\pm$ 6.908 χ^2 /NDF:32.0/22

Left: -8.174 $\pm$ 4.833 χ^2 /NDF: 56.4/46

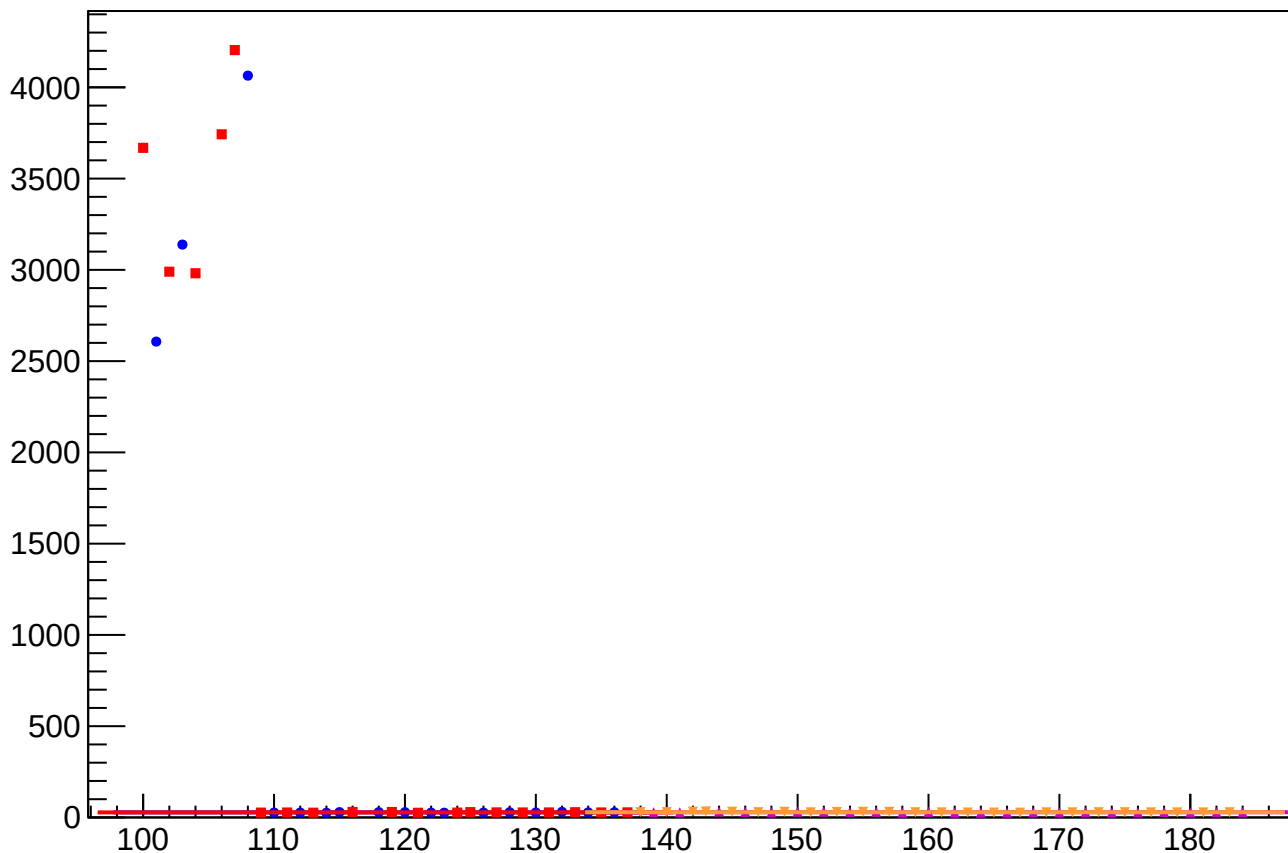
Right: 11.673 $\pm$ 8.659 χ^2 /NDF: 42.1/35

In: 3.735 $\pm$ 6.014 χ^2 /NDF:50.8/39

Out: -10.437 $\pm$ 5.923 χ^2 /NDF:48.9/42

All: -3.460 $\pm$ 4.220 χ^2 /NDF: 102.5/82

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.858+/-0.009 χ^2/NDF : 3026949.6/16

Left Out: 28.674+/-0.005 χ^2/NDF :104973.8/23

Right Out: 27.714+/-0.009 χ^2/NDF : 3476894.0/18

Left In: 28.677+/-0.005 χ^2/NDF :123814.4/22

Left: 28.675+/-0.003 χ^2/NDF : 228788.3/46

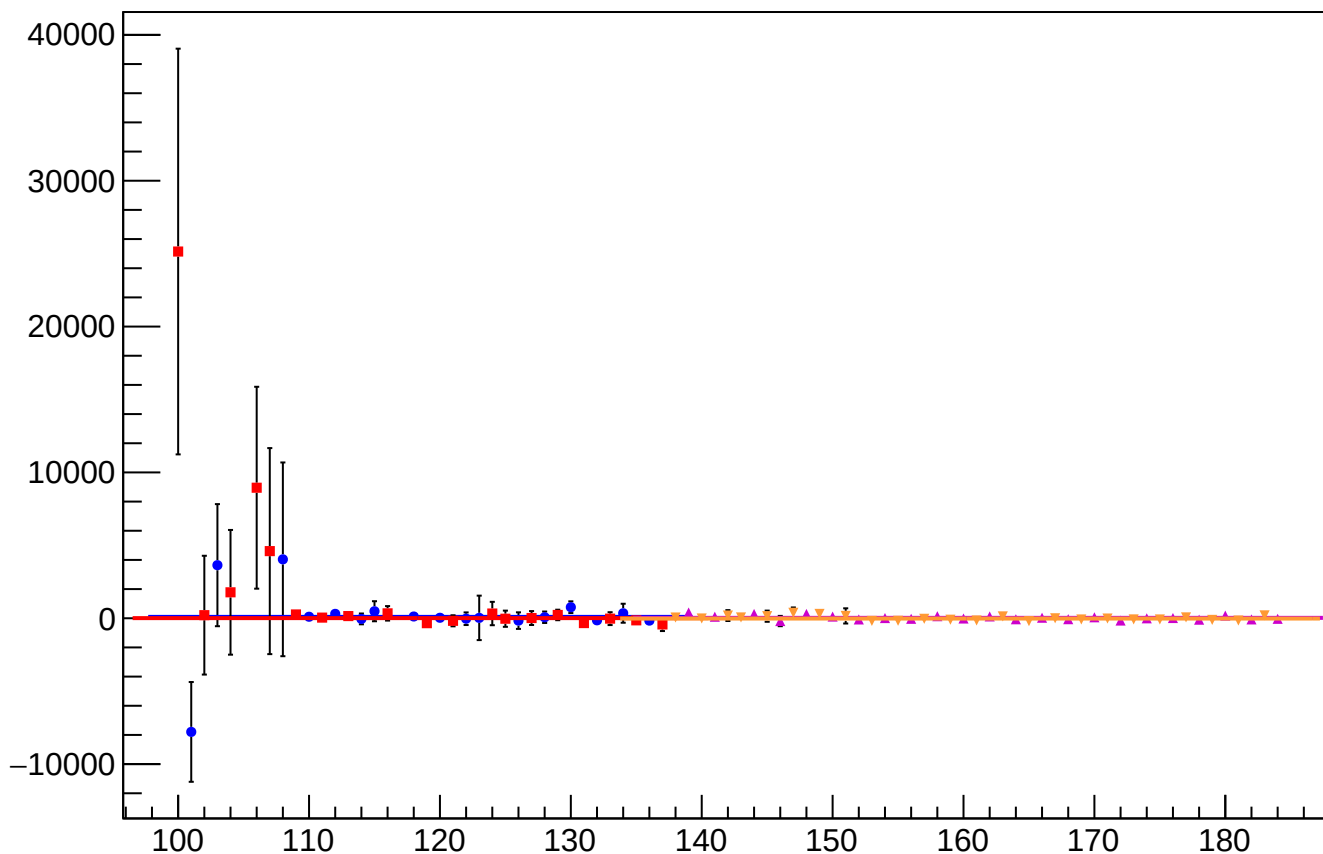
Right: 27.786+/-0.006 χ^2/NDF : 6503982.3/35

In: 28.479+/-0.004 χ^2/NDF :3157563.4/39

Out: 28.450+/-0.004 χ^2/NDF :3591269.9/42

All: 28.464+/-0.003 χ^2/NDF : 6748856.2/82

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 93.805+/-87.646 χ^2/NDF : 12.7/16

Left Out: -20.107+/-48.833 χ^2/NDF : 8.0/23

Right Out: 9.116+/-80.662 χ^2/NDF : 12.8/18

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 5.052+/-33.448 χ^2/NDF : 15.9/46

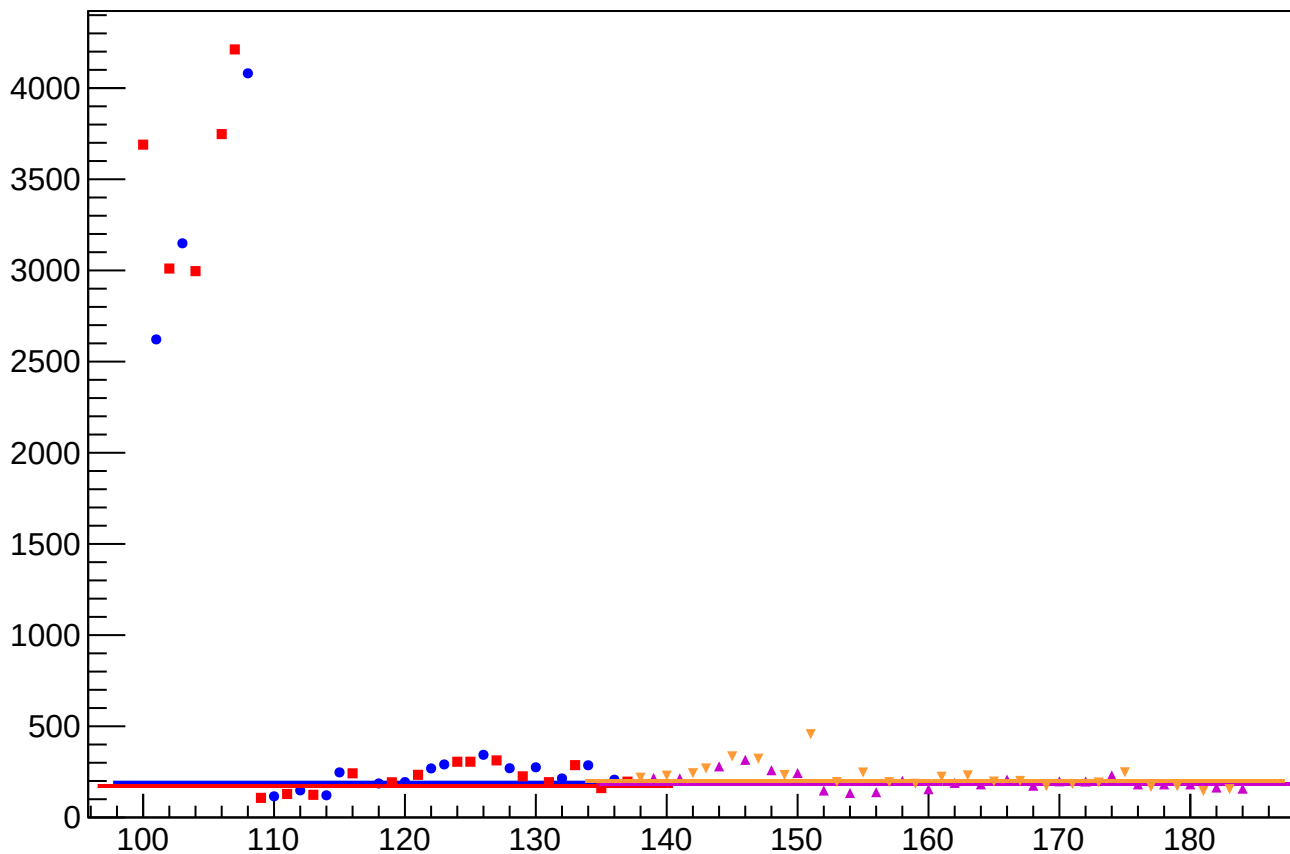
Right: 47.952+/-59.352 χ^2/NDF : 26.0/35

In: 41.607+/-40.666 χ^2/NDF : 20.6/39

Out: -12.269+/-41.774 χ^2/NDF : 20.8/42

All: 15.392+/-29.139 χ^2/NDF : 42.3/82

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.712 $\pm$ 0.062 χ^2 /NDF: 3585407.6/16

Left Out: 199.925 $\pm$ 0.035 χ^2 /NDF:1818408.8/23

Right Out: 172.402 $\pm$ 0.057 χ^2 /NDF: 4212674.3/18

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF:1412341.8/22

Left: 191.175 $\pm$ 0.024 χ^2 /NDF: 3351724.8/46

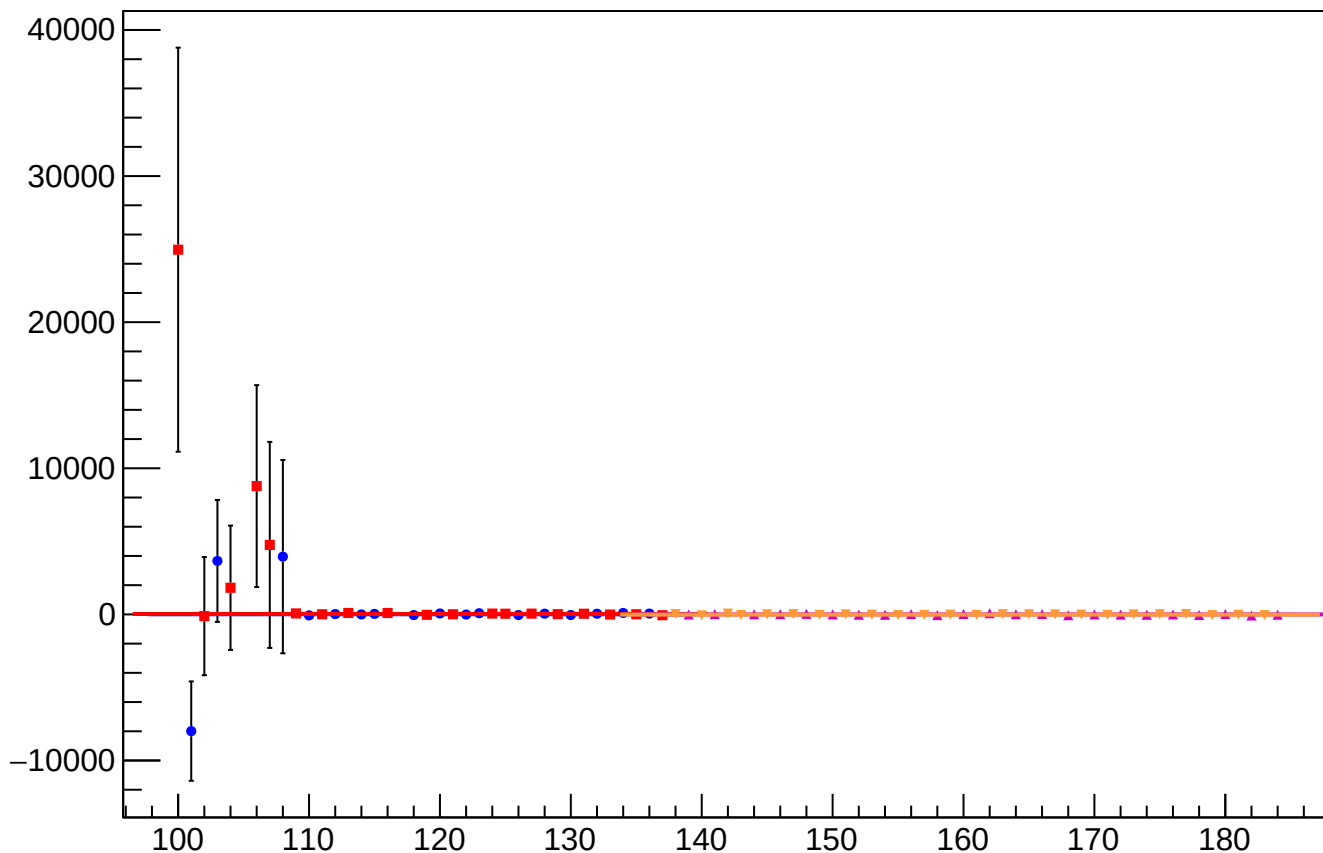
Right: 180.799 $\pm$ 0.042 χ^2 /NDF: 7845341.0/35

In: 185.007 $\pm$ 0.029 χ^2 /NDF:5008550.1/39

Out: 192.543 $\pm$ 0.030 χ^2 /NDF:6201484.6/42

All: 188.674 $\pm$ 0.021 χ^2 /NDF: 11243457.6/82

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.486+/-12.310 χ^2/NDF : 22.5/16

Left Out: -15.039+/-6.794 χ^2/NDF :15.8/23

Right Out: 28.414+/-12.365 χ^2/NDF : 16.2/18

Left In: -0.498+/-6.937 χ^2/NDF :26.1/22

Left: -7.919+/-4.854 χ^2/NDF : 44.1/46

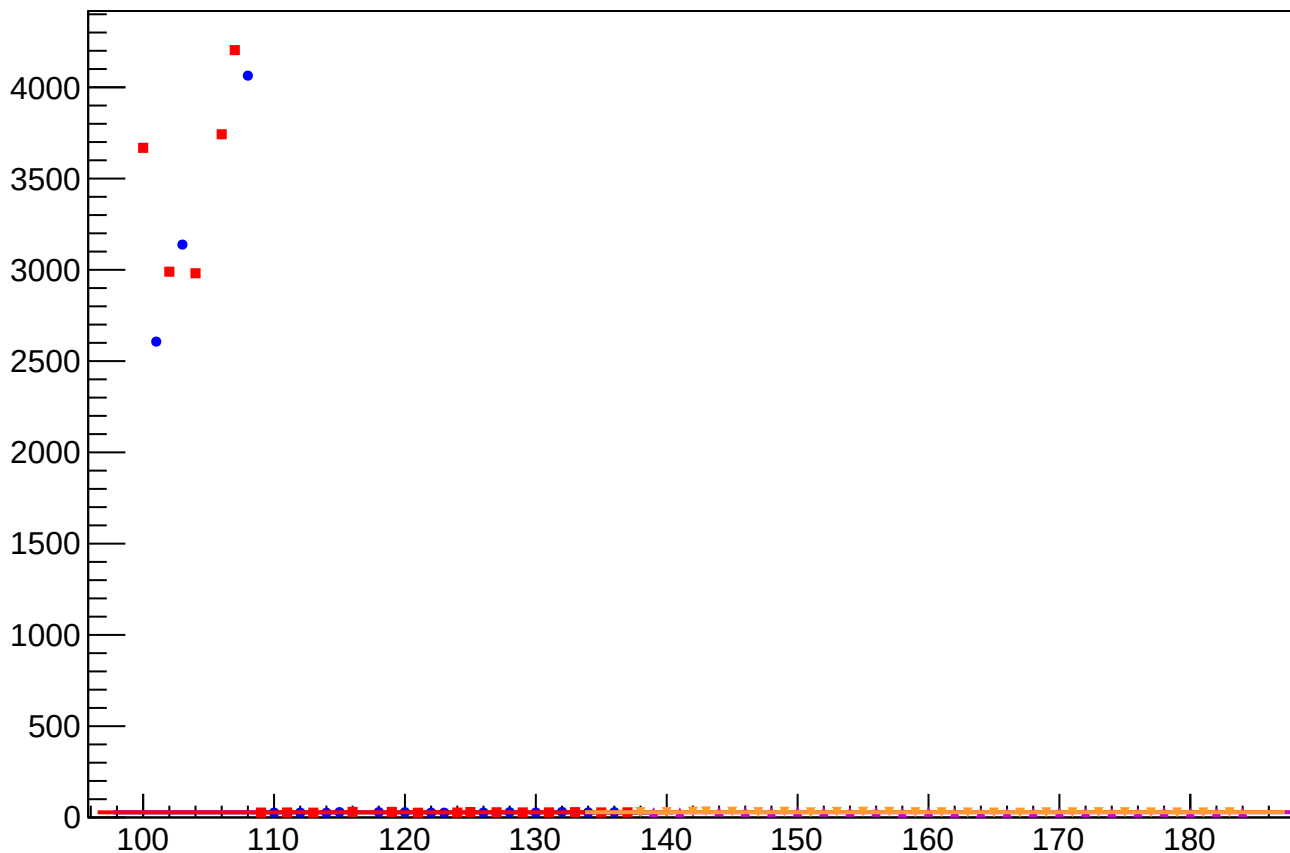
Right: 18.908+/-8.724 χ^2/NDF : 39.9/35

In: 1.909+/-6.043 χ^2/NDF :49.1/39

Out: -4.962+/-5.954 χ^2/NDF :41.5/42

All: -1.577+/-4.241 χ^2/NDF : 91.3/82

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.041 $\pm$ 0.009 χ^2 /NDF: 3027315.2/16

Left Out: 28.796 $\pm$ 0.005 χ^2 /NDF:116344.8/23

Right Out: 27.934 $\pm$ 0.009 χ^2 /NDF: 3479779.2/18

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF:128279.2/22

Left: 28.797 $\pm$ 0.003 χ^2 /NDF: 244624.0/46

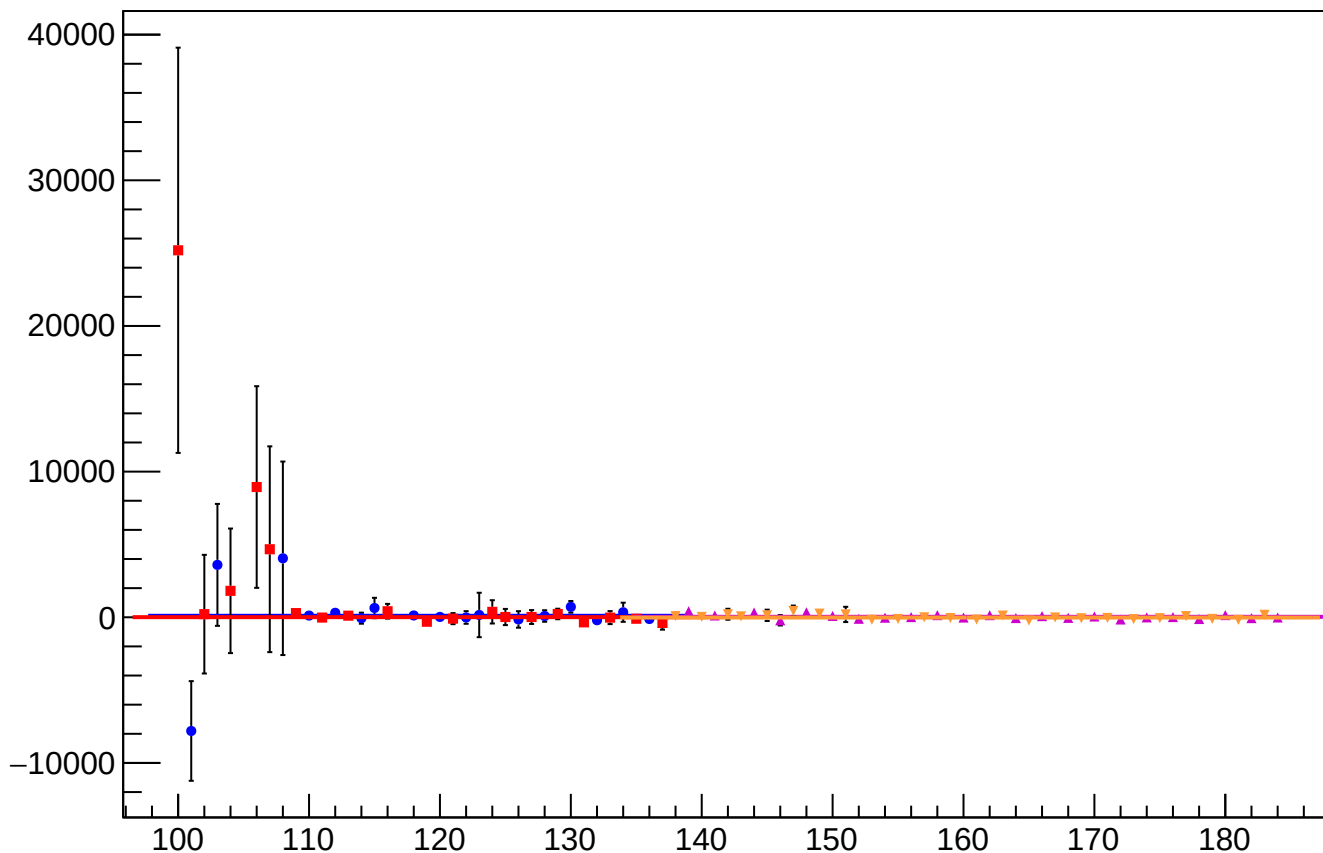
Right: 27.988 $\pm$ 0.006 χ^2 /NDF: 6507169.2/35

In: 28.615 $\pm$ 0.004 χ^2 /NDF:3161321.7/39

Out: 28.596 $\pm$ 0.004 χ^2 /NDF:3603587.4/42

All: 28.606 $\pm$ 0.003 χ^2 /NDF: 6764918.8/82

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.587 $\pm$ 88.682 χ^2 /NDF: 12.5/16

Left Out: -17.548 $\pm$ 49.414 χ^2 /NDF:7.9/23

Right Out: 7.957 $\pm$ 81.751 χ^2 /NDF: 12.3/18

Left In: 31.477 $\pm$ 46.483 χ^2 /NDF:7.8/22

Left: 8.462 $\pm$ 33.857 χ^2 /NDF: 16.2/46

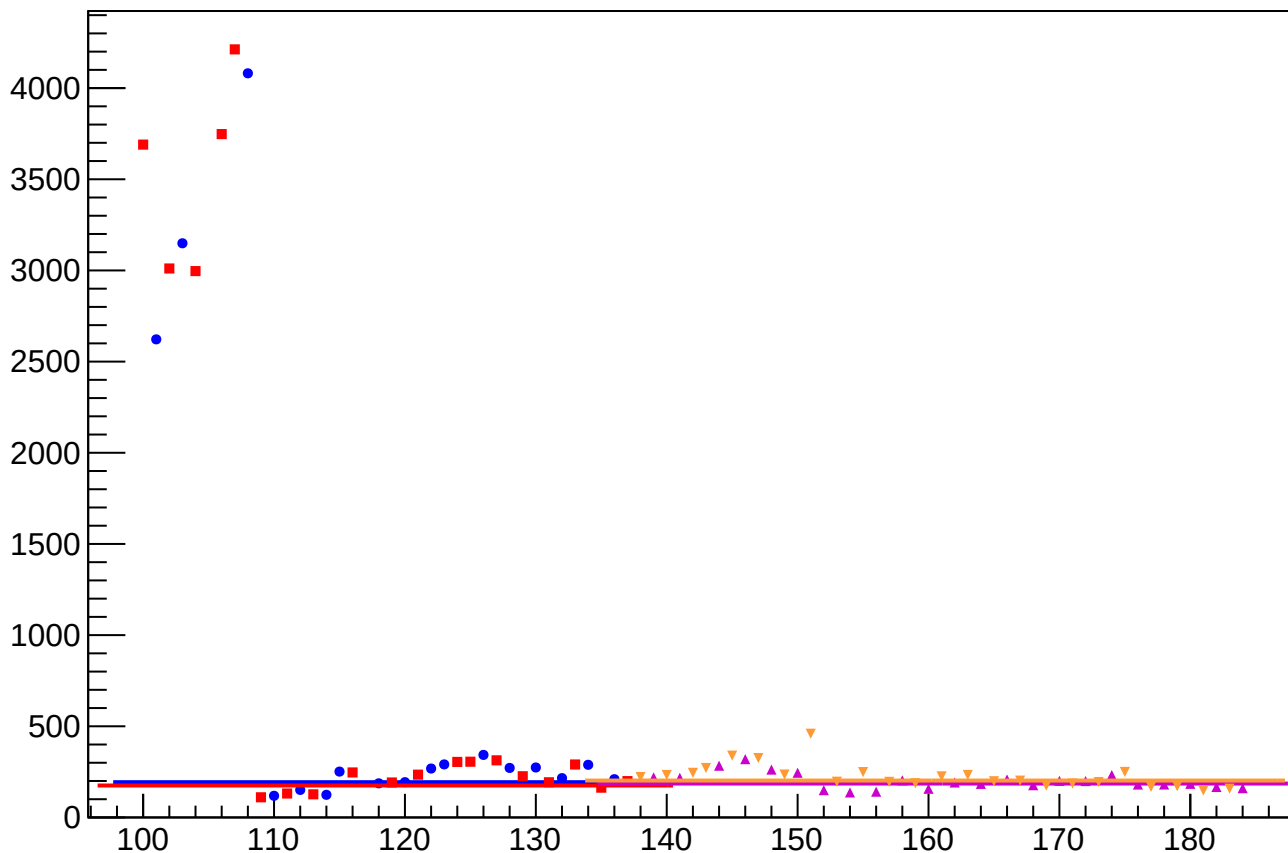
Right: 50.971 $\pm$ 60.108 χ^2 /NDF: 25.4/35

In: 46.588 $\pm$ 41.170 χ^2 /NDF:20.9/39

Out: -10.723 $\pm$ 42.289 χ^2 /NDF:20.2/42

All: 18.701 $\pm$ 29.499 χ^2 /NDF: 42.0/82

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.420+/-0.063 χ^2/NDF : 3538238.9/16

Left Out: 202.413+/-0.035 χ^2/NDF : 1797615.9/23

Right Out: 175.281+/-0.058 χ^2/NDF : 4160209.8/18

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.641+/-0.024 χ^2/NDF : 3297301.1/46

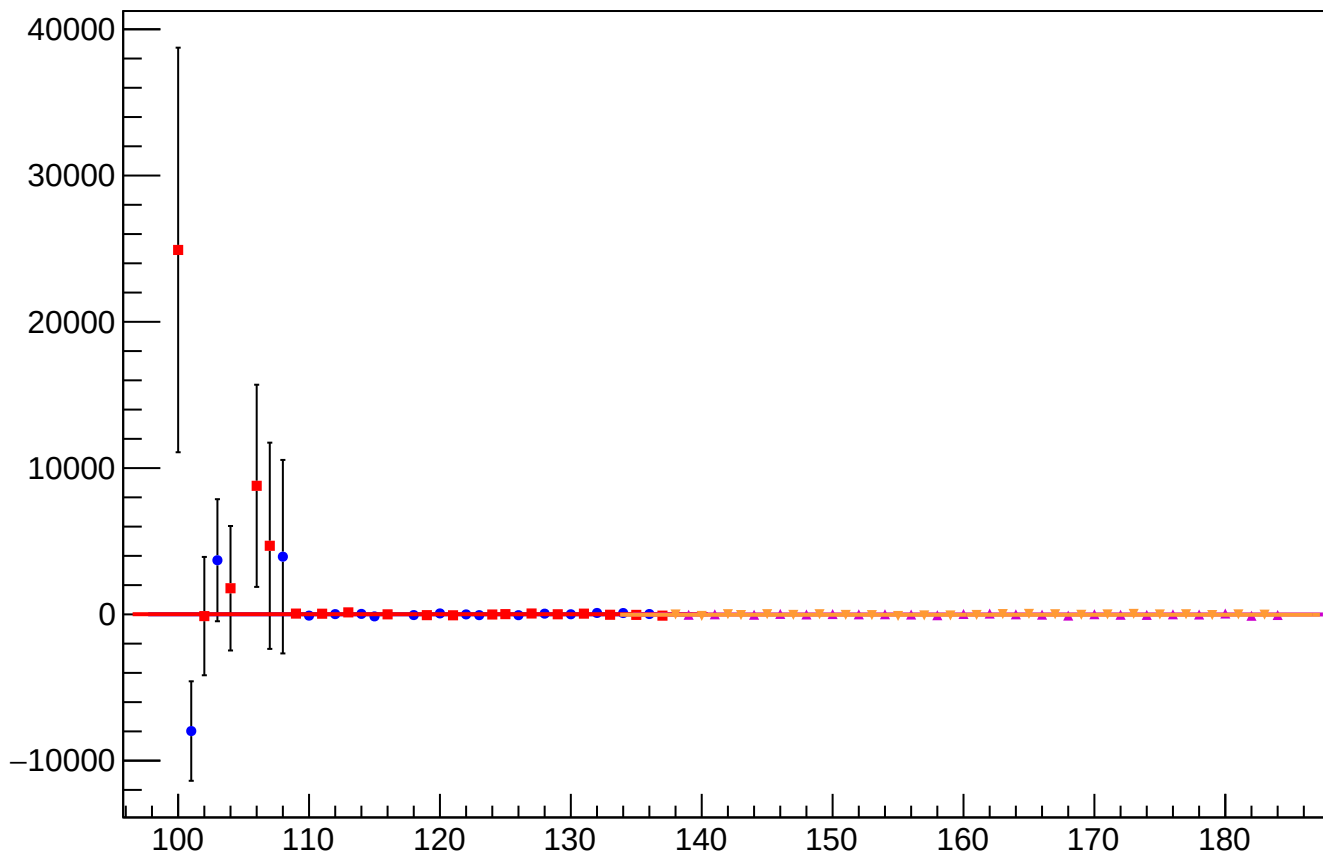
Right: 183.614+/-0.043 χ^2/NDF : 7743679.8/35

In: 187.504+/-0.029 χ^2/NDF : 4930462.1/39

Out: 195.153+/-0.030 χ^2/NDF : 6119173.7/42

All: 191.226+/-0.021 χ^2/NDF : 11083230.1/82

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.177+/-14.983 χ^2/NDF : 20.1/16

Left Out: -24.408+/-8.148 χ^2/NDF : 22.8/23

Right Out: 11.632+/-14.990 χ^2/NDF : 21.2/18

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.381+/-5.828 χ^2/NDF : 46.3/46

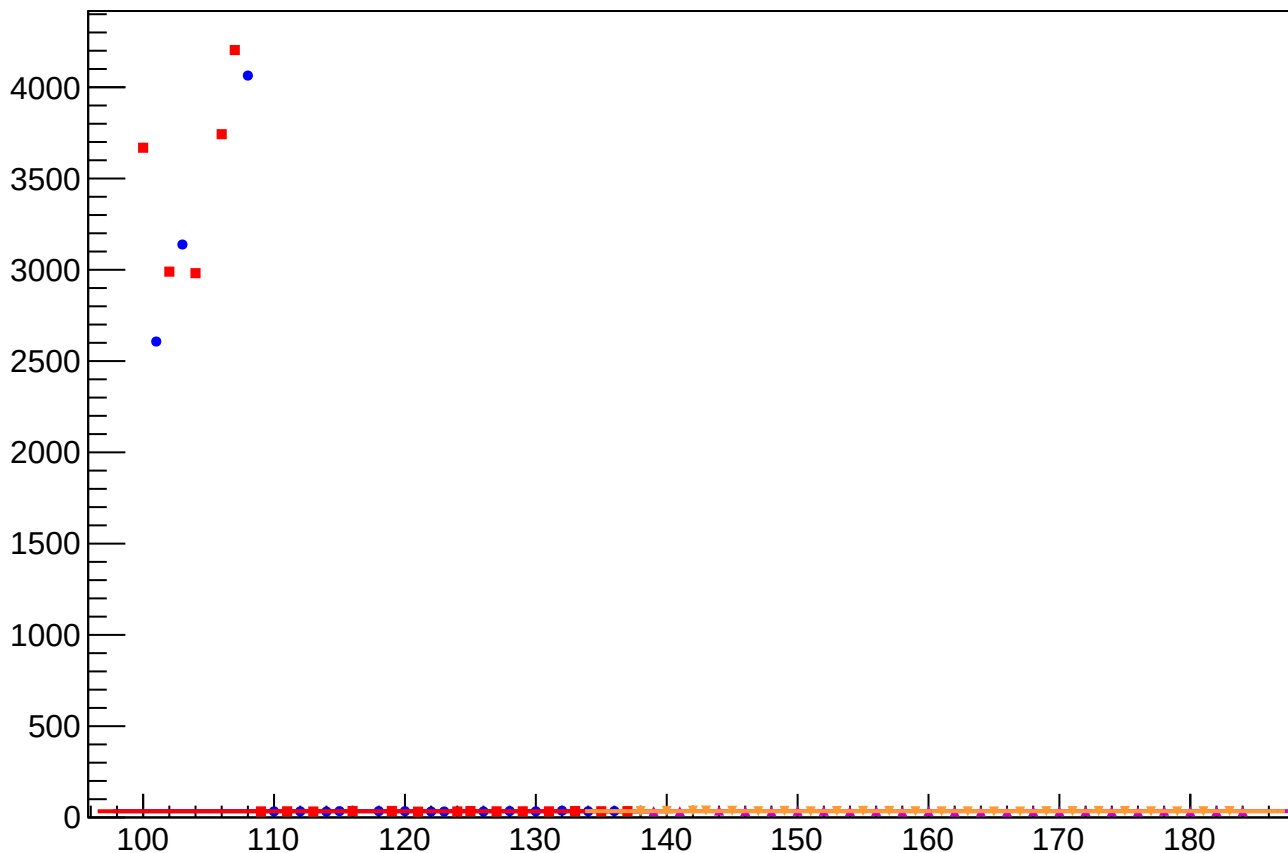
Right: 8.903+/-10.597 χ^2/NDF : 41.4/35

In: -3.061+/-7.287 χ^2/NDF : 41.6/39

Out: -16.188+/-7.159 χ^2/NDF : 48.5/42

All: -9.741+/-5.107 χ^2/NDF : 91.7/82

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.169 $\pm$ 0.011 χ^2 /NDF: 3006128.0/16

Left Out: 34.587 $\pm$ 0.006 χ^2 /NDF: 54204.8/23

Right Out: 33.933 $\pm$ 0.011 χ^2 /NDF: 3451992.5/18

Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.633 $\pm$ 0.004 χ^2 /NDF: 114171.2/46

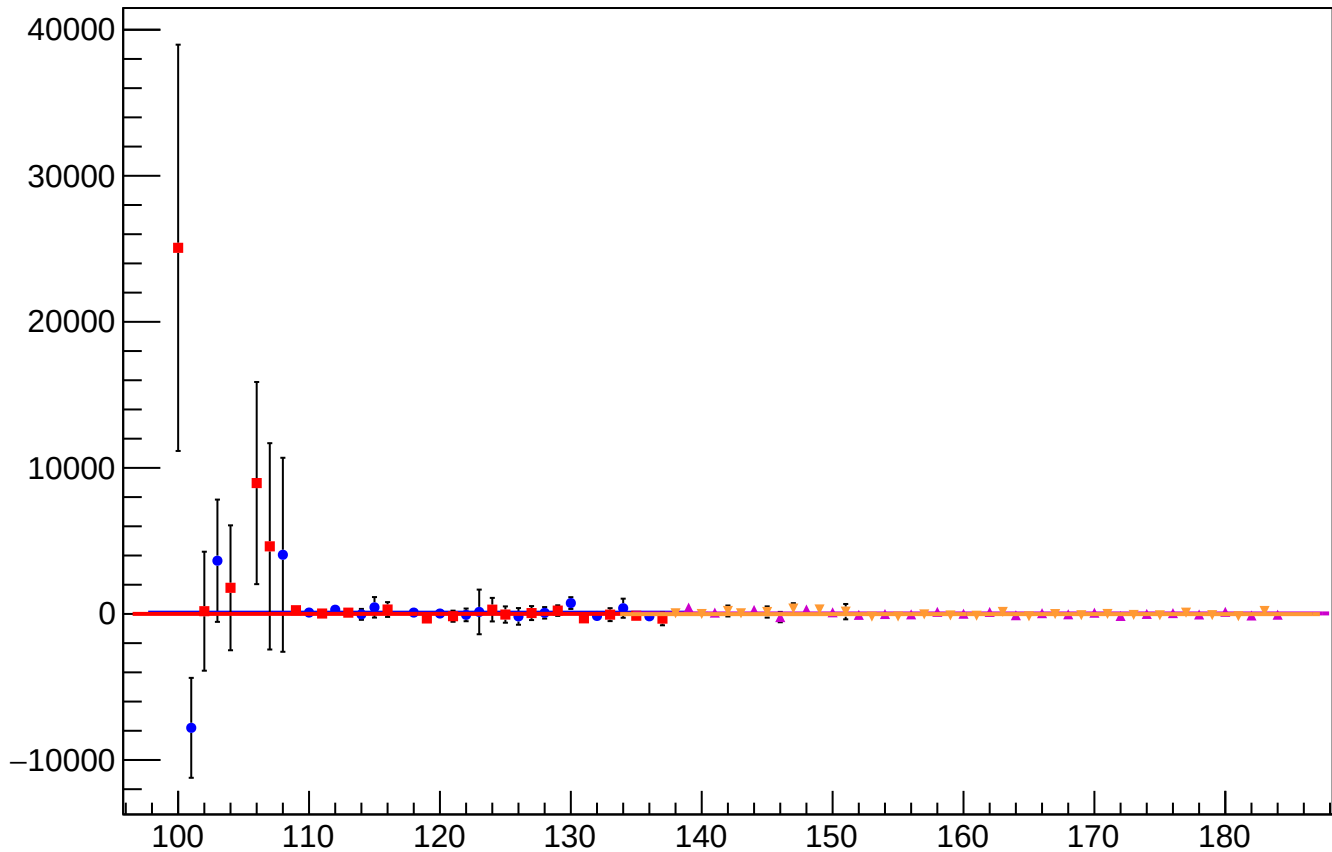
Right: 34.051 $\pm$ 0.007 χ^2 /NDF: 6458368.2/35

In: 34.560 $\pm$ 0.005 χ^2 /NDF: 3067753.7/39

Out: 34.438 $\pm$ 0.005 χ^2 /NDF: 3509138.7/42

All: 34.498 $\pm$ 0.004 χ^2 /NDF: 6577180.4/82

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.712 $\pm$ 88.241 χ^2 /NDF: 12.5/16

Left Out: -14.038 $\pm$ 49.345 χ^2 /NDF: 7.8/23

Right Out: 3.827 $\pm$ 81.231 χ^2 /NDF: 11.1/18

Left In: 34.977 $\pm$ 46.421 χ^2 /NDF: 7.1/22

Left: 11.965 $\pm$ 33.811 χ^2 /NDF: 15.5/46

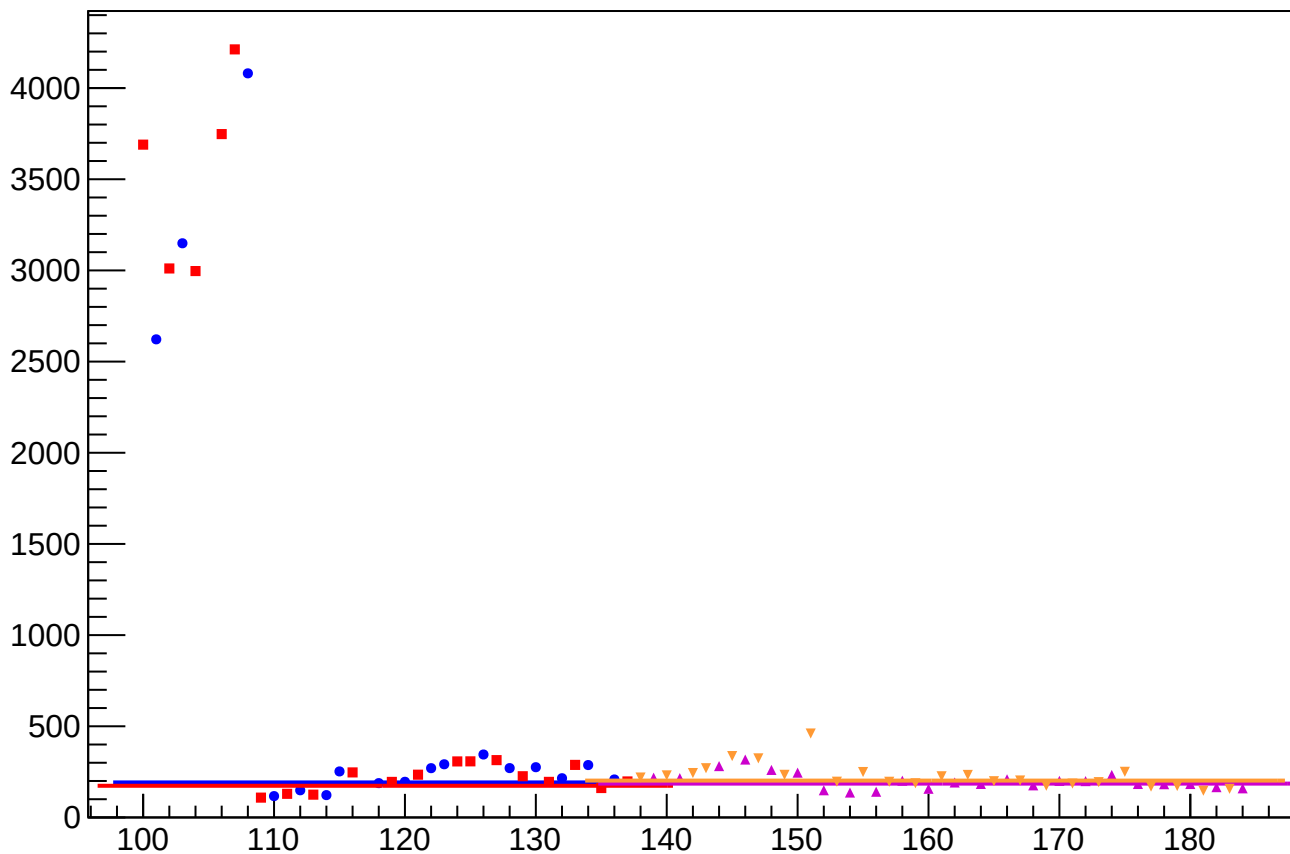
Right: 41.847 $\pm$ 59.764 χ^2 /NDF: 24.1/35

In: 46.191 $\pm$ 41.083 χ^2 /NDF: 19.9/39

Out: -9.222 $\pm$ 42.173 χ^2 /NDF: 19.0/42

All: 19.210 $\pm$ 29.428 χ^2 /NDF: 39.7/82

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.118 $\pm$ 0.062 χ^2 /NDF: 3575311.3/16

Left Out: 202.132 $\pm$ 0.035 χ^2 /NDF:1790032.7/23

Right Out: 173.728 $\pm$ 0.057 χ^2 /NDF: 4205626.6/18

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.376 $\pm$ 0.024 χ^2 /NDF: 3280134.6/46

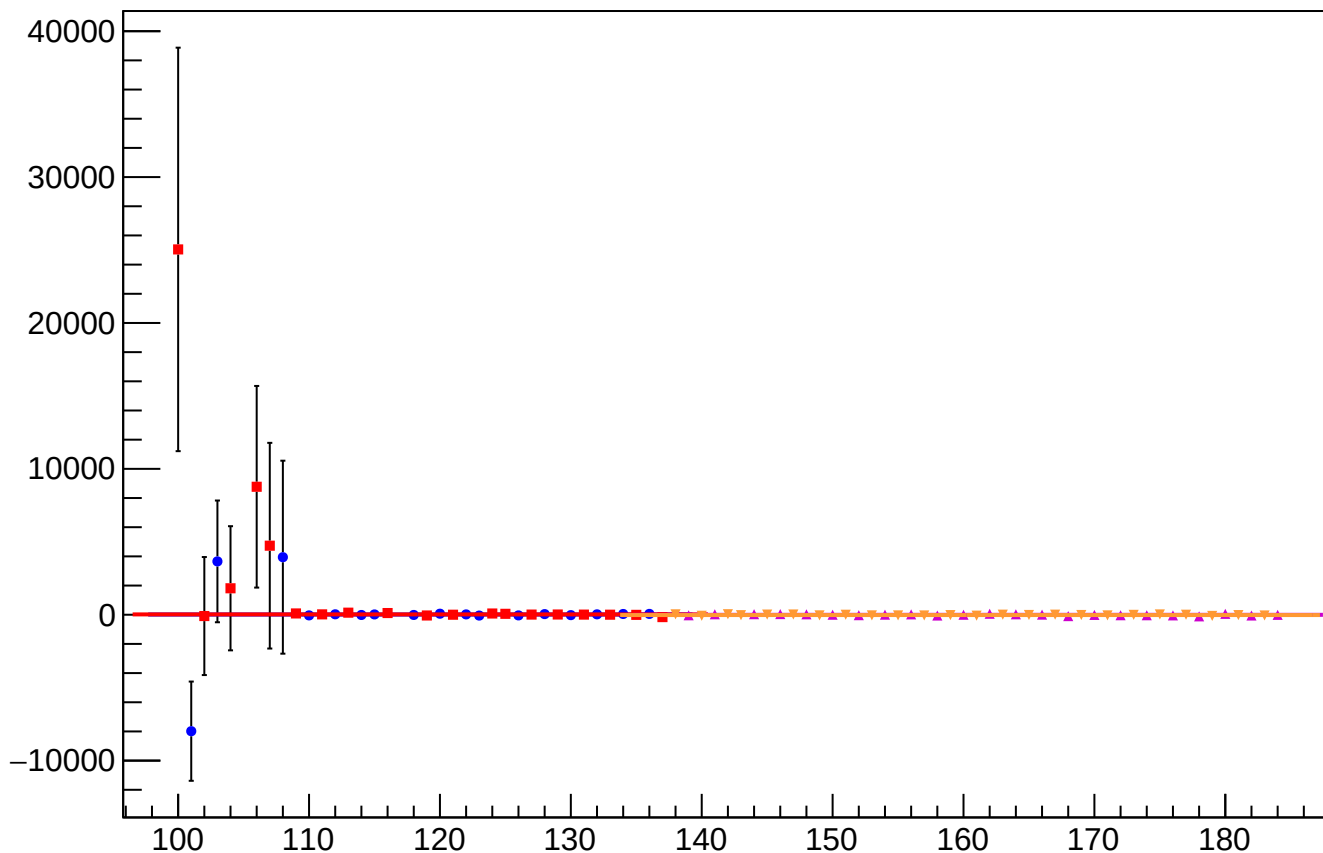
Right: 182.163 $\pm$ 0.042 χ^2 /NDF: 7827959.7/35

In: 187.034 $\pm$ 0.029 χ^2 /NDF:4955197.9/39

Out: 194.475 $\pm$ 0.030 χ^2 /NDF:6174279.3/42

All: 190.657 $\pm$ 0.021 χ^2 /NDF: 11161422.8/82

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.225+/-13.662 χ^2/NDF : 14.8/16

Left Out: -22.257+/-7.416 χ^2/NDF : 17.4/23

Right Out: 22.859+/-13.697 χ^2/NDF : 27.3/18

Left In: -6.386+/-7.577 χ^2/NDF : 38.7/22

Left: -14.491+/-5.300 χ^2/NDF : 58.4/46

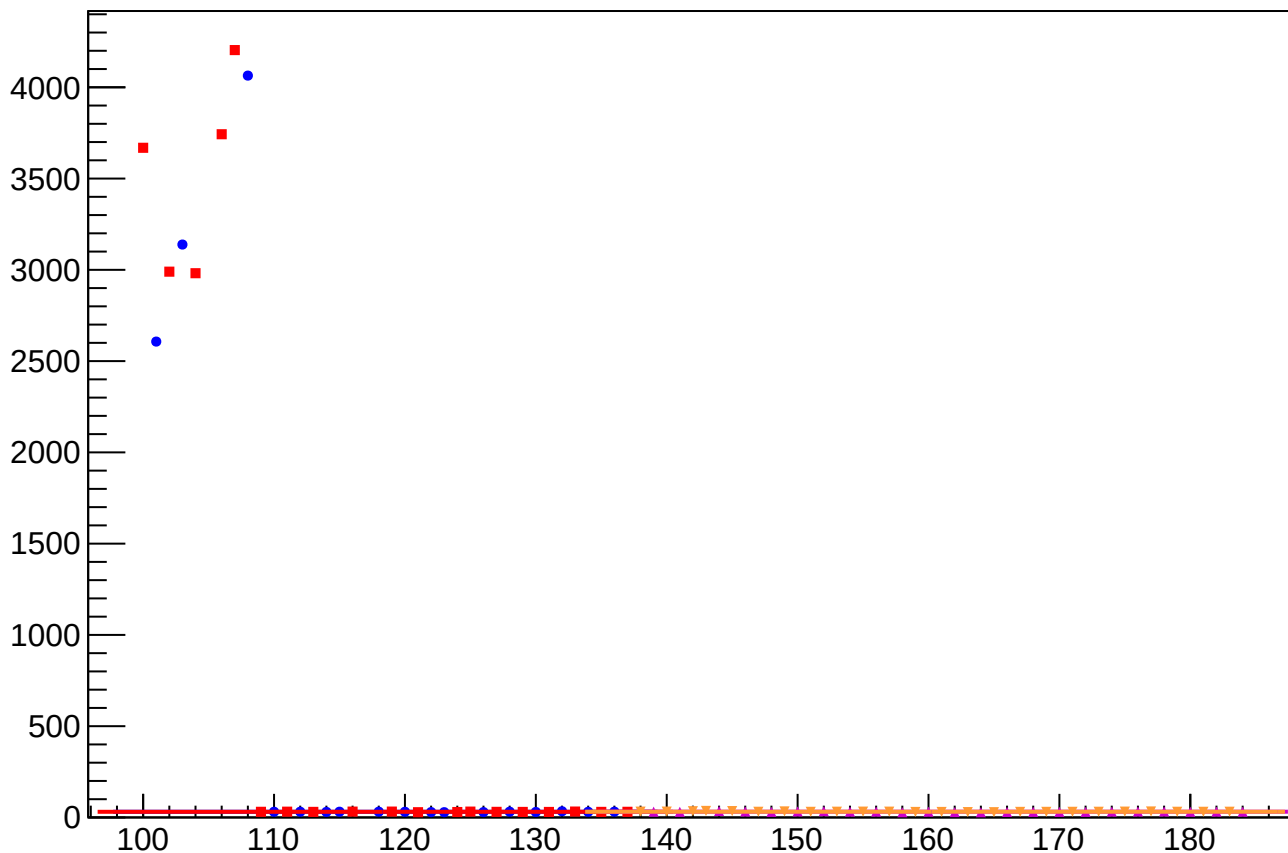
Right: 18.531+/-9.673 χ^2/NDF : 42.3/35

In: -1.538+/-6.626 χ^2/NDF : 55.2/39

Out: -12.028+/-6.522 χ^2/NDF : 53.2/42

All: -6.866+/-4.648 χ^2/NDF : 109.7/82

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.158+/-0.010 χ^2 /NDF: 3014166.6/16

Left Out: 31.459+/-0.005 χ^2 /NDF: 76941.0/23

Right Out: 30.985+/-0.010 χ^2 /NDF: 3458900.0/18

Left In: 31.475+/-0.005 χ^2 /NDF: 87797.5/22

Left: 31.467+/-0.004 χ^2 /NDF: 164743.5/46

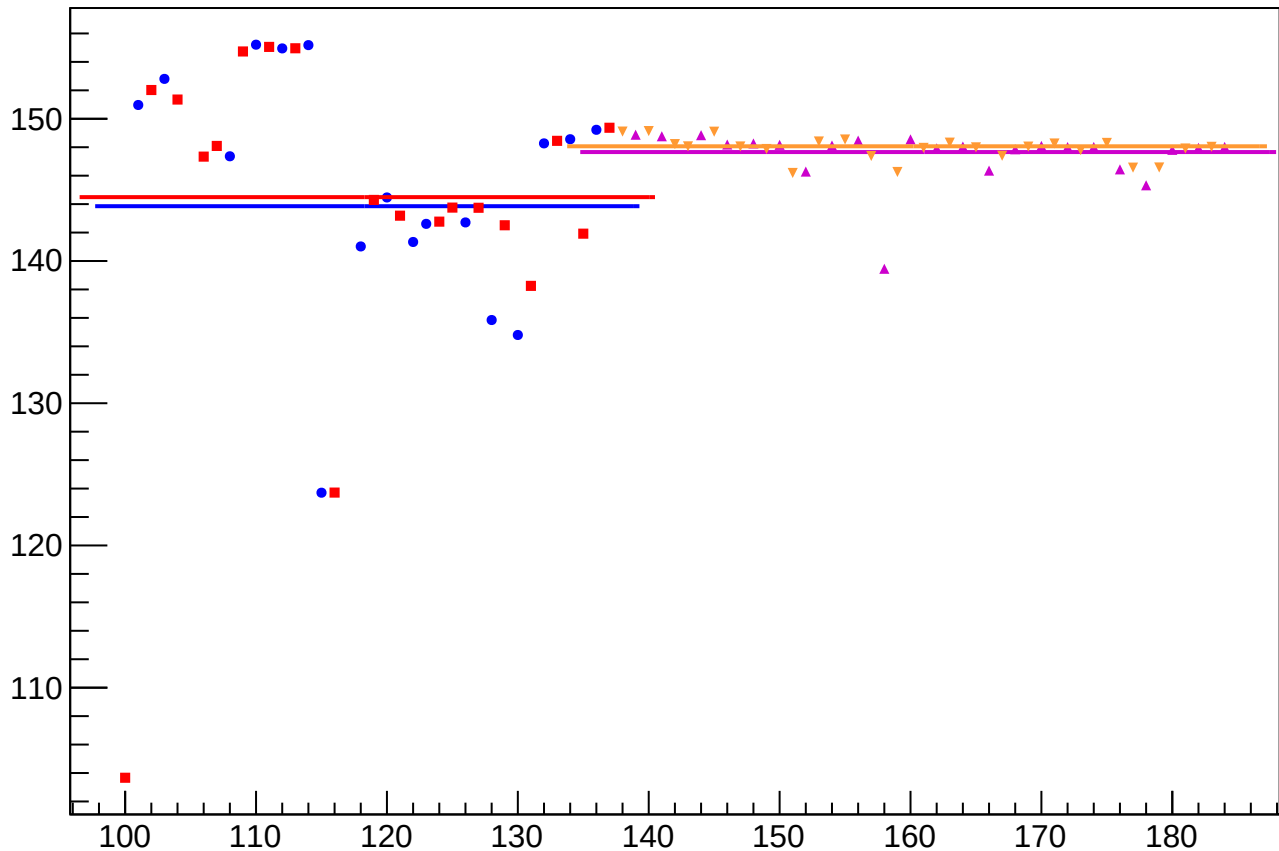
Right: 31.071+/-0.007 χ^2 /NDF: 6473226.1/35

In: 31.401+/-0.005 χ^2 /NDF: 3102791.5/39

Out: 31.351+/-0.005 χ^2 /NDF: 3537691.3/42

All: 31.376+/-0.003 χ^2 /NDF: 6640539.1/82

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.854+/-0.000 χ^2/NDF : 3448306444.5/16

Left Out: 148.066+/-0.000 χ^2/NDF : 65575702.8/23

Right Out: 144.491+/-0.000 χ^2/NDF : 4184461794.3/18

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.869+/-0.000 χ^2/NDF : 416742363.3/46

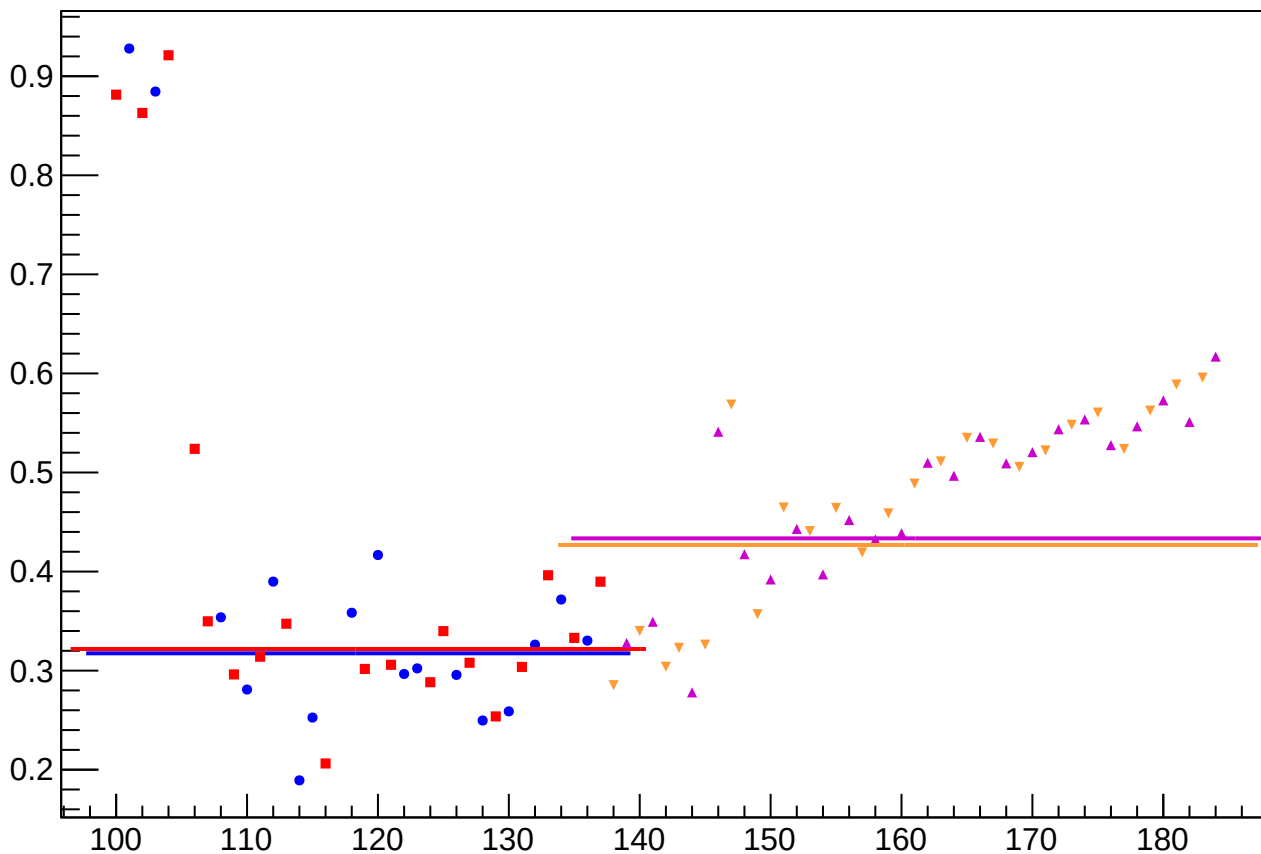
Right: 144.176+/-0.000 χ^2/NDF : 7644095101.6/35

In: 146.170+/-0.000 χ^2/NDF : 4279328275.3/39

Out: 146.699+/-0.000 χ^2/NDF : 4695449664.7/42

All: 146.440+/-0.000 χ^2/NDF : 8994974496.6

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1273243.2/16

Left Out: 0.427+/-0.000 χ^2/NDF : 1827265.9/23

Right Out: 0.322+/-0.000 χ^2/NDF : 1215219.2/18

Left In: 0.434+/-0.000 χ^2/NDF : 1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3310557.1/46

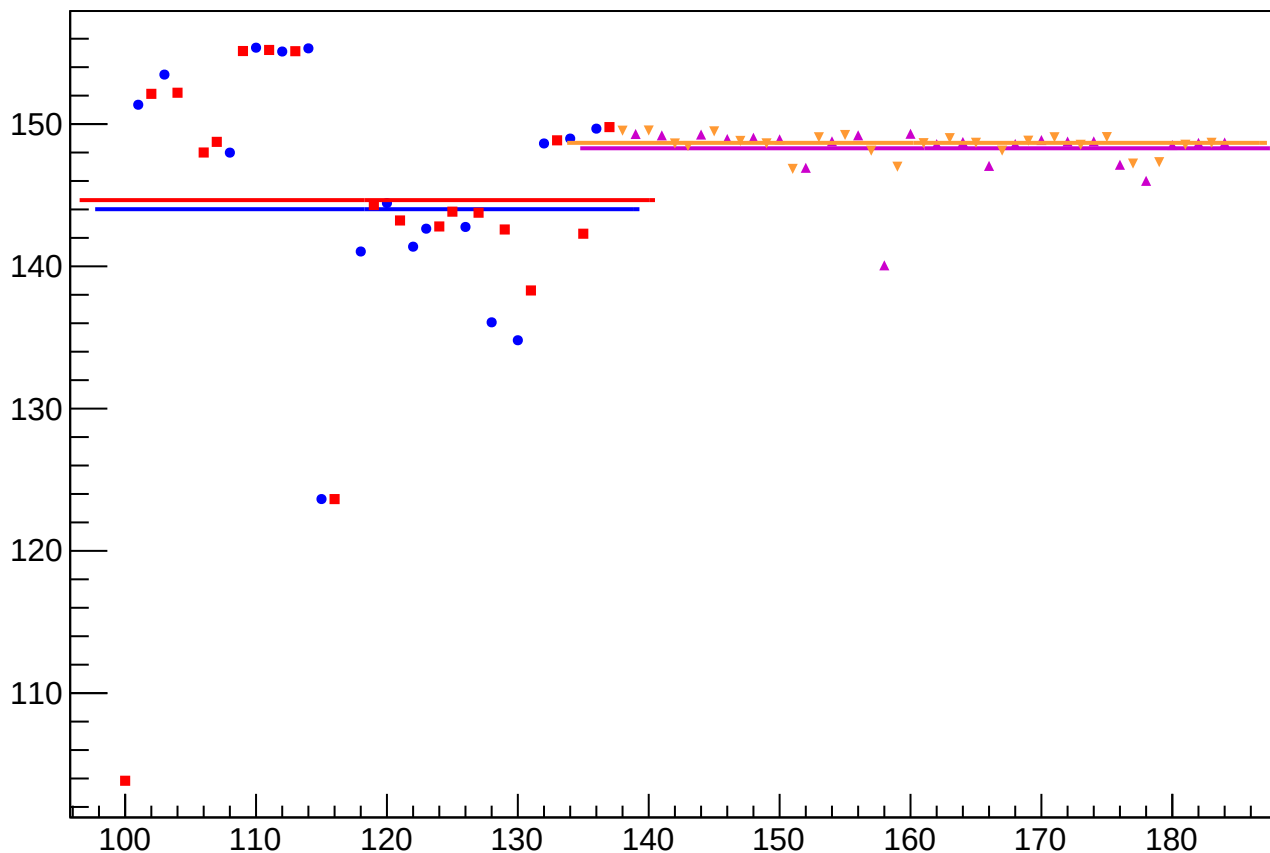
Right: 0.320+/-0.000 χ^2/NDF : 2489538.1/35

In: 0.388+/-0.000 χ^2/NDF : 3658039.1/39

Out: 0.387+/-0.000 χ^2/NDF : 3810748.2/42

All: 0.387+/-0.000 χ^2/NDF : 7469057.3/82

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.016 $\pm$ 0.000 χ^2 /NDF: 3492221319.5/16

Left Out: 148.680 $\pm$ 0.000 χ^2 /NDF: 52514352.4/23

Right Out: 144.655 $\pm$ 0.000 χ^2 /NDF: 4208783732.4/18

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.495 $\pm$ 0.000 χ^2 /NDF: 391367693.5/46

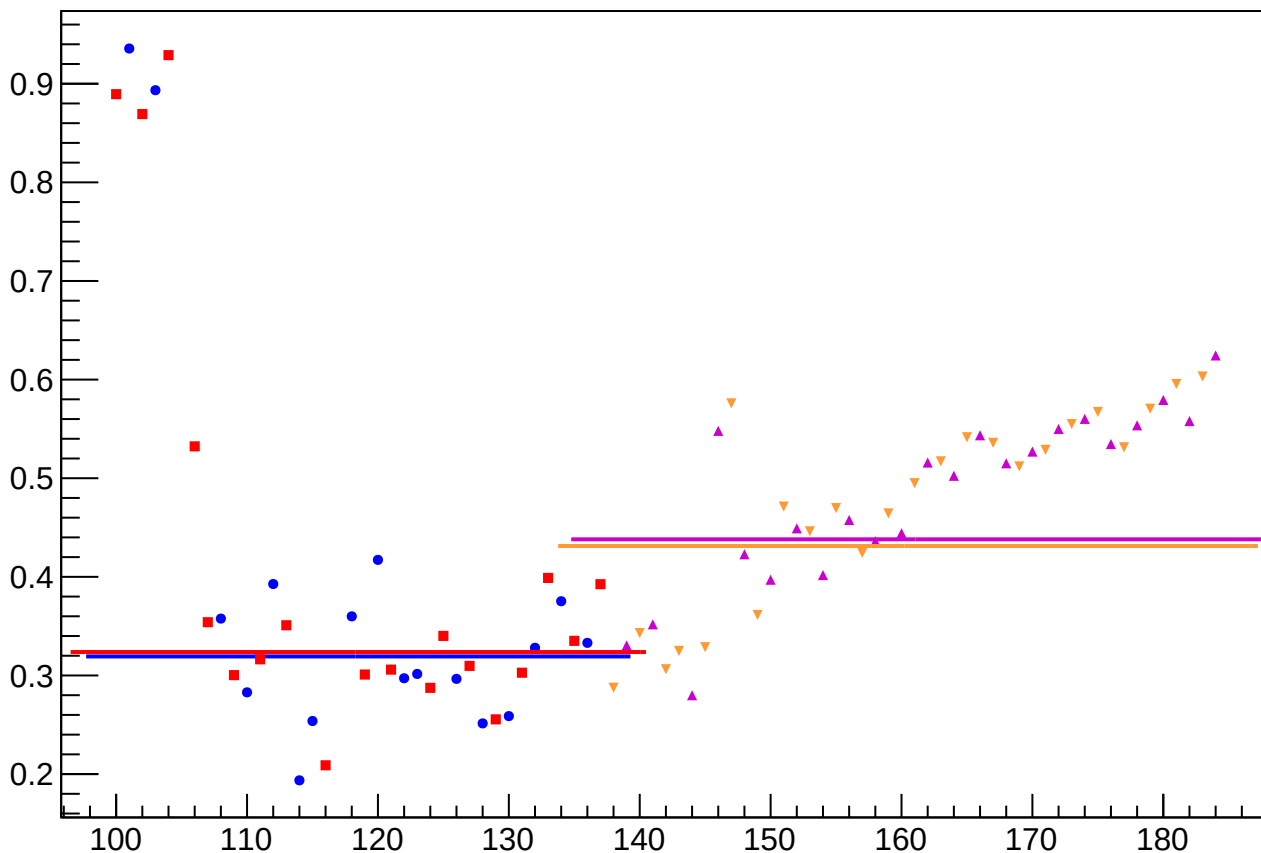
Right: 144.339 $\pm$ 0.000 χ^2 /NDF: 7712254878.2/35

In: 146.611 $\pm$ 0.000 χ^2 /NDF: 4431587247.2/39

Out: 147.132 $\pm$ 0.000 χ^2 /NDF: 4817189964.4/42

All: 146.877 $\pm$ 0.000 χ^2 /NDF: 9268025914.1

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1274809.7/16

Left Out: 0.431+/-0.000 χ^2/NDF :1858437.8/23

Right Out: 0.324+/-0.000 χ^2/NDF : 1217547.6/18

Left In: 0.438+/-0.000 χ^2/NDF :1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3367086.1/46

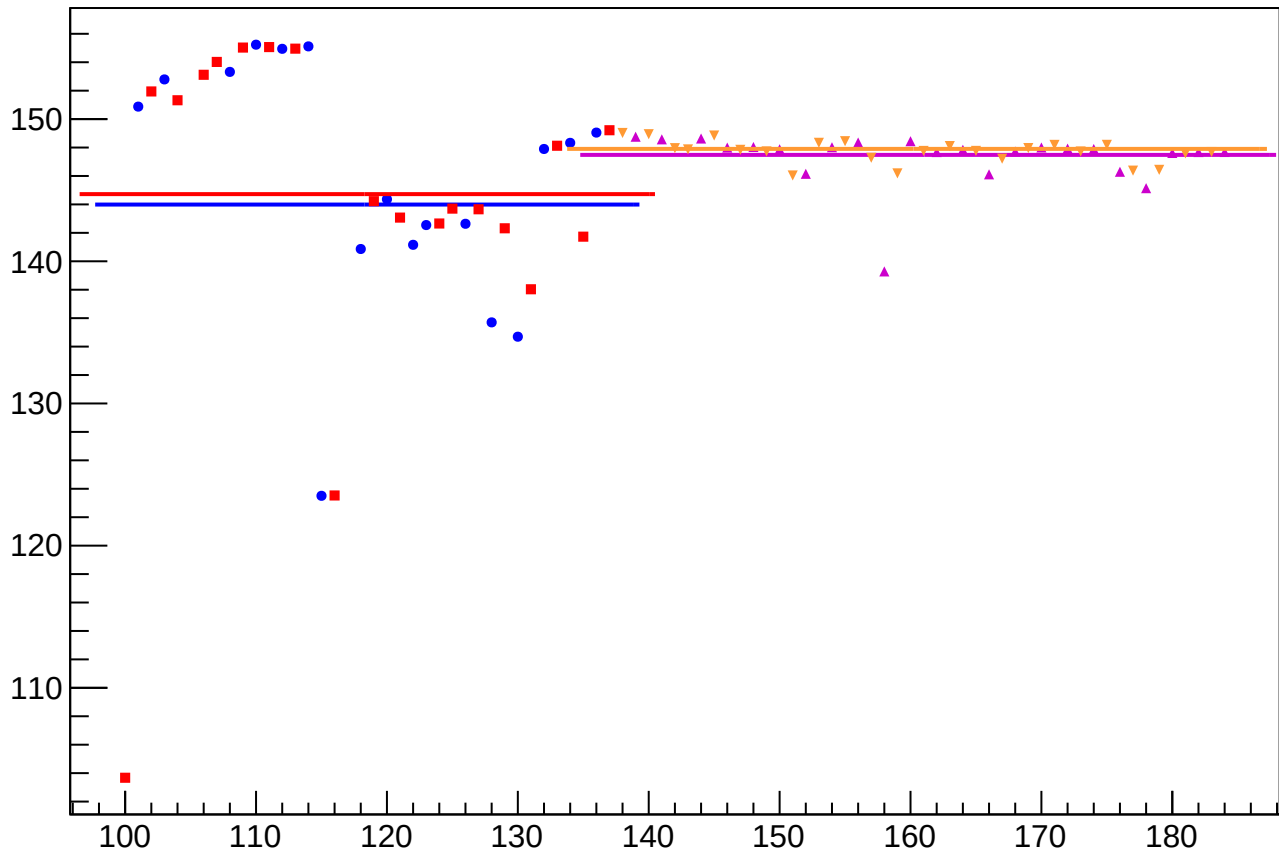
Right: 0.322+/-0.000 χ^2/NDF : 2493460.6/35

In: 0.391+/-0.000 χ^2/NDF :3713141.1/39

Out: 0.390+/-0.000 χ^2/NDF :3868531.2/42

All: 0.391+/-0.000 χ^2/NDF : 7581932.0/82

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.990 $\pm$ 0.000 χ^2 /NDF: 3661758828.8/16

Left Out: 147.906 $\pm$ 0.000 χ^2 /NDF: 64355656.9/23

Right Out: 144.724 $\pm$ 0.000 χ^2 /NDF: 4474261871.8/18

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.701 $\pm$ 0.000 χ^2 /NDF: 414854551.3/46

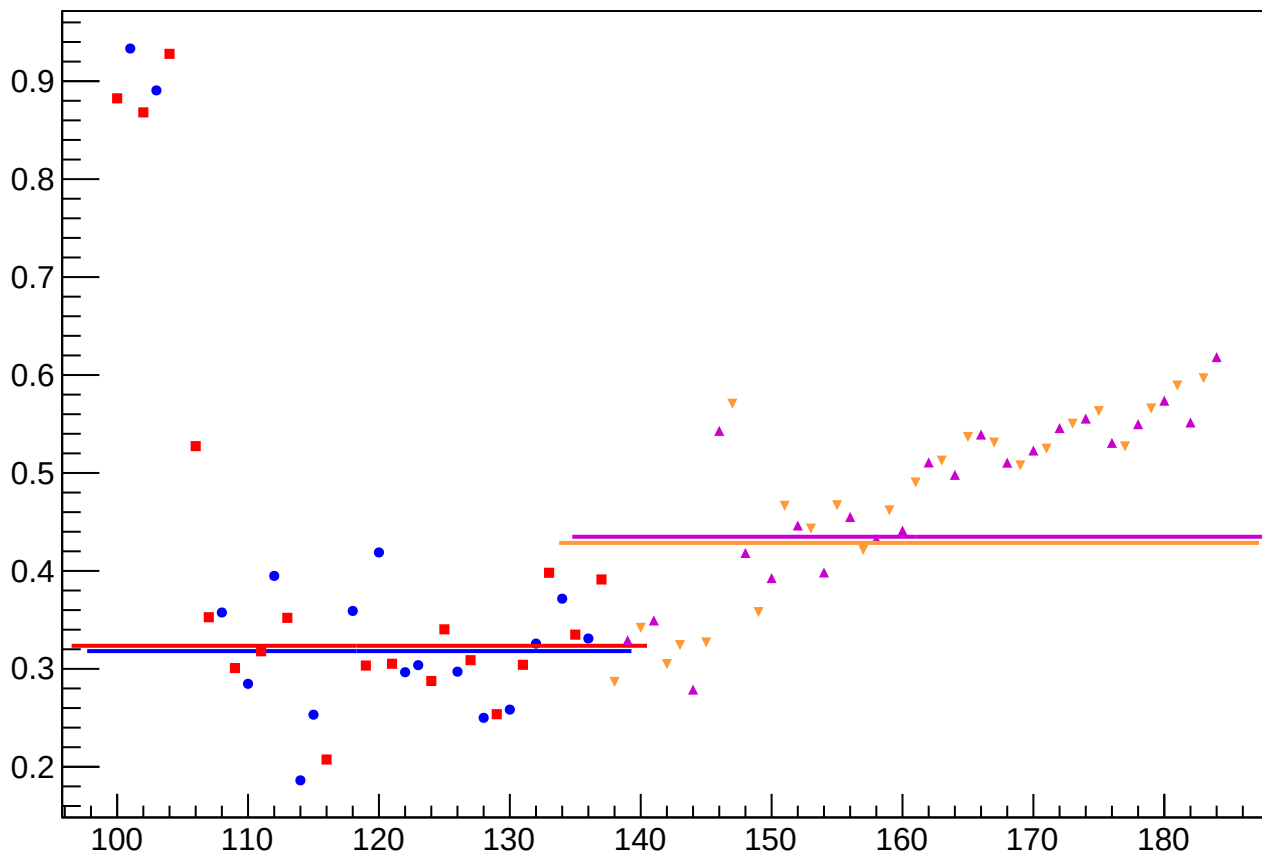
Right: 144.360 $\pm$ 0.000 χ^2 /NDF: 8150942060.9/35

In: 146.115 $\pm$ 0.000 χ^2 /NDF: 4412250956.8/39

Out: 146.691 $\pm$ 0.000 χ^2 /NDF: 4887937496.1/42

All: 146.409 $\pm$ 0.000 χ^2 /NDF: 9323925242.7

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.318 $\pm$ 0.000 χ^2 /NDF: 1287972.7/16

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1827400.6/23

Right Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 1220104.3/18

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3316759.0/46

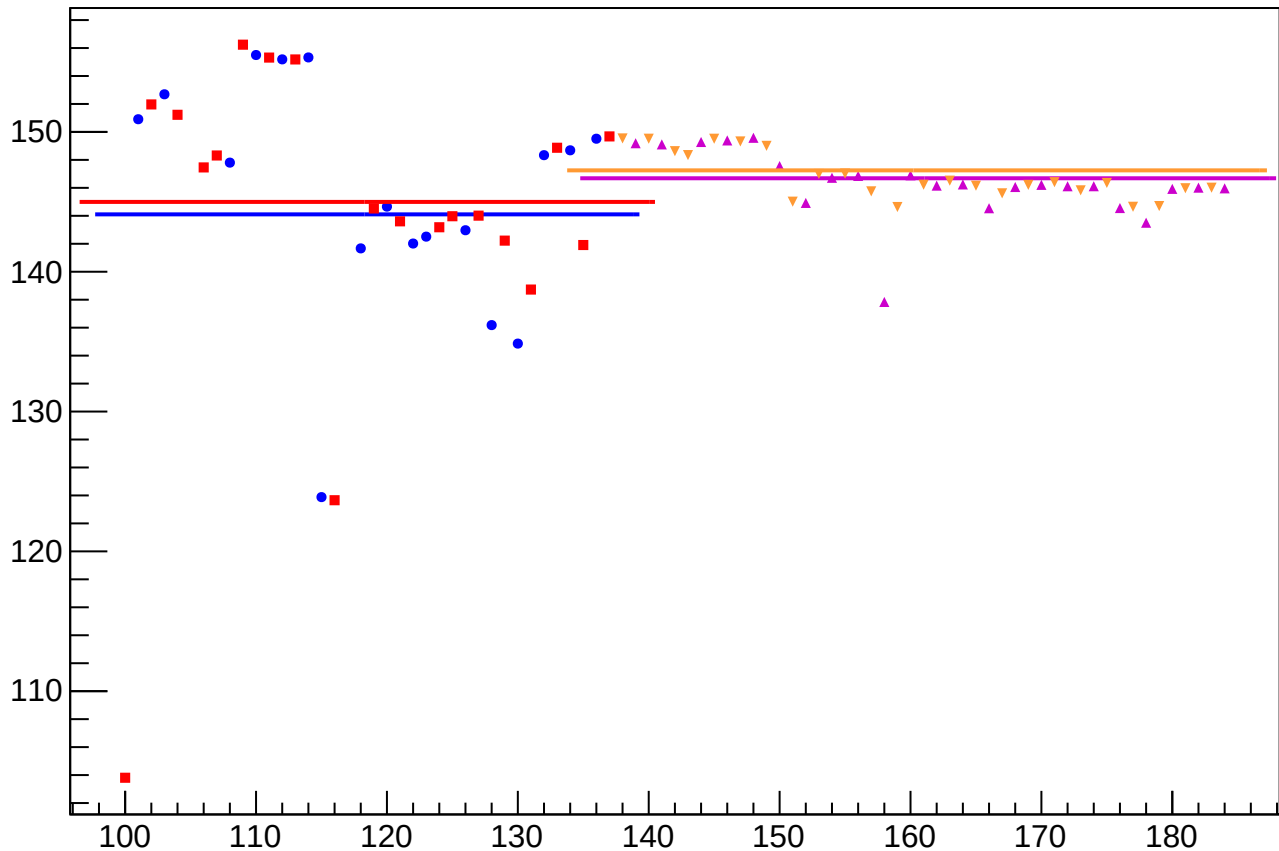
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2509712.1/35

In: 0.389 $\pm$ 0.000 χ^2 /NDF:3684507.2/39

Out: 0.389 $\pm$ 0.000 χ^2 /NDF:3808915.6/42

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7493482.0/82

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.104 $\pm$ 0.000 χ^2 /NDF: 3160280337.5/16

Left Out: 147.251 $\pm$ 0.000 χ^2 /NDF: 258466988.0/23

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3854490205.5/18

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.976 $\pm$ 0.000 χ^2 /NDF: 826727578.0/46

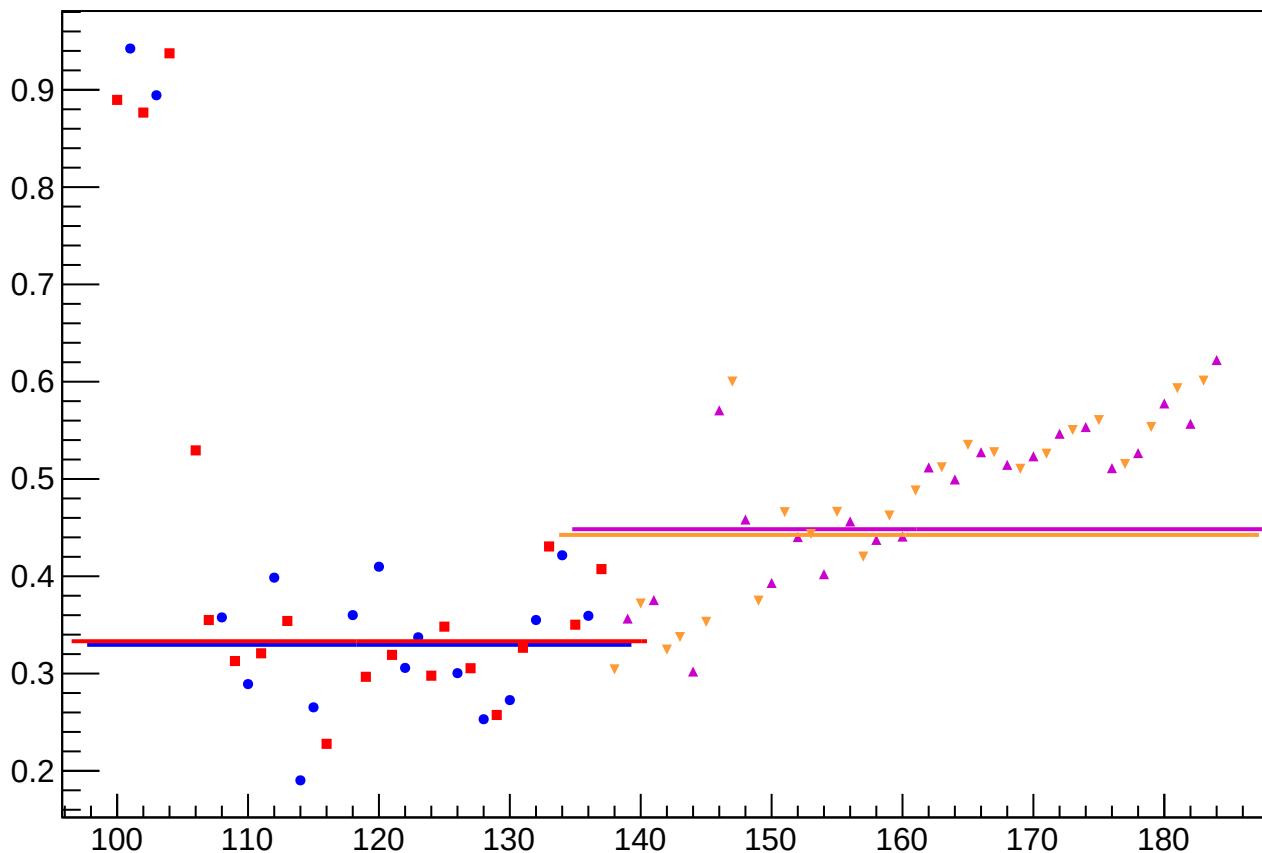
Right: 144.556 $\pm$ 0.000 χ^2 /NDF: 7035324027.3/35

In: 145.687 $\pm$ 0.000 χ^2 /NDF: 3923928402.4/39

Out: 146.392 $\pm$ 0.000 χ^2 /NDF: 4278761722.0/42

All: 146.048 $\pm$ 0.000 χ^2 /NDF: 8236259456.7

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2 /NDF: 1270354.0/16

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1427769.8/23

Right Out: 0.333 $\pm$ 0.000 χ^2 /NDF: 1179001.1/18

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1120261.8/22

Left: 0.445 $\pm$ 0.000 χ^2 /NDF: 2550896.5/46

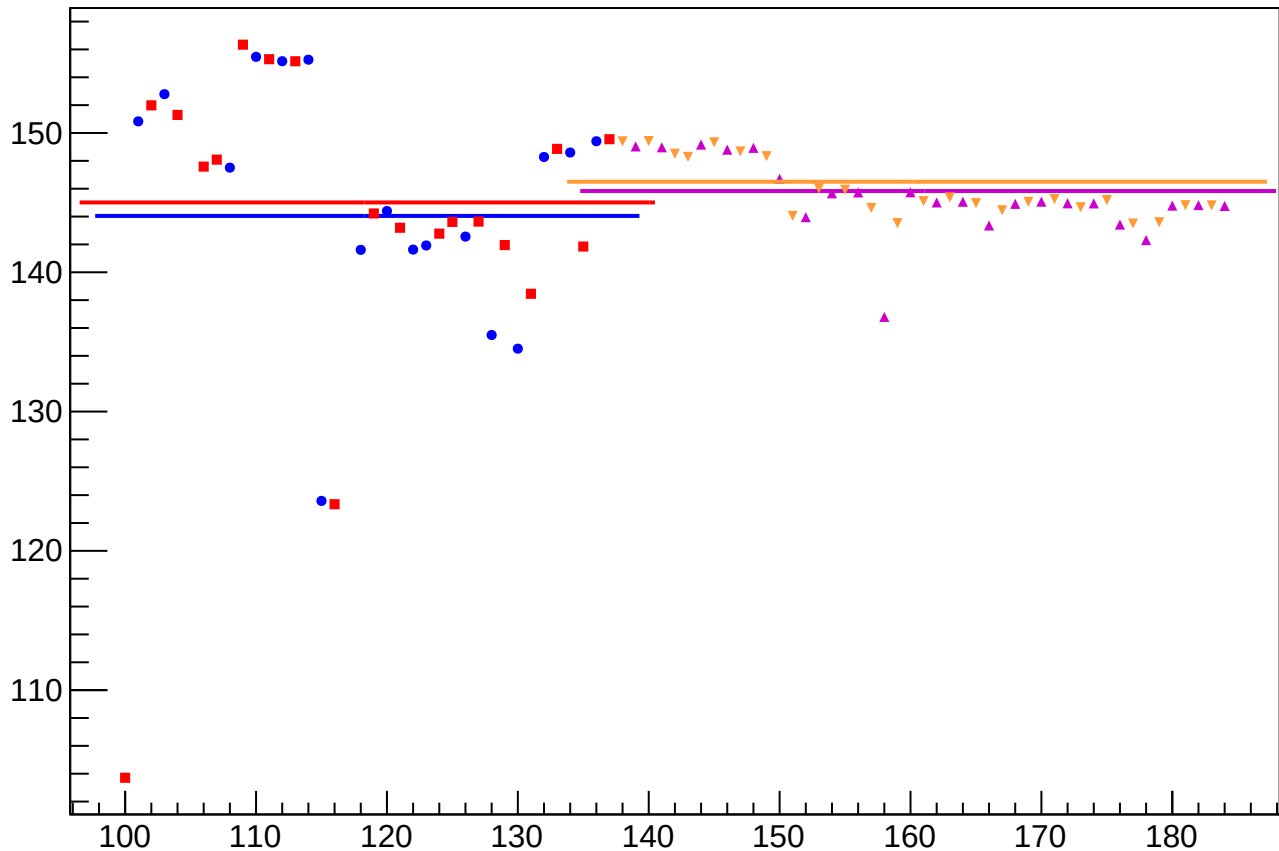
Right: 0.331 $\pm$ 0.000 χ^2 /NDF: 2450053.6/35

In: 0.402 $\pm$ 0.000 χ^2 /NDF:3275350.0/39

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:3384742.7/42

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 6660407.5/82

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.046 $\pm$ 0.000 χ^2 /NDF: 3279467915.9/16

Left Out: 146.501 $\pm$ 0.000 χ^2 /NDF: 395016682.7/23

Right Out: 145.013 $\pm$ 0.000 χ^2 /NDF: 3930693089.2/18

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.177 $\pm$ 0.000 χ^2 /NDF: 1103619587.2/46

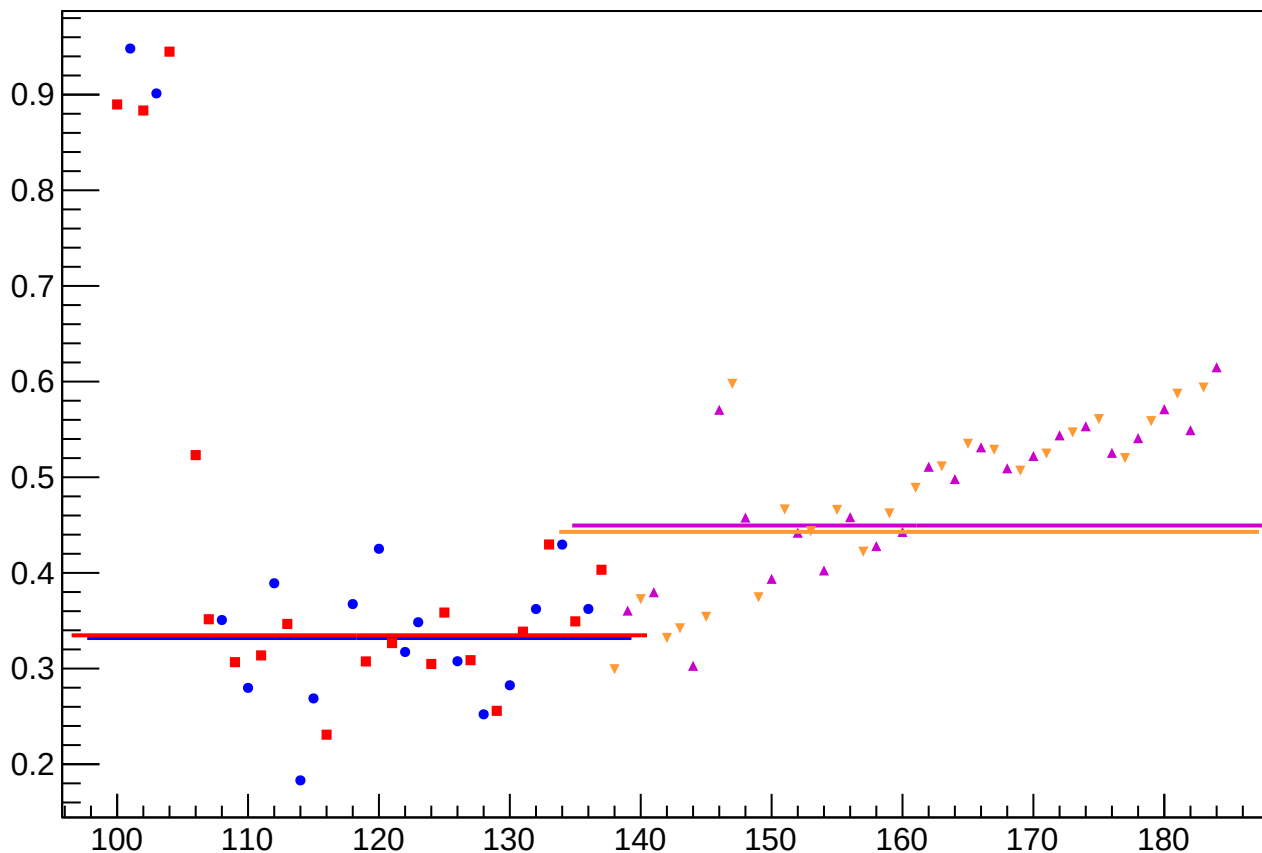
Right: 144.538 $\pm$ 0.000 χ^2 /NDF: 7234057528.4/35

In: 145.149 $\pm$ 0.000 χ^2 /NDF: 4068575284.1/39

Out: 145.938 $\pm$ 0.000 χ^2 /NDF: 4397248622.6/42

All: 145.553 $\pm$ 0.000 χ^2 /NDF: 8507589075.1

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.000 χ^2 /NDF: 1287882.2/16

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1411224.3/23

Right Out: 0.335 $\pm$ 0.000 χ^2 /NDF: 1168458.2/18

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2507653.4/46

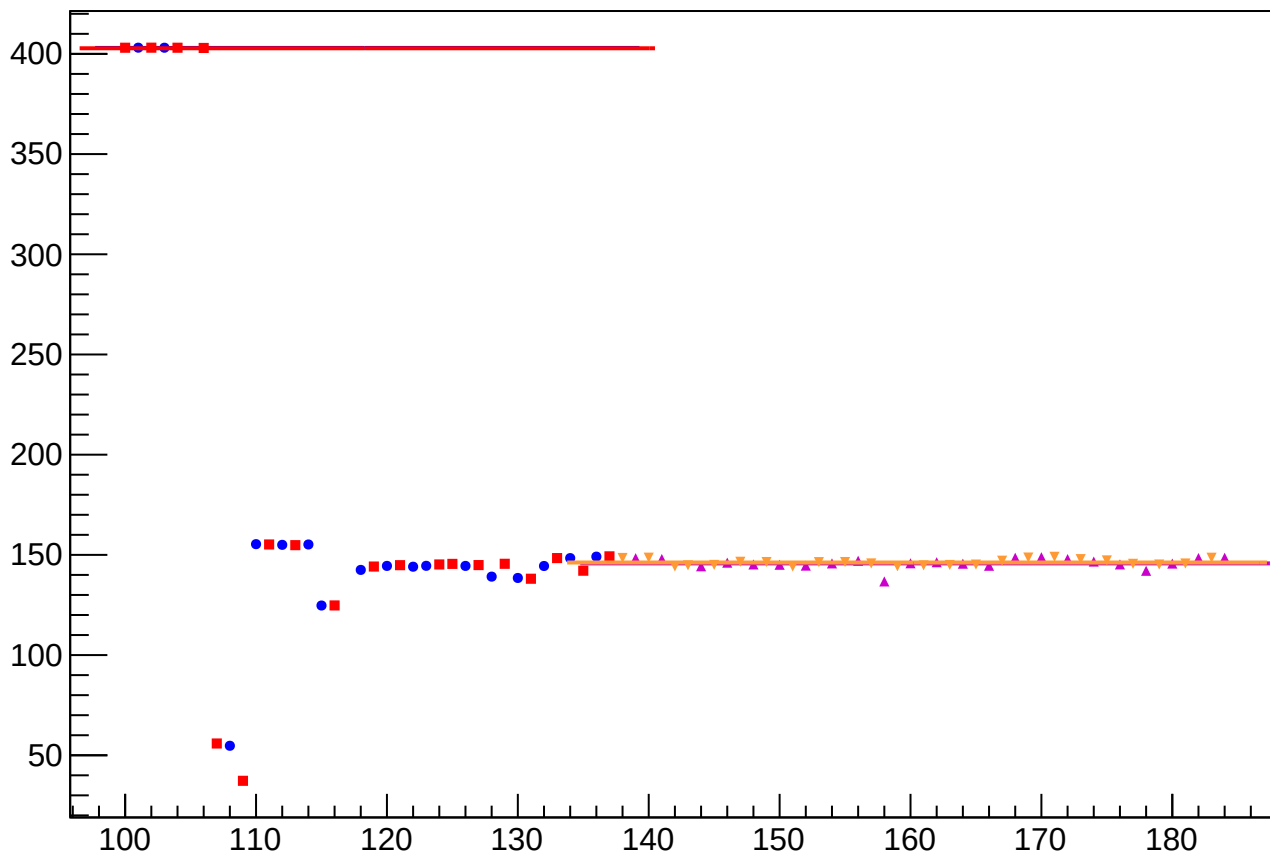
Right: 0.333 $\pm$ 0.000 χ^2 /NDF: 2456747.1/35

In: 0.404 $\pm$ 0.000 χ^2 /NDF:3235970.1/39

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:3335640.5/42

All: 0.403 $\pm$ 0.000 χ^2 /NDF: 6572423.7/82

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000

χ^2/NDF : 1097981079296.6/16

Left: 145.975+/-0.000

χ^2/NDF : 292676827.3/46

Left Out: 146.195+/-0.000

χ^2/NDF : 83094341.2/23

Right: 402.873+/-0.000

χ^2/NDF : 4204637713016.5/16

Right Out: 402.798+/-0.000

χ^2/NDF : 3106239706226.1/18

In: 402.666+/-0.000

χ^2/NDF : 3430247694143.9/39

Left In: 145.755+/-0.000

χ^2/NDF : 206171532.0/22

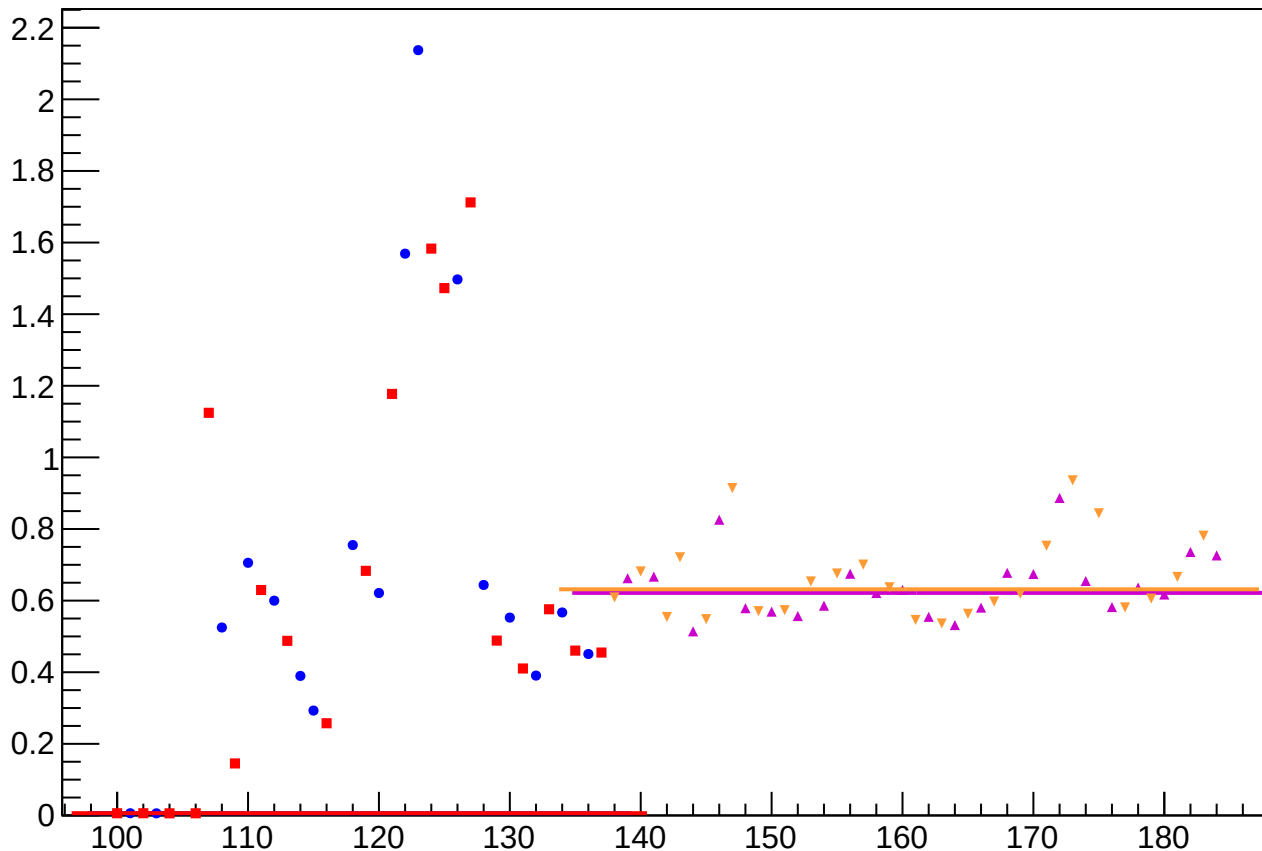
Out: 402.542+/-0.000

χ^2/NDF : 5422902315281.2/46

All: 402.600+/-0.000

χ^2/NDF : 885340344465.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9127939.0/16

Left Out: 0.632+/-0.000 χ^2/NDF : 612423.0/23

Right Out: 0.006+/-0.000 χ^2/NDF : 9171738.5/18

Left In: 0.622+/-0.000 χ^2/NDF : 399965.3/22

Left: 0.627+/-0.000 χ^2/NDF : 1015935.2/46

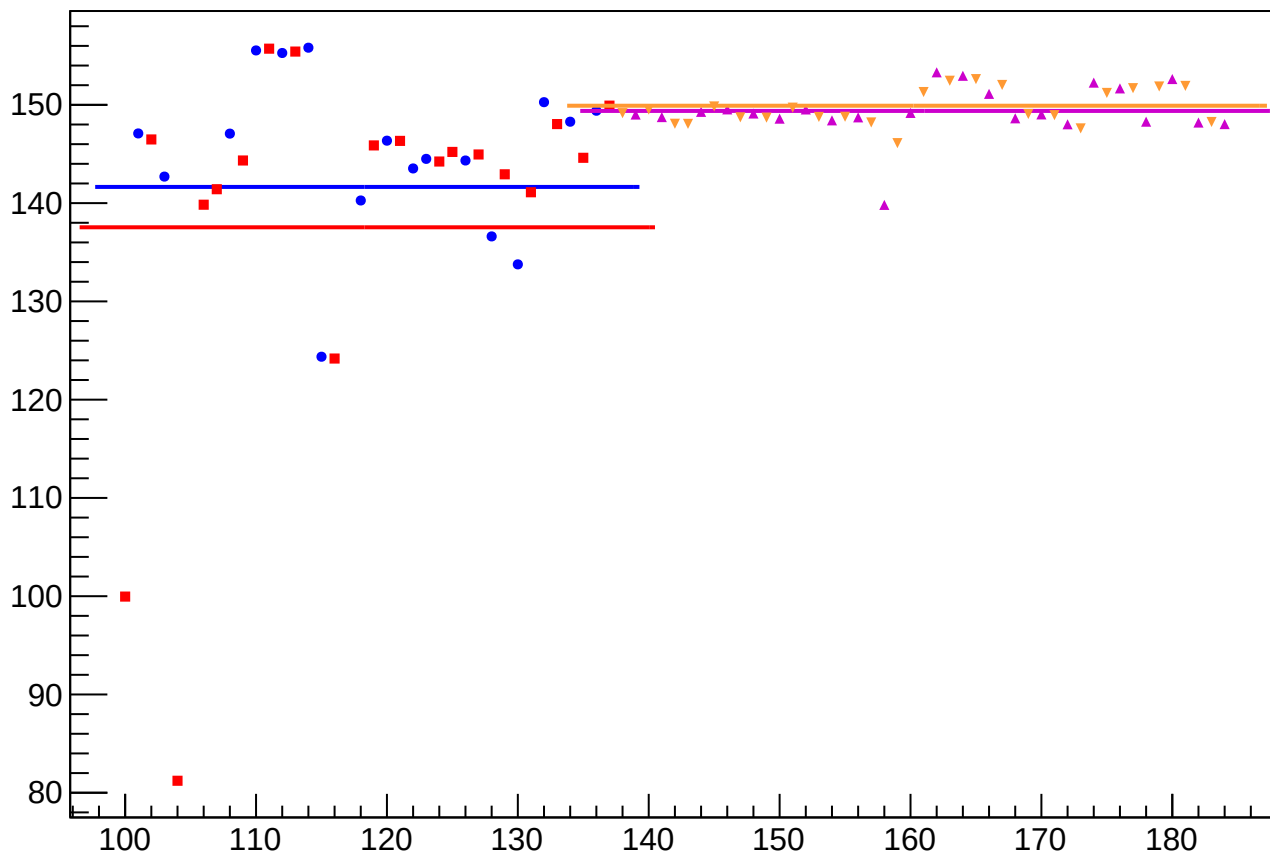
Right: 0.006+/-0.000 χ^2/NDF : 18299681.6/35

In: 0.007+/-0.000 χ^2/NDF : 36217719.9/39

Out: 0.007+/-0.000 χ^2/NDF : 37297202.0/42

All: 0.007+/-0.000 χ^2/NDF : 73515153.2/82

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.649 $\pm$ 0.000 χ^2 /NDF: 978960977.0/16

Left Out: 149.912 $\pm$ 0.000 χ^2 /NDF: 162261124.0/23

Right Out: 137.540 $\pm$ 0.000 χ^2 /NDF: 1319926808.9/18

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.655 $\pm$ 0.000 χ^2 /NDF: 603769248.6/46

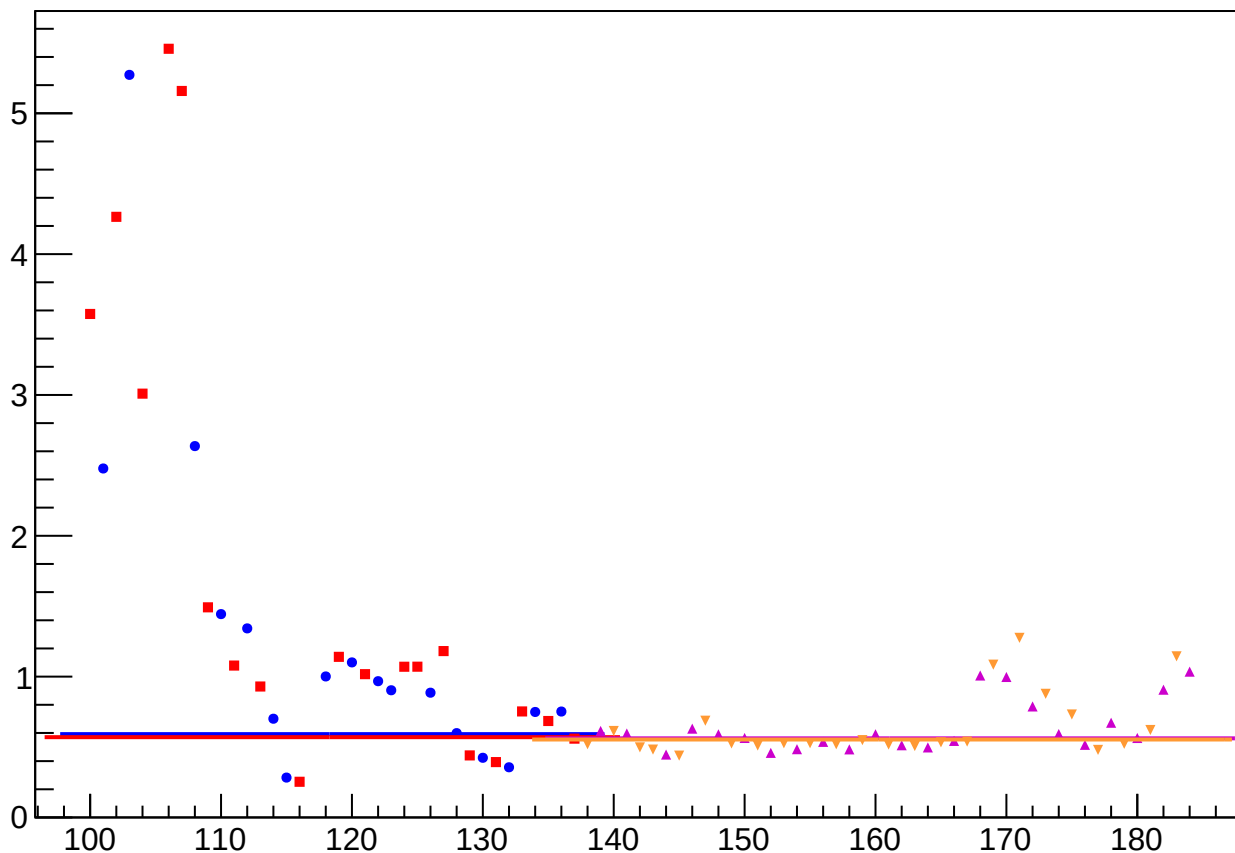
Right: 139.554 $\pm$ 0.000 χ^2 /NDF: 2385756401.6/35

In: 148.021 $\pm$ 0.000 χ^2 /NDF: 1911161711.4/39

Out: 147.774 $\pm$ 0.000 χ^2 /NDF: 2811399818.5/42

All: 147.894 $\pm$ 0.000 χ^2 /NDF: 4724365060.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3518726.1/16

Left Out: 0.554 $\pm$ 0.000 χ^2 /NDF:1669890.0/23

Right Out: 0.570 $\pm$ 0.000 χ^2 /NDF: 4645113.2/18

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.558 $\pm$ 0.000 χ^2 /NDF: 2978780.9/46

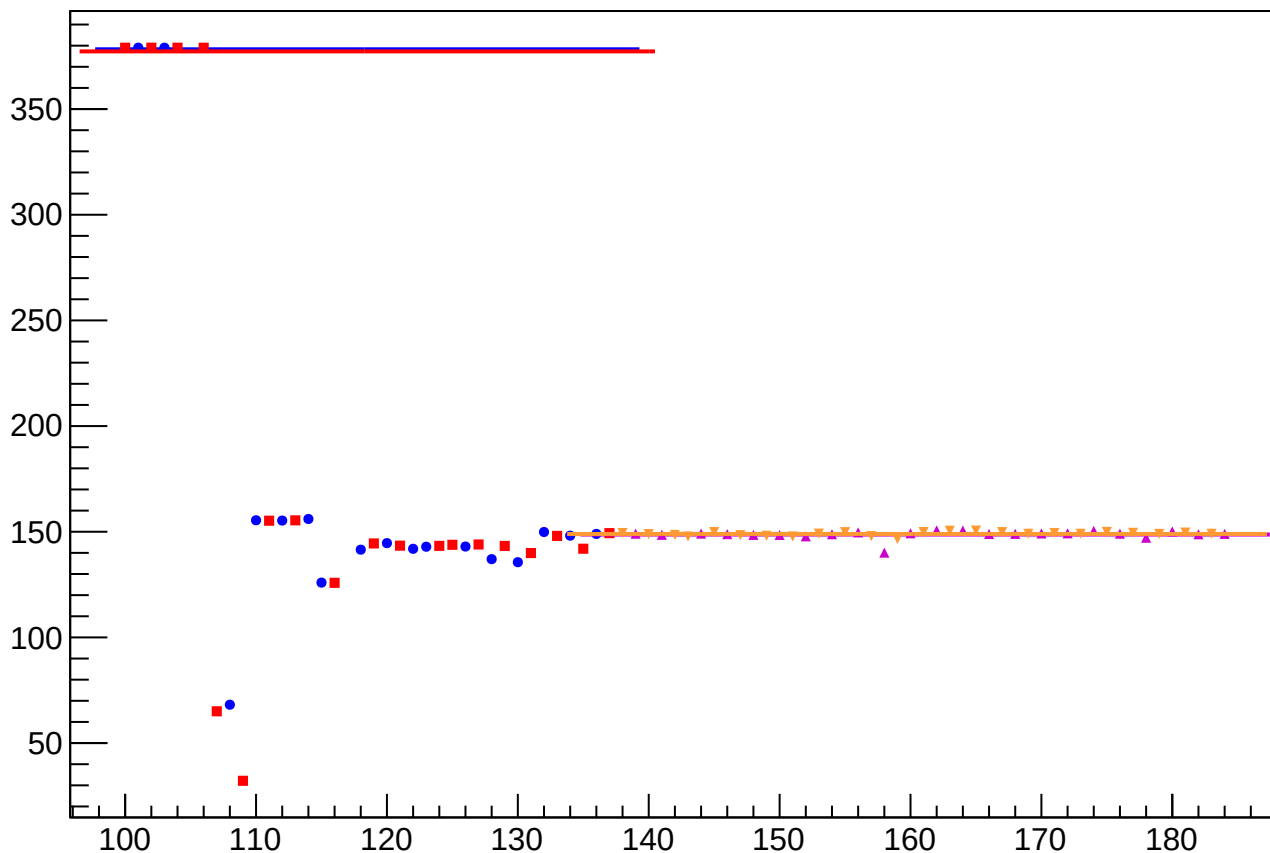
Right: 0.581 $\pm$ 0.000 χ^2 /NDF: 8168630.3/35

In: 0.567 $\pm$ 0.000 χ^2 /NDF:4839167.9/39

Out: 0.556 $\pm$ 0.000 χ^2 /NDF:6319772.1/42

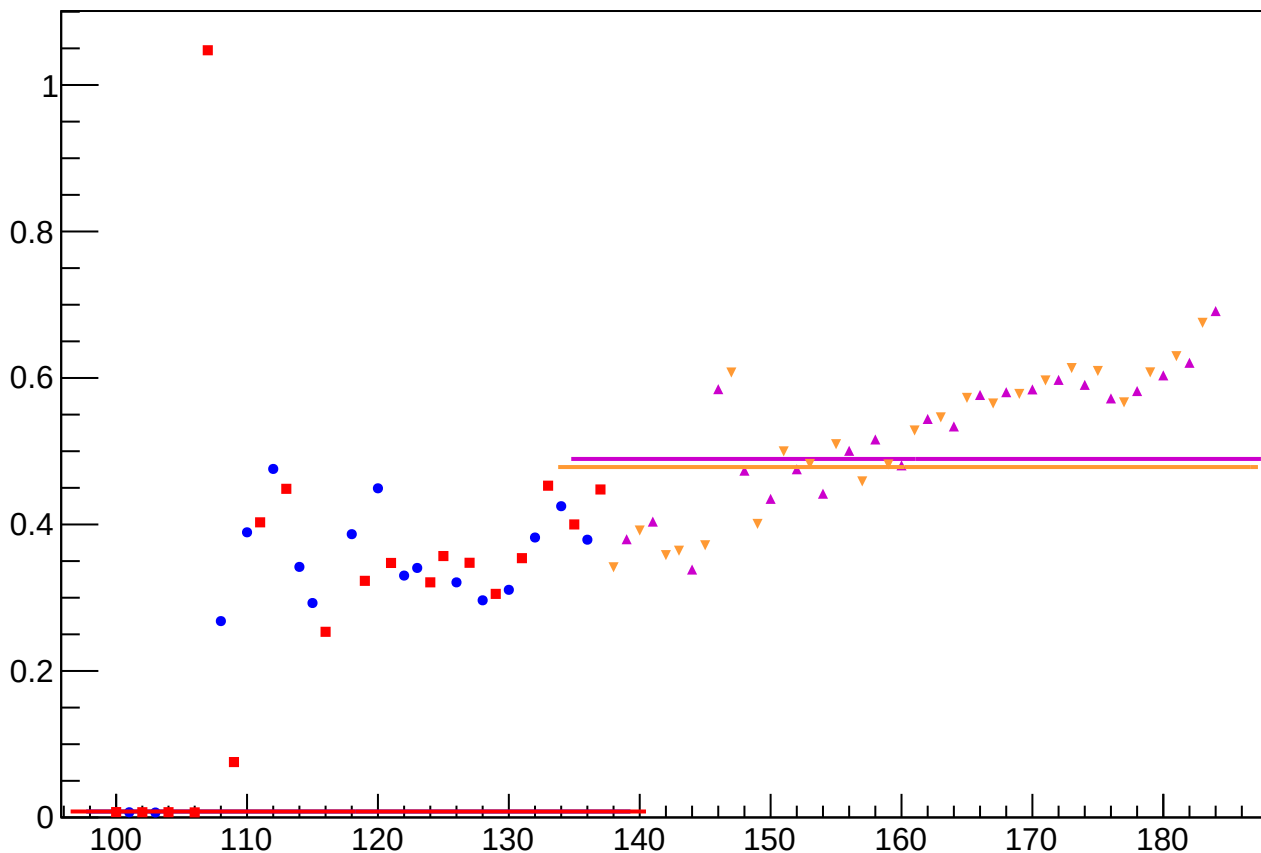
All: 0.562 $\pm$ 0.000 χ^2 /NDF: 11165631.0/82

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.288+/-0.000	χ^2/NDF : 2492505563660.4/16	Left: 148.814+/-0.000	χ^2/NDF : 320213431.4/46
Left Out: 148.946+/-0.000	χ^2/NDF : 64706412.4/23	Right: 377.756+/-0.000	χ^2/NDF : 10776659688303.4
Right Out: 377.290+/-0.000	χ^2/NDF : 8277094761031.6/18	In: 377.114+/-0.000	χ^2/NDF : 6080397382921.3/39
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 376.189+/-0.000	χ^2/NDF : 12095288409788.4
		All: 376.621+/-0.000	χ^2/NDF : 181817925504.4

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9842025.8/16

Left Out: 0.478 $\pm$ 0.000 χ^2 /NDF:1450799.6/23

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9491450.8/18

Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2535624.9/46

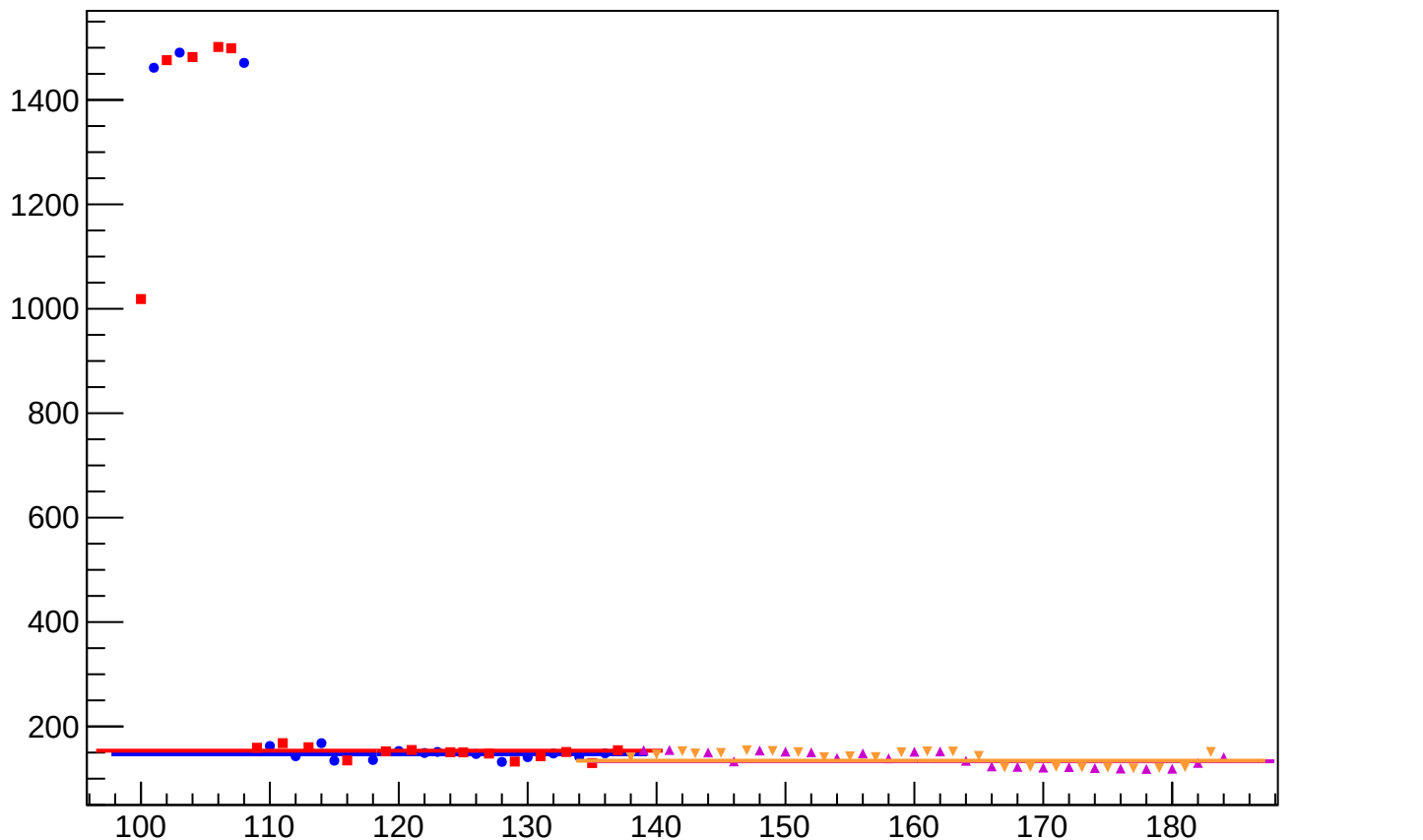
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19333484.2/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:42450195.1/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:43328561.4/42

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 85779161.8/82

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.782+/-0.000 χ^2/NDF : 24345208780.4/16

Left Out: 134.429+/-0.000 χ^2/NDF : 4320857168.5/23

Right Out: 153.596+/-0.000 χ^2/NDF : 33791266543.9/18

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.893+/-0.000 χ^2/NDF : 8638468827.8/46

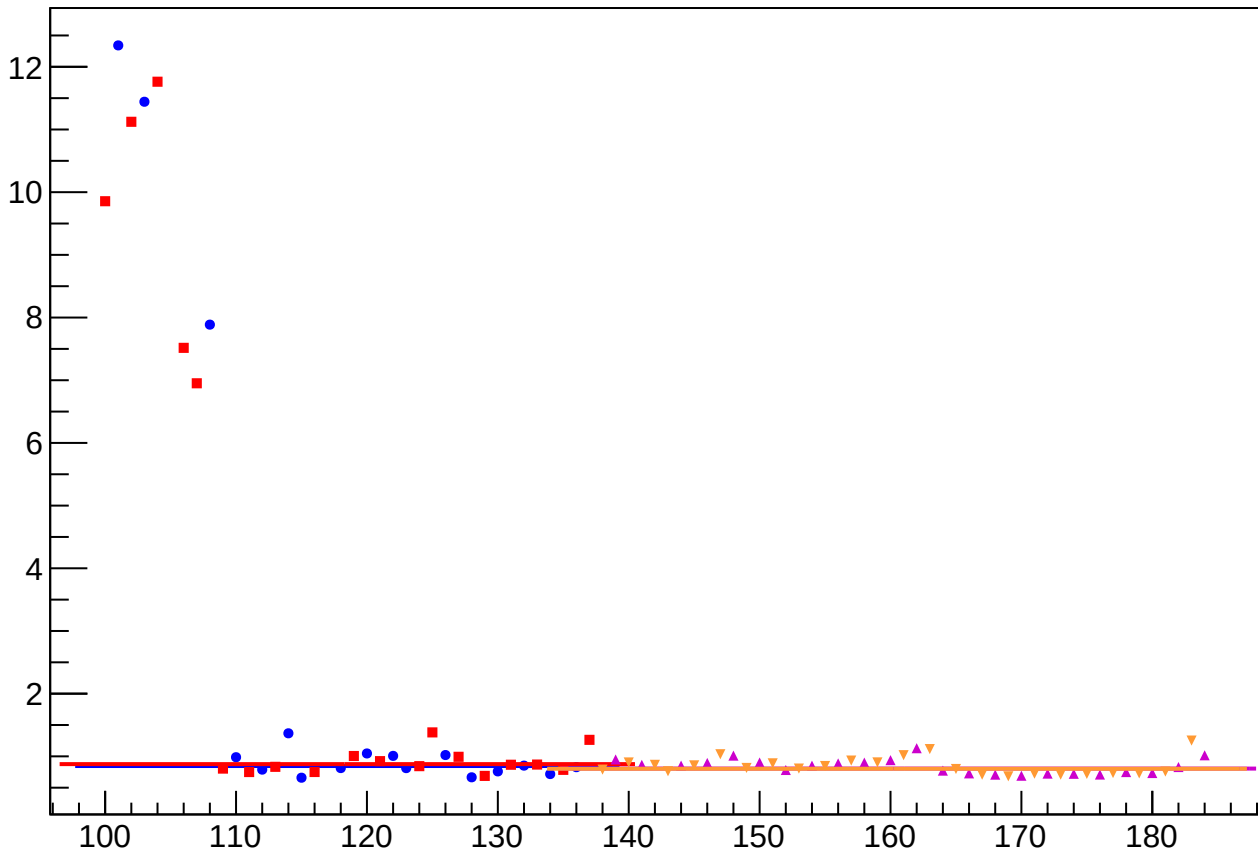
Right: 150.182+/-0.000 χ^2/NDF : 58259873830.0/35

In: 135.889+/-0.000 χ^2/NDF : 29429120581.8/39

Out: 137.952+/-0.000 χ^2/NDF : 39702972252.7/42

All: 136.935+/-0.000 χ^2/NDF : 69192669973.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.846+/-0.000 χ^2/NDF : 2658649.7/16

Left Out: 0.802+/-0.000 χ^2/NDF : 615085.4/23

Right Out: 0.876+/-0.000 χ^2/NDF : 2826804.8/18

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.803+/-0.000 χ^2/NDF : 1095751.0/46

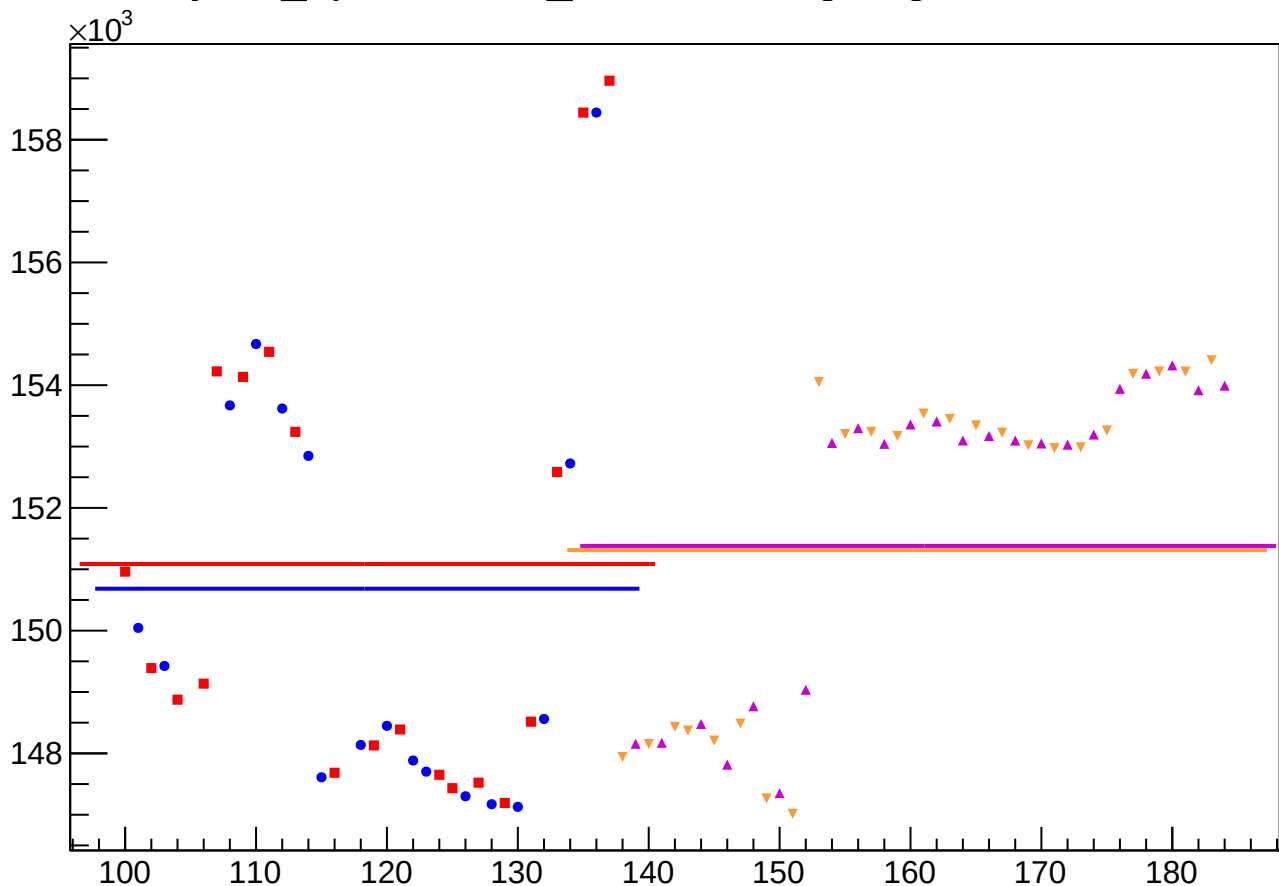
Right: 0.861+/-0.000 χ^2/NDF : 5490366.4/35

In: 0.813+/-0.000 χ^2/NDF : 3153585.6/39

Out: 0.816+/-0.000 χ^2/NDF : 3489145.5/42

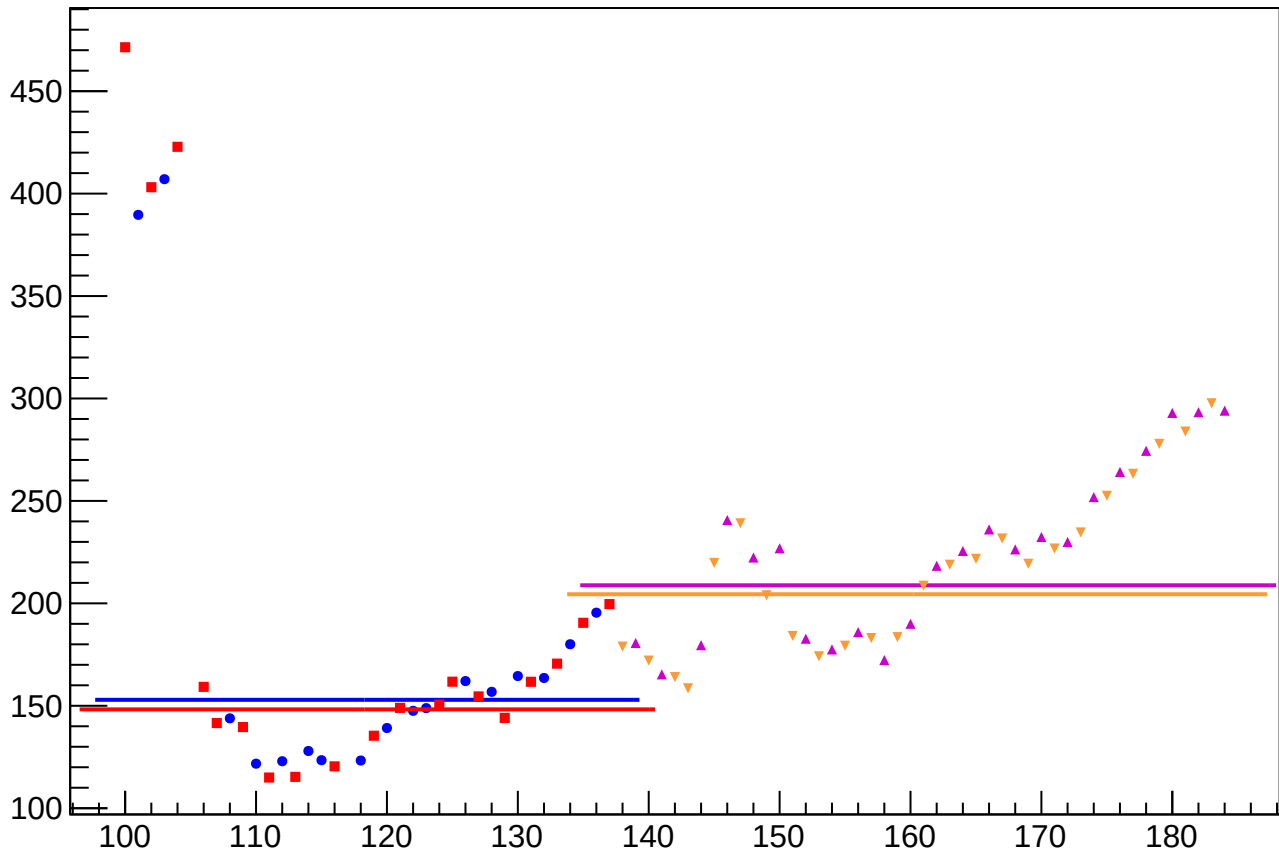
All: 0.814+/-0.000 χ^2/NDF : 6643028.2/82

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150683.304+/-0.063	χ^2/NDF : 3299311261.5/16	Left: 151345.023+/-0.035	χ^2/NDF : 5467965799.6/4
Left Out: 151312.717+/-0.049	χ^2/NDF : 3103162666.9/23	Right: 150895.868+/-0.043	χ^2/NDF : 6618337097.0/4
Right Out: 151086.261+/-0.060	χ^2/NDF : 3297509595.7/18	In: 151103.592+/-0.040	χ^2/NDF : 5736786186.6/39
Left In: 151380.236+/-0.051	χ^2/NDF : 2363895785.3/22	Out: 151221.523+/-0.038	χ^2/NDF : 6409262762.5/4
		All: 151165.378+/-0.027	χ^2/NDF : 121506600.0/100

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.916 $\pm$ 0.045 χ^2 /NDF: 1154367.4/16

Left Out: 204.442 $\pm$ 0.035 χ^2 /NDF:1008235.5/23

Right Out: 148.245 $\pm$ 0.042 χ^2 /NDF: 1189017.0/18

Left In: 208.813 $\pm$ 0.036 χ^2 /NDF:1001936.6/22

Left: 206.533 $\pm$ 0.025 χ^2 /NDF: 2017776.3/46

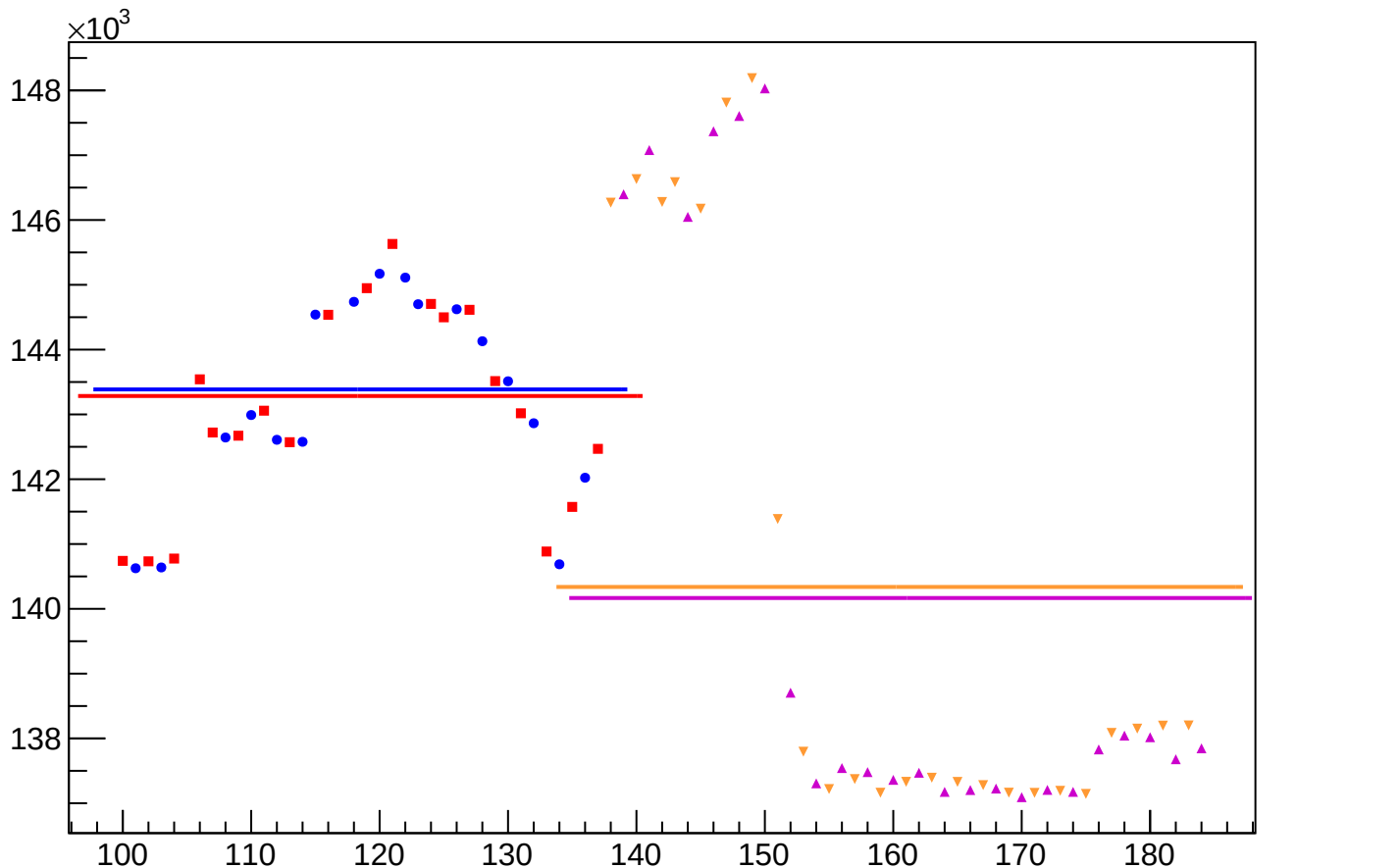
Right: 150.452 $\pm$ 0.031 χ^2 /NDF: 2349165.6/35

In: 186.625 $\pm$ 0.028 χ^2 /NDF:3102926.5/39

Out: 181.811 $\pm$ 0.027 χ^2 /NDF:3255287.9/42

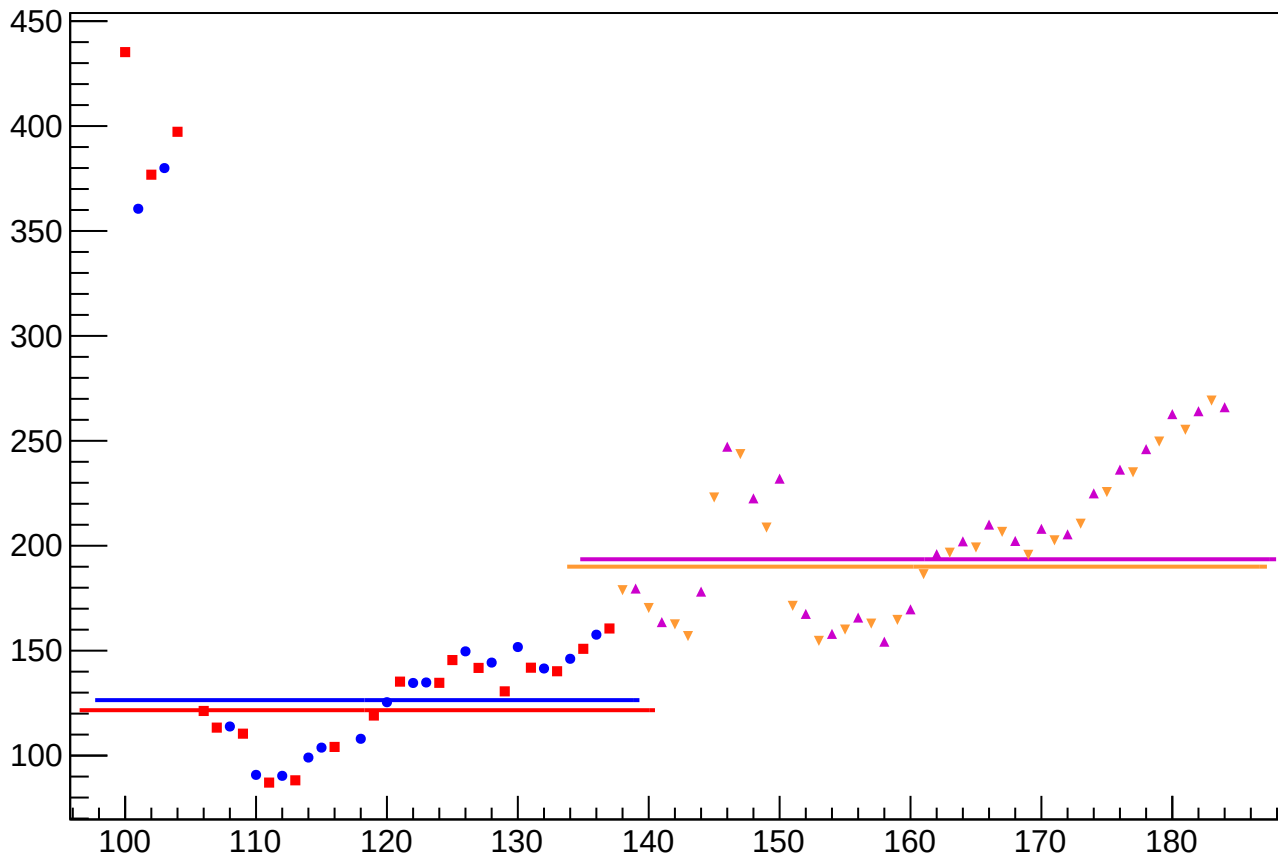
All: 184.103 $\pm$ 0.019 χ^2 /NDF: 6373576.6/82

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143385.822 $\pm$ 0.053	χ^2 /NDF: 520518329.3/16	Left: 140255.754 $\pm$ 0.033	χ^2 /NDF: 16572405533.8
Left Out: 140337.523 $\pm$ 0.046	χ^2 /NDF: 8537215325.0/23	Right: 143331.368 $\pm$ 0.036	χ^2 /NDF: 1130981734.7
Right Out: 143284.246 $\pm$ 0.049	χ^2 /NDF: 608478885.8/18	In: 141605.279 $\pm$ 0.035	χ^2 /NDF: 10605306380.5/3
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 141699.748 $\pm$ 0.033	χ^2 /NDF: 11081525208.7
		All: 141655.124 $\pm$ 0.024	χ^2 /NDF: 216906124

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.427 $\pm$ 0.037 χ^2 /NDF: 1442156.7/16

Left Out: 190.033 $\pm$ 0.032 χ^2 /NDF: 907802.8/23

Right Out: 121.629 $\pm$ 0.035 χ^2 /NDF: 1458546.9/18

Left In: 193.558 $\pm$ 0.034 χ^2 /NDF: 963675.0/22

Left: 191.723 $\pm$ 0.023 χ^2 /NDF: 1877223.5/46

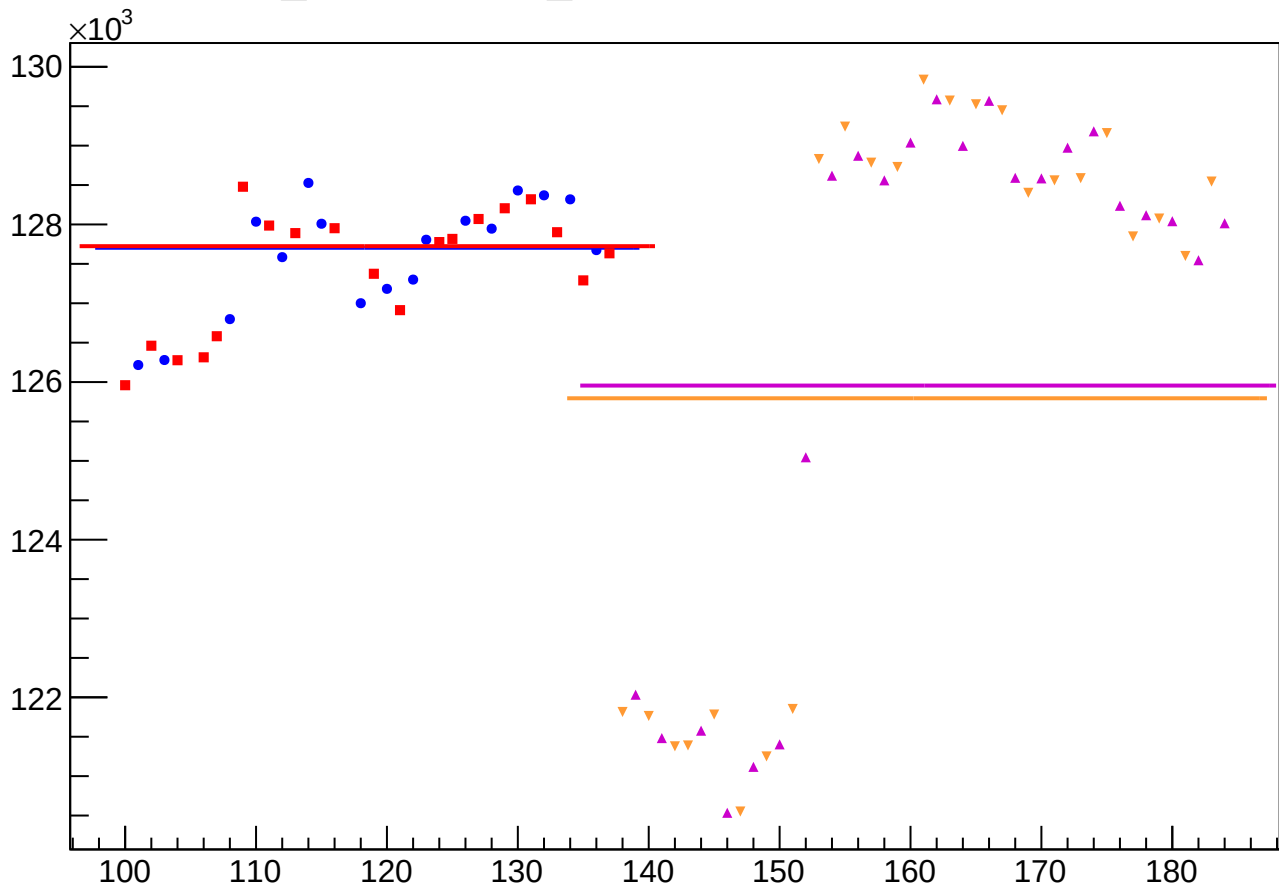
Right: 123.855 $\pm$ 0.025 χ^2 /NDF: 2909560.8/35

In: 163.562 $\pm$ 0.025 χ^2 /NDF: 4194638.5/39

Out: 158.411 $\pm$ 0.024 χ^2 /NDF: 4452692.0/42

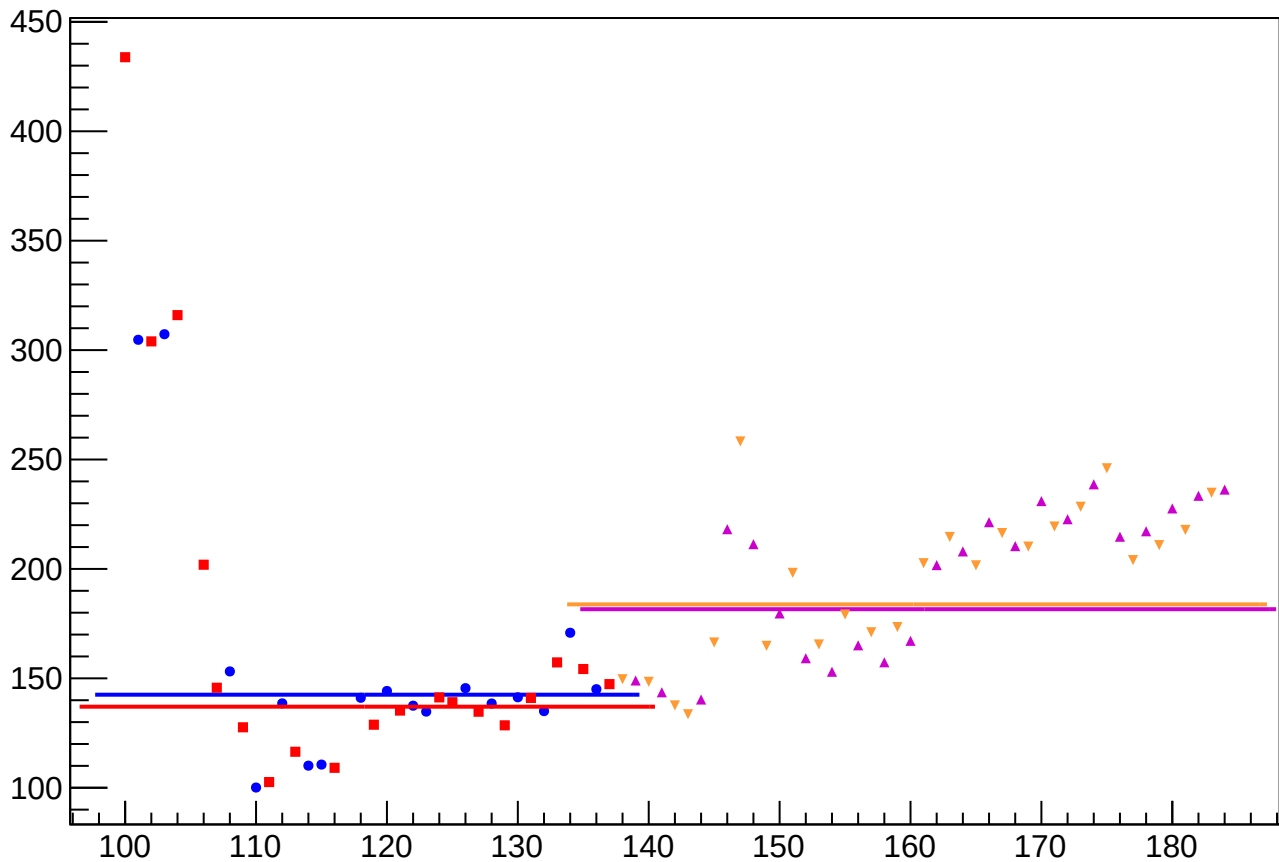
All: 160.844 $\pm$ 0.017 χ^2 /NDF: 8669807.7/82

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127704.536 $\pm$ 0.058	χ^2 /NDF: 97614287.1/16	Left: 125874.266 $\pm$ 0.032	χ^2 /NDF: 12417899372.6
Left Out: 125794.375 $\pm$ 0.044	χ^2 /NDF: 6607274058.5/23	Right: 127715.047 $\pm$ 0.040	χ^2 /NDF: 210322651.4/3
Right Out: 127724.288 $\pm$ 0.055	χ^2 /NDF: 112647022.0/18	In: 126606.791 $\pm$ 0.035	χ^2 /NDF: 6468962850.1/39
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 126563.349 $\pm$ 0.034	χ^2 /NDF: 7472854627.8/4
		All: 126584.409 $\pm$ 0.025	χ^2 /NDF: 13942589

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.524+/-0.041 χ^2/NDF : 836220.9/16

Left Out: 183.801+/-0.031 χ^2/NDF :1098245.4/23

Right Out: 137.050+/-0.039 χ^2/NDF : 956482.5/18

Left In: 181.596+/-0.032 χ^2/NDF :1103524.3/22

Left: 182.708+/-0.022 χ^2/NDF : 2204213.5/46

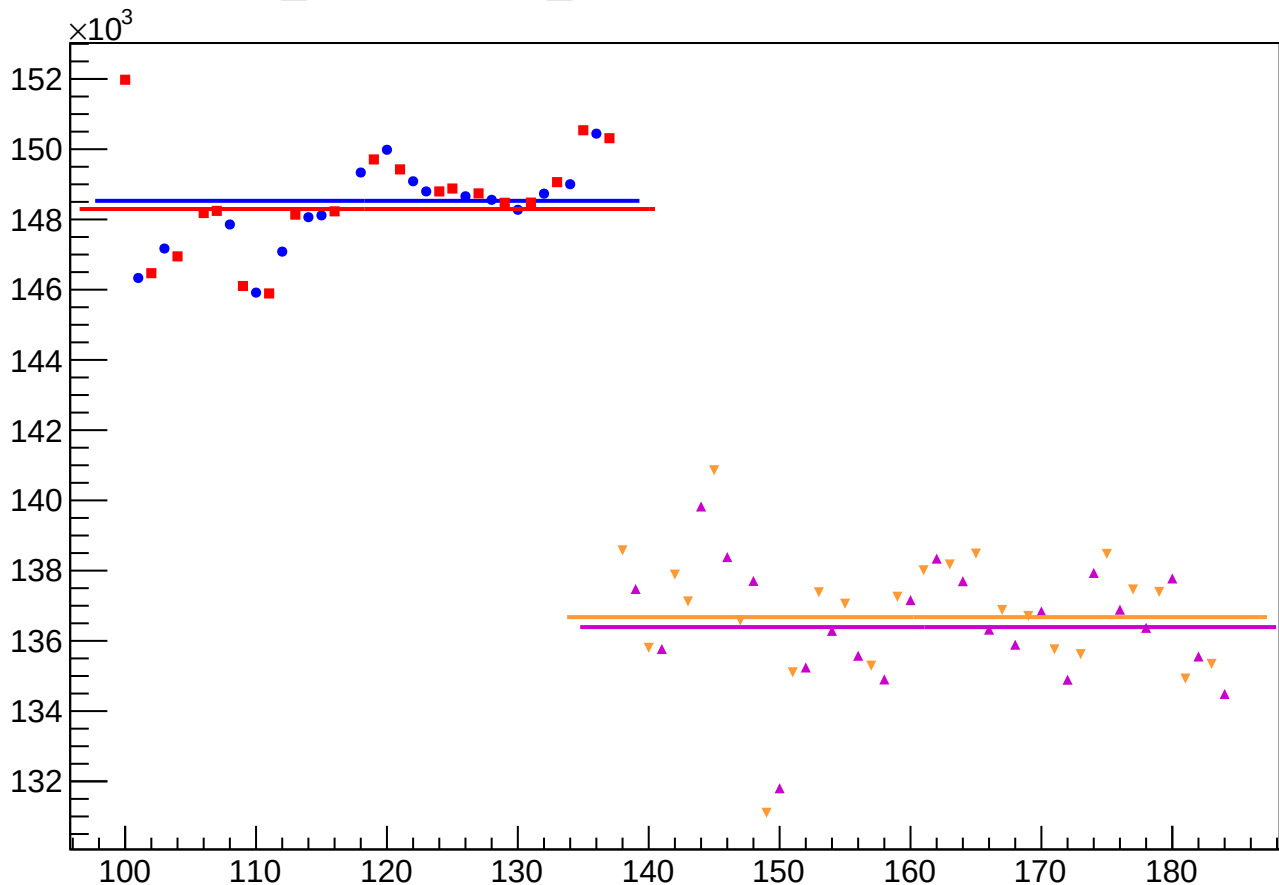
Right: 139.611+/-0.028 χ^2/NDF : 1802128.3/35

In: 167.049+/-0.025 χ^2/NDF :2505985.8/39

Out: 165.173+/-0.024 χ^2/NDF :2938399.5/42

All: 166.082+/-0.017 χ^2/NDF : 5447262.9/82

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148529.735 $\pm$ 0.082 χ^2 /NDF: 209963911.3/16

Left Out: 136675.780 $\pm$ 0.065 χ^2 /NDF: 913067828.3/23

Right Out: 148296.414 $\pm$ 0.076 χ^2 /NDF: 293172260.2/18

Left In: 136392.188 $\pm$ 0.066 χ^2 /NDF: 701986841.4/22

Left: 136535.460 $\pm$ 0.046 χ^2 /NDF: 1624391558.0/4

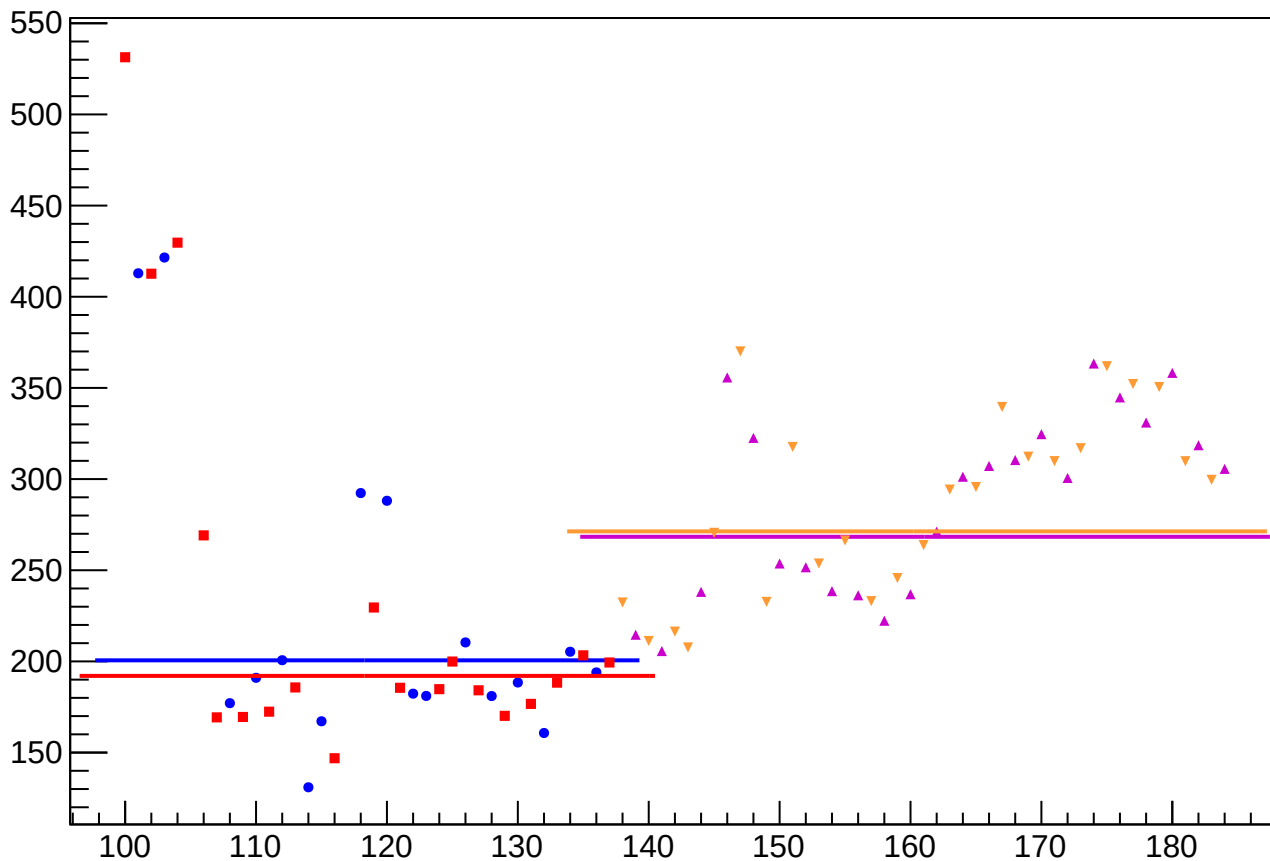
Right: 148404.511 $\pm$ 0.056 χ^2 /NDF: 507452913.3/3

In: 141142.039 $\pm$ 0.051 χ^2 /NDF: 14160163491.6/3

Out: 141577.216 $\pm$ 0.050 χ^2 /NDF: 14570306582.5

All: 141367.473 $\pm$ 0.036 χ^2 /NDF: 287675084

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.585+/-0.058 χ^2/NDF : 935452.3/16

Left Out: 271.314+/-0.046 χ^2/NDF : 1059027.3/23

Right Out: 192.054+/-0.054 χ^2/NDF : 845373.5/18

Left In: 268.344+/-0.047 χ^2/NDF : 1077364.0/22

Left: 269.844+/-0.033 χ^2/NDF : 2138439.8/46

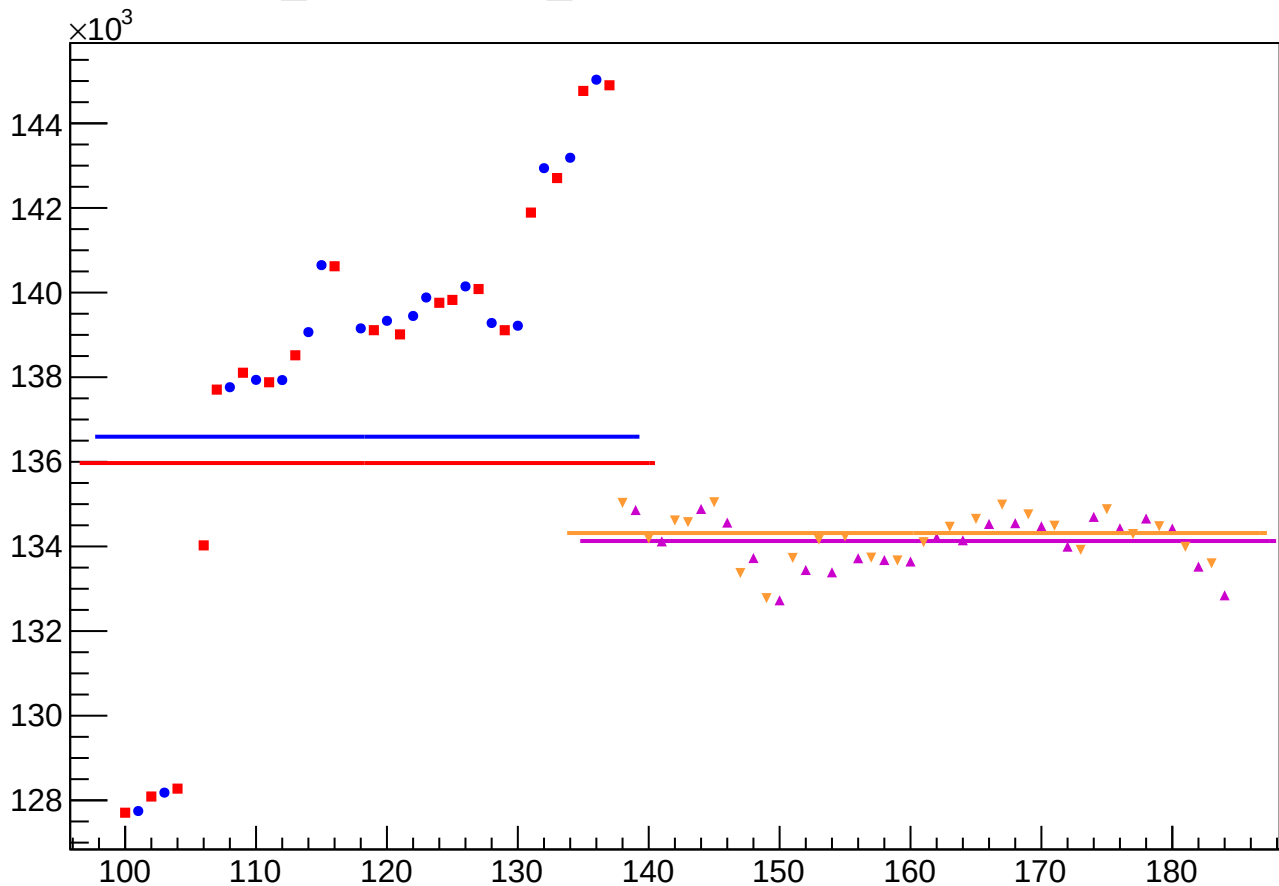
Right: 196.006+/-0.040 χ^2/NDF : 1792367.6/35

In: 241.827+/-0.036 χ^2/NDF : 2838580.2/39

Out: 237.883+/-0.035 χ^2/NDF : 3147816.7/42

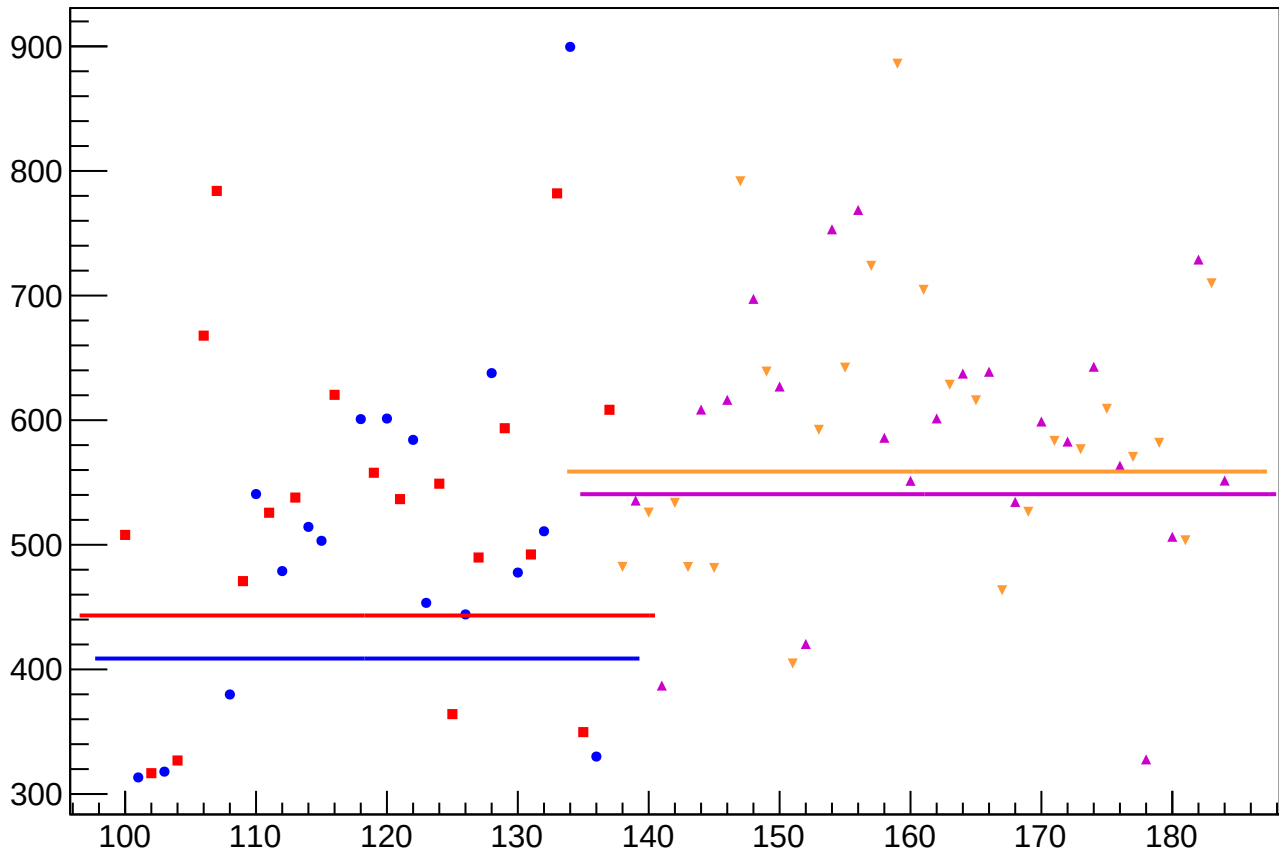
All: 239.784+/-0.025 χ^2/NDF : 5992481.8/82

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136593.896 $\pm$ 0.172	χ^2 /NDF: 1493317567.5/16	Left: 134223.671 $\pm$ 0.100	χ^2 /NDF: 31736117.4/46
Left Out: 134317.020 $\pm$ 0.140	χ^2 /NDF: 15307822.8/23	Right: 136301.988 $\pm$ 0.125	χ^2 /NDF: 2580296104.5/
Right Out: 135970.927 $\pm$ 0.183	χ^2 /NDF: 1080815746.9/18	In: 135129.018 $\pm$ 0.109	χ^2 /NDF: 1631259474.2/39
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 134929.988 $\pm$ 0.111	χ^2 /NDF: 1147568109.0/4
		All: 135031.240 $\pm$ 0.078	χ^2 /NDF: 278045239.0/

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.721 $\pm$ 0.121 χ^2/NDF : 830375.0/16

Left Out: 558.766 $\pm$ 0.099 χ^2/NDF : 974929.9/23

Right Out: 443.274 $\pm$ 0.129 χ^2/NDF : 916555.3/18

Left In: 540.607 $\pm$ 0.100 χ^2/NDF : 1409015.2/22

Left: 549.790 $\pm$ 0.071 χ^2/NDF : 2400487.4/46

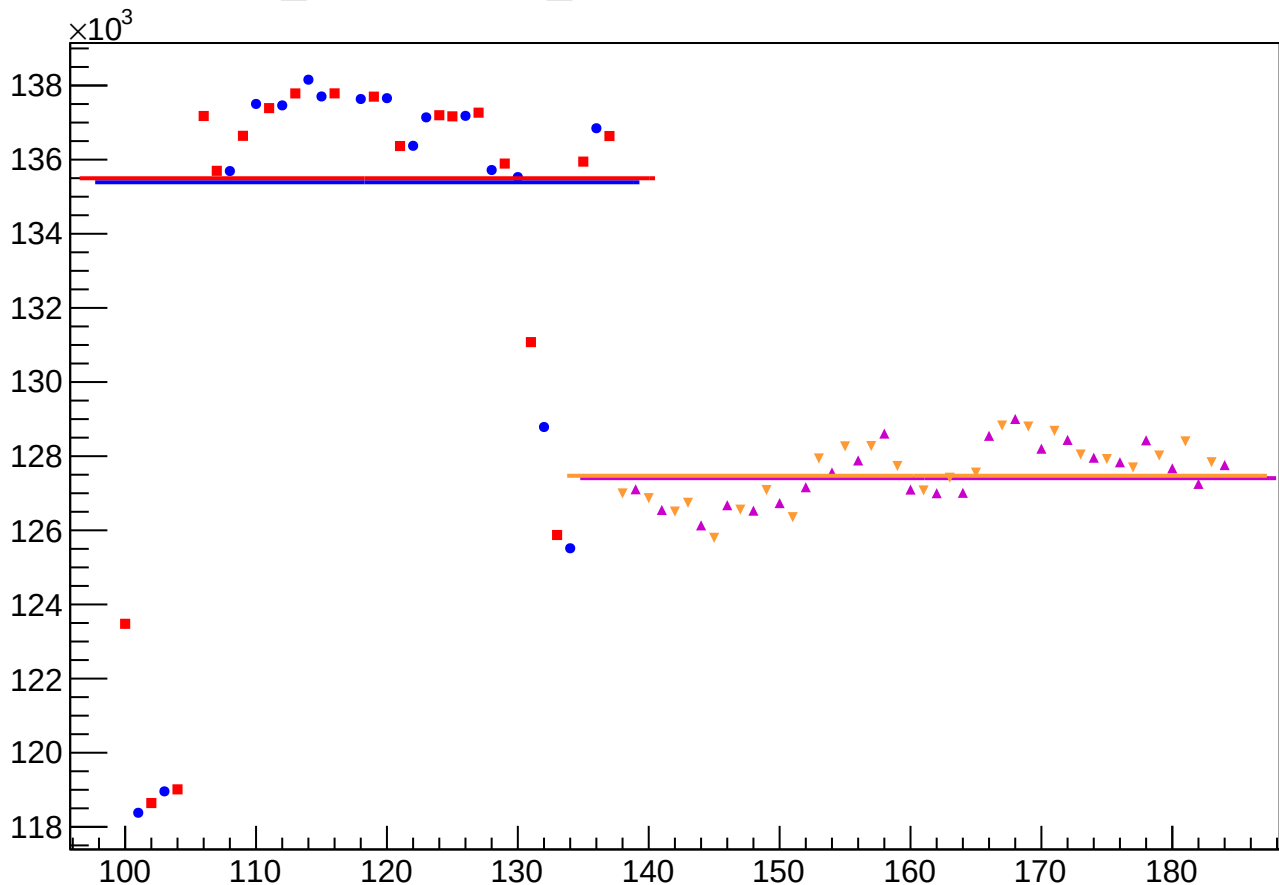
Right: 424.912 $\pm$ 0.089 χ^2/NDF : 1784847.3/35

In: 487.074 $\pm$ 0.077 χ^2/NDF : 2939793.0/39

Out: 515.962 $\pm$ 0.079 χ^2/NDF : 2393194.8/42

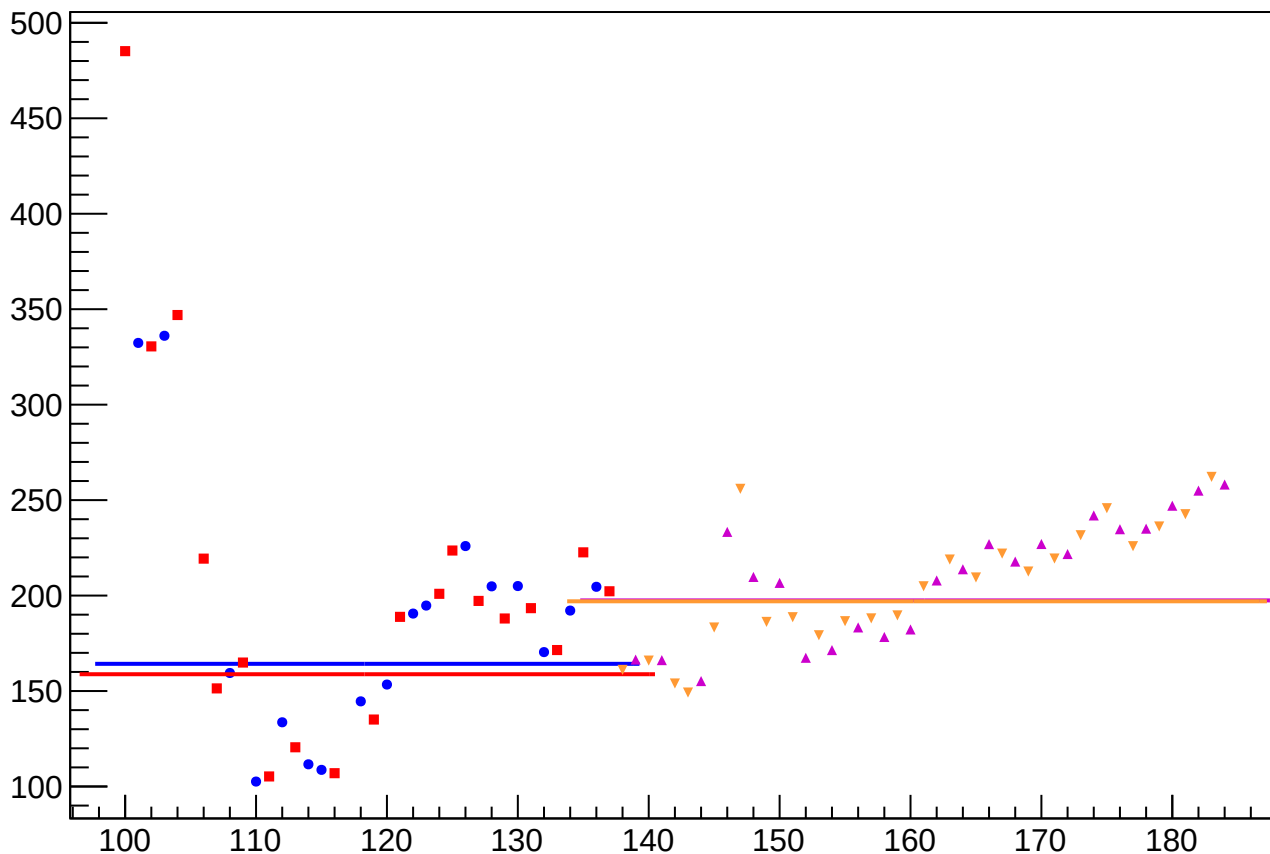
All: 501.266 $\pm$ 0.055 χ^2/NDF : 5401448.0/82

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135389.443 $\pm$ 0.068	χ^2 /NDF: 4578120272.5/16	Left: 127440.220 $\pm$ 0.034	χ^2 /NDF: 569396732.5/40
Left Out: 127471.995 $\pm$ 0.047	χ^2 /NDF: 298541935.8/23	Right: 135446.829 $\pm$ 0.047	χ^2 /NDF: 9318066155.5/10
Right Out: 135497.758 $\pm$ 0.064	χ^2 /NDF: 4738615601.8/18	In: 130069.854 $\pm$ 0.039	χ^2 /NDF: 13936116366.8/30
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130279.773 $\pm$ 0.038	χ^2 /NDF: 15136161084.1/20
		All: 130178.580 $\pm$ 0.027	χ^2 /NDF: 290869200.0/10

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.250+/-0.048 χ^2/NDF : 1227814.4/16

Left Out: 197.003+/-0.033 χ^2/NDF : 817662.2/23

Right Out: 158.804+/-0.046 χ^2/NDF : 1376920.6/18

Left In: 197.471+/-0.034 χ^2/NDF : 791577.5/22

Left: 197.232+/-0.024 χ^2/NDF : 1609335.4/46

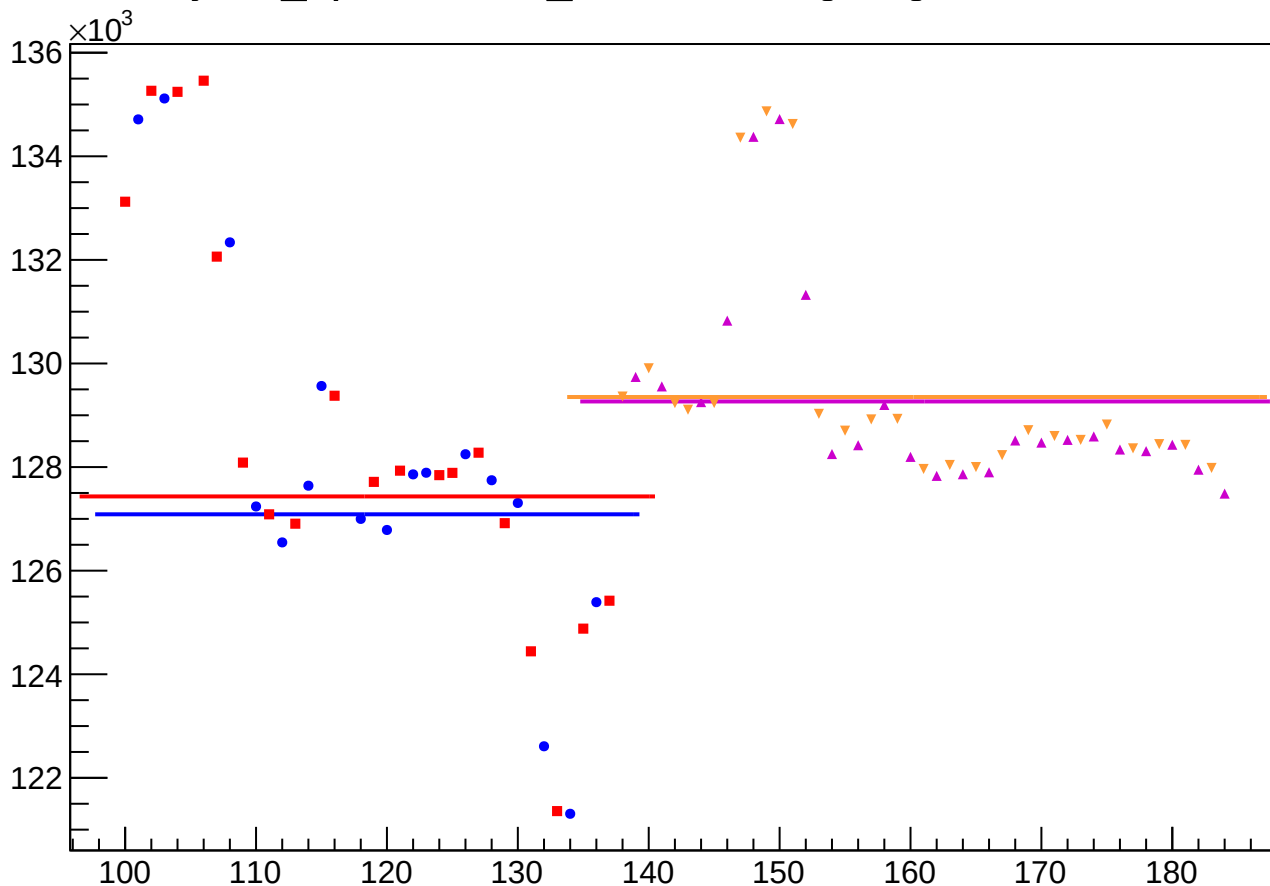
Right: 161.365+/-0.033 χ^2/NDF : 2611460.2/35

In: 186.389+/-0.028 χ^2/NDF : 2334204.3/39

Out: 183.639+/-0.027 χ^2/NDF : 2652138.8/42

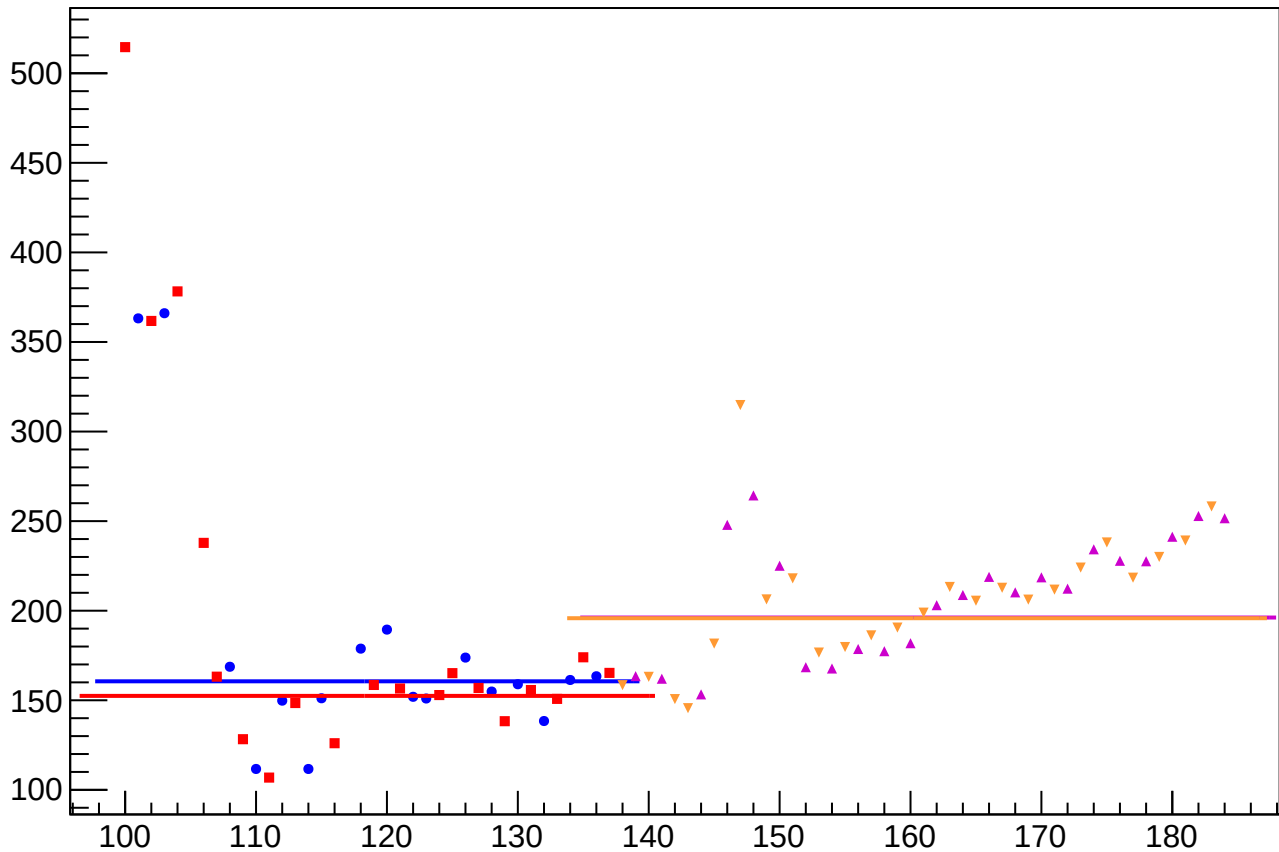
All: 184.965+/-0.019 χ^2/NDF : 4991365.5/82

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127088.167 $\pm$ 0.066	χ^2 /NDF: 1716591601.9/16	Left: 129310.695 $\pm$ 0.034	χ^2 /NDF: 2656699656.4/4
Left Out: 129352.613 $\pm$ 0.047	χ^2 /NDF: 1441318554.0/23	Right: 127273.865 $\pm$ 0.045	χ^2 /NDF: 3812853475.7/4
Right Out: 127433.358 $\pm$ 0.062	χ^2 /NDF: 2081739412.0/18	In: 128516.523 $\pm$ 0.039	χ^2 /NDF: 3635397599.5/39
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 128643.823 $\pm$ 0.037	χ^2 /NDF: 4135866383.7/4
		All: 128582.792 $\pm$ 0.027	χ^2 /NDF: 777681322

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.589 $\pm$ 0.047 χ^2 /NDF: 942522.1/16

Left Out: 195.810 $\pm$ 0.033 χ^2 /NDF: 945419.0/23

Right Out: 152.452 $\pm$ 0.044 χ^2 /NDF: 1084973.3/18

Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

Left: 195.994 $\pm$ 0.024 χ^2 /NDF: 1843539.2/46

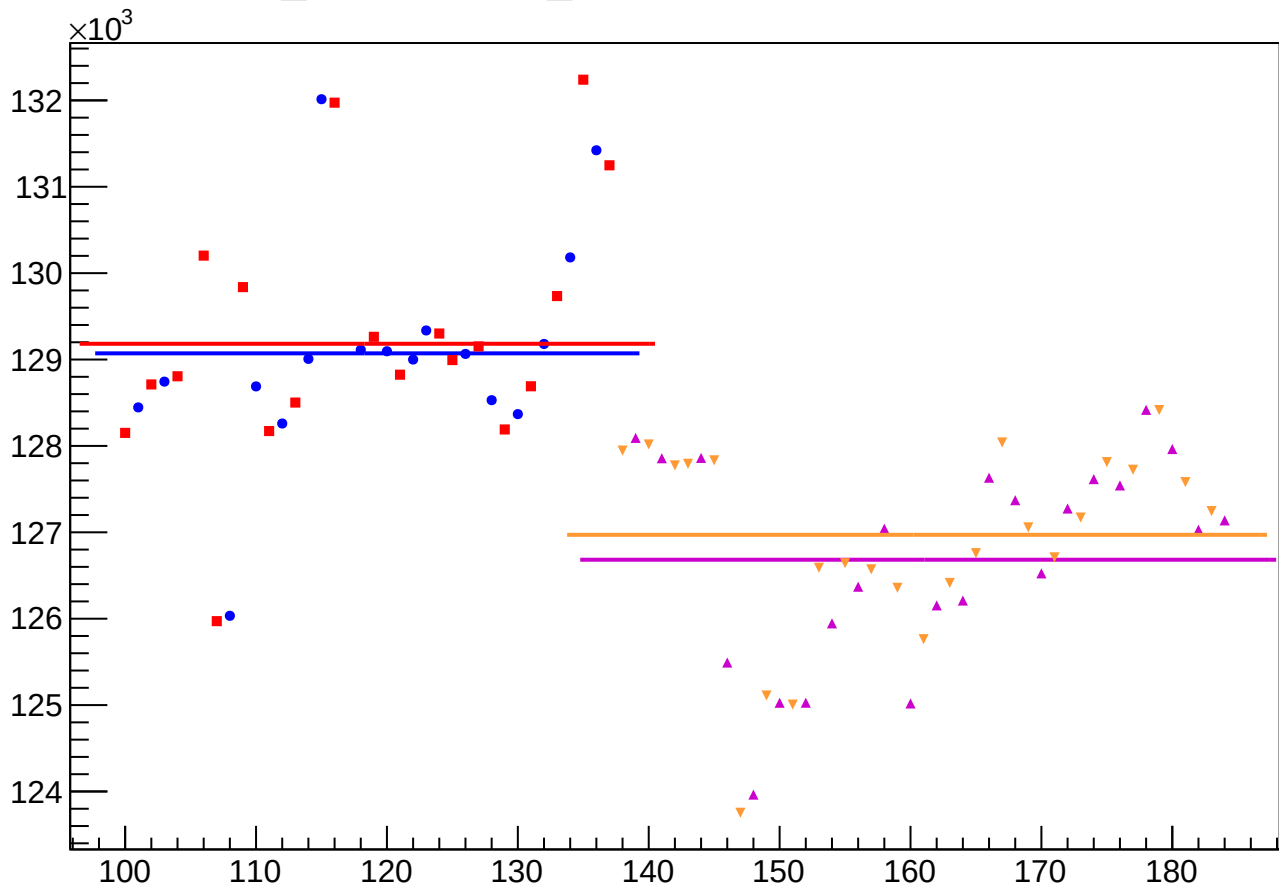
Right: 156.211 $\pm$ 0.032 χ^2 /NDF: 2043633.6/35

In: 183.926 $\pm$ 0.028 χ^2 /NDF: 2217000.3/39

Out: 179.798 $\pm$ 0.026 χ^2 /NDF: 2655904.6/42

All: 181.777 $\pm$ 0.019 χ^2 /NDF: 4884575.9/82

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129071.617 $\pm$ 0.060 χ^2 /NDF: 476291091.1/16

Left Out: 126971.022 $\pm$ 0.046 χ^2 /NDF: 527298845.7/23

Right Out: 129182.486 $\pm$ 0.056 χ^2 /NDF: 625425272.9/18

Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22

Left: 126830.220 $\pm$ 0.033 χ^2 /NDF: 1206983131.9/4

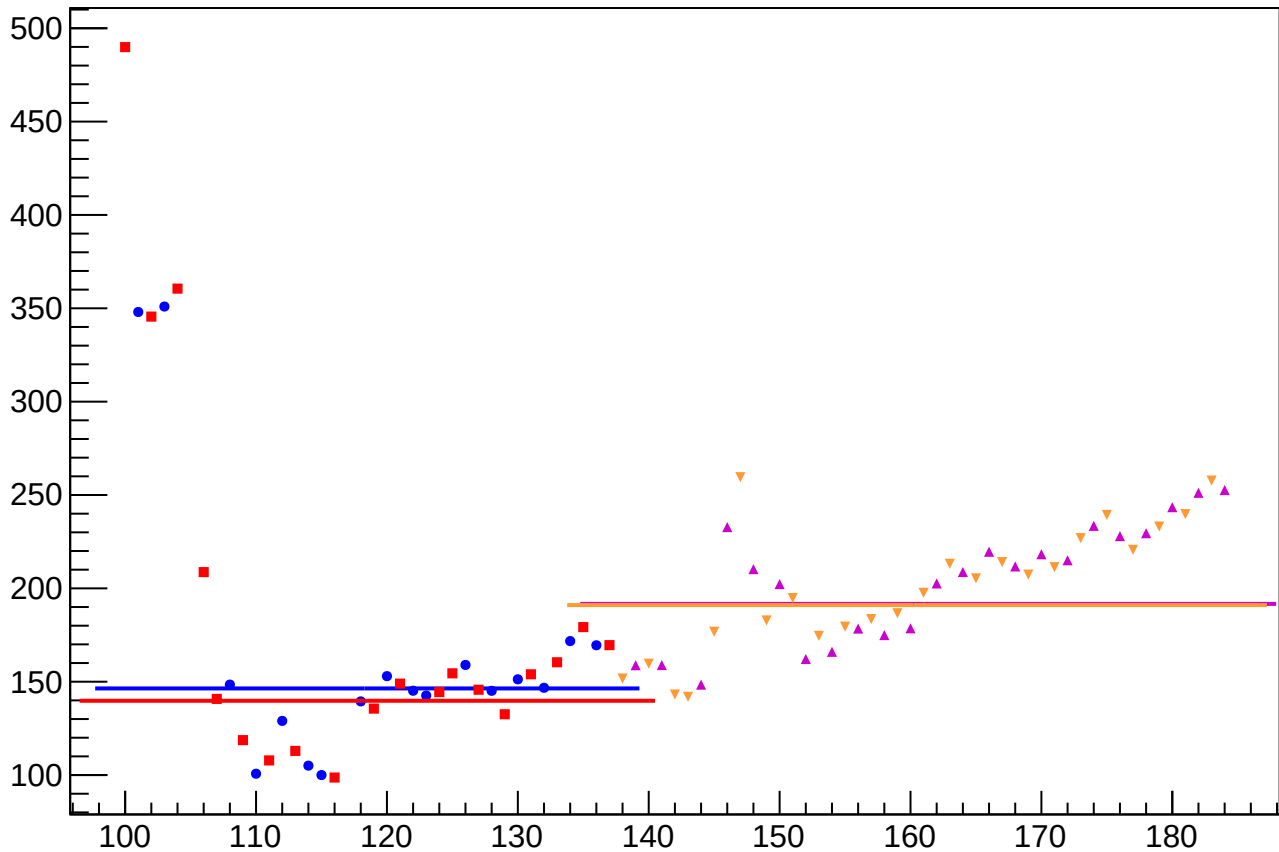
Right: 129130.997 $\pm$ 0.041 χ^2 /NDF: 1103528566.8/

In: 127585.833 $\pm$ 0.037 χ^2 /NDF: 2113757154.9/3

Out: 127857.400 $\pm$ 0.036 χ^2 /NDF: 2082969399.8/4

All: 127727.326 $\pm$ 0.026 χ^2 /NDF: 42247035

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.401 $\pm$ 0.043 χ^2/NDF : 1066973.0/16

Left Out: 191.038 $\pm$ 0.032 χ^2/NDF :952145.9/23

Right Out: 139.793 $\pm$ 0.040 χ^2/NDF : 1200865.0/18

Left In: 191.683 $\pm$ 0.033 χ^2/NDF :864384.9/22

Left: 191.353 $\pm$ 0.023 χ^2/NDF : 1816723.5/46

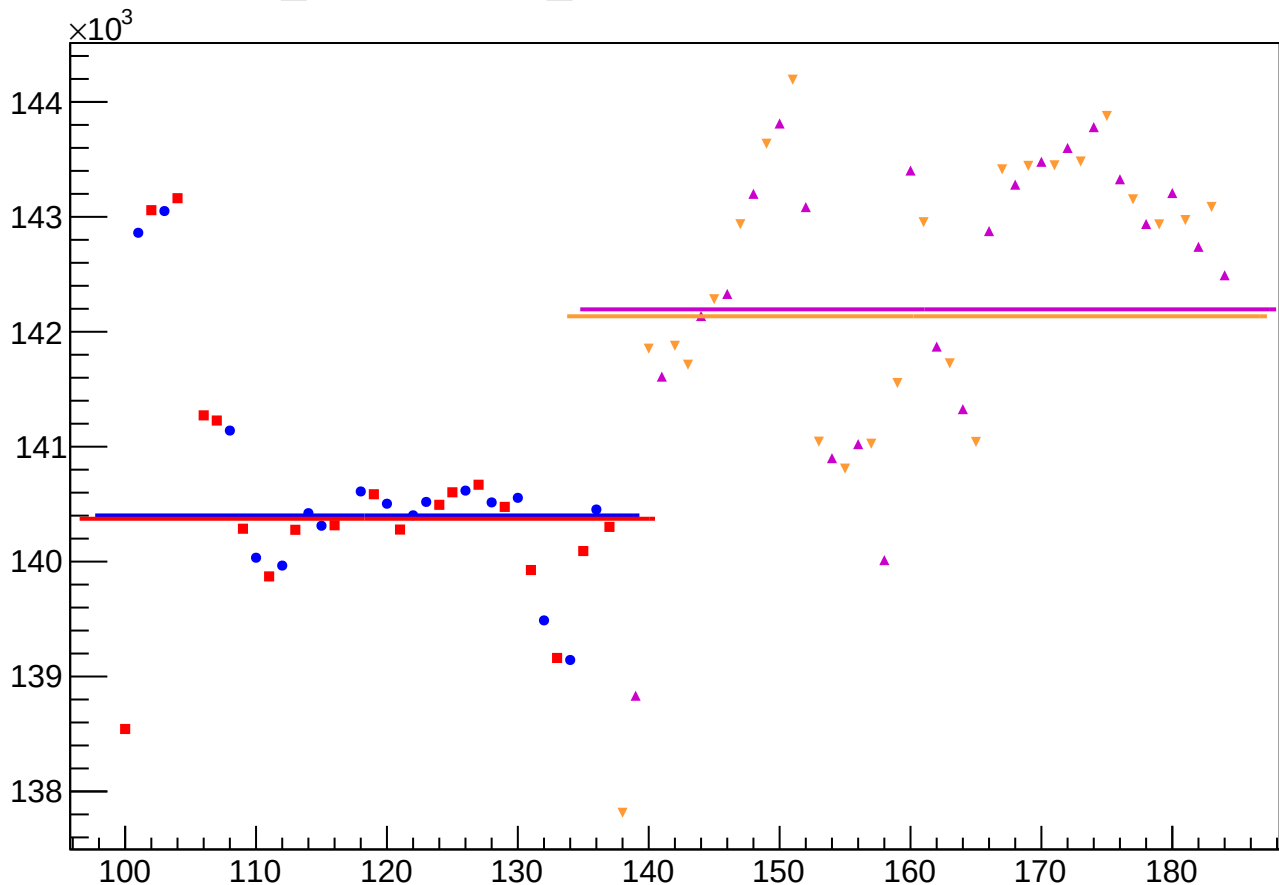
Right: 142.862 $\pm$ 0.029 χ^2/NDF : 2280713.0/35

In: 174.563 $\pm$ 0.026 χ^2/NDF :2633414.5/39

Out: 170.498 $\pm$ 0.025 χ^2/NDF :3152015.1/42

All: 172.445 $\pm$ 0.018 χ^2/NDF : 5797966.4/82

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140401.573 $\pm$ 0.064

χ^2 /NDF: 88055814.0/16

Left Out: 142134.624 $\pm$ 0.053

χ^2 /NDF: 813216665.9/23

Right Out: 140372.890 $\pm$ 0.060

χ^2 /NDF: 99844698.8/18

Left In: 142195.020 $\pm$ 0.054

χ^2 /NDF: 644030906.9/22

Left: 142164.191 $\pm$ 0.038

χ^2 /NDF: 1457889357.5/4

Right: 140386.177 $\pm$ 0.044

χ^2 /NDF: 188006778.1/3

In: 141457.690 $\pm$ 0.041

χ^2 /NDF: 1187891172.8/39

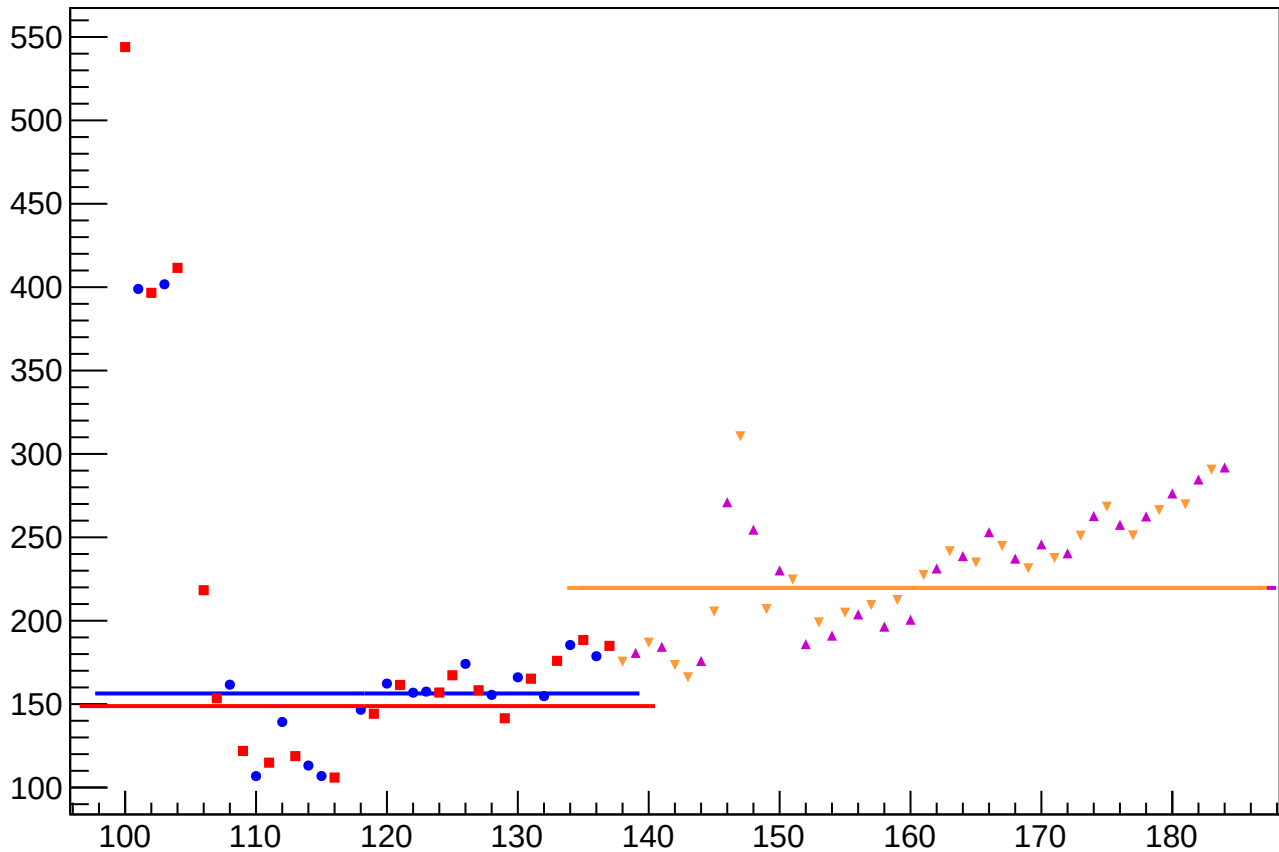
Out: 141364.930 $\pm$ 0.040

χ^2 /NDF: 1400404193.9/4

All: 141409.305 $\pm$ 0.029

χ^2 /NDF: 259092249

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.377 ± 0.046 $\chi^2/\text{NDF}: 1154470.5/16$

Left Out: 219.621 ± 0.037 $\chi^2/\text{NDF}: 836502.2/23$

Right Out: 148.800 ± 0.042 $\chi^2/\text{NDF}: 1304529.7/18$

Left In: 191.061 ± 0.020 $\chi^2/\text{NDF}: 812745.1/22$

Left: 219.652 ± 0.027 $\chi^2/\text{NDF}: 1649248.7/46$

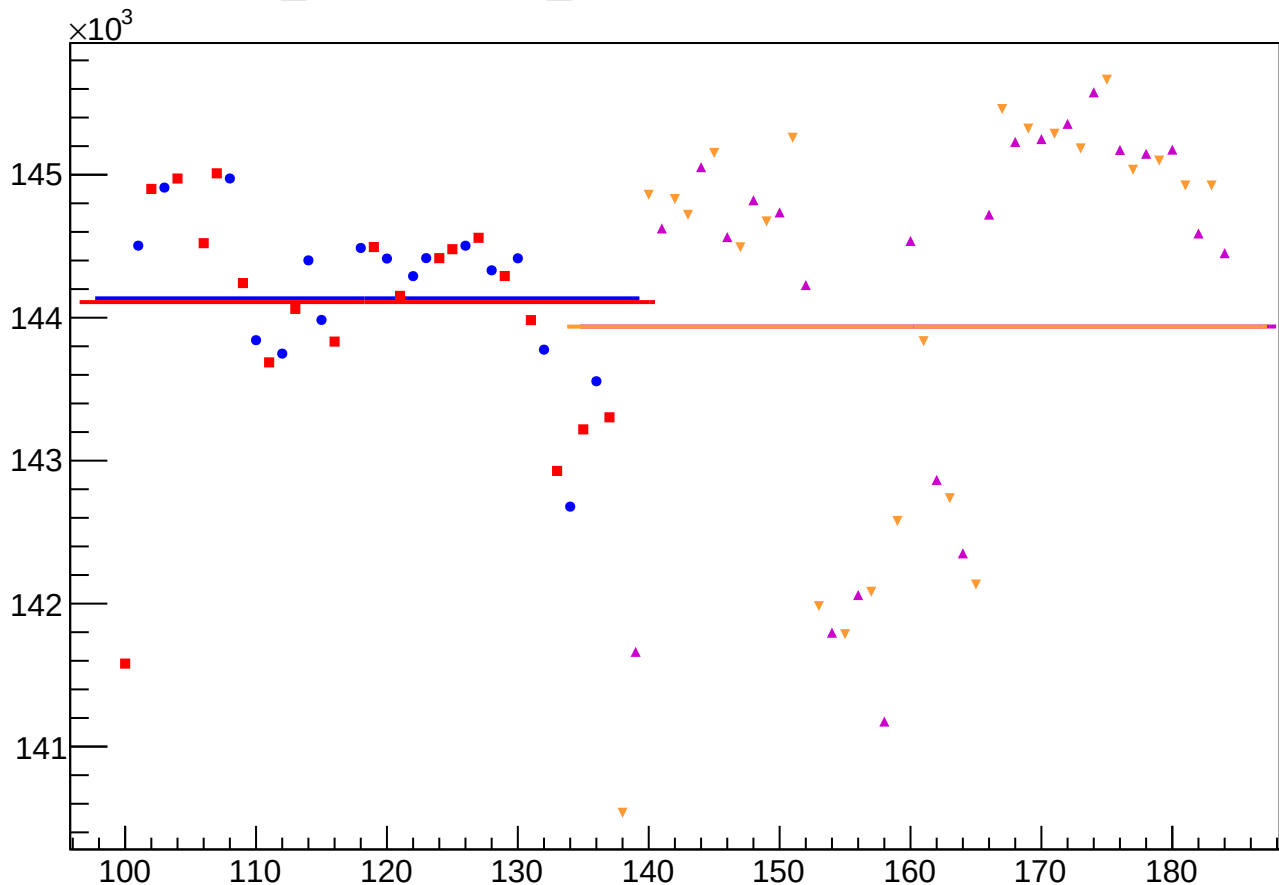
Right: 152.310 ± 0.031 $\chi^2/\text{NDF}: 2473830.9/35$

In: 193.657 ± 0.029 $\chi^2/\text{NDF}: 3103137.9/39$

Out: 188.680 ± 0.028 $\chi^2/\text{NDF}: 3716150.5/42$

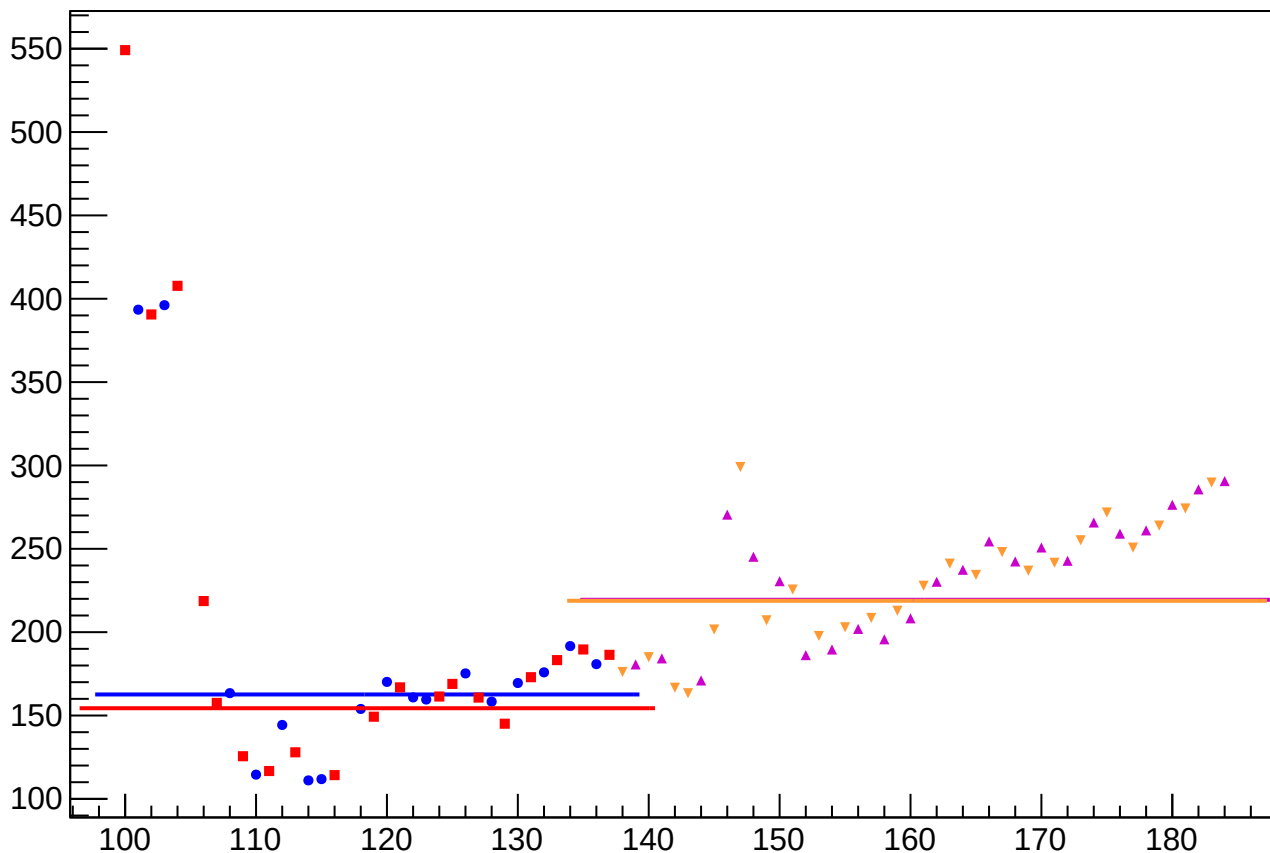
All: 191.061 ± 0.020 $\chi^2/\text{NDF}: 6834417.2/82$

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144135.363 $\pm$ 0.067	χ^2 /NDF: 47030717.0/16	Left: 143937.970 $\pm$ 0.038	χ^2 /NDF: 1580501905.3/4
Left Out: 143937.668 $\pm$ 0.053	χ^2 /NDF: 860687151.7/23	Right: 144121.238 $\pm$ 0.045	χ^2 /NDF: 112346812.4/3
Right Out: 144109.137 $\pm$ 0.062	χ^2 /NDF: 65233259.1/18	In: 144015.793 $\pm$ 0.042	χ^2 /NDF: 772114461.7/39
Left In: 143938.288 $\pm$ 0.054	χ^2 /NDF: 719814685.6/22	Out: 144009.545 $\pm$ 0.040	χ^2 /NDF: 930377894.1/42
		All: 144012.527 $\pm$ 0.029	χ^2 /NDF: 170250395

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.634+/-0.047 χ^2/NDF : 1069524.2/16

Left Out: 218.829+/-0.037 χ^2/NDF : 896506.7/23

Right Out: 154.377+/-0.044 χ^2/NDF : 1214462.2/18

Left In: 219.426+/-0.038 χ^2/NDF : 850089.5/22

Left: 219.120+/-0.027 χ^2/NDF : 1746721.8/46

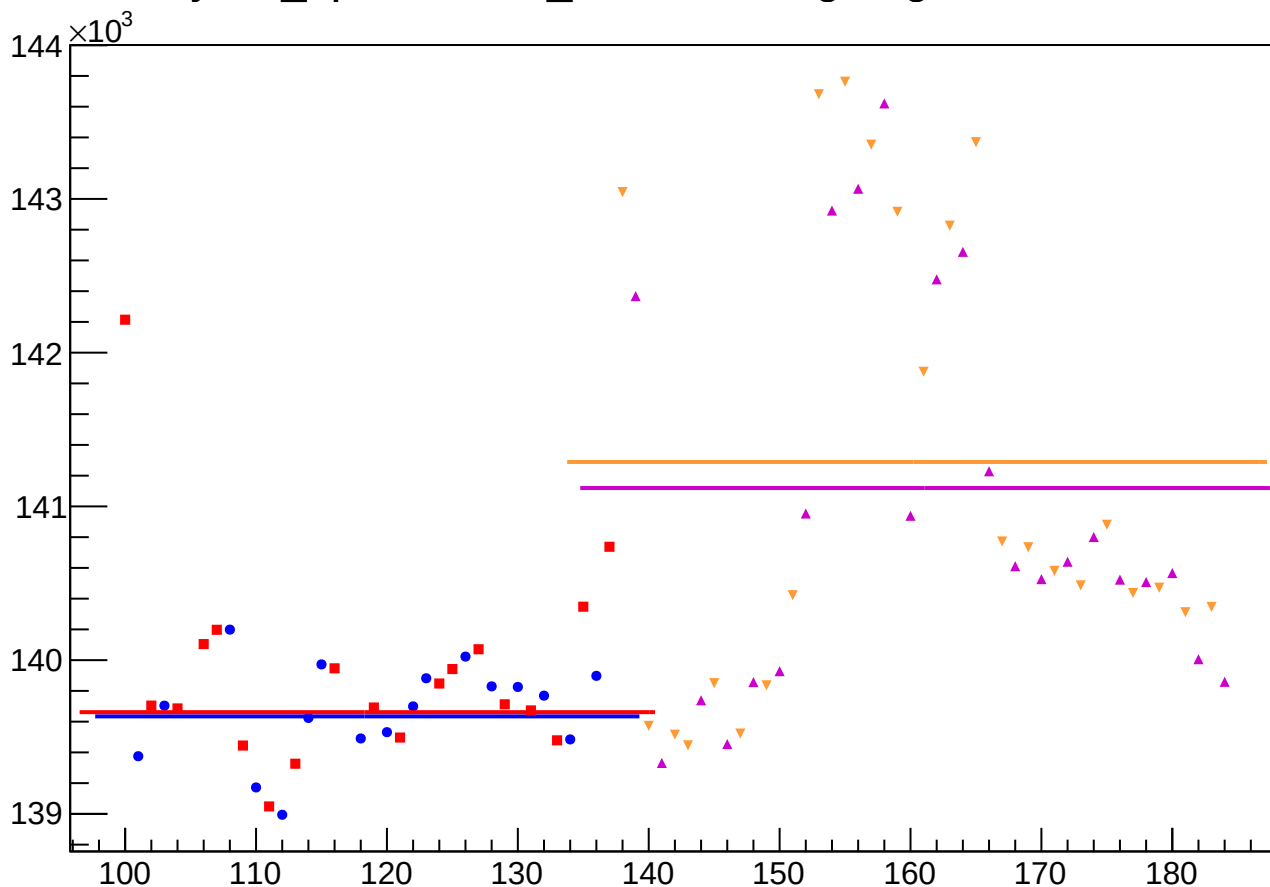
Right: 158.187+/-0.032 χ^2/NDF : 2300407.0/35

In: 197.091+/-0.030 χ^2/NDF : 2794732.5/39

Out: 191.812+/-0.028 χ^2/NDF : 3370524.3/42

All: 194.332+/-0.020 χ^2/NDF : 6181819.7/82

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.248 $\pm$ 0.068 χ^2 /NDF: 24816599.6/16

Left Out: 141289.032 $\pm$ 0.054 χ^2 /NDF: 785489077.7/23

Right Out: 139661.708 $\pm$ 0.063 χ^2 /NDF: 38354381.9/18

Left In: 141119.484 $\pm$ 0.055 χ^2 /NDF: 565312728.1/22

Left: 141205.538 $\pm$ 0.039 χ^2 /NDF: 1355639964.4/4

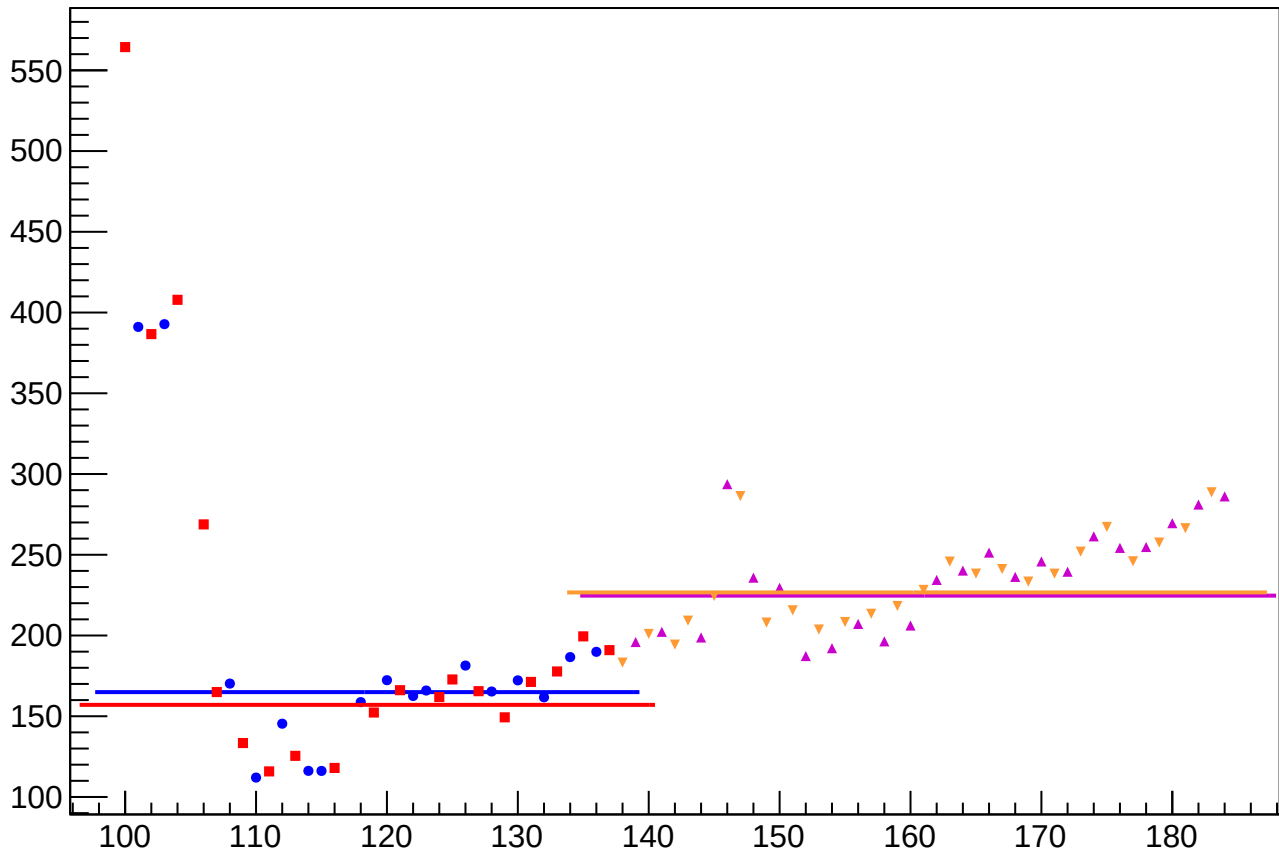
Right: 139648.993 $\pm$ 0.046 χ^2 /NDF: 63258749.7/35

In: 140532.385 $\pm$ 0.043 χ^2 /NDF: 879280506.9/39

Out: 140599.396 $\pm$ 0.041 χ^2 /NDF: 1207395813.6/4

All: 140567.205 $\pm$ 0.030 χ^2 /NDF: 20879558

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.938 $\pm$ 0.048 χ^2 /NDF: 1064403.1/16

Left Out: 226.672 $\pm$ 0.038 χ^2 /NDF: 465151.1/23

Right Out: 157.047 $\pm$ 0.045 χ^2 /NDF: 1242666.6/18

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.694 $\pm$ 0.027 χ^2 /NDF: 1044843.6/46

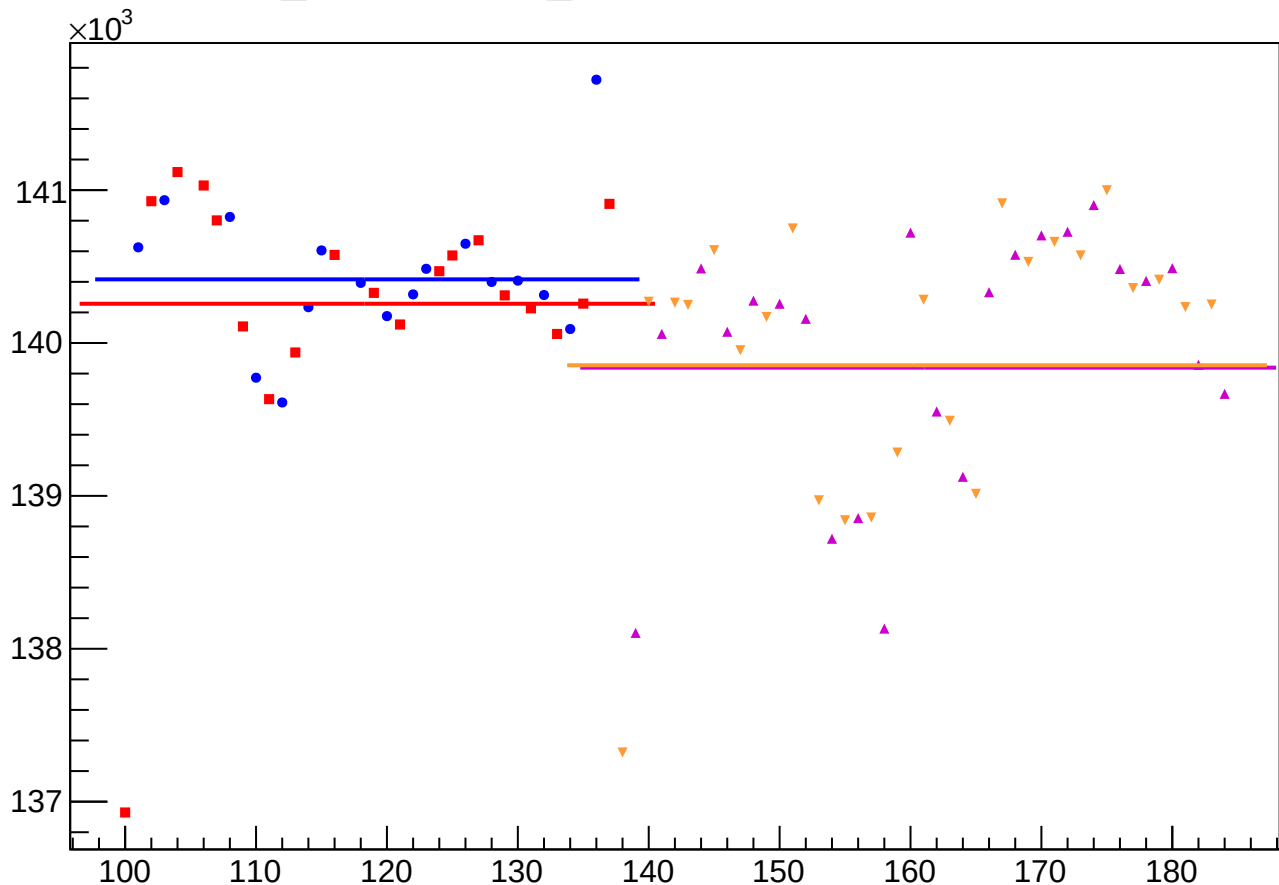
Right: 160.701 $\pm$ 0.033 χ^2 /NDF: 2321561.9/35

In: 201.068 $\pm$ 0.030 χ^2 /NDF: 2578649.8/39

Out: 197.166 $\pm$ 0.029 χ^2 /NDF: 3112009.6/42

All: 199.041 $\pm$ 0.021 χ^2 /NDF: 5699338.0/82

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.183 ± 0.069 $\chi^2/\text{NDF}: 69956735.1/16$

Left Out: 139854.463 ± 0.052 $\chi^2/\text{NDF}: 329484316.5/23$

Right Out: 140256.621 ± 0.063 $\chi^2/\text{NDF}: 38038769.4/18$

Left In: 139838.724 ± 0.053 $\chi^2/\text{NDF}: 279573689.3/22$

Left: 139846.786 ± 0.037 $\chi^2/\text{NDF}: 609103526.7/40$

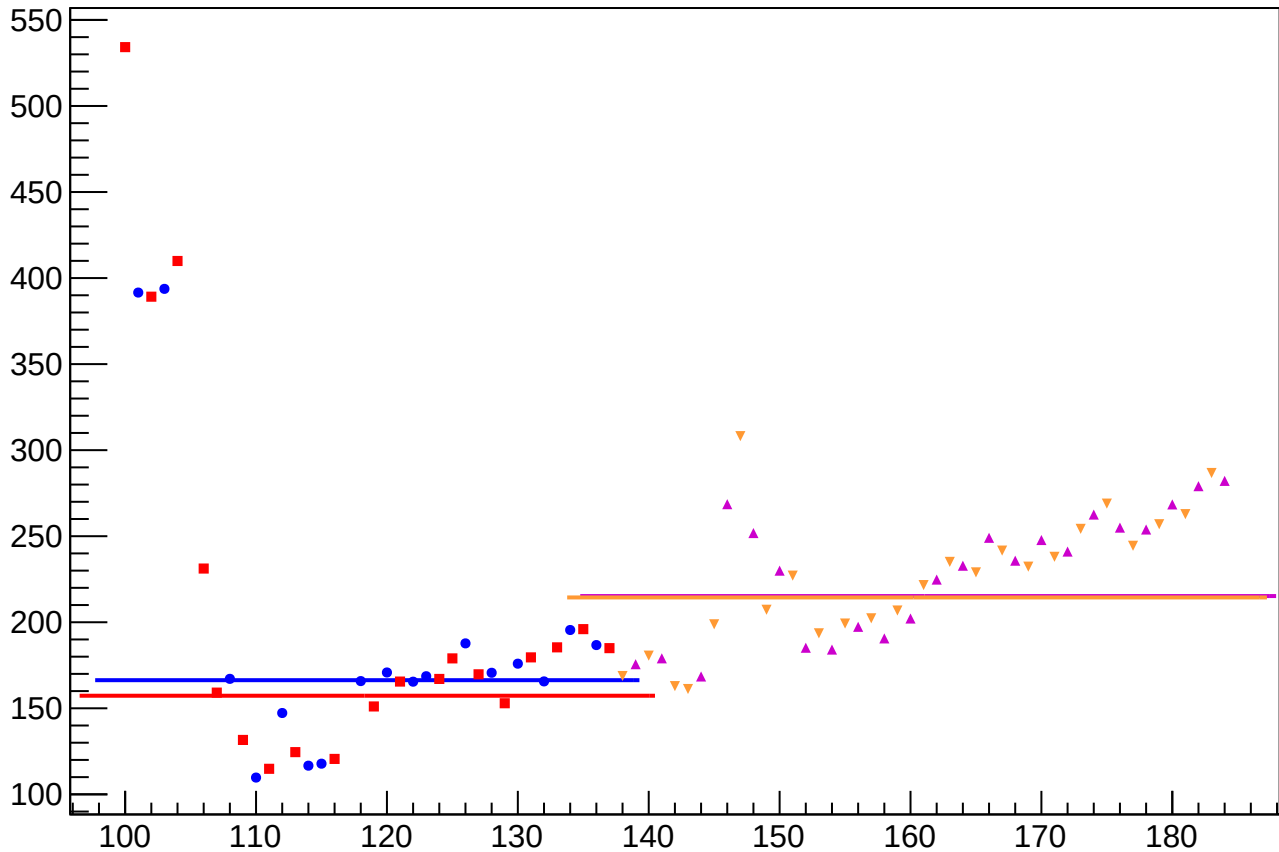
Right: 140329.953 ± 0.046 $\chi^2/\text{NDF}: 110927465.2/30$

In: 140053.921 ± 0.042 $\chi^2/\text{NDF}: 394107526.7/39$

Out: 140015.106 ± 0.040 $\chi^2/\text{NDF}: 391860330.5/42$

All: 140033.616 ± 0.029 $\chi^2/\text{NDF}: 786418526.7/84$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.338 $\pm$ 0.048 χ^2/NDF : 1081005.6/16

Left Out: 214.412 $\pm$ 0.036 χ^2/NDF : 945717.2/23

Right Out: 157.302 $\pm$ 0.045 χ^2/NDF : 1226210.5/18

Left In: 215.222 $\pm$ 0.037 χ^2/NDF : 881945.0/22

Left: 214.807 $\pm$ 0.026 χ^2/NDF : 1827902.9/46

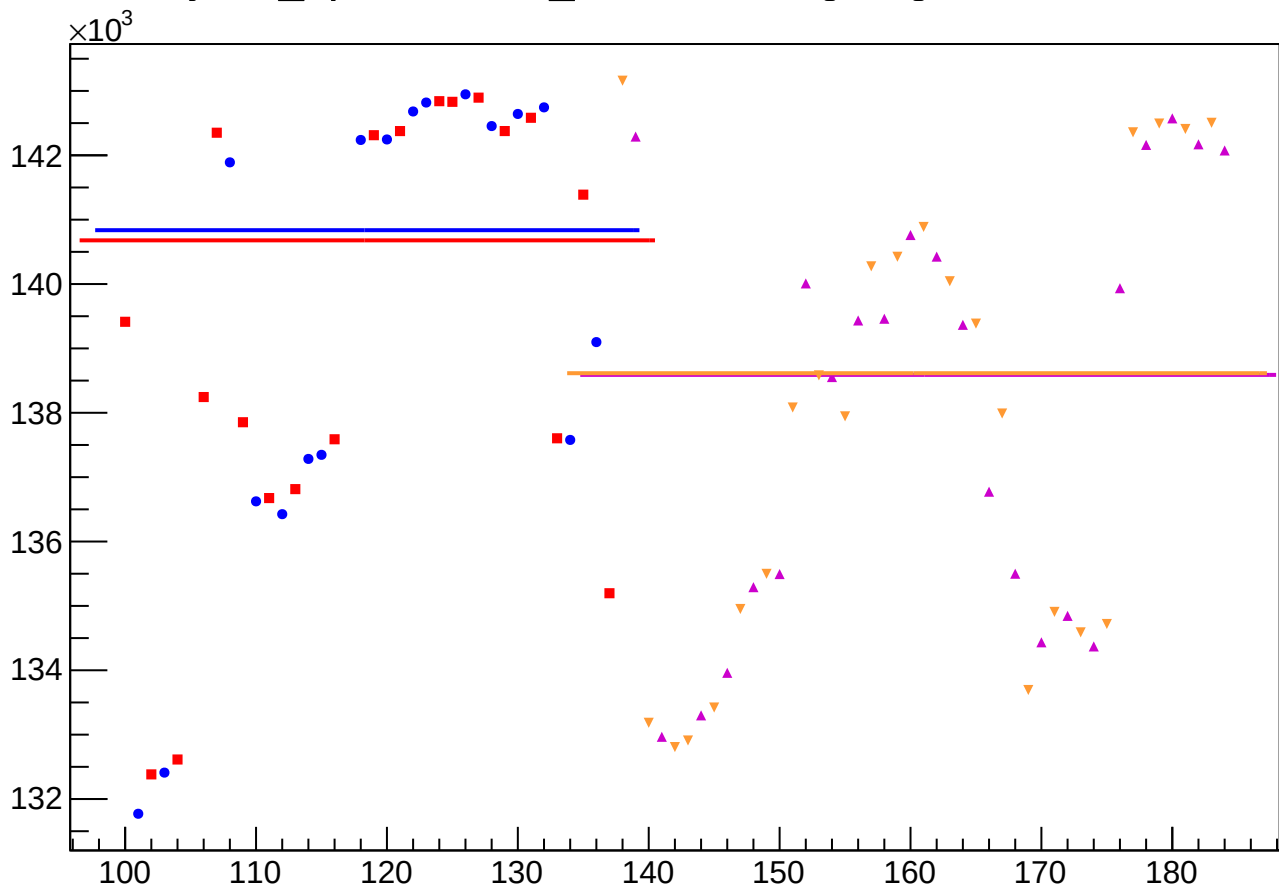
Right: 161.455 $\pm$ 0.033 χ^2/NDF : 2326018.0/35

In: 197.004 $\pm$ 0.030 χ^2/NDF : 2601853.3/39

Out: 191.600 $\pm$ 0.028 χ^2/NDF : 3153527.6/42

All: 194.177 $\pm$ 0.020 χ^2/NDF : 5772857.3/82

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140836.633 $\pm$ 0.100

χ^2 /NDF: 821253018.3/16

Left: 138602.159 $\pm$ 0.051

χ^2 /NDF: 4415626029.1/4

Left Out: 138614.875 $\pm$ 0.072

χ^2 /NDF: 2467495989.7/23

Right: 140756.822 $\pm$ 0.070

χ^2 /NDF: 1663362290.3/3

Right Out: 140678.692 $\pm$ 0.099

χ^2 /NDF: 840853098.4/18

In: 139377.637 $\pm$ 0.059

χ^2 /NDF: 3096150778.3/39

Out: 139322.977 $\pm$ 0.058

χ^2 /NDF: 3593168244.7/4

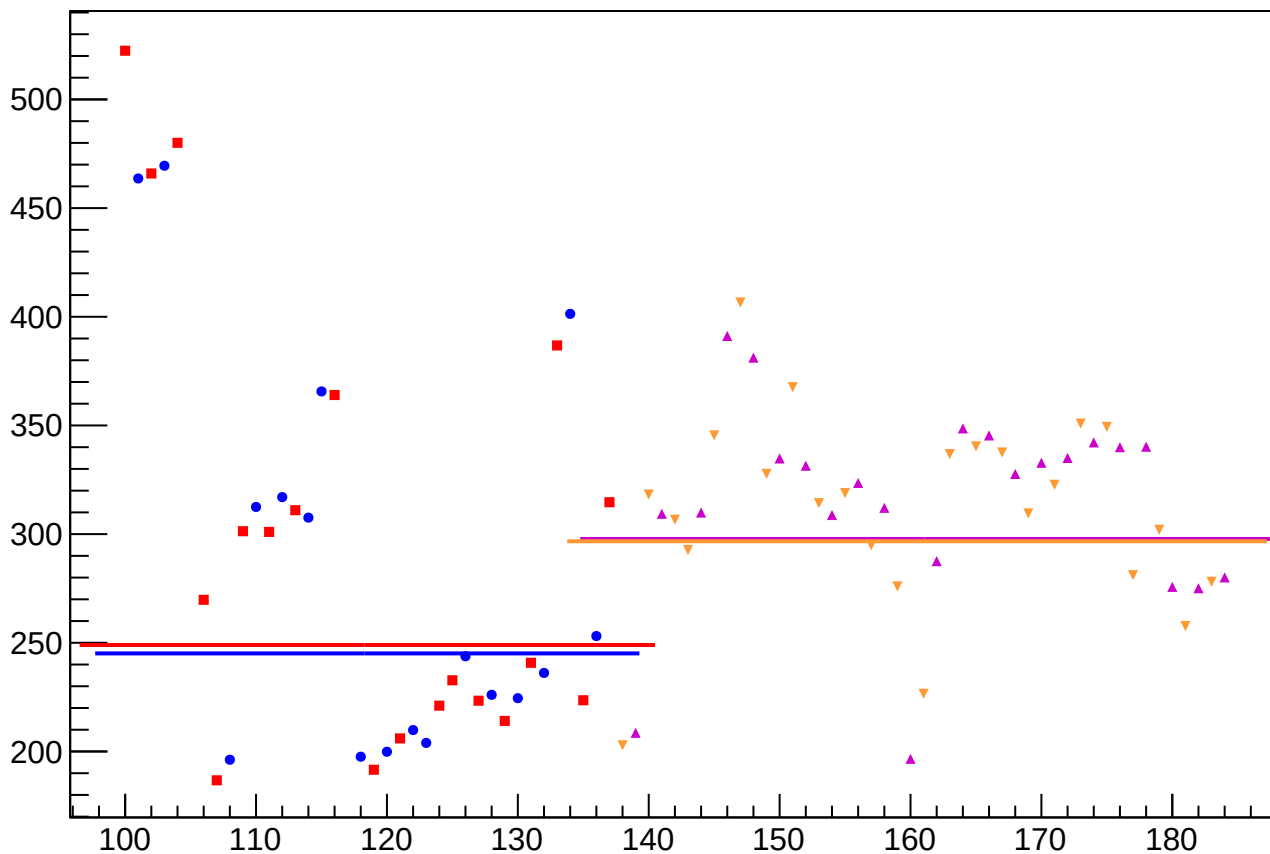
Left In: 138588.711 $\pm$ 0.074

χ^2 /NDF: 1948065195.1/22

All: 139349.707 $\pm$ 0.041

χ^2 /NDF: 668975249

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.117 $\pm$ 0.071 χ^2 /NDF: 868050.1/16

Left Out: 296.708 $\pm$ 0.051 χ^2 /NDF: 891069.5/23

Right Out: 248.984 $\pm$ 0.070 χ^2 /NDF: 1011335.0/18

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF: 1061489.5/22

Left: 297.226 $\pm$ 0.036 χ^2 /NDF: 1952774.6/46

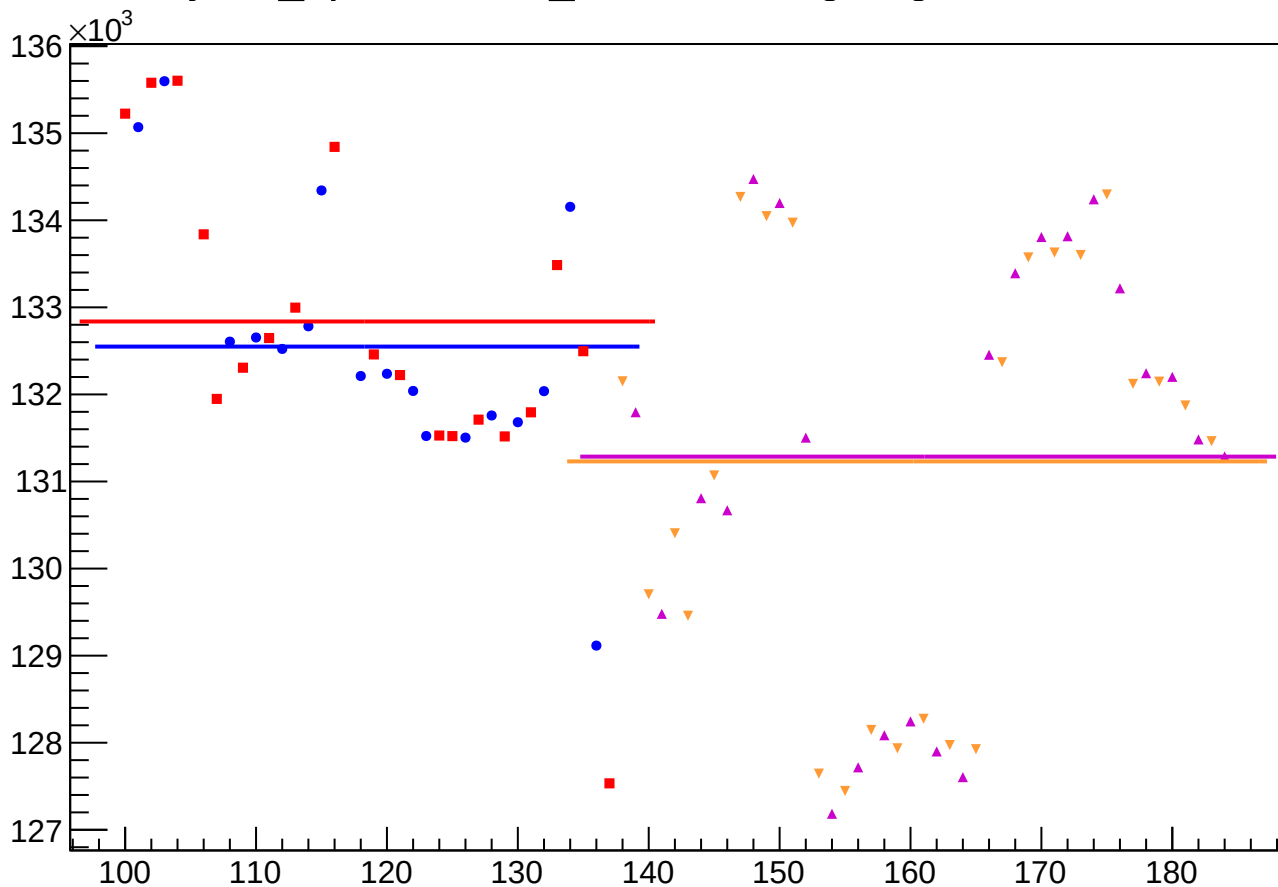
Right: 247.071 $\pm$ 0.050 χ^2 /NDF: 1880891.1/35

In: 279.294 $\pm$ 0.042 χ^2 /NDF: 2288225.9/39

Out: 280.333 $\pm$ 0.041 χ^2 /NDF: 2207005.0/42

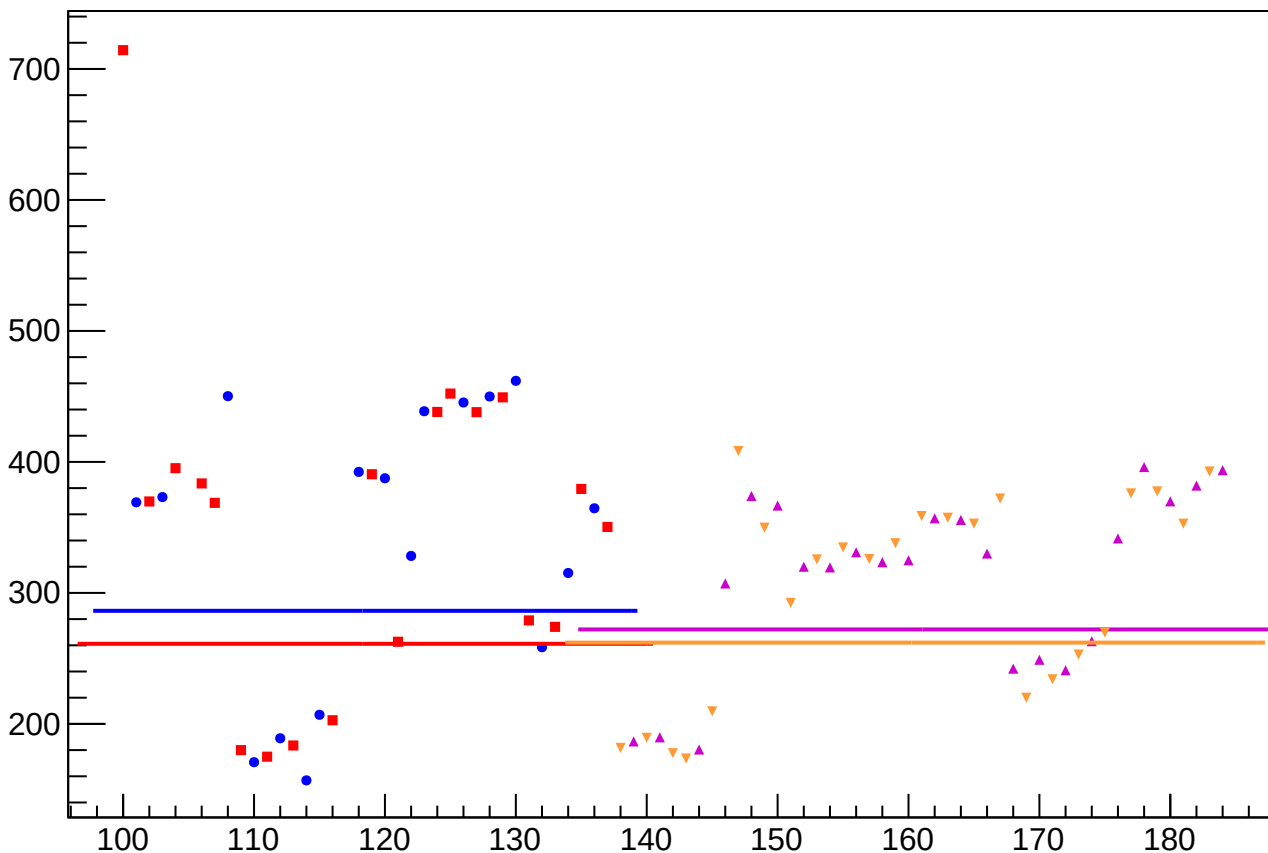
All: 279.825 $\pm$ 0.029 χ^2 /NDF: 4495544.5/82

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132549.335 $\pm$ 0.120	χ^2 /NDF: 161038742.0/16	Left: 131256.833 $\pm$ 0.047	χ^2 /NDF: 2223281286.2/4
Left Out: 131230.918 $\pm$ 0.065	χ^2 /NDF: 1166711817.6/23	Right: 132709.457 $\pm$ 0.080	χ^2 /NDF: 313937187.2/3
Right Out: 132837.715 $\pm$ 0.107	χ^2 /NDF: 149672642.4/18	In: 131596.469 $\pm$ 0.059	χ^2 /NDF: 1301391788.9/39
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 131661.935 $\pm$ 0.055	χ^2 /NDF: 1481152557.4/4
		All: 131631.411 $\pm$ 0.041	χ^2 /NDF: 278319403

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.338 $\pm$ 0.085 χ^2 /NDF: 1514049.7/16

Left Out: 262.065 $\pm$ 0.046 χ^2 /NDF: 2740614.1/23

Right Out: 261.146 $\pm$ 0.076 χ^2 /NDF: 1614381.3/18

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF: 2221925.0/22

Left: 266.826 $\pm$ 0.033 χ^2 /NDF: 4985303.0/46

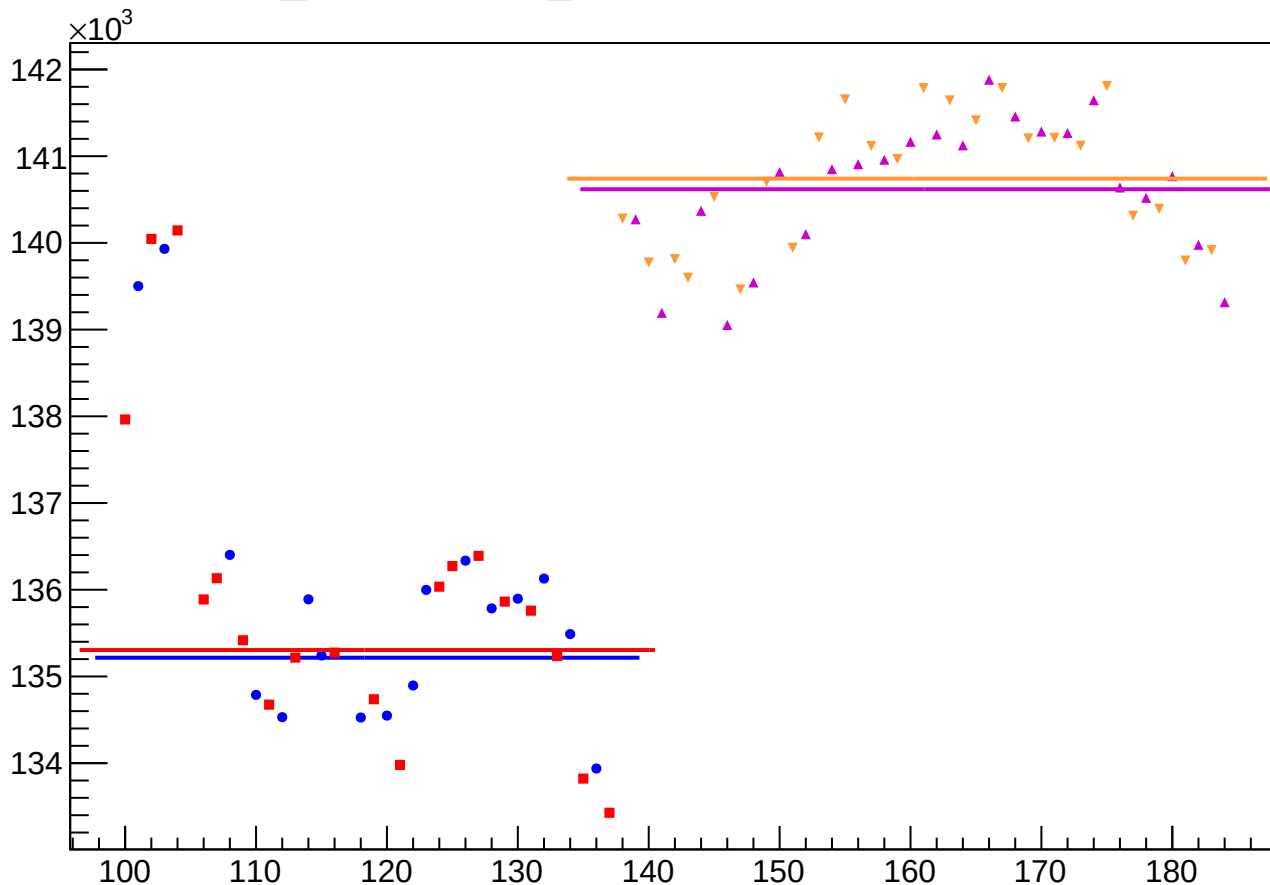
Right: 272.350 $\pm$ 0.056 χ^2 /NDF: 3177662.4/35

In: 275.613 $\pm$ 0.042 χ^2 /NDF: 3757286.3/39

Out: 261.819 $\pm$ 0.039 χ^2 /NDF: 4355103.2/42

All: 268.250 $\pm$ 0.029 χ^2 /NDF: 8170080.6/82

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.054 $\pm$ 0.054

χ^2 /NDF: 371419425.6/16

Left Out: 140741.060 $\pm$ 0.049

χ^2 /NDF: 236509027.8/23

Right Out: 135304.602 $\pm$ 0.051

χ^2 /NDF: 357443836.5/18

Left In: 140619.038 $\pm$ 0.051

χ^2 /NDF: 200370178.0/22

Left: 140682.890 $\pm$ 0.035

χ^2 /NDF: 439864712.6/46

Right: 135263.073 $\pm$ 0.037

χ^2 /NDF: 730268475.9/3

In: 138088.716 $\pm$ 0.037

χ^2 /NDF: 5810383221.8/39

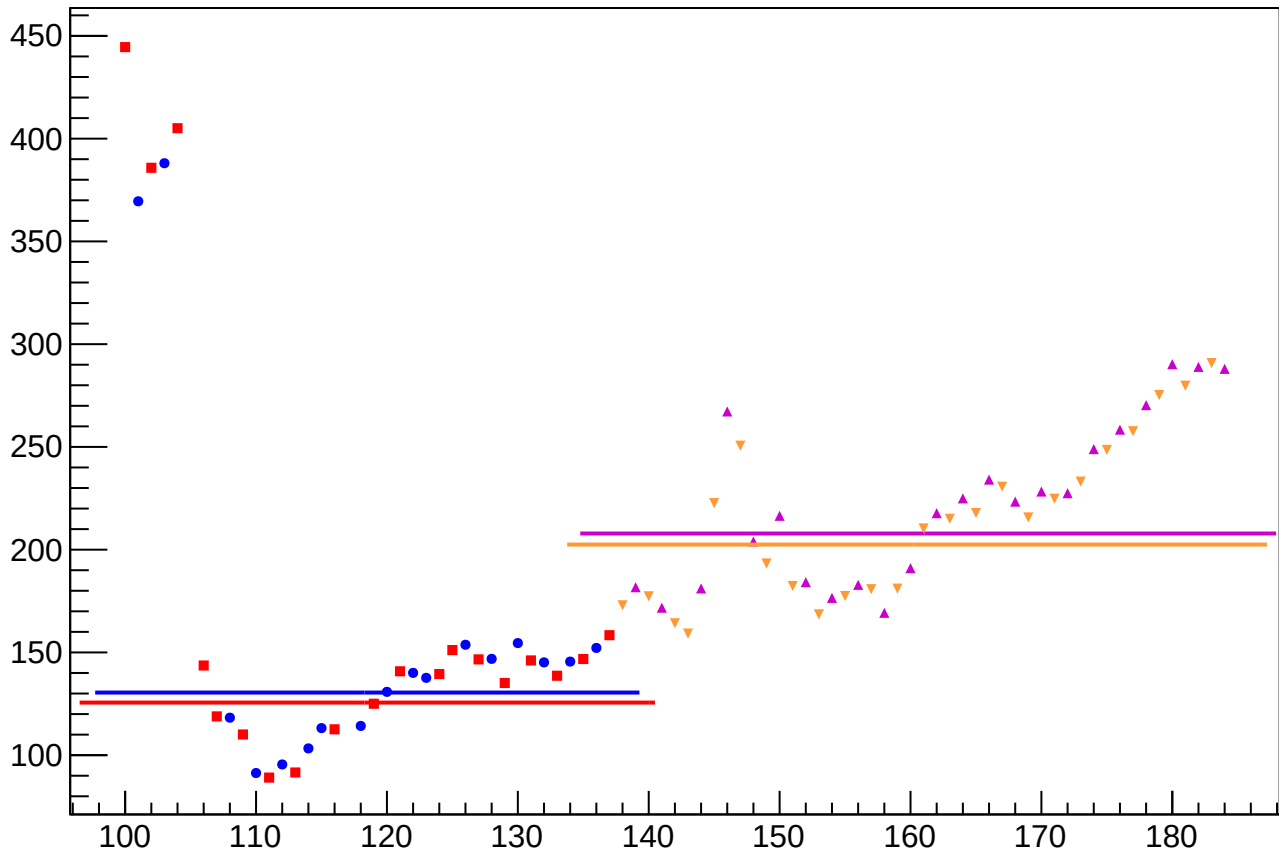
Out: 138153.159 $\pm$ 0.035

χ^2 /NDF: 6511547247.1/4

All: 138122.672 $\pm$ 0.026

χ^2 /NDF: 123235075

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.478 $\pm$ 0.038 χ^2 /NDF: 1372969.9/16

Left Out: 202.487 $\pm$ 0.034 χ^2 /NDF:1007889.3/23

Right Out: 125.594 $\pm$ 0.036 χ^2 /NDF: 1434855.8/18

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.054 $\pm$ 0.025 χ^2 /NDF: 1968719.4/46

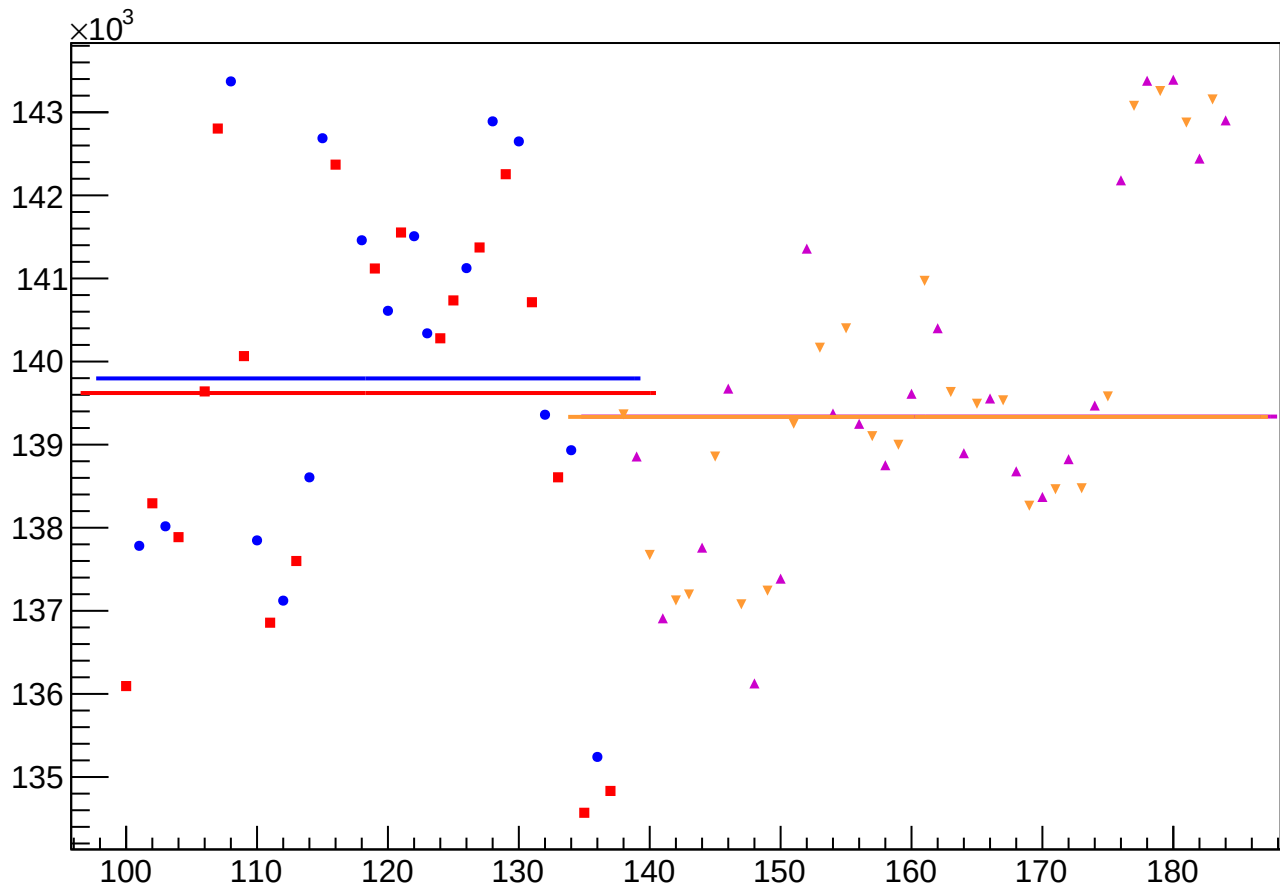
Right: 127.885 $\pm$ 0.026 χ^2 /NDF: 2816373.3/35

In: 171.627 $\pm$ 0.026 χ^2 /NDF:4471954.2/39

Out: 165.884 $\pm$ 0.025 χ^2 /NDF:4810354.4/42

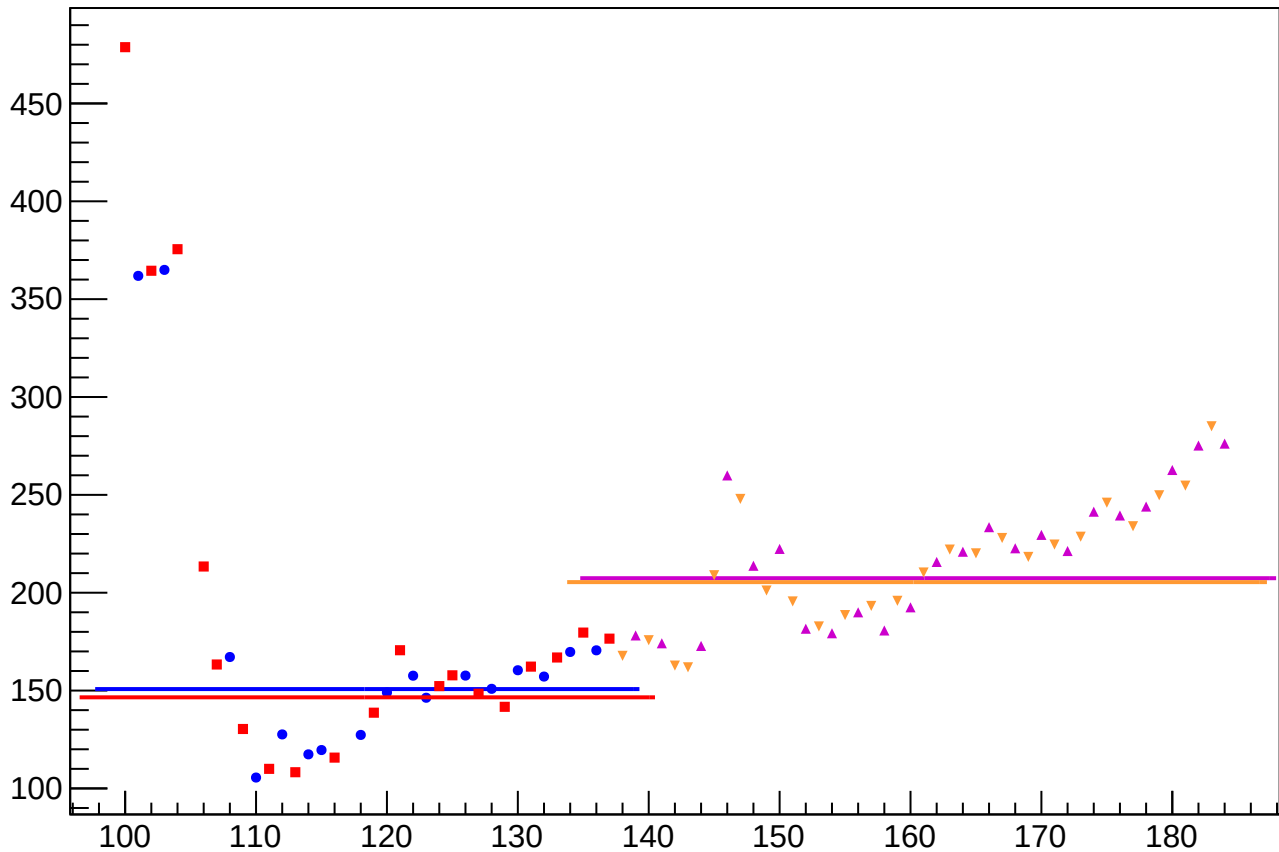
All: 168.601 $\pm$ 0.018 χ^2 /NDF: 9307357.1/82

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139796.979 $\pm$ 0.062	χ^2 /NDF: 1668151198.8/16	Left: 139335.931 $\pm$ 0.035	χ^2 /NDF: 2502239413.1/4
Left Out: 139334.101 $\pm$ 0.049	χ^2 /NDF: 1209232621.4/23	Right: 139704.736 $\pm$ 0.043	χ^2 /NDF: 3176880475.6/4
Right Out: 139621.197 $\pm$ 0.059	χ^2 /NDF: 1504518858.4/18	In: 139522.252 $\pm$ 0.039	χ^2 /NDF: 2993906683.4/39
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139452.107 $\pm$ 0.038	χ^2 /NDF: 2727670251.9/4
		All: 139485.849 $\pm$ 0.027	χ^2 /NDF: 572322798.4/23

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.766 $\pm$ 0.044 χ^2 /NDF: 1050110.5/16

Left Out: 205.417 $\pm$ 0.035 χ^2 /NDF: 702539.9/23

Right Out: 146.546 $\pm$ 0.042 χ^2 /NDF: 1200776.5/18

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.387 $\pm$ 0.025 χ^2 /NDF: 1406088.0/46

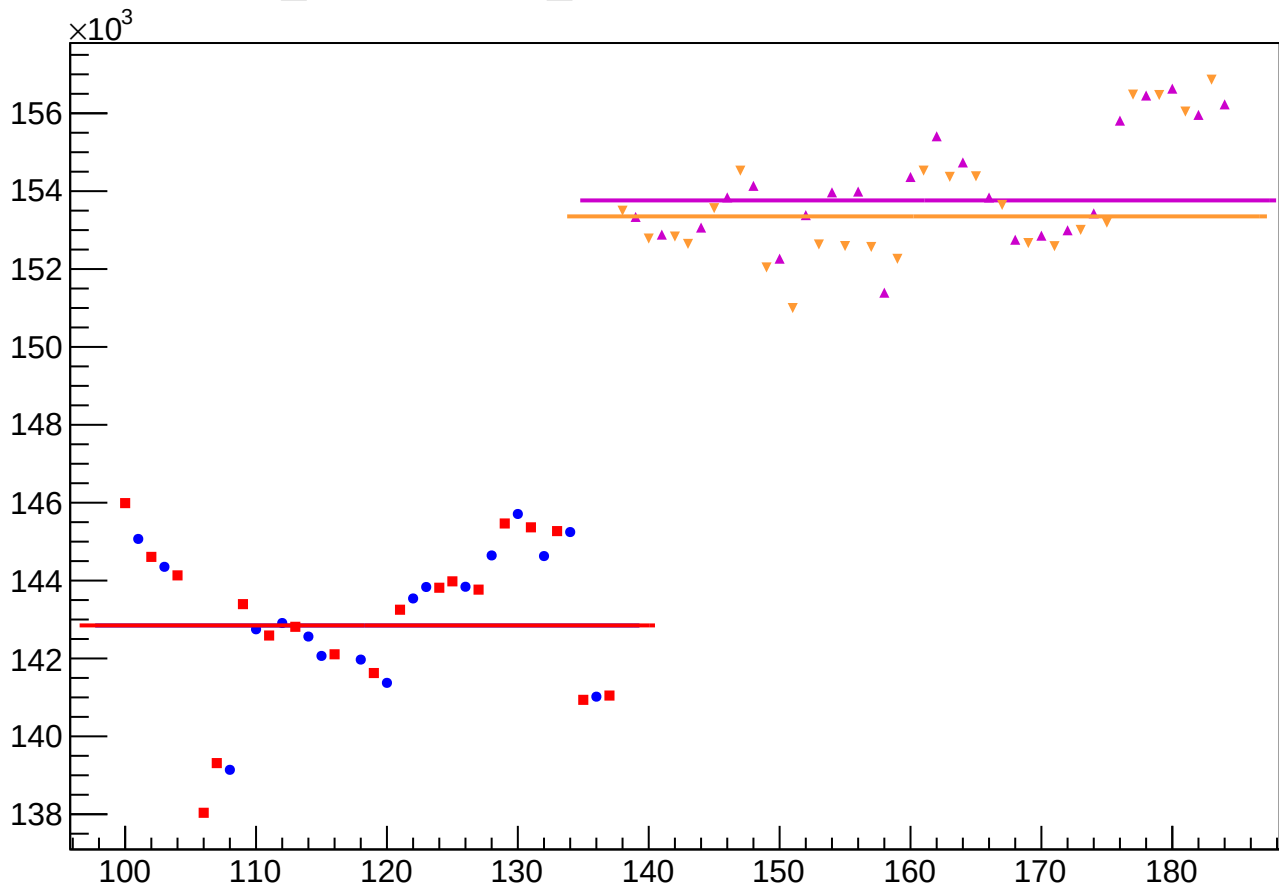
Right: 148.551 $\pm$ 0.030 χ^2 /NDF: 2255741.1/35

In: 184.665 $\pm$ 0.028 χ^2 /NDF: 2749396.1/39

Out: 181.219 $\pm$ 0.027 χ^2 /NDF: 3073851.0/42

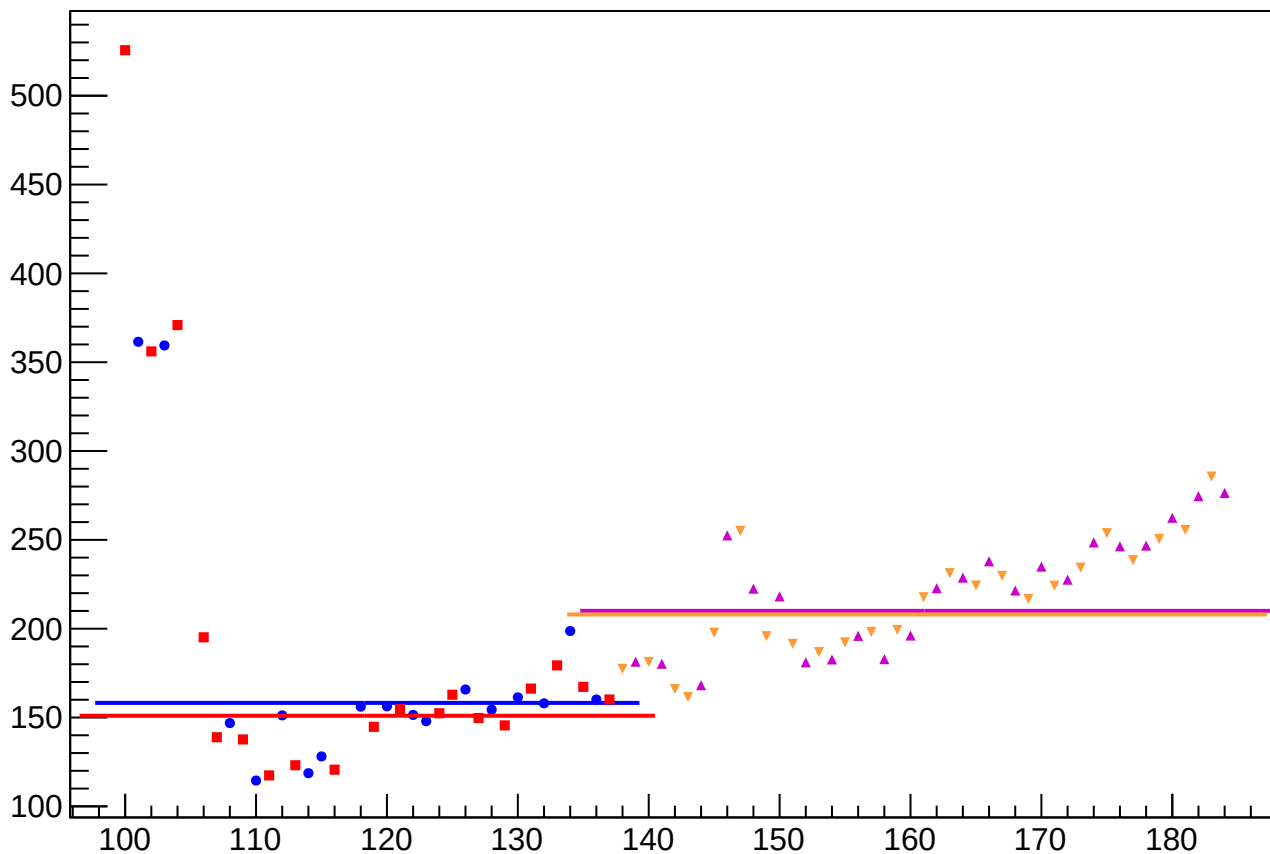
All: 182.877 $\pm$ 0.019 χ^2 /NDF: 5831218.0/82

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Left: 153551.009 $\pm$ 0.036 χ^2/NDF : 1431076791.5/4
 Right: 142847.777 $\pm$ 0.044 χ^2/NDF : 1585493619.2/23
 In: 149540.932 $\pm$ 0.040 χ^2/NDF : 18781016731.6/3
 Out: 149092.341 $\pm$ 0.038 χ^2/NDF : 19581437527.7
 All: 149306.304 $\pm$ 0.028 χ^2/NDF : 384272980

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.235 $\pm$ 0.046 χ^2 /NDF: 883619.5/16

Left Out: 208.005 $\pm$ 0.035 χ^2 /NDF: 689472.0/23

Right Out: 150.999 $\pm$ 0.043 χ^2 /NDF: 1000583.6/18

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 208.990 $\pm$ 0.025 χ^2 /NDF: 1393450.1/46

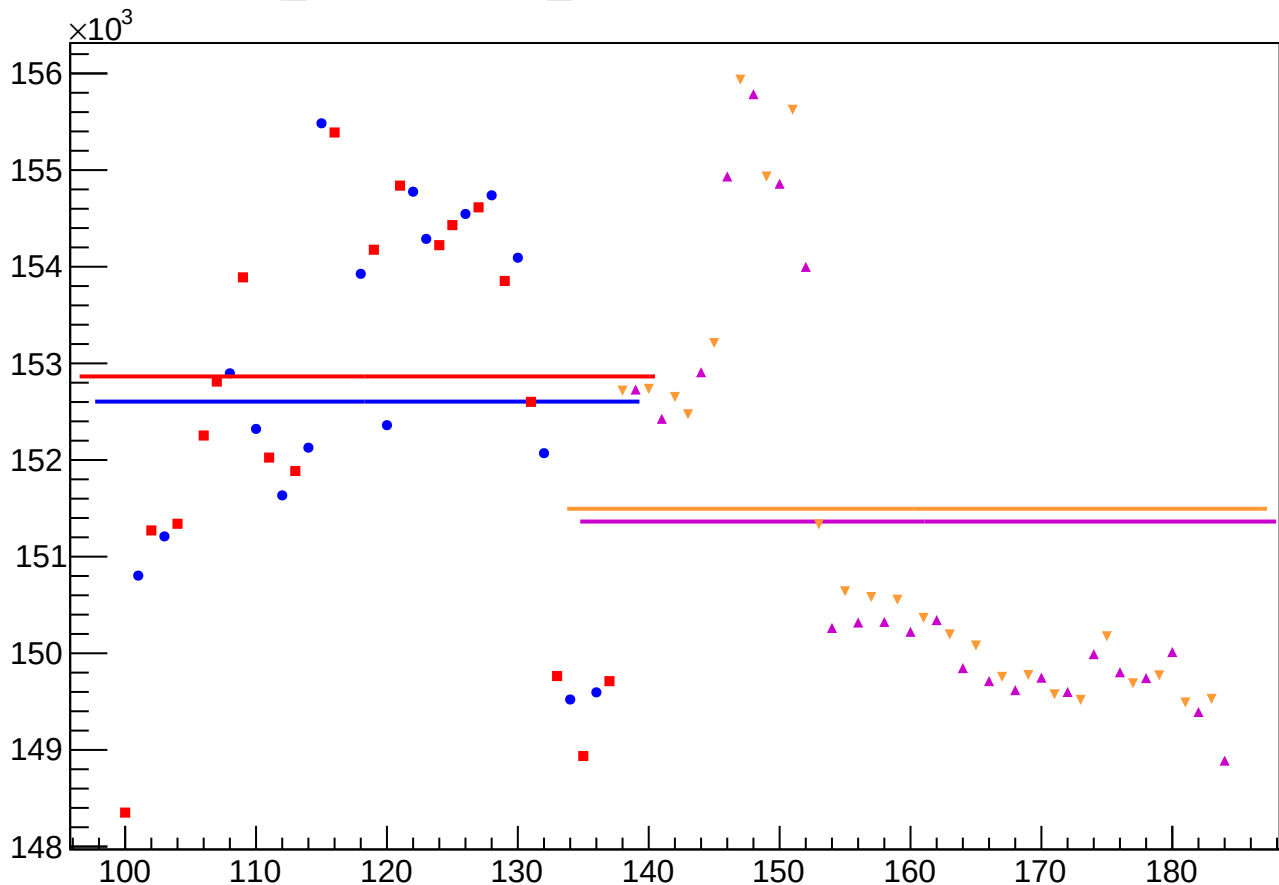
Right: 154.365 $\pm$ 0.031 χ^2 /NDF: 1897545.9/35

In: 190.004 $\pm$ 0.028 χ^2 /NDF: 2370224.6/39

Out: 184.886 $\pm$ 0.027 χ^2 /NDF: 2748611.5/42

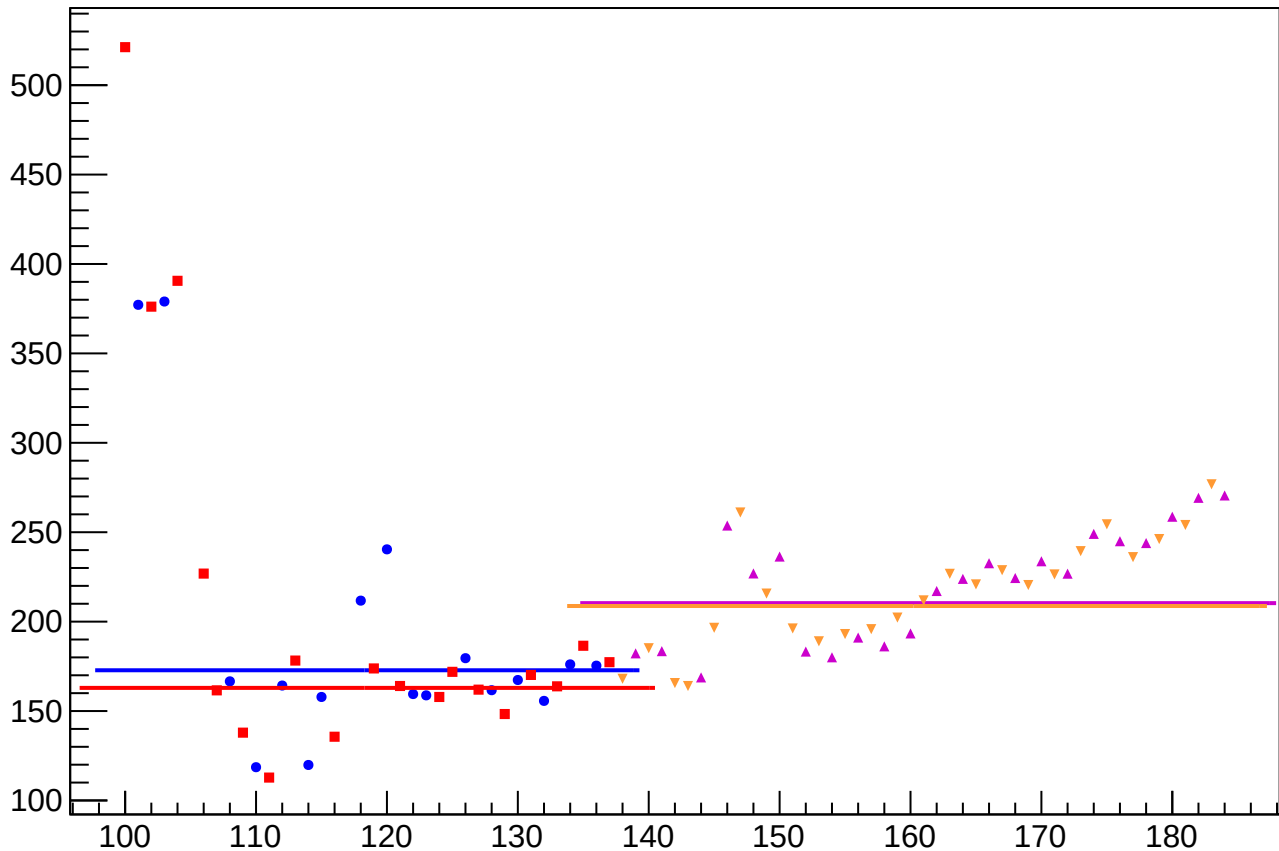
All: 187.327 $\pm$ 0.020 χ^2 /NDF: 5135714.8/82

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152604.406 $\pm$ 0.072	χ^2 /NDF: 616818062.6/16	Left: 151431.233 $\pm$ 0.036	χ^2 /NDF: 2886443241.2/4
Left Out: 151495.431 $\pm$ 0.050	χ^2 /NDF: 1461373524.5/23	Right: 152745.876 $\pm$ 0.049	χ^2 /NDF: 1342324437.7/4
Right Out: 152864.722 $\pm$ 0.066	χ^2 /NDF: 718455566.6/18	In: 151780.124 $\pm$ 0.042	χ^2 /NDF: 2234367266.4/39
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: 151991.395 $\pm$ 0.040	χ^2 /NDF: 2452366310.9/4
		All: 151890.980 $\pm$ 0.029	χ^2 /NDF: 470008216

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.803 $\pm$ 0.051 χ^2 /NDF: 945652.6/16

Left Out: 208.739 $\pm$ 0.035 χ^2 /NDF: 676856.9/23

Right Out: 162.951 $\pm$ 0.047 χ^2 /NDF: 1032146.9/18

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.518 $\pm$ 0.025 χ^2 /NDF: 1355609.6/46

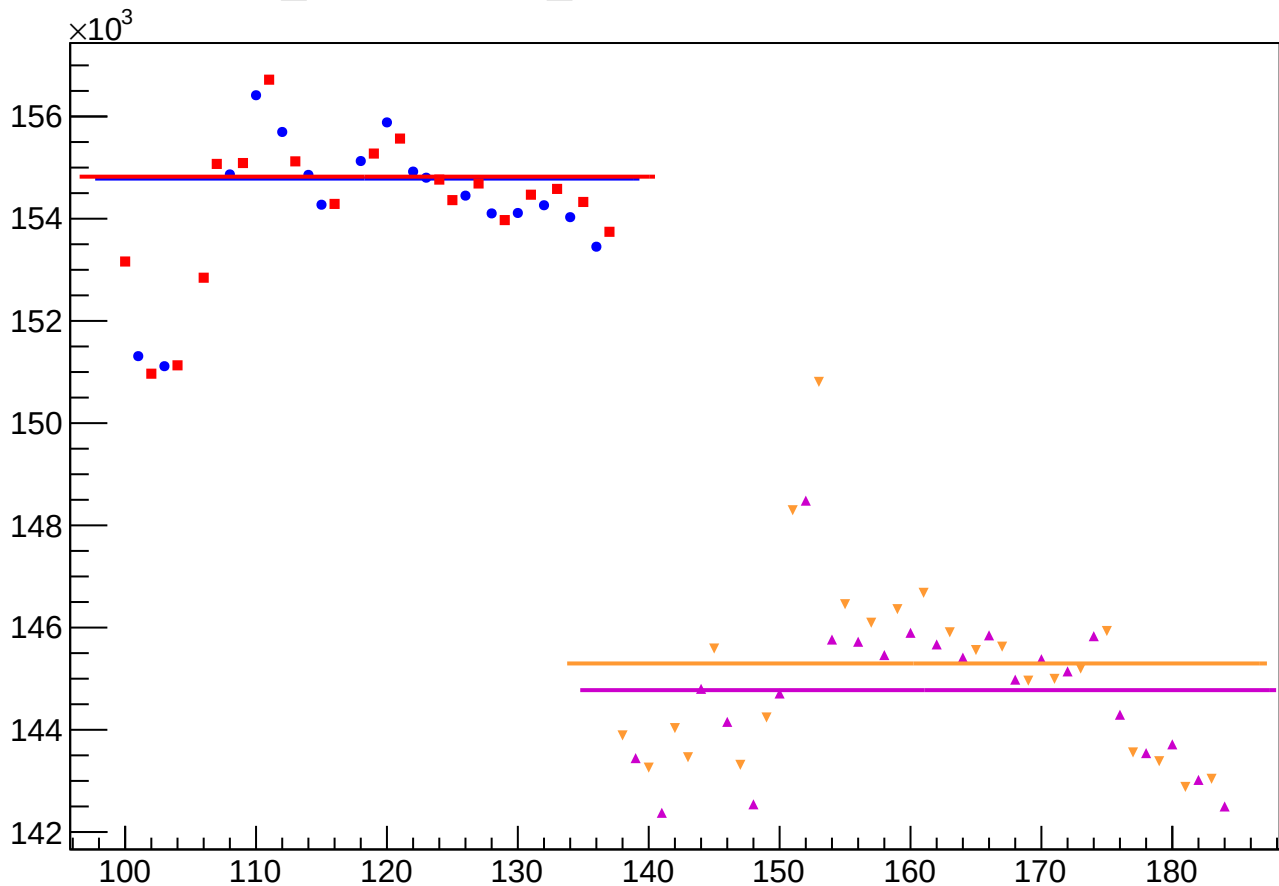
Right: 167.449 $\pm$ 0.035 χ^2 /NDF: 1997996.2/35

In: 197.734 $\pm$ 0.030 χ^2 /NDF: 1981790.5/39

Out: 192.154 $\pm$ 0.028 χ^2 /NDF: 2318476.5/42

All: 194.806 $\pm$ 0.020 χ^2 /NDF: 4318886.7/82

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154784.970 $\pm$ 0.065 χ^2 /NDF: 265445259.7/16

Left Out: 145297.919 $\pm$ 0.048 χ^2 /NDF: 1686116567.9/23

Right Out: 154822.442 $\pm$ 0.061 χ^2 /NDF: 293784821.8/18

Left In: 144776.016 $\pm$ 0.050 χ^2 /NDF: 918120275.4/22

Left: 145046.784 $\pm$ 0.034 χ^2 /NDF: 2661771242.7/4

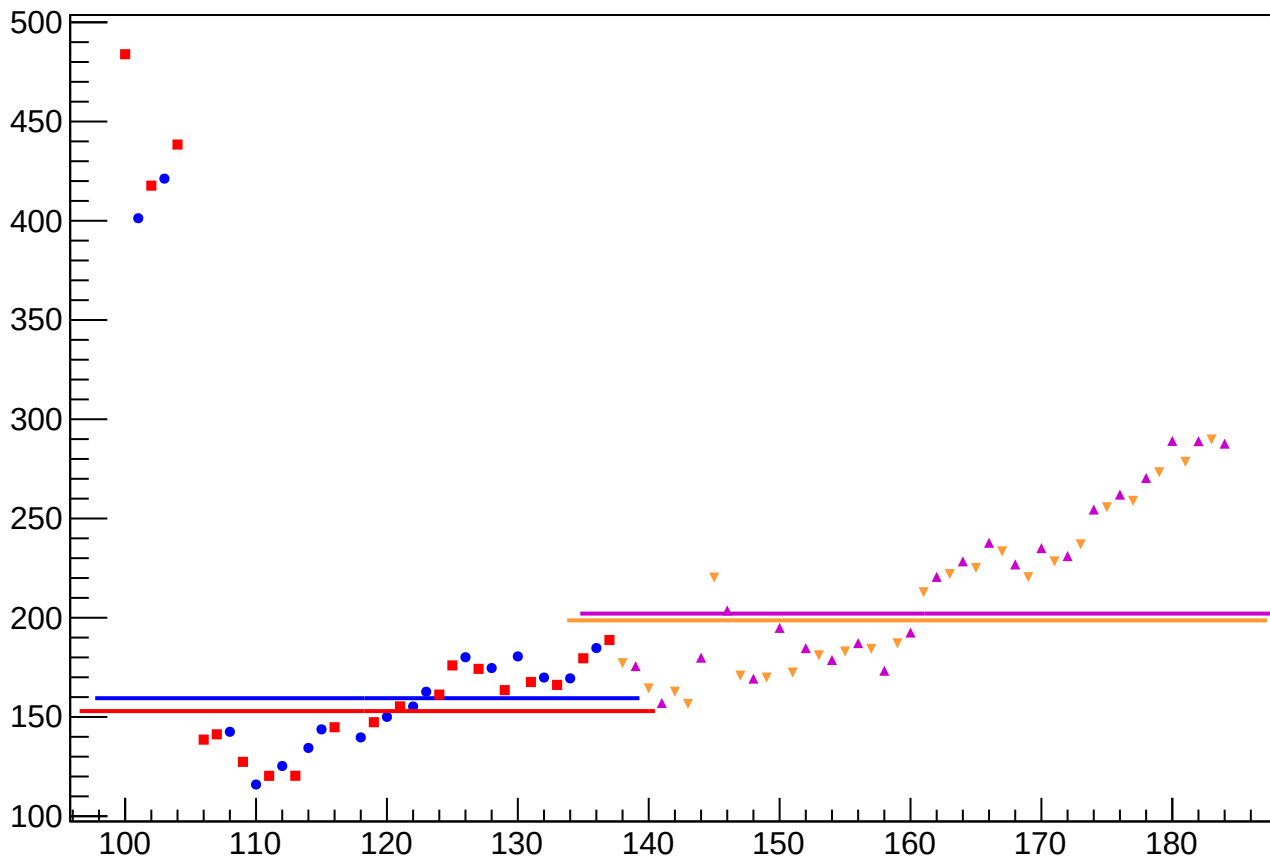
Right: 154805.060 $\pm$ 0.045 χ^2 /NDF: 559405704.7/3

In: 148421.862 $\pm$ 0.040 χ^2 /NDF: 16040471681.5/3

Out: 148922.085 $\pm$ 0.038 χ^2 /NDF: 17132330118.7

All: 148684.614 $\pm$ 0.027 χ^2 /NDF: 33256974

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.460 +/- 0.046 χ^2/NDF : 1131650.0/16

Left Out: 198.659 +/- 0.034 χ^2/NDF : 1103849.1/23

Right Out: 152.961 +/- 0.043 χ^2/NDF : 1169783.0/18

Left In: 202.090 +/- 0.035 χ^2/NDF : 1057833.2/22

Left: 200.310 +/- 0.024 χ^2/NDF : 2166655.3/46

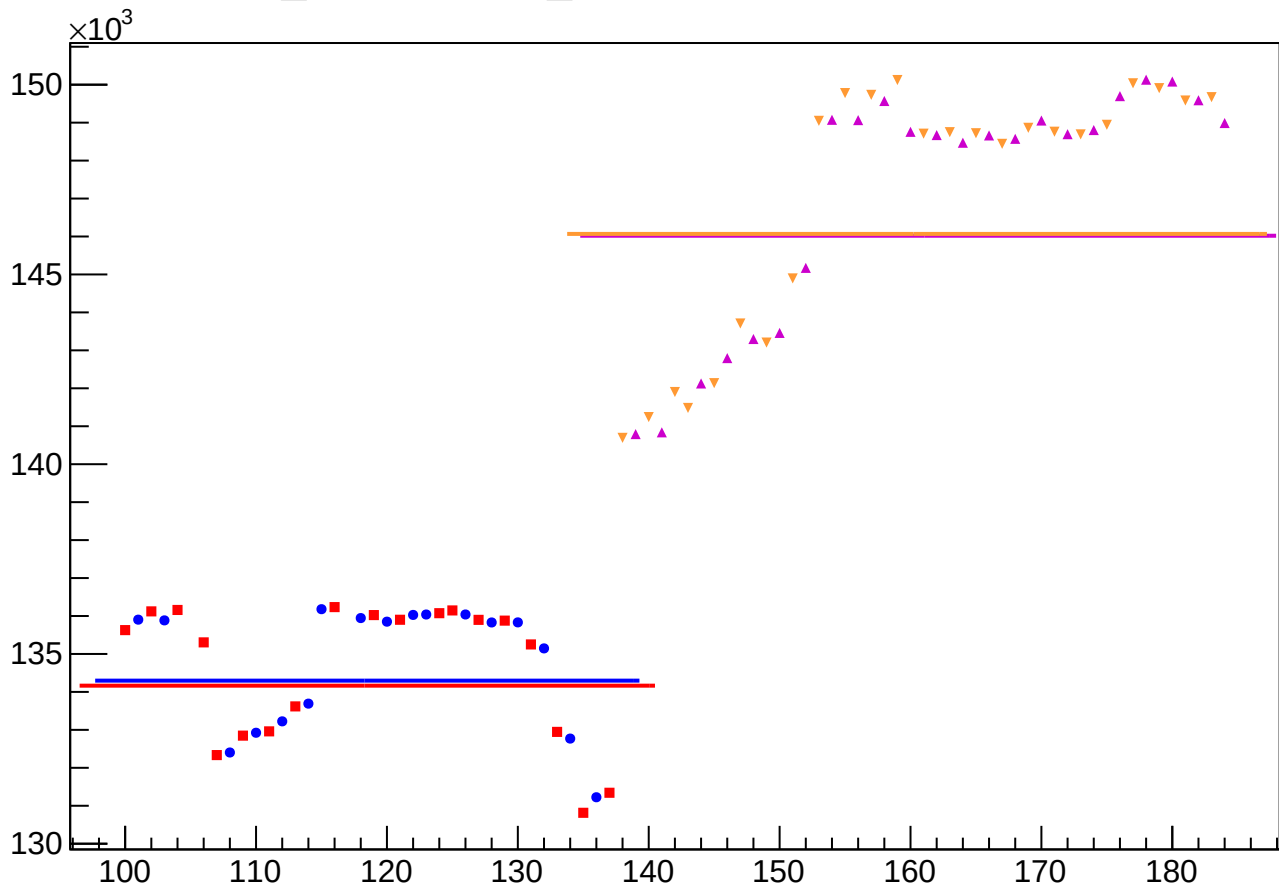
Right: 155.976 +/- 0.032 χ^2/NDF : 2311995.9/35

In: 186.562 +/- 0.028 χ^2/NDF : 2728526.1/39

Out: 181.271 +/- 0.027 χ^2/NDF : 2971252.6/42

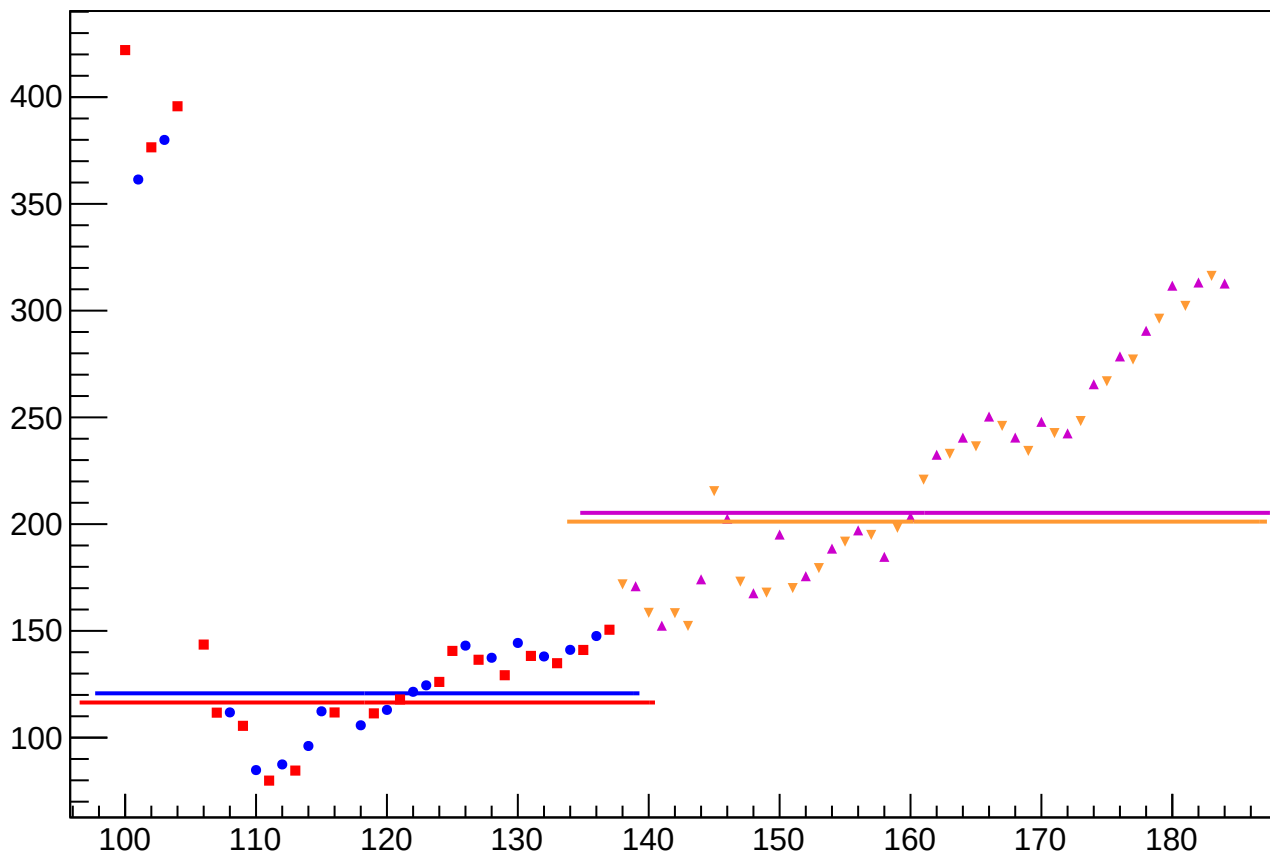
All: 183.783 +/- 0.019 χ^2/NDF : 5718612.3/82

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134297.022+/-0.050	χ^2/NDF : 1147567257.7/16	Left: 146044.940+/-0.035	χ^2/NDF : 9901103635.8/4
Left Out: 146067.924+/-0.049	χ^2/NDF : 5309212827.2/23	Right: 134226.757+/-0.035	χ^2/NDF : 2361744877.8/4
Right Out: 134164.594+/-0.047	χ^2/NDF : 1210514088.0/18	In: 140128.919+/-0.036	χ^2/NDF : 32656197979.4/3
Left In: 146020.015+/-0.051	χ^2/NDF : 4591425371.4/22	Out: 139962.974+/-0.034	χ^2/NDF : 37235736162.3/4
		All: 140041.714+/-0.025	χ^2/NDF : 699032720.0/1

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.752 $\pm$ 0.036 χ^2/NDF : 1465247.5/16

Left Out: 201.175 $\pm$ 0.034 χ^2/NDF :1521913.3/23

Right Out: 116.453 $\pm$ 0.034 χ^2/NDF : 1535612.1/18

Left In: 205.286 $\pm$ 0.036 χ^2/NDF :1425292.7/22

Left: 203.147 $\pm$ 0.025 χ^2/NDF : 2954062.0/46

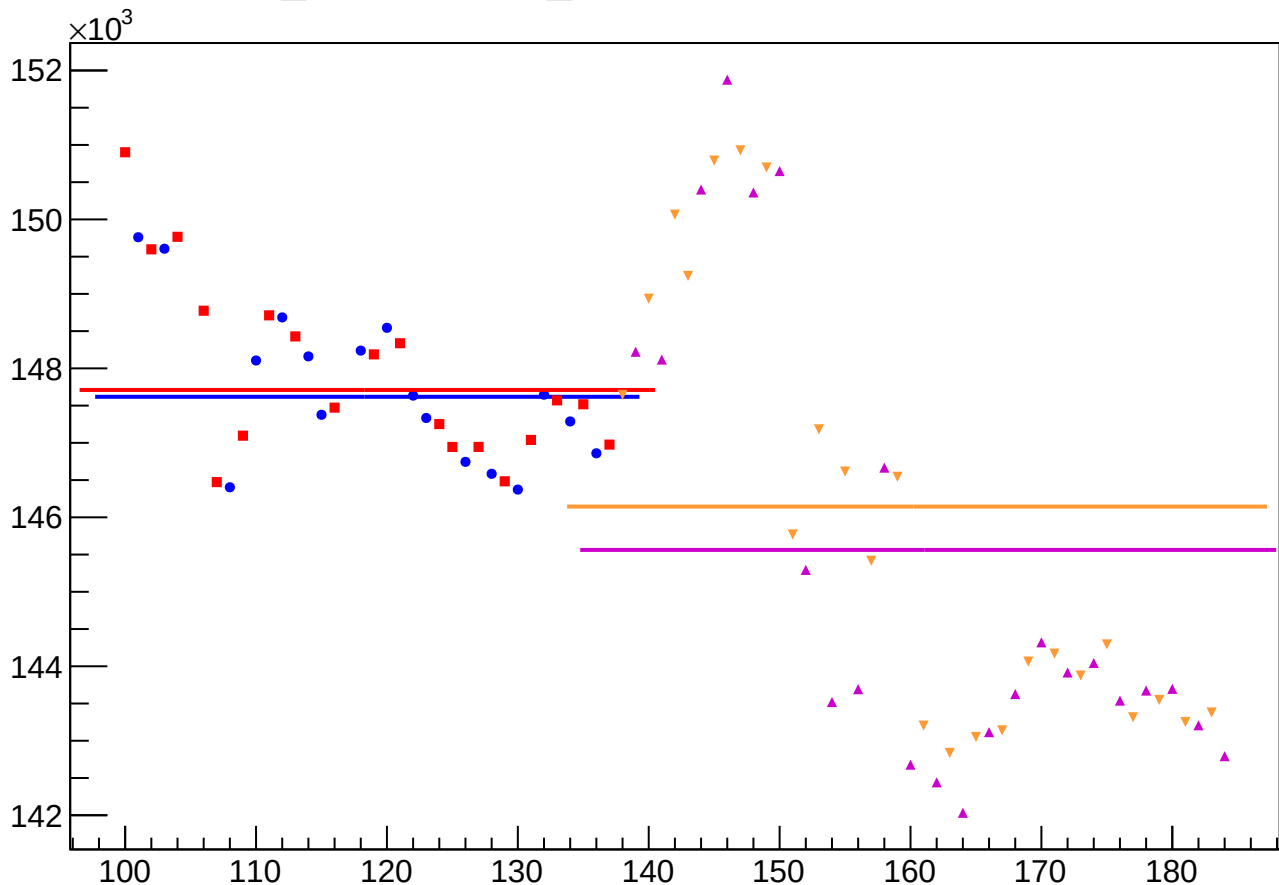
Right: 118.471 $\pm$ 0.024 χ^2/NDF : 3008583.2/35

In: 162.806 $\pm$ 0.025 χ^2/NDF :5689822.8/39

Out: 157.723 $\pm$ 0.024 χ^2/NDF :6169604.2/42

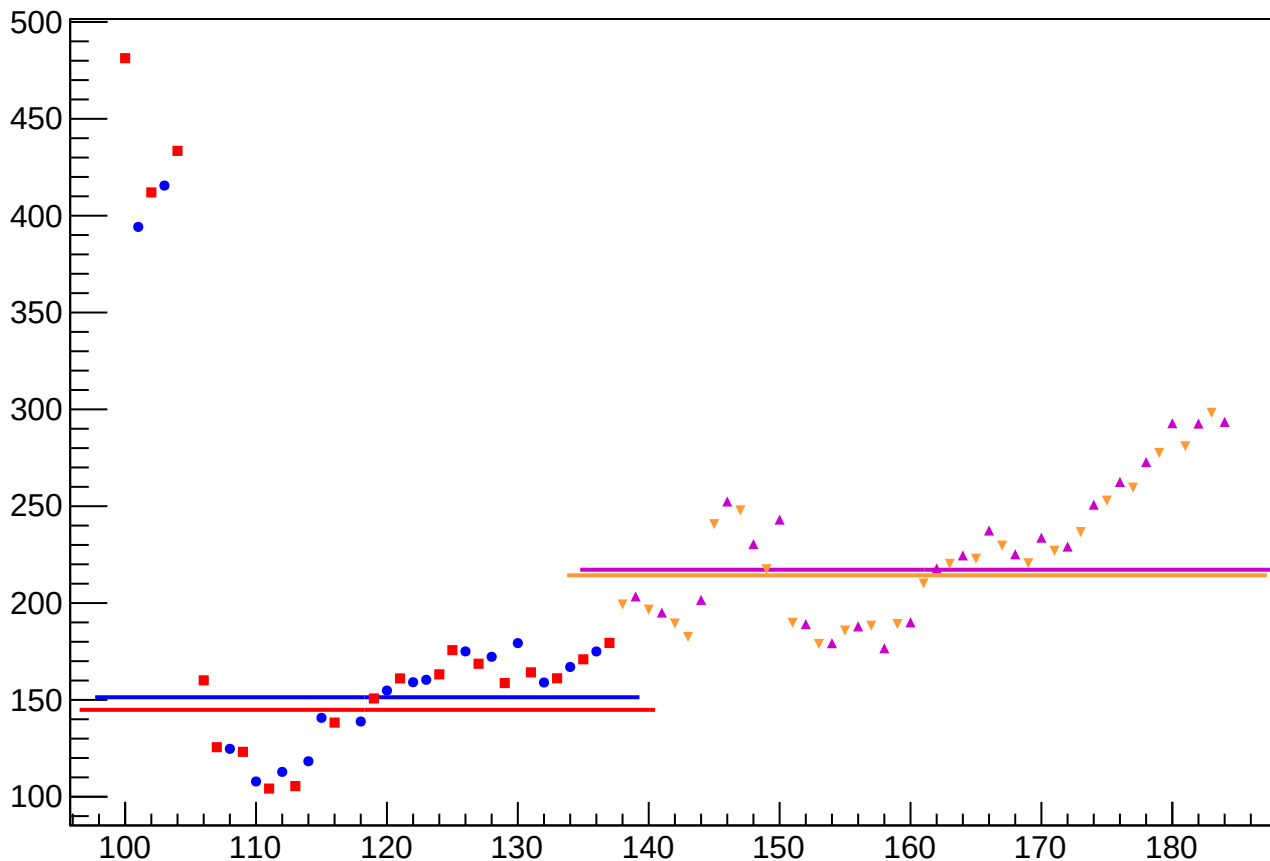
All: 160.135 $\pm$ 0.017 χ^2/NDF : 11880703.6/82

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147618.243+/-0.063	χ^2/NDF : 198581777.1/16	Left: 145863.396+/-0.037	χ^2/NDF : 5763472067.3/4
Left Out: 146144.060+/-0.051	χ^2/NDF : 2646657590.7/23	Right: 147667.515+/-0.043	χ^2/NDF : 403454683.7/3
Right Out: 147710.334+/-0.058	χ^2/NDF : 203714451.2/18	In: 146422.274+/-0.040	χ^2/NDF : 3880952284.6/39
Left In: 145562.386+/-0.053	χ^2/NDF : 3054641996.0/22	Out: 146826.148+/-0.039	χ^2/NDF : 3257228612.6/4
		All: 146634.304+/-0.028	χ^2/NDF : 719045099

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.363 $\pm$ 0.044 χ^2/NDF : 1259788.8/16

Left Out: 214.329 $\pm$ 0.036 χ^2/NDF : 694610.3/23

Right Out: 144.870 $\pm$ 0.041 χ^2/NDF : 1371292.3/18

Left In: 217.203 $\pm$ 0.038 χ^2/NDF : 764798.3/22

Left: 215.716 $\pm$ 0.026 χ^2/NDF : 1462445.7/46

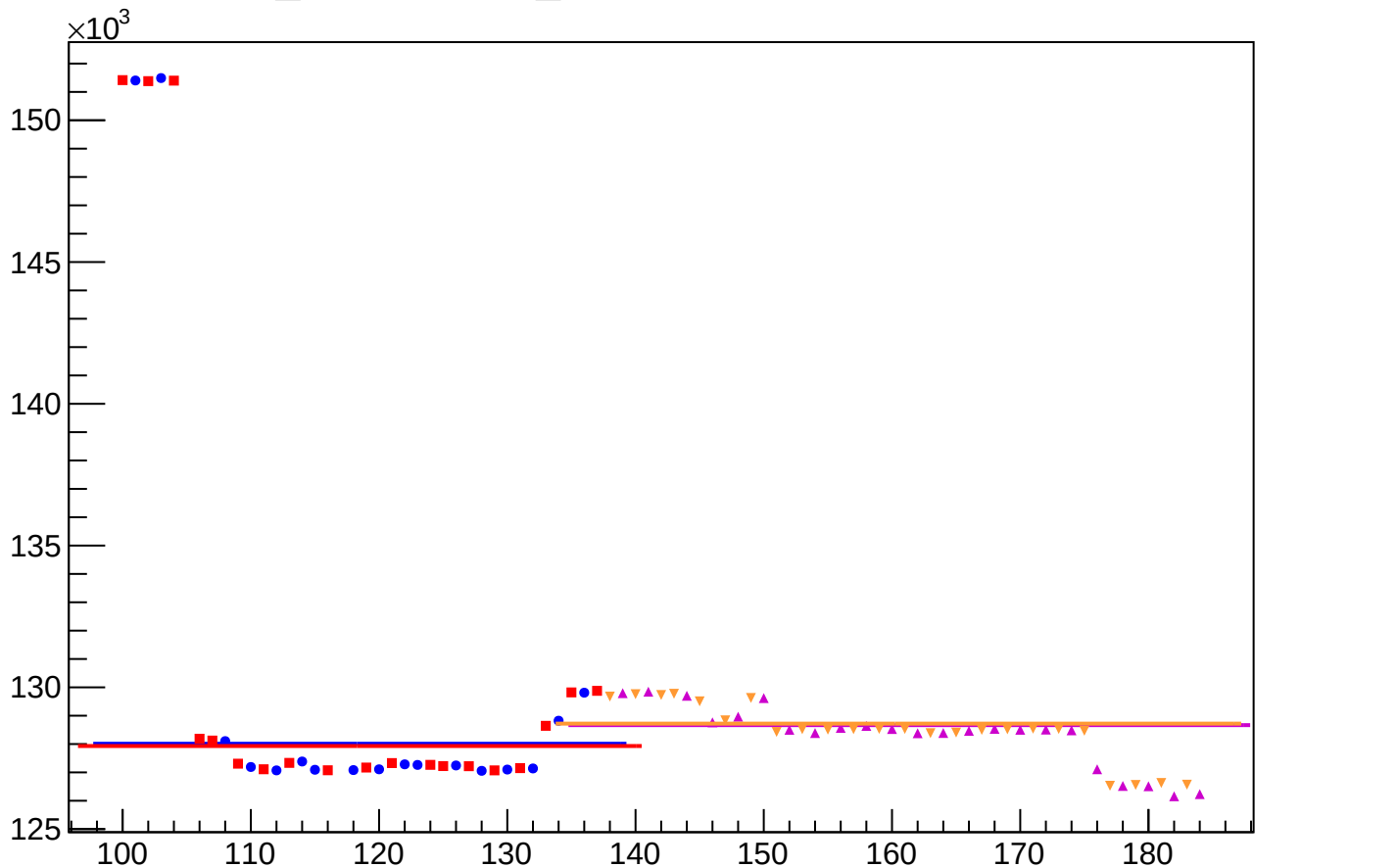
Right: 147.889 $\pm$ 0.030 χ^2/NDF : 2642598.4/35

In: 189.665 $\pm$ 0.029 χ^2/NDF : 3312261.9/39

Out: 184.080 $\pm$ 0.027 χ^2/NDF : 3666170.1/42

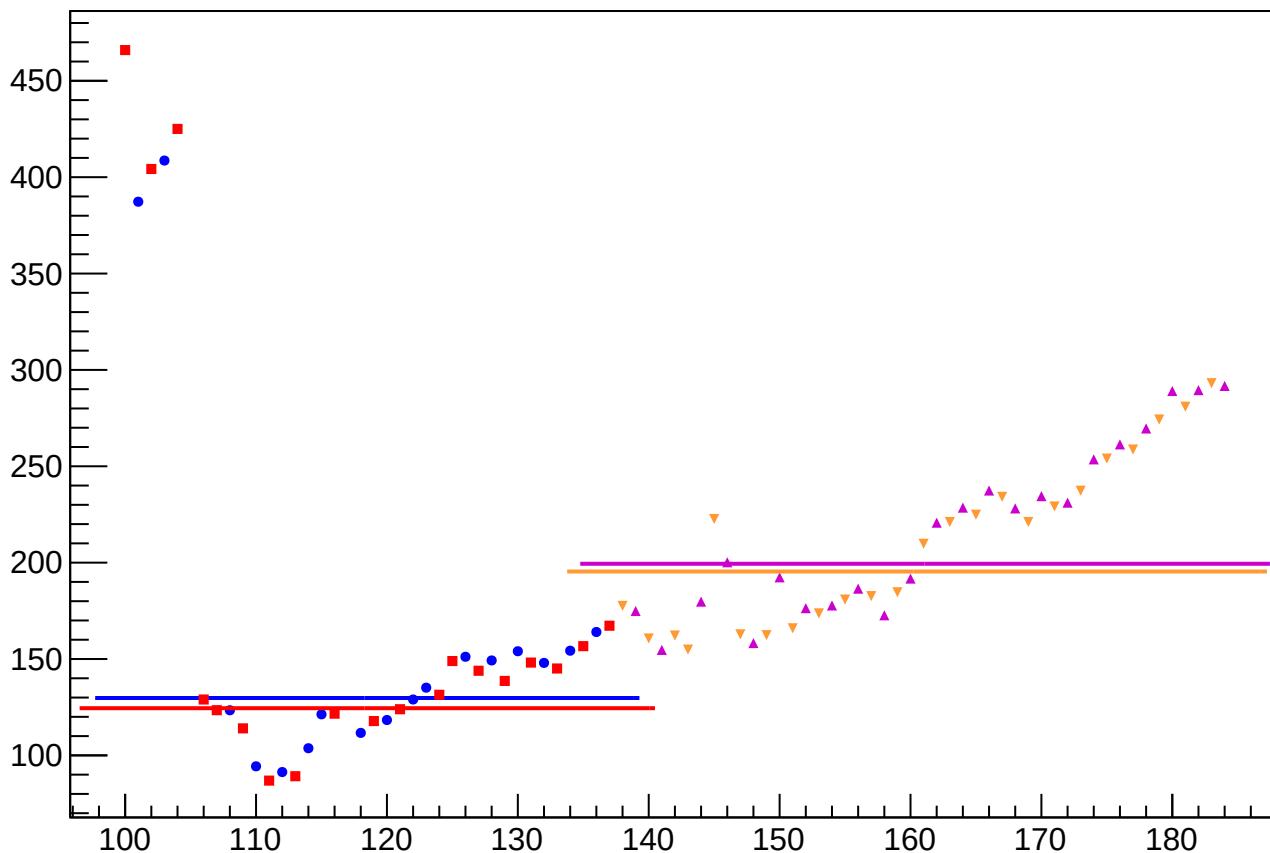
All: 186.733 $\pm$ 0.020 χ^2/NDF : 6998418.1/82

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128009.906 $\pm$ 0.054 χ^2 /NDF: 4319099803.8/16
 Left Out: 128720.075 $\pm$ 0.047 χ^2 /NDF: 331788791.1/23
 Right Out: 127930.465 $\pm$ 0.050 χ^2 /NDF: 3768075163.1/18
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128694.635 $\pm$ 0.034 χ^2 /NDF: 665458895.7/40
 Right: 127967.286 $\pm$ 0.037 χ^2 /NDF: 8088326902.9/23
 In: 128371.621 $\pm$ 0.036 χ^2 /NDF: 4733027237.6/39
 Out: 128352.588 $\pm$ 0.034 χ^2 /NDF: 4231123342.3/40
 All: 128361.574 $\pm$ 0.025 χ^2 /NDF: 896429530.0/79

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.769 $\pm$ 0.038 χ^2 /NDF: 1483741.9/16

Left Out: 195.402 $\pm$ 0.033 χ^2 /NDF:1257802.4/23

Right Out: 124.477 $\pm$ 0.036 χ^2 /NDF: 1526276.6/18

Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

Left: 197.325 $\pm$ 0.024 χ^2 /NDF: 2430479.9/46

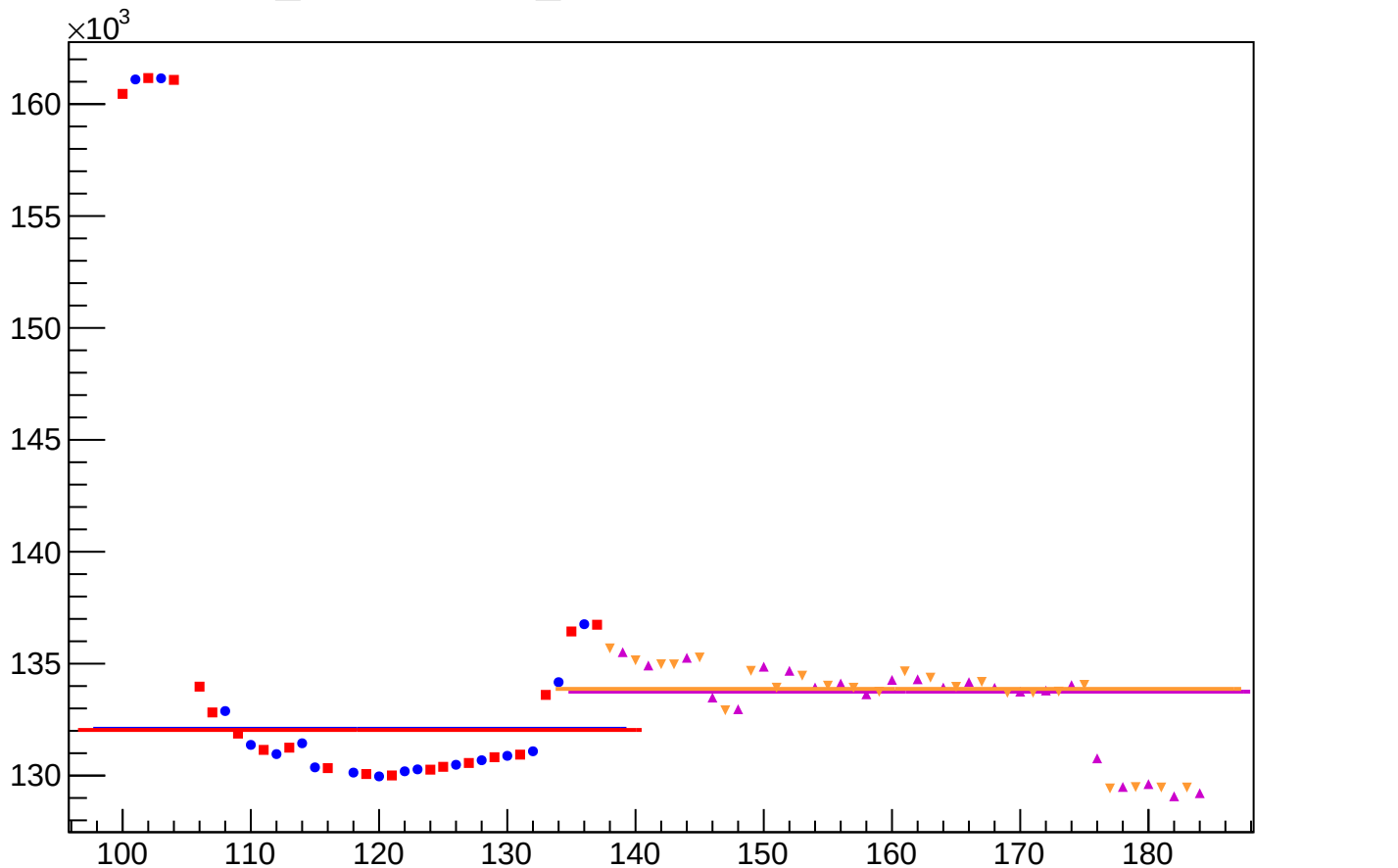
Right: 126.930 $\pm$ 0.026 χ^2 /NDF: 3020240.6/35

In: 168.106 $\pm$ 0.026 χ^2 /NDF:4466243.9/39

Out: 162.394 $\pm$ 0.024 χ^2 /NDF:4902112.3/42

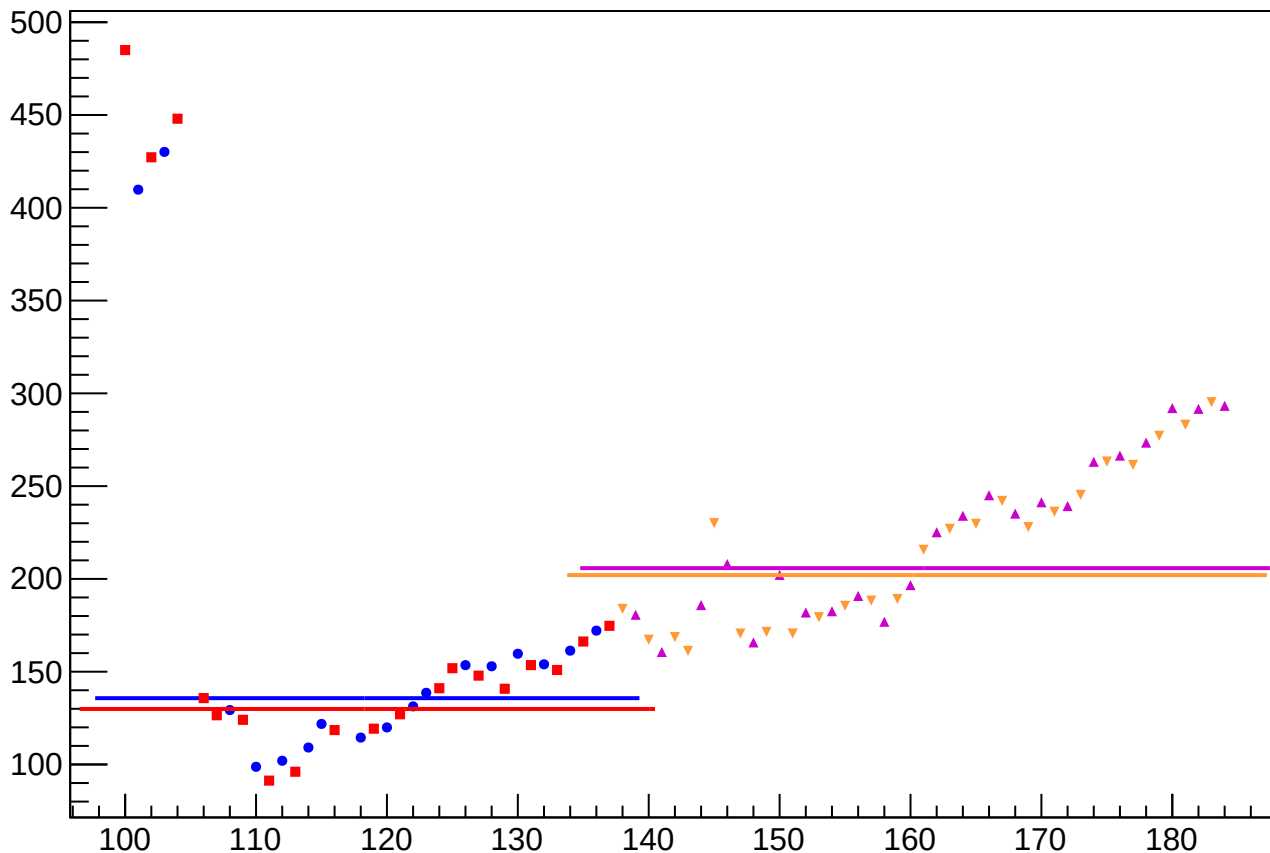
All: 165.091 $\pm$ 0.018 χ^2 /NDF: 9394427.8/82

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132090.159+/-0.057	χ^2/NDF : 6731961368.4/16	Left: 133813.713+/-0.035	χ^2/NDF : 1979542904.9/16
Left Out: 133872.928+/-0.049	χ^2/NDF : 1022376941.6/23	Right: 132062.178+/-0.039	χ^2/NDF : 12614215233.7/23
Right Out: 132038.077+/-0.053	χ^2/NDF : 5881799125.4/18	In: 133014.023+/-0.038	χ^2/NDF : 8164426549.6/39
Left In: 133749.630+/-0.051	χ^2/NDF : 954069486.7/22	Out: 133027.636+/-0.036	χ^2/NDF : 7561975989.1/40
		All: 133021.206+/-0.026	χ^2/NDF : 157264713.7/100

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.730 $\pm$ 0.040 χ^2/NDF : 1442560.7/16

Left Out: 202.048 $\pm$ 0.034 χ^2/NDF :1162014.5/23

Right Out: 129.912 $\pm$ 0.037 χ^2/NDF : 1498757.6/18

Left In: 205.808 $\pm$ 0.036 χ^2/NDF :1094330.7/22

Left: 203.854 $\pm$ 0.025 χ^2/NDF : 2262104.7/46

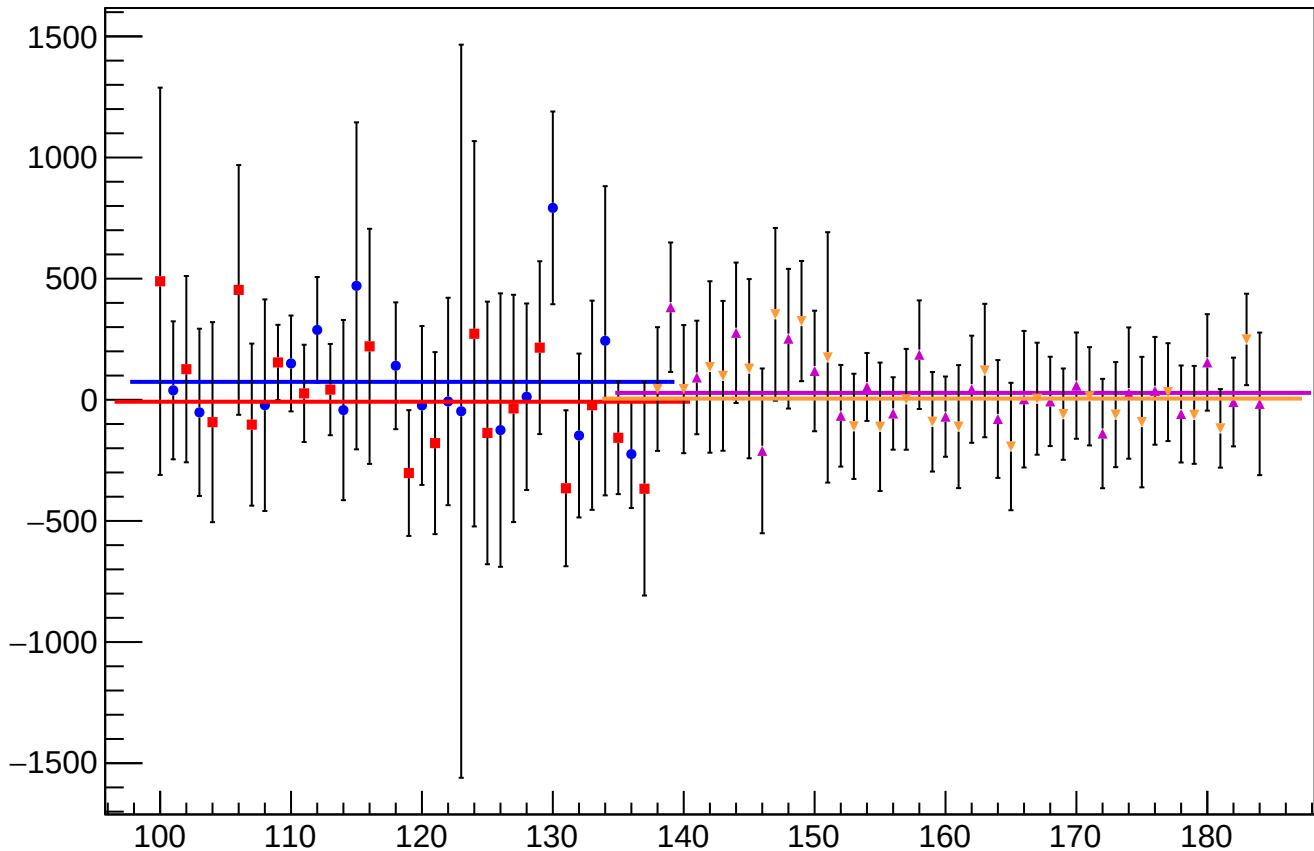
Right: 132.605 $\pm$ 0.027 χ^2/NDF : 2952668.5/35

In: 174.744 $\pm$ 0.027 χ^2/NDF :4243113.4/39

Out: 168.816 $\pm$ 0.025 χ^2/NDF :4694172.4/42

All: 171.616 $\pm$ 0.018 χ^2/NDF : 8963393.7/82

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.036 $\pm$ 79.233 χ^2 /NDF: 7.6/16

Left Out: 4.897 $\pm$ 48.225 χ^2 /NDF: 7.5/23

Right Out: -8.046 $\pm$ 70.080 χ^2 /NDF: 7.2/18

Left In: 28.452 $\pm$ 44.688 χ^2 /NDF: 6.7/22

Left: 17.569 $\pm$ 32.778 χ^2 /NDF: 14.3/46

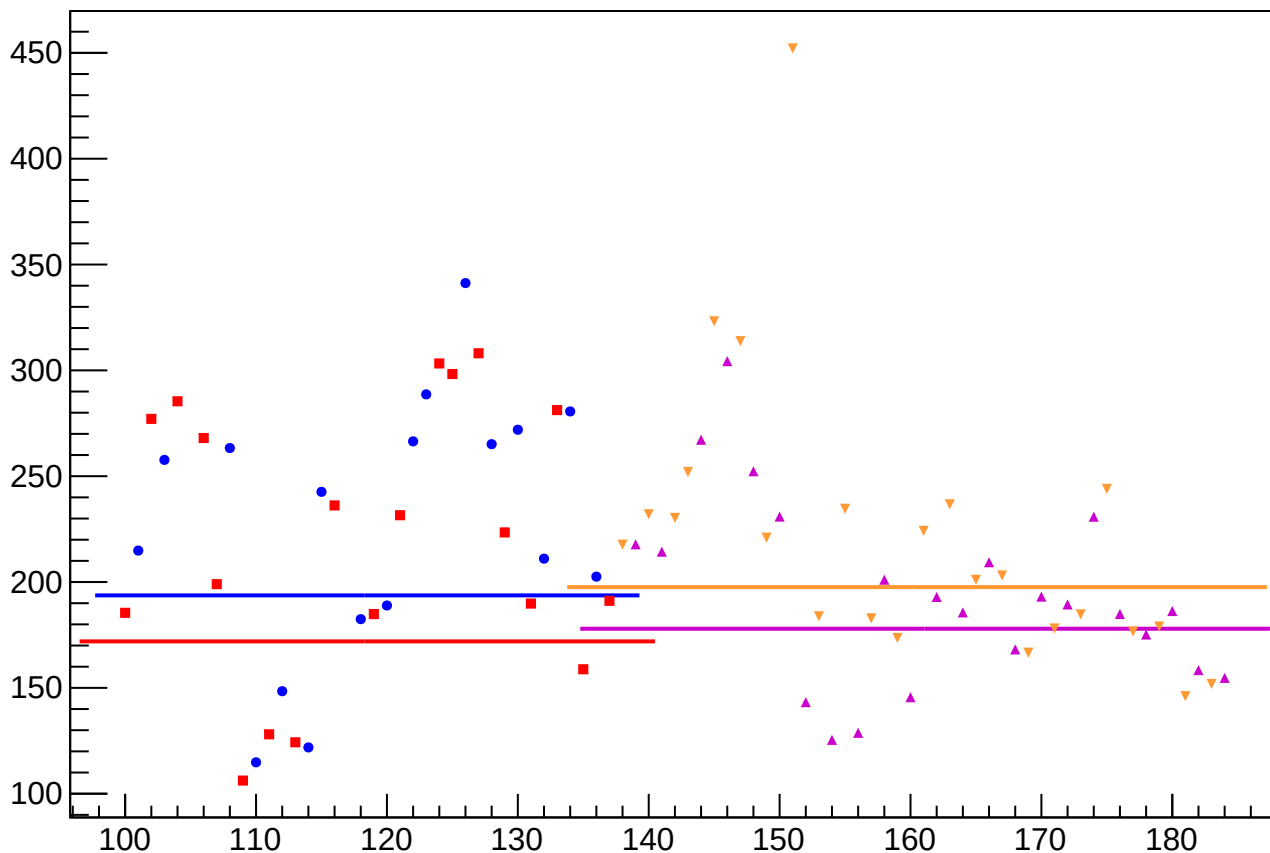
Right: 27.982 $\pm$ 52.493 χ^2 /NDF: 15.5/35

In: 39.453 $\pm$ 38.924 χ^2 /NDF: 14.6/39

Out: 0.737 $\pm$ 39.727 χ^2 /NDF: 14.7/42

All: 20.491 $\pm$ 27.803 χ^2 /NDF: 29.8/82

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.695 $\pm$ 0.056 χ^2/NDF : 1018039.6/16

Left Out: 197.610 $\pm$ 0.034 χ^2/NDF :1716138.3/23

Right Out: 171.963 $\pm$ 0.050 χ^2/NDF : 1574387.3/18

Left In: 177.933 $\pm$ 0.032 χ^2/NDF :1605780.8/22

Left: 187.024 $\pm$ 0.023 χ^2/NDF : 3501065.0/46

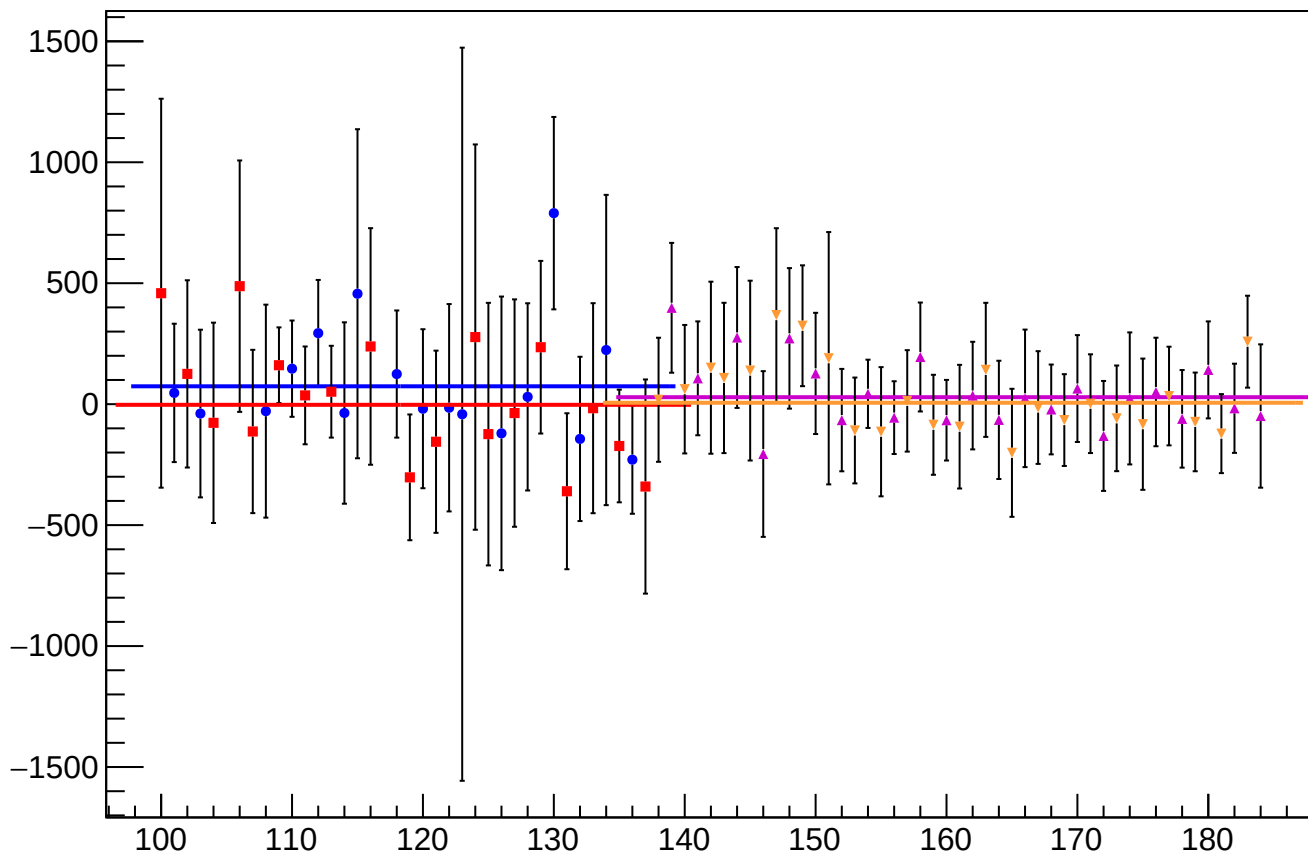
Right: 181.502 $\pm$ 0.037 χ^2/NDF : 2676847.4/35

In: 181.737 $\pm$ 0.028 χ^2/NDF :2683869.8/39

Out: 189.368 $\pm$ 0.028 χ^2/NDF :3472312.1/42

All: 185.475 $\pm$ 0.020 χ^2/NDF : 6193834.3/82

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 73.822 $\pm$ 79.620 χ^2 /NDF: 7.5/16

Left Out: 5.780 $\pm$ 48.561 χ^2 /NDF:7.8/23

Right Out: -2.721 $\pm$ 70.450 χ^2 /NDF: 7.4/18

Left In: 28.806 $\pm$ 44.980 χ^2 /NDF:6.8/22

Left: 18.173 $\pm$ 32.999 χ^2 /NDF: 14.7/46

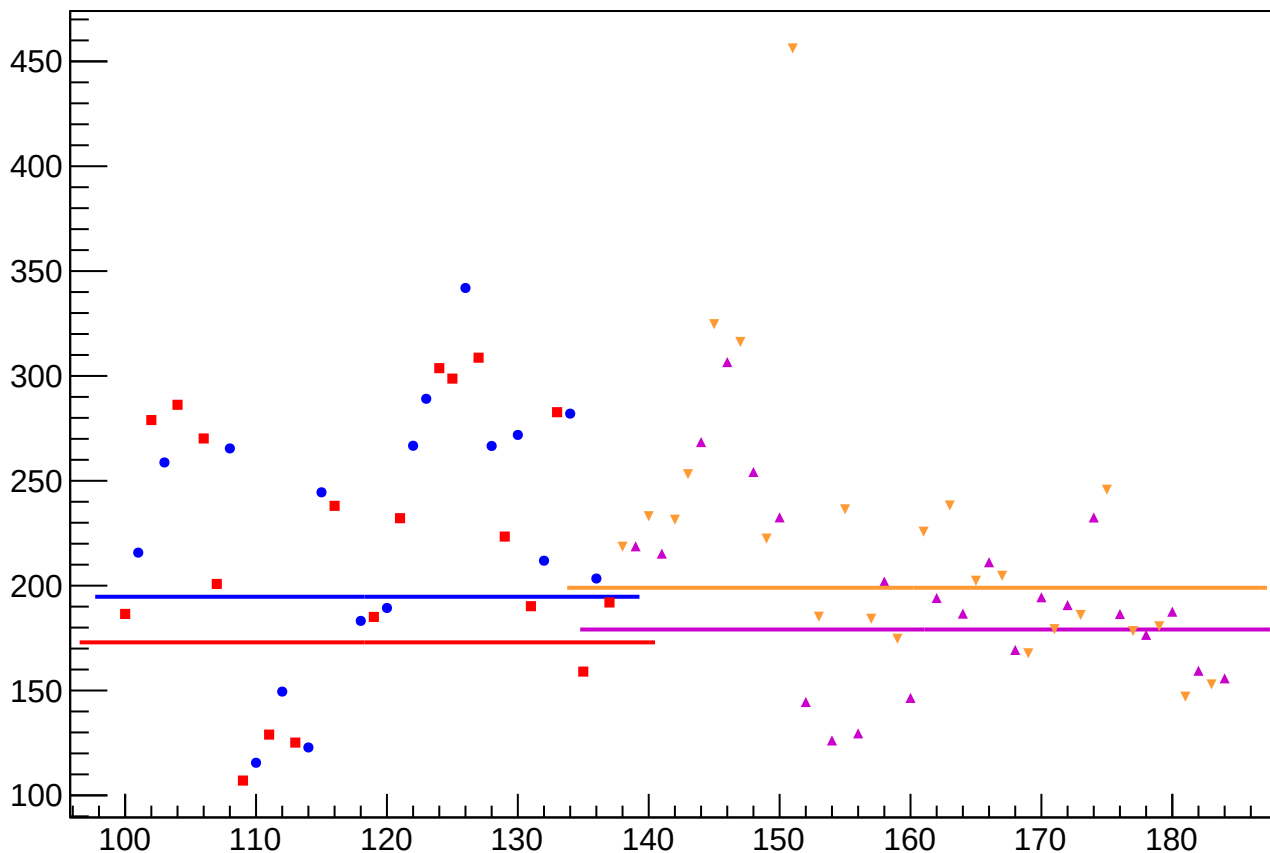
Right: 30.891 $\pm$ 52.761 χ^2 /NDF: 15.5/35

In: 39.697 $\pm$ 39.163 χ^2 /NDF:14.6/39

Out: 3.042 $\pm$ 39.983 χ^2 /NDF:15.2/42

All: 21.749 $\pm$ 27.978 χ^2 /NDF: 30.2/82

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.704 $\pm$ 0.056 χ^2 /NDF: 1009606.0/16

Left Out: 198.993 $\pm$ 0.034 χ^2 /NDF: 1712275.3/23

Right Out: 172.953 $\pm$ 0.050 χ^2 /NDF: 1562179.1/18

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF: 1605113.3/22

Left: 188.280 $\pm$ 0.023 χ^2 /NDF: 3498214.7/46

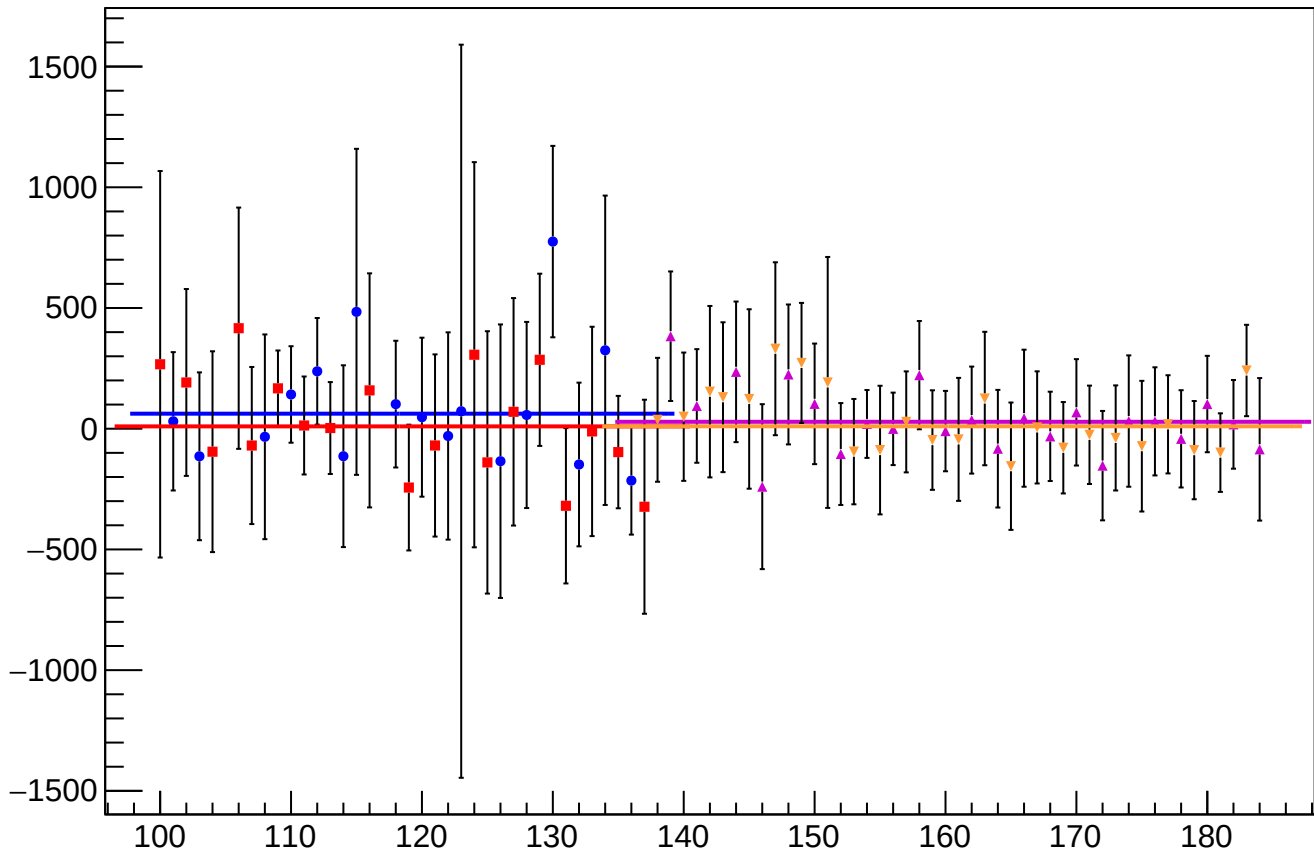
Right: 182.505 $\pm$ 0.037 χ^2 /NDF: 2655502.8/35

In: 182.867 $\pm$ 0.028 χ^2 /NDF: 2673030.7/39

Out: 190.606 $\pm$ 0.028 χ^2 /NDF: 3459681.9/42

All: 186.656 $\pm$ 0.020 χ^2 /NDF: 6170945.8/82

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 62.284 $\pm$ 79.616 χ^2 /NDF: 7.2/16

Left Out: 9.949 $\pm$ 48.435 χ^2 /NDF:6.1/23

Right Out: 9.662 $\pm$ 70.372 χ^2 /NDF: 5.9/18

Left In: 28.655 $\pm$ 44.859 χ^2 /NDF:6.1/22

Left: 20.018 $\pm$ 32.912 χ^2 /NDF: 12.3/46

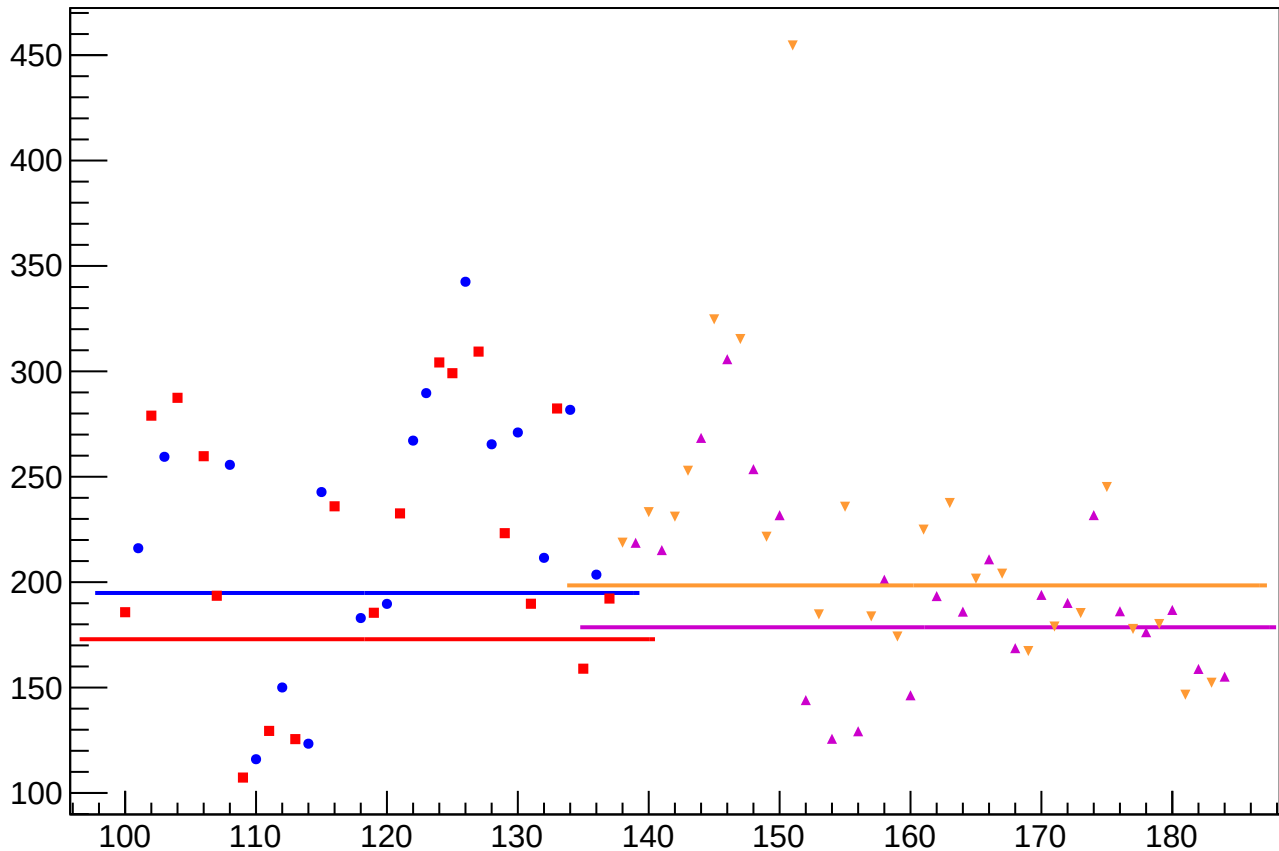
Right: 32.742 $\pm$ 52.727 χ^2 /NDF: 13.3/35

In: 36.759 $\pm$ 39.082 χ^2 /NDF:13.5/39

Out: 9.857 $\pm$ 39.898 χ^2 /NDF:12.0/42

All: 23.586 $\pm$ 27.919 χ^2 /NDF: 25.7/82

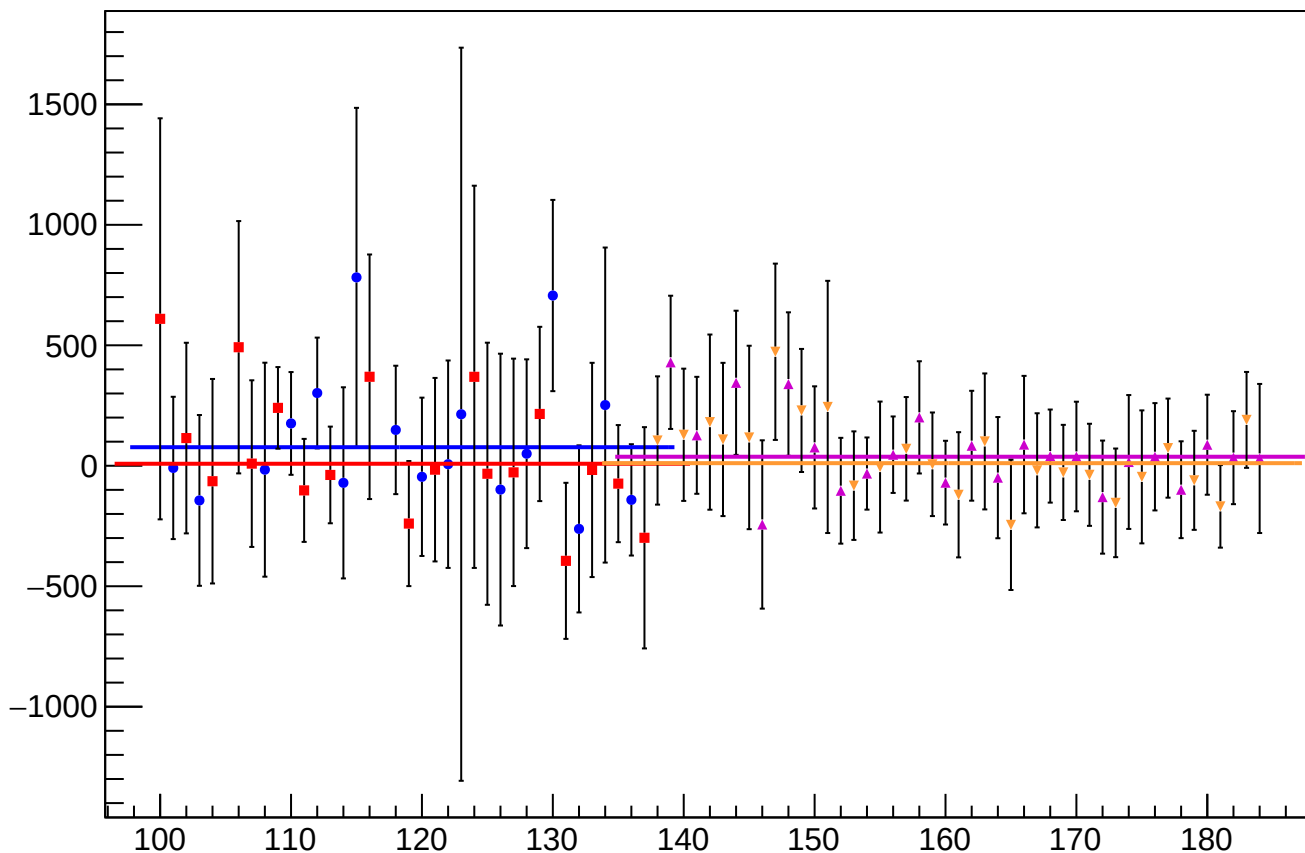
asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.868 $\pm$ 0.056 χ^2/NDF : 987545.2/16
 Left Out: 198.463 $\pm$ 0.034 χ^2/NDF : 1717475.9/23
 Right Out: 172.928 $\pm$ 0.050 χ^2/NDF : 1539123.2/18
 Left In: 178.601 $\pm$ 0.032 χ^2/NDF : 1608998.1/22

Left: 187.772 $\pm$ 0.023 χ^2/NDF : 3507510.2/46
 Right: 182.551 $\pm$ 0.037 χ^2/NDF : 2611939.6/35
 In: 182.521 $\pm$ 0.028 χ^2/NDF : 2659916.3/39
 Out: 190.255 $\pm$ 0.028 χ^2/NDF : 3435296.2/42
 All: 186.308 $\pm$ 0.020 χ^2/NDF : 6133563.5/82

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 77.030 $\pm$ 82.098 χ^2 /NDF: 7.6/16

Left Out: 10.802 $\pm$ 49.939 χ^2 /NDF: 7.5/23

Right Out: 8.365 $\pm$ 73.326 χ^2 /NDF: 7.8/18

Left In: 37.460 $\pm$ 46.479 χ^2 /NDF: 7.6/22

Left: 25.086 $\pm$ 34.023 χ^2 /NDF: 15.3/46

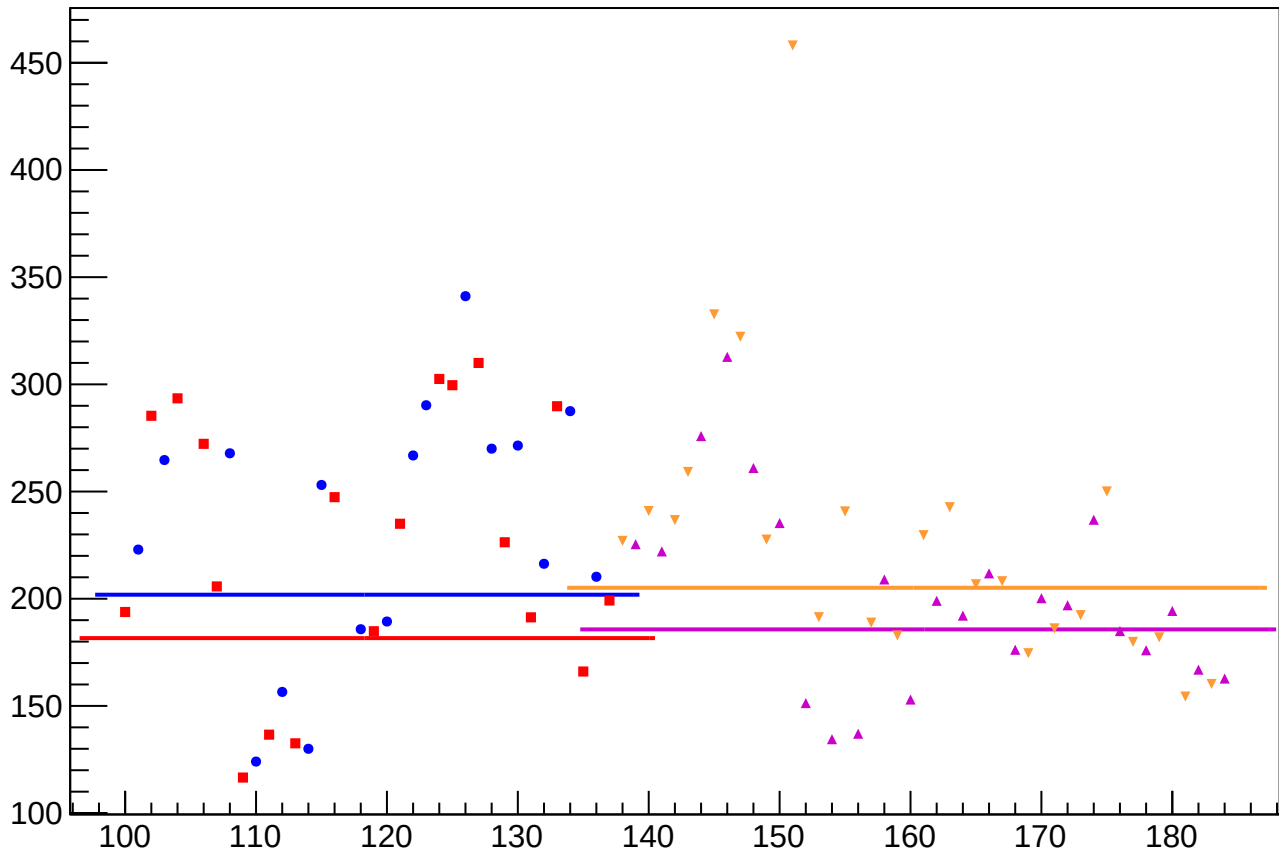
Right: 38.834 $\pm$ 54.689 χ^2 /NDF: 15.8/35

In: 47.064 $\pm$ 40.447 χ^2 /NDF: 15.4/39

Out: 10.029 $\pm$ 41.276 χ^2 /NDF: 15.3/42

All: 28.923 $\pm$ 28.889 χ^2 /NDF: 31.1/82

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.873 $\pm$ 0.058 χ^2 /NDF: 884412.3/16

Left Out: 205.103 $\pm$ 0.035 χ^2 /NDF: 1616654.1/23

Right Out: 181.626 $\pm$ 0.052 χ^2 /NDF: 1373392.9/18

Left In: 185.694 $\pm$ 0.033 χ^2 /NDF: 1447767.0/22

Left: 194.703 $\pm$ 0.024 χ^2 /NDF: 3226307.2/46

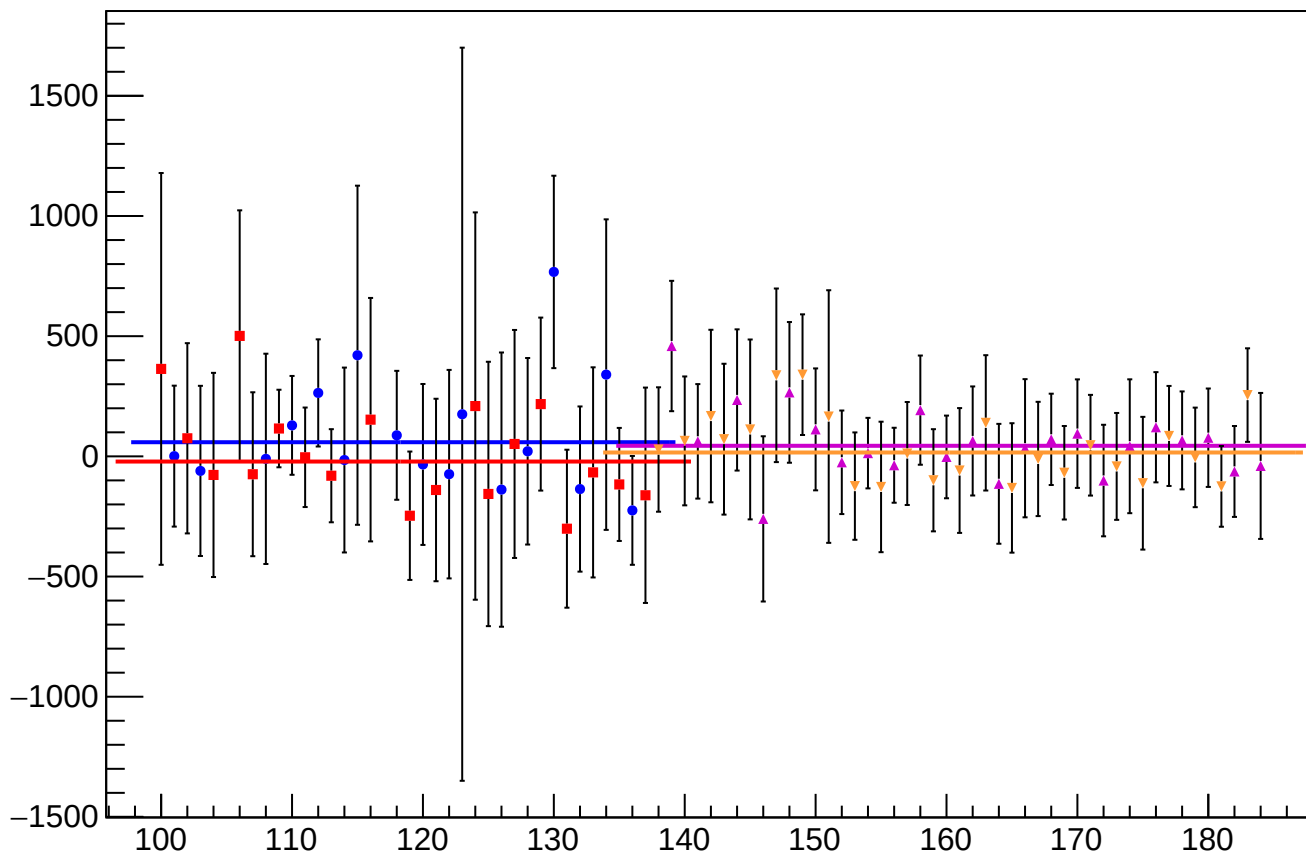
Right: 190.610 $\pm$ 0.039 χ^2 /NDF: 2325469.6/35

In: 189.621 $\pm$ 0.029 χ^2 /NDF: 2391001.4/39

Out: 197.664 $\pm$ 0.029 χ^2 /NDF: 3130105.0/42

All: 193.561 $\pm$ 0.020 χ^2 /NDF: 5559850.8/82

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 58.835 $\pm$ 81.036 χ^2 /NDF: 7.0/16

Left Out: 16.096 $\pm$ 49.486 χ^2 /NDF:7.2/23

Right Out: -21.559 $\pm$ 71.880 χ^2 /NDF: 4.7/18

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 31.059 $\pm$ 33.684 χ^2 /NDF: 13.9/46

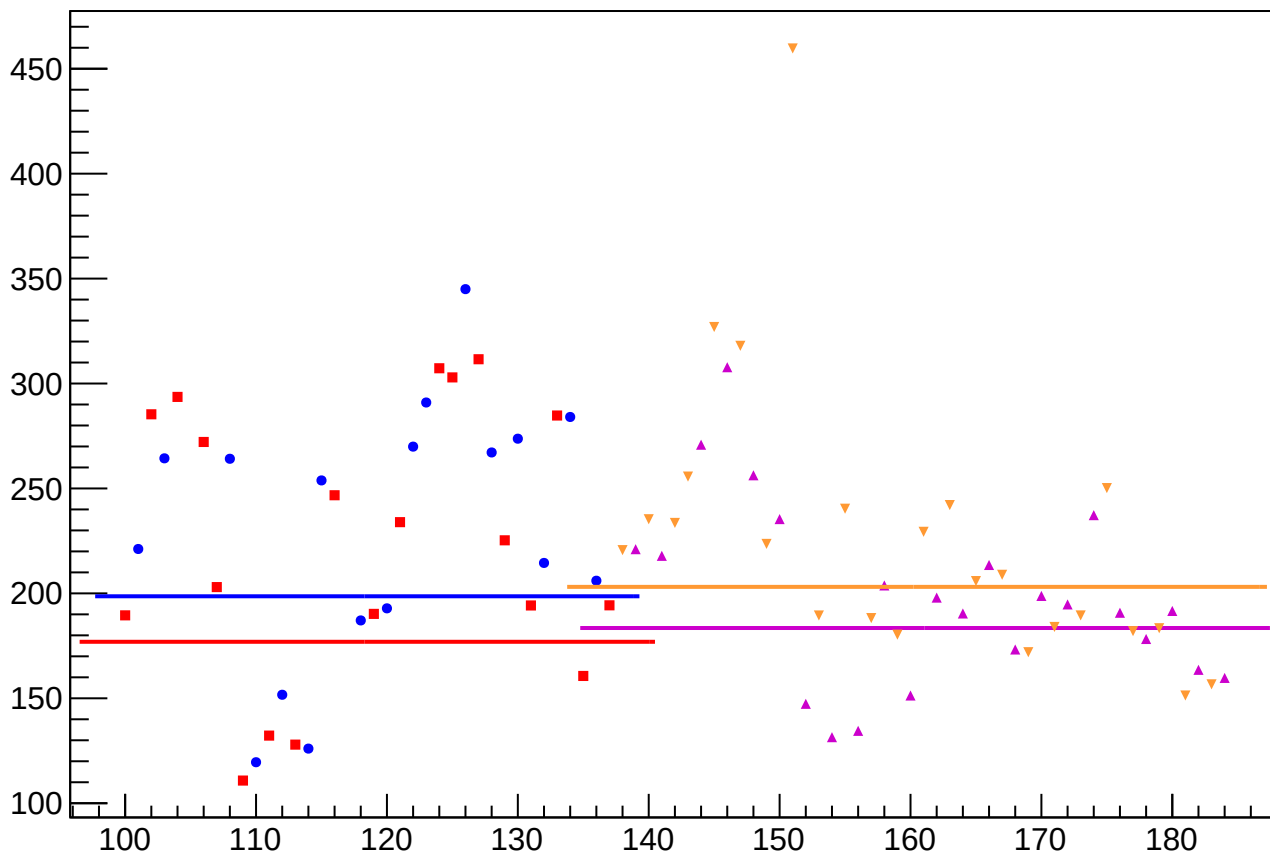
Right: 13.841 $\pm$ 53.774 χ^2 /NDF: 12.2/35

In: 47.597 $\pm$ 39.992 χ^2 /NDF:13.5/39

Out: 3.987 $\pm$ 40.760 χ^2 /NDF:12.1/42

All: 26.207 $\pm$ 28.546 χ^2 /NDF: 26.2/82

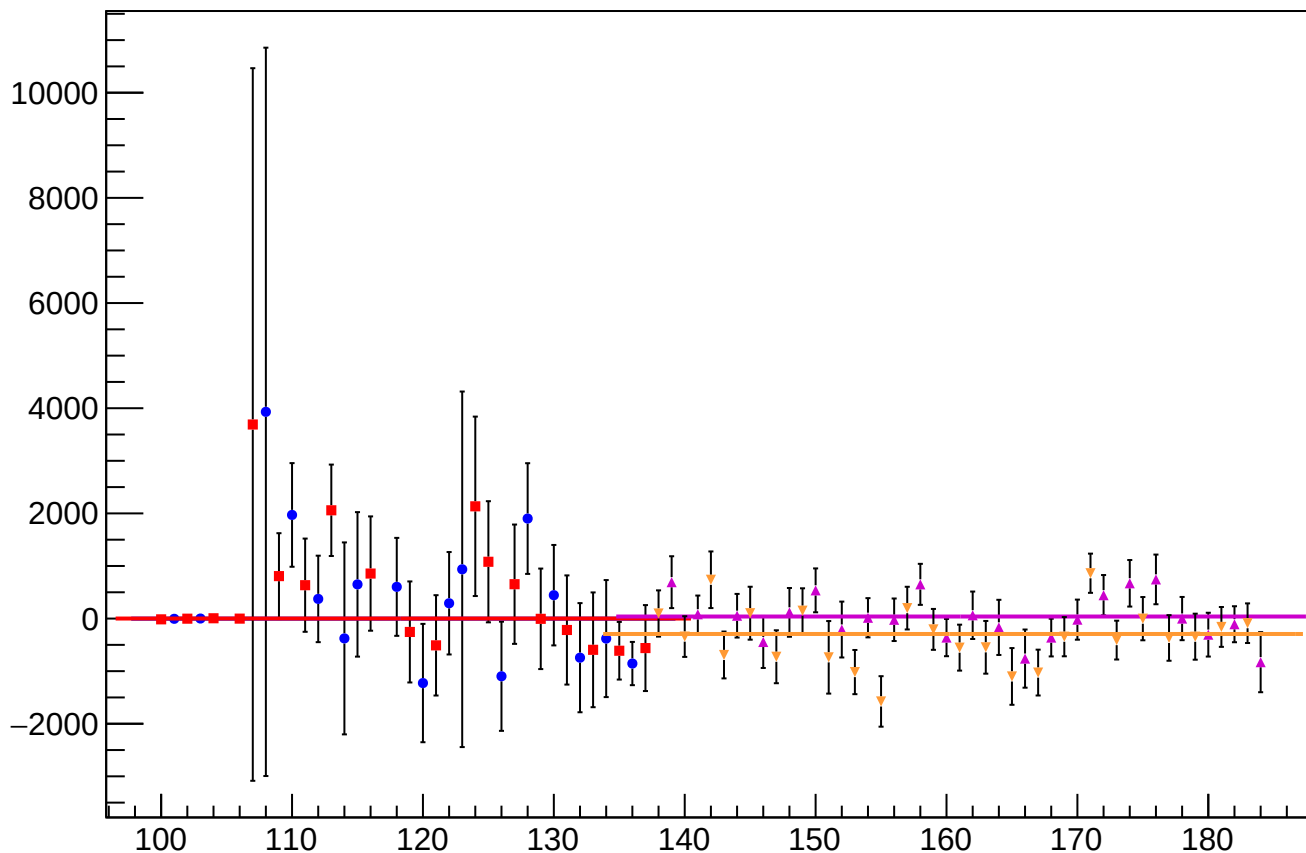
asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.615 $\pm$ 0.057 χ^2 /NDF: 965079.3/16
 Left Out: 203.103 $\pm$ 0.035 χ^2 /NDF:1633782.2/23
 Right Out: 176.933 $\pm$ 0.051 χ^2 /NDF: 1519414.5/18
 Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.582 $\pm$ 0.024 χ^2 /NDF: 3285624.6/46
 Right: 186.480 $\pm$ 0.038 χ^2 /NDF: 2564624.8/35
 In: 187.180 $\pm$ 0.028 χ^2 /NDF:2501109.3/39
 Out: 194.688 $\pm$ 0.029 χ^2 /NDF:3333058.5/42
 All: 190.862 $\pm$ 0.020 χ^2 /NDF: 5868742.0/82

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.530 ± 2.251 χ^2/NDF : 17.4/16

Left Out: -293.090 ± 88.156 χ^2/NDF : 36.1/23

Right Out: 0.726 ± 2.111 χ^2/NDF : 19.1/18

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -126.276 ± 62.199 χ^2/NDF : 63.5/46

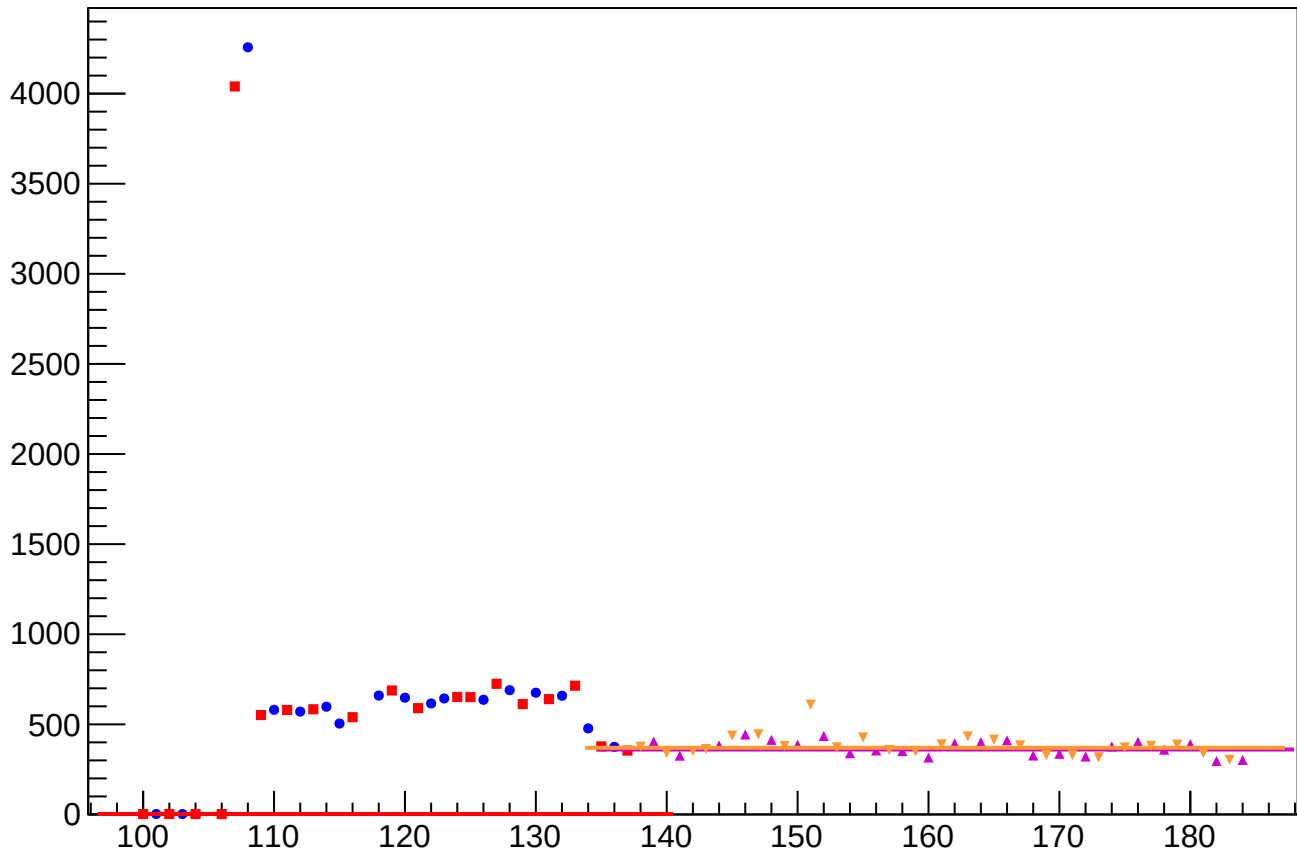
Right: -0.329 ± 1.540 χ^2/NDF : 37.1/35

In: -1.503 ± 2.251 χ^2/NDF : 37.9/39

Out: 0.557 ± 2.111 χ^2/NDF : 66.4/42

All: -0.407 ± 1.540 χ^2/NDF : 104.7/82

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.456+/-0.002 χ^2/NDF : 10808630.7/16

Left Out: 369.978+/-0.062 χ^2/NDF : 589730.1/23

Right Out: 2.437+/-0.001 χ^2/NDF : 11101281.1/18

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 365.172+/-0.044 χ^2/NDF : 1019305.1/46

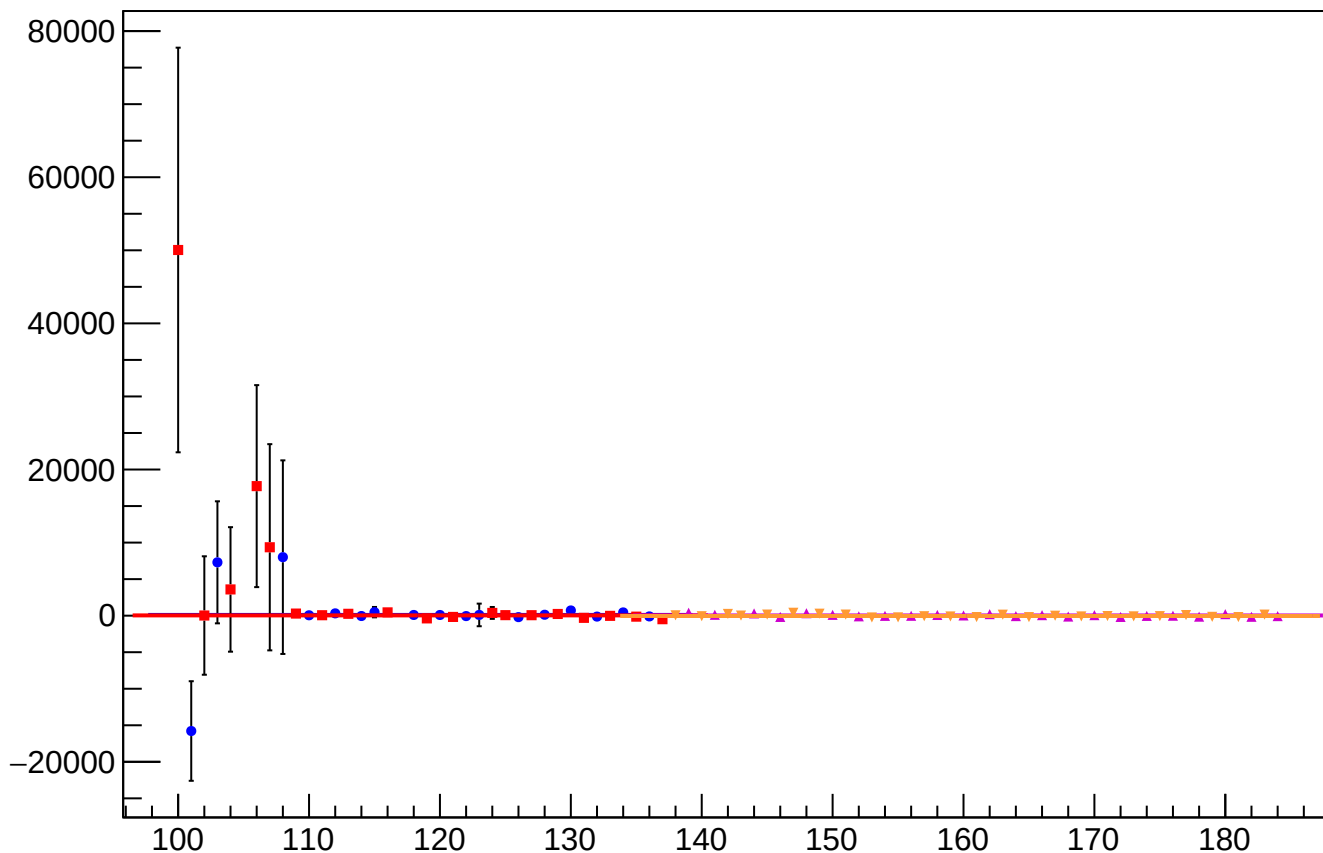
Right: 2.446+/-0.001 χ^2/NDF : 21909994.5/35

In: 2.692+/-0.002 χ^2/NDF : 44469855.2/39

Out: 2.647+/-0.001 χ^2/NDF : 46435832.8/42

All: 2.668+/-0.001 χ^2/NDF : 90906105.3/82

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 100.742 $\pm$ 91.159 χ^2 /NDF: 12.0/16

Left Out: -43.062 $\pm$ 50.286 χ^2 /NDF:8.7/23

Right Out: 37.835 $\pm$ 84.525 χ^2 /NDF: 14.0/18

Left In: 28.205 $\pm$ 48.167 χ^2 /NDF:9.2/22

Left: -5.895 $\pm$ 34.784 χ^2 /NDF: 18.9/46

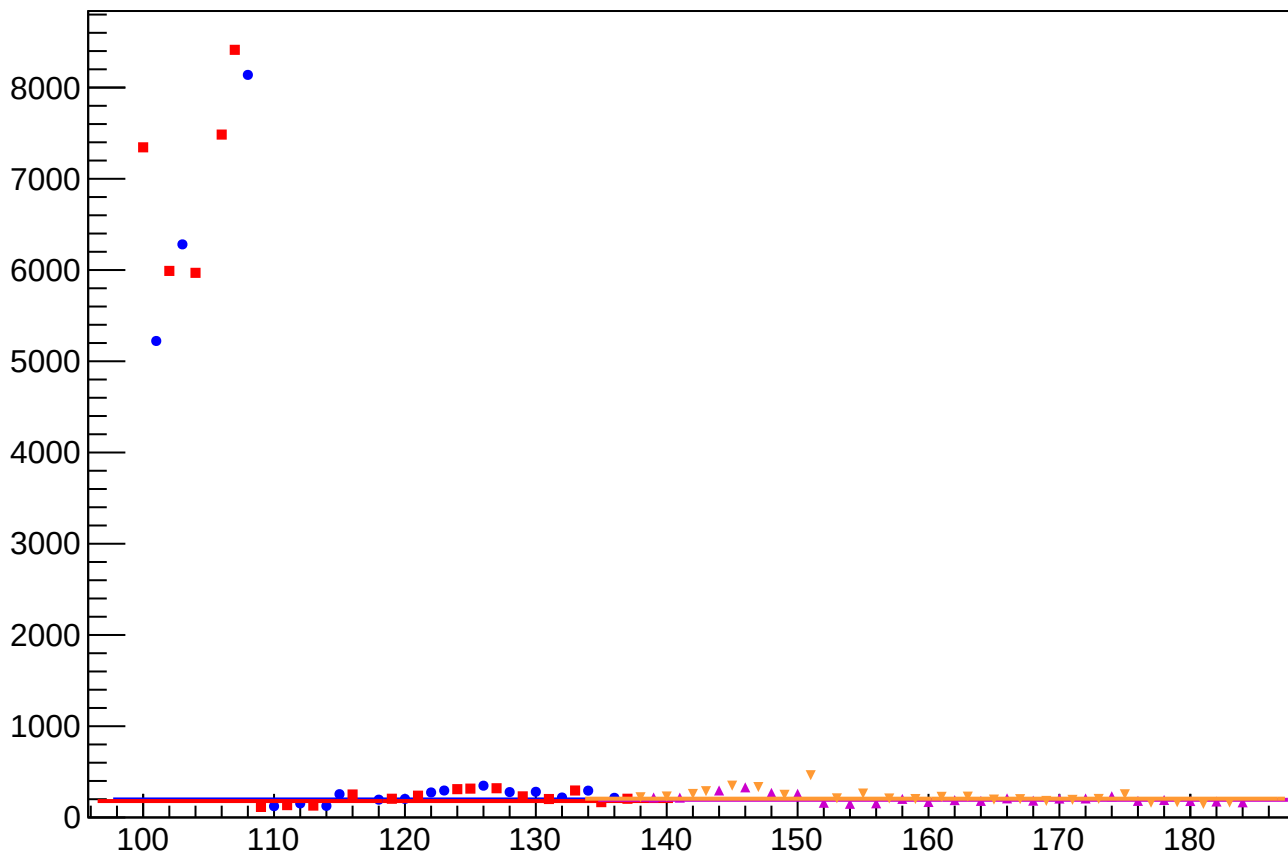
Right: 66.916 $\pm$ 61.981 χ^2 /NDF: 26.3/35

In: 44.036 $\pm$ 42.587 χ^2 /NDF:21.7/39

Out: -21.915 $\pm$ 43.217 χ^2 /NDF:23.4/42

All: 11.544 $\pm$ 30.334 χ^2 /NDF: 46.2/82

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.308 $\pm$ 0.064 χ^2 /NDF: 3696256.2/16

Left Out: 205.797 $\pm$ 0.036 χ^2 /NDF:1904564.4/23

Right Out: 179.749 $\pm$ 0.060 χ^2 /NDF: 4315581.1/18

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 199.334 $\pm$ 0.025 χ^2 /NDF: 3140076.3/46

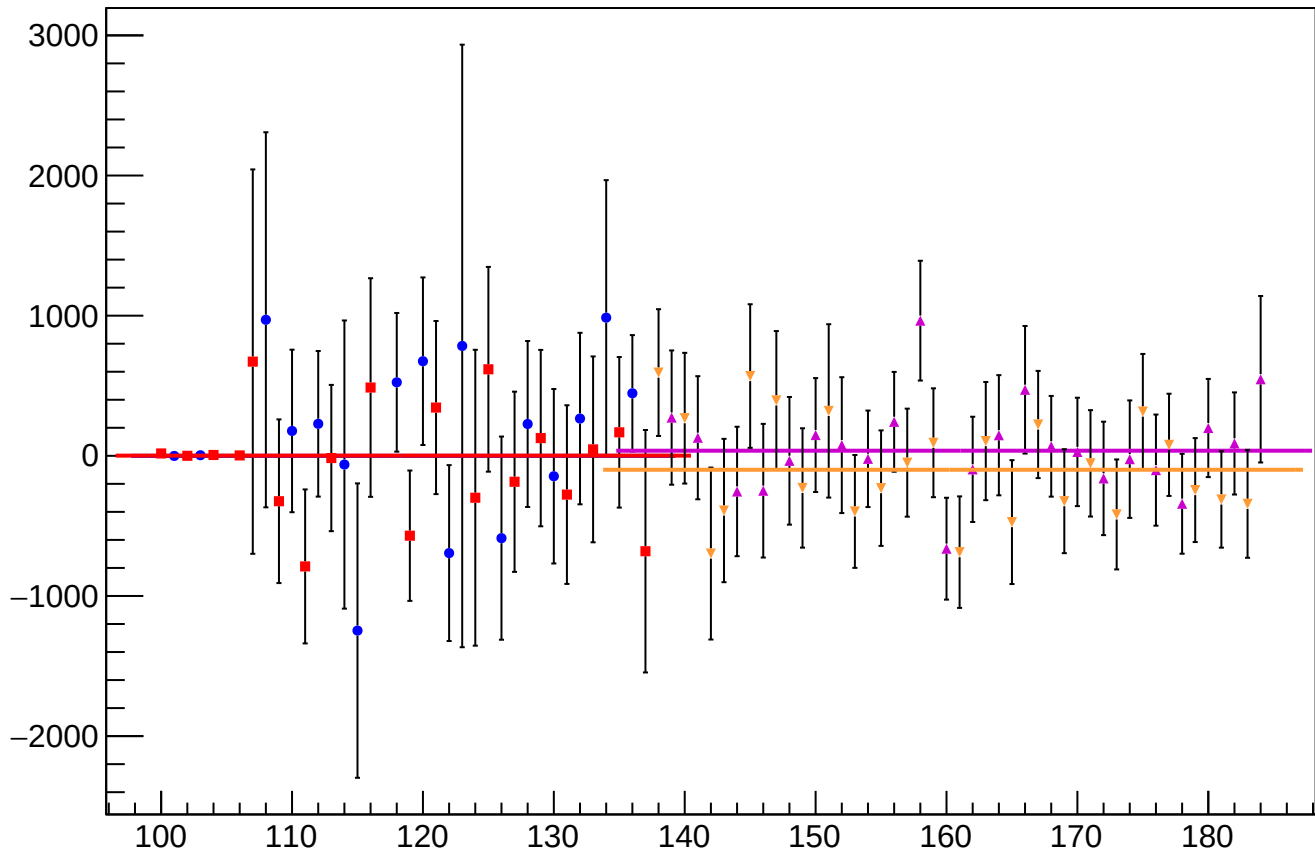
Right: 187.866 $\pm$ 0.044 χ^2 /NDF: 8051736.9/35

In: 194.257 $\pm$ 0.030 χ^2 /NDF:4871291.4/39

Out: 198.988 $\pm$ 0.031 χ^2 /NDF:6360431.7/42

All: 196.587 $\pm$ 0.021 χ^2 /NDF: 11243882.9/82

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.140 $\pm$ 1.737 χ^2/NDF : 10.0/16

Left Out: -99.419 $\pm$ 85.150 χ^2/NDF :15.5/23

Right Out: 1.323 $\pm$ 1.623 χ^2/NDF : 9.4/18

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -31.081 $\pm$ 60.042 χ^2/NDF : 30.3/46

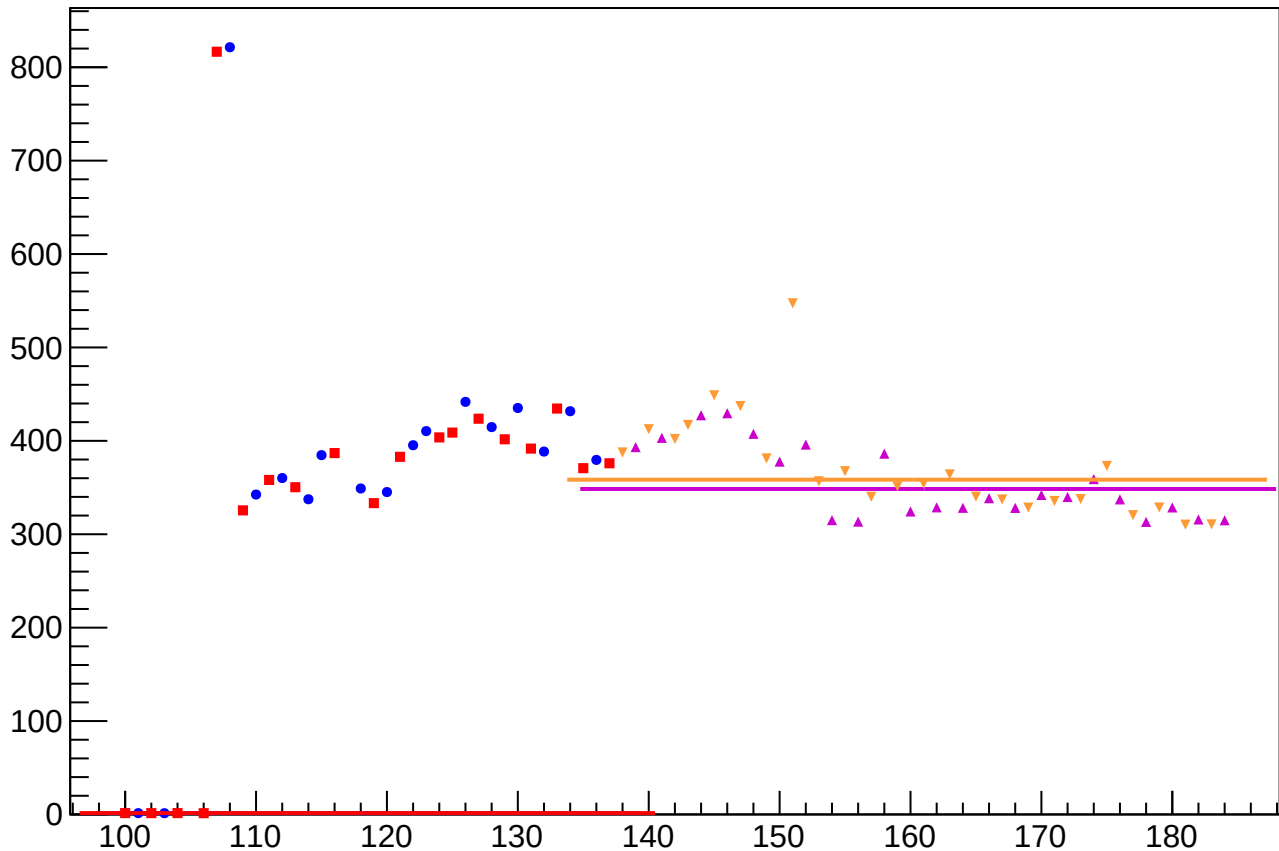
Right: 0.641 $\pm$ 1.186 χ^2/NDF : 19.8/35

In: -0.124 $\pm$ 1.736 χ^2/NDF :23.7/39

Out: 1.286 $\pm$ 1.622 χ^2/NDF :26.3/42

All: 0.629 $\pm$ 1.185 χ^2/NDF : 50.4/82

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10914608.7/16

Left Out: 358.440+/-0.060 χ^2/NDF : 526038.2/23

Right Out: 1.451+/-0.001 χ^2/NDF : 10838834.3/18

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.424+/-0.042 χ^2/NDF : 900265.9/46

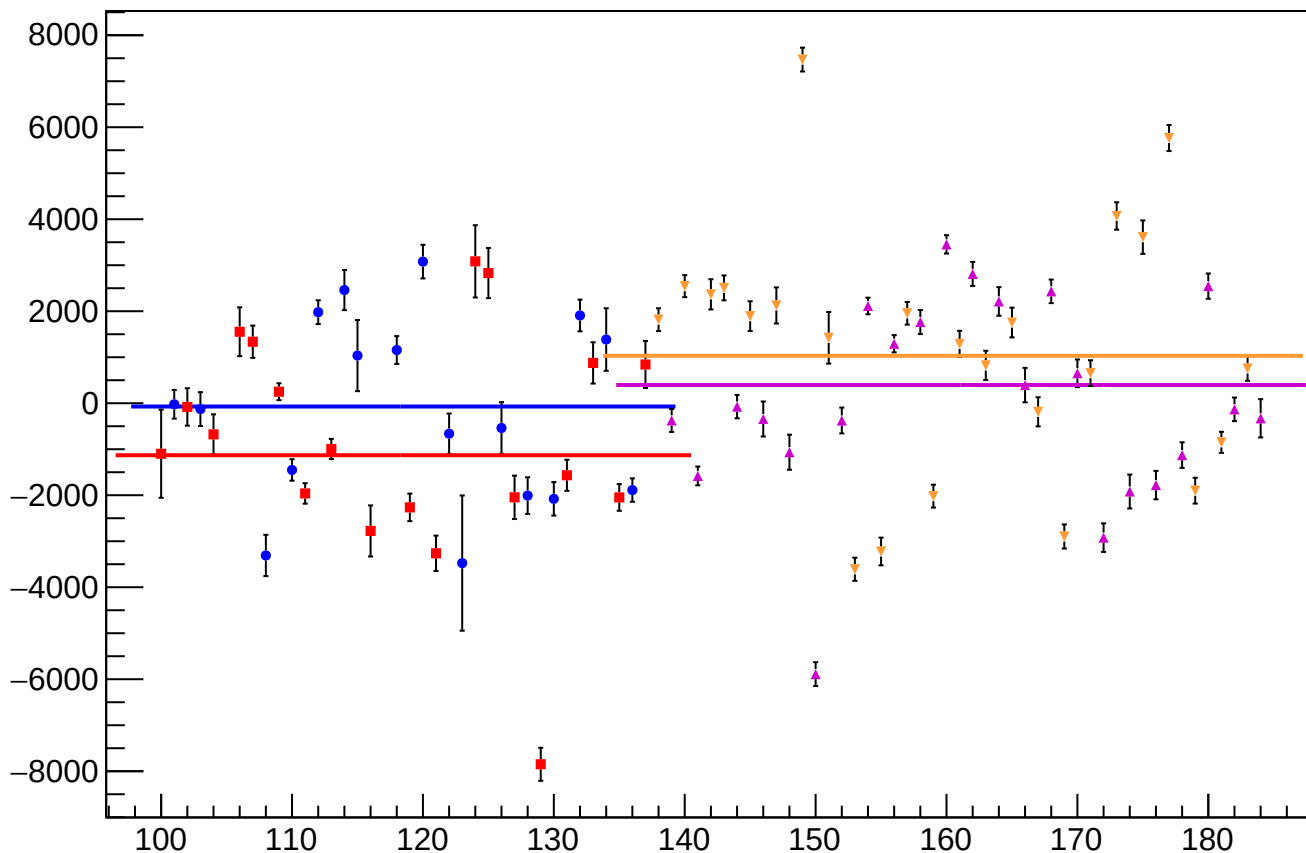
Right: 1.452+/-0.001 χ^2/NDF : 21753444.0/35

In: 1.599+/-0.001 χ^2/NDF : 44850468.9/39

Out: 1.580+/-0.001 χ^2/NDF : 46505826.9/42

All: 1.589+/-0.001 χ^2/NDF : 91356410.7/82

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -71.539 ± 87.764 $\chi^2/\text{NDF}: 426.3/16$

Left Out: 1031.045 ± 58.098 $\chi^2/\text{NDF}: 2296.3/23$

Right Out: -1130.395 ± 78.436 $\chi^2/\text{NDF}: 688.9/18$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 696.981 ± 39.976 $\chi^2/\text{NDF}: 3940.1/46$

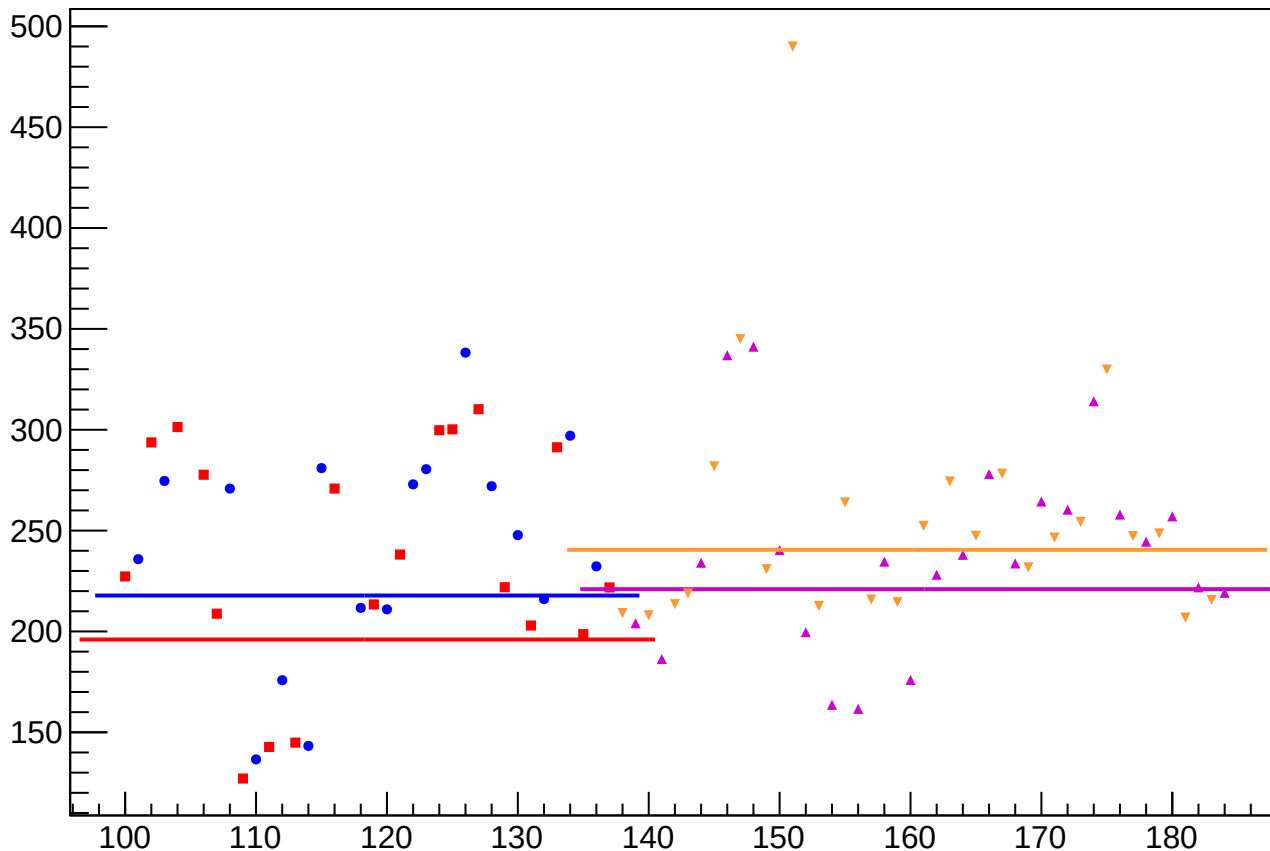
Right: -660.208 ± 58.484 $\chi^2/\text{NDF}: 1196.1/35$

In: 264.288 ± 46.659 $\chi^2/\text{NDF}: 2027.7/39$

Out: 265.311 ± 46.686 $\chi^2/\text{NDF}: 3475.5/42$

All: 264.799 ± 33.002 $\chi^2/\text{NDF}: 5503.2/82$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.814 ± 0.062 χ^2/NDF : 661049.8/16

Left Out: 240.480 ± 0.041 χ^2/NDF : 992933.4/23

Right Out: 196.014 ± 0.055 χ^2/NDF : 1189121.8/18

Left In: 220.972 ± 0.039 χ^2/NDF : 1327680.6/22

Left: 230.208 ± 0.028 χ^2/NDF : 2439354.2/46

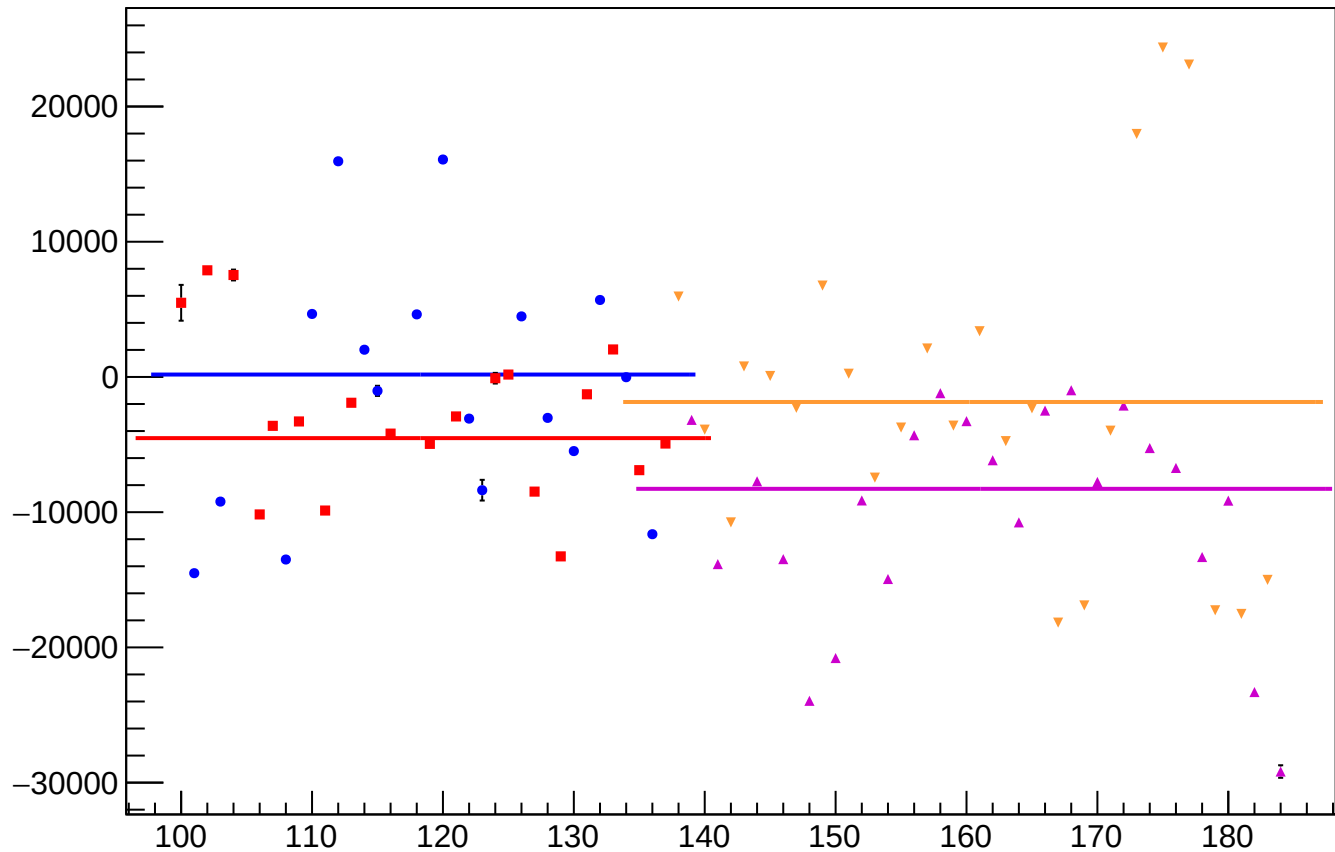
Right: 205.694 ± 0.041 χ^2/NDF : 1918777.4/35

In: 220.079 ± 0.033 χ^2/NDF : 1990587.6/39

Out: 224.727 ± 0.033 χ^2/NDF : 2597116.5/42

All: 222.402 ± 0.023 χ^2/NDF : 4597620.6/82

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788+/-54.896 χ^2/NDF : 30662.2/16

Left Out: -1850.195+/-42.671 χ^2/NDF : 62507.7/23

Right Out: -4523.222+/-52.440 χ^2/NDF : 7474.2/18

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4941.357+/-30.733 χ^2/NDF : 96282.2/46

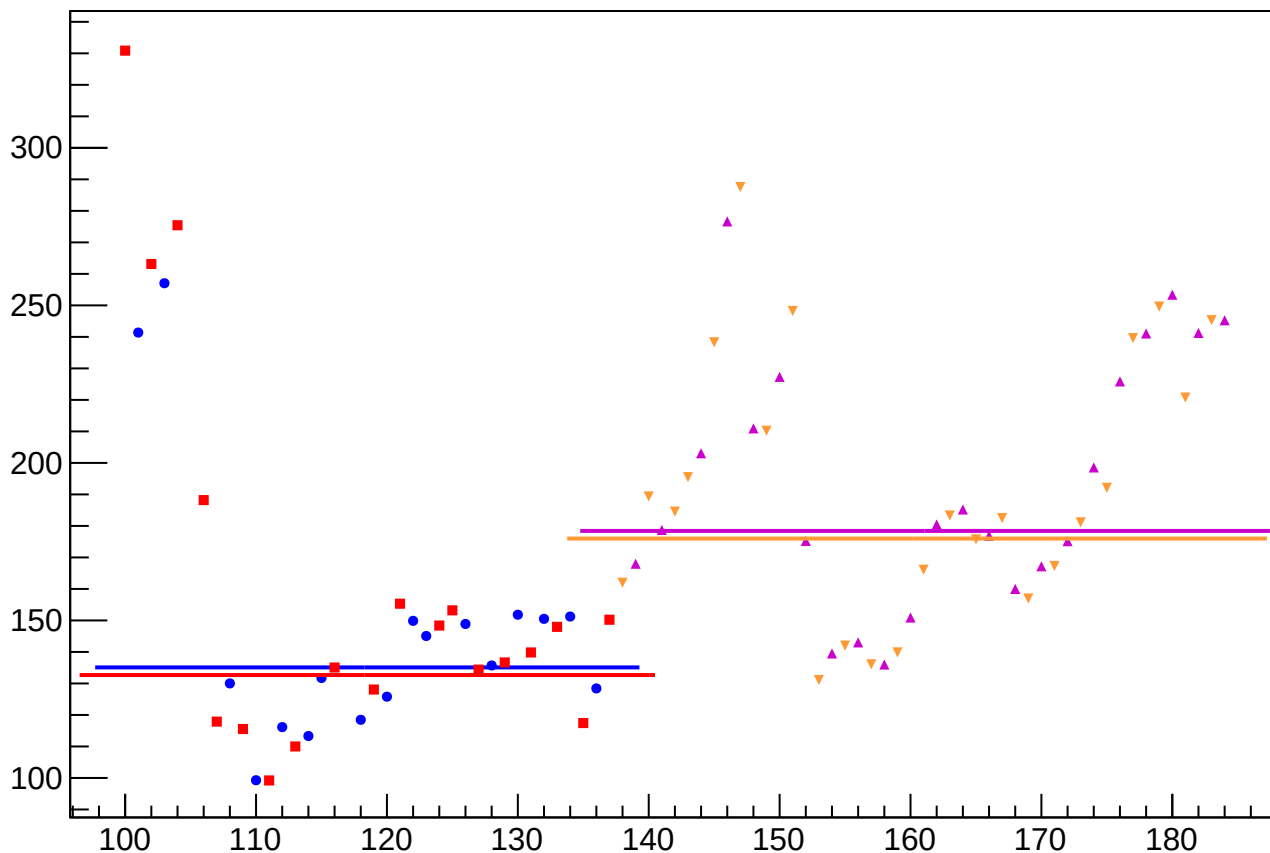
Right: -2279.776+/-37.919 χ^2/NDF : 41972.4/35

In: -4939.792+/-34.475 χ^2/NDF : 67888.0/39

Out: -2915.027+/-33.098 χ^2/NDF : 71545.1/42

All: -3886.148+/-23.876 χ^2/NDF : 141228.1/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099+/-0.039 χ^2/NDF : 657657.4/16

Left Out: 175.992+/-0.030 χ^2/NDF :1510458.7/23

Right Out: 132.672+/-0.037 χ^2/NDF : 828363.1/18

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.157+/-0.022 χ^2/NDF : 2807293.2/46

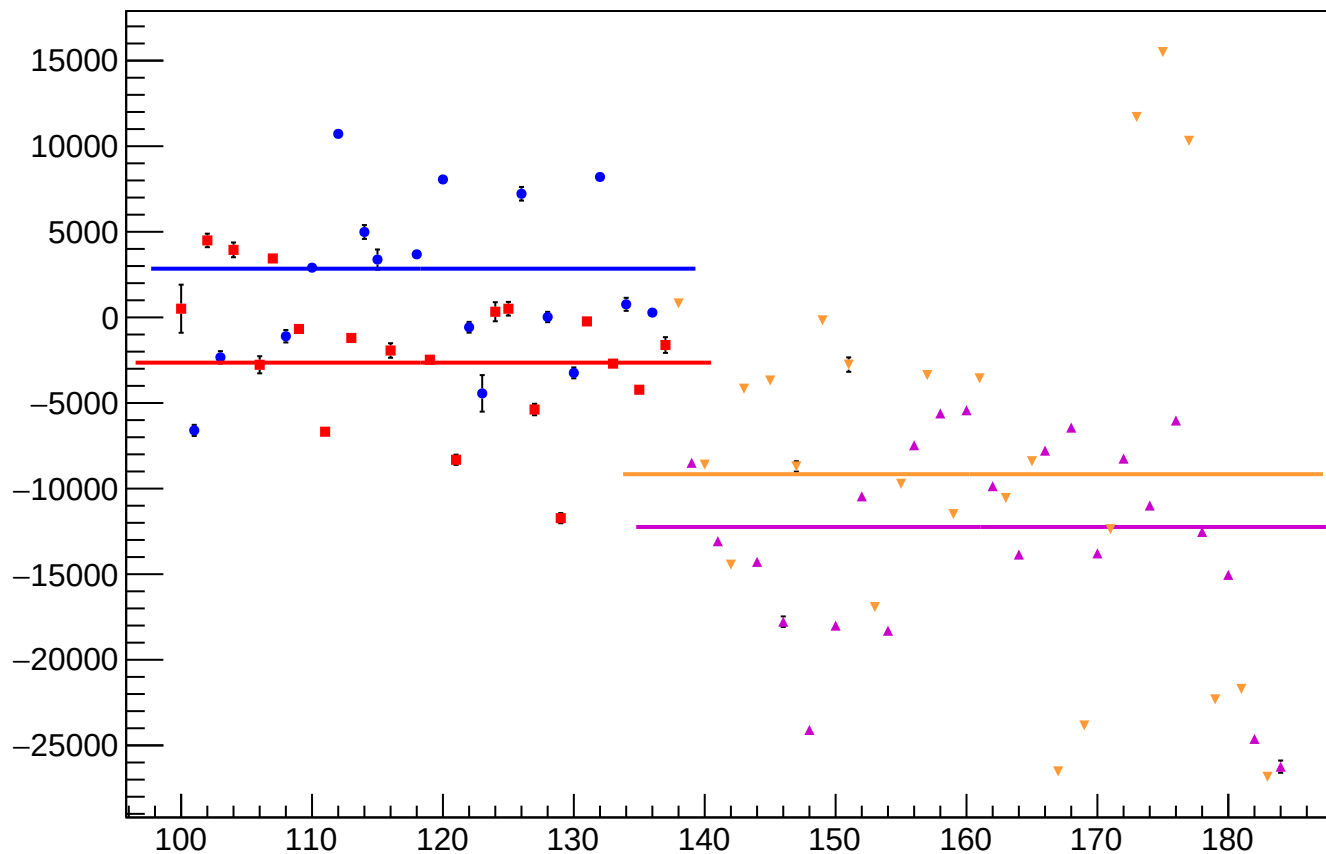
Right: 133.830+/-0.027 χ^2/NDF : 1488063.7/35

In: 161.330+/-0.024 χ^2/NDF :2705447.5/39

Out: 158.735+/-0.023 χ^2/NDF :3159978.8/42

All: 159.980+/-0.017 χ^2/NDF : 5871322.8/82

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117 $\pm$ 70.894 χ^2 /NDF: 4160.1/16

Left Out: -9157.806 $\pm$ 45.986 χ^2 /NDF:59867.8/23

Right Out: -2643.505 $\pm$ 65.711 χ^2 /NDF: 3177.7/18

Left In: -12242.226 $\pm$ 43.944 χ^2 /NDF:16615.8/22

Left: -10770.014 $\pm$ 31.771 χ^2 /NDF: 78835.1/46

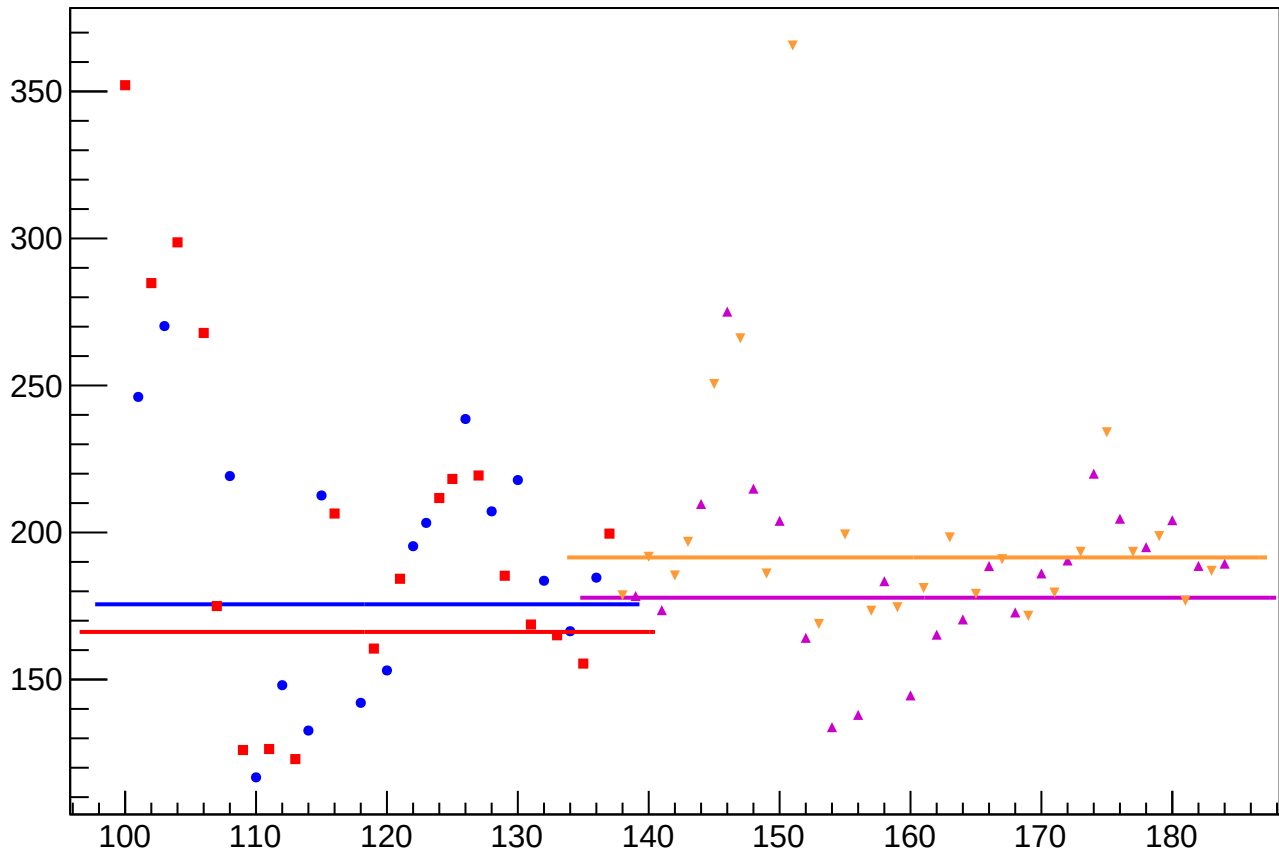
Right: -106.685 $\pm$ 48.193 χ^2 /NDF: 10563.0/35

In: -8054.077 $\pm$ 37.351 χ^2 /NDF:53499.1/39

Out: -7016.224 $\pm$ 37.677 χ^2 /NDF:69642.5/42

All: -7539.656 $\pm$ 26.525 χ^2 /NDF: 123524.3/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582 $\pm$ 0.050 χ^2/NDF : 687852.4/16

Left Out: 191.517 $\pm$ 0.033 χ^2/NDF : 725777.4/23

Right Out: 166.180 $\pm$ 0.046 χ^2/NDF : 925559.0/18

Left In: 177.821 $\pm$ 0.031 χ^2/NDF : 862494.4/22

Left: 184.358 $\pm$ 0.022 χ^2/NDF : 1680992.5/46

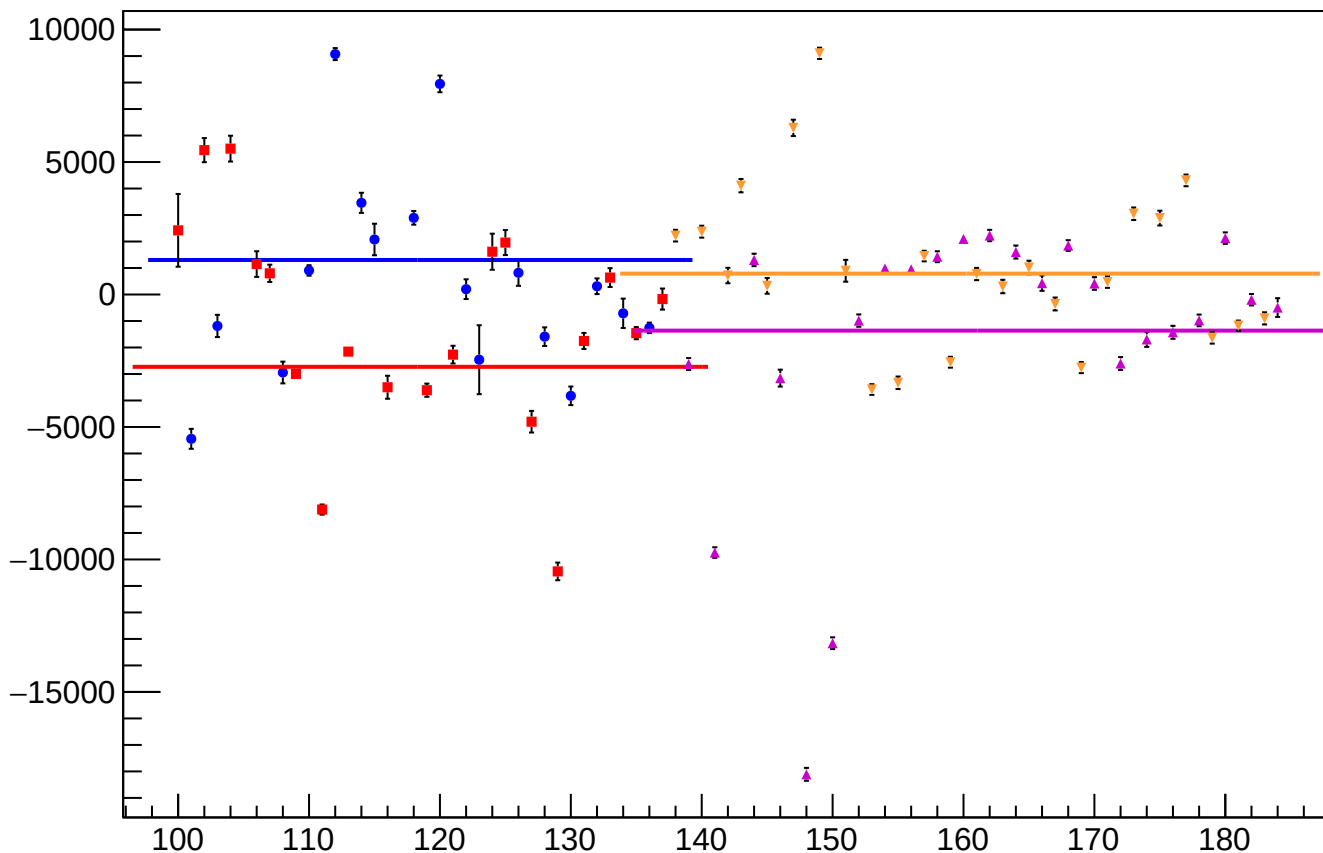
Right: 170.525 $\pm$ 0.034 χ^2/NDF : 1632331.4/35

In: 177.200 $\pm$ 0.026 χ^2/NDF : 1551788.7/39

Out: 183.187 $\pm$ 0.027 χ^2/NDF : 1850929.8/42

All: 180.168 $\pm$ 0.019 χ^2/NDF : 3428194.3/82

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 $\pm$ 77.323 χ^2/NDF : 2649.9/16

Left Out: 787.838 $\pm$ 47.968 χ^2/NDF :4146.3/23

Right Out: -2729.355 $\pm$ 70.012 χ^2/NDF : 2497.2/18

Left In: -1363.043 $\pm$ 45.807 χ^2/NDF :11632.9/22

Left: -337.155 $\pm$ 33.128 χ^2/NDF : 16830.7/46

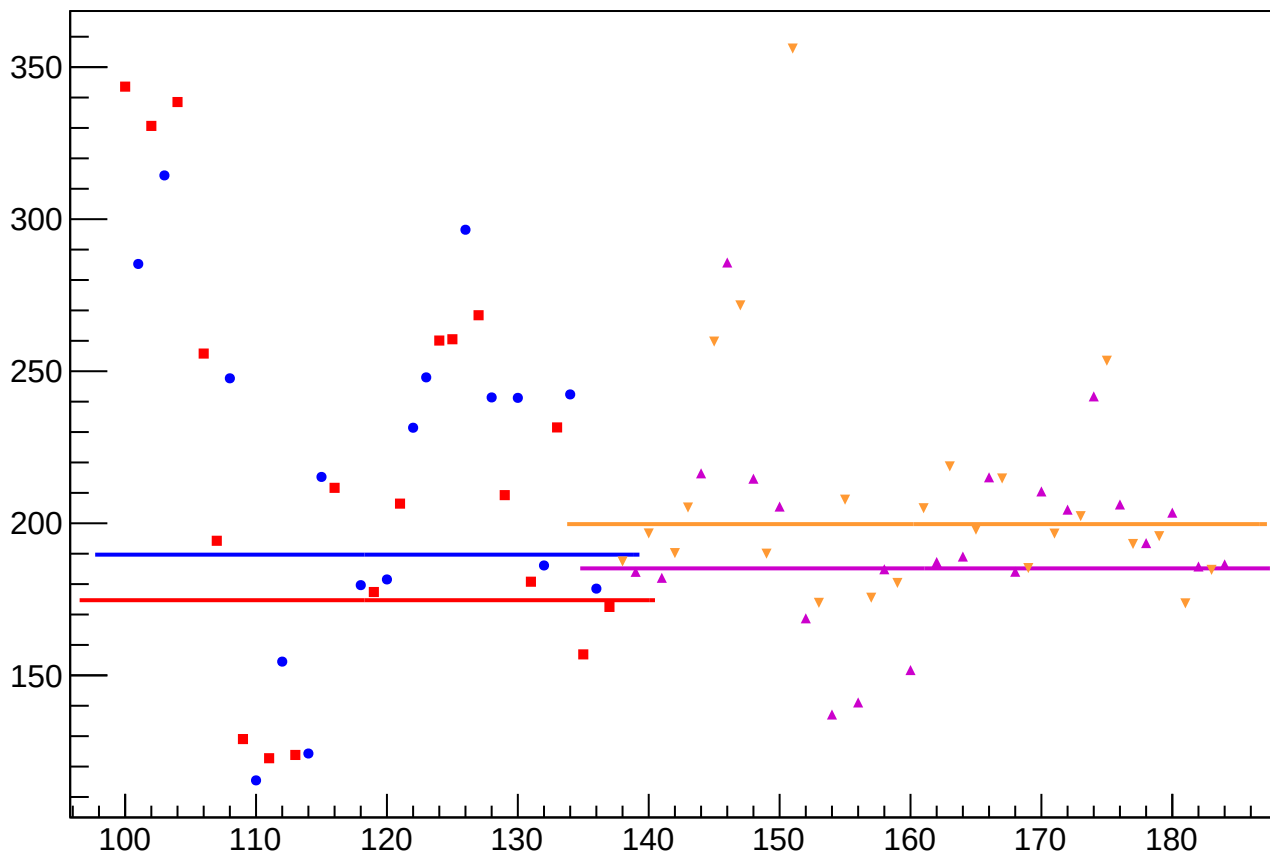
Right: -912.817 $\pm$ 51.899 χ^2/NDF : 6641.4/35

In: -670.480 $\pm$ 39.410 χ^2/NDF :15162.7/39

Out: -335.772 $\pm$ 39.571 χ^2/NDF :8360.9/42

All: -503.808 $\pm$ 27.924 χ^2/NDF : 23559.6/82

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2/NDF : 977199.2/16

Left Out: 199.729 $\pm$ 0.034 χ^2/NDF : 724753.3/23

Right Out: 174.707 $\pm$ 0.050 χ^2/NDF : 1291115.5/18

Left In: 185.171 $\pm$ 0.032 χ^2/NDF : 882752.2/22

Left: 192.114 $\pm$ 0.023 χ^2/NDF : 1703859.4/46

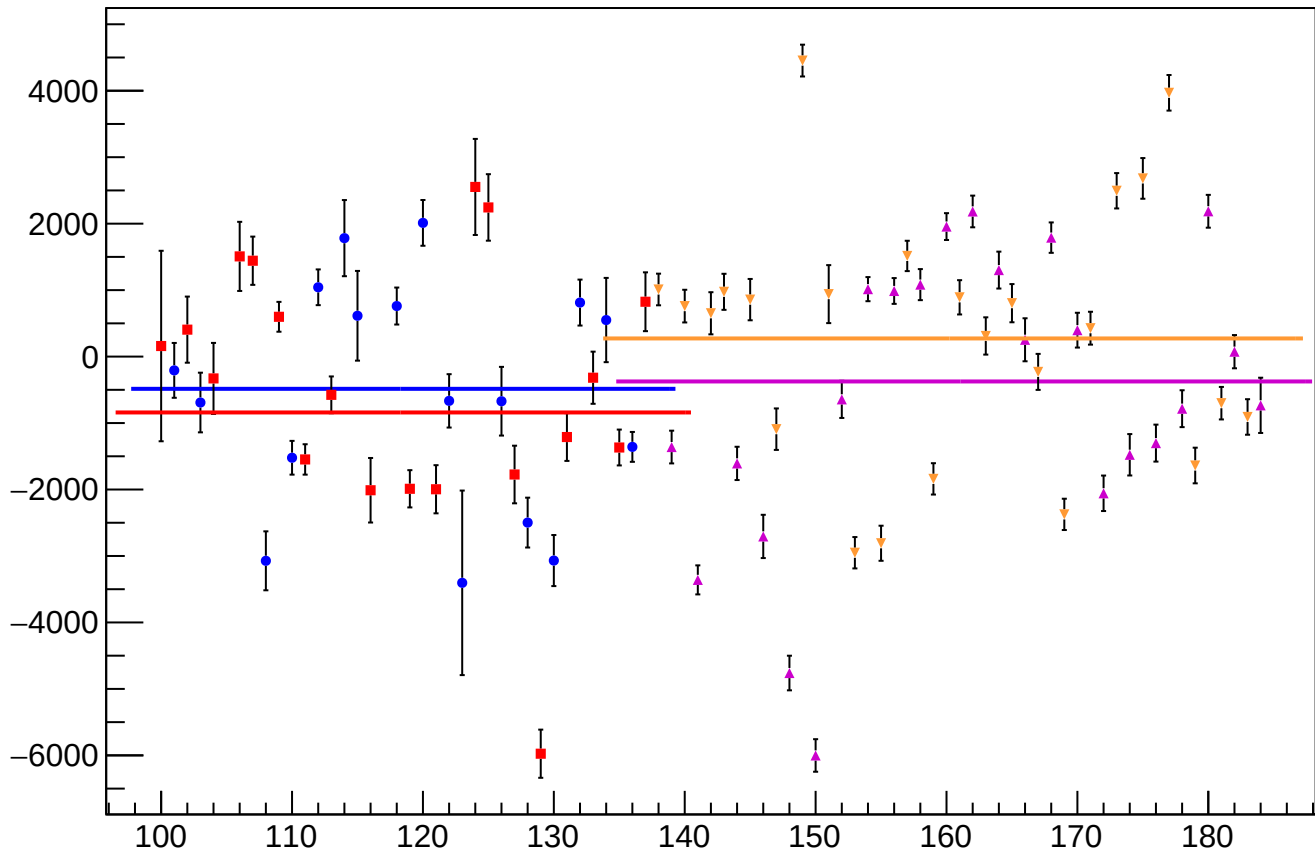
Right: 181.455 $\pm$ 0.037 χ^2/NDF : 2309563.7/35

In: 186.344 $\pm$ 0.028 χ^2/NDF : 1865002.0/39

Out: 191.735 $\pm$ 0.028 χ^2/NDF : 2189723.0/42

All: 189.028 $\pm$ 0.020 χ^2/NDF : 4073363.1/82

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -485.036+/-88.788 χ^2/NDF : 285.3/16

Left Out: 272.921+/-54.087 χ^2/NDF :1332.5/23

Right Out: -840.594+/-82.233 χ^2/NDF : 438.2/18

Left In: -374.122+/-52.049 χ^2/NDF :1801.0/22

Left: -63.018+/-37.504 χ^2/NDF : 3207.9/46

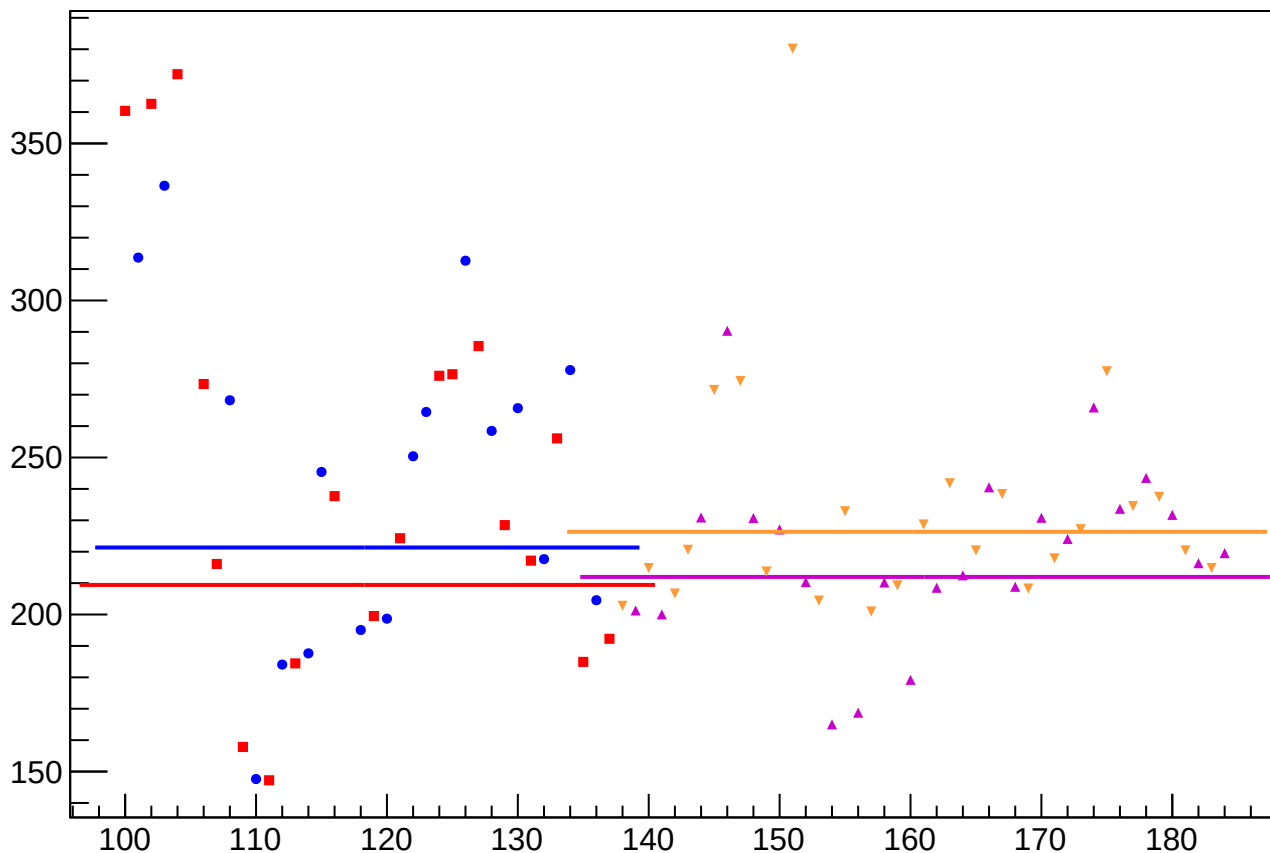
Right: -676.425+/-60.332 χ^2/NDF : 732.1/35

In: -402.489+/-44.902 χ^2/NDF :2087.5/39

Out: -63.329+/-45.188 χ^2/NDF :1898.7/42

All: -233.985+/-31.851 χ^2/NDF : 4014.6/82

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339+/-0.063 χ^2/NDF : 645507.4/16

Left Out: 226.344+/-0.038 χ^2/NDF : 521166.2/23

Right Out: 209.428+/-0.058 χ^2/NDF : 879292.0/18

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.881+/-0.027 χ^2/NDF : 1178847.7/46

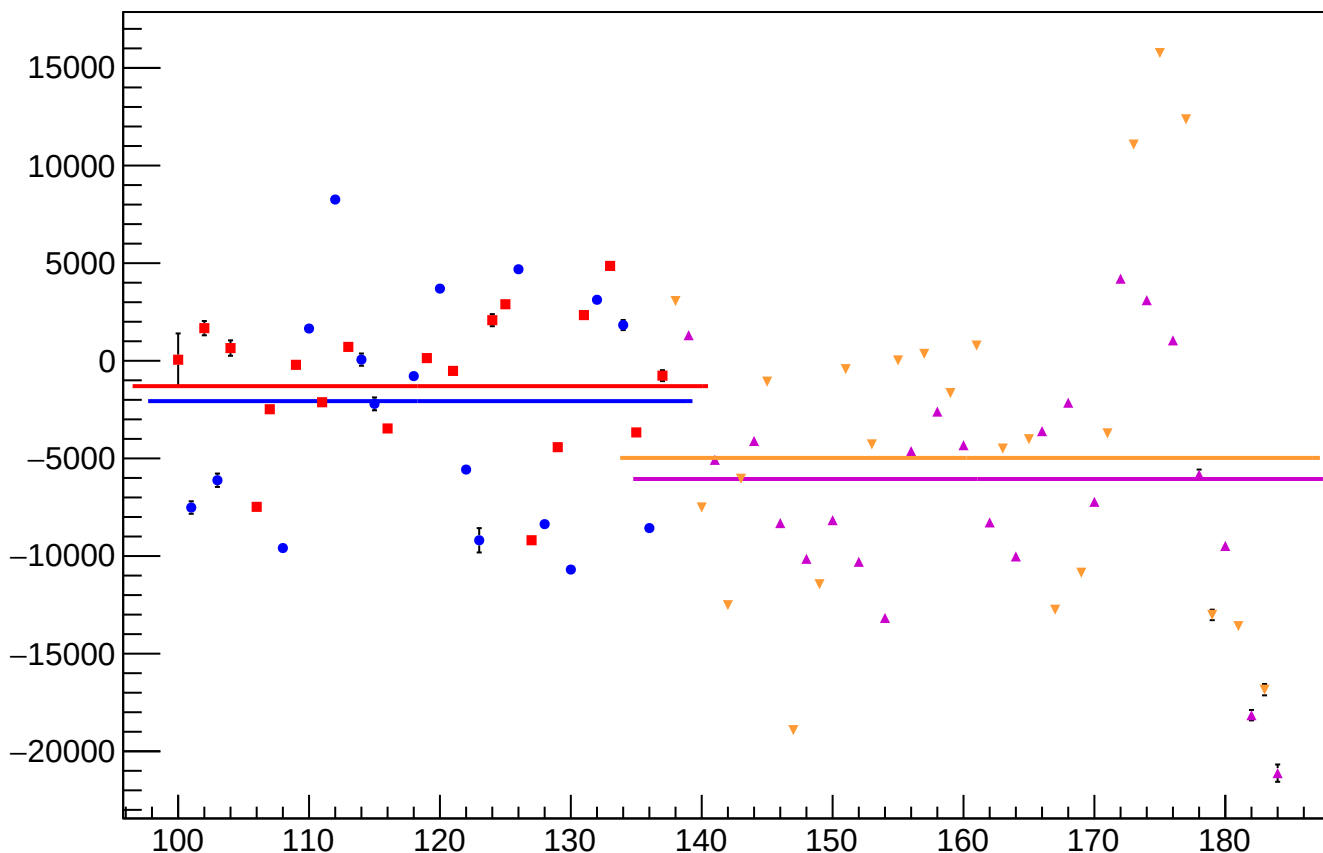
Right: 214.927+/-0.043 χ^2/NDF : 1544173.7/35

In: 214.366+/-0.032 χ^2/NDF : 1246424.7/39

Out: 221.236+/-0.032 χ^2/NDF : 1459535.5/42

All: 217.779+/-0.023 χ^2/NDF : 2729216.8/82

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 ± 47.407 $\chi^2/\text{NDF}: 16535.7/16$

Left Out: -4974.129 ± 33.934 $\chi^2/\text{NDF}: 53452.9/23$

Right Out: -1298.632 ± 44.980 $\chi^2/\text{NDF}: 5909.5/18$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5497.187 ± 24.362 $\chi^2/\text{NDF}: 71533.5/46$

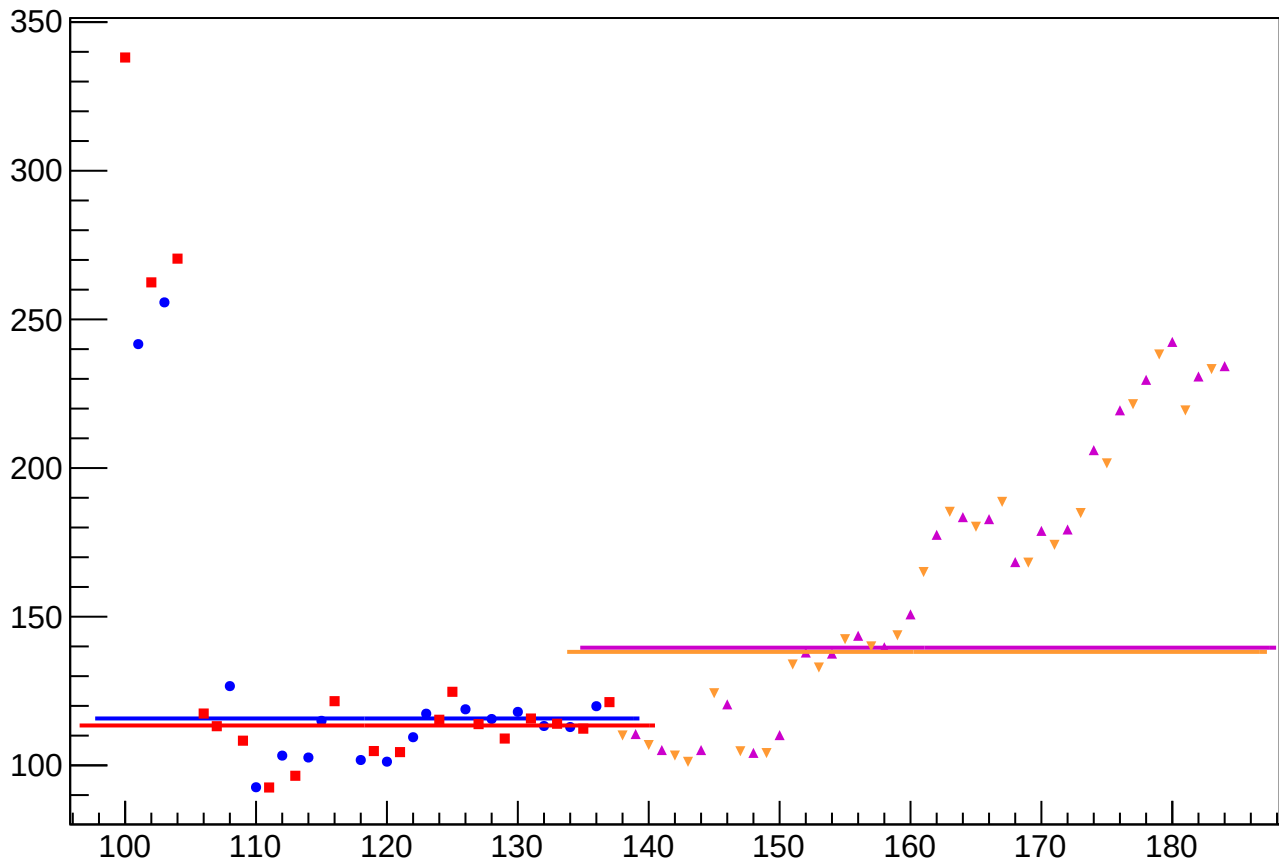
Right: -1661.949 ± 32.630 $\chi^2/\text{NDF}: 22582.8/35$

In: -4646.764 ± 28.156 $\chi^2/\text{NDF}: 38706.4/39$

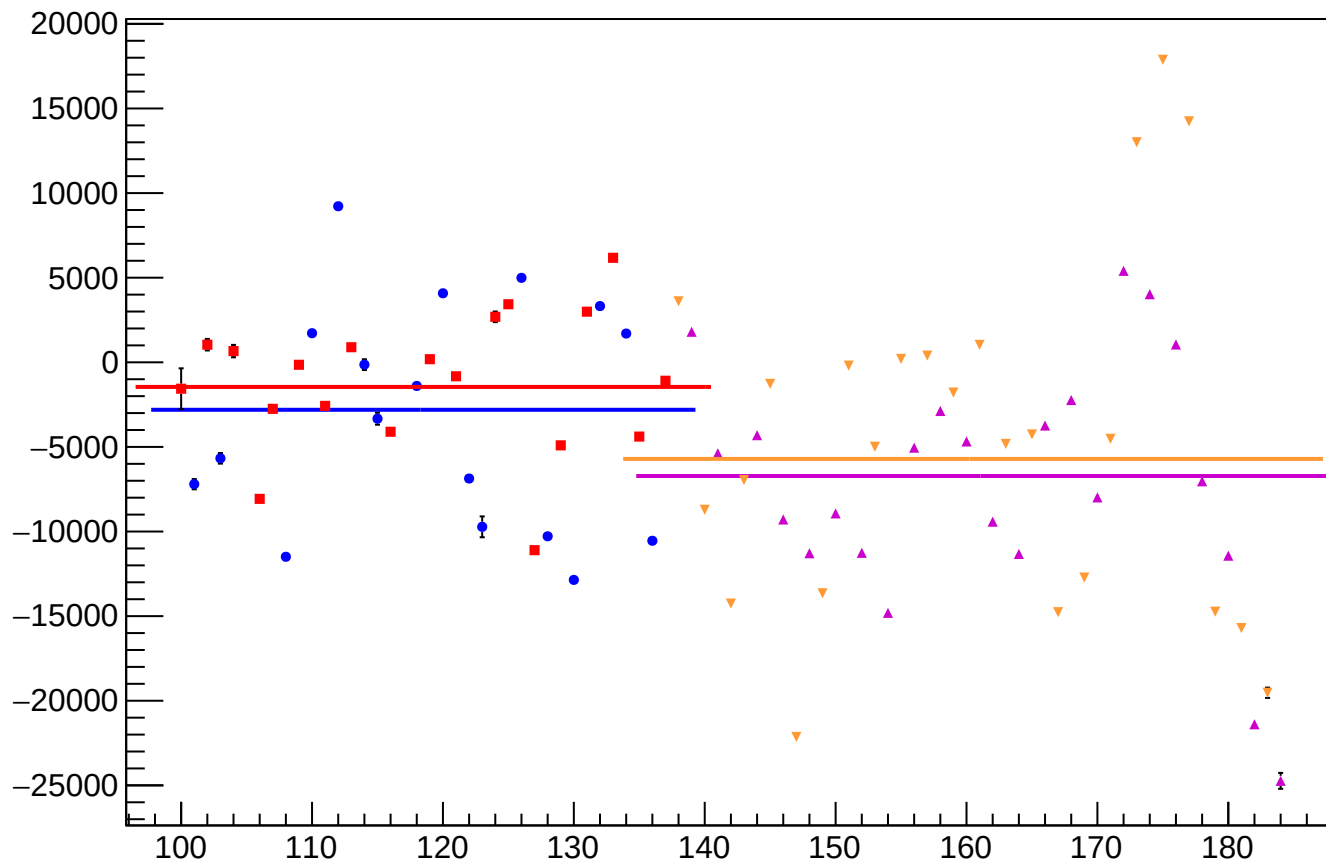
Out: -3640.995 ± 27.090 $\chi^2/\text{NDF}: 63617.6/42$

All: -4124.463 ± 19.521 $\chi^2/\text{NDF}: 102986.6/81$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2805.410+/-48.358 χ^2/NDF : 21259.6/16

Left Out: -5708.409+/-36.120 χ^2/NDF : 62249.2/23

Right Out: -1454.376+/-46.372 χ^2/NDF : 8020.2/18

Left In: -6718.475+/-37.276 χ^2/NDF : 20934.3/22

Left: -6197.548+/-25.940 χ^2/NDF : 83562.2/46

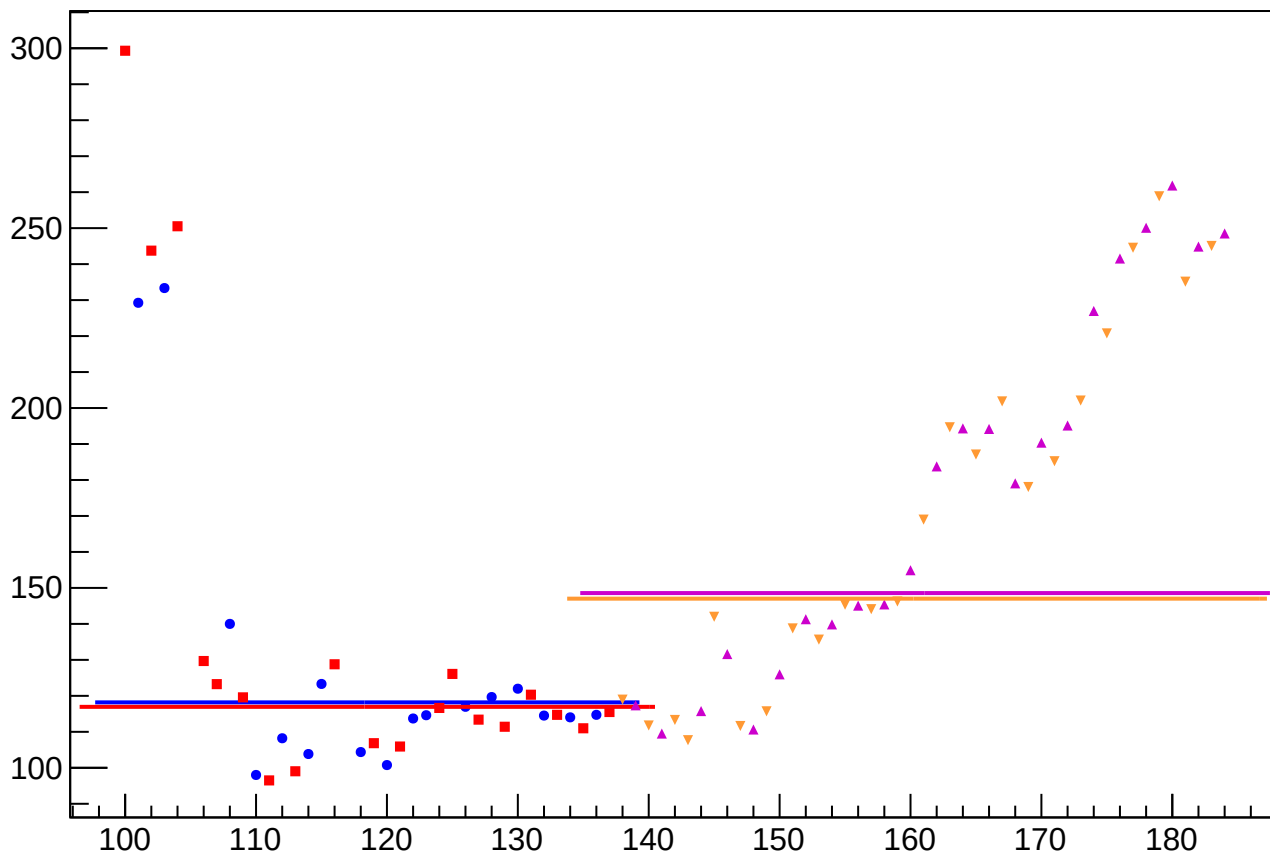
Right: -2101.578+/-33.470 χ^2/NDF : 29686.5/35

In: -5260.030+/-29.523 χ^2/NDF : 46301.2/39

Out: -4102.020+/-28.496 χ^2/NDF : 75507.2/42

All: -4660.534+/-20.503 χ^2/NDF : 122604.9/8

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.187+/-0.034 χ^2/NDF : 636345.5/16

Left Out: 147.015+/-0.026 χ^2/NDF : 2421714.2/23

Right Out: 116.944+/-0.033 χ^2/NDF : 689368.0/18

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.767+/-0.018 χ^2/NDF : 4816690.6/46

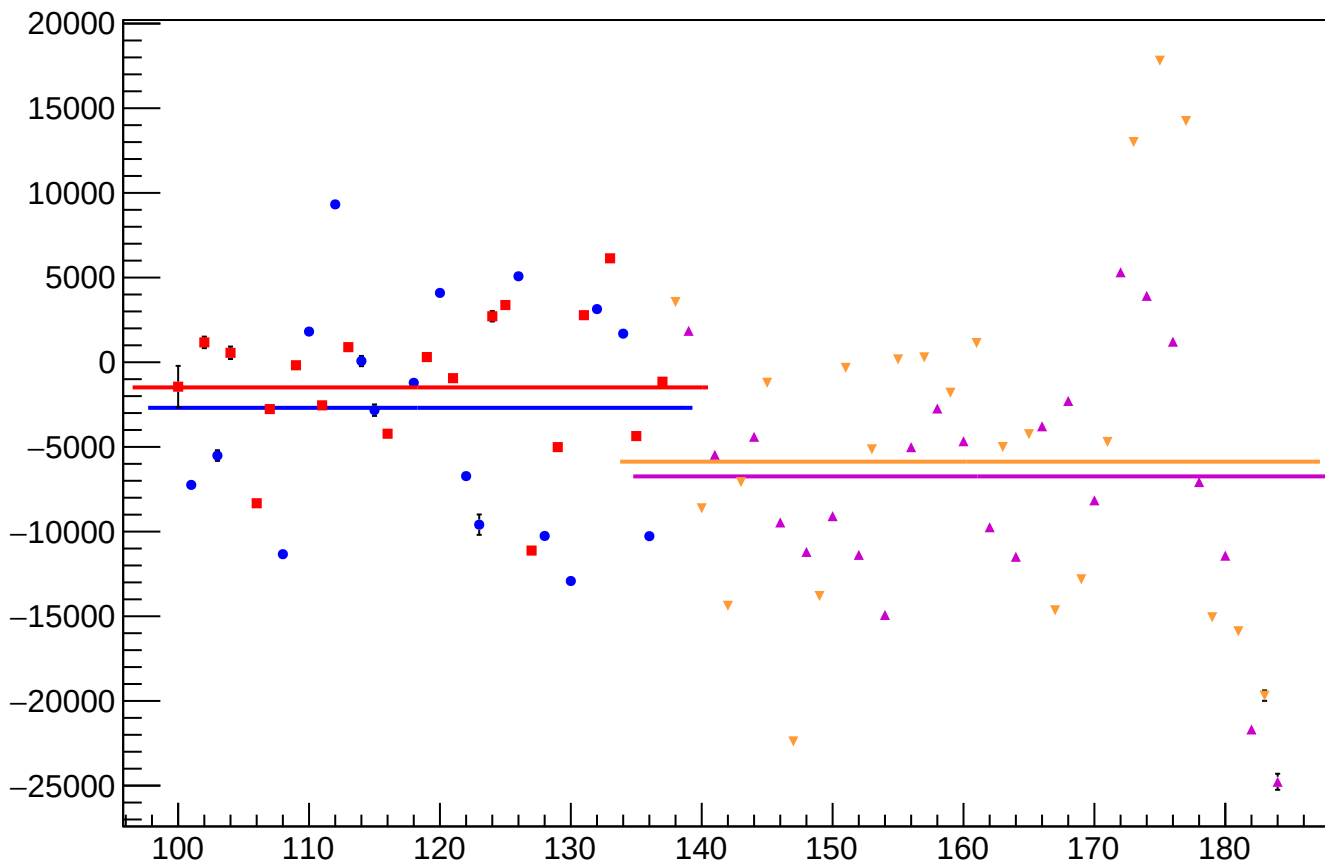
Right: 117.539+/-0.024 χ^2/NDF : 1326402.5/35

In: 137.245+/-0.021 χ^2/NDF : 3524720.9/39

Out: 135.660+/-0.020 χ^2/NDF : 3634546.7/42

All: 136.424+/-0.014 χ^2/NDF : 7162253.5/82

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2691.569 ± 46.420 $\chi^2/\text{NDF}: 22847.7/16$

Left Out: -5869.970 ± 35.311 $\chi^2/\text{NDF}: 66674.0/23$

Right Out: -1484.889 ± 44.421 $\chi^2/\text{NDF}: 8724.0/18$

Left In: -6740.666 ± 36.379 $\chi^2/\text{NDF}: 22071.8/22$

Left: -6292.351 ± 25.338 $\chi^2/\text{NDF}: 89040.7/46$

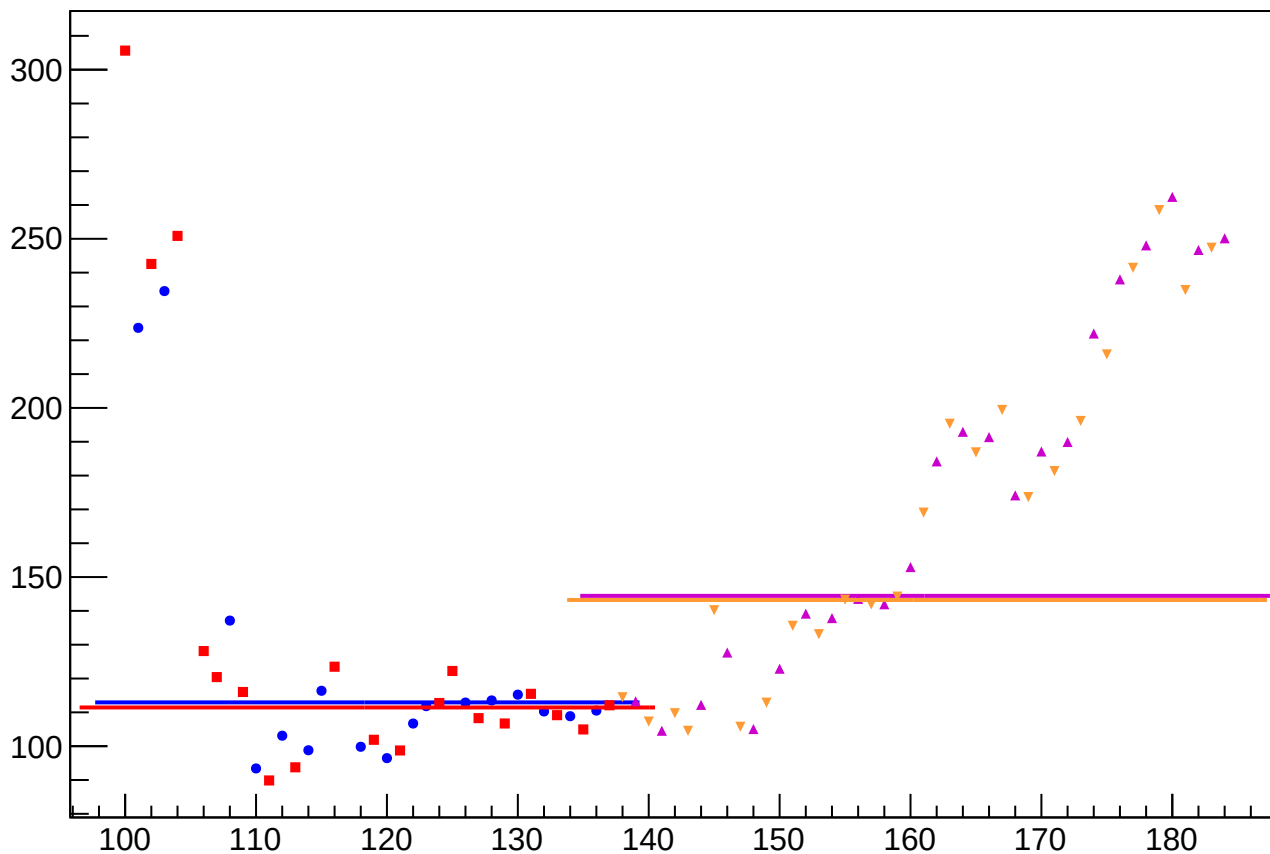
Right: -2061.688 ± 32.094 $\chi^2/\text{NDF}: 31924.4/35$

In: -5199.994 ± 28.634 $\chi^2/\text{NDF}: 49633.1/39$

Out: -4171.954 ± 27.642 $\chi^2/\text{NDF}: 81369.5/42$

All: -4667.861 ± 19.887 $\chi^2/\text{NDF}: 131669.9/8$

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.944 ± 0.033 χ^2/NDF : 680438.6/16

Left Out: 143.221 ± 0.025 χ^2/NDF : 2607360.1/23

Right Out: 111.444 ± 0.031 χ^2/NDF : 764132.1/18

Left In: 144.440 ± 0.026 χ^2/NDF : 2586926.1/22

Left: 143.812 ± 0.018 χ^2/NDF : 5195441.8/46

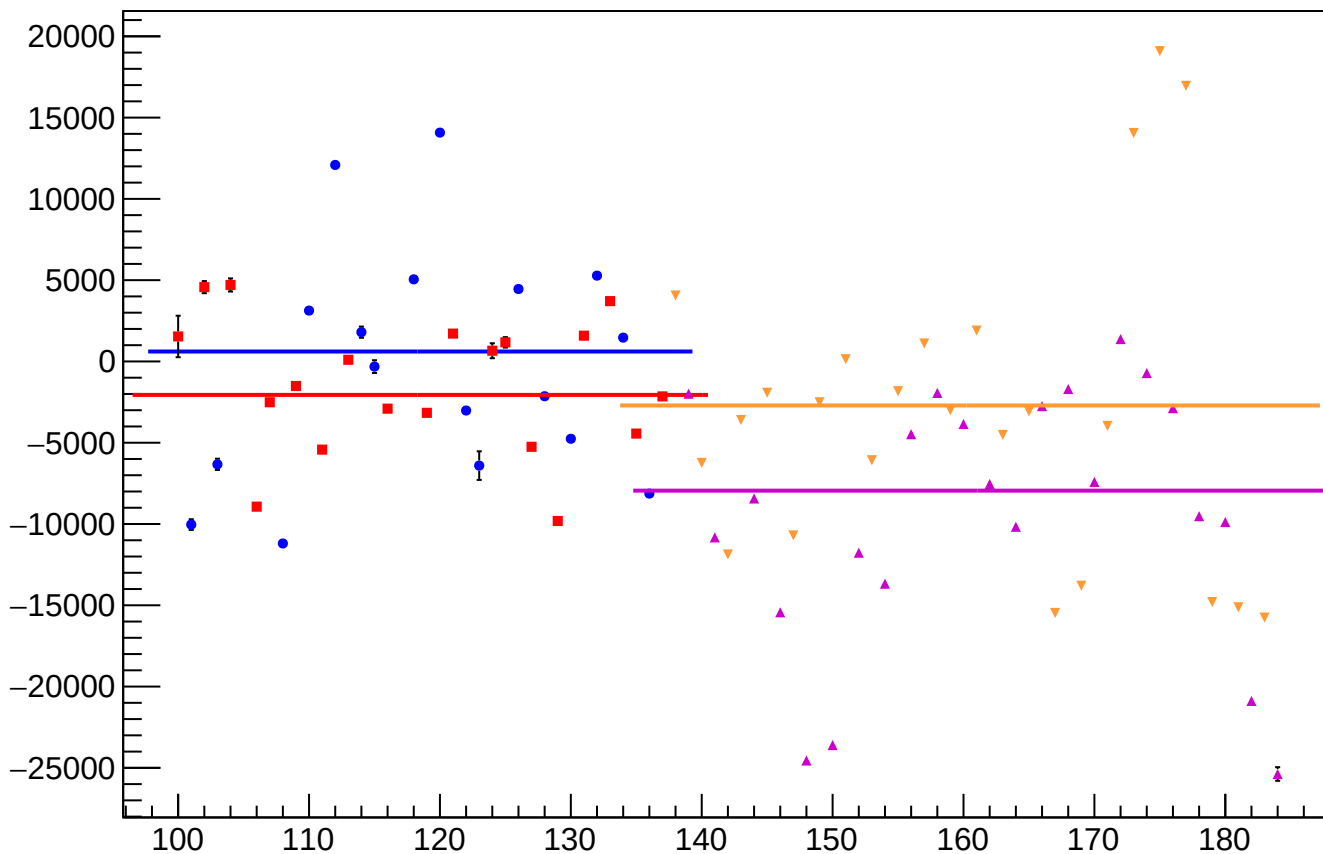
Right: 112.161 ± 0.023 χ^2/NDF : 1445660.4/35

In: 132.456 ± 0.020 χ^2/NDF : 3837761.6/39

Out: 130.916 ± 0.020 χ^2/NDF : 3998659.2/42

All: 131.659 ± 0.014 χ^2/NDF : 7839413.0/82

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 610.939 ± 56.154 $\chi^2/\text{NDF}: 18248.2/16$

Left Out: -2706.899 ± 39.751 $\chi^2/\text{NDF}: 45034.6/23$

Right Out: -2057.548 ± 53.904 $\chi^2/\text{NDF}: 4649.5/18$

Left In: -7947.160 ± 41.726 $\chi^2/\text{NDF}: 23874.5/22$

Left: -5200.122 ± 28.781 $\chi^2/\text{NDF}: 77177.3/46$

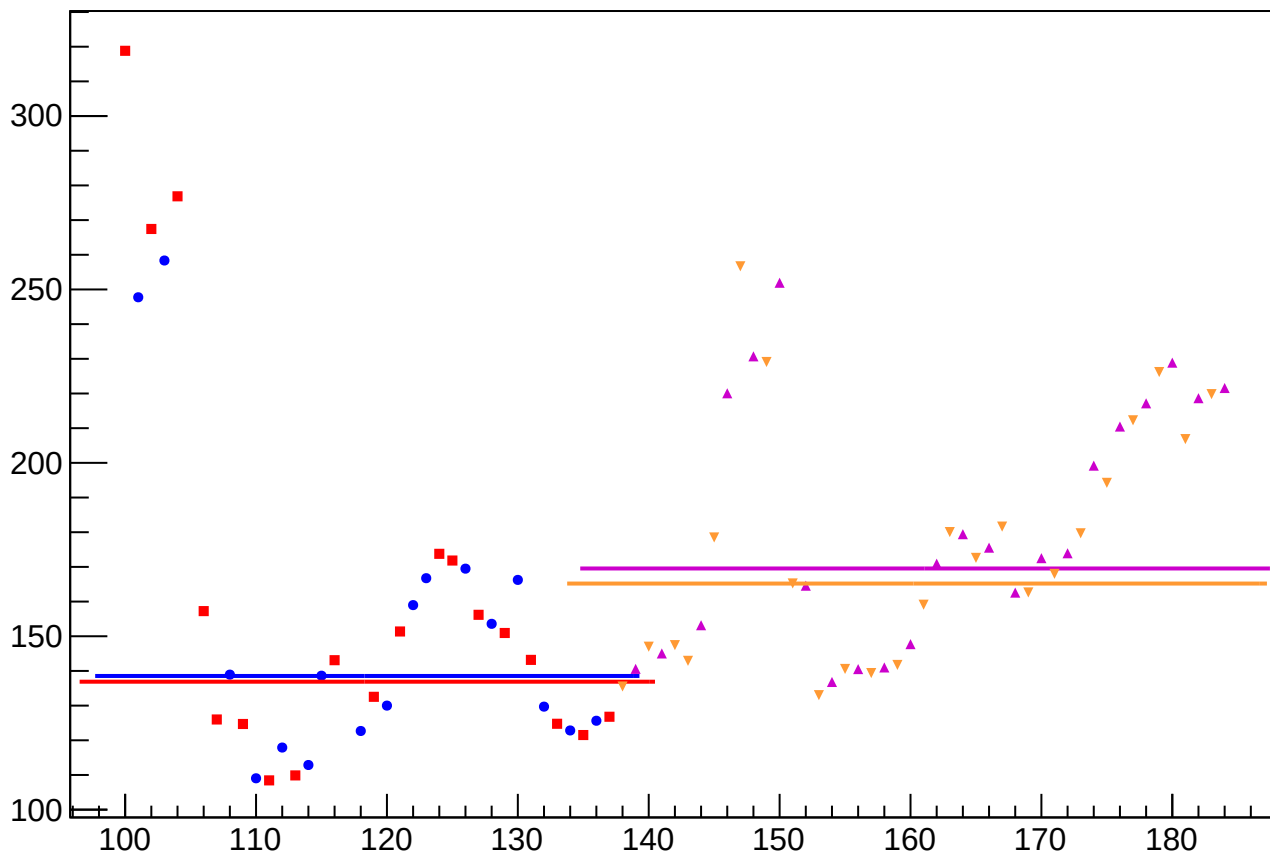
Right: -777.832 ± 38.887 $\chi^2/\text{NDF}: 24073.0/35$

In: -4902.807 ± 33.492 $\chi^2/\text{NDF}: 57087.3/39$

Out: -2478.159 ± 31.993 $\chi^2/\text{NDF}: 49778.2/42$

All: -3635.011 ± 23.134 $\chi^2/\text{NDF}: 109605.9/8$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.549+/-0.040 χ^2/NDF : 667663.4/16

Left Out: 165.196+/-0.028 χ^2/NDF :1115429.8/23

Right Out: 136.895+/-0.038 χ^2/NDF : 751443.4/18

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.263+/-0.020 χ^2/NDF : 2286046.0/46

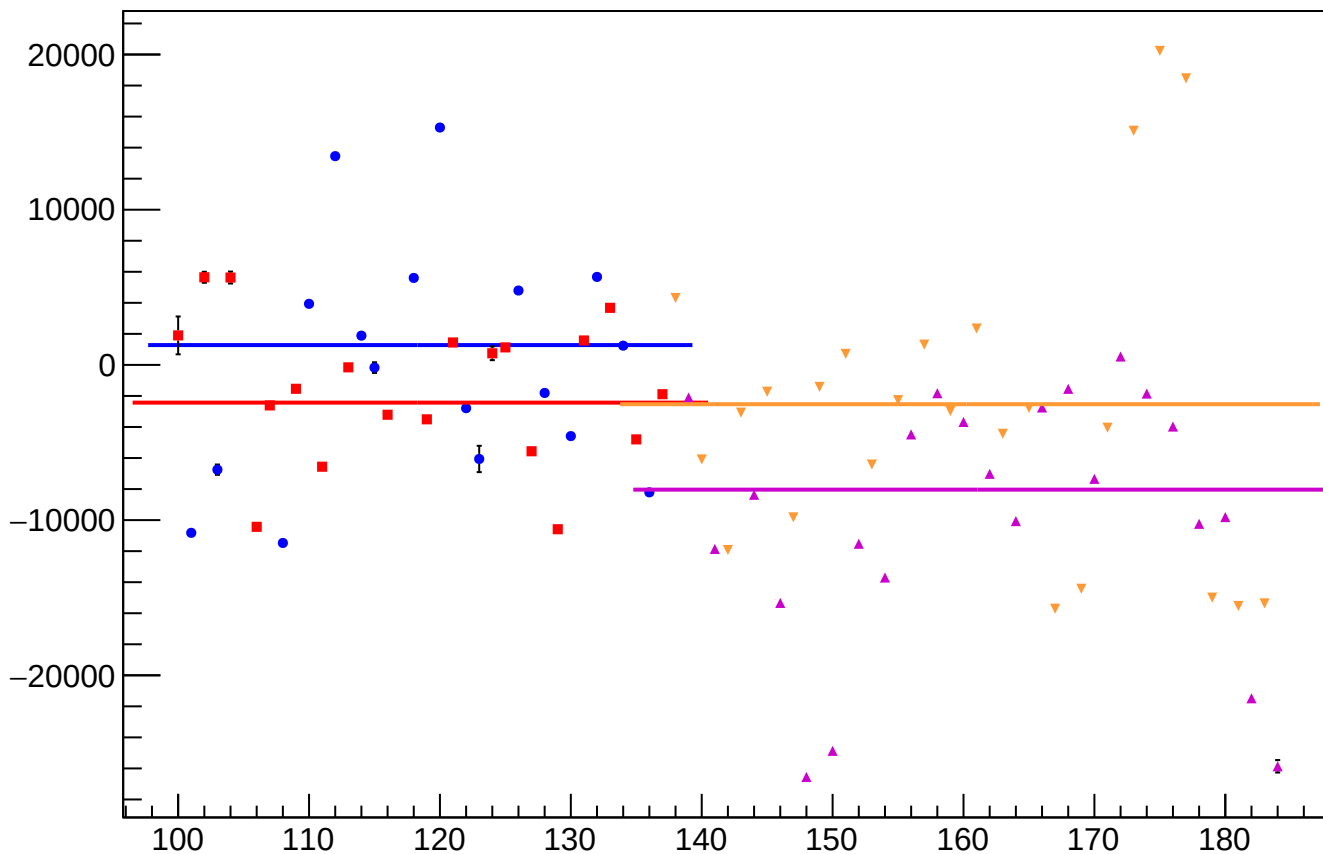
Right: 137.688+/-0.027 χ^2/NDF : 1420010.0/35

In: 158.517+/-0.024 χ^2/NDF :2219414.9/39

Out: 155.226+/-0.023 χ^2/NDF :2223962.6/42

All: 156.796+/-0.016 χ^2/NDF : 4453470.8/82

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1277.751+/-46.646 χ^2/NDF : 30549.2/16

Left Out: -2532.126+/-35.995 χ^2/NDF : 55319.1/23

Right Out: -2430.297+/-44.264 χ^2/NDF : 7696.9/18

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5140.890+/-26.108 χ^2/NDF : 95664.4/46

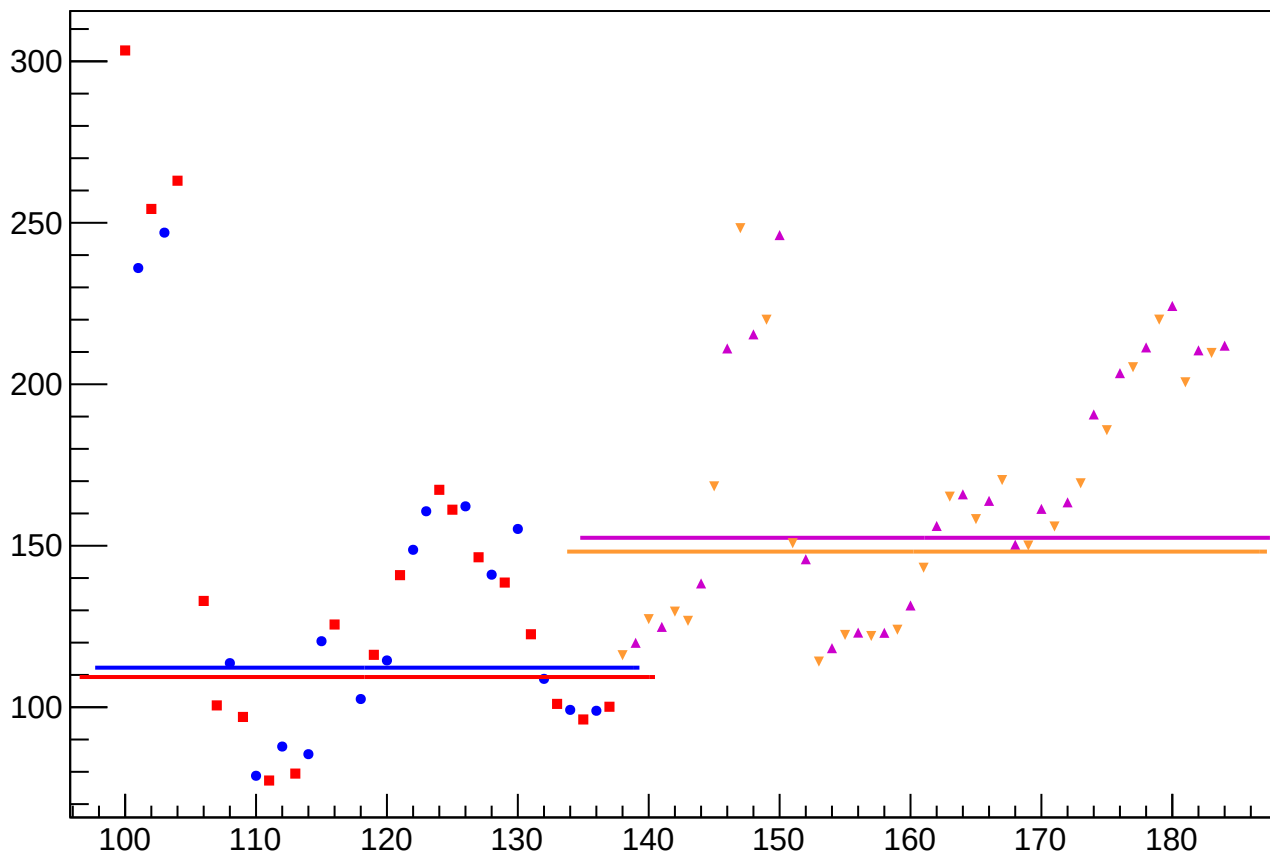
Right: -673.335+/-32.109 χ^2/NDF : 41571.1/35

In: -4330.006+/-29.426 χ^2/NDF : 83817.2/39

Out: -2491.593+/-27.927 χ^2/NDF : 63019.2/42

All: -3362.779+/-20.257 χ^2/NDF : 148889.9/8

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.247 $\pm$ 0.033 χ^2/NDF : 1123602.1/16

Left Out: 148.189 $\pm$ 0.025 χ^2/NDF : 1643052.4/23

Right Out: 109.351 $\pm$ 0.031 χ^2/NDF : 1263029.6/18

Left In: 152.463 $\pm$ 0.027 χ^2/NDF : 1691517.7/22

Left: 150.215 $\pm$ 0.018 χ^2/NDF : 3347935.0/46

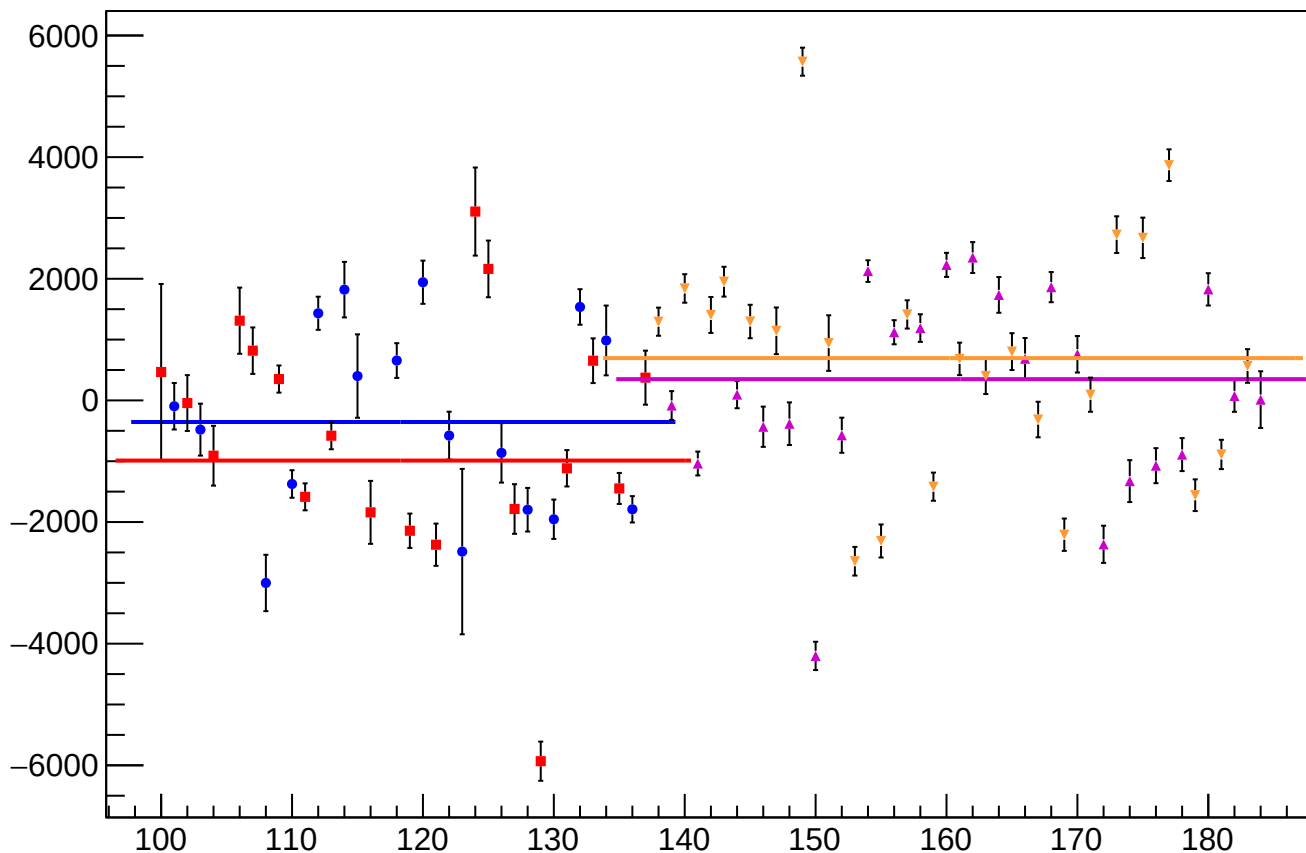
Right: 110.723 $\pm$ 0.023 χ^2/NDF : 2390689.7/35

In: 136.459 $\pm$ 0.021 χ^2/NDF : 3710132.3/39

Out: 132.730 $\pm$ 0.020 χ^2/NDF : 3832919.9/42

All: 134.497 $\pm$ 0.014 χ^2/NDF : 7559954.1/82

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -354.938 $\pm$ 84.016 χ^2/NDF : 310.6/16

Left Out: 695.579 $\pm$ 54.890 χ^2/NDF :1417.7/23

Right Out: -989.192 $\pm$ 77.653 χ^2/NDF : 477.2/18

Left In: 349.623 $\pm$ 53.094 χ^2/NDF :981.0/22

Left: 516.848 $\pm$ 38.162 χ^2/NDF : 2419.2/46

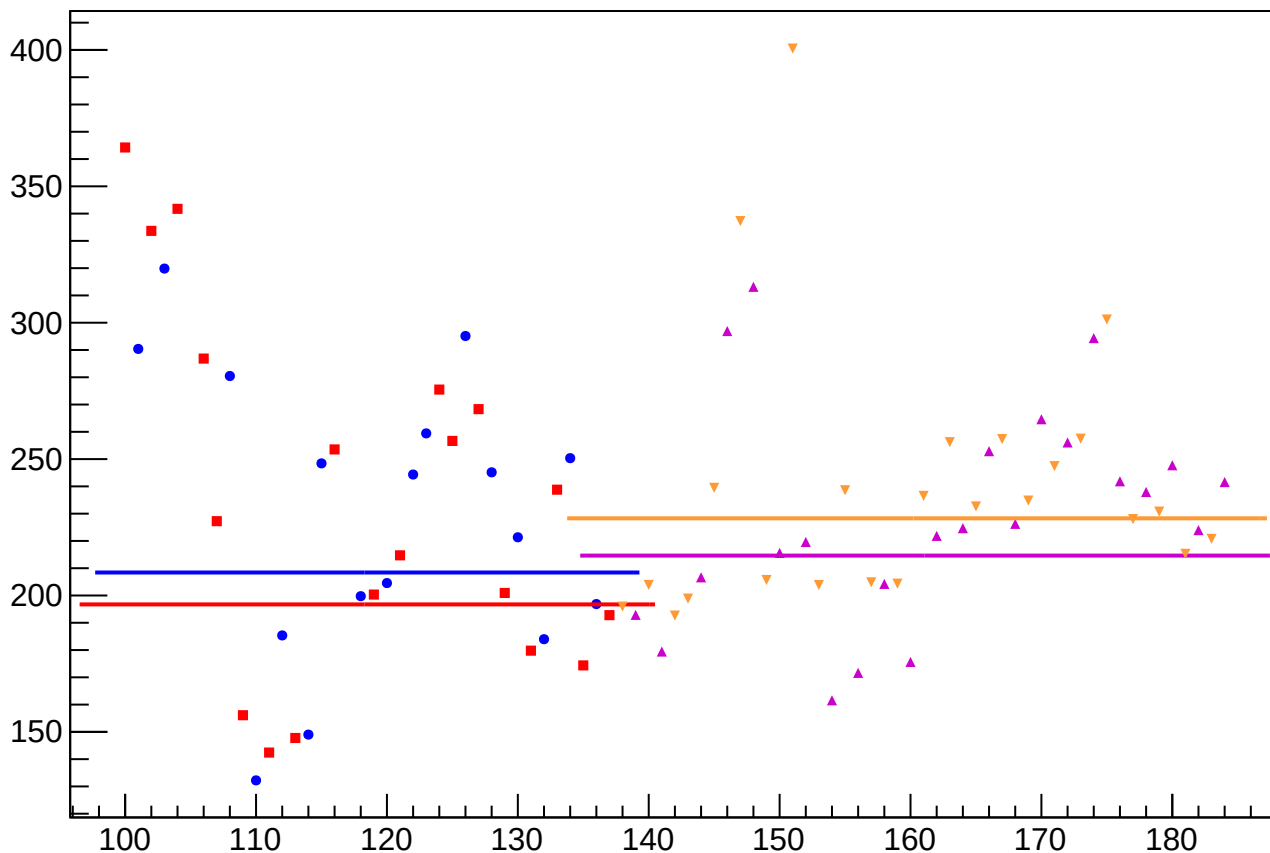
Right: -696.988 $\pm$ 57.026 χ^2/NDF : 818.5/35

In: 148.548 $\pm$ 44.883 χ^2/NDF :1341.8/39

Out: 134.245 $\pm$ 44.823 χ^2/NDF :2208.8/42

All: 141.387 $\pm$ 31.716 χ^2/NDF : 3550.6/82

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.429 $\pm$ 0.059 χ^2 /NDF: 696957.4/16

Left Out: 228.290 $\pm$ 0.039 χ^2 /NDF: 825478.1/23

Right Out: 196.731 $\pm$ 0.055 χ^2 /NDF: 925461.3/18

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

Left: 221.231 $\pm$ 0.027 χ^2 /NDF: 1915182.5/46

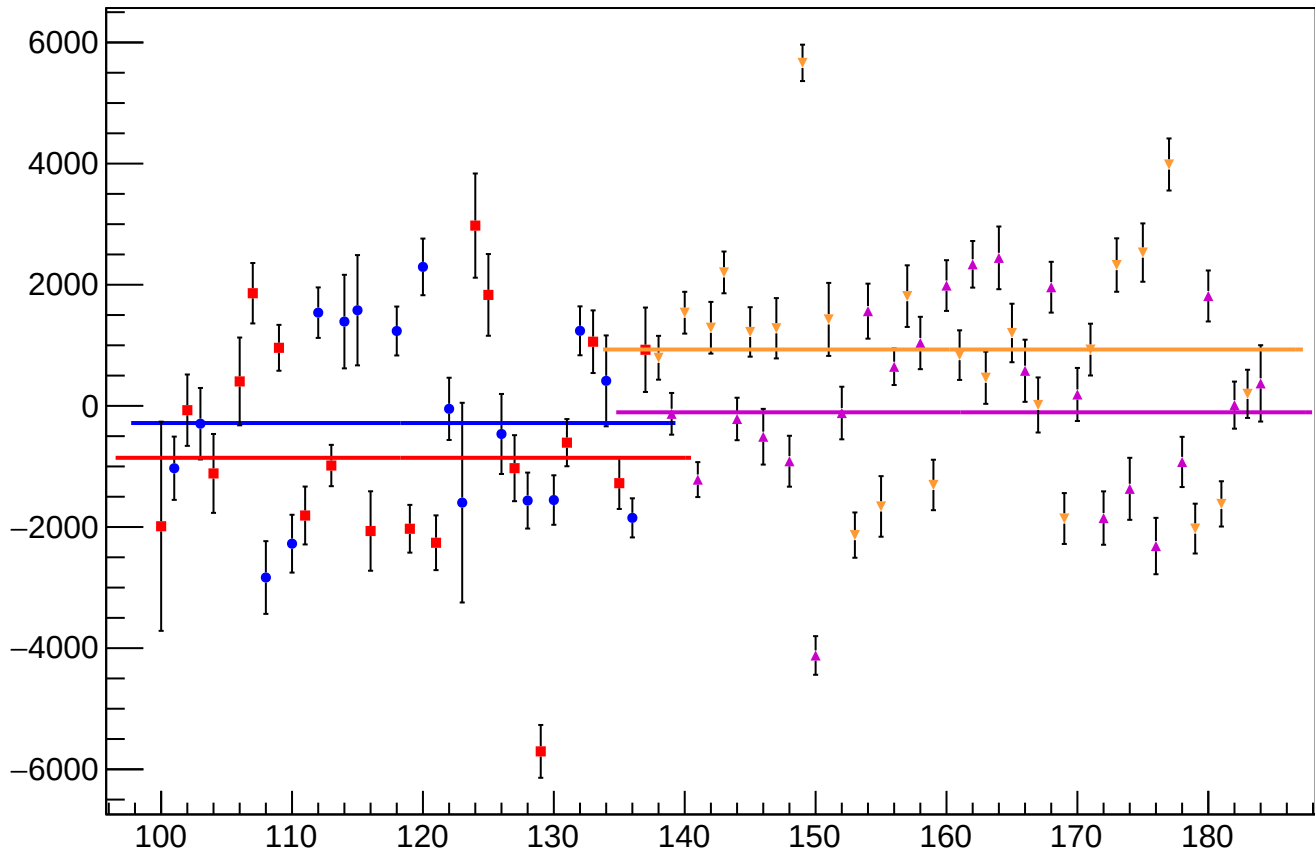
Right: 202.120 $\pm$ 0.040 χ^2 /NDF: 1643330.9/35

In: 212.858 $\pm$ 0.032 χ^2 /NDF: 1730418.5/39

Out: 217.775 $\pm$ 0.032 χ^2 /NDF: 1971223.8/42

All: 215.320 $\pm$ 0.022 χ^2 /NDF: 3713659.7/82

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -283.146±/121.564 χ^2/NDF : 166.9/16

Left Out: 930.805±/84.387 χ^2/NDF : 615.9/23

Right Out: -857.162±/115.341 χ^2/NDF : 265.0/18

Left In: -106.116±/84.393 χ^2/NDF : 390.3/22

Left: 412.382±/59.673 χ^2/NDF : 1081.7/46

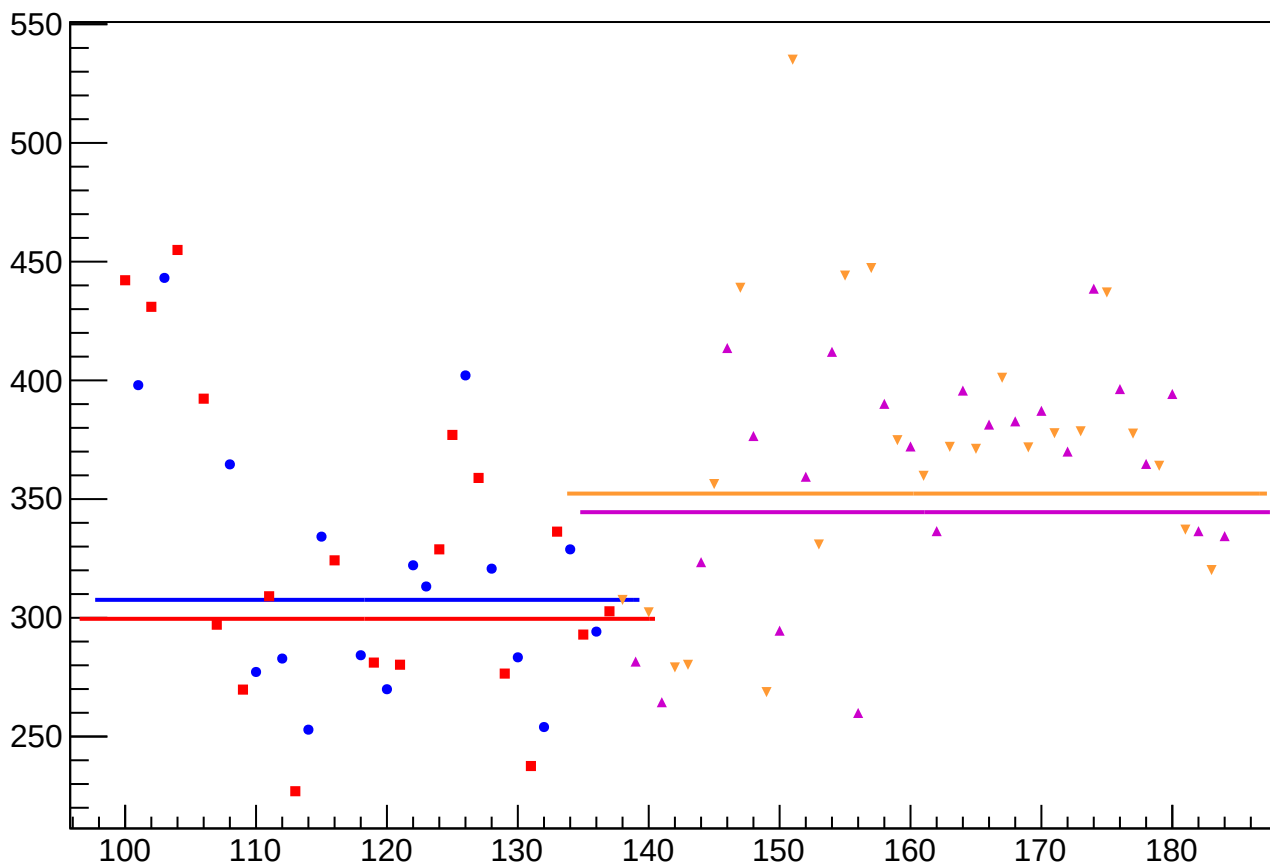
Right: -585.220±/83.672 χ^2/NDF : 443.7/35

In: -163.689±/69.325 χ^2/NDF : 558.6/39

Out: 307.425±/68.105 χ^2/NDF : 1037.5/42

All: 76.048±/48.583 χ^2/NDF : 1619.6/82

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.566 ± 0.086 $\chi^2/\text{NDF}: 321522.0/16$

Left Out: 352.322 ± 0.060 $\chi^2/\text{NDF}: 904180.9/23$

Right Out: 299.577 ± 0.082 $\chi^2/\text{NDF}: 493549.3/18$

Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.407 ± 0.042 $\chi^2/\text{NDF}: 1681678.3/46$

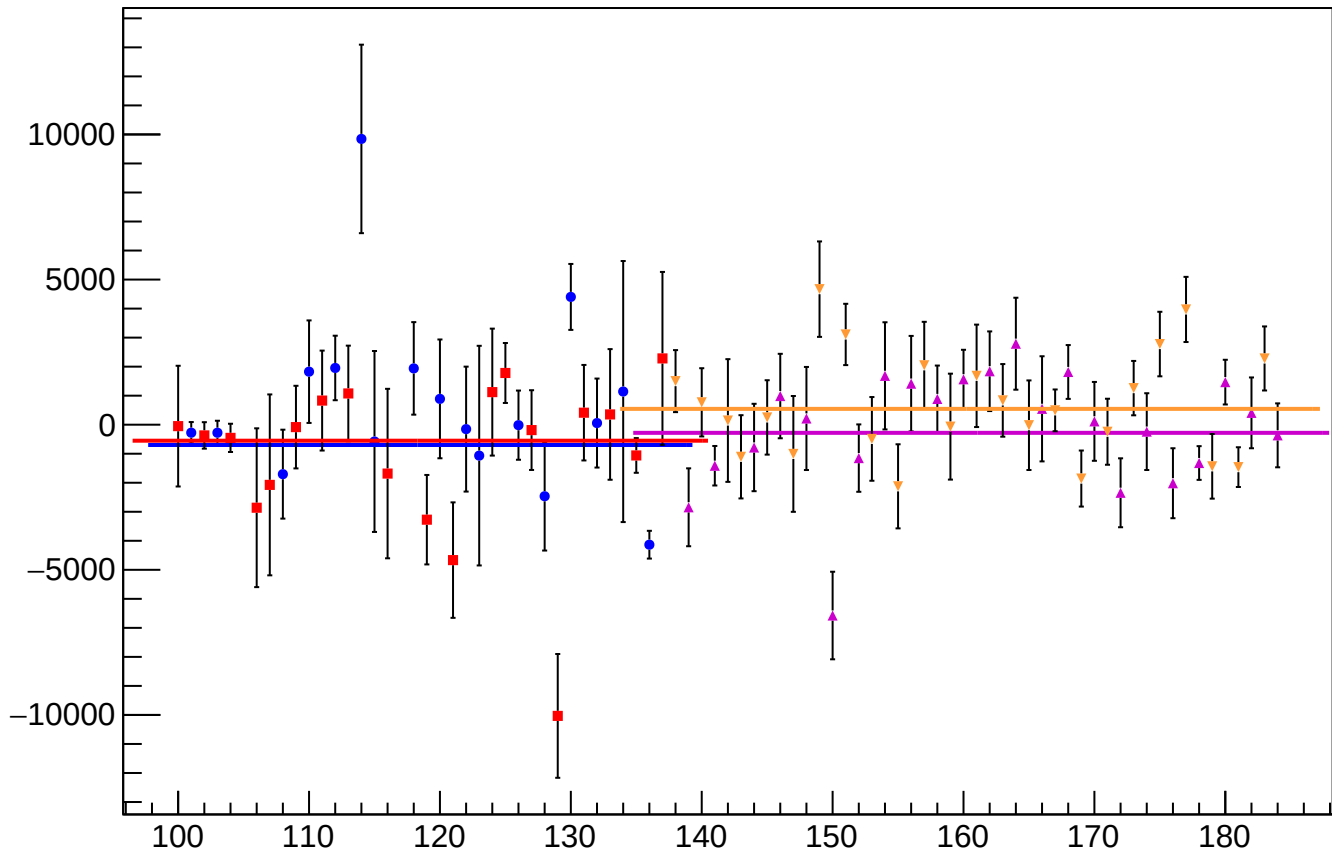
Right: 303.362 ± 0.059 $\chi^2/\text{NDF}: 819617.4/35$

In: 332.482 ± 0.049 $\chi^2/\text{NDF}: 1214921.7/39$

Out: 333.932 ± 0.048 $\chi^2/\text{NDF}: 1670152.2/42$

All: 333.220 ± 0.034 $\chi^2/\text{NDF}: 2885519.2/82$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -699.406 $\pm$ 210.504 χ^2/NDF : 97.9/16

Left Out: 545.211 $\pm$ 236.989 χ^2/NDF : 55.5/23

Right Out: -551.457 $\pm$ 243.420 χ^2/NDF : 38.1/18

Left In: -280.692 $\pm$ 232.048 χ^2/NDF : 57.2/22

Left: 123.559 $\pm$ 165.802 χ^2/NDF : 118.9/46

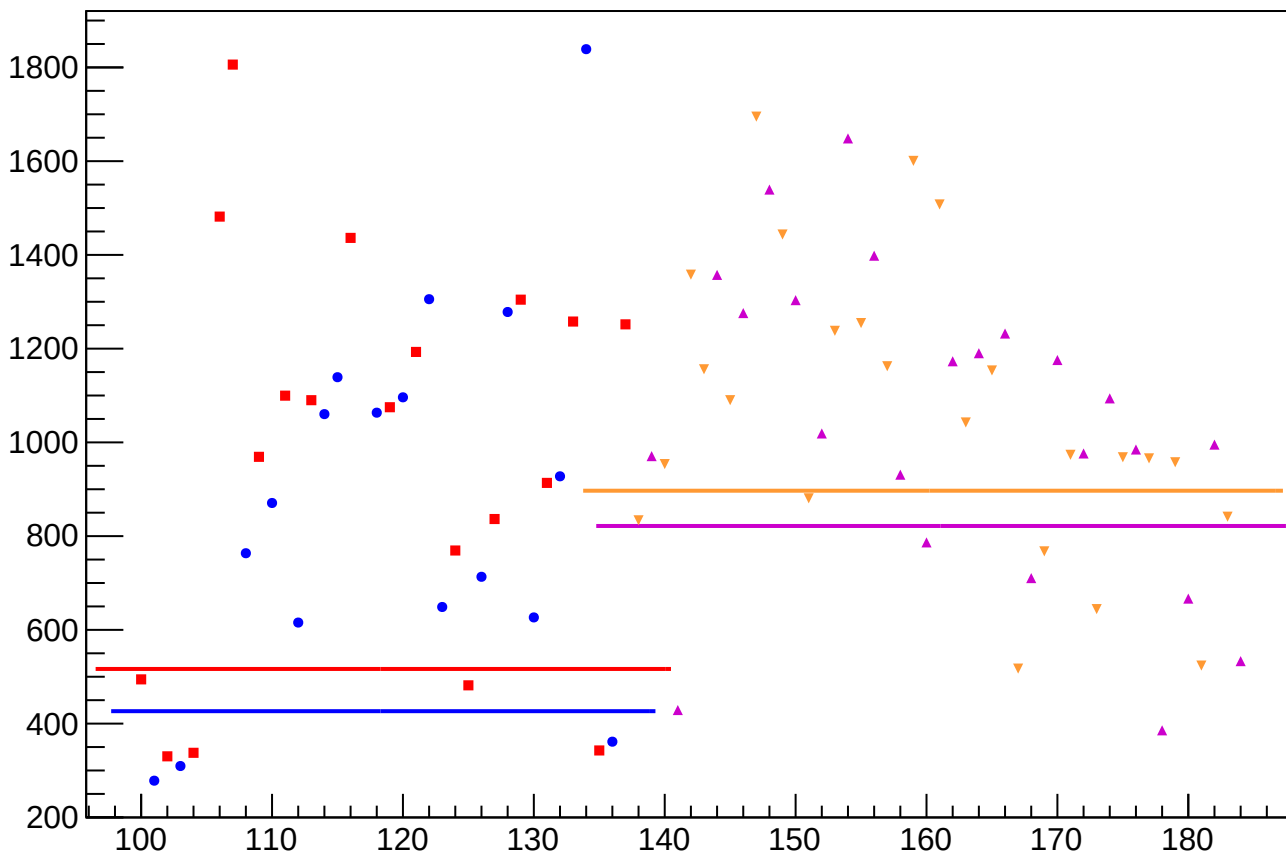
Right: -636.104 $\pm$ 159.224 χ^2/NDF : 136.3/35

In: -510.384 $\pm$ 155.910 χ^2/NDF : 156.9/39

Out: 11.555 $\pm$ 169.805 χ^2/NDF : 104.1/42

All: -271.640 $\pm$ 114.844 χ^2/NDF : 266.1/82

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 426.522+/-0.149 χ^2/NDF : 2863074.2/16

Left Out: 896.909+/-0.168 χ^2/NDF : 3043560.0/23

Right Out: 516.598+/-0.172 χ^2/NDF : 3598022.9/18

Left In: 821.657+/-0.164 χ^2/NDF : 4443094.2/22

Left: 858.491+/-0.117 χ^2/NDF : 7589605.2/46

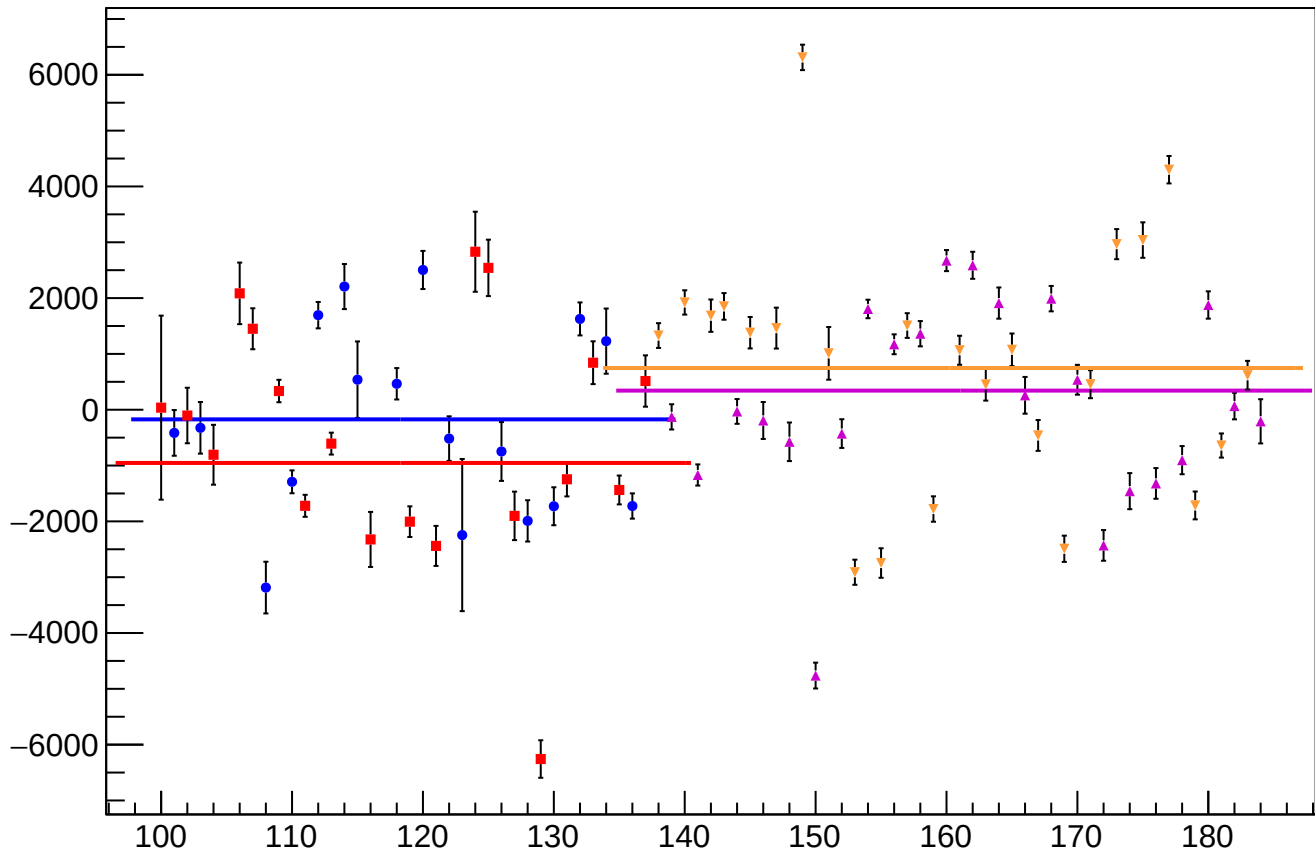
Right: 465.062+/-0.113 χ^2/NDF : 6617785.8/35

In: 604.899+/-0.110 χ^2/NDF : 10487415.9/39

Out: 711.844+/-0.120 χ^2/NDF : 9147907.8/42

All: 653.818+/-0.081 χ^2/NDF : 20065760.7/82

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -172.521 ± 82.544 χ^2/NDF : 376.5/16

Left Out: 747.285 ± 52.209 χ^2/NDF : 1928.7/23

Right Out: -953.457 ± 75.104 χ^2/NDF : 541.2/18

Left In: 342.465 ± 50.044 χ^2/NDF : 1254.9/22

Left: 536.310 ± 36.128 χ^2/NDF : 3215.0/46

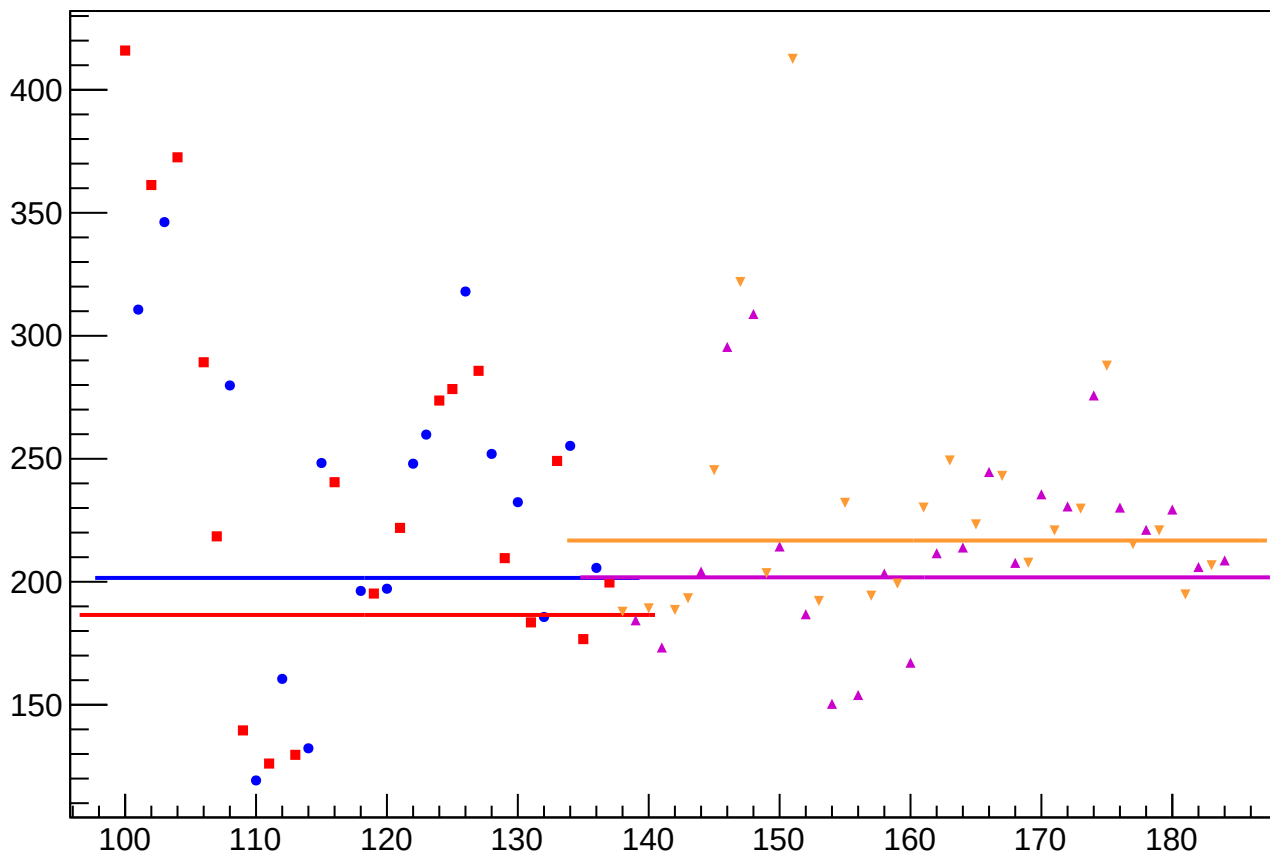
Right: -599.765 ± 55.551 χ^2/NDF : 966.7/35

In: 204.050 ± 42.794 χ^2/NDF : 1659.9/39

Out: 193.181 ± 42.869 χ^2/NDF : 2815.6/42

All: 198.625 ± 30.286 χ^2/NDF : 4475.6/82

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.572 $\pm$ 0.058 χ^2/NDF : 1052330.1/16

Left Out: 216.774 $\pm$ 0.037 χ^2/NDF :885966.3/23

Right Out: 186.520 $\pm$ 0.053 χ^2/NDF : 1388400.1/18

Left In: 201.805 $\pm$ 0.035 χ^2/NDF :1087243.4/22

Left: 208.973 $\pm$ 0.026 χ^2/NDF : 2058888.2/46

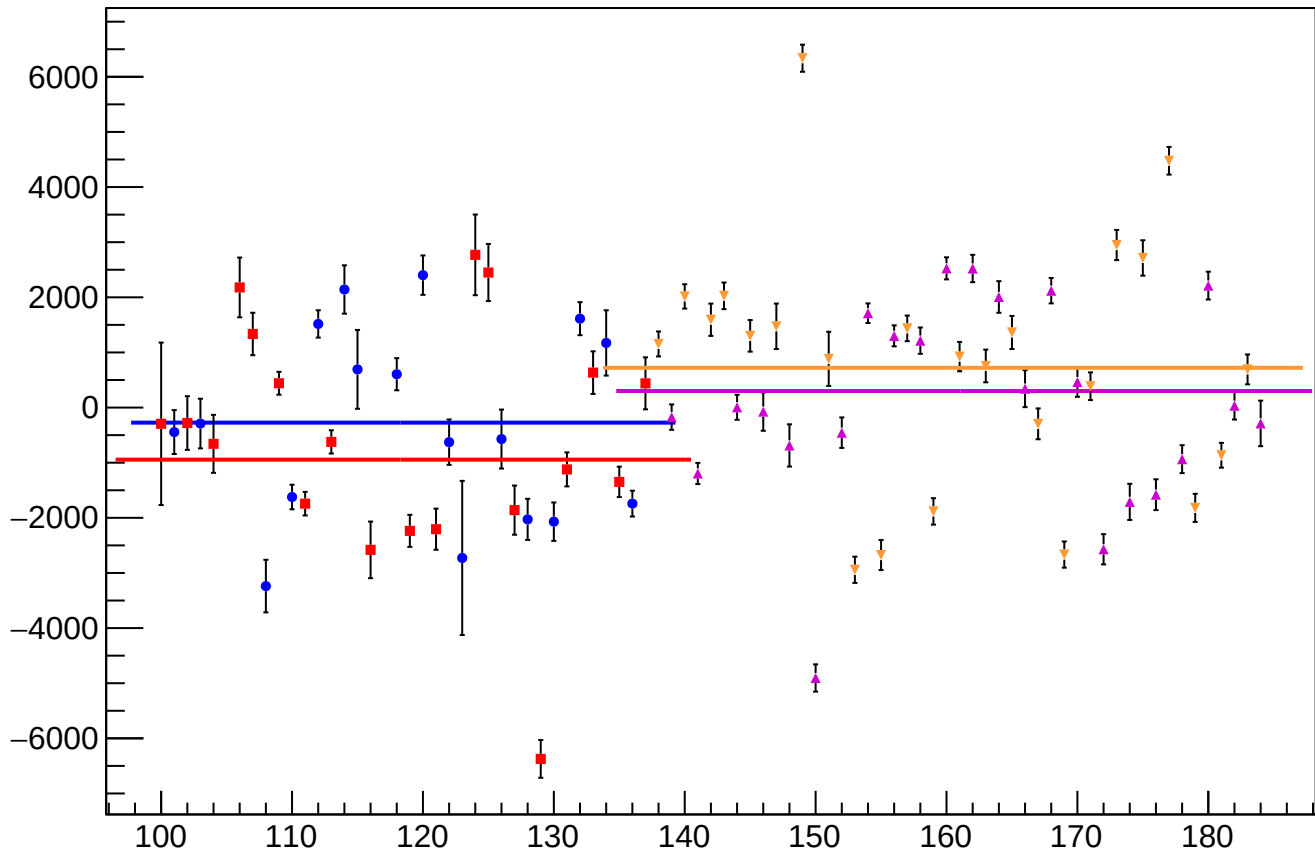
Right: 193.337 $\pm$ 0.039 χ^2/NDF : 2477113.4/35

In: 201.743 $\pm$ 0.030 χ^2/NDF :2139585.1/39

Out: 206.917 $\pm$ 0.030 χ^2/NDF :2493172.2/42

All: 204.325 $\pm$ 0.021 χ^2/NDF : 4647353.0/82

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -273.296 ± 85.630 χ^2/NDF : 362.8/16

Left Out: 721.687 ± 53.809 χ^2/NDF : 1828.2/23

Right Out: -944.335 ± 78.399 χ^2/NDF : 524.4/18

Left In: 300.516 ± 51.984 χ^2/NDF : 1208.6/22

Left: 503.836 ± 37.387 χ^2/NDF : 3068.5/46

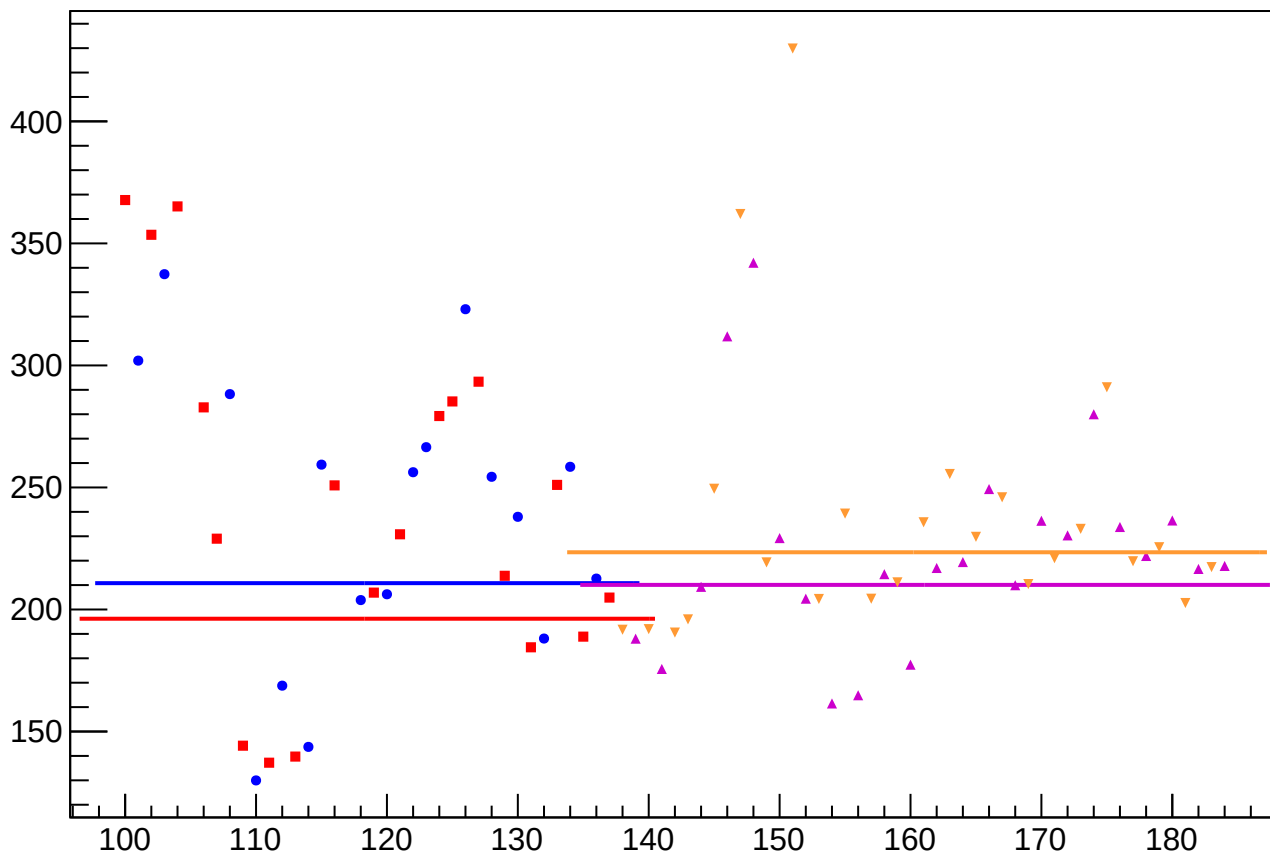
Right: -638.342 ± 57.824 χ^2/NDF : 920.6/35

In: 145.992 ± 44.436 χ^2/NDF : 1604.2/39

Out: 188.178 ± 44.365 χ^2/NDF : 2659.6/42

All: 167.119 ± 31.396 χ^2/NDF : 4264.2/82

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.791 ± 0.061 $\chi^2/\text{NDF}: 873120.0/16$

Left Out: 223.446 ± 0.038 $\chi^2/\text{NDF}: 923143.1/23$

Right Out: 196.216 ± 0.055 $\chi^2/\text{NDF}: 1201600.7/18$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.533 ± 0.026 $\chi^2/\text{NDF}: 2002250.4/46$

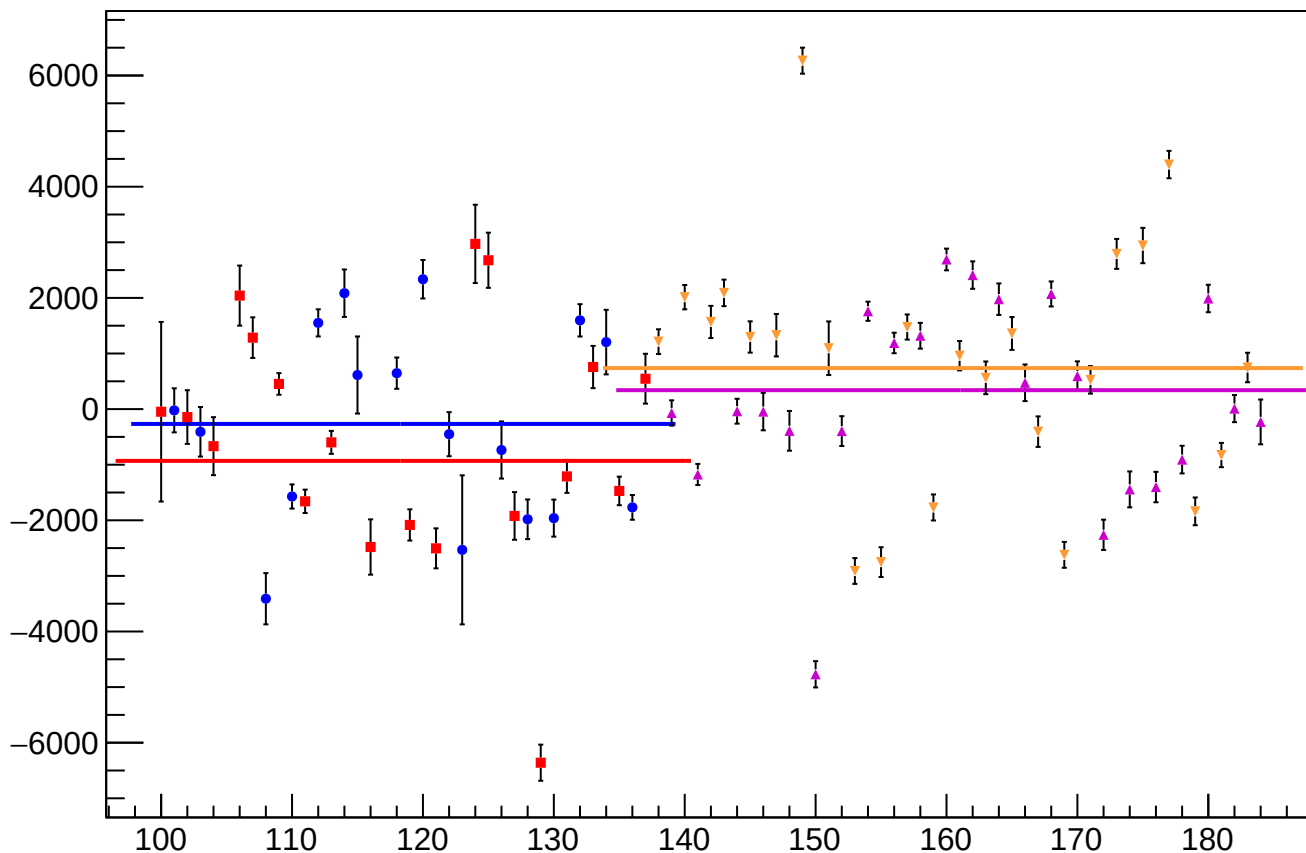
Right: 202.862 ± 0.041 $\chi^2/\text{NDF}: 2106241.2/35$

In: 210.271 ± 0.031 $\chi^2/\text{NDF}: 1888495.3/39$

Out: 214.726 ± 0.031 $\chi^2/\text{NDF}: 2288756.4/42$

All: 212.503 ± 0.022 $\chi^2/\text{NDF}: 4187318.9/82$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Left: 531.830 ± 36.580 χ^2/NDF : 3135.2/46

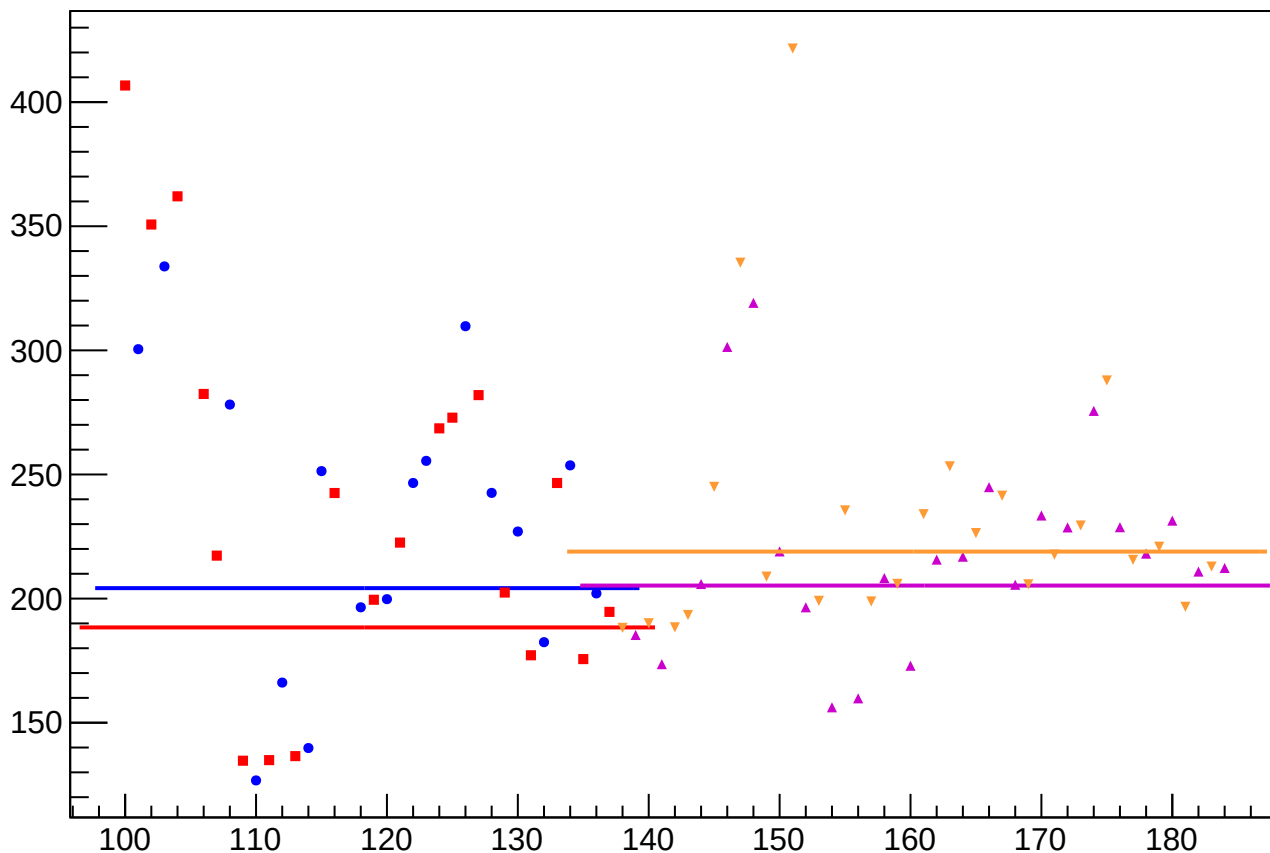
Right: -630.431 ± 55.837 χ^2/NDF : 1002.9/35

In: 175.016 ± 43.330 χ^2/NDF : 1624.2/39

Out: 190.542 ± 43.216 χ^2/NDF : 2817.0/42

All: 182.799 ± 30.599 χ^2/NDF : 4441.3/82

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.211+/-0.059 χ^2/NDF : 866108.6/16

Left Out: 218.933+/-0.037 χ^2/NDF : 897233.4/23

Right Out: 188.384+/-0.053 χ^2/NDF : 1247760.0/18

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.838+/-0.026 χ^2/NDF : 1964275.6/46

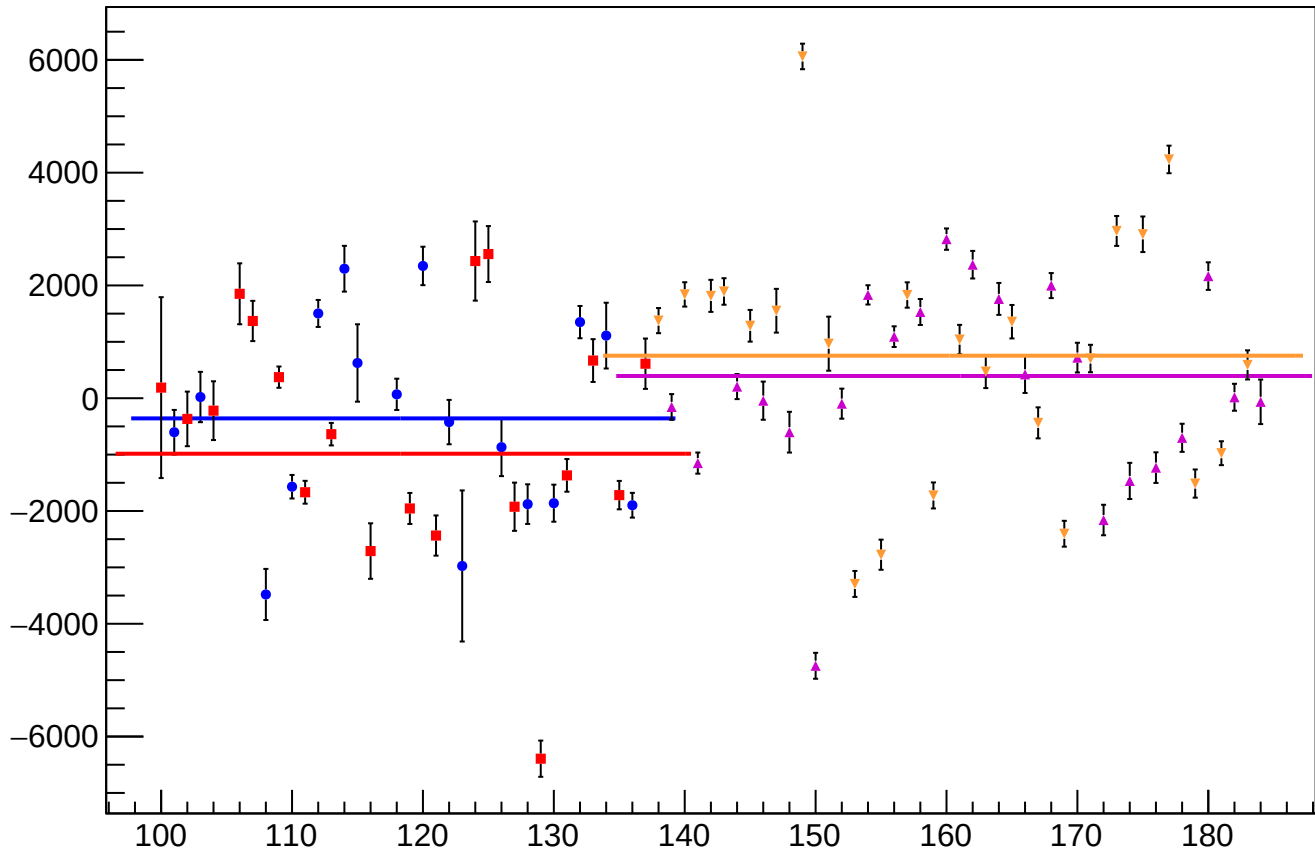
Right: 195.548+/-0.039 χ^2/NDF : 2153679.4/35

In: 204.966+/-0.031 χ^2/NDF : 1863504.8/39

Out: 208.916+/-0.031 χ^2/NDF : 2365235.8/42

All: 206.946+/-0.022 χ^2/NDF : 4237071.1/82

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -357.821 ± 81.517 $\chi^2/\text{NDF}: 388.2/16$

Left Out: 754.119 ± 52.156 $\chi^2/\text{NDF}: 1931.9/23$

Right Out: -984.342 ± 73.851 $\chi^2/\text{NDF}: 588.2/18$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 567.776 ± 36.210 $\chi^2/\text{NDF}: 3192.9/46$

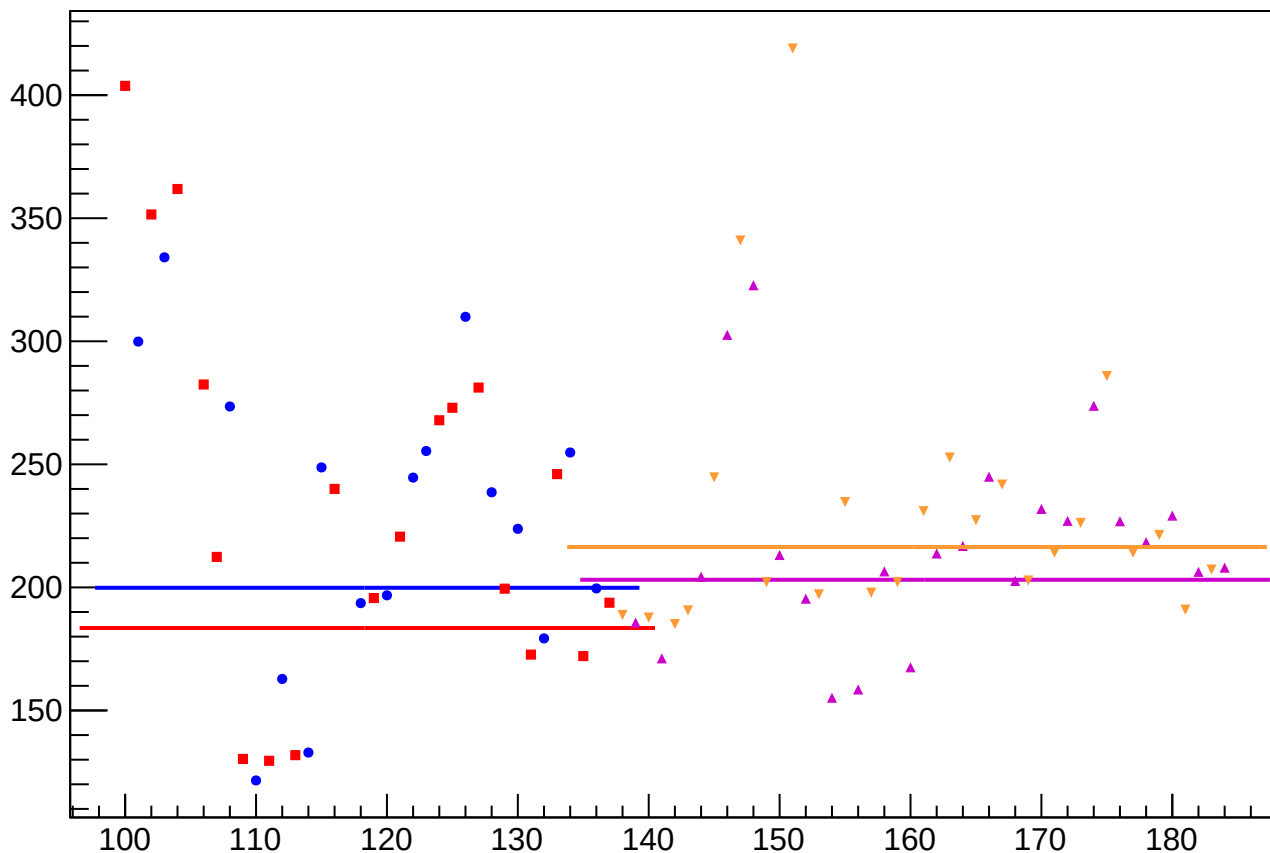
Right: -701.918 ± 54.731 $\chi^2/\text{NDF}: 1008.9/35$

In: 186.888 ± 42.813 $\chi^2/\text{NDF}: 1686.3/39$

Out: 175.596 ± 42.603 $\chi^2/\text{NDF}: 2889.9/42$

All: 181.214 ± 30.199 $\chi^2/\text{NDF}: 4576.2/82$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.847 +/- 0.058 χ^2/NDF : 940786.8/16

Left Out: 216.394 +/- 0.037 χ^2/NDF : 945732.8/23

Right Out: 183.513 +/- 0.052 χ^2/NDF : 1345883.7/18

Left In: 203.101 +/- 0.036 χ^2/NDF : 1038013.0/22

Left: 209.508 +/- 0.026 χ^2/NDF : 2051041.8/46

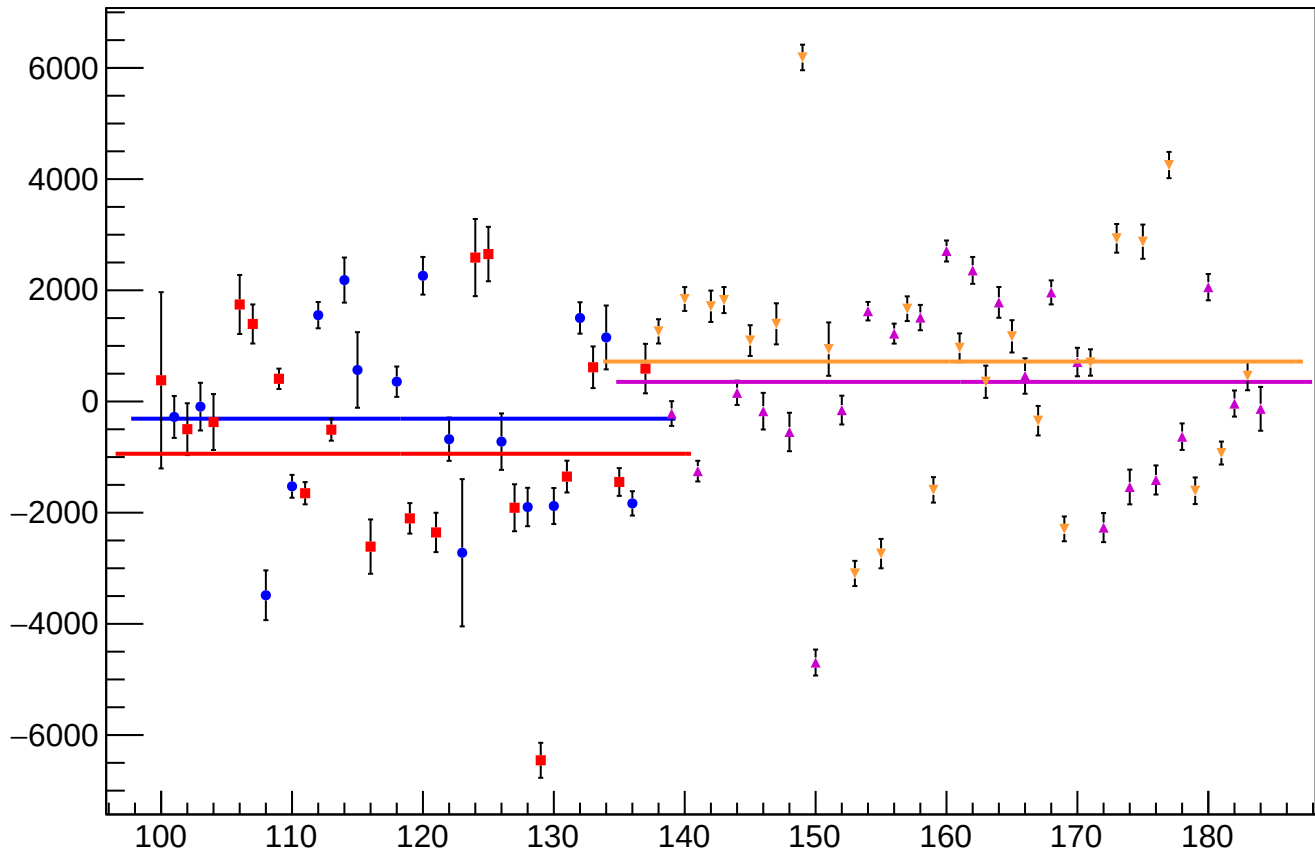
Right: 190.876 +/- 0.039 χ^2/NDF : 2330772.3/35

In: 202.203 +/- 0.030 χ^2/NDF : 1981107.2/39

Out: 205.452 +/- 0.030 χ^2/NDF : 2556137.8/42

All: 203.836 +/- 0.021 χ^2/NDF : 4543030.4/82

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -309.418+/-80.357 χ^2/NDF : 396.4/16

Left Out: 718.588+/-51.279 χ^2/NDF :1922.9/23

Right Out: -940.123+/-72.716 χ^2/NDF : 616.8/18

Left In: 352.432+/-49.316 χ^2/NDF :1233.1/22

Left: 528.368+/-35.545 χ^2/NDF : 3182.4/46

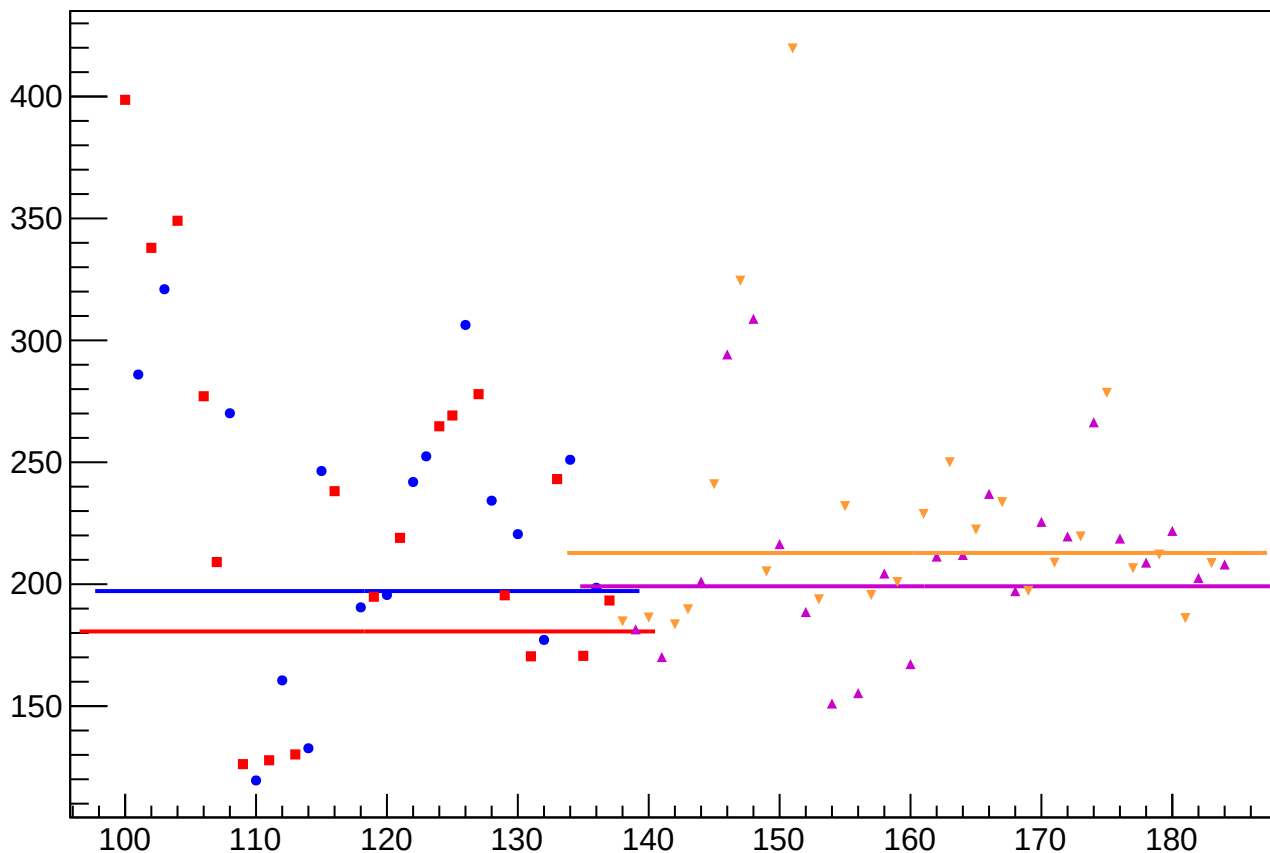
Right: -656.175+/-53.917 χ^2/NDF : 1047.2/35

In: 171.353+/-42.032 χ^2/NDF :1678.8/39

Out: 167.679+/-41.907 χ^2/NDF :2887.2/42

All: 169.511+/-29.677 χ^2/NDF : 4566.0/82

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.185+/-0.057 χ^2/NDF : 909929.0/16

Left Out: 212.820+/-0.036 χ^2/NDF : 917045.9/23

Right Out: 180.624+/-0.051 χ^2/NDF : 1341837.4/18

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.714+/-0.025 χ^2/NDF : 1976904.7/46

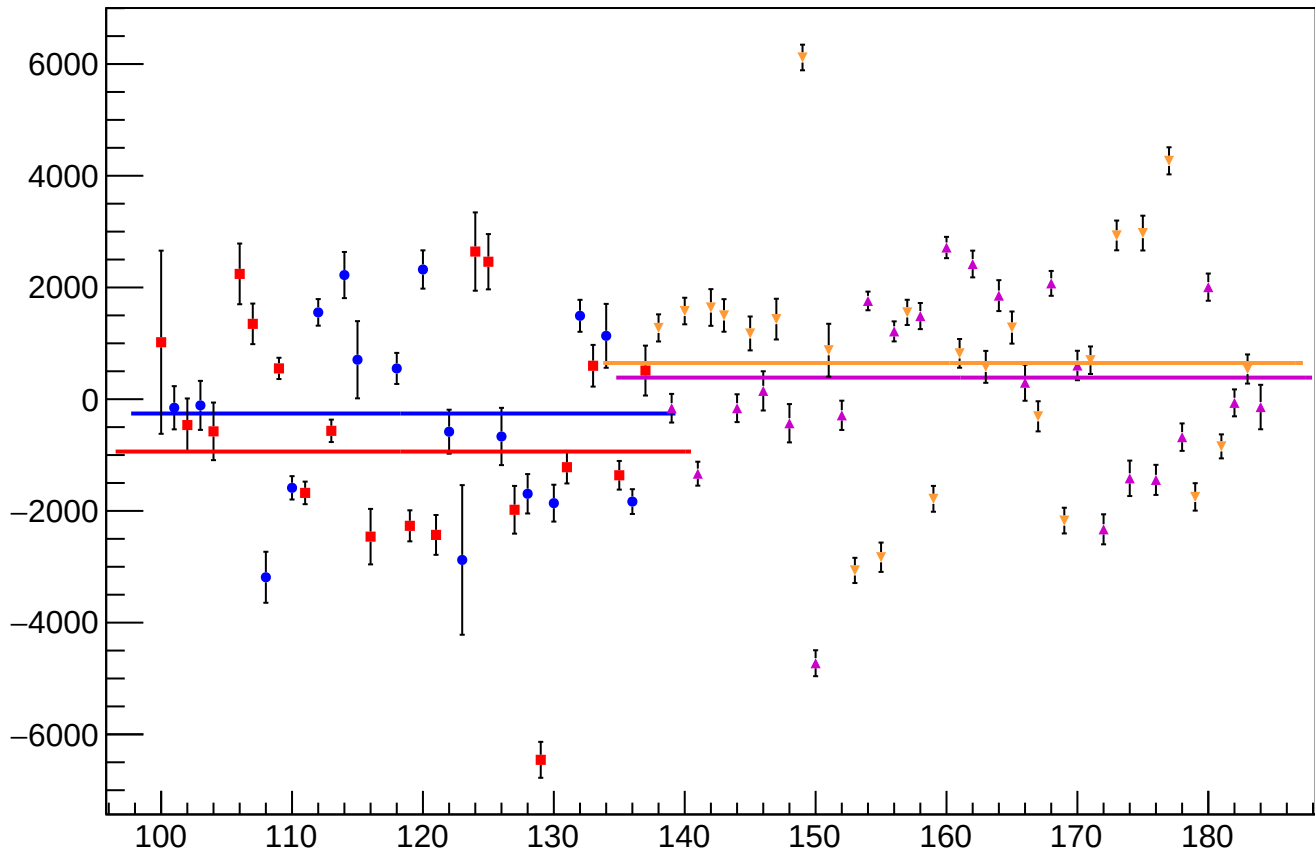
Right: 188.080+/-0.038 χ^2/NDF : 2298467.9/35

In: 198.607+/-0.030 χ^2/NDF : 1896723.1/39

Out: 202.127+/-0.030 χ^2/NDF : 2520737.8/42

All: 200.372+/-0.021 χ^2/NDF : 4424496.8/82

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -256.429+/-81.594 χ^2/NDF : 381.8/16

Left Out: 648.005+/-53.238 χ^2/NDF :1851.9/23

Right Out: -937.482+/-74.168 χ^2/NDF : 609.1/18

Left In: 386.248+/-50.994 χ^2/NDF :1238.0/22

Left: 511.493+/-36.826 χ^2/NDF : 3102.5/46

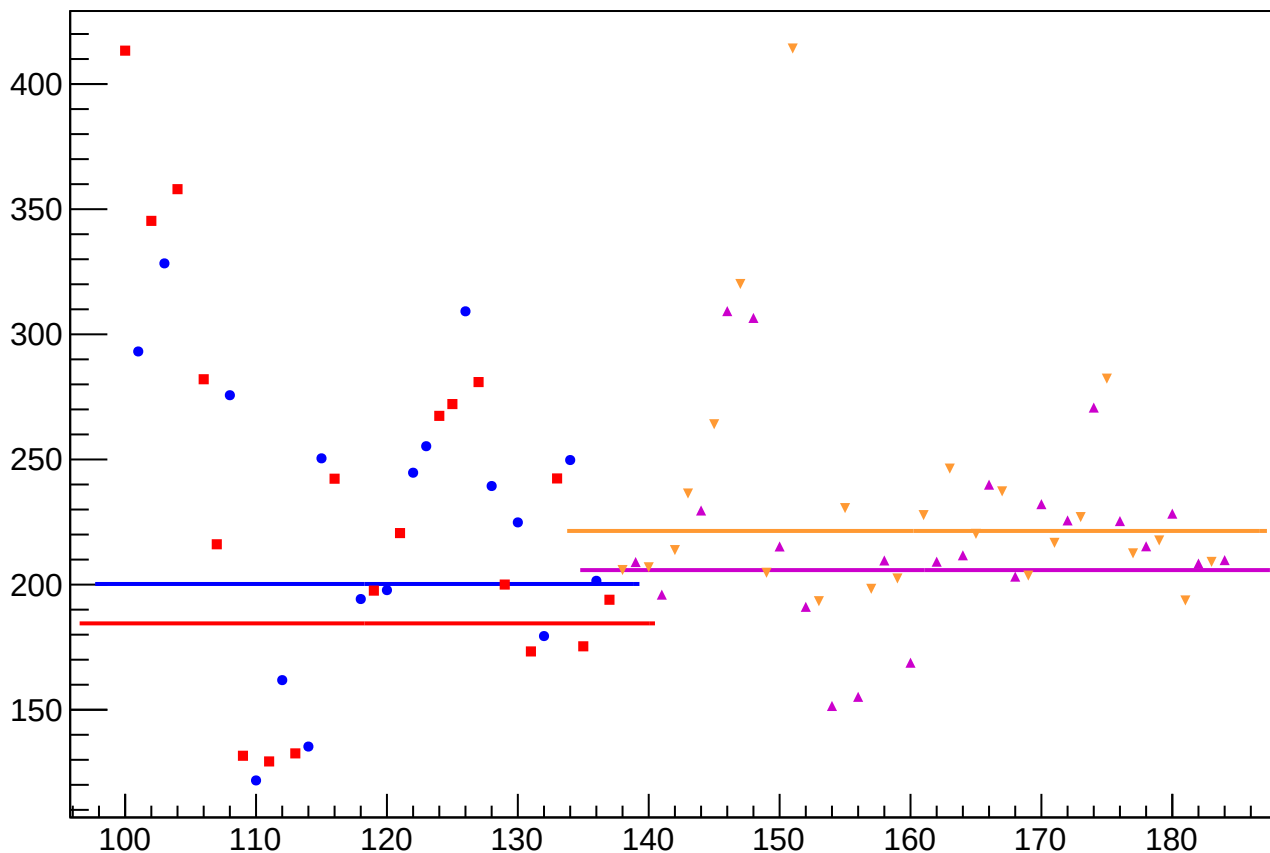
Right: -629.348+/-54.883 χ^2/NDF : 1029.0/35

In: 205.733+/-43.243 χ^2/NDF :1664.5/39

Out: 108.883+/-43.249 χ^2/NDF :2762.6/42

All: 157.315+/-30.580 χ^2/NDF : 4429.5/82

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.256+/-0.058 χ^2/NDF : 915910.1/16

Left Out: 221.446+/-0.038 χ^2/NDF : 772103.8/23

Right Out: 184.510+/-0.052 χ^2/NDF : 1314720.9/18

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.288+/-0.026 χ^2/NDF : 1857051.7/46

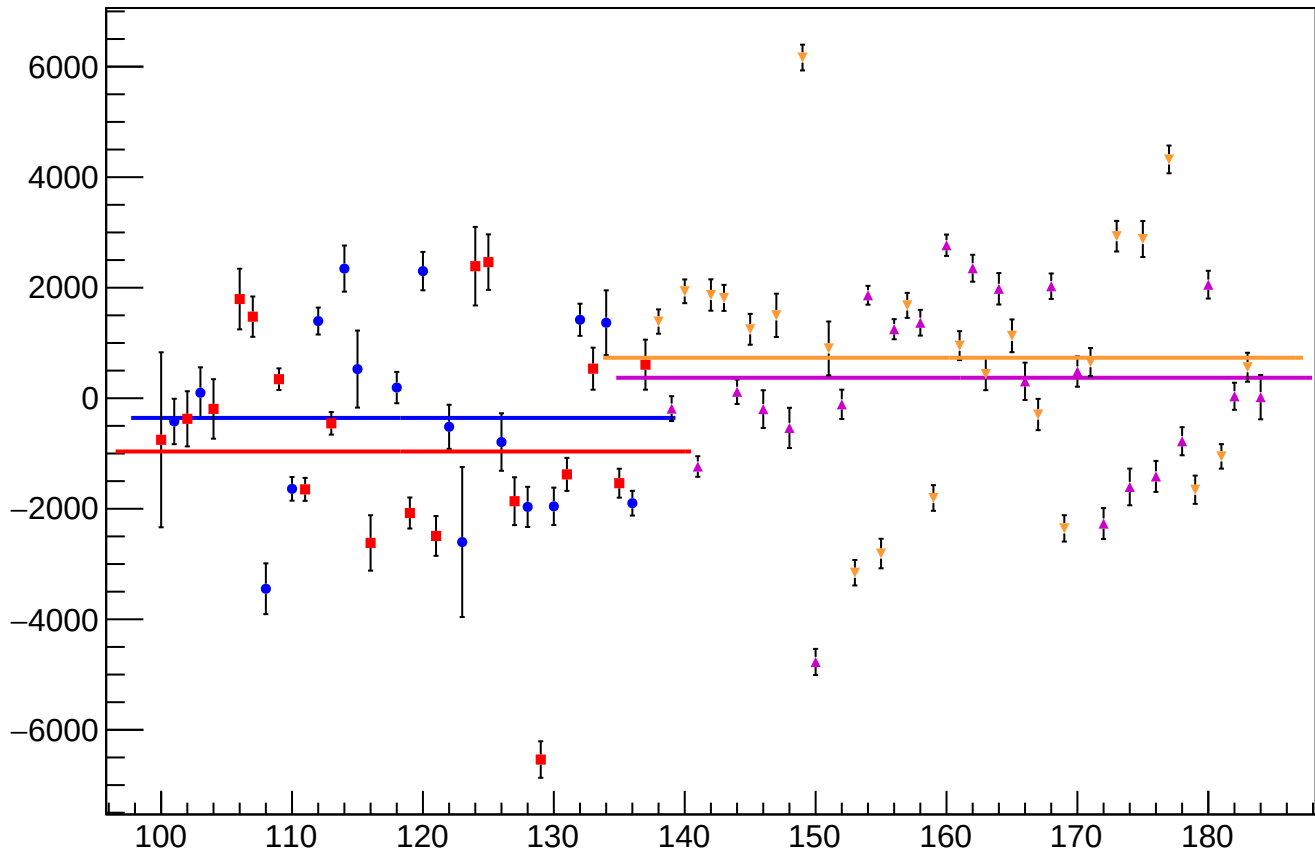
Right: 191.634+/-0.039 χ^2/NDF : 2271416.2/35

In: 204.245+/-0.031 χ^2/NDF : 1917462.0/39

Out: 208.886+/-0.031 χ^2/NDF : 2414174.3/42

All: 206.565+/-0.022 χ^2/NDF : 4343152.3/82

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -356.124 ± 83.321 χ^2/NDF : 378.6/16

Left Out: 732.633 ± 52.887 χ^2/NDF : 1873.8/23

Right Out: -963.743 ± 75.713 χ^2/NDF : 572.4/18

Left In: 370.408 ± 50.884 χ^2/NDF : 1223.2/22

Left: 544.535 ± 36.668 χ^2/NDF : 3121.3/46

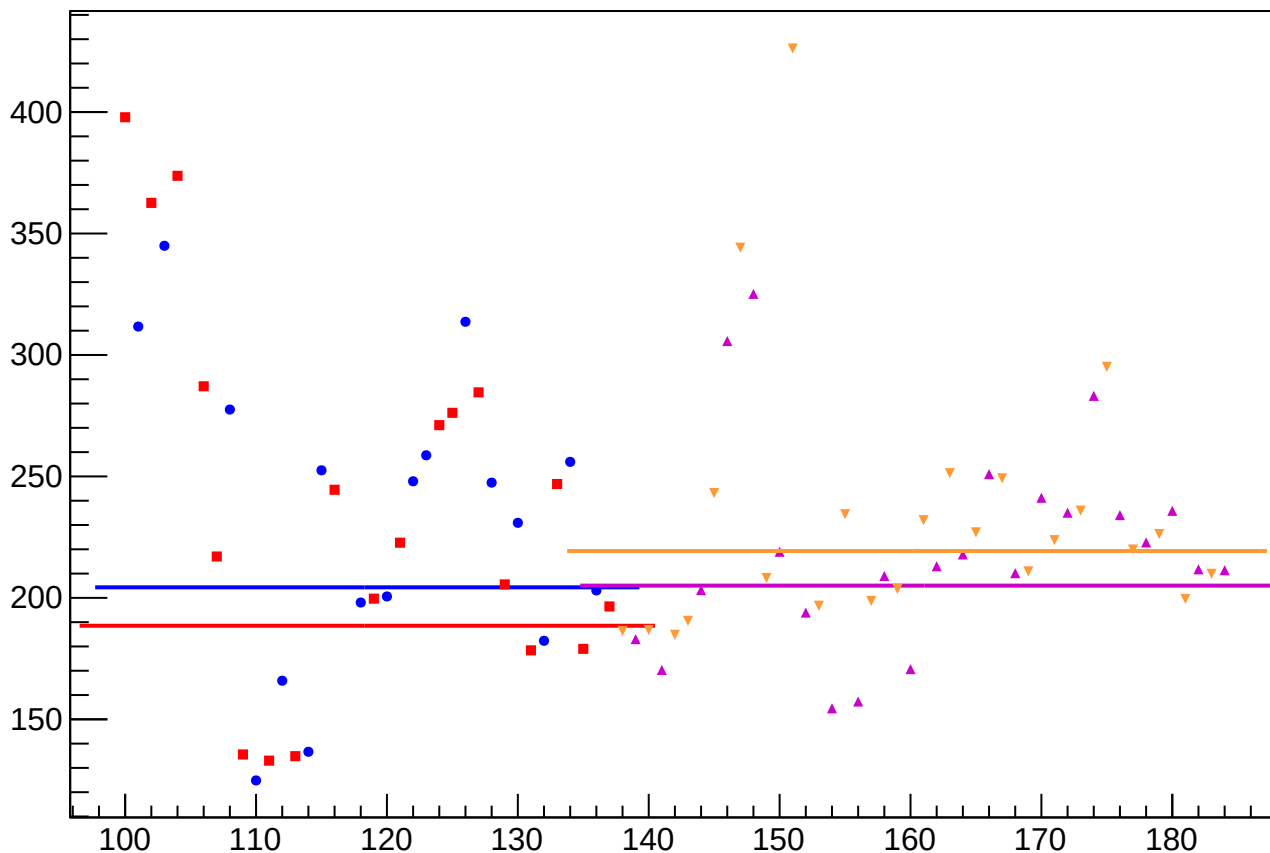
Right: -688.935 ± 56.034 χ^2/NDF : 980.1/35

In: 173.049 ± 43.427 χ^2/NDF : 1657.1/39

Out: 176.357 ± 43.357 χ^2/NDF : 2783.6/42

All: 174.705 ± 30.682 χ^2/NDF : 4440.7/82

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.343+/-0.059 χ^2/NDF : 944923.9/16

Left Out: 219.299+/-0.037 χ^2/NDF : 974771.5/23

Right Out: 188.523+/-0.054 χ^2/NDF : 1311109.8/18

Left In: 205.046+/-0.036 χ^2/NDF : 1144197.1/22

Left: 211.898+/-0.026 χ^2/NDF : 2194394.7/46

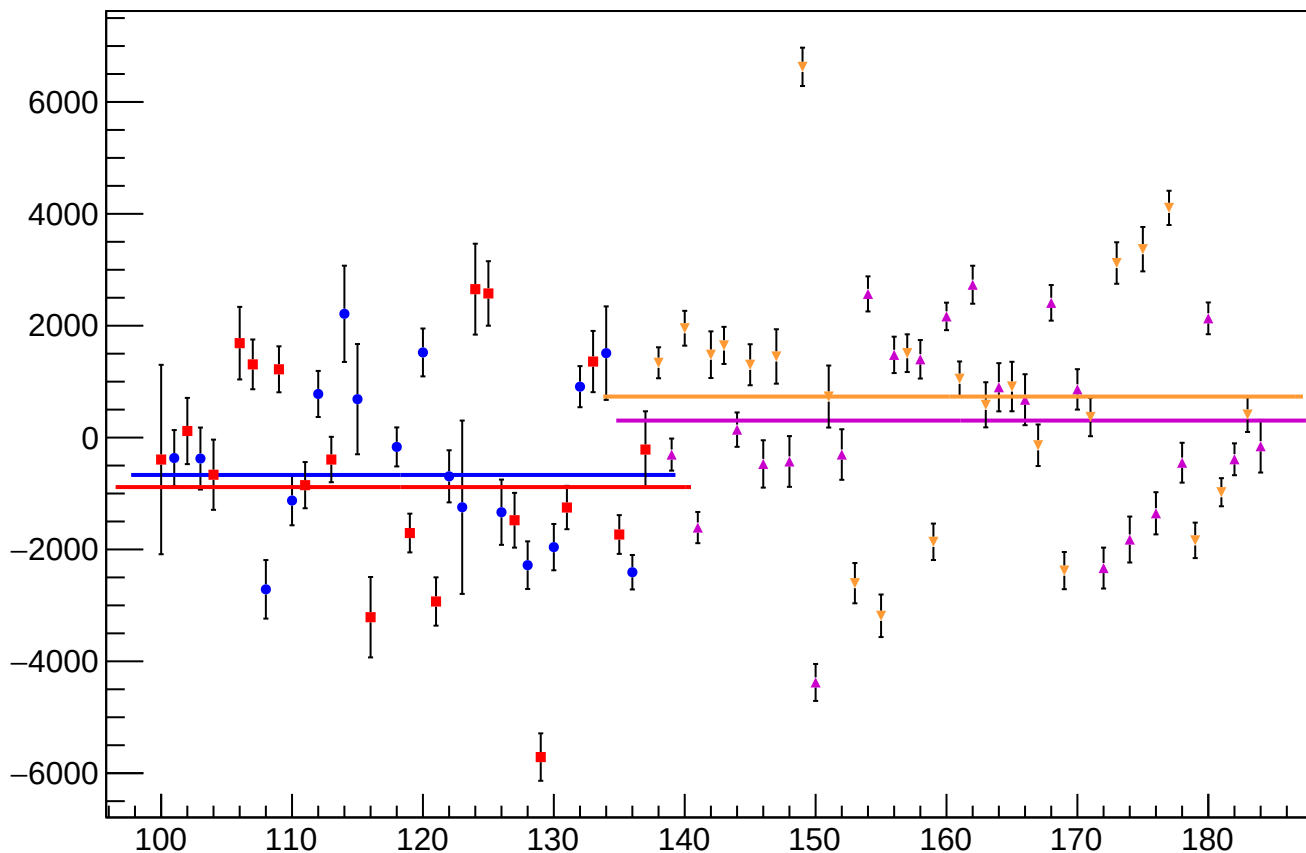
Right: 195.678+/-0.040 χ^2/NDF : 2295521.2/35

In: 204.855+/-0.031 χ^2/NDF : 2089224.9/39

Out: 209.207+/-0.031 χ^2/NDF : 2507965.8/42

All: 207.035+/-0.022 χ^2/NDF : 4607248.4/82

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -668.118+/-114.189 χ^2/NDF : 153.3/16

Left Out: 733.063+/-70.483 χ^2/NDF :1007.4/23

Right Out: -884.858+/-110.843 χ^2/NDF : 320.1/18

Left In: 304.161+/-70.958 χ^2/NDF :643.5/22

Left: 520.050+/-50.006 χ^2/NDF : 1669.3/46

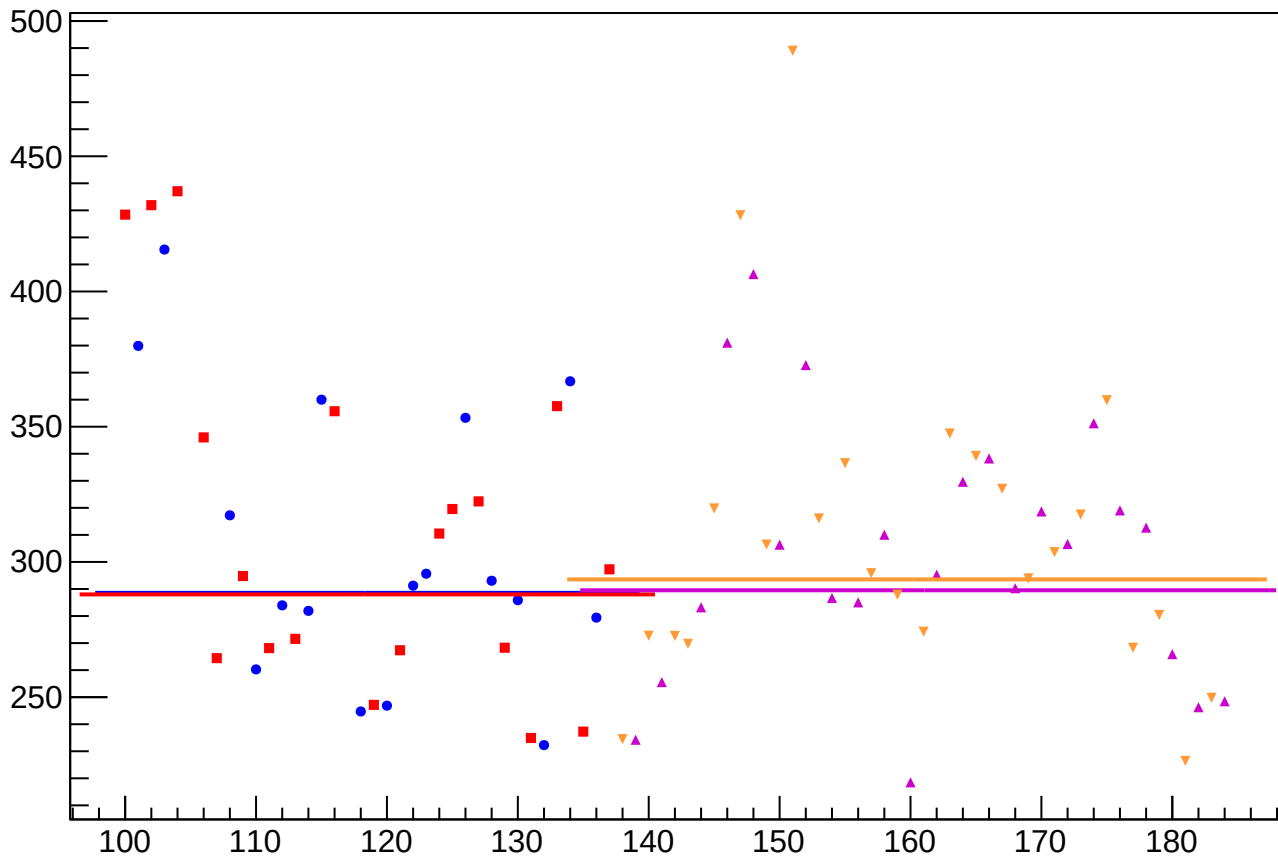
Right: -779.711+/-79.534 χ^2/NDF : 475.3/35

In: 33.310+/-60.269 χ^2/NDF :849.2/39

Out: 267.219+/-59.477 χ^2/NDF :1479.3/42

All: 151.812+/-42.334 χ^2/NDF : 2336.1/82

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.577 $\pm$ 0.081 χ^2 /NDF: 338793.1/16

Left Out: 293.544 $\pm$ 0.050 χ^2 /NDF: 910305.4/23

Right Out: 287.995 $\pm$ 0.078 χ^2 /NDF: 459962.0/18

Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

Left: 291.546 $\pm$ 0.035 χ^2 /NDF: 1691441.2/46

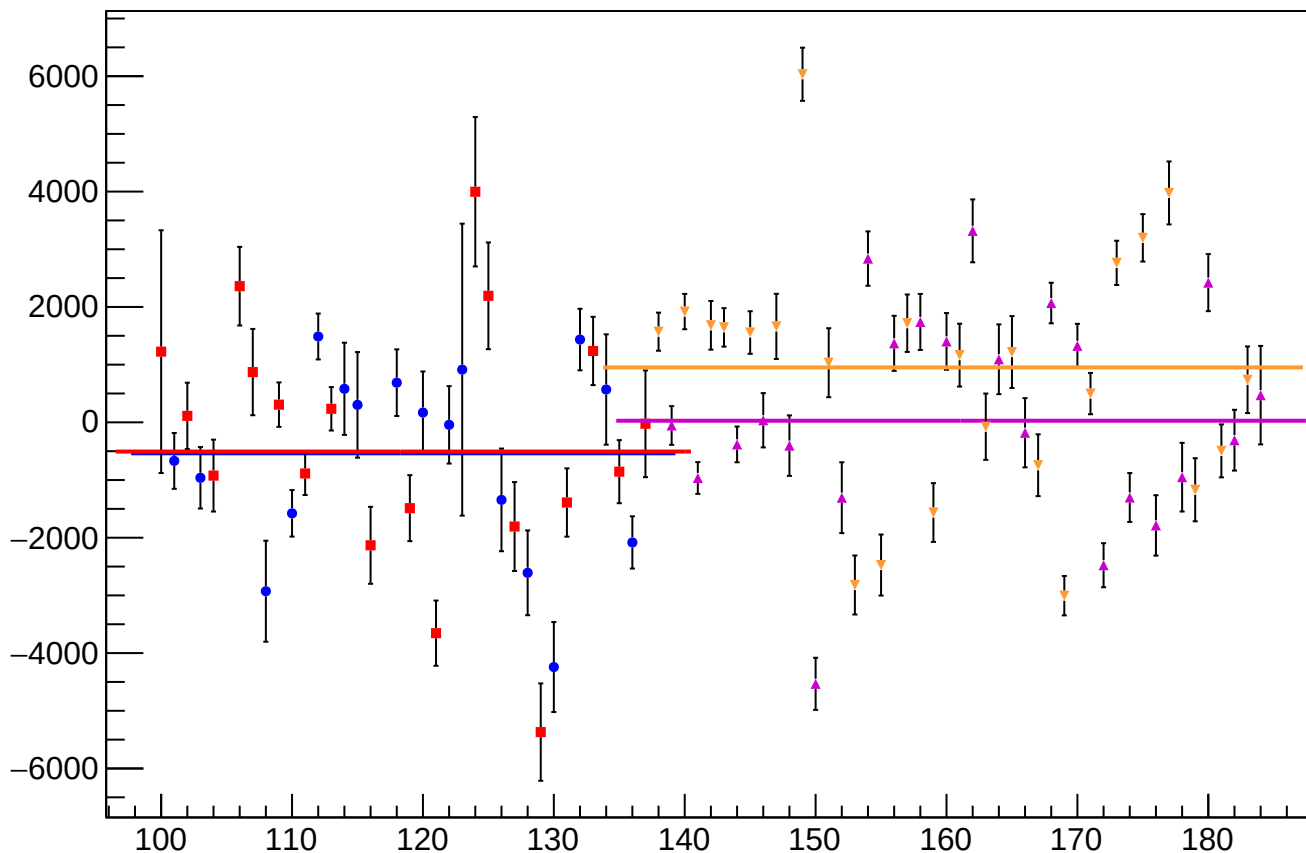
Right: 288.277 $\pm$ 0.056 χ^2 /NDF: 798781.9/35

In: 289.258 $\pm$ 0.043 χ^2 /NDF: 1116792.9/39

Out: 291.946 $\pm$ 0.042 χ^2 /NDF: 1373836.6/42

All: 290.620 $\pm$ 0.030 χ^2 /NDF: 2492644.6/82

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -536.568 $\pm$ 147.571 χ^2/NDF : 107.9/16

Left Out: 952.087 $\pm$ 89.915 χ^2/NDF : 527.2/23

Right Out: -506.373 $\pm$ 135.761 χ^2/NDF : 140.9/18

Left In: 27.763 $\pm$ 92.331 χ^2/NDF : 362.5/22

Left: 502.175 $\pm$ 64.417 χ^2/NDF : 941.2/46

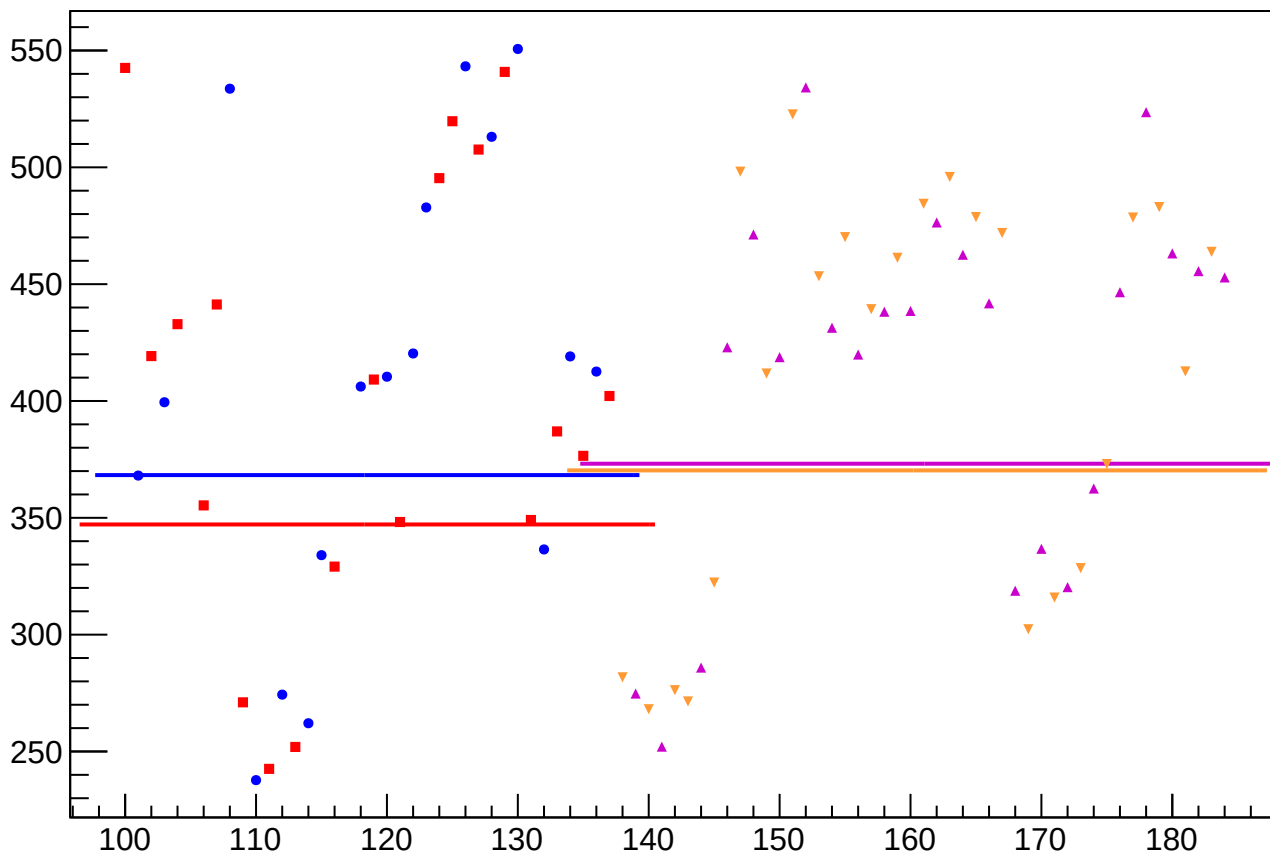
Right: -520.214 $\pm$ 99.912 χ^2/NDF : 248.8/35

In: -131.003 $\pm$ 78.273 χ^2/NDF : 480.9/39

Out: 507.397 $\pm$ 74.965 χ^2/NDF : 748.3/42

All: 201.974 $\pm$ 54.140 χ^2/NDF : 1263.9/82

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.287 $\pm$ 0.104 χ^2 /NDF: 765418.4/16

Left Out: 370.296 $\pm$ 0.064 χ^2 /NDF:1848478.9/23

Right Out: 347.159 $\pm$ 0.096 χ^2 /NDF: 816304.3/18

Left In: 373.161 $\pm$ 0.065 χ^2 /NDF:1636244.2/22

Left: 371.691 $\pm$ 0.046 χ^2 /NDF: 3485711.1/46

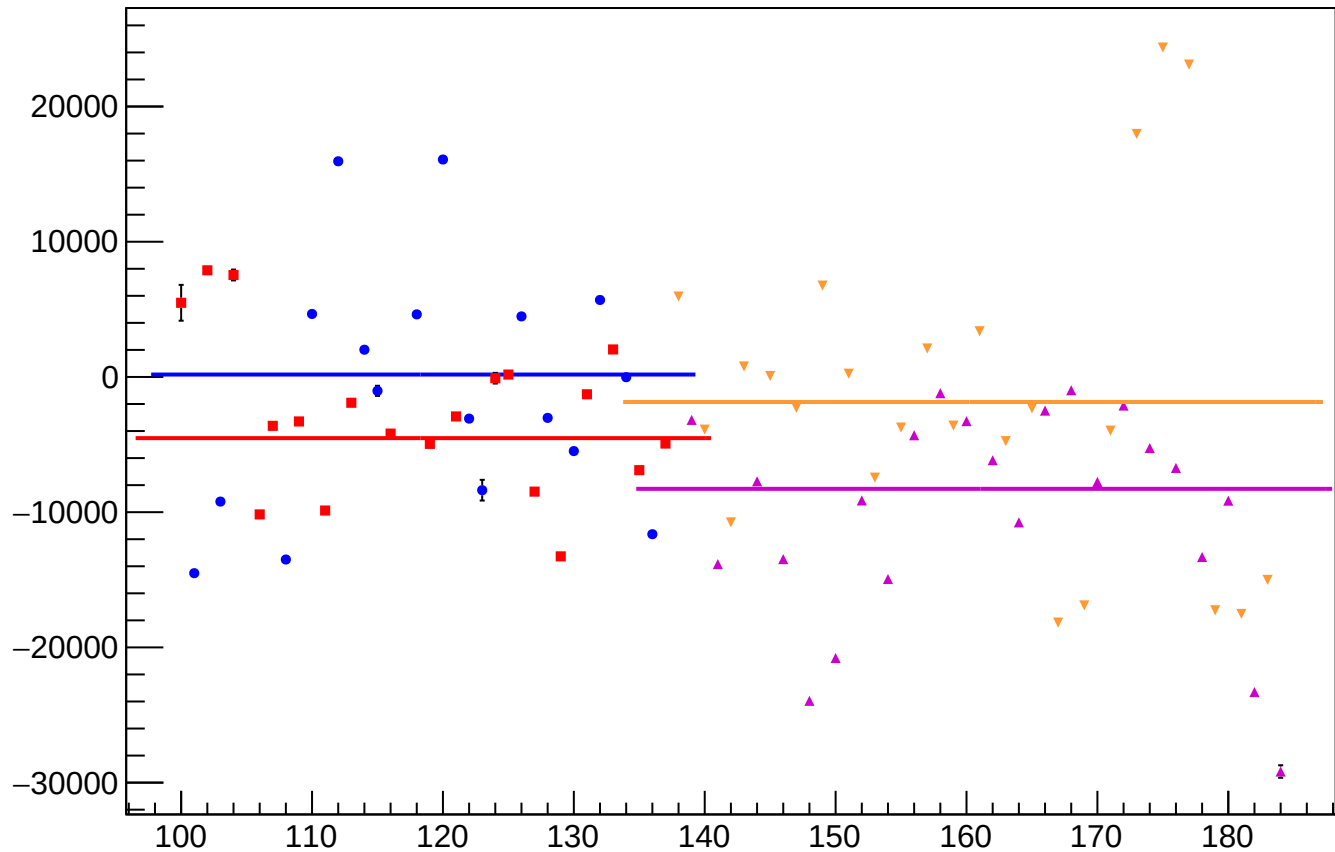
Right: 356.844 $\pm$ 0.071 χ^2 /NDF: 1603928.6/35

In: 371.790 $\pm$ 0.055 χ^2 /NDF:2403230.1/39

Out: 363.242 $\pm$ 0.053 χ^2 /NDF:2705163.4/42

All: 367.331 $\pm$ 0.038 χ^2 /NDF: 5120835.0/82

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788+/-54.896 χ^2/NDF : 30662.2/16

Left Out: -1850.195+/-42.671 χ^2/NDF : 62507.7/23

Right Out: -4523.222+/-52.440 χ^2/NDF : 7474.2/18

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4941.357+/-30.733 χ^2/NDF : 96282.2/46

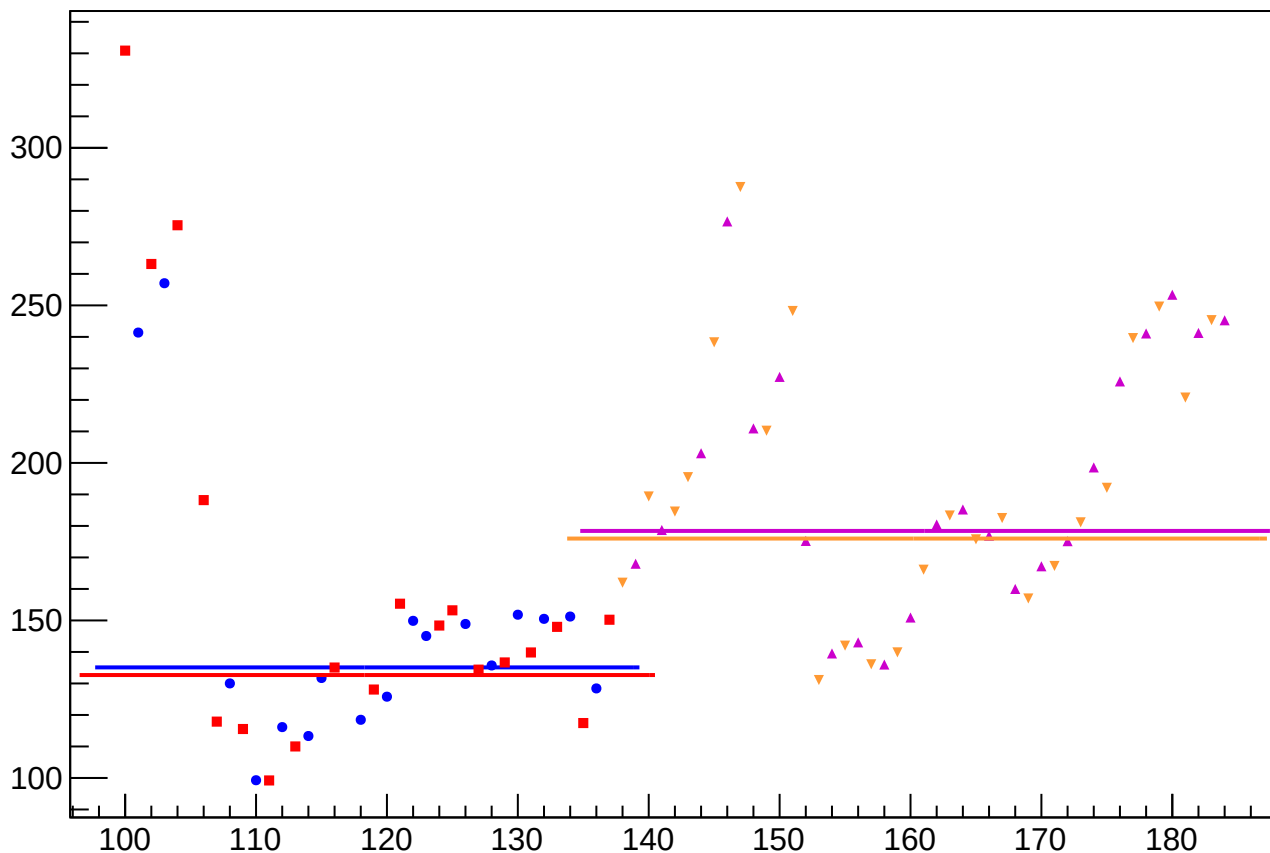
Right: -2279.776+/-37.919 χ^2/NDF : 41972.4/35

In: -4939.792+/-34.475 χ^2/NDF : 67888.0/39

Out: -2915.027+/-33.098 χ^2/NDF : 71545.1/42

All: -3886.148+/-23.876 χ^2/NDF : 141228.1/8

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099 $\pm$ 0.039 χ^2 /NDF: 657657.4/16

Left Out: 175.992 $\pm$ 0.030 χ^2 /NDF:1510458.7/23

Right Out: 132.672 $\pm$ 0.037 χ^2 /NDF: 828363.1/18

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.157 $\pm$ 0.022 χ^2 /NDF: 2807293.2/46

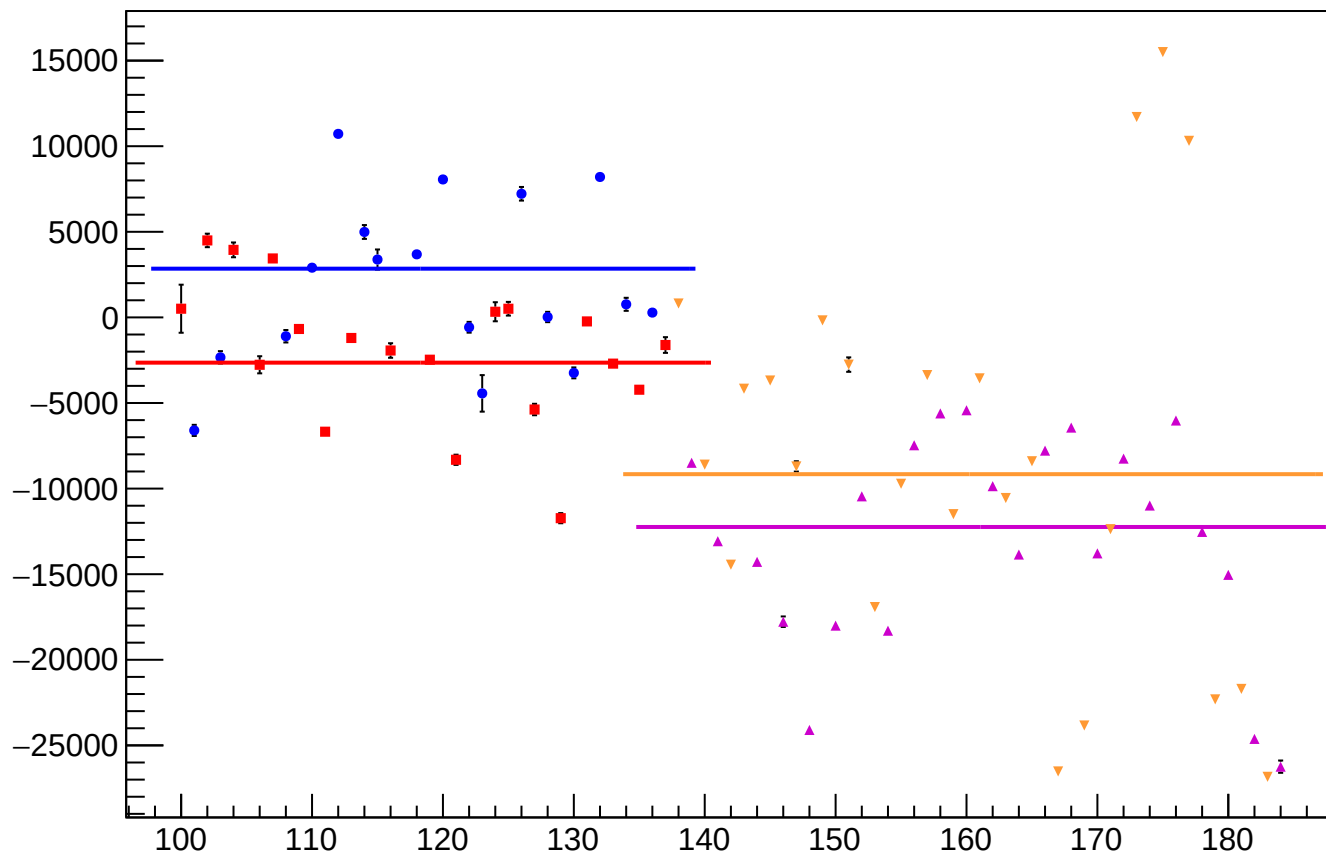
Right: 133.830 $\pm$ 0.027 χ^2 /NDF: 1488063.7/35

In: 161.330 $\pm$ 0.024 χ^2 /NDF:2705447.5/39

Out: 158.735 $\pm$ 0.023 χ^2 /NDF:3159978.8/42

All: 159.980 $\pm$ 0.017 χ^2 /NDF: 5871322.8/82

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117 $\pm$ 70.894 χ^2 /NDF: 4160.1/16

Left Out: -9157.806 $\pm$ 45.986 χ^2 /NDF:59867.8/23

Right Out: -2643.505 $\pm$ 65.711 χ^2 /NDF: 3177.7/18

Left In: -12242.226 $\pm$ 43.944 χ^2 /NDF:16615.8/22

Left: -10770.014 $\pm$ 31.771 χ^2 /NDF: 78835.1/46

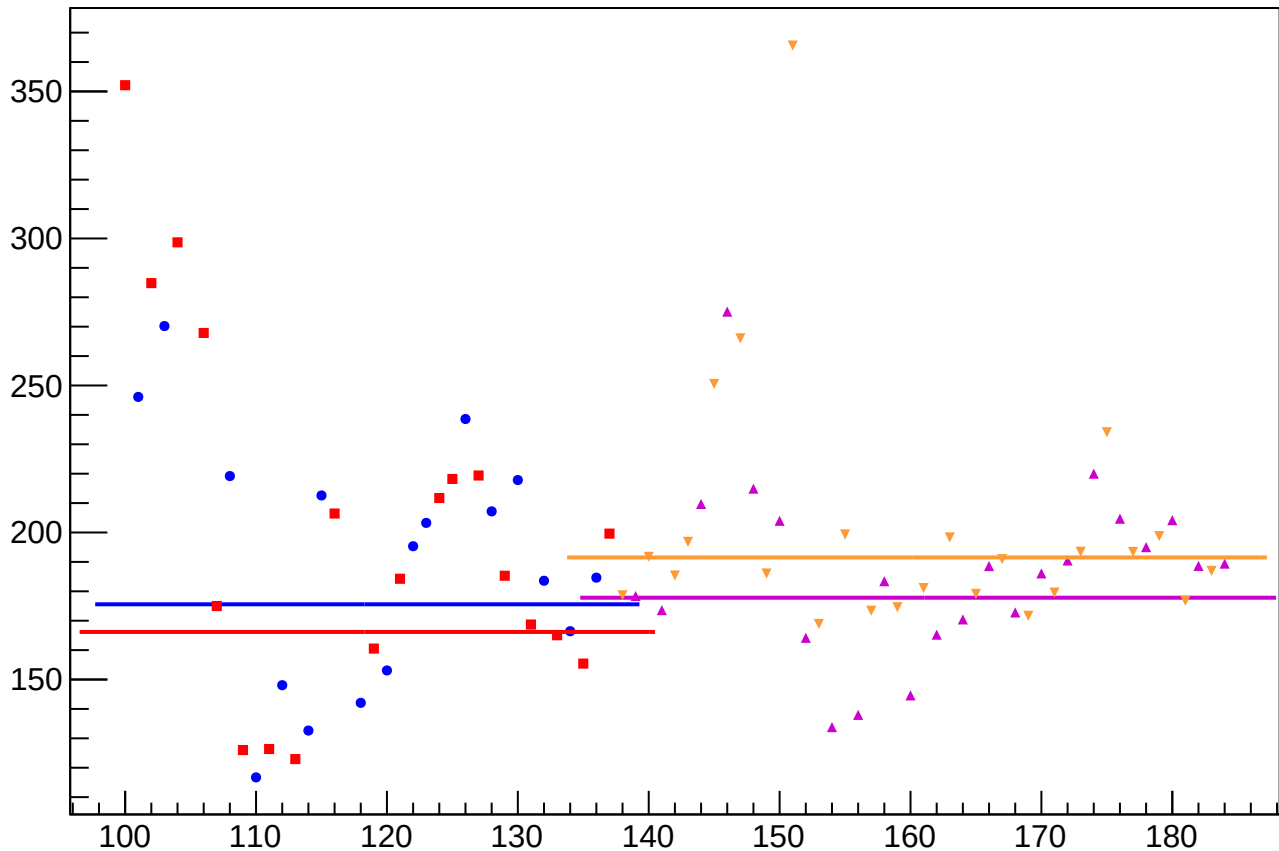
Right: -106.685 $\pm$ 48.193 χ^2 /NDF: 10563.0/35

In: -8054.077 $\pm$ 37.351 χ^2 /NDF:53499.1/39

Out: -7016.224 $\pm$ 37.677 χ^2 /NDF:69642.5/42

All: -7539.656 $\pm$ 26.525 χ^2 /NDF: 123524.3/8

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582+/-0.050 χ^2/NDF : 687852.4/16

Left Out: 191.517+/-0.033 χ^2/NDF : 725777.4/23

Right Out: 166.180+/-0.046 χ^2/NDF : 925559.0/18

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.358+/-0.022 χ^2/NDF : 1680992.5/46

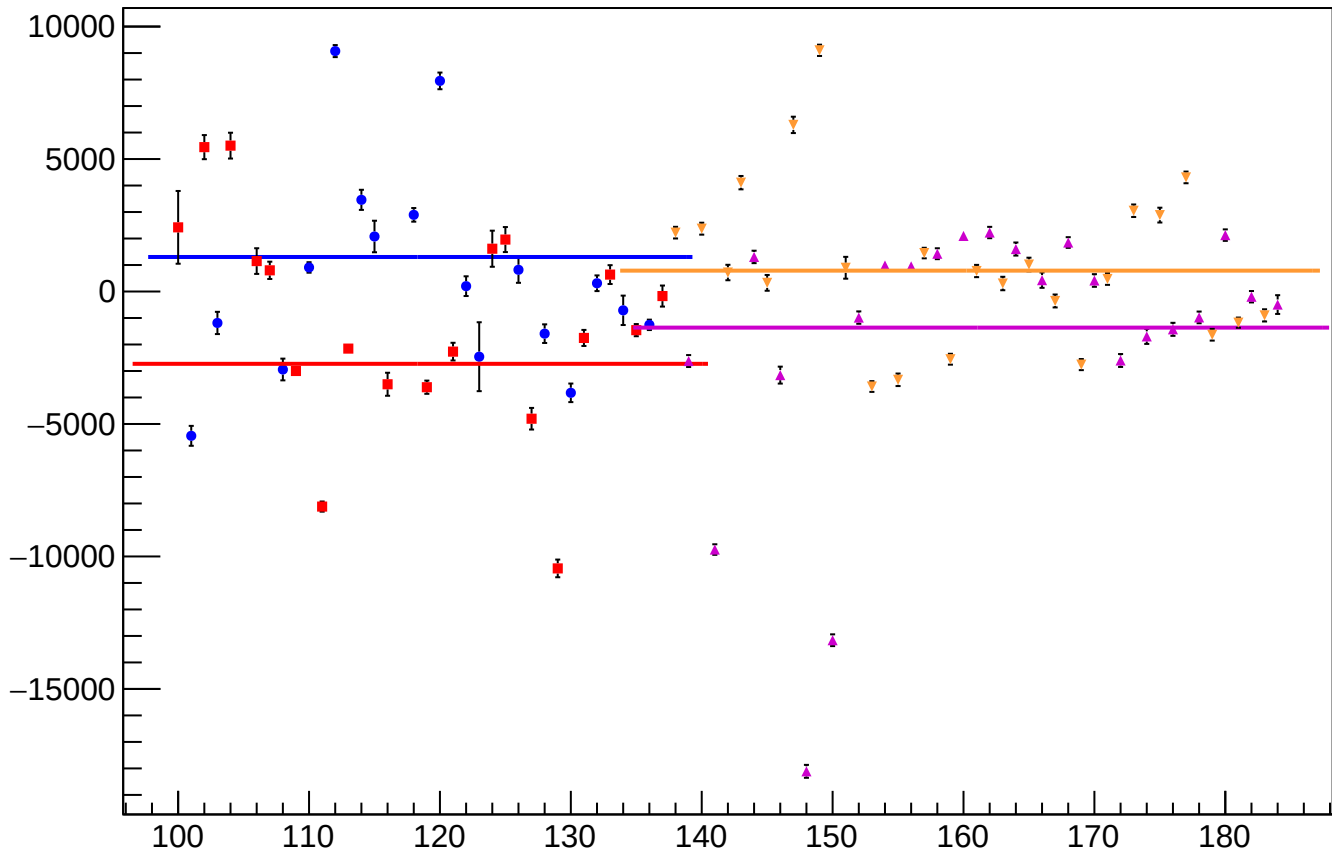
Right: 170.525+/-0.034 χ^2/NDF : 1632331.4/35

In: 177.200+/-0.026 χ^2/NDF : 1551788.7/39

Out: 183.187+/-0.027 χ^2/NDF : 1850929.8/42

All: 180.168+/-0.019 χ^2/NDF : 3428194.3/82

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 $\pm$ 77.323 χ^2/NDF : 2649.9/16

Left Out: 787.838 $\pm$ 47.968 χ^2/NDF :4146.3/23

Right Out: -2729.355 $\pm$ 70.012 χ^2/NDF : 2497.2/18

Left In: -1363.043 $\pm$ 45.807 χ^2/NDF :11632.9/22

Left: -337.155 $\pm$ 33.128 χ^2/NDF : 16830.7/46

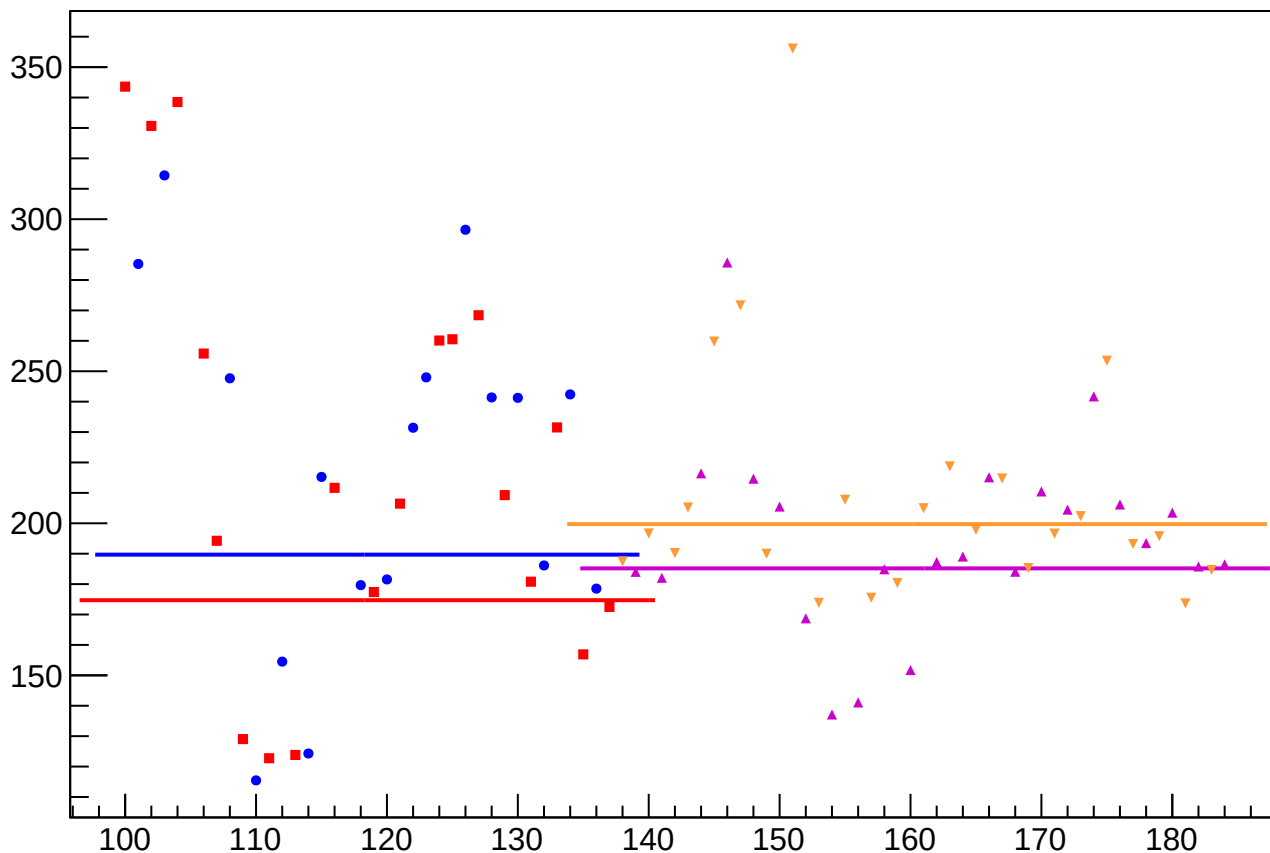
Right: -912.817 $\pm$ 51.899 χ^2/NDF : 6641.4/35

In: -670.480 $\pm$ 39.410 χ^2/NDF :15162.7/39

Out: -335.772 $\pm$ 39.571 χ^2/NDF :8360.9/42

All: -503.808 $\pm$ 27.924 χ^2/NDF : 23559.6/82

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2/NDF : 977199.2/16

Left Out: 199.729 $\pm$ 0.034 χ^2/NDF : 724753.3/23

Right Out: 174.707 $\pm$ 0.050 χ^2/NDF : 1291115.5/18

Left In: 185.171 $\pm$ 0.032 χ^2/NDF : 882752.2/22

Left: 192.114 $\pm$ 0.023 χ^2/NDF : 1703859.4/46

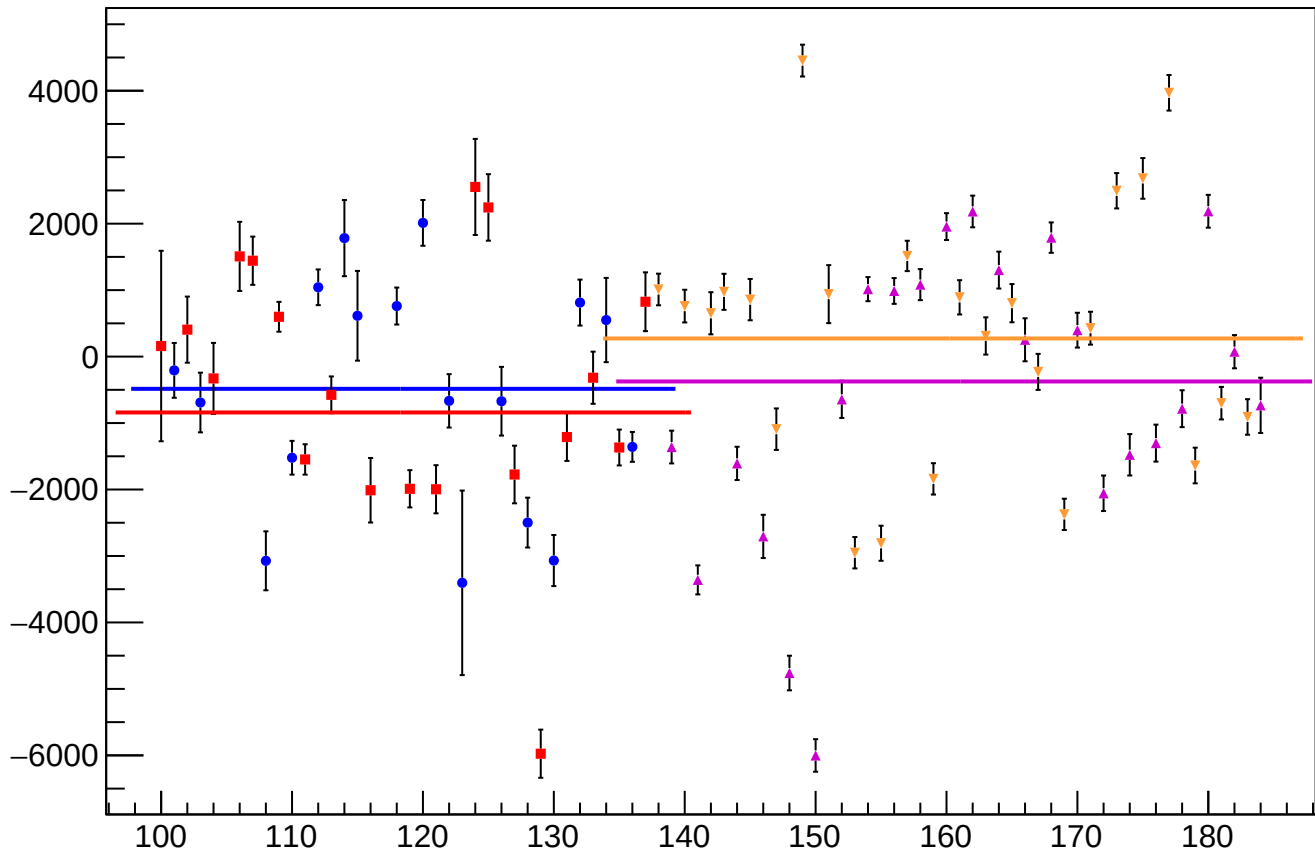
Right: 181.455 $\pm$ 0.037 χ^2/NDF : 2309563.7/35

In: 186.344 $\pm$ 0.028 χ^2/NDF : 1865002.0/39

Out: 191.735 $\pm$ 0.028 χ^2/NDF : 2189723.0/42

All: 189.028 $\pm$ 0.020 χ^2/NDF : 4073363.1/82

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -485.036 ± 88.788 $\chi^2/\text{NDF}: 285.3/16$

Left Out: 272.921 ± 54.087 $\chi^2/\text{NDF}: 1332.5/23$

Right Out: -840.594 ± 82.233 $\chi^2/\text{NDF}: 438.2/18$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -63.018 ± 37.504 $\chi^2/\text{NDF}: 3207.9/46$

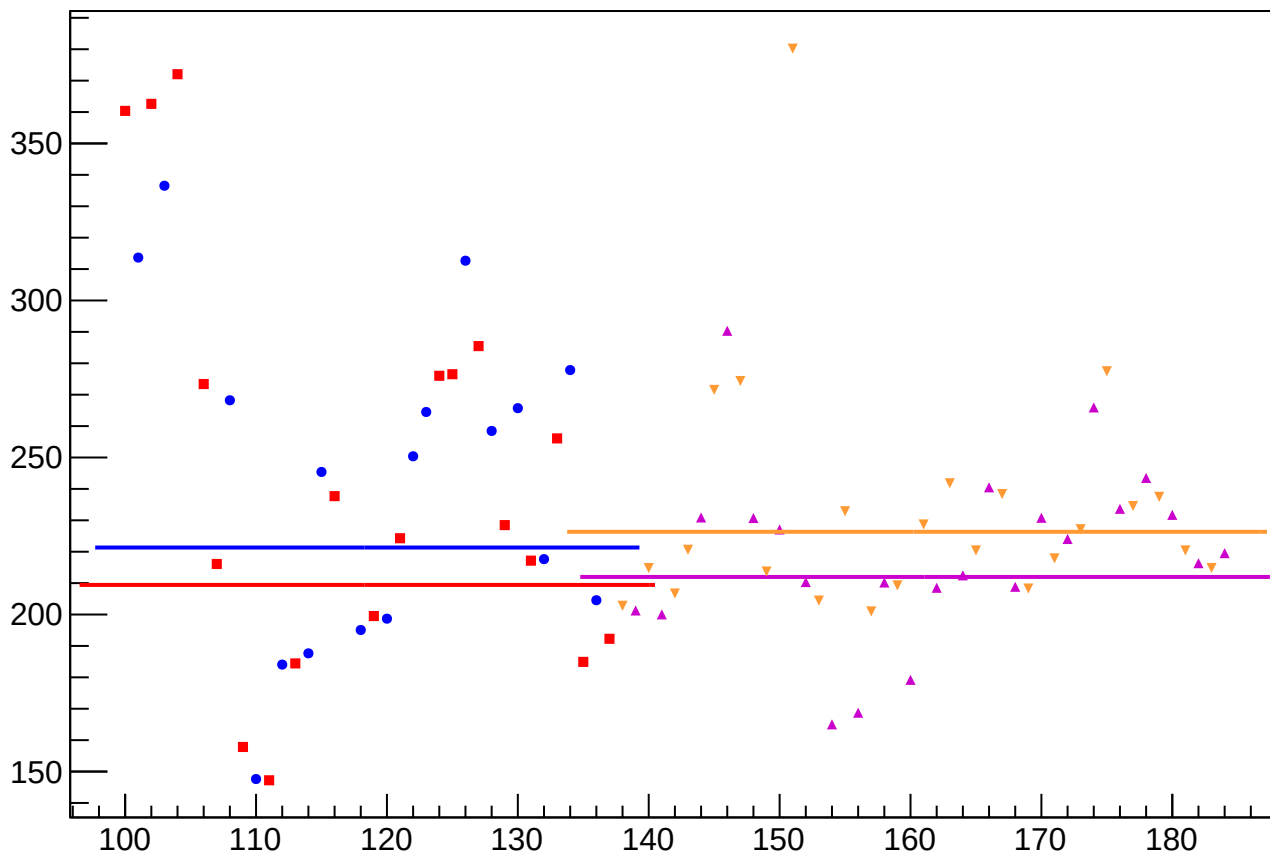
Right: -676.425 ± 60.332 $\chi^2/\text{NDF}: 732.1/35$

In: -402.489 ± 44.902 $\chi^2/\text{NDF}: 2087.5/39$

Out: -63.329 ± 45.188 $\chi^2/\text{NDF}: 1898.7/42$

All: -233.985 ± 31.851 $\chi^2/\text{NDF}: 4014.6/82$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339+/-0.063 χ^2/NDF : 645507.4/16

Left Out: 226.344+/-0.038 χ^2/NDF : 521166.2/23

Right Out: 209.428+/-0.058 χ^2/NDF : 879292.0/18

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.881+/-0.027 χ^2/NDF : 1178847.7/46

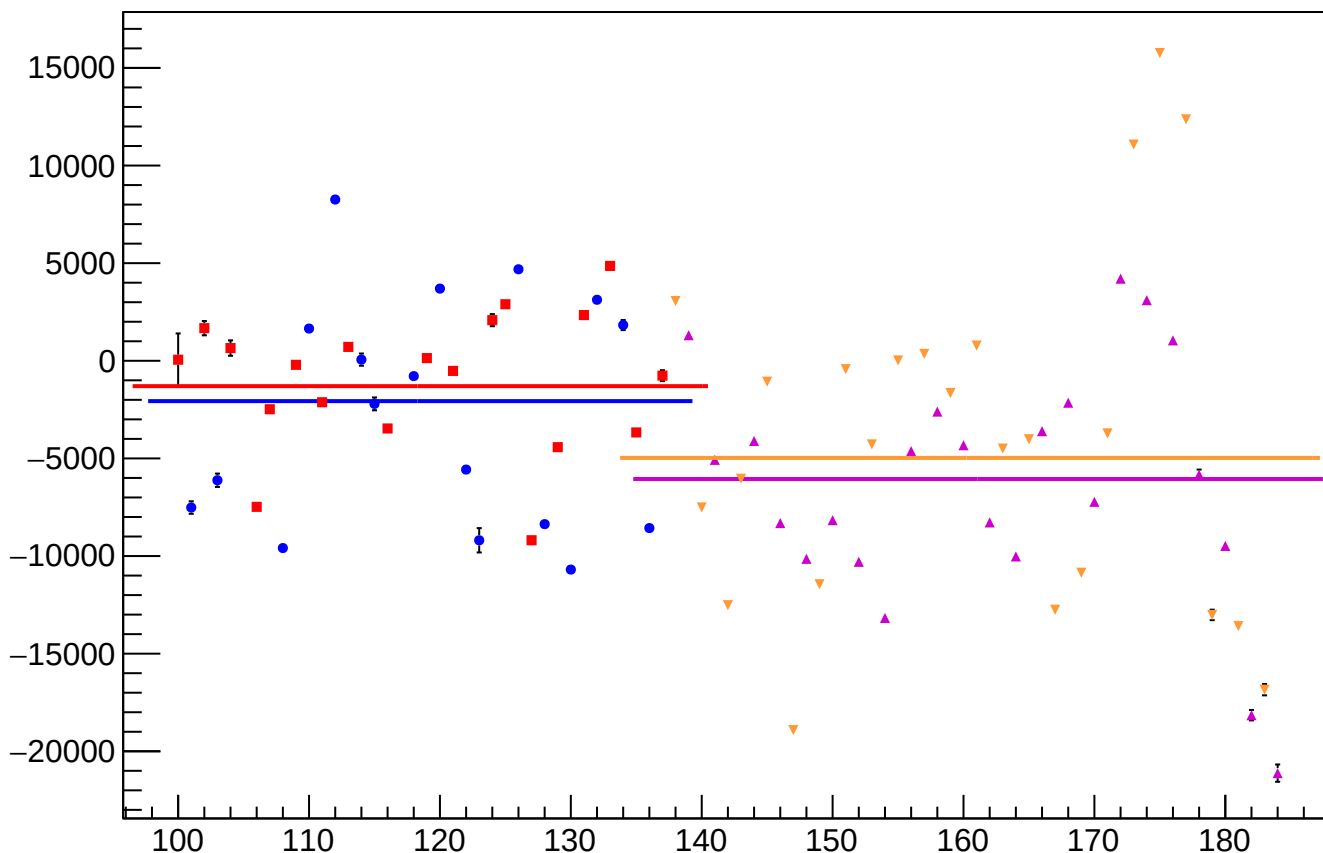
Right: 214.927+/-0.043 χ^2/NDF : 1544173.7/35

In: 214.366+/-0.032 χ^2/NDF : 1246424.7/39

Out: 221.236+/-0.032 χ^2/NDF : 1459535.5/42

All: 217.779+/-0.023 χ^2/NDF : 2729216.8/82

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 ± 47.407 $\chi^2/\text{NDF}: 16535.7/16$

Left Out: -4974.129 ± 33.934 $\chi^2/\text{NDF}: 53452.9/23$

Right Out: -1298.632 ± 44.980 $\chi^2/\text{NDF}: 5909.5/18$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5497.187 ± 24.362 $\chi^2/\text{NDF}: 71533.5/46$

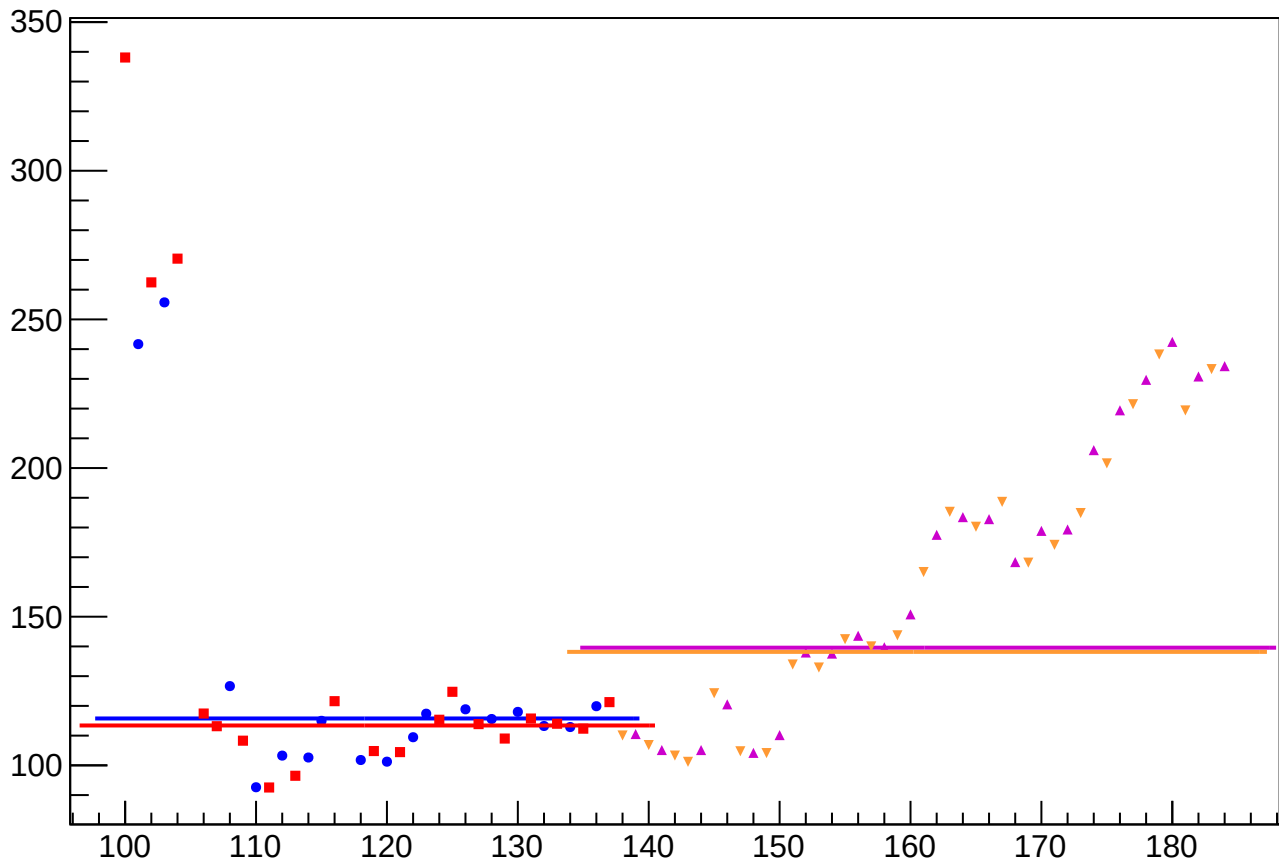
Right: -1661.949 ± 32.630 $\chi^2/\text{NDF}: 22582.8/35$

In: -4646.764 ± 28.156 $\chi^2/\text{NDF}: 38706.4/39$

Out: -3640.995 ± 27.090 $\chi^2/\text{NDF}: 63617.6/42$

All: -4124.463 ± 19.521 $\chi^2/\text{NDF}: 102986.6/81$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768+/-0.034 χ^2/NDF : 743657.8/16

Left Out: 138.168+/-0.024 χ^2/NDF :2458827.2/23

Right Out: 113.410+/-0.032 χ^2/NDF : 795303.3/18

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.851+/-0.017 χ^2/NDF : 4874158.5/46

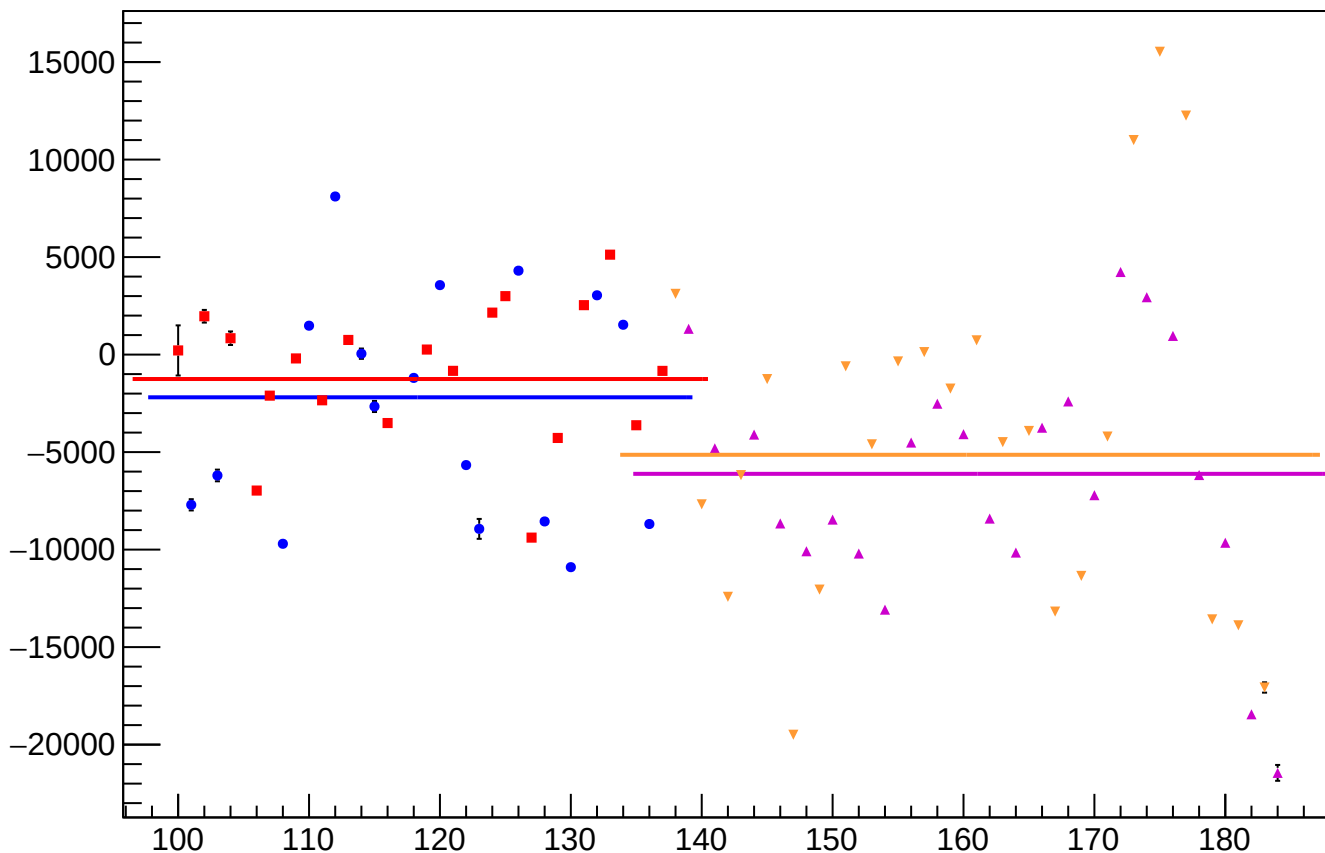
Right: 114.527+/-0.023 χ^2/NDF : 1541564.1/35

In: 131.179+/-0.020 χ^2/NDF :3483854.6/39

Out: 129.188+/-0.019 χ^2/NDF :3640277.6/42

All: 130.145+/-0.014 χ^2/NDF : 7129322.7/82

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2190.242+/-40.008 χ^2/NDF : 22811.0/16

Left Out: -5138.161+/-30.824 χ^2/NDF : 63186.5/23

Right Out: -1252.225+/-38.029 χ^2/NDF : 8581.9/18

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5606.348+/-22.242 χ^2/NDF : 84928.6/46

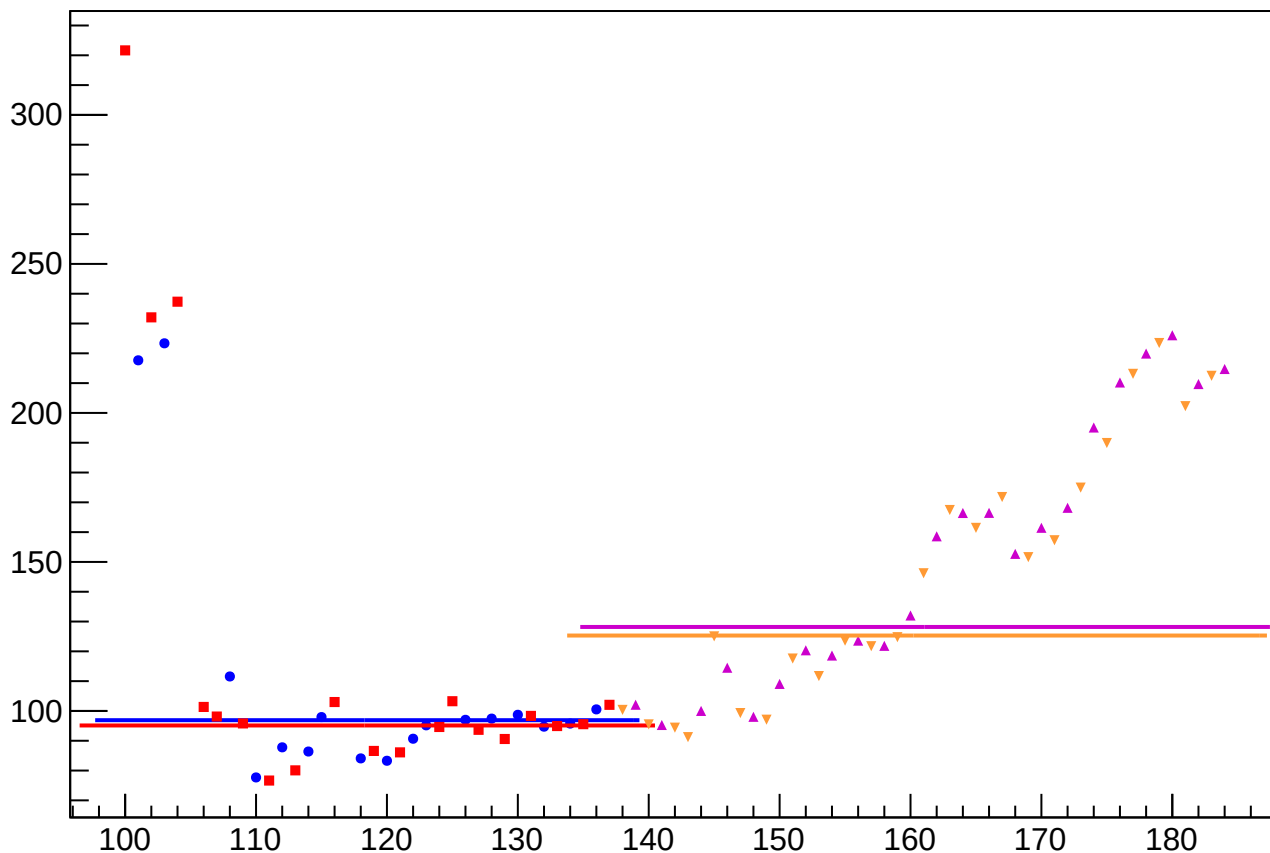
Right: -1697.452+/-27.564 χ^2/NDF : 31681.6/35

In: -4576.389+/-25.050 χ^2/NDF : 49922.4/39

Out: -3597.391+/-23.946 χ^2/NDF : 78069.9/42

All: -4064.850+/-17.309 χ^2/NDF : 128790.5/8

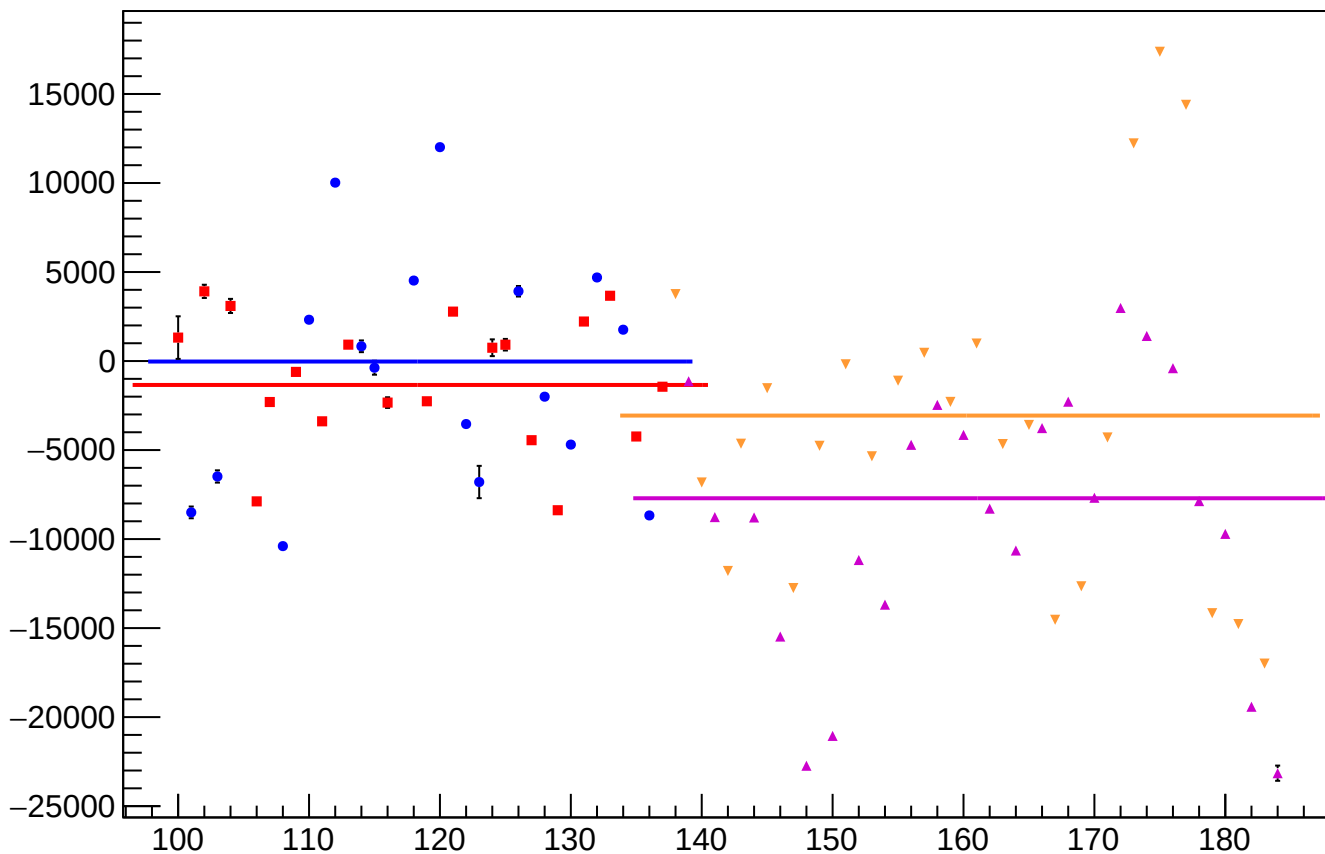
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.898+/-0.028 χ^2/NDF : 817255.1/16
 Left Out: 125.306+/-0.022 χ^2/NDF : 2505133.2/23
 Right Out: 95.130+/-0.027 χ^2/NDF : 858457.3/18
 Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.685+/-0.016 χ^2/NDF : 4846468.0/46
 Right: 95.969+/-0.019 χ^2/NDF : 1677765.8/35
 In: 115.919+/-0.018 χ^2/NDF : 3893775.5/39
 Out: 113.341+/-0.017 χ^2/NDF : 4123582.6/42
 All: 114.572+/-0.012 χ^2/NDF : 8028431.4/82

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -27.457 ± 54.732 $\chi^2/\text{NDF}: 16364.6/16$

Left Out: -3062.648 ± 40.867 $\chi^2/\text{NDF}: 35349.6/23$

Right Out: -1343.122 ± 52.343 $\chi^2/\text{NDF}: 3846.7/18$

Left In: -7707.068 ± 42.990 $\chi^2/\text{NDF}: 21268.3/22$

Left: -5267.361 ± 29.619 $\chi^2/\text{NDF}: 62748.9/46$

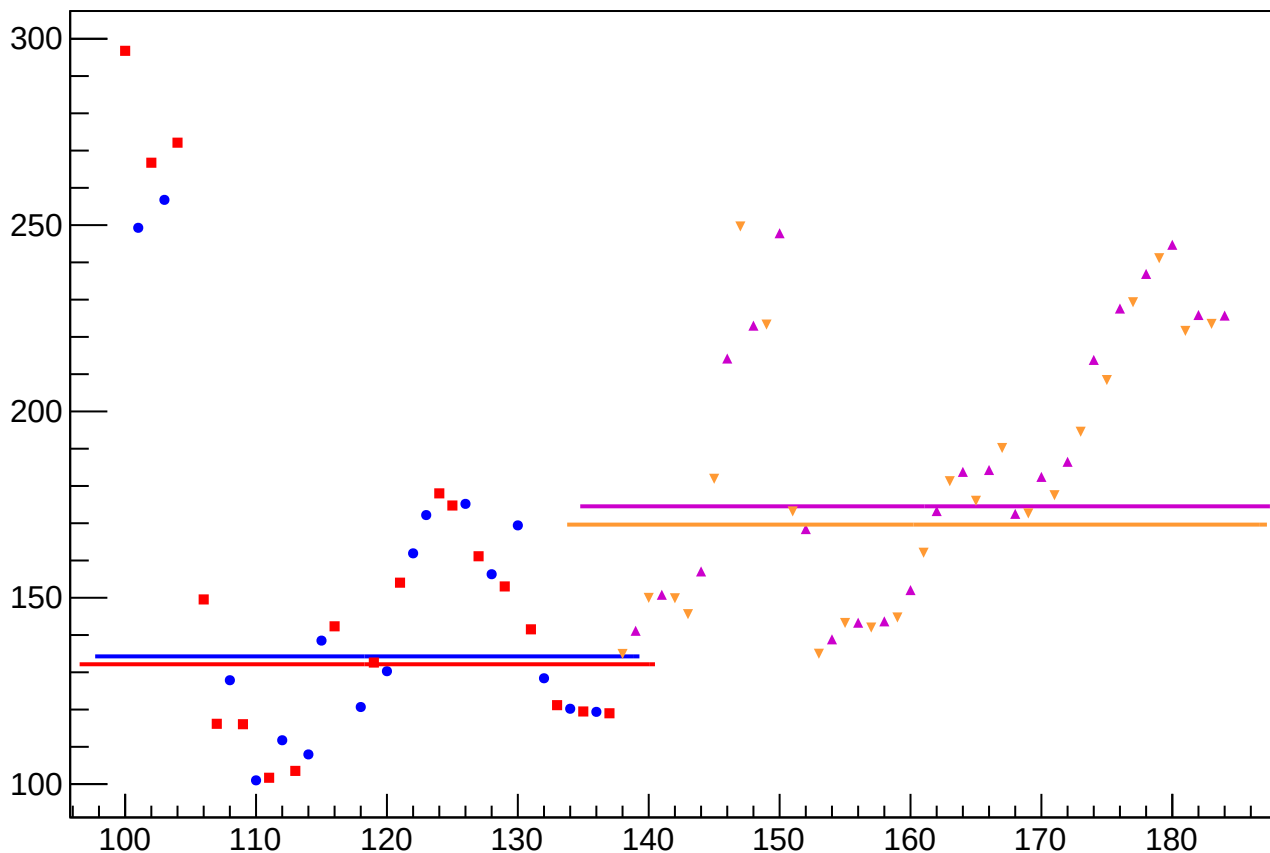
Right: -714.627 ± 37.829 $\chi^2/\text{NDF}: 20513.1/35$

In: -4776.905 ± 33.808 $\chi^2/\text{NDF}: 49808.7/39$

Out: -2411.434 ± 32.212 $\chi^2/\text{NDF}: 39866.8/42$

All: -3537.024 ± 23.321 $\chi^2/\text{NDF}: 92241.5/82$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.270 $\pm$ 0.039 χ^2 /NDF: 787098.5/16

Left Out: 169.632 $\pm$ 0.029 χ^2 /NDF: 1217057.9/23

Right Out: 132.155 $\pm$ 0.037 χ^2 /NDF: 865020.1/18

Left In: 174.539 $\pm$ 0.030 χ^2 /NDF: 1210071.2/22

Left: 171.962 $\pm$ 0.021 χ^2 /NDF: 2440816.9/46

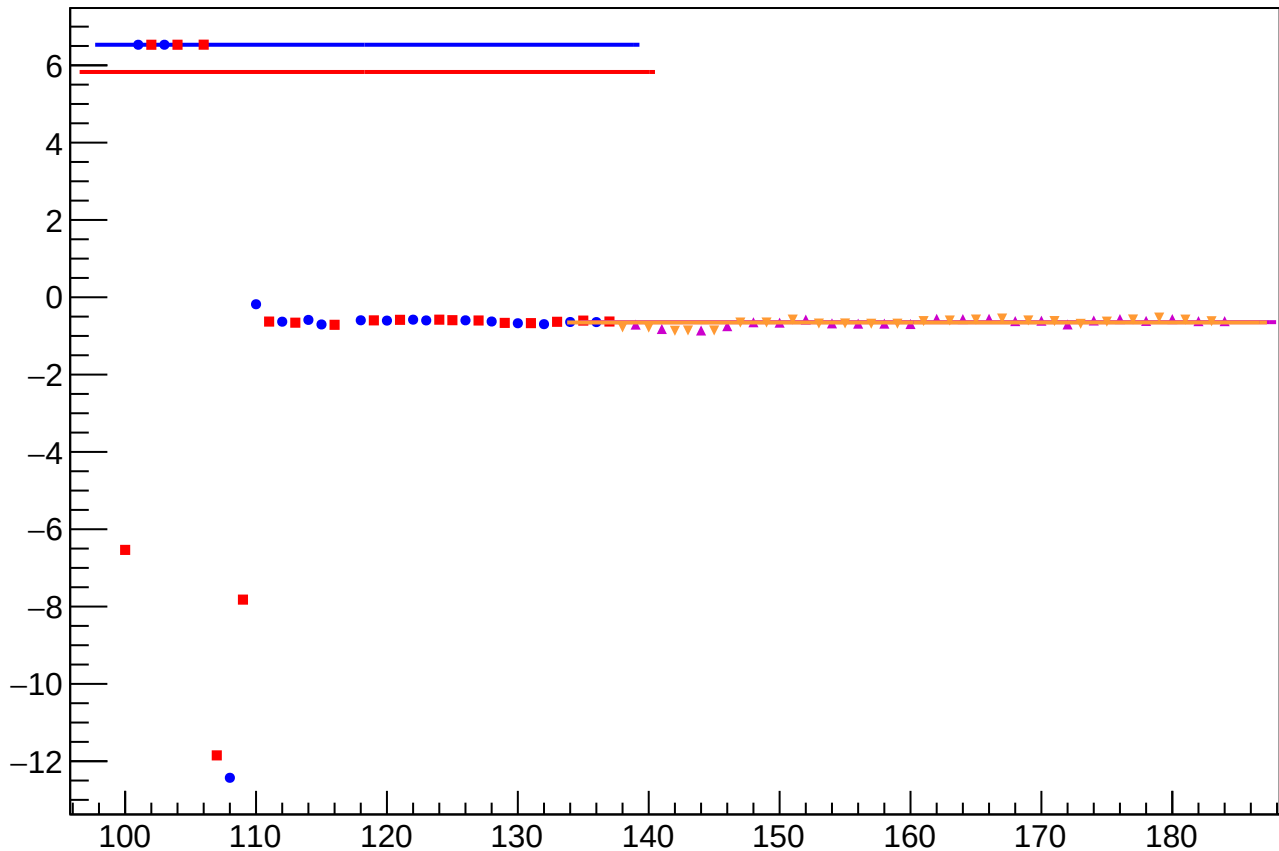
Right: 133.165 $\pm$ 0.027 χ^2 /NDF: 1653679.5/35

In: 159.175 $\pm$ 0.024 χ^2 /NDF: 2666730.4/39

Out: 155.439 $\pm$ 0.023 χ^2 /NDF: 2719082.1/42

All: 157.216 $\pm$ 0.016 χ^2 /NDF: 5398612.7/82

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127565119308.7/16

Left Out: -0.652+/-0.000 χ^2/NDF : 171265827.4/23

Right Out: 5.827+/-0.000 χ^2/NDF : 755947318870738.2/18

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.648+/-0.000 χ^2/NDF : 294711335.3/46

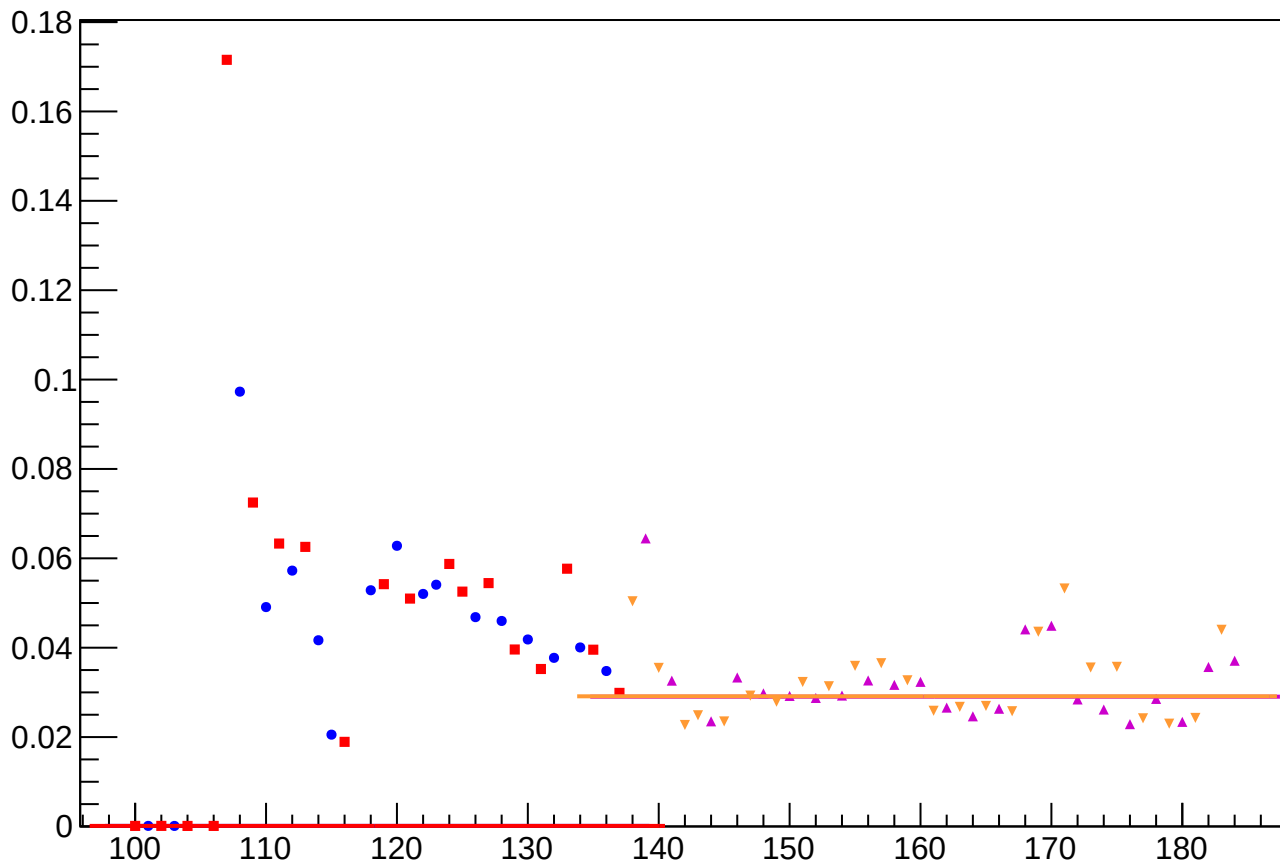
Right: 6.155+/-0.000 χ^2/NDF : 776078051369928.0/46

In: 6.530+/-0.000 χ^2/NDF : 952912537188.0/39

Out: 5.826+/-0.000 χ^2/NDF : 756643497519953.9/46

All: 6.153+/-0.000 χ^2/NDF : 7775872679454.0/92

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9008104.3/16

Left Out: 0.029+/-0.000 χ^2/NDF :1425250.1/23

Right Out: 0.000+/-0.000 χ^2/NDF : 9347467.6/18

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2589399.5/46

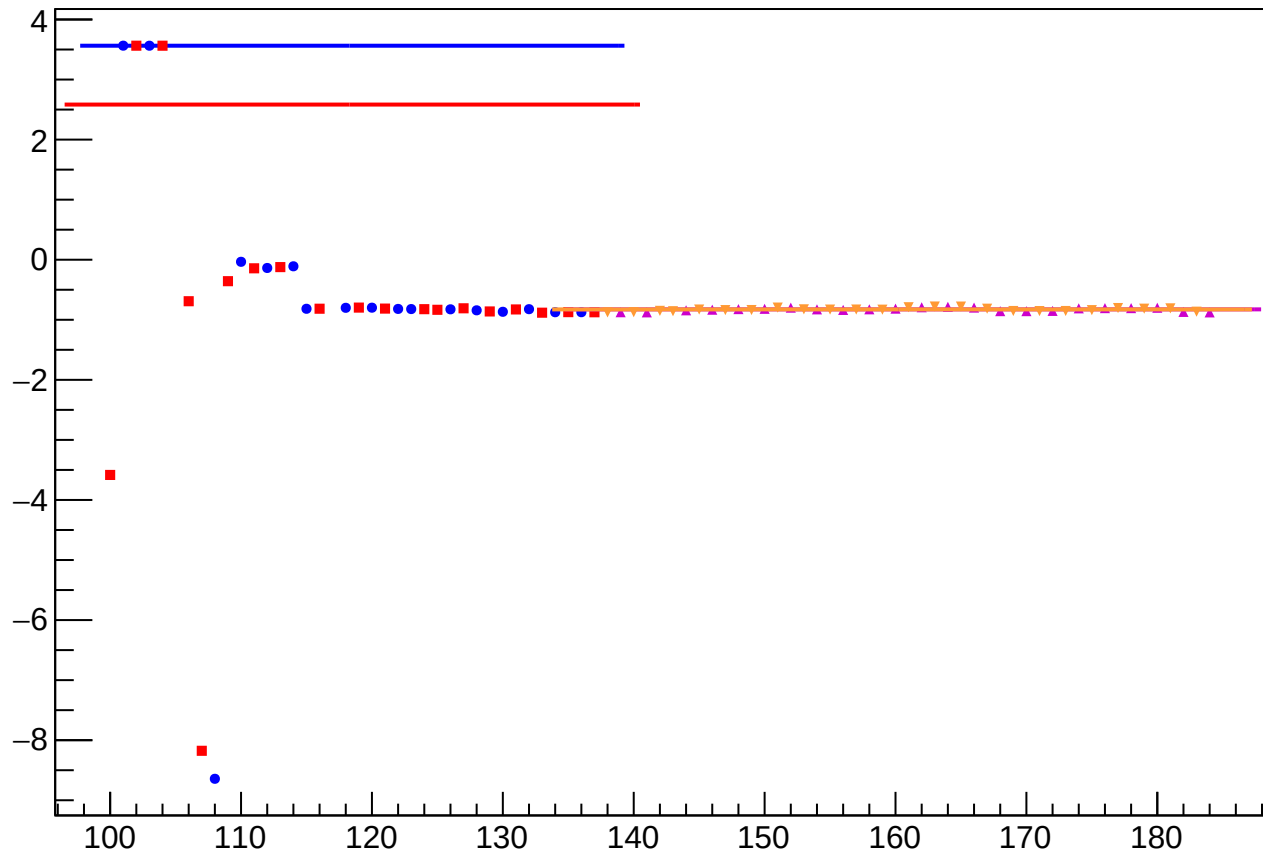
Right: 0.000+/-0.000 χ^2/NDF : 18355822.2/35

In: 0.000+/-0.000 χ^2/NDF :36969810.2/39

Out: 0.000+/-0.000 χ^2/NDF :38658603.2/42

All: 0.000+/-0.000 χ^2/NDF : 75628866.5/82

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 485019512048.0/16

Left Out: -0.827+/-0.000 χ^2/NDF : 165278140.5/23

Right Out: 2.583+/-0.000 χ^2/NDF : 1253504623679499.2/18

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 337957146.1/46

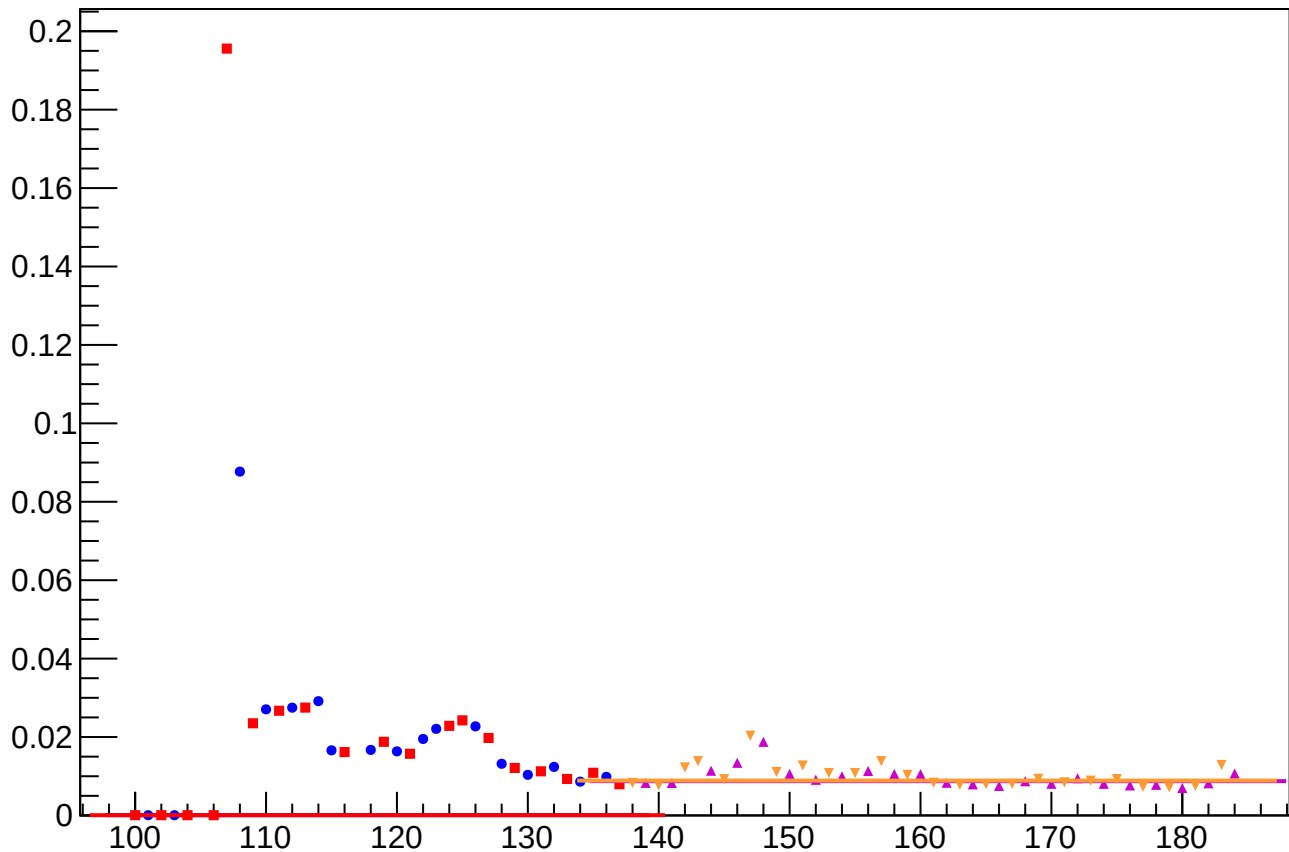
Right: 3.040+/-0.000 χ^2/NDF : 1382260831198329.0

In: 3.560+/-0.000 χ^2/NDF : 4130772938686.2/39

Out: 2.581+/-0.000 χ^2/NDF : 1255698560498672.5

All: 3.038+/-0.000 χ^2/NDF : 13879108815522.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9814021.8/16

Left Out: 0.009+/-0.000 χ^2/NDF :1433508.1/23

Right Out: 0.000+/-0.000 χ^2/NDF : 9837255.2/18

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2479255.6/46

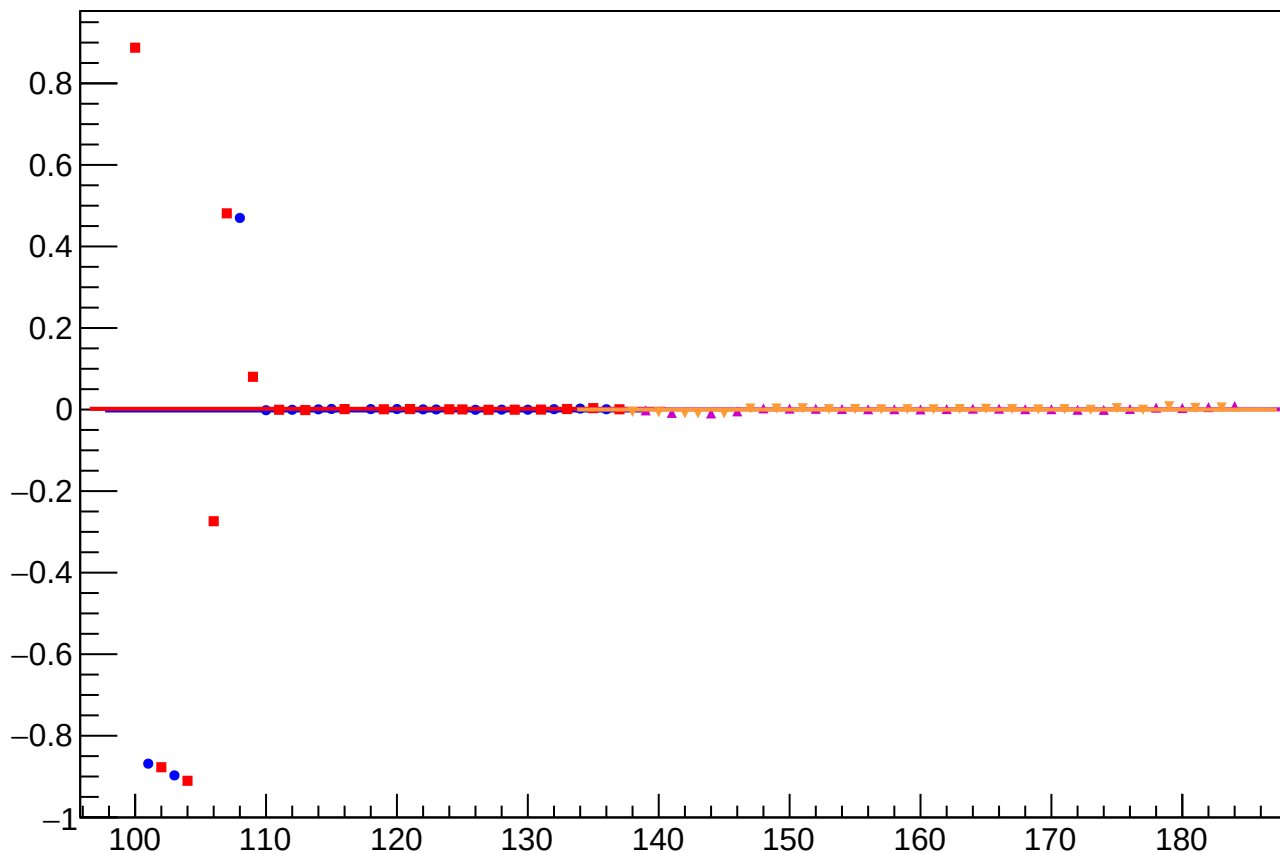
Right: 0.000+/-0.000 χ^2/NDF : 19651558.2/35

In: 0.000+/-0.000 χ^2/NDF :39350176.7/39

Out: 0.000+/-0.000 χ^2/NDF :40672063.6/42

All: 0.000+/-0.000 χ^2/NDF : 80023080.2/82

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000 $\chi^2/\text{NDF}: 9795455603.3/16$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 144509063.7/23$

Right Out: 0.002 ± 0.000 $\chi^2/\text{NDF}: 3041330797.2/18$

Left In: 0.001 ± 0.000 $\chi^2/\text{NDF}: 101439617.3/22$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 247079787.9/46$

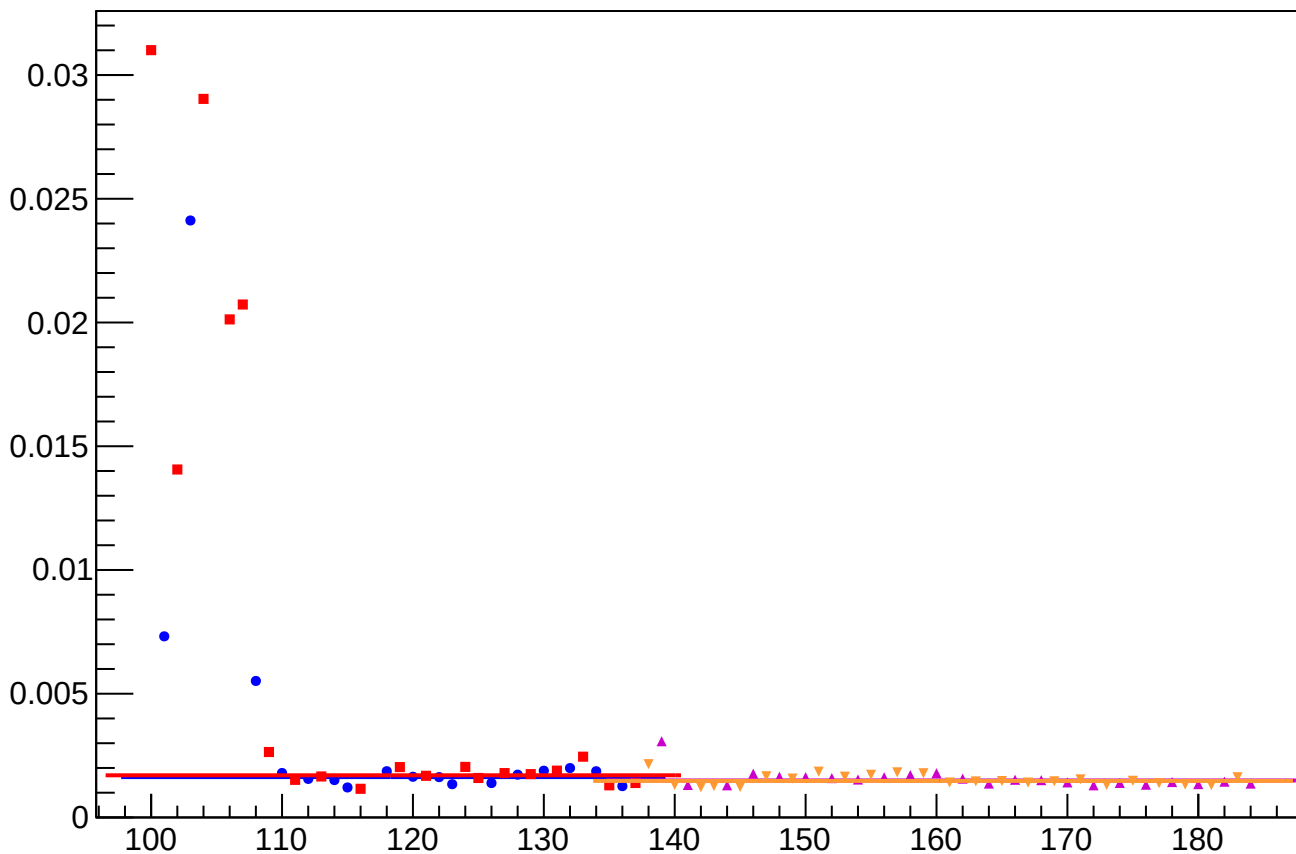
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 12850553248.4/35$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 9907915071.2/39$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3190124535.7/42$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 13098583882.0/80$

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1922148.8/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:518701.9/23

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3024458.4/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:626044.8/22

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1146919.4/46

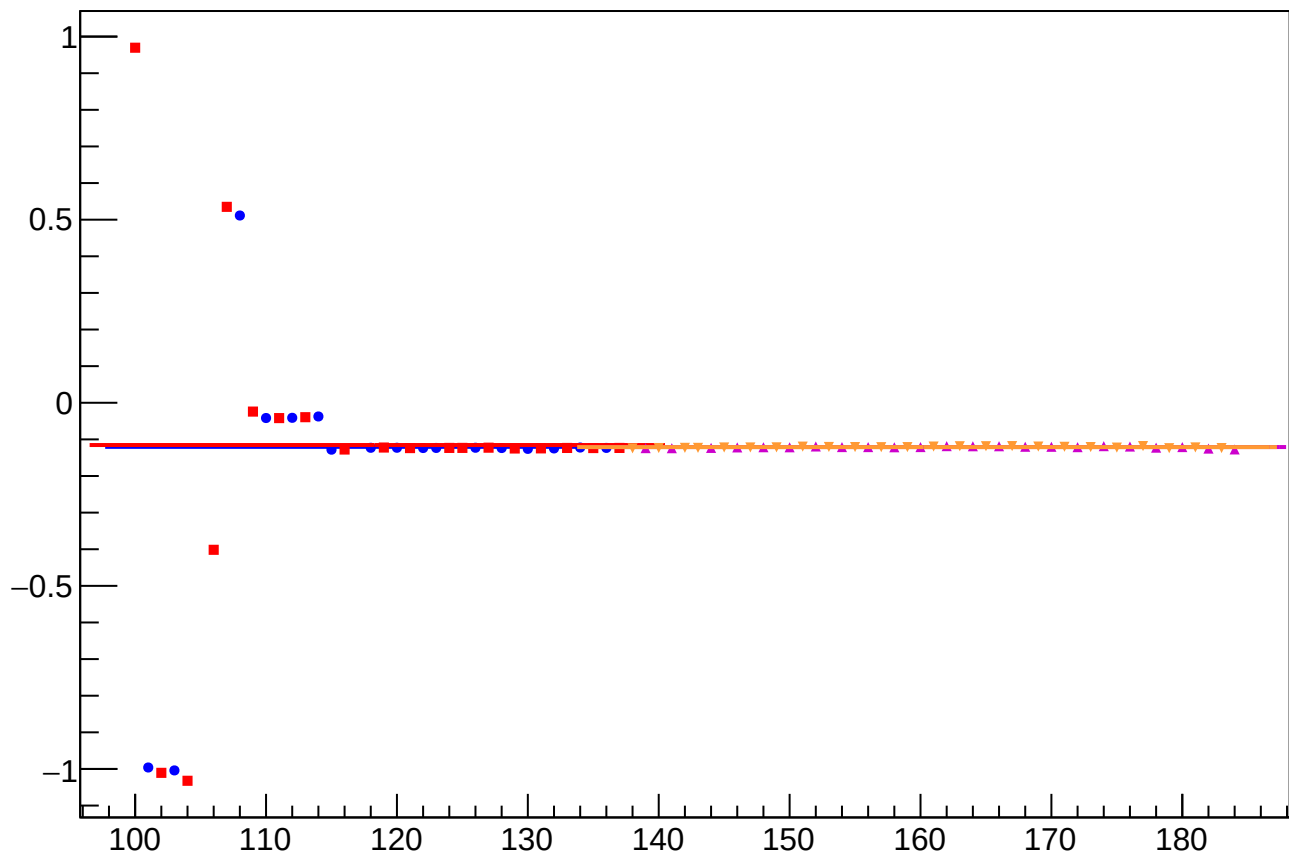
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4954975.3/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2598097.8/39

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3671550.6/42

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 6269861.4/82

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932772427.7/16

Left Out: -0.121+/-0.000 χ^2/NDF : 57382667.6/23

Right Out: -0.115+/-0.000 χ^2/NDF : 2456433698.5/18

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 109678761.7/46

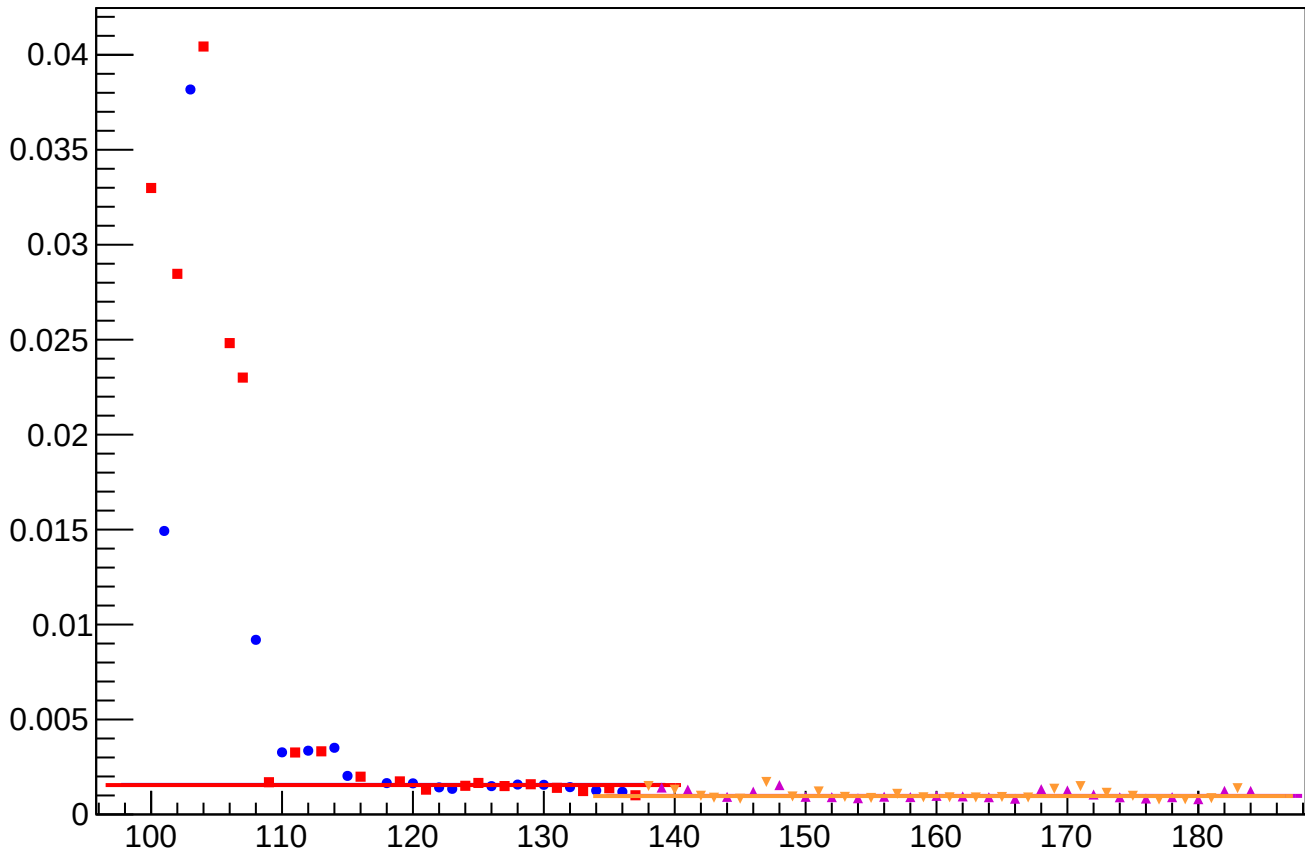
Right: -0.118+/-0.000 χ^2/NDF : 6412289085.1/35

In: -0.121+/-0.000 χ^2/NDF : 3985449148.7/39

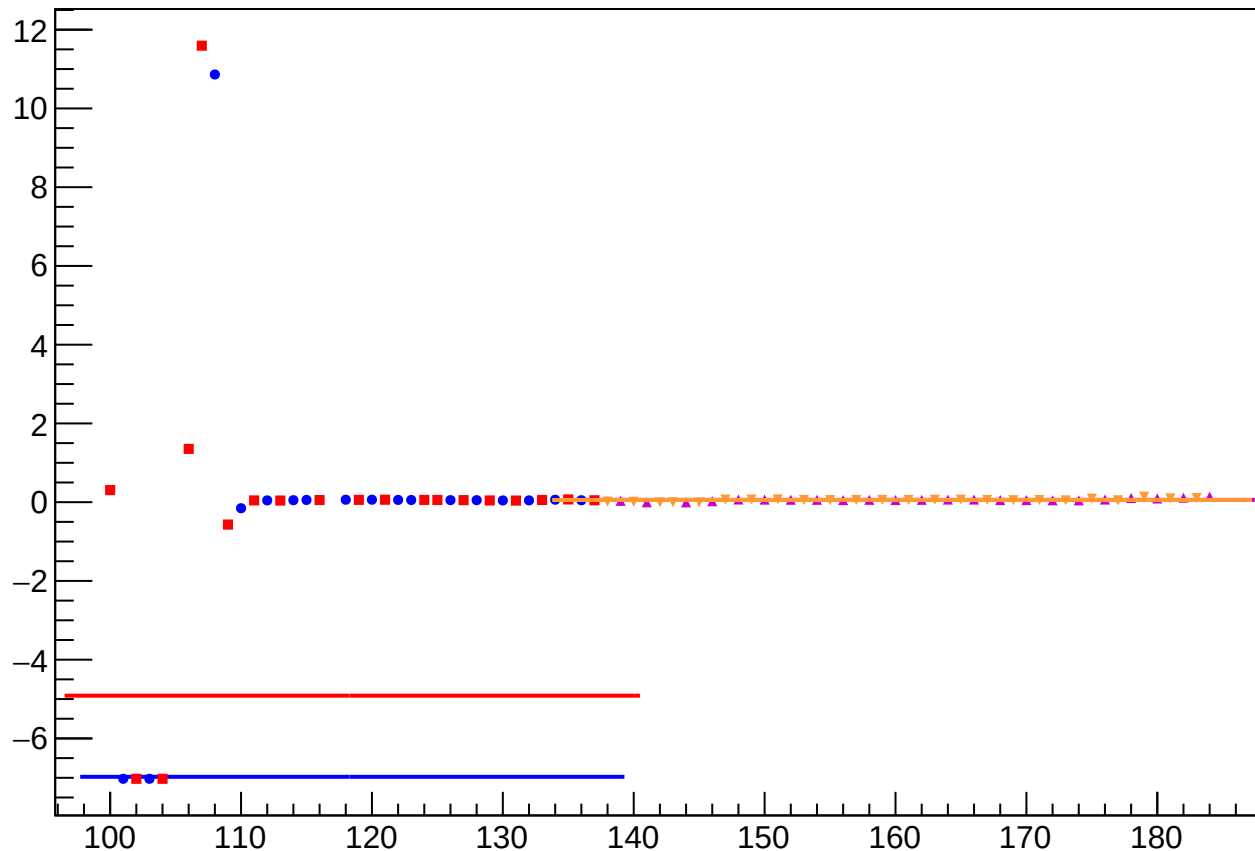
Out: -0.121+/-0.000 χ^2/NDF : 2568505354.2/42

All: -0.121+/-0.000 χ^2/NDF : 6555085991.3/8

yield_cav4cY_rms vs Slug, Sign Corrected

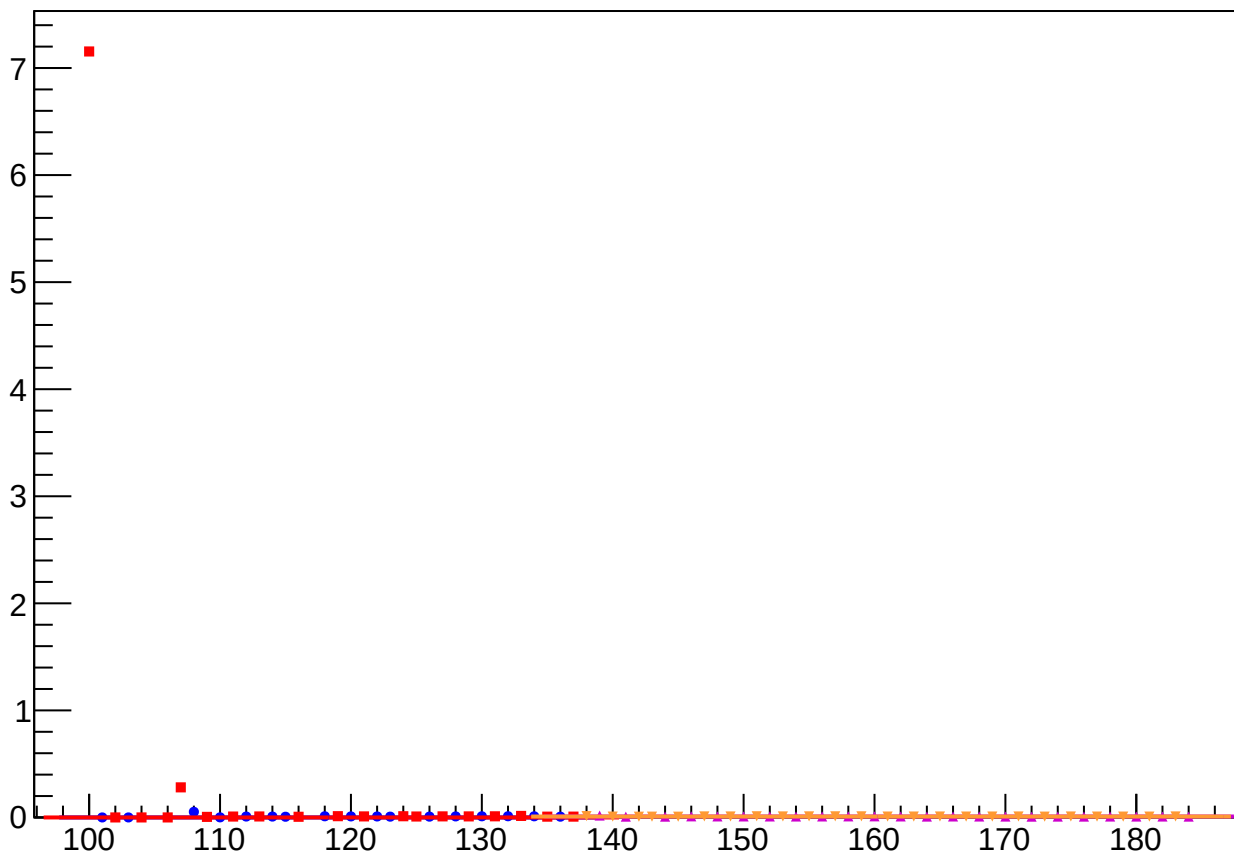


yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 $\pm$ 0.000 χ^2 /NDF: 8797358006083.6/16
 Left Out: 0.056 $\pm$ 0.000 χ^2 /NDF: 235604050.4/23
 Right Out: -4.914 $\pm$ 0.000 χ^2 /NDF: 365352656389636.4/18
 Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 178541521.9/22
 Left: 0.057 $\pm$ 0.000 χ^2 /NDF: 415228349.5/46
 Right: -5.900 $\pm$ 0.000 χ^2 /NDF: 430333266539126.9
 In: -6.926 $\pm$ 0.000 χ^2 /NDF: 17552878453065.5/39
 Out: -4.880 $\pm$ 0.000 χ^2 /NDF: 370032292529089.5
 All: -5.859 $\pm$ 0.000 χ^2 /NDF: 4433373937314

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 8350428.8/16

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 488308.3/23

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 8775433.1/18

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 602517.2/22

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 1093809.8/46

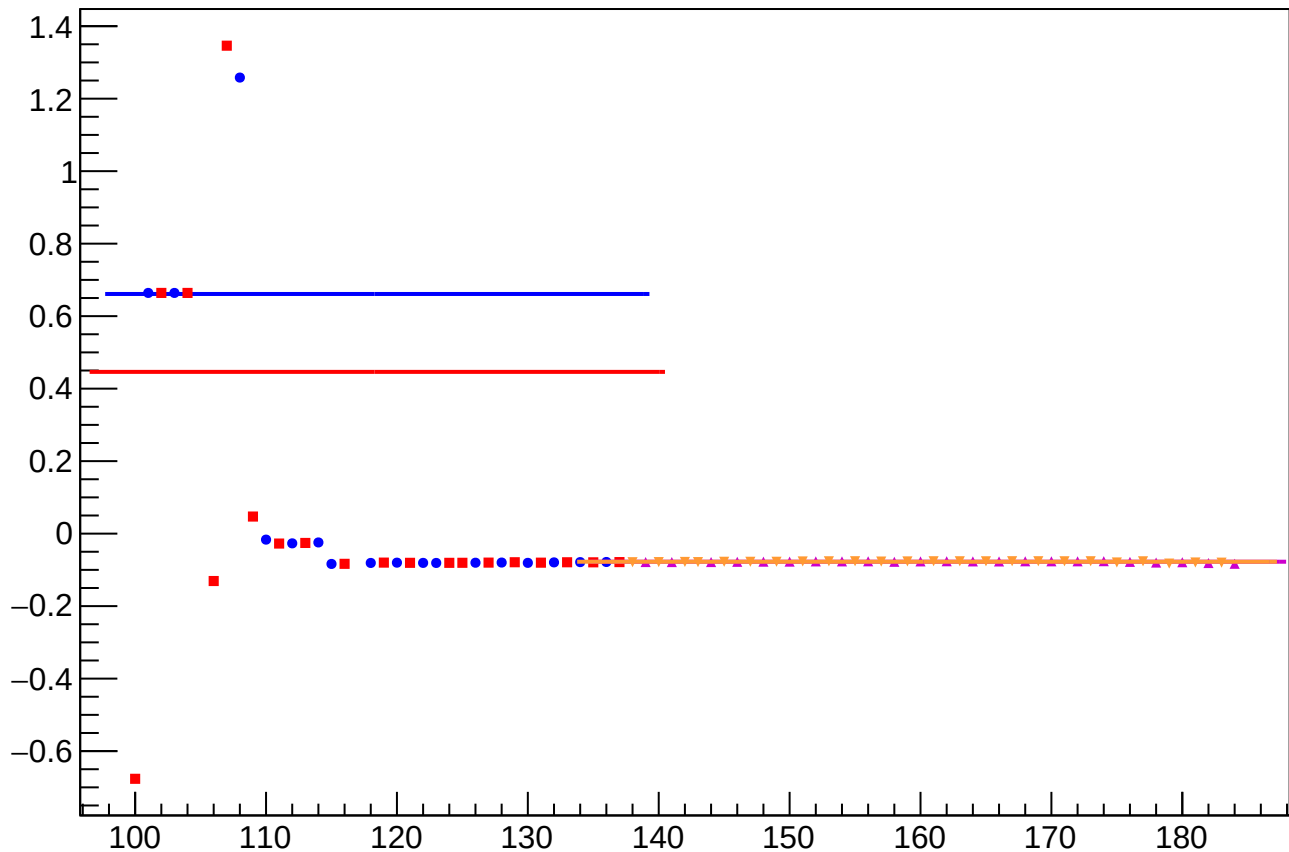
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 17126212.9/35

In: 0.000 $\pm$ 0.000 χ^2/NDF : 35769405.5/39

Out: 0.000 $\pm$ 0.000 χ^2/NDF : 37167295.4/42

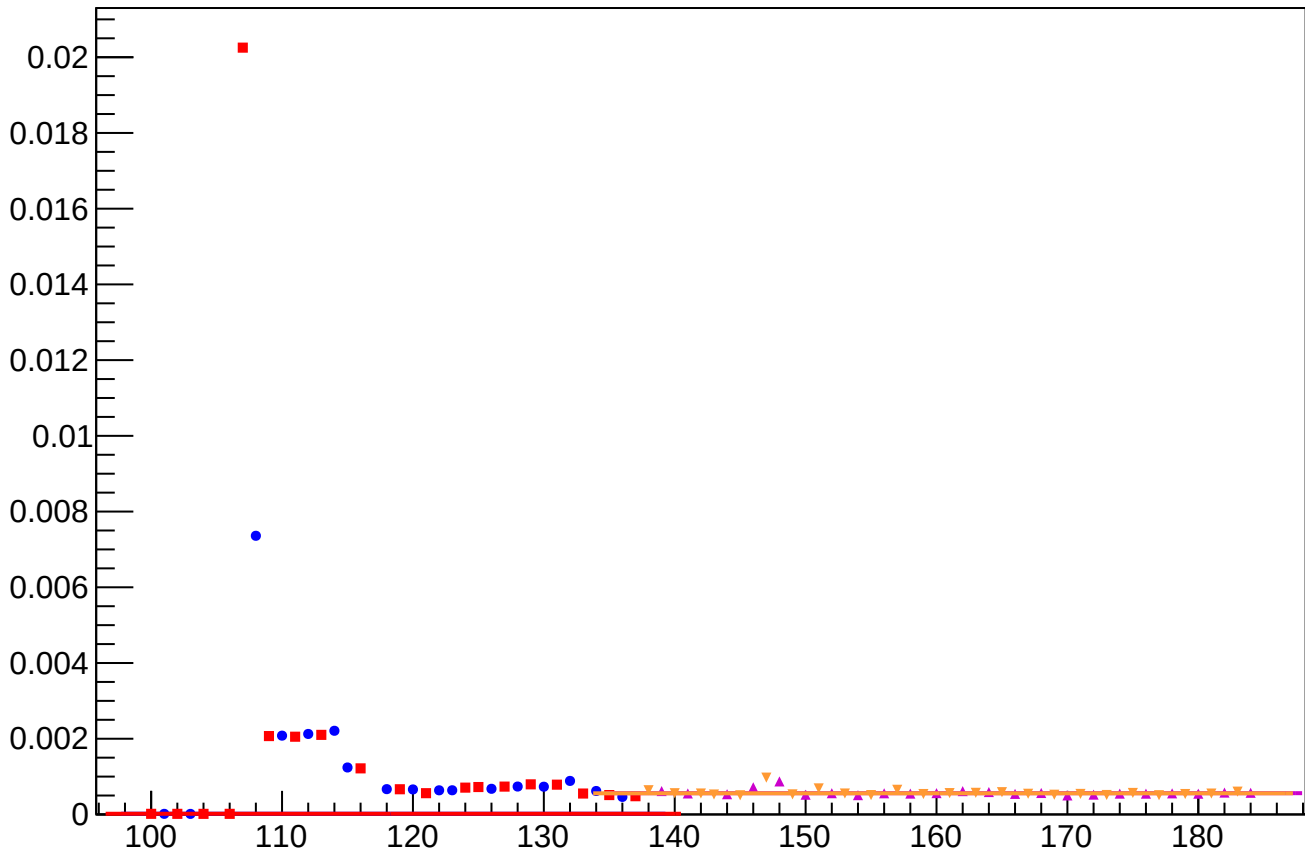
All: 0.000 $\pm$ 0.000 χ^2/NDF : 72937533.1/82

yield_cav4dY_mean vs Slug, Sign Corrected



Left: -0.078 +/- 0.000 χ^2/NDF : 266775282.0/46
 Right: 0.549 +/- 0.000 χ^2/NDF : 474000383494468.1
 In: 0.647 +/- 0.000 χ^2/NDF : 33699407381732.8/39
 Out: 0.436 +/- 0.000 χ^2/NDF : 420249995860349.3/4
 All: 0.537 +/- 0.000 χ^2/NDF : 51535957123134

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 9958320.7/16

Left Out: 0.001+/-0.000

χ^2/NDF : 463780.4/23

Right Out: 0.000+/-0.000

χ^2/NDF : 9460895.3/18

Left In: 0.001+/-0.000

χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000

χ^2/NDF : 819973.3/46

Right: 0.000+/-0.000

χ^2/NDF : 19419231.6/35

In: 0.000+/-0.000

χ^2/NDF : 40691458.2/39

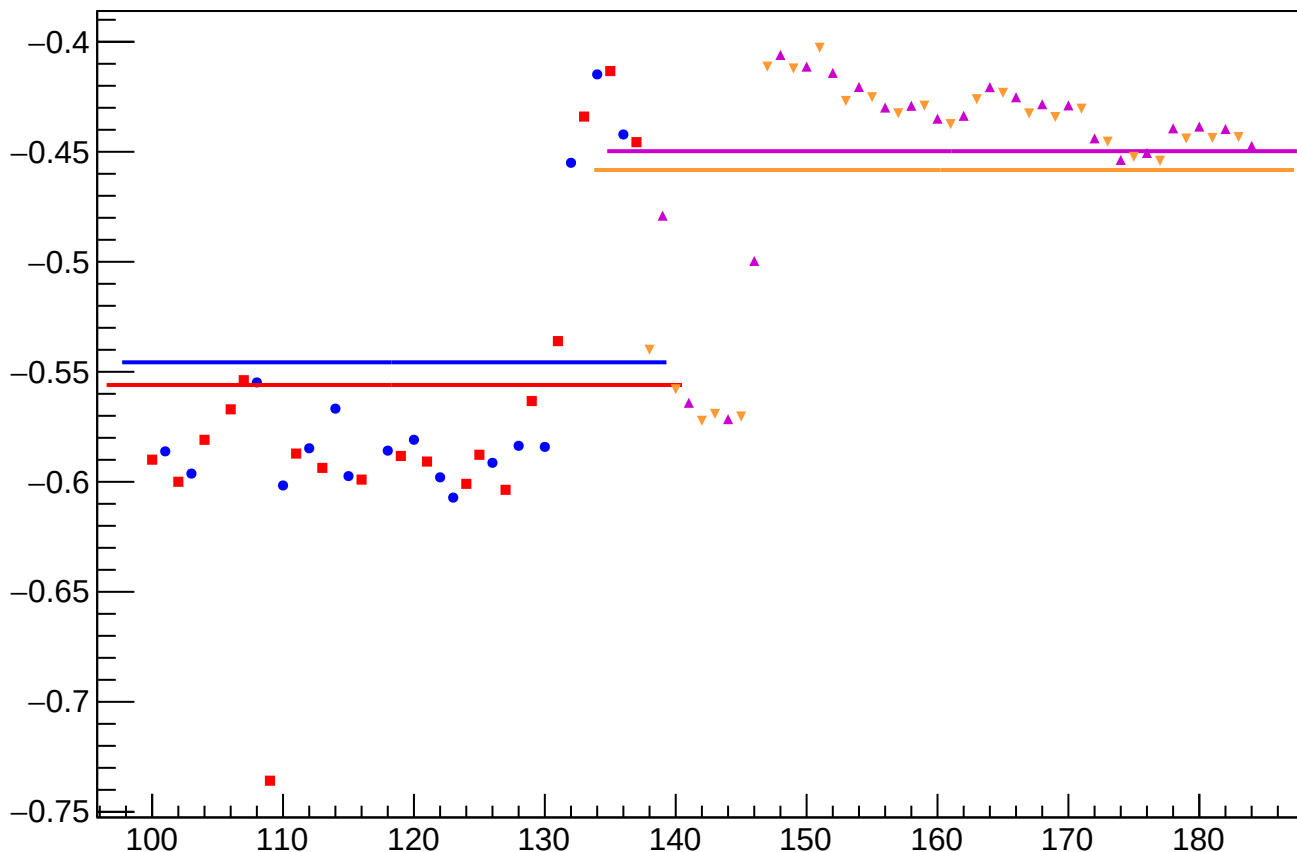
Out: 0.000+/-0.000

χ^2/NDF : 41448276.3/42

All: 0.000+/-0.000

χ^2/NDF : 82140628.7/82

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546+/-0.000 χ^2/NDF : 46331446.0/16

Left Out: -0.458+/-0.000 χ^2/NDF : 108067430.4/23

Right Out: -0.556+/-0.000 χ^2/NDF : 64058429.8/18

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.454+/-0.000 χ^2/NDF : 185580776.9/46

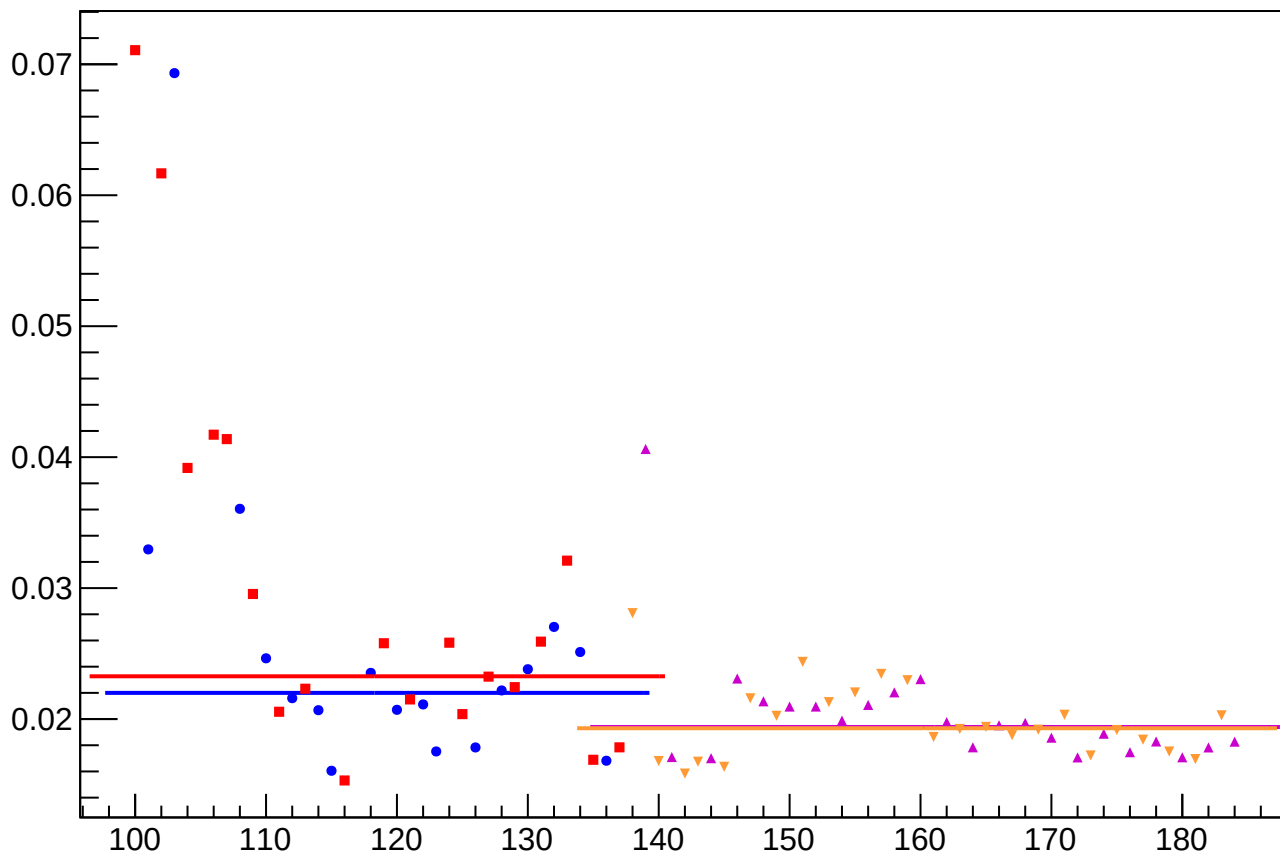
Right: -0.551+/-0.000 χ^2/NDF : 110929363.5/35

In: -0.471+/-0.000 χ^2/NDF : 198006533.2/39

Out: -0.478+/-0.000 χ^2/NDF : 247102994.2/42

All: -0.474+/-0.000 χ^2/NDF : 446280758.2/82

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 959677.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 478257.7/23

Right Out: 0.023+/-0.000 χ^2/NDF : 1155060.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1105052.2/46

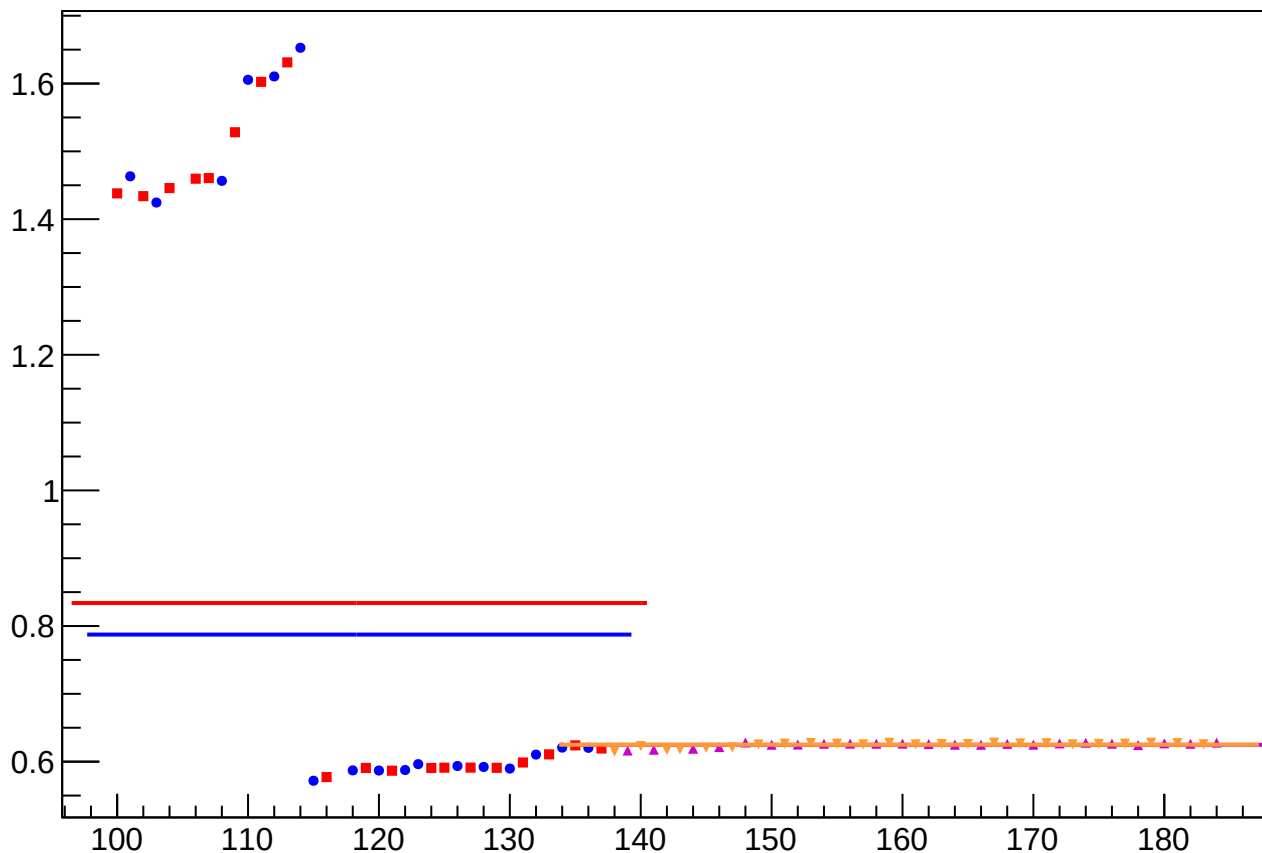
Right: 0.023+/-0.000 χ^2/NDF : 2131038.0/35

In: 0.020+/-0.000 χ^2/NDF : 1697514.5/39

Out: 0.020+/-0.000 χ^2/NDF : 1880598.0/42

All: 0.020+/-0.000 χ^2/NDF : 3578865.3/82

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.787+/-0.000 χ^2/NDF : 3581416919.1/16

Left Out: 0.625+/-0.000 χ^2/NDF : 1387232.3/23

Right Out: 0.834+/-0.000 χ^2/NDF : 4150651936.4/18

Left In: 0.625+/-0.000 χ^2/NDF : 1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2532334.9/46

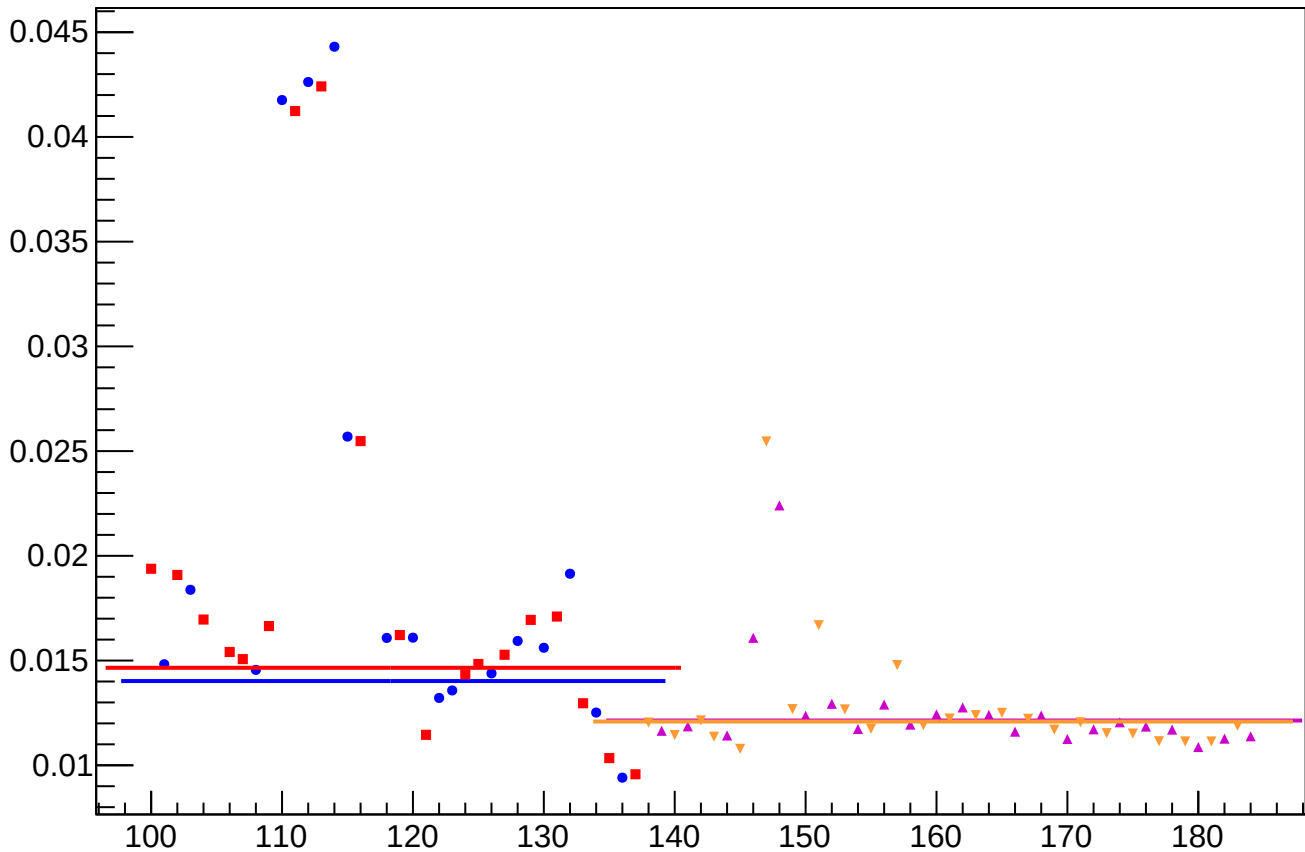
Right: 0.810+/-0.000 χ^2/NDF : 7762825893.7/35

In: 0.658+/-0.000 χ^2/NDF : 4189391063.9/39

Out: 0.665+/-0.000 χ^2/NDF : 5138416004.1/42

All: 0.661+/-0.000 χ^2/NDF : 9331441582.9/82

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1399935.4/16

Left Out: 0.012+/-0.000 χ^2/NDF : 654603.3/23

Right Out: 0.015+/-0.000 χ^2/NDF : 1262071.4/18

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1143239.1/46

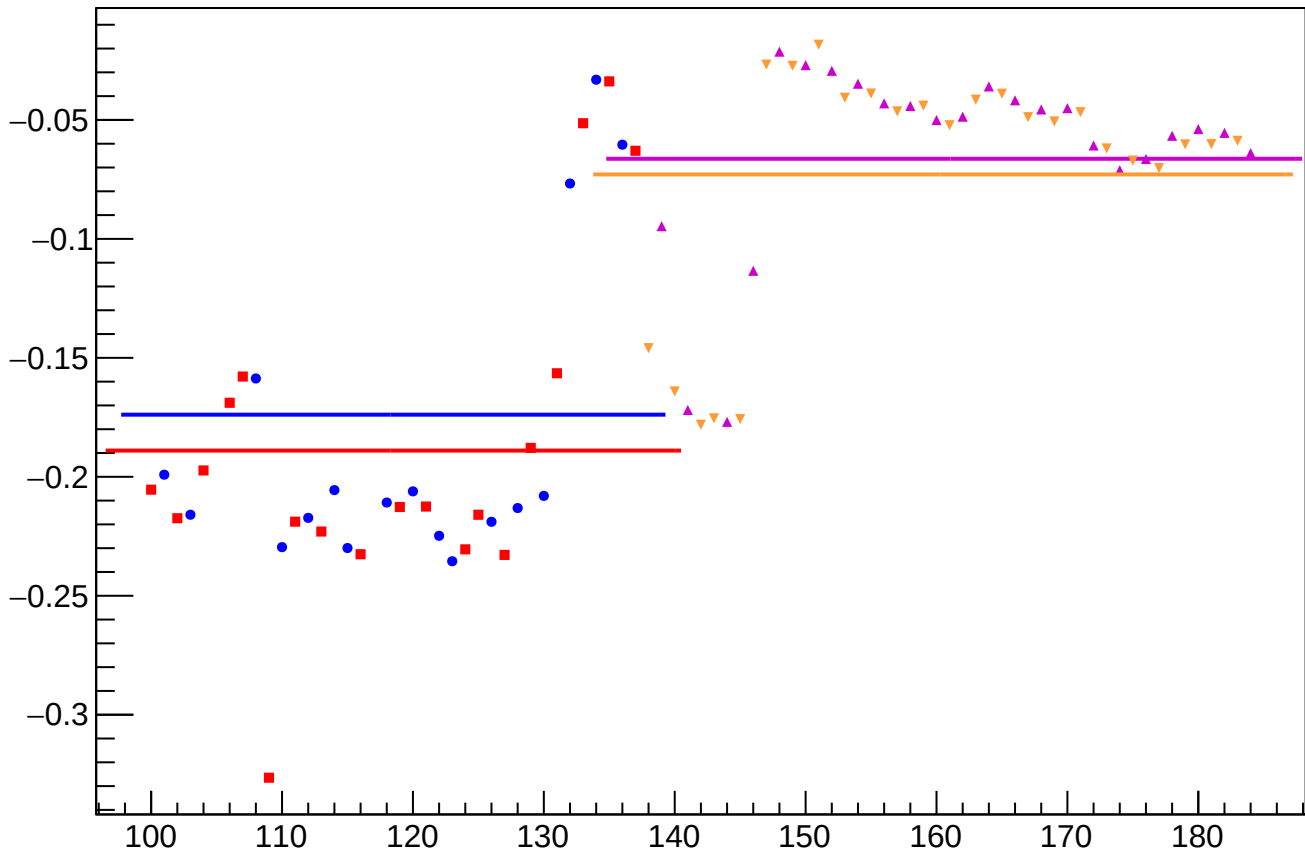
Right: 0.014+/-0.000 χ^2/NDF : 2673402.9/35

In: 0.013+/-0.000 χ^2/NDF : 2051353.4/39

Out: 0.013+/-0.000 χ^2/NDF : 2214210.7/42

All: 0.013+/-0.000 χ^2/NDF : 4266078.2/82

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174 ± 0.000 $\chi^2/\text{NDF}: 66778428.3/16$

Left Out: -0.073 ± 0.000 $\chi^2/\text{NDF}: 102177580.7/23$

Right Out: -0.189 ± 0.000 $\chi^2/\text{NDF}: 81975900.9/18$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76243051.8/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 179253941.2/46$

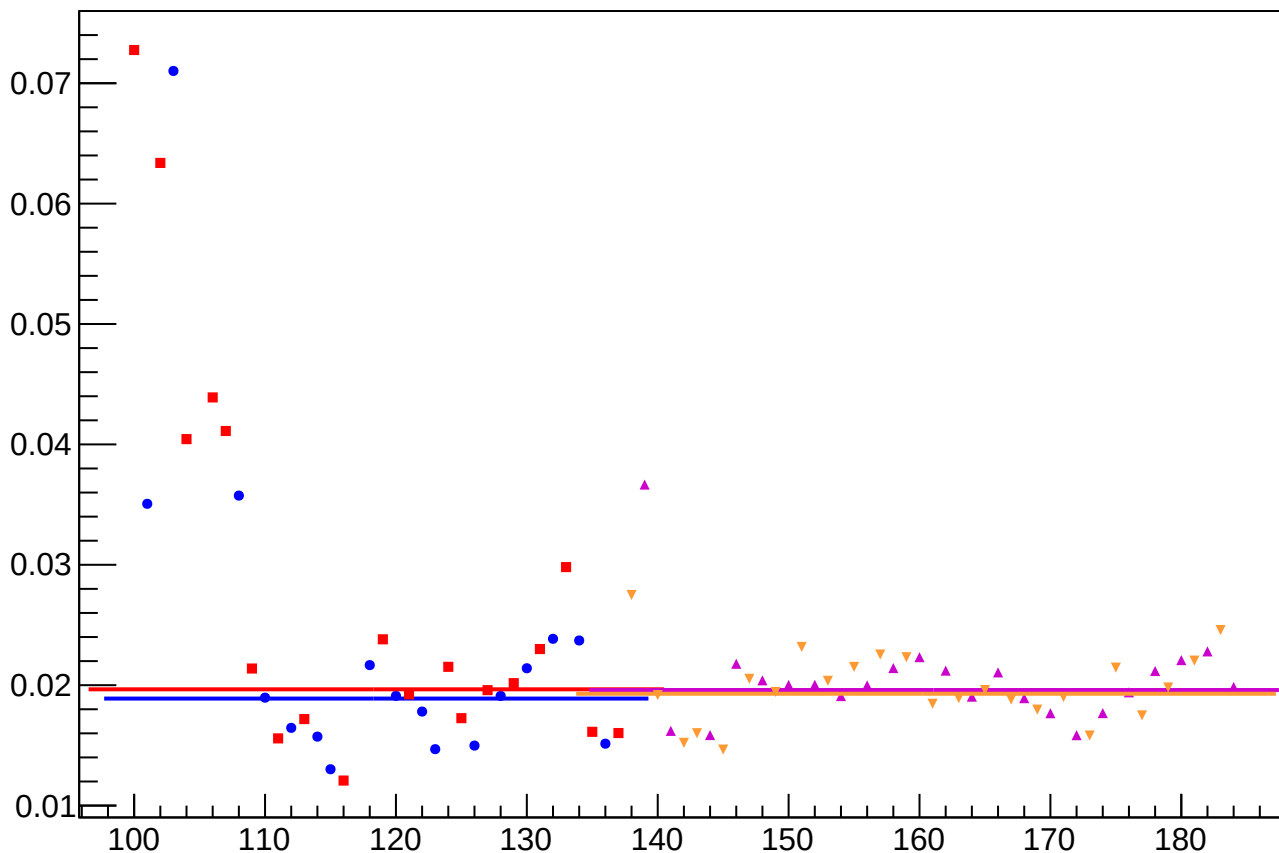
Right: -0.181 ± 0.000 $\chi^2/\text{NDF}: 150315642.4/35$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 260703413.6/39$

Out: -0.102 ± 0.000 $\chi^2/\text{NDF}: 319249822.2/42$

All: -0.099 ± 0.000 $\chi^2/\text{NDF}: 581003964.0/82$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1211816.5/16

Left Out: 0.019+/-0.000 χ^2/NDF : 591620.7/23

Right Out: 0.020+/-0.000 χ^2/NDF : 1454143.7/18

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1218447.5/46

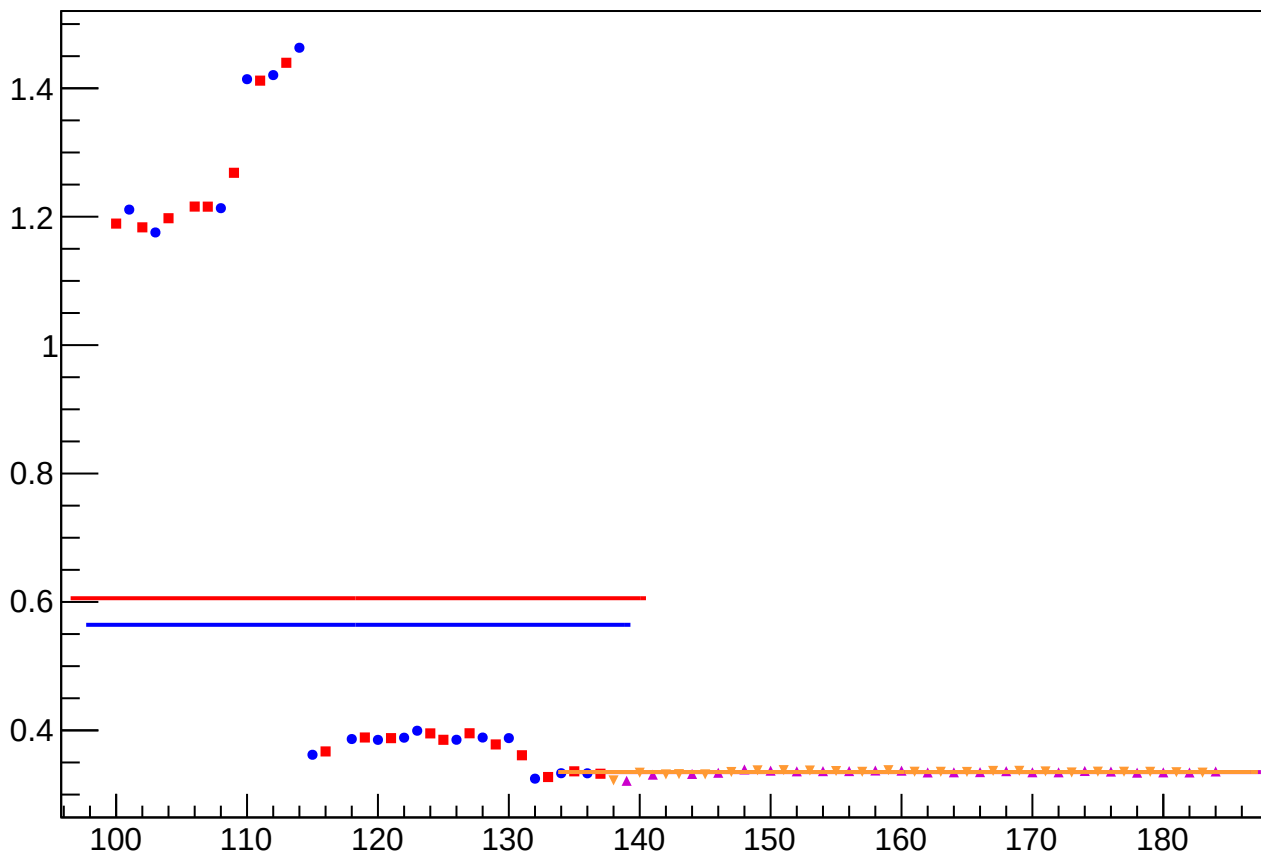
Right: 0.019+/-0.000 χ^2/NDF : 2674059.2/35

In: 0.019+/-0.000 χ^2/NDF : 1845199.0/39

Out: 0.019+/-0.000 χ^2/NDF : 2048495.4/42

All: 0.019+/-0.000 χ^2/NDF : 3893719.9/82

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.564 $\pm$ 0.000 χ^2/NDF : 5040911893.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2/NDF : 1141358.6/23

Right Out: 0.606 $\pm$ 0.000 χ^2/NDF : 5529469116.6/18

Left In: 0.335 $\pm$ 0.000 χ^2/NDF : 1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2/NDF : 2344551.8/46

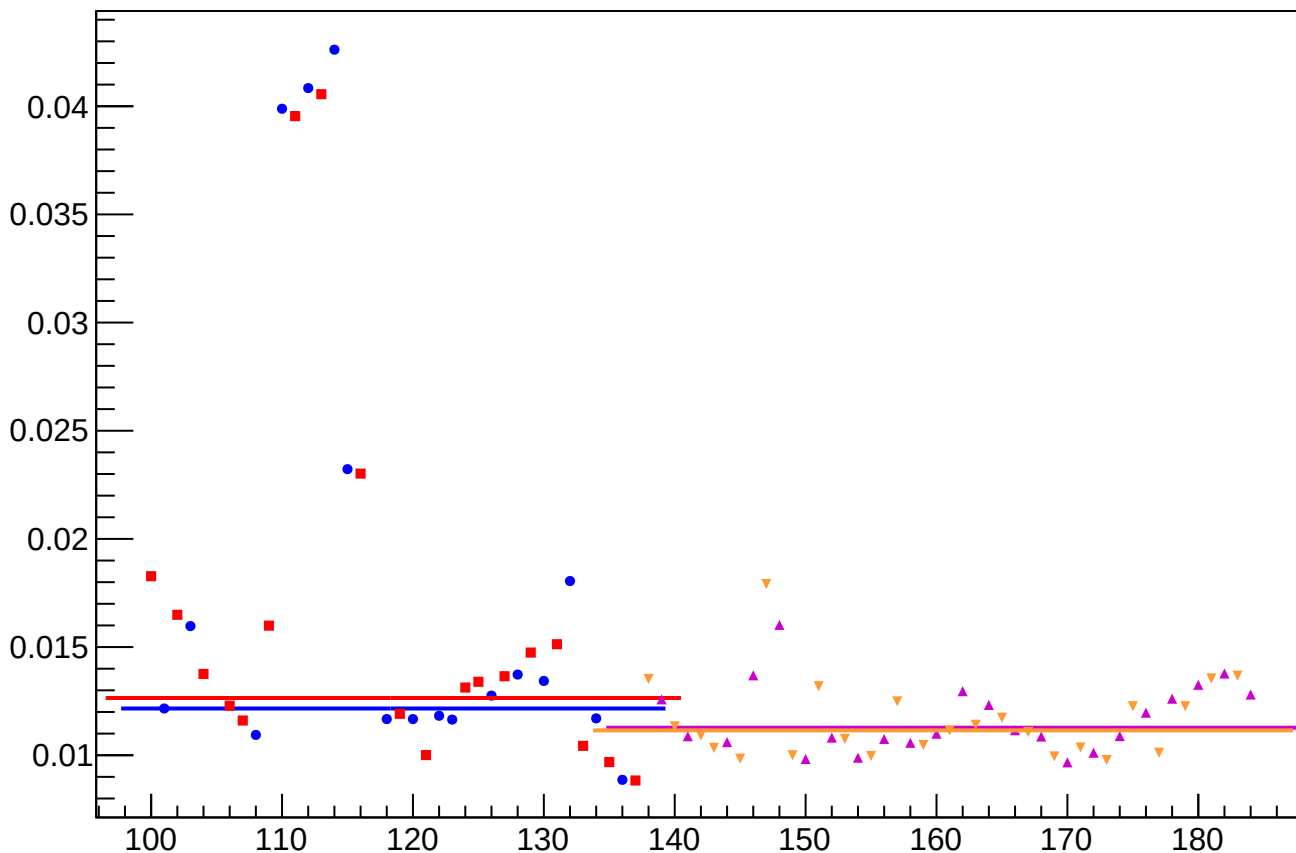
Right: 0.585 $\pm$ 0.000 χ^2/NDF : 10602472583.7/35

In: 0.387 $\pm$ 0.000 χ^2/NDF : 6595145855.7/39

Out: 0.392 $\pm$ 0.000 χ^2/NDF : 7654377747.3/42

All: 0.390 $\pm$ 0.000 χ^2/NDF : 14251615268.8/8

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 1304124.1/16

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 592150.1/23

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 1268972.5/18

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 502455.5/22

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 1096619.5/46

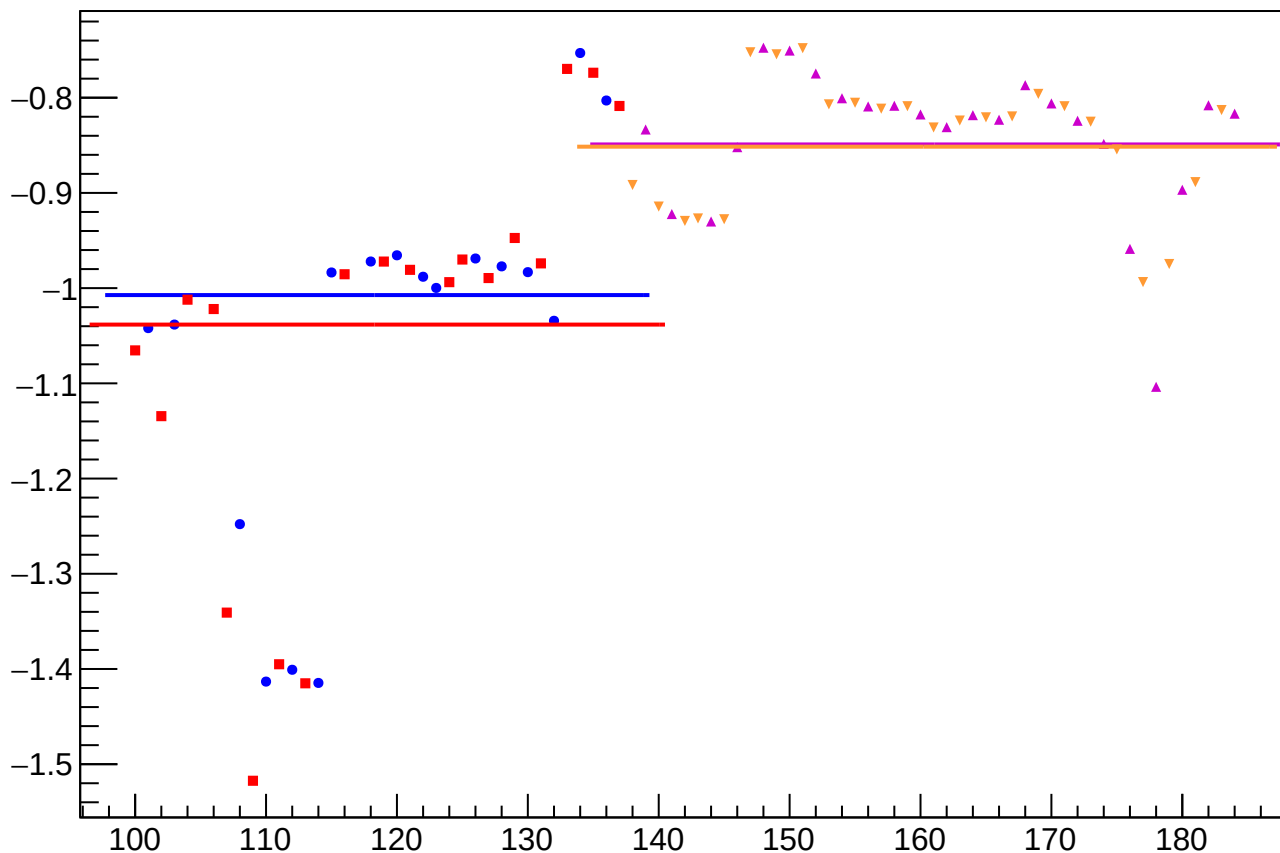
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 2581927.2/35

In: 0.011 $\pm$ 0.000 χ^2/NDF : 1853158.2/39

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 1990998.1/42

All: 0.011 $\pm$ 0.000 χ^2/NDF : 3844172.2/82

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.007 ± 0.000 χ^2/NDF : 393589325.7/16

Left Out: -0.851 ± 0.000 χ^2/NDF : 185577555.1/23

Right Out: -1.038 ± 0.000 χ^2/NDF : 535629570.0/18

Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 ± 0.000 χ^2/NDF : 442078603.2/46

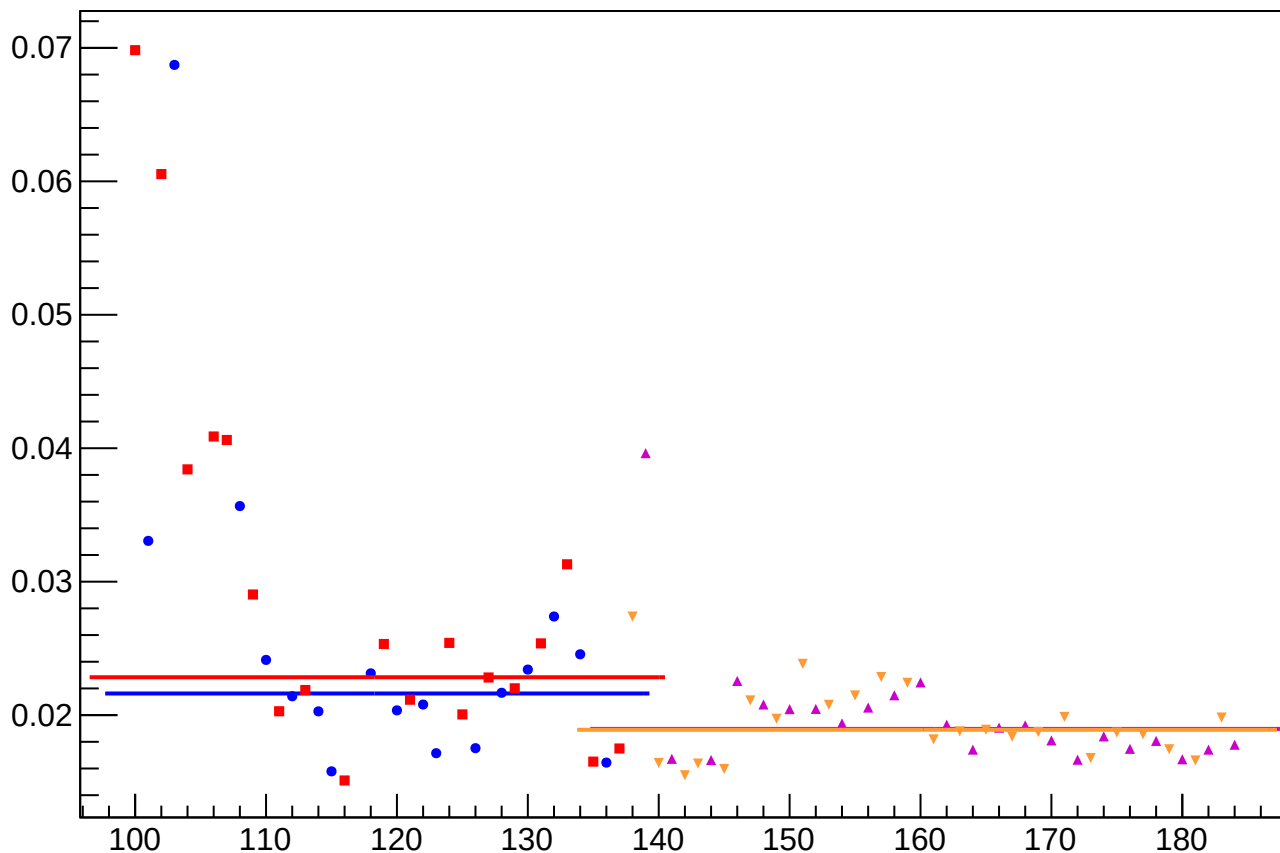
Right: -1.022 ± 0.000 χ^2/NDF : 934274584.5/35

In: -0.884 ± 0.000 χ^2/NDF : 862747818.3/39

Out: -0.889 ± 0.000 χ^2/NDF : 1005486691.8/42

All: -0.886 ± 0.000 χ^2/NDF : 1868876914.3/8

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 984588.1/16

Left Out: 0.019+/-0.000 χ^2/NDF : 466692.1/23

Right Out: 0.023+/-0.000 χ^2/NDF : 1150914.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1082040.6/46

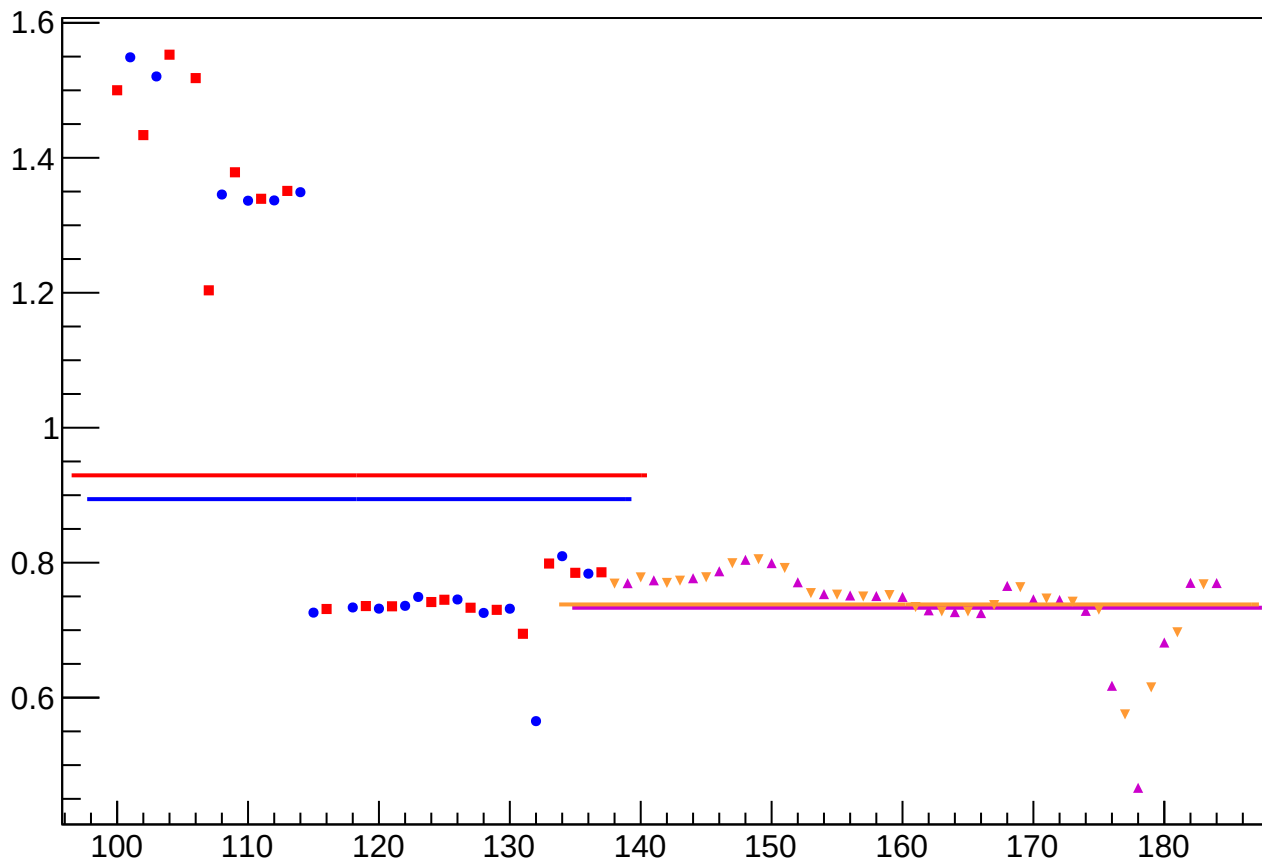
Right: 0.022+/-0.000 χ^2/NDF : 2151098.1/35

In: 0.020+/-0.000 χ^2/NDF : 1719545.9/39

Out: 0.020+/-0.000 χ^2/NDF : 1870158.2/42

All: 0.020+/-0.000 χ^2/NDF : 3590685.1/82

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.894 $\pm$ 0.000 χ^2 /NDF: 2399022212.9/16

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:330167858.4/23

Right Out: 0.929 $\pm$ 0.000 χ^2 /NDF: 2422023767.8/18

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 901137492.4/46

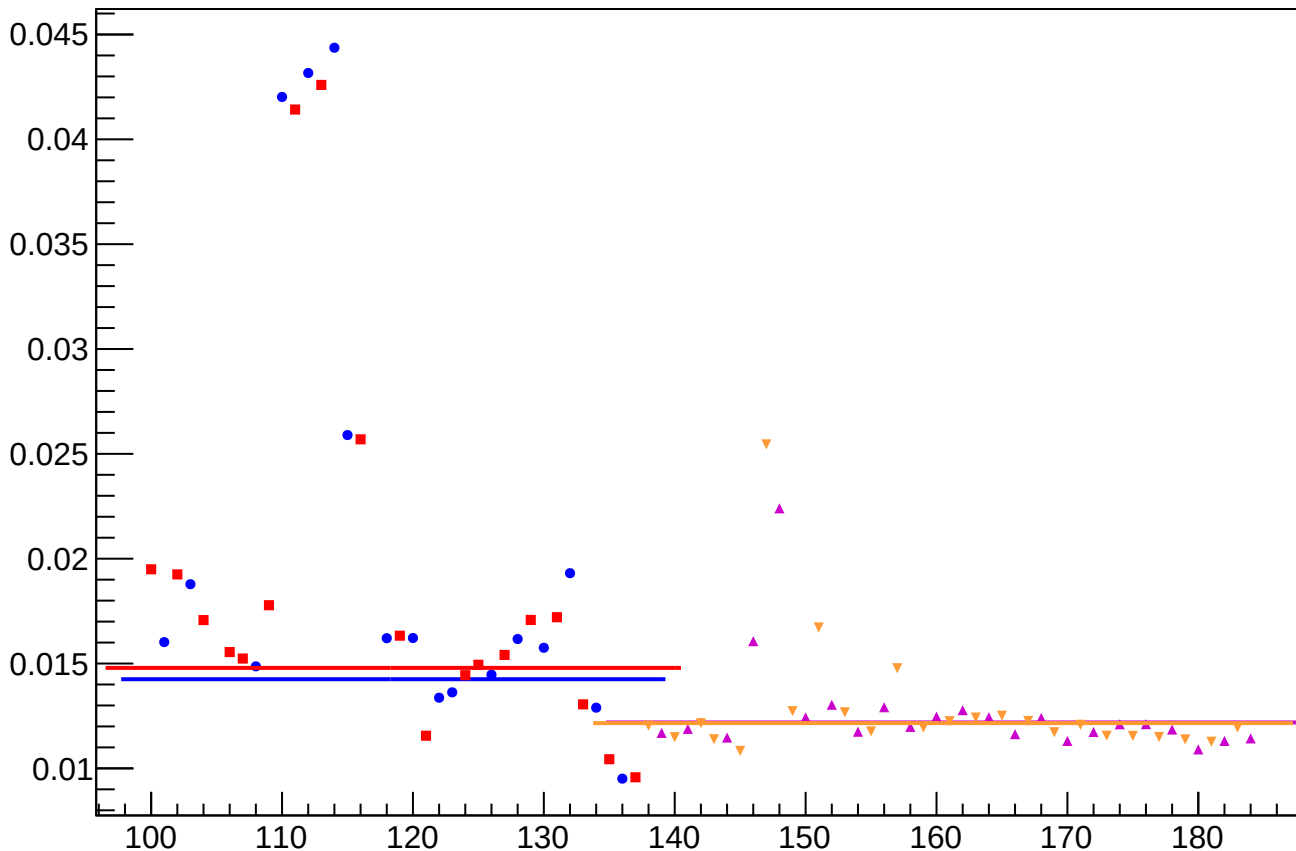
Right: 0.912 $\pm$ 0.000 χ^2 /NDF: 4838135937.4/35

In: 0.765 $\pm$ 0.000 χ^2 /NDF:3544269880.2/39

Out: 0.774 $\pm$ 0.000 χ^2 /NDF:3561411085.4/42

All: 0.770 $\pm$ 0.000 χ^2 /NDF: 7111765357.2/82

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 1409964.0/16

Left Out: 0.012 $\pm$ 0.000 χ^2/NDF : 634656.9/23

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 1271820.6/18

Left In: 0.012 $\pm$ 0.000 χ^2/NDF : 481830.1/22

Left: 0.012 $\pm$ 0.000 χ^2/NDF : 1116608.5/46

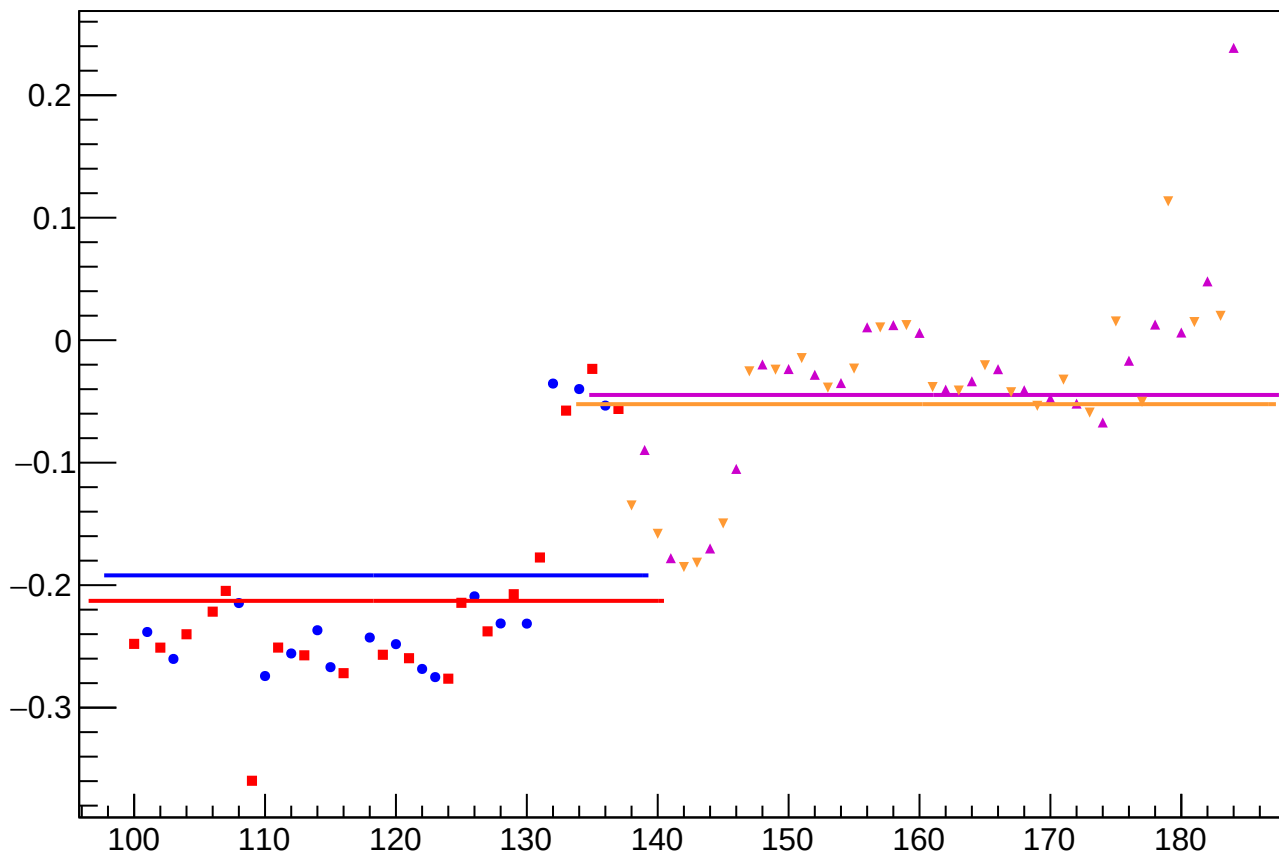
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 2689819.1/35

In: 0.013 $\pm$ 0.000 χ^2/NDF : 2080559.5/39

Out: 0.013 $\pm$ 0.000 χ^2/NDF : 2213218.1/42

All: 0.013 $\pm$ 0.000 χ^2/NDF : 4294263.0/82

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192 ± 0.000 $\chi^2/\text{NDF}: 106200458.9/16$

Left Out: -0.052 ± 0.000 $\chi^2/\text{NDF}: 158990296.7/23$

Right Out: -0.213 ± 0.000 $\chi^2/\text{NDF}: 110522593.6/18$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 287258279.0/46$

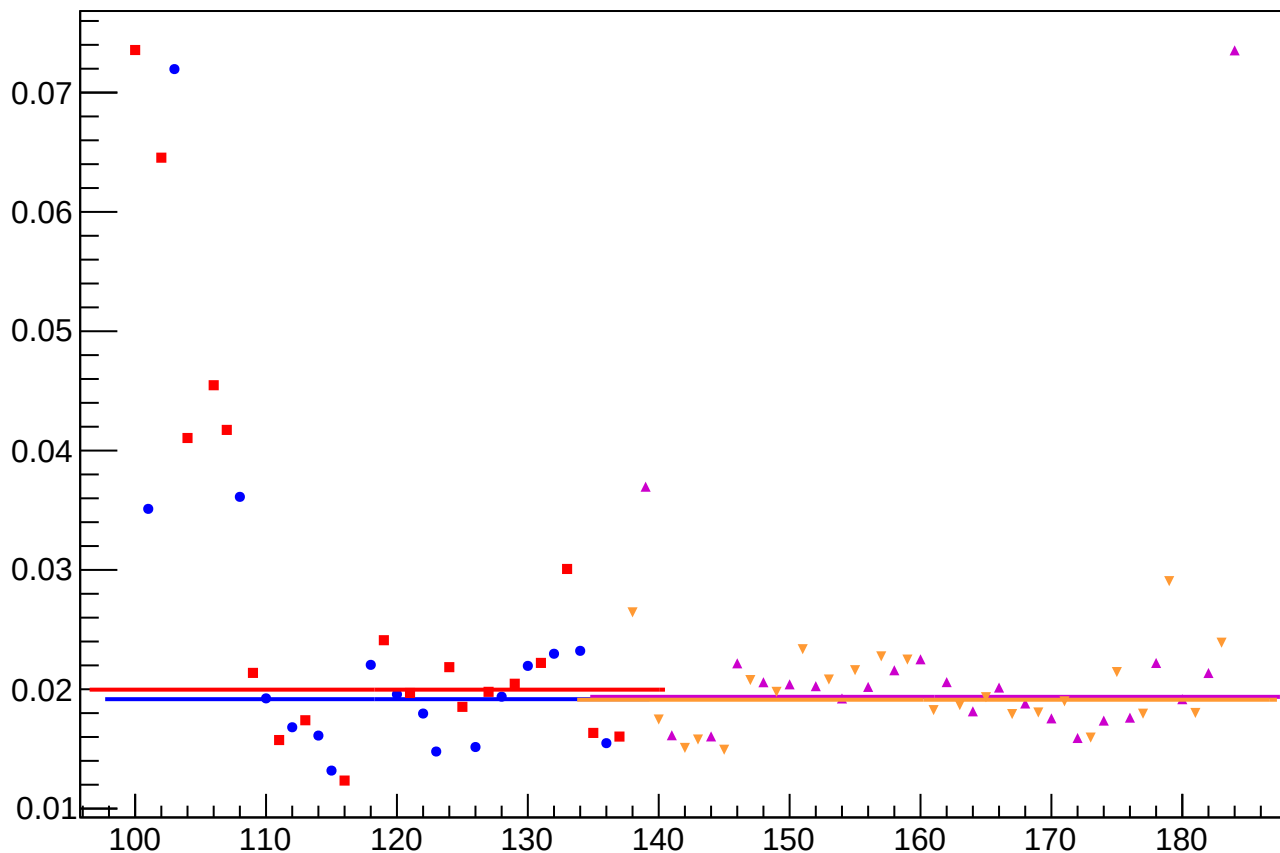
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 219599085.5/35$

In: -0.084 ± 0.000 $\chi^2/\text{NDF}: 449362341.1/39$

Out: -0.092 ± 0.000 $\chi^2/\text{NDF}: 520827690.6/42$

All: -0.088 ± 0.000 $\chi^2/\text{NDF}: 971731768.0/82$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1182752.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 656960.0/23

Right Out: 0.020+/-0.000 χ^2/NDF : 1445067.6/18

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1517418.4/46

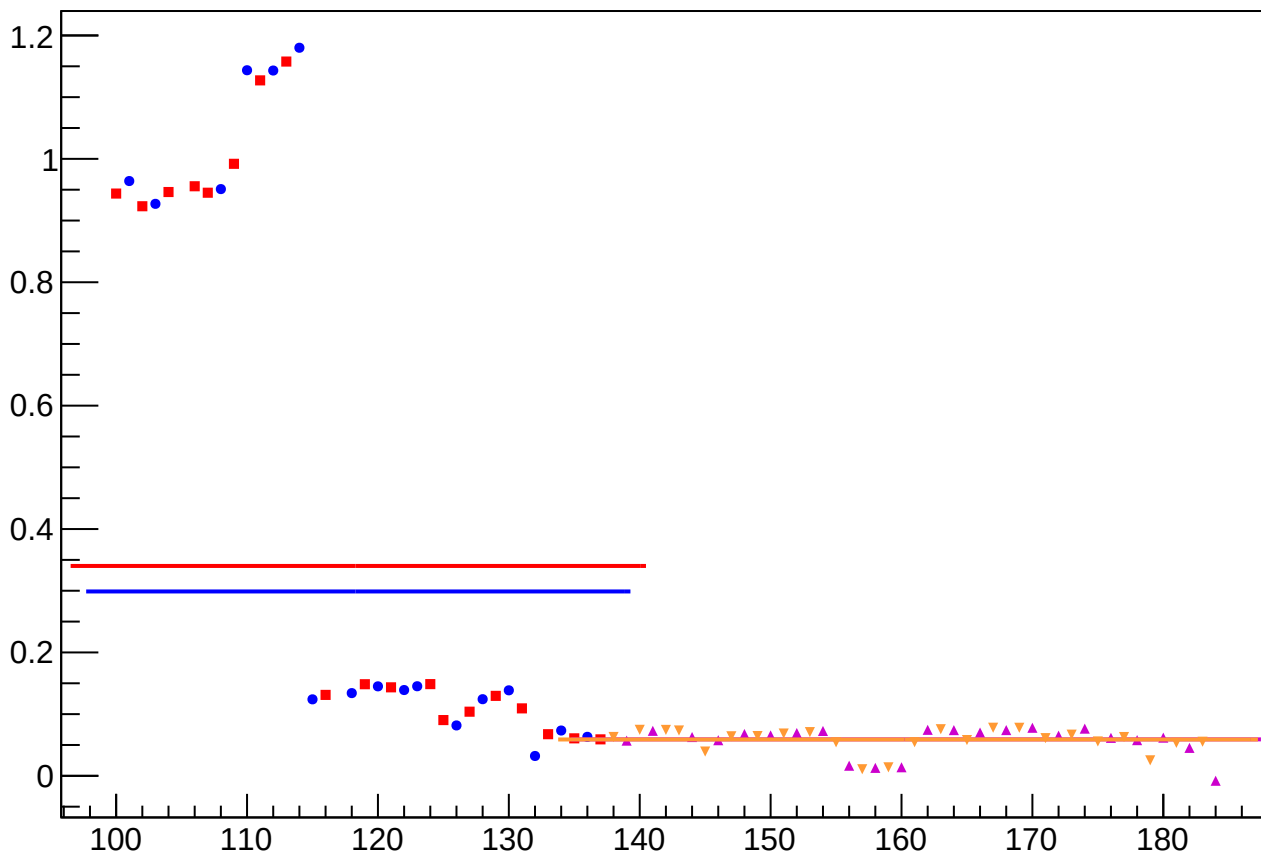
Right: 0.020+/-0.000 χ^2/NDF : 2636287.3/35

In: 0.019+/-0.000 χ^2/NDF : 2041736.4/39

Out: 0.019+/-0.000 χ^2/NDF : 2115934.5/42

All: 0.019+/-0.000 χ^2/NDF : 4157691.8/82

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.299+/-0.000 χ^2/NDF : 5180137730.5/16

Left Out: 0.059+/-0.000 χ^2/NDF : 46200697.6/23

Right Out: 0.340+/-0.000 χ^2/NDF : 5473541358.4/18

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 104721250.7/46

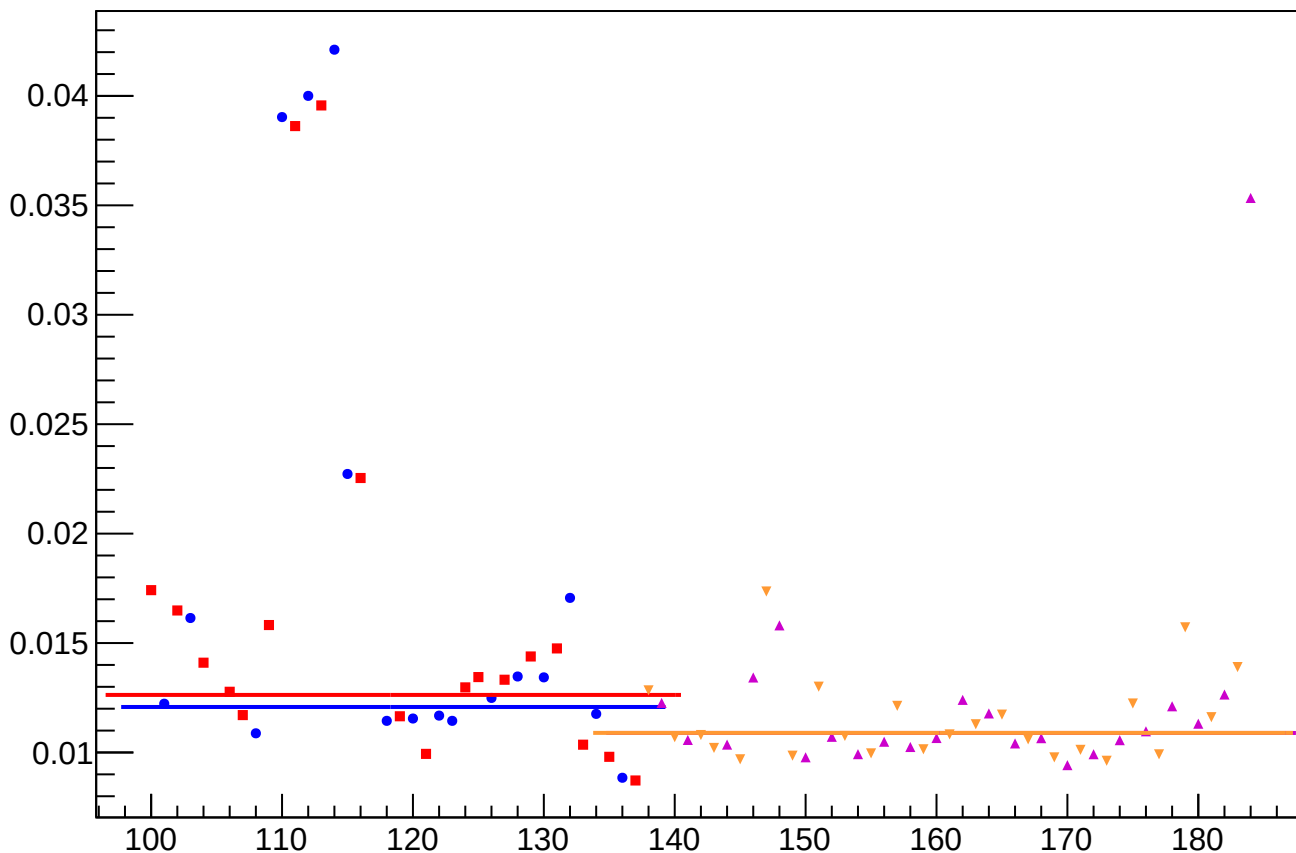
Right: 0.319+/-0.000 χ^2/NDF : 10685960138.1/35

In: 0.112+/-0.000 χ^2/NDF : 6972307345.7/39

Out: 0.117+/-0.000 χ^2/NDF : 7826565155.2/42

All: 0.115+/-0.000 χ^2/NDF : 14801202092.3/80

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1276713.5/16

Left Out: 0.011+/-0.000 χ^2/NDF : 593314.2/23

Right Out: 0.013+/-0.000 χ^2/NDF : 1235880.5/18

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1123393.3/46

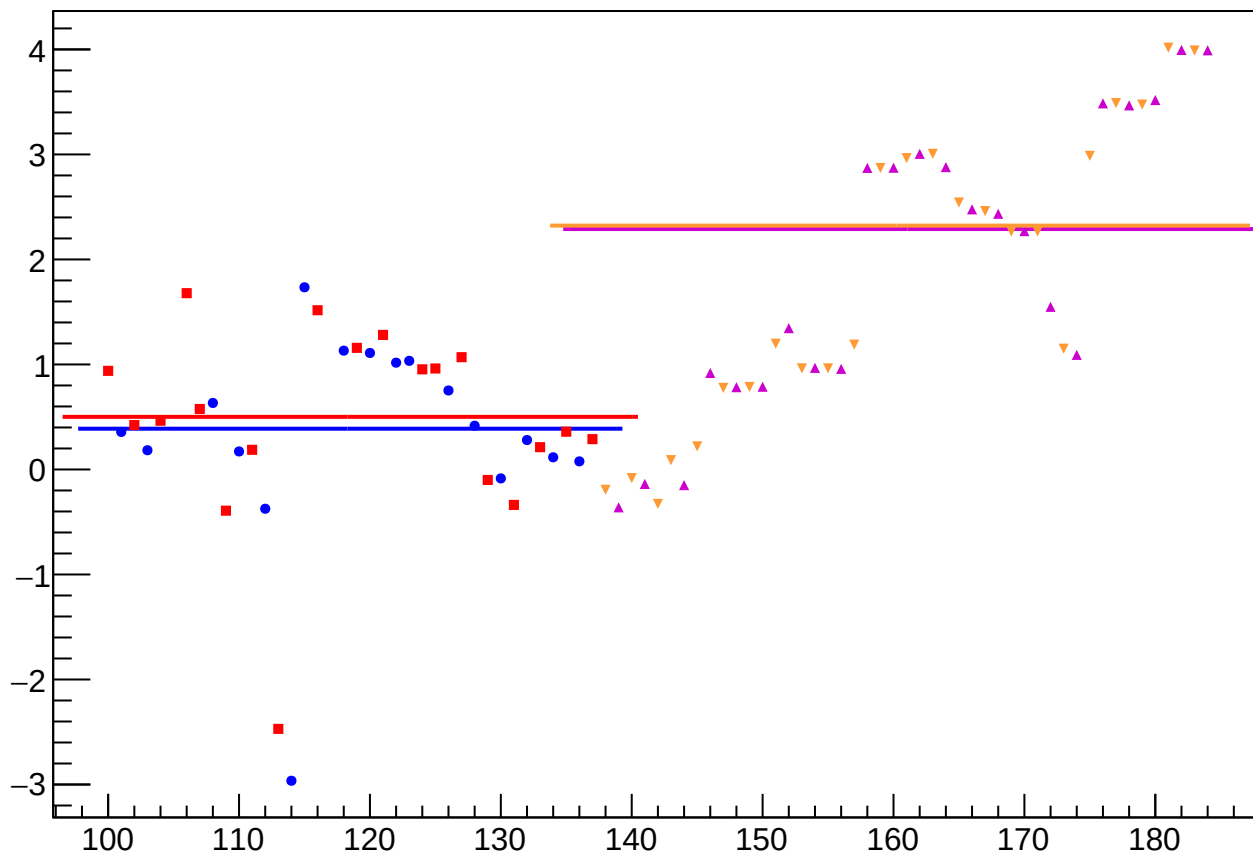
Right: 0.012+/-0.000 χ^2/NDF : 2524057.1/35

In: 0.011+/-0.000 χ^2/NDF : 1891827.0/39

Out: 0.011+/-0.000 χ^2/NDF : 2004689.3/42

All: 0.011+/-0.000 χ^2/NDF : 3898309.1/82

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.388+/-0.000

χ^2/NDF : 245257258.4/16

Left: 2.306+/-0.000 χ^2/NDF : 121228608728.4/46

Right: 0.440+/-0.000 χ^2/NDF : 1238568445.6/35

Left Out: 2.322+/-0.000

χ^2/NDF : 60325936365.1/23

In: 2.228+/-0.000 χ^2/NDF : 67232442270.7/39

Right Out: 0.501+/-0.000

χ^2/NDF : 983034937.0/18

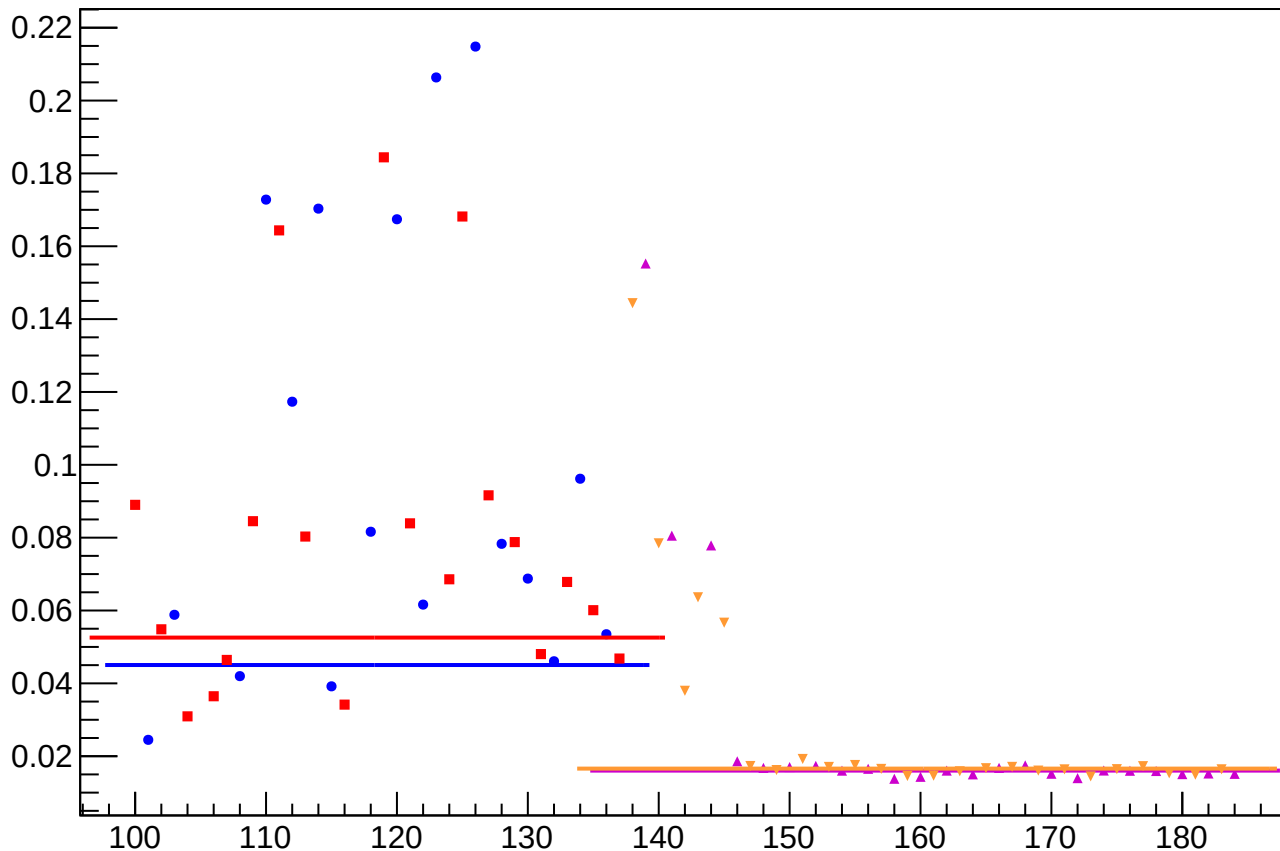
Out: 2.269+/-0.000 χ^2/NDF : 66108051841.9/42

Left In: 2.290+/-0.000

χ^2/NDF : 60875537647.3/22

All: 2.248+/-0.000 χ^2/NDF : 133386634699.3

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2830669.1/16

Left Out: 0.017+/-0.000 χ^2/NDF : 2809705.5/23

Right Out: 0.053+/-0.000 χ^2/NDF : 2177690.7/18

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5219390.0/46

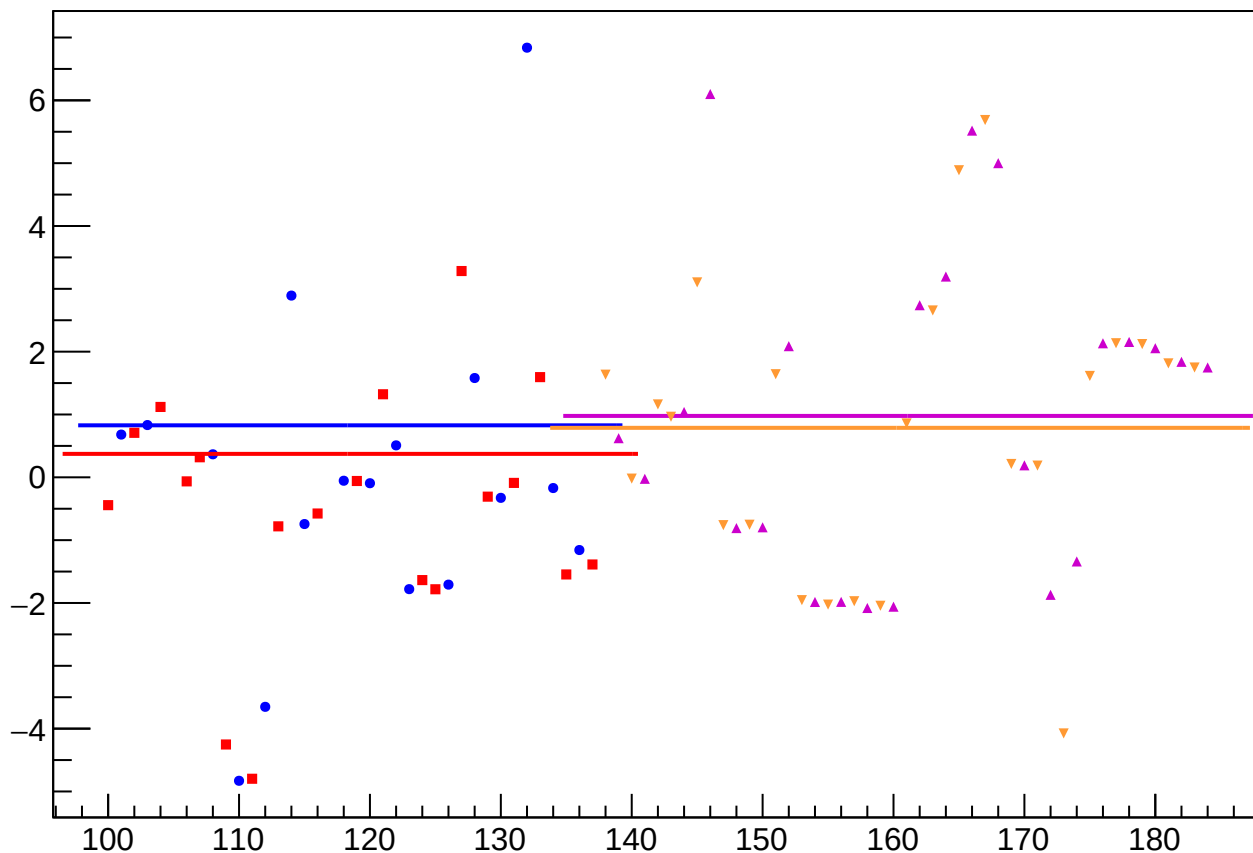
Right: 0.049+/-0.000 χ^2/NDF : 5099571.7/35

In: 0.017+/-0.000 χ^2/NDF : 8066400.2/39

Out: 0.018+/-0.000 χ^2/NDF : 8732341.9/42

All: 0.017+/-0.000 χ^2/NDF : 16820581.4/82

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.828+/-0.000 χ^2/NDF : 10934615588.5/16

Left Out: 0.788+/-0.000 χ^2/NDF : 506167947074.3/23

Right Out: 0.373+/-0.000 χ^2/NDF : 4968052358.8/18

Left In: 0.977+/-0.000 χ^2/NDF : 568209676597.4/22

Left: 0.884+/-0.000 χ^2/NDF : 1075891814100.9/46

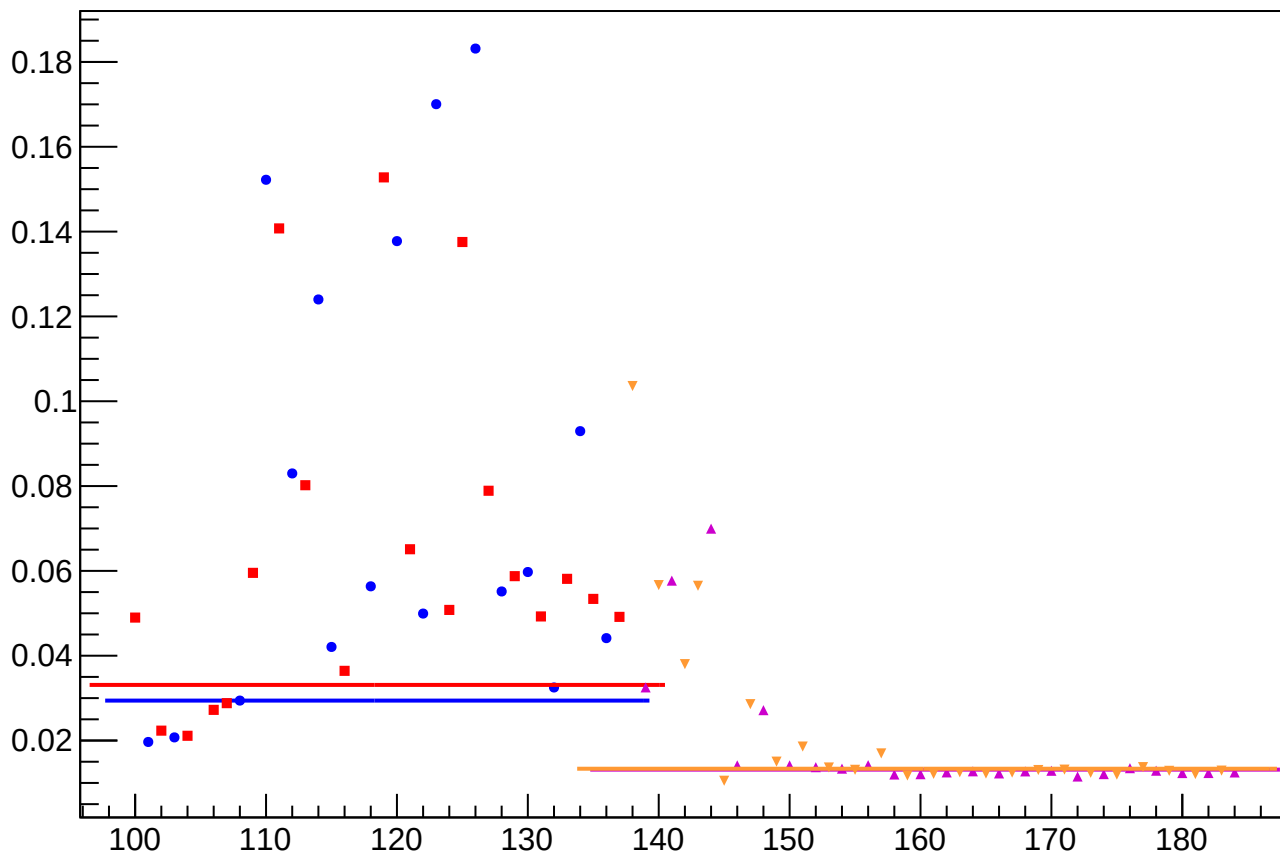
Right: 0.614+/-0.000 χ^2/NDF : 16284898380.7/35

In: 0.971+/-0.000 χ^2/NDF : 579228673937.2/39

Out: 0.771+/-0.000 χ^2/NDF : 511712436534.4/42

All: 0.872+/-0.000 χ^2/NDF : 1092694942638.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 3034312.5/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2916065.2/23

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 3078516.1/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1946693.6/22

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 4866622.5/46

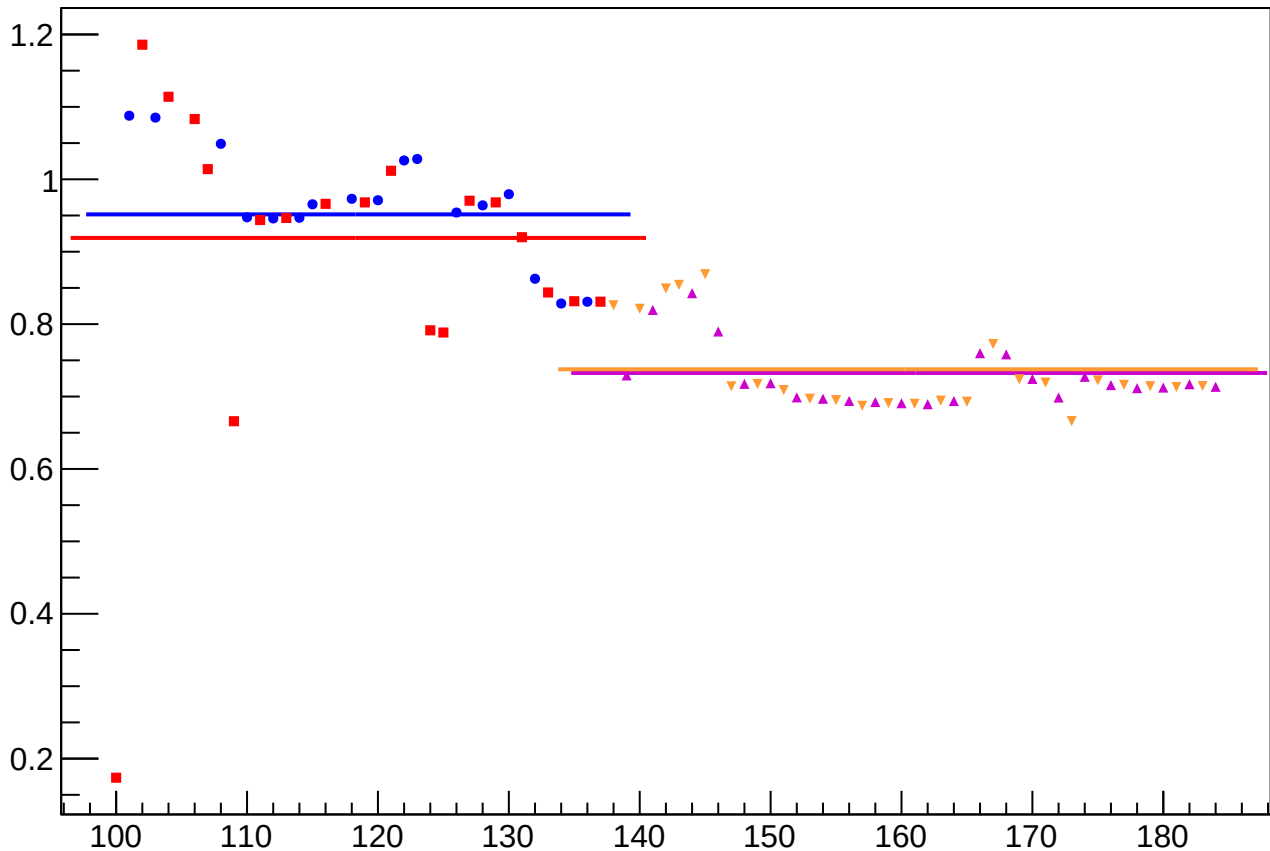
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6163407.5/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:6973595.1/39

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:8615407.1/42

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 15596503.7/82

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.952 $\pm$ 0.000 χ^2 /NDF: 173959453.0/16

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:298370000.5/23

Right Out: 0.919 $\pm$ 0.000 χ^2 /NDF: 374715264.1/18

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:170102394.7/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 469511620.5/46

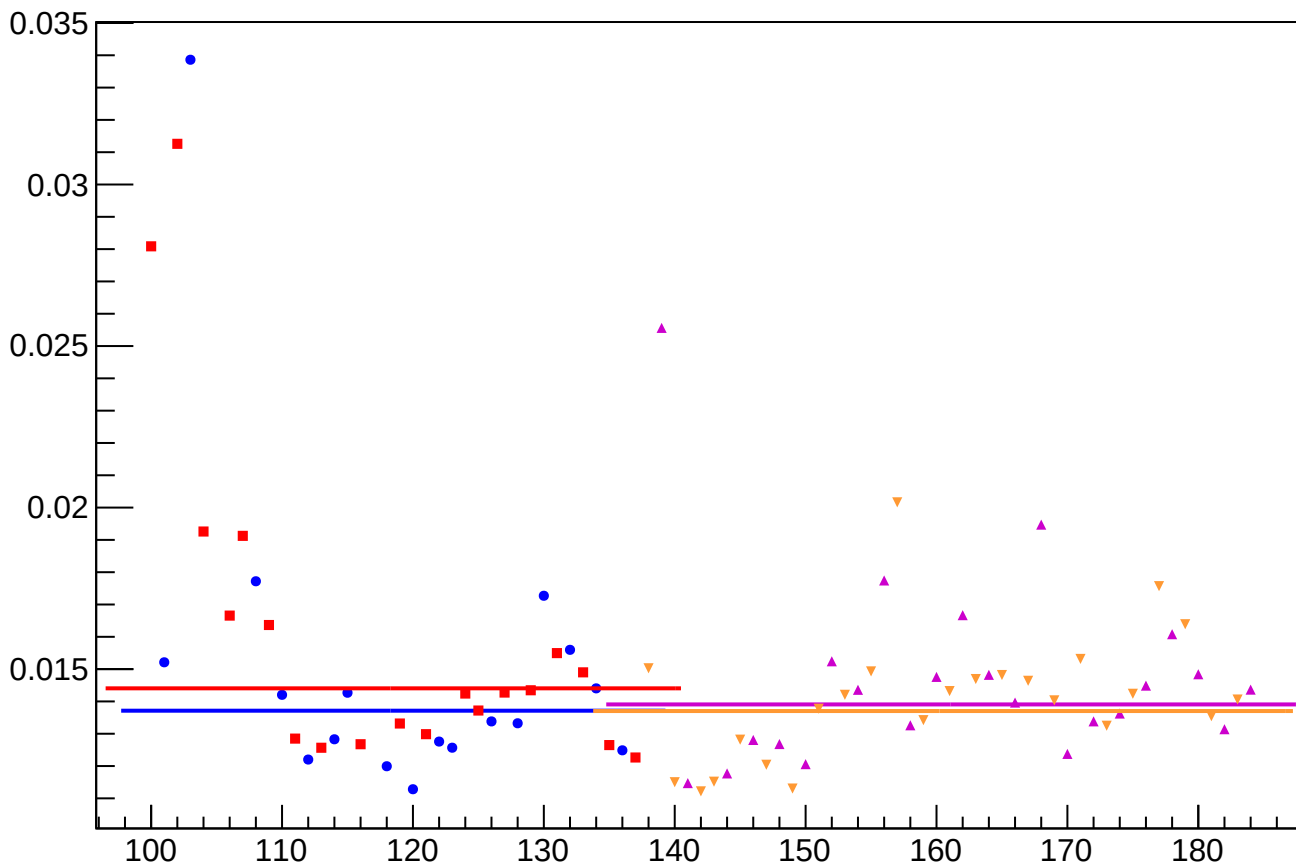
Right: 0.936 $\pm$ 0.000 χ^2 /NDF: 564529204.5/35

In: 0.794 $\pm$ 0.000 χ^2 /NDF:1410406192.6/39

Out: 0.784 $\pm$ 0.000 χ^2 /NDF:1387850818.7/42

All: 0.789 $\pm$ 0.000 χ^2 /NDF: 2803103993.3/82

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546221.8/16

Left Out: 0.014+/-0.000 χ^2/NDF : 512185.9/23

Right Out: 0.014+/-0.000 χ^2/NDF : 502019.0/18

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1283795.1/46

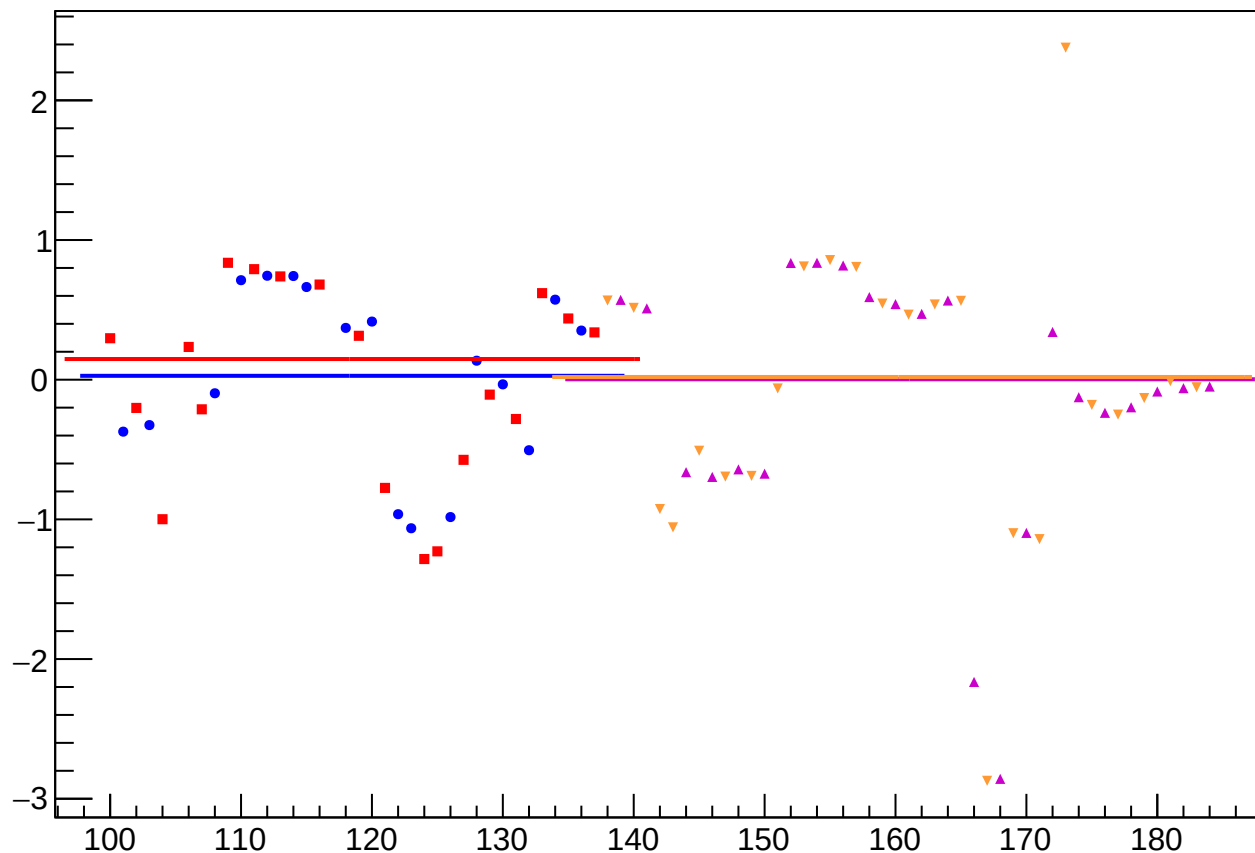
Right: 0.014+/-0.000 χ^2/NDF : 1062609.3/35

In: 0.014+/-0.000 χ^2/NDF : 1316062.2/39

Out: 0.014+/-0.000 χ^2/NDF : 1035646.9/42

All: 0.014+/-0.000 χ^2/NDF : 2351809.1/82

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6330660019.5/16

Left Out: 0.020+/-0.000 χ^2/NDF : 95614160828.4/23

Right Out: 0.148+/-0.000 χ^2/NDF : 12786884425.3/18

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.011+/-0.000 χ^2/NDF : 174454828351.0/46

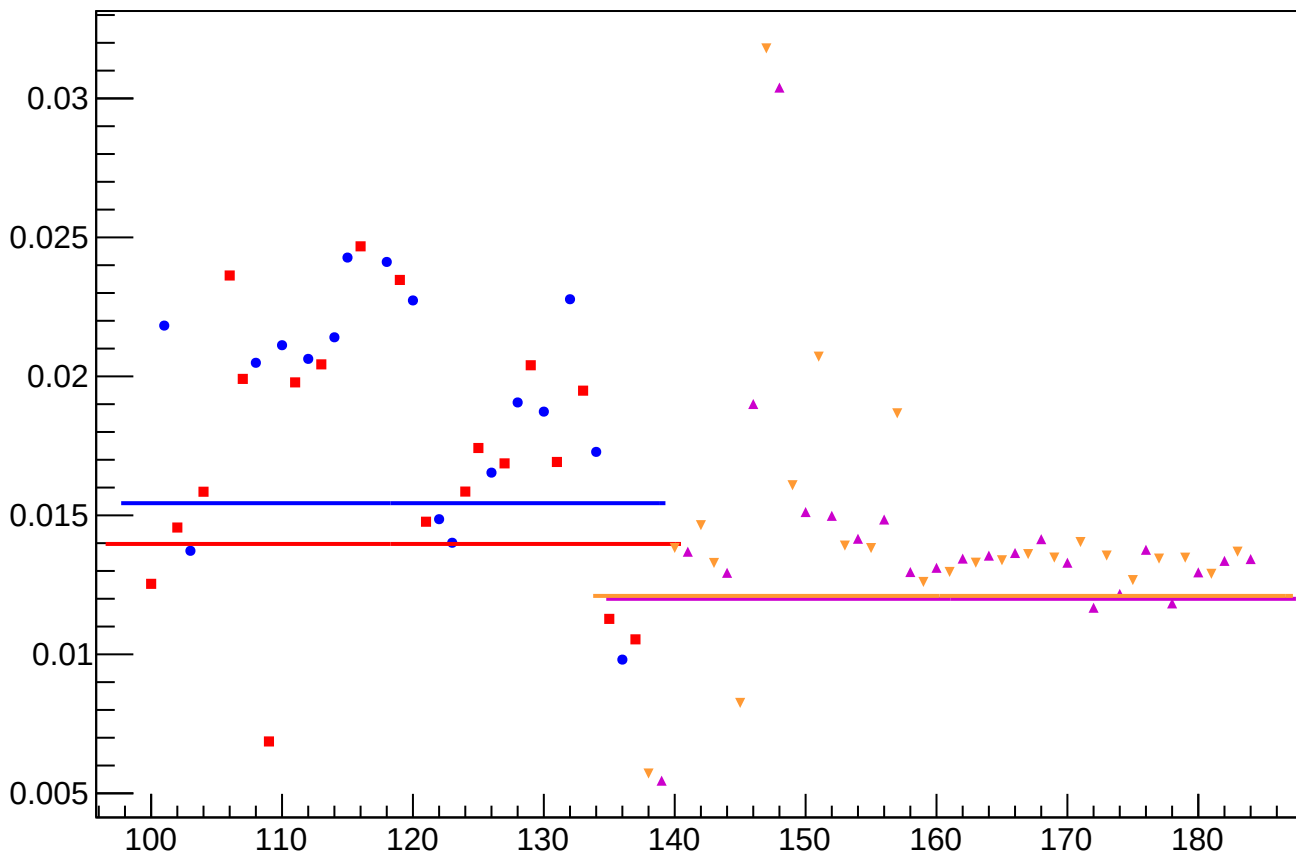
Right: 0.094+/-0.000 χ^2/NDF : 19304525914.6/35

In: 0.008+/-0.000 χ^2/NDF : 85168863588.3/39

Out: 0.047+/-0.000 χ^2/NDF : 108773580333.3/42

All: 0.028+/-0.000 χ^2/NDF : 194042376800.8

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000

χ^2/NDF : 1160014.9/16

Left Out: 0.012+/-0.000

χ^2/NDF : 3109502.5/23

Right Out: 0.014+/-0.000

χ^2/NDF : 1556431.6/18

Left In: 0.012+/-0.000

χ^2/NDF : 3003502.9/22

Left: 0.012+/-0.000

χ^2/NDF : 6114168.5/46

Right: 0.015+/-0.000

χ^2/NDF : 2772133.5/35

In: 0.013+/-0.000

χ^2/NDF : 4619946.0/39

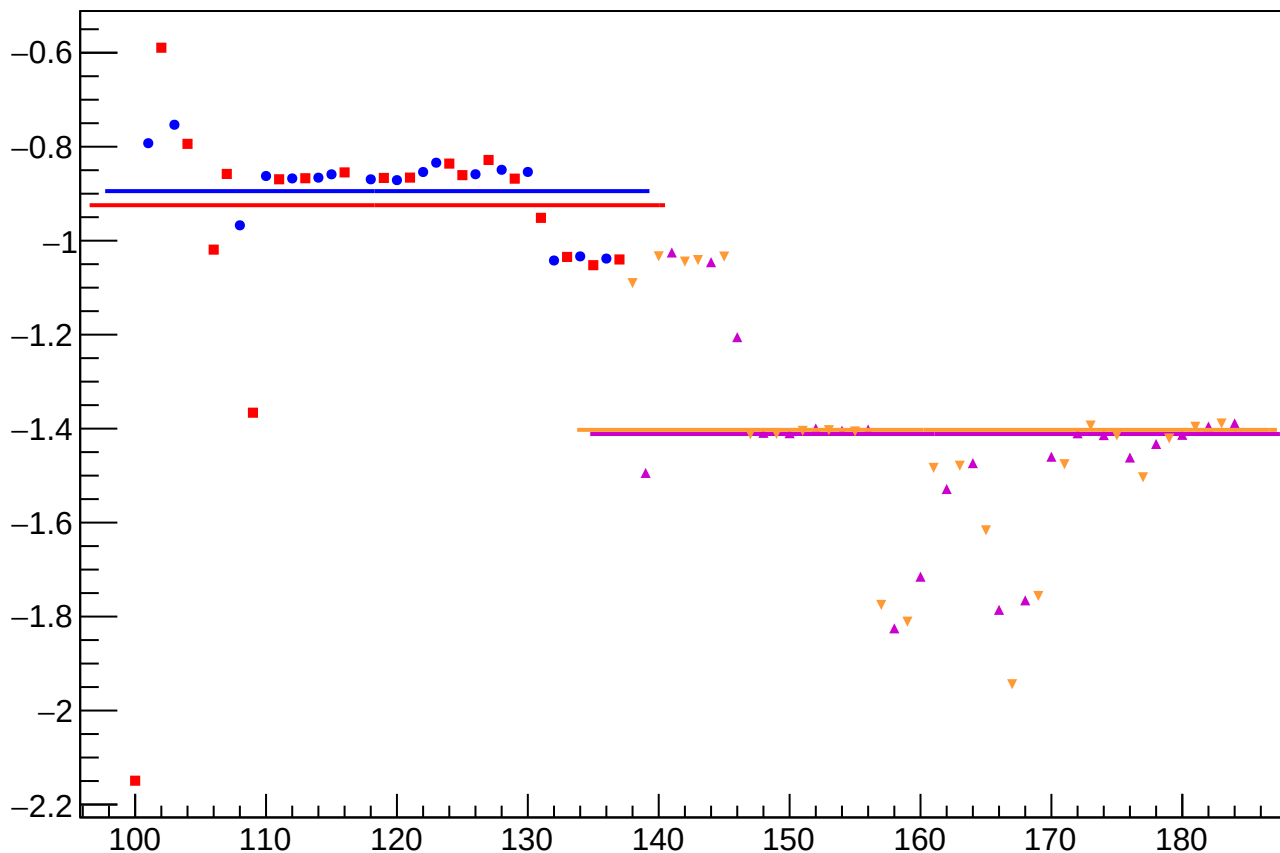
Out: 0.012+/-0.000

χ^2/NDF : 4823676.7/42

All: 0.013+/-0.000

χ^2/NDF : 9446027.3/82

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.895 ± 0.000 $\chi^2/\text{NDF}: 37736129.8/16$

Left Out: -1.403 ± 0.000 $\chi^2/\text{NDF}: 721831046.2/23$

Right Out: -0.925 ± 0.000 $\chi^2/\text{NDF}: 128456555.8/18$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.407 ± 0.000 $\chi^2/\text{NDF}: 1234864195.4/46$

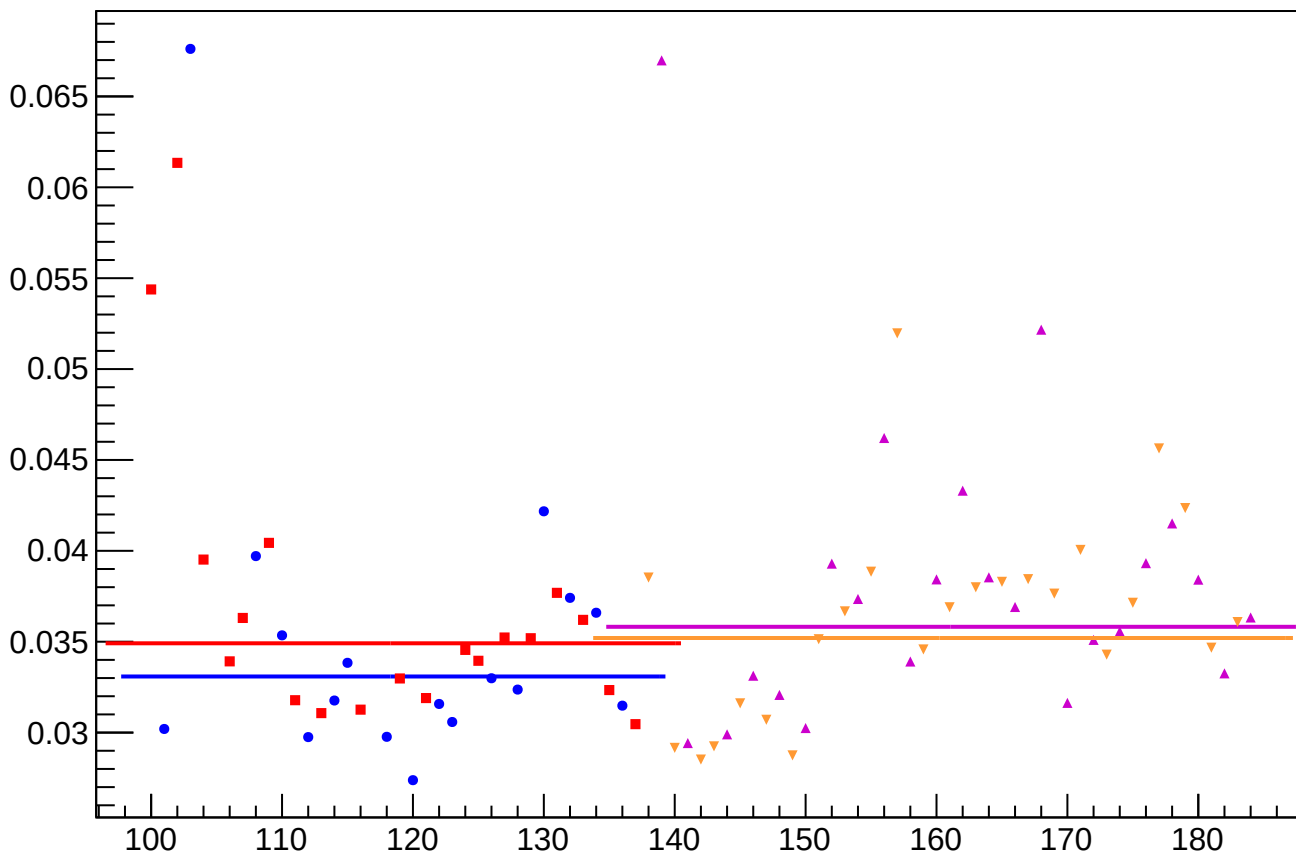
Right: -0.909 ± 0.000 $\chi^2/\text{NDF}: 168526057.0/35$

In: -1.251 ± 0.000 $\chi^2/\text{NDF}: 1536059353.9/39$

Out: -1.267 ± 0.000 $\chi^2/\text{NDF}: 1673454244.9/42$

All: -1.259 ± 0.000 $\chi^2/\text{NDF}: 3211591582.4/8$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 408714.5/16

Left Out: 0.035+/-0.000 χ^2/NDF : 577638.2/23

Right Out: 0.035+/-0.000 χ^2/NDF : 274757.5/18

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.036+/-0.000 χ^2/NDF : 1446444.6/46

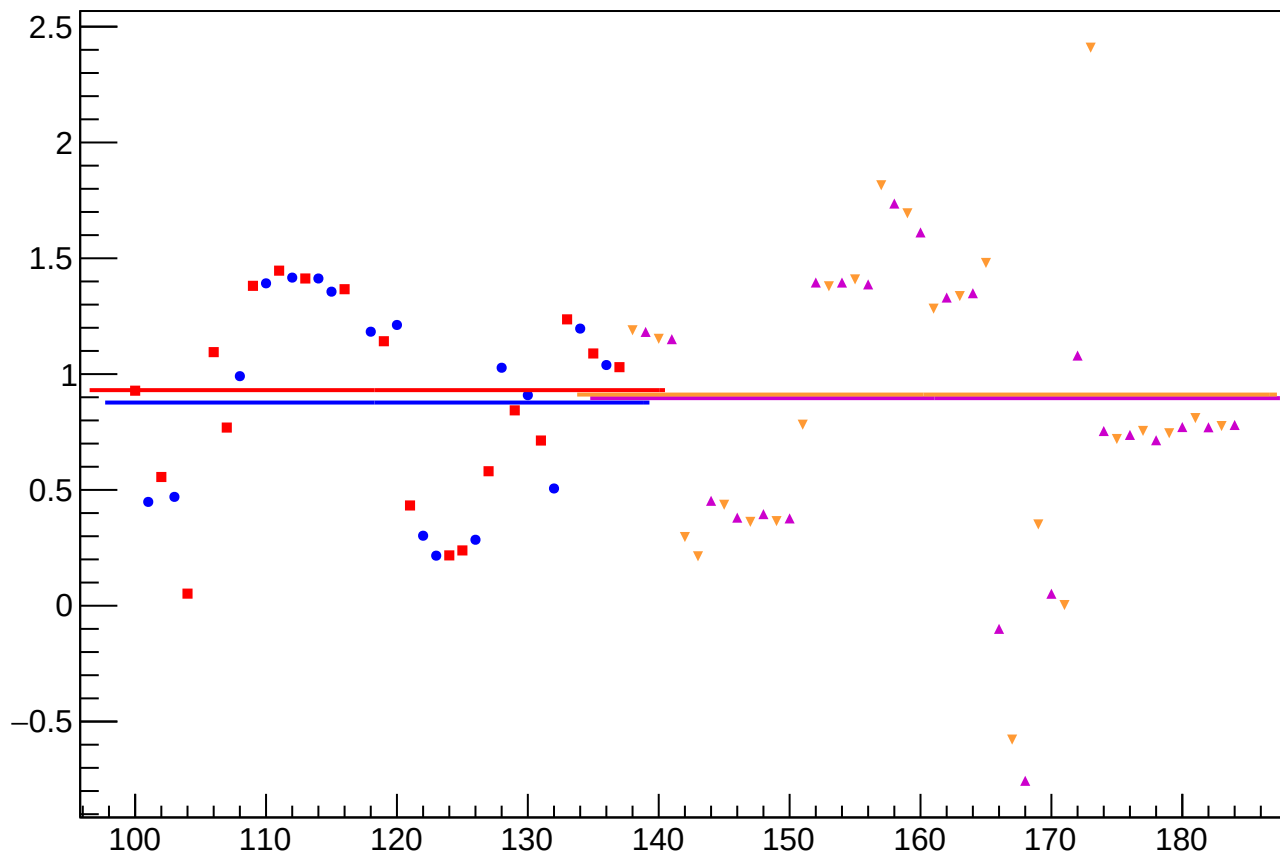
Right: 0.034+/-0.000 χ^2/NDF : 700763.4/35

In: 0.035+/-0.000 χ^2/NDF : 1327989.0/39

Out: 0.035+/-0.000 χ^2/NDF : 853006.4/42

All: 0.035+/-0.000 χ^2/NDF : 2181379.9/82

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.877 $\pm$ 0.000

χ^2 /NDF: 6492530367.5/16

Left: 0.904 $\pm$ 0.000 χ^2 /NDF: 150137208105.1/46

Right: 0.905 $\pm$ 0.000 χ^2 /NDF: 16534143607.8/35

Left Out: 0.912 $\pm$ 0.000

χ^2 /NDF: 83518007471.7/23

In: 0.892 $\pm$ 0.000 χ^2 /NDF: 73101772599.9/39

Right Out: 0.931 $\pm$ 0.000 χ^2 /NDF: 9963132374.2/18

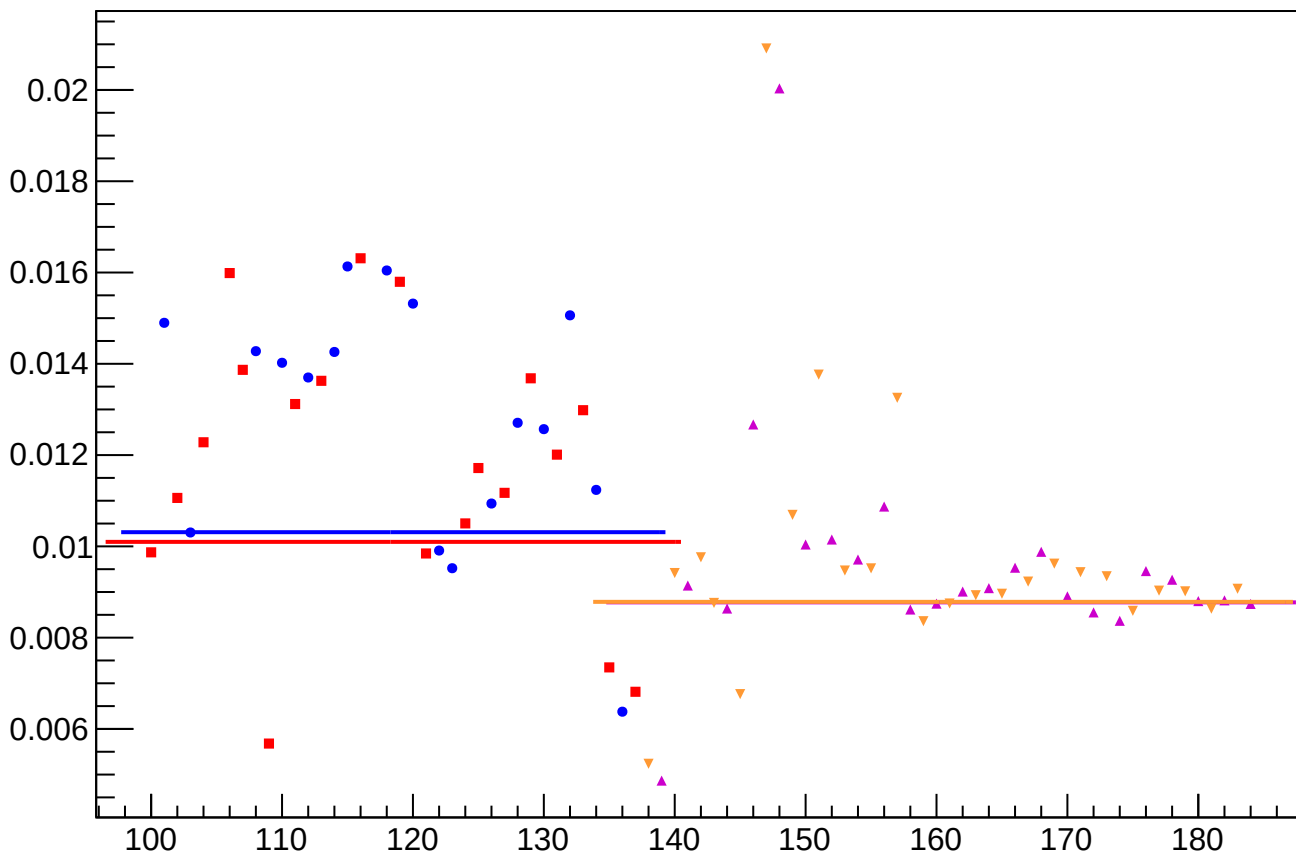
Out: 0.916 $\pm$ 0.000 χ^2 /NDF: 93497637290.2/42

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.904 $\pm$ 0.000 χ^2 /NDF: 166671443254.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1229309.4/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1698312.6/23

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1175272.9/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1607939.0/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3306278.4/46

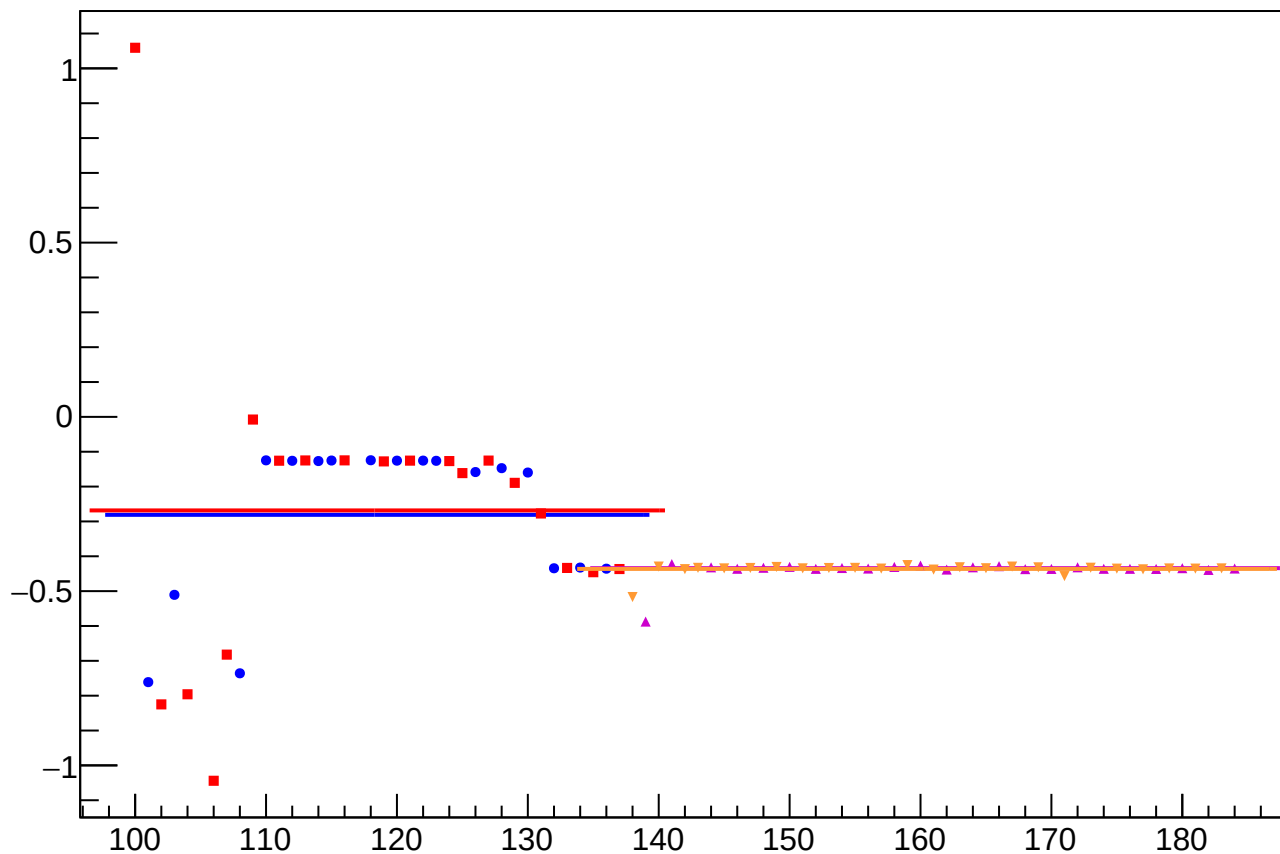
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 2407045.8/35

In: 0.009 $\pm$ 0.000 χ^2 /NDF:3034970.2/39

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:3029285.8/42

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 6064432.4/82

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.281 ± 0.000 $\chi^2/\text{NDF}: 905834039.3/16$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28786440.0/23$

Right Out: -0.268 ± 0.000 $\chi^2/\text{NDF}: 967576606.4/18$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23984173.0/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53128208.7/46$

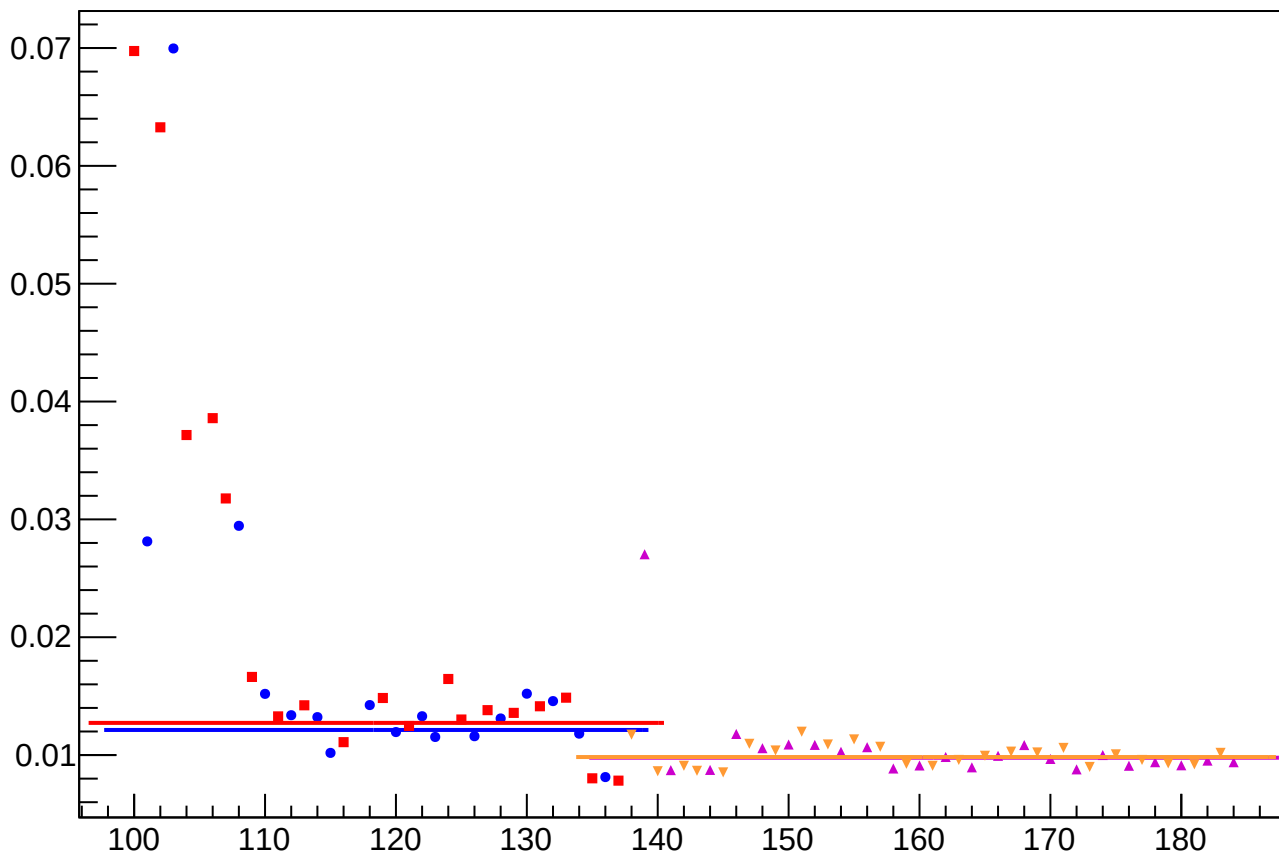
Right: -0.275 ± 0.000 $\chi^2/\text{NDF}: 1875885505.2/35$

In: -0.407 ± 0.000 $\chi^2/\text{NDF}: 1548447140.1/39$

Out: -0.410 ± 0.000 $\chi^2/\text{NDF}: 1702598415.3/42$

All: -0.409 ± 0.000 $\chi^2/\text{NDF}: 3251470081.5/8$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1724778.2/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:261806.4/23

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1970038.2/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1009866.7/46

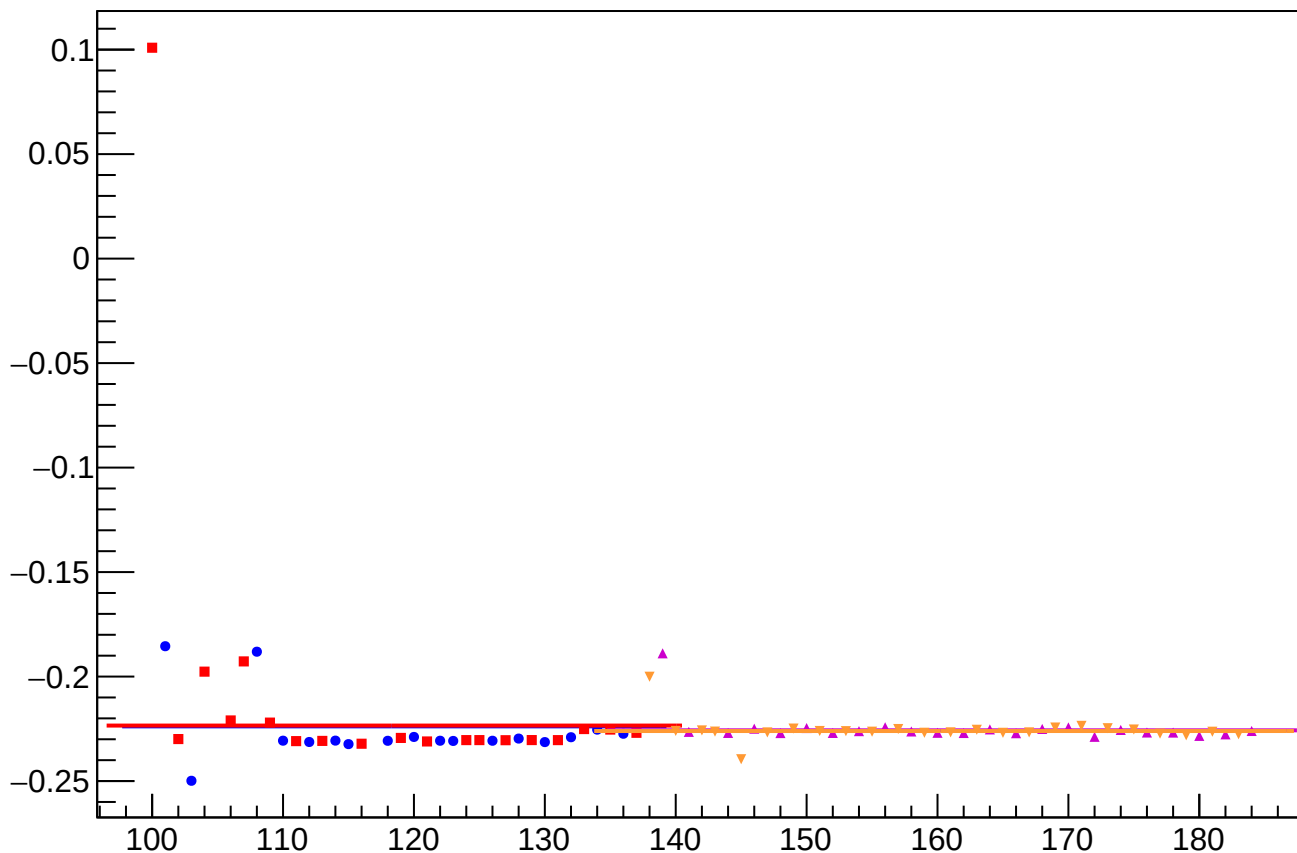
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3705932.5/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:2765456.5/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:2653050.3/42

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 5420653.5/82

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 74308262.0/16

Left Out: -0.226+/-0.000 χ^2/NDF : 21172376.0/23

Right Out: -0.223+/-0.000 χ^2/NDF : 167796311.6/18

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36452757.8/46

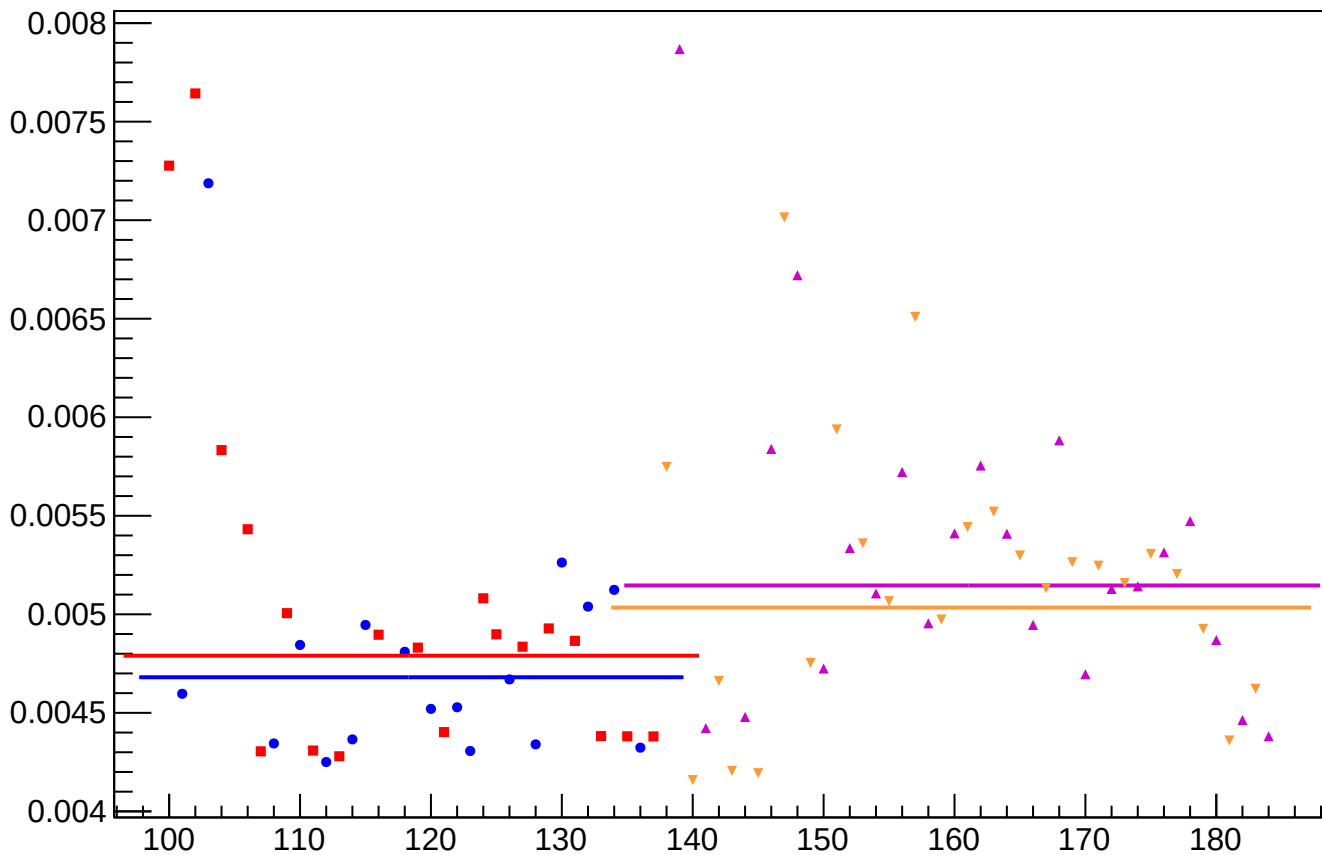
Right: -0.224+/-0.000 χ^2/NDF : 242124166.5/35

In: -0.225+/-0.000 χ^2/NDF : 90238959.6/39

Out: -0.225+/-0.000 χ^2/NDF : 190302588.6/42

All: -0.225+/-0.000 χ^2/NDF : 280551933.4/82

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 180630.9/16

Left Out: 0.005+/-0.000 χ^2/NDF : 509099.5/23

Right Out: 0.005+/-0.000 χ^2/NDF : 248518.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1010229.2/46

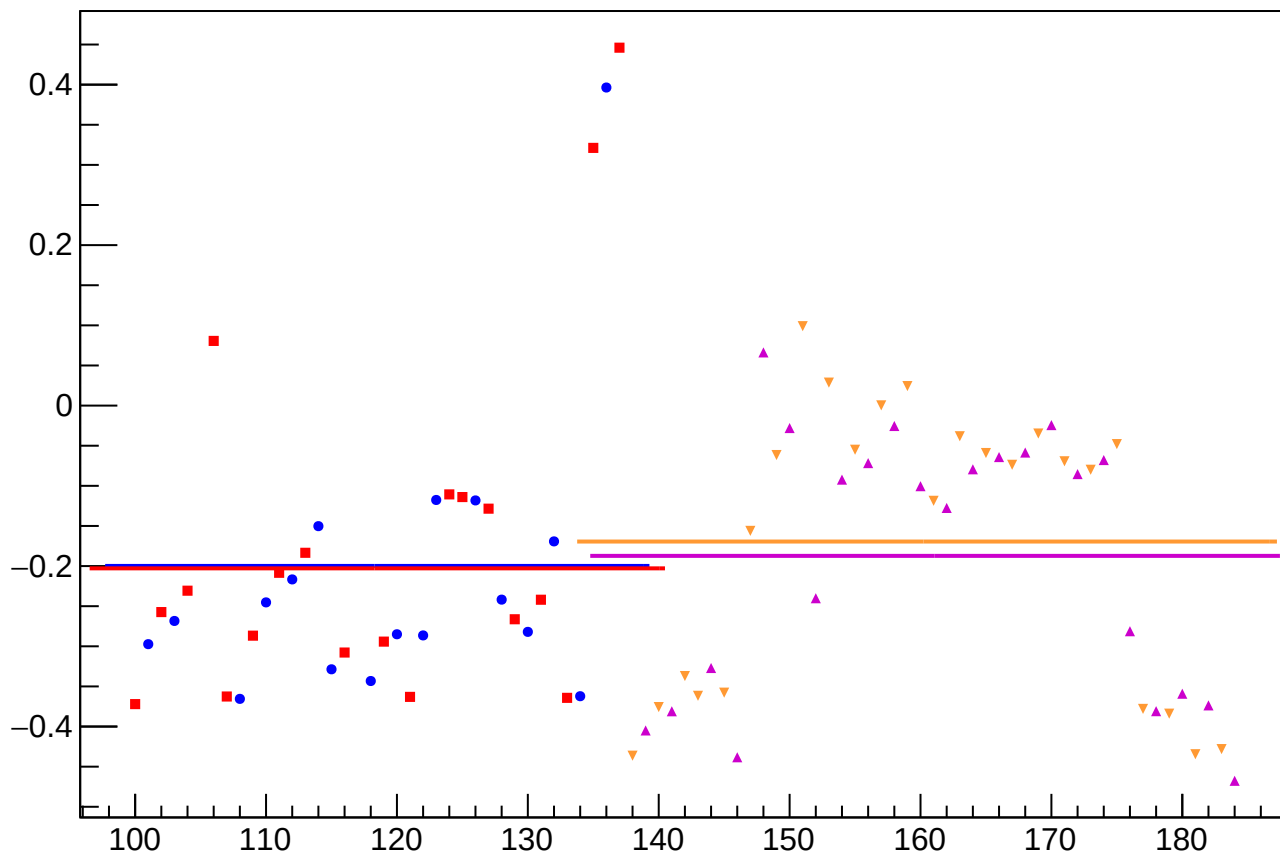
Right: 0.005+/-0.000 χ^2/NDF : 432453.6/35

In: 0.005+/-0.000 χ^2/NDF : 756112.5/39

Out: 0.005+/-0.000 χ^2/NDF : 781036.2/42

All: 0.005+/-0.000 χ^2/NDF : 1538618.5/82

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200 ± 0.000 χ^2/NDF : 5966157035.1/16

Left Out: -0.169 ± 0.000 χ^2/NDF : 17195554410.1/23

Right Out: -0.203 ± 0.000 χ^2/NDF : 5025528680.0/18

Left In: -0.187 ± 0.000 χ^2/NDF : 12816646575.4/22

Left: -0.178 ± 0.000 χ^2/NDF : 30100955341.6/46

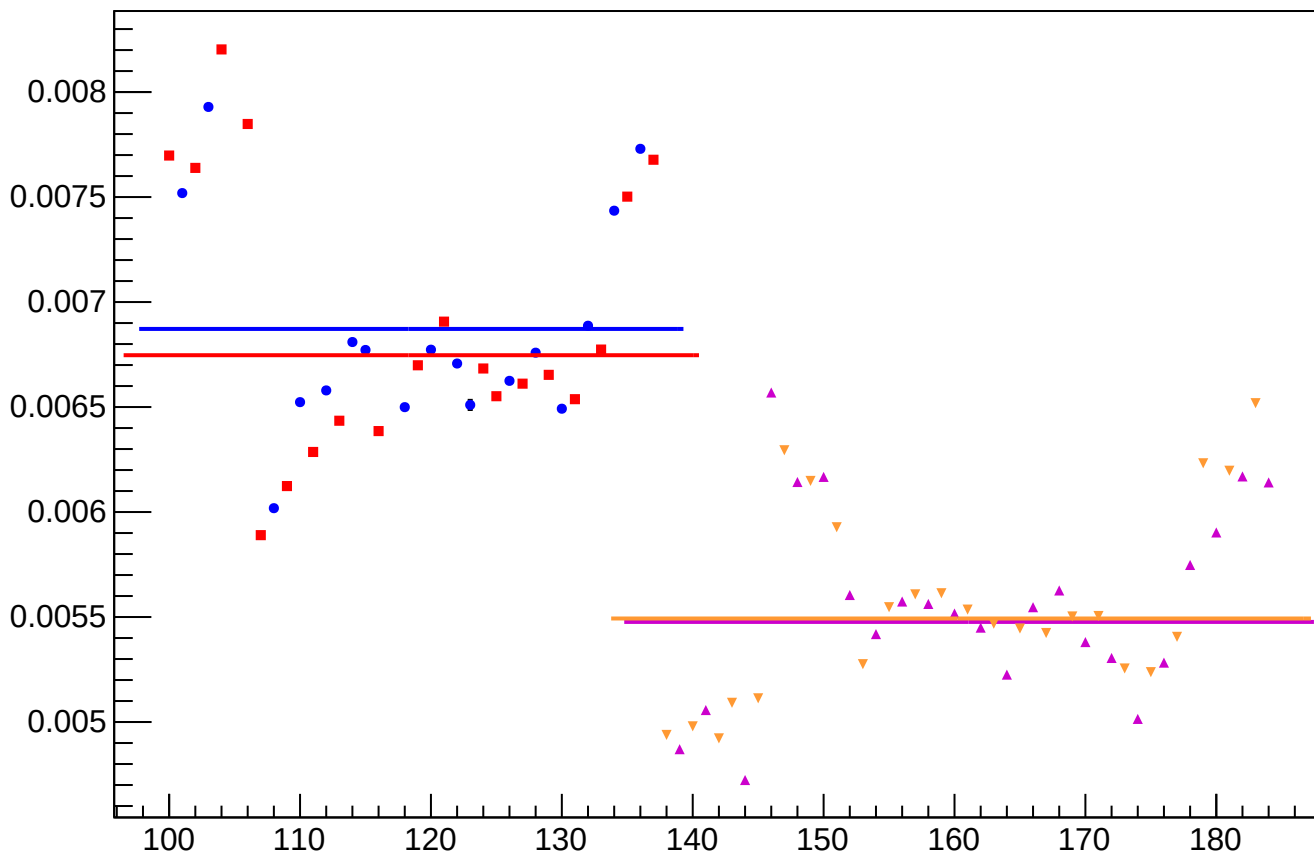
Right: -0.201 ± 0.000 χ^2/NDF : 10992344993.2/35

In: -0.190 ± 0.000 χ^2/NDF : 18800196004.2/39

Out: -0.176 ± 0.000 χ^2/NDF : 22353972343.6/42

All: -0.183 ± 0.000 χ^2/NDF : 41216904343.8/79

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 78685.4/16

Left Out: 0.005+/-0.000 χ^2/NDF :190625.6/23

Right Out: 0.007+/-0.000 χ^2/NDF : 105420.2/18

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 392955.2/46

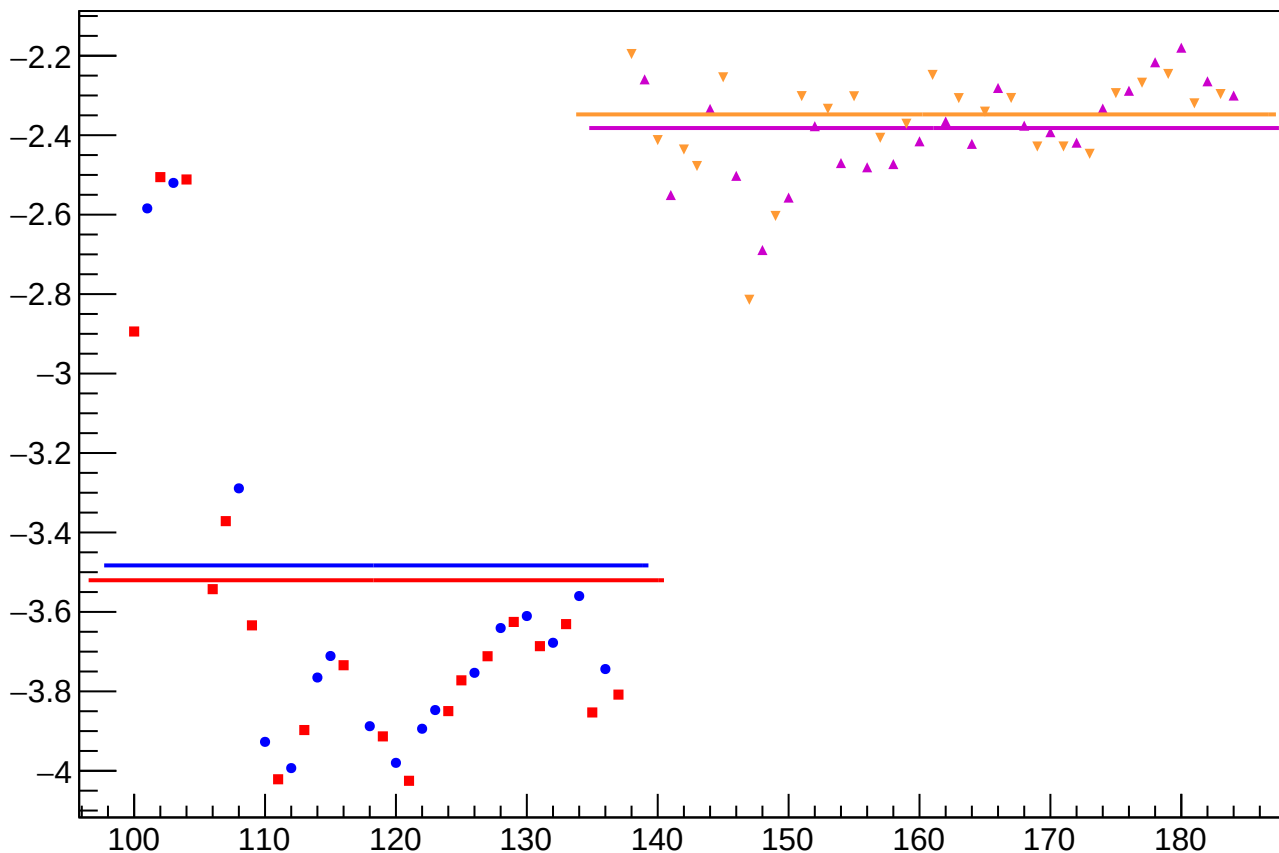
Right: 0.007+/-0.000 χ^2/NDF : 186365.3/35

In: 0.006+/-0.000 χ^2/NDF :711133.9/39

Out: 0.006+/-0.000 χ^2/NDF :670137.6/42

All: 0.006+/-0.000 χ^2/NDF : 1381275.8/82

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.483+/-0.000 χ^2/NDF : 27157654838.2/16

Left Out: -2.348+/-0.000 χ^2/NDF : 2137278833.7/23

Right Out: -3.520+/-0.000 χ^2/NDF : 26453336521.2/18

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4583585001.1/46

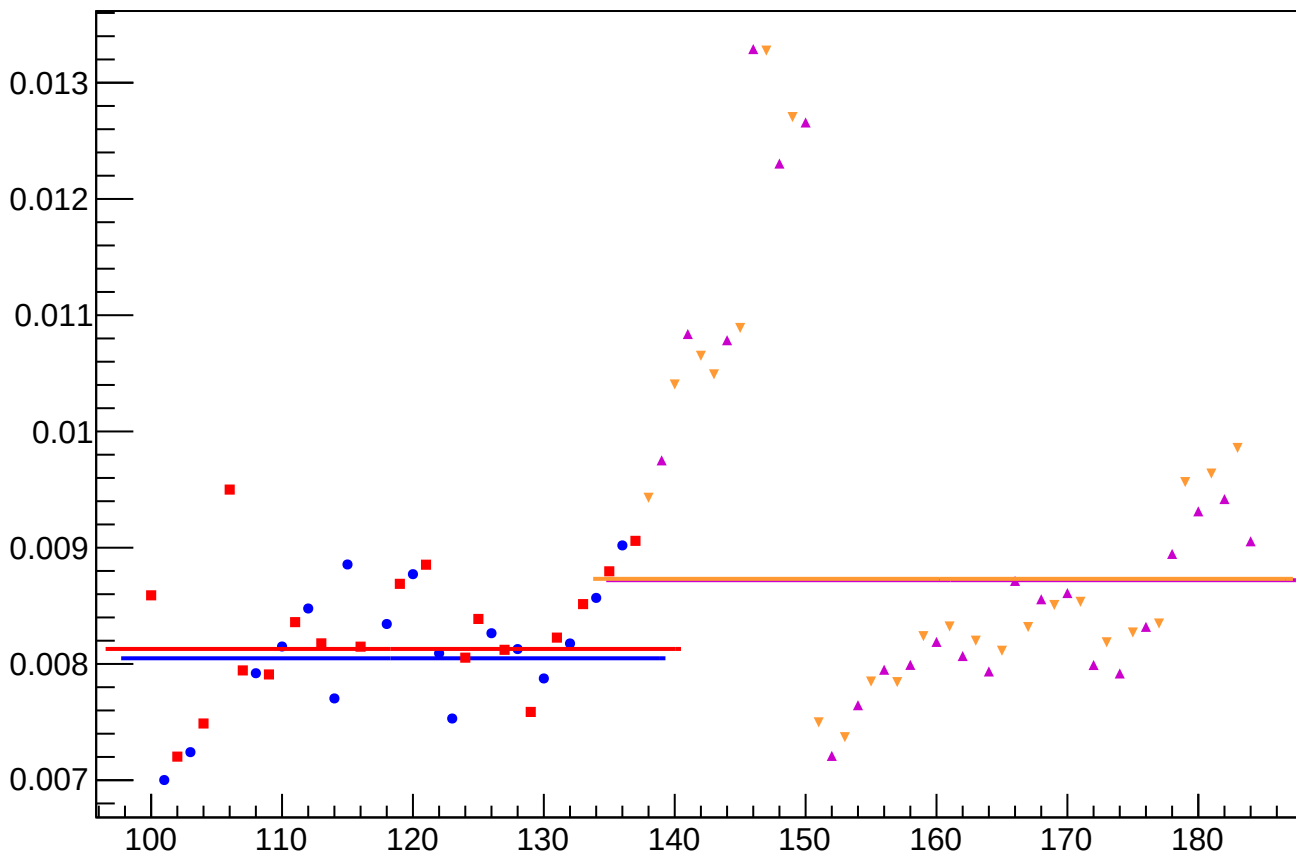
Right: -3.502+/-0.000 χ^2/NDF : 53681520881.9/35

In: -2.734+/-0.000 χ^2/NDF : 112054853544.7/39

Out: -2.718+/-0.000 χ^2/NDF : 124704237594.7/42

All: -2.726+/-0.000 χ^2/NDF : 236797292727.2

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 72176.4/16

Left Out: 0.009+/-0.000 χ^2/NDF : 652428.0/23

Right Out: 0.008+/-0.000 χ^2/NDF : 57777.8/18

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1400324.3/46

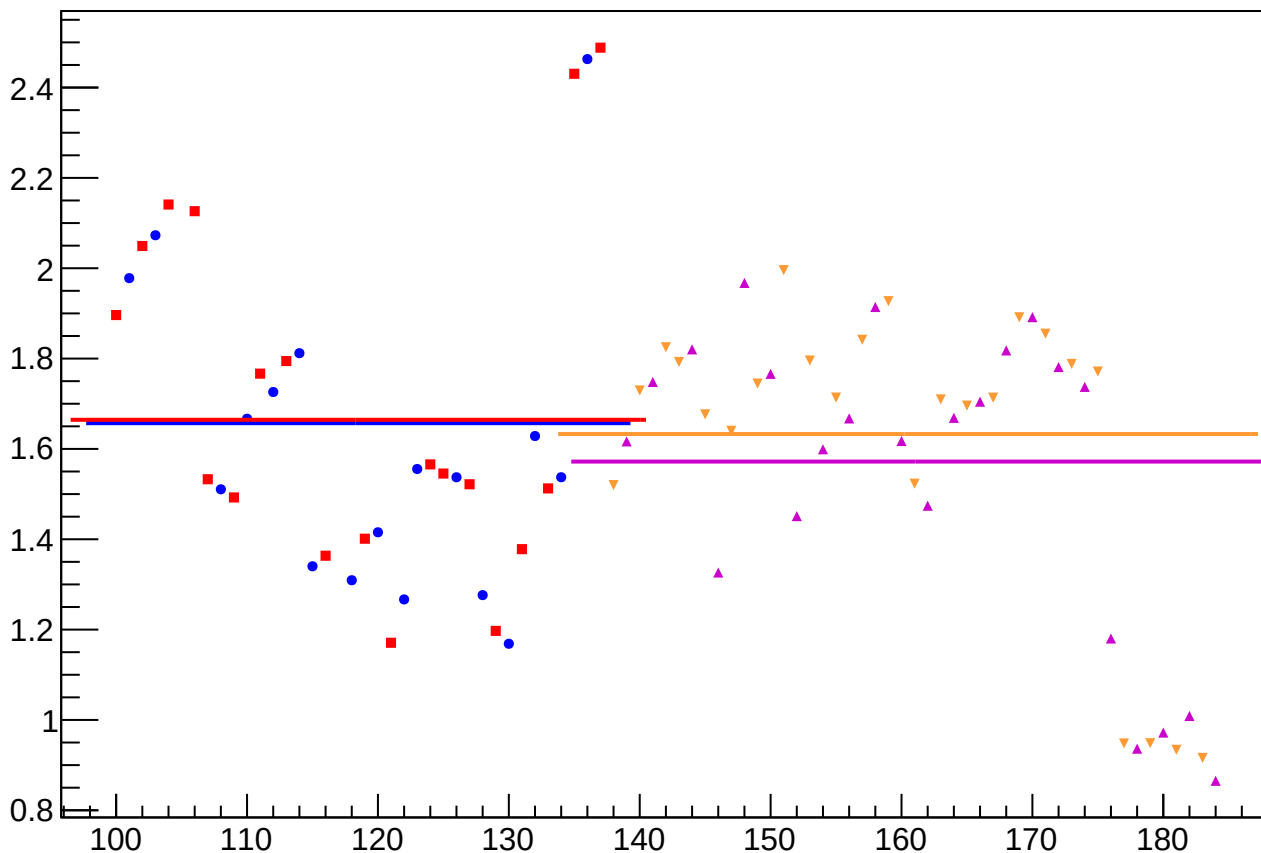
Right: 0.008+/-0.000 χ^2/NDF : 130608.9/35

In: 0.009+/-0.000 χ^2/NDF : 881545.7/39

Out: 0.009+/-0.000 χ^2/NDF : 761034.4/42

All: 0.009+/-0.000 χ^2/NDF : 1642985.4/82

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657 $\pm$ 0.000 χ^2 /NDF: 6432420267.9/16

Left Out: 1.633 $\pm$ 0.000 χ^2 /NDF: 15447292738.8/23

Right Out: 1.664 $\pm$ 0.000 χ^2 /NDF: 5940917748.5/18

Left In: 1.572 $\pm$ 0.000 χ^2 /NDF: 14230484809.4/22

Left: 1.603 $\pm$ 0.000 χ^2 /NDF: 29957184911.3/46

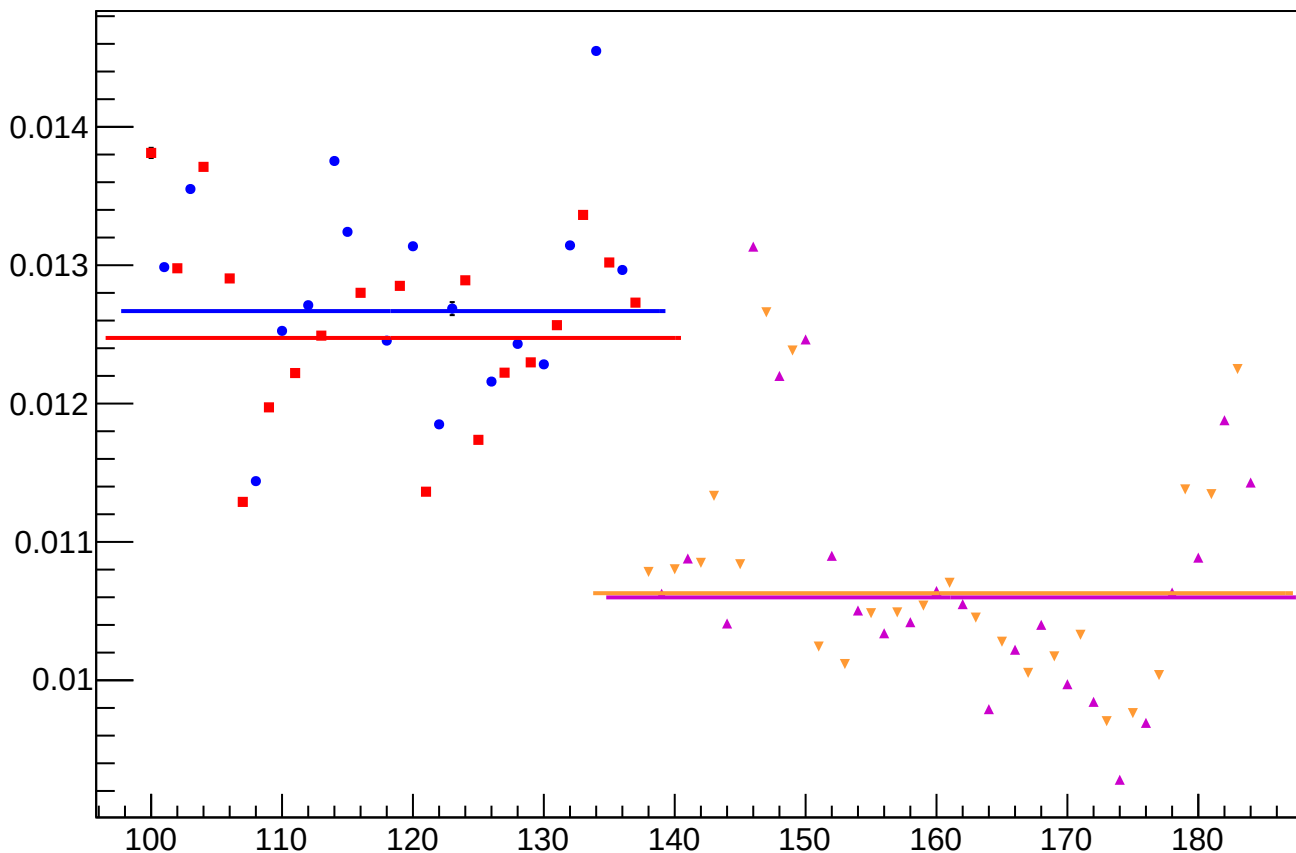
Right: 1.661 $\pm$ 0.000 χ^2 /NDF: 12374534399.5/35

In: 1.590 $\pm$ 0.000 χ^2 /NDF: 20893525666.7/39

Out: 1.640 $\pm$ 0.000 χ^2 /NDF: 21422340963.3/42

All: 1.616 $\pm$ 0.000 χ^2 /NDF: 42553356421.8/80

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31725.8/16

Left Out: 0.011+/-0.000 χ^2/NDF :157492.4/23

Right Out: 0.012+/-0.000 χ^2/NDF : 38559.4/18

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 362161.7/46

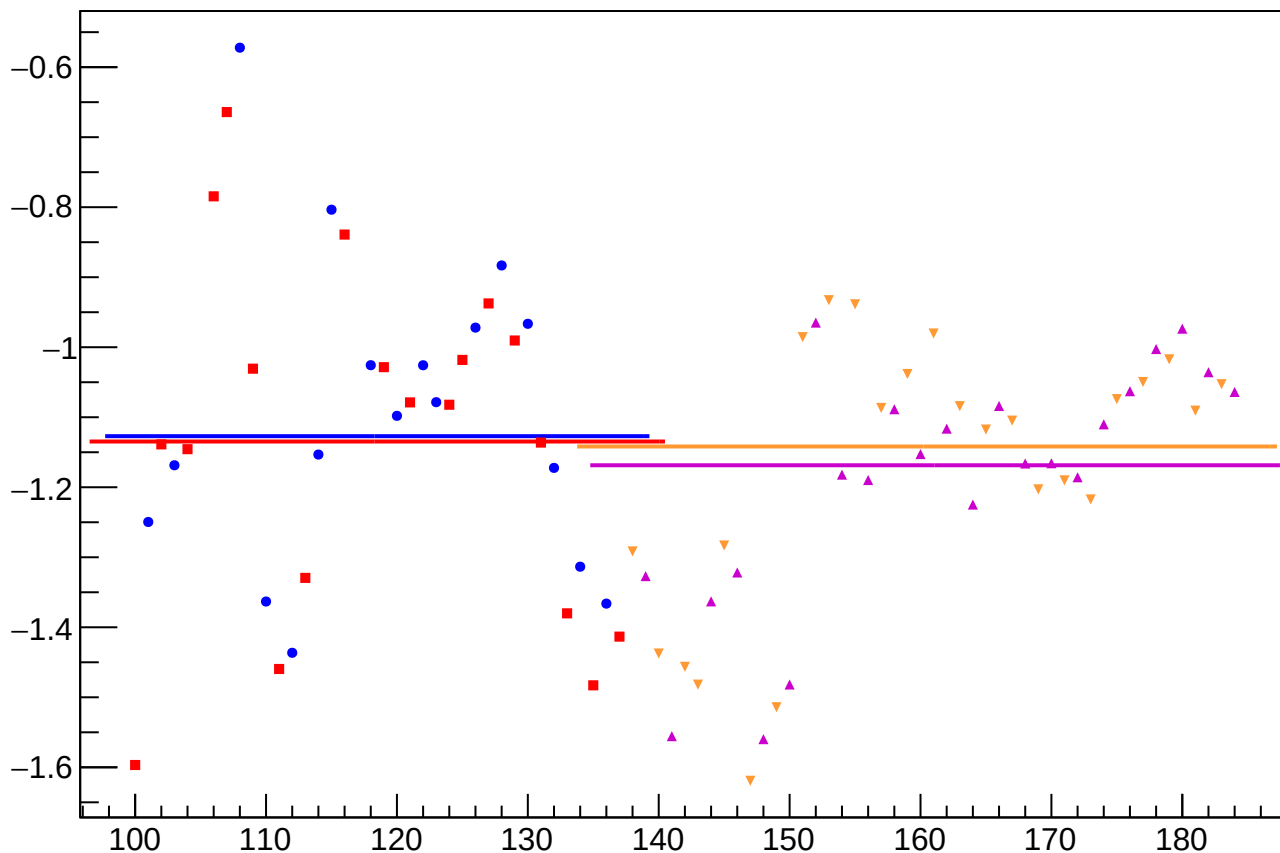
Right: 0.013+/-0.000 χ^2/NDF : 71882.0/35

In: 0.011+/-0.000 χ^2/NDF :509684.4/39

Out: 0.011+/-0.000 χ^2/NDF :429261.7/42

All: 0.011+/-0.000 χ^2/NDF : 938950.2/82

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.127 $\pm$ 0.000 χ^2 /NDF: 3546179478.6/16

Left Out: -1.142 $\pm$ 0.000 χ^2 /NDF: 7780143030.7/23

Right Out: -1.135 $\pm$ 0.000 χ^2 /NDF: 3674870672.6/18

Left In: -1.169 $\pm$ 0.000 χ^2 /NDF: 6362643368.6/22

Left: -1.155 $\pm$ 0.000 χ^2 /NDF: 14239390508.9/46

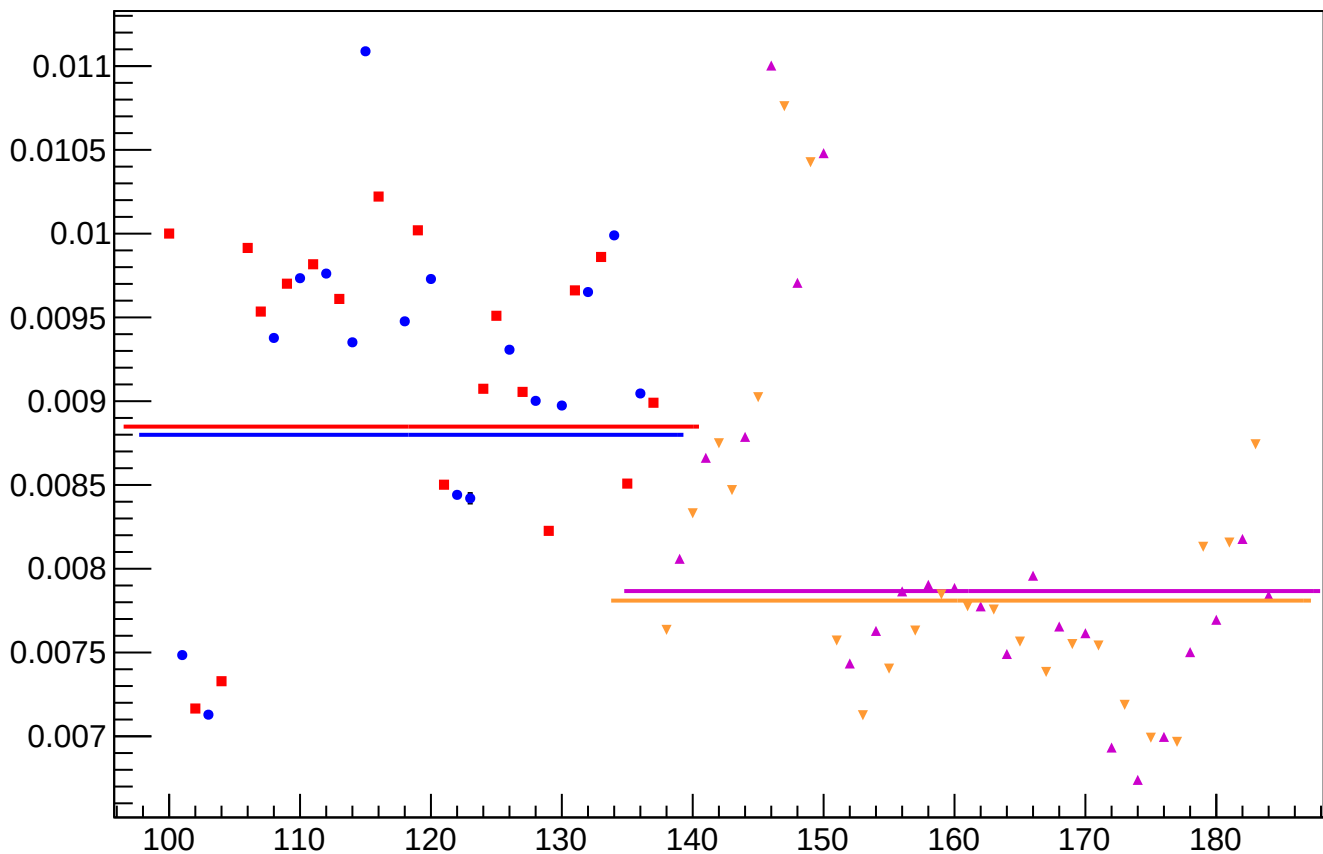
Right: -1.131 $\pm$ 0.000 χ^2 /NDF: 7223462061.2/35

In: -1.159 $\pm$ 0.000 χ^2 /NDF: 10016669125.0/39

Out: -1.140 $\pm$ 0.000 χ^2 /NDF: 11458263384.5/42

All: -1.149 $\pm$ 0.000 χ^2 /NDF: 21535655013.2/80

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 151524.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 330714.8/23

Right Out: 0.009+/-0.000 χ^2/NDF : 174016.9/18

Left In: 0.008+/-0.000 χ^2/NDF : 379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 711485.3/46

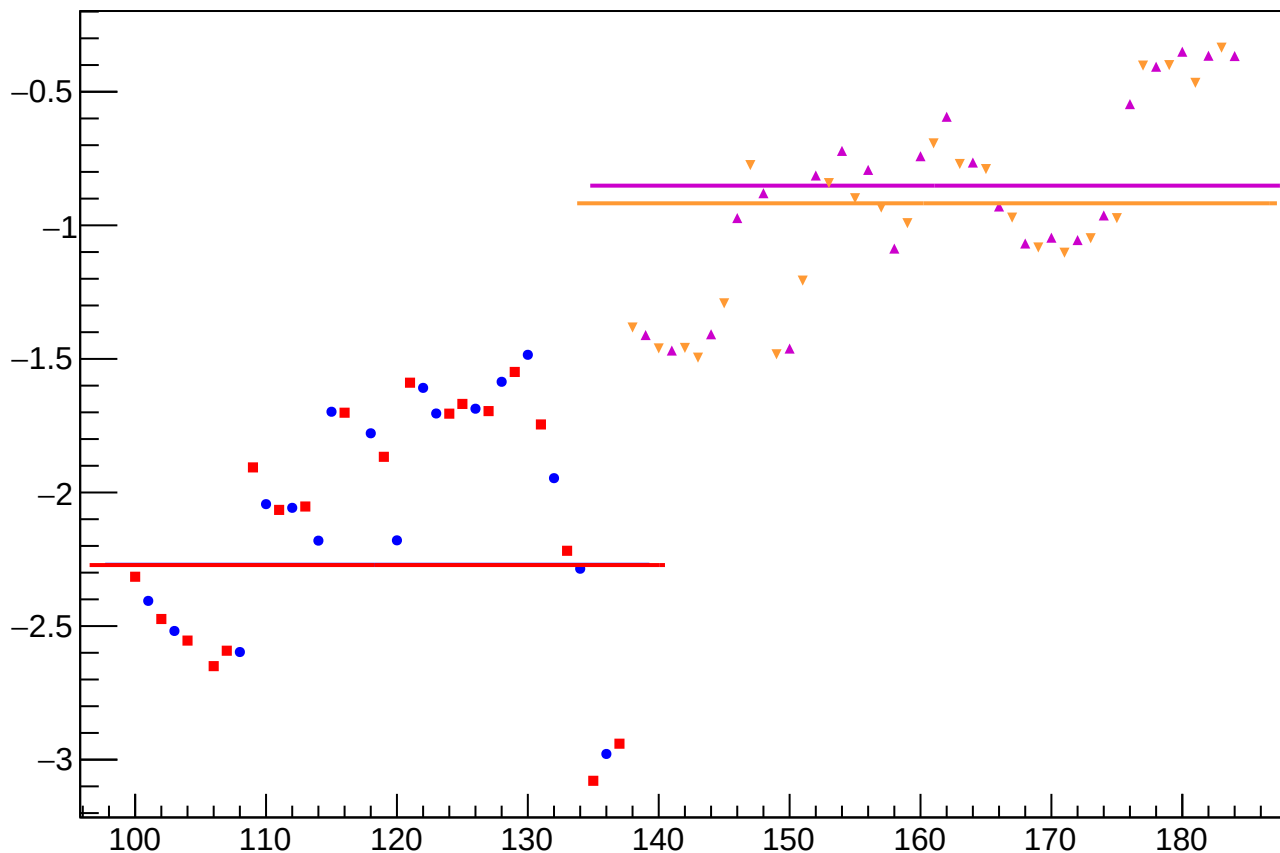
Right: 0.009+/-0.000 χ^2/NDF : 325740.2/35

In: 0.008+/-0.000 χ^2/NDF : 640088.7/39

Out: 0.008+/-0.000 χ^2/NDF : 643792.2/42

All: 0.008+/-0.000 χ^2/NDF : 1284333.3/82

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.271+/-0.000 χ^2/NDF : 17322622121.9/16

Left Out: -0.918+/-0.000 χ^2/NDF : 46874539141.2/23

Right Out: -2.272+/-0.000 χ^2/NDF : 19002792241.6/18

Left In: -0.851+/-0.000 χ^2/NDF : 46438446008.2/22

Left: -0.885+/-0.000 χ^2/NDF : 94266227506.2/46

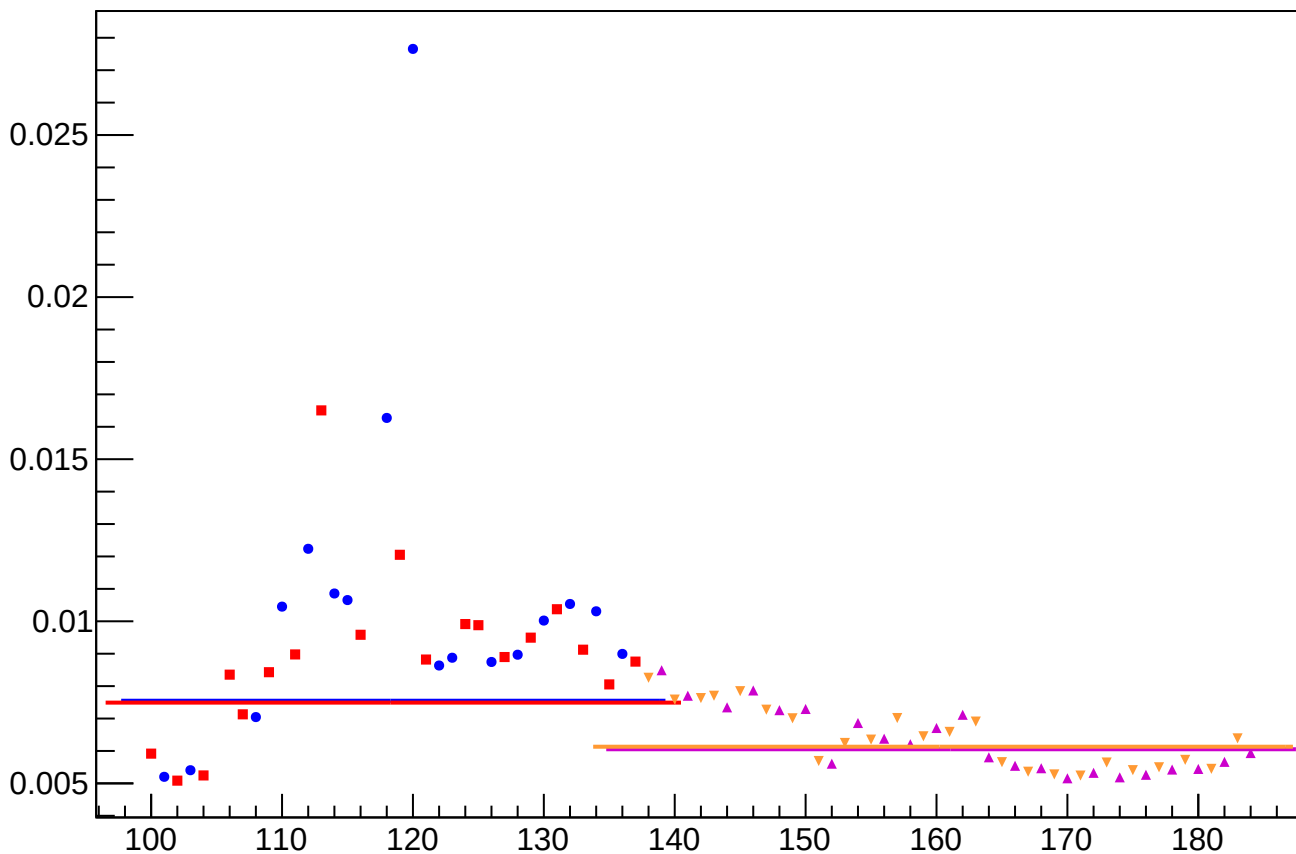
Right: -2.271+/-0.000 χ^2/NDF : 36325463324.0/35

In: -1.090+/-0.000 χ^2/NDF : 211227475890.4/39

Out: -1.168+/-0.000 χ^2/NDF : 214673496532.5/42

All: -1.130+/-0.000 χ^2/NDF : 427516770382.4

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1215131.1/16

Left Out: 0.006+/-0.000 χ^2/NDF : 624712.2/23

Right Out: 0.007+/-0.000 χ^2/NDF : 926036.5/18

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1324979.8/46

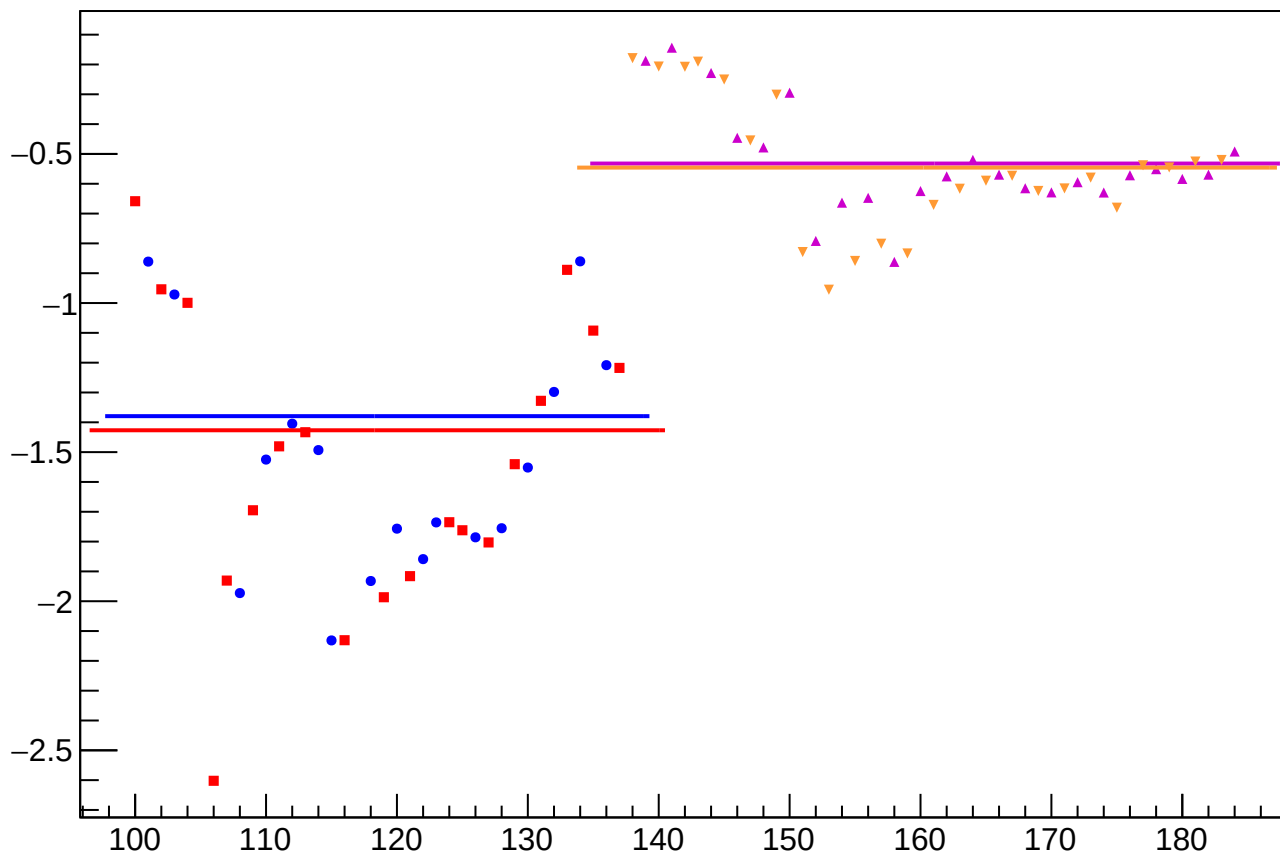
Right: 0.008+/-0.000 χ^2/NDF : 2141481.5/35

In: 0.006+/-0.000 χ^2/NDF : 2240719.4/39

Out: 0.006+/-0.000 χ^2/NDF : 1851018.1/42

All: 0.006+/-0.000 χ^2/NDF : 4095010.3/82

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.379+/-0.000 χ^2/NDF : 19933785465.4/16

Left Out: -0.546+/-0.000 χ^2/NDF : 46223905101.7/23

Right Out: -1.427+/-0.000 χ^2/NDF : 29588471982.5/18

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.539+/-0.000 χ^2/NDF : 77027060555.6/46

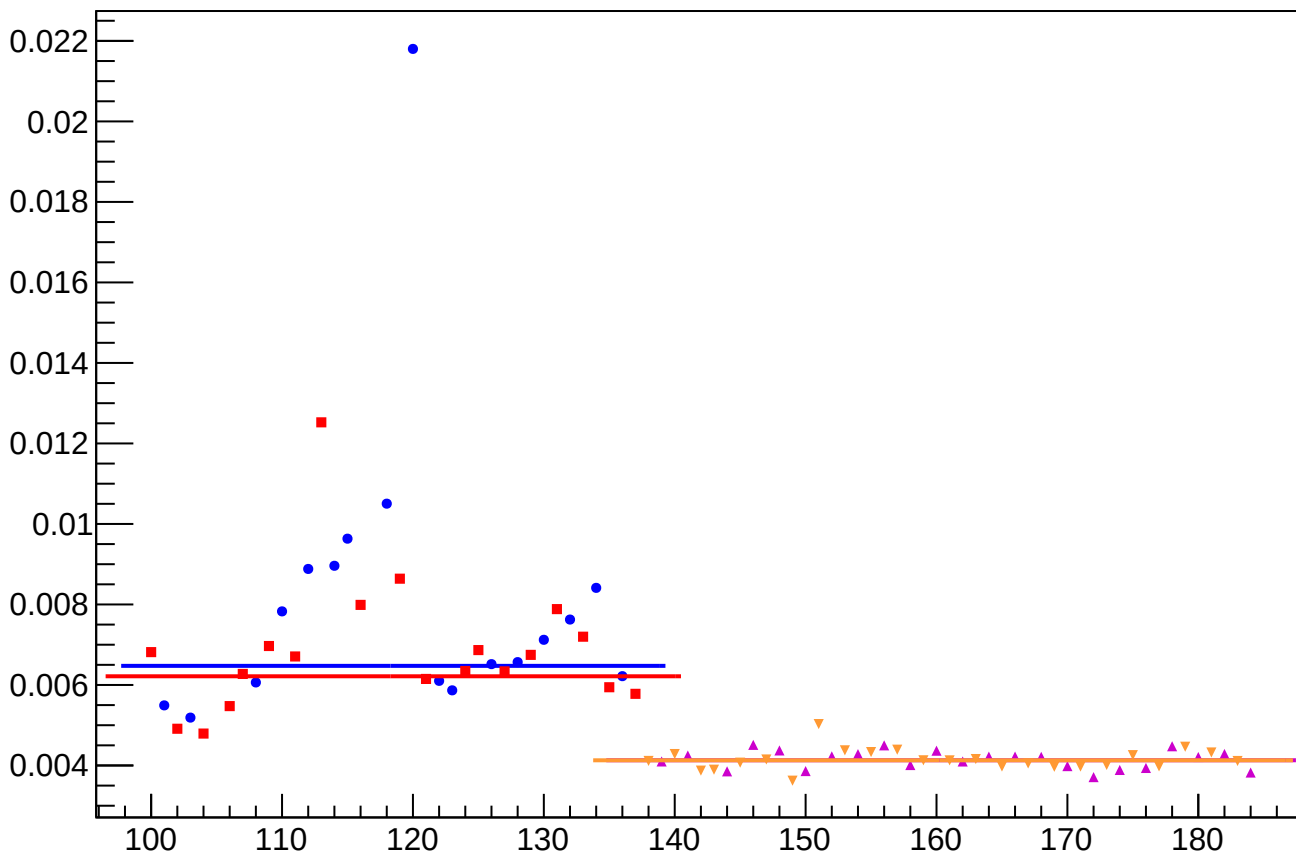
Right: -1.405+/-0.000 χ^2/NDF : 49678951559.0/35

In: -0.635+/-0.000 χ^2/NDF : 132268066693.4/39

Out: -0.665+/-0.000 χ^2/NDF : 177648980938.5/42

All: -0.650+/-0.000 χ^2/NDF : 310404527234.8

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 570434.3/16

Left Out: 0.004+/-0.000 χ^2/NDF :111162.7/23

Right Out: 0.006+/-0.000 χ^2/NDF : 418205.6/18

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 204275.2/46

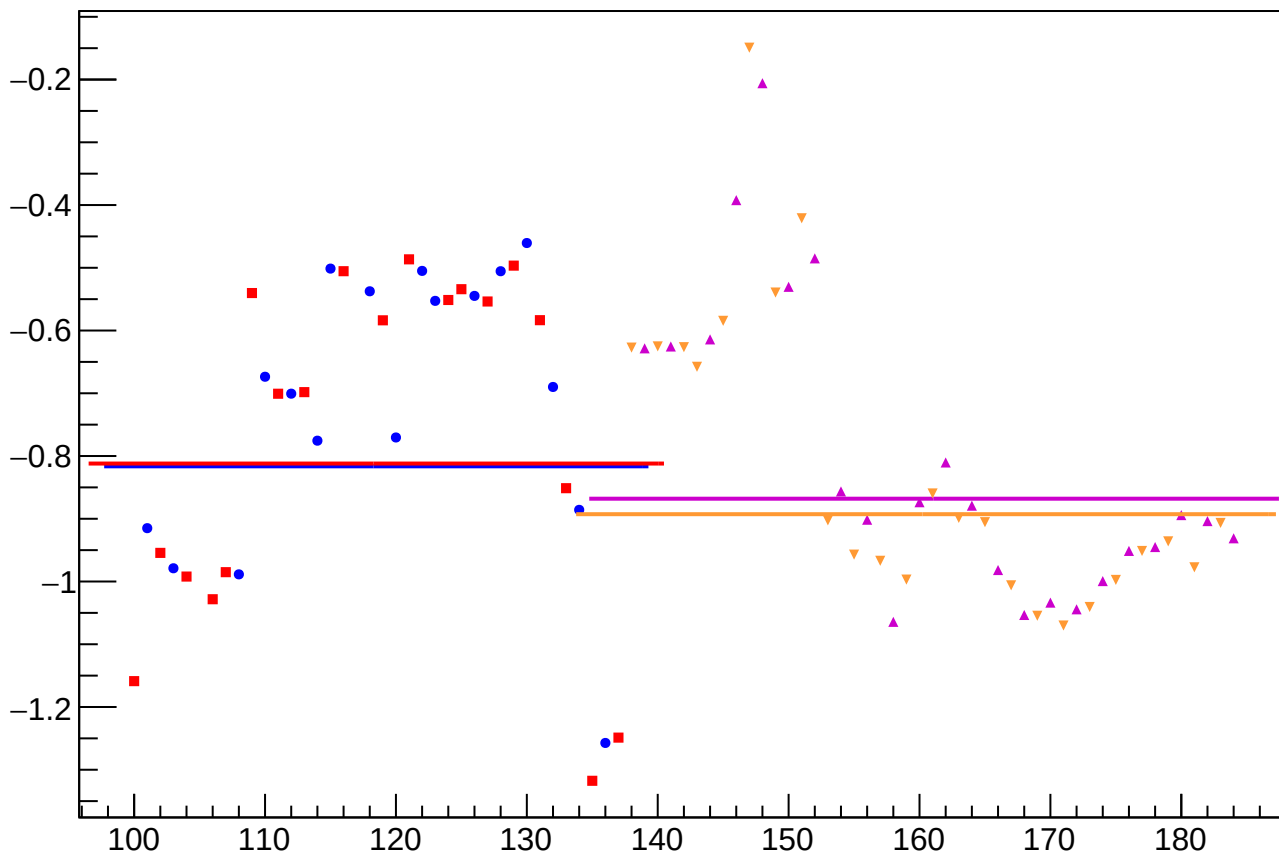
Right: 0.006+/-0.000 χ^2/NDF : 998013.7/35

In: 0.004+/-0.000 χ^2/NDF :1914472.7/39

Out: 0.004+/-0.000 χ^2/NDF :1672811.9/42

All: 0.004+/-0.000 χ^2/NDF : 3587299.0/82

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 $\pm$ 0.000 χ^2/NDF : 14108272810.0/16

Left Out: -0.893 $\pm$ 0.000 χ^2/NDF : 40585532587.7/23

Right Out: -0.812 $\pm$ 0.000 χ^2/NDF : 16809508448.8/18

Left In: -0.868 $\pm$ 0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880 $\pm$ 0.000 χ^2/NDF : 84777878651.2/46

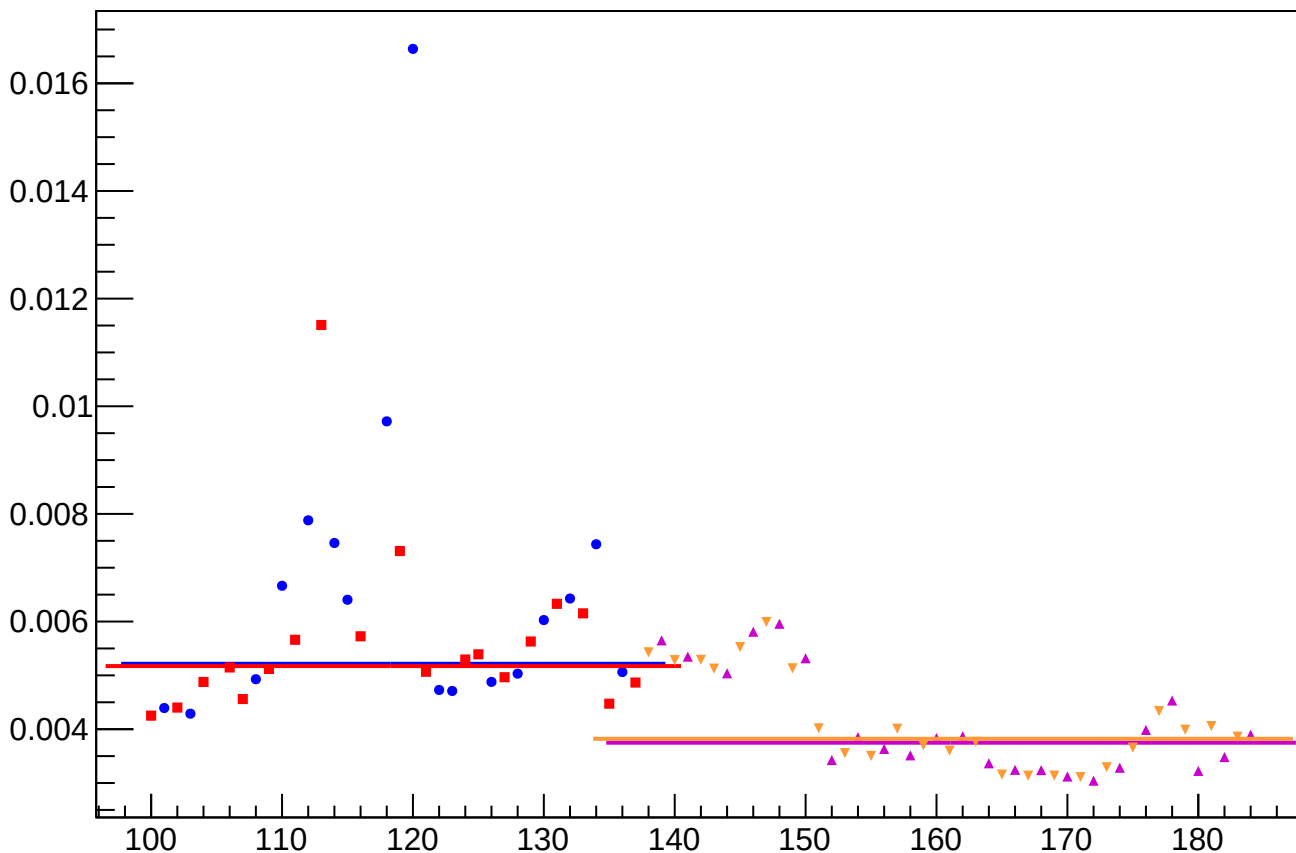
Right: -0.814 $\pm$ 0.000 χ^2/NDF : 30919803478.2/35

In: -0.860 $\pm$ 0.000 χ^2/NDF : 58405201980.4/39

Out: -0.879 $\pm$ 0.000 χ^2/NDF : 58597639128.9/42

All: -0.870 $\pm$ 0.000 χ^2/NDF : 117240197917.6

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 662832.6/16

Left Out: 0.004+/-0.000 χ^2/NDF :1157646.2/23

Right Out: 0.005+/-0.000 χ^2/NDF : 359707.6/18

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2451996.7/46

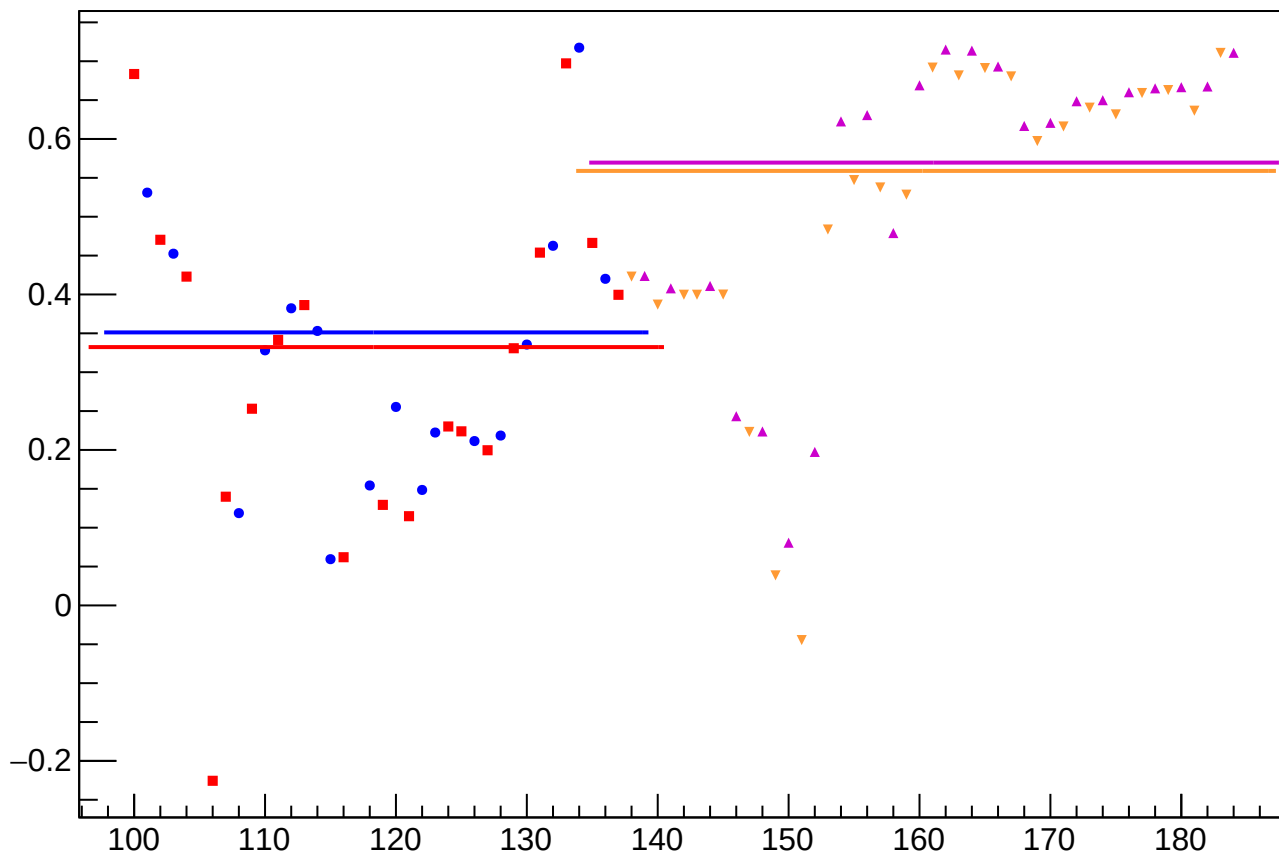
Right: 0.005+/-0.000 χ^2/NDF : 1022911.9/35

In: 0.004+/-0.000 χ^2/NDF :2667316.1/39

Out: 0.004+/-0.000 χ^2/NDF :2191229.5/42

All: 0.004+/-0.000 χ^2/NDF : 4866737.7/82

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7385246200.8/16

Left: 0.564+/-0.000

χ^2/NDF : 86754618592.5/46

Left Out: 0.559+/-0.000

χ^2/NDF : 44560648580.3/23

Right: 0.341+/-0.000

χ^2/NDF : 19234190594.7/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11783358695.7/18

In: 0.530+/-0.000

χ^2/NDF : 62979079372.7/39

Out: 0.514+/-0.000

χ^2/NDF : 72513760223.2/42

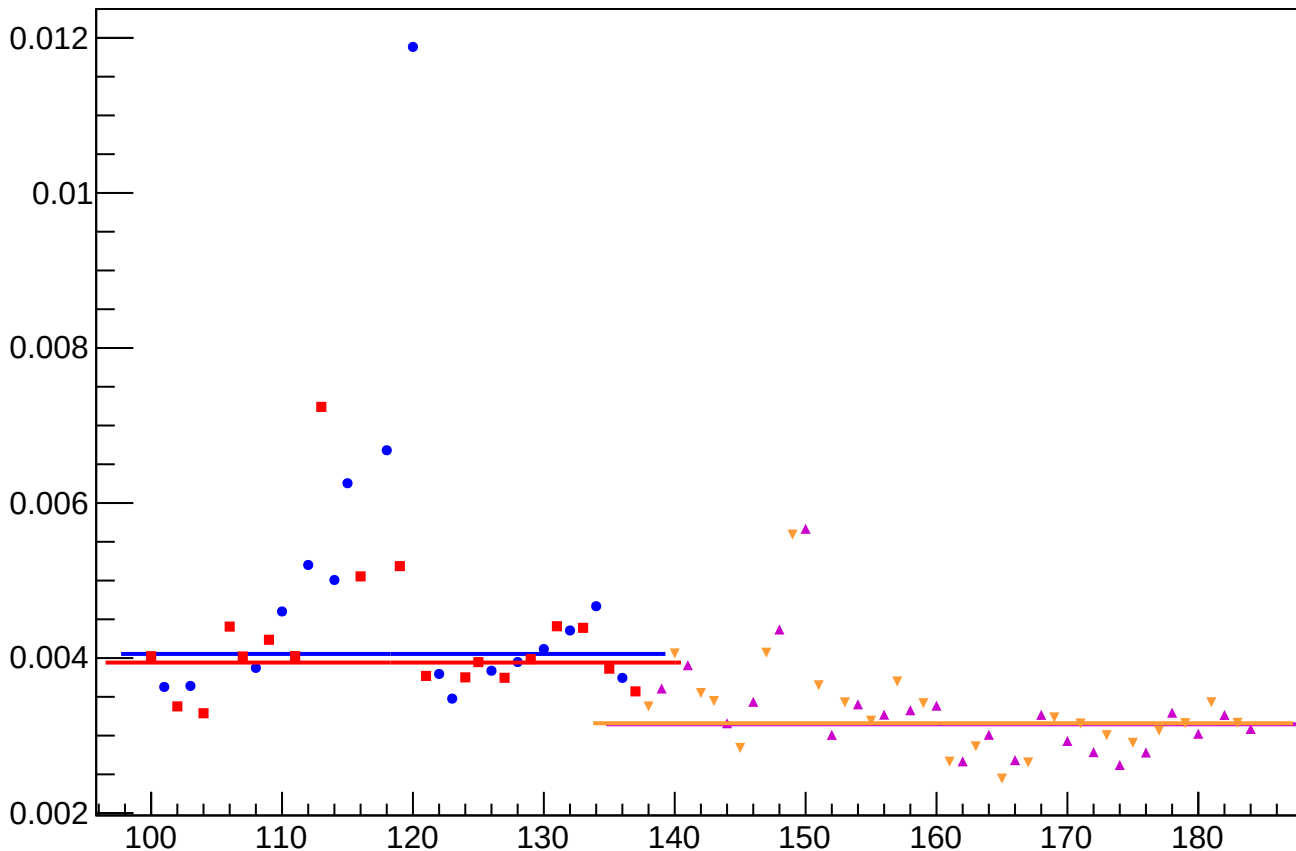
Left In: 0.570+/-0.000

χ^2/NDF : 42104067973.0/22

All: 0.522+/-0.000

χ^2/NDF : 135735813984.1

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 453717.7/16

Left Out: 0.003+/-0.000 χ^2/NDF : 736634.7/23

Right Out: 0.004+/-0.000 χ^2/NDF : 259219.7/18

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1453322.9/46

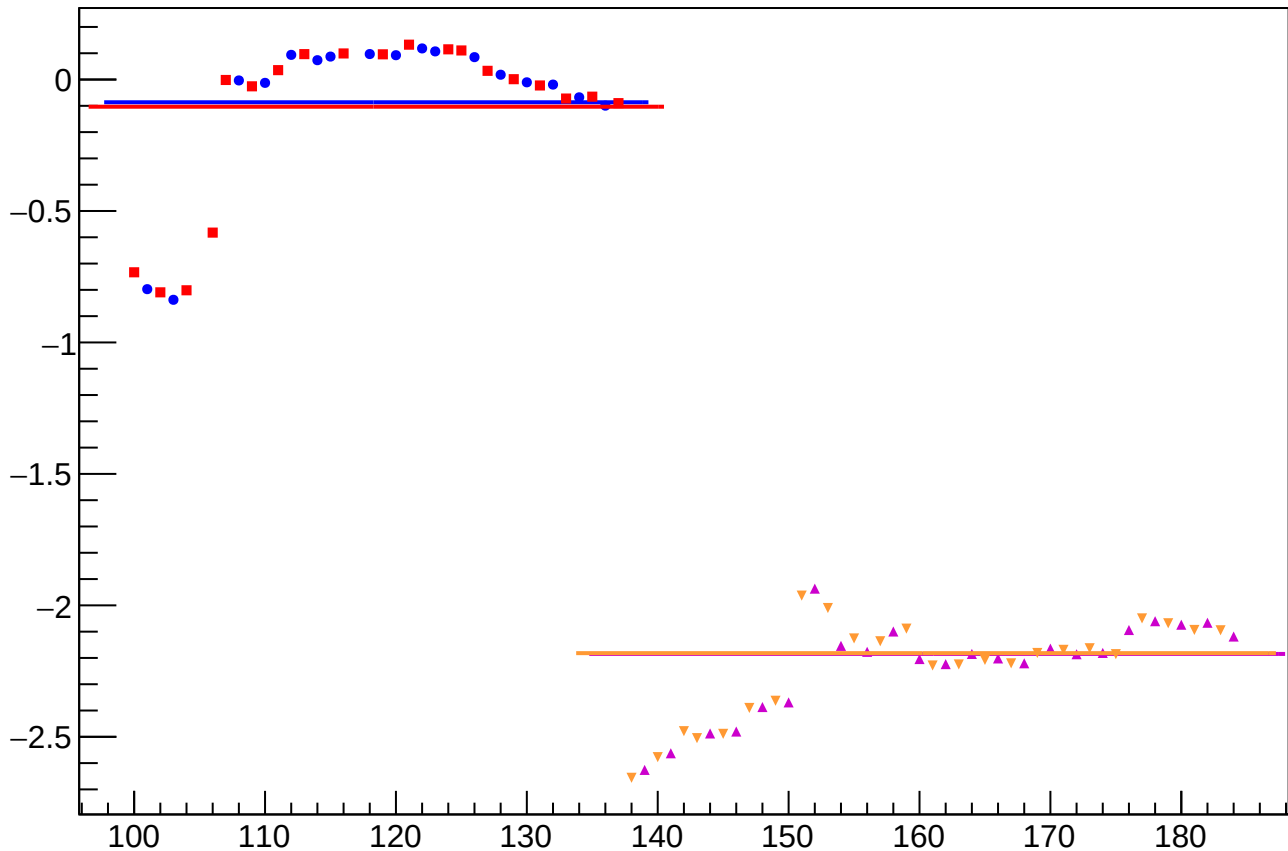
Right: 0.004+/-0.000 χ^2/NDF : 717489.4/35

In: 0.003+/-0.000 χ^2/NDF : 1635477.0/39

Out: 0.003+/-0.000 χ^2/NDF : 1381242.3/42

All: 0.003+/-0.000 χ^2/NDF : 3016741.5/82

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4986216359.8/16

Left Out: -2.182+/-0.000 χ^2/NDF : 3955703389.5/23

Right Out: -0.103+/-0.000 χ^2/NDF : 5547327629.3/18

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7329161650.2/46

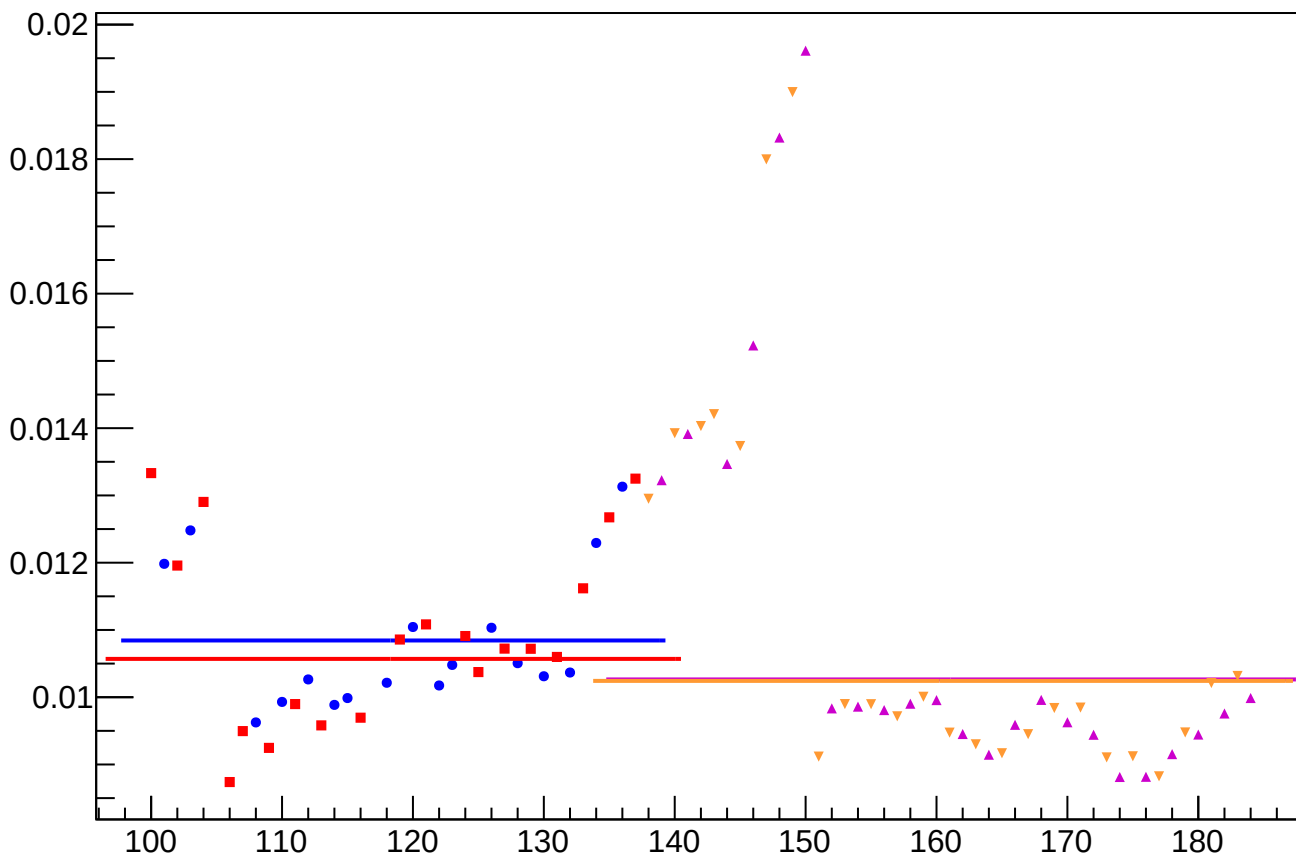
Right: -0.095+/-0.000 χ^2/NDF : 10541991957.2/35

In: -1.632+/-0.000 χ^2/NDF : 190830991623.0/39

Out: -1.610+/-0.000 χ^2/NDF : 205460647701.6/42

All: -1.621+/-0.000 χ^2/NDF : 396346731309.7

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124179.6/16

Left Out: 0.010+/-0.000 χ^2/NDF :1254659.6/23

Right Out: 0.011+/-0.000 χ^2/NDF : 178759.8/18

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2594998.8/46

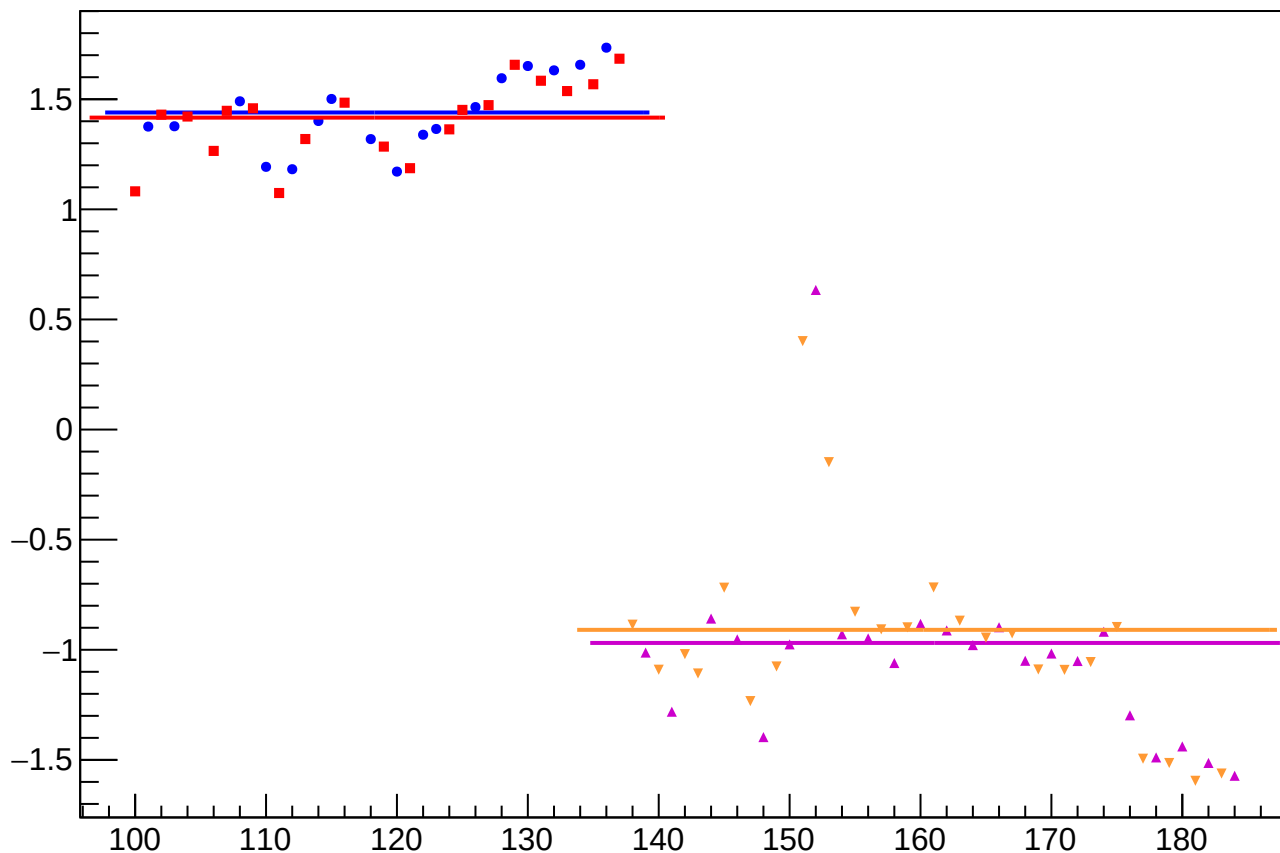
Right: 0.011+/-0.000 χ^2/NDF : 307381.8/35

In: 0.010+/-0.000 χ^2/NDF :1492254.8/39

Out: 0.010+/-0.000 χ^2/NDF :1443120.8/42

All: 0.010+/-0.000 χ^2/NDF : 2936935.0/82

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3439698839.5/16

Left Out: -0.909 $\pm$ 0.000 χ^2 /NDF: 54055389599.1/23

Right Out: 1.416 $\pm$ 0.000 χ^2 /NDF: 2670163204.9/18

Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

Left: -0.939 $\pm$ 0.000 χ^2 /NDF: 109381255028.8/46

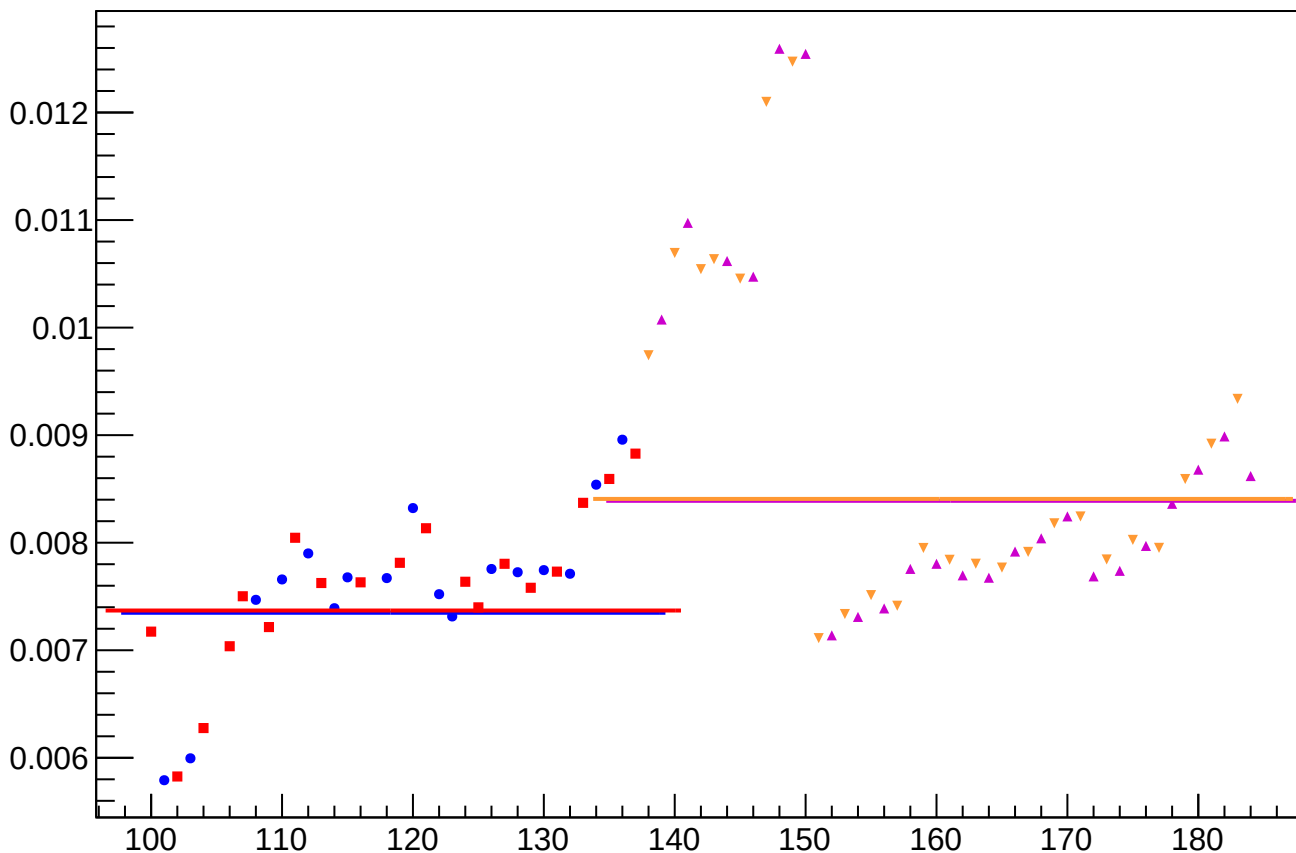
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6143895707.9/35

In: -0.158 $\pm$ 0.000 χ^2 /NDF: 526148939000.2/39

Out: -0.115 $\pm$ 0.000 χ^2 /NDF: 515452928999.9/42

All: -0.136 $\pm$ 0.000 χ^2 /NDF: 1041939461624

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228667.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 776730.0/23

Right Out: 0.007+/-0.000 χ^2/NDF : 172418.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1616686.2/46

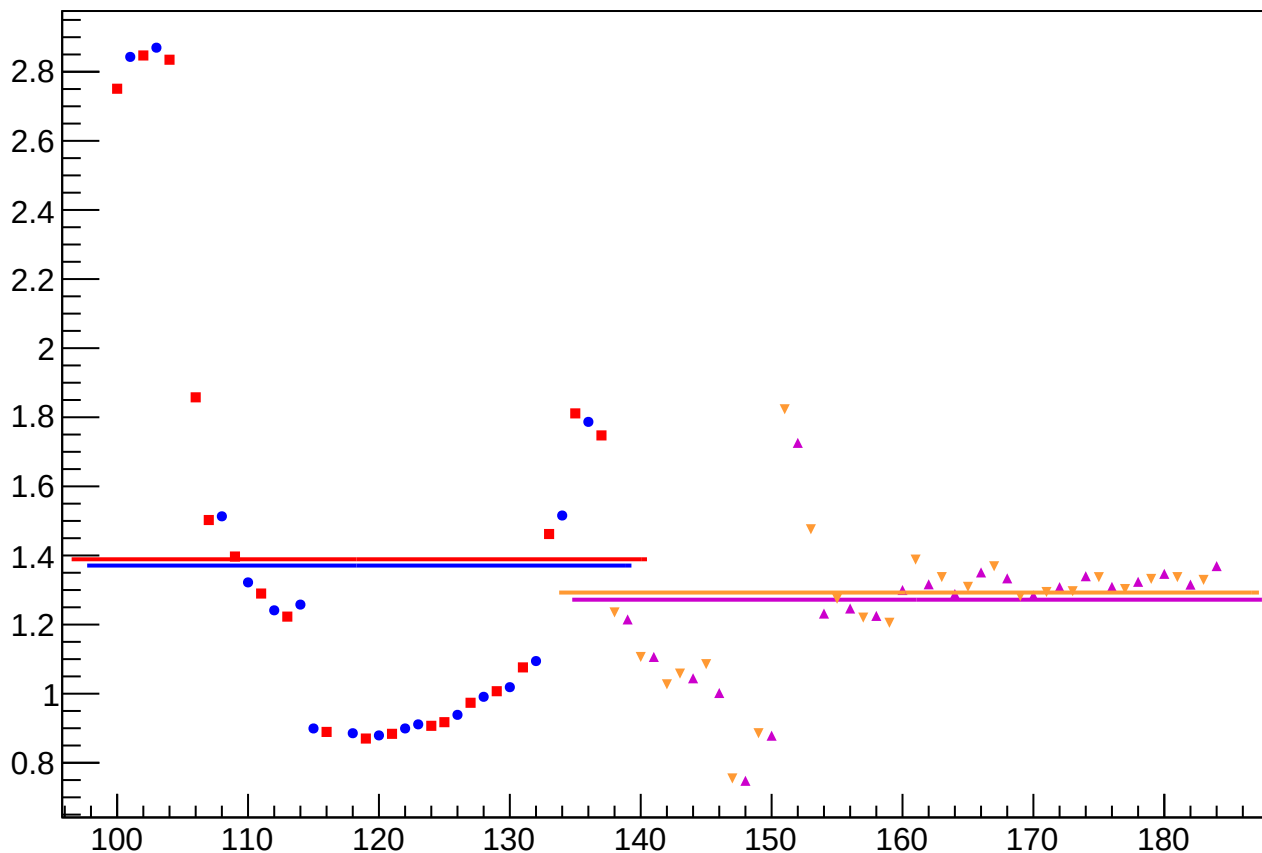
Right: 0.007+/-0.000 χ^2/NDF : 401140.2/35

In: 0.008+/-0.000 χ^2/NDF : 1243256.3/39

Out: 0.008+/-0.000 χ^2/NDF : 1131720.7/42

All: 0.008+/-0.000 χ^2/NDF : 2375046.6/82

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.371+/-0.000

χ^2/NDF : 54119122912.8/16

Left: 1.283+/-0.000

χ^2/NDF : 16835723227.4/46

Left Out: 1.293+/-0.000

χ^2/NDF : 9208140224.4/23

Right: 1.380+/-0.000

χ^2/NDF : 103976218990.2/35

Right Out: 1.389+/-0.000

χ^2/NDF : 49832414351.9/18

In: 1.309+/-0.000

χ^2/NDF : 62575705535.5/39

Out: 1.329+/-0.000

χ^2/NDF : 59939937875.2/42

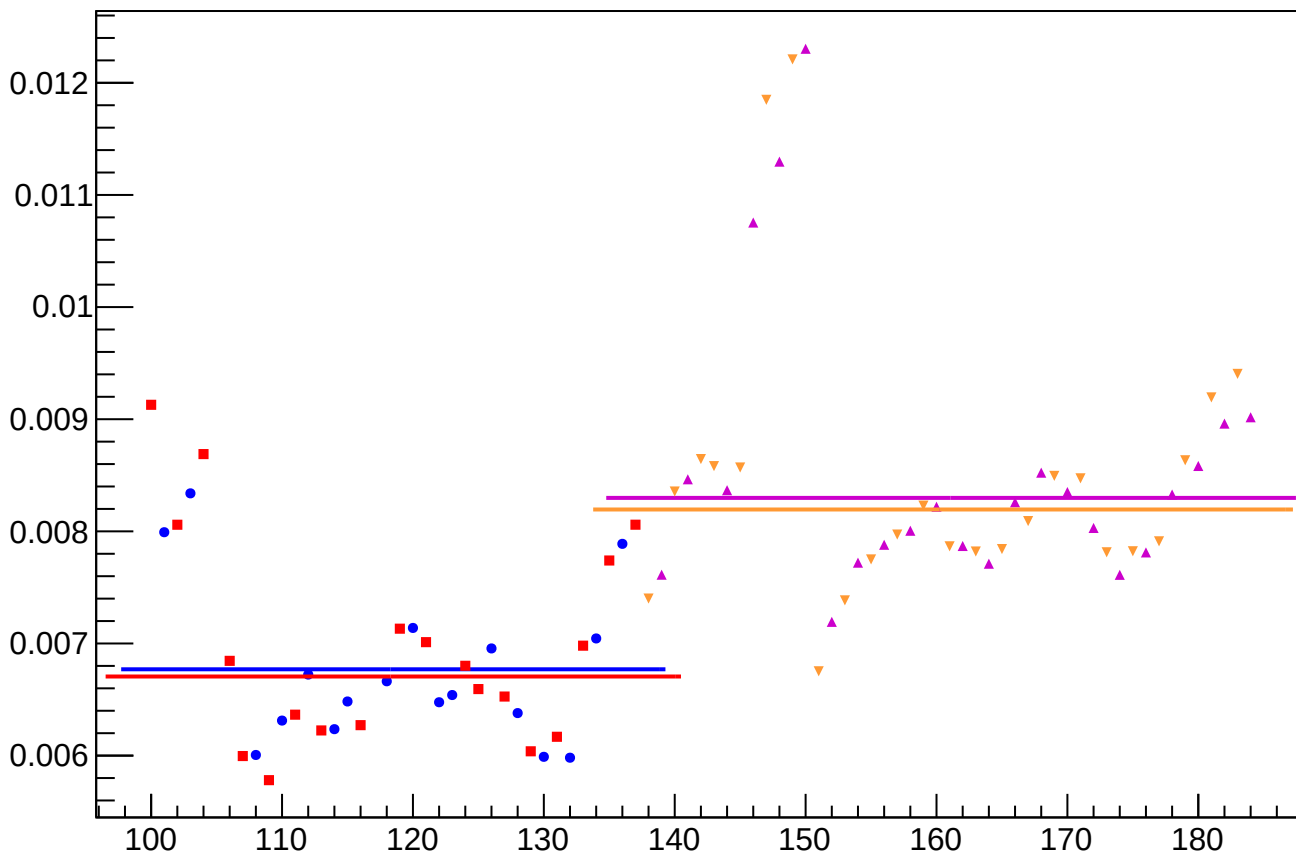
Left In: 1.272+/-0.000

χ^2/NDF : 7573930981.2/22

All: 1.319+/-0.000

χ^2/NDF : 122596678420.5

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 158743.1/16

Left Out: 0.008+/-0.000 χ^2/NDF : 471602.2/23

Right Out: 0.007+/-0.000 χ^2/NDF : 189225.3/18

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 936308.3/46

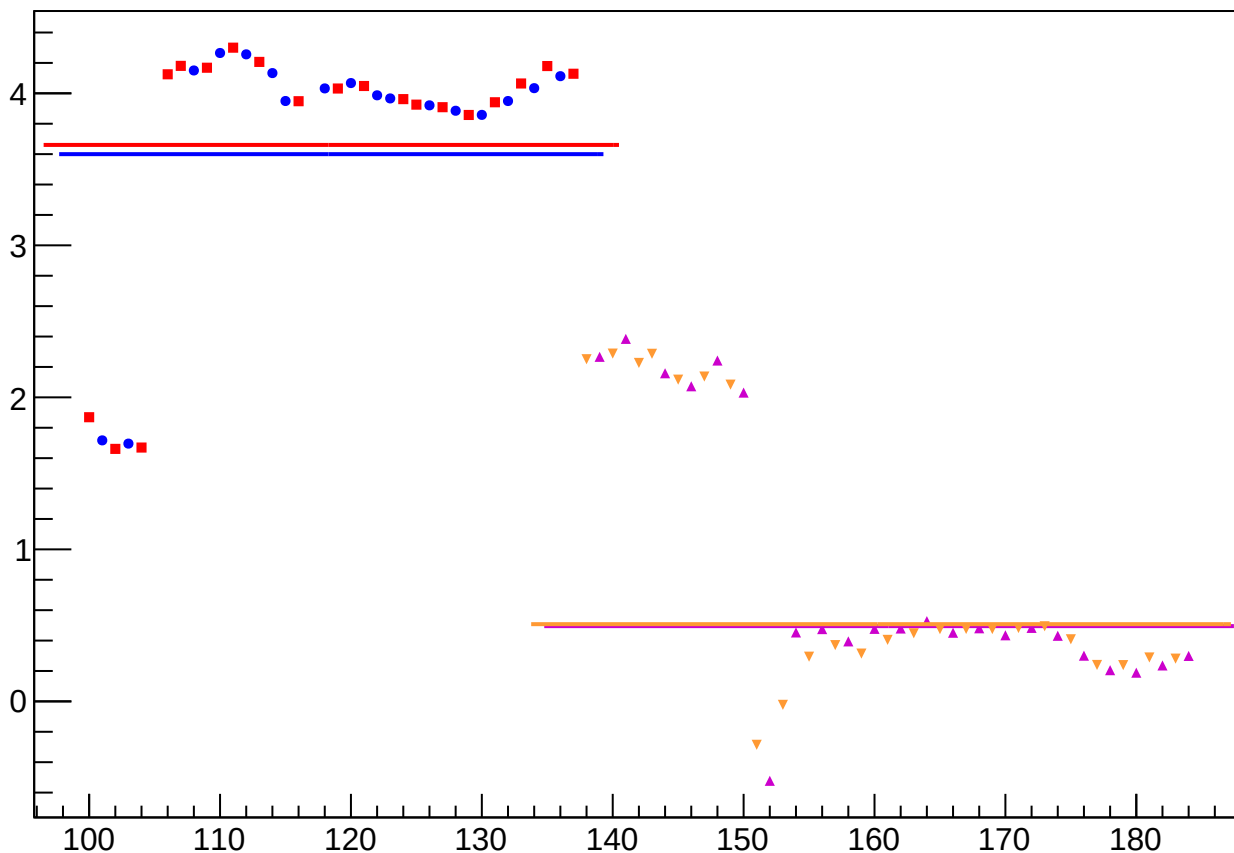
Right: 0.007+/-0.000 χ^2/NDF : 348586.5/35

In: 0.008+/-0.000 χ^2/NDF : 1043229.3/39

Out: 0.008+/-0.000 χ^2/NDF : 1091056.1/42

All: 0.008+/-0.000 χ^2/NDF : 2137870.4/82

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.600+/-0.000 χ^2/NDF : 185703271625.0/16

Left Out: 0.508+/-0.000 χ^2/NDF : 268469109817.6/23

Right Out: 3.661+/-0.000 χ^2/NDF : 192461584002.7/18

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.502+/-0.000 χ^2/NDF : 537395565116.8/46

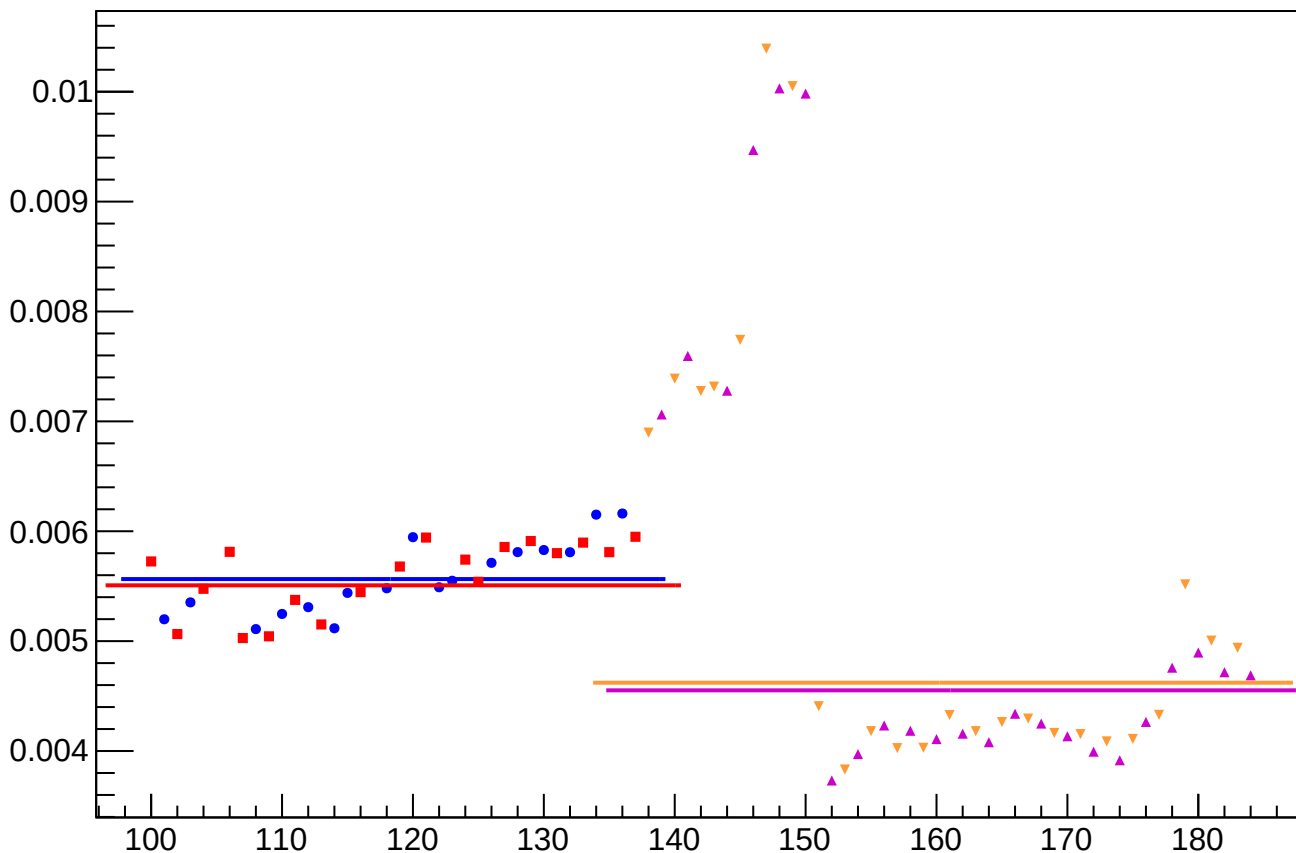
Right: 3.631+/-0.000 χ^2/NDF : 378573403824.4/35

In: 1.181+/-0.000 χ^2/NDF : 2069692334576.5/39

Out: 1.233+/-0.000 χ^2/NDF : 2209597947346.1/42

All: 1.208+/-0.000 χ^2/NDF : 4280621139354.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 48084.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :2080997.8/23

Right Out: 0.006+/-0.000 χ^2/NDF : 52399.9/18

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4322341.9/46

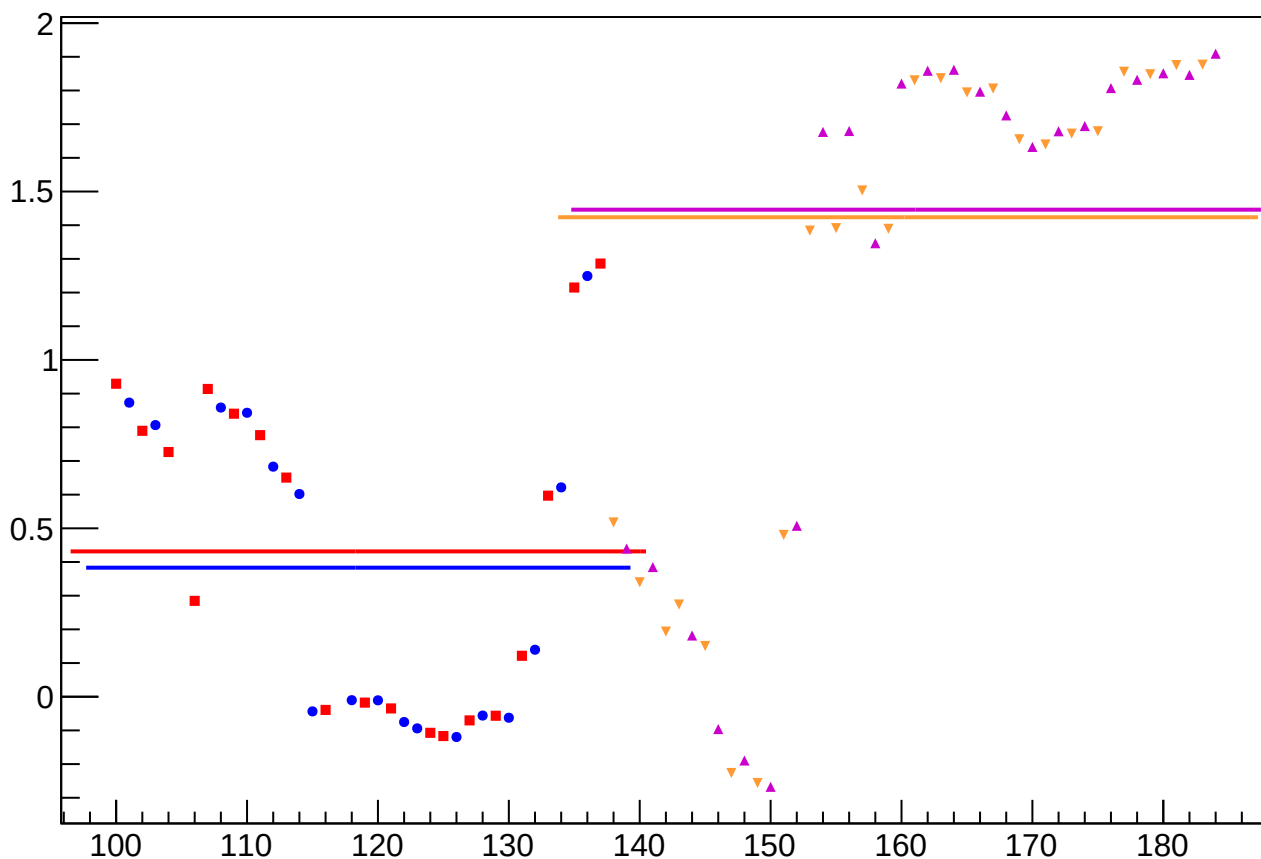
Right: 0.006+/-0.000 χ^2/NDF : 101204.4/35

In: 0.005+/-0.000 χ^2/NDF :2629412.2/39

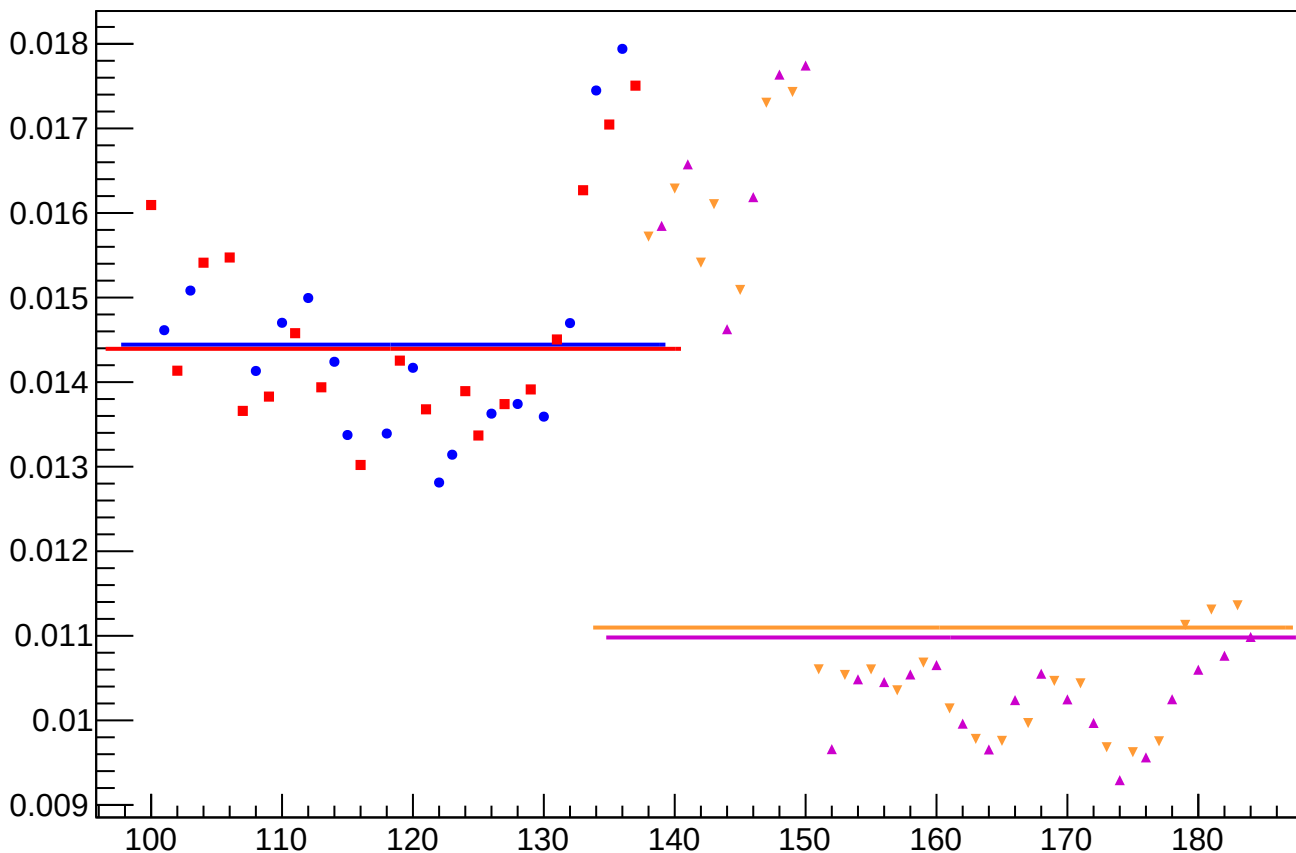
Out: 0.005+/-0.000 χ^2/NDF :2409745.4/42

All: 0.005+/-0.000 χ^2/NDF : 5041572.8/82

yield_bpm1i06X_mean vs Slug, Sign Corrected



yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 109417.4/16

Left Out: 0.011+/-0.000 χ^2/NDF :1207732.9/23

Right Out: 0.014+/-0.000 χ^2/NDF : 74186.8/18

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2474472.3/46

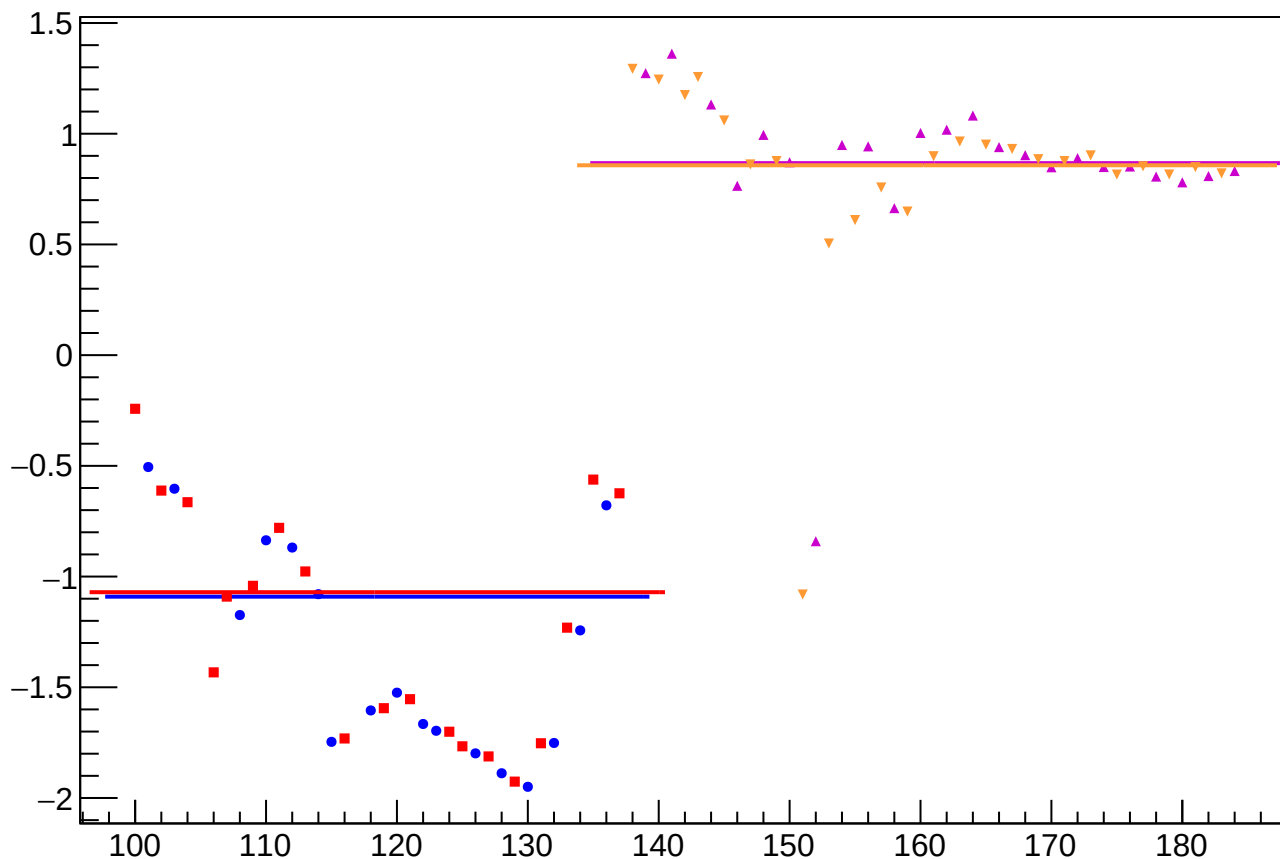
Right: 0.014+/-0.000 χ^2/NDF : 183683.0/35

In: 0.012+/-0.000 χ^2/NDF :1991025.7/39

Out: 0.012+/-0.000 χ^2/NDF :1867867.0/42

All: 0.012+/-0.000 χ^2/NDF : 3860773.4/82

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.091 ± 0.000 $\chi^2/\text{NDF}: 55542430282.4/16$

Left Out: 0.857 ± 0.000 $\chi^2/\text{NDF}: 125201043091.3/23$

Right Out: -1.071 ± 0.000 $\chi^2/\text{NDF}: 46725373904.4/18$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.862 ± 0.000 $\chi^2/\text{NDF}: 272297482631.2/46$

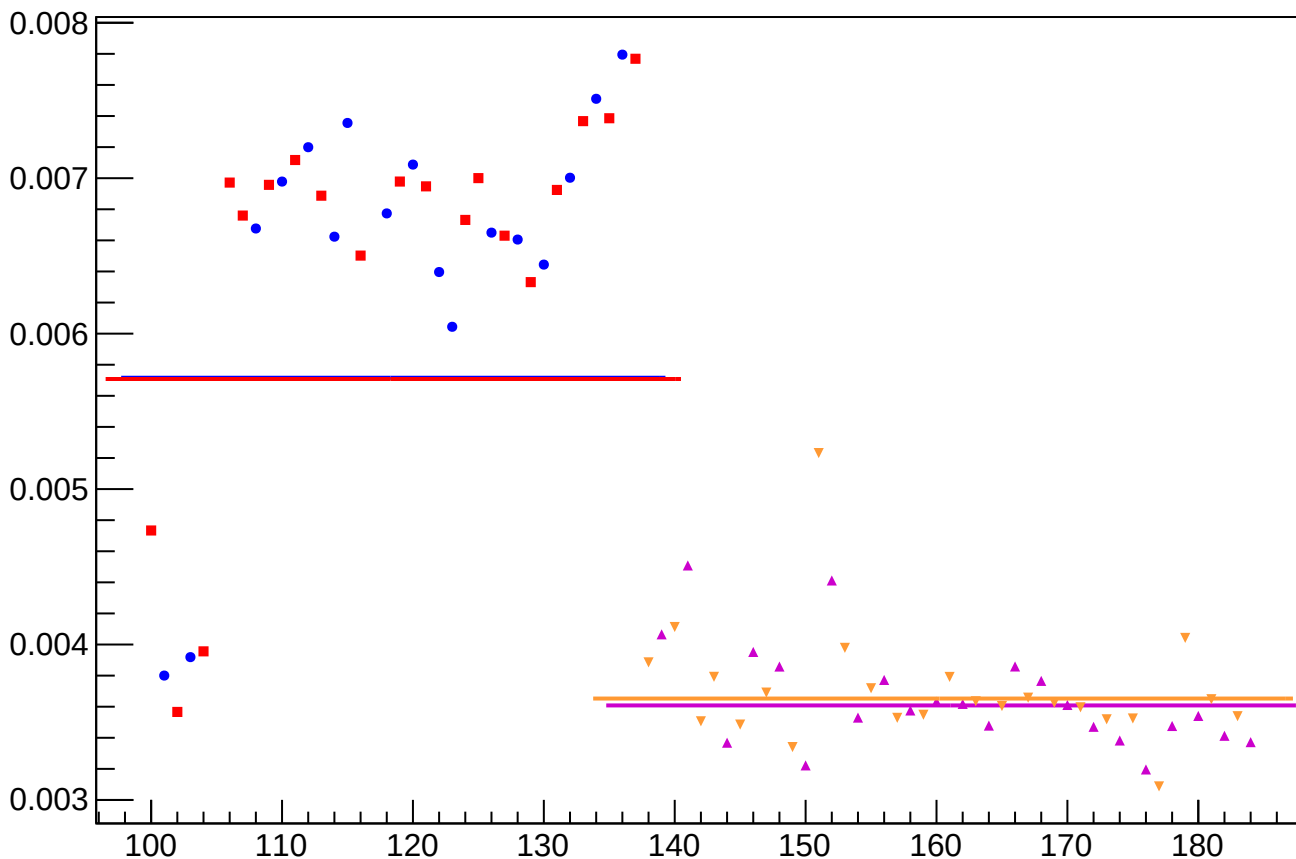
Right: -1.080 ± 0.000 $\chi^2/\text{NDF}: 102305472219.1/35$

In: 0.612 ± 0.000 $\chi^2/\text{NDF}: 805805326462.2/39$

Out: 0.601 ± 0.000 $\chi^2/\text{NDF}: 779249462596.7/42$

All: 0.606 ± 0.000 $\chi^2/\text{NDF}: 1585144439691.1$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 837929.9/16

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:236493.7/23

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 921337.6/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 466739.8/46

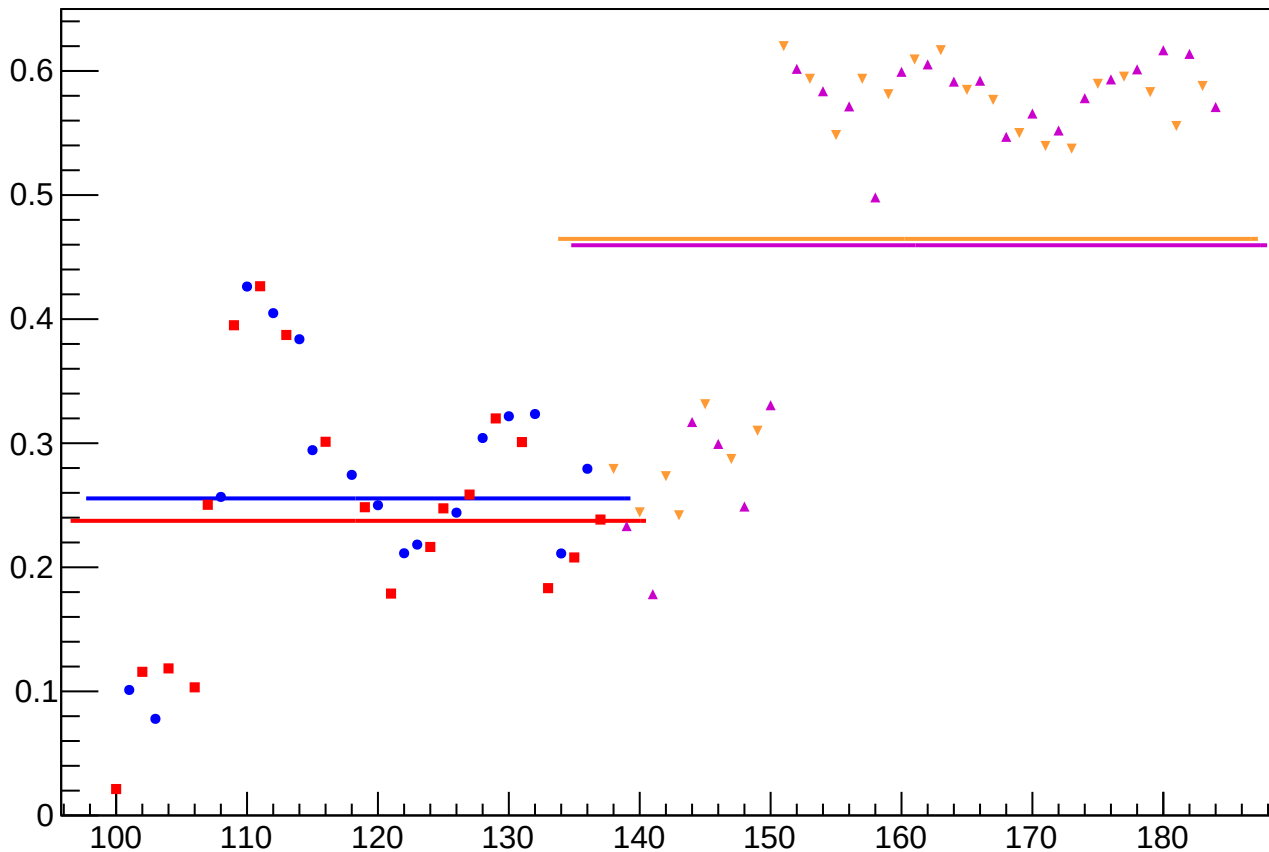
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 1759279.4/35

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2464352.7/39

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:2538754.9/42

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 5005740.7/82

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256+/-0.000 χ^2/NDF : 21303879000.5/16

Left Out: 0.465+/-0.000 χ^2/NDF : 99701597851.4/23

Right Out: 0.237+/-0.000 χ^2/NDF : 26048163947.8/18

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.462+/-0.000 χ^2/NDF : 204317888480.1/46

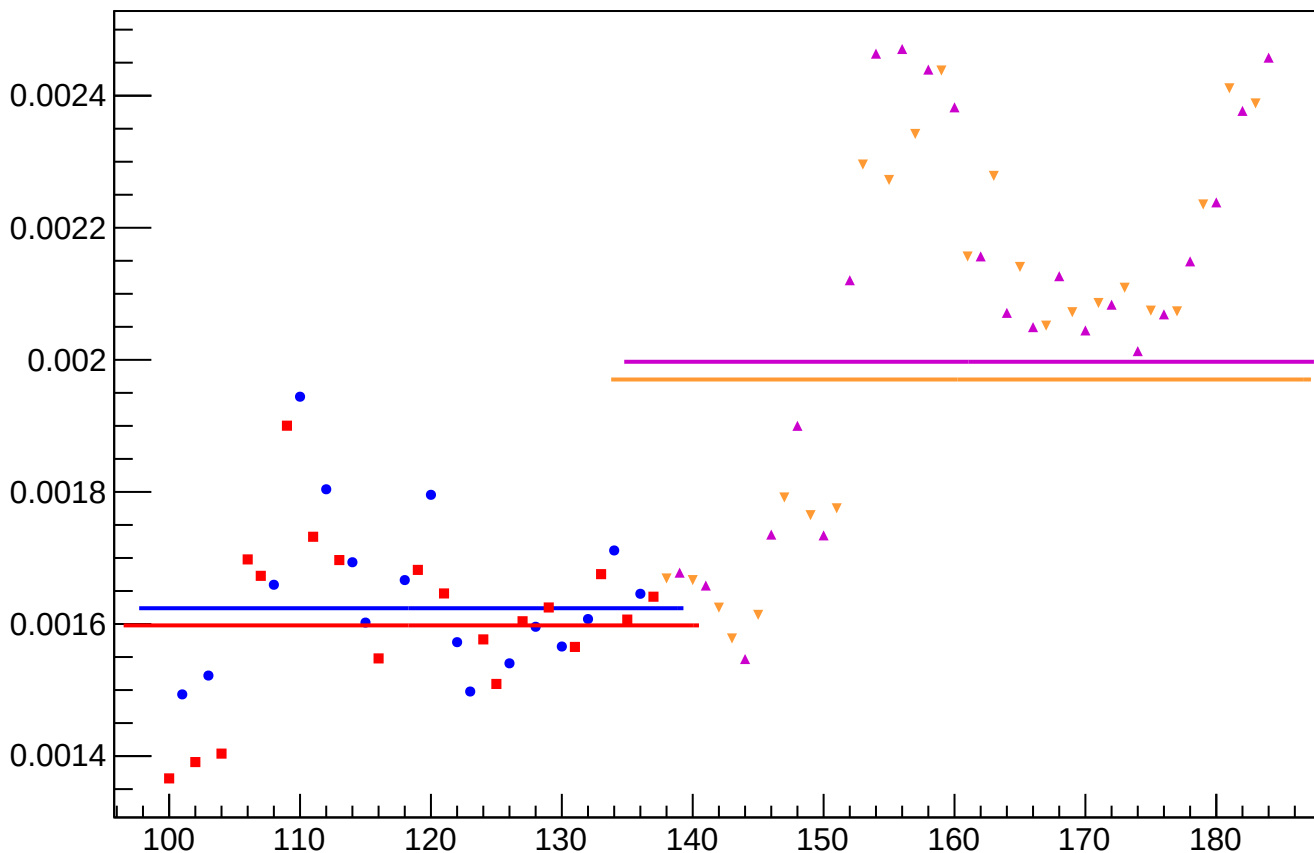
Right: 0.246+/-0.000 χ^2/NDF : 47770756724.0/35

In: 0.385+/-0.000 χ^2/NDF : 190061810545.8/39

Out: 0.379+/-0.000 χ^2/NDF : 213294198587.7/42

All: 0.382+/-0.000 χ^2/NDF : 403456494057.4

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52349.3/16

Left Out: 0.002+/-0.000 χ^2/NDF : 695660.3/23

Right Out: 0.002+/-0.000 χ^2/NDF : 90592.9/18

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1365201.0/46

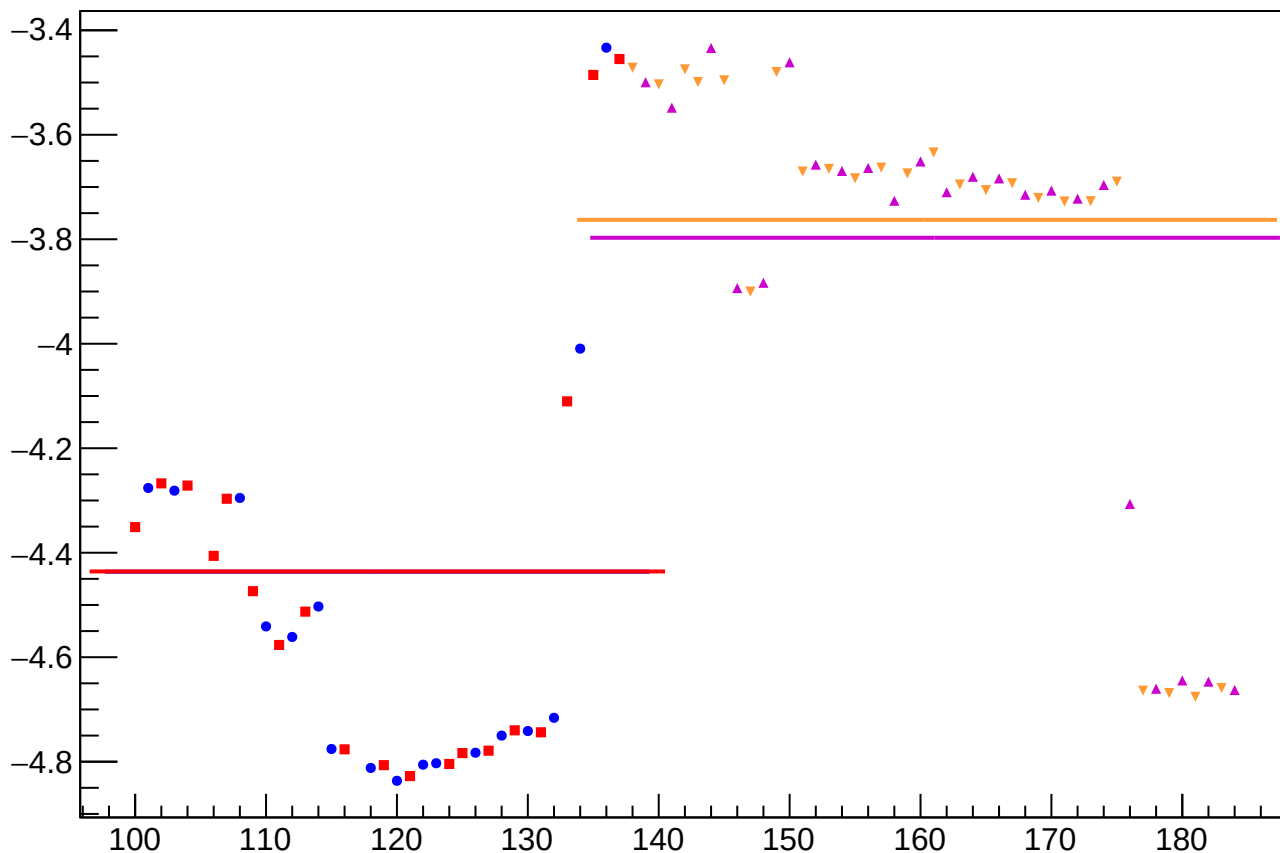
Right: 0.002+/-0.000 χ^2/NDF : 144677.8/35

In: 0.002+/-0.000 χ^2/NDF : 1148244.8/39

Out: 0.002+/-0.000 χ^2/NDF : 1256389.0/42

All: 0.002+/-0.000 χ^2/NDF : 2410793.0/82

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.436 $\pm$ 0.000 χ^2/NDF : 392479534987.2/16

Left Out: -3.763 $\pm$ 0.000 χ^2/NDF : 490769403389.3/23

Right Out: -4.436 $\pm$ 0.000 χ^2/NDF : 324942318404.0/18

Left In: -3.797 $\pm$ 0.000 χ^2/NDF : 444886272608.9/22

Left: -3.779 $\pm$ 0.000 χ^2/NDF : 937810831821.9/46

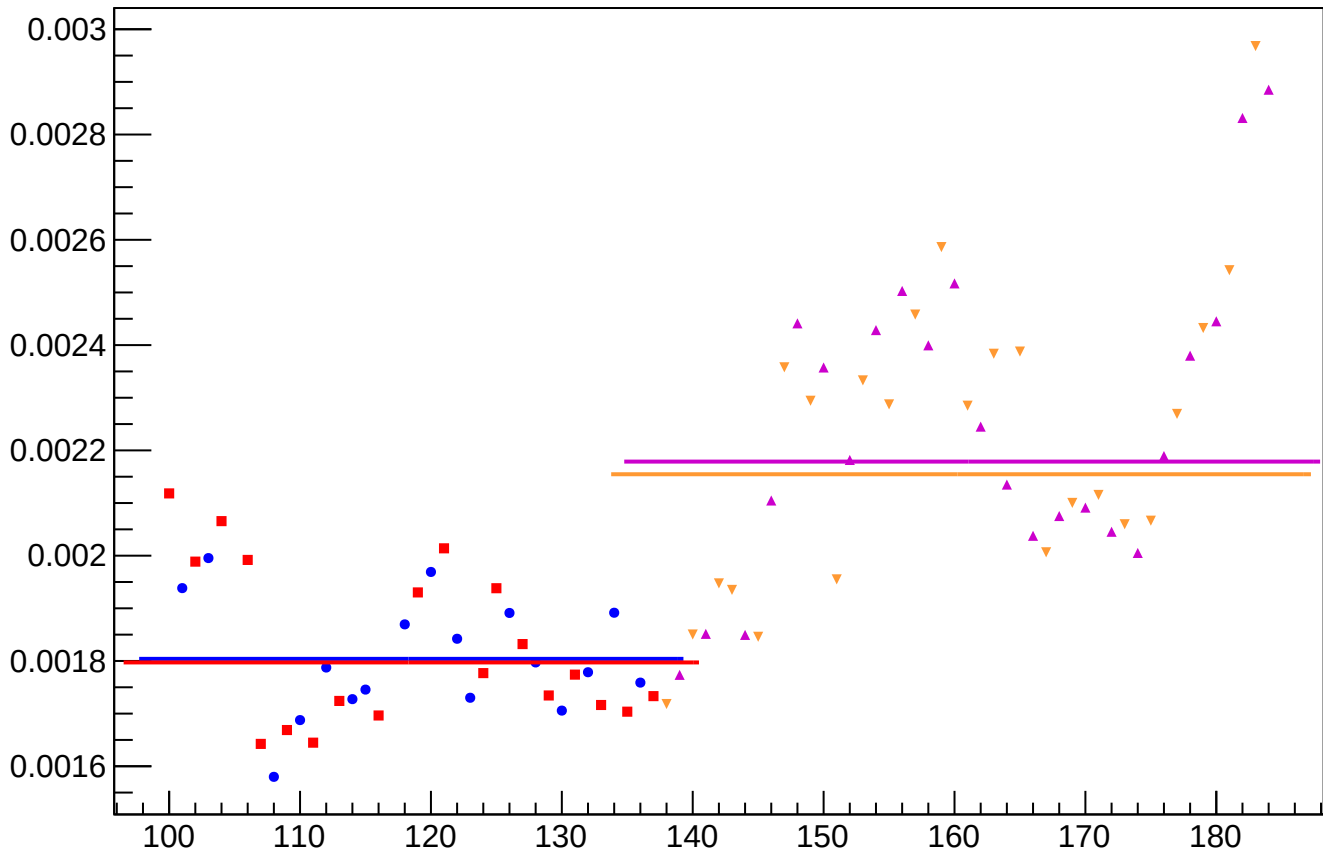
Right: -4.436 $\pm$ 0.000 χ^2/NDF : 717422111284.2/35

In: -4.027 $\pm$ 0.000 χ^2/NDF : 1358855337405.3/39

Out: -4.006 $\pm$ 0.000 χ^2/NDF : 1430069423356.0/42

All: -4.016 $\pm$ 0.000 χ^2/NDF : 2790219295302

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 48060.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :515550.7/23

Right Out: 0.002+/-0.000 χ^2/NDF : 80681.9/18

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 980939.2/46

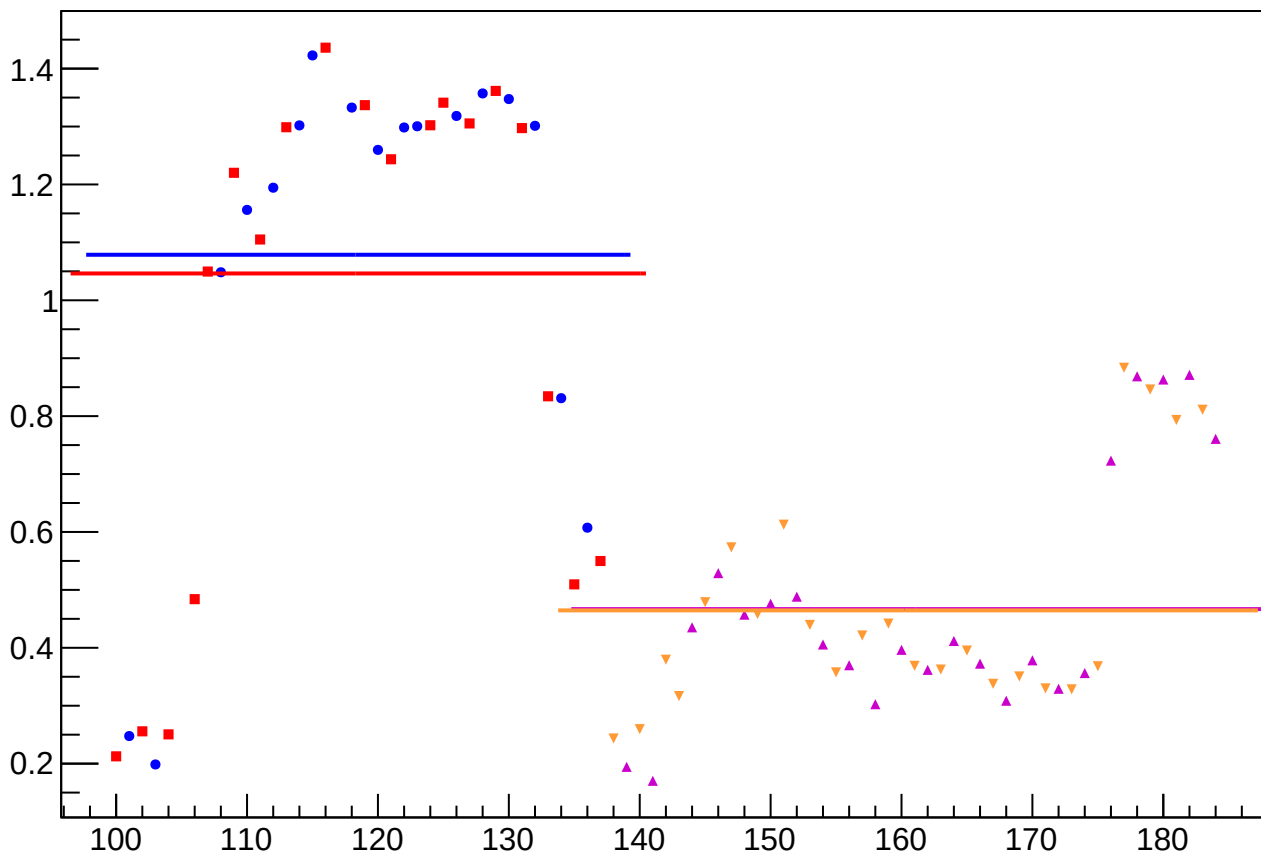
Right: 0.002+/-0.000 χ^2/NDF : 128836.7/35

In: 0.002+/-0.000 χ^2/NDF :869745.1/39

Out: 0.002+/-0.000 χ^2/NDF :942801.9/42

All: 0.002+/-0.000 χ^2/NDF : 1814458.4/82

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.079+/-0.000

χ^2/NDF : 17504335724.9/16

Left: 0.466+/-0.000

χ^2/NDF : 15178651745.9/46

Left Out: 0.465+/-0.000

χ^2/NDF : 7141428547.3/23

Right: 1.062+/-0.000

χ^2/NDF : 37227658553.8/35

Right Out: 1.046+/-0.000

χ^2/NDF : 19655971884.7/18

In: 0.703+/-0.000

χ^2/NDF : 53574656408.2/39

Out: 0.698+/-0.000

χ^2/NDF : 54660268625.6/42

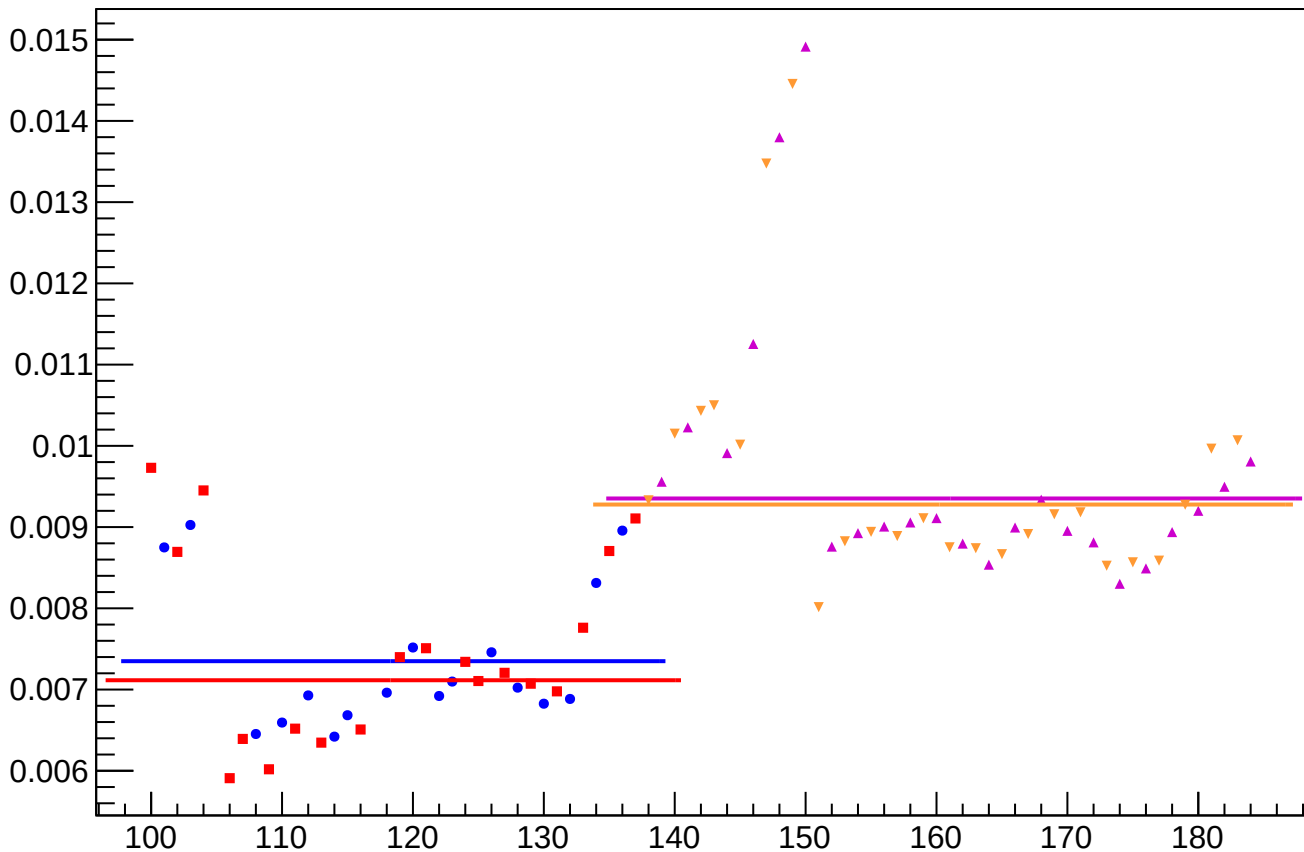
Left In: 0.467+/-0.000

χ^2/NDF : 8036741308.0/22

All: 0.700+/-0.000

χ^2/NDF : 108239054726.3

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180865.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 522318.8/23

Right Out: 0.007+/-0.000 χ^2/NDF : 259361.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1080979.0/46

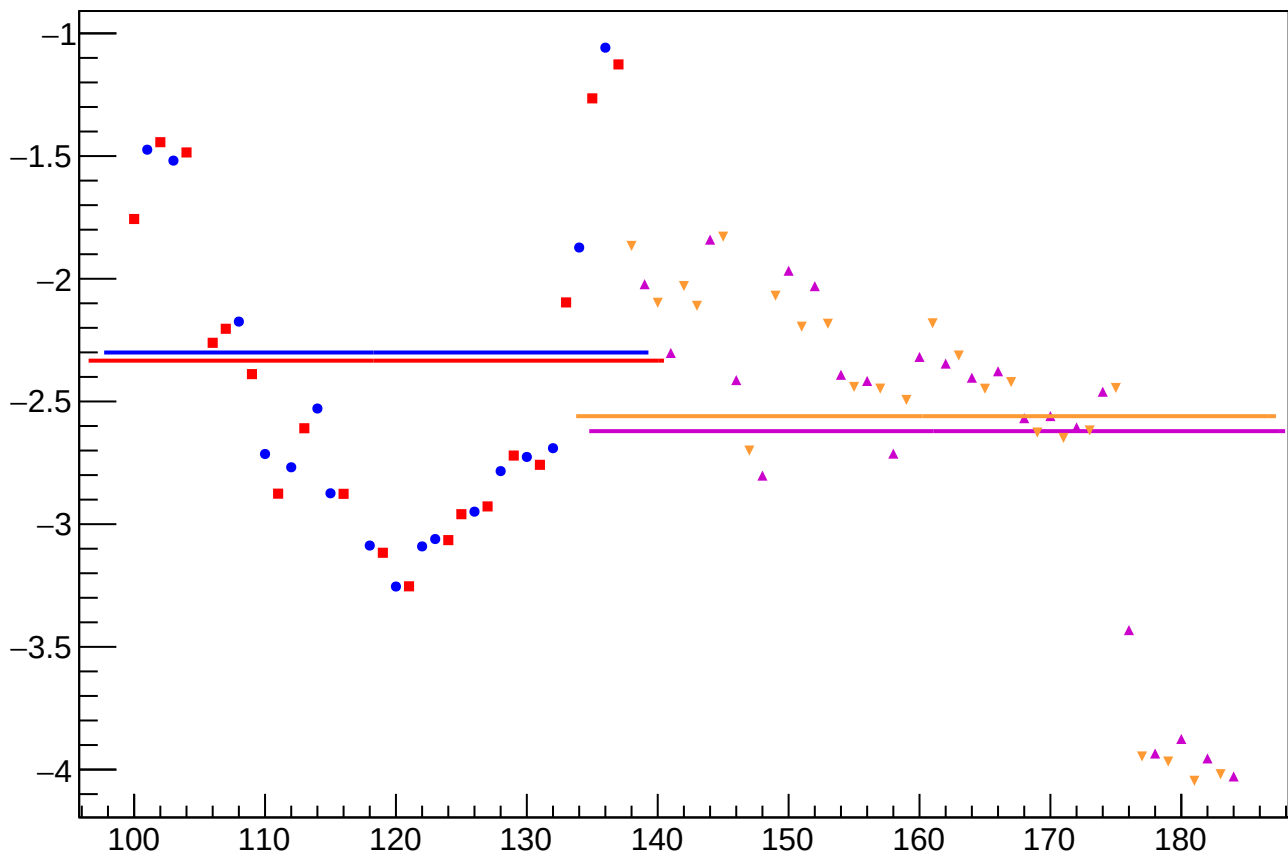
Right: 0.007+/-0.000 χ^2/NDF : 447348.1/35

In: 0.009+/-0.000 χ^2/NDF : 1339210.6/39

Out: 0.008+/-0.000 χ^2/NDF : 1552223.6/42

All: 0.008+/-0.000 χ^2/NDF : 2900821.3/82

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.300+/-0.000 χ^2/NDF : 73601400403.2/16

Left Out: -2.560+/-0.000 χ^2/NDF : 93346688817.1/23

Right Out: -2.334+/-0.000 χ^2/NDF : 64343197509.4/18

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.590+/-0.000 χ^2/NDF : 174635129404.0/46

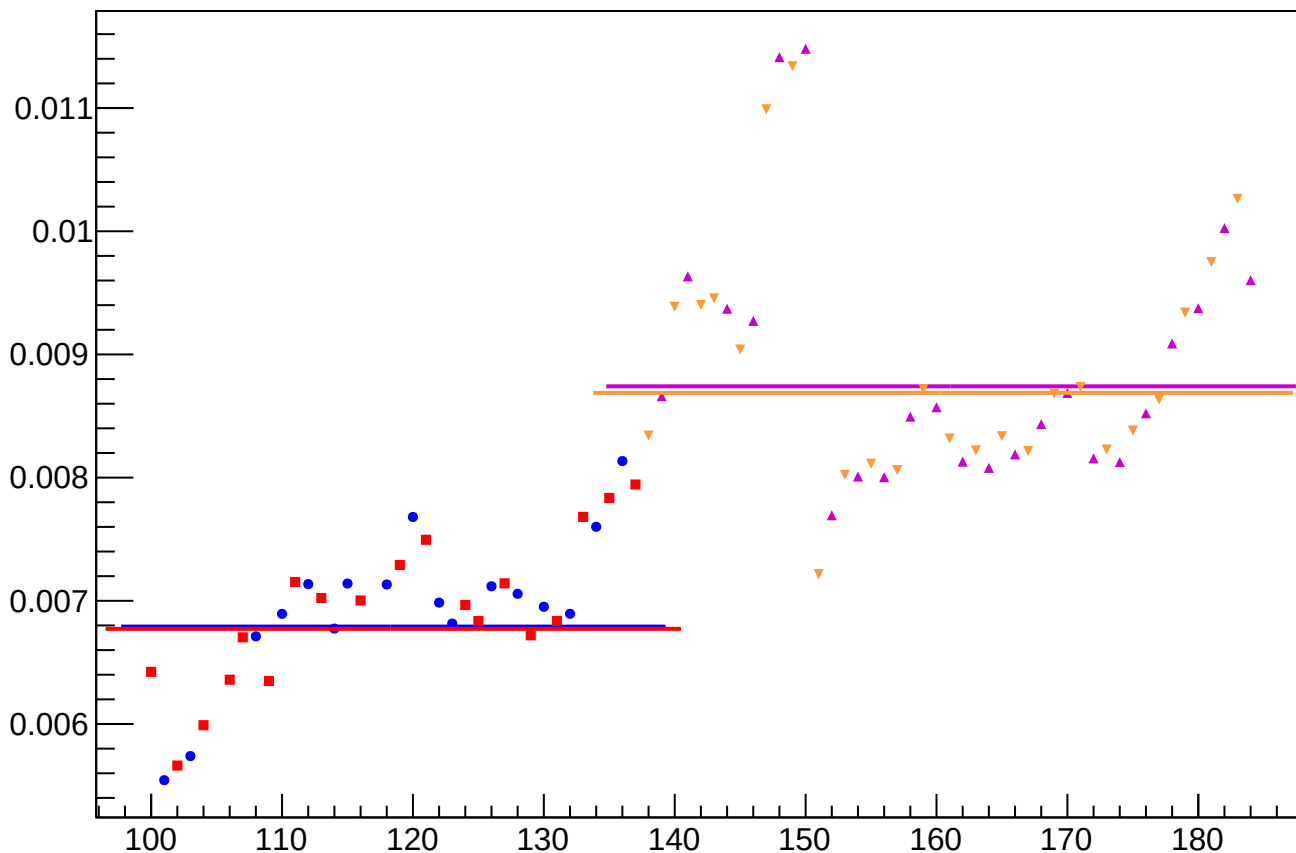
Right: -2.318+/-0.000 χ^2/NDF : 138026475465.9/35

In: -2.496+/-0.000 χ^2/NDF : 163448036744.6/39

Out: -2.471+/-0.000 χ^2/NDF : 162452298965.6/42

All: -2.483+/-0.000 χ^2/NDF : 326018684384.5

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 165798.3/16

Left Out: 0.009+/-0.000 χ^2/NDF : 357199.5/23

Right Out: 0.007+/-0.000 χ^2/NDF : 123254.7/18

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 711605.4/46

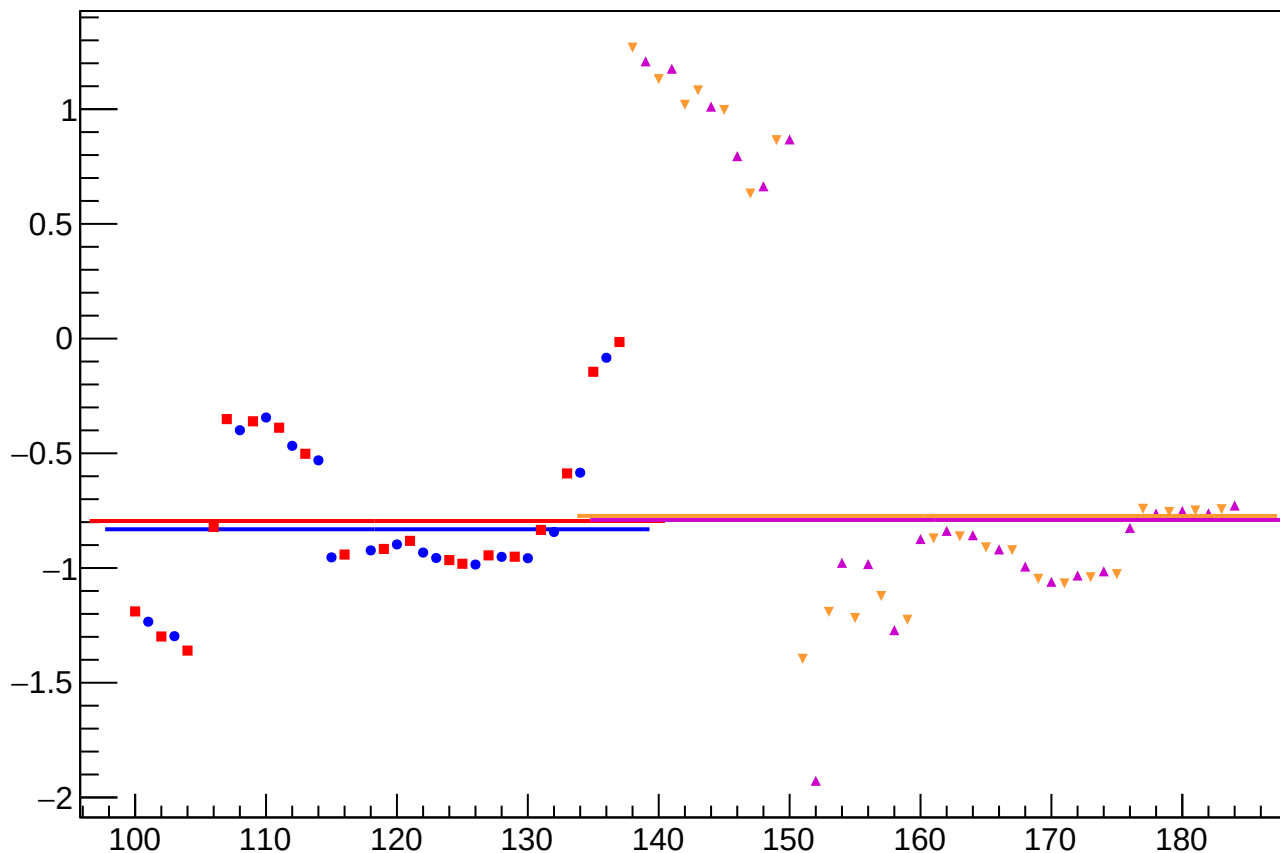
Right: 0.007+/-0.000 χ^2/NDF : 289102.2/35

In: 0.008+/-0.000 χ^2/NDF : 1185214.6/39

Out: 0.008+/-0.000 χ^2/NDF : 1162446.3/42

All: 0.008+/-0.000 χ^2/NDF : 2348495.5/82

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 6684927415.2/16

Left: -0.782+/-0.000

χ^2/NDF : 241997836154.6/46

Right: -0.813+/-0.000

χ^2/NDF : 14539681637.1/35

Left Out: -0.773+/-0.000

χ^2/NDF : 118503777931.7/23

In: -0.797+/-0.000

χ^2/NDF : 130214745459.8/39

Right Out: -0.795+/-0.000

χ^2/NDF : 7817248130.7/18

Out: -0.777+/-0.000

χ^2/NDF : 126345022006.2/42

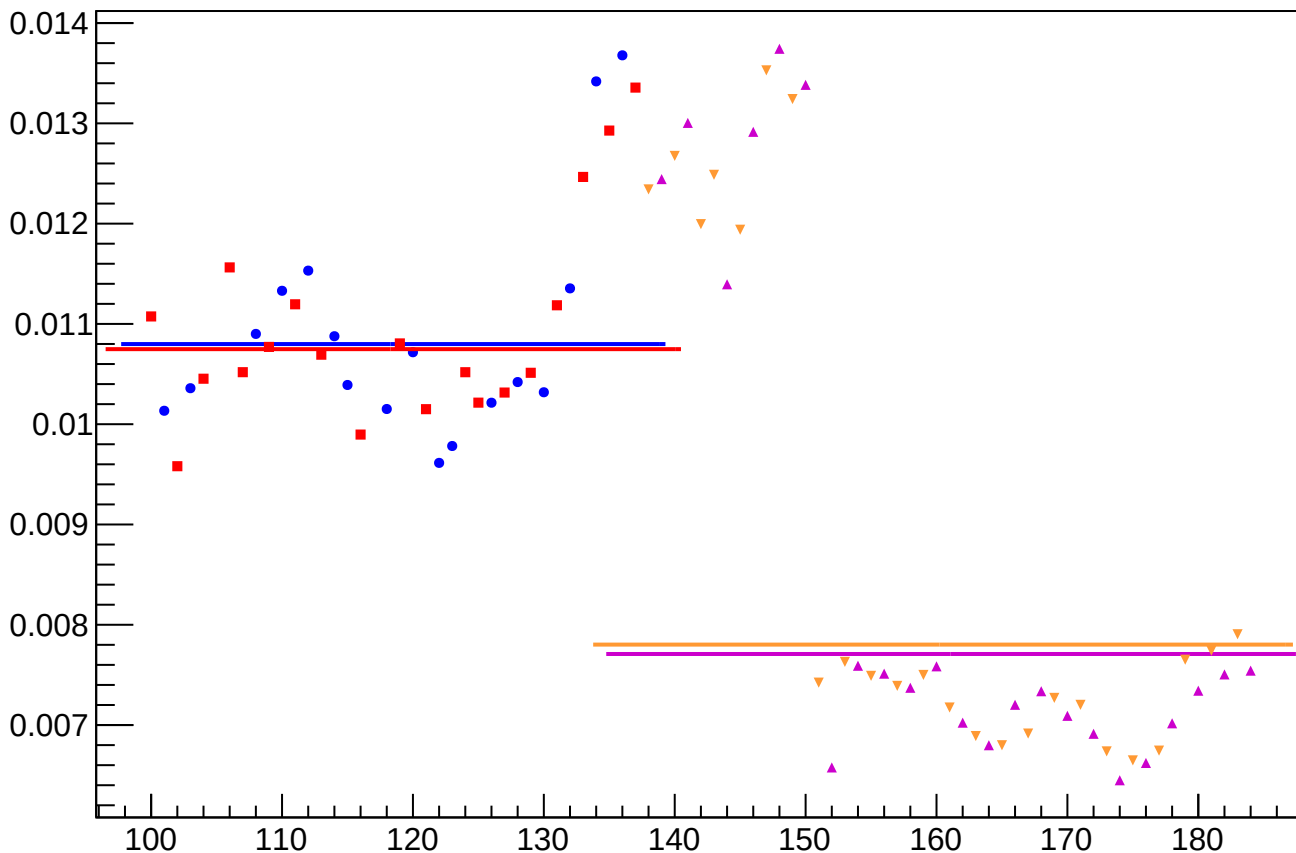
Left In: -0.790+/-0.000

χ^2/NDF : 123452478408.2/22

All: -0.787+/-0.000

χ^2/NDF : 256629334242.1

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124812.3/16

Left Out: 0.008+/-0.000 χ^2/NDF :1676548.9/23

Right Out: 0.011+/-0.000 χ^2/NDF : 89612.1/18

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3425612.1/46

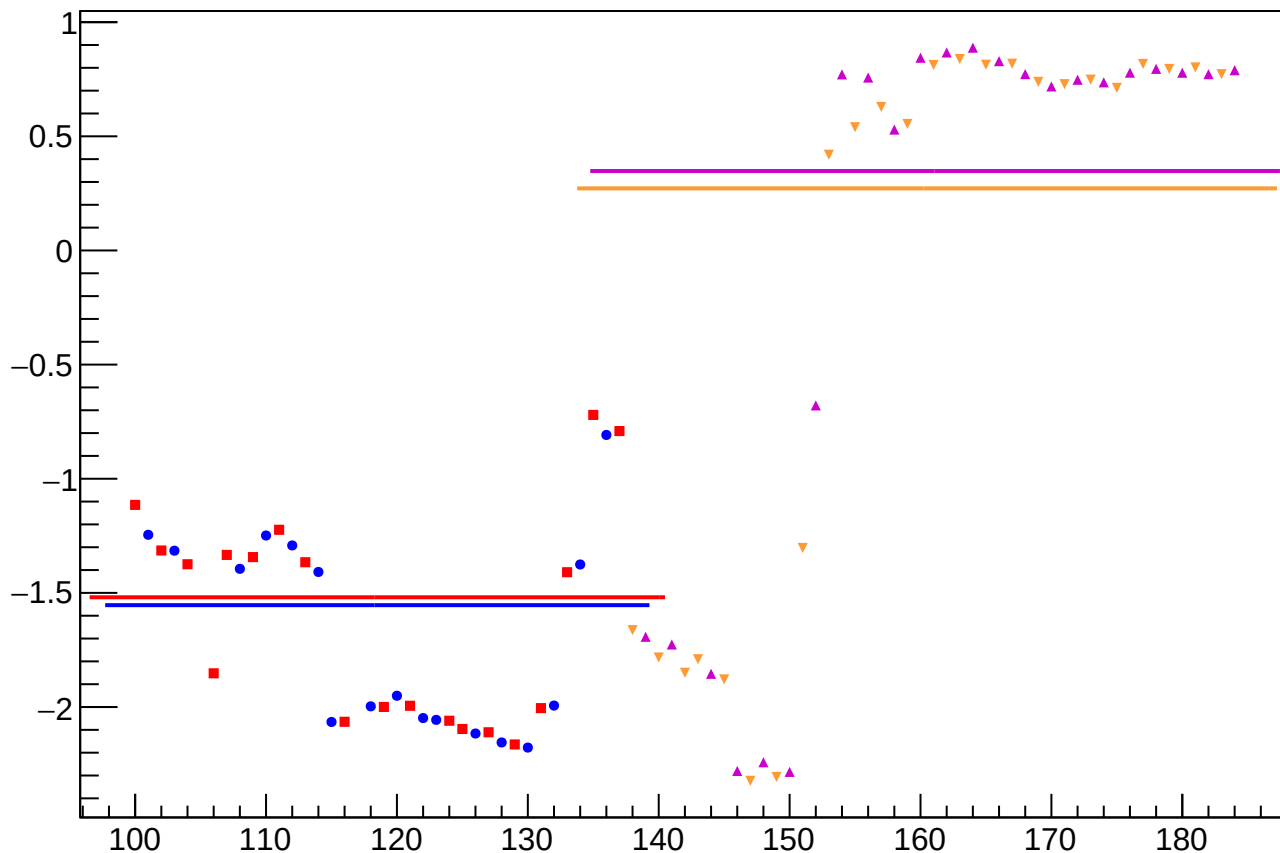
Right: 0.011+/-0.000 χ^2/NDF : 214573.0/35

In: 0.008+/-0.000 χ^2/NDF :2760653.6/39

Out: 0.008+/-0.000 χ^2/NDF :2616409.4/42

All: 0.008+/-0.000 χ^2/NDF : 5379529.8/82

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.554+/-0.000 χ^2/NDF : 153751208532.9/16

Left Out: 0.272+/-0.000 χ^2/NDF : 2522951494712.5/23

Right Out: -1.519+/-0.000 χ^2/NDF : 138061021403.9/18

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.309+/-0.000 χ^2/NDF : 4804254950408.9/46

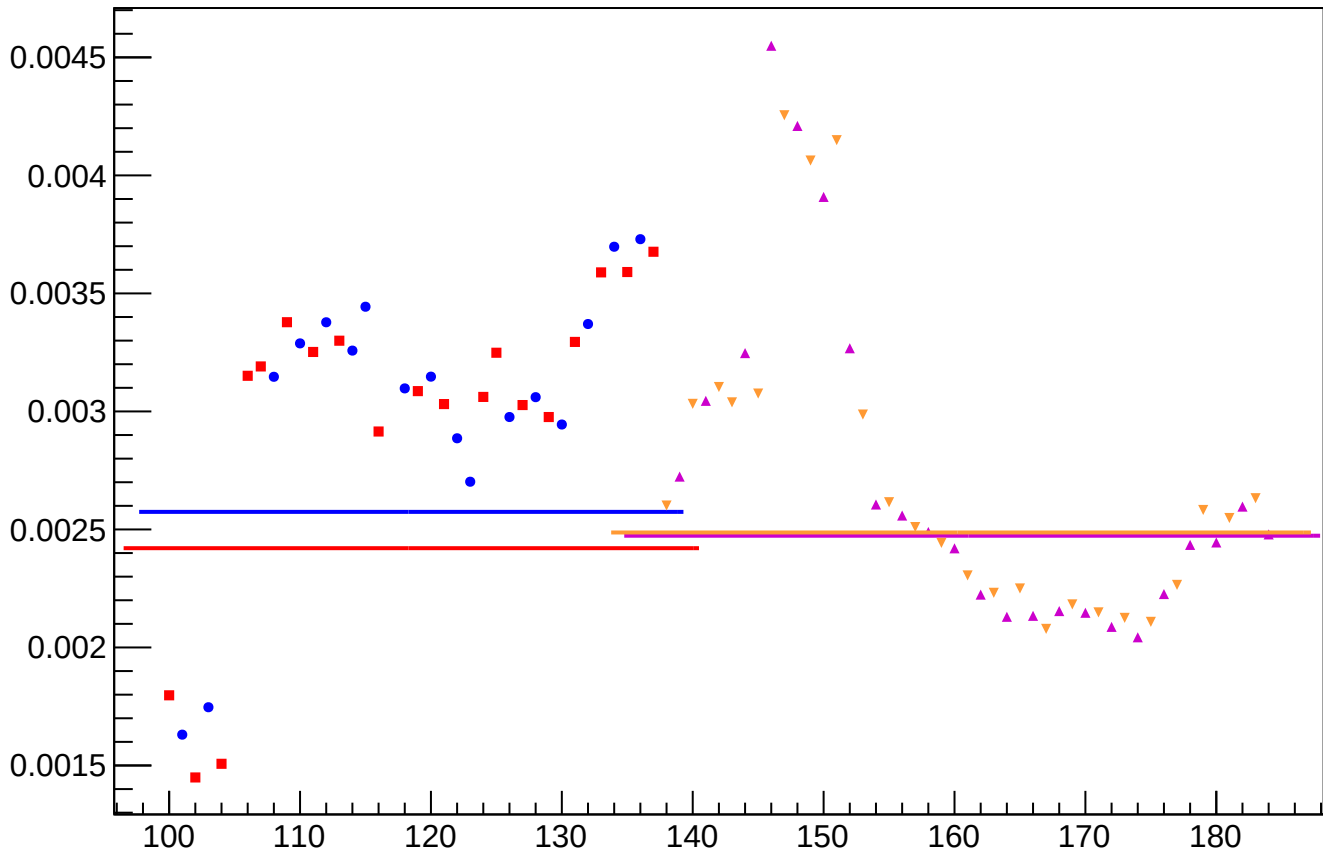
Right: -1.535+/-0.000 χ^2/NDF : 292351096405.8/35

In: -0.137+/-0.000 χ^2/NDF : 4717469165700.5/39

Out: -0.217+/-0.000 χ^2/NDF : 4911749322607.3/42

All: -0.178+/-0.000 χ^2/NDF : 9640098287401

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1013543.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :1064703.7/23

Right Out: 0.002+/-0.000 χ^2/NDF : 1484766.5/18

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2200459.2/46

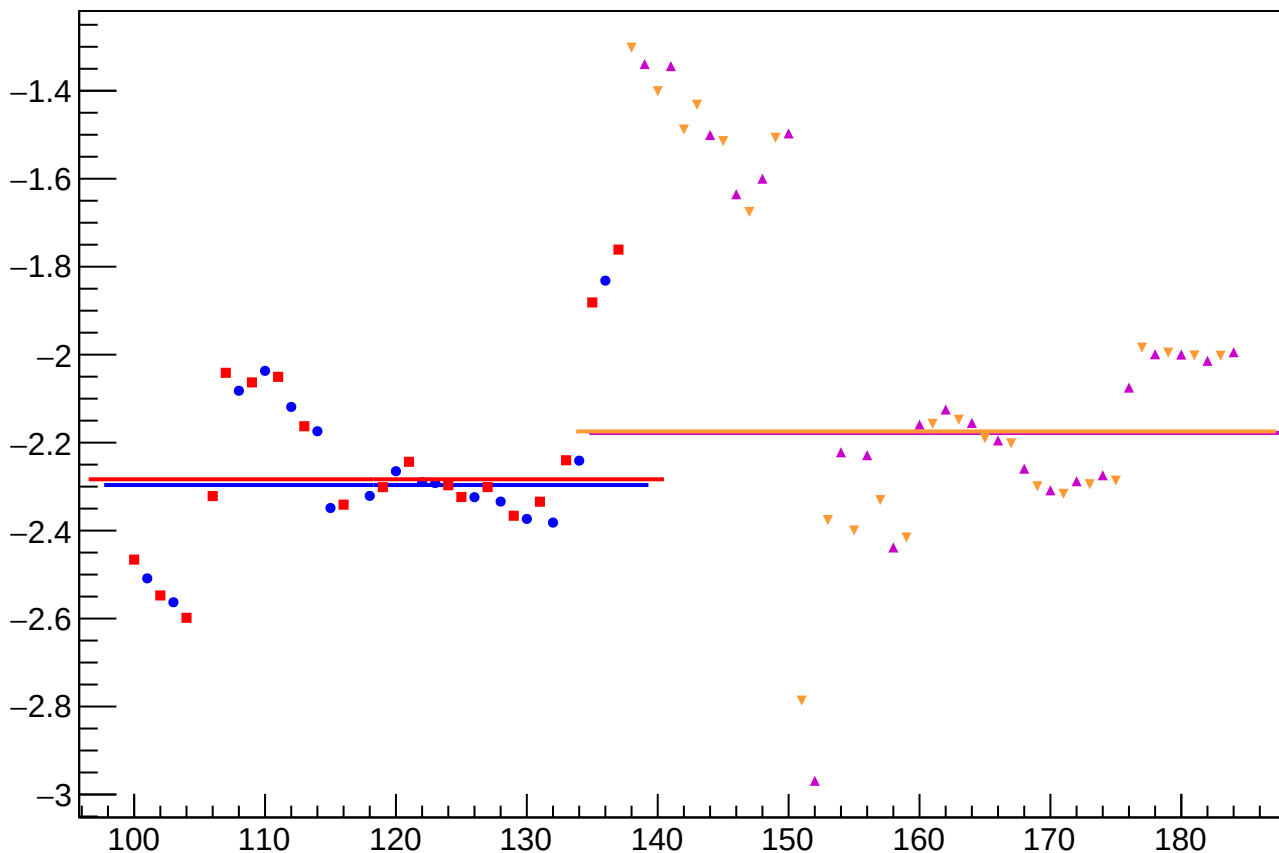
Right: 0.002+/-0.000 χ^2/NDF : 2519697.5/35

In: 0.002+/-0.000 χ^2/NDF :2161744.6/39

Out: 0.002+/-0.000 χ^2/NDF :2555684.2/42

All: 0.002+/-0.000 χ^2/NDF : 4720557.1/82

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000 χ^2/NDF : 5781445779.2/16

Left Out: -2.175+/-0.000 χ^2/NDF : 58836107851.3/23

Right Out: -2.283+/-0.000 χ^2/NDF : 6547805693.1/18

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.176+/-0.000 χ^2/NDF : 132242701593.6/46

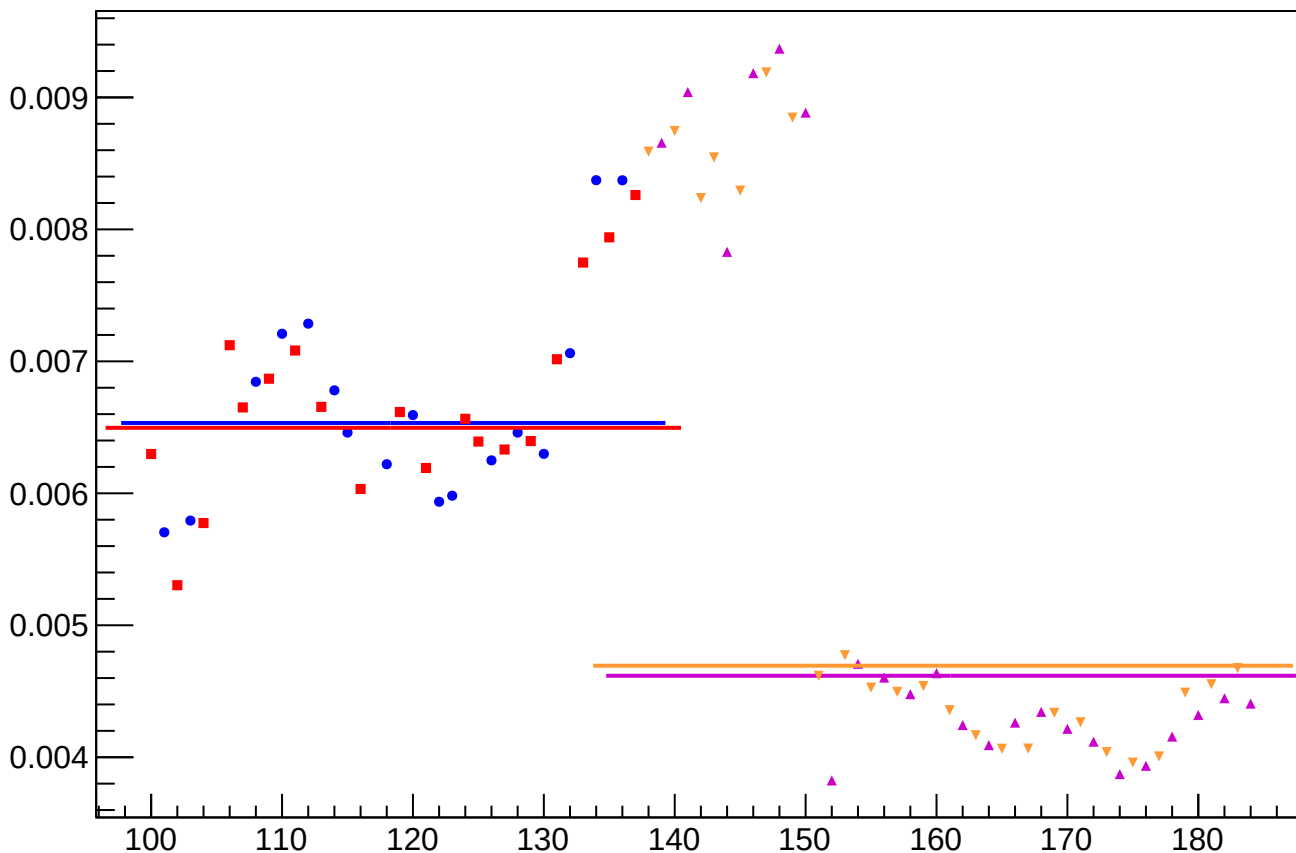
Right: -2.290+/-0.000 χ^2/NDF : 12342526597.5/35

In: -2.198+/-0.000 χ^2/NDF : 80936013661.2/39

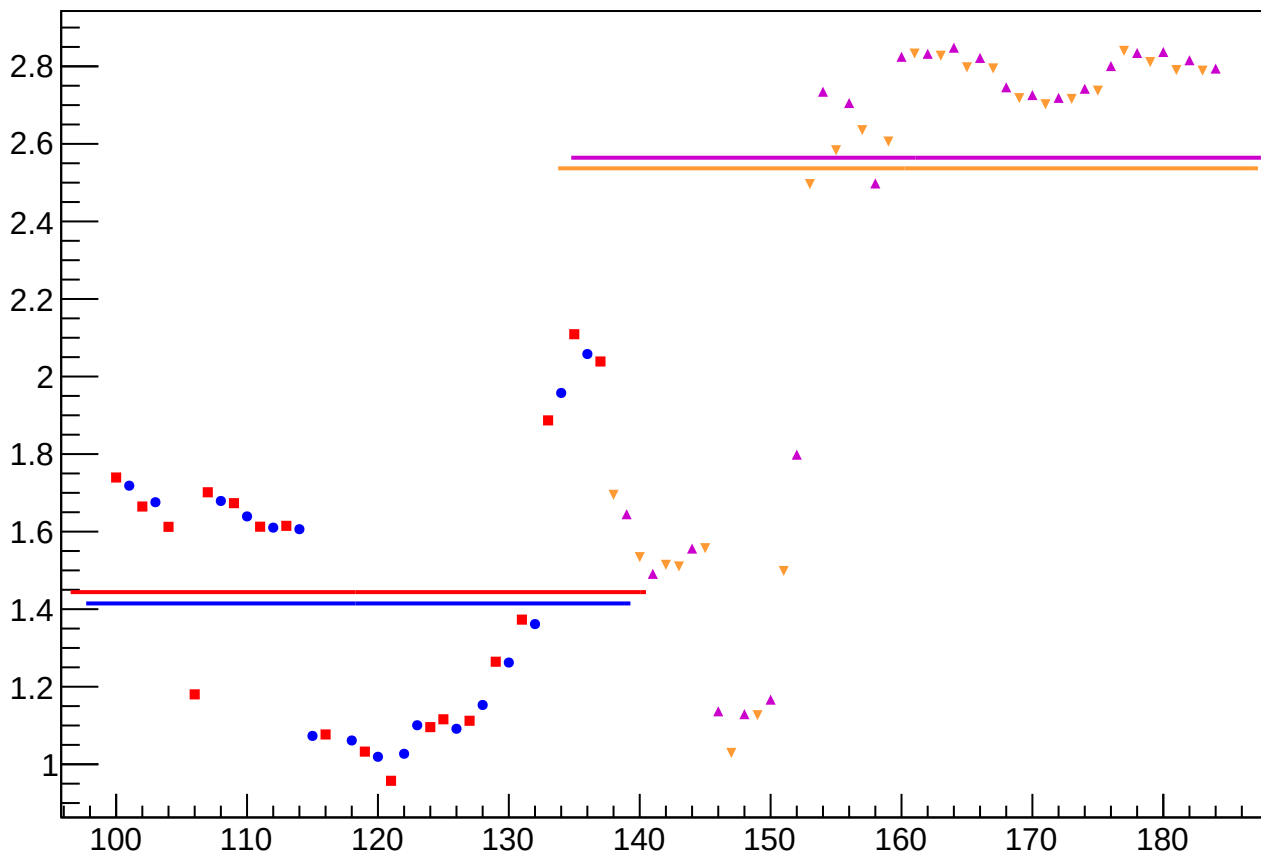
Out: -2.194+/-0.000 χ^2/NDF : 66942971422.5/42

All: -2.196+/-0.000 χ^2/NDF : 147887648618.9

yield_bpm0i01aX_rms vs Slug, Sign Corrected



yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.415+/-0.000 χ^2/NDF : 171733730631.9/16

Left Out: 2.537+/-0.000 χ^2/NDF : 264350939498.9/23

Right Out: 1.444+/-0.000 χ^2/NDF : 172869416198.6/18

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 525104510215.4/46

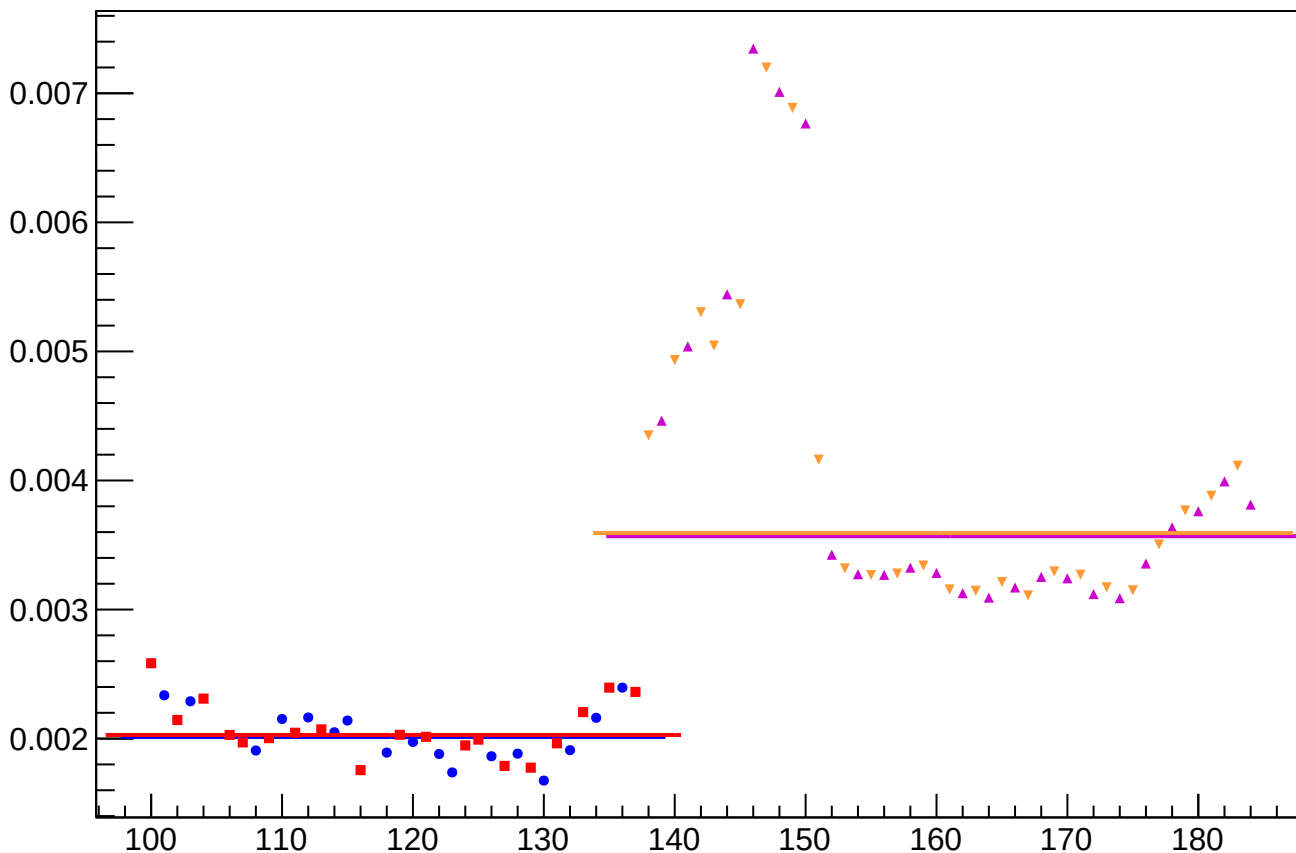
Right: 1.430+/-0.000 χ^2/NDF : 345262431703.8/35

In: 1.929+/-0.000 χ^2/NDF : 1328115245059.8/39

Out: 1.932+/-0.000 χ^2/NDF : 1275813070043.0/42

All: 1.930+/-0.000 χ^2/NDF : 2603945283449.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 149372.5/16

Left Out: 0.004+/-0.000 χ^2/NDF :1386824.8/23

Right Out: 0.002+/-0.000 χ^2/NDF : 102976.0/18

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2950610.5/46

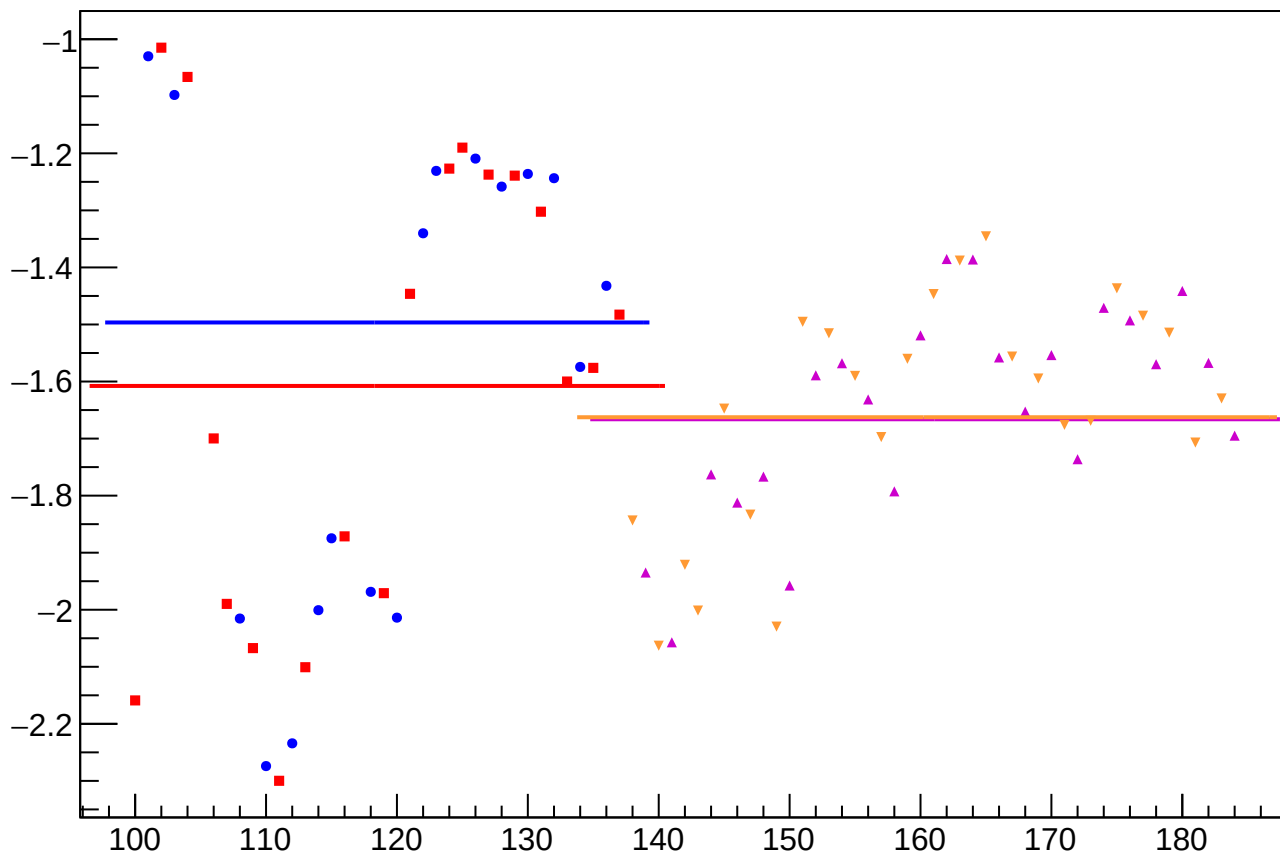
Right: 0.002+/-0.000 χ^2/NDF : 252720.4/35

In: 0.003+/-0.000 χ^2/NDF :4992746.8/39

Out: 0.003+/-0.000 χ^2/NDF :4925529.5/42

All: 0.003+/-0.000 χ^2/NDF : 9919277.8/82

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496 $\pm$ 0.000 χ^2 /NDF: 22480434073.3/16

Left Out: -1.663 $\pm$ 0.000 χ^2 /NDF: 17915886674.2/23

Right Out: -1.608 $\pm$ 0.000 χ^2 /NDF: 27825836681.8/18

Left In: -1.666 $\pm$ 0.000 χ^2 /NDF: 14292570816.9/22

Left: -1.664 $\pm$ 0.000 χ^2 /NDF: 32211080299.2/46

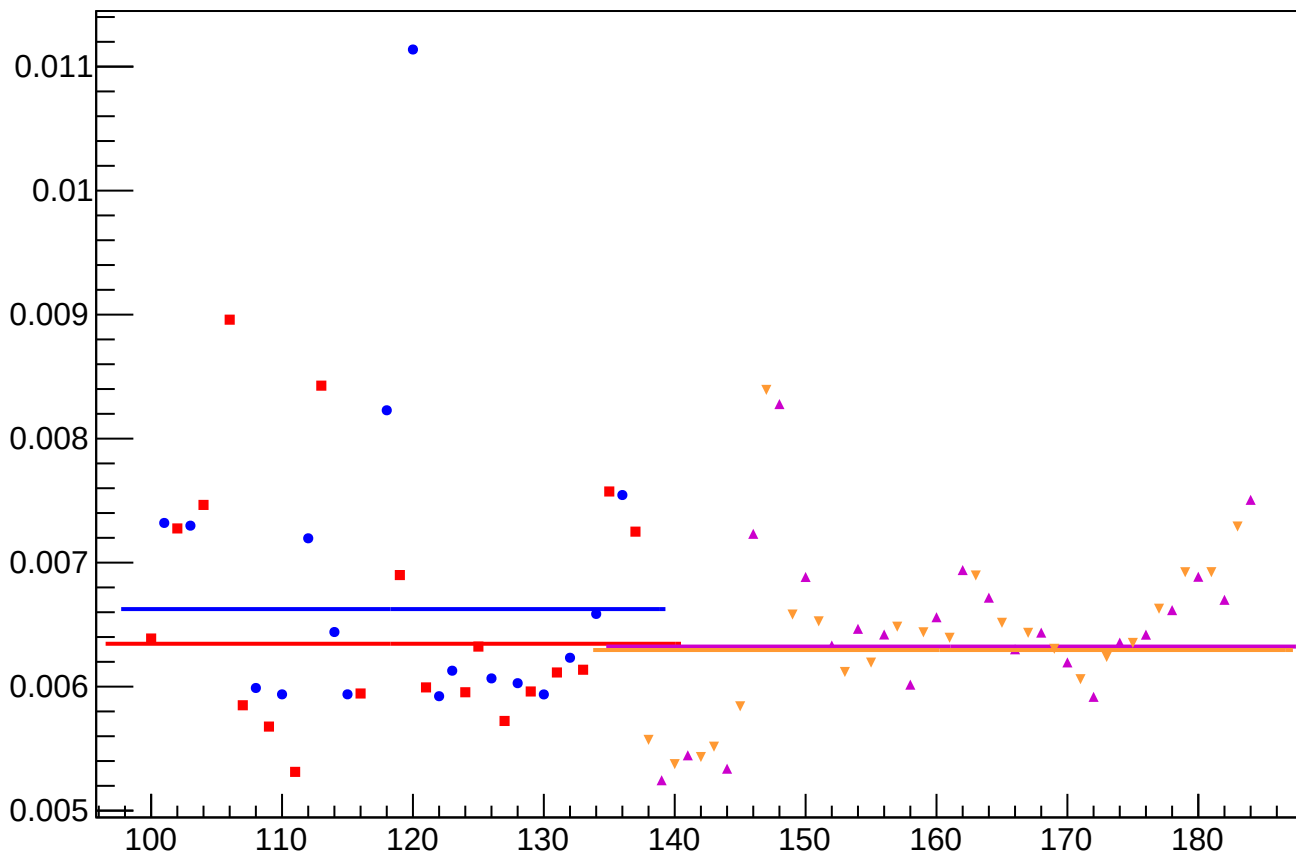
Right: -1.557 $\pm$ 0.000 χ^2 /NDF: 51232685741.2/35

In: -1.623 $\pm$ 0.000 χ^2 /NDF: 39748144047.2/39

Out: -1.648 $\pm$ 0.000 χ^2 /NDF: 46098582279.7/42

All: -1.636 $\pm$ 0.000 χ^2 /NDF: 86014150210.0/79

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 231716.4/16

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:289091.7/23

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 228829.0/18

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:330859.7/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 620281.9/46

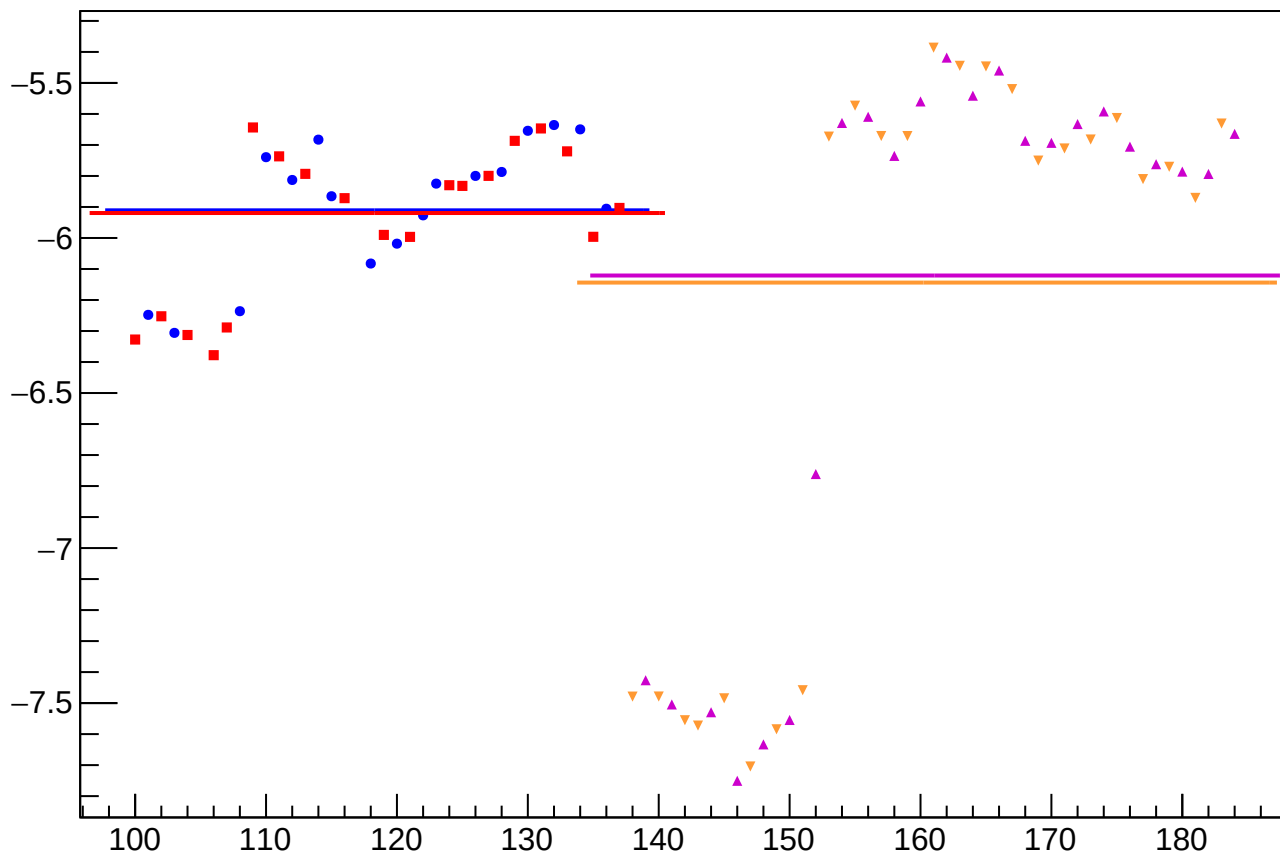
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 472249.9/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:581452.9/39

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:518527.1/42

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1104642.2/82

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.911+/-0.000 χ^2/NDF : 11134606775.1/16

Left Out: -6.144+/-0.000 χ^2/NDF : 182767828408.7/23

Right Out: -5.919+/-0.000 χ^2/NDF : 12817250659.6/18

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 341148501201.0/46

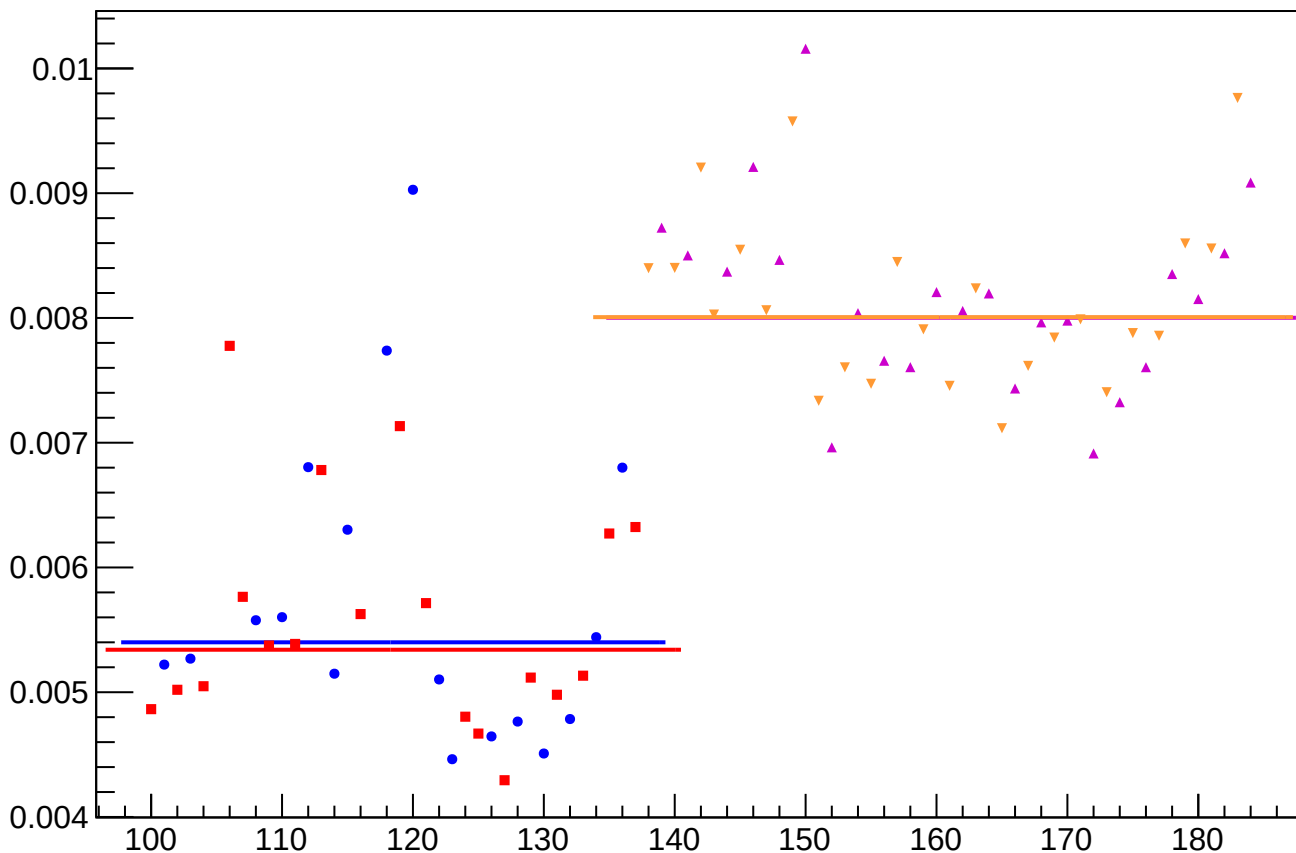
Right: -5.915+/-0.000 χ^2/NDF : 23959758417.3/35

In: -6.026+/-0.000 χ^2/NDF : 174356028007.9/39

Out: -6.039+/-0.000 χ^2/NDF : 201556682198.7/42

All: -6.033+/-0.000 χ^2/NDF : 375949215090.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 370479.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :177639.0/23

Right Out: 0.005+/-0.000 χ^2/NDF : 251605.9/18

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 398401.1/46

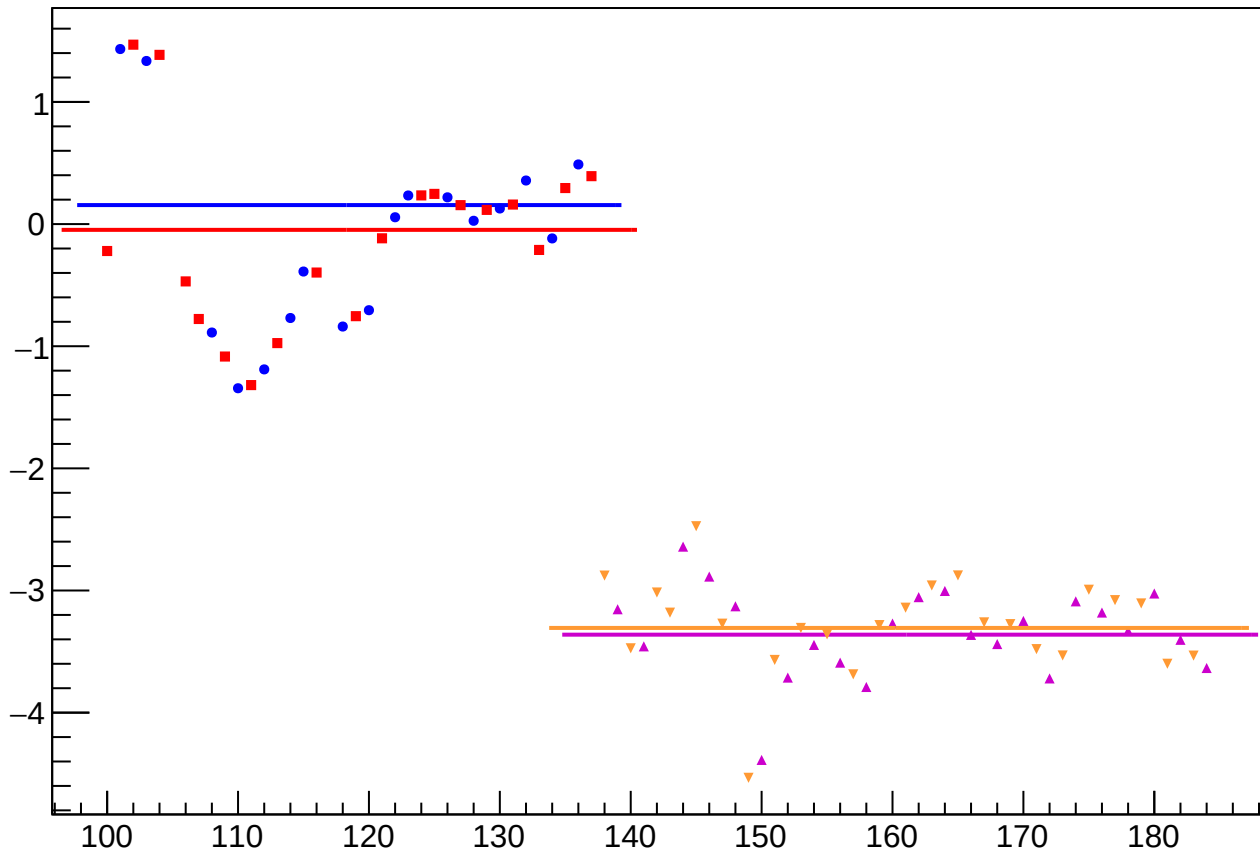
Right: 0.005+/-0.000 χ^2/NDF : 622836.6/35

In: 0.007+/-0.000 χ^2/NDF :2093887.6/39

Out: 0.007+/-0.000 χ^2/NDF :2116018.4/42

All: 0.007+/-0.000 χ^2/NDF : 4212145.9/82

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.156+/-0.000 χ^2/NDF : 16968312396.2/16

Left Out: -3.306+/-0.000 χ^2/NDF : 9182357914.7/23

Right Out: -0.047+/-0.000 χ^2/NDF : 21207878974.4/18

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.334+/-0.000 χ^2/NDF : 17456808198.3/46

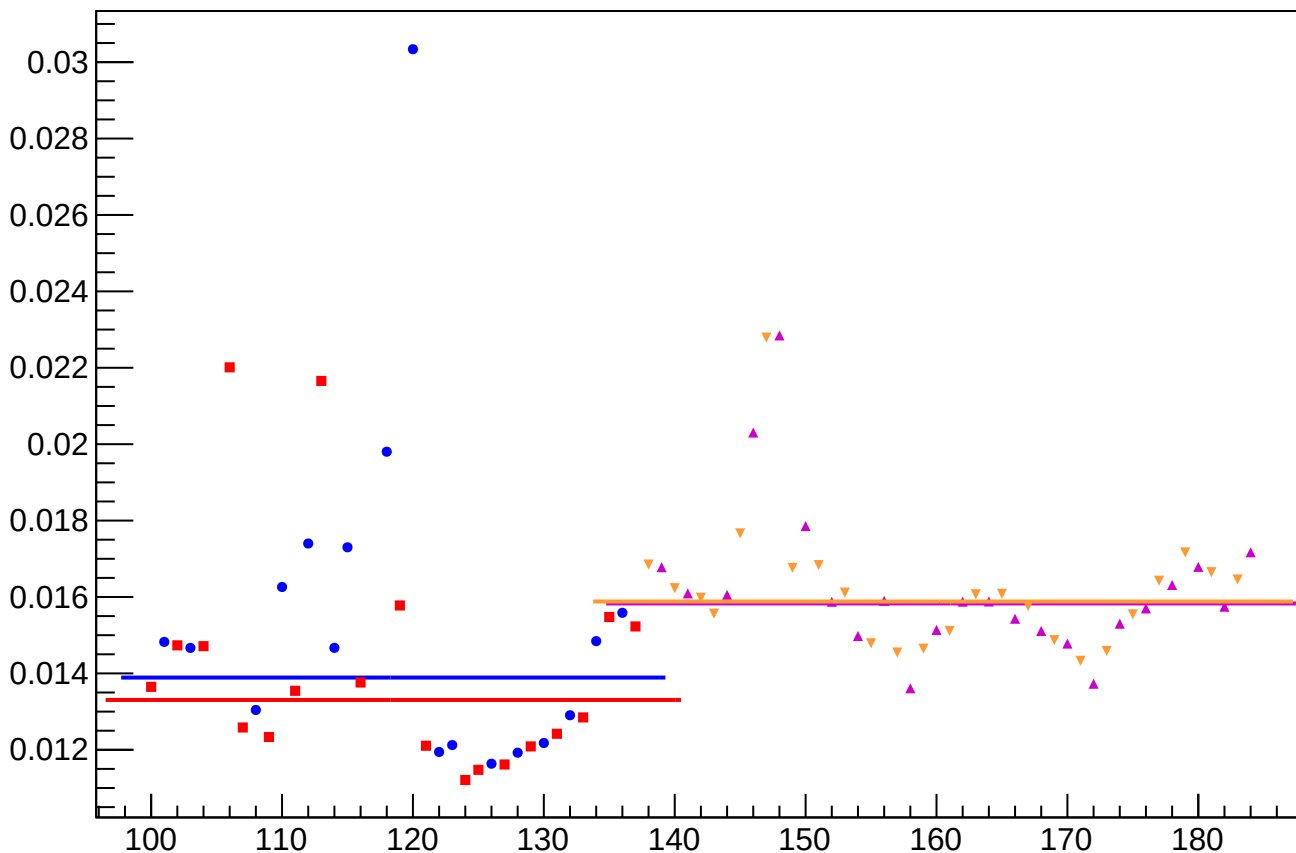
Right: 0.045+/-0.000 χ^2/NDF : 38859685690.3/35

In: -2.251+/-0.000 χ^2/NDF : 283913919741.0/39

Out: -2.179+/-0.000 χ^2/NDF : 283001573081.7/42

All: -2.213+/-0.000 χ^2/NDF : 567181967647.5

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 401280.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :249520.3/23

Right Out: 0.013+/-0.000 χ^2/NDF : 293774.0/18

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 589238.4/46

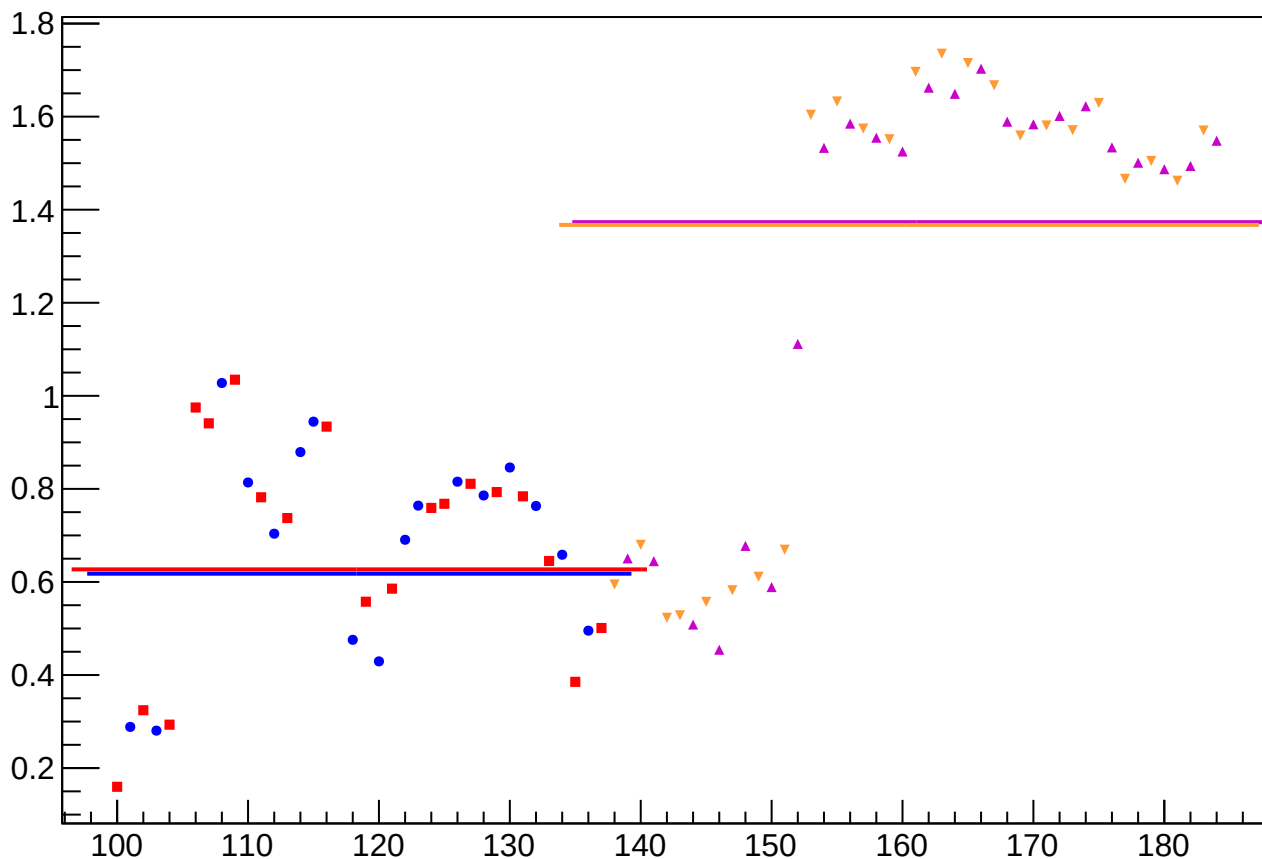
Right: 0.014+/-0.000 χ^2/NDF : 706451.8/35

In: 0.015+/-0.000 χ^2/NDF :898212.7/39

Out: 0.015+/-0.000 χ^2/NDF :859016.7/42

All: 0.015+/-0.000 χ^2/NDF : 1762479.9/82

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.618+/-0.000 χ^2/NDF : 5402179431.9/16

Left Out: 1.367+/-0.000 χ^2/NDF : 73269807755.0/23

Right Out: 0.627+/-0.000 χ^2/NDF : 6335950203.8/18

Left In: 1.373+/-0.000 χ^2/NDF : 63413151416.3/22

Left: 1.370+/-0.000 χ^2/NDF : 136690183914.6/46

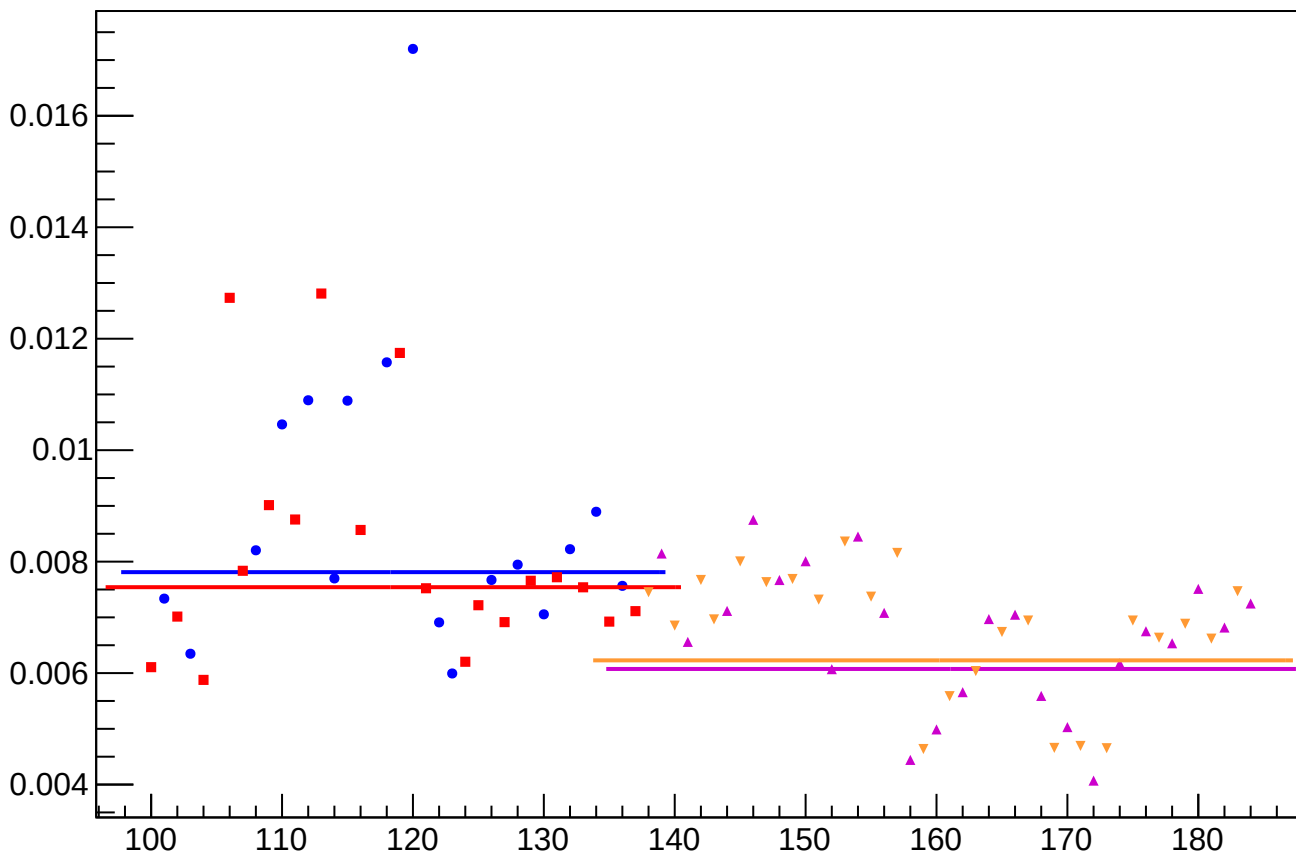
Right: 0.623+/-0.000 χ^2/NDF : 11742487820.7/35

In: 1.236+/-0.000 χ^2/NDF : 113172575549.7/39

Out: 1.215+/-0.000 χ^2/NDF : 126903848430.2/42

All: 1.225+/-0.000 χ^2/NDF : 240187316040.1

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 467235.0/16

Left Out: 0.006+/-0.000 χ^2/NDF :1309364.3/23

Right Out: 0.008+/-0.000 χ^2/NDF : 441480.1/18

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2751441.3/46

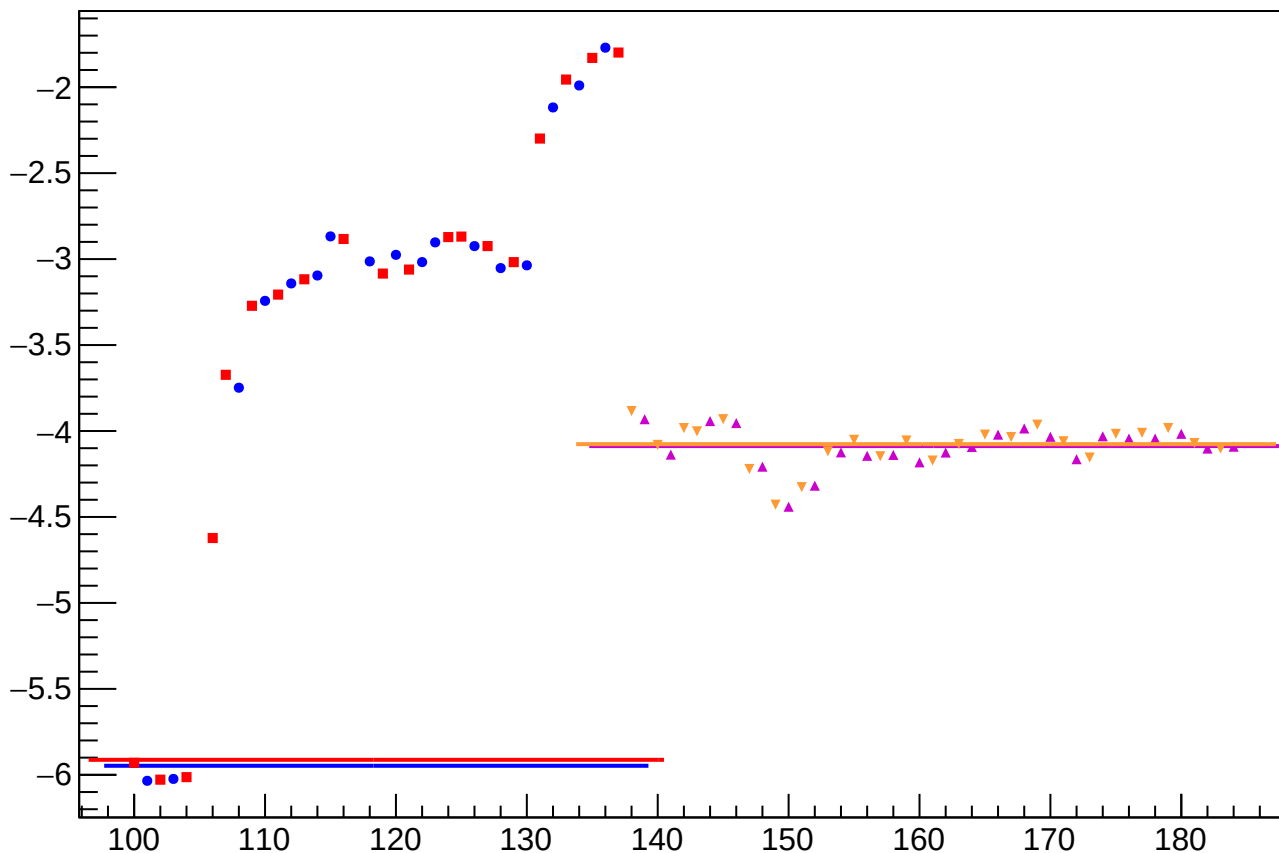
Right: 0.008+/-0.000 χ^2/NDF : 916097.9/35

In: 0.006+/-0.000 χ^2/NDF :2368410.1/39

Out: 0.006+/-0.000 χ^2/NDF :2048426.9/42

All: 0.006+/-0.000 χ^2/NDF : 4422979.8/82

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947 ± 0.000 $\chi^2/\text{NDF}: 13110506154.0/16$

Left Out: -4.076 ± 0.000 $\chi^2/\text{NDF}: 36191828.1/23$

Right Out: -5.913 ± 0.000 $\chi^2/\text{NDF}: 14598904051.6/18$

Left In: -4.088 ± 0.000 $\chi^2/\text{NDF}: 34412880.7/22$

Left: -4.084 ± 0.000 $\chi^2/\text{NDF}: 70800406.3/46$

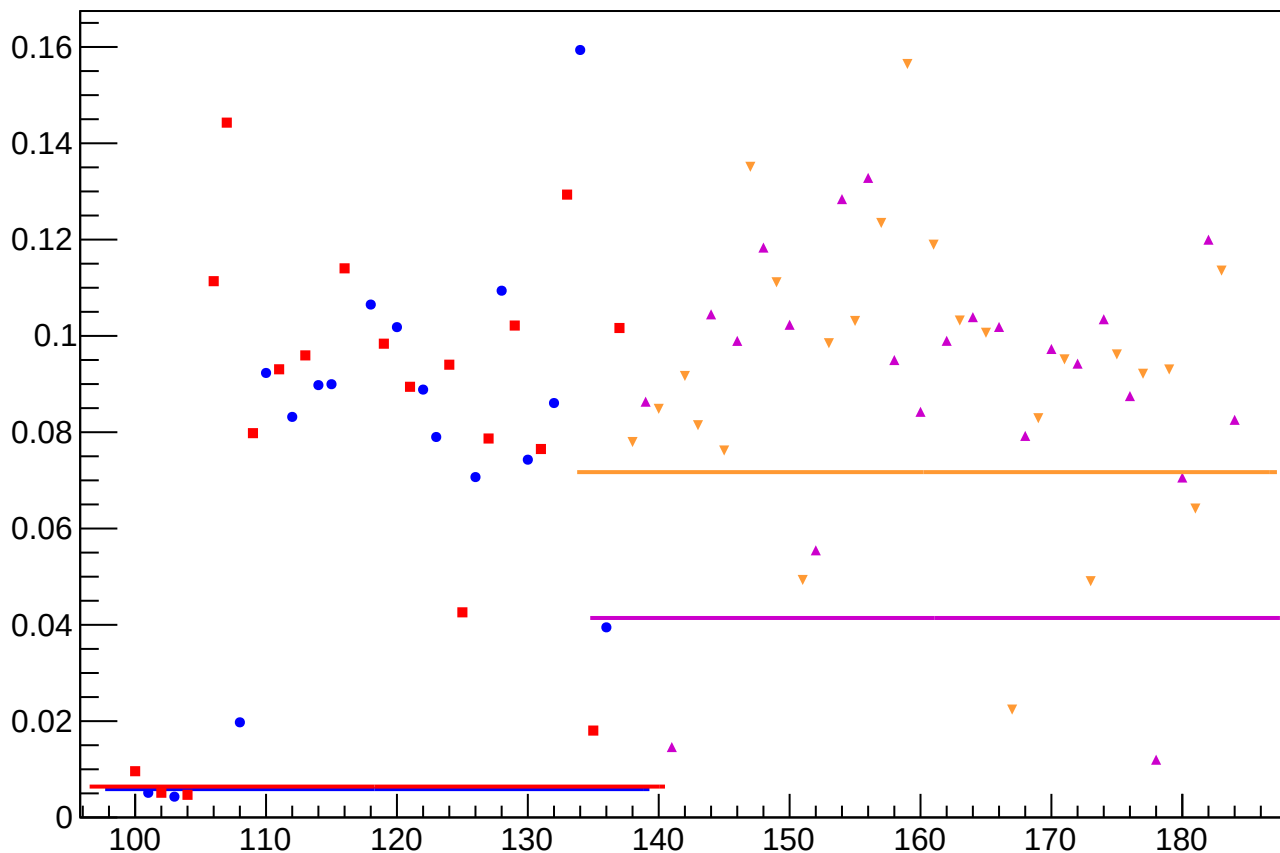
Right: -5.932 ± 0.000 $\chi^2/\text{NDF}: 27734843277.8/35$

In: -5.794 ± 0.000 $\chi^2/\text{NDF}: 26674621593.1/39$

Out: -5.803 ± 0.000 $\chi^2/\text{NDF}: 22351019187.7/42$

All: -5.798 ± 0.000 $\chi^2/\text{NDF}: 49027384316.5/80$

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 7912012.3/16

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 5168247.1/23

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 8462409.6/18

Left In: 0.041 $\pm$ 0.000 χ^2 /NDF: 13124468.7/22

Left: 0.052 $\pm$ 0.000 χ^2 /NDF: 21136471.8/46

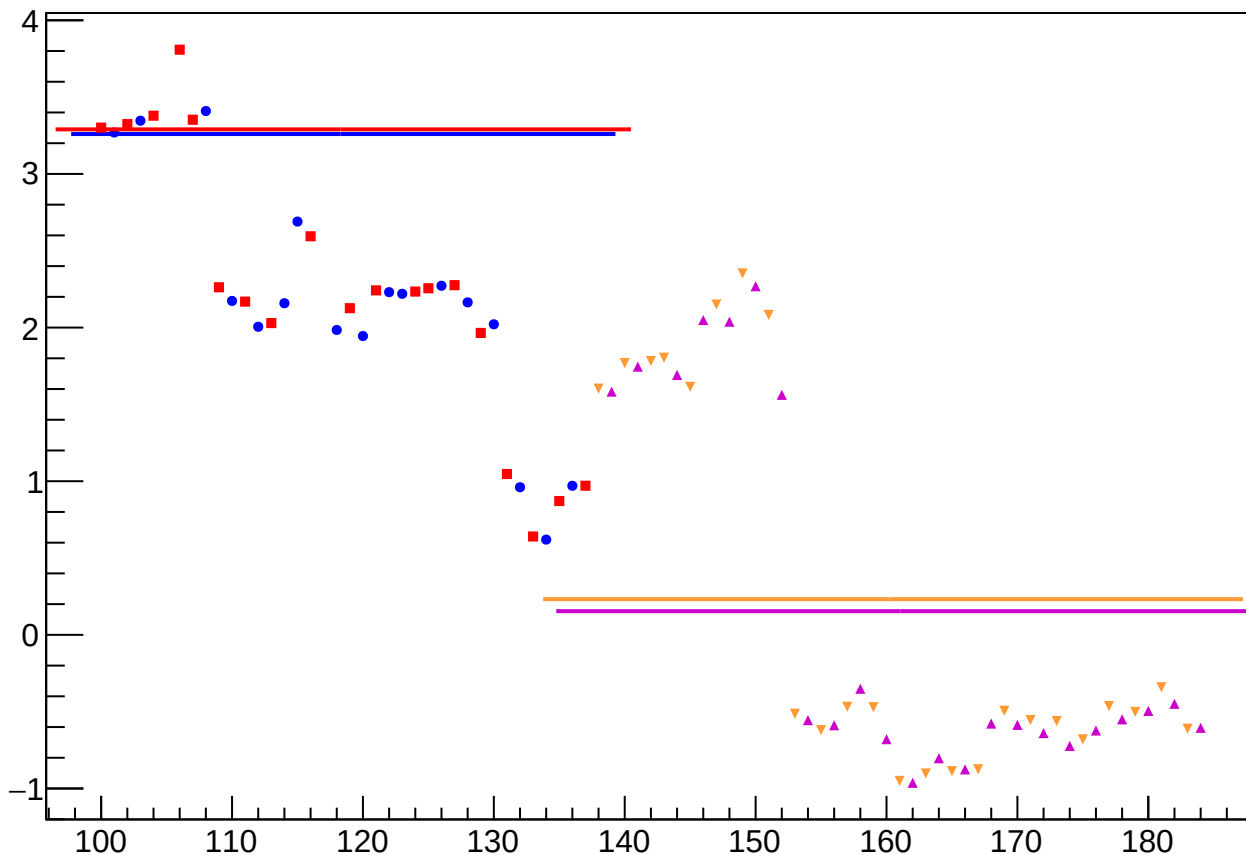
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 16386134.2/35

In: 0.009 $\pm$ 0.000 χ^2 /NDF: 30920273.3/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 33150398.9/42

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 64173996.5/82

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260 $\pm$ 0.000 χ^2/NDF : 2914830636.8/16

Left Out: 0.232 $\pm$ 0.000 χ^2/NDF :3123952701.9/23

Right Out: 3.290 $\pm$ 0.000 χ^2/NDF : 3257931929.9/18

Left In: 0.154 $\pm$ 0.000 χ^2/NDF :3163553595.0/22

Left: 0.189 $\pm$ 0.000 χ^2/NDF : 6294586746.0/46

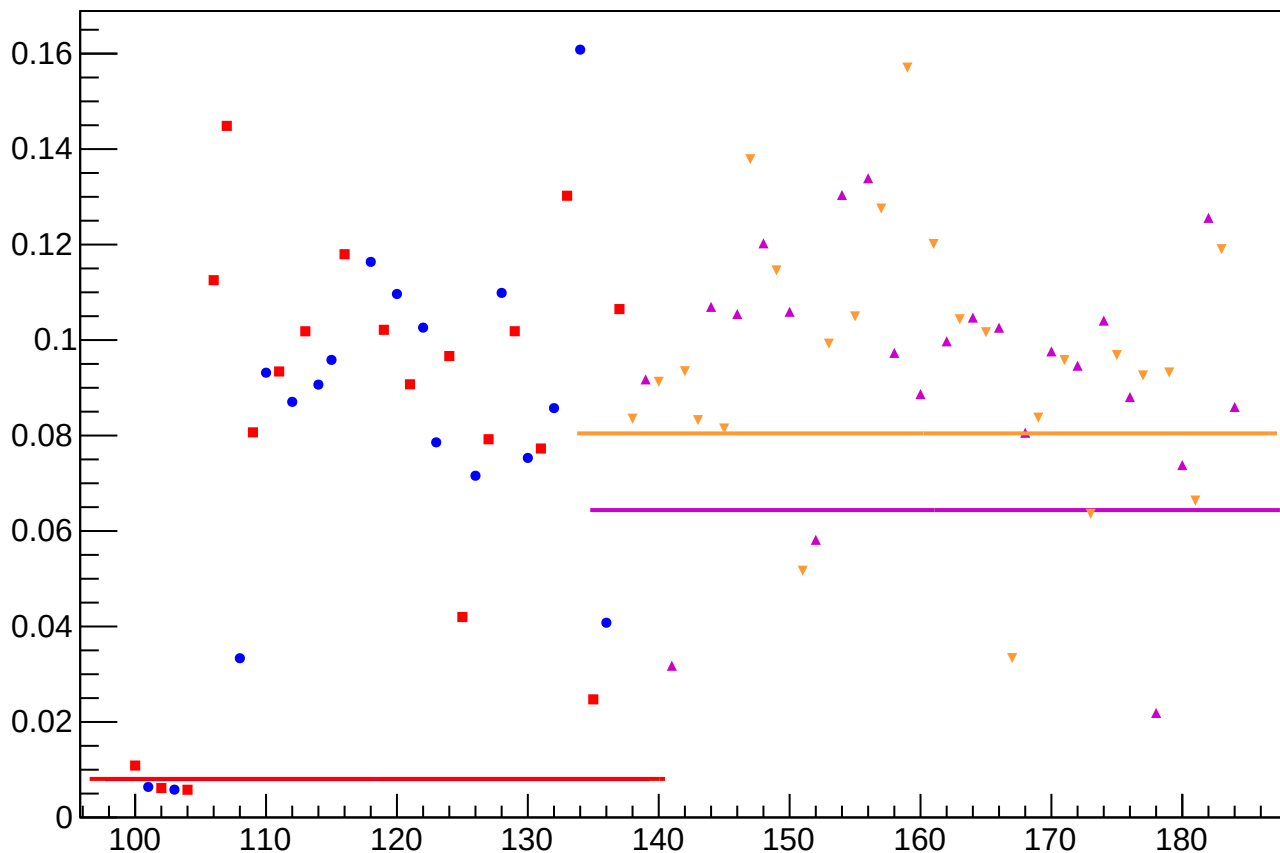
Right: 3.274 $\pm$ 0.000 χ^2/NDF : 6185493270.5/35

In: 3.004 $\pm$ 0.000 χ^2/NDF :28905118654.9/39

Out: 3.065 $\pm$ 0.000 χ^2/NDF :24632843580.5/42

All: 3.033 $\pm$ 0.000 χ^2/NDF : 53592637614.5/80

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7721103.3/16

Left Out: 0.080 $\pm$ 0.000 χ^2 /NDF:3341319.2/23

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8274347.6/18

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

Left: 0.072 $\pm$ 0.000 χ^2 /NDF: 10929952.2/46

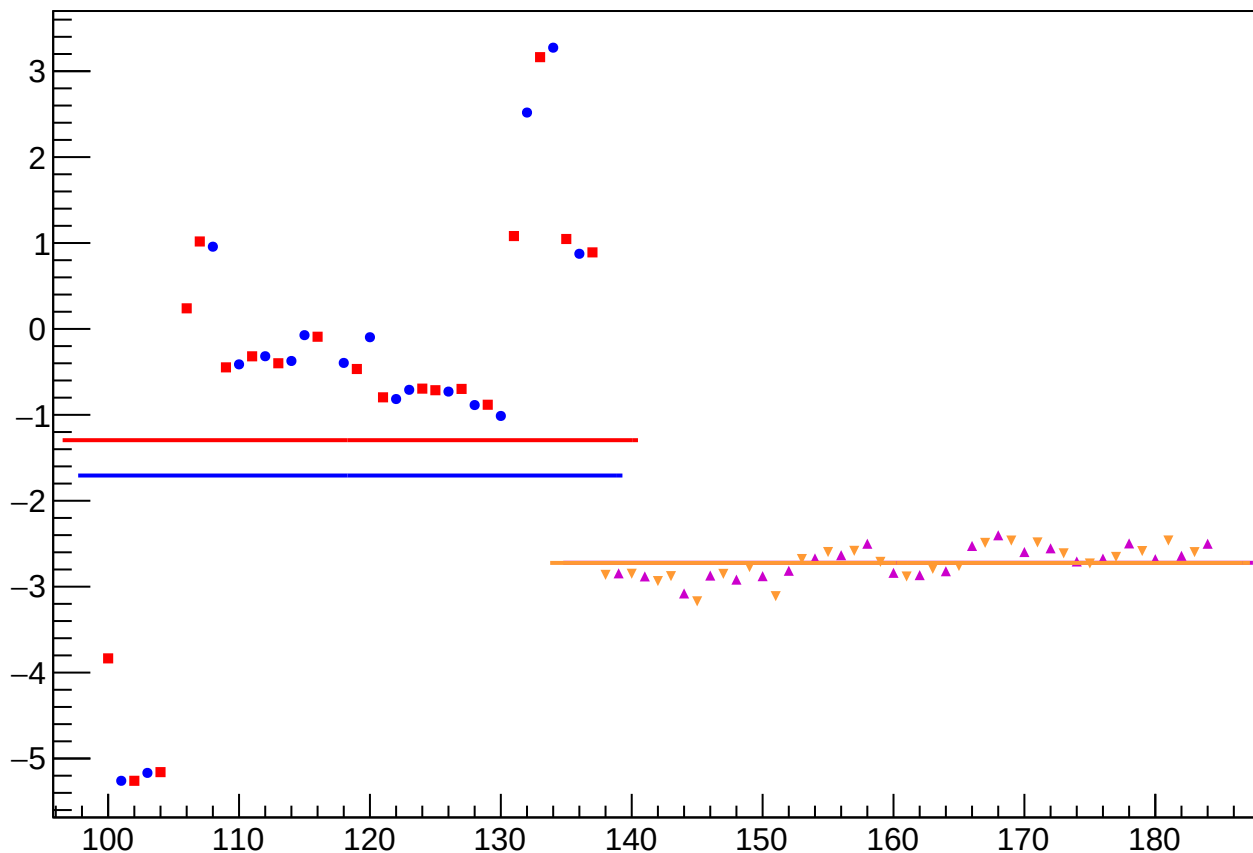
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 15995510.5/35

In: 0.013 $\pm$ 0.000 χ^2 /NDF:29748727.3/39

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:32066436.1/42

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 61831763.6/82

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.706+/-0.000 χ^2/NDF : 166152957432.2/16

Left Out: -2.723+/-0.000 χ^2/NDF : 10121568424.9/23

Right Out: -1.295+/-0.000 χ^2/NDF : 178454284120.5/18

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.723+/-0.000 χ^2/NDF : 18268352942.7/46

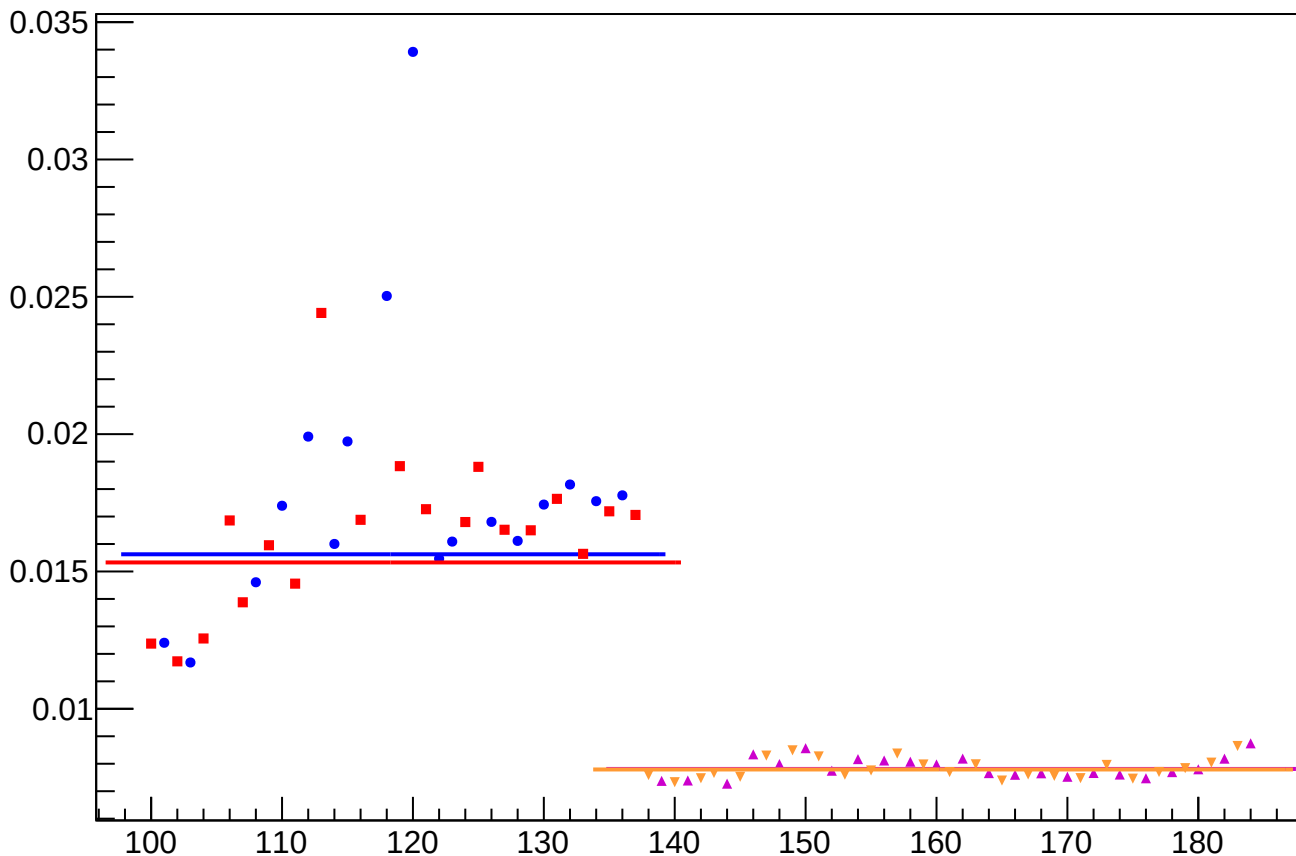
Right: -1.486+/-0.000 χ^2/NDF : 346679077409.6/35

In: -2.644+/-0.000 χ^2/NDF : 196091674468.9/39

Out: -2.603+/-0.000 χ^2/NDF : 237774656394.7/42

All: -2.623+/-0.000 χ^2/NDF : 434116973604.8

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.000 χ^2/NDF : 576262.6/16

Left Out: 0.008 $\pm$ 0.000 χ^2/NDF : 67435.3/23

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 349445.5/18

Left In: 0.008 $\pm$ 0.000 χ^2/NDF : 67610.2/22

Left: 0.008 $\pm$ 0.000 χ^2/NDF : 135150.1/46

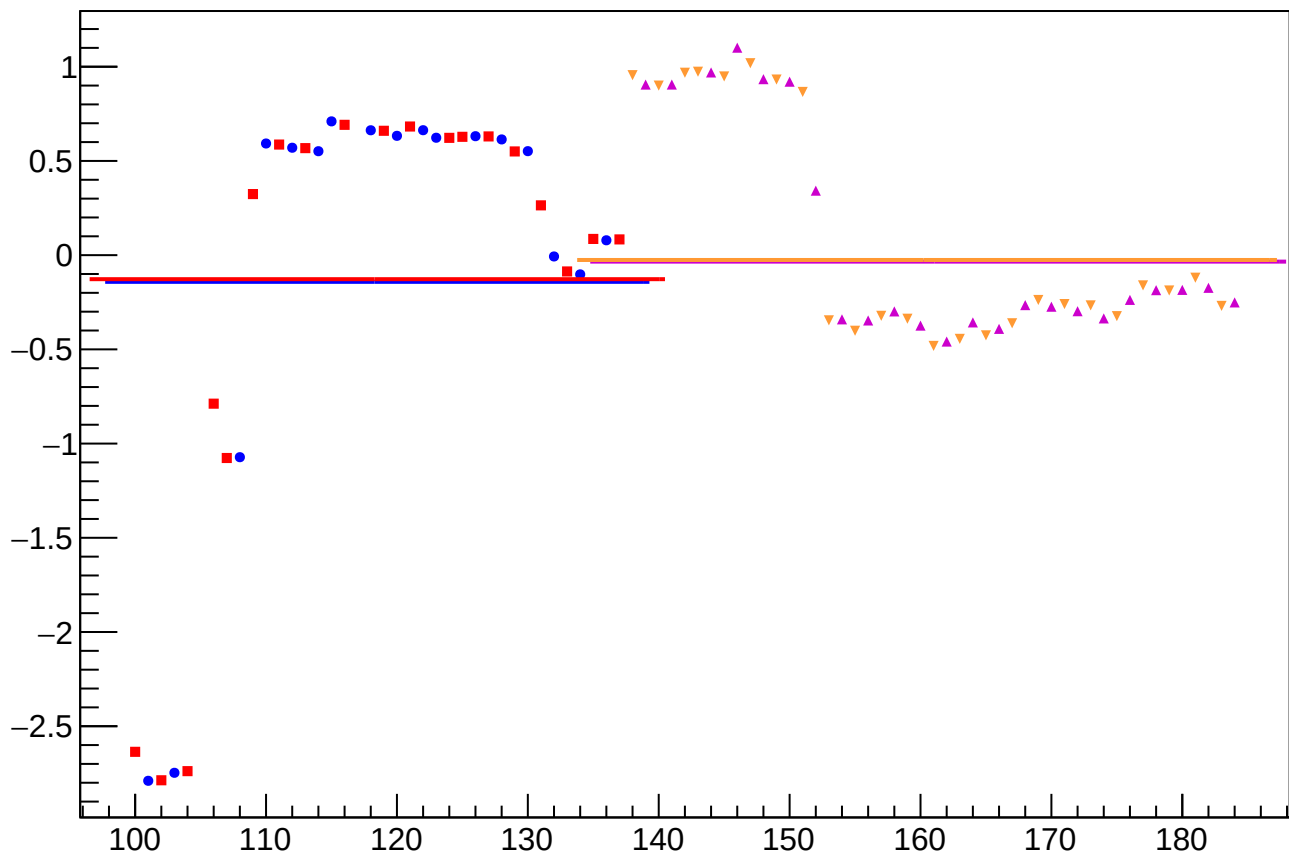
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 927870.4/35

In: 0.008 $\pm$ 0.000 χ^2/NDF : 3224593.1/39

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 3156728.5/42

All: 0.008 $\pm$ 0.000 χ^2/NDF : 6381373.3/82

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.142 $\pm$ 0.000 χ^2 /NDF: 713960839307.6/16

Left Out: -0.026 $\pm$ 0.000 χ^2 /NDF: 133283106399.8/23

Right Out: -0.128 $\pm$ 0.000 χ^2 /NDF: 760638736693.8/18

Left In: -0.034 $\pm$ 0.000 χ^2 /NDF: 113929060918.1/22

Left: -0.030 $\pm$ 0.000 χ^2 /NDF: 247230030198.1/46

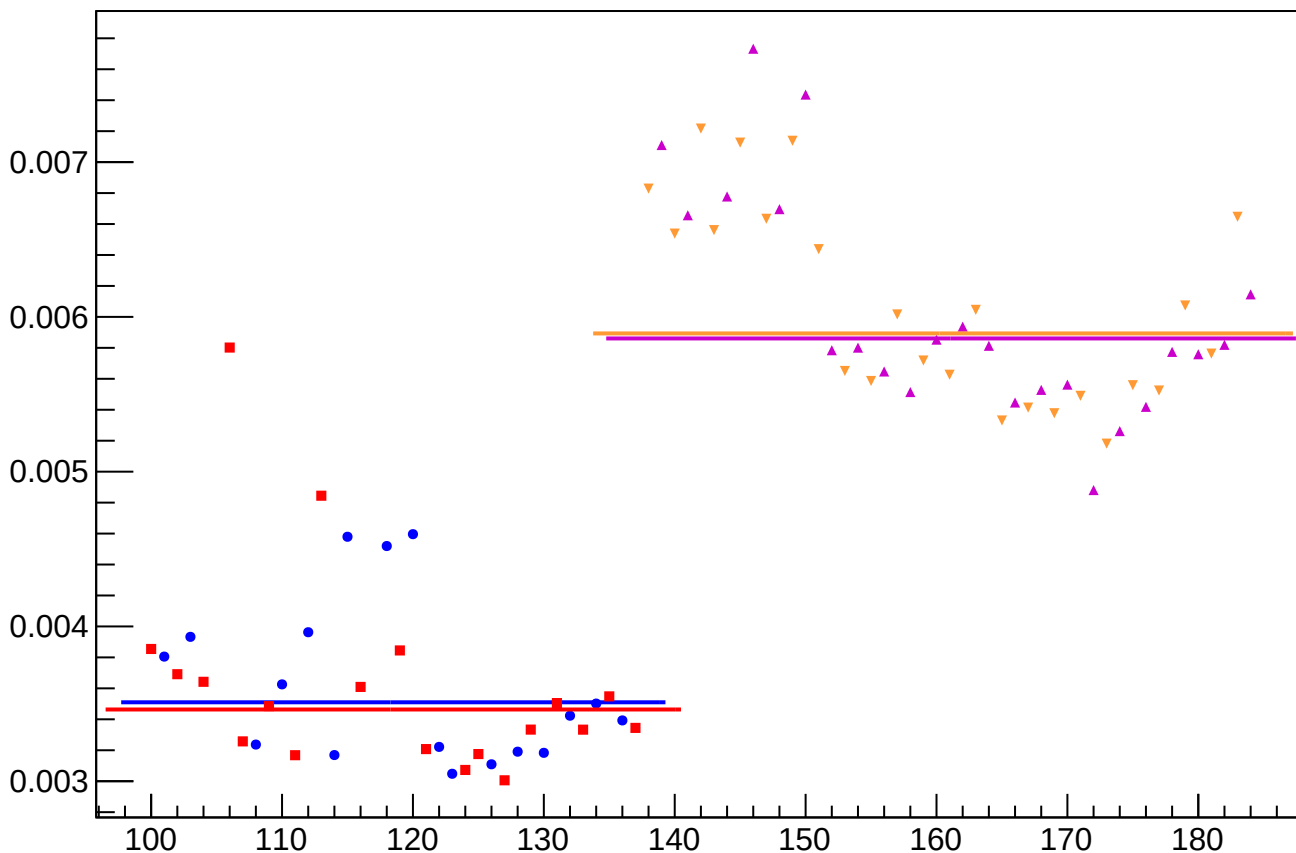
Right: -0.134 $\pm$ 0.000 χ^2 /NDF: 1474652420733.4/3

In: -0.090 $\pm$ 0.000 χ^2 /NDF: 830692306788.9/39

Out: -0.081 $\pm$ 0.000 χ^2 /NDF: 896589704037.4/42

All: -0.085 $\pm$ 0.000 χ^2 /NDF: 1727330480971

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171943.8/16

Left Out: 0.006+/-0.000 χ^2/NDF :298604.8/23

Right Out: 0.003+/-0.000 χ^2/NDF : 215500.5/18

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 663611.0/46

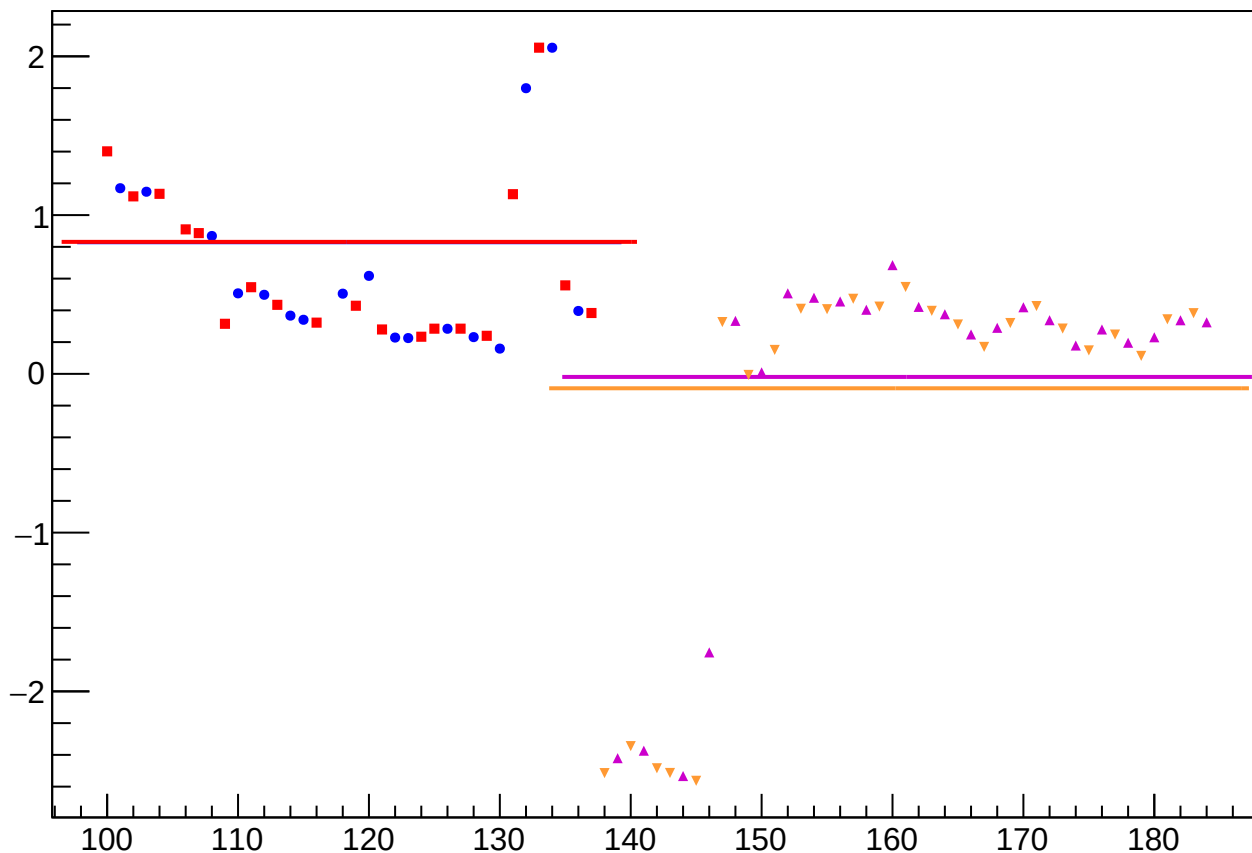
Right: 0.003+/-0.000 χ^2/NDF : 388598.7/35

In: 0.005+/-0.000 χ^2/NDF :3228297.3/39

Out: 0.005+/-0.000 χ^2/NDF :3547799.2/42

All: 0.005+/-0.000 χ^2/NDF : 6778532.8/82

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829+/-0.000 χ^2/NDF : 31663410264.3/16

Left Out: -0.091+/-0.000 χ^2/NDF : 492360625913.1/23

Right Out: 0.831+/-0.000 χ^2/NDF : 33383369168.0/18

Left In: -0.019+/-0.000 χ^2/NDF : 417104863944.5/22

Left: -0.056+/-0.000 χ^2/NDF : 910746429917.3/46

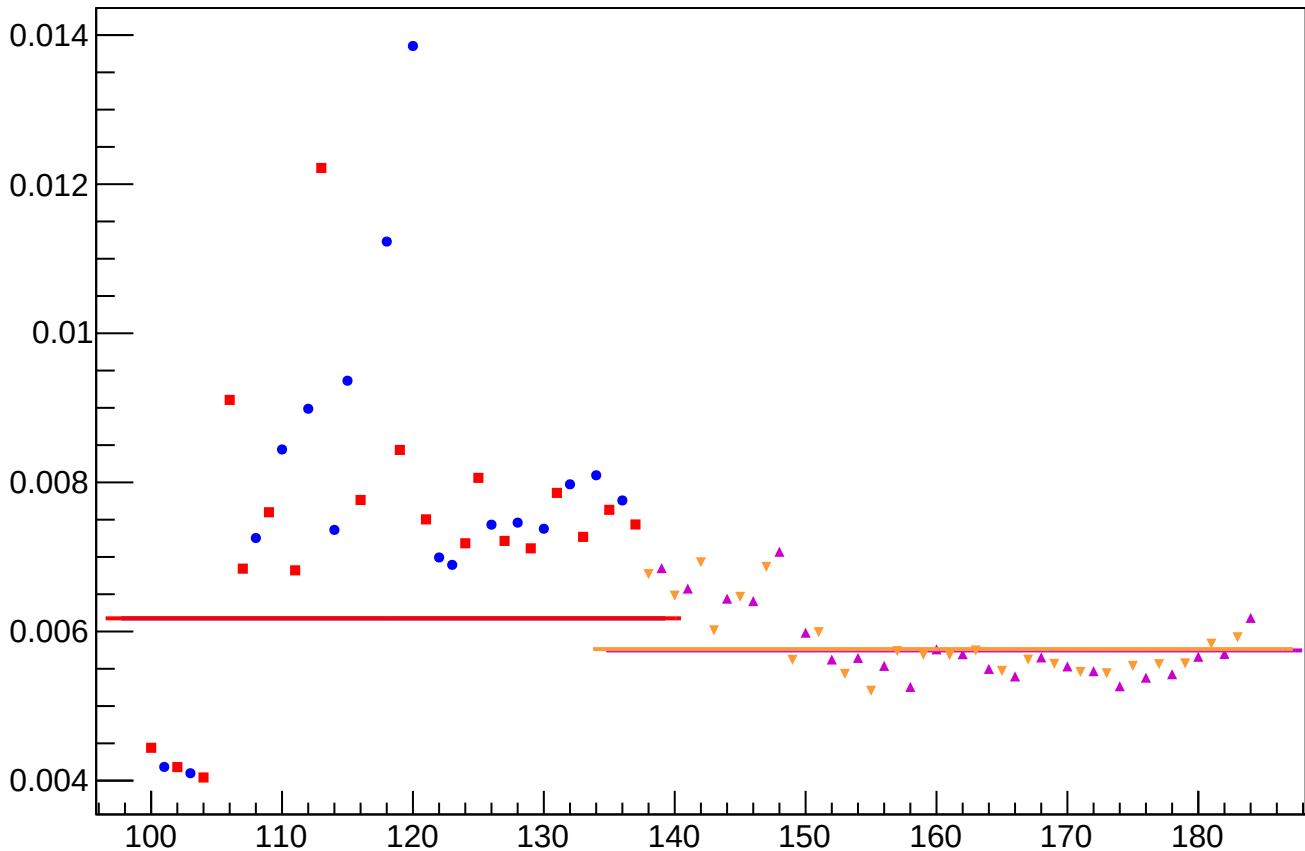
Right: 0.830+/-0.000 χ^2/NDF : 65047160404.8/35

In: 0.167+/-0.000 χ^2/NDF : 526855986998.4/39

Out: 0.122+/-0.000 χ^2/NDF : 625179084900.2/42

All: 0.144+/-0.000 χ^2/NDF : 1152698956747.3/46

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1221890.6/16

Left Out: 0.006+/-0.000 χ^2/NDF :174105.4/23

Right Out: 0.006+/-0.000 χ^2/NDF : 1020690.2/18

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 378325.4/46

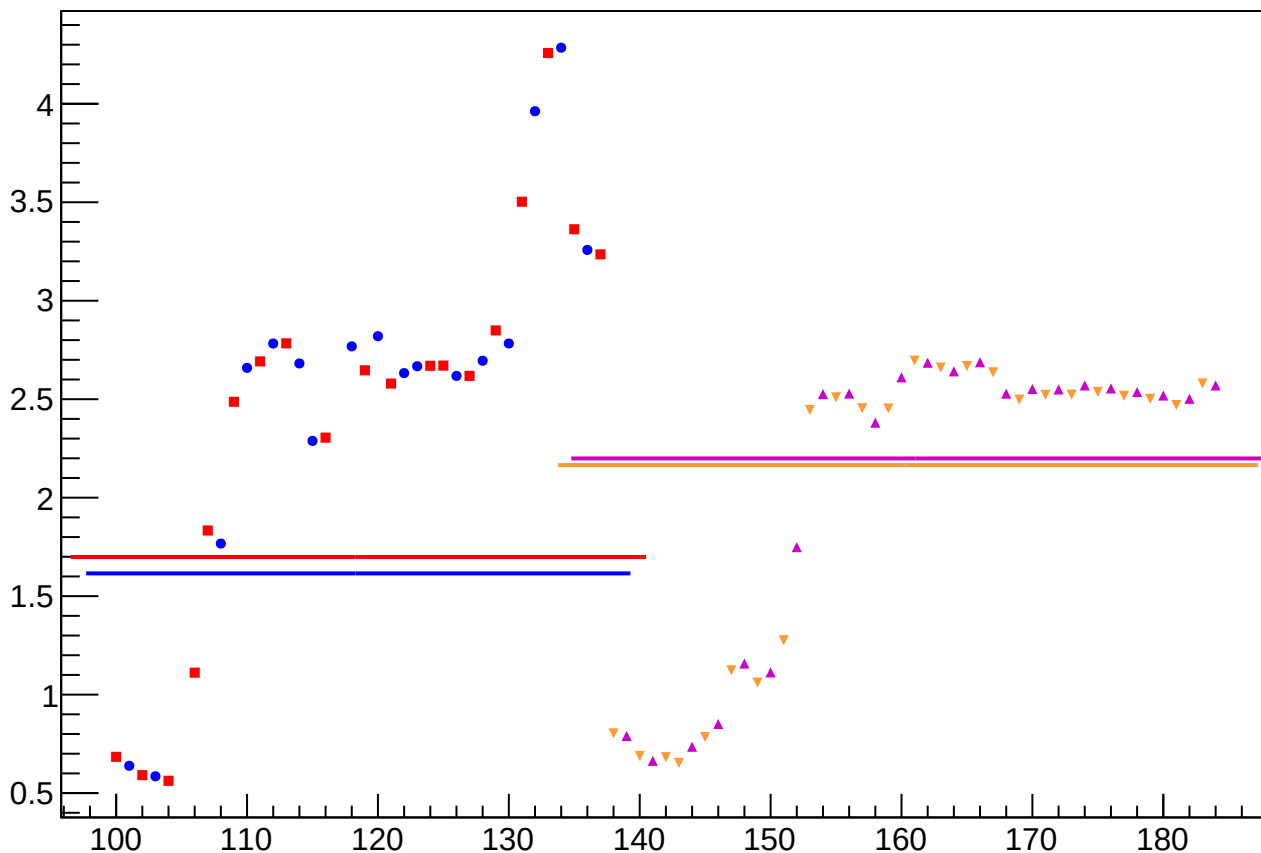
Right: 0.006+/-0.000 χ^2/NDF : 2242581.1/35

In: 0.006+/-0.000 χ^2/NDF :1465904.8/39

Out: 0.006+/-0.000 χ^2/NDF :1234685.3/42

All: 0.006+/-0.000 χ^2/NDF : 2700810.1/82

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.616+/-0.000 χ^2/NDF : 202687681737.9/16

Left Out: 2.166+/-0.000 χ^2/NDF : 287139691303.2/23

Right Out: 1.699+/-0.000 χ^2/NDF : 227853059871.9/18

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 540627908826.6/46

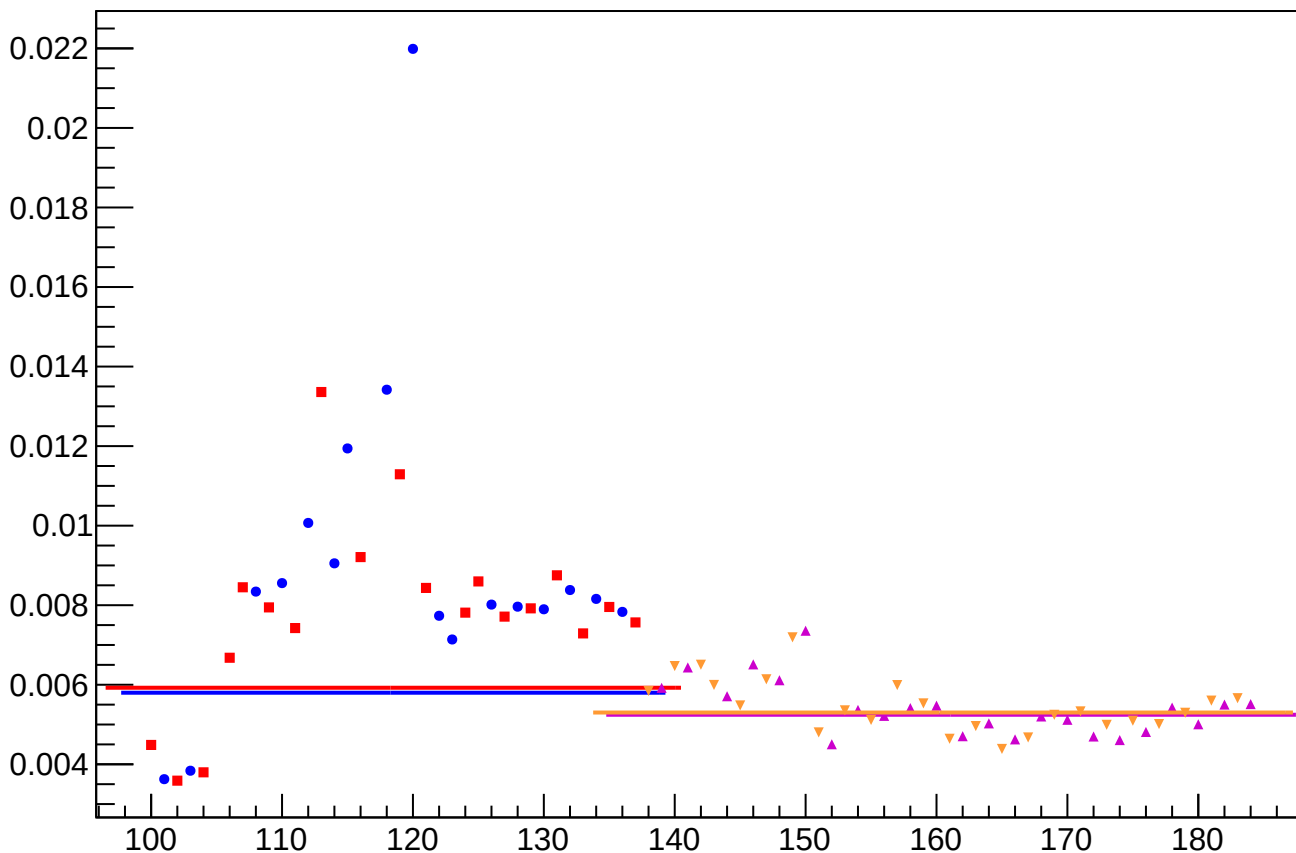
Right: 1.659+/-0.000 χ^2/NDF : 431053573295.4/35

In: 2.082+/-0.000 χ^2/NDF : 494828354987.6/39

Out: 2.068+/-0.000 χ^2/NDF : 541265611716.5/42

All: 2.075+/-0.000 χ^2/NDF : 1036164748715.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1911401.2/16

Left Out: 0.005+/-0.000 χ^2/NDF : 384398.2/23

Right Out: 0.006+/-0.000 χ^2/NDF : 1677224.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 812081.6/46

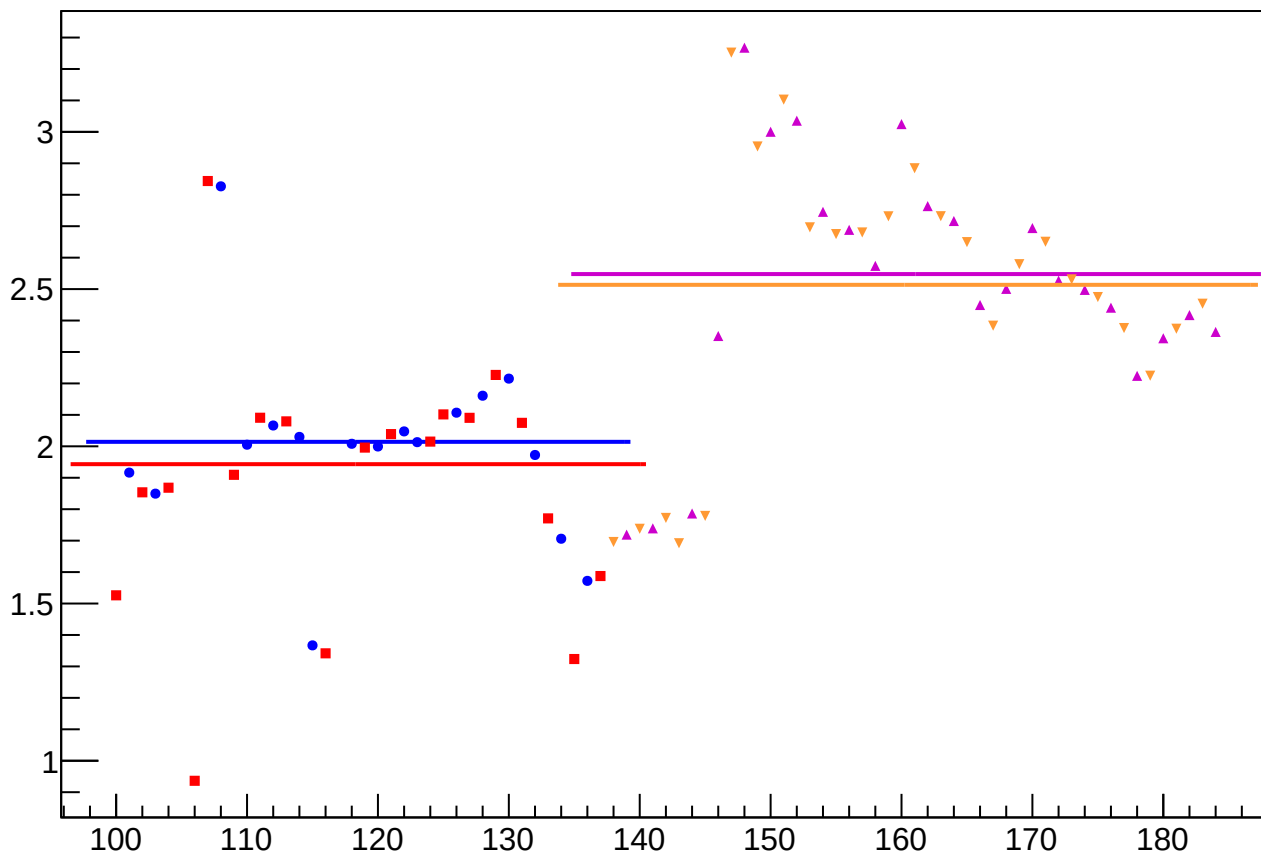
Right: 0.006+/-0.000 χ^2/NDF : 3590939.0/35

In: 0.005+/-0.000 χ^2/NDF : 2407511.5/39

Out: 0.005+/-0.000 χ^2/NDF : 2155240.7/42

All: 0.005+/-0.000 χ^2/NDF : 4566843.4/82

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.014+/-0.000

χ^2/NDF : 12207088036.2/16

Left: 2.531+/-0.000

χ^2/NDF : 96787961896.3/46

Left Out: 2.514+/-0.000

χ^2/NDF : 51250734769.7/23

Right: 1.977+/-0.000

χ^2/NDF : 33985983843.8/35

Right Out: 1.943+/-0.000

χ^2/NDF : 21416554404.5/18

In: 2.387+/-0.000

χ^2/NDF : 84687094358.6/39

Out: 2.331+/-0.000

χ^2/NDF : 106243902722.8/42

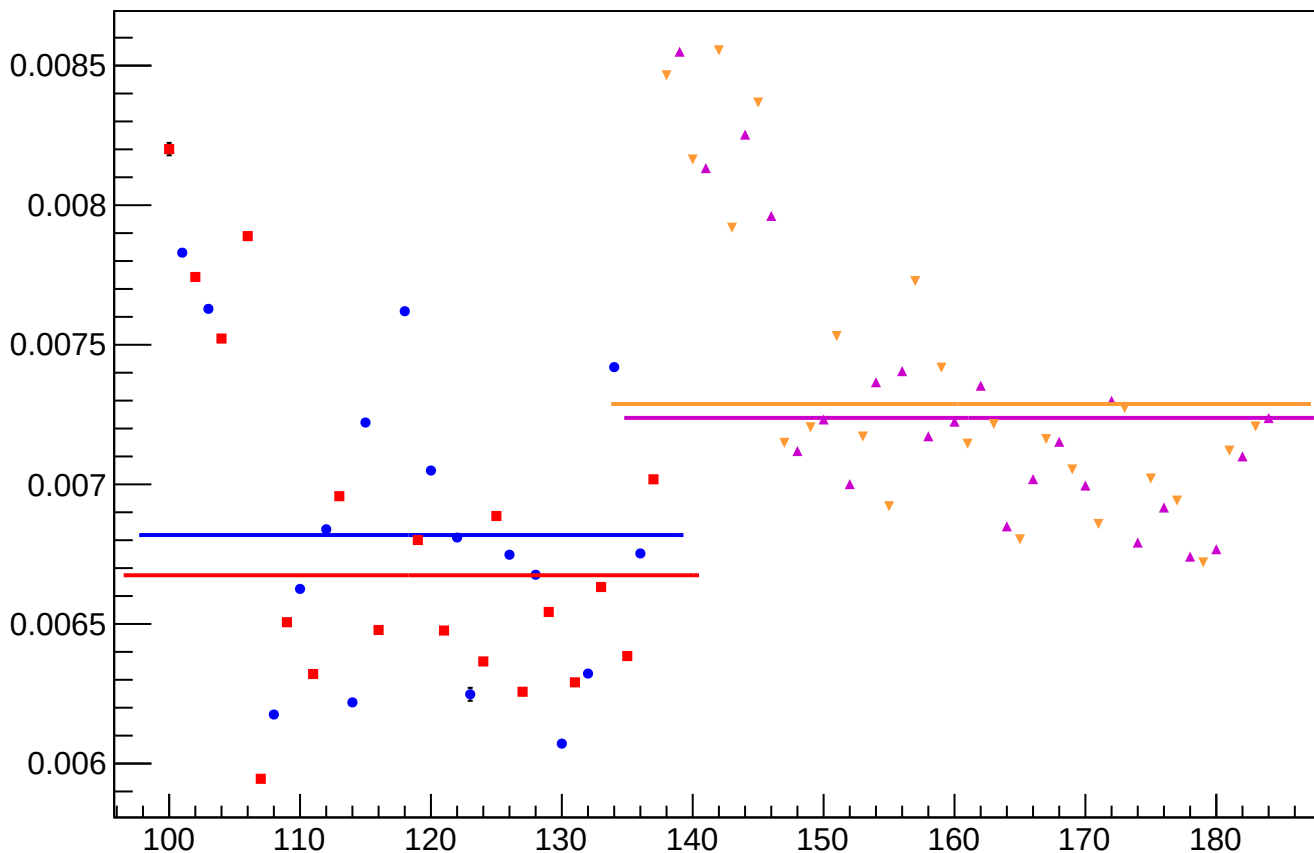
Left In: 2.548+/-0.000

χ^2/NDF : 45350336058.7/22

All: 2.359+/-0.000

χ^2/NDF : 191665067641.0

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 76886.5/16

Left Out: 0.007+/-0.000 χ^2/NDF :137967.3/23

Right Out: 0.007+/-0.000 χ^2/NDF : 76755.5/18

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 263996.9/46

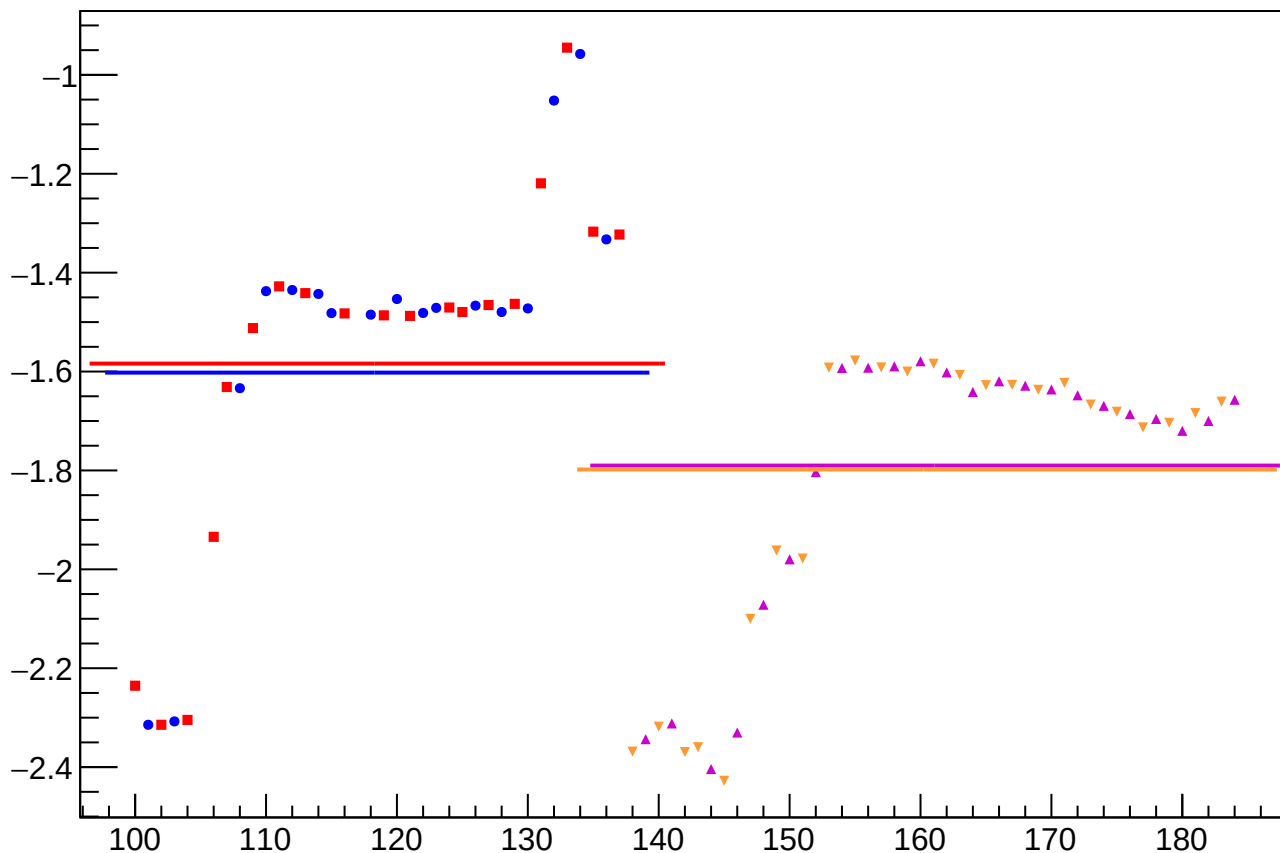
Right: 0.007+/-0.000 χ^2/NDF : 156621.0/35

In: 0.007+/-0.000 χ^2/NDF :235686.9/39

Out: 0.007+/-0.000 χ^2/NDF :292435.4/42

All: 0.007+/-0.000 χ^2/NDF : 528312.5/82

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140170767010.0/16

Left Out: -1.798+/-0.000 χ^2/NDF : 180822121087.0/23

Right Out: -1.584+/-0.000 χ^2/NDF : 143827090276.5/18

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.794+/-0.000 χ^2/NDF : 340543078697.5/46

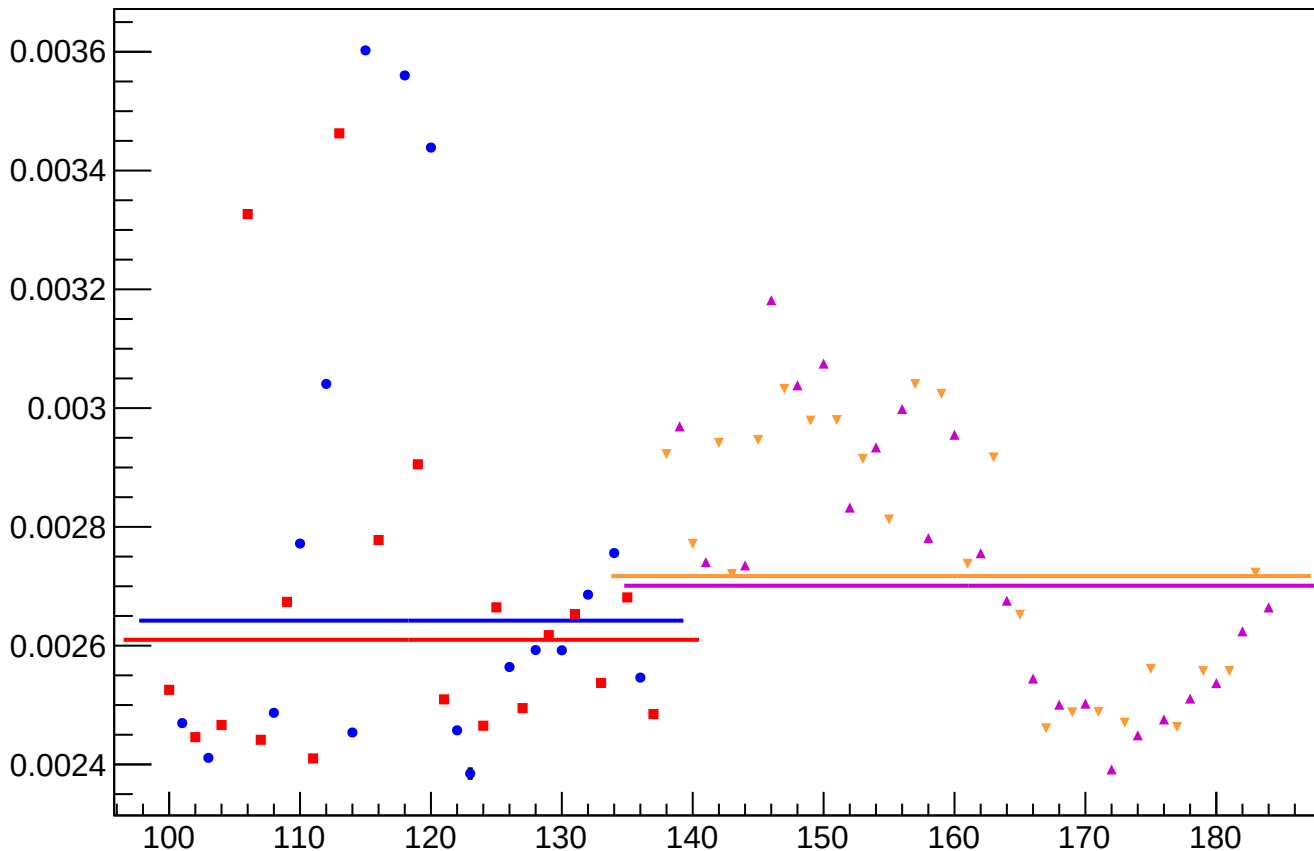
Right: -1.593+/-0.000 χ^2/NDF : 284153928526.3/35

In: -1.737+/-0.000 χ^2/NDF : 322545853944.5/39

Out: -1.735+/-0.000 χ^2/NDF : 356216088893.5/42

All: -1.736+/-0.000 χ^2/NDF : 678770778263.3

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151919.2/16

Left Out: 0.003+/-0.000 χ^2/NDF :199479.2/23

Right Out: 0.003+/-0.000 χ^2/NDF : 104781.3/18

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420410.3/46

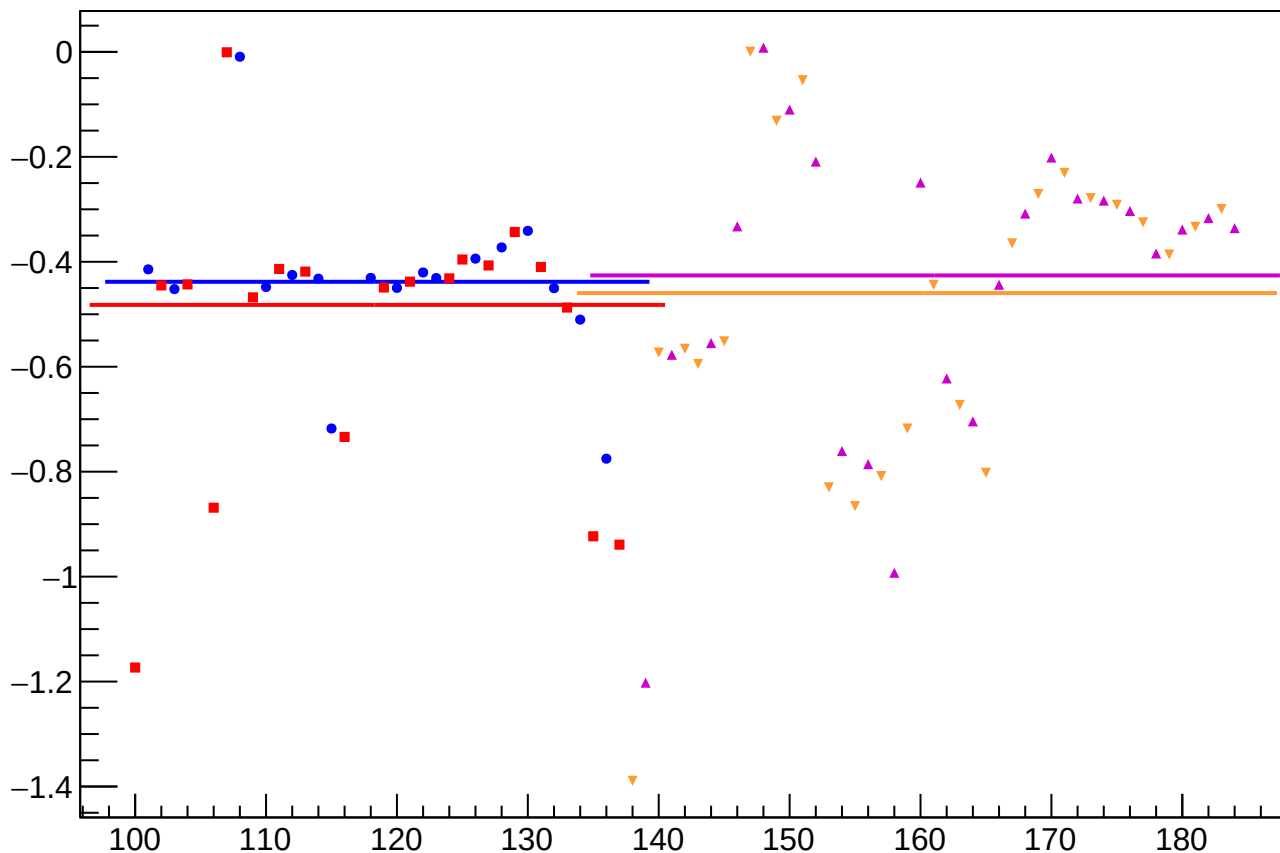
Right: 0.003+/-0.000 χ^2/NDF : 257674.4/35

In: 0.003+/-0.000 χ^2/NDF :376689.7/39

Out: 0.003+/-0.000 χ^2/NDF :320089.3/42

All: 0.003+/-0.000 χ^2/NDF : 696782.6/82

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438+/-0.000 χ^2/NDF : 1461198978.4/16

Left Out: -0.460+/-0.000 χ^2/NDF : 9880064289.8/23

Right Out: -0.482+/-0.000 χ^2/NDF : 2693383941.7/18

Left In: -0.426+/-0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443+/-0.000 χ^2/NDF : 18369108423.6/46

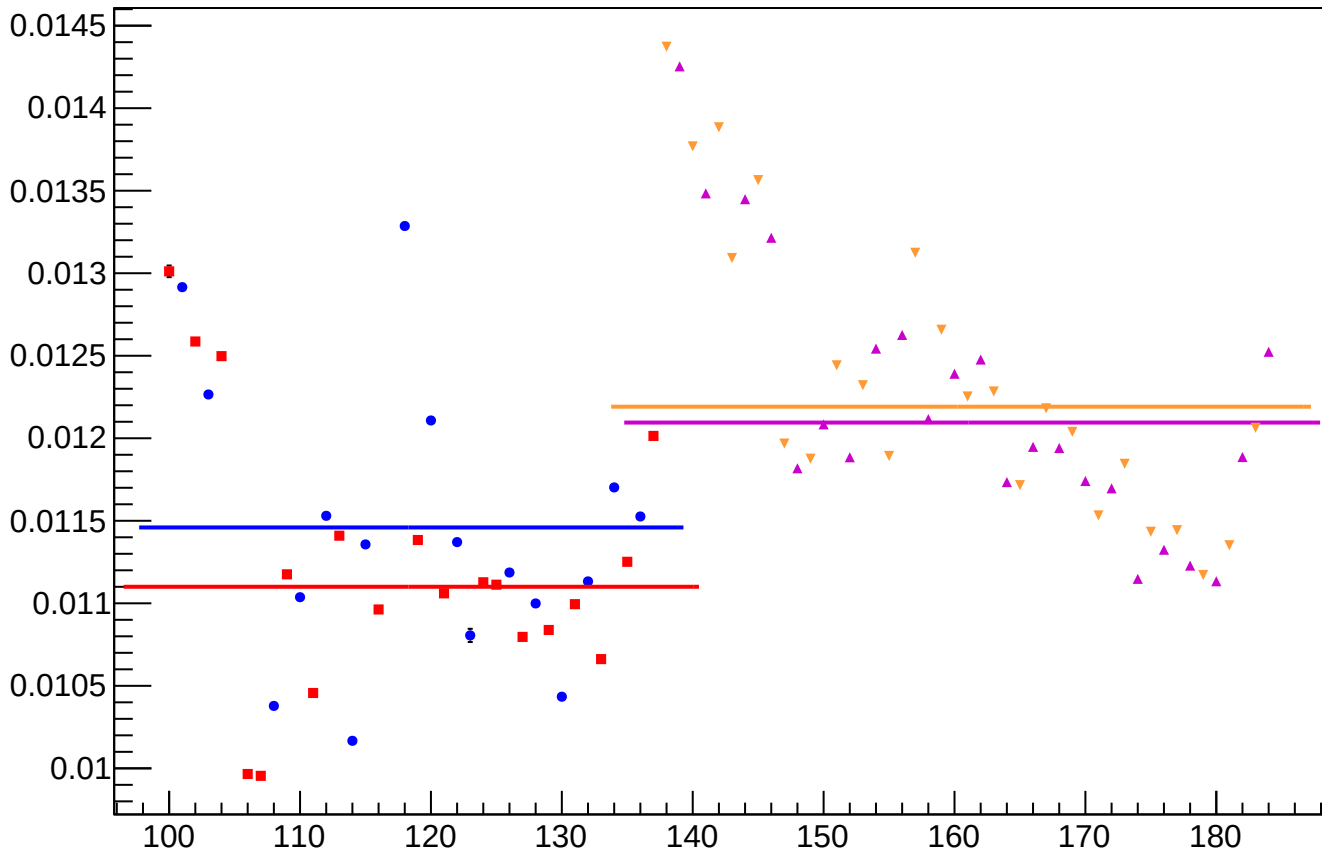
Right: -0.462+/-0.000 χ^2/NDF : 4205367960.5/35

In: -0.430+/-0.000 χ^2/NDF : 9890462777.8/39

Out: -0.467+/-0.000 χ^2/NDF : 12592651989.6/42

All: -0.449+/-0.000 χ^2/NDF : 22599476846.5/46

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64588.0/16

Left Out: 0.012+/-0.000 χ^2/NDF :139225.5/23

Right Out: 0.011+/-0.000 χ^2/NDF : 56096.3/18

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 267595.4/46

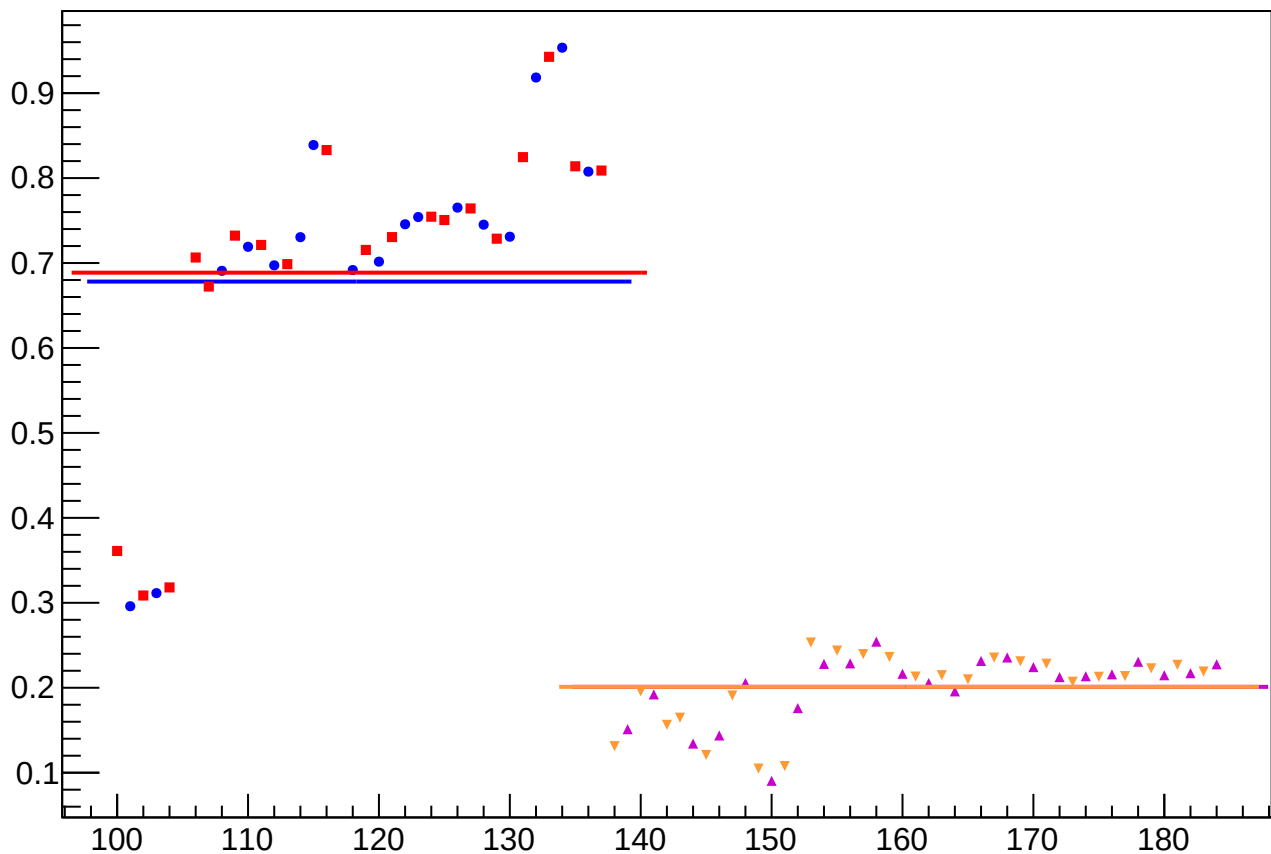
Right: 0.011+/-0.000 χ^2/NDF : 127449.6/35

In: 0.012+/-0.000 χ^2/NDF :219579.9/39

Out: 0.012+/-0.000 χ^2/NDF :285354.1/42

All: 0.012+/-0.000 χ^2/NDF : 505700.3/82

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678 $\pm$ 0.000 χ^2 /NDF: 38485337866.0/16

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 6982246212.1/23

Right Out: 0.689 $\pm$ 0.000 χ^2 /NDF: 35296354242.4/18

Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2 /NDF: 12654022262.2/46

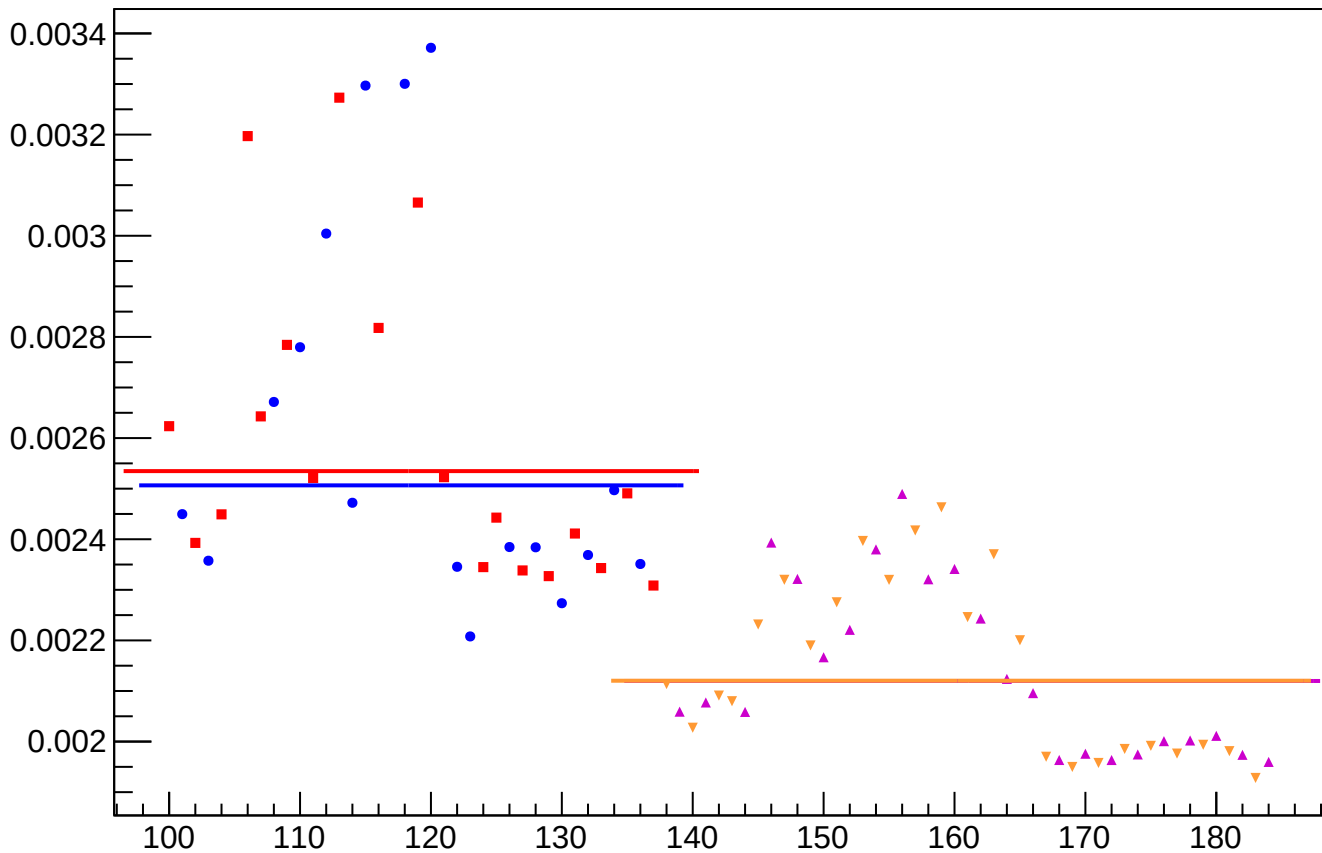
Right: 0.683 $\pm$ 0.000 χ^2 /NDF: 73838176834.0/35

In: 0.301 $\pm$ 0.000 χ^2 /NDF: 225922604984.4/39

Out: 0.303 $\pm$ 0.000 χ^2 /NDF: 237934599263.0/42

All: 0.302 $\pm$ 0.000 χ^2 /NDF: 463863223603.4

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 174398.1/16

Left Out: 0.002+/-0.000 χ^2/NDF :219198.6/23

Right Out: 0.003+/-0.000 χ^2/NDF : 131675.7/18

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 408428.2/46

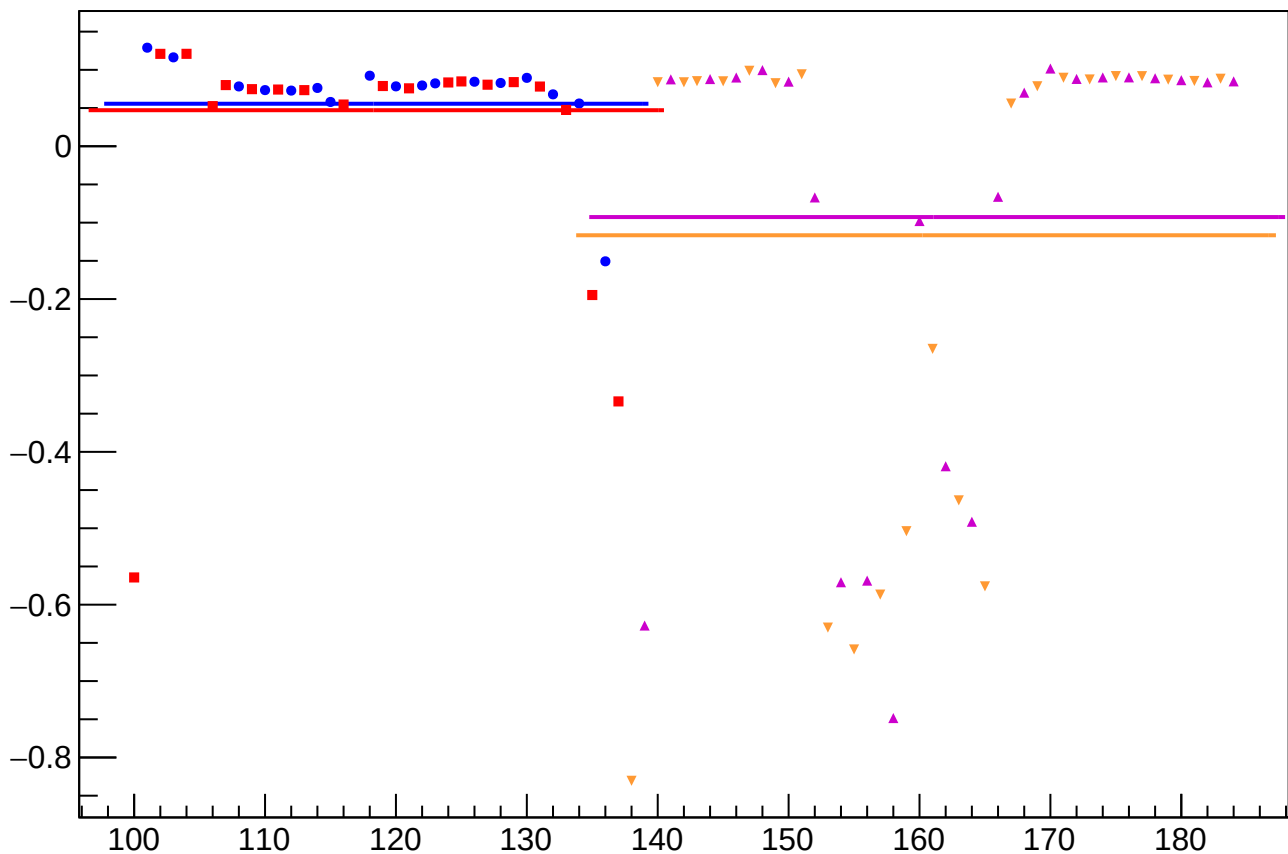
Right: 0.003+/-0.000 χ^2/NDF : 306887.9/35

In: 0.002+/-0.000 χ^2/NDF :602469.5/39

Out: 0.002+/-0.000 χ^2/NDF :633583.4/42

All: 0.002+/-0.000 χ^2/NDF : 1236213.9/82

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 422754930.4/16

Left: -0.105+/-0.000

χ^2/NDF : 24651666793.2/46

Left Out: -0.117+/-0.000

χ^2/NDF : 13559869285.7/23

Right: 0.051+/-0.000

χ^2/NDF : 1244662333.3/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819330612.8/18

In: -0.044+/-0.000

χ^2/NDF : 12470184059.0/39

Out: -0.059+/-0.000

χ^2/NDF : 15718939703.5/42

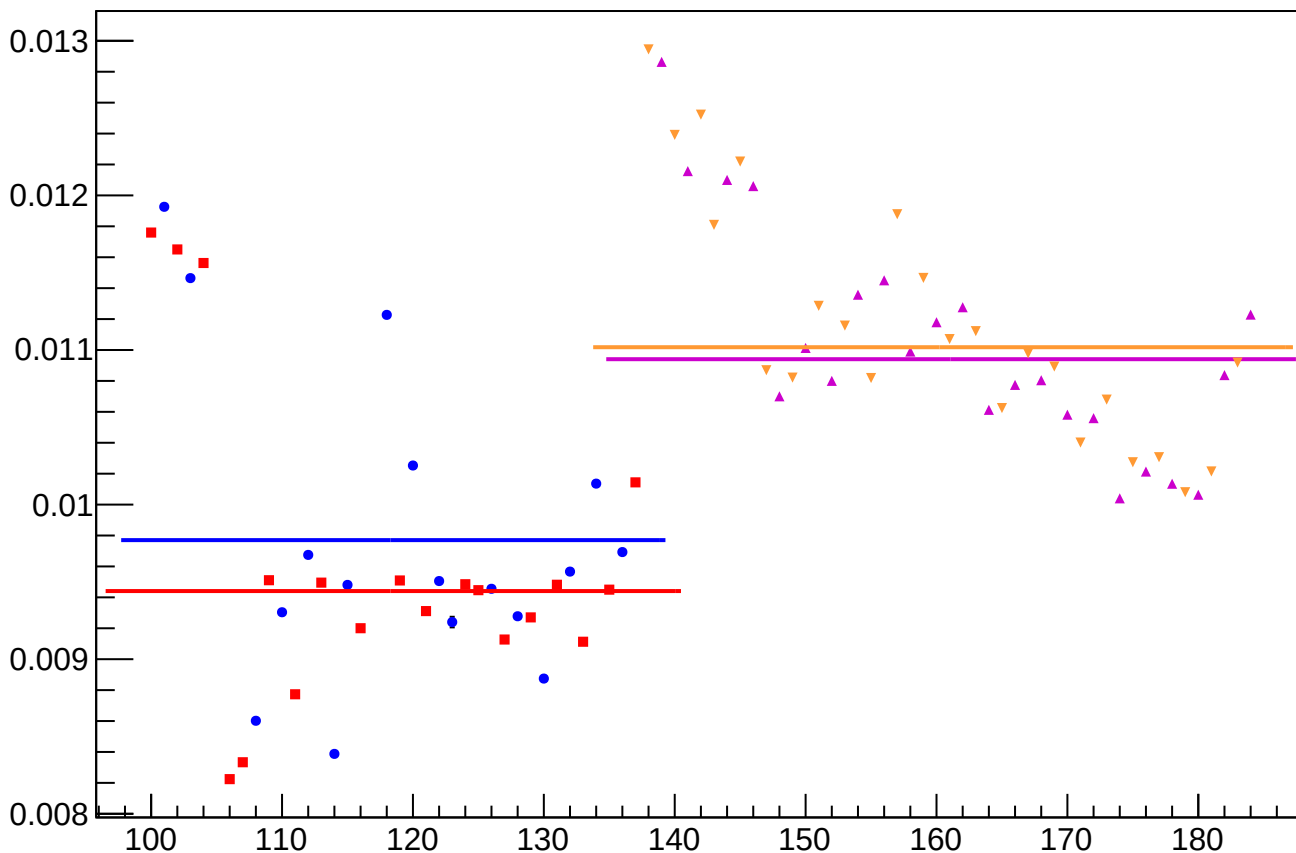
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: -0.052+/-0.000

χ^2/NDF : 28211850603.9/46

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116013.9/16

Left Out: 0.011+/-0.000 χ^2/NDF :139095.7/23

Right Out: 0.009+/-0.000 χ^2/NDF : 110651.6/18

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 268853.1/46

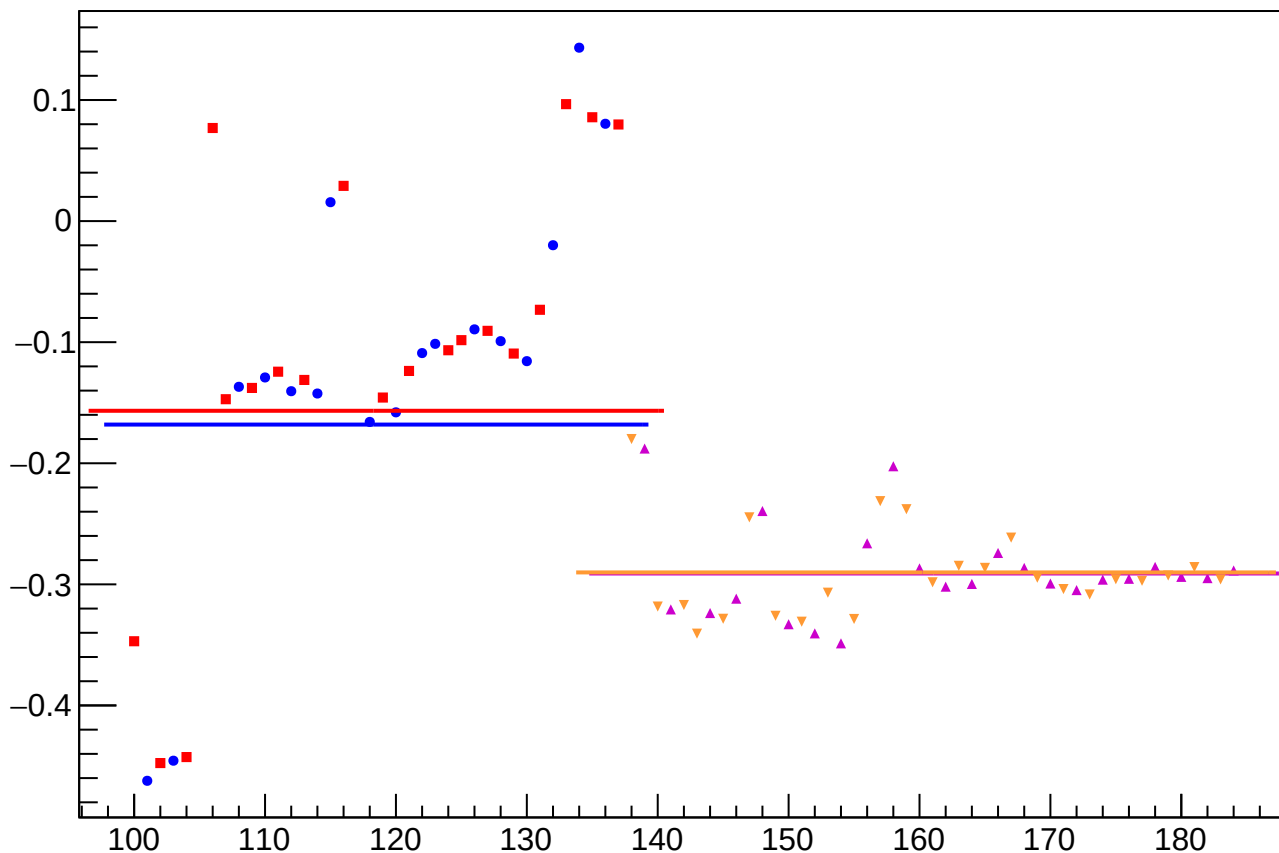
Right: 0.010+/-0.000 χ^2/NDF : 234461.4/35

In: 0.011+/-0.000 χ^2/NDF :368905.6/39

Out: 0.010+/-0.000 χ^2/NDF :498606.3/42

All: 0.011+/-0.000 χ^2/NDF : 869454.3/82

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000 χ^2/NDF : 12330177160.8/16

Left Out: -0.290+/-0.000 χ^2/NDF : 2862045992.1/23

Right Out: -0.157+/-0.000 χ^2/NDF : 11031837915.5/18

Left In: -0.291+/-0.000 χ^2/NDF : 3125402243.3/22

Left: -0.291+/-0.000 χ^2/NDF : 5988351923.6/46

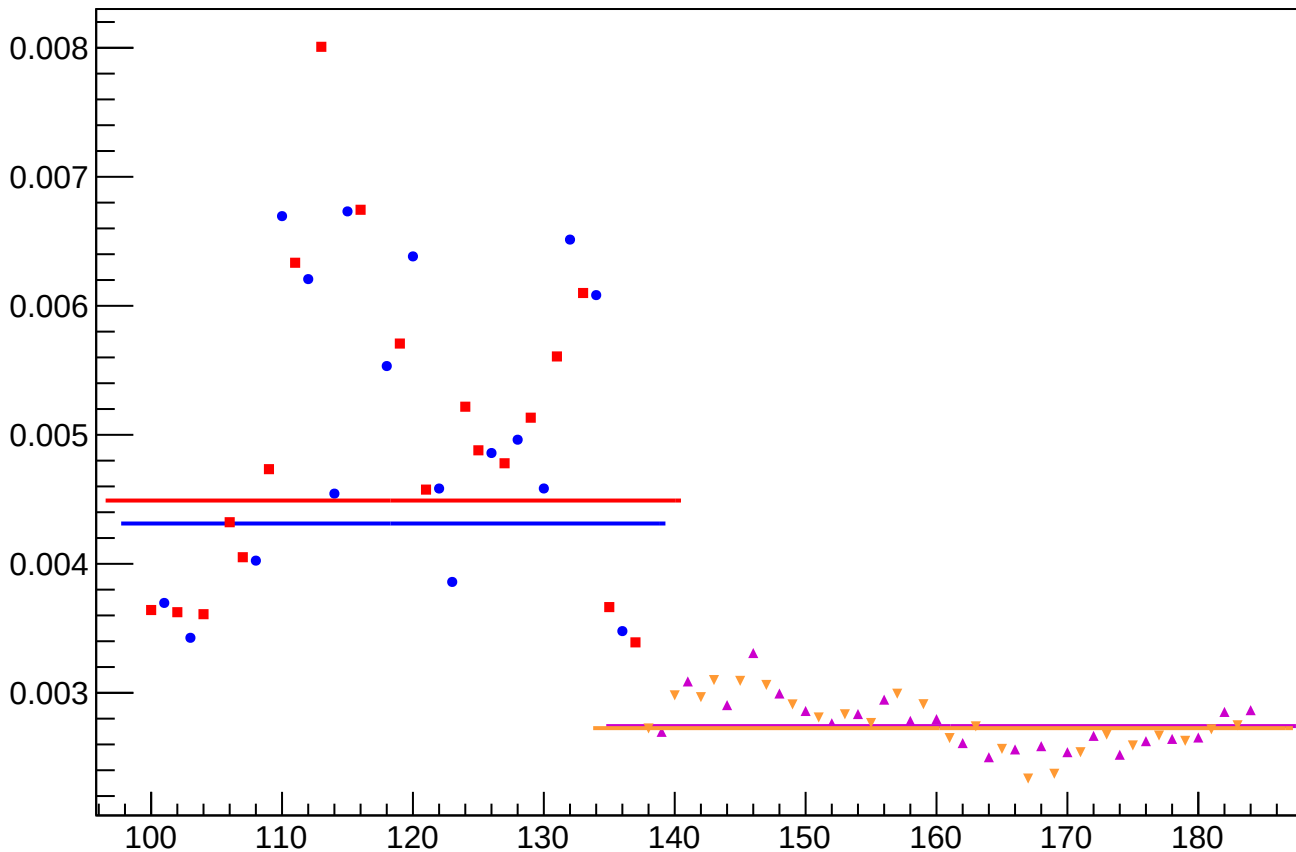
Right: -0.162+/-0.000 χ^2/NDF : 23382079796.3/35

In: -0.276+/-0.000 χ^2/NDF : 19577979631.0/39

Out: -0.275+/-0.000 χ^2/NDF : 18735956466.1/42

All: -0.275+/-0.000 χ^2/NDF : 38316076603.7/80

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 618348.9/16

Left Out: 0.003+/-0.000 χ^2/NDF :198905.8/23

Right Out: 0.004+/-0.000 χ^2/NDF : 639258.5/18

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 347263.0/46

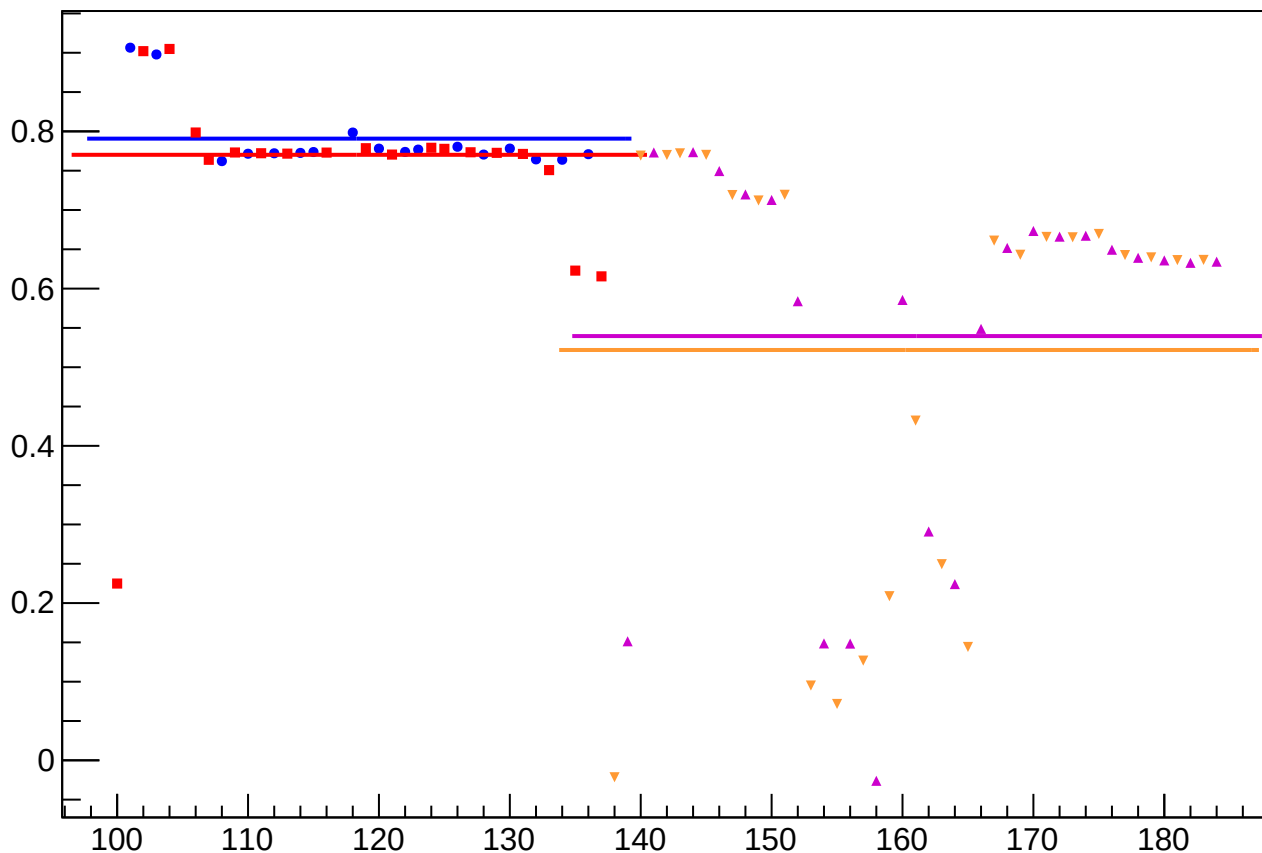
Right: 0.004+/-0.000 χ^2/NDF : 1267420.4/35

In: 0.003+/-0.000 χ^2/NDF :2109972.2/39

Out: 0.003+/-0.000 χ^2/NDF :2529929.7/42

All: 0.003+/-0.000 χ^2/NDF : 4639941.0/82

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791+/-0.000 χ^2/NDF : 106680493.2/16

Left Out: 0.522+/-0.000 χ^2/NDF : 9554660009.8/23

Right Out: 0.770+/-0.000 χ^2/NDF : 375430167.7/18

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.531+/-0.000 χ^2/NDF : 17438356935.6/46

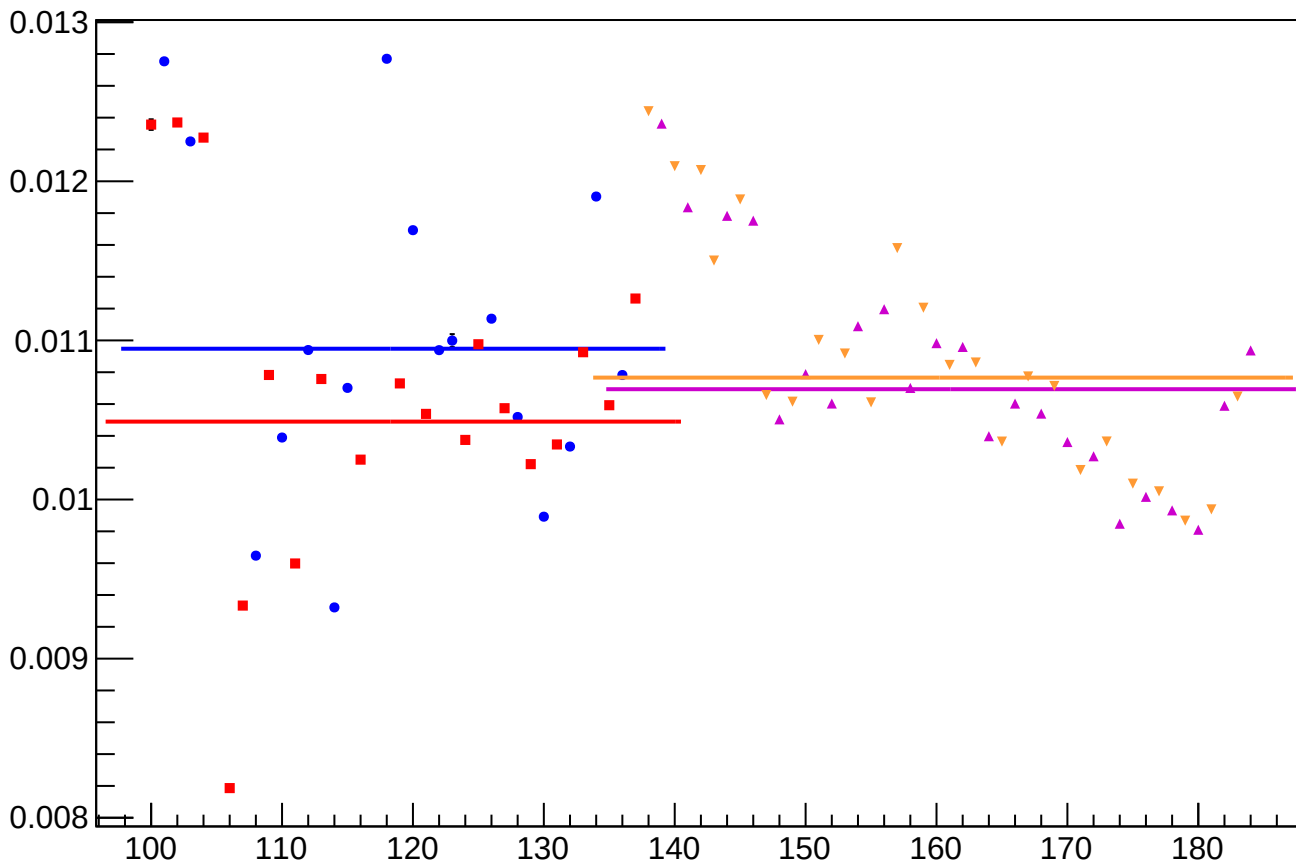
Right: 0.780+/-0.000 χ^2/NDF : 494308734.2/35

In: 0.607+/-0.000 χ^2/NDF : 10438982186.9/39

Out: 0.595+/-0.000 χ^2/NDF : 12647617677.8/42

All: 0.601+/-0.000 χ^2/NDF : 23101413610.6/80

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98019.2/16

Left Out: 0.011+/-0.000 χ^2/NDF :129451.1/23

Right Out: 0.010+/-0.000 χ^2/NDF : 119502.0/18

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 249508.9/46

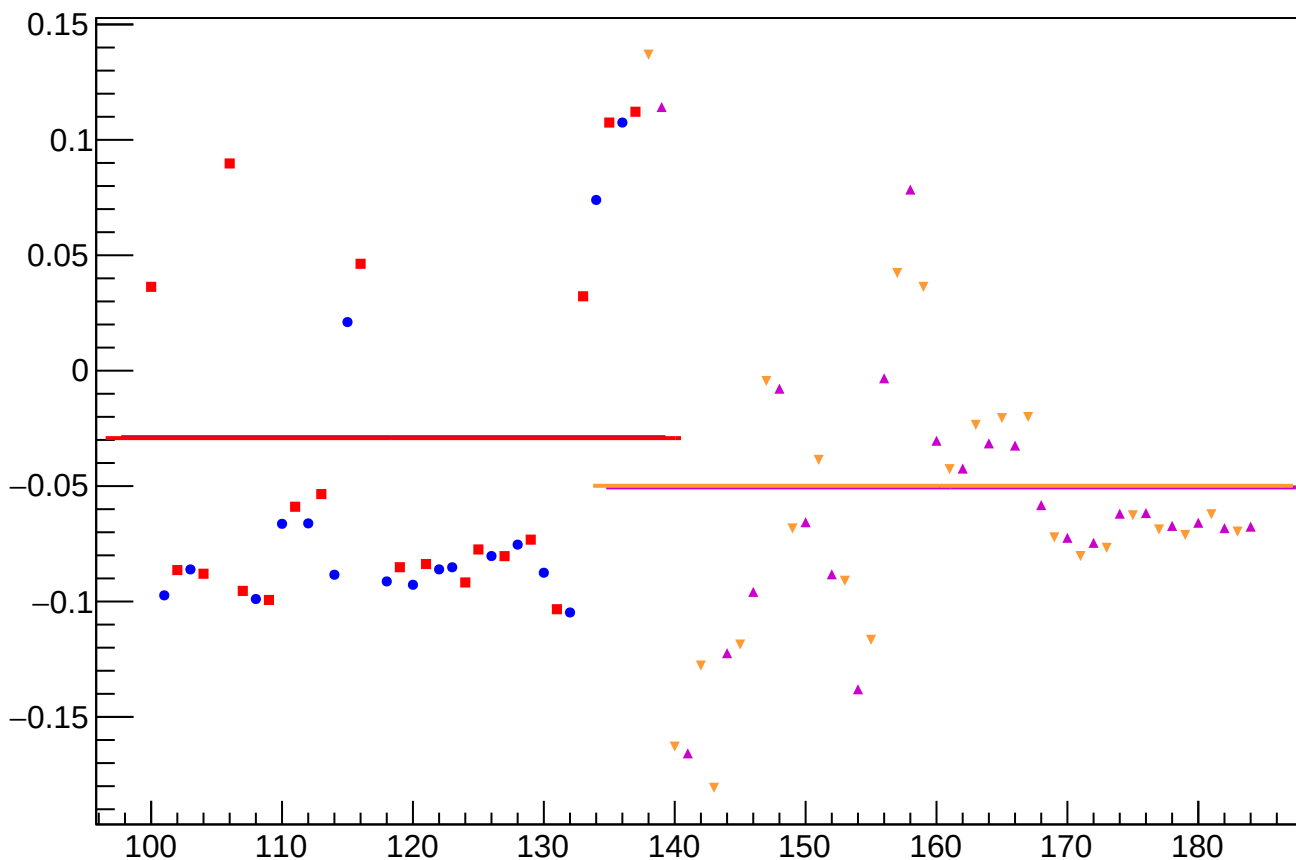
Right: 0.011+/-0.000 χ^2/NDF : 229626.3/35

In: 0.011+/-0.000 χ^2/NDF :222363.9/39

Out: 0.011+/-0.000 χ^2/NDF :255696.8/42

All: 0.011+/-0.000 χ^2/NDF : 479276.8/82

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000 χ^2/NDF : 2444911330.9/16

Left Out: -0.050+/-0.000 χ^2/NDF : 7209429734.6/23

Right Out: -0.029+/-0.000 χ^2/NDF : 2120368017.0/18

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13338680065.3/46

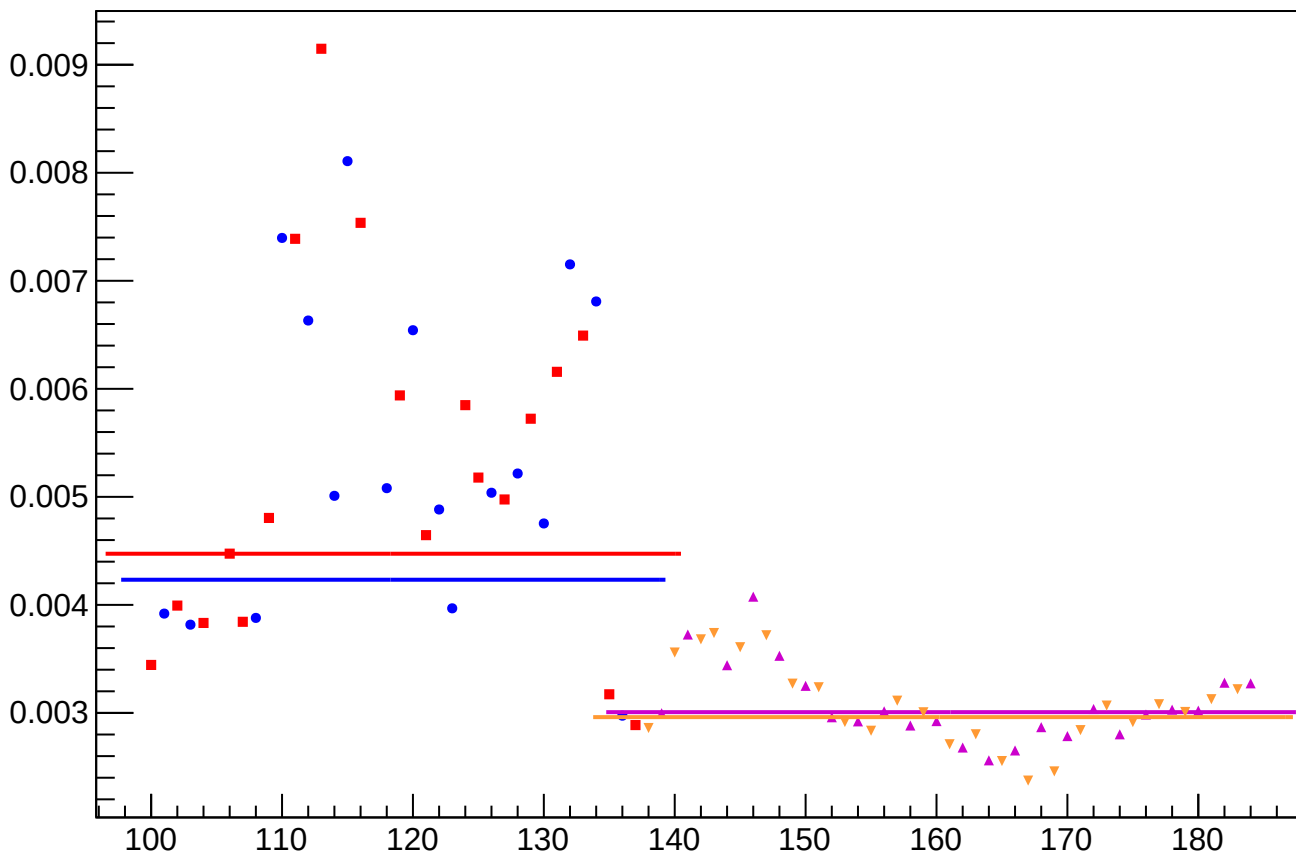
Right: -0.029+/-0.000 χ^2/NDF : 4565297950.1/35

In: -0.047+/-0.000 χ^2/NDF : 8696172072.2/39

Out: -0.047+/-0.000 χ^2/NDF : 9437574515.6/42

All: -0.047+/-0.000 χ^2/NDF : 18133832595.6/80

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 877339.5/16

Left Out: 0.003+/-0.000 χ^2/NDF : 480520.0/23

Right Out: 0.004+/-0.000 χ^2/NDF : 969342.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 813496.8/46

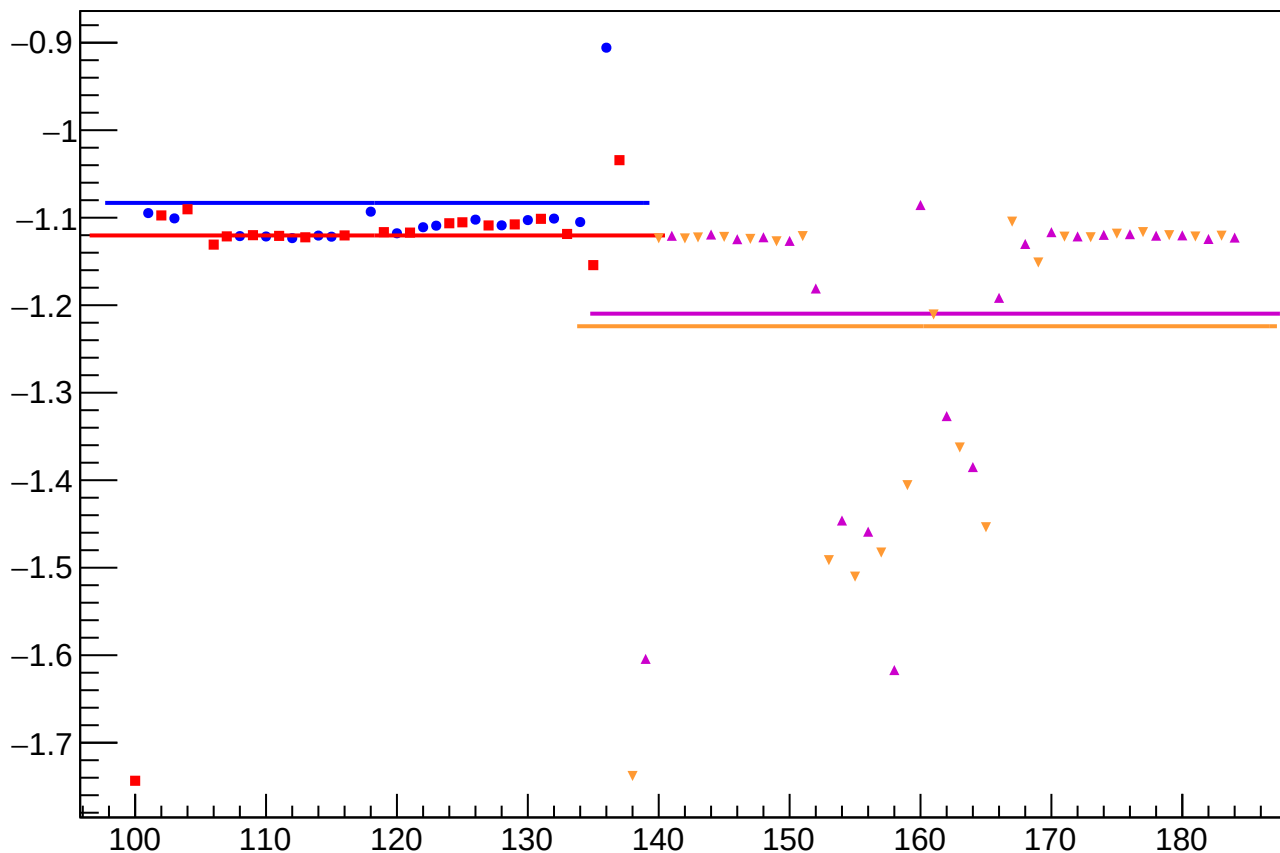
Right: 0.004+/-0.000 χ^2/NDF : 1863934.2/35

In: 0.003+/-0.000 χ^2/NDF : 1986967.7/39

Out: 0.003+/-0.000 χ^2/NDF : 2607394.3/42

All: 0.003+/-0.000 χ^2/NDF : 4595683.3/82

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083 ± 0.000 $\chi^2/\text{NDF}: 202851874.4/16$

Left Out: -1.224 ± 0.000 $\chi^2/\text{NDF}: 5242993264.1/23$

Right Out: -1.120 ± 0.000 $\chi^2/\text{NDF}: 220508408.4/18$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.217 ± 0.000 $\chi^2/\text{NDF}: 9764298222.2/46$

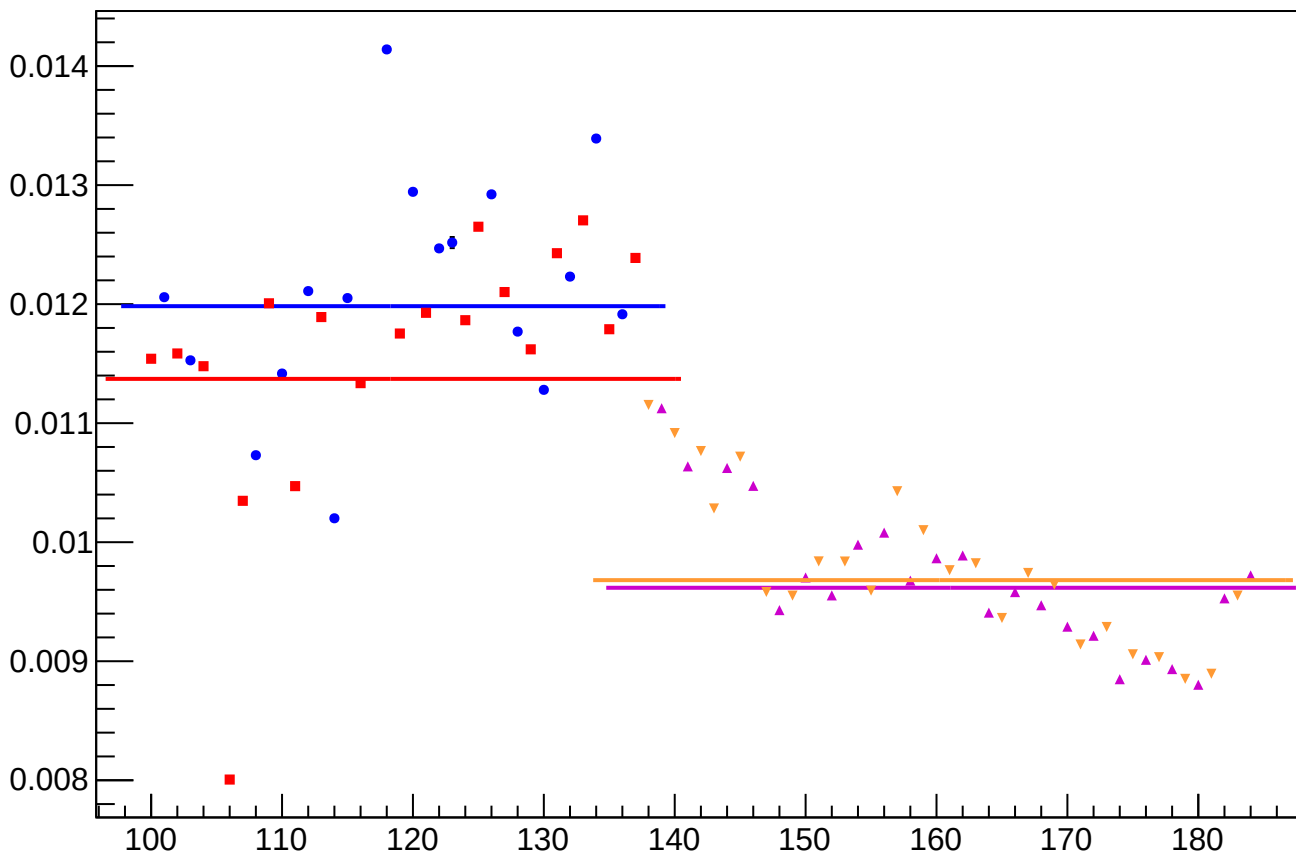
Right: -1.103 ± 0.000 $\chi^2/\text{NDF}: 456843121.6/35$

In: -1.185 ± 0.000 $\chi^2/\text{NDF}: 5279660530.7/39$

Out: -1.201 ± 0.000 $\chi^2/\text{NDF}: 5905977463.6/42$

All: -1.193 ± 0.000 $\chi^2/\text{NDF}: 11217054022.3/80$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 58835.2/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:132846.4/23

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 152861.8/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:119823.1/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 253425.4/46

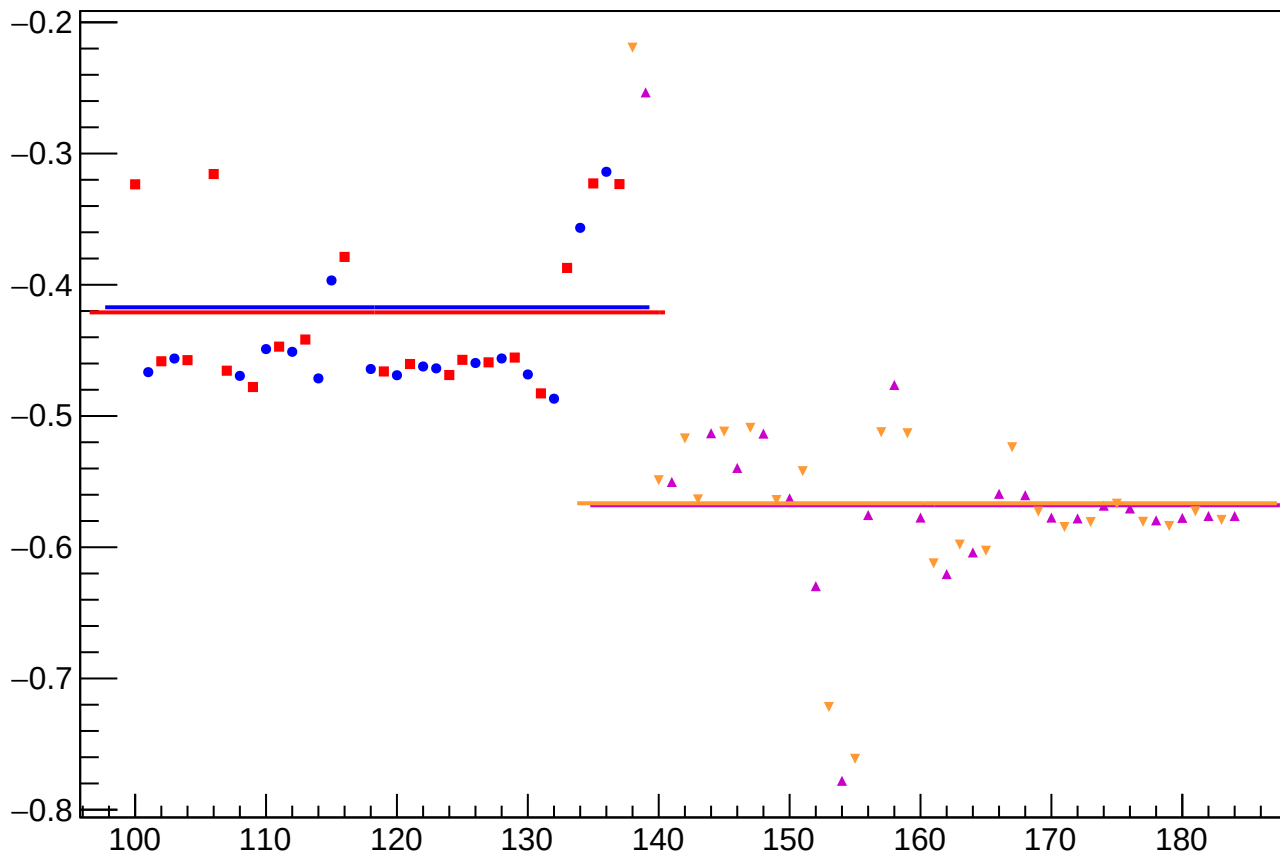
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 229751.2/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:579900.8/39

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:520714.3/42

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 1100820.3/82

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2038520950.9/16

Left Out: -0.566+/-0.000 χ^2/NDF : 13366072572.9/23

Right Out: -0.421+/-0.000 χ^2/NDF : 1654624022.3/18

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23826811261.4/46

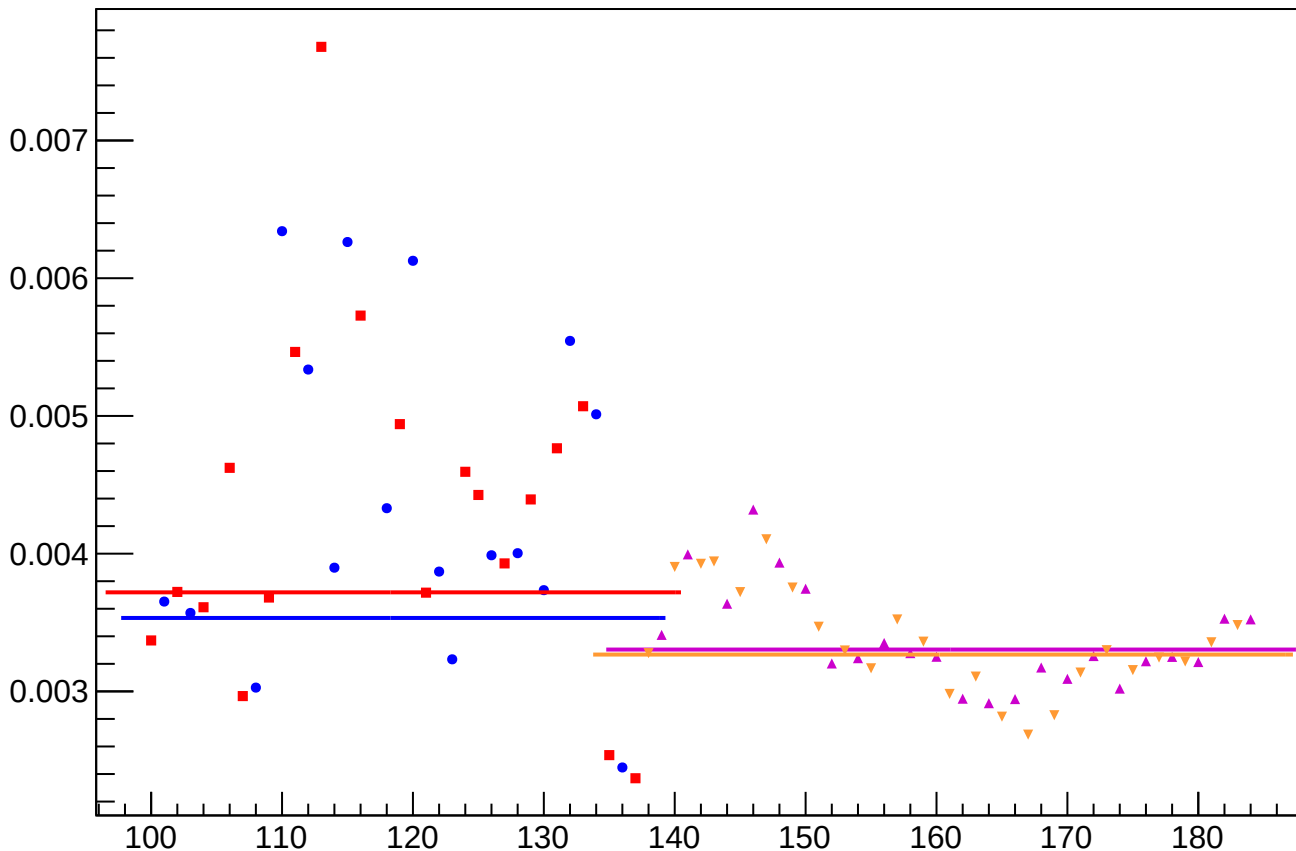
Right: -0.419+/-0.000 χ^2/NDF : 3696346160.6/35

In: -0.534+/-0.000 χ^2/NDF : 20132934095.6/39

Out: -0.536+/-0.000 χ^2/NDF : 22076446390.0/42

All: -0.535+/-0.000 χ^2/NDF : 42213217440.1/80

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 831496.7/16

Left Out: 0.003+/-0.000 χ^2/NDF :380632.0/23

Right Out: 0.004+/-0.000 χ^2/NDF : 884778.0/18

Left In: 0.003+/-0.000 χ^2/NDF :286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 668719.0/46

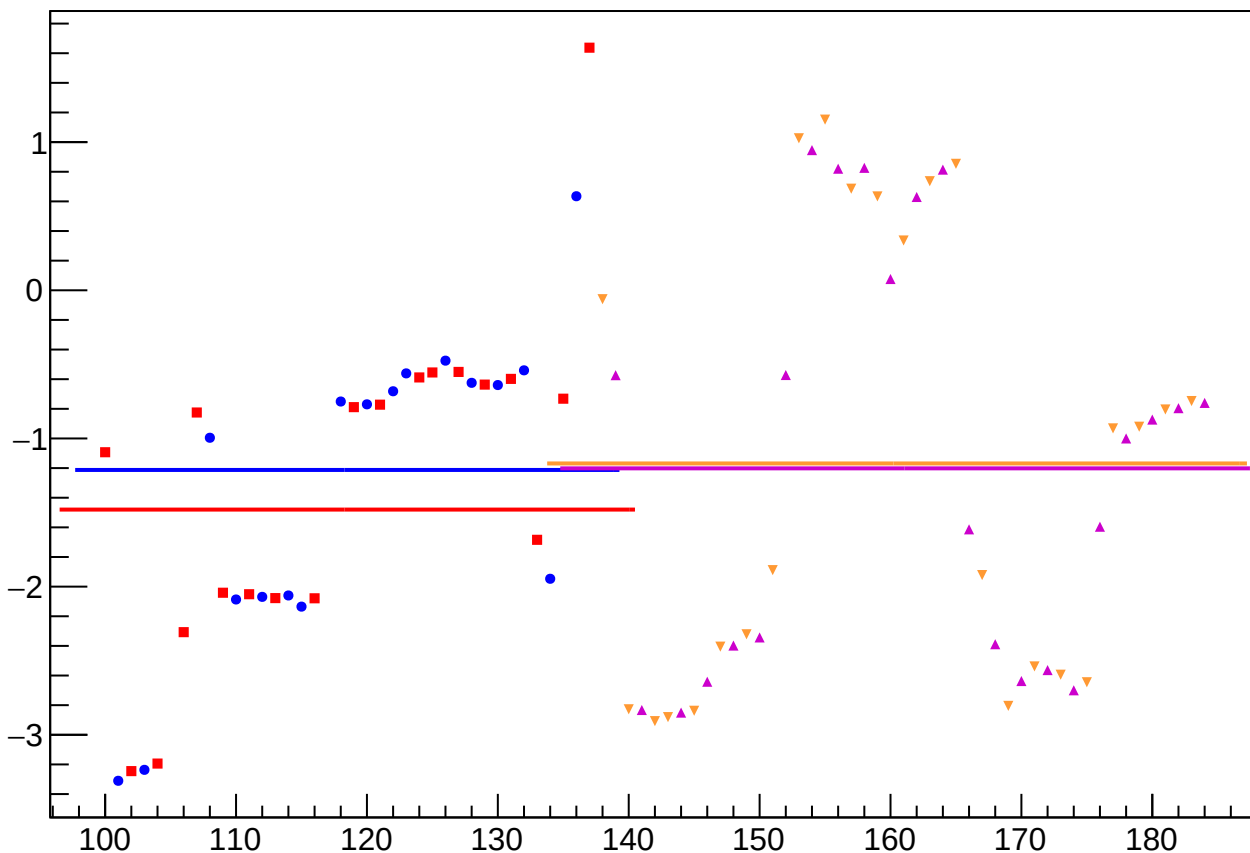
Right: 0.004+/-0.000 χ^2/NDF : 1731087.2/35

In: 0.003+/-0.000 χ^2/NDF :1152887.0/39

Out: 0.003+/-0.000 χ^2/NDF :1401528.3/42

All: 0.003+/-0.000 χ^2/NDF : 2554511.3/82

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.213 ± 0.000 $\chi^2/\text{NDF}: 1991015908.7/16$

Left Out: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6812225909.2/23$

Right Out: -1.480 ± 0.000 $\chi^2/\text{NDF}: 1576057924.8/18$

Left In: -1.202 ± 0.000 $\chi^2/\text{NDF}: 5606782515.9/22$

Left: -1.185 ± 0.000 $\chi^2/\text{NDF}: 12420808923.6/46$

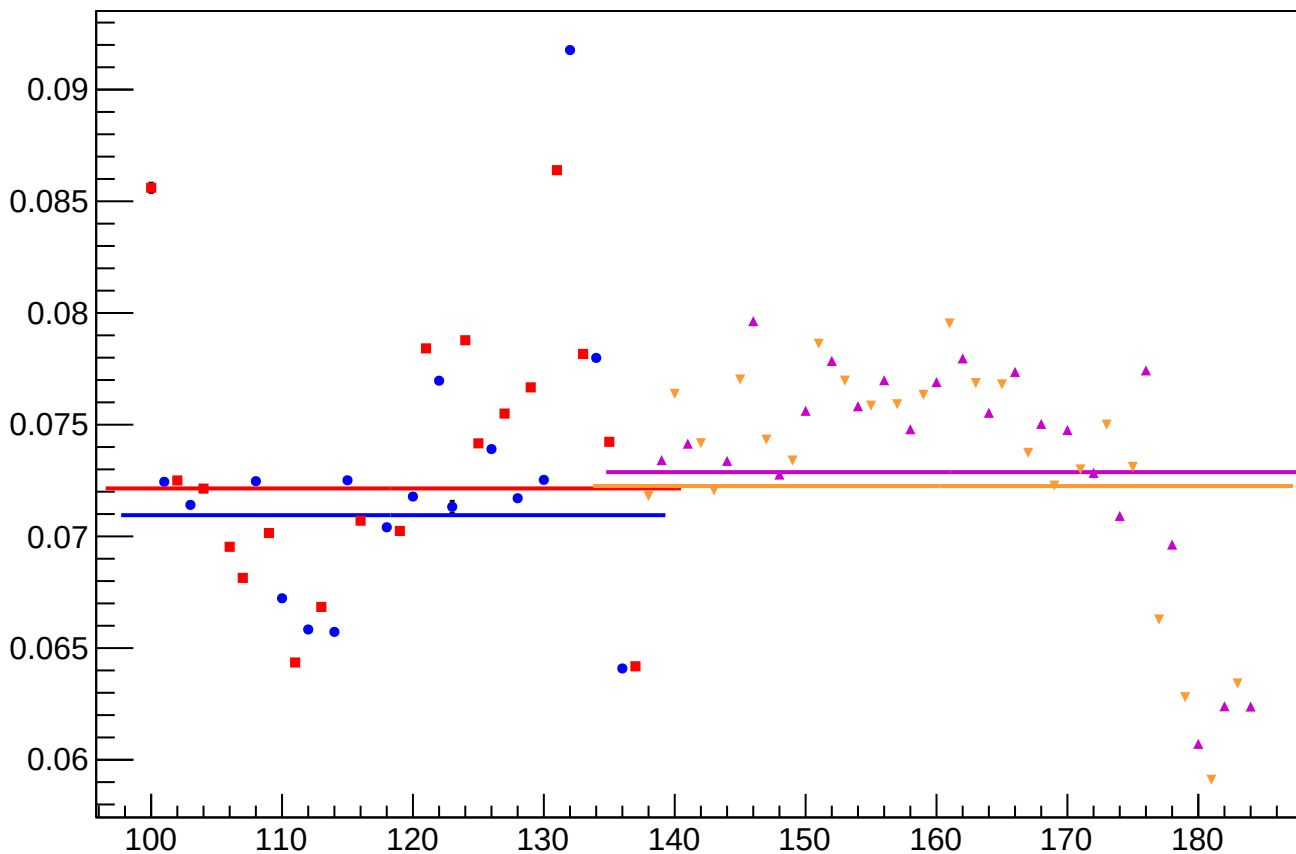
Right: -1.348 ± 0.000 $\chi^2/\text{NDF}: 3614167453.1/35$

In: -1.205 ± 0.000 $\chi^2/\text{NDF}: 7597905579.7/39$

Out: -1.257 ± 0.000 $\chi^2/\text{NDF}: 8480993518.9/42$

All: -1.231 ± 0.000 $\chi^2/\text{NDF}: 16085047056.2/80$

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77148.7/16

Left Out: 0.072+/-0.000 χ^2/NDF : 219303.8/23

Right Out: 0.072+/-0.000 χ^2/NDF : 69021.6/18

Left In: 0.073+/-0.000 χ^2/NDF : 183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 404080.0/46

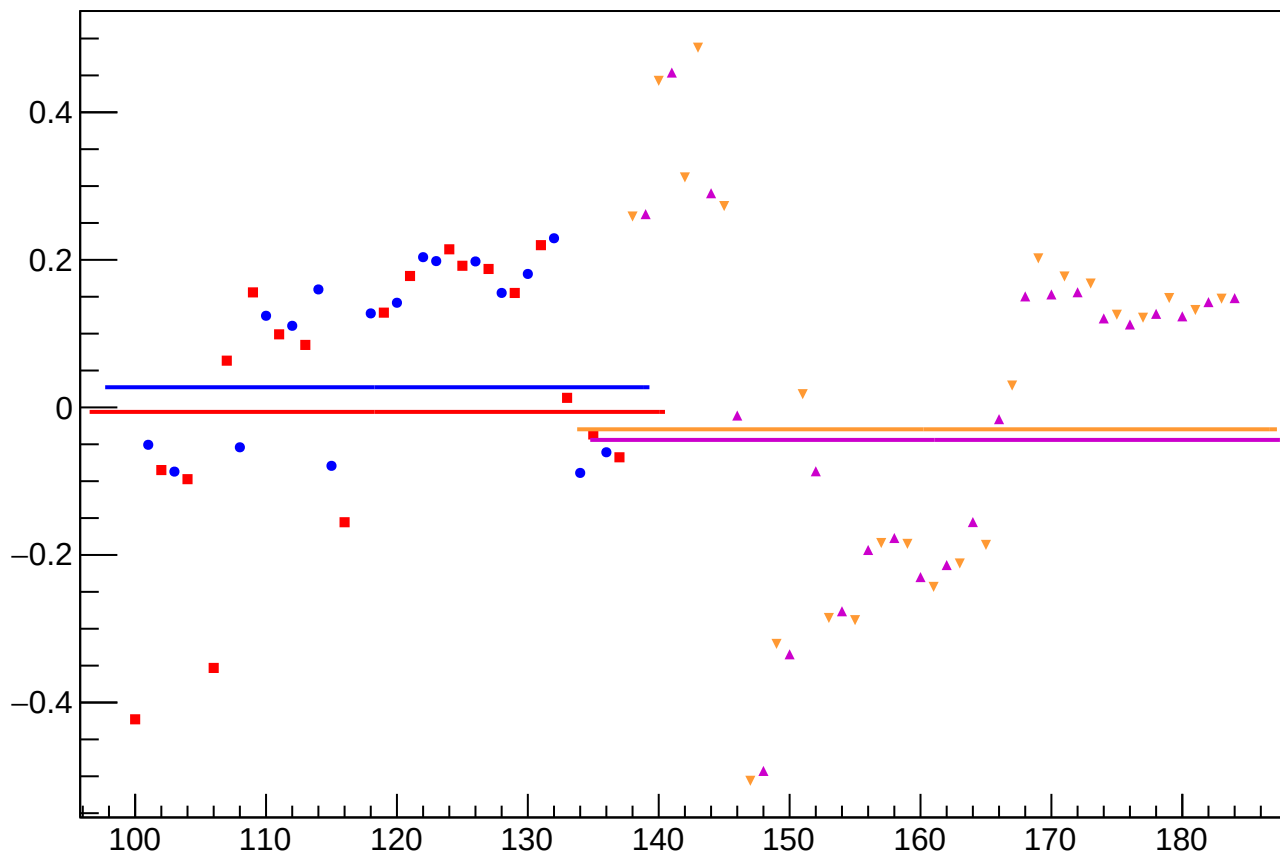
Right: 0.072+/-0.000 χ^2/NDF : 148058.9/35

In: 0.072+/-0.000 χ^2/NDF : 267516.7/39

Out: 0.072+/-0.000 χ^2/NDF : 288347.4/42

All: 0.072+/-0.000 χ^2/NDF : 555905.3/82

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562065478.3/16

Left: -0.037+/-0.000

χ^2/NDF : 35866691198.6/46

Left Out: -0.030+/-0.000

χ^2/NDF : 20111012576.0/23

Right: 0.011+/-0.000

χ^2/NDF : 1791947690.0/35

Right Out: -0.006+/-0.000

χ^2/NDF : 1205303430.4/18

In: -0.036+/-0.000

χ^2/NDF : 16478547890.4/39

Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

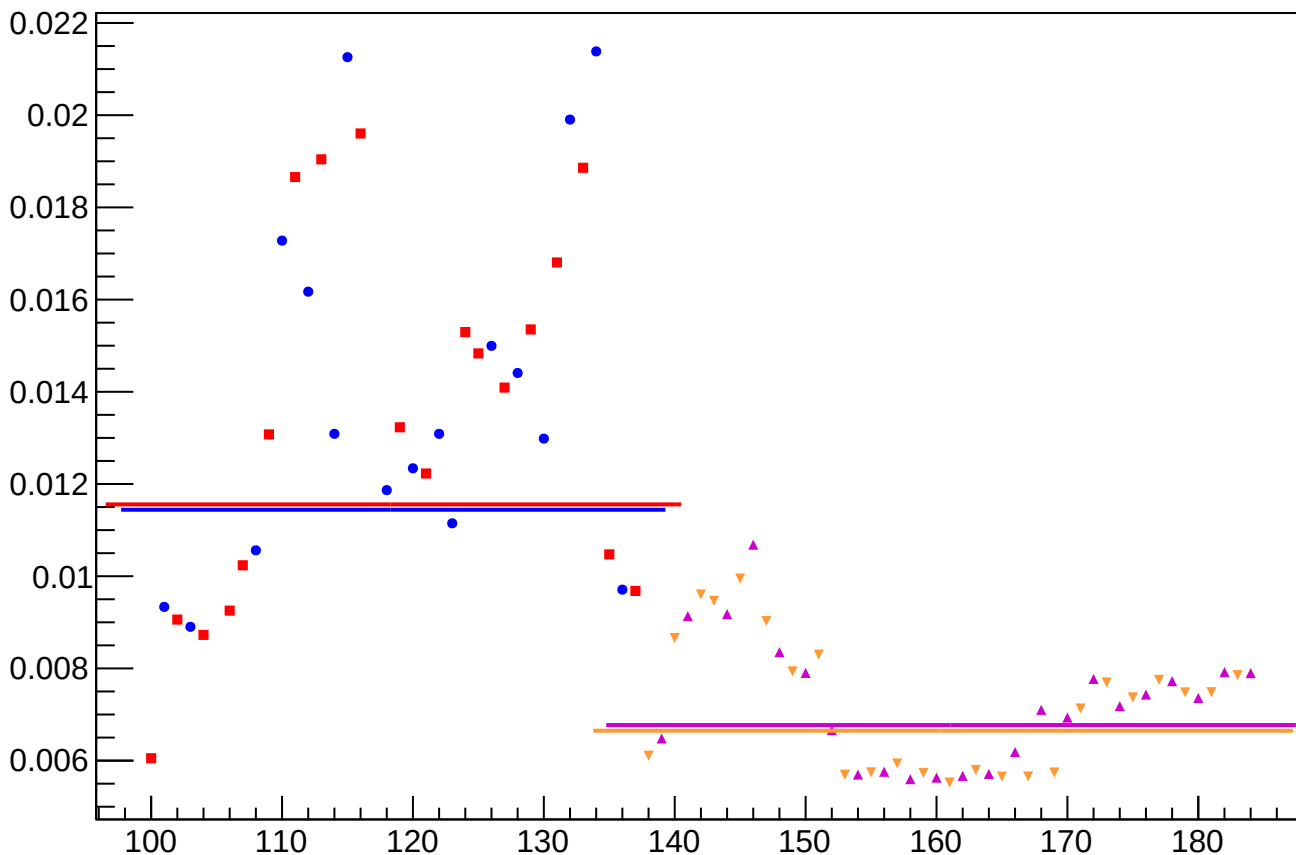
Out: -0.027+/-0.000

χ^2/NDF : 21338360552.9/42

All: -0.031+/-0.000

χ^2/NDF : 37832713096.5/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 673738.1/16

Left Out: 0.007+/-0.000 χ^2/NDF :1111442.2/23

Right Out: 0.012+/-0.000 χ^2/NDF : 979298.5/18

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2050903.9/46

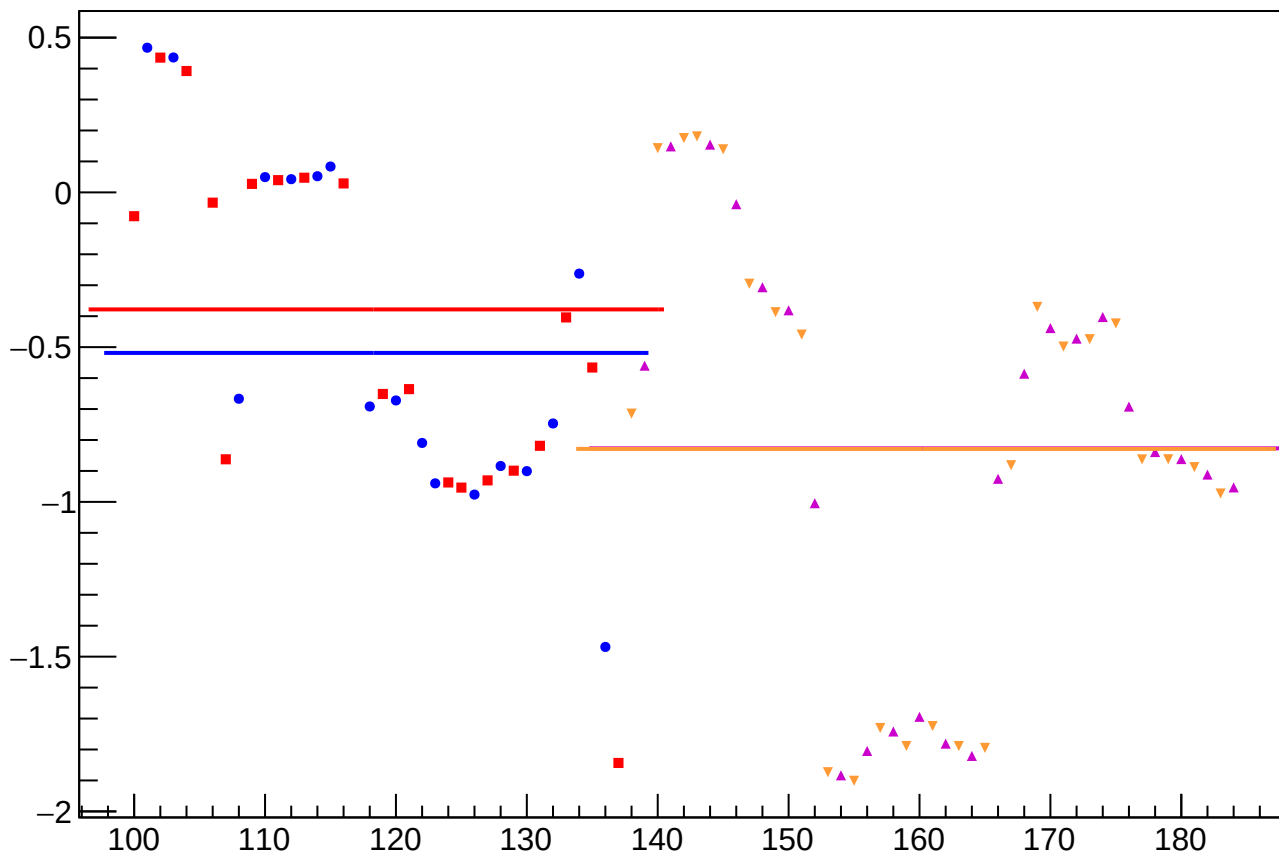
Right: 0.012+/-0.000 χ^2/NDF : 1653627.3/35

In: 0.007+/-0.000 χ^2/NDF :3302327.5/39

Out: 0.007+/-0.000 χ^2/NDF :4000602.3/42

All: 0.007+/-0.000 χ^2/NDF : 7309436.5/82

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519 ± 0.000 χ^2/NDF : 338707442.0/16

Left Out: -0.829 ± 0.000 χ^2/NDF : 1085843983.9/23

Right Out: -0.378 ± 0.000 χ^2/NDF : 267921889.8/18

Left In: -0.827 ± 0.000 χ^2/NDF : 921651117.3/22

Left: -0.828 ± 0.000 χ^2/NDF : 2007499060.1/46

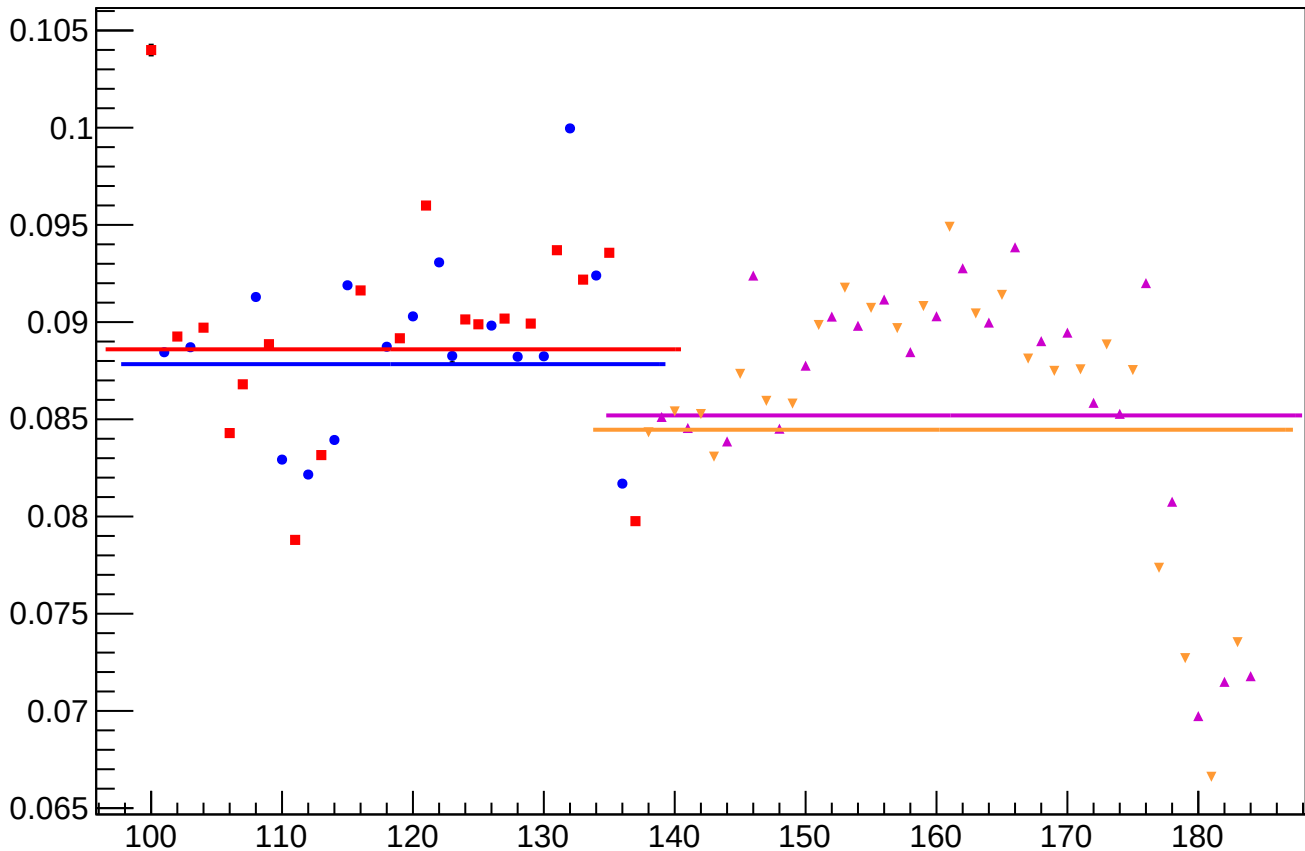
Right: -0.447 ± 0.000 χ^2/NDF : 615340967.5/35

In: -0.744 ± 0.000 χ^2/NDF : 1320411453.2/39

Out: -0.709 ± 0.000 χ^2/NDF : 1488215069.1/42

All: -0.726 ± 0.000 χ^2/NDF : 2810643837.1/8

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2/NDF : 34872.1/16

Left Out: 0.084 $\pm$ 0.000 χ^2/NDF :284264.4/23

Right Out: 0.089 $\pm$ 0.000 χ^2/NDF : 38932.4/18

Left In: 0.085 $\pm$ 0.000 χ^2/NDF :238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2/NDF : 523892.6/46

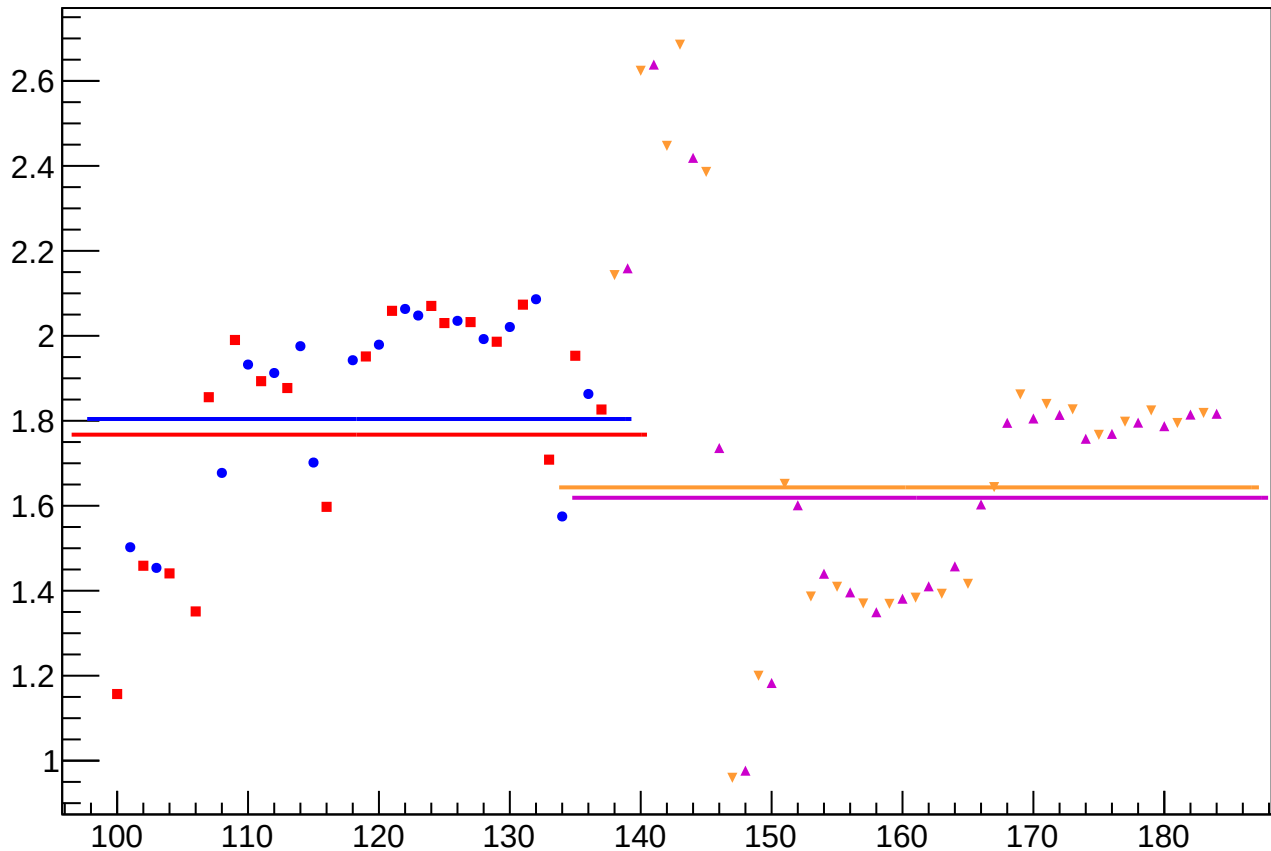
Right: 0.088 $\pm$ 0.000 χ^2/NDF : 74317.5/35

In: 0.086 $\pm$ 0.000 χ^2/NDF :281979.6/39

Out: 0.086 $\pm$ 0.000 χ^2/NDF :345852.0/42

All: 0.086 $\pm$ 0.000 χ^2/NDF : 628230.9/82

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804 $\pm$ 0.000 χ^2 /NDF: 1156038618.5/16

Left Out: 1.643 $\pm$ 0.000 χ^2 /NDF: 26155585535.1/23

Right Out: 1.767 $\pm$ 0.000 χ^2 /NDF: 1715728859.6/18

Left In: 1.619 $\pm$ 0.000 χ^2 /NDF: 20618198188.1/22

Left: 1.631 $\pm$ 0.000 χ^2 /NDF: 46833024827.6/46

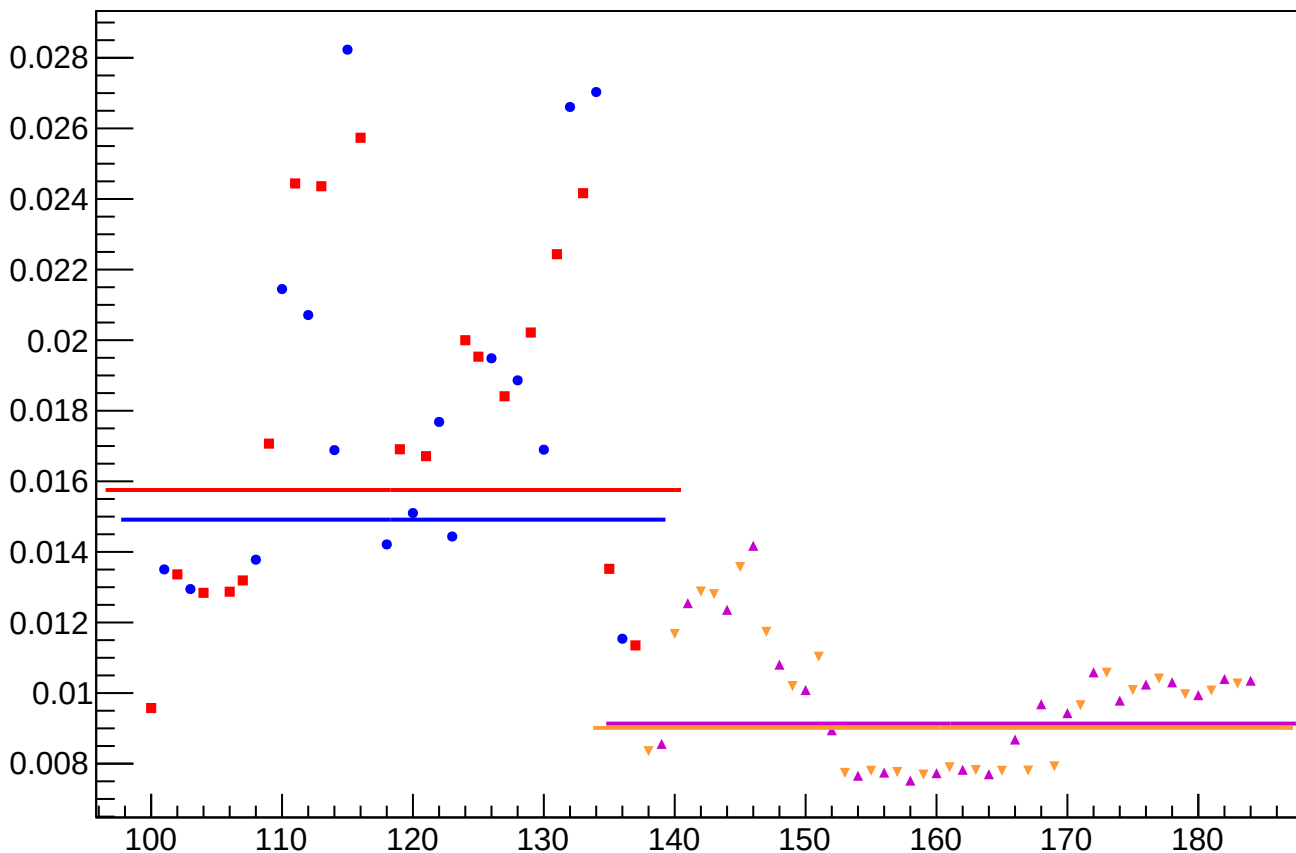
Right: 1.786 $\pm$ 0.000 χ^2 /NDF: 2888725719.4/35

In: 1.641 $\pm$ 0.000 χ^2 /NDF: 22555231746.9/39

Out: 1.656 $\pm$ 0.000 χ^2 /NDF: 28205562039.9/42

All: 1.649 $\pm$ 0.000 χ^2 /NDF: 50787823066.7/80

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 638037.3/16

Left Out: 0.009+/-0.000 χ^2/NDF :1011738.9/23

Right Out: 0.016+/-0.000 χ^2/NDF : 770357.5/18

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1892994.7/46

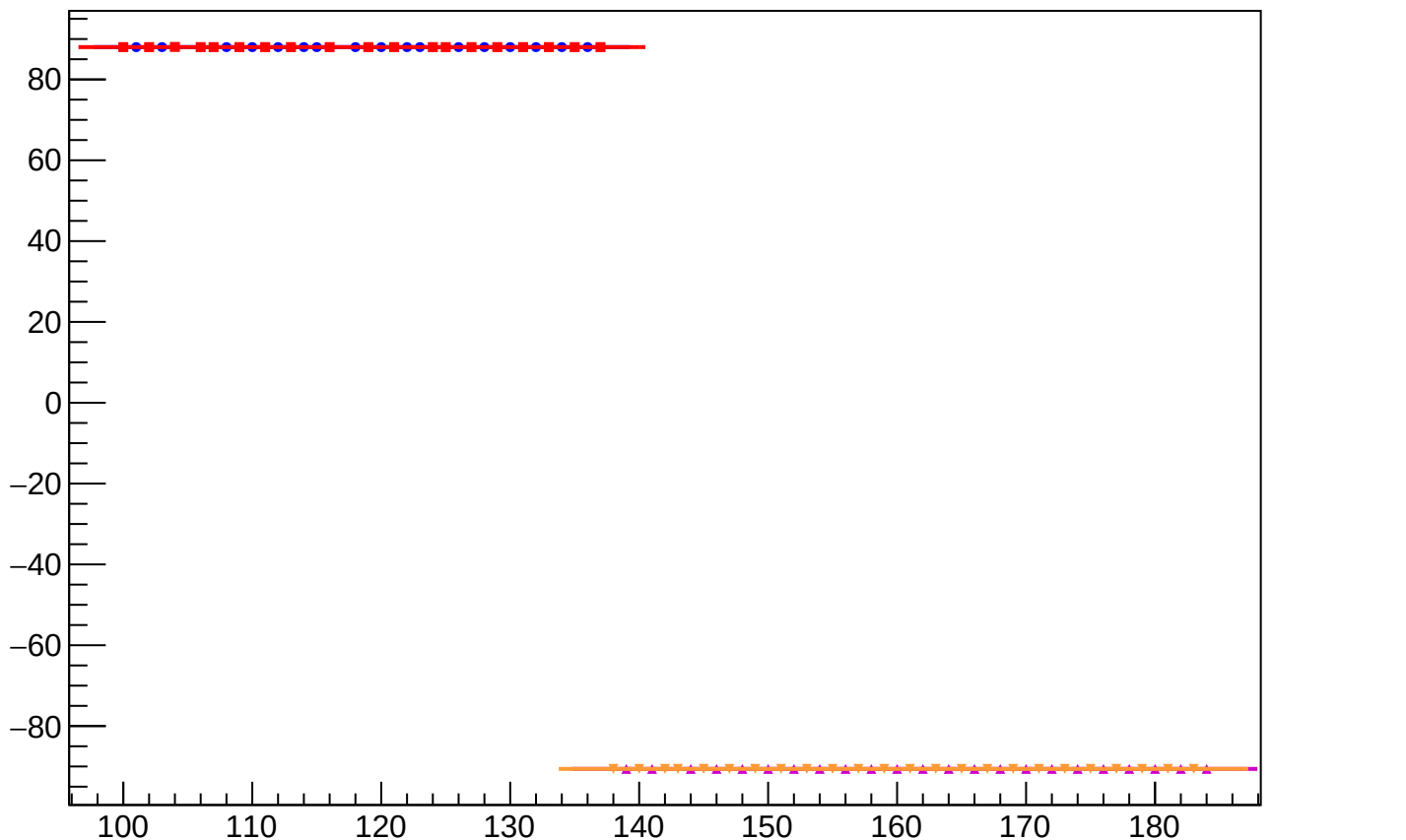
Right: 0.015+/-0.000 χ^2/NDF : 1426092.9/35

In: 0.010+/-0.000 χ^2/NDF :3033983.4/39

Out: 0.010+/-0.000 χ^2/NDF :3754217.6/42

All: 0.010+/-0.000 χ^2/NDF : 6790201.0/82

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1547328.6/16

Left Out: -90.599+/-0.000 χ^2/NDF : 8717910.1/23

Right Out: 88.004+/-0.000 χ^2/NDF : 77529520773816998986447323136.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 12464254.7/46

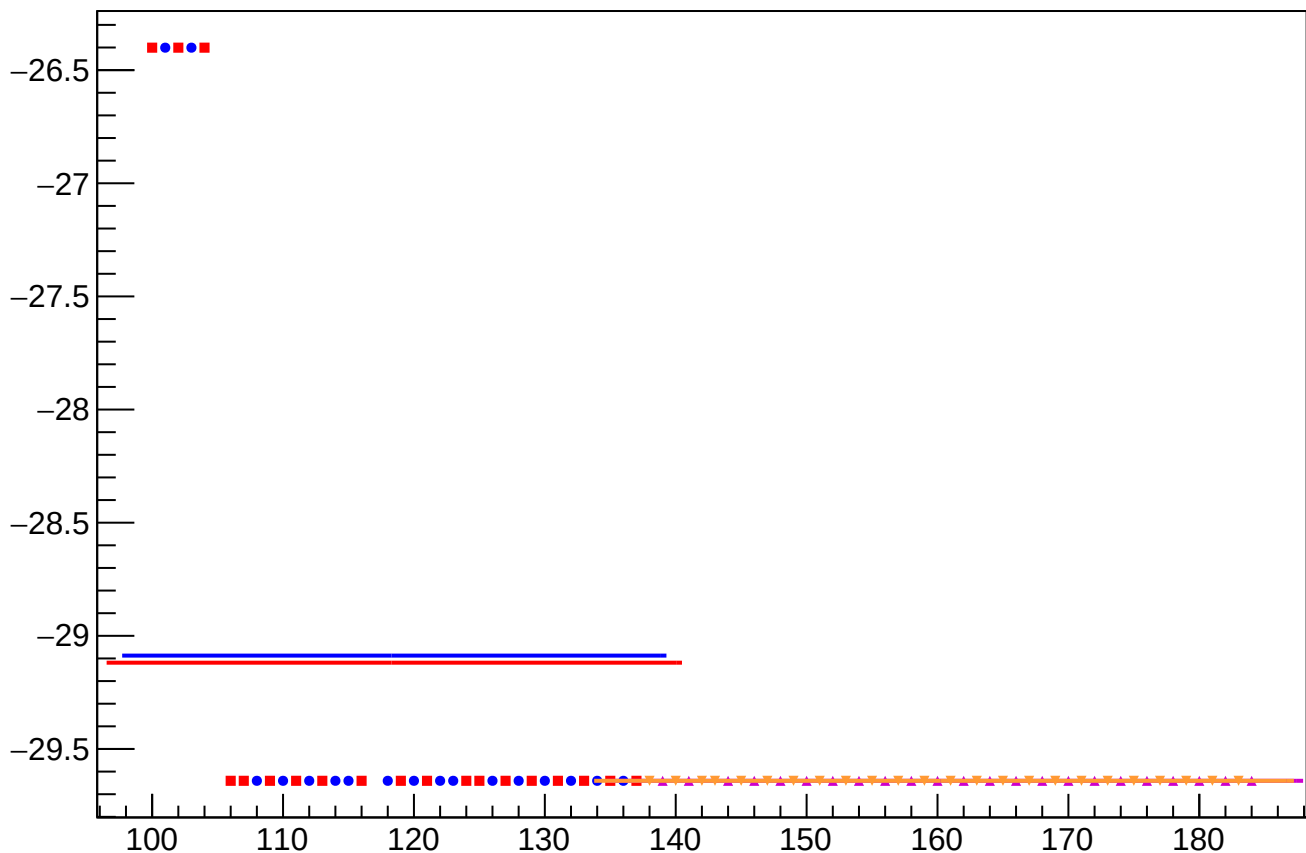
Right: 88.002+/-0.000 χ^2/NDF : 8042394504606349

In: -40.976+/-0.000 χ^2/NDF : 15917377035207056

Out: -40.872+/-0.000 χ^2/NDF : 1657266914388391

All: -40.923+/-0.000 χ^2/NDF : 324900598743

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.087+/-0.000

χ^2/NDF : 1027184842836480355028877627621376.0/16

Left Out: -29.641+/-0.000

χ^2/NDF : 249431.5/23

Right Out: -29.119+/-0.000

χ^2/NDF : 1021533120000008474668992382894080.0/18

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 583517.3/46

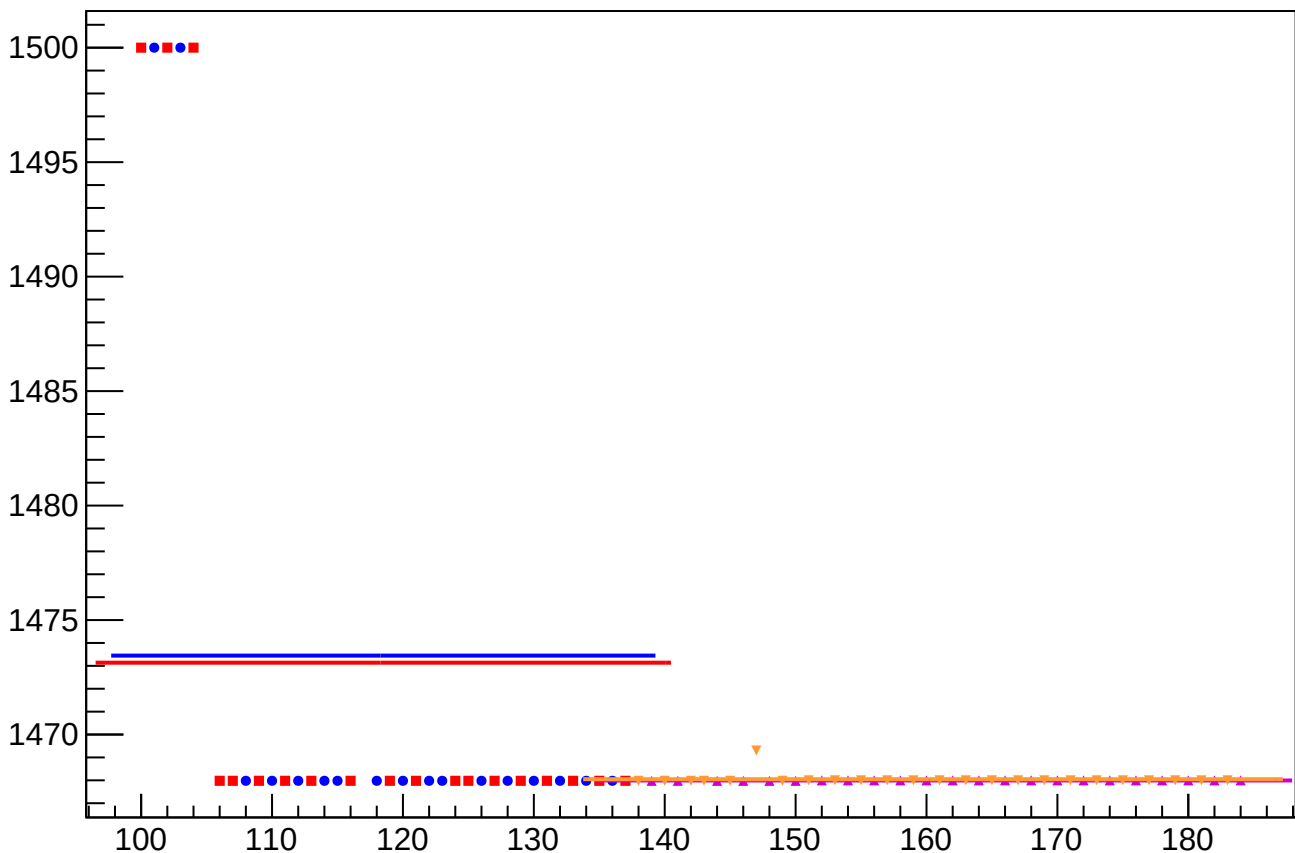
Right: -29.103+/-0.000 χ^2/NDF : 204906307356486

In: -29.487+/-0.000 χ^2/NDF : 11799437471652456

Out: -29.495+/-0.000 χ^2/NDF : 1163098357308559

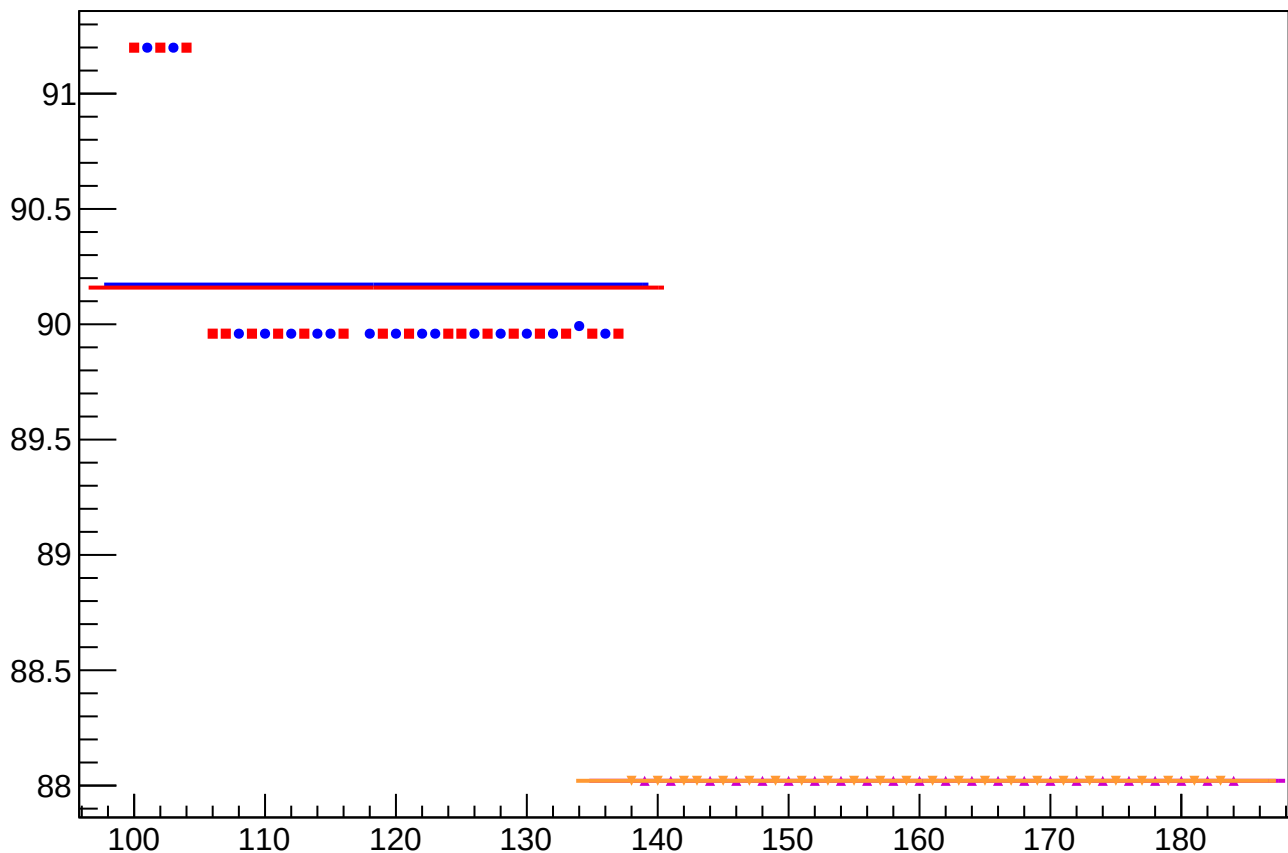
All: -29.491+/-0.000 χ^2/NDF : 234313136558

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.447+/-0.000	χ^2/NDF : 100331979974804513534478923851628544.0/16	Left: 1468.022+/-0.000	χ^2/NDF : 130773862973508
Left Out: 1468.049+/-0.000	χ^2/NDF : 127828878325121422324271429976064.0/23	Right: 1473.290+/-0.000	χ^2/NDF : 20014562782713
Right Out: 1473.138+/-0.000	χ^2/NDF : 99779938590622337721401930749575168.0/18	In: 1469.509+/-0.000	χ^2/NDF : 1151745068139507
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1469.466+/-0.000	χ^2/NDF : 113364071919816
	All: 1469.487+/-0.000	χ^2/NDF : 22854092513	

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.172+/-0.000

χ^2/NDF : 150181697791974119042789817712640.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 5820758.5/23

Right Out: 90.159+/-0.000

χ^2/NDF : 149625564444474590335066871693312.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

Left: 88.021+/-0.000 χ^2/NDF : 12038345.6/46

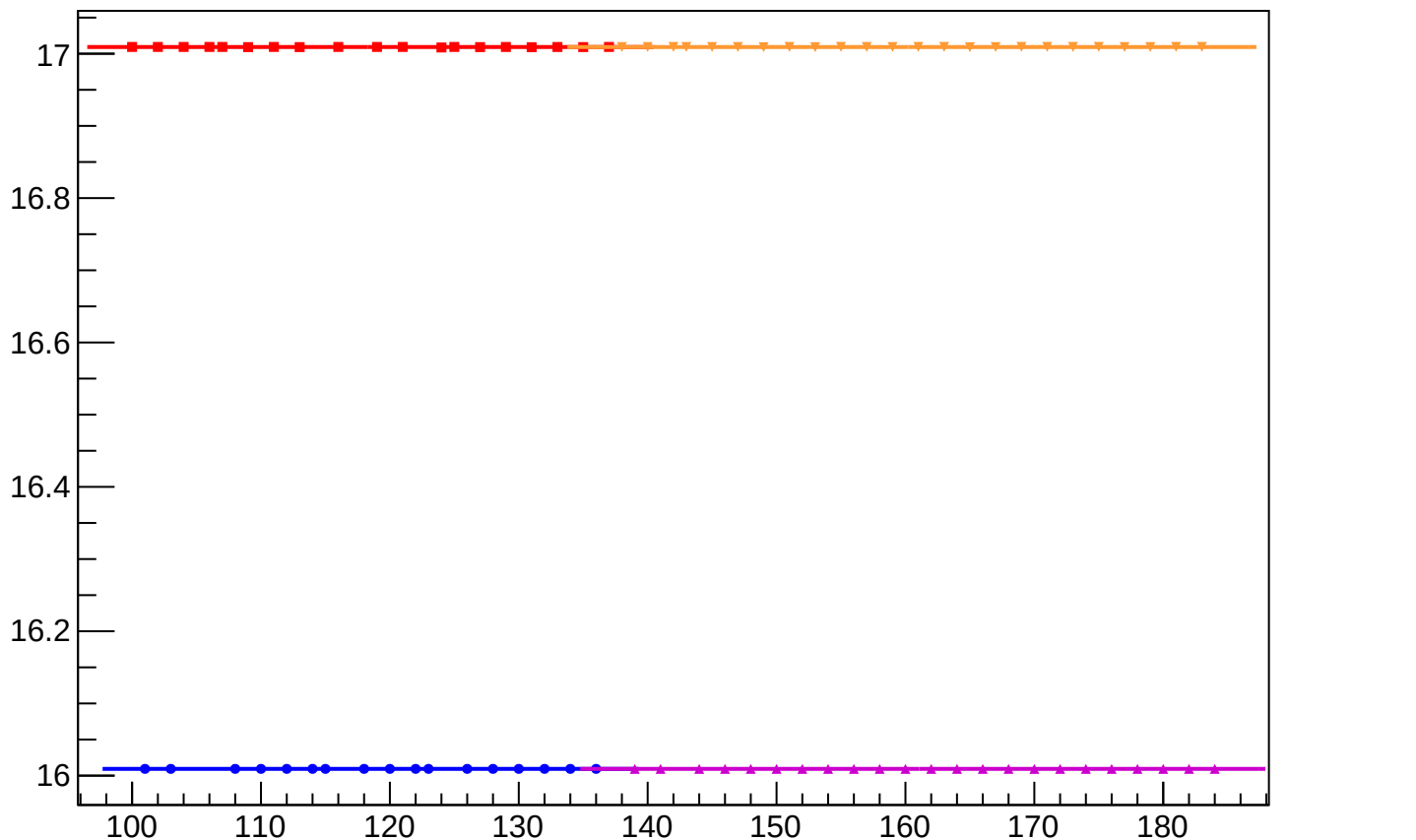
Right: 90.165+/-0.000 χ^2/NDF : 2998666474784590

In: 88.618+/-0.000 χ^2/NDF : 245974793241878032

Out: 88.616+/-0.000 χ^2/NDF : 25252727443015681

All: 88.617+/-0.000 χ^2/NDF : 4985027803145

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 38900.3/16

Left Out: 17.009+/-0.000 χ^2/NDF : 25767448372447706957742080.0/23

Right Out: 17.009+/-0.000 χ^2/NDF : 12507759350541157226512384.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 127920993667935400624128.0/22

Left: 16.519+/-0.000 χ^2/NDF : 84927113614011099

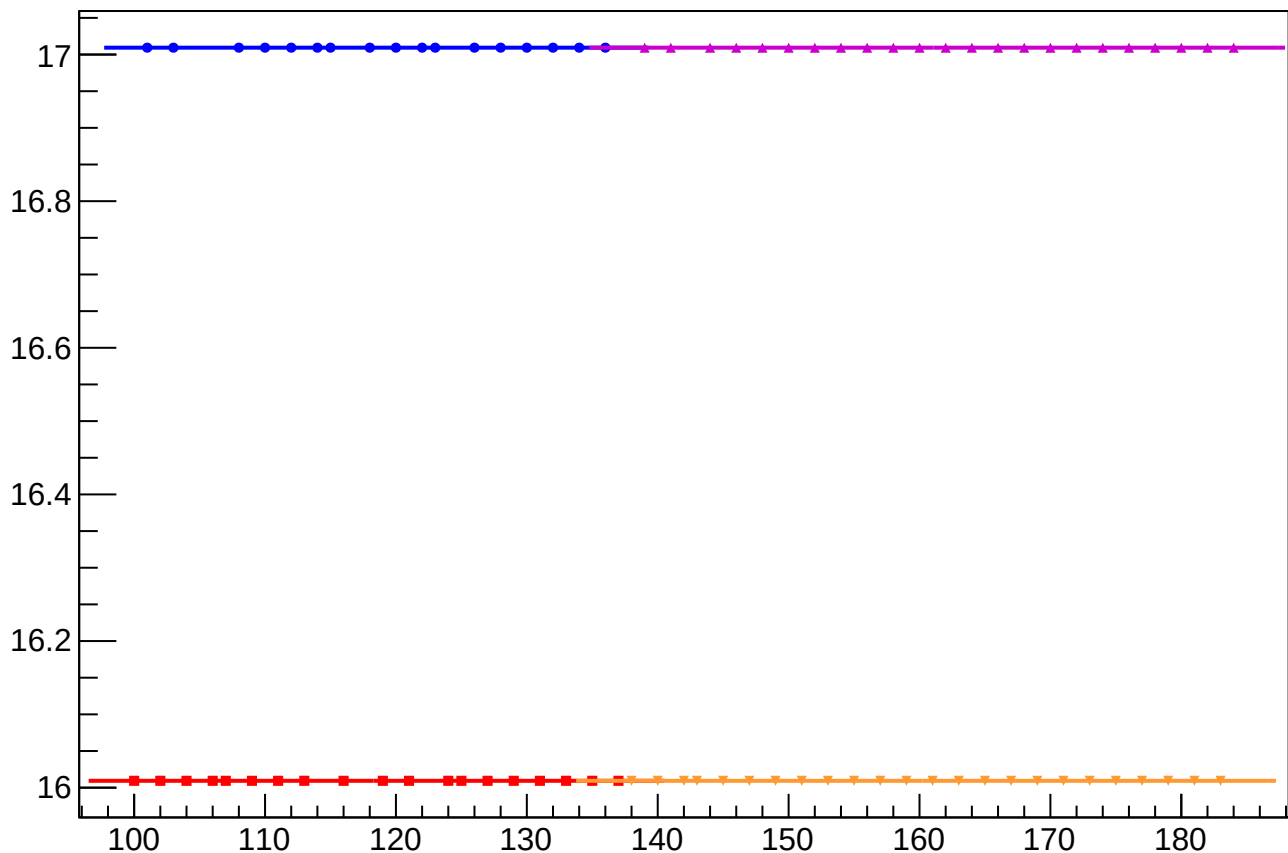
Right: 16.507+/-0.000 χ^2/NDF : 3279335089313653

In: 16.009+/-0.000 χ^2/NDF : 129579026151352316

Out: 17.009+/-0.000 χ^2/NDF : 38484362504262684

All: 16.515+/-0.000 χ^2/NDF : 1177330736388

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 119200.0/16

Left Out: 16.009+/-0.000 χ^2/NDF : 100216.9/23

Right Out: 16.009+/-0.000 χ^2/NDF : 39077.0/18

Left In: 17.009+/-0.000 χ^2/NDF : 114986101427233622065152.0/22

Left: 16.497+/-0.000 χ^2/NDF : 89767060615732068

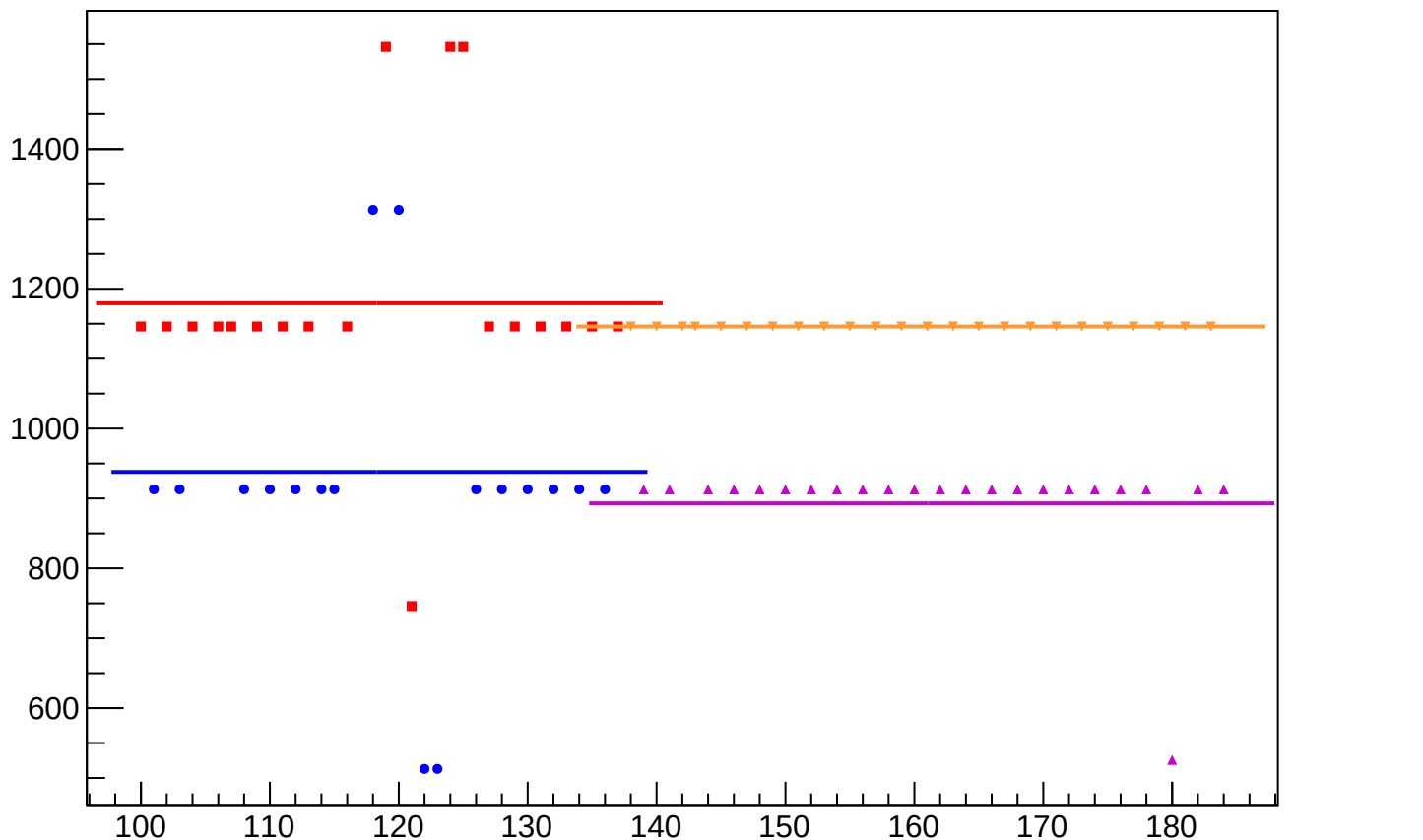
Right: 16.490+/-0.000 χ^2/NDF : 3424686588921133

In: 17.009+/-0.000 χ^2/NDF : 116511145094202532

Out: 16.009+/-0.000 χ^2/NDF : 290830.9/42

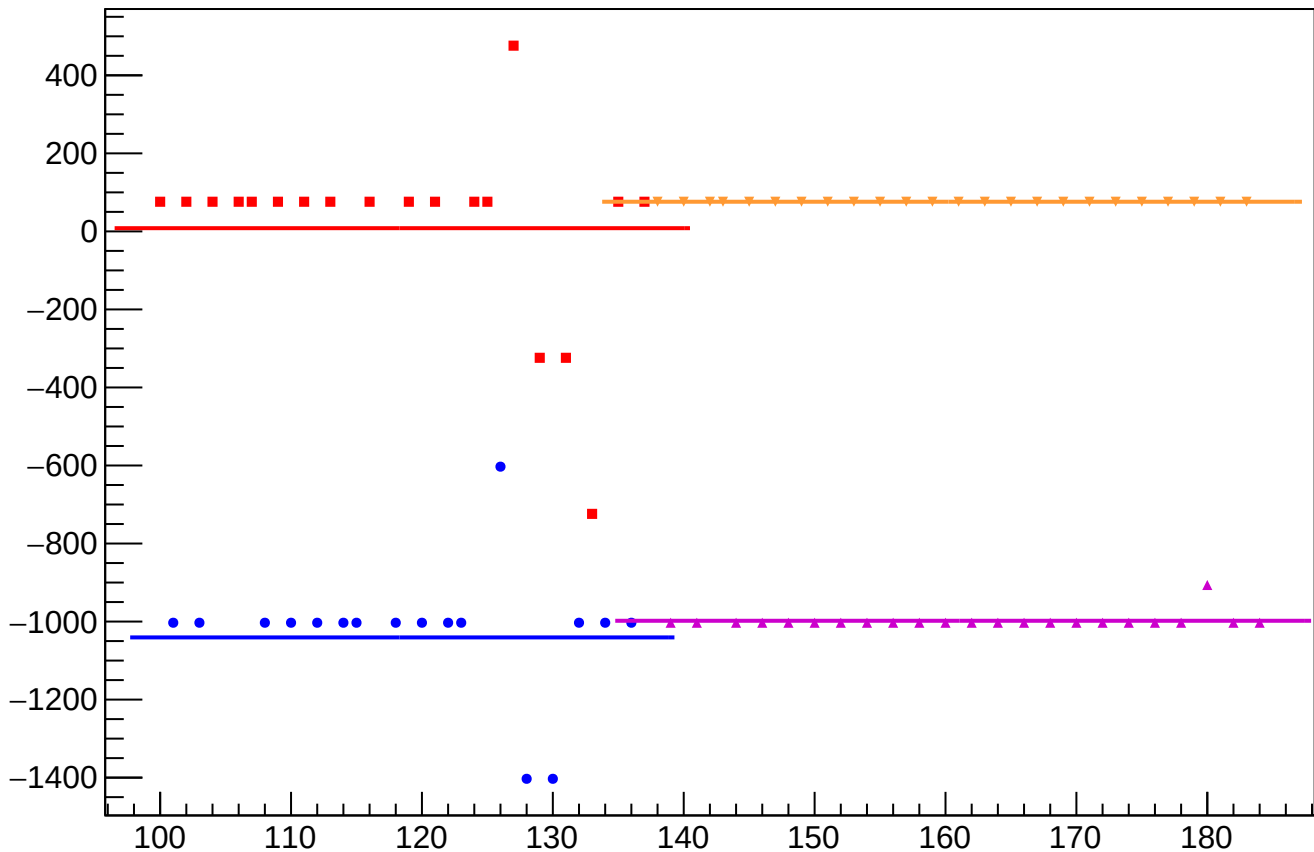
All: 16.495+/-0.000 χ^2/NDF : 1240188123230

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 937.887+/-0.000 χ^2/NDF : 20853195799113284359206128263972782080.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 6516238178085847371173855232.0/23
 Right Out: 1179.343+/-0.000 χ^2/NDF : 21280712999839458982137051519993774080.0/18
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1032.802+/-0.000 χ^2/NDF : 13607663961

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1040.616+/-0.000

χ^2/NDF : 22221373085920074948025403120531013632.0/16

Left Out: 76.011+/-0.000

χ^2/NDF : 11829856986990772455592689664.0/23

Right Out: 8.231+/-0.000

χ^2/NDF : 43732051061335101274341918679788158976.0/18

Left In: -997.979+/-0.000

χ^2/NDF : 825858066518991041870194619245920256.0/22

All: -465.932+/-0.000 χ^2/NDF : 15133168371