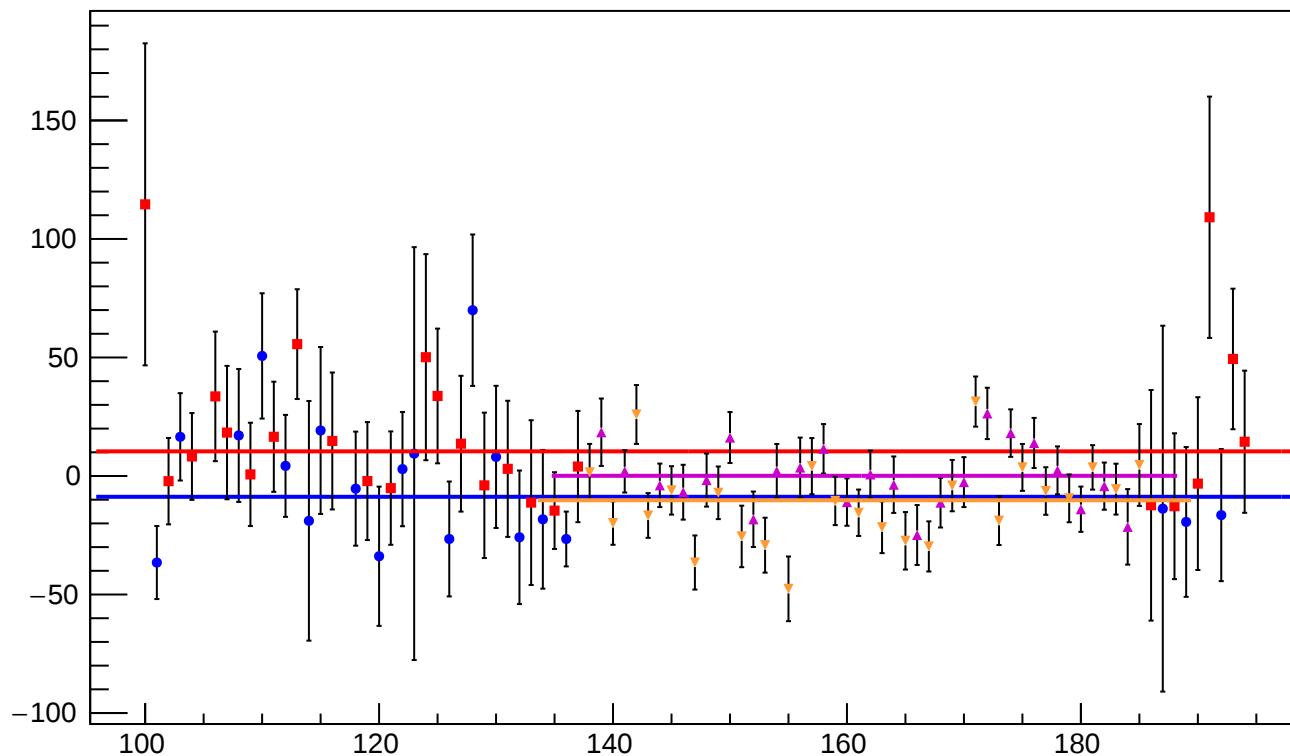


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.774 ± 5.413

$\chi^2/\text{NDF}: 23.1/19$

Left Out: -10.238 ± 2.170

$\chi^2/\text{NDF}: 58.1/24$

Right Out: 10.395 ± 5.286

$\chi^2/\text{NDF}: 19.5/24$

Left In: 0.080 ± 2.251

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

Left: -5.266 ± 1.562

$\chi^2/\text{NDF}: 98.9/47$

Right: 1.038 ± 3.782

$\chi^2/\text{NDF}: 49.0/44$

In: -1.224 ± 2.078

$\chi^2/\text{NDF}: 55.2/42$

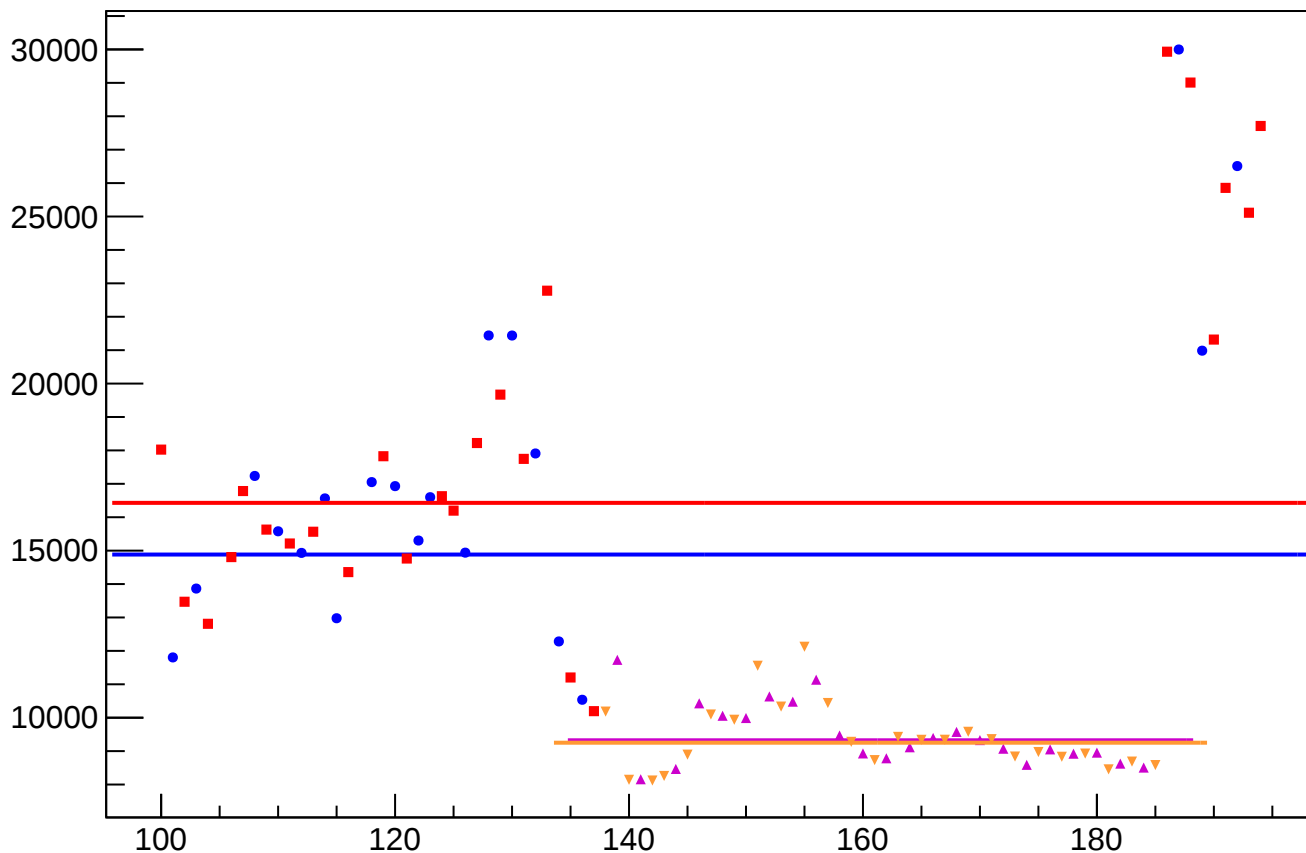
Out: -7.262 ± 2.008

$\chi^2/\text{NDF}: 90.7/49$

All: -4.347 ± 1.444

$\chi^2/\text{NDF}: 150.3/92$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14883.228+/-3.828 χ^2/NDF : 1137948.4/19

Left Out: 9251.811+/-1.535 χ^2/NDF : 332323.3/24

Right Out: 16429.981+/-3.738 χ^2/NDF : 1675266.9/24

Left In: 9323.983+/-1.591 χ^2/NDF : 275717.0/22

Left: 9286.587+/-1.105 χ^2/NDF : 609106.1/47

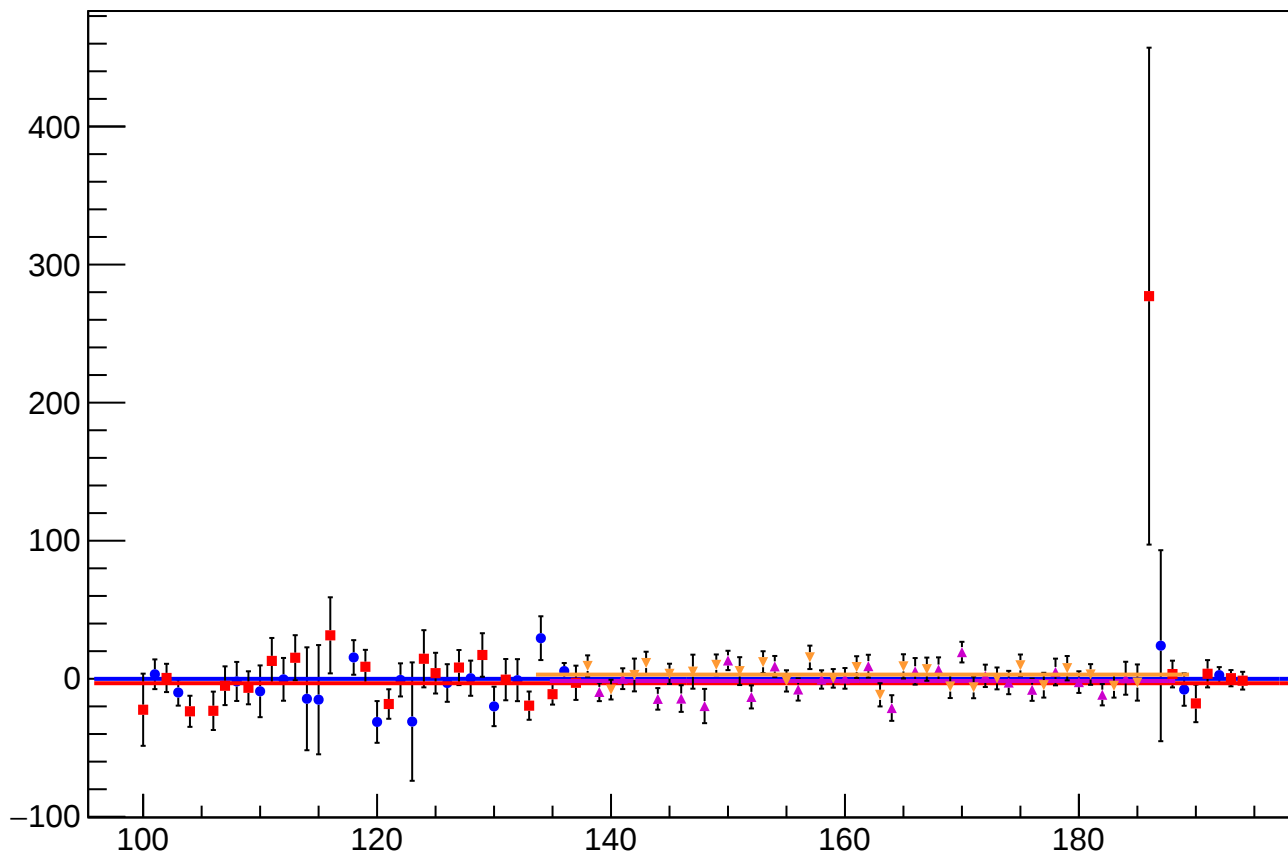
Right: 15674.963+/-2.674 χ^2/NDF : 2896795.4/44

In: 10143.245+/-1.469 χ^2/NDF : 3212101.2/42

Out: 10287.138+/-1.420 χ^2/NDF : 5163376.4/49

All: 10217.673+/-1.021 χ^2/NDF : 8380437.4/99

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.050+/-2.648 χ^2/NDF : 15.2/19

Left Out: 3.027+/-1.661 χ^2/NDF : 18.6/24

Right Out: -3.215+/-2.264 χ^2/NDF : 25.0/24

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

Left: 0.777+/-1.189 χ^2/NDF : 57.8/47

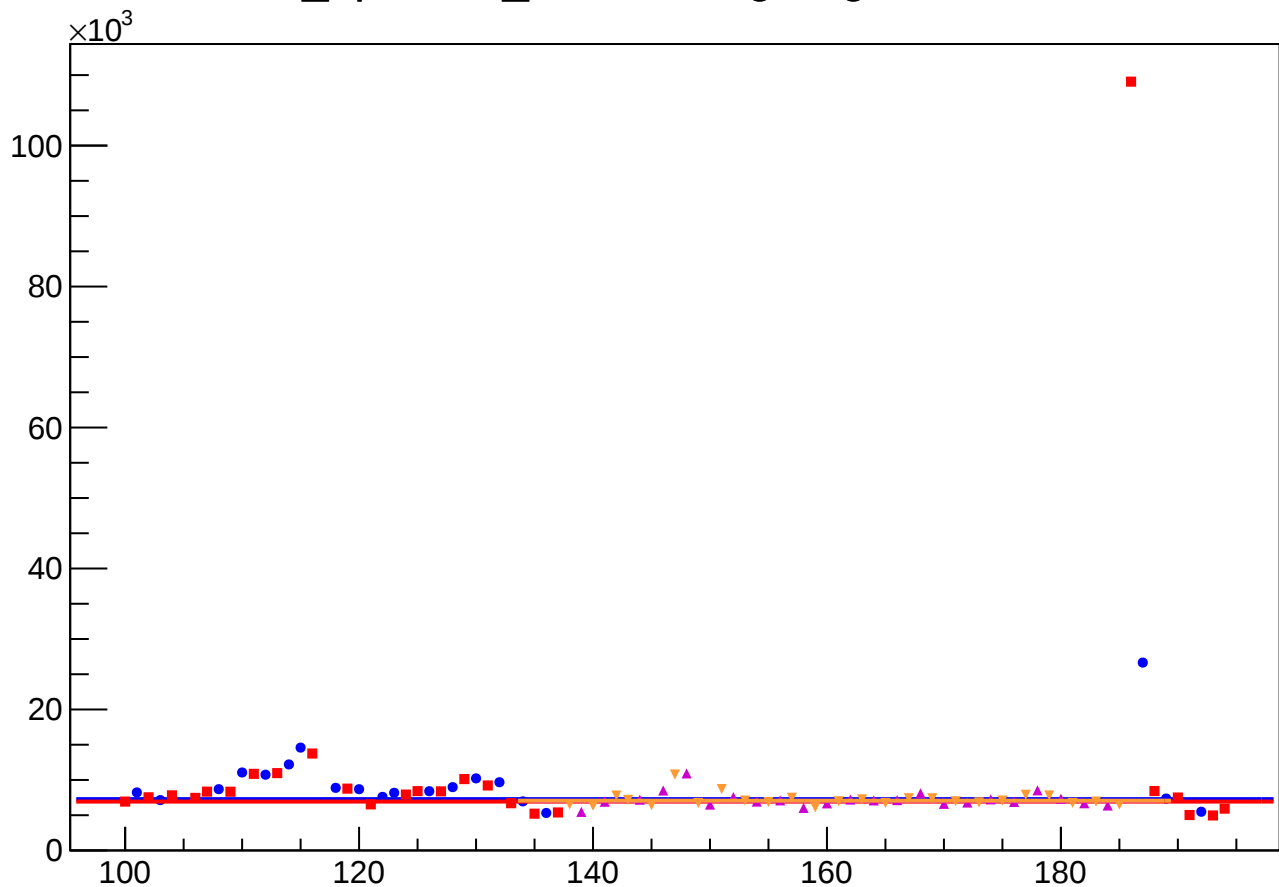
Right: -1.878+/-1.721 χ^2/NDF : 41.0/44

In: -1.138+/-1.432 χ^2/NDF : 51.0/42

Out: 0.844+/-1.339 χ^2/NDF : 48.5/49

All: -0.081+/-0.978 χ^2/NDF : 100.5/92

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7282.530 ± 1.872 $\chi^2/\text{NDF}: 1131488.5/19$

Left Out: 7064.457 ± 1.174 $\chi^2/\text{NDF}: 386814.9/24$

Right Out: 6932.453 ± 1.601 $\chi^2/\text{NDF}: 1832279.8/24$

Left In: 7014.572 ± 1.204 $\chi^2/\text{NDF}: 525313.7/22$

Left: 7040.137 ± 0.841 $\chi^2/\text{NDF}: 913008.5/47$

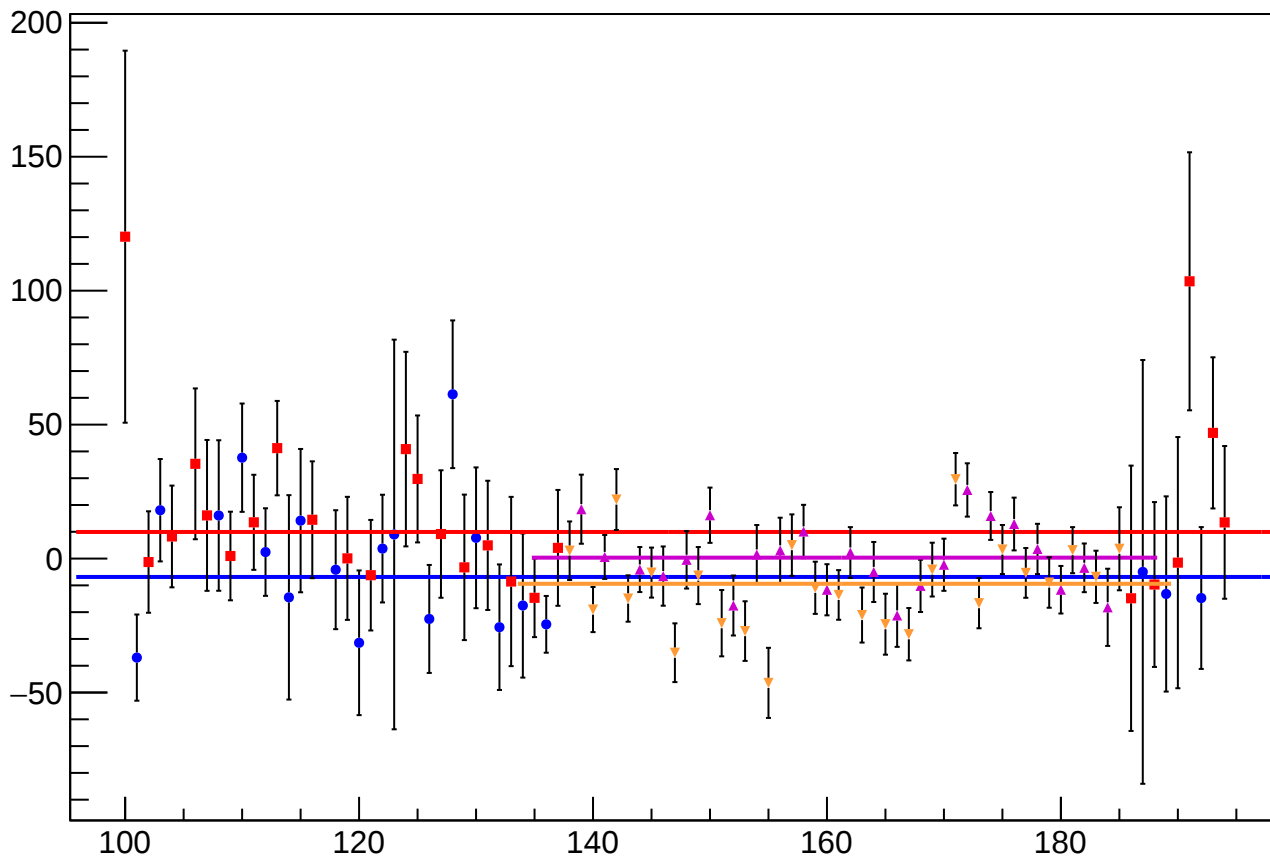
Right: 7080.314 ± 1.217 $\chi^2/\text{NDF}: 2983959.8/44$

In: 7092.947 ± 1.013 $\chi^2/\text{NDF}: 1671291.7/42$

Out: 7018.291 ± 0.947 $\chi^2/\text{NDF}: 2223514.7/49$

All: 7053.116 ± 0.692 $\chi^2/\text{NDF}: 3897706.2/92$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.860 $\pm$ 4.886 χ^2/NDF : 23.6/19

Left Out: -9.411 $\pm$ 2.021 χ^2/NDF : 58.8/24

Right Out: 9.933 $\pm$ 4.730 χ^2/NDF : 19.2/24

Left In: 0.344 $\pm$ 2.100 χ^2/NDF : 29.9/22

Left: -4.722 $\pm$ 1.456 χ^2/NDF : 99.9/47

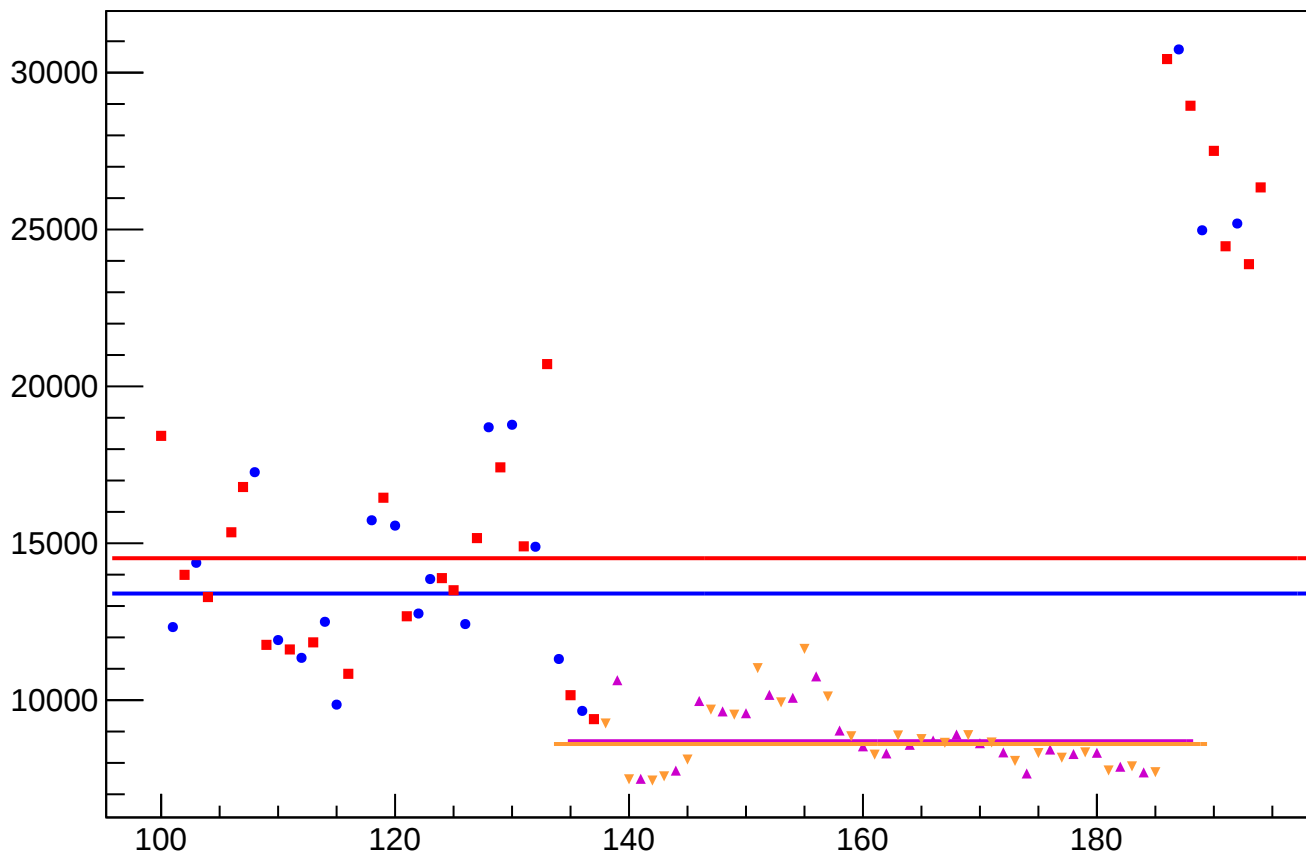
Right: 1.809 $\pm$ 3.398 χ^2/NDF : 48.9/44

In: -0.780 $\pm$ 1.930 χ^2/NDF : 55.4/42

Out: -6.425 $\pm$ 1.858 χ^2/NDF : 92.1/49

All: -3.708 $\pm$ 1.339 χ^2/NDF : 151.9/92

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 13397.976 $\pm$ 3.455 χ^2 /NDF: 1294157.6/19

Left Out: 8602.220 $\pm$ 1.429 χ^2 /NDF: 438805.2/24

Right Out: 14523.647 $\pm$ 3.345 χ^2 /NDF: 2118270.7/24

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

Left: 8644.996 $\pm$ 1.030 χ^2 /NDF: 805923.5/47

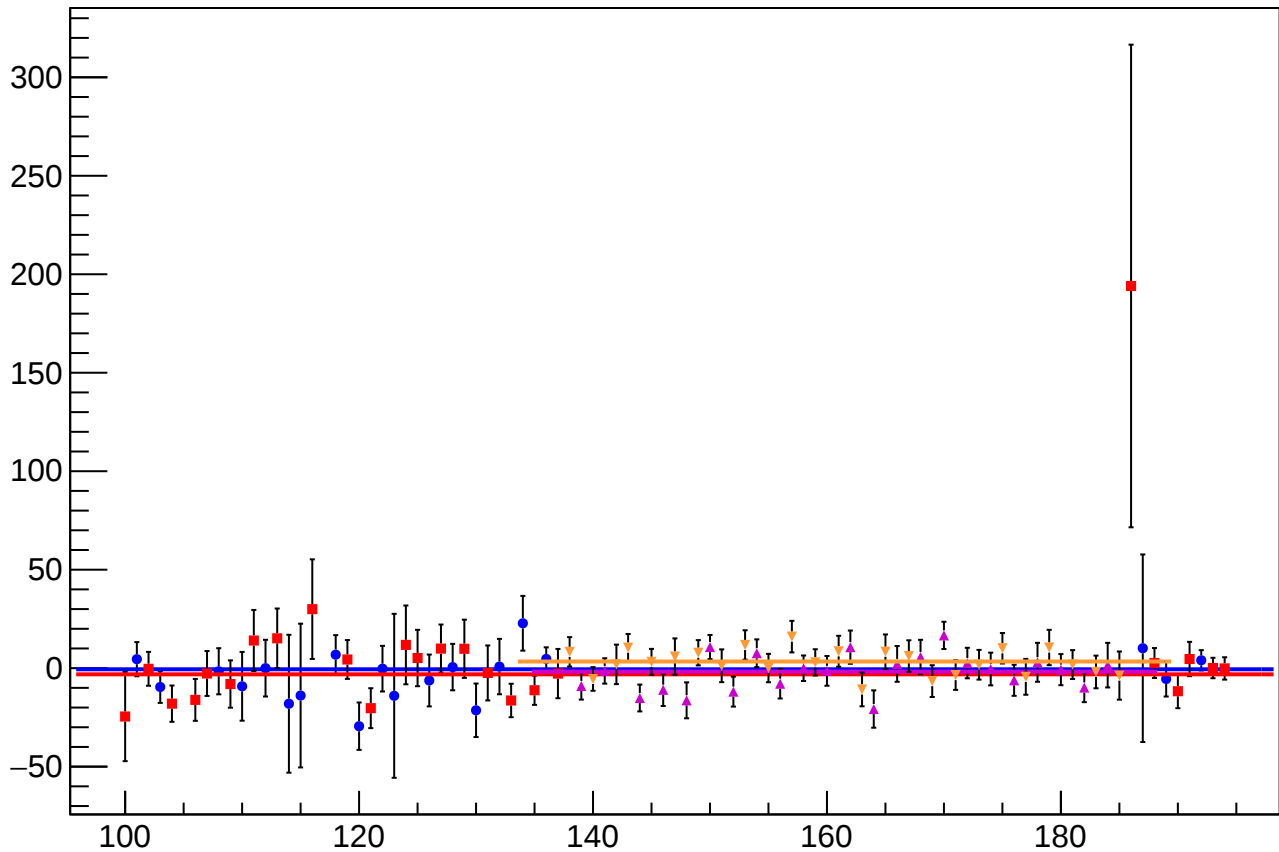
Right: 13979.081 $\pm$ 2.403 χ^2 /NDF: 3467228.7/44

In: 9425.386 $\pm$ 1.365 χ^2 /NDF: 3225852.5/42

Out: 9516.380 $\pm$ 1.314 χ^2 /NDF: 5207701.5/49

All: 9472.594 $\pm$ 0.947 χ^2 /NDF: 8435861.1/92

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -0.570 ± 2.365 χ^2/NDF : 16.0/19

Left Out: 3.374 ± 1.552 χ^2/NDF : 17.2/24

Right Out: -3.127 ± 1.979 χ^2/NDF : 25.2/24

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

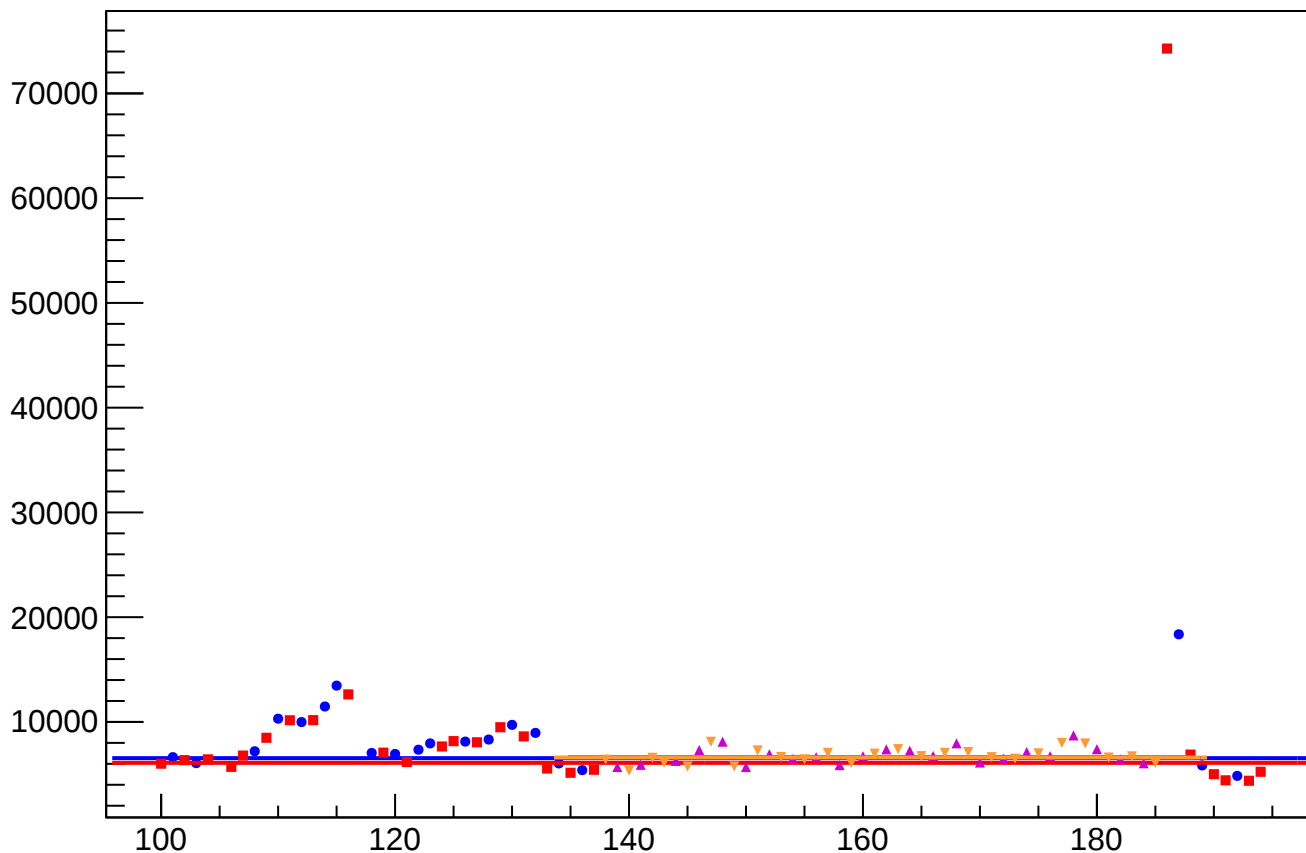
Right: -2.074 ± 1.518 χ^2/NDF : 41.8/44

In: -1.381 ± 1.329 χ^2/NDF : 49.7/42

Out: 0.900 ± 1.221 χ^2/NDF : 49.0/49

All: -0.145 ± 0.899 χ^2/NDF : 100.3/92

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6542.518 $\pm$ 1.672

χ^2/NDF : 1024144.4/19

Left Out: 6603.953 $\pm$ 1.097

χ^2/NDF : 395247.5/24

Right Out: 6093.894 $\pm$ 1.400

χ^2/NDF : 1860877.5/24

Left In: 6637.155 $\pm$ 1.136

χ^2/NDF : 415547.5/22

Left: 6619.974 $\pm$ 0.789 χ^2/NDF : 811236.9/47

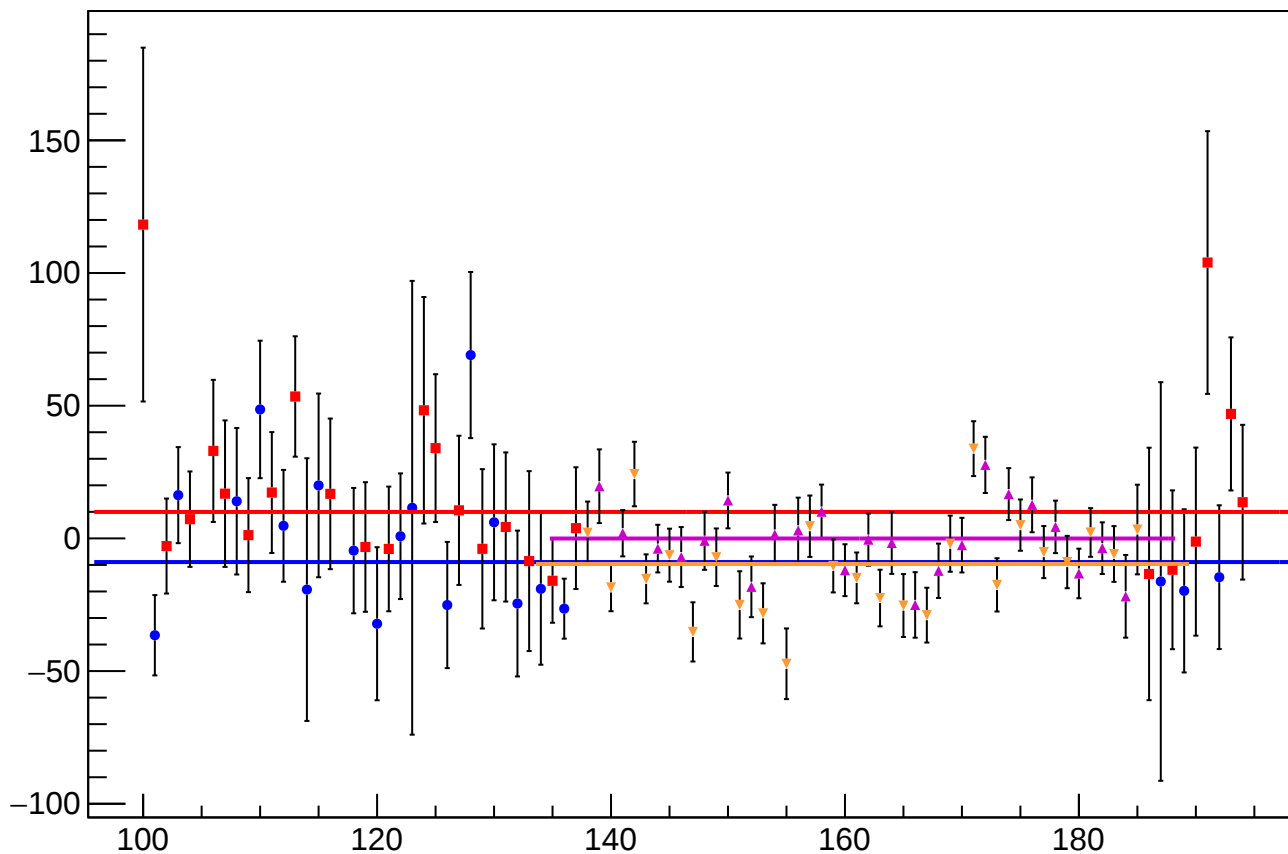
Right: 6278.747 $\pm$ 1.073 χ^2/NDF : 2927350.5/44

In: 6607.255 $\pm$ 0.940 χ^2/NDF : 1441883.5/42

Out: 6409.806 $\pm$ 0.864 χ^2/NDF : 2338370.2/49

All: 6500.196 $\pm$ 0.636 χ^2/NDF : 3804186.1/92

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.915 ± 5.303 $\chi^2/\text{NDF}: 22.9/19$

Left Out: -9.640 ± 2.122 $\chi^2/\text{NDF}: 59.9/24$

Right Out: 9.968 ± 5.177 $\chi^2/\text{NDF}: 19.6/24$

Left In: -0.042 ± 2.200 $\chi^2/\text{NDF}: 30.8/22$

Left: -5.015 ± 1.527 $\chi^2/\text{NDF}: 100.5/47$

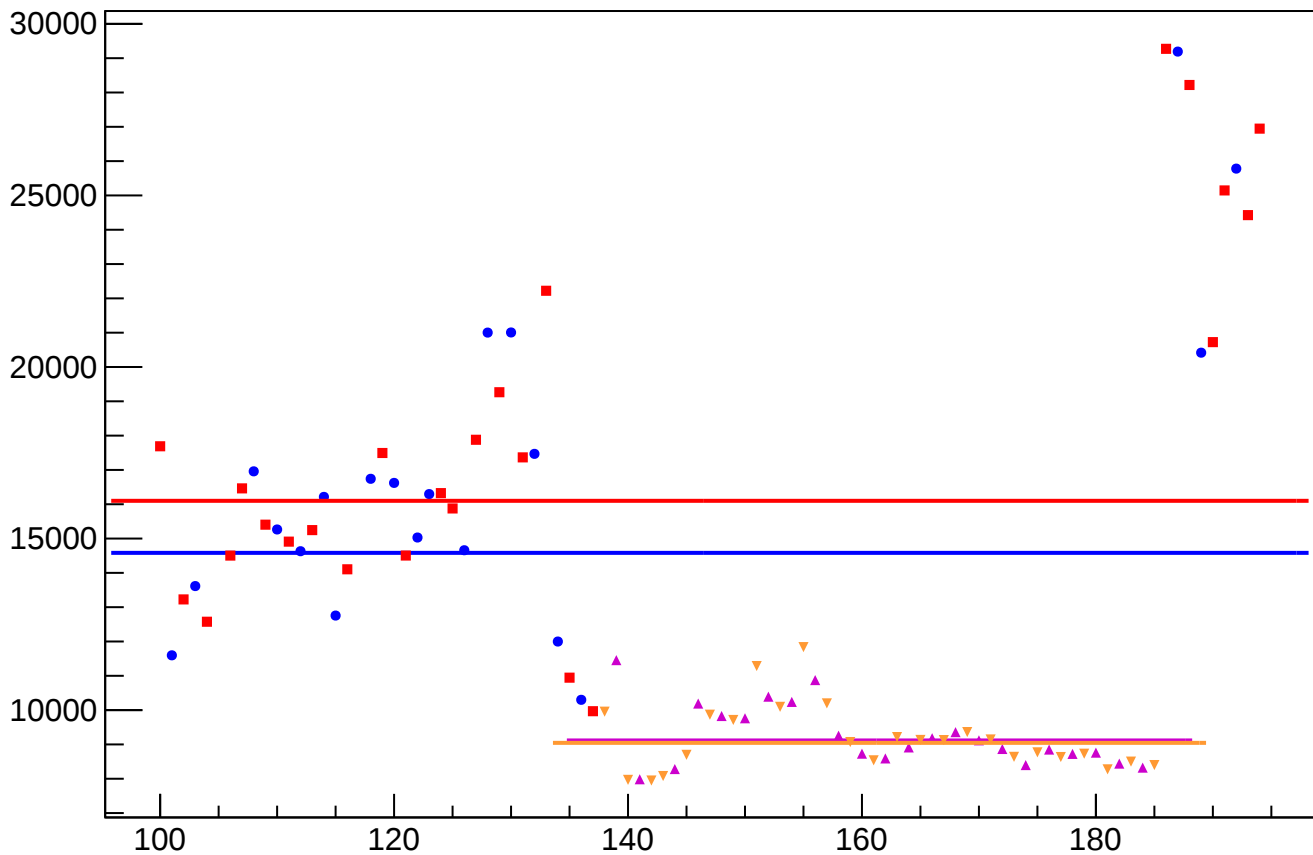
Right: 0.753 ± 3.704 $\chi^2/\text{NDF}: 49.0/44$

In: -1.345 ± 2.032 $\chi^2/\text{NDF}: 56.1/42$

Out: -6.820 ± 1.963 $\chi^2/\text{NDF}: 91.8/49$

All: -4.177 ± 1.412 $\chi^2/\text{NDF}: 151.6/92$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14583.193+/-3.750 χ^2/NDF : 1130611.8/19

Left Out: 9045.871+/-1.500 χ^2/NDF : 328508.5/24

Right Out: 16099.939+/-3.661 χ^2/NDF : 1653892.8/24

Left In: 9115.817+/-1.556 χ^2/NDF : 272471.8/22

Left: 9079.576+/-1.080 χ^2/NDF : 602027.6/47

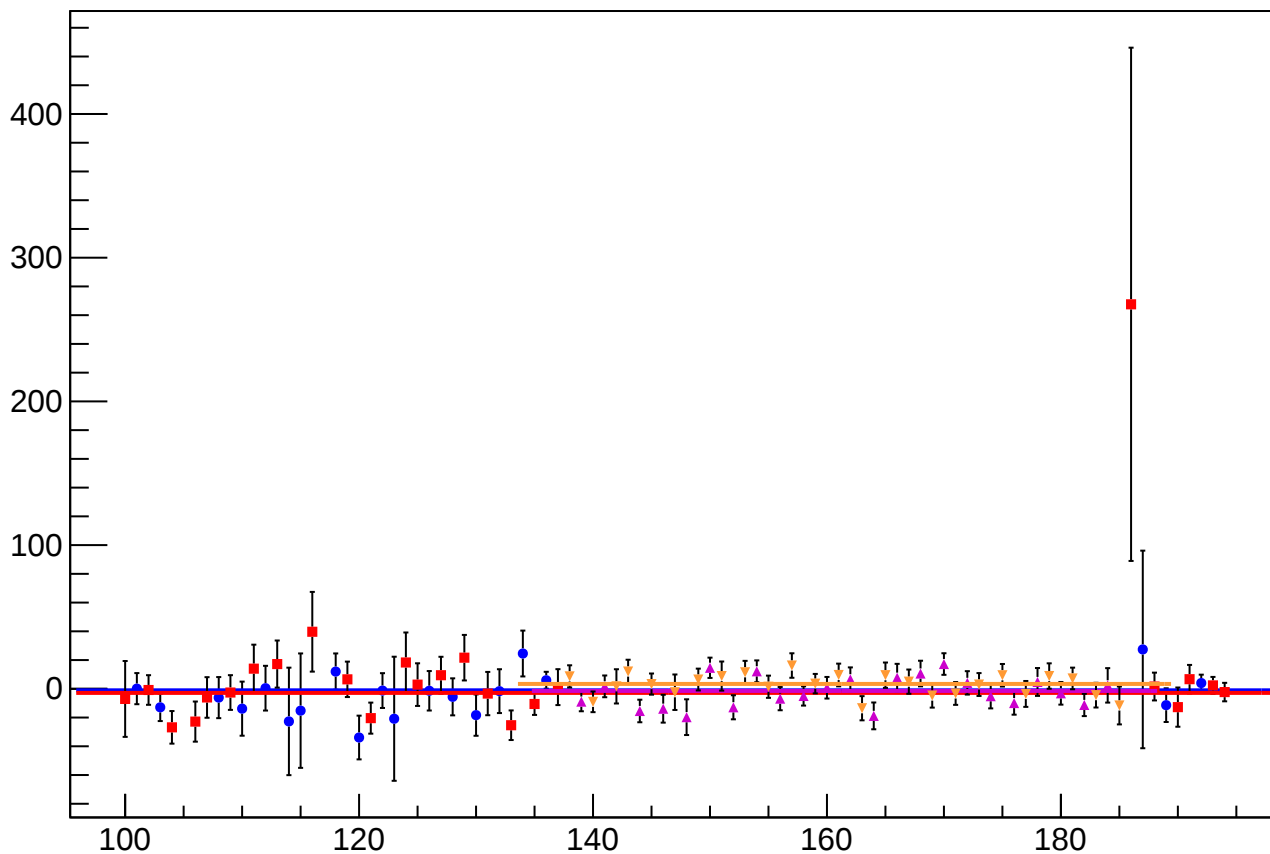
Right: 15359.749+/-2.619 χ^2/NDF : 2868274.6/44

In: 9918.741+/-1.437 χ^2/NDF : 3216852.2/42

Out: 10060.249+/-1.388 χ^2/NDF : 5161367.6/49

All: 9991.935+/-0.998 χ^2/NDF : 8383235.9/92

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.060 $\pm$ 2.663 χ^2/NDF : 15.8/19

Left Out: 3.387 $\pm$ 1.668 χ^2/NDF :19.4/24

Right Out: -2.845 $\pm$ 2.277 χ^2/NDF : 29.9/24

Left In: -1.479 $\pm$ 1.710 χ^2/NDF :36.7/22

Left: 1.015 $\pm$ 1.194 χ^2/NDF : 60.3/47

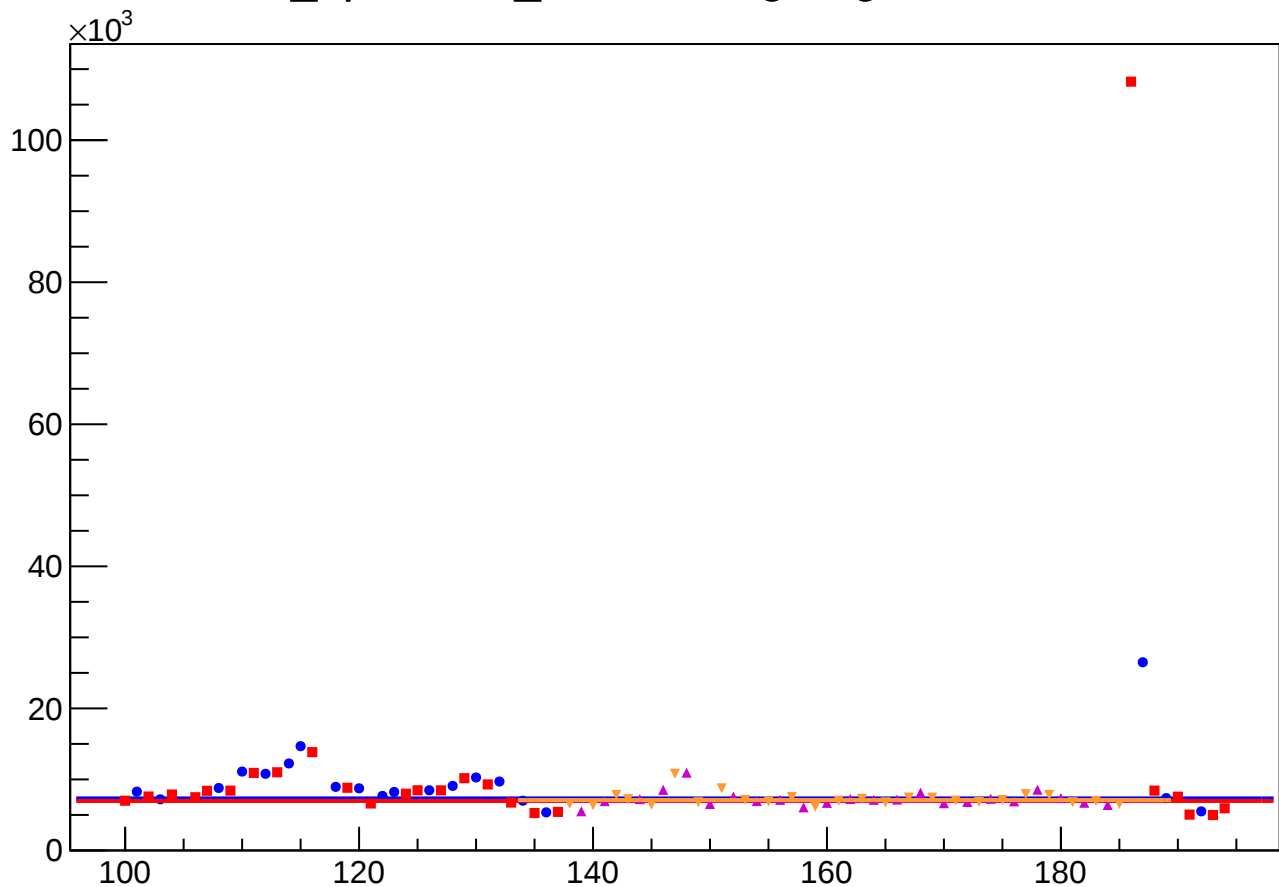
Right: -2.092 $\pm$ 1.731 χ^2/NDF : 45.9/44

In: -1.357 $\pm$ 1.439 χ^2/NDF :52.6/42

Out: 1.210 $\pm$ 1.345 χ^2/NDF :54.1/49

All: 0.013 $\pm$ 0.983 χ^2/NDF : 108.4/92

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7325.406 $\pm$ 1.883 χ^2/NDF : 1133761.1/19

Left Out: 7096.350 $\pm$ 1.179 χ^2/NDF : 381942.1/24

Right Out: 6971.926 $\pm$ 1.610 χ^2/NDF : 1834217.1/24

Left In: 7047.269 $\pm$ 1.209 χ^2/NDF : 517433.5/22

Left: 7072.425 $\pm$ 0.844 χ^2/NDF : 900219.9/47

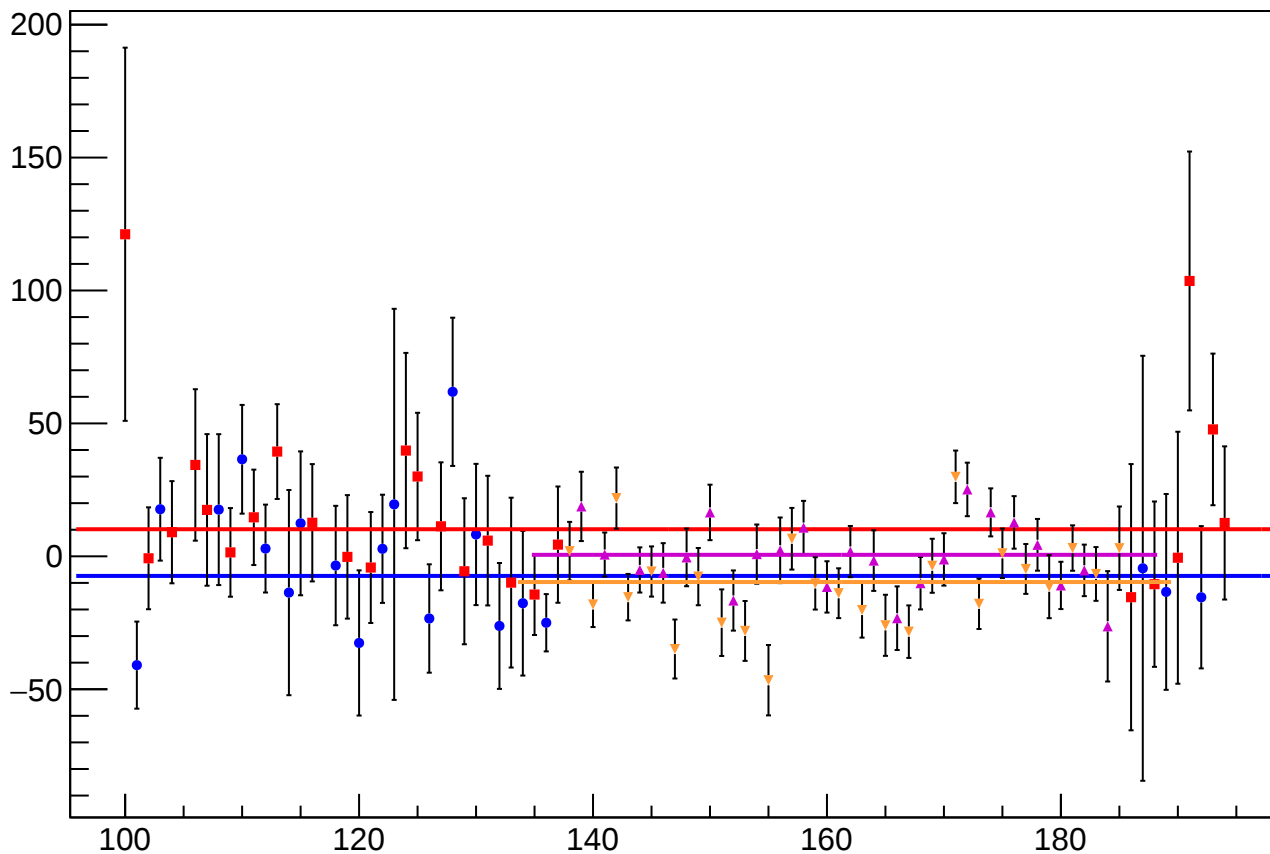
Right: 7121.167 $\pm$ 1.224 χ^2/NDF : 2988331.1/44

In: 7128.465 $\pm$ 1.018 χ^2/NDF : 1666637.1/42

Out: 7052.900 $\pm$ 0.951 χ^2/NDF : 2220046.3/49

All: 7088.144 $\pm$ 0.695 χ^2/NDF : 3889625.8/92

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.370 ± 4.951 $\chi^2/\text{NDF}: 24.2/19$

Left Out: -9.670 ± 2.061 $\chi^2/\text{NDF}: 57.9/24$

Right Out: 10.192 ± 4.796 $\chi^2/\text{NDF}: 18.3/24$

Left In: 0.564 ± 2.144 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.755 ± 1.486 $\chi^2/\text{NDF}: 99.5/47$

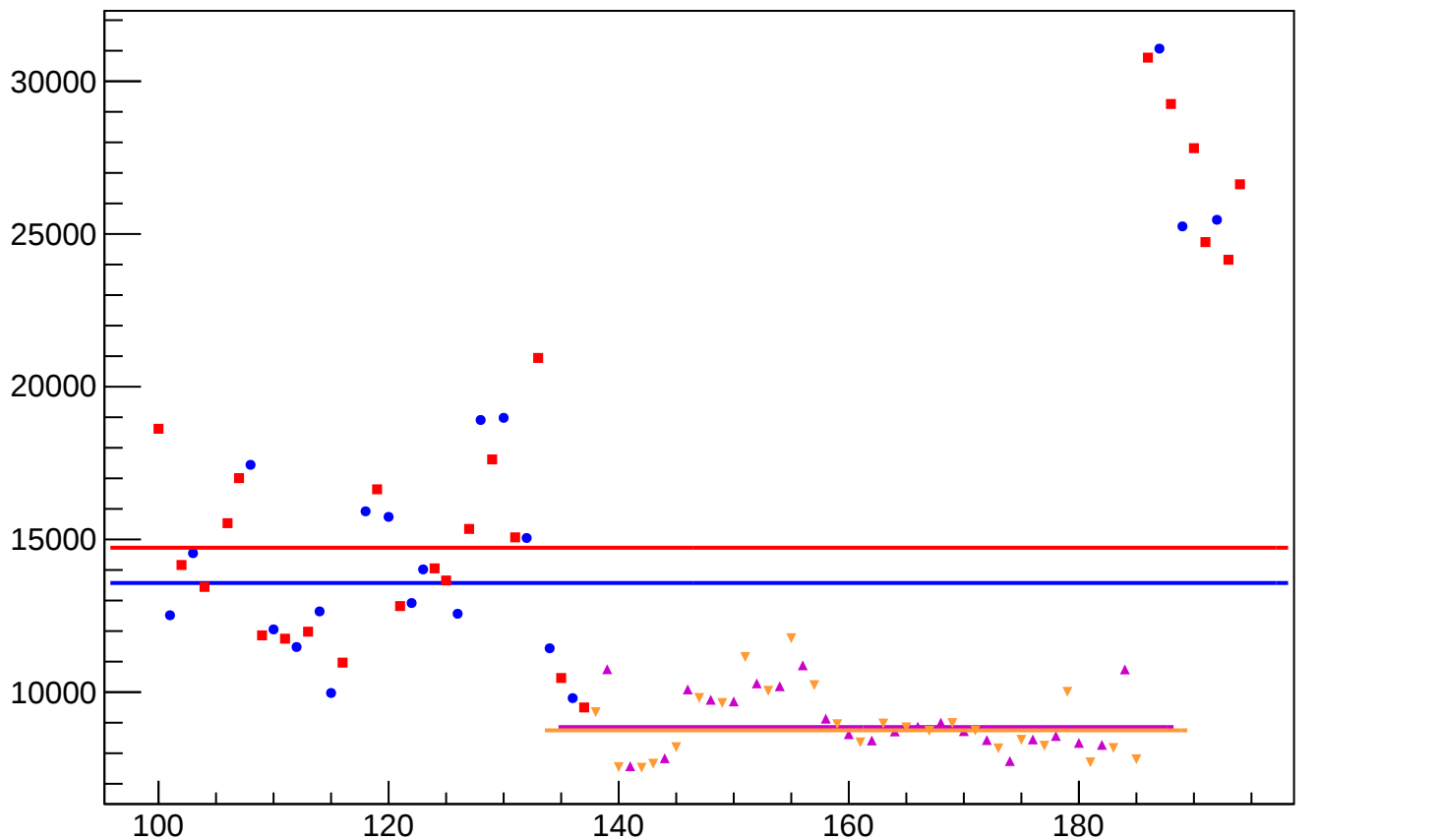
Right: 1.691 ± 3.445 $\chi^2/\text{NDF}: 48.9/44$

In: -0.689 ± 1.967 $\chi^2/\text{NDF}: 56.1/42$

Out: -6.575 ± 1.893 $\chi^2/\text{NDF}: 90.7/49$

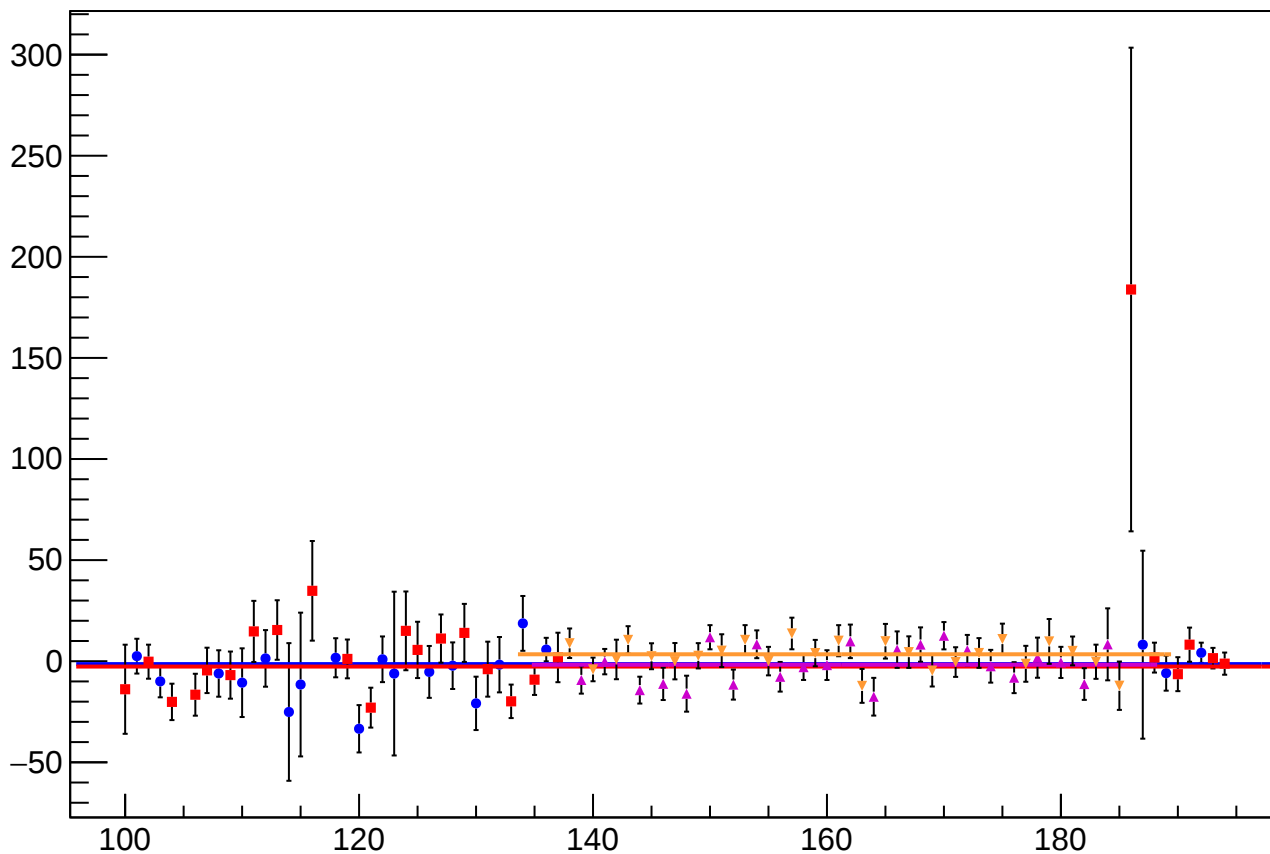
All: -3.744 ± 1.364 $\chi^2/\text{NDF}: 151.4/92$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13574.443 ± 3.501 $\chi^2/\text{NDF}: 1284328.1/19$
 Left: 8801.764 ± 1.050 $\chi^2/\text{NDF}: 828244.3/47$
 Left Out: 8750.420 ± 1.457 $\chi^2/\text{NDF}: 463880.1/24$
 Right: 14170.137 ± 2.436 $\chi^2/\text{NDF}: 3435759.4/44$
 Right Out: 14729.030 ± 3.391 $\chi^2/\text{NDF}: 2095312.5/24$
 In: 9602.055 ± 1.391 $\chi^2/\text{NDF}: 3175036.1/42$
 Out: 9682.250 ± 1.339 $\chi^2/\text{NDF}: 5183213.4/49$
 Left In: 8857.329 ± 1.516 $\chi^2/\text{NDF}: 361778.8/22$
 All: 9643.688 ± 0.965 $\chi^2/\text{NDF}: 8359975.0/92$

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -1.431 ± 2.311 χ^2/NDF : 17.6/19

Left Out: 3.433 ± 1.526 χ^2/NDF : 16.2/24

Right Out: -2.645 ± 1.934 χ^2/NDF : 30.0/24

Left In: -1.734 ± 1.586 χ^2/NDF : 33.6/22

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

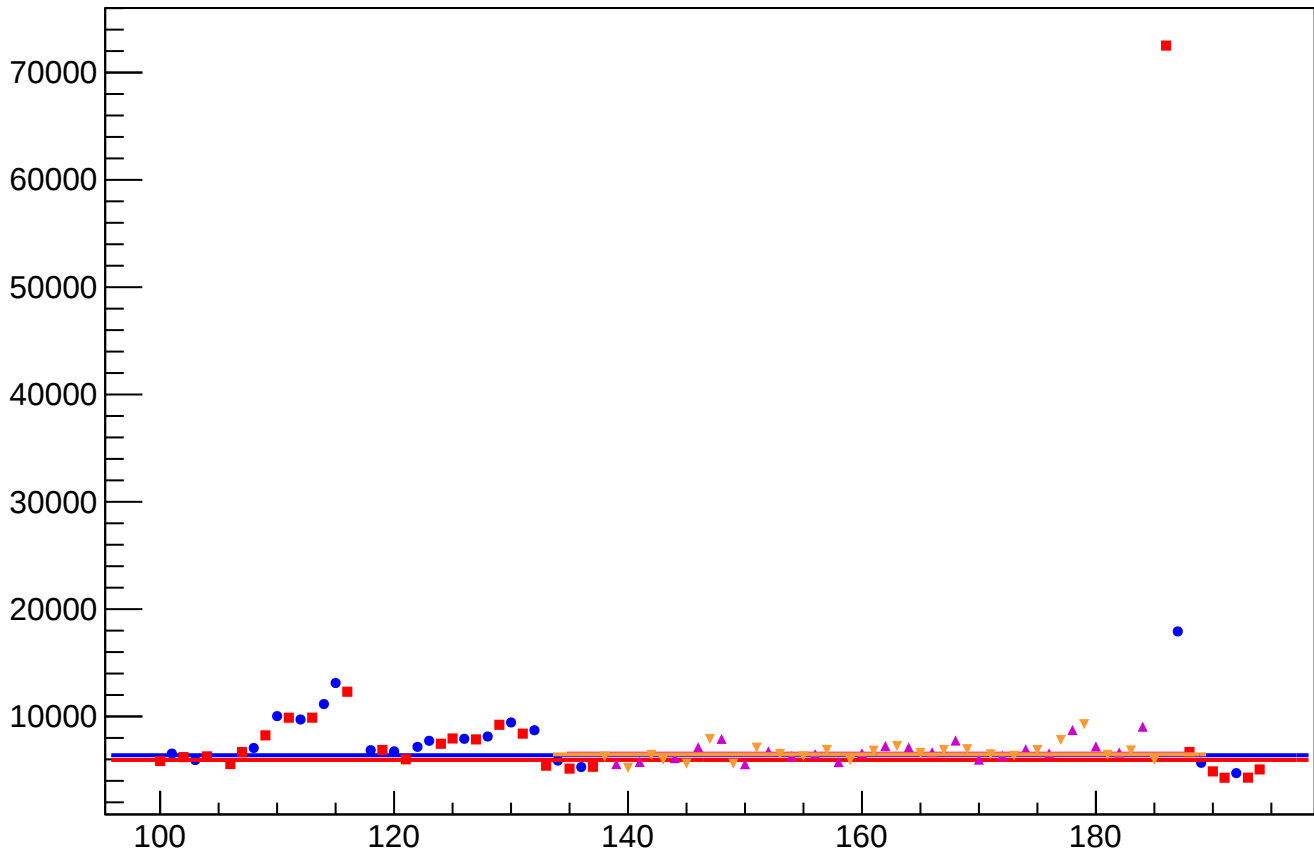
Right: -2.145 ± 1.483 χ^2/NDF : 47.8/44

In: -1.637 ± 1.308 χ^2/NDF : 51.2/42

Out: 1.102 ± 1.198 χ^2/NDF : 52.3/49

All: -0.148 ± 0.883 χ^2/NDF : 106.0/92

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6388.134+/-1.634 χ^2/NDF : 1020771.7/19

Left Out: 6468.872+/-1.079 χ^2/NDF : 487187.3/24

Right Out: 5951.323+/-1.368 χ^2/NDF : 1845935.1/24

Left In: 6530.954+/-1.121 χ^2/NDF : 464668.6/22

Left: 6498.713+/-0.777 χ^2/NDF : 953447.7/47

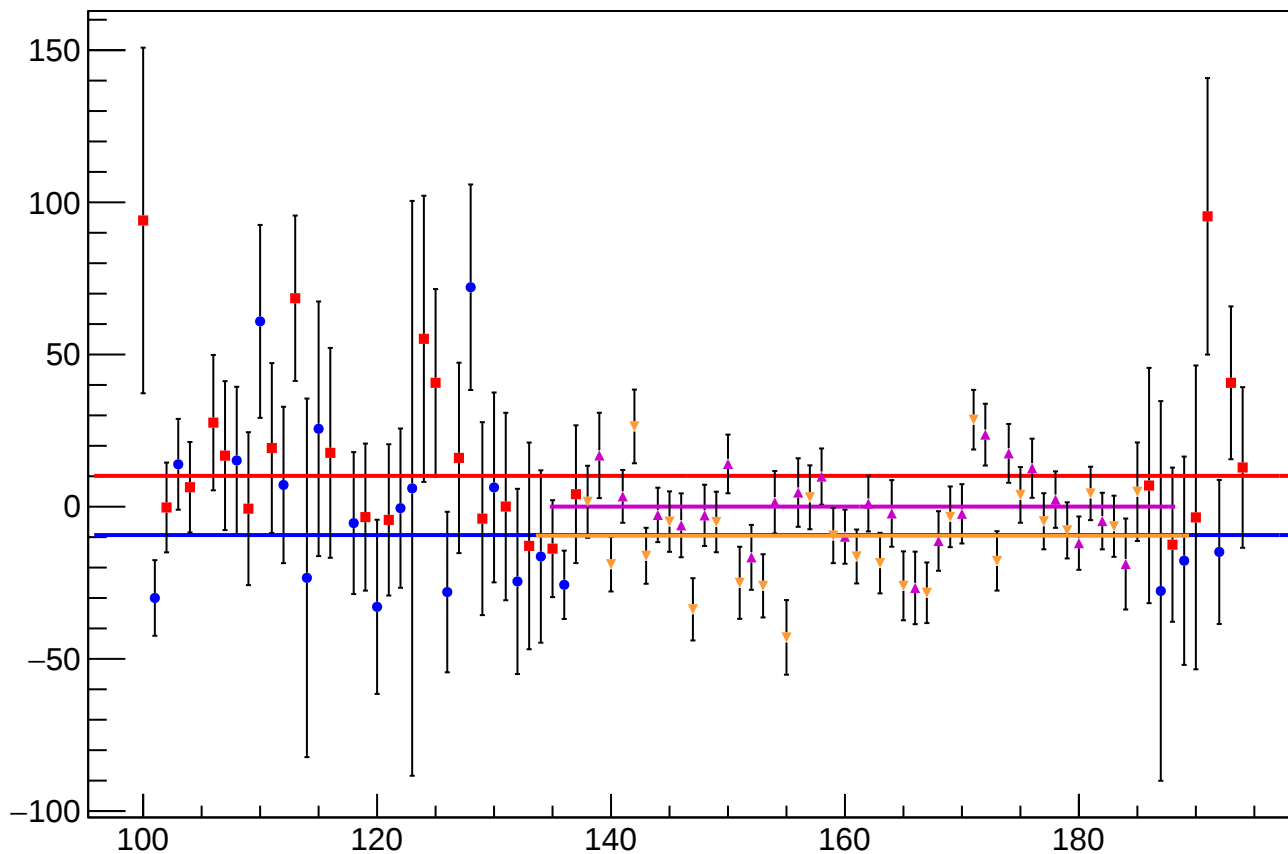
Right: 6131.301+/-1.049 χ^2/NDF : 2908734.7/44

In: 6485.220+/-0.925 χ^2/NDF : 1490634.7/42

Out: 6270.372+/-0.847 χ^2/NDF : 2421396.3/49

All: 6368.412+/-0.625 χ^2/NDF : 3941390.7/92

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.322 ± 5.187 χ^2/NDF : 22.3/19

Left Out: -9.528 ± 2.015 χ^2/NDF : 59.6/24

Right Out: 10.134 ± 5.064 χ^2/NDF : 20.0/24

Left In: 0.027 ± 2.080 χ^2/NDF : 29.9/22

Left: -4.902 ± 1.447 χ^2/NDF : 100.3/47

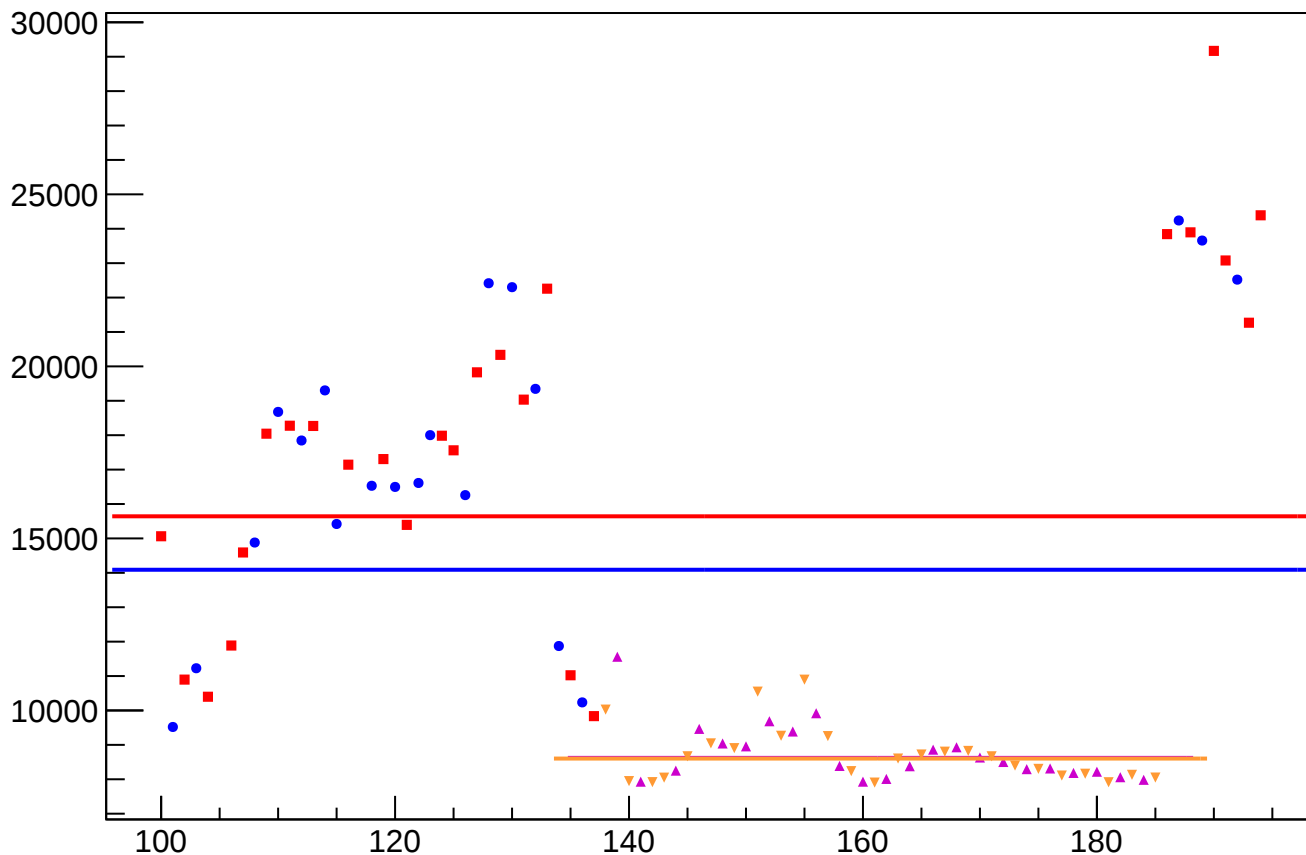
Right: 0.639 ± 3.623 χ^2/NDF : 49.5/44

In: -1.268 ± 1.930 χ^2/NDF : 55.0/42

Out: -6.840 ± 1.872 χ^2/NDF : 92.5/49

All: -4.139 ± 1.344 χ^2/NDF : 151.9/92

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 14089.358+/-3.667 χ^2/NDF : 1551260.4/19

Left Out: 8601.926+/-1.425 χ^2/NDF : 248903.5/24

Right Out: 15642.566+/-3.581 χ^2/NDF : 1900485.2/24

Left In: 8621.975+/-1.471 χ^2/NDF : 230824.4/22

Left: 8611.634+/-1.023 χ^2/NDF : 479823.8/47

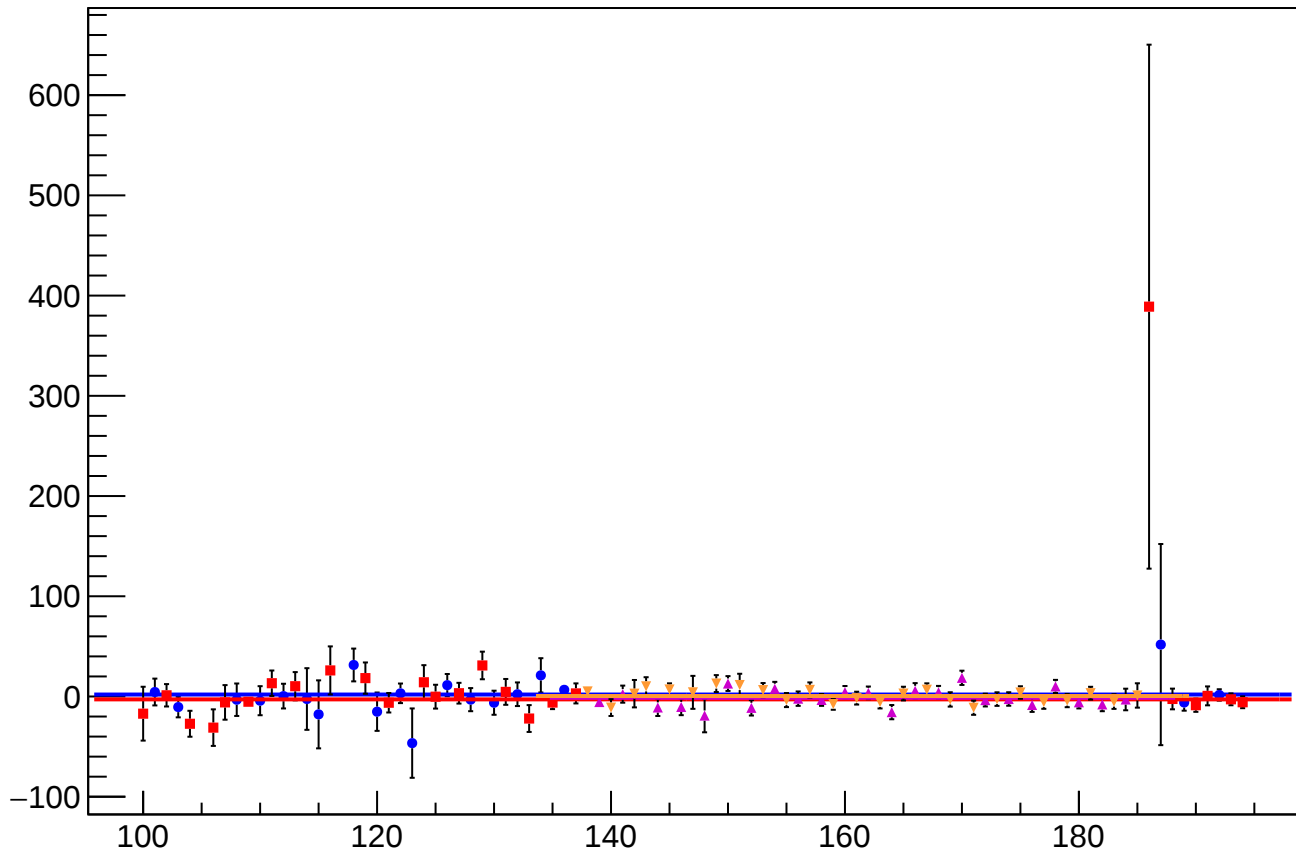
Right: 14884.562+/-2.562 χ^2/NDF : 3543572.3/44

In: 9379.361+/-1.365 χ^2/NDF : 3696610.7/42

Out: 9564.538+/-1.324 χ^2/NDF : 5487057.6/49

All: 9474.774+/-0.950 χ^2/NDF : 9193150.7/92

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.950 ± 2.375 $\chi^2/\text{NDF}: 13.1/19$

Left Out: 0.481 ± 1.419 $\chi^2/\text{NDF}: 19.6/24$

Right Out: -2.882 ± 1.931 $\chi^2/\text{NDF}: 26.4/24$

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

Left: -0.417 ± 0.999 $\chi^2/\text{NDF}: 53.4/47$

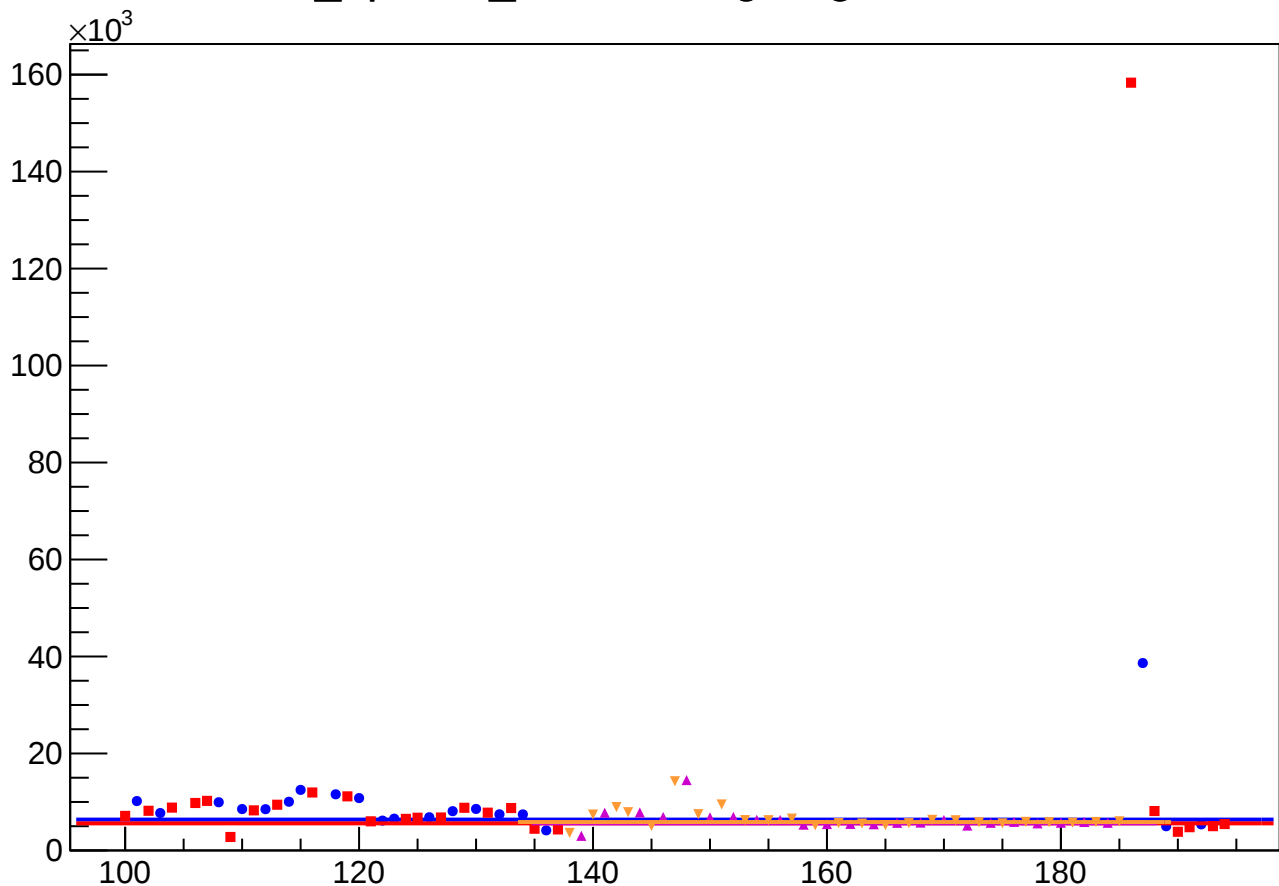
Right: -0.958 ± 1.498 $\chi^2/\text{NDF}: 41.9/44$

In: -0.455 ± 1.210 $\chi^2/\text{NDF}: 47.5/42$

Out: -0.699 ± 1.144 $\chi^2/\text{NDF}: 47.9/49$

All: -0.584 ± 0.831 $\chi^2/\text{NDF}: 95.4/92$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6362.951 ± 1.679 $\chi^2/\text{NDF}: 1748596.1/19$

Left Out: 5858.642 ± 1.004 $\chi^2/\text{NDF}: 1691344.1/24$

Right Out: 5586.685 ± 1.366 $\chi^2/\text{NDF}: 3278863.6/24$

Left In: 5596.879 ± 0.994 $\chi^2/\text{NDF}: 2089750.1/22$

Left: 5726.555 ± 0.706 $\chi^2/\text{NDF}: 3815425.5/47$

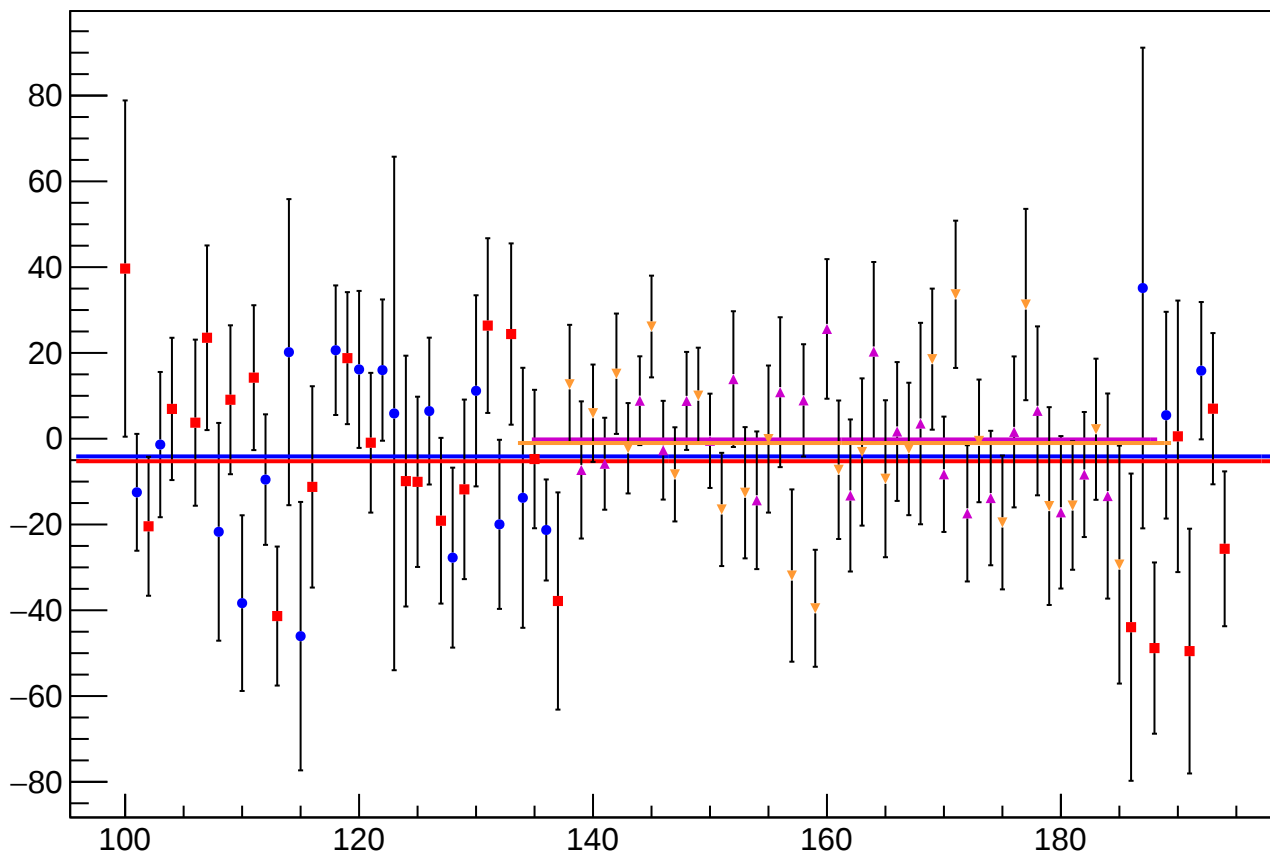
Right: 5895.737 ± 1.059 $\chi^2/\text{NDF}: 5156103.2/44$

In: 5795.786 ± 0.856 $\chi^2/\text{NDF}: 3992459.7/42$

Out: 5763.276 ± 0.809 $\chi^2/\text{NDF}: 4995960.0/49$

All: 5778.616 ± 0.588 $\chi^2/\text{NDF}: 8989182.3/92$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.127 ± 4.273 χ^2/NDF : 18.7/19

Left Out: -1.007 ± 2.942 χ^2/NDF : 33.5/24

Right Out: -5.254 ± 3.956 χ^2/NDF : 31.2/24

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

Left: -0.607 ± 2.123 χ^2/NDF : 45.9/47

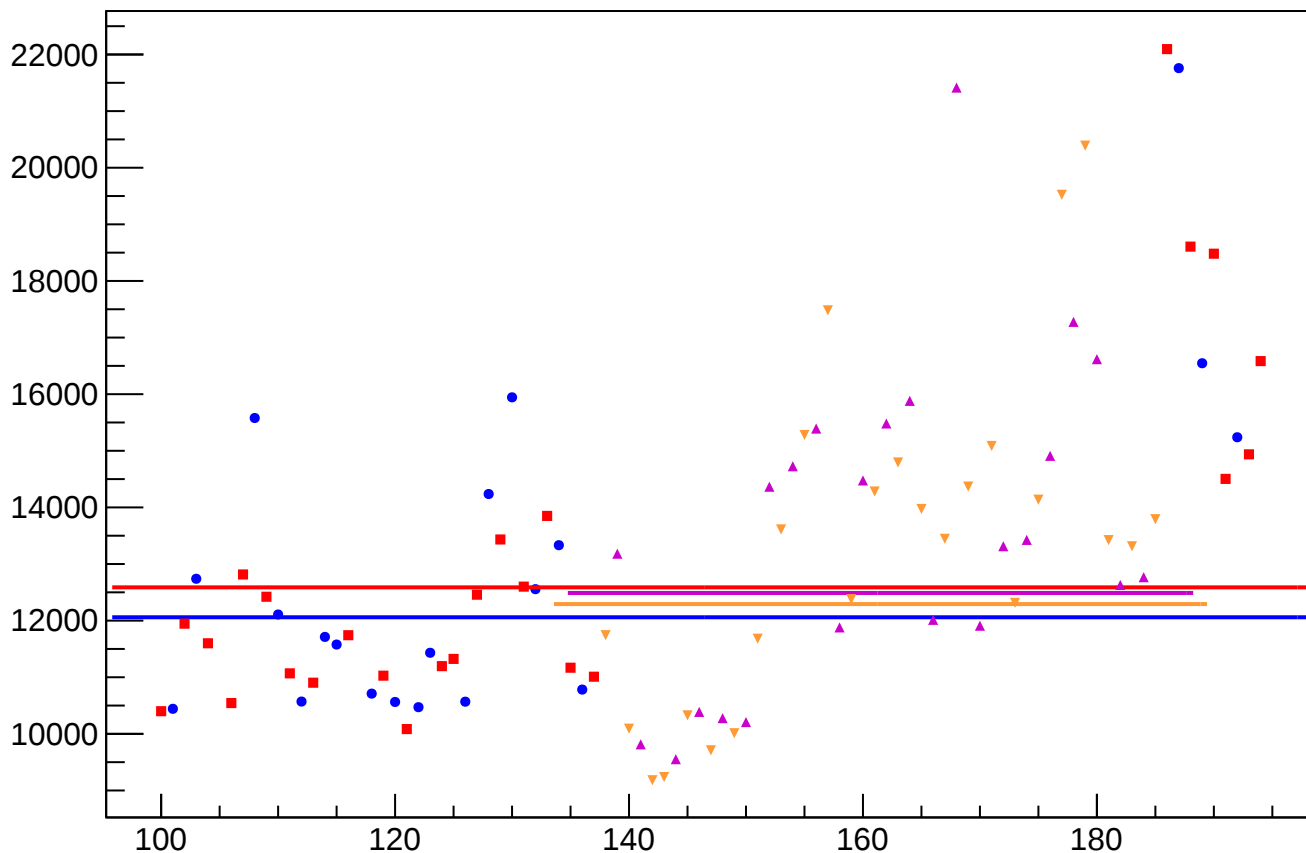
Right: -4.734 ± 2.903 χ^2/NDF : 49.9/44

In: -1.517 ± 2.492 χ^2/NDF : 31.6/42

Out: -2.519 ± 2.361 χ^2/NDF : 65.4/49

All: -2.045 ± 1.714 χ^2/NDF : 97.1/92

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12059.424+/-3.021 χ^2/NDF : 471757.2/19

Left Out: 12292.583+/-2.080 χ^2/NDF : 1502548.3/24

Right Out: 12587.844+/-2.798 χ^2/NDF : 728321.5/24

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

Left: 12386.599+/-1.501 χ^2/NDF : 2861298.1/47

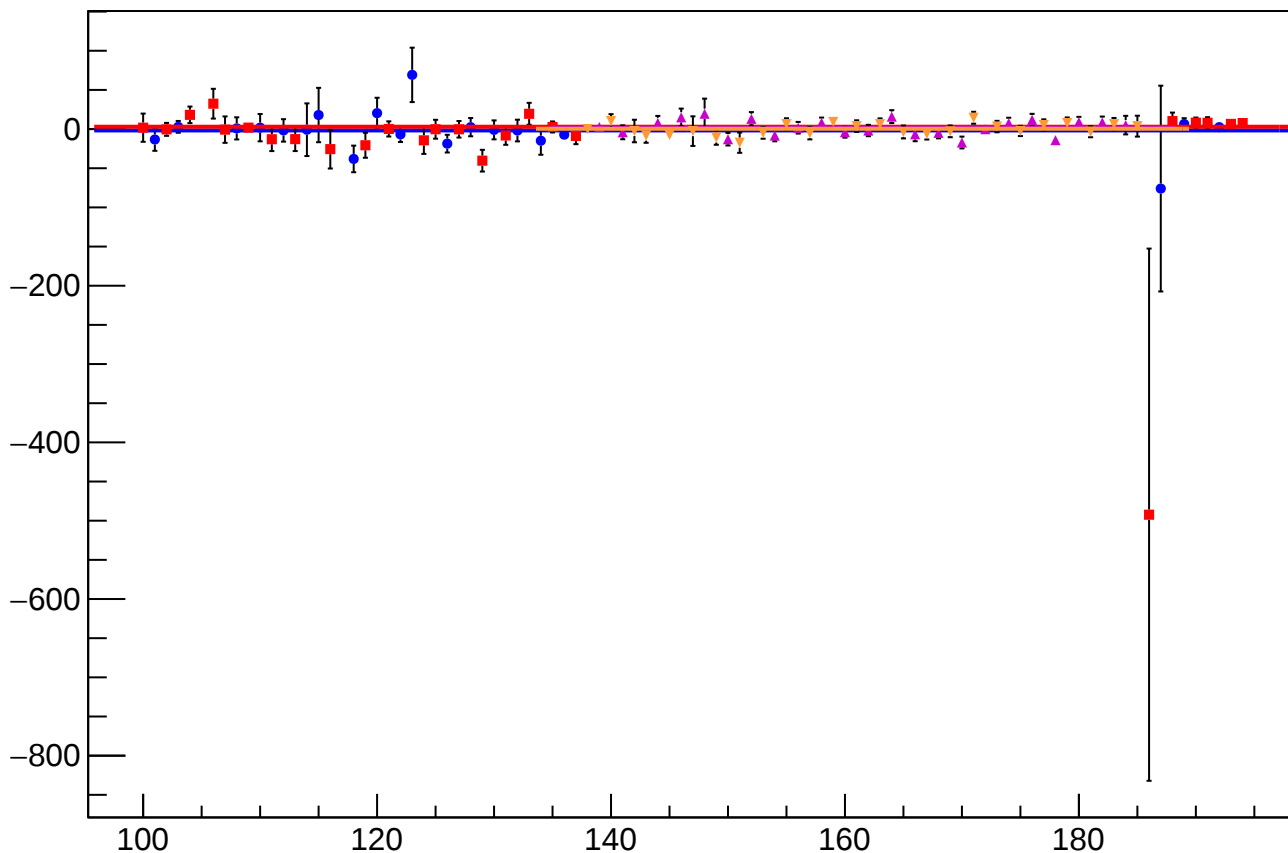
Right: 12343.906+/-2.053 χ^2/NDF : 1216548.5/44

In: 12342.784+/-1.762 χ^2/NDF : 1839573.3/42

Out: 12397.694+/-1.669 χ^2/NDF : 2238043.3/49

All: 12371.721+/-1.212 χ^2/NDF : 4078128.5/95

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -1.736 ± 2.225 $\chi^2/\text{NDF}: 18.4/19$

Left Out: 0.410 ± 1.435 $\chi^2/\text{NDF}: 19.3/24$

Right Out: 3.002 ± 1.796 $\chi^2/\text{NDF}: 30.3/24$

Left In: 1.278 ± 1.386 $\chi^2/\text{NDF}: 34.0/22$

Left: 0.859 ± 0.997 $\chi^2/\text{NDF}: 53.5/47$

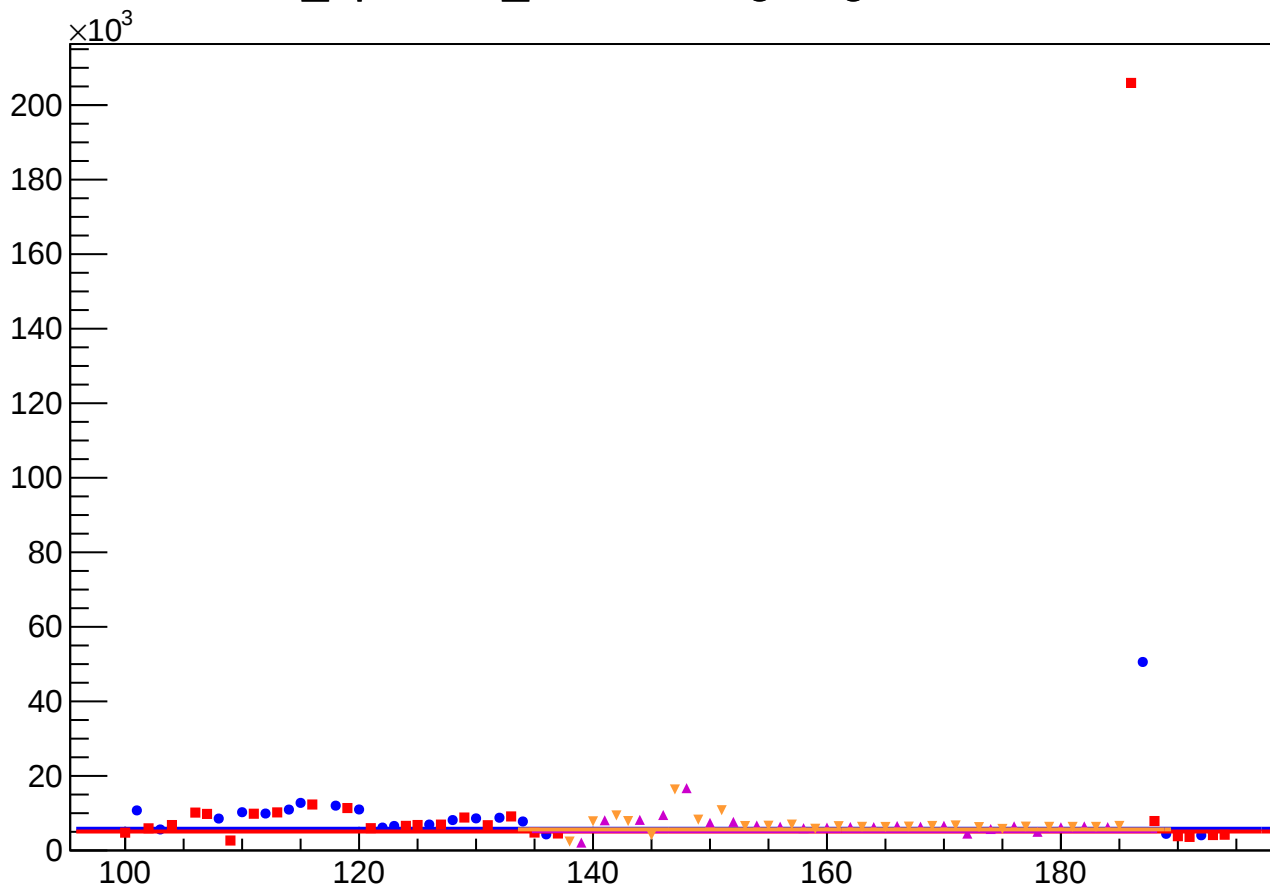
Right: 1.133 ± 1.397 $\chi^2/\text{NDF}: 51.4/44$

In: 0.436 ± 1.176 $\chi^2/\text{NDF}: 53.7/42$

Out: 1.420 ± 1.121 $\chi^2/\text{NDF}: 50.9/49$

All: 0.952 ± 0.811 $\chi^2/\text{NDF}: 104.9/92$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5820.830 $\pm$ 1.573 χ^2/NDF : 2292168.3/19

Left Out: 5655.639 $\pm$ 1.014 χ^2/NDF : 4124124.3/24

Right Out: 5081.316 $\pm$ 1.270 χ^2/NDF : 3446315.2/24

Left In: 5180.743 $\pm$ 0.980 χ^2/NDF : 5350053.6/22

Left: 5409.966 $\pm$ 0.705 χ^2/NDF : 9587556.1/47

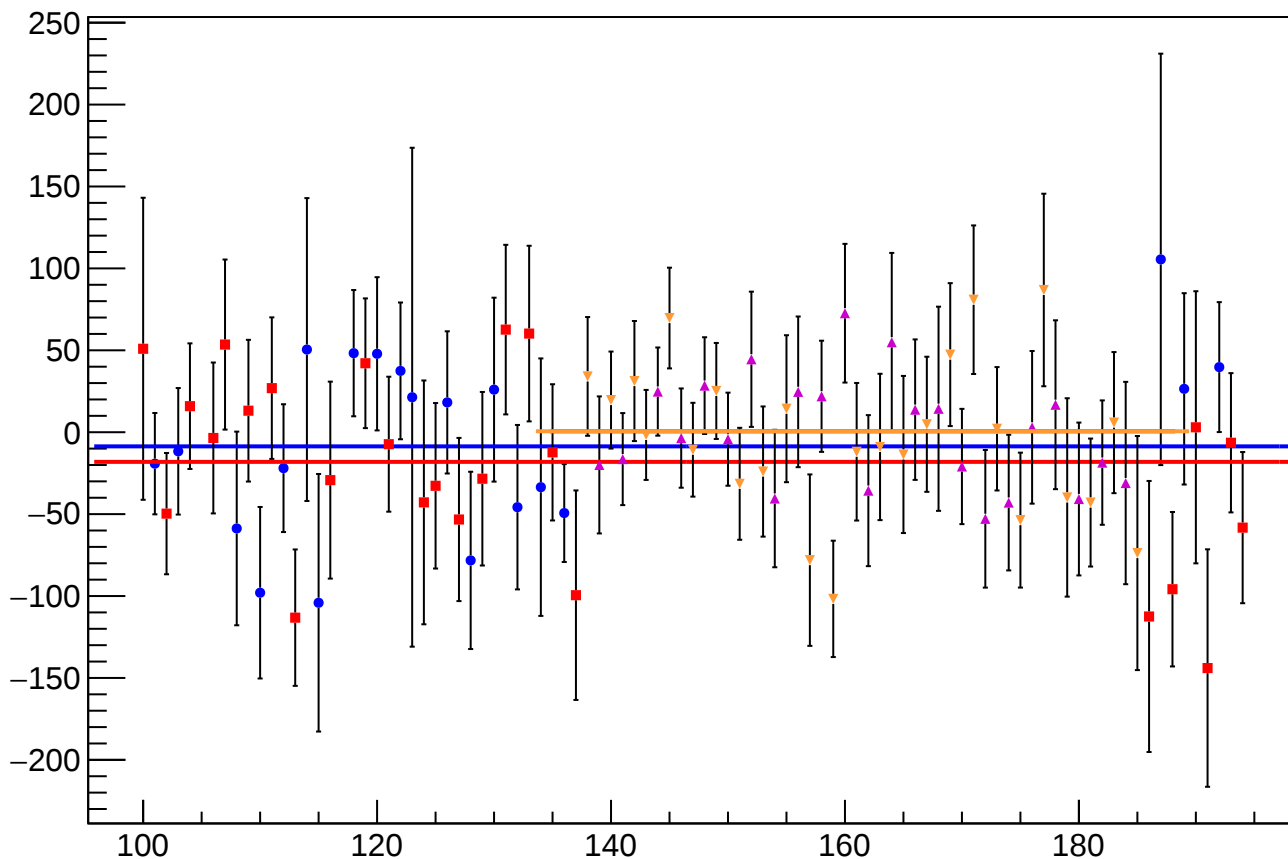
Right: 5373.025 $\pm$ 0.988 χ^2/NDF : 5872281.2/44

In: 5359.645 $\pm$ 0.832 χ^2/NDF : 7761490.7/42

Out: 5431.891 $\pm$ 0.793 χ^2/NDF : 7695318.6/49

All: 5397.509 $\pm$ 0.574 χ^2/NDF : 15460763.7/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.637 ± 10.593 χ^2/NDF : 18.2/19

Left Out: 0.580 ± 7.691 χ^2/NDF : 31.0/24

Right Out: -18.095 ± 9.828 χ^2/NDF : 28.2/24

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

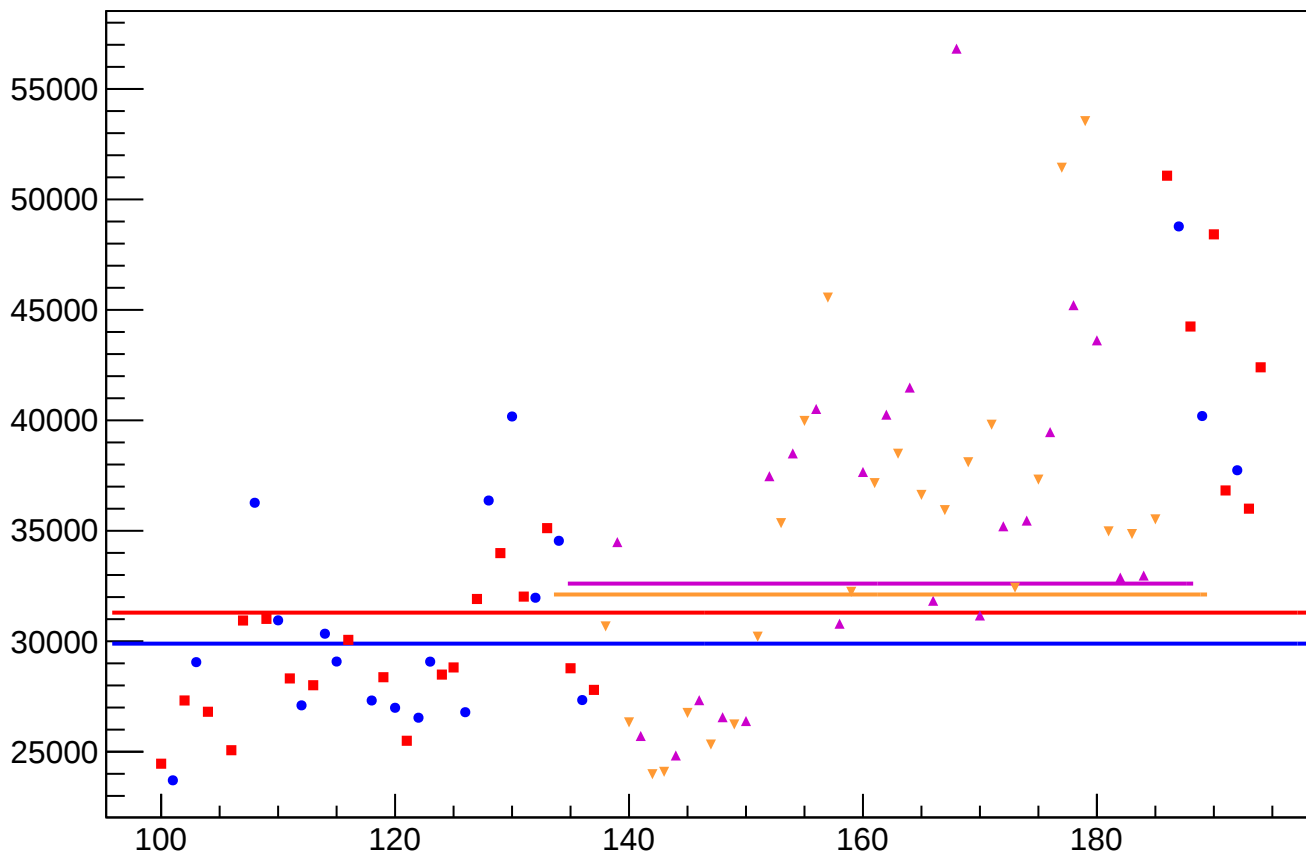
Right: -13.719 ± 7.205 χ^2/NDF : 46.9/44

In: -2.785 ± 6.391 χ^2/NDF : 33.0/42

Out: -6.512 ± 6.057 χ^2/NDF : 61.4/49

All: -4.749 ± 4.396 χ^2/NDF : 94.6/92

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29892.591+/-7.490

χ^2/NDF : 462029.5/19

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 31295.958+/-6.950

χ^2/NDF : 710865.8/24

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483+/-3.924 χ^2/NDF : 2939154.5/47

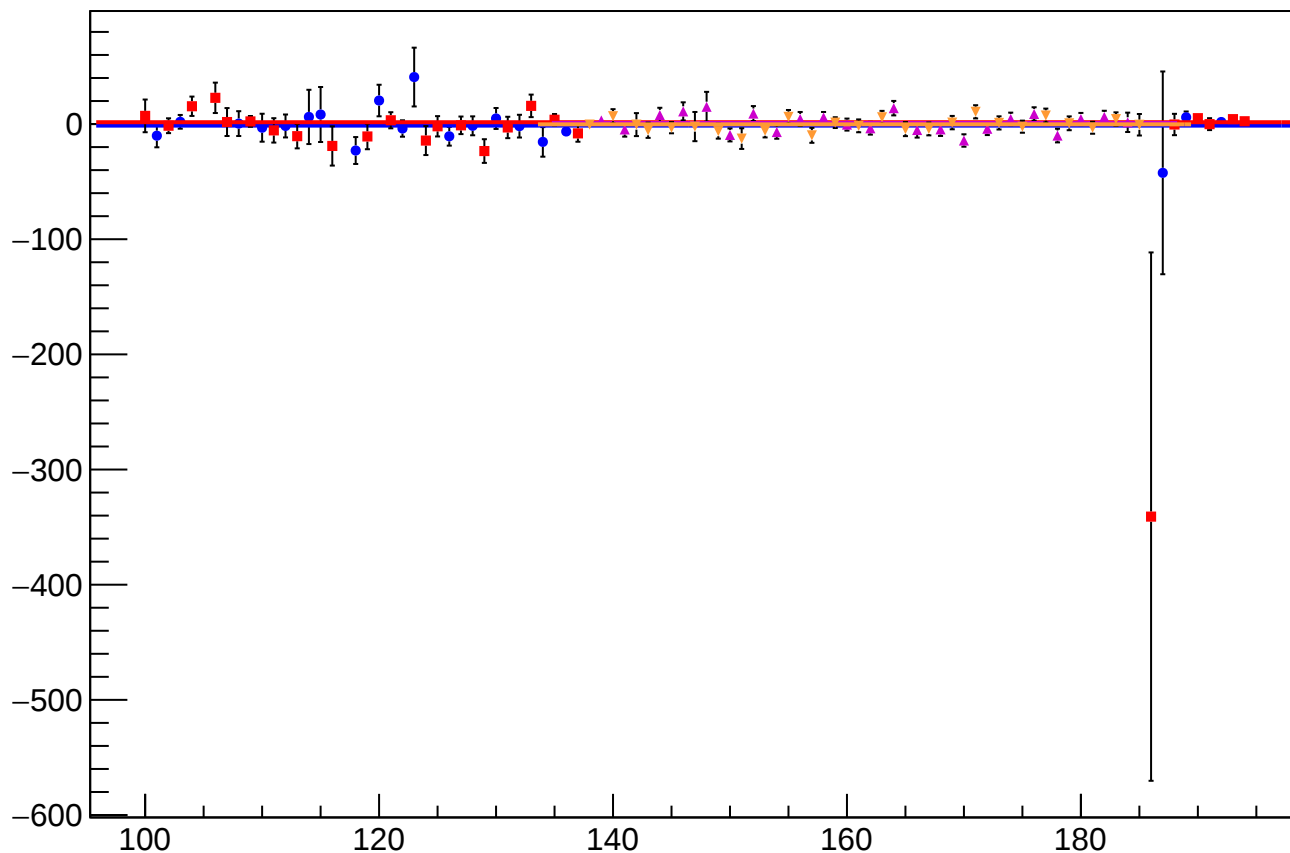
Right: 30646.736+/-5.095 χ^2/NDF : 1191759.3/44

In: 31620.805+/-4.519 χ^2/NDF : 1944215.5/42

Out: 31805.311+/-4.283 χ^2/NDF : 2256266.4/49

All: 31718.014+/-3.109 χ^2/NDF : 4201360.1/9

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.352 ± 1.603 χ^2/NDF : 18.7/19

Left Out: -0.255 ± 1.173 χ^2/NDF : 18.0/24

Right Out: 1.593 ± 1.325 χ^2/NDF : 26.2/24

Left In: 0.925 ± 1.154 χ^2/NDF : 36.1/22

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

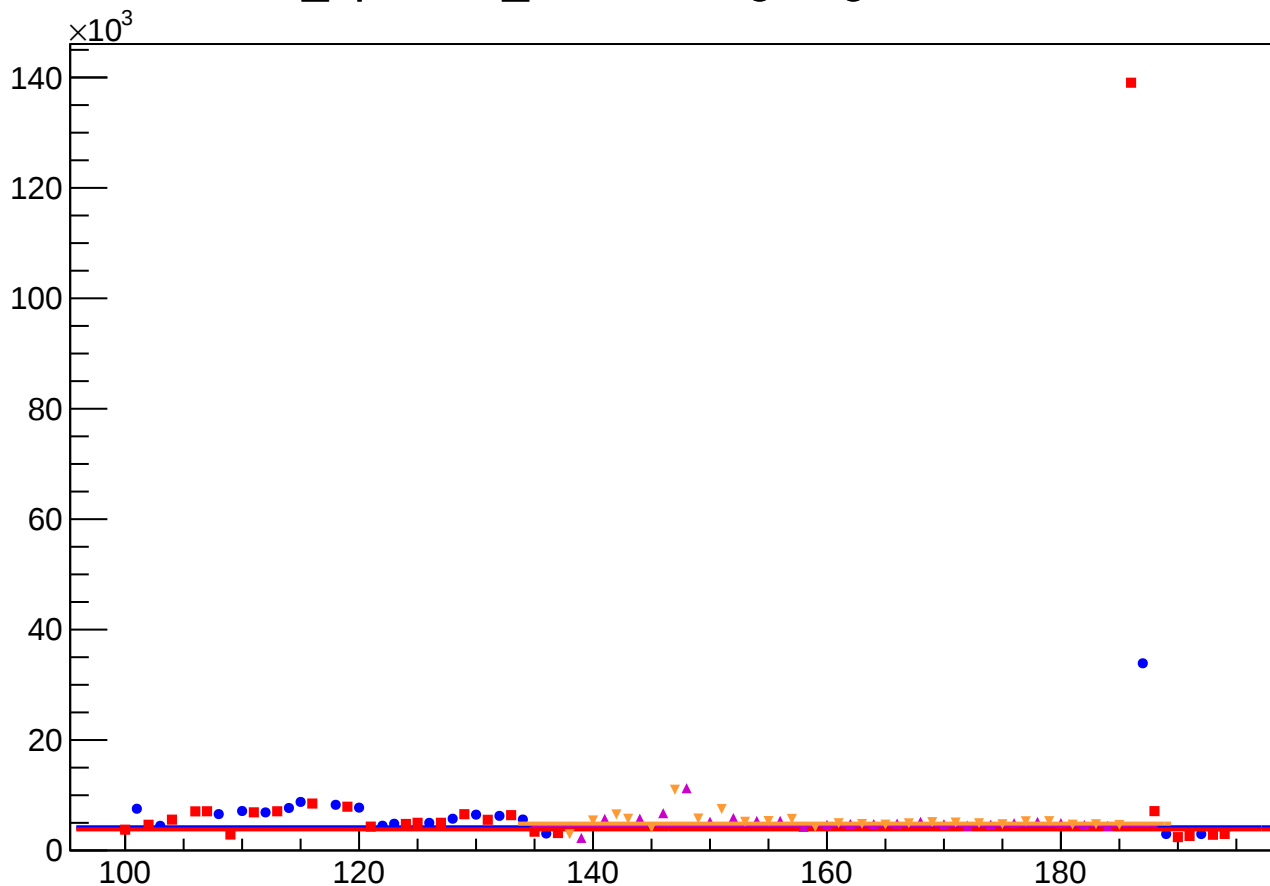
Right: 0.398 ± 1.021 χ^2/NDF : 46.9/44

In: 0.149 ± 0.936 χ^2/NDF : 56.2/42

Out: 0.557 ± 0.878 χ^2/NDF : 45.3/49

All: 0.366 ± 0.641 χ^2/NDF : 101.6/92

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4200.170+/-1.134 χ^2/NDF : 2298699.8/19

Left Out: 4866.528+/-0.829 χ^2/NDF : 1511486.2/24

Right Out: 3810.535+/-0.937 χ^2/NDF : 3329988.4/24

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

Left: 4722.017+/-0.582 χ^2/NDF : 4049906.1/47

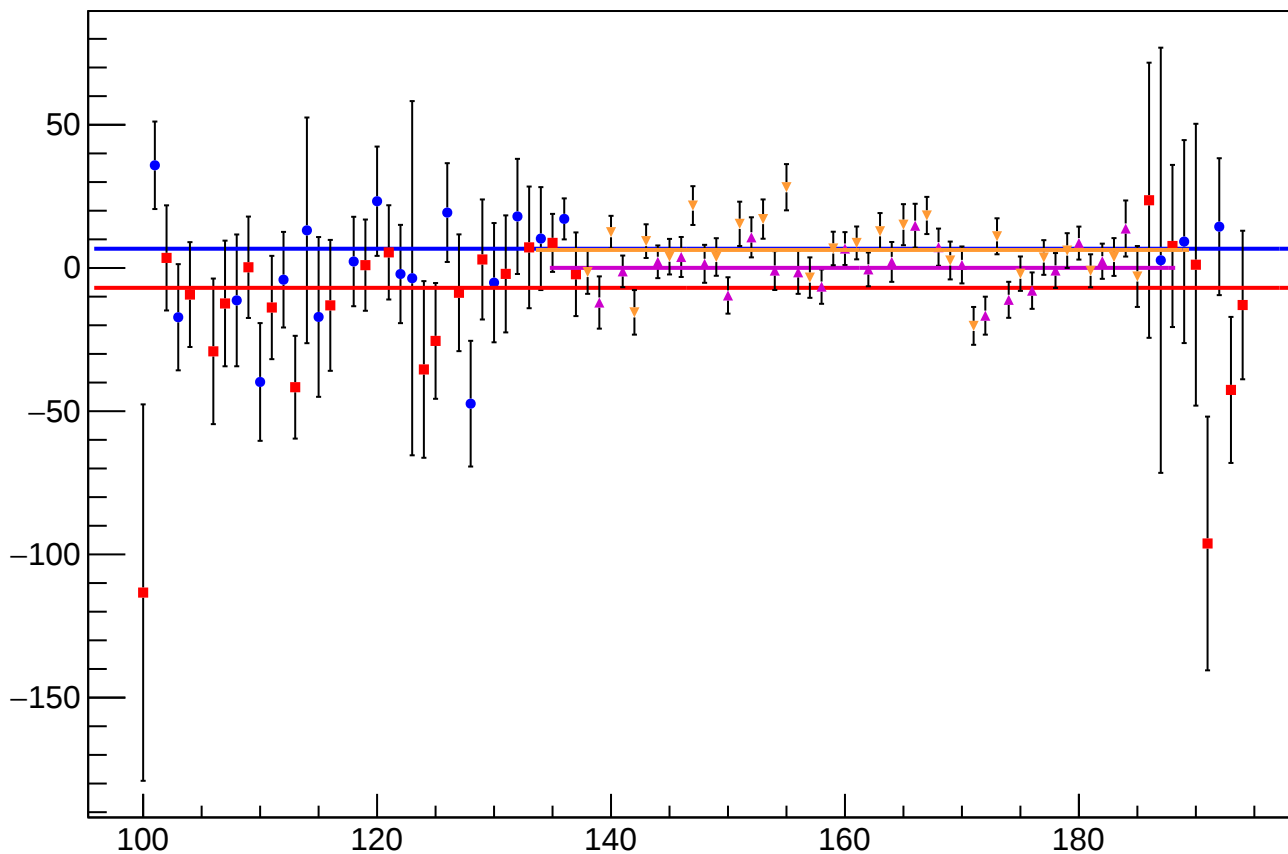
Right: 3968.635+/-0.722 χ^2/NDF : 5698873.7/44

In: 4451.873+/-0.662 χ^2/NDF : 4852188.7/42

Out: 4402.570+/-0.621 χ^2/NDF : 5553780.3/49

All: 4425.640+/-0.453 χ^2/NDF : 10408918.6/95

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.726 ± 3.983 $\chi^2/\text{NDF}: 22.9/19$

Left Out: 6.302 ± 1.313 $\chi^2/\text{NDF}: 56.7/24$

Right Out: -6.930 ± 4.029 $\chi^2/\text{NDF}: 20.4/24$

Left In: 0.044 ± 1.358 $\chi^2/\text{NDF}: 30.0/22$

Left: 3.279 ± 0.944 $\chi^2/\text{NDF}: 97.7/47$

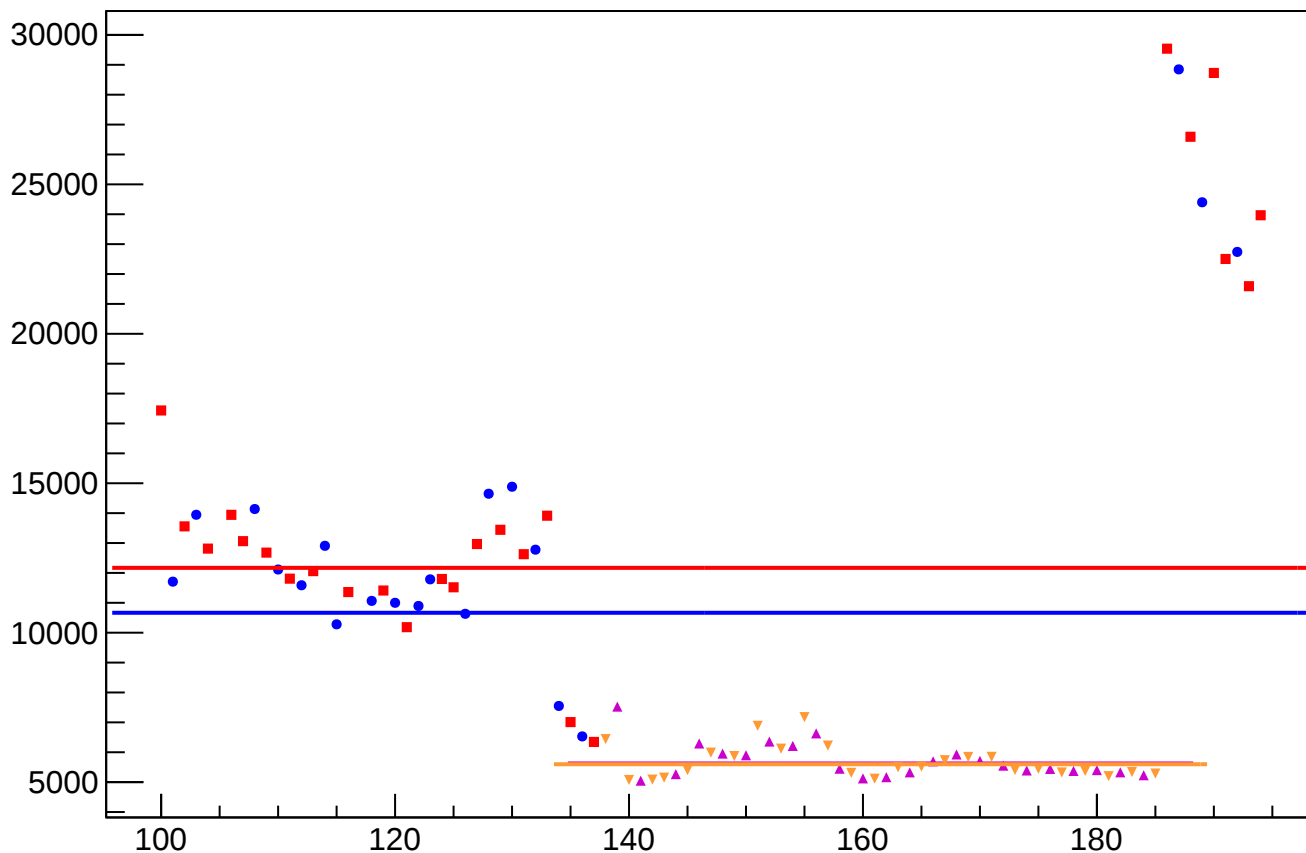
Right: -0.024 ± 2.833 $\chi^2/\text{NDF}: 49.1/44$

In: 0.740 ± 1.285 $\chi^2/\text{NDF}: 55.4/42$

Out: 5.032 ± 1.248 $\chi^2/\text{NDF}: 86.9/49$

All: 2.949 ± 0.895 $\chi^2/\text{NDF}: 148.0/92$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10666.609 $\pm$ 2.816 χ^2 /NDF: 1971829.4/19

Left Out: 5598.786 $\pm$ 0.928 χ^2 /NDF: 283253.4/24

Right Out: 12169.868 $\pm$ 2.849 χ^2 /NDF: 2746362.6/24

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

Left: 5611.528 $\pm$ 0.667 χ^2 /NDF: 556207.1/47

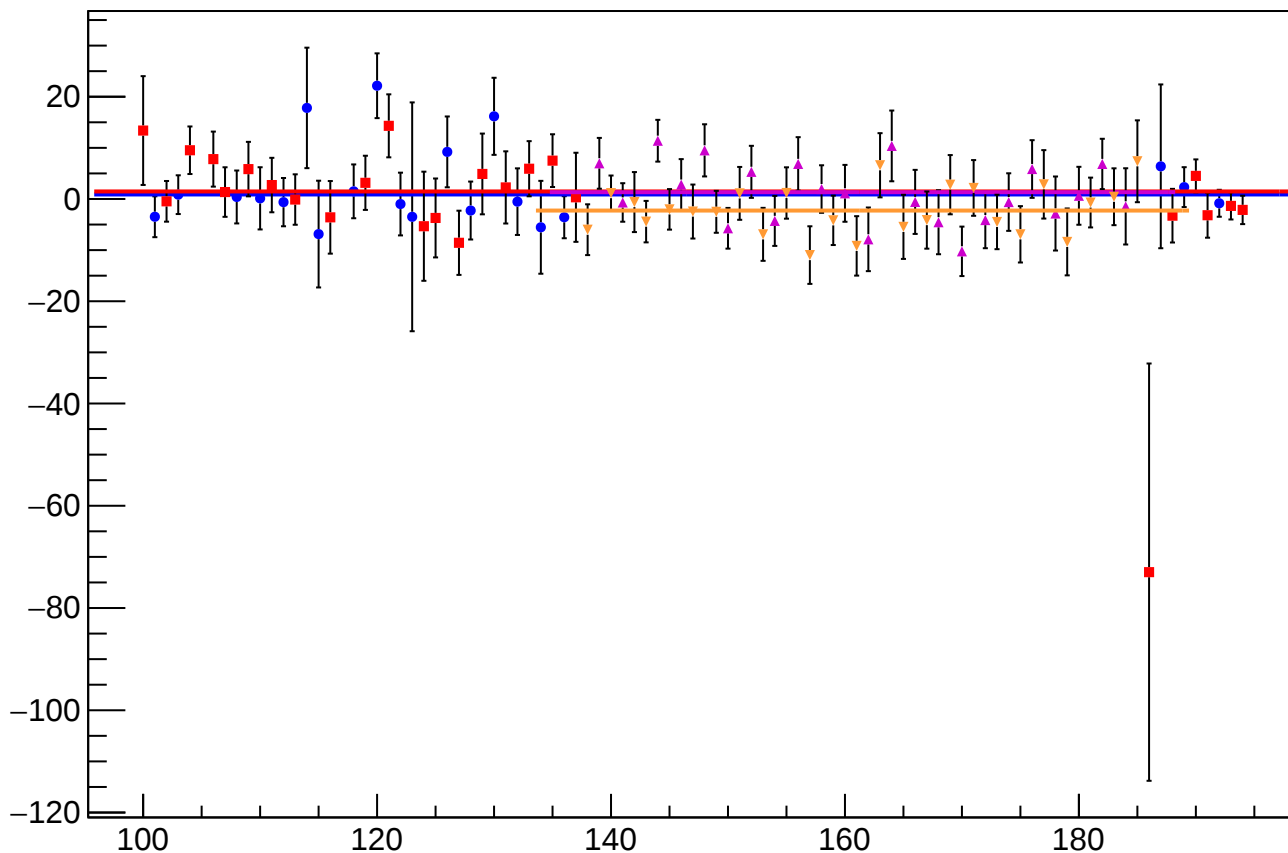
Right: 11409.588 $\pm$ 2.003 χ^2 /NDF: 4858993.8/44

In: 6149.983 $\pm$ 0.909 χ^2 /NDF: 5114958.6/42

Out: 6229.219 $\pm$ 0.882 χ^2 /NDF: 7838806.3/49

All: 6190.762 $\pm$ 0.633 χ^2 /NDF: 12957677.9/95

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.885 ± 1.174 $\chi^2/\text{NDF}: 23.6/19$

Left Out: -2.262 ± 1.030 $\chi^2/\text{NDF}: 15.5/24$

Right Out: 1.474 ± 0.992 $\chi^2/\text{NDF}: 26.3/24$

Left In: 1.328 ± 1.082 $\chi^2/\text{NDF}: 30.6/22$

Left: -0.555 ± 0.746 $\chi^2/\text{NDF}: 51.9/47$

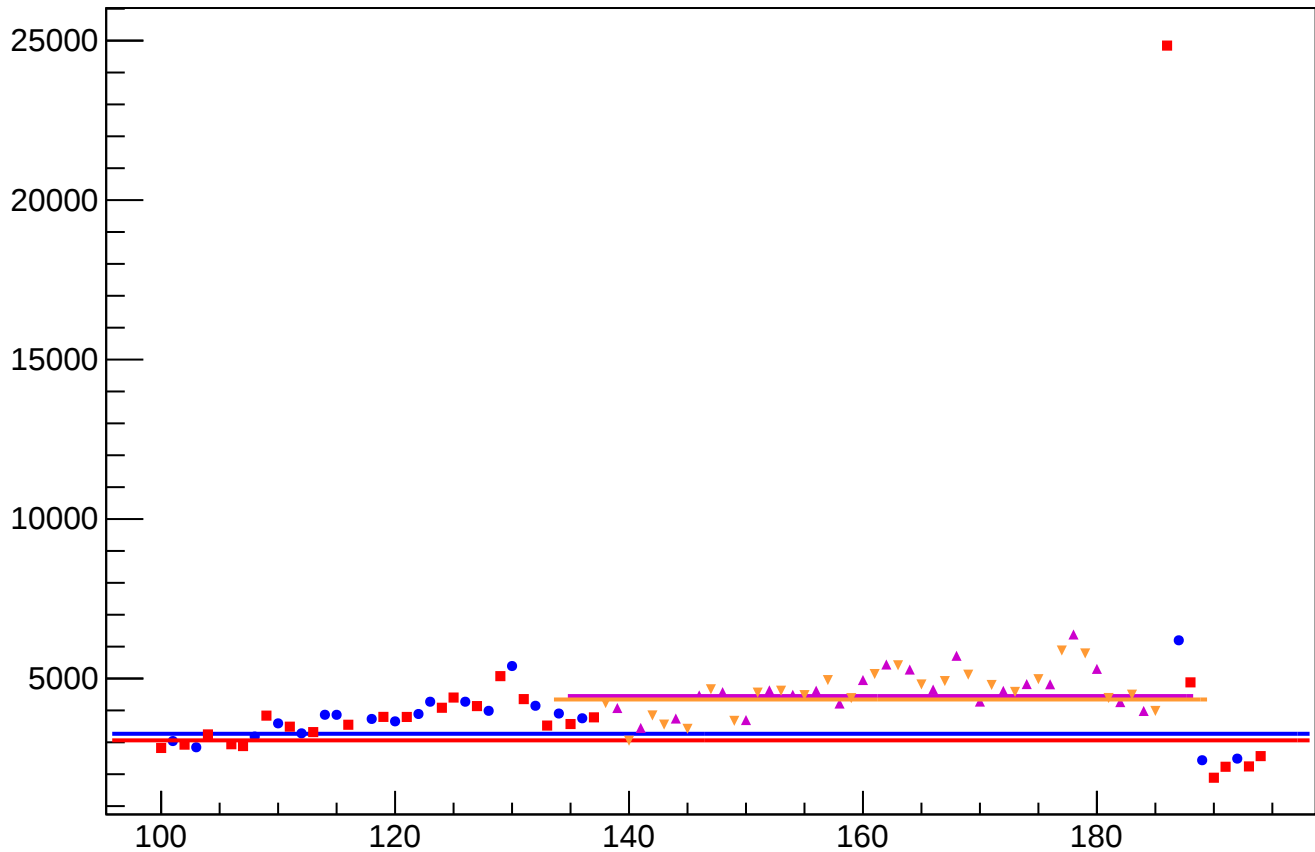
Right: 1.229 ± 0.758 $\chi^2/\text{NDF}: 50.1/44$

In: 1.125 ± 0.796 $\chi^2/\text{NDF}: 54.3/42$

Out: -0.323 ± 0.714 $\chi^2/\text{NDF}: 48.6/49$

All: 0.323 ± 0.532 $\chi^2/\text{NDF}: 104.8/92$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3267.471+/-0.830 χ^2/NDF : 736249.2/19

Left Out: 4342.635+/-0.728 χ^2/NDF : 993035.5/24

Right Out: 3061.209+/-0.701 χ^2/NDF : 1927730.4/24

Left In: 4450.007+/-0.765 χ^2/NDF : 693229.8/22

Left: 4393.686+/-0.528 χ^2/NDF : 1696596.0/47

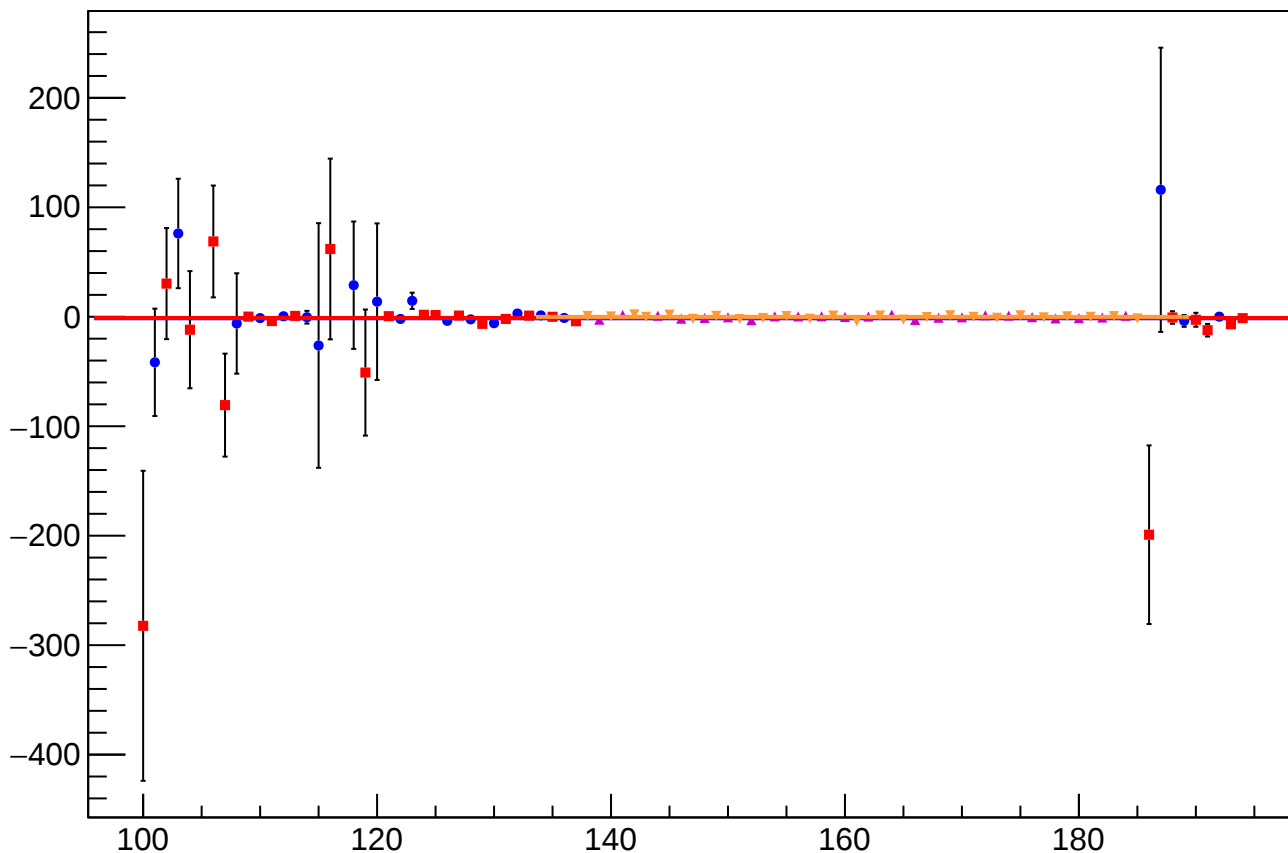
Right: 3147.086+/-0.536 χ^2/NDF : 2700007.2/44

In: 3906.914+/-0.563 χ^2/NDF : 2526606.4/42

Out: 3677.518+/-0.505 χ^2/NDF : 4527064.0/49

All: 3779.910+/-0.376 χ^2/NDF : 7145711.7/92

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.368 ± 0.725 χ^2/NDF : 17.9/19

Left Out: -0.092 ± 0.249 χ^2/NDF : 34.4/24

Right Out: -1.095 ± 0.671 χ^2/NDF : 34.1/24

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

Left: -0.173 ± 0.179 χ^2/NDF : 61.9/47

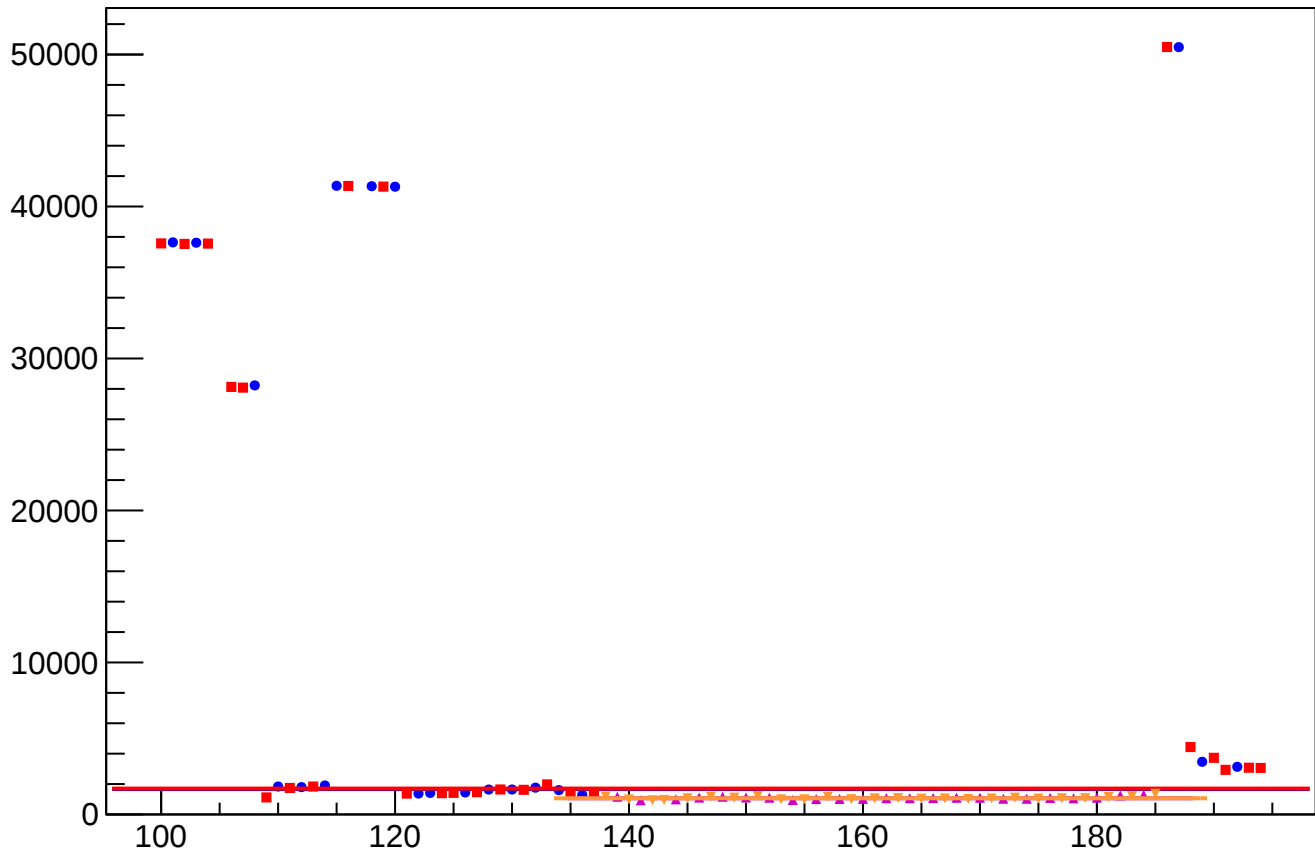
Right: -1.221 ± 0.493 χ^2/NDF : 52.1/44

In: -0.383 ± 0.242 χ^2/NDF : 47.2/42

Out: -0.213 ± 0.233 χ^2/NDF : 70.5/49

All: -0.295 ± 0.168 χ^2/NDF : 118.0/92

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1672.673 ± 0.513 $\chi^2/\text{NDF}: 5694833.0/19$

Left Out: 1064.701 ± 0.176 $\chi^2/\text{NDF}: 186511.5/24$

Right Out: 1702.573 ± 0.475 $\chi^2/\text{NDF}: 7148528.8/24$

Left In: 1066.255 ± 0.182 $\chi^2/\text{NDF}: 164232.1/22$

Left: 1065.454 ± 0.126 $\chi^2/\text{NDF}: 350781.3/47$

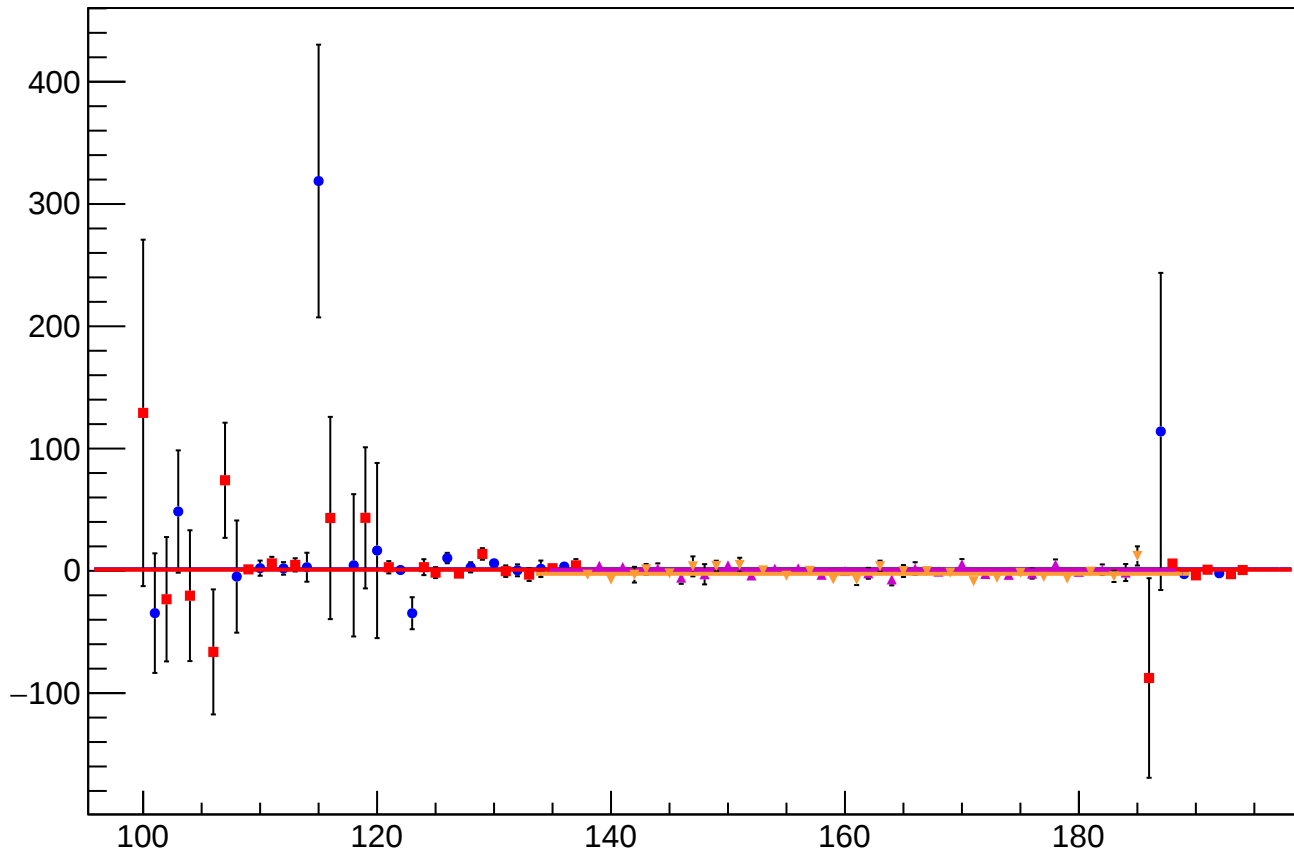
Right: 1688.776 ± 0.348 $\chi^2/\text{NDF}: 12845192.7/44$

In: 1133.895 ± 0.171 $\chi^2/\text{NDF}: 7101467.9/42$

Out: 1141.875 ± 0.165 $\chi^2/\text{NDF}: 8922413.6/49$

All: 1138.031 ± 0.119 $\chi^2/\text{NDF}: 16025006.5/99$

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 1.305+/-1.064 χ^2/NDF : 28.9/19

Left Out: -2.422+/-0.811 χ^2/NDF : 21.2/24

Right Out: 0.944+/-0.890 χ^2/NDF : 24.8/24

Left In: 0.468+/-0.843 χ^2/NDF : 15.5/22

Left: -1.033+/-0.584 χ^2/NDF : 42.8/47

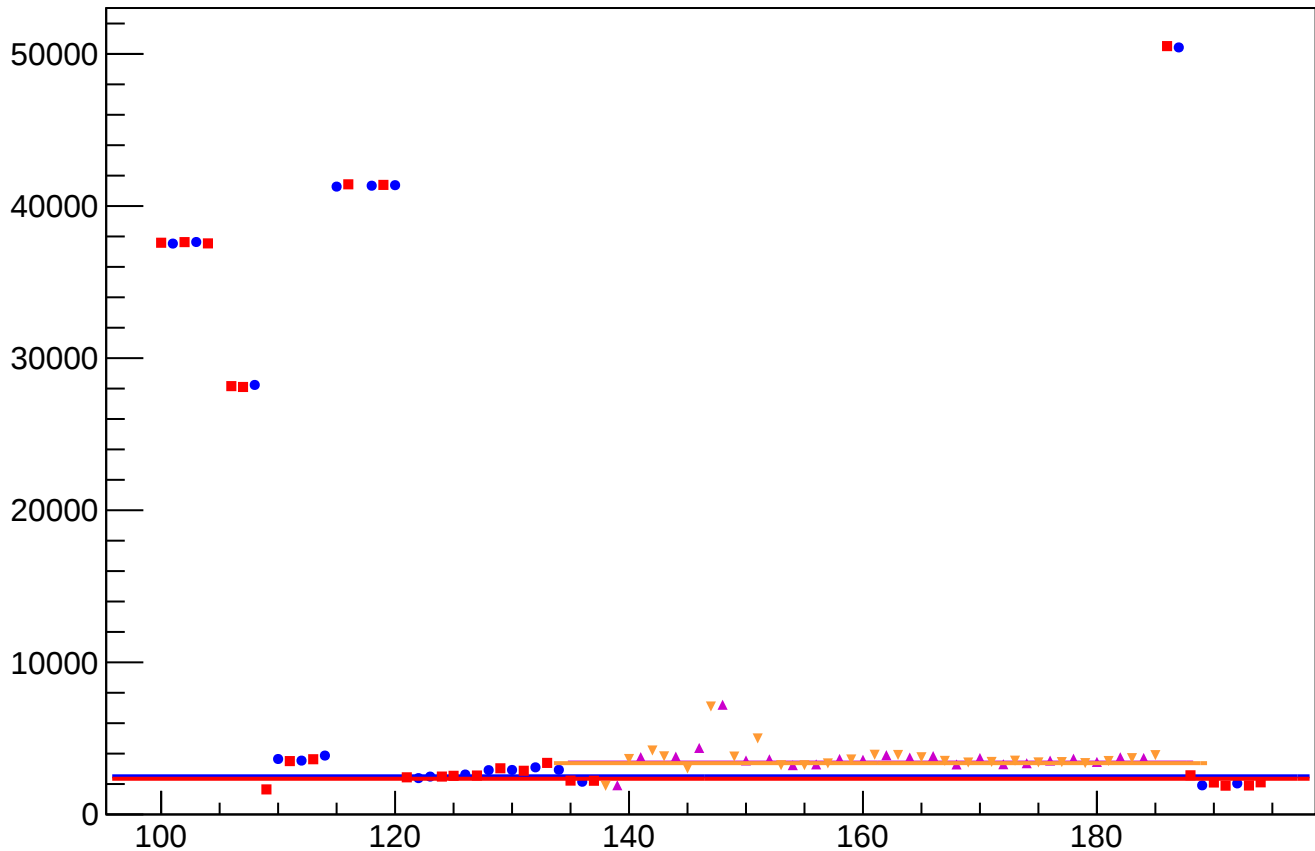
Right: 1.093+/-0.683 χ^2/NDF : 53.8/44

In: 0.791+/-0.661 χ^2/NDF : 44.8/42

Out: -0.895+/-0.599 χ^2/NDF : 53.8/49

All: -0.134+/-0.444 χ^2/NDF : 102.2/92

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2508.174+/-0.752 χ^2/NDF : 5102524.2/19

Left Out: 3372.958+/-0.573 χ^2/NDF : 1656864.7/24

Right Out: 2347.125+/-0.629 χ^2/NDF : 5770203.6/24

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

Left: 3391.680+/-0.413 χ^2/NDF : 3093609.1/47

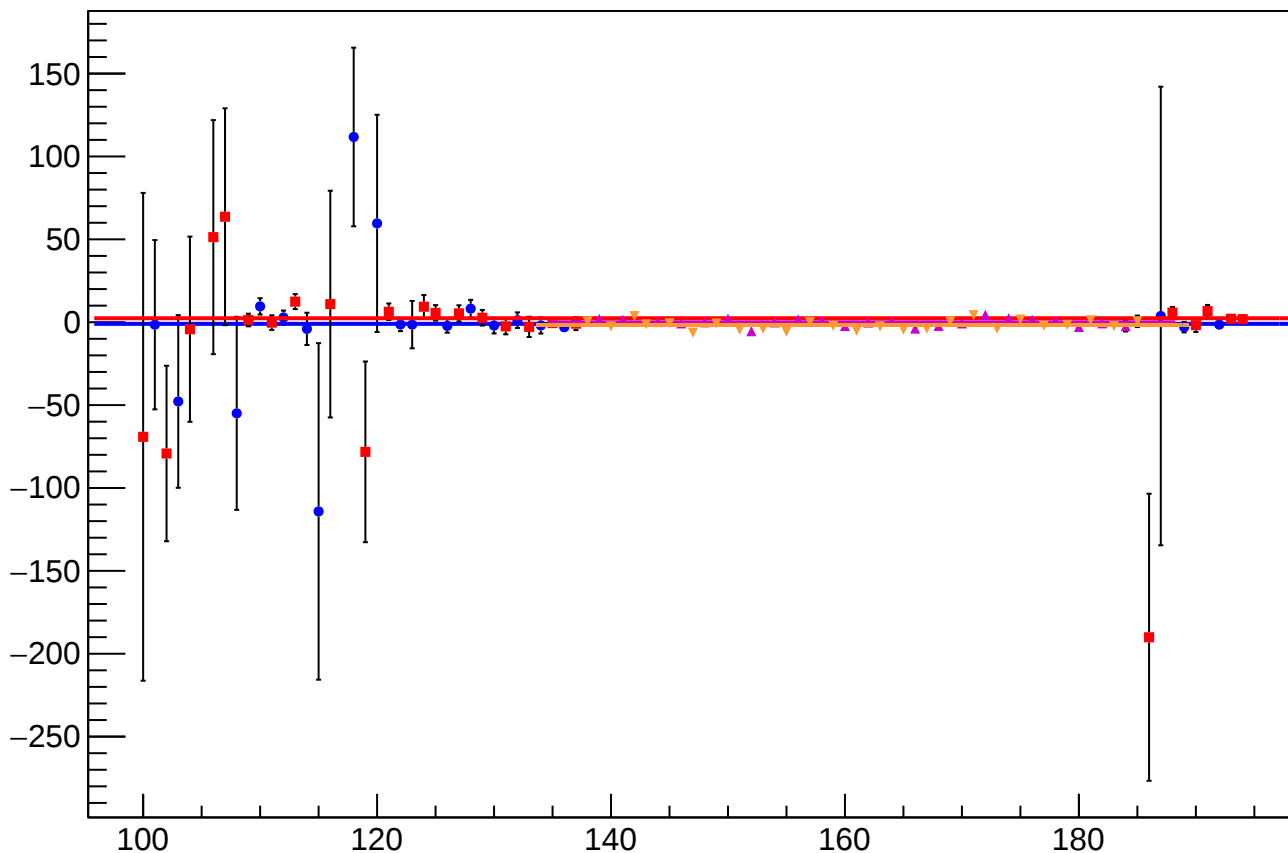
Right: 2413.418+/-0.483 χ^2/NDF : 10899696.1/44

In: 3063.399+/-0.467 χ^2/NDF : 7423811.7/42

Out: 2907.764+/-0.424 χ^2/NDF : 8879811.5/49

All: 2978.011+/-0.314 χ^2/NDF : 16364522.3/95

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.980 ± 0.990 χ^2/NDF : 18.6/19

Left Out: -1.672 ± 0.388 χ^2/NDF : 45.7/24

Right Out: 2.395 ± 0.875 χ^2/NDF : 26.0/24

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

Left: -0.898 ± 0.279 χ^2/NDF : 82.1/47

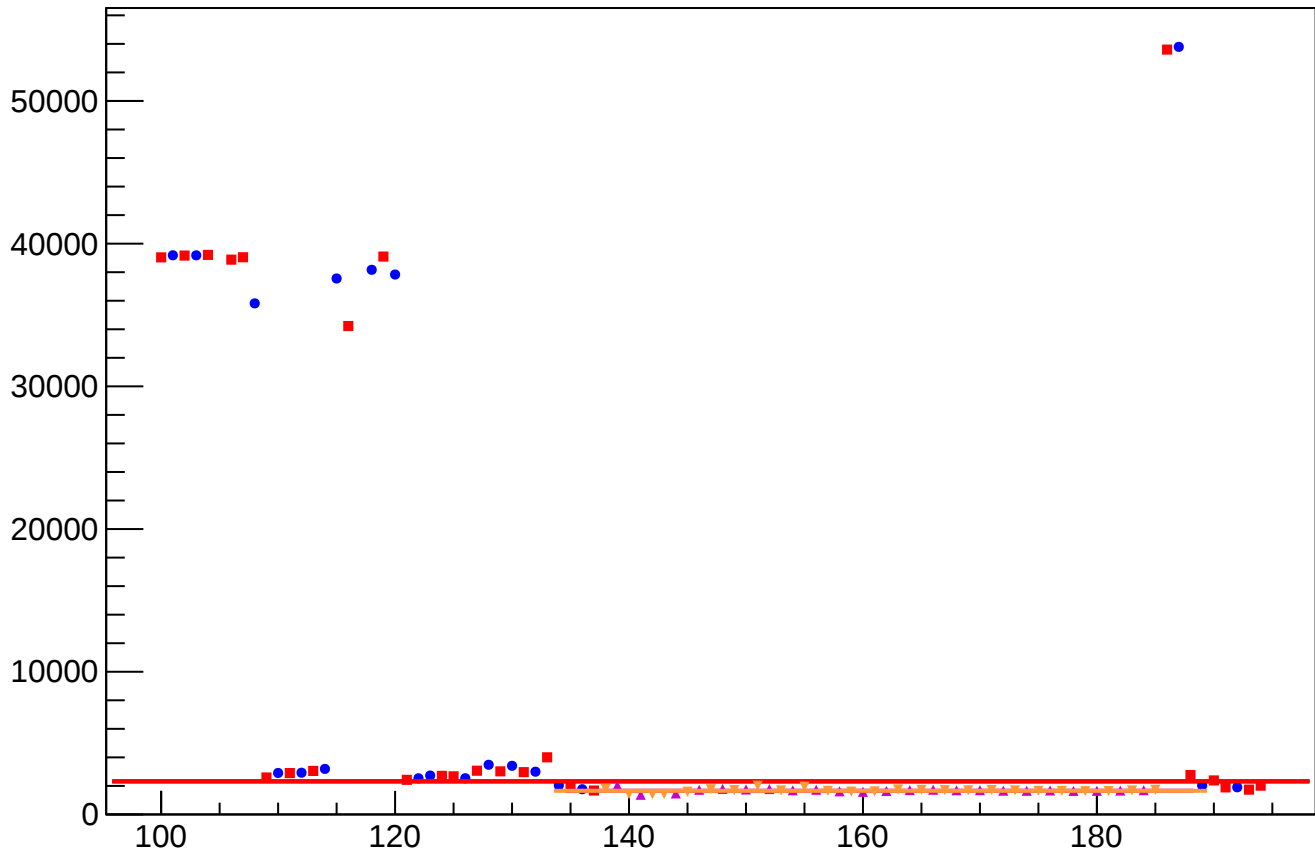
Right: 0.914 ± 0.656 χ^2/NDF : 51.1/44

In: -0.200 ± 0.372 χ^2/NDF : 47.5/42

Out: -1.004 ± 0.355 χ^2/NDF : 89.8/49

All: -0.621 ± 0.257 χ^2/NDF : 139.7/92

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2307.676 $\pm$ 0.700 χ^2 /NDF: 5310397.9/19

Left Out: 1657.770 $\pm$ 0.274 χ^2 /NDF: 223465.3/24

Right Out: 2335.735 $\pm$ 0.619 χ^2 /NDF: 5948187.1/24

Left In: 1663.620 $\pm$ 0.284 χ^2 /NDF: 178858.2/22

Left: 1660.599 $\pm$ 0.197 χ^2 /NDF: 402543.2/47

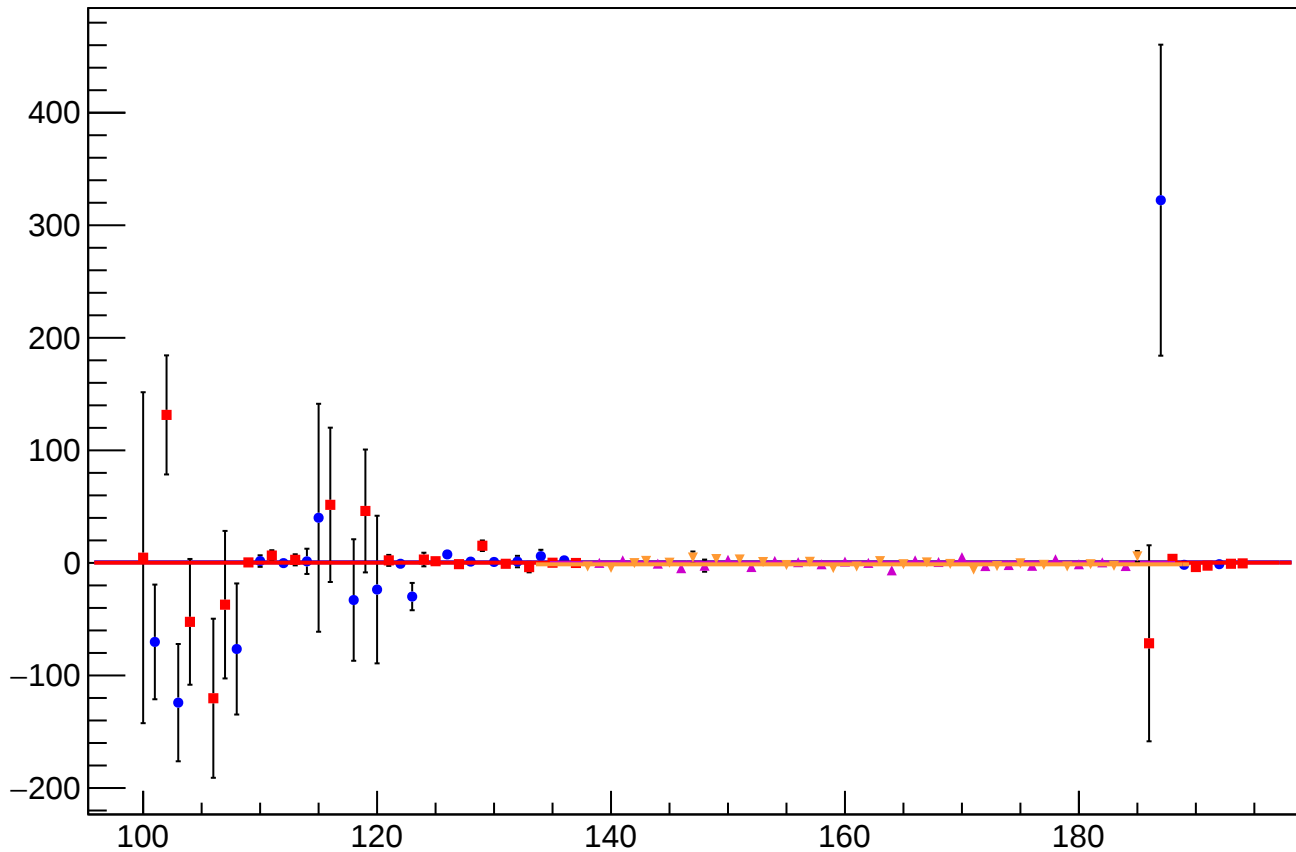
Right: 2323.423 $\pm$ 0.464 χ^2 /NDF: 11259487.0/44

In: 1754.454 $\pm$ 0.263 χ^2 /NDF: 6216709.6/42

Out: 1769.164 $\pm$ 0.251 χ^2 /NDF: 7174574.4/49

All: 1762.152 $\pm$ 0.181 χ^2 /NDF: 13392923.1/9

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.545 ± 0.900 $\chi^2/\text{NDF}: 28.8/19$

Left Out: -1.251 ± 0.535 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 0.212 ± 0.738 $\chi^2/\text{NDF}: 30.8/24$

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

Left: -0.681 ± 0.380 $\chi^2/\text{NDF}: 43.3/47$

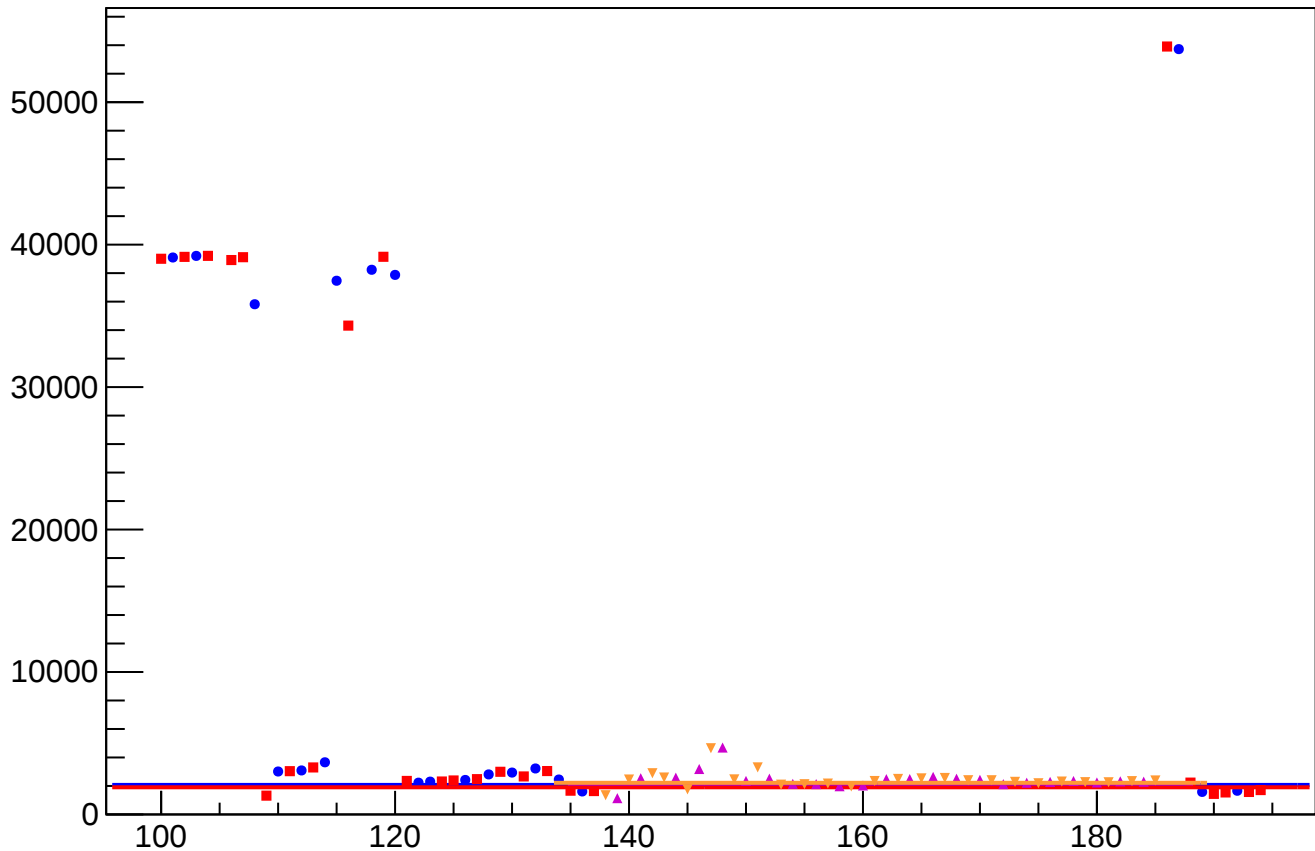
Right: 0.346 ± 0.571 $\chi^2/\text{NDF}: 59.6/44$

In: 0.073 ± 0.464 $\chi^2/\text{NDF}: 48.4/42$

Out: -0.747 ± 0.433 $\chi^2/\text{NDF}: 55.1/49$

All: -0.365 ± 0.317 $\chi^2/\text{NDF}: 105.2/92$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2074.221 $\pm$ 0.636 χ^2 /NDF: 5575145.2/19

Left Out: 2222.081 $\pm$ 0.378 χ^2 /NDF: 1422440.9/24

Right Out: 1906.652 $\pm$ 0.522 χ^2 /NDF: 6333518.7/24

Left In: 2169.443 $\pm$ 0.383 χ^2 /NDF: 1974869.8/22

Left: 2196.064 $\pm$ 0.269 χ^2 /NDF: 3406878.6/47

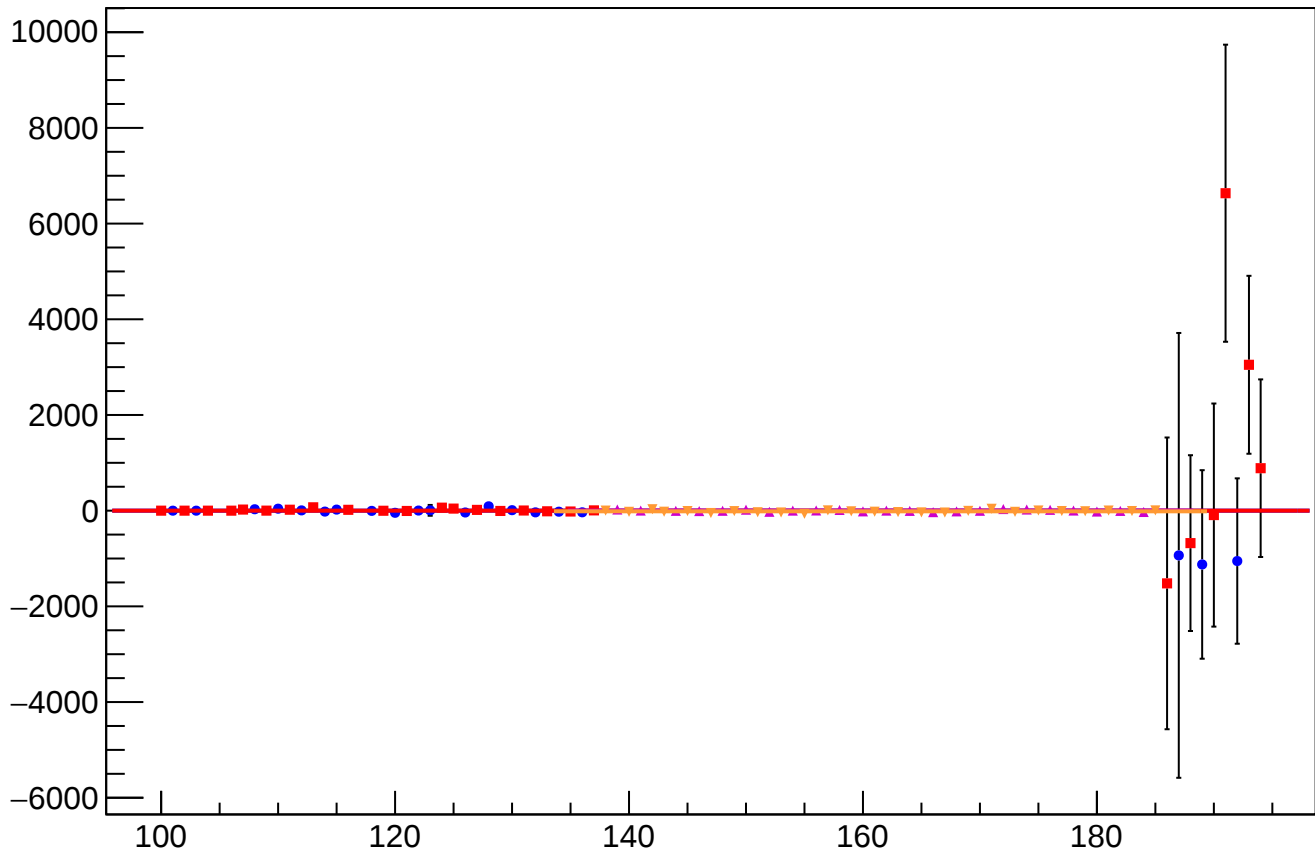
Right: 1974.001 $\pm$ 0.404 χ^2 /NDF: 11950118.5/44

In: 2144.159 $\pm$ 0.328 χ^2 /NDF: 7566453.8/42

Out: 2113.387 $\pm$ 0.306 χ^2 /NDF: 7995490.8/49

All: 2127.722 $\pm$ 0.224 χ^2 /NDF: 15566646.5/99

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 17.3/19

Left Out: -13.484 $\pm$ 2.800 χ^2 /NDF:58.7/24

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 23.4/24

Left In: 0.459 $\pm$ 2.917 χ^2 /NDF:29.0/22

Left: -6.796 $\pm$ 2.020 χ^2 /NDF: 99.5/47

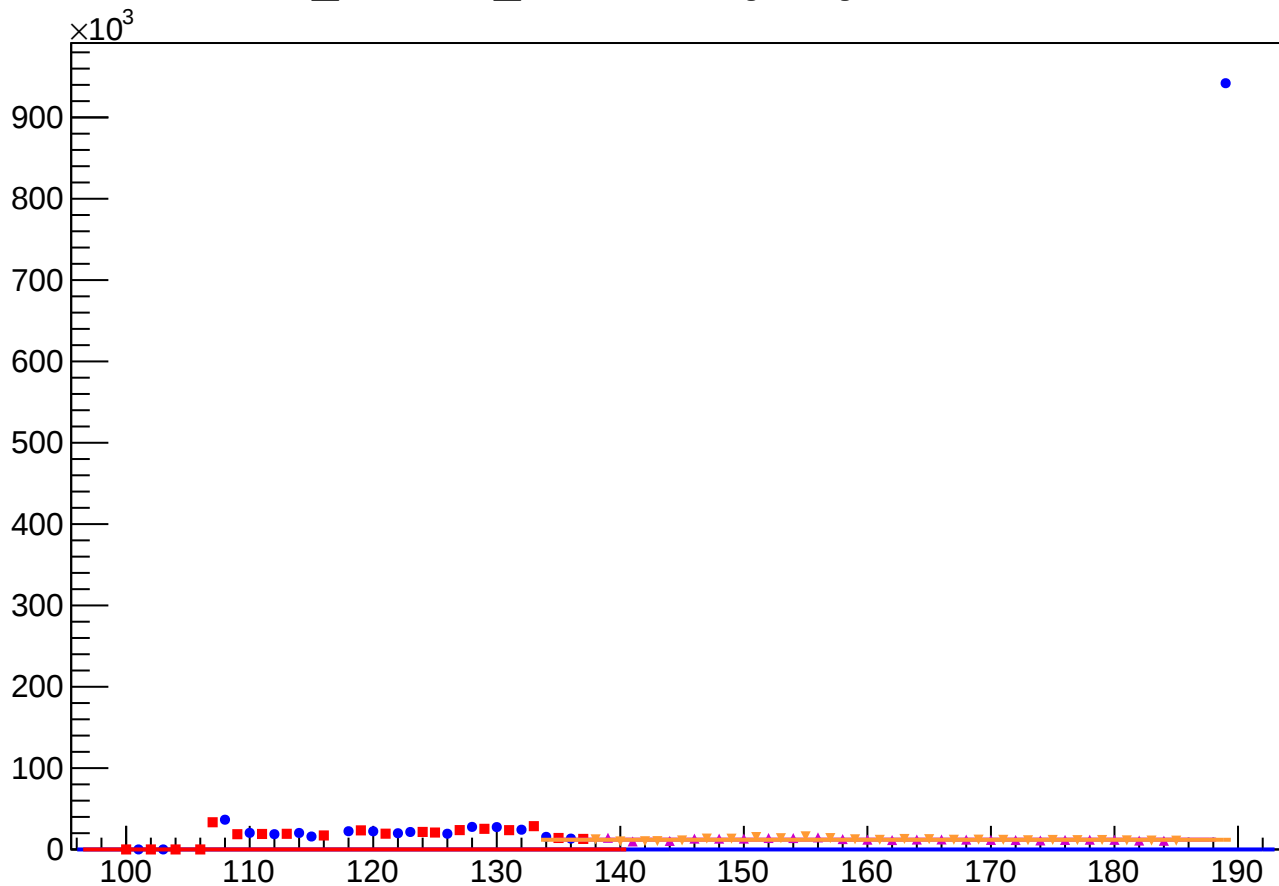
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 41.2/44

In: 0.013 $\pm$ 0.017 χ^2 /NDF:46.3/42

Out: -0.004 $\pm$ 0.016 χ^2 /NDF:105.2/49

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 152.1/92

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641 $\pm$ 0.012 χ^2 /NDF: 11125273.3/17

Left Out: 11910.325 $\pm$ 1.980 χ^2 /NDF: 476504.3/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11063399.8/18

Left In: 12064.761 $\pm$ 2.062 χ^2 /NDF: 368452.5/22

Left: 11984.403 $\pm$ 1.428 χ^2 /NDF: 847874.4/47

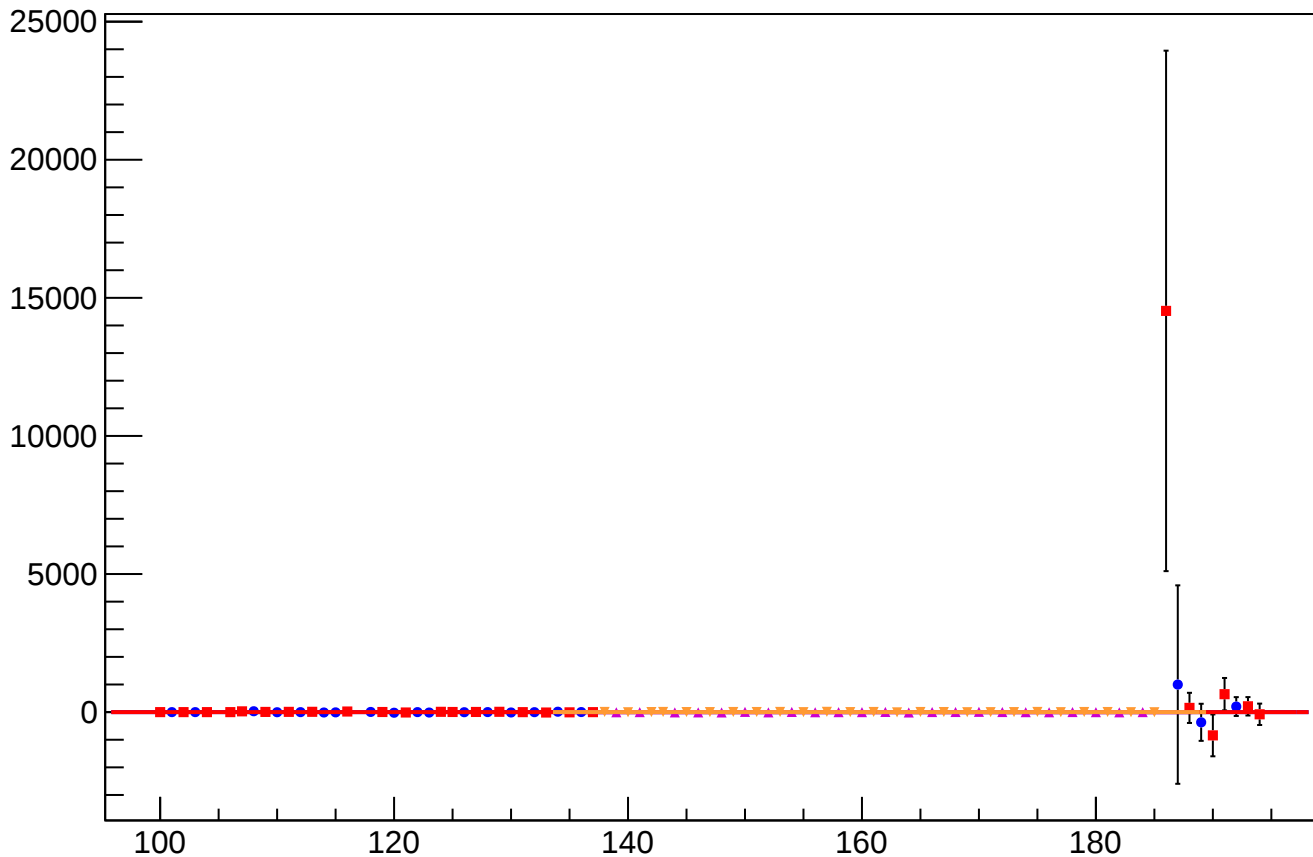
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

In: 19.067 $\pm$ 0.012 χ^2 /NDF: 45607591.7/40

Out: 18.703 $\pm$ 0.011 χ^2 /NDF: 47605245.6/43

All: 18.871 $\pm$ 0.008 χ^2 /NDF: 93213311.5/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 13.6/19

Left Out: 1.649 $\pm$ 1.022 χ^2 /NDF: 18.4/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.1/24

Left In: -0.939 $\pm$ 1.049 χ^2 /NDF: 35.6/22

Left: 0.388 $\pm$ 0.732 χ^2 /NDF: 57.1/47

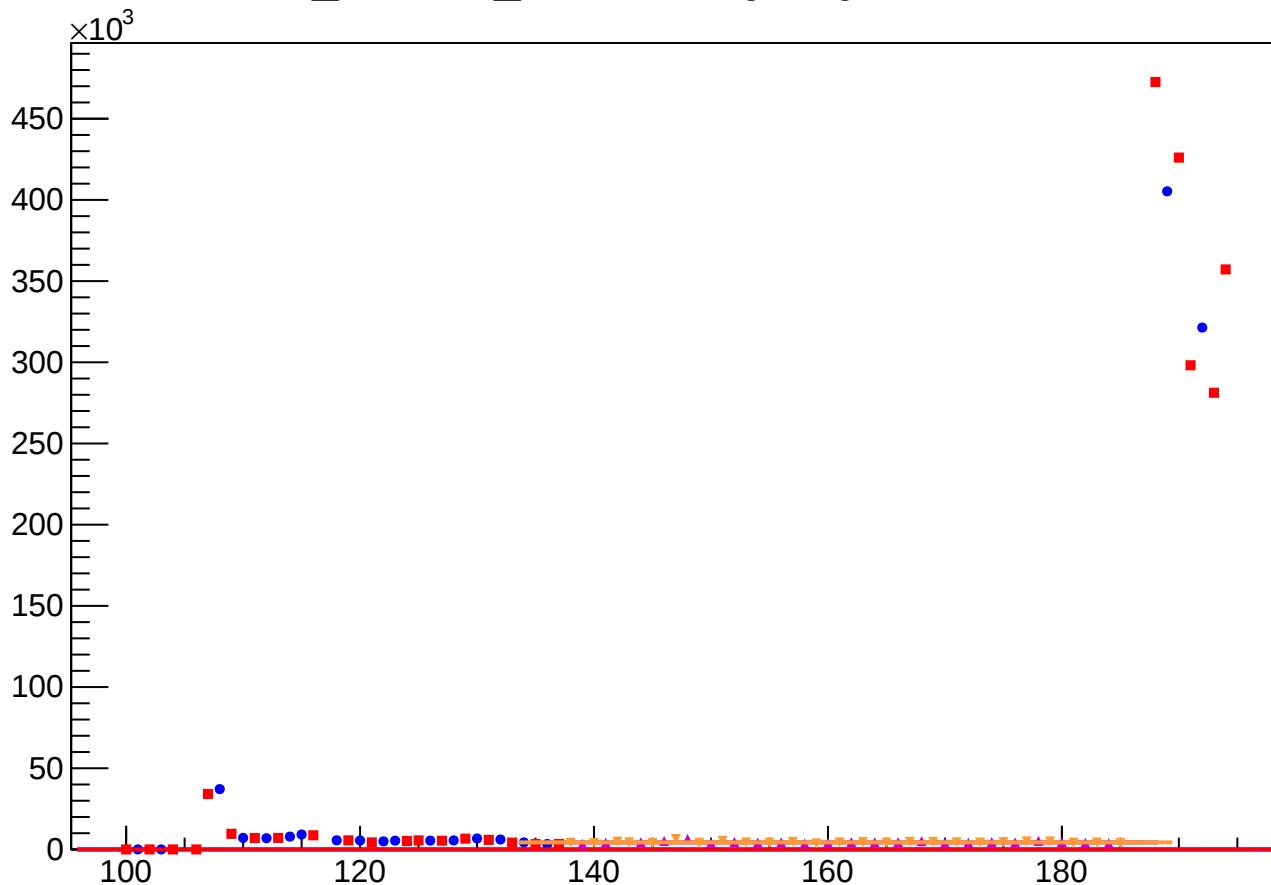
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 39.1/44

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 50.0/42

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 45.1/49

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 96.5/92

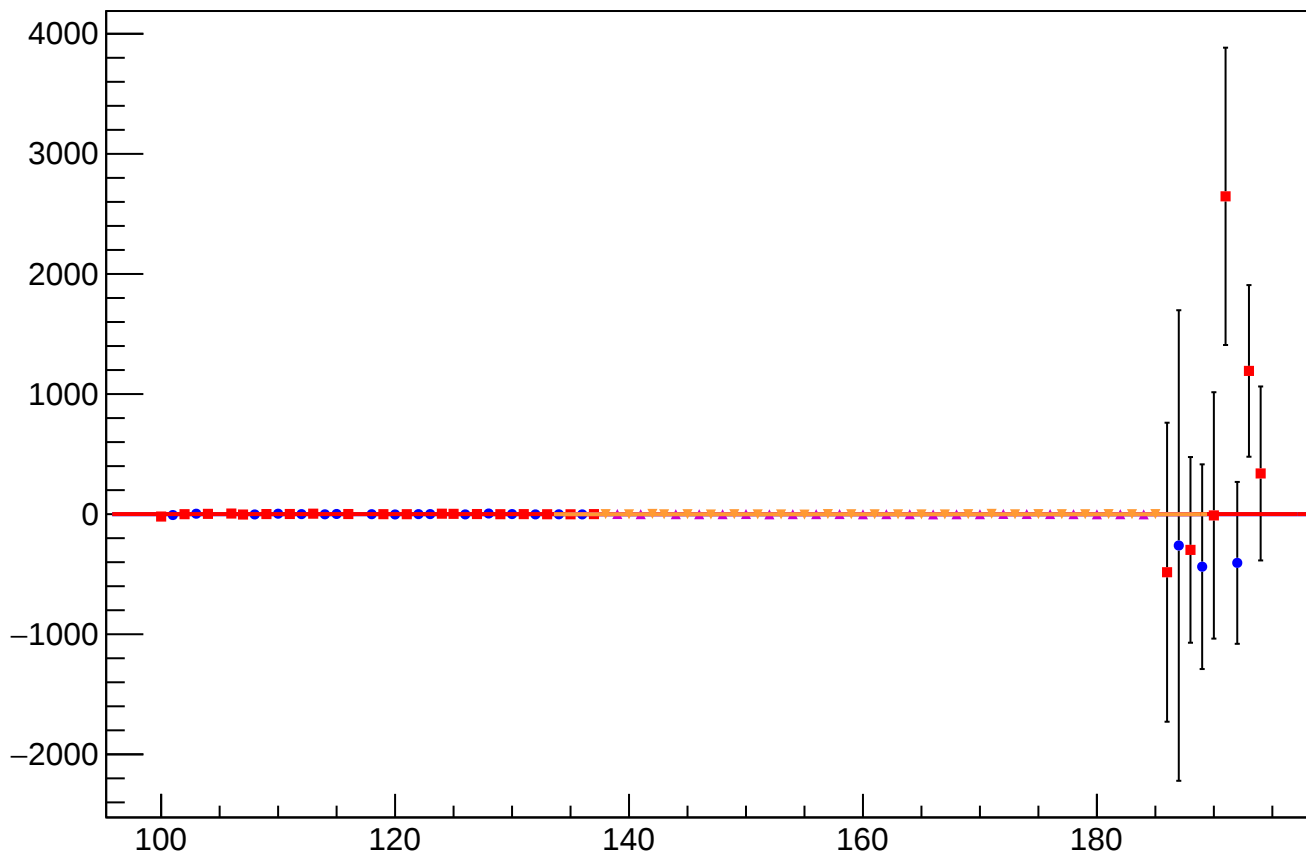
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 13550966.6/18
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.855 $\pm$ 0.006 χ^2 /NDF: 16860506.4/23
 Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47
 Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 30411562.2/42
 In: 10.271 $\pm$ 0.007 χ^2 /NDF:47882710.8/41
 Out: 10.165 $\pm$ 0.006 χ^2 /NDF:53289671.6/48
 All: 10.215 $\pm$ 0.004 χ^2 /NDF: 101172522.2/90

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 $\chi^2/\text{NDF}: 23.3/19$

Left Out: -0.775 ± 0.165 $\chi^2/\text{NDF}: 58.5/24$

Right Out: 0.639 ± 0.501 $\chi^2/\text{NDF}: 20.9/24$

Left In: 0.018 ± 0.171 $\chi^2/\text{NDF}: 29.4/22$

Left: -0.393 ± 0.119 $\chi^2/\text{NDF}: 99.1/47$

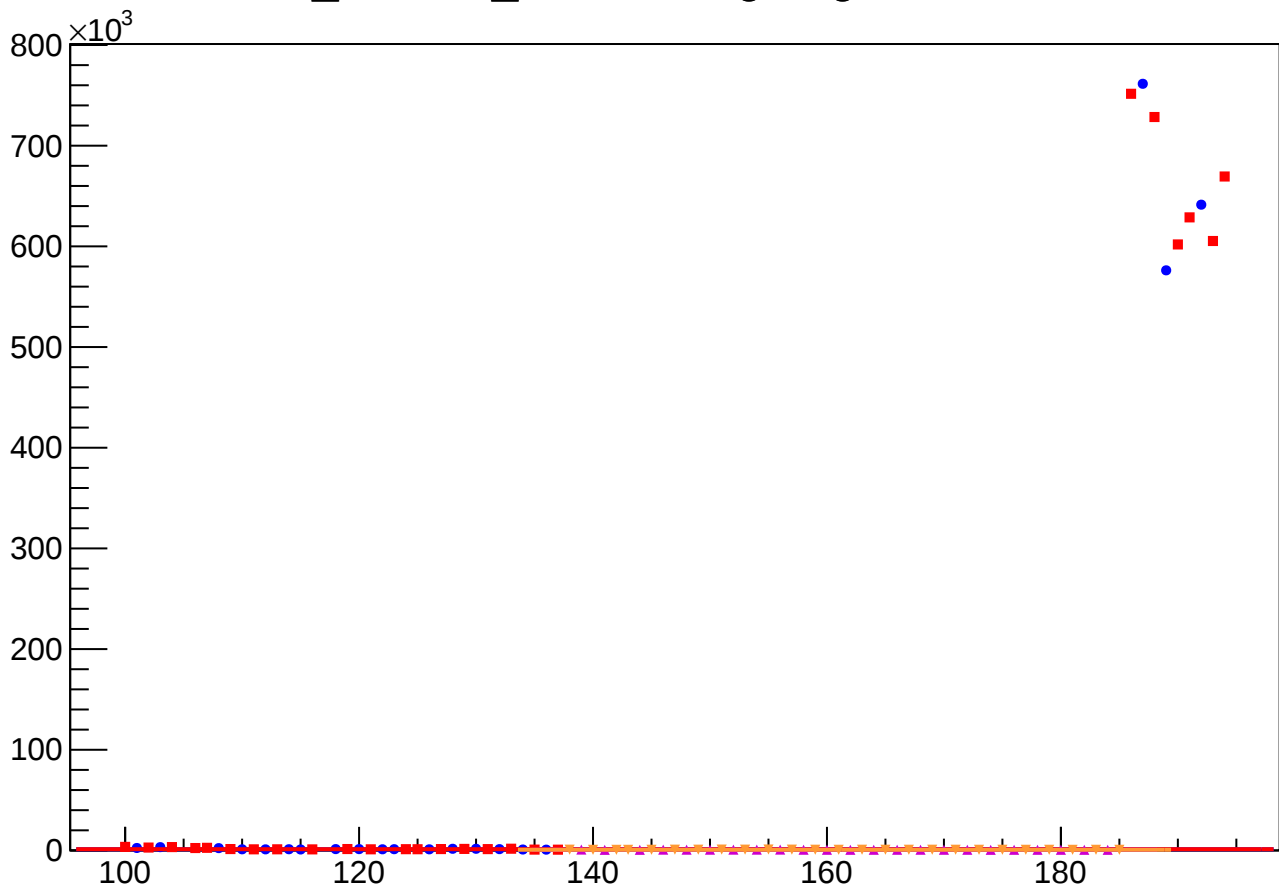
Right: -0.063 ± 0.348 $\chi^2/\text{NDF}: 48.1/44$

In: -0.063 ± 0.161 $\chi^2/\text{NDF}: 54.8/42$

Out: -0.637 ± 0.156 $\chi^2/\text{NDF}: 86.6/49$

All: -0.359 ± 0.112 $\chi^2/\text{NDF}: 148.0/92$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.681+/-0.342 χ^2/NDF : 4596391.8/19

Left Out: 700.984+/-0.116 χ^2/NDF : 392855.4/24

Right Out: 1249.201+/-0.355 χ^2/NDF : 8446890.9/24

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

Left: 703.867+/-0.084 χ^2/NDF : 726141.0/47

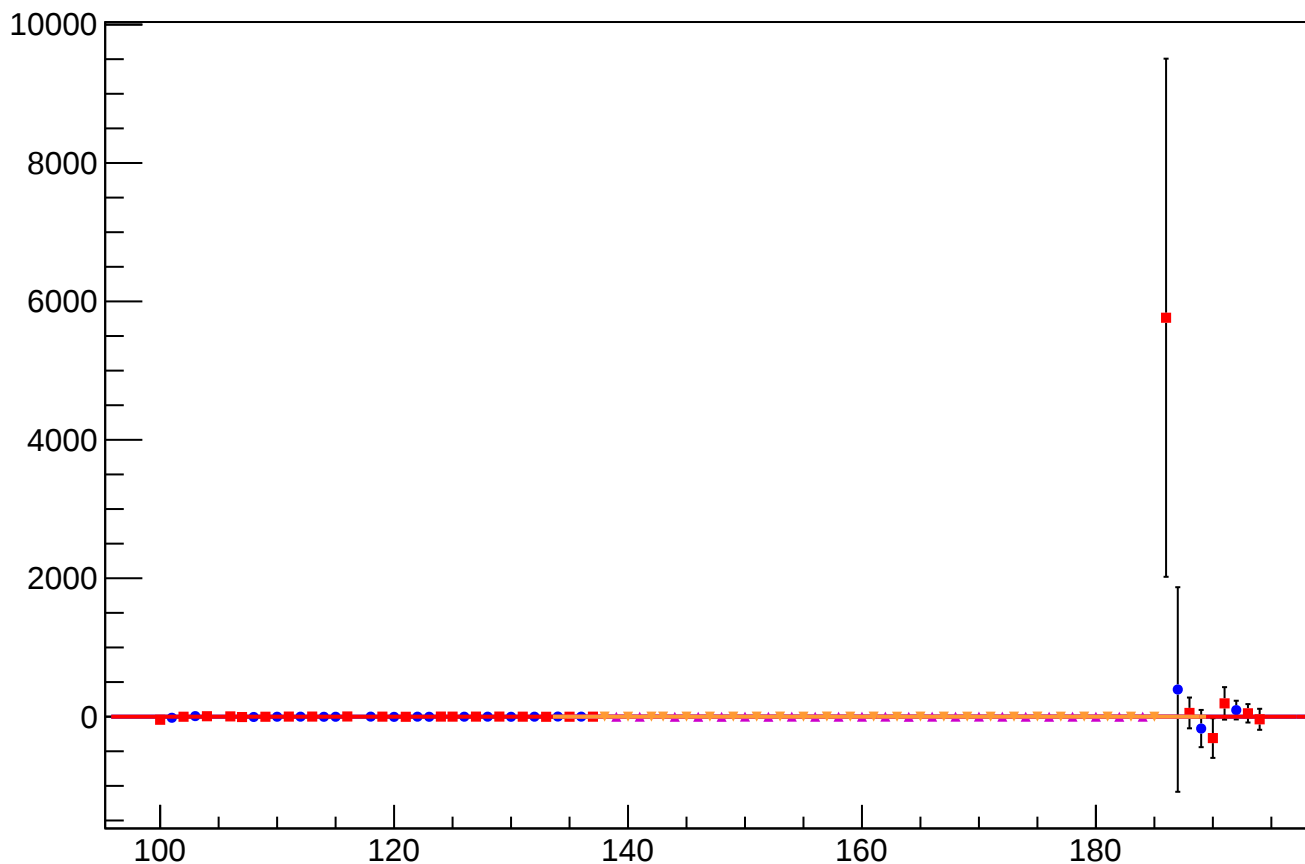
Right: 1206.922+/-0.246 χ^2/NDF : 13070693.7/44

In: 758.144+/-0.114 χ^2/NDF : 6545127.6/42

Out: 754.288+/-0.111 χ^2/NDF : 10997531.3/49

All: 756.160+/-0.079 χ^2/NDF : 17543249.4/92

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.269 $\chi^2/\text{NDF}: 20.1/19$

Left Out: 0.233 ± 0.123 $\chi^2/\text{NDF}: 18.0/24$

Right Out: -0.280 ± 0.264 $\chi^2/\text{NDF}: 25.0/24$

Left In: -0.126 ± 0.126 $\chi^2/\text{NDF}: 35.0/22$

Left: 0.059 ± 0.088 $\chi^2/\text{NDF}: 57.1/47$

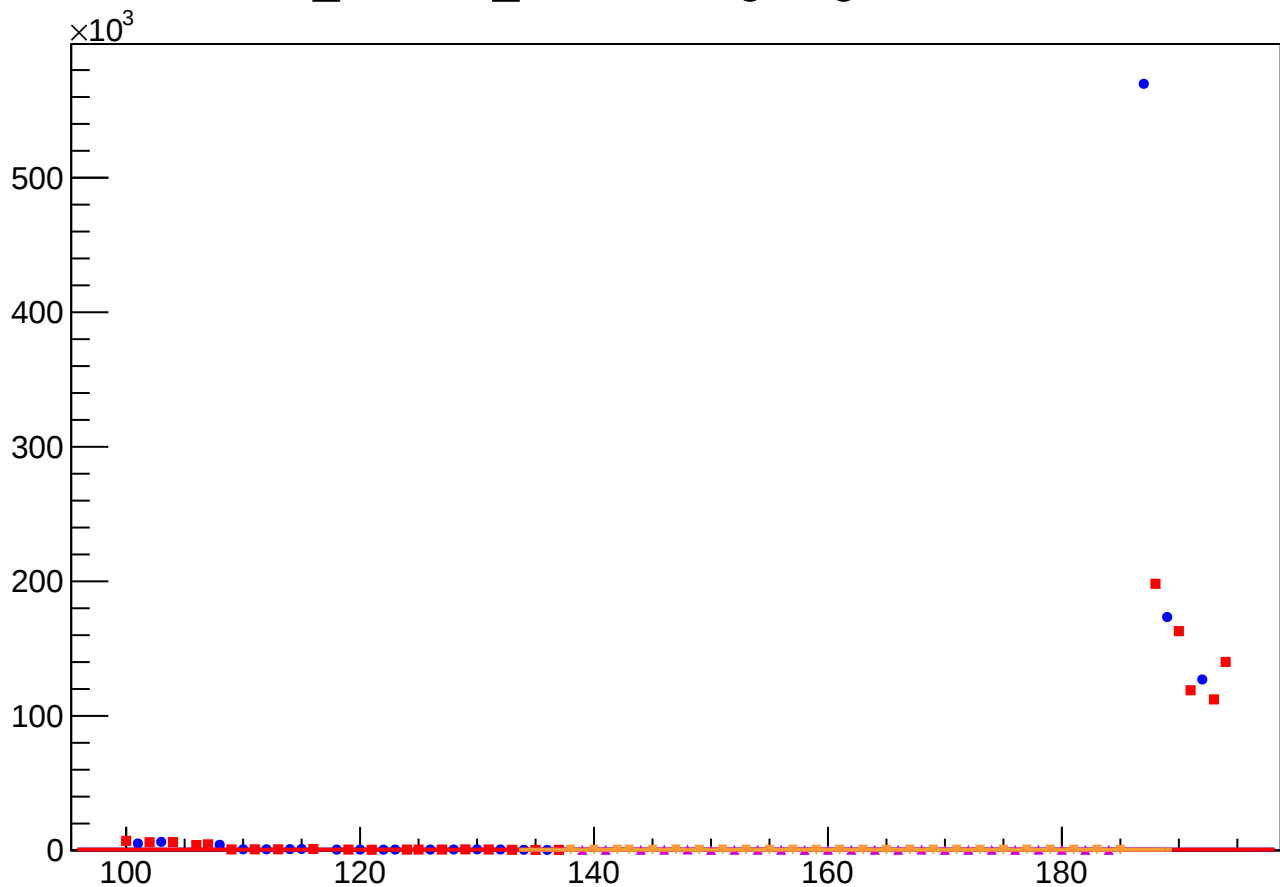
Right: -0.171 ± 0.189 $\chi^2/\text{NDF}: 45.4/44$

In: -0.114 ± 0.114 $\chi^2/\text{NDF}: 55.1/42$

Out: 0.142 ± 0.111 $\chi^2/\text{NDF}: 46.1/49$

All: 0.018 ± 0.080 $\chi^2/\text{NDF}: 103.8/92$

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 610.079+/-0.190 χ^2/NDF : 6012099.3/19

Left Out: 522.220+/-0.087 χ^2/NDF : 330405.3/24

Right Out: 600.253+/-0.187 χ^2/NDF : 9383107.8/23

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

Left: 521.481+/-0.062 χ^2/NDF : 758275.0/47

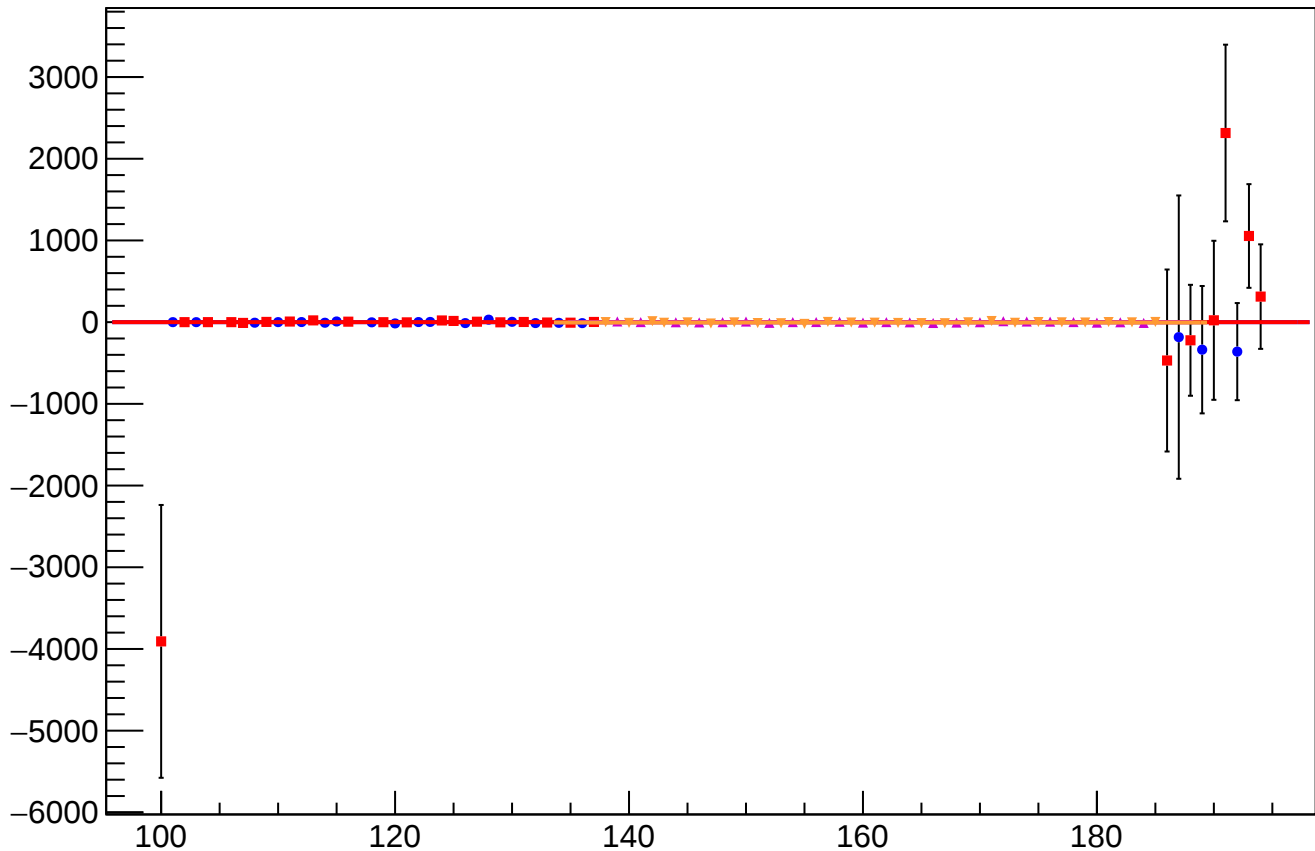
Right: 605.081+/-0.133 χ^2/NDF : 15396564.3/43

In: 536.812+/-0.081 χ^2/NDF : 6620817.9/42

Out: 536.028+/-0.079 χ^2/NDF : 9856874.2/48

All: 536.410+/-0.056 χ^2/NDF : 16477740.5/92

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.5/19

Left Out: -4.480 ± 0.957 χ^2/NDF : 58.4/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 25.3/24

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

Left: -2.236 ± 0.689 χ^2/NDF : 99.3/47

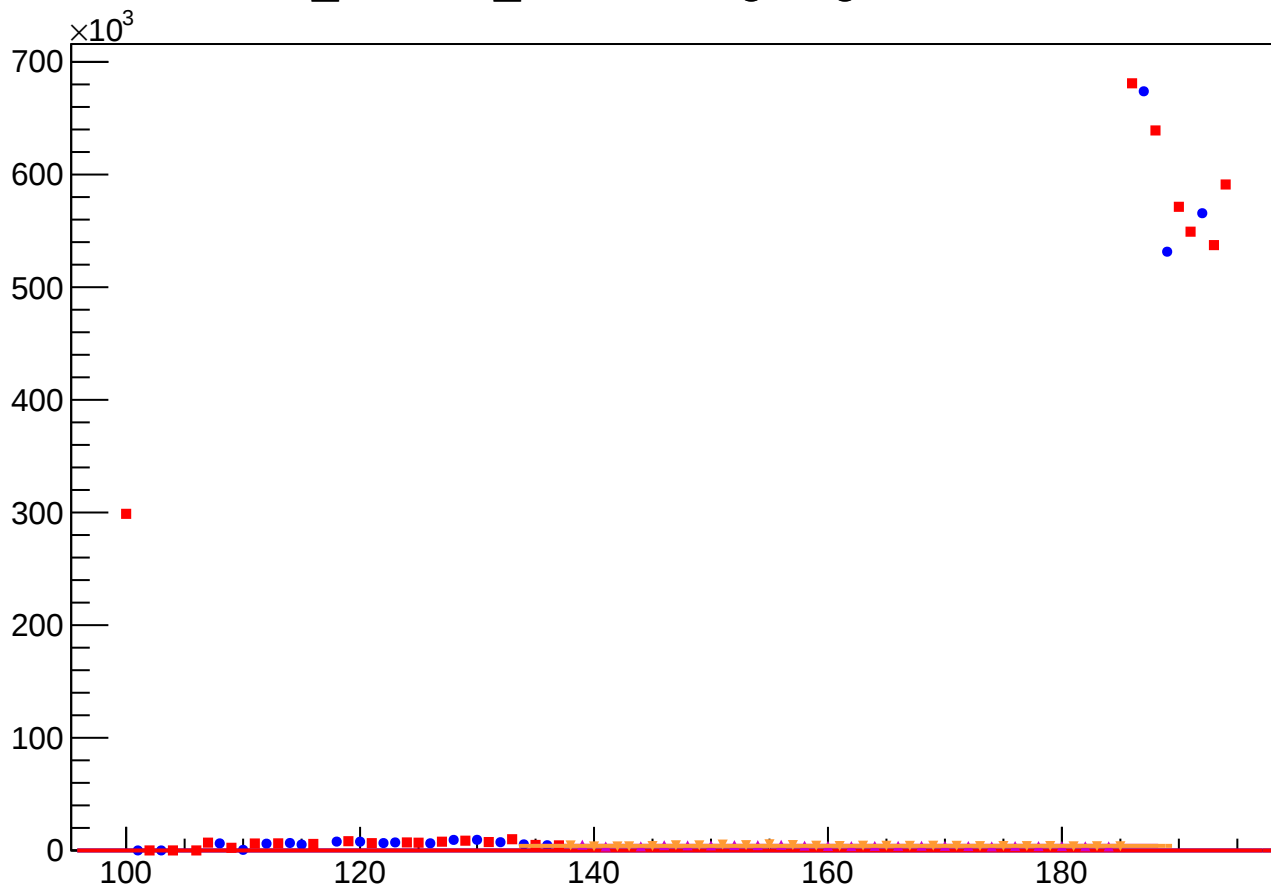
Right: 0.004 ± 0.014 χ^2/NDF : 44.7/44

In: -0.022 ± 0.021 χ^2/NDF : 46.1/42

Out: 0.025 ± 0.020 χ^2/NDF : 105.9/49

All: 0.003 ± 0.014 χ^2/NDF : 154.6/92

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.340 $\pm$ 0.015 χ^2 /NDF: 13500196.5/19

Left Out: 4075.147 $\pm$ 0.677 χ^2 /NDF: 417511.0/24

Right Out: 17.270 $\pm$ 0.014 χ^2 /NDF: 17634392.1/24

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

Left: 4093.835 $\pm$ 0.488 χ^2 /NDF: 768256.5/47

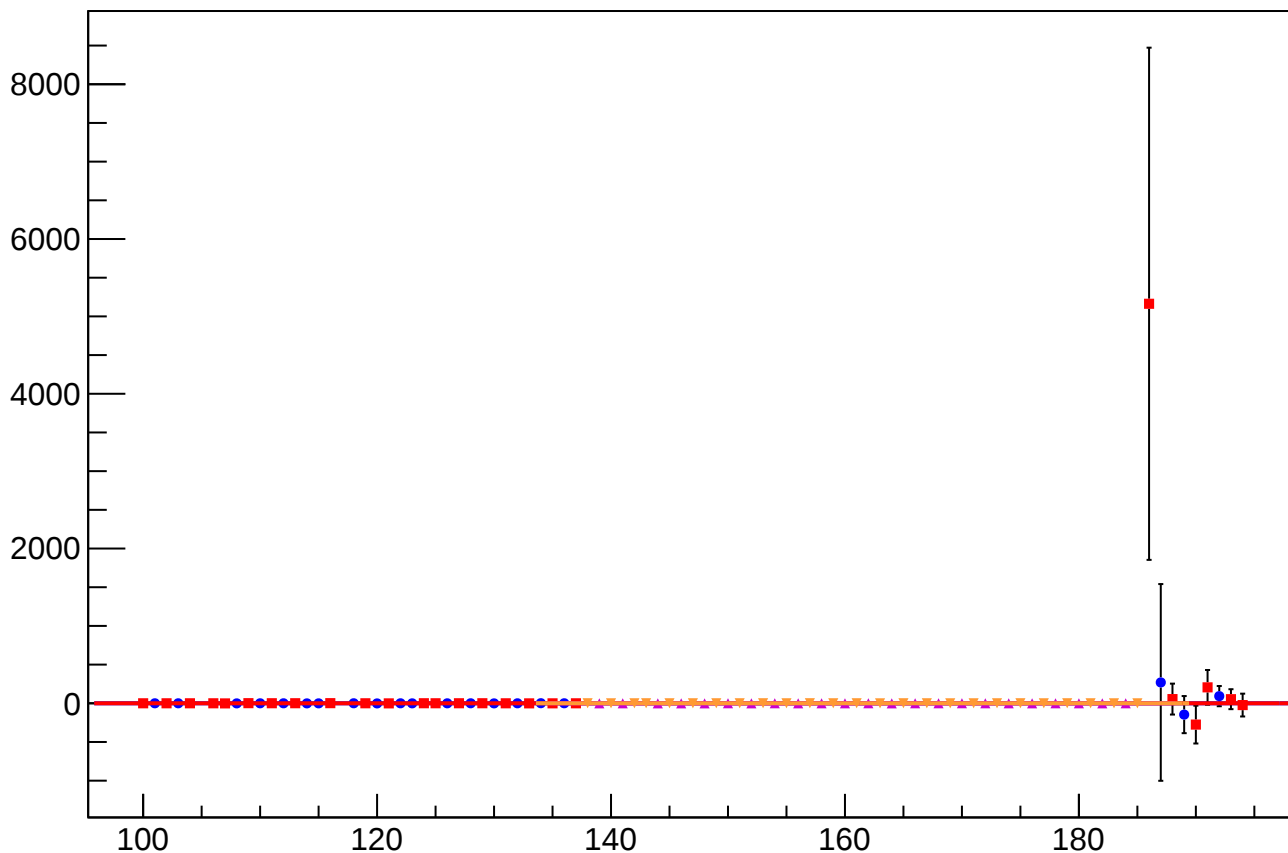
Right: 17.303 $\pm$ 0.010 χ^2 /NDF: 31134600.7/44

In: 19.132 $\pm$ 0.015 χ^2 /NDF: 47802713.9/42

Out: 19.001 $\pm$ 0.014 χ^2 /NDF: 53987410.4/49

All: 19.064 $\pm$ 0.010 χ^2 /NDF: 101790165.8/92

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 14.5/19$

Left Out: 0.148 ± 0.076 $\chi^2/\text{NDF}: 17.3/24$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 23.0/24$

Left In: -0.080 ± 0.079 $\chi^2/\text{NDF}: 34.6/22$

Left: 0.038 ± 0.055 $\chi^2/\text{NDF}: 56.3/47$

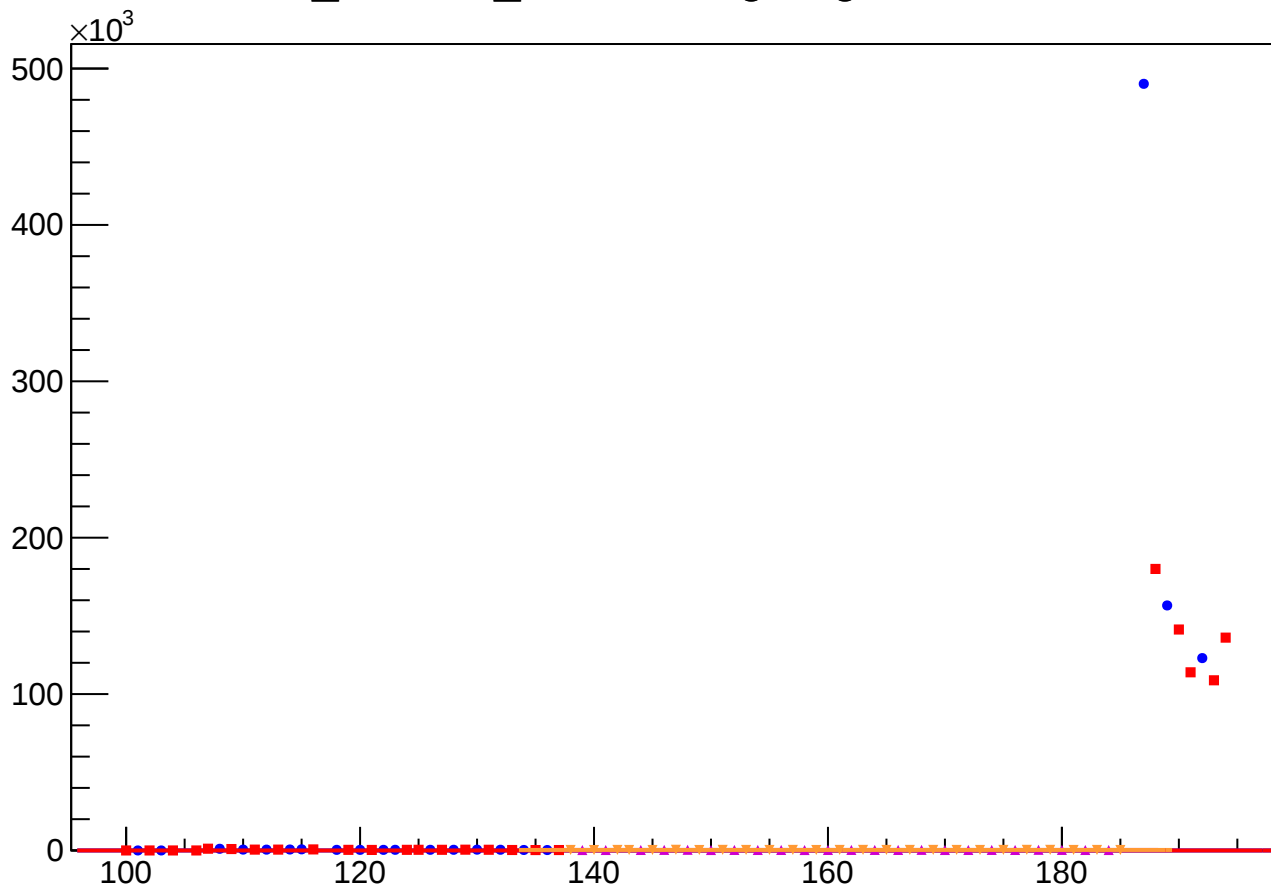
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 37.7/44$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 50.2/42$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 44.1/49$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 94.4/92$

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2/NDF : 13931483.0/19

Left Out: 325.326 $\pm$ 0.054 χ^2/NDF : 347705.2/24

Right Out: 1.728 $\pm$ 0.001 χ^2/NDF : 16635268.2/23

Left In: 325.626 $\pm$ 0.056 χ^2/NDF : 413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2/NDF : 761070.2/47

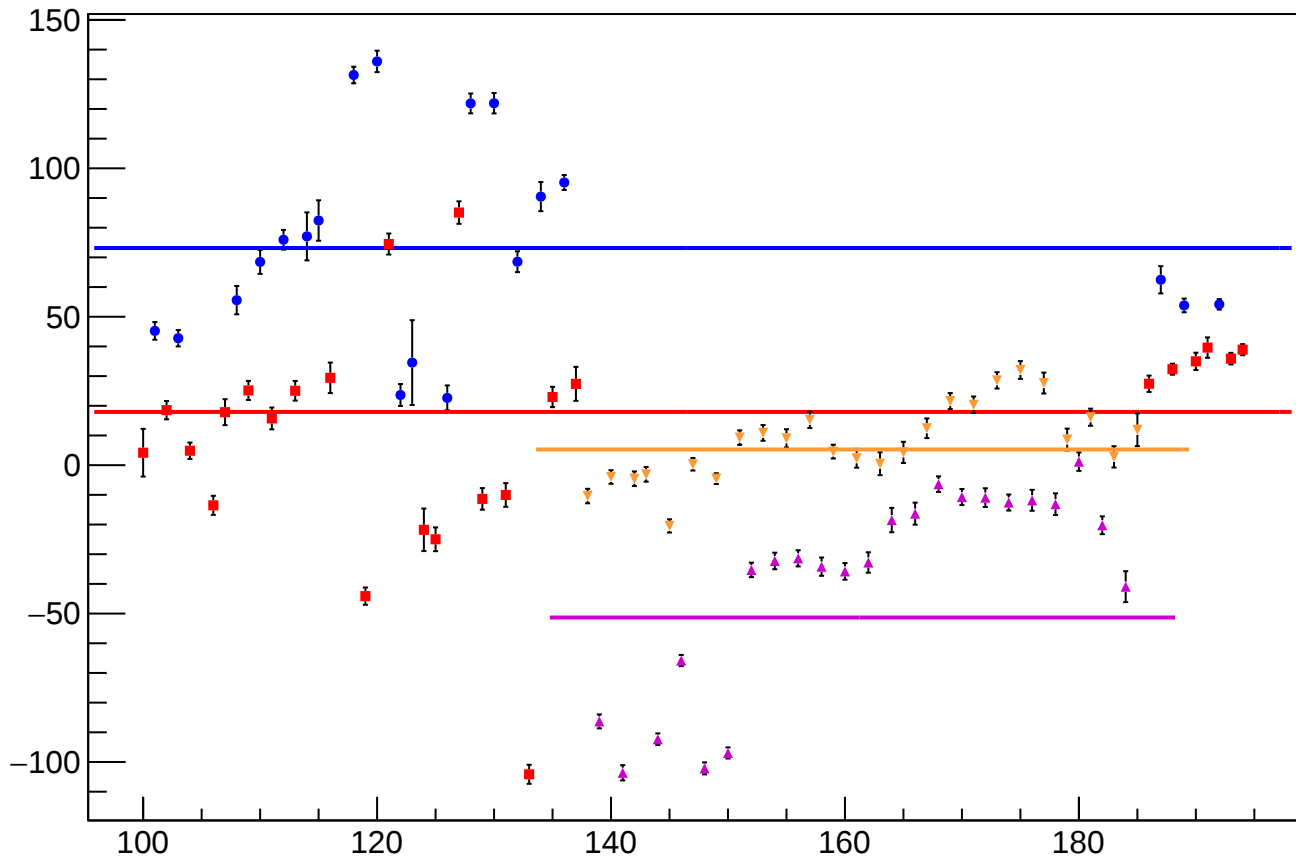
Right: 1.714 $\pm$ 0.001 χ^2/NDF : 30566968.8/43

In: 1.913 $\pm$ 0.001 χ^2/NDF : 48073634.1/42

Out: 1.937 $\pm$ 0.001 χ^2/NDF : 52842786.1/48

All: 1.925 $\pm$ 0.001 χ^2/NDF : 100916567.1/91

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 73.149 ± 0.740 $\chi^2/\text{NDF}: 1991.2/19$

Left Out: 5.276 ± 0.544 $\chi^2/\text{NDF}: 556.2/24$

Right Out: 17.935 ± 0.622 $\chi^2/\text{NDF}: 3238.5/24$

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

Left: -22.298 ± 0.390 $\chi^2/\text{NDF}: 10084.6/47$

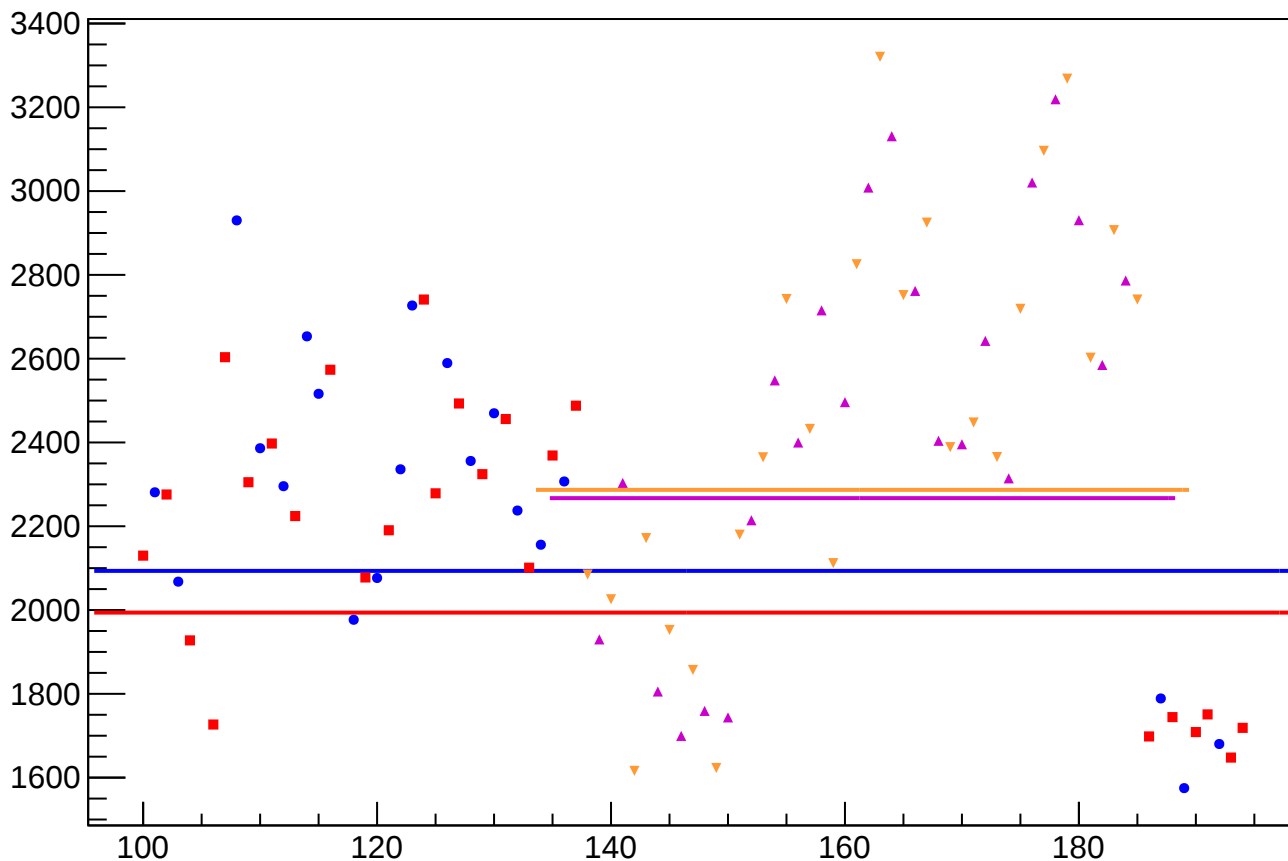
Right: 40.802 ± 0.476 $\chi^2/\text{NDF}: 8490.6/44$

In: -6.175 ± 0.446 $\chi^2/\text{NDF}: 24277.2/42$

Out: 10.762 ± 0.410 $\chi^2/\text{NDF}: 4029.2/49$

All: 3.007 ± 0.302 $\chi^2/\text{NDF}: 29089.2/92$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2093.484 ± 0.523 $\chi^2/\text{NDF}: 422521.3/19$

Left Out: 2286.871 ± 0.385 $\chi^2/\text{NDF}: 1360490.8/24$

Right Out: 1993.916 ± 0.440 $\chi^2/\text{NDF}: 503579.5/24$

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

Left: 2277.239 ± 0.276 $\chi^2/\text{NDF}: 2675141.7/47$

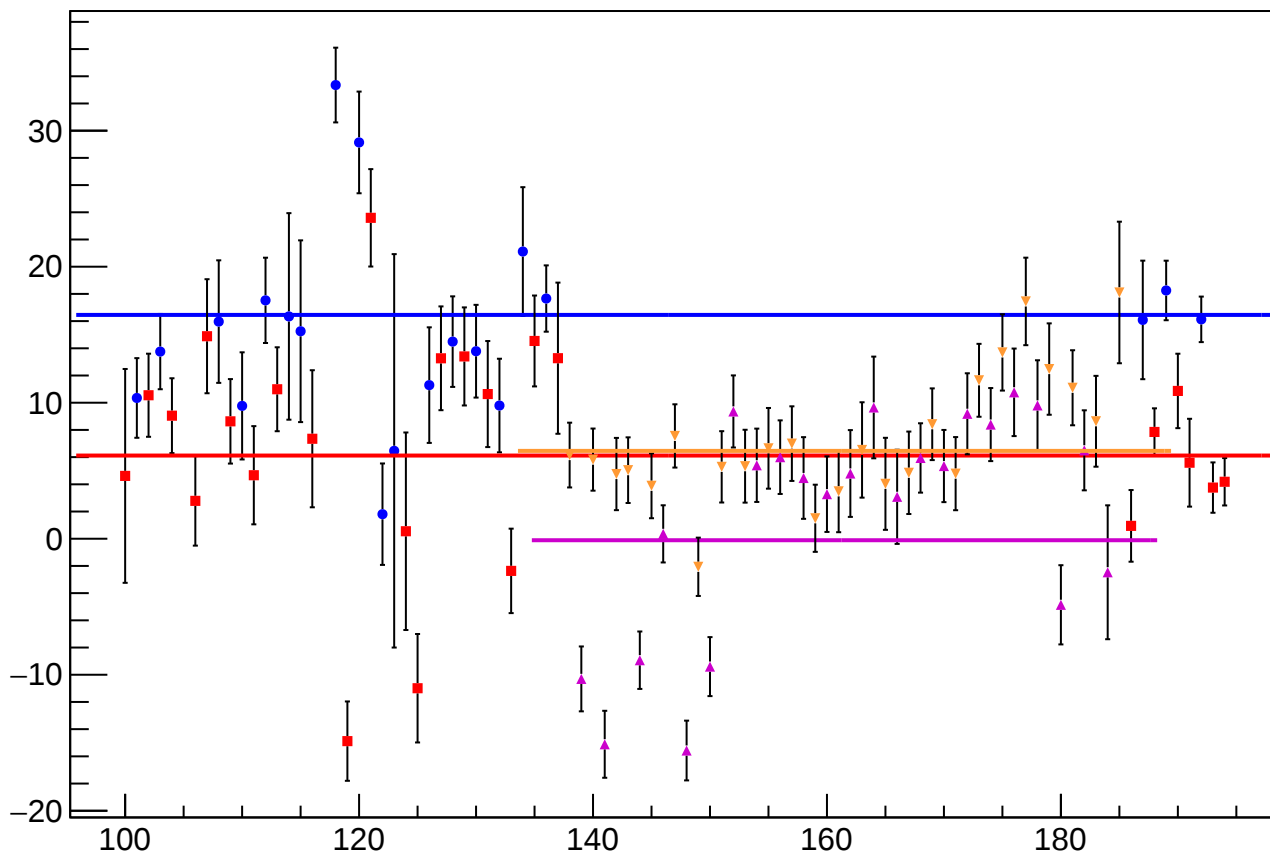
Right: 2035.152 ± 0.337 $\chi^2/\text{NDF}: 947309.4/44$

In: 2204.121 ± 0.315 $\chi^2/\text{NDF}: 1806026.4/42$

Out: 2159.912 ± 0.290 $\chi^2/\text{NDF}: 2115269.6/49$

All: 2180.154 ± 0.213 $\chi^2/\text{NDF}: 3931962.7/92$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.455 $\pm$ 0.720 χ^2 /NDF: 81.7/19

Left Out: 6.458 $\pm$ 0.548 χ^2 /NDF: 58.7/24

Right Out: 6.116 $\pm$ 0.601 χ^2 /NDF: 141.8/24

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

Left: 3.278 $\pm$ 0.393 χ^2 /NDF: 363.0/47

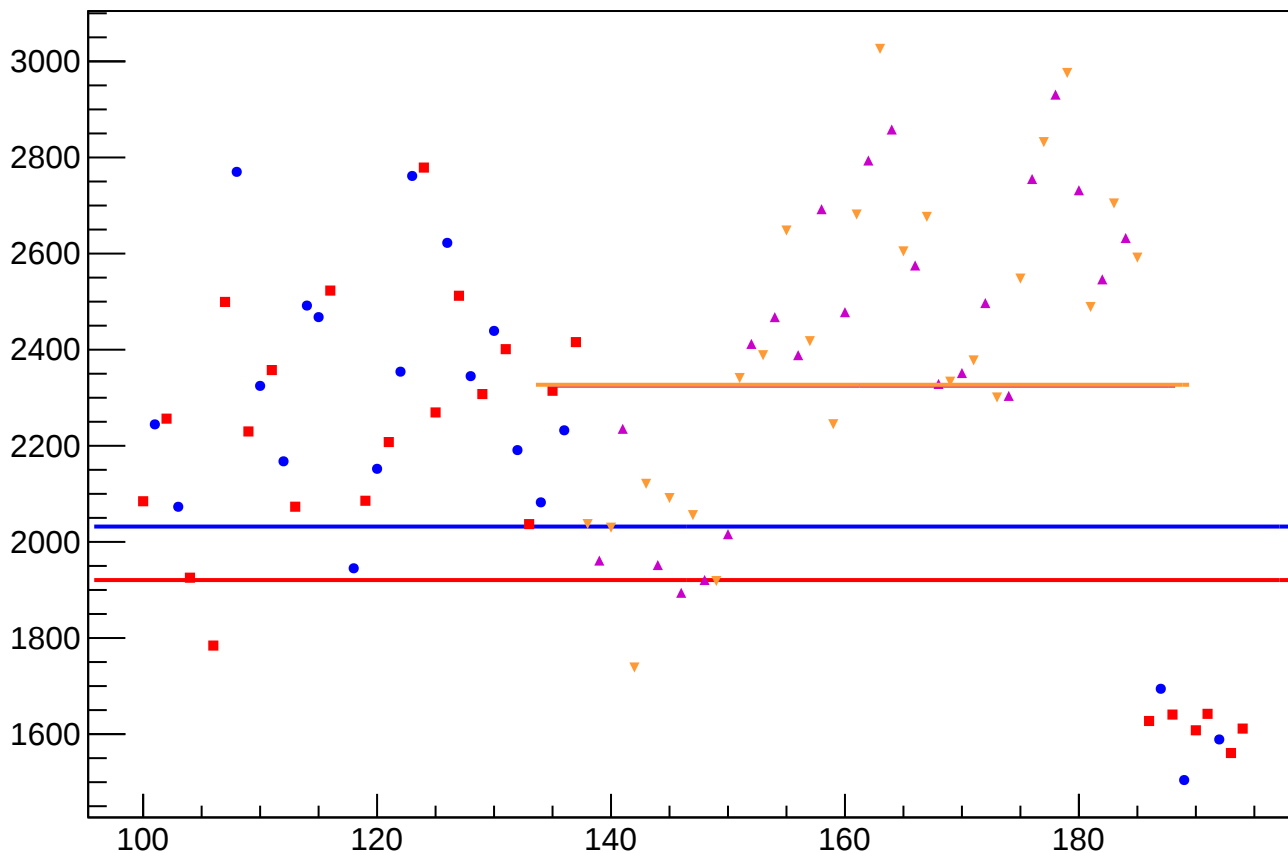
Right: 10.362 $\pm$ 0.461 χ^2 /NDF: 345.2/44

In: 6.209 $\pm$ 0.444 χ^2 /NDF: 644.0/42

Out: 6.303 $\pm$ 0.405 χ^2 /NDF: 200.8/49

All: 6.260 $\pm$ 0.299 χ^2 /NDF: 844.8/92

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2031.951 $\pm$ 0.509 χ^2 /NDF: 490676.8/19

Left Out: 2327.044 $\pm$ 0.387 χ^2 /NDF: 646706.7/24

Right Out: 1920.597 $\pm$ 0.425 χ^2 /NDF: 616146.3/24

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

Left: 2326.139 $\pm$ 0.278 χ^2 /NDF: 1257447.2/47

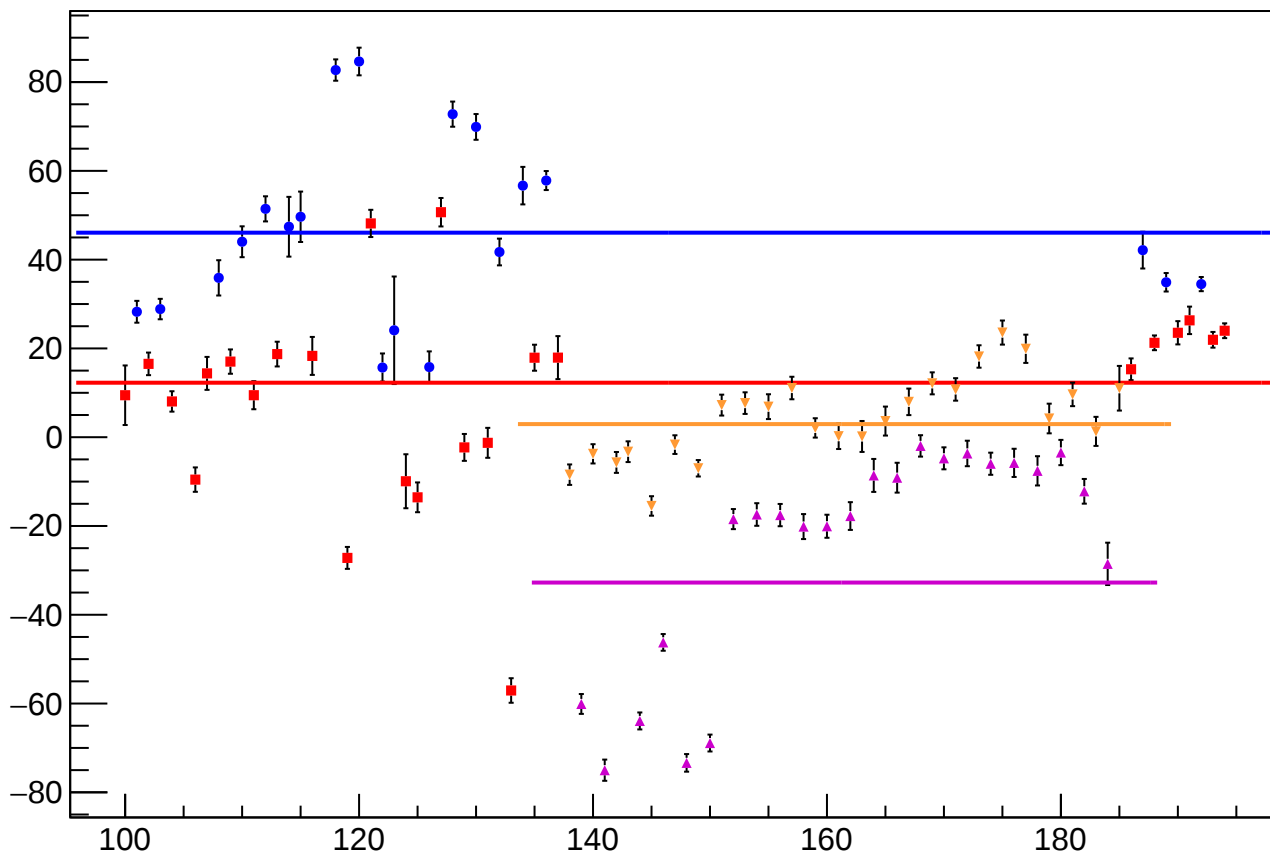
Right: 1966.327 $\pm$ 0.326 χ^2 /NDF: 1135041.3/44

In: 2213.323 $\pm$ 0.314 χ^2 /NDF: 1306775.3/42

Out: 2142.613 $\pm$ 0.286 χ^2 /NDF: 1762895.7/49

All: 2174.662 $\pm$ 0.212 χ^2 /NDF: 3097346.1/92

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 46.076 ± 0.639 $\chi^2/\text{NDF}: 950.3/19$

Left Out: 2.952 ± 0.512 $\chi^2/\text{NDF}: 337.8/24$

Right Out: 12.276 ± 0.541 $\chi^2/\text{NDF}: 1511.1/24$

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

Left: -14.409 ± 0.367 $\chi^2/\text{NDF}: 5335.1/47$

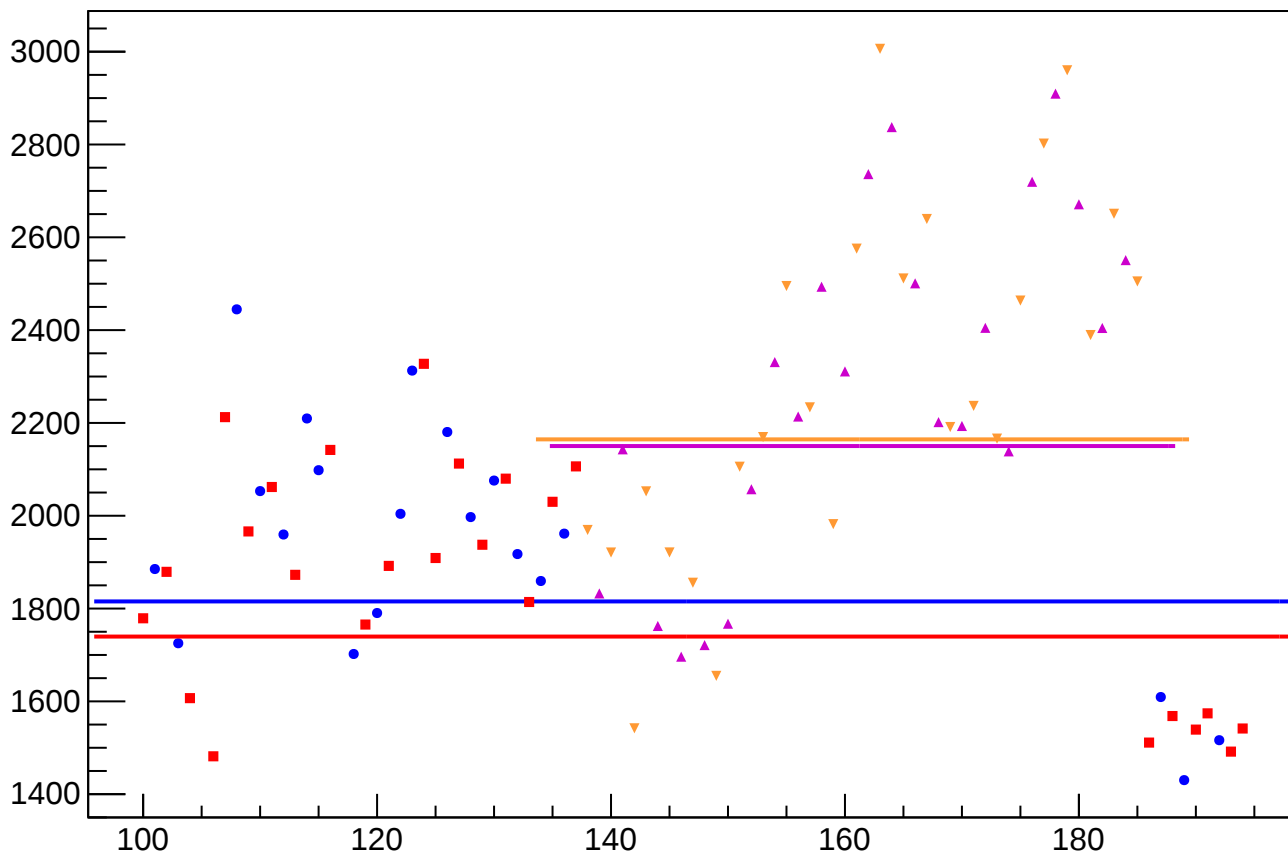
Right: 26.384 ± 0.413 $\chi^2/\text{NDF}: 4091.3/44$

In: -0.902 ± 0.406 $\chi^2/\text{NDF}: 12650.3/42$

Out: 7.357 ± 0.372 $\chi^2/\text{NDF}: 2005.7/49$

All: 3.592 ± 0.274 $\chi^2/\text{NDF}: 14880.9/92$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1815.353 ± 0.452 χ^2/NDF : 297088.3/19

Left Out: 2164.573 ± 0.362 χ^2/NDF : 965603.5/24

Right Out: 1739.638 ± 0.382 χ^2/NDF : 360676.9/24

Left In: 2150.190 ± 0.372 χ^2/NDF : 911849.7/22

Left: 2157.578 ± 0.259 χ^2/NDF : 1878220.9/47

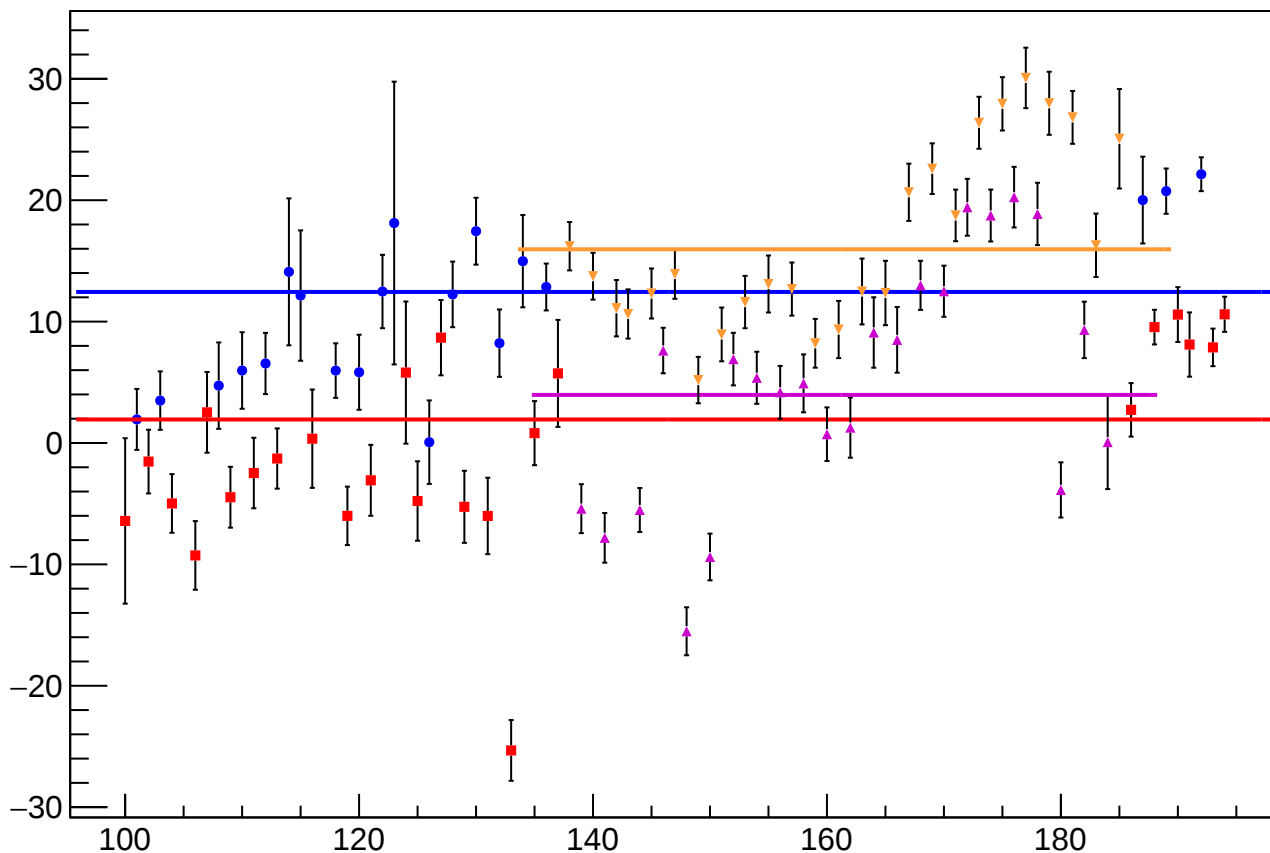
Right: 1771.242 ± 0.292 χ^2/NDF : 674121.9/44

In: 2014.920 ± 0.287 χ^2/NDF : 1536197.2/42

Out: 1963.798 ± 0.263 χ^2/NDF : 1977383.1/49

All: 1987.105 ± 0.194 χ^2/NDF : 3530818.3/92

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 12.444 $\pm$ 0.592 χ^2 /NDF: 150.7/19

Left Out: 15.956 $\pm$ 0.447 χ^2 /NDF:245.2/24

Right Out: 1.937 $\pm$ 0.496 χ^2 /NDF: 292.2/24

Left In: 3.960 $\pm$ 0.463 χ^2 /NDF:464.9/22

Left: 10.161 $\pm$ 0.322 χ^2 /NDF: 1057.3/47

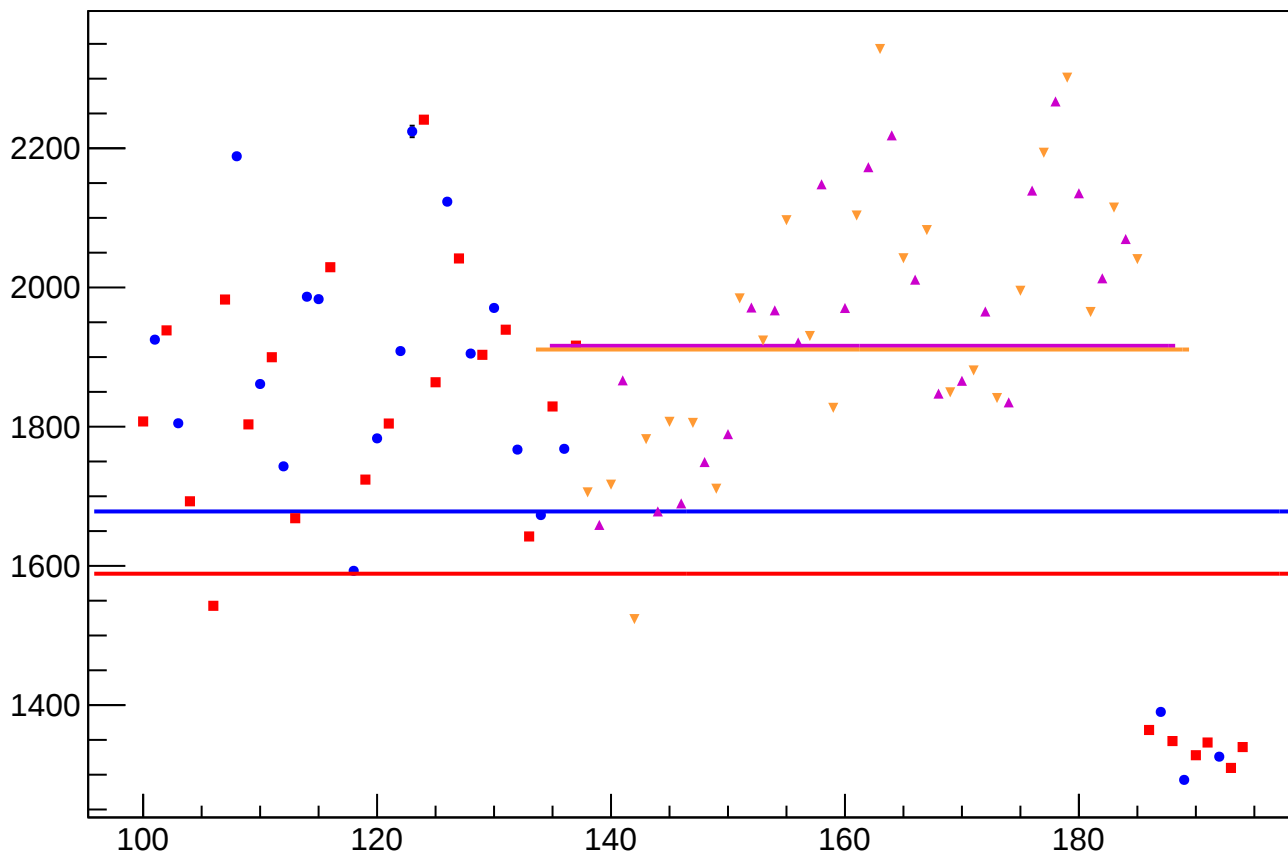
Right: 6.265 $\pm$ 0.380 χ^2 /NDF: 628.0/44

In: 7.177 $\pm$ 0.365 χ^2 /NDF:743.0/42

Out: 9.662 $\pm$ 0.332 χ^2 /NDF:978.2/49

All: 8.535 $\pm$ 0.246 χ^2 /NDF: 1746.6/92

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1678.209 $\pm$ 0.419 χ^2/NDF : 409805.9/19

Left Out: 1910.859 $\pm$ 0.316 χ^2/NDF : 328970.6/24

Right Out: 1588.756 $\pm$ 0.350 χ^2/NDF : 552998.1/24

Left In: 1916.159 $\pm$ 0.327 χ^2/NDF : 274285.3/22

Left: 1913.419 $\pm$ 0.227 χ^2/NDF : 603391.5/47

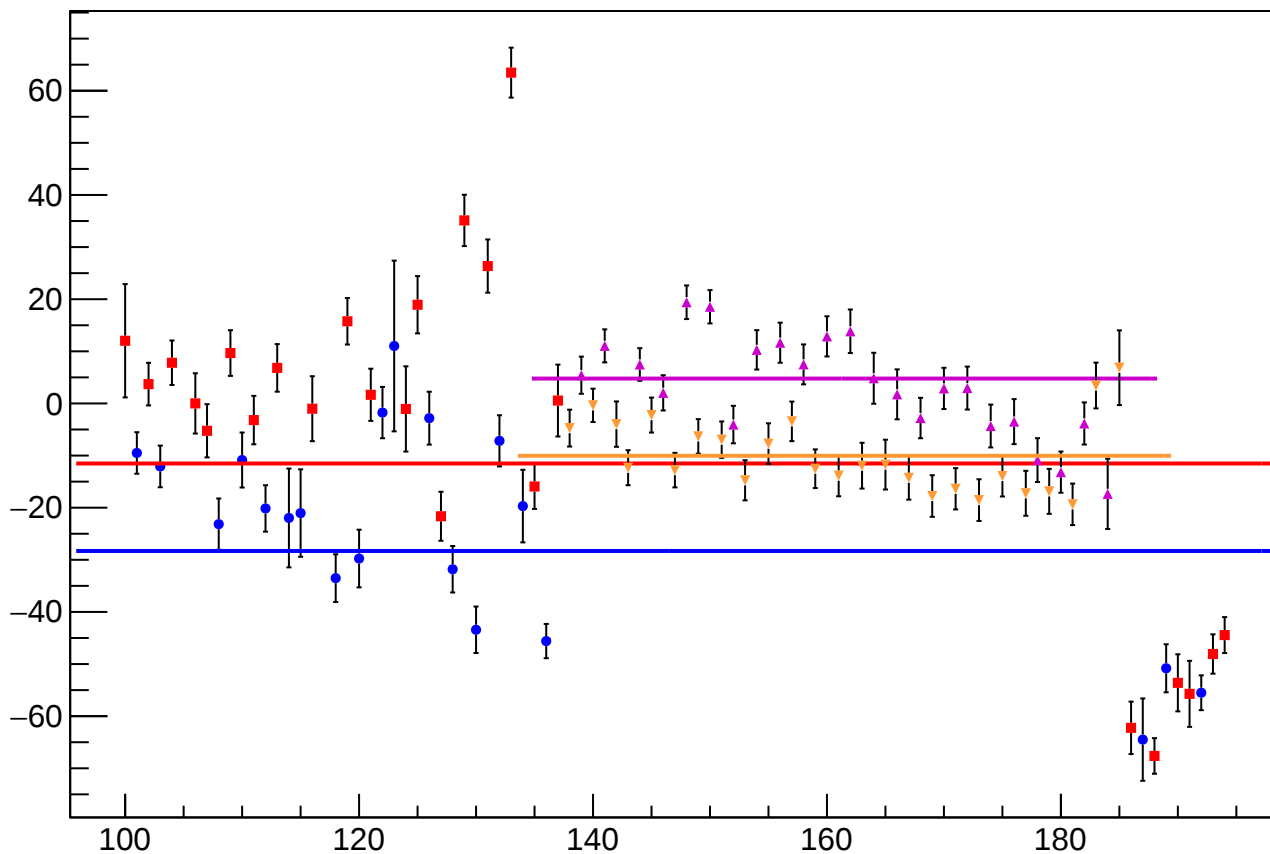
Right: 1625.604 $\pm$ 0.269 χ^2/NDF : 989636.2/44

In: 1825.938 $\pm$ 0.258 χ^2/NDF : 884531.0/42

Out: 1766.248 $\pm$ 0.235 χ^2/NDF : 1347363.2/49

All: 1793.310 $\pm$ 0.174 χ^2/NDF : 2261183.6/92

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -28.302 ± 1.084 $\chi^2/\text{NDF}: 287.8/19$

Left Out: -10.042 ± 0.776 $\chi^2/\text{NDF}: 67.1/24$

Right Out: -11.521 ± 0.961 $\chi^2/\text{NDF}: 1229.8/24$

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

Left: -2.861 ± 0.557 $\chi^2/\text{NDF}: 372.2/47$

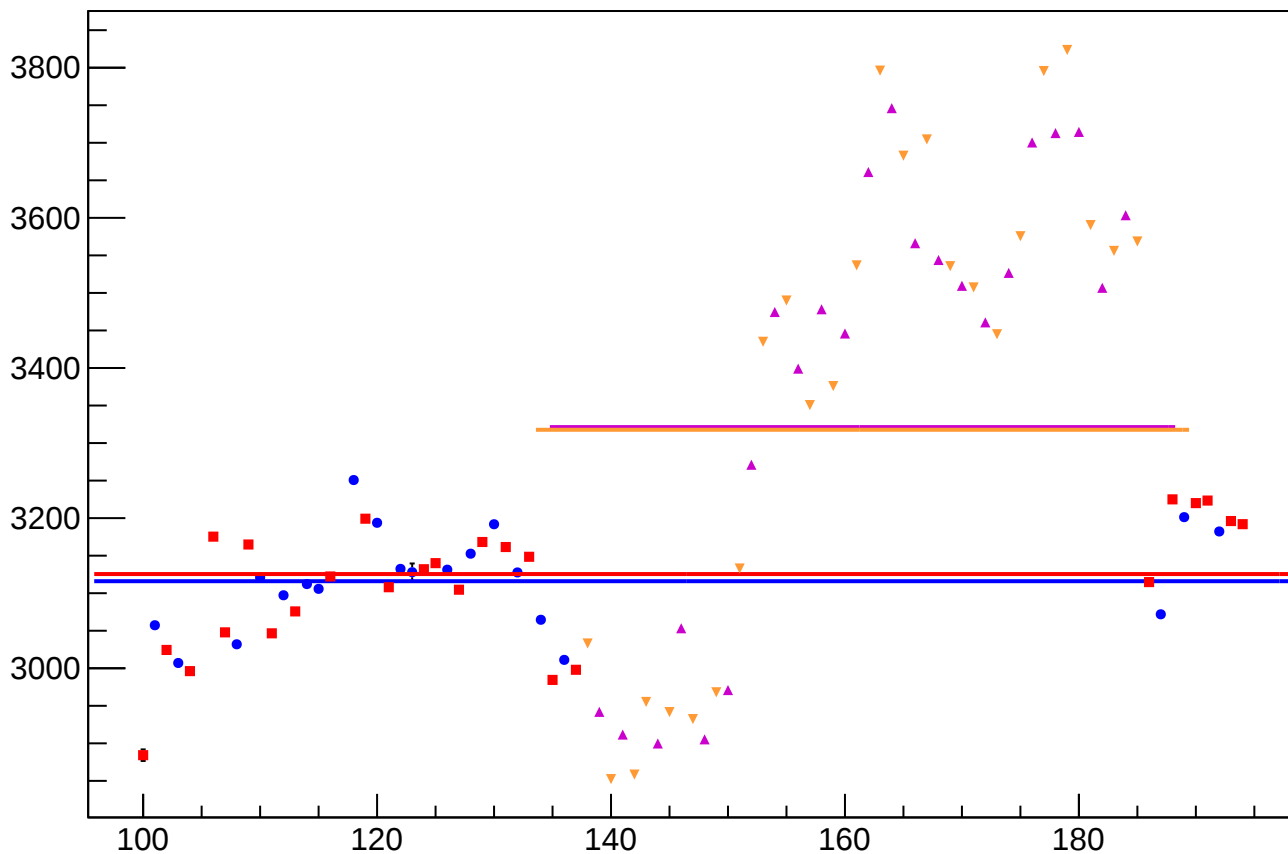
Right: -18.904 ± 0.719 $\chi^2/\text{NDF}: 1651.8/44$

In: -6.896 ± 0.644 $\chi^2/\text{NDF}: 1018.7/42$

Out: -10.626 ± 0.604 $\chi^2/\text{NDF}: 1298.4/49$

All: -8.881 ± 0.440 $\chi^2/\text{NDF}: 2334.9/92$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3115.987 $\pm$ 0.767 χ^2 /NDF: 9116.8/19

Left Out: 3317.699 $\pm$ 0.549 χ^2 /NDF:336877.2/24

Right Out: 3125.508 $\pm$ 0.679 χ^2 /NDF: 13606.6/24

Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF:284334.2/22

Left: 3319.432 $\pm$ 0.394 χ^2 /NDF: 621232.0/47

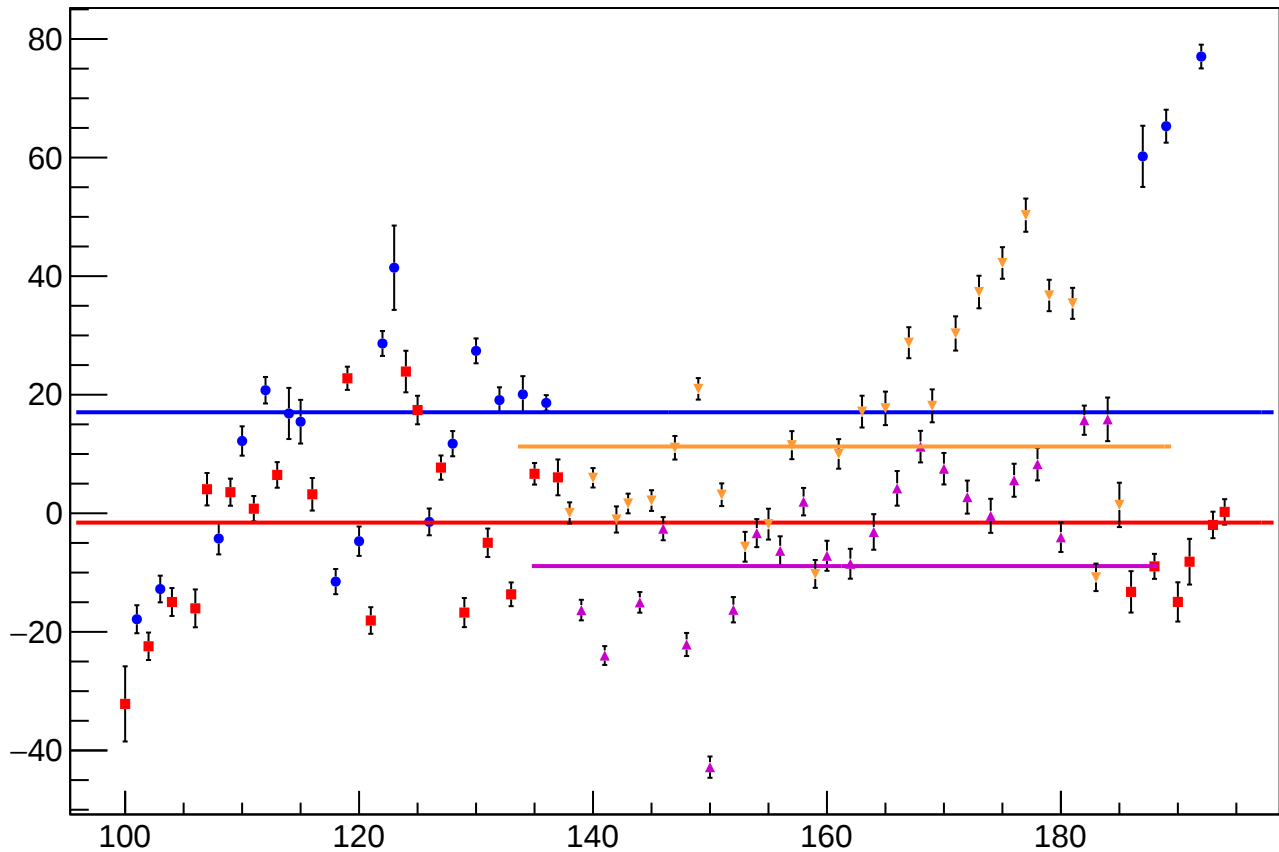
Right: 3121.319 $\pm$ 0.508 χ^2 /NDF: 22809.8/44

In: 3248.843 $\pm$ 0.455 χ^2 /NDF:339863.3/42

Out: 3241.794 $\pm$ 0.427 χ^2 /NDF:398892.9/49

All: 3245.092 $\pm$ 0.311 χ^2 /NDF: 738883.7/92

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.039 ± 0.527 $\chi^2/\text{NDF}: 2133.5/19$

Left Out: 11.268 ± 0.454 $\chi^2/\text{NDF}: 1141.8/24$

Right Out: -1.568 ± 0.487 $\chi^2/\text{NDF}: 676.2/24$

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

Left: 1.682 ± 0.329 $\chi^2/\text{NDF}: 3014.7/47$

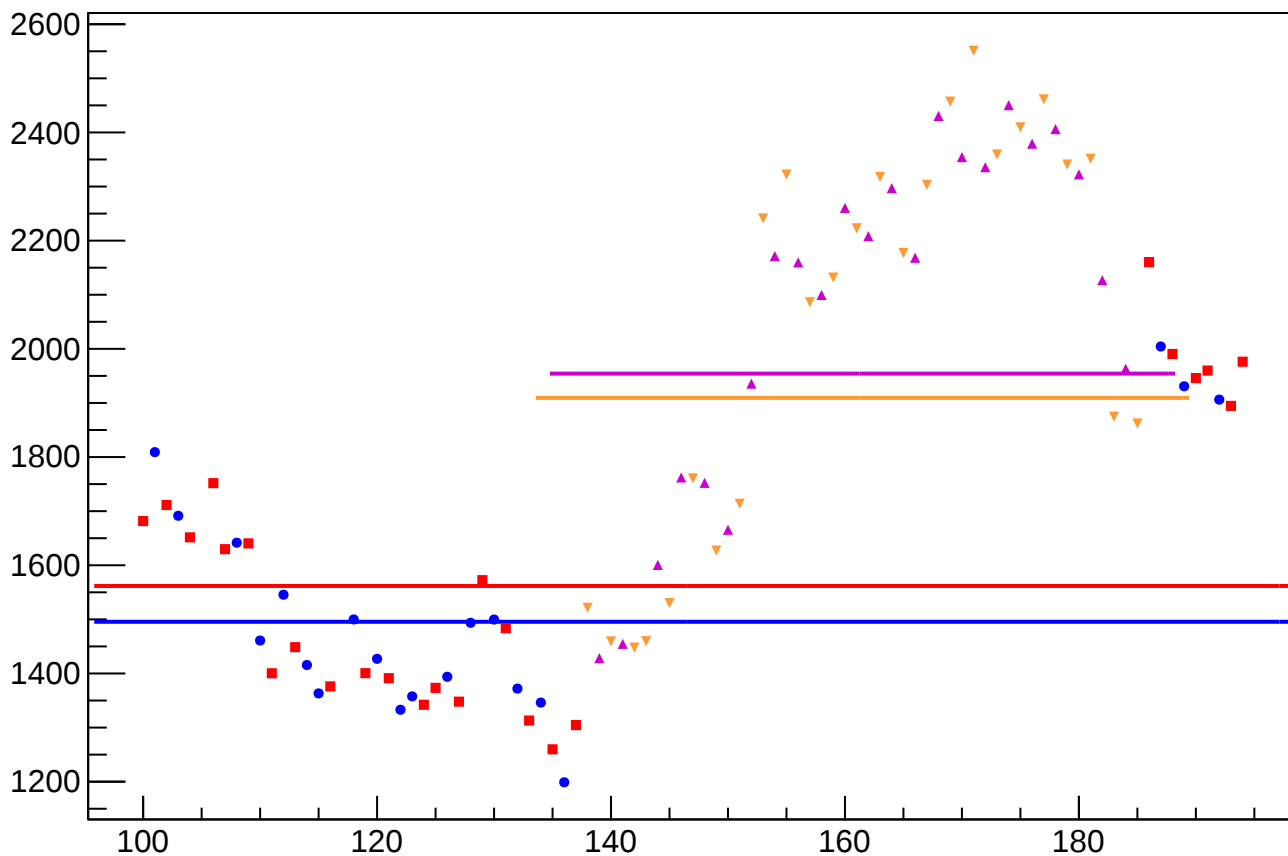
Right: 7.002 ± 0.358 $\chi^2/\text{NDF}: 3482.0/44$

In: 2.791 ± 0.354 $\chi^2/\text{NDF}: 4400.5/42$

Out: 5.295 ± 0.332 $\chi^2/\text{NDF}: 2189.4/49$

All: 4.122 ± 0.242 $\chi^2/\text{NDF}: 6616.5/92$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1495.563 $\pm$ 0.373 χ^2 /NDF: 345211.7/19

Left Out: 1909.387 $\pm$ 0.321 χ^2 /NDF:1398498.0/24

Right Out: 1561.746 $\pm$ 0.344 χ^2 /NDF: 526957.2/24

Left In: 1954.236 $\pm$ 0.338 χ^2 /NDF:1044826.7/22

Left: 1930.697 $\pm$ 0.233 χ^2 /NDF: 2452584.2/47

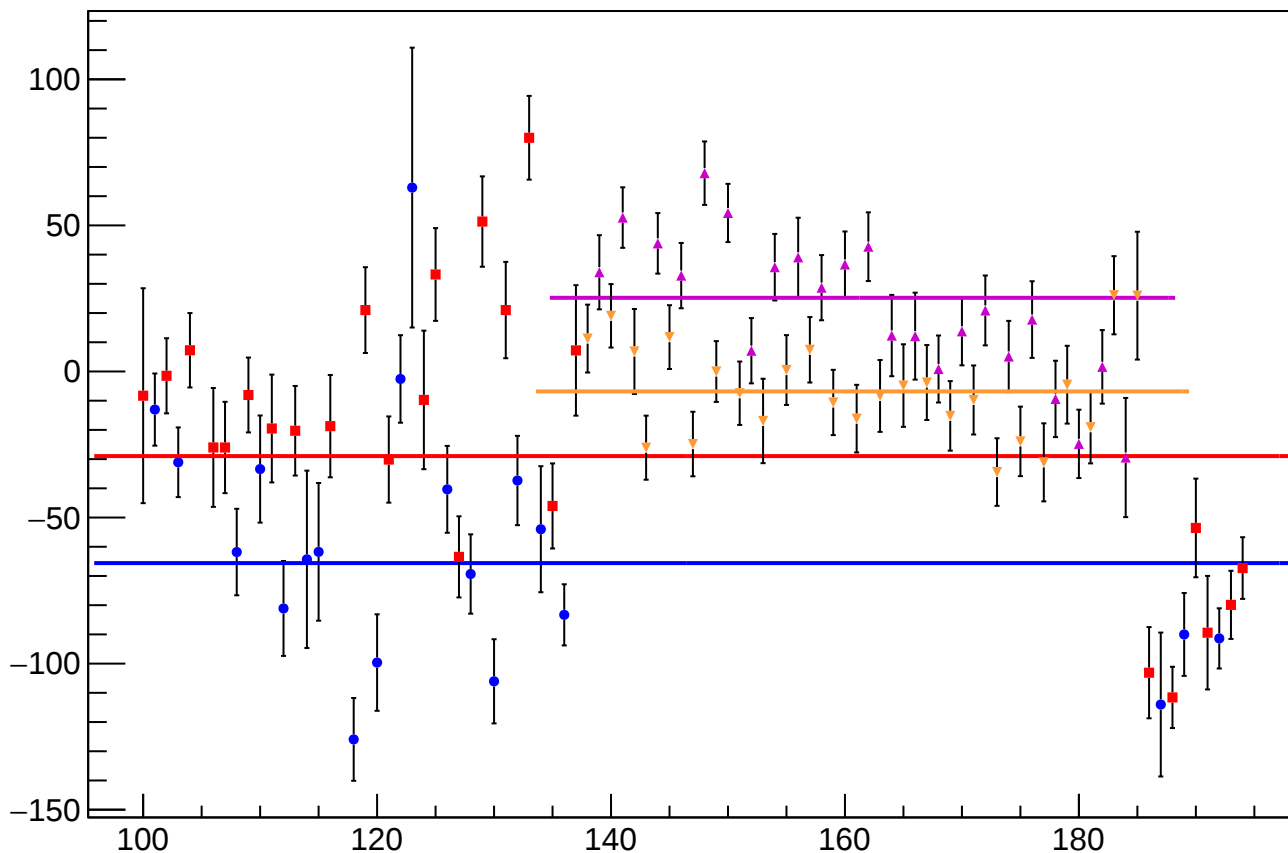
Right: 1531.262 $\pm$ 0.253 χ^2 /NDF: 889179.4/44

In: 1747.463 $\pm$ 0.250 χ^2 /NDF:2221884.8/42

Out: 1747.617 $\pm$ 0.235 χ^2 /NDF:2470277.0/49

All: 1747.545 $\pm$ 0.171 χ^2 /NDF: 4692162.0/92

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -65.590 ± 3.377 χ^2/NDF : 108.4/19

Left Out: -6.825 ± 2.423 χ^2/NDF : 42.3/24

Right Out: -28.966 ± 2.997 χ^2/NDF : 277.0/24

Left In: 25.215 ± 2.487 χ^2/NDF : 89.3/22

Left: 8.777 ± 1.735 χ^2/NDF : 216.8/47

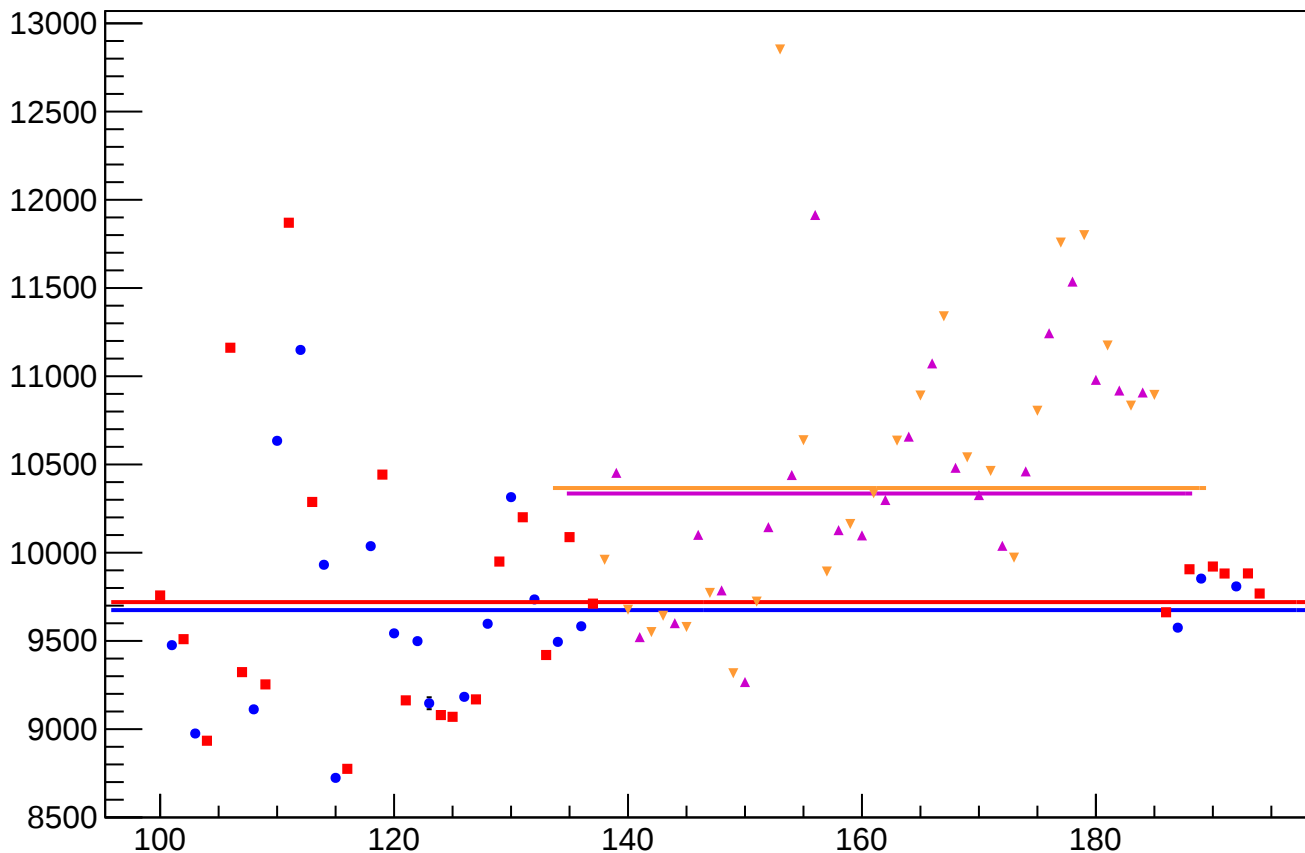
Right: -45.106 ± 2.242 χ^2/NDF : 451.1/44

In: -6.713 ± 2.002 χ^2/NDF : 666.6/42

Out: -15.573 ± 1.884 χ^2/NDF : 352.3/49

All: -11.412 ± 1.372 χ^2/NDF : 1029.2/92

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9674.672 $\pm$ 2.388 χ^2/NDF : 44796.8/19

Left Out: 10366.534 $\pm$ 1.713 χ^2/NDF : 211402.8/24

Right Out: 9720.031 $\pm$ 2.119 χ^2/NDF : 79310.2/24

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

Left: 10351.373 $\pm$ 1.227 χ^2/NDF : 338736.7/47

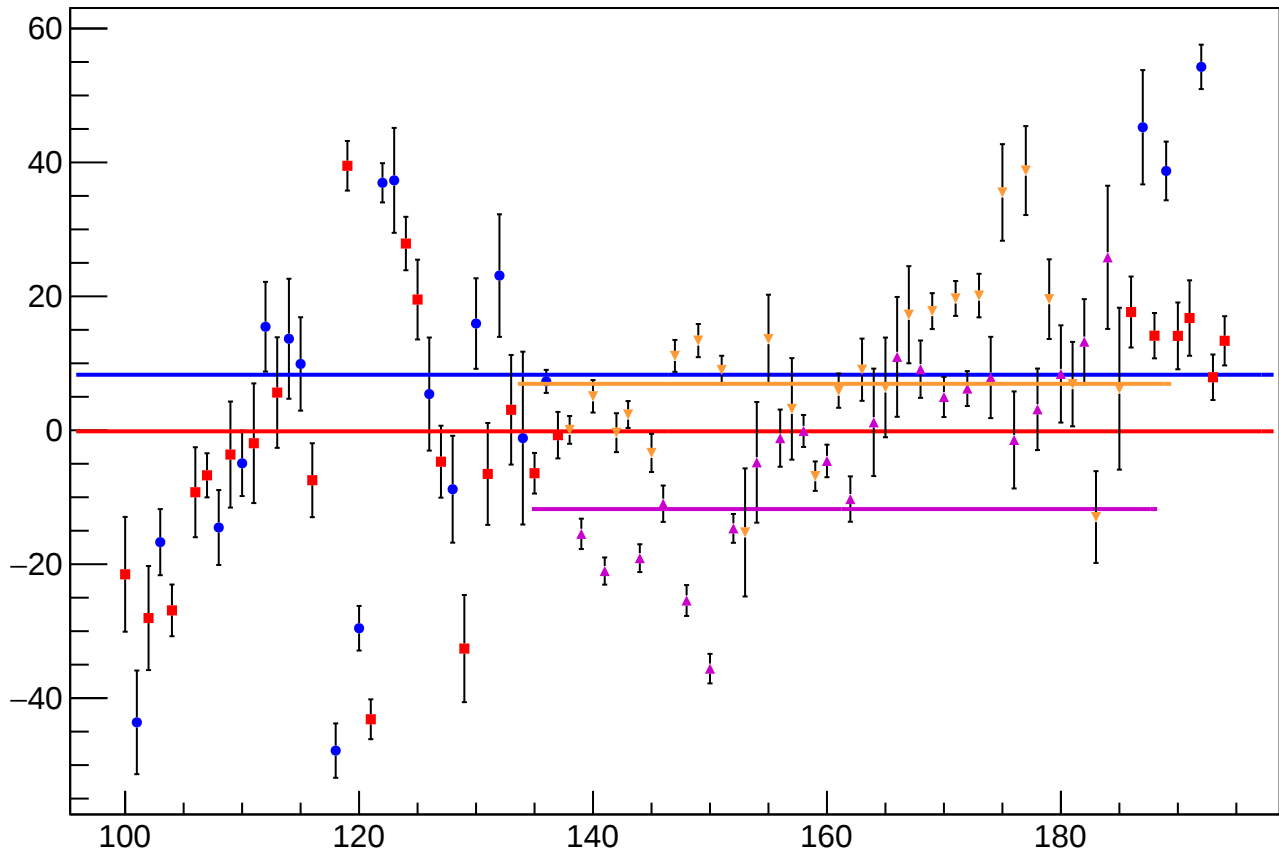
Right: 9700.041 $\pm$ 1.585 χ^2/NDF : 124308.9/44

In: 10103.078 $\pm$ 1.416 χ^2/NDF : 221621.0/42

Out: 10111.088 $\pm$ 1.332 χ^2/NDF : 346993.8/49

All: 10107.327 $\pm$ 0.970 χ^2/NDF : 568631.7/92

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 8.294 ± 0.983 $\chi^2/\text{NDF}: 794.8/19$

Left Out: 6.939 ± 0.639 $\chi^2/\text{NDF}: 203.8/24$

Right Out: -0.157 ± 0.915 $\chi^2/\text{NDF}: 546.7/24$

Left In: -11.766 ± 0.648 $\chi^2/\text{NDF}: 395.1/22$

Left: -2.274 ± 0.455 $\chi^2/\text{NDF}: 1021.3/47$

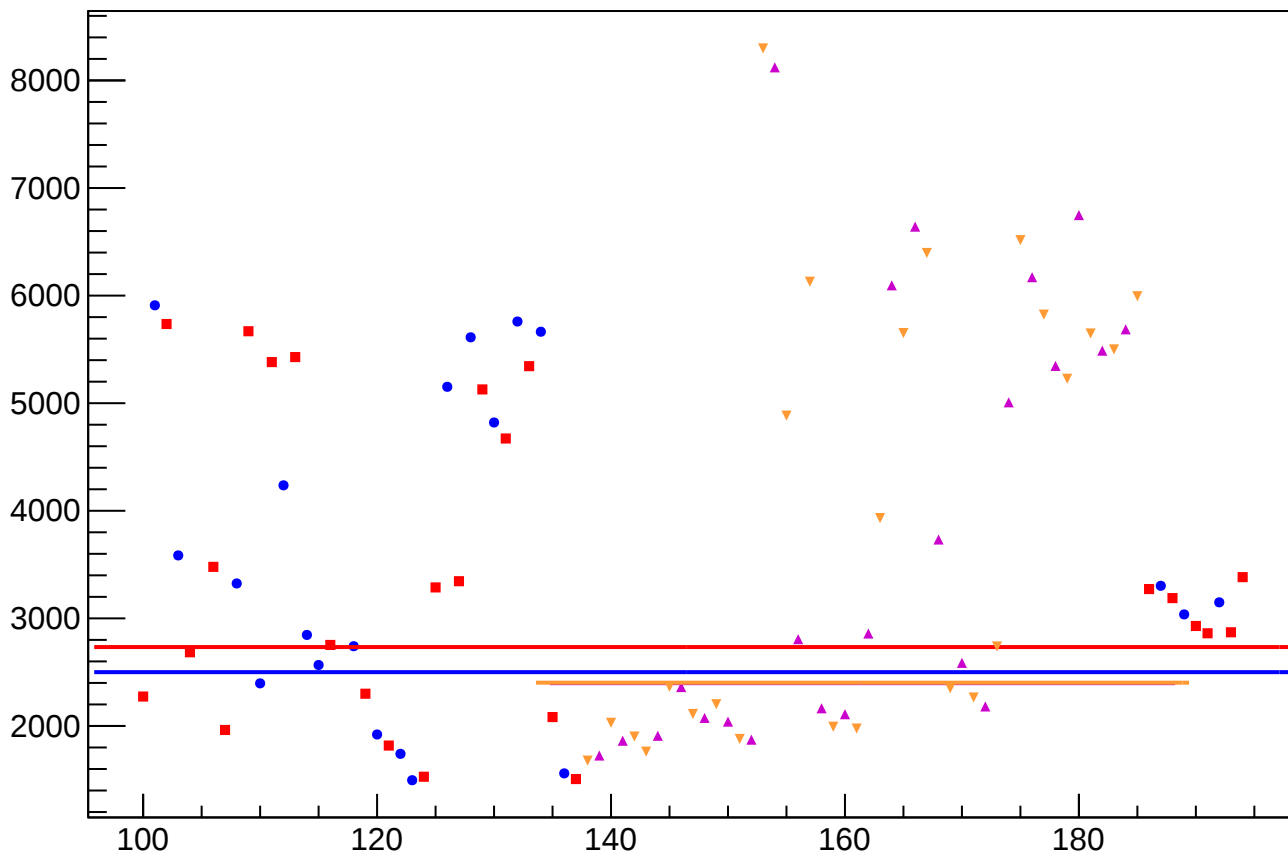
Right: 3.767 ± 0.670 $\chi^2/\text{NDF}: 1381.1/44$

In: -5.685 ± 0.541 $\chi^2/\text{NDF}: 1480.1/42$

Out: 4.615 ± 0.524 $\chi^2/\text{NDF}: 791.0/49$

All: -0.366 ± 0.376 $\chi^2/\text{NDF}: 2458.0/92$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2500.150 ± 0.695

χ^2/NDF : 2734869.0/19

Left: 2400.065 ± 0.322 χ^2/NDF : 11744955.3/47

Right: 2625.118 ± 0.474 χ^2/NDF : 5321698.4/44

Left Out: 2402.359 ± 0.452

χ^2/NDF : 6345982.8/24

In: 2428.758 ± 0.383 χ^2/NDF : 8148927.1/42

Out: 2510.812 ± 0.370 χ^2/NDF : 9048479.6/49

Right Out: 2733.425 ± 0.647

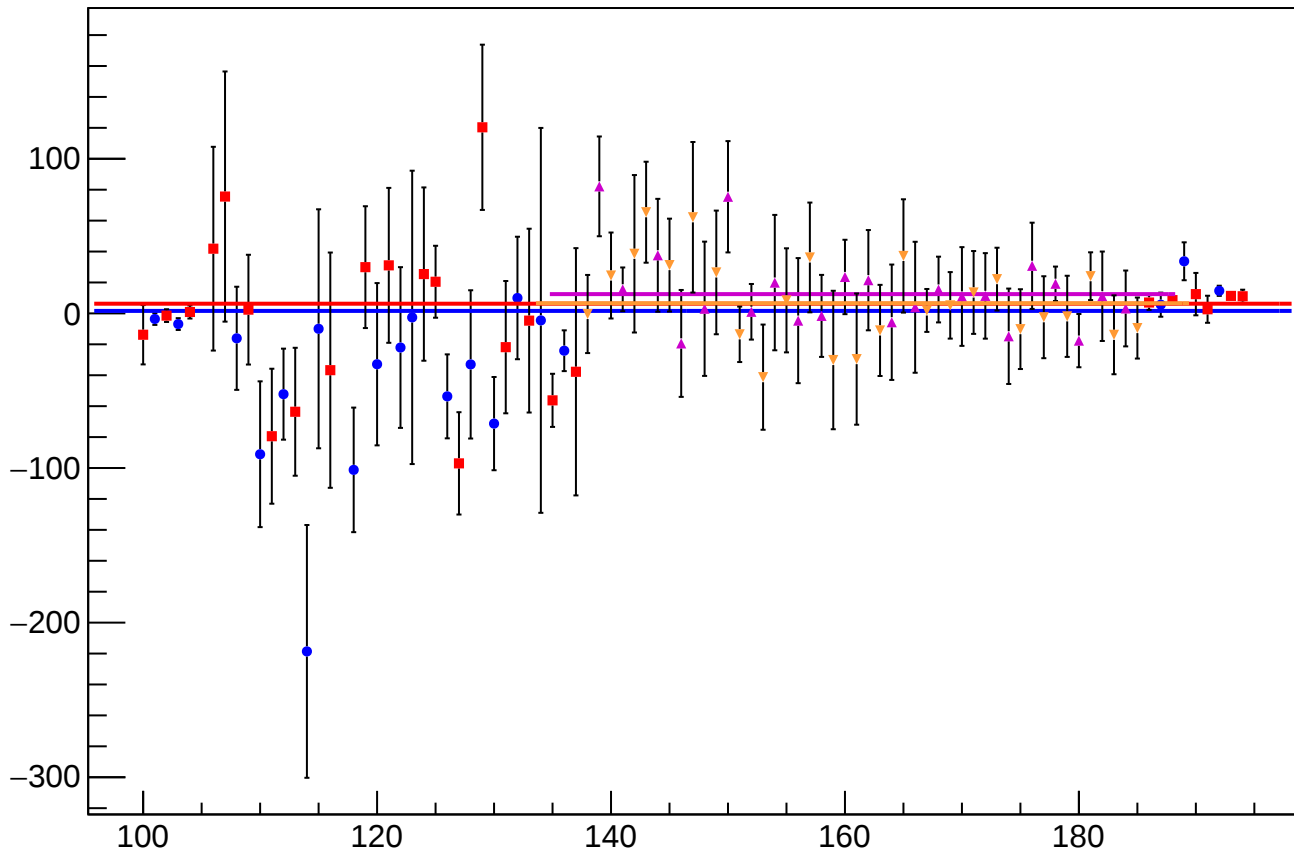
χ^2/NDF : 2526493.1/24

Left In: 2397.701 ± 0.458

χ^2/NDF : 5398920.1/22

All: 2471.129 ± 0.266 χ^2/NDF : 17221144.2/9

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 1.605+/-1.943 χ^2/NDF : 65.9/19

Left Out: 6.560+/-5.077 χ^2/NDF :16.8/24

Right Out: 6.265+/-1.456 χ^2/NDF : 48.8/24

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

Left: 9.545+/-3.572 χ^2/NDF : 32.8/47

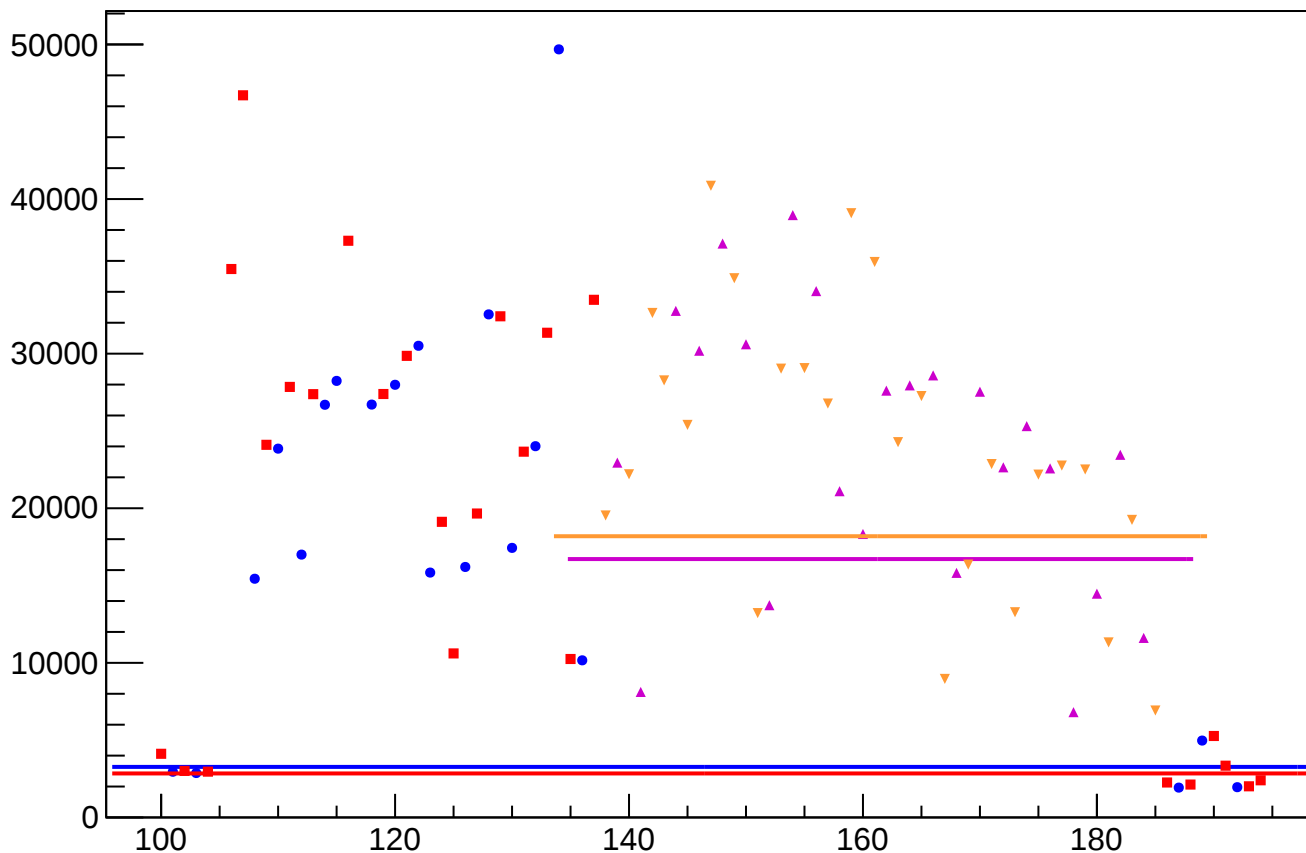
Right: 4.589+/-1.165 χ^2/NDF : 118.4/44

In: 3.017+/-1.812 χ^2/NDF :85.3/42

Out: 6.288+/-1.399 χ^2/NDF :65.6/49

All: 5.066+/-1.108 χ^2/NDF : 152.9/92

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 3270.413+/-1.374 χ^2/NDF : 6625298.5/19

Left Out: 18190.387+/-3.590 χ^2/NDF : 5261328.5/24

Right Out: 2846.429+/-1.029 χ^2/NDF : 8447763.1/24

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

Left: 17444.397+/-2.526 χ^2/NDF : 11540970.2/47

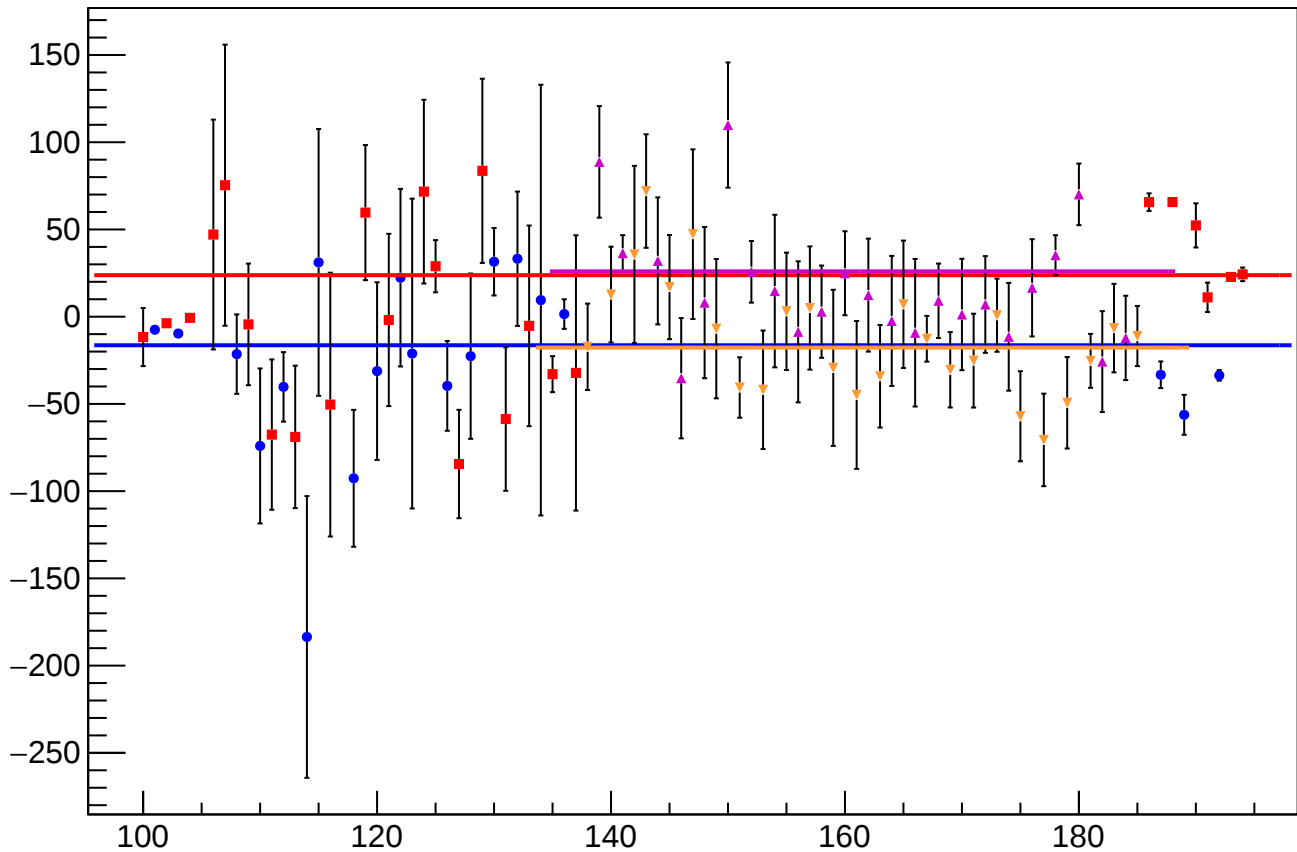
Right: 2998.906+/-0.824 χ^2/NDF : 15134069.2/44

In: 5018.147+/-1.281 χ^2/NDF : 25271296.3/42

Out: 4011.993+/-0.990 χ^2/NDF : 30586532.3/49

All: 4387.914+/-0.783 χ^2/NDF : 56244110.0/95

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -16.370 ± 1.490 $\chi^2/\text{NDF}: 92.9/19$

Left Out: -17.717 ± 4.974 $\chi^2/\text{NDF}: 27.2/24$

Right Out: 23.784 ± 1.227 $\chi^2/\text{NDF}: 553.0/24$

Left In: 25.991 ± 4.789 $\chi^2/\text{NDF}: 32.6/22$

Left: 4.967 ± 3.450 $\chi^2/\text{NDF}: 99.8/47$

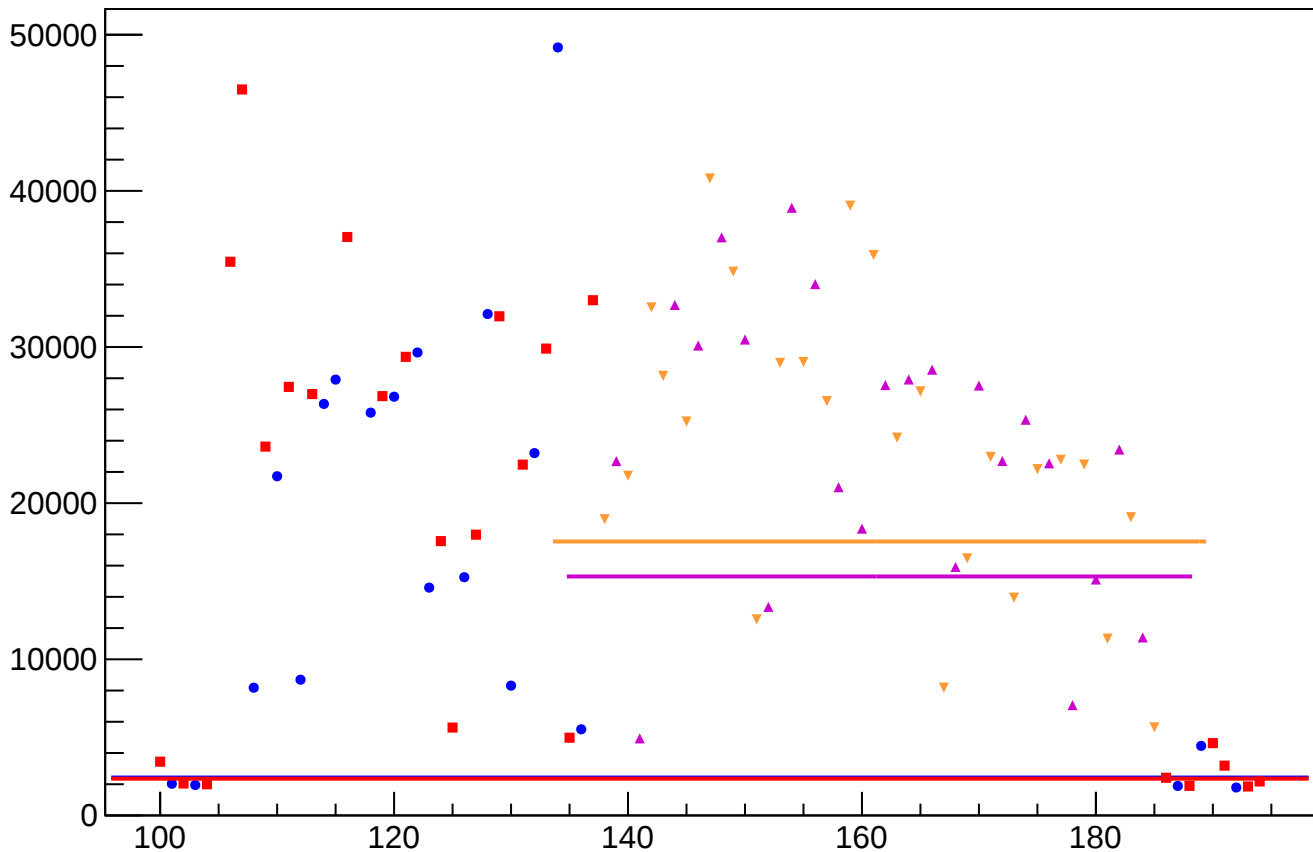
Right: 7.564 ± 0.947 $\chi^2/\text{NDF}: 1078.6/44$

In: -12.629 ± 1.423 $\chi^2/\text{NDF}: 196.9/42$

Out: 21.404 ± 1.191 $\chi^2/\text{NDF}: 645.8/49$

All: 7.382 ± 0.913 $\chi^2/\text{NDF}: 1178.9/92$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2427.284 $\pm$ 1.054 χ^2/NDF : 5756430.7/19

Left Out: 17546.173 $\pm$ 3.517 χ^2/NDF : 5902620.4/24

Right Out: 2355.894 $\pm$ 0.868 χ^2/NDF : 8118467.7/24

Left In: 15305.311 $\pm$ 3.386 χ^2/NDF : 7721177.0/22

Left: 16383.216 $\pm$ 2.439 χ^2/NDF : 13834445.4/47

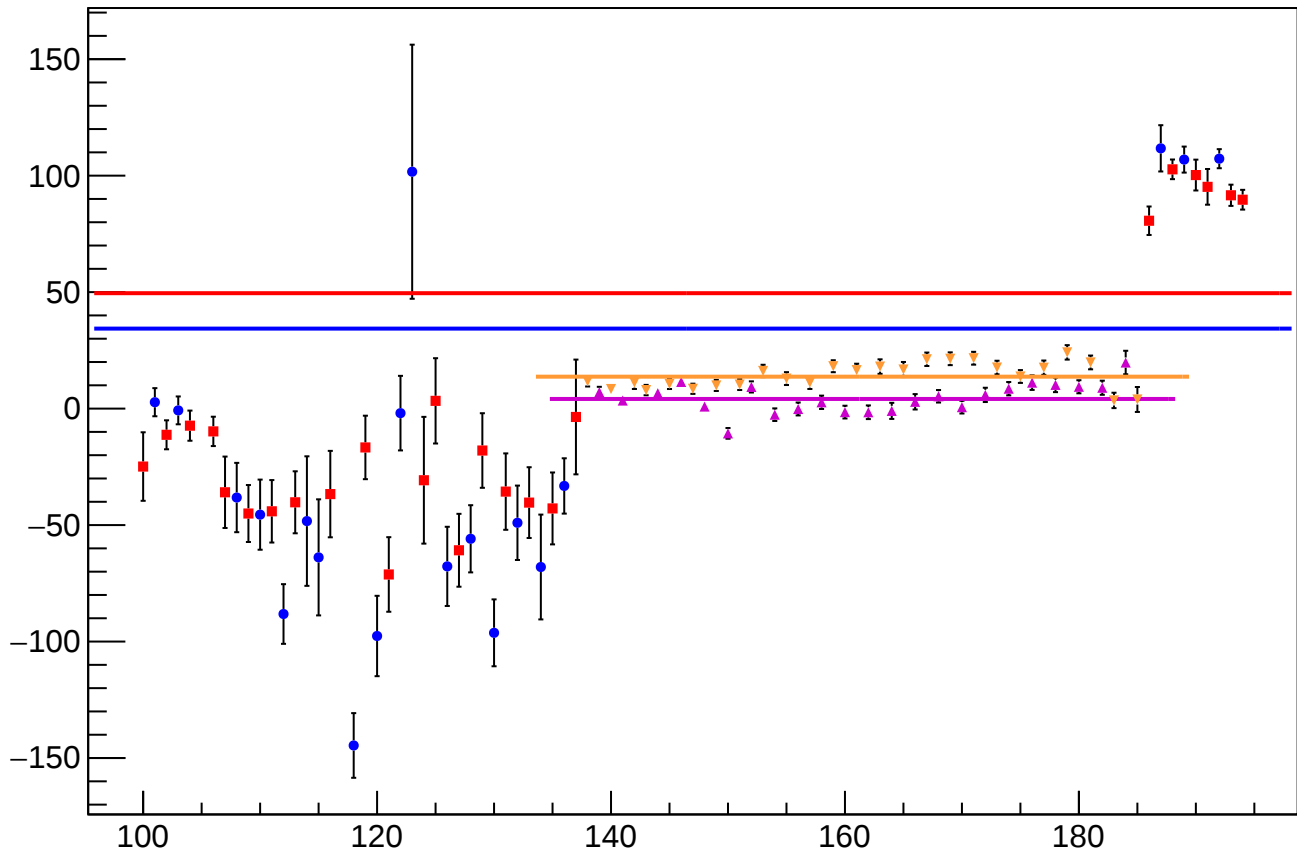
Right: 2384.732 $\pm$ 0.670 χ^2/NDF : 13877633.5/44

In: 3564.449 $\pm$ 1.006 χ^2/NDF : 26663552.7/42

Out: 3227.076 $\pm$ 0.842 χ^2/NDF : 31602752.6/49

All: 3366.079 $\pm$ 0.646 χ^2/NDF : 58332401.0/99

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 34.341 ± 2.161 $\chi^2/\text{NDF}: 1246.1/19$

Left Out: 13.710 ± 0.535 $\chi^2/\text{NDF}: 89.9/24$

Right Out: 49.546 ± 1.651 $\chi^2/\text{NDF}: 1213.1/24$

Left In: 4.141 ± 0.555 $\chi^2/\text{NDF}: 111.7/22$

Left: 9.097 ± 0.385 $\chi^2/\text{NDF}: 355.6/47$

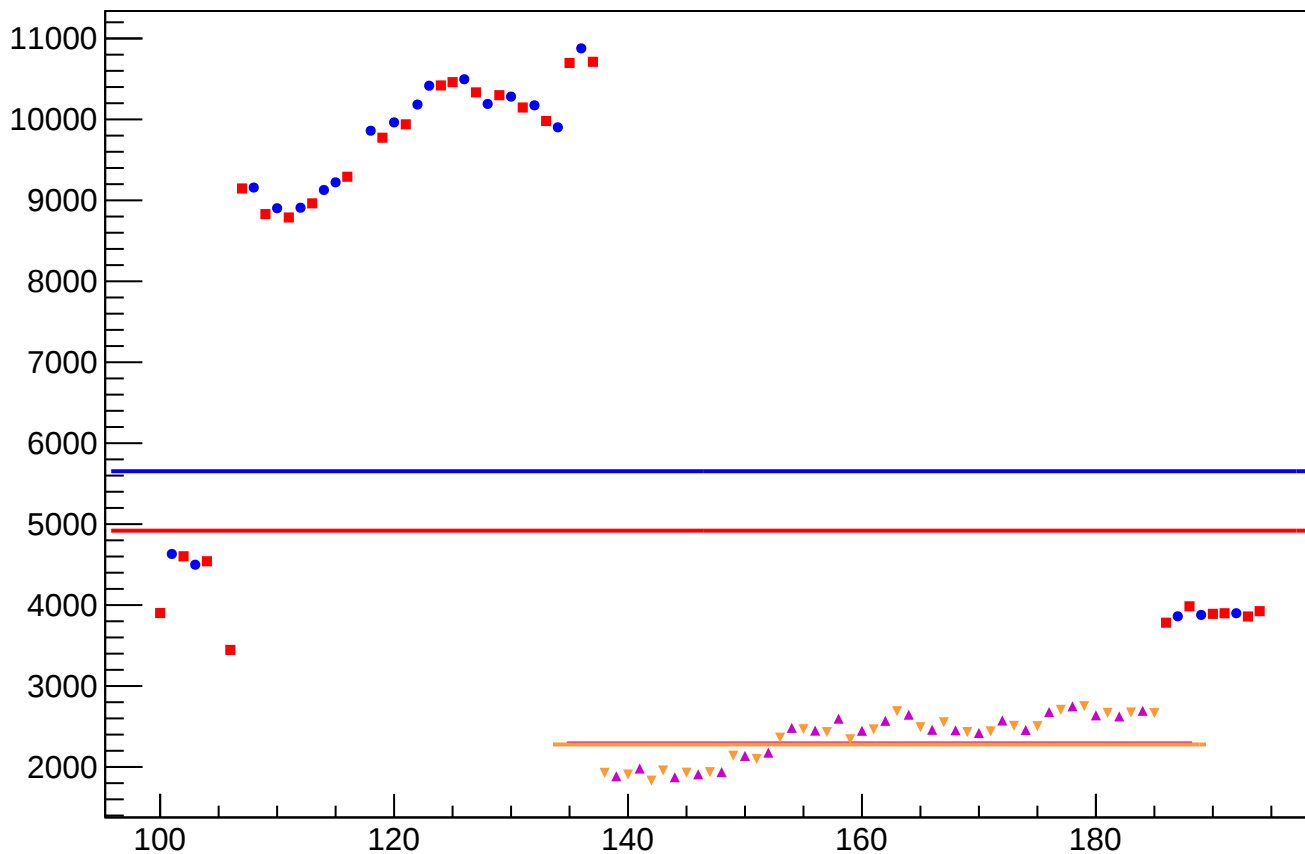
Right: 43.941 ± 1.312 $\chi^2/\text{NDF}: 2490.5/44$

In: 6.008 ± 0.537 $\chi^2/\text{NDF}: 1540.9/42$

Out: 17.117 ± 0.509 $\chi^2/\text{NDF}: 1729.2/49$

All: 11.862 ± 0.370 $\chi^2/\text{NDF}: 3495.4/92$

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 5653.632+/-1.528 χ^2/NDF : 2842703.0/19

Left Out: 2278.115+/-0.378 χ^2/NDF : 607109.4/24

Right Out: 4919.281+/-1.168 χ^2/NDF : 3416994.2/24

Left In: 2290.461+/-0.392 χ^2/NDF : 590272.1/22

Left: 2284.067+/-0.272 χ^2/NDF : 1197894.4/47

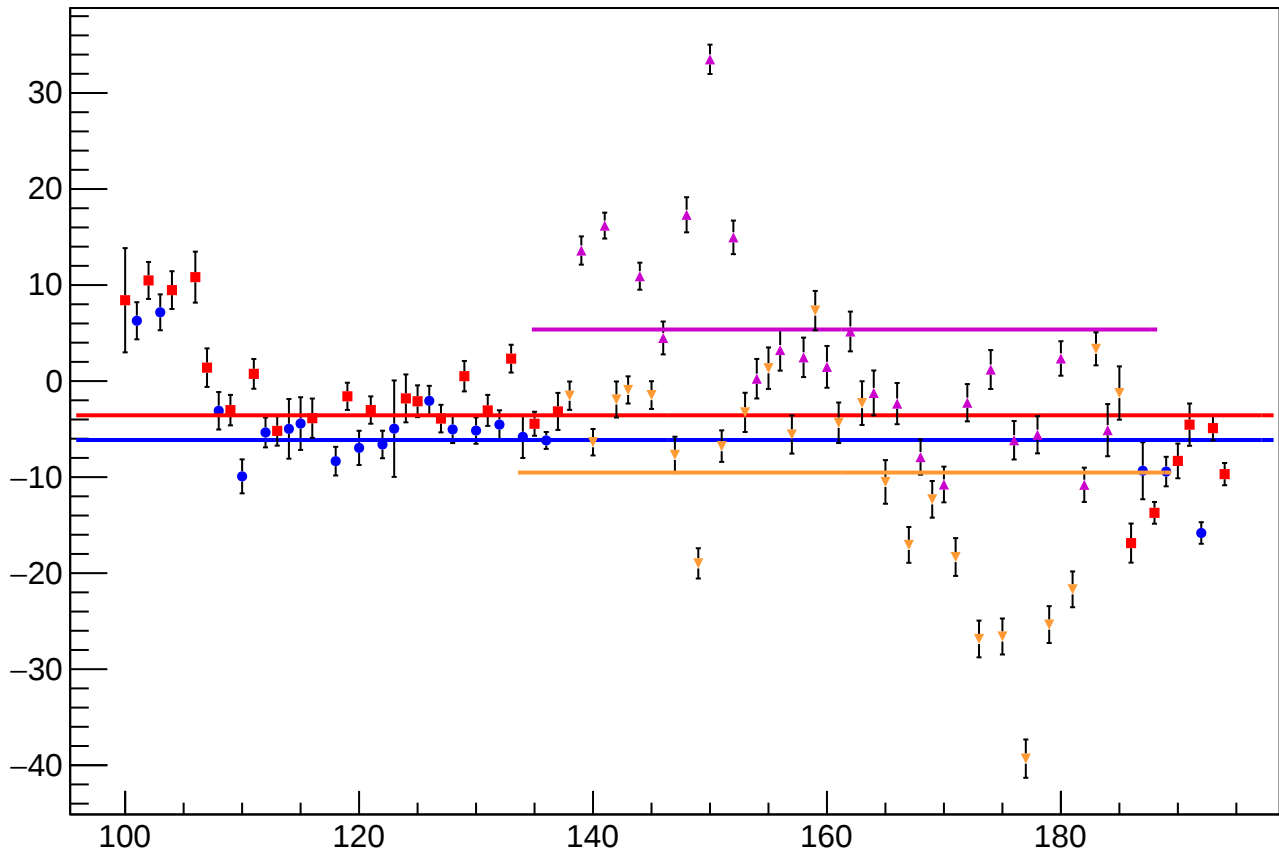
Right: 5189.955+/-0.928 χ^2/NDF : 6405504.8/44

In: 2498.400+/-0.380 χ^2/NDF : 7976999.8/42

Out: 2529.256+/-0.360 χ^2/NDF : 8654611.0/49

All: 2514.659+/-0.261 χ^2/NDF : 16635085.3/99

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -6.136 ± 0.358 χ^2/NDF : 191.4/19

Left Out: -9.524 ± 0.365 χ^2/NDF : 884.1/24

Right Out: -3.563 ± 0.325 χ^2/NDF : 333.0/24

Left In: 5.372 ± 0.383 χ^2/NDF : 869.8/22

Left: -2.437 ± 0.264 χ^2/NDF : 2547.3/47

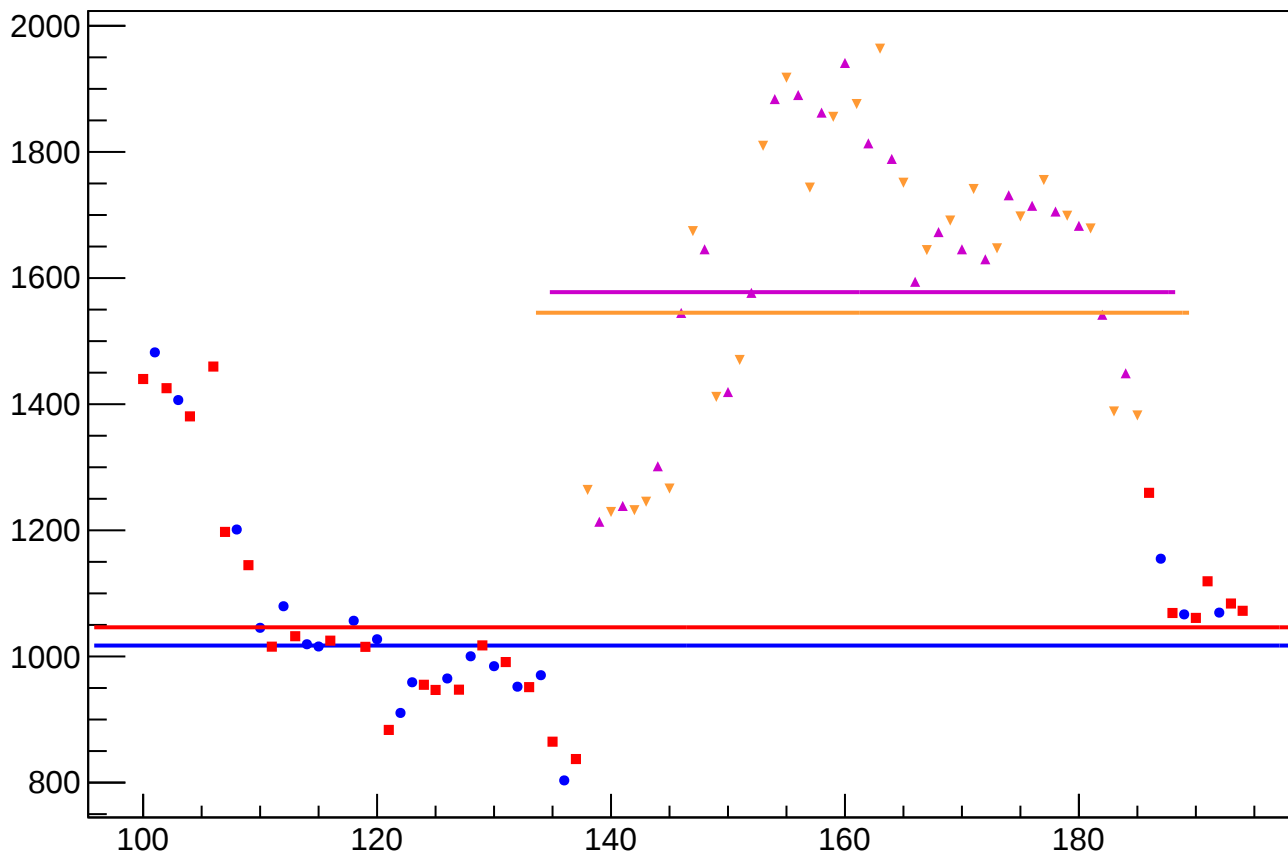
Right: -4.723 ± 0.241 χ^2/NDF : 552.7/44

In: -0.765 ± 0.262 χ^2/NDF : 1542.9/42

Out: -6.197 ± 0.242 χ^2/NDF : 1366.1/49

All: -3.686 ± 0.178 χ^2/NDF : 3141.0/92

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1017.297 $\pm$ 0.253 χ^2/NDF : 374507.7/19

Left Out: 1545.053 $\pm$ 0.258 χ^2/NDF : 842722.3/24

Right Out: 1046.229 $\pm$ 0.230 χ^2/NDF : 366007.3/24

Left In: 1577.685 $\pm$ 0.271 χ^2/NDF : 625406.2/22

Left: 1560.578 $\pm$ 0.187 χ^2/NDF : 1475743.3/47

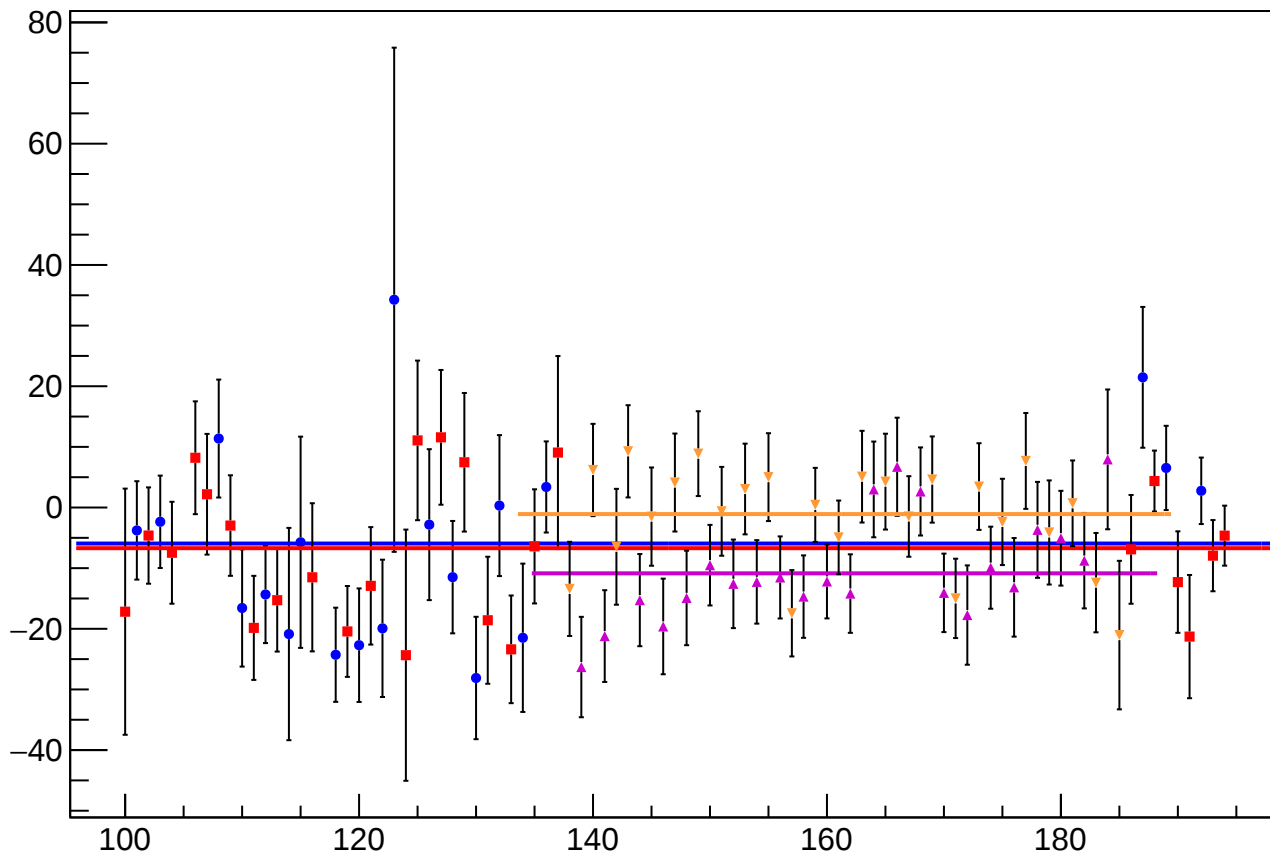
Right: 1033.184 $\pm$ 0.170 χ^2/NDF : 747679.7/44

In: 1278.837 $\pm$ 0.185 χ^2/NDF : 3284431.8/42

Out: 1266.666 $\pm$ 0.171 χ^2/NDF : 3295986.7/49

All: 1272.291 $\pm$ 0.126 χ^2/NDF : 6582747.2/92

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -5.938 $\pm$ 2.070 χ^2/NDF : 37.7/19

Left Out: -1.083 $\pm$ 1.487 χ^2/NDF : 27.5/24

Right Out: -6.706 $\pm$ 1.720 χ^2/NDF : 31.4/24

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

Left: -5.792 $\pm$ 1.070 χ^2/NDF : 72.7/47

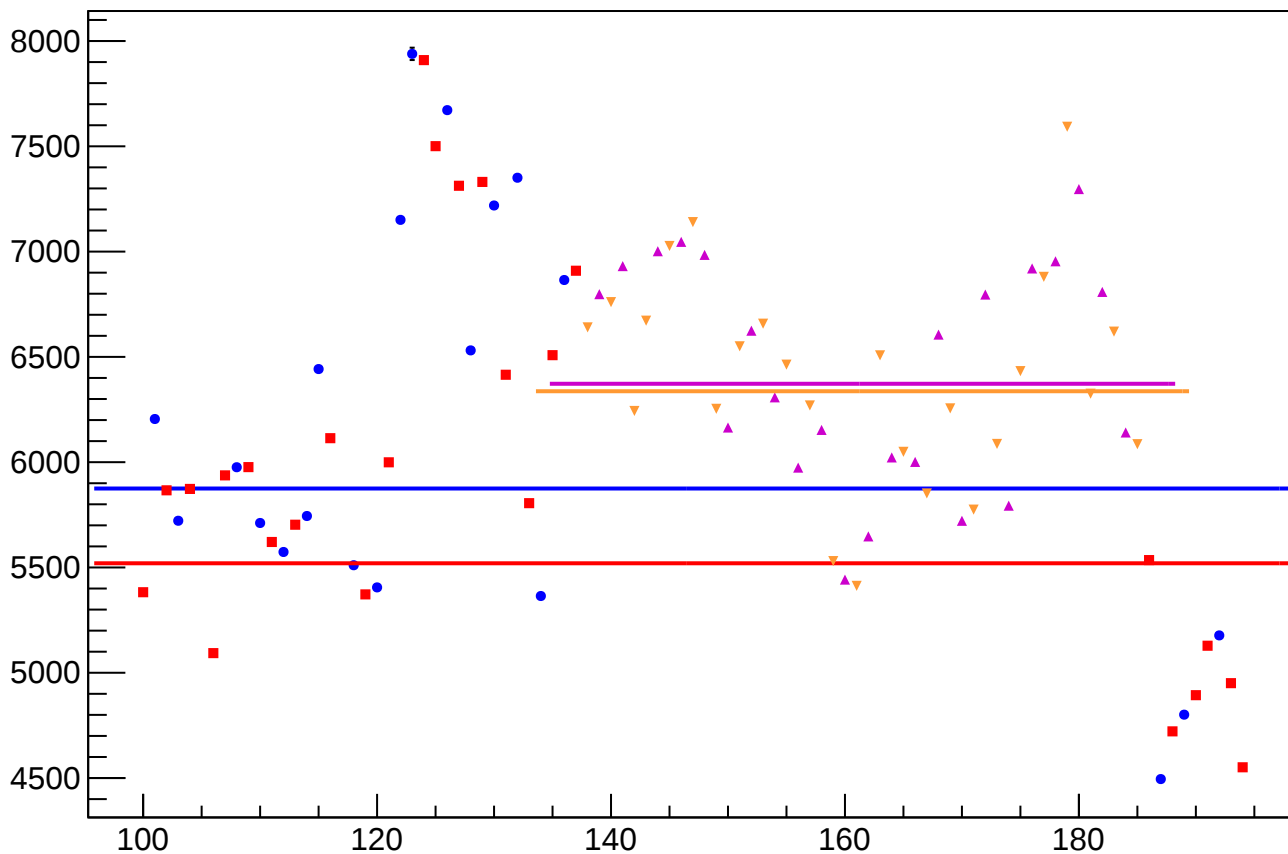
Right: -6.392 $\pm$ 1.323 χ^2/NDF : 69.2/44

In: -9.099 $\pm$ 1.236 χ^2/NDF : 65.7/42

Out: -3.489 $\pm$ 1.125 χ^2/NDF : 65.0/49

All: -6.029 $\pm$ 0.832 χ^2/NDF : 142.0/92

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5874.941 $\pm$ 1.464 χ^2/NDF : 315789.5/19

Left Out: 6336.876 $\pm$ 1.052 χ^2/NDF : 222912.5/24

Right Out: 5519.889 $\pm$ 1.216 χ^2/NDF : 421268.6/24

Left In: 6372.349 $\pm$ 1.090 χ^2/NDF : 247257.0/22

Left: 6353.974 $\pm$ 0.757 χ^2/NDF : 470718.0/47

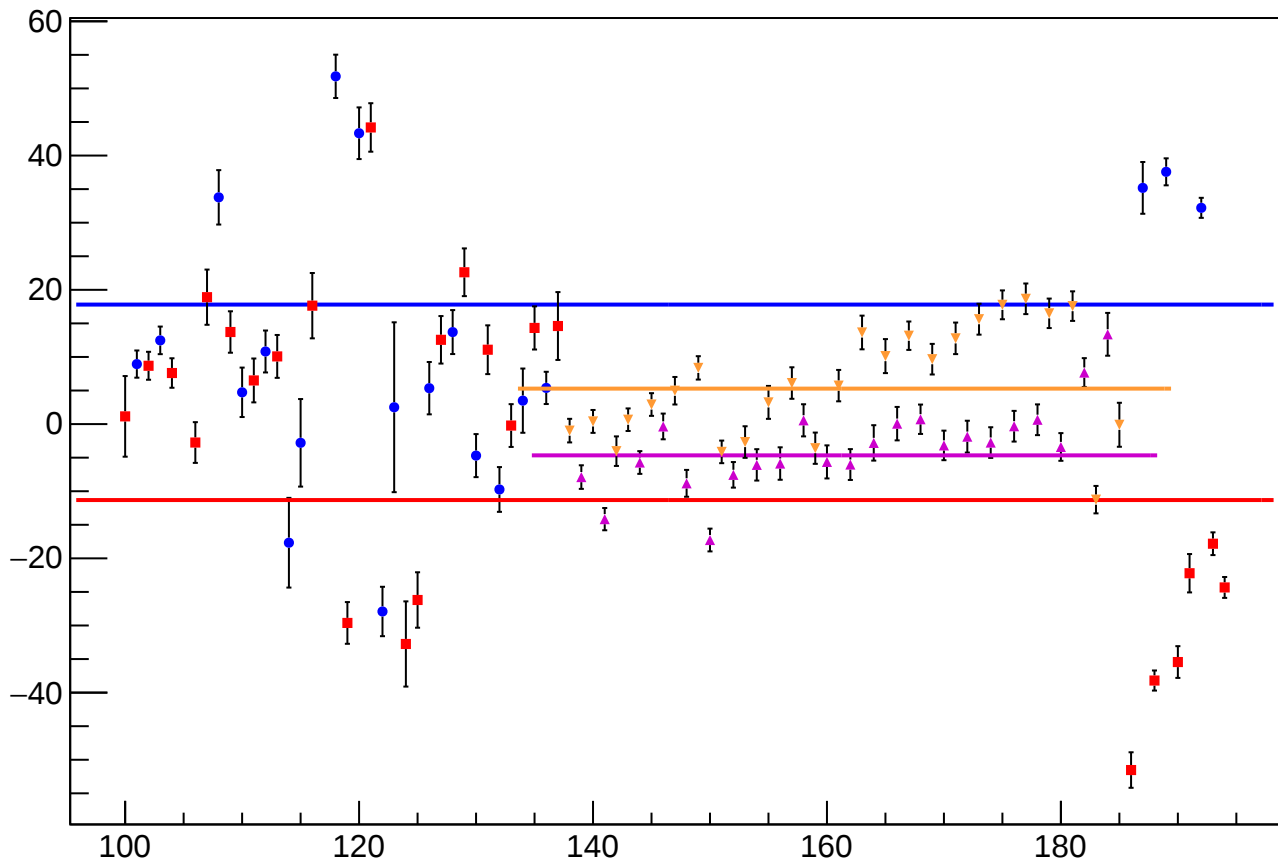
Right: 5664.846 $\pm$ 0.935 χ^2/NDF : 771867.3/44

In: 6194.915 $\pm$ 0.874 χ^2/NDF : 637317.0/42

Out: 5987.298 $\pm$ 0.795 χ^2/NDF : 902453.0/49

All: 6081.315 $\pm$ 0.588 χ^2/NDF : 1570623.5/92

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Left: 0.574 ± 0.305 $\chi^2/\text{NDF}: 827.2/47$

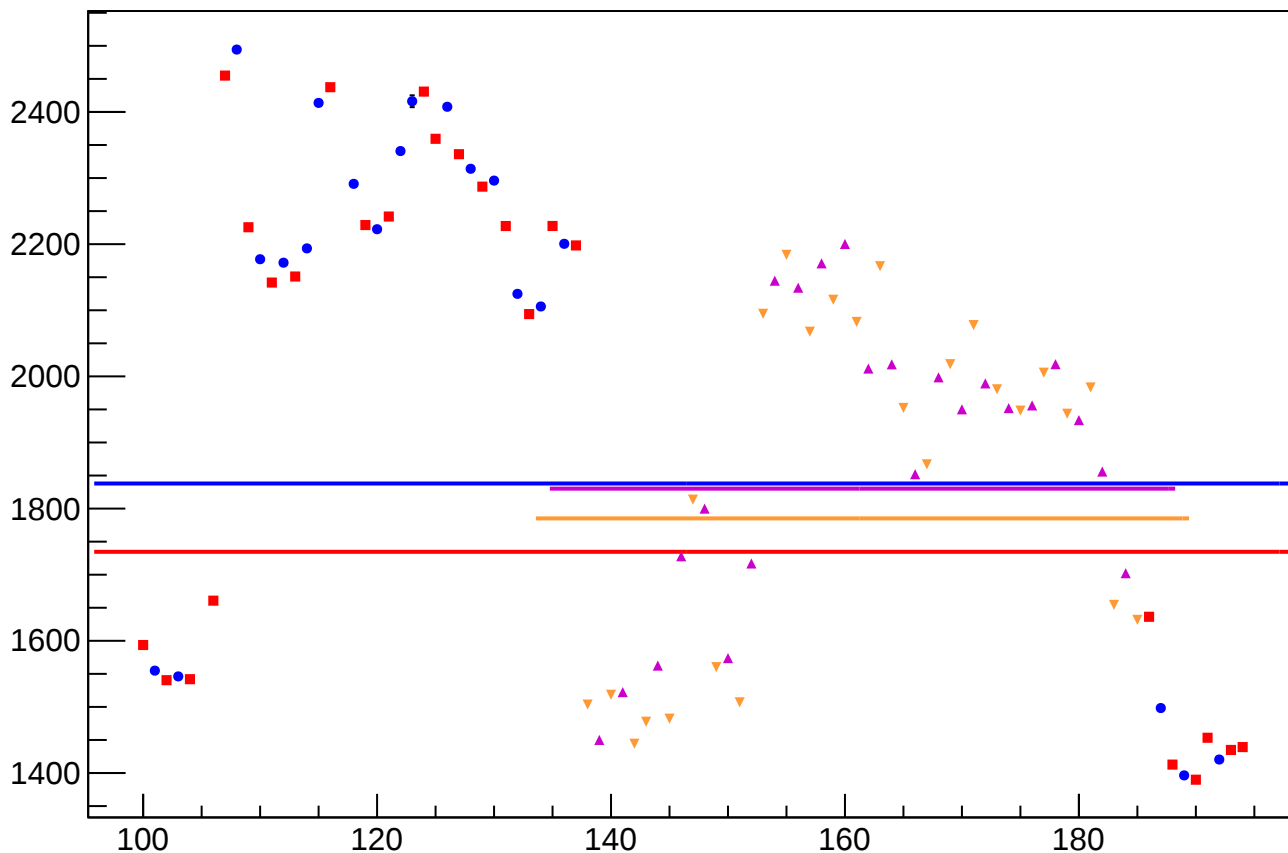
Right: 0.626 ± 0.419 $\chi^2/\text{NDF}: 3688.3/44$

In: 2.407 ± 0.367 $\chi^2/\text{NDF}: 1786.8/42$

Out: -0.903 ± 0.333 $\chi^2/\text{NDF}: 2684.1/49$

All: 0.592 ± 0.247 $\chi^2/\text{NDF}: 4515.5/92$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1837.960 ± 0.463 χ^2/NDF : 755072.5/19

Left Out: 1785.179 ± 0.297 χ^2/NDF : 750628.1/24

Right Out: 1734.638 ± 0.386 χ^2/NDF : 937878.0/24

Left In: 1830.160 ± 0.313 χ^2/NDF : 508391.9/22

Left: 1806.491 ± 0.216 χ^2/NDF : 1269853.4/47

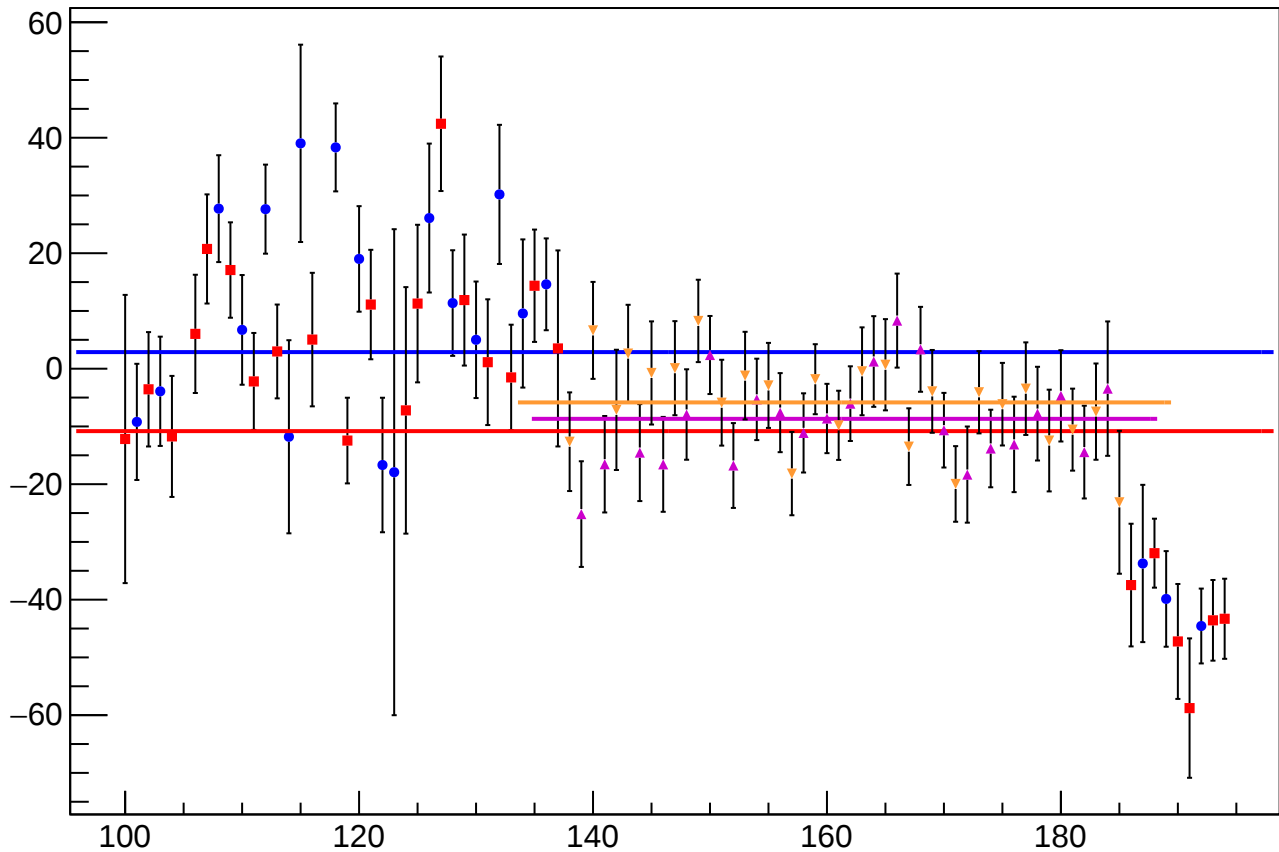
Right: 1777.011 ± 0.296 χ^2/NDF : 1722352.2/44

In: 1832.613 ± 0.260 χ^2/NDF : 1263659.1/42

Out: 1766.340 ± 0.236 χ^2/NDF : 1699266.4/49

All: 1796.278 ± 0.174 χ^2/NDF : 2998671.8/92

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.874 ± 2.208 $\chi^2/\text{NDF}: 151.9/19$

Left Out: -5.840 ± 1.518 $\chi^2/\text{NDF}: 23.3/24$

Right Out: -10.812 ± 1.908 $\chi^2/\text{NDF}: 166.2/24$

Left In: -8.683 ± 1.571 $\chi^2/\text{NDF}: 21.9/22$

Left: -7.214 ± 1.092 $\chi^2/\text{NDF}: 47.0/47$

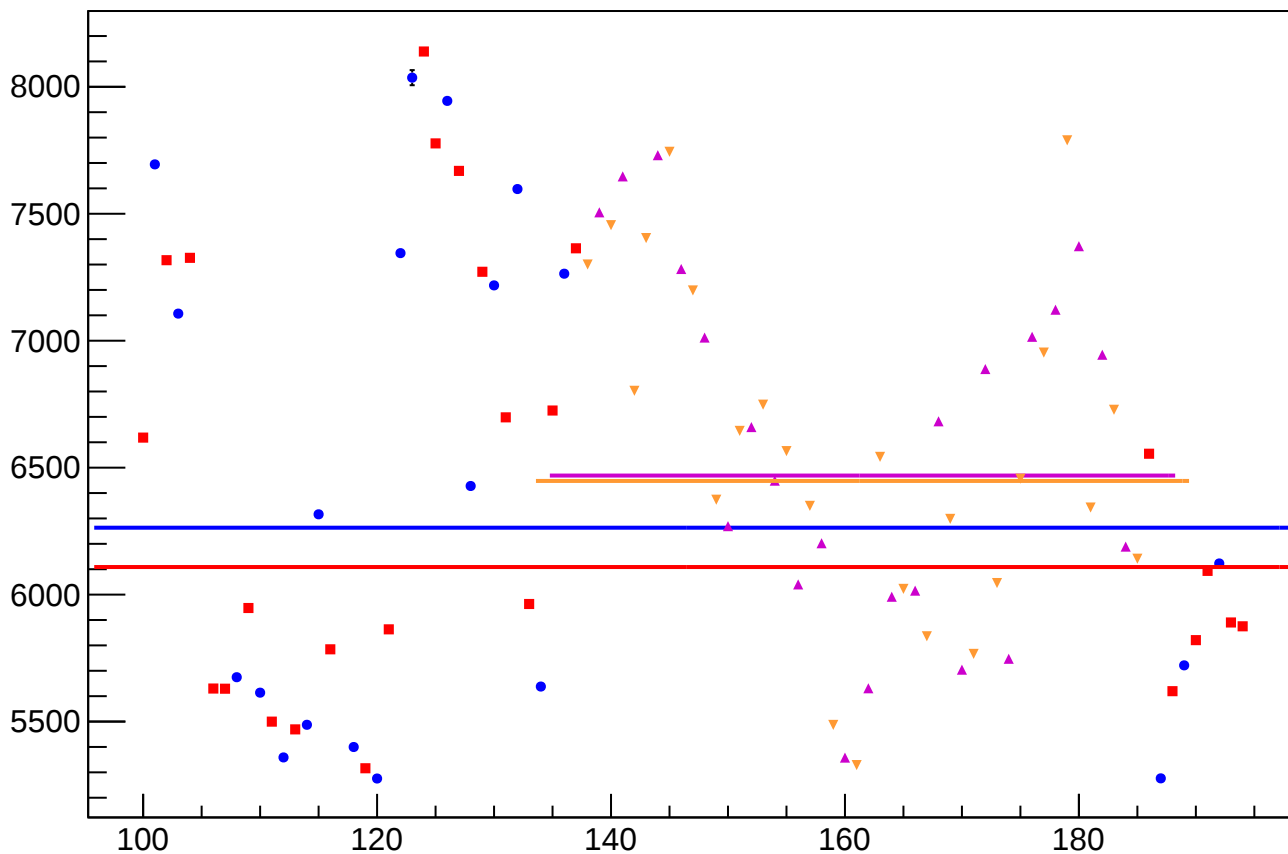
Right: -4.962 ± 1.444 $\chi^2/\text{NDF}: 340.1/44$

In: -4.800 ± 1.280 $\chi^2/\text{NDF}: 192.0/42$

Out: -7.768 ± 1.188 $\chi^2/\text{NDF}: 193.7/49$

All: -6.394 ± 0.871 $\chi^2/\text{NDF}: 388.6/92$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6263.546 $\pm$ 1.561 χ^2/NDF : 309006.2/19

Left Out: 6447.712 $\pm$ 1.074 χ^2/NDF : 371671.1/24

Right Out: 6108.618 $\pm$ 1.349 χ^2/NDF : 269579.6/24

Left In: 6468.902 $\pm$ 1.111 χ^2/NDF : 383325.4/22

Left: 6457.948 $\pm$ 0.772 χ^2/NDF : 755184.7/47

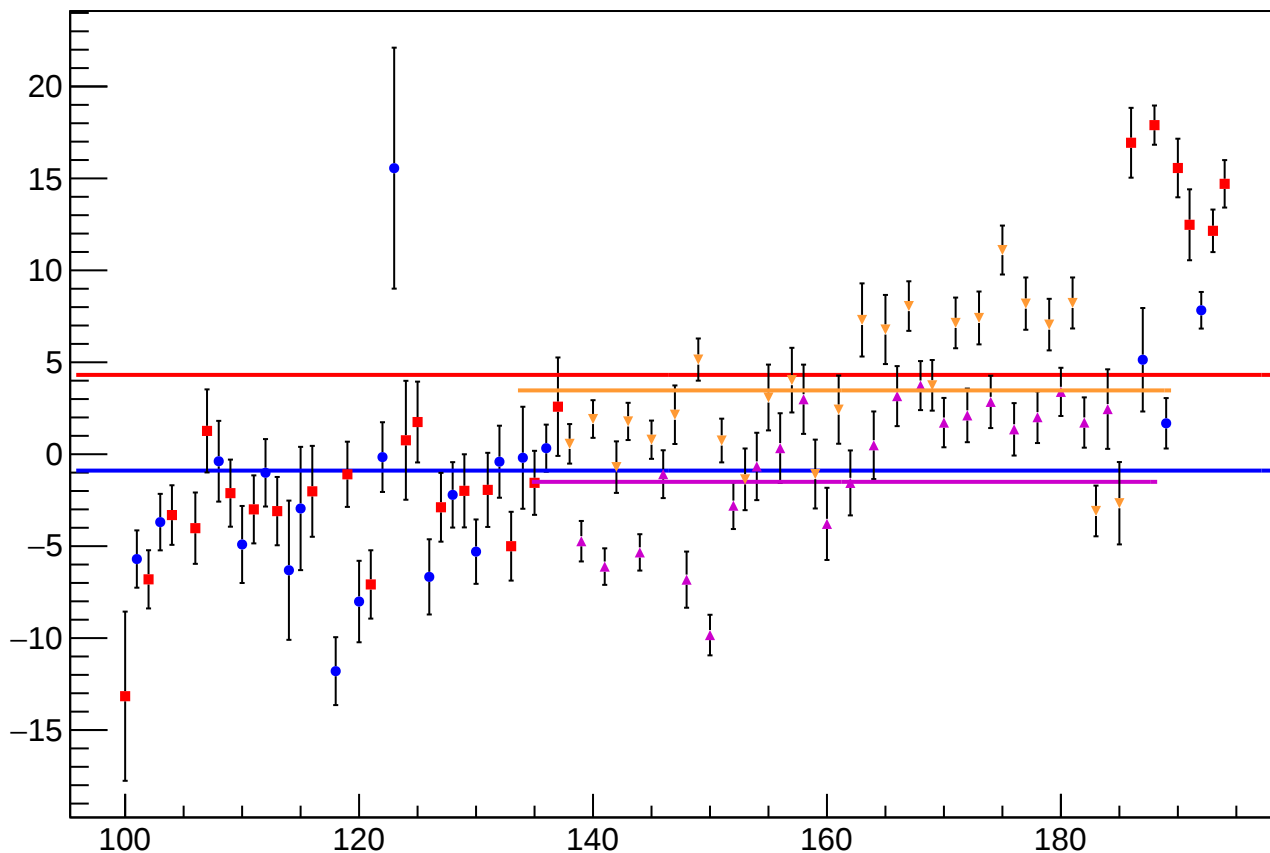
Right: 6174.845 $\pm$ 1.021 χ^2/NDF : 584223.3/44

In: 6399.908 $\pm$ 0.905 χ^2/NDF : 703819.3/42

Out: 6316.232 $\pm$ 0.840 χ^2/NDF : 679931.6/49

All: 6354.961 $\pm$ 0.616 χ^2/NDF : 1388343.2/92

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.890 ± 0.406 χ^2/NDF : 171.3/19

Left Out: 3.470 ± 0.276 χ^2/NDF : 176.0/24

Right Out: 4.314 ± 0.355 χ^2/NDF : 662.0/24

Left In: -1.502 ± 0.291 χ^2/NDF : 202.7/22

Left: 1.109 ± 0.200 χ^2/NDF : 532.4/47

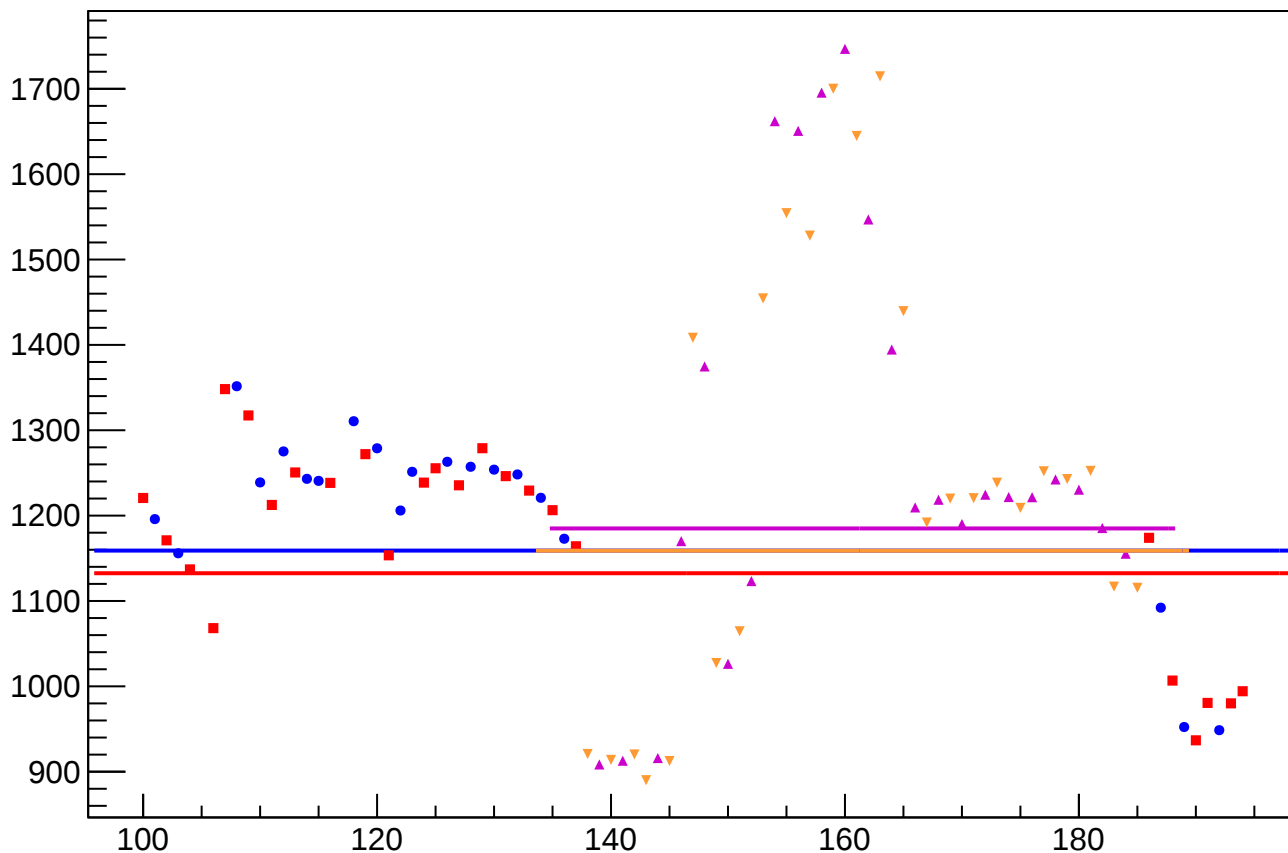
Right: 2.061 ± 0.267 χ^2/NDF : 926.6/44

In: -1.295 ± 0.236 χ^2/NDF : 375.5/42

Out: 3.789 ± 0.218 χ^2/NDF : 841.5/49

All: 1.452 ± 0.160 χ^2/NDF : 1467.2/92

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1159.029 $\pm$ 0.287 χ^2/NDF : 208828.2/19

Left Out: 1158.894 $\pm$ 0.195 χ^2/NDF : 1410423.6/24

Right Out: 1132.506 $\pm$ 0.251 χ^2/NDF : 240953.1/24

Left In: 1184.966 $\pm$ 0.206 χ^2/NDF : 1190431.5/22

Left: 1171.274 $\pm$ 0.142 χ^2/NDF : 2609306.9/47

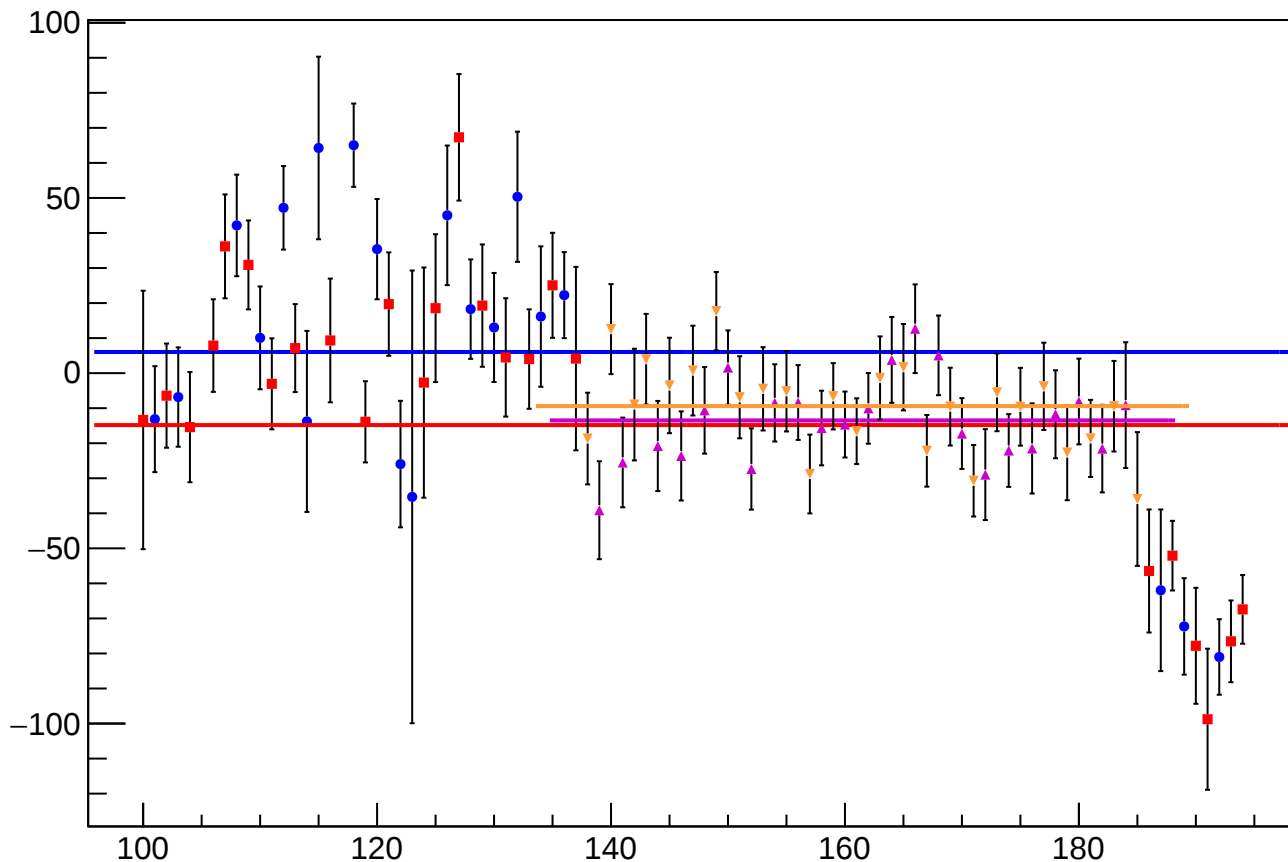
Right: 1143.991 $\pm$ 0.189 χ^2/NDF : 454625.5/44

In: 1176.172 $\pm$ 0.167 χ^2/NDF : 1404660.3/42

Out: 1148.923 $\pm$ 0.154 χ^2/NDF : 1658266.0/49

All: 1161.452 $\pm$ 0.113 χ^2/NDF : 3077294.4/92

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 6.040 ± 3.462 $\chi^2/\text{NDF}: 177.4/19$

Left Out: -9.398 ± 2.358 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -14.818 ± 2.955 $\chi^2/\text{NDF}: 185.6/24$

Left In: -13.485 ± 2.443 $\chi^2/\text{NDF}: 21.6/22$

Left: -11.369 ± 1.697 $\chi^2/\text{NDF}: 49.3/47$

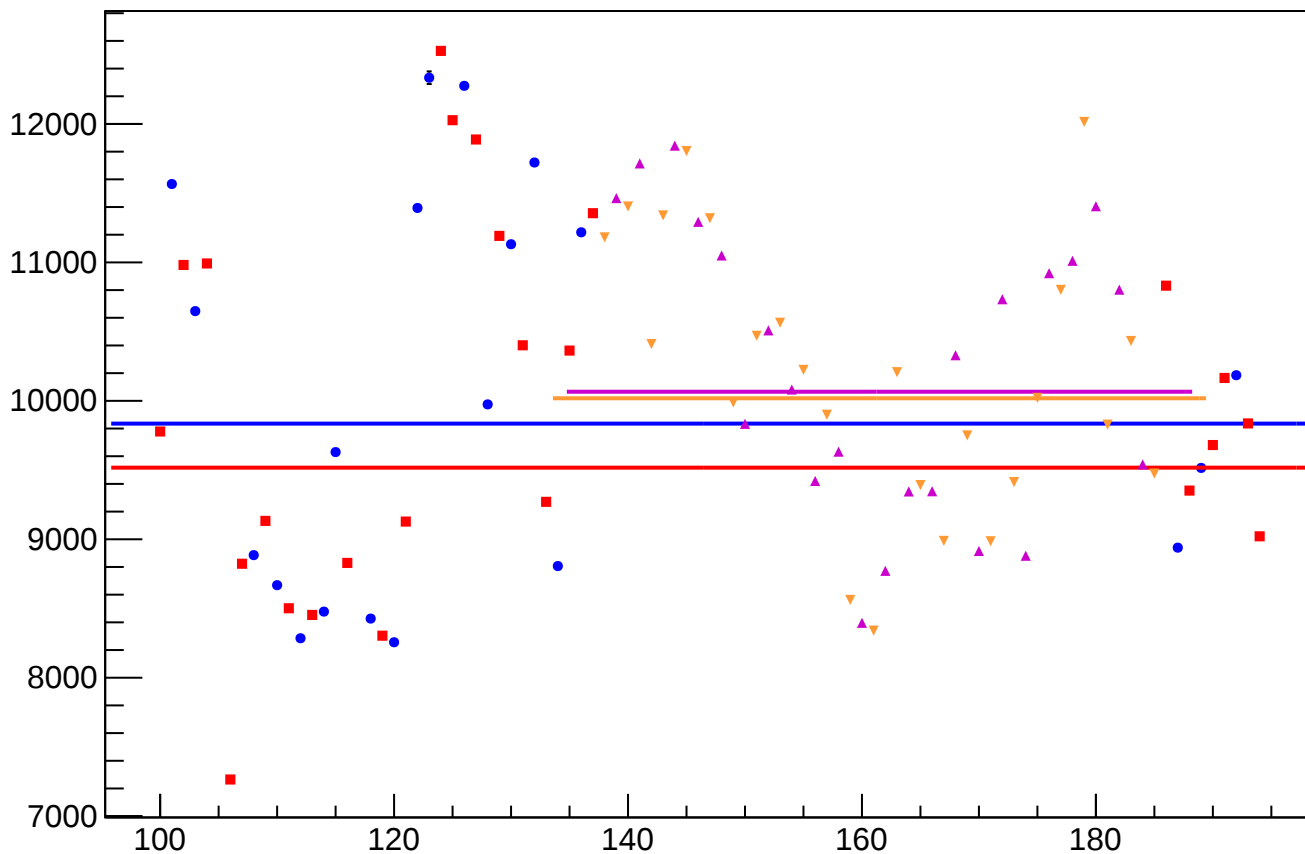
Right: -6.025 ± 2.248 $\chi^2/\text{NDF}: 383.9/44$

In: -6.995 ± 1.996 $\chi^2/\text{NDF}: 220.2/42$

Out: -11.507 ± 1.843 $\chi^2/\text{NDF}: 213.9/49$

All: -9.430 ± 1.354 $\chi^2/\text{NDF}: 436.8/92$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9835.598 $\pm$ 2.448 χ^2/NDF : 265312.6/19

Left Out: 10018.563 $\pm$ 1.668 χ^2/NDF :344534.6/24

Right Out: 9517.444 $\pm$ 2.090 χ^2/NDF : 295344.8/24

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

Left: 10041.404 $\pm$ 1.200 χ^2/NDF : 702792.3/47

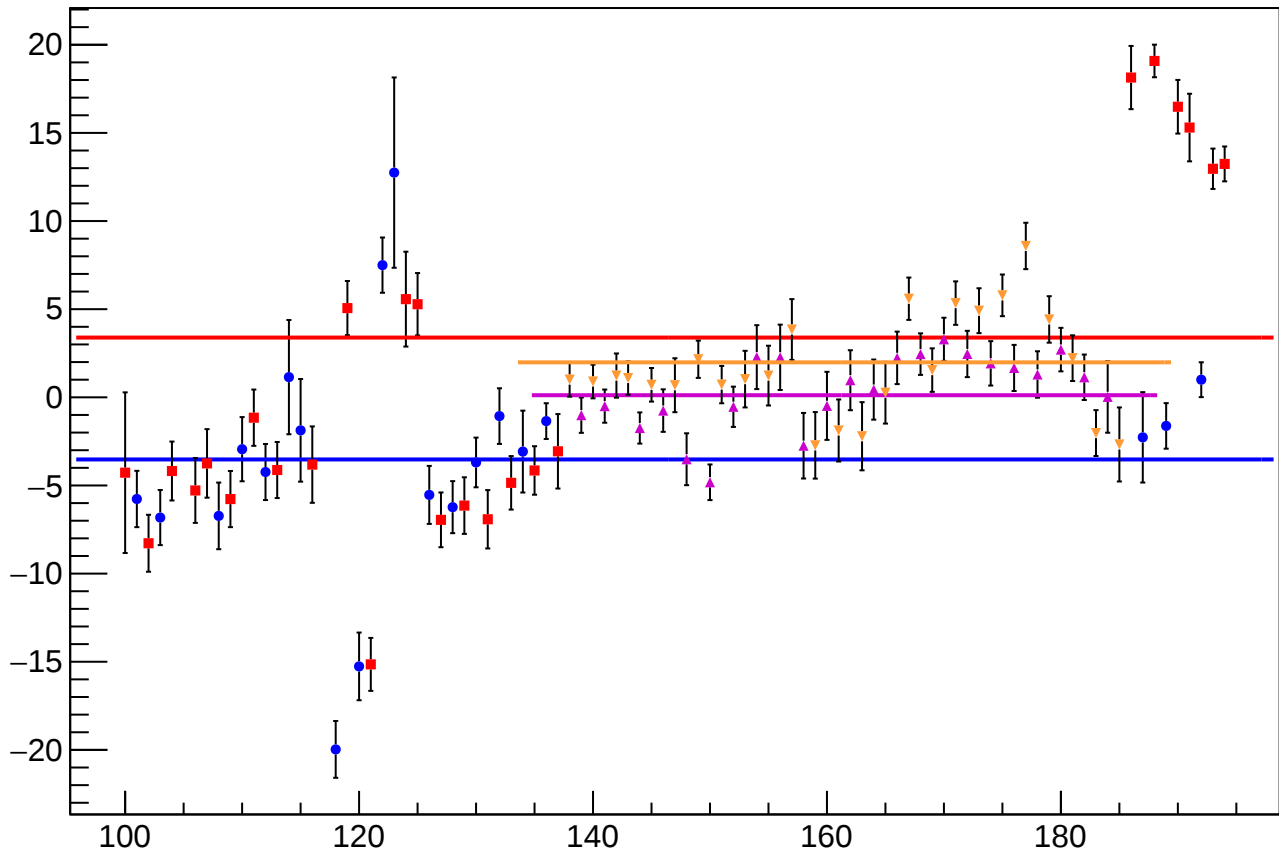
Right: 9651.560 $\pm$ 1.589 χ^2/NDF : 570428.4/44

In: 9989.354 $\pm$ 1.411 χ^2/NDF :629090.7/42

Out: 9823.587 $\pm$ 1.303 χ^2/NDF :675010.0/49

All: 9899.895 $\pm$ 0.958 χ^2/NDF : 1311545.5/92

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -3.524 ± 0.359 χ^2/NDF : 247.4/19

Left Out: 1.985 ± 0.255 χ^2/NDF : 101.2/24

Right Out: 3.390 ± 0.310 χ^2/NDF : 1166.2/24

Left In: 0.120 ± 0.269 χ^2/NDF : 67.6/22

Left: 1.102 ± 0.185 χ^2/NDF : 194.2/47

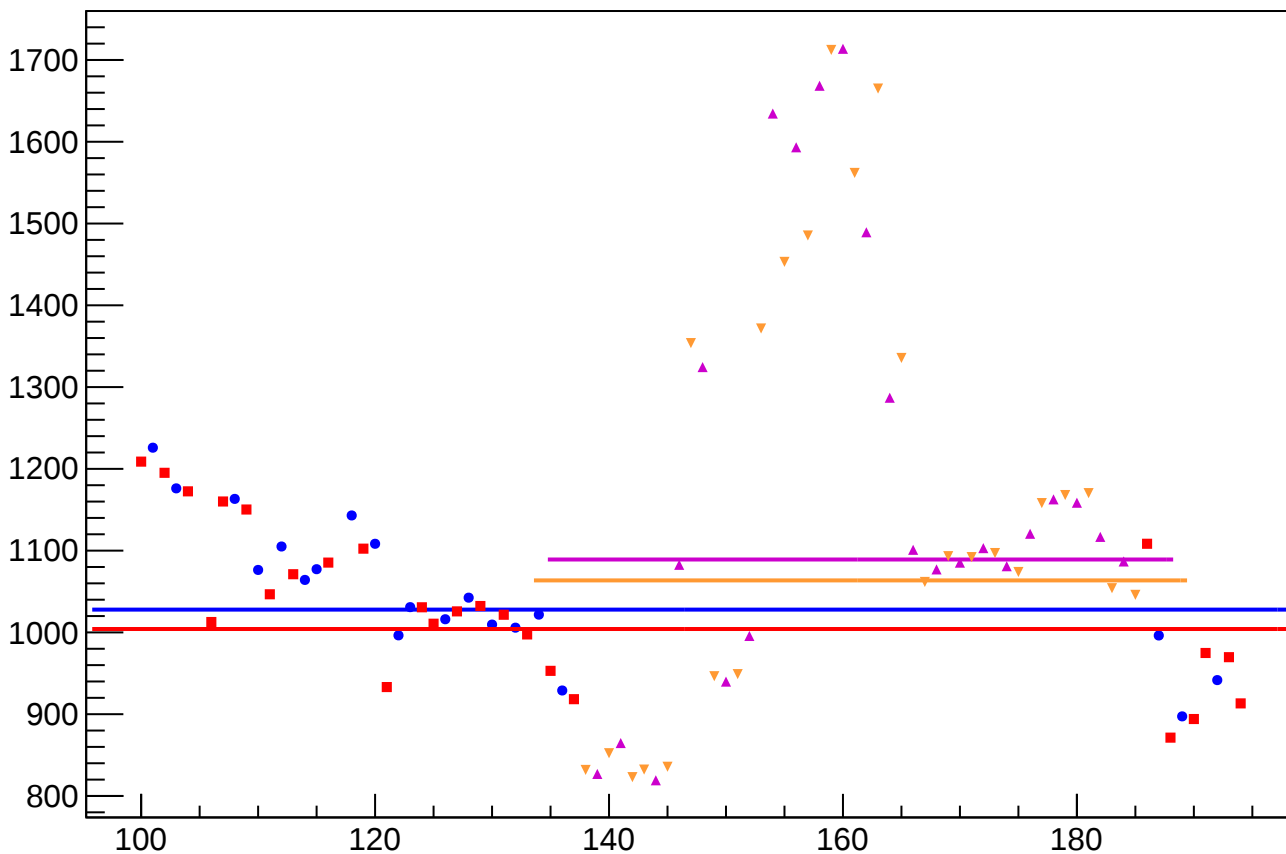
Right: 0.436 ± 0.235 χ^2/NDF : 1625.9/44

In: -1.188 ± 0.215 χ^2/NDF : 381.0/42

Out: 2.551 ± 0.197 χ^2/NDF : 1279.6/49

All: 0.847 ± 0.145 χ^2/NDF : 1825.0/92

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1027.881 $\pm$ 0.254 χ^2 /NDF: 136460.7/19

Left Out: 1063.600 $\pm$ 0.180 χ^2 /NDF:1617376.3/24

Right Out: 1004.165 $\pm$ 0.219 χ^2 /NDF: 187778.5/24

Left In: 1089.154 $\pm$ 0.190 χ^2 /NDF:1430478.5/22

Left: 1075.700 $\pm$ 0.131 χ^2 /NDF: 3057378.7/47

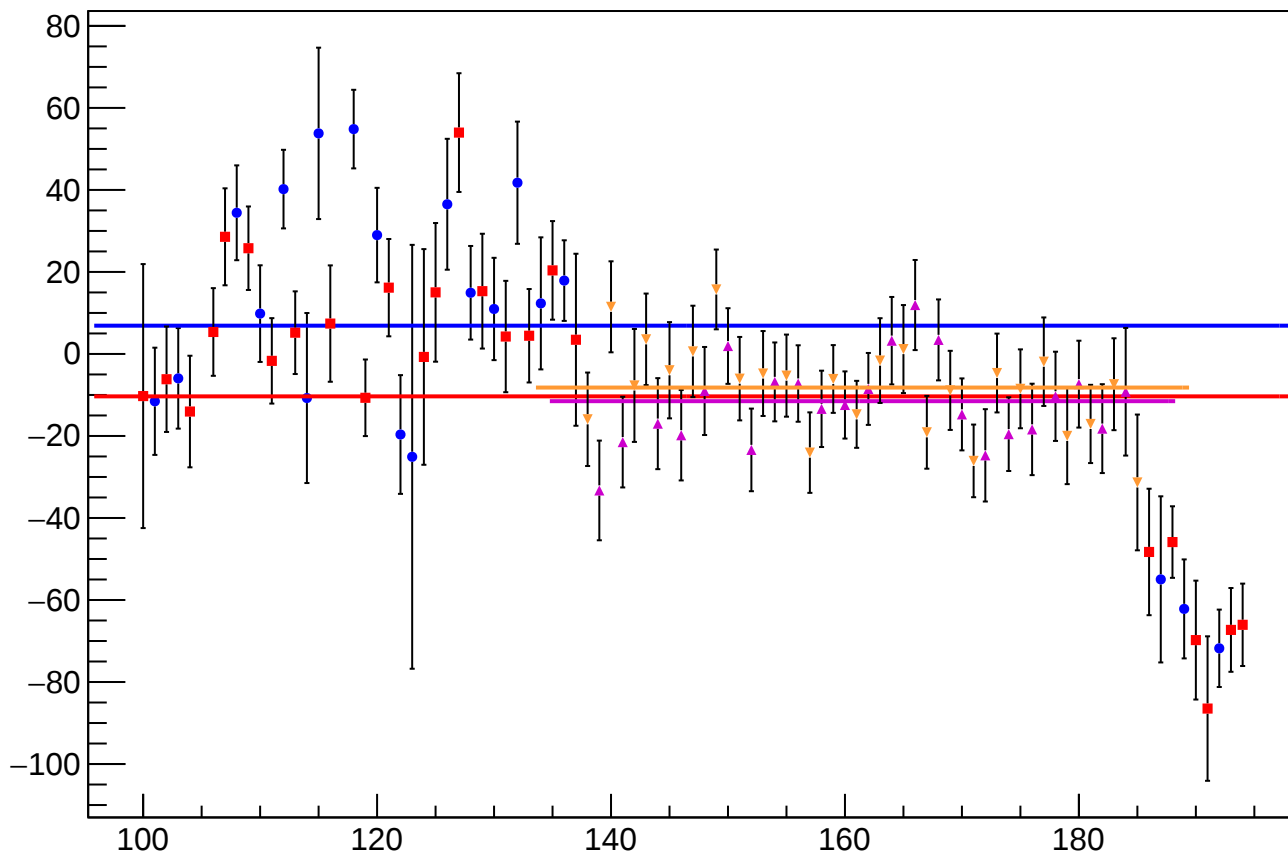
Right: 1014.298 $\pm$ 0.166 χ^2 /NDF: 329235.0/44

In: 1067.163 $\pm$ 0.152 χ^2 /NDF:1604266.8/42

Out: 1039.651 $\pm$ 0.139 χ^2 /NDF:1849001.6/49

All: 1052.191 $\pm$ 0.103 χ^2 /NDF: 3471068.4/92

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 6.897 ± 2.845 $\chi^2/\text{NDF}: 181.6/19$

Left Out: -8.195 ± 2.049 $\chi^2/\text{NDF}: 26.2/24$

Right Out: -10.343 ± 2.481 $\chi^2/\text{NDF}: 190.6/24$

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

Left: -9.796 ± 1.474 $\chi^2/\text{NDF}: 48.5/47$

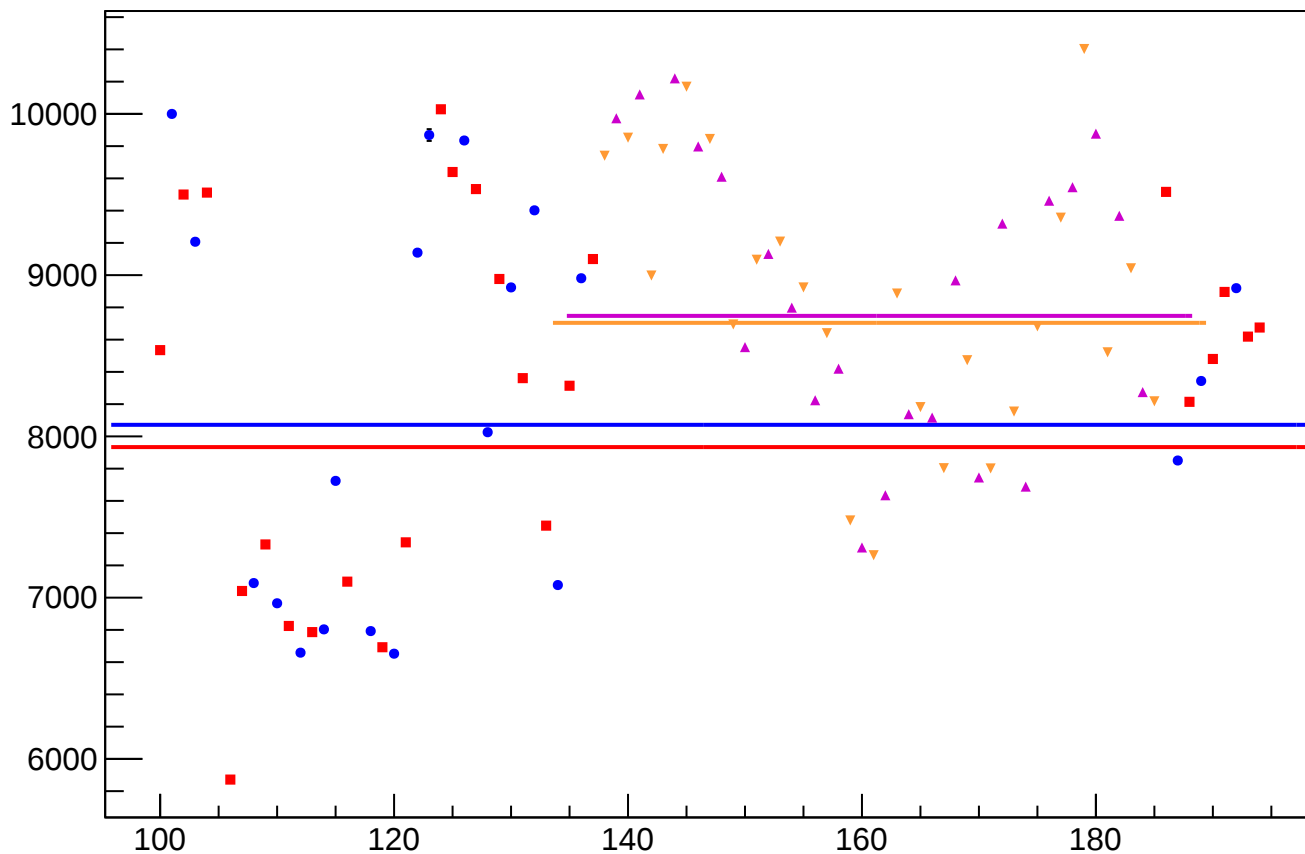
Right: -2.898 ± 1.870 $\chi^2/\text{NDF}: 393.1/44$

In: -4.933 ± 1.701 $\chi^2/\text{NDF}: 229.5/42$

Out: -9.066 ± 1.580 $\chi^2/\text{NDF}: 217.2/49$

All: -7.152 ± 1.158 $\chi^2/\text{NDF}: 449.9/92$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8071.742 $\pm$ 2.012 χ^2/NDF : 315330.5/19

Left Out: 8704.193 $\pm$ 1.449 χ^2/NDF :332364.3/24

Right Out: 7933.649 $\pm$ 1.754 χ^2/NDF : 380138.1/24

Left In: 8747.415 $\pm$ 1.501 χ^2/NDF :347110.4/22

Left: 8725.041 $\pm$ 1.042 χ^2/NDF : 679904.0/47

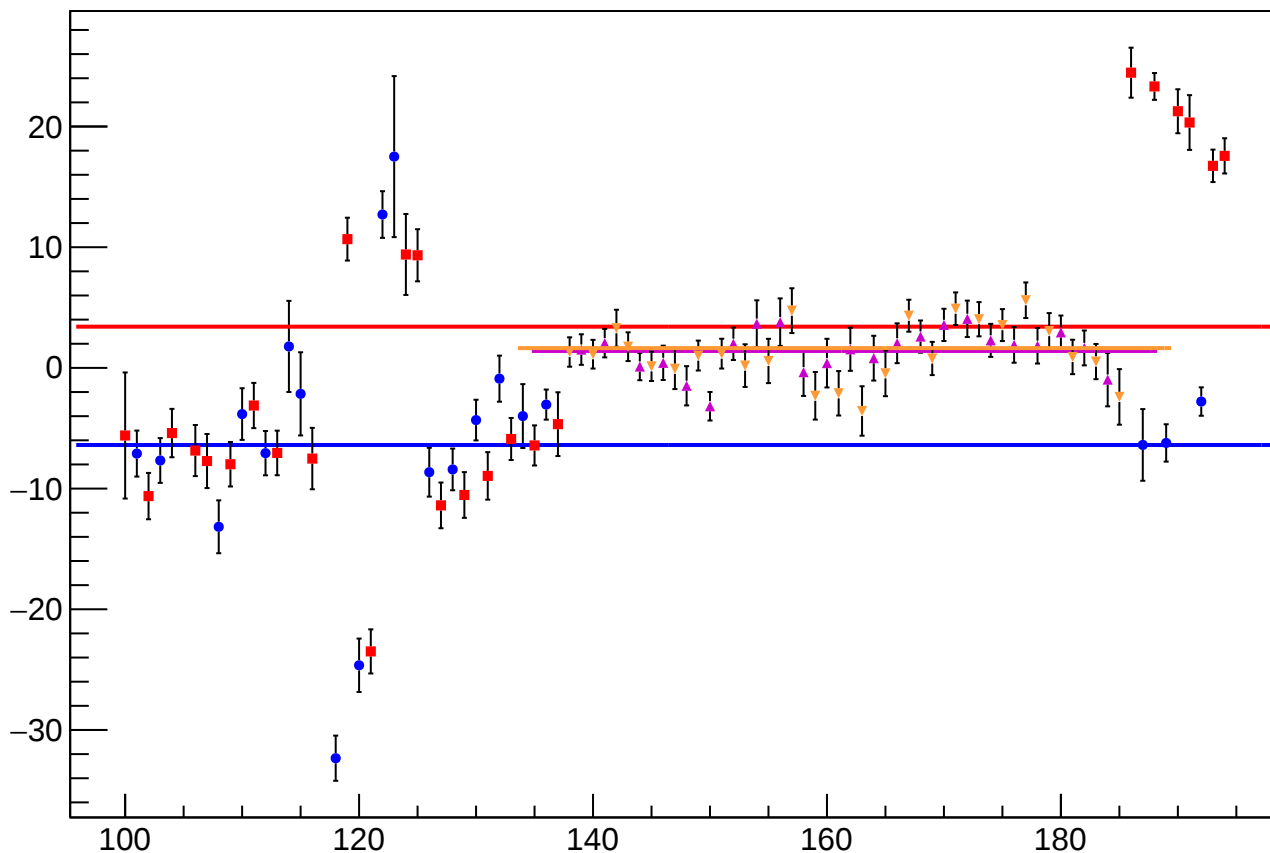
Right: 7993.288 $\pm$ 1.322 χ^2/NDF : 698145.3/44

In: 8505.859 $\pm$ 1.203 χ^2/NDF :734909.7/42

Out: 8391.752 $\pm$ 1.117 χ^2/NDF :827228.0/49

All: 8444.583 $\pm$ 0.819 χ^2/NDF : 1566969.7/92

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.389 $\pm$ 0.428 χ^2/NDF : 418.3/19

Left Out: 1.639 $\pm$ 0.294 χ^2/NDF :51.3/24

Right Out: 3.416 $\pm$ 0.374 χ^2/NDF : 1465.9/24

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

Left: 1.528 $\pm$ 0.213 χ^2/NDF : 85.8/47

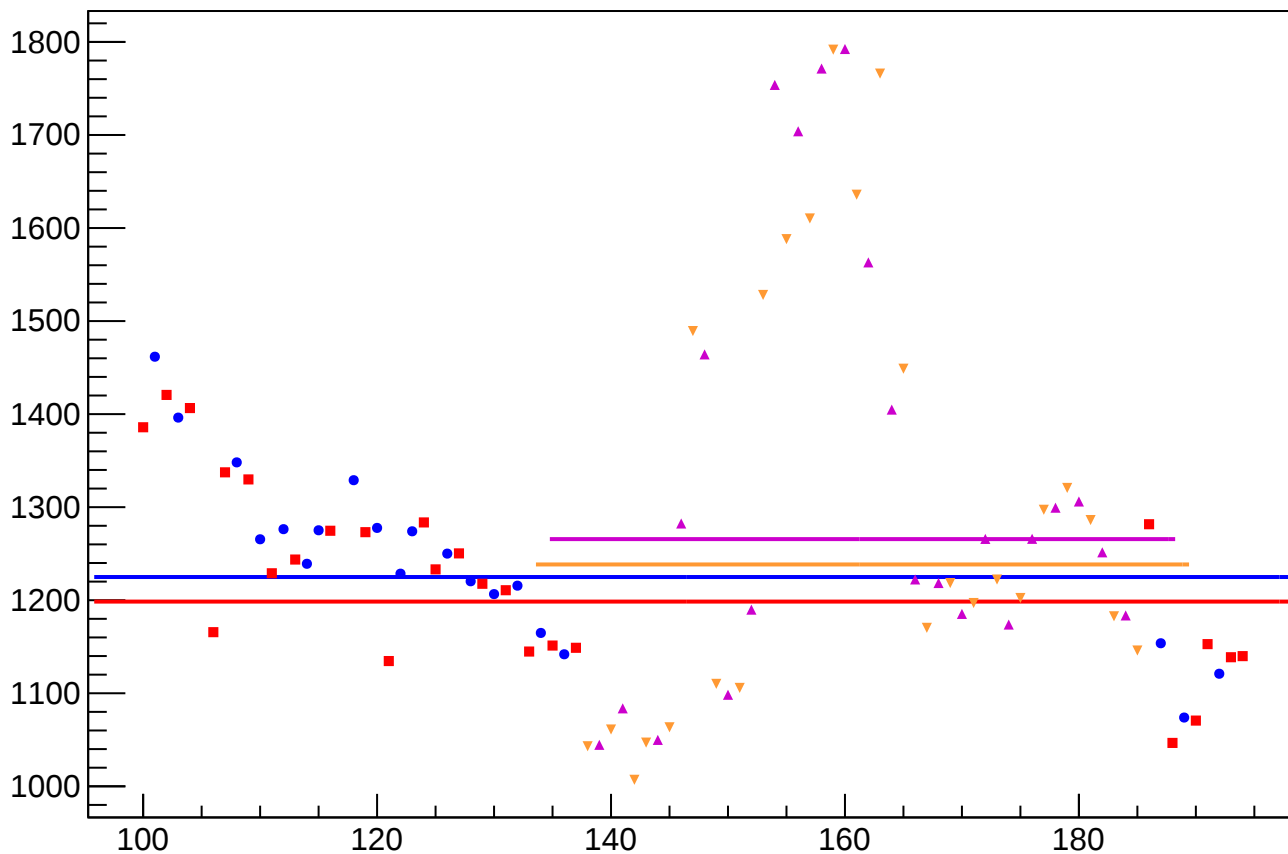
Right: -0.836 $\pm$ 0.282 χ^2/NDF : 2181.9/44

In: -1.269 $\pm$ 0.250 χ^2/NDF :670.7/42

Out: 2.316 $\pm$ 0.231 χ^2/NDF :1531.1/49

All: 0.668 $\pm$ 0.170 χ^2/NDF : 2312.5/92

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1224.933 ± 0.302 $\chi^2/\text{NDF}: 110746.5/19$

Left Out: 1238.437 ± 0.208 $\chi^2/\text{NDF}: 965173.0/24$

Right Out: 1198.531 ± 0.265 $\chi^2/\text{NDF}: 145041.0/24$

Left In: 1265.673 ± 0.218 $\chi^2/\text{NDF}: 845157.0/22$

Left: 1251.361 ± 0.151 $\chi^2/\text{NDF}: 1818496.6/47$

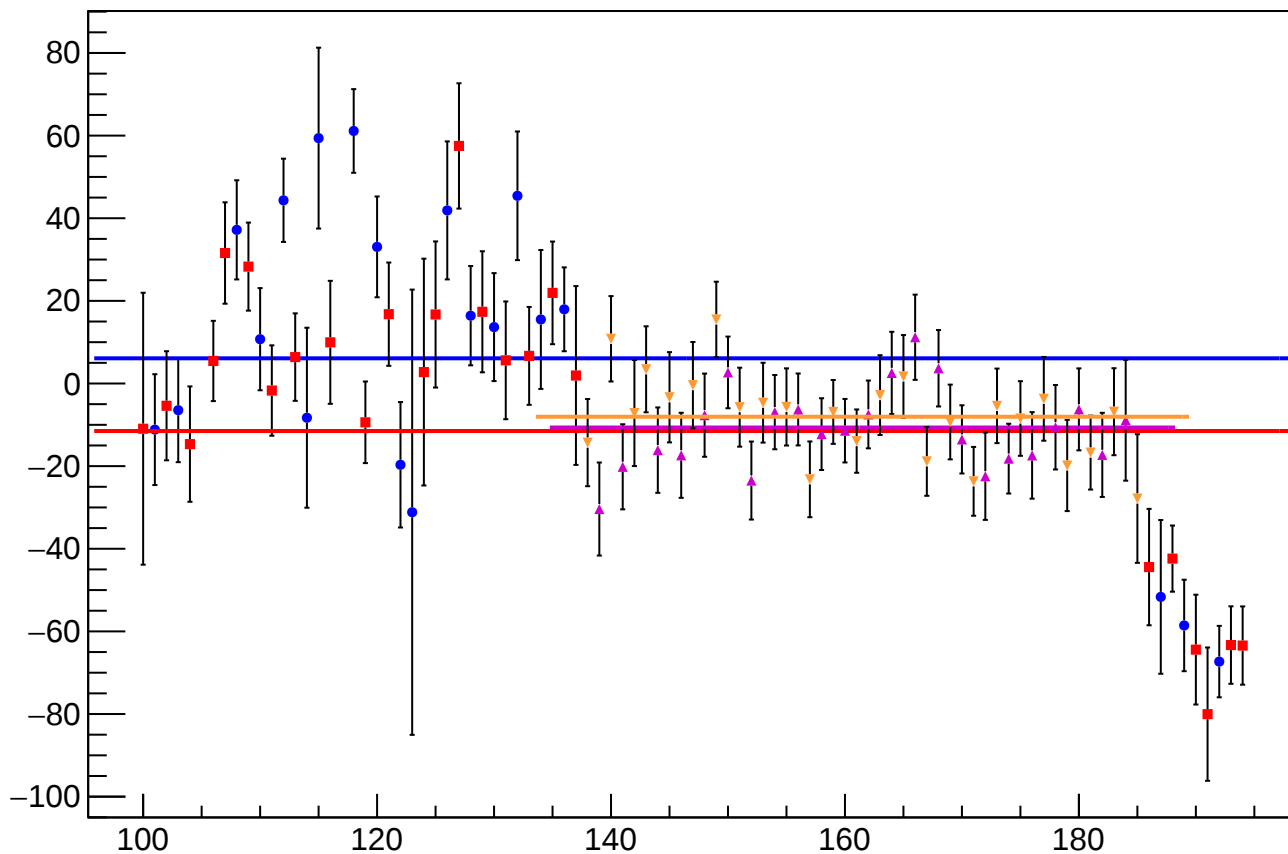
Right: 1209.980 ± 0.199 $\chi^2/\text{NDF}: 260104.6/44$

In: 1251.701 ± 0.177 $\chi^2/\text{NDF}: 967829.0/42$

Out: 1223.231 ± 0.163 $\chi^2/\text{NDF}: 1124291.6/49$

All: 1236.317 ± 0.120 $\chi^2/\text{NDF}: 2106084.3/92$

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 6.096 $\pm$ 2.902 χ^2/NDF : 197.7/19

Left Out: -8.042 $\pm$ 1.918 χ^2/NDF : 26.3/24

Right Out: -11.496 $\pm$ 2.476 χ^2/NDF : 194.1/24

Left In: -10.653 $\pm$ 1.988 χ^2/NDF : 21.4/22

Left: -9.301 $\pm$ 1.380 χ^2/NDF : 48.6/47

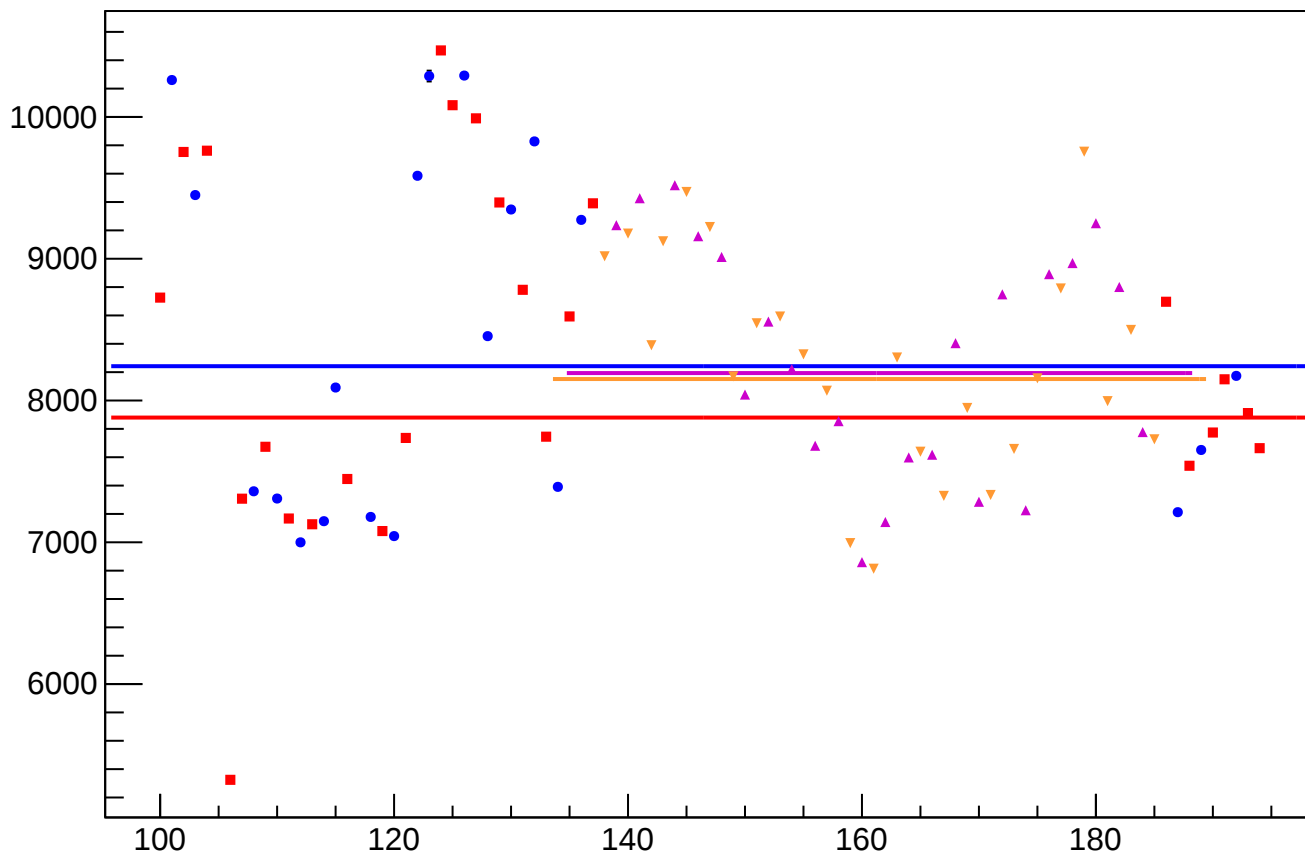
Right: -4.085 $\pm$ 1.884 χ^2/NDF : 413.0/44

In: -5.305 $\pm$ 1.640 χ^2/NDF : 241.8/42

Out: -9.338 $\pm$ 1.516 χ^2/NDF : 221.6/49

All: -7.479 $\pm$ 1.113 χ^2/NDF : 466.7/92

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8242.073 $\pm$ 2.052 χ^2/NDF : 284924.4/19

Left Out: 8151.489 $\pm$ 1.356 χ^2/NDF : 321803.3/24

Right Out: 7879.723 $\pm$ 1.751 χ^2/NDF : 400812.1/24

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

Left: 8171.814 $\pm$ 0.976 χ^2/NDF : 660646.6/47

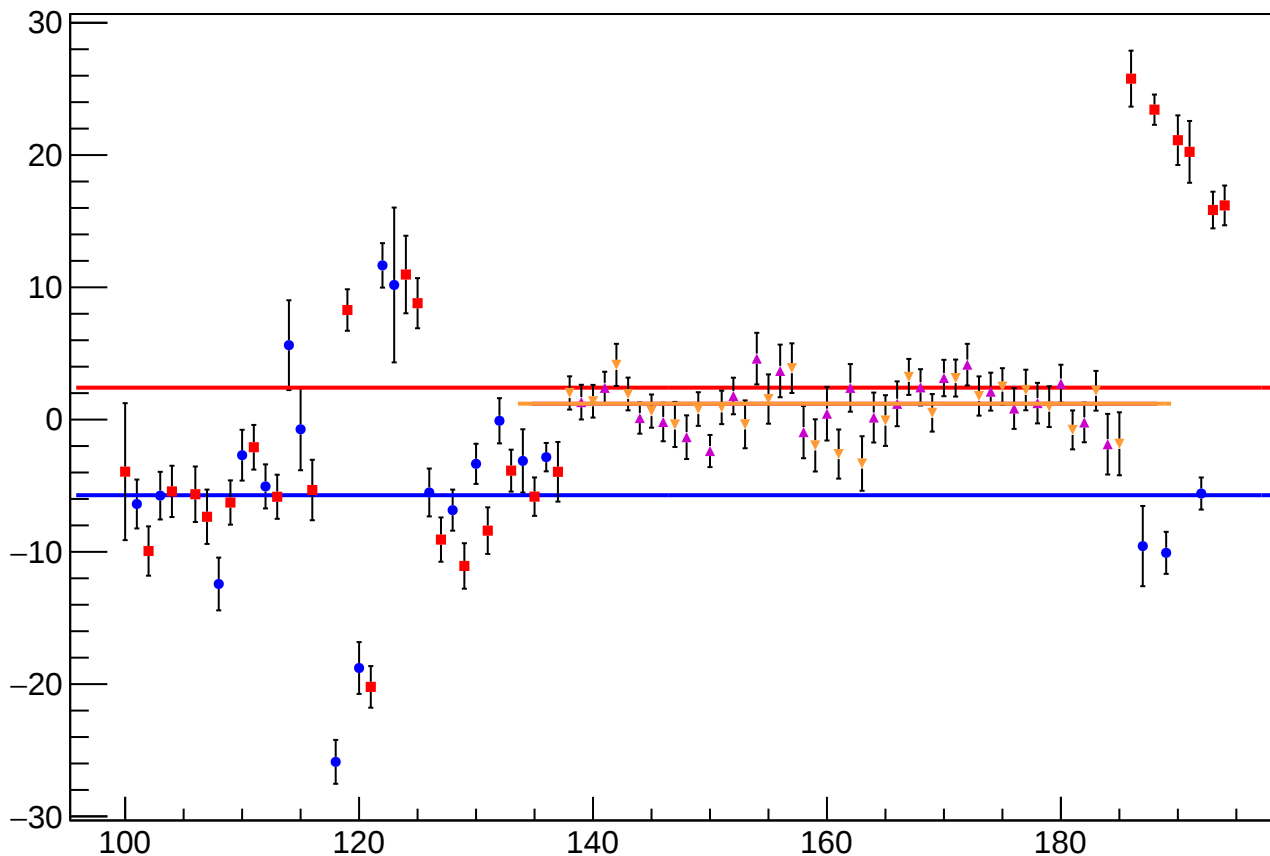
Right: 8032.366 $\pm$ 1.332 χ^2/NDF : 703782.2/44

In: 8209.102 $\pm$ 1.160 χ^2/NDF : 623681.3/42

Out: 8049.554 $\pm$ 1.072 χ^2/NDF : 737673.9/49

All: 8123.095 $\pm$ 0.787 χ^2/NDF : 1371561.3/92

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.718 ± 0.395 χ^2/NDF : 365.8/19

Left Out: 1.203 ± 0.302 χ^2/NDF : 29.9/24

Right Out: 2.414 ± 0.353 χ^2/NDF : 1406.5/24

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

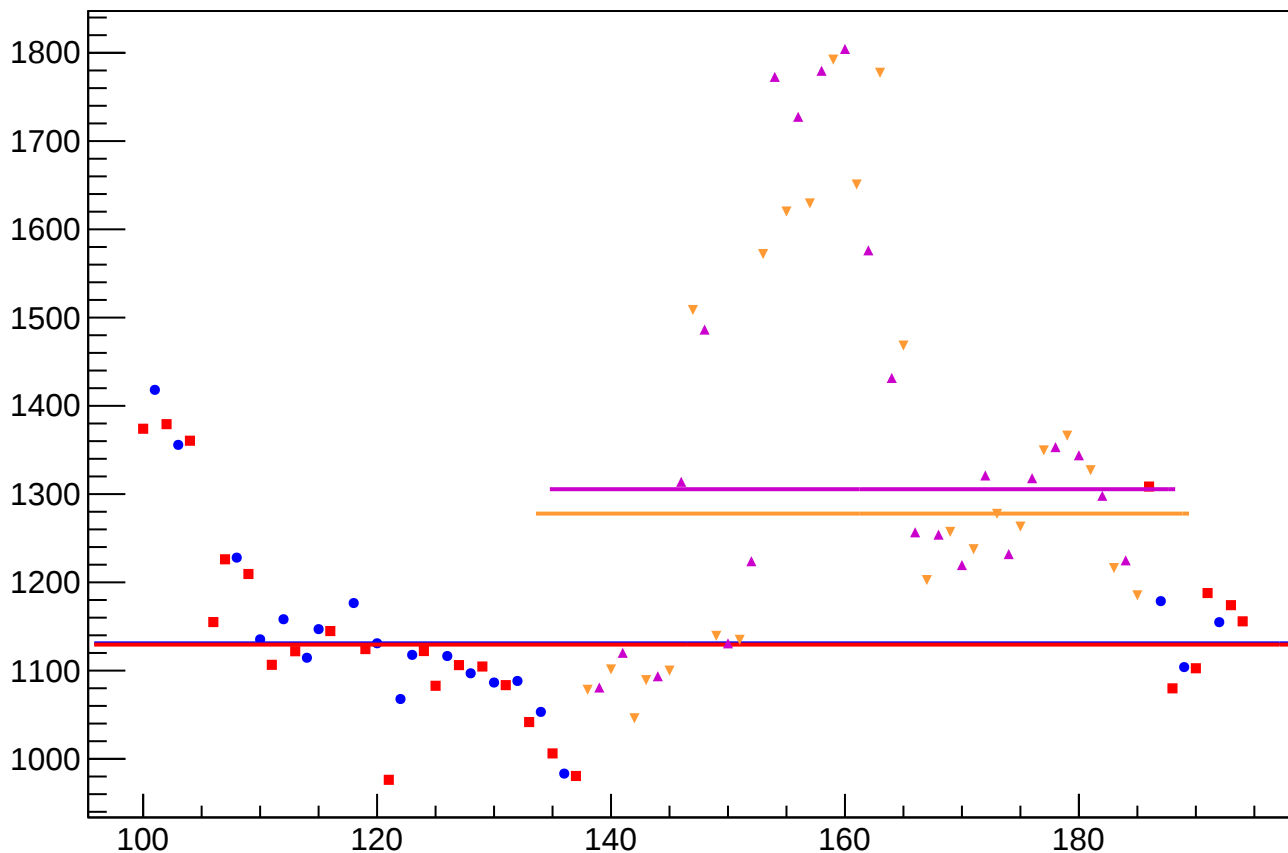
Right: -1.196 ± 0.263 χ^2/NDF : 2007.8/44

In: -1.522 ± 0.248 χ^2/NDF : 582.8/42

Out: 1.716 ± 0.230 χ^2/NDF : 1443.2/49

All: 0.219 ± 0.168 χ^2/NDF : 2117.9/92

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1130.880 ± 0.279 $\chi^2/\text{NDF}: 134976.0/19$

Left Out: 1277.916 ± 0.214 $\chi^2/\text{NDF}: 878127.9/24$

Right Out: 1129.474 ± 0.250 $\chi^2/\text{NDF}: 152614.6/24$

Left In: 1305.541 ± 0.225 $\chi^2/\text{NDF}: 760450.8/22$

Left: 1291.030 ± 0.155 $\chi^2/\text{NDF}: 1646499.4/47$

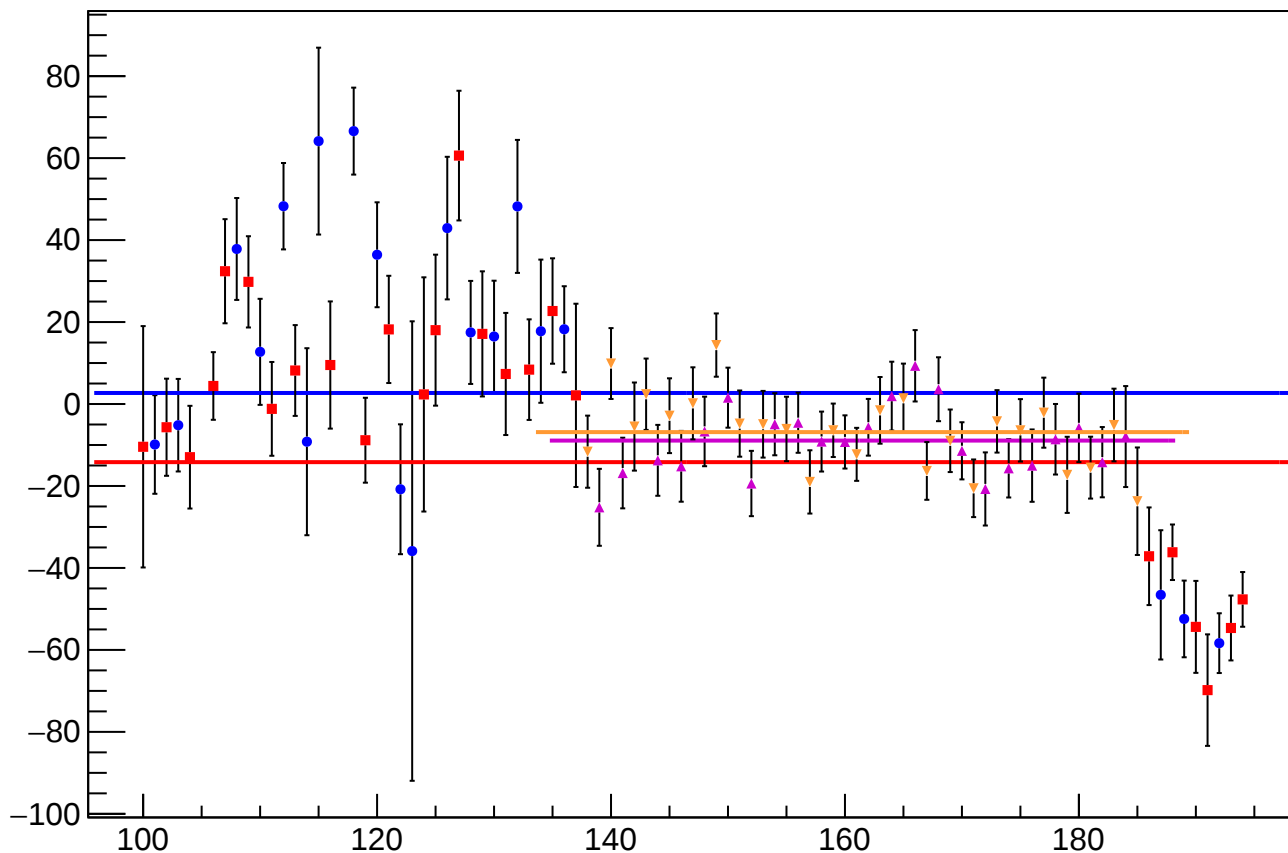
Right: 1130.098 ± 0.186 $\chi^2/\text{NDF}: 287604.7/44$

In: 1236.846 ± 0.175 $\chi^2/\text{NDF}: 1132507.3/42$

Out: 1215.091 ± 0.162 $\chi^2/\text{NDF}: 1234652.8/49$

All: 1225.144 ± 0.119 $\chi^2/\text{NDF}: 2375451.2/92$

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 2.695 ± 2.831 $\chi^2/\text{NDF}: 215.4/19$

Left Out: -6.854 ± 1.616 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -14.184 ± 2.289 $\chi^2/\text{NDF}: 188.1/24$

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

Left: -7.852 ± 1.163 $\chi^2/\text{NDF}: 51.3/47$

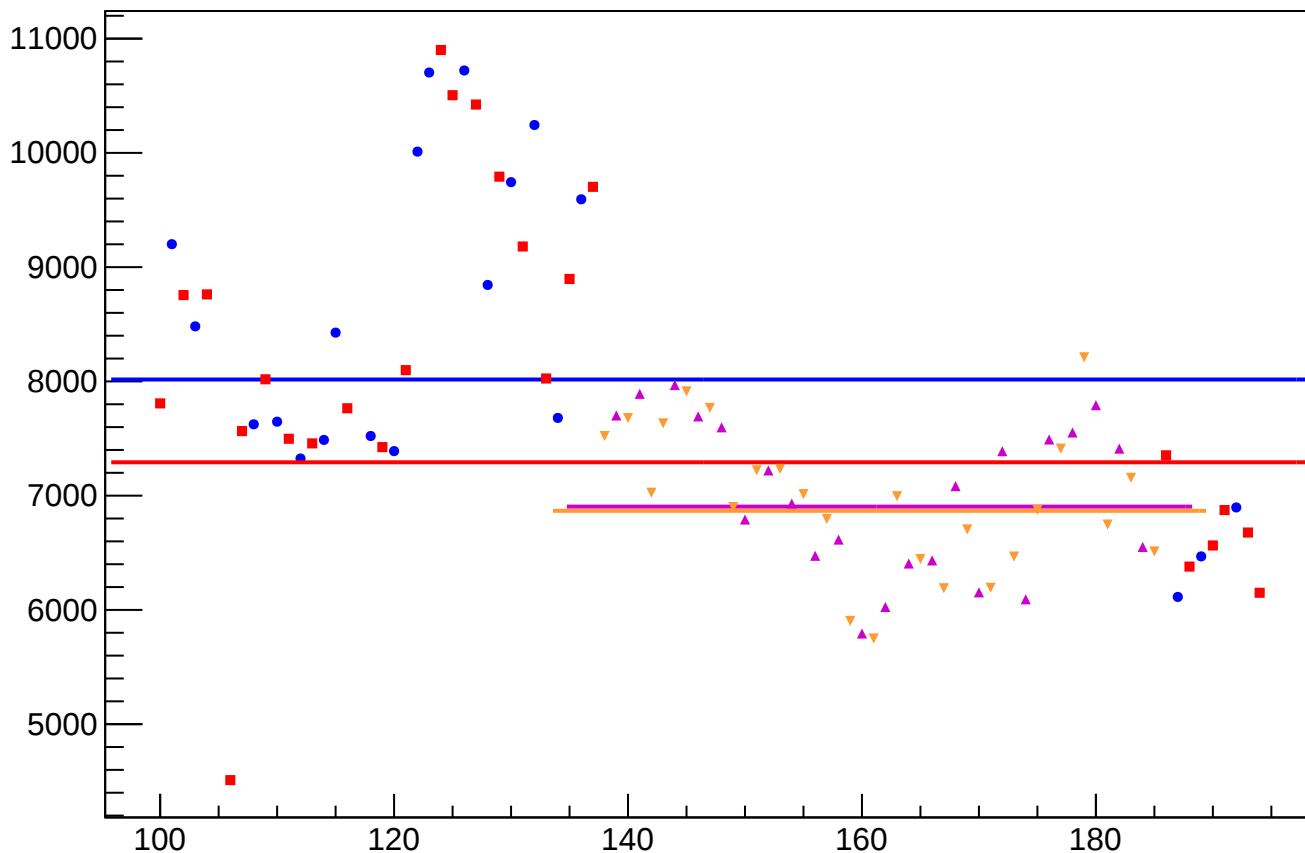
Right: -7.513 ± 1.780 $\chi^2/\text{NDF}: 425.0/44$

In: -5.912 ± 1.441 $\chi^2/\text{NDF}: 249.7/42$

Out: -9.292 ± 1.320 $\chi^2/\text{NDF}: 223.6/49$

All: -7.750 ± 0.973 $\chi^2/\text{NDF}: 476.3/92$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8016.566 $\pm$ 2.002 χ^2/NDF : 385984.8/19

Left Out: 6867.371 $\pm$ 1.142 χ^2/NDF : 306895.0/24

Right Out: 7292.035 $\pm$ 1.618 χ^2/NDF : 741877.4/24

Left In: 6904.117 $\pm$ 1.184 χ^2/NDF : 325912.6/22

Left: 6885.088 $\pm$ 0.822 χ^2/NDF : 633306.5/47

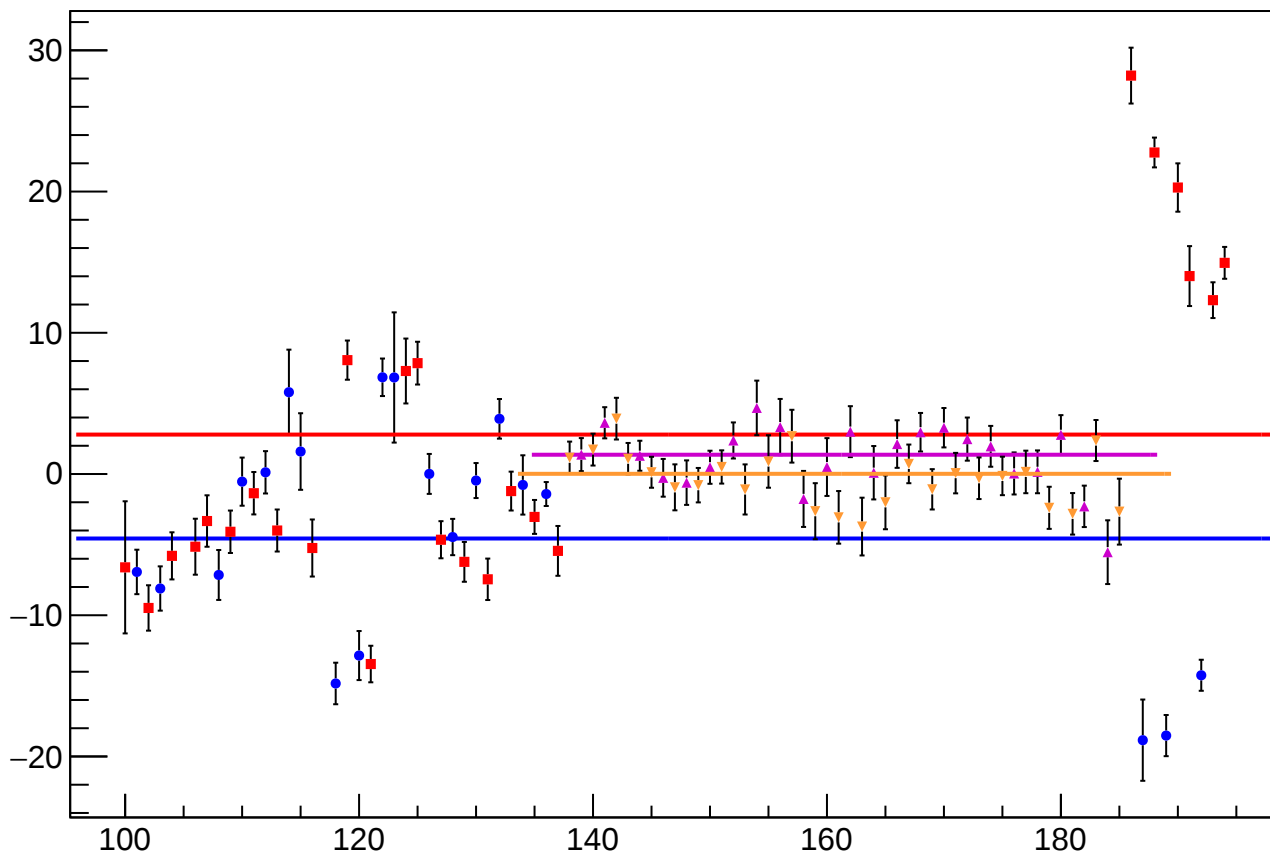
Right: 7578.366 $\pm$ 1.258 χ^2/NDF : 1207082.6/44

In: 7192.375 $\pm$ 1.019 χ^2/NDF : 940676.1/42

Out: 7008.610 $\pm$ 0.933 χ^2/NDF : 1094734.2/49

All: 7092.432 $\pm$ 0.688 χ^2/NDF : 2053096.0/92

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.567 ± 0.336 $\chi^2/\text{NDF}: 462.2/19$

Left Out: 0.014 ± 0.290 $\chi^2/\text{NDF}: 35.0/24$

Right Out: 2.792 ± 0.303 $\chi^2/\text{NDF}: 1372.5/24$

Left In: 1.365 ± 0.306 $\chi^2/\text{NDF}: 38.5/22$

Left: 0.654 ± 0.210 $\chi^2/\text{NDF}: 83.8/47$

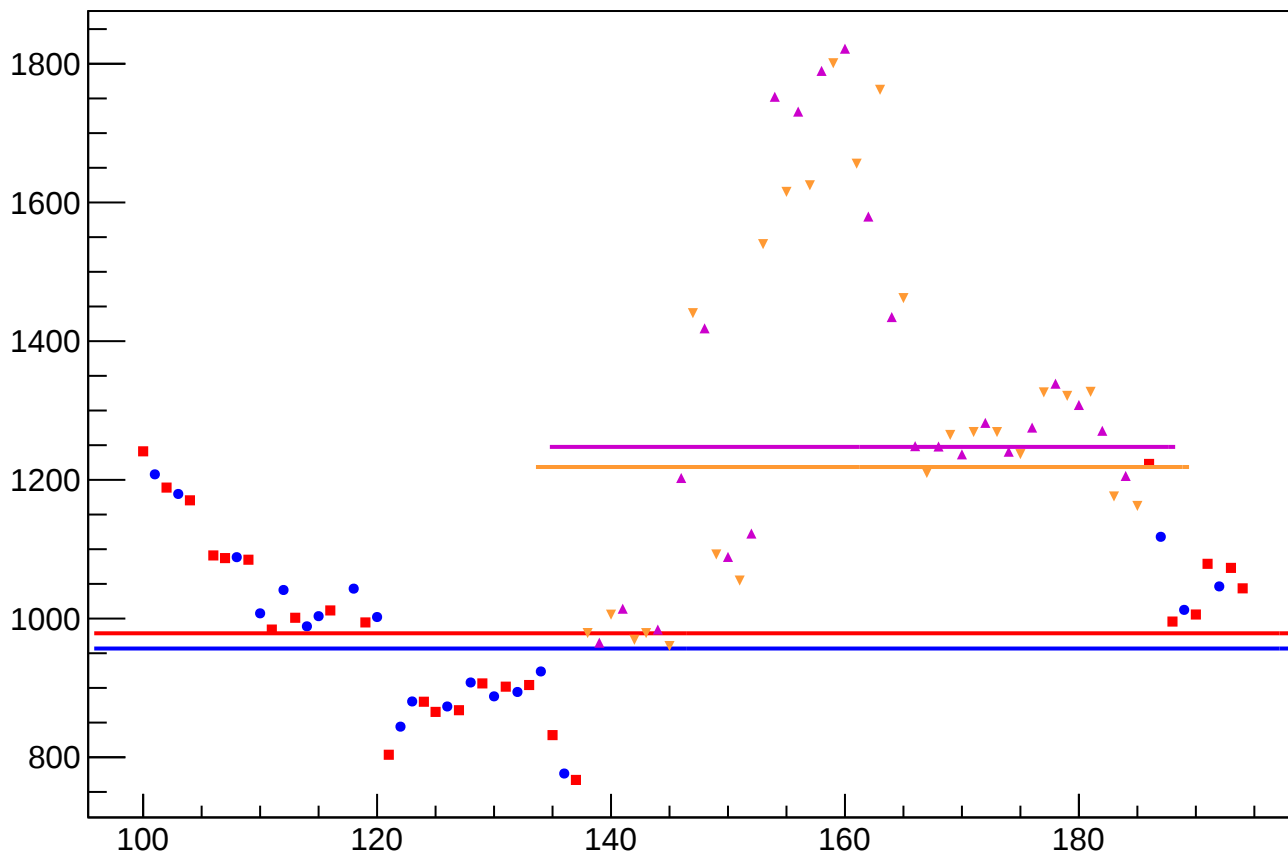
Right: -0.512 ± 0.225 $\chi^2/\text{NDF}: 2099.5/44$

In: -1.322 ± 0.226 $\chi^2/\text{NDF}: 671.5/42$

Out: 1.342 ± 0.209 $\chi^2/\text{NDF}: 1451.4/49$

All: 0.110 ± 0.154 $\chi^2/\text{NDF}: 2197.6/92$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 956.807 $\pm$ 0.237 χ^2 /NDF: 268037.0/19

Left Out: 1218.543 $\pm$ 0.205 χ^2 /NDF:1265847.5/24

Right Out: 978.761 $\pm$ 0.214 χ^2 /NDF: 286340.8/24

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

Left: 1232.283 $\pm$ 0.149 χ^2 /NDF: 2348717.2/47

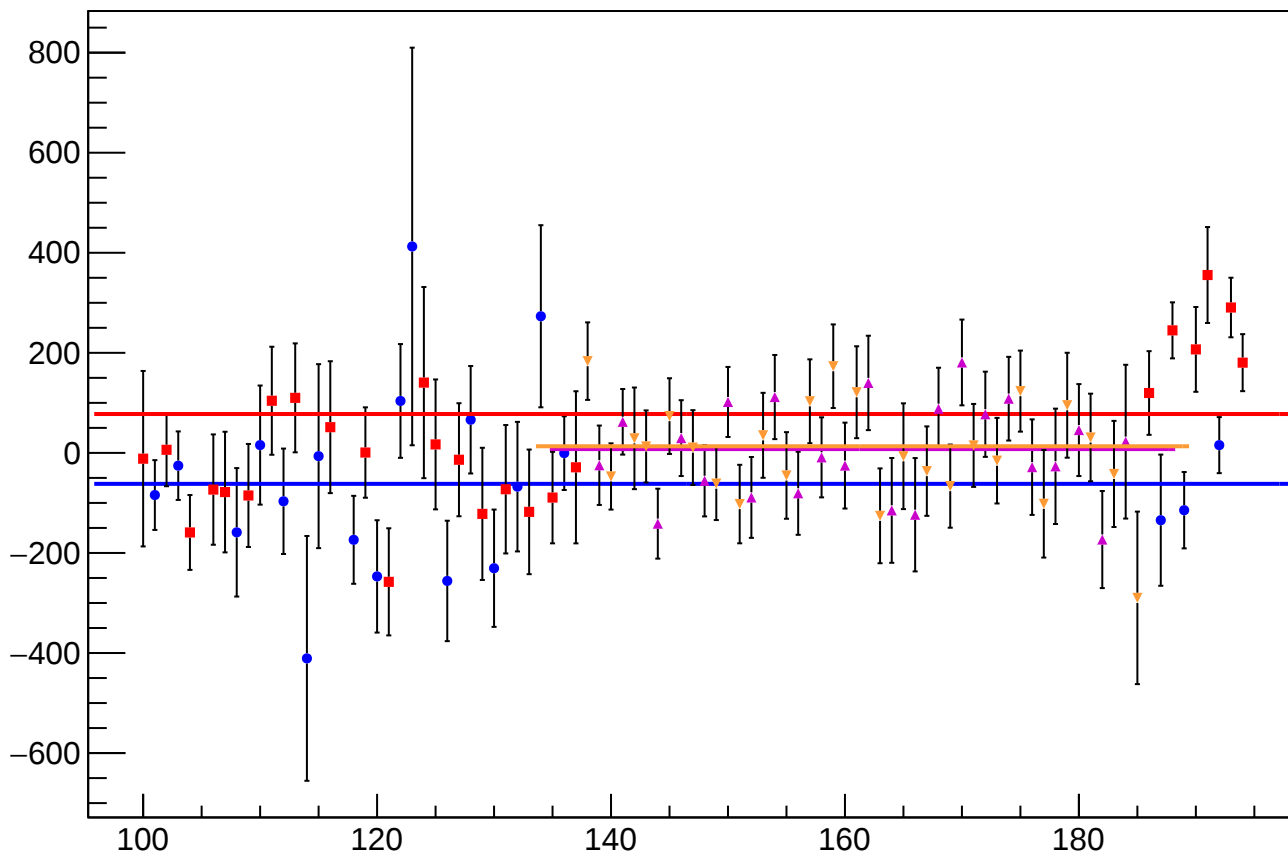
Right: 968.903 $\pm$ 0.159 χ^2 /NDF: 559091.6/44

In: 1115.817 $\pm$ 0.160 χ^2 /NDF:2162069.3/42

Out: 1103.950 $\pm$ 0.148 χ^2 /NDF:2205967.2/49

All: 1109.436 $\pm$ 0.109 χ^2 /NDF: 4371003.3/92

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -61.869 $\pm$ 22.194 χ^2/NDF : 24.4/19

Left Out: 13.207 $\pm$ 17.146 χ^2/NDF : 26.8/24

Right Out: 77.713 $\pm$ 18.591 χ^2/NDF : 74.9/24

Left In: 7.618 $\pm$ 17.672 χ^2/NDF : 28.1/22

Left: 10.497 $\pm$ 12.306 χ^2/NDF : 55.0/47

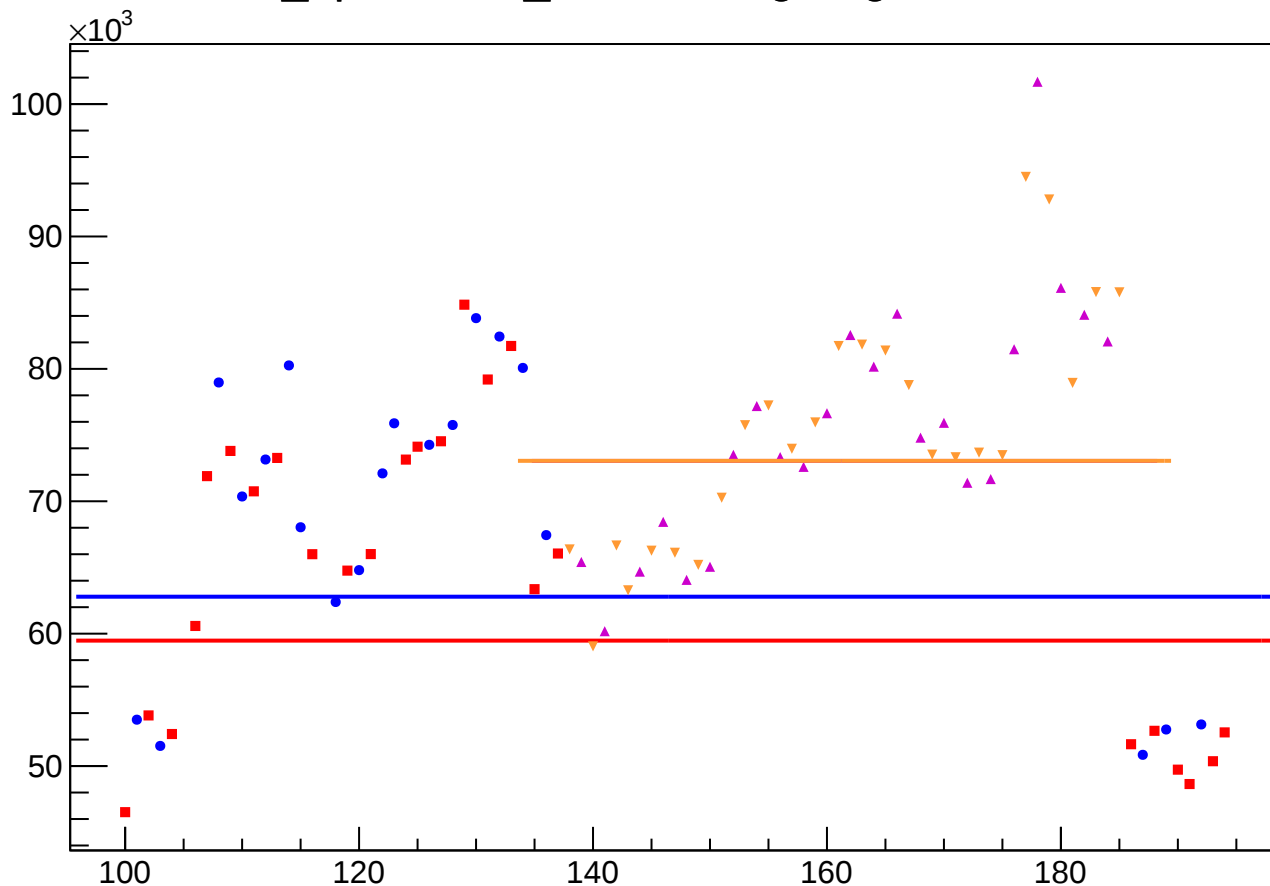
Right: 20.157 $\pm$ 14.252 χ^2/NDF : 122.5/44

In: -19.343 $\pm$ 13.825 χ^2/NDF : 58.5/42

Out: 42.856 $\pm$ 12.604 χ^2/NDF : 108.2/49

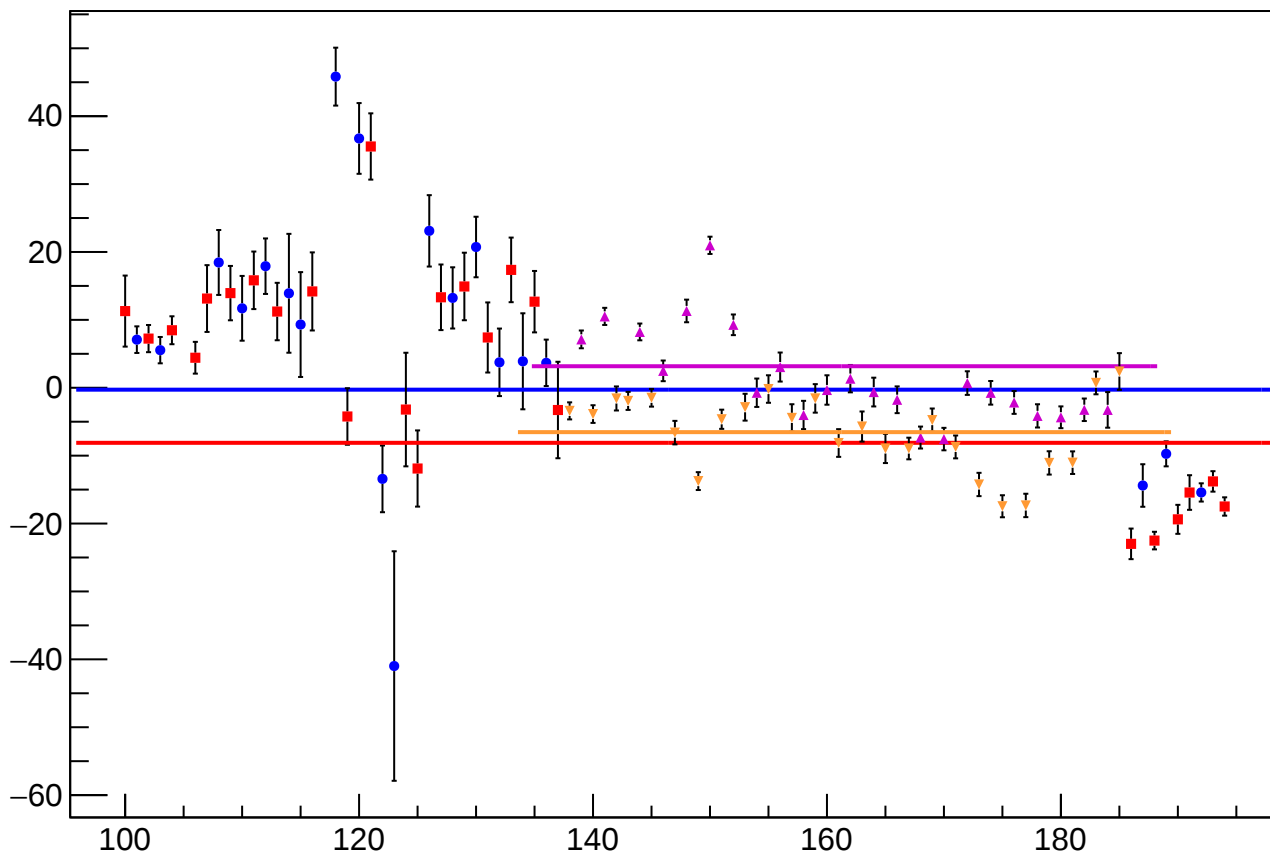
All: 14.623 $\pm$ 9.314 χ^2/NDF : 177.7/92

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 62792.135+/-15.694	χ^2/NDF : 471293.0/19	Left: 73050.085+/-8.701	χ^2/NDF : 936576.6/47
Left Out: 73054.401+/-12.124	χ^2/NDF : 473050.9/24	Right: 60842.709+/-10.078	χ^2/NDF : 1110618.9/44
Right Out: 59474.827+/-13.146	χ^2/NDF : 613068.7/24	In: 69067.213+/-9.775	χ^2/NDF : 1196059.2/42
Left In: 73045.500+/-12.496	χ^2/NDF : 463525.5/22	Out: 66812.821+/-8.912	χ^2/NDF : 1662723.2/49
		All: 67836.131+/-6.586	χ^2/NDF : 2887825.4/9

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.282 ± 0.695 χ^2/NDF : 475.9/19

Left Out: -6.537 ± 0.332 χ^2/NDF : 252.7/24

Right Out: -8.110 ± 0.536 χ^2/NDF : 730.9/24

Left In: 3.171 ± 0.346 χ^2/NDF : 487.3/22

Left: -1.892 ± 0.240 χ^2/NDF : 1149.5/47

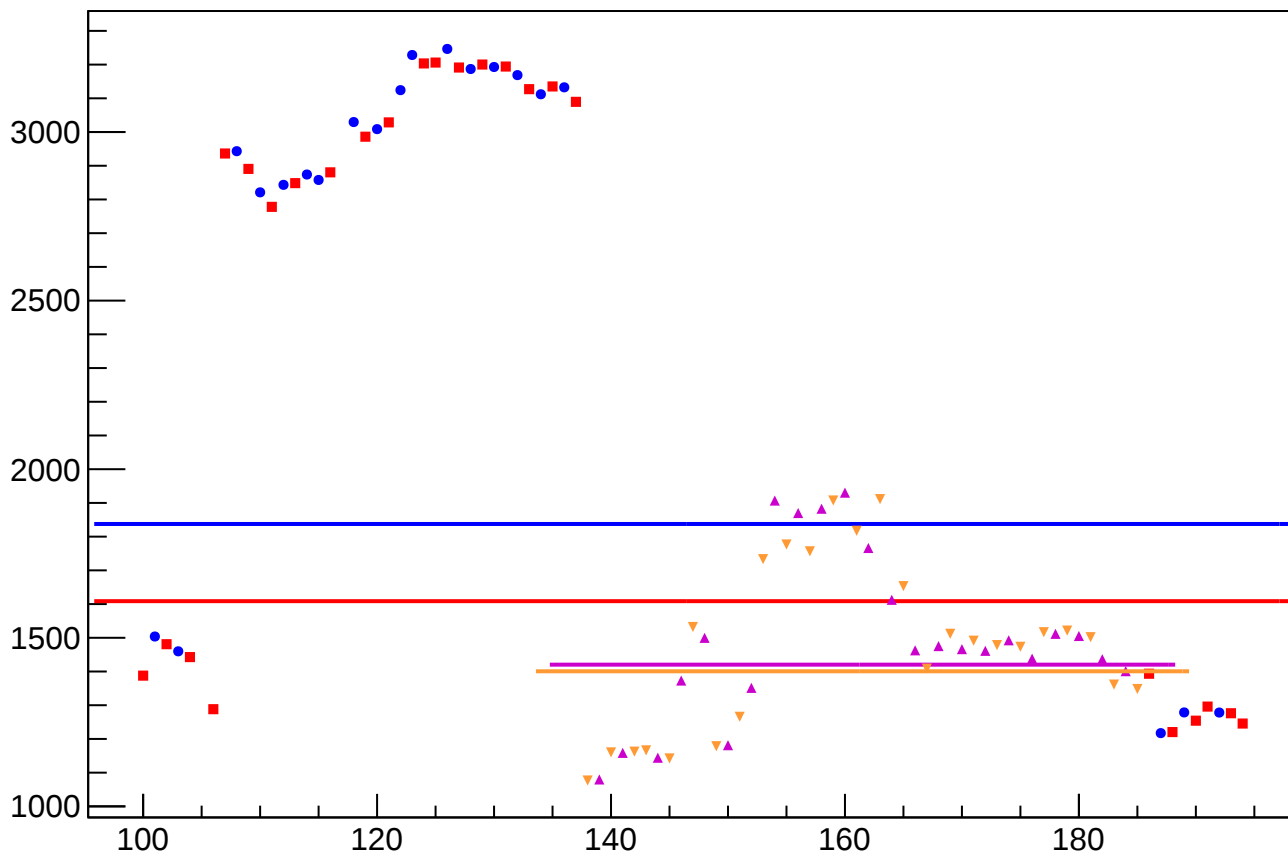
Right: -5.191 ± 0.424 χ^2/NDF : 1286.4/44

In: 2.483 ± 0.310 χ^2/NDF : 983.0/42

Out: -6.973 ± 0.282 χ^2/NDF : 989.9/49

All: -2.691 ± 0.209 χ^2/NDF : 2481.8/92

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1837.535 ± 0.491 $\chi^2/\text{NDF}: 2529639.0/19$

Left Out: 1400.637 ± 0.235 $\chi^2/\text{NDF}: 1037921.6/24$

Right Out: 1608.625 ± 0.379 $\chi^2/\text{NDF}: 3109646.3/24$

Left In: 1420.285 ± 0.245 $\chi^2/\text{NDF}: 905186.2/22$

Left: 1410.037 ± 0.169 $\chi^2/\text{NDF}: 1946462.8/47$

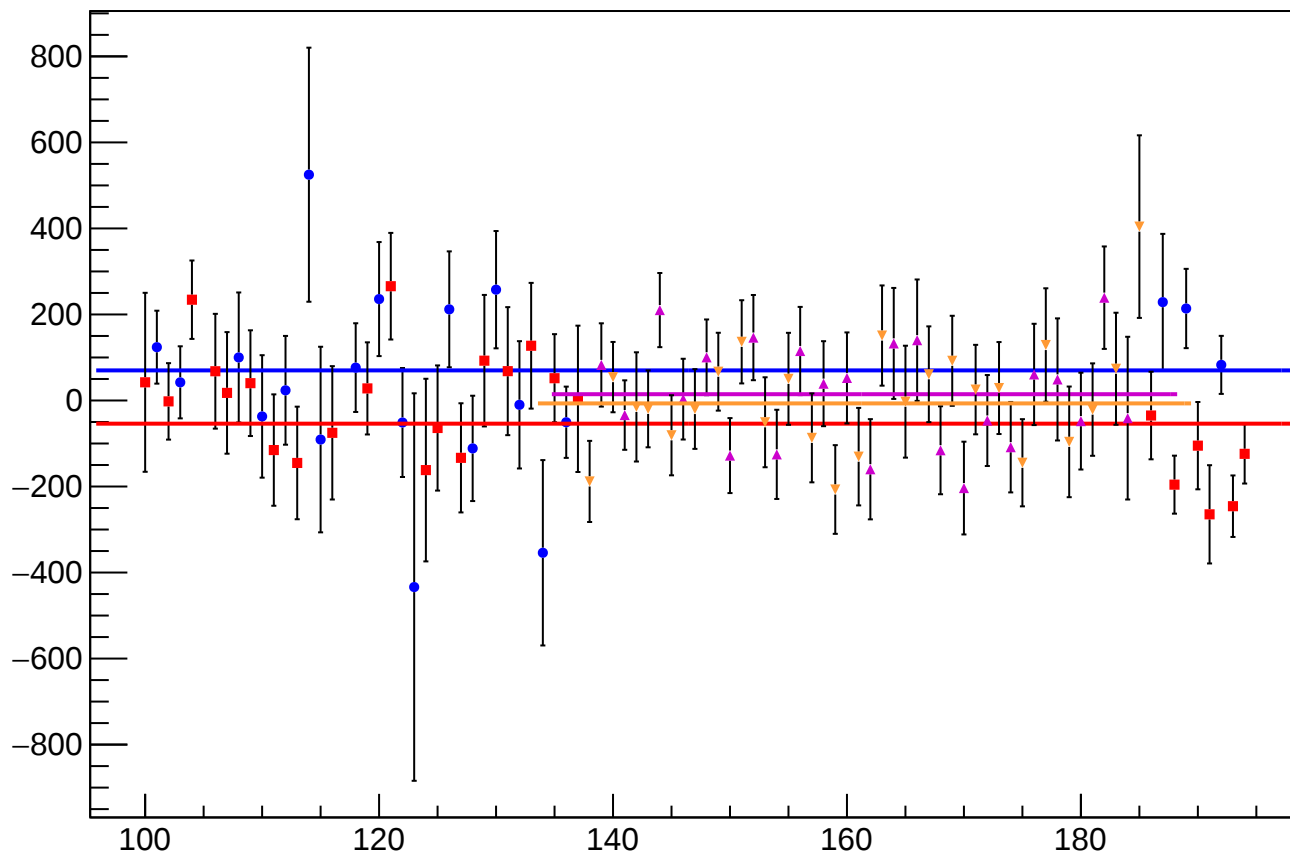
Right: 1693.971 ± 0.300 $\chi^2/\text{NDF}: 5775482.5/44$

In: 1503.395 ± 0.219 $\chi^2/\text{NDF}: 4012634.6/42$

Out: 1458.320 ± 0.199 $\chi^2/\text{NDF}: 4365503.9/49$

All: 1478.734 ± 0.148 $\chi^2/\text{NDF}: 8401266.8/92$

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 69.951 $\pm$ 26.226 χ^2/NDF : 22.9/19

Left Out: -6.789 $\pm$ 21.213 χ^2/NDF : 24.7/24

Right Out: -53.893 $\pm$ 22.107 χ^2/NDF : 41.5/24

Left In: 14.611 $\pm$ 21.846 χ^2/NDF : 29.8/22

Left: 3.596 $\pm$ 15.219 χ^2/NDF : 55.0/47

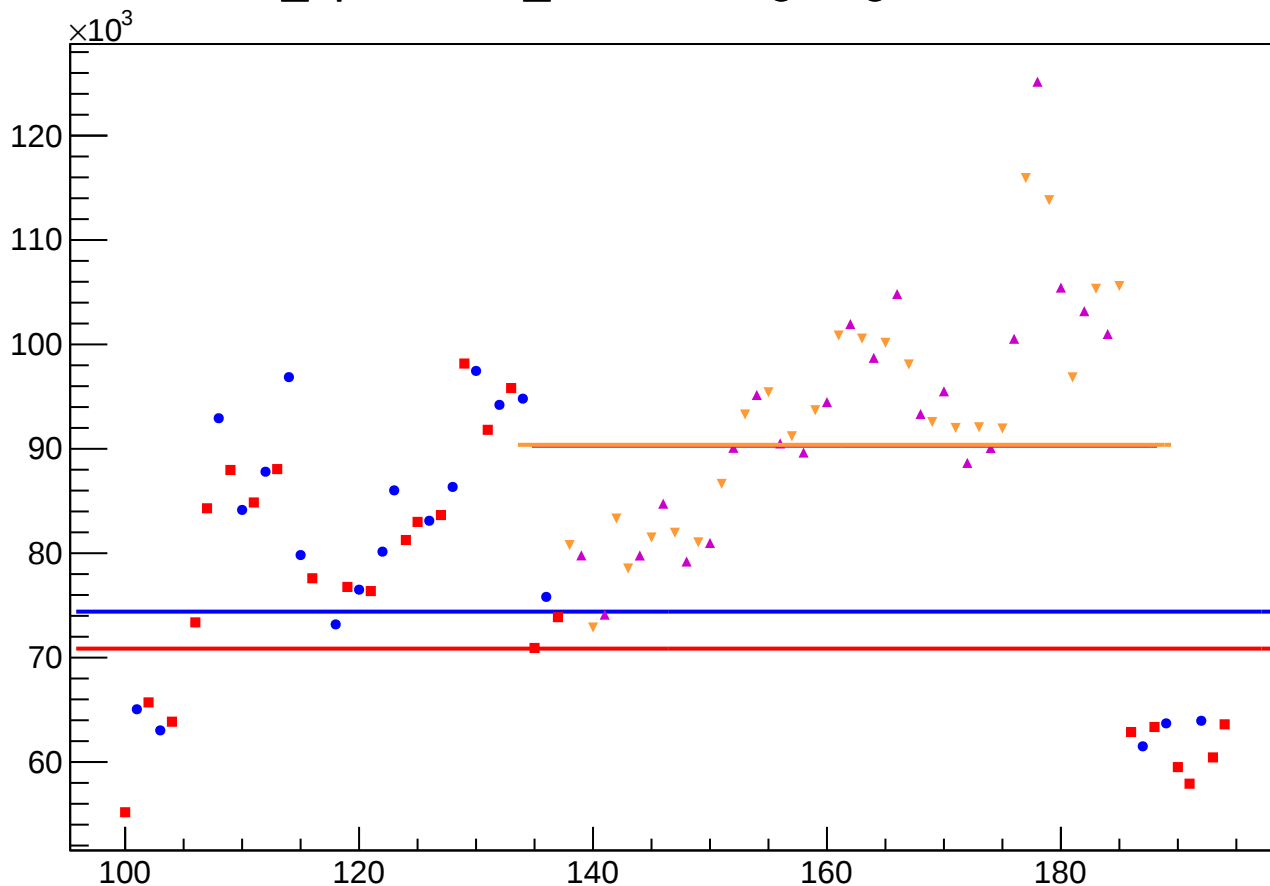
Right: -2.449 $\pm$ 16.903 χ^2/NDF : 77.4/44

In: 37.281 $\pm$ 16.785 χ^2/NDF : 55.3/42

Out: -29.370 $\pm$ 15.306 χ^2/NDF : 68.5/49

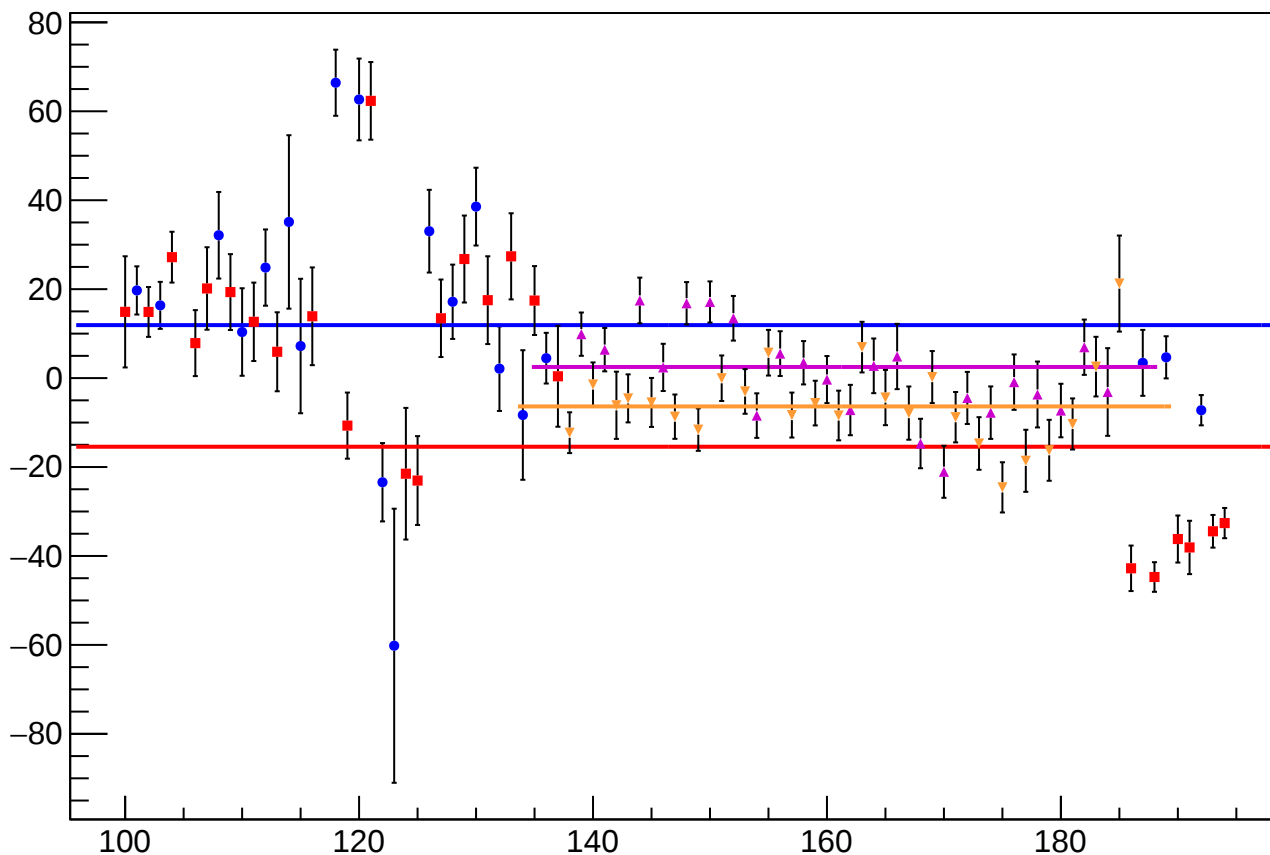
All: 0.890 $\pm$ 11.310 χ^2/NDF : 132.5/92

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 74405.297+/-18.544	χ^2/NDF : 369229.9/19	Left: 90340.563+/-10.761	χ^2/NDF : 923003.7/47
Left Out: 90384.853+/-15.000	χ^2/NDF : 461648.2/24	Right: 72334.304+/-11.952	χ^2/NDF : 903496.8/44
Right Out: 70862.746+/-15.632	χ^2/NDF : 512933.2/24	In: 83785.059+/-11.869	χ^2/NDF : 1263920.1/42
Left In: 90293.591+/-15.448	χ^2/NDF : 461337.5/22	Out: 81026.414+/-10.823	χ^2/NDF : 1786571.3/49
		All: 82278.849+/-7.997	χ^2/NDF : 3079986.3/9

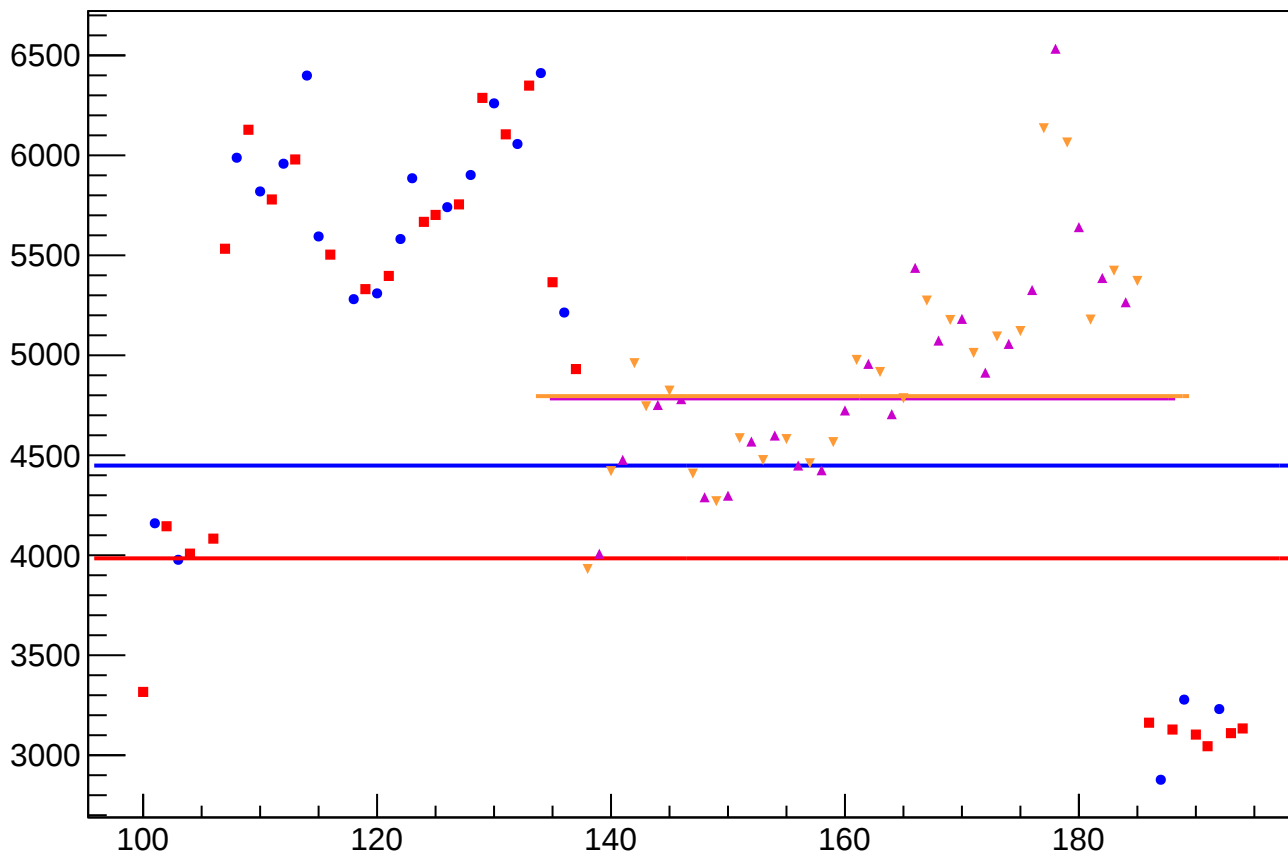
diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 11.913 $\pm$ 1.602 χ^2/NDF : 171.4/19
 Left Out: -6.370 $\pm$ 1.124 χ^2/NDF :45.5/24
 Right Out: -15.435 $\pm$ 1.277 χ^2/NDF : 503.6/24
 Left In: 2.501 $\pm$ 1.156 χ^2/NDF :78.4/22

Left: -2.059 $\pm$ 0.806 χ^2/NDF : 154.1/47
 Right: -4.808 $\pm$ 0.999 χ^2/NDF : 853.1/44
 In: 5.723 $\pm$ 0.937 χ^2/NDF :272.5/42
 Out: -10.326 $\pm$ 0.844 χ^2/NDF :577.4/49
 All: -3.143 $\pm$ 0.627 χ^2/NDF : 1011.9/92

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4448.543 ± 1.133 $\chi^2/\text{NDF}: 1066005.6/19$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 3984.541 ± 0.903 $\chi^2/\text{NDF}: 1623131.5/24$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

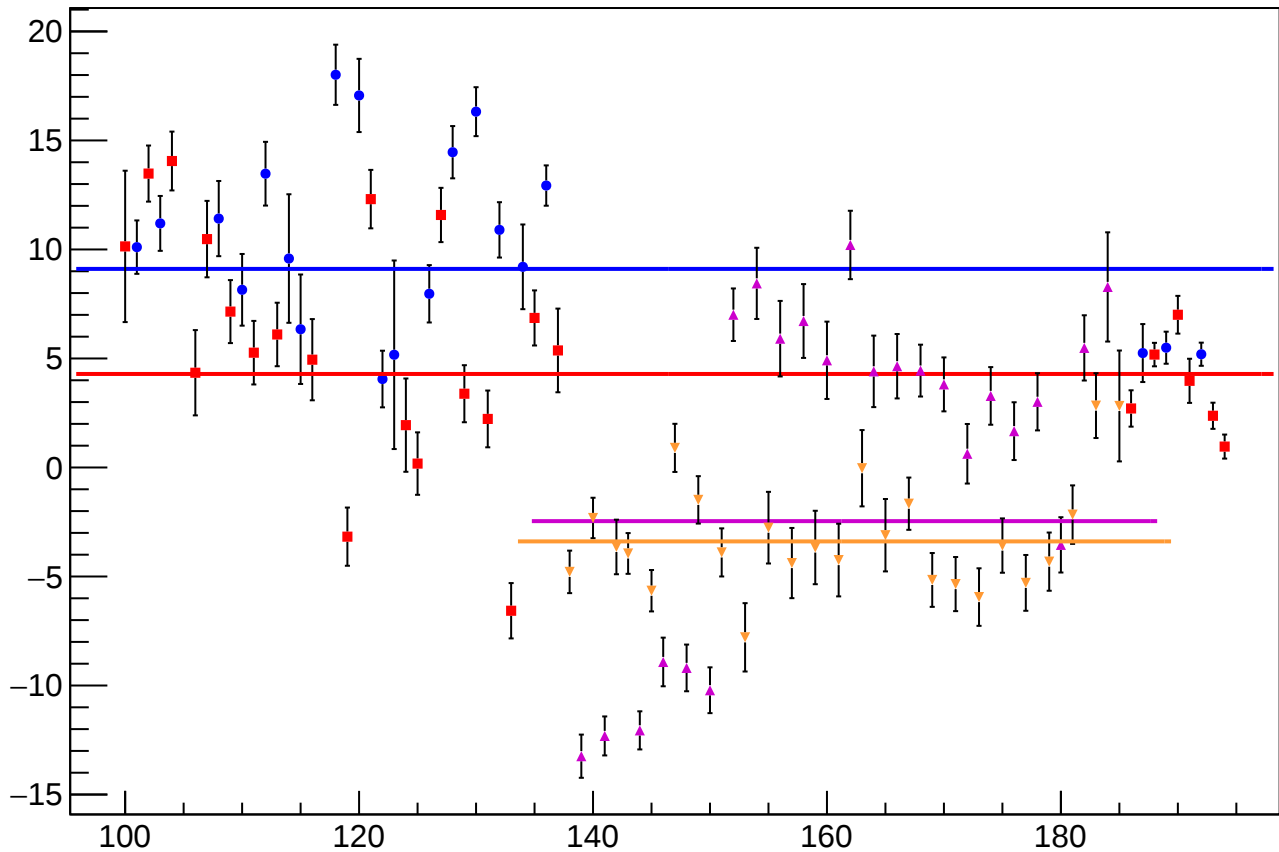
Right: 4164.843 ± 0.706 $\chi^2/\text{NDF}: 2791714.3/44$

In: 4669.438 ± 0.663 $\chi^2/\text{NDF}: 1481330.1/42$

Out: 4441.785 ± 0.597 $\chi^2/\text{NDF}: 2439225.2/49$

All: 4543.672 ± 0.443 $\chi^2/\text{NDF}: 3985722.0/92$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 9.108 ± 0.264 $\chi^2/\text{NDF}: 263.7/19$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 4.289 ± 0.213 $\chi^2/\text{NDF}: 379.2/24$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

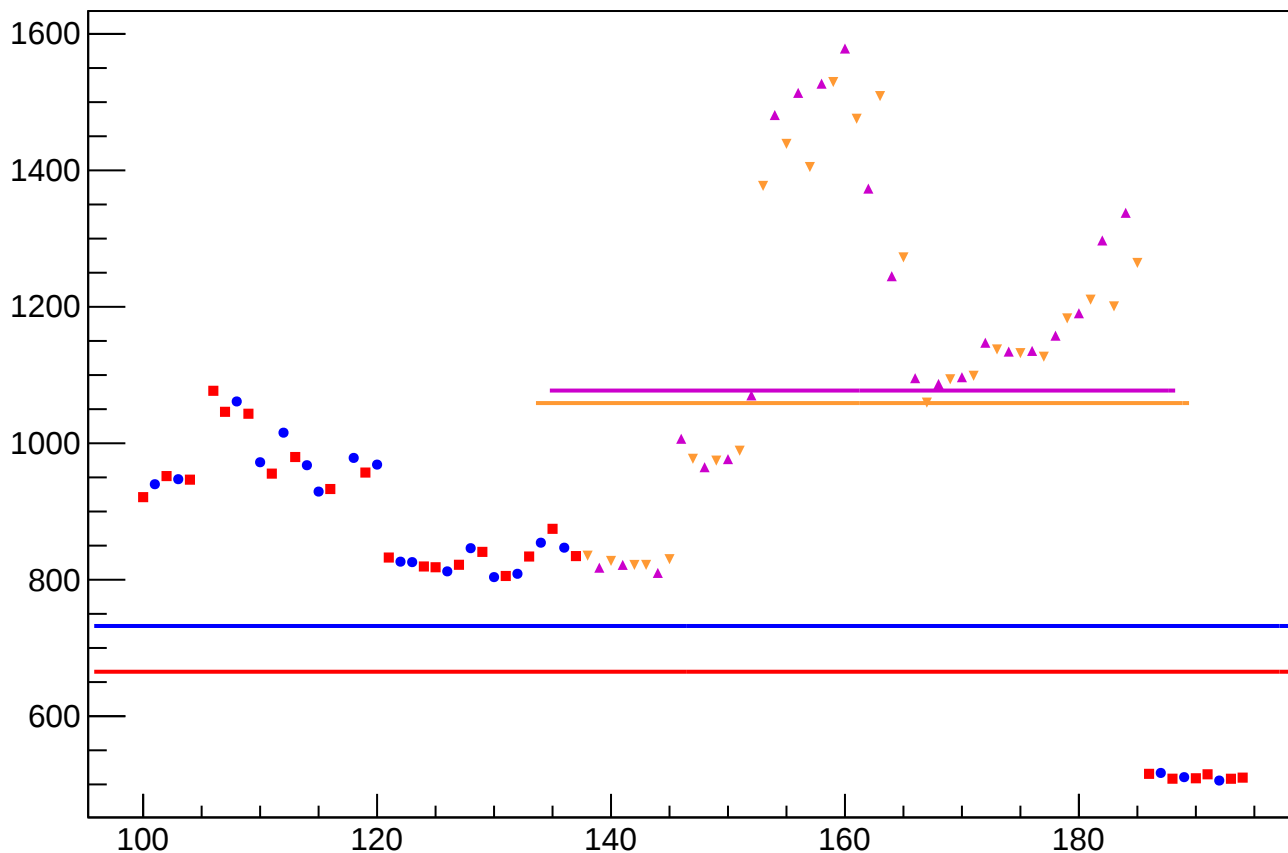
Right: 6.194 ± 0.166 $\chi^2/\text{NDF}: 844.5/44$

In: 3.334 ± 0.187 $\chi^2/\text{NDF}: 2150.8/42$

Out: 1.086 ± 0.163 $\chi^2/\text{NDF}: 997.2/49$

All: 2.057 ± 0.123 $\chi^2/\text{NDF}: 3230.2/92$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 732.220 $\pm$ 0.187 χ^2 /NDF: 1124339.3/19

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF:1403222.2/24

Right Out: 665.165 $\pm$ 0.151 χ^2 /NDF: 1727219.8/24

Left In: 1077.284 $\pm$ 0.187 χ^2 /NDF:1280349.9/22

Left: 1067.683 $\pm$ 0.129 χ^2 /NDF: 2688612.0/47

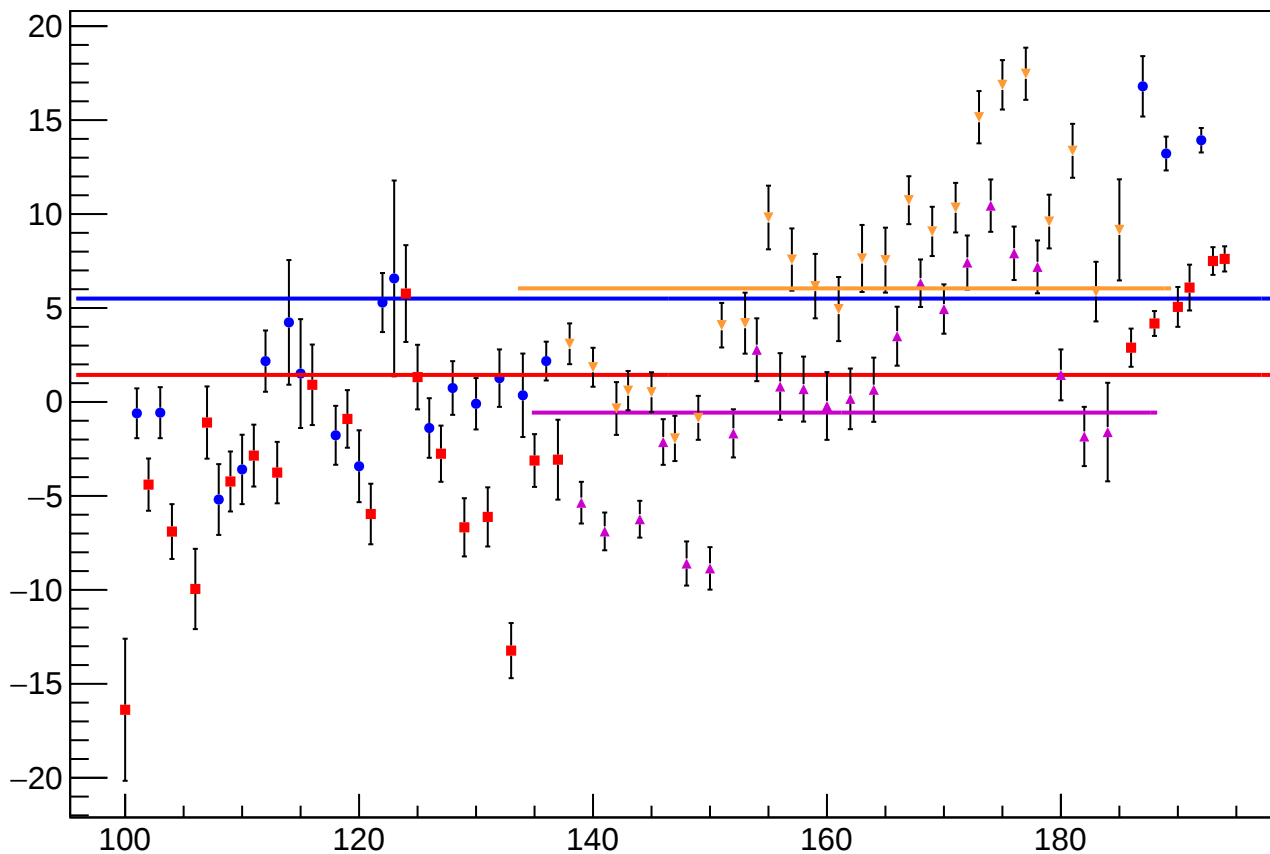
Right: 691.669 $\pm$ 0.117 χ^2 /NDF: 2929634.4/44

In: 904.461 $\pm$ 0.132 χ^2 /NDF:4111257.9/42

Out: 829.396 $\pm$ 0.115 χ^2 /NDF:5971439.3/49

All: 861.829 $\pm$ 0.087 χ^2 /NDF: 10266164.0/92

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 5.502 ± 0.311 $\chi^2/\text{NDF}: 507.9/19$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: 1.439 ± 0.254 $\chi^2/\text{NDF}: 529.8/24$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

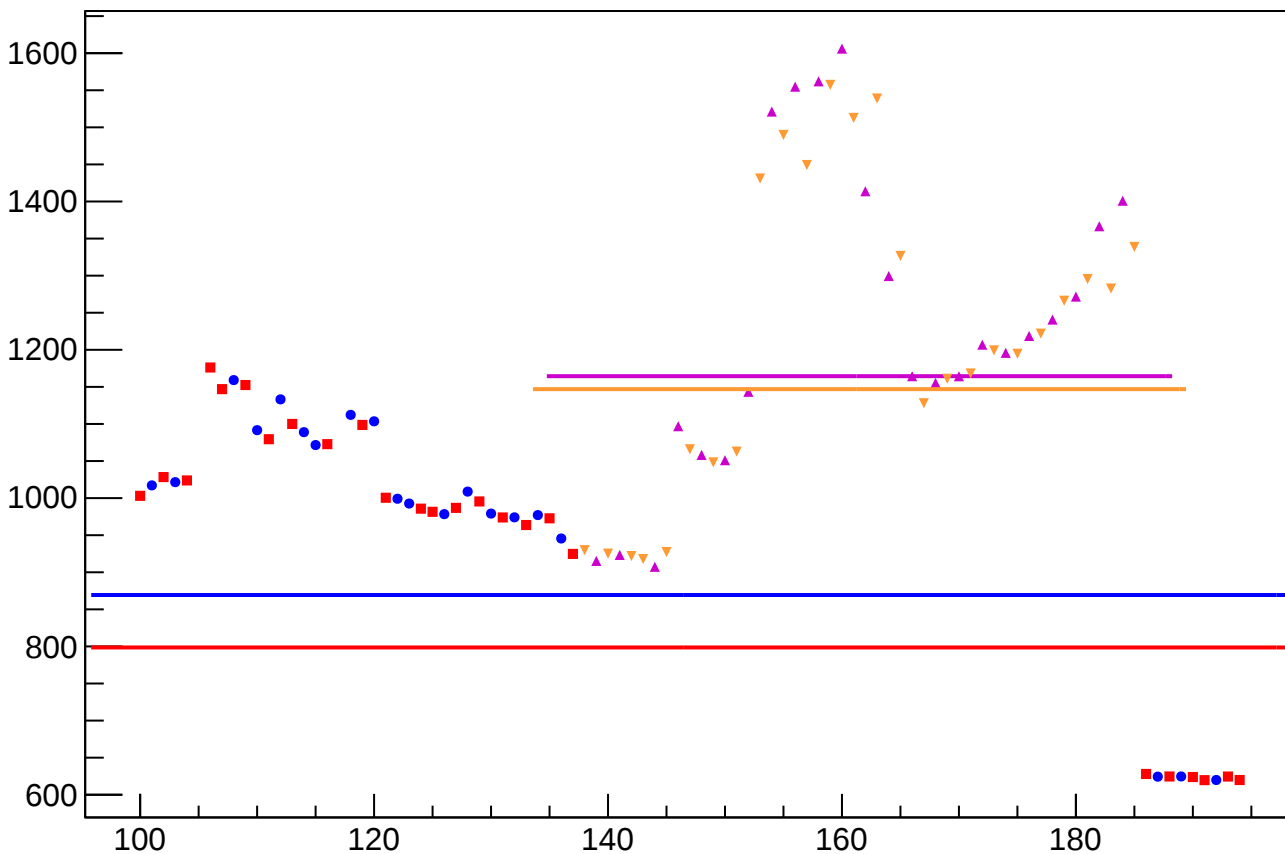
Right: 3.065 ± 0.196 $\chi^2/\text{NDF}: 1140.4/44$

In: 2.199 ± 0.210 $\chi^2/\text{NDF}: 1132.7/42$

Out: 3.584 ± 0.185 $\chi^2/\text{NDF}: 1114.2/49$

All: 2.976 ± 0.139 $\chi^2/\text{NDF}: 2271.4/92$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 869.357 $\pm$ 0.220 χ^2 /NDF: 844315.6/19

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 798.611 $\pm$ 0.179 χ^2 /NDF: 1332805.8/24

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF:944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2 /NDF: 1993824.0/47

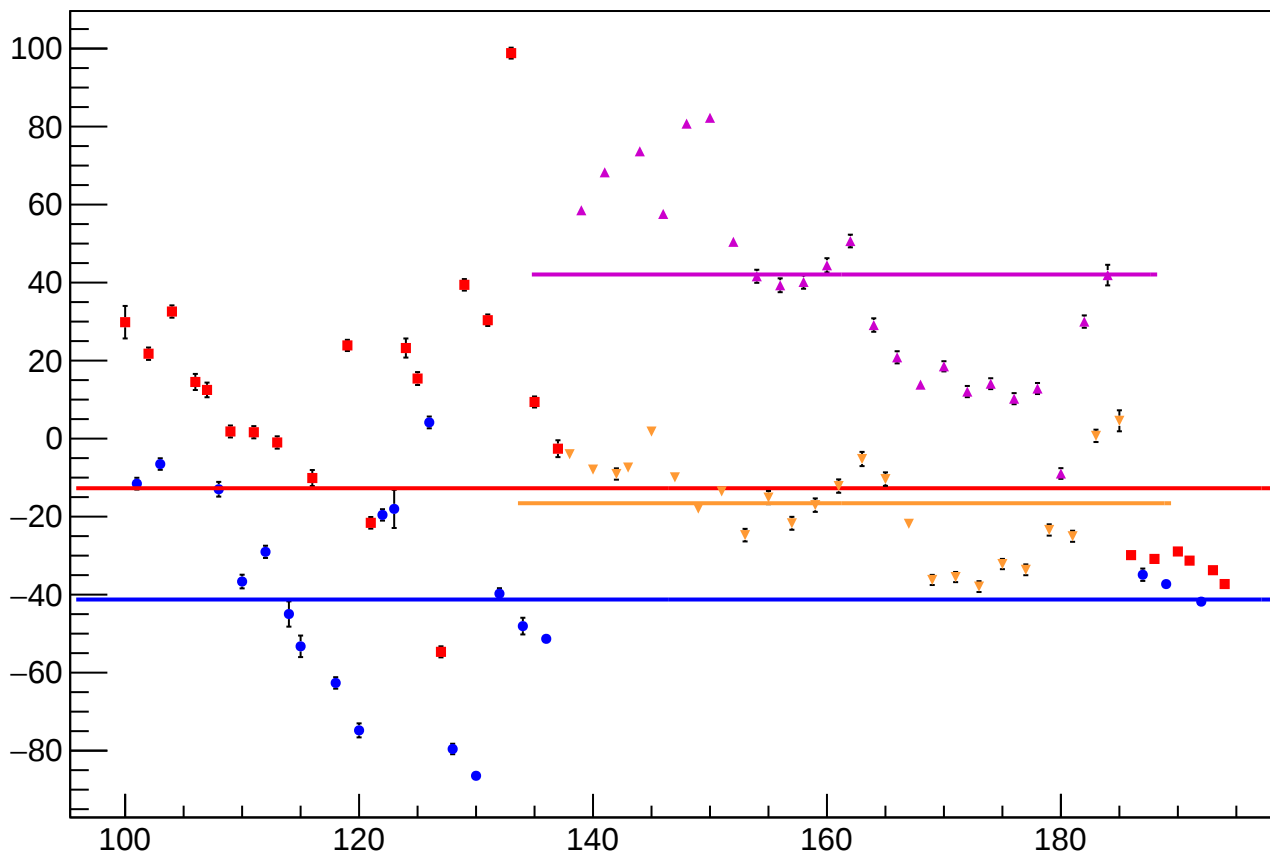
Right: 826.918 $\pm$ 0.139 χ^2 /NDF: 2239380.2/44

In: 1029.987 $\pm$ 0.148 χ^2 /NDF:2771297.2/42

Out: 960.840 $\pm$ 0.131 χ^2 /NDF:4135468.3/49

All: 991.188 $\pm$ 0.098 χ^2 /NDF: 7028866.7/92

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -41.252 ± 0.304 $\chi^2/\text{NDF}: 5141.1/19$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: -12.721 ± 0.247 $\chi^2/\text{NDF}: 16618.8/24$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

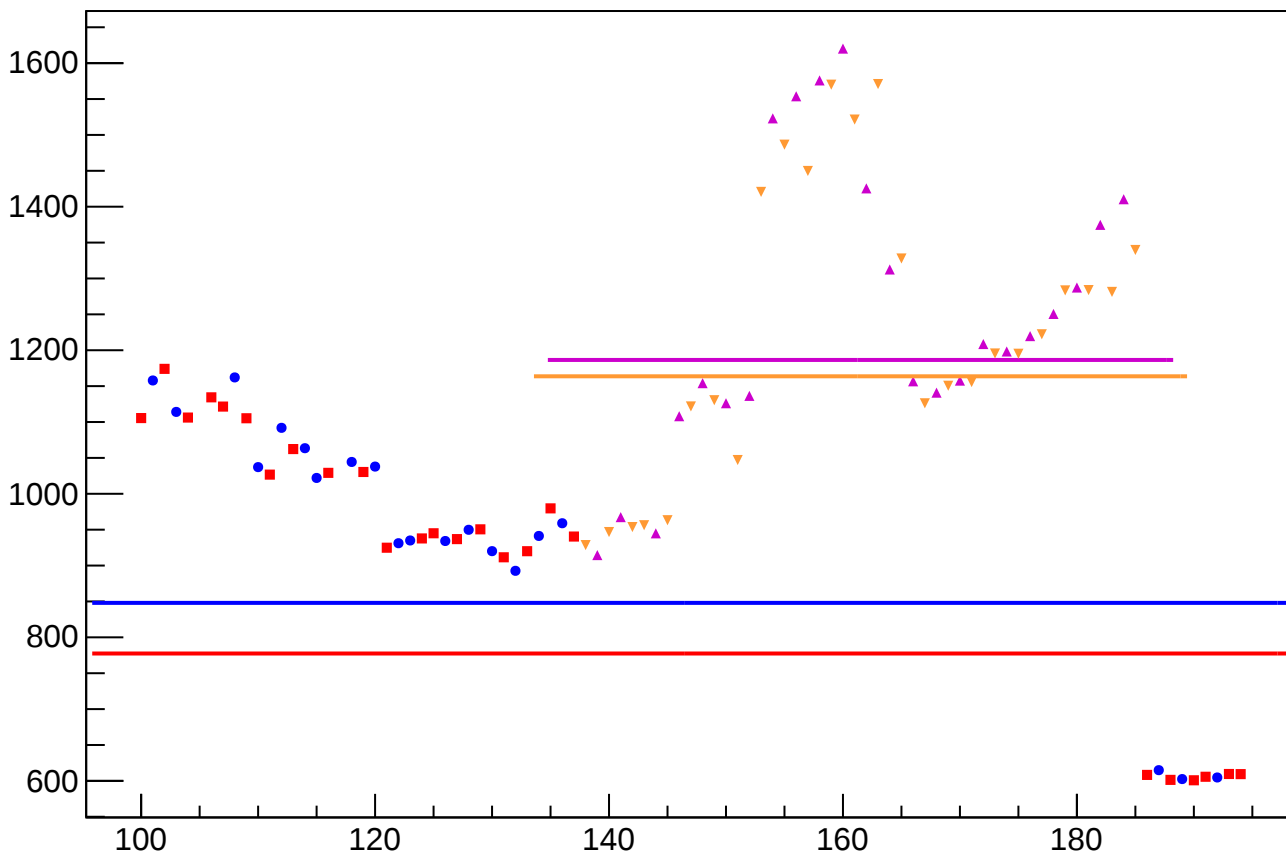
Right: -24.103 ± 0.192 $\chi^2/\text{NDF}: 27071.1/44$

In: 2.438 ± 0.209 $\chi^2/\text{NDF}: 52995.3/42$

Out: -14.439 ± 0.184 $\chi^2/\text{NDF}: 18658.0/49$

All: -7.085 ± 0.138 $\chi^2/\text{NDF}: 75321.2/92$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 848.012 $\pm$ 0.215 χ^2 /NDF: 907206.9/19

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 777.464 $\pm$ 0.175 χ^2 /NDF: 1394141.6/24

Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

Left: 1174.525 $\pm$ 0.141 χ^2 /NDF: 1776015.7/47

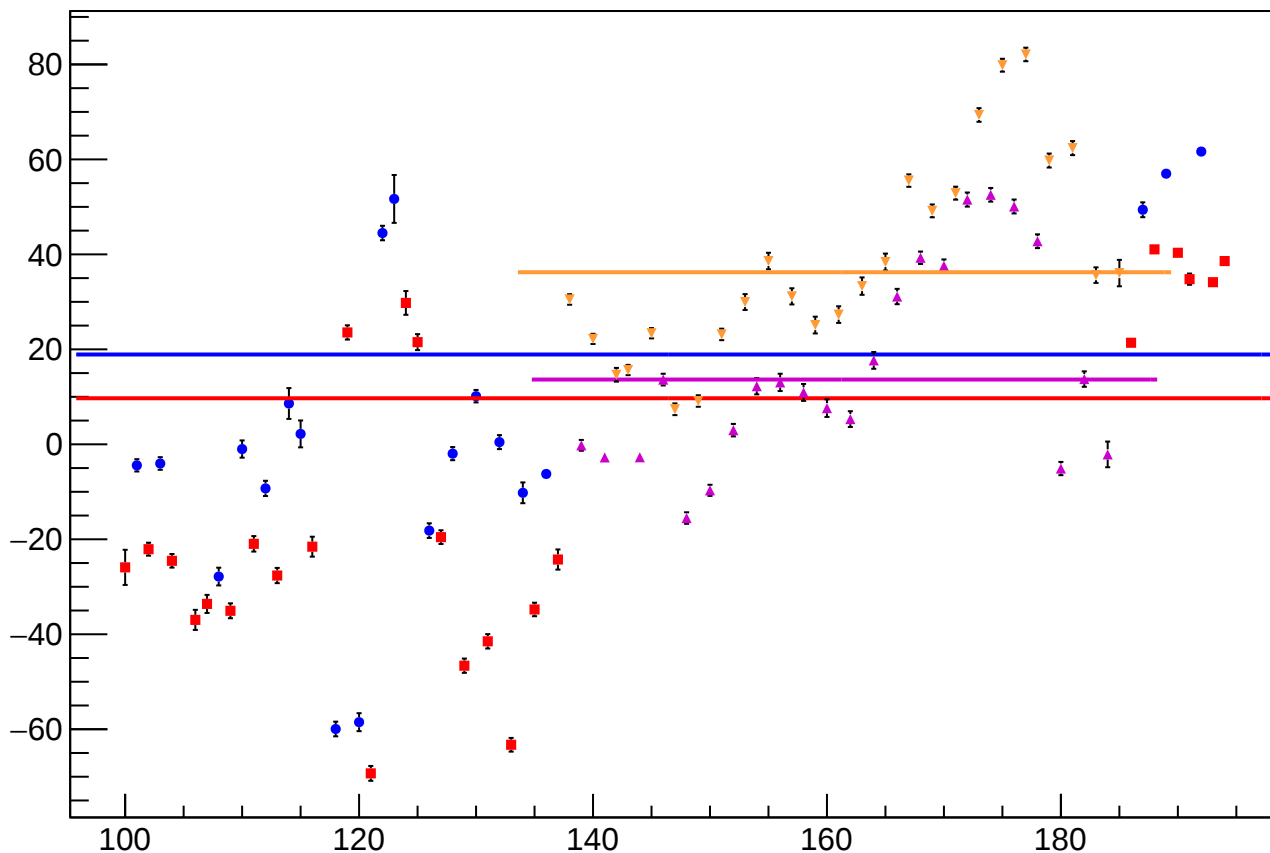
Right: 805.608 $\pm$ 0.136 χ^2 /NDF: 2366300.2/44

In: 1025.472 $\pm$ 0.148 χ^2 /NDF: 3044714.7/42

Out: 949.943 $\pm$ 0.130 χ^2 /NDF: 4509369.0/49

All: 982.853 $\pm$ 0.098 χ^2 /NDF: 7701003.3/92

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 18.915 ± 0.303 $\chi^2/\text{NDF}: 15031.4/19$

Left Out: 36.234 ± 0.280 $\chi^2/\text{NDF}: 5794.2/24$

Right Out: 9.698 ± 0.246 $\chi^2/\text{NDF}: 20748.7/24$

Left In: 13.640 ± 0.293 $\chi^2/\text{NDF}: 5178.0/22$

Left: 25.447 ± 0.202 $\chi^2/\text{NDF}: 14084.0/47$

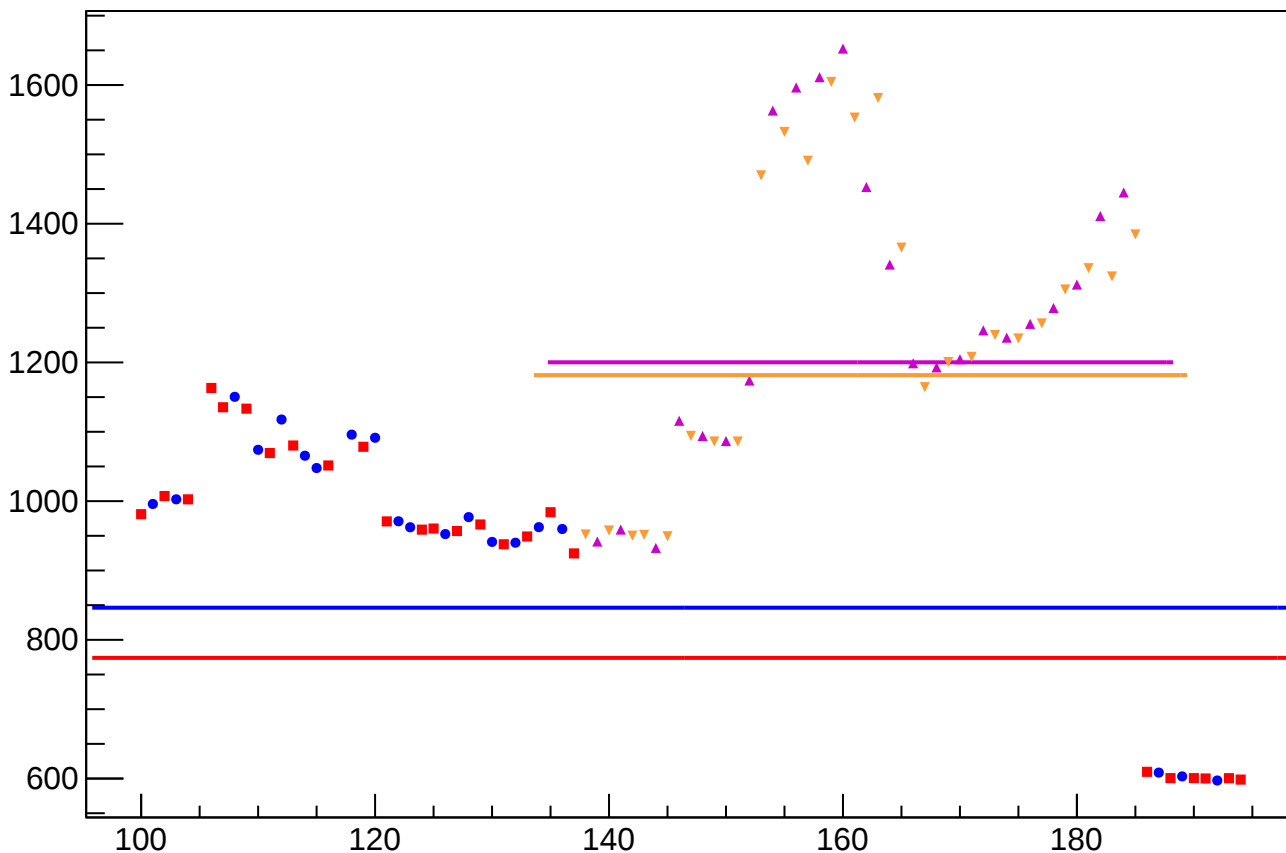
Right: 13.367 ± 0.191 $\chi^2/\text{NDF}: 36337.4/44$

In: 16.188 ± 0.211 $\chi^2/\text{NDF}: 20366.2/42$

Out: 21.283 ± 0.185 $\chi^2/\text{NDF}: 31608.2/49$

All: 19.064 ± 0.139 $\chi^2/\text{NDF}: 52305.0/92$

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 846.344 $\pm$ 0.214 χ^2 /NDF: 908534.6/19

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 774.016 $\pm$ 0.174 χ^2 /NDF: 1427125.7/24

Left In: 1200.198 $\pm$ 0.207 χ^2 /NDF:938224.7/22

Left: 1190.549 $\pm$ 0.143 χ^2 /NDF: 1985902.3/47

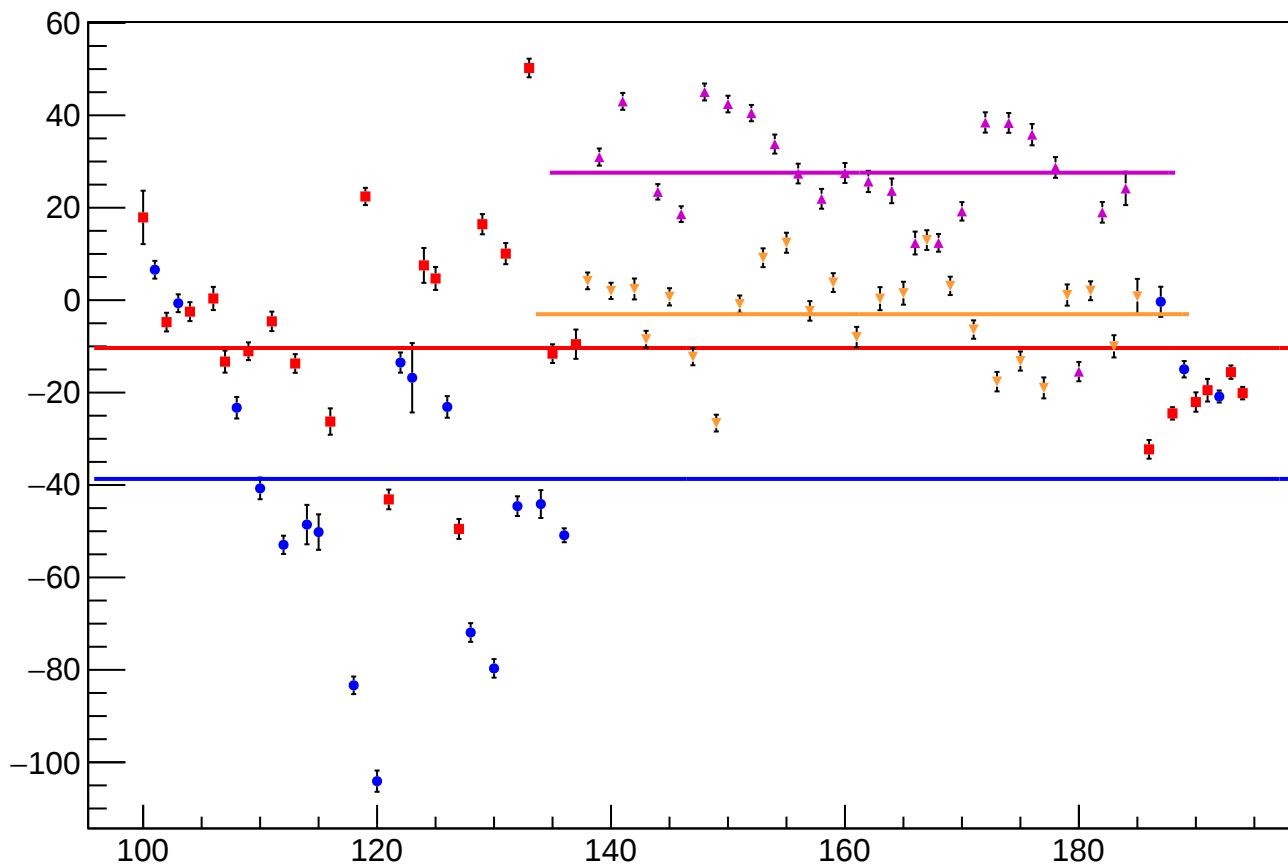
Right: 802.811 $\pm$ 0.135 χ^2 /NDF: 2404288.0/44

In: 1029.283 $\pm$ 0.149 χ^2 /NDF:3257715.7/42

Out: 952.015 $\pm$ 0.131 χ^2 /NDF:4862067.6/49

All: 985.668 $\pm$ 0.098 χ^2 /NDF: 8271858.9/92

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -38.682 ± 0.475 χ^2/NDF : 3868.7/19

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -10.350 ± 0.412 χ^2/NDF : 2517.2/24

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

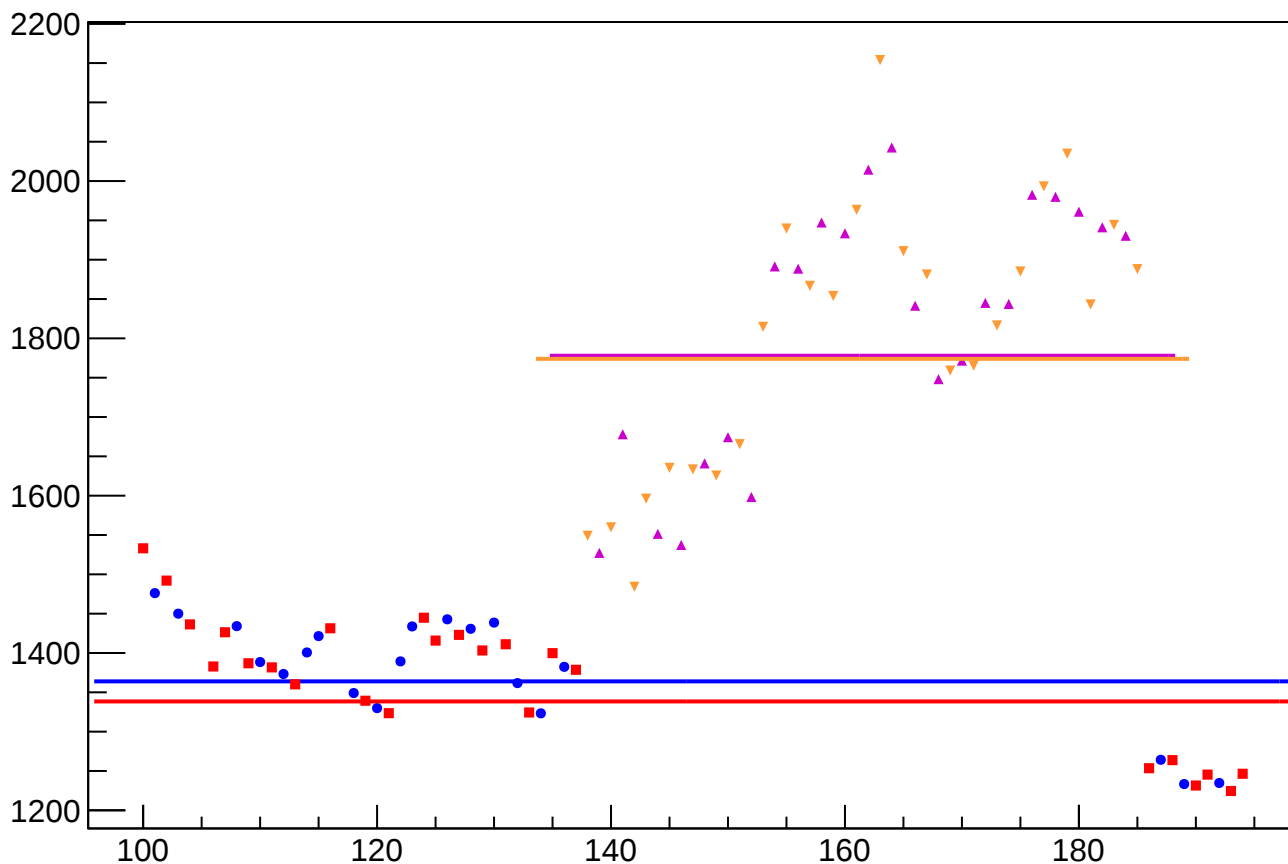
Right: -22.512 ± 0.311 χ^2/NDF : 8414.7/44

In: -2.175 ± 0.318 χ^2/NDF : 15541.8/42

Out: -6.720 ± 0.292 χ^2/NDF : 3229.1/49

All: -4.640 ± 0.215 χ^2/NDF : 18881.5/92

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1363.911 $\pm$ 0.336 χ^2/NDF : 54923.9/19

Left Out: 1773.965 $\pm$ 0.294 χ^2/NDF : 313031.1/24

Right Out: 1338.404 $\pm$ 0.291 χ^2/NDF : 78636.6/24

Left In: 1777.884 $\pm$ 0.303 χ^2/NDF : 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2/NDF : 612631.3/47

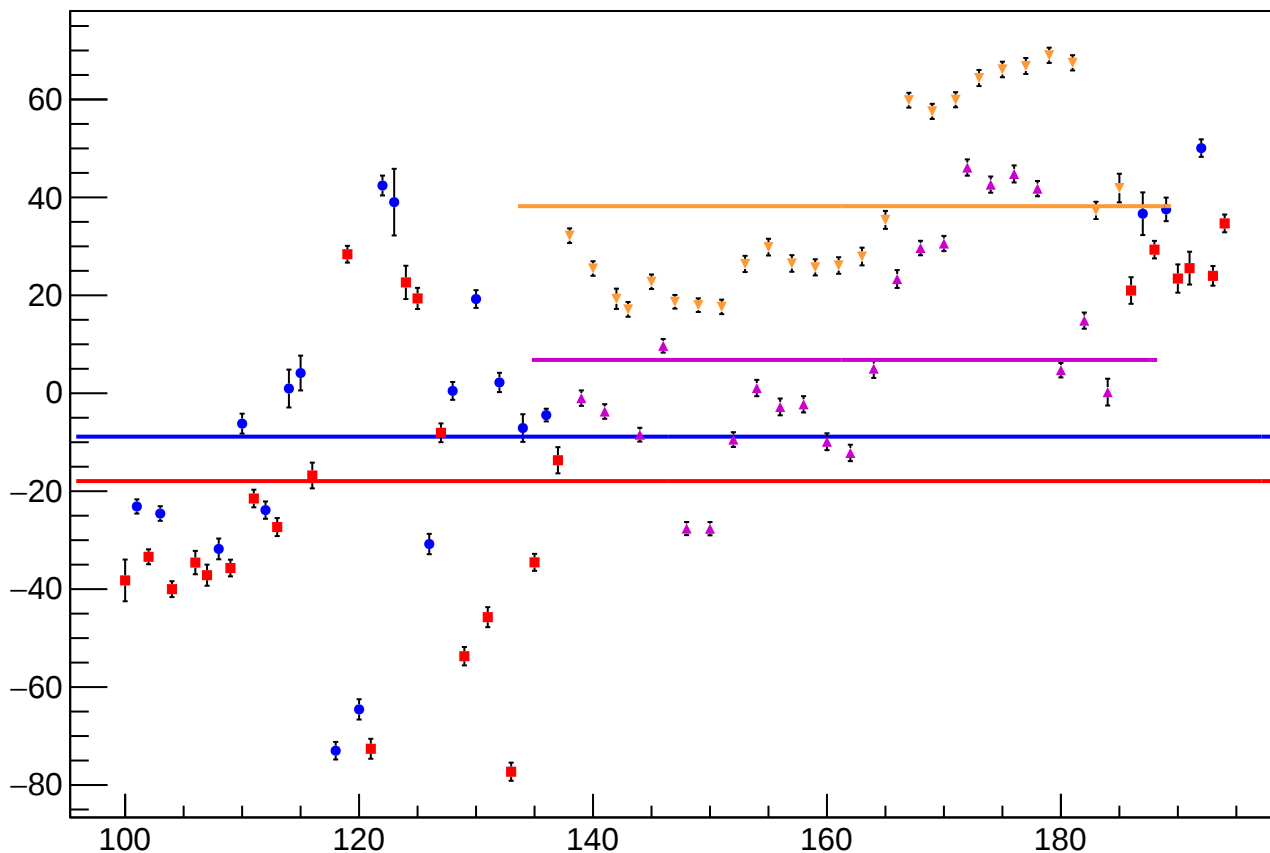
Right: 1349.353 $\pm$ 0.220 χ^2/NDF : 136849.2/44

In: 1591.982 $\pm$ 0.225 χ^2/NDF : 1190661.2/42

Out: 1554.614 $\pm$ 0.207 χ^2/NDF : 1500707.4/49

All: 1571.710 $\pm$ 0.152 χ^2/NDF : 2706308.5/92

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -8.858 ± 0.447 χ^2/NDF : 5094.8/19

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -17.934 ± 0.408 χ^2/NDF : 6716.2/24

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

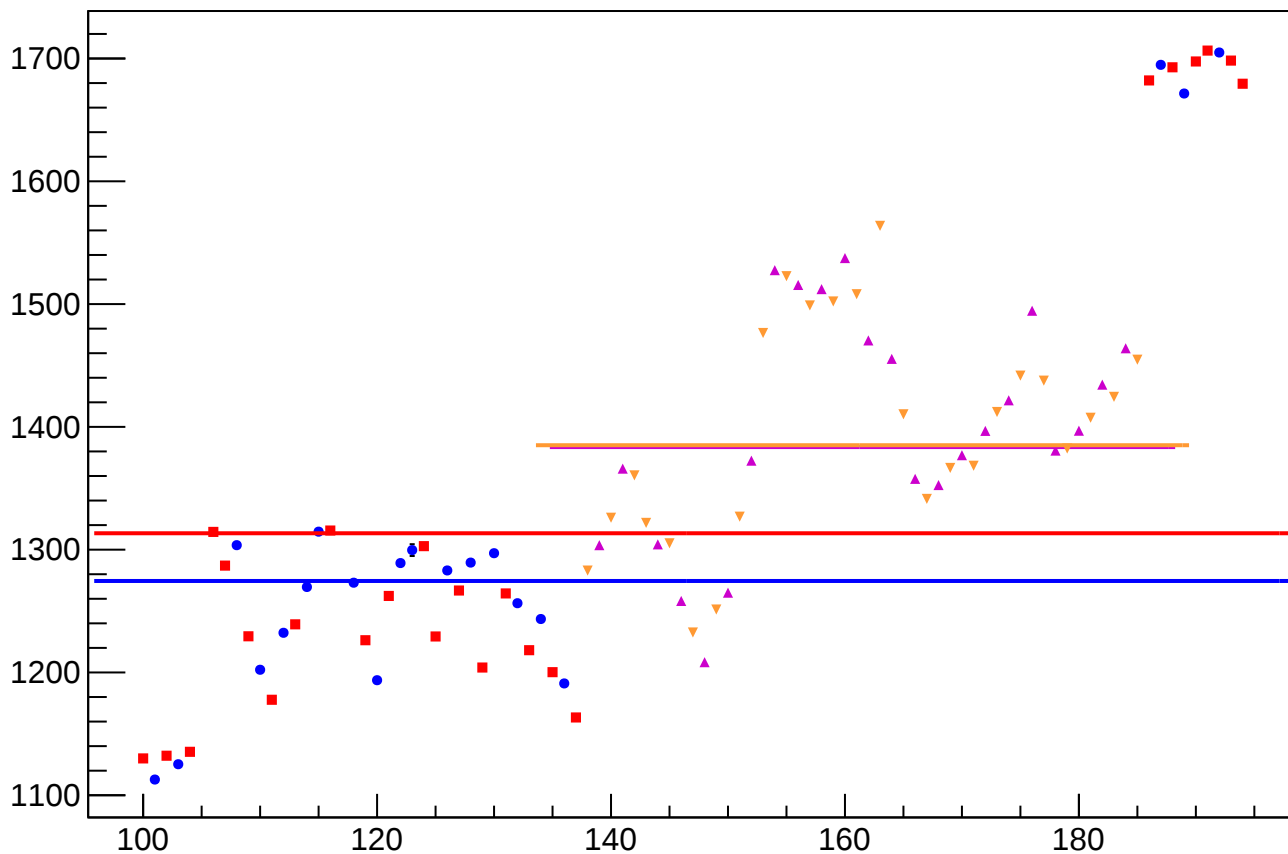
Right: -13.804 ± 0.301 χ^2/NDF : 12035.8/44

In: 1.214 ± 0.267 χ^2/NDF : 10379.7/42

Out: 16.566 ± 0.253 χ^2/NDF : 21848.2/49

All: 9.288 ± 0.184 χ^2/NDF : 33966.5/92

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1274.503 $\pm$ 0.316 χ^2 /NDF: 249948.0/19

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF: 146001.5/24

Right Out: 1313.364 $\pm$ 0.289 χ^2 /NDF: 458951.5/24

Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF: 154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2 /NDF: 300718.5/47

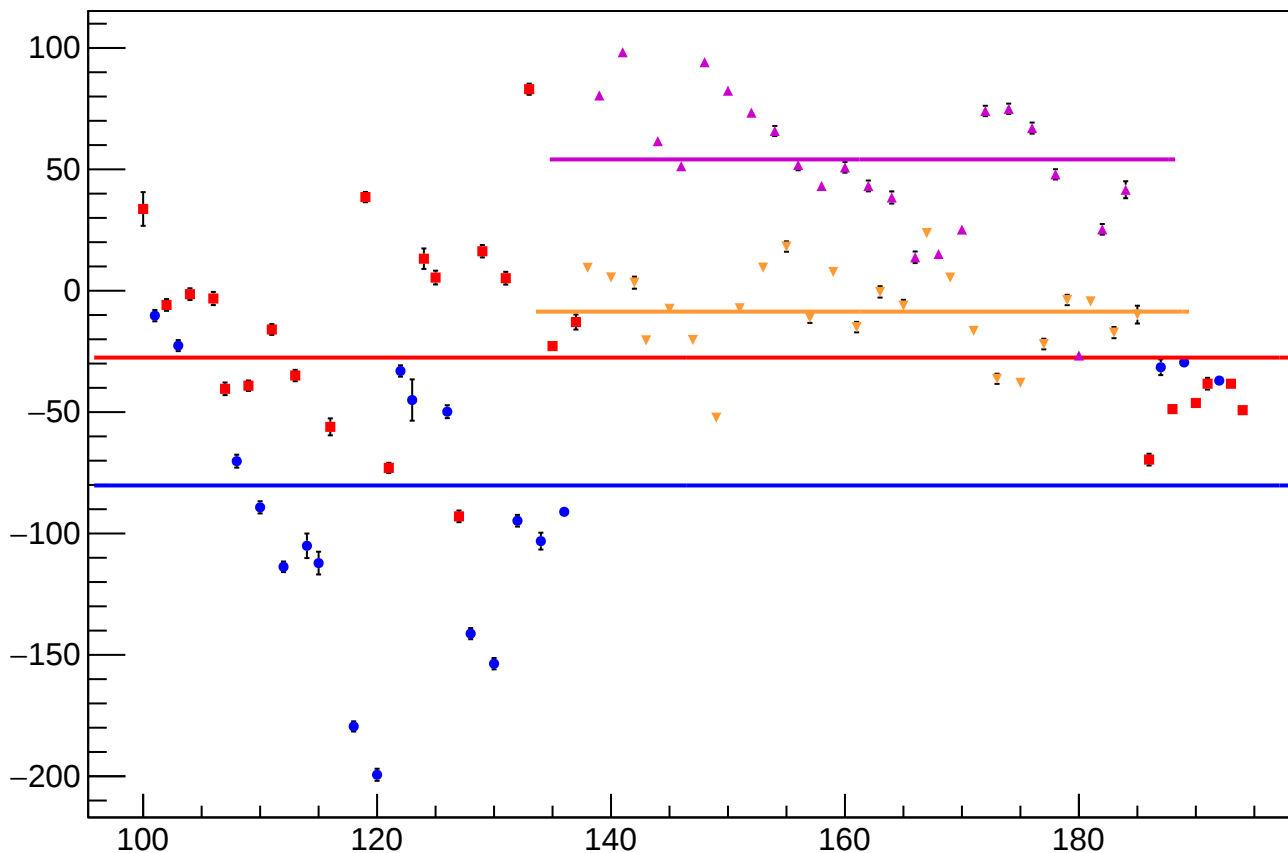
Right: 1295.681 $\pm$ 0.213 χ^2 /NDF: 717143.6/44

In: 1344.619 $\pm$ 0.189 χ^2 /NDF: 481241.0/42

Out: 1357.425 $\pm$ 0.179 χ^2 /NDF: 642852.9/49

All: 1351.354 $\pm$ 0.130 χ^2 /NDF: 1126513.8/92

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -80.211 $\pm$ 0.513 χ^2/NDF : 10972.8/19

Left Out: -8.606 $\pm$ 0.410 χ^2/NDF :1930.5/24

Right Out: -27.538 $\pm$ 0.443 χ^2/NDF : 6630.1/24

Left In: 54.089 $\pm$ 0.426 χ^2/NDF :4721.6/22

Left: 21.586 $\pm$ 0.295 χ^2/NDF : 17900.0/47

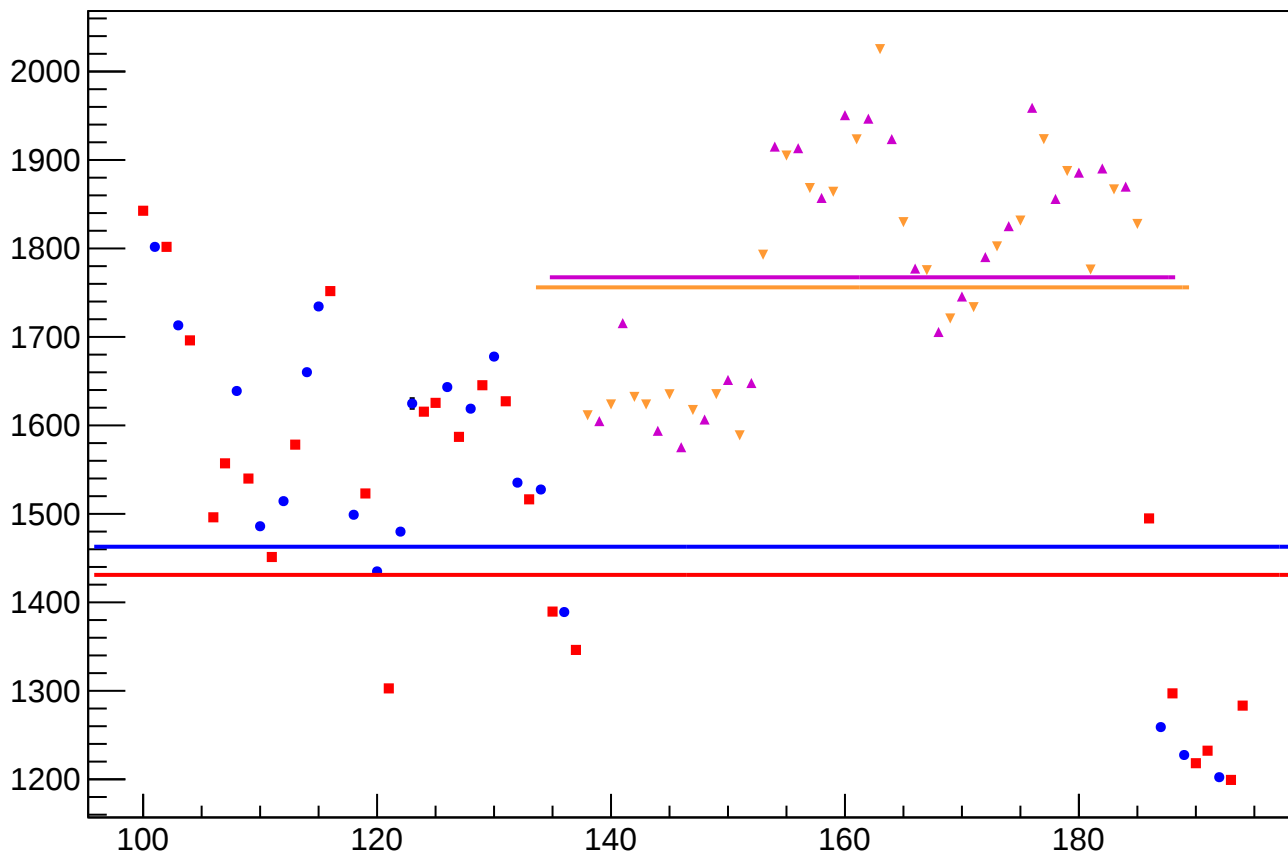
Right: -50.053 $\pm$ 0.335 χ^2/NDF : 23638.7/44

In: -0.668 $\pm$ 0.328 χ^2/NDF :56285.3/42

Out: -17.340 $\pm$ 0.301 χ^2/NDF :9543.3/49

All: -9.705 $\pm$ 0.222 χ^2/NDF : 67232.7/92

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1462.872 $\pm$ 0.363 χ^2/NDF : 258353.3/19

Left Out: 1756.034 $\pm$ 0.290 χ^2/NDF :175762.3/24

Right Out: 1431.042 $\pm$ 0.313 χ^2/NDF : 307483.9/24

Left In: 1767.410 $\pm$ 0.301 χ^2/NDF :187958.2/22

Left: 1761.512 $\pm$ 0.209 χ^2/NDF : 364461.2/47

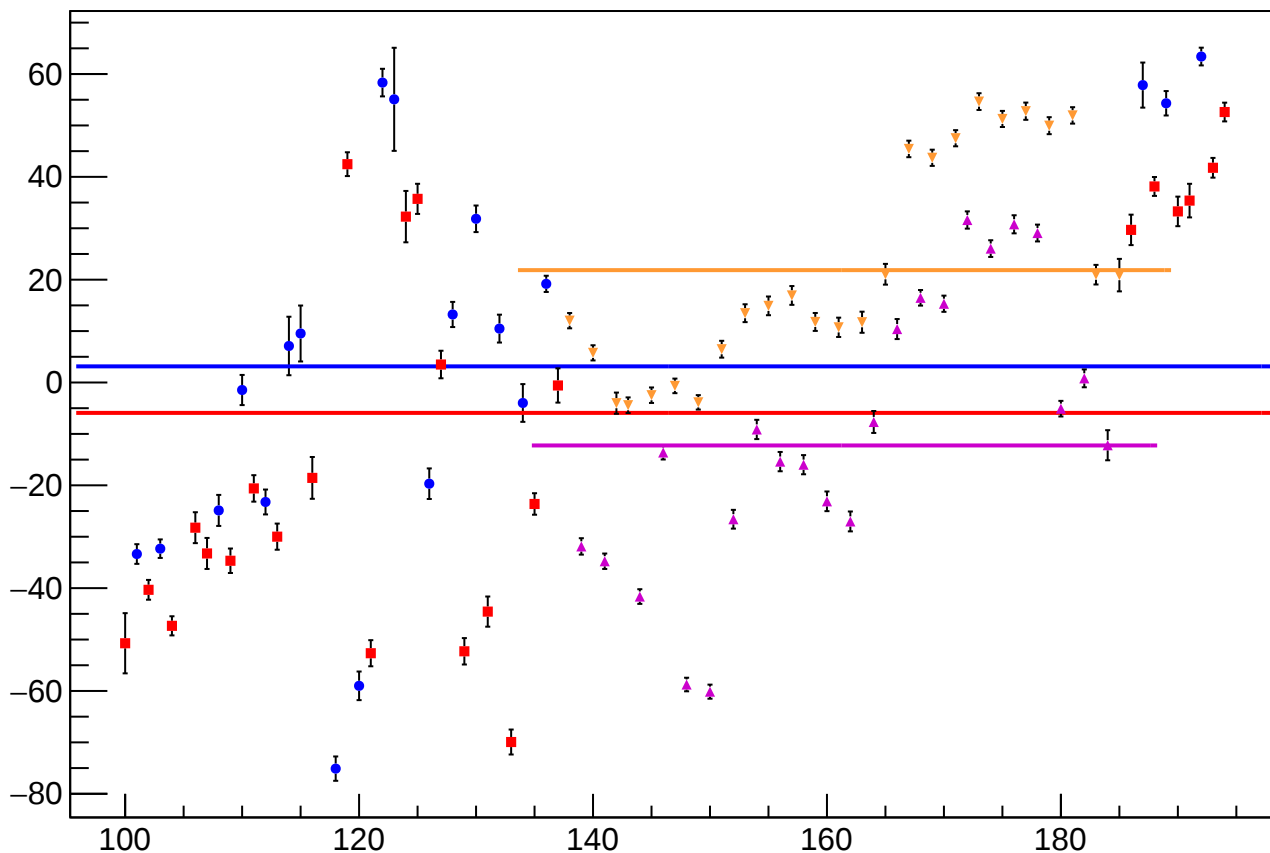
Right: 1444.648 $\pm$ 0.237 χ^2/NDF : 570245.4/44

In: 1643.244 $\pm$ 0.232 χ^2/NDF :863749.9/42

Out: 1606.105 $\pm$ 0.213 χ^2/NDF :1062349.5/49

All: 1623.112 $\pm$ 0.157 χ^2/NDF : 1940036.0/92

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 3.137+/-0.567 χ^2/NDF : 5156.3/19

Left Out: 21.856+/-0.335 χ^2/NDF :4110.5/24

Right Out: -5.912+/-0.504 χ^2/NDF : 6317.3/24

Left In: -12.246+/-0.347 χ^2/NDF :6781.6/22

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

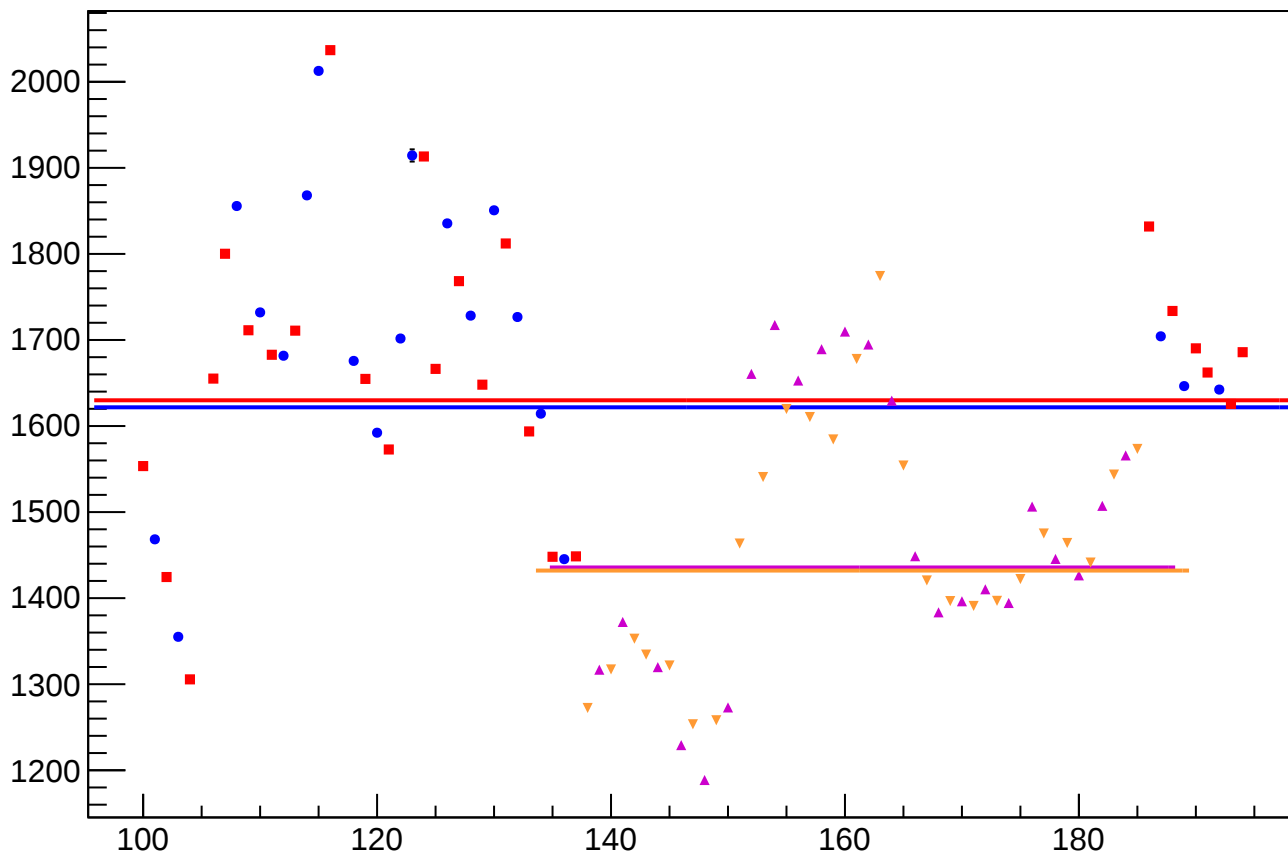
Right: -1.924+/-0.377 χ^2/NDF : 11615.8/44

In: -8.058+/-0.296 χ^2/NDF :12472.8/42

Out: 13.329+/-0.279 χ^2/NDF :12533.5/49

All: 3.265+/-0.203 χ^2/NDF : 27769.0/92

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1621.762 $\pm$ 0.401 χ^2 /NDF: 150590.3/19

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1629.913 $\pm$ 0.356 χ^2 /NDF: 176826.5/24

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

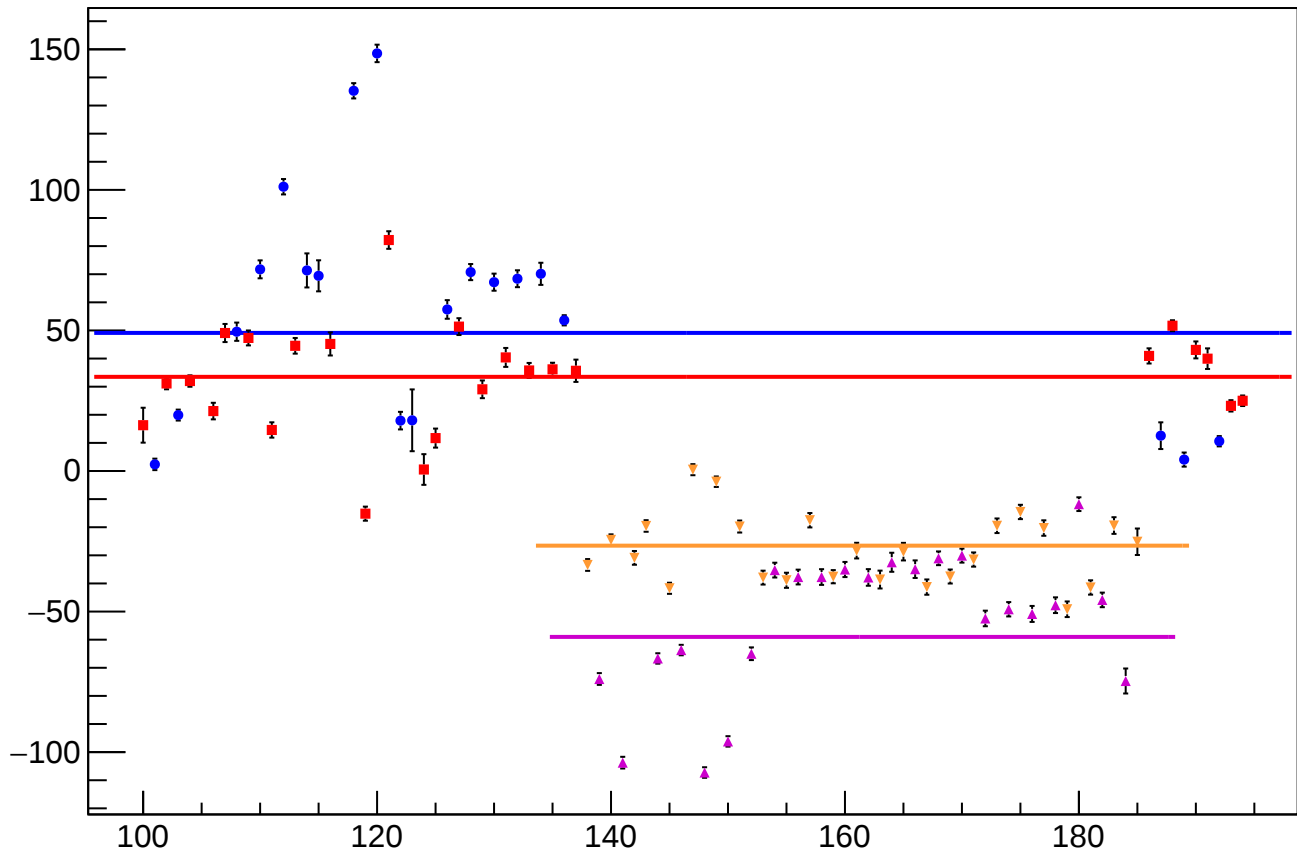
Right: 1626.321 $\pm$ 0.266 χ^2 /NDF: 327647.6/44

In: 1486.316 $\pm$ 0.209 χ^2 /NDF: 728021.0/42

Out: 1492.814 $\pm$ 0.197 χ^2 /NDF: 688000.5/49

All: 1489.756 $\pm$ 0.144 χ^2 /NDF: 1416531.6/92

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 49.124 ± 0.628 $\chi^2/\text{NDF}: 4317.8/19$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: 33.497 ± 0.546 $\chi^2/\text{NDF}: 1045.6/24$

Left In: -59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

Left: -42.178 ± 0.351 $\chi^2/\text{NDF}: 5632.2/47$

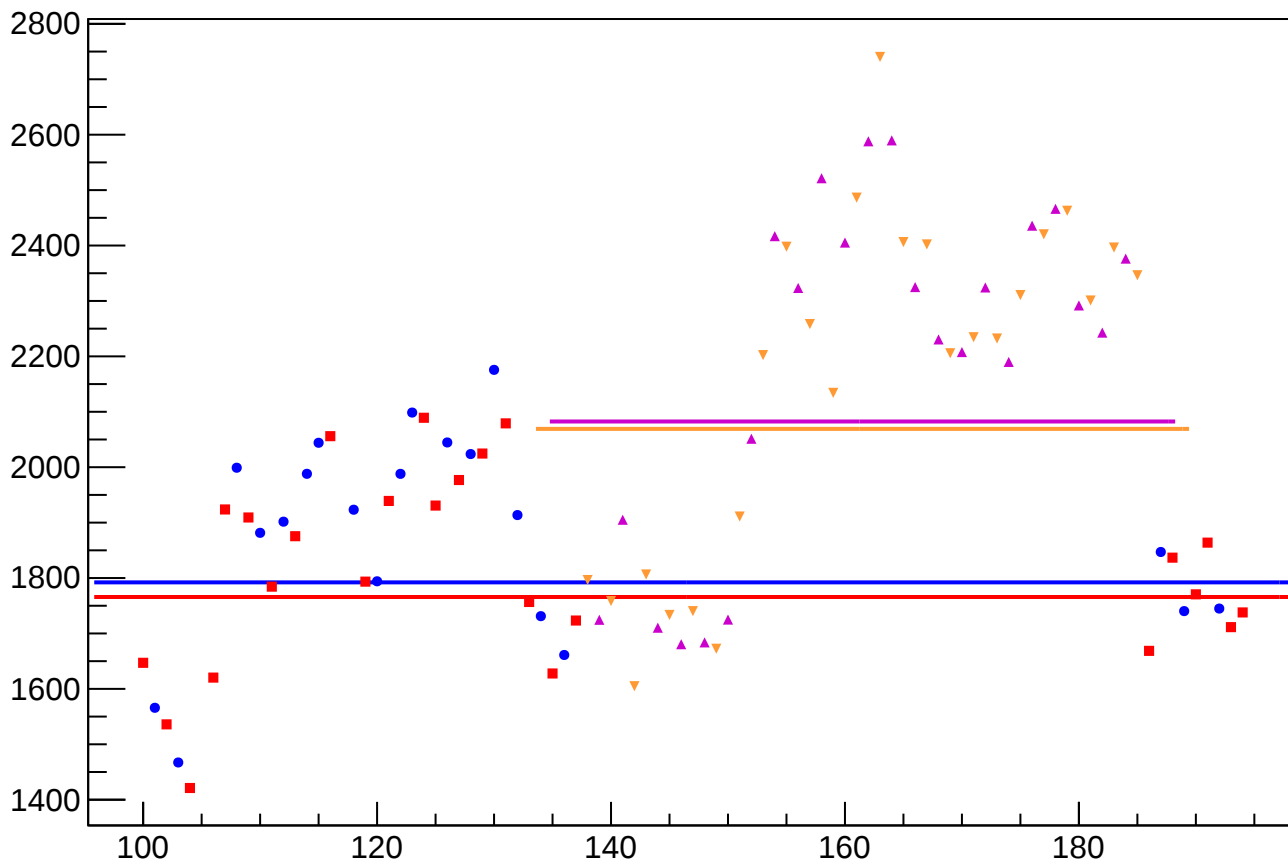
Right: 40.223 ± 0.412 $\chi^2/\text{NDF}: 5716.6/44$

In: -16.369 ± 0.394 $\chi^2/\text{NDF}: 25082.9/42$

Out: 0.128 ± 0.364 $\chi^2/\text{NDF}: 8495.1/49$

All: -7.459 ± 0.267 $\chi^2/\text{NDF}: 34524.3/92$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1792.175 ± 0.444 $\chi^2/\text{NDF}: 186391.2/19$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1765.792 ± 0.386 $\chi^2/\text{NDF}: 186455.3/24$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

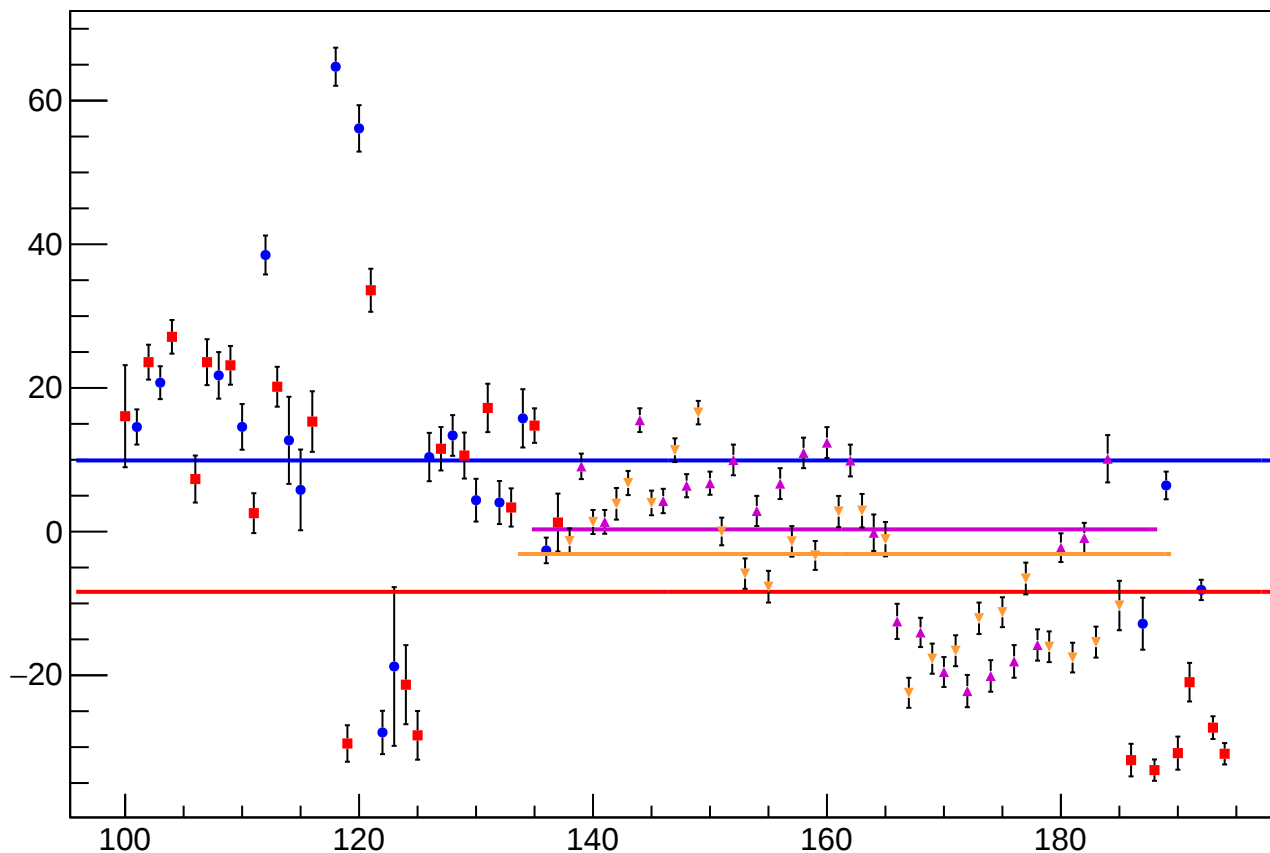
Right: 1777.148 ± 0.291 $\chi^2/\text{NDF}: 374859.6/44$

In: 1968.008 ± 0.279 $\chi^2/\text{NDF}: 1230904.1/42$

Out: 1934.358 ± 0.257 $\chi^2/\text{NDF}: 1329079.7/49$

All: 1949.833 ± 0.189 $\chi^2/\text{NDF}: 2567858.3/92$

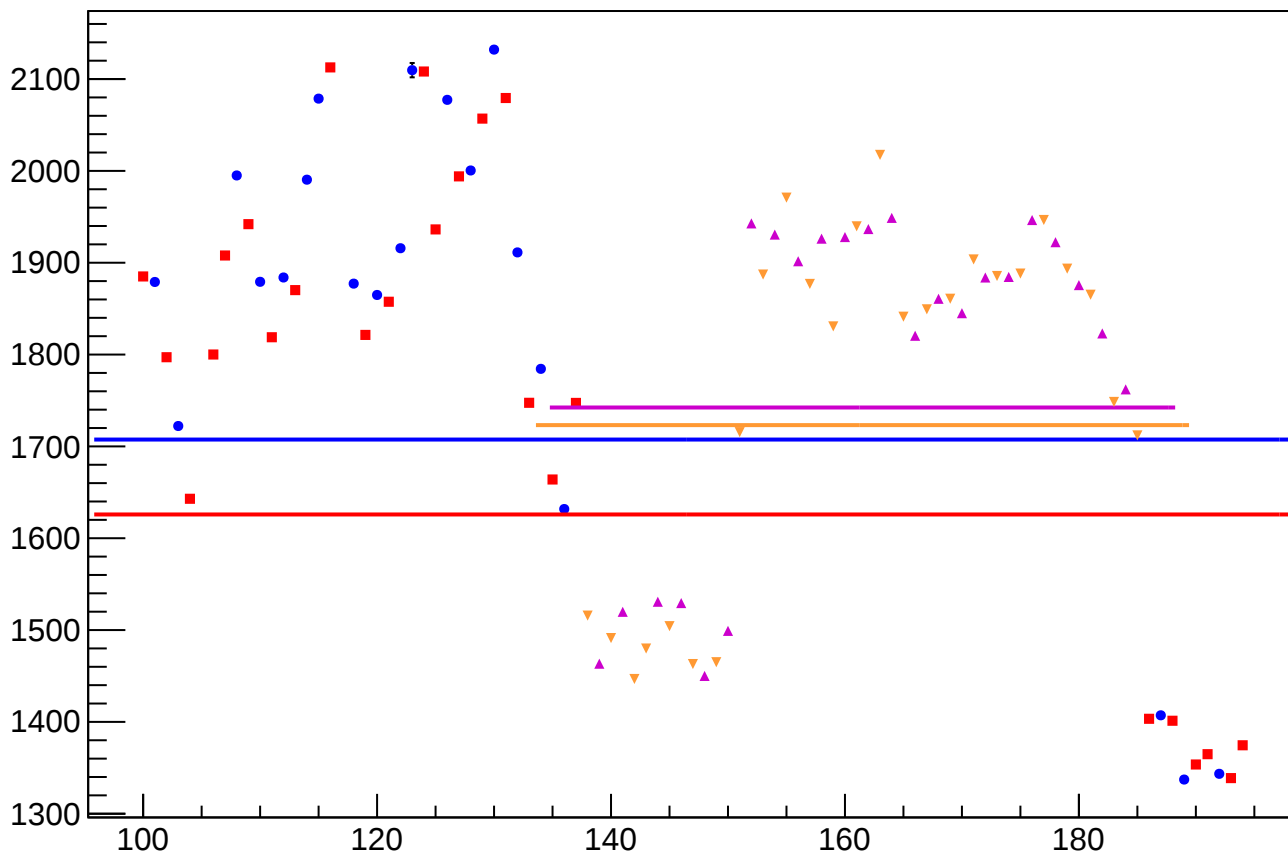
diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 9.908 ± 0.602 $\chi^2/\text{NDF}: 1215.2/19$
 Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$
 Right Out: -8.381 ± 0.506 $\chi^2/\text{NDF}: 2263.5/24$
 Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$
 Right: -0.801 ± 0.387 $\chi^2/\text{NDF}: 4019.6/44$
 In: 3.466 ± 0.345 $\chi^2/\text{NDF}: 2122.5/42$
 Out: -5.163 ± 0.316 $\chi^2/\text{NDF}: 2973.4/49$
 All: -1.228 ± 0.233 $\chi^2/\text{NDF}: 5436.2/92$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1707.453 $\pm$ 0.425 χ^2 /NDF: 398463.1/19

Left Out: 1723.168 $\pm$ 0.286 χ^2 /NDF: 477441.1/24

Right Out: 1625.873 $\pm$ 0.358 χ^2 /NDF: 512866.8/24

Left In: 1742.354 $\pm$ 0.298 χ^2 /NDF: 435841.5/22

Left: 1732.370 $\pm$ 0.206 χ^2 /NDF: 915443.3/47

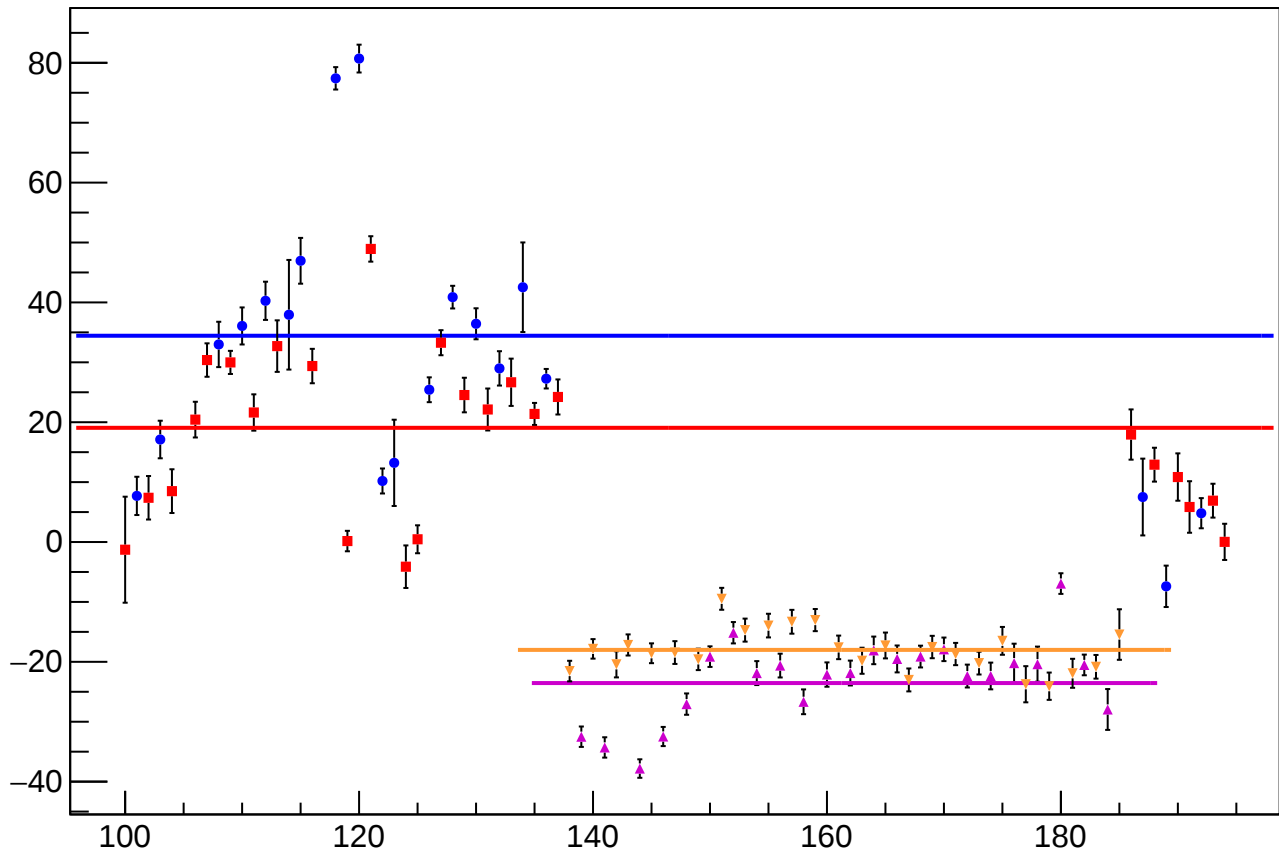
Right: 1659.686 $\pm$ 0.274 χ^2 /NDF: 932854.5/44

In: 1730.881 $\pm$ 0.244 χ^2 /NDF: 838821.1/42

Out: 1685.287 $\pm$ 0.223 χ^2 /NDF: 1035416.7/92

All: 1706.080 $\pm$ 0.165 χ^2 /NDF: 1893238.7/92

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 34.437 ± 0.607 $\chi^2/\text{NDF}: 1542.2/19$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 19.066 ± 0.557 $\chi^2/\text{NDF}: 658.9/24$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

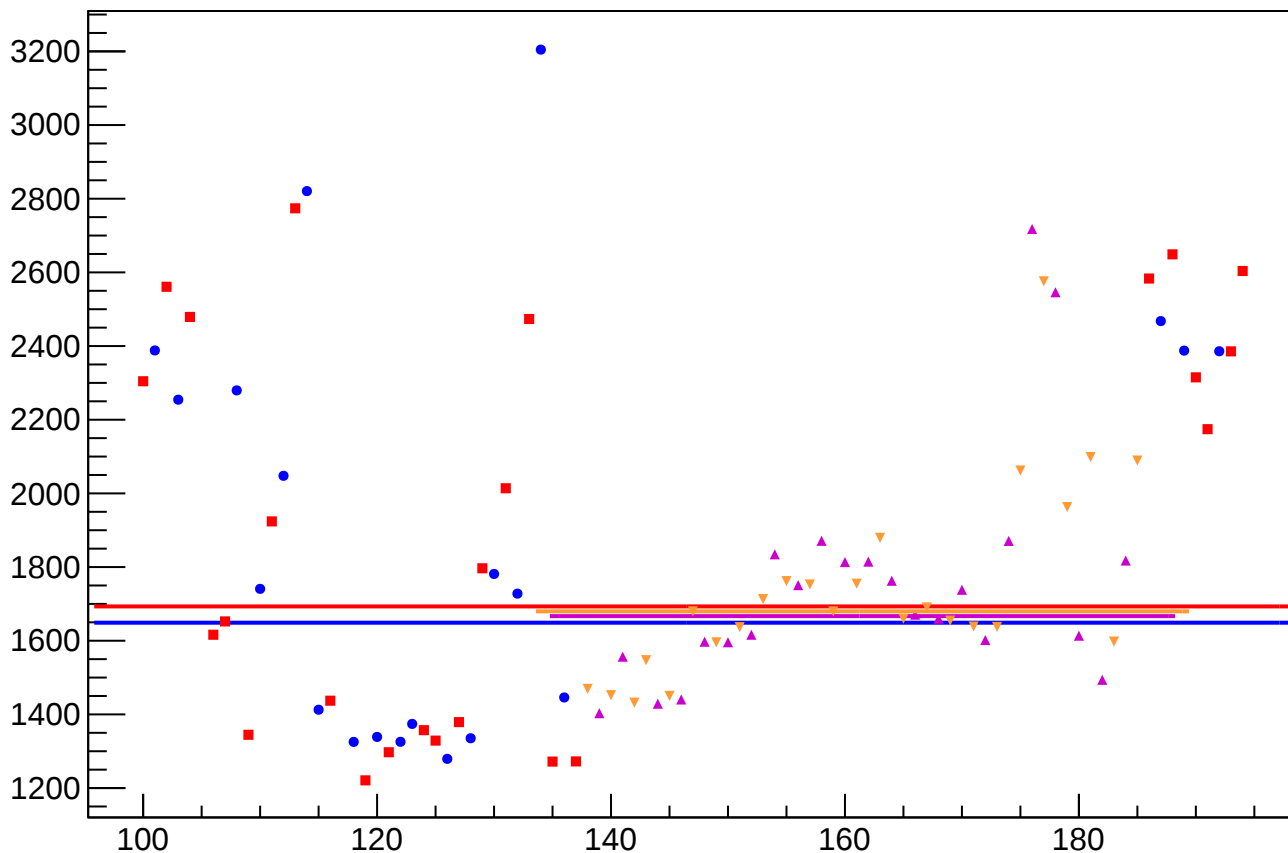
Right: 26.093 ± 0.410 $\chi^2/\text{NDF}: 2549.5/44$

In: -5.631 ± 0.337 $\chi^2/\text{NDF}: 8200.5/42$

Out: -5.524 ± 0.323 $\chi^2/\text{NDF}: 3673.7/49$

All: -5.575 ± 0.233 $\chi^2/\text{NDF}: 11874.3/92$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1648.984 $\pm$ 0.429 χ^2 /NDF: 995480.5/19

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1693.175 $\pm$ 0.394 χ^2 /NDF: 1709872.4/24

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2 /NDF: 1174835.7/47

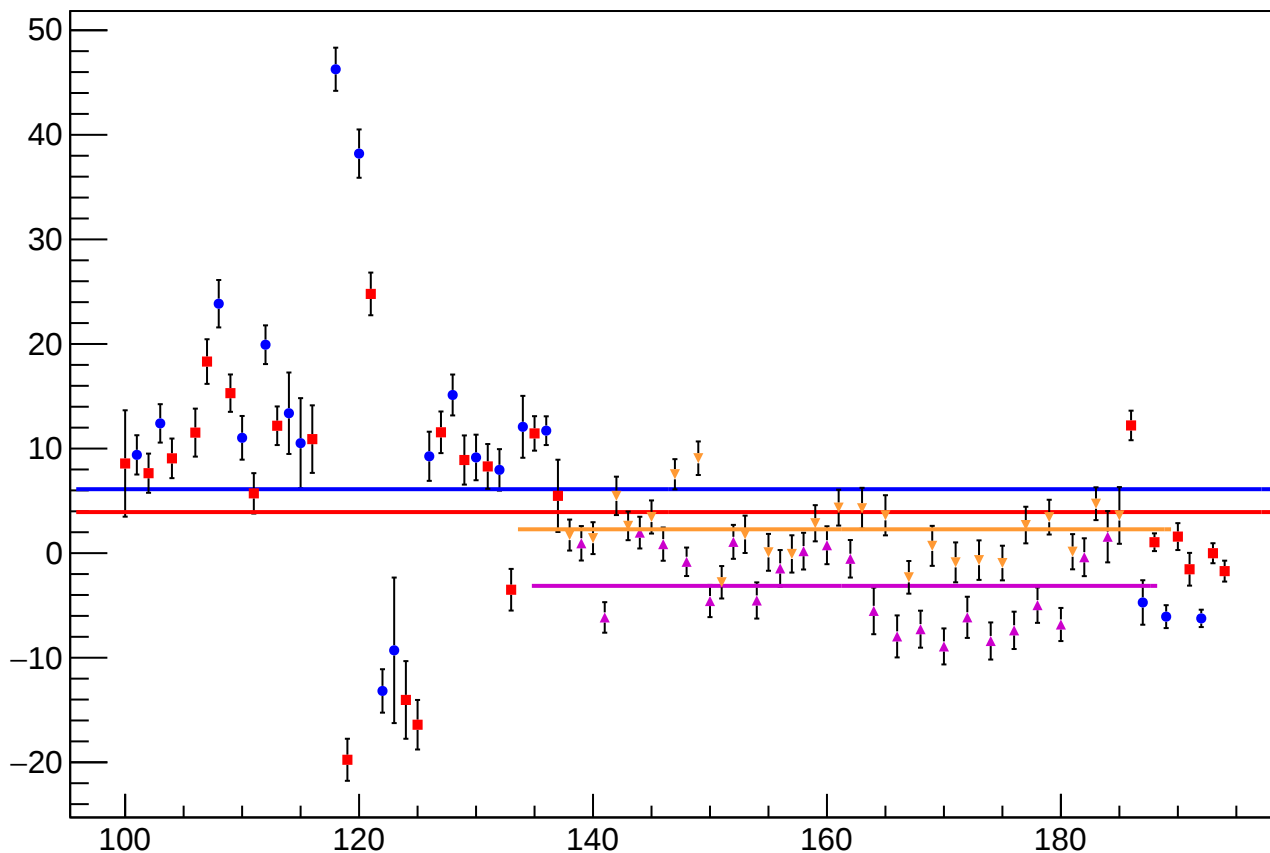
Right: 1672.973 $\pm$ 0.290 χ^2 /NDF: 2711113.0/44

In: 1661.309 $\pm$ 0.238 χ^2 /NDF: 1647665.6/42

Out: 1684.313 $\pm$ 0.228 χ^2 /NDF: 2233431.9/49

All: 1673.304 $\pm$ 0.165 χ^2 /NDF: 3885950.6/92

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 6.115 ± 0.403 χ^2/NDF : 1221.9/19

Left Out: 2.280 ± 0.338 χ^2/NDF : 75.6/24

Right Out: 3.927 ± 0.332 χ^2/NDF : 643.5/24

Left In: -3.129 ± 0.358 χ^2/NDF : 103.4/22

Left: -0.274 ± 0.246 χ^2/NDF : 299.7/47

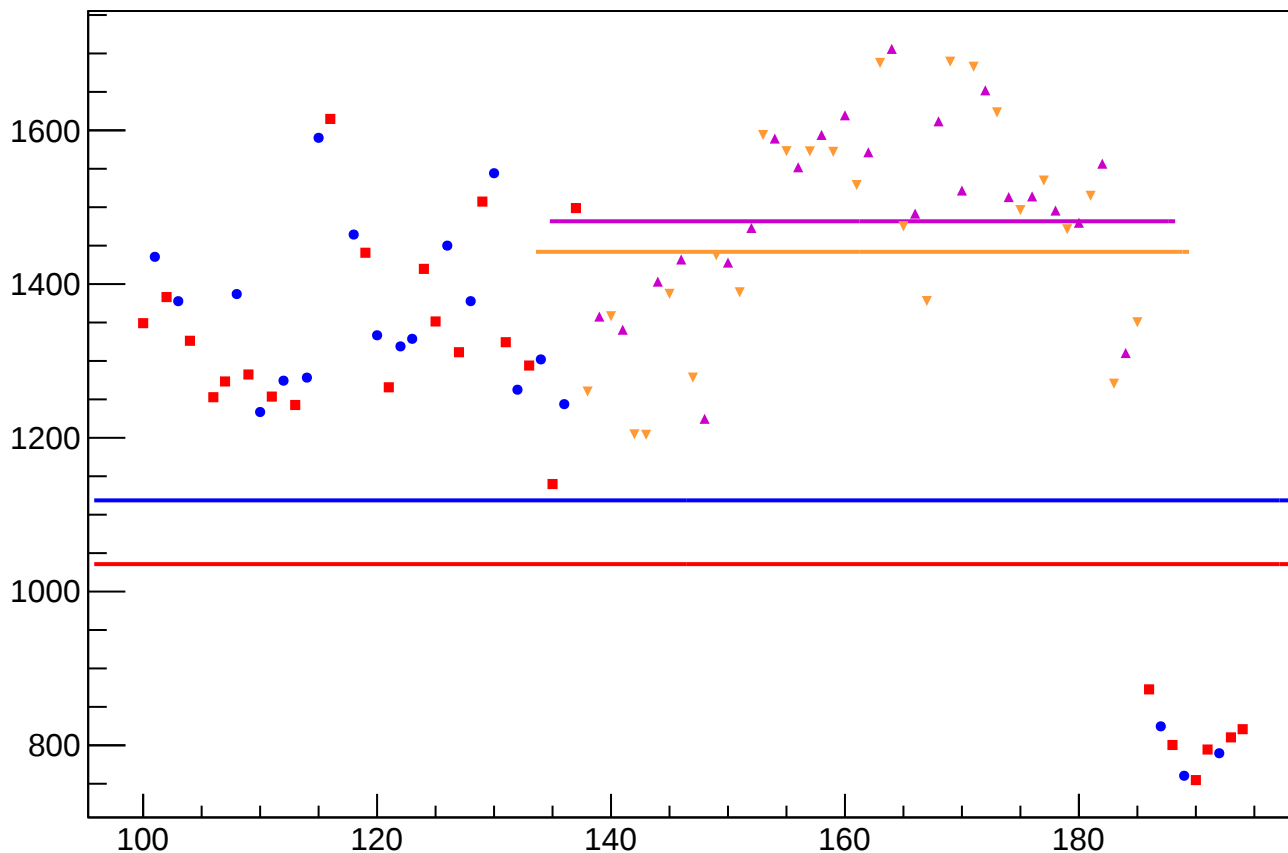
Right: 4.810 ± 0.256 χ^2/NDF : 1883.0/44

In: 0.939 ± 0.268 χ^2/NDF : 1619.2/42

Out: 3.119 ± 0.237 χ^2/NDF : 731.2/49

All: 2.161 ± 0.177 χ^2/NDF : 2387.6/92

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1118.623 ± 0.285 $\chi^2/\text{NDF}: 1017903.2/19$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1035.701 ± 0.235 $\chi^2/\text{NDF}: 1241986.5/24$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

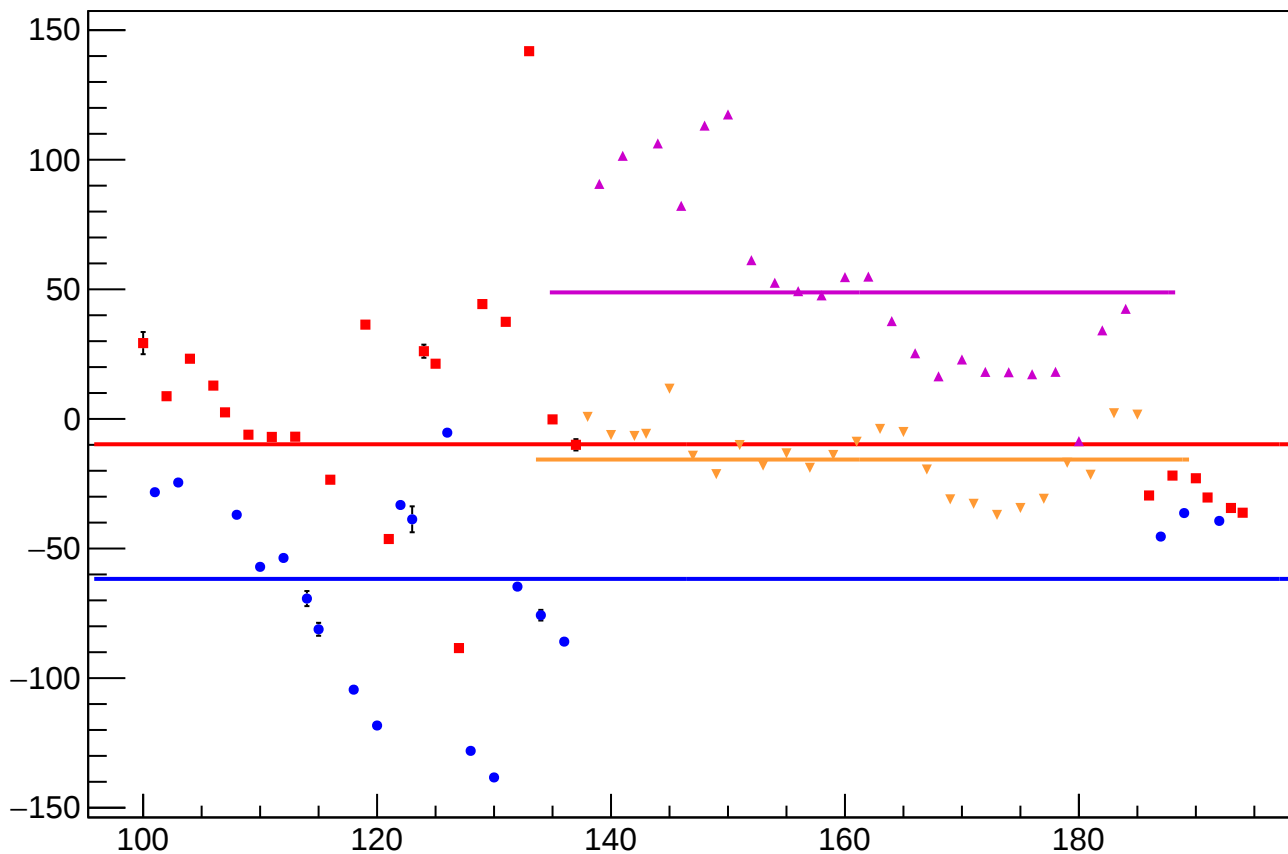
Right: 1069.188 ± 0.181 $\chi^2/\text{NDF}: 2310263.7/44$

In: 1321.925 ± 0.189 $\chi^2/\text{NDF}: 2133432.6/42$

Out: 1235.065 ± 0.168 $\chi^2/\text{NDF}: 3081853.6/49$

All: 1273.234 ± 0.125 $\chi^2/\text{NDF}: 5333388.7/92$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -61.717 ± 0.298 $\chi^2/\text{NDF}: 14427.2/19$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -9.776 ± 0.247 $\chi^2/\text{NDF}: 24959.5/24$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

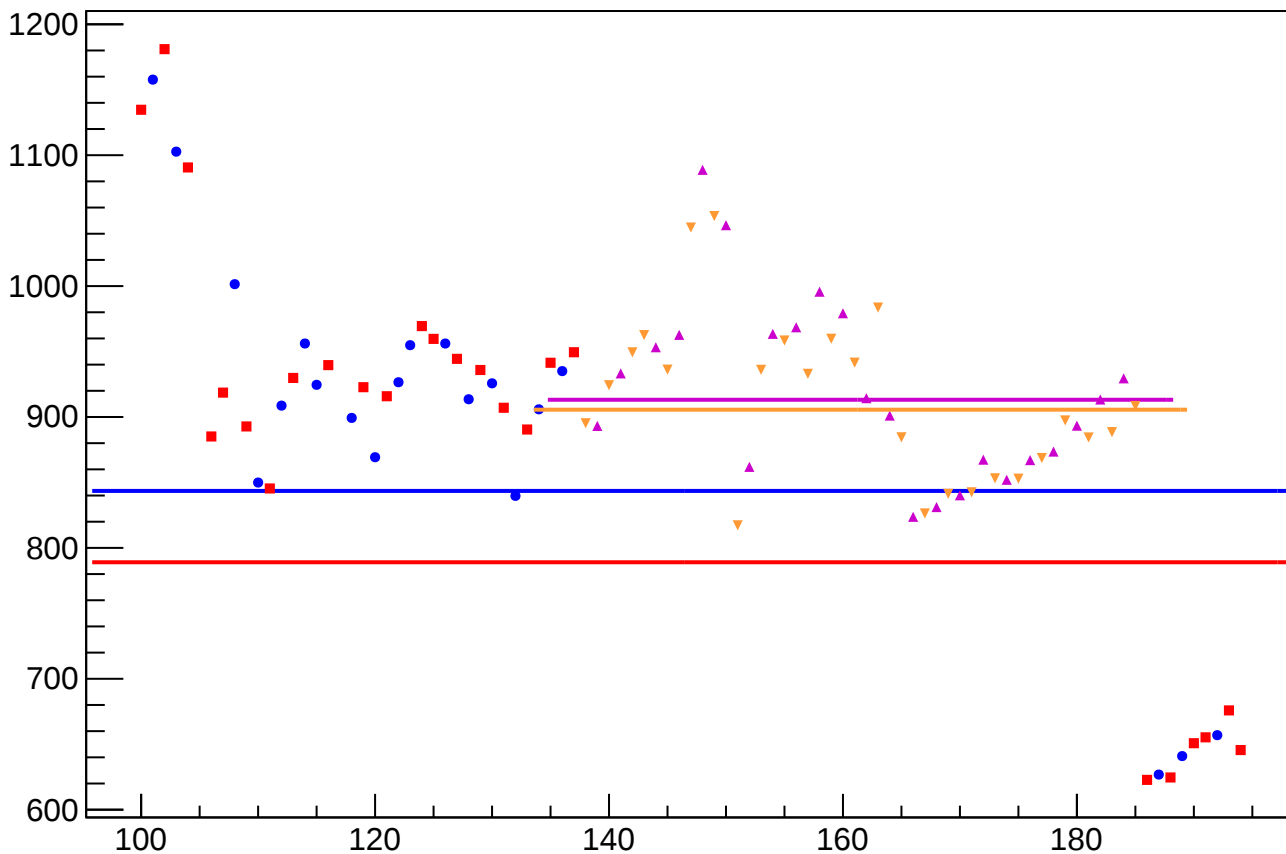
Right: -30.948 ± 0.190 $\chi^2/\text{NDF}: 57363.7/44$

In: 9.878 ± 0.177 $\chi^2/\text{NDF}: 128702.9/42$

Out: -13.178 ± 0.161 $\chi^2/\text{NDF}: 28805.1/49$

All: -2.754 ± 0.119 $\chi^2/\text{NDF}: 166808.8/92$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 843.523 ± 0.211 χ^2/NDF : 511276.9/19

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 789.024 ± 0.175 χ^2/NDF : 808642.5/24

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

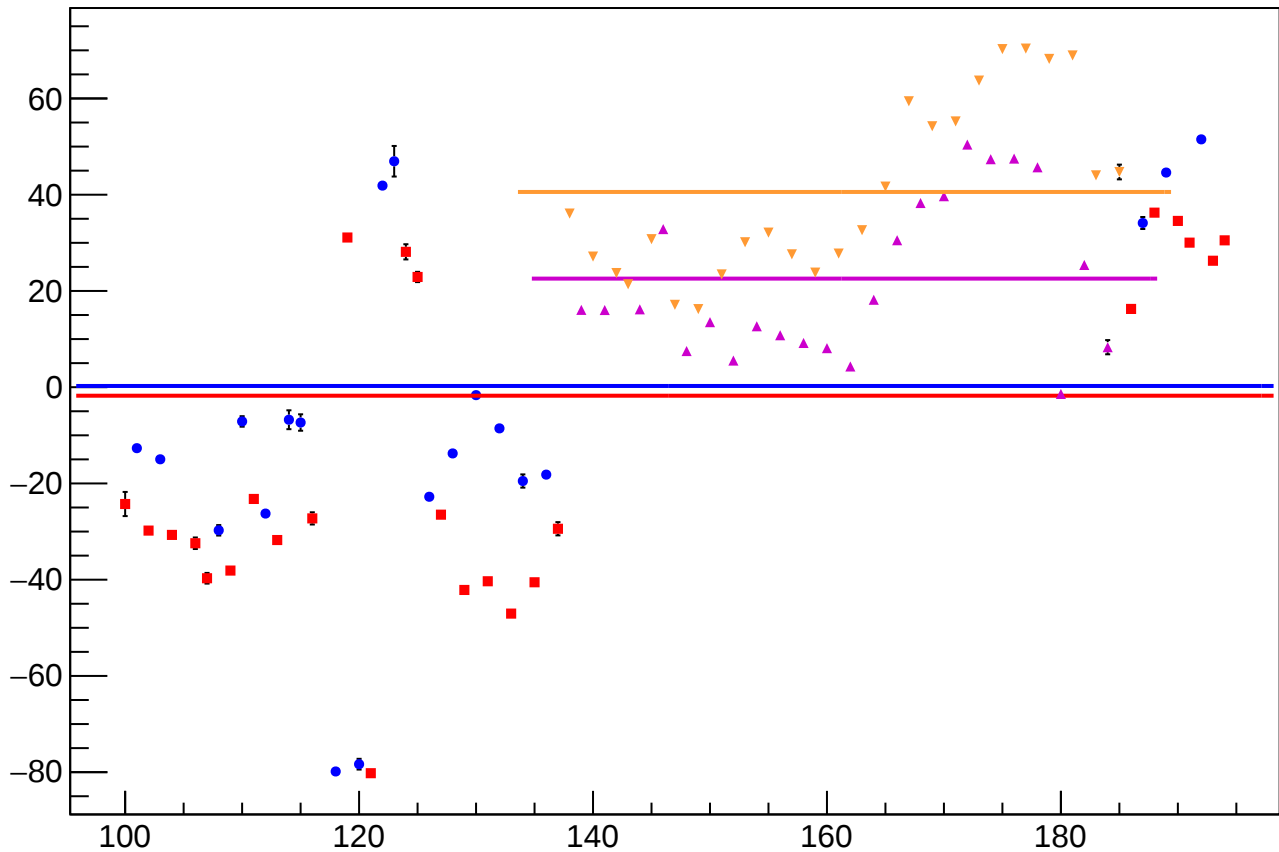
Right: 811.239 ± 0.135 χ^2/NDF : 1359503.5/44

In: 888.634 ± 0.125 χ^2/NDF : 756392.0/42

Out: 856.344 ± 0.114 χ^2/NDF : 1227251.8/49

All: 870.942 ± 0.084 χ^2/NDF : 2020127.2/92

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 0.255 $\pm$ 0.205 χ^2 /NDF: 34522.8/19

Left Out: 40.573 $\pm$ 0.168 χ^2 /NDF:12079.0/24

Right Out: -1.769 $\pm$ 0.174 χ^2 /NDF: 40872.2/24

Left In: 22.565 $\pm$ 0.175 χ^2 /NDF:8167.7/22

Left: 31.959 $\pm$ 0.121 χ^2 /NDF: 25752.7/47

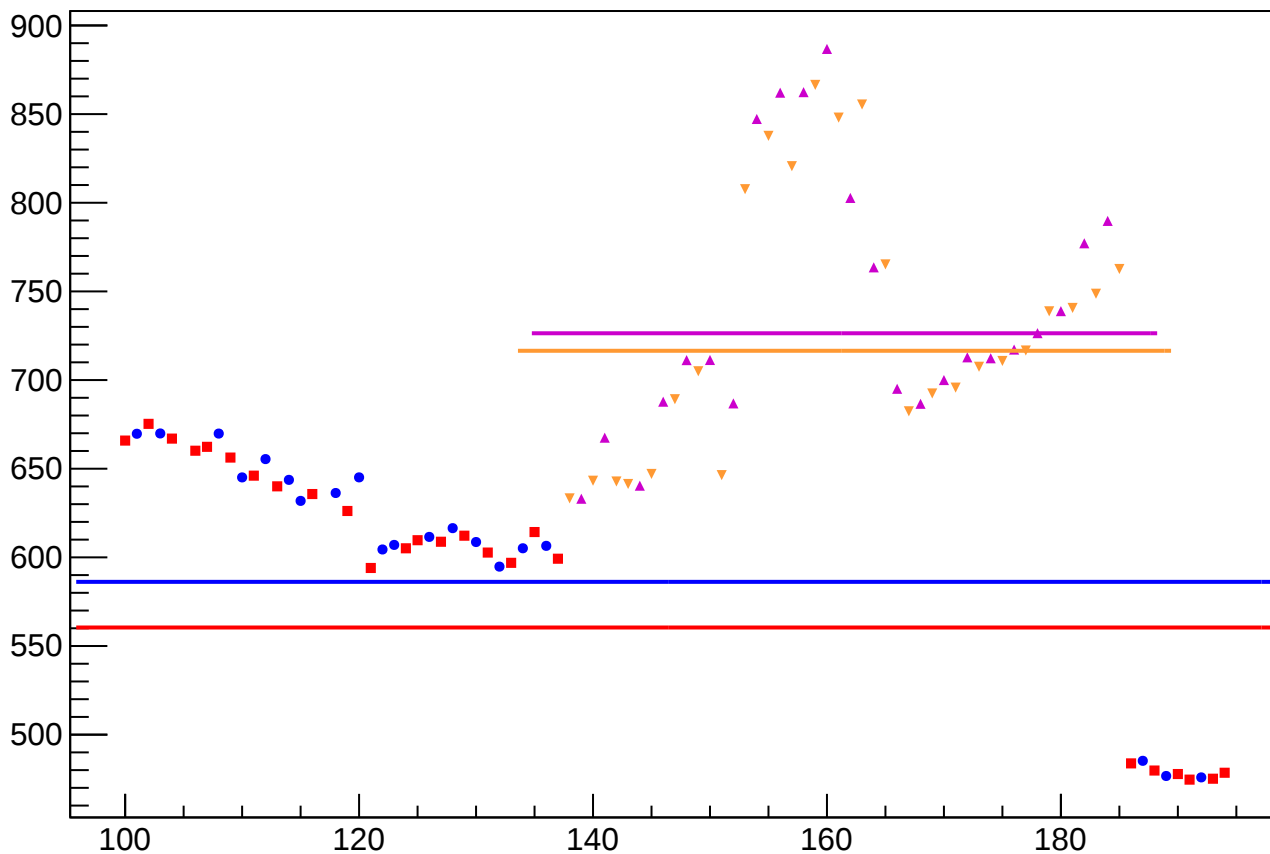
Right: -0.924 $\pm$ 0.133 χ^2 /NDF: 75451.7/44

In: 13.167 $\pm$ 0.133 χ^2 /NDF:49514.9/42

Out: 20.151 $\pm$ 0.121 χ^2 /NDF:83647.5/49

All: 17.004 $\pm$ 0.090 χ^2 /NDF: 134669.3/92

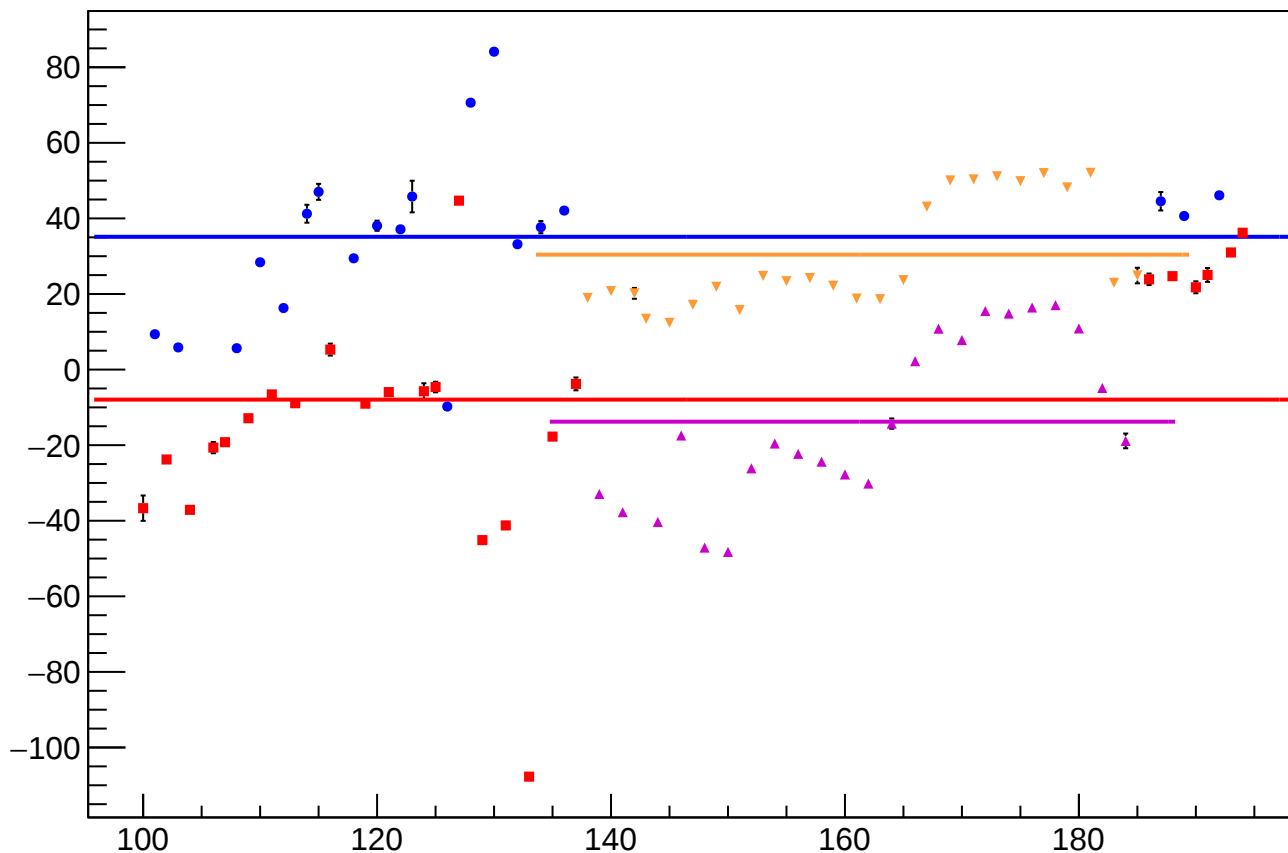
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 586.187 $\pm$ 0.145 χ^2/NDF : 249203.7/19
 Left Out: 716.515 $\pm$ 0.119 χ^2/NDF :342740.2/24
 Right Out: 560.440 $\pm$ 0.123 χ^2/NDF : 400287.8/24
 Left In: 726.390 $\pm$ 0.124 χ^2/NDF :289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2/NDF : 635840.6/47
 Right: 571.186 $\pm$ 0.094 χ^2/NDF : 667792.5/44
 In: 667.329 $\pm$ 0.094 χ^2/NDF :1078020.4/42
 Out: 641.238 $\pm$ 0.085 χ^2/NDF :1577169.1/49
 All: 652.994 $\pm$ 0.063 χ^2/NDF : 2697256.7/92

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 35.136+/-0.279 χ^2/NDF : 6607.5/19

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -7.949+/-0.253 χ^2/NDF : 18420.6/24

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

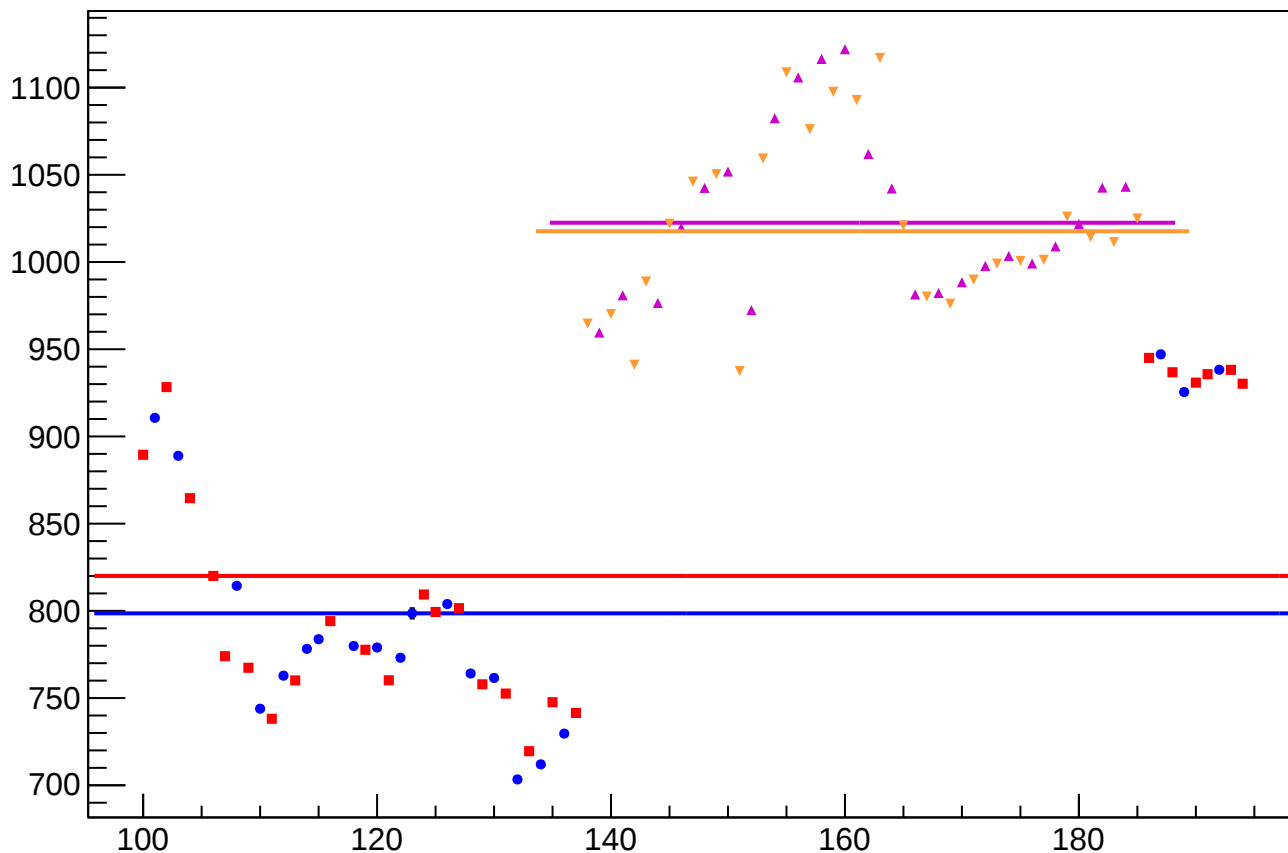
Right: 11.509+/-0.188 χ^2/NDF : 38100.1/44

In: 7.590+/-0.184 χ^2/NDF : 31892.8/42

Out: 12.467+/-0.173 χ^2/NDF : 34439.3/49

All: 10.182+/-0.126 χ^2/NDF : 66703.7/92

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 798.570 ± 0.197 χ^2/NDF : 143657.9/19

Left Out: 1017.653 ± 0.168 χ^2/NDF : 83612.5/24

Right Out: 820.022 ± 0.179 χ^2/NDF : 198728.4/24

Left In: 1022.511 ± 0.174 χ^2/NDF : 69635.5/22

Left: 1019.997 ± 0.121 χ^2/NDF : 153652.2/47

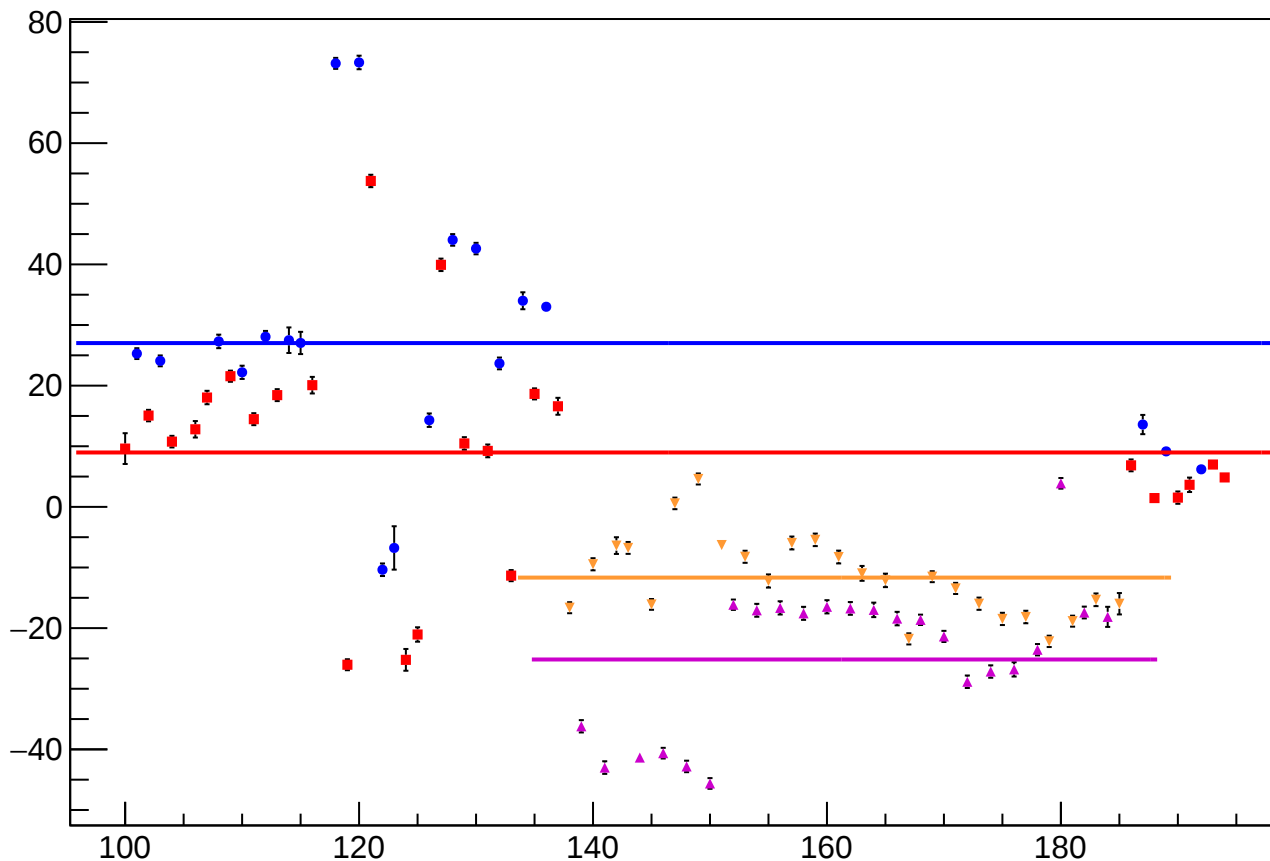
Right: 810.334 ± 0.133 χ^2/NDF : 348867.2/44

In: 924.661 ± 0.130 χ^2/NDF : 938498.0/42

Out: 925.215 ± 0.122 χ^2/NDF : 930643.3/49

All: 924.956 ± 0.089 χ^2/NDF : 1869150.8/92

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 27.021 ± 0.223 $\chi^2/\text{NDF}: 8230.6/19$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 8.974 ± 0.196 $\chi^2/\text{NDF}: 6700.4/24$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

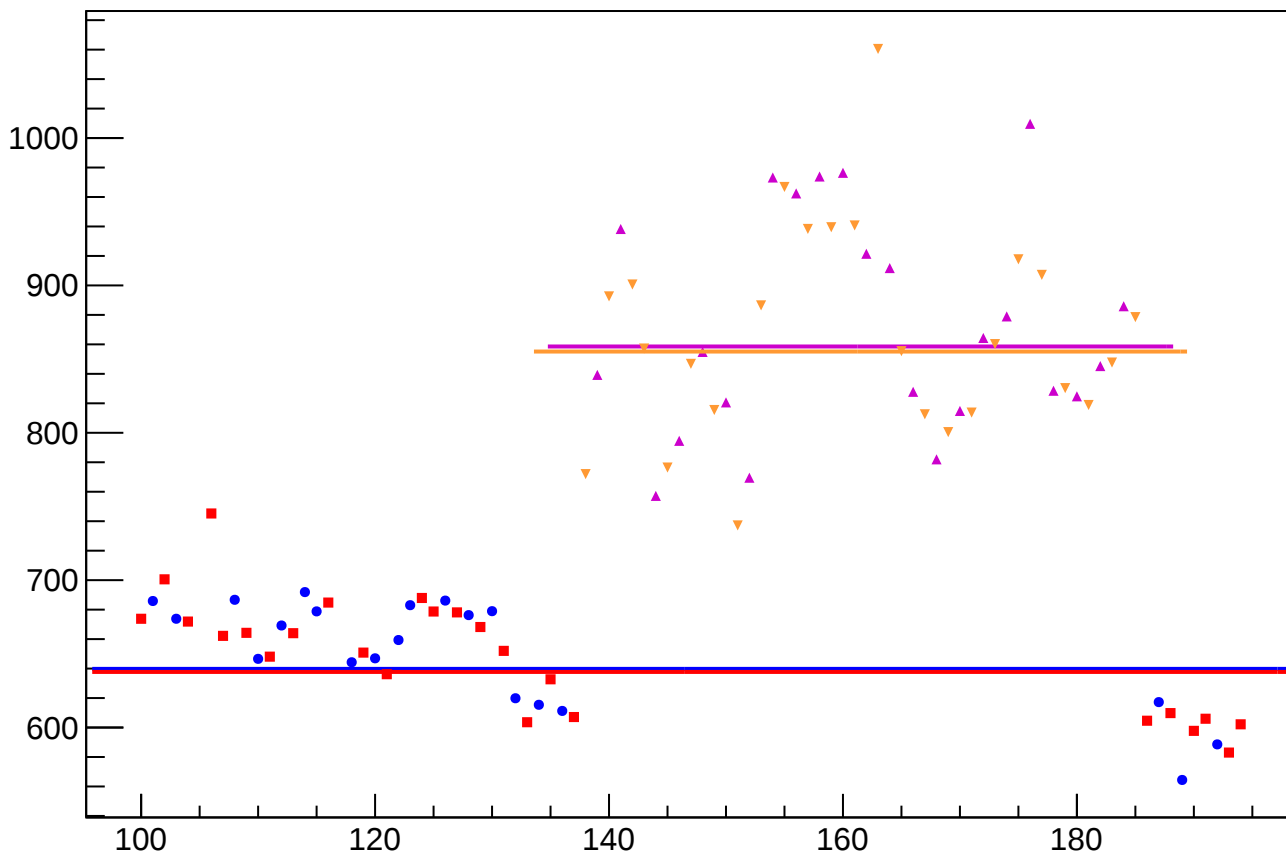
Right: 16.853 ± 0.147 $\chi^2/\text{NDF}: 18615.2/44$

In: -0.989 ± 0.152 $\chi^2/\text{NDF}: 41331.0/42$

Out: -1.145 ± 0.140 $\chi^2/\text{NDF}: 13259.7/49$

All: -1.073 ± 0.103 $\chi^2/\text{NDF}: 54591.2/92$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 639.797 $\pm$ 0.158 χ^2 /NDF: 62828.3/19

Left Out: 855.131 $\pm$ 0.142 χ^2 /NDF:233746.7/24

Right Out: 637.726 $\pm$ 0.139 χ^2 /NDF: 73362.5/24

Left In: 858.563 $\pm$ 0.147 χ^2 /NDF:239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2 /NDF: 473049.9/47

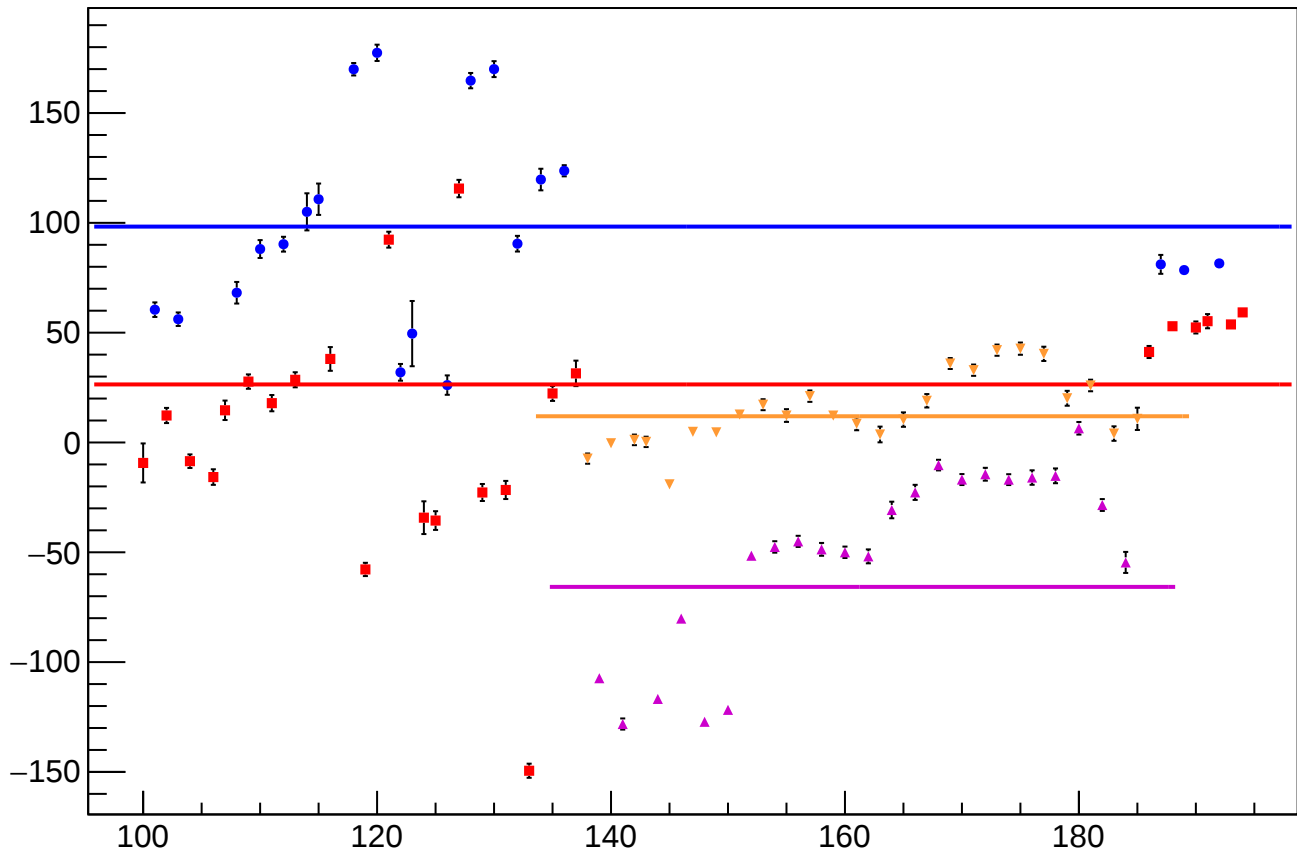
Right: 638.630 $\pm$ 0.104 χ^2 /NDF: 136287.9/44

In: 757.196 $\pm$ 0.107 χ^2 /NDF:1333183.9/42

Out: 744.325 $\pm$ 0.099 χ^2 /NDF:1508192.7/49

All: 750.247 $\pm$ 0.073 χ^2 /NDF: 2849127.0/92

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 98.291 $\pm$ 0.745 χ^2/NDF : 3122.7/19

Left Out: 11.938 $\pm$ 0.505 χ^2/NDF : 976.6/24

Right Out: 26.426 $\pm$ 0.622 χ^2/NDF : 6498.3/24

Left In: -65.752 $\pm$ 0.518 χ^2/NDF : 7335.8/22

Left: -25.968 $\pm$ 0.362 χ^2/NDF : 19845.5/47

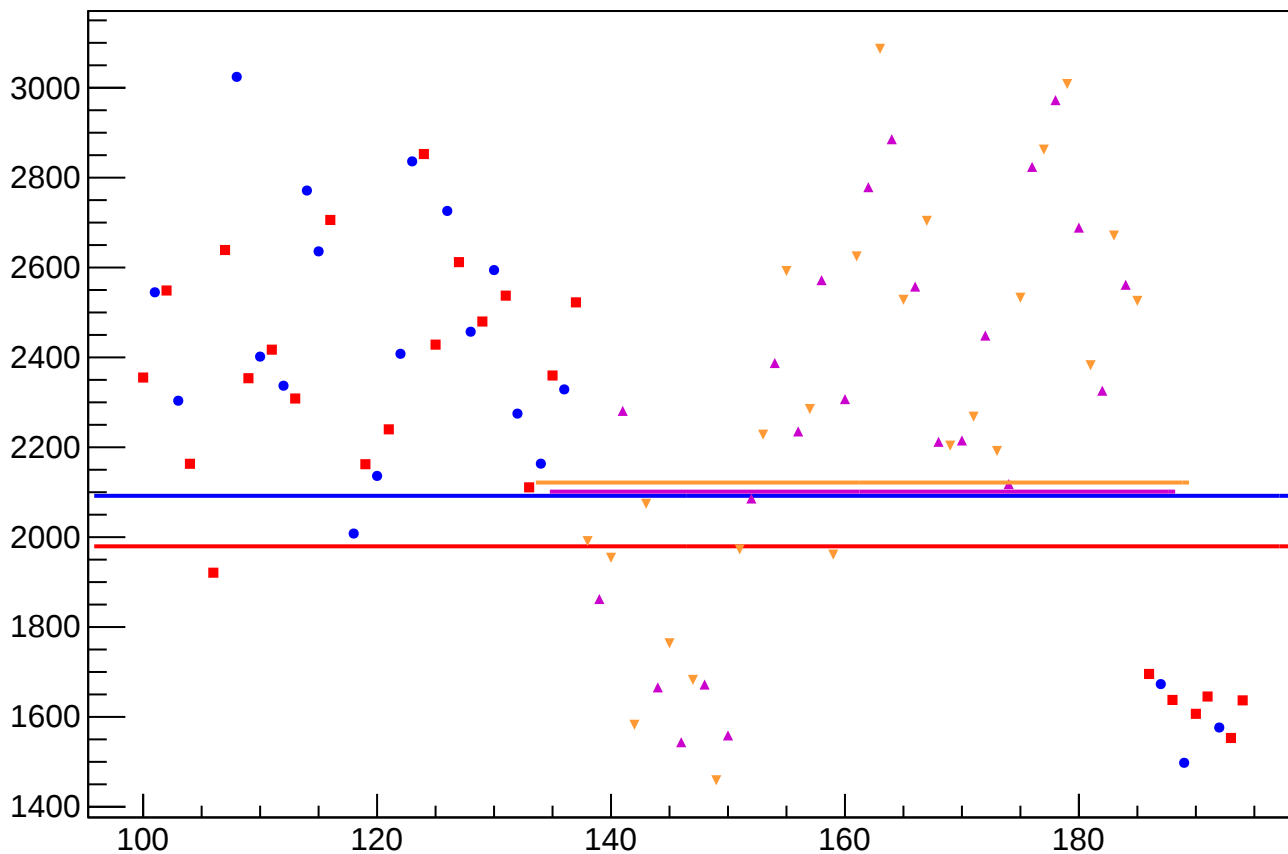
Right: 55.929 $\pm$ 0.477 χ^2/NDF : 15103.8/44

In: -12.350 $\pm$ 0.425 χ^2/NDF : 43146.4/42

Out: 17.700 $\pm$ 0.392 χ^2/NDF : 7801.9/49

All: 3.886 $\pm$ 0.288 χ^2/NDF : 53647.5/92

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2091.997 $\pm$ 0.527 χ^2 /NDF: 670980.2/19

Left Out: 2121.567 $\pm$ 0.357 χ^2 /NDF:1387847.6/24

Right Out: 1979.603 $\pm$ 0.440 χ^2 /NDF: 792138.0/24

Left In: 2101.325 $\pm$ 0.366 χ^2 /NDF:1360518.3/22

Left: 2111.691 $\pm$ 0.256 χ^2 /NDF: 2749931.8/47

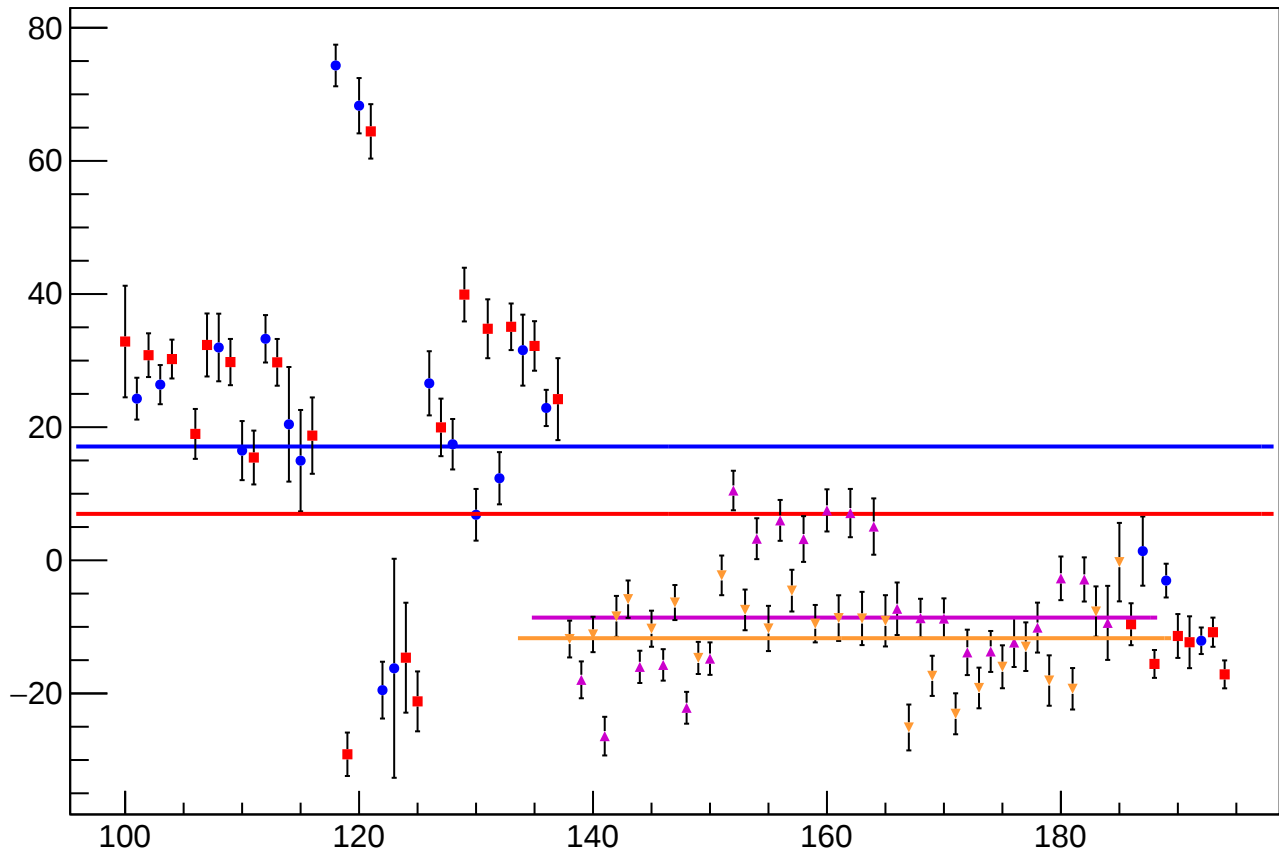
Right: 2025.745 $\pm$ 0.338 χ^2 /NDF: 1489939.9/44

In: 2098.288 $\pm$ 0.301 χ^2 /NDF:2031709.9/42

Out: 2065.107 $\pm$ 0.277 χ^2 /NDF:2242765.1/49

All: 2080.361 $\pm$ 0.204 χ^2 /NDF: 4281056.9/92

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 17.096 $\pm$ 0.818 χ^2/NDF : 920.0/19

Left Out: -11.700 $\pm$ 0.625 χ^2/NDF : 85.0/24

Right Out: 6.975 $\pm$ 0.693 χ^2/NDF : 1255.3/24

Left In: -8.606 $\pm$ 0.642 χ^2/NDF : 264.2/22

Left: -10.193 $\pm$ 0.448 χ^2/NDF : 361.1/47

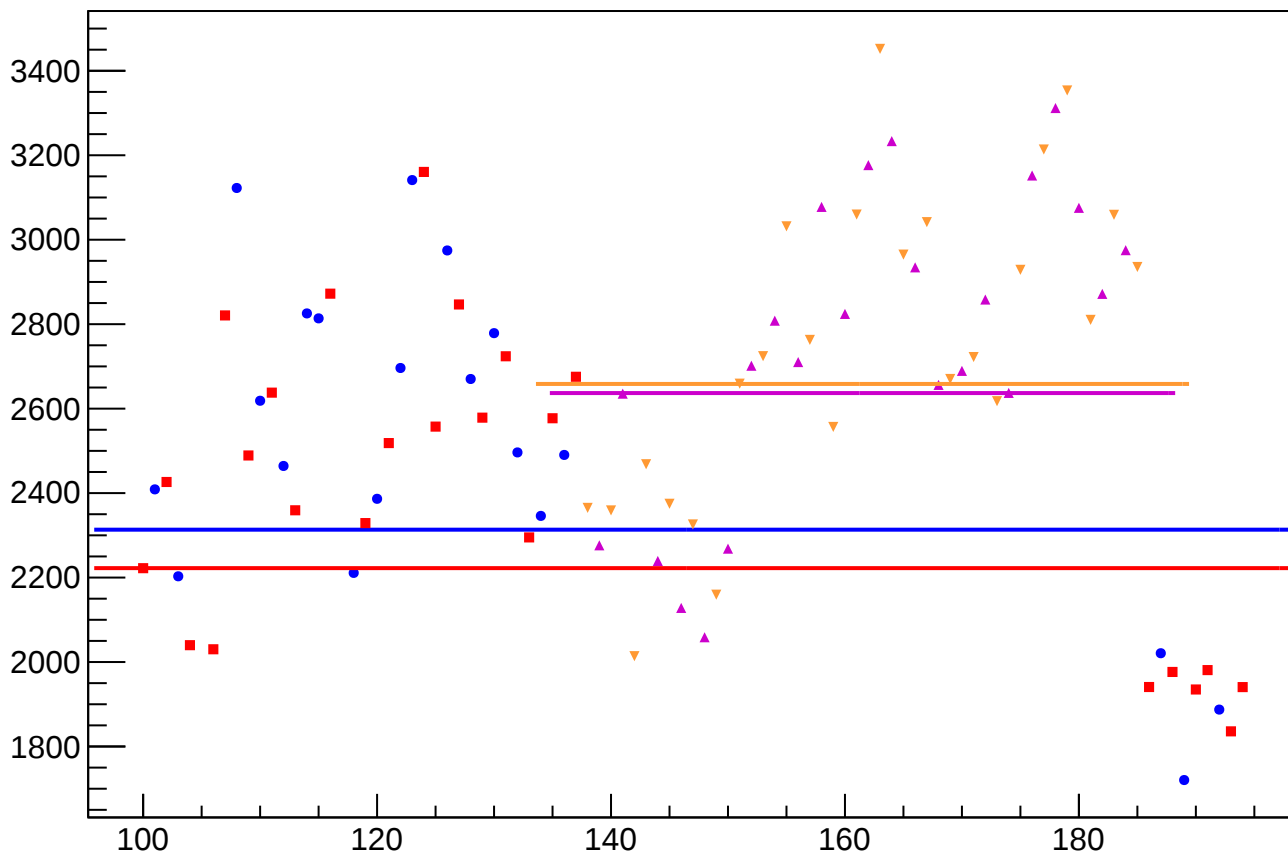
Right: 11.201 $\pm$ 0.529 χ^2/NDF : 2264.4/44

In: 1.184 $\pm$ 0.505 χ^2/NDF : 1794.8/42

Out: -3.316 $\pm$ 0.464 χ^2/NDF : 1740.6/49

All: -1.255 $\pm$ 0.342 χ^2/NDF : 3578.4/92

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2313.405 ± 0.579 χ^2/NDF : 412053.6/19

Left Out: 2658.486 ± 0.442 χ^2/NDF : 618133.8/24

Right Out: 2222.345 ± 0.490 χ^2/NDF : 441660.3/24

Left In: 2636.885 ± 0.454 χ^2/NDF : 652894.5/22

Left: 2647.967 ± 0.317 χ^2/NDF : 1272190.1/47

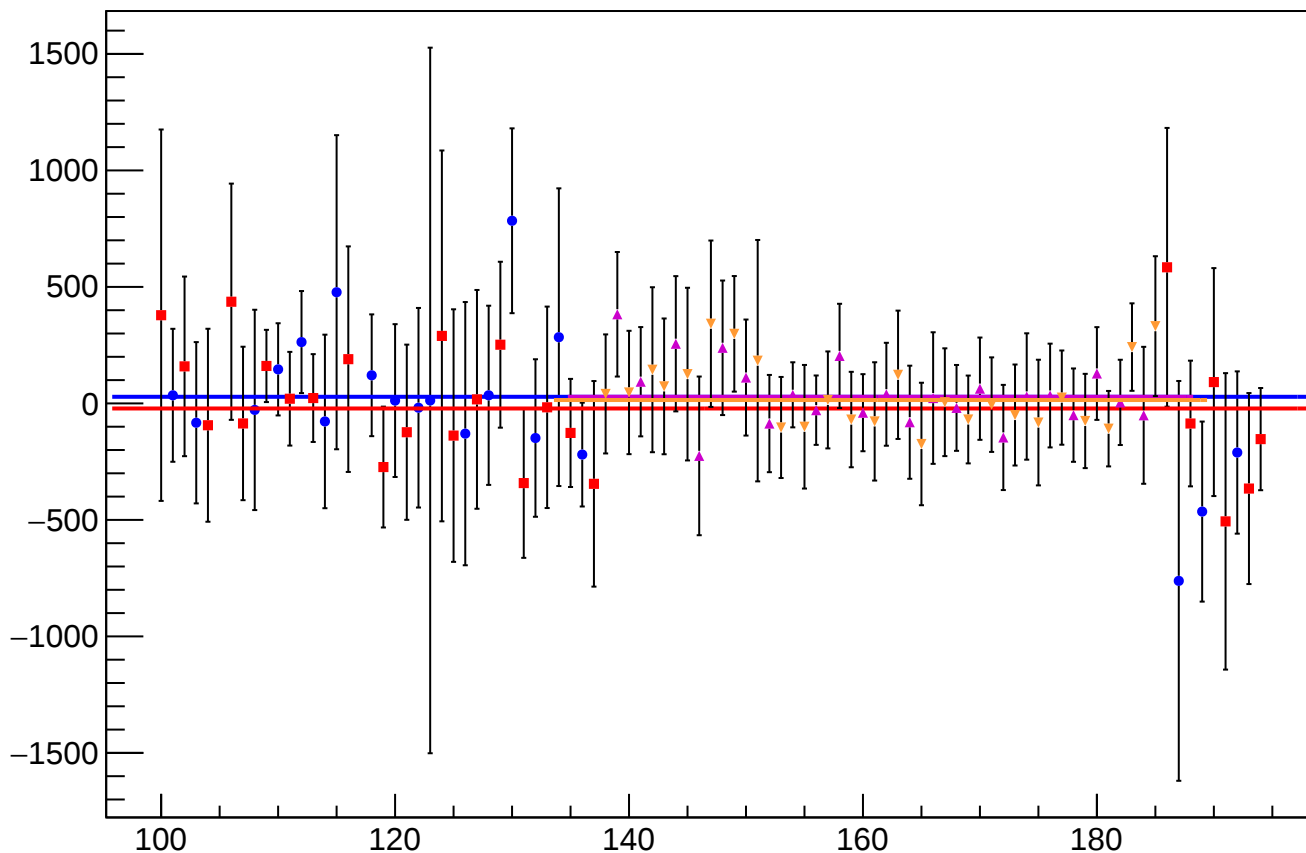
Right: 2260.368 ± 0.374 χ^2/NDF : 868135.8/44

In: 2513.671 ± 0.357 χ^2/NDF : 1258398.2/42

Out: 2462.684 ± 0.328 χ^2/NDF : 1496408.3/49

All: 2486.035 ± 0.242 χ^2/NDF : 2765852.7/92

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 28.395 $\pm$ 75.472 χ^2 /NDF: 10.6/19

Left Out: 14.520 $\pm$ 47.528 χ^2 /NDF:7.8/24

Right Out: -21.792 $\pm$ 62.738 χ^2 /NDF: 9.4/24

Left In: 28.310 $\pm$ 44.638 χ^2 /NDF:6.3/22

Left: 21.847 $\pm$ 32.538 χ^2 /NDF: 14.1/47

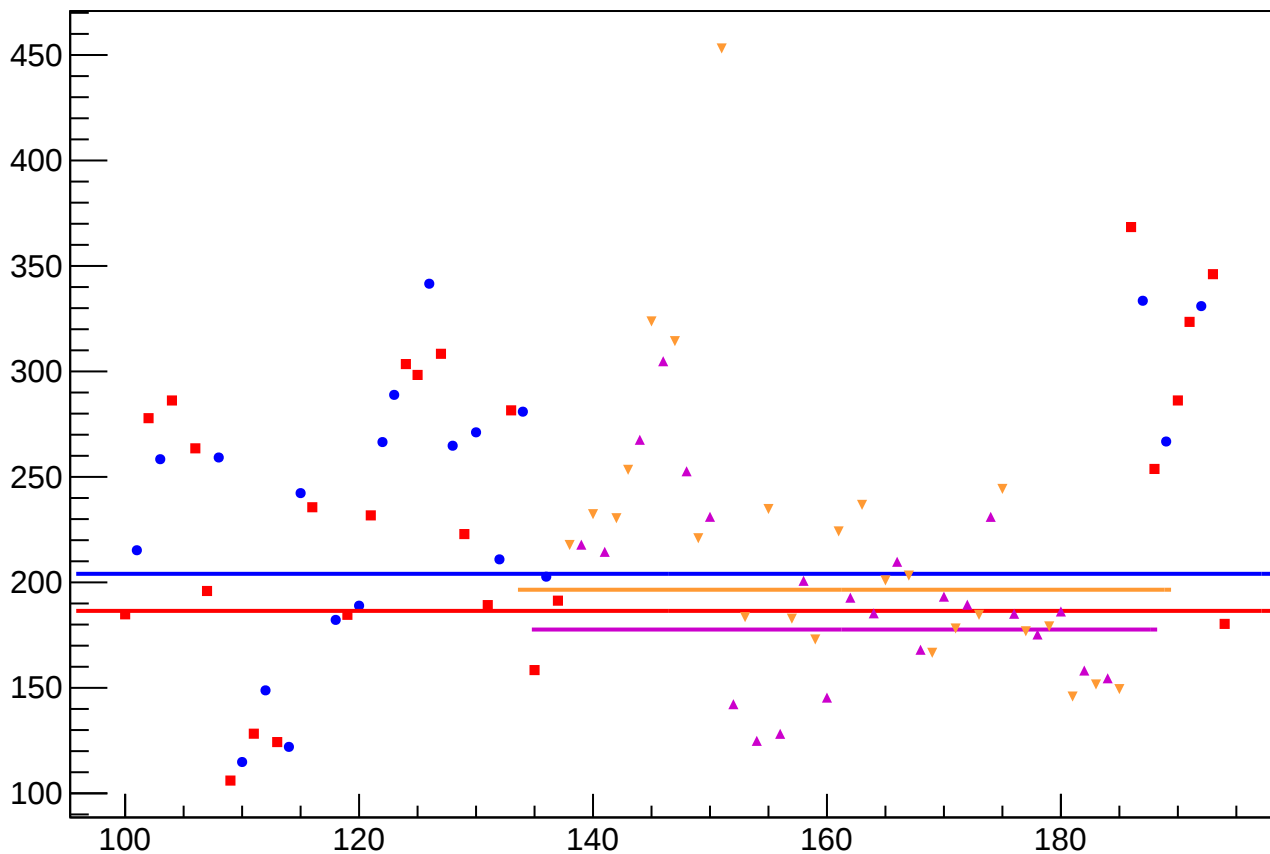
Right: -1.284 $\pm$ 48.245 χ^2 /NDF: 20.2/44

In: 28.332 $\pm$ 38.421 χ^2 /NDF:16.9/42

Out: 1.279 $\pm$ 37.885 χ^2 /NDF:17.4/49

All: 14.615 $\pm$ 26.976 χ^2 /NDF: 34.5/92

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.061+/-0.053 χ^2/NDF : 1408773.4/19

Left Out: 196.514+/-0.034 χ^2/NDF : 1789504.4/24

Right Out: 186.488+/-0.044 χ^2/NDF : 2450445.8/24

Left In: 177.643+/-0.032 χ^2/NDF : 1630664.5/22

Left: 186.488+/-0.023 χ^2/NDF : 3587689.7/47

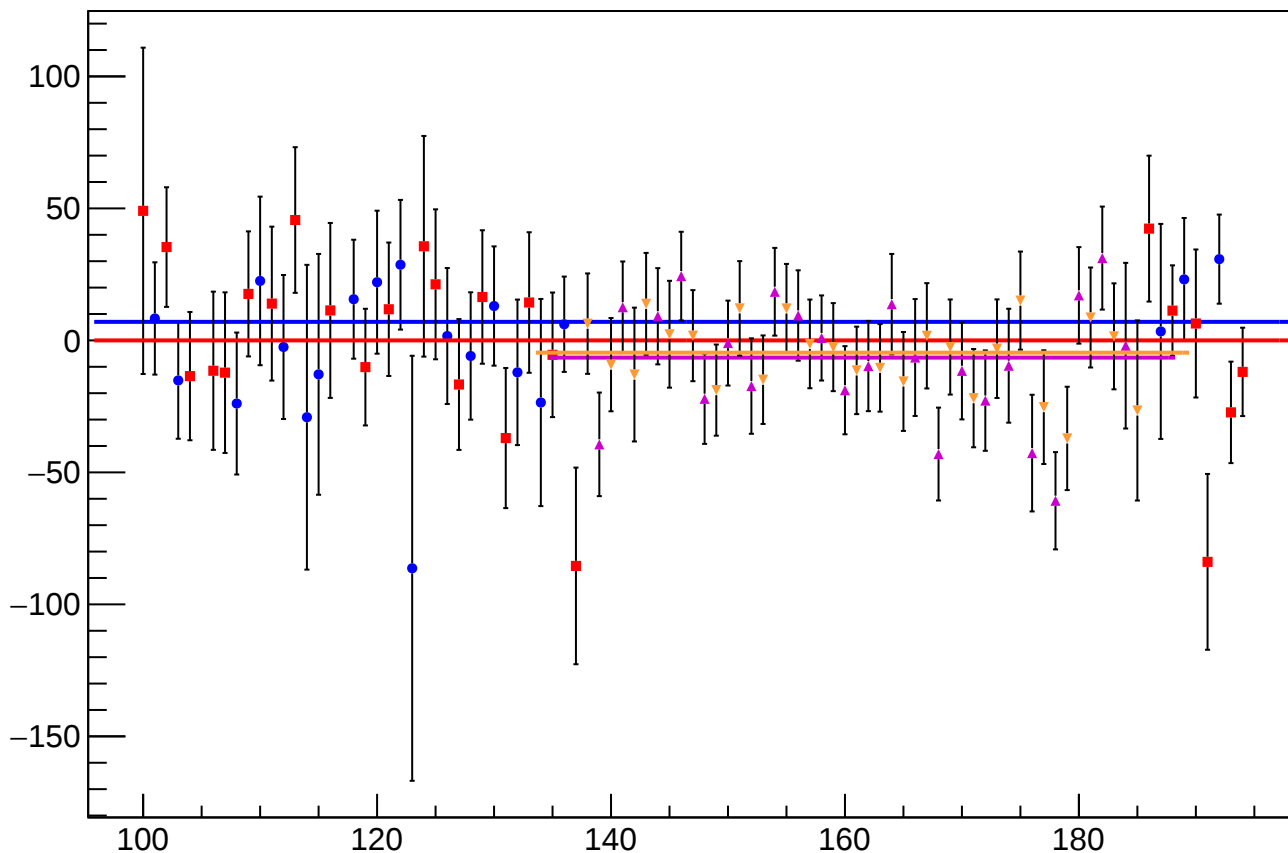
Right: 193.669+/-0.034 χ^2/NDF : 3923338.9/44

In: 184.490+/-0.027 χ^2/NDF : 3220976.0/42

Out: 192.858+/-0.027 χ^2/NDF : 4272403.2/49

All: 188.733+/-0.019 χ^2/NDF : 7541487.7/92

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.025 ± 5.767 $\chi^2/\text{NDF}: 9.8/19$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -0.003 ± 5.103 $\chi^2/\text{NDF}: 29.2/24$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

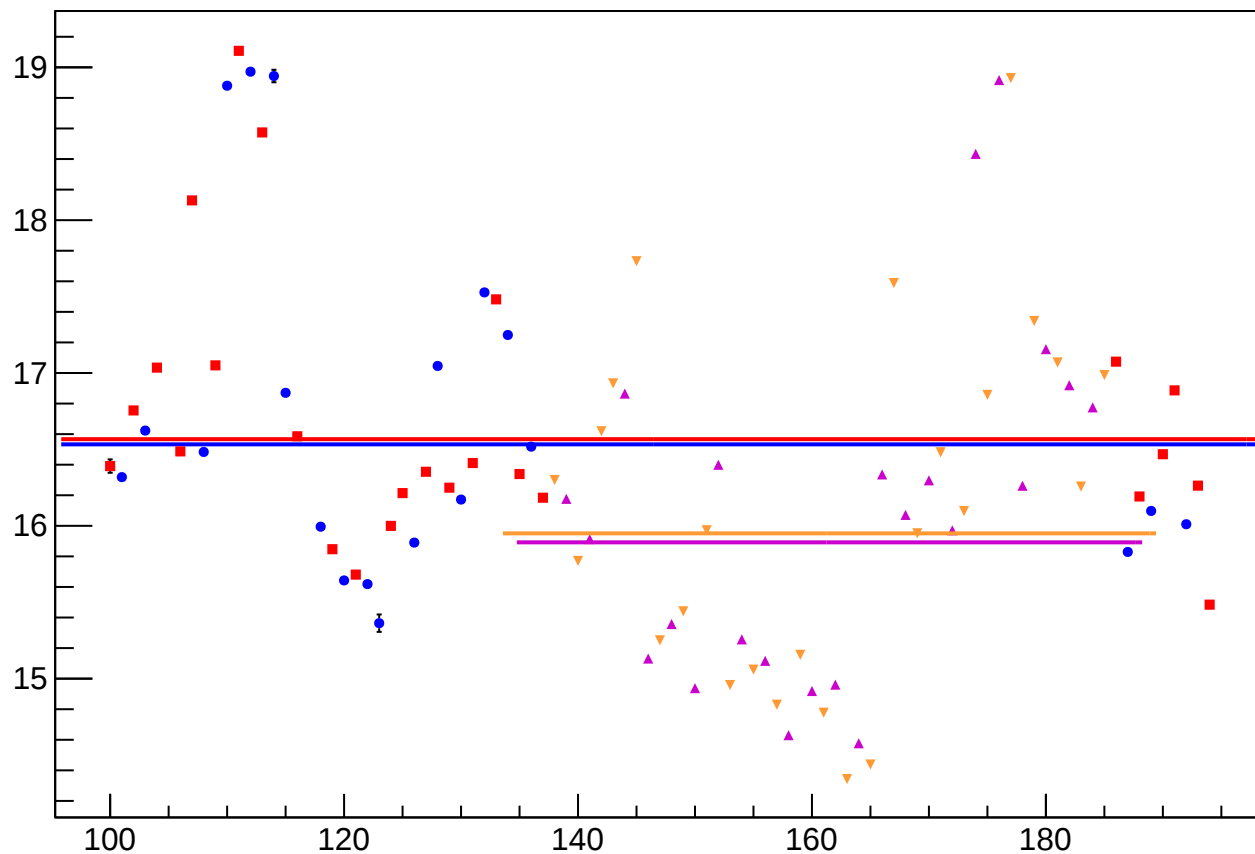
Right: 3.084 ± 3.822 $\chi^2/\text{NDF}: 39.8/44$

In: -2.382 ± 3.189 $\chi^2/\text{NDF}: 50.0/42$

Out: -3.030 ± 3.010 $\chi^2/\text{NDF}: 41.7/49$

All: -2.725 ± 2.189 $\chi^2/\text{NDF}: 91.8/92$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.533+/-0.004 χ^2/NDF : 46266.5/19

Left Out: 15.951+/-0.003 χ^2/NDF :173458.5/24

Right Out: 16.567+/-0.004 χ^2/NDF : 52051.5/24

Left In: 15.892+/-0.003 χ^2/NDF :147093.3/22

Left: 15.922+/-0.002 χ^2/NDF : 320794.5/47

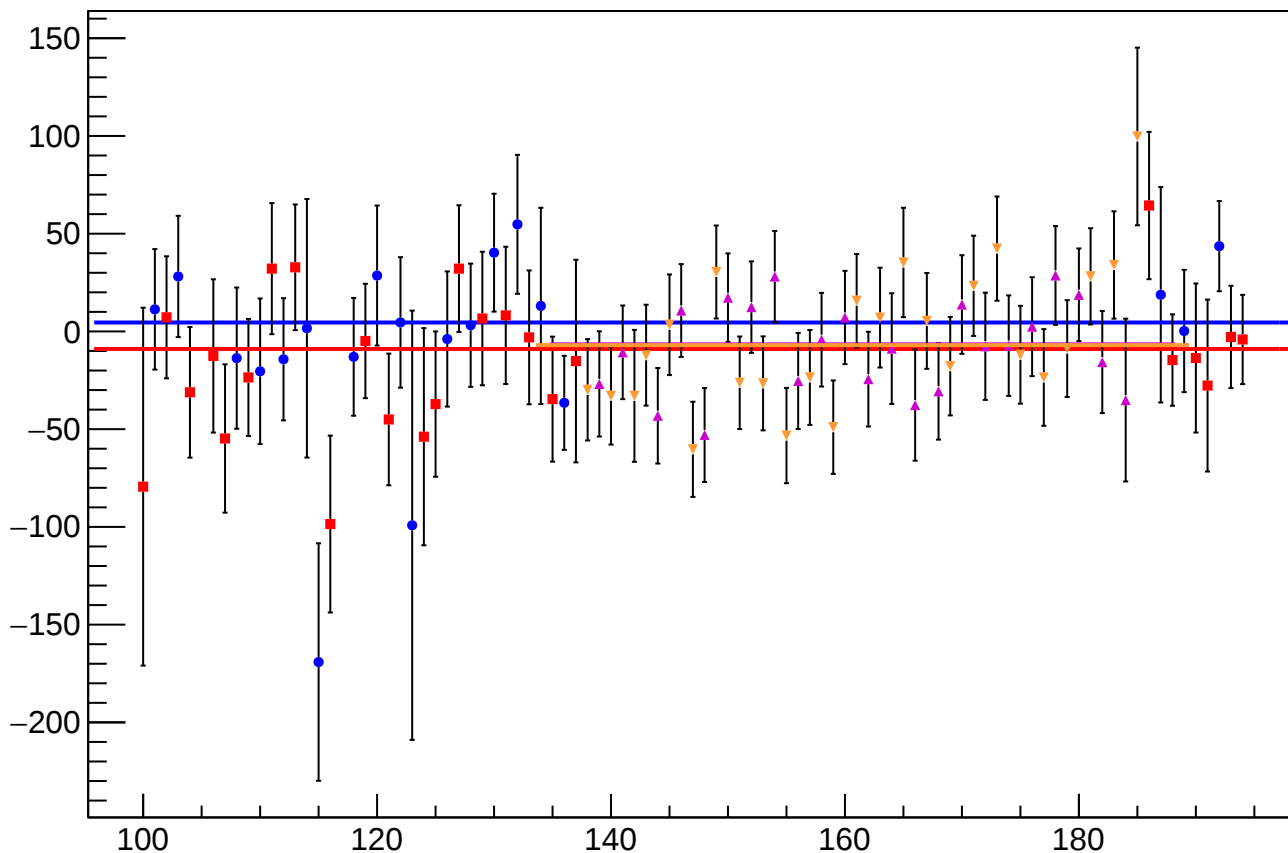
Right: 16.552+/-0.003 χ^2/NDF : 98356.7/44

In: 16.088+/-0.002 χ^2/NDF :210529.1/42

Out: 16.165+/-0.002 χ^2/NDF :244528.2/49

All: 16.129+/-0.002 χ^2/NDF : 455676.5/92

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.567 ± 7.657 $\chi^2/\text{NDF}: 20.9/19$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -8.970 ± 6.759 $\chi^2/\text{NDF}: 19.4/24$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

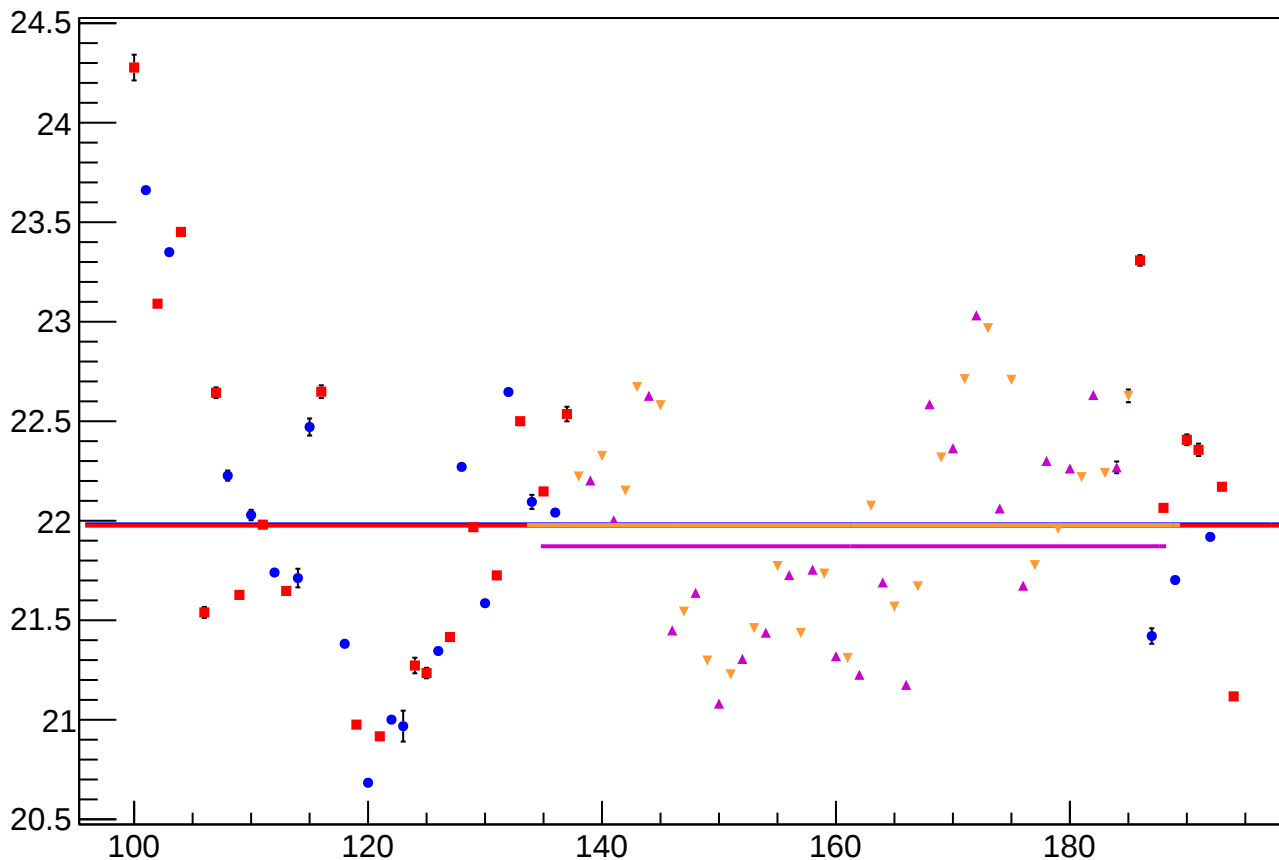
Right: -3.041 ± 5.067 $\chi^2/\text{NDF}: 42.1/44$

In: -3.036 ± 4.331 $\chi^2/\text{NDF}: 41.5/42$

Out: -7.729 ± 4.082 $\chi^2/\text{NDF}: 56.9/49$

All: -5.521 ± 2.970 $\chi^2/\text{NDF}: 99.0/92$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.982 $\pm$ 0.005 χ^2 /NDF: 17813.3/19

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 21.975 $\pm$ 0.005 χ^2 /NDF: 22264.8/24

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

Left: 21.926 $\pm$ 0.003 χ^2 /NDF: 40377.5/47

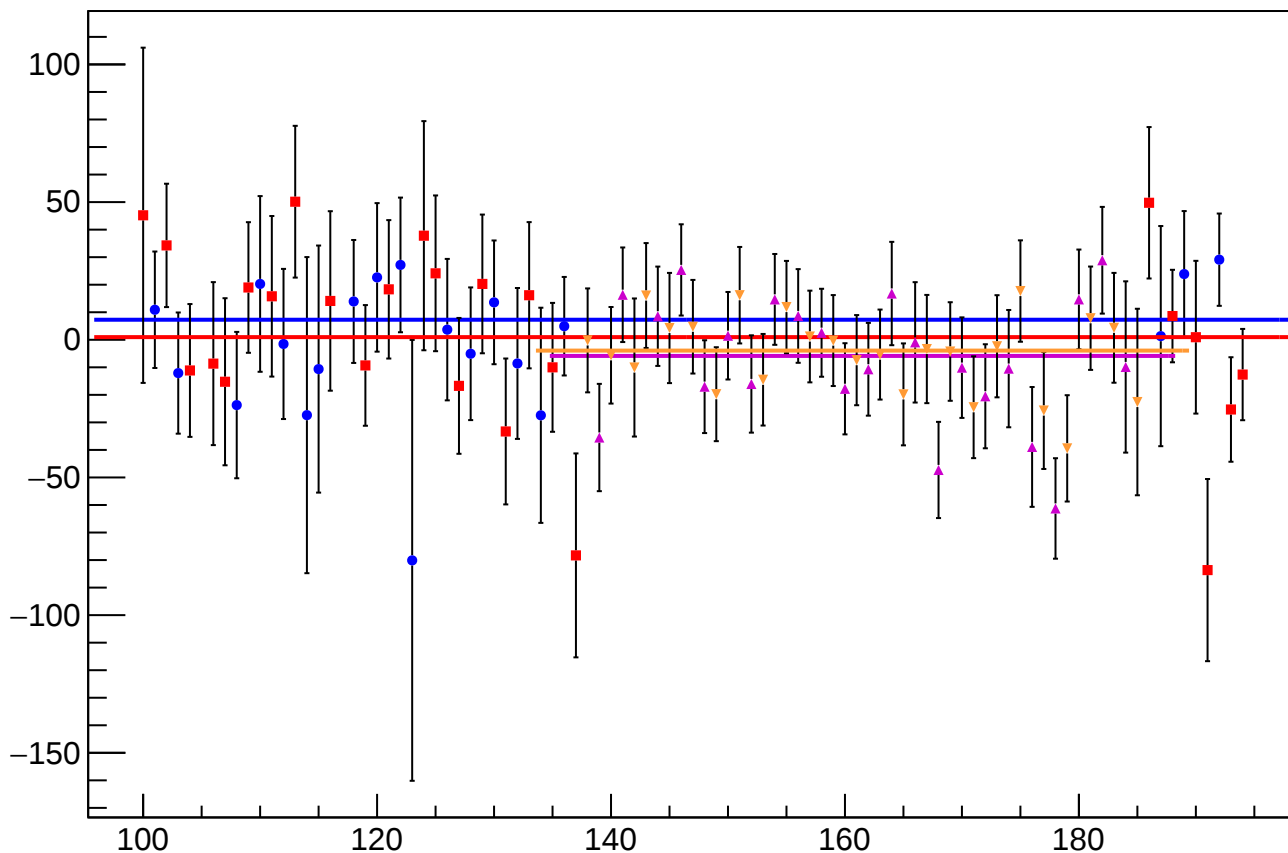
Right: 21.978 $\pm$ 0.004 χ^2 /NDF: 40078.9/44

In: 21.907 $\pm$ 0.003 χ^2 /NDF:38619.4/42

Out: 21.977 $\pm$ 0.003 χ^2 /NDF:41695.3/49

All: 21.944 $\pm$ 0.002 χ^2 /NDF: 80593.7/92

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.280 ± 5.728 $\chi^2/\text{NDF}: 9.0/19$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: 0.963 ± 5.062 $\chi^2/\text{NDF}: 30.1/24$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

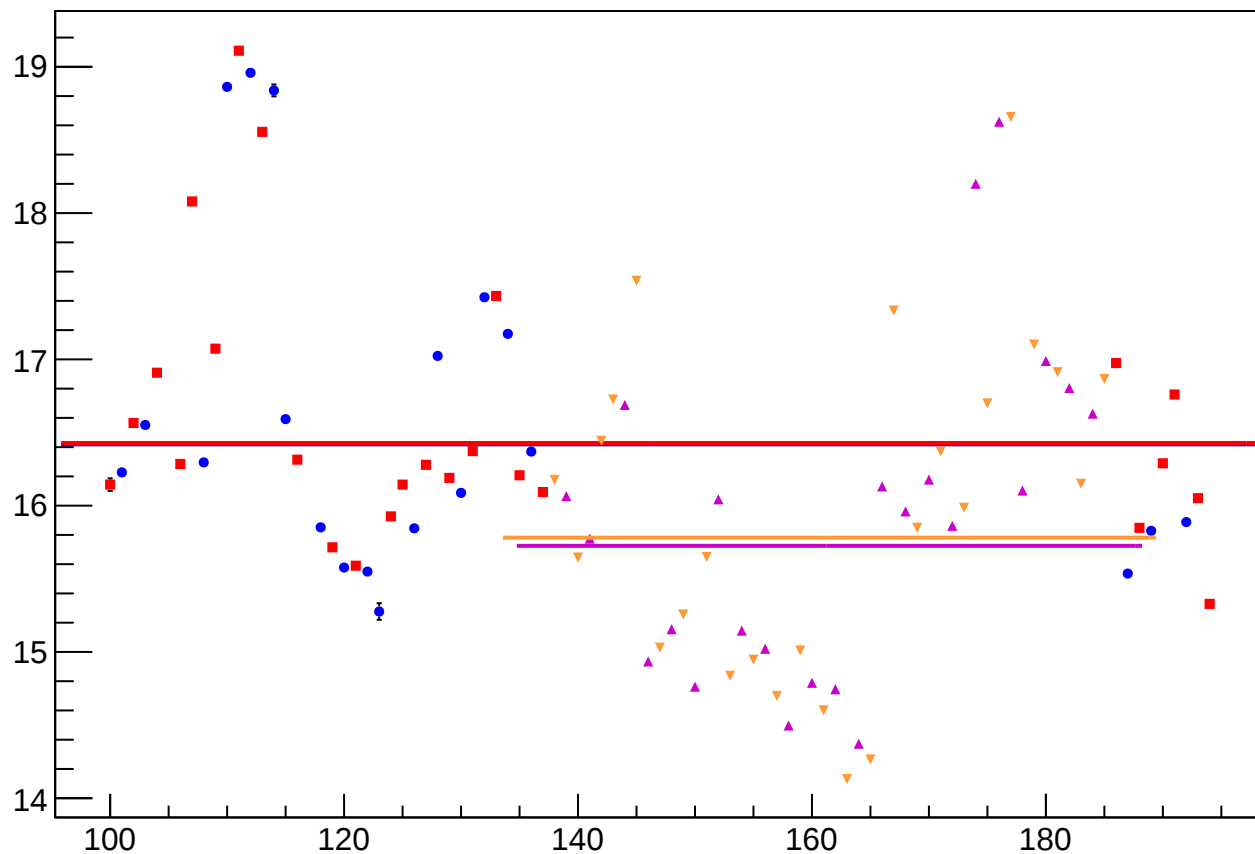
Right: 3.733 ± 3.793 $\chi^2/\text{NDF}: 39.8/44$

In: -1.864 ± 3.159 $\chi^2/\text{NDF}: 48.8/42$

Out: -2.232 ± 2.981 $\chi^2/\text{NDF}: 44.7/49$

All: -2.058 ± 2.168 $\chi^2/\text{NDF}: 93.5/92$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.419 $\pm$ 0.004 χ^2 /NDF: 49612.1/19

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 16.429 $\pm$ 0.004 χ^2 /NDF: 58549.6/24

Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2 /NDF: 318948.8/47

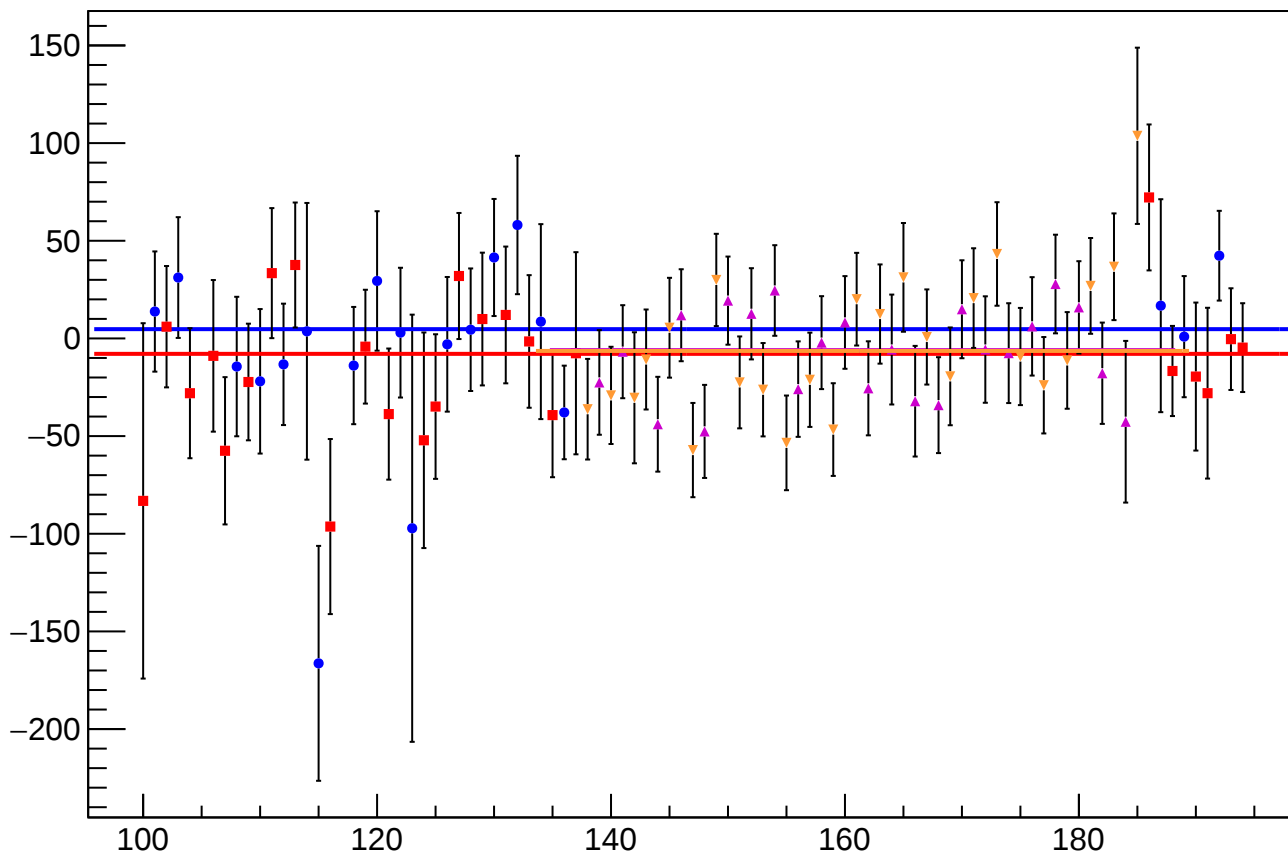
Right: 16.424 $\pm$ 0.003 χ^2 /NDF: 108164.6/44

In: 15.936 $\pm$ 0.002 χ^2 /NDF:215859.3/42

Out: 16.006 $\pm$ 0.002 χ^2 /NDF:252804.2/49

All: 15.973 $\pm$ 0.002 χ^2 /NDF: 469172.8/92

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.749+/-7.619 χ^2/NDF : 21.5/19

Left Out: -6.404+/-5.091 χ^2/NDF : 37.4/24

Right Out: -7.896+/-6.720 χ^2/NDF : 21.0/24

Left In: -5.978+/-5.222 χ^2/NDF : 18.5/22

Left: -6.196+/-3.646 χ^2/NDF : 55.9/47

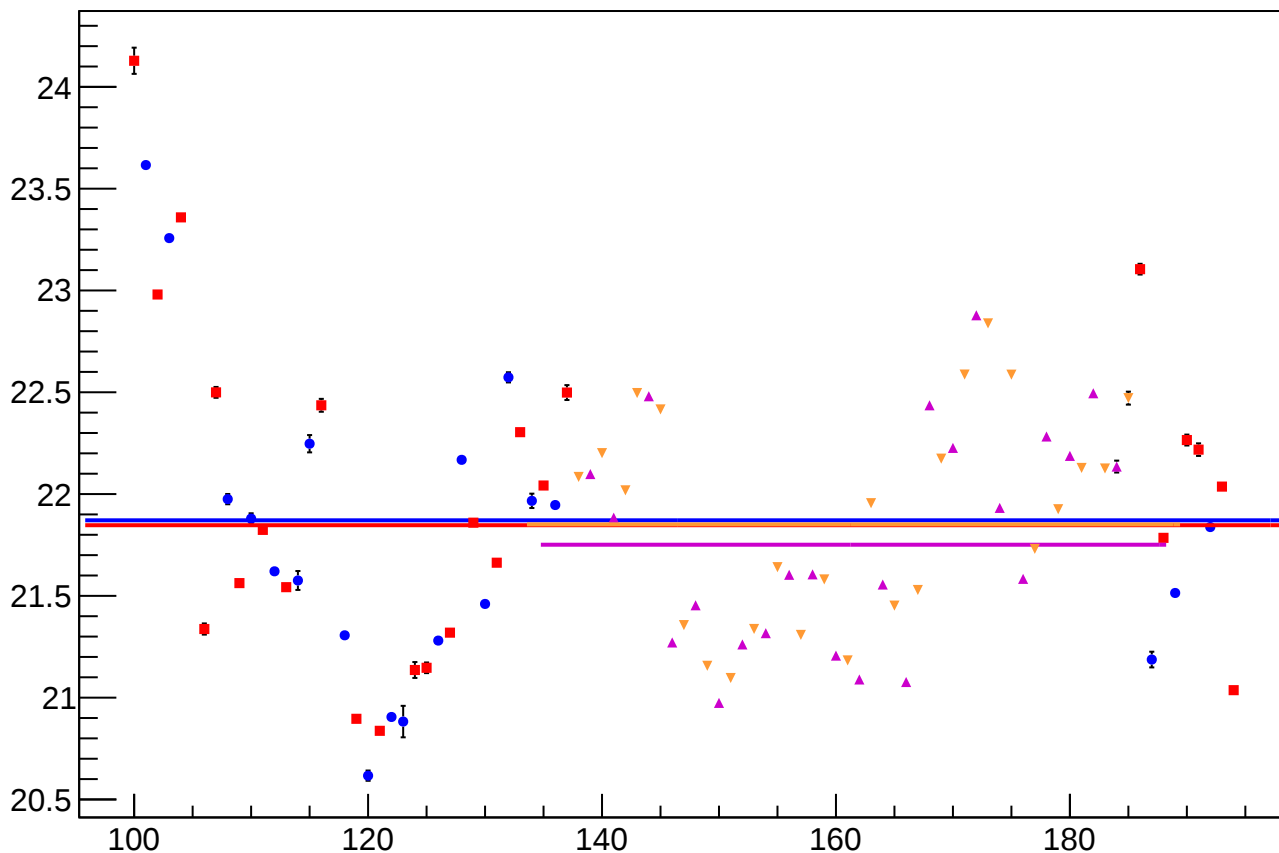
Right: -2.363+/-5.040 χ^2/NDF : 44.1/44

In: -2.549+/-4.308 χ^2/NDF : 41.4/42

Out: -6.948+/-4.058 χ^2/NDF : 58.4/49

All: -4.879+/-2.954 χ^2/NDF : 100.4/92

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.871+/-0.005 χ^2/NDF : 18288.9/19

Left Out: 21.851+/-0.004 χ^2/NDF : 19631.8/24

Right Out: 21.847+/-0.005 χ^2/NDF : 21346.8/24

Left In: 21.751+/-0.004 χ^2/NDF : 20516.3/22

Left: 21.802+/-0.003 χ^2/NDF : 40523.6/47

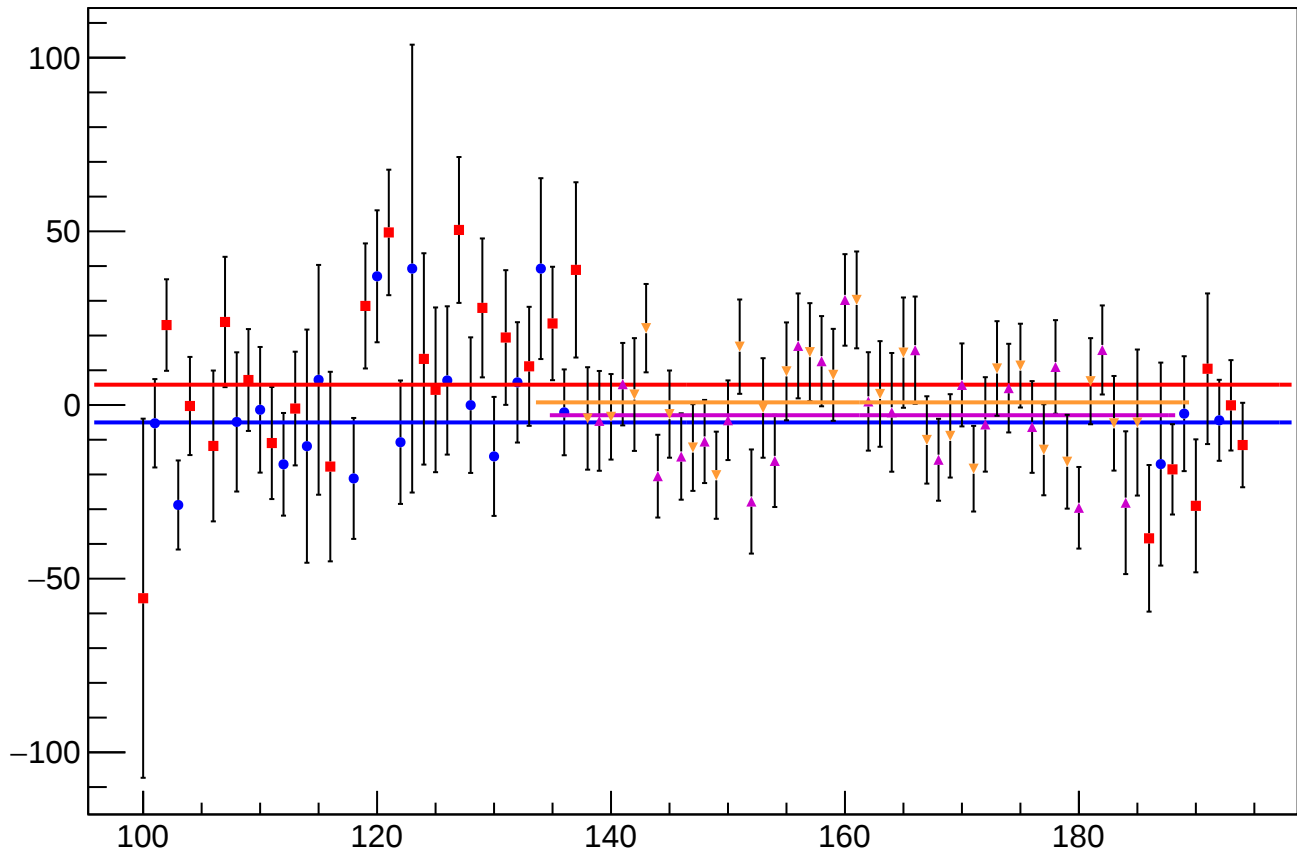
Right: 21.858+/-0.004 χ^2/NDF : 39647.0/44

In: 21.790+/-0.003 χ^2/NDF : 39142.2/42

Out: 21.850+/-0.003 χ^2/NDF : 40979.1/49

All: 21.821+/-0.002 χ^2/NDF : 80327.6/92

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.017 ± 3.910 $\chi^2/\text{NDF}: 15.0/19$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 5.849 ± 3.524 $\chi^2/\text{NDF}: 37.1/24$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

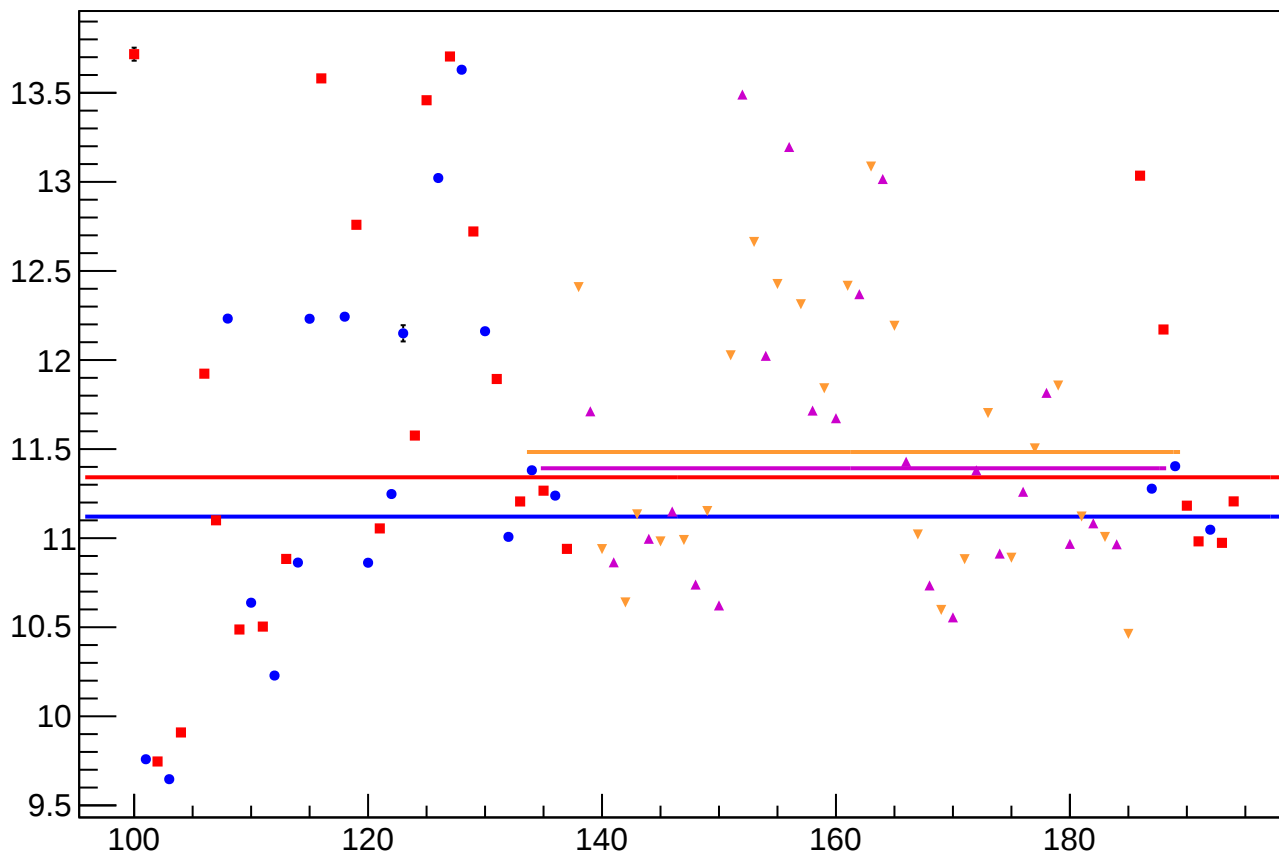
Right: 0.978 ± 2.618 $\chi^2/\text{NDF}: 56.4/44$

In: -3.633 ± 2.253 $\chi^2/\text{NDF}: 46.1/42$

Out: 2.640 ± 2.142 $\chi^2/\text{NDF}: 62.3/49$

All: -0.338 ± 1.553 $\chi^2/\text{NDF}: 112.4/92$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.121 $\pm$ 0.003 χ^2/NDF : 133334.6/19

Left Out: 11.484 $\pm$ 0.002 χ^2/NDF : 129805.4/24

Right Out: 11.342 $\pm$ 0.002 χ^2/NDF : 172708.2/24

Left In: 11.392 $\pm$ 0.002 χ^2/NDF : 150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2/NDF : 281419.2/47

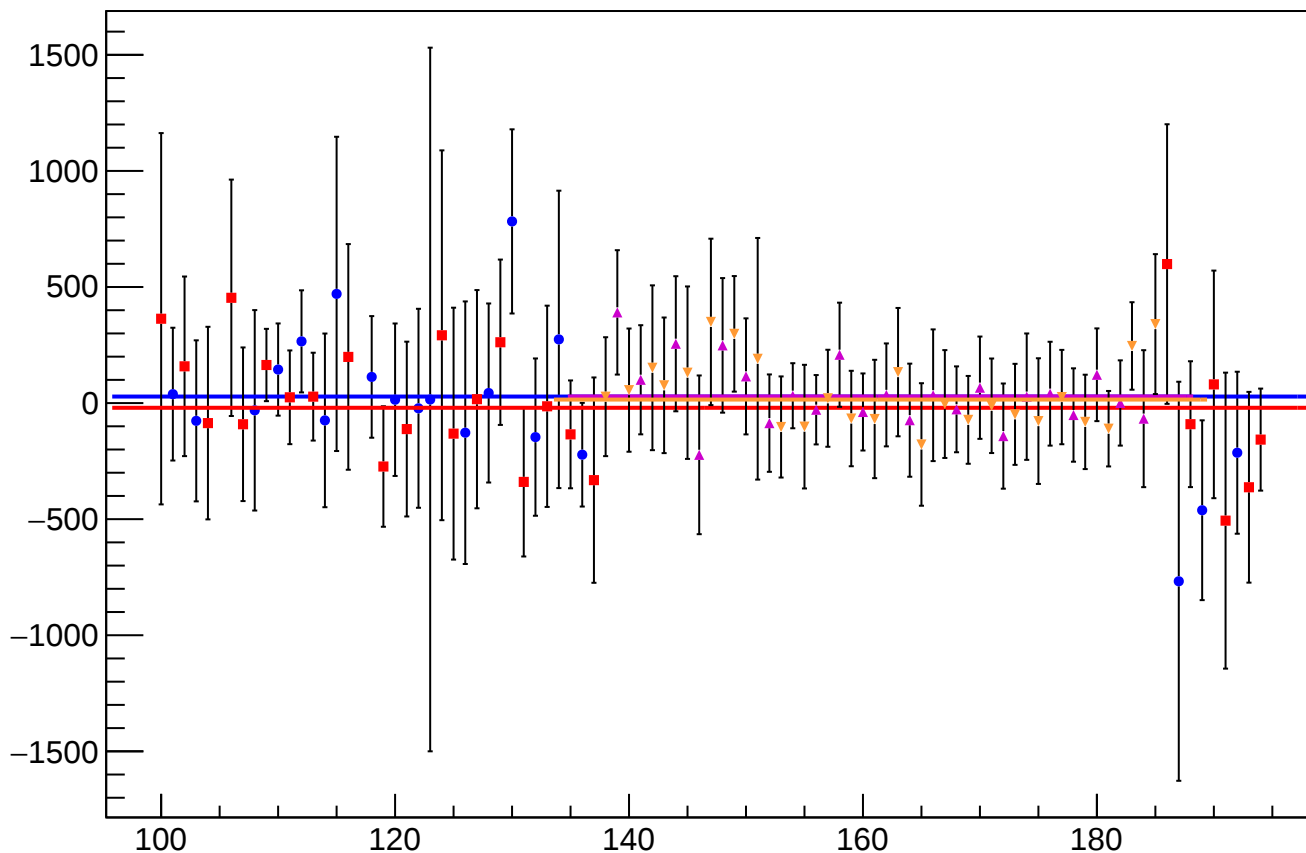
Right: 11.243 $\pm$ 0.002 χ^2/NDF : 309560.8/44

In: 11.302 $\pm$ 0.002 χ^2/NDF : 290263.2/42

Out: 11.431 $\pm$ 0.002 χ^2/NDF : 304559.4/49

All: 11.370 $\pm$ 0.001 χ^2/NDF : 598265.7/92

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 28.154+/-75.666 χ^2/NDF : 10.5/19

Left Out: 15.130+/-47.705 χ^2/NDF : 8.0/24

Right Out: -20.256+/-62.922 χ^2/NDF : 9.5/24

Left In: 28.500+/-44.797 χ^2/NDF : 6.4/22

Left: 22.235+/-32.656 χ^2/NDF : 14.4/47

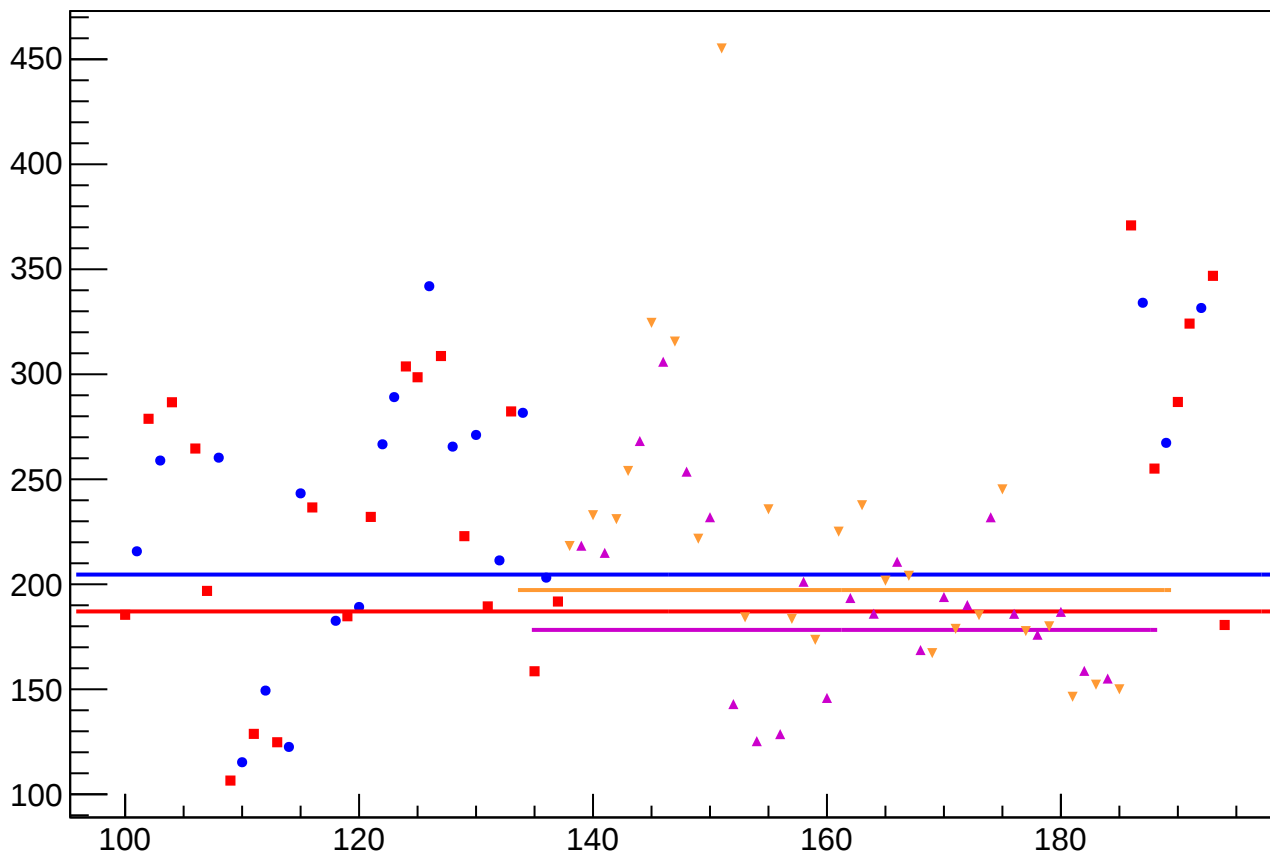
Right: -0.465+/-48.380 χ^2/NDF : 20.3/44

In: 28.410+/-38.548 χ^2/NDF : 16.9/42

Out: 2.214+/-38.014 χ^2/NDF : 17.7/49

All: 15.130+/-27.067 χ^2/NDF : 34.9/92

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.627 $\pm$ 0.054 χ^2 /NDF: 1402630.5/19

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 187.067 $\pm$ 0.044 χ^2 /NDF: 2444700.4/24

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF:1628916.6/22

Left: 187.167 $\pm$ 0.023 χ^2 /NDF: 3583826.5/47

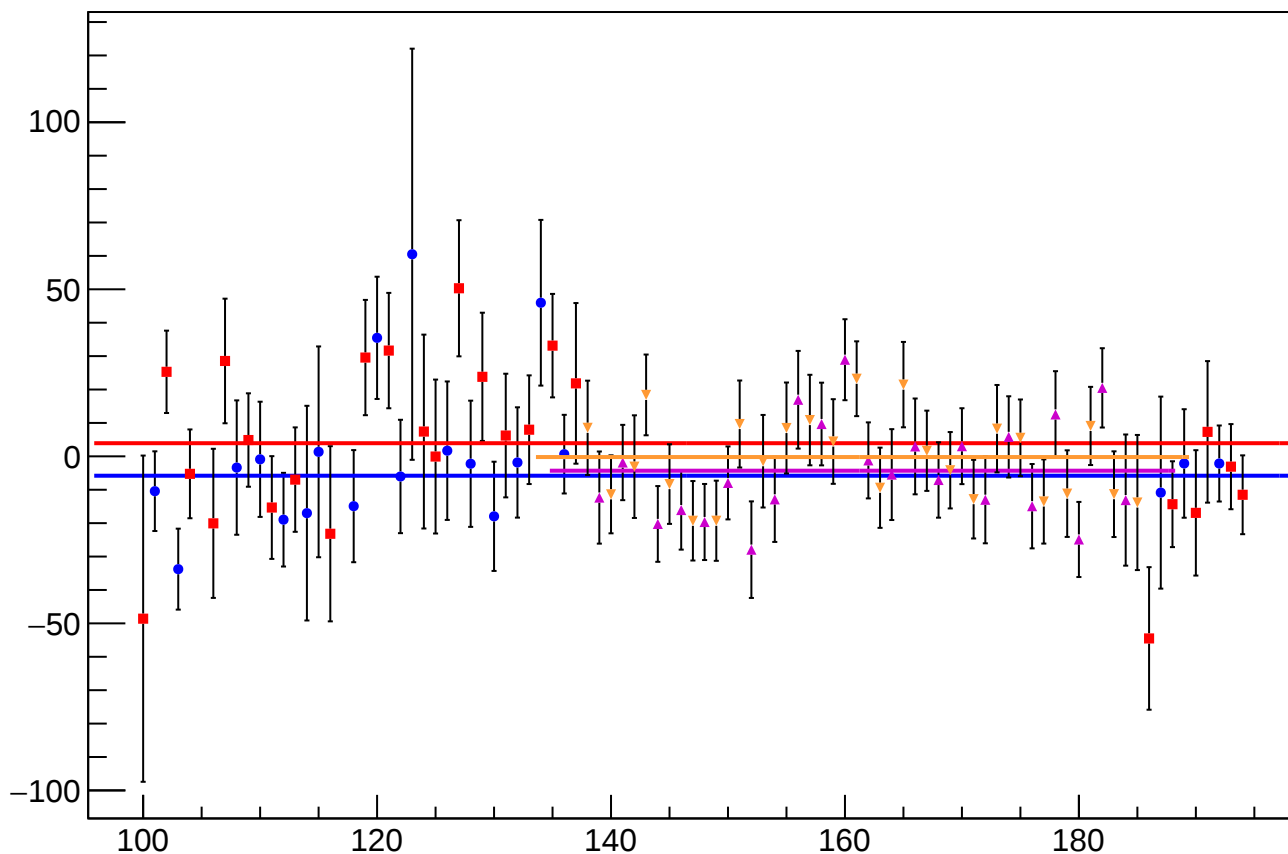
Right: 194.246 $\pm$ 0.034 χ^2 /NDF: 3911008.7/44

In: 185.116 $\pm$ 0.027 χ^2 /NDF:3211142.0/42

Out: 193.533 $\pm$ 0.027 χ^2 /NDF:4264764.4/49

All: 189.383 $\pm$ 0.019 χ^2 /NDF: 7524249.4/92

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.803 ± 3.750 $\chi^2/\text{NDF}: 18.8/19$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 3.931 ± 3.398 $\chi^2/\text{NDF}: 38.7/24$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

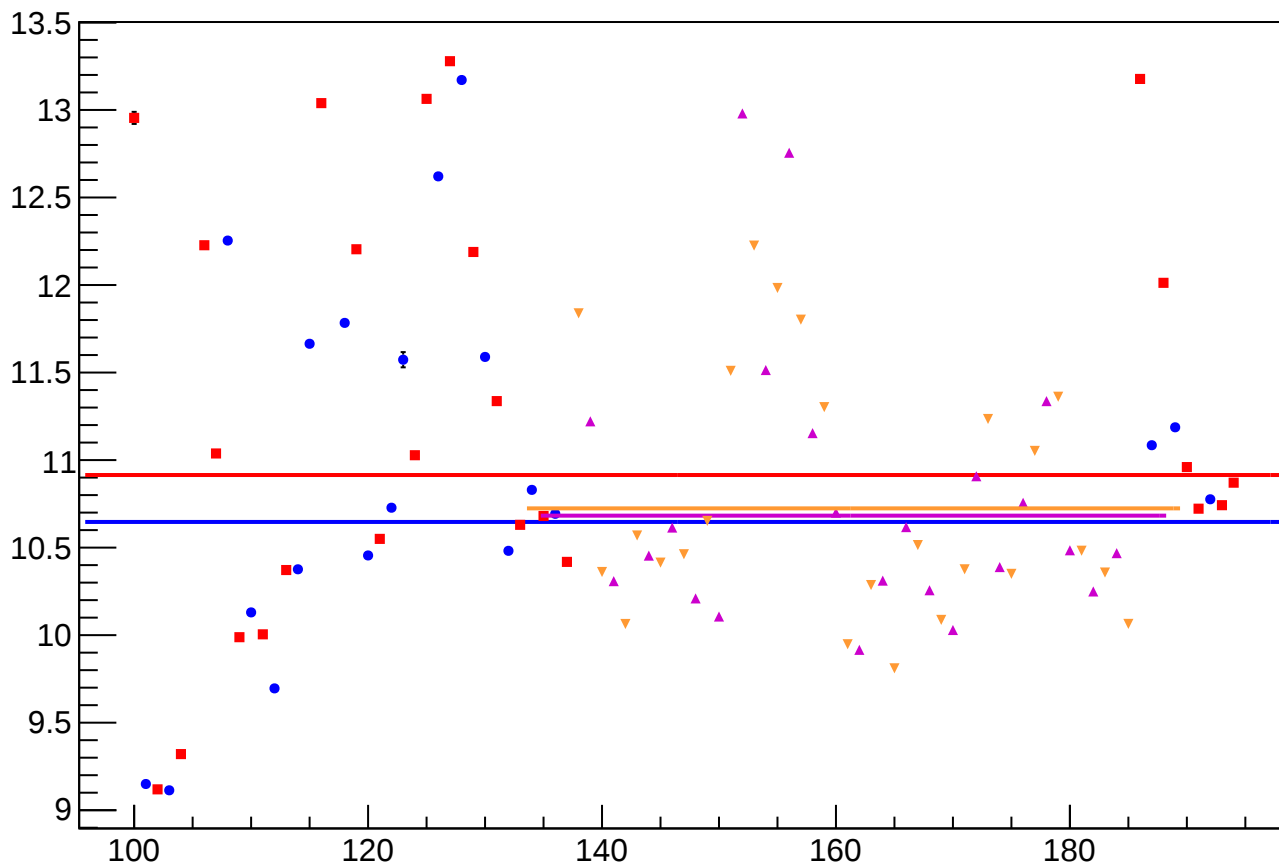
Right: -0.458 ± 2.518 $\chi^2/\text{NDF}: 61.2/44$

In: -4.783 ± 2.131 $\chi^2/\text{NDF}: 50.5/42$

Out: 1.261 ± 2.026 $\chi^2/\text{NDF}: 64.2/49$

All: -1.609 ± 1.468 $\chi^2/\text{NDF}: 118.9/92$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.647 ± 0.003 $\chi^2/\text{NDF}: 163193.3/19$

Left Out: 10.724 ± 0.002 $\chi^2/\text{NDF}: 132558.9/24$

Right Out: 10.915 ± 0.002 $\chi^2/\text{NDF}: 218857.6/24$

Left In: 10.683 ± 0.002 $\chi^2/\text{NDF}: 147835.6/22$

Left: 10.704 ± 0.001 $\chi^2/\text{NDF}: 280658.8/47$

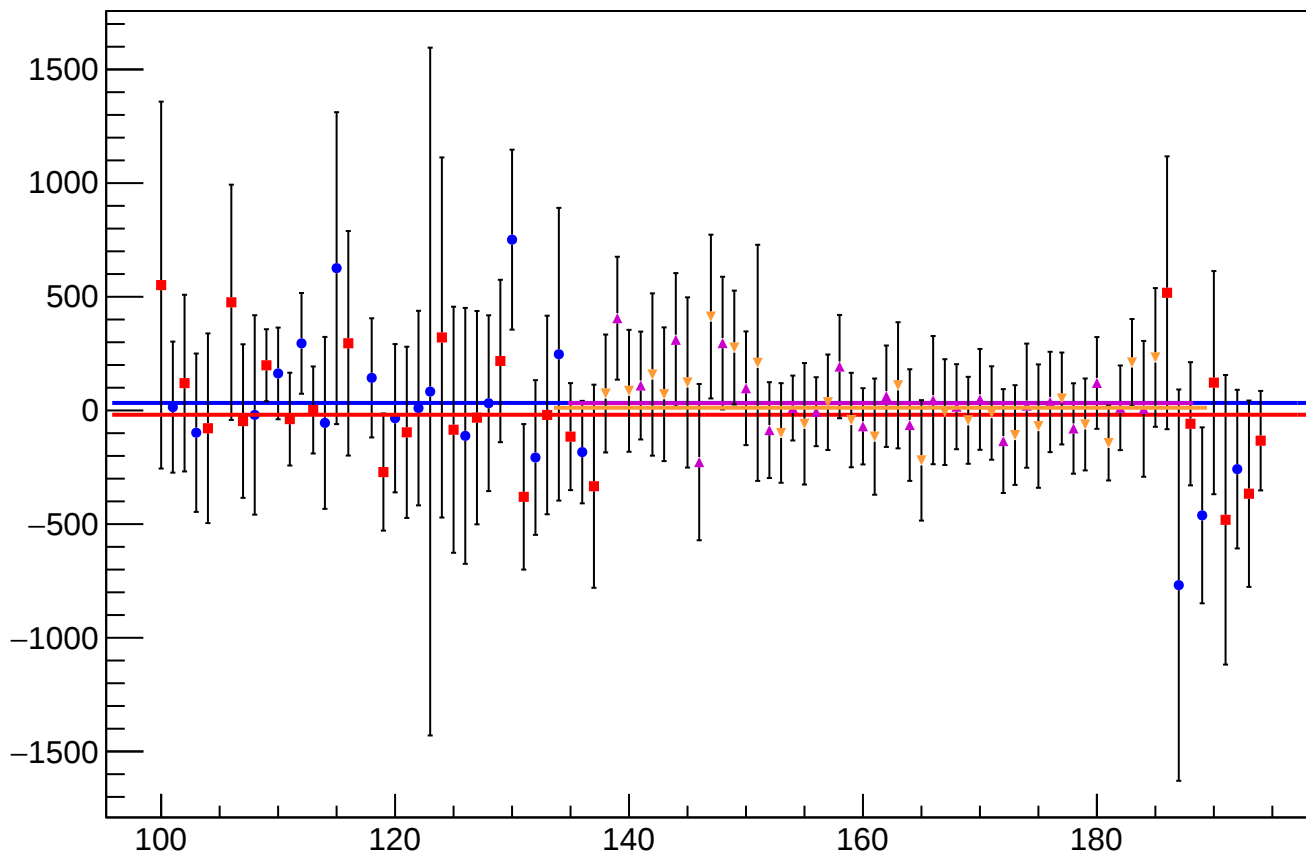
Right: 10.794 ± 0.002 $\chi^2/\text{NDF}: 387663.6/44$

In: 10.671 ± 0.002 $\chi^2/\text{NDF}: 311153.7/42$

Out: 10.792 ± 0.001 $\chi^2/\text{NDF}: 355468.7/49$

All: 10.734 ± 0.001 $\chi^2/\text{NDF}: 670004.9/92$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 33.064 $\pm$ 76.114 χ^2 /NDF: 11.1/19

Left Out: 11.891 $\pm$ 48.022 χ^2 /NDF:7.6/24

Right Out: -18.974 $\pm$ 63.376 χ^2 /NDF: 9.9/24

Left In: 32.413 $\pm$ 45.155 χ^2 /NDF:6.9/22

Left: 22.783 $\pm$ 32.896 χ^2 /NDF: 14.6/47

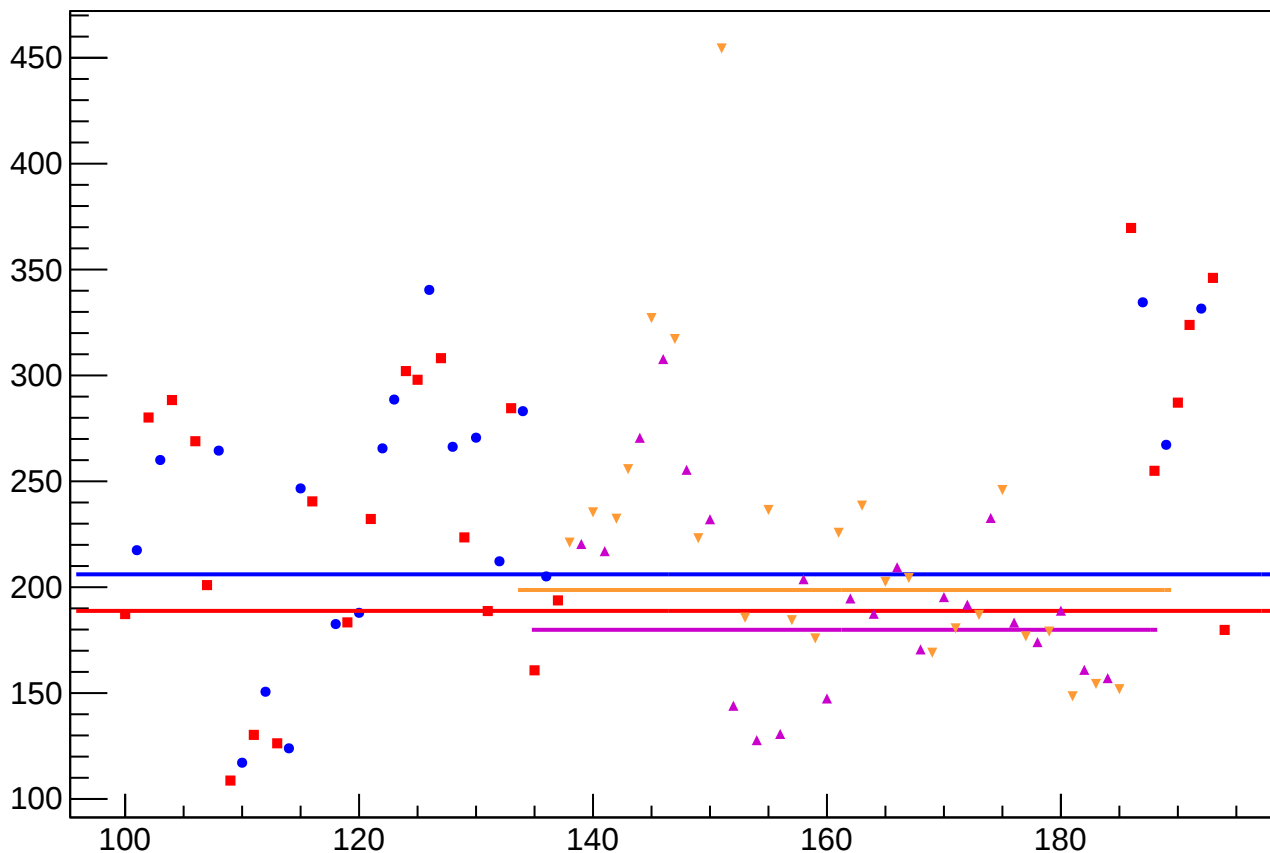
Right: 2.333 $\pm$ 48.703 χ^2 /NDF: 21.2/44

In: 32.582 $\pm$ 38.835 χ^2 /NDF:18.0/42

Out: 0.633 $\pm$ 38.275 χ^2 /NDF:17.7/49

All: 16.376 $\pm$ 27.260 χ^2 /NDF: 36.0/92

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.079 $\pm$ 0.054 χ^2 /NDF: 1367416.1/19

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 188.814 $\pm$ 0.045 χ^2 /NDF: 2376591.8/24

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

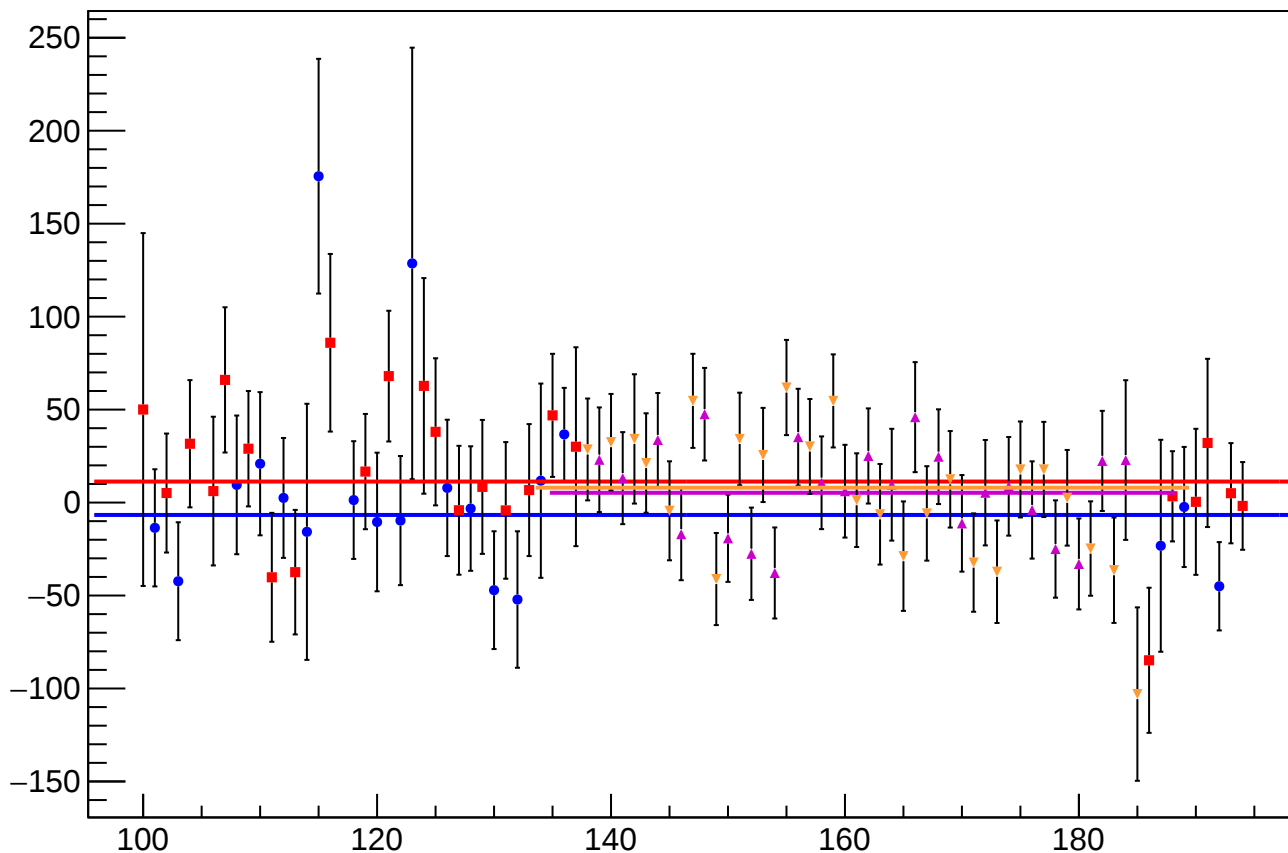
Right: 195.883 $\pm$ 0.034 χ^2 /NDF: 3804782.2/44

In: 186.705 $\pm$ 0.027 χ^2 /NDF:3123242.8/42

Out: 195.091 $\pm$ 0.027 χ^2 /NDF:4166788.0/49

All: 190.959 $\pm$ 0.019 χ^2 /NDF: 7337336.3/92

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.659 ± 7.951 χ^2/NDF : 21.1/19

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 11.303 ± 7.023 χ^2/NDF : 22.0/24

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

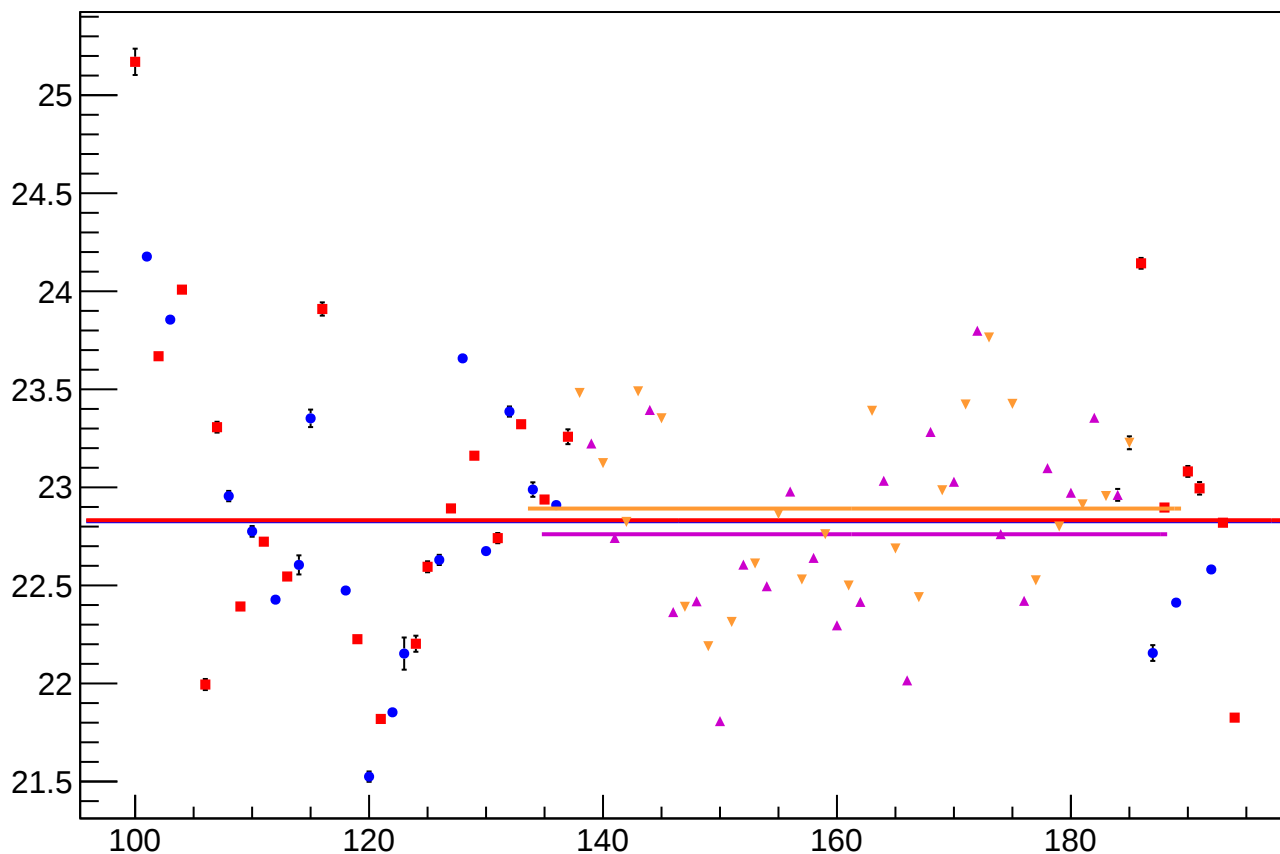
Right: 3.431 ± 5.264 χ^2/NDF : 45.9/44

In: 1.437 ± 4.504 χ^2/NDF : 43.3/42

Out: 9.211 ± 4.248 χ^2/NDF : 59.6/49

All: 5.551 ± 3.090 χ^2/NDF : 104.5/92

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.827 $\pm$ 0.006 χ^2 /NDF: 13262.2/19

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.832 $\pm$ 0.005 χ^2 /NDF: 17167.7/24

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

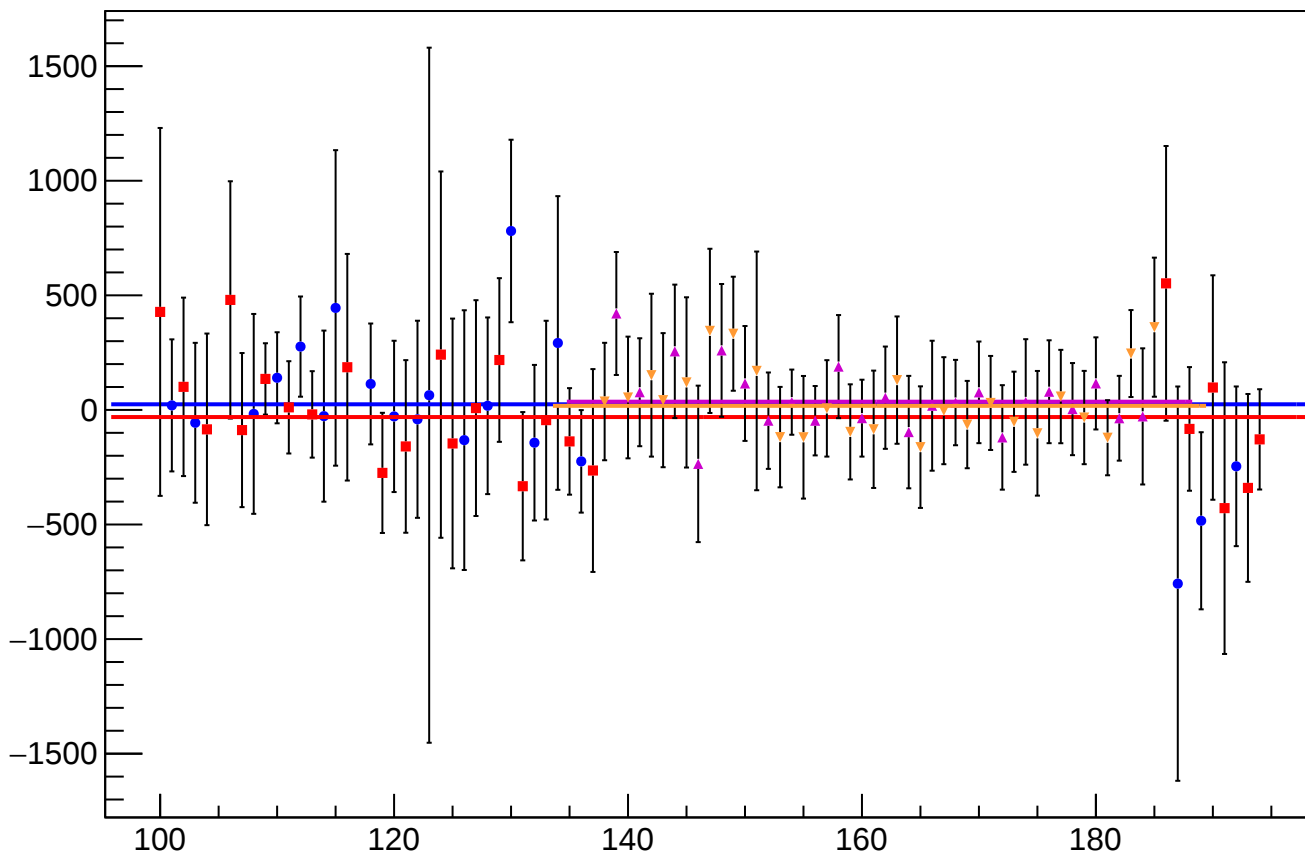
Right: 22.830 $\pm$ 0.004 χ^2 /NDF: 30430.4/44

In: 22.782 $\pm$ 0.003 χ^2 /NDF:27906.8/42

Out: 22.870 $\pm$ 0.003 χ^2 /NDF:30254.3/49

All: 22.829 $\pm$ 0.002 χ^2 /NDF: 58564.5/92

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 24.540 $\pm$ 75.807 χ^2 /NDF: 10.8/19

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -31.117 $\pm$ 62.999 χ^2 /NDF: 8.0/24

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.383 $\pm$ 32.844 χ^2 /NDF: 14.9/47

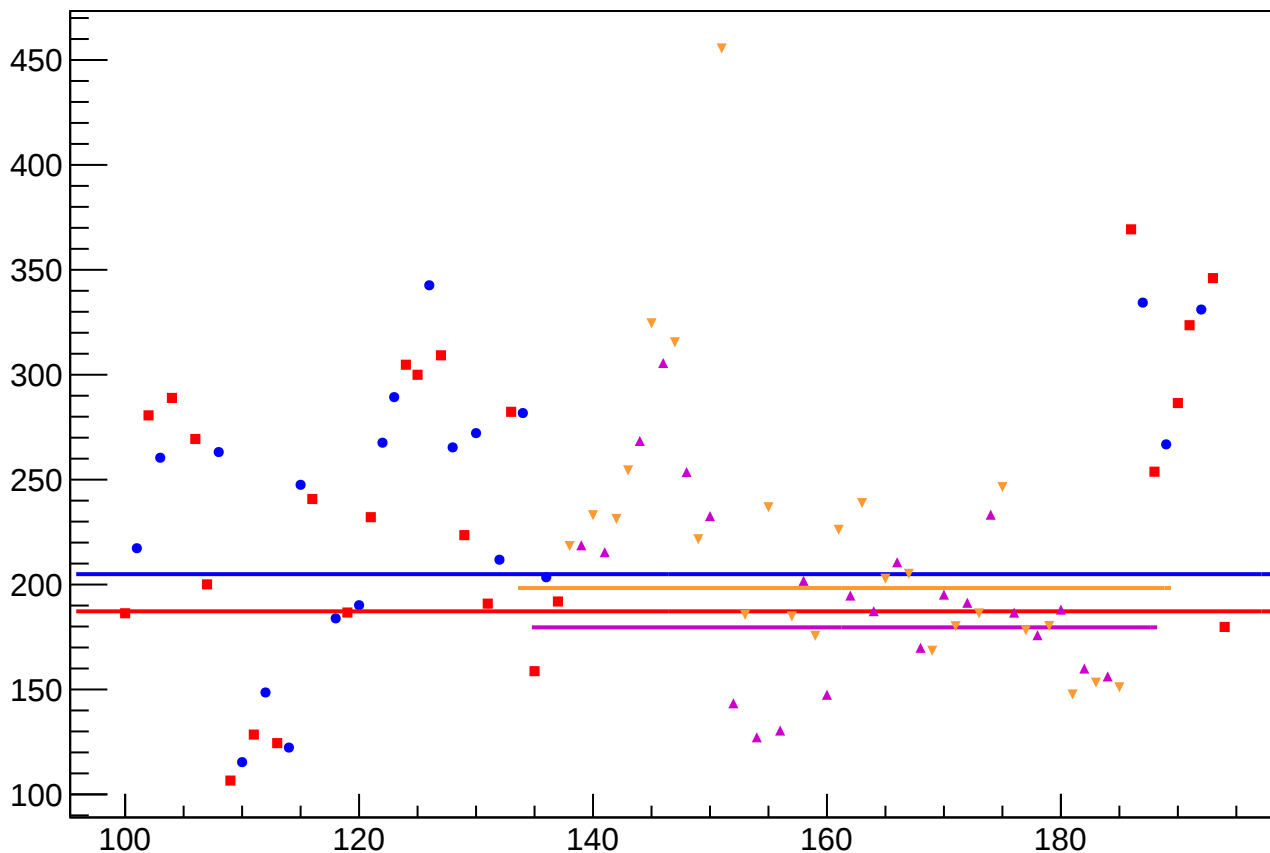
Right: -8.381 $\pm$ 48.451 χ^2 /NDF: 19.2/44

In: 32.916 $\pm$ 38.751 χ^2 /NDF:17.1/42

Out: -0.154 $\pm$ 38.151 χ^2 /NDF:17.0/49

All: 16.123 $\pm$ 27.187 χ^2 /NDF: 34.5/92

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.957 $\pm$ 0.054 χ^2 /NDF: 1413231.2/19

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 187.238 $\pm$ 0.045 χ^2 /NDF: 2461060.5/24

Left In: 179.605 $\pm$ 0.032 χ^2 /NDF:1575744.0/22

Left: 188.400 $\pm$ 0.023 χ^2 /NDF: 3495336.8/47

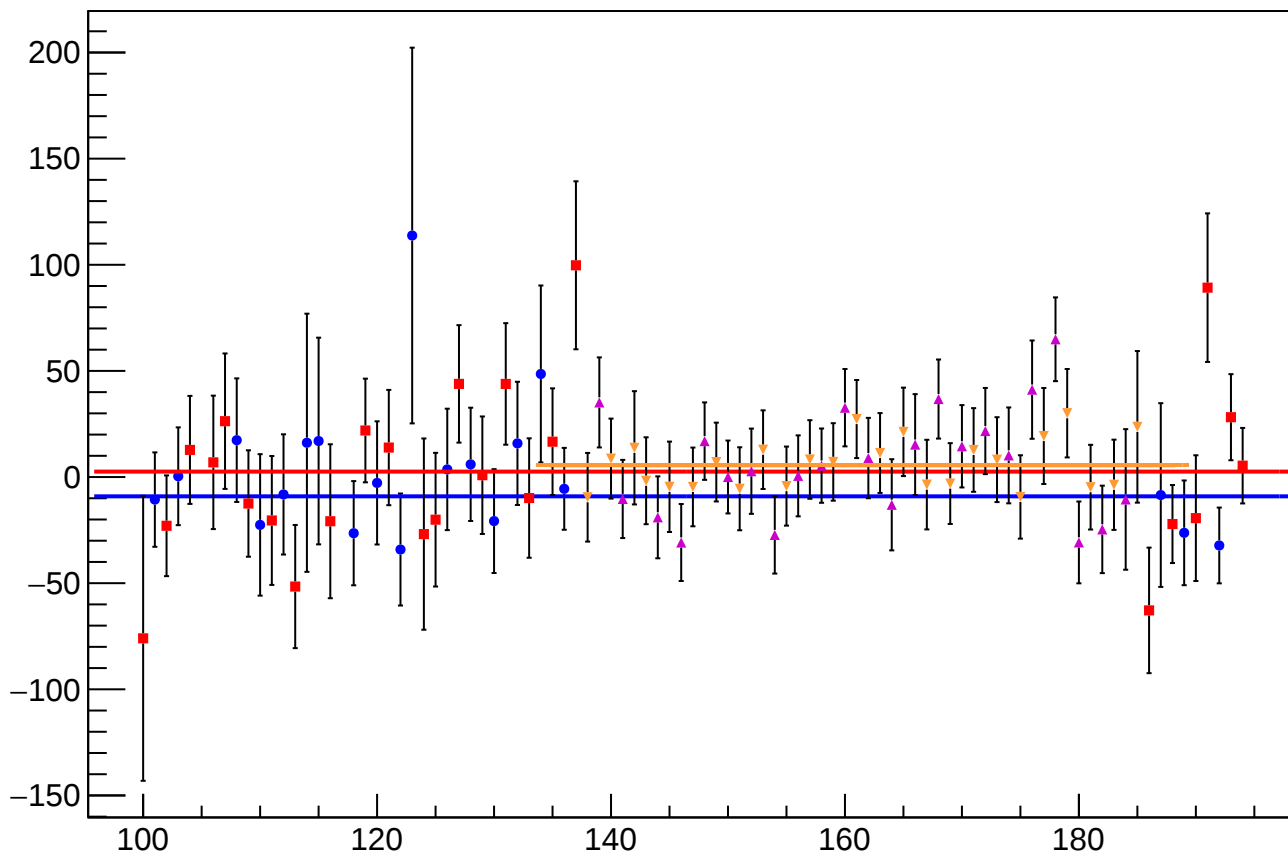
Right: 194.476 $\pm$ 0.034 χ^2 /NDF: 3938918.1/44

In: 186.230 $\pm$ 0.027 χ^2 /NDF:3154206.5/42

Out: 194.271 $\pm$ 0.027 χ^2 /NDF:4257867.3/49

All: 190.313 $\pm$ 0.019 χ^2 /NDF: 7455807.8/92

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.087 ± 6.154 $\chi^2/\text{NDF}: 10.6/19$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 2.564 ± 5.450 $\chi^2/\text{NDF}: 35.7/24$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

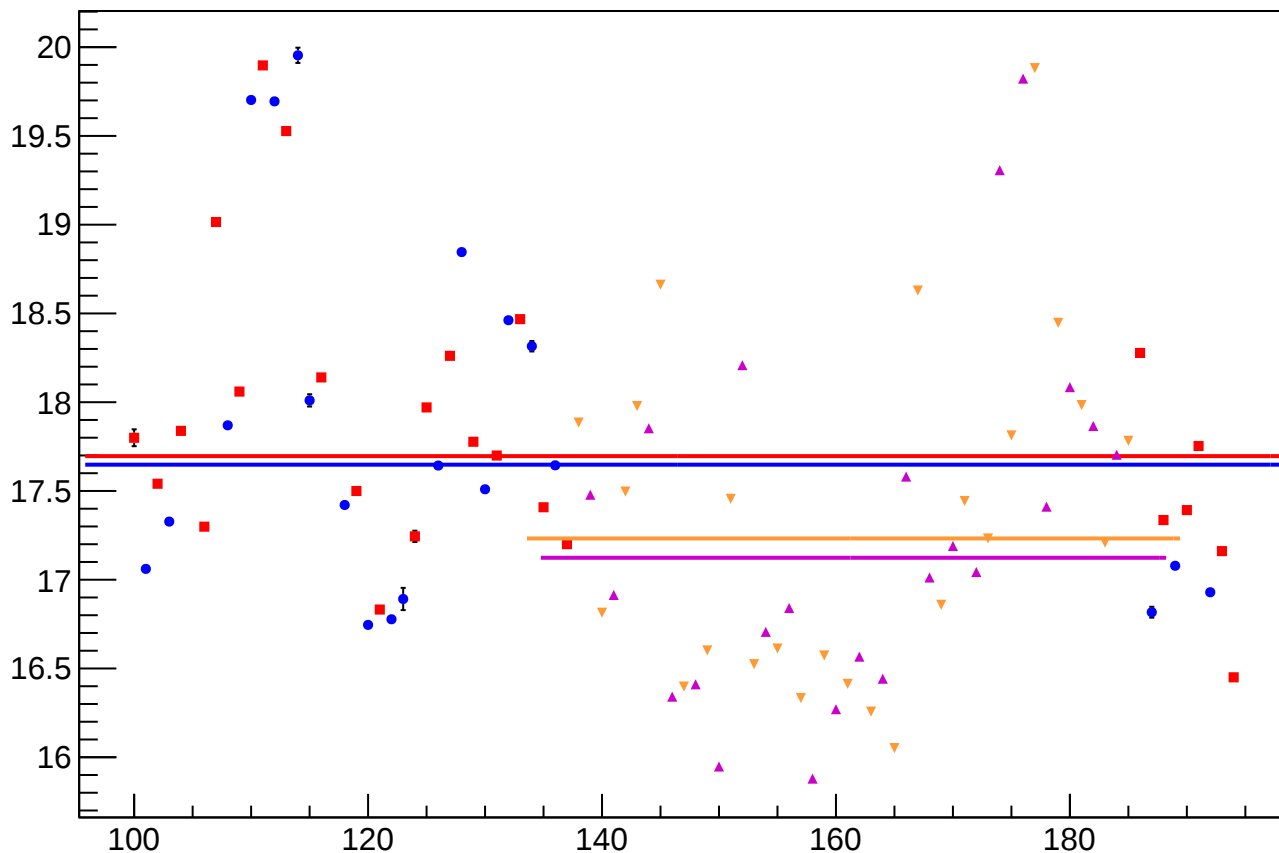
Right: -2.557 ± 4.080 $\chi^2/\text{NDF}: 48.3/44$

In: 1.049 ± 3.424 $\chi^2/\text{NDF}: 50.9/42$

Out: 4.581 ± 3.237 $\chi^2/\text{NDF}: 43.7/49$

All: 2.914 ± 2.352 $\chi^2/\text{NDF}: 95.1/92$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.648 $\pm$ 0.004 χ^2 /NDF: 38586.0/19

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.696 $\pm$ 0.004 χ^2 /NDF: 41490.6/24

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF:100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2 /NDF: 200160.6/47

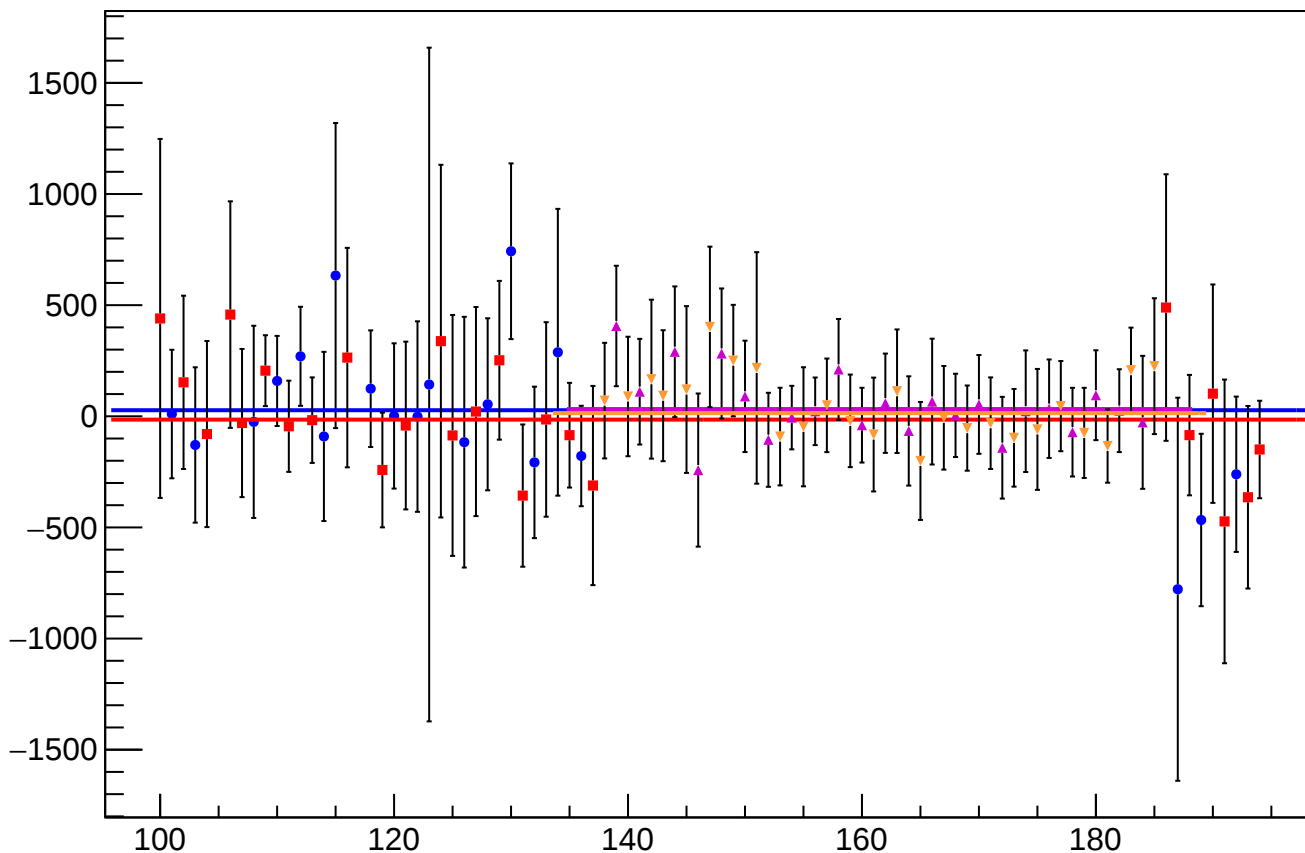
Right: 17.675 $\pm$ 0.003 χ^2 /NDF: 80145.4/44

In: 17.286 $\pm$ 0.002 χ^2 /NDF:149355.3/42

Out: 17.396 $\pm$ 0.002 χ^2 /NDF:149565.6/49

All: 17.344 $\pm$ 0.002 χ^2 /NDF: 300010.4/92

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 27.362 $\pm$ 76.298 χ^2 /NDF: 10.8/19

Left Out: 14.362 $\pm$ 48.130 χ^2 /NDF:6.9/24

Right Out: -14.939 $\pm$ 63.505 χ^2 /NDF: 9.3/24

Left In: 32.571 $\pm$ 45.248 χ^2 /NDF:6.7/22

Left: 24.028 $\pm$ 32.967 χ^2 /NDF: 13.7/47

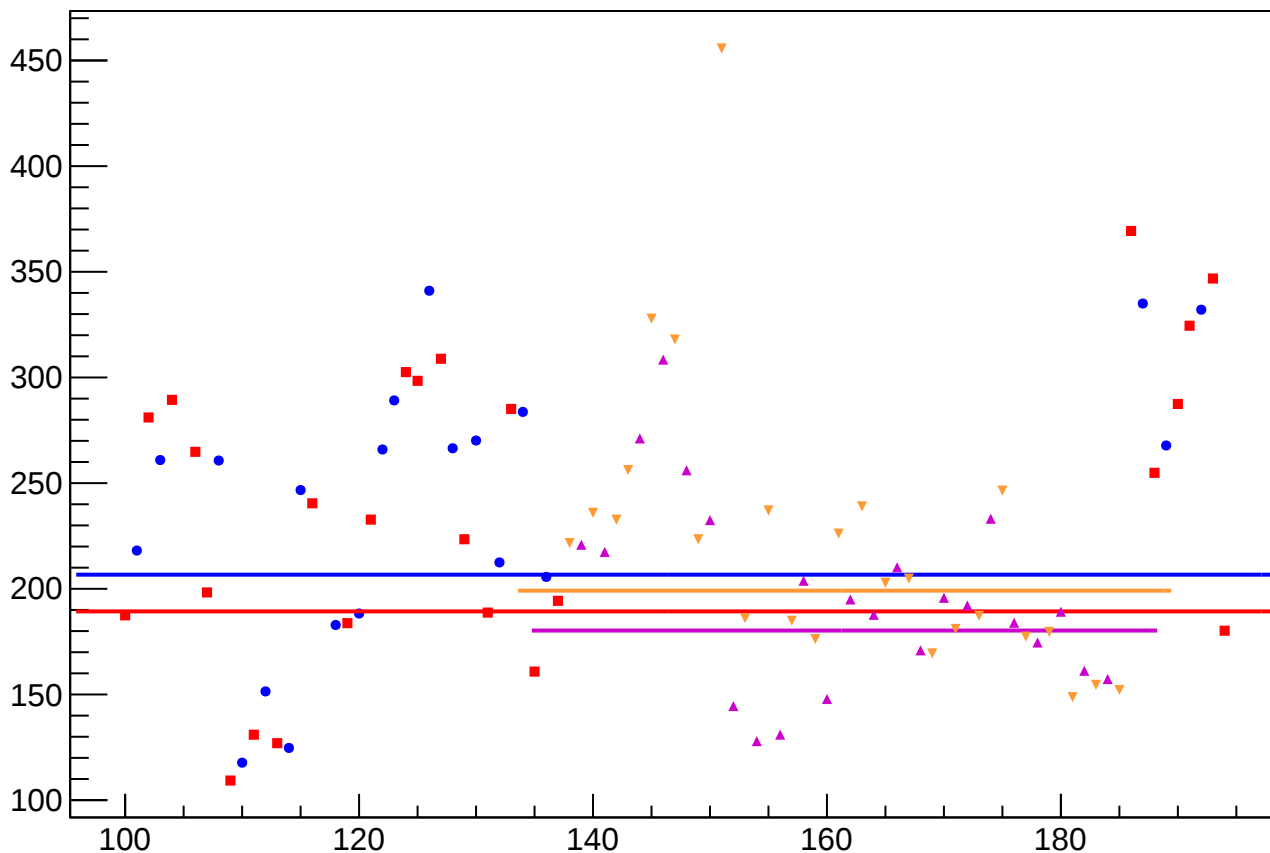
Right: 2.372 $\pm$ 48.810 χ^2 /NDF: 20.3/44

In: 31.215 $\pm$ 38.918 χ^2 /NDF:17.6/42

Out: 3.672 $\pm$ 38.358 χ^2 /NDF:16.4/49

All: 17.244 $\pm$ 27.319 χ^2 /NDF: 34.2/92

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.691 $\pm$ 0.054 χ^2 /NDF: 1350659.0/19

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 189.310 $\pm$ 0.045 χ^2 /NDF: 2354100.0/24

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

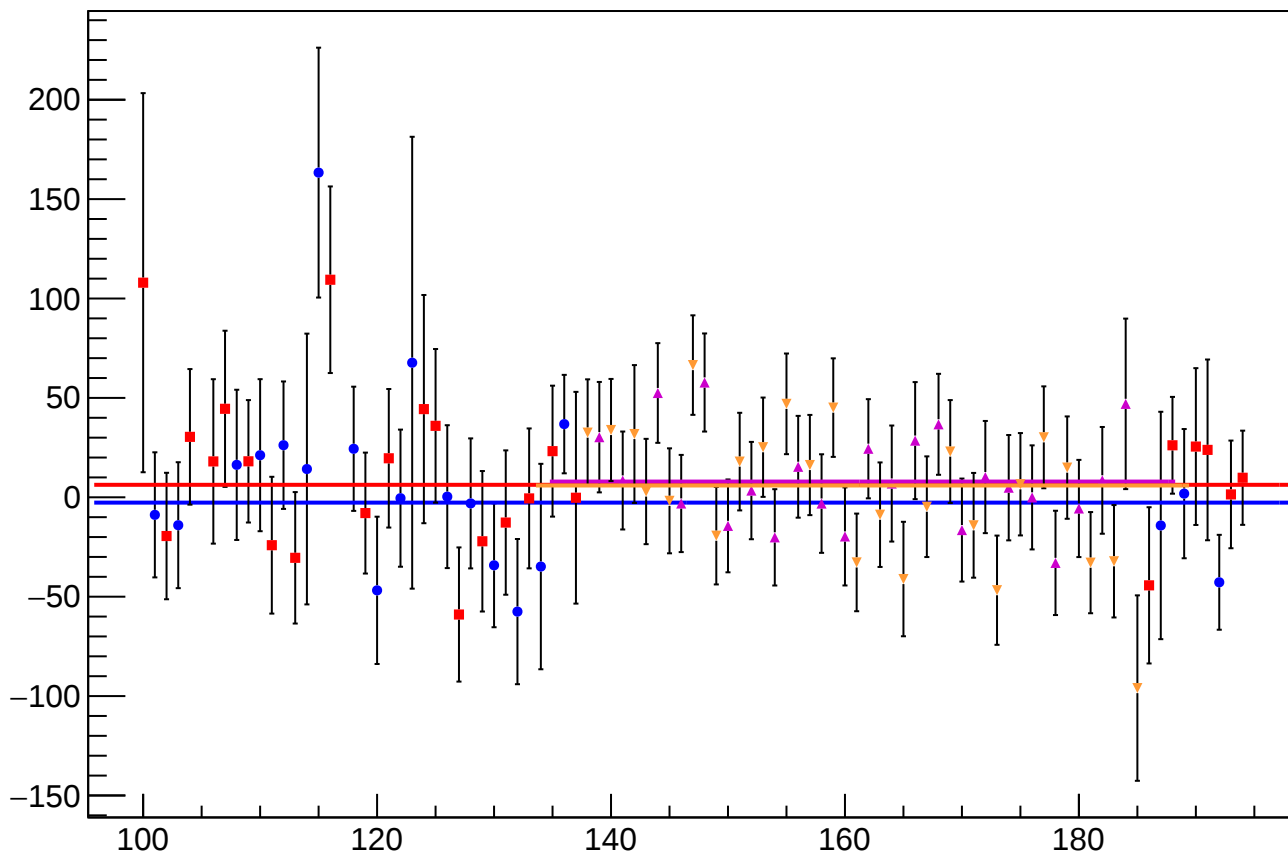
Right: 196.423 $\pm$ 0.035 χ^2 /NDF: 3766073.3/44

In: 187.134 $\pm$ 0.028 χ^2 /NDF:3108826.4/42

Out: 195.551 $\pm$ 0.027 χ^2 /NDF:4144809.6/49

All: 191.404 $\pm$ 0.019 χ^2 /NDF: 7301084.7/92

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.678 ± 7.905 χ^2/NDF : 20.3/19

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 6.282 ± 6.991 χ^2/NDF : 19.4/24

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

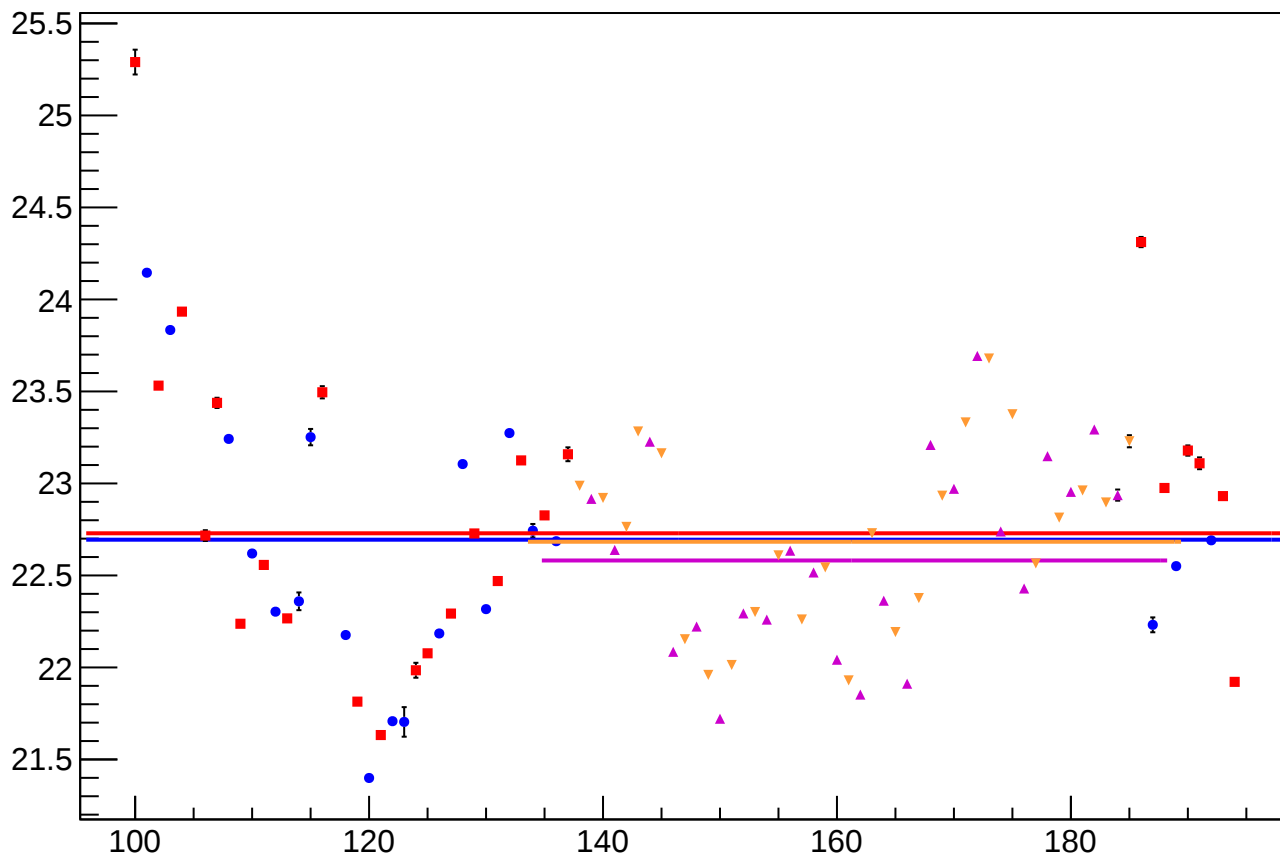
Right: 2.350 ± 5.237 χ^2/NDF : 40.5/44

In: 4.526 ± 4.471 χ^2/NDF : 40.2/42

Out: 6.063 ± 4.216 χ^2/NDF : 55.6/49

All: 5.340 ± 3.067 χ^2/NDF : 95.9/92

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.694 $\pm$ 0.006 χ^2 /NDF: 14240.4/19

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16320.2/24

Right Out: 22.729 $\pm$ 0.005 χ^2 /NDF: 19161.2/24

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

Left: 22.634 $\pm$ 0.003 χ^2 /NDF: 34586.9/47

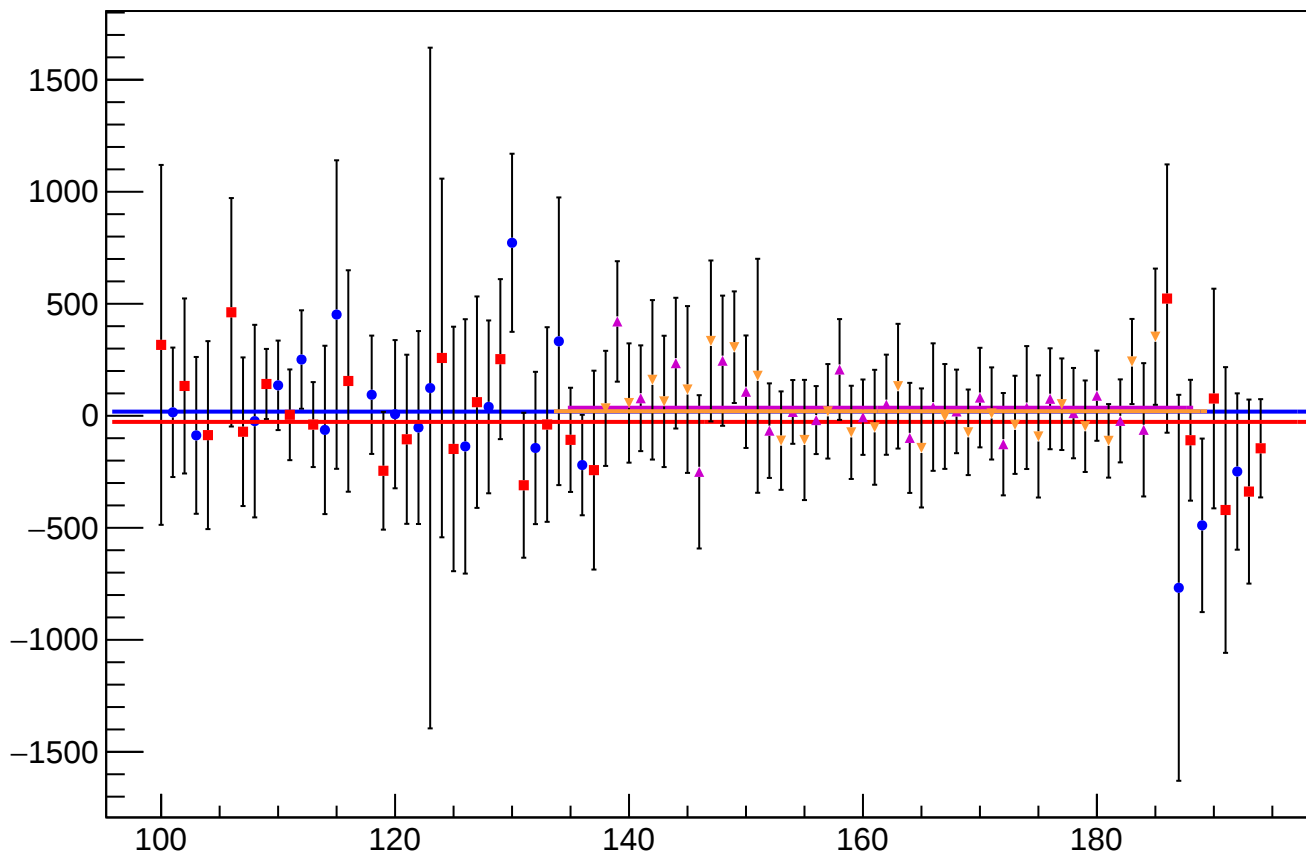
Right: 22.714 $\pm$ 0.004 χ^2 /NDF: 33423.4/44

In: 22.617 $\pm$ 0.003 χ^2 /NDF:32422.6/42

Out: 22.700 $\pm$ 0.003 χ^2 /NDF:35536.2/49

All: 22.661 $\pm$ 0.002 χ^2 /NDF: 68318.8/92

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 18.663 $\pm$ 75.994 χ^2 /NDF: 10.5/19

Left Out: 20.306 $\pm$ 48.049 χ^2 /NDF:7.7/24

Right Out: -27.201 $\pm$ 63.131 χ^2 /NDF: 7.5/24

Left In: 35.996 $\pm$ 45.180 χ^2 /NDF:6.1/22

Left: 28.633 $\pm$ 32.915 χ^2 /NDF: 13.8/47

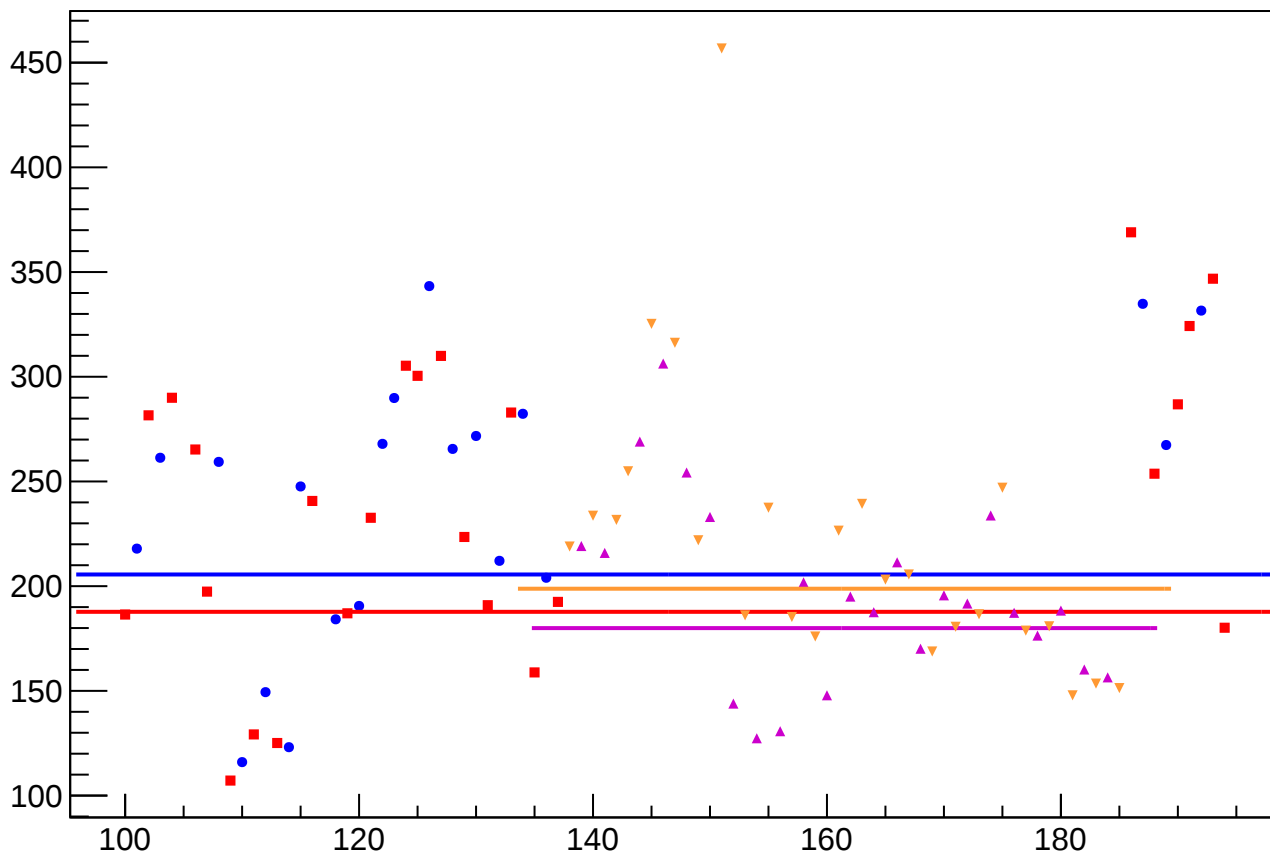
Right: -8.474 $\pm$ 48.560 χ^2 /NDF: 18.3/44

In: 31.469 $\pm$ 38.835 χ^2 /NDF:16.6/42

Out: 2.881 $\pm$ 38.234 χ^2 /NDF:15.6/49

All: 16.952 $\pm$ 27.246 χ^2 /NDF: 32.5/92

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.580 $\pm$ 0.054 χ^2 /NDF: 1395682.6/19

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 187.750 $\pm$ 0.045 χ^2 /NDF: 2437400.8/24

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

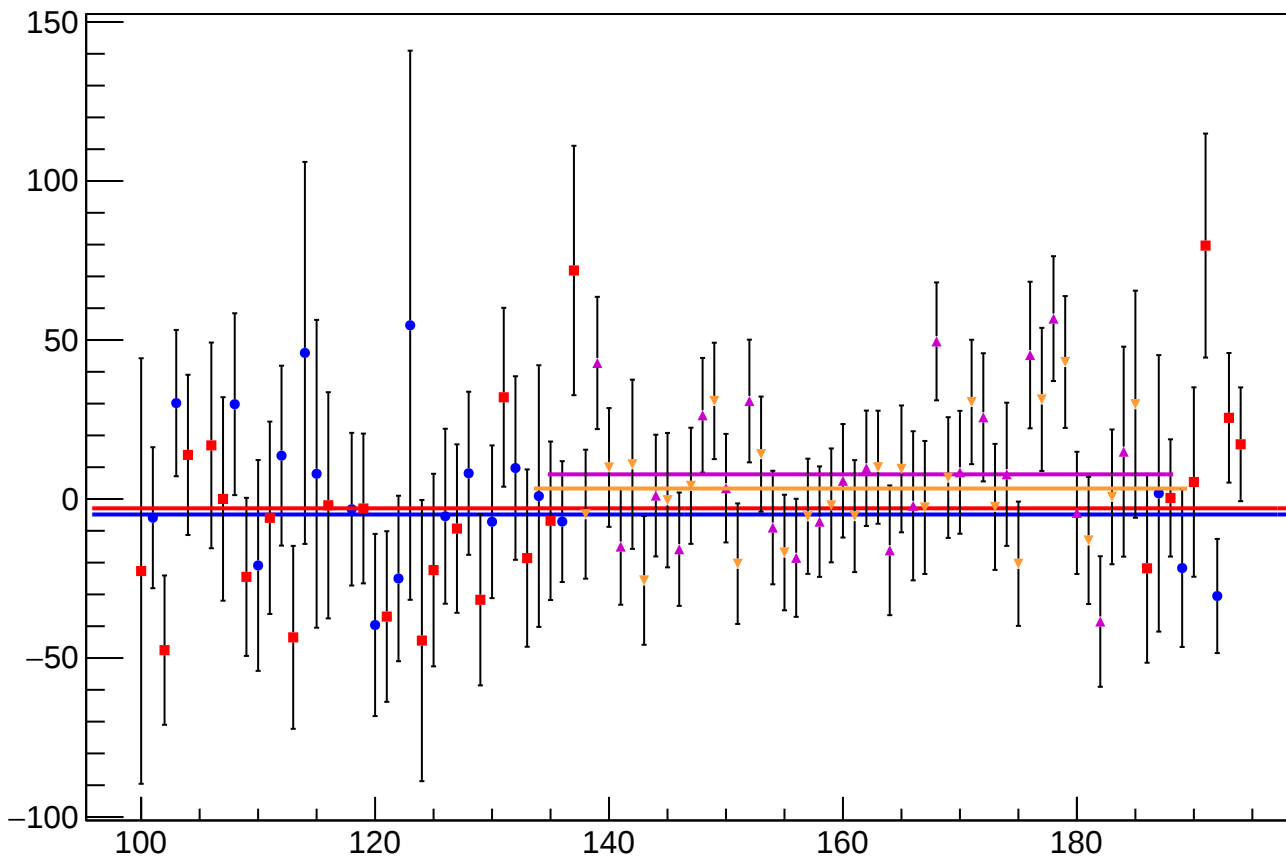
Right: 195.030 $\pm$ 0.034 χ^2 /NDF: 3898229.7/44

In: 186.660 $\pm$ 0.027 χ^2 /NDF:3139366.0/42

Out: 194.737 $\pm$ 0.027 χ^2 /NDF:4234573.7/49

All: 190.761 $\pm$ 0.019 χ^2 /NDF: 7417870.4/92

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.869 ± 6.089 $\chi^2/\text{NDF}: 10.9/19$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: -2.929 ± 5.406 $\chi^2/\text{NDF}: 26.1/24$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

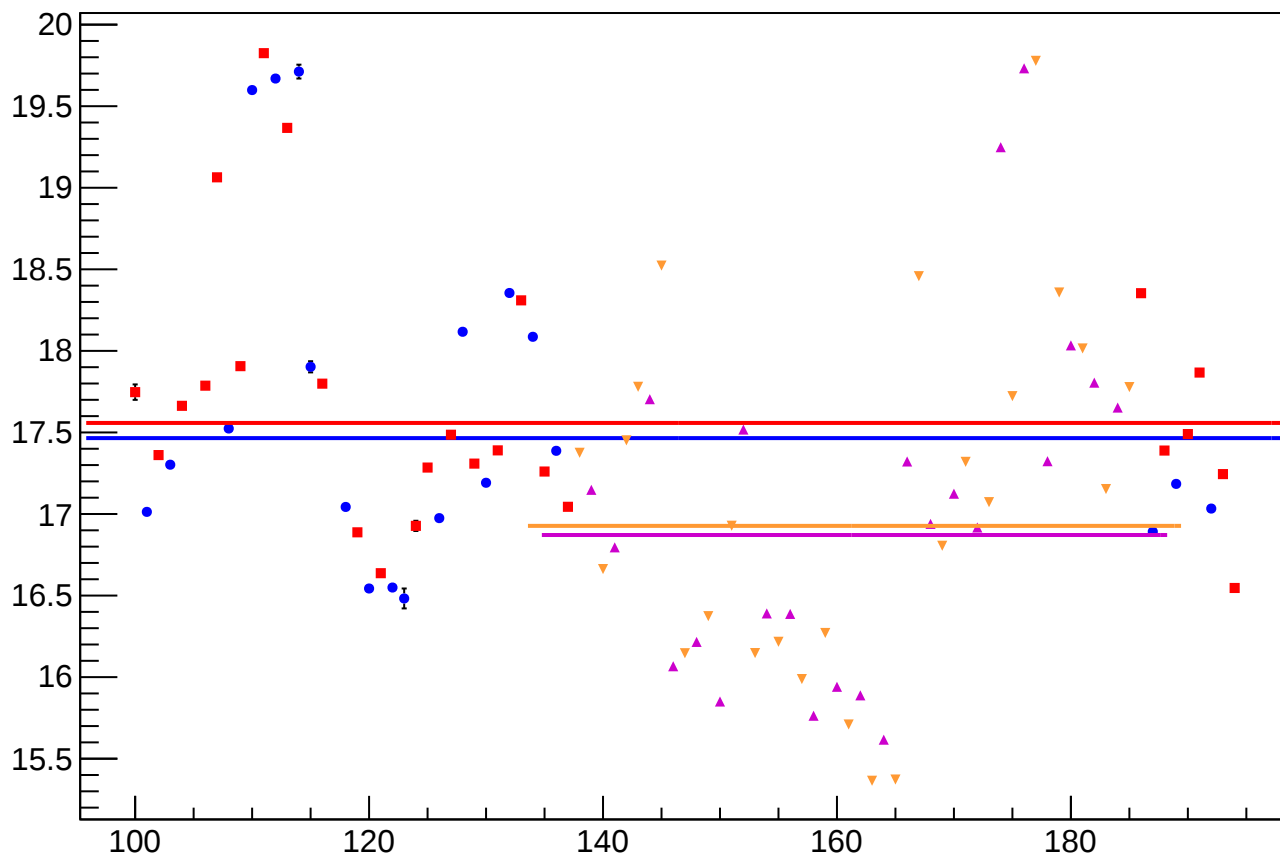
Right: -3.785 ± 4.043 $\chi^2/\text{NDF}: 37.1/44$

In: 3.870 ± 3.378 $\chi^2/\text{NDF}: 48.1/42$

Out: 1.134 ± 3.191 $\chi^2/\text{NDF}: 45.7/49$

All: 2.424 ± 2.320 $\chi^2/\text{NDF}: 94.2/92$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.465 $\pm$ 0.004 χ^2 /NDF: 36104.3/19

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.558 $\pm$ 0.004 χ^2 /NDF: 39874.0/24

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

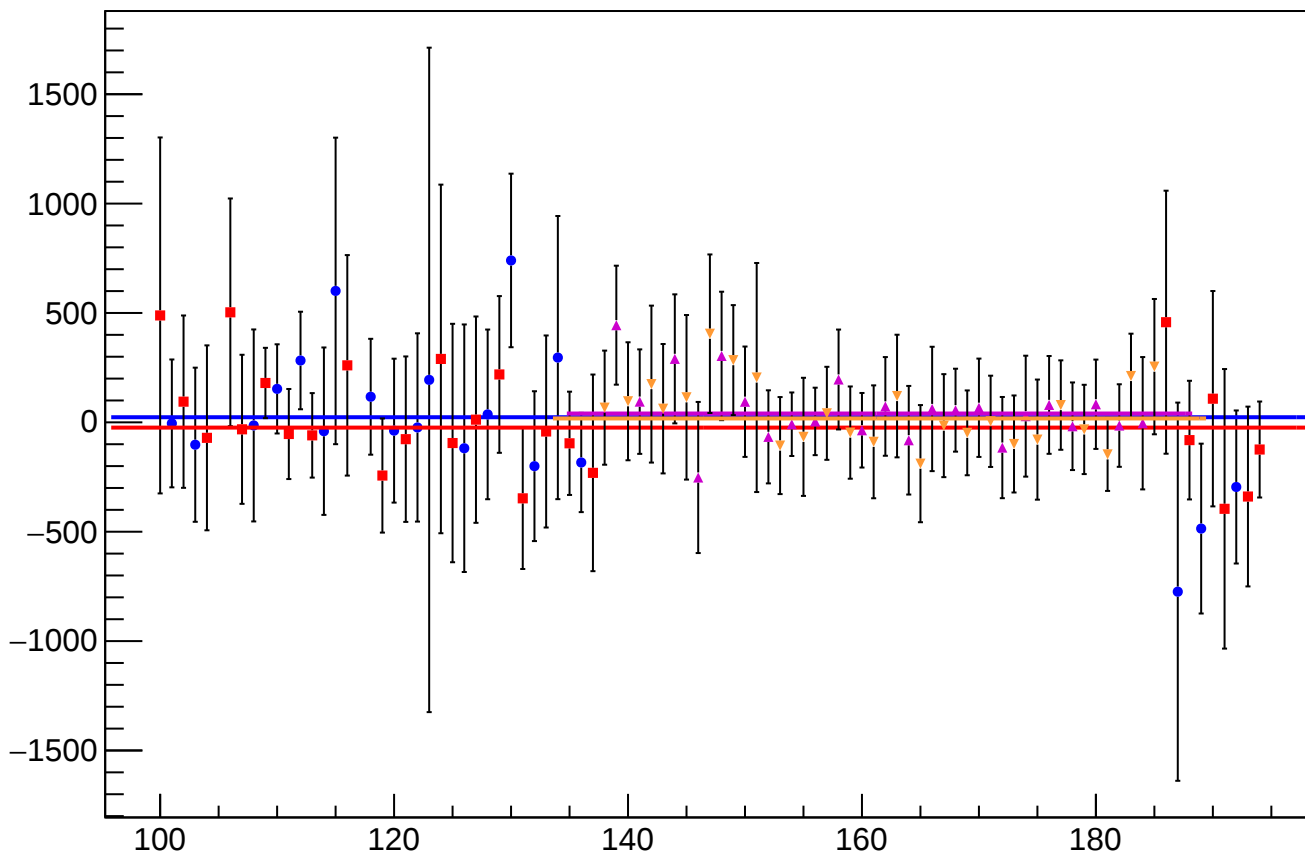
Right: 17.517 $\pm$ 0.003 χ^2 /NDF: 76239.1/44

In: 17.054 $\pm$ 0.002 χ^2 /NDF:167270.9/42

Out: 17.147 $\pm$ 0.002 χ^2 /NDF:196156.3/49

All: 17.103 $\pm$ 0.002 χ^2 /NDF: 364228.3/92

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 23.376 $\pm$ 76.707 χ^2 /NDF: 11.0/19

Left Out: 17.828 $\pm$ 48.547 χ^2 /NDF:7.5/24

Right Out: -24.055 $\pm$ 63.870 χ^2 /NDF: 8.1/24

Left In: 40.355 $\pm$ 45.689 χ^2 /NDF:6.6/22

Left: 29.774 $\pm$ 33.271 χ^2 /NDF: 14.2/47

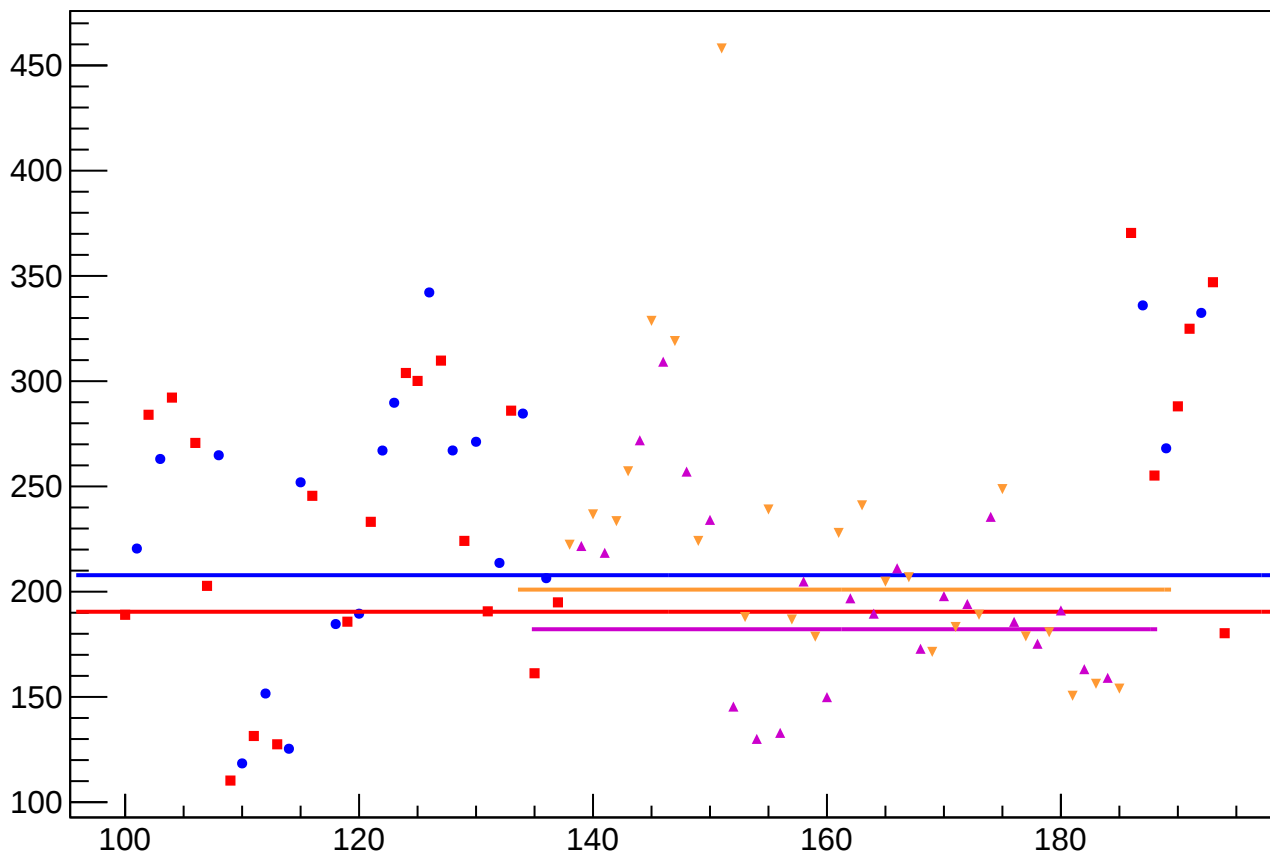
Right: -4.635 $\pm$ 49.083 χ^2 /NDF: 19.3/44

In: 35.909 $\pm$ 39.253 χ^2 /NDF:17.6/42

Out: 2.492 $\pm$ 38.650 χ^2 /NDF:15.8/49

All: 18.941 $\pm$ 27.540 χ^2 /NDF: 33.8/92

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 207.834 $\pm$ 0.054 χ^2 /NDF: 1349701.7/19

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 190.465 $\pm$ 0.045 χ^2 /NDF: 2351083.8/24

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2 /NDF: 3422724.8/47

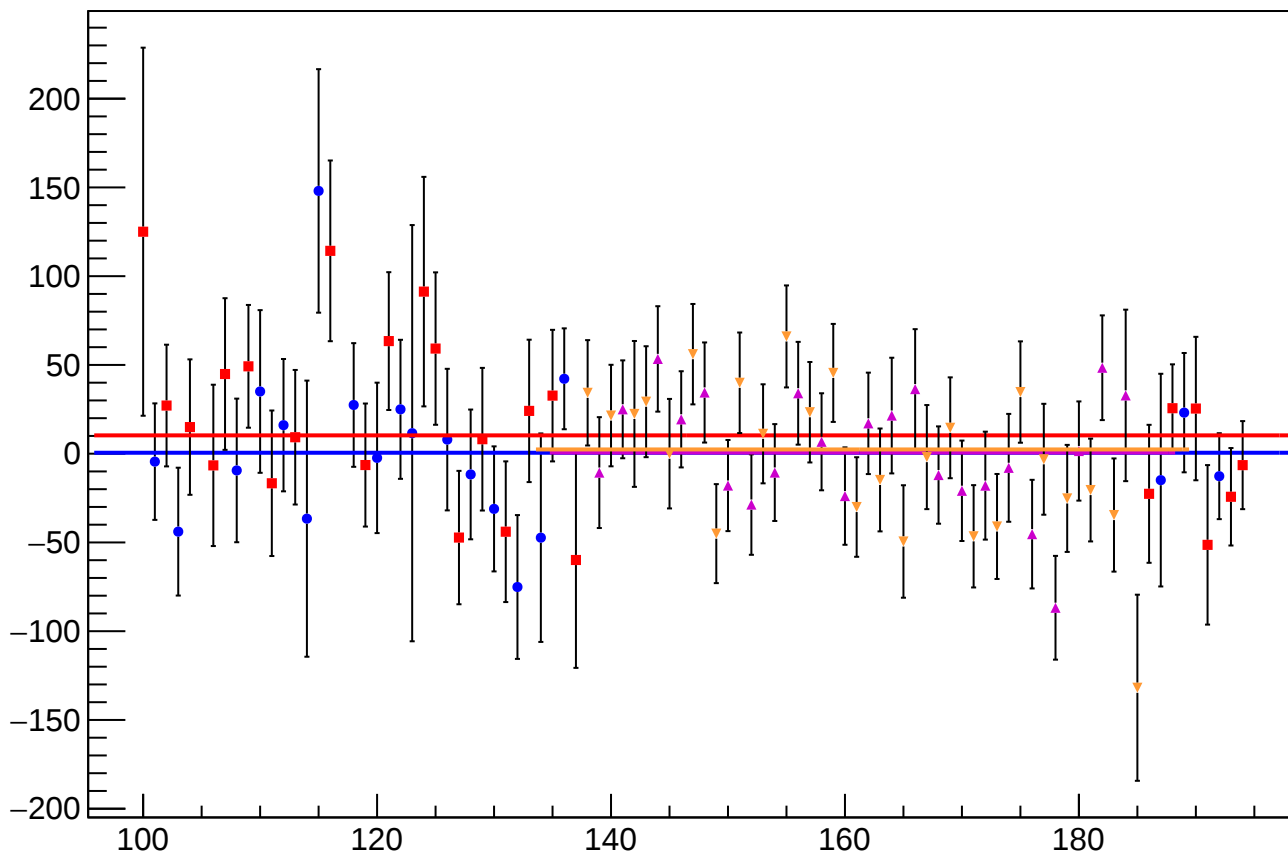
Right: 197.576 $\pm$ 0.035 χ^2 /NDF: 3761343.2/44

In: 188.882 $\pm$ 0.028 χ^2 /NDF:3051021.5/42

Out: 197.133 $\pm$ 0.027 χ^2 /NDF:4112768.2/49

All: 193.071 $\pm$ 0.019 χ^2 /NDF: 7208658.3/92

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.527 ± 8.710 $\chi^2/\text{NDF}: 16.3/19$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 10.320 ± 7.581 $\chi^2/\text{NDF}: 24.3/24$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

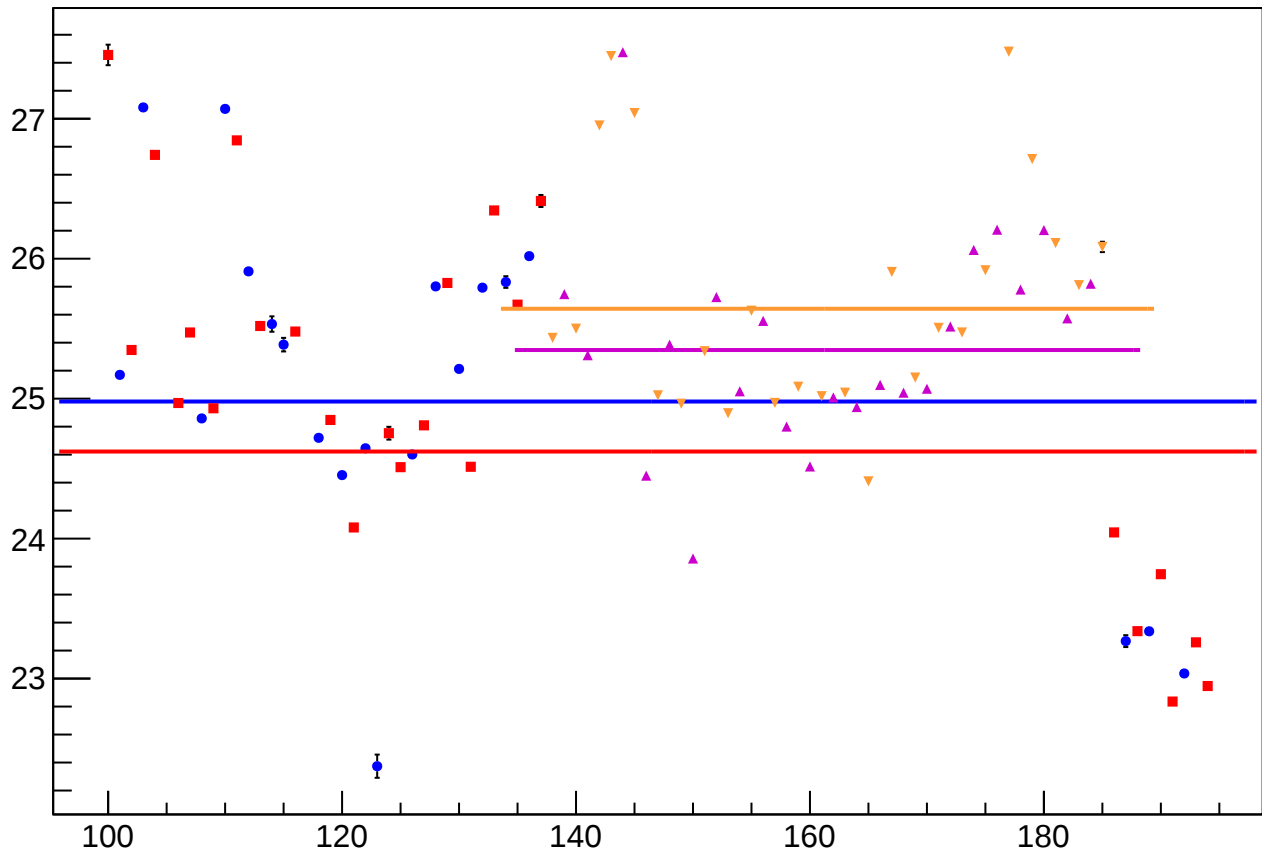
Right: 6.099 ± 5.718 $\chi^2/\text{NDF}: 41.3/44$

In: 0.604 ± 4.992 $\chi^2/\text{NDF}: 43.6/42$

Out: 5.431 ± 4.695 $\chi^2/\text{NDF}: 64.1/49$

All: 3.165 ± 3.420 $\chi^2/\text{NDF}: 108.2/92$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.979 ± 0.006 $\chi^2/\text{NDF}: 38504.2/19$

Left Out: 25.642 ± 0.004 $\chi^2/\text{NDF}: 34802.2/24$

Right Out: 24.622 ± 0.005 $\chi^2/\text{NDF}: 50582.2/24$

Left In: 25.347 ± 0.004 $\chi^2/\text{NDF}: 29389.5/22$

Left: 25.498 ± 0.003 $\chi^2/\text{NDF}: 66578.5/47$

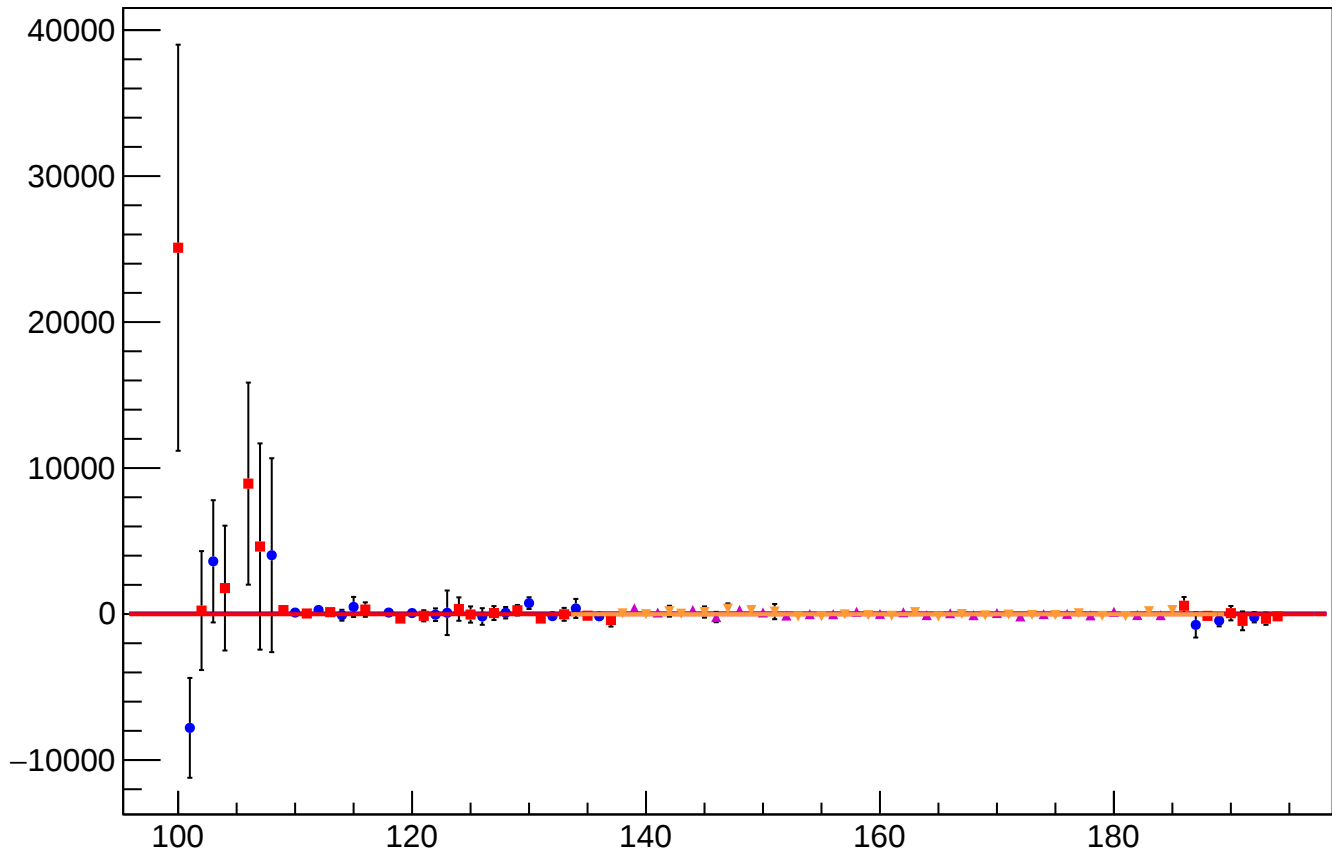
Right: 24.776 ± 0.004 $\chi^2/\text{NDF}: 91002.2/44$

In: 25.227 ± 0.004 $\chi^2/\text{NDF}: 70290.4/42$

Out: 25.251 ± 0.003 $\chi^2/\text{NDF}: 107710.3/49$

All: 25.240 ± 0.002 $\chi^2/\text{NDF}: 178026.1/92$

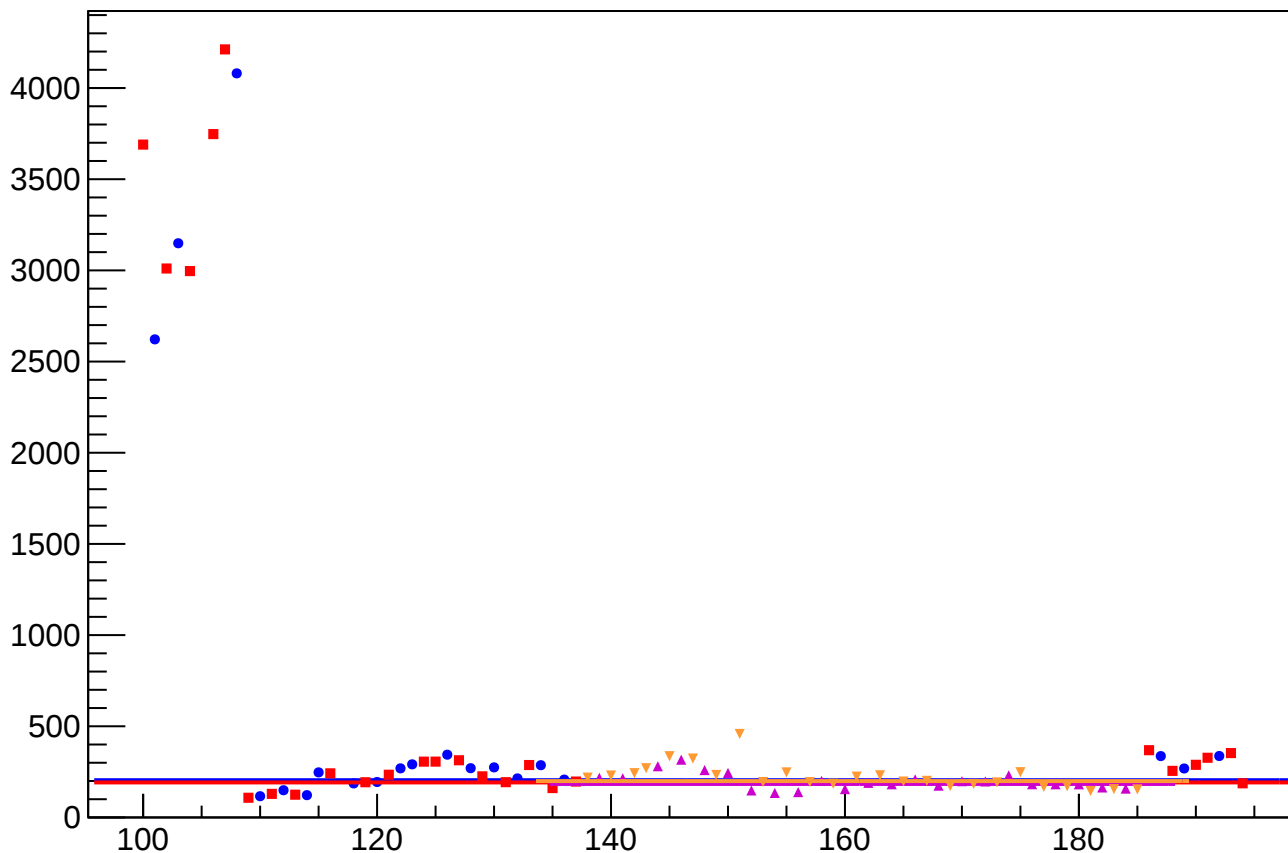
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 40.174+/-82.969 χ^2/NDF : 15.7/19
 Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24
 Right Out: -14.629+/-70.581 χ^2/NDF : 14.7/24
 Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47
 Right: 8.380+/-53.760 χ^2/NDF : 30.7/44
 In: 30.172+/-40.230 χ^2/NDF : 22.9/42
 Out: -12.450+/-39.839 χ^2/NDF : 22.7/49
 All: 8.653+/-28.308 χ^2/NDF : 46.2/92

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.237 $\pm$ 0.059 χ^2 /NDF: 3997742.3/19

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF:1877848.7/24

Right Out: 192.083 $\pm$ 0.050 χ^2 /NDF: 5057654.6/24

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF:1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

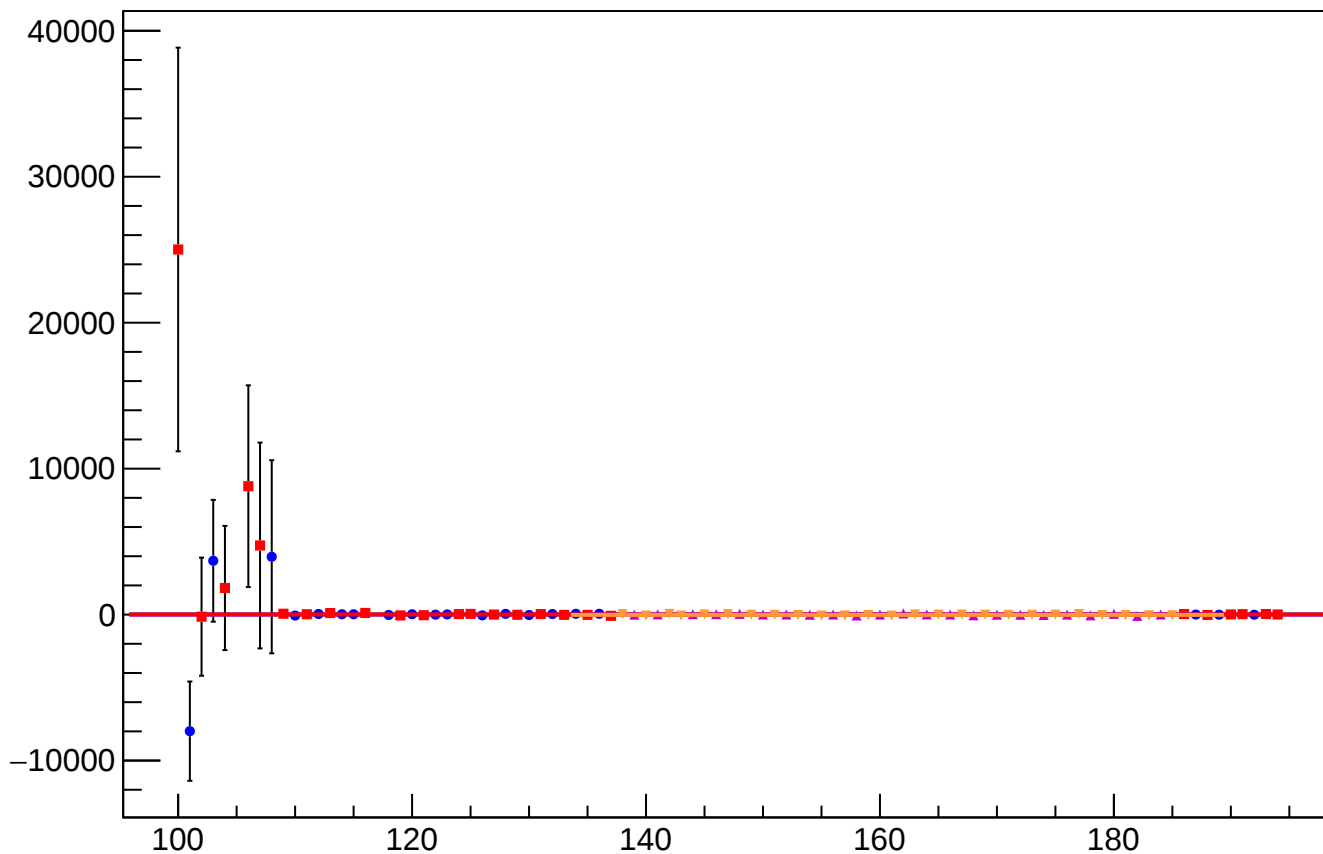
Right: 197.186 $\pm$ 0.038 χ^2 /NDF: 9080297.0/44

In: 188.609 $\pm$ 0.028 χ^2 /NDF:5503386.8/42

Out: 197.095 $\pm$ 0.028 χ^2 /NDF:6950302.2/49

All: 192.893 $\pm$ 0.020 χ^2 /NDF: 12498617.6/92

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.160+/-10.643 χ^2/NDF : 18.8/19

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 11.744+/-9.470 χ^2/NDF : 26.5/24

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

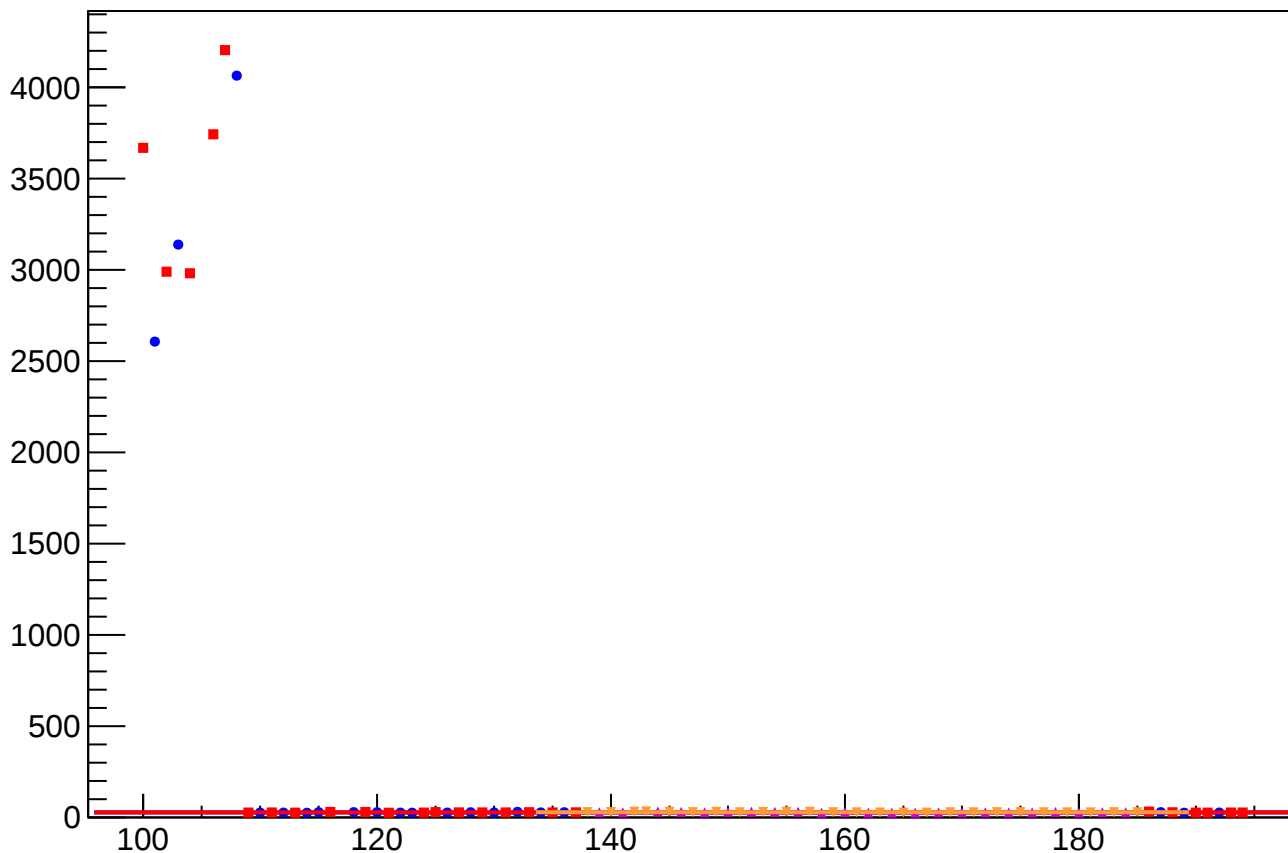
Right: 9.719+/-7.075 χ^2/NDF : 45.4/44

In: 3.014+/-5.794 χ^2/NDF : 51.0/42

Out: -8.149+/-5.471 χ^2/NDF : 54.9/49

All: -2.887+/-3.978 χ^2/NDF : 107.9/92

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.598 $\pm$ 0.008 χ^2 /NDF: 3033662.2/19

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.638 $\pm$ 0.007 χ^2 /NDF: 3499063.9/24

Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

Left: 28.685 $\pm$ 0.003 χ^2 /NDF: 234287.5/47

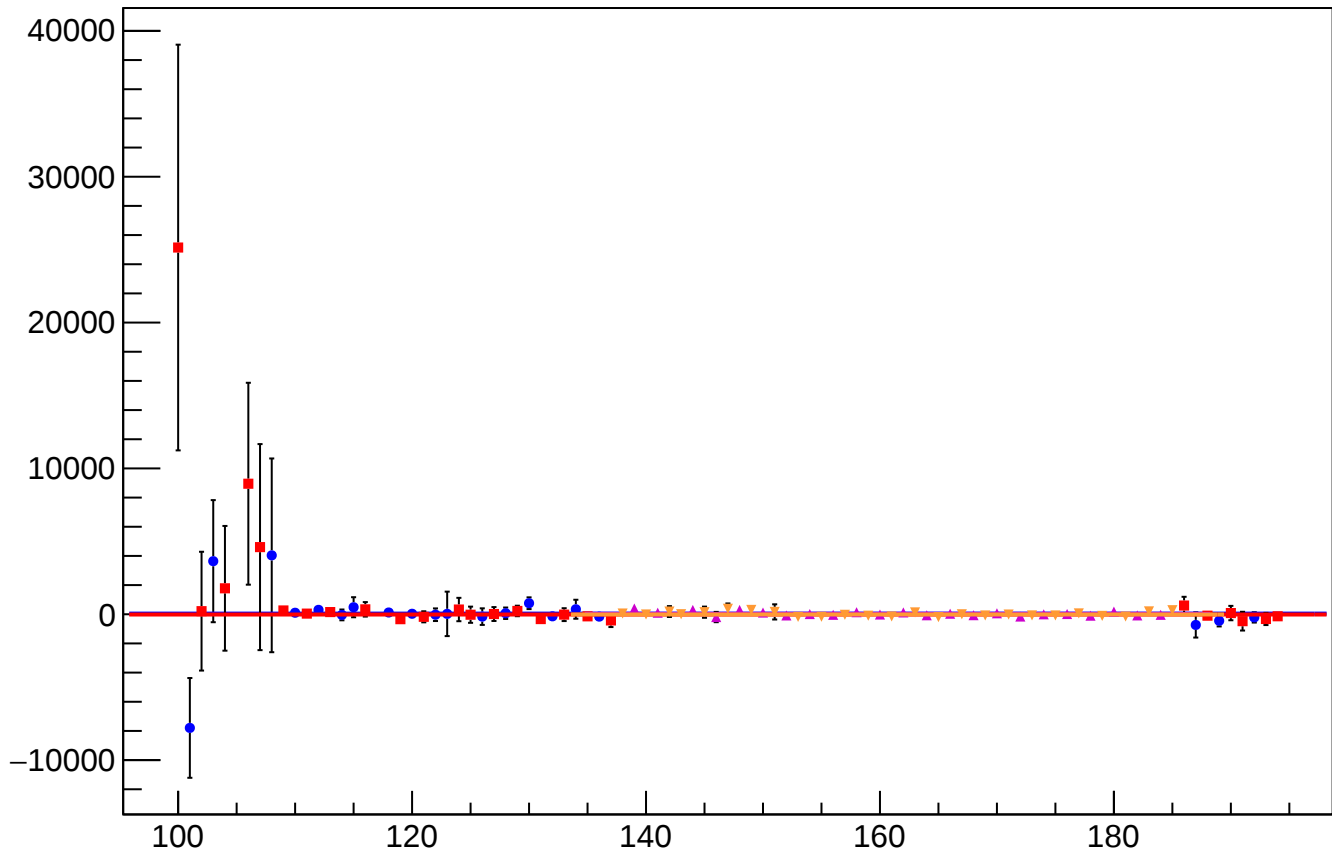
Right: 27.620 $\pm$ 0.005 χ^2 /NDF: 6532742.2/44

In: 28.357 $\pm$ 0.004 χ^2 /NDF: 3171946.8/42

Out: 28.341 $\pm$ 0.004 χ^2 /NDF: 3626089.0/49

All: 28.349 $\pm$ 0.003 χ^2 /NDF: 6798043.4/92

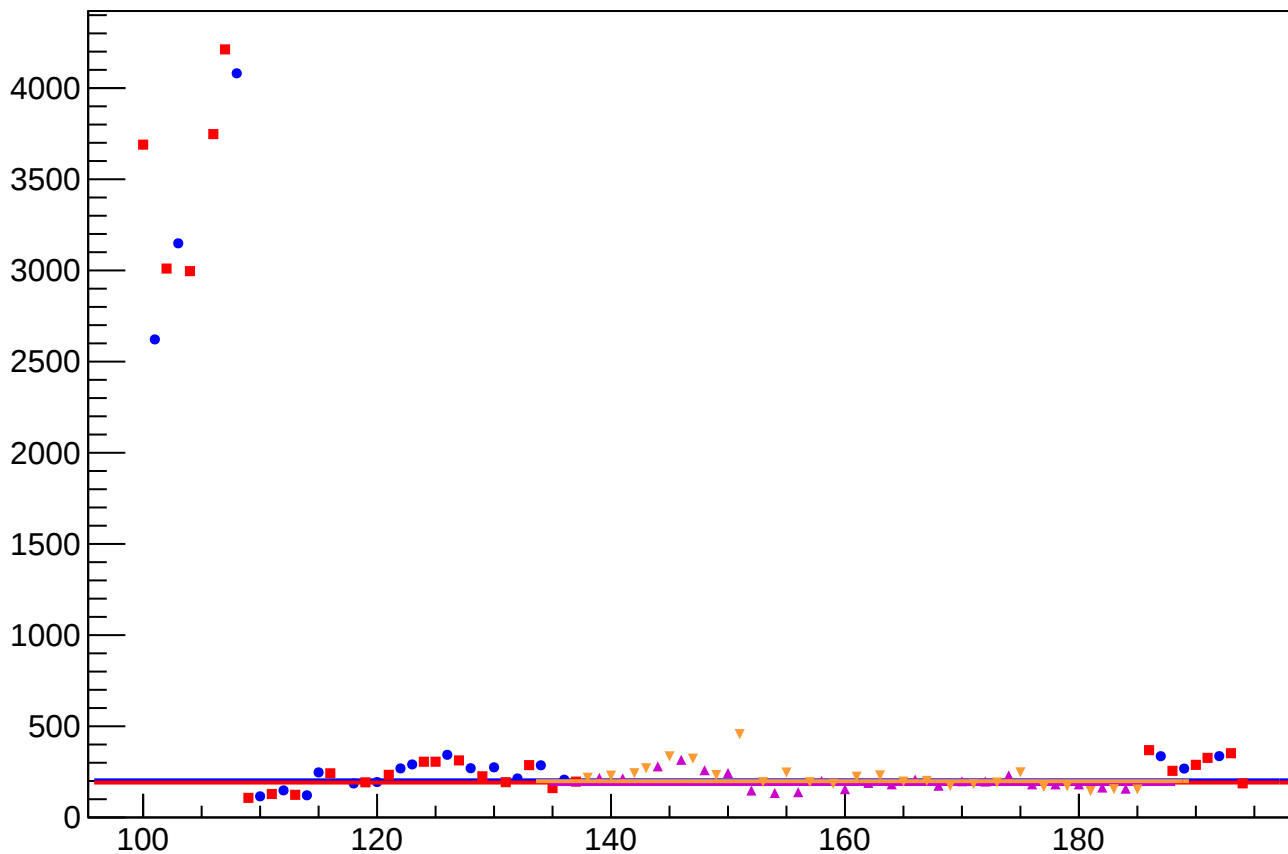
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 44.831+/-82.723 χ^2/NDF : 16.0/19
 Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24
 Right Out: -18.032+/-70.387 χ^2/NDF : 15.4/24
 Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47
 Right: 8.368+/-53.607 χ^2/NDF : 31.7/44
 In: 31.418+/-40.140 χ^2/NDF : 23.5/42
 Out: -15.202+/-39.744 χ^2/NDF : 24.2/49
 All: 7.876+/-28.242 χ^2/NDF : 48.3/92

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 203.513 $\pm$ 0.058 χ^2 /NDF: 4012319.7/19

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 191.446 $\pm$ 0.050 χ^2 /NDF: 5075802.8/24

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF:1412341.8/22

Left: 190.847 $\pm$ 0.023 χ^2 /NDF: 3399302.2/47

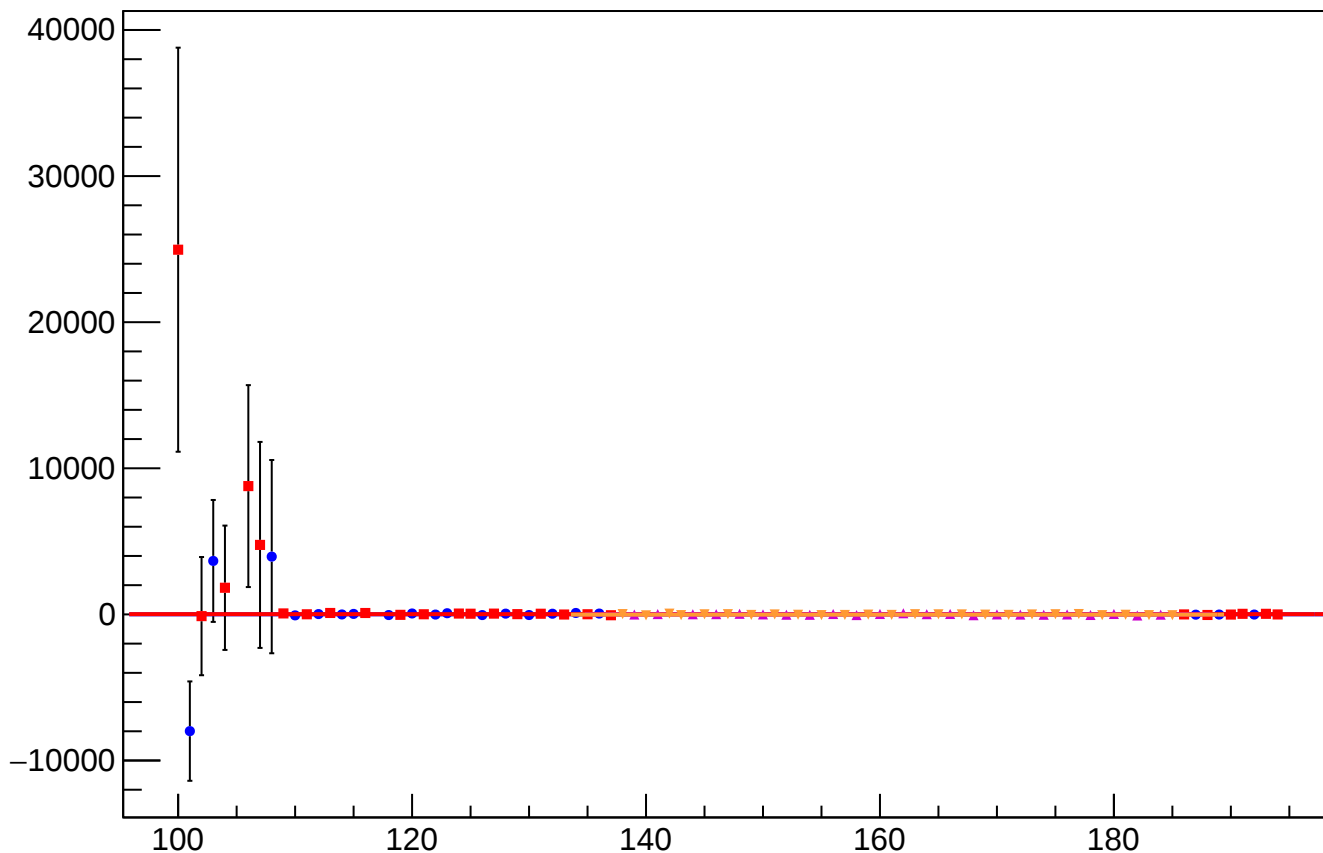
Right: 196.514 $\pm$ 0.038 χ^2 /NDF: 9112810.0/44

In: 188.168 $\pm$ 0.028 χ^2 /NDF:5514684.2/42

Out: 196.589 $\pm$ 0.028 χ^2 /NDF:6969116.3/49

All: 192.420 $\pm$ 0.020 χ^2 /NDF: 12528254.1/92

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.478+/-10.693 χ^2/NDF : 23.2/19

Left Out: -15.829+/-6.733 χ^2/NDF :16.5/24

Right Out: 16.892+/-9.506 χ^2/NDF : 22.3/24

Left In: -0.498+/-6.937 χ^2/NDF :26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

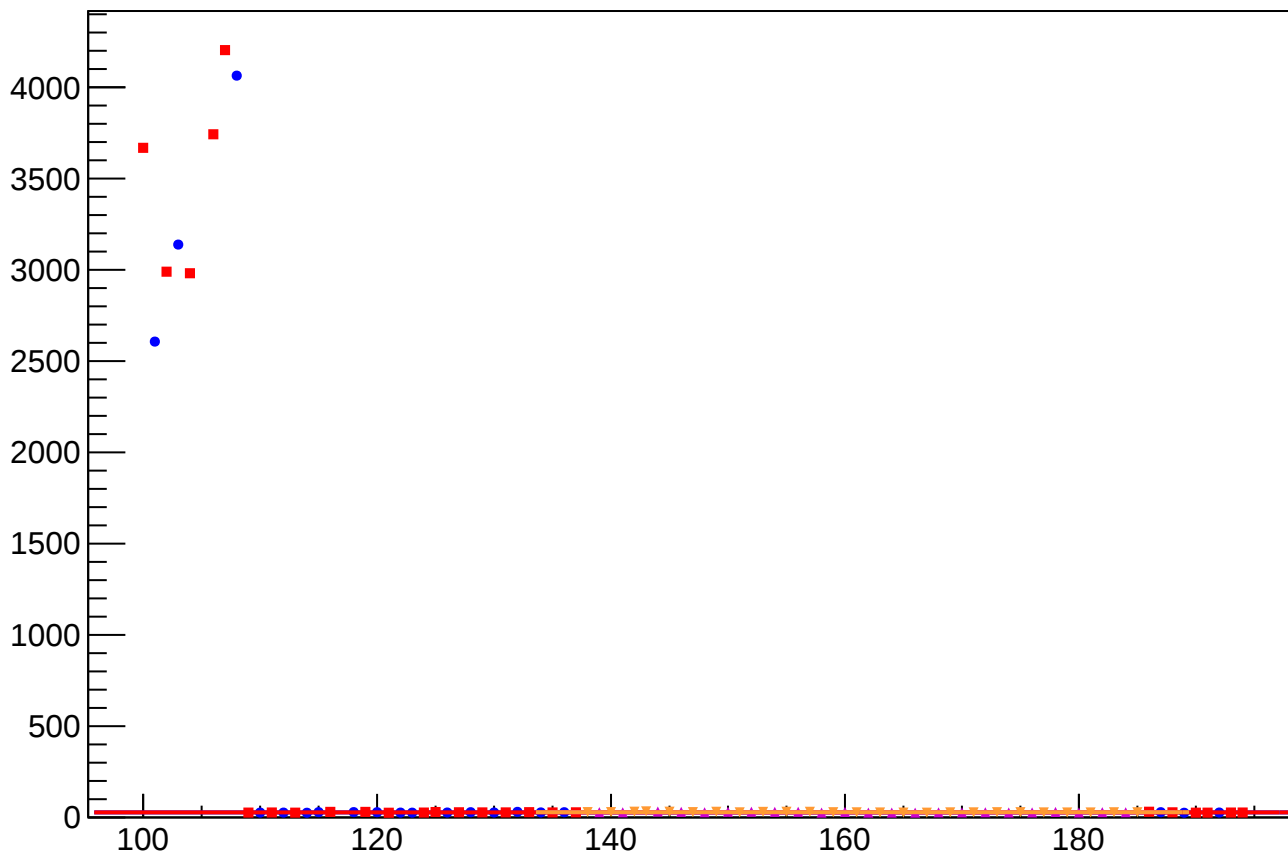
Right: 11.412+/-7.105 χ^2/NDF : 46.3/44

In: 0.976+/-5.820 χ^2/NDF :49.4/42

Out: -4.898+/-5.495 χ^2/NDF :46.7/49

All: -2.129+/-3.995 χ^2/NDF : 96.7/92

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.723+/-0.008 χ^2 /NDF: 3035896.6/19

Left Out: 28.814+/-0.005 χ^2 /NDF:122153.6/24

Right Out: 27.745+/-0.007 χ^2 /NDF: 3497236.0/24

Left In: 28.797+/-0.005 χ^2 /NDF:128279.2/22

Left: 28.806+/-0.003 χ^2 /NDF: 250439.0/47

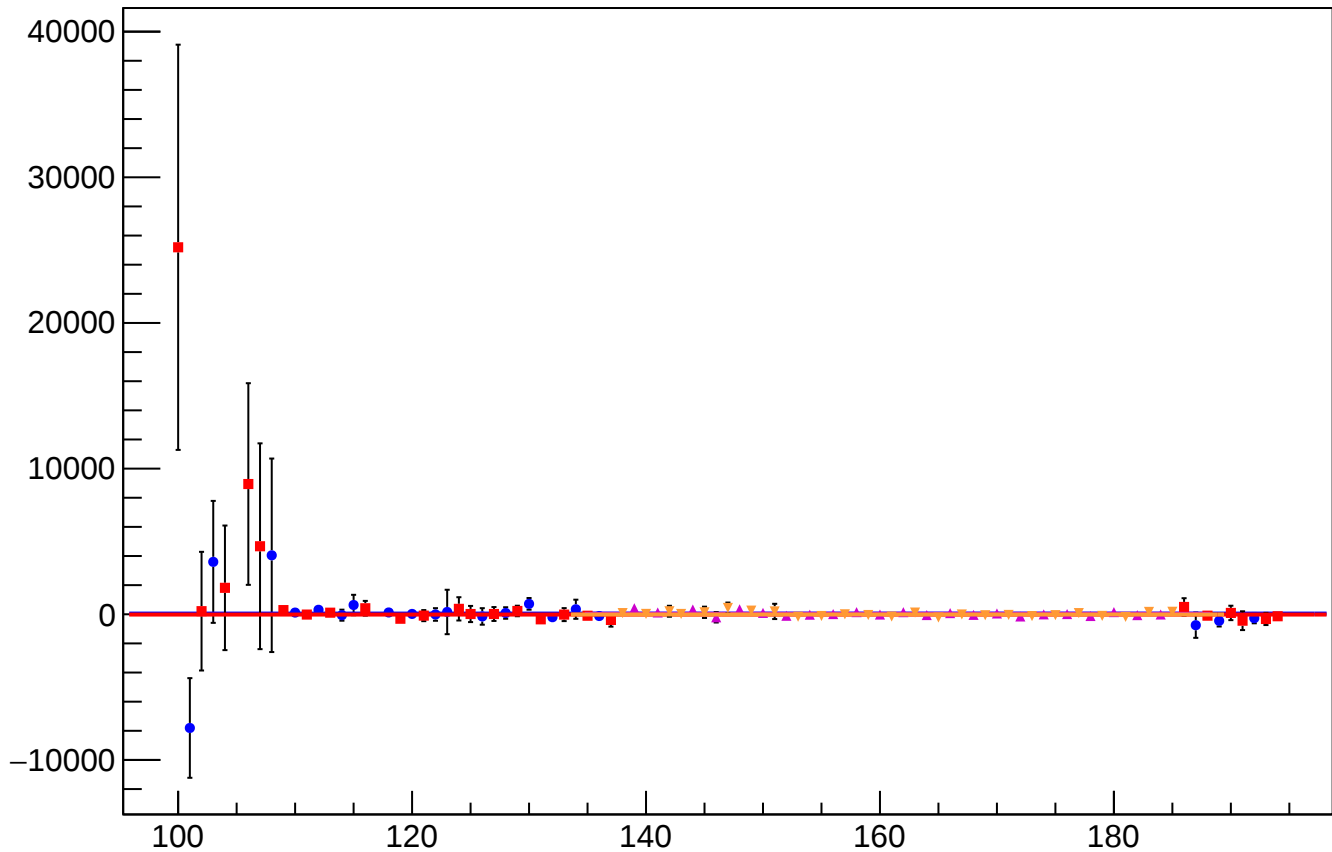
Right: 27.735+/-0.005 χ^2 /NDF: 6533137.1/44

In: 28.479+/-0.004 χ^2 /NDF:3178378.4/42

Out: 28.457+/-0.004 χ^2 /NDF:3636248.4/49

All: 28.467+/-0.003 χ^2 /NDF: 6814642.1/92

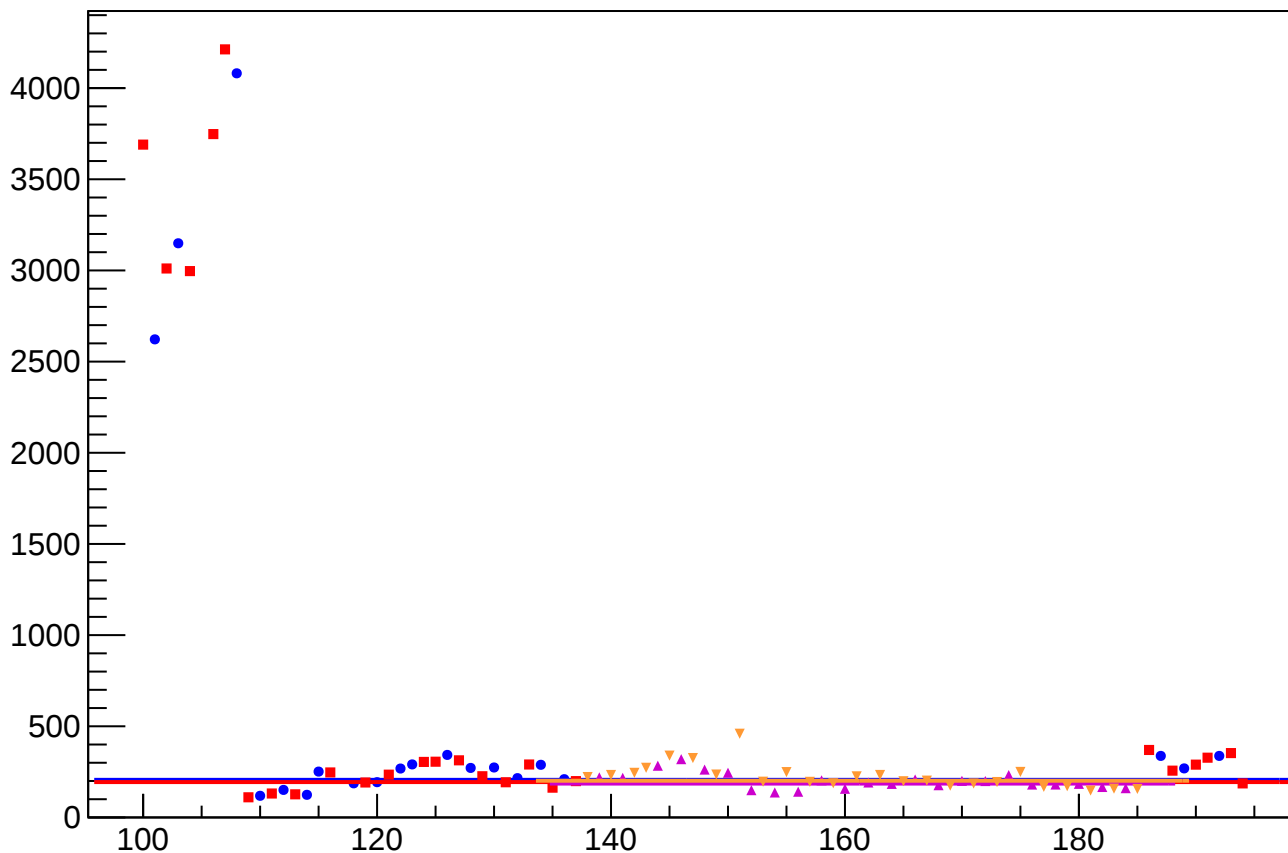
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.005+/-83.625 χ^2/NDF : 16.2/19
 Left Out: -13.966+/-48.735 χ^2/NDF : 8.1/24
 Right Out: -19.669+/-71.141 χ^2/NDF : 14.5/24
 Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47
 Right: 8.745+/-54.186 χ^2/NDF : 31.0/44
 In: 35.378+/-40.628 χ^2/NDF : 24.0/42
 Out: -15.787+/-40.206 χ^2/NDF : 22.6/49
 All: 9.528+/-28.578 χ^2/NDF : 47.5/92

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.233+/-0.059 χ^2/NDF : 3951193.5/19

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 194.048+/-0.050 χ^2/NDF : 4994839.5/24

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

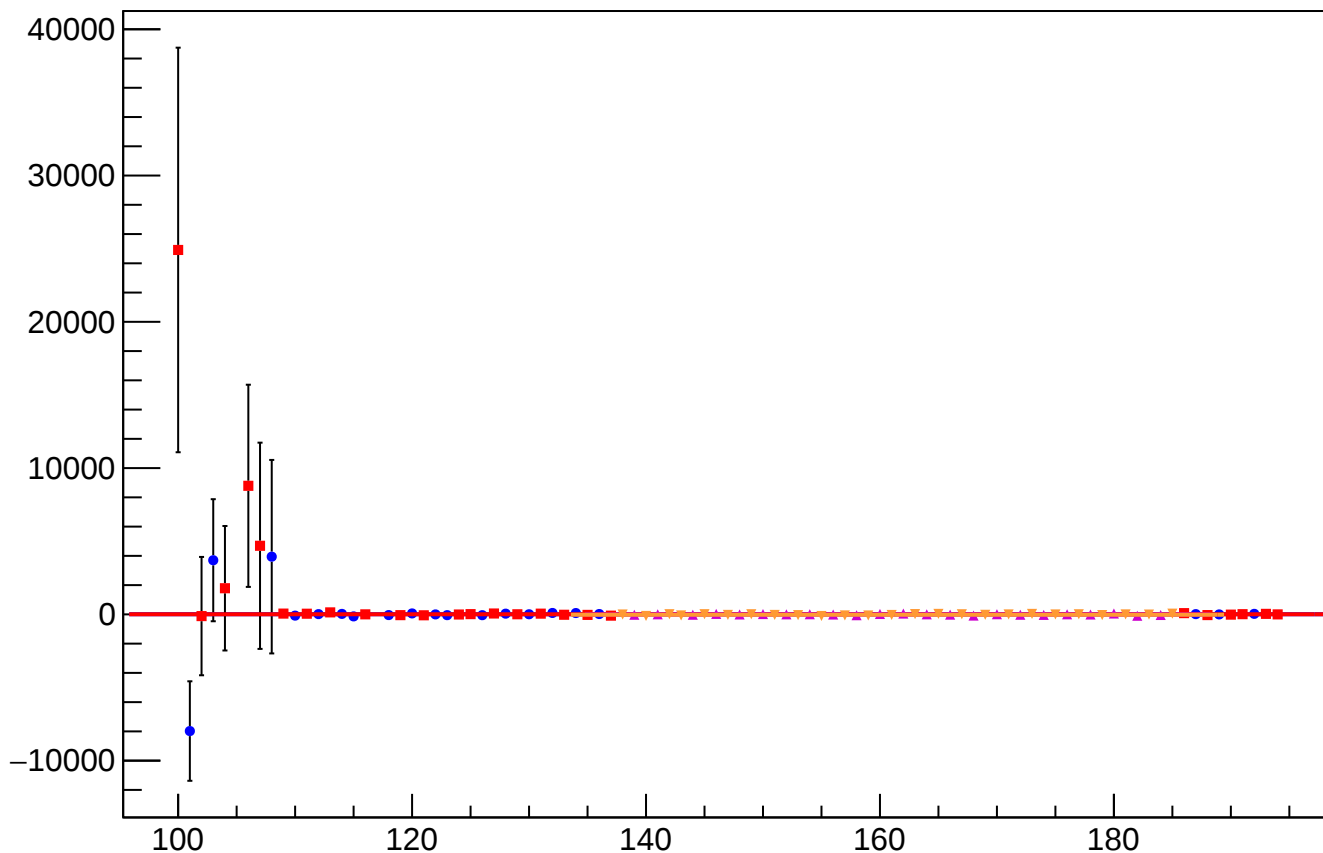
Right: 199.164+/-0.038 χ^2/NDF : 8970666.6/44

In: 190.683+/-0.029 χ^2/NDF : 5422593.5/42

Out: 199.122+/-0.028 χ^2/NDF : 6864690.6/49

All: 194.947+/-0.020 χ^2/NDF : 12330878.3/92

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.852 ± 13.057 χ^2/NDF : 20.8/19

Left Out: -24.144 ± 8.076 χ^2/NDF : 24.9/24

Right Out: 7.878 ± 11.576 χ^2/NDF : 26.0/24

Left In: -5.924 ± 8.340 χ^2/NDF : 21.0/22

Left: -15.326 ± 5.802 χ^2/NDF : 48.4/47

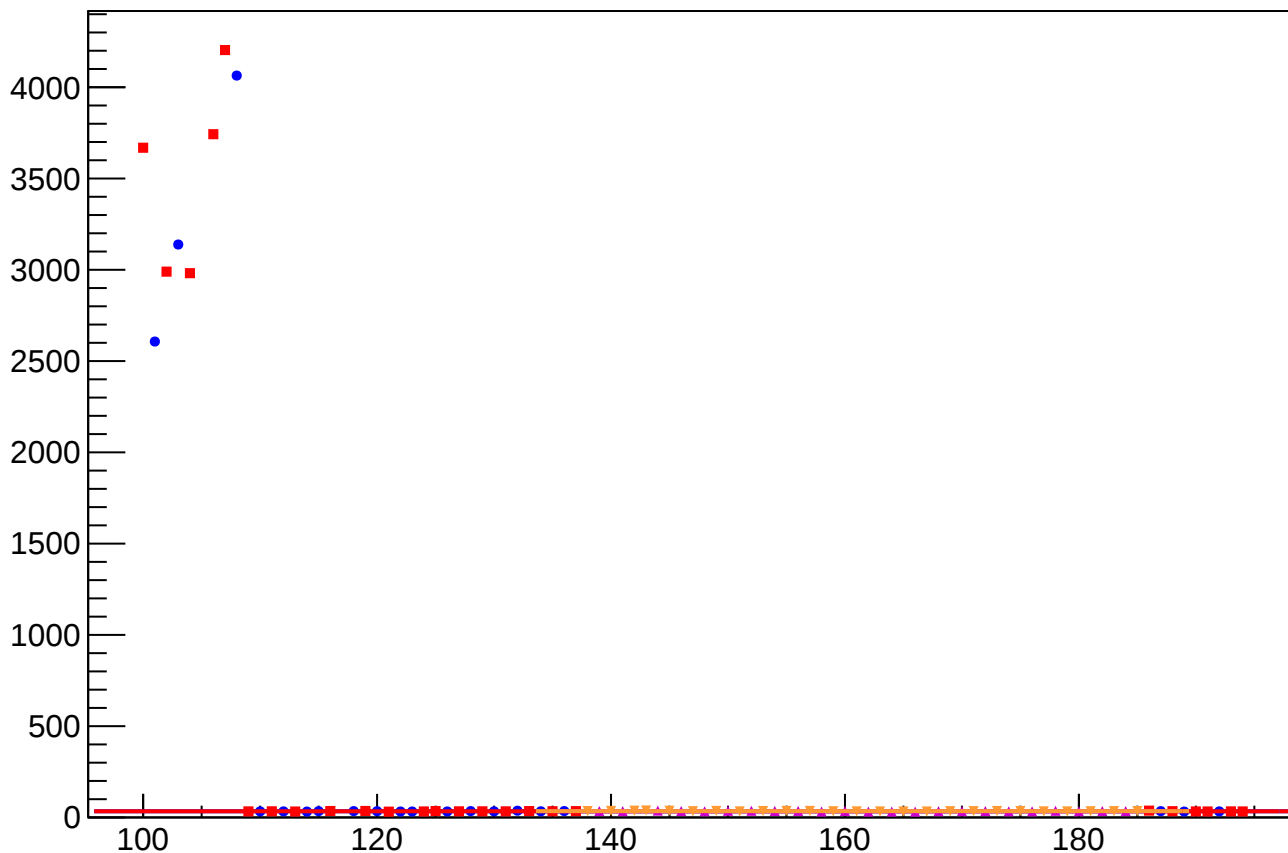
Right: 8.747 ± 8.662 χ^2/NDF : 46.8/44

In: -1.352 ± 7.028 χ^2/NDF : 42.8/42

Out: -13.660 ± 6.624 χ^2/NDF : 56.0/49

All: -7.871 ± 4.820 χ^2/NDF : 100.5/92

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.888 $\pm$ 0.009 χ^2 /NDF: 3010321.1/19

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.853 $\pm$ 0.008 χ^2 /NDF: 3462128.6/24

Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 117764.0/47

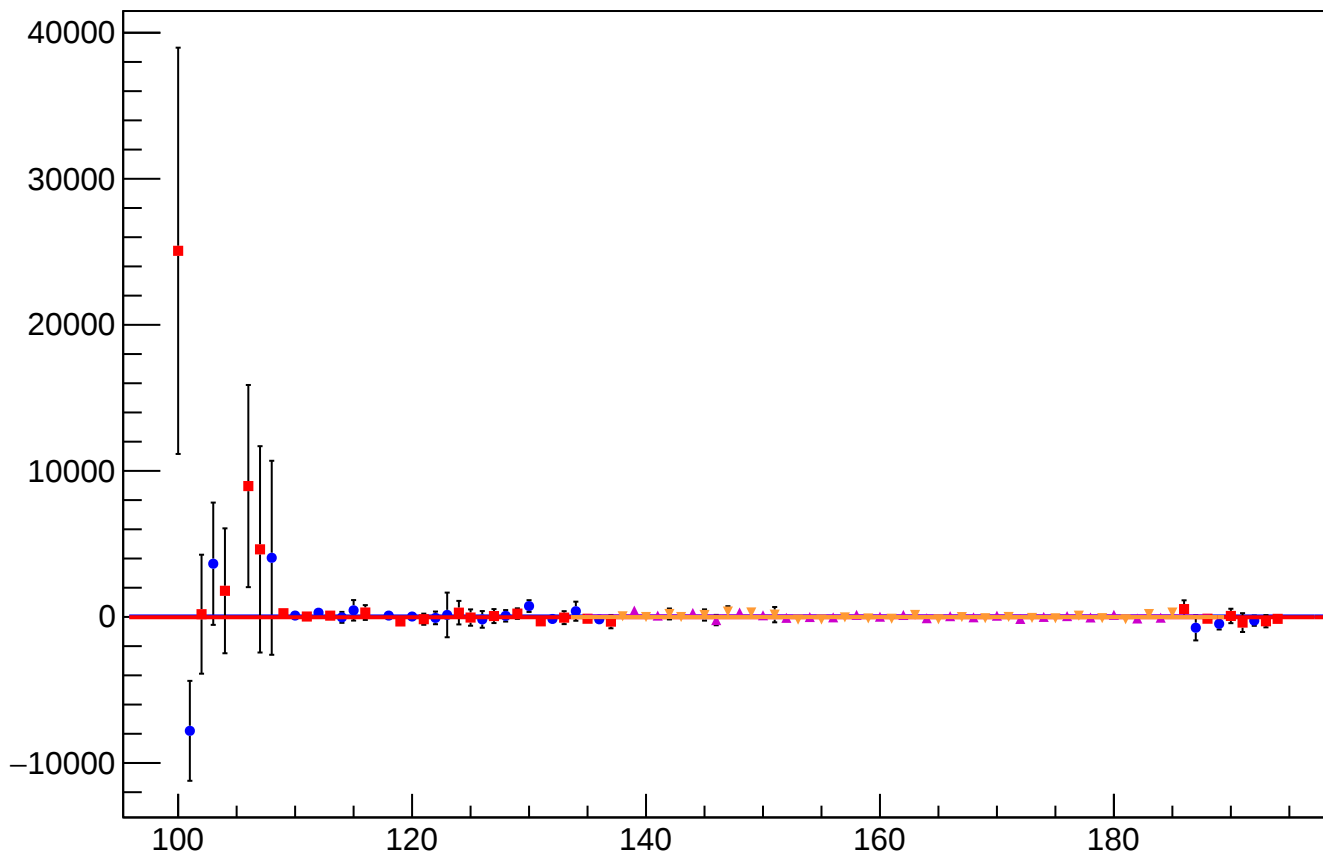
Right: 33.869 $\pm$ 0.006 χ^2 /NDF: 6472457.5/44

In: 34.452 $\pm$ 0.005 χ^2 /NDF: 3075403.2/42

Out: 34.367 $\pm$ 0.005 χ^2 /NDF: 3525856.1/49

All: 34.407 $\pm$ 0.003 χ^2 /NDF: 6601412.1/92

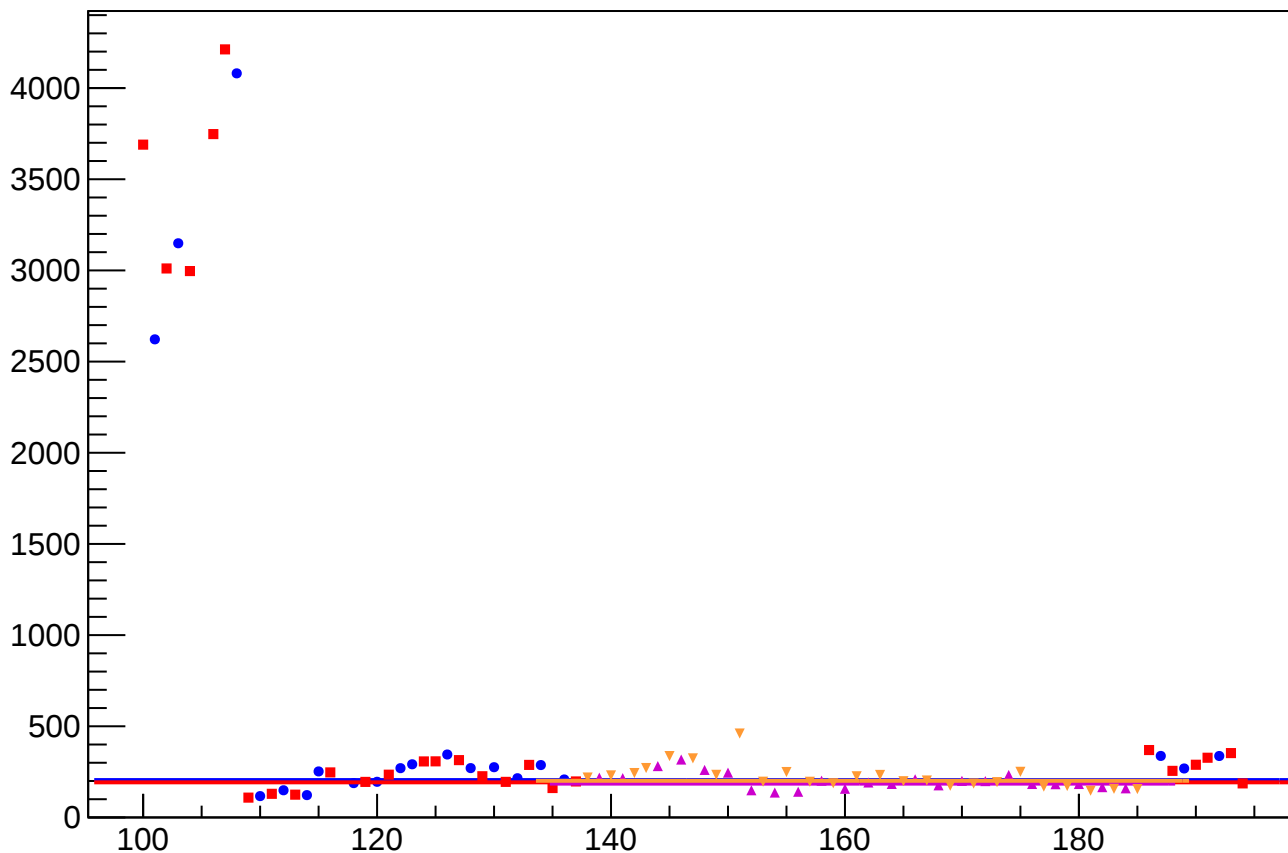
asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 34.859+/-83.243 χ^2/NDF : 16.0/19
 Left Out: -7.558+/-48.662 χ^2/NDF : 8.8/24
 Right Out: -22.404+/-70.773 χ^2/NDF : 13.2/24
 Left In: 34.977+/-46.421 χ^2/NDF : 7.1/22

Left: 14.712+/-33.589 χ^2/NDF : 16.3/47
 Right: 1.621+/-53.919 χ^2/NDF : 29.5/44
 In: 34.949+/-40.543 χ^2/NDF : 23.1/42
 Out: -12.324+/-40.098 χ^2/NDF : 22.0/49
 All: 11.052+/-28.510 χ^2/NDF : 45.8/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.944 $\pm$ 0.059 χ^2 /NDF: 3995371.9/19

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 192.645 $\pm$ 0.050 χ^2 /NDF: 5054910.7/24

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

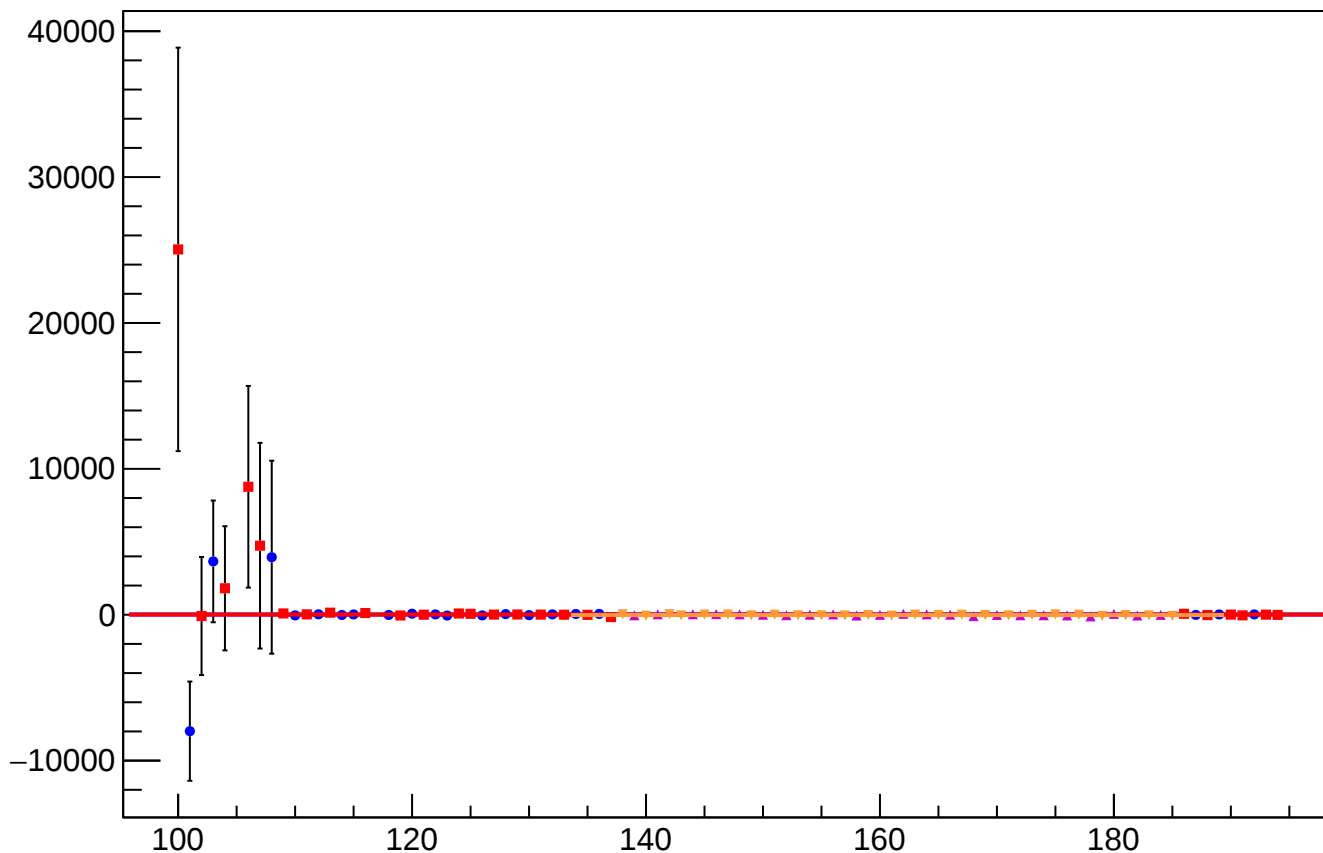
Right: 197.806 $\pm$ 0.038 χ^2 /NDF: 9075624.3/44

In: 190.210 $\pm$ 0.029 χ^2 /NDF:5448936.0/42

Out: 198.453 $\pm$ 0.028 χ^2 /NDF:6923181.3/49

All: 194.377 $\pm$ 0.020 χ^2 /NDF: 12413912.6/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 15.576+/-11.845 χ^2/NDF : 15.0/19

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 11.681+/-10.508 χ^2/NDF : 31.4/24

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

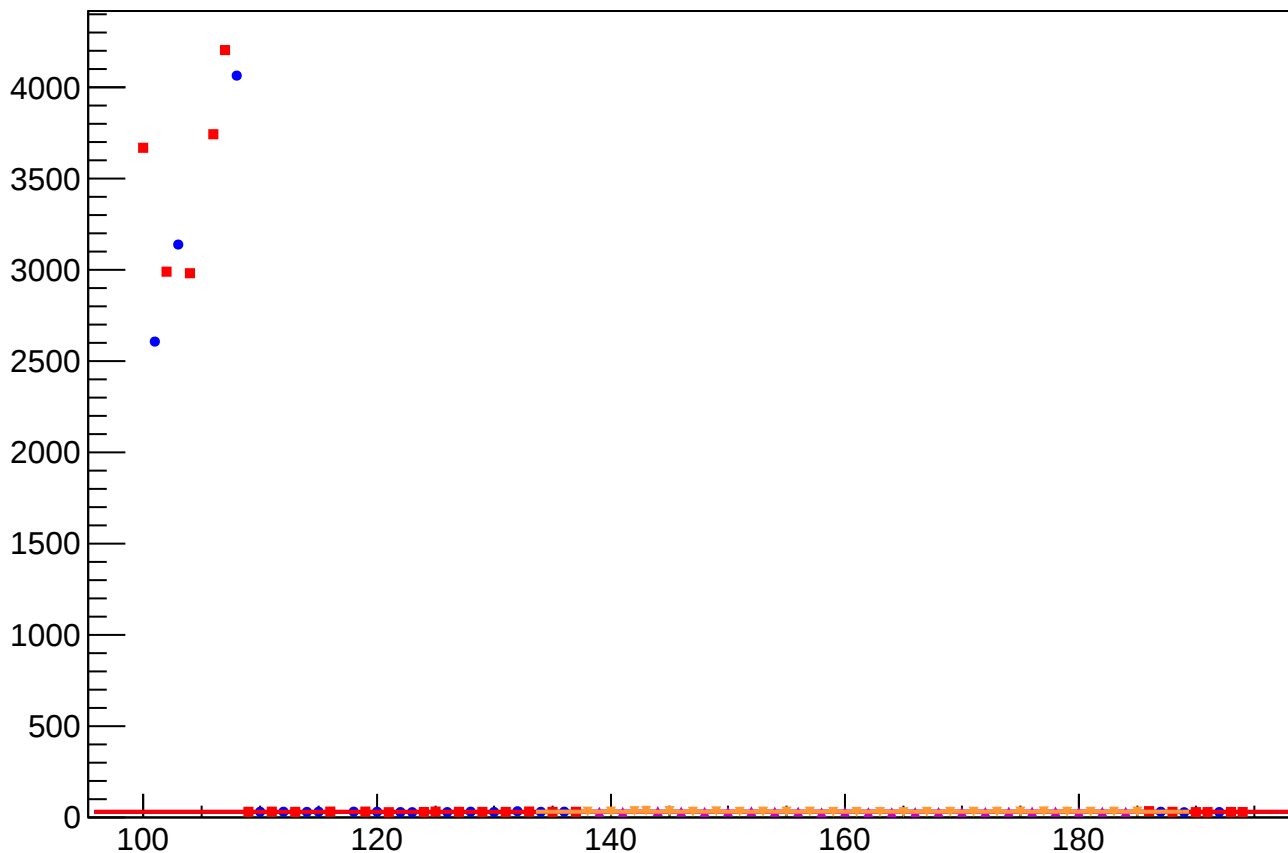
Right: 13.397+/-7.861 χ^2/NDF : 46.4/44

In: -0.009+/-6.383 χ^2/NDF :56.1/42

Out: -11.818+/-6.024 χ^2/NDF :57.2/49

All: -6.254+/-4.381 χ^2/NDF : 115.1/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.734+/-0.008 χ^2/NDF : 3023840.0/19

Left Out: 31.488+/-0.005 χ^2/NDF : 81938.2/24

Right Out: 30.698+/-0.007 χ^2/NDF : 3475575.0/24

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

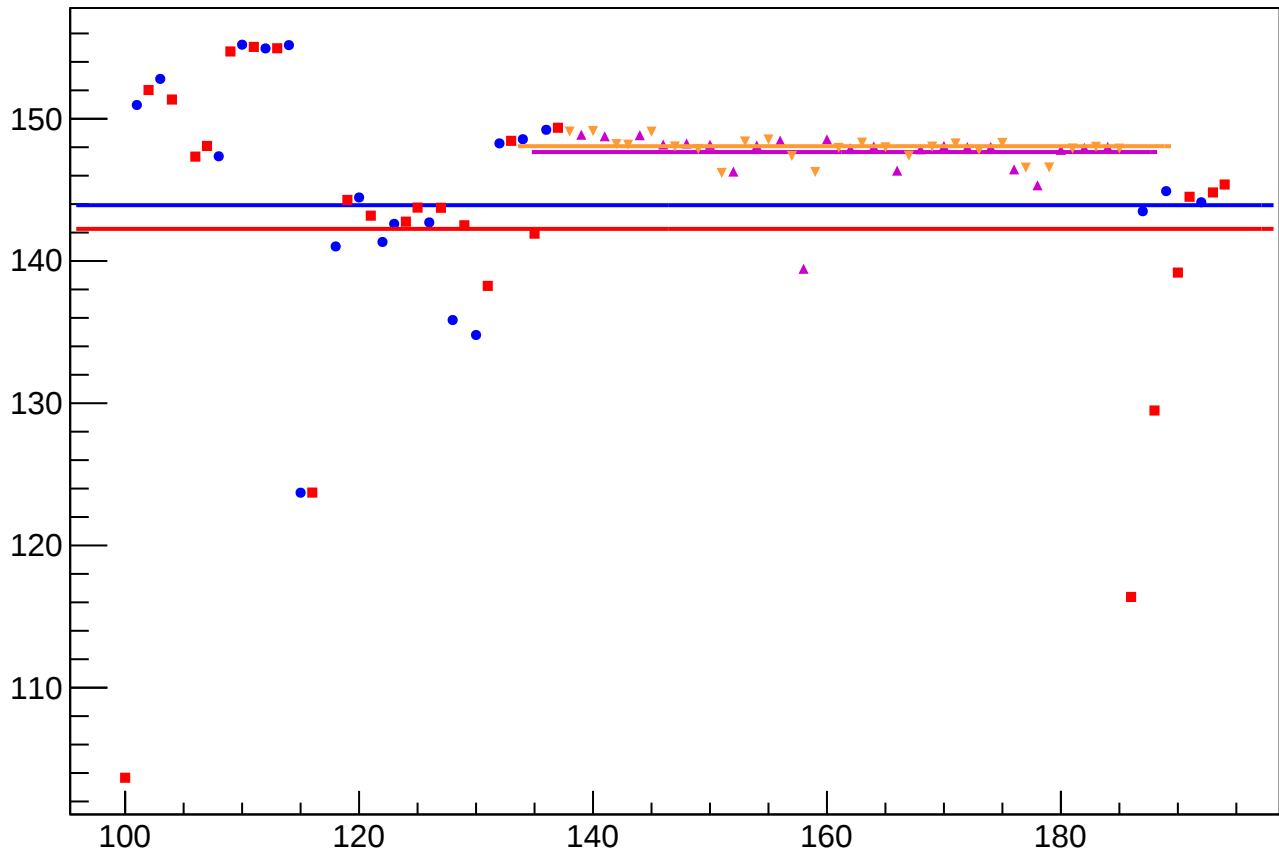
Right: 30.714+/-0.006 χ^2/NDF : 6499425.3/44

In: 31.260+/-0.005 χ^2/NDF : 3117193.2/42

Out: 31.229+/-0.004 χ^2/NDF : 3565107.2/49

All: 31.244+/-0.003 χ^2/NDF : 6682326.1/92

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.925+/-0.000 χ^2/NDF : 3451946133.2/19

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.259+/-0.000 χ^2/NDF : 7307194215.2/24

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

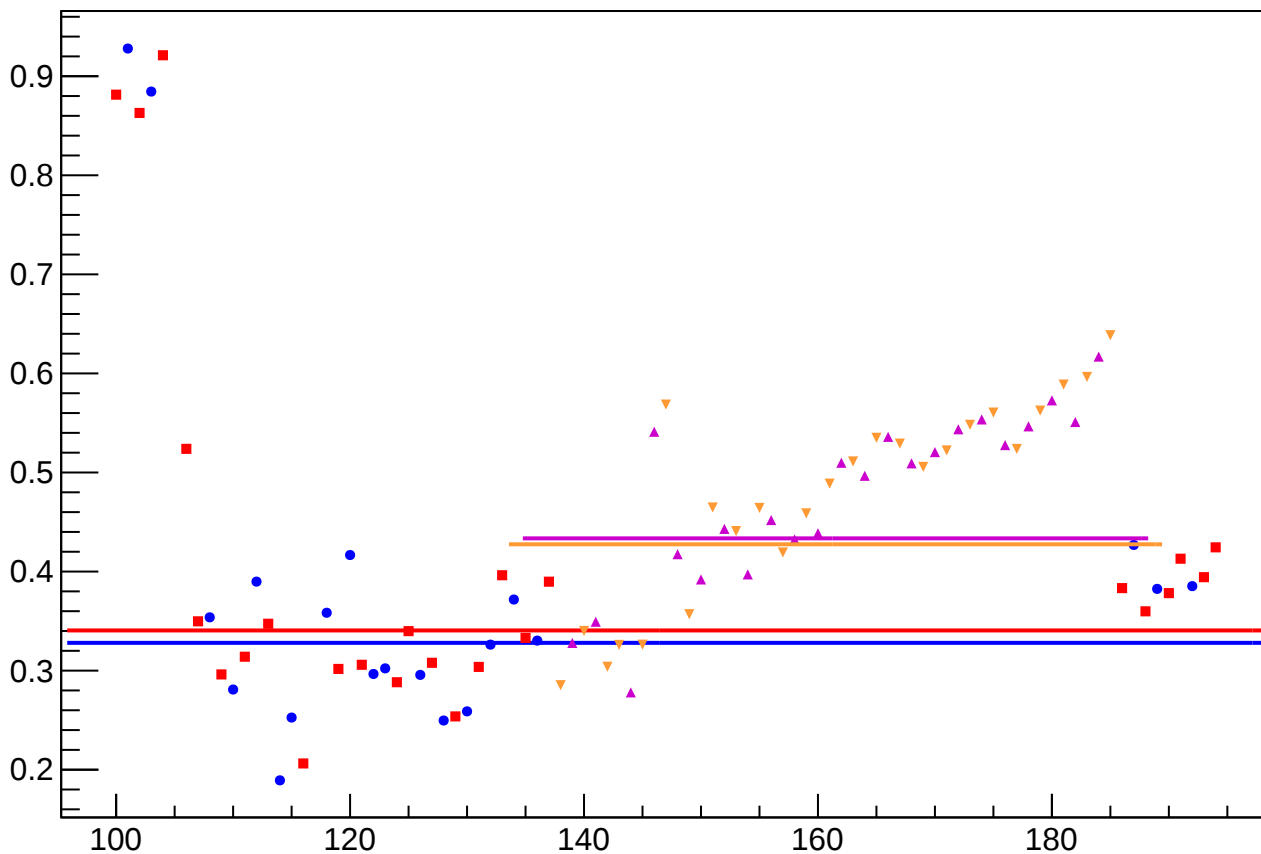
Right: 143.015+/-0.000 χ^2/NDF : 10857721212.2/44

In: 146.050+/-0.000 χ^2/NDF : 4312351764.7/42

Out: 145.409+/-0.000 χ^2/NDF : 8808061600.9/49

All: 145.709+/-0.000 χ^2/NDF : 13153409084.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.328+/-0.000 χ^2/NDF : 1357928.1/19

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.341+/-0.000 χ^2/NDF : 1381505.0/24

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

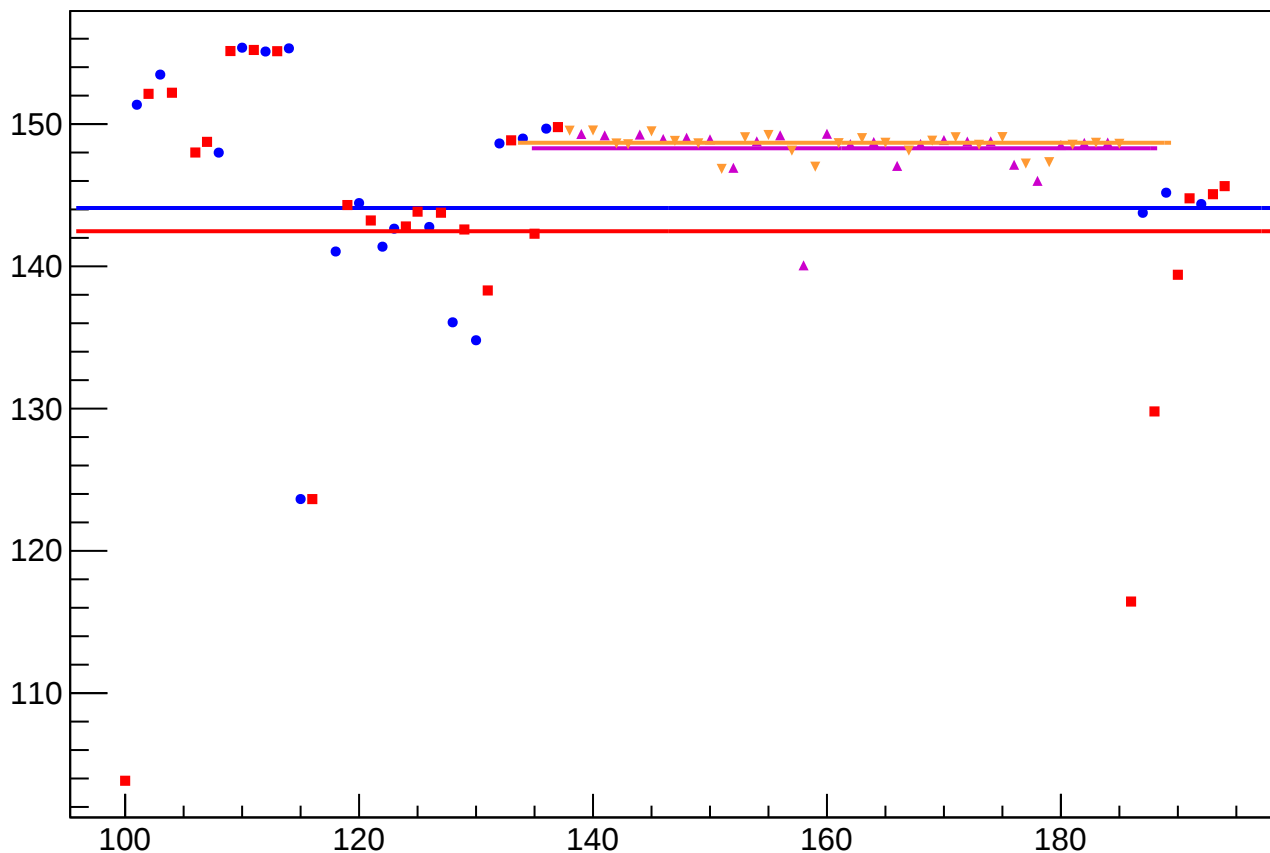
Right: 0.335+/-0.000 χ^2/NDF : 2750586.9/44

In: 0.388+/-0.000 χ^2/NDF :3660646.2/42

Out: 0.388+/-0.000 χ^2/NDF :3916245.3/49

All: 0.388+/-0.000 χ^2/NDF : 7576915.4/92

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.101+/-0.000 χ^2/NDF : 3496638734.2/19

Left Out: 148.687+/-0.000 χ^2/NDF : 52285197.5/24

Right Out: 142.468+/-0.000 χ^2/NDF : 7252088314.3/24

Left In: 148.298+/-0.000 χ^2/NDF : 332527463.6/22

Left: 148.500+/-0.000 χ^2/NDF : 391414535.1/47

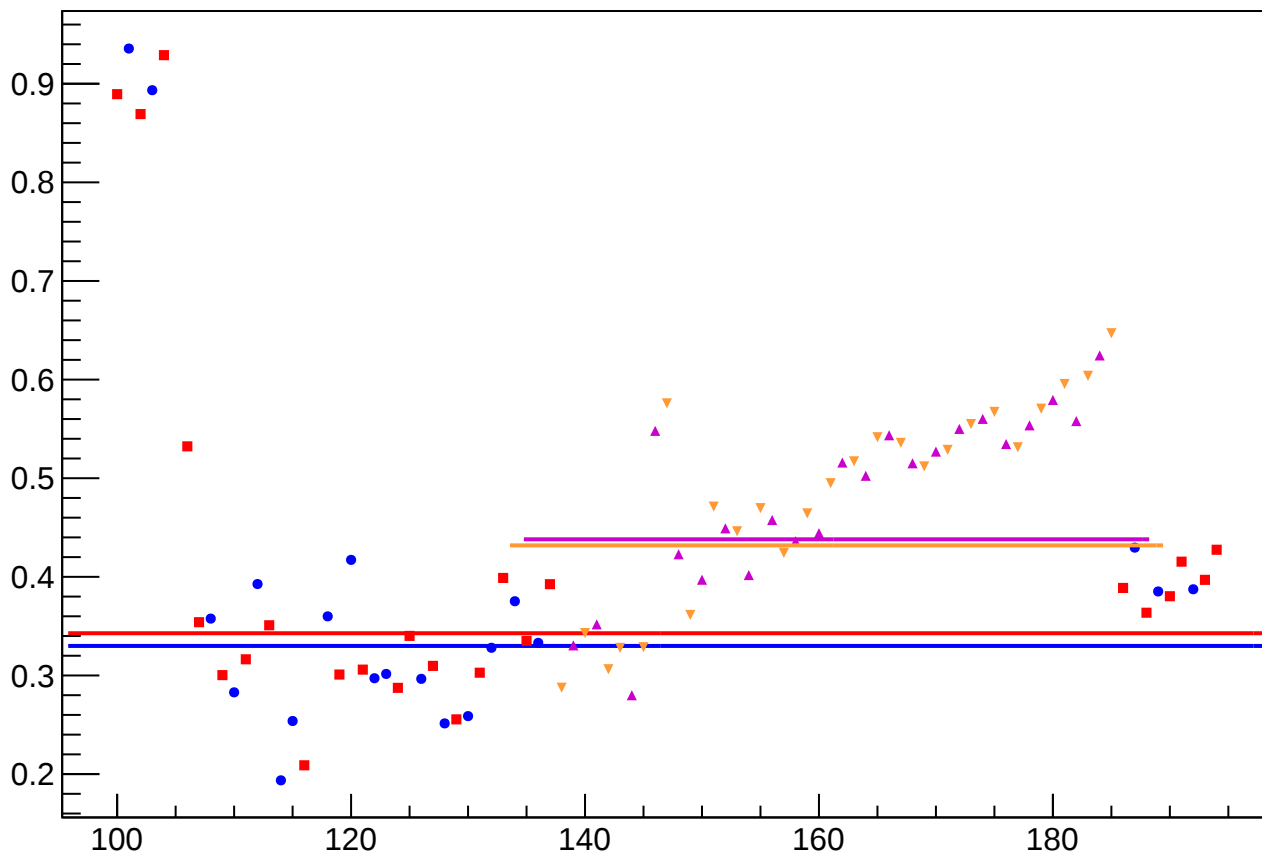
Right: 143.209+/-0.000 χ^2/NDF : 10842335216.9/44

In: 146.478+/-0.000 χ^2/NDF : 4470779636.4/42

Out: 145.824+/-0.000 χ^2/NDF : 8918410414.3/49

All: 146.131+/-0.000 χ^2/NDF : 13422917231.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2/NDF : 1359691.0/19

Left Out: 0.432 $\pm$ 0.000 χ^2/NDF :1924979.0/24

Right Out: 0.343 $\pm$ 0.000 χ^2/NDF : 1386683.9/24

Left In: 0.438 $\pm$ 0.000 χ^2/NDF :1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2/NDF : 3432903.3/47

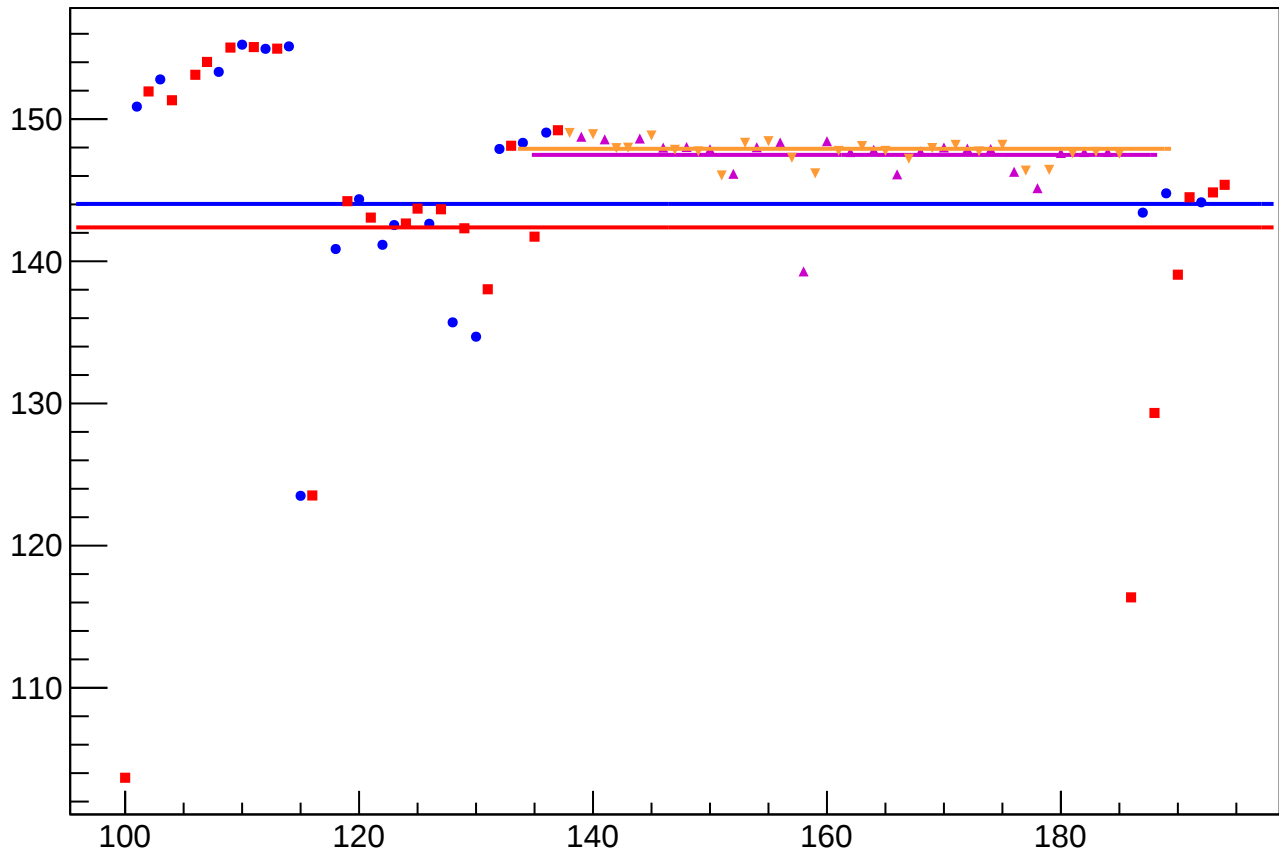
Right: 0.337 $\pm$ 0.000 χ^2/NDF : 2758018.3/44

In: 0.391 $\pm$ 0.000 χ^2/NDF :3715783.3/42

Out: 0.391 $\pm$ 0.000 χ^2/NDF :3974165.0/49

All: 0.391 $\pm$ 0.000 χ^2/NDF : 7689961.4/92

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.034 $\pm$ 0.000 χ^2 /NDF: 3663911746.4/19

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.383 $\pm$ 0.000 χ^2 /NDF: 7696257312.9/24

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

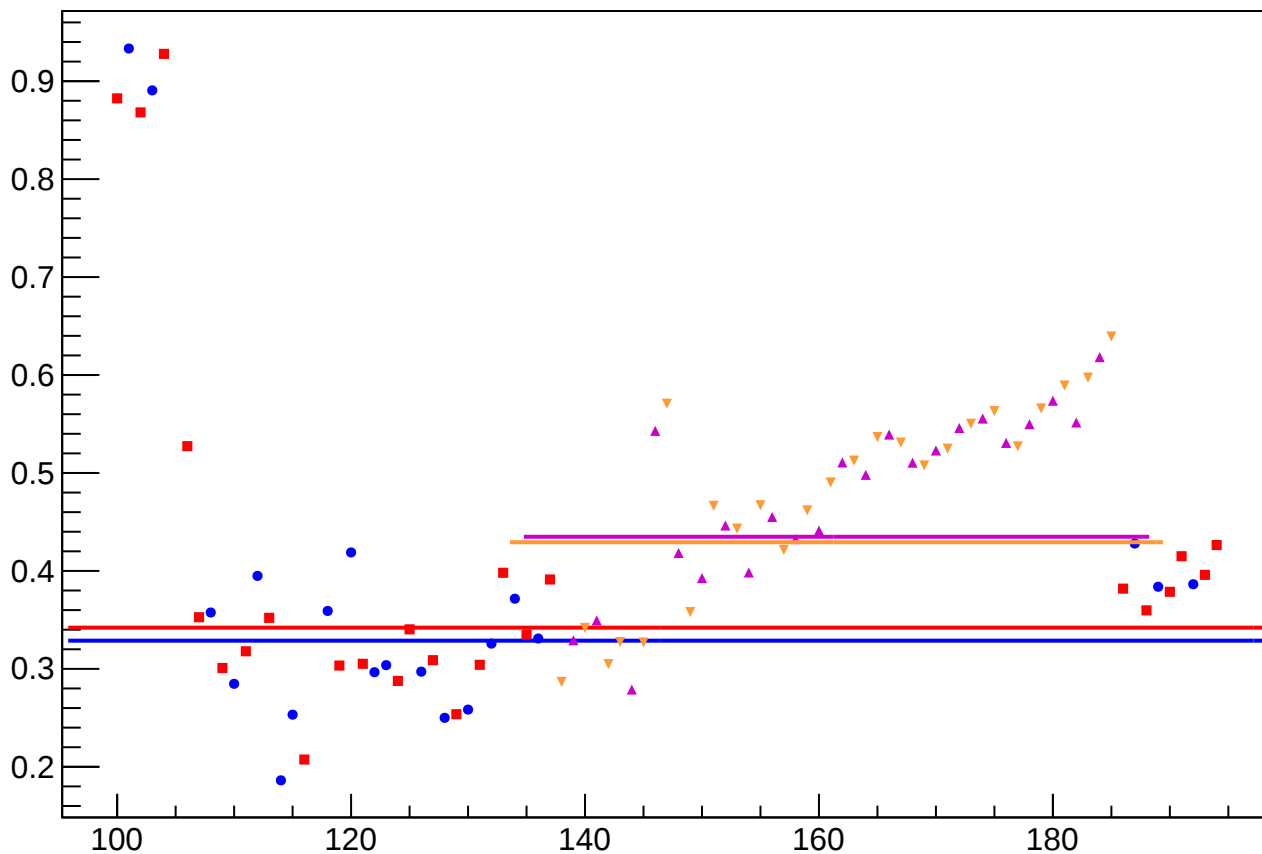
Right: 143.133 $\pm$ 0.000 χ^2 /NDF: 11456375652.8/44

In: 145.996 $\pm$ 0.000 χ^2 /NDF: 4444123467.2/42

Out: 145.378 $\pm$ 0.000 χ^2 /NDF: 9047273869.2/49

All: 145.668 $\pm$ 0.000 χ^2 /NDF: 13521792623.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2 /NDF: 1373310.0/19

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.342 $\pm$ 0.000 χ^2 /NDF: 1382876.4/24

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3380372.0/47

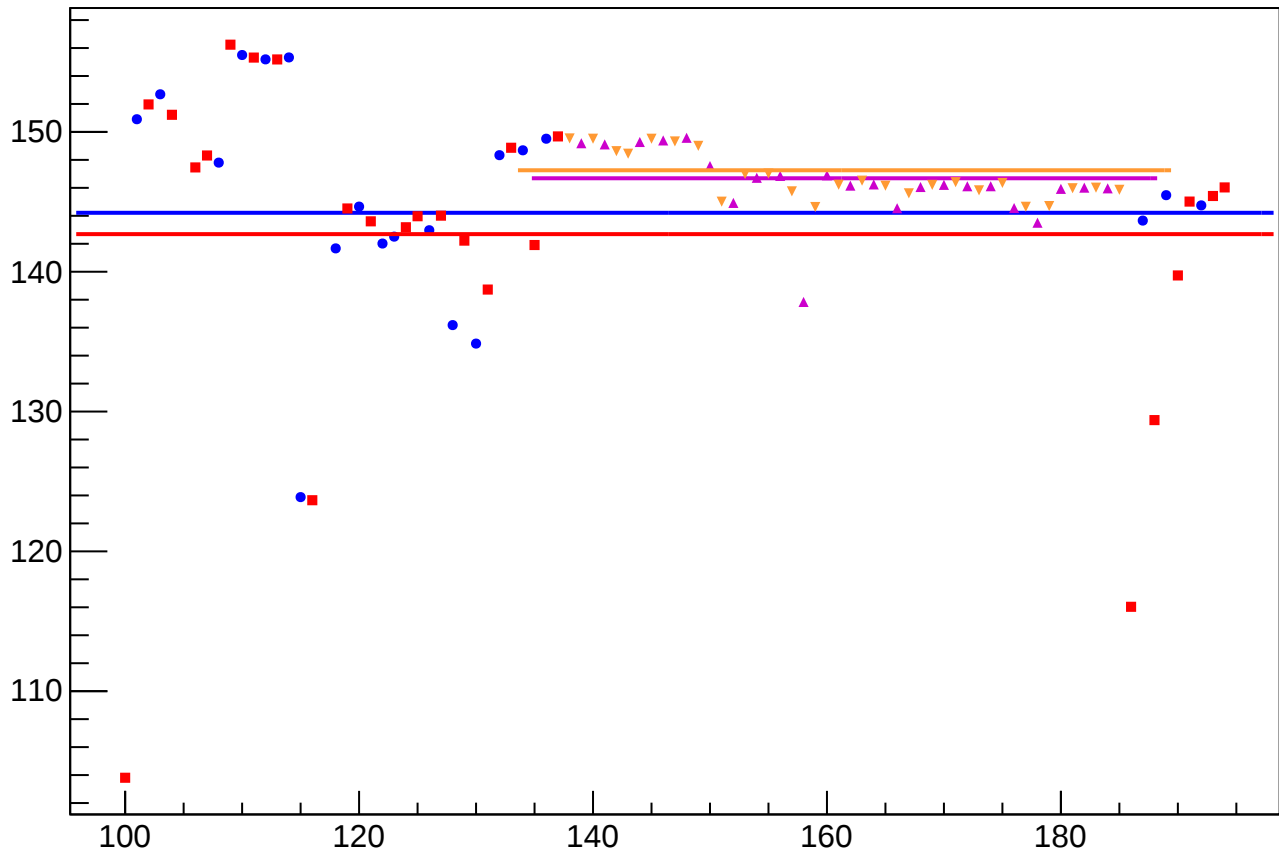
Right: 0.336 $\pm$ 0.000 χ^2 /NDF: 2768645.8/44

In: 0.389 $\pm$ 0.000 χ^2 /NDF:3687086.4/42

Out: 0.389 $\pm$ 0.000 χ^2 /NDF:3915032.0/49

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7602124.3/92

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.216+/-0.000 χ^2/NDF : 3166865632.1/19

Left Out: 147.257+/-0.000 χ^2/NDF : 261906278.3/24

Right Out: 142.690+/-0.000 χ^2/NDF : 7006952245.2/24

Left In: 146.685+/-0.000 χ^2/NDF : 554922388.0/22

Left: 146.981+/-0.000 χ^2/NDF : 830580031.2/47

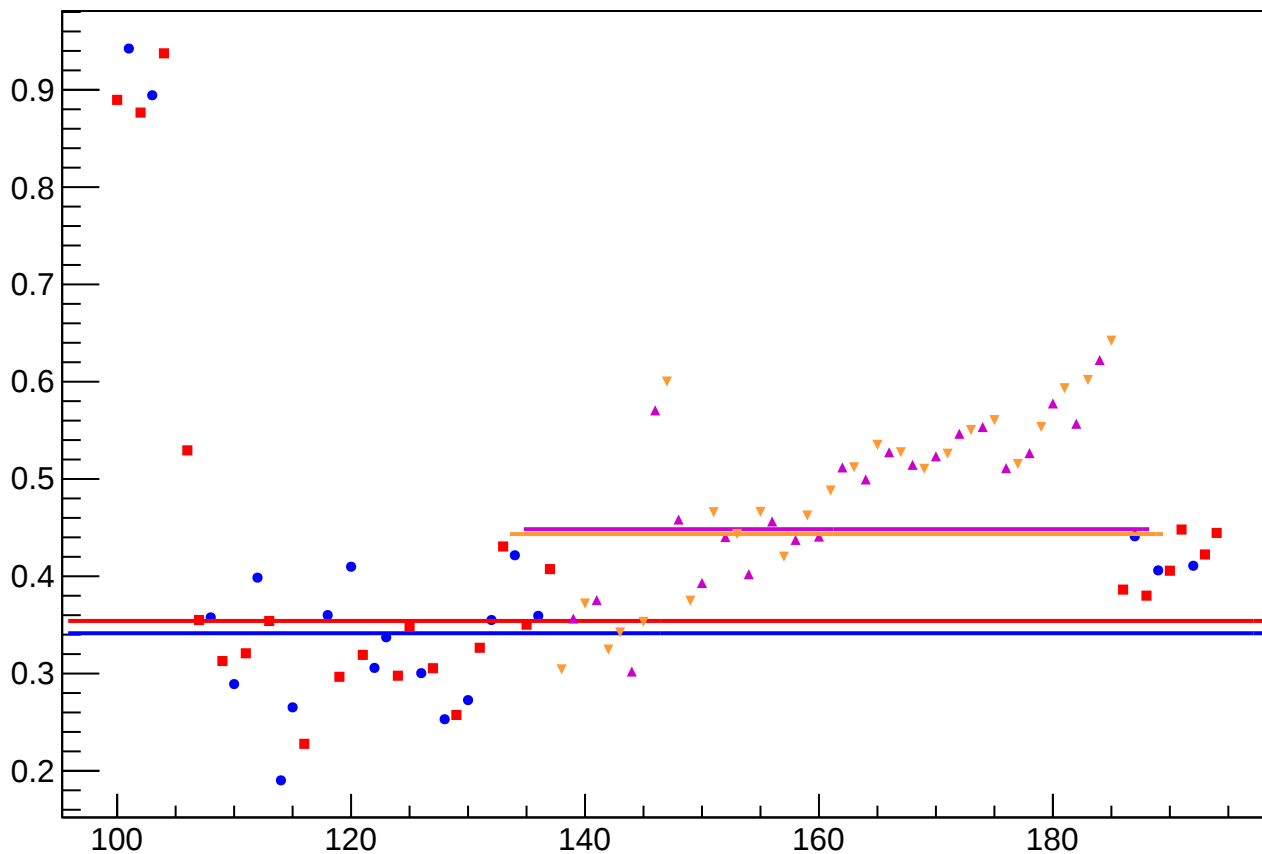
Right: 143.381+/-0.000 χ^2/NDF : 10249925132.7/44

In: 145.638+/-0.000 χ^2/NDF : 3931302668.1/42

Out: 145.185+/-0.000 χ^2/NDF : 8091697709.6/49

All: 145.398+/-0.000 χ^2/NDF : 12038333258.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.341+/-0.000 χ^2/NDF : 1371714.7/19

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.354+/-0.000 χ^2/NDF : 1375321.6/24

Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2602838.0/47

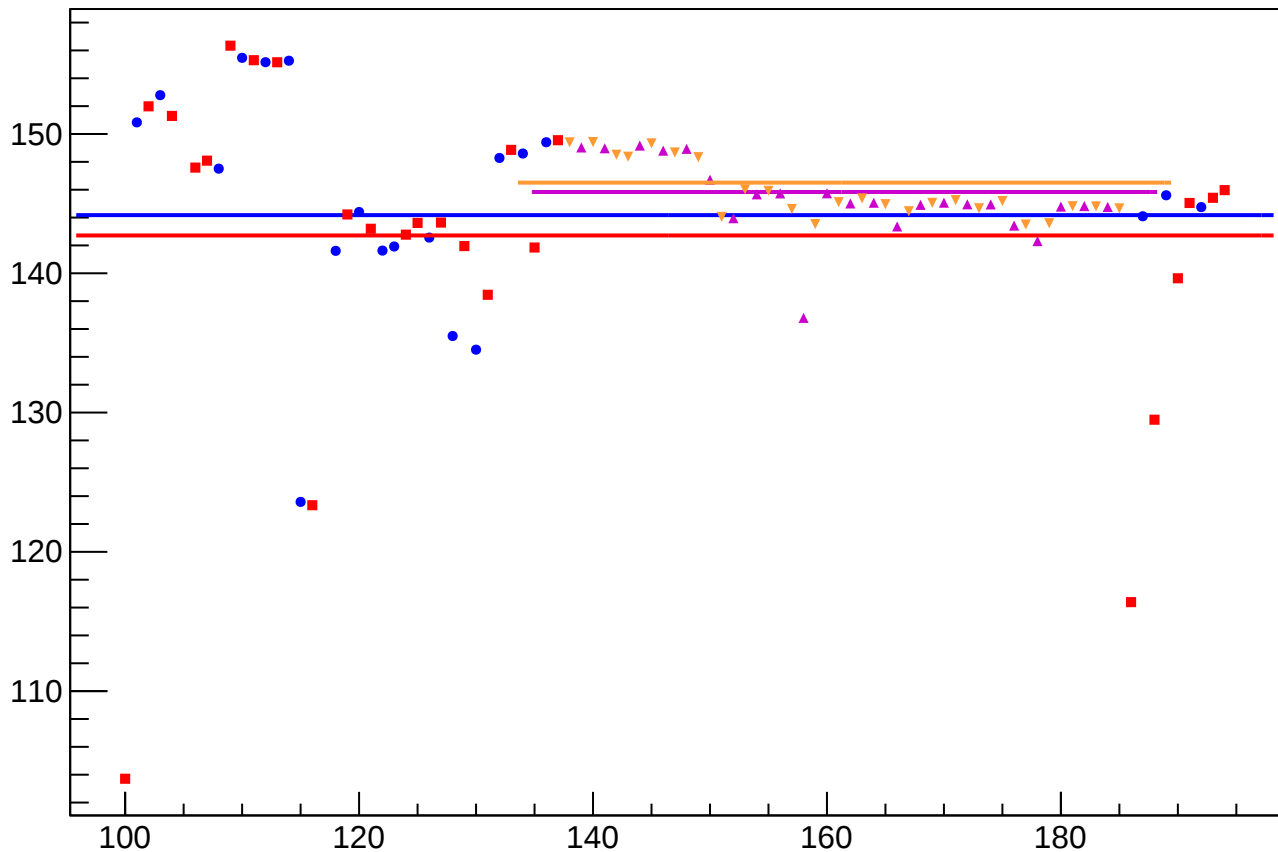
Right: 0.348+/-0.000 χ^2/NDF : 2757493.2/44

In: 0.403+/-0.000 χ^2/NDF :3278209.2/42

Out: 0.403+/-0.000 χ^2/NDF :3484707.3/49

All: 0.403+/-0.000 χ^2/NDF : 6762920.8/92

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.175 ± 0.000 $\chi^2/\text{NDF}: 3287176167.2/19$

Left Out: 146.508 ± 0.000 $\chi^2/\text{NDF}: 401248837.9/24$

Right Out: 142.715 ± 0.000 $\chi^2/\text{NDF}: 6981920956.9/24$

Left In: 145.834 ± 0.000 $\chi^2/\text{NDF}: 690172810.0/22$

Left: 146.184 ± 0.000 $\chi^2/\text{NDF}: 1110403123.5/47$

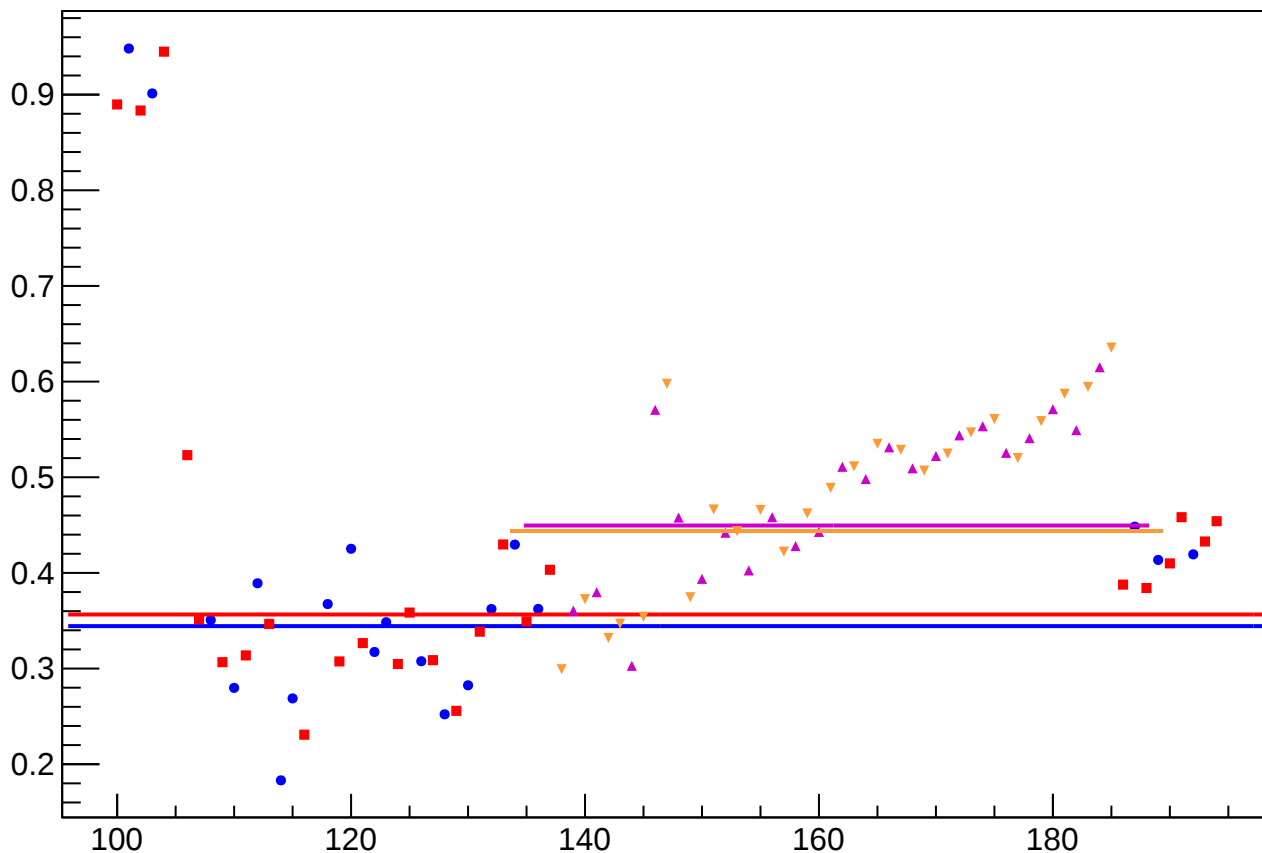
Right: 143.374 ± 0.000 $\chi^2/\text{NDF}: 10337355301.2/44$

In: 145.137 ± 0.000 $\chi^2/\text{NDF}: 4070643464.7/42$

Out: 144.801 ± 0.000 $\chi^2/\text{NDF}: 7944801122.8/49$

All: 144.959 ± 0.000 $\chi^2/\text{NDF}: 12023789406.0/100$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.344+/-0.000 χ^2/NDF : 1399154.1/19

Left Out: 0.444+/-0.000 χ^2/NDF :1460383.7/24

Right Out: 0.357+/-0.000 χ^2/NDF : 1385956.4/24

Left In: 0.450+/-0.000 χ^2/NDF :1092776.5/22

Left: 0.447+/-0.000 χ^2/NDF : 2555905.8/47

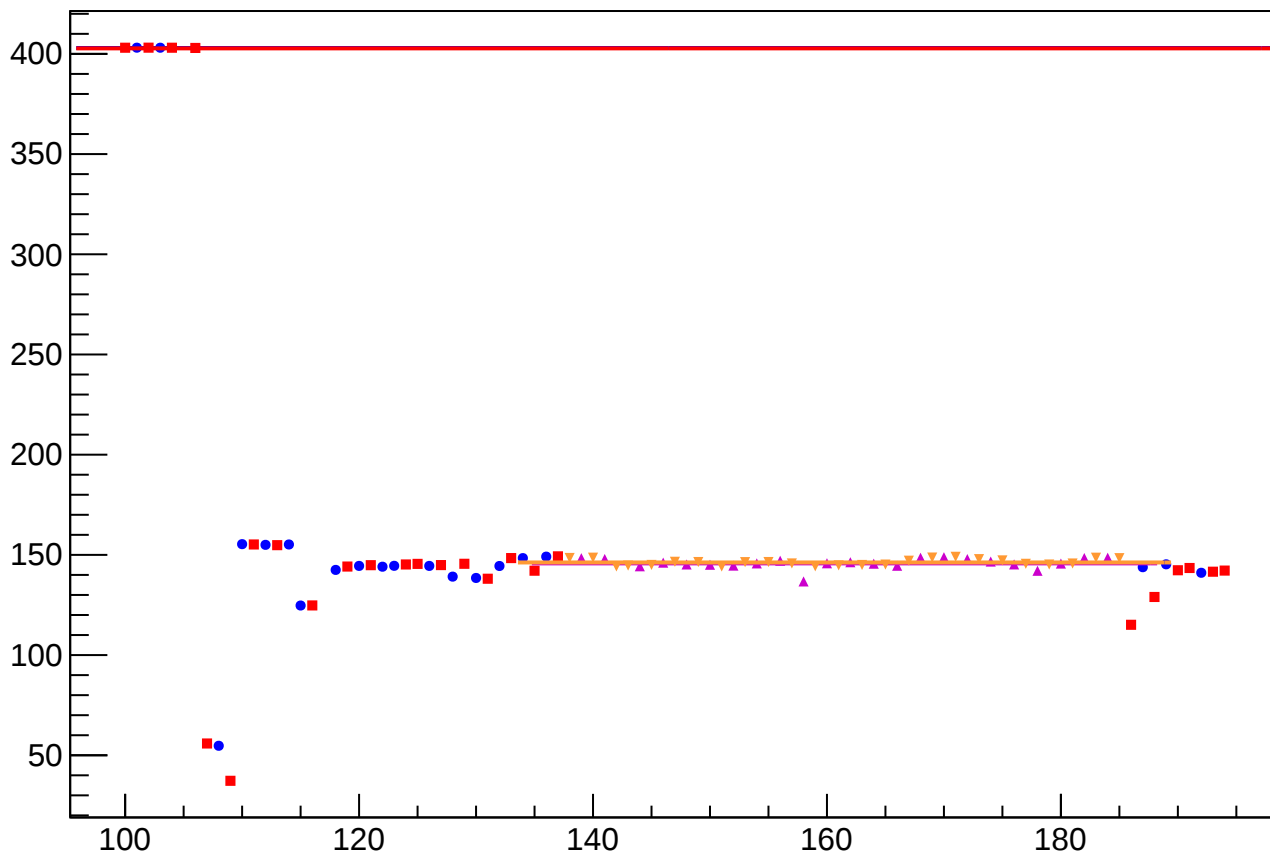
Right: 0.351+/-0.000 χ^2/NDF : 2794557.5/44

In: 0.405+/-0.000 χ^2/NDF :3241076.1/42

Out: 0.405+/-0.000 χ^2/NDF :3441123.9/49

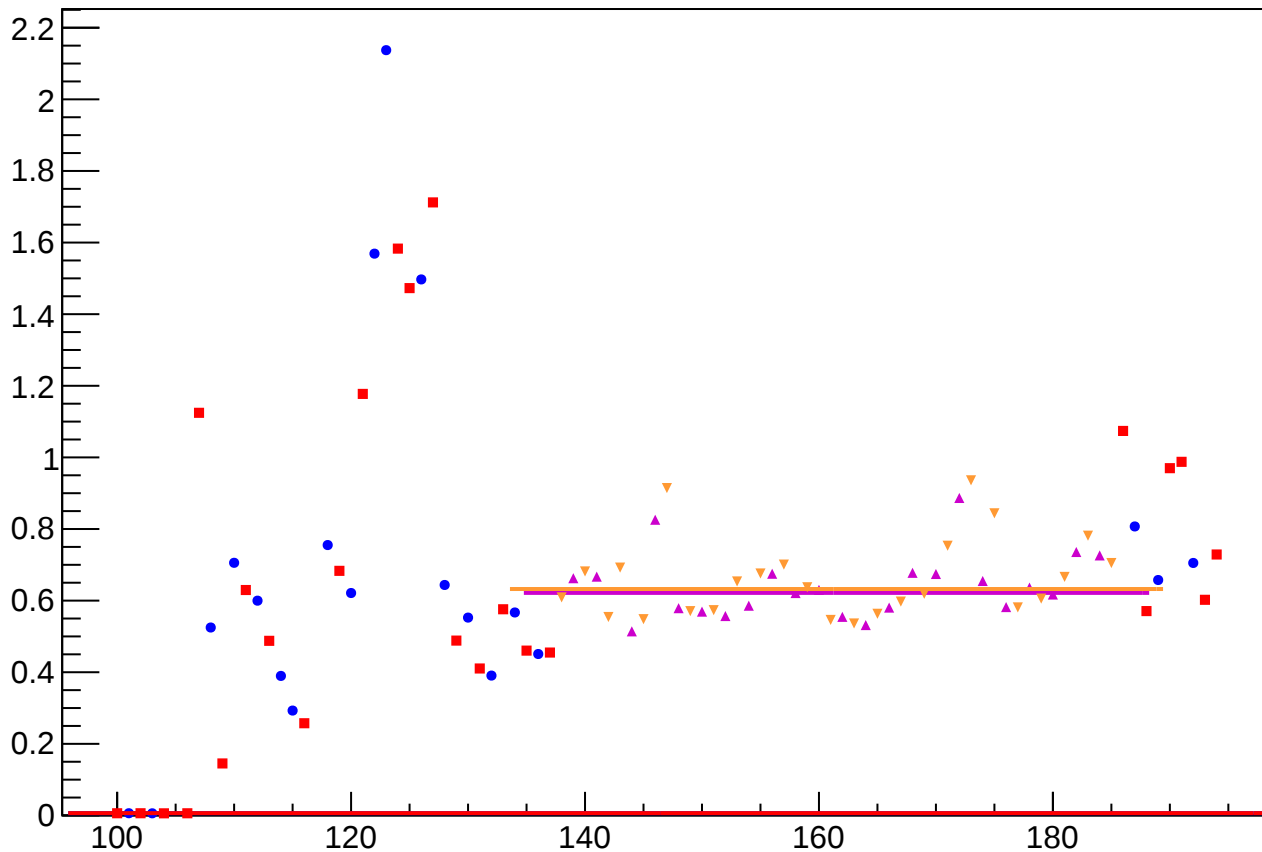
All: 0.405+/-0.000 χ^2/NDF : 6682305.4/92

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.937+/-0.000	χ^2/NDF : 1258827959158.7/19	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.839+/-0.000	χ^2/NDF : 4797120988124.4/
Right Out: 402.753+/-0.000	χ^2/NDF : 3537728594084.9/24	In: 402.646+/-0.000	χ^2/NDF : 3590735042900.1/42
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.492+/-0.000	χ^2/NDF : 5895575404581.1/4
		All: 402.564+/-0.000	χ^2/NDF : 948670465353

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 11399425.5/19

Left Out: 0.632+/-0.000 χ^2/NDF :613604.5/24

Right Out: 0.006+/-0.000 χ^2/NDF : 14697107.1/24

Left In: 0.622+/-0.000 χ^2/NDF :399965.3/22

Left: 0.627+/-0.000 χ^2/NDF : 1017722.4/47

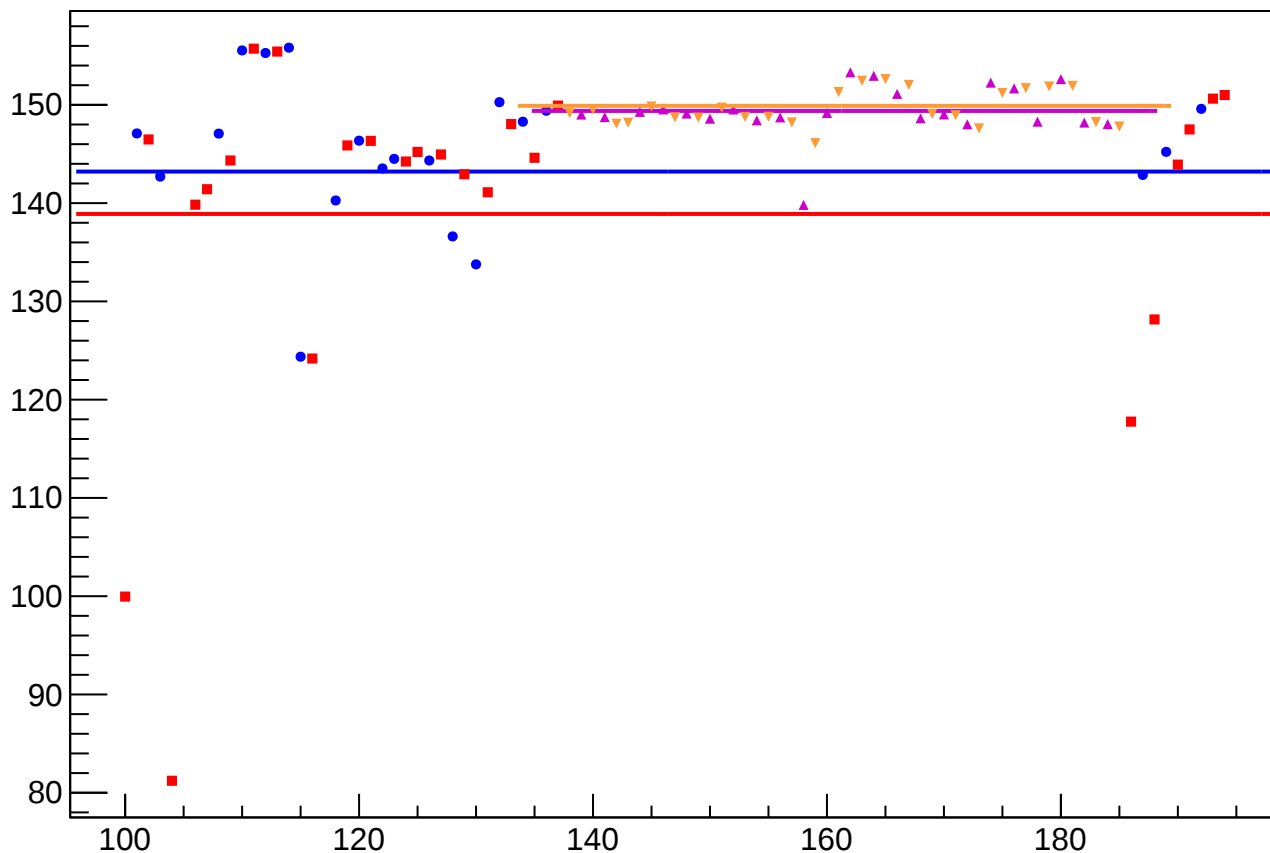
Right: 0.006+/-0.000 χ^2/NDF : 26096613.6/44

In: 0.007+/-0.000 χ^2/NDF :38484642.6/42

Out: 0.007+/-0.000 χ^2/NDF :43386657.1/49

All: 0.007+/-0.000 χ^2/NDF : 81871303.5/92

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 143.211 $\pm$ 0.000 χ^2 /NDF: 1094348803.5/19

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 138.899 $\pm$ 0.000 χ^2 /NDF: 2719416976.3/24

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000 χ^2 /NDF: 604081739.6/47

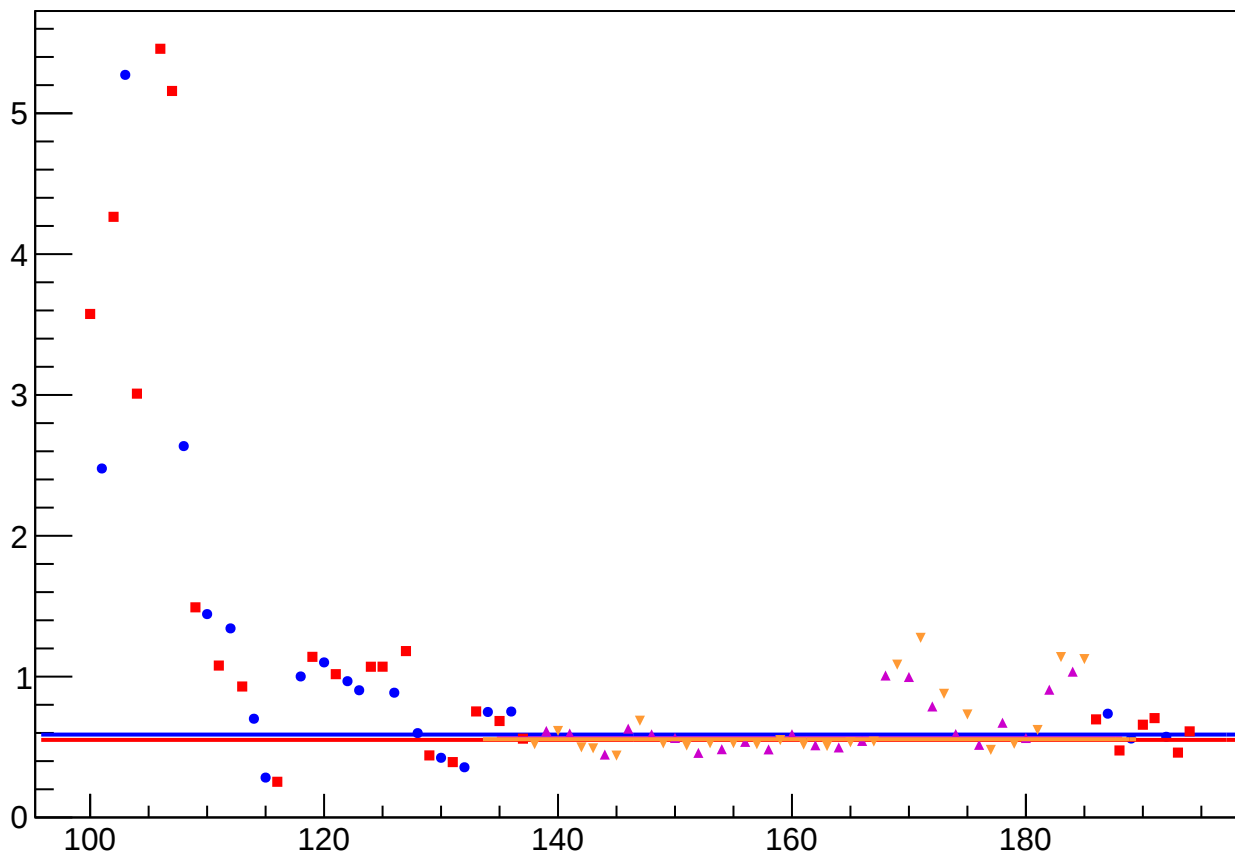
Right: 140.638 $\pm$ 0.000 χ^2 /NDF: 3964975454.2/44

In: 148.001 $\pm$ 0.000 χ^2 /NDF: 1931920467.6/42

Out: 146.771 $\pm$ 0.000 χ^2 /NDF: 4628774166.2/49

All: 147.339 $\pm$ 0.000 χ^2 /NDF: 6610226710.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.588 $\pm$ 0.000 χ^2 /NDF: 3532105.5/19

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.551 $\pm$ 0.000 χ^2 /NDF: 4809928.0/24

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3081194.0/47

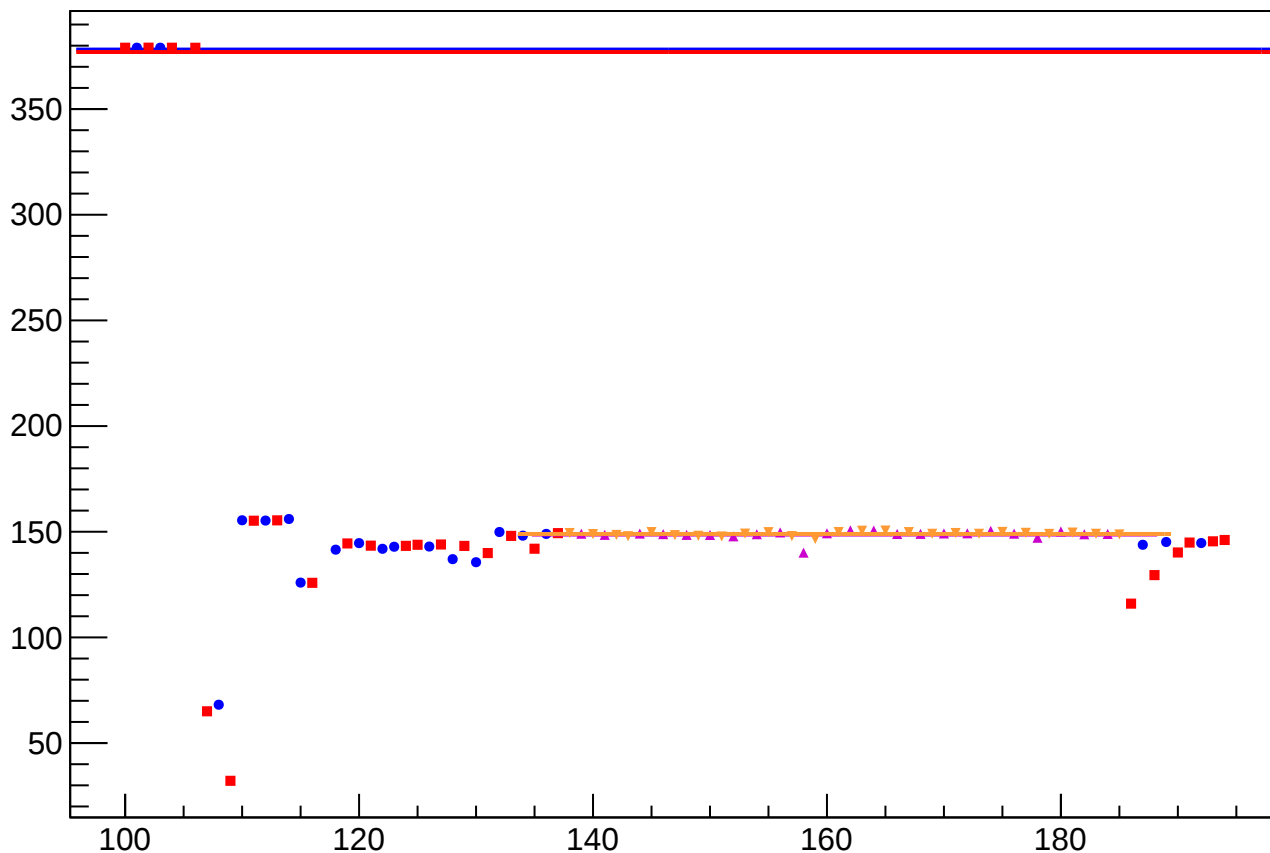
Right: 0.566 $\pm$ 0.000 χ^2 /NDF: 8365193.3/44

In: 0.568 $\pm$ 0.000 χ^2 /NDF:4852793.7/42

Out: 0.554 $\pm$ 0.000 χ^2 /NDF:6584260.0/49

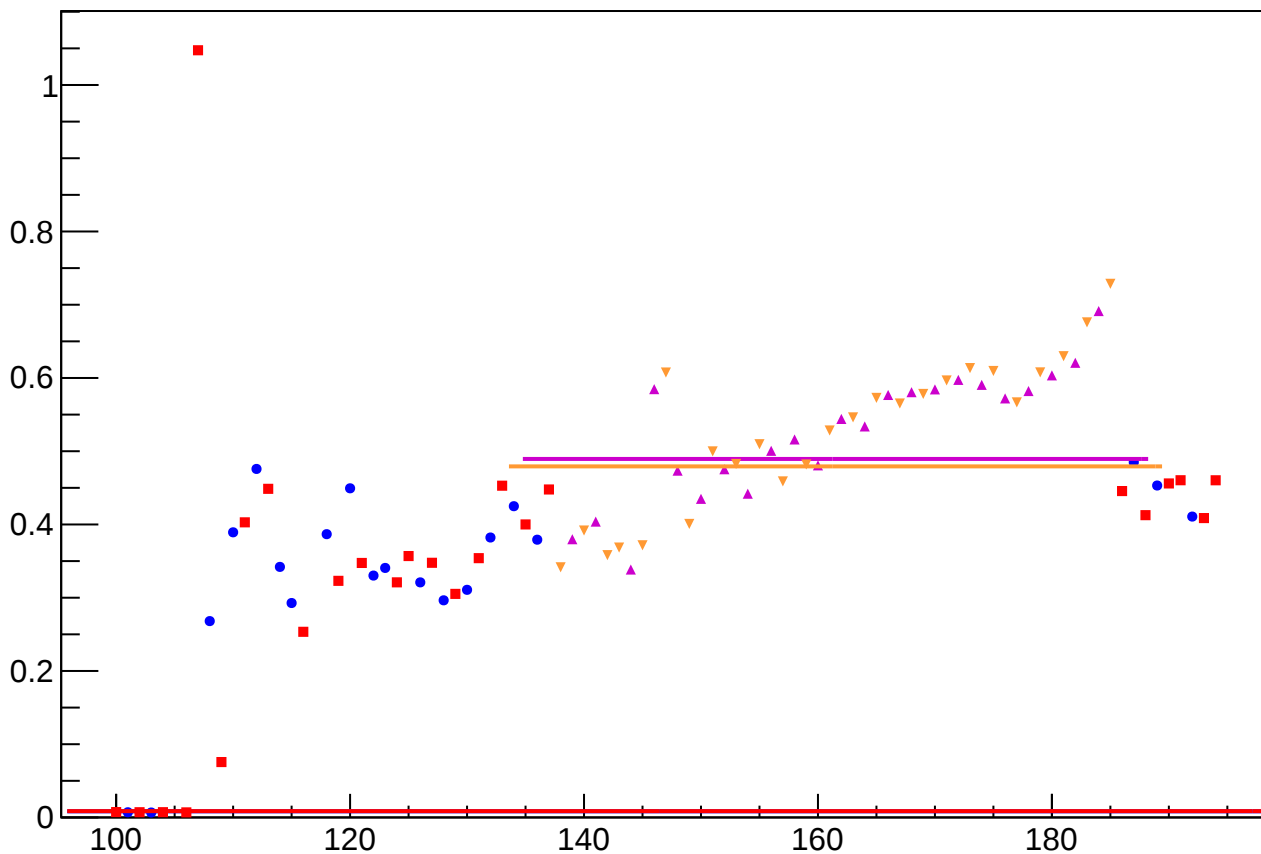
All: 0.560 $\pm$ 0.000 χ^2 /NDF: 11449187.4/92

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.147 $\pm$ 0.000 χ^2 /NDF: 2928619715377.6/19
 Left Out: 148.944 $\pm$ 0.000 χ^2 /NDF: 63976941.3/24
 Right Out: 377.011 $\pm$ 0.000 χ^2 /NDF: 9292846968660.0/24
 Left In: 148.672 $\pm$ 0.000 χ^2 /NDF: 252846428.3/22
 Left: 148.814 $\pm$ 0.000 χ^2 /NDF: 319467494.9/47
 Right: 377.542 $\pm$ 0.000 χ^2 /NDF: 12230627987046.5
 In: 376.975 $\pm$ 0.000 χ^2 /NDF: 6512141646925.7/42
 Out: 375.896 $\pm$ 0.000 χ^2 /NDF: 13159523394778.8
 All: 376.400 $\pm$ 0.000 χ^2 /NDF: 196799777704

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 12668200.5/19

Left Out: 0.479+/-0.000 χ^2/NDF : 1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 15870489.0/24

Left In: 0.489+/-0.000 χ^2/NDF : 1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

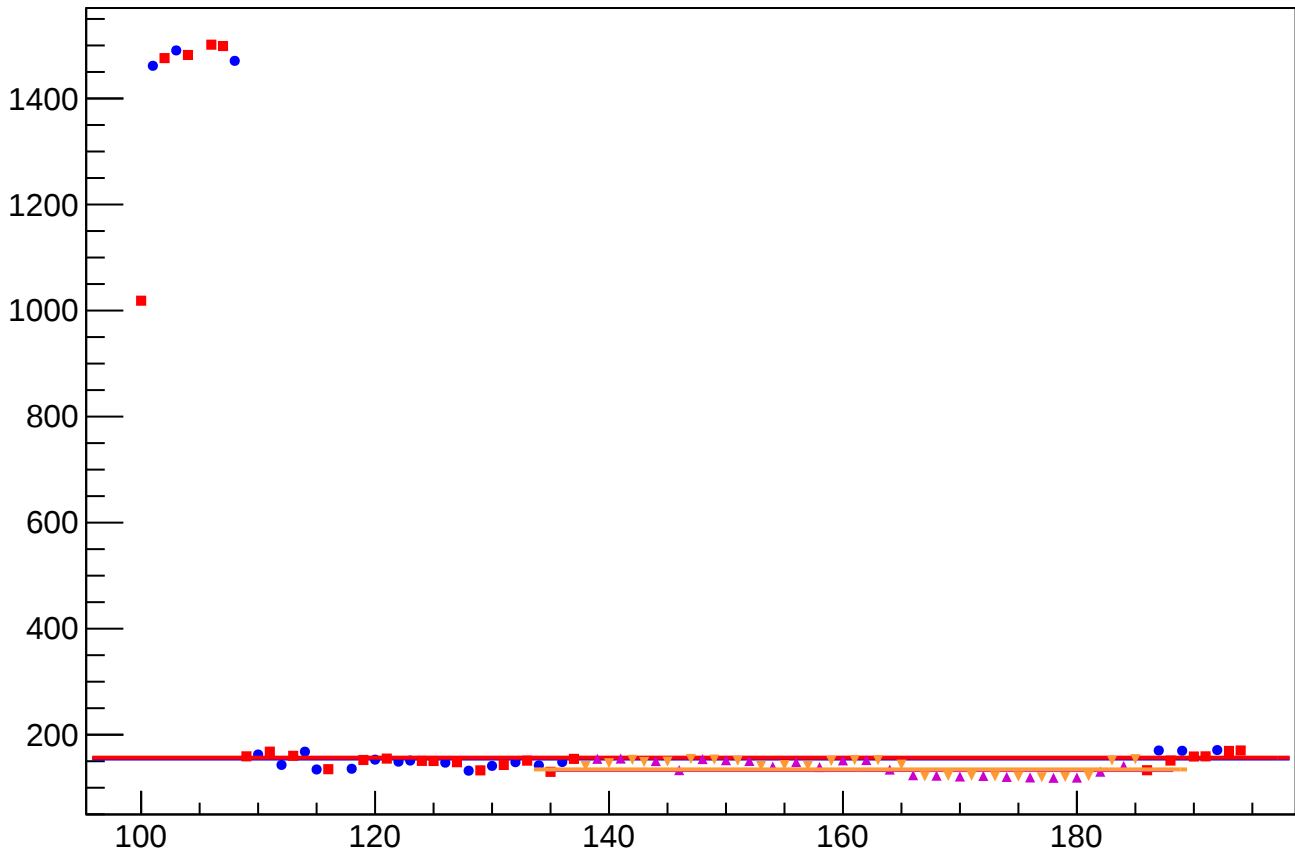
Right: 0.009+/-0.000 χ^2/NDF : 28539682.9/44

In: 0.011+/-0.000 χ^2/NDF : 45243459.7/42

Out: 0.011+/-0.000 χ^2/NDF : 50322481.1/49

All: 0.011+/-0.000 χ^2/NDF : 95566111.2/92

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.084+/-0.000 χ^2/NDF : 25398585810.8/19

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 156.726+/-0.000 χ^2/NDF : 34617255789.5/24

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

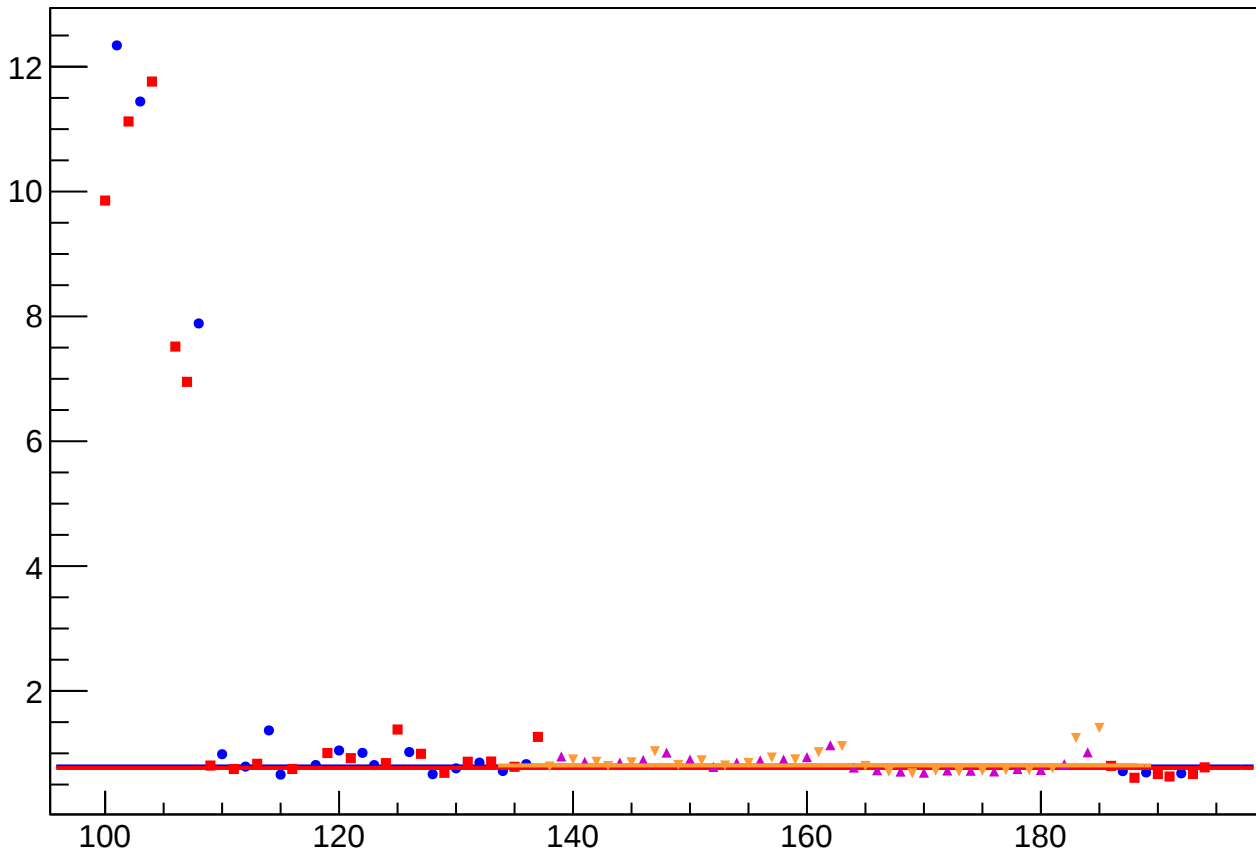
Right: 156.054+/-0.000 χ^2/NDF : 60028862150.7/44

In: 139.091+/-0.000 χ^2/NDF : 32547659595.3/42

Out: 141.926+/-0.000 χ^2/NDF : 42870046808.0/49

All: 140.606+/-0.000 χ^2/NDF : 75550567173.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.790 $\pm$ 0.000 χ^2 /NDF: 2753171.5/19

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.766 $\pm$ 0.000 χ^2 /NDF: 3121270.8/24

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

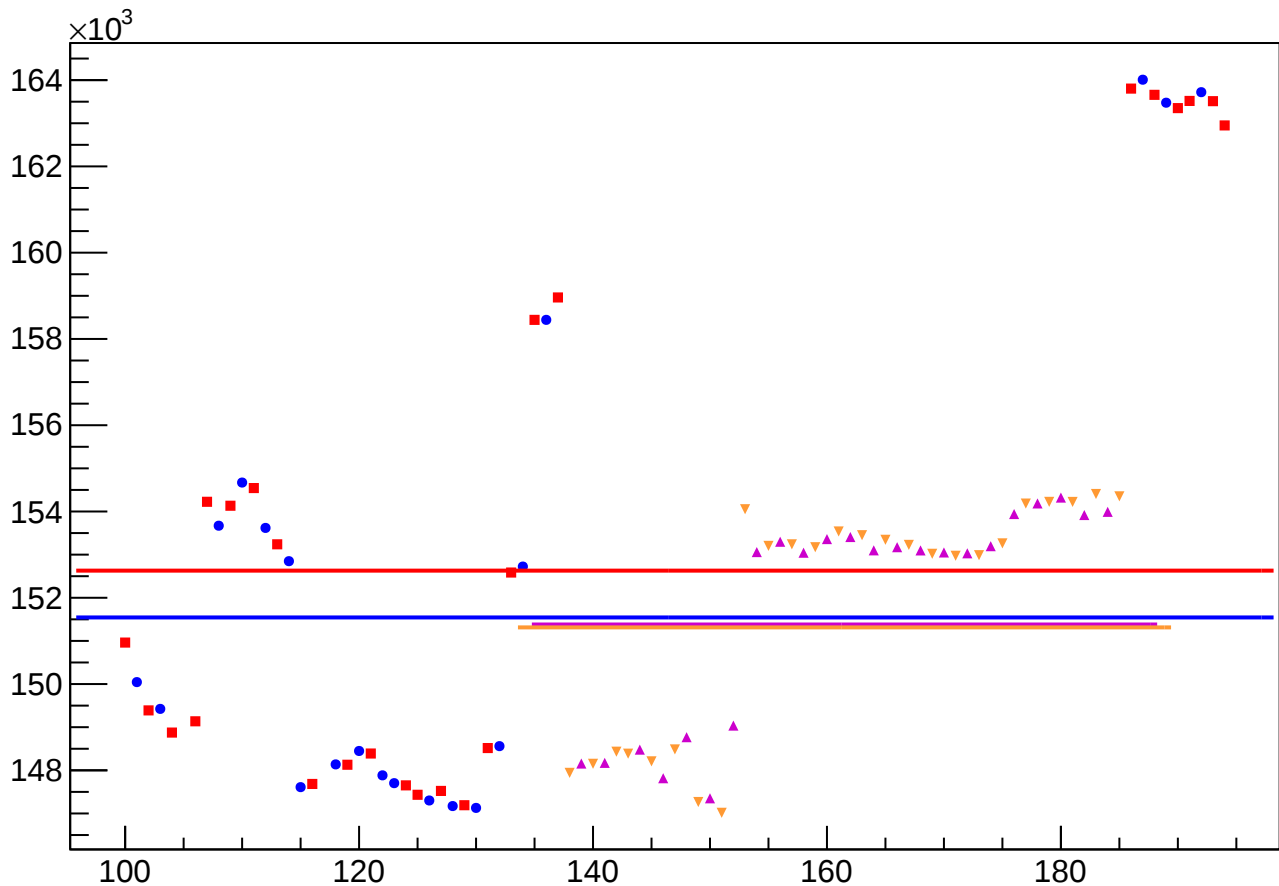
Right: 0.776 $\pm$ 0.000 χ^2 /NDF: 5880185.5/44

In: 0.801 $\pm$ 0.000 χ^2 /NDF:3236238.3/42

Out: 0.793 $\pm$ 0.000 χ^2 /NDF:3837454.5/49

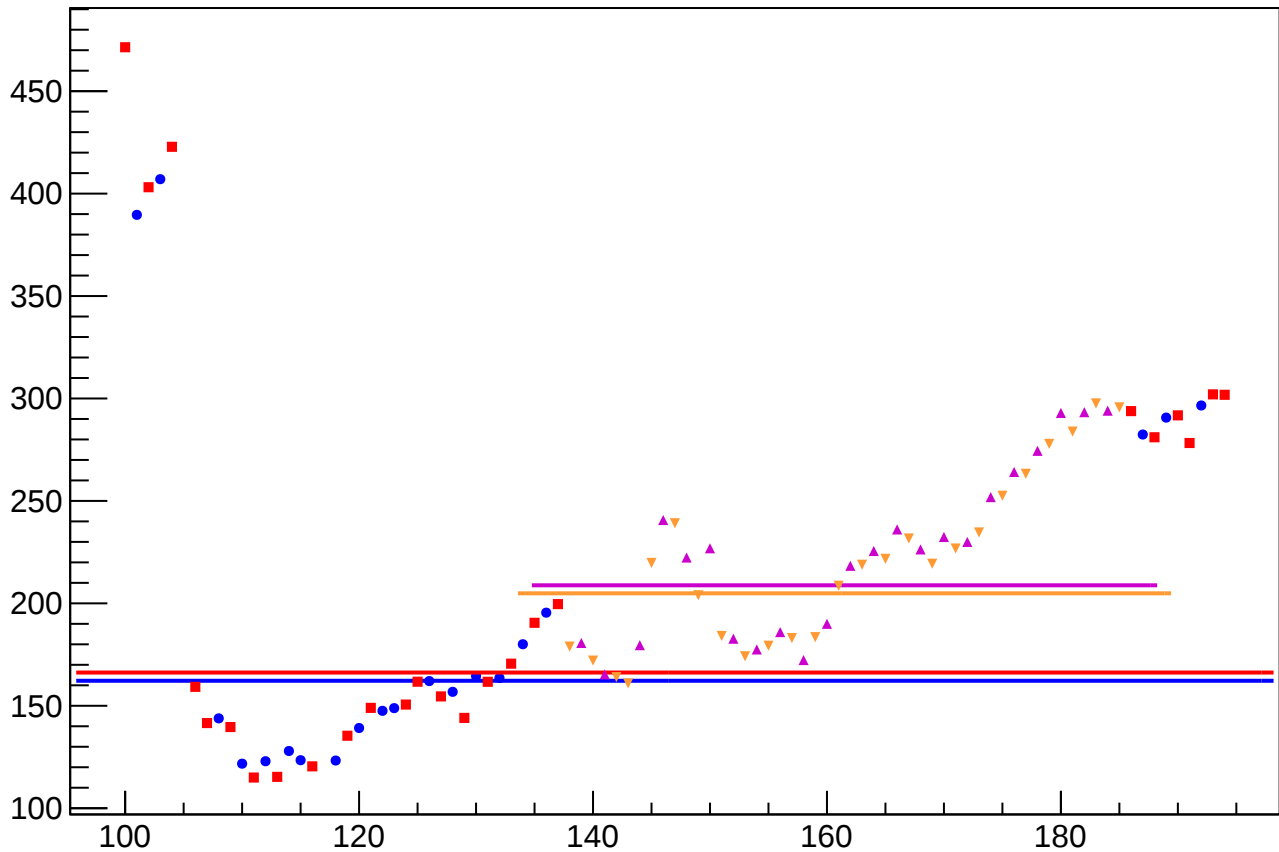
All: 0.797 $\pm$ 0.000 χ^2 /NDF: 7075913.5/92

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 151543.948 $\pm$ 0.061	χ^2 /NDF: 6108194370.9/19	Left: 151345.082 $\pm$ 0.035	χ^2 /NDF: 5518562148.3/4
Left Out: 151313.284 $\pm$ 0.049	χ^2 /NDF: 3153768134.8/24	Right: 152133.951 $\pm$ 0.041	χ^2 /NDF: 14925899060.9
Right Out: 152629.206 $\pm$ 0.056	χ^2 /NDF: 8645448338.1/24	In: 151447.926 $\pm$ 0.039	χ^2 /NDF: 8476319204.9/42
Left In: 151380.236 $\pm$ 0.051	χ^2 /NDF: 2363895785.3/22	Out: 151881.355 $\pm$ 0.037	χ^2 /NDF: 12114614365.8
		All: 151678.914 $\pm$ 0.027	χ^2 /NDF: 20656075

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 162.210 $\pm$ 0.043 χ^2 /NDF: 1810118.5/19

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF: 1056380.8/24

Right Out: 166.236 $\pm$ 0.039 χ^2 /NDF: 2649466.8/24

Left In: 208.813 $\pm$ 0.036 χ^2 /NDF: 1001936.6/22

Left: 206.758 $\pm$ 0.025 χ^2 /NDF: 2064453.9/47

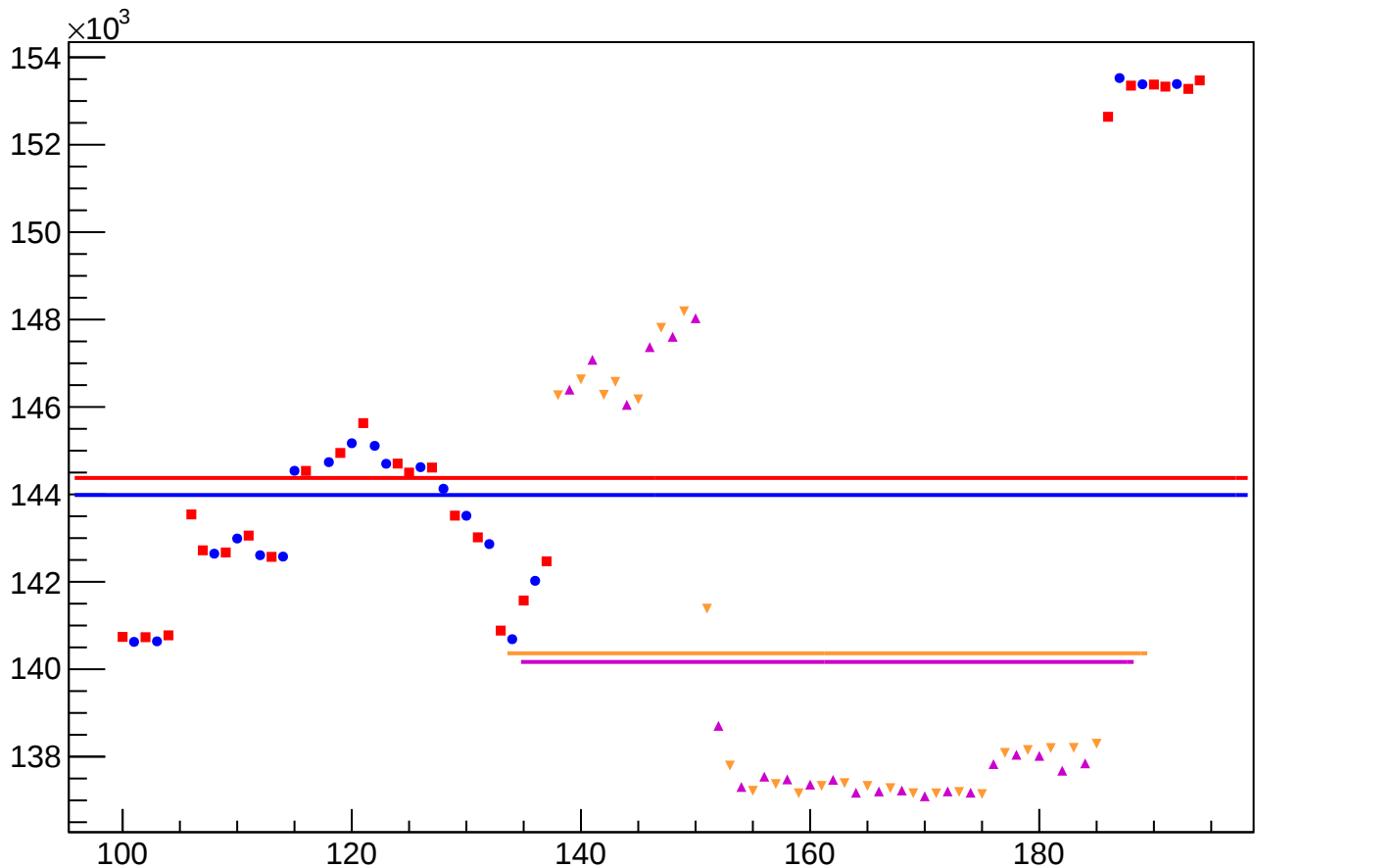
Right: 164.398 $\pm$ 0.029 χ^2 /NDF: 4464326.0/44

In: 189.544 $\pm$ 0.028 χ^2 /NDF: 3497442.7/42

Out: 188.209 $\pm$ 0.026 χ^2 /NDF: 4250402.2/49

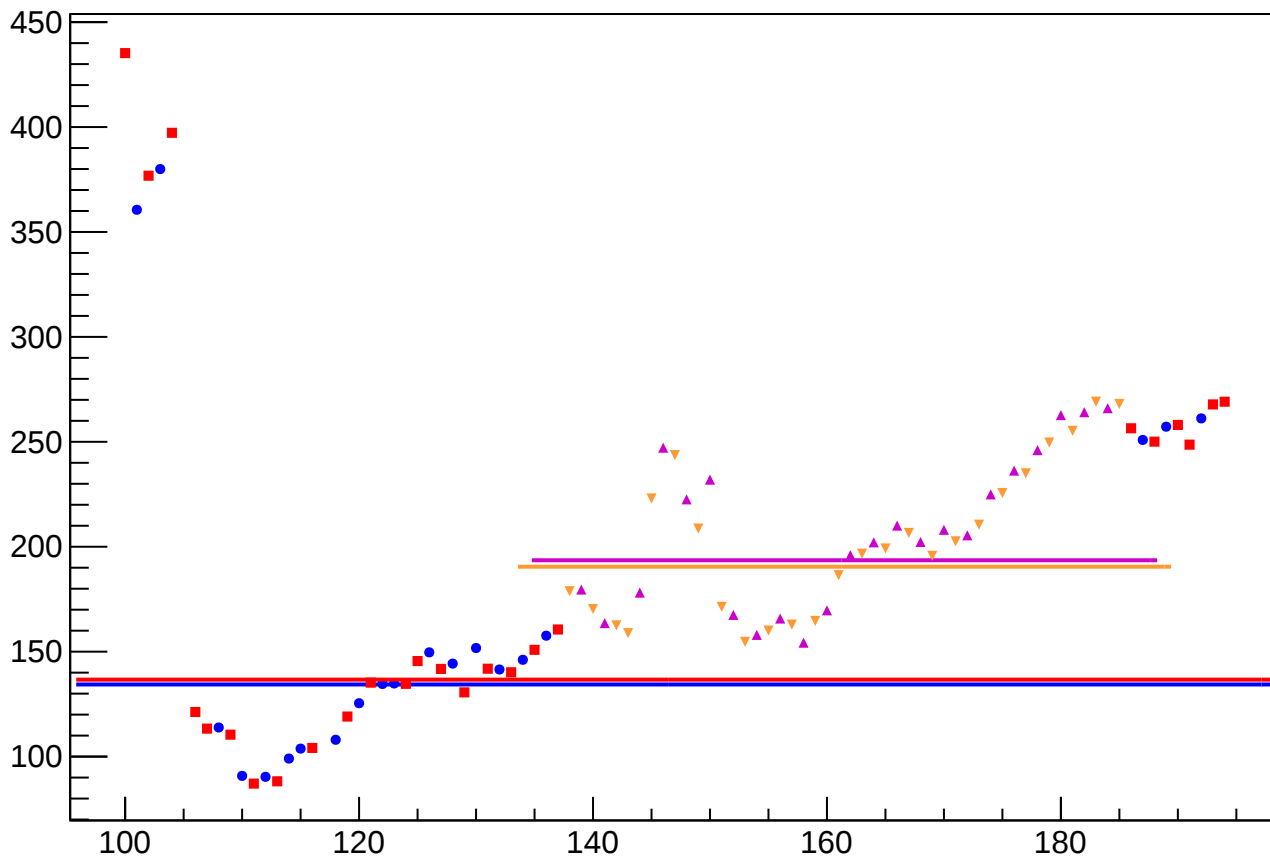
All: 188.832 $\pm$ 0.019 χ^2 /NDF: 7749081.3/92

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143985.956 $\pm$ 0.051 χ^2 /NDF: 2677038167.3/19
 Left: 140270.460 $\pm$ 0.033 χ^2 /NDF: 16714620354.4
 Left Out: 140364.444 $\pm$ 0.045 χ^2 /NDF: 8677078677.7/24
 Right: 144200.535 $\pm$ 0.034 χ^2 /NDF: 7849346024.0
 Right Out: 144376.489 $\pm$ 0.046 χ^2 /NDF: 5140324673.2/24
 In: 141931.946 $\pm$ 0.035 χ^2 /NDF: 13699318175.7/4
 Out: 142320.792 $\pm$ 0.032 χ^2 /NDF: 17656144391.5
 Left In: 140166.971 $\pm$ 0.047 χ^2 /NDF: 8028464654.6/22
 All: 142140.424 $\pm$ 0.024 χ^2 /NDF: 314224079

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 134.362 $\pm$ 0.036 χ^2 /NDF: 2196565.6/19

Left Out: 190.486 $\pm$ 0.032 χ^2 /NDF:950233.2/24

Right Out: 136.673 $\pm$ 0.033 χ^2 /NDF: 3184100.0/24

Left In: 193.558 $\pm$ 0.034 χ^2 /NDF:963675.0/22

Left: 191.948 $\pm$ 0.023 χ^2 /NDF: 1918302.4/47

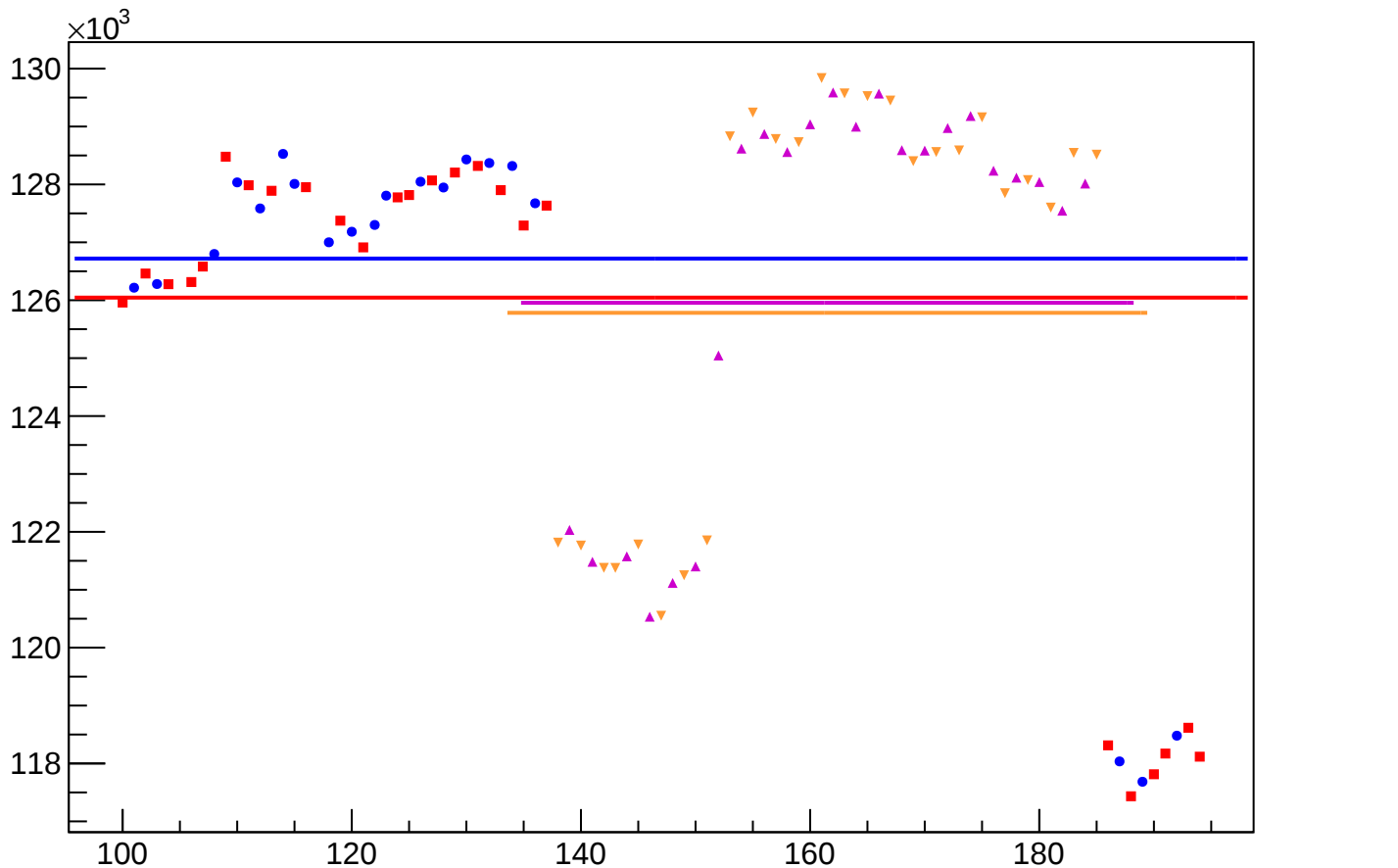
Right: 135.632 $\pm$ 0.024 χ^2 /NDF: 5382906.0/44

In: 166.200 $\pm$ 0.025 χ^2 /NDF:4598863.4/42

Out: 164.246 $\pm$ 0.023 χ^2 /NDF:5515531.7/49

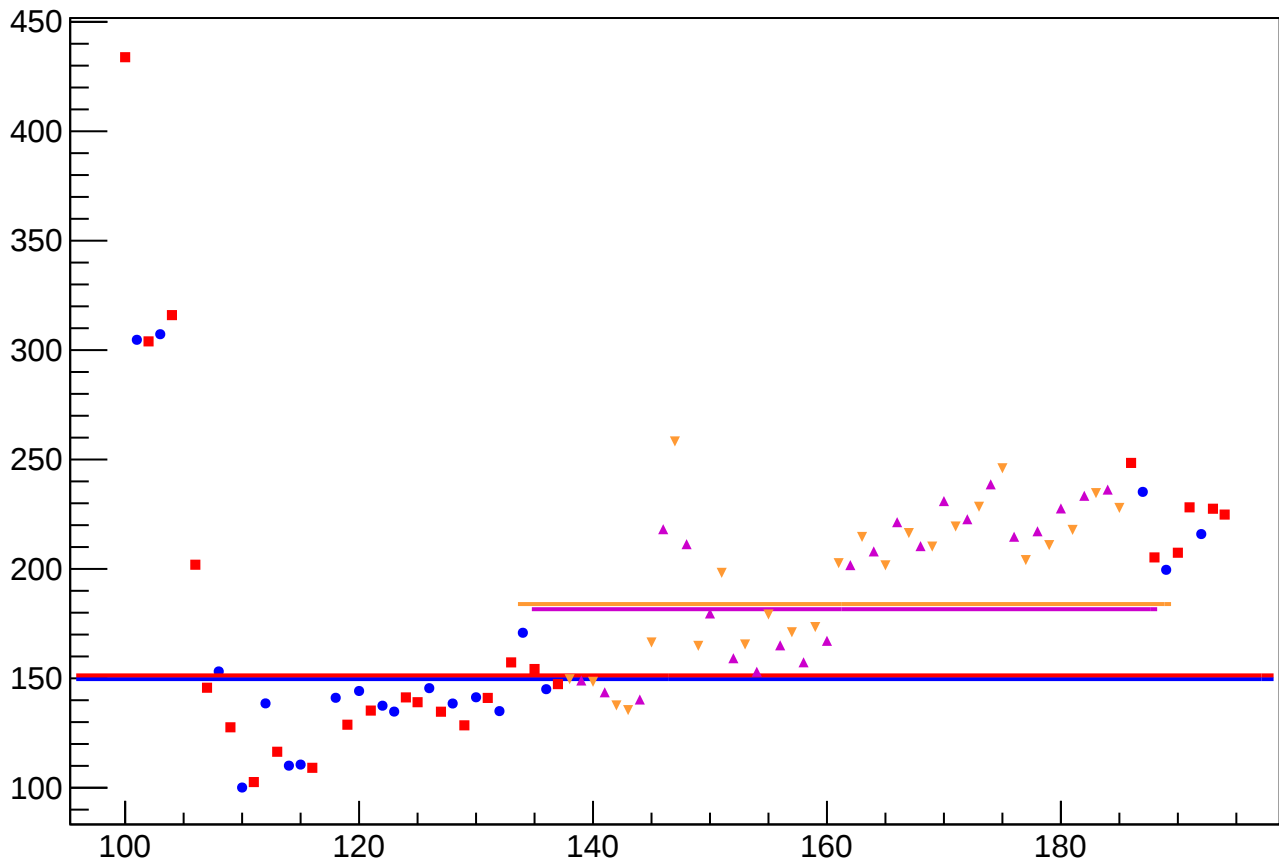
All: 165.152 $\pm$ 0.017 χ^2 /NDF: 10117777.3/92

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 126719.709 $\pm$ 0.055	χ^2/NDF : 2878635359.3/19	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/19
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 126347.345 $\pm$ 0.037	χ^2/NDF : 8574849049.6/24
Right Out: 126045.288 $\pm$ 0.050	χ^2/NDF : 5613470925.3/24	In: 126259.827 $\pm$ 0.035	χ^2/NDF : 8798498485.4/42
Left In: 125955.637 $\pm$ 0.045	χ^2/NDF : 5804088930.1/22	Out: 125898.337 $\pm$ 0.033	χ^2/NDF : 12358902103.0/22
		All: 126069.269 $\pm$ 0.024	χ^2/NDF : 212144096/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 149.654 $\pm$ 0.039 χ^2 /NDF: 1134363.6/19

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF:1123194.0/24

Right Out: 151.350 $\pm$ 0.035 χ^2 /NDF: 1777051.5/24

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF:1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

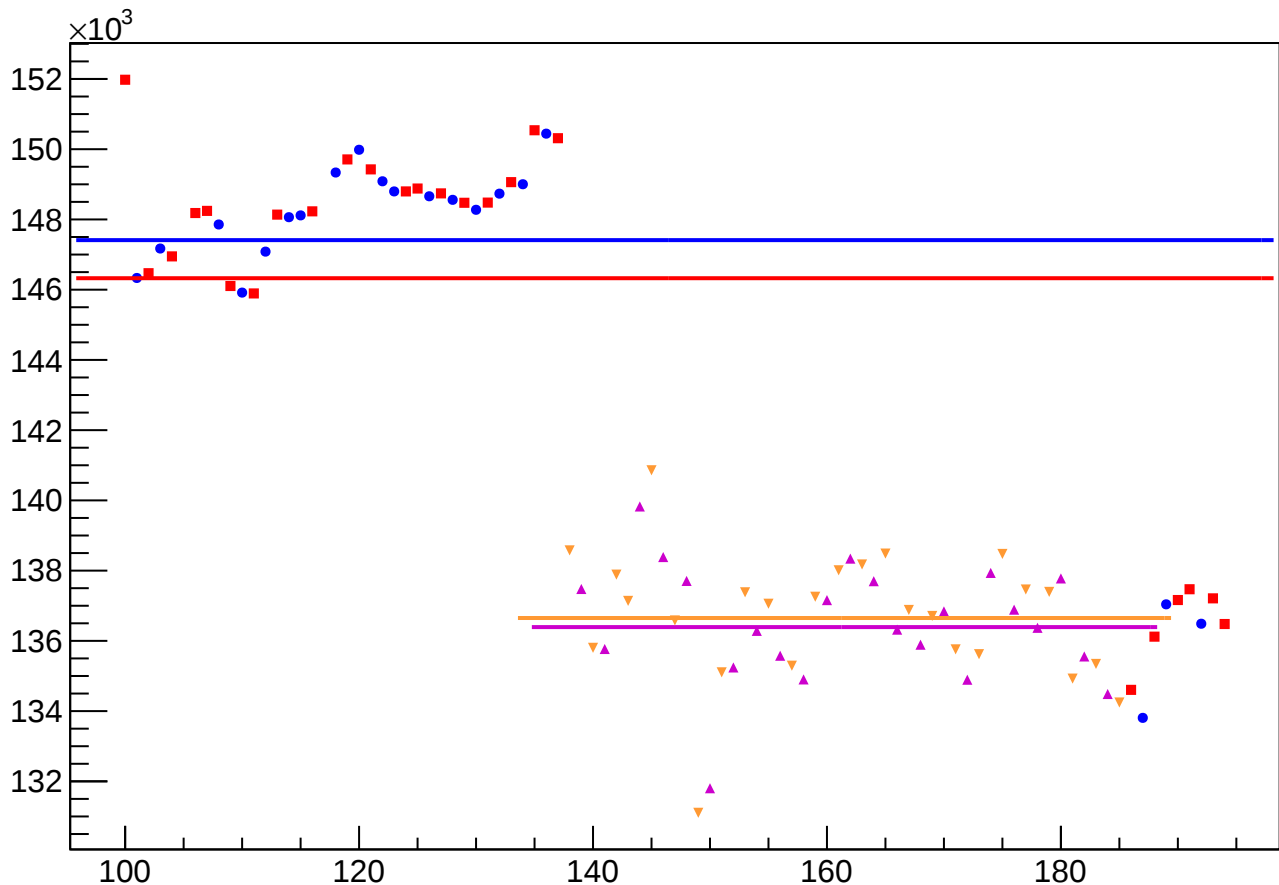
Right: 150.590 $\pm$ 0.026 χ^2 /NDF: 2912460.8/44

In: 168.879 $\pm$ 0.025 χ^2 /NDF:2642537.1/42

Out: 169.596 $\pm$ 0.023 χ^2 /NDF:3383410.6/49

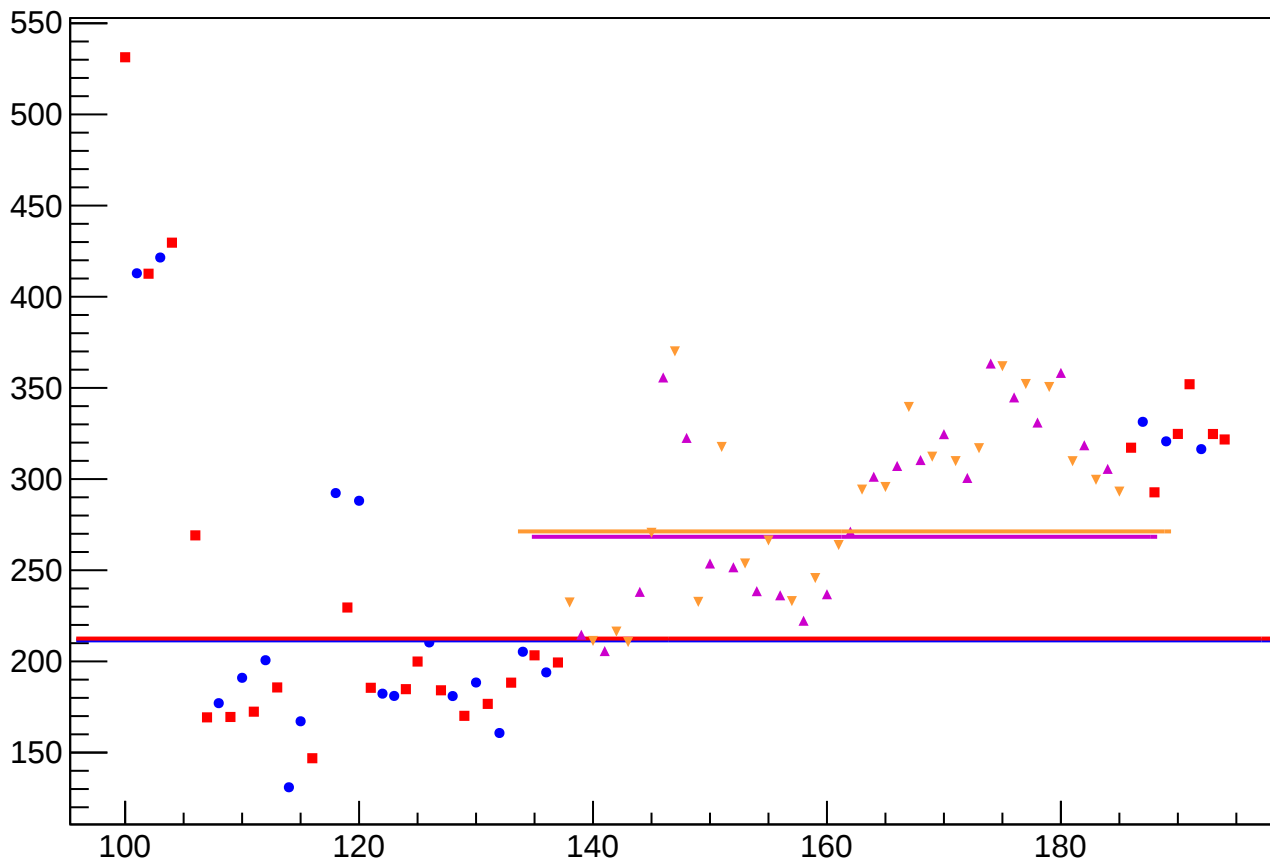
All: 169.257 $\pm$ 0.017 χ^2 /NDF: 6026396.2/92

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 147410.911 $\pm$ 0.078	χ^2 /NDF: 2223550673.6/19	Left: 136524.219 $\pm$ 0.046	χ^2 /NDF: 1640486942.5/4
Left Out: 136650.935 $\pm$ 0.065	χ^2 /NDF: 930649595.5/24	Right: 146806.048 $\pm$ 0.052	χ^2 /NDF: 6643674751.7/
Right Out: 146326.344 $\pm$ 0.070	χ^2 /NDF: 4313337231.1/24	In: 140961.047 $\pm$ 0.050	χ^2 /NDF: 14494260260.6/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 141116.772 $\pm$ 0.047	χ^2 /NDF: 15589681715.2
		All: 141043.756 $\pm$ 0.035	χ^2 /NDF: 300889983

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 211.532 $\pm$ 0.055 χ^2 /NDF: 1319447.9/19

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 212.527 $\pm$ 0.049 χ^2 /NDF: 1727484.3/24

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF:1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

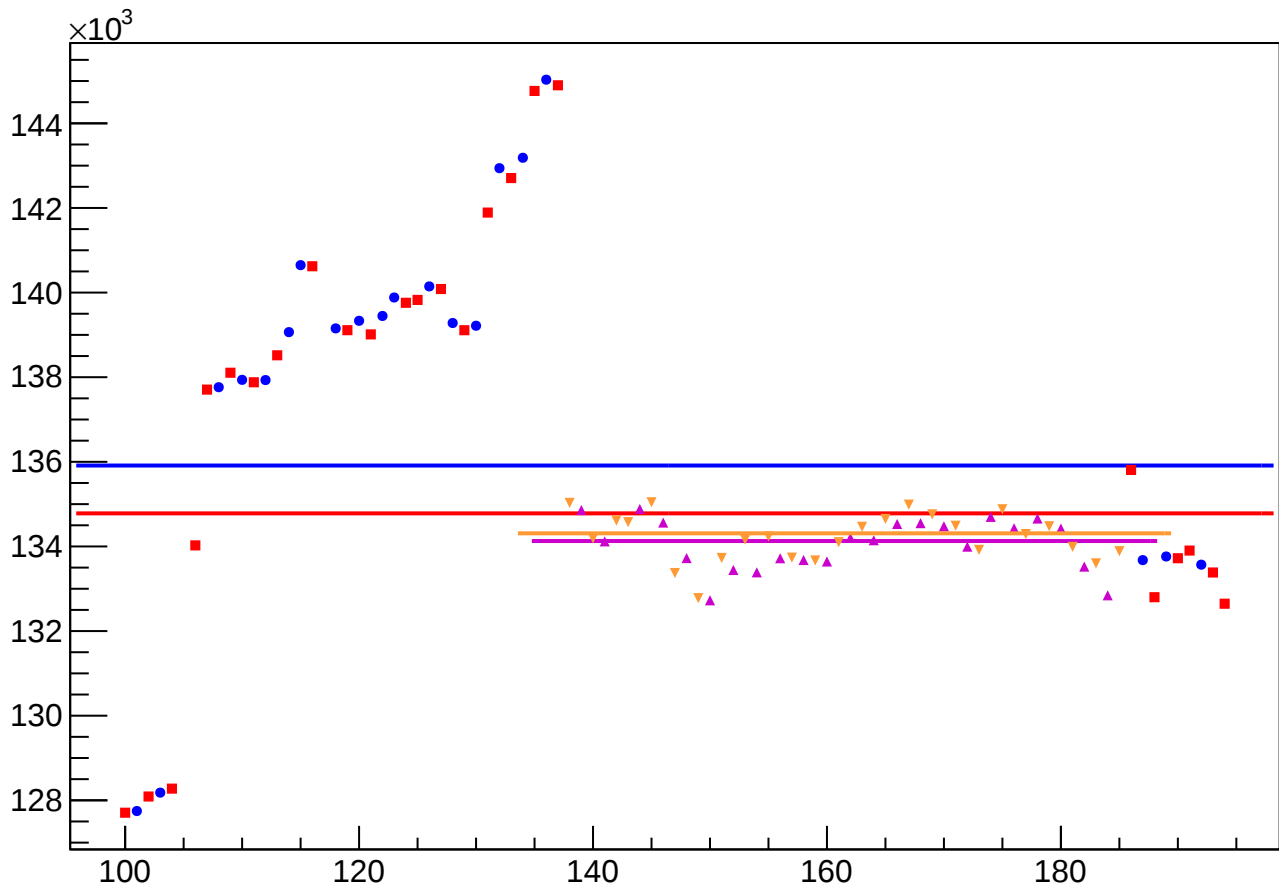
Right: 212.087 $\pm$ 0.037 χ^2 /NDF: 3047112.0/44

In: 244.787 $\pm$ 0.036 χ^2 /NDF:3011879.5/42

Out: 244.170 $\pm$ 0.034 χ^2 /NDF:3555328.9/49

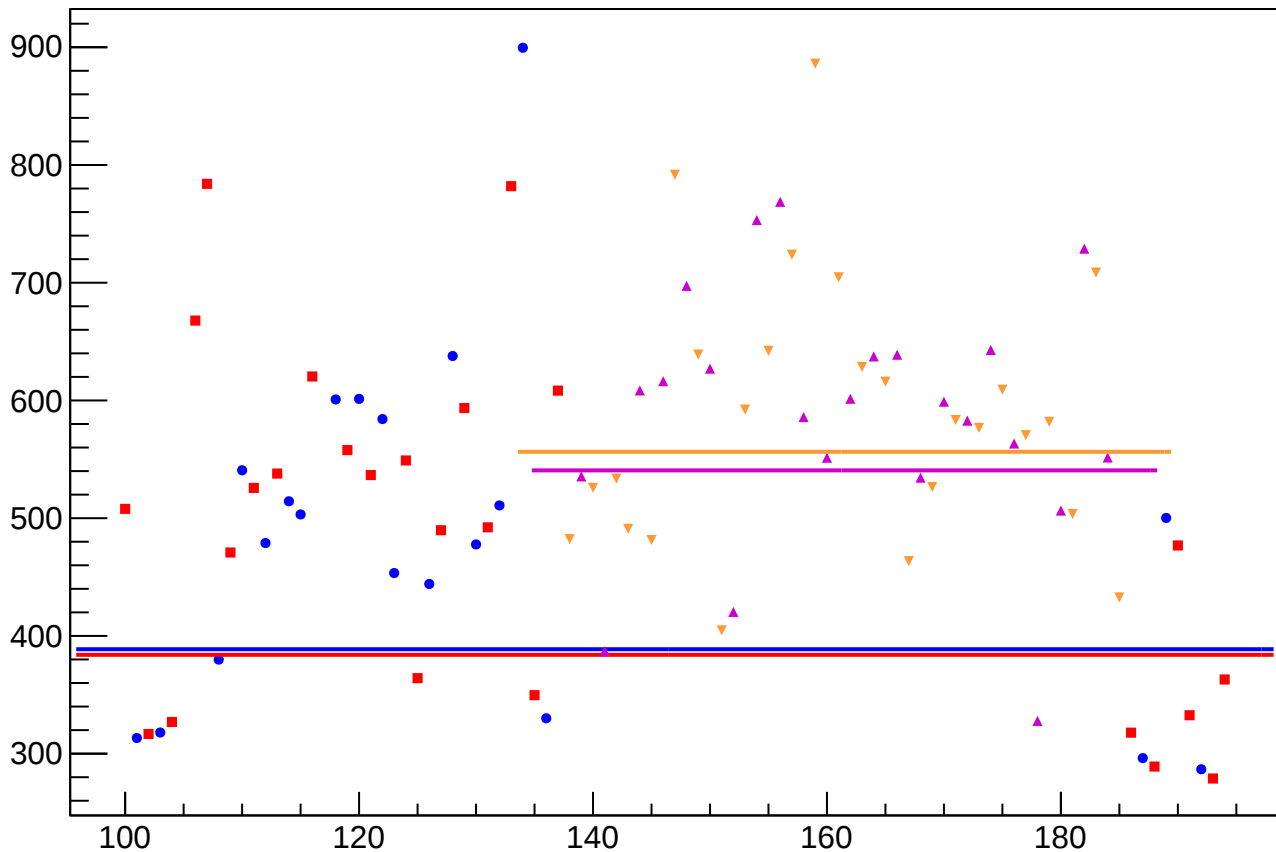
All: 244.459 $\pm$ 0.024 χ^2 /NDF: 6567367.1/92

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 135912.493 $\pm$ 0.151	χ^2 /NDF: 1562232912.6/19	Left: 134221.438 $\pm$ 0.099	χ^2 /NDF: 31894688.0/47
Left Out: 134310.250 $\pm$ 0.139	χ^2 /NDF: 15518632.9/24	Right: 135280.997 $\pm$ 0.100	χ^2 /NDF: 2788133513.8/
Right Out: 134781.712 $\pm$ 0.134	χ^2 /NDF: 1194532988.8/24	In: 134966.200 $\pm$ 0.103	χ^2 /NDF: 1651937002.7/42
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 134553.579 $\pm$ 0.096	χ^2 /NDF: 1216027308.9/4
		All: 134745.410 $\pm$ 0.071	χ^2 /NDF: 287648505

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 388.704 $\pm$ 0.107 χ^2 /NDF: 1068223.6/19

Left Out: 556.381 $\pm$ 0.098 χ^2 /NDF:1002064.0/24

Right Out: 383.959 $\pm$ 0.095 χ^2 /NDF: 1492176.1/24

Left In: 540.607 $\pm$ 0.100 χ^2 /NDF:1409015.2/22

Left: 548.687 $\pm$ 0.070 χ^2 /NDF: 2423723.9/47

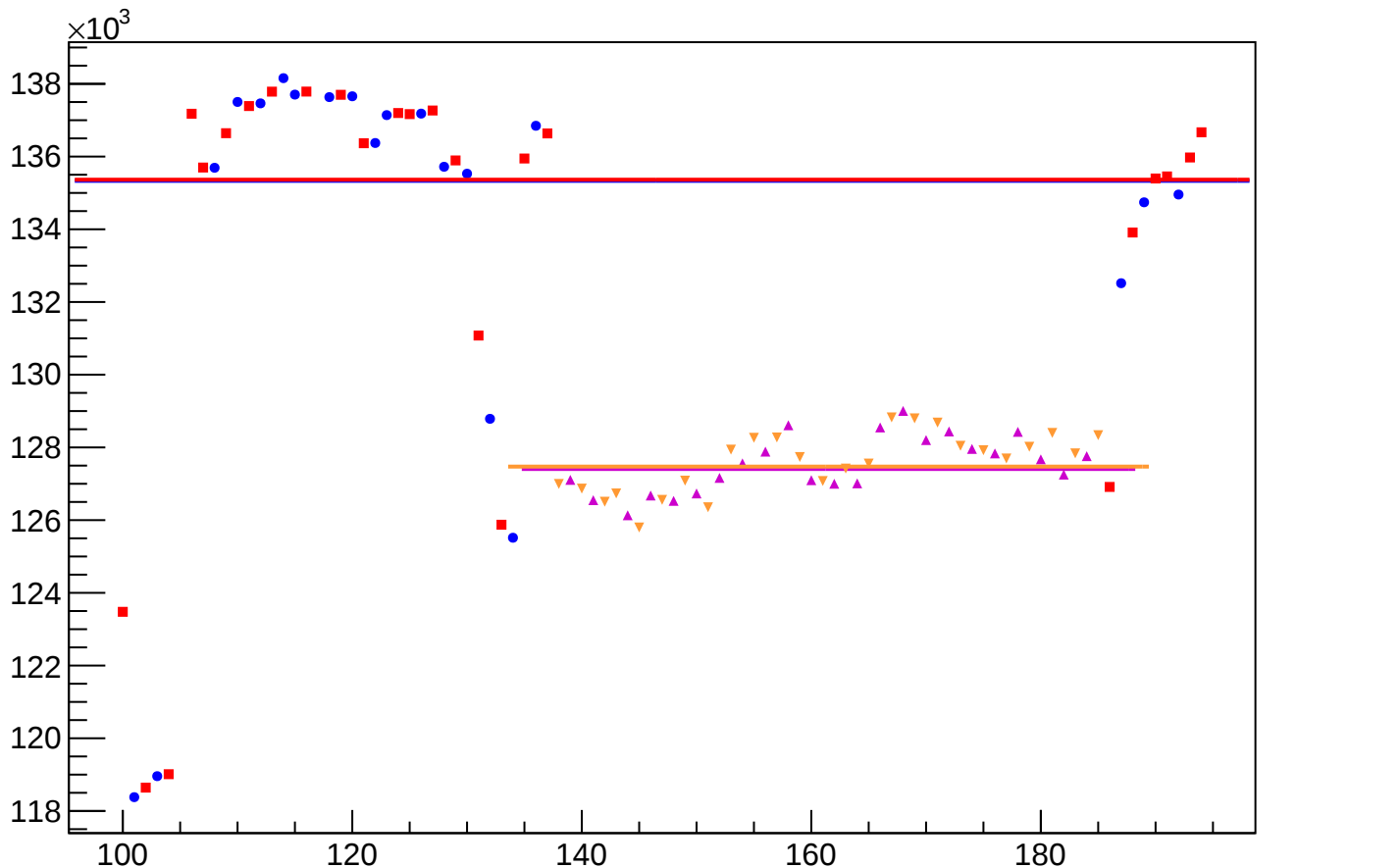
Right: 386.054 $\pm$ 0.071 χ^2 /NDF: 2561504.7/44

In: 469.264 $\pm$ 0.073 χ^2 /NDF:3552331.3/42

Out: 467.391 $\pm$ 0.068 χ^2 /NDF:4092750.0/49

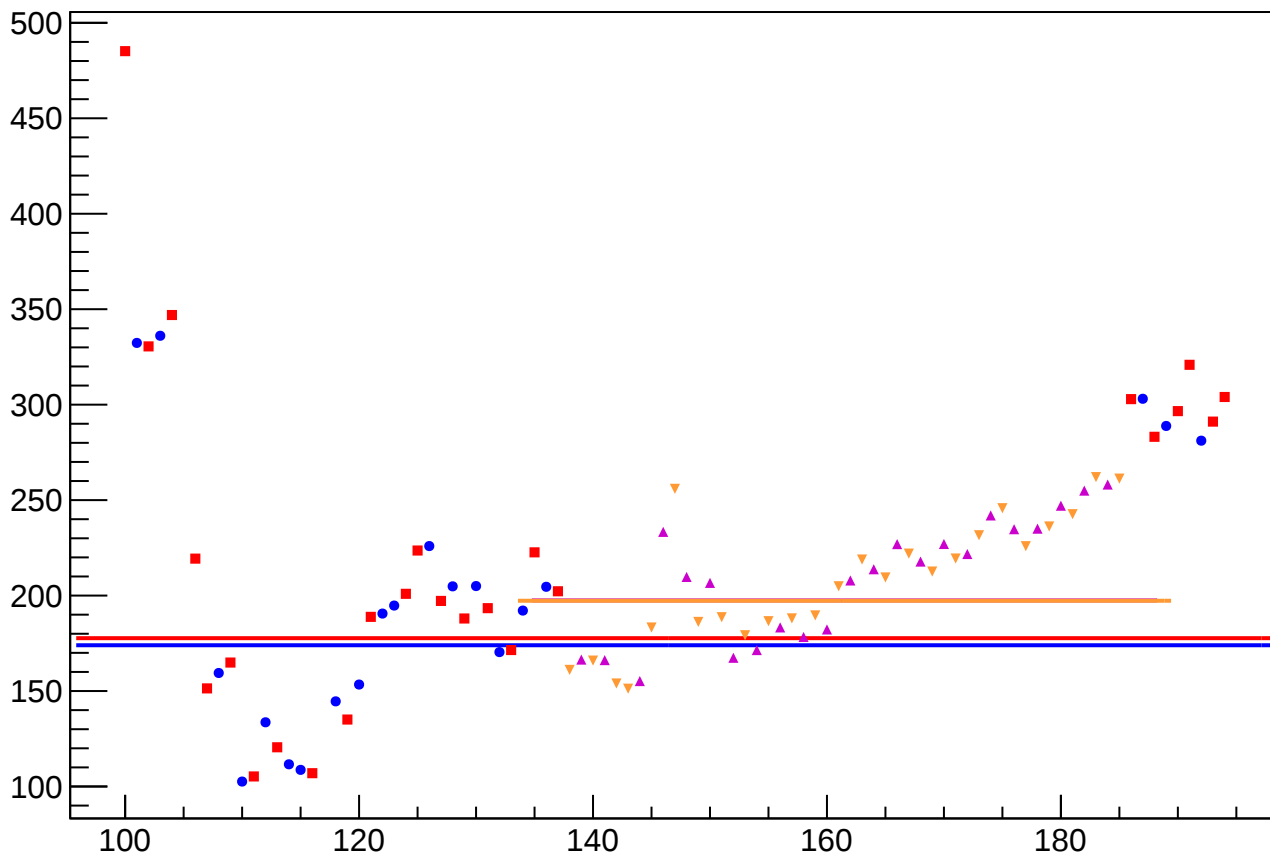
All: 468.262 $\pm$ 0.050 χ^2 /NDF: 7645432.3/92

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135332.601 $\pm$ 0.066	χ^2 /NDF: 4595081849.8/19	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135349.760 $\pm$ 0.044	χ^2 /NDF: 9666204924.5/19
Right Out: 135364.035 $\pm$ 0.060	χ^2 /NDF: 5070997548.0/24	In: 130200.513 $\pm$ 0.039	χ^2 /NDF: 14331102022.7/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130475.237 $\pm$ 0.037	χ^2 /NDF: 16167739568.3/19
		All: 130345.256 $\pm$ 0.027	χ^2 /NDF: 305250963.0/19

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 173.984 $\pm$ 0.046 χ^2 /NDF: 1734021.7/19

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 177.687 $\pm$ 0.042 χ^2 /NDF: 2631657.1/24

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

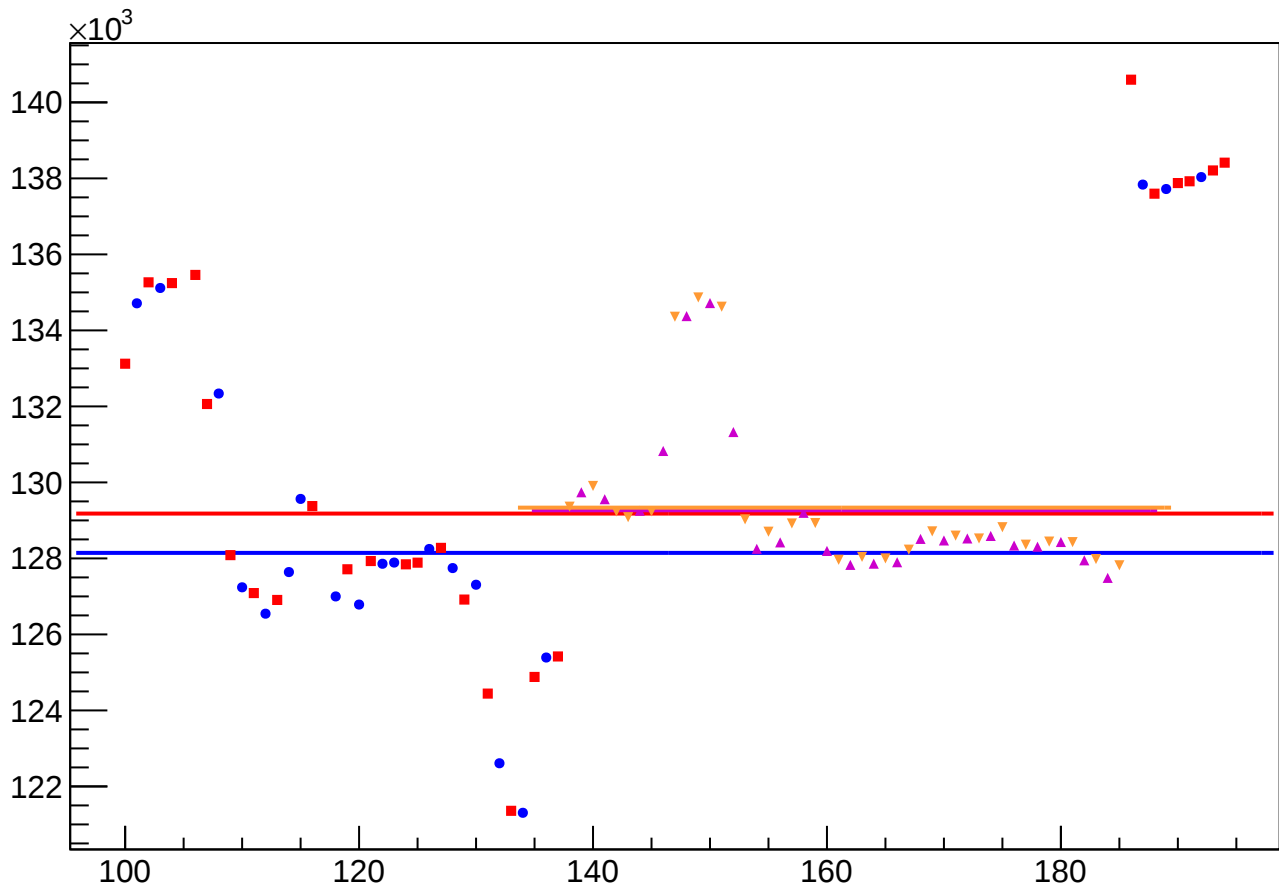
Right: 176.006 $\pm$ 0.031 χ^2 /NDF: 4369163.6/44

In: 189.192 $\pm$ 0.028 χ^2 /NDF: 2691856.2/42

Out: 189.831 $\pm$ 0.026 χ^2 /NDF: 3616864.5/49

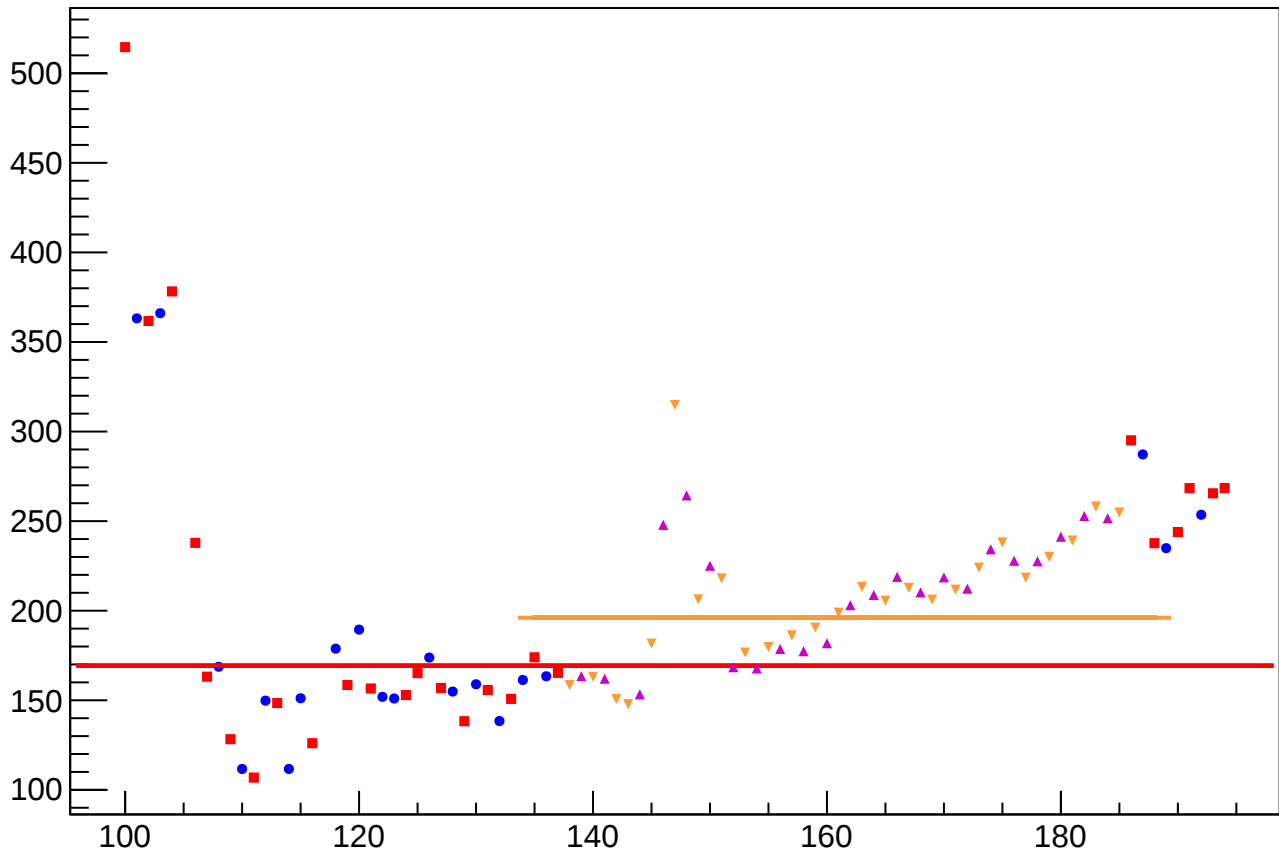
All: 189.529 $\pm$ 0.019 χ^2 /NDF: 6309004.1/92

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 128145.389 $\pm$ 0.063	χ^2 /NDF: 4308826385.1/19	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/4
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 128720.826 $\pm$ 0.042	χ^2 /NDF: 11540118455.9/4
Right Out: 129179.866 $\pm$ 0.056	χ^2 /NDF: 7081825606.0/24	In: 128854.208 $\pm$ 0.038	χ^2 /NDF: 5722192484.7/42
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129272.372 $\pm$ 0.036	χ^2 /NDF: 8537303788.4/4
		All: 129076.282 $\pm$ 0.026	χ^2 /NDF: 143228602

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 169.258+/-0.045 χ^2/NDF : 1300231.7/19

Left Out: 196.077+/-0.033 χ^2/NDF : 975710.9/24

Right Out: 169.551+/-0.040 χ^2/NDF : 2068920.4/24

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

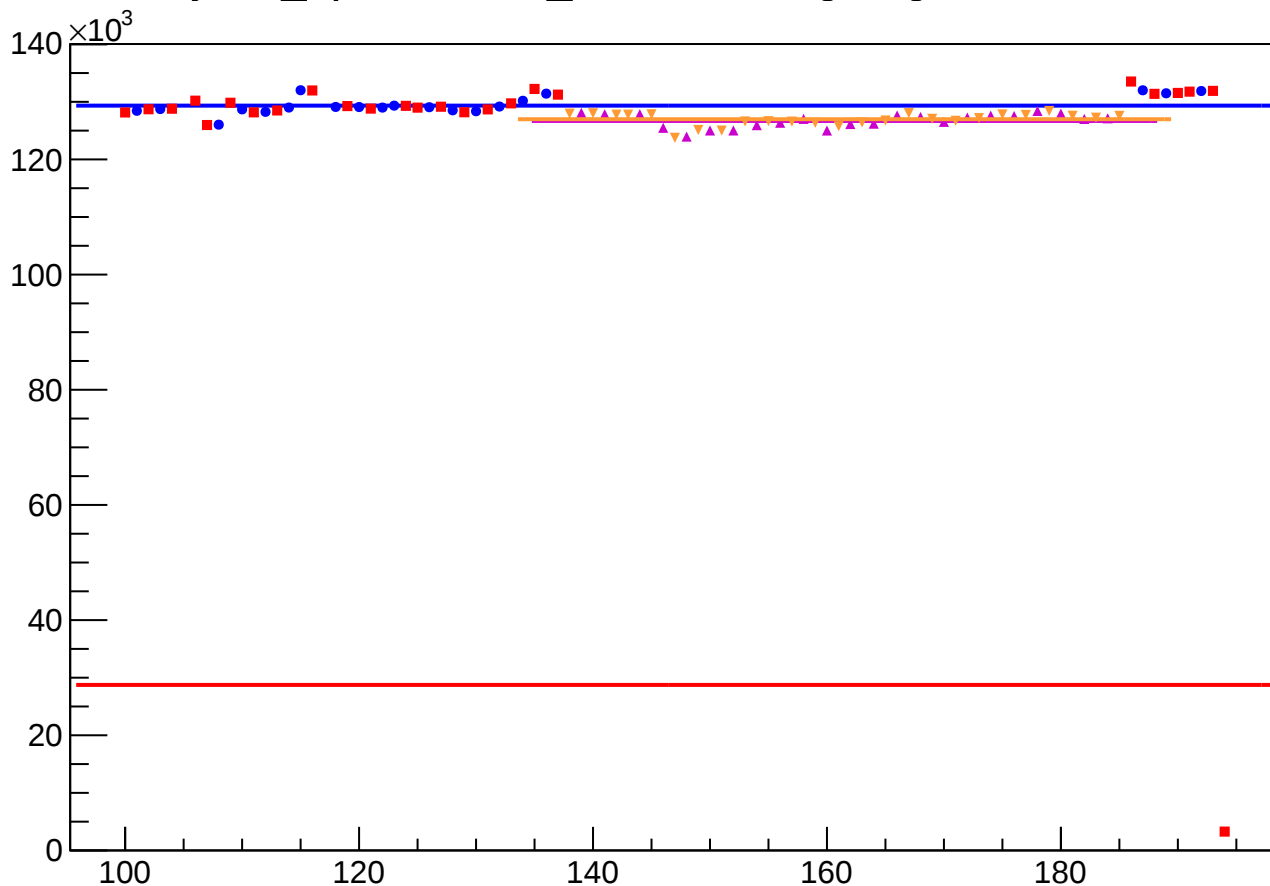
Right: 169.421+/-0.030 χ^2/NDF : 3369176.0/44

In: 186.277+/-0.027 χ^2/NDF : 2428427.3/42

Out: 185.273+/-0.025 χ^2/NDF : 3307165.0/49

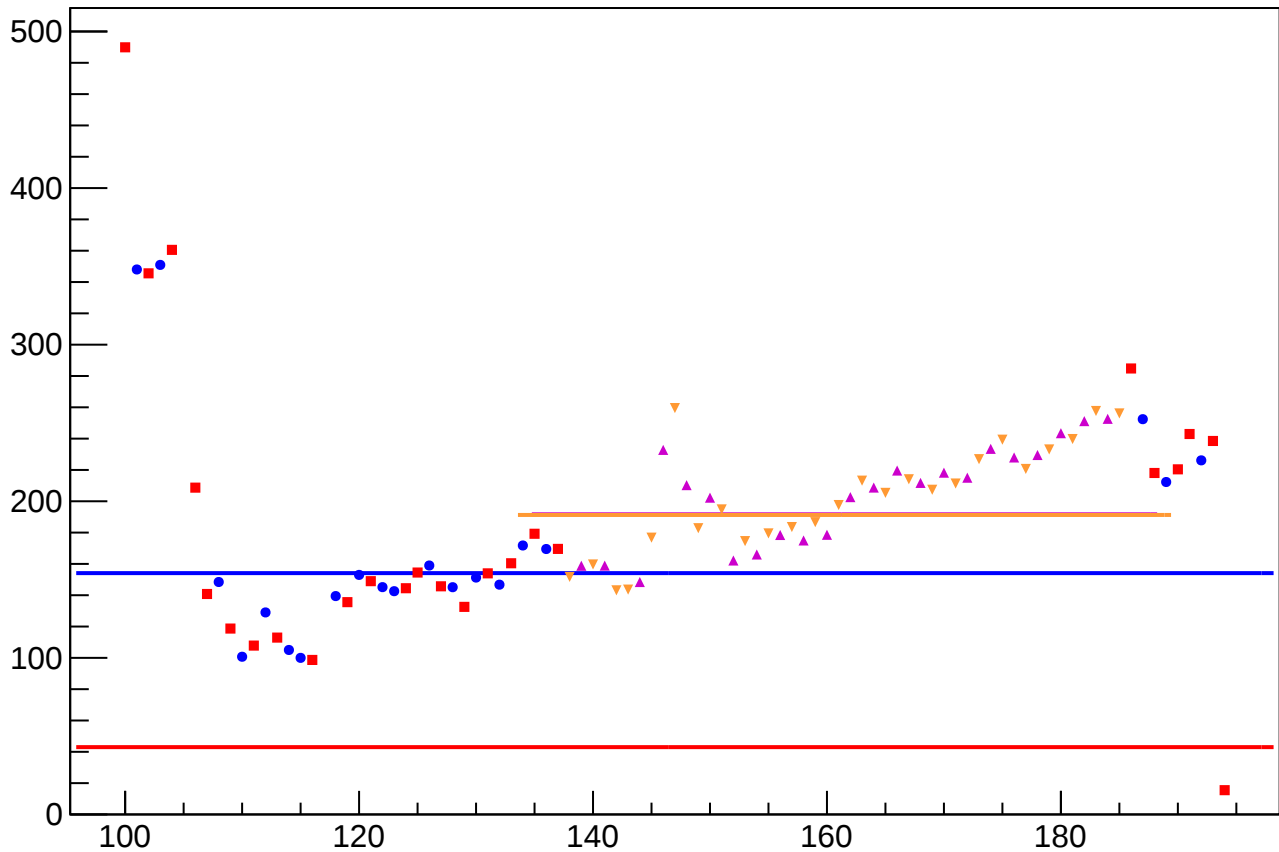
All: 185.744+/-0.019 χ^2/NDF : 5736323.4/92

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129340.365 $\pm$ 0.057	χ^2 /NDF: 675706307.9/19	Left: 126836.943 $\pm$ 0.033	χ^2 /NDF: 1211882944.2/4
Left Out: 126981.724 $\pm$ 0.046	χ^2 /NDF: 530573115.8/24	Right: 43323.365 $\pm$ 0.022	χ^2 /NDF: 7282607565420
Right Out: 28746.031 $\pm$ 0.024	χ^2 /NDF: 4634570011447.8/24	In: 127754.285 $\pm$ 0.036	χ^2 /NDF: 2625818611.6/42
Left In: 126682.659 $\pm$ 0.047	χ^2 /NDF: 660415880.0/22	Out: 49465.419 $\pm$ 0.021	χ^2 /NDF: 8309682266688.7
		All: 68963.458 $\pm$ 0.018	χ^2 /NDF: 1180474722

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 154.115 $\pm$ 0.040 χ^2 /NDF: 1400438.9/19

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF:992566.2/24

Right Out: 42.991 $\pm$ 0.017 χ^2 /NDF: 12734696.0/24

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF:864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

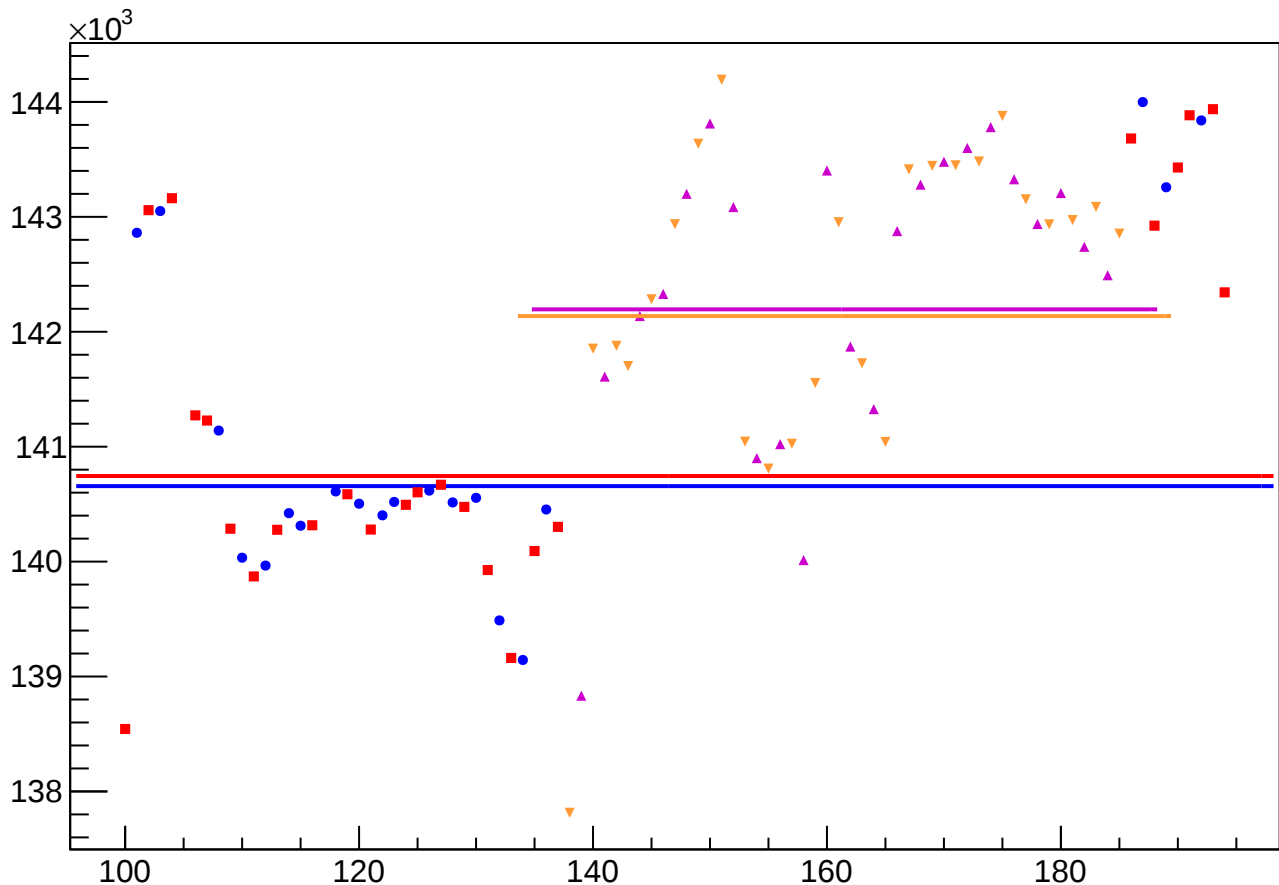
Right: 59.094 $\pm$ 0.015 χ^2 /NDF: 20596353.1/44

In: 176.535 $\pm$ 0.026 χ^2 /NDF:2780197.2/42

Out: 74.264 $\pm$ 0.015 χ^2 /NDF:30469666.6/49

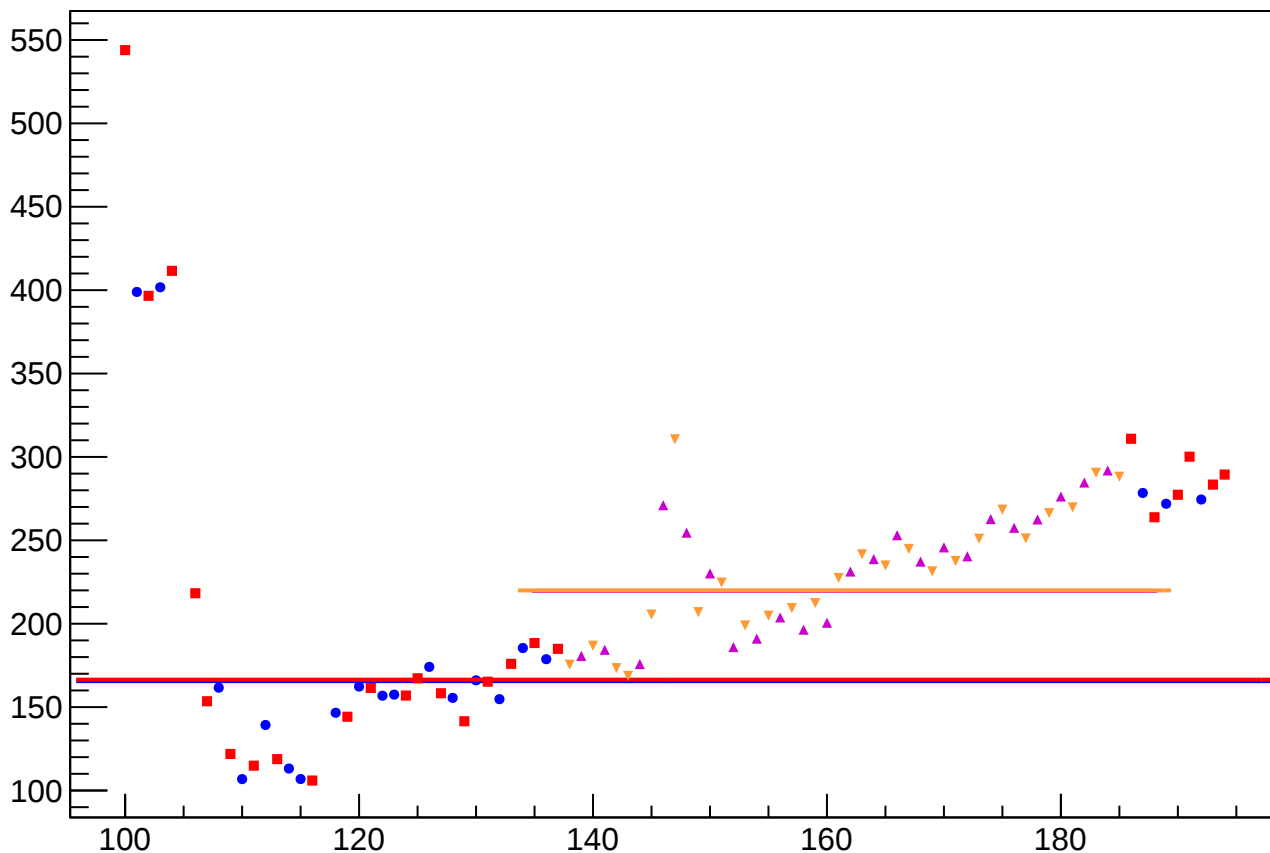
All: 99.735 $\pm$ 0.013 χ^2 /NDF: 45169540.6/92

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140656.828+/-0.062	χ^2/NDF : 290390310.8/19	Left: 142164.953+/-0.038	χ^2/NDF : 1460209902.9/4
Left Out: 142136.579+/-0.052	χ^2/NDF : 815573343.0/24	Right: 140705.306+/-0.041	χ^2/NDF : 697856426.3/4
Right Out: 140744.675+/-0.056	χ^2/NDF : 406354429.5/24	In: 141532.133+/-0.041	χ^2/NDF : 1285883227.3/42
Left In: 142195.020+/-0.054	χ^2/NDF : 644030906.9/22	Out: 141485.015+/-0.038	χ^2/NDF : 1553167203.3/4
		All: 141507.098+/-0.028	χ^2/NDF : 283976493

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 165.569 $\pm$ 0.044 χ^2 /NDF: 1675084.7/19

Left Out: 219.969 $\pm$ 0.037 χ^2 /NDF:866616.3/24

Right Out: 166.463 $\pm$ 0.039 χ^2 /NDF: 2635493.0/24

Left In: 219.685 $\pm$ 0.038 χ^2 /NDF:812745.1/22

Left: 219.831 $\pm$ 0.027 χ^2 /NDF: 1679390.1/47

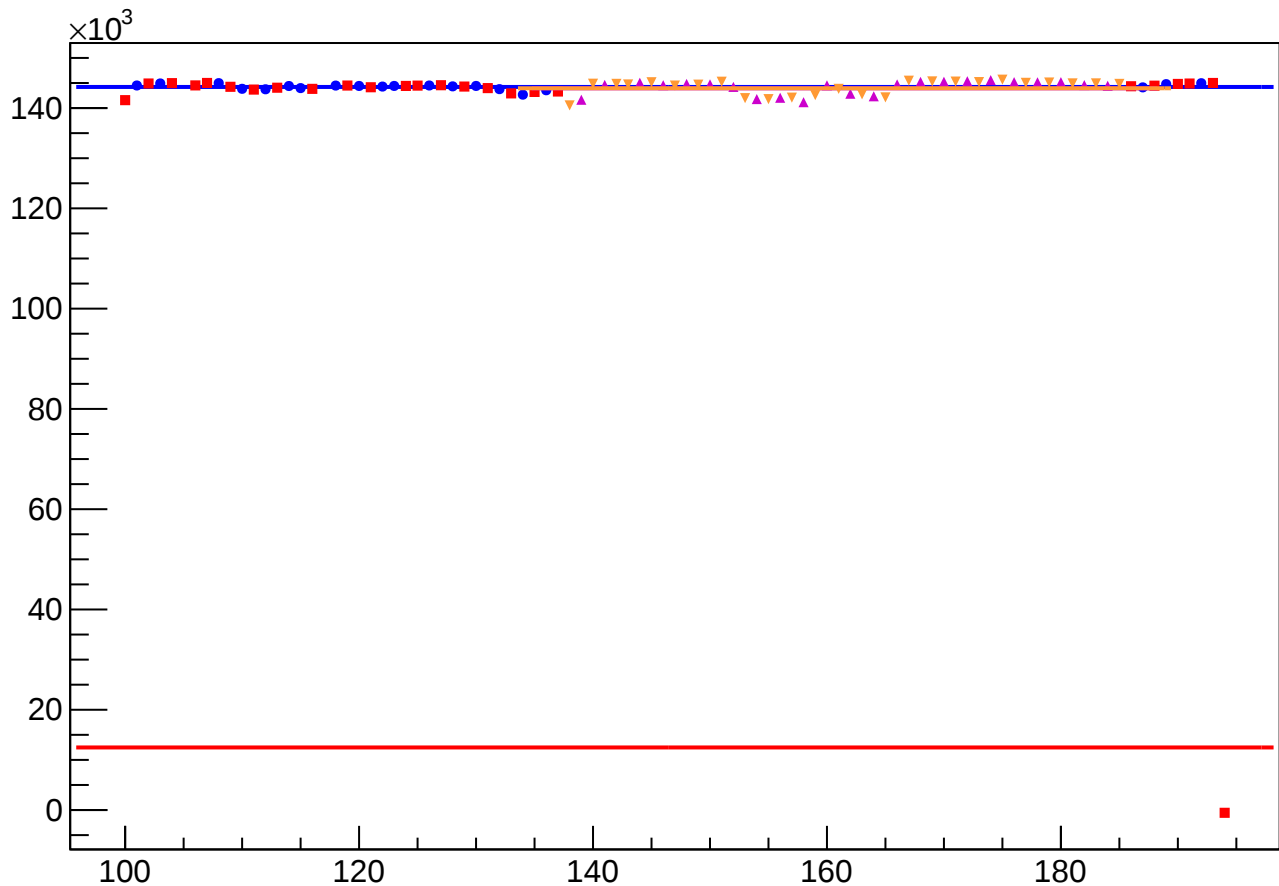
Right: 166.062 $\pm$ 0.029 χ^2 /NDF: 4310808.2/44

In: 196.363 $\pm$ 0.029 χ^2 /NDF:3357869.3/42

Out: 194.922 $\pm$ 0.027 χ^2 /NDF:4481058.3/49

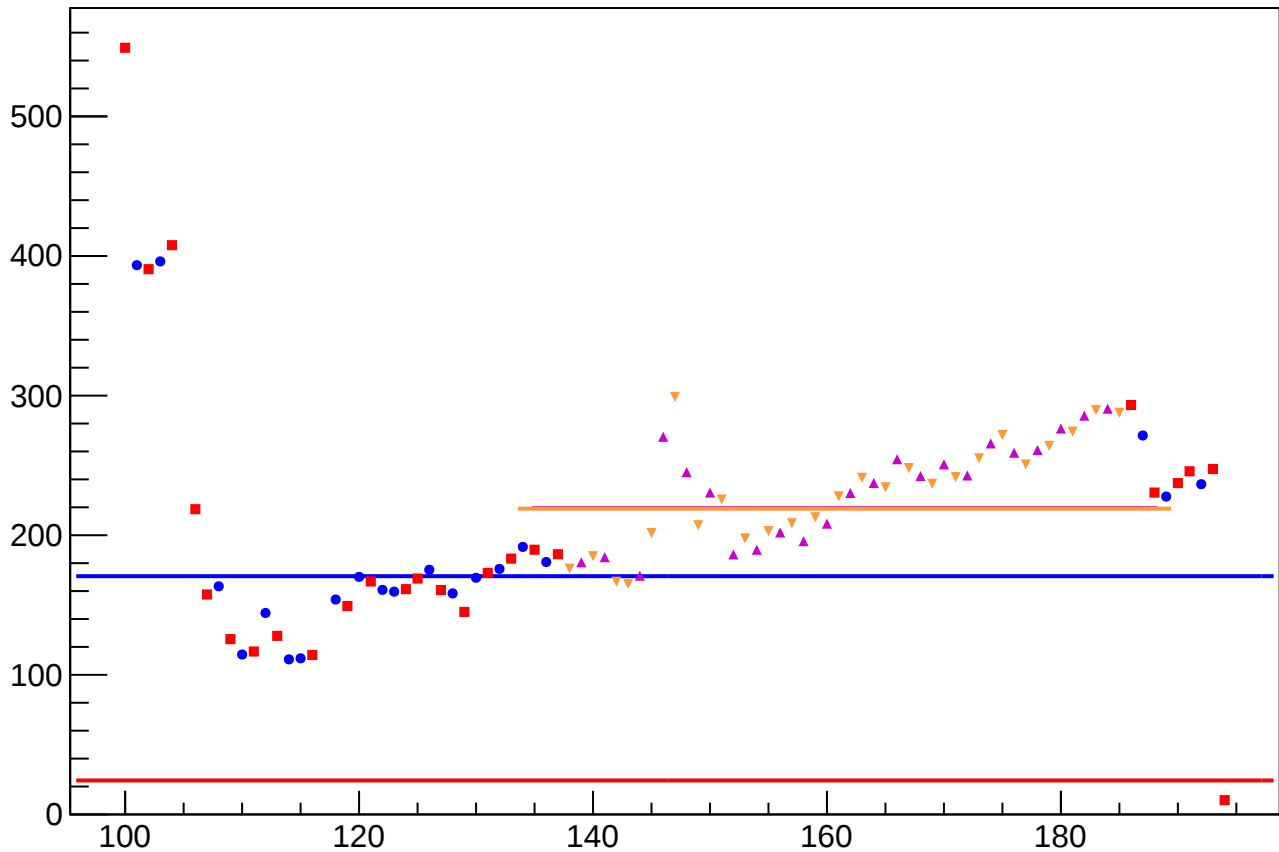
All: 195.598 $\pm$ 0.020 χ^2 /NDF: 7840263.7/92

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144212.067 $\pm$ 0.063	χ^2 /NDF: 60348289.7/19	Left: 143944.995 $\pm$ 0.037	χ^2 /NDF: 1584524299.4/4
Left Out: 143951.284 $\pm$ 0.052	χ^2 /NDF: 864679545.2/24	Right: 21609.103 $\pm$ 0.017	χ^2 /NDF: 9842702771225
Right Out: 12482.074 $\pm$ 0.017	χ^2 /NDF: 5788132538045.9/24	In: 144053.607 $\pm$ 0.041	χ^2 /NDF: 791054056.1/42
Left In: 143938.288 $\pm$ 0.054	χ^2 /NDF: 719814685.6/22	Out: 25413.932 $\pm$ 0.016	χ^2 /NDF: 11522357641322
		All: 41720.887 $\pm$ 0.015	χ^2 /NDF: 1875910473

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 170.666 $\pm$ 0.045 χ^2 /NDF: 1339735.8/19

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 24.363 $\pm$ 0.012 χ^2 /NDF: 15401686.6/24

Left In: 219.426 $\pm$ 0.038 χ^2 /NDF:850089.5/22

Left: 219.232 $\pm$ 0.026 χ^2 /NDF: 1784557.4/47

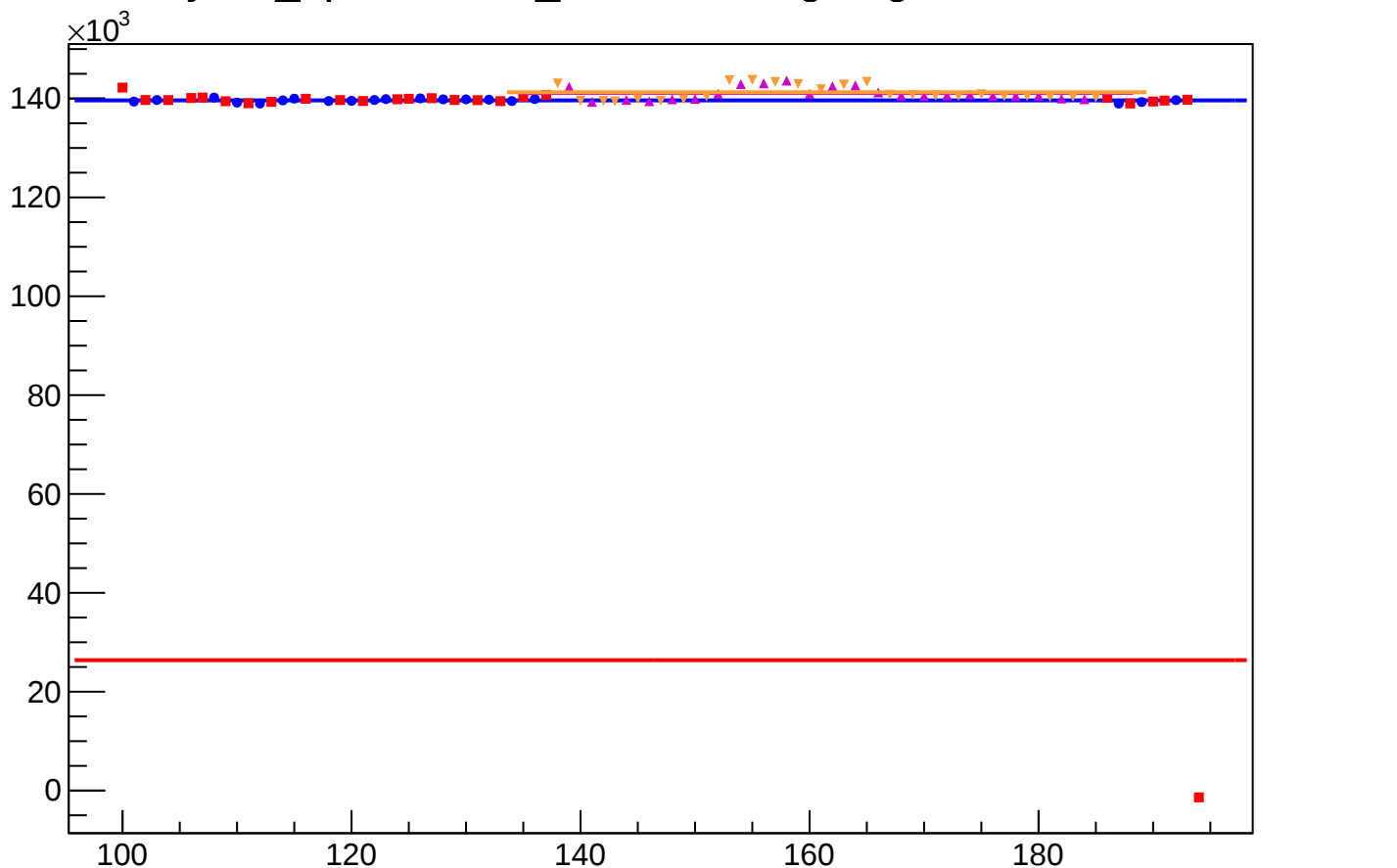
Right: 34.500 $\pm$ 0.012 χ^2 /NDF: 26743819.1/44

In: 198.887 $\pm$ 0.029 χ^2 /NDF:2880749.2/42

Out: 43.513 $\pm$ 0.012 χ^2 /NDF:41481815.9/49

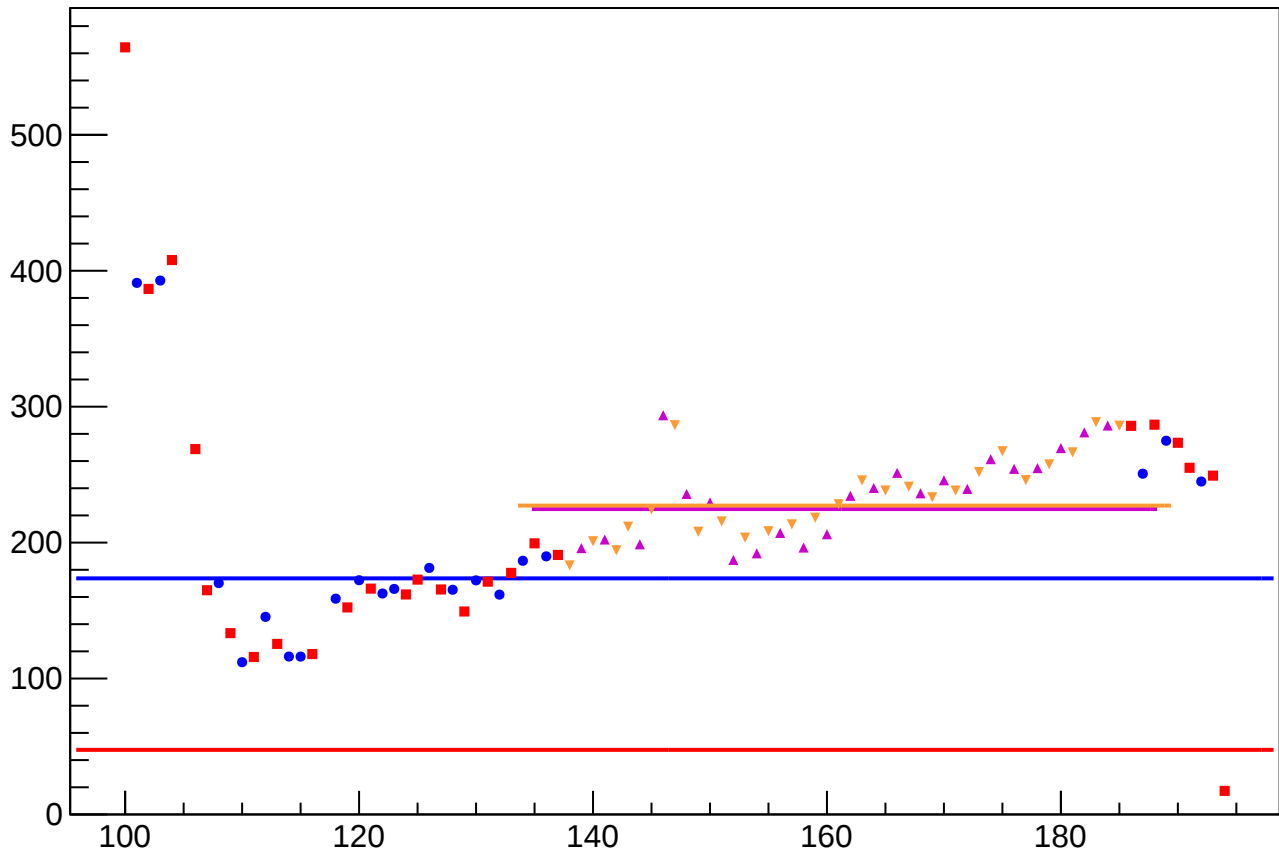
All: 64.869 $\pm$ 0.011 χ^2 /NDF: 69183848.8/92

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139621.127 $\pm$ 0.064	χ^2 /NDF: 26584894.1/19	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/4
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: 42447.907 $\pm$ 0.024	χ^2 /NDF: 7218592088059
Right Out: 26379.563 $\pm$ 0.026	χ^2 /NDF: 4571809115506.3/24	In: 140489.567 $\pm$ 0.042	χ^2 /NDF: 904877809.5/42
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: 48497.498 $\pm$ 0.024	χ^2 /NDF: 8268851187257.
		All: 70672.072 $\pm$ 0.021	χ^2 /NDF: 1194434151

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 173.692 $\pm$ 0.046 χ^2 /NDF: 1408825.2/19

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF: 484955.3/24

Right Out: 47.530 $\pm$ 0.019 χ^2 /NDF: 12846776.6/24

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

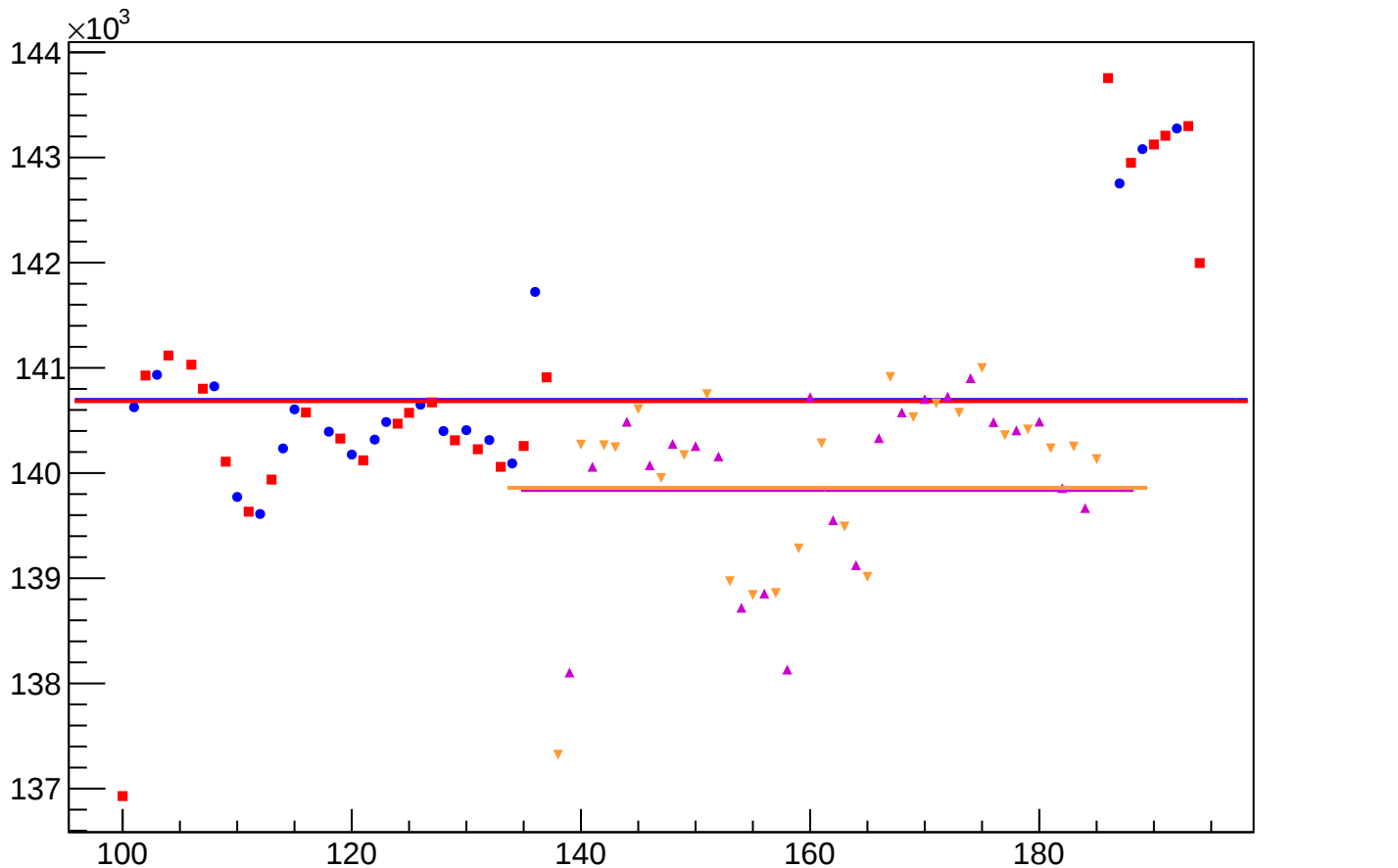
Right: 65.432 $\pm$ 0.017 χ^2 /NDF: 20825956.9/44

In: 203.248 $\pm$ 0.030 χ^2 /NDF: 2712225.4/42

Out: 82.124 $\pm$ 0.017 χ^2 /NDF: 31415899.8/49

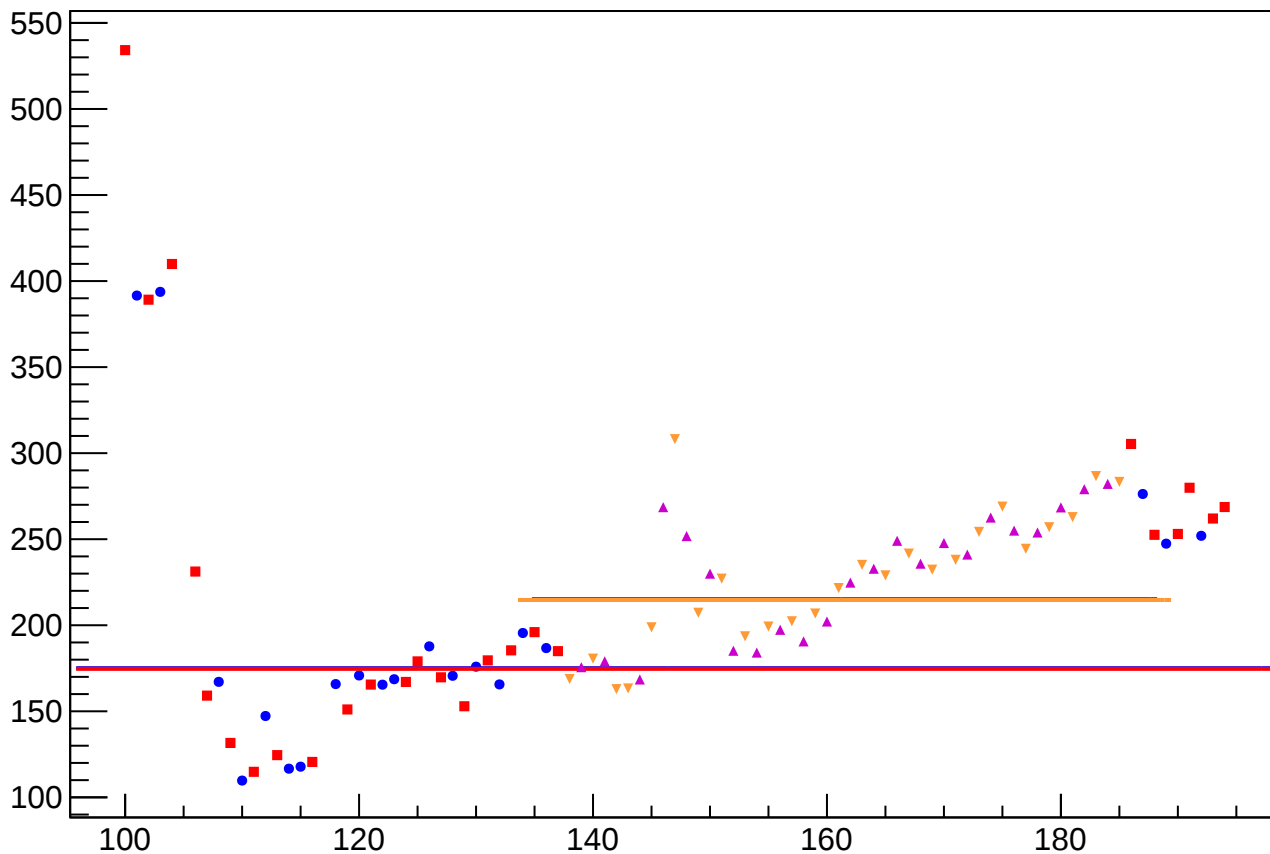
All: 111.321 $\pm$ 0.015 χ^2 /NDF: 46868988.4/92

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140694.901+/-0.065	$\chi^2/\text{NDF}: 234076149.3/19$	Left: 139849.553+/-0.037	$\chi^2/\text{NDF}: 609773442.9/47$
Left Out: 139859.696+/-0.051	$\chi^2/\text{NDF}: 330118281.5/24$	Right: 140688.320+/-0.043	$\chi^2/\text{NDF}: 568809490.8/4$
Right Out: 140683.100+/-0.058	$\chi^2/\text{NDF}: 334714927.3/24$	In: 140179.420+/-0.041	$\chi^2/\text{NDF}: 618286809.4/42$
Left In: 139838.724+/-0.053	$\chi^2/\text{NDF}: 279573689.3/22$	Out: 140220.621+/-0.038	$\chi^2/\text{NDF}: 778658613.4/49$
		All: 140201.409+/-0.028	$\chi^2/\text{NDF}: 139748520$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 175.050 $\pm$ 0.046 χ^2 /NDF: 1403218.5/19

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 174.686 $\pm$ 0.041 χ^2 /NDF: 2183533.5/24

Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

Left: 214.949 $\pm$ 0.026 χ^2 /NDF: 1863154.2/47

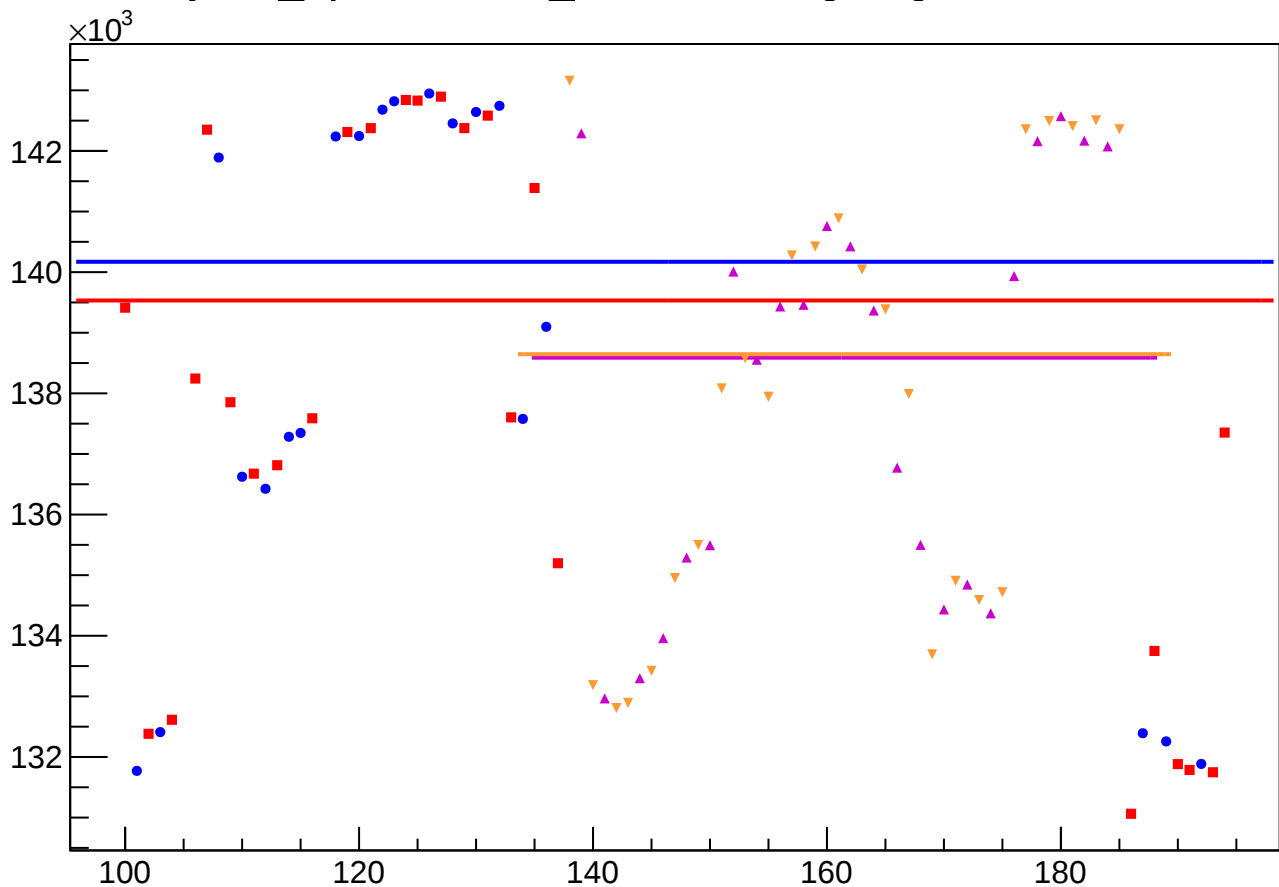
Right: 174.847 $\pm$ 0.031 χ^2 /NDF: 3586787.1/44

In: 199.236 $\pm$ 0.029 χ^2 /NDF: 2745874.8/42

Out: 197.156 $\pm$ 0.027 χ^2 /NDF: 3702063.4/49

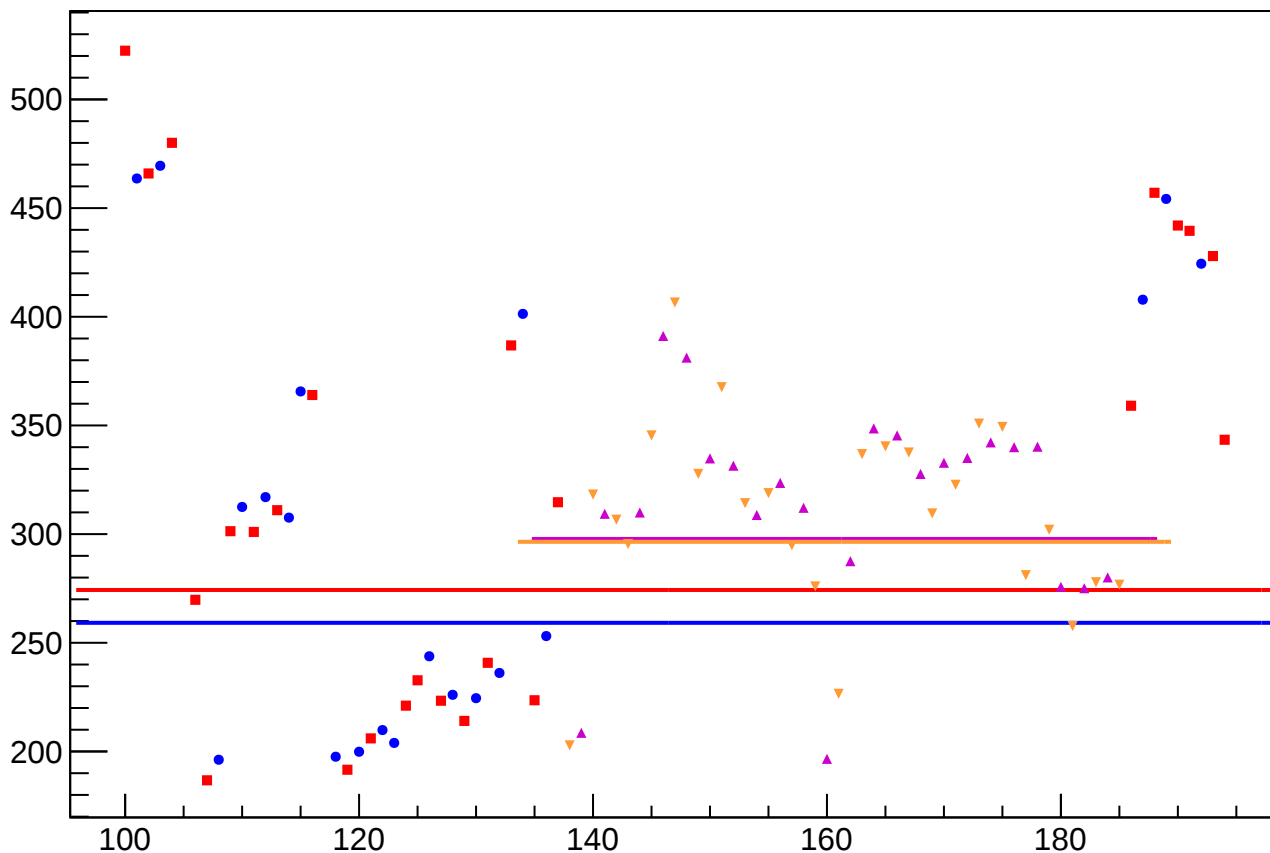
All: 198.126 $\pm$ 0.020 χ^2 /NDF: 6450689.8/92

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140170.839 $\pm$ 0.096	χ^2 /NDF: 1405037986.4/19	Left: 138618.660 $\pm$ 0.051	χ^2 /NDF: 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	Right: 139831.118 $\pm$ 0.066	χ^2 /NDF: 3193289487.3/
Right Out: 139532.420 $\pm$ 0.090	χ^2 /NDF: 1764867925.6/24	In: 139172.667 $\pm$ 0.059	χ^2 /NDF: 3523369875.3/42
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 138983.962 $\pm$ 0.056	χ^2 /NDF: 4373095664.5/4
		All: 139073.746 $\pm$ 0.040	χ^2 /NDF: 790191828

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 259.193 $\pm$ 0.068 χ^2 /NDF: 1393472.4/19

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF: 893579.7/24

Right Out: 274.300 $\pm$ 0.064 χ^2 /NDF: 1876571.7/24

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF: 1061489.5/22

Left: 297.094 $\pm$ 0.036 χ^2 /NDF: 1955397.8/47

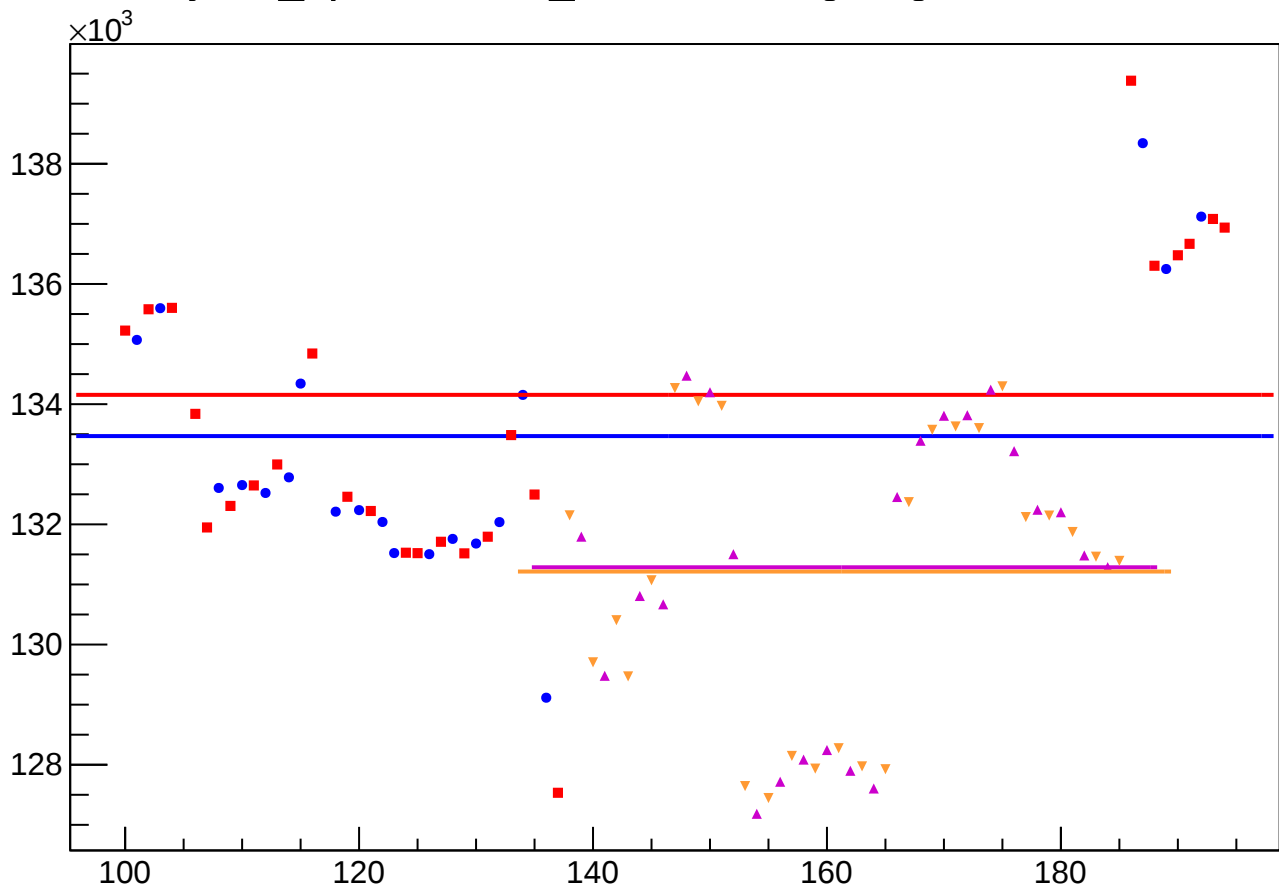
Right: 267.232 $\pm$ 0.047 χ^2 /NDF: 3296231.5/44

In: 283.534 $\pm$ 0.041 χ^2 /NDF: 2657463.2/42

Out: 288.020 $\pm$ 0.039 χ^2 /NDF: 2844725.7/49

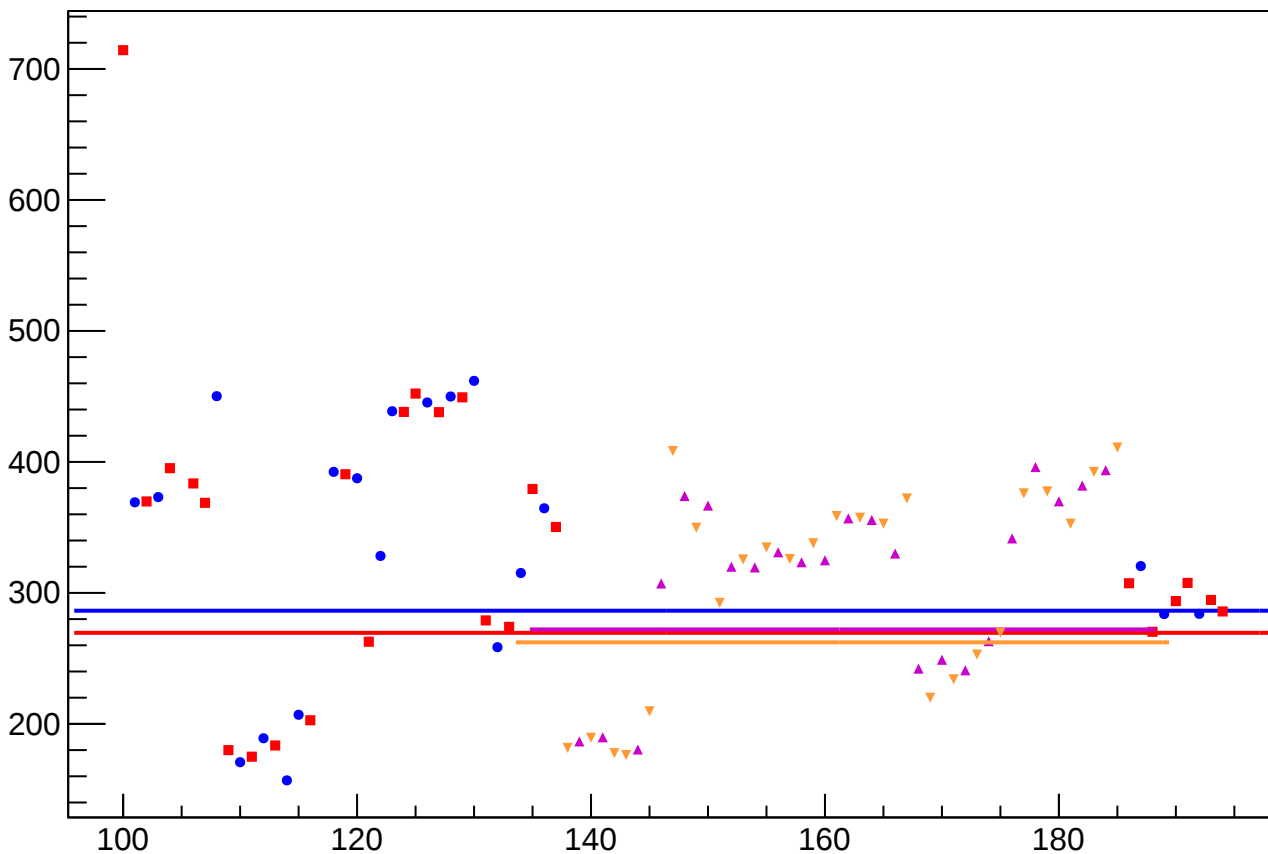
All: 285.886 $\pm$ 0.029 χ^2 /NDF: 5508350.5/92

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133469.017 $\pm$ 0.106	χ^2 /NDF: 448681047.0/19	Left: 131248.166 $\pm$ 0.047	χ^2 /NDF: 2230223308.9/4
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	Right: 133875.072 $\pm$ 0.068	χ^2 /NDF: 1126071433.1/4
Right Out: 134155.058 $\pm$ 0.088	χ^2 /NDF: 652764001.1/24	In: 131923.595 $\pm$ 0.057	χ^2 /NDF: 1803207137.5/42
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132233.864 $\pm$ 0.052	χ^2 /NDF: 2550363627.3/4
		All: 132094.279 $\pm$ 0.039	χ^2 /NDF: 436959316

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.415 $\pm$ 0.075 χ^2 /NDF: 1517502.8/19

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF:2818169.1/24

Right Out: 269.526 $\pm$ 0.062 χ^2 /NDF: 1666170.2/24

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF:2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

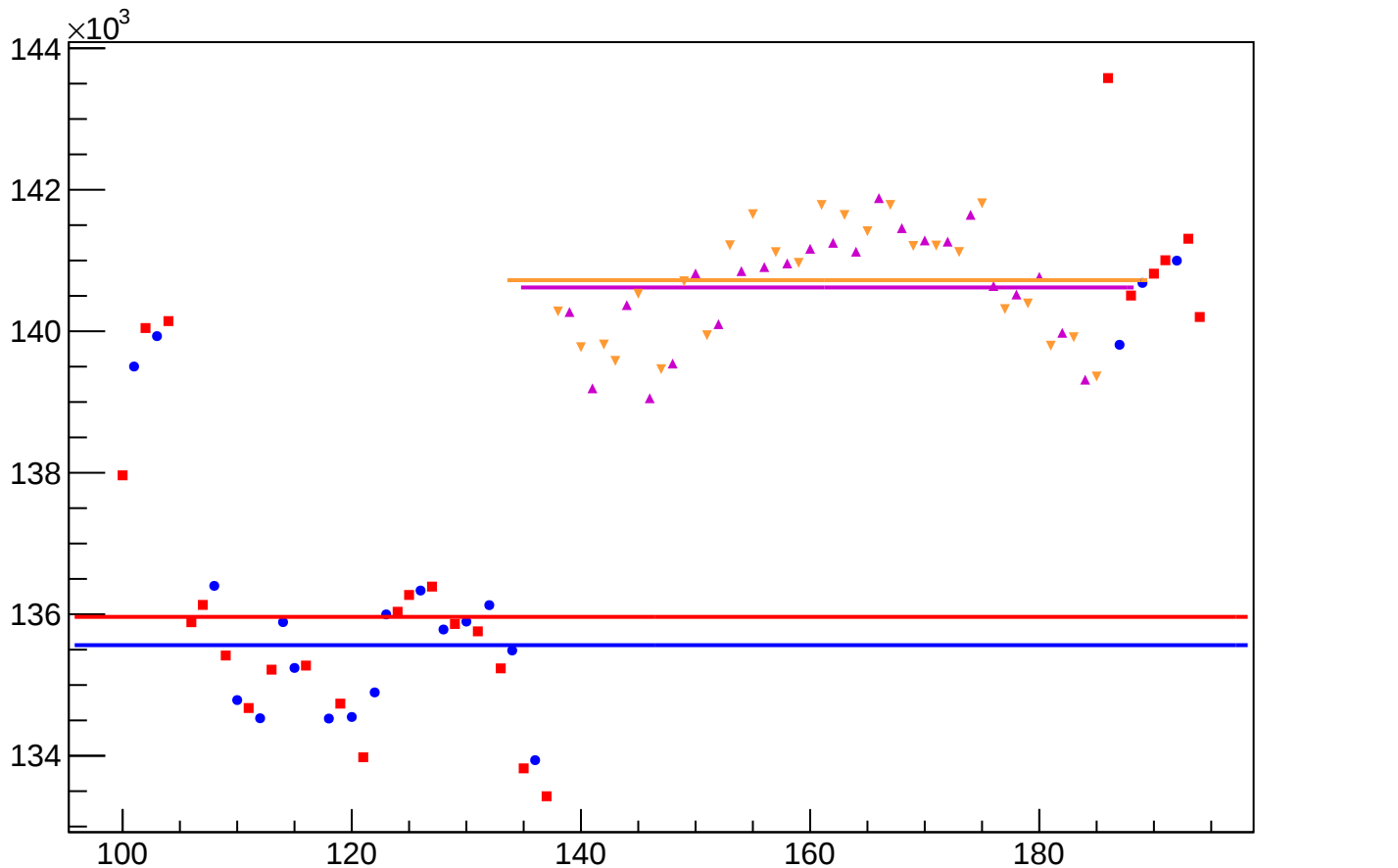
Right: 276.419 $\pm$ 0.048 χ^2 /NDF: 3213522.2/44

In: 276.293 $\pm$ 0.041 χ^2 /NDF:3765019.9/42

Out: 264.778 $\pm$ 0.037 χ^2 /NDF:4493186.7/49

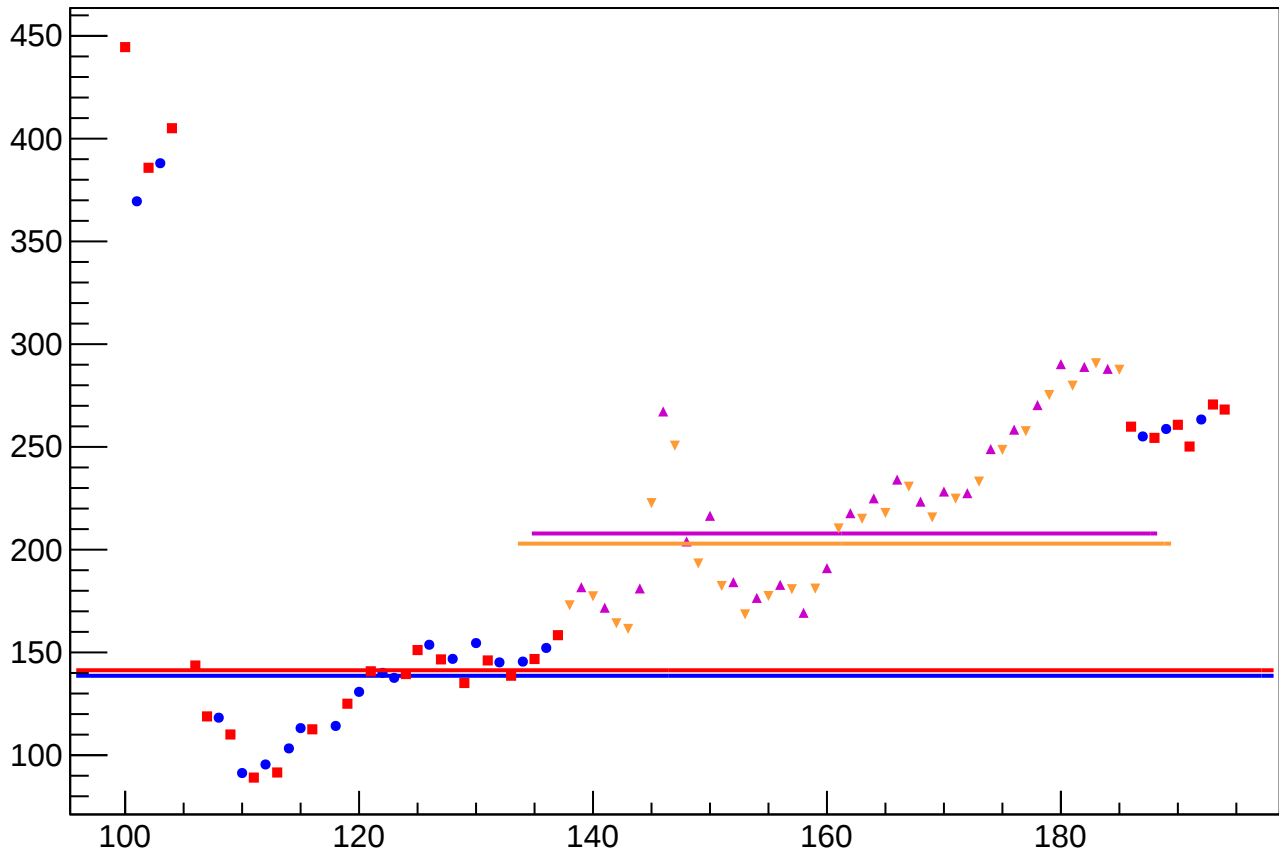
All: 269.958 $\pm$ 0.027 χ^2 /NDF: 8302346.5/92

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135563.411 $\pm$ 0.053	χ^2 /NDF: 1026089884.4/19	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 135781.602 $\pm$ 0.036	χ^2 /NDF: 2899848181.2/4
Right Out: 135963.415 $\pm$ 0.048	χ^2 /NDF: 1842337616.5/24	In: 138170.037 $\pm$ 0.037	χ^2 /NDF: 5970728131.0/42
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138328.011 $\pm$ 0.034	χ^2 /NDF: 6950794844.2/4
		All: 138254.725 $\pm$ 0.025	χ^2 /NDF: 129314656

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.634 $\pm$ 0.037 χ^2 /NDF: 2092147.6/19

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 141.326 $\pm$ 0.034 χ^2 /NDF: 3076978.2/24

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

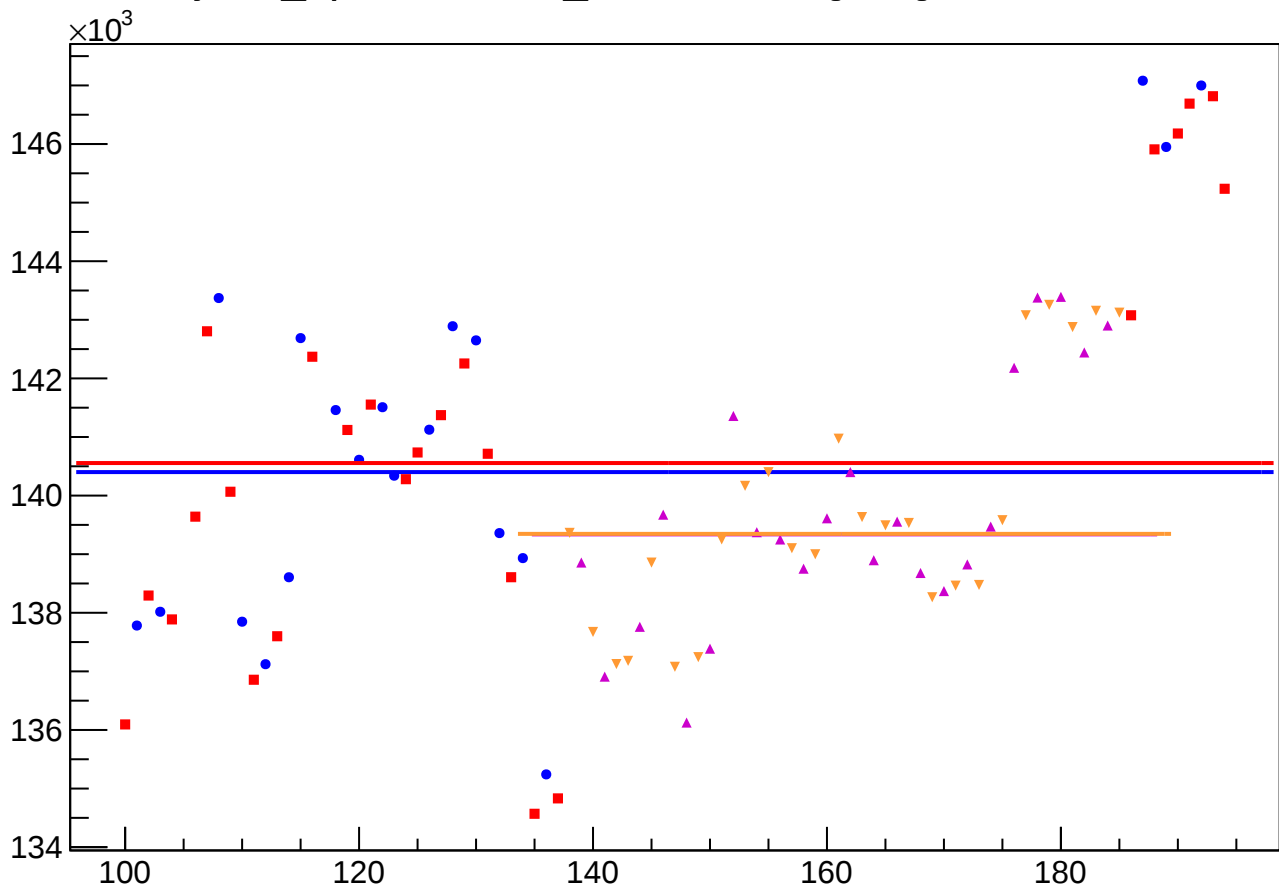
Right: 140.102 $\pm$ 0.025 χ^2 /NDF: 5171971.0/44

In: 174.332 $\pm$ 0.026 χ^2 /NDF:4820996.2/42

Out: 171.941 $\pm$ 0.024 χ^2 /NDF:5759041.3/49

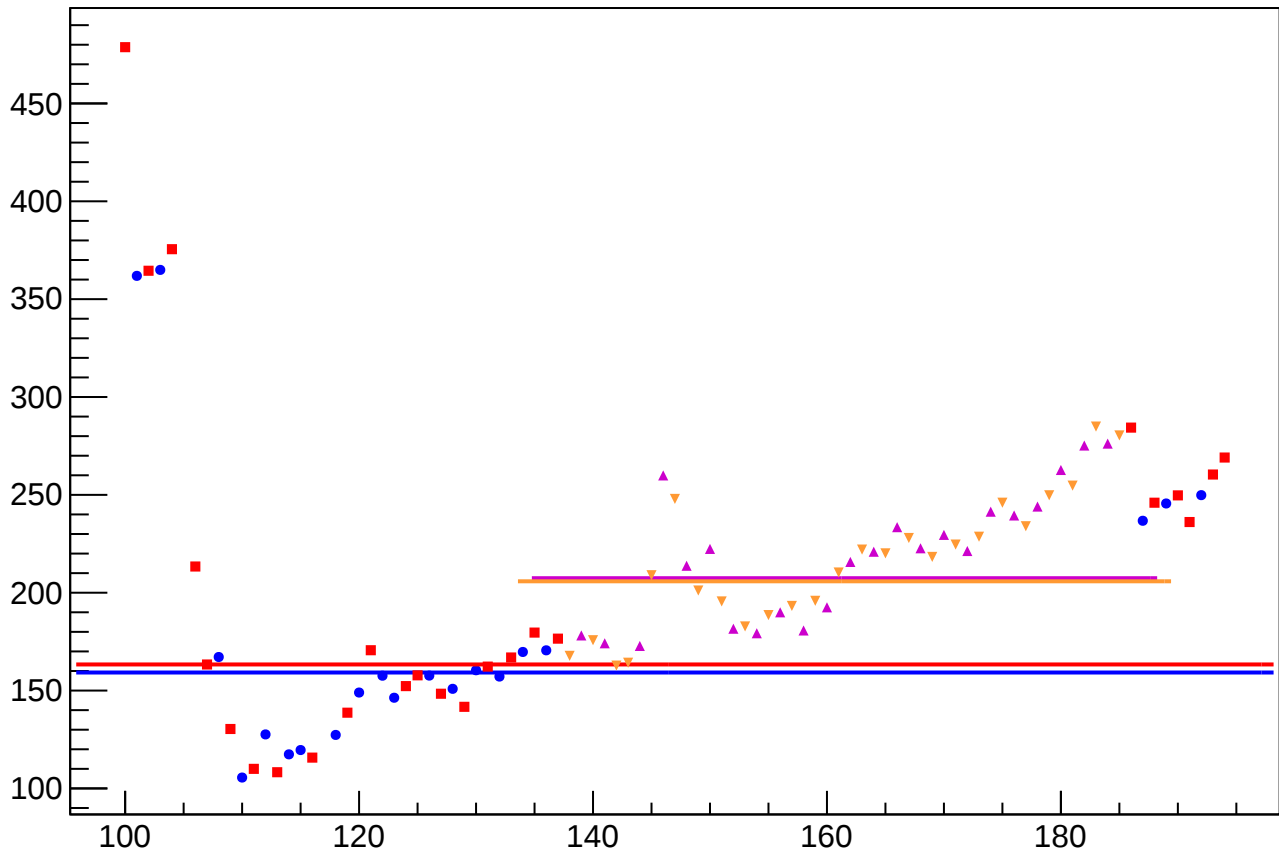
All: 173.050 $\pm$ 0.018 χ^2 /NDF: 10584595.3/92

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140401.112 $\pm$ 0.059 χ^2 /NDF: 2753363209.6/19
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 140555.433 $\pm$ 0.054 χ^2 /NDF: 3207379655.5/24
 Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22
 Left: 139342.403 $\pm$ 0.035 χ^2 /NDF: 2564192227.9/4
 Right: 140484.883 $\pm$ 0.040 χ^2 /NDF: 5964422939.8/4
 In: 139788.560 $\pm$ 0.039 χ^2 /NDF: 4231769194.5/4
 Out: 139887.724 $\pm$ 0.036 χ^2 /NDF: 4751377989.8/4
 All: 139841.045 $\pm$ 0.026 χ^2 /NDF: 898664250.0/4

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 159.228 $\pm$ 0.042 χ^2 /NDF: 1474327.9/19

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 163.344 $\pm$ 0.038 χ^2 /NDF: 2285831.8/24

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

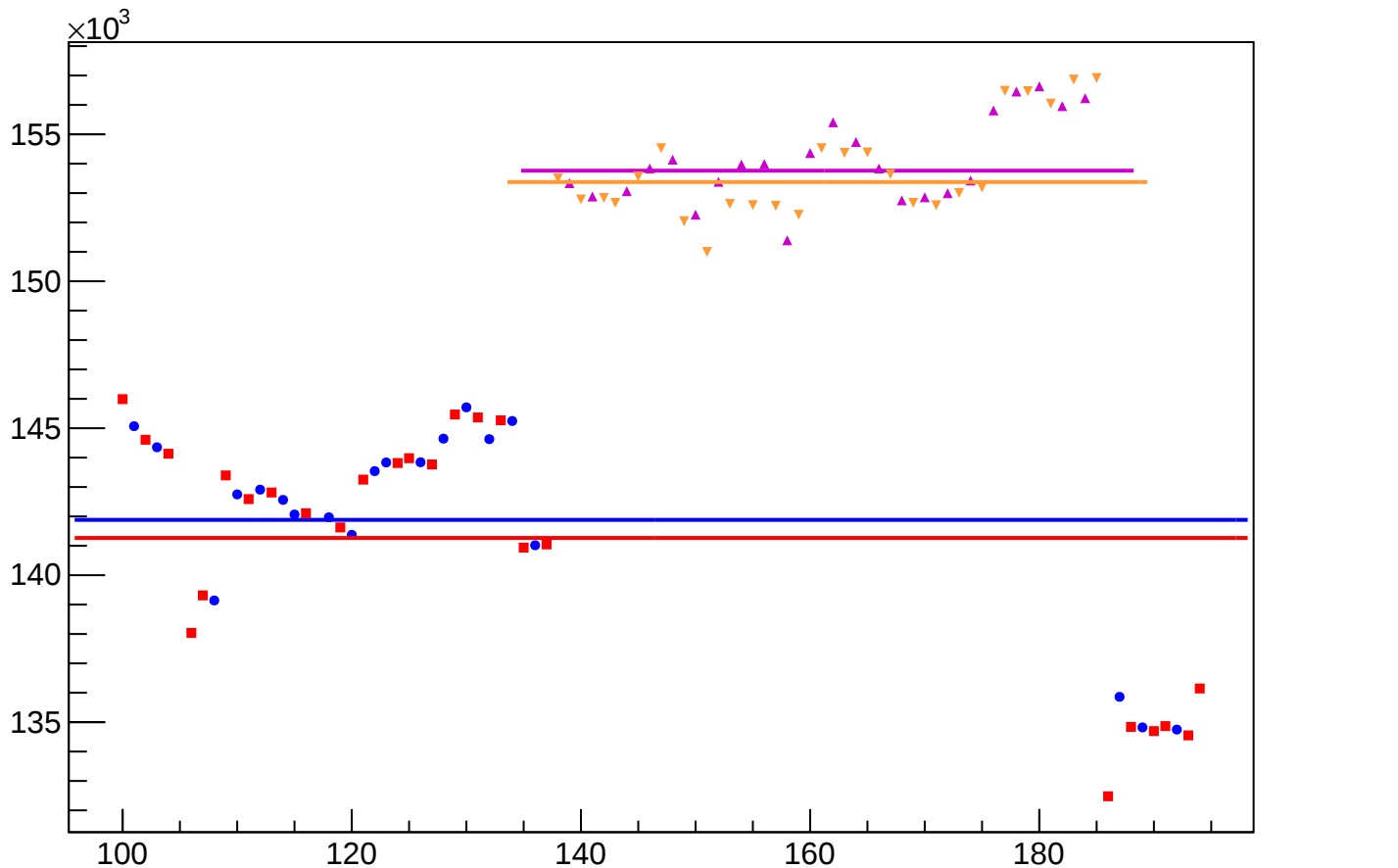
Right: 161.462 $\pm$ 0.028 χ^2 /NDF: 3765396.1/44

In: 186.990 $\pm$ 0.027 χ^2 /NDF: 2937955.6/42

Out: 186.813 $\pm$ 0.026 χ^2 /NDF: 3698611.7/49

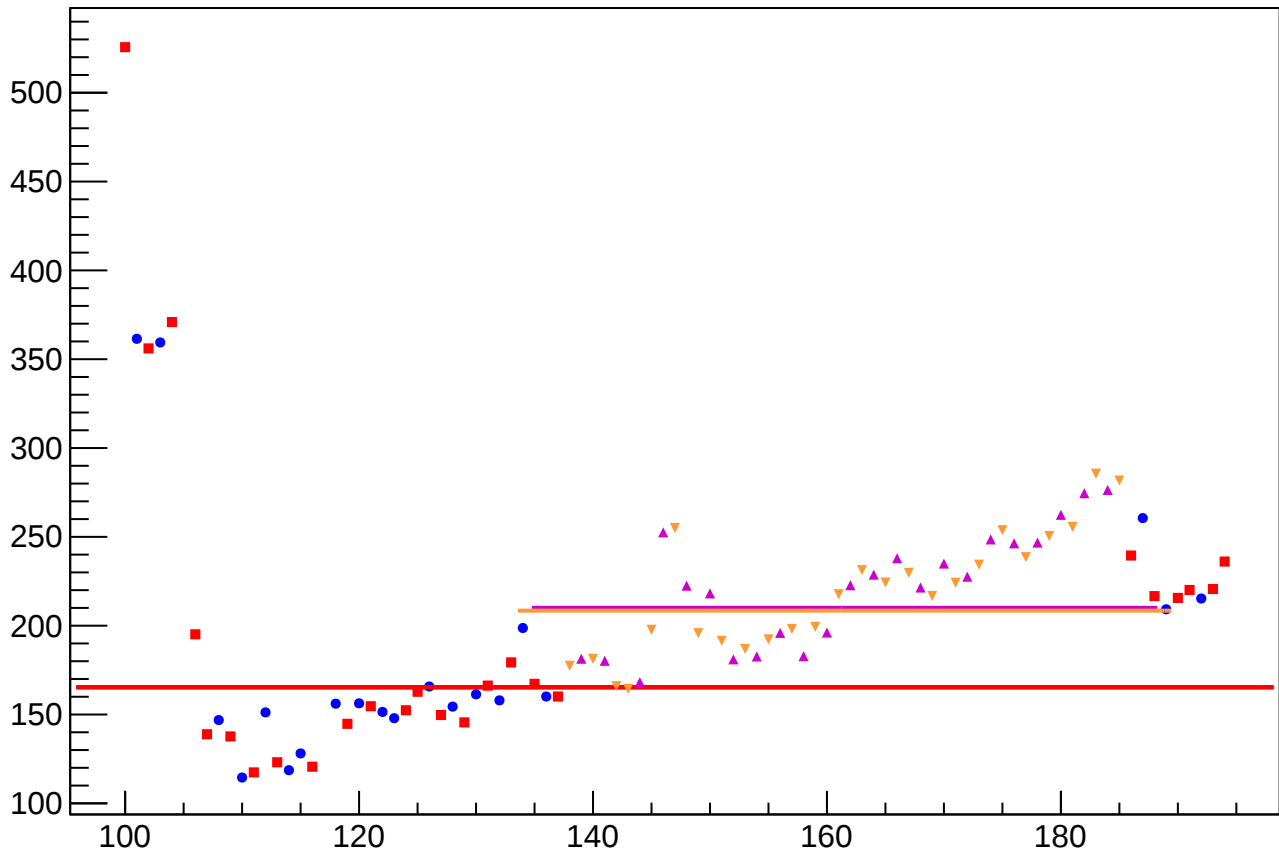
All: 186.896 $\pm$ 0.019 χ^2 /NDF: 6636589.6/92

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141882.674 $\pm$ 0.061	χ^2 /NDF: 2575546609.3/19	Left: 153562.262 $\pm$ 0.036	χ^2 /NDF: 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2 /NDF: 803848095.1/24	Right: 141539.689 $\pm$ 0.040	χ^2 /NDF: 7020290715.6/4
Right Out: 141267.425 $\pm$ 0.054	χ^2 /NDF: 4387574694.5/24	In: 148801.365 $\pm$ 0.039	χ^2 /NDF: 25478021841.7/4
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 147857.670 $\pm$ 0.037	χ^2 /NDF: 32427372039.5/4
		All: 148295.729 $\pm$ 0.027	χ^2 /NDF: 582149516.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 165.234+/-0.043 χ^2/NDF : 1087033.3/19

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 165.448+/-0.038 χ^2/NDF : 1591870.4/24

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

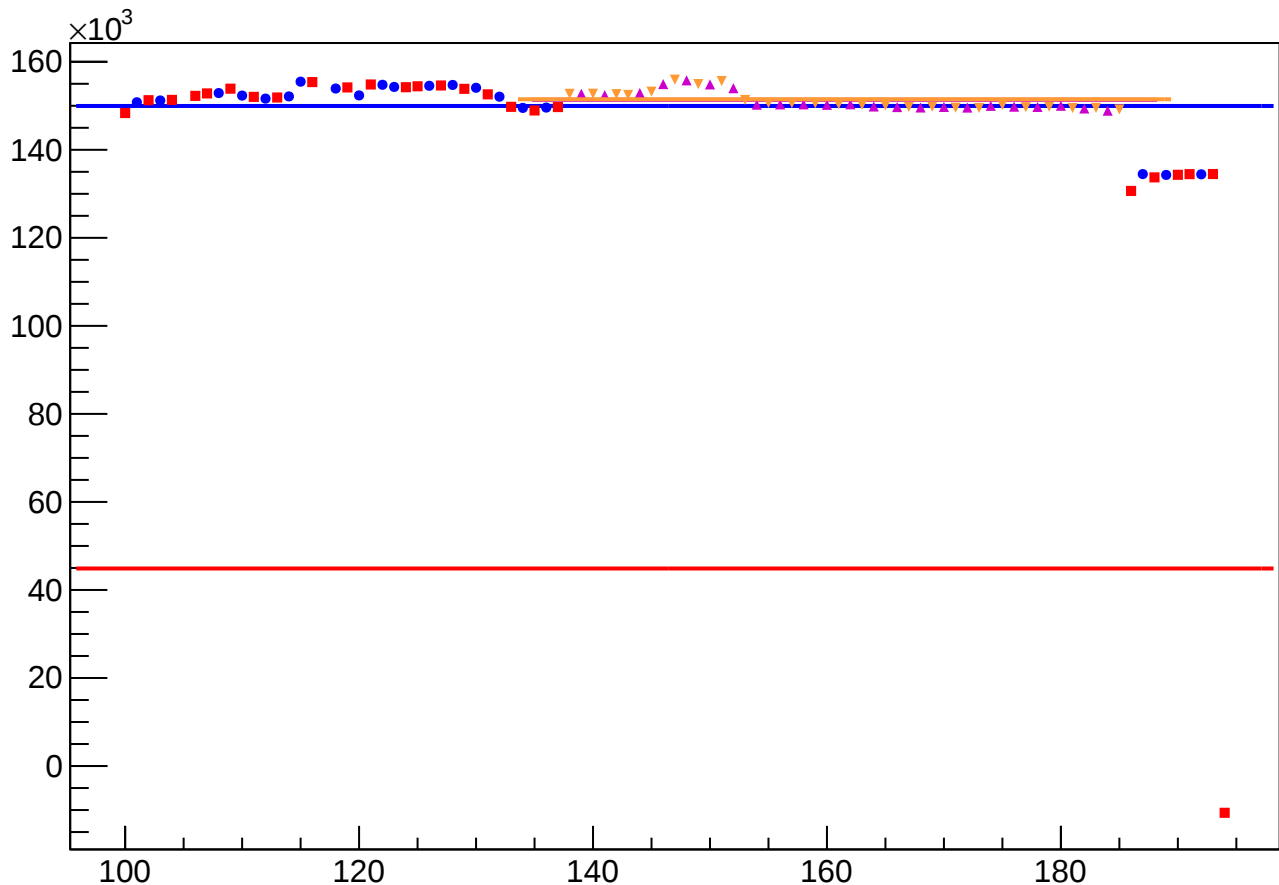
Right: 165.353+/-0.029 χ^2/NDF : 2678917.6/44

In: 191.327+/-0.028 χ^2/NDF : 2422864.5/42

Out: 188.860+/-0.026 χ^2/NDF : 3000188.6/49

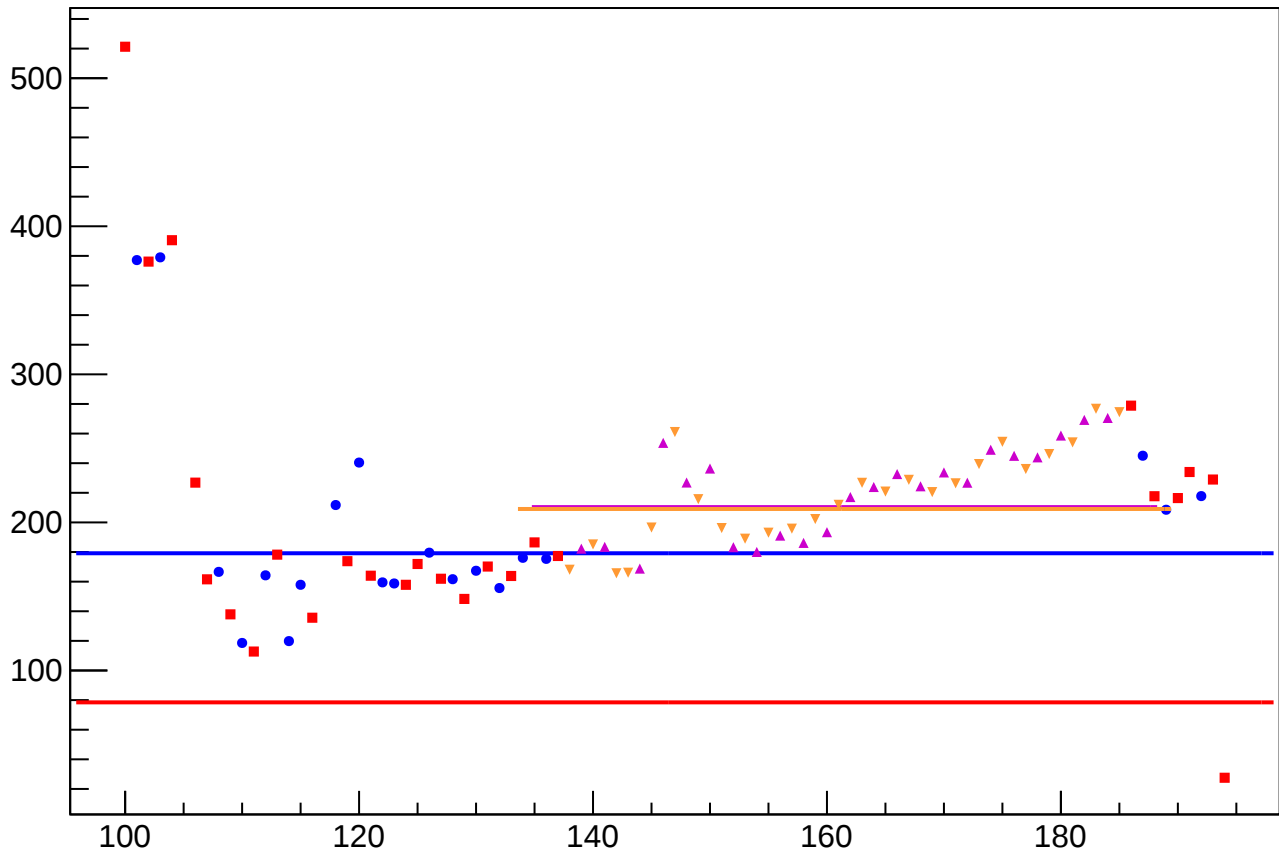
All: 190.005+/-0.019 χ^2/NDF : 5427285.7/92

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 149959.670 $\pm$ 0.067	χ^2 /NDF: 9838992169.2/19	Left: 151425.512 $\pm$ 0.036	χ^2 /NDF: 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2 /NDF: 1481910066.9/24	Right: 67905.666 $\pm$ 0.031	χ^2 /NDF: 6590931115797
Right Out: 44874.990 $\pm$ 0.035	χ^2 /NDF: 4649762935075.0/24	In: 150841.383 $\pm$ 0.041	χ^2 /NDF: 11537830301.3/4
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: 80926.597 $\pm$ 0.029	χ^2 /NDF: 7718332925936
		All: 104221.030 $\pm$ 0.024	χ^2 /NDF: 969361083

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 179.170 $\pm$ 0.047 χ^2 /NDF: 1057917.3/19

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 78.472 $\pm$ 0.025 χ^2 /NDF: 9206035.6/24

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

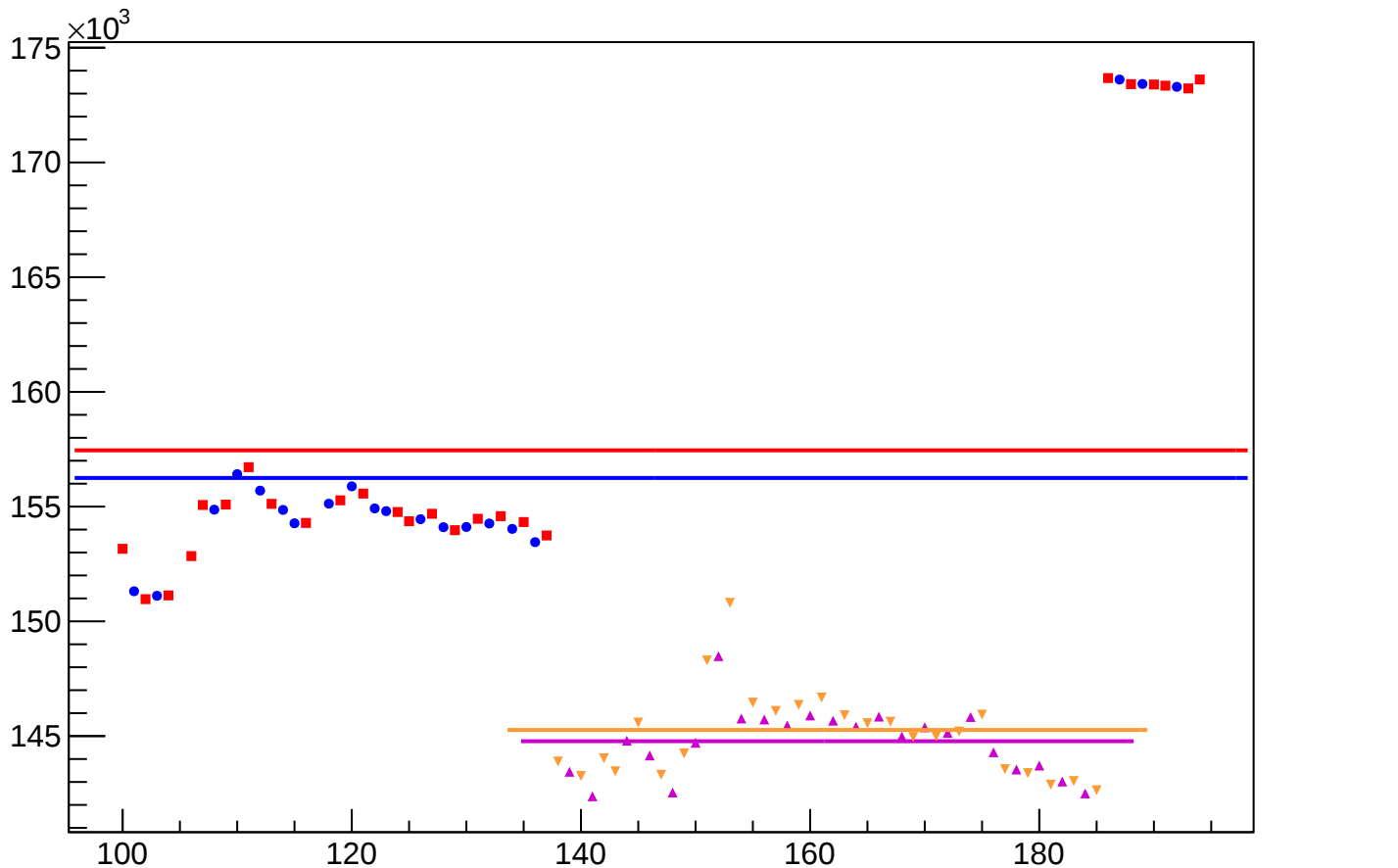
Right: 100.541 $\pm$ 0.022 χ^2 /NDF: 13810868.6/44

In: 198.755 $\pm$ 0.029 χ^2 /NDF: 2009173.9/42

Out: 122.638 $\pm$ 0.020 χ^2 /NDF: 19120641.2/49

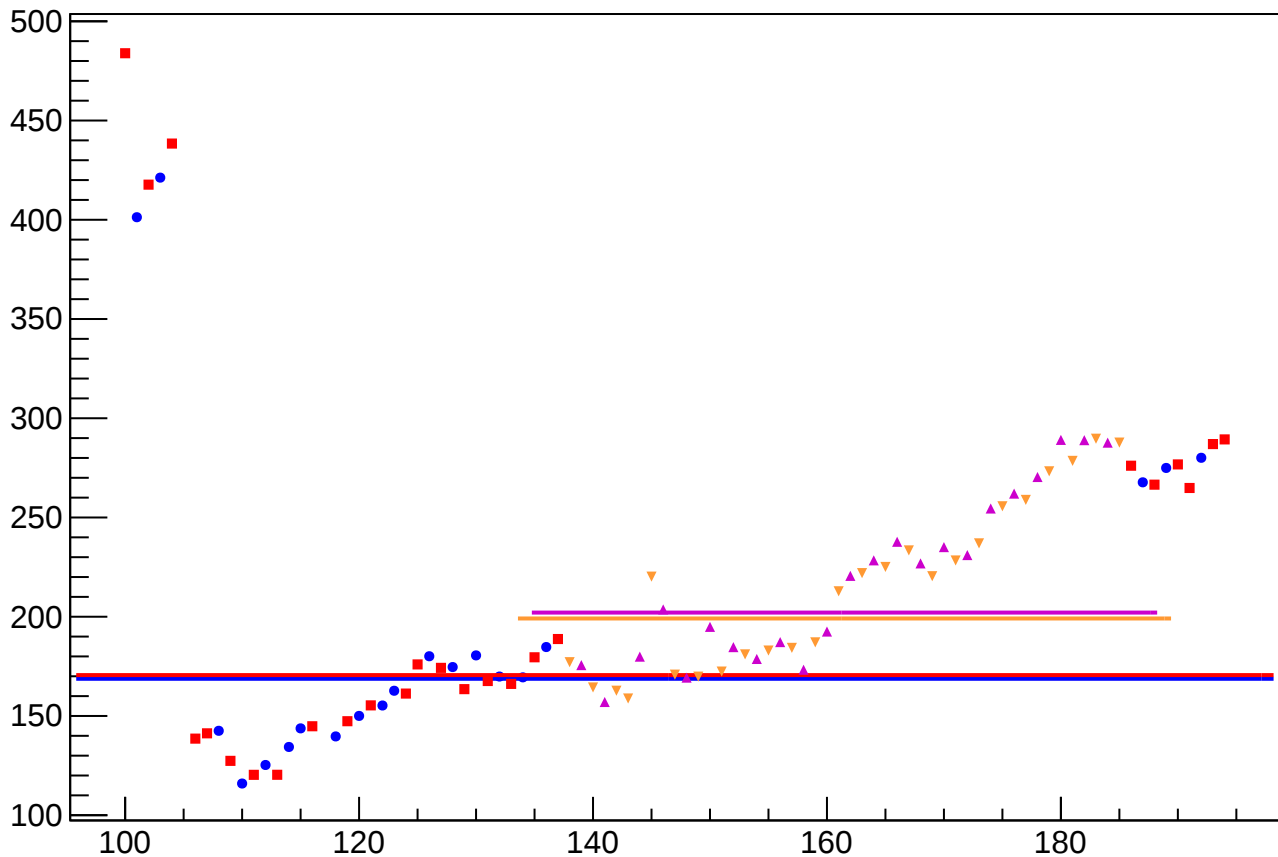
All: 147.999 $\pm$ 0.017 χ^2 /NDF: 25785006.1/92

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 156249.468 $\pm$ 0.063	χ^2 /NDF: 6614599531.0/19	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/19
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 156916.143 $\pm$ 0.042	χ^2 /NDF: 20325676967.5/19
Right Out: 157453.813 $\pm$ 0.056	χ^2 /NDF: 13507755786.1/24	In: 149175.738 $\pm$ 0.039	χ^2 /NDF: 28085034601.5/19
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 150307.103 $\pm$ 0.036	χ^2 /NDF: 42573293956.5/19
		All: 149780.801 $\pm$ 0.027	χ^2 /NDF: 711103825.5/19

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 168.734 $\pm$ 0.044 χ^2 /NDF: 1641571.1/19

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 170.592 $\pm$ 0.040 χ^2 /NDF: 2364701.8/24

Left In: 202.090 $\pm$ 0.035 χ^2 /NDF:1057833.2/22

Left: 200.538 $\pm$ 0.024 χ^2 /NDF: 2213821.5/47

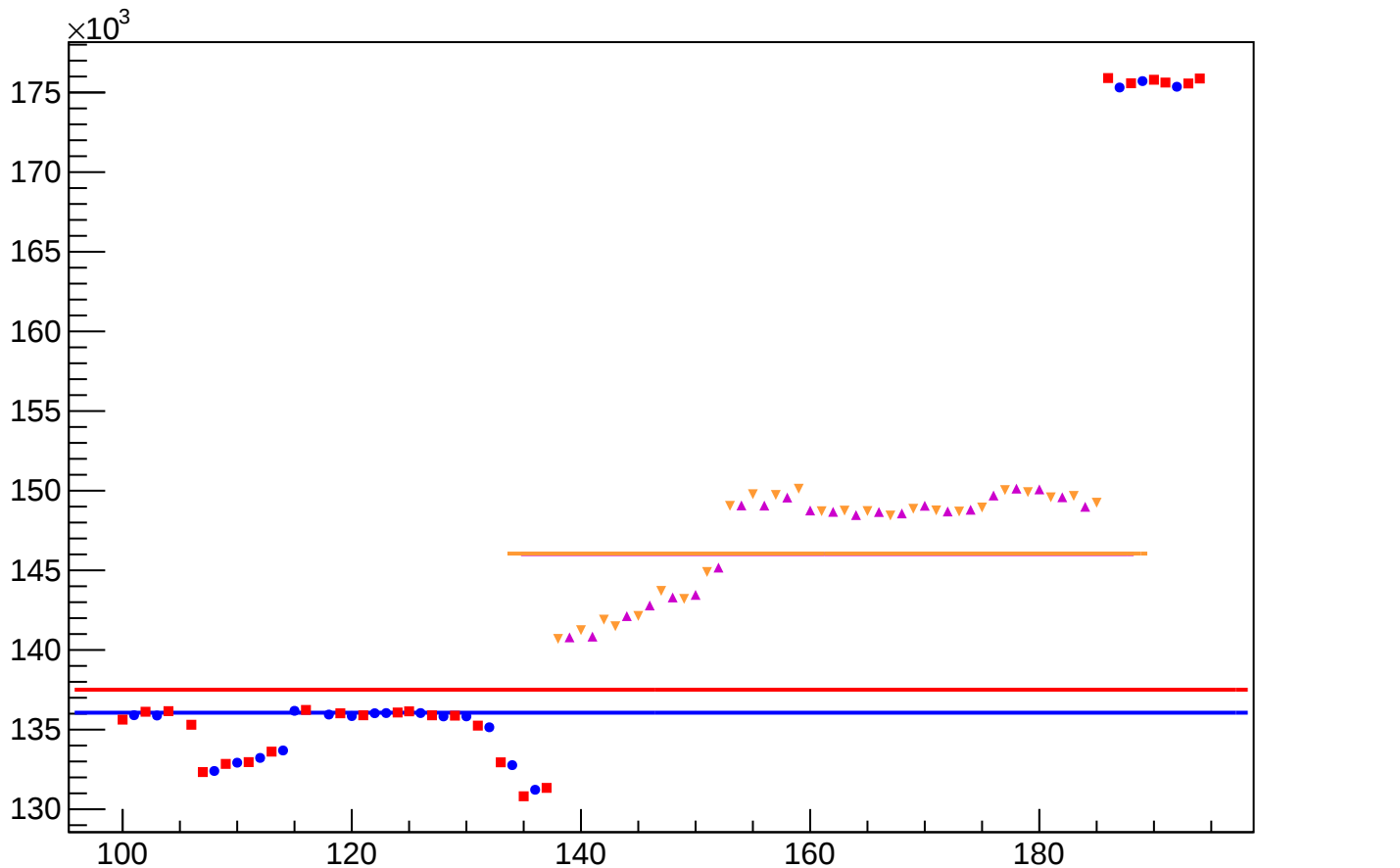
Right: 169.763 $\pm$ 0.030 χ^2 /NDF: 4007240.4/44

In: 189.299 $\pm$ 0.028 χ^2 /NDF:3046815.9/42

Out: 187.320 $\pm$ 0.026 χ^2 /NDF:3816595.4/49

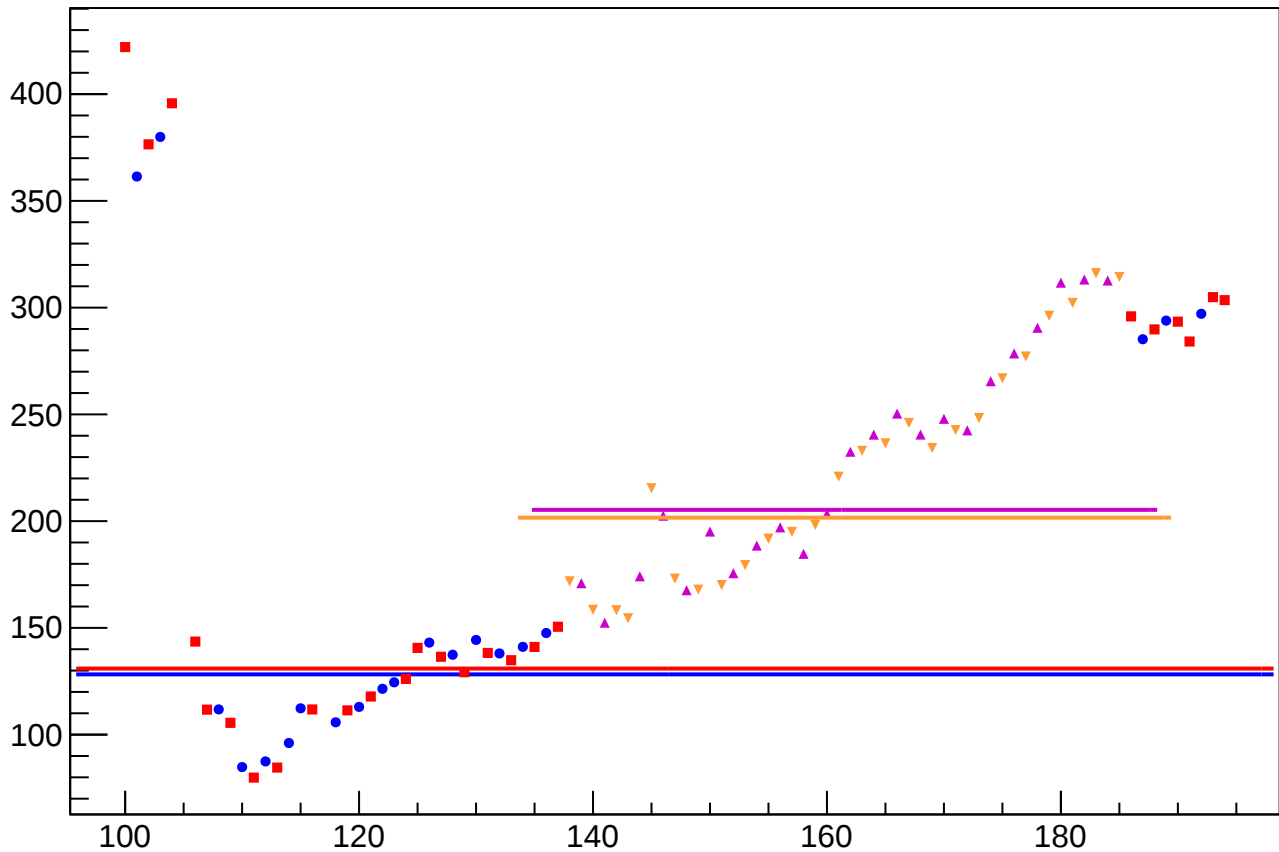
All: 188.241 $\pm$ 0.019 χ^2 /NDF: 6866178.0/92

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 136062.394 $\pm$ 0.049	χ^2/NDF : 29763326092.7/19	Left: 146036.626 $\pm$ 0.035	χ^2/NDF : 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2/NDF : 5403300123.1/24	Right: 136842.347 $\pm$ 0.033	χ^2/NDF : 93204256942.1/4
Right Out: 137505.308 $\pm$ 0.045	χ^2/NDF : 62977991667.6/24	In: 140906.993 $\pm$ 0.035	χ^2/NDF : 54198725385.3/4
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 141519.247 $\pm$ 0.033	χ^2/NDF : 84982931999.9/4
		All: 141233.022 $\pm$ 0.024	χ^2/NDF : 13934156942.1/4

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 128.218 $\pm$ 0.035 χ^2 /NDF: 2489223.2/19

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 130.942 $\pm$ 0.032 χ^2 /NDF: 3863276.8/24

Left In: 205.286 $\pm$ 0.036 χ^2 /NDF:1425292.7/22

Left: 203.372 $\pm$ 0.025 χ^2 /NDF: 3020309.5/47

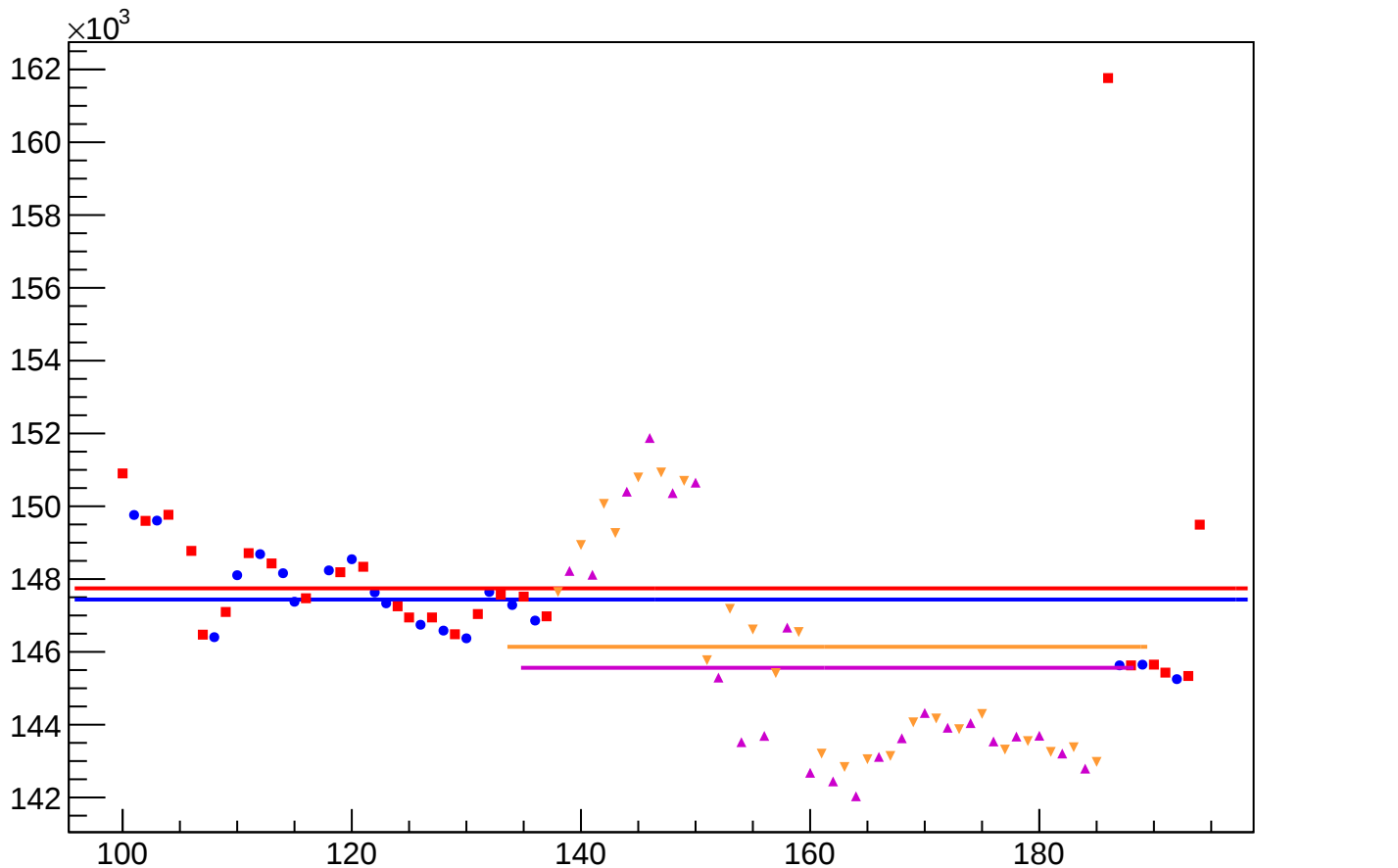
Right: 129.690 $\pm$ 0.024 χ^2 /NDF: 6355799.0/44

In: 165.713 $\pm$ 0.025 χ^2 /NDF:6291904.8/42

Out: 164.142 $\pm$ 0.023 χ^2 /NDF:7724425.3/49

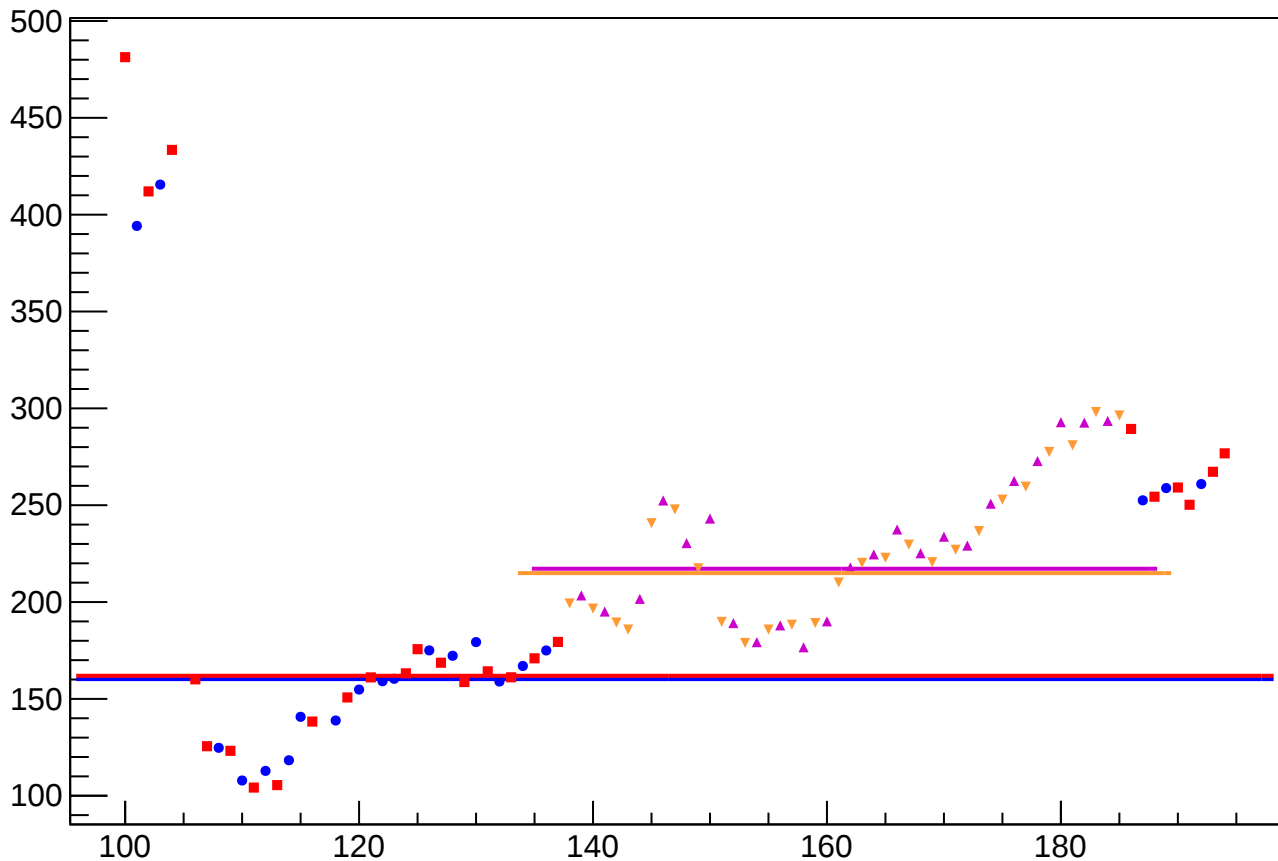
All: 164.877 $\pm$ 0.017 χ^2 /NDF: 14018436.6/92

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147437.686 $\pm$ 0.060	χ^2/NDF : 301004541.0/19	Left: 145862.850 $\pm$ 0.037	χ^2/NDF : 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2/NDF : 2699546907.6/24	Right: 147606.967 $\pm$ 0.040	χ^2/NDF : 1606109510.9/4
Right Out: 147744.547 $\pm$ 0.054	χ^2/NDF : 1290659168.3/24	In: 146386.018 $\pm$ 0.040	χ^2/NDF : 3904101587.1/42
Left In: 145562.386 $\pm$ 0.053	χ^2/NDF : 3054641996.0/22	Out: 146893.735 $\pm$ 0.037	χ^2/NDF : 4457523845.1/4
		All: 146657.571 $\pm$ 0.027	χ^2/NDF : 844892380.0/100

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 160.216 $\pm$ 0.042 χ^2 /NDF: 1748491.1/19

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 161.943 $\pm$ 0.038 χ^2 /NDF: 2596155.1/24

Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

Left: 216.027 $\pm$ 0.026 χ^2 /NDF: 1495200.1/47

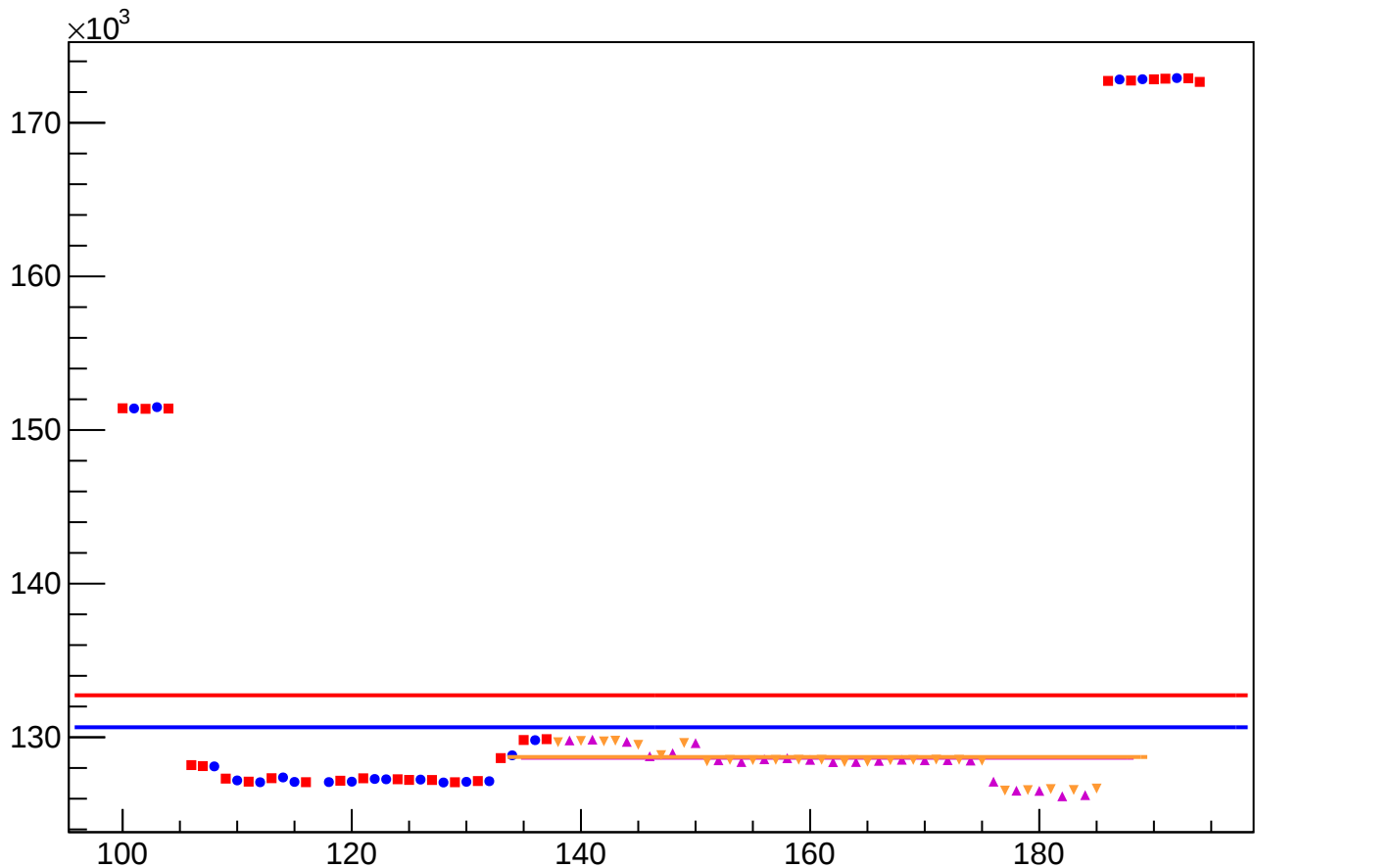
Right: 161.169 $\pm$ 0.028 χ^2 /NDF: 4345560.7/44

In: 192.175 $\pm$ 0.028 χ^2 /NDF: 3526231.8/42

Out: 190.035 $\pm$ 0.026 χ^2 /NDF: 4343648.8/49

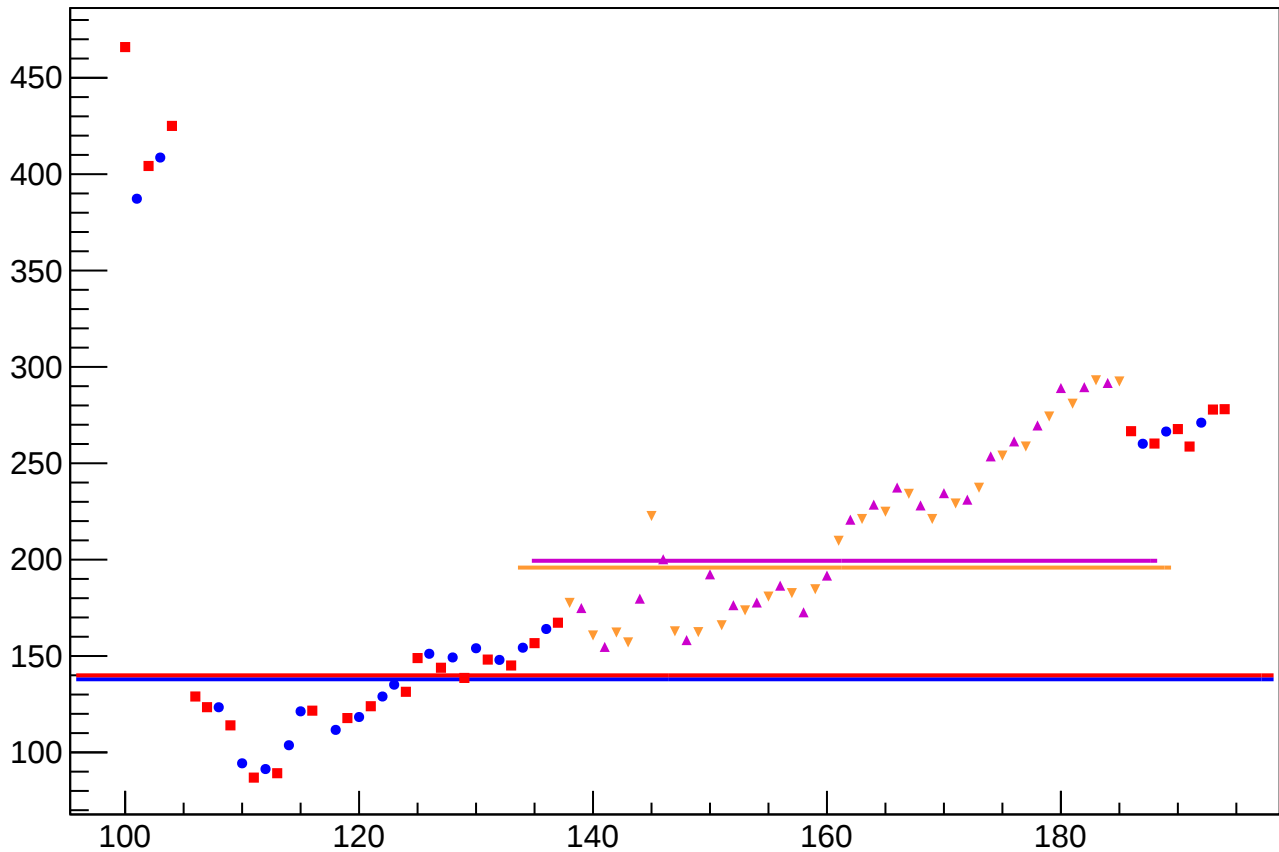
All: 191.030 $\pm$ 0.019 χ^2 /NDF: 7872980.2/92

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 130649.619+/-0.053	χ^2/NDF : 44615945813.5/19	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 131793.673+/-0.035	χ^2/NDF : 134025793314
Right Out: 132731.441+/-0.048	χ^2/NDF : 88548859425.5/24	In: 129588.092+/-0.036	χ^2/NDF : 45709812641.9/4
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 130683.798+/-0.033	χ^2/NDF : 92524532995.8
		All: 130175.610+/-0.024	χ^2/NDF : 138735257

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.929+/-0.037 χ^2/NDF : 2254410.2/19

Left Out: 195.883+/-0.033 χ^2/NDF :1313361.5/24

Right Out: 139.974+/-0.034 χ^2/NDF : 3298984.1/24

Left In: 199.413+/-0.035 χ^2/NDF :1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

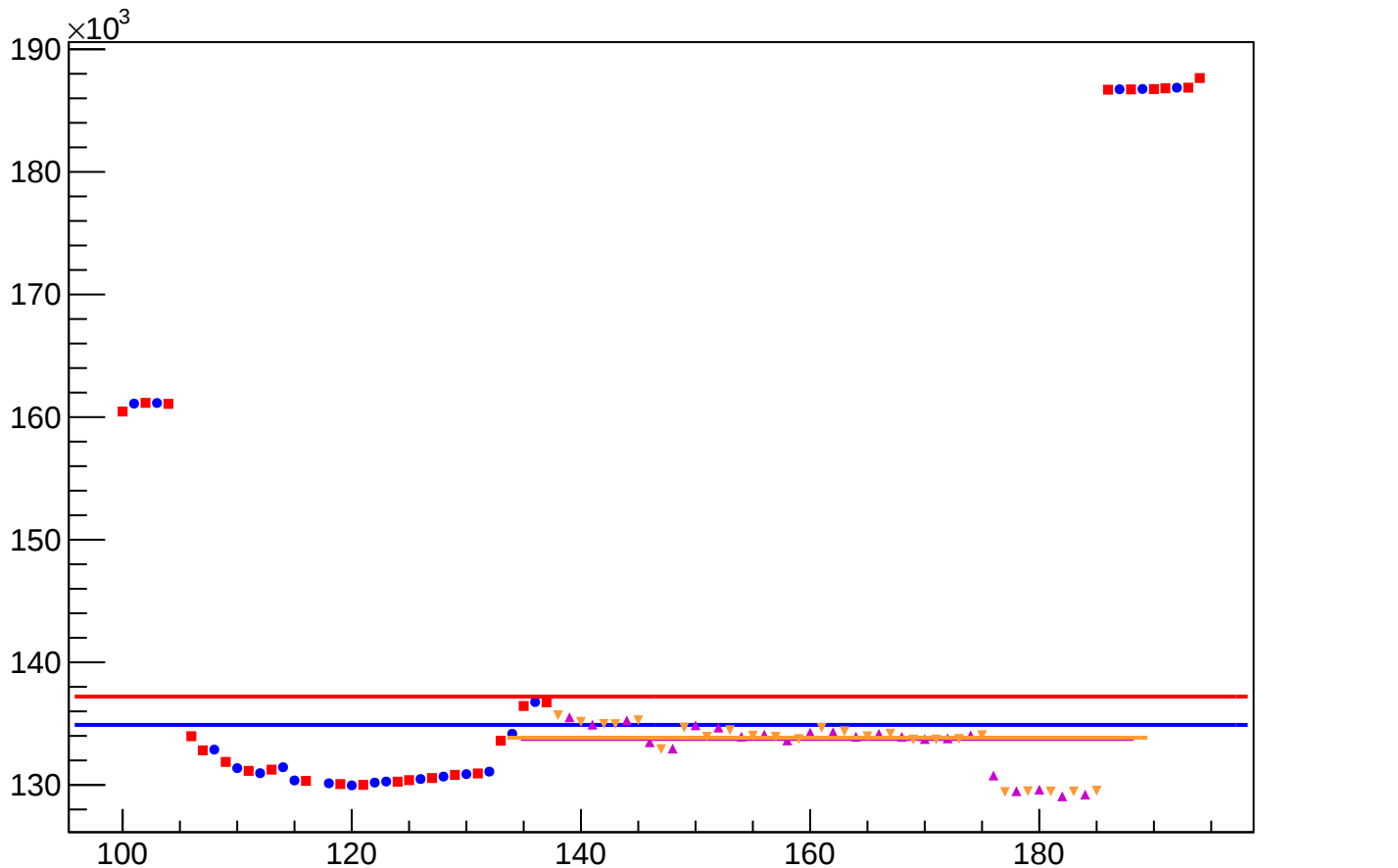
Right: 139.053+/-0.025 χ^2/NDF : 5555055.5/44

In: 170.849+/-0.025 χ^2/NDF :4883508.5/42

Out: 168.474+/-0.024 χ^2/NDF :6017777.1/49

All: 169.575+/-0.017 χ^2/NDF : 10905994.4/92

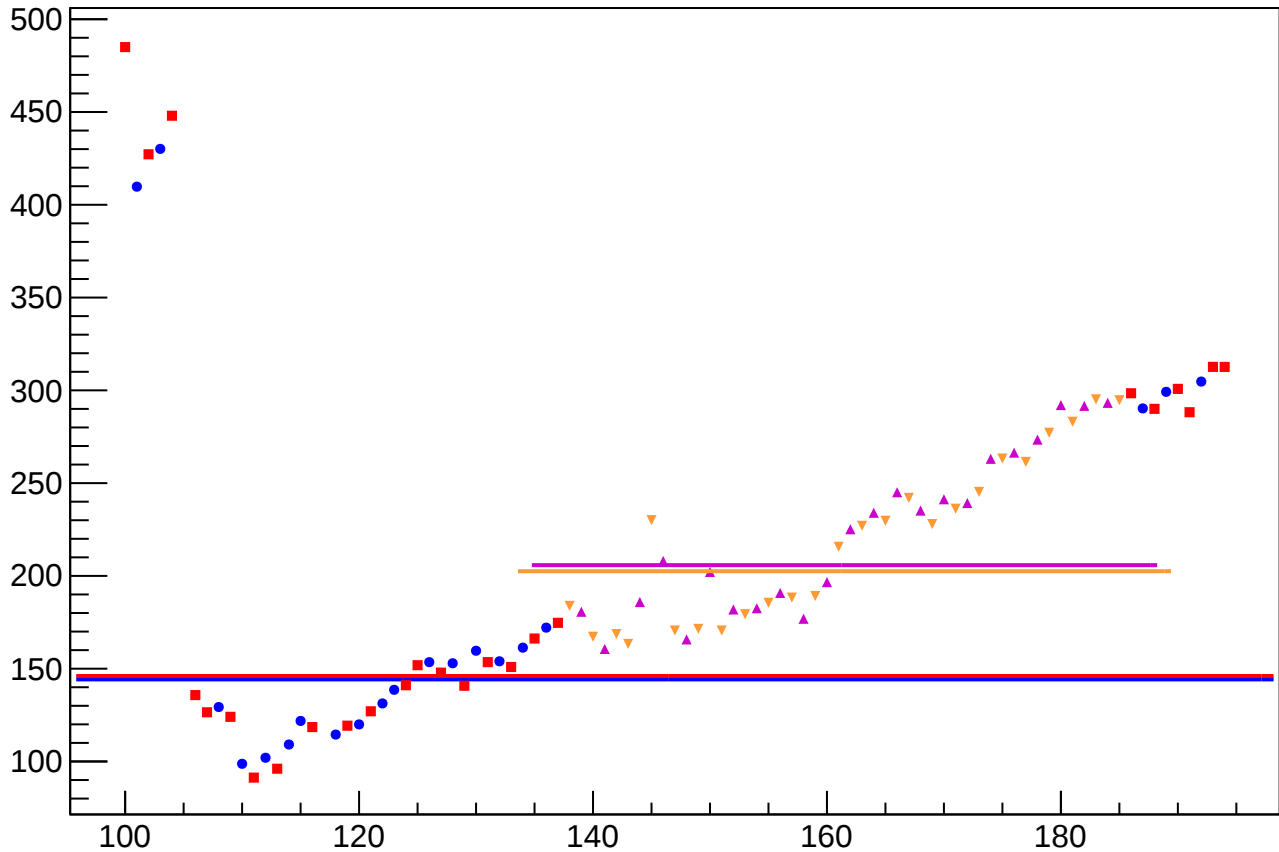
yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 134897.178 $\pm$ 0.055 χ^2 /NDF: 54670394578.7/19
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 137207.371 $\pm$ 0.050 χ^2 /NDF: 108775858390.9/24
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22

Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Right: 136164.810 $\pm$ 0.037 χ^2 /NDF: 164409453844
 In: 134273.264 $\pm$ 0.037 χ^2 /NDF: 55859952901.0/4
 Out: 135468.016 $\pm$ 0.035 χ^2 /NDF: 112190923457.
 All: 134912.693 $\pm$ 0.025 χ^2 /NDF: 16860154.

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 144.229 $\pm$ 0.039 χ^2 /NDF: 2322189.1/19

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 146.062 $\pm$ 0.035 χ^2 /NDF: 3515085.9/24

Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2 /NDF: 2310735.8/47

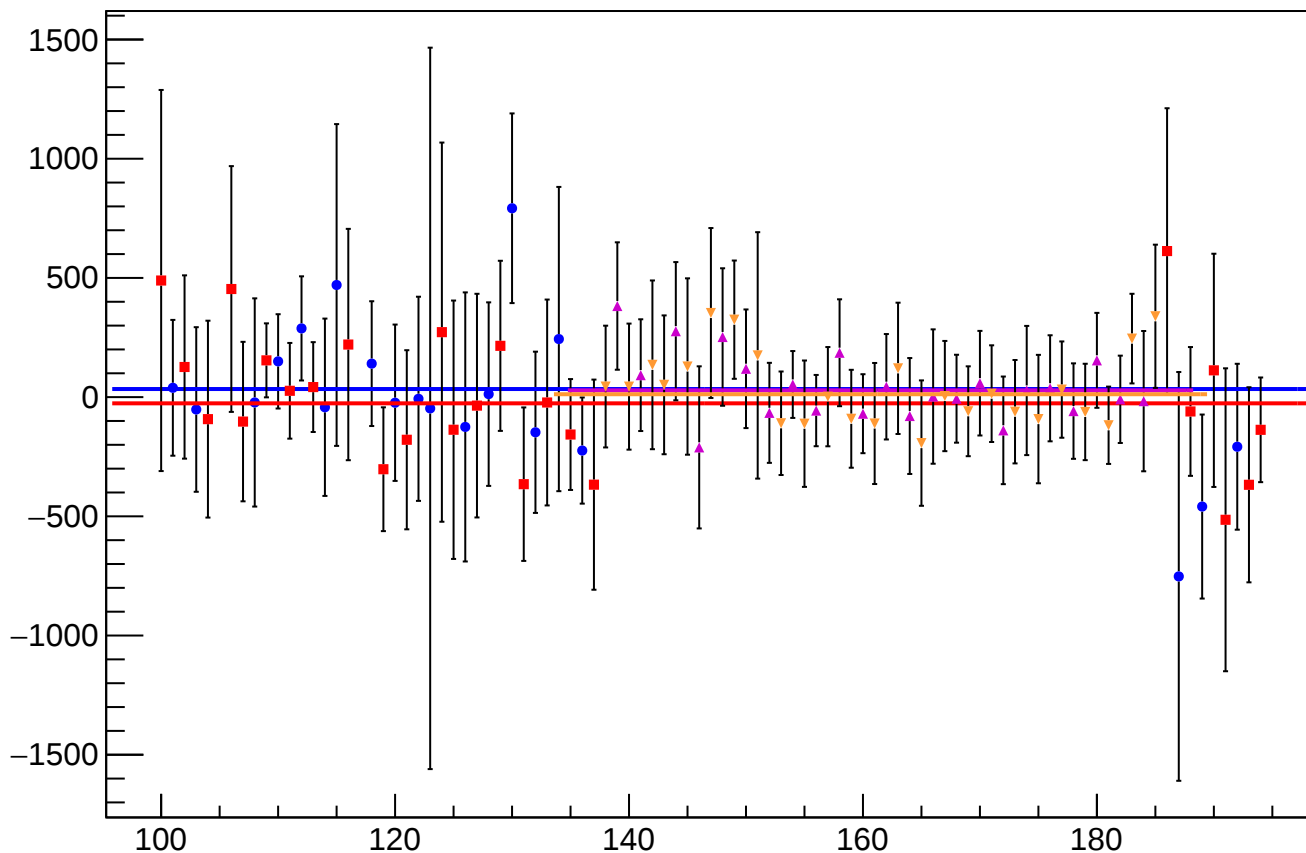
Right: 145.235 $\pm$ 0.026 χ^2 /NDF: 5838487.0/44

In: 177.709 $\pm$ 0.026 χ^2 /NDF:4772705.0/42

Out: 175.320 $\pm$ 0.025 χ^2 /NDF:6048463.6/49

All: 176.431 $\pm$ 0.018 χ^2 /NDF: 10825572.6/92

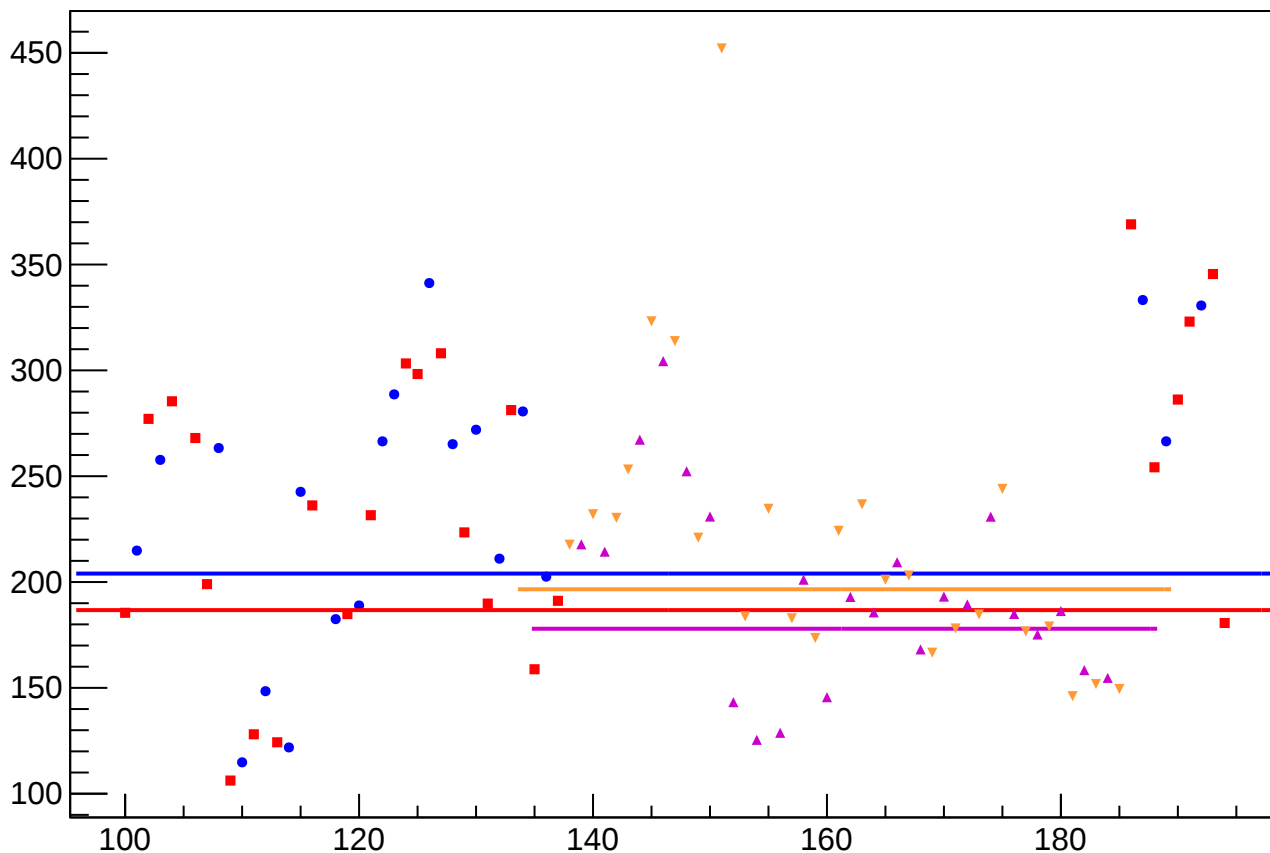
asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 33.989 $\pm$ 75.458 χ^2 /NDF: 10.9/19
 Left Out: 12.180 $\pm$ 47.531 χ^2 /NDF:8.6/24
 Right Out: -26.044 $\pm$ 62.809 χ^2 /NDF: 10.1/24
 Left In: 28.452 $\pm$ 44.688 χ^2 /NDF:6.7/22

Left: 20.817 $\pm$ 32.558 χ^2 /NDF: 15.3/47
 Right: -1.474 $\pm$ 48.274 χ^2 /NDF: 21.3/44
 In: 29.890 $\pm$ 38.451 χ^2 /NDF:17.5/42
 Out: -1.739 $\pm$ 37.902 χ^2 /NDF:18.9/49
 All: 13.848 $\pm$ 26.993 χ^2 /NDF: 36.7/92

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 204.000 $\pm$ 0.053 χ^2 /NDF: 1414718.0/19

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 186.736 $\pm$ 0.044 χ^2 /NDF: 2450617.7/24

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

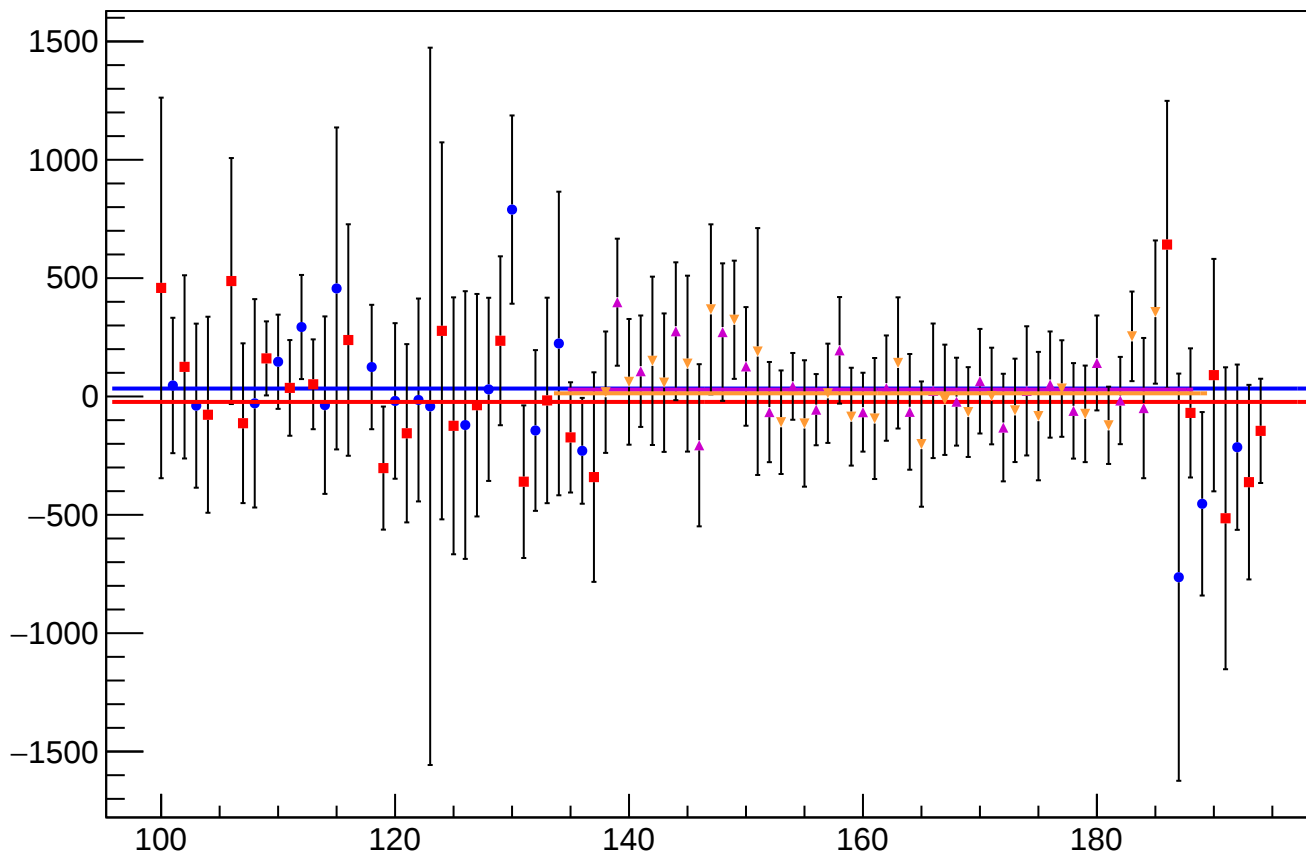
Right: 193.802 $\pm$ 0.034 χ^2 /NDF: 3927182.7/44

In: 184.702 $\pm$ 0.027 χ^2 /NDF:3197202.7/42

Out: 192.993 $\pm$ 0.027 χ^2 /NDF:4260553.0/49

All: 188.907 $\pm$ 0.019 χ^2 /NDF: 7504921.5/92

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 33.558 $\pm$ 75.819 χ^2 /NDF: 10.7/19

Left Out: 13.395 $\pm$ 47.862 χ^2 /NDF:9.0/24

Right Out: -22.994 $\pm$ 63.148 χ^2 /NDF: 10.3/24

Left In: 28.806 $\pm$ 44.980 χ^2 /NDF:6.8/22

Left: 21.578 $\pm$ 32.777 χ^2 /NDF: 15.9/47

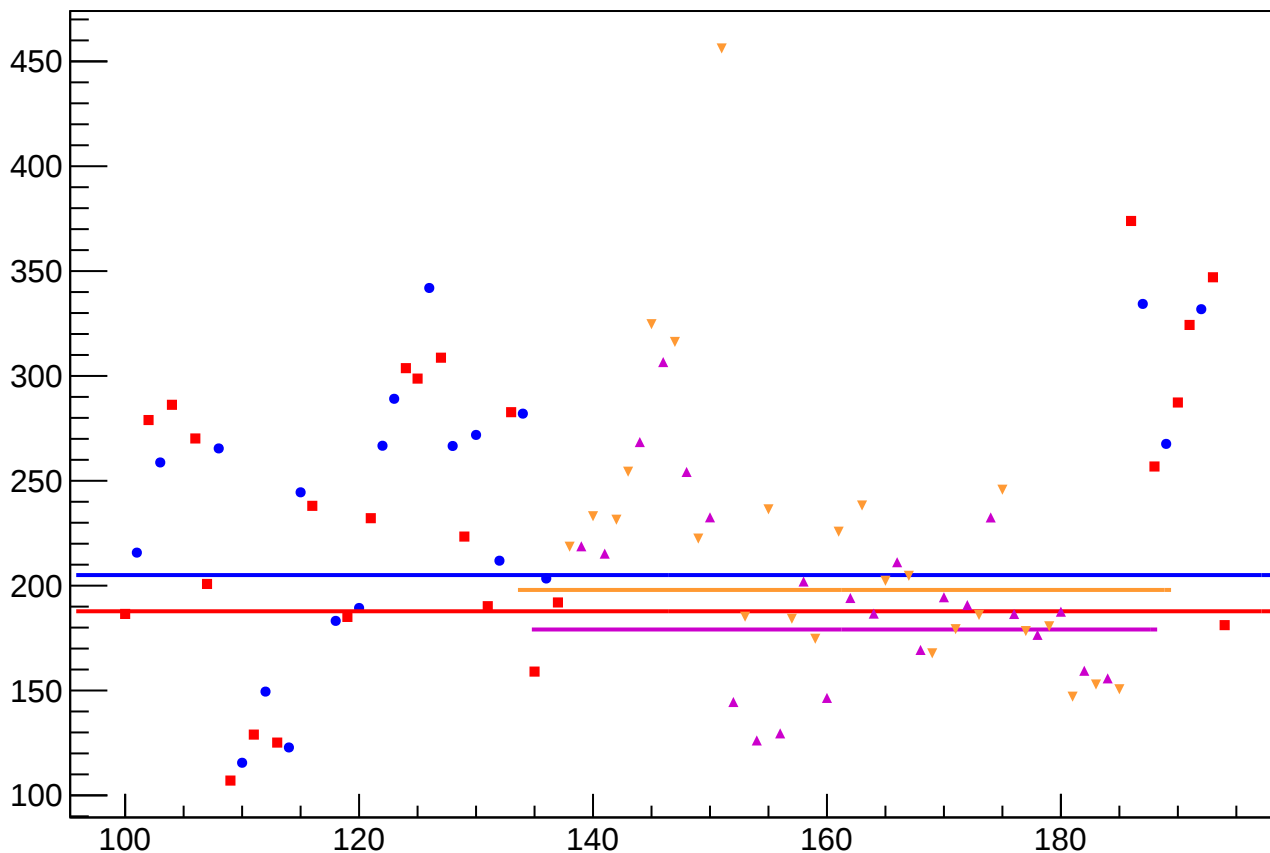
Right: 0.168 $\pm$ 48.523 χ^2 /NDF: 21.4/44

In: 30.043 $\pm$ 38.685 χ^2 /NDF:17.6/42

Out: 0.118 $\pm$ 38.144 χ^2 /NDF:19.5/49

All: 14.870 $\pm$ 27.161 χ^2 /NDF: 37.4/92

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 205.045 ± 0.054 χ^2/NDF : 1404345.0/19

Left Out: 197.953 ± 0.034 χ^2/NDF : 1774524.3/24

Right Out: 187.782 ± 0.045 χ^2/NDF : 2442790.8/24

Left In: 179.090 ± 0.032 χ^2/NDF : 1605113.3/22

Left: 187.936 ± 0.023 χ^2/NDF : 3544595.8/47

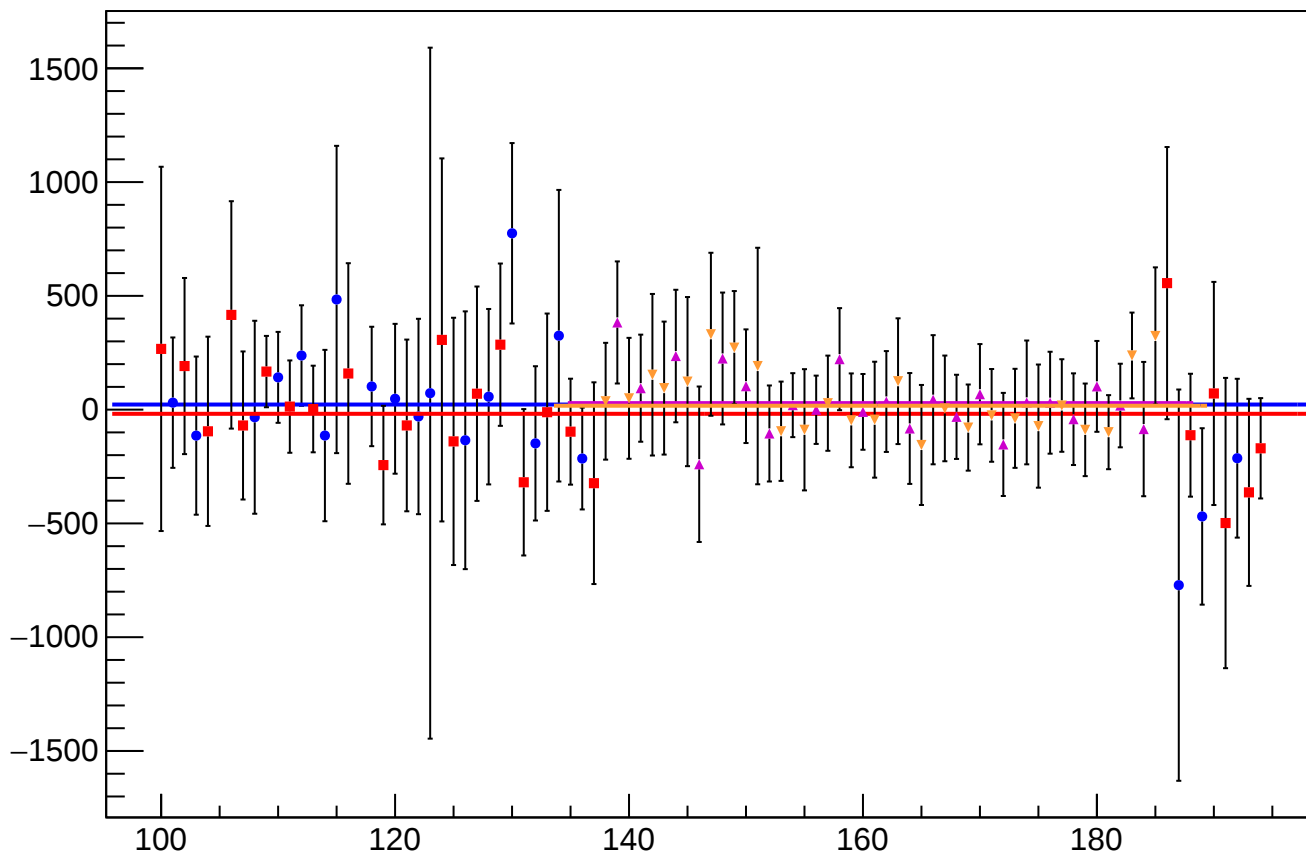
Right: 194.852 ± 0.034 χ^2/NDF : 3908352.1/44

In: 185.846 ± 0.027 χ^2/NDF : 3182818.0/42

Out: 194.242 ± 0.027 χ^2/NDF : 4250269.2/49

All: 190.103 ± 0.019 χ^2/NDF : 7480846.7/92

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 22.459 $\pm$ 75.815 χ^2 /NDF: 10.4/19

Left Out: 17.142 $\pm$ 47.738 χ^2 /NDF: 7.1/24

Right Out: -18.323 $\pm$ 63.051 χ^2 /NDF: 8.8/24

Left In: 28.655 $\pm$ 44.859 χ^2 /NDF: 6.1/22

Left: 23.256 $\pm$ 32.690 χ^2 /NDF: 13.2/47

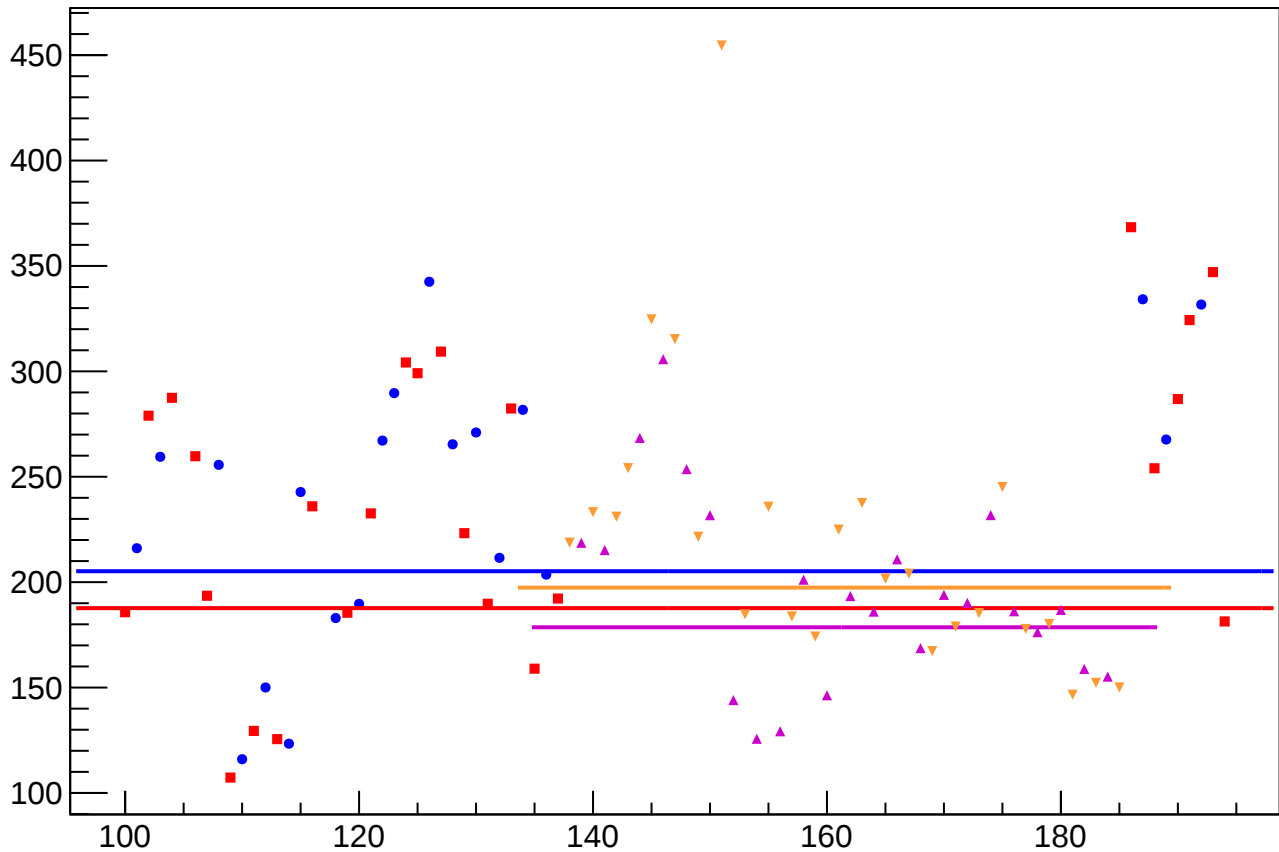
Right: -1.649 $\pm$ 48.477 χ^2 /NDF: 19.4/44

In: 27.049 $\pm$ 38.607 χ^2 /NDF: 16.5/42

Out: 4.219 $\pm$ 38.059 χ^2 /NDF: 16.1/49

All: 15.471 $\pm$ 27.104 χ^2 /NDF: 32.8/92

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 205.192 ± 0.054 $\chi^2/NDF: 1380830.4/19$

Left Out: 197.422 ± 0.034 $\chi^2/NDF: 1780261.9/24$

Right Out: 187.673 ± 0.045 $\chi^2/NDF: 2406324.9/24$

Left In: 178.601 ± 0.032 $\chi^2/NDF: 1608998.1/22$

Left: 187.427 ± 0.023 $\chi^2/NDF: 3554344.1/47$

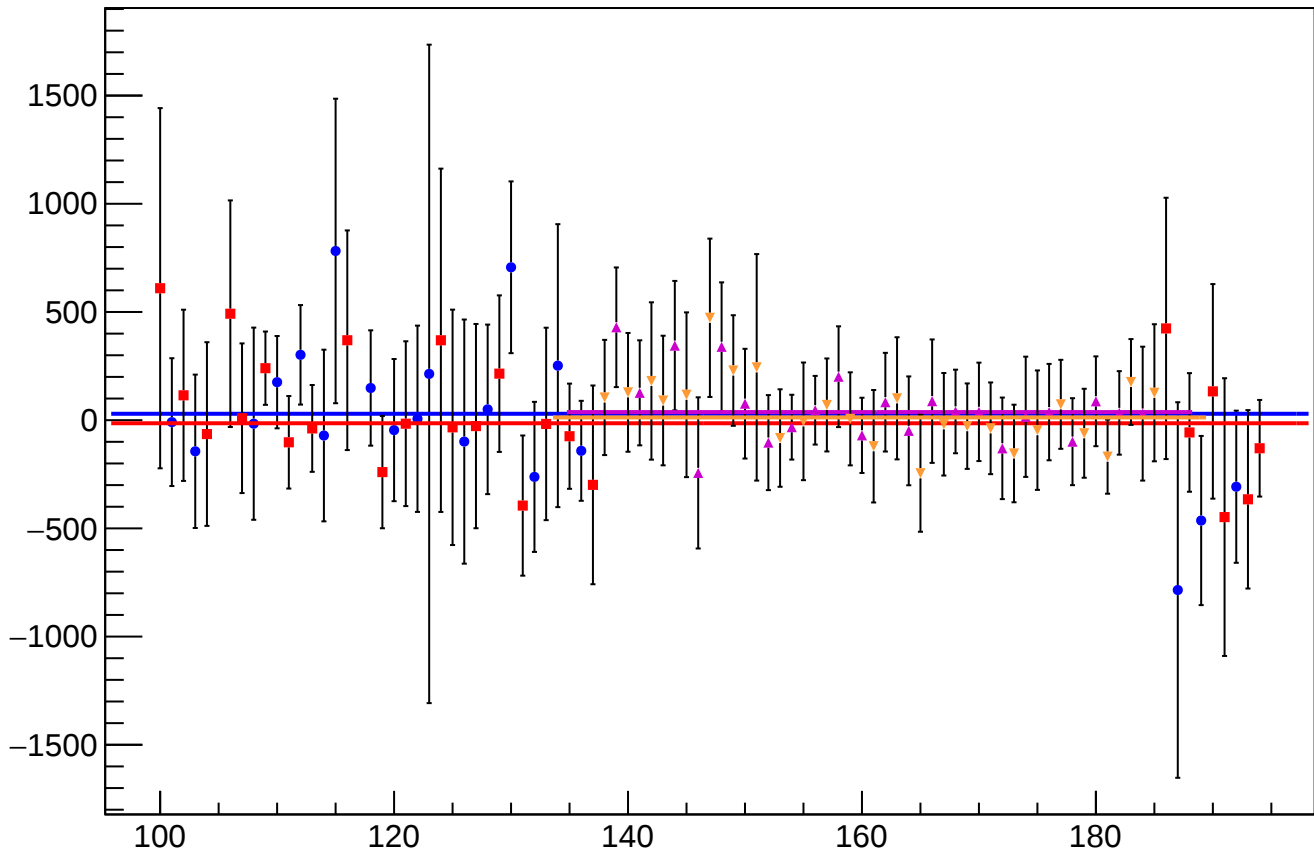
Right: 194.836 ± 0.034 $\chi^2/NDF: 3850282.8/44$

In: 185.497 ± 0.027 $\chi^2/NDF: 3172052.5/42$

Out: 193.870 ± 0.027 $\chi^2/NDF: 4216977.2/49$

All: 189.743 ± 0.019 $\chi^2/NDF: 7436737.1/92$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 29.594 $\pm$ 78.008 χ^2 /NDF: 11.3/19

Left Out: 12.632 $\pm$ 49.242 χ^2 /NDF: 7.5/24

Right Out: -14.224 $\pm$ 65.303 χ^2 /NDF: 9.9/24

Left In: 37.460 $\pm$ 46.479 χ^2 /NDF: 7.6/22

Left: 25.762 $\pm$ 33.800 χ^2 /NDF: 15.3/47

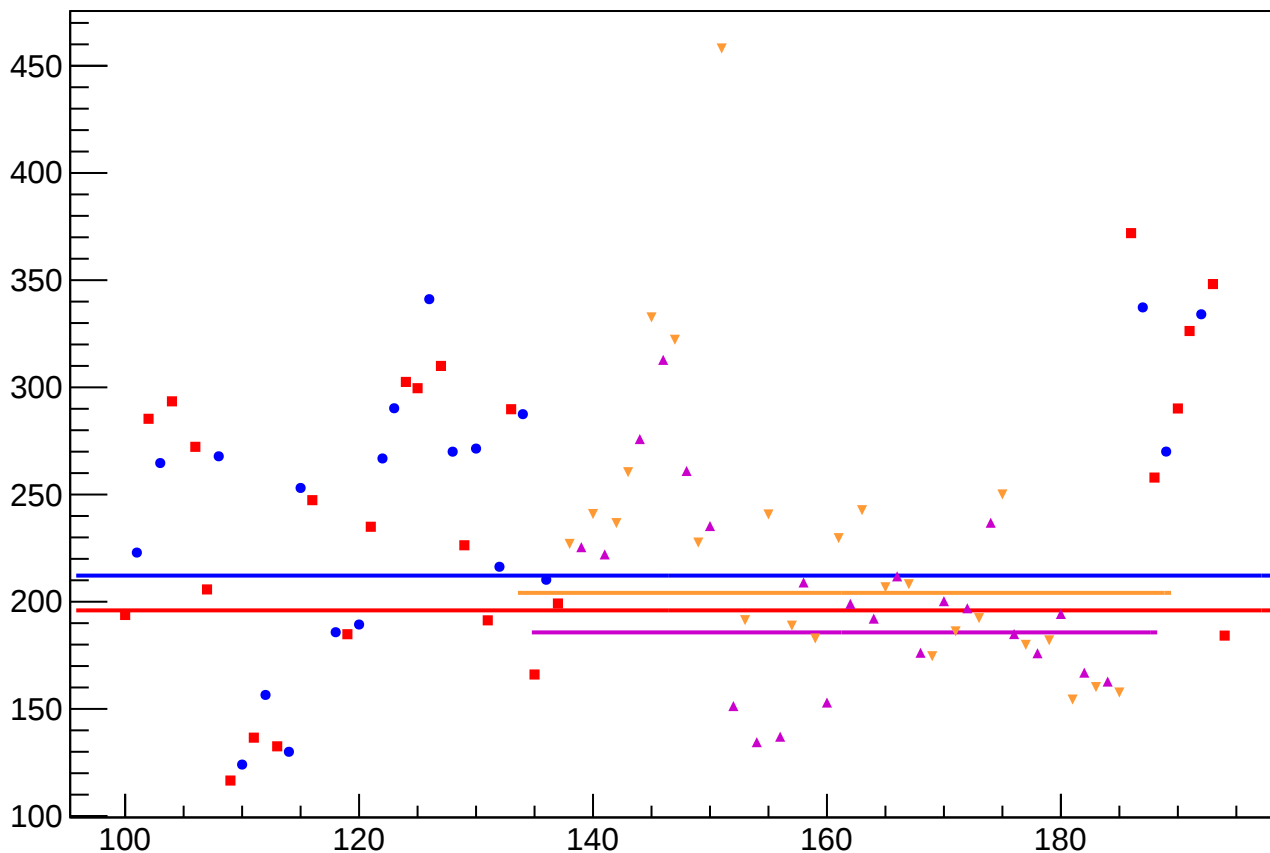
Right: 3.830 $\pm$ 50.074 χ^2 /NDF: 21.5/44

In: 35.399 $\pm$ 39.929 χ^2 /NDF: 19.0/42

Out: 2.897 $\pm$ 39.317 χ^2 /NDF: 17.6/49

All: 18.897 $\pm$ 28.015 χ^2 /NDF: 36.9/92

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 212.193 ± 0.055 $\chi^2/NDF: 1241872.4/19$

Left Out: 204.132 ± 0.035 $\chi^2/NDF: 1672287.6/24$

Right Out: 195.964 ± 0.046 $\chi^2/NDF: 2154788.8/24$

Left In: 185.694 ± 0.033 $\chi^2/NDF: 1447767.0/22$

Left: 194.381 ± 0.024 $\chi^2/NDF: 3268347.9/47$

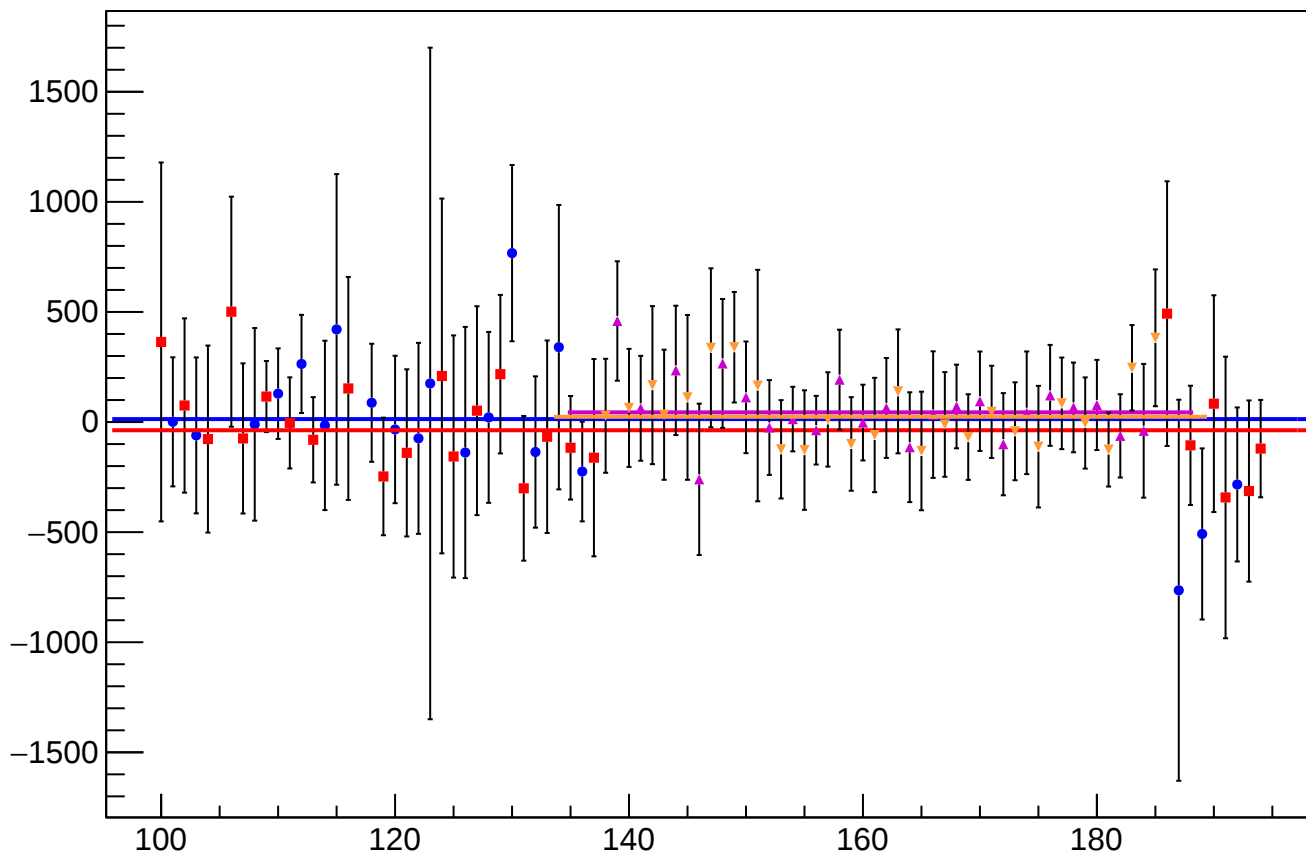
Right: 202.651 ± 0.035 $\chi^2/NDF: 3447559.9/44$

In: 192.636 ± 0.028 $\chi^2/NDF: 2859964.7/42$

Out: 201.171 ± 0.028 $\chi^2/NDF: 3847025.1/49$

All: 196.969 ± 0.020 $\chi^2/NDF: 6753383.4/92$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 13.401 $\pm$ 77.058 χ^2 /NDF: 10.6/19

Left Out: 23.843 $\pm$ 48.783 χ^2 /NDF:8.5/24

Right Out: -37.317 $\pm$ 64.163 χ^2 /NDF: 6.5/24

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 34.506 $\pm$ 33.460 χ^2 /NDF: 15.1/47

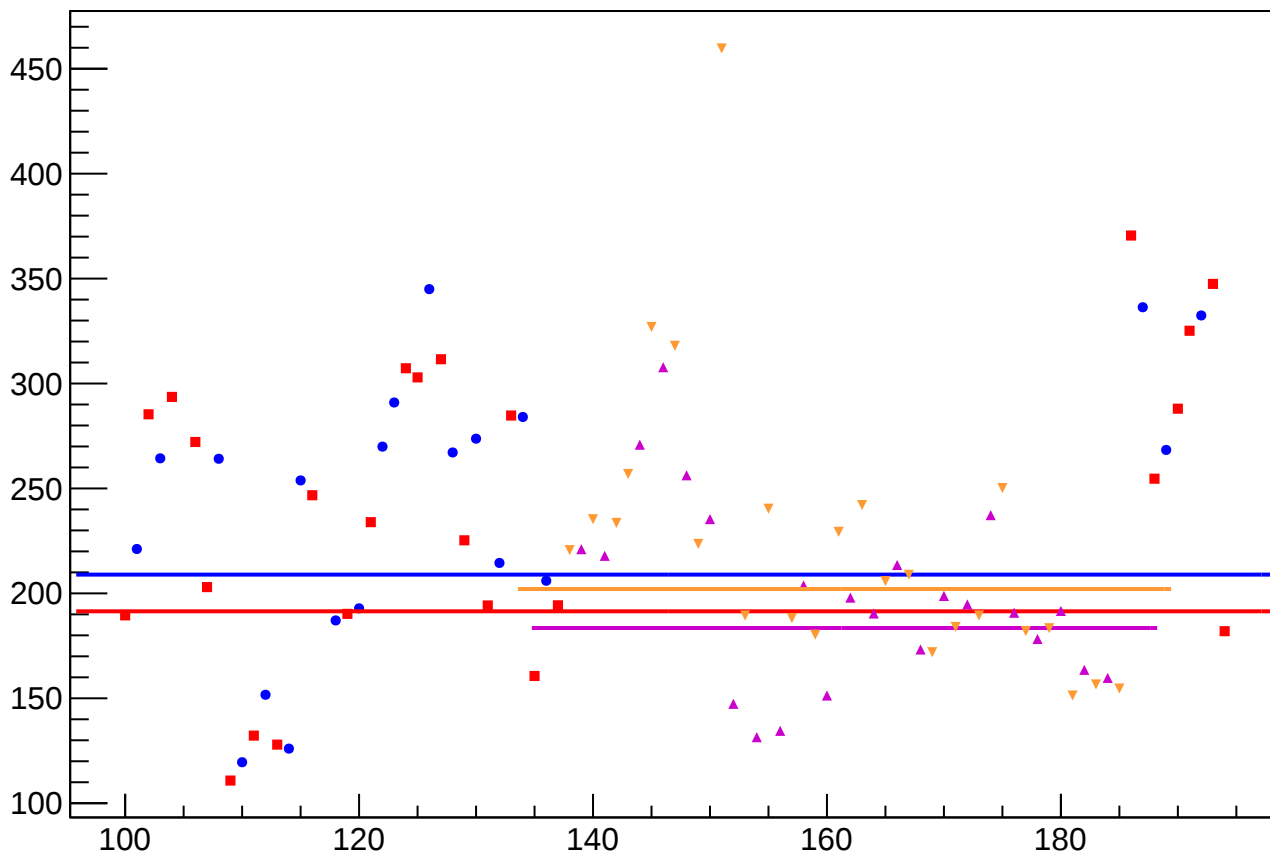
Right: -16.550 $\pm$ 49.308 χ^2 /NDF: 17.3/44

In: 35.950 $\pm$ 39.485 χ^2 /NDF:17.3/42

Out: 1.440 $\pm$ 38.834 χ^2 /NDF:15.5/49

All: 18.408 $\pm$ 27.687 χ^2 /NDF: 33.1/92

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 208.943 $\pm$ 0.054 χ^2/NDF : 1336917.3/19

Left Out: 202.081 $\pm$ 0.034 χ^2/NDF :1692787.9/24

Right Out: 191.456 $\pm$ 0.045 χ^2/NDF : 2343055.7/24

Left In: 183.498 $\pm$ 0.033 χ^2/NDF :1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2/NDF : 3329846.6/47

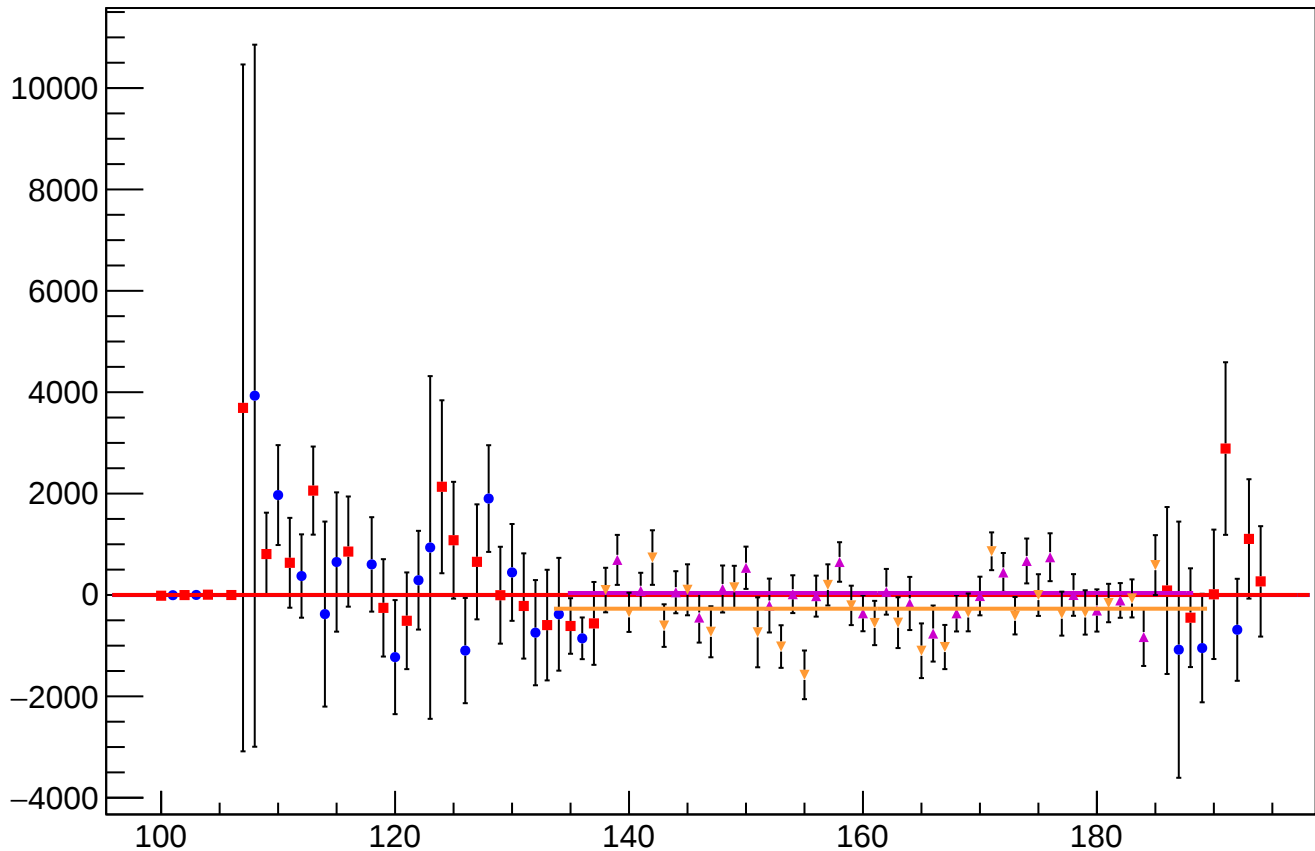
Right: 198.616 $\pm$ 0.035 χ^2/NDF : 3740803.4/44

In: 190.179 $\pm$ 0.028 χ^2/NDF :2981116.9/42

Out: 198.189 $\pm$ 0.027 χ^2/NDF :4070596.6/49

All: 194.251 $\pm$ 0.020 χ^2/NDF : 7093544.5/92

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.538 ± 2.251 χ^2/NDF : 19.0/19

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.733 ± 2.111 χ^2/NDF : 23.2/24

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

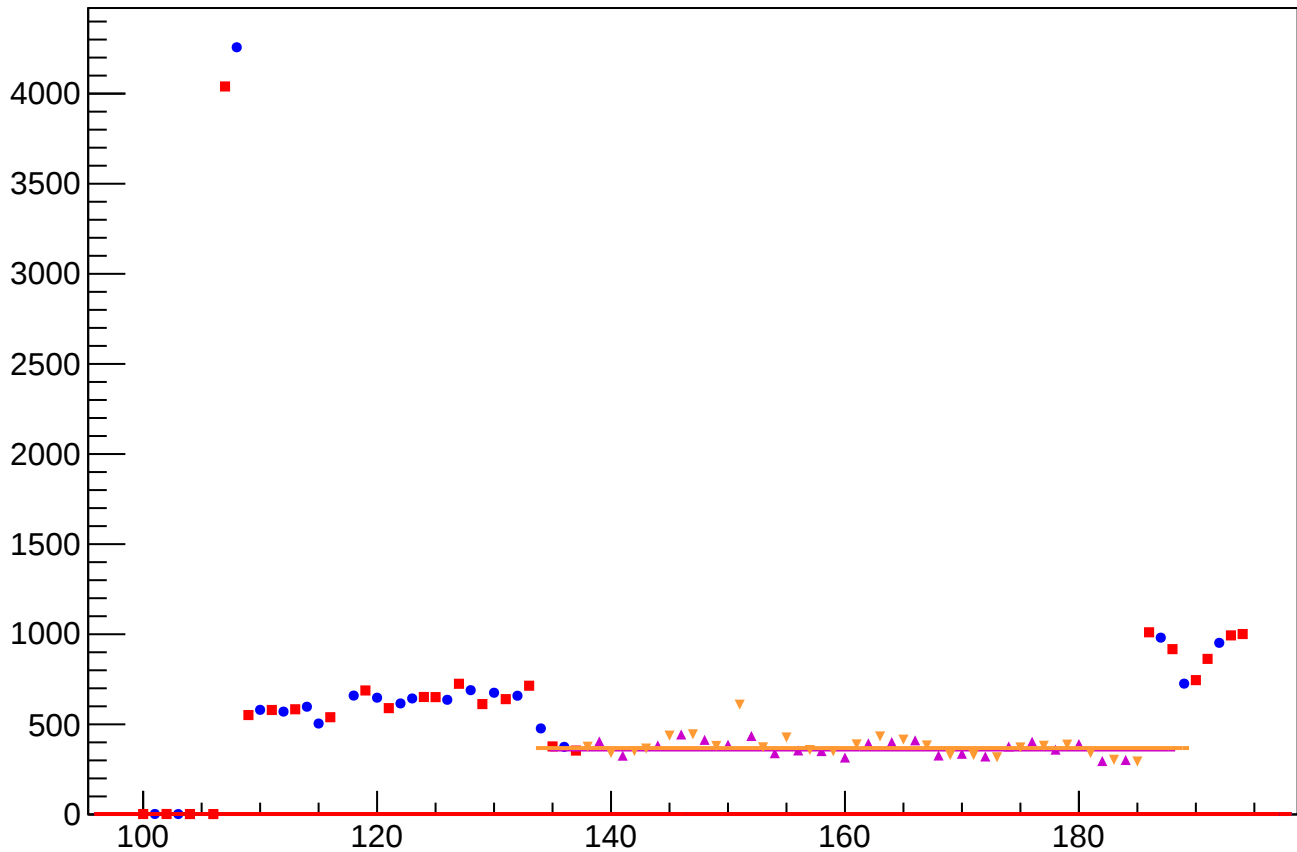
Right: -0.330 ± 1.540 χ^2/NDF : 42.7/44

In: -1.512 ± 2.251 χ^2/NDF : 39.5/42

Out: 0.573 ± 2.110 χ^2/NDF : 71.0/49

All: -0.402 ± 1.540 χ^2/NDF : 111.0/92

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.465 $\pm$ 0.002 χ^2 /NDF: 13804706.2/19

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF: 622466.1/24

Right Out: 2.453 $\pm$ 0.001 χ^2 /NDF: 17902715.3/24

Left In: 360.408 $\pm$ 0.062 χ^2 /NDF: 417739.4/22

Left: 364.439 $\pm$ 0.044 χ^2 /NDF: 1048566.0/47

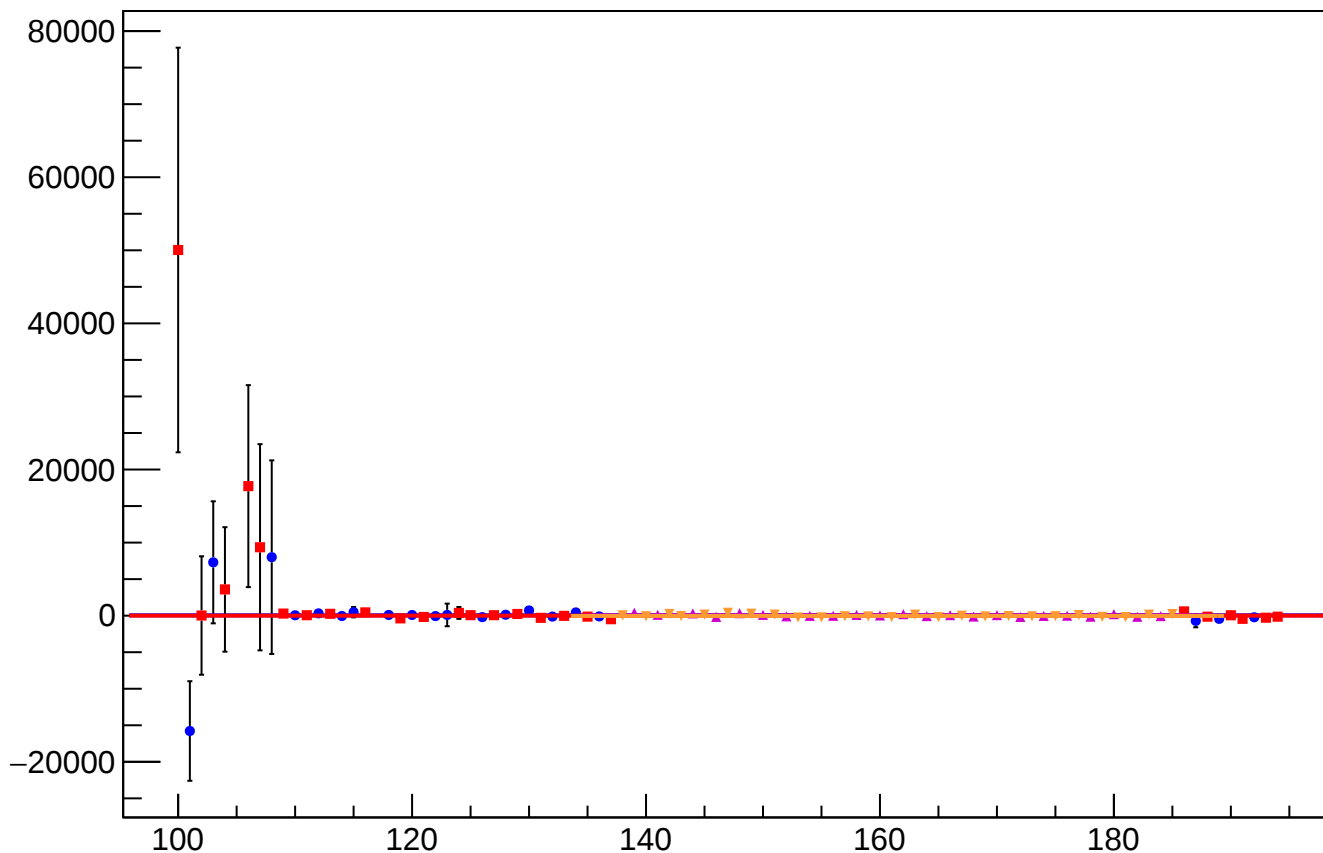
Right: 2.459 $\pm$ 0.001 χ^2 /NDF: 31707453.4/44

In: 2.701 $\pm$ 0.002 χ^2 /NDF: 47464308.7/42

Out: 2.668 $\pm$ 0.001 χ^2 /NDF: 53916098.1/49

All: 2.683 $\pm$ 0.001 χ^2 /NDF: 101380624.6/92

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 49.371+/-85.844 χ^2/NDF : 15.1/19

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: 1.814+/-73.527 χ^2/NDF : 16.6/24

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

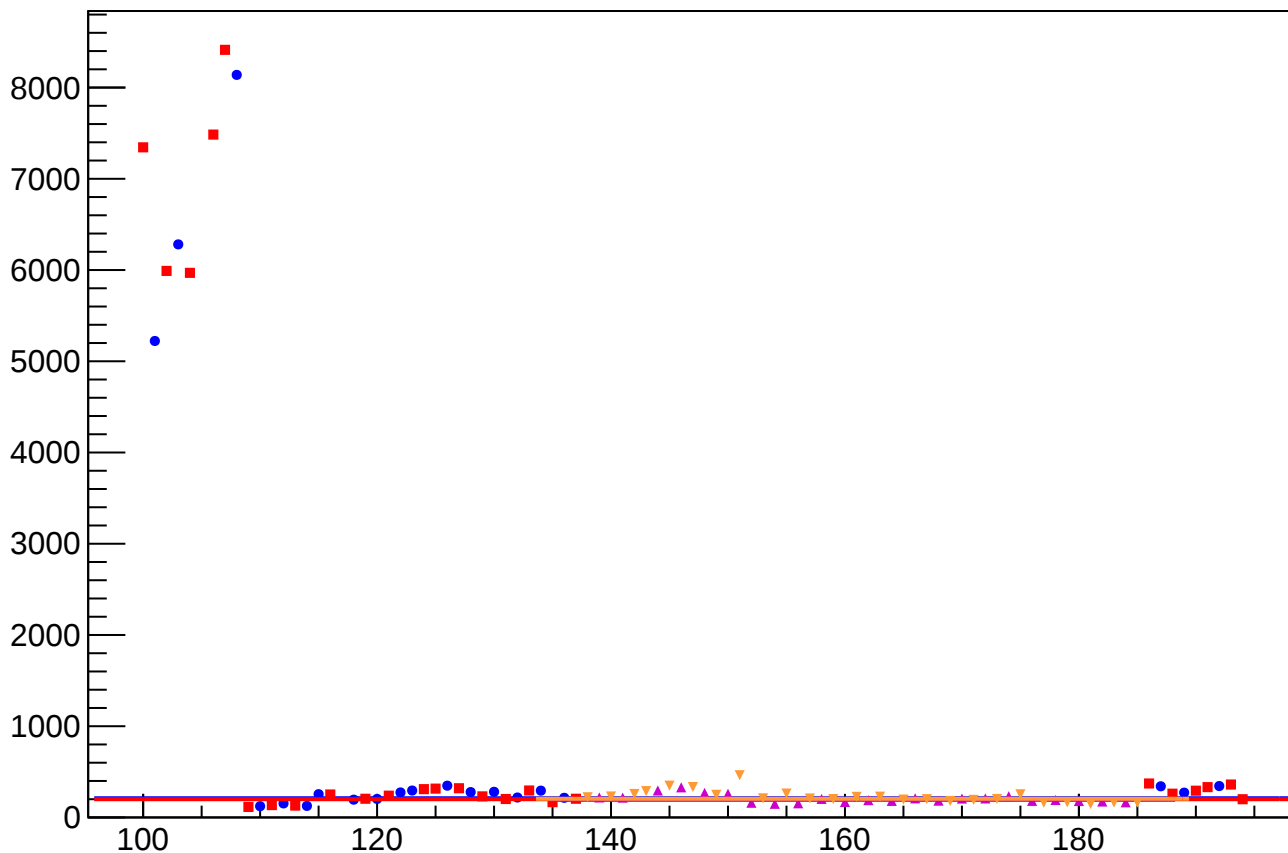
Right: 21.939+/-55.843 χ^2/NDF : 32.0/44

In: 33.273+/-42.006 χ^2/NDF : 24.4/42

Out: -25.548+/-41.135 χ^2/NDF : 26.1/49

All: 3.246+/-29.390 χ^2/NDF : 51.5/92

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 210.495 $\pm$ 0.061 χ^2 /NDF: 4104444.4/19

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF: 1956045.1/24

Right Out: 199.916 $\pm$ 0.052 χ^2 /NDF: 5123520.2/24

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF: 1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

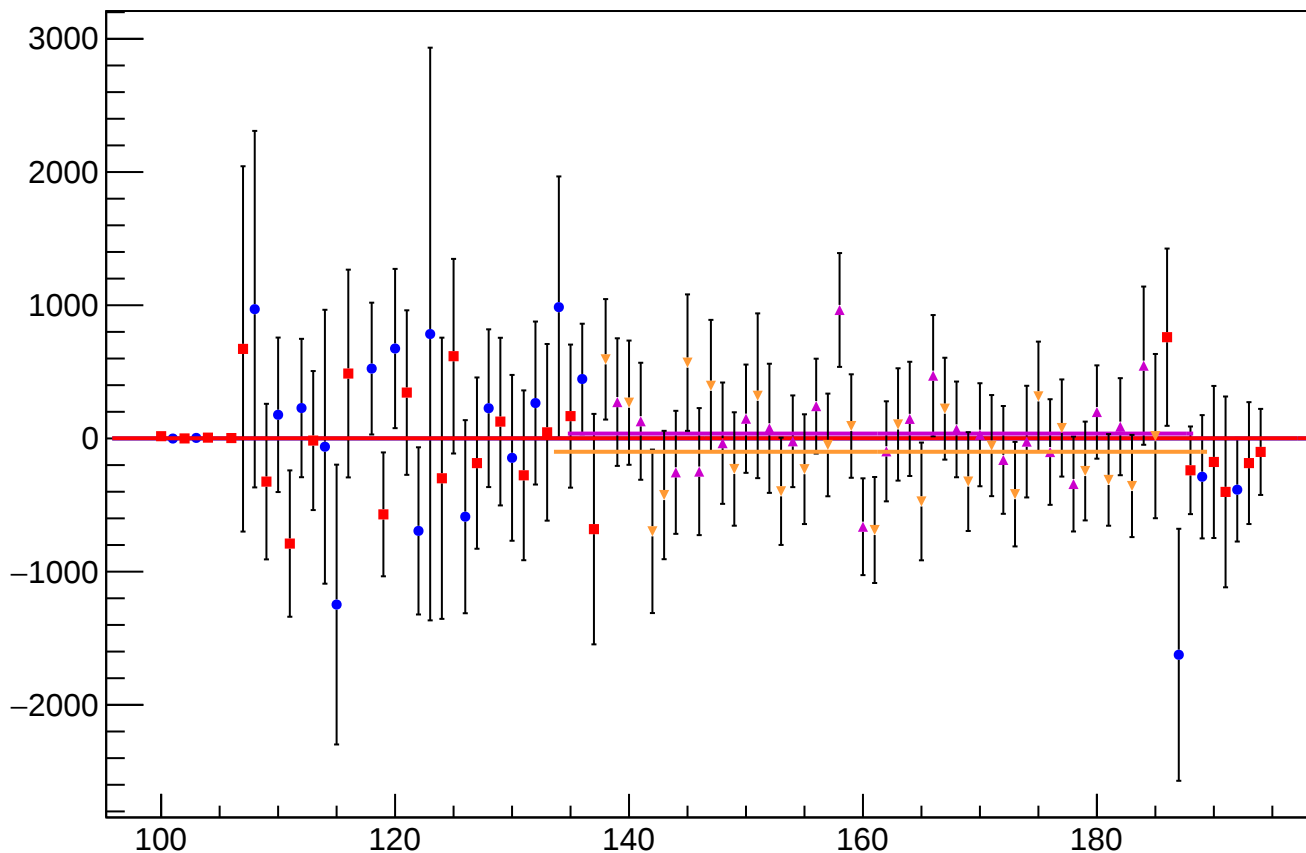
Right: 204.393 $\pm$ 0.039 χ^2 /NDF: 9245487.7/44

In: 197.497 $\pm$ 0.030 χ^2 /NDF: 5336905.2/42

Out: 203.427 $\pm$ 0.029 χ^2 /NDF: 7086205.3/49

All: 200.524 $\pm$ 0.021 χ^2 /NDF: 12443457.5/92

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.157 $\pm$ 1.737 χ^2/NDF : 14.3/19

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.313 $\pm$ 1.622 χ^2/NDF : 11.9/24

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

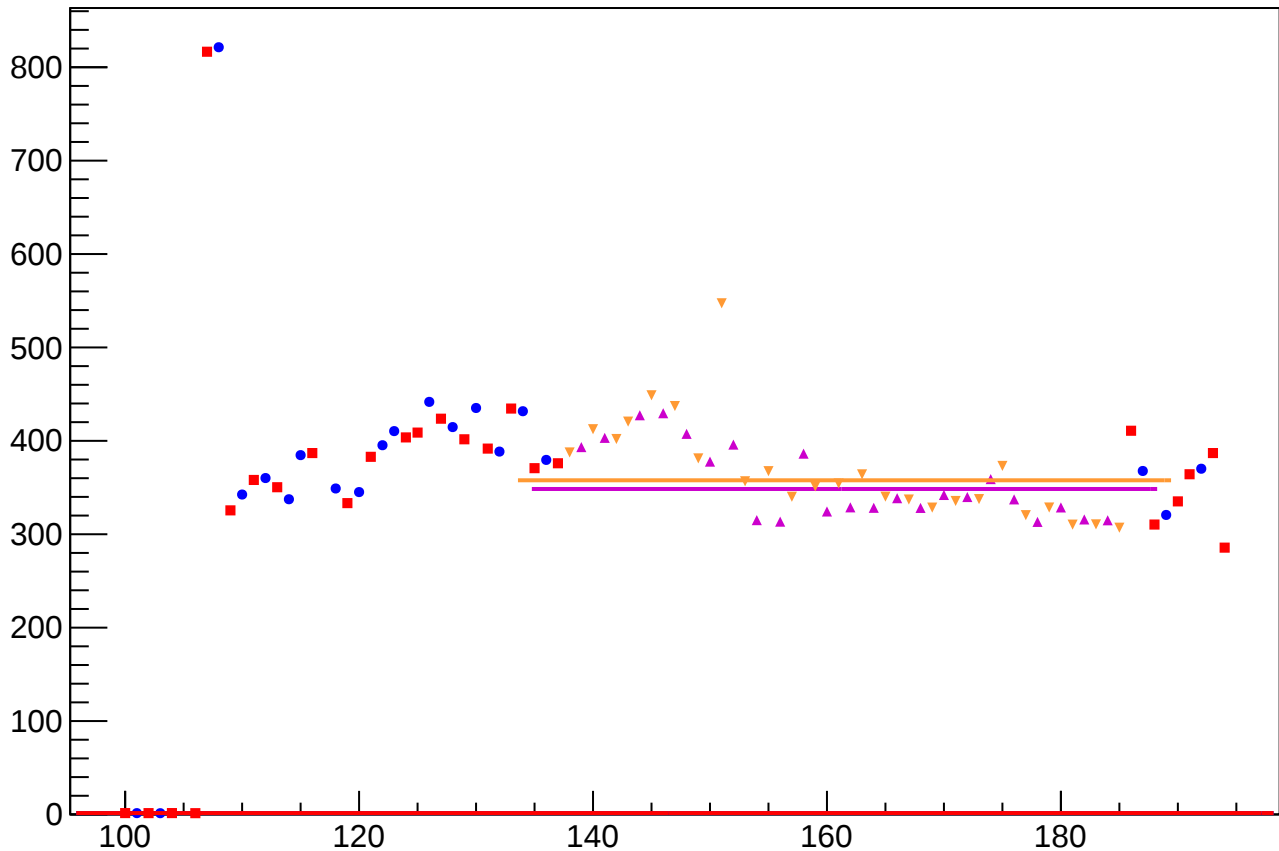
Right: 0.628 $\pm$ 1.186 χ^2/NDF : 26.6/44

In: -0.142 $\pm$ 1.736 χ^2/NDF :28.1/42

Out: 1.275 $\pm$ 1.622 χ^2/NDF :29.1/49

All: 0.615 $\pm$ 1.185 χ^2/NDF : 57.5/92

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.466+/-0.001 χ^2/NDF : 13961493.0/19

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.477+/-0.001 χ^2/NDF : 17523371.1/24

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.145+/-0.042 χ^2/NDF : 919701.2/47

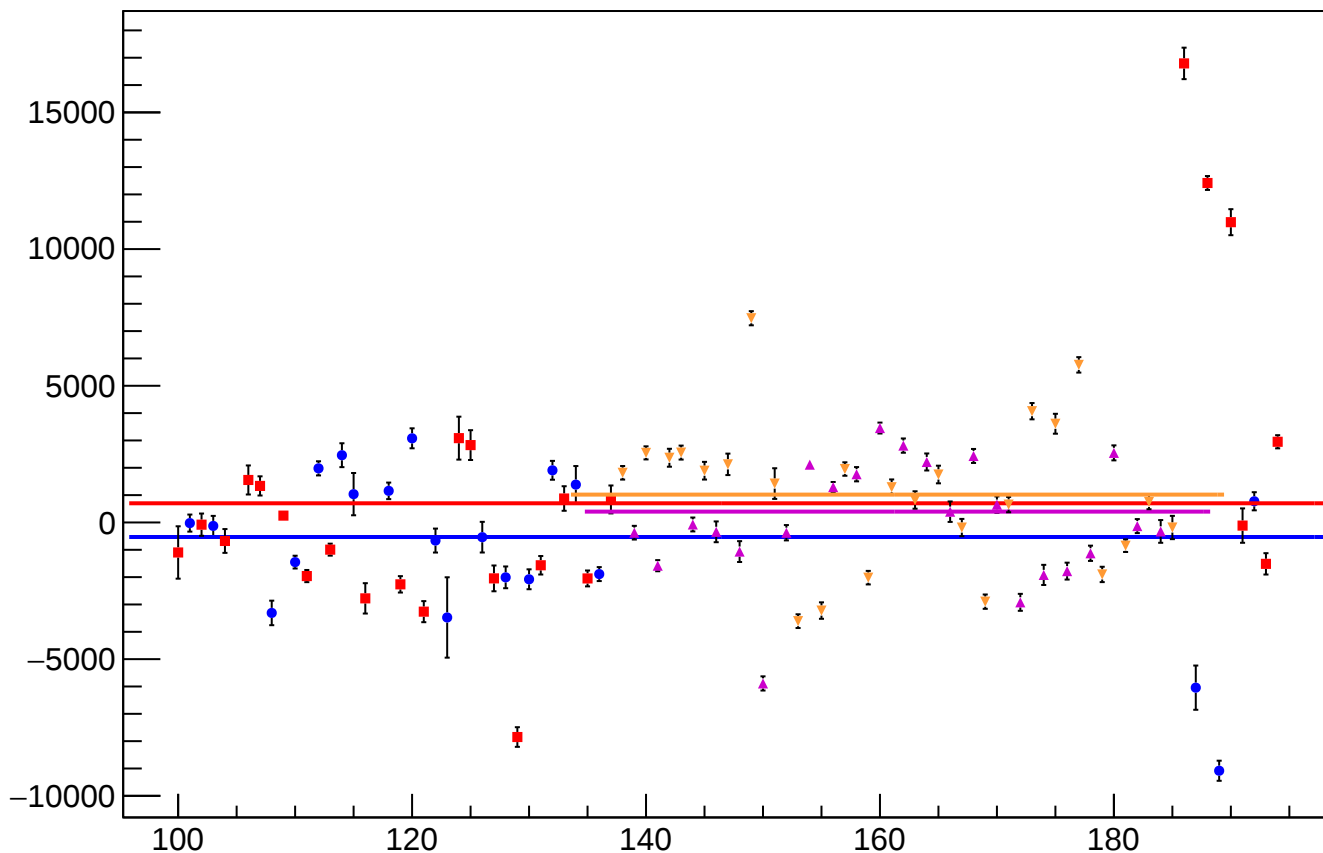
Right: 1.472+/-0.001 χ^2/NDF : 31484913.1/44

In: 1.612+/-0.001 χ^2/NDF : 47894824.2/42

Out: 1.610+/-0.001 χ^2/NDF : 53877372.7/49

All: 1.611+/-0.001 χ^2/NDF : 101772198.1/92

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -531.823 ± 82.243 $\chi^2/\text{NDF}: 1056.4/19$

Left Out: 1018.965 ± 57.402 $\chi^2/\text{NDF}: 2310.1/24$

Right Out: 701.460 ± 68.713 $\chi^2/\text{NDF}: 4731.5/24$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 695.002 ± 39.747 $\chi^2/\text{NDF}: 3952.3/47$

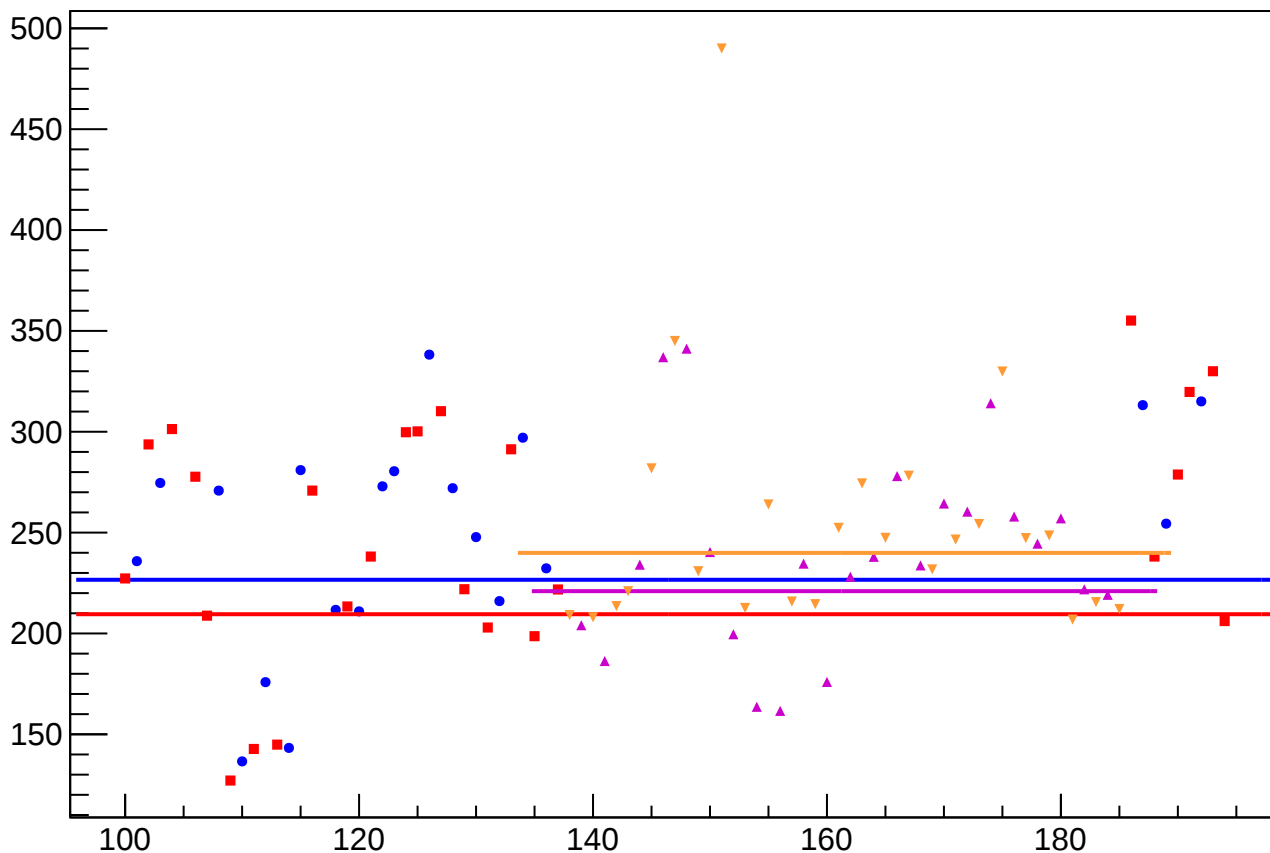
Right: 194.471 ± 52.731 $\chi^2/\text{NDF}: 5920.3/44$

In: 109.051 ± 45.770 $\chi^2/\text{NDF}: 2725.4/42$

Out: 888.462 ± 44.053 $\chi^2/\text{NDF}: 7054.2/49$

All: 513.654 ± 31.740 $\chi^2/\text{NDF}: 9930.1/92$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 226.613 ± 0.058 χ^2/NDF : 857765.3/19

Left Out: 239.942 ± 0.041 χ^2/NDF : 1000770.0/24

Right Out: 209.539 ± 0.049 χ^2/NDF : 1696385.0/24

Left In: 220.972 ± 0.039 χ^2/NDF : 1327680.6/22

Left: 230.067 ± 0.028 χ^2/NDF : 2442154.9/47

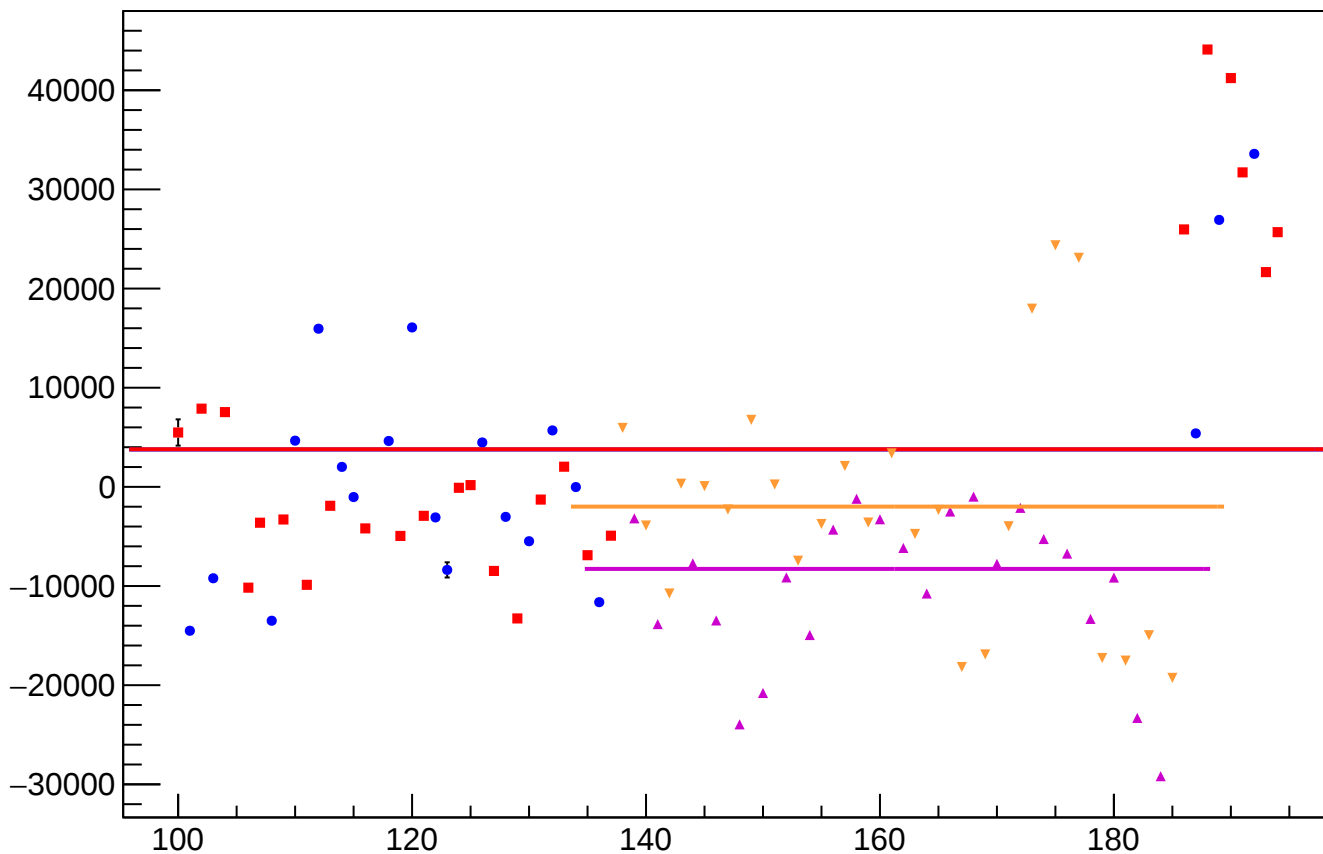
Right: 216.558 ± 0.037 χ^2/NDF : 2604915.3/44

In: 222.719 ± 0.032 χ^2/NDF : 2191941.3/42

Out: 227.445 ± 0.031 χ^2/NDF : 2927767.4/49

All: 225.172 ± 0.022 χ^2/NDF : 5130780.0/92

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3767.726+/-51.329 χ^2/NDF : 67970.3/19

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 3792.448+/-46.060 χ^2/NDF : 126411.3/24

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

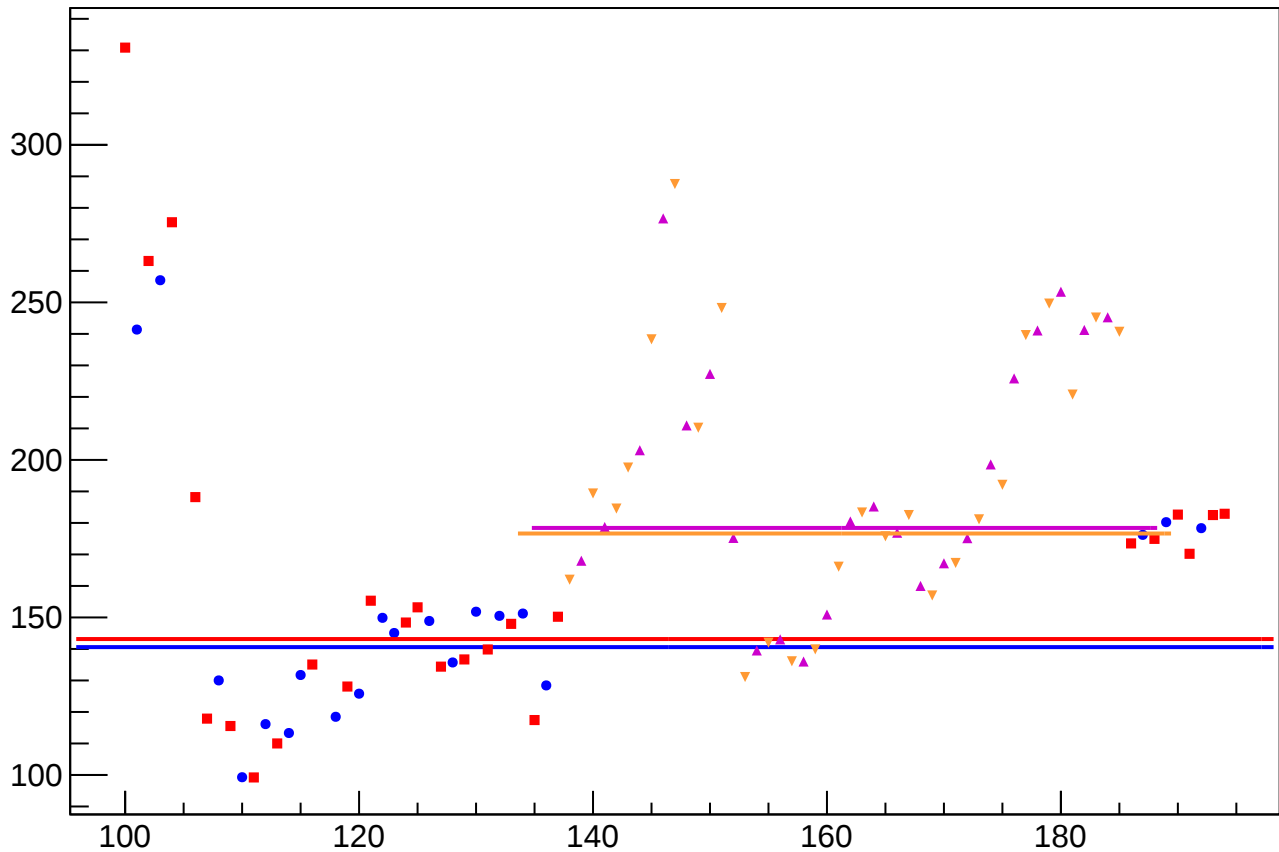
Right: 3781.420+/-34.281 χ^2/NDF : 194381.7/44

In: -3132.875+/-33.537 χ^2/NDF : 122377.7/42

Out: 663.213+/-31.206 χ^2/NDF : 198709.5/49

All: -1098.305+/-22.846 χ^2/NDF : 327953.9/9

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 140.583 ± 0.036 χ^2/NDF : 816529.9/19

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 143.145 ± 0.033 χ^2/NDF : 1182079.7/24

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

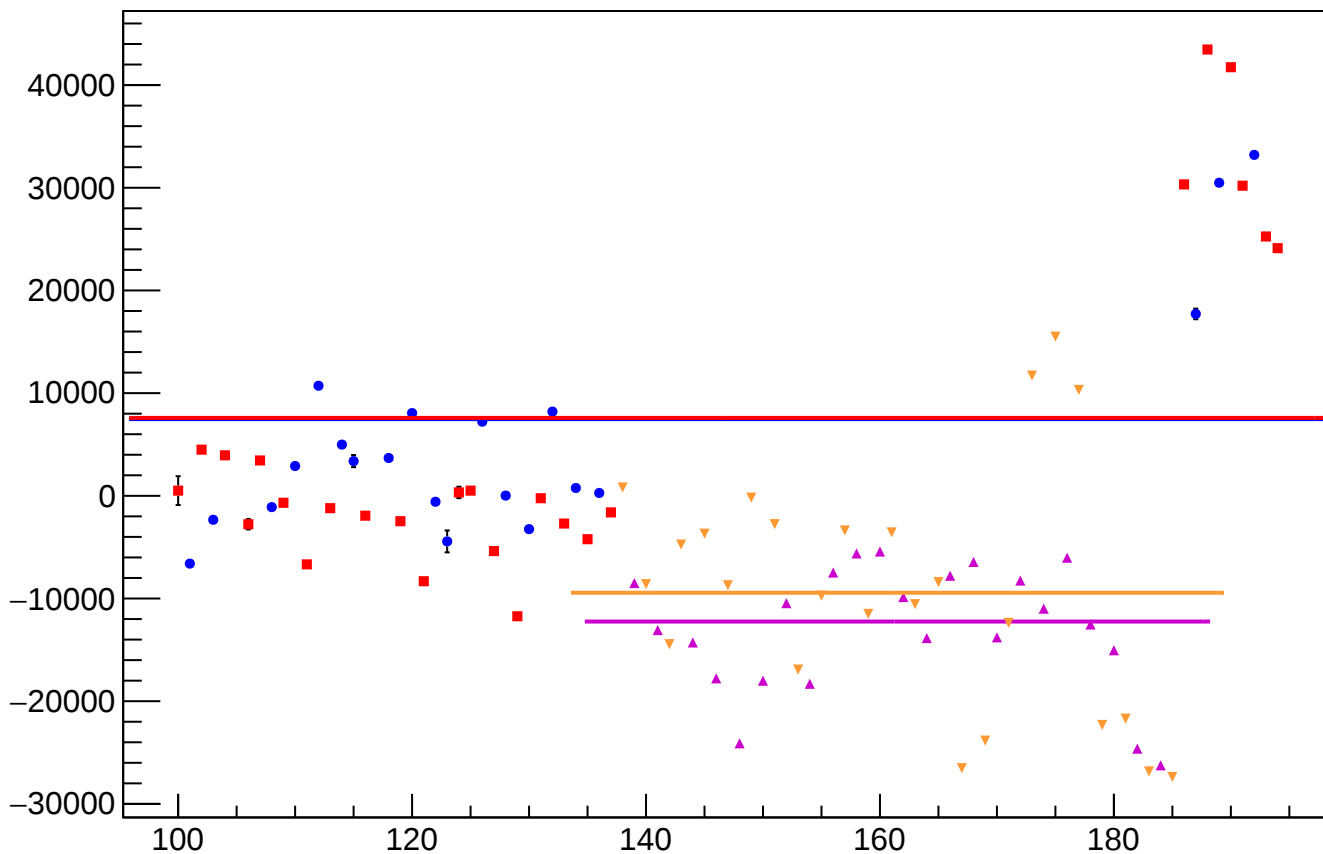
Right: 142.002 ± 0.024 χ^2/NDF : 2001370.2/44

In: 162.263 ± 0.024 χ^2/NDF : 2732874.3/42

Out: 161.266 ± 0.022 χ^2/NDF : 3305328.3/49

All: 161.729 ± 0.016 χ^2/NDF : 6039150.4/92

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7473.094+/-64.743 χ^2/NDF : 30580.6/19

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 7589.026+/-55.671 χ^2/NDF : 95958.6/24

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

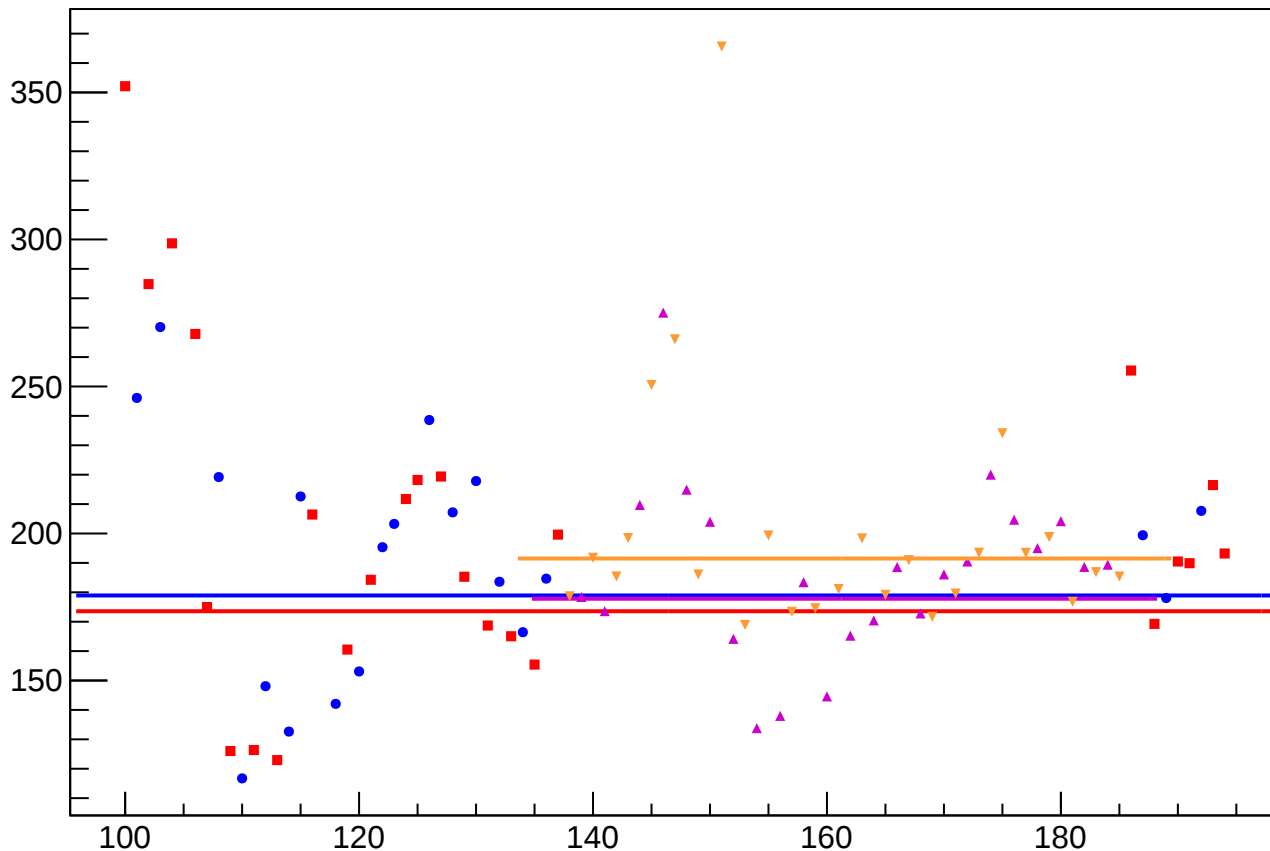
Right: 7539.745+/-42.212 χ^2/NDF : 126541.0/44

In: -6023.997+/-36.360 χ^2/NDF : 110680.2/42

Out: -2612.646+/-35.246 χ^2/NDF : 214223.5/49

All: -4265.282+/-25.307 χ^2/NDF : 329441.8/99

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.926+/-0.046 χ^2/NDF : 730087.3/19

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 173.567+/-0.039 χ^2/NDF : 1112478.4/24

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

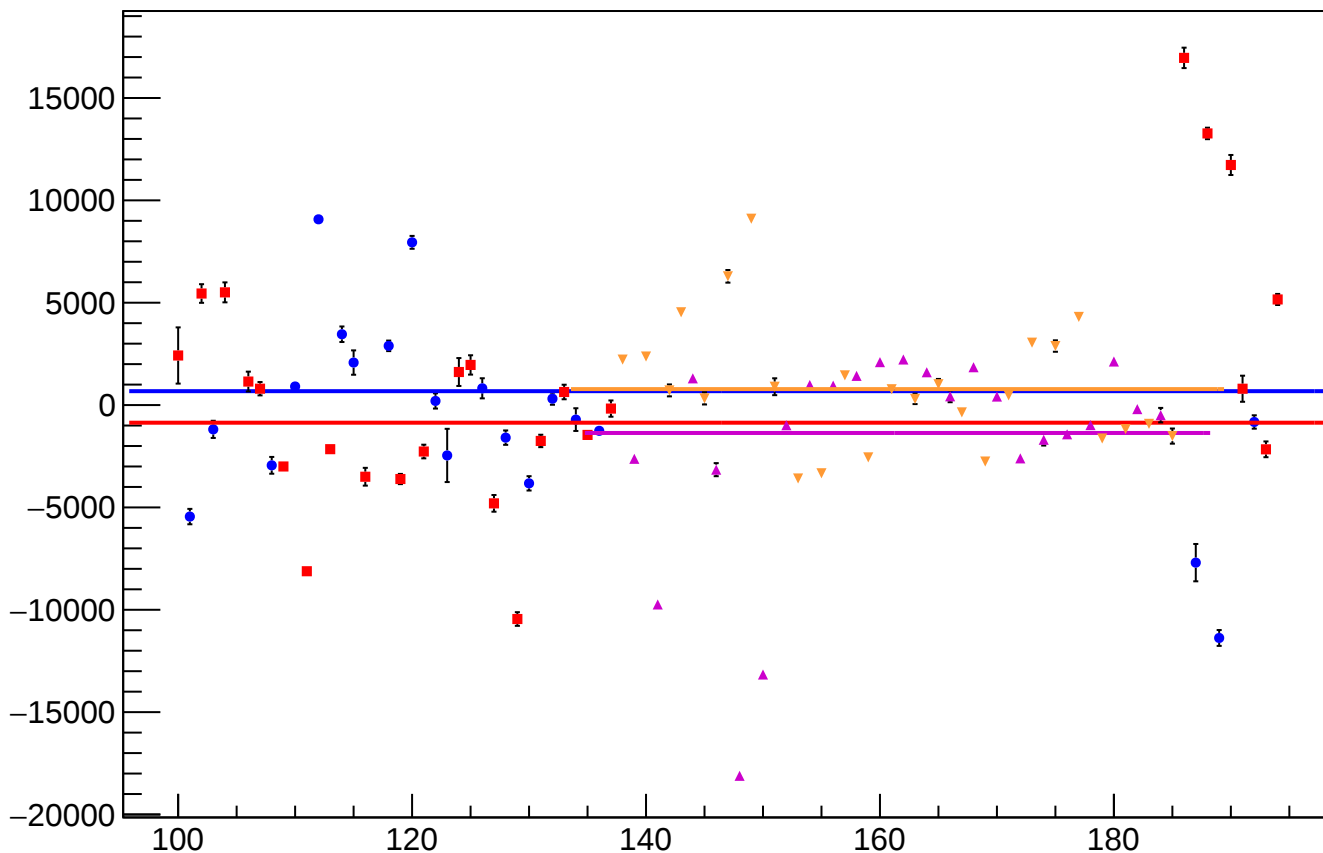
Right: 175.845+/-0.030 χ^2/NDF : 1850441.5/44

In: 178.170+/-0.026 χ^2/NDF : 1592979.8/42

Out: 184.316+/-0.025 χ^2/NDF : 1964162.3/49

All: 181.338+/-0.018 χ^2/NDF : 3586606.0/92

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 678.890+/-73.629 χ^2/NDF : 3787.8/19

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -861.291+/-63.529 χ^2/NDF : 8194.2/24

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

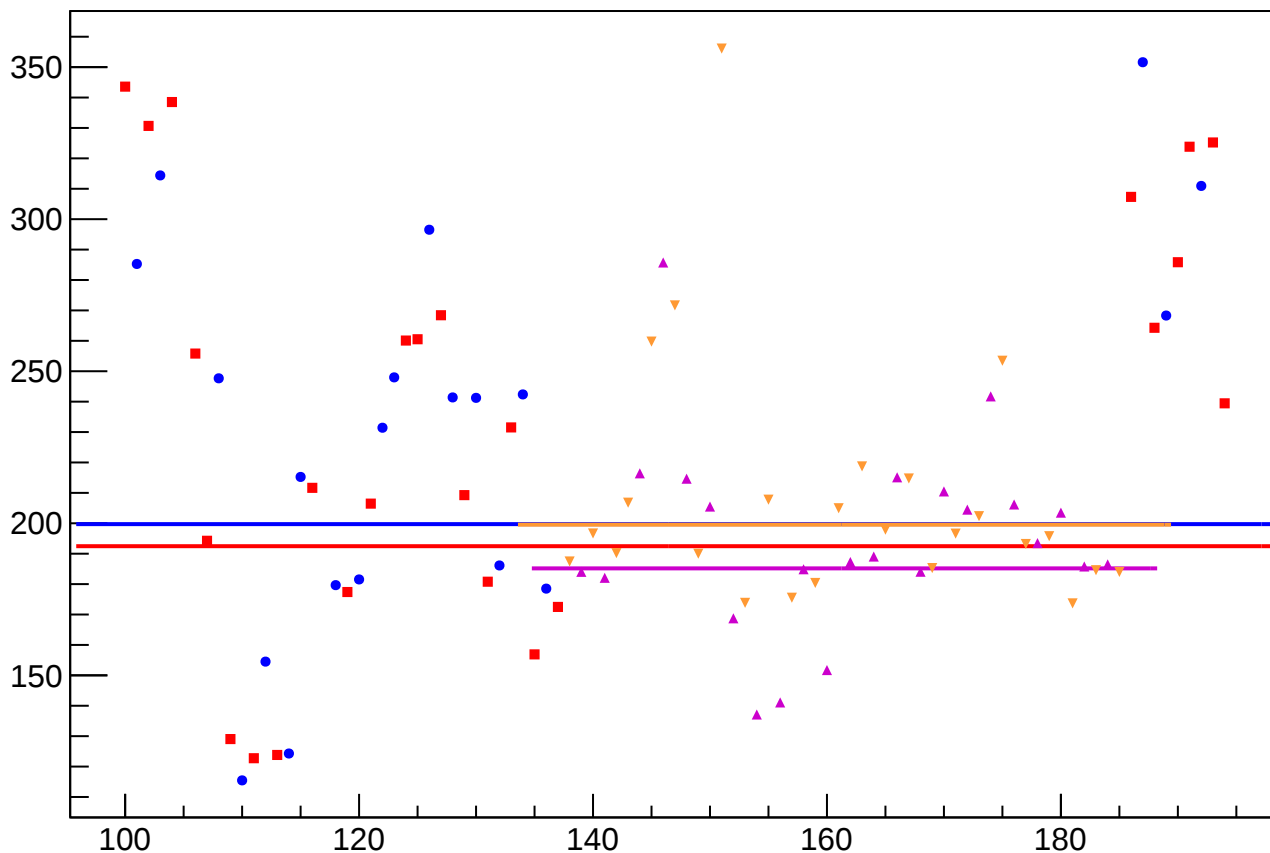
Right: -204.000+/-48.099 χ^2/NDF : 12232.8/44

In: -793.255+/-38.894 χ^2/NDF : 15975.2/42

Out: 192.134+/-38.020 χ^2/NDF : 12883.4/49

All: -289.367+/-27.188 χ^2/NDF : 29186.8/92

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.724 $\pm$ 0.052 χ^2 /NDF: 1360276.6/19

Left Out: 199.547 $\pm$ 0.034 χ^2 /NDF: 729356.3/24

Right Out: 192.468 $\pm$ 0.045 χ^2 /NDF: 2112538.3/24

Left In: 185.171 $\pm$ 0.032 χ^2 /NDF: 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2 /NDF: 1707122.0/47

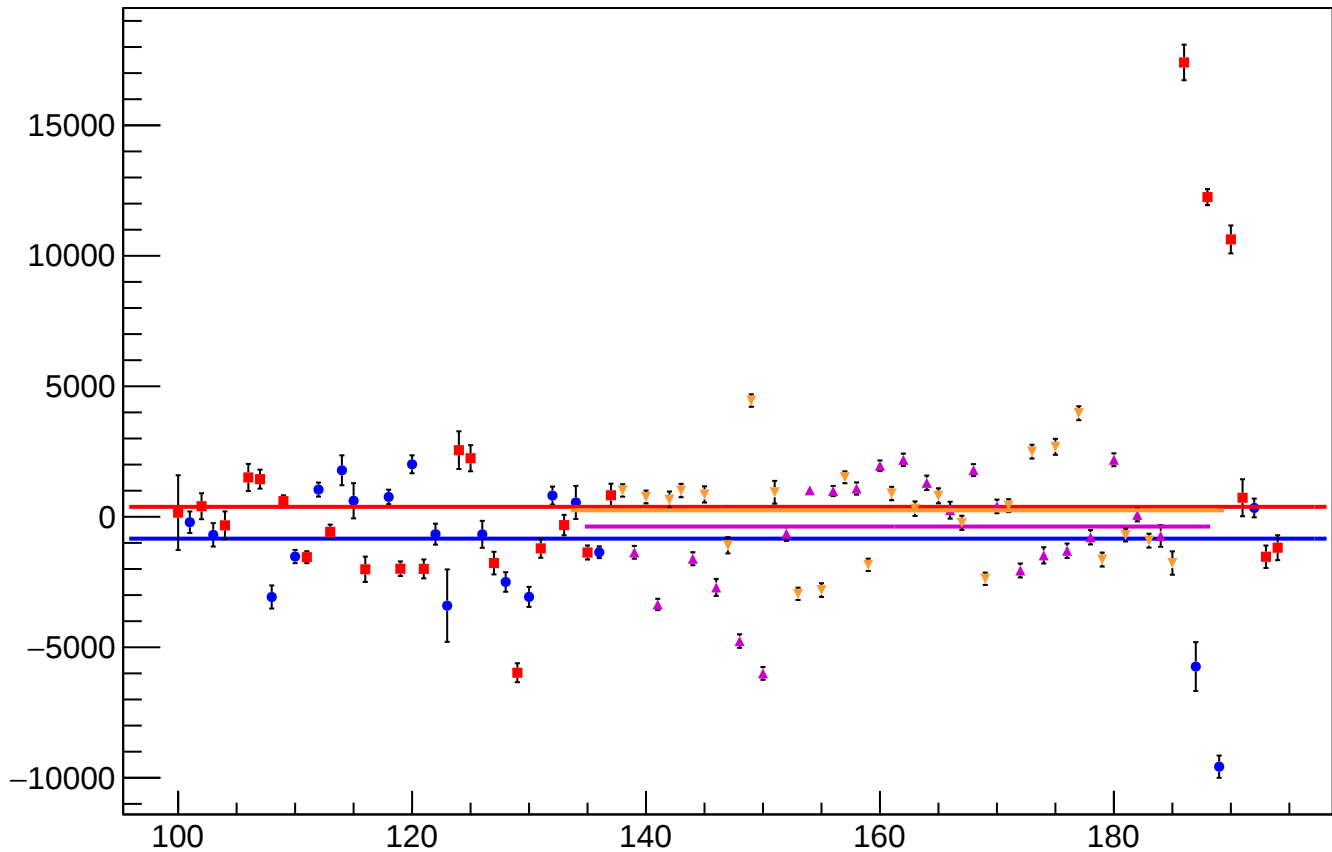
Right: 195.565 $\pm$ 0.034 χ^2 /NDF: 3483950.8/44

In: 189.232 $\pm$ 0.028 χ^2 /NDF: 2299366.9/42

Out: 197.011 $\pm$ 0.027 χ^2 /NDF: 2857832.6/49

All: 193.210 $\pm$ 0.019 χ^2 /NDF: 5198117.1/92

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -836.936 ± 84.156 $\chi^2/\text{NDF}: 759.4/19$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 381.561 ± 75.417 $\chi^2/\text{NDF}: 3161.8/24$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

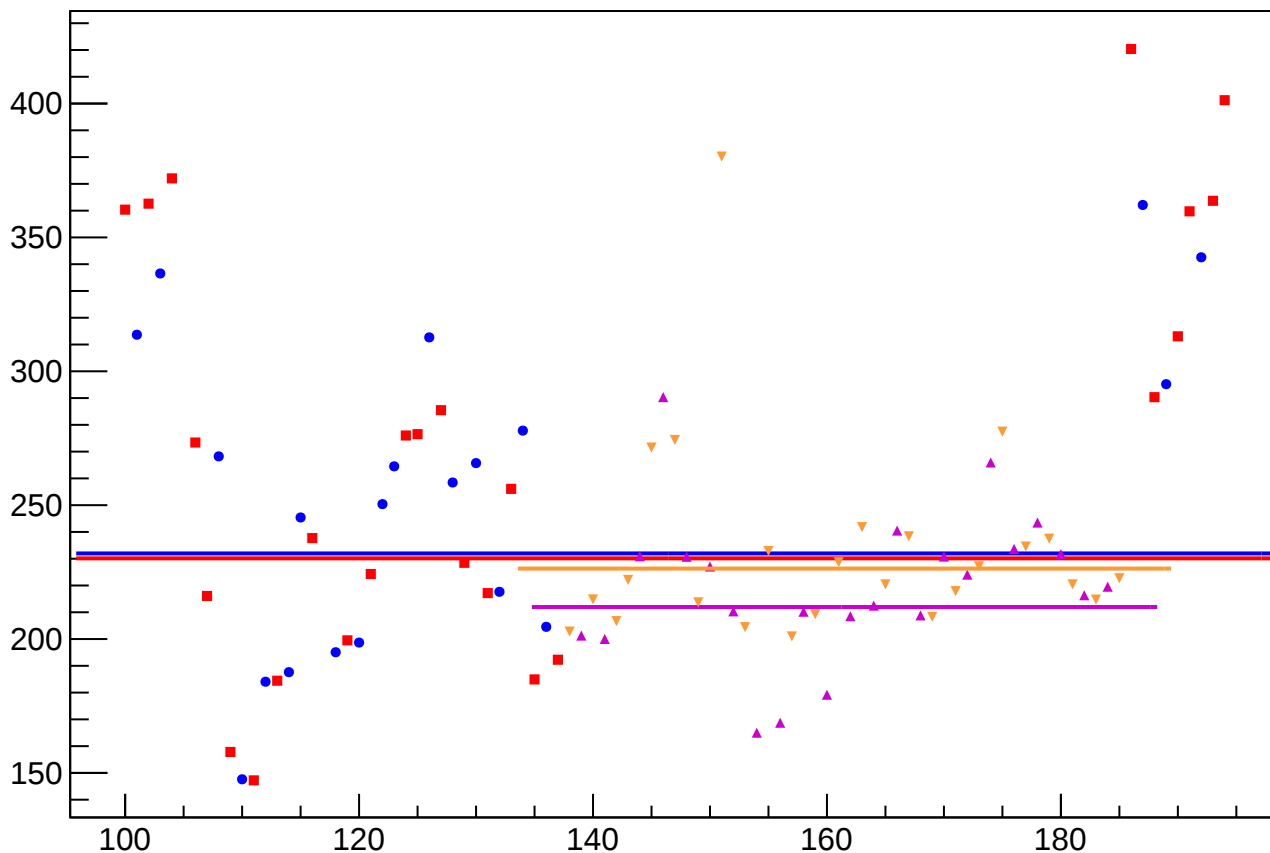
Right: -161.157 ± 56.164 $\chi^2/\text{NDF}: 4037.5/44$

In: -502.175 ± 44.267 $\chi^2/\text{NDF}: 2582.3/42$

Out: 292.669 ± 43.665 $\chi^2/\text{NDF}: 4519.0/49$

All: -99.318 ± 31.086 $\chi^2/\text{NDF}: 7264.7/92$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 231.969 $\pm$ 0.060 χ^2/NDF : 945257.7/19

Left Out: 226.322 $\pm$ 0.038 χ^2/NDF : 521041.8/24

Right Out: 230.133 $\pm$ 0.053 χ^2/NDF : 1802582.1/24

Left In: 211.970 $\pm$ 0.037 χ^2/NDF : 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2/NDF : 1179246.7/47

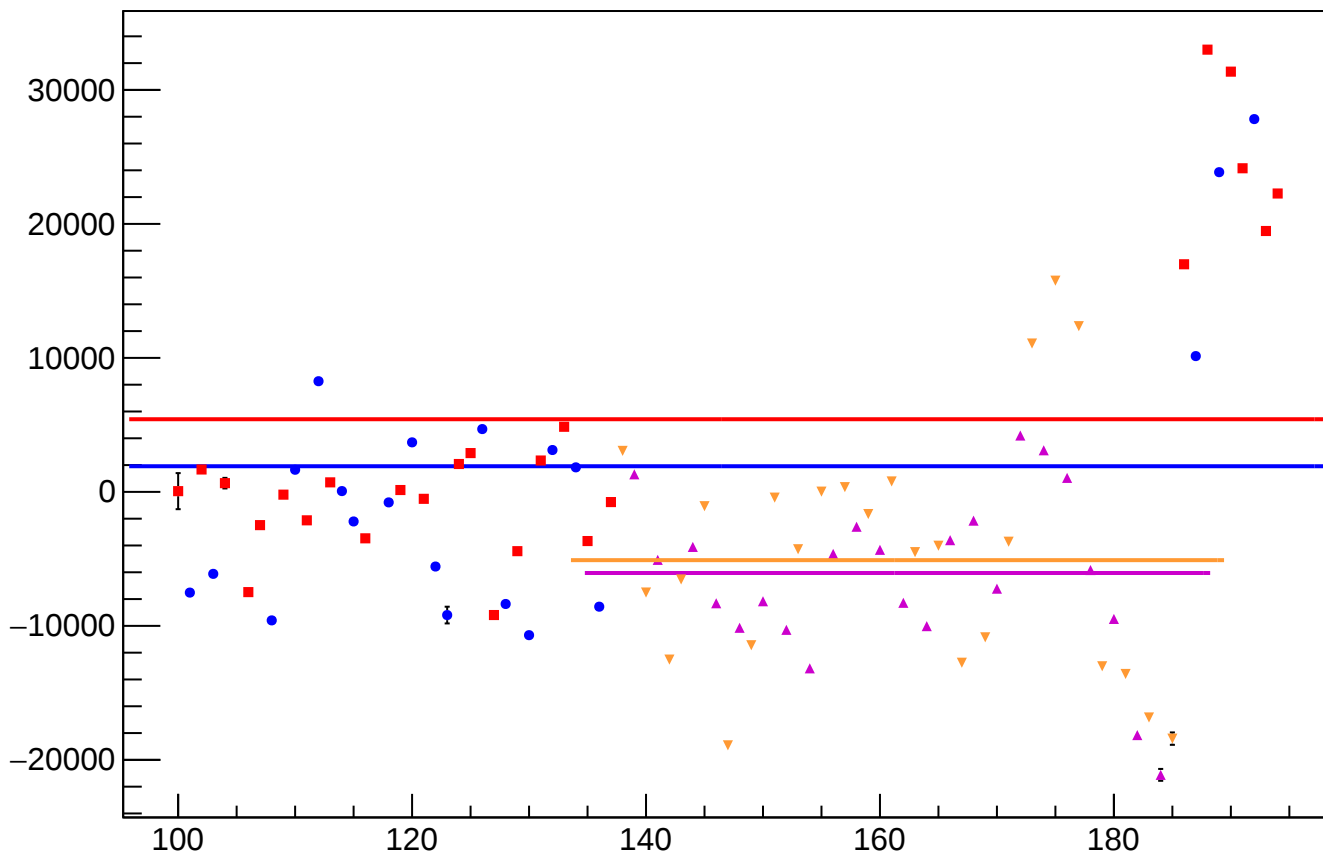
Right: 230.951 $\pm$ 0.040 χ^2/NDF : 2748367.9/44

In: 217.504 $\pm$ 0.031 χ^2/NDF : 1611300.5/42

Out: 227.599 $\pm$ 0.031 χ^2/NDF : 2327019.7/49

All: 222.621 $\pm$ 0.022 χ^2/NDF : 3991046.6/92

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1914.132 ± 43.764 $\chi^2/\text{NDF}: 66286.8/19$

Left Out: -5095.305 ± 33.703 $\chi^2/\text{NDF}: 54395.4/24$

Right Out: 5422.293 ± 38.826 $\chi^2/\text{NDF}: 99652.5/24$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5556.386 ± 24.277 $\chi^2/\text{NDF}: 72374.6/47$

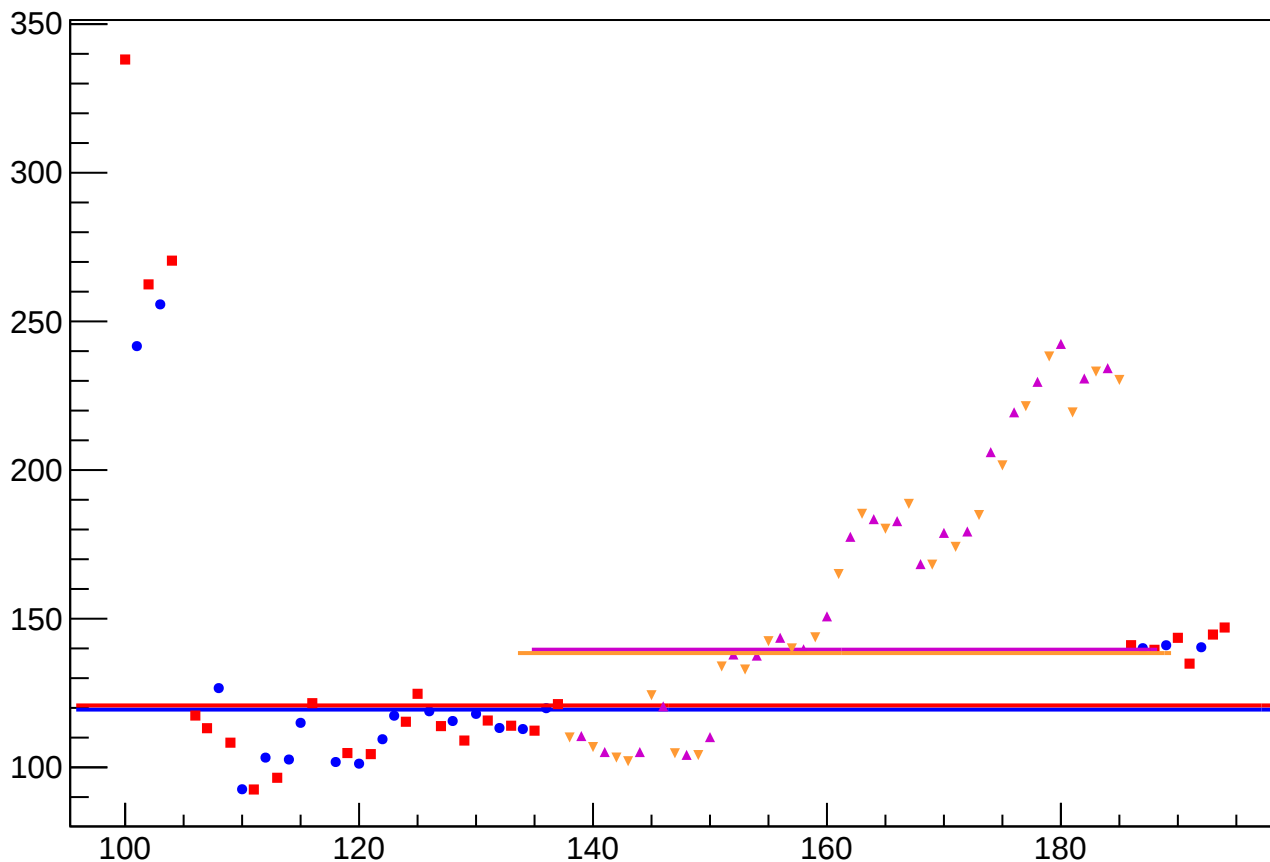
Right: 3877.223 ± 29.044 $\chi^2/\text{NDF}: 169535.0/44$

In: -2945.642 ± 27.333 $\chi^2/\text{NDF}: 104094.0/42$

Out: -575.620 ± 25.452 $\chi^2/\text{NDF}: 195896.0/49$

All: -1676.272 ± 18.627 $\chi^2/\text{NDF}: 304016.9/9$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 119.434+/-0.031 χ^2/NDF : 824616.6/19

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 120.827+/-0.027 χ^2/NDF : 1013129.4/24

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

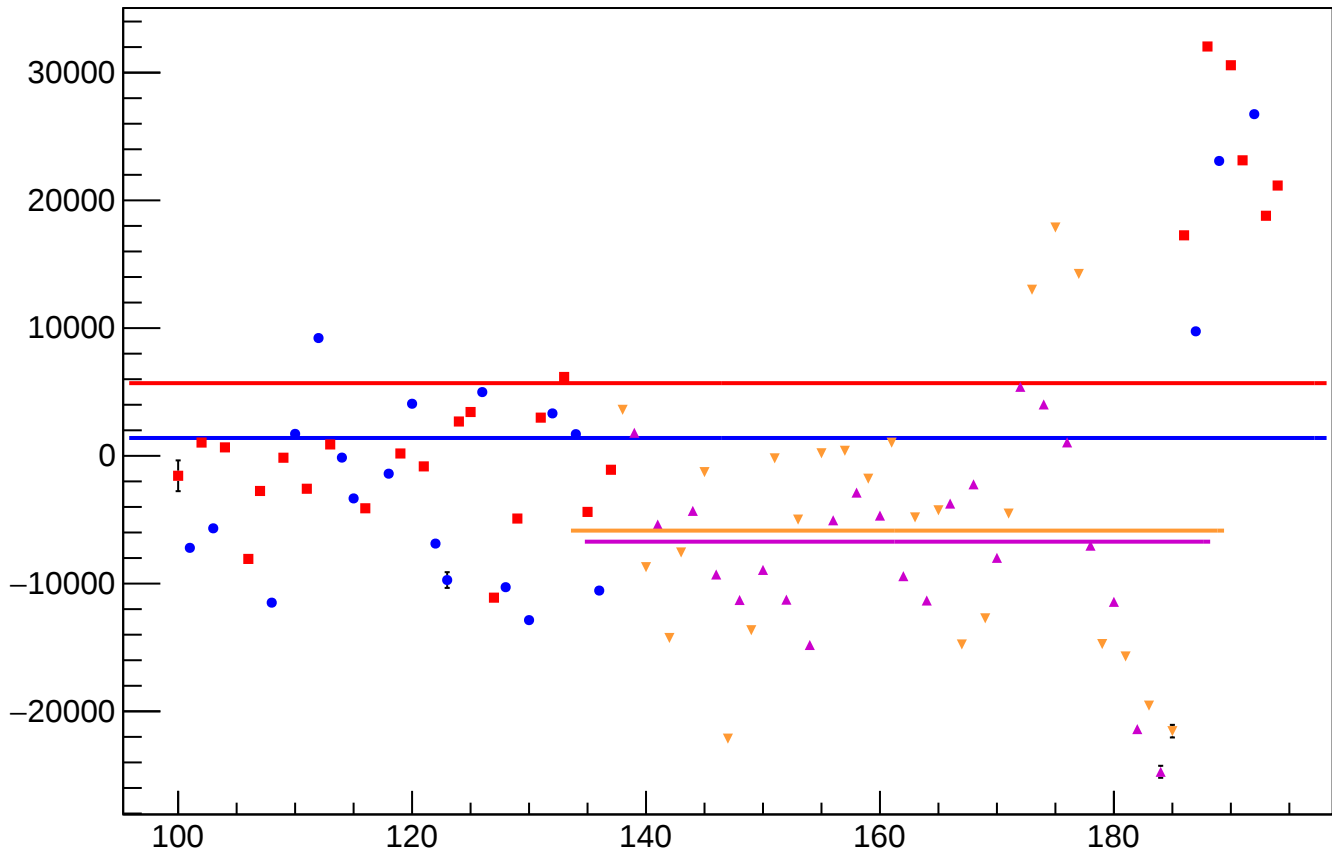
Right: 120.214+/-0.021 χ^2/NDF : 1838880.2/44

In: 131.720+/-0.019 χ^2/NDF : 3496715.8/42

Out: 130.869+/-0.018 χ^2/NDF : 3797158.2/49

All: 131.264+/-0.013 χ^2/NDF : 7294913.6/92

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1398.755 +/- 44.390 χ^2/NDF : 71278.6/19

Left Out: -5852.544 +/- 35.880 χ^2/NDF : 63411.4/24

Right Out: 5691.052 +/- 39.432 χ^2/NDF : 99887.4/24

Left In: -6718.475 +/- 37.276 χ^2/NDF : 20934.3/22

Left: -6268.993 +/- 25.850 χ^2/NDF : 84625.8/47

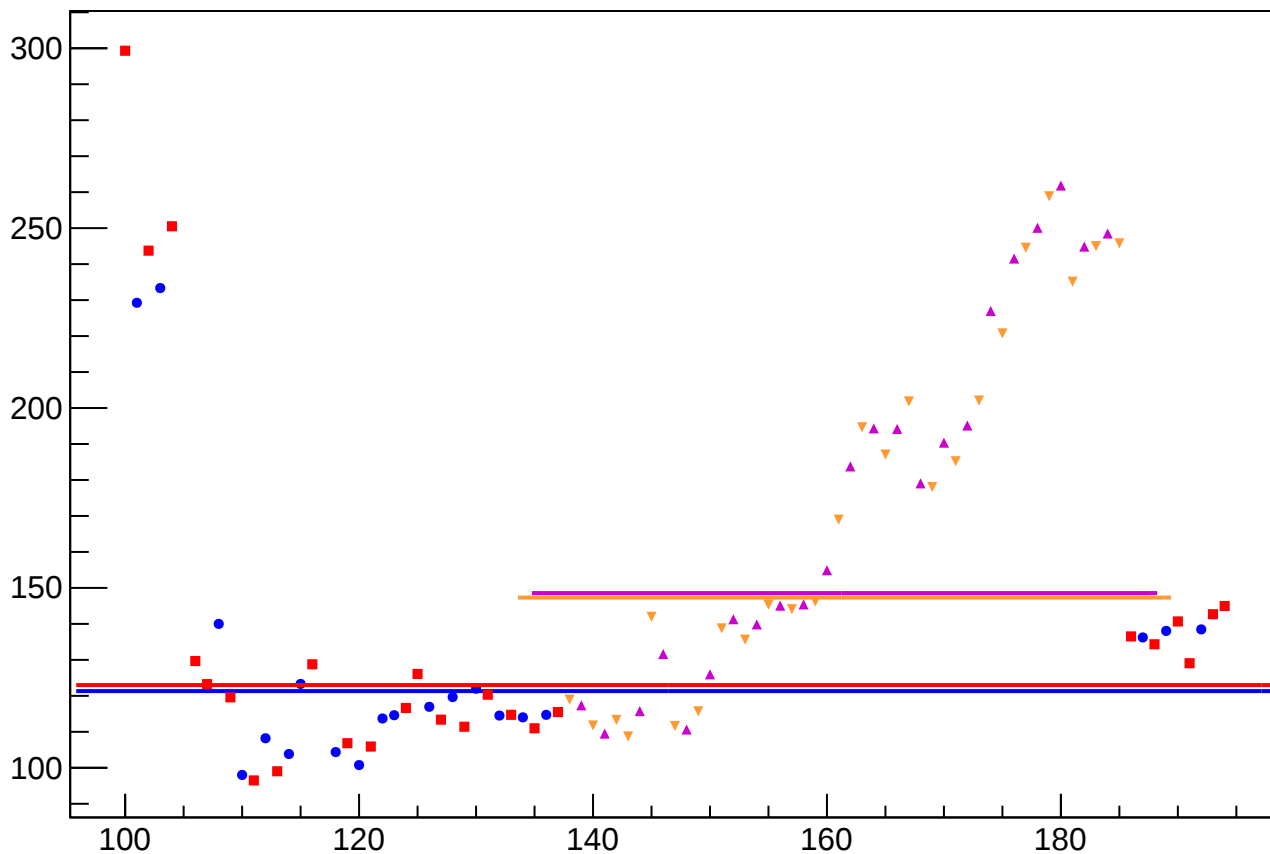
Right: 3797.884 +/- 29.480 χ^2/NDF : 176392.2/44

In: -3361.637 +/- 28.546 χ^2/NDF : 111823.4/42

Out: -624.010 +/- 26.538 χ^2/NDF : 210182.6/49

All: -1893.170 +/- 19.436 χ^2/NDF : 326939.5/9

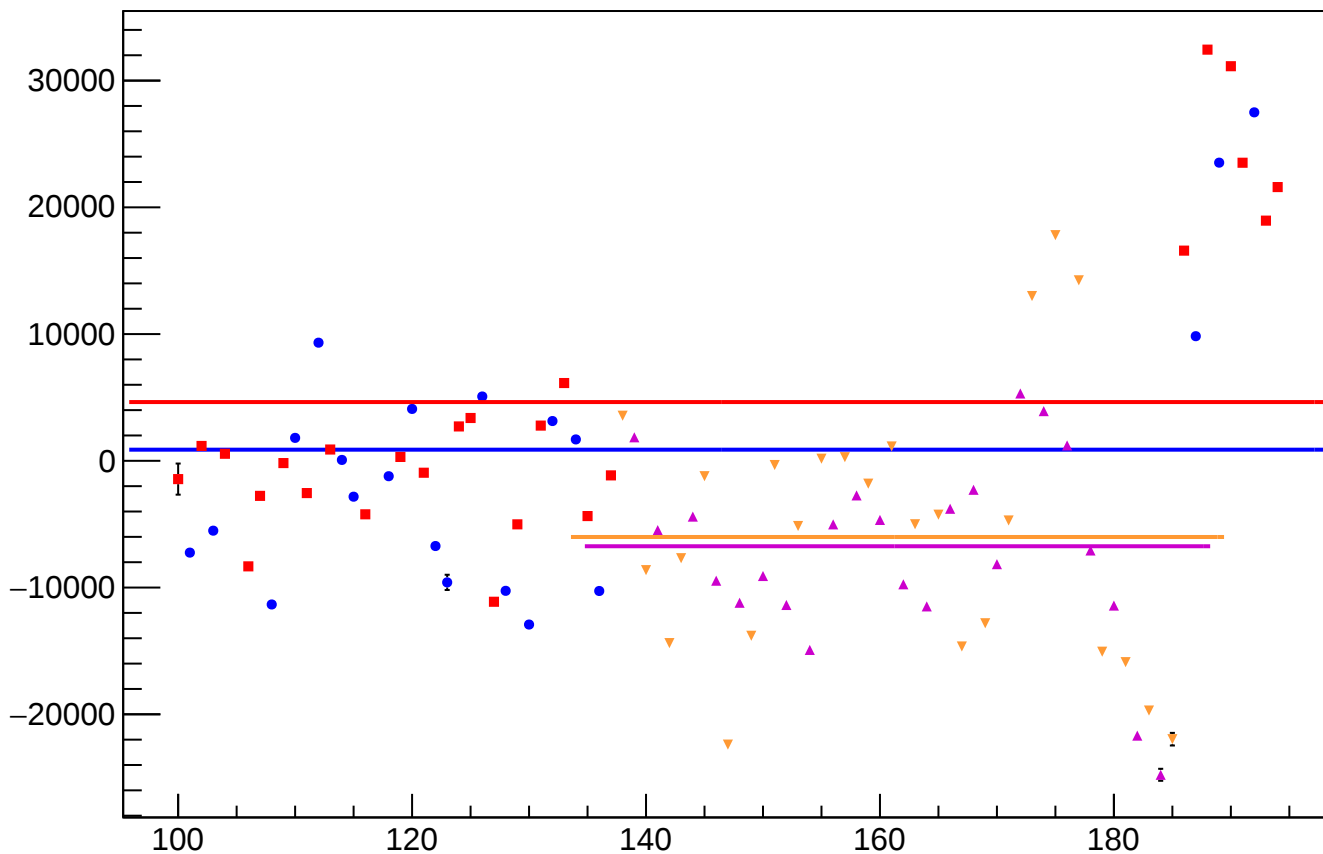
asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 121.324+/-0.031 χ^2/NDF : 689879.9/19
 Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24
 Right Out: 123.001+/-0.028 χ^2/NDF : 822017.9/24
 Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47
 Right: 122.262+/-0.021 χ^2/NDF : 1513494.2/44
 In: 137.302+/-0.020 χ^2/NDF : 3524903.0/42
 Out: 136.304+/-0.019 χ^2/NDF : 3749745.5/49
 All: 136.766+/-0.014 χ^2/NDF : 7275959.8/92

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 879.118+/-43.269 χ^2/NDF : 69833.5/19

Left Out: -6009.913+/-35.082 χ^2/NDF : 67852.2/24

Right Out: 4636.322+/-38.834 χ^2/NDF : 94950.0/24

Left In: -6740.666+/-36.379 χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253 χ^2/NDF : 90133.1/47

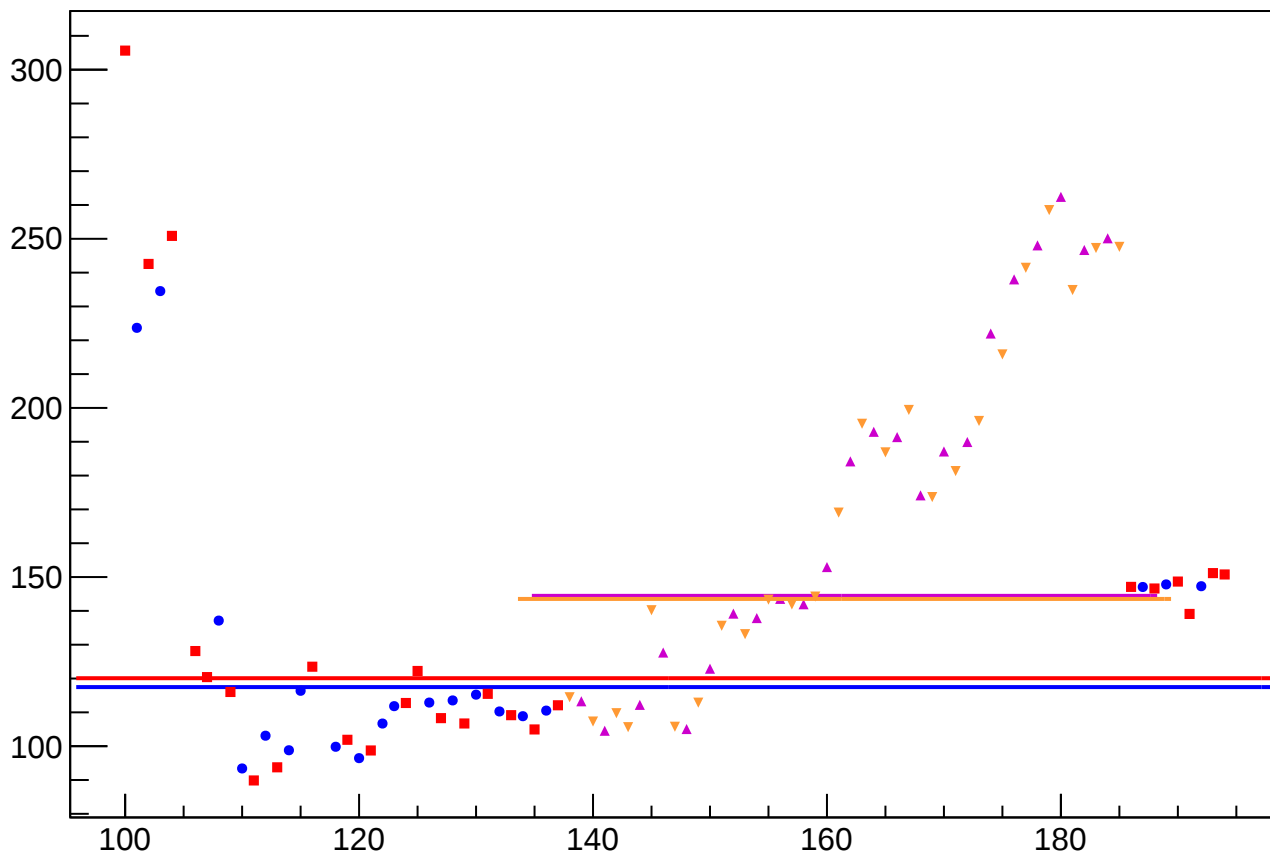
Right: 2960.075+/-28.901 χ^2/NDF : 168959.7/44

In: -3584.960+/-27.845 χ^2/NDF : 110074.2/42

Out: -1225.739+/-26.032 χ^2/NDF : 204185.6/49

All: -2326.065+/-19.016 χ^2/NDF : 318090.3/9

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 117.468 $\pm$ 0.031 χ^2 /NDF: 825274.2/19

Left Out: 143.531 $\pm$ 0.025 χ^2 /NDF: 2704790.3/24

Right Out: 120.093 $\pm$ 0.027 χ^2 /NDF: 1089299.8/24

Left In: 144.440 $\pm$ 0.026 χ^2 /NDF: 2586926.1/22

Left: 143.969 $\pm$ 0.018 χ^2 /NDF: 5292363.3/47

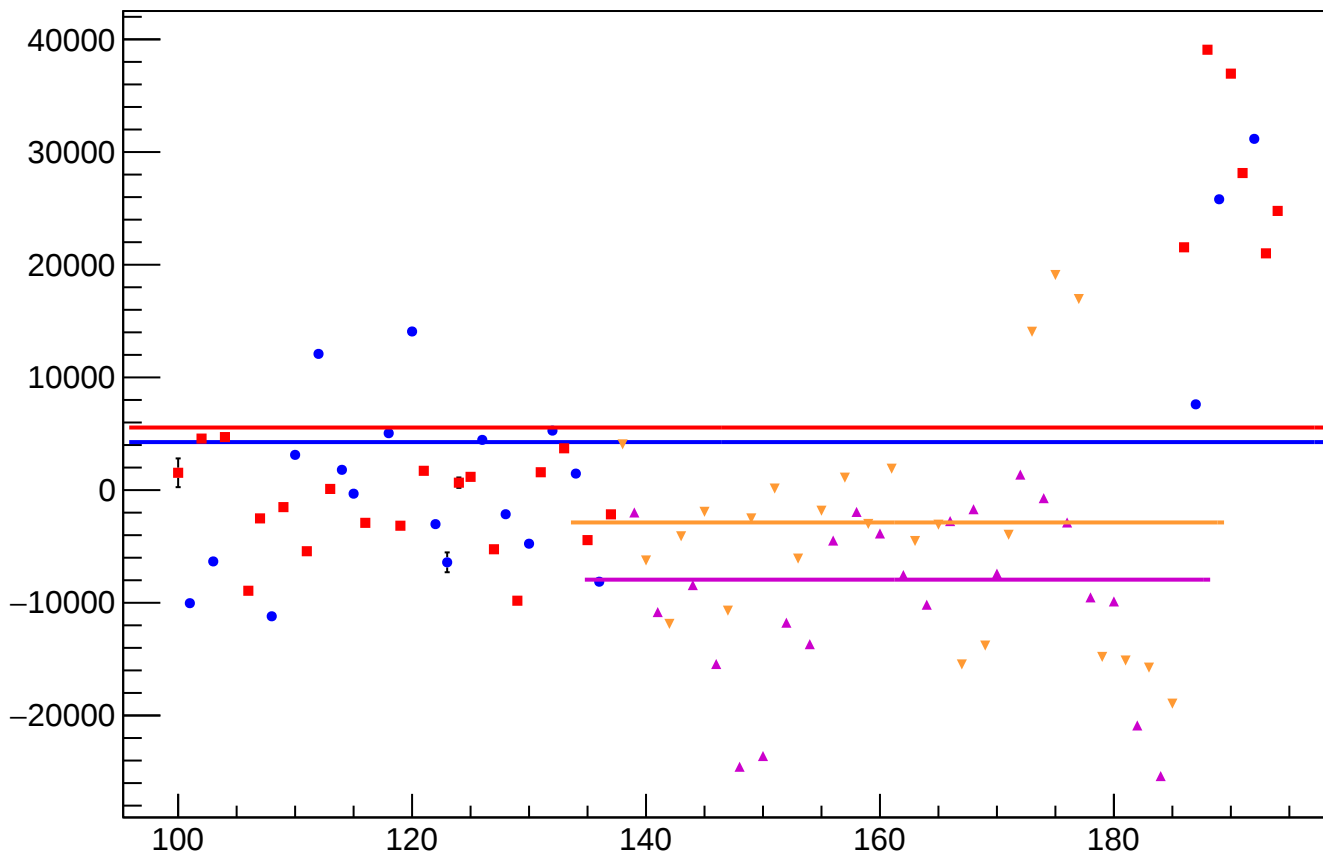
Right: 118.922 $\pm$ 0.020 χ^2 /NDF: 1918653.0/44

In: 133.269 $\pm$ 0.020 χ^2 /NDF: 3867506.1/42

Out: 132.998 $\pm$ 0.018 χ^2 /NDF: 4195221.6/49

All: 133.125 $\pm$ 0.013 χ^2 /NDF: 8062828.7/92

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 4260.834 $\pm$ 52.156 χ^2/NDF : 51425.3/19

Left Out: -2870.473 $\pm$ 39.482 χ^2/NDF : 46420.3/24

Right Out: 5553.687 $\pm$ 46.830 χ^2/NDF : 92292.6/24

Left In: -7947.160 $\pm$ 41.726 χ^2/NDF : 23874.5/22

Left: -5268.670 $\pm$ 28.678 χ^2/NDF : 78105.0/47

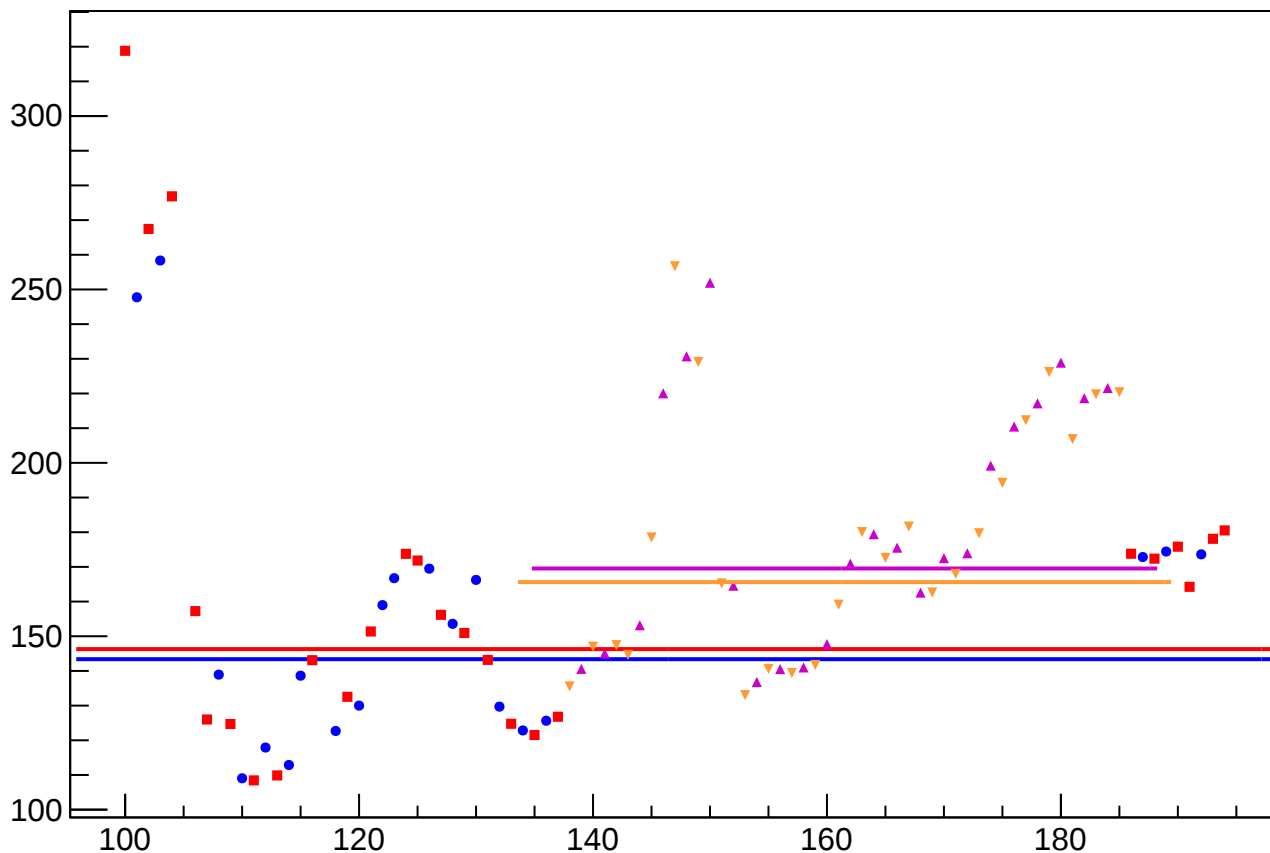
Right: 4976.622 $\pm$ 34.845 χ^2/NDF : 144058.1/44

In: -3182.920 $\pm$ 32.582 χ^2/NDF : 108706.3/42

Out: 629.623 $\pm$ 30.186 χ^2/NDF : 157627.8/49

All: -1131.302 $\pm$ 22.143 χ^2/NDF : 273702.1/9

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 143.389 $\pm$ 0.037 χ^2/NDF : 775869.4/19

Left Out: 165.616 $\pm$ 0.028 χ^2/NDF :1144779.3/24

Right Out: 146.300 $\pm$ 0.033 χ^2/NDF : 1004390.2/24

Left In: 169.542 $\pm$ 0.030 χ^2/NDF :1159241.9/22

Left: 167.471 $\pm$ 0.020 χ^2/NDF : 2313359.6/47

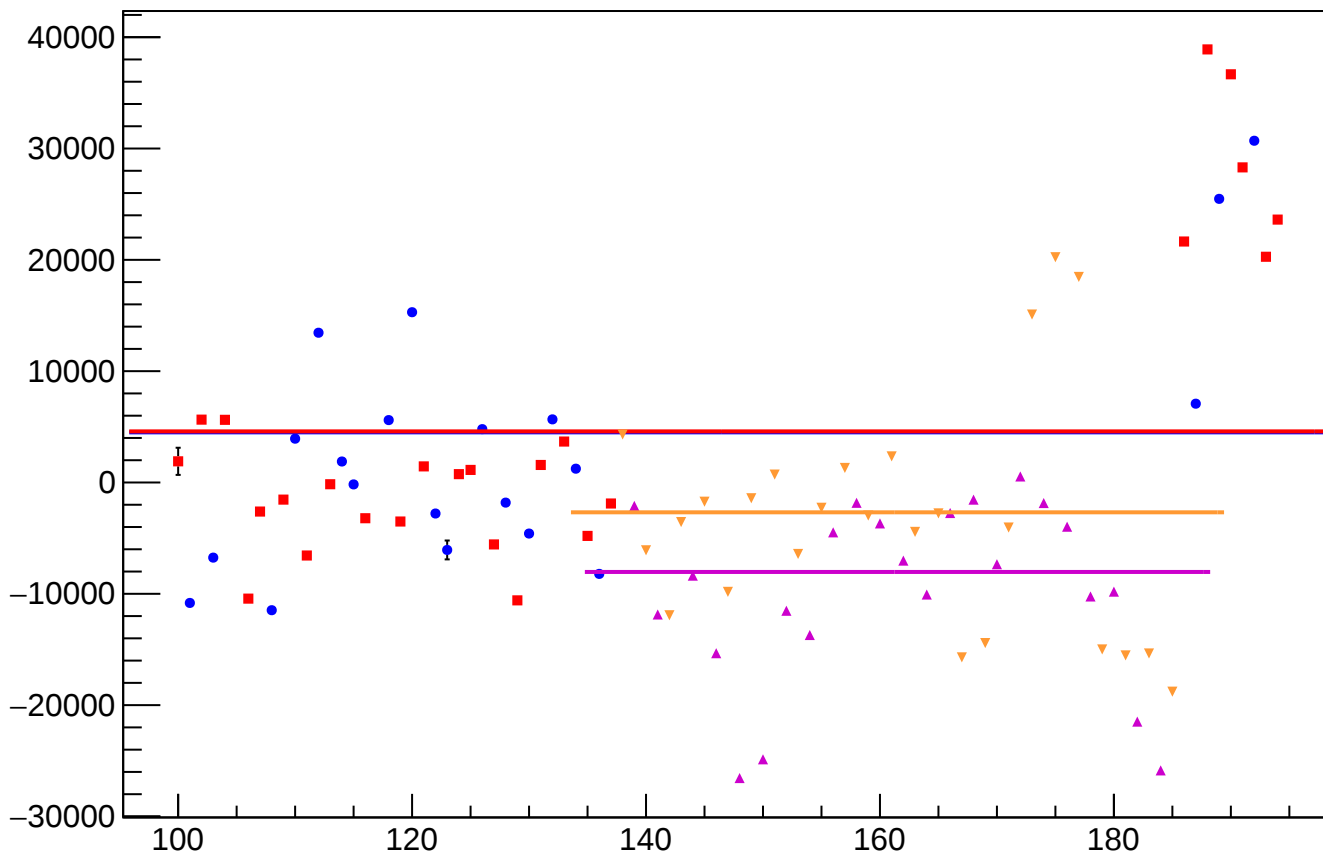
Right: 145.001 $\pm$ 0.025 χ^2/NDF : 1783709.4/44

In: 159.335 $\pm$ 0.023 χ^2/NDF :2241733.8/42

Out: 157.591 $\pm$ 0.021 χ^2/NDF :2348065.5/49

All: 158.397 $\pm$ 0.016 χ^2/NDF : 4592885.0/92

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 4503.210+/-43.588 χ^2/NDF : 71478.9/19

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: 4590.736+/-38.944 χ^2/NDF : 128043.2/24

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

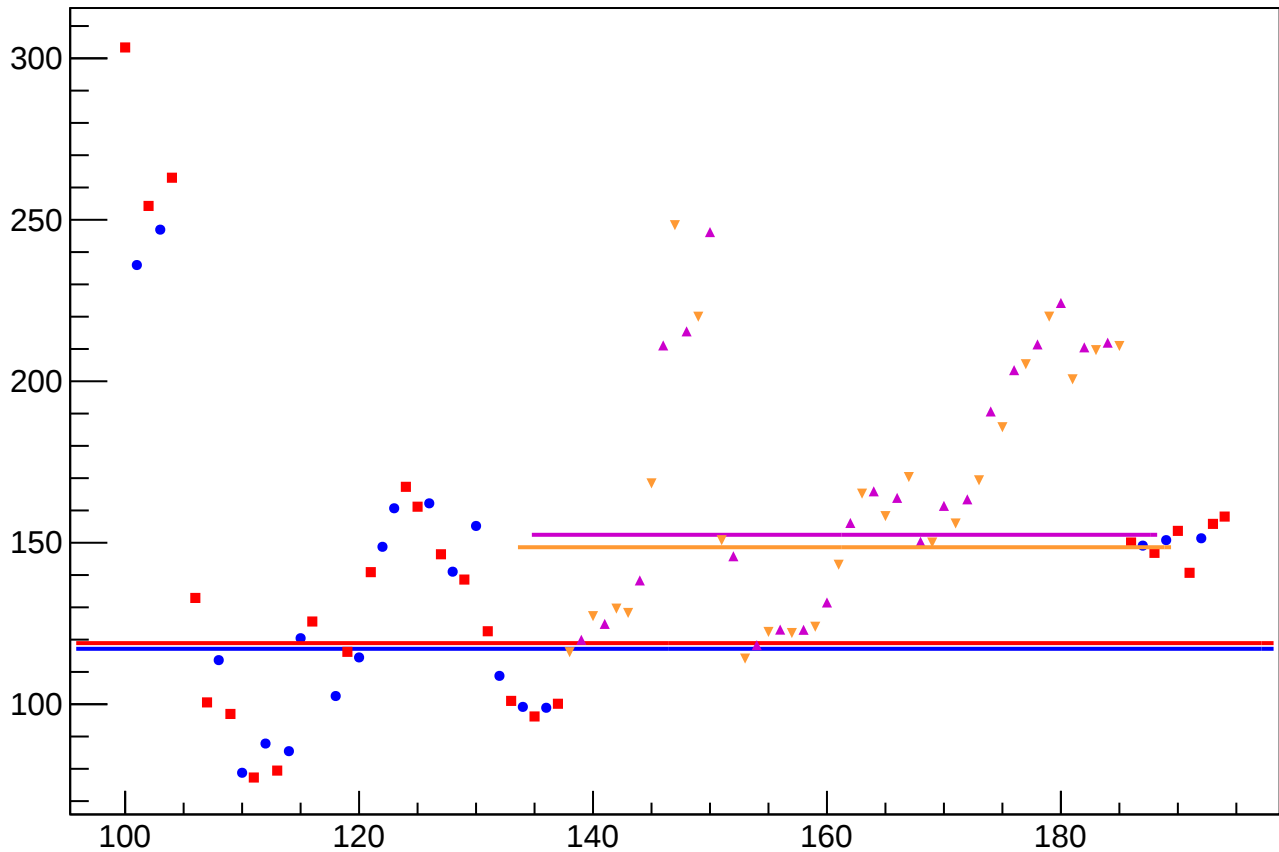
Right: 4551.882+/-29.041 χ^2/NDF : 199524.3/44

In: -2633.867+/-28.611 χ^2/NDF : 147848.3/42

Out: 646.435+/-26.341 χ^2/NDF : 203772.9/49

All: -858.472+/-19.379 χ^2/NDF : 358735.9/92

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 117.160 $\pm$ 0.031 χ^2 /NDF: 1298551.4/19

Left Out: 148.611 $\pm$ 0.025 χ^2 /NDF: 1685424.1/24

Right Out: 118.919 $\pm$ 0.028 χ^2 /NDF: 1685686.1/24

Left In: 152.463 $\pm$ 0.027 χ^2 /NDF: 1691517.7/22

Left: 150.424 $\pm$ 0.018 χ^2 /NDF: 3387867.0/47

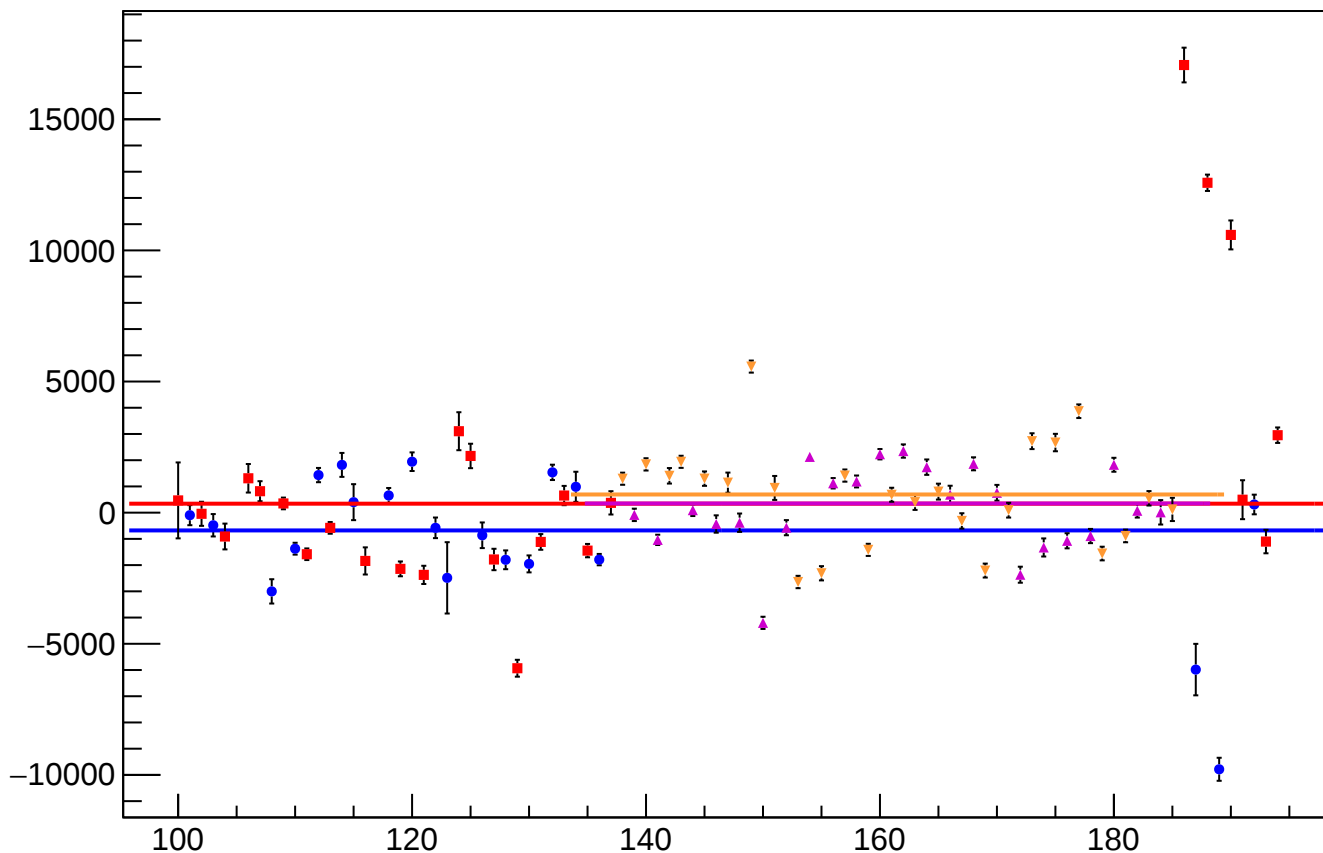
Right: 118.138 $\pm$ 0.021 χ^2 /NDF: 2986049.5/44

In: 137.253 $\pm$ 0.020 χ^2 /NDF: 3736805.5/42

Out: 135.026 $\pm$ 0.019 χ^2 /NDF: 4001803.4/49

All: 136.048 $\pm$ 0.014 χ^2 /NDF: 7745162.1/92

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -677.659 ± 80.317 χ^2/NDF : 791.9/19

Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24

Right Out: 341.970 ± 70.713 χ^2/NDF : 3384.0/24

Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47

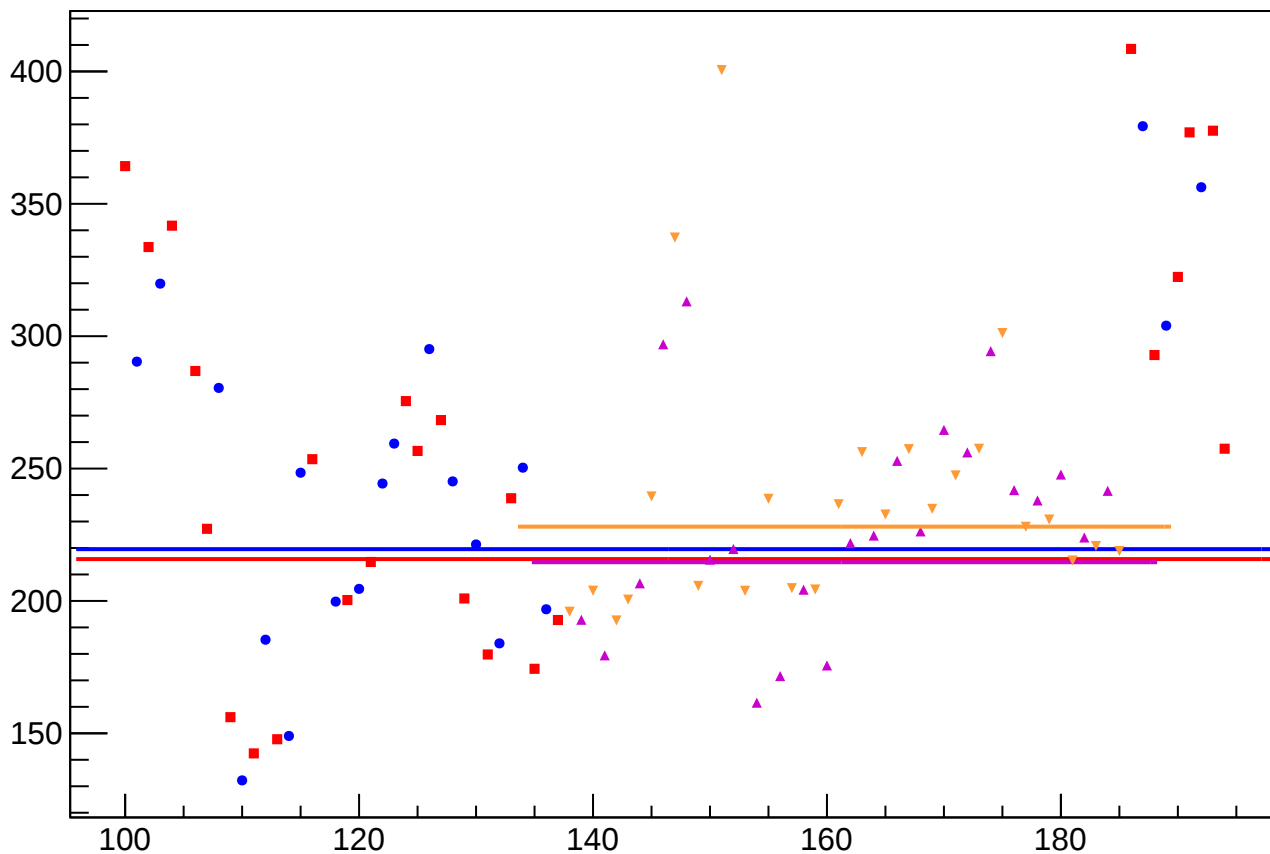
Right: -103.265 ± 53.074 χ^2/NDF : 4266.7/44

In: 37.223 ± 44.291 χ^2/NDF : 1886.7/42

Out: 562.779 ± 43.069 χ^2/NDF : 4821.5/49

All: 307.353 ± 30.877 χ^2/NDF : 6780.6/92

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.564 ± 0.057 $\chi^2/\text{NDF}: 1125210.3/19$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 215.808 ± 0.050 $\chi^2/\text{NDF}: 1808833.6/24$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

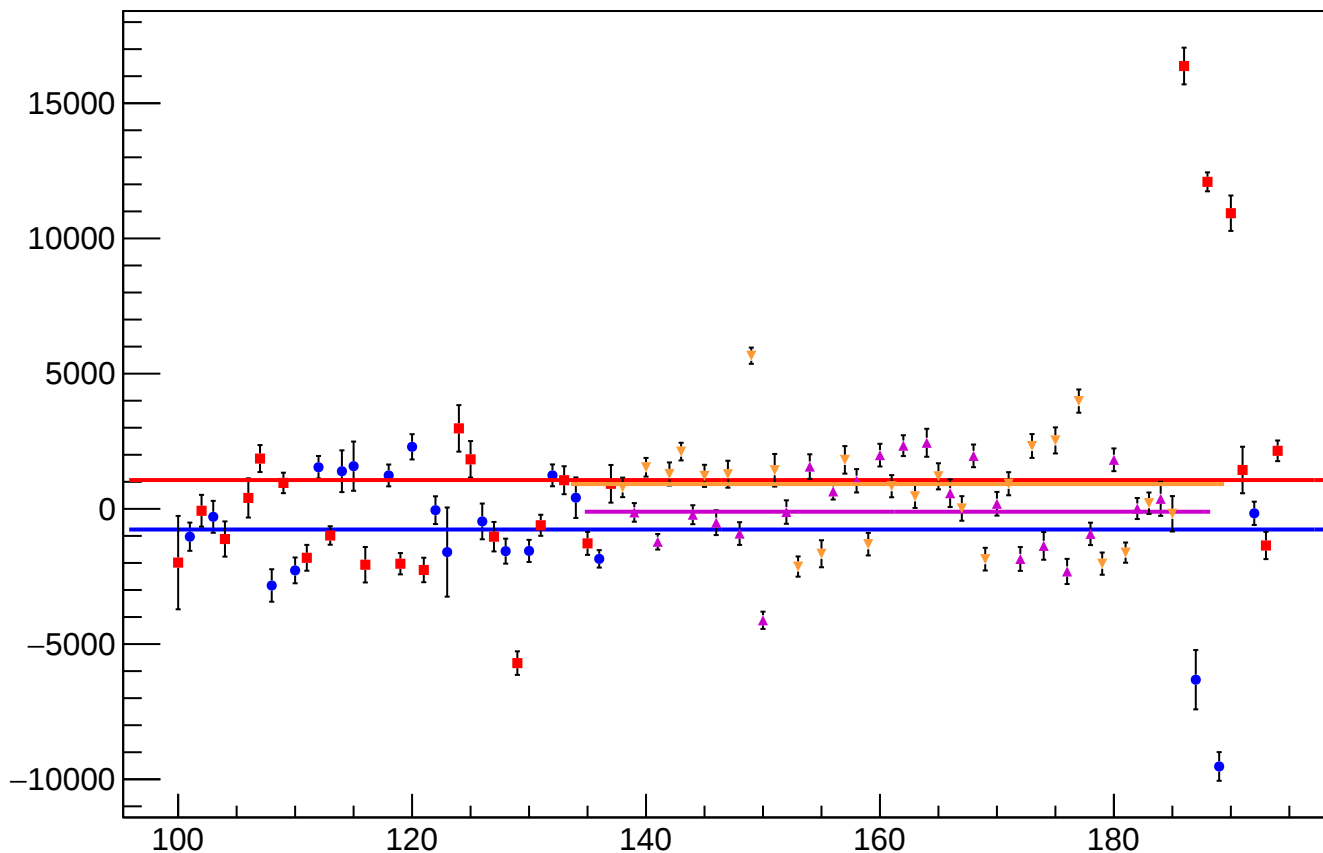
Right: 217.448 ± 0.038 $\chi^2/\text{NDF}: 2936507.1/44$

In: 216.128 ± 0.031 $\chi^2/\text{NDF}: 2156151.4/42$

Out: 223.515 ± 0.030 $\chi^2/\text{NDF}: 2672949.7/49$

All: 219.925 ± 0.022 $\chi^2/\text{NDF}: 4857697.8/92$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -763.693+/-113.637 χ^2/NDF : 482.9/19

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 1065.022+/-100.013 χ^2/NDF : 2300.9/24

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

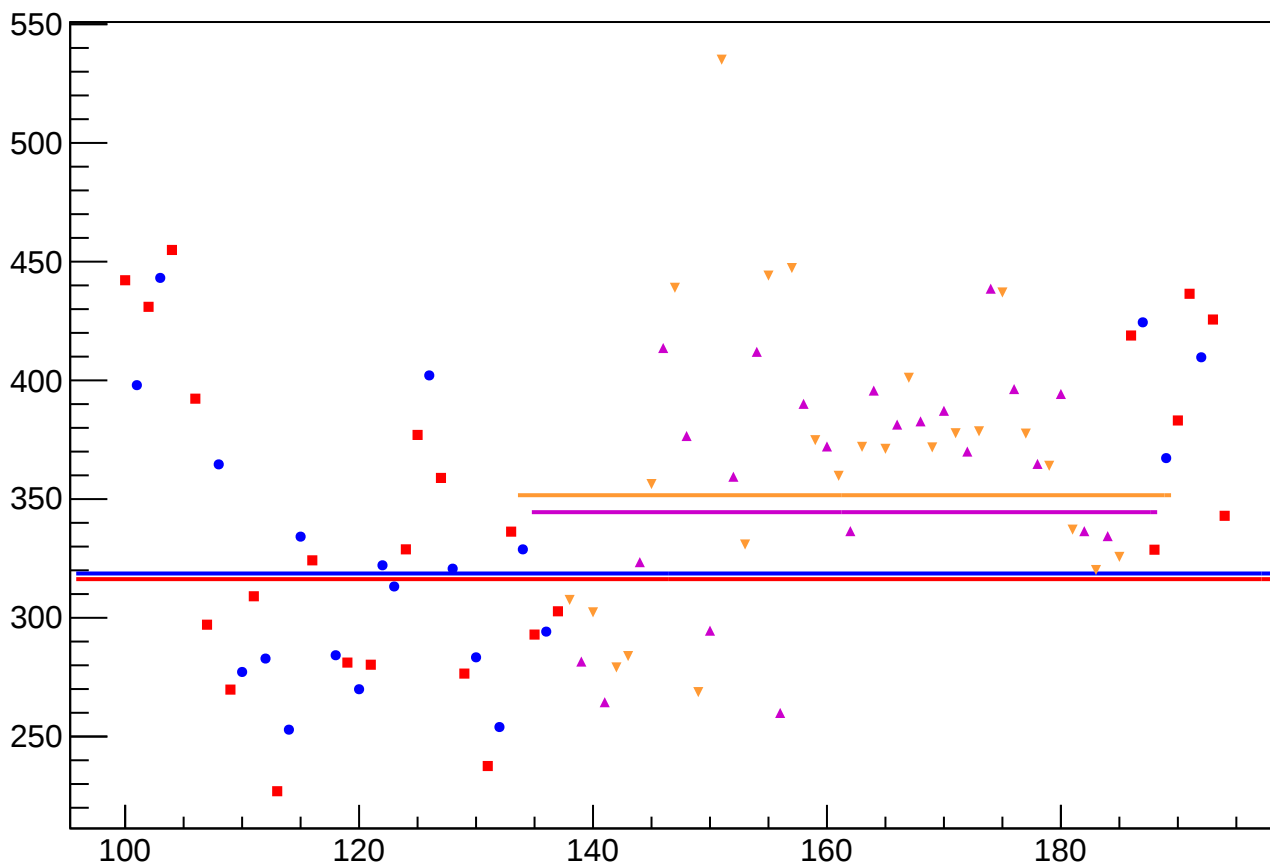
Right: 266.806+/-75.077 χ^2/NDF : 2929.7/44

In: -339.871+/-67.752 χ^2/NDF : 894.7/42

Out: 977.103+/-64.051 χ^2/NDF : 2920.5/49

All: 355.570+/-46.545 χ^2/NDF : 4014.7/92

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 318.665 ± 0.080 χ^2/NDF : 462899.9/19

Left Out: 351.633 ± 0.059 χ^2/NDF : 907849.3/24

Right Out: 316.288 ± 0.071 χ^2/NDF : 747645.7/24

Left In: 344.491 ± 0.060 χ^2/NDF : 768885.4/22

Left: 348.104 ± 0.042 χ^2/NDF : 1683981.7/47

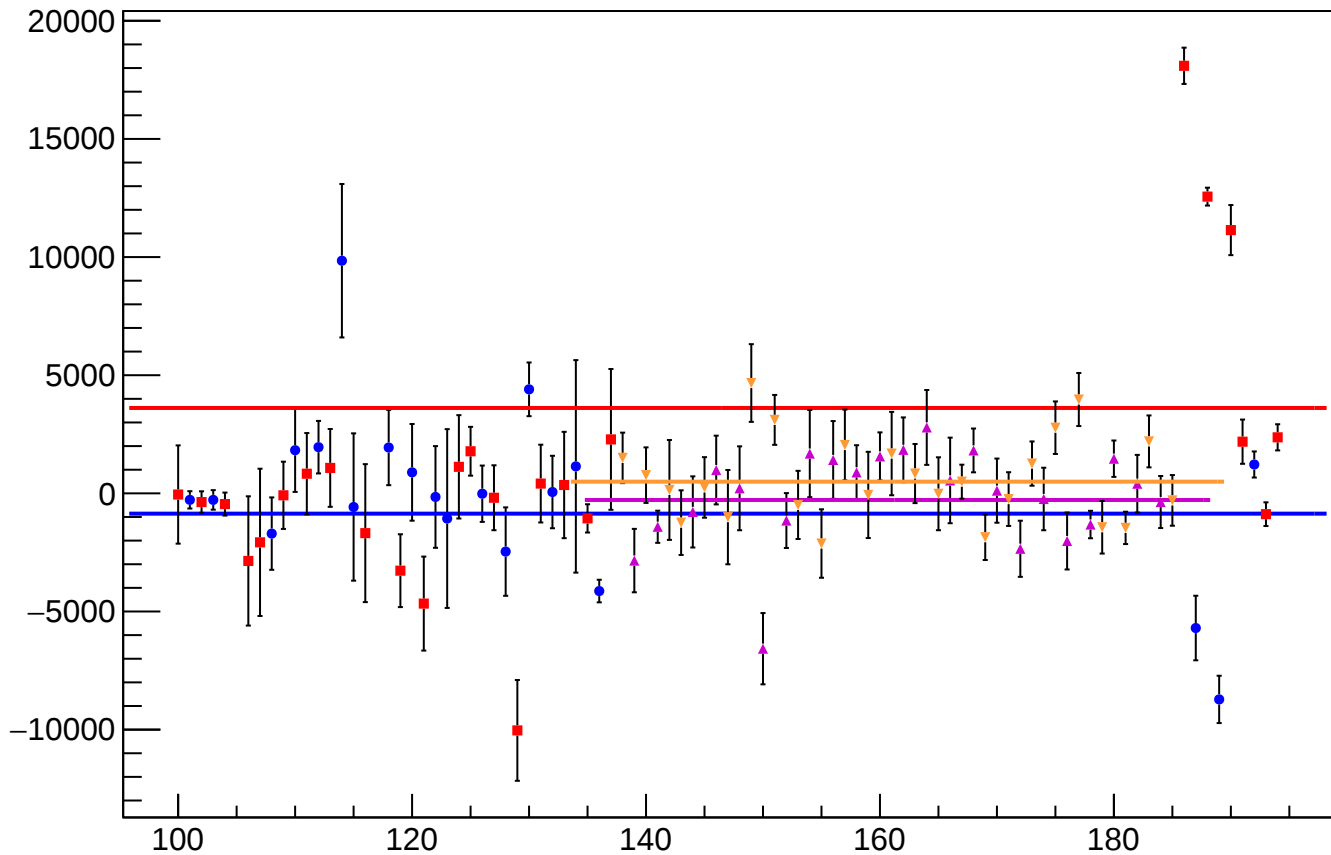
Right: 317.325 ± 0.053 χ^2/NDF : 1211039.0/44

In: 335.310 ± 0.048 χ^2/NDF : 1298364.0/42

Out: 337.136 ± 0.045 χ^2/NDF : 1802837.1/49

All: 336.274 ± 0.033 χ^2/NDF : 3101967.9/92

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -859.142 $\pm$ 191.107 χ^2/NDF : 186.8/19

Left Out: 495.014 $\pm$ 231.058 χ^2/NDF : 56.2/24

Right Out: 3613.665 $\pm$ 169.421 χ^2/NDF : 1384.8/24

Left In: -280.692 $\pm$ 232.048 χ^2/NDF : 57.2/22

Left: 108.818 $\pm$ 163.732 χ^2/NDF : 119.1/47

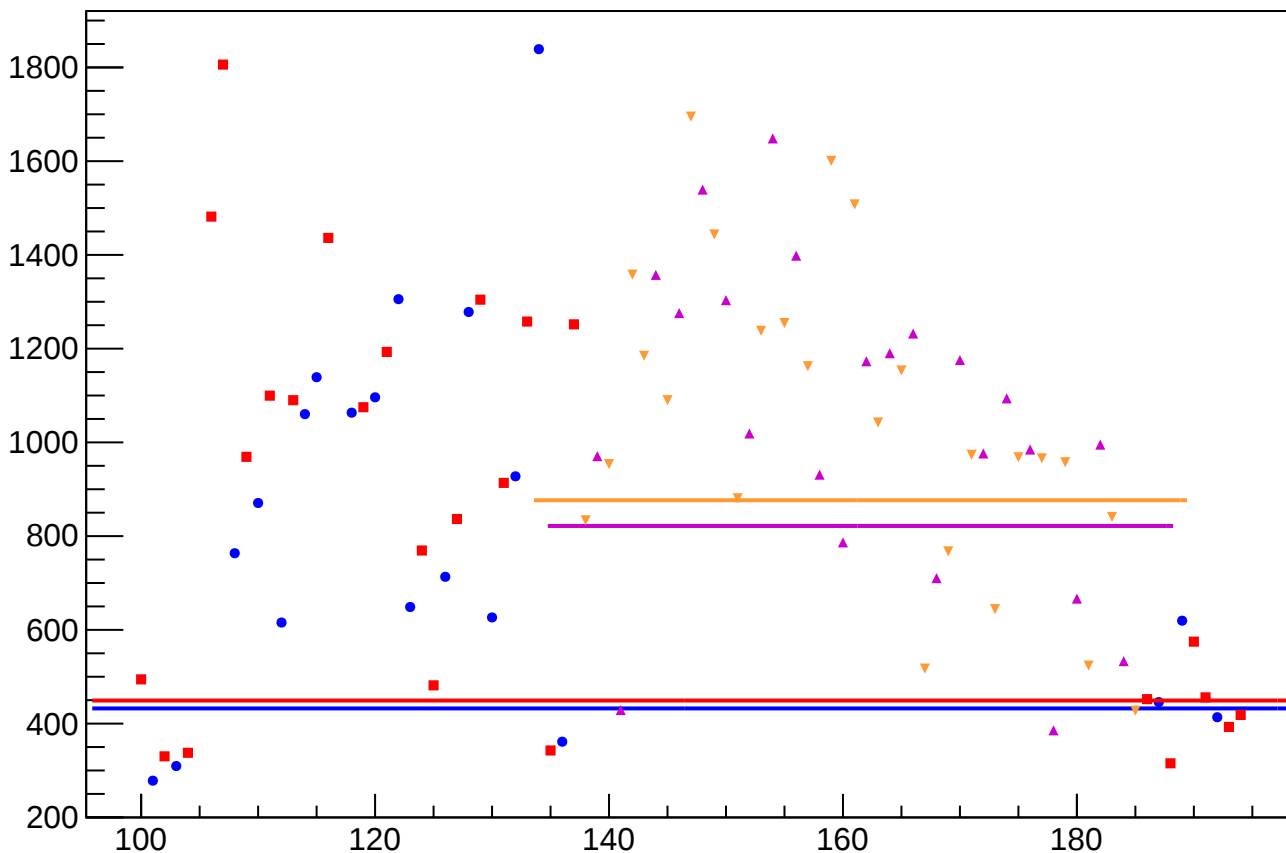
Right: 1645.334 $\pm$ 126.776 χ^2/NDF : 1878.3/44

In: -625.363 $\pm$ 147.519 χ^2/NDF : 247.8/42

Out: 2523.217 $\pm$ 136.628 χ^2/NDF : 1559.5/49

All: 1069.425 $\pm$ 100.240 χ^2/NDF : 2052.4/92

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 432.388 $\pm$ 0.135 χ^2/NDF : 2936981.8/19

Left Out: 876.560 $\pm$ 0.163 χ^2/NDF : 3434698.7/24

Right Out: 449.229 $\pm$ 0.120 χ^2/NDF : 4061971.4/24

Left In: 821.657 $\pm$ 0.164 χ^2/NDF : 4443094.2/22

Left: 849.226 $\pm$ 0.116 χ^2/NDF : 7934012.4/47

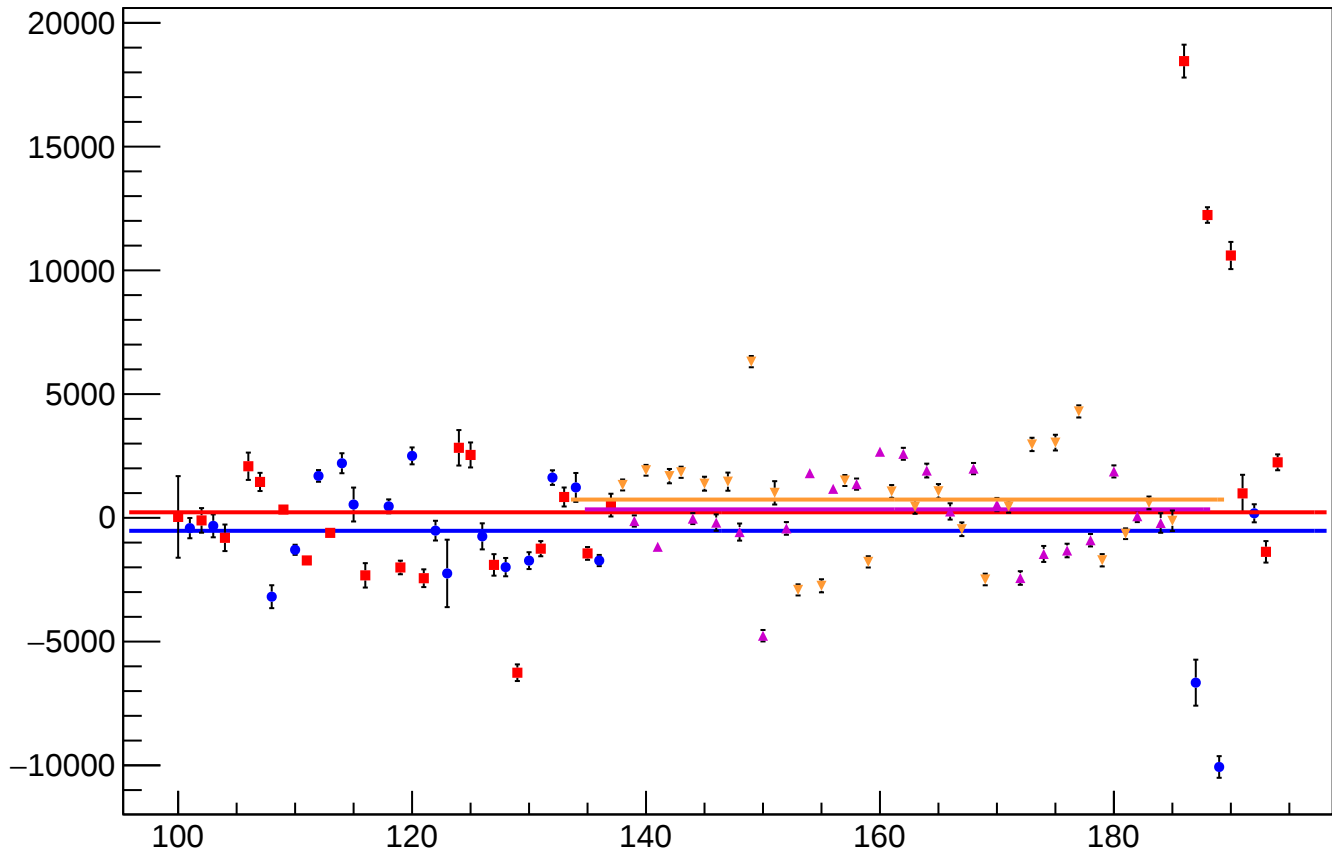
Right: 441.818 $\pm$ 0.090 χ^2/NDF : 7007650.2/44

In: 589.710 $\pm$ 0.104 χ^2/NDF : 10733709.6/42

Out: 598.647 $\pm$ 0.097 χ^2/NDF : 11945649.3/49

All: 594.521 $\pm$ 0.071 χ^2/NDF : 22683310.1/92

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -524.189+/-78.896 χ^2/NDF : 917.5/19

Left Out: 738.847+/-51.649 χ^2/NDF :1935.2/24

Right Out: 224.264+/-69.057 χ^2/NDF : 3399.5/24

Left In: 342.465+/-50.044 χ^2/NDF :1254.9/22

Left: 534.403+/-35.941 χ^2/NDF : 3220.5/47

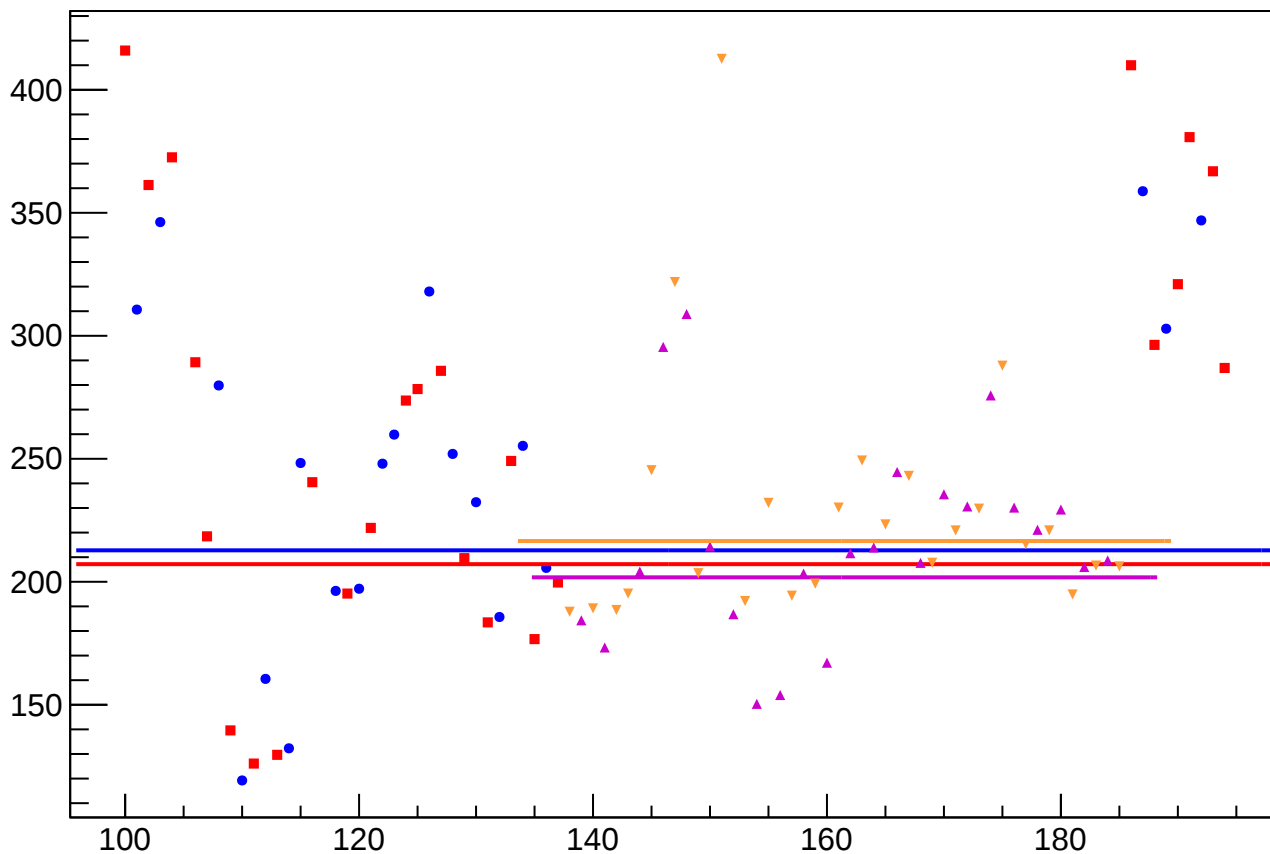
Right: -100.409+/-51.963 χ^2/NDF : 4367.9/44

In: 93.815+/-42.260 χ^2/NDF :2258.4/42

Out: 554.256+/-41.361 χ^2/NDF :5370.3/49

All: 328.987+/-29.559 χ^2/NDF : 7689.4/92

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 212.789 ± 0.056 χ^2/NDF : 1493478.7/19

Left Out: 216.574 ± 0.037 χ^2/NDF : 886214.1/24

Right Out: 207.167 ± 0.049 χ^2/NDF : 2472087.4/24

Left In: 201.805 ± 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 ± 0.025 χ^2/NDF : 2057801.5/47

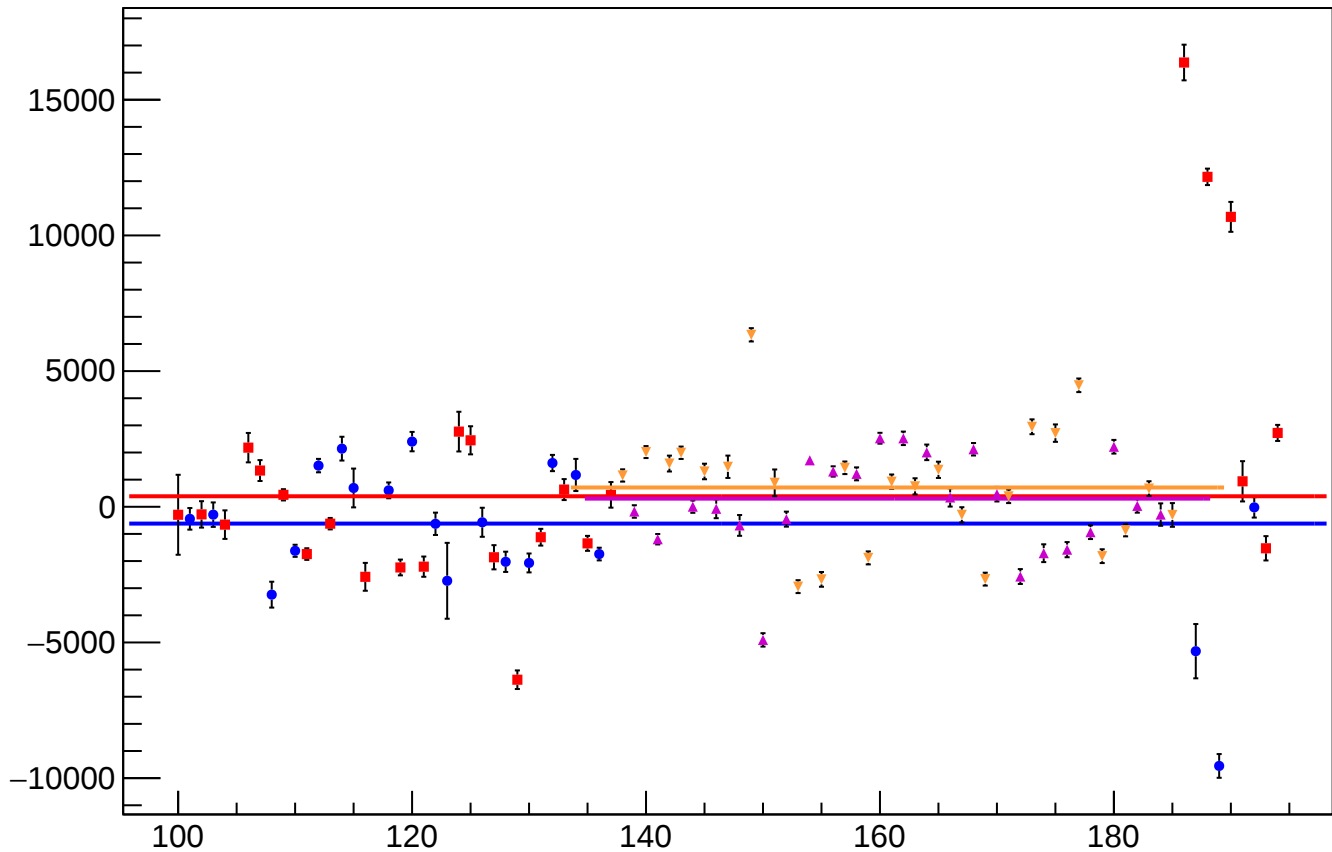
Right: 209.606 ± 0.037 χ^2/NDF : 3971316.9/44

In: 204.957 ± 0.030 χ^2/NDF : 2608364.7/42

Out: 213.200 ± 0.029 χ^2/NDF : 3382101.4/49

All: 209.167 ± 0.021 χ^2/NDF : 6029329.5/92

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -619.222 ± 81.745 $\chi^2/\text{NDF}: 820.7/19$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: 387.426 ± 71.182 $\chi^2/\text{NDF}: 3337.6/24$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

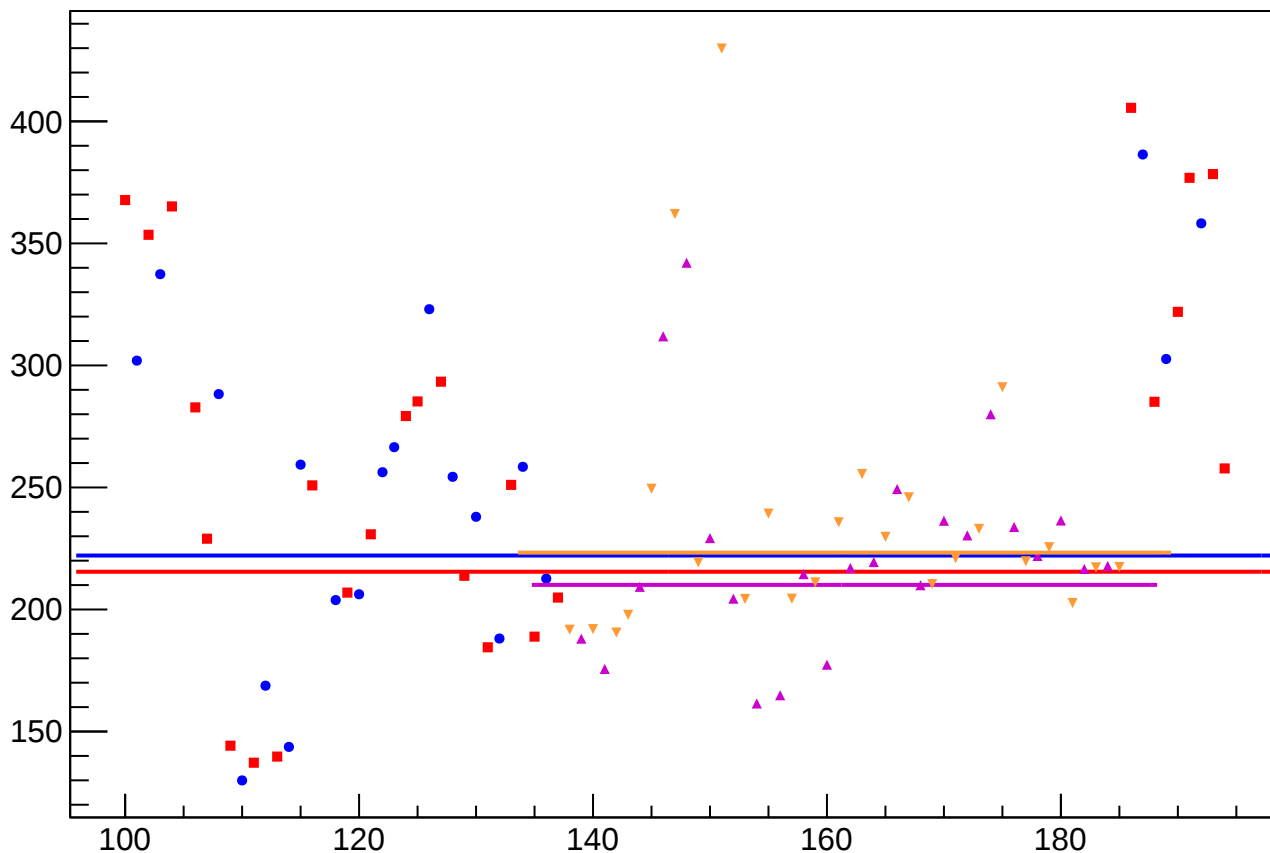
Right: -46.699 ± 53.682 $\chi^2/\text{NDF}: 4244.6/44$

In: 35.673 ± 43.865 $\chi^2/\text{NDF}: 2119.4/42$

Out: 595.021 ± 42.637 $\chi^2/\text{NDF}: 5186.2/49$

All: 323.291 ± 30.574 $\chi^2/\text{NDF}: 7389.2/92$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 222.112 ± 0.058 $\chi^2/\text{NDF}: 1290819.2/19$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 215.476 ± 0.050 $\chi^2/\text{NDF}: 2069361.8/24$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

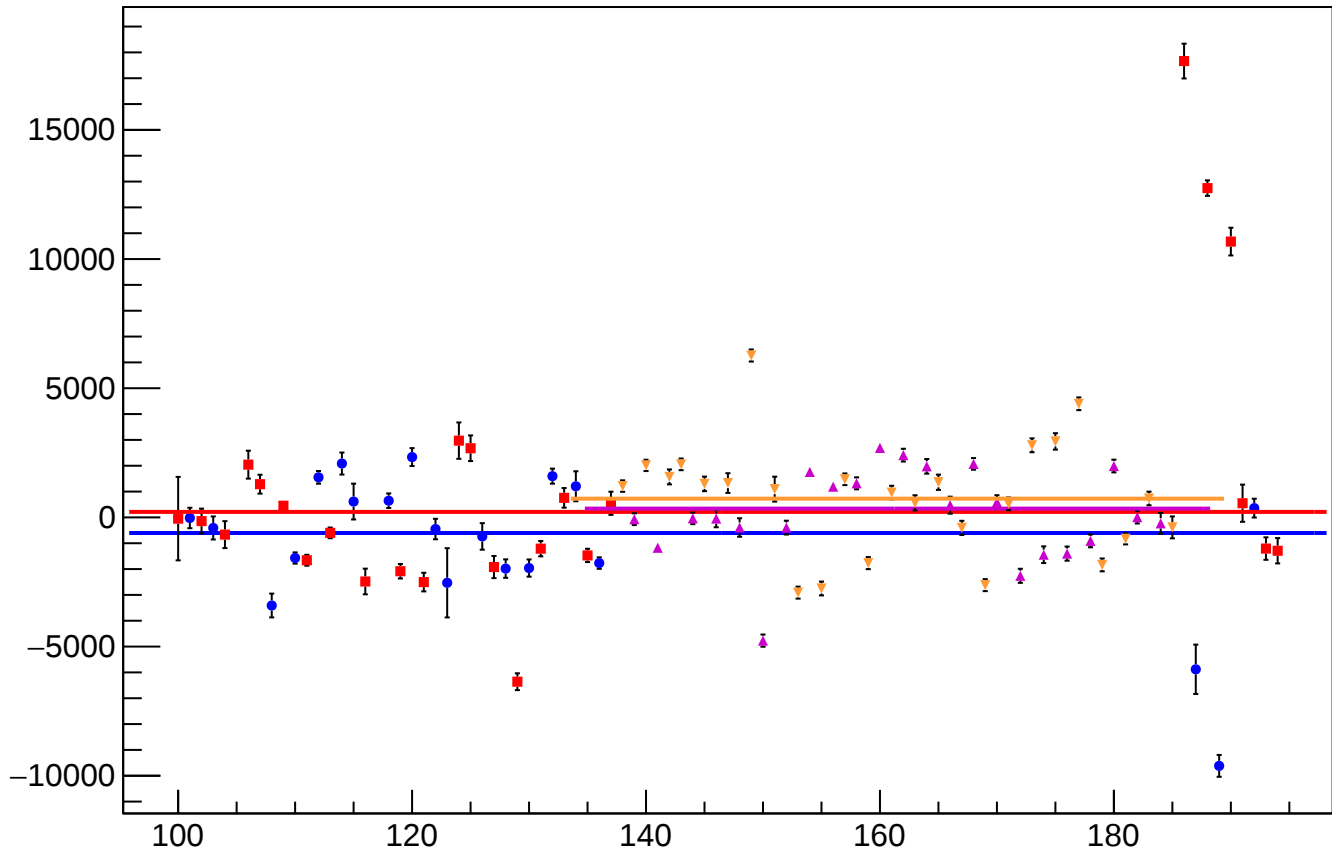
Right: 218.338 ± 0.038 $\chi^2/\text{NDF}: 3367678.2/44$

In: 213.545 ± 0.031 $\chi^2/\text{NDF}: 2336947.1/42$

Out: 220.490 ± 0.030 $\chi^2/\text{NDF}: 3007611.0/49$

All: 217.116 ± 0.022 $\chi^2/\text{NDF}: 5370342.9/92$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -603.410 ± 79.199 χ^2/NDF : 891.6/19

Left Out: 725.866 ± 52.158 χ^2/NDF : 1912.7/24

Right Out: 213.480 ± 70.060 χ^2/NDF : 3631.6/24

Left In: 340.502 ± 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 ± 36.393 χ^2/NDF : 3142.6/47

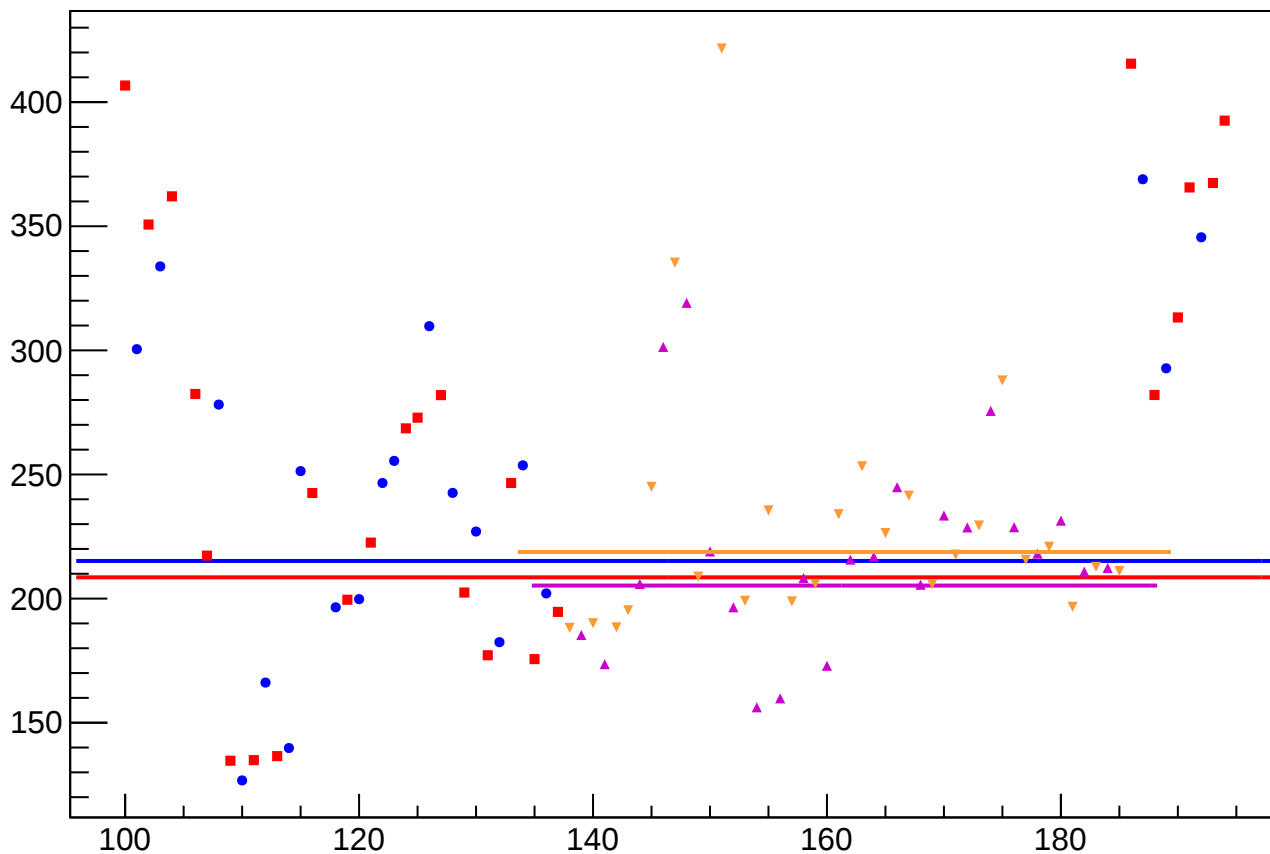
Right: -145.133 ± 52.475 χ^2/NDF : 4582.9/44

In: 65.339 ± 42.761 χ^2/NDF : 2194.1/42

Out: 543.147 ± 41.837 χ^2/NDF : 5578.8/49

All: 309.461 ± 29.905 χ^2/NDF : 7836.6/92

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 215.161 $\pm$ 0.056 χ^2/NDF : 1277544.6/19

Left Out: 218.768 $\pm$ 0.037 χ^2/NDF :896914.5/24

Right Out: 208.565 $\pm$ 0.050 χ^2/NDF : 2418842.0/24

Left In: 205.249 $\pm$ 0.036 χ^2/NDF :997168.8/22

Left: 211.831 $\pm$ 0.026 χ^2/NDF : 1963037.5/47

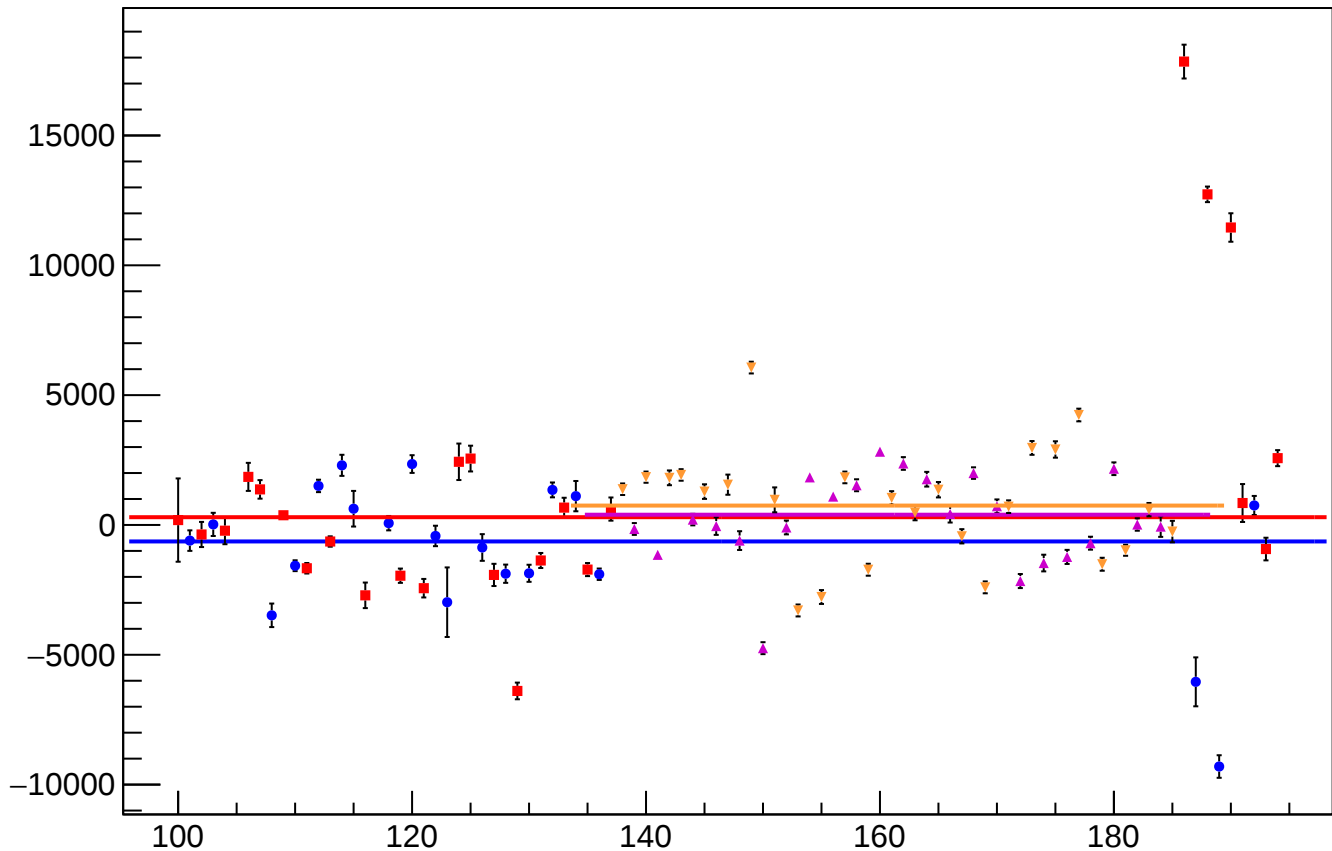
Right: 211.461 $\pm$ 0.037 χ^2/NDF : 3704168.5/44

In: 208.138 $\pm$ 0.030 χ^2/NDF :2296906.8/42

Out: 215.130 $\pm$ 0.030 χ^2/NDF :3343050.4/49

All: 211.710 $\pm$ 0.021 χ^2/NDF : 5667273.2/92

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -635.032 ± 78.005 $\chi^2/\text{NDF}: 845.1/19$

Left Out: 746.405 ± 51.592 $\chi^2/\text{NDF}: 1942.1/24$

Right Out: 298.678 ± 67.759 $\chi^2/\text{NDF}: 3812.3/24$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 565.969 ± 36.020 $\chi^2/\text{NDF}: 3202.4/47$

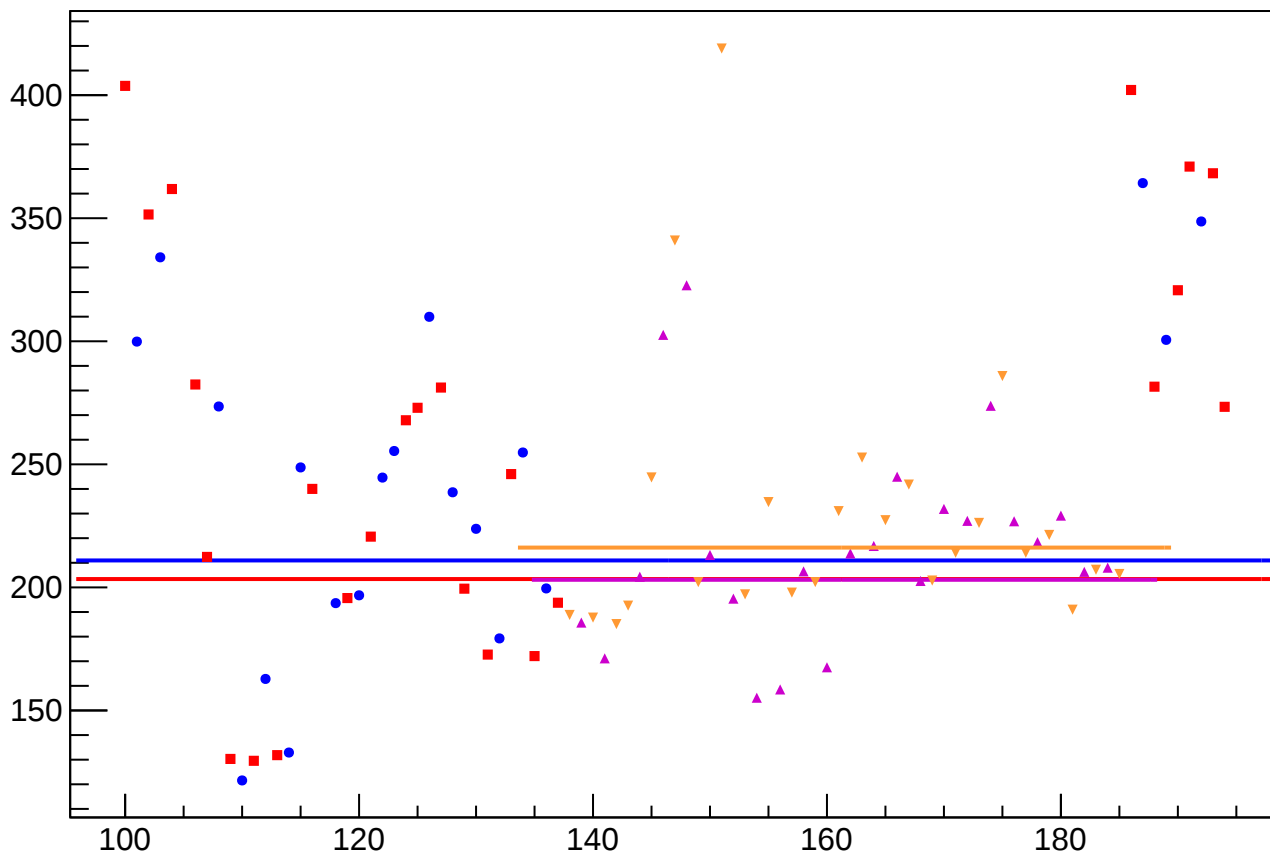
Right: -102.870 ± 51.154 $\chi^2/\text{NDF}: 4739.1/44$

In: 91.956 ± 42.280 $\chi^2/\text{NDF}: 2204.5/42$

Out: 582.098 ± 41.048 $\chi^2/\text{NDF}: 5782.1/49$

All: 344.274 ± 29.451 $\chi^2/\text{NDF}: 8055.8/92$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 210.952 $\pm$ 0.055 χ^2 /NDF: 1397932.1/19

Left Out: 216.178 $\pm$ 0.036 χ^2 /NDF: 946050.8/24

Right Out: 203.393 $\pm$ 0.048 χ^2 /NDF: 2398641.4/24

Left In: 203.101 $\pm$ 0.036 χ^2 /NDF: 1038013.0/22

Left: 209.475 $\pm$ 0.025 χ^2 /NDF: 2049926.5/47

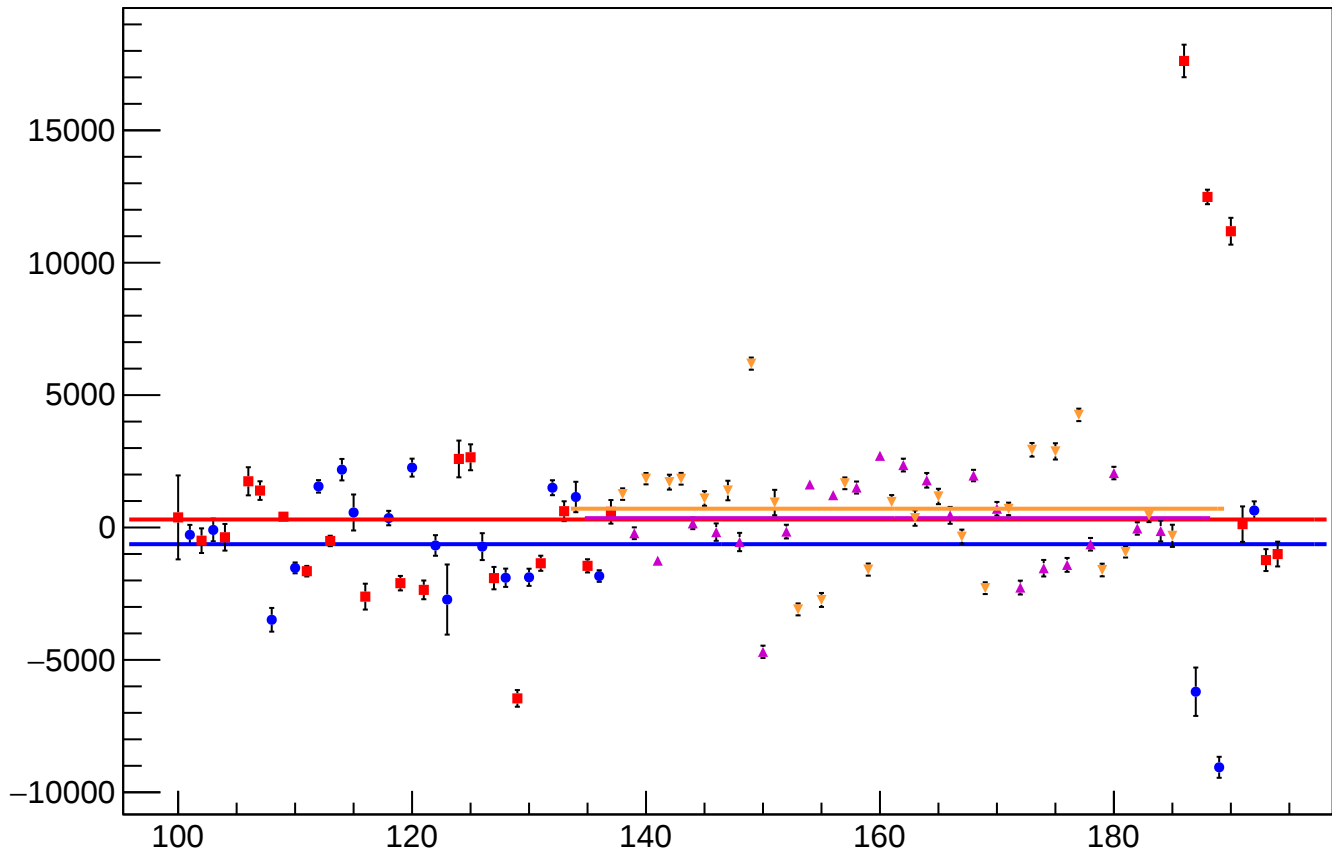
Right: 206.643 $\pm$ 0.036 χ^2 /NDF: 3807277.9/44

In: 205.407 $\pm$ 0.030 χ^2 /NDF: 2450252.9/42

Out: 211.486 $\pm$ 0.029 χ^2 /NDF: 3389766.6/49

All: 208.536 $\pm$ 0.021 χ^2 /NDF: 5861301.1/92

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.898+/-76.520 χ^2/NDF : 914.7/19

Left Out: 710.238+/-50.750 χ^2/NDF :1932.3/24

Right Out: 302.761+/-67.173 χ^2/NDF : 4161.2/24

Left In: 352.432+/-49.316 χ^2/NDF :1233.1/22

Left: 526.207+/-35.368 χ^2/NDF : 3190.9/47

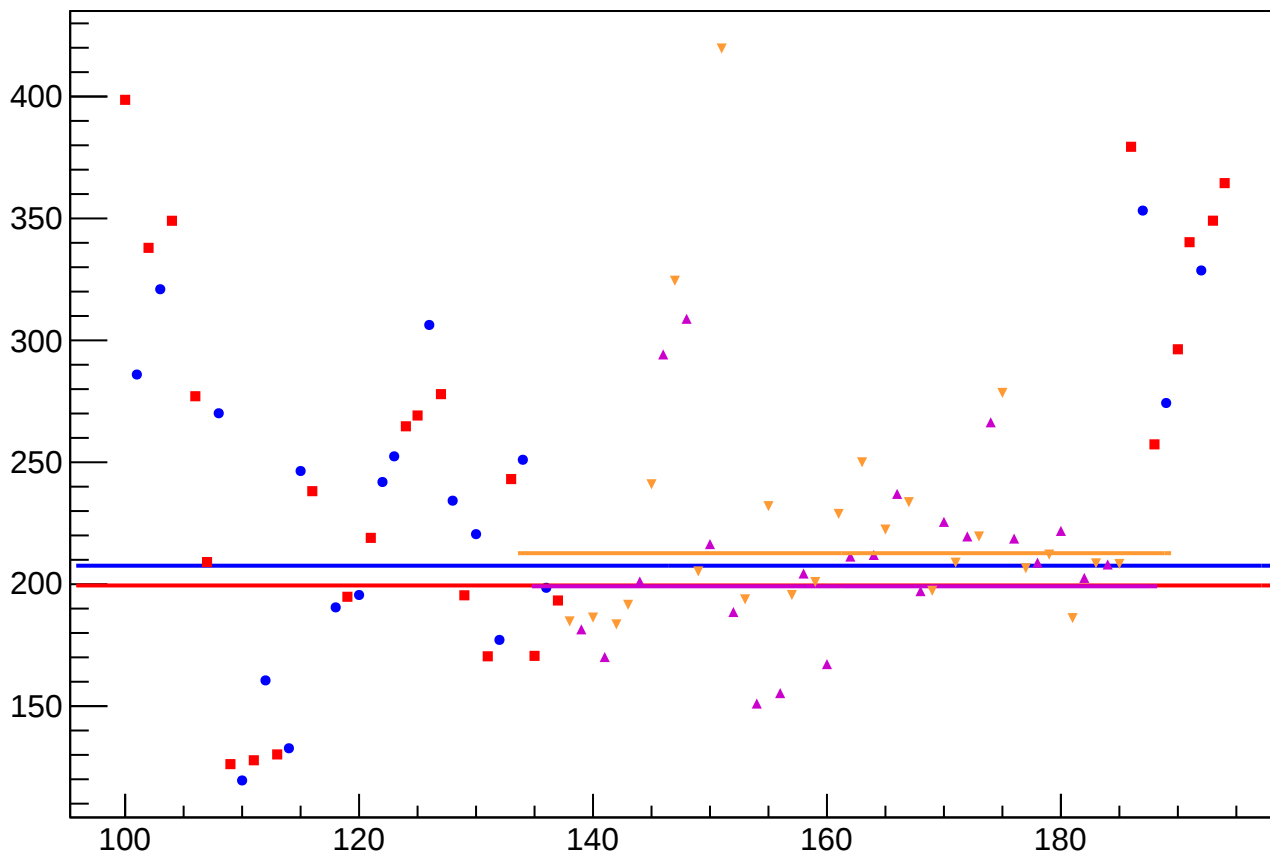
Right: -103.156+/-50.481 χ^2/NDF : 5159.8/44

In: 64.150+/-41.453 χ^2/NDF :2264.2/42

Out: 562.166+/-40.493 χ^2/NDF :6116.9/49

All: 318.991+/-28.966 χ^2/NDF : 8454.9/92

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 207.591 $\pm$ 0.054 χ^2/NDF : 1296145.2/19

Left Out: 212.718 $\pm$ 0.036 χ^2/NDF : 916225.9/24

Right Out: 199.483 $\pm$ 0.047 χ^2/NDF : 2408917.1/24

Left In: 199.142 $\pm$ 0.035 χ^2/NDF : 985932.4/22

Left: 205.736 $\pm$ 0.025 χ^2/NDF : 1975772.3/47

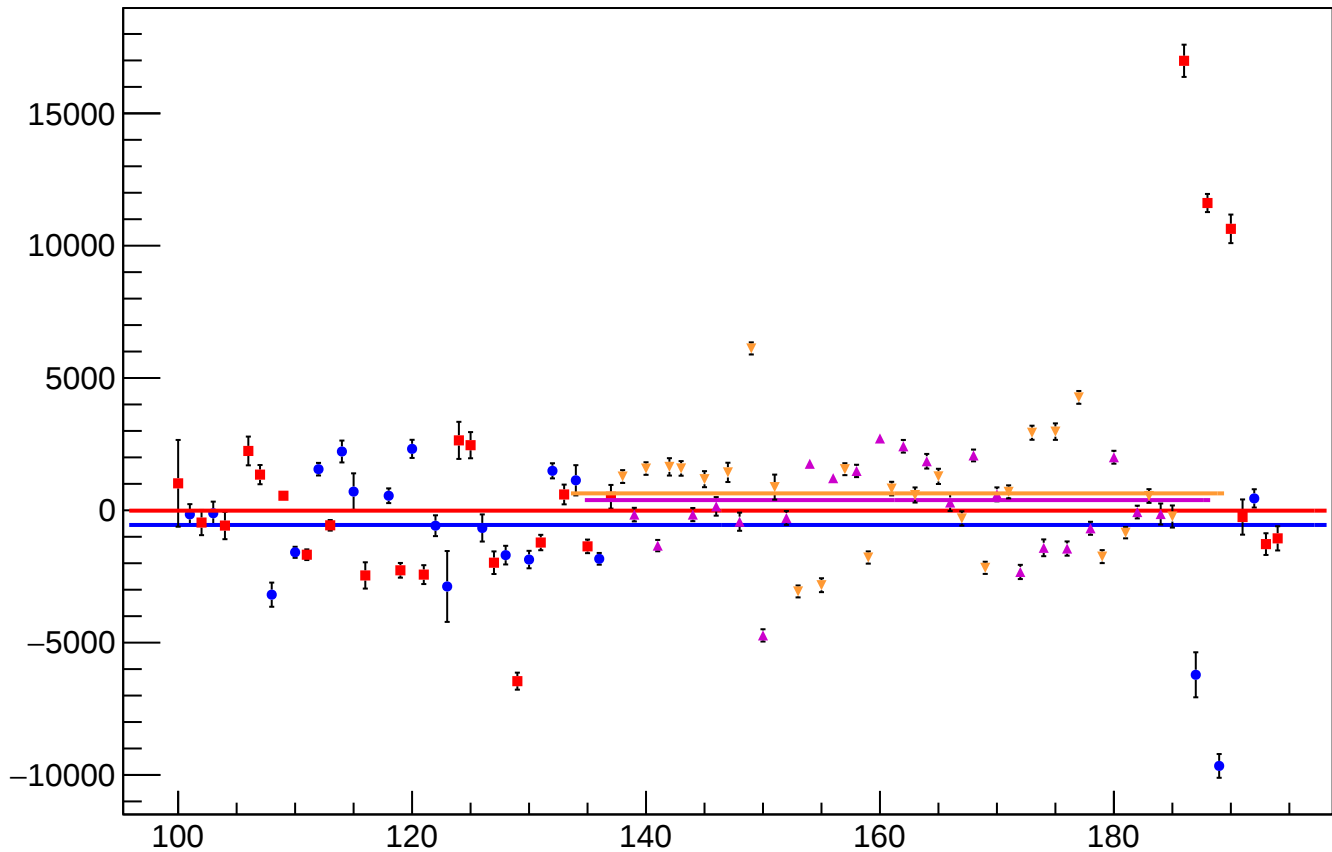
Right: 203.012 $\pm$ 0.036 χ^2/NDF : 3717742.5/44

In: 201.621 $\pm$ 0.029 χ^2/NDF : 2299304.1/42

Out: 207.909 $\pm$ 0.029 χ^2/NDF : 3374571.1/49

All: 204.839 $\pm$ 0.020 χ^2/NDF : 5697420.3/92

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -553.367 ± 77.874 $\chi^2/\text{NDF}: 859.0/19$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: -12.688 ± 69.107 $\chi^2/\text{NDF}: 3095.9/24$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

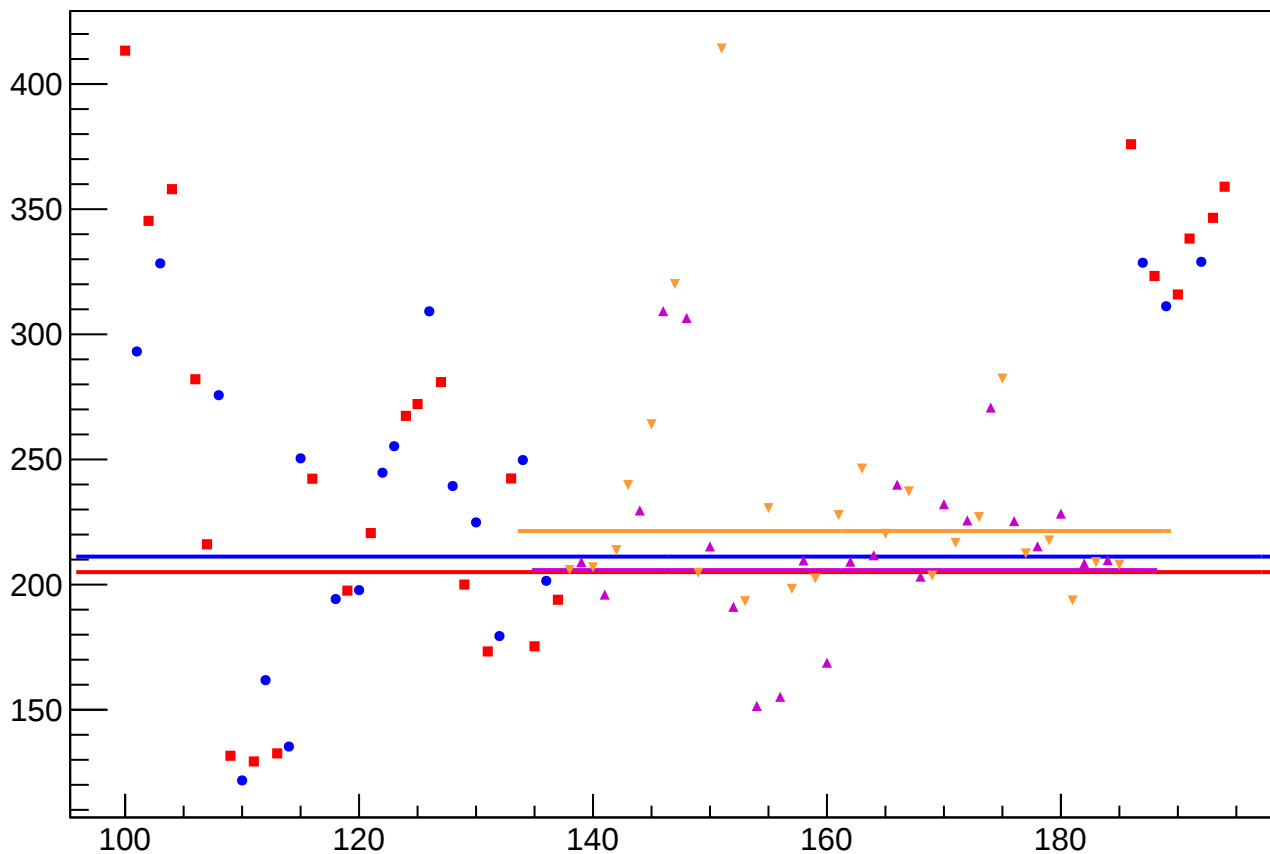
Right: -250.892 ± 51.689 $\chi^2/\text{NDF}: 3981.9/44$

In: 104.263 ± 42.661 $\chi^2/\text{NDF}: 2198.9/42$

Out: 399.953 ± 41.910 $\chi^2/\text{NDF}: 5011.5/49$

All: 254.735 ± 29.897 $\chi^2/\text{NDF}: 7234.9/92$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 211.187 ± 0.055 $\chi^2/\text{NDF}: 1320897.6/19$

Left Out: 221.398 ± 0.037 $\chi^2/\text{NDF}: 777833.8/24$

Right Out: 204.997 ± 0.049 $\chi^2/\text{NDF}: 2492074.4/24$

Left In: 205.803 ± 0.036 $\chi^2/\text{NDF}: 994903.5/22$

Left: 213.343 ± 0.026 $\chi^2/\text{NDF}: 1863169.5/47$

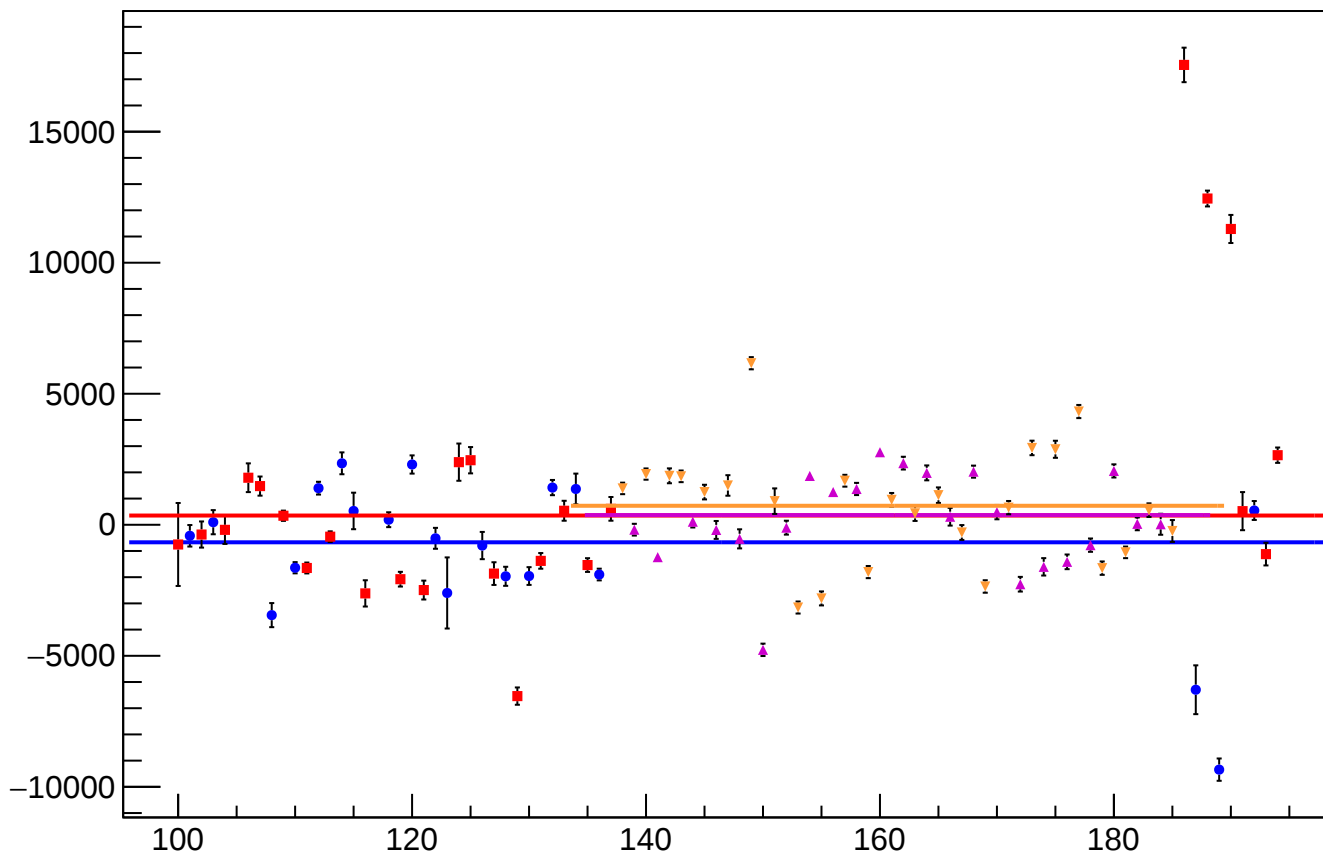
Right: 207.724 ± 0.037 $\chi^2/\text{NDF}: 3820040.8/44$

In: 207.419 ± 0.030 $\chi^2/\text{NDF}: 2322491.8/42$

Out: 215.366 ± 0.030 $\chi^2/\text{NDF}: 3341123.5/49$

All: 211.463 ± 0.021 $\chi^2/\text{NDF}: 5698934.9/92$

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -668.829+/-79.459 χ^2/NDF : 855.7/19

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: 352.539+/-68.989 χ^2/NDF : 3651.2/24

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

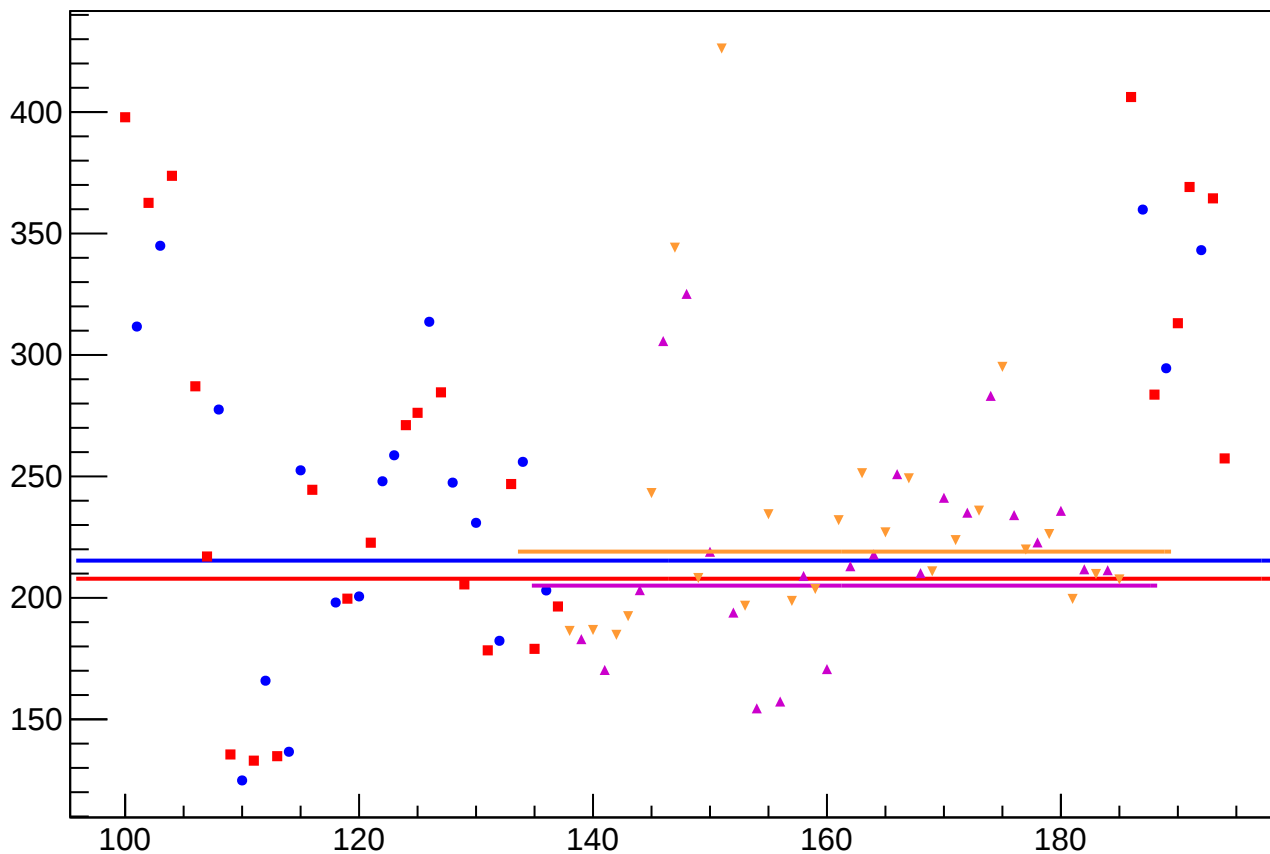
Right: -86.468+/-52.094 χ^2/NDF : 4601.2/44

In: 68.169+/-42.851 χ^2/NDF :2200.2/42

Out: 589.203+/-41.681 χ^2/NDF :5552.9/49

All: 335.894+/-29.878 χ^2/NDF : 7829.0/92

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 215.341 ± 0.056 $\chi^2/\text{NDF}: 1347809.0/19$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 207.884 ± 0.049 $\chi^2/\text{NDF}: 2245177.0/24$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

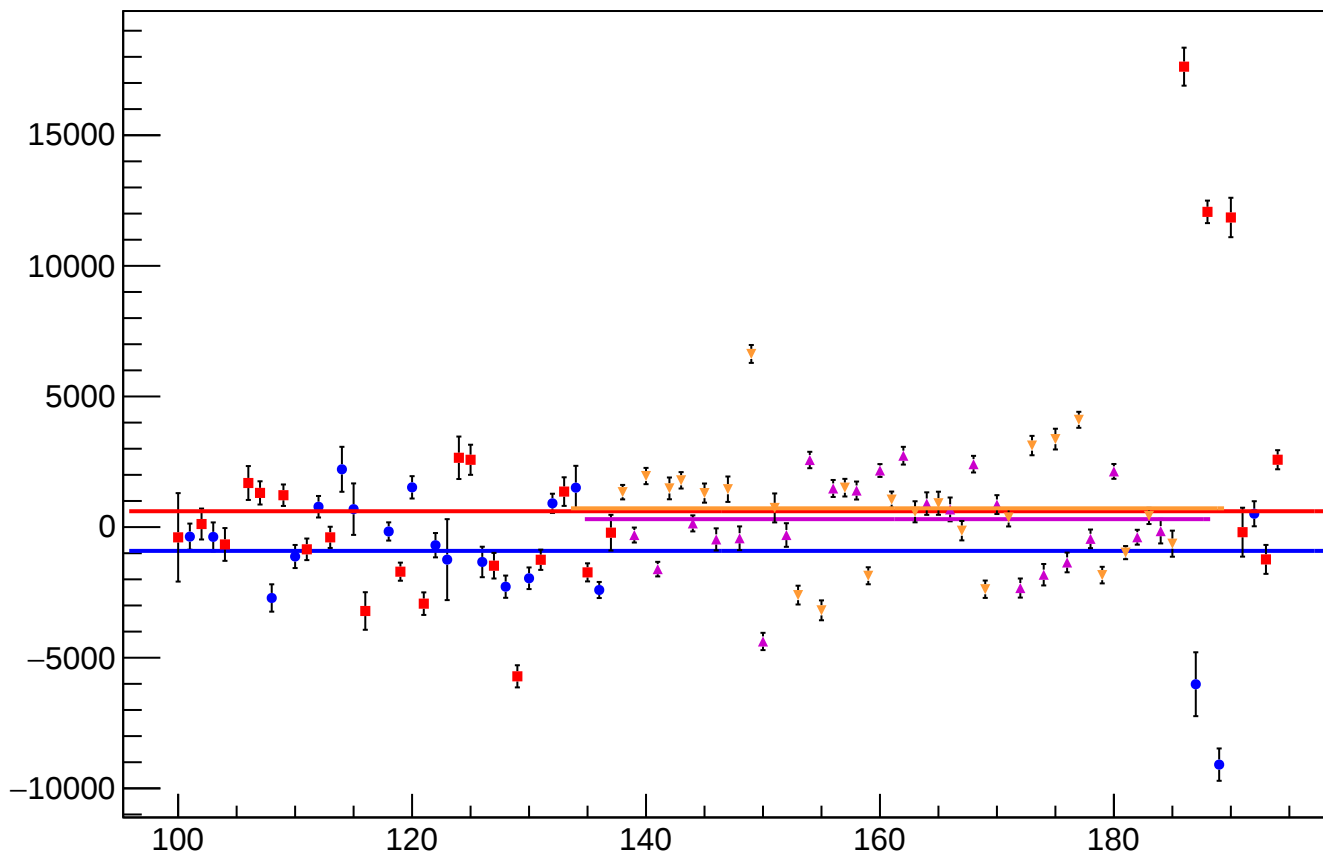
Right: 211.089 ± 0.037 $\chi^2/\text{NDF}: 3603029.5/44$

In: 208.040 ± 0.030 $\chi^2/\text{NDF}: 2515812.4/42$

Out: 214.973 ± 0.029 $\chi^2/\text{NDF}: 3254001.8/49$

All: 211.603 ± 0.021 $\chi^2/\text{NDF}: 5796714.2/92$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -910.563 ± 108.906 χ^2/NDF : 358.8/19

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: 607.263 ± 98.863 χ^2/NDF : 2018.9/24

Left In: 304.161 ± 70.958 χ^2/NDF : 643.5/22

Left: 515.435 ± 49.688 χ^2/NDF : 1679.4/47

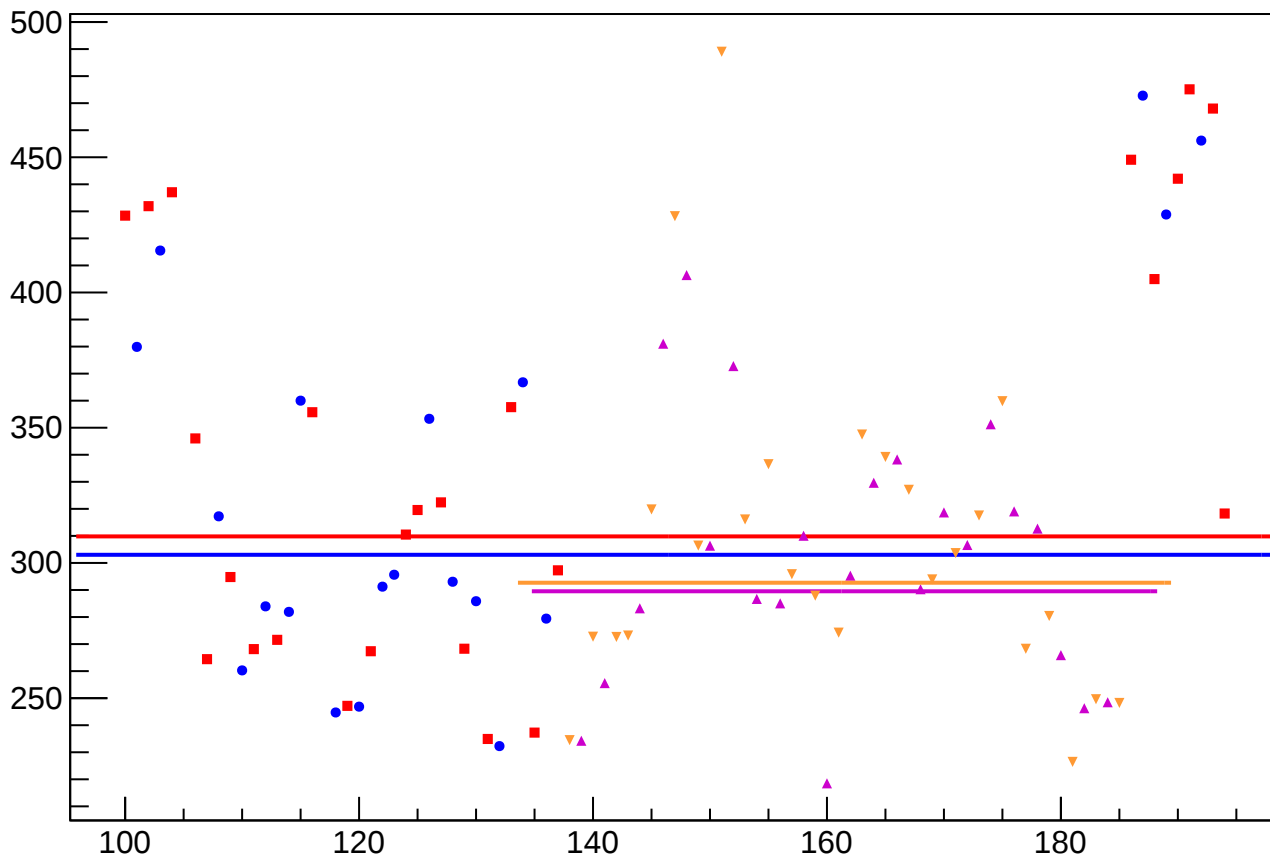
Right: -78.458 ± 73.200 χ^2/NDF : 2484.1/44

In: -57.837 ± 59.452 χ^2/NDF : 1089.6/42

Out: 681.775 ± 56.912 χ^2/NDF : 3038.2/49

All: 328.107 ± 41.111 χ^2/NDF : 4208.6/92

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 303.013 ± 0.077 χ^2/NDF : 695691.5/19

Left Out: 292.686 ± 0.049 χ^2/NDF : 925193.6/24

Right Out: 309.813 ± 0.070 χ^2/NDF : 996419.4/24

Left In: 289.522 ± 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 ± 0.035 χ^2/NDF : 1705121.5/47

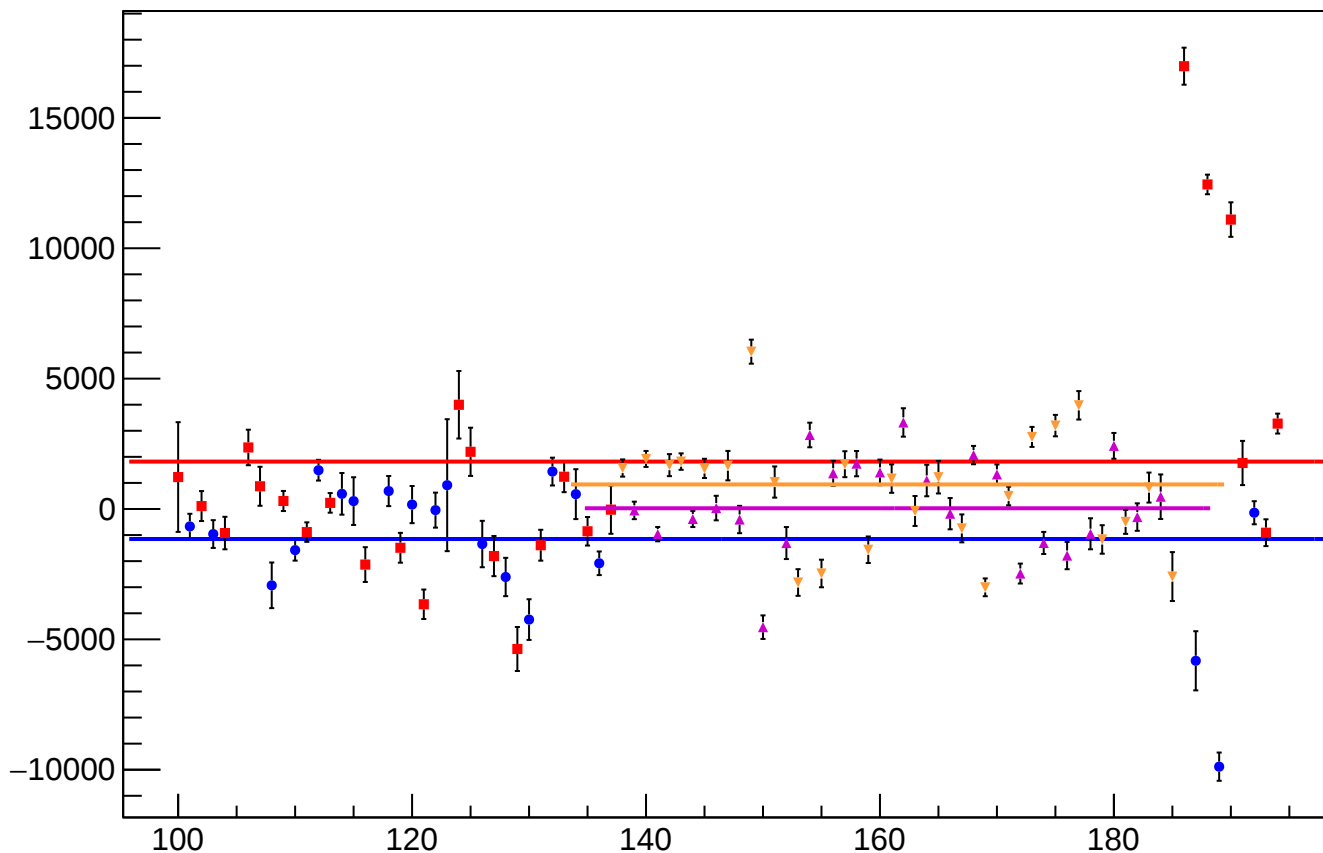
Right: 306.741 ± 0.052 χ^2/NDF : 1696386.5/44

In: 293.542 ± 0.042 χ^2/NDF : 1495137.2/42

Out: 298.362 ± 0.040 χ^2/NDF : 1961747.9/49

All: 296.057 ± 0.029 χ^2/NDF : 3463743.9/92

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -1151.120 ± 134.580 $\chi^2/\text{NDF}: 407.0/19$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1818.005 ± 113.509 $\chi^2/\text{NDF}: 1929.5/24$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

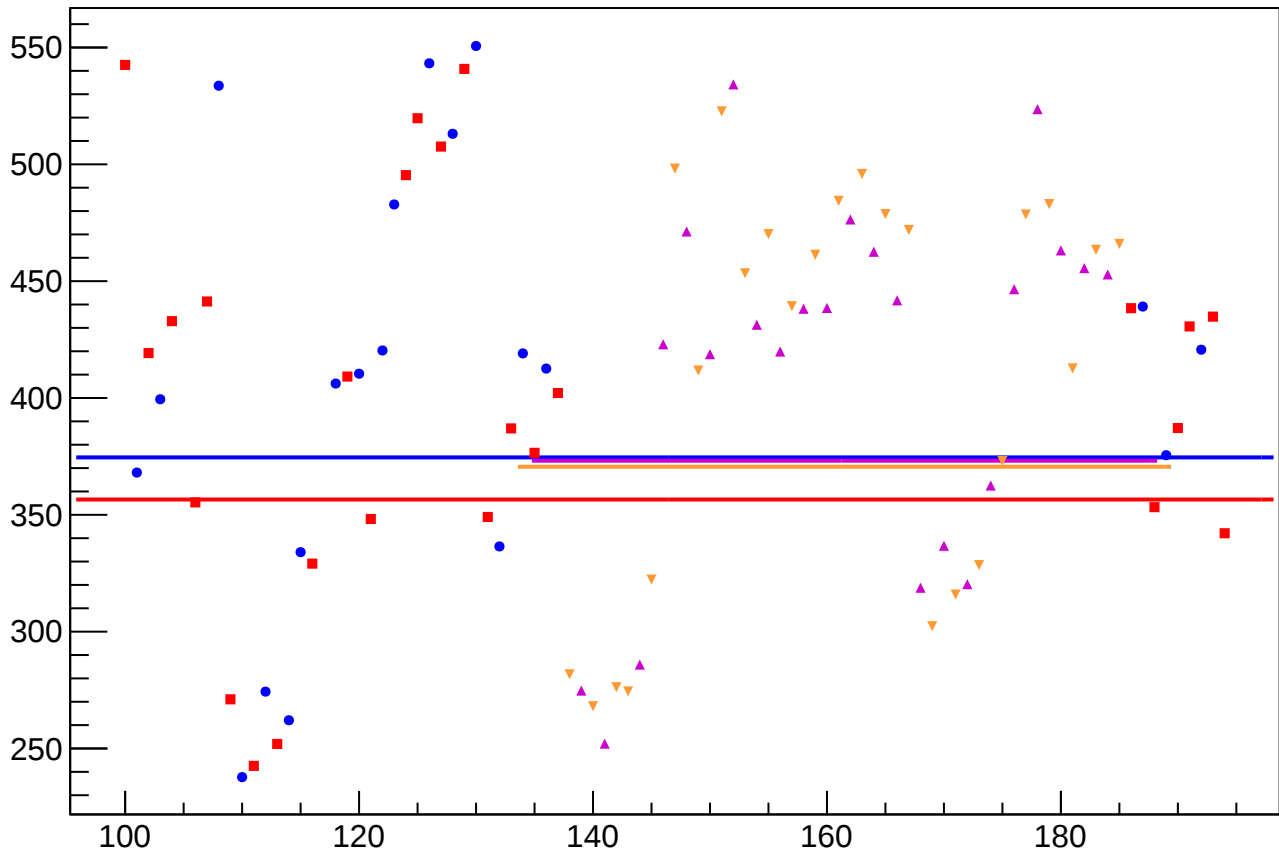
Right: 583.811 ± 86.768 $\chi^2/\text{NDF}: 2620.9/44$

In: -349.535 ± 76.136 $\chi^2/\text{NDF}: 821.7/42$

Out: 1275.816 ± 70.096 $\chi^2/\text{NDF}: 2510.9/49$

All: 530.156 ± 51.568 $\chi^2/\text{NDF}: 3579.3/92$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 374.579+/-0.095 χ^2/NDF : 797246.6/19

Left Out: 370.580+/-0.063 χ^2/NDF :1878118.9/24

Right Out: 356.546+/-0.080 χ^2/NDF : 921336.0/24

Left In: 373.161+/-0.065 χ^2/NDF :1636244.2/22

Left: 371.824+/-0.045 χ^2/NDF : 3515172.3/47

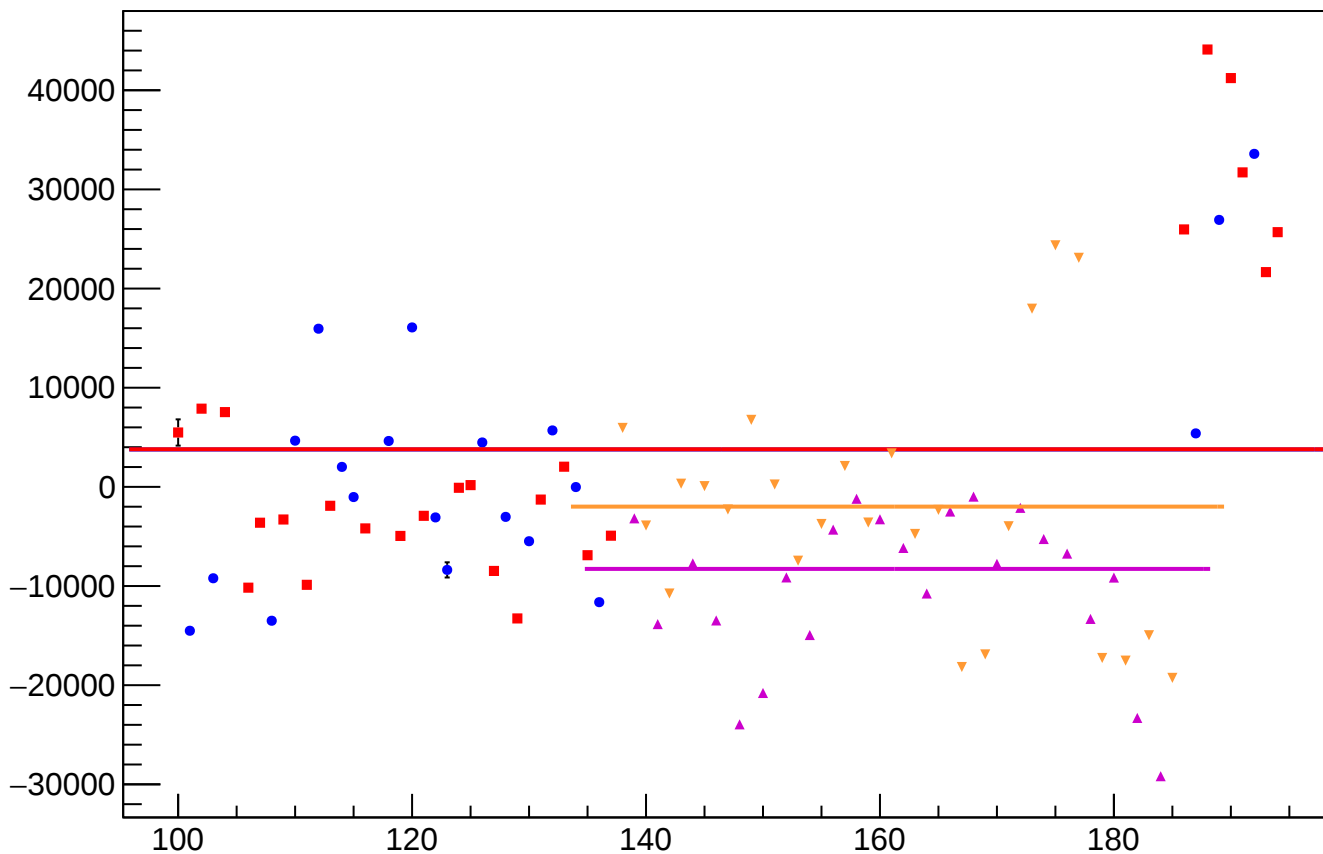
Right: 364.042+/-0.061 χ^2/NDF : 1739564.4/44

In: 373.615+/-0.054 χ^2/NDF :2433641.9/42

Out: 365.228+/-0.050 χ^2/NDF :2818367.1/49

All: 369.075+/-0.036 χ^2/NDF : 5265143.4/92

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3767.726+/-51.329 χ^2/NDF : 67970.3/19

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 3792.448+/-46.060 χ^2/NDF : 126411.3/24

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

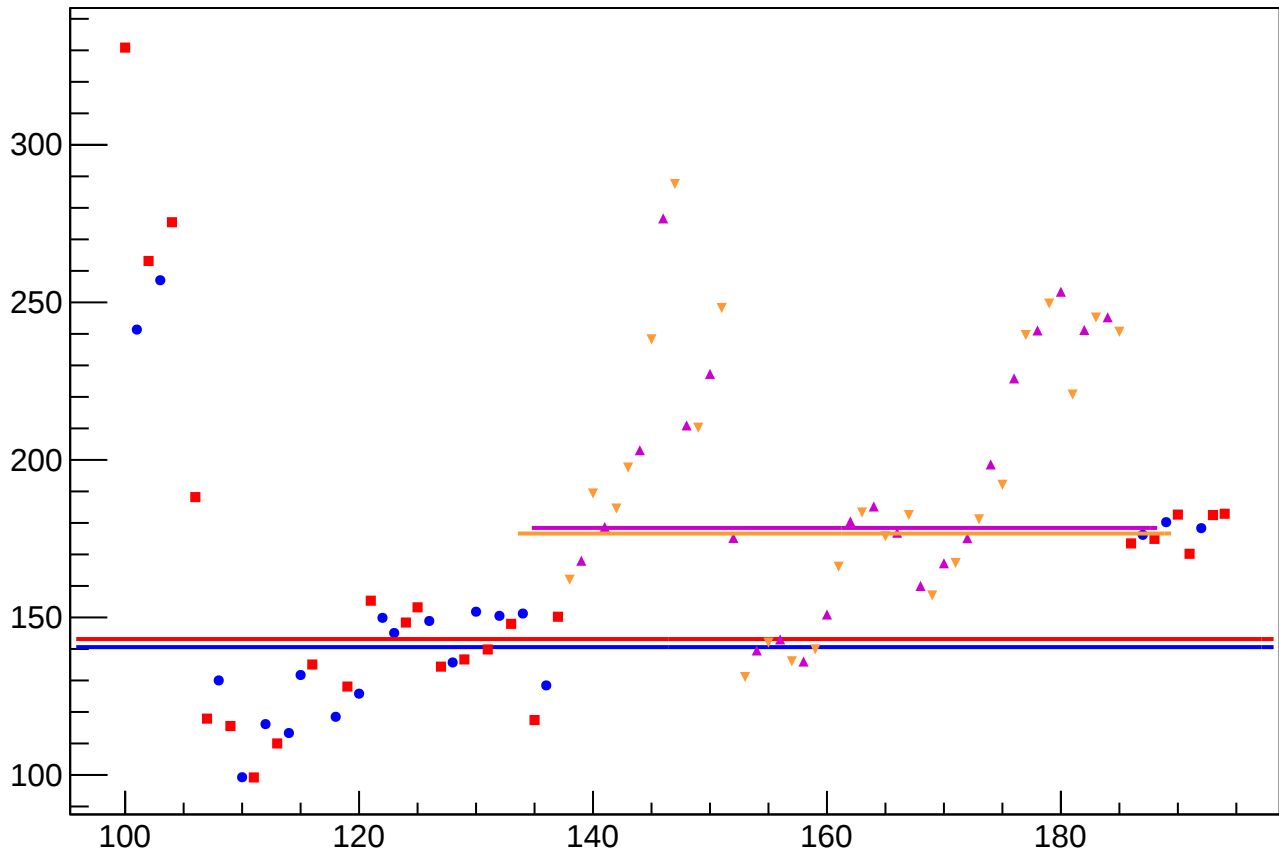
Right: 3781.420+/-34.281 χ^2/NDF : 194381.7/44

In: -3132.875+/-33.537 χ^2/NDF : 122377.7/42

Out: 663.213+/-31.206 χ^2/NDF : 198709.5/49

All: -1098.305+/-22.846 χ^2/NDF : 327953.9/9

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 140.583 ± 0.036 χ^2/NDF : 816529.9/19

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 143.145 ± 0.033 χ^2/NDF : 1182079.7/24

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

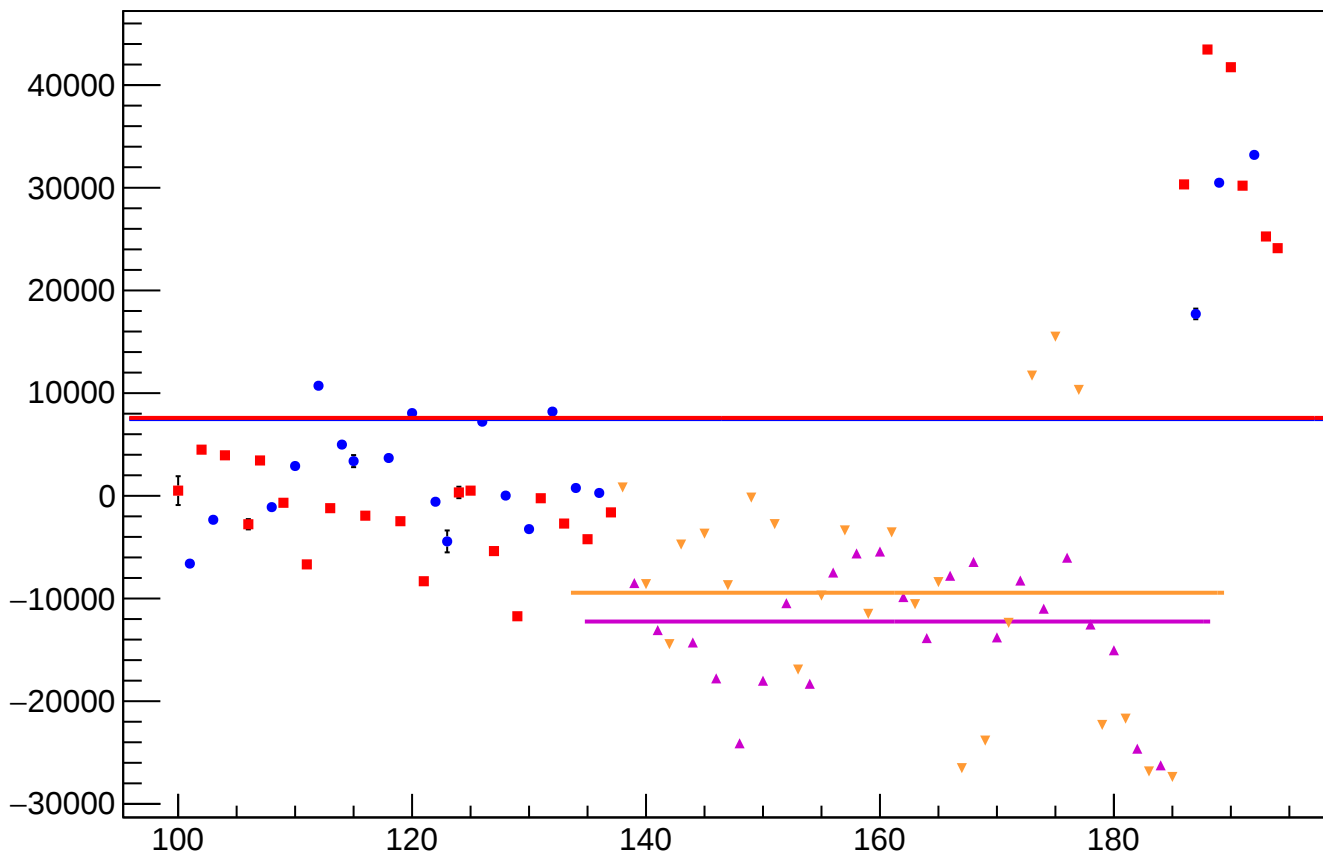
Right: 142.002 ± 0.024 χ^2/NDF : 2001370.2/44

In: 162.263 ± 0.024 χ^2/NDF : 2732874.3/42

Out: 161.266 ± 0.022 χ^2/NDF : 3305328.3/49

All: 161.729 ± 0.016 χ^2/NDF : 6039150.4/92

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7473.094+/-64.743 χ^2/NDF : 30580.6/19

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 7589.026+/-55.671 χ^2/NDF : 95958.6/24

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

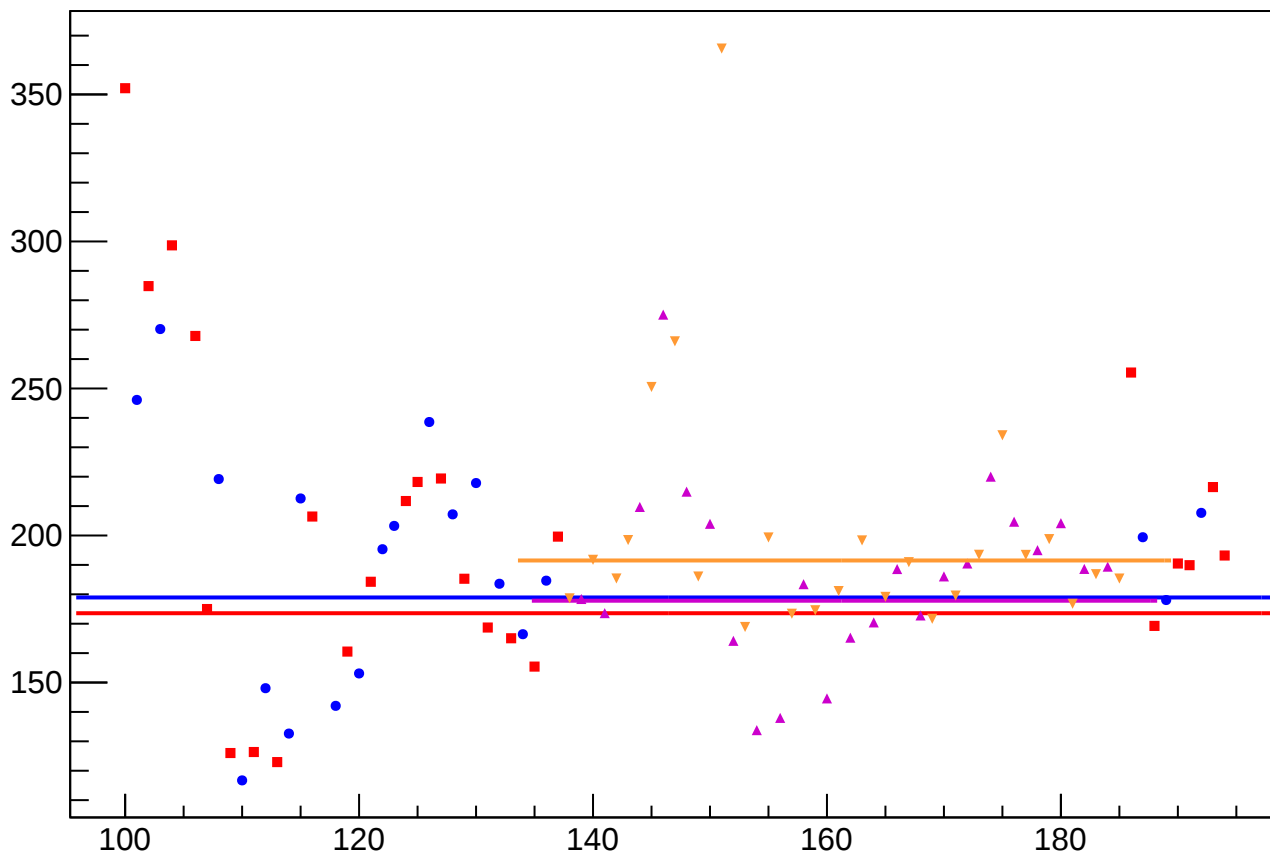
Right: 7539.745+/-42.212 χ^2/NDF : 126541.0/44

In: -6023.997+/-36.360 χ^2/NDF : 110680.2/42

Out: -2612.646+/-35.246 χ^2/NDF : 214223.5/49

All: -4265.282+/-25.307 χ^2/NDF : 329441.8/99

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.926+/-0.046 χ^2/NDF : 730087.3/19

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 173.567+/-0.039 χ^2/NDF : 1112478.4/24

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

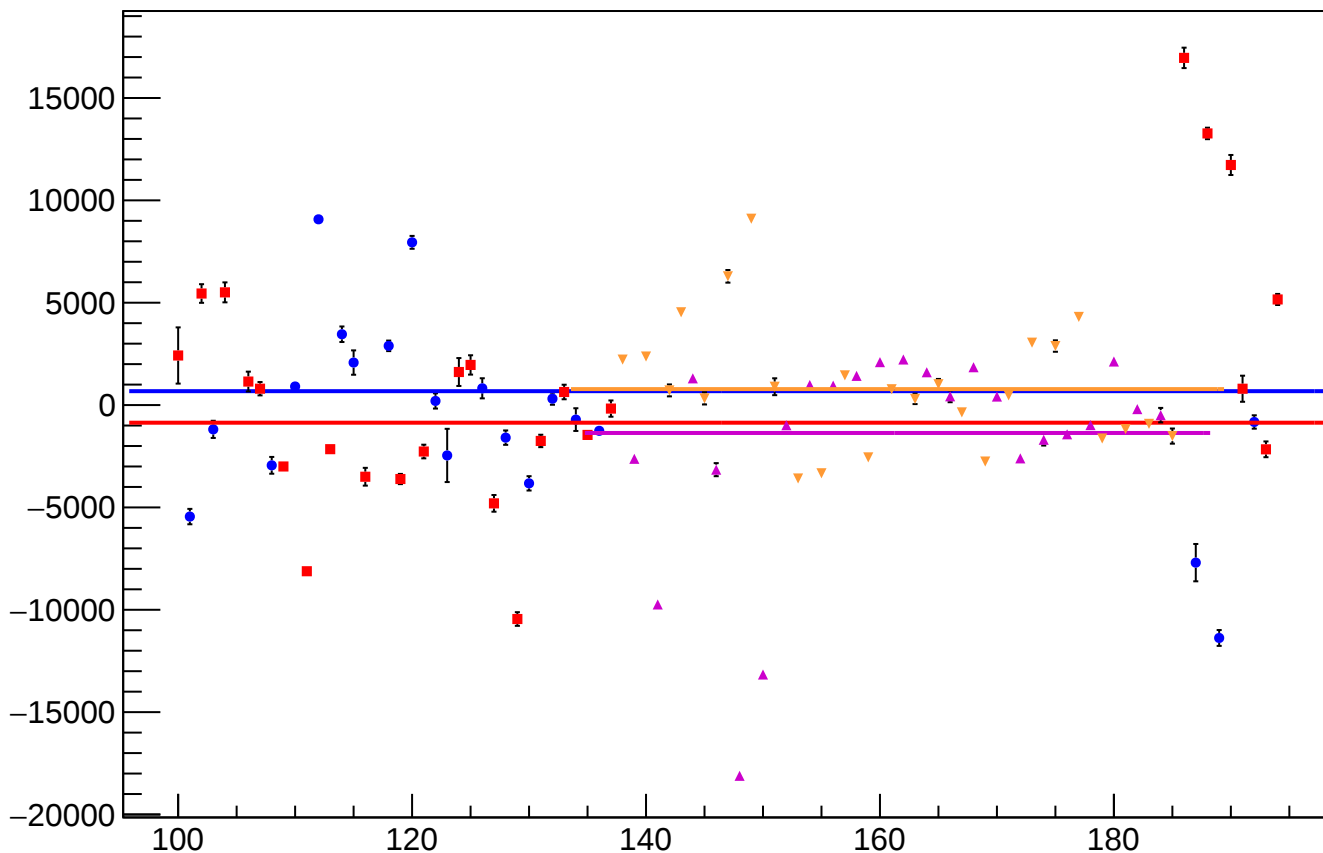
Right: 175.845+/-0.030 χ^2/NDF : 1850441.5/44

In: 178.170+/-0.026 χ^2/NDF : 1592979.8/42

Out: 184.316+/-0.025 χ^2/NDF : 1964162.3/49

All: 181.338+/-0.018 χ^2/NDF : 3586606.0/92

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 678.890+/-73.629 χ^2/NDF : 3787.8/19

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -861.291+/-63.529 χ^2/NDF : 8194.2/24

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

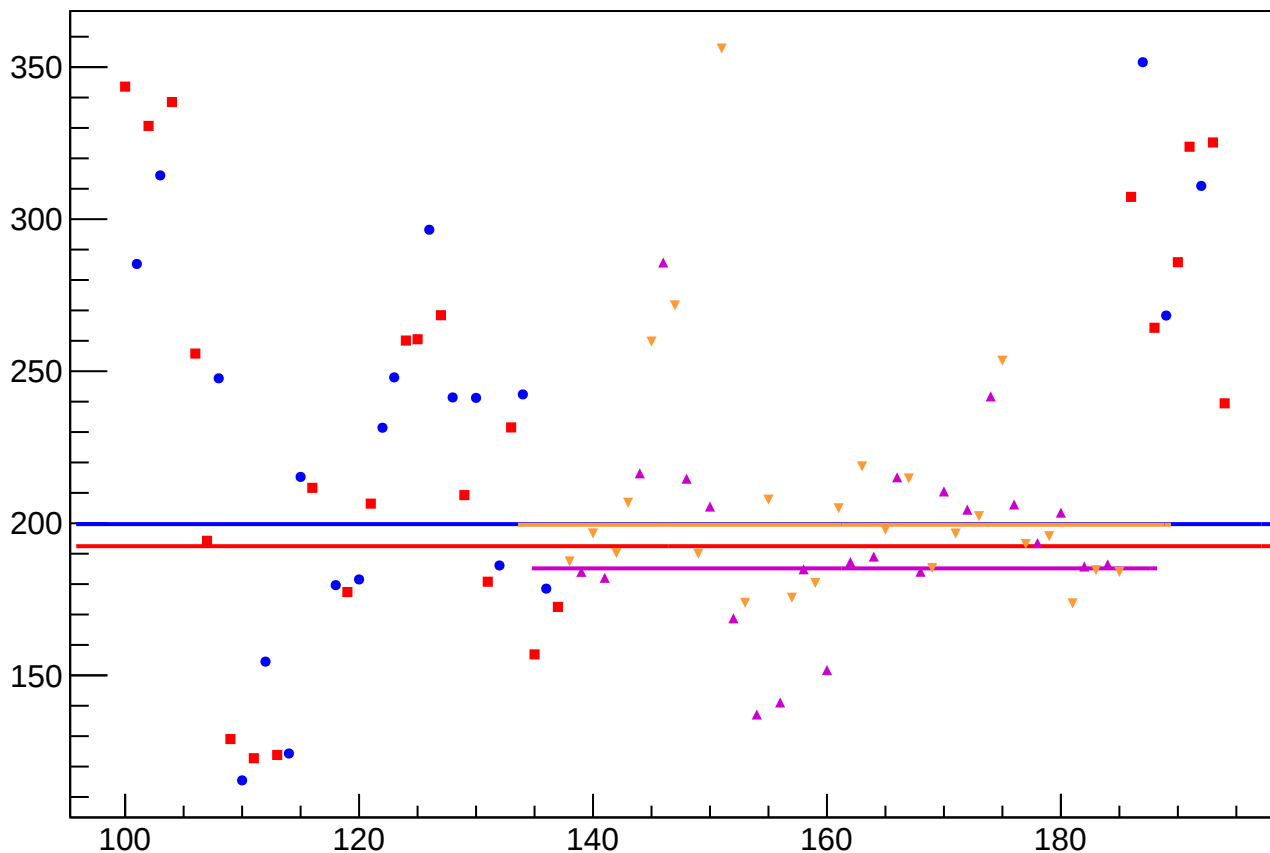
Right: -204.000+/-48.099 χ^2/NDF : 12232.8/44

In: -793.255+/-38.894 χ^2/NDF : 15975.2/42

Out: 192.134+/-38.020 χ^2/NDF : 12883.4/49

All: -289.367+/-27.188 χ^2/NDF : 29186.8/92

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.724 $\pm$ 0.052 χ^2 /NDF: 1360276.6/19

Left Out: 199.547 $\pm$ 0.034 χ^2 /NDF: 729356.3/24

Right Out: 192.468 $\pm$ 0.045 χ^2 /NDF: 2112538.3/24

Left In: 185.171 $\pm$ 0.032 χ^2 /NDF: 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2 /NDF: 1707122.0/47

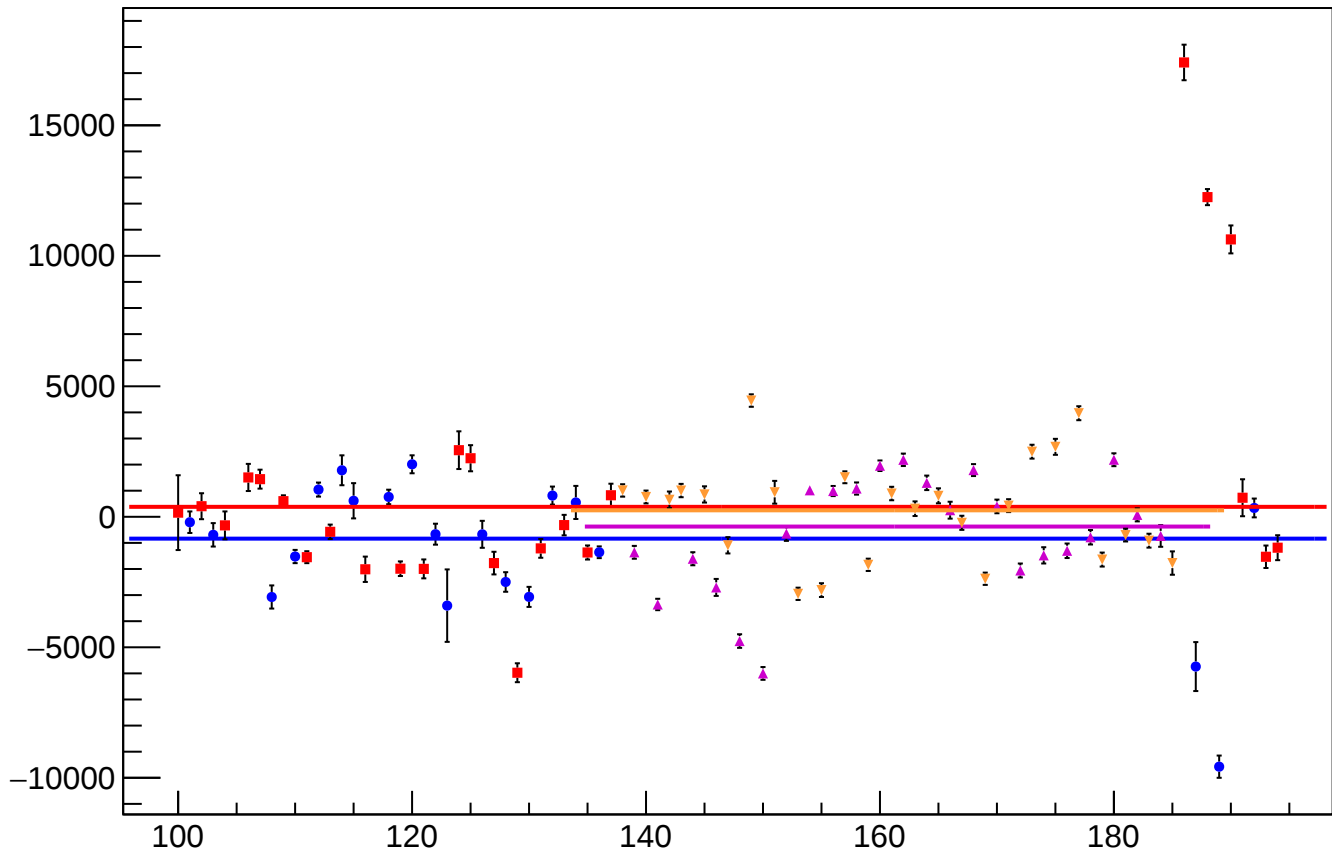
Right: 195.565 $\pm$ 0.034 χ^2 /NDF: 3483950.8/44

In: 189.232 $\pm$ 0.028 χ^2 /NDF: 2299366.9/42

Out: 197.011 $\pm$ 0.027 χ^2 /NDF: 2857832.6/49

All: 193.210 $\pm$ 0.019 χ^2 /NDF: 5198117.1/92

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -836.936+/-84.156 χ^2/NDF : 759.4/19

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 381.561+/-75.417 χ^2/NDF : 3161.8/24

Left In: -374.122+/-52.049 χ^2/NDF :1801.0/22

Left: -72.006+/-37.325 χ^2/NDF : 3225.5/47

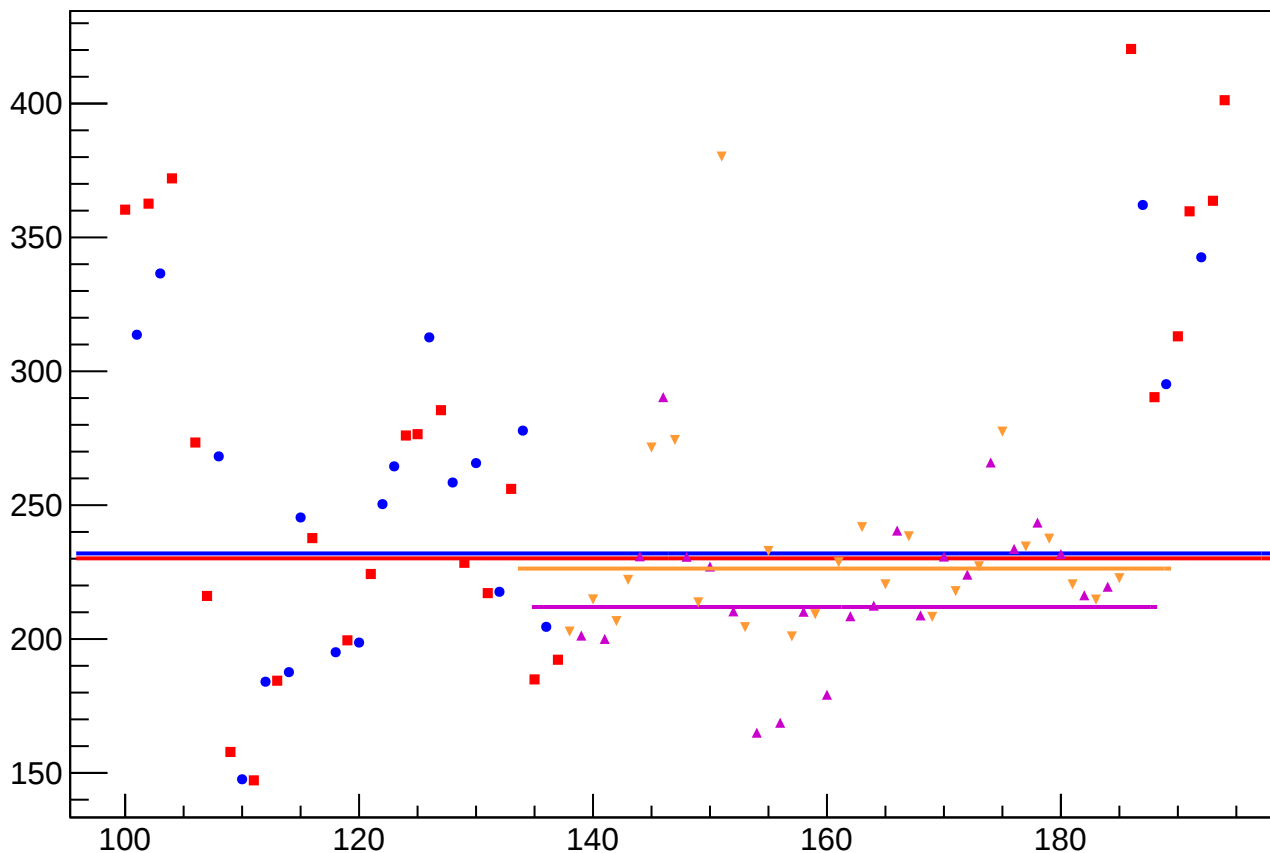
Right: -161.157+/-56.164 χ^2/NDF : 4037.5/44

In: -502.175+/-44.267 χ^2/NDF :2582.3/42

Out: 292.669+/-43.665 χ^2/NDF :4519.0/49

All: -99.318+/-31.086 χ^2/NDF : 7264.7/92

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 231.969+/-0.060 χ^2/NDF : 945257.7/19

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 230.133+/-0.053 χ^2/NDF : 1802582.1/24

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

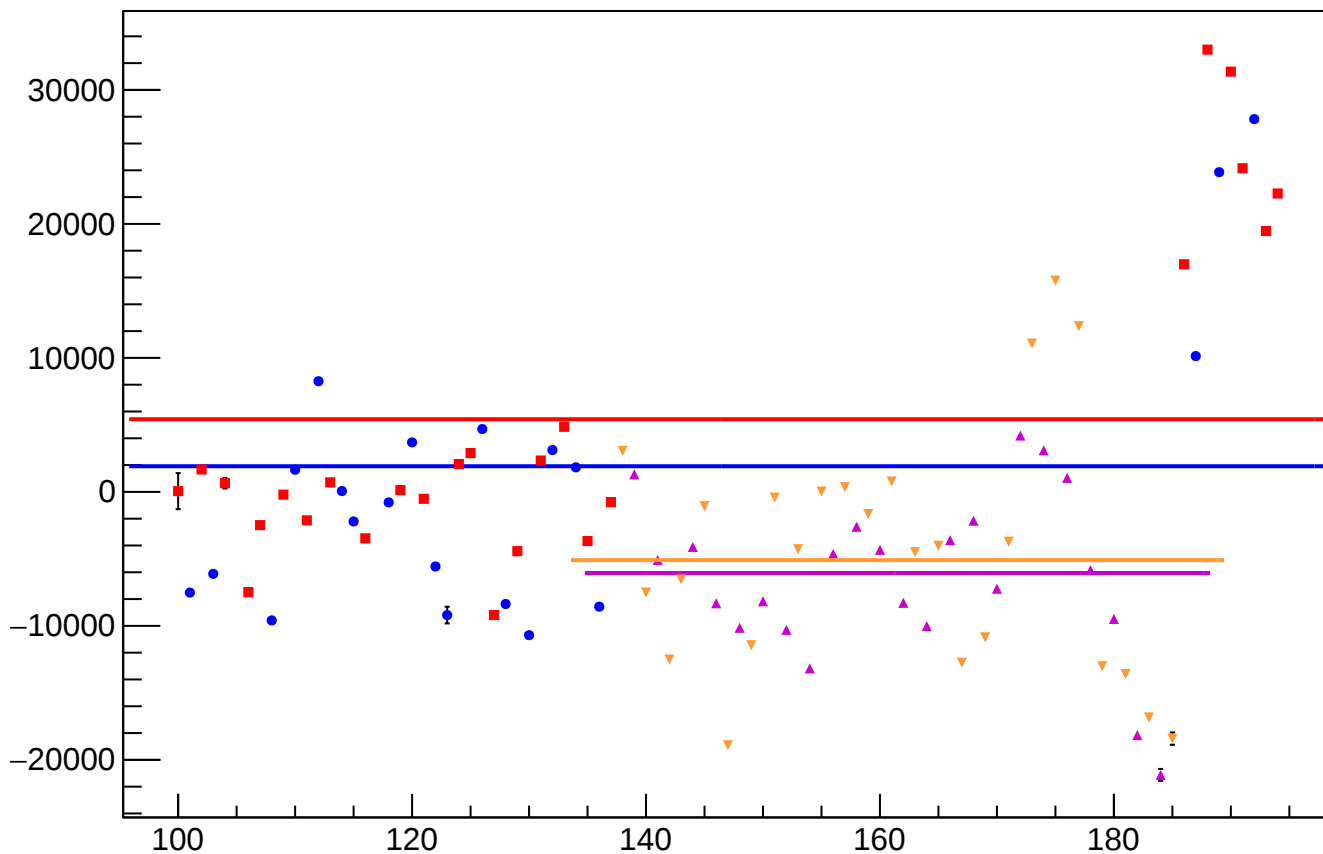
Right: 230.951+/-0.040 χ^2/NDF : 2748367.9/44

In: 217.504+/-0.031 χ^2/NDF : 1611300.5/42

Out: 227.599+/-0.031 χ^2/NDF : 2327019.7/49

All: 222.621+/-0.022 χ^2/NDF : 3991046.6/92

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1914.132+/-43.764 χ^2/NDF : 66286.8/19

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5422.293+/-38.826 χ^2/NDF : 99652.5/24

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

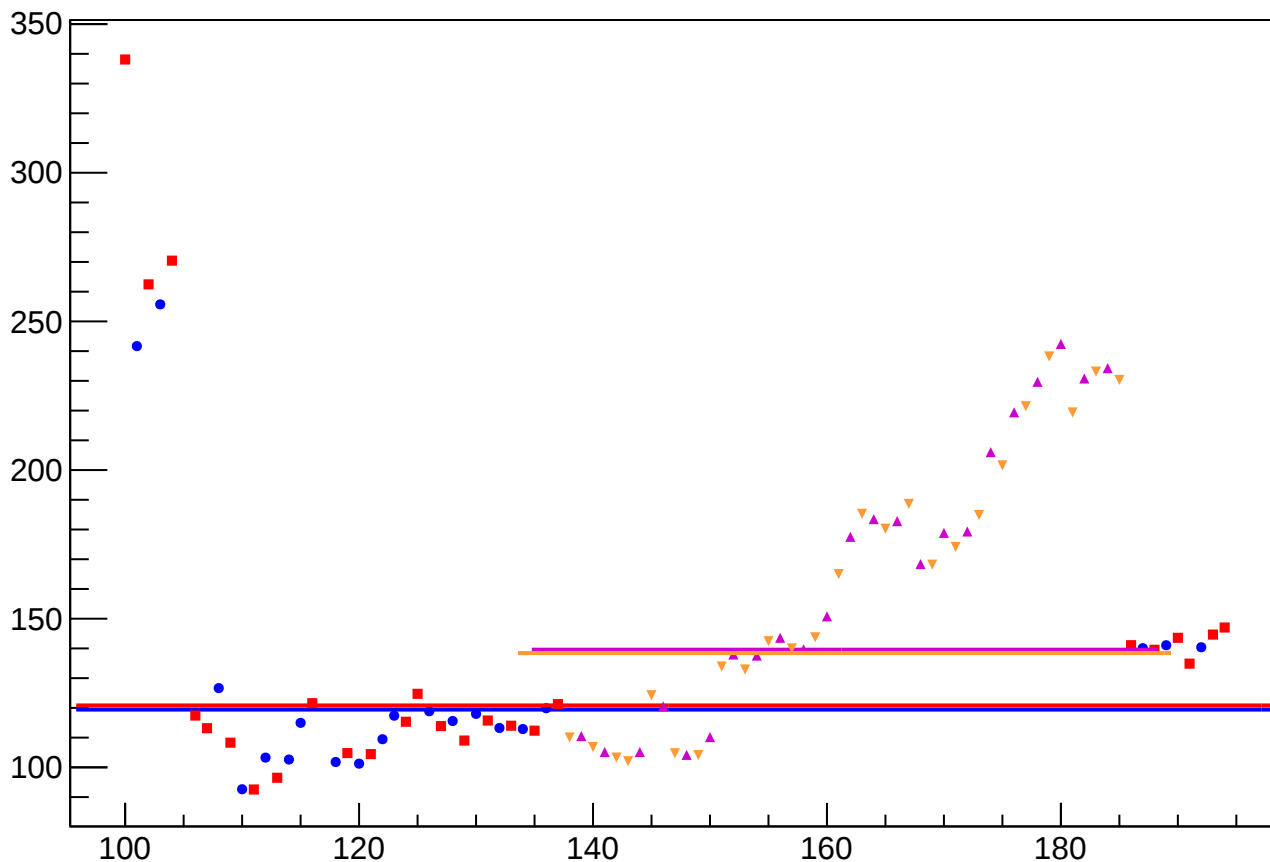
Right: 3877.223+/-29.044 χ^2/NDF : 169535.0/44

In: -2945.642+/-27.333 χ^2/NDF : 104094.0/42

Out: -575.620+/-25.452 χ^2/NDF : 195896.0/49

All: -1676.272+/-18.627 χ^2/NDF : 304016.9/99

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 119.434+/-0.031 χ^2/NDF : 824616.6/19

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 120.827+/-0.027 χ^2/NDF : 1013129.4/24

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

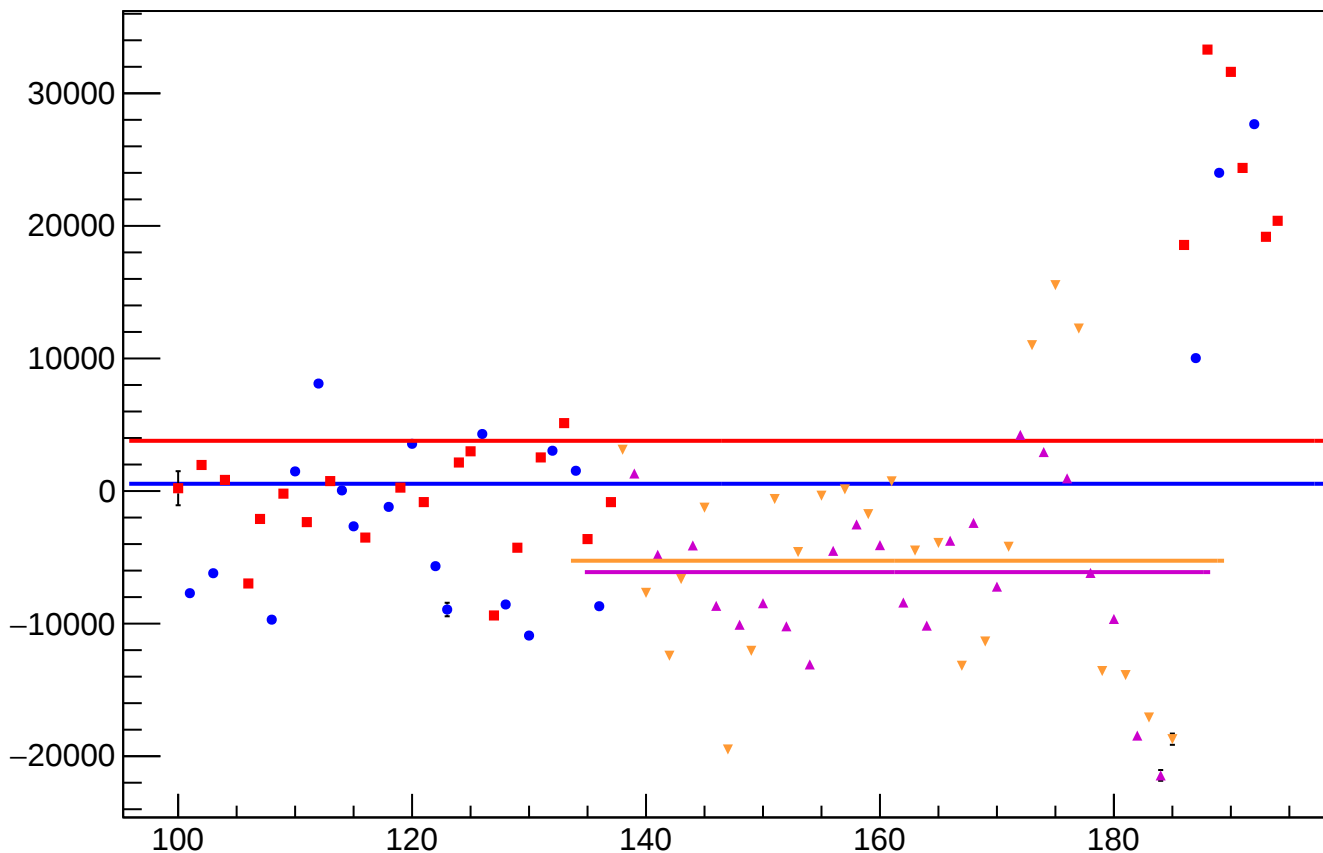
Right: 120.214+/-0.021 χ^2/NDF : 1838880.2/44

In: 131.720+/-0.019 χ^2/NDF : 3496715.8/42

Out: 130.869+/-0.018 χ^2/NDF : 3797158.2/49

All: 131.264+/-0.013 χ^2/NDF : 7294913.6/92

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 548.742+/-37.915 χ^2/NDF : 70775.0/19

Left Out: -5255.652+/-30.622 χ^2/NDF : 64324.6/24

Right Out: 3789.204+/-34.196 χ^2/NDF : 106967.7/24

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166 χ^2/NDF : 85960.3/47

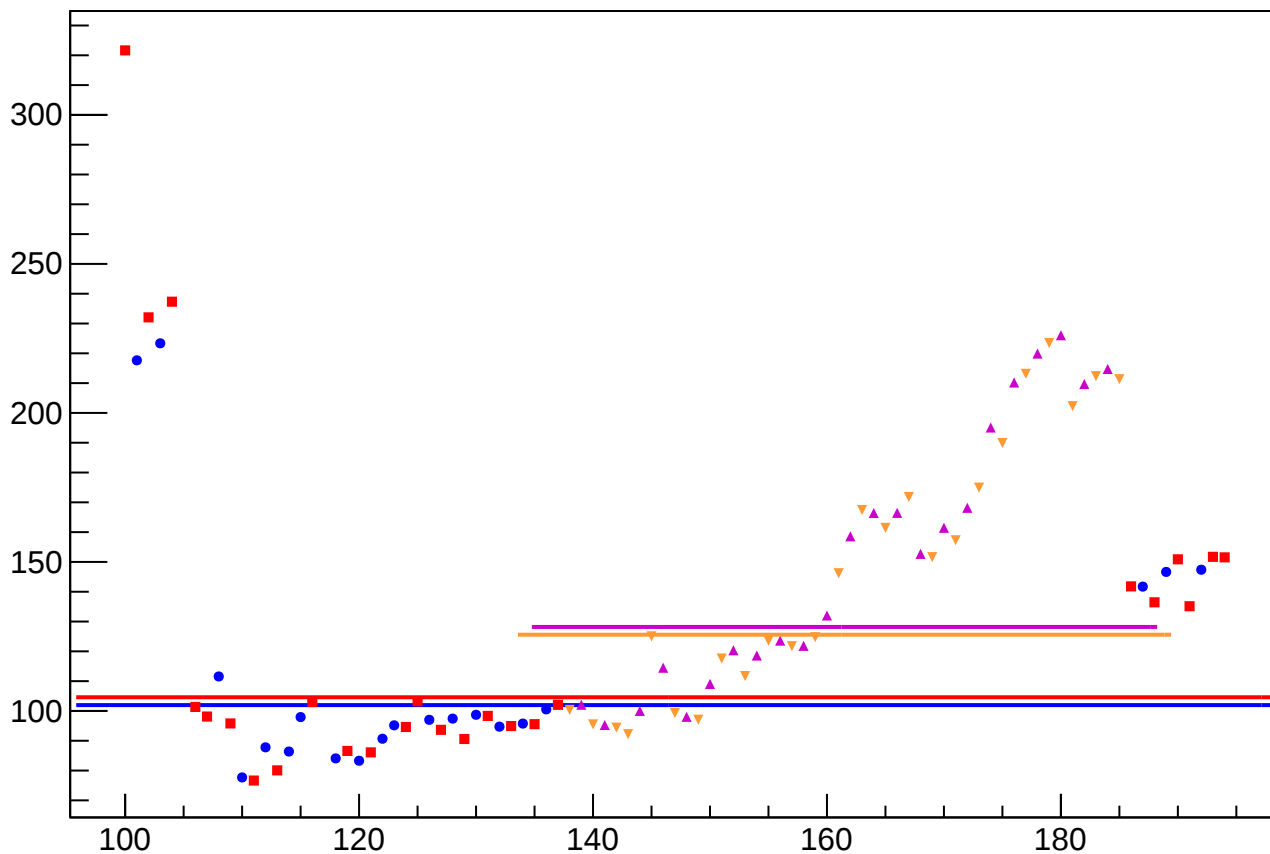
Right: 2335.662+/-25.394 χ^2/NDF : 181770.7/44

In: -3330.160+/-24.510 χ^2/NDF : 110016.1/42

Out: -1230.439+/-22.812 χ^2/NDF : 210118.5/49

All: -2205.050+/-16.699 χ^2/NDF : 324067.0/9

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 101.959 $\pm$ 0.027 χ^2/NDF : 1131725.2/19

Left Out: 125.577 $\pm$ 0.022 χ^2/NDF : 2595752.6/24

Right Out: 104.594 $\pm$ 0.024 χ^2/NDF : 1522713.1/24

Left In: 128.184 $\pm$ 0.023 χ^2/NDF : 2332977.5/22

Left: 126.818 $\pm$ 0.016 χ^2/NDF : 4935627.6/47

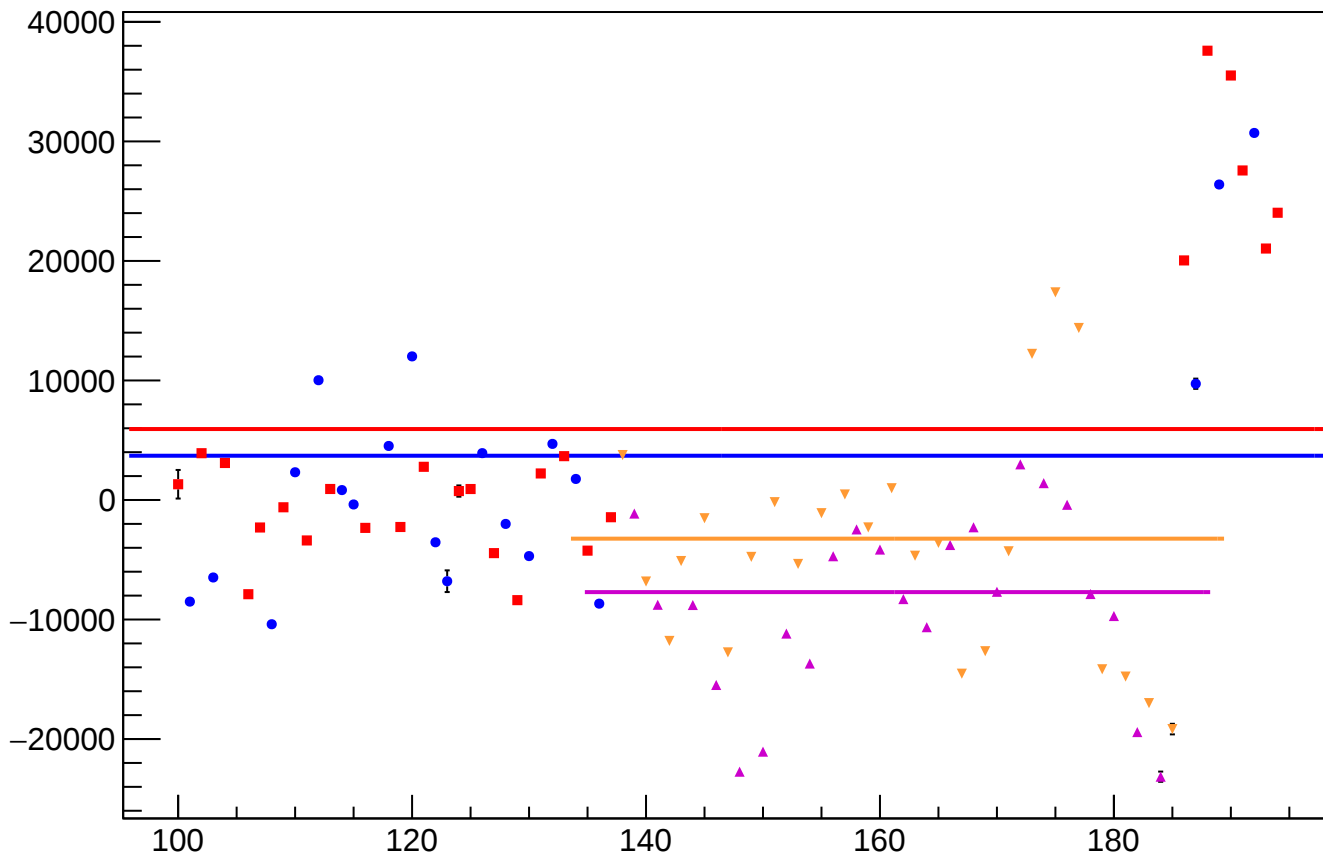
Right: 103.412 $\pm$ 0.018 χ^2/NDF : 2659765.6/44

In: 117.224 $\pm$ 0.017 χ^2/NDF : 4021648.9/42

Out: 116.239 $\pm$ 0.016 χ^2/NDF : 4536377.4/49

All: 116.697 $\pm$ 0.012 χ^2/NDF : 8559757.5/92

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 3702.733+/-50.846 χ^2/NDF : 52333.2/19

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 5935.960+/-45.462 χ^2/NDF : 88768.5/24

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

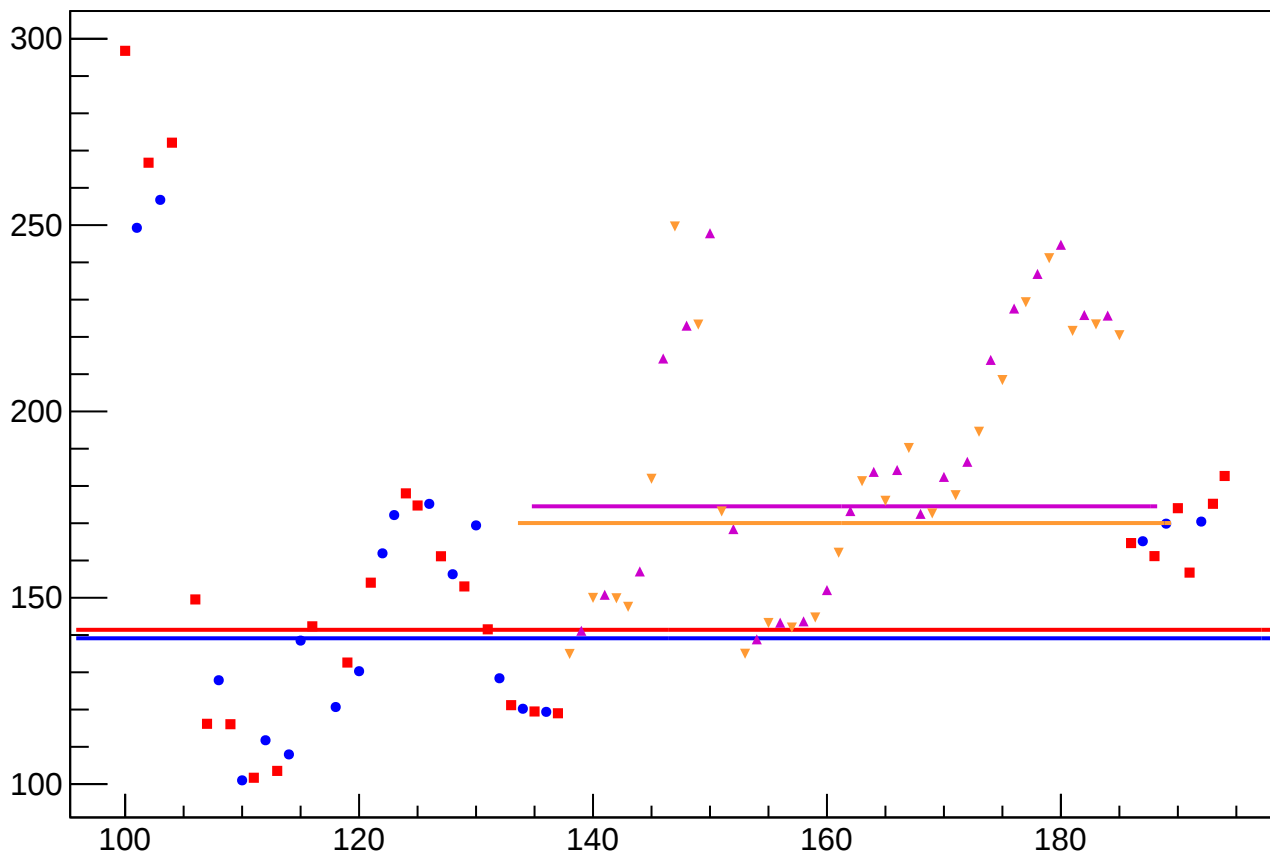
Right: 4943.787+/-33.891 χ^2/NDF : 142173.8/44

In: -2950.730+/-32.829 χ^2/NDF : 102965.7/42

Out: 832.094+/-30.275 χ^2/NDF : 148155.2/49

All: -906.495+/-22.256 χ^2/NDF : 258296.3/92

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 139.127 $\pm$ 0.036 χ^2/NDF : 902325.3/19

Left Out: 170.050 $\pm$ 0.029 χ^2/NDF : 1240866.9/24

Right Out: 141.401 $\pm$ 0.032 χ^2/NDF : 1138776.4/24

Left In: 174.539 $\pm$ 0.030 χ^2/NDF : 1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2/NDF : 2462472.2/47

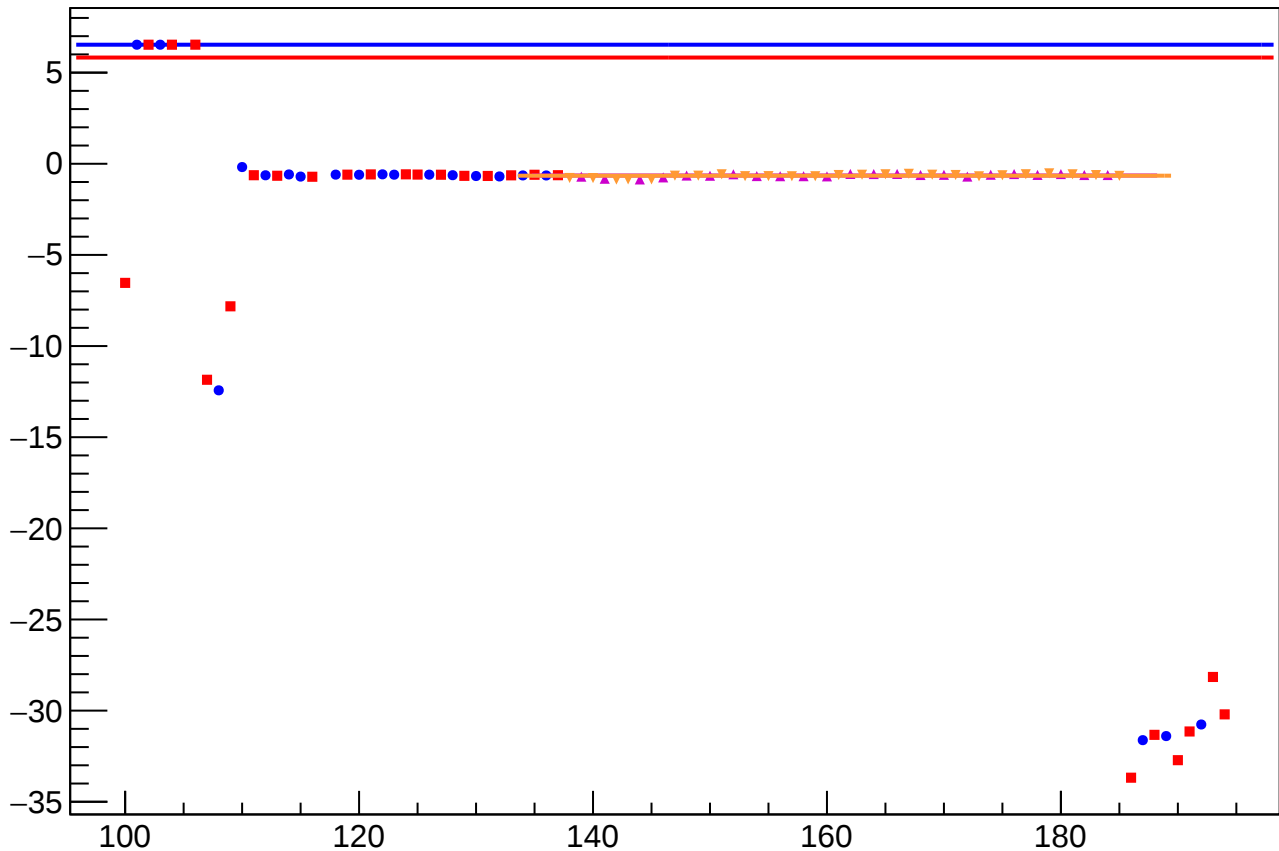
Right: 140.391 $\pm$ 0.024 χ^2/NDF : 2043325.3/44

In: 159.777 $\pm$ 0.023 χ^2/NDF : 2678114.8/42

Out: 157.345 $\pm$ 0.021 χ^2/NDF : 2821637.0/49

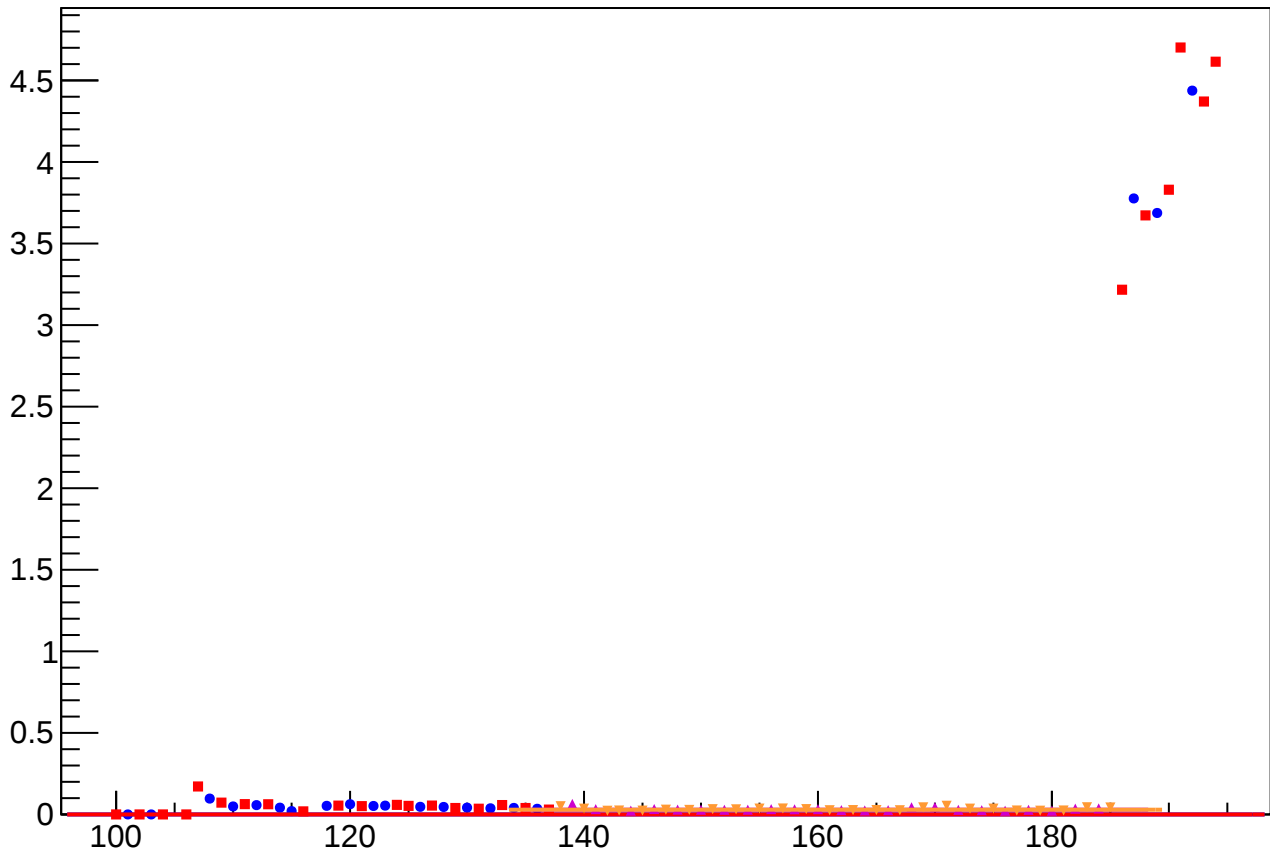
All: 158.463 $\pm$ 0.016 χ^2/NDF : 5505684.3/92

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000	χ^2/NDF : 127691620960.8/19	Left: -0.649+/-0.000	χ^2/NDF : 302910331.9/47
Left Out: -0.654+/-0.000	χ^2/NDF : 179109810.4/24	Right: 6.155+/-0.000	χ^2/NDF : 776078465204782.5
Right Out: 5.827+/-0.000	χ^2/NDF : 755947603663410.5/24	In: 6.530+/-0.000	χ^2/NDF : 953039028582.2/42
Left In: -0.644+/-0.000	χ^2/NDF : 122913584.0/22	Out: 5.826+/-0.000	χ^2/NDF : 756656632322207.8/4
		All: 6.153+/-0.000	χ^2/NDF : 77760183498776

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12008629.2/19

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 16041169.0/24

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

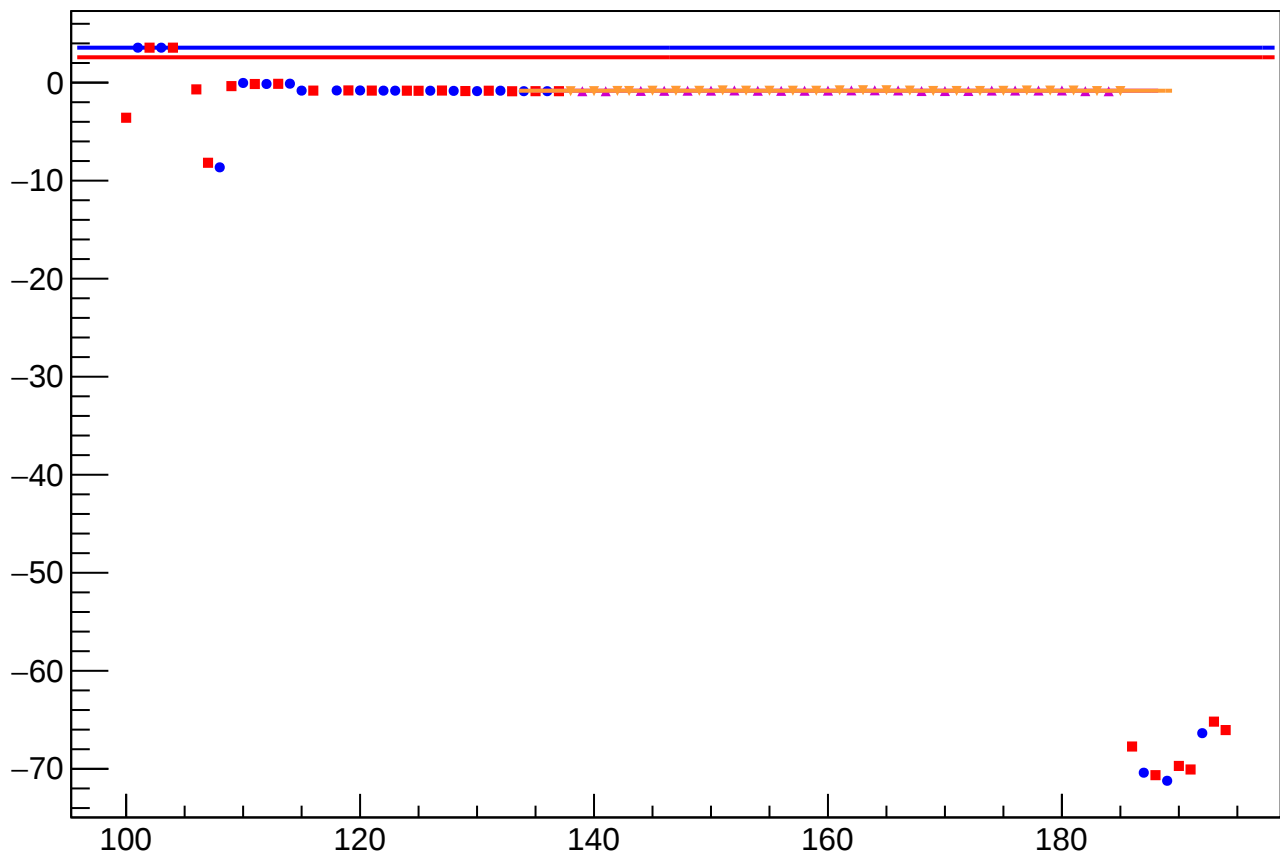
Right: 0.000+/-0.000 χ^2/NDF : 28050047.2/44

In: 0.000+/-0.000 χ^2/NDF :39970326.2/42

Out: 0.000+/-0.000 χ^2/NDF :45916852.6/49

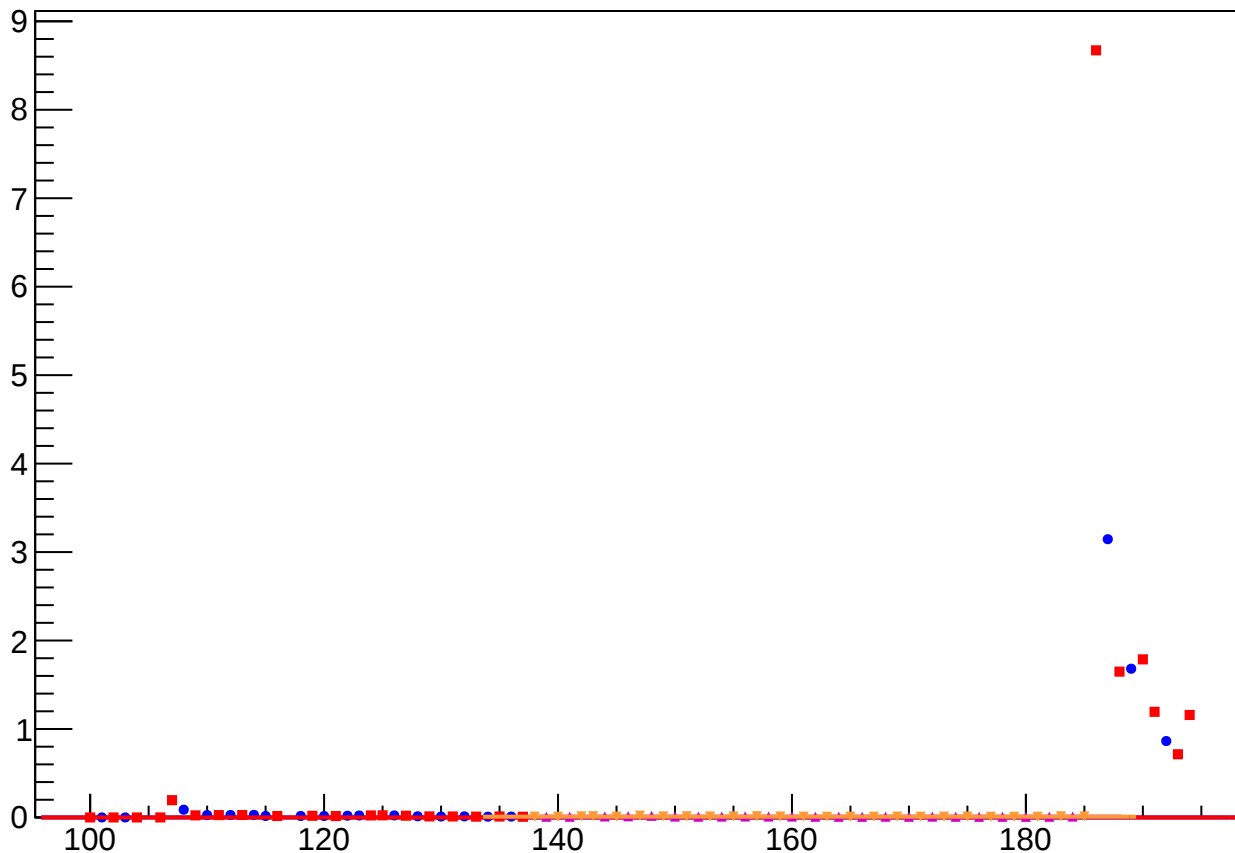
All: 0.000+/-0.000 χ^2/NDF : 85887593.1/92

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 490257120877.1/19	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382276805523502.8
Right Out: 2.583+/-0.000	χ^2/NDF : 1253515296212974.8/24	In: 3.560+/-0.000	χ^2/NDF : 4136010056056.9/42
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255737628109340.5
		All: 3.038+/-0.000	χ^2/NDF : 13879632799169

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12271644.6/19

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 15699991.1/24

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

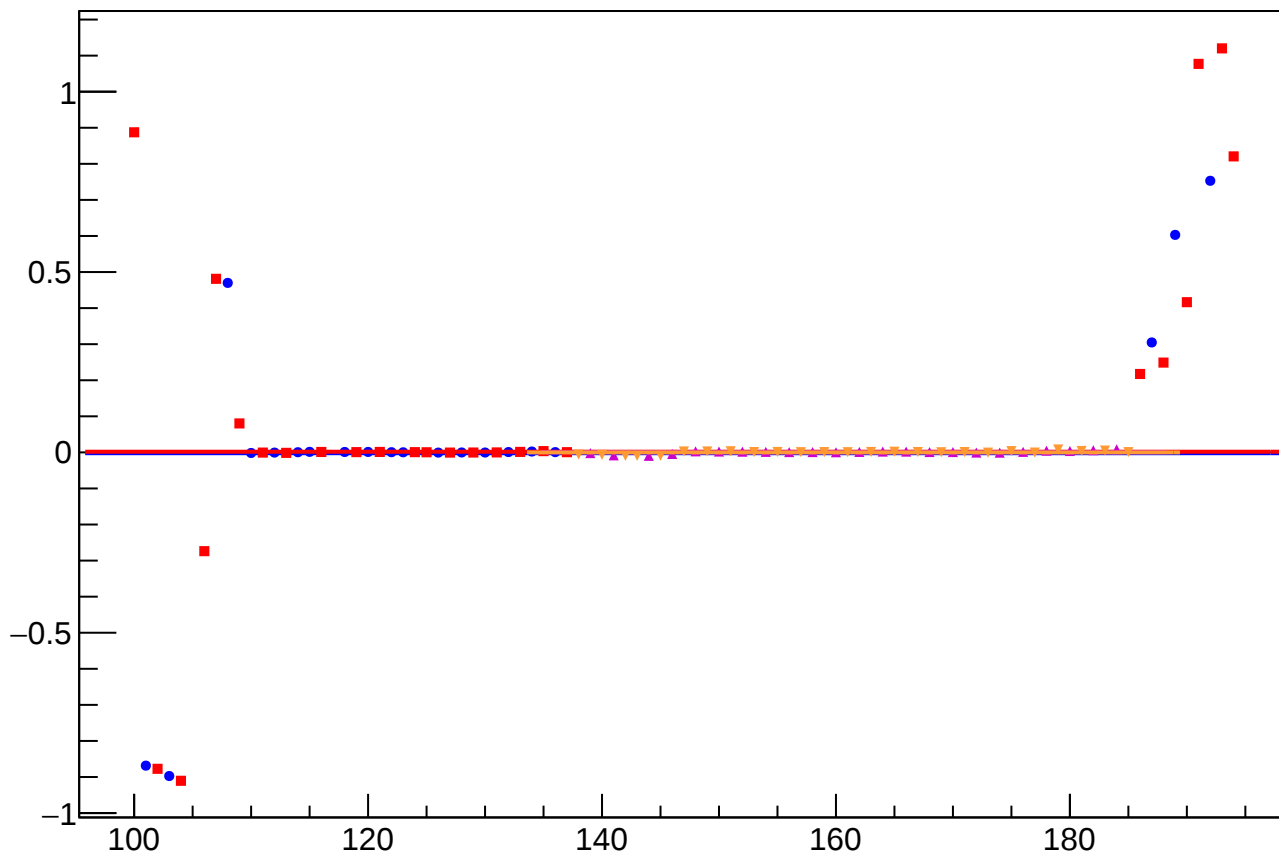
Right: 0.000+/-0.000 χ^2/NDF : 27971914.9/44

In: 0.000+/-0.000 χ^2/NDF :41807771.6/42

Out: 0.000+/-0.000 χ^2/NDF :47118653.0/49

All: 0.000+/-0.000 χ^2/NDF : 88927175.8/92

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795746641.5/19

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

Right: -0.000+/-0.000 χ^2/NDF : 12851533373.5/44

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

In: -0.000+/-0.000 χ^2/NDF : 9908204150.4/42

Right Out: 0.002+/-0.000

χ^2/NDF : 3042017777.9/24

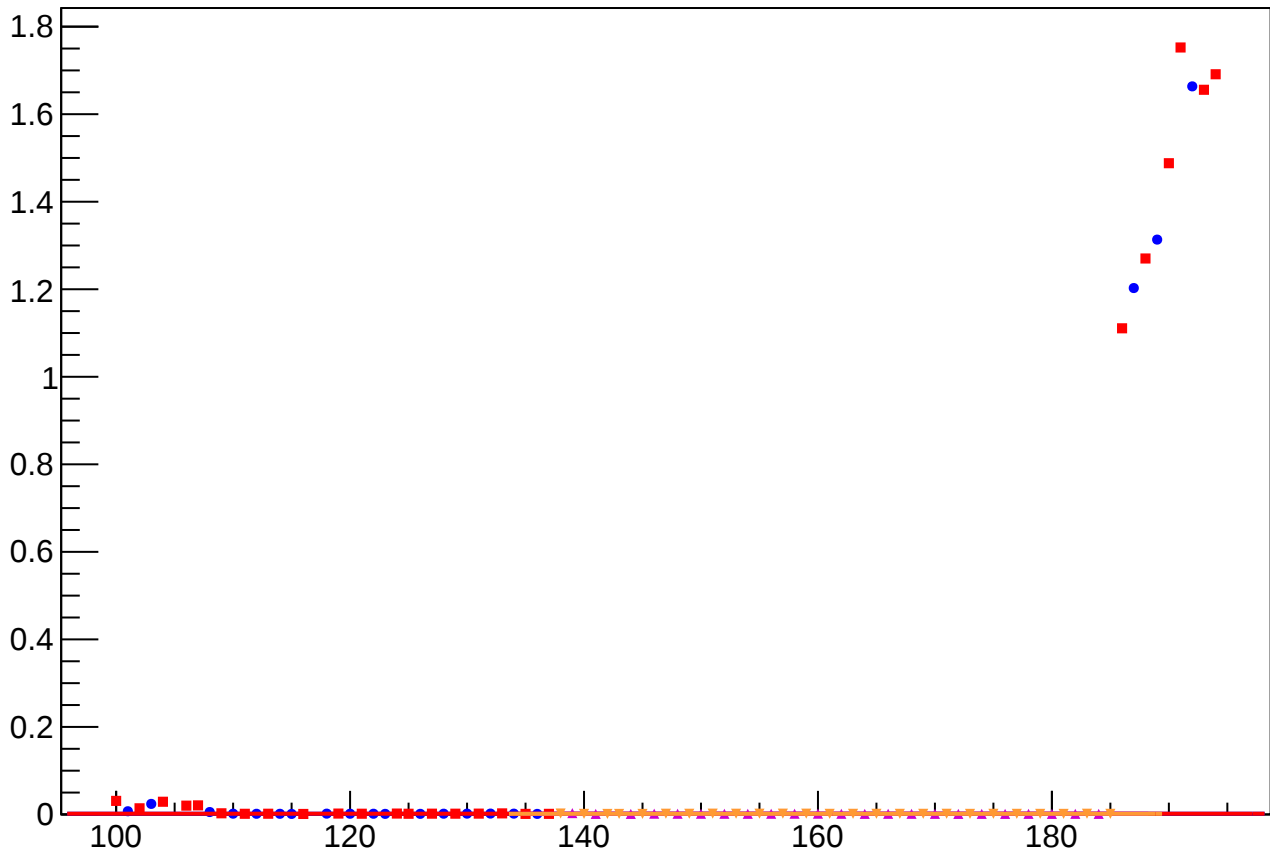
Out: 0.000+/-0.000 χ^2/NDF : 3198229640.9/49

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

All: 0.000+/-0.000 χ^2/NDF : 13106770865.4/9

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4906072.5/19

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9697156.9/24

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

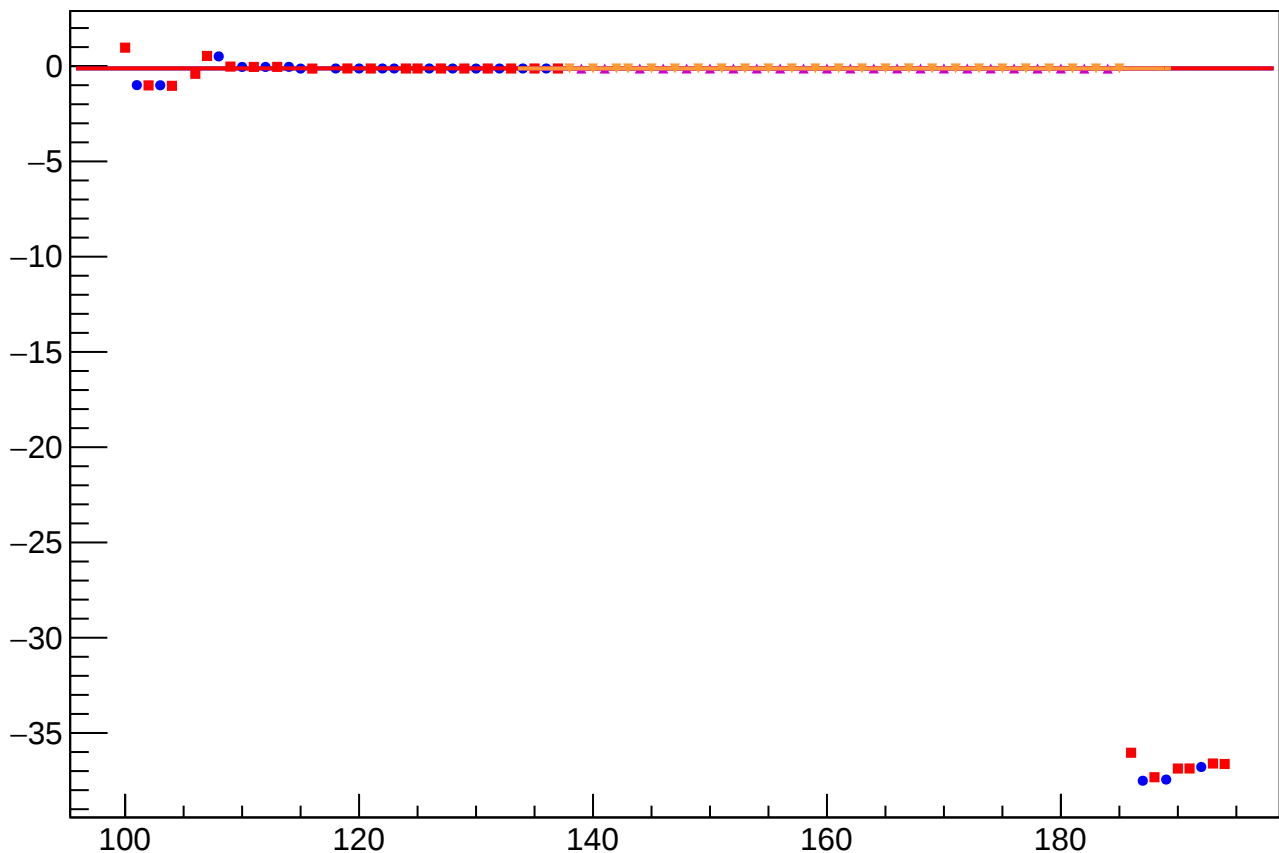
Right: 0.002+/-0.000 χ^2/NDF : 14611807.6/44

In: 0.002+/-0.000 χ^2/NDF : 5582453.3/42

Out: 0.002+/-0.000 χ^2/NDF : 10374150.0/49

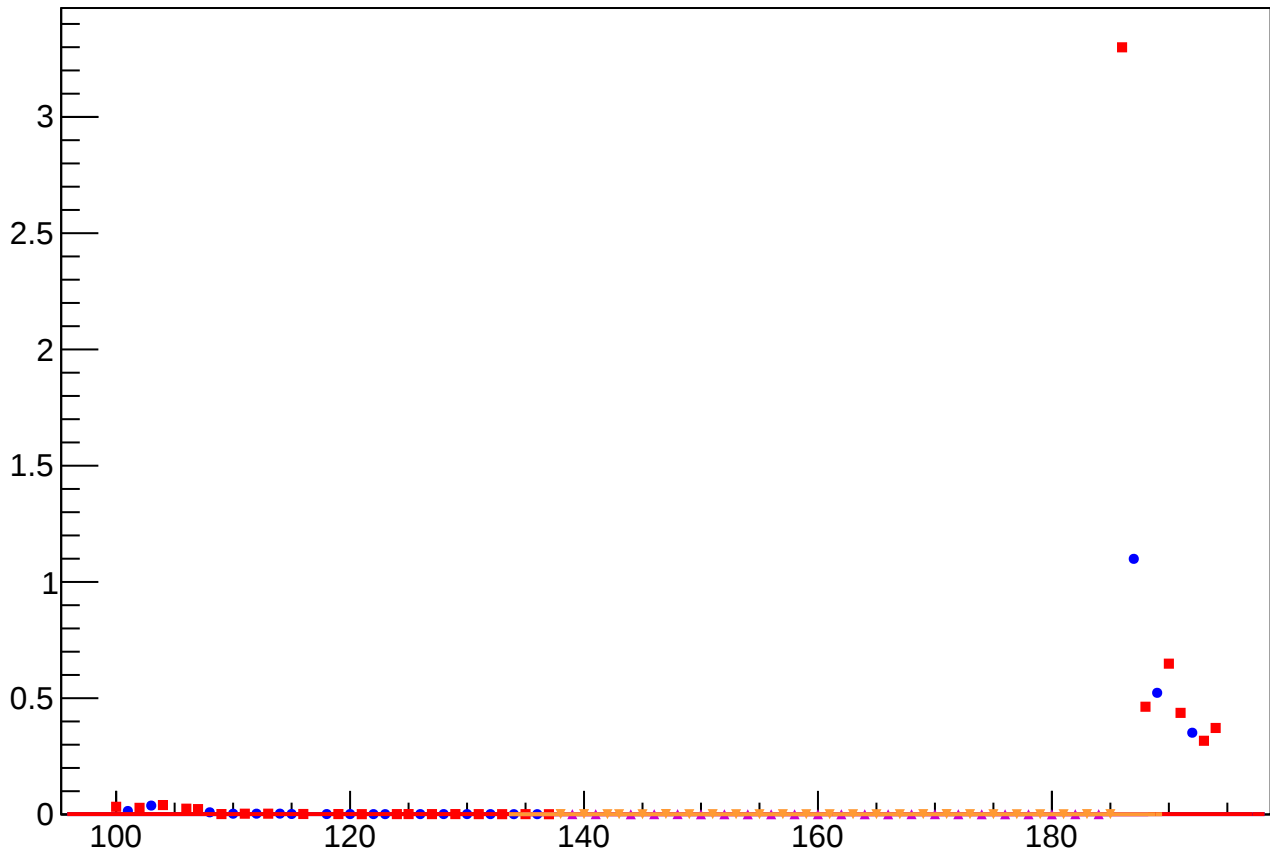
All: 0.002+/-0.000 χ^2/NDF : 15957496.7/92

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000	χ^2/NDF : 15362188217.5/19	Left: -0.121+/-0.000	χ^2/NDF : 110482905.6/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58120109.3/24	Right: -0.118+/-0.000	χ^2/NDF : 42614300663.5/44
Right Out: -0.116+/-0.000	χ^2/NDF : 27230799460.3/24	In: -0.121+/-0.000	χ^2/NDF : 15414590066.7/42
Left In: -0.121+/-0.000	χ^2/NDF : 52113932.9/22	Out: -0.121+/-0.000	χ^2/NDF : 27337436559.2/49
		All: -0.121+/-0.000	χ^2/NDF : 42752878182.1/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5695126.0/19

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9927513.5/24

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

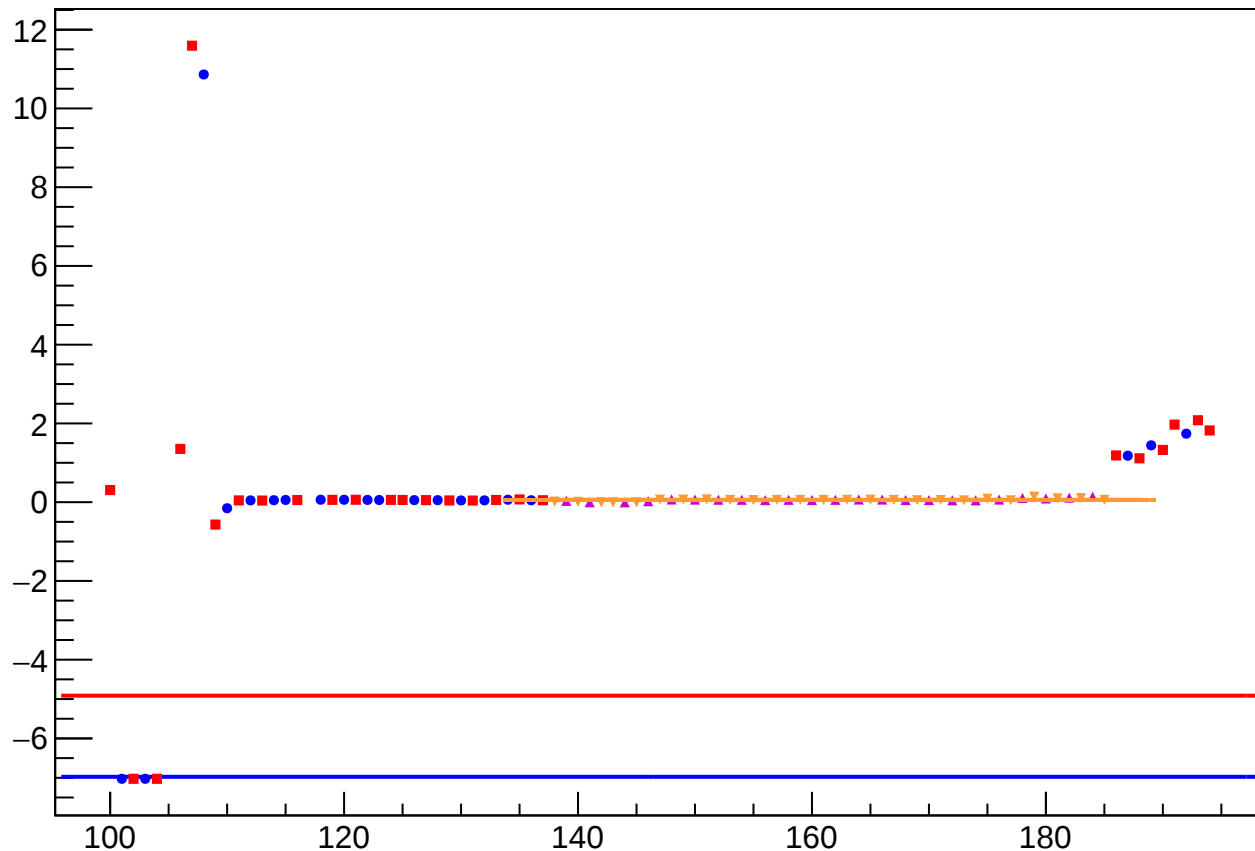
Right: 0.002+/-0.000 χ^2/NDF : 15622719.0/44

In: 0.001+/-0.000 χ^2/NDF :7812868.9/42

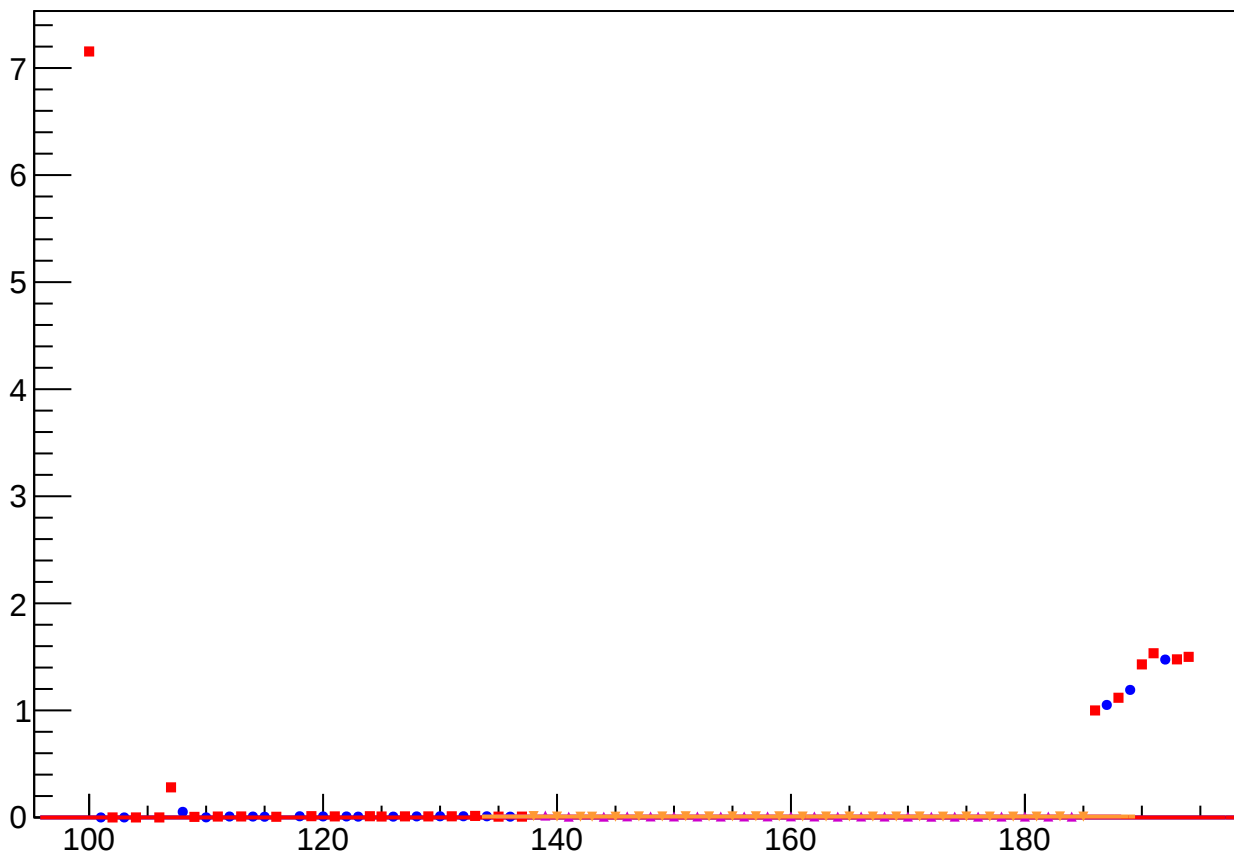
Out: 0.001+/-0.000 χ^2/NDF :12448997.2/49

All: 0.001+/-0.000 χ^2/NDF : 20264345.9/92

yield_cav4dX_mean vs Slug, Sign Corrected



yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11341686.2/19

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 15469399.9/24

Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

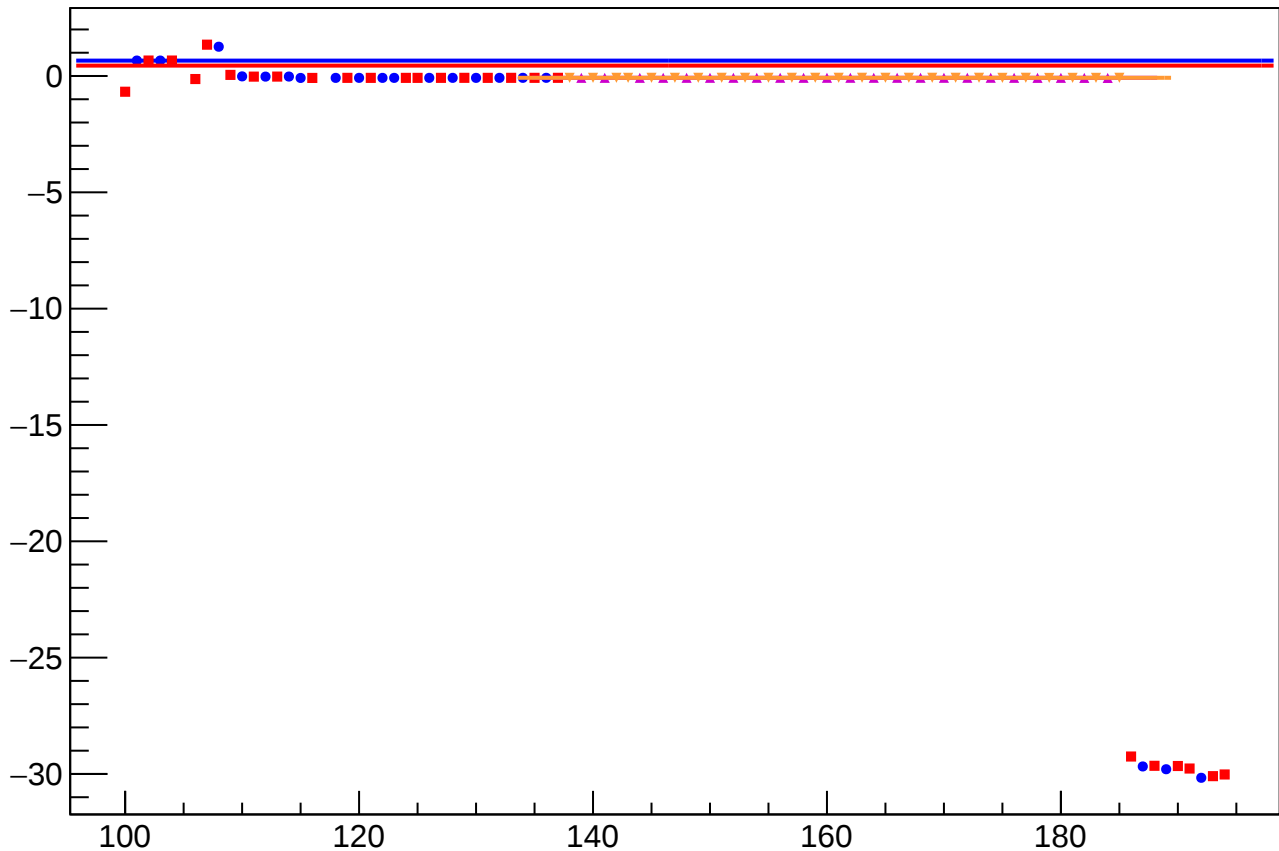
Right: 0.000+/-0.000 χ^2/NDF : 26811427.8/44

In: 0.000+/-0.000 χ^2/NDF : 38760389.3/42

Out: 0.000+/-0.000 χ^2/NDF : 44414088.9/49

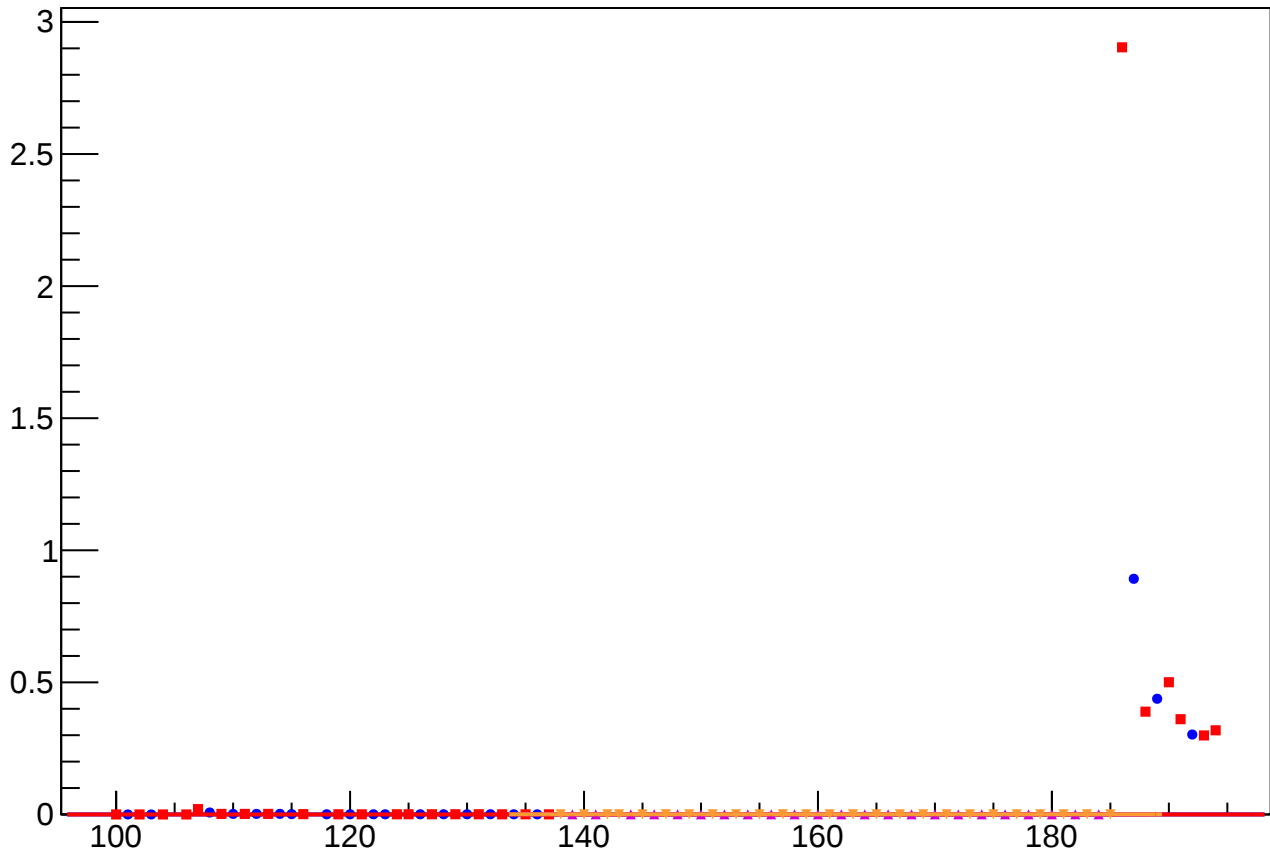
All: 0.000+/-0.000 χ^2/NDF : 83174935.8/92

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5670140036068.3/19	Left: -0.078+/-0.000	χ^2/NDF : 267206251.1/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156404795.7/24	Right: 0.549+/-0.000	χ^2/NDF : 474034705693103.0
Right Out: 0.446+/-0.000	χ^2/NDF : 405451206365016.3/24	In: 0.647+/-0.000	χ^2/NDF : 33710864340917.9/42
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420612309915987.1/4
		All: 0.537+/-0.000	χ^2/NDF : 51587916055276

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12893945.9/19

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 16035613.2/24

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

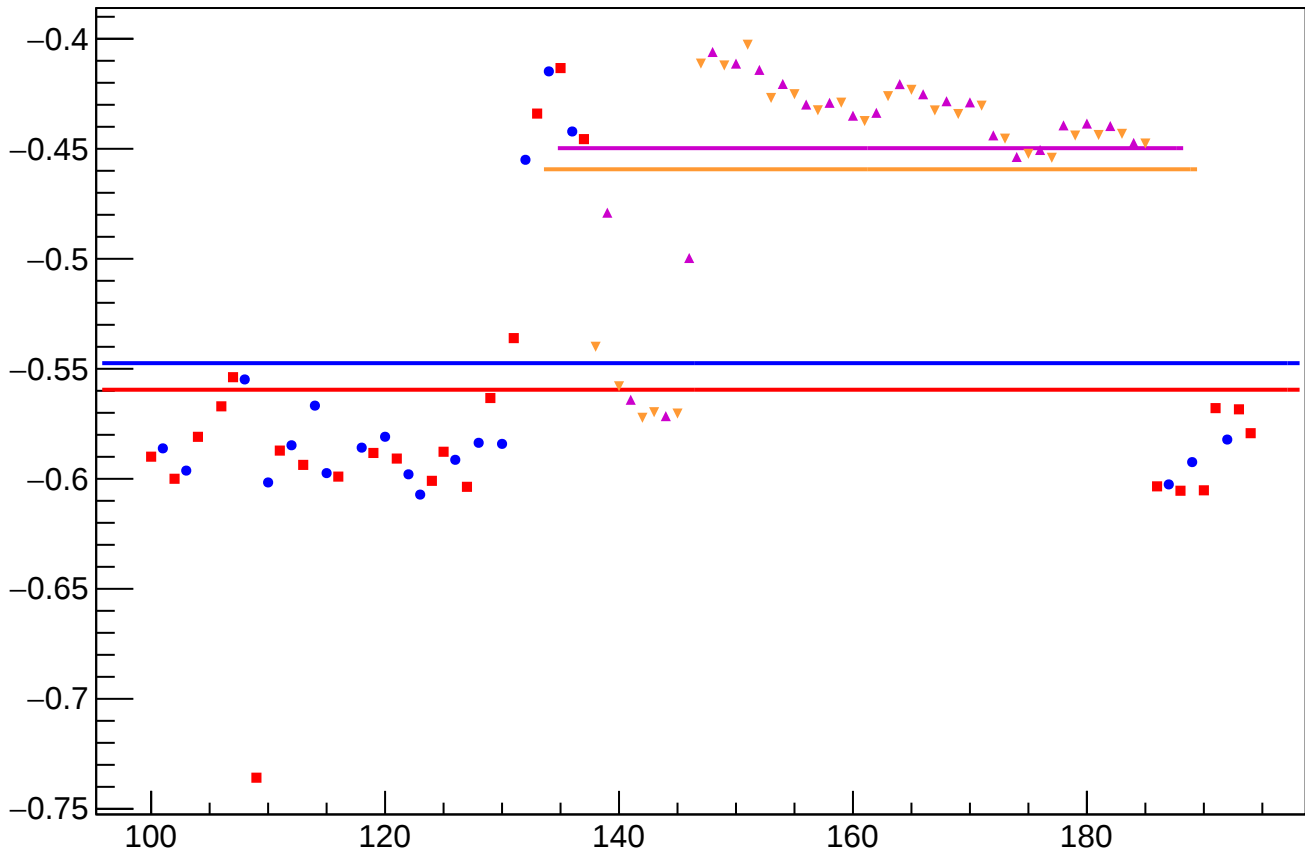
Right: 0.000+/-0.000 χ^2/NDF : 28929574.1/44

In: 0.000+/-0.000 χ^2/NDF : 43626908.2/42

Out: 0.000+/-0.000 χ^2/NDF : 48657288.6/49

All: 0.000+/-0.000 χ^2/NDF : 92284529.9/92

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547 ± 0.000 $\chi^2/\text{NDF}: 47158276.5/19$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 113602161.0/24$

Right Out: -0.560 ± 0.000 $\chi^2/\text{NDF}: 65598140.6/24$

Left In: -0.450 ± 0.000 $\chi^2/\text{NDF}: 76117957.8/22$

Left: -0.455 ± 0.000 $\chi^2/\text{NDF}: 191493218.8/47$

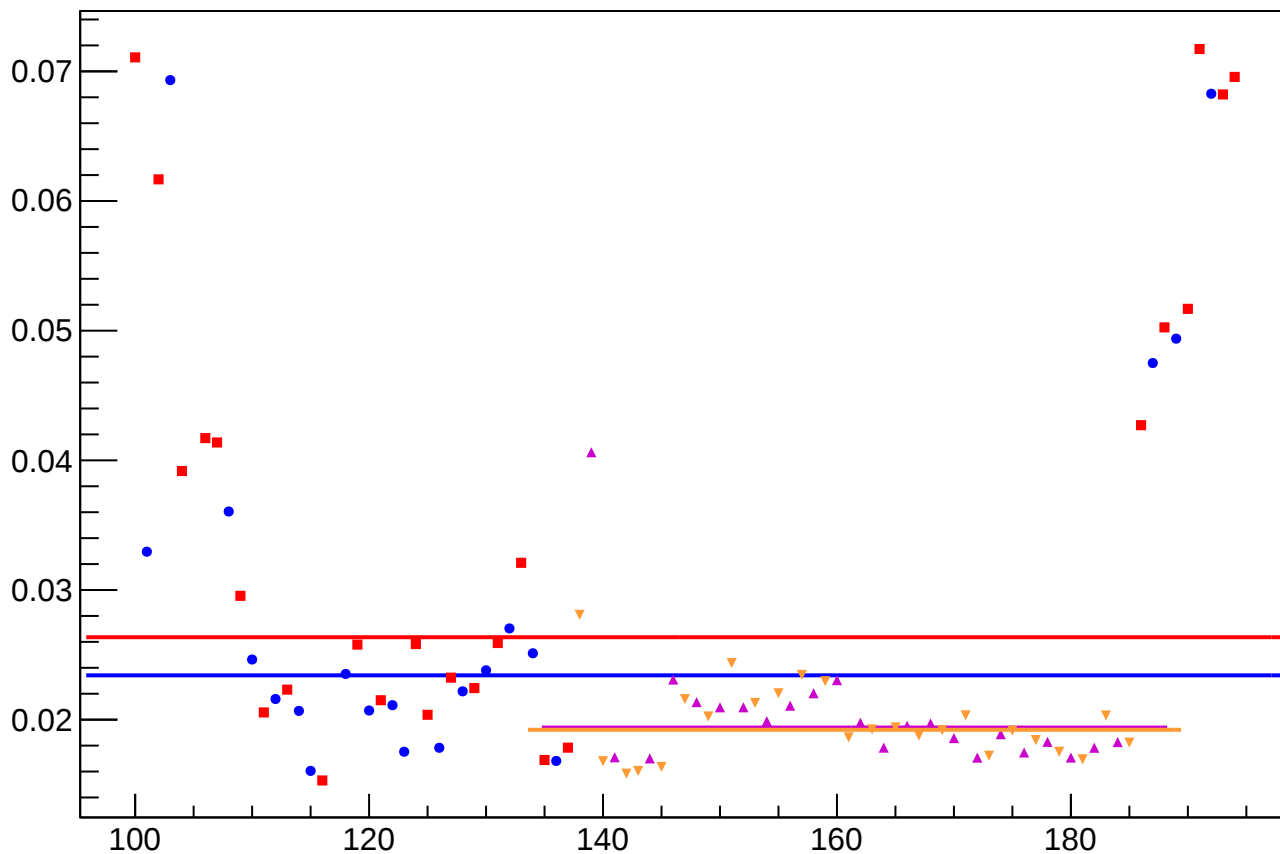
Right: -0.553 ± 0.000 $\chi^2/\text{NDF}: 113552513.5/44$

In: -0.472 ± 0.000 $\chi^2/\text{NDF}: 204134433.2/42$

Out: -0.481 ± 0.000 $\chi^2/\text{NDF}: 265003748.7/49$

All: -0.476 ± 0.000 $\chi^2/\text{NDF}: 470968162.1/92$

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2101580.8/19

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.026+/-0.000 χ^2/NDF : 3375005.3/24

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

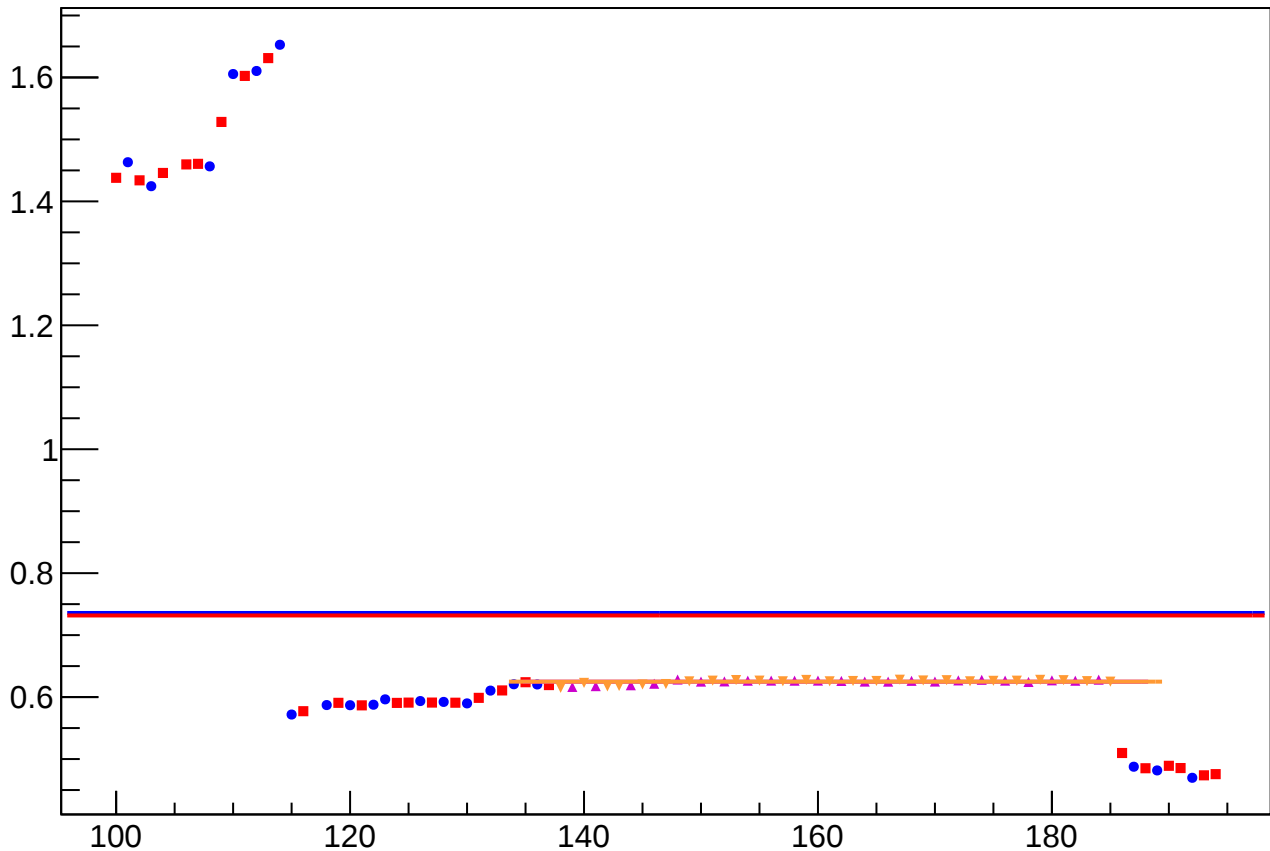
Right: 0.025+/-0.000 χ^2/NDF : 5570963.1/44

In: 0.020+/-0.000 χ^2/NDF : 3002455.9/42

Out: 0.021+/-0.000 χ^2/NDF : 4748135.6/49

All: 0.021+/-0.000 χ^2/NDF : 7759562.9/92

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.736 $\pm$ 0.000 χ^2 /NDF: 4050680870.5/19

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.732 $\pm$ 0.000 χ^2 /NDF: 5166037211.4/24

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2589565.7/47

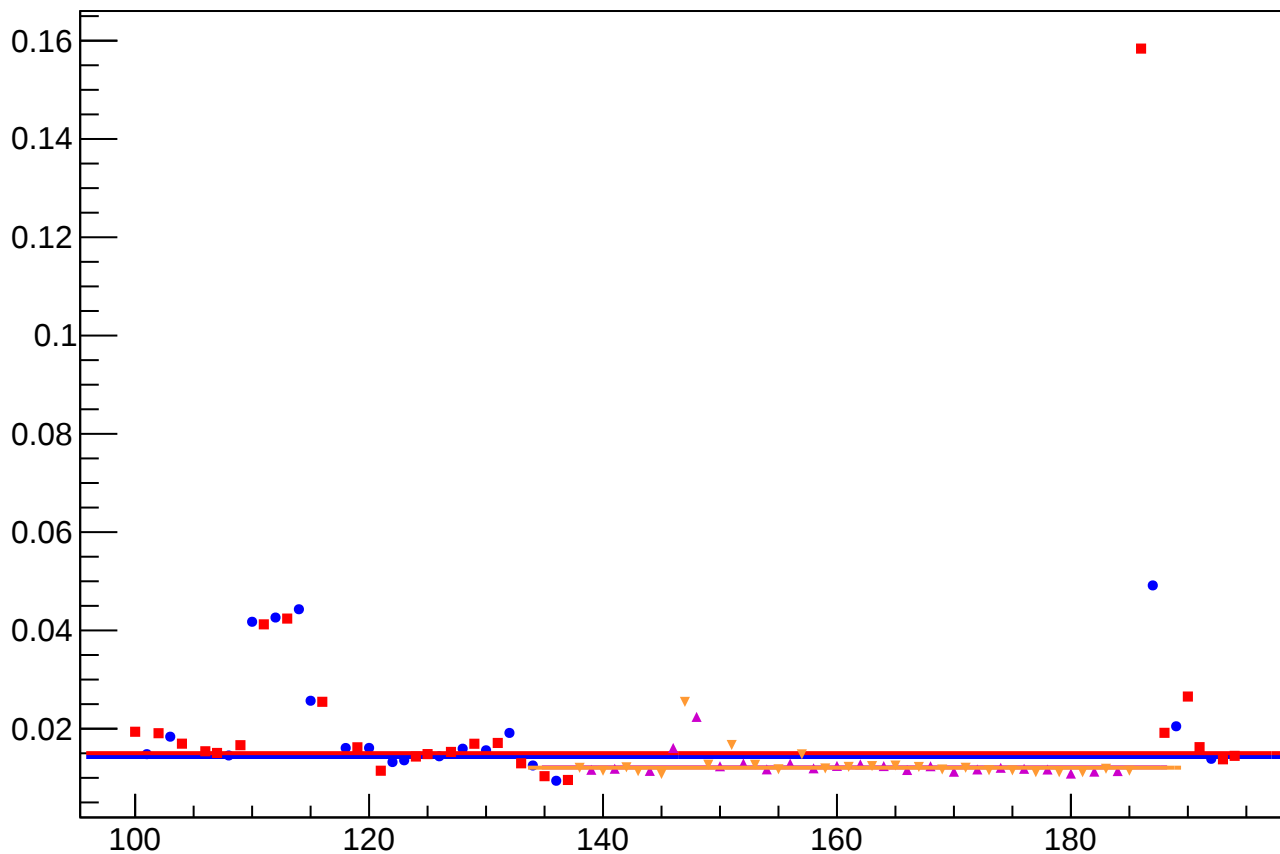
Right: 0.734 $\pm$ 0.000 χ^2 /NDF: 9217013623.7/44

In: 0.651 $\pm$ 0.000 χ^2 /NDF:4376713277.9/42

Out: 0.651 $\pm$ 0.000 χ^2 /NDF:5505052286.3/49

All: 0.651 $\pm$ 0.000 χ^2 /NDF: 9881774893.6/92

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1623164.0/19

Left Out: 0.012+/-0.000 χ^2/NDF : 657199.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2057483.2/24

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1146061.0/47

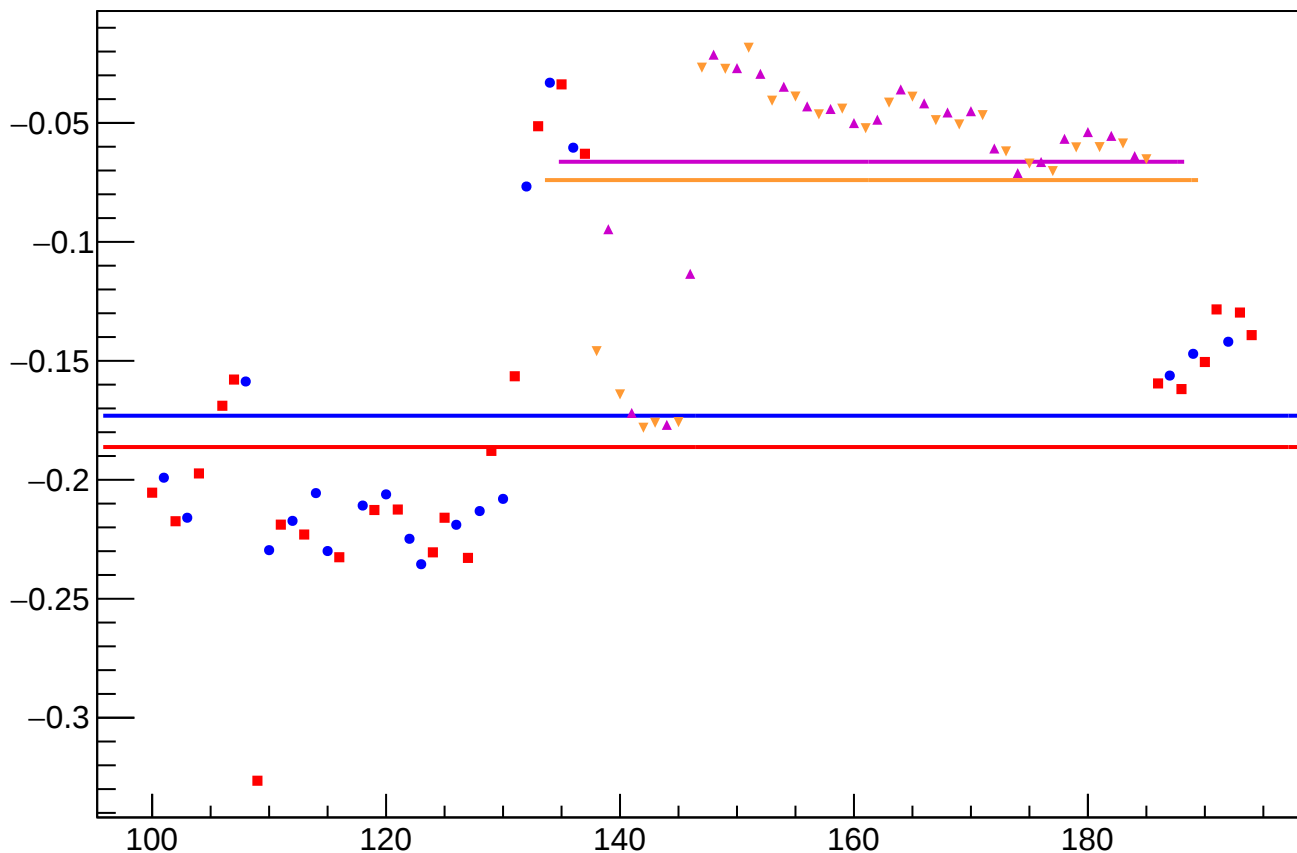
Right: 0.015+/-0.000 χ^2/NDF : 3703176.1/44

In: 0.013+/-0.000 χ^2/NDF : 2346118.6/42

Out: 0.013+/-0.000 χ^2/NDF : 3232034.1/49

All: 0.013+/-0.000 χ^2/NDF : 5582410.6/92

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.173+/-0.000 χ^2/NDF : 67108852.1/19

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.186+/-0.000 χ^2/NDF : 83619839.9/24

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

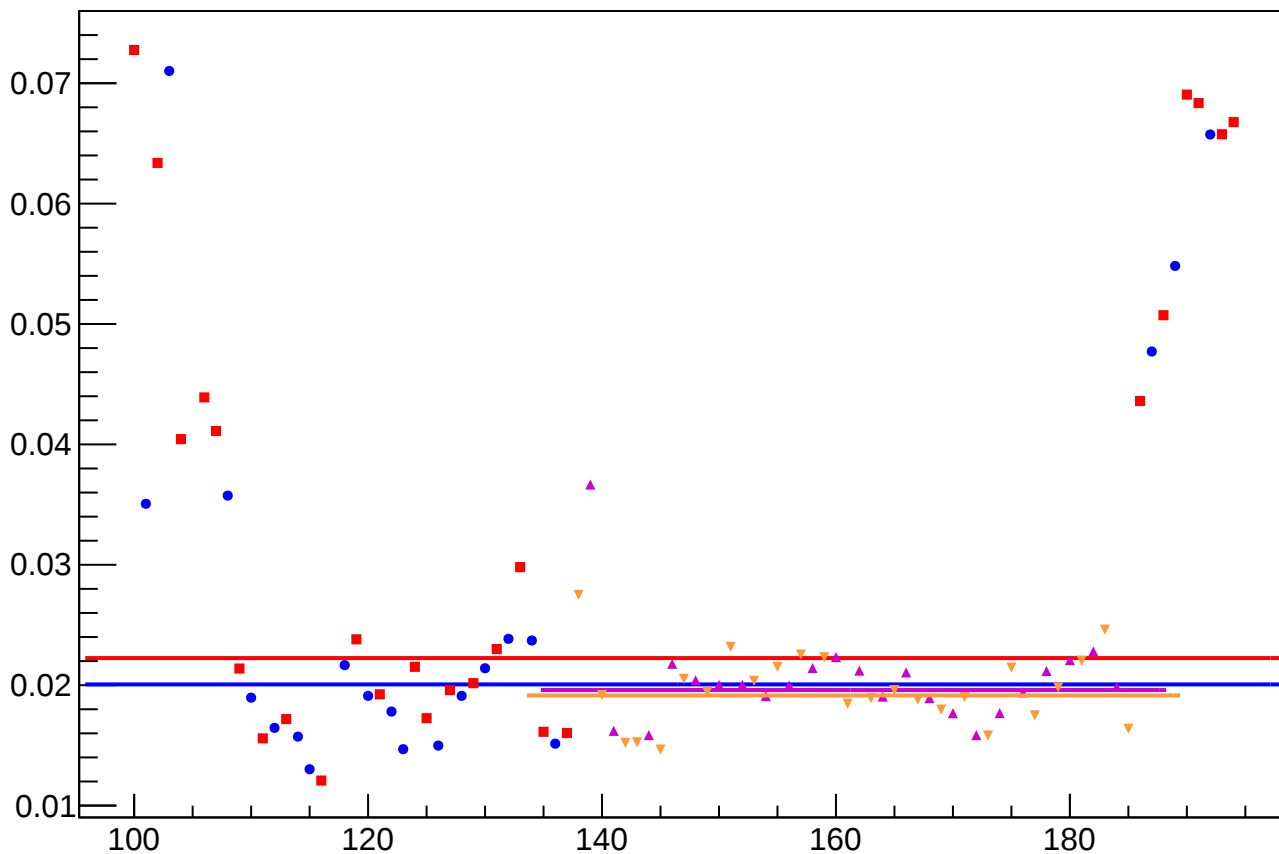
Right: -0.180+/-0.000 χ^2/NDF : 151977719.0/44

In: -0.096+/-0.000 χ^2/NDF : 261760909.9/42

Out: -0.103+/-0.000 χ^2/NDF : 325555528.0/49

All: -0.100+/-0.000 χ^2/NDF : 588596786.0/92

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2579432.1/19

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.022+/-0.000 χ^2/NDF : 4255494.3/24

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

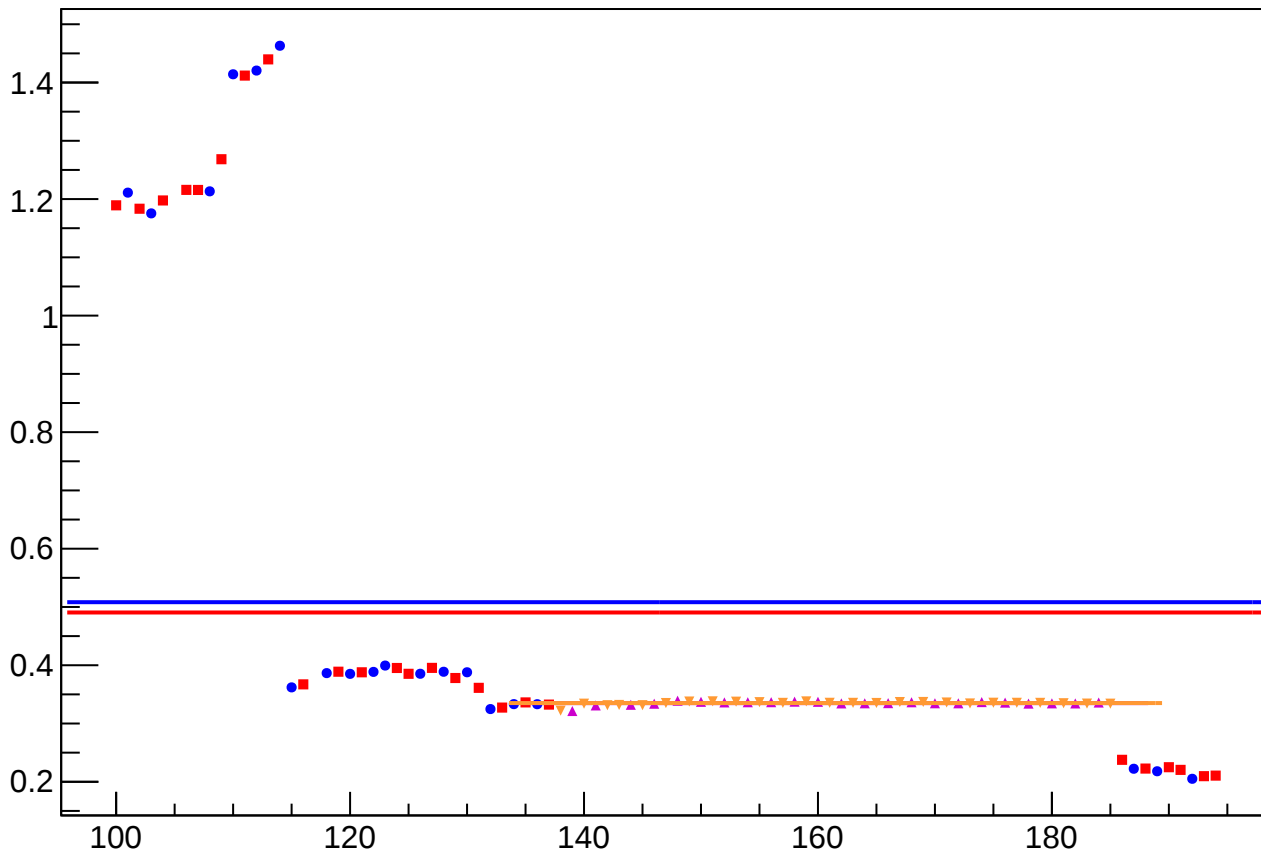
Right: 0.021+/-0.000 χ^2/NDF : 6903947.5/44

In: 0.020+/-0.000 χ^2/NDF : 3207098.3/42

Out: 0.020+/-0.000 χ^2/NDF : 5101992.0/49

All: 0.020+/-0.000 χ^2/NDF : 8311831.3/92

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.508+/-0.000 χ^2/NDF : 5805810427.7/19

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.491+/-0.000 χ^2/NDF : 7184261982.2/24

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

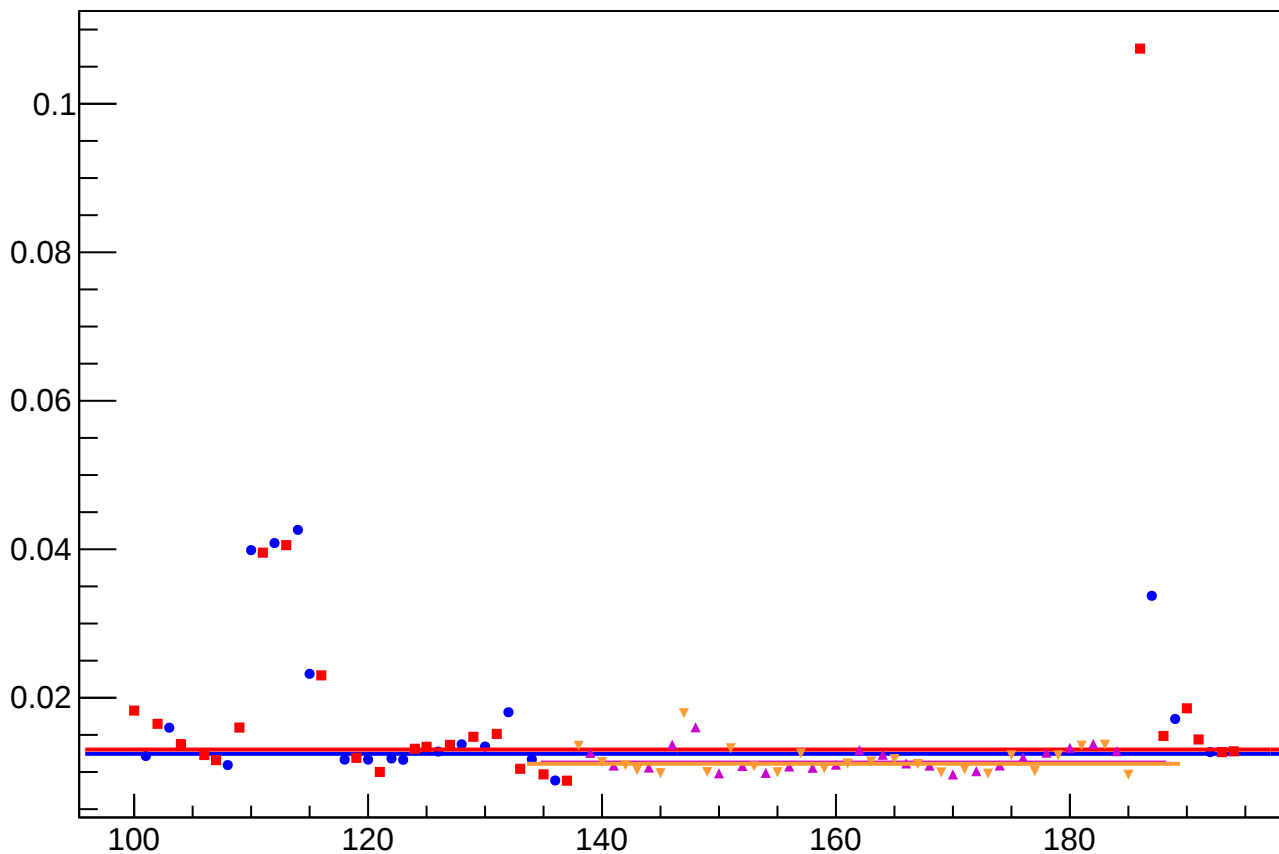
Right: 0.499+/-0.000 χ^2/NDF : 12997643924.8/44

In: 0.380+/-0.000 χ^2/NDF :6815207842.2/42

Out: 0.377+/-0.000 χ^2/NDF :8105118713.6/49

All: 0.378+/-0.000 χ^2/NDF : 14921119467.2/99

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1491966.3/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:607532.0/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1920158.1/24

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502455.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1113465.5/47

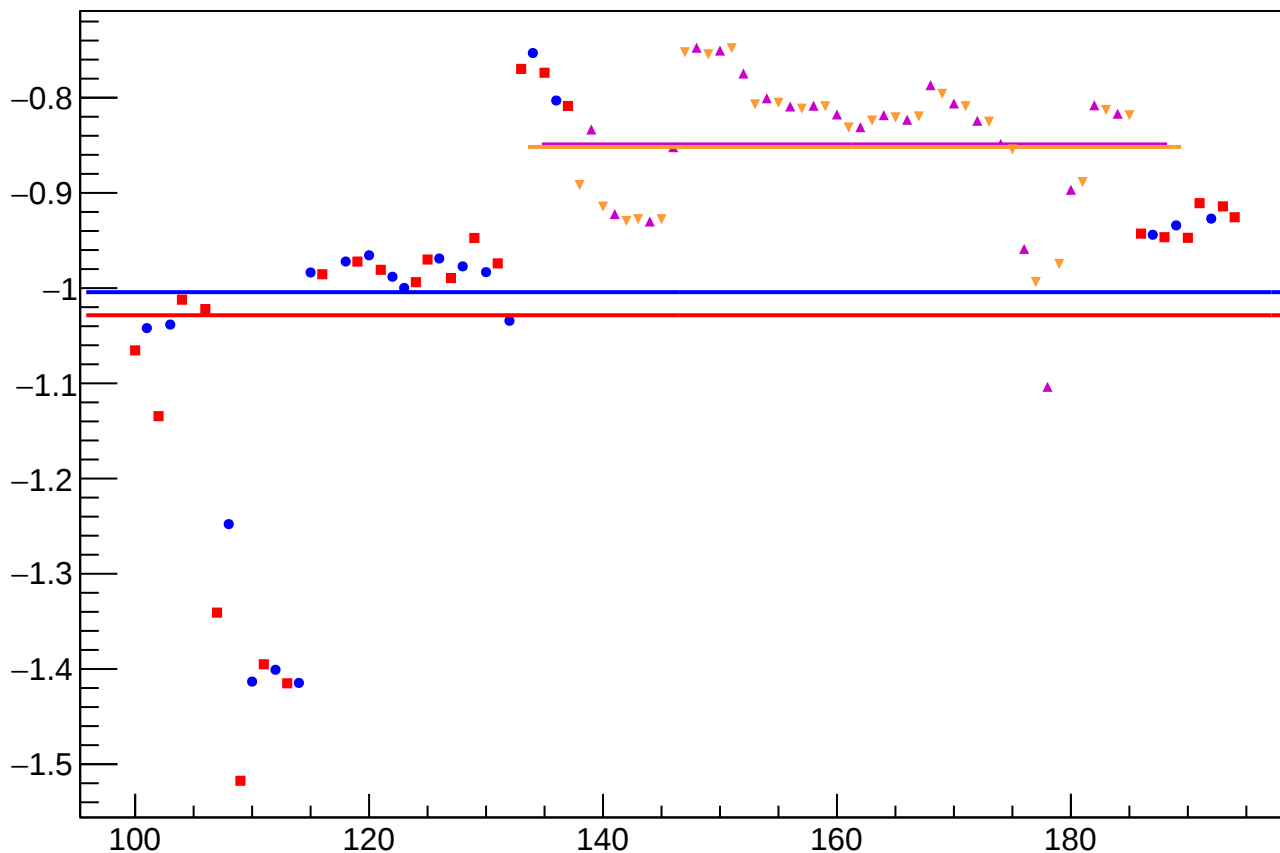
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3428163.7/44

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2088176.7/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2807277.6/49

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4895908.2/92

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 ± 0.000 χ^2/NDF : 396099140.6/19

Left Out: -0.852 ± 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.028 ± 0.000 χ^2/NDF : 546072448.3/24

Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 ± 0.000 χ^2/NDF : 445636655.2/47

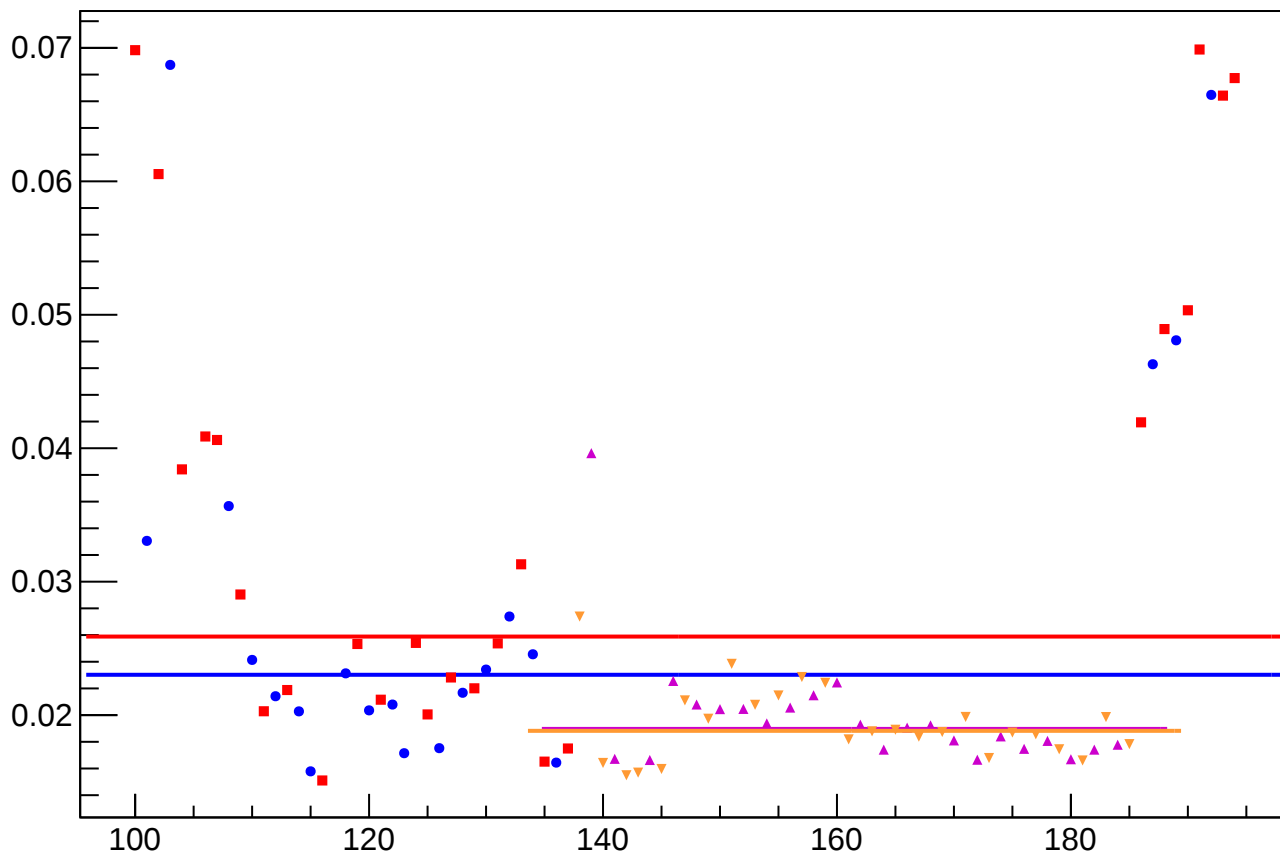
Right: -1.016 ± 0.000 χ^2/NDF : 945491172.9/44

In: -0.884 ± 0.000 χ^2/NDF : 863849910.1/42

Out: -0.889 ± 0.000 χ^2/NDF : 1012218535.7/49

All: -0.887 ± 0.000 χ^2/NDF : 1876714529.5/99

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2113527.2/19

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.026+/-0.000 χ^2/NDF : 3347390.4/24

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

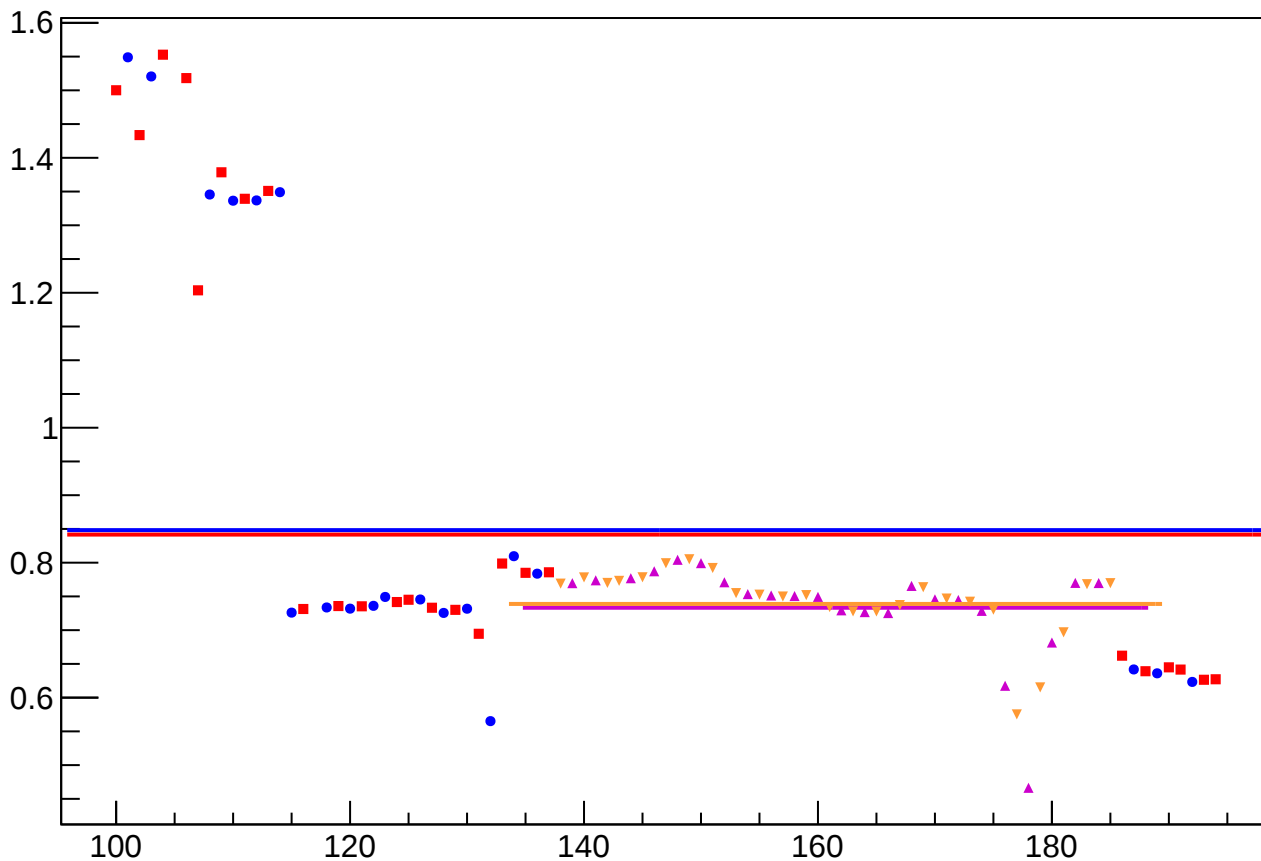
Right: 0.024+/-0.000 χ^2/NDF : 5553637.1/44

In: 0.020+/-0.000 χ^2/NDF : 3017633.6/42

Out: 0.020+/-0.000 χ^2/NDF : 4723244.2/49

All: 0.020+/-0.000 χ^2/NDF : 7750659.2/92

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.848 $\pm$ 0.000 χ^2 /NDF: 2740889334.7/19

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.842 $\pm$ 0.000 χ^2 /NDF: 3136557632.7/24

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 904456968.5/47

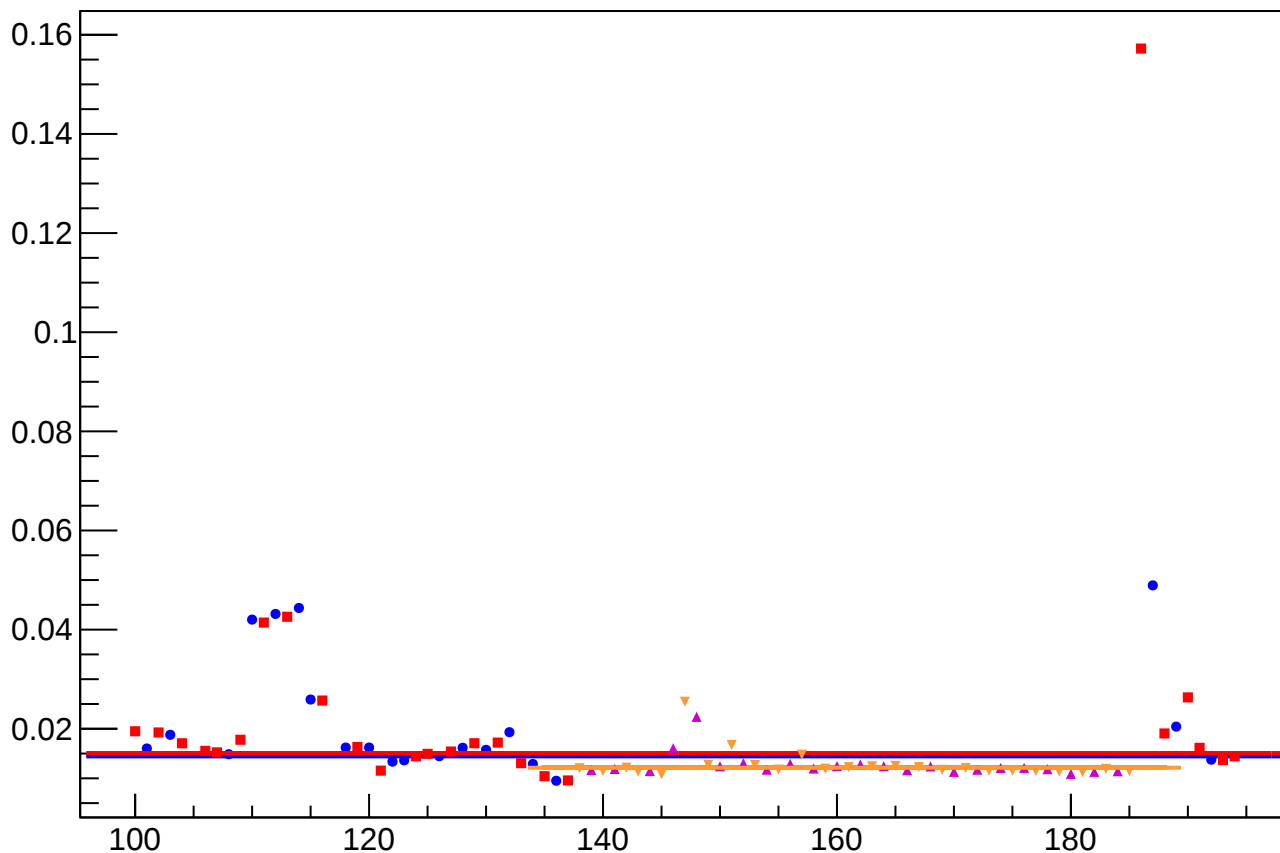
Right: 0.845 $\pm$ 0.000 χ^2 /NDF: 5878227483.0/44

In: 0.760 $\pm$ 0.000 χ^2 /NDF:3651215333.8/42

Out: 0.764 $\pm$ 0.000 χ^2 /NDF:3778095572.5/49

All: 0.762 $\pm$ 0.000 χ^2 /NDF: 7430753342.2/92

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1627393.6/19

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2057469.0/24

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

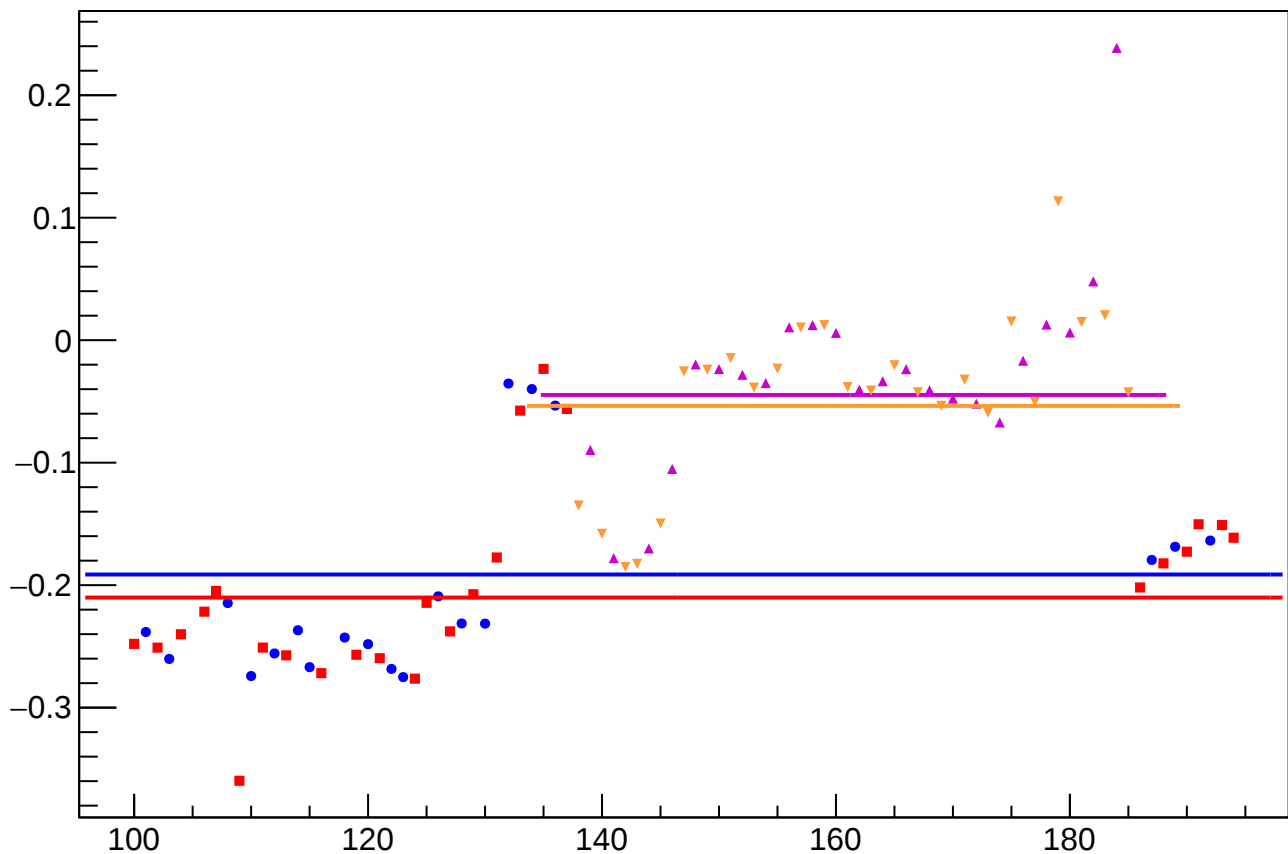
Right: 0.015+/-0.000 χ^2/NDF : 3701616.4/44

In: 0.013+/-0.000 χ^2/NDF : 2366586.0/42

Out: 0.013+/-0.000 χ^2/NDF : 3210789.9/49

All: 0.013+/-0.000 χ^2/NDF : 5581335.3/92

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191+/-0.000 χ^2/NDF : 106448170.8/19

Left Out: -0.054+/-0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.210+/-0.000 χ^2/NDF : 112171991.9/24

Left In: -0.045+/-0.000 χ^2/NDF : 127192425.2/22

Left: -0.049+/-0.000 χ^2/NDF : 296566503.6/47

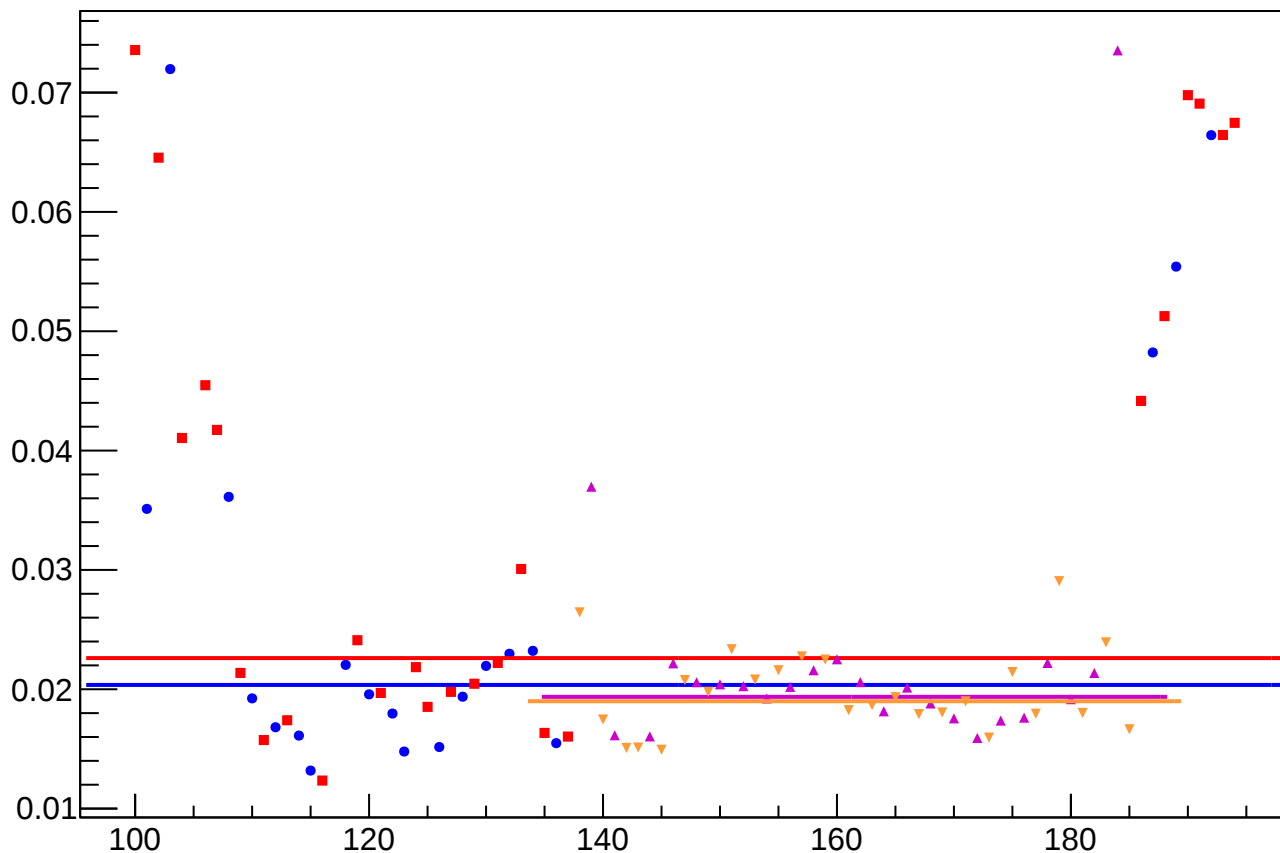
Right: -0.201+/-0.000 χ^2/NDF : 221100203.2/44

In: -0.085+/-0.000 χ^2/NDF : 452213463.3/42

Out: -0.094+/-0.000 χ^2/NDF : 533967642.0/49

All: -0.090+/-0.000 χ^2/NDF : 988153875.5/92

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2545014.7/19

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4230951.6/24

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

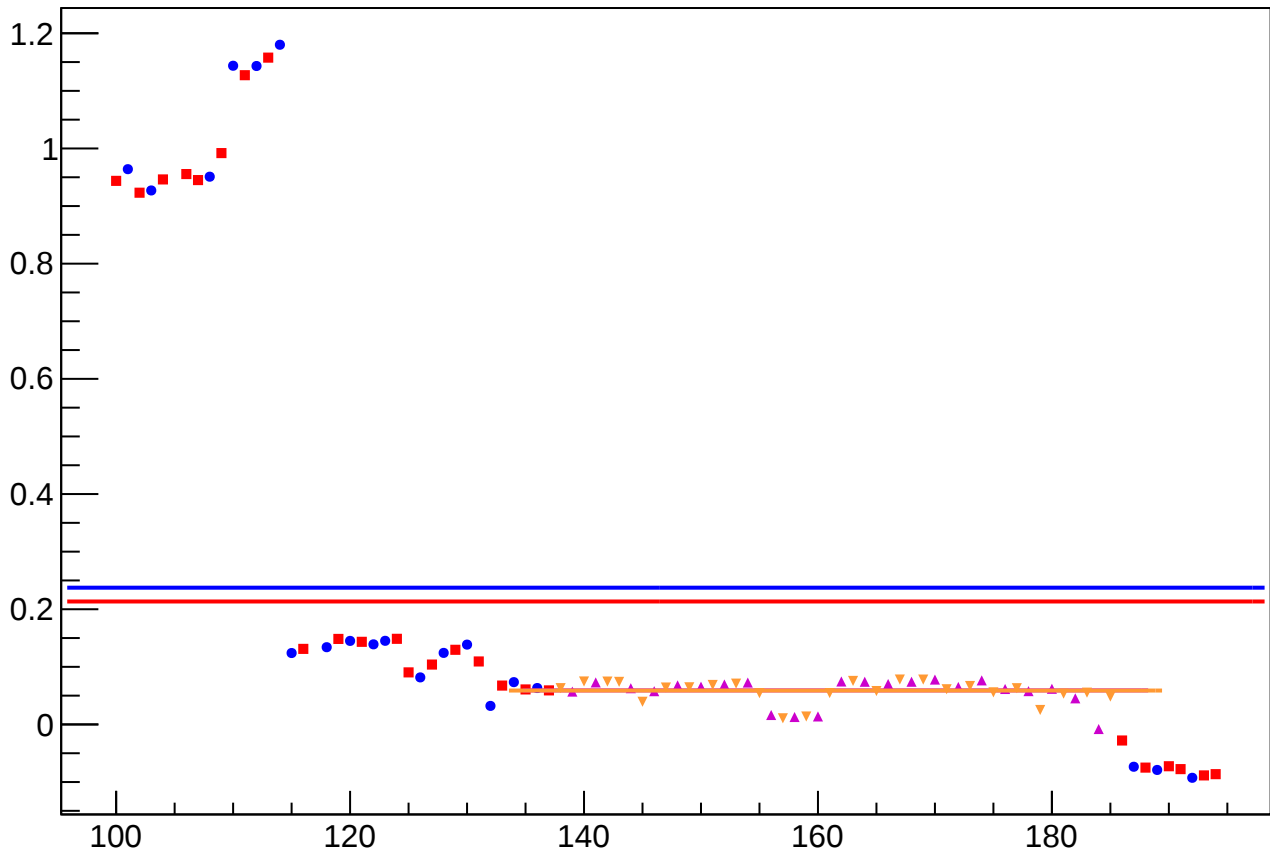
Right: 0.021+/-0.000 χ^2/NDF : 6846729.8/44

In: 0.020+/-0.000 χ^2/NDF : 3423468.1/42

Out: 0.020+/-0.000 χ^2/NDF : 5202252.6/49

All: 0.020+/-0.000 χ^2/NDF : 8629934.7/92

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.000 χ^2 /NDF: 6104295143.1/19

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.213 $\pm$ 0.000 χ^2 /NDF: 7446303453.9/24

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105343775.2/47

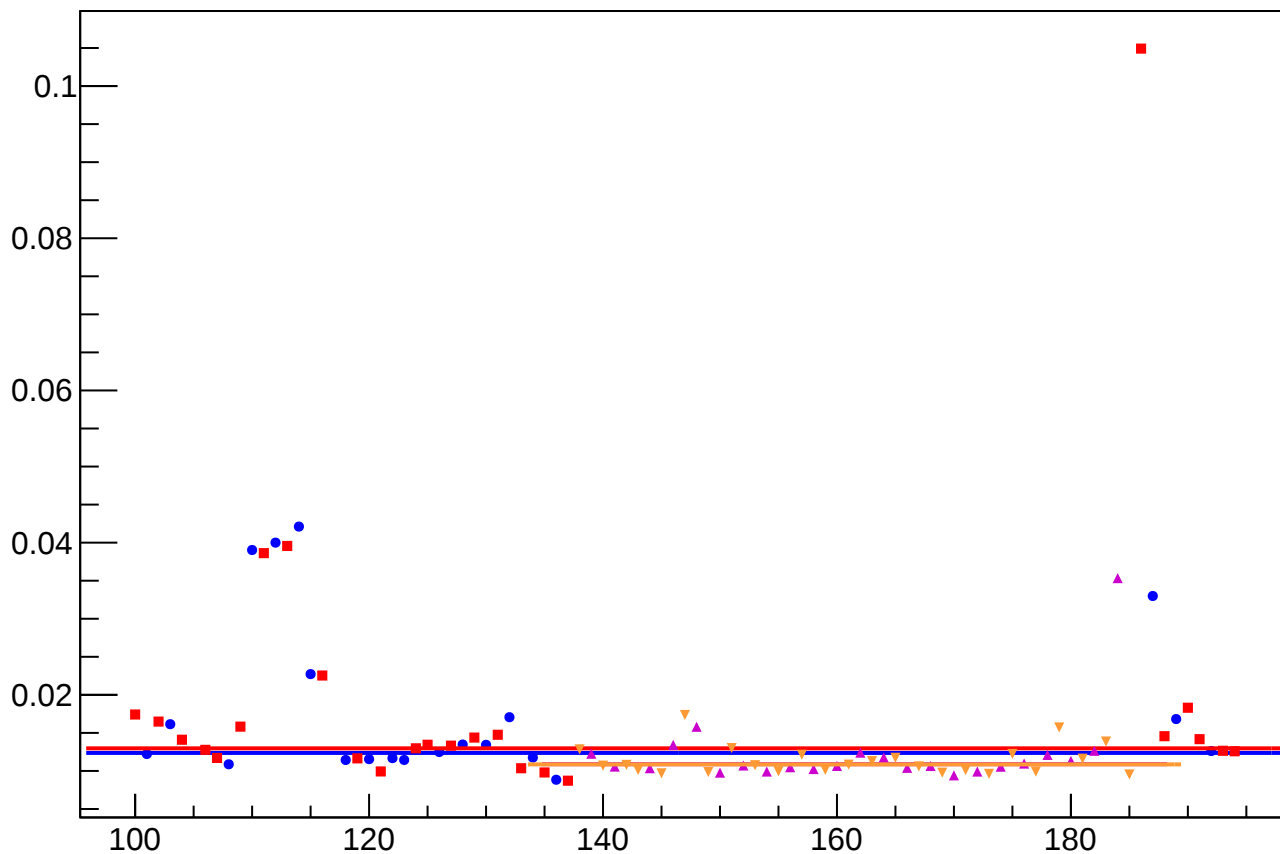
Right: 0.225 $\pm$ 0.000 χ^2 /NDF: 13564706240.2/44

In: 0.104 $\pm$ 0.000 χ^2 /NDF: 7256818130.5/42

Out: 0.100 $\pm$ 0.000 χ^2 /NDF: 8413946100.8/49

All: 0.102 $\pm$ 0.000 χ^2 /NDF: 15672281760.4/99

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1458189.5/19

Left Out: 0.011+/-0.000 χ^2/NDF :604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1874050.5/24

Left In: 0.011+/-0.000 χ^2/NDF :530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

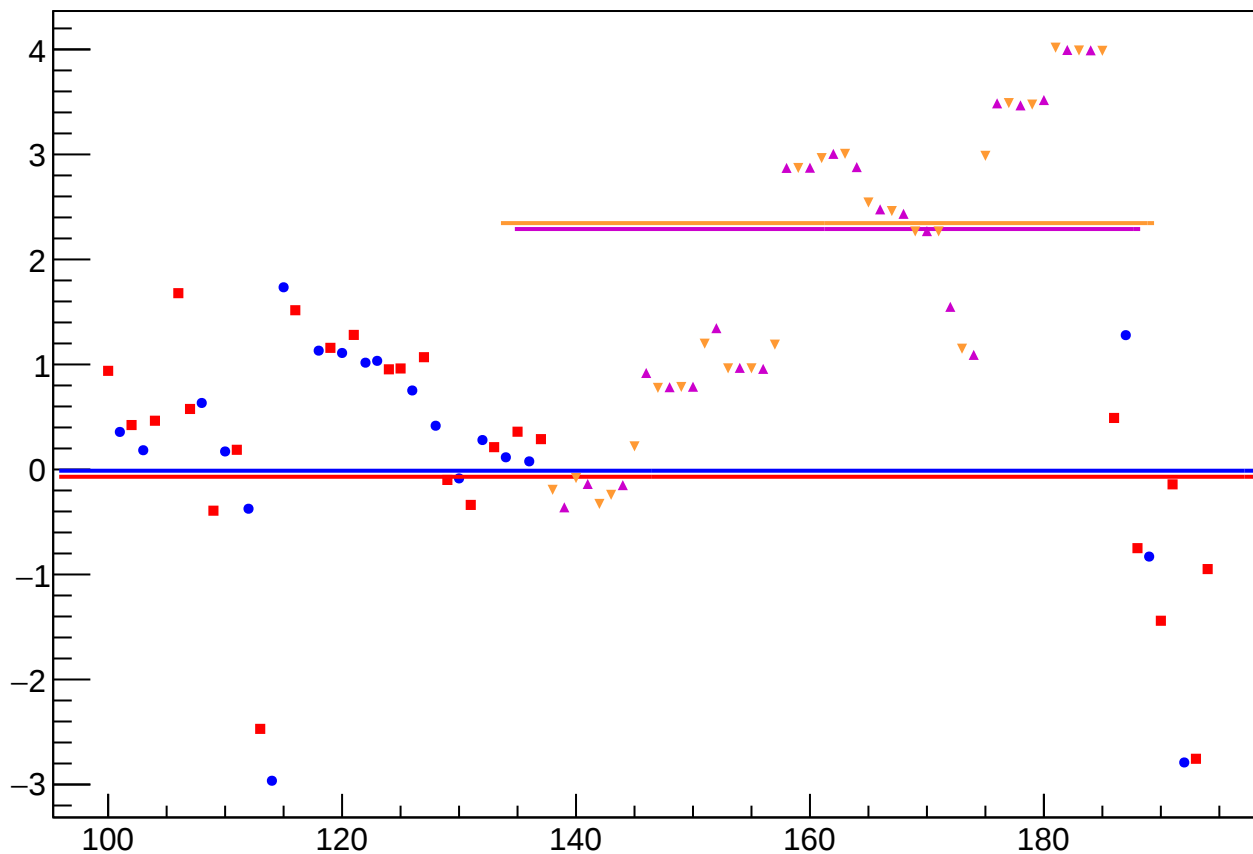
Right: 0.013+/-0.000 χ^2/NDF : 3350082.3/44

In: 0.011+/-0.000 χ^2/NDF :2138330.7/42

Out: 0.011+/-0.000 χ^2/NDF :2821891.3/49

All: 0.011+/-0.000 χ^2/NDF : 4965082.4/92

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.012+/-0.000 χ^2/NDF : 2539832668.4/19

Left Out: 2.346+/-0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.070+/-0.000 χ^2/NDF : 3272515170.4/24

Left In: 2.290+/-0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318+/-0.000 χ^2/NDF : 124438674298.4/47

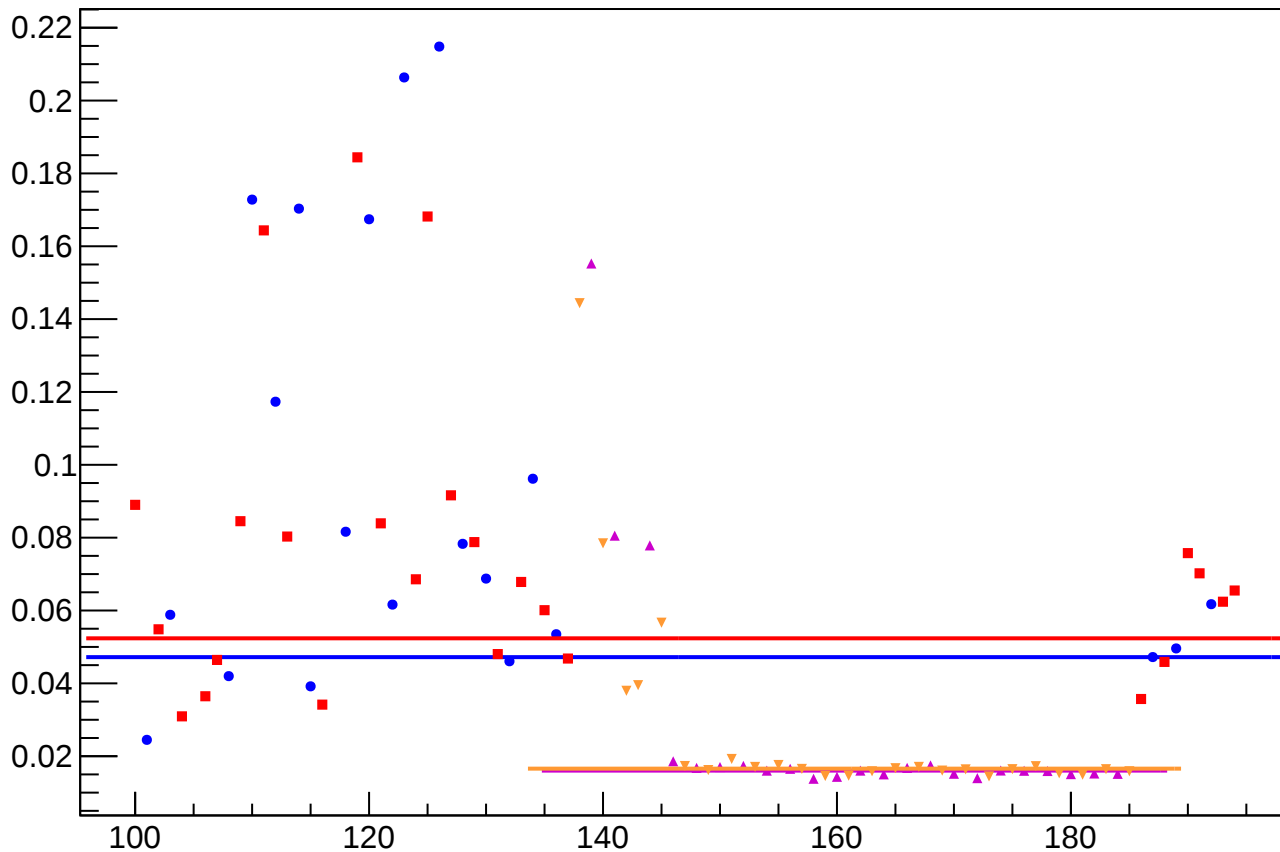
Right: -0.043+/-0.000 χ^2/NDF : 5816329855.8/44

In: 2.195+/-0.000 χ^2/NDF : 74645457190.8/42

Out: 2.228+/-0.000 χ^2/NDF : 81269091726.6/49

All: 2.212+/-0.000 χ^2/NDF : 155943122869.9

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 2947330.3/19

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 2550459.3/24

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5030430.5/47

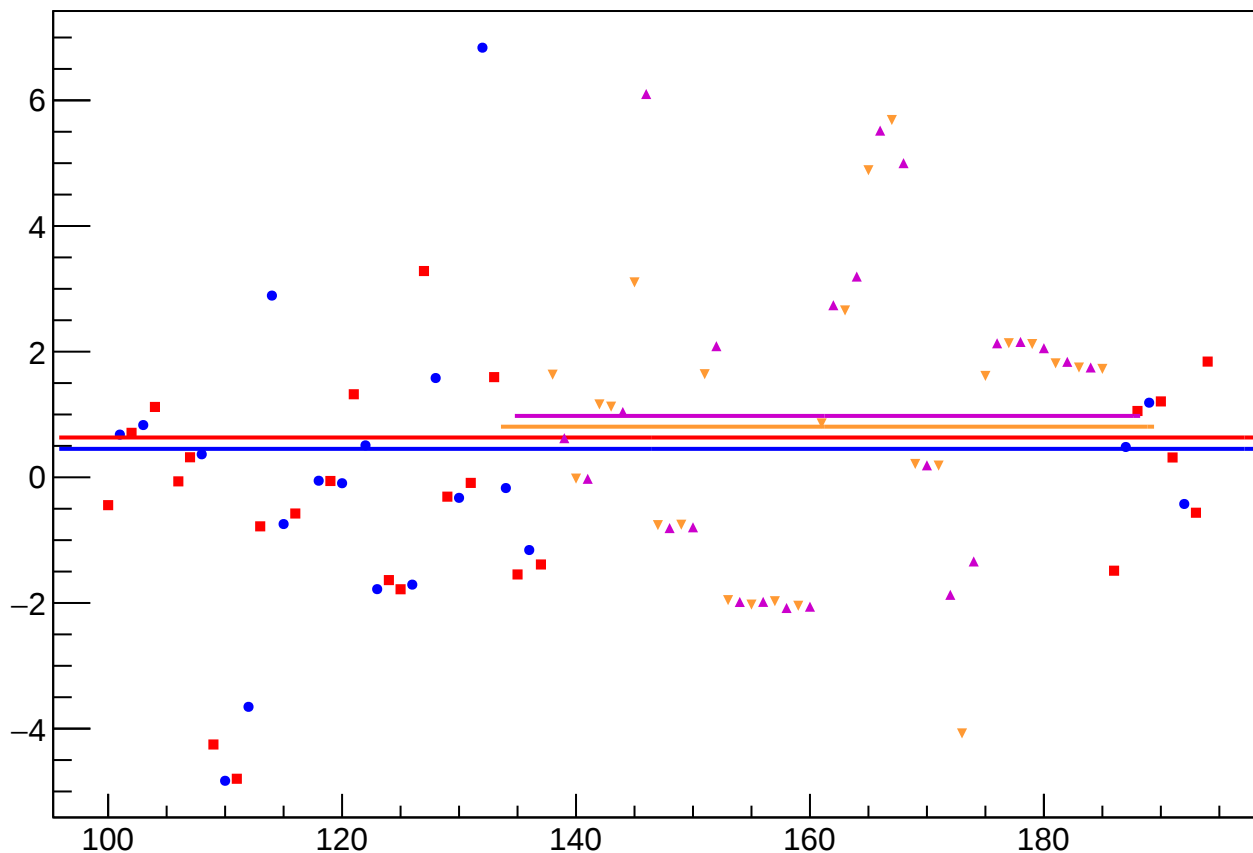
Right: 0.050 $\pm$ 0.000 χ^2 /NDF: 5561689.4/44

In: 0.017 $\pm$ 0.000 χ^2 /NDF:9456869.2/42

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:11540294.7/49

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 21052211.4/92

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.453+/-0.000

χ^2/NDF : 13751127068.2/19

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right Out: 0.634+/-0.000

χ^2/NDF : 11012433135.0/24

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Right: 0.556+/-0.000

χ^2/NDF : 24896858306.8/44

In: 0.937+/-0.000

χ^2/NDF : 583774529162.1/42

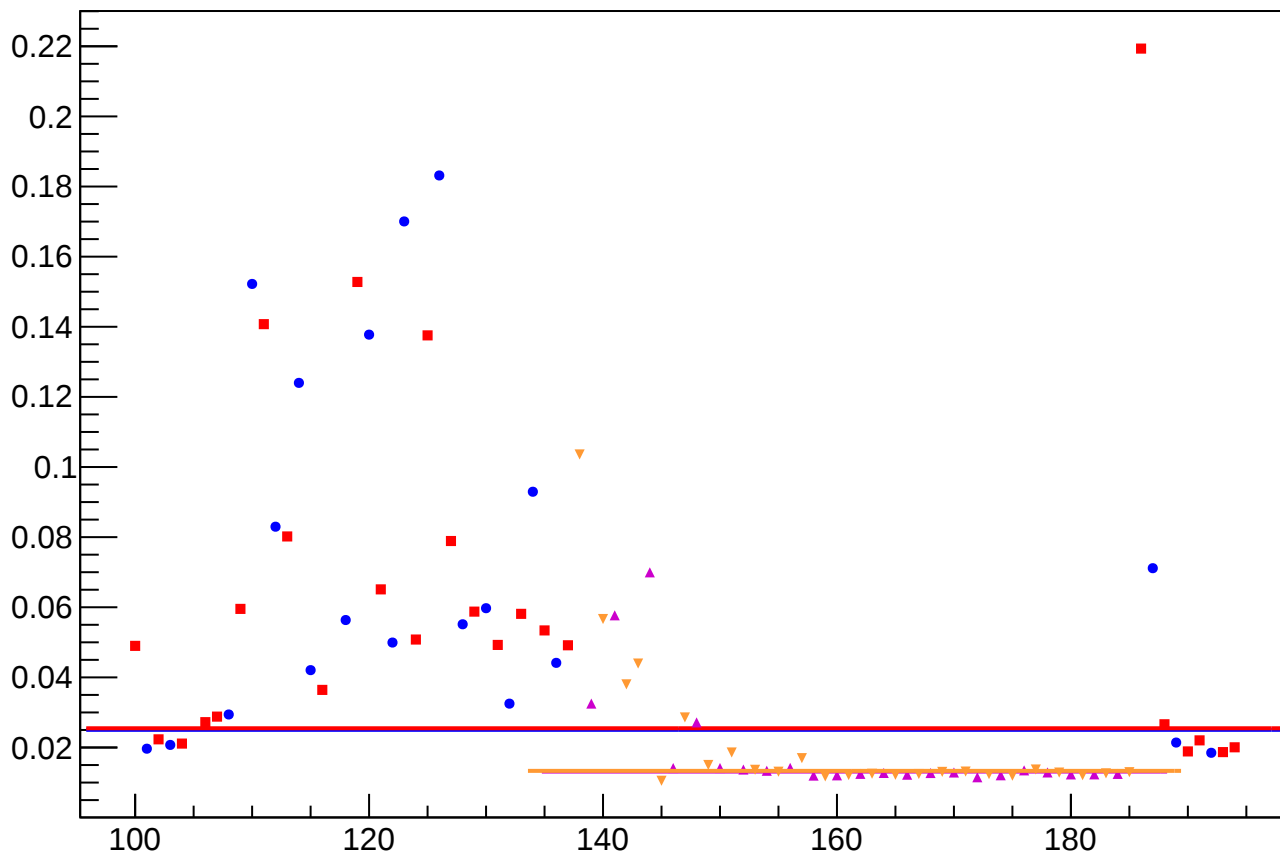
Out: 0.789+/-0.000

χ^2/NDF : 518842448827.4/49

All: 0.862+/-0.000

χ^2/NDF : 1103637327418.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 3525564.2/19

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.025+/-0.000 χ^2/NDF : 4392595.2/24

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

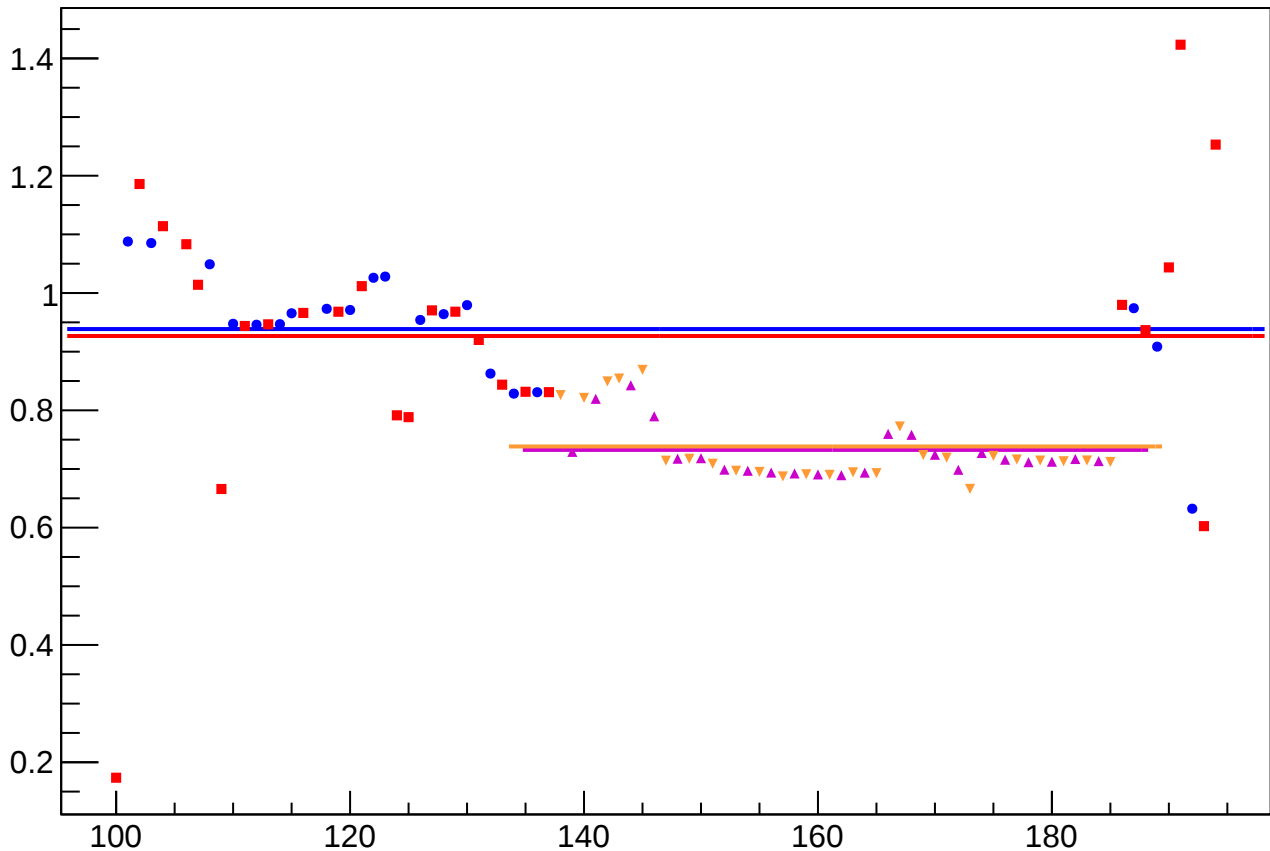
Right: 0.025+/-0.000 χ^2/NDF : 7919794.3/44

In: 0.014+/-0.000 χ^2/NDF : 7340610.4/42

Out: 0.015+/-0.000 χ^2/NDF : 9727849.0/49

All: 0.014+/-0.000 χ^2/NDF : 17091233.8/92

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.939 $\pm$ 0.000 χ^2 /NDF: 299116426.0/19

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310195180.4/24

Right Out: 0.927 $\pm$ 0.000 χ^2 /NDF: 660597095.1/24

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 481708989.2/47

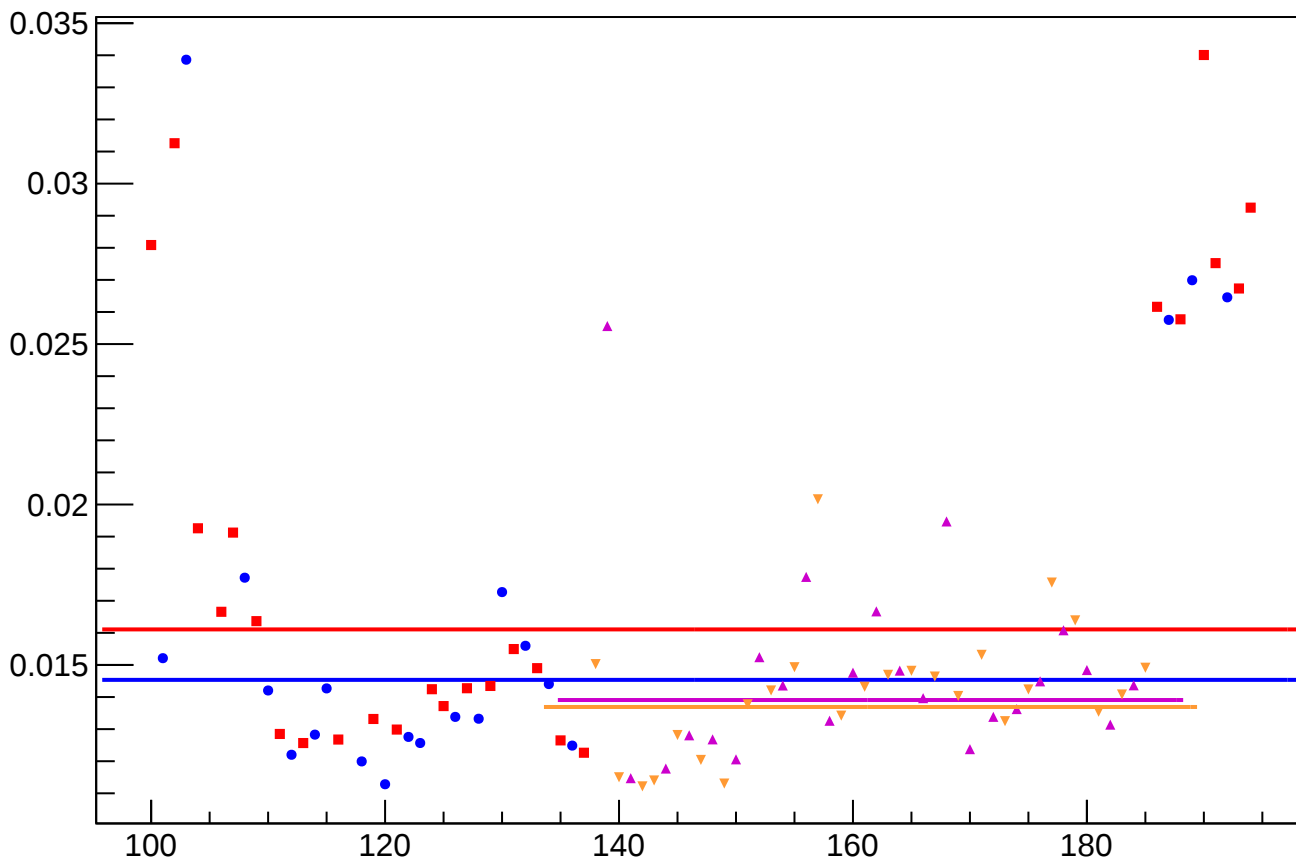
Right: 0.933 $\pm$ 0.000 χ^2 /NDF: 962035243.6/44

In: 0.793 $\pm$ 0.000 χ^2 /NDF:1458662310.1/42

Out: 0.791 $\pm$ 0.000 χ^2 /NDF:1829017873.4/49

All: 0.792 $\pm$ 0.000 χ^2 /NDF: 3287817475.5/92

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1196865.0/19

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1843170.5/24

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

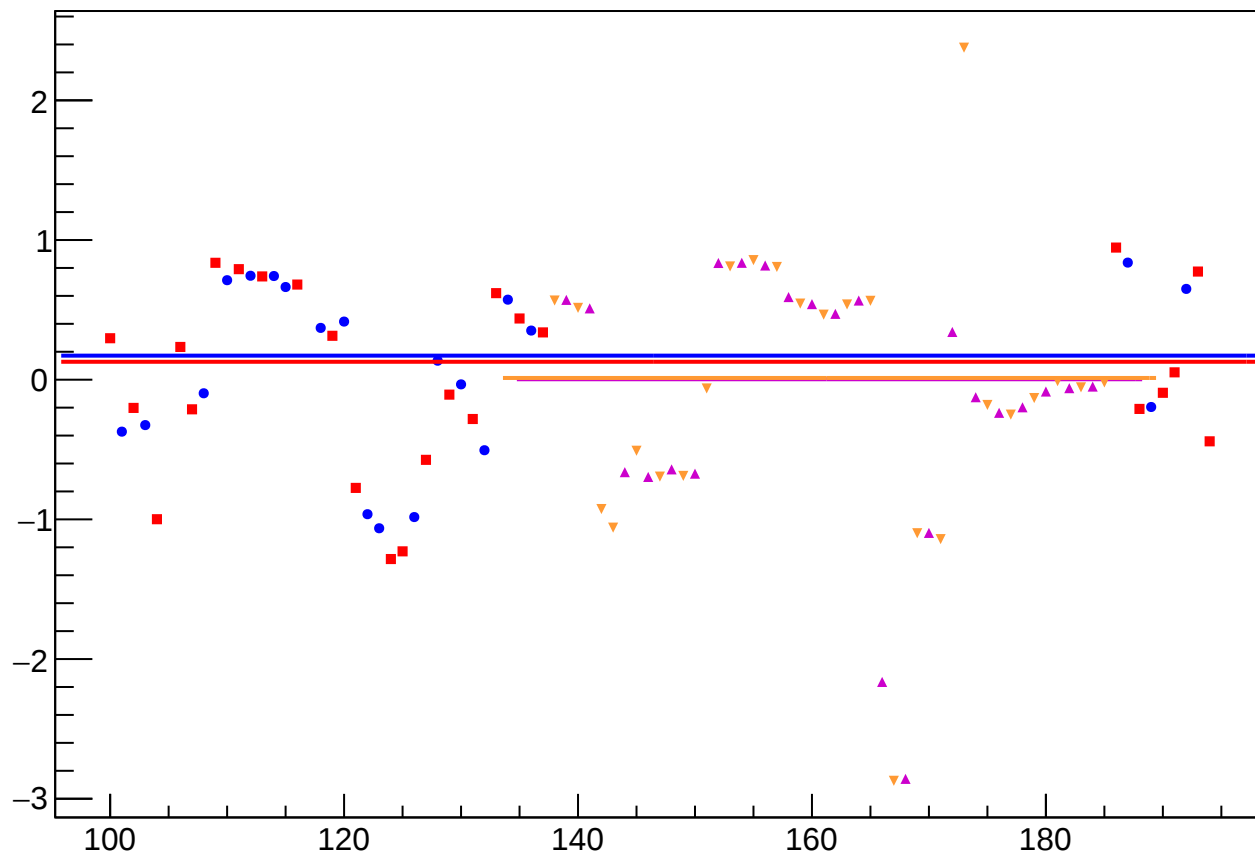
Right: 0.015+/-0.000 χ^2/NDF : 3122291.9/44

In: 0.014+/-0.000 χ^2/NDF : 1983406.5/42

Out: 0.014+/-0.000 χ^2/NDF : 2654381.5/49

All: 0.014+/-0.000 χ^2/NDF : 4646706.2/92

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.000 χ^2 /NDF: 9250542995.4/19

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 96383858927.1/24

Right Out: 0.128 $\pm$ 0.000 χ^2 /NDF: 18031170260.1/24

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 78826489573.0/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 175214894006.3/47

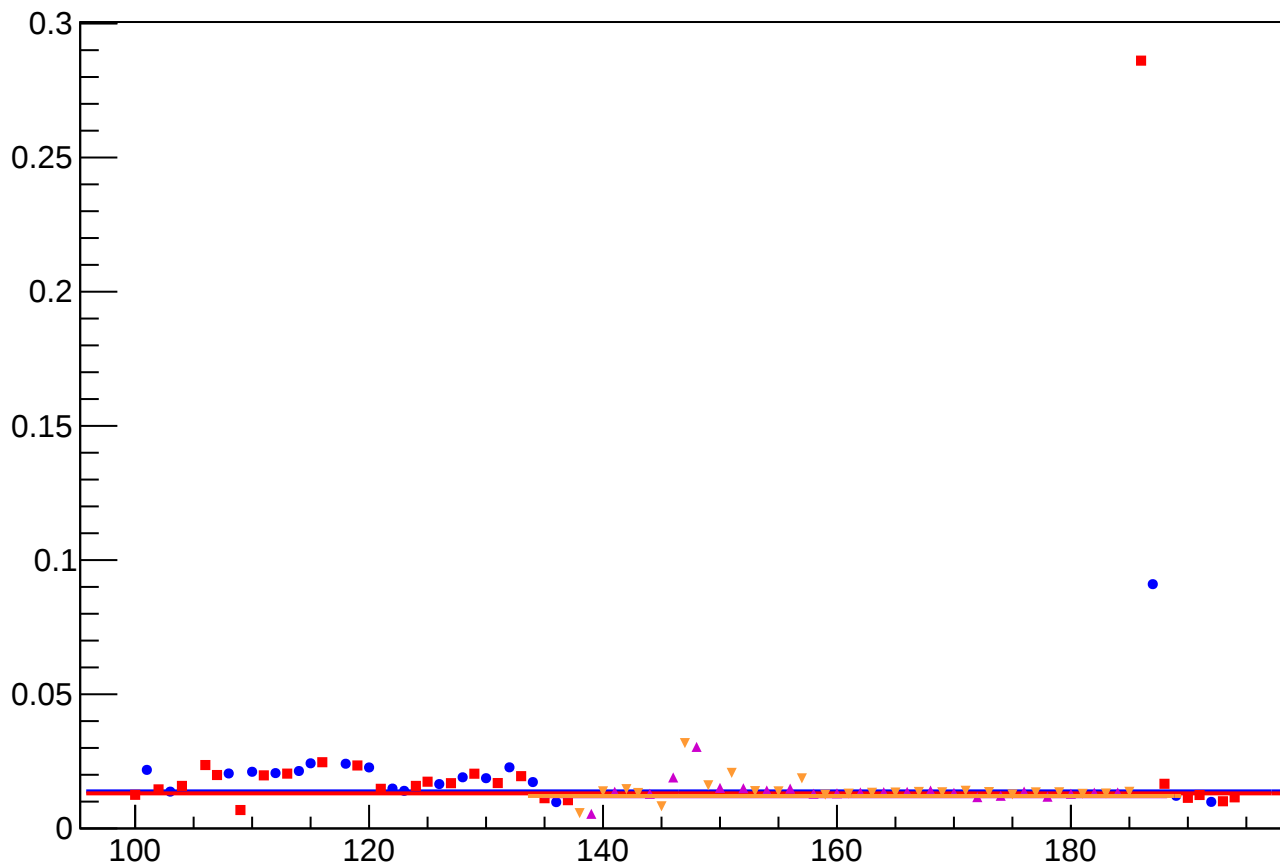
Right: 0.147 $\pm$ 0.000 χ^2 /NDF: 27320890444.7/44

In: 0.046 $\pm$ 0.000 χ^2 /NDF: 88831518830.2/42

Out: 0.048 $\pm$ 0.000 χ^2 /NDF: 114861948376.4/49

All: 0.047 $\pm$ 0.000 χ^2 /NDF: 203693721436.3

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1778830.9/19

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3105238.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2456137.1/24

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3003502.9/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6110012.2/47

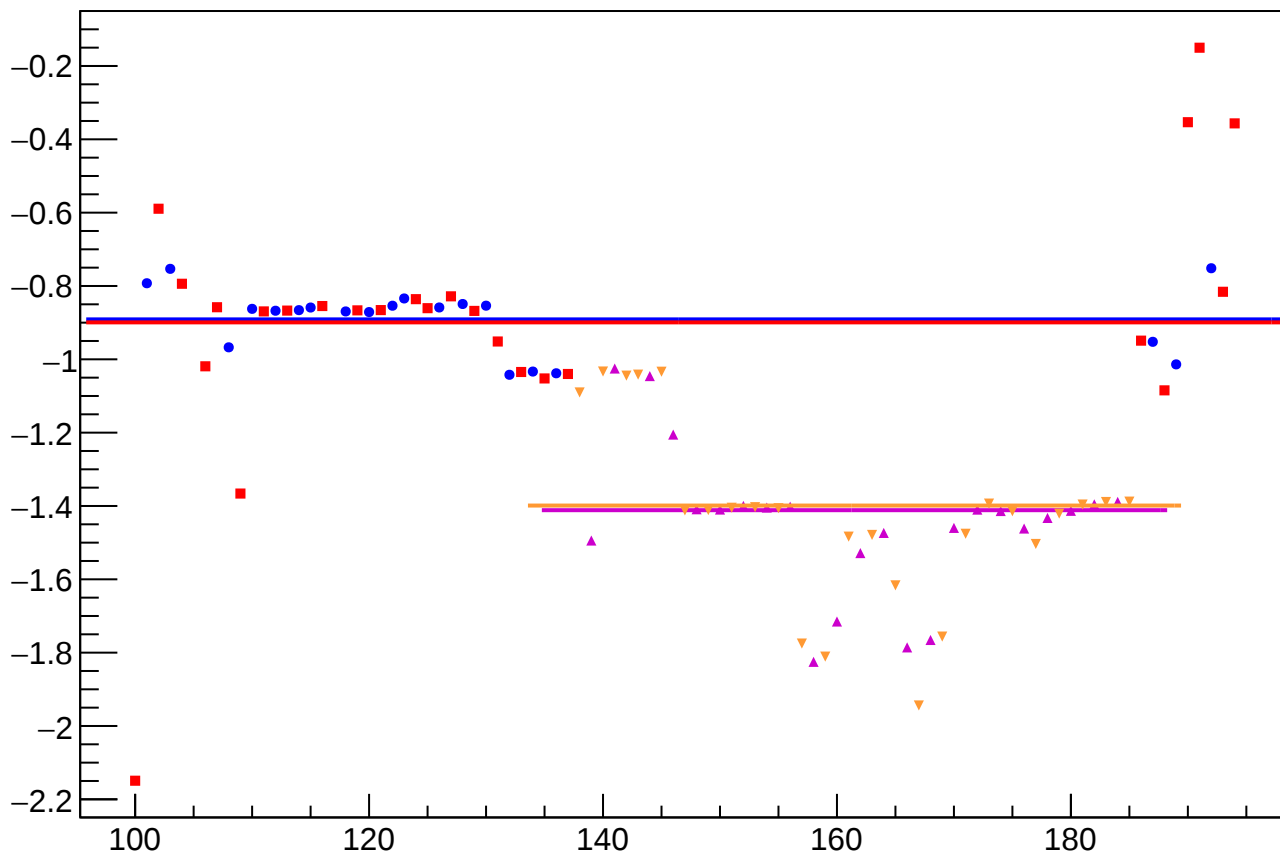
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4257224.2/44

In: 0.012 $\pm$ 0.000 χ^2 /NDF:4956176.3/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5623369.8/49

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10579993.3/92

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 45177284.3/19$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.899 ± 0.000 $\chi^2/\text{NDF}: 242358659.4/24$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

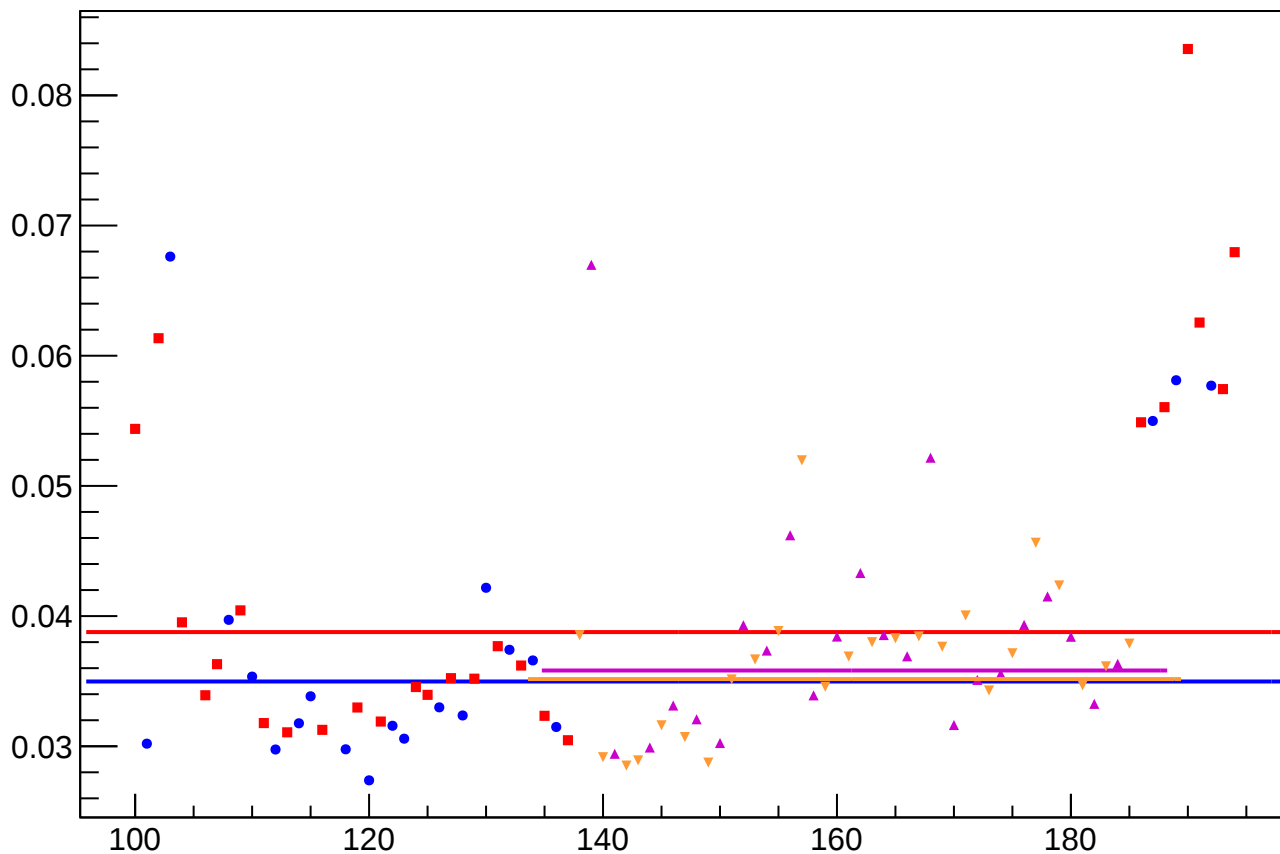
Right: -0.895 ± 0.000 $\chi^2/\text{NDF}: 287730070.2/44$

In: -1.241 ± 0.000 $\chi^2/\text{NDF}: 1612792865.5/42$

Out: -1.242 ± 0.000 $\chi^2/\text{NDF}: 1995510804.6/49$

All: -1.242 ± 0.000 $\chi^2/\text{NDF}: 3608312741.2/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.000 χ^2/NDF : 903225.0/19

Left Out: 0.035 $\pm$ 0.000 χ^2/NDF : 595219.5/24

Right Out: 0.039 $\pm$ 0.000 χ^2/NDF : 1363201.6/24

Left In: 0.036 $\pm$ 0.000 χ^2/NDF : 864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2/NDF : 1464751.5/47

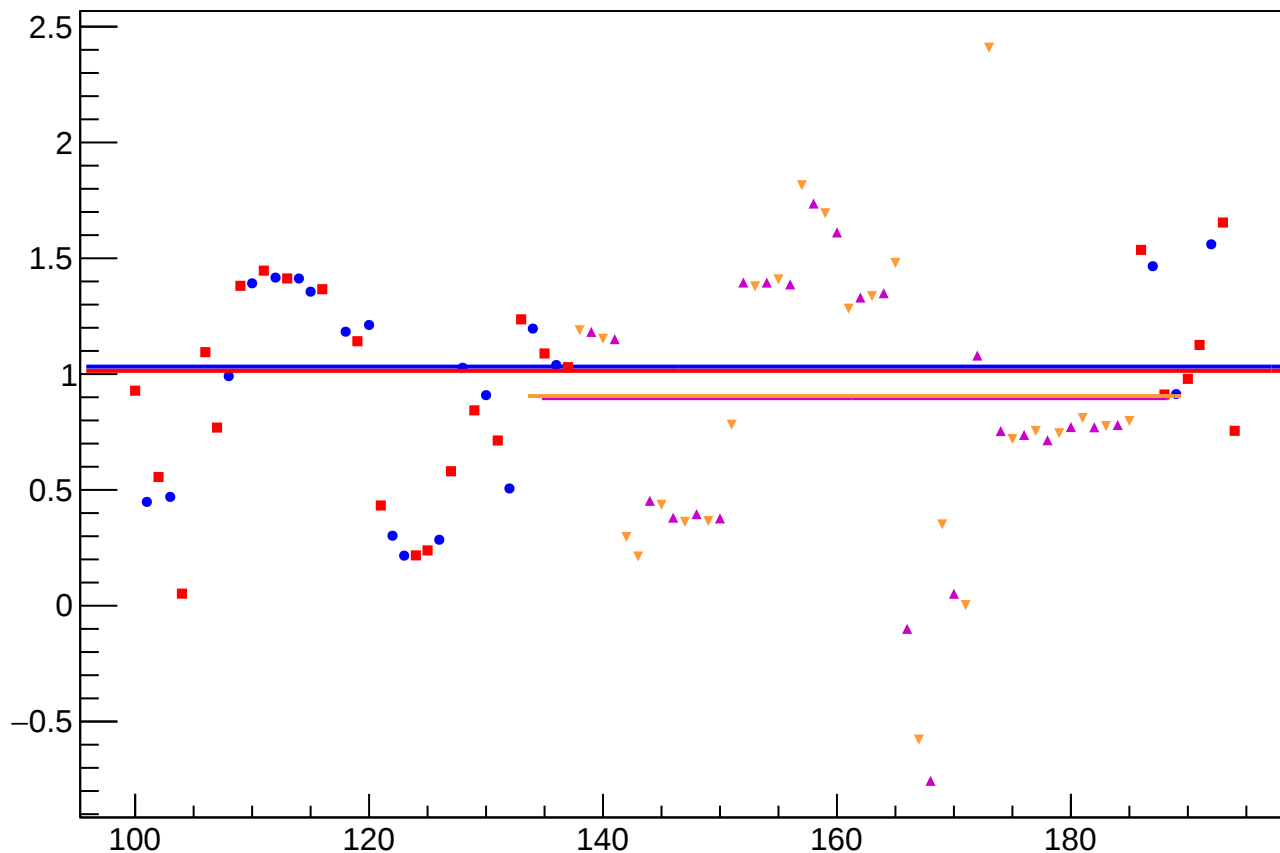
Right: 0.037 $\pm$ 0.000 χ^2/NDF : 2350813.4/44

In: 0.036 $\pm$ 0.000 χ^2/NDF : 1772928.0/42

Out: 0.036 $\pm$ 0.000 χ^2/NDF : 2064392.2/49

All: 0.036 $\pm$ 0.000 χ^2/NDF : 3847601.0/92

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.032 $\pm$ 0.000

χ^2 /NDF: 12423900897.8/19

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 1.022 $\pm$ 0.000 χ^2 /NDF: 28998439835.7/44

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.932 $\pm$ 0.000 χ^2 /NDF: 80024001794.2/42

Right Out: 1.014 $\pm$ 0.000

χ^2 /NDF: 16560732519.0/24

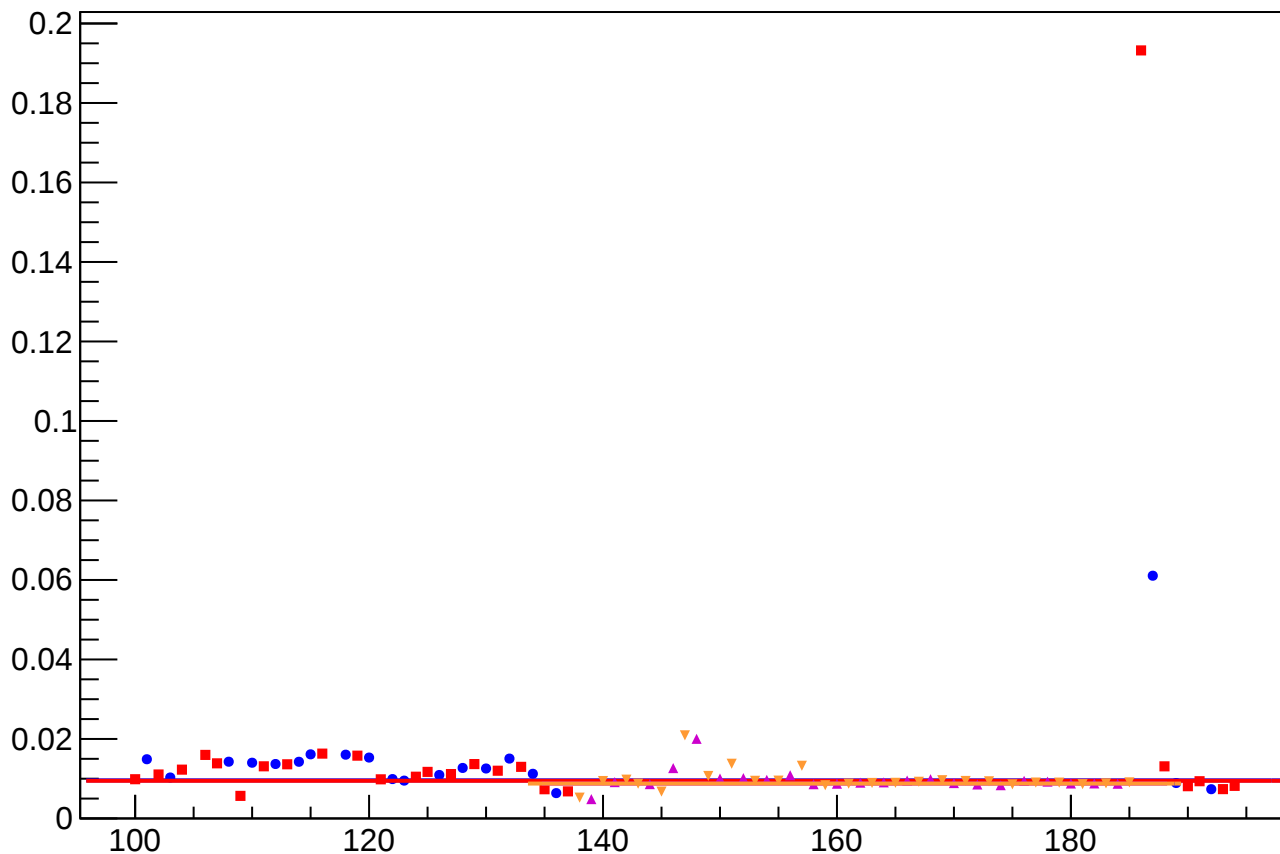
Out: 0.938 $\pm$ 0.000 χ^2 /NDF: 101604608843.1/49

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.935 $\pm$ 0.000 χ^2 /NDF: 181633353188.8

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1651388.3/19

Left Out: 0.009+/-0.000 χ^2/NDF : 1697568.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2123813.5/24

Left In: 0.009+/-0.000 χ^2/NDF : 1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

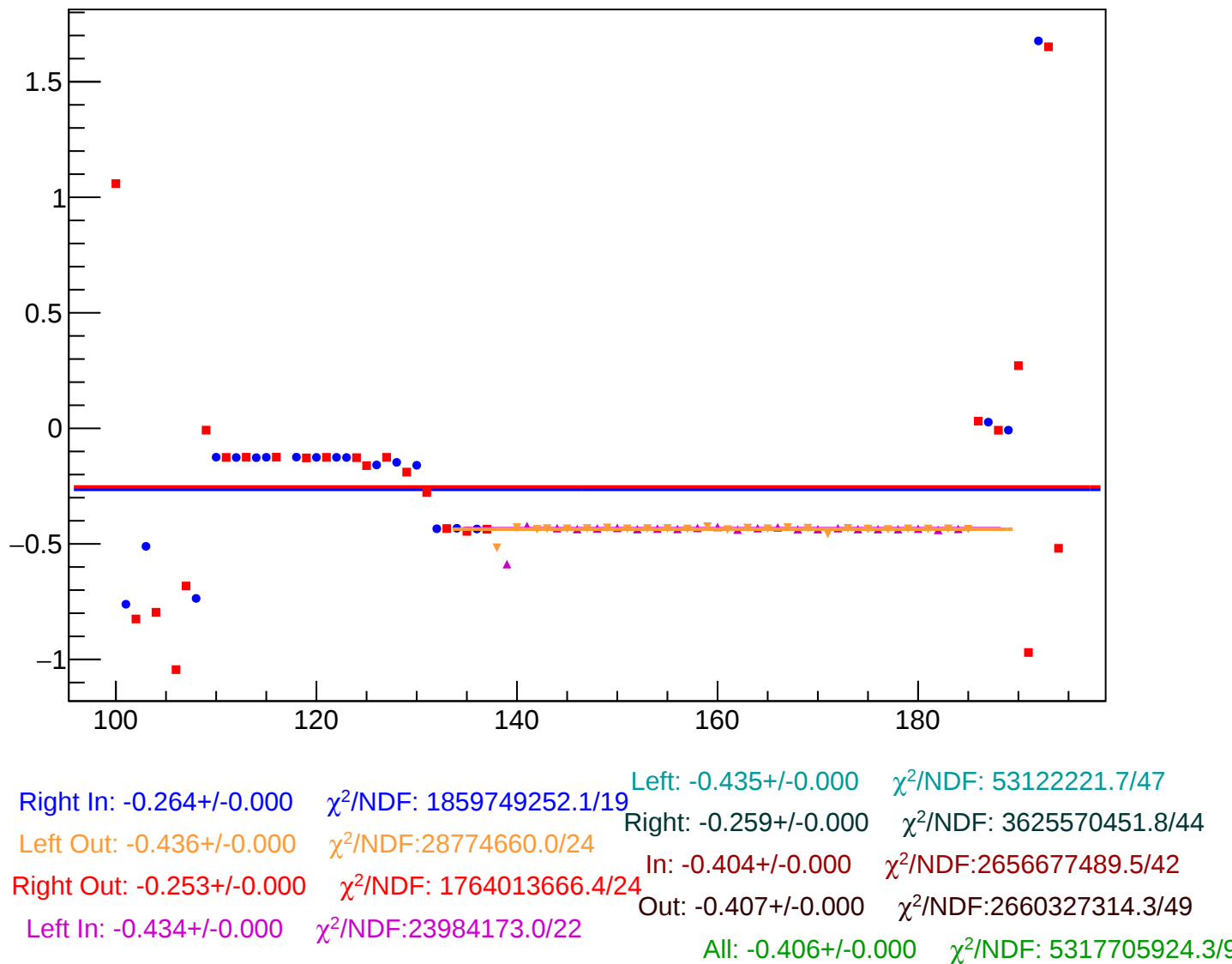
Right: 0.010+/-0.000 χ^2/NDF : 3776223.9/44

In: 0.009+/-0.000 χ^2/NDF : 3331415.2/42

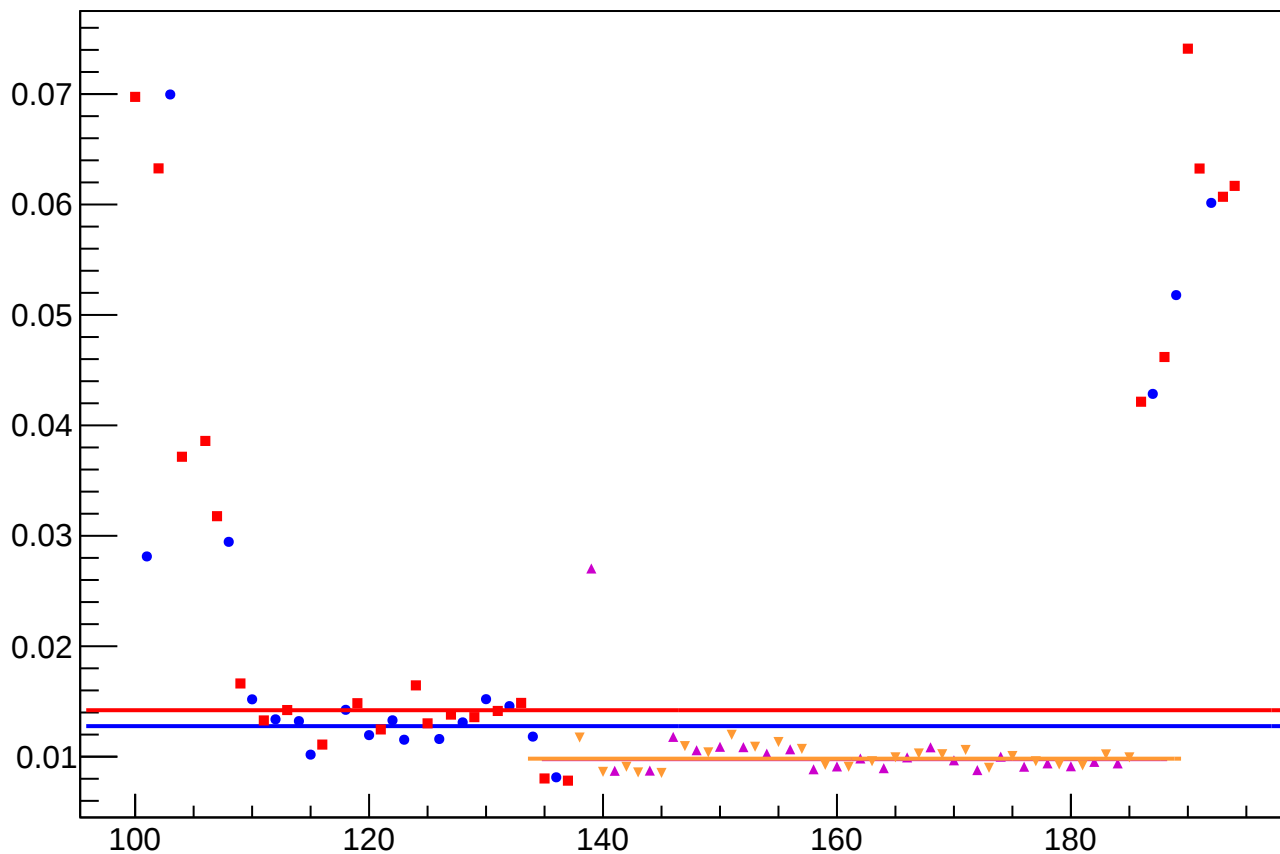
Out: 0.009+/-0.000 χ^2/NDF : 3885425.2/49

All: 0.009+/-0.000 χ^2/NDF : 7216840.5/92

yield_bpm16X_mean vs Slug, Sign Corrected



yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 3492676.1/19

Left Out: 0.010+/-0.000 χ^2/NDF : 269242.6/24

Right Out: 0.014+/-0.000 χ^2/NDF : 5755211.0/24

Left In: 0.010+/-0.000 χ^2/NDF : 747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

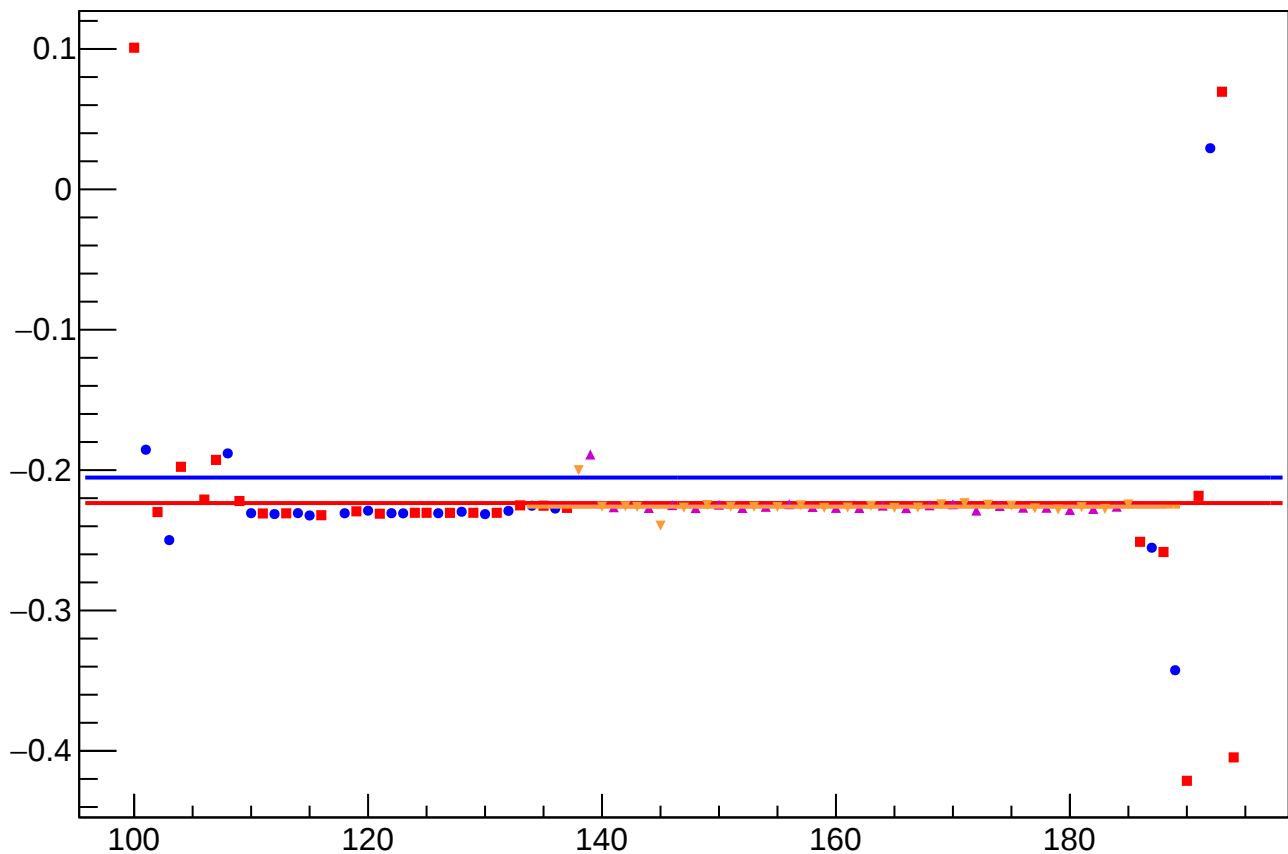
Right: 0.013+/-0.000 χ^2/NDF : 9313688.5/44

In: 0.010+/-0.000 χ^2/NDF : 4719237.6/42

Out: 0.011+/-0.000 χ^2/NDF : 7024139.9/49

All: 0.010+/-0.000 χ^2/NDF : 11752748.7/92

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 $\chi^2/\text{NDF}: 1875660684.7/19$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21205667.4/24$

Right Out: -0.223 ± 0.000 $\chi^2/\text{NDF}: 3222527695.5/24$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 15245251.1/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 36480793.2/47$

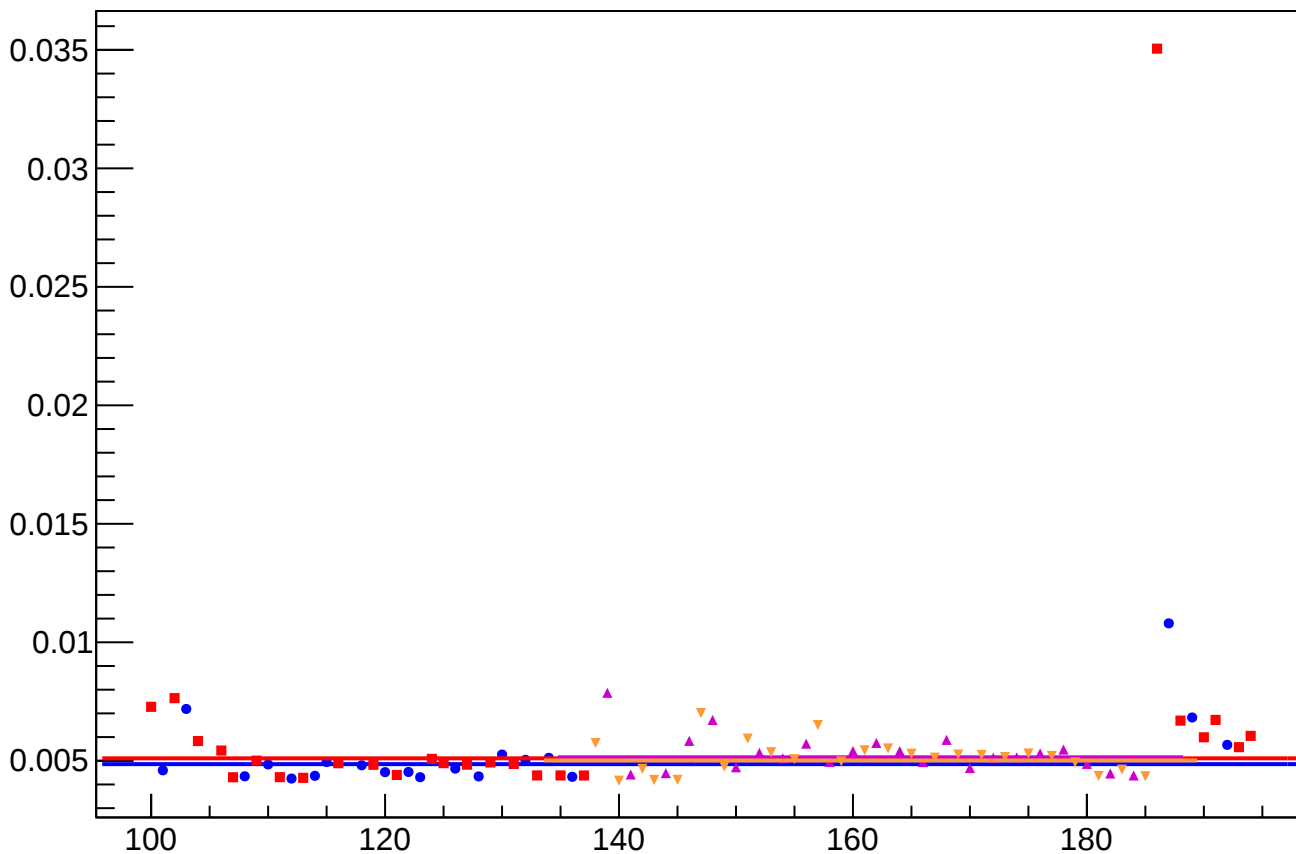
Right: -0.215 ± 0.000 $\chi^2/\text{NDF}: 5153164967.9/44$

In: -0.219 ± 0.000 $\chi^2/\text{NDF}: 1977402955.9/42$

Out: -0.225 ± 0.000 $\chi^2/\text{NDF}: 3245274112.9/49$

All: -0.222 ± 0.000 $\chi^2/\text{NDF}: 5242287484.3/9$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 394133.5/19

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1009390.2/24

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

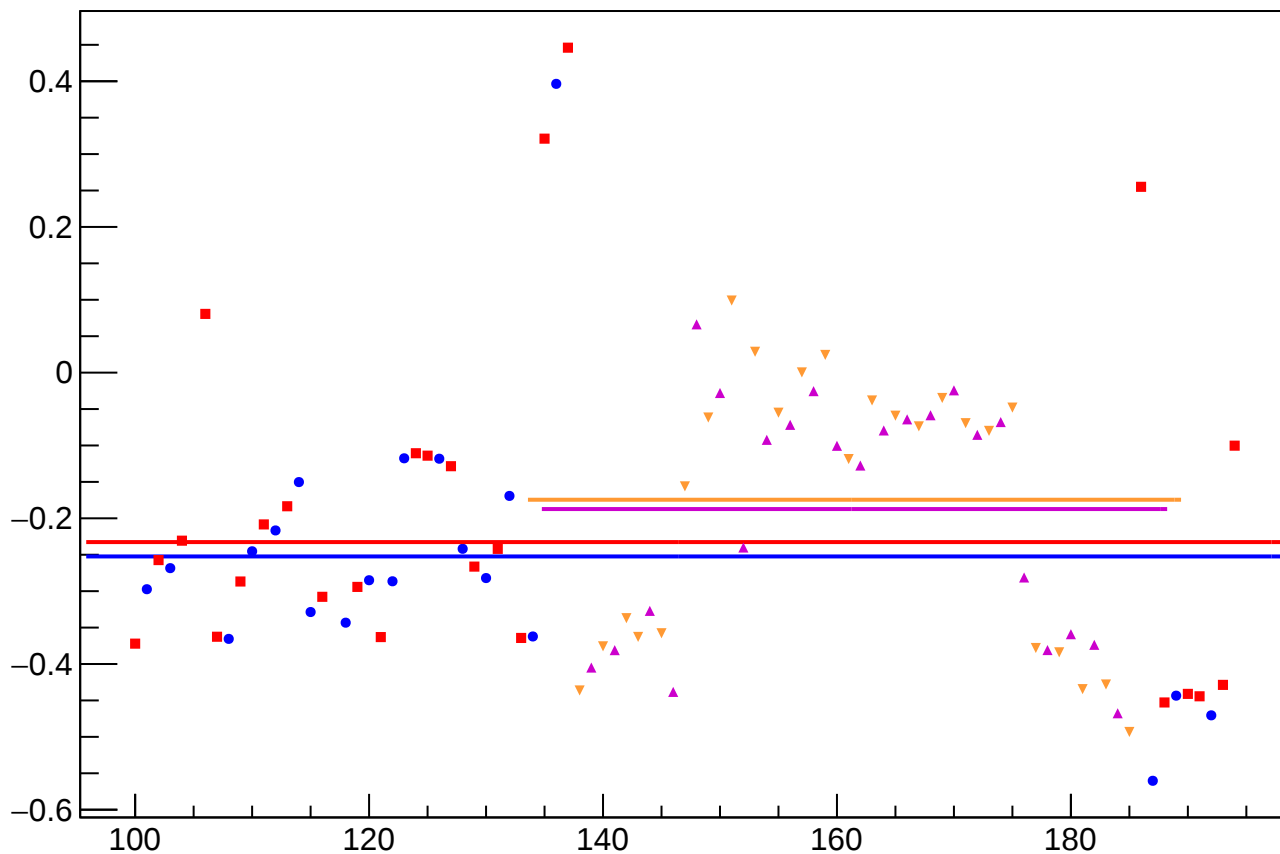
Right: 0.005+/-0.000 χ^2/NDF : 1423570.0/44

In: 0.005+/-0.000 χ^2/NDF : 921764.2/42

Out: 0.005+/-0.000 χ^2/NDF : 1543780.4/49

All: 0.005+/-0.000 χ^2/NDF : 2465566.1/92

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.252 ± 0.000 $\chi^2/\text{NDF}: 7956139675.2/19$

Left Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 18025533236.1/24$

Right Out: -0.233 ± 0.000 $\chi^2/\text{NDF}: 9426365107.8/24$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.181 ± 0.000 $\chi^2/\text{NDF}: 30888184231.6/47$

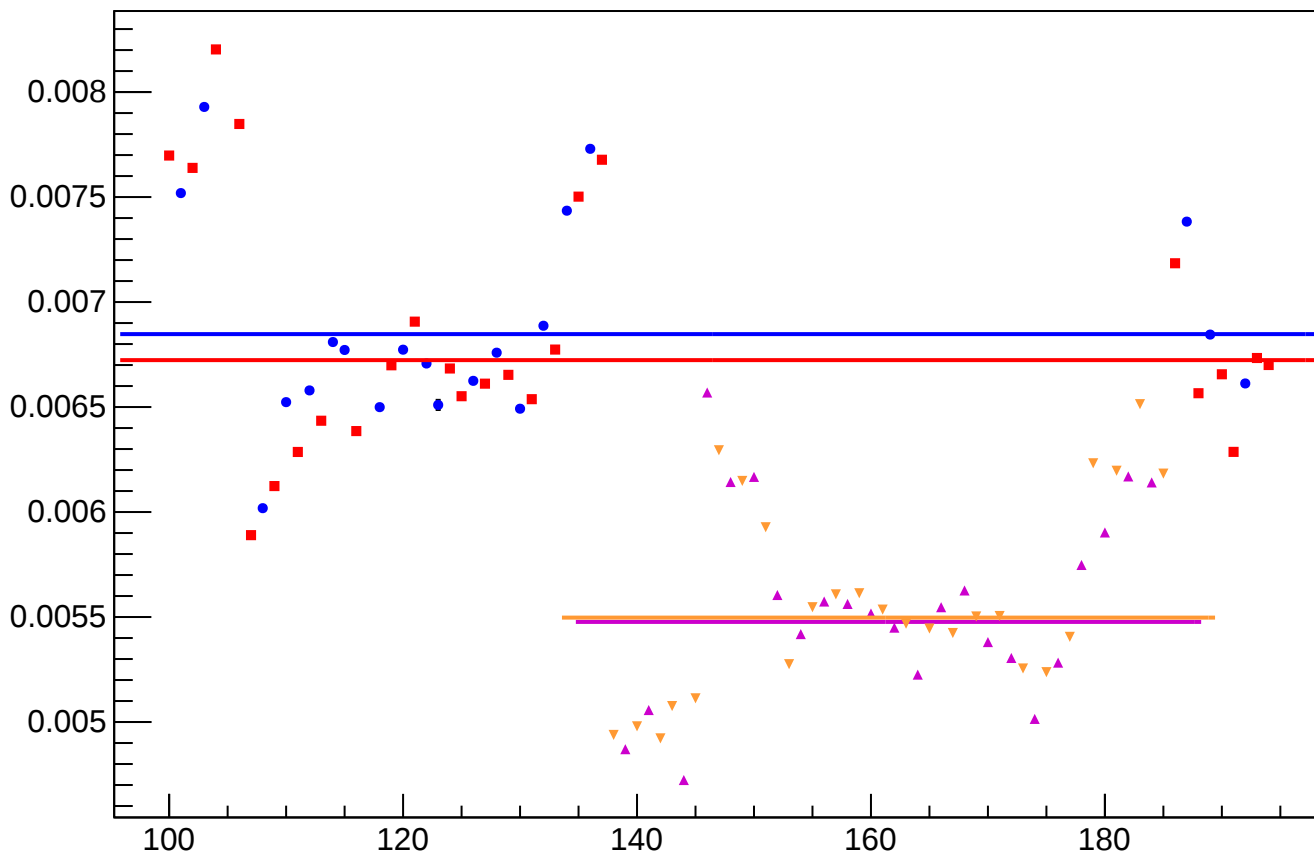
Right: -0.241 ± 0.000 $\chi^2/\text{NDF}: 17420496826.5/44$

In: -0.203 ± 0.000 $\chi^2/\text{NDF}: 21326390584.1/42$

Out: -0.191 ± 0.000 $\chi^2/\text{NDF}: 28002642277.4/49$

All: -0.197 ± 0.000 $\chi^2/\text{NDF}: 49383299663.7/100$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 82682.5/19

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 112262.1/24

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

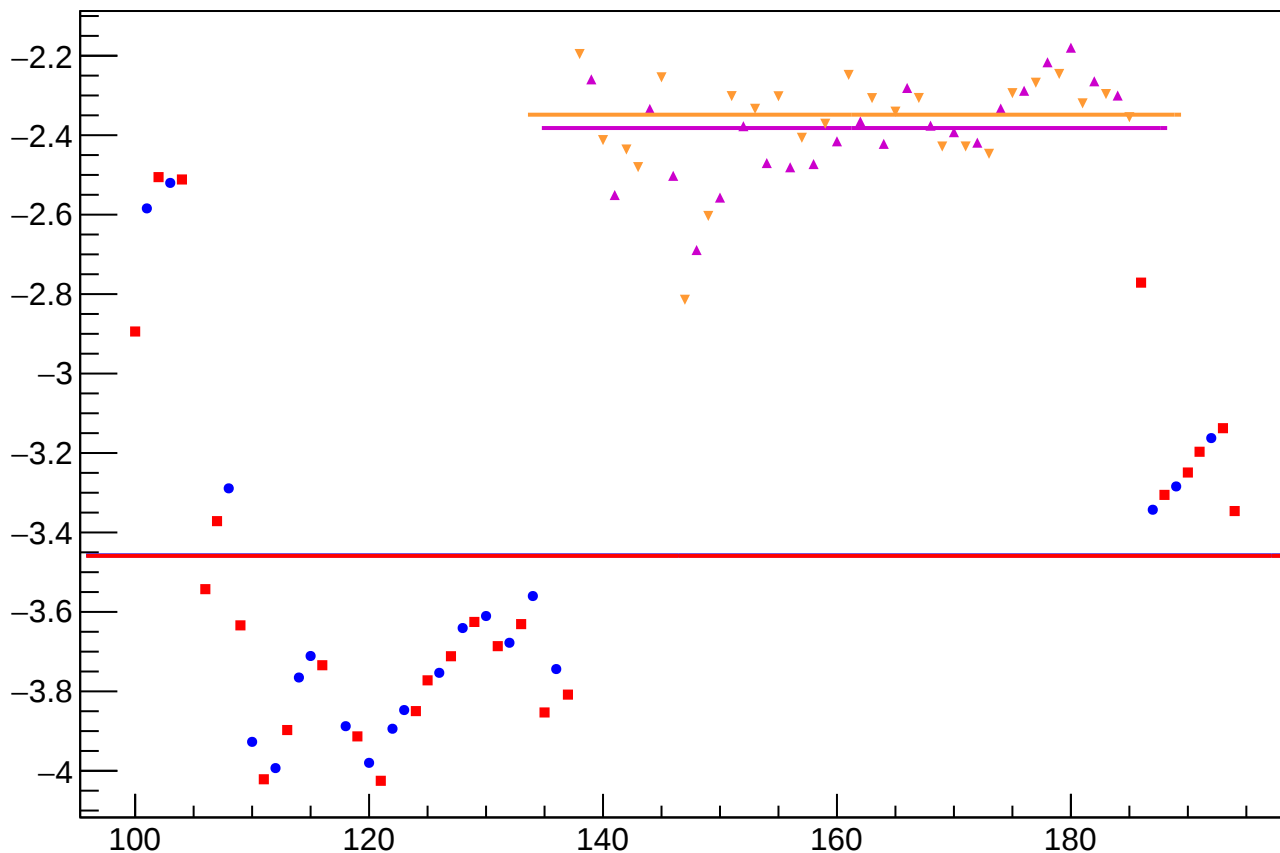
Right: 0.007+/-0.000 χ^2/NDF : 197946.8/44

In: 0.006+/-0.000 χ^2/NDF :776409.2/42

Out: 0.006+/-0.000 χ^2/NDF :800991.6/49

All: 0.006+/-0.000 χ^2/NDF : 1578532.9/92

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.458 $\pm$ 0.000 χ^2 /NDF: 27878373977.6/19

Left Out: -2.348 $\pm$ 0.000 χ^2 /NDF: 2158686333.4/24

Right Out: -3.459 $\pm$ 0.000 χ^2 /NDF: 29151012249.3/24

Left In: -2.382 $\pm$ 0.000 χ^2 /NDF: 2318395228.4/22

Left: -2.365 $\pm$ 0.000 χ^2 /NDF: 4600738143.2/47

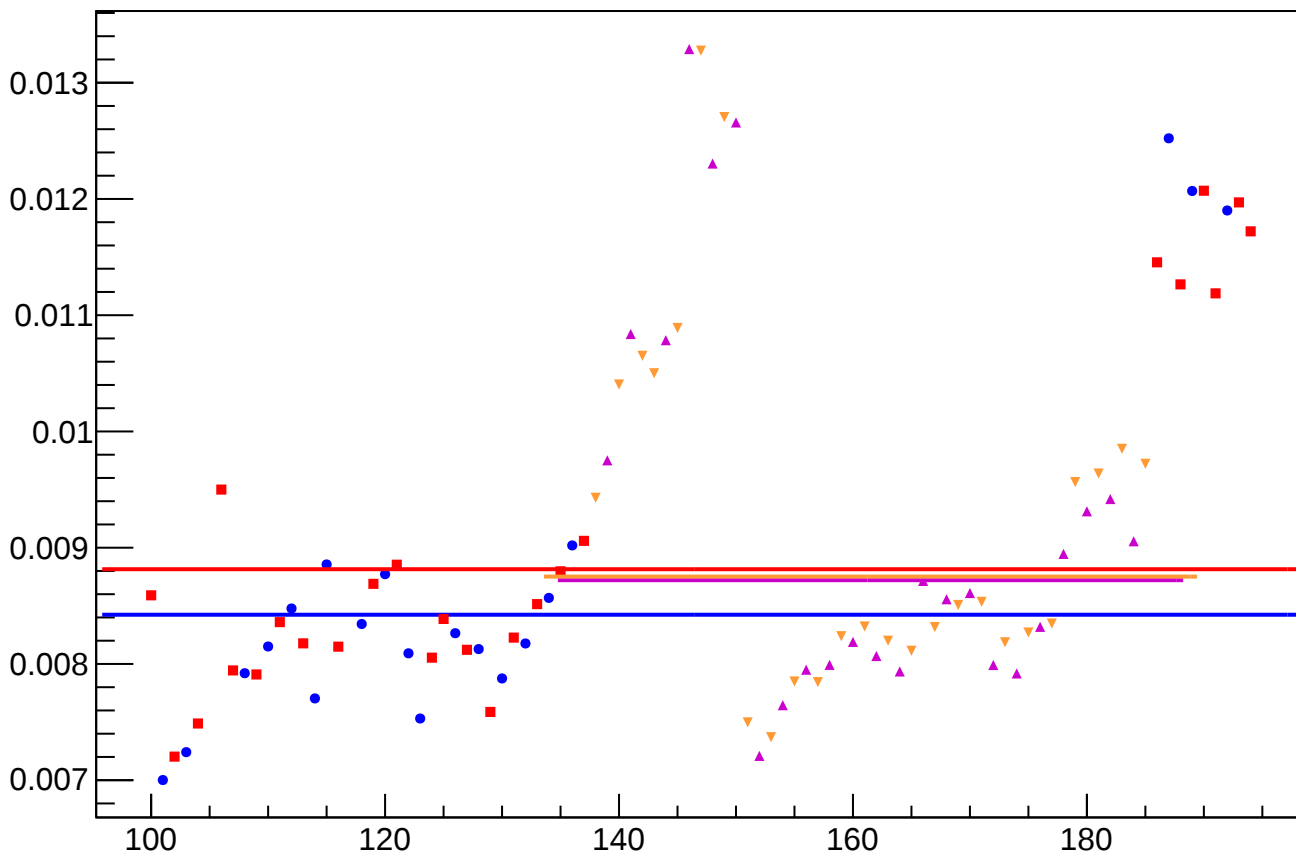
Right: -3.458 $\pm$ 0.000 χ^2 /NDF: 57029463760.2/44

In: -2.749 $\pm$ 0.000 χ^2 /NDF: 114464536809.0/42

Out: -2.750 $\pm$ 0.000 χ^2 /NDF: 131557597723.4/49

All: -2.749 $\pm$ 0.000 χ^2 /NDF: 246022195694.5

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 369928.1/19

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 549472.4/24

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

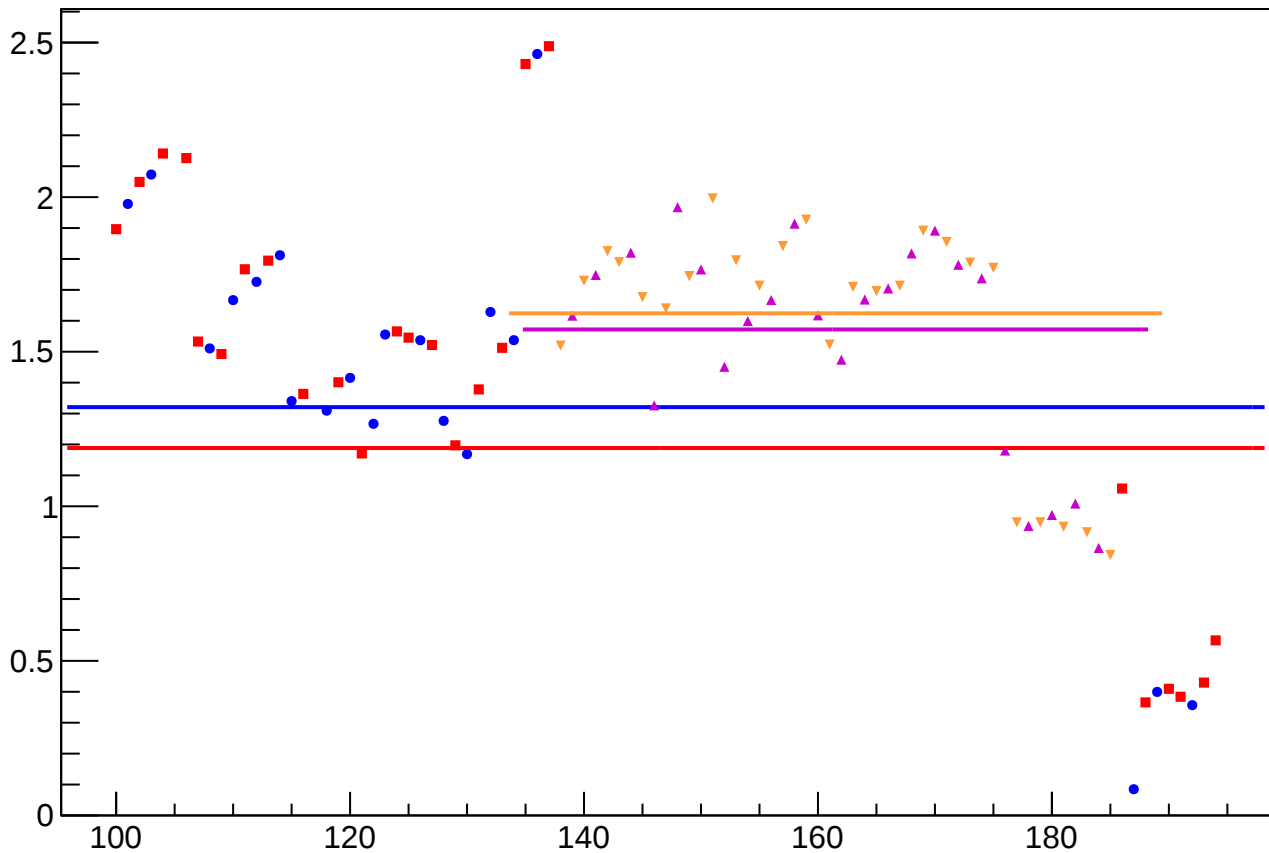
Right: 0.009+/-0.000 χ^2/NDF : 937535.7/44

In: 0.009+/-0.000 χ^2/NDF :1130648.1/42

Out: 0.009+/-0.000 χ^2/NDF :1213800.9/49

All: 0.009+/-0.000 χ^2/NDF : 2352582.1/92

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.321+/-0.000 χ^2/NDF : 24429412728.5/19

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.188+/-0.000 χ^2/NDF : 31662166177.7/24

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

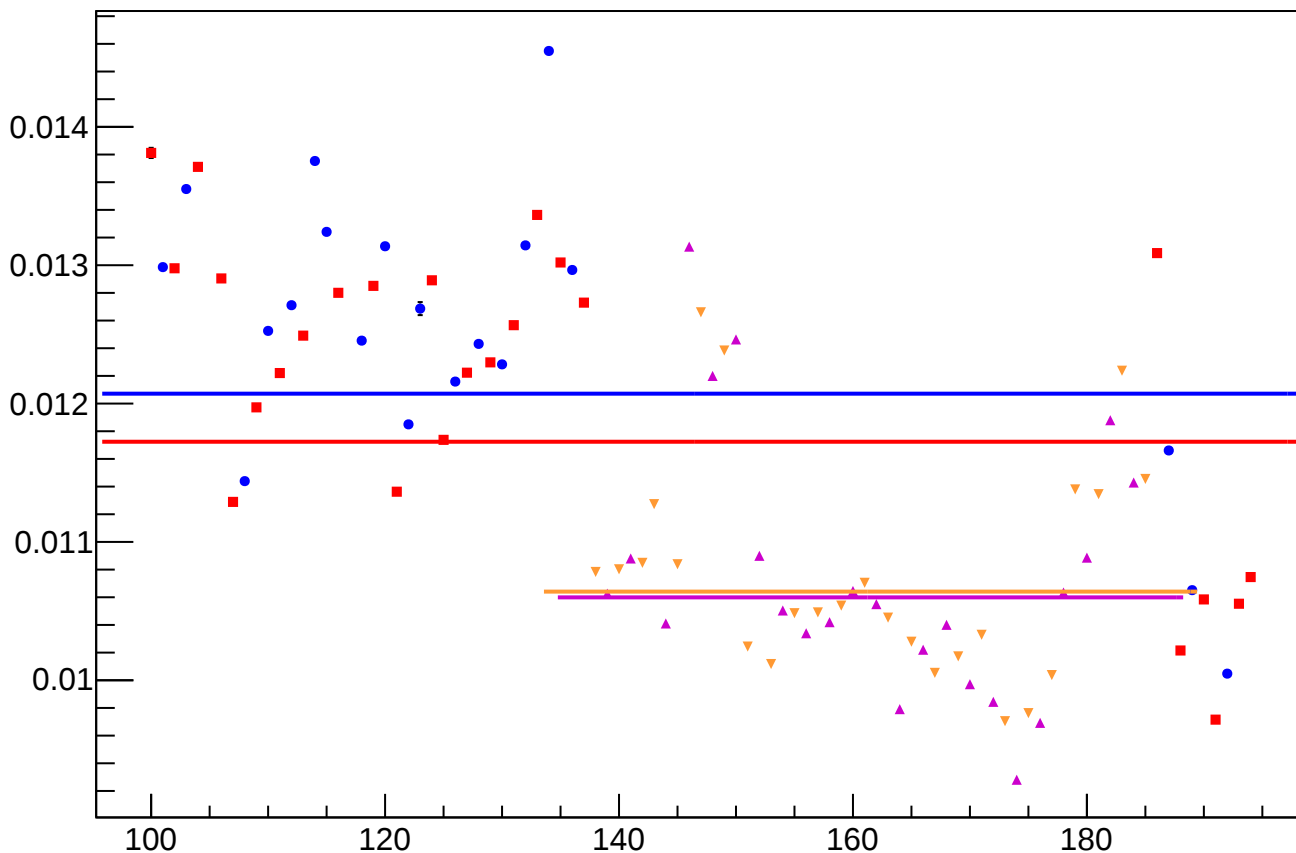
Right: 1.245+/-0.000 χ^2/NDF : 56642068905.0/44

In: 1.504+/-0.000 χ^2/NDF : 41184725152.9/42

Out: 1.484+/-0.000 χ^2/NDF : 57813861159.7/49

All: 1.493+/-0.000 χ^2/NDF : 99041390567.9/99

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 150621.9/19

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 195257.2/24

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

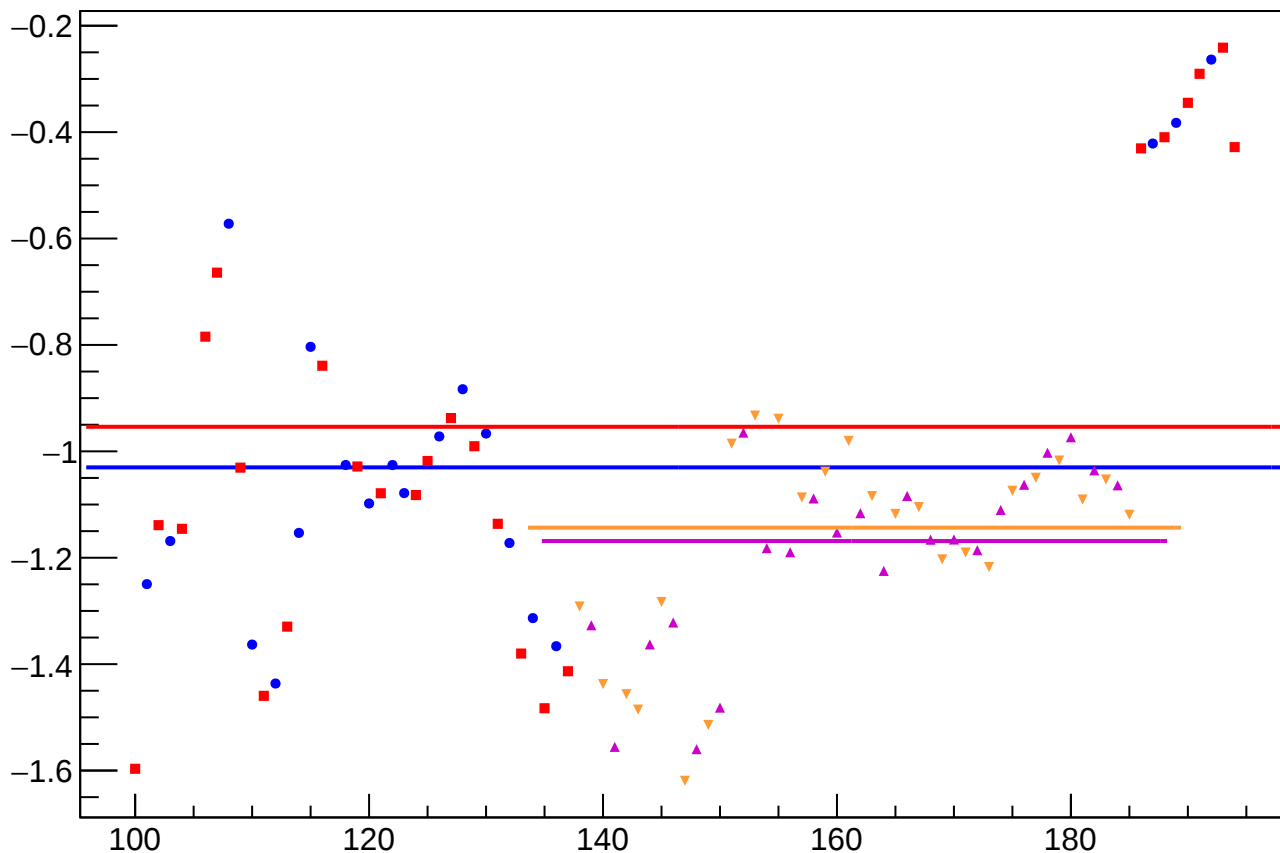
Right: 0.012+/-0.000 χ^2/NDF : 353478.4/44

In: 0.011+/-0.000 χ^2/NDF :528524.7/42

Out: 0.011+/-0.000 χ^2/NDF :472745.8/49

All: 0.011+/-0.000 χ^2/NDF : 1001285.9/92

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.030+/-0.000 χ^2/NDF : 10067525370.9/19

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.954+/-0.000 χ^2/NDF : 15551283877.1/24

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

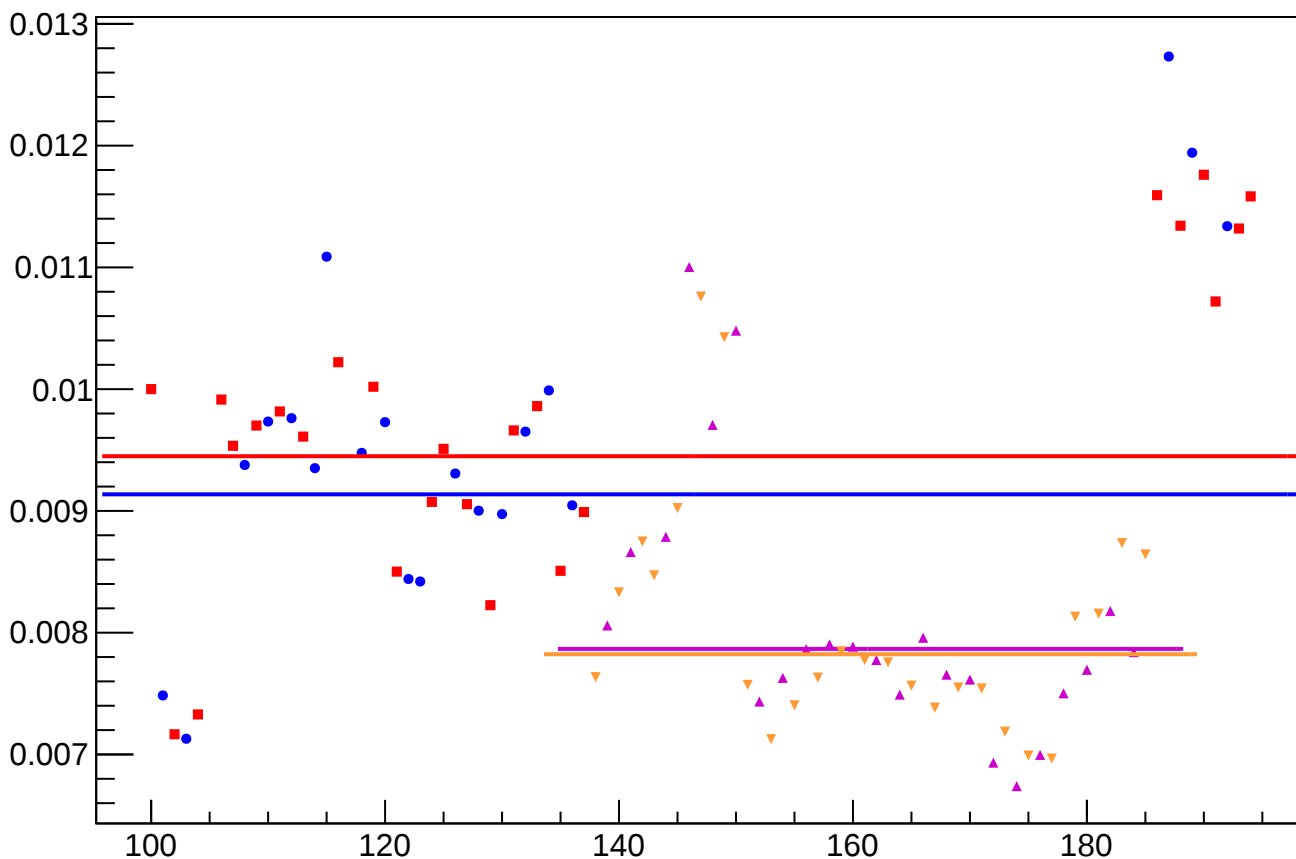
Right: -0.989+/-0.000 χ^2/NDF : 25912614316.1/44

In: -1.132+/-0.000 χ^2/NDF : 17746844217.8/42

Out: -1.090+/-0.000 χ^2/NDF : 26366307362.2/49

All: -1.110+/-0.000 χ^2/NDF : 44447406126.7/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 312142.6/19

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 436483.2/24

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

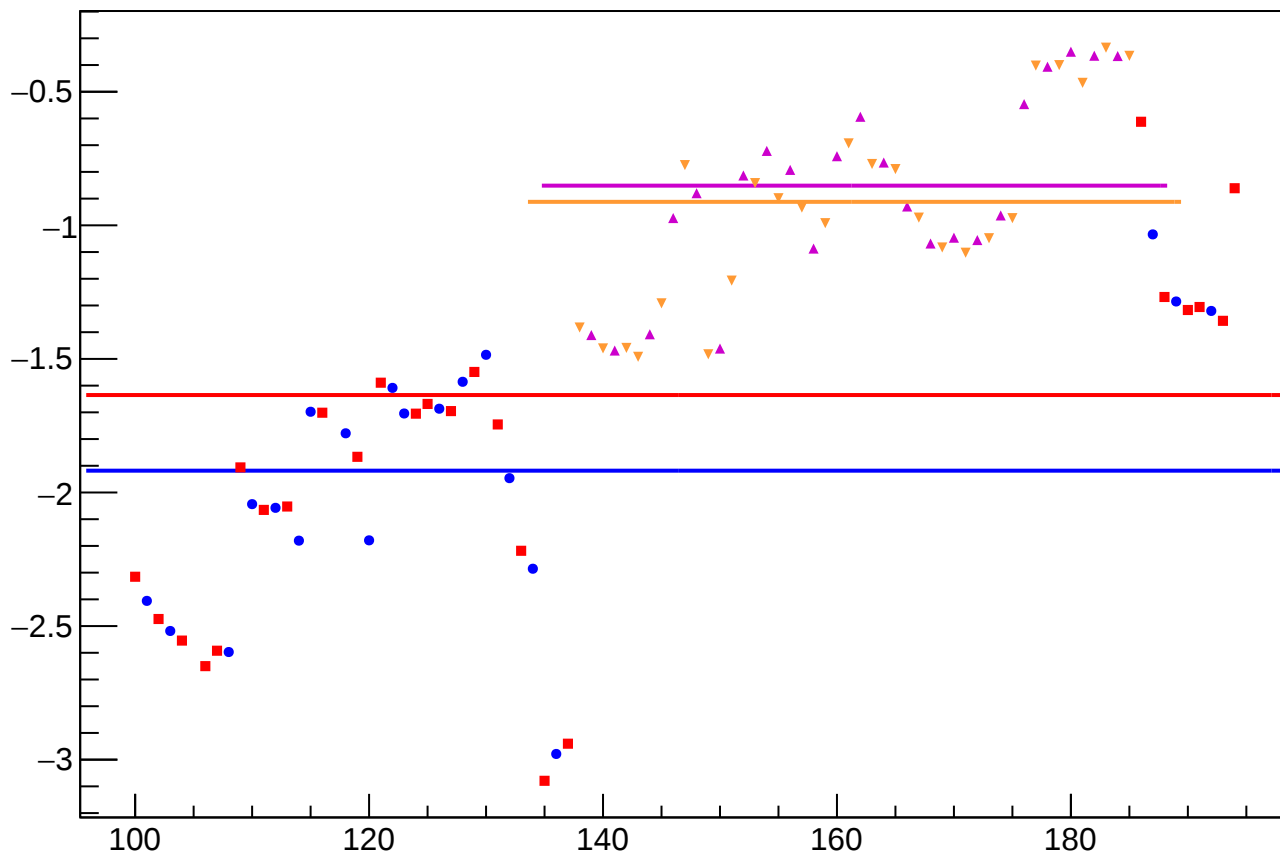
Right: 0.009+/-0.000 χ^2/NDF : 758507.5/44

In: 0.008+/-0.000 χ^2/NDF :913446.8/42

Out: 0.008+/-0.000 χ^2/NDF :1190617.5/49

All: 0.008+/-0.000 χ^2/NDF : 2106592.4/92

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -1.918 ± 0.000 $\chi^2/\text{NDF}: 47778418577.0/19$

Left Out: -0.912 ± 0.000 $\chi^2/\text{NDF}: 49039425818.1/24$

Right Out: -1.635 ± 0.000 $\chi^2/\text{NDF}: 100087189447.8/24$

Left In: -0.851 ± 0.000 $\chi^2/\text{NDF}: 46438446008.2/22$

Left: -0.882 ± 0.000 $\chi^2/\text{NDF}: 96285672564.6/47$

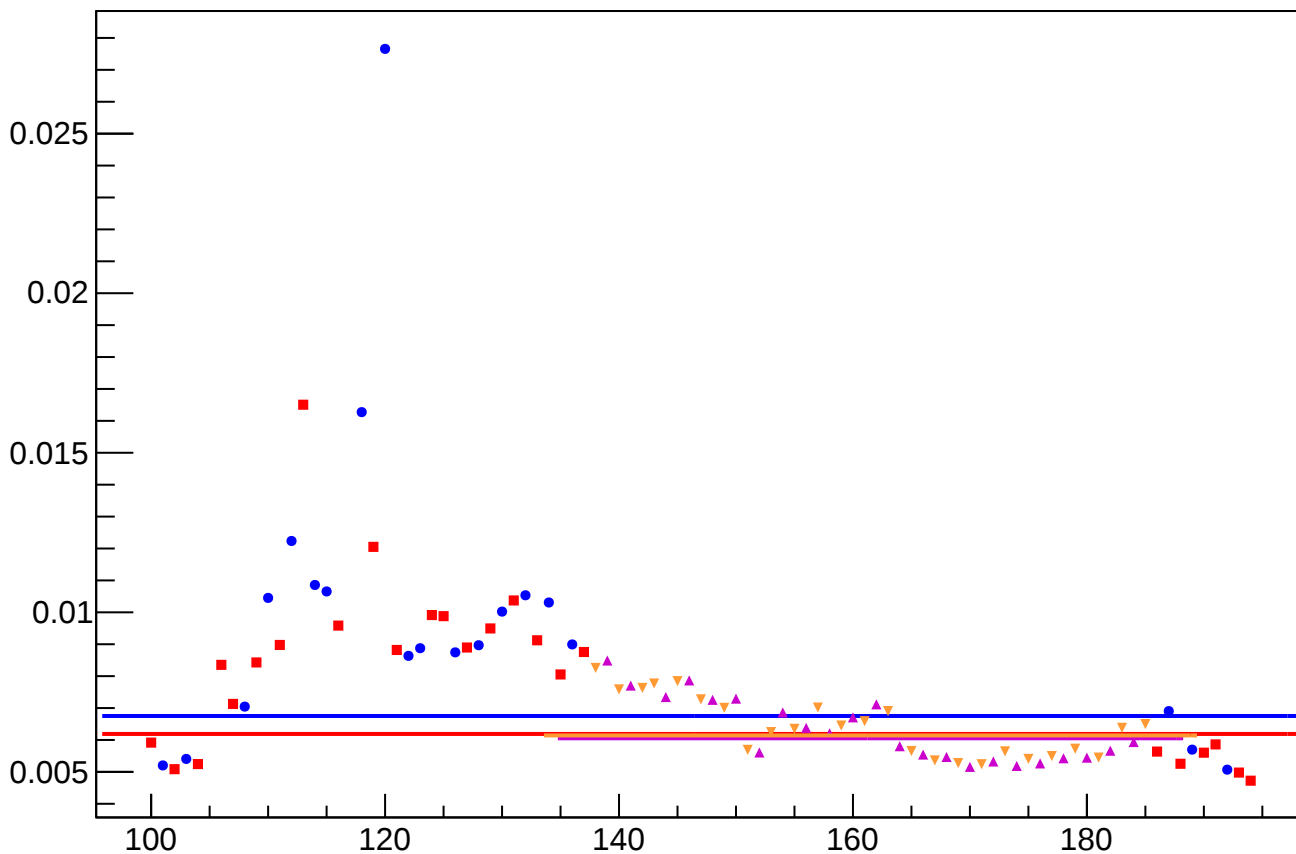
Right: -1.744 ± 0.000 $\chi^2/\text{NDF}: 154683800690.7/44$

In: -1.108 ± 0.000 $\chi^2/\text{NDF}: 213341694947.1/42$

Out: -1.153 ± 0.000 $\chi^2/\text{NDF}: 226647473691.7/49$

All: -1.132 ± 0.000 $\chi^2/\text{NDF}: 440604903048.1$

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 1546850.6/19

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1570163.2/24

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

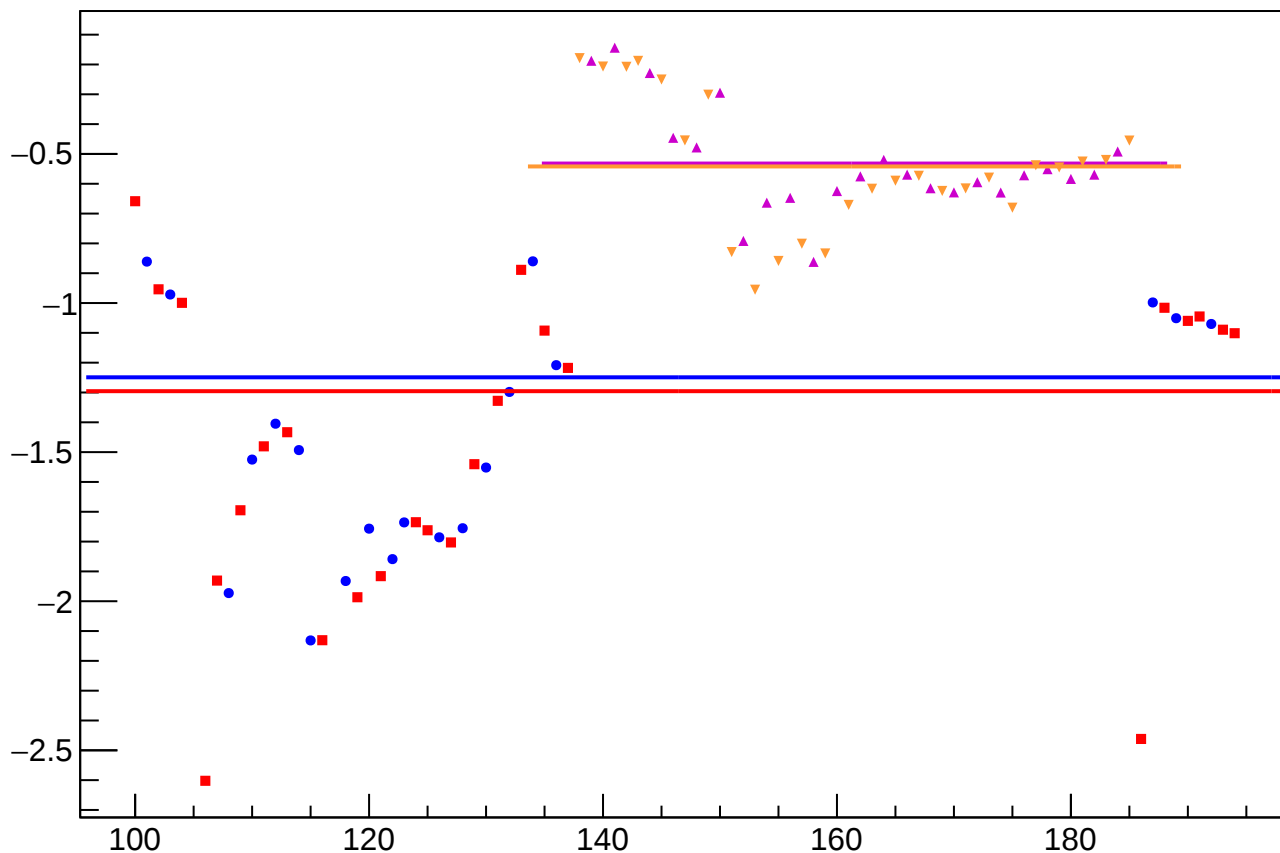
Right: 0.006+/-0.000 χ^2/NDF : 3170898.1/44

In: 0.006+/-0.000 χ^2/NDF : 2346685.9/42

Out: 0.006+/-0.000 χ^2/NDF : 2208573.0/49

All: 0.006+/-0.000 χ^2/NDF : 4557714.3/92

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.249+/-0.000 χ^2/NDF : 25305079322.4/19

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.296+/-0.000 χ^2/NDF : 76840607576.6/24

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

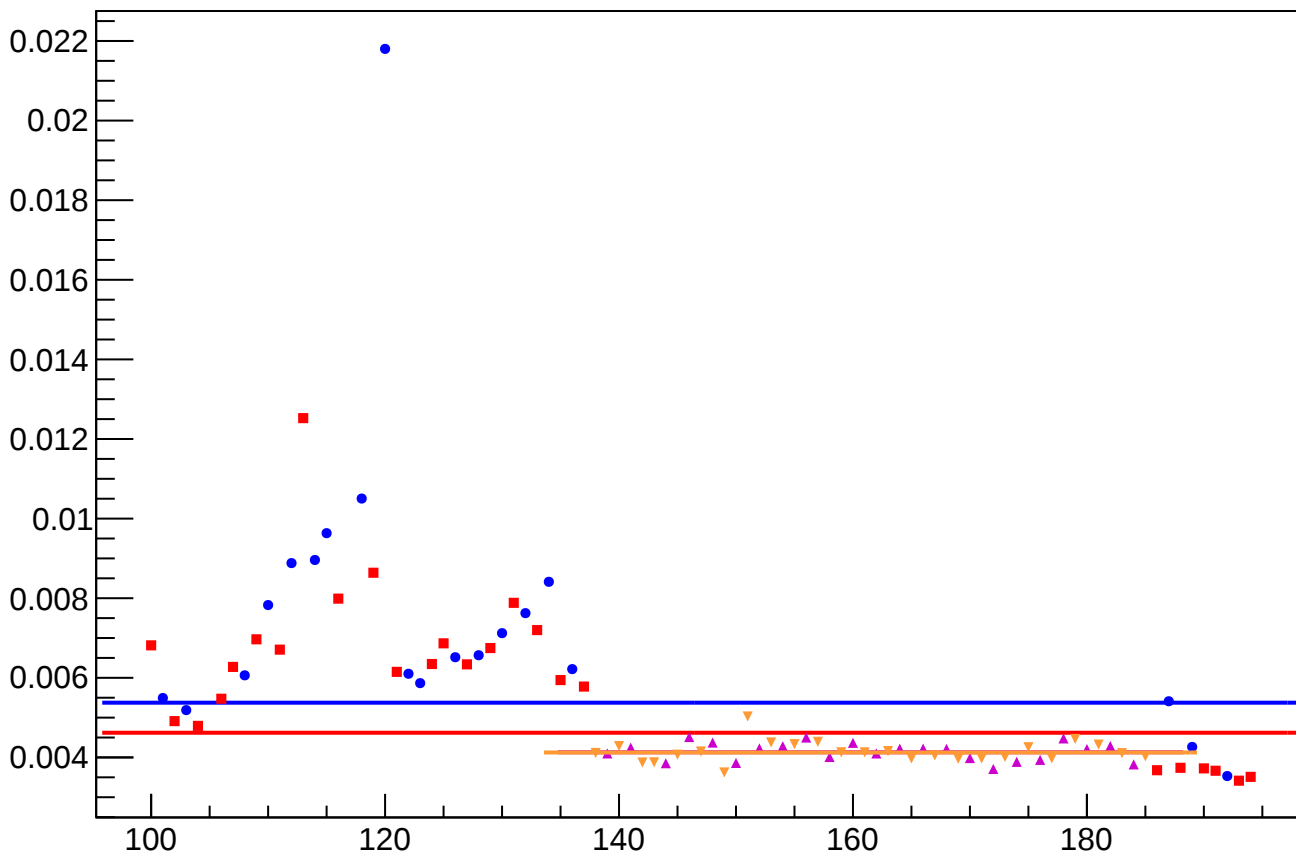
Right: -1.279+/-0.000 χ^2/NDF : 102448983841.4/44

In: -0.668+/-0.000 χ^2/NDF : 147466298489.6/42

Out: -0.754+/-0.000 χ^2/NDF : 282436718815.3/49

All: -0.715+/-0.000 χ^2/NDF : 434478370591.0

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 1371466.8/19

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:113033.9/24

Right Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 1695960.9/24

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:93111.2/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 206172.1/47

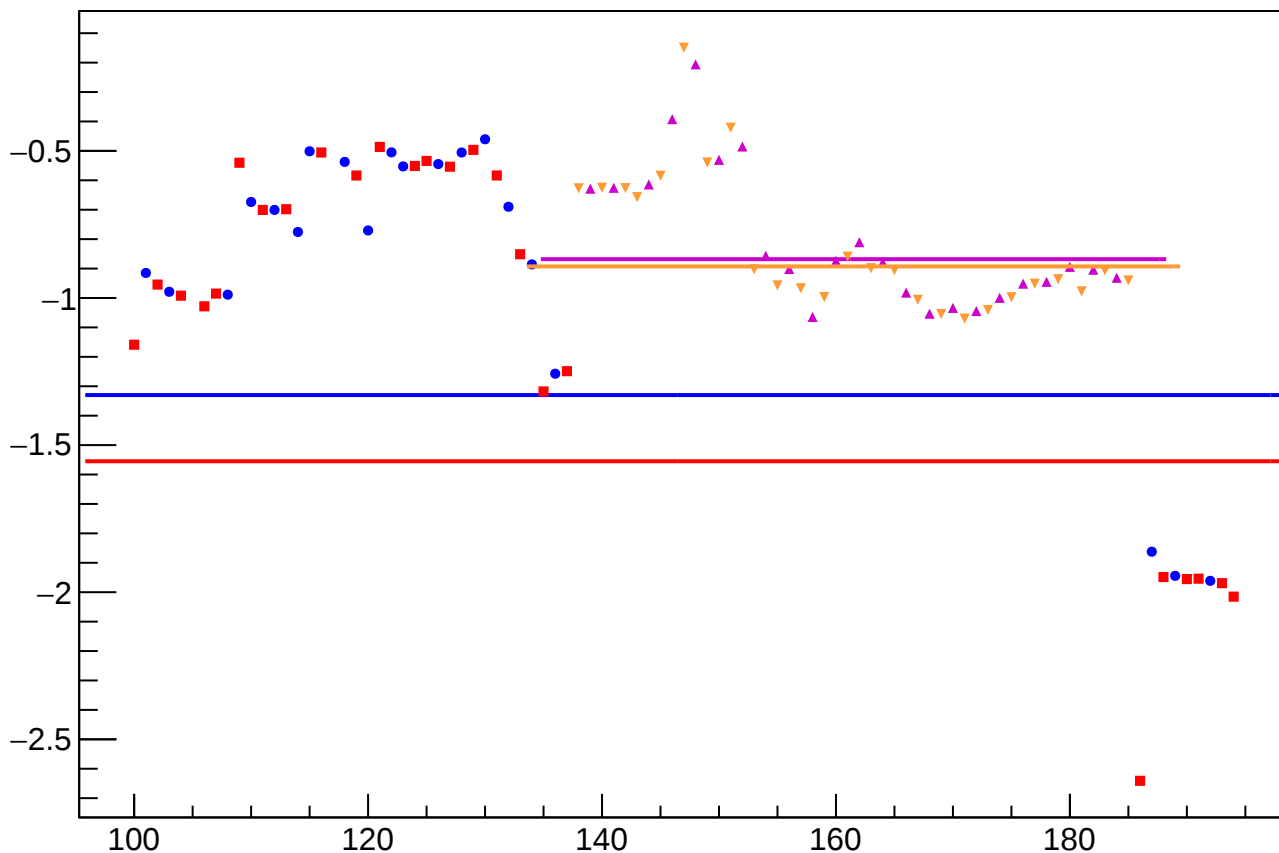
Right: 0.005 $\pm$ 0.000 χ^2 /NDF: 3227377.7/44

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2016767.2/42

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1945985.6/49

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 3976014.7/92

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.330+/-0.000

χ^2/NDF : 128239864584.2/19

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Right: -1.467+/-0.000

χ^2/NDF : 371655466460.5/44

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

In: -0.980+/-0.000

χ^2/NDF : 229901881686.6/42

Right Out: -1.555+/-0.000

χ^2/NDF : 232343230798.4/24

Out: -1.113+/-0.000

χ^2/NDF : 437592675610.8/49

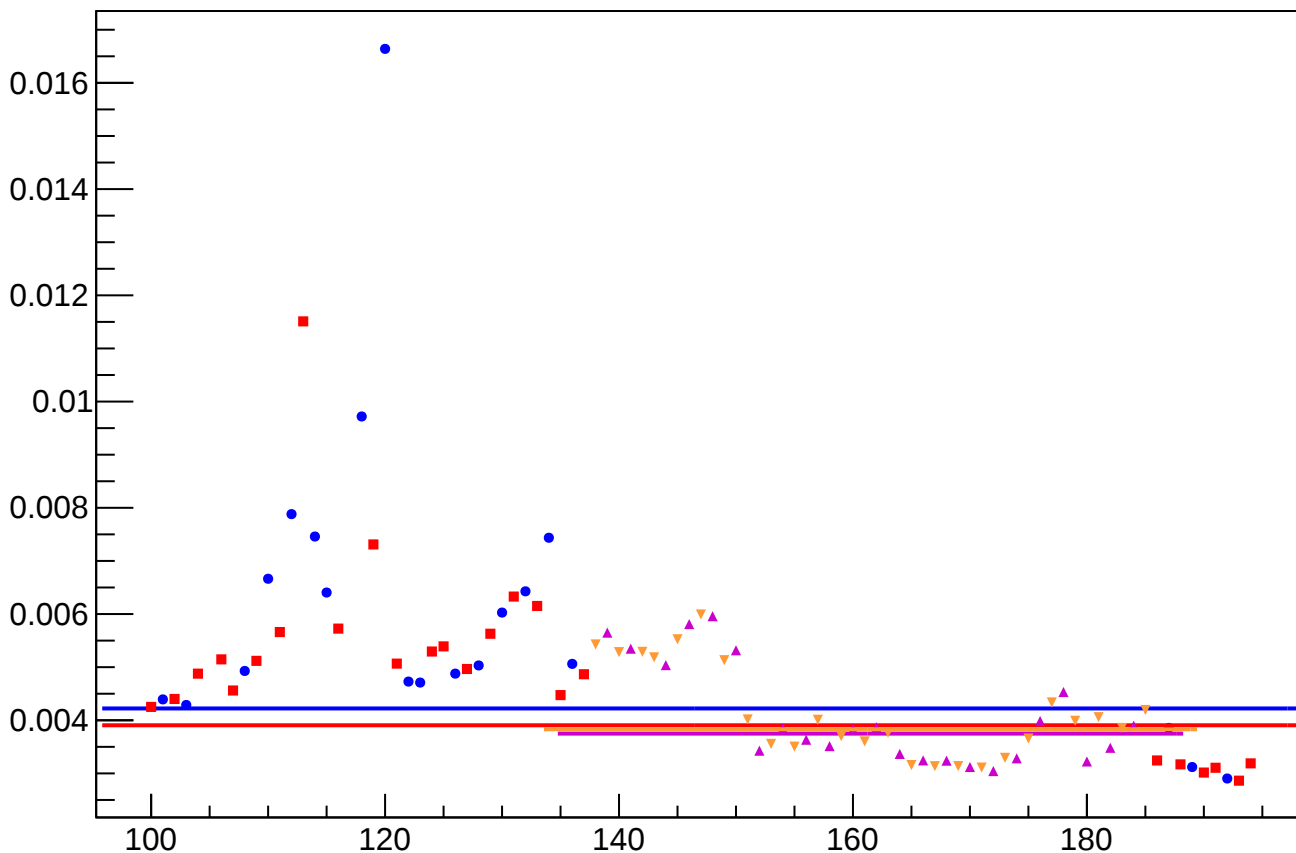
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.051+/-0.000

χ^2/NDF : 681441038011.6

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1531496.8/19

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1545318.0/24

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

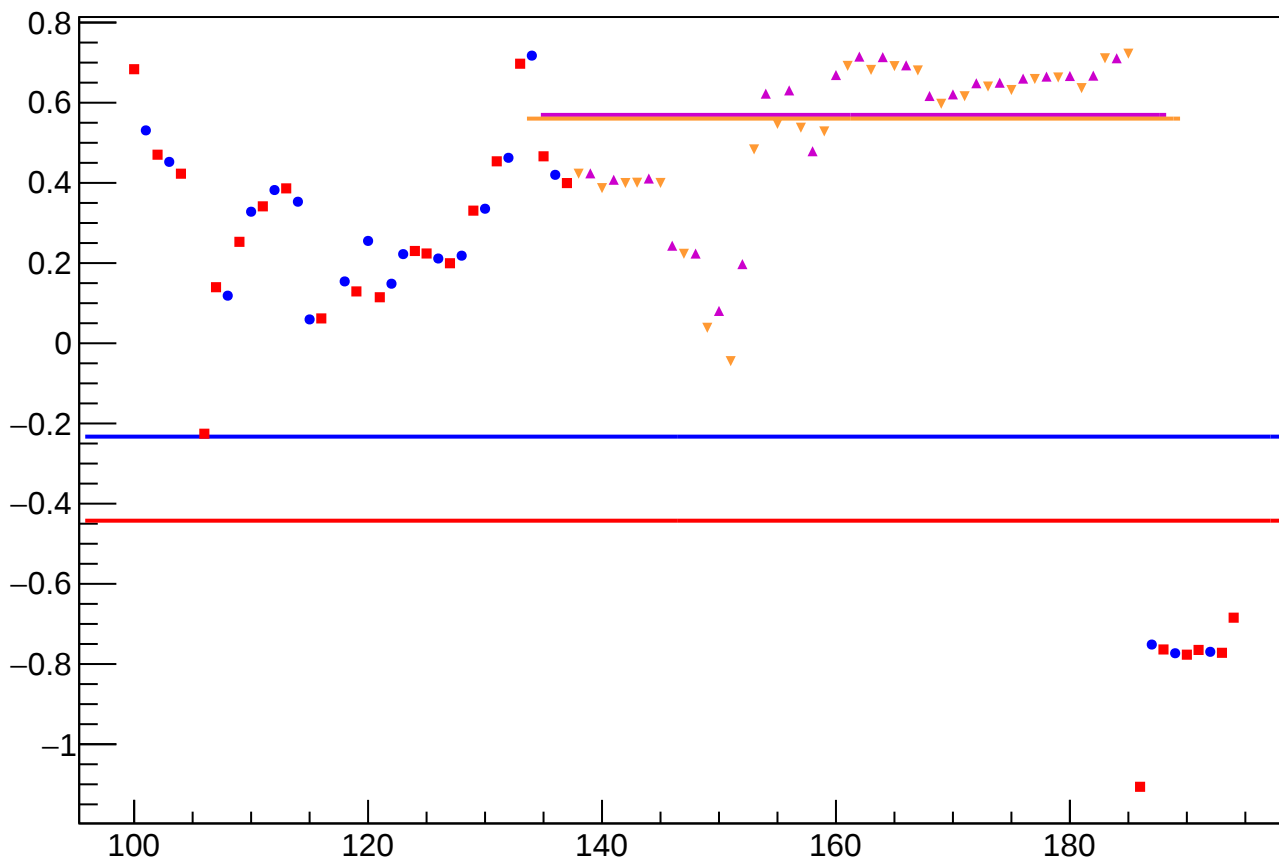
Right: 0.004+/-0.000 χ^2/NDF : 3120651.6/44

In: 0.004+/-0.000 χ^2/NDF :2941557.2/42

Out: 0.004+/-0.000 χ^2/NDF :2729364.8/49

All: 0.004+/-0.000 χ^2/NDF : 5671025.7/92

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.233+/-0.000 χ^2/NDF : 233521940429.2/19

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.442+/-0.000 χ^2/NDF : 358984218667.9/24

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

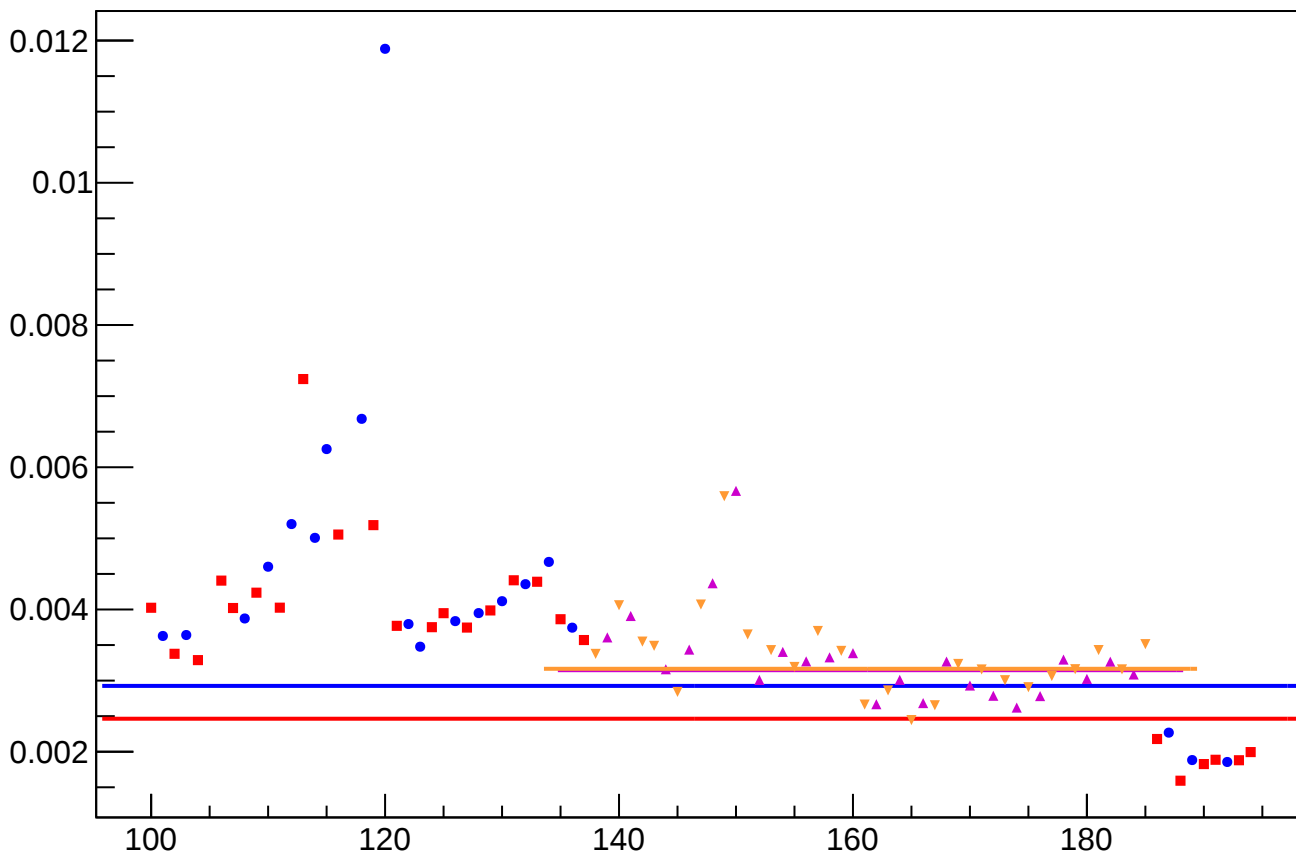
Right: -0.368+/-0.000 χ^2/NDF : 612877220956.3/44

In: 0.316+/-0.000 χ^2/NDF : 593118926511.3/42

Out: 0.114+/-0.000 χ^2/NDF : 1128192285835.7/49

All: 0.203+/-0.000 χ^2/NDF : 1773154304718.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2147409.5/19

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2781672.0/24

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

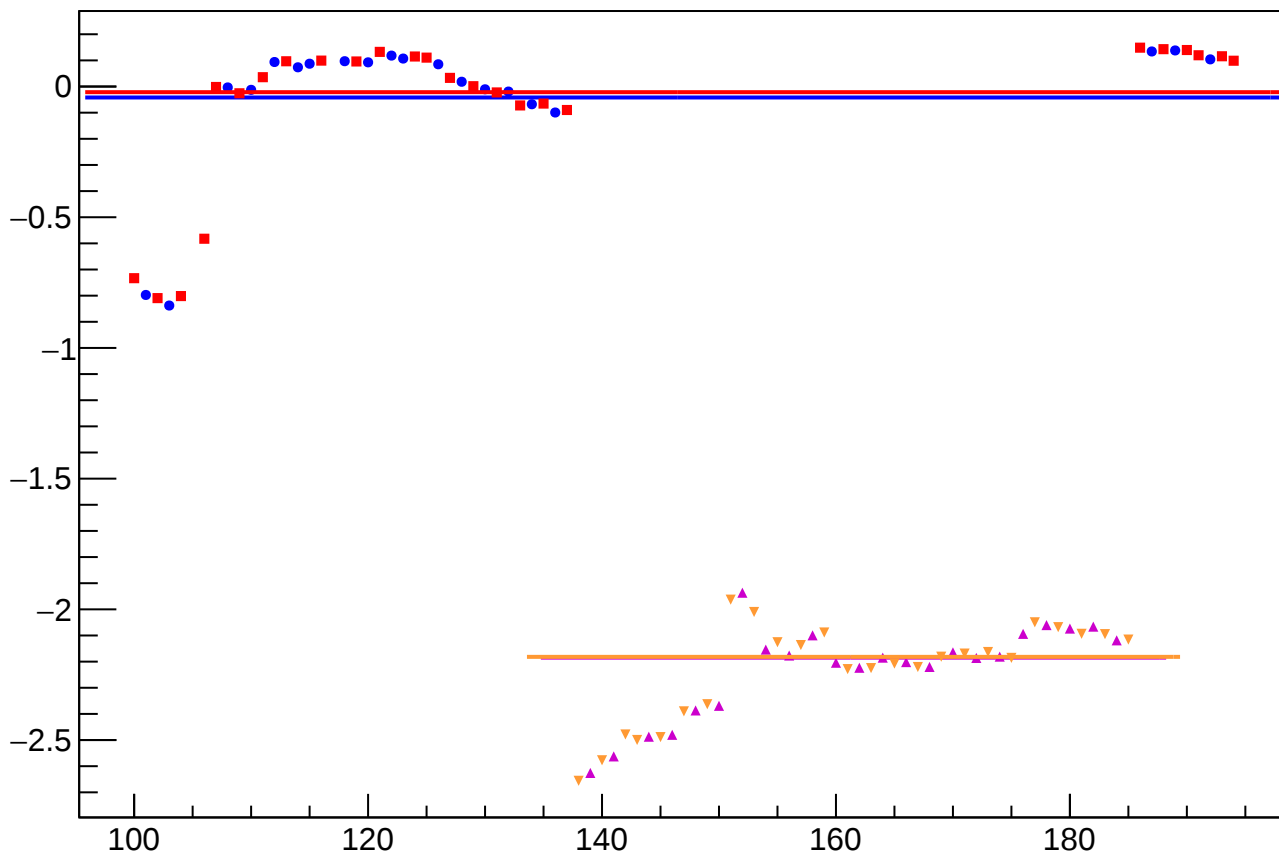
Right: 0.003+/-0.000 χ^2/NDF : 5126624.1/44

In: 0.003+/-0.000 χ^2/NDF : 2911878.1/42

Out: 0.003+/-0.000 χ^2/NDF : 4236375.5/49

All: 0.003+/-0.000 χ^2/NDF : 7275114.8/92

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.042 $\pm$ 0.000 χ^2 /NDF: 5503158986.7/19

Left Out: -2.182 $\pm$ 0.000 χ^2 /NDF: 4008829567.0/24

Right Out: -0.022 $\pm$ 0.000 χ^2 /NDF: 6731966498.9/24

Left In: -2.185 $\pm$ 0.000 χ^2 /NDF: 3372742534.3/22

Left: -2.183 $\pm$ 0.000 χ^2 /NDF: 7382310821.5/47

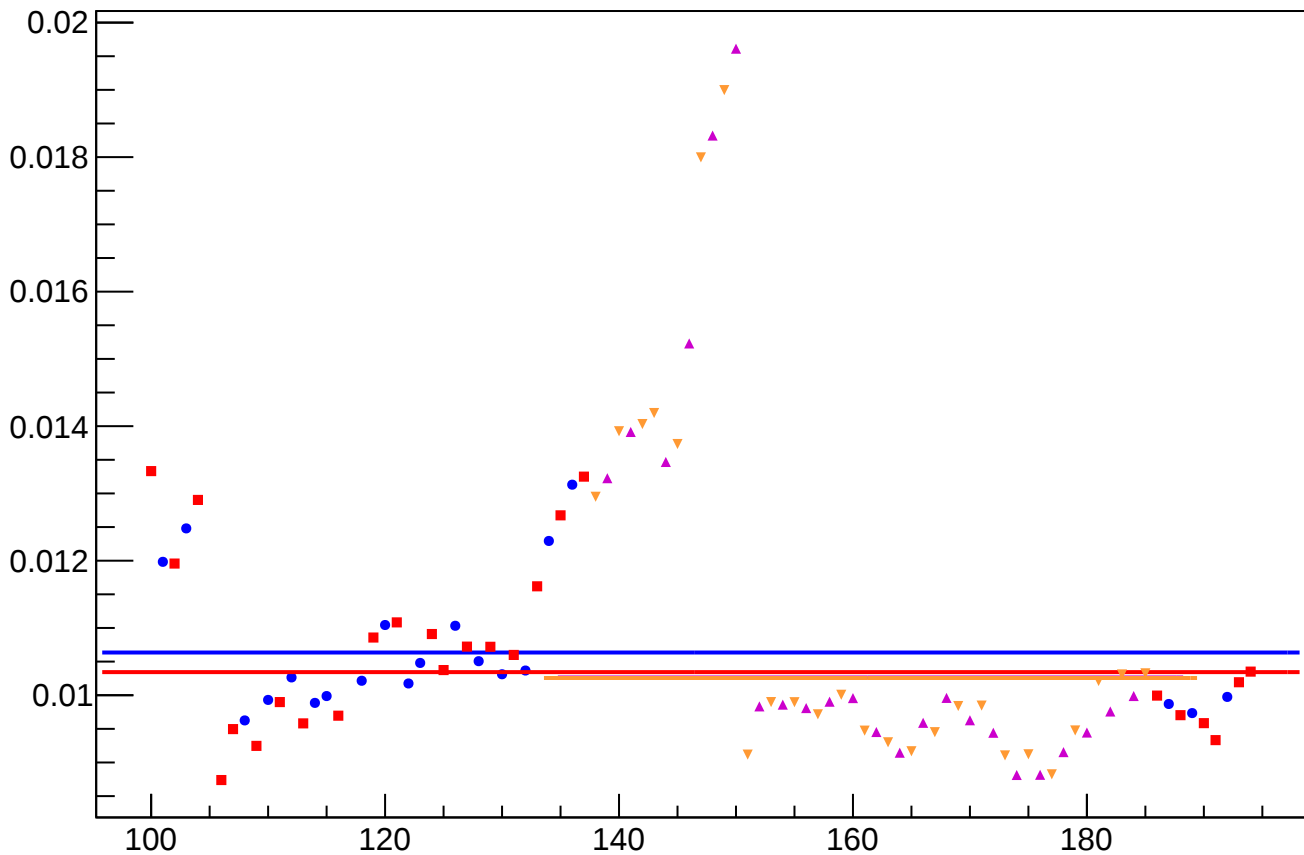
Right: -0.030 $\pm$ 0.000 χ^2 /NDF: 12252190370.2/44

In: -1.513 $\pm$ 0.000 χ^2 /NDF: 235605808849.8/42

Out: -1.389 $\pm$ 0.000 χ^2 /NDF: 298137621629.7/49

All: -1.446 $\pm$ 0.000 χ^2 /NDF: 535628679542.5

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 147023.7/19

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 204500.4/24

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

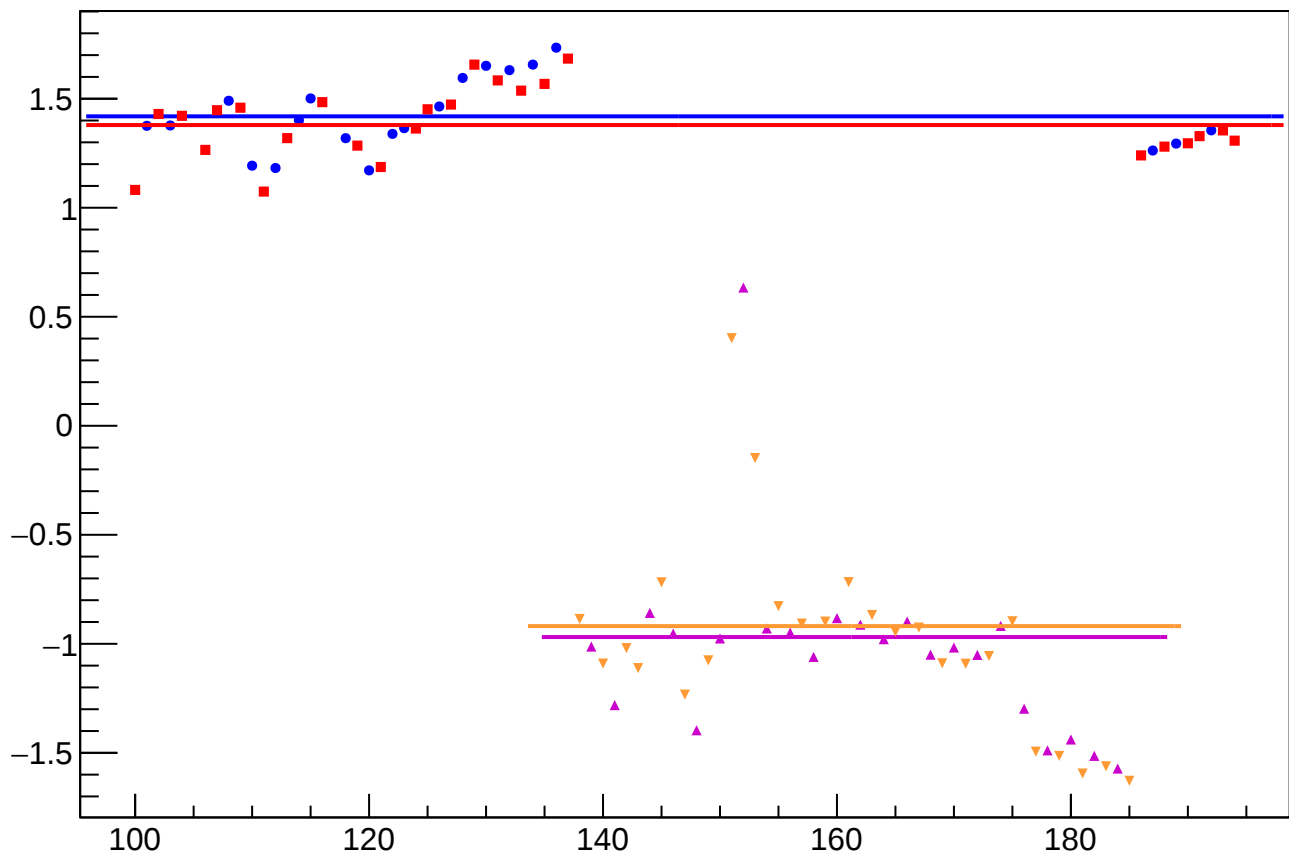
Right: 0.010+/-0.000 χ^2/NDF : 358554.2/44

In: 0.010+/-0.000 χ^2/NDF :1500849.5/42

Out: 0.010+/-0.000 χ^2/NDF :1476059.9/49

All: 0.010+/-0.000 χ^2/NDF : 2979014.5/92

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.419+/-0.000

χ^2/NDF : 3753714392.6/19

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.397+/-0.000

χ^2/NDF : 7176905451.1/44

Right Out: 1.379+/-0.000

χ^2/NDF : 3288813218.2/24

In: -0.053+/-0.000

χ^2/NDF : 582222191705.5/42

Out: 0.074+/-0.000

χ^2/NDF : 634421635949.4/49

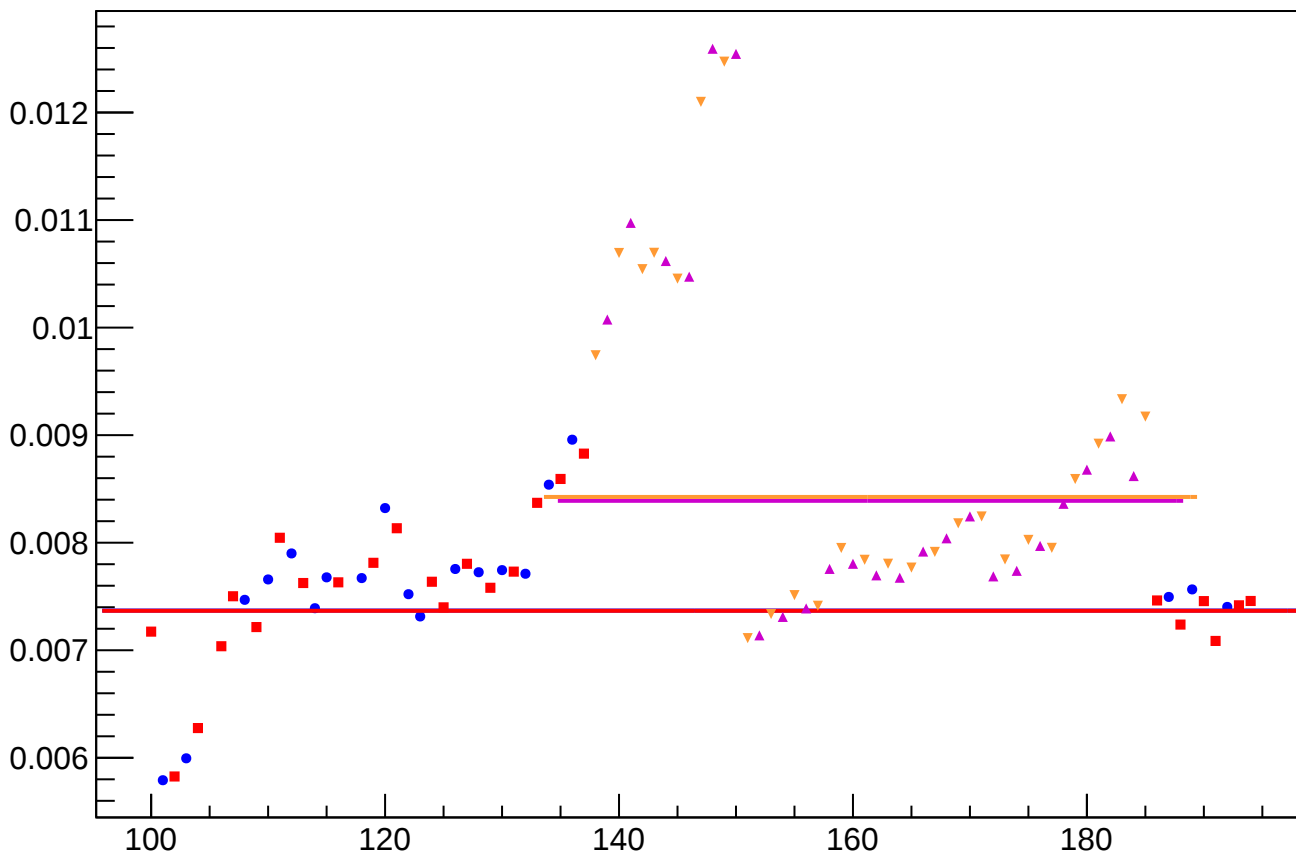
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: 0.015+/-0.000

χ^2/NDF : 1220028817358.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 229531.8/19

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 174330.8/24

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

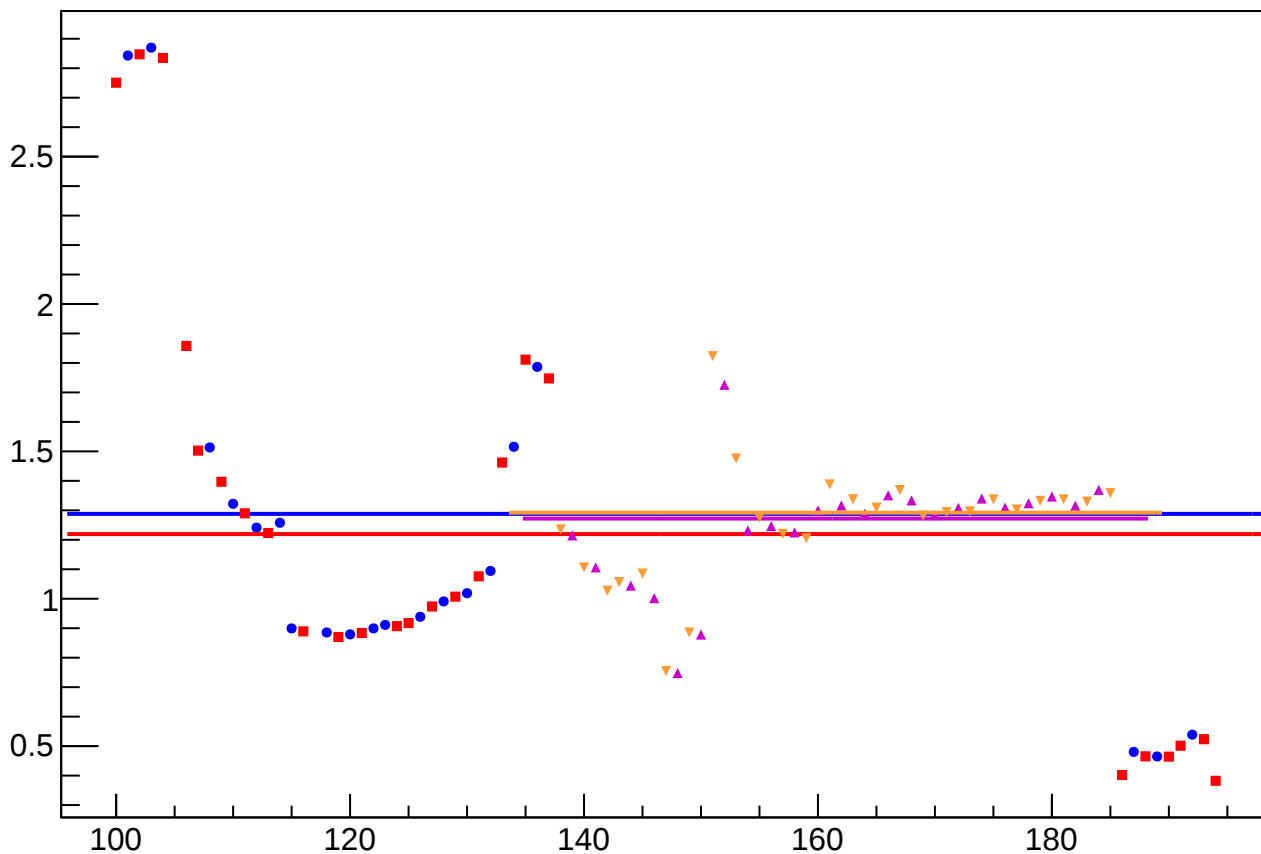
Right: 0.007+/-0.000 χ^2/NDF : 403863.6/44

In: 0.008+/-0.000 χ^2/NDF : 1260509.1/42

Out: 0.008+/-0.000 χ^2/NDF : 1210956.2/49

All: 0.008+/-0.000 χ^2/NDF : 2471849.4/92

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.288 $\pm$ 0.000 χ^2 /NDF: 64397158627.0/19

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.219 $\pm$ 0.000 χ^2 /NDF: 74532715955.5/24

Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2 /NDF: 16930321584.4/47

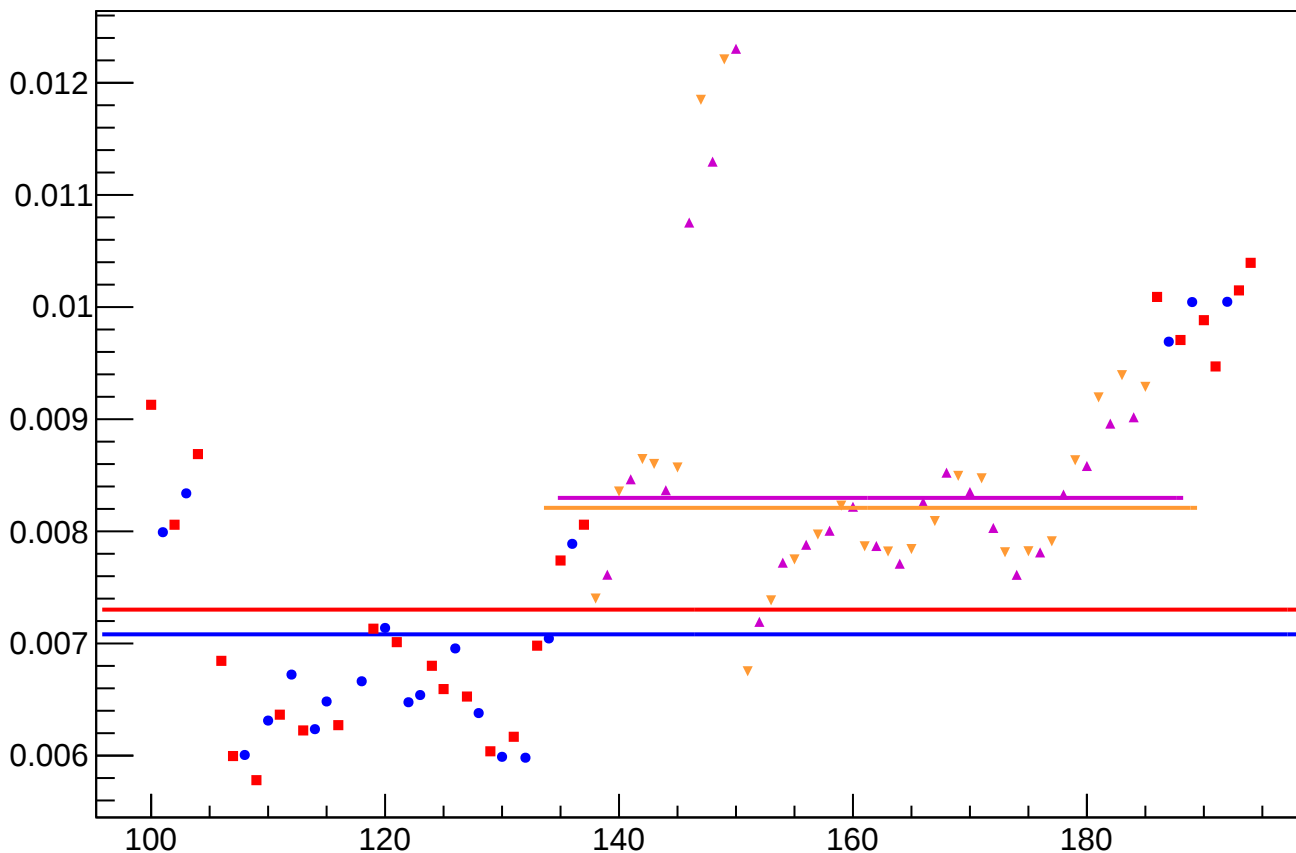
Right: 1.251 $\pm$ 0.000 χ^2 /NDF: 139336570332.7/44

In: 1.278 $\pm$ 0.000 χ^2 /NDF: 71995583945.9/42

Out: 1.262 $\pm$ 0.000 χ^2 /NDF: 84420380644.4/49

All: 1.269 $\pm$ 0.000 χ^2 /NDF: 156475178607.1

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 449494.5/19

Left Out: 0.008+/-0.000 χ^2/NDF :478864.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 804077.5/24

Left In: 0.008+/-0.000 χ^2/NDF :462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

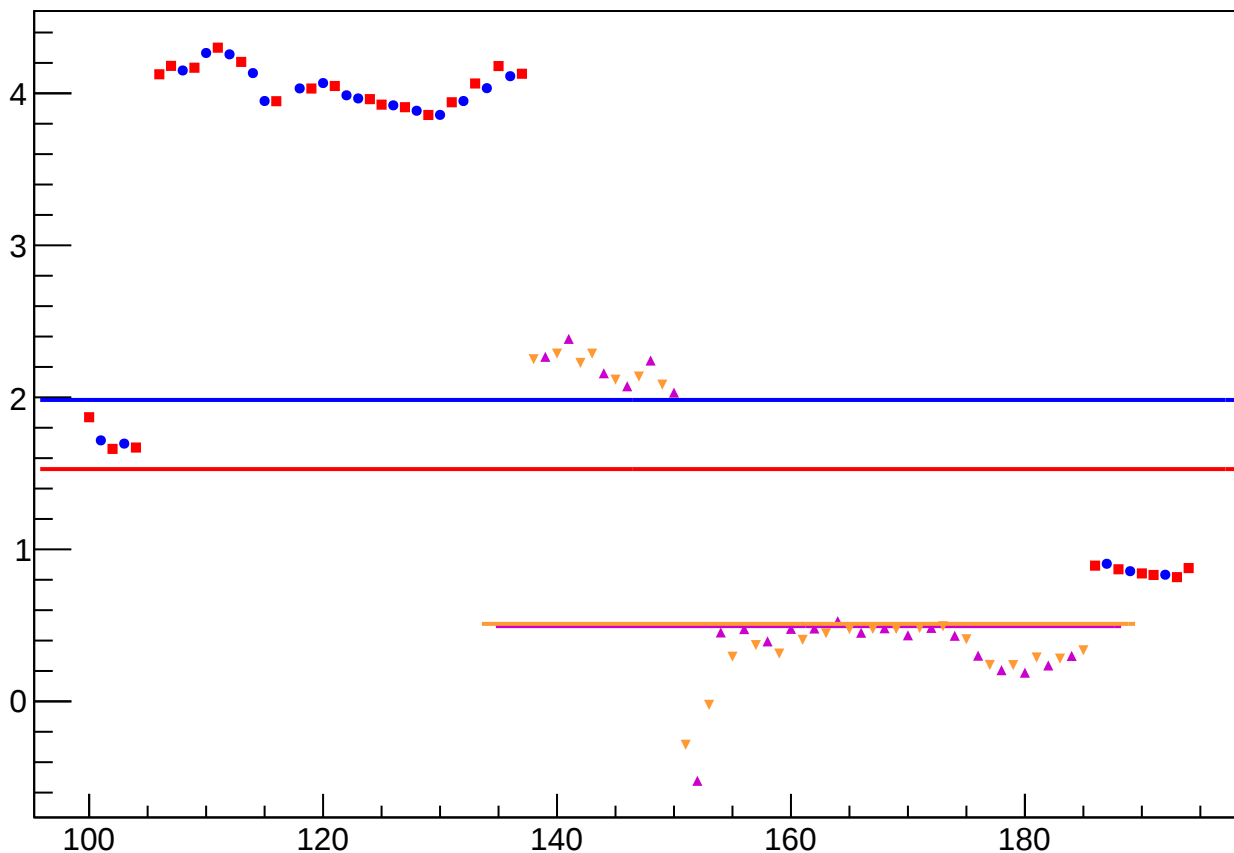
Right: 0.007+/-0.000 χ^2/NDF : 1261978.4/44

In: 0.008+/-0.000 χ^2/NDF :1196493.6/42

Out: 0.008+/-0.000 χ^2/NDF :1464414.5/49

All: 0.008+/-0.000 χ^2/NDF : 2660967.3/92

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.983+/-0.000

χ^2/NDF : 1143998656166.1/19

Left Out: 0.510+/-0.000

χ^2/NDF : 274818814912.4/24

Right Out: 1.528+/-0.000

χ^2/NDF : 1559602360187.9/24

Left In: 0.495+/-0.000

χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000

χ^2/NDF : 543767842878.3/47

Right: 1.689+/-0.000

χ^2/NDF : 2773277440431.9/44

In: 1.101+/-0.000

χ^2/NDF : 2096153598664.8/42

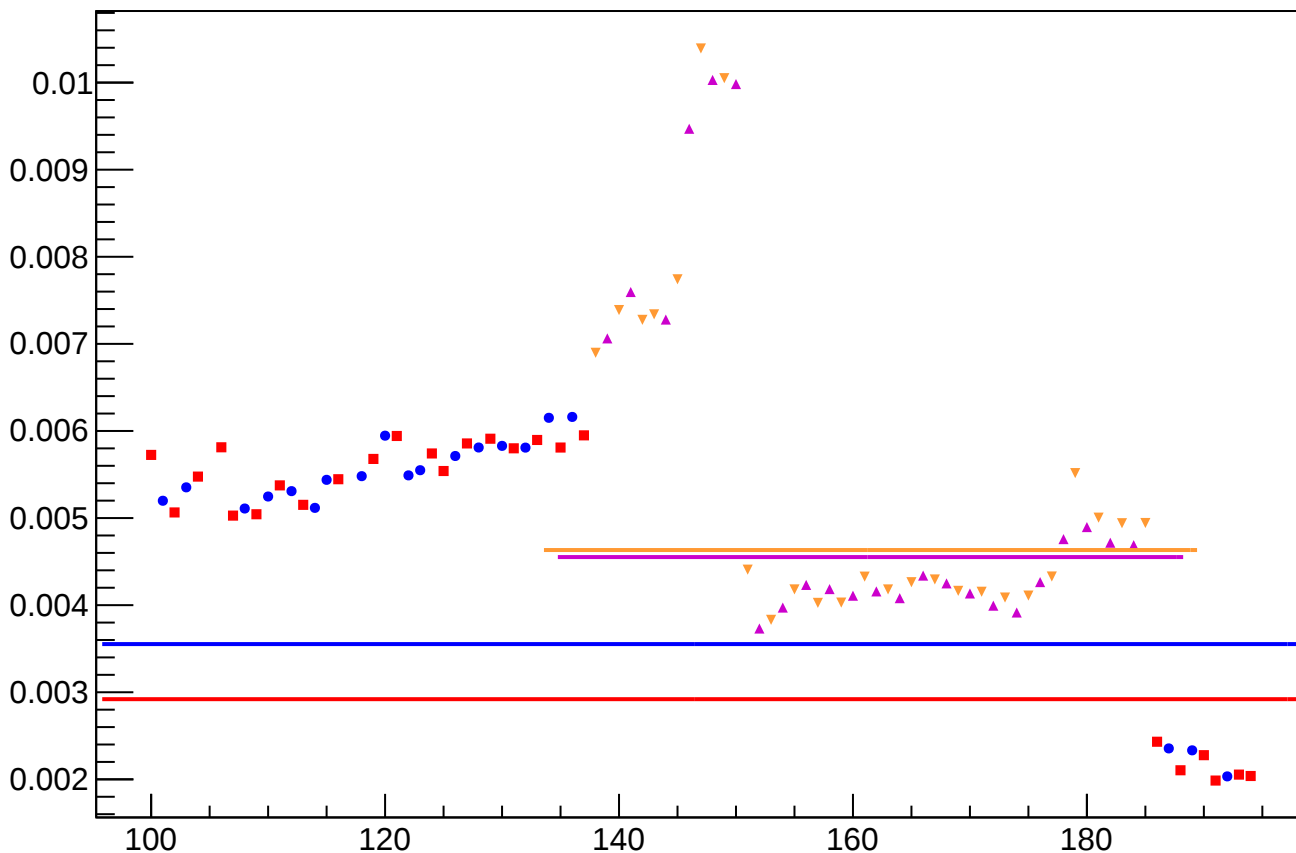
Out: 1.071+/-0.000

χ^2/NDF : 2278156960698.4/49

All: 1.084+/-0.000

χ^2/NDF : 4374964547189.0/100

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 3027303.7/19

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF : 2114007.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2/NDF : 4096058.9/24

Left In: 0.005 $\pm$ 0.000 χ^2/NDF : 2237666.9/22

Left: 0.005 $\pm$ 0.000 χ^2/NDF : 4356682.7/47

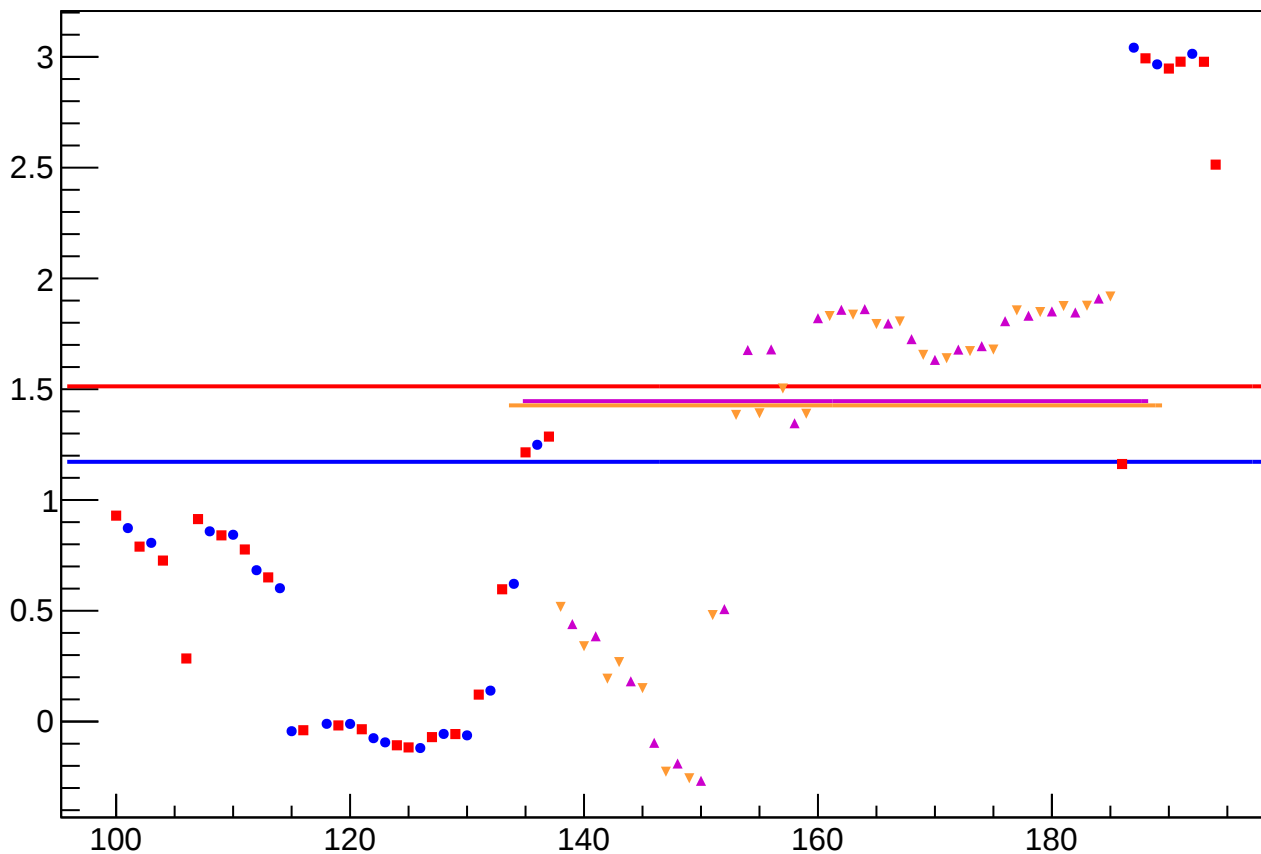
Right: 0.003 $\pm$ 0.000 χ^2/NDF : 7392892.4/44

In: 0.004 $\pm$ 0.000 χ^2/NDF : 5881147.6/42

Out: 0.004 $\pm$ 0.000 χ^2/NDF : 8720665.2/49

All: 0.004 $\pm$ 0.000 χ^2/NDF : 14907857.5/92

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.172 $\pm$ 0.000 χ^2 /NDF: 72504992322.7/19

Left Out: 1.427 $\pm$ 0.000 χ^2 /NDF: 49990787038.3/24

Right Out: 1.513 $\pm$ 0.000 χ^2 /NDF: 97303779695.2/24

Left In: 1.446 $\pm$ 0.000 χ^2 /NDF: 53752493130.3/22

Left: 1.436 $\pm$ 0.000 χ^2 /NDF: 103768857952.7/47

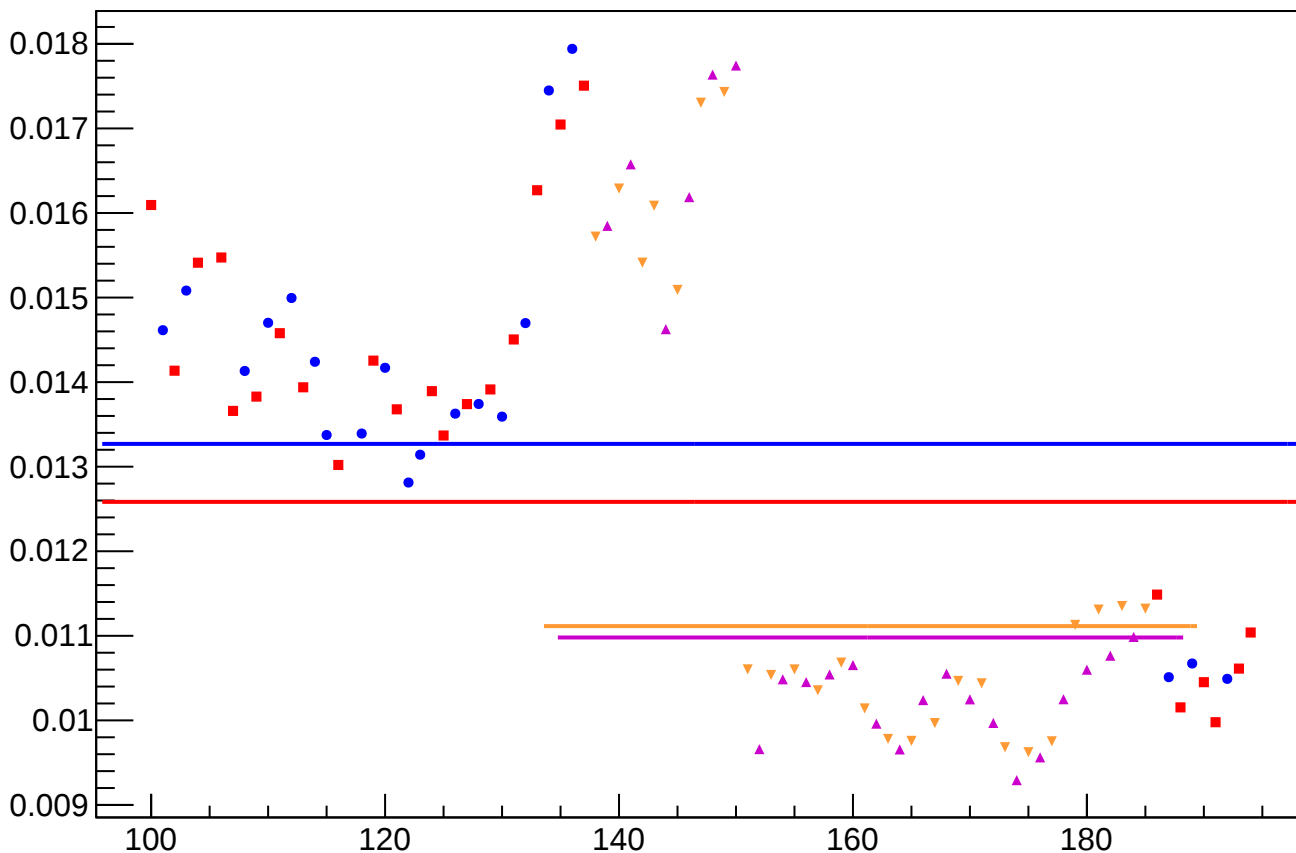
Right: 1.371 $\pm$ 0.000 χ^2 /NDF: 172881182118.5/44

In: 1.378 $\pm$ 0.000 χ^2 /NDF: 128811164698.0/42

Out: 1.454 $\pm$ 0.000 χ^2 /NDF: 147619753465.4/49

All: 1.418 $\pm$ 0.000 χ^2 /NDF: 276980836085.0

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 398825.0/19

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 546797.9/24

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

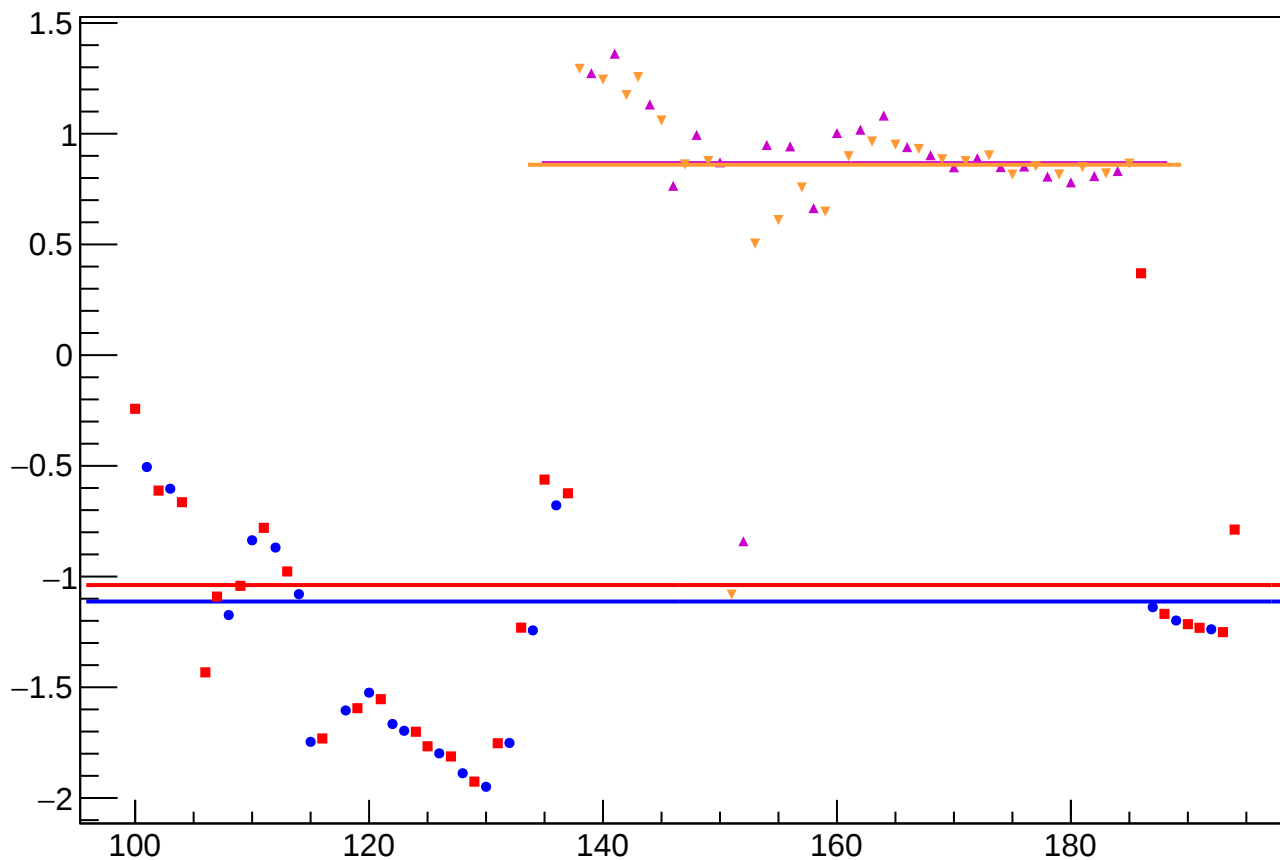
Right: 0.013+/-0.000 χ^2/NDF : 970509.3/44

In: 0.012+/-0.000 χ^2/NDF :2020667.0/42

Out: 0.012+/-0.000 χ^2/NDF :1964330.7/49

All: 0.012+/-0.000 χ^2/NDF : 3985087.9/92

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.113 ± 0.000 $\chi^2/\text{NDF}: 56079657888.9/19$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 126335891175.4/24$

Right Out: -1.038 ± 0.000 $\chi^2/\text{NDF}: 65038959210.1/24$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

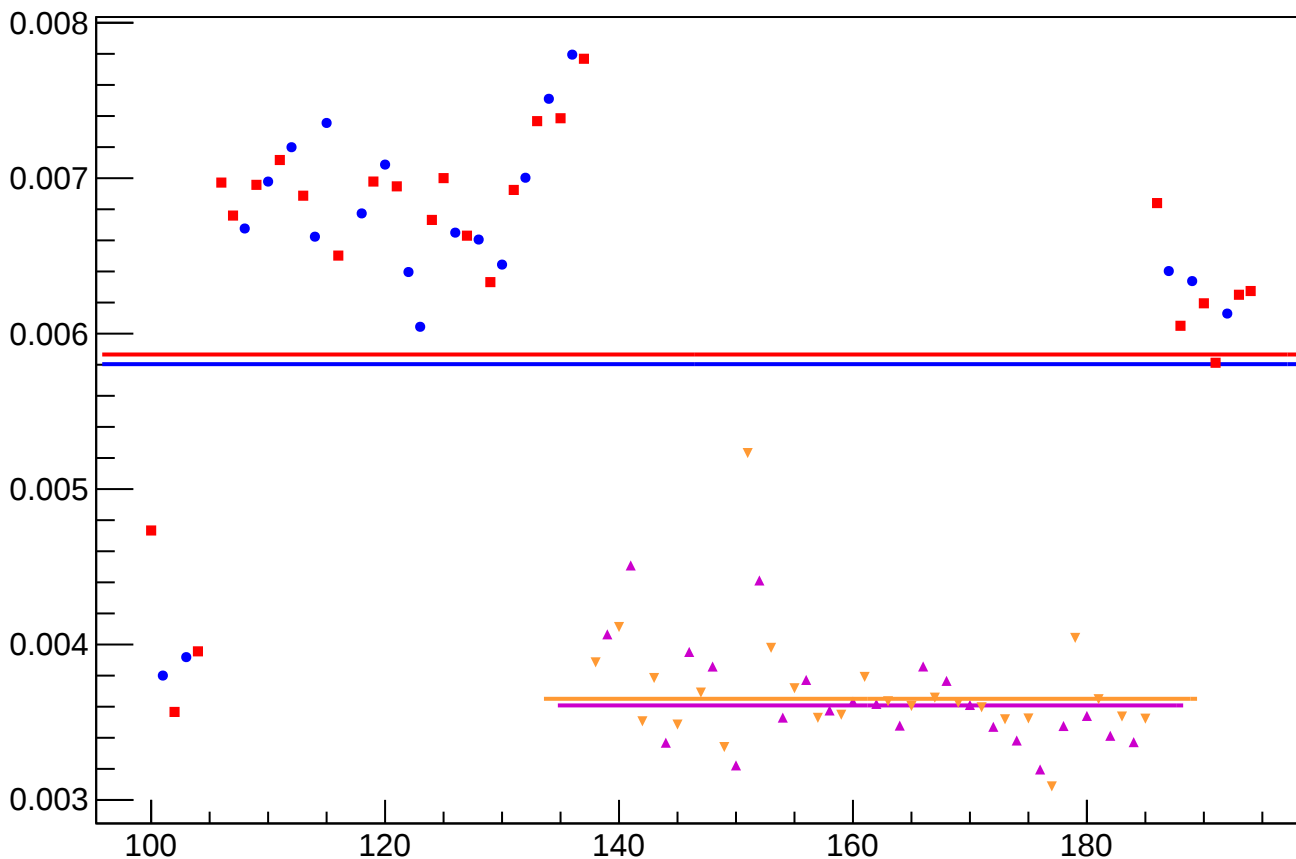
Right: -1.071 ± 0.000 $\chi^2/\text{NDF}: 121791873230.5/44$

In: 0.563 ± 0.000 $\chi^2/\text{NDF}: 930095181215.1/42$

Out: 0.518 ± 0.000 $\chi^2/\text{NDF}: 1004416604021.0/49$

All: 0.540 ± 0.000 $\chi^2/\text{NDF}: 1935993260625.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 854750.0/19

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 960916.7/24

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

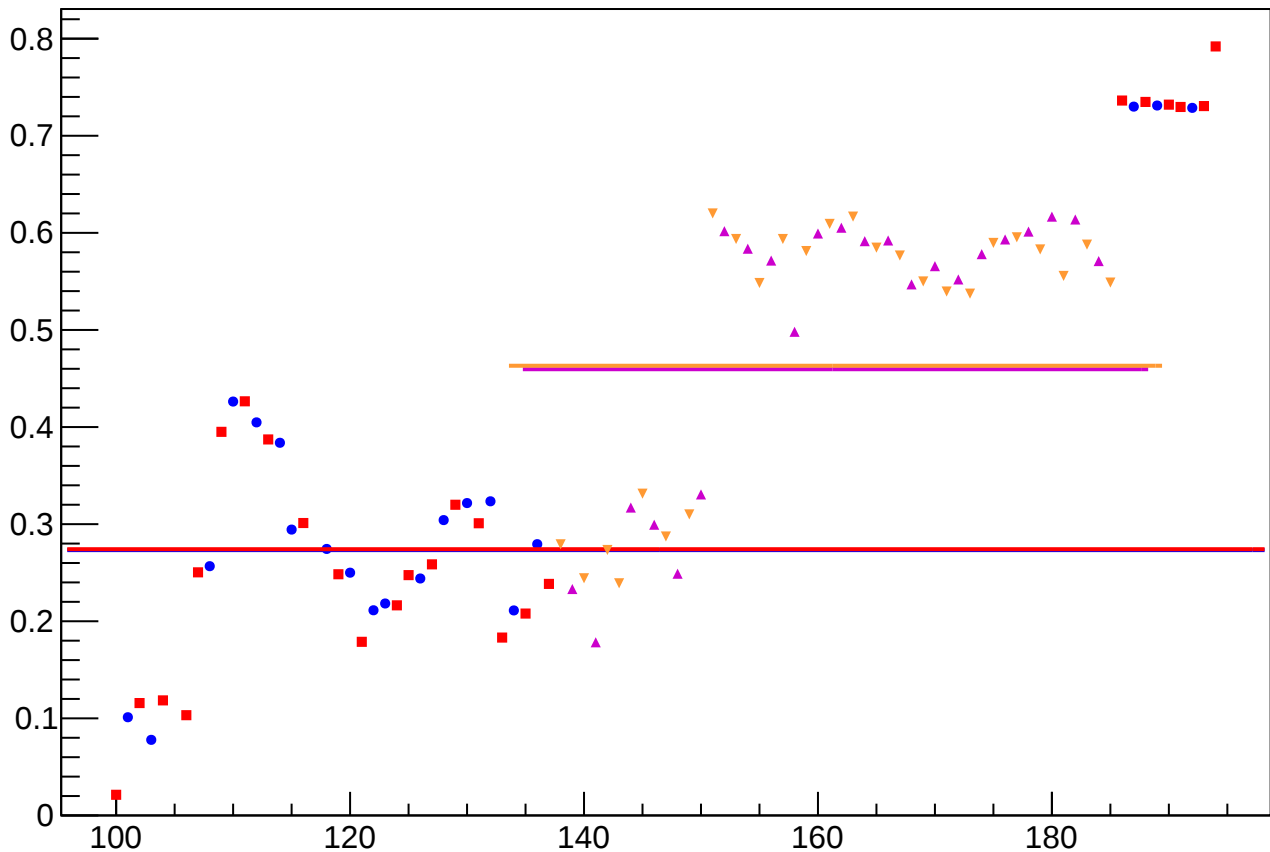
Right: 0.006+/-0.000 χ^2/NDF : 1816609.6/44

In: 0.004+/-0.000 χ^2/NDF :2870477.5/42

Out: 0.004+/-0.000 χ^2/NDF :3412104.0/49

All: 0.004+/-0.000 χ^2/NDF : 6298559.2/92

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.273+/-0.000

χ^2/NDF : 41788217690.3/19

Left: 0.461+/-0.000

χ^2/NDF : 207093695005.5/47

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

Right: 0.274+/-0.000

χ^2/NDF : 118782616135.7/44

Right Out: 0.274+/-0.000

χ^2/NDF : 76993180390.6/24

In: 0.390+/-0.000

χ^2/NDF : 201164269734.3/42

Out: 0.390+/-0.000

χ^2/NDF : 243338125125.3/49

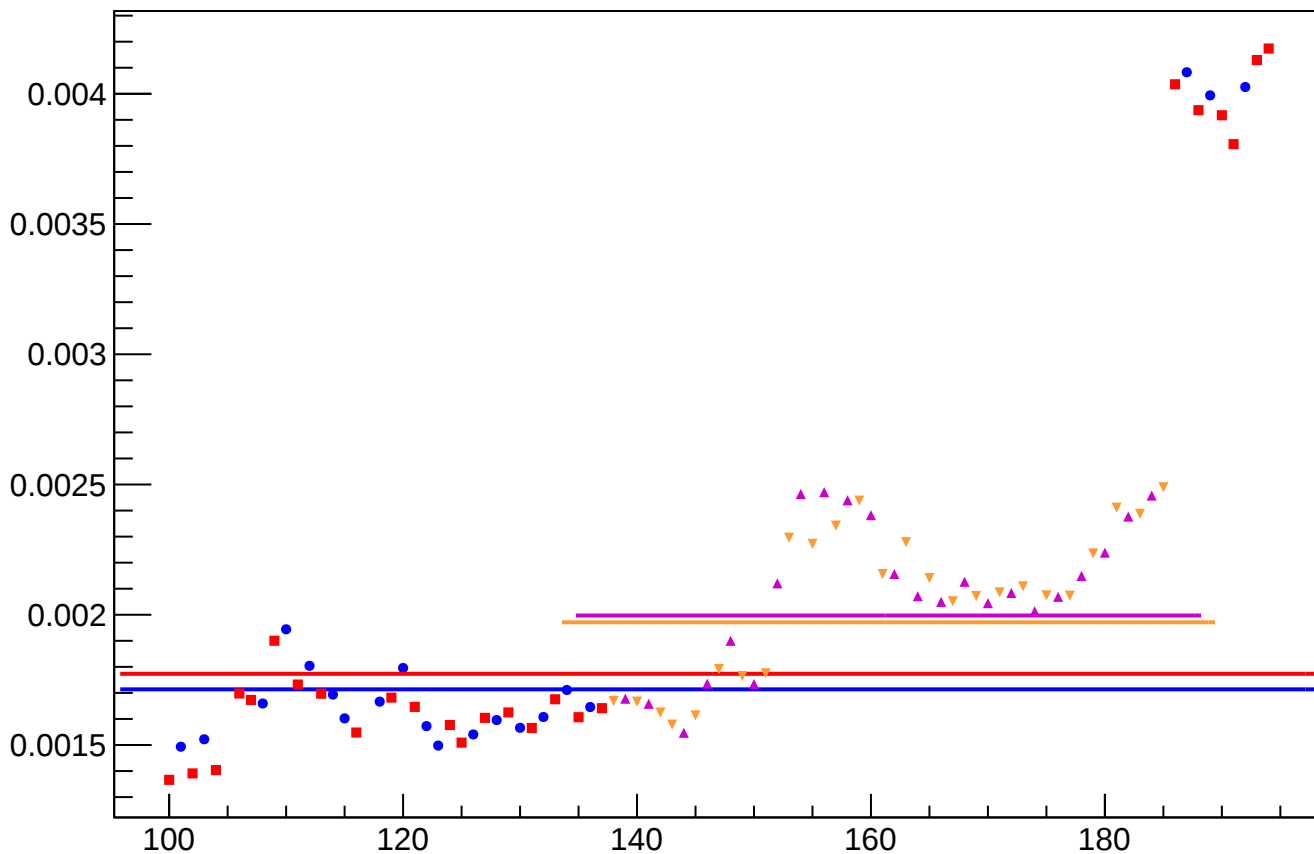
Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.390+/-0.000

χ^2/NDF : 444502417703.2

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1099956.3/19

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2410947.7/24

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

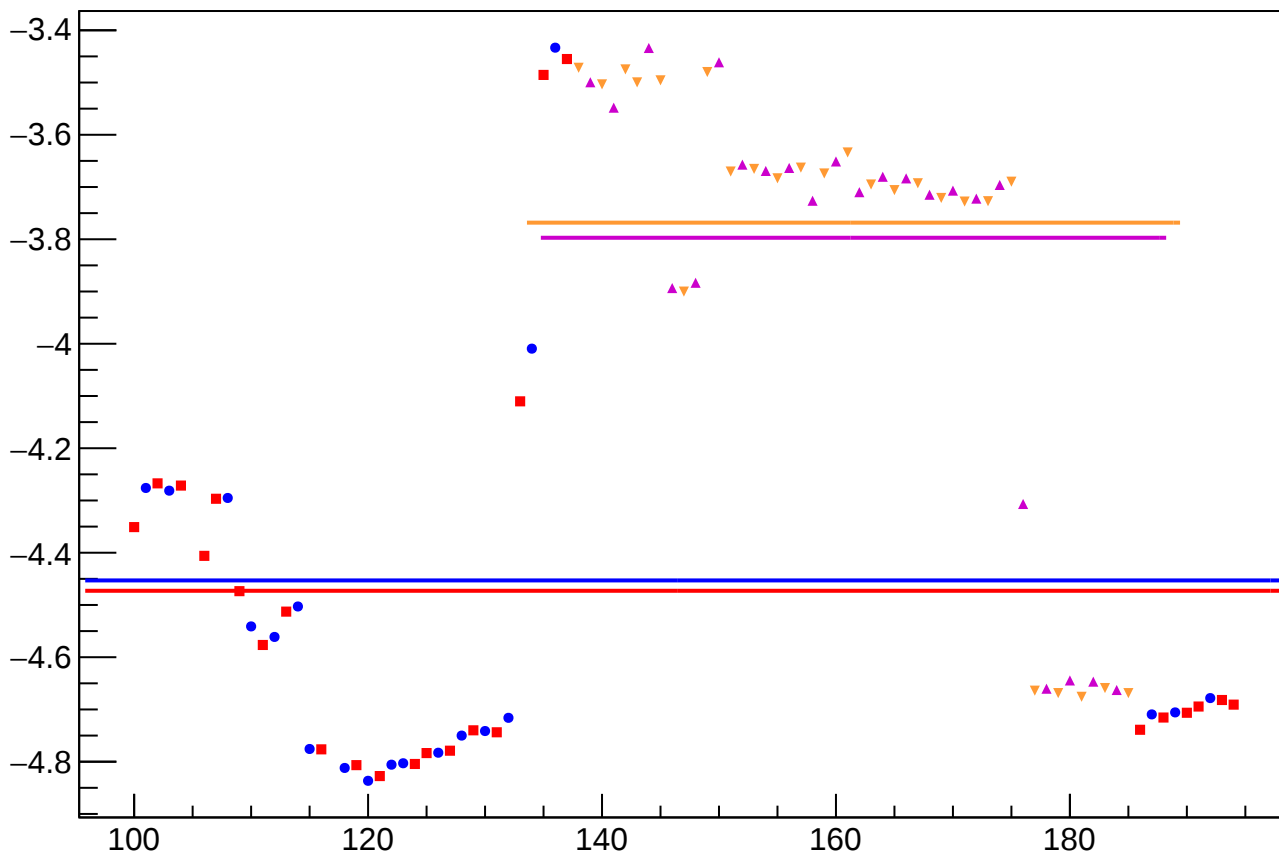
Right: 0.002+/-0.000 χ^2/NDF : 3520560.5/44

In: 0.002+/-0.000 χ^2/NDF : 2020155.2/42

Out: 0.002+/-0.000 χ^2/NDF : 3281070.3/49

All: 0.002+/-0.000 χ^2/NDF : 5301314.1/92

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.453+/-0.000 χ^2/NDF : 400916719127.5/19

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.473+/-0.000 χ^2/NDF : 345991679318.7/24

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

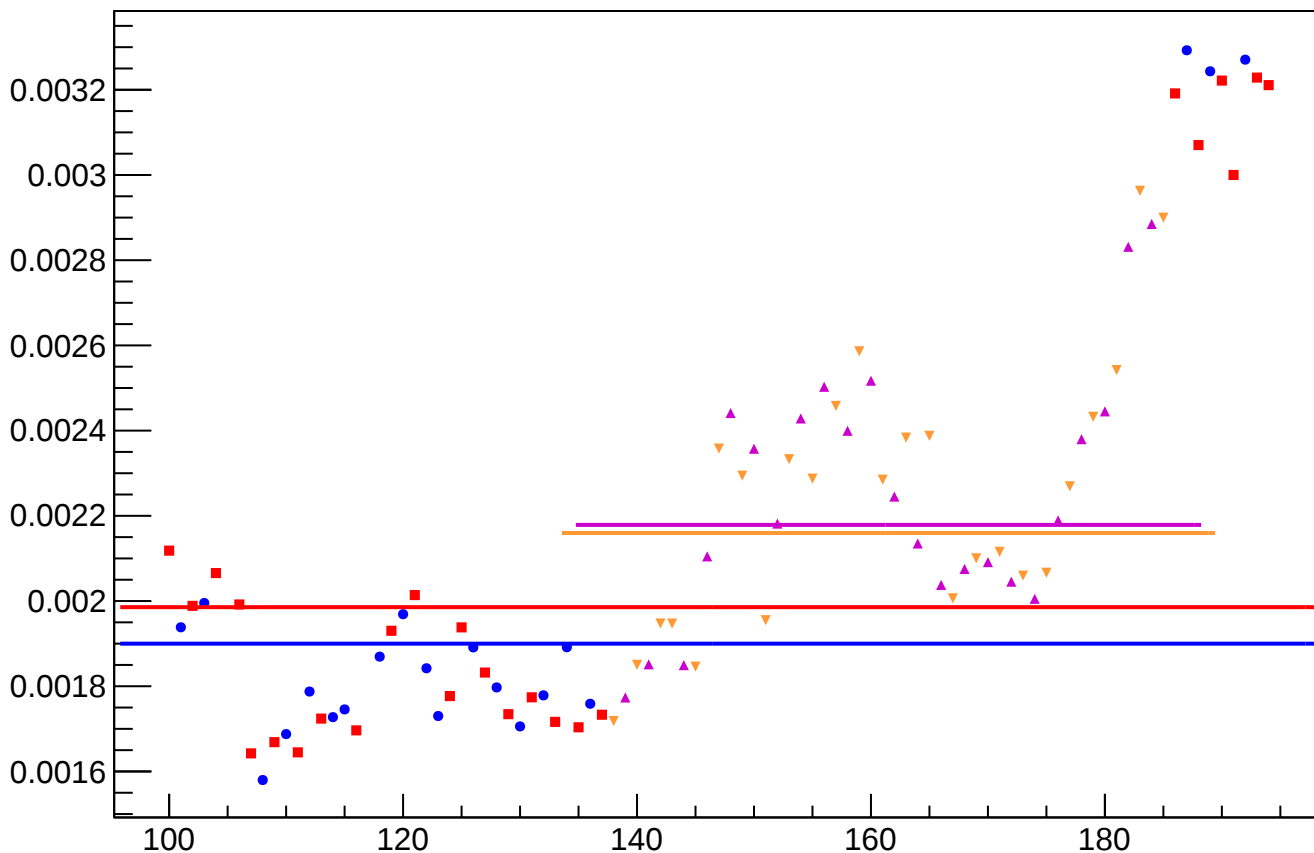
Right: -4.464+/-0.000 χ^2/NDF : 747357629610.8/44

In: -4.043+/-0.000 χ^2/NDF : 1418935199079.2/42

Out: -4.045+/-0.000 χ^2/NDF : 1605691097300.1/49

All: -4.044+/-0.000 χ^2/NDF : 3024632496751

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 606430.4/19

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 1172041.1/24

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

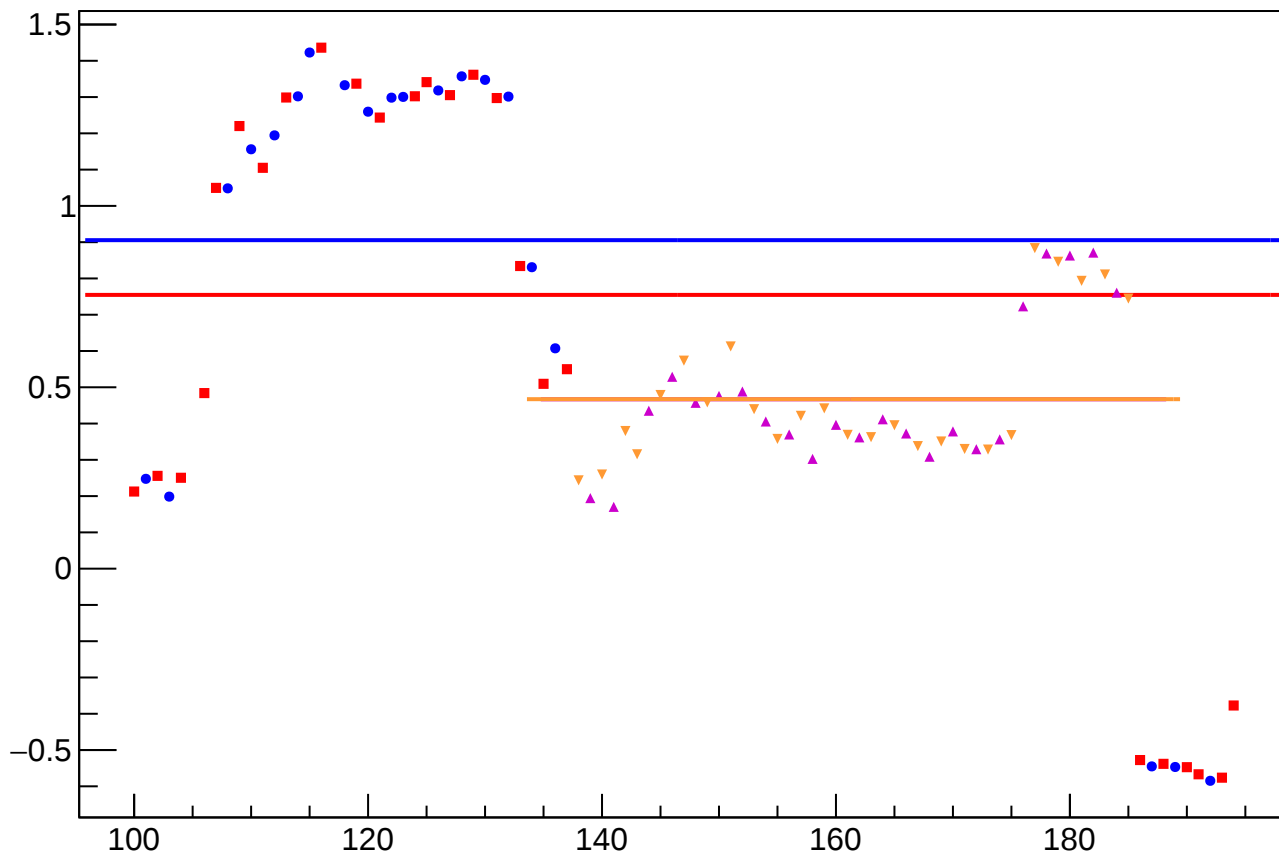
Right: 0.002+/-0.000 χ^2/NDF : 1795242.6/44

In: 0.002+/-0.000 χ^2/NDF :1276797.5/42

Out: 0.002+/-0.000 χ^2/NDF :1810520.5/49

All: 0.002+/-0.000 χ^2/NDF : 3089092.1/92

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.906 $\pm$ 0.000 χ^2 /NDF: 52266050507.9/19

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.755 $\pm$ 0.000 χ^2 /NDF: 82258497818.0/24

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 8036741308.0/22

Left: 0.467 $\pm$ 0.000 χ^2 /NDF: 15396100488.4/47

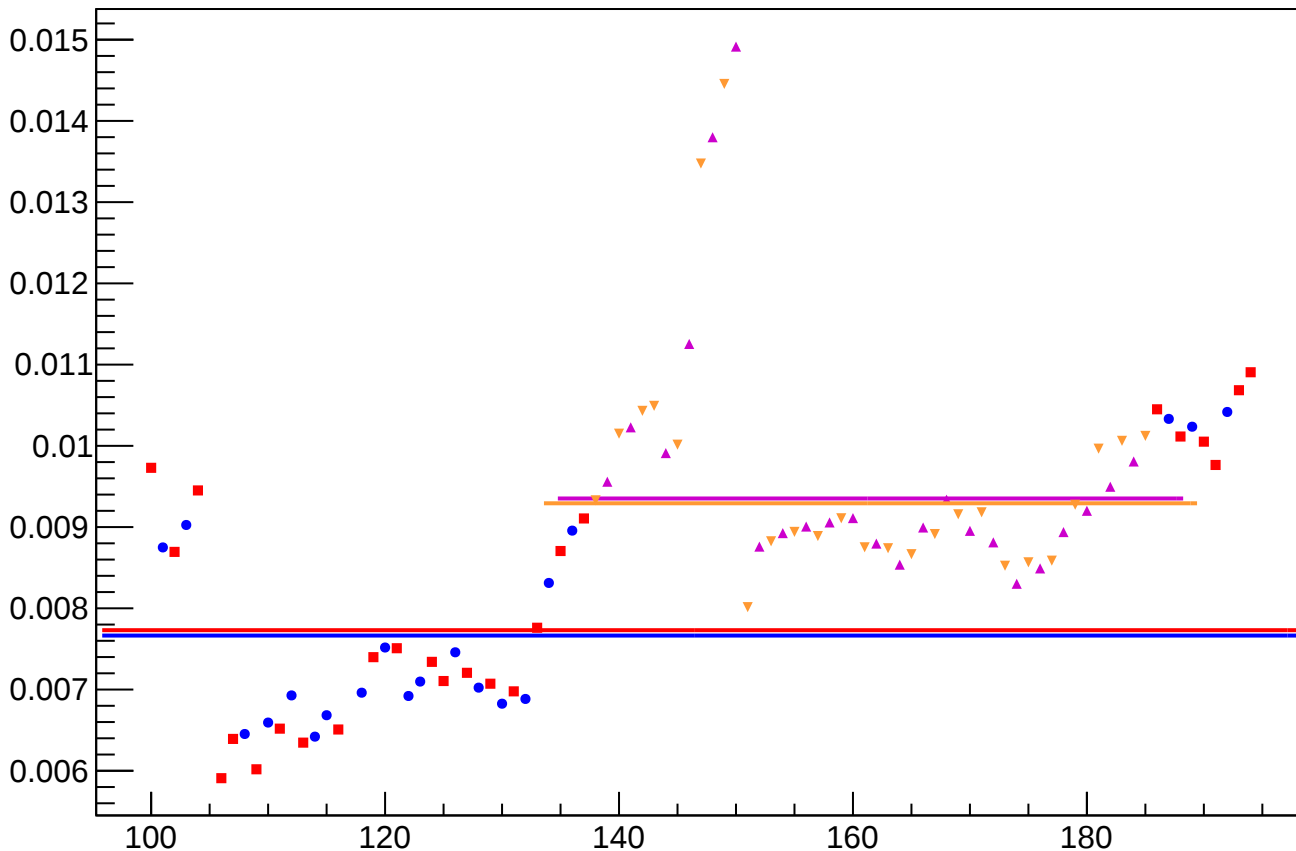
Right: 0.822 $\pm$ 0.000 χ^2 /NDF: 136241521951.1/44

In: 0.648 $\pm$ 0.000 χ^2 /NDF: 75713268656.8/42

Out: 0.596 $\pm$ 0.000 χ^2 /NDF: 97339581360.3/49

All: 0.620 $\pm$ 0.000 χ^2 /NDF: 173527614499.7

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 411822.5/19

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 825969.4/24

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

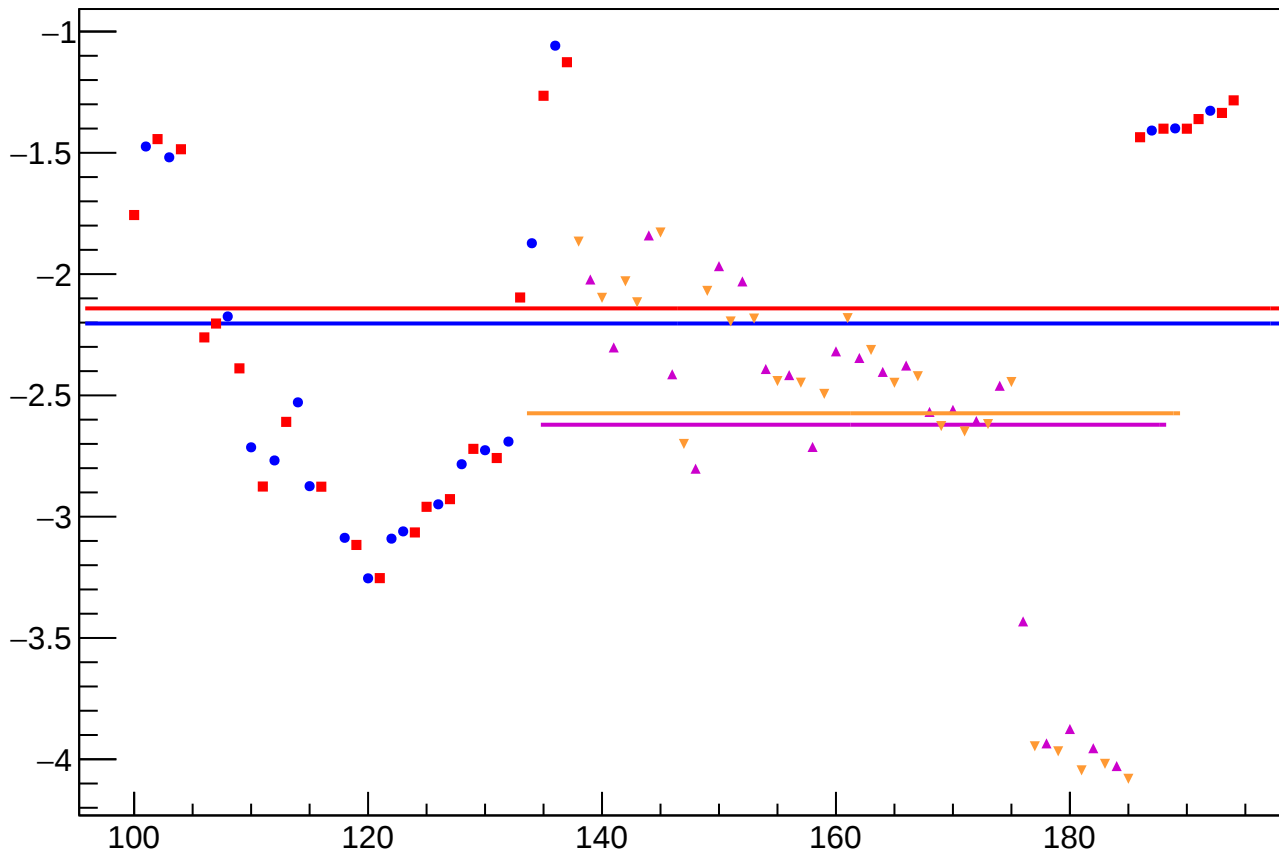
Right: 0.008+/-0.000 χ^2/NDF : 1238452.4/44

In: 0.009+/-0.000 χ^2/NDF :1425290.4/42

Out: 0.009+/-0.000 χ^2/NDF :1810229.2/49

All: 0.009+/-0.000 χ^2/NDF : 3236885.0/92

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.204+/-0.000 χ^2/NDF : 86746082050.4/19

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -2.141+/-0.000 χ^2/NDF : 93184101332.5/24

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

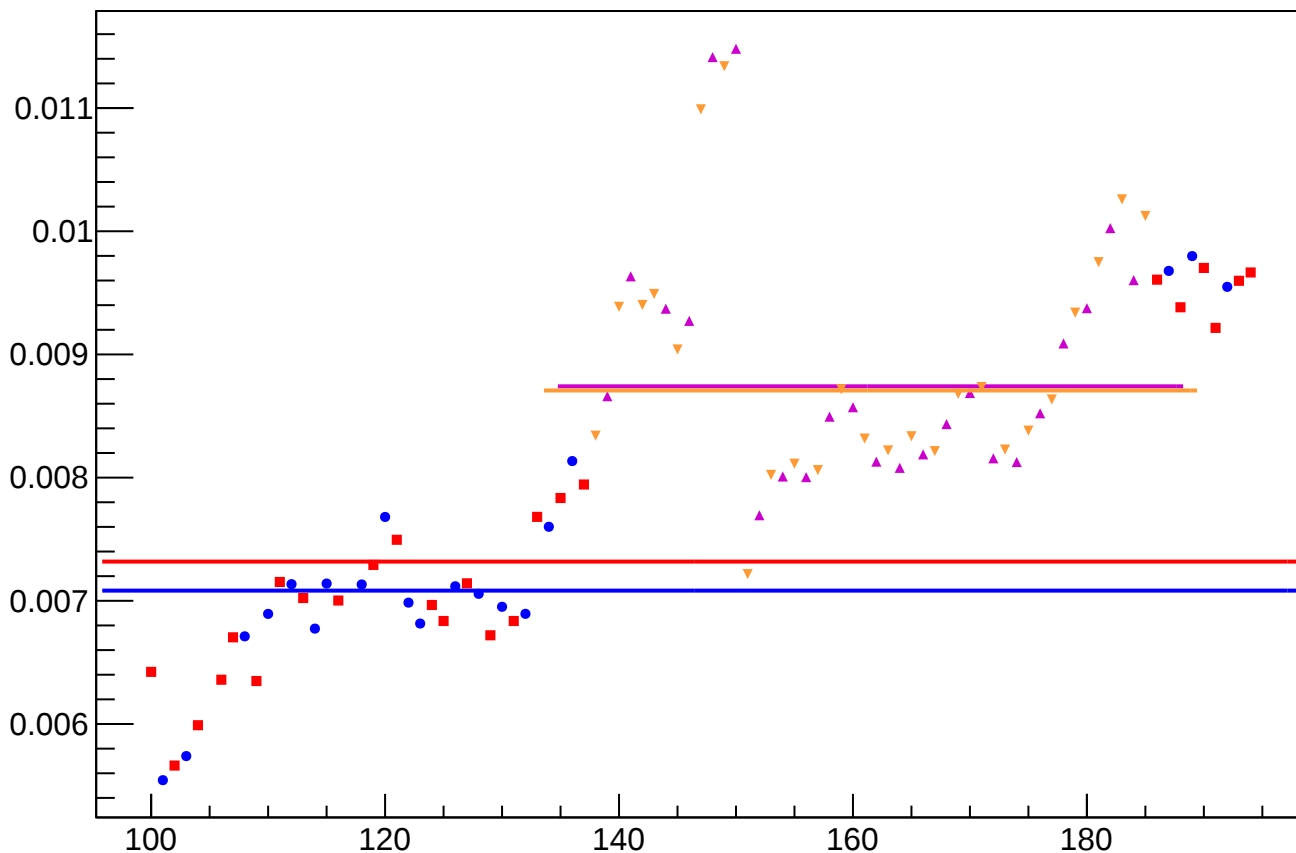
Right: -2.170+/-0.000 χ^2/NDF : 180267173497.7/44

In: -2.447+/-0.000 χ^2/NDF : 183864194903.5/42

Out: -2.382+/-0.000 χ^2/NDF : 212235378109.5/49

All: -2.413+/-0.000 χ^2/NDF : 396966822796.4/100

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 404682.8/19

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 587955.1/24

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

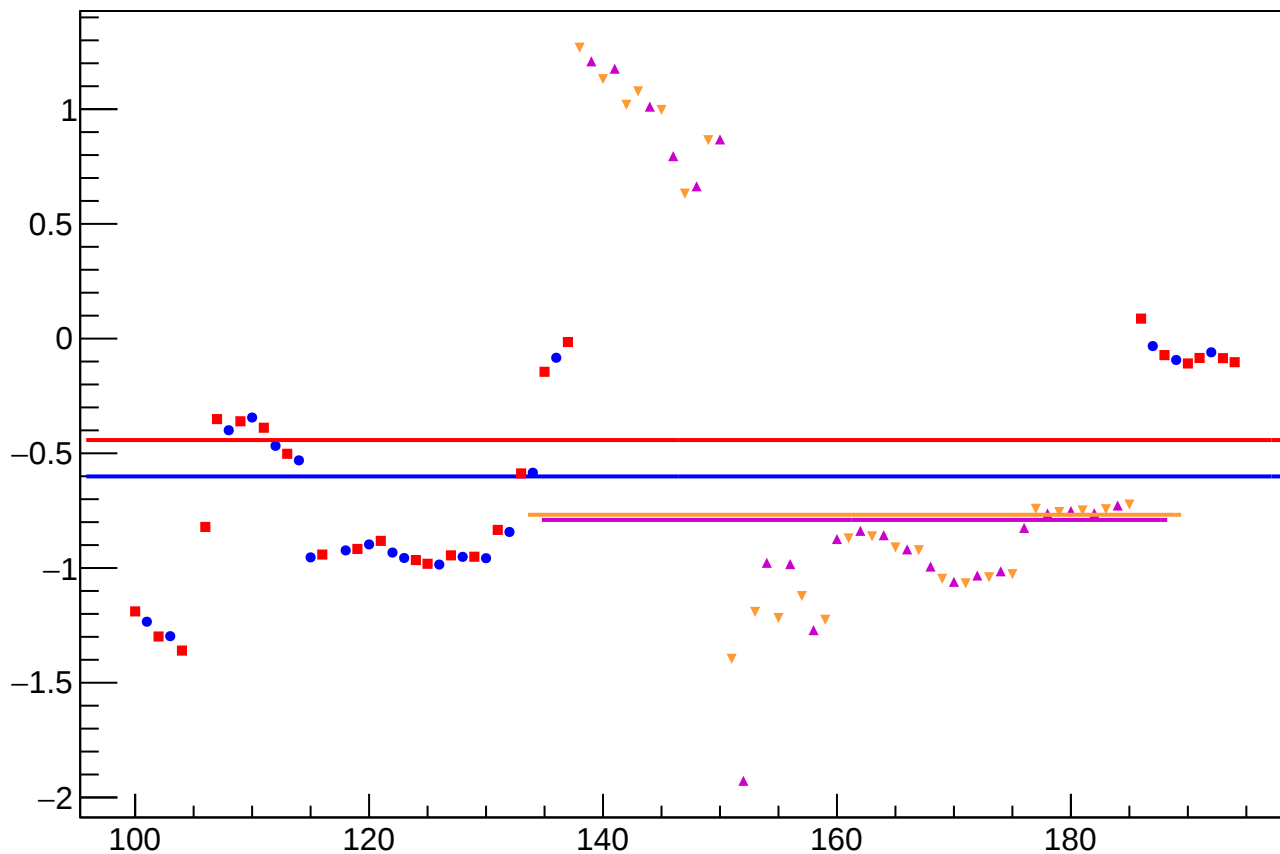
Right: 0.007+/-0.000 χ^2/NDF : 1002305.2/44

In: 0.008+/-0.000 χ^2/NDF :1271804.7/42

Out: 0.008+/-0.000 χ^2/NDF :1367553.5/49

All: 0.008+/-0.000 χ^2/NDF : 2640010.4/92

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.601 ± 0.000 $\chi^2/\text{NDF}: 16574858828.7/19$

Left Out: -0.768 ± 0.000 $\chi^2/\text{NDF}: 120774855982.9/24$

Right Out: -0.442 ± 0.000 $\chi^2/\text{NDF}: 23228260715.2/24$

Left In: -0.790 ± 0.000 $\chi^2/\text{NDF}: 123452478408.2/22$

Left: -0.779 ± 0.000 $\chi^2/\text{NDF}: 244297726249.8/47$

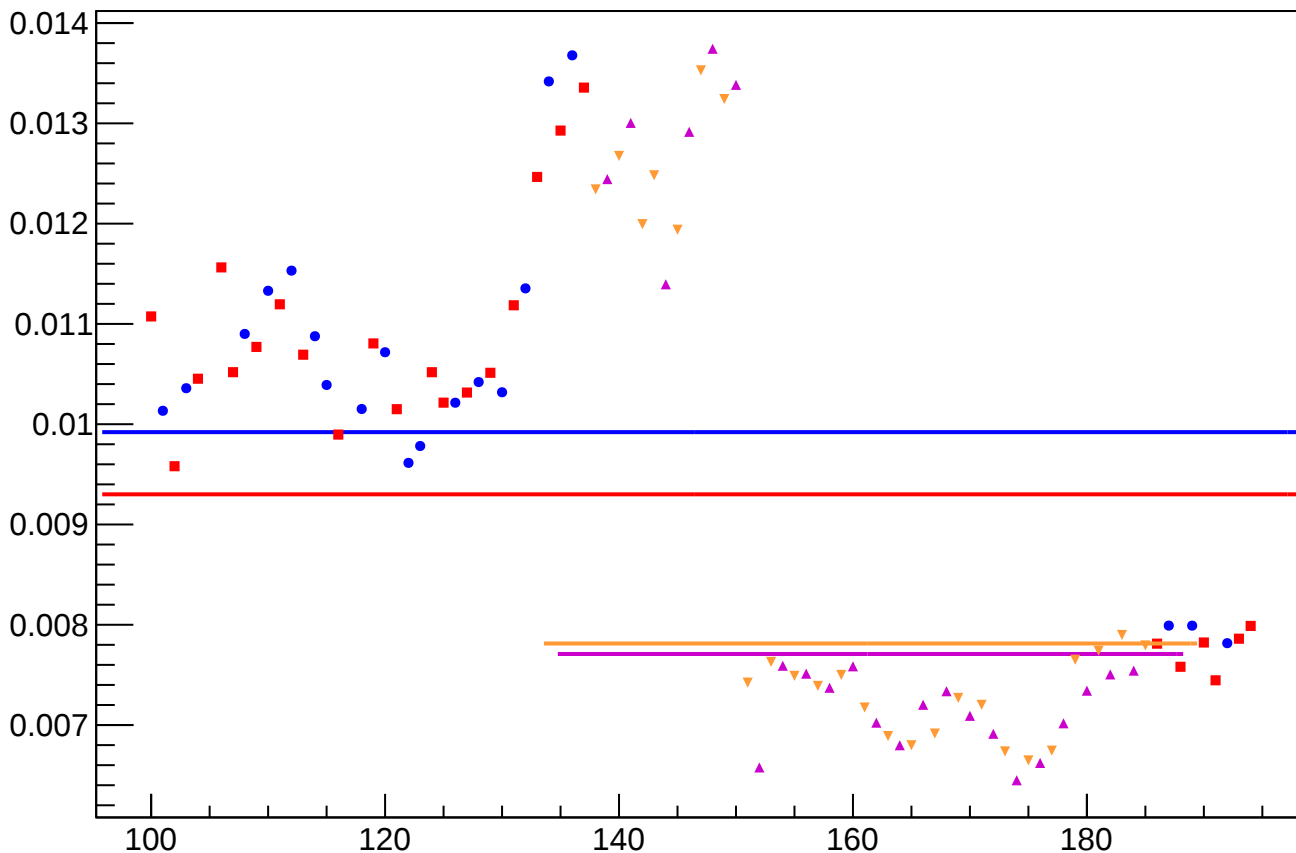
Right: -0.507 ± 0.000 $\chi^2/\text{NDF}: 40995516440.6/44$

In: -0.747 ± 0.000 $\chi^2/\text{NDF}: 142258693895.1/42$

Out: -0.673 ± 0.000 $\chi^2/\text{NDF}: 152703976290.4/49$

All: -0.708 ± 0.000 $\chi^2/\text{NDF}: 295990060009.2$

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 412402.6/19

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1705997.6/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 606109.1/24

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:1746653.6/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 3455681.9/47

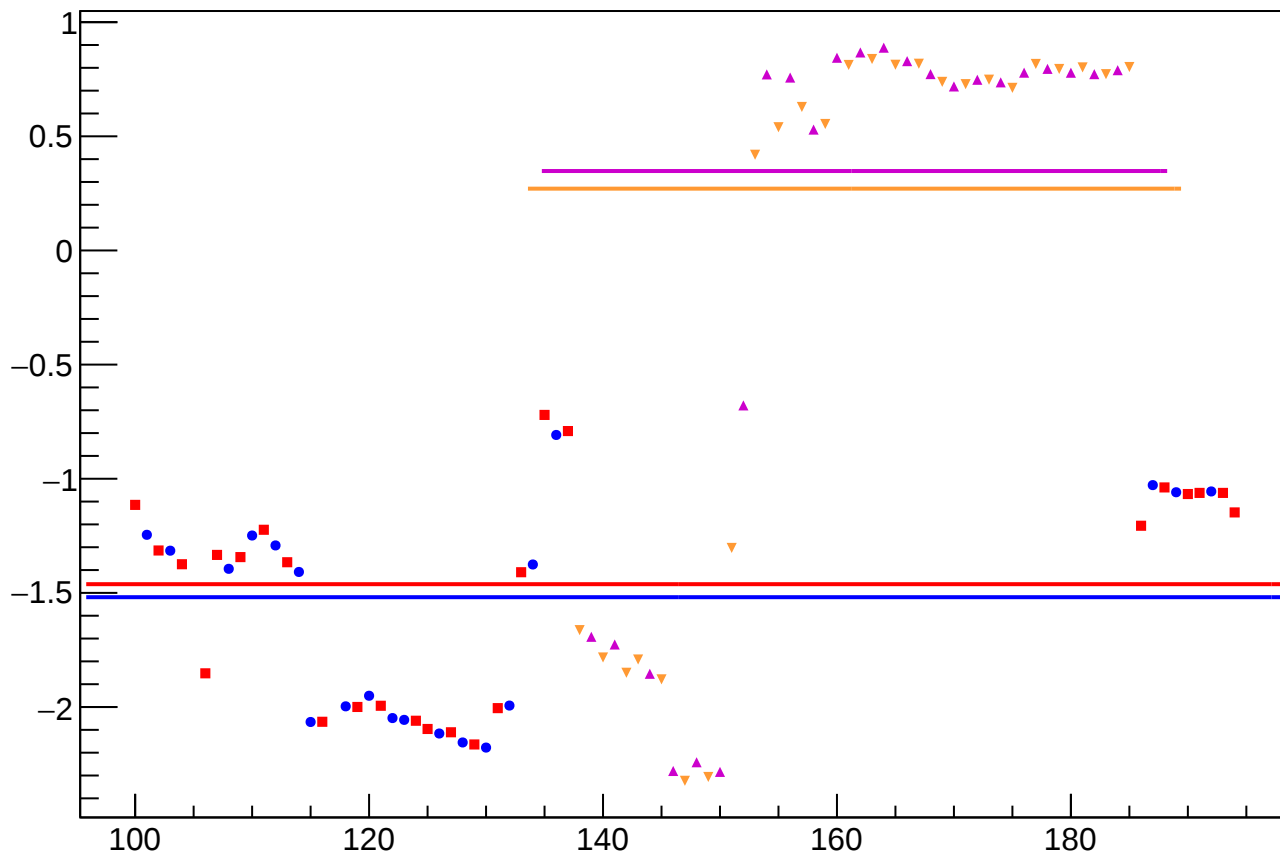
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 1055011.5/44

In: 0.008 $\pm$ 0.000 χ^2 /NDF:2766549.1/42

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:2675355.1/49

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 5442322.2/92

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.519 ± 0.000 $\chi^2/\text{NDF}: 168583980188.5/19$

Left Out: 0.271 ± 0.000 $\chi^2/\text{NDF}: 2583233987355.9/24$

Right Out: -1.462 ± 0.000 $\chi^2/\text{NDF}: 162230554232.5/24$

Left In: 0.348 ± 0.000 $\chi^2/\text{NDF}: 2274004426513.8/22$

Left: 0.308 ± 0.000 $\chi^2/\text{NDF}: 4864843200778.2/47$

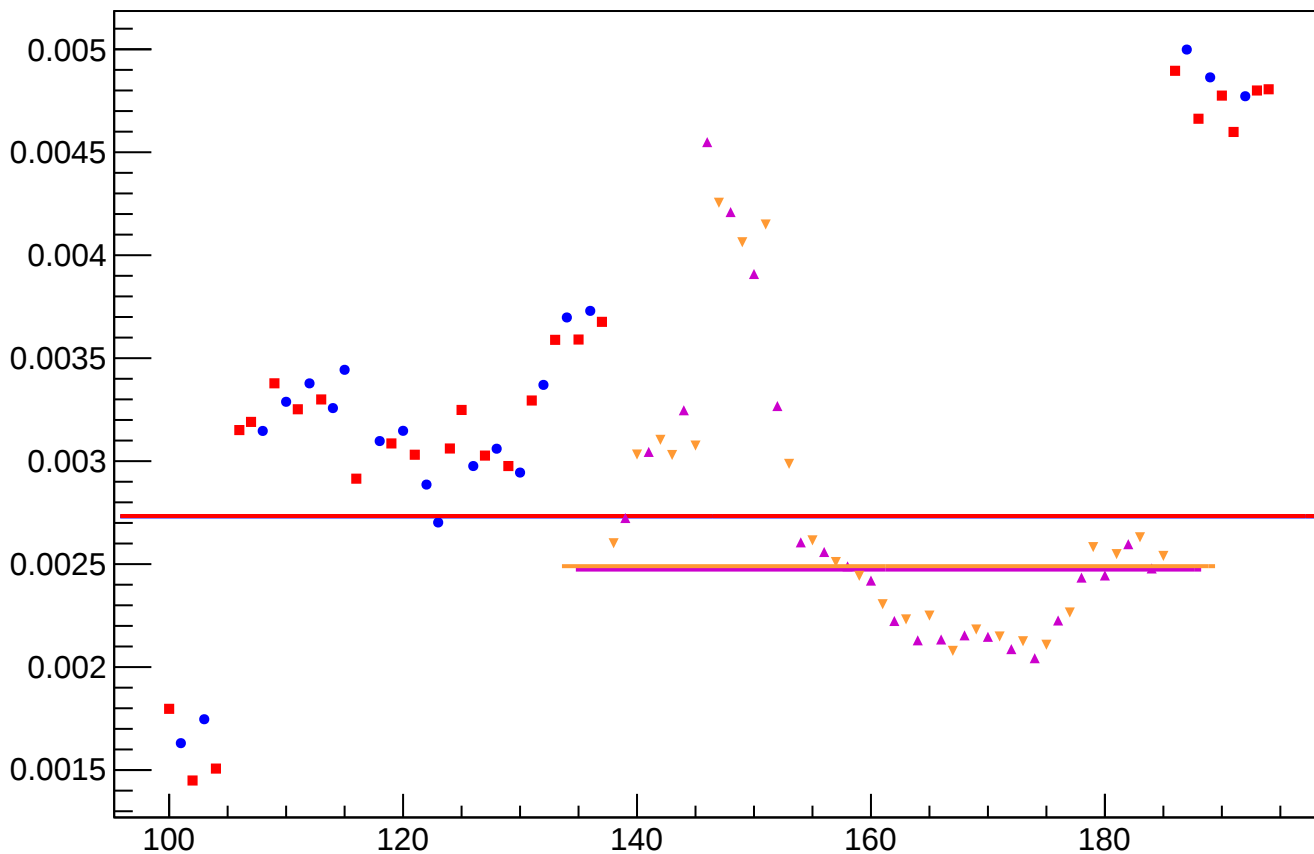
Right: -1.488 ± 0.000 $\chi^2/\text{NDF}: 332445908038.8/44$

In: -0.154 ± 0.000 $\chi^2/\text{NDF}: 4770168849410.9/42$

Out: -0.246 ± 0.000 $\chi^2/\text{NDF}: 5092515201449.3/49$

All: -0.202 ± 0.000 $\chi^2/\text{NDF}: 9877617956557$

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1613873.7/19

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 2896693.4/24

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

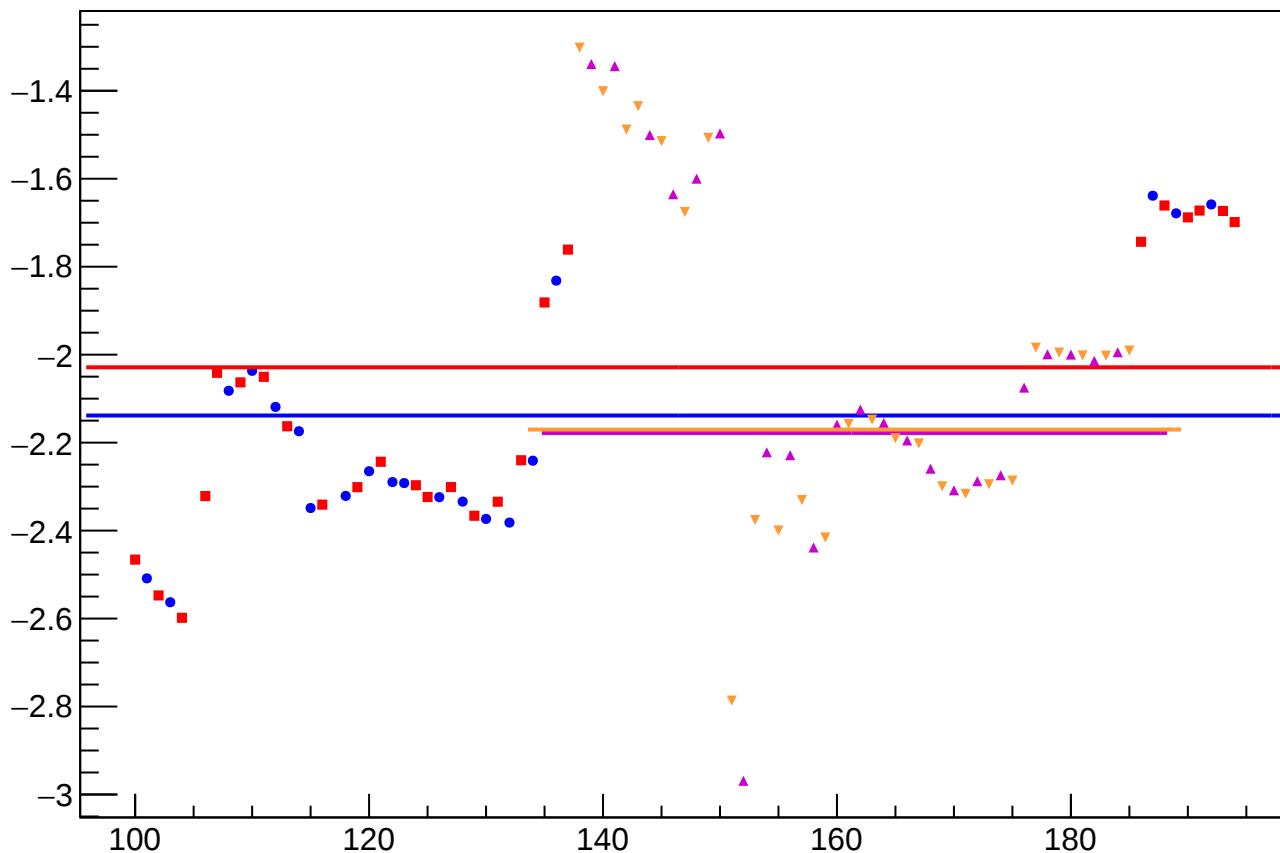
Right: 0.003+/-0.000 χ^2/NDF : 4510571.7/44

In: 0.003+/-0.000 χ^2/NDF :2838100.2/42

Out: 0.003+/-0.000 χ^2/NDF :4059747.2/49

All: 0.003+/-0.000 χ^2/NDF : 6899245.7/92

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.138+/-0.000 χ^2/NDF : 20905126031.8/19

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -2.029+/-0.000 χ^2/NDF : 31021843594.3/24

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

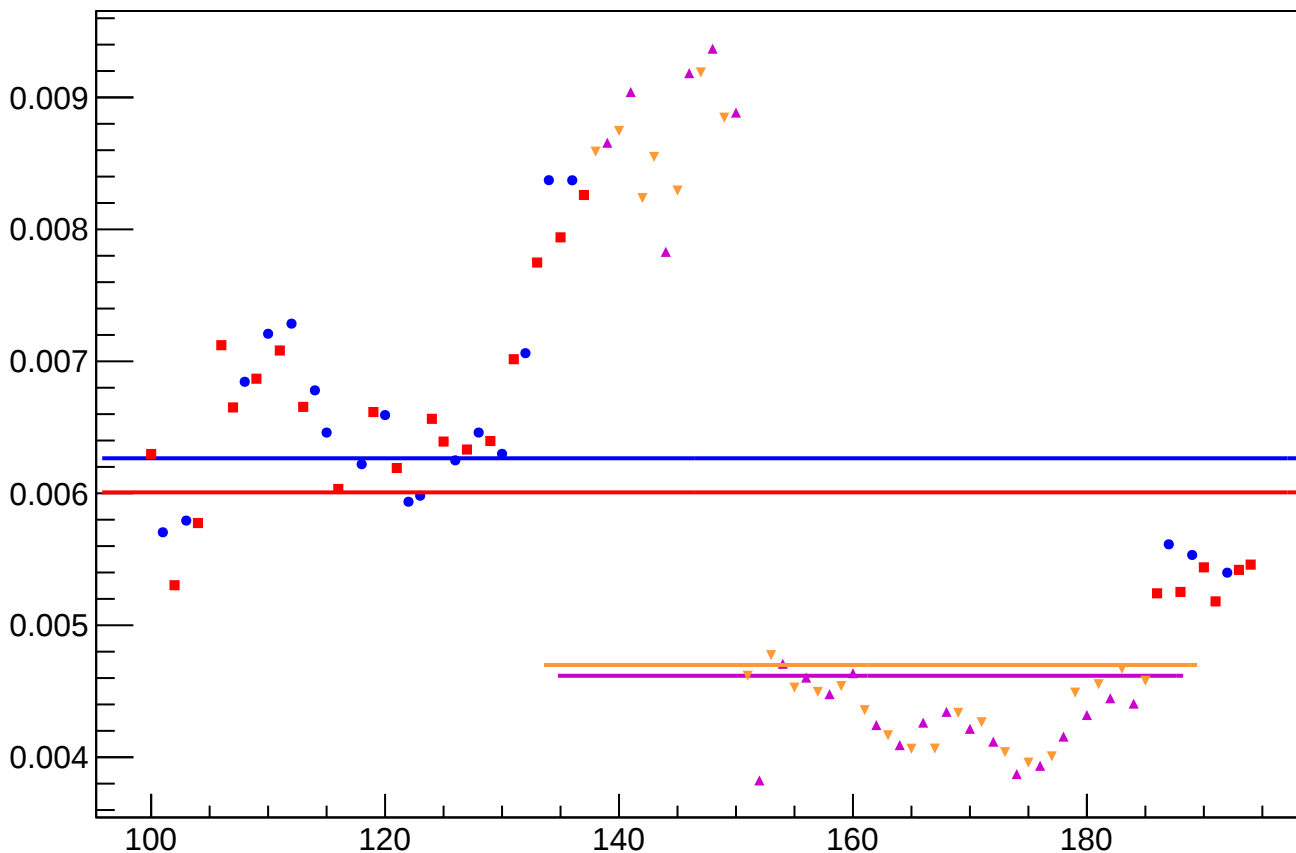
Right: -2.075+/-0.000 χ^2/NDF : 53330869037.5/44

In: -2.169+/-0.000 χ^2/NDF : 94555779079.5/42

Out: -2.132+/-0.000 χ^2/NDF : 95066702878.9/49

All: -2.150+/-0.000 χ^2/NDF : 190309867236.5

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 262928.3/19

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 346058.6/24

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

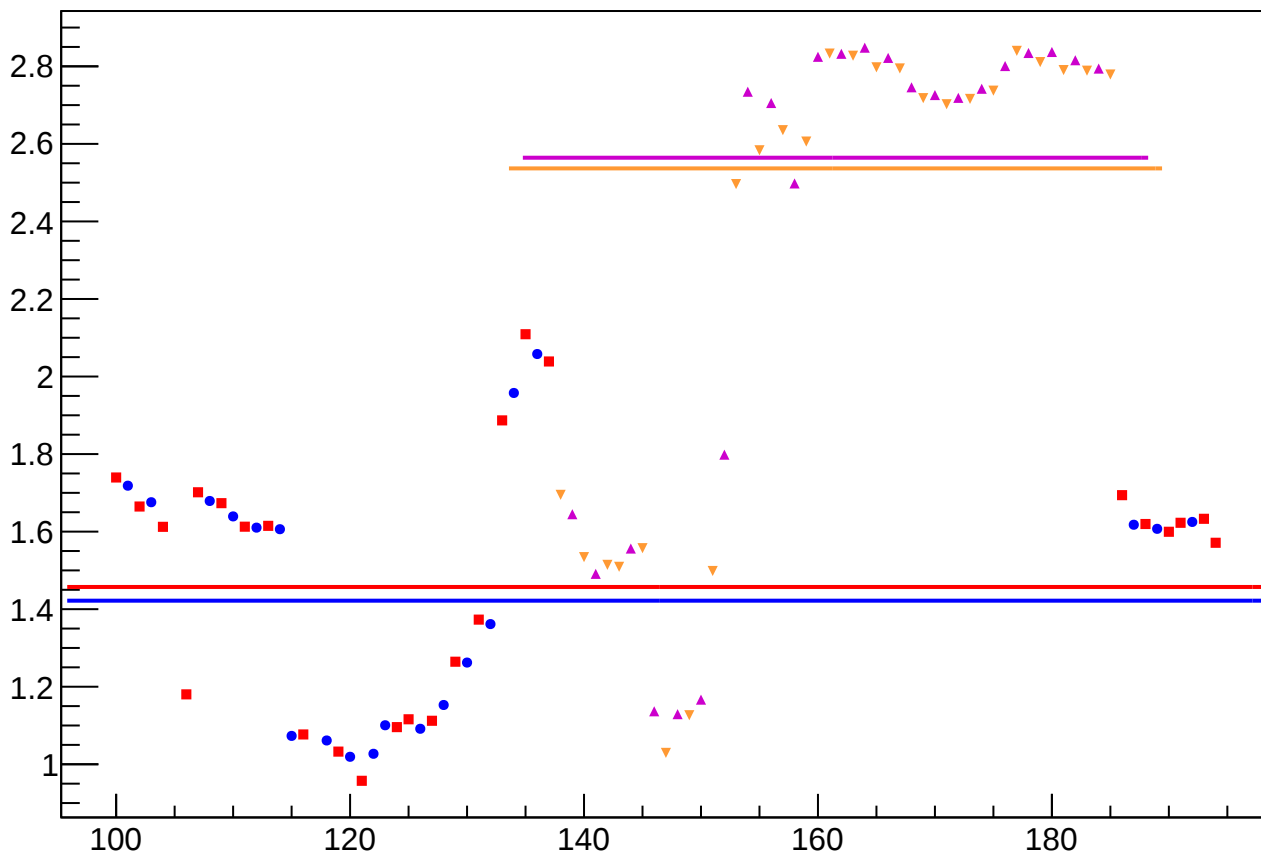
Right: 0.006+/-0.000 χ^2/NDF : 624590.7/44

In: 0.005+/-0.000 χ^2/NDF :3487300.1/42

Out: 0.005+/-0.000 χ^2/NDF :3362493.4/49

All: 0.005+/-0.000 χ^2/NDF : 6855984.5/92

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000 χ^2/NDF : 173947833385.9/19

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.457+/-0.000 χ^2/NDF : 176653741227.2/24

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

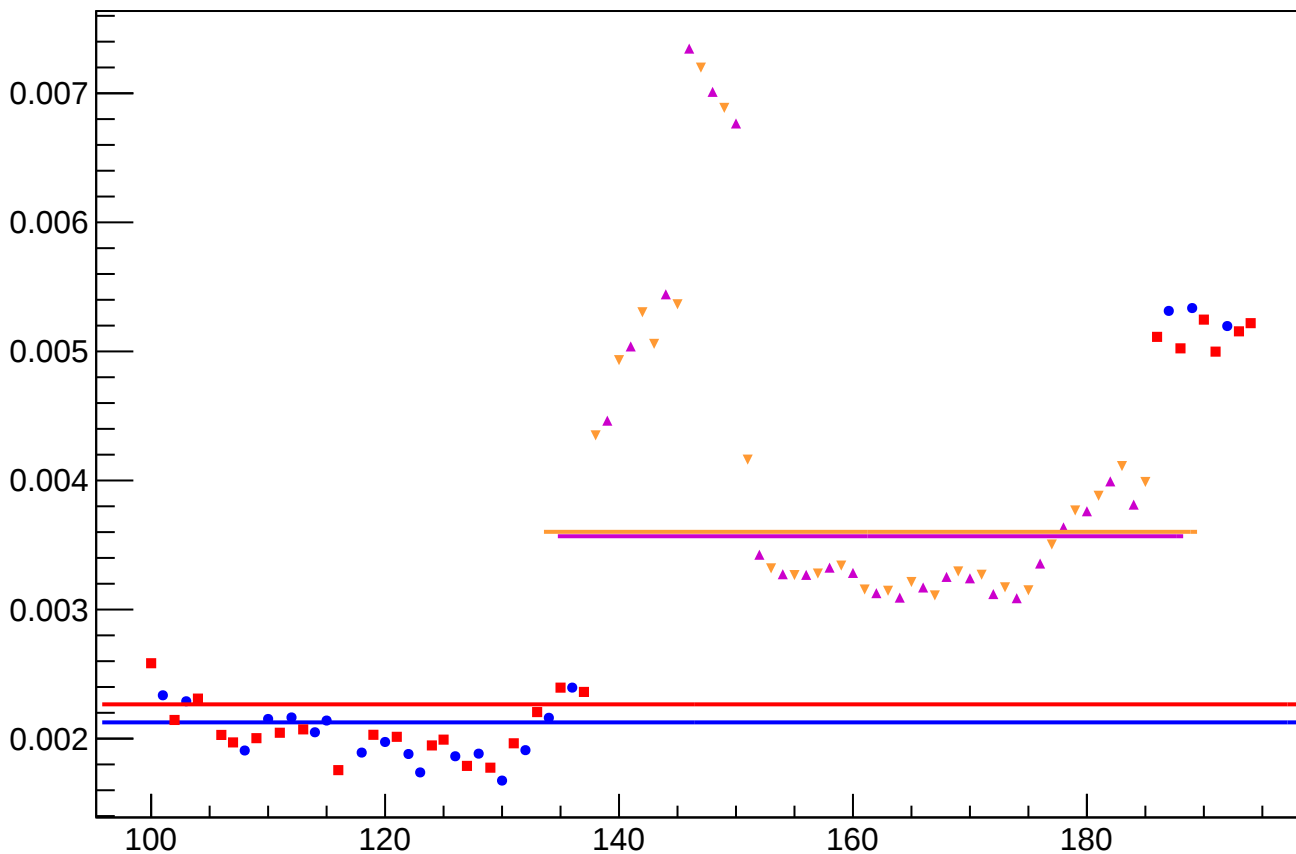
Right: 1.440+/-0.000 χ^2/NDF : 351624133443.4/44

In: 1.922+/-0.000 χ^2/NDF : 1333282687840.9/42

Out: 1.922+/-0.000 χ^2/NDF : 1300746370939.1/49

All: 1.922+/-0.000 χ^2/NDF : 2634029129289.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1261449.1/19

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2417296.2/24

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

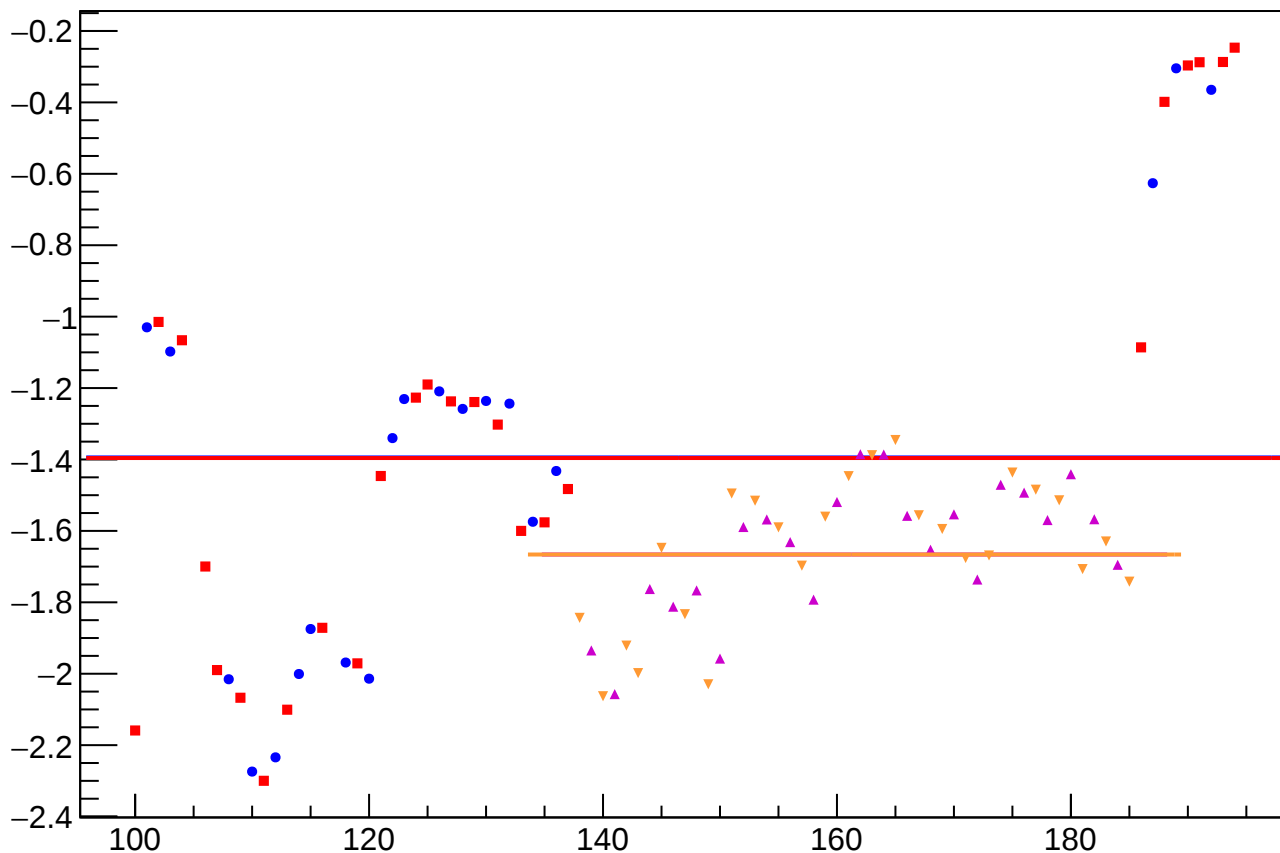
Right: 0.002+/-0.000 χ^2/NDF : 3710655.1/44

In: 0.003+/-0.000 χ^2/NDF :5689609.7/42

Out: 0.003+/-0.000 χ^2/NDF :6448458.6/49

All: 0.003+/-0.000 χ^2/NDF : 12158273.6/92

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.394+/-0.000 χ^2/NDF : 38491765637.6/19

Left Out: -1.666+/-0.000 χ^2/NDF : 18325162131.2/24

Right Out: -1.396+/-0.000 χ^2/NDF : 72152779676.5/24

Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

Left: -1.666+/-0.000 χ^2/NDF : 32617732948.1/47

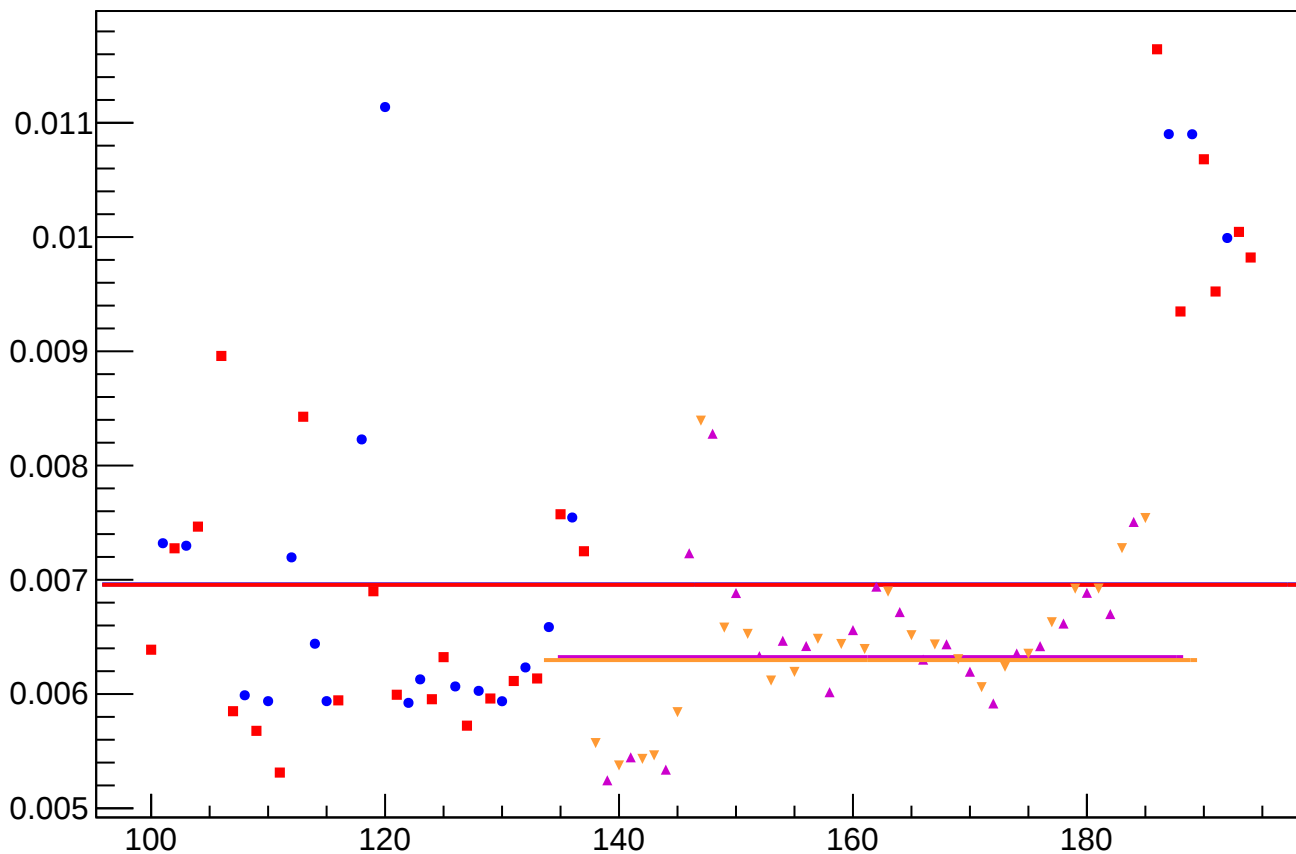
Right: -1.395+/-0.000 χ^2/NDF : 110644771376.0/44

In: -1.593+/-0.000 χ^2/NDF : 60977384132.6/42

Out: -1.583+/-0.000 χ^2/NDF : 100415773699.5/49

All: -1.587+/-0.000 χ^2/NDF : 161422580423.9

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 578135.1/19

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 966330.5/24

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

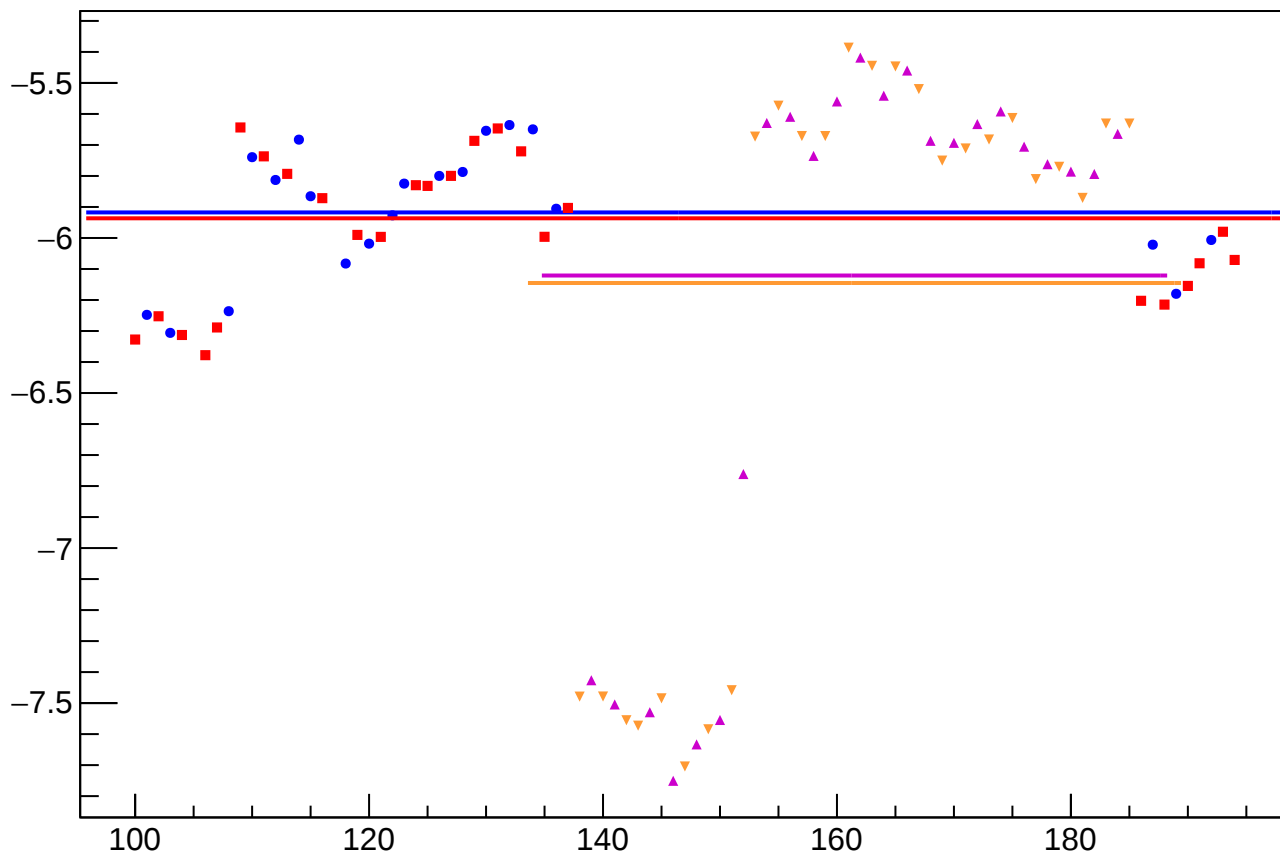
Right: 0.007+/-0.000 χ^2/NDF : 1544467.7/44

In: 0.006+/-0.000 χ^2/NDF : 998873.0/42

Out: 0.007+/-0.000 χ^2/NDF : 1395333.2/49

All: 0.006+/-0.000 χ^2/NDF : 2394223.8/92

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.918+/-0.000 χ^2/NDF : 11395411220.6/19

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.937+/-0.000 χ^2/NDF : 13717296274.3/24

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

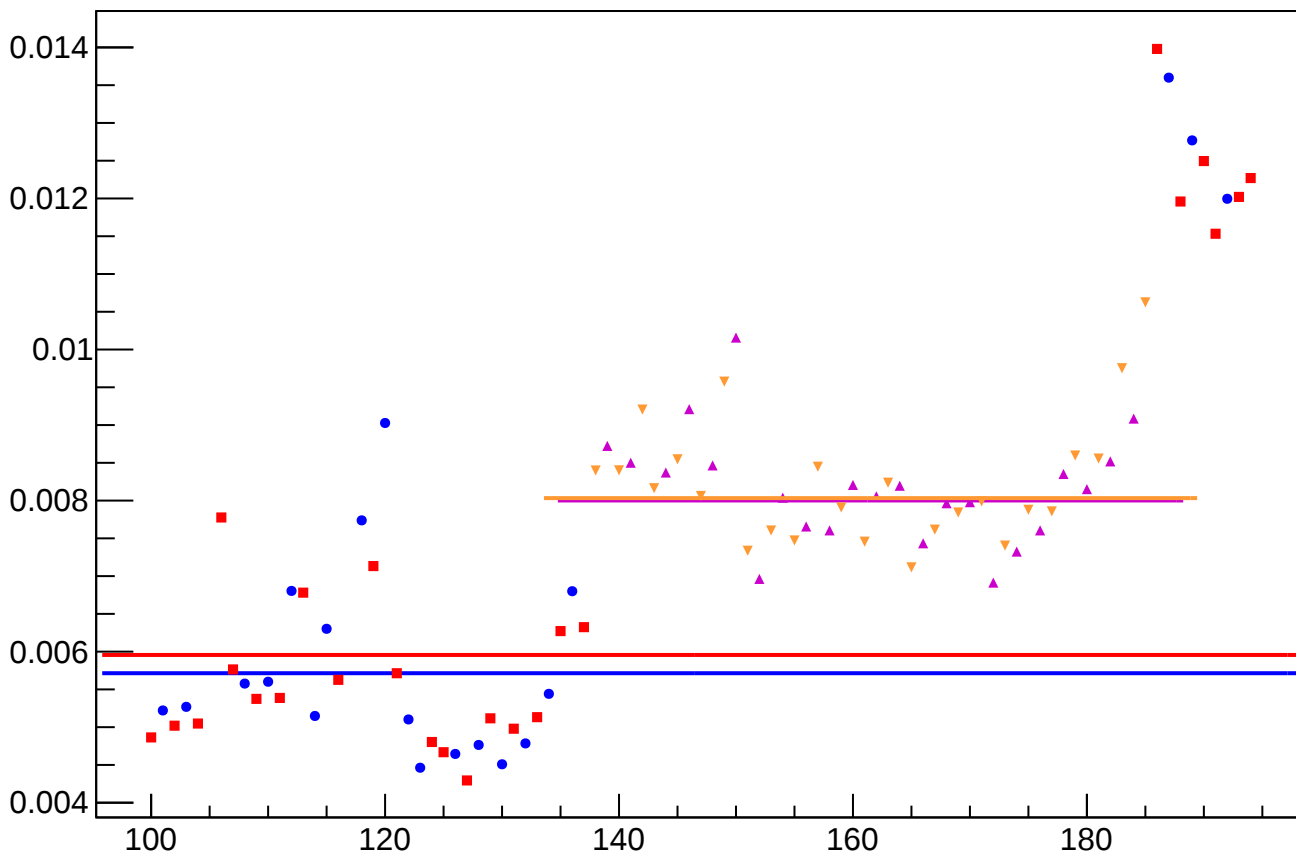
Right: -5.928+/-0.000 χ^2/NDF : 25153613524.5/44

In: -6.027+/-0.000 χ^2/NDF : 174425540773.3/42

Out: -6.043+/-0.000 χ^2/NDF : 204535320184.1/49

All: -6.036+/-0.000 χ^2/NDF : 379024764941.0

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1257579.6/19

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2156398.7/24

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

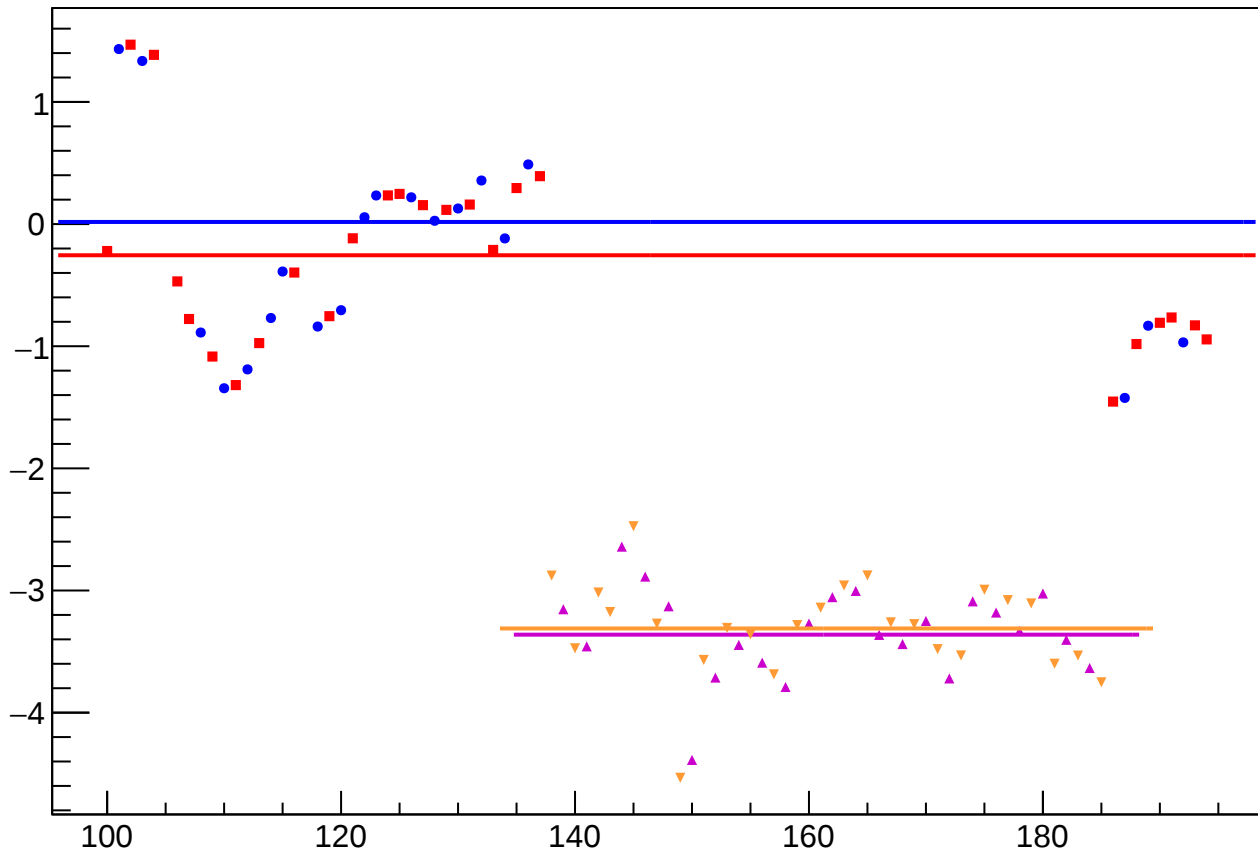
Right: 0.006+/-0.000 χ^2/NDF : 3427232.0/44

In: 0.007+/-0.000 χ^2/NDF :2669395.2/42

Out: 0.007+/-0.000 χ^2/NDF :3443182.2/49

All: 0.007+/-0.000 χ^2/NDF : 6115245.1/92

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 21794442260.0/19

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.255+/-0.000 χ^2/NDF : 28333445118.8/24

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

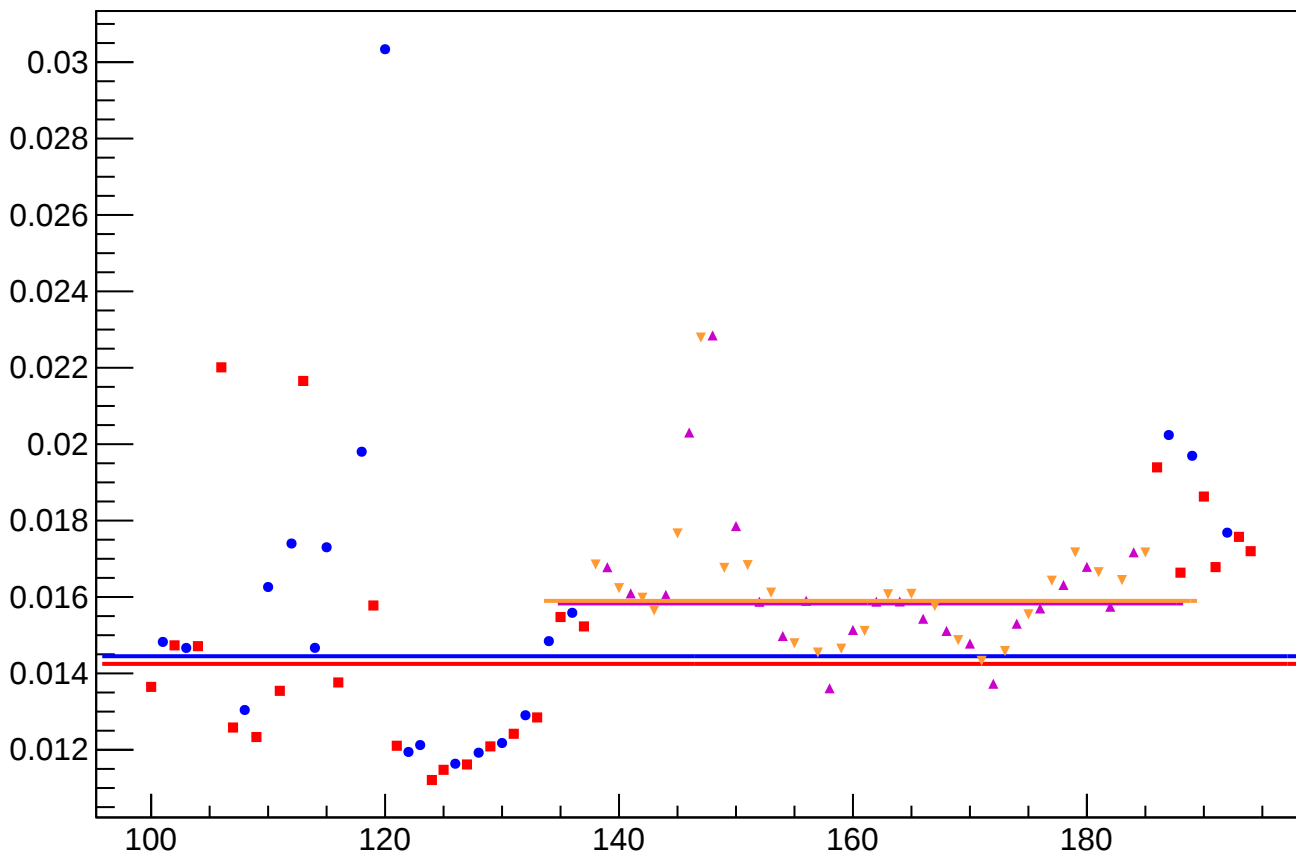
Right: -0.140+/-0.000 χ^2/NDF : 51620054816.6/44

In: -2.197+/-0.000 χ^2/NDF : 290796492730.8/42

Out: -2.078+/-0.000 χ^2/NDF : 301120778404.5/49

All: -2.133+/-0.000 χ^2/NDF : 592680514015.3

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 565129.2/19

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.014+/-0.000 χ^2/NDF : 589045.1/24

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

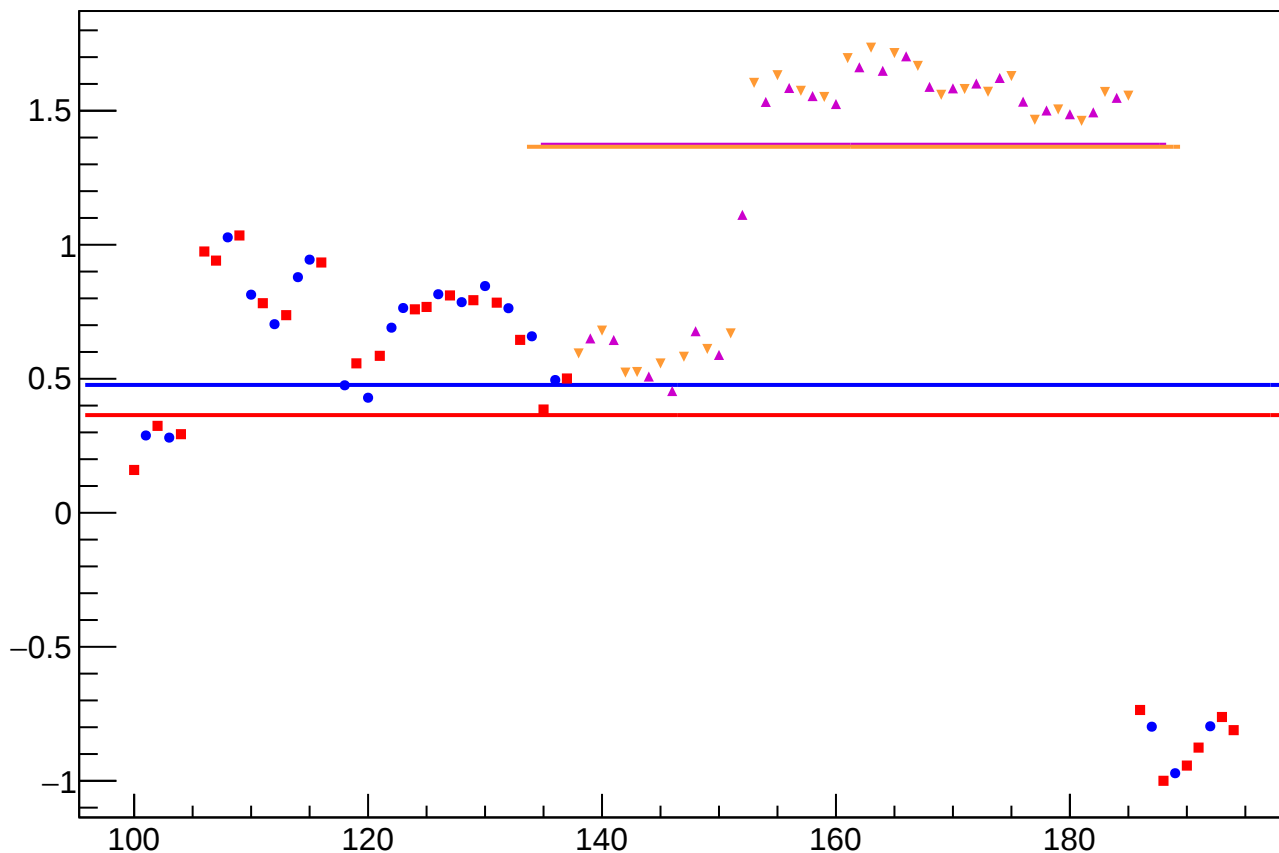
Right: 0.014+/-0.000 χ^2/NDF : 1155785.6/44

In: 0.015+/-0.000 χ^2/NDF :991804.1/42

Out: 0.015+/-0.000 χ^2/NDF :994410.4/49

All: 0.015+/-0.000 χ^2/NDF : 1987816.9/92

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.477+/-0.000

χ^2/NDF : 25054763984.8/19

Left: 1.369+/-0.000

χ^2/NDF : 138167468300.7/47

Right: 0.414+/-0.000

χ^2/NDF : 74742197732.3/44

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 1.196+/-0.000

χ^2/NDF : 156211124389.1/42

Right Out: 0.365+/-0.000

χ^2/NDF : 48946565021.8/24

Out: 1.129+/-0.000

χ^2/NDF : 224625363744.9/49

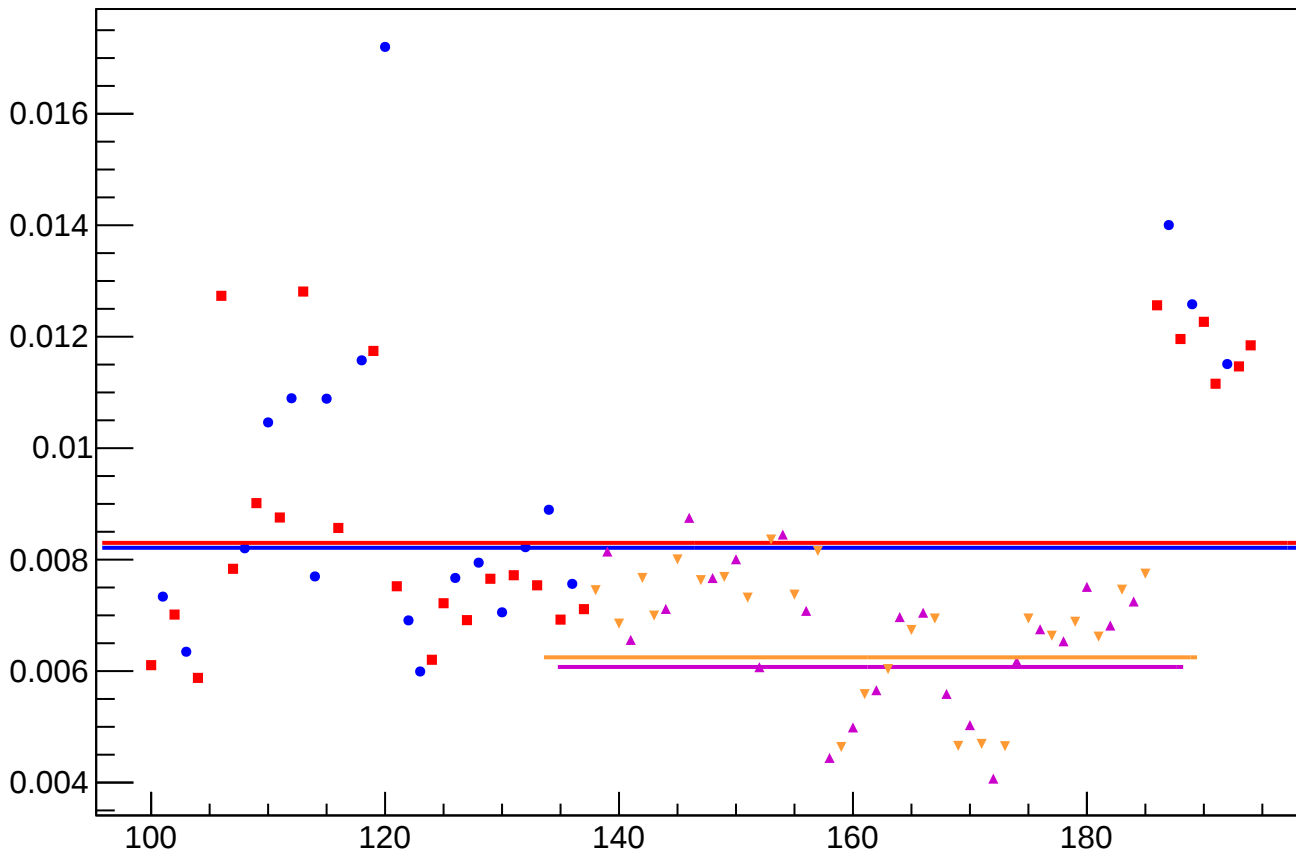
Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.162+/-0.000

χ^2/NDF : 382075695150.9

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 796526.6/19

Left Out: 0.006+/-0.000 χ^2/NDF :1330867.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1157218.4/24

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2775615.7/47

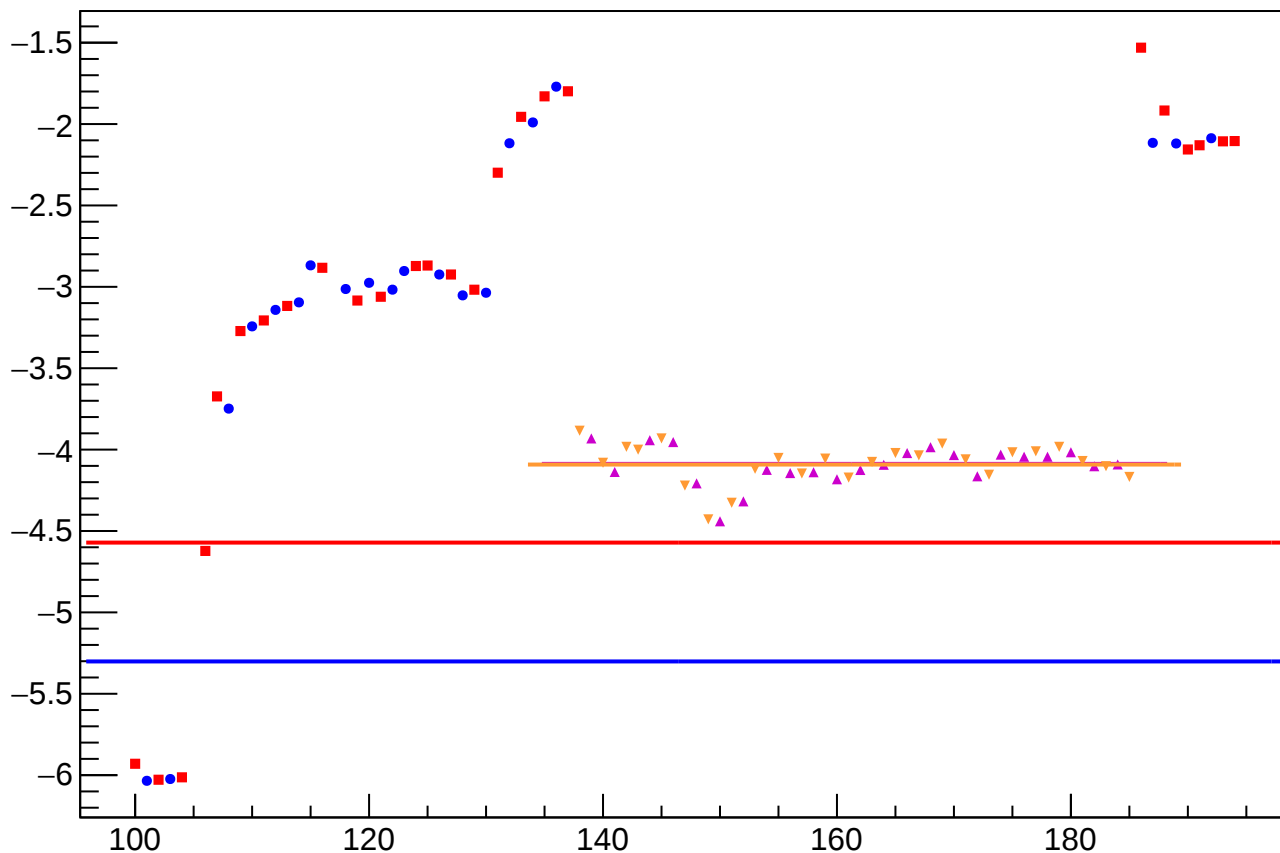
Right: 0.008+/-0.000 χ^2/NDF : 1954653.3/44

In: 0.006+/-0.000 χ^2/NDF :3000143.4/42

Out: 0.007+/-0.000 χ^2/NDF :3337763.6/49

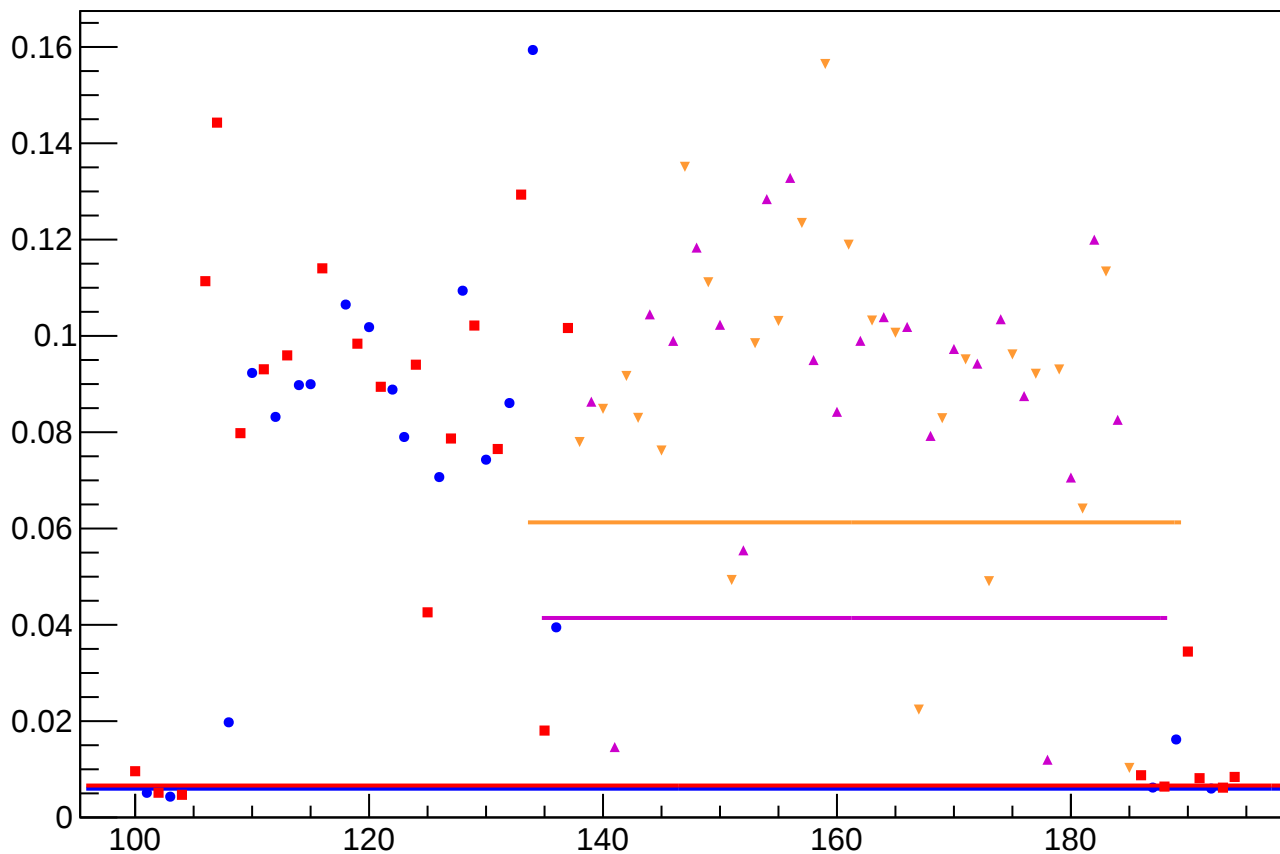
All: 0.007+/-0.000 χ^2/NDF : 6368370.8/92

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.301+/-0.000	$\chi^2/\text{NDF}: 131097864217.2/19$	Left: -4.089+/-0.000	$\chi^2/\text{NDF}: 74248792.8/47$
Left Out: -4.092+/-0.000	$\chi^2/\text{NDF}: 39806766.7/24$	Right: -4.933+/-0.000	$\chi^2/\text{NDF}: 362095777993.4/44$
Right Out: -4.571+/-0.000	$\chi^2/\text{NDF}: 215675971648.0/24$	In: -5.217+/-0.000	$\chi^2/\text{NDF}: 136976441297.5/42$
Left In: -4.088+/-0.000	$\chi^2/\text{NDF}: 34412880.7/22$	Out: -4.548+/-0.000	$\chi^2/\text{NDF}: 216361693305.4/49$
		All: -4.883+/-0.000	$\chi^2/\text{NDF}: 367000411497.6$

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7989230.2/19

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 8689459.9/24

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

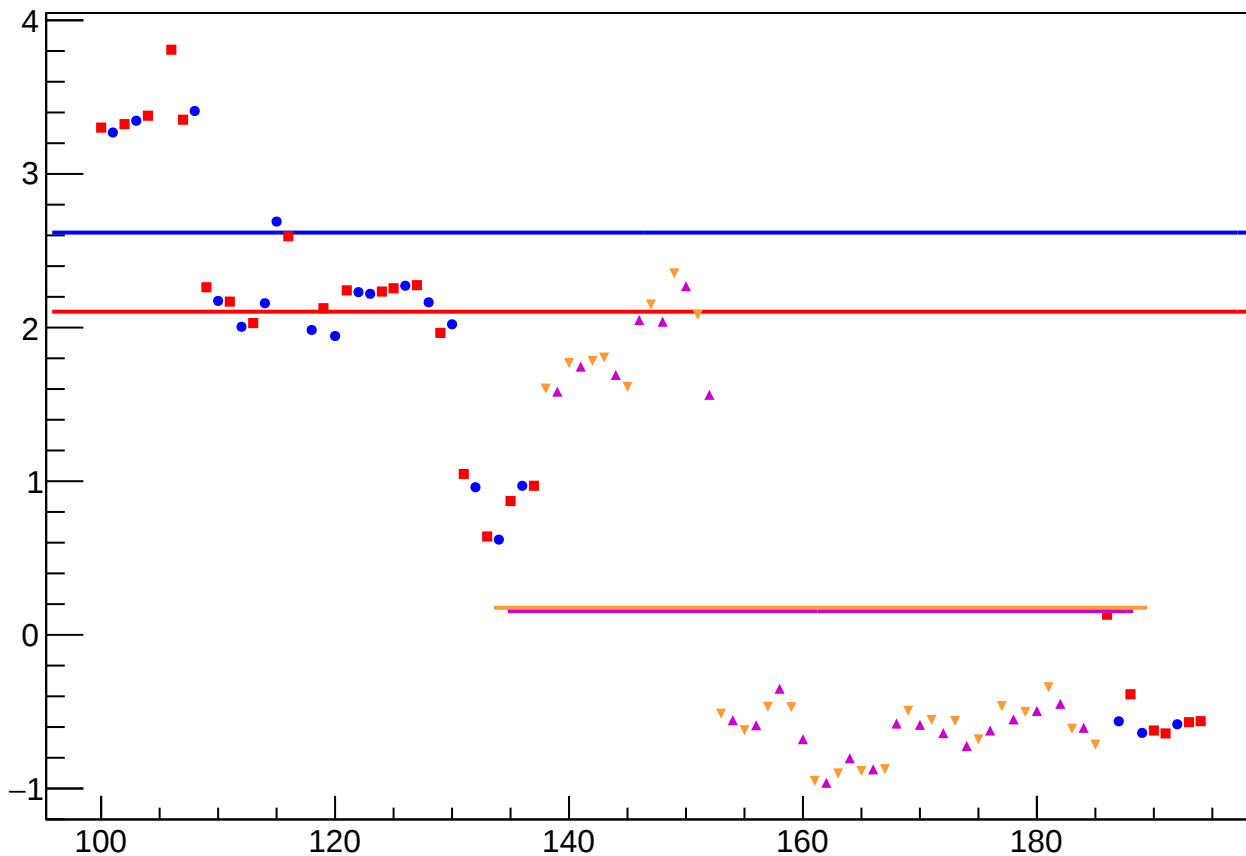
Right: 0.006+/-0.000 χ^2/NDF : 16703374.0/44

In: 0.008+/-0.000 χ^2/NDF : 31085546.2/42

Out: 0.009+/-0.000 χ^2/NDF : 33827327.7/49

All: 0.009+/-0.000 χ^2/NDF : 64954942.1/92

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 2.618+/-0.000

χ^2/NDF : 73785622868.1/19

Left: 0.165+/-0.000

χ^2/NDF : 6439465655.5/47

Left Out: 0.177+/-0.000

χ^2/NDF : 3275313367.7/24

Right: 2.346+/-0.000

χ^2/NDF : 200316486924.2/44

Right Out: 2.103+/-0.000

χ^2/NDF : 121694250651.3/24

In: 2.447+/-0.000

χ^2/NDF : 91519758389.9/42

Out: 1.997+/-0.000

χ^2/NDF : 132921221330.0/49

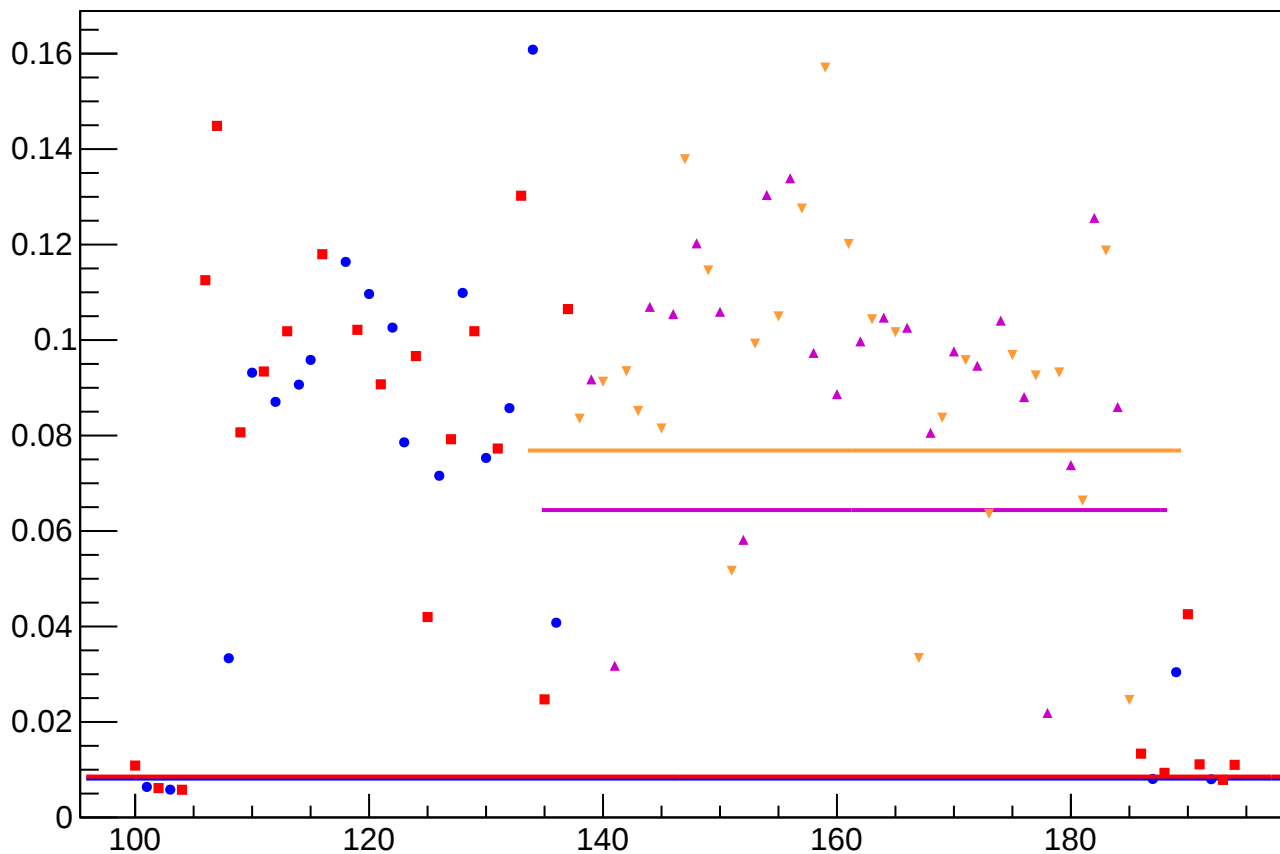
Left In: 0.154+/-0.000

χ^2/NDF : 3163553595.0/22

All: 2.211+/-0.000

χ^2/NDF : 228387523108.0

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7891539.5/19

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF: 4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 8583232.9/24

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF: 6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11584112.3/47

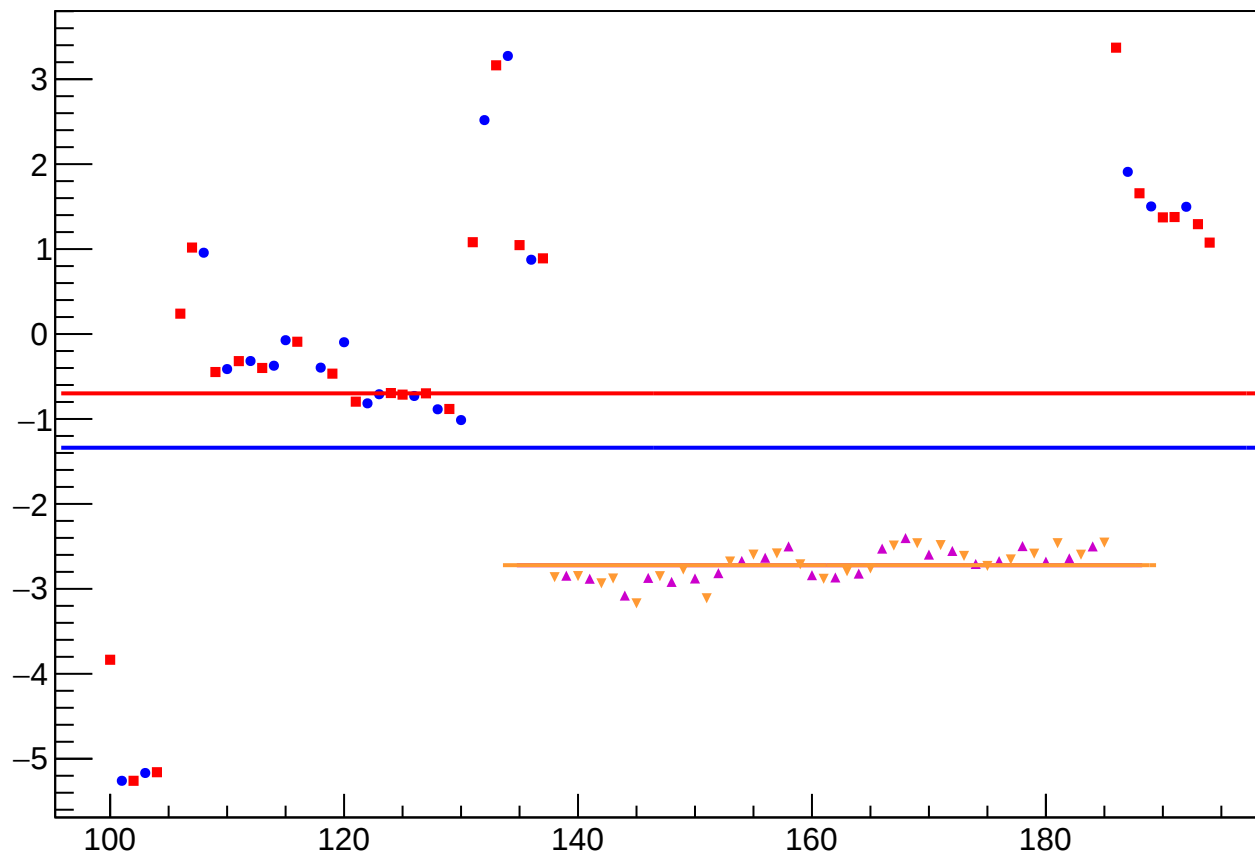
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16481535.1/44

In: 0.012 $\pm$ 0.000 χ^2 /NDF: 30069826.3/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 32783070.4/49

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 62856412.2/92

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.338+/-0.000

χ^2/NDF : 193400907073.2/19

Left: -2.722+/-0.000

χ^2/NDF : 18543711860.5/47

Left Out: -2.721+/-0.000

χ^2/NDF : 10397156971.6/24

Right: -0.978+/-0.000

χ^2/NDF : 424529140587.0/44

Right Out: -0.699+/-0.000

χ^2/NDF : 225163697884.7/24

In: -2.603+/-0.000

χ^2/NDF : 246727261448.7/42

Out: -2.513+/-0.000

χ^2/NDF : 358158084844.3/49

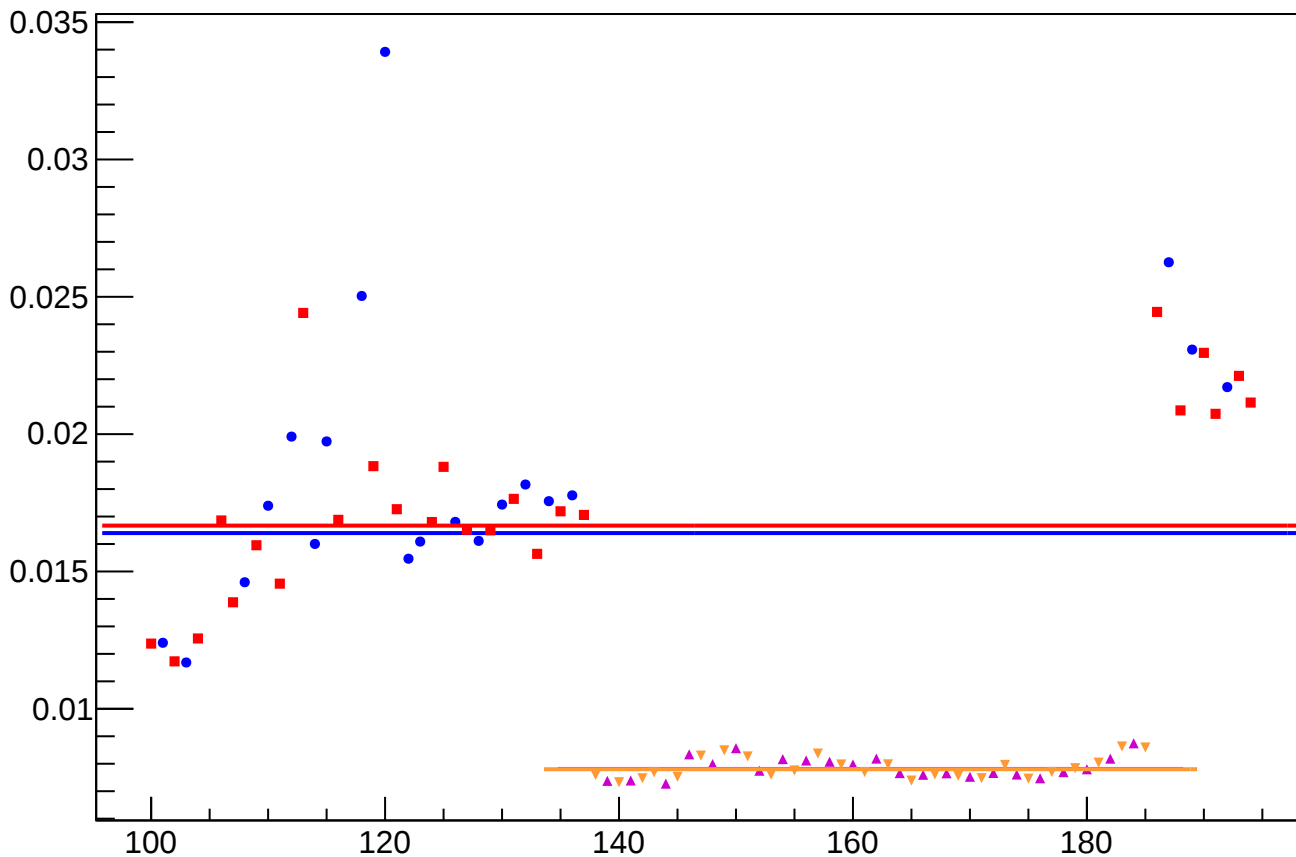
Left In: -2.722+/-0.000

χ^2/NDF : 8146484592.1/22

All: -2.556+/-0.000

χ^2/NDF : 606138869590.2/100

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 824326.2/19

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.017+/-0.000 χ^2/NDF : 812701.3/24

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

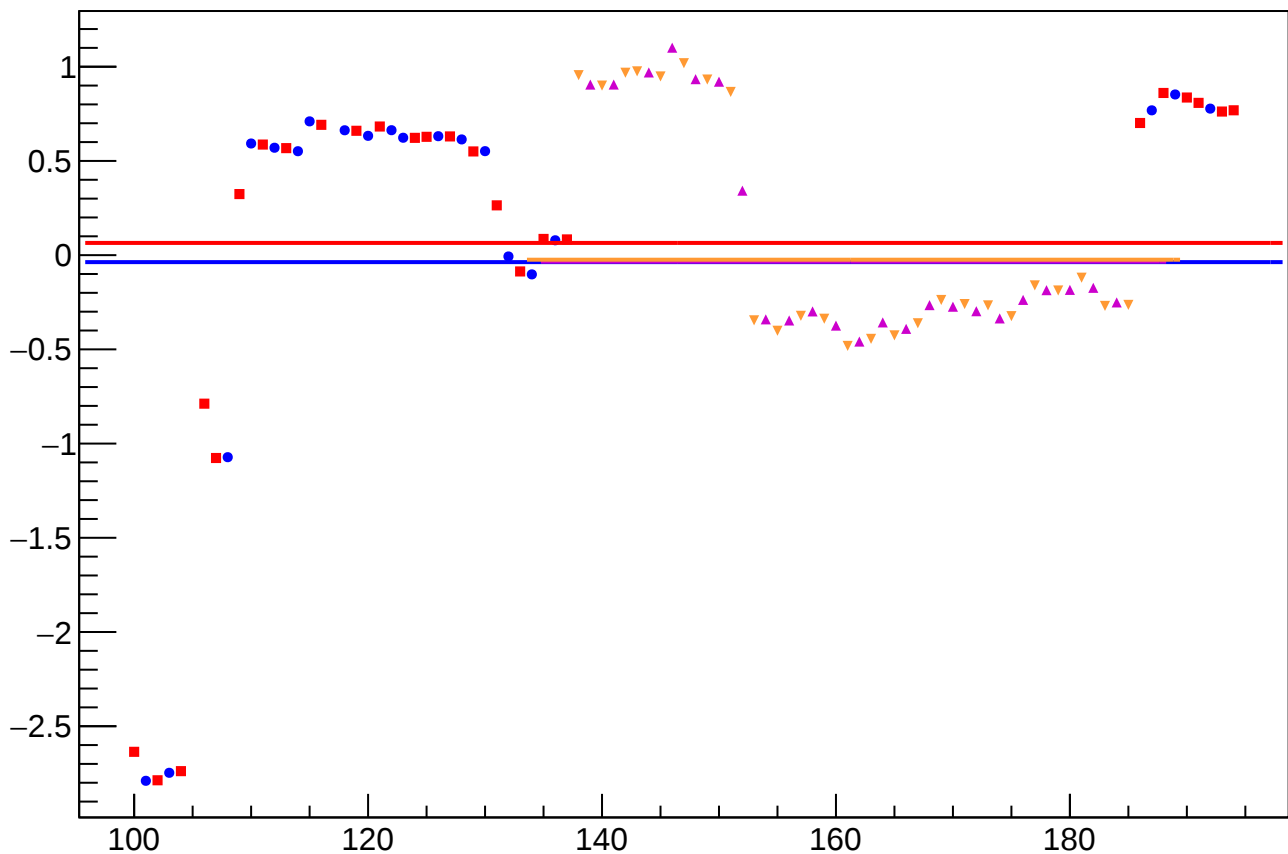
Right: 0.017+/-0.000 χ^2/NDF : 1639178.7/44

In: 0.009+/-0.000 χ^2/NDF : 4373259.4/42

Out: 0.009+/-0.000 χ^2/NDF : 5598539.0/49

All: 0.009+/-0.000 χ^2/NDF : 9980041.0/92

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.037 $\pm$ 0.000

χ^2 /NDF: 764259515255.9/19

Left: -0.029 $\pm$ 0.000

χ^2 /NDF: 249405201350.6/47

Right: 0.019 $\pm$ 0.000

χ^2 /NDF: 1627424173056.4/44

Left Out: -0.024 $\pm$ 0.000

χ^2 /NDF: 135451649275.0/24

In: -0.036 $\pm$ 0.000

χ^2 /NDF: 878190408735.8/42

Right Out: 0.065 $\pm$ 0.000

χ^2 /NDF: 859877837226.7/24

Out: 0.029 $\pm$ 0.000

χ^2 /NDF: 997603440683.2/49

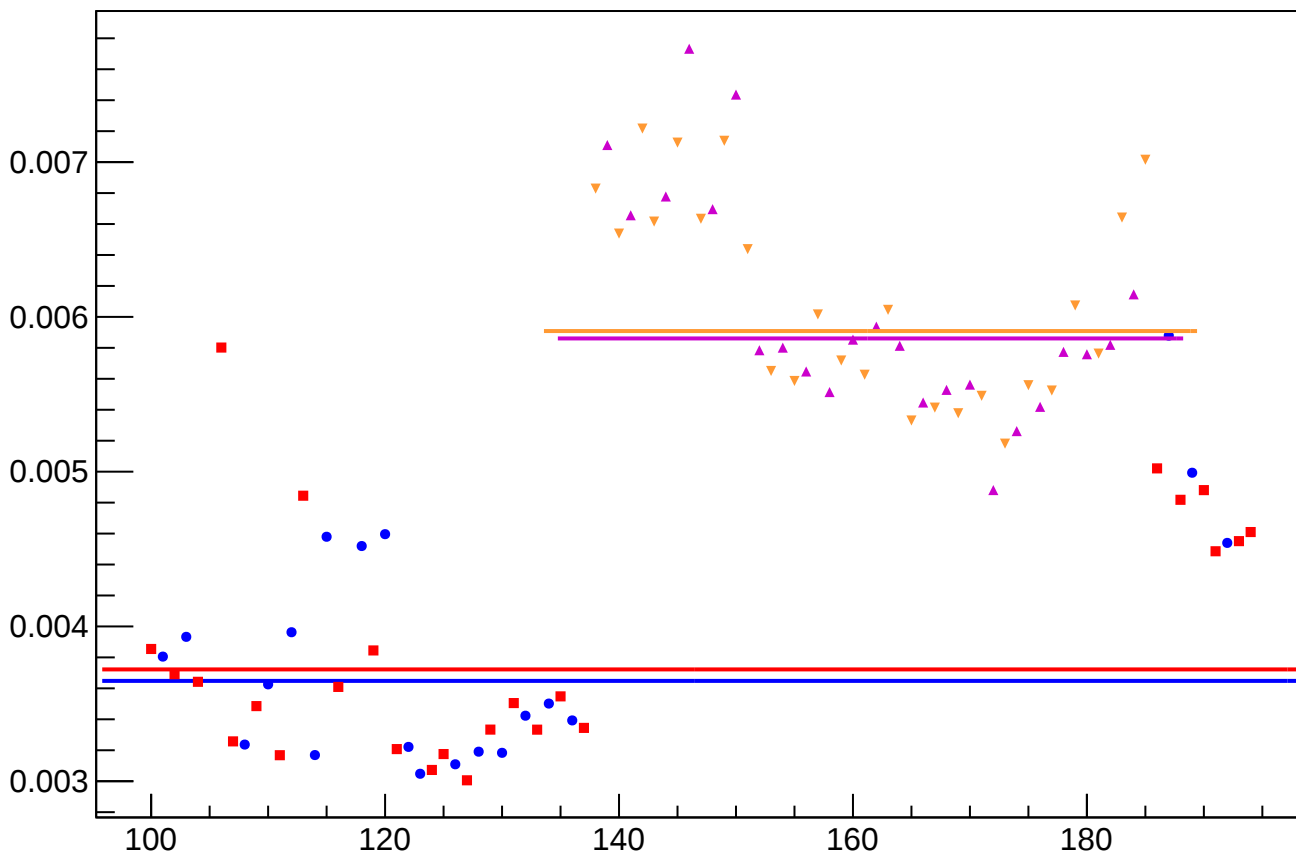
Left In: -0.034 $\pm$ 0.000

χ^2 /NDF: 113929060918.1/22

All: -0.001 $\pm$ 0.000

χ^2 /NDF: 1878101450184

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 363048.2/19

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:314309.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 581681.5/24

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:364512.1/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 679905.3/47

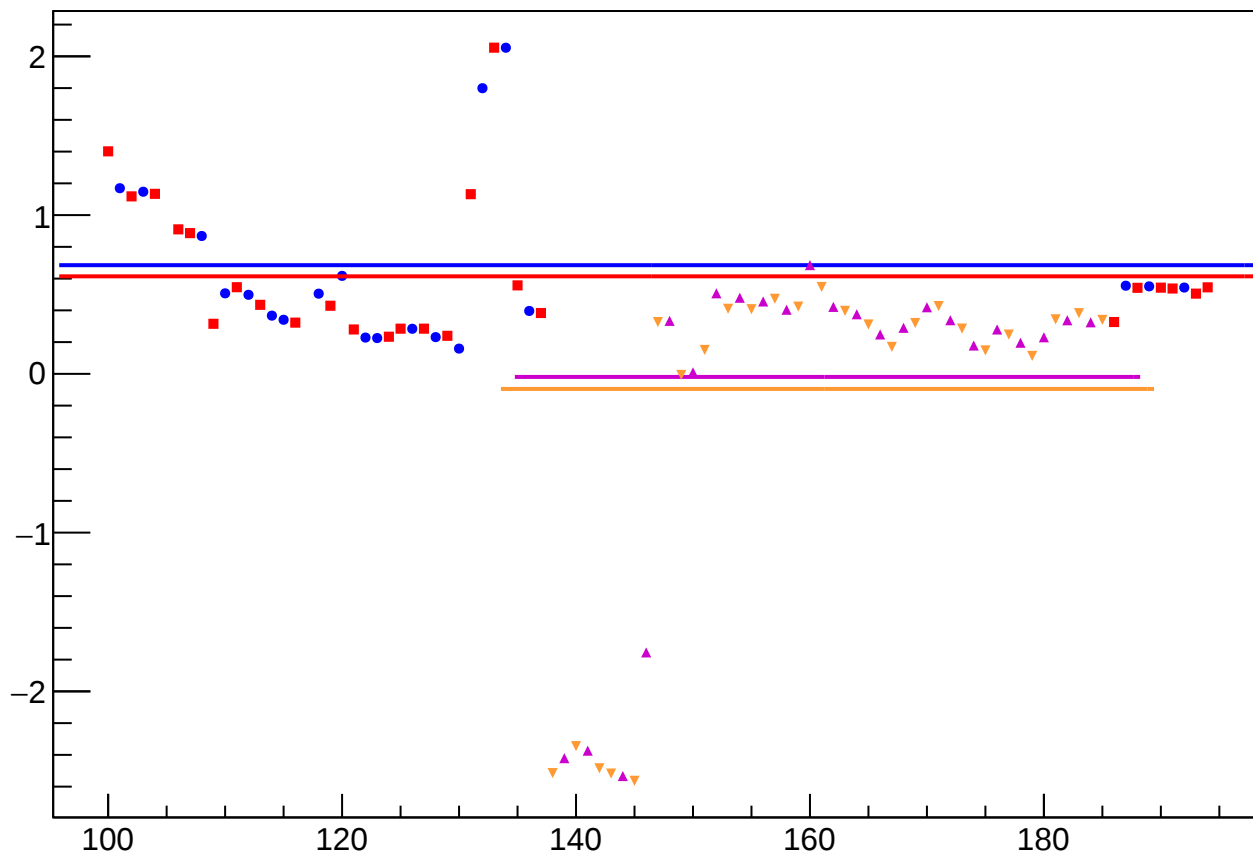
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 948216.1/44

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3245757.6/42

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:3636129.5/49

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 6882762.6/92

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.685 $\pm$ 0.000

χ^2/NDF : 37337248713.5/19

Left: -0.058 $\pm$ 0.000

χ^2/NDF : 924153662333.7/47

Left Out: -0.095 $\pm$ 0.000

χ^2/NDF : 505606573631.9/24

Right: 0.640 $\pm$ 0.000

χ^2/NDF : 83273921157.1/44

Right Out: 0.614 $\pm$ 0.000

χ^2/NDF : 45049760715.5/24

In: 0.238 $\pm$ 0.000

χ^2/NDF : 543961467326.4/42

Out: 0.249 $\pm$ 0.000

χ^2/NDF : 676474084772.4/49

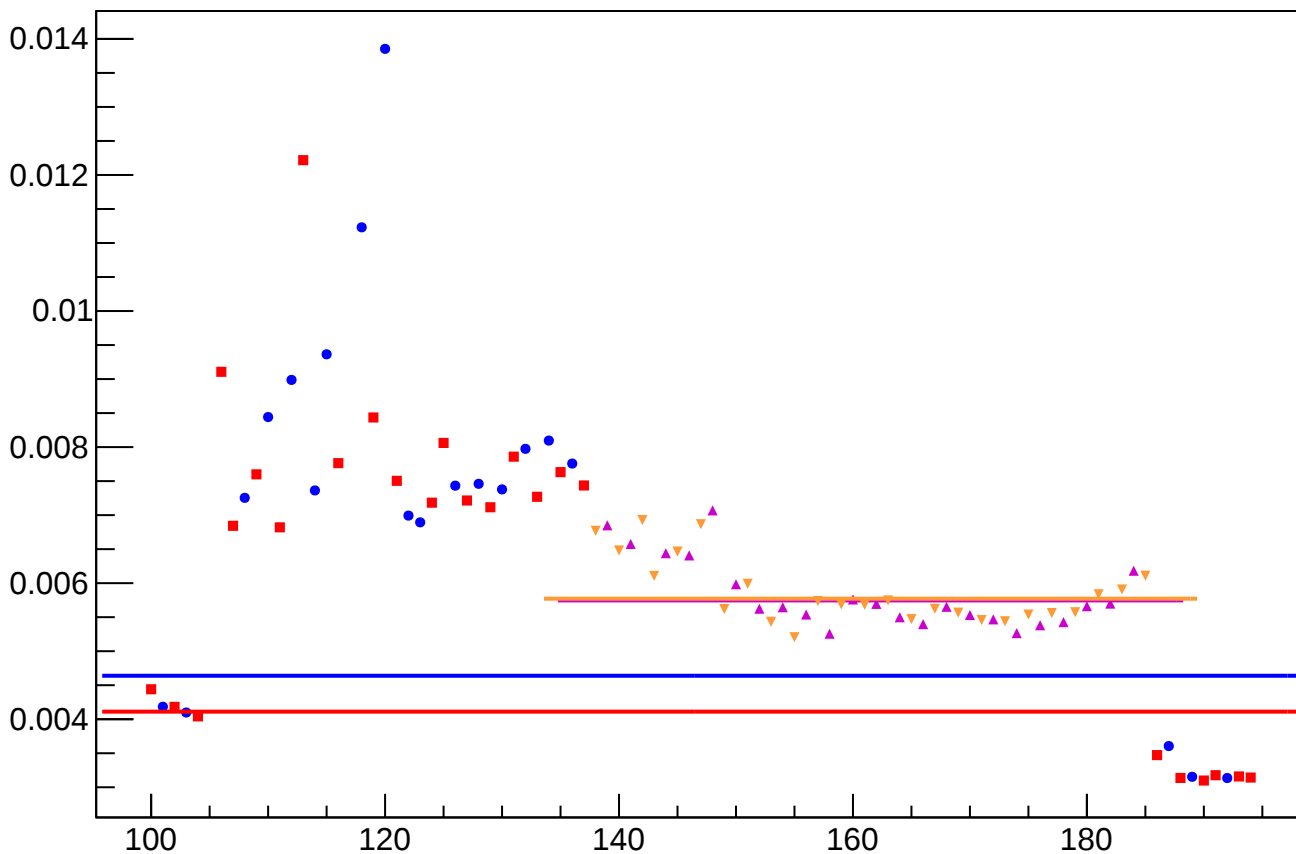
Left In: -0.019 $\pm$ 0.000

χ^2/NDF : 417104863944.5/22

All: 0.245 $\pm$ 0.000

χ^2/NDF : 1220487509404.0

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2507954.6/19

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 2912979.7/24

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

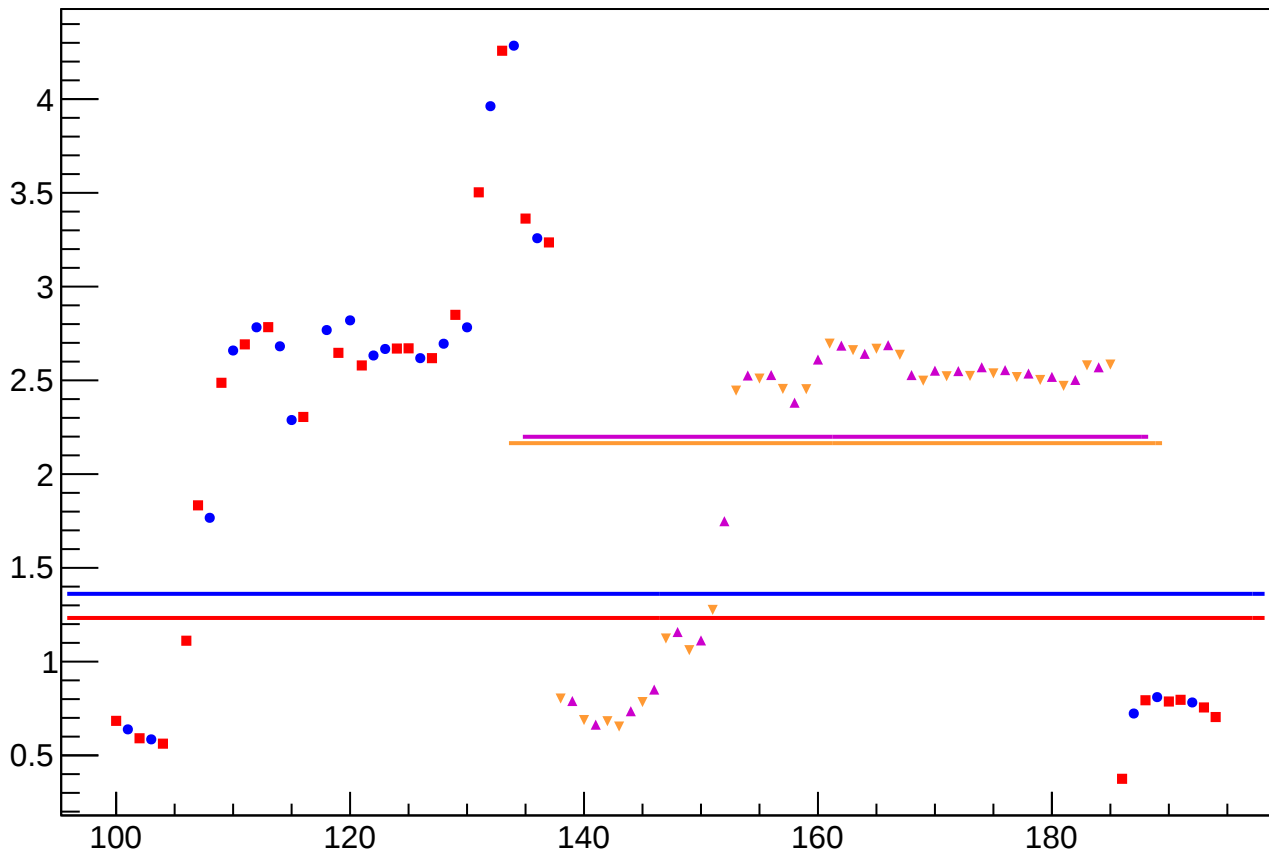
Right: 0.004+/-0.000 χ^2/NDF : 5520919.7/44

In: 0.005+/-0.000 χ^2/NDF :3155148.5/42

Out: 0.005+/-0.000 χ^2/NDF :4469778.8/49

All: 0.005+/-0.000 χ^2/NDF : 7748038.3/92

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.361 $\pm$ 0.000 χ^2 /NDF: 232870061536.2/19

Left Out: 2.165 $\pm$ 0.000 χ^2 /NDF: 292800056899.6/24

Right Out: 1.233 $\pm$ 0.000 χ^2 /NDF: 298488202732.7/24

Left In: 2.199 $\pm$ 0.000 χ^2 /NDF: 253166239065.4/22

Left: 2.182 $\pm$ 0.000 χ^2 /NDF: 546302258971.9/47

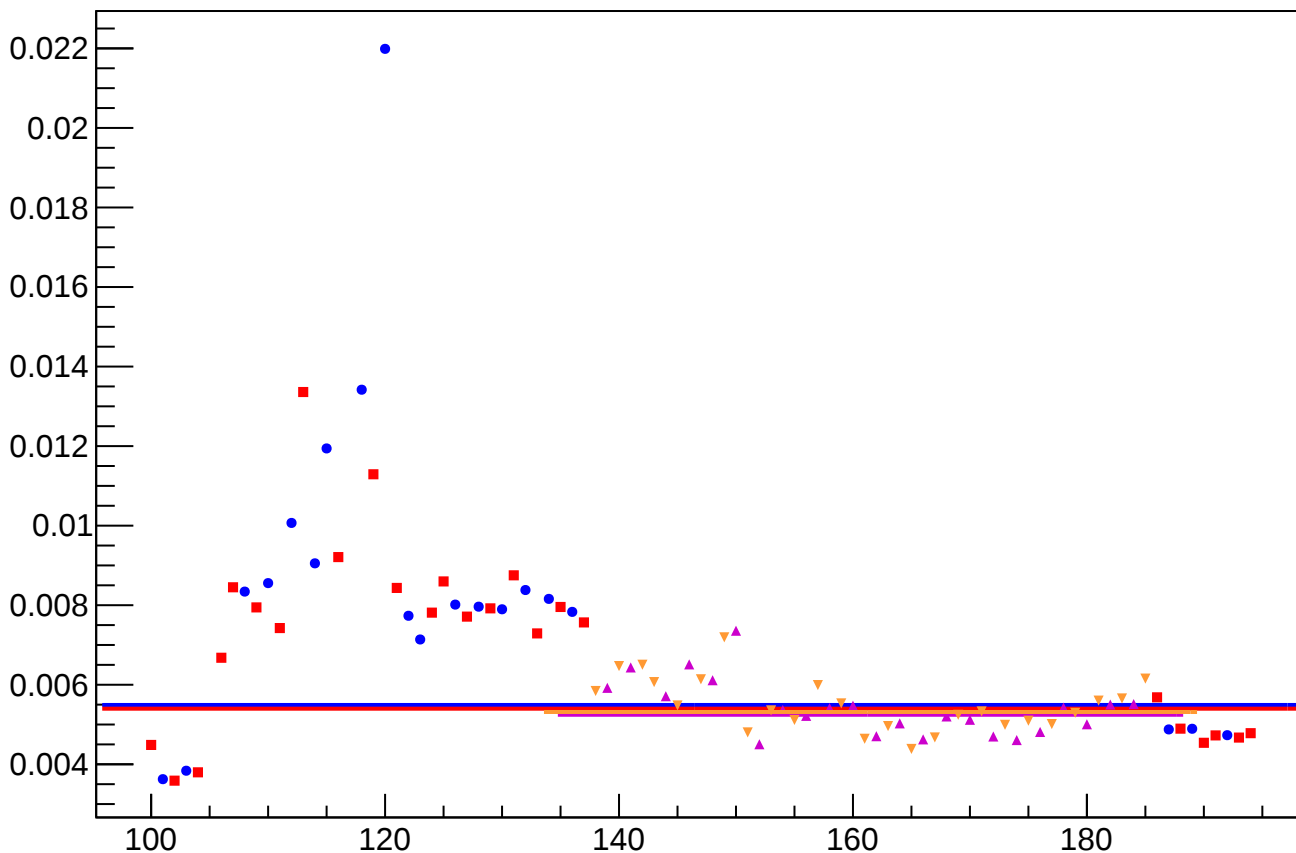
Right: 1.286 $\pm$ 0.000 χ^2 /NDF: 533361682276.4/44

In: 1.977 $\pm$ 0.000 χ^2 /NDF: 592388925348.8/42

Out: 1.855 $\pm$ 0.000 χ^2 /NDF: 761207966287.3/49

All: 1.912 $\pm$ 0.000 χ^2 /NDF: 1359801301795.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2000686.4/19

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1874810.2/24

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

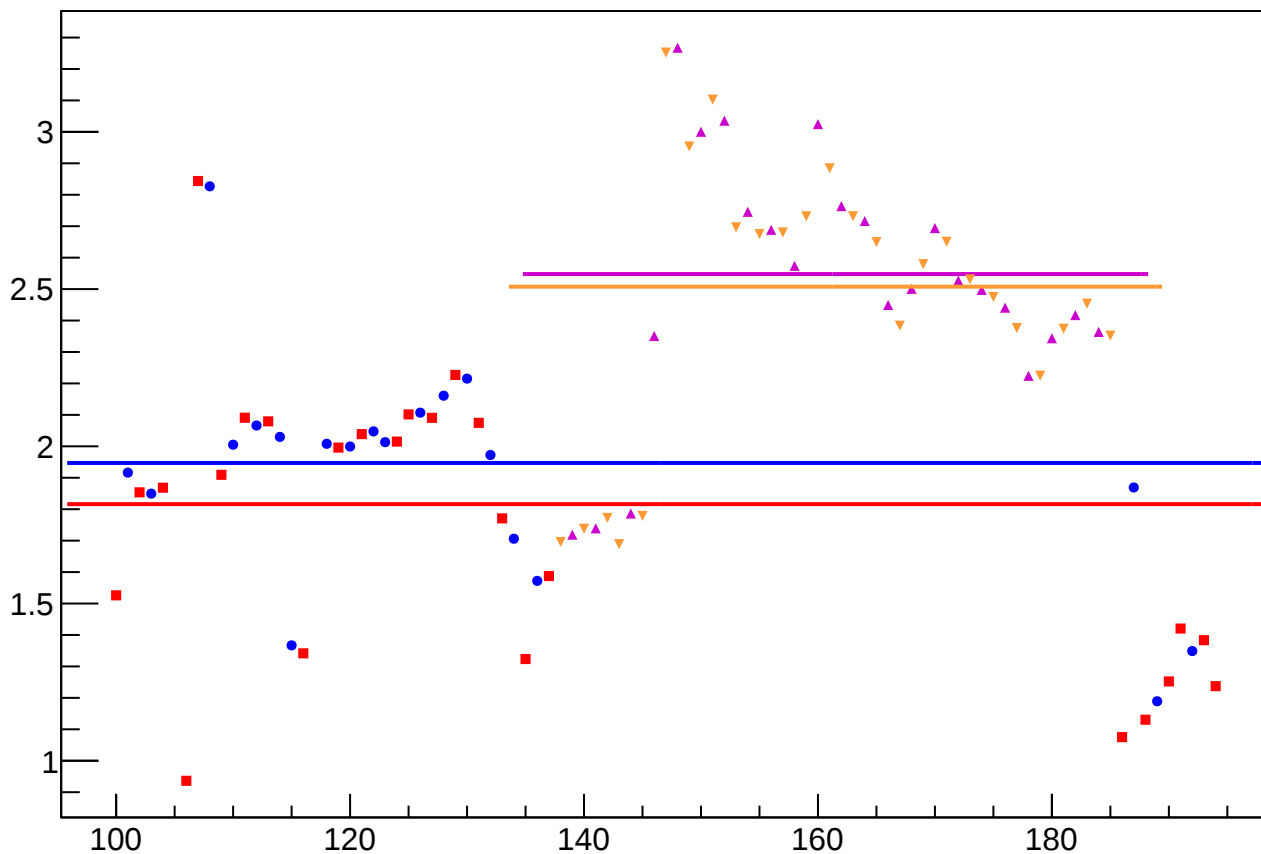
Right: 0.005+/-0.000 χ^2/NDF : 3877618.0/44

In: 0.005+/-0.000 χ^2/NDF :2444918.1/42

Out: 0.005+/-0.000 χ^2/NDF :2276288.7/49

All: 0.005+/-0.000 χ^2/NDF : 4722057.5/92

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.947 $\pm$ 0.000 χ^2/NDF : 18774065878.0/19

Left Out: 2.508 $\pm$ 0.000 χ^2/NDF : 52355332406.0/24

Right Out: 1.816 $\pm$ 0.000 χ^2/NDF : 35424785828.9/24

Left In: 2.548 $\pm$ 0.000 χ^2/NDF : 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2/NDF : 97963993742.3/47

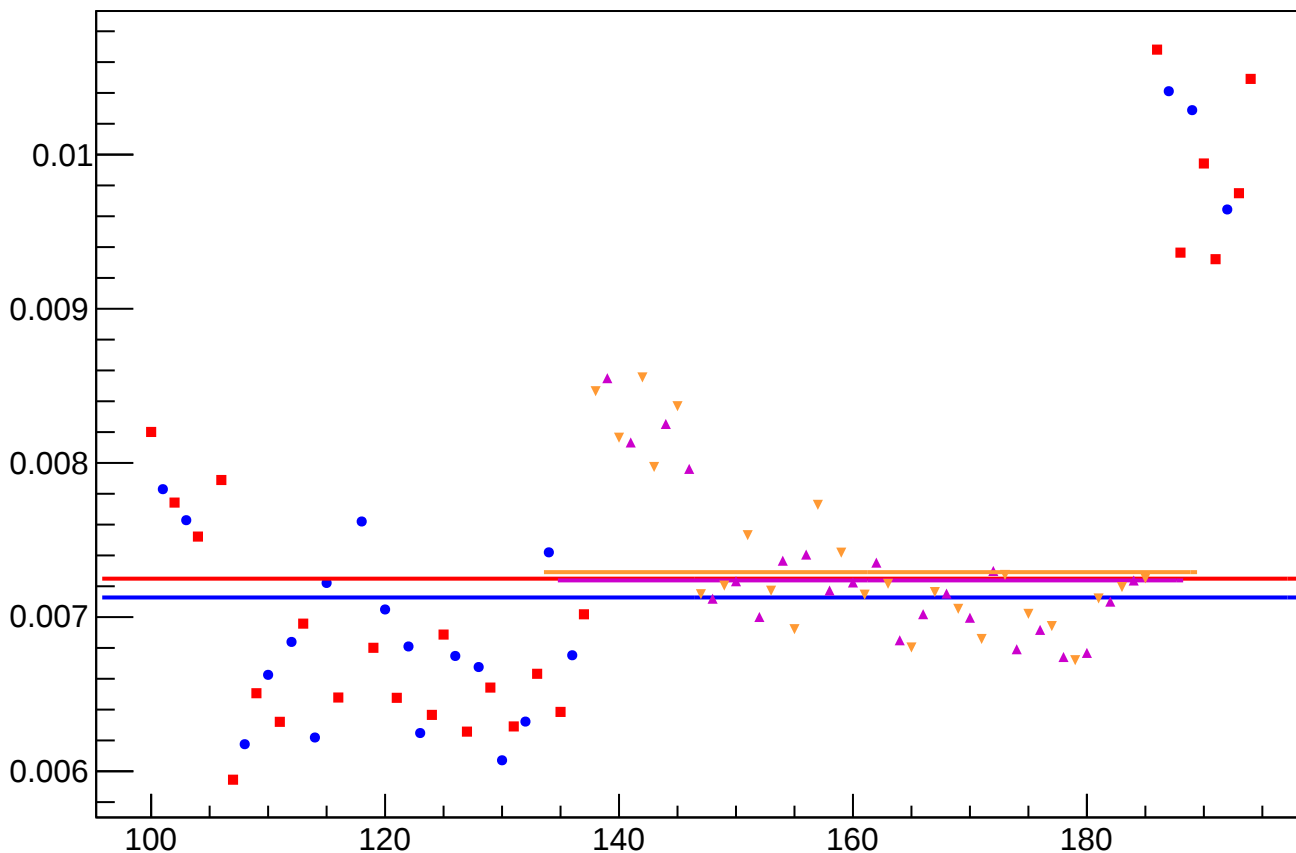
Right: 1.875 $\pm$ 0.000 χ^2/NDF : 55629671493.8/44

In: 2.353 $\pm$ 0.000 χ^2/NDF : 101109694245.7/42

Out: 2.258 $\pm$ 0.000 χ^2/NDF : 144460026306.7/49

All: 2.304 $\pm$ 0.000 χ^2/NDF : 247789696492.9

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 339027.3/19

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 647708.0/24

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

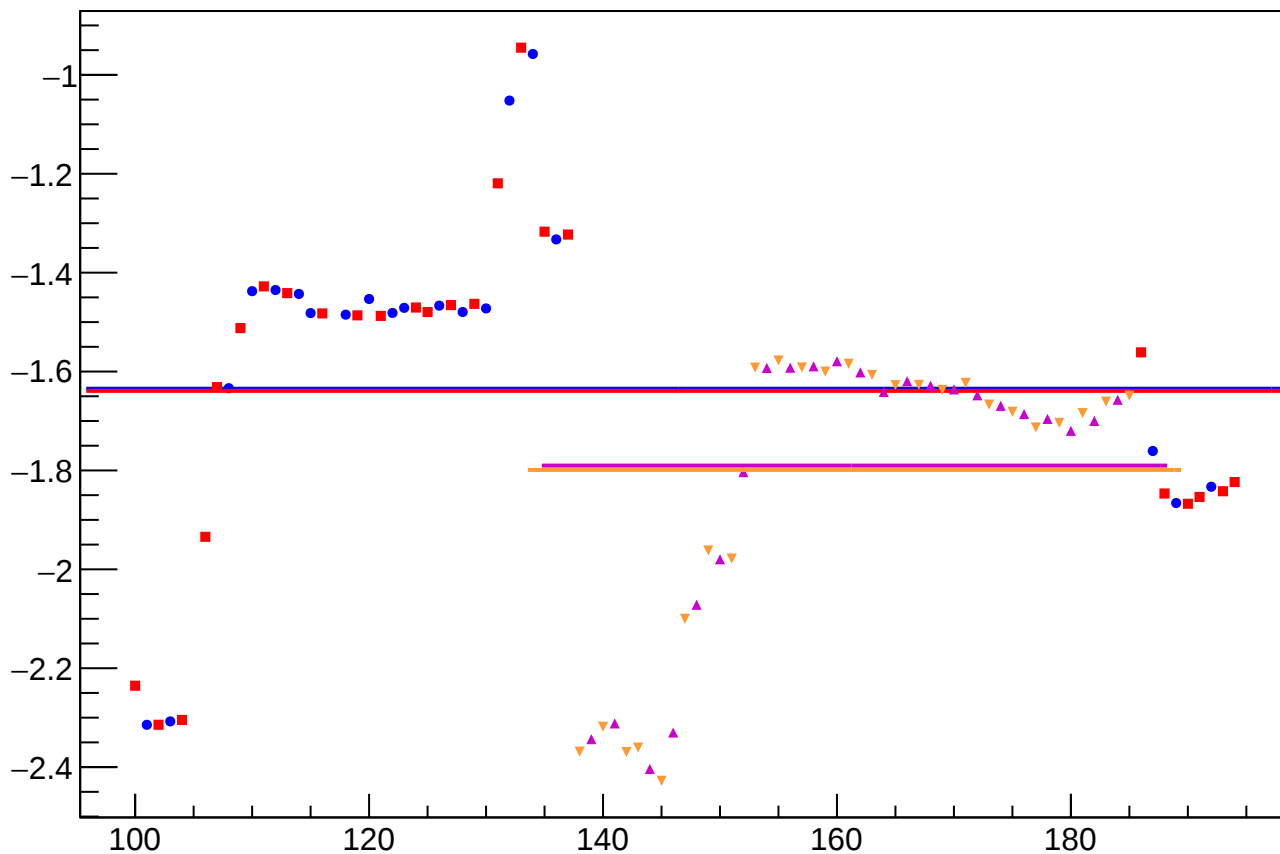
Right: 0.007+/-0.000 χ^2/NDF : 989216.7/44

In: 0.007+/-0.000 χ^2/NDF :466774.1/42

Out: 0.007+/-0.000 χ^2/NDF :788919.6/49

All: 0.007+/-0.000 χ^2/NDF : 1258384.7/92

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.635+/-0.000 χ^2 /NDF: 147109369187.5/19

Left Out: -1.799+/-0.000 χ^2 /NDF: 185362087438.8/24

Right Out: -1.639+/-0.000 χ^2 /NDF: 158662482687.6/24

Left In: -1.790+/-0.000 χ^2 /NDF: 159648935510.8/22

Left: -1.795+/-0.000 χ^2 /NDF: 345099435201.4/47

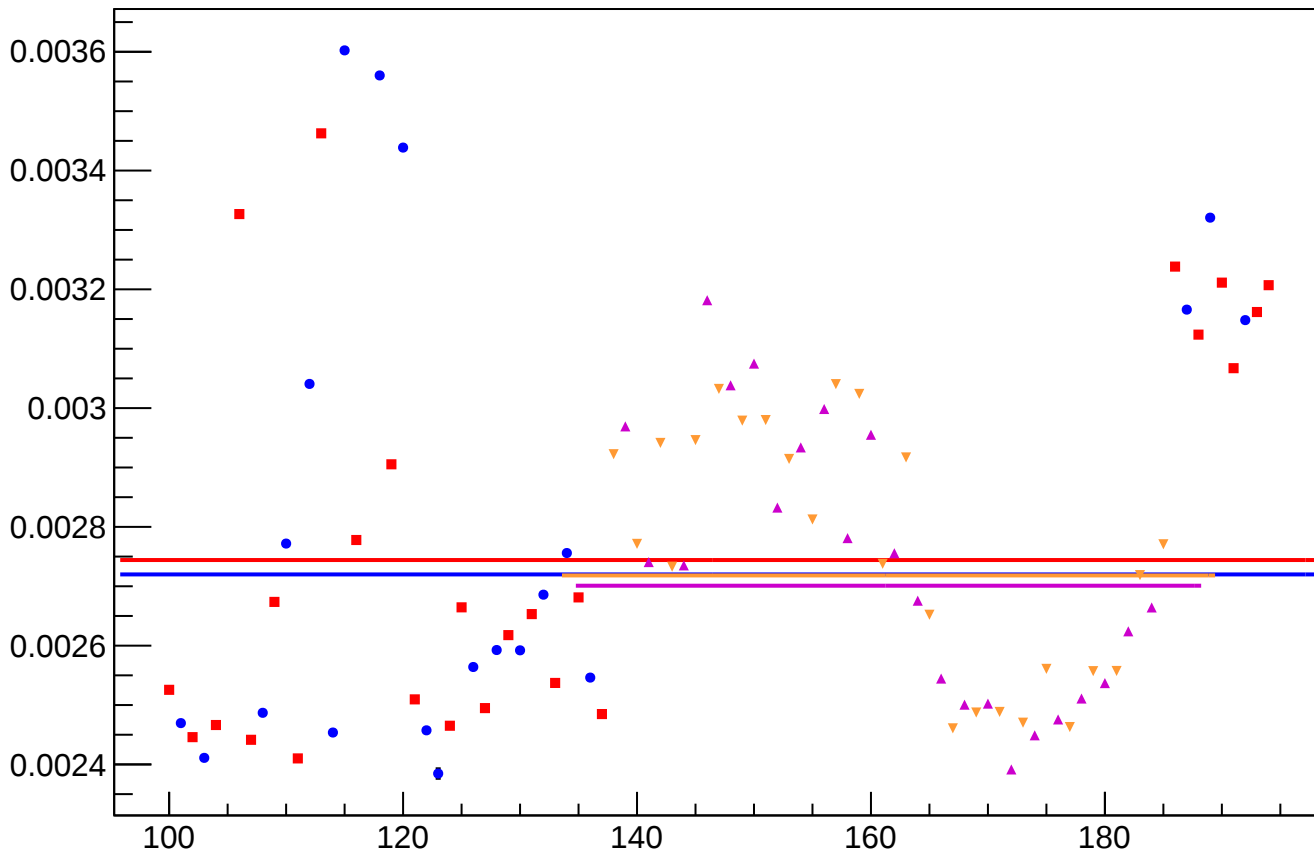
Right: -1.637+/-0.000 χ^2 /NDF: 305782645530.3/44

In: -1.741+/-0.000 χ^2 /NDF: 324018173221.5/42

Out: -1.743+/-0.000 χ^2 /NDF: 365354373009.1/49

All: -1.742+/-0.000 χ^2 /NDF: 689375143994.5

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 231499.0/19

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 252069.5/24

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

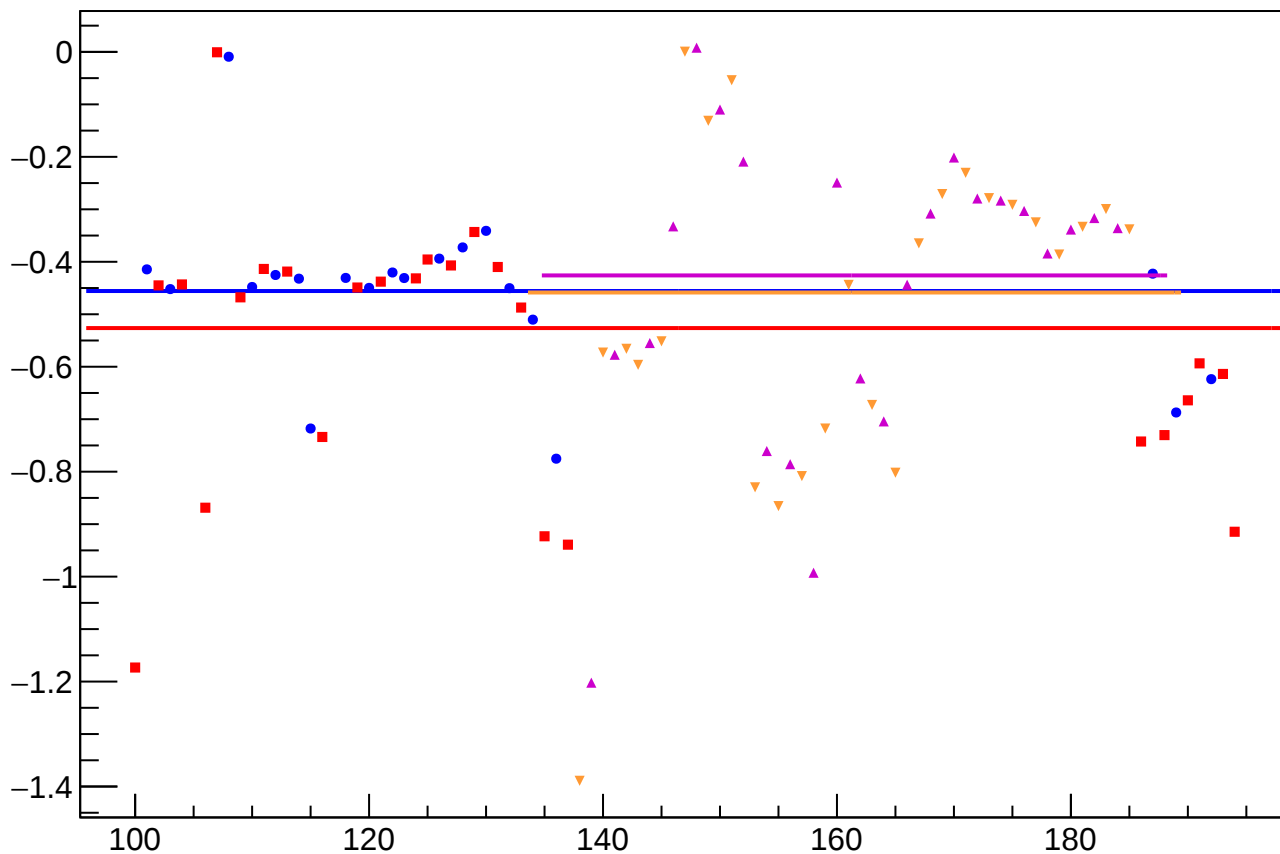
Right: 0.003+/-0.000 χ^2/NDF : 484244.9/44

In: 0.003+/-0.000 χ^2/NDF :452343.0/42

Out: 0.003+/-0.000 χ^2/NDF :452886.5/49

All: 0.003+/-0.000 χ^2/NDF : 906686.5/92

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.456+/-0.000 χ^2/NDF : 1647208590.5/19

Left Out: -0.459+/-0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.526+/-0.000 χ^2/NDF : 3485227100.2/24

Left In: -0.426+/-0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443+/-0.000 χ^2/NDF : 18401926676.9/47

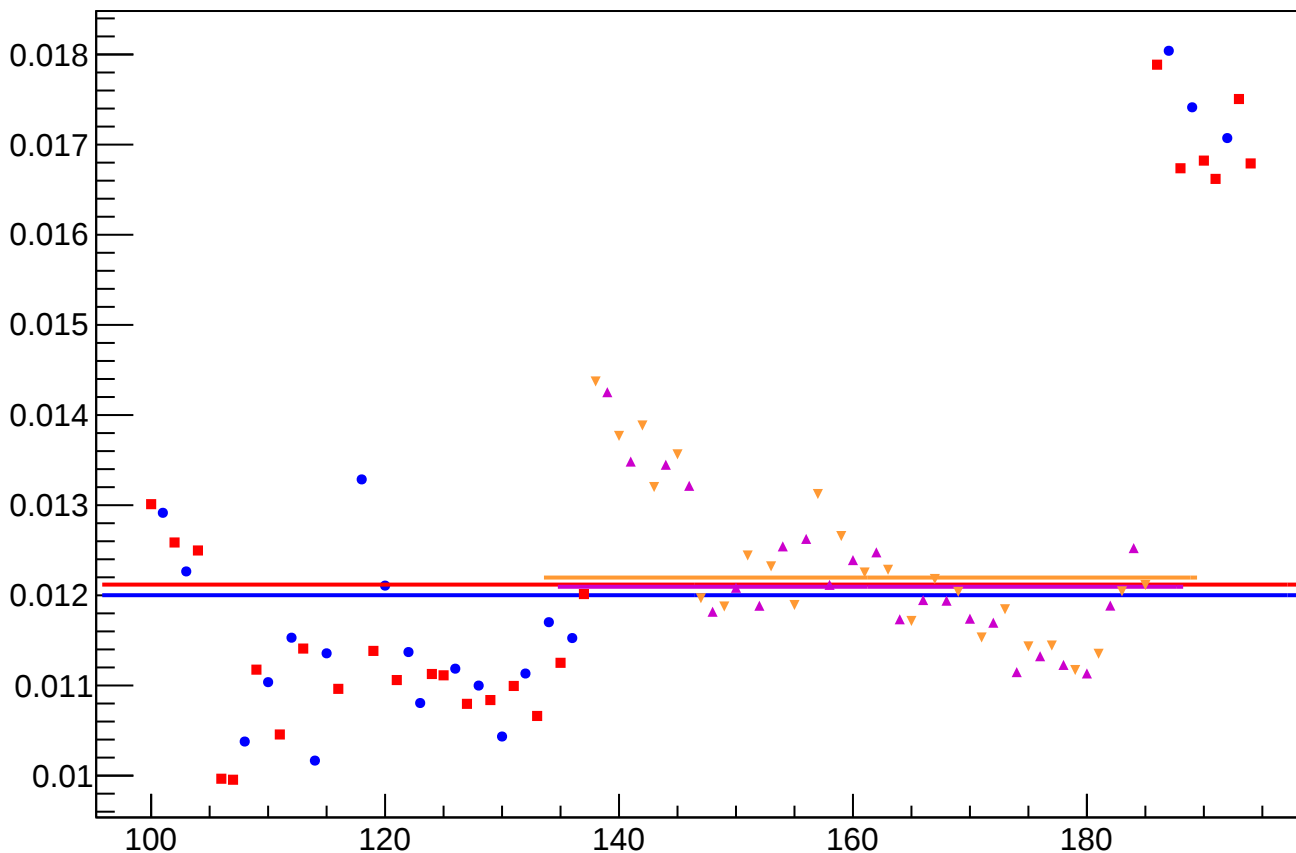
Right: -0.495+/-0.000 χ^2/NDF : 5282601125.6/44

In: -0.436+/-0.000 χ^2/NDF : 10103840314.2/42

Out: -0.483+/-0.000 χ^2/NDF : 13599767646.1/49

All: -0.461+/-0.000 χ^2/NDF : 23903800228.5/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 373965.4/19

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 736161.1/24

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

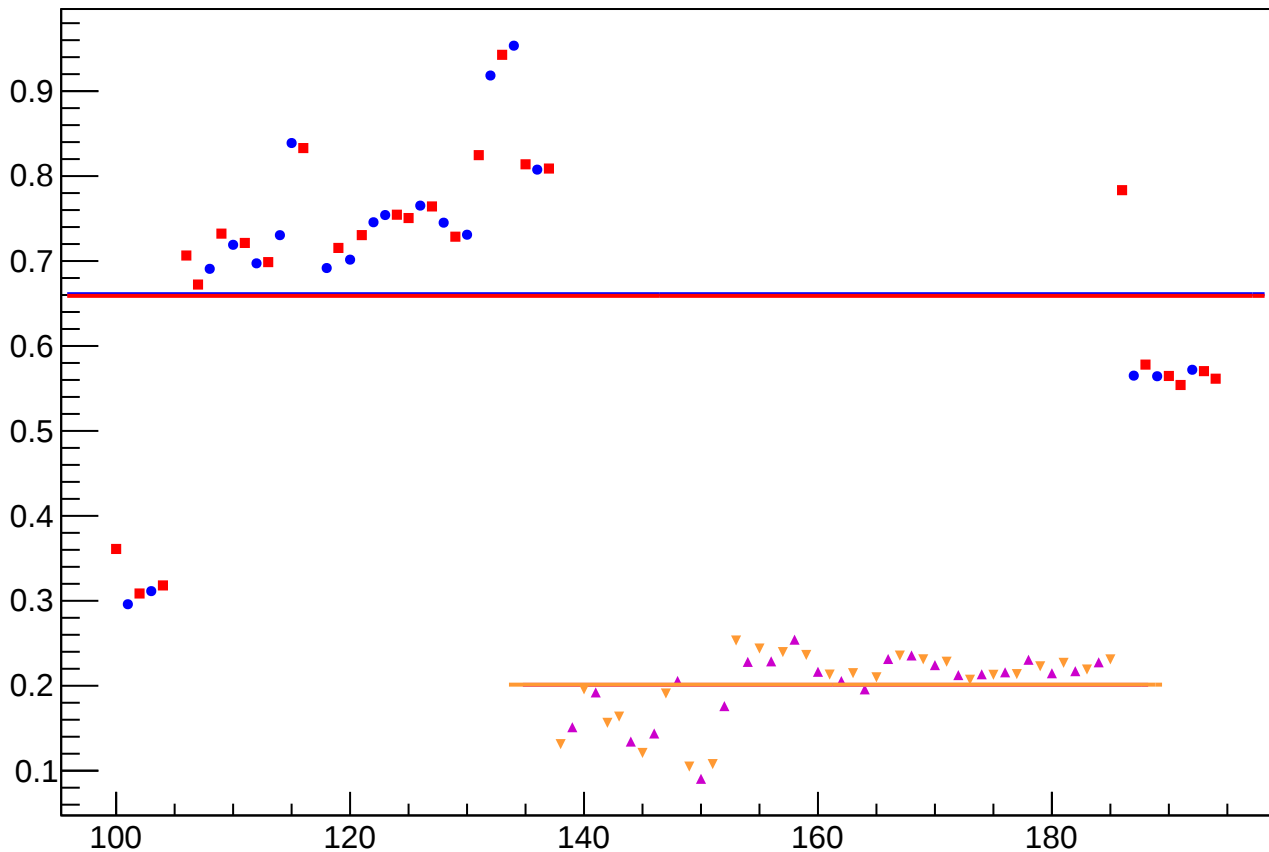
Right: 0.012+/-0.000 χ^2/NDF : 1110960.9/44

In: 0.012+/-0.000 χ^2/NDF :501916.8/42

Out: 0.012+/-0.000 χ^2/NDF :878537.9/49

All: 0.012+/-0.000 χ^2/NDF : 1382359.8/92

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.661 $\pm$ 0.000 χ^2 /NDF: 40383634185.9/19

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.659 $\pm$ 0.000 χ^2 /NDF: 40252598106.8/24

Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2 /NDF: 12762673178.0/47

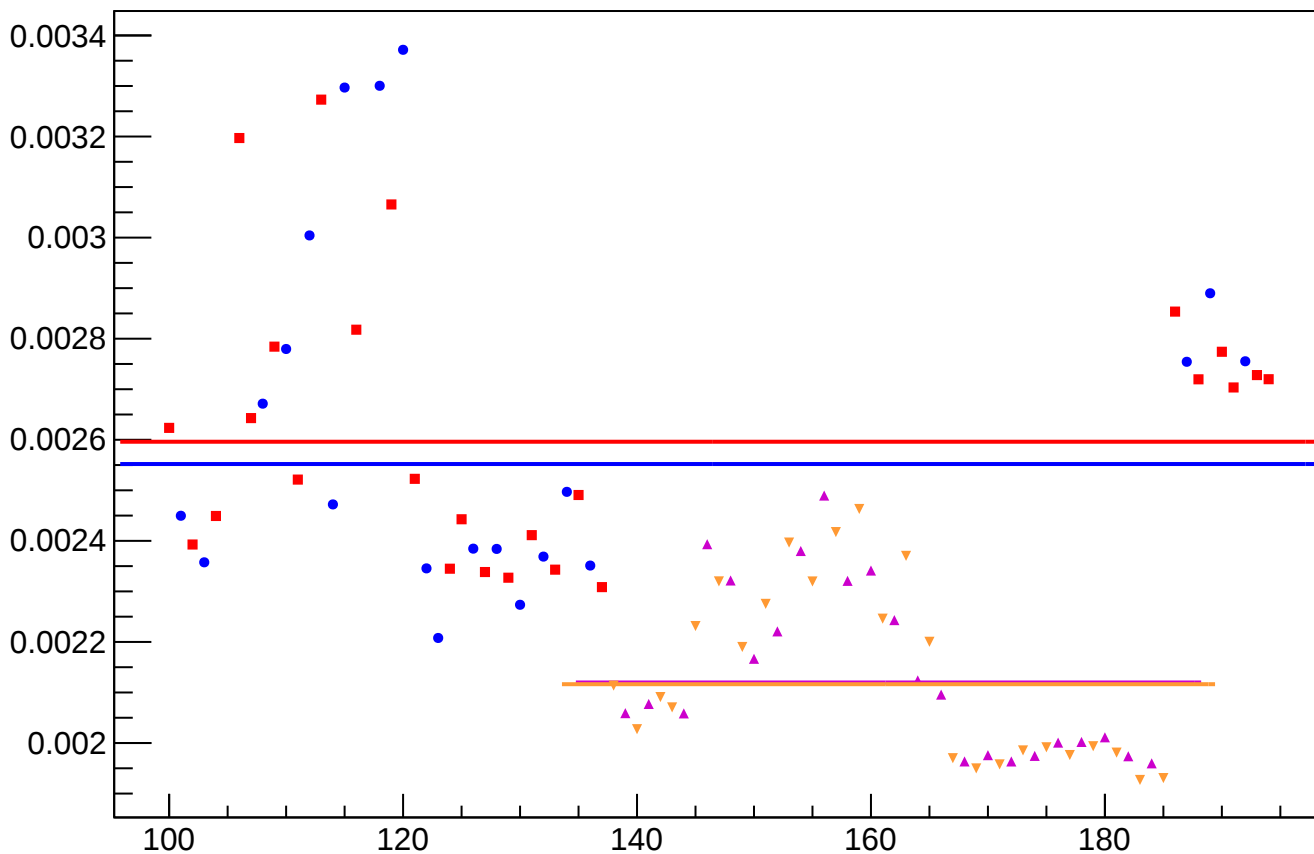
Right: 0.660 $\pm$ 0.000 χ^2 /NDF: 80638757353.0/44

In: 0.311 $\pm$ 0.000 χ^2 /NDF: 239012520780.0/42

Out: 0.324 $\pm$ 0.000 χ^2 /NDF: 275032001940.2/49

All: 0.318 $\pm$ 0.000 χ^2 /NDF: 514492308805.3

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 202314.9/19

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 159349.9/24

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

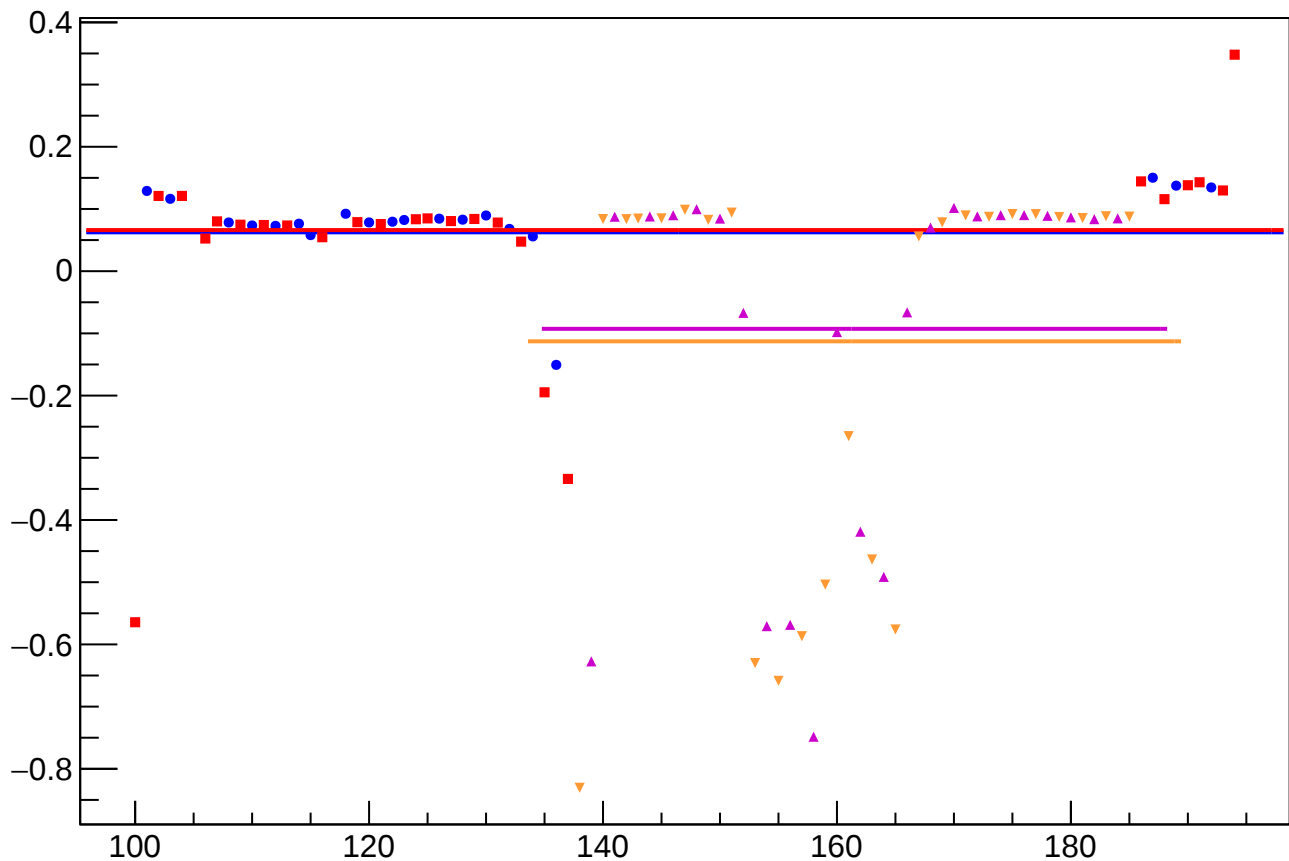
Right: 0.003+/-0.000 χ^2/NDF : 364247.9/44

In: 0.002+/-0.000 χ^2/NDF :732387.3/42

Out: 0.002+/-0.000 χ^2/NDF :884145.5/49

All: 0.002+/-0.000 χ^2/NDF : 1619061.7/92

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.062+/-0.000

χ^2/NDF : 460178446.4/19

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.064+/-0.000

χ^2/NDF : 1574113845.6/44

Right Out: 0.066+/-0.000

χ^2/NDF : 1113411422.5/24

In: -0.039+/-0.000

χ^2/NDF : 12667341460.6/42

Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

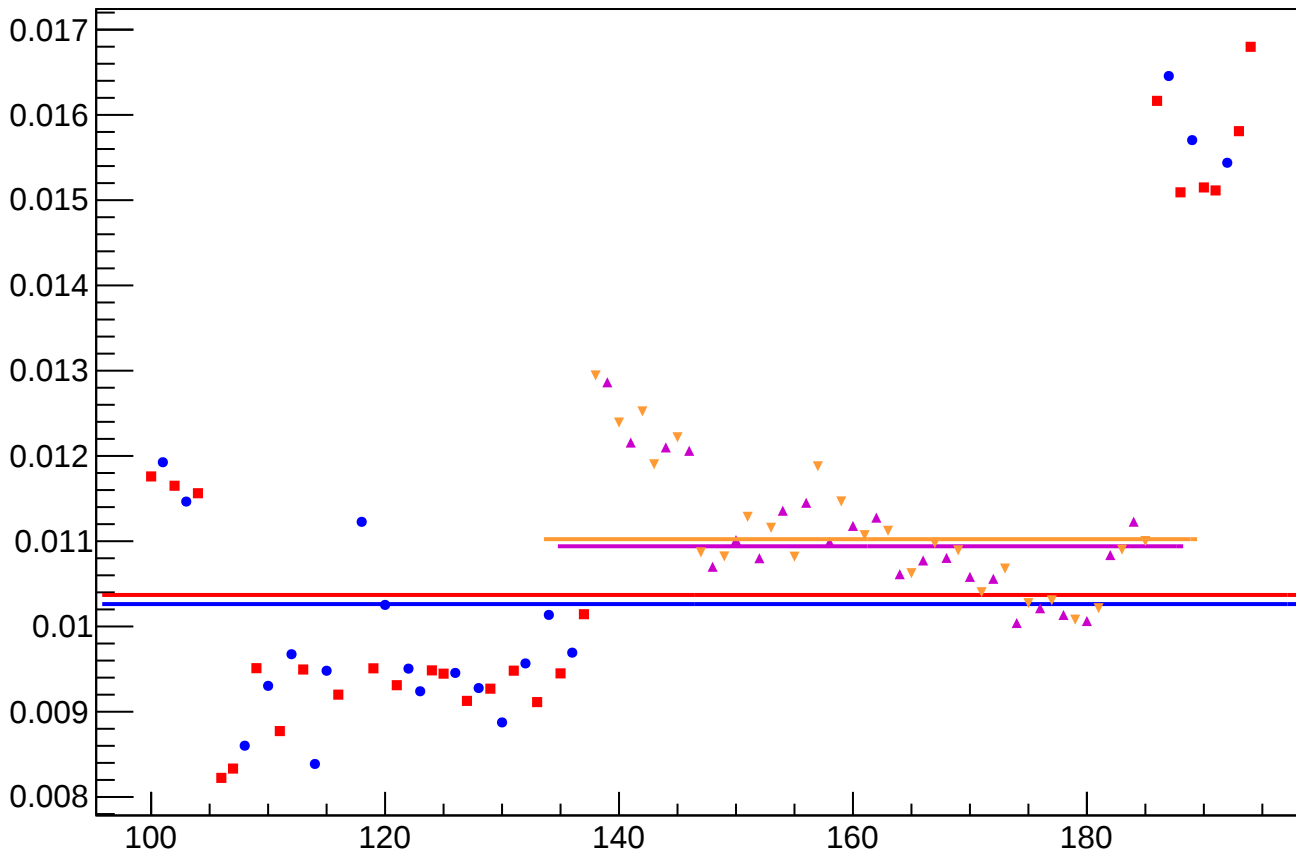
Out: -0.044+/-0.000

χ^2/NDF : 16563031550.9/49

All: -0.042+/-0.000

χ^2/NDF : 29233110725.0/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 502823.9/19

Left Out: 0.011+/-0.000 χ^2/NDF : 141501.7/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1022253.1/24

Left In: 0.011+/-0.000 χ^2/NDF : 128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

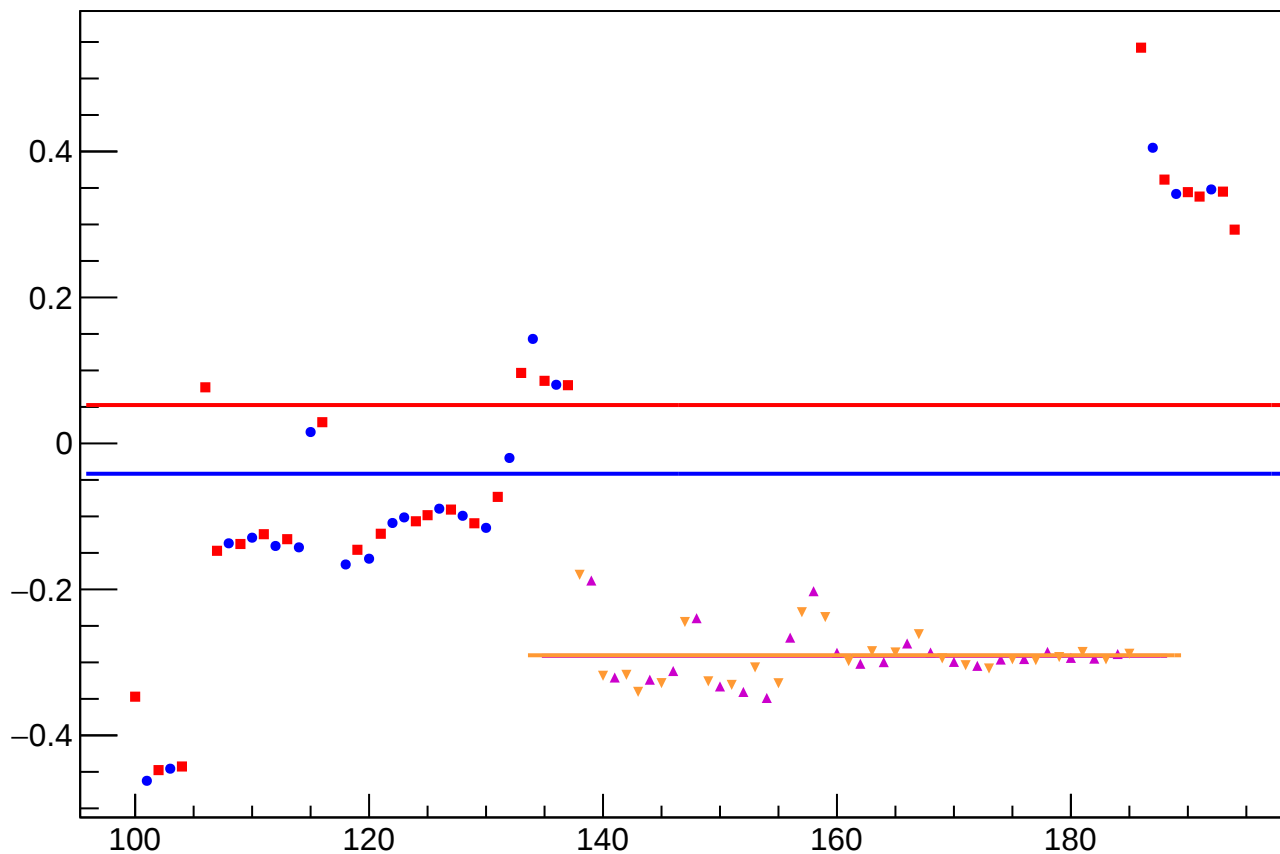
Right: 0.010+/-0.000 χ^2/NDF : 1526005.6/44

In: 0.011+/-0.000 χ^2/NDF : 675854.6/42

Out: 0.011+/-0.000 χ^2/NDF : 1211466.1/49

All: 0.011+/-0.000 χ^2/NDF : 1888296.6/92

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.042 ± 0.000 $\chi^2/\text{NDF}: 32829437881.7/19$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: 0.053 ± 0.000 $\chi^2/\text{NDF}: 45237938795.2/24$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

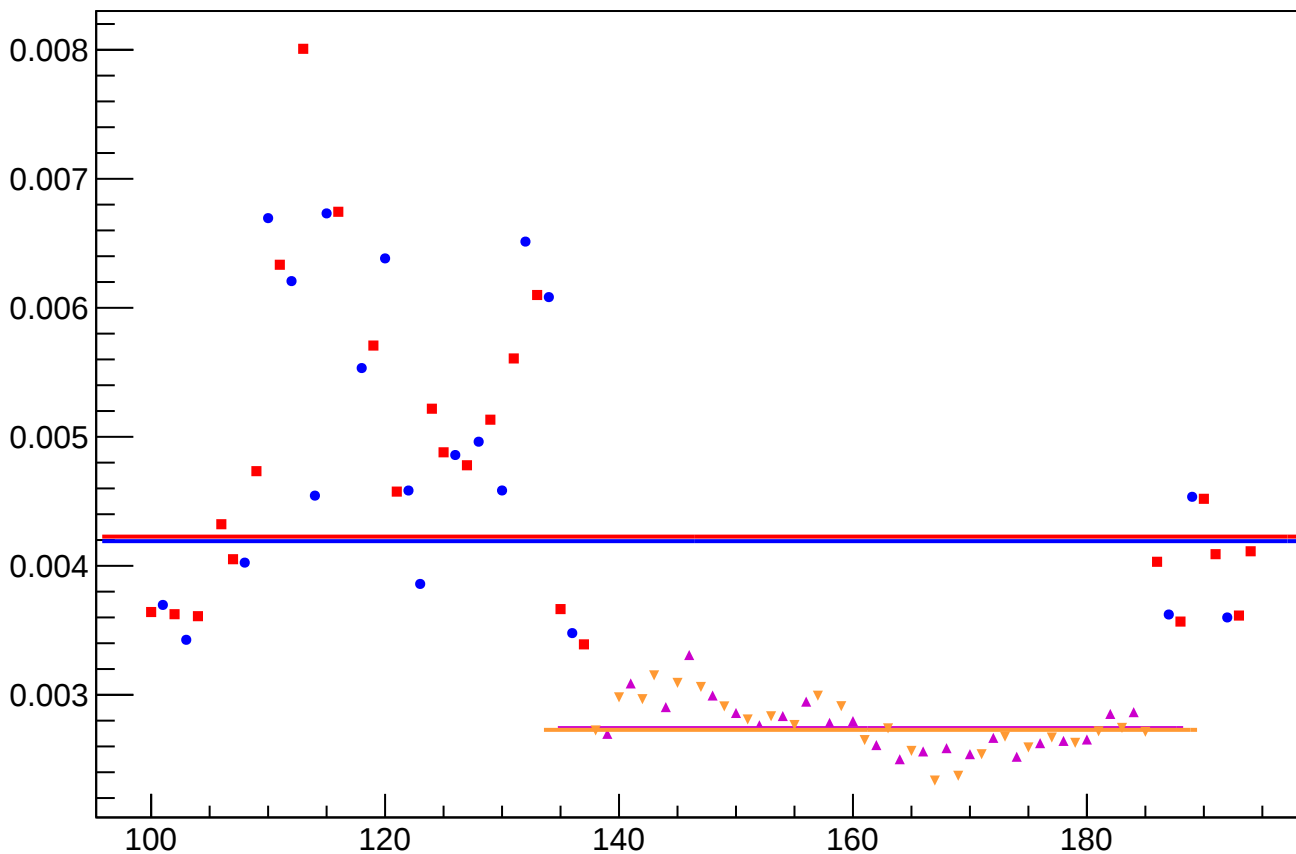
Right: 0.011 ± 0.000 $\chi^2/\text{NDF}: 80095997300.1/44$

In: -0.252 ± 0.000 $\chi^2/\text{NDF}: 57510789325.3/42$

Out: -0.229 ± 0.000 $\chi^2/\text{NDF}: 97969524528.4/49$

All: -0.240 ± 0.000 $\chi^2/\text{NDF}: 156210663226.8$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 686409.7/19

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 784571.2/24

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

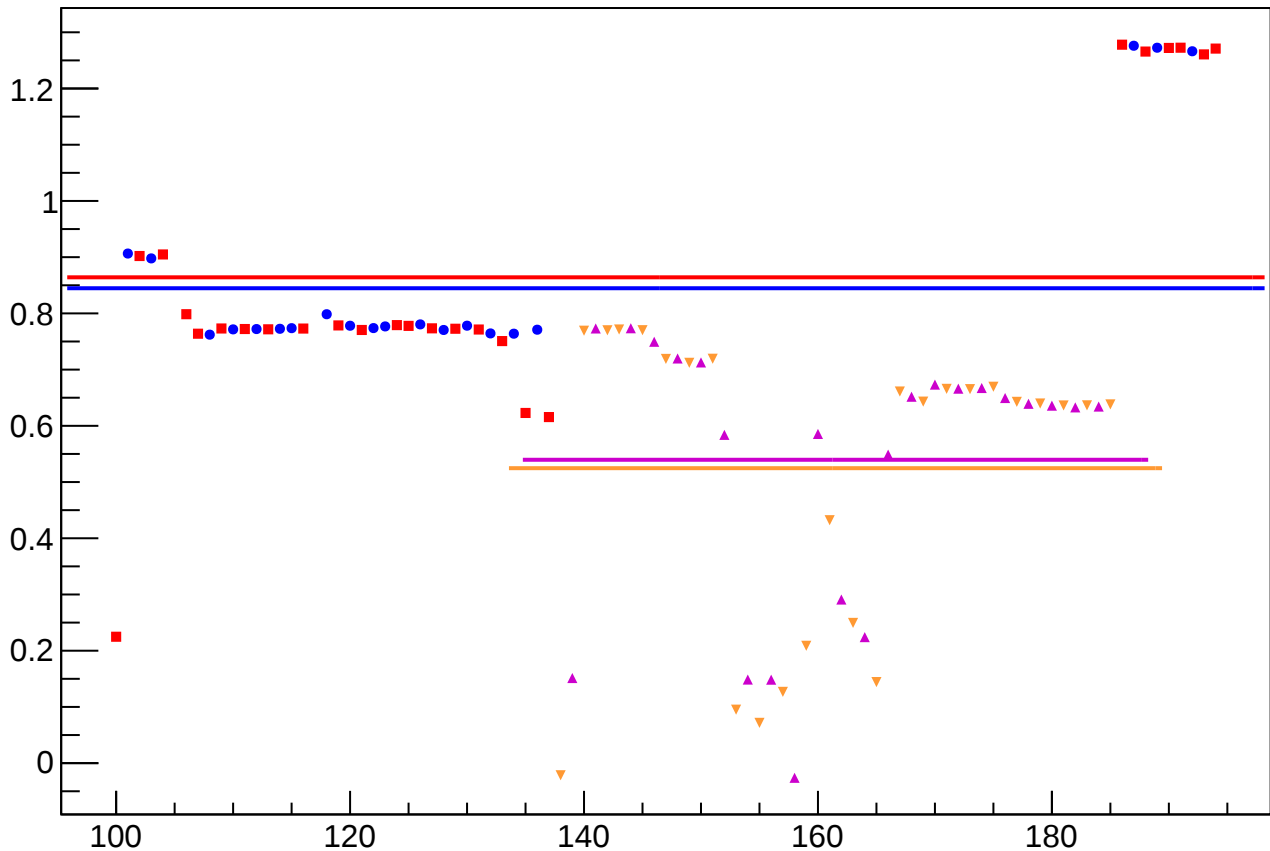
Right: 0.004+/-0.000 χ^2/NDF : 1471551.0/44

In: 0.003+/-0.000 χ^2/NDF :2288282.3/42

Out: 0.003+/-0.000 χ^2/NDF :2894551.2/49

All: 0.003+/-0.000 χ^2/NDF : 5184877.3/92

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.845+/-0.000 χ^2/NDF : 1489697382.2/19

Left Out: 0.525+/-0.000 χ^2/NDF : 9623503169.9/24

Right Out: 0.864+/-0.000 χ^2/NDF : 3300188990.6/24

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532+/-0.000 χ^2/NDF : 17500739852.2/47

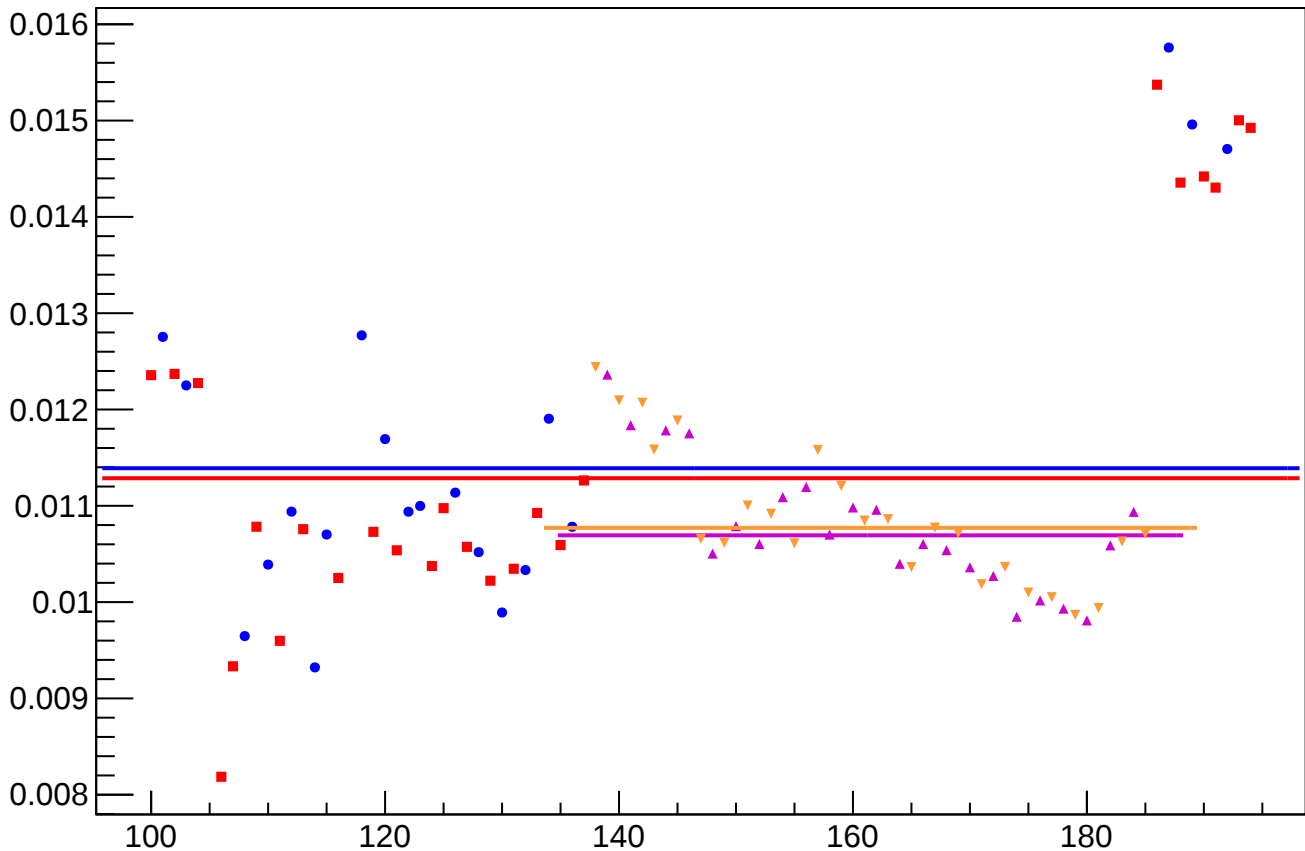
Right: 0.856+/-0.000 χ^2/NDF : 4802653485.7/44

In: 0.629+/-0.000 χ^2/NDF : 13326973967.7/42

Out: 0.639+/-0.000 χ^2/NDF : 18822442425.7/49

All: 0.634+/-0.000 χ^2/NDF : 32159567589.2/95

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 285048.9/19

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 543940.6/24

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

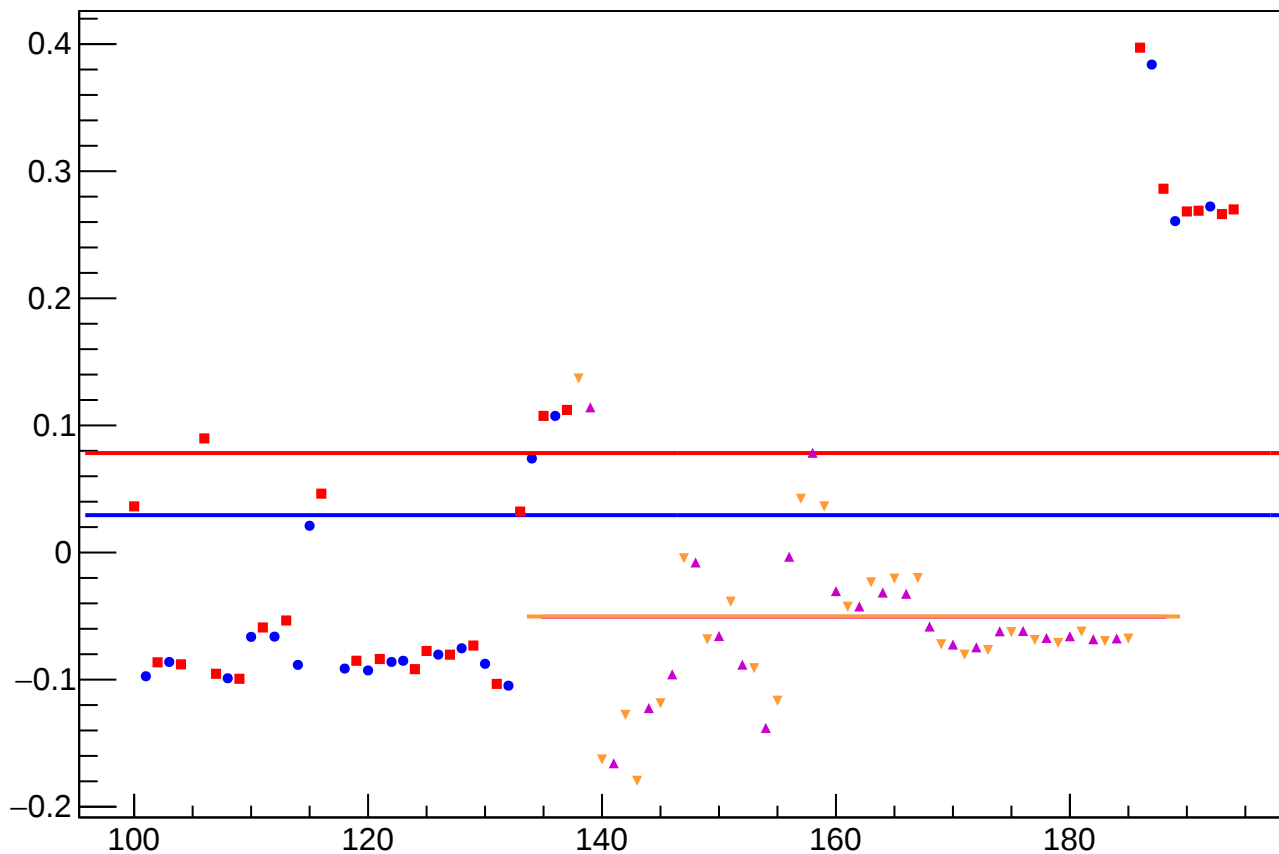
Right: 0.011+/-0.000 χ^2/NDF : 829718.8/44

In: 0.011+/-0.000 χ^2/NDF :445812.1/42

Out: 0.011+/-0.000 χ^2/NDF :702769.0/49

All: 0.011+/-0.000 χ^2/NDF : 1149053.7/92

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.029+/-0.000

χ^2/NDF : 8053305876.6/19

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.056+/-0.000

χ^2/NDF : 20836282258.9/44

Right Out: 0.078+/-0.000

χ^2/NDF : 12300139001.8/24

In: -0.037+/-0.000

χ^2/NDF : 16159865458.8/42

Out: -0.027+/-0.000

χ^2/NDF : 25507067949.3/49

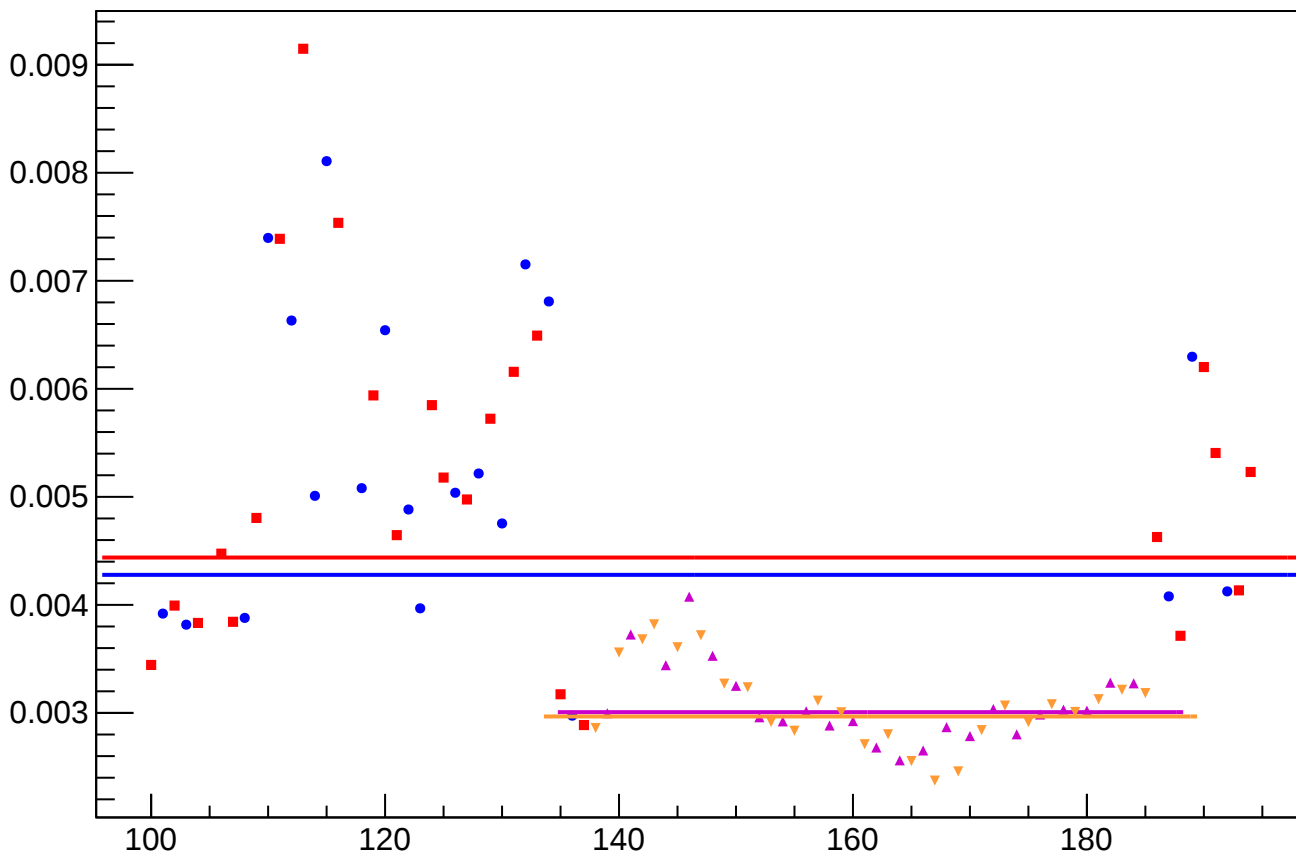
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: -0.031+/-0.000

χ^2/NDF : 41783657404.4/100

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 974766.4/19

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1130579.8/24

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

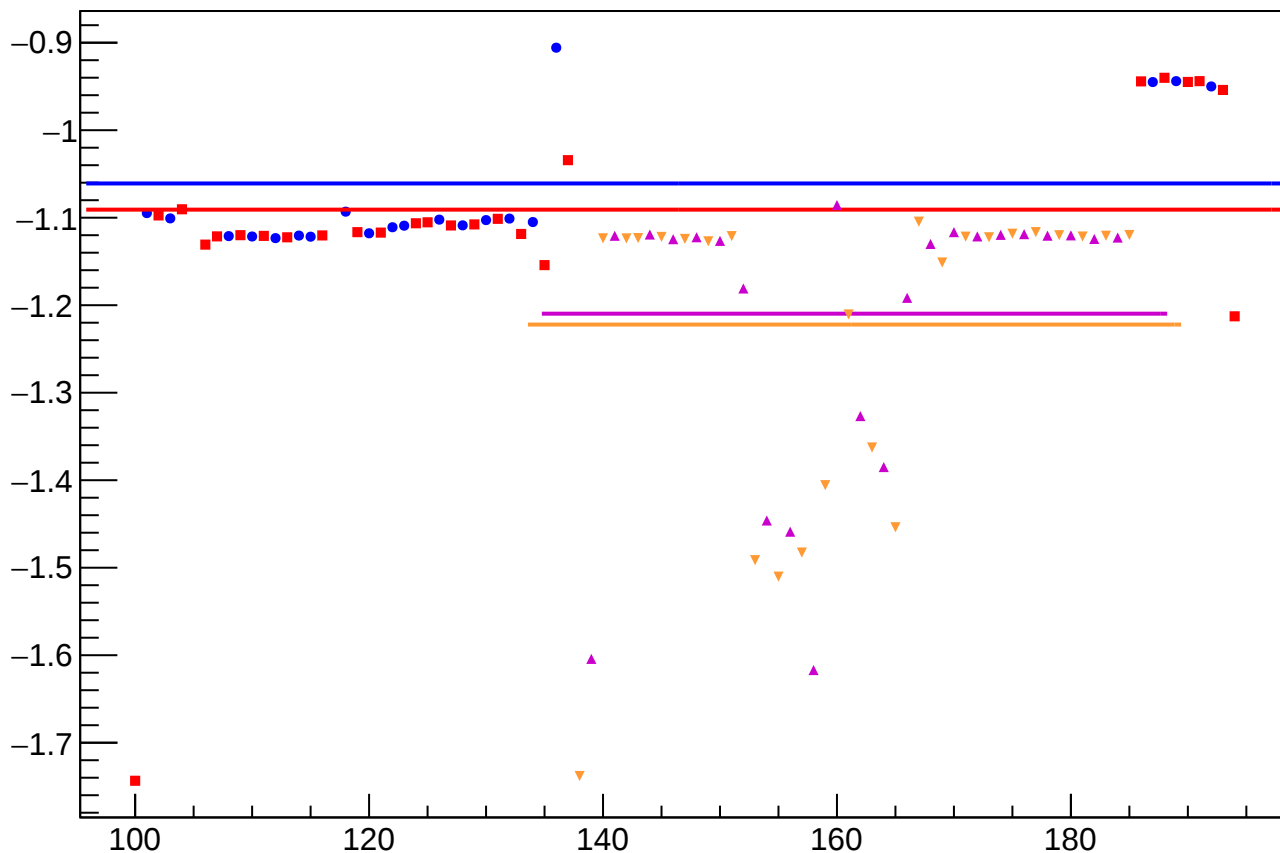
Right: 0.004+/-0.000 χ^2/NDF : 2115736.6/44

In: 0.003+/-0.000 χ^2/NDF : 2302720.5/42

Out: 0.003+/-0.000 χ^2/NDF : 3183932.4/49

All: 0.003+/-0.000 χ^2/NDF : 5486951.5/92

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.061+/-0.000 χ^2/NDF : 337262468.0/19

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.091+/-0.000 χ^2/NDF : 667078926.7/24

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

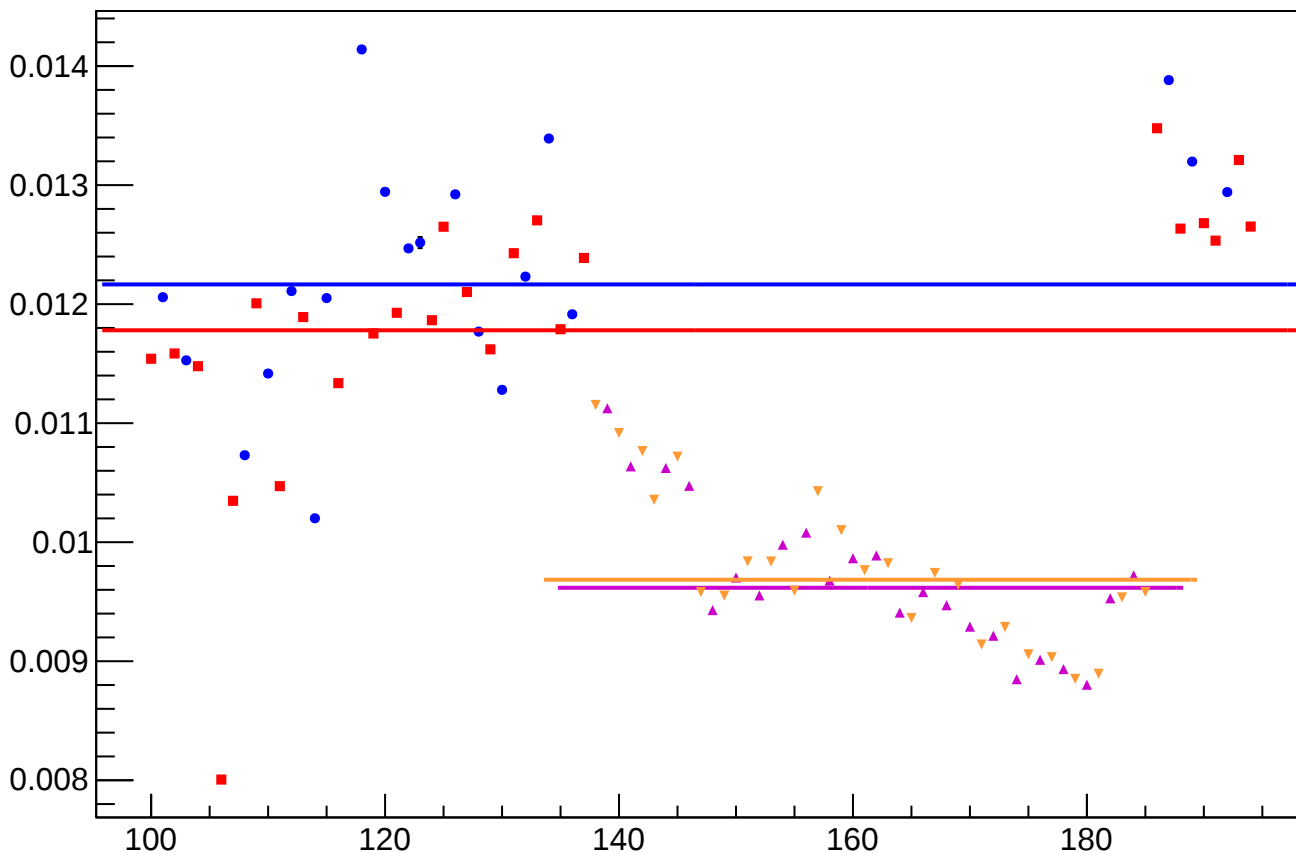
Right: -1.078+/-0.000 χ^2/NDF : 1032001437.6/44

In: -1.176+/-0.000 χ^2/NDF : 5753762976.8/42

Out: -1.185+/-0.000 χ^2/NDF : 6858217650.8/49

All: -1.181+/-0.000 χ^2/NDF : 12623618035.7/100

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 78206.7/19

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 219664.4/24

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

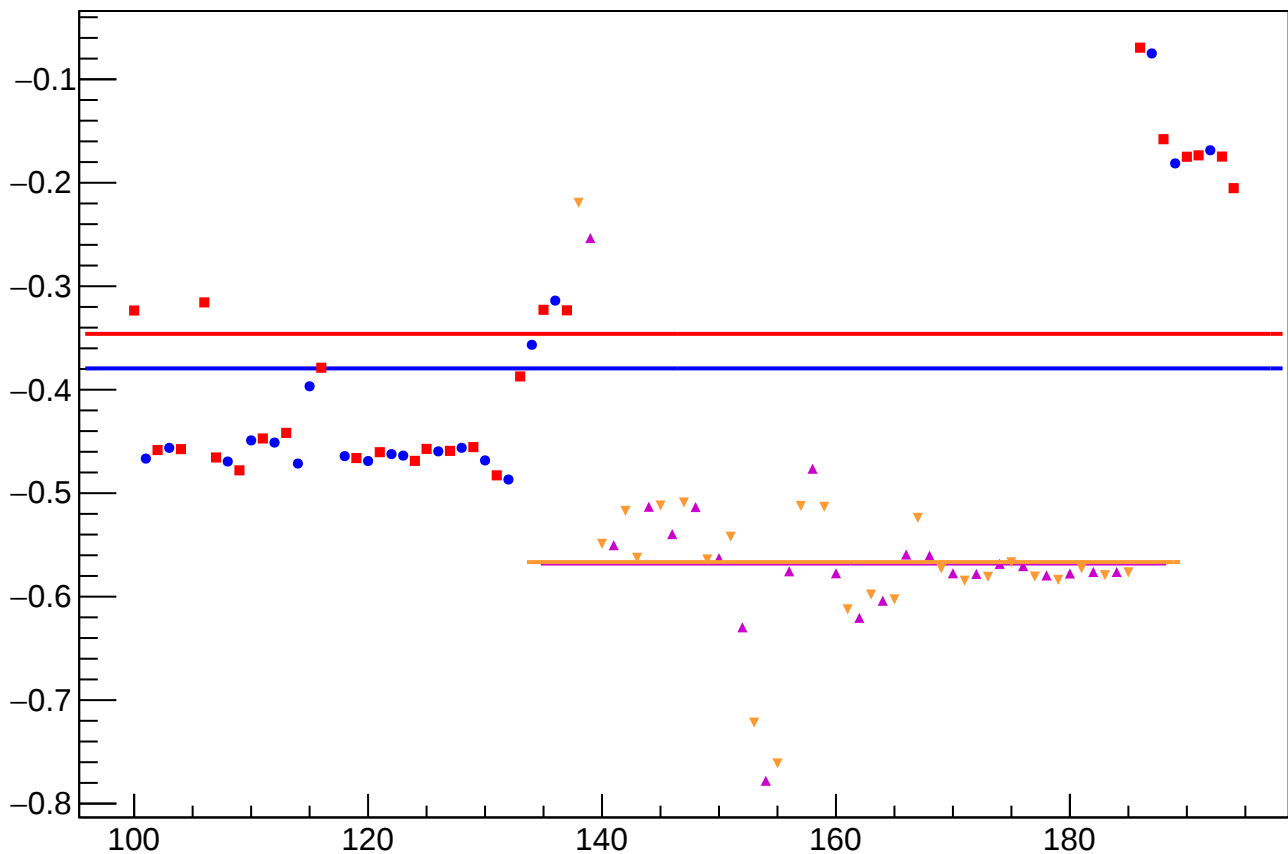
Right: 0.012+/-0.000 χ^2/NDF : 307043.4/44

In: 0.010+/-0.000 χ^2/NDF :734264.1/42

Out: 0.010+/-0.000 χ^2/NDF :818776.8/49

All: 0.010+/-0.000 χ^2/NDF : 1554322.2/92

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.379+/-0.000 χ^2/NDF : 6306307185.8/19

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.346+/-0.000 χ^2/NDF : 9918013710.6/24

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

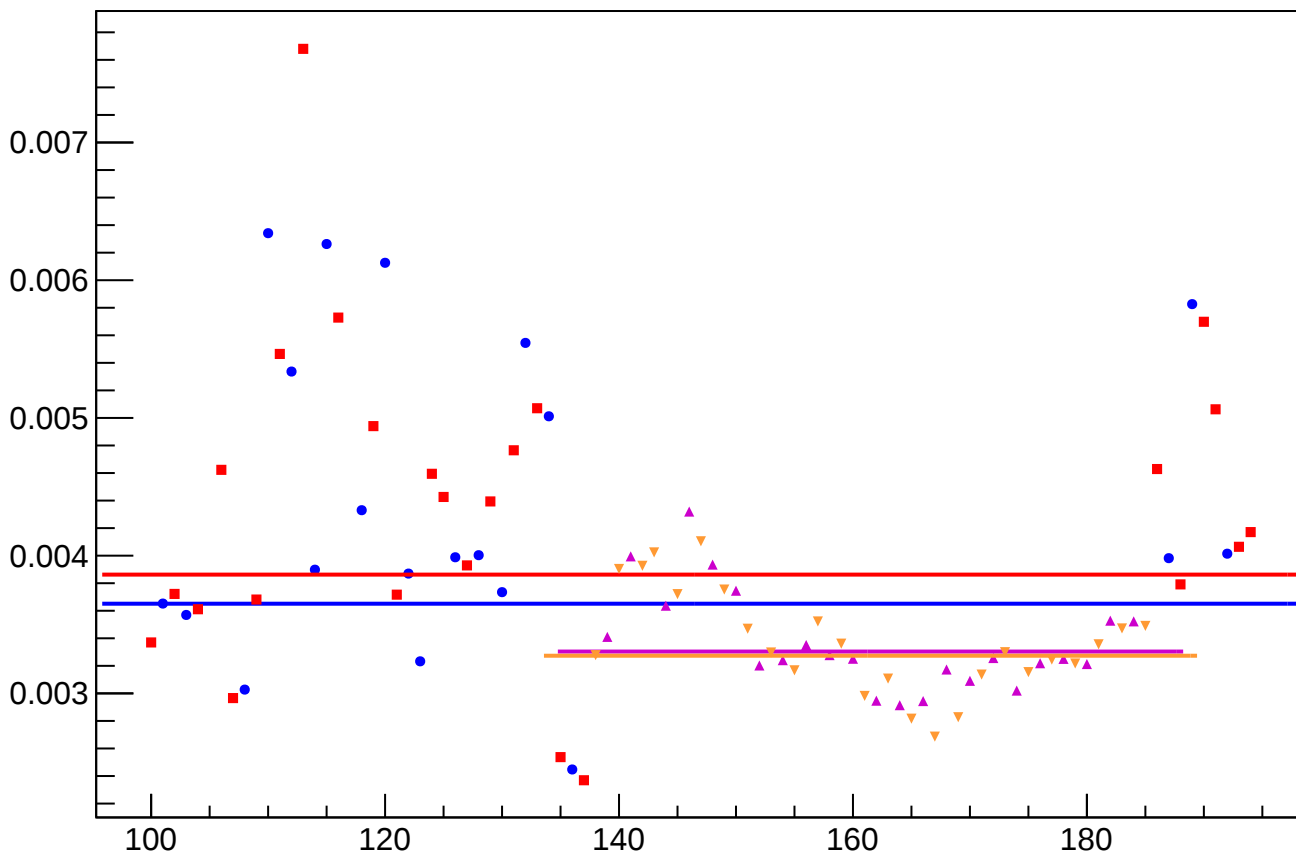
Right: -0.361+/-0.000 χ^2/NDF : 16531659637.0/44

In: -0.520+/-0.000 χ^2/NDF : 30235226635.6/42

Out: -0.506+/-0.000 χ^2/NDF : 44542119236.5/49

All: -0.513+/-0.000 χ^2/NDF : 74961658516.6/100

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 986043.9/19

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1027791.2/24

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

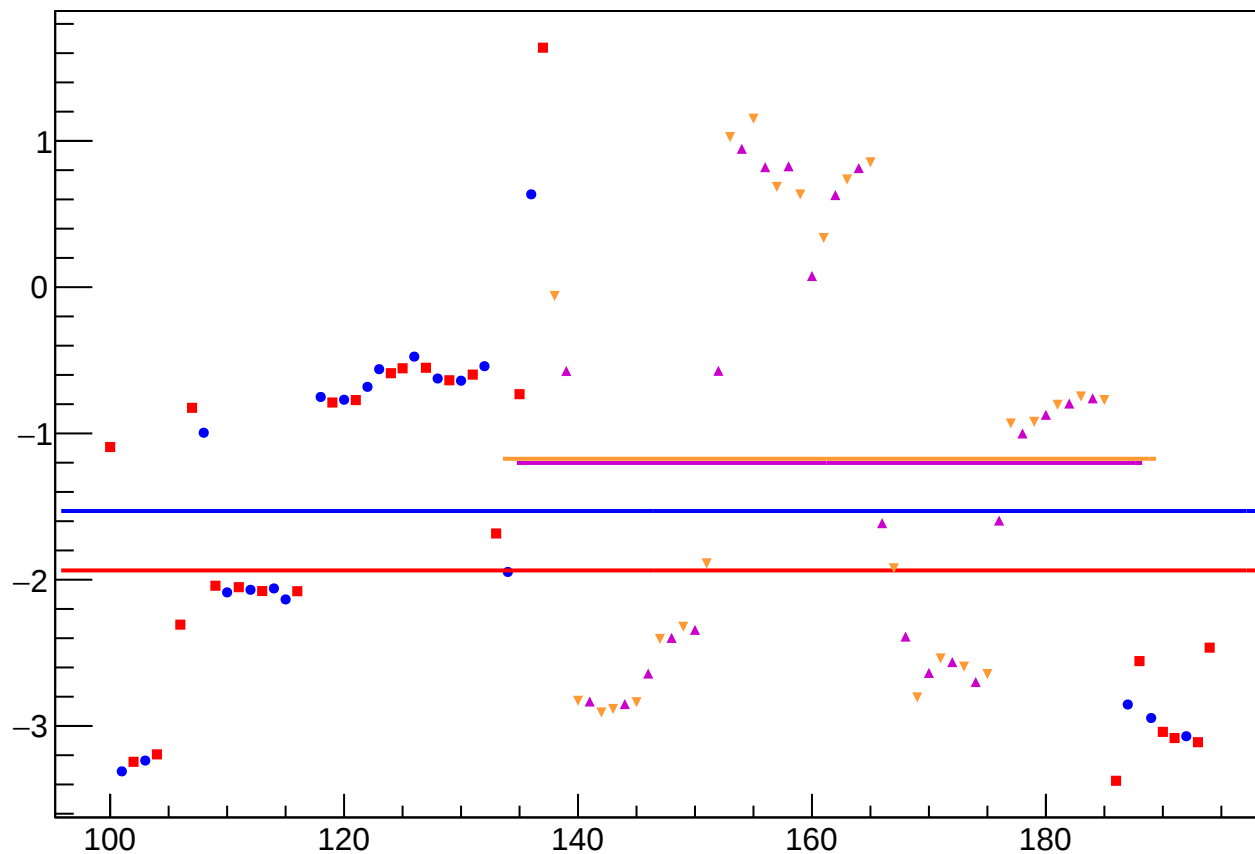
Right: 0.004+/-0.000 χ^2/NDF : 2038436.8/44

In: 0.003+/-0.000 χ^2/NDF : 1363517.9/42

Out: 0.003+/-0.000 χ^2/NDF : 1725757.9/49

All: 0.003+/-0.000 χ^2/NDF : 3092855.1/92

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.530 $\pm$ 0.000 χ^2 /NDF: 2734047243.6/19

Left Out: -1.173 $\pm$ 0.000 χ^2 /NDF: 6882684653.2/24

Right Out: -1.937 $\pm$ 0.000 χ^2 /NDF: 2507135139.6/24

Left In: -1.202 $\pm$ 0.000 χ^2 /NDF: 5606782515.9/22

Left: -1.187 $\pm$ 0.000 χ^2 /NDF: 12490828303.3/47

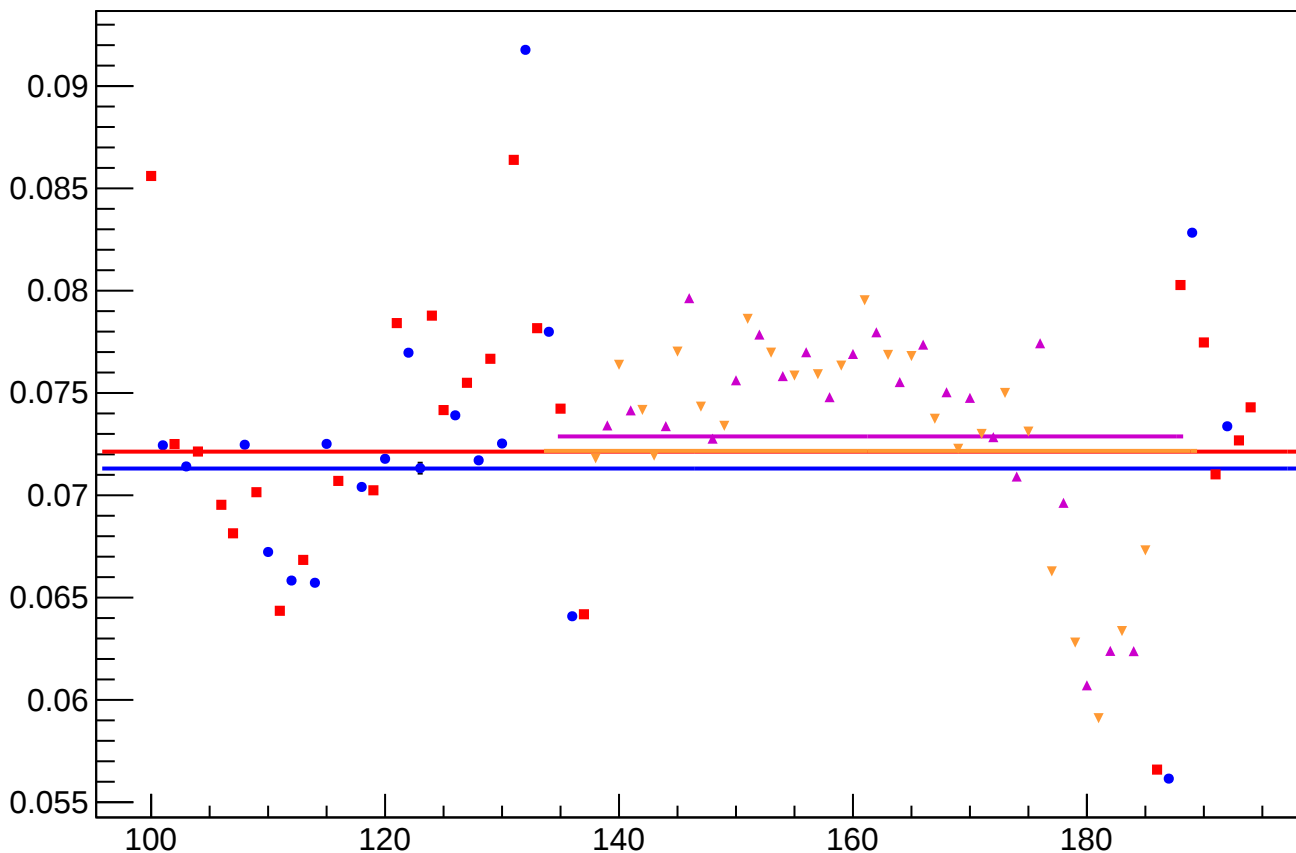
Right: -1.756 $\pm$ 0.000 χ^2 /NDF: 5386417240.1/44

In: -1.311 $\pm$ 0.000 χ^2 /NDF: 8454889007.5/42

Out: -1.451 $\pm$ 0.000 χ^2 /NDF: 10123870133.7/49

All: -1.385 $\pm$ 0.000 χ^2 /NDF: 18628865782.1/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071 $\pm$ 0.000 χ^2 /NDF: 117374.5/19

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 147241.9/24

Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

Left: 0.073 $\pm$ 0.000 χ^2 /NDF: 407423.5/47

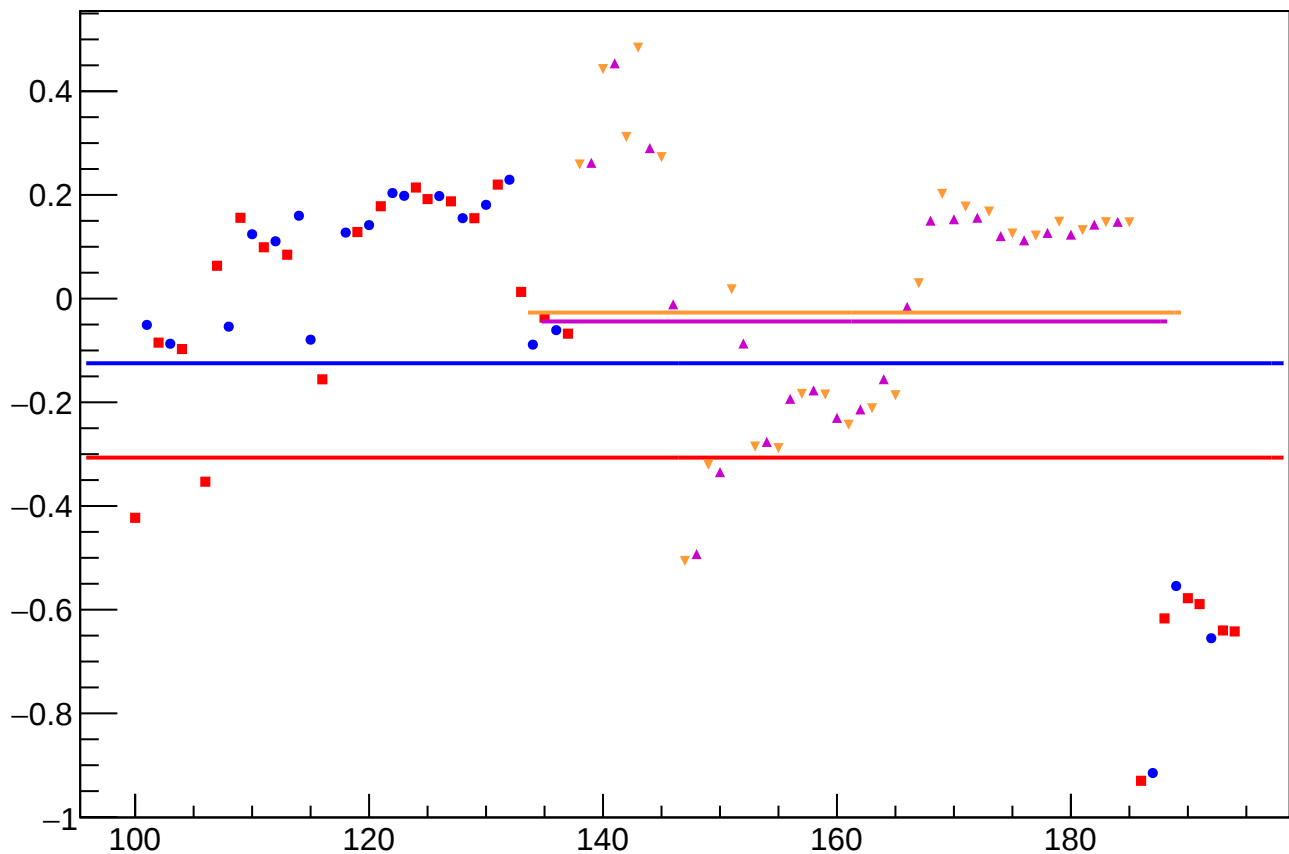
Right: 0.072 $\pm$ 0.000 χ^2 /NDF: 265815.6/44

In: 0.072 $\pm$ 0.000 χ^2 /NDF:306084.1/42

Out: 0.072 $\pm$ 0.000 χ^2 /NDF:369509.1/49

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 675796.5/92

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.125+/-0.000

χ^2/NDF : 5310012494.8/19

Left: -0.035+/-0.000

χ^2/NDF : 36148383394.4/47

Left Out: -0.027+/-0.000

χ^2/NDF : 20376761328.6/24

Right: -0.234+/-0.000

χ^2/NDF : 16441254402.5/44

Right Out: -0.307+/-0.000

χ^2/NDF : 10022787953.3/24

In: -0.055+/-0.000

χ^2/NDF : 21341631322.2/42

Out: -0.077+/-0.000

χ^2/NDF : 35738627946.2/49

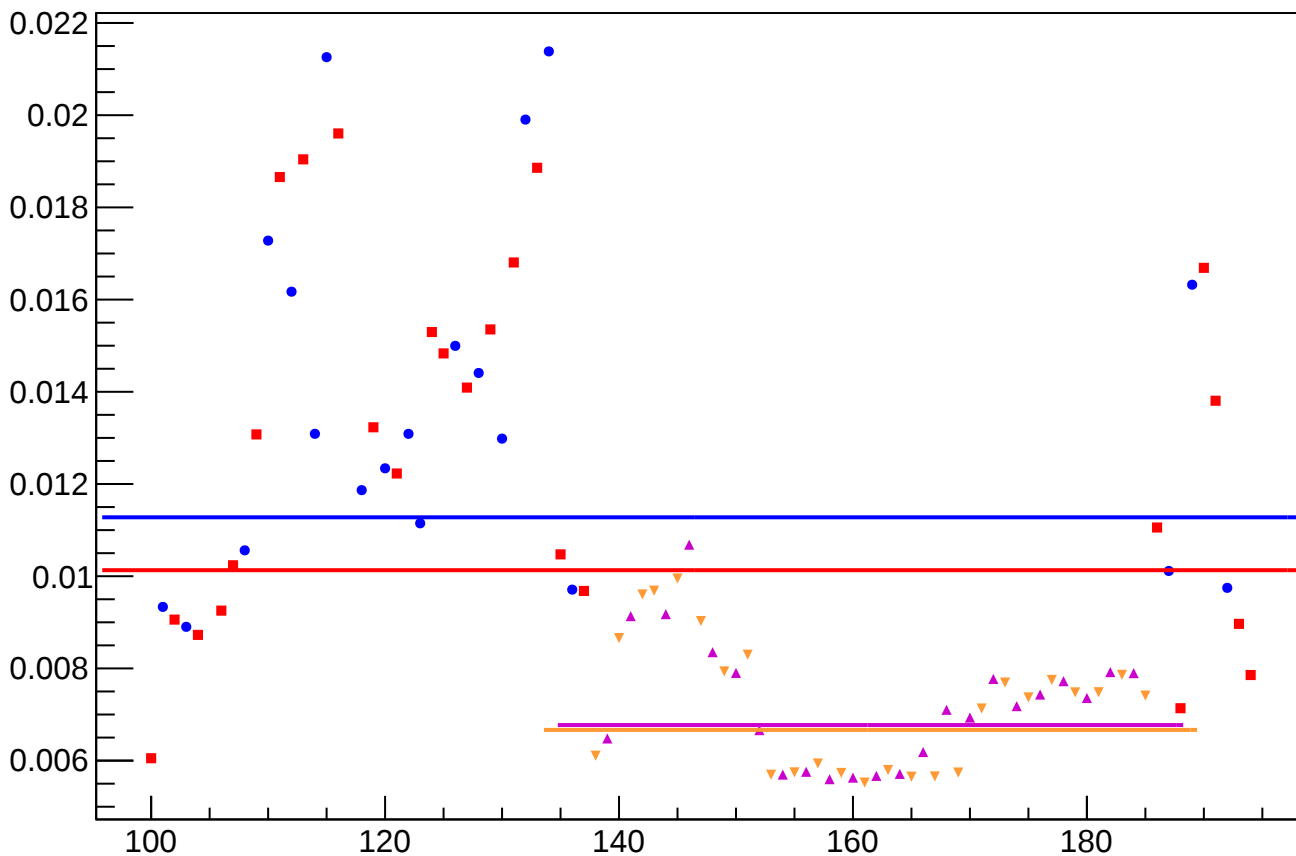
Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

All: -0.067+/-0.000

χ^2/NDF : 57184927043.4/47

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 807619.4/19

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1687829.9/24

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

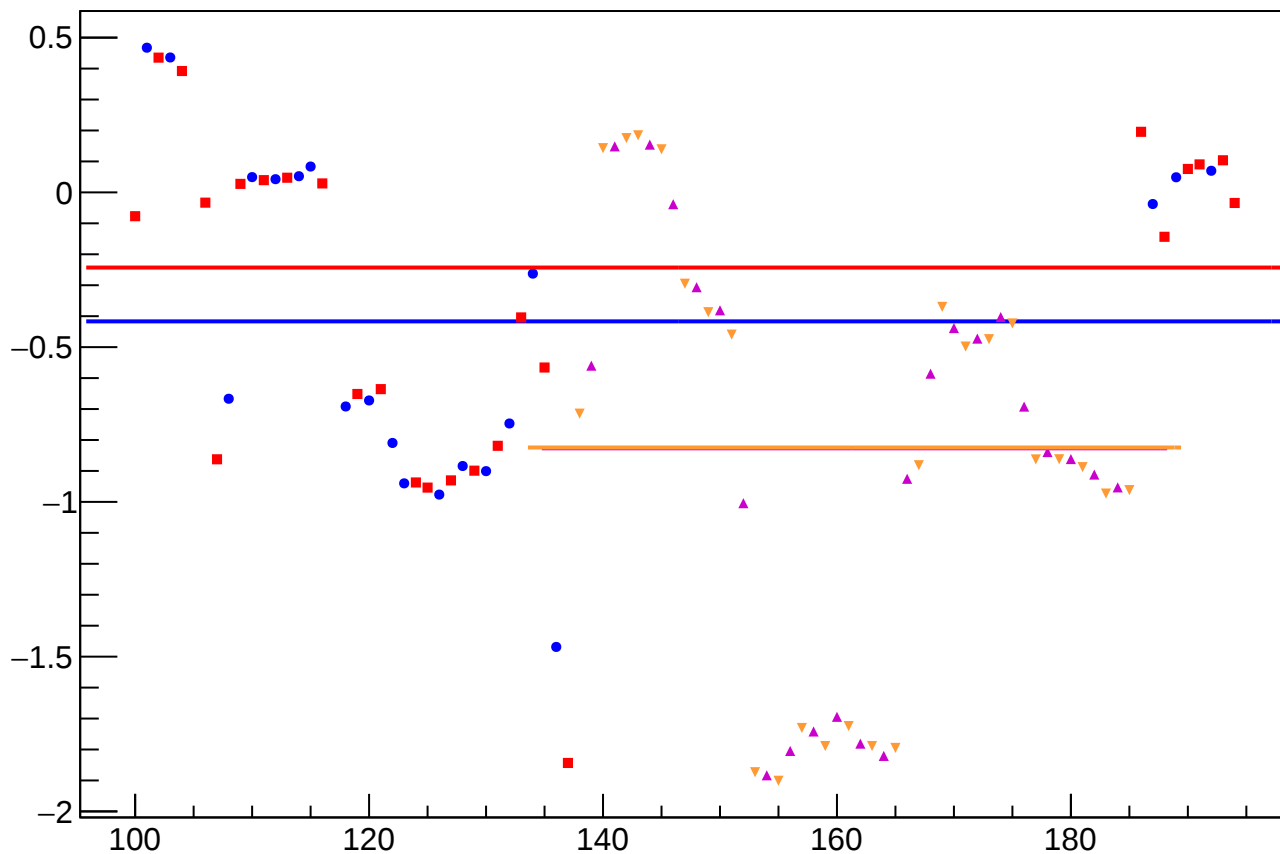
Right: 0.011+/-0.000 χ^2/NDF : 2583500.5/44

In: 0.007+/-0.000 χ^2/NDF :3697178.9/42

Out: 0.007+/-0.000 χ^2/NDF :4468957.5/49

All: 0.007+/-0.000 χ^2/NDF : 8171242.6/92

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 388652744.6/19

Left Out: -0.824+/-0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.243+/-0.000 χ^2/NDF : 324578420.6/24

Left In: -0.827+/-0.000 χ^2/NDF : 921651117.3/22

Left: -0.826+/-0.000 χ^2/NDF : 2025270716.0/47

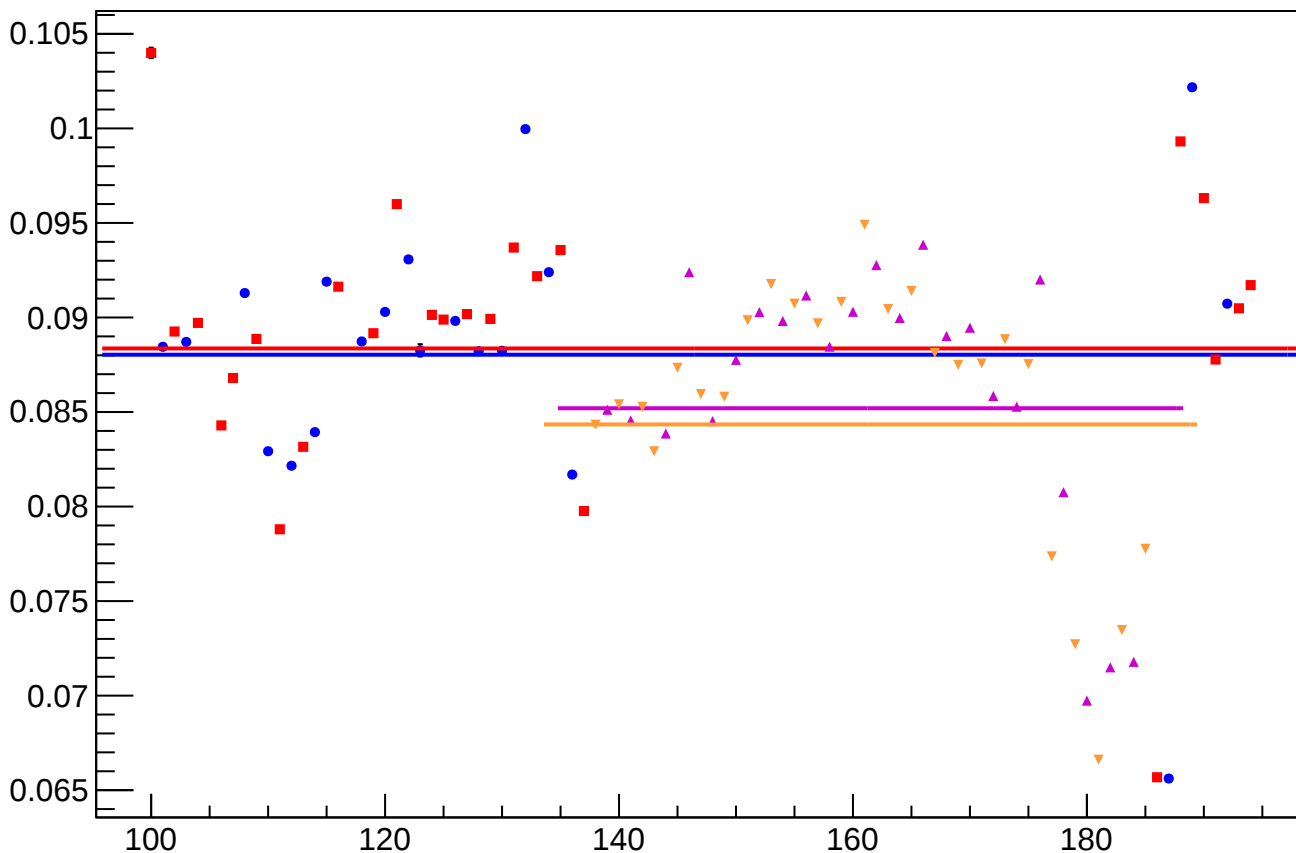
Right: -0.320+/-0.000 χ^2/NDF : 731056526.1/44

In: -0.700+/-0.000 χ^2/NDF : 1432865031.9/42

Out: -0.624+/-0.000 χ^2/NDF : 1724904350.3/49

All: -0.660+/-0.000 χ^2/NDF : 3168205309.1/9

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 89763.9/19

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.088 $\pm$ 0.000 χ^2 /NDF: 158947.0/24

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

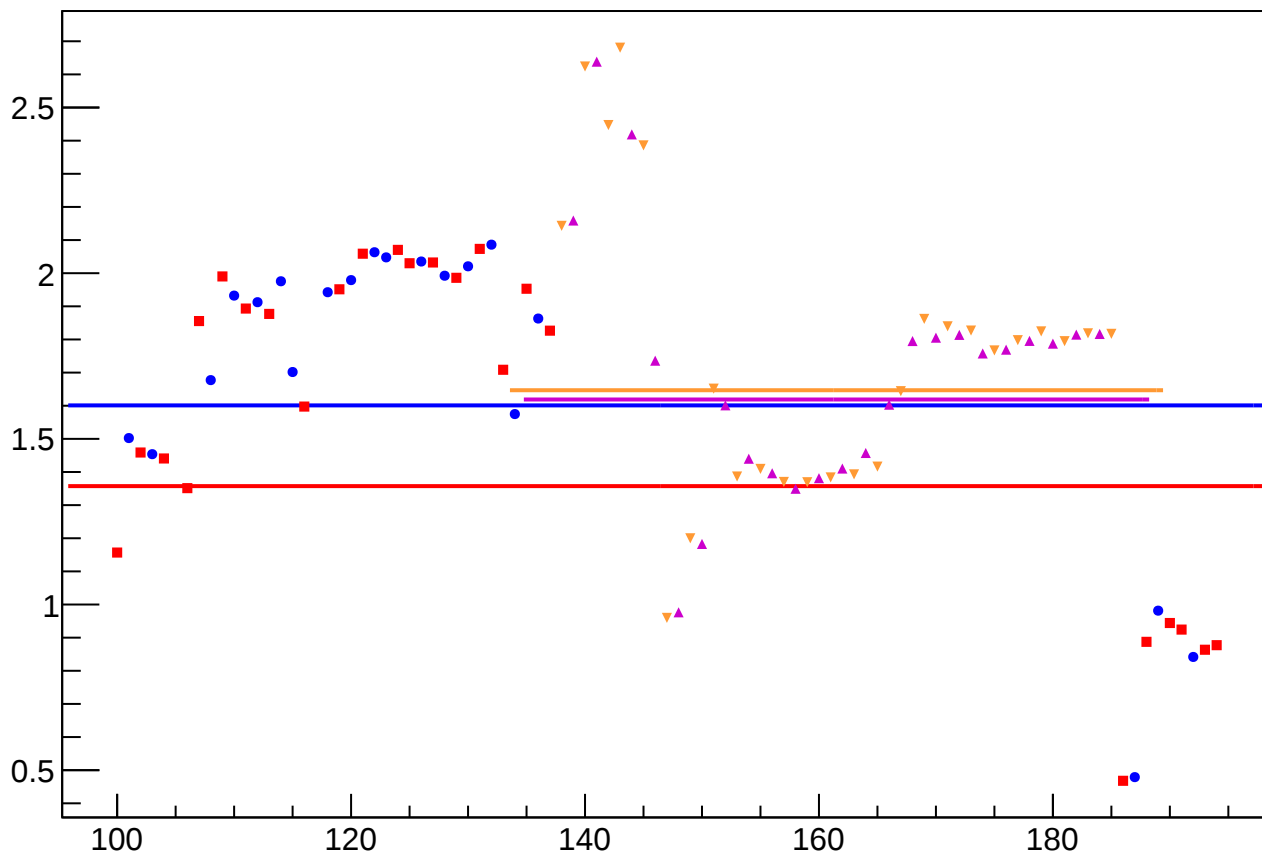
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 248839.6/44

In: 0.086 $\pm$ 0.000 χ^2 /NDF:339758.2/42

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:475612.6/49

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 815817.6/92

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.601 $\pm$ 0.000 χ^2 /NDF: 6443673996.8/19

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.357 $\pm$ 0.000 χ^2 /NDF: 11157737891.2/24

Left In: 1.619 $\pm$ 0.000 χ^2 /NDF: 20618198188.1/22

Left: 1.633 $\pm$ 0.000 χ^2 /NDF: 47231460201.8/47

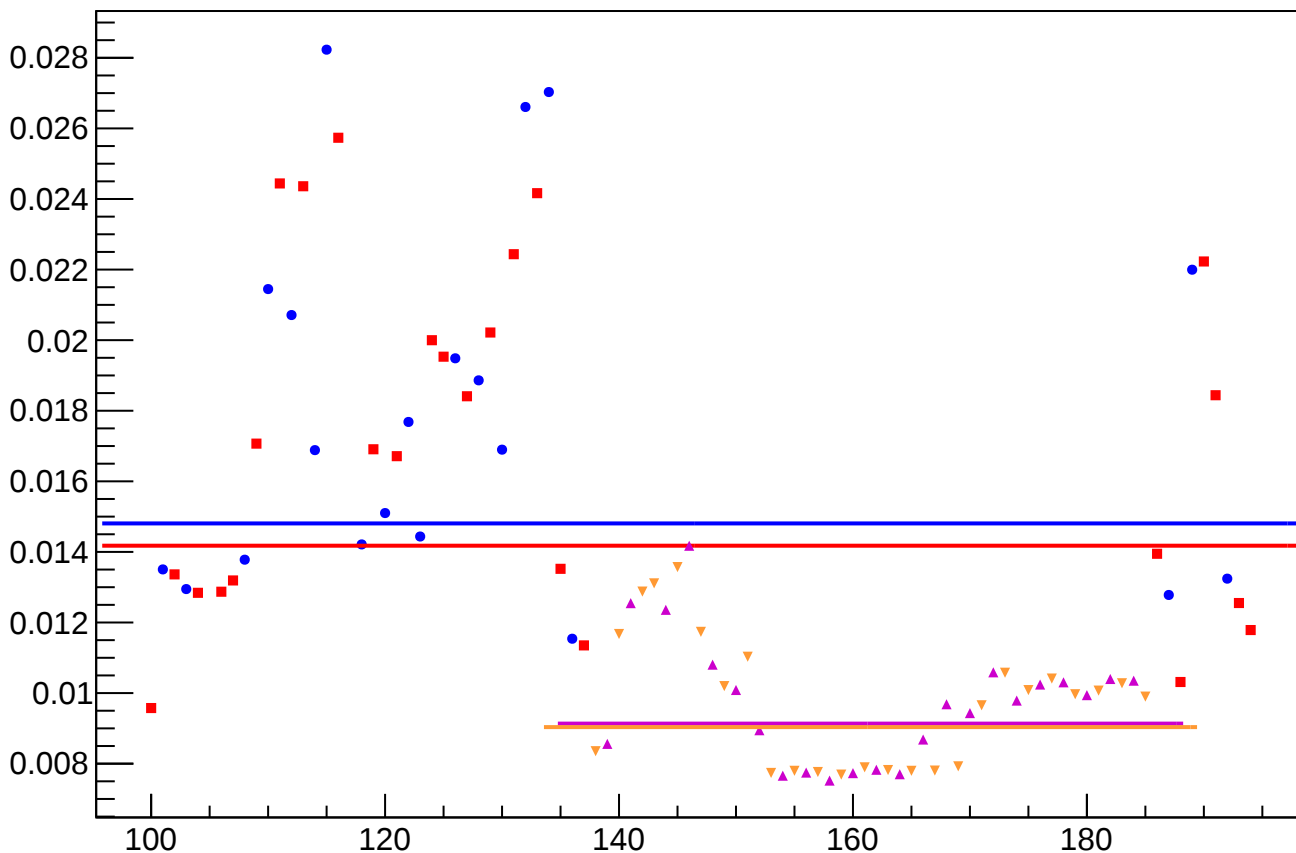
Right: 1.461 $\pm$ 0.000 χ^2 /NDF: 18707279307.7/44

In: 1.616 $\pm$ 0.000 χ^2 /NDF: 27070685175.2/42

Out: 1.597 $\pm$ 0.000 χ^2 /NDF: 40718683958.1/49

All: 1.606 $\pm$ 0.000 χ^2 /NDF: 67835231560.9/99

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 765073.1/19

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.014+/-0.000 χ^2/NDF : 1286276.8/24

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

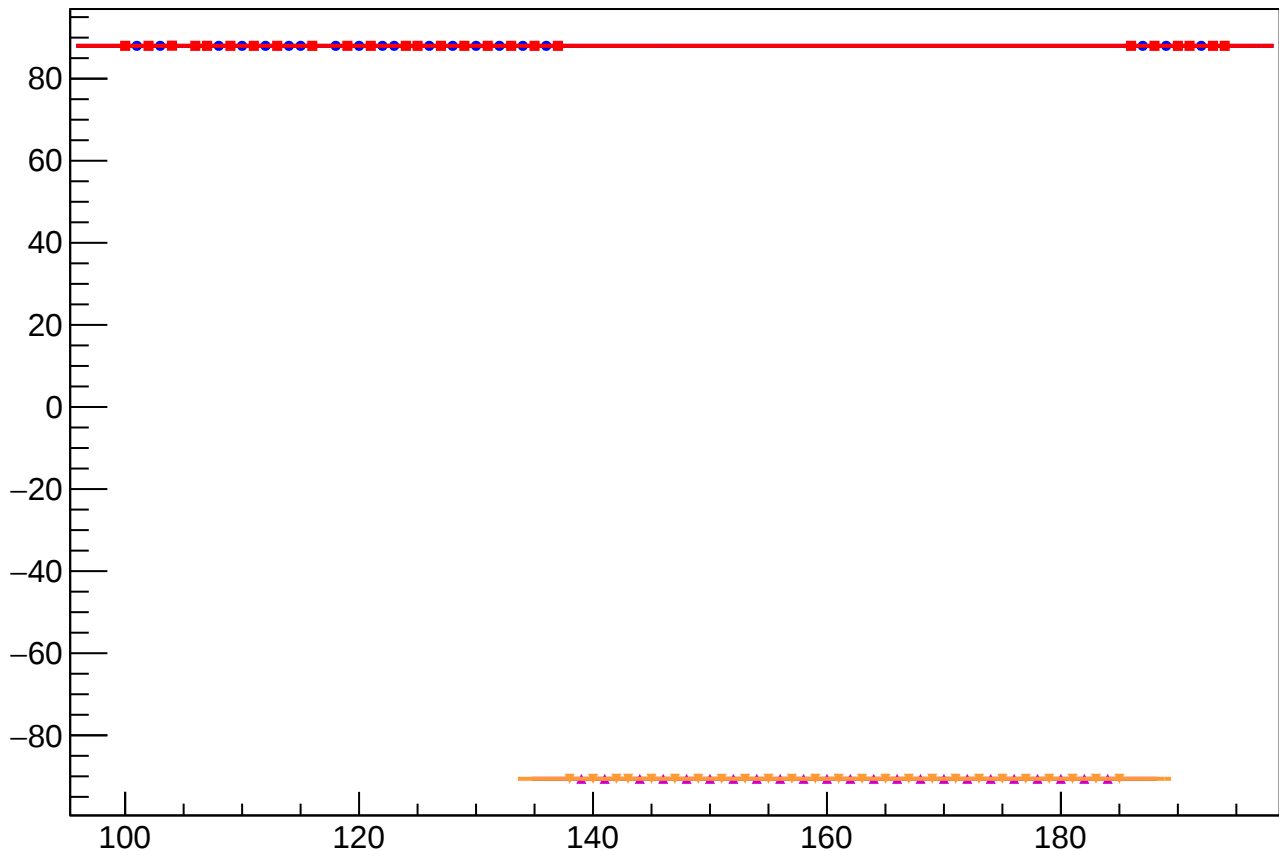
Right: 0.014+/-0.000 χ^2/NDF : 2066194.2/44

In: 0.010+/-0.000 χ^2/NDF :3430025.0/42

Out: 0.010+/-0.000 χ^2/NDF :4237919.6/49

All: 0.010+/-0.000 χ^2/NDF : 7668152.2/92

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 2372893.6/19

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.003+/-0.000 χ^2/NDF : 79492317946045126833764040704.0/24

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

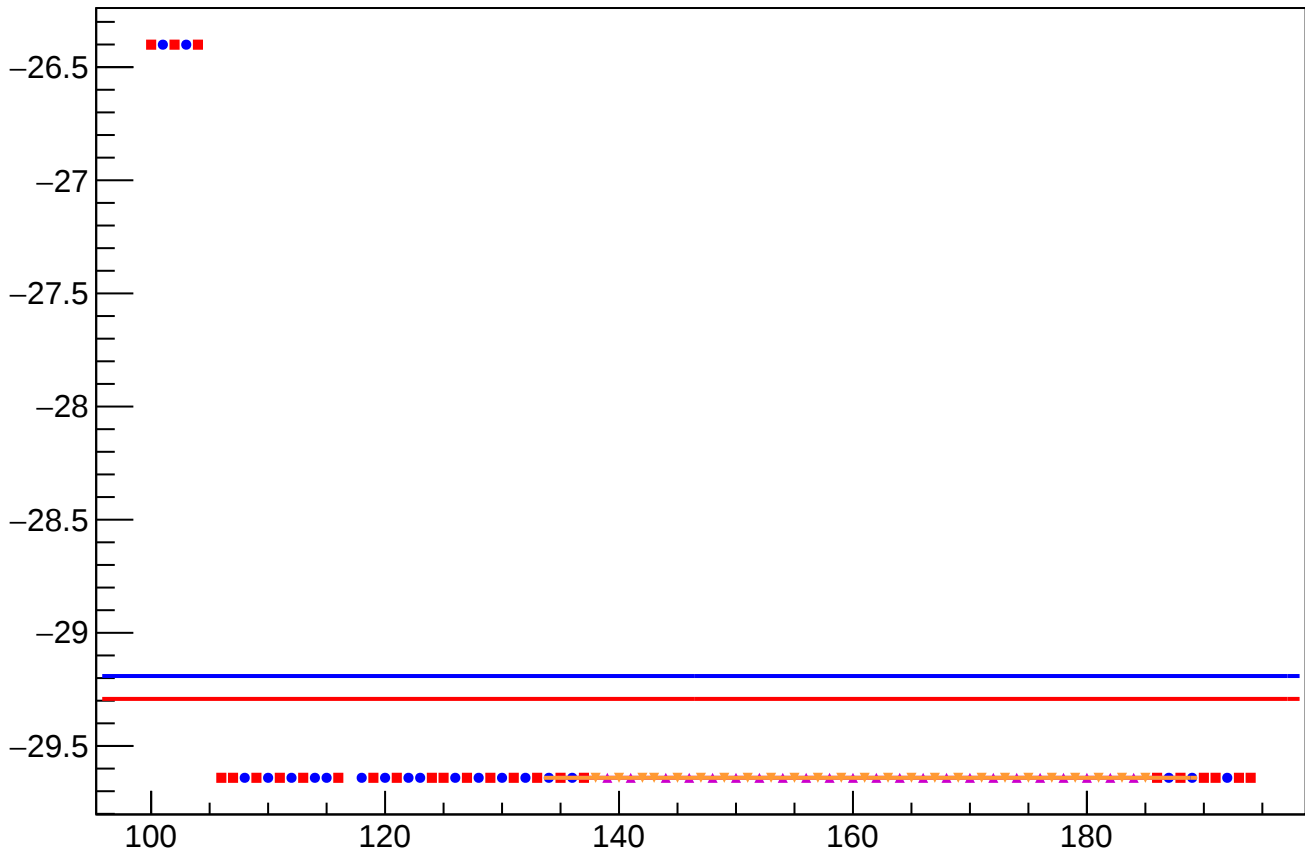
Right: 88.002+/-0.000 χ^2/NDF : 8123266871542287

In: -33.226+/-0.000 χ^2/NDF : 18403411086923635

Out: -26.056+/-0.000 χ^2/NDF : 2196001865029722

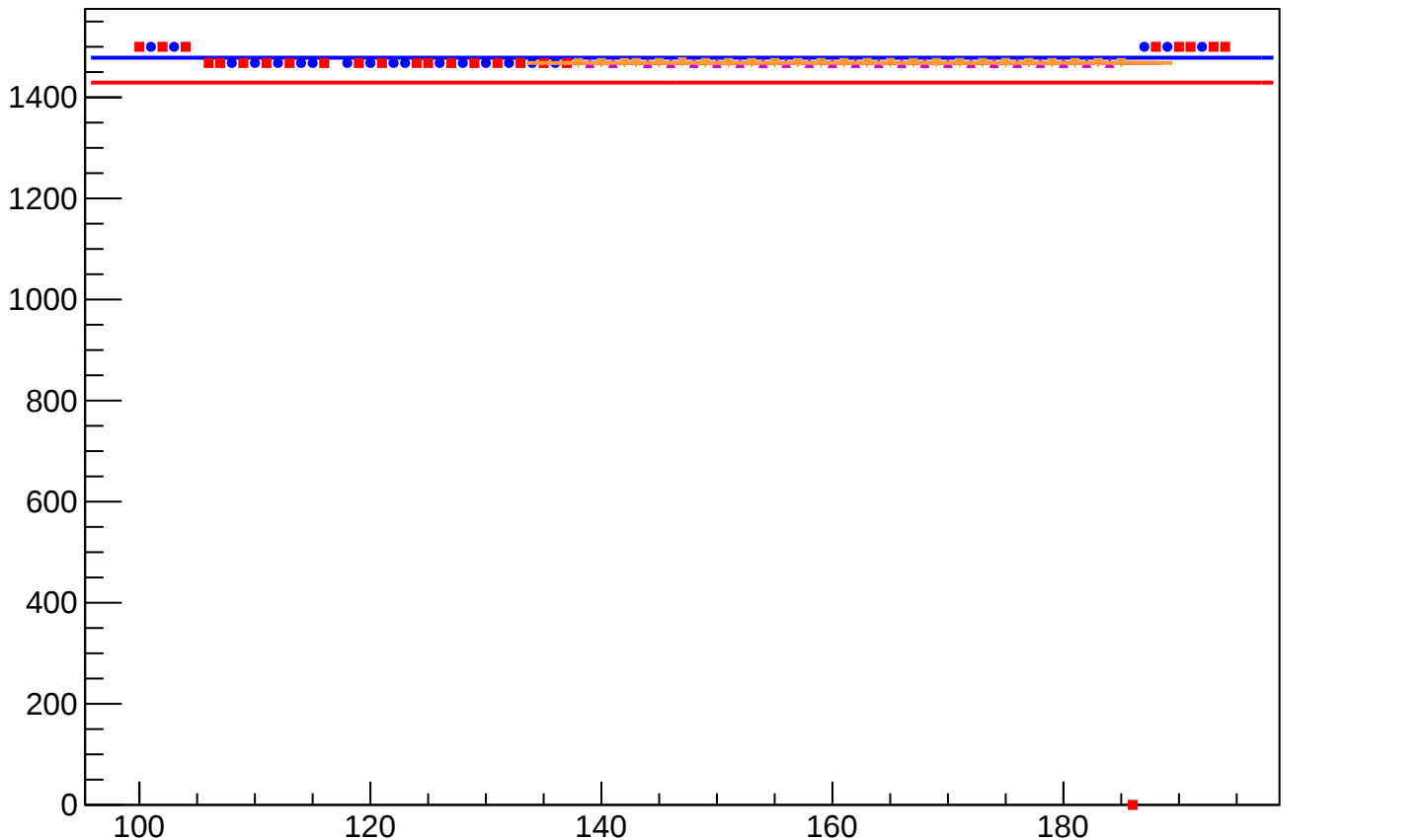
All: -29.426+/-0.000 χ^2/NDF : 404355150642

epics_HWienAngles_mean vs Slug, Sign Corrected



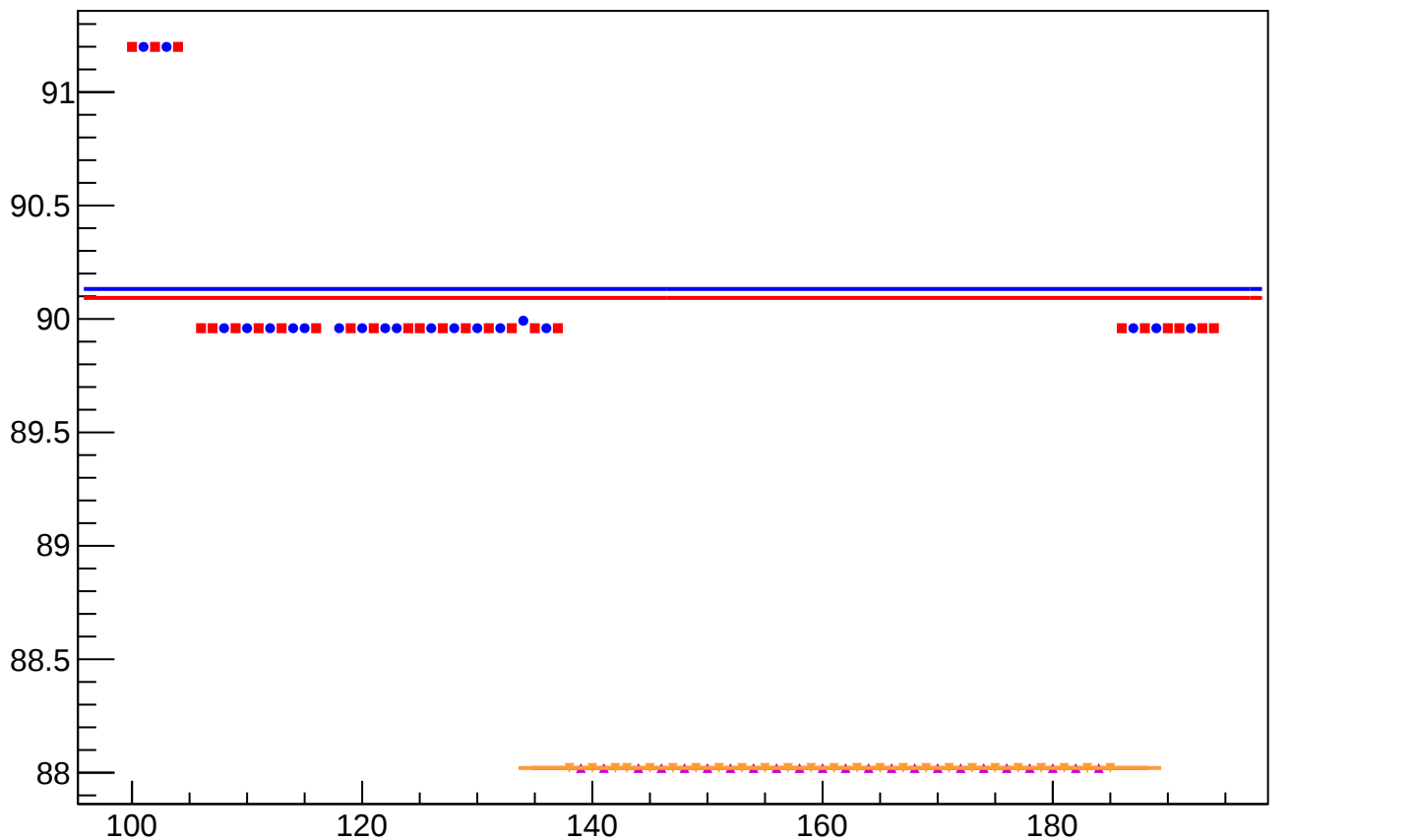
Right In: -29.191+/-0.000 χ^2/NDF : 1066753761882362033178054492160000.0/19
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.292+/-0.000 χ^2/NDF : 1086686622634506947920376658657280.0/24
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.496+/-0.000 χ^2/NDF : 11834754612244765
 Out: -29.515+/-0.000 χ^2/NDF : 1170368027891359
 All: -29.506+/-0.000 χ^2/NDF : 235432317782

epics_psub_pl_pos_mean vs Slug, Sign Corrected



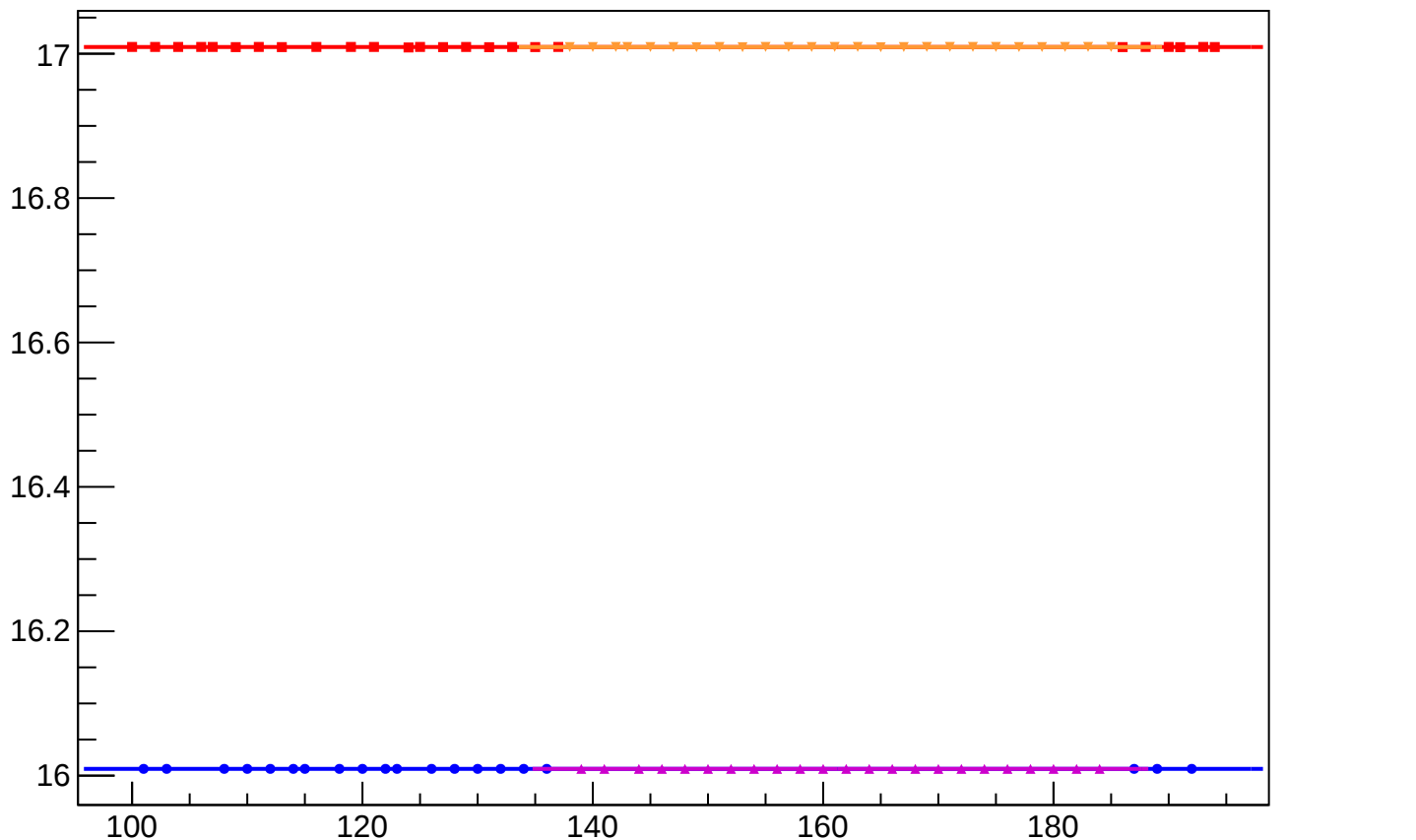
Right In: 1478.415+/-0.000	χ^2/NDF : 191468028823888560735456011933974528.0/19	Left: 1468.022+/-0.000	χ^2/NDF : 130807817753460
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1450.888+/-0.000	χ^2/NDF : 82055467213675
Right Out: 1429.184+/-0.000	χ^2/NDF : 80712131840734480315290584516411785216.0/24	In: 1471.341+/-0.000	χ^2/NDF : 2541204315847077
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1454.003+/-0.000	χ^2/NDF : 817520777491194
	All: 1462.153+/-0.000	χ^2/NDF : 82427716563	

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.132+/-0.000 χ^2/NDF : 156032531019081029898158829731840.0/19
 Left Out: 88.021+/-0.000 χ^2/NDF : 5679798.5/24
 Right Out: 90.093+/-0.000 χ^2/NDF : 159168700556621680921199679373312.0/24
 Left In: 88.021+/-0.000 χ^2/NDF : 6257169.0/22
 Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47
 Right: 90.110+/-0.000 χ^2/NDF : 3159437089472396
 In: 88.699+/-0.000 χ^2/NDF : 27284339881543698
 Out: 88.769+/-0.000 χ^2/NDF : 31148043915748099
 All: 88.736+/-0.000 χ^2/NDF : 5850203191042

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 114063.0/19

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 15899459218024001683062784.0/24

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

Left: 16.524 $\pm$ 0.000 χ^2 /NDF: 85855870772921272

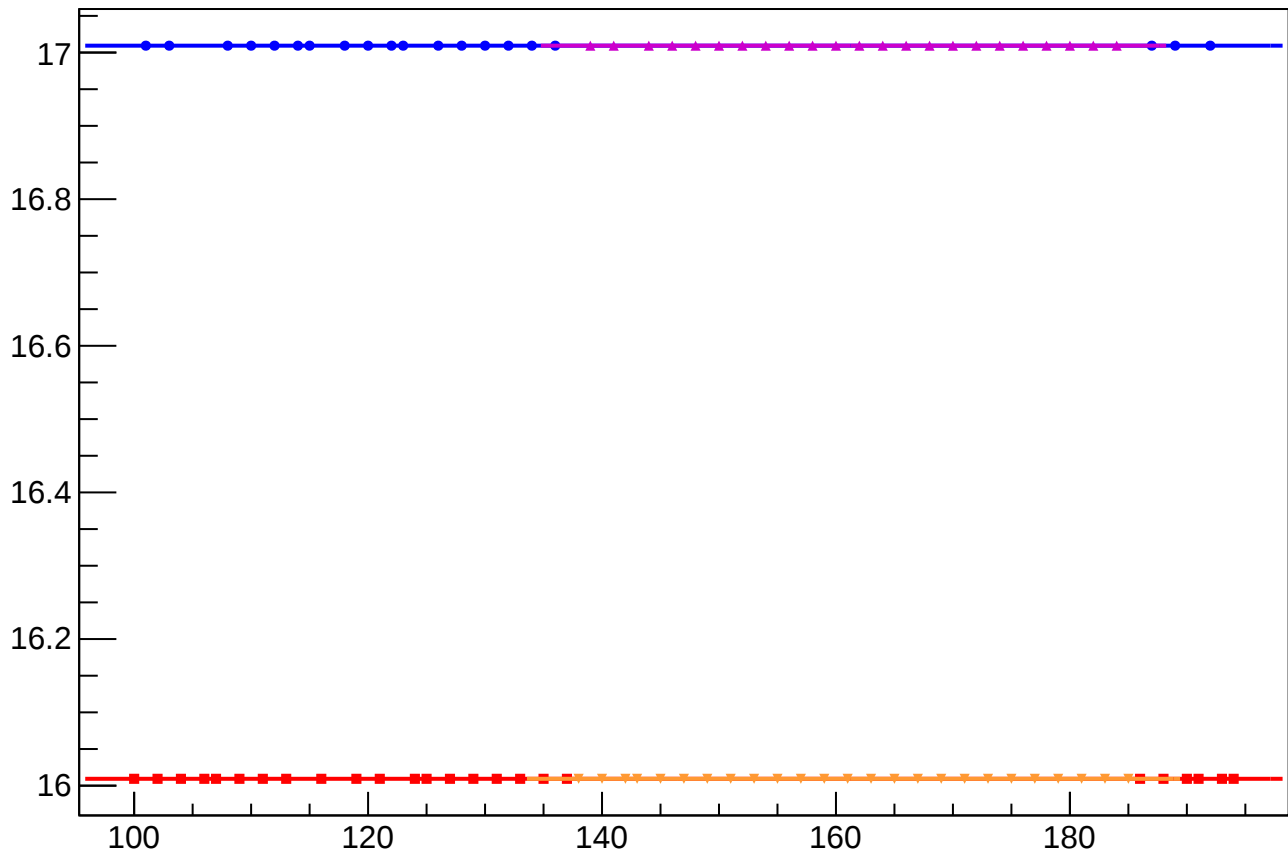
Right: 16.562 $\pm$ 0.000 χ^2 /NDF: 4520817065639642

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129847436746439134

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 42479391986873006

All: 16.537 $\pm$ 0.000 χ^2 /NDF: 1312358661023

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 198868.7/19

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 216842.1/24

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114986101427233622065152.0/22

Left: 16.491 $\pm$ 0.000 χ^2 /NDF: 90683349233974458

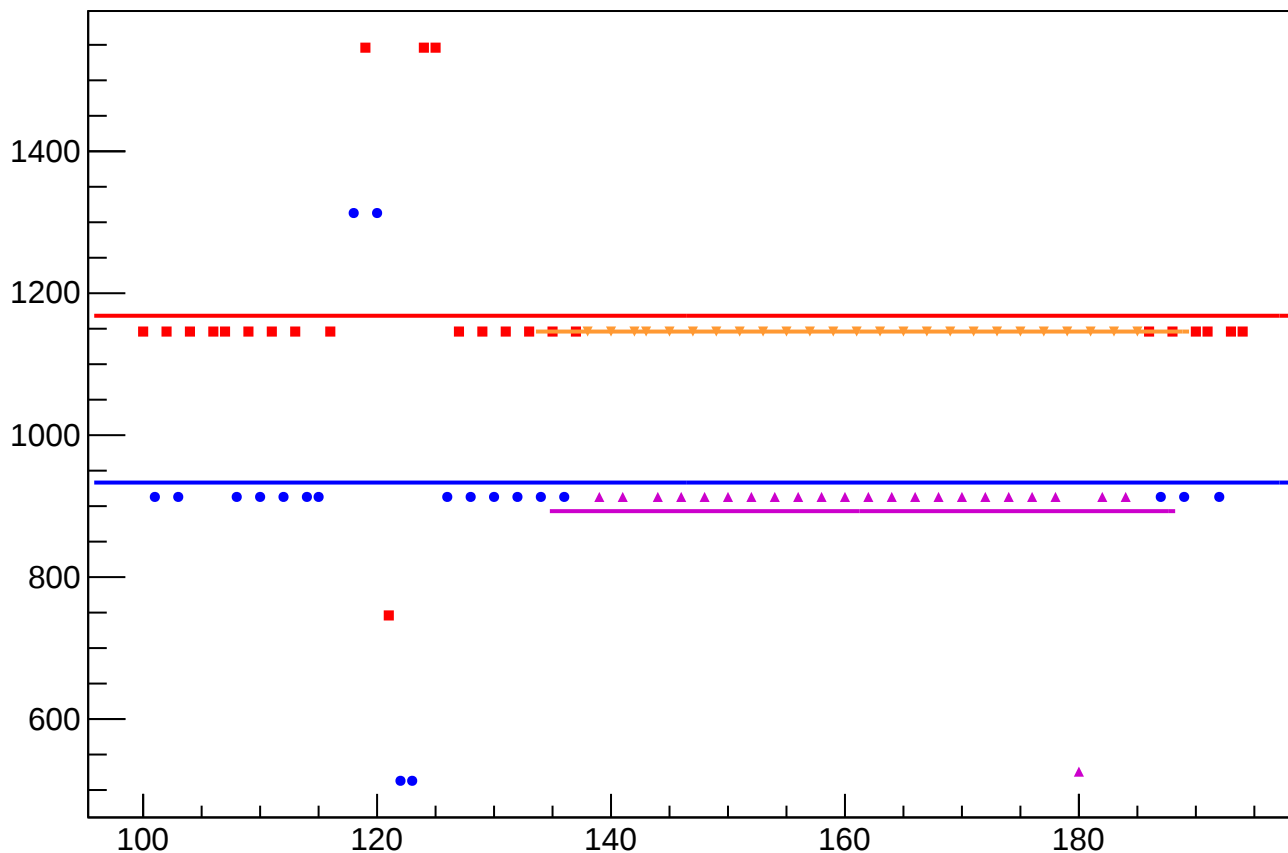
Right: 16.442 $\pm$ 0.000 χ^2 /NDF: 4637787188988715

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116761938446911377

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 707690.3/49

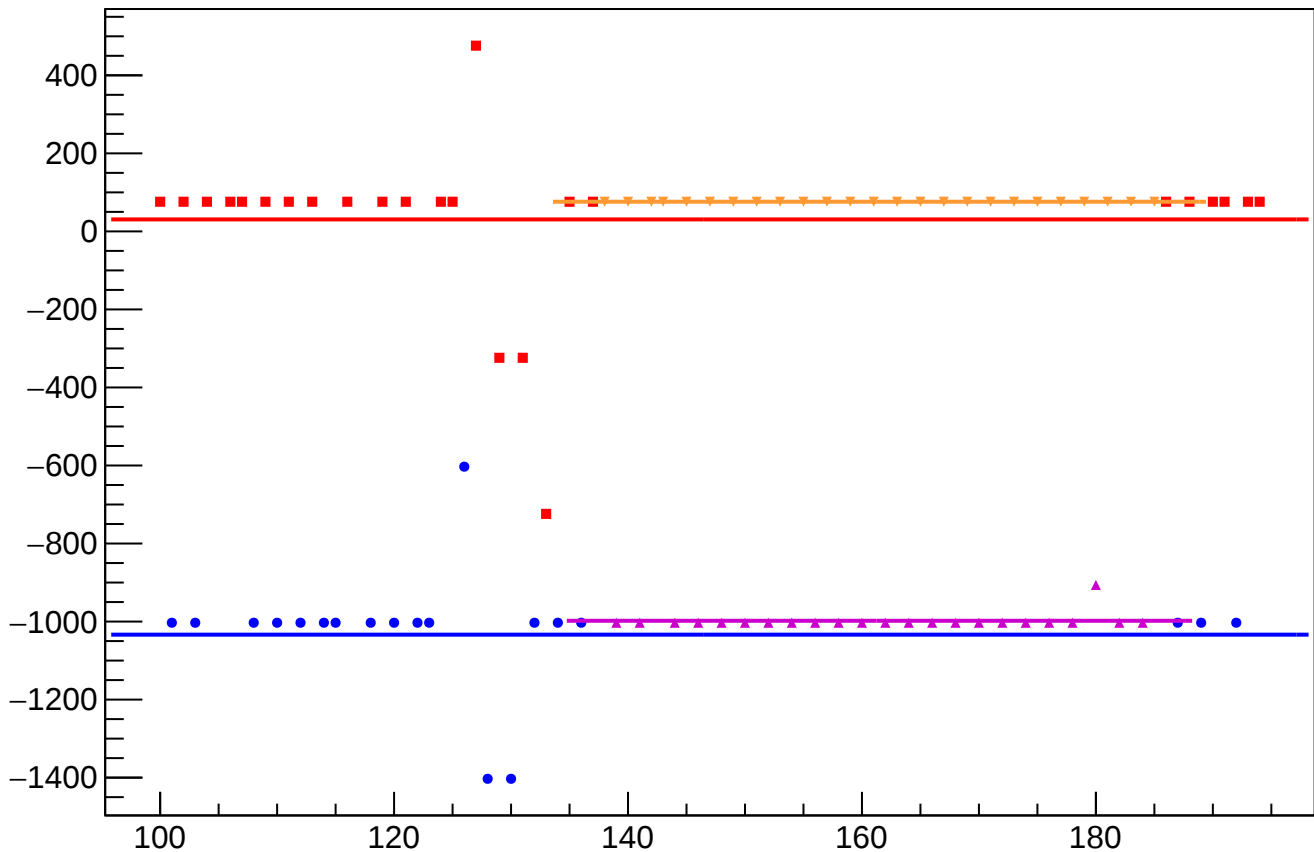
All: 16.475 $\pm$ 0.000 χ^2 /NDF: 1373604338100

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1023.207 $\pm$ 0.000 χ^2/NDF : 724152114185977
 Right: 1064.650 $\pm$ 0.000 χ^2/NDF : 68735569910936
 Right In: 933.230 $\pm$ 0.000 χ^2/NDF : 20933291733432367671964991969506099200.0/19
 Left Out: 1146.011 $\pm$ 0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1168.274 $\pm$ 0.000 χ^2/NDF : 21546371259977567888980527918453096448.0/24
 Out: 1154.056 $\pm$ 0.000 χ^2/NDF : 218875788982488
 Left In: 892.950 $\pm$ 0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1037.402 $\pm$ 0.000 χ^2/NDF : 14332794205

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1033.578+/-0.000 χ^2/NDF : 22404361345744756860287620110348189696.0/19
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: 30.741+/-0.000 χ^2/NDF : 44830581001748476320632974714700038144.0/24
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -442.880+/-0.000 χ^2/NDF : 16727863859