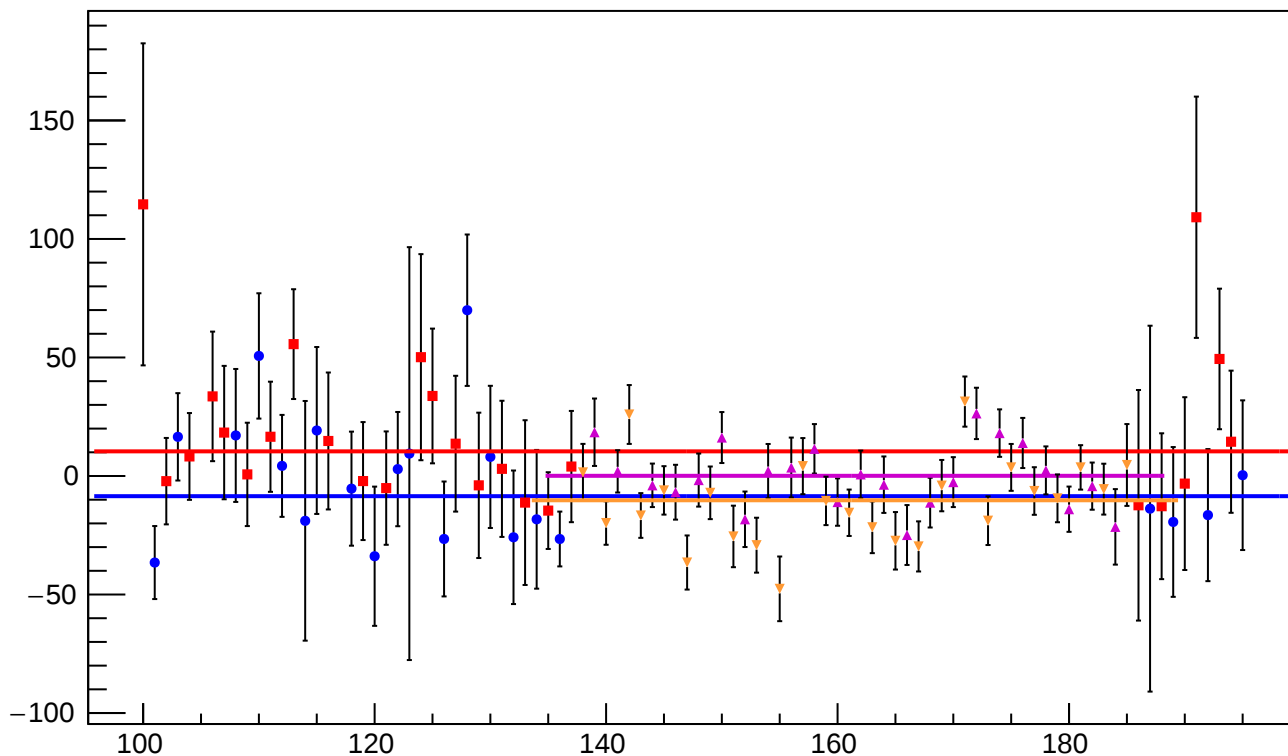


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.513 ± 5.335

$\chi^2/\text{NDF}: 23.1/20$

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: 1.028 ± 3.755

$\chi^2/\text{NDF}: 49.0/45$

In: -1.218 ± 2.074

$\chi^2/\text{NDF}: 55.2/43$

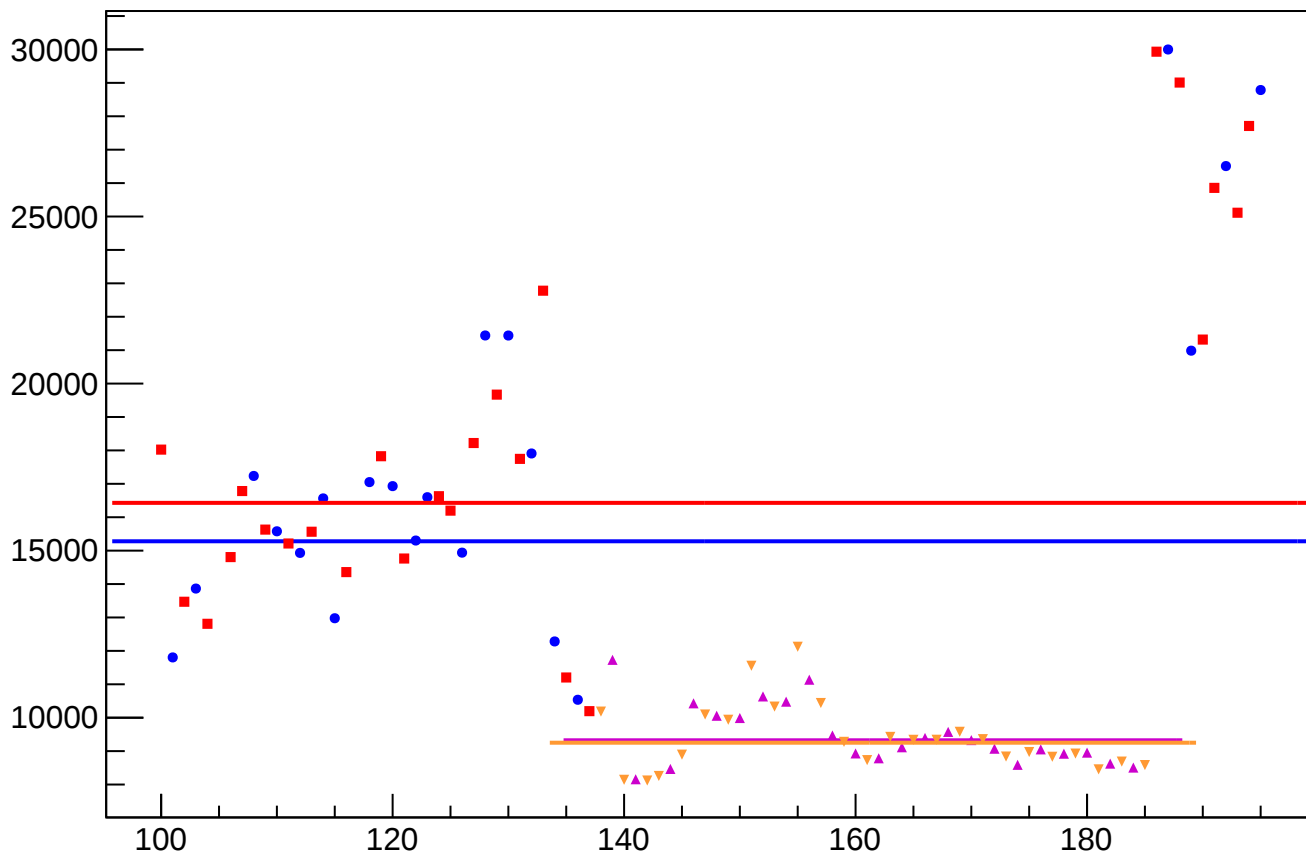
Out: -7.262 ± 2.008

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

All: -4.338 ± 1.442

$\chi^2/\text{NDF}: 150.3/93$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 15280.204 $\pm$ 3.773 χ^2 /NDF: 1514617.0/20

Left Out: 9251.811 $\pm$ 1.535 χ^2 /NDF:332323.3/24

Right Out: 16429.981 $\pm$ 3.738 χ^2 /NDF: 1675266.9/24

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

Left: 9286.587 $\pm$ 1.105 χ^2 /NDF: 609106.1/47

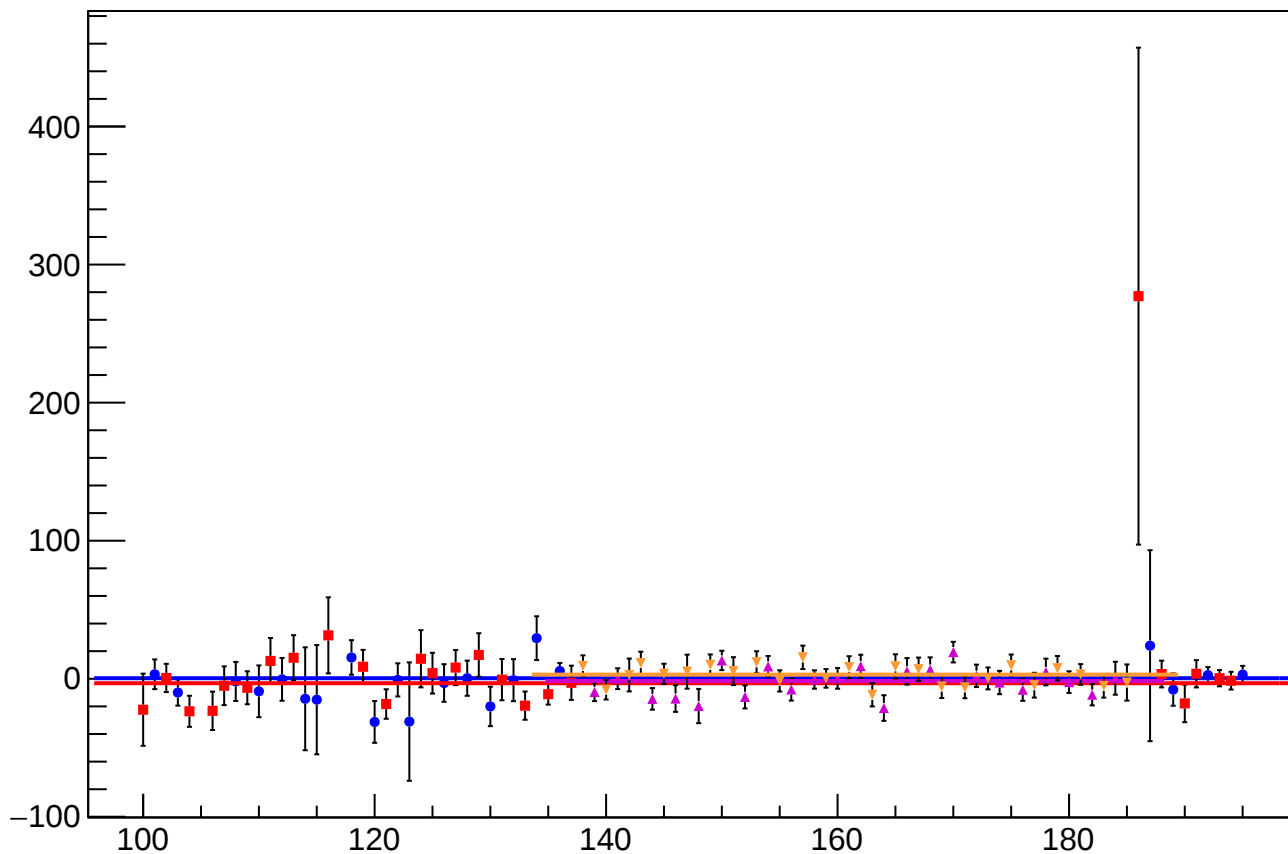
Right: 15860.414 $\pm$ 2.655 χ^2 /NDF: 3236752.6/45

In: 10223.651 $\pm$ 1.466 χ^2 /NDF:3906302.3/43

Out: 10287.138 $\pm$ 1.420 χ^2 /NDF:5163376.4/49

All: 10256.421 $\pm$ 1.020 χ^2 /NDF: 9070646.4/98

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.417 ± 2.441 $\chi^2/\text{NDF}: 15.4/20$

Left Out: 3.027 ± 1.661 $\chi^2/\text{NDF}: 18.6/24$

Right Out: -3.215 ± 2.264 $\chi^2/\text{NDF}: 25.0/24$

Left In: -1.588 ± 1.703 $\chi^2/\text{NDF}: 35.5/22$

Left: 0.777 ± 1.189 $\chi^2/\text{NDF}: 57.8/47$

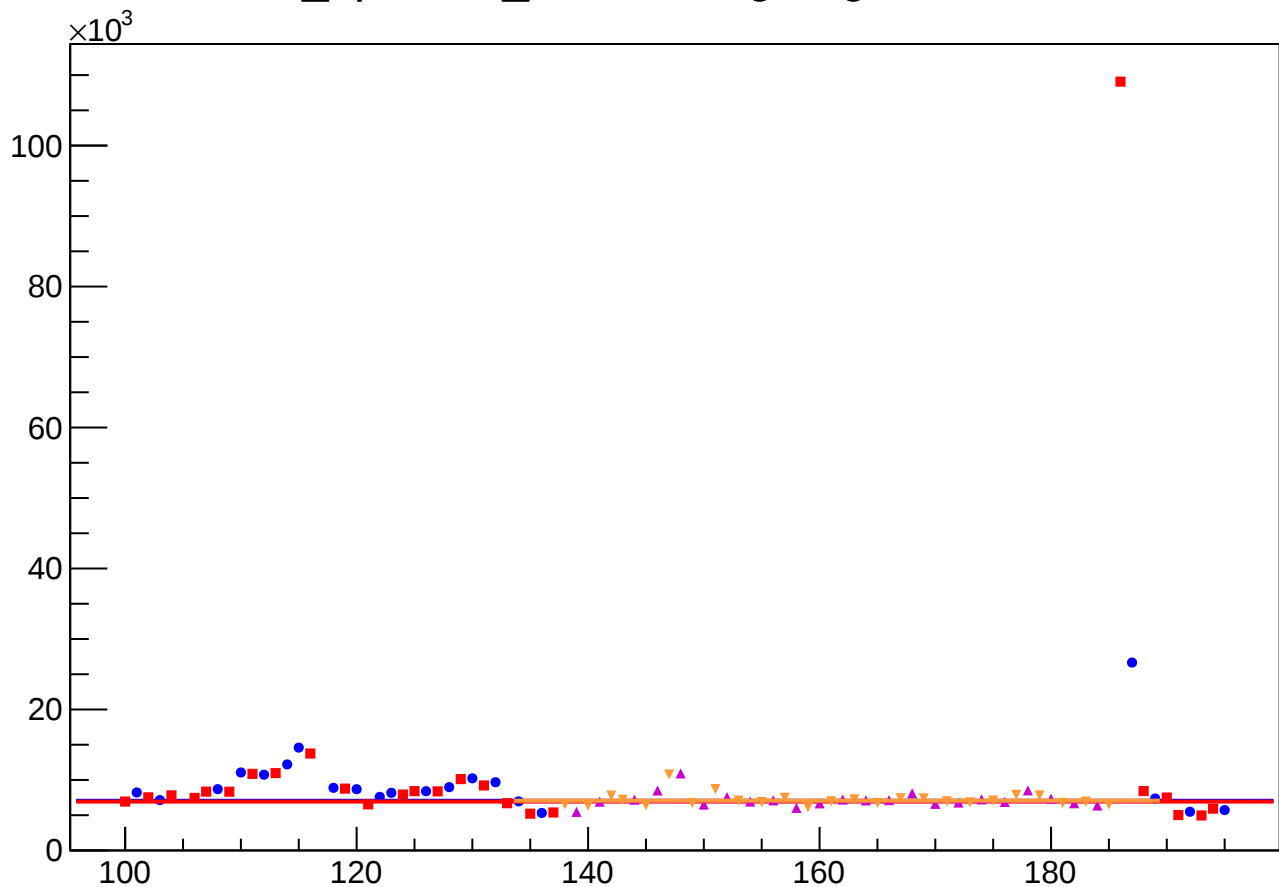
Right: -1.535 ± 1.660 $\chi^2/\text{NDF}: 41.6/45$

In: -0.932 ± 1.396 $\chi^2/\text{NDF}: 51.4/43$

Out: 0.844 ± 1.339 $\chi^2/\text{NDF}: 48.5/49$

All: -0.007 ± 0.967 $\chi^2/\text{NDF}: 100.7/93$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7049.355 $\pm$ 1.726 χ^2/NDF : 1234587.9/20

Left Out: 7064.457 $\pm$ 1.174 χ^2/NDF : 386814.9/24

Right Out: 6932.453 $\pm$ 1.601 χ^2/NDF : 1832279.8/24

Left In: 7014.572 $\pm$ 1.204 χ^2/NDF : 525313.7/22

Left: 7040.137 $\pm$ 0.841 χ^2/NDF : 913008.5/47

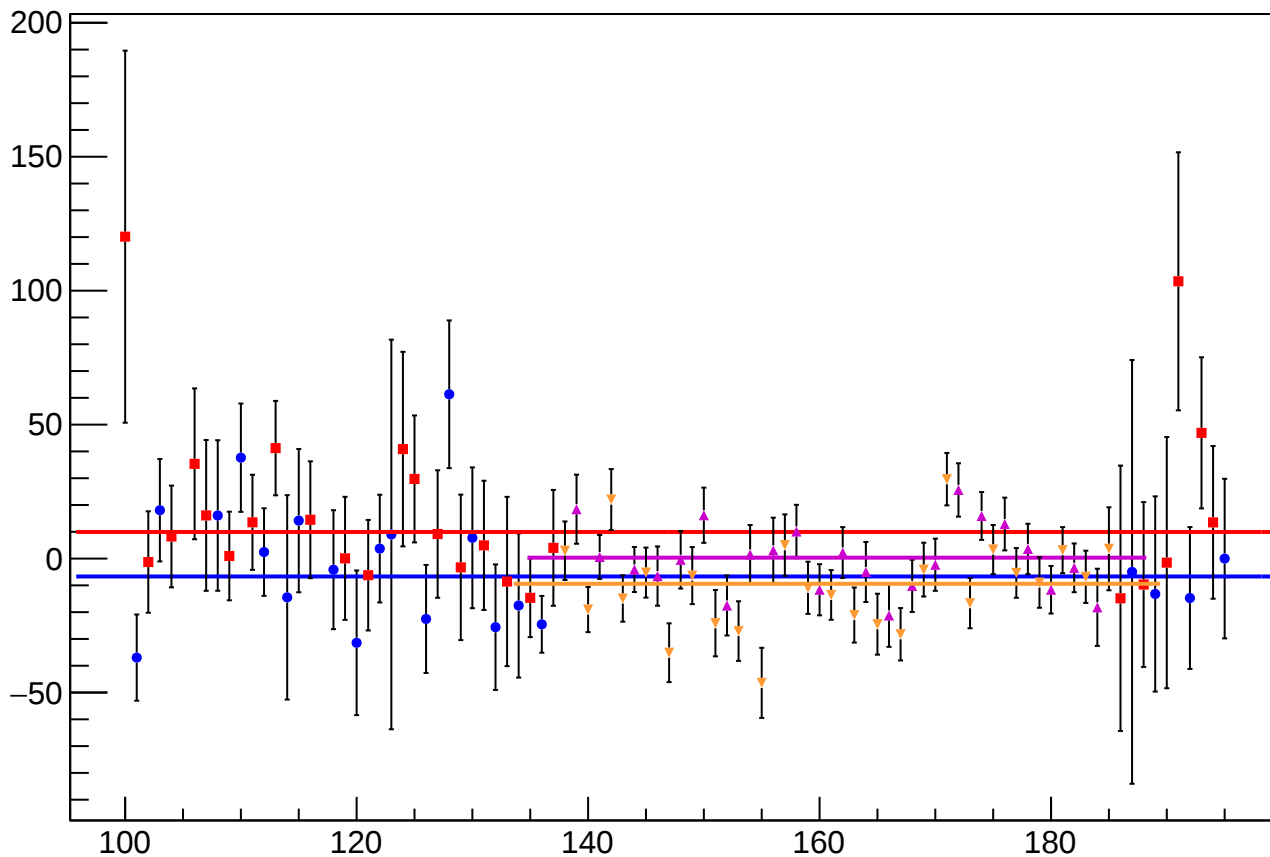
Right: 6986.526 $\pm$ 1.174 χ^2/NDF : 3069333.5/45

In: 7025.957 $\pm$ 0.987 χ^2/NDF : 1760174.8/43

Out: 7018.291 $\pm$ 0.947 χ^2/NDF : 2223514.7/49

All: 7021.964 $\pm$ 0.683 χ^2/NDF : 3983720.8/93

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.680 ± 4.822 $\chi^2/\text{NDF}: 23.7/20$

Left Out: -9.411 ± 2.021 $\chi^2/\text{NDF}: 58.8/24$

Right Out: 9.933 ± 4.730 $\chi^2/\text{NDF}: 19.2/24$

Left In: 0.344 ± 2.100 $\chi^2/\text{NDF}: 29.9/22$

Left: -4.722 ± 1.456 $\chi^2/\text{NDF}: 99.9/47$

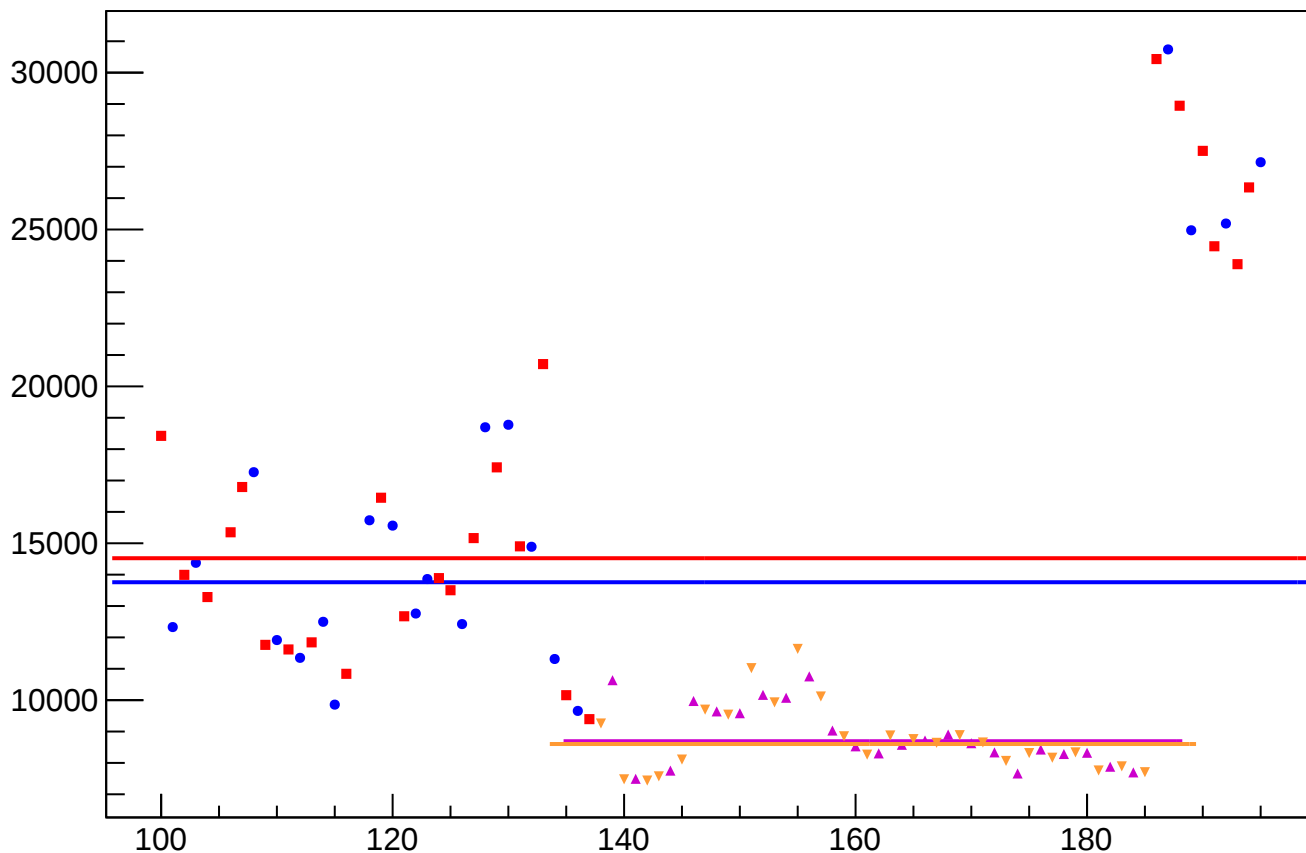
Right: 1.786 ± 3.377 $\chi^2/\text{NDF}: 48.9/45$

In: -0.777 ± 1.926 $\chi^2/\text{NDF}: 55.4/43$

Out: -6.425 ± 1.858 $\chi^2/\text{NDF}: 92.1/49$

All: -3.701 ± 1.337 $\chi^2/\text{NDF}: 152.0/93$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 13758.140 $\pm$ 3.409 χ^2 /NDF: 1708950.1/20

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

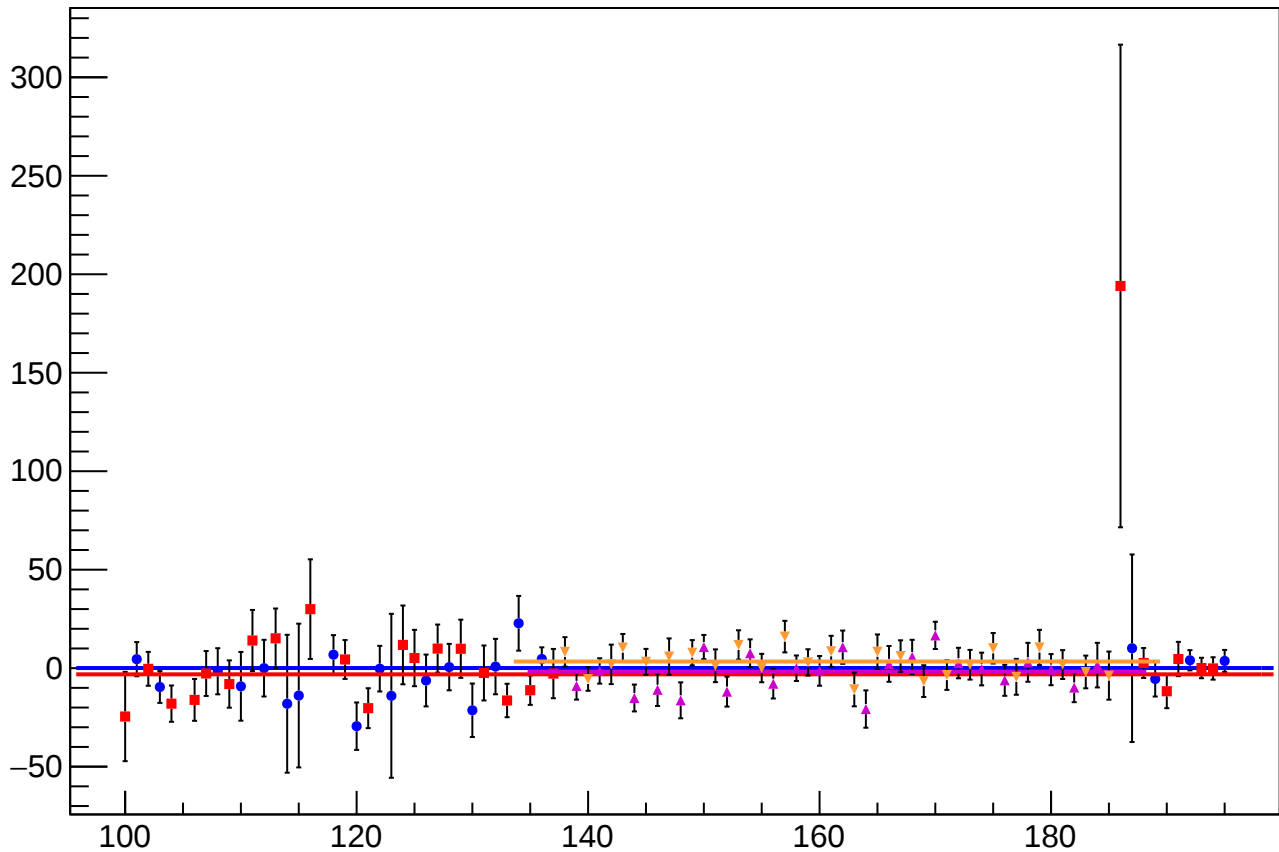
Right: 14148.241 $\pm$ 2.388 χ^2 /NDF: 3852911.3/45

In: 9499.438 $\pm$ 1.362 χ^2 /NDF:3930596.4/43

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

All: 9508.210 $\pm$ 0.946 χ^2 /NDF: 9138378.0/93

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.071 ± 2.178 $\chi^2/\text{NDF}: 16.5/20$

Left Out: 3.374 ± 1.552 $\chi^2/\text{NDF}: 17.2/24$

Right Out: -3.127 ± 1.979 $\chi^2/\text{NDF}: 25.2/24$

Left In: -1.756 ± 1.607 $\chi^2/\text{NDF}: 33.5/22$

Left: 0.899 ± 1.116 $\chi^2/\text{NDF}: 56.0/47$

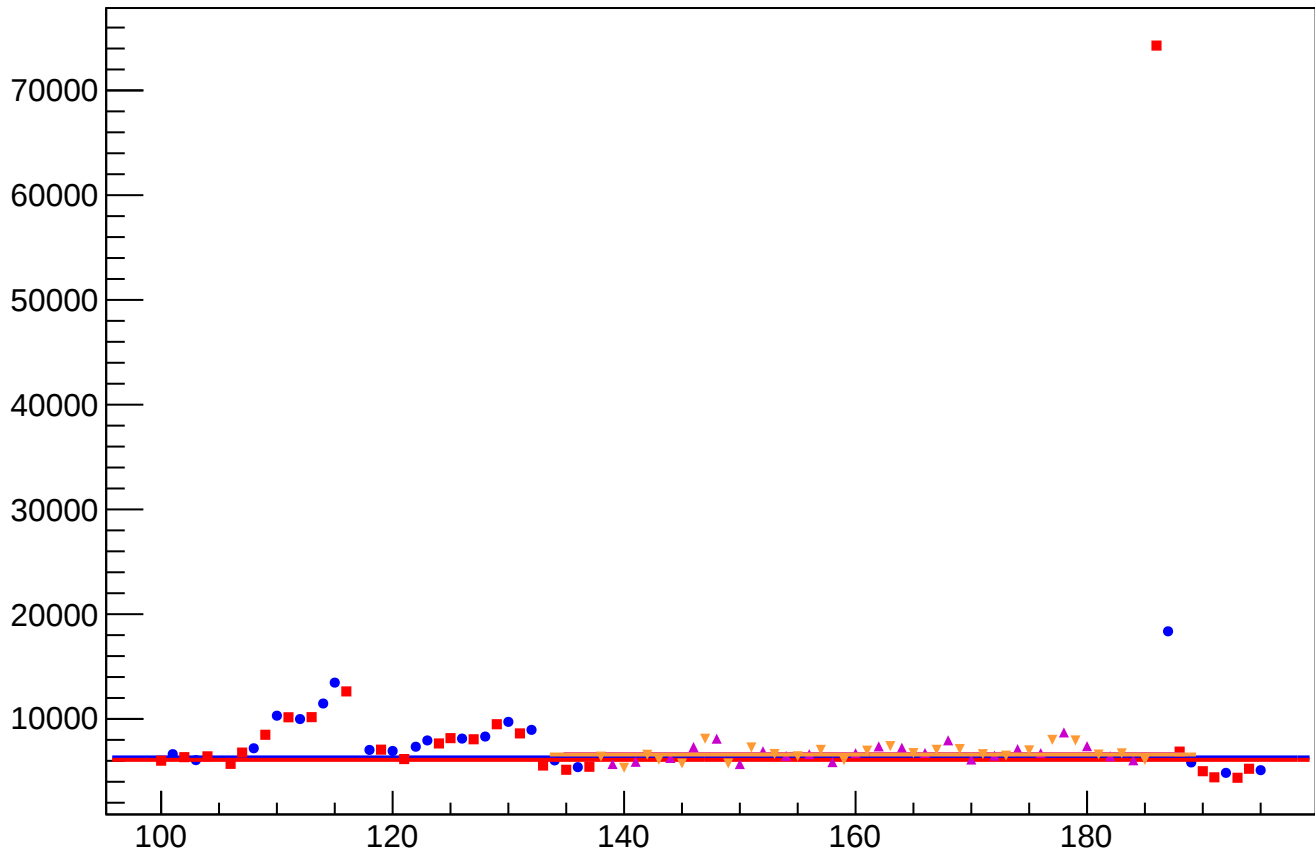
Right: -1.681 ± 1.465 $\chi^2/\text{NDF}: 42.8/45$

In: -1.112 ± 1.293 $\chi^2/\text{NDF}: 50.4/43$

Out: 0.900 ± 1.221 $\chi^2/\text{NDF}: 49.0/49$

All: -0.049 ± 0.888 $\chi^2/\text{NDF}: 100.8/93$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6325.242 $\pm$ 1.540 χ^2/NDF : 1135657.7/20

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

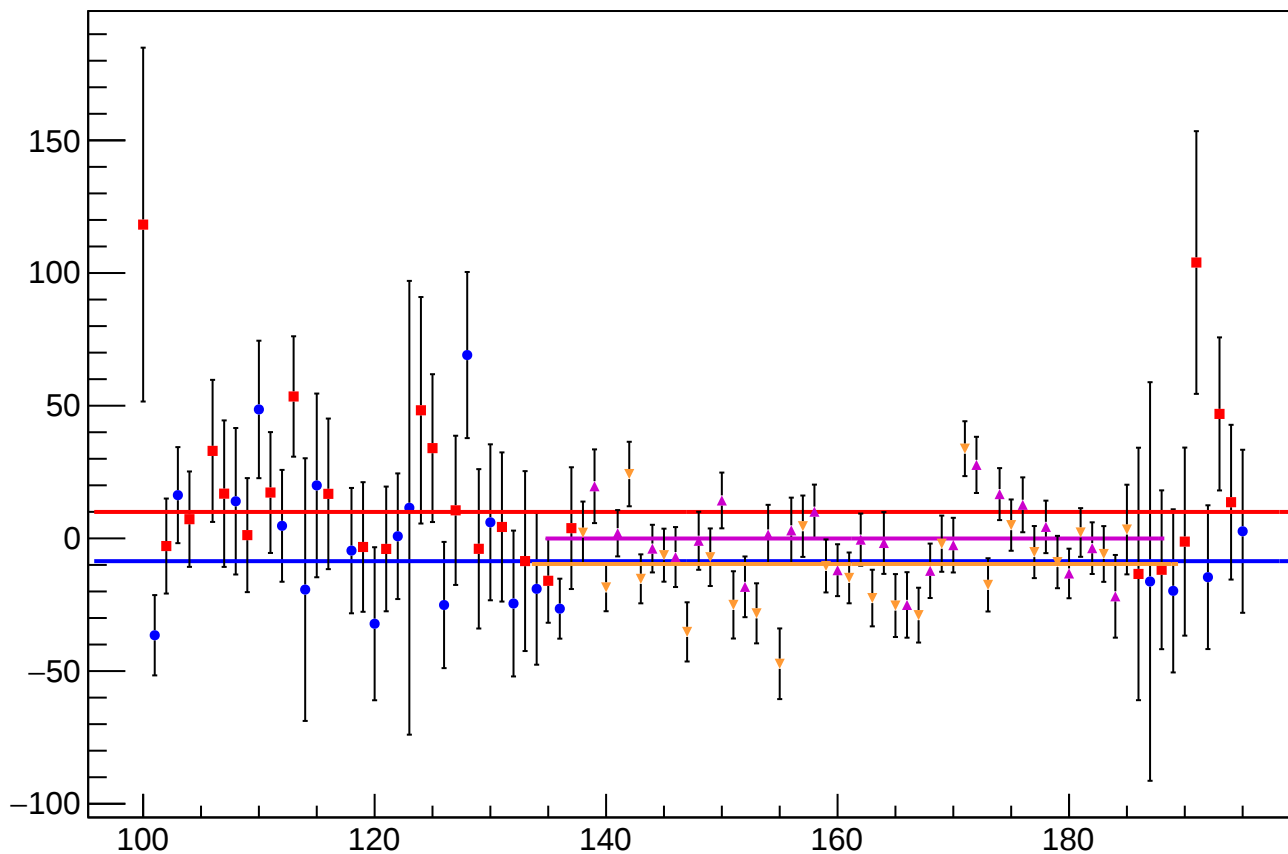
Right: 6198.537 $\pm$ 1.036 χ^2/NDF : 3008891.9/45

In: 6527.219 $\pm$ 0.914 χ^2/NDF : 1577761.9/43

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

All: 6465.158 $\pm$ 0.628 χ^2/NDF : 3924847.0/93

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.579 ± 5.226 $\chi^2/\text{NDF}: 23.1/20$

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 $\chi^2/\text{NDF}: 100.5/47$

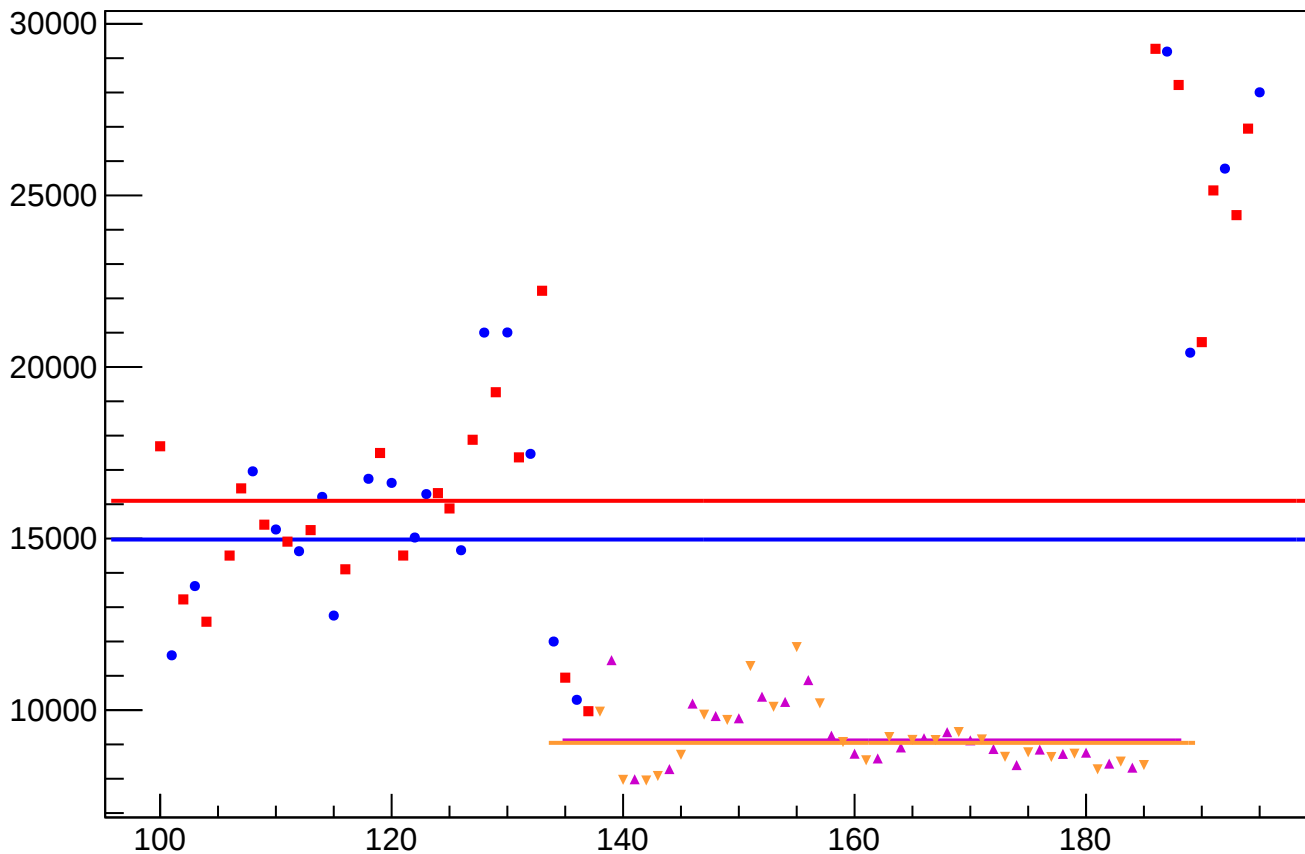
Right: 0.781 ± 3.678 $\chi^2/\text{NDF}: 49.1/45$

In: -1.328 ± 2.028 $\chi^2/\text{NDF}: 56.1/43$

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

All: -4.163 ± 1.410 $\chi^2/\text{NDF}: 151.7/93$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14971.608 ± 3.695 $\chi^2/\text{NDF}: 1501393.7/20$

Left Out: 9045.871 ± 1.500 $\chi^2/\text{NDF}: 328508.5/24$

Right Out: 16099.939 ± 3.661 $\chi^2/\text{NDF}: 1653892.8/24$

Left In: 9115.817 ± 1.556 $\chi^2/\text{NDF}: 272471.8/22$

Left: 9079.576 ± 1.080 $\chi^2/\text{NDF}: 602027.6/47$

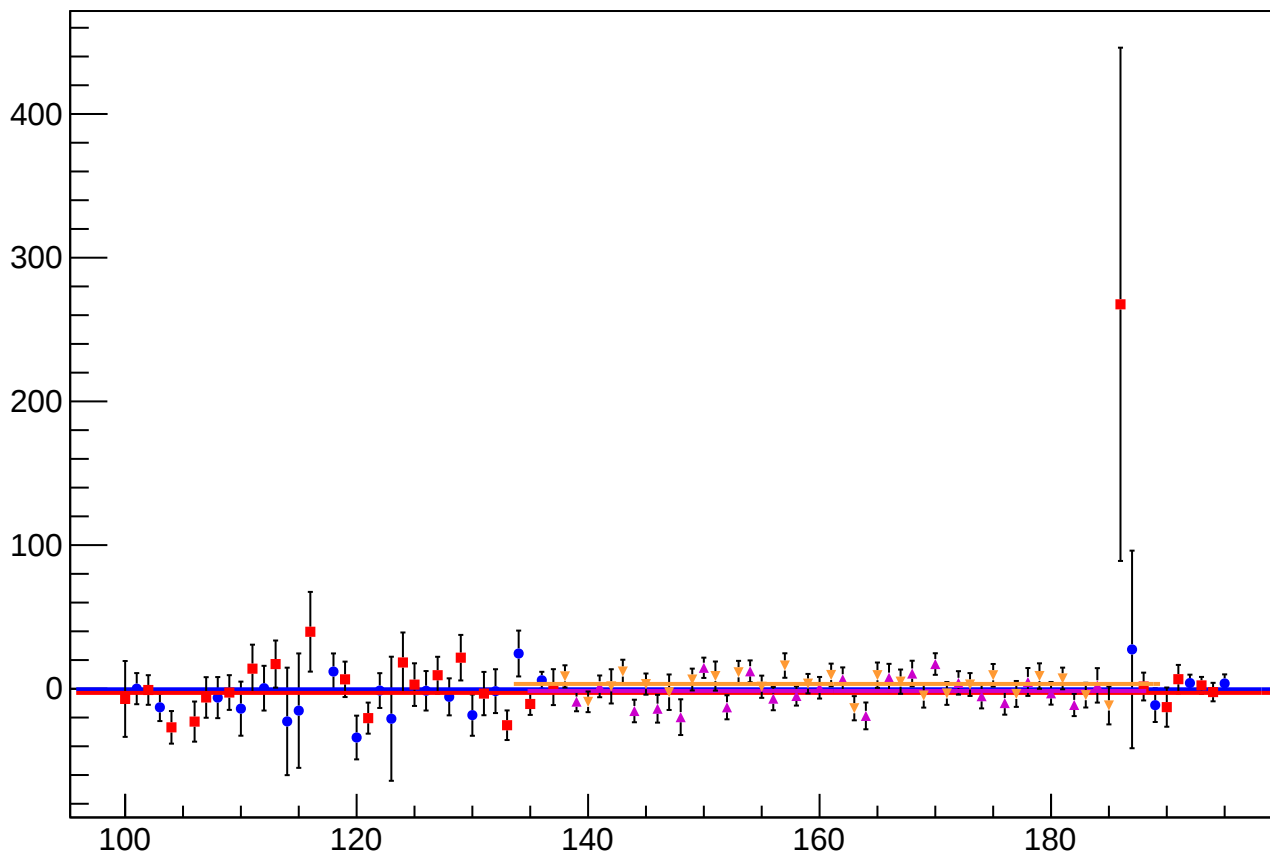
Right: 15541.019 ± 2.601 $\chi^2/\text{NDF}: 3202342.9/45$

In: 9997.552 ± 1.434 $\chi^2/\text{NDF}: 3907165.2/43$

Out: 10060.249 ± 1.388 $\chi^2/\text{NDF}: 5161367.6/49$

All: 10029.913 ± 0.997 $\chi^2/\text{NDF}: 9069519.8/95$

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -0.333 ± 2.453 χ^2/NDF : 16.3/20

Left Out: 3.387 ± 1.668 χ^2/NDF : 19.4/24

Right Out: -2.845 ± 2.277 χ^2/NDF : 29.9/24

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

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

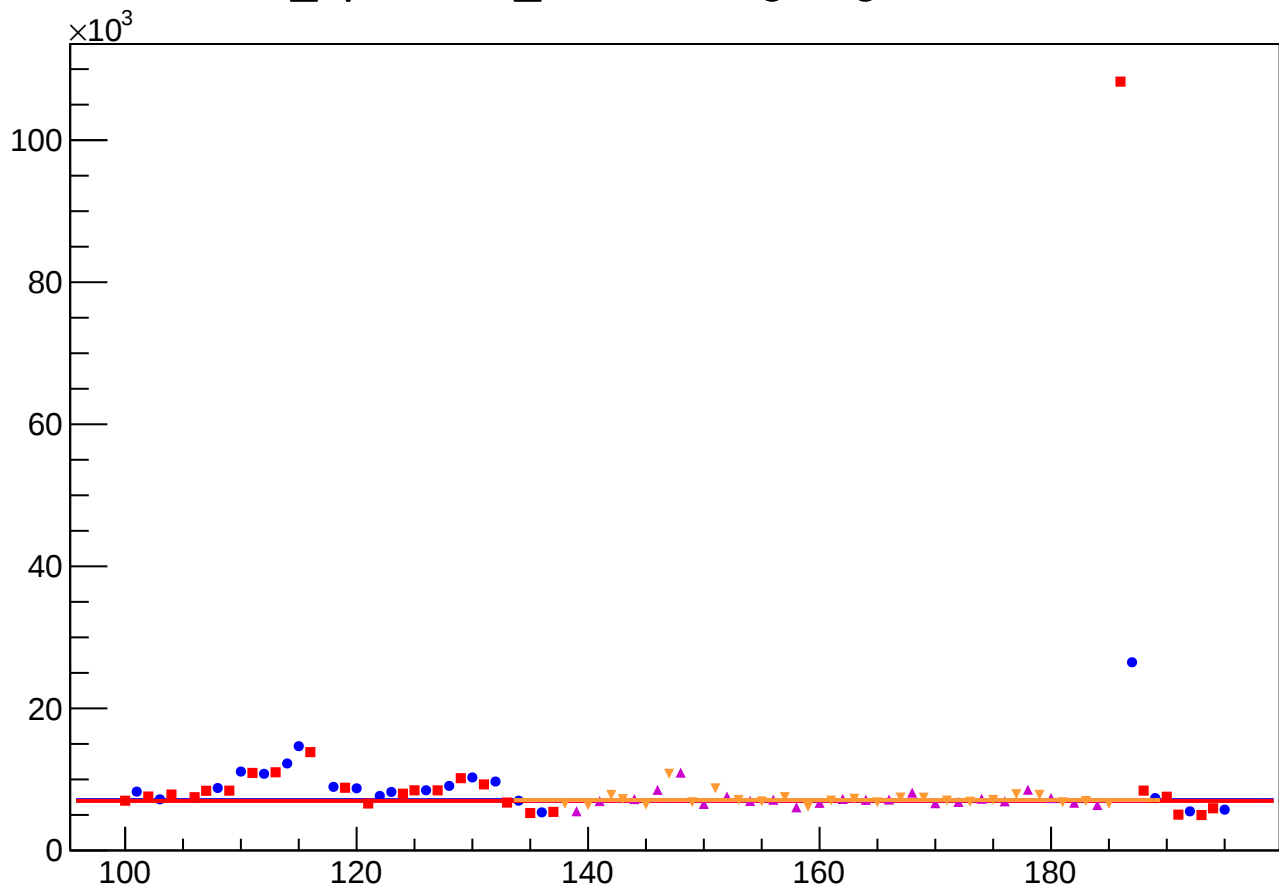
Right: -1.683 ± 1.669 χ^2/NDF : 46.7/45

In: -1.104 ± 1.403 χ^2/NDF : 53.2/43

Out: 1.210 ± 1.345 χ^2/NDF : 54.1/49

All: 0.101 ± 0.971 χ^2/NDF : 108.7/93

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7085.381+/-1.735 χ^2/NDF : 1240939.3/20

Left Out: 7096.350+/-1.179 χ^2/NDF : 381942.1/24

Right Out: 6971.926+/-1.610 χ^2/NDF : 1834217.1/24

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

Left: 7072.425+/-0.844 χ^2/NDF : 900219.9/47

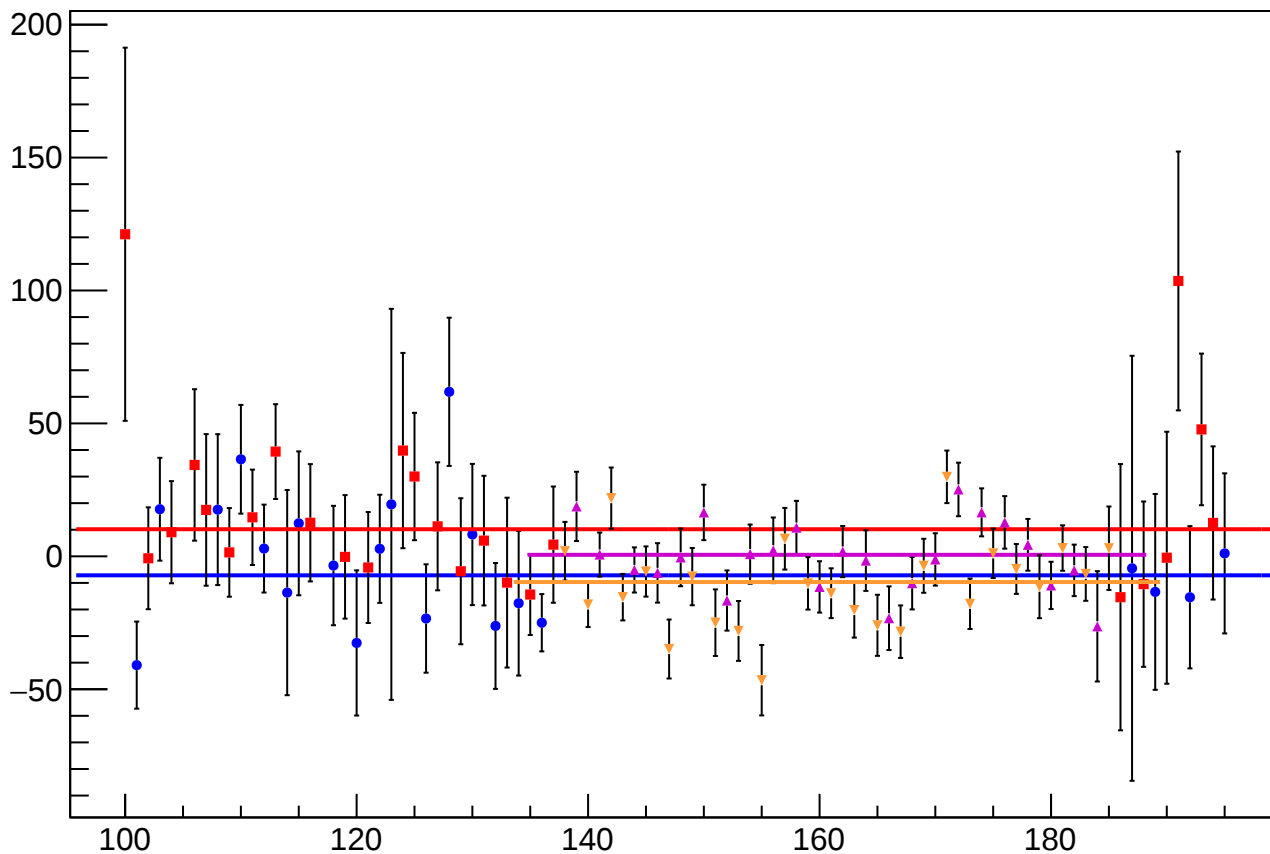
Right: 7024.424+/-1.180 χ^2/NDF : 3077454.4/45

In: 7059.732+/-0.992 χ^2/NDF : 1758697.6/43

Out: 7052.900+/-0.951 χ^2/NDF : 2220046.3/49

All: 7056.173+/-0.687 χ^2/NDF : 3978768.6/93

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.147 $\pm$ 4.885 χ^2/NDF : 24.2/20

Left Out: -9.670 $\pm$ 2.061 χ^2/NDF : 57.9/24

Right Out: 10.192 $\pm$ 4.796 χ^2/NDF : 18.3/24

Left In: 0.564 $\pm$ 2.144 χ^2/NDF : 29.7/22

Left: -4.755 $\pm$ 1.486 χ^2/NDF : 99.5/47

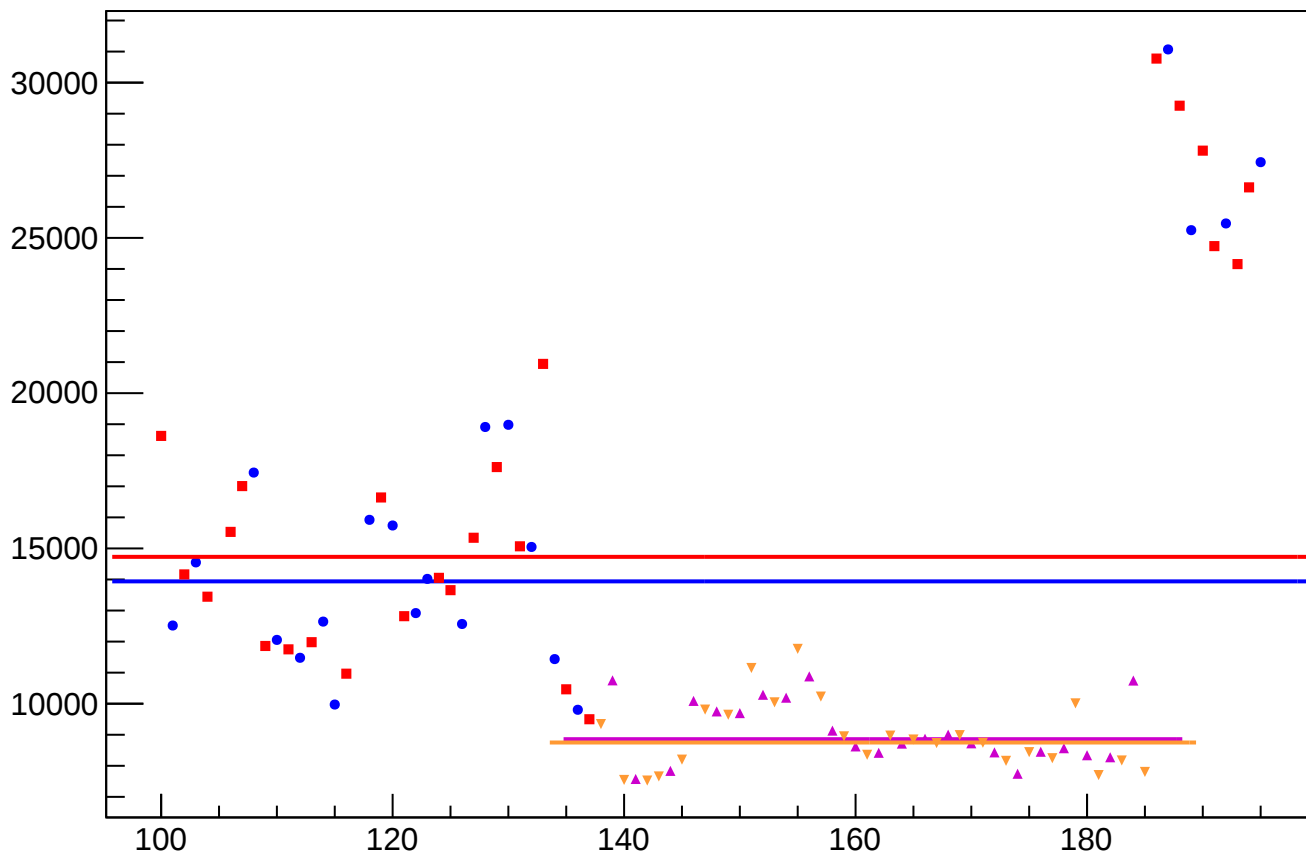
Right: 1.683 $\pm$ 3.422 χ^2/NDF : 48.9/45

In: -0.681 $\pm$ 1.963 χ^2/NDF : 56.1/43

Out: -6.575 $\pm$ 1.893 χ^2/NDF : 90.7/49

All: -3.734 $\pm$ 1.363 χ^2/NDF : 151.4/93

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13939.404 $\pm$ 3.454 χ^2 /NDF: 1697190.6/20

Left Out: 8750.420 $\pm$ 1.457 χ^2 /NDF:463880.1/24

Right Out: 14729.030 $\pm$ 3.391 χ^2 /NDF: 2095312.5/24

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

Left: 8801.764 $\pm$ 1.050 χ^2 /NDF: 828244.3/47

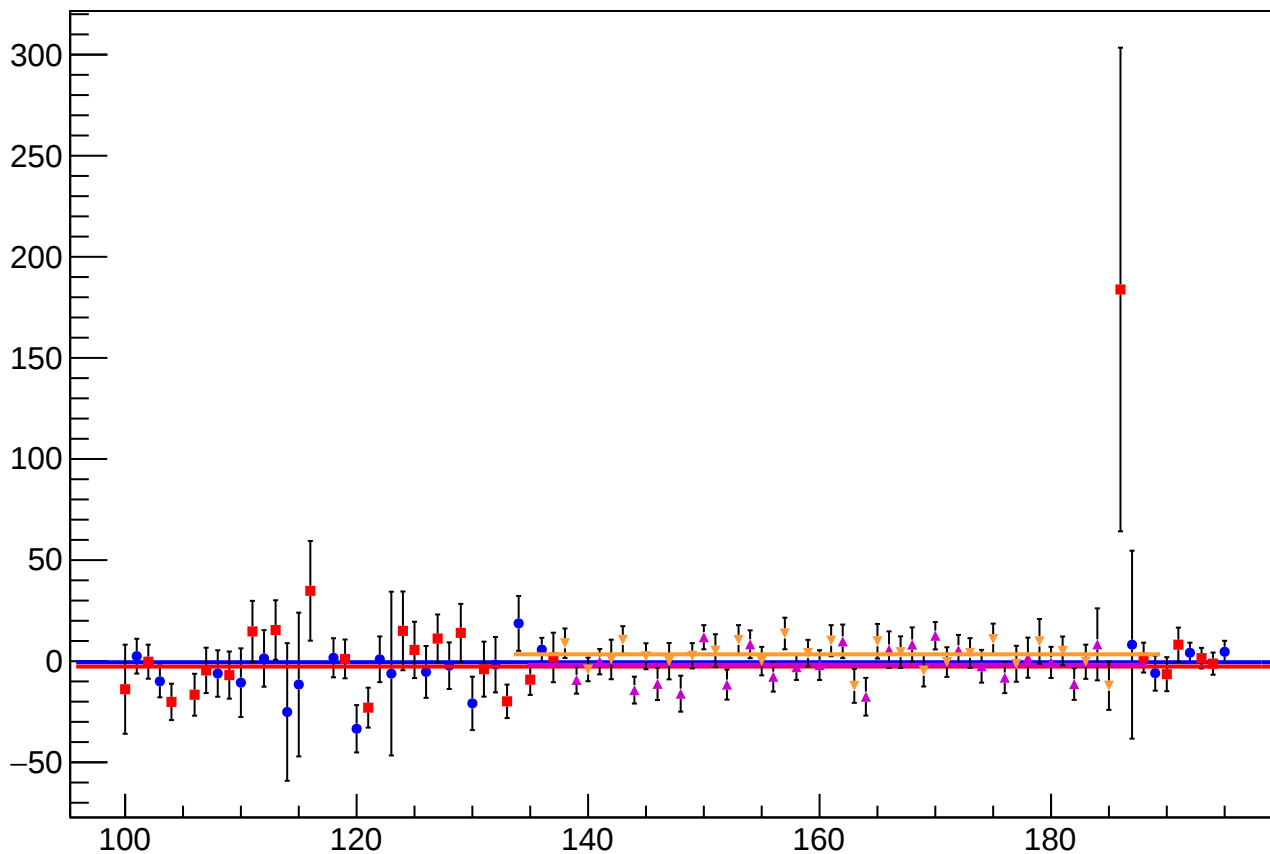
Right: 14341.538 $\pm$ 2.420 χ^2 /NDF: 3819112.6/45

In: 9677.864 $\pm$ 1.388 χ^2 /NDF:3873867.7/43

Out: 9682.250 $\pm$ 1.339 χ^2 /NDF:5183213.4/49

All: 9680.136 $\pm$ 0.964 χ^2 /NDF: 9057086.3/93

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -0.504 ± 2.127 χ^2/NDF : 18.7/20

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

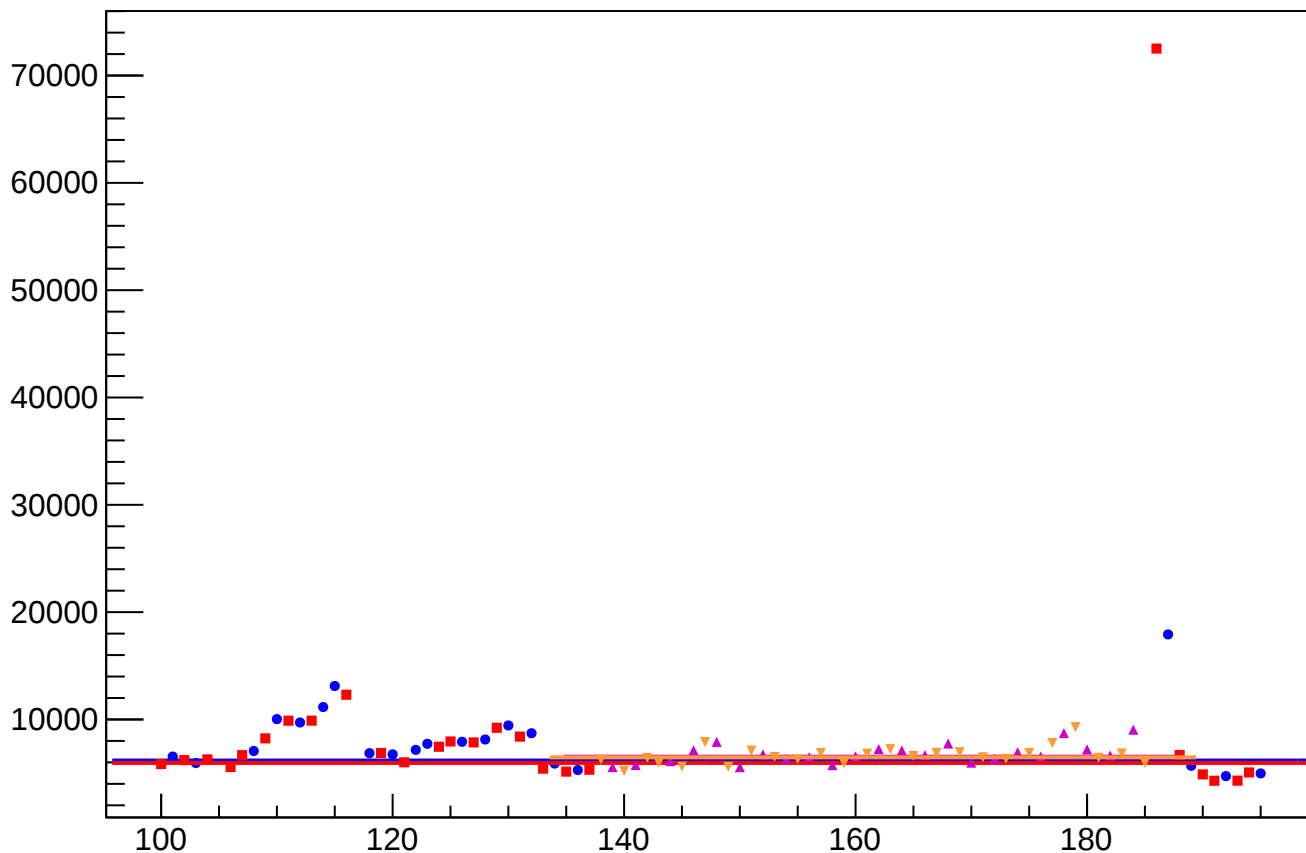
Right: -1.676 ± 1.431 χ^2/NDF : 49.3/45

In: -1.295 ± 1.271 χ^2/NDF : 52.5/43

Out: 1.102 ± 1.198 χ^2/NDF : 52.3/49

All: -0.025 ± 0.872 χ^2/NDF : 106.7/93

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6172.438+/-1.504 χ^2/NDF : 1135147.4/20

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

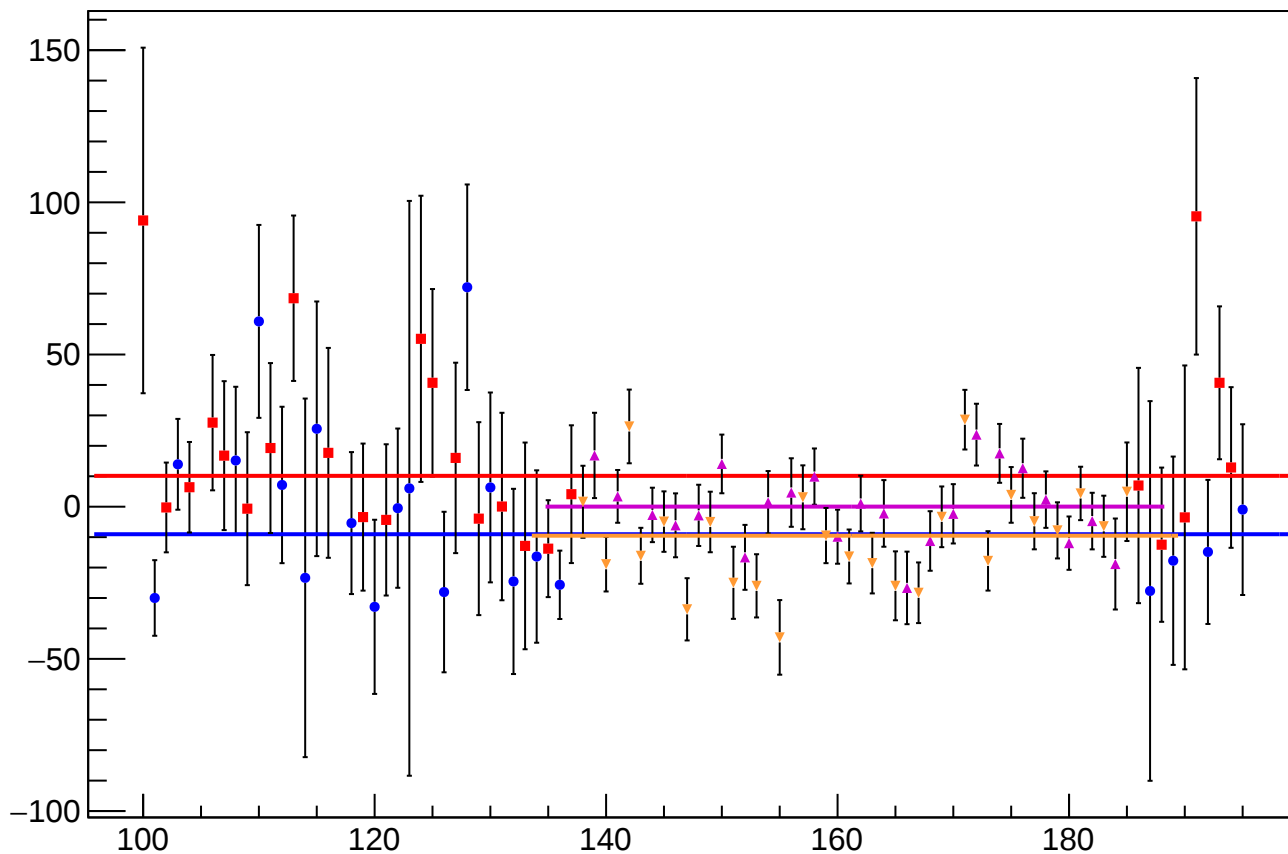
Right: 6051.395+/-1.012 χ^2/NDF : 2992911.6/45

In: 6402.883+/-0.899 χ^2/NDF : 1636331.1/43

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

All: 6332.684+/-0.616 χ^2/NDF : 4069236.5/93

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.045 ± 5.100 χ^2/NDF : 22.4/20

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

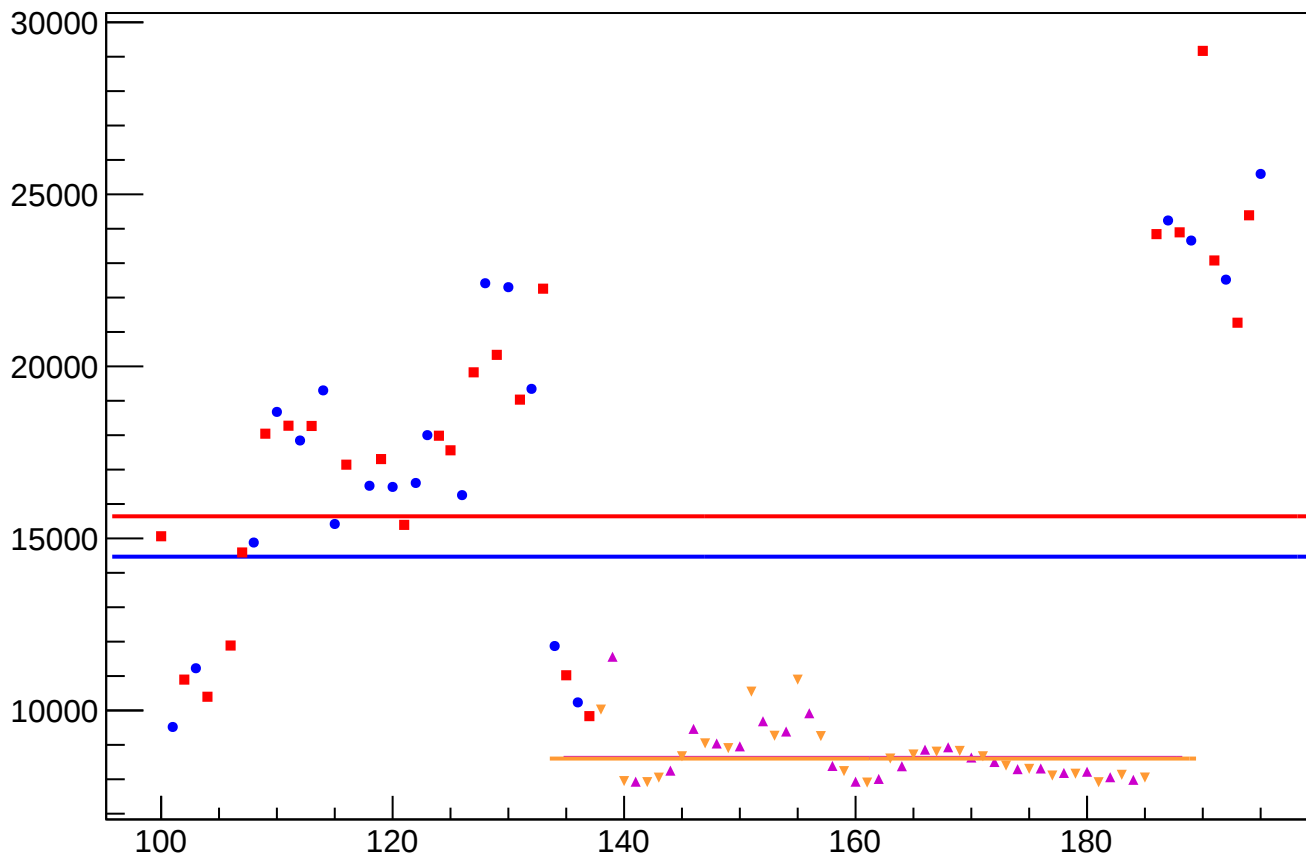
Right: 0.613 ± 3.593 χ^2/NDF : 49.5/45

In: -1.267 ± 1.926 χ^2/NDF : 55.0/43

Out: -6.840 ± 1.872 χ^2/NDF : 92.5/49

All: -4.132 ± 1.342 χ^2/NDF : 151.9/93

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 14469.664 $\pm$ 3.606 χ^2 /NDF: 1876544.4/20

Left Out: 8601.926 $\pm$ 1.425 χ^2 /NDF:248903.5/24

Right Out: 15642.566 $\pm$ 3.581 χ^2 /NDF: 1900485.2/24

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

Left: 8611.634 $\pm$ 1.023 χ^2 /NDF: 479823.8/47

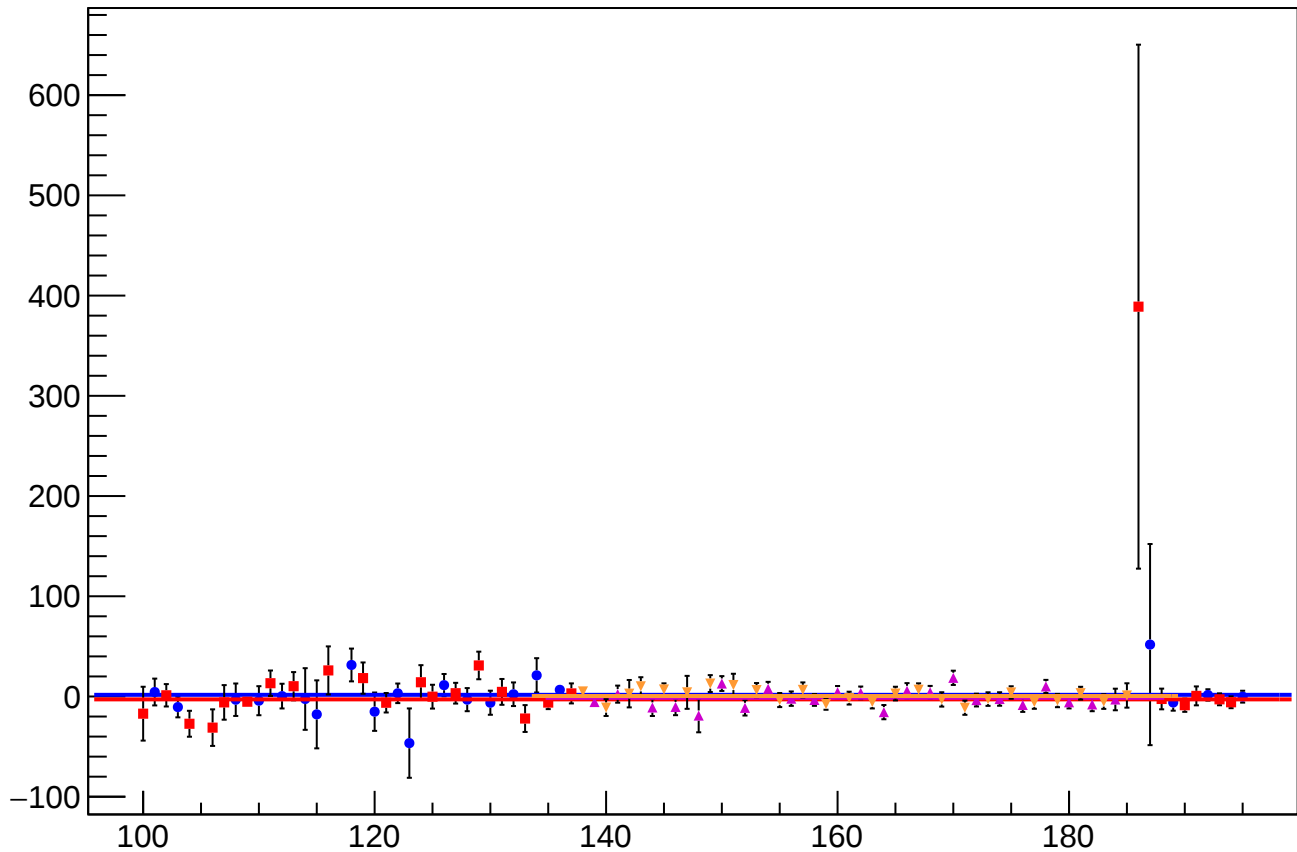
Right: 15060.307 $\pm$ 2.541 χ^2 /NDF: 3830295.1/45

In: 9455.789 $\pm$ 1.362 χ^2 /NDF:4361701.1/43

Out: 9564.538 $\pm$ 1.324 χ^2 /NDF:5487057.6/49

All: 9511.694 $\pm$ 0.949 χ^2 /NDF: 9852037.0/93

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.655 ± 2.204 $\chi^2/\text{NDF}: 13.2/20$

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 $\chi^2/\text{NDF}: 53.4/47$

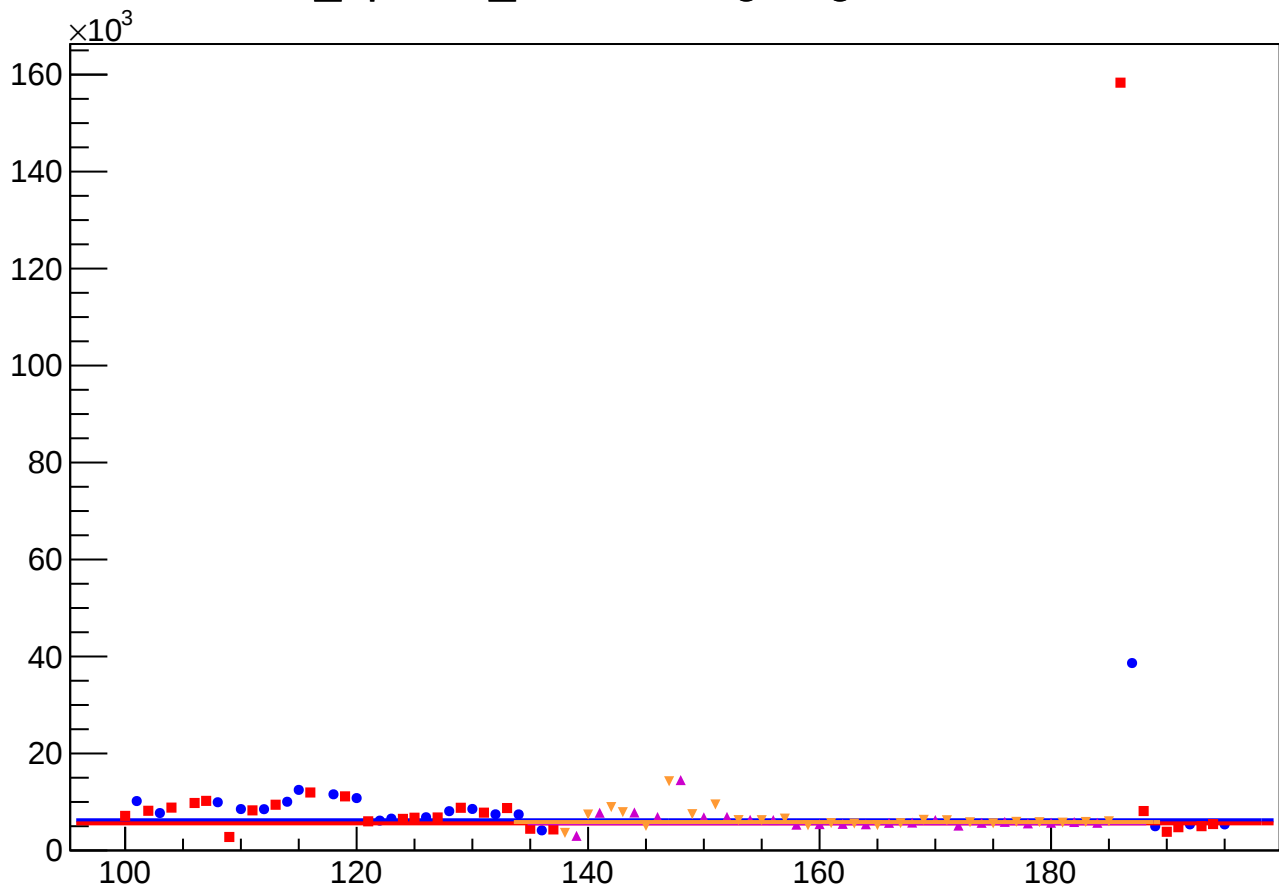
Right: -0.911 ± 1.453 $\chi^2/\text{NDF}: 42.0/45$

In: -0.444 ± 1.185 $\chi^2/\text{NDF}: 47.5/43$

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

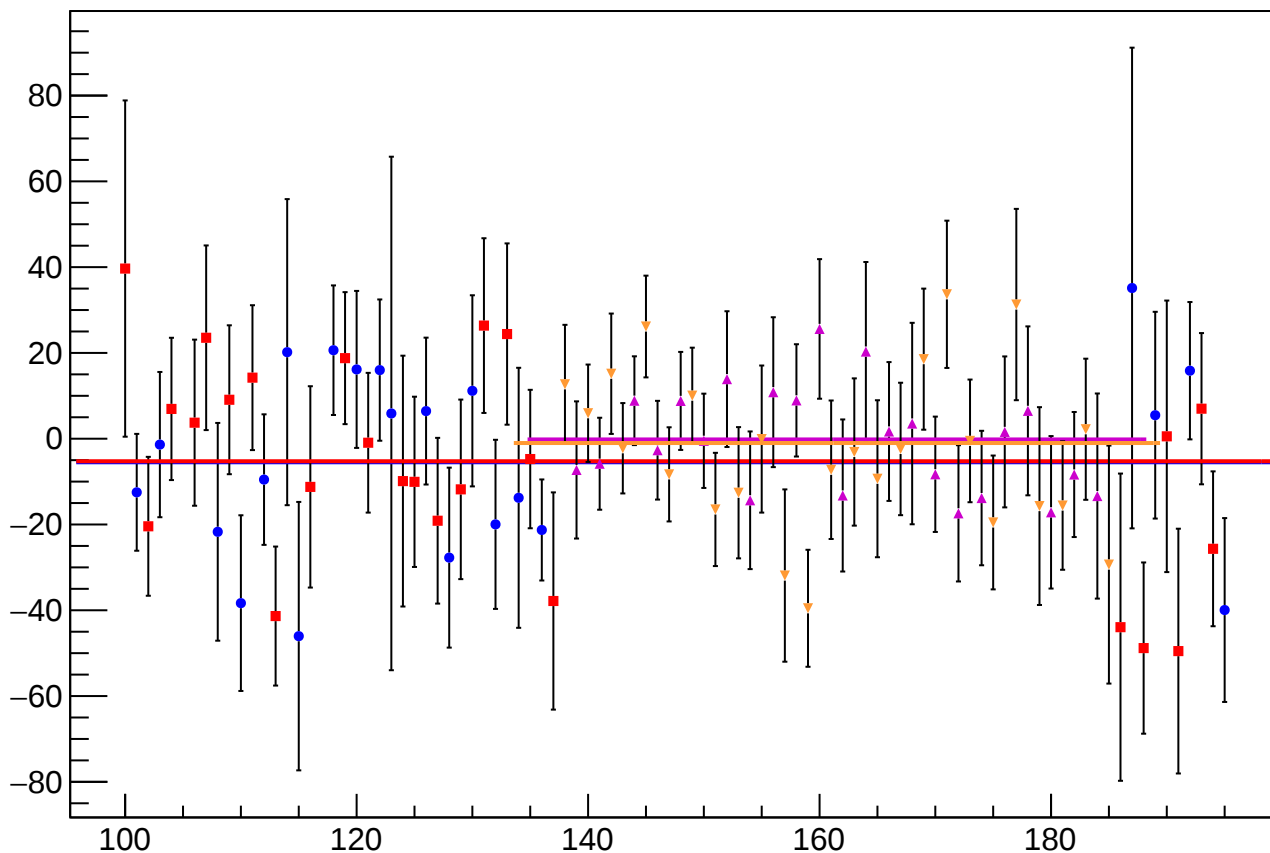
All: -0.576 ± 0.823 $\chi^2/\text{NDF}: 95.4/93$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6225.748 $\pm$ 1.558	χ^2/NDF : 1796790.3/20	Left: 5726.555 $\pm$ 0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2/NDF : 1691344.1/24	Right: 5864.259 $\pm$ 1.027	χ^2/NDF : 5170773.2/45
Right Out: 5586.685 $\pm$ 1.366	χ^2/NDF : 3278863.6/24	In: 5778.825 $\pm$ 0.838	χ^2/NDF : 4002264.3/43
Left In: 5596.879 $\pm$ 0.994	χ^2/NDF : 2089750.1/22	Out: 5763.276 $\pm$ 0.809	χ^2/NDF : 4995960.0/49
		All: 5770.771 $\pm$ 0.582	χ^2/NDF : 8998402.5/93

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.495 ± 4.190 χ^2/NDF : 21.4/20

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

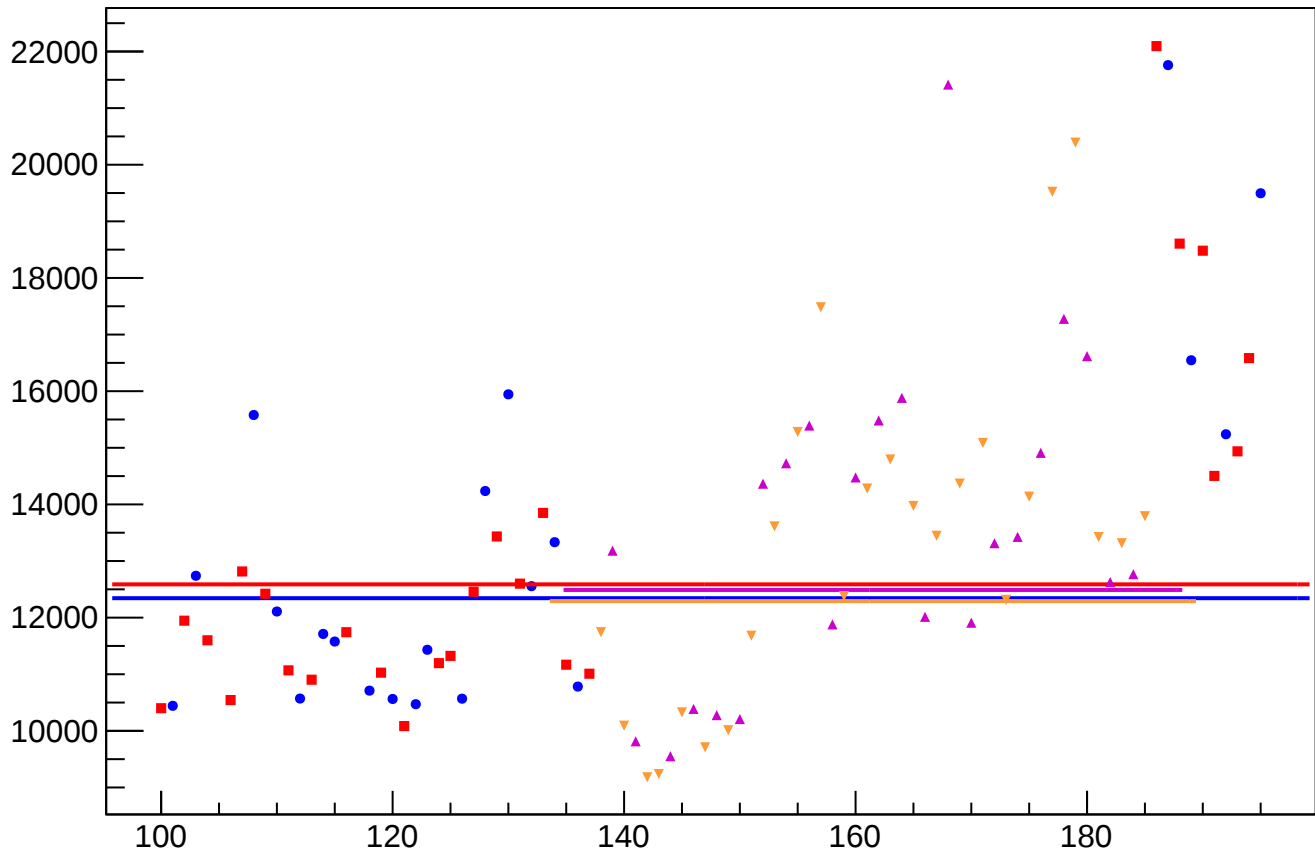
Right: -5.368 ± 2.877 χ^2/NDF : 52.5/45

In: -2.030 ± 2.475 χ^2/NDF : 34.8/43

Out: -2.519 ± 2.361 χ^2/NDF : 65.4/49

All: -2.286 ± 1.708 χ^2/NDF : 100.2/93

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12343.613+/-2.963 χ^2/NDF : 703300.2/20

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

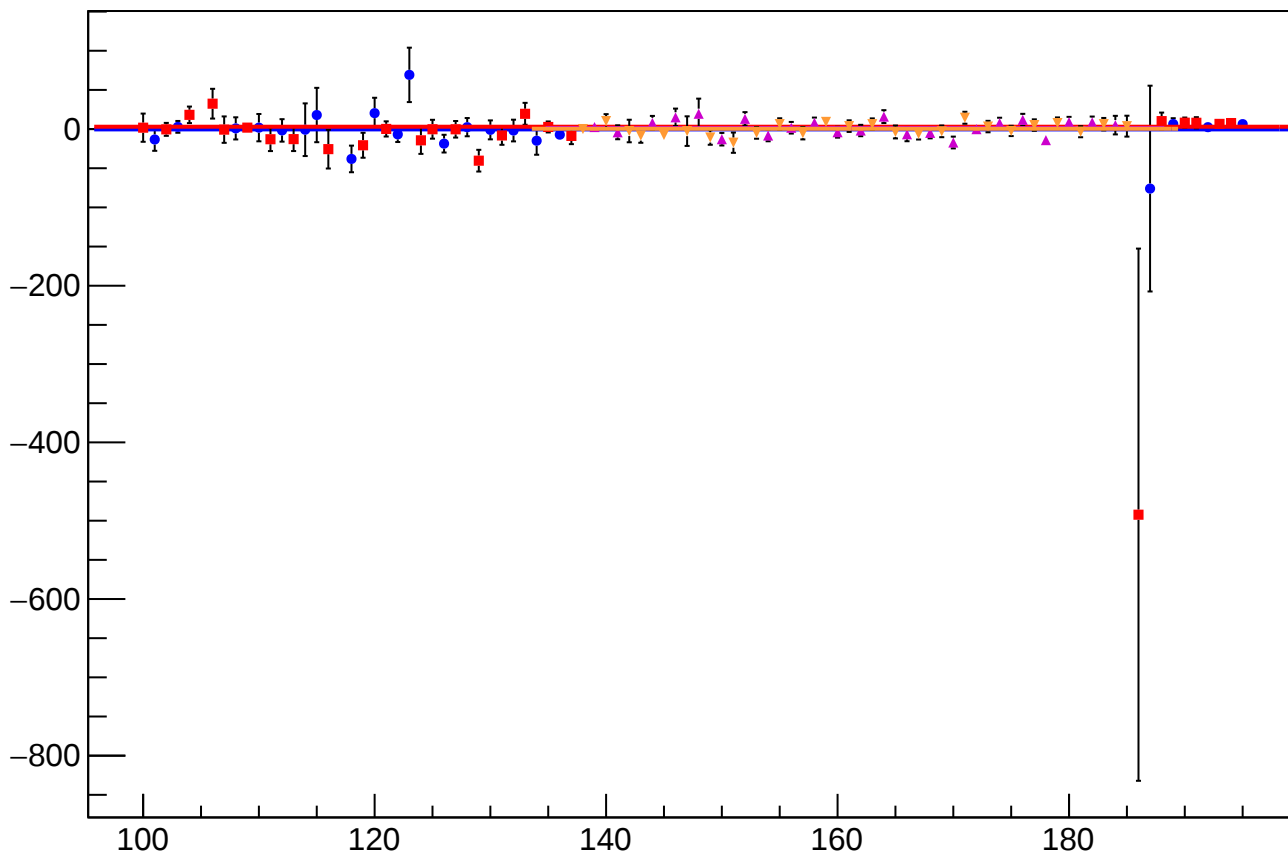
Right: 12472.730+/-2.034 χ^2/NDF : 1435213.9/45

In: 12438.158+/-1.750 χ^2/NDF : 2059349.6/43

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

All: 12416.970+/-1.208 χ^2/NDF : 4297672.8/99

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.420 ± 2.036 $\chi^2/\text{NDF}: 20.5/20$

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 $\chi^2/\text{NDF}: 53.5/47$

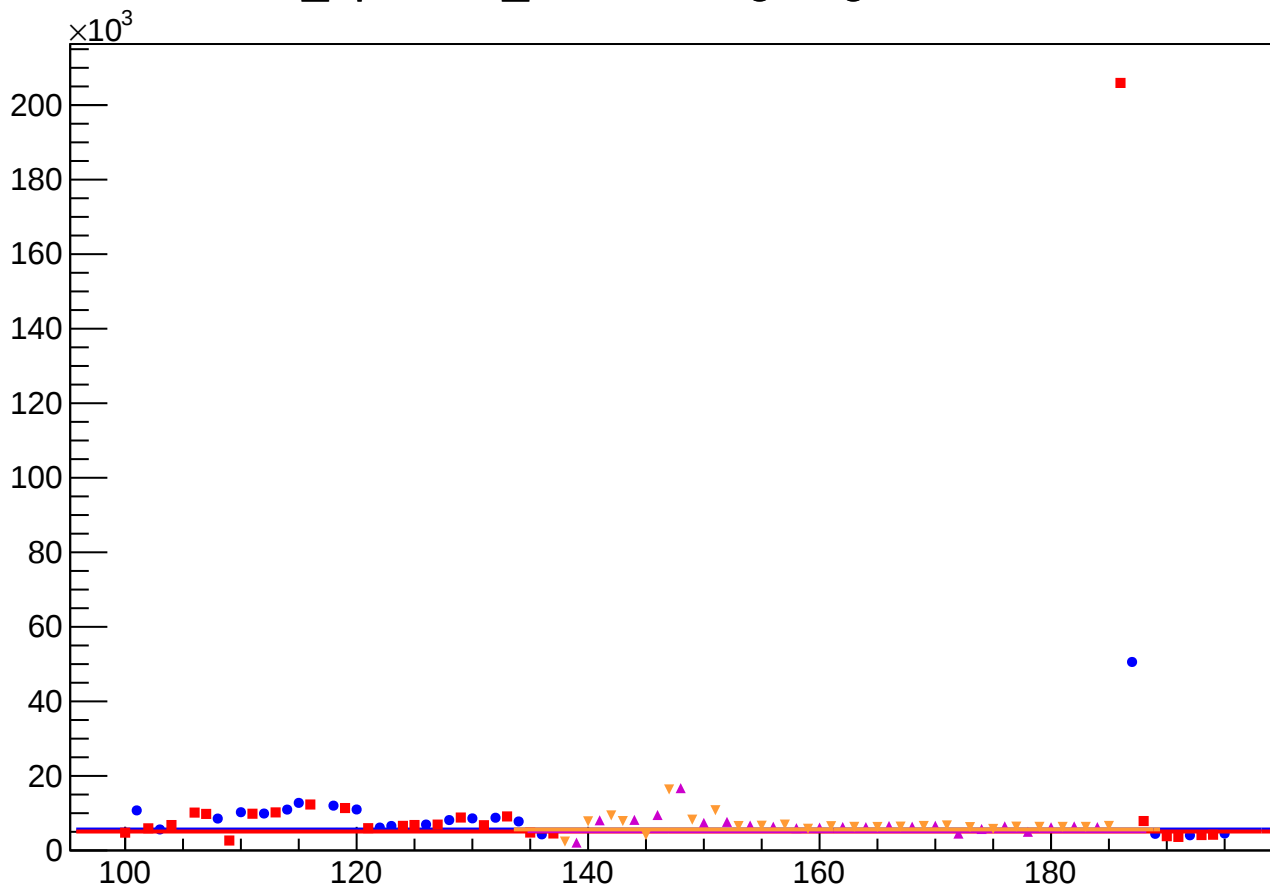
Right: 1.505 ± 1.347 $\chi^2/\text{NDF}: 52.4/45$

In: 0.741 ± 1.146 $\chi^2/\text{NDF}: 55.0/43$

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

All: 1.088 ± 0.801 $\chi^2/\text{NDF}: 106.0/93$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5613.395 $\pm$ 1.439 χ^2 /NDF: 2398914.8/20

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

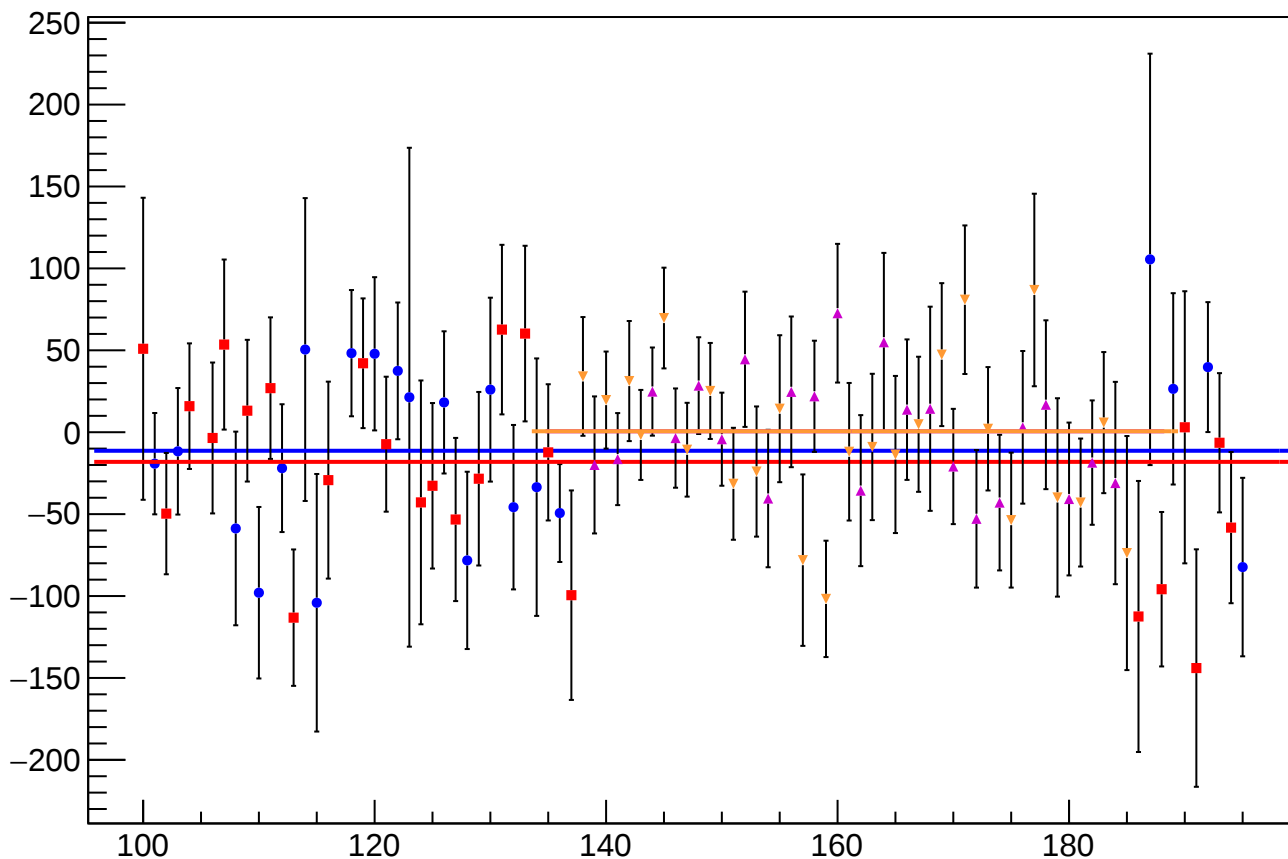
Right: 5314.163 $\pm$ 0.952 χ^2 /NDF: 5922072.2/45

In: 5317.744 $\pm$ 0.810 χ^2 /NDF: 7810703.7/43

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

All: 5376.060 $\pm$ 0.566 χ^2 /NDF: 15516168.1/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -11.321 ± 10.398 χ^2/NDF : 20.0/20

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

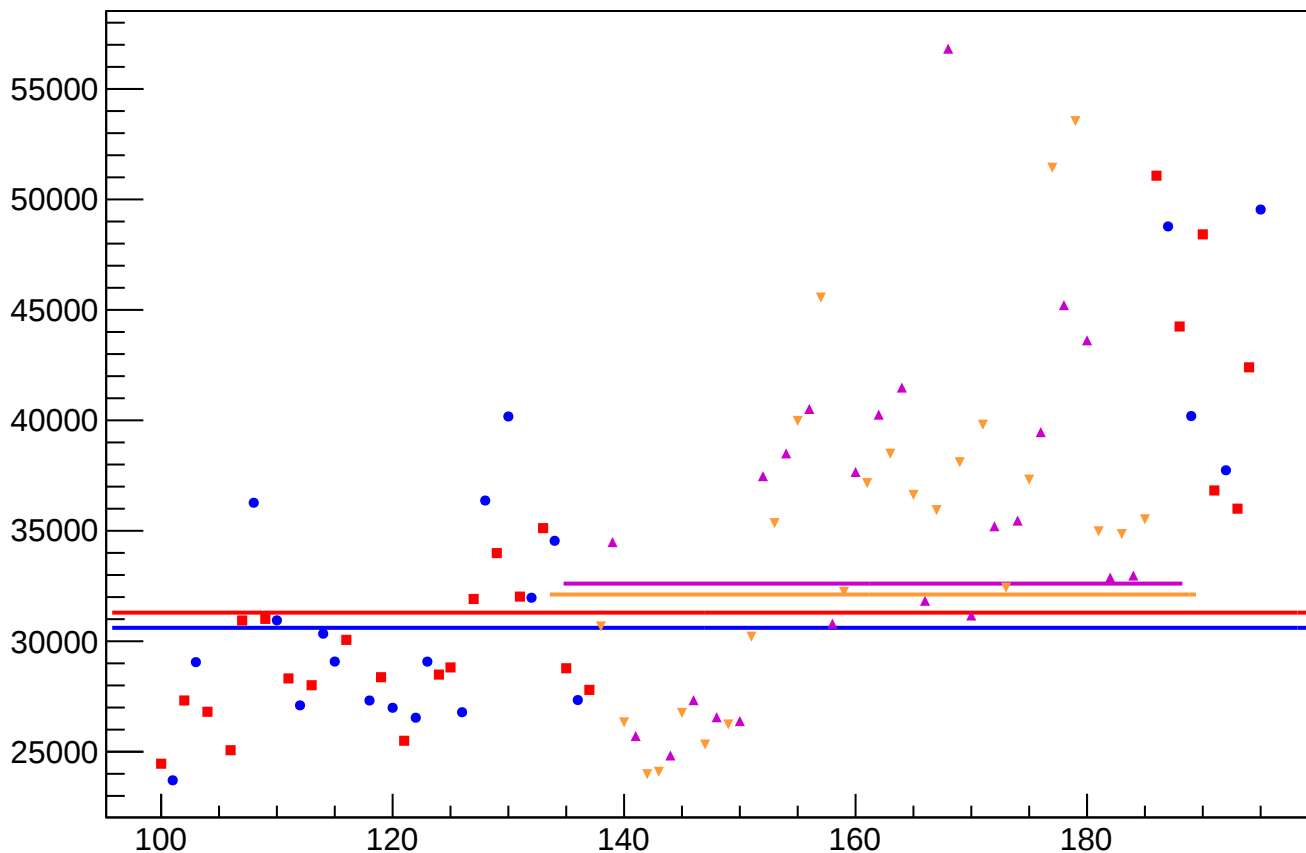
Right: -14.899 ± 7.143 χ^2/NDF : 48.4/45

In: -3.865 ± 6.348 χ^2/NDF : 35.1/43

Out: -6.512 ± 6.057 χ^2/NDF : 61.4/49

All: -5.251 ± 4.382 χ^2/NDF : 96.6/93

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 30608.360+/-7.353

χ^2/NDF : 712718.7/20

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

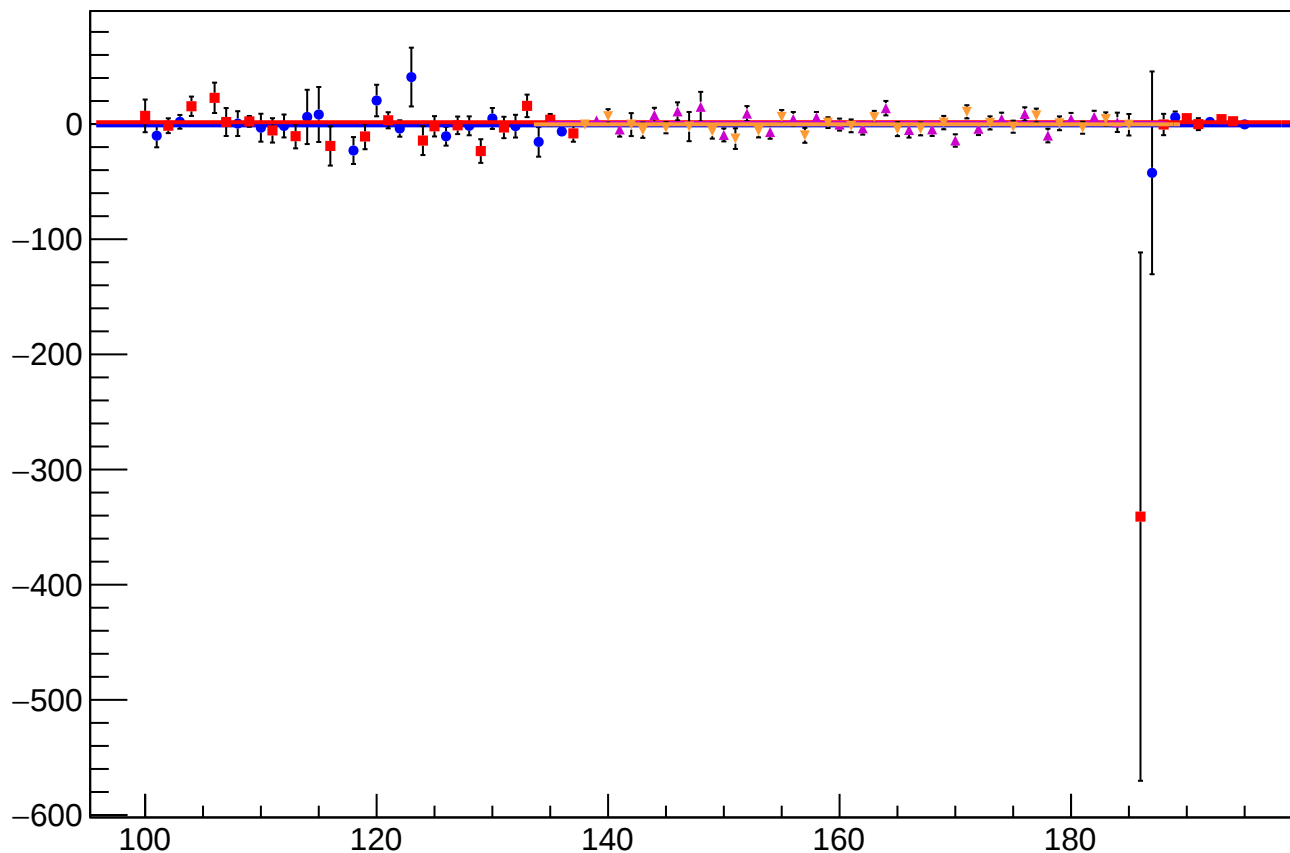
Right: 30971.512+/-5.051 χ^2/NDF : 1428203.5/45

In: 31864.096+/-4.489 χ^2/NDF :2157692.2/43

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

All: 31833.325+/-3.099 χ^2/NDF : 4414048.5/99

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.136 ± 1.430 χ^2/NDF : 18.8/20

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

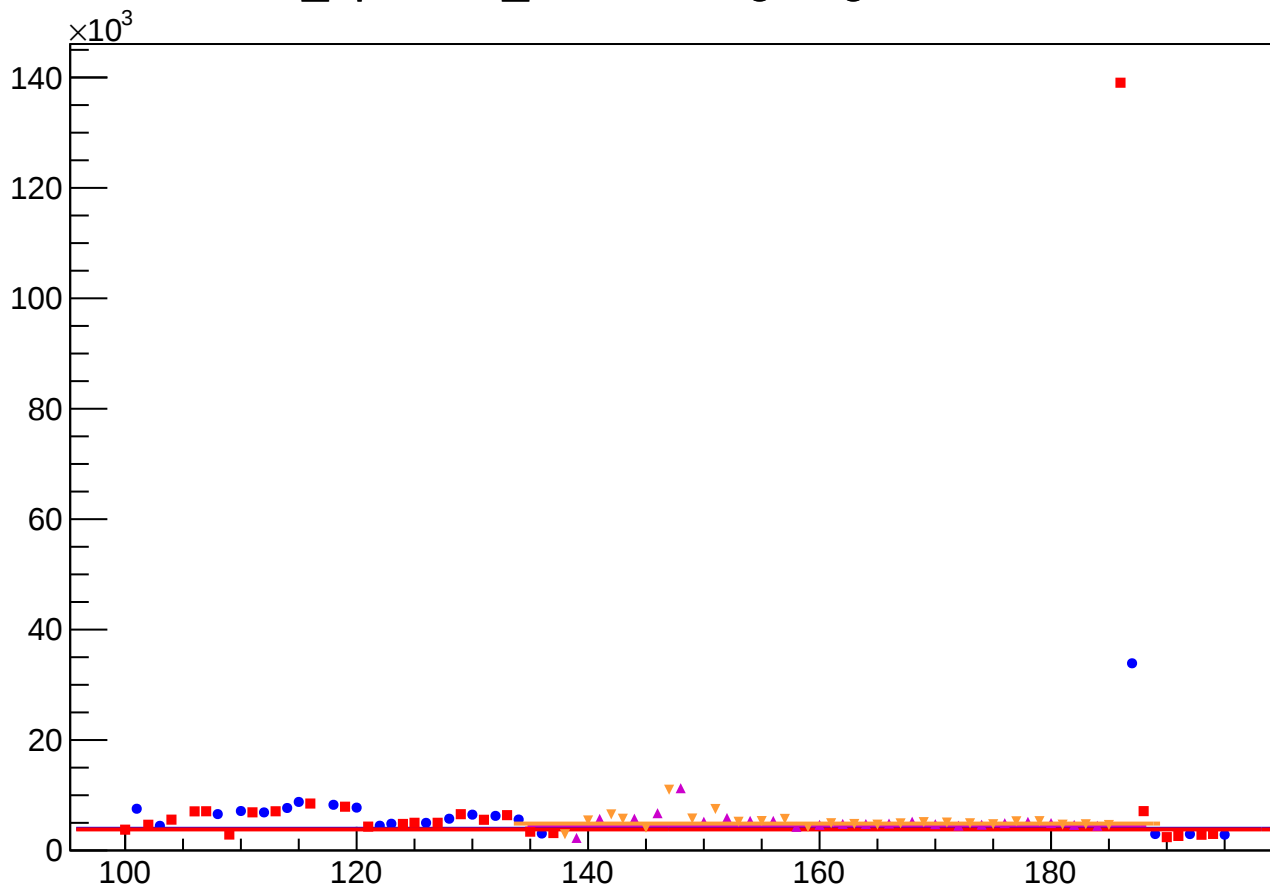
Right: 0.332 ± 0.972 χ^2/NDF : 46.9/45

In: 0.113 ± 0.898 χ^2/NDF : 56.2/43

Out: 0.557 ± 0.878 χ^2/NDF : 45.3/49

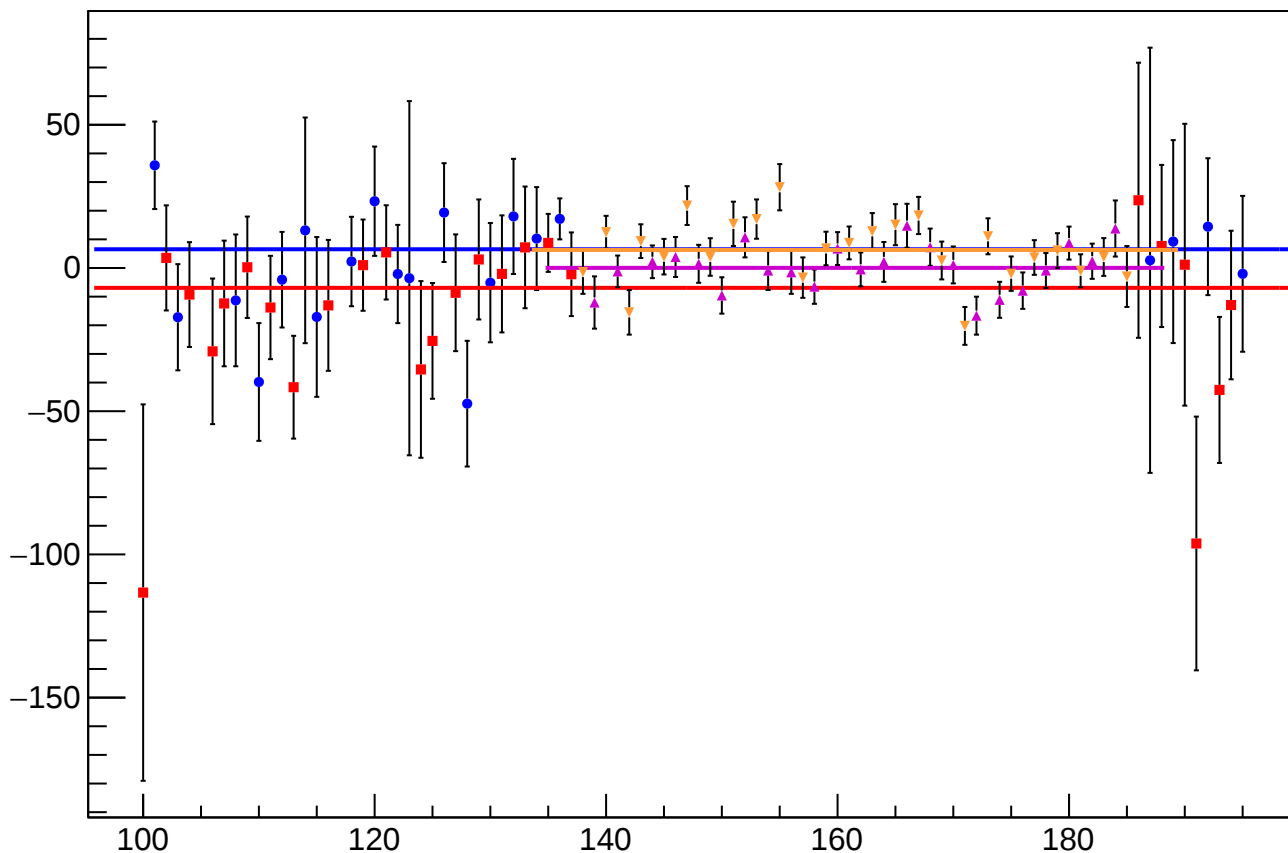
All: 0.340 ± 0.628 χ^2/NDF : 101.6/93

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3925.377+/-1.011	χ^2/NDF : 2585911.9/20	Left: 4722.017+/-0.582	χ^2/NDF : 4049906.1/47
Left Out: 4866.528+/-0.829	χ^2/NDF : 1511486.2/24	Right: 3863.581+/-0.687	χ^2/NDF : 5922841.1/45
Right Out: 3810.535+/-0.937	χ^2/NDF : 3329988.4/24	In: 4323.233+/-0.635	χ^2/NDF : 5320170.5/43
Left In: 4582.193+/-0.816	χ^2/NDF : 2478681.0/22	Out: 4402.570+/-0.621	χ^2/NDF : 5553780.3/49
		All: 4363.782+/-0.444	χ^2/NDF : 10881931.2/9

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.542 ± 3.941 χ^2/NDF : 23.0/20

Left Out: 6.302 ± 1.313 χ^2/NDF : 56.7/24

Right Out: -6.930 ± 4.029 χ^2/NDF : 20.4/24

Left In: 0.044 ± 1.358 χ^2/NDF : 30.0/22

Left: 3.279 ± 0.944 χ^2/NDF : 97.7/47

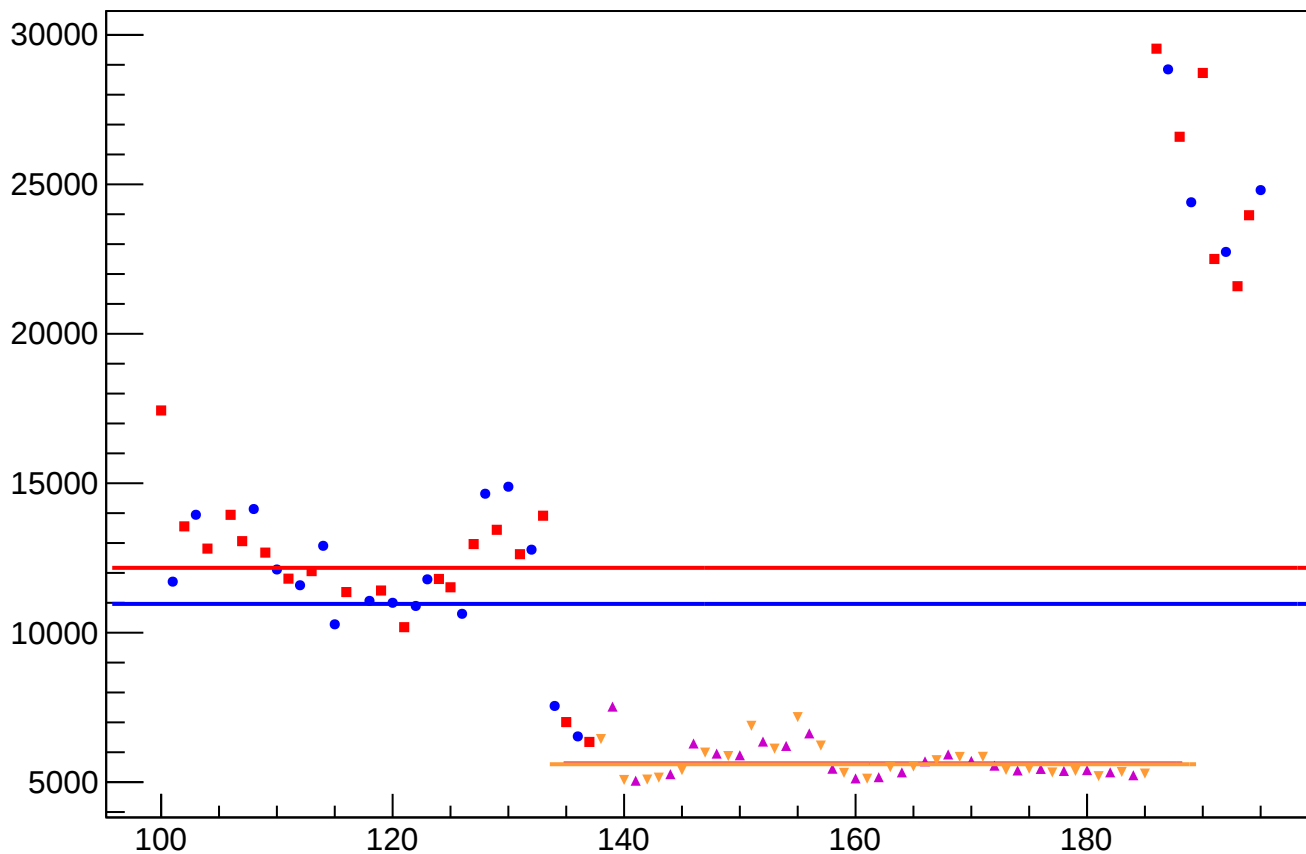
Right: -0.045 ± 2.817 χ^2/NDF : 49.1/45

In: 0.734 ± 1.284 χ^2/NDF : 55.4/43

Out: 5.032 ± 1.248 χ^2/NDF : 86.9/49

All: 2.944 ± 0.895 χ^2/NDF : 148.0/93

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10963.278 +/- 2.787 χ^2/NDF : 2500719.8/20

Left Out: 5598.786 +/- 0.928 χ^2/NDF : 283253.4/24

Right Out: 12169.868 +/- 2.849 χ^2/NDF : 2746362.6/24

Left In: 5625.163 +/- 0.960 χ^2/NDF : 272563.5/22

Left: 5611.528 +/- 0.667 χ^2/NDF : 556207.1/47

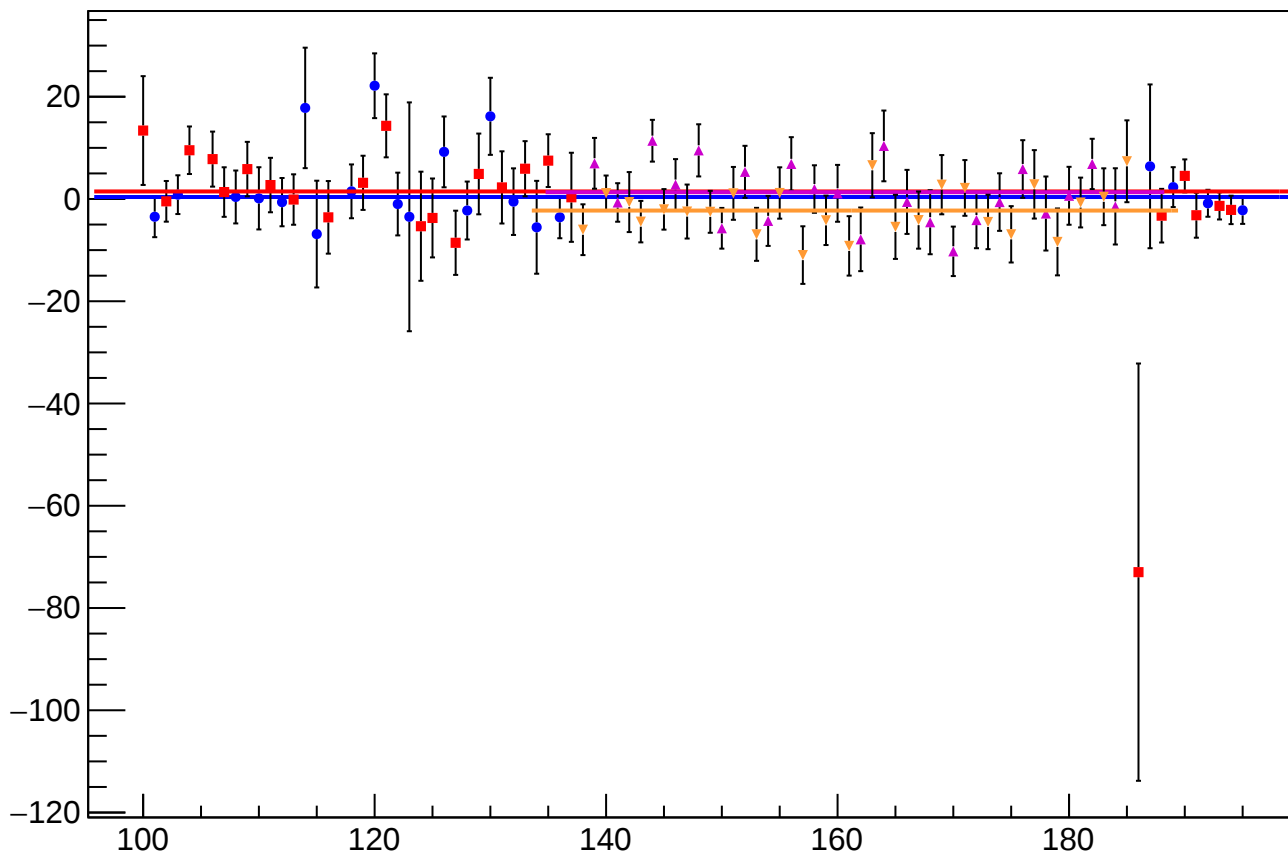
Right: 11553.236 +/- 1.992 χ^2/NDF : 5338743.9/45

In: 6191.510 +/- 0.908 χ^2/NDF : 6053277.6/43

Out: 6229.219 +/- 0.882 χ^2/NDF : 7838806.3/49

All: 6210.896 +/- 0.633 χ^2/NDF : 13892971.2/95

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.385 ± 1.075 χ^2/NDF : 24.7/20

Left Out: -2.262 ± 1.030 χ^2/NDF : 15.5/24

Right Out: 1.474 ± 0.992 χ^2/NDF : 26.3/24

Left In: 1.328 ± 1.082 χ^2/NDF : 30.6/22

Left: -0.555 ± 0.746 χ^2/NDF : 51.9/47

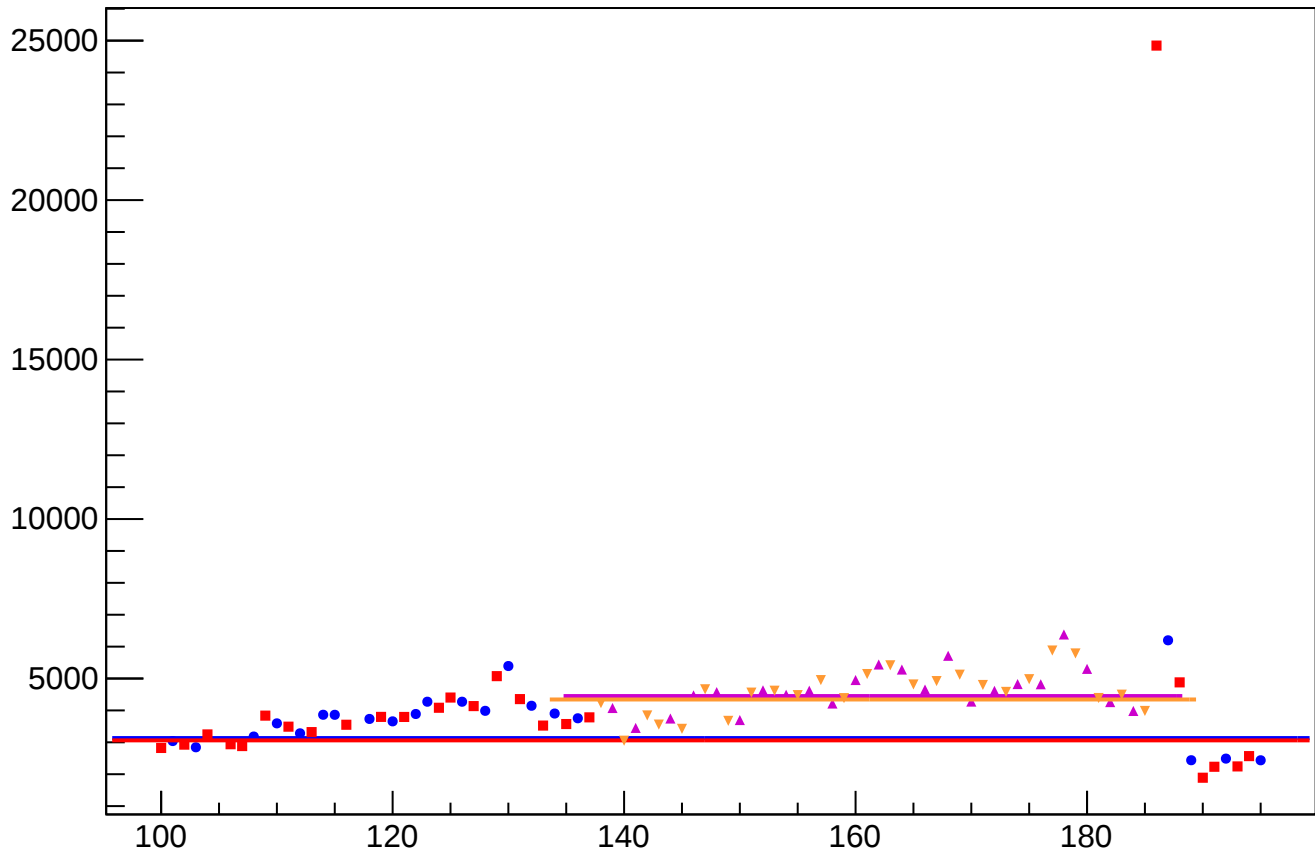
Right: 0.973 ± 0.729 χ^2/NDF : 51.6/45

In: 0.853 ± 0.762 χ^2/NDF : 55.7/43

Out: -0.323 ± 0.714 χ^2/NDF : 48.6/49

All: 0.227 ± 0.521 χ^2/NDF : 105.6/93

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3132.796 $\pm$ 0.760 χ^2/NDF : 898581.2/20

Left Out: 4342.635 $\pm$ 0.728 χ^2/NDF : 993035.5/24

Right Out: 3061.209 $\pm$ 0.701 χ^2/NDF : 1927730.4/24

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

Left: 4393.686 $\pm$ 0.528 χ^2/NDF : 1696596.0/47

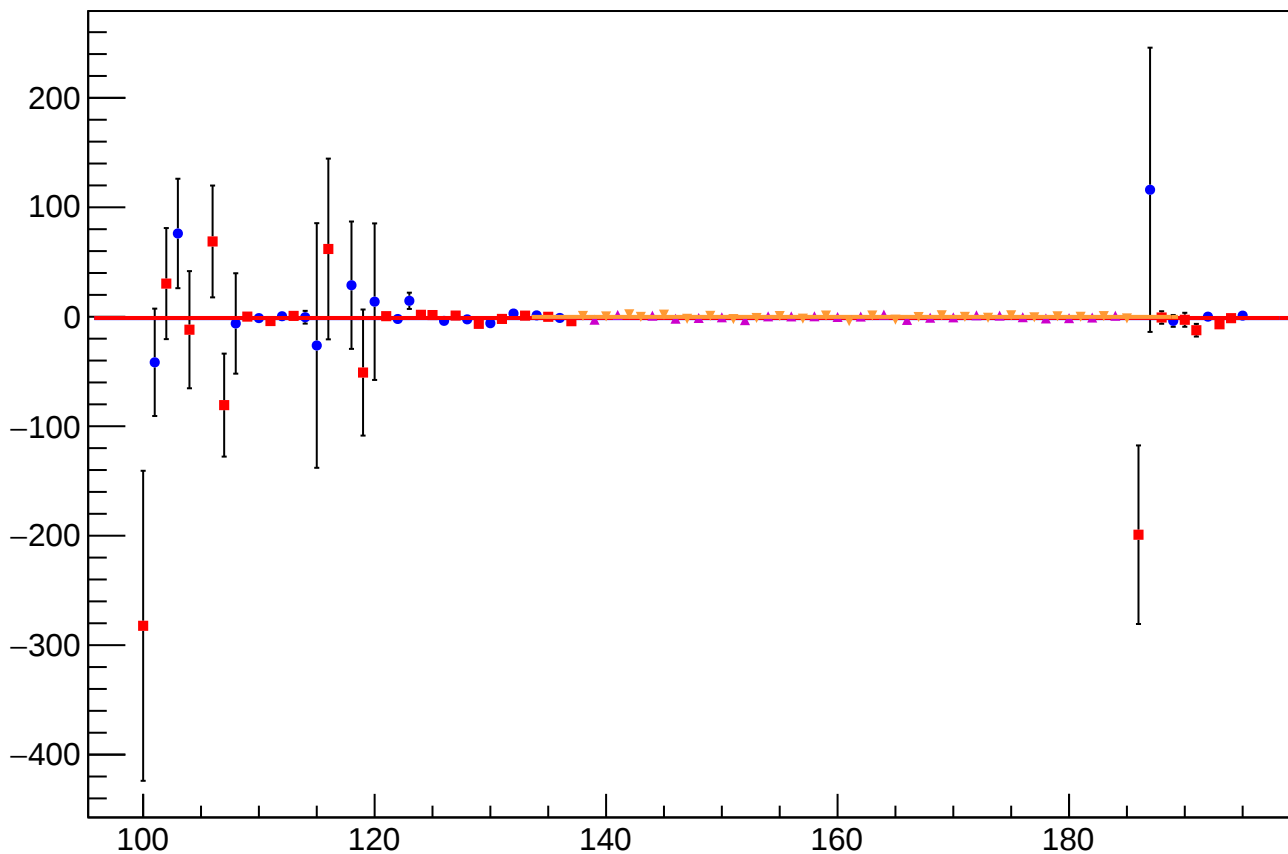
Right: 3094.129 $\pm$ 0.515 χ^2/NDF : 2831104.8/45

In: 3786.938 $\pm$ 0.539 χ^2/NDF : 3083858.2/43

Out: 3677.518 $\pm$ 0.505 χ^2/NDF : 4527064.0/49

All: 3728.669 $\pm$ 0.369 χ^2/NDF : 7632854.5/93

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.250 ± 0.708 χ^2/NDF : 18.5/20

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

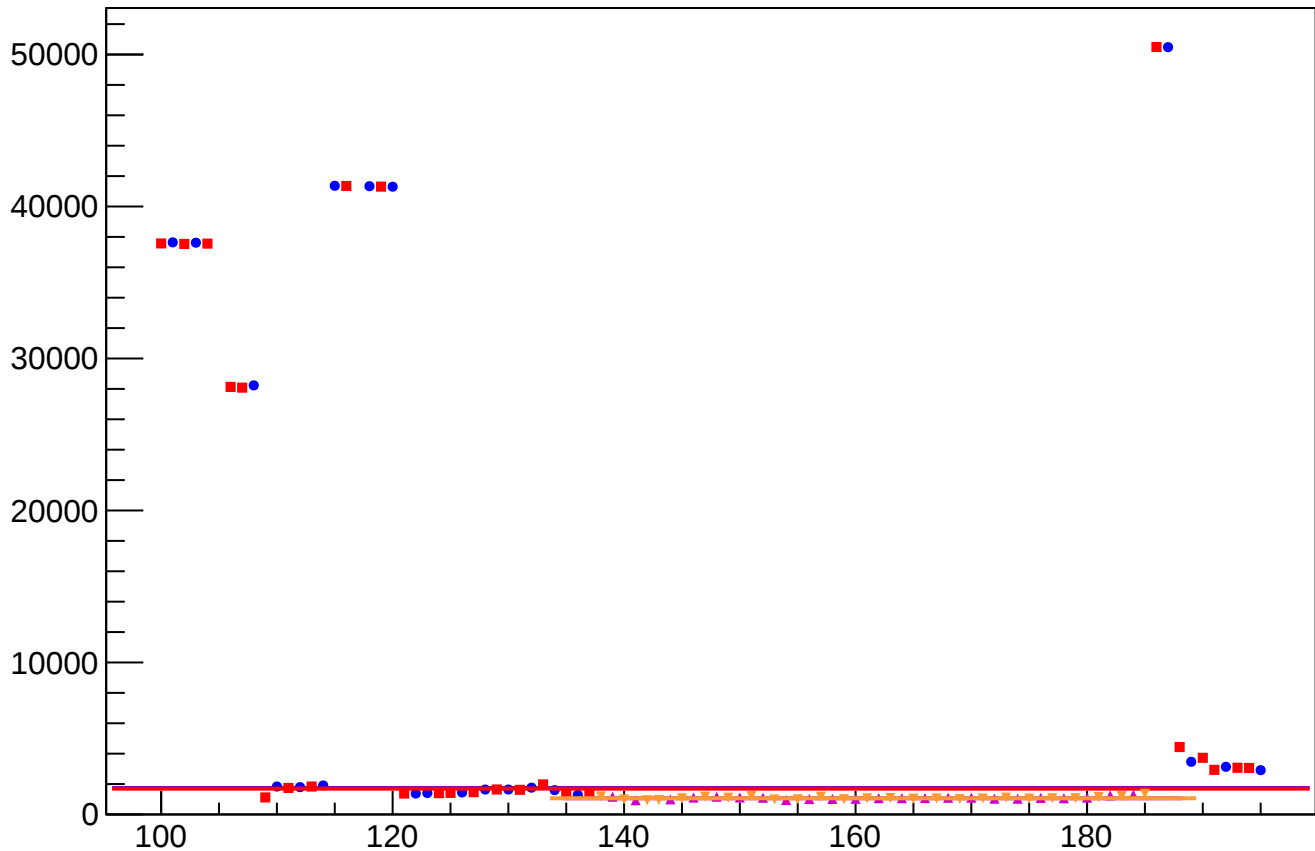
Right: -1.168 ± 0.487 χ^2/NDF : 52.6/45

In: -0.375 ± 0.242 χ^2/NDF : 47.4/43

Out: -0.213 ± 0.233 χ^2/NDF : 70.5/49

All: -0.291 ± 0.168 χ^2/NDF : 118.1/93

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1732.630+/-0.500 χ^2/NDF : 5977913.9/20

Left Out: 1064.701+/-0.176 χ^2/NDF : 186511.5/24

Right Out: 1702.573+/-0.475 χ^2/NDF : 7148528.8/24

Left In: 1066.255+/-0.182 χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126 χ^2/NDF : 350781.3/47

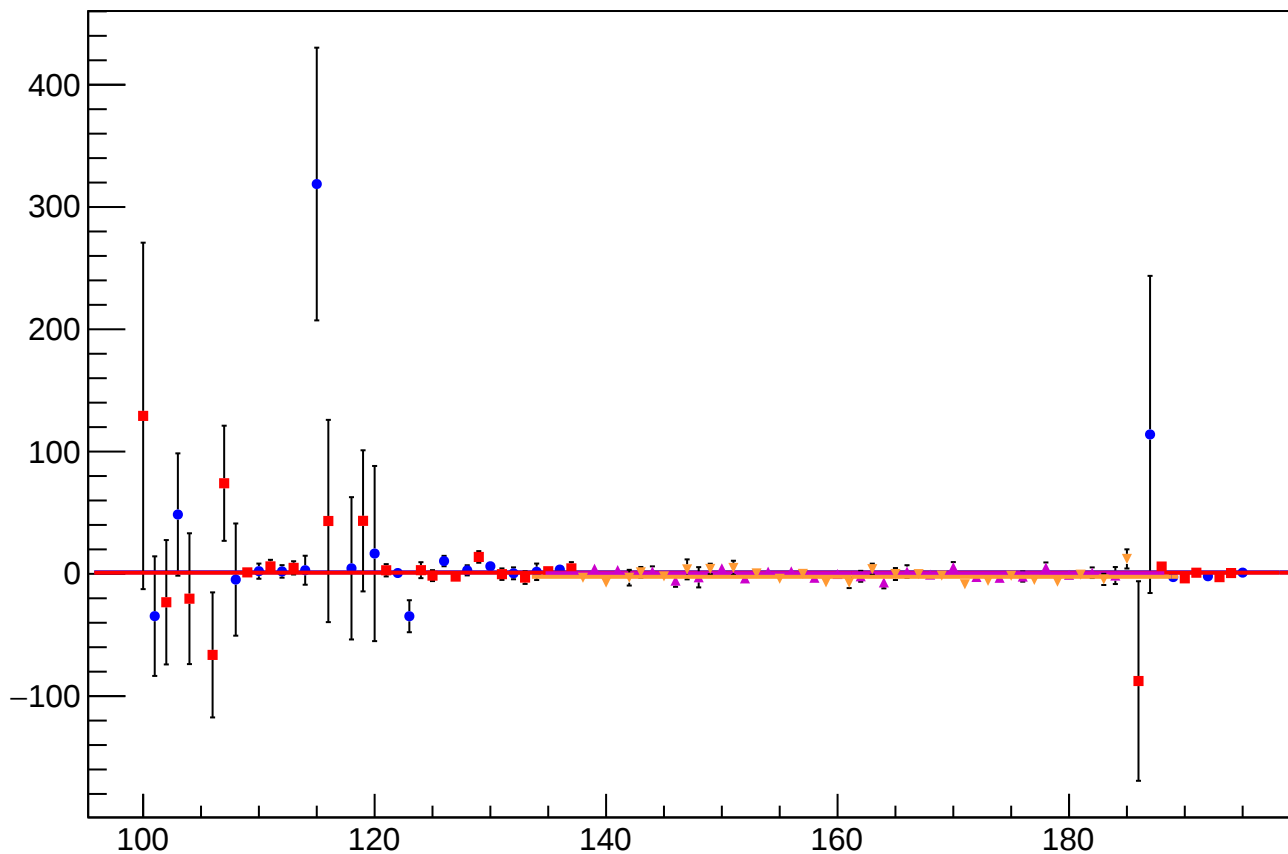
Right: 1716.813+/-0.344 χ^2/NDF : 13128342.3/45

In: 1143.915+/-0.171 χ^2/NDF : 7709617.2/43

Out: 1141.875+/-0.165 χ^2/NDF : 8922413.6/49

All: 1142.860+/-0.119 χ^2/NDF : 16632104.5/99

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 1.247 ± 0.957 $\chi^2/\text{NDF}: 29.0/20$

Left Out: -2.422 ± 0.811 $\chi^2/\text{NDF}: 21.2/24$

Right Out: 0.944 ± 0.890 $\chi^2/\text{NDF}: 24.8/24$

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

Left: -1.033 ± 0.584 $\chi^2/\text{NDF}: 42.8/47$

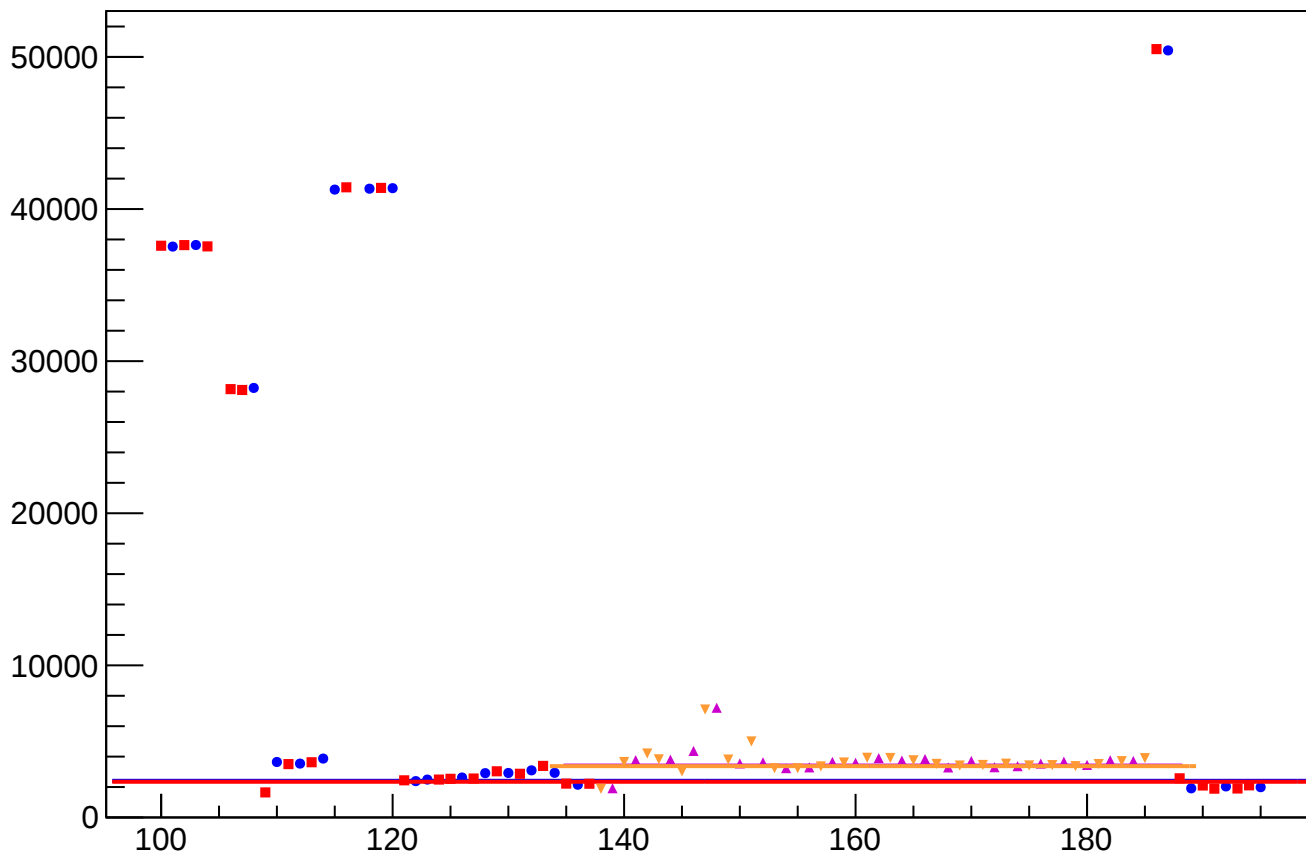
Right: 1.085 ± 0.652 $\chi^2/\text{NDF}: 53.8/45$

In: 0.809 ± 0.633 $\chi^2/\text{NDF}: 44.8/43$

Out: -0.895 ± 0.599 $\chi^2/\text{NDF}: 53.8/49$

All: -0.090 ± 0.435 $\chi^2/\text{NDF}: 102.5/93$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2409.630 $\pm$ 0.677 χ^2 /NDF: 5192718.7/20

Left Out: 3372.958 $\pm$ 0.573 χ^2 /NDF:1656864.7/24

Right Out: 2347.125 $\pm$ 0.629 χ^2 /NDF: 5770203.6/24

Left In: 3411.924 $\pm$ 0.596 χ^2 /NDF:1434523.7/22

Left: 3391.680 $\pm$ 0.413 χ^2 /NDF: 3093609.1/47

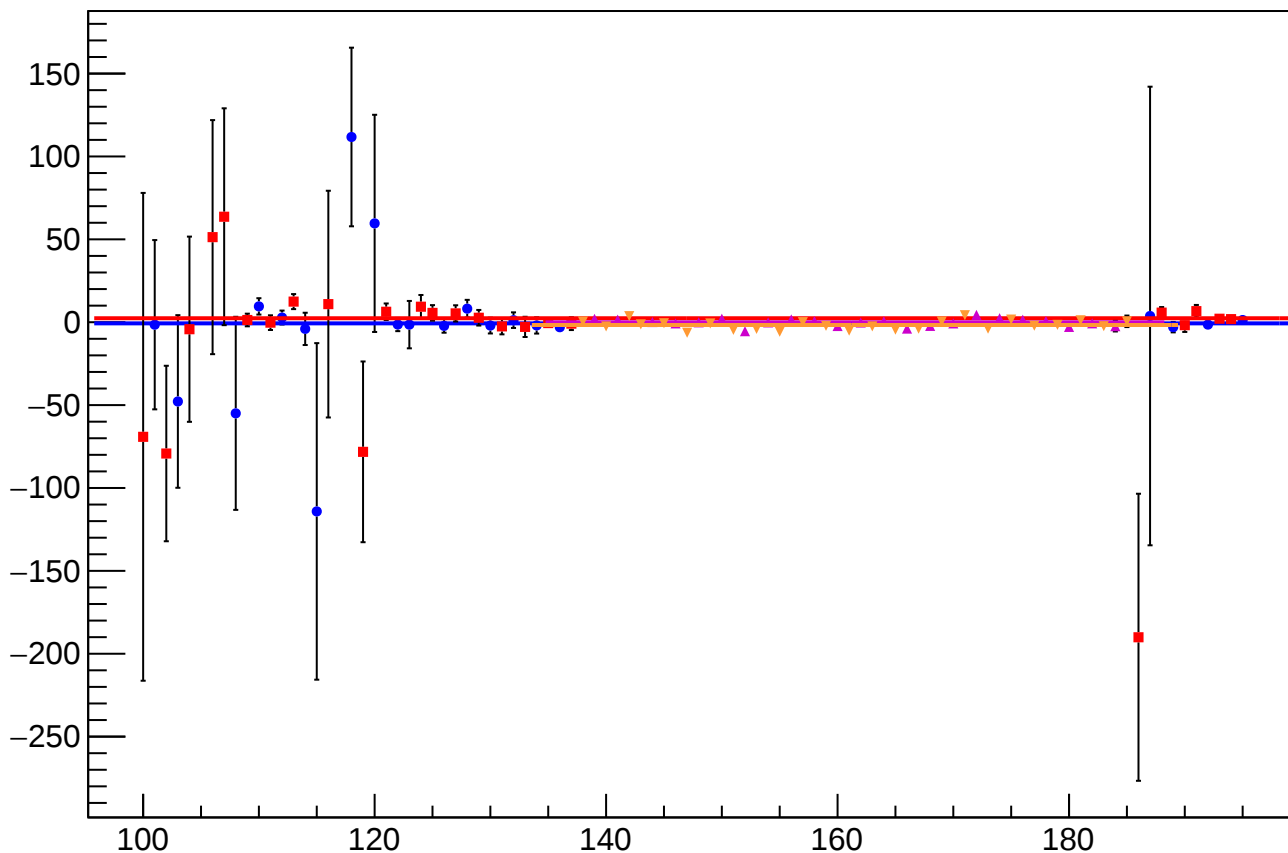
Right: 2376.098 $\pm$ 0.461 χ^2 /NDF: 10967496.7/45

In: 2974.234 $\pm$ 0.447 χ^2 /NDF:7862301.3/43

Out: 2907.764 $\pm$ 0.424 χ^2 /NDF:8879811.5/49

All: 2939.199 $\pm$ 0.308 χ^2 /NDF: 16753751.7/95

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.689 ± 0.925 χ^2/NDF : 19.3/20

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

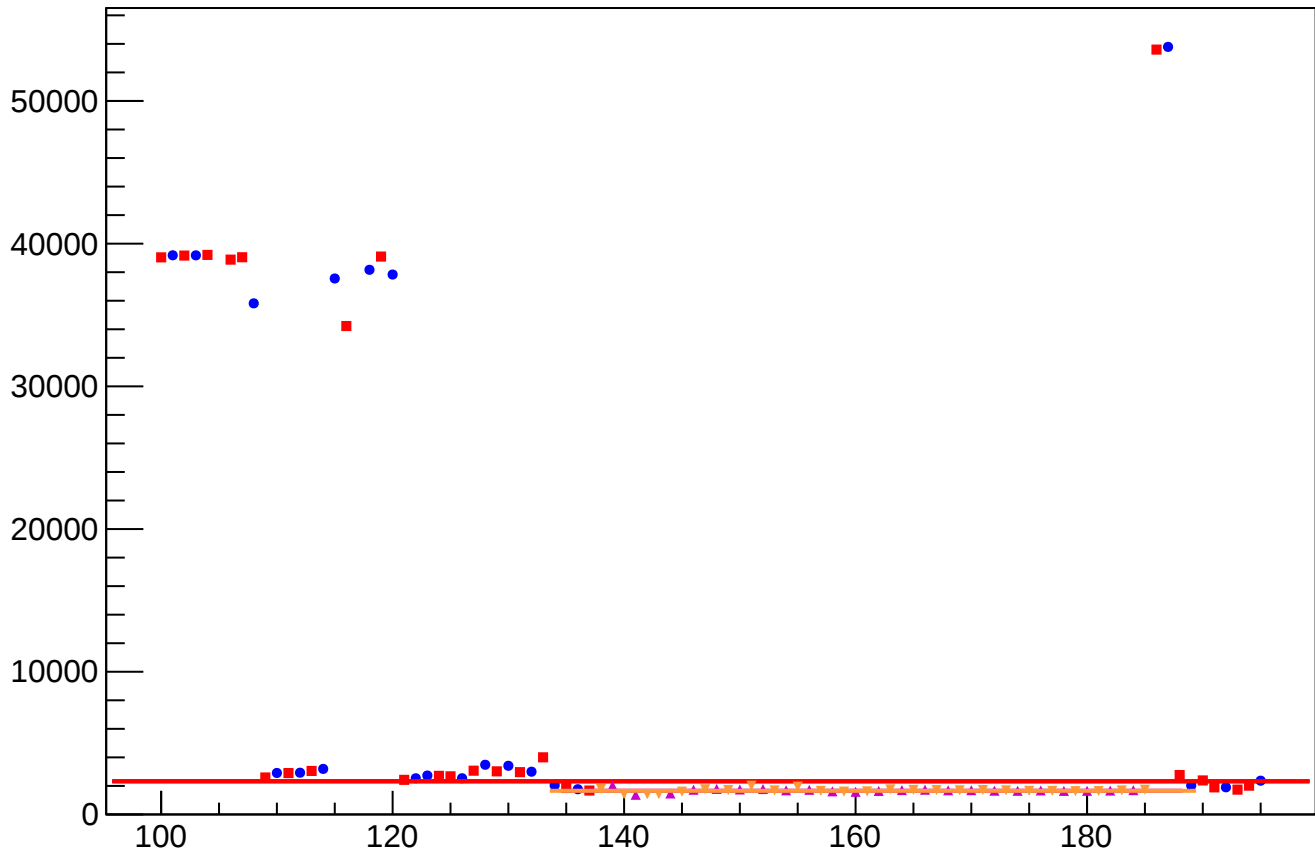
Right: 0.939 ± 0.636 χ^2/NDF : 51.2/45

In: -0.169 ± 0.368 χ^2/NDF : 47.9/43

Out: -1.004 ± 0.355 χ^2/NDF : 89.8/49

All: -0.602 ± 0.255 χ^2/NDF : 140.3/93

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2315.059+/-0.654 χ^2/NDF : 5311282.9/20

Left Out: 1657.770+/-0.274 χ^2/NDF : 223465.3/24

Right Out: 2335.735+/-0.619 χ^2/NDF : 5948187.1/24

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

Left: 1660.599+/-0.197 χ^2/NDF : 402543.2/47

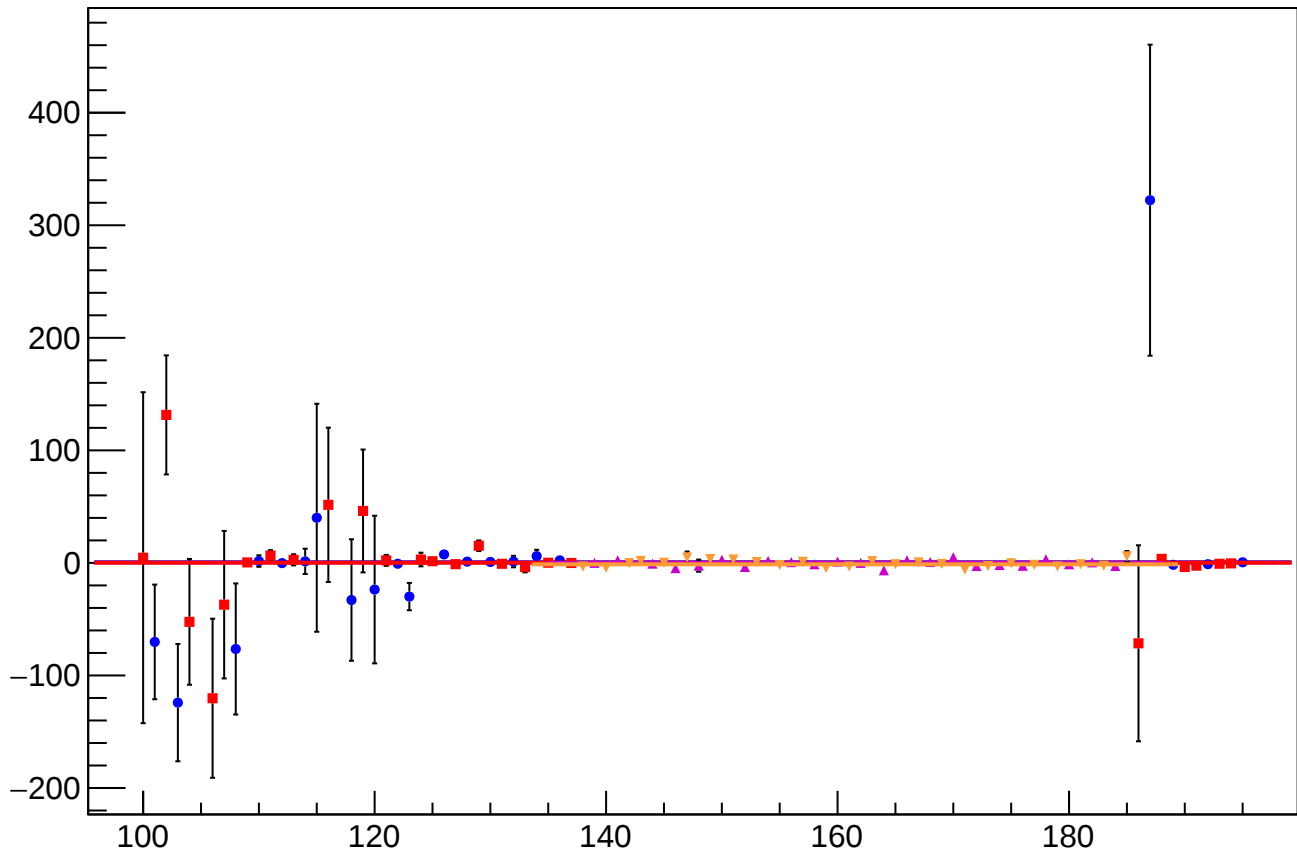
Right: 2325.973+/-0.450 χ^2/NDF : 11259997.0/45

In: 1766.619+/-0.260 χ^2/NDF : 6324474.7/43

Out: 1769.164+/-0.251 χ^2/NDF : 7174574.4/49

All: 1767.938+/-0.181 χ^2/NDF : 13499098.6/99

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.542 ± 0.797 $\chi^2/\text{NDF}: 28.8/20$

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 $\chi^2/\text{NDF}: 43.3/47$

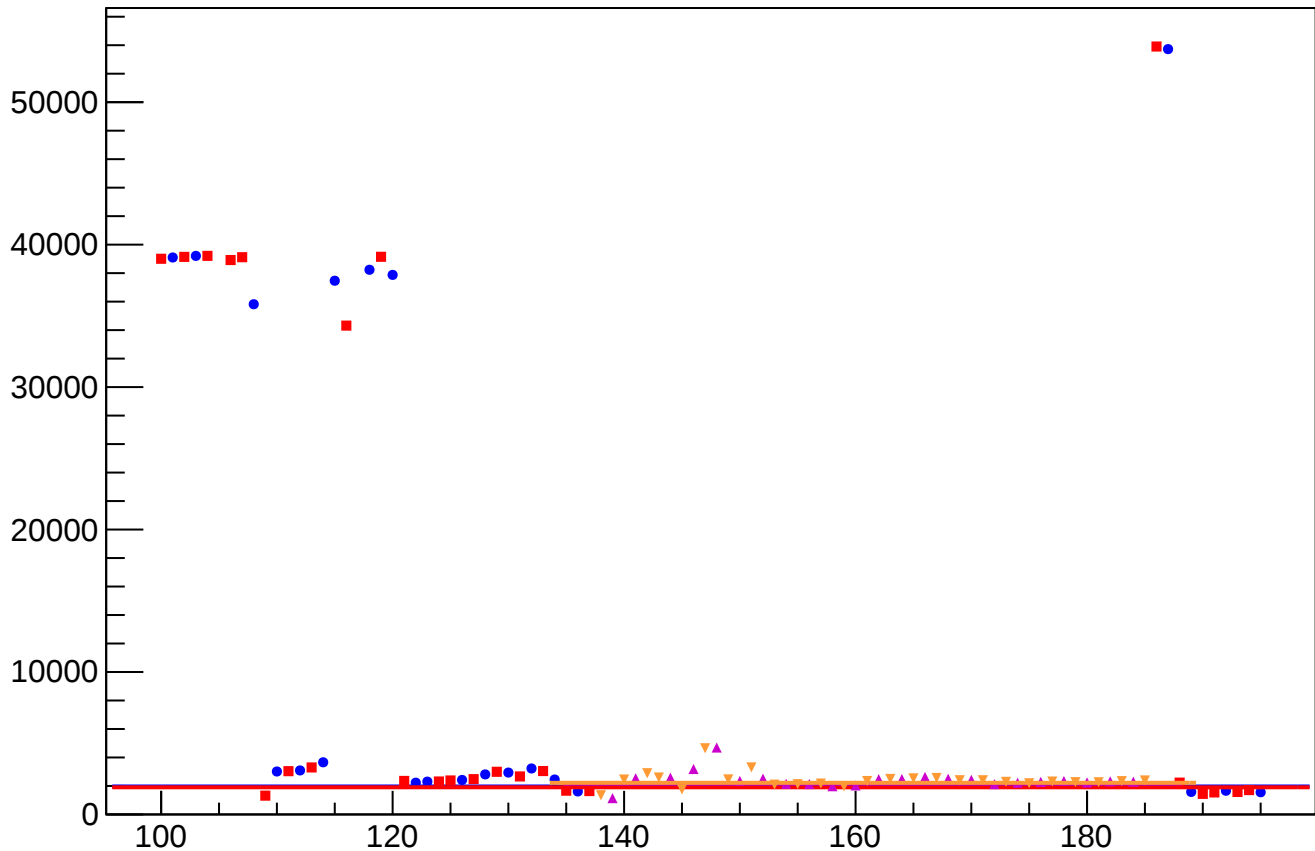
Right: 0.365 ± 0.542 $\chi^2/\text{NDF}: 59.6/45$

In: 0.104 ± 0.448 $\chi^2/\text{NDF}: 48.5/43$

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

All: -0.335 ± 0.311 $\chi^2/\text{NDF}: 105.4/93$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1963.309 $\pm$ 0.564 χ^2/NDF : 5716232.6/20

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

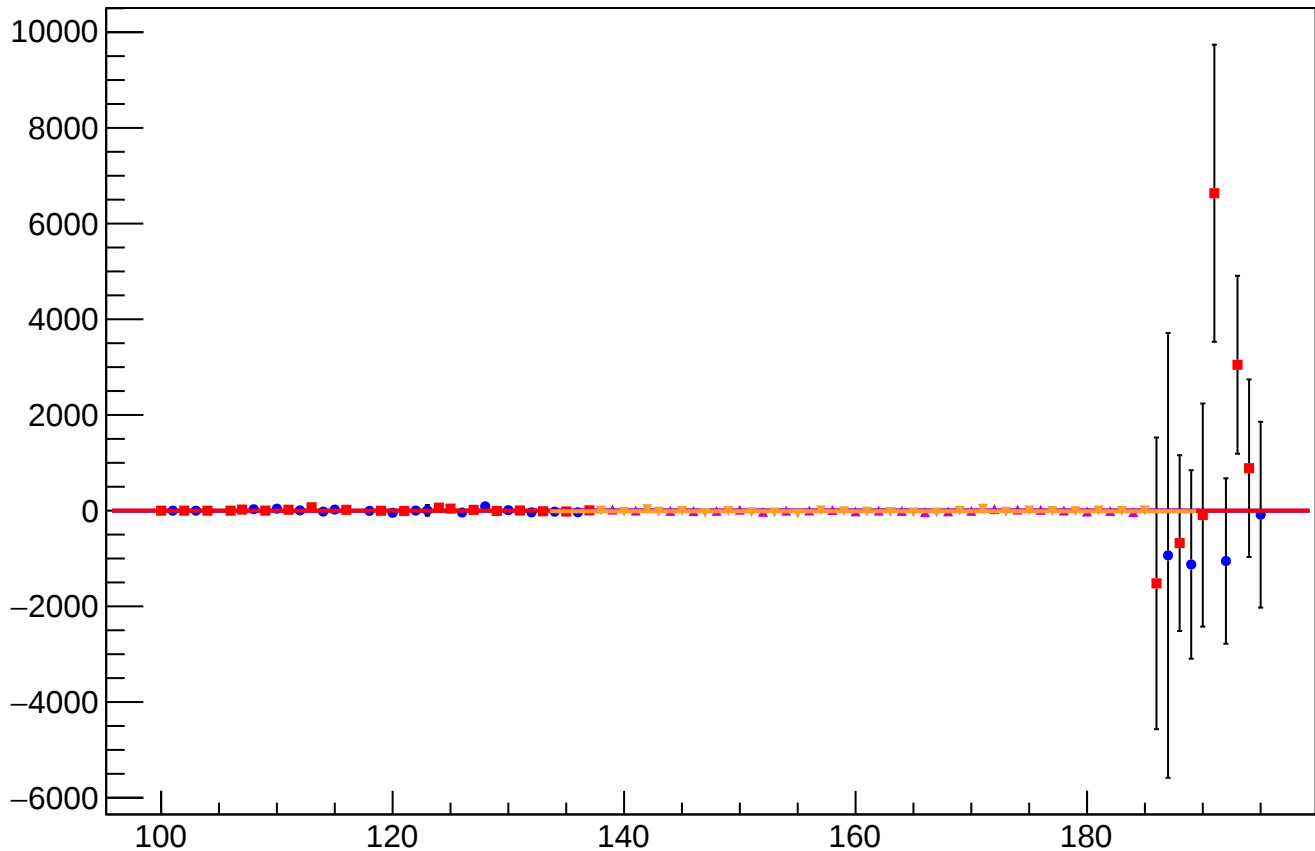
Right: 1932.788 $\pm$ 0.383 χ^2/NDF : 12055190.5/45

In: 2104.431 $\pm$ 0.317 χ^2/NDF :7782603.7/43

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

All: 2109.058 $\pm$ 0.220 χ^2/NDF : 15778507.8/95

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013+/-0.017 χ^2/NDF : 17.3/20

Left Out: -13.484+/-2.800 χ^2/NDF :58.7/24

Right Out: -0.003+/-0.016 χ^2/NDF : 23.4/24

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

Left: -6.796+/-2.020 χ^2/NDF : 99.5/47

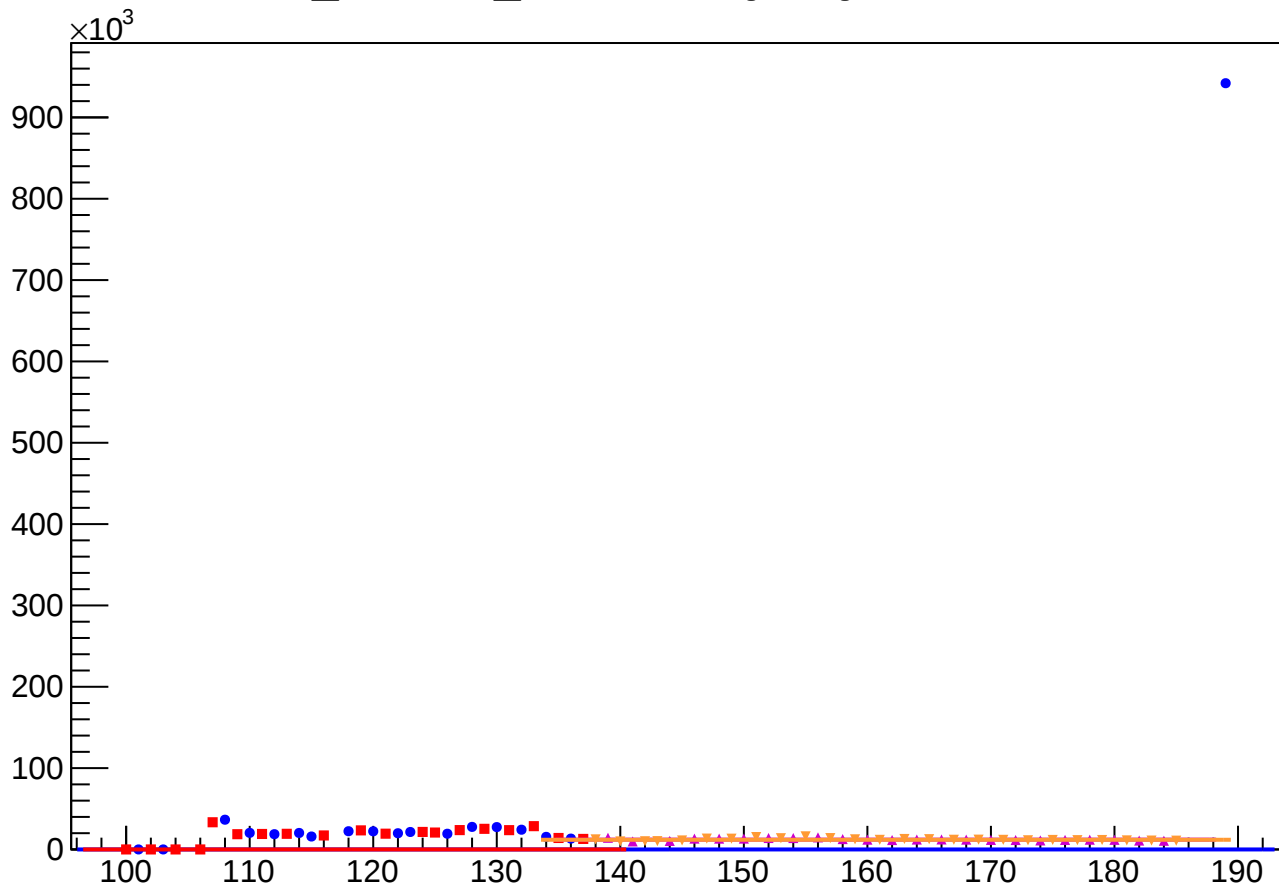
Right: 0.004+/-0.012 χ^2/NDF : 41.2/45

In: 0.013+/-0.017 χ^2/NDF :46.3/43

Out: -0.004+/-0.016 χ^2/NDF :105.2/49

All: 0.004+/-0.012 χ^2/NDF : 152.1/93

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

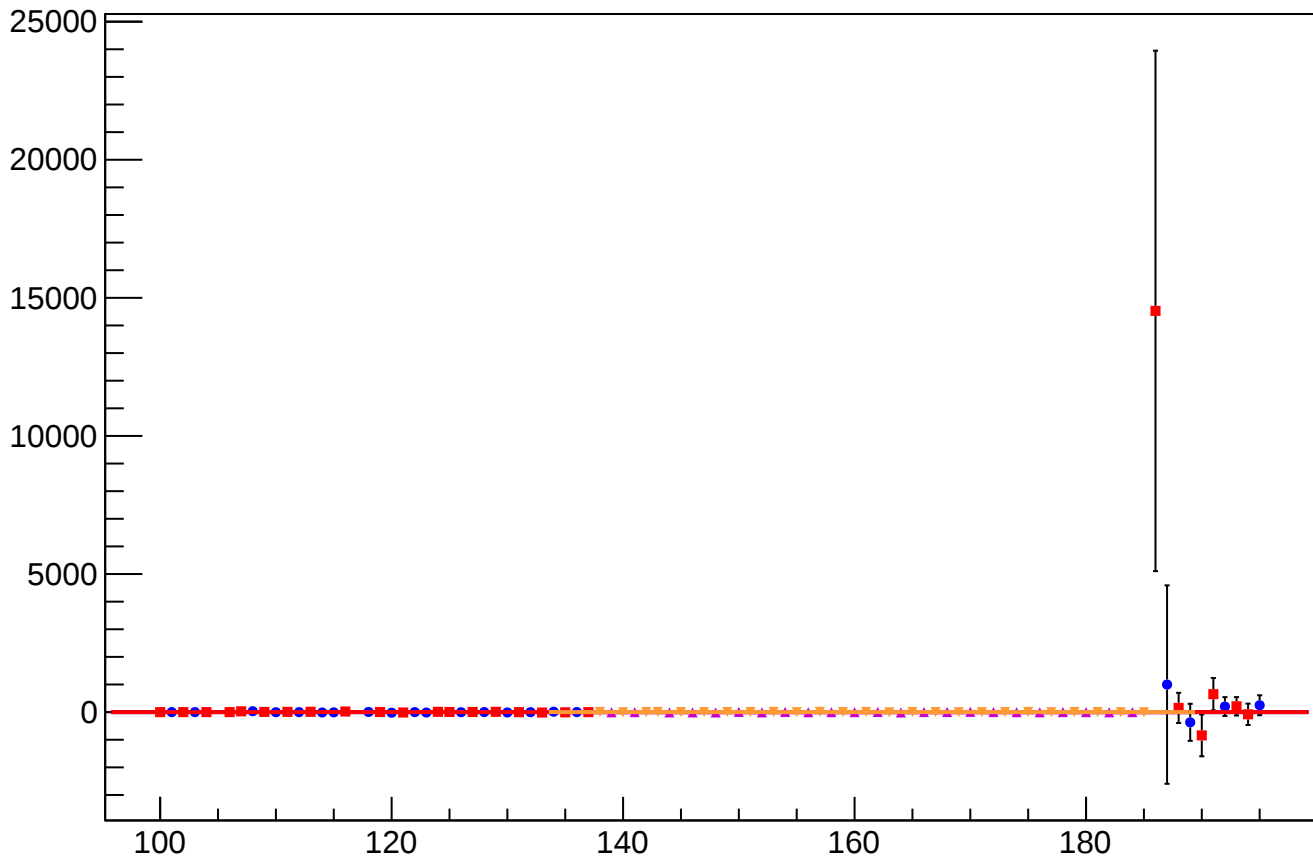
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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 ± 0.009 $\chi^2/\text{NDF}: 14.1/20$

Left Out: 1.649 ± 1.022 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 24.1/24$

Left In: -0.939 ± 1.049 $\chi^2/\text{NDF}: 35.6/22$

Left: 0.388 ± 0.732 $\chi^2/\text{NDF}: 57.1/47$

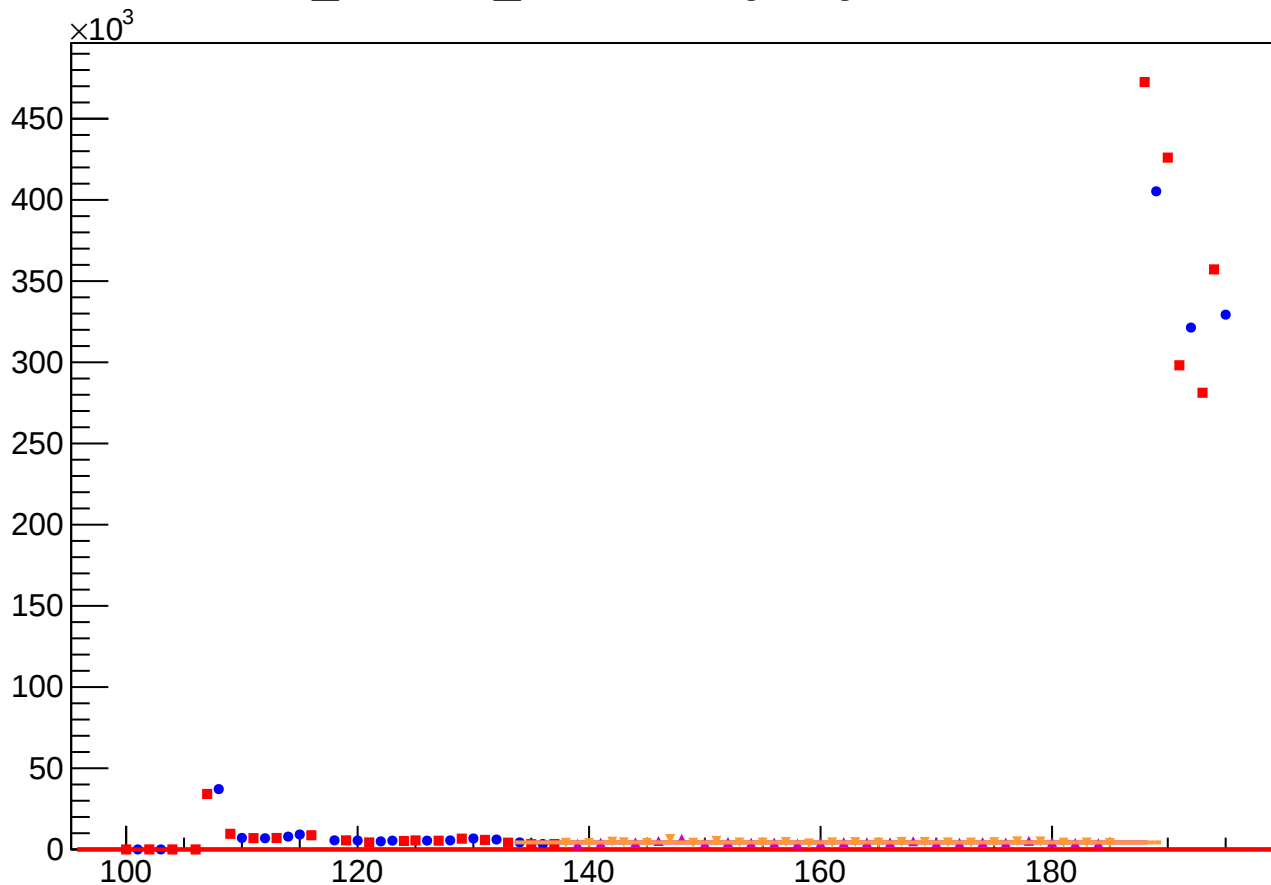
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 39.6/45$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 50.5/43$

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 45.1/49$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 97.0/93$

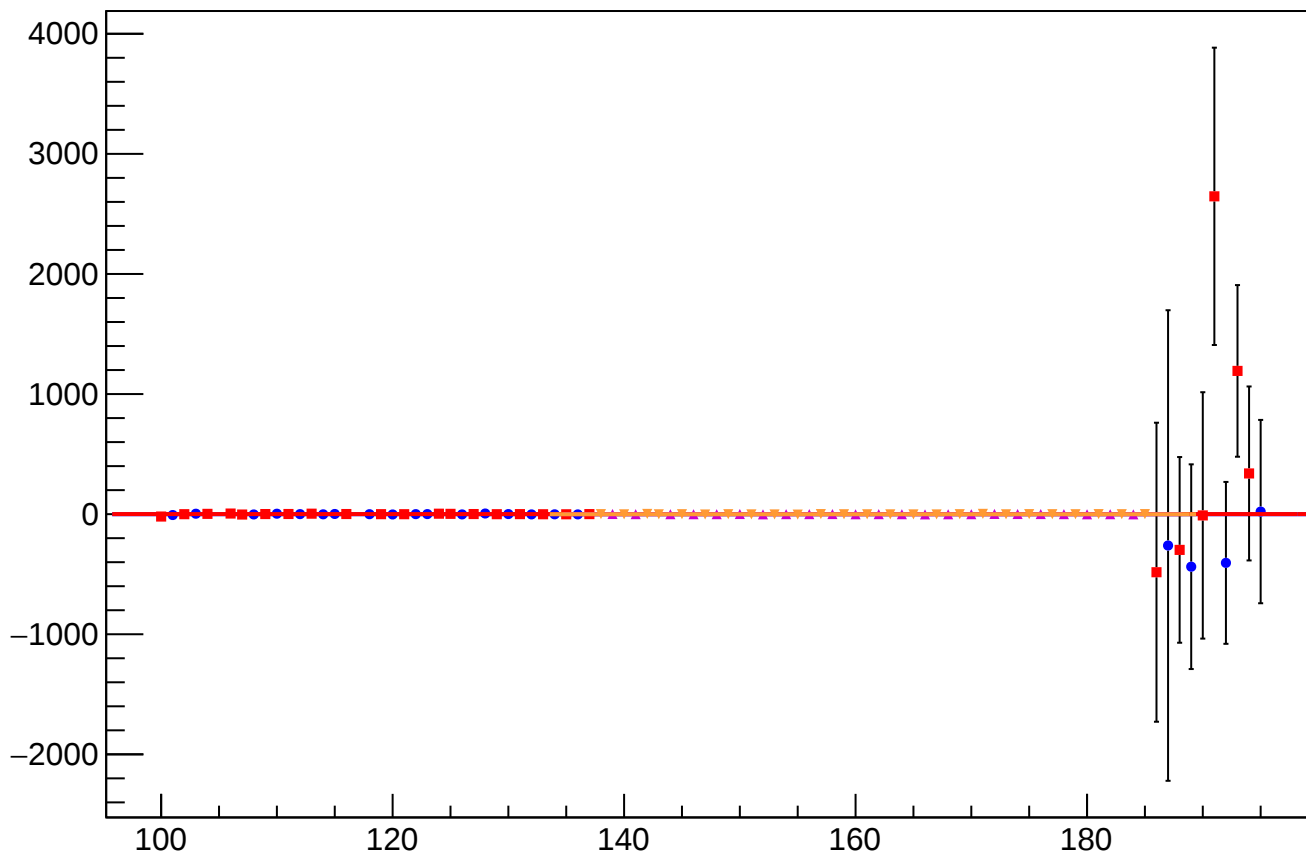
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 15210994.7/19
 Left Out: 4349.005 ± 0.723 χ^2/NDF : 383895.7/24
 Right Out: 9.855 ± 0.006 χ^2/NDF : 16860506.4/23
 Left In: 4321.572 ± 0.741 χ^2/NDF : 514603.2/22

Left: 4335.639 ± 0.518 χ^2/NDF : 899200.9/47
 Right: 9.894 ± 0.004 χ^2/NDF : 32071590.7/43
 In: 10.271 ± 0.007 χ^2/NDF : 49542735.5/42
 Out: 10.165 ± 0.006 χ^2/NDF : 53289671.6/48
 All: 10.215 ± 0.004 χ^2/NDF : 102832547.5/92

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 χ^2/NDF : 23.3/20

Left Out: -0.775 ± 0.165 χ^2/NDF : 58.5/24

Right Out: 0.639 ± 0.501 χ^2/NDF : 20.9/24

Left In: 0.018 ± 0.171 χ^2/NDF : 29.4/22

Left: -0.393 ± 0.119 χ^2/NDF : 99.1/47

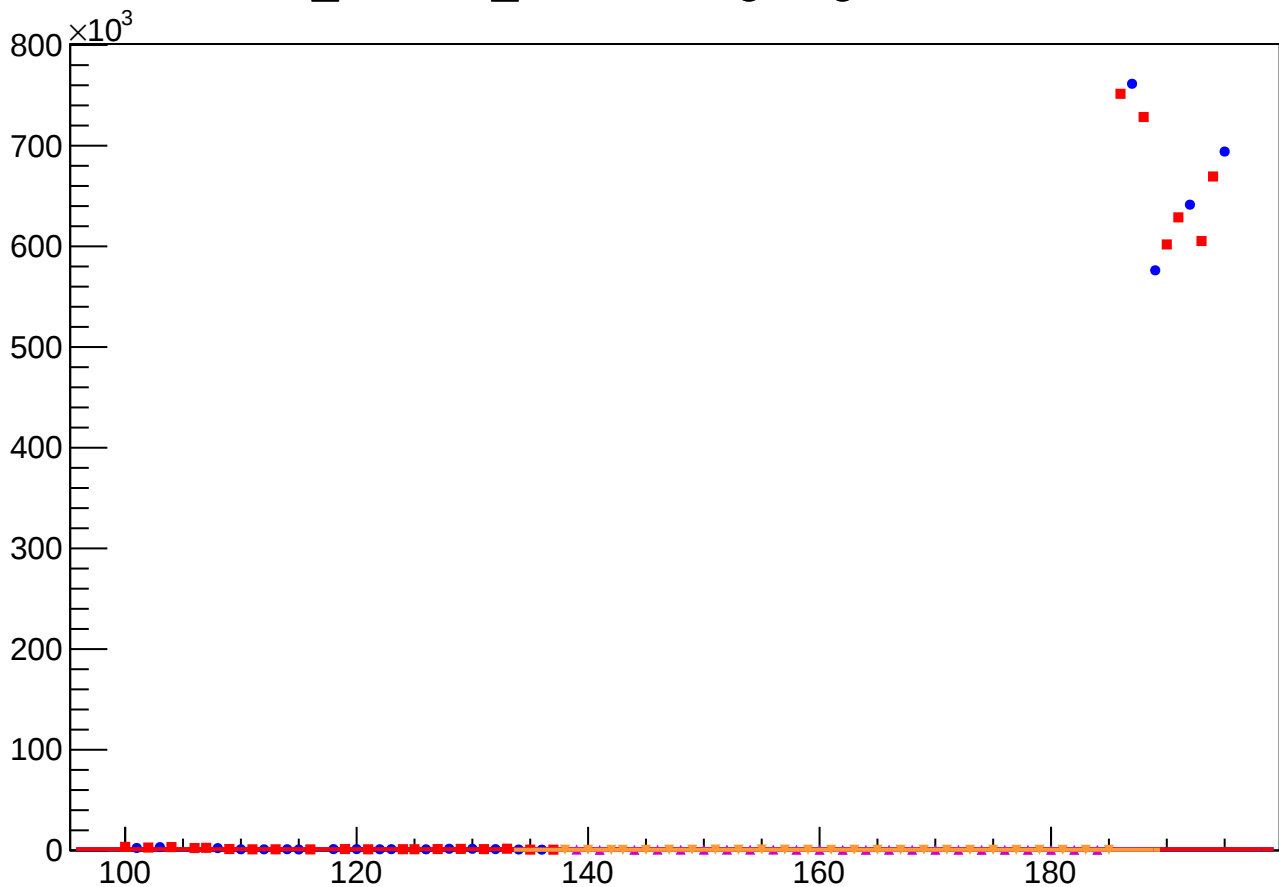
Right: -0.063 ± 0.348 χ^2/NDF : 48.1/45

In: -0.063 ± 0.161 χ^2/NDF : 54.8/43

Out: -0.637 ± 0.156 χ^2/NDF : 86.6/49

All: -0.359 ± 0.112 χ^2/NDF : 148.0/93

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.957+/-0.342 χ^2/NDF : 6236927.9/20

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

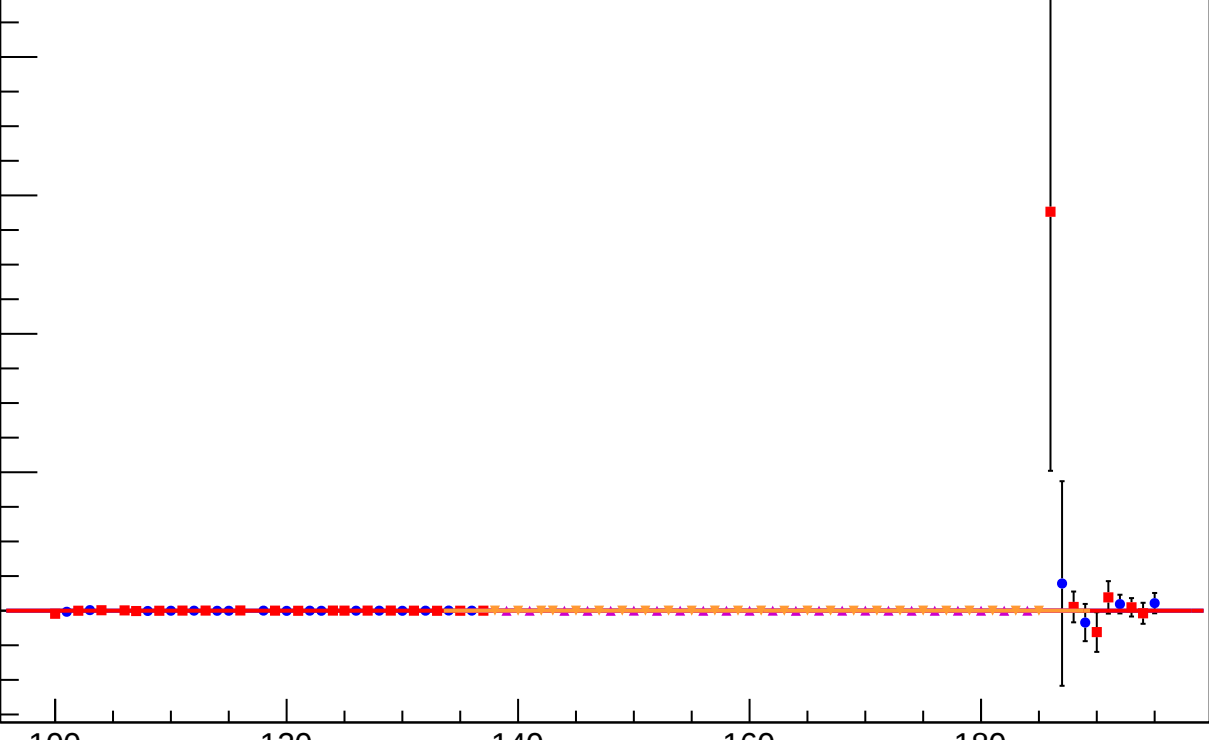
Left: 703.867+/-0.084 χ^2/NDF : 726141.0/47

Right: 1207.065+/-0.246 χ^2/NDF : 14711044.3/45

In: 758.175+/-0.114 χ^2/NDF : 8187603.8/43

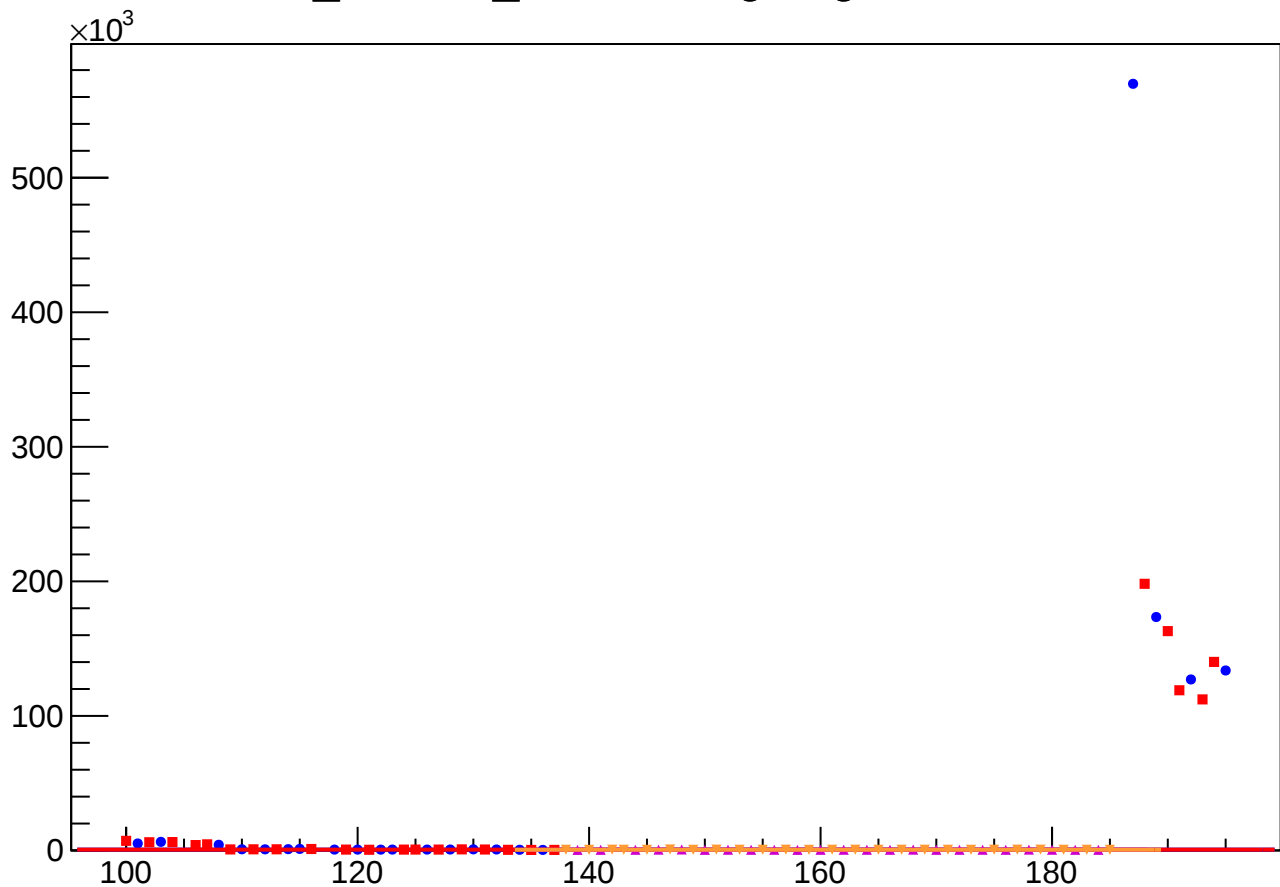
Out: 754.288+/-0.111 χ^2/NDF : 10997531.3/49

All: 756.175+/-0.079 χ^2/NDF : 19185735.1/93

[illegible]

All: 0.018 ± 0.080 χ^2/NDF : 104.3/93

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 610.526 $\pm$ 0.190 χ^2 /NDF: 7659116.7/20

Left Out: 522.220 $\pm$ 0.087 χ^2 /NDF: 330405.3/24

Right Out: 600.253 $\pm$ 0.187 χ^2 /NDF: 9383107.8/23

Left In: 520.700 $\pm$ 0.089 χ^2 /NDF: 427720.5/22

Left: 521.481 $\pm$ 0.062 χ^2 /NDF: 758275.0/47

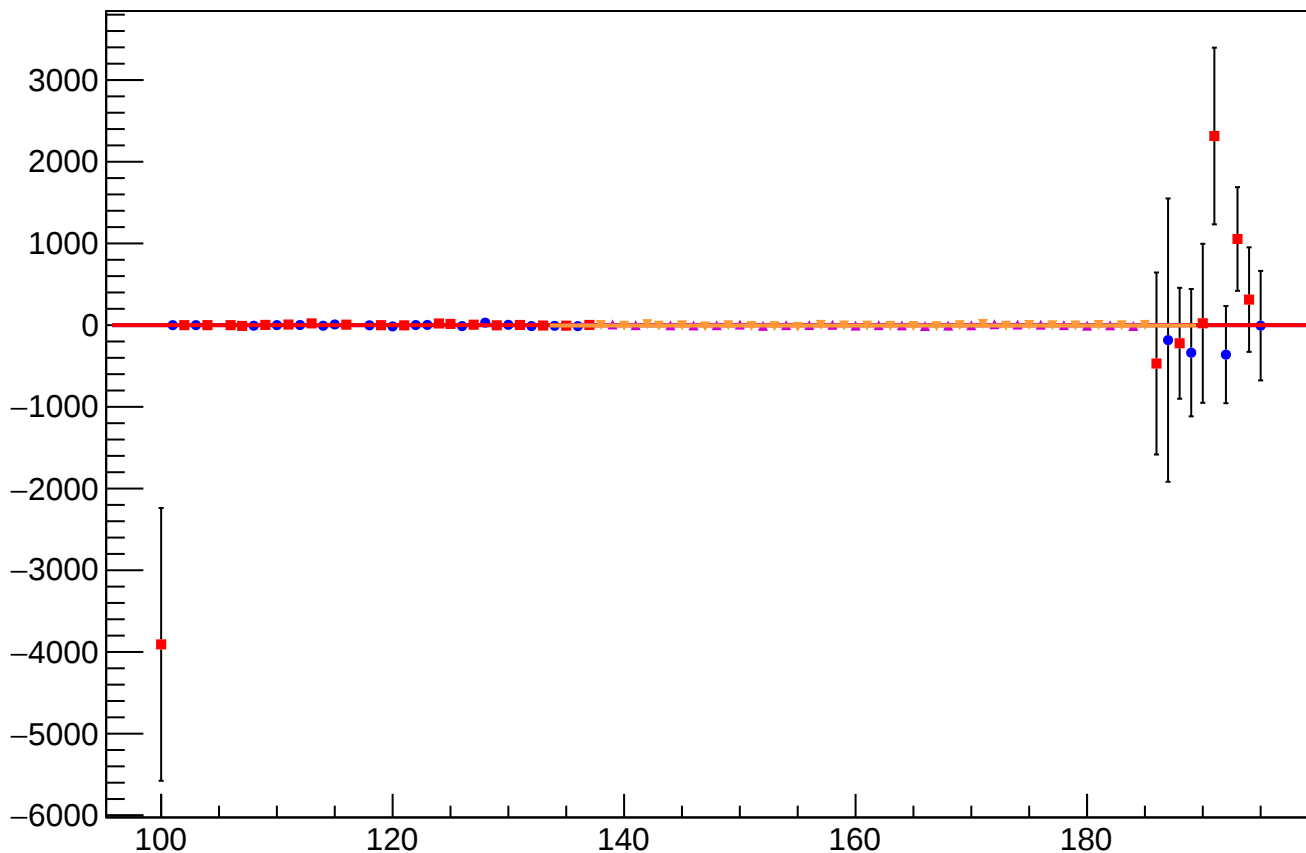
Right: 605.301 $\pm$ 0.133 χ^2 /NDF: 17043708.2/44

In: 536.893 $\pm$ 0.081 χ^2 /NDF: 8269652.8/43

Out: 536.028 $\pm$ 0.079 χ^2 /NDF: 9856874.2/48

All: 536.449 $\pm$ 0.056 χ^2 /NDF: 18126585.8/92

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 16.5/20$

Left Out: -4.480 ± 0.957 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.027 ± 0.020 $\chi^2/\text{NDF}: 25.3/24$

Left In: 0.183 ± 0.994 $\chi^2/\text{NDF}: 29.5/22$

Left: -2.236 ± 0.689 $\chi^2/\text{NDF}: 99.3/47$

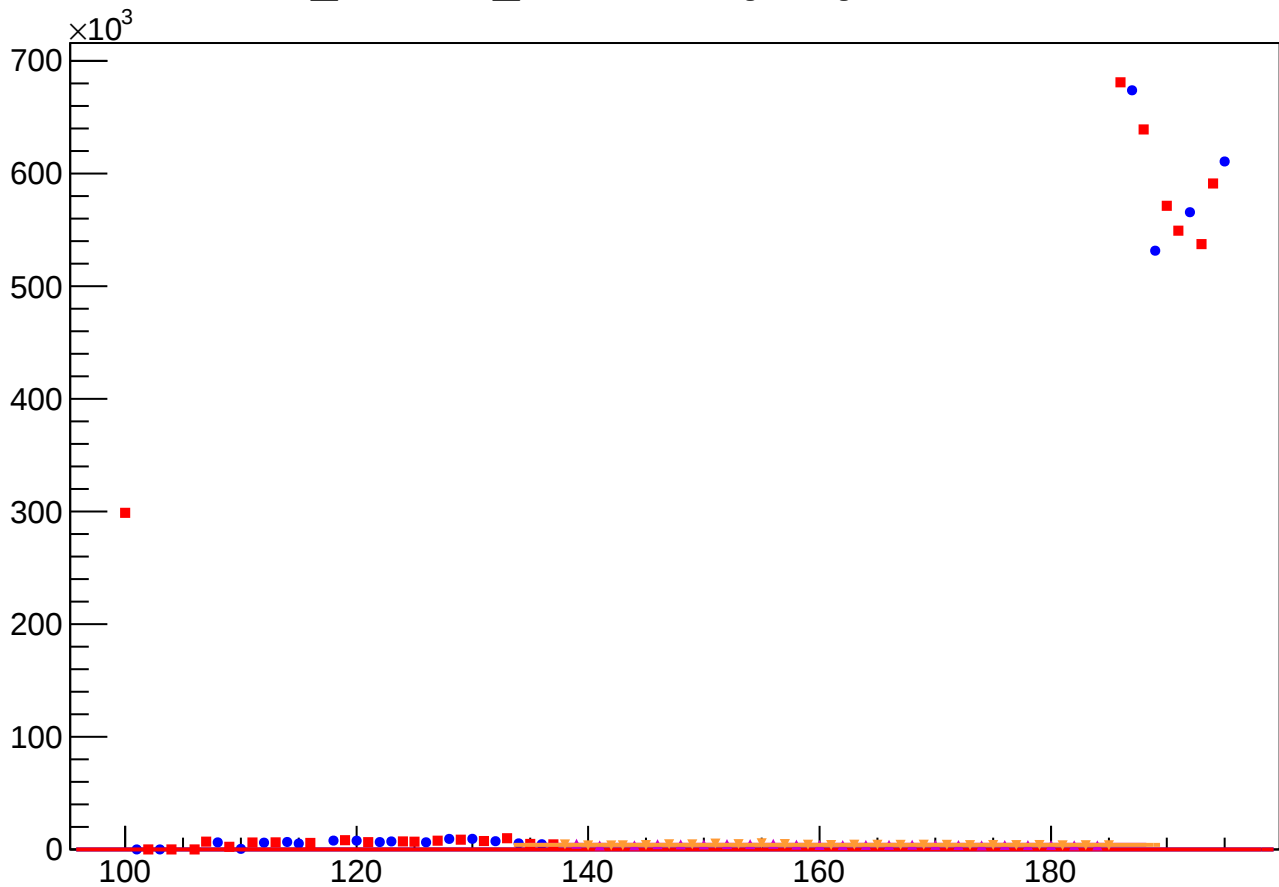
Right: 0.004 ± 0.014 $\chi^2/\text{NDF}: 44.7/45$

In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 46.1/43$

Out: 0.025 ± 0.020 $\chi^2/\text{NDF}: 105.9/49$

All: 0.003 ± 0.014 $\chi^2/\text{NDF}: 154.6/93$

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341+/-0.015 χ^2 /NDF: 15161336.3/20

Left Out: 4075.147+/-0.677 χ^2 /NDF:417511.0/24

Right Out: 17.270+/-0.014 χ^2 /NDF: 17634392.1/24

Left In: 4113.993+/-0.703 χ^2 /NDF:349160.6/22

Left: 4093.835+/-0.488 χ^2 /NDF: 768256.5/47

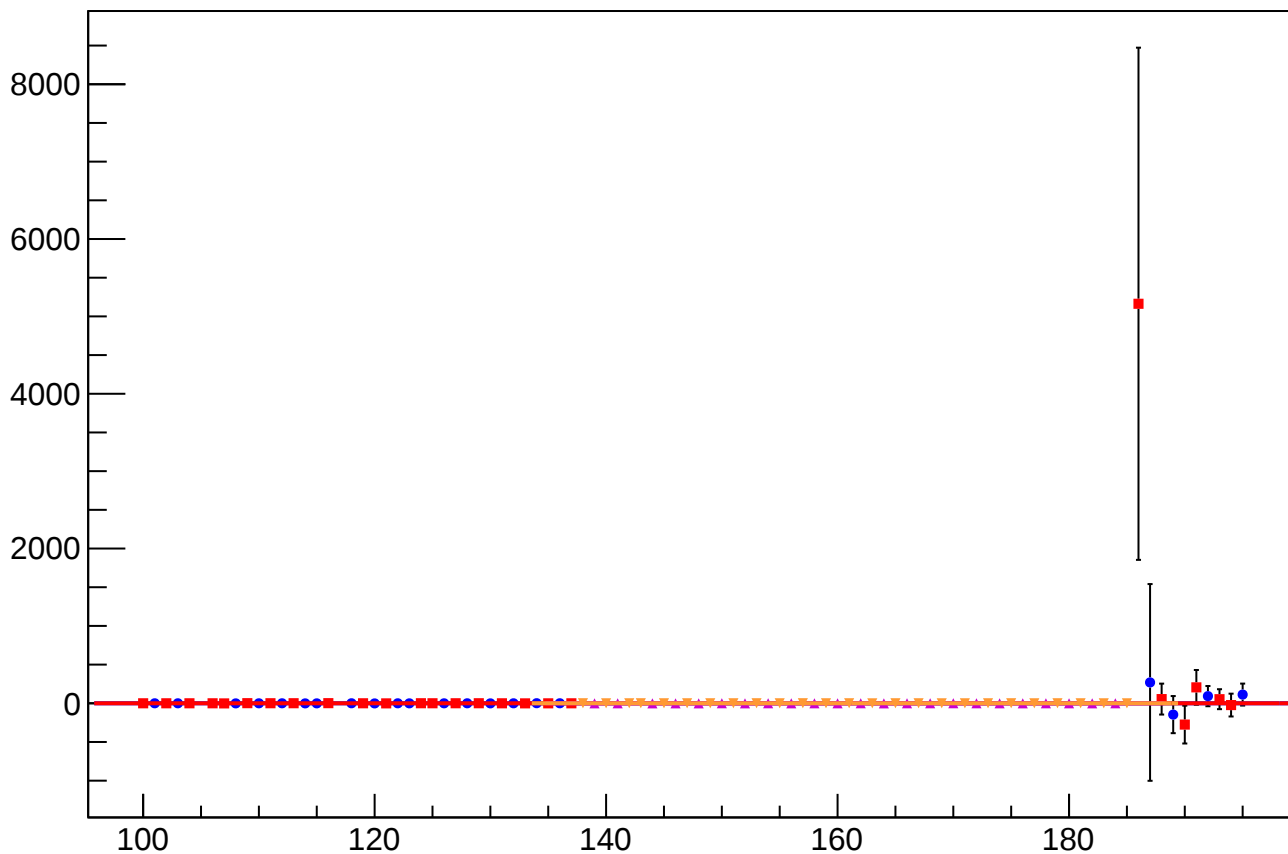
Right: 17.304+/-0.010 χ^2 /NDF: 32795740.7/45

In: 19.133+/-0.015 χ^2 /NDF:49463843.9/43

Out: 19.001+/-0.014 χ^2 /NDF:53987410.4/49

All: 19.064+/-0.010 χ^2 /NDF: 103451296.2/93

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 15.2/20

Left Out: 0.148 $\pm$ 0.076 χ^2 /NDF:17.3/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.0/24

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

Left: 0.038 $\pm$ 0.055 χ^2 /NDF: 56.3/47

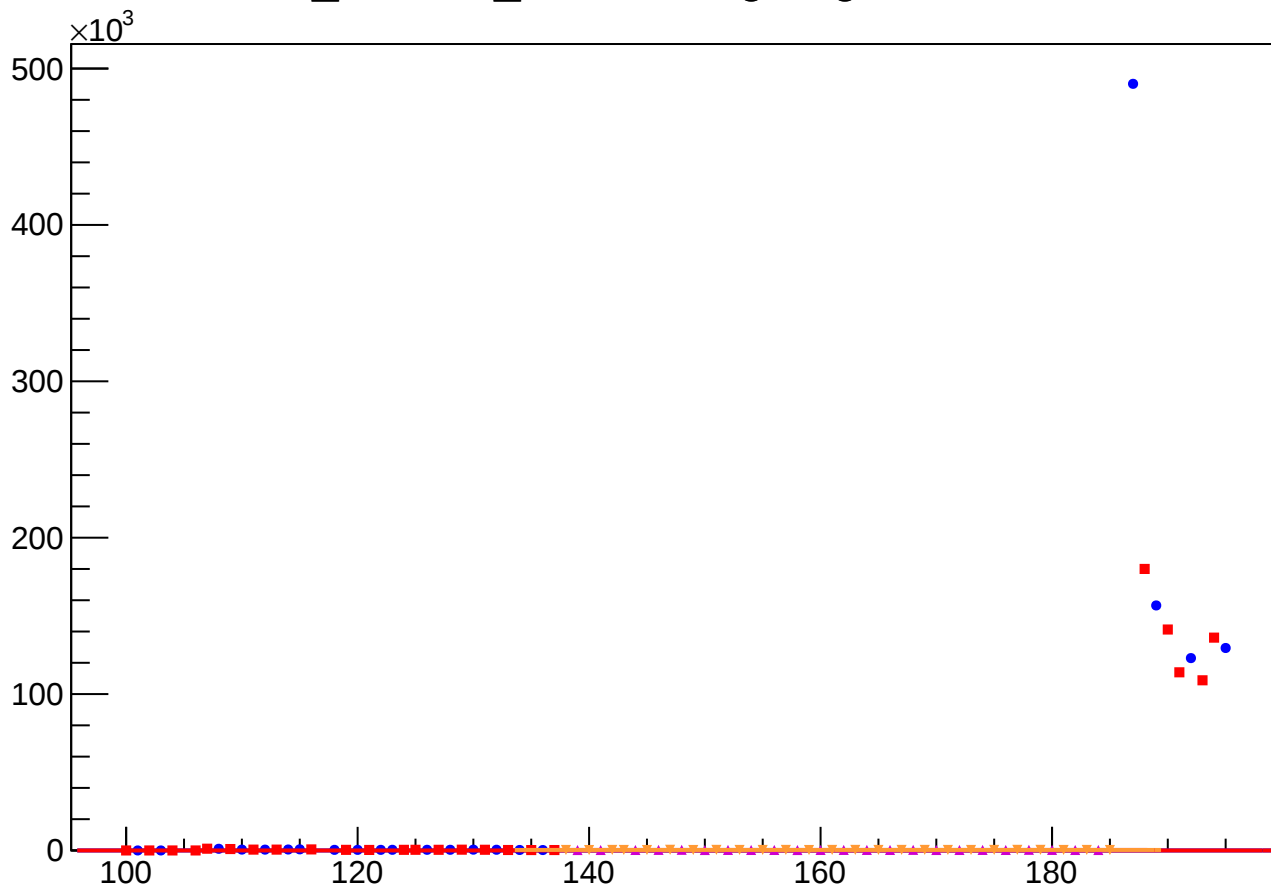
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 38.3/45

In: 0.000 $\pm$ 0.002 χ^2 /NDF:50.8/43

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.1/49

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 95.0/93

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 15594889.7/20

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

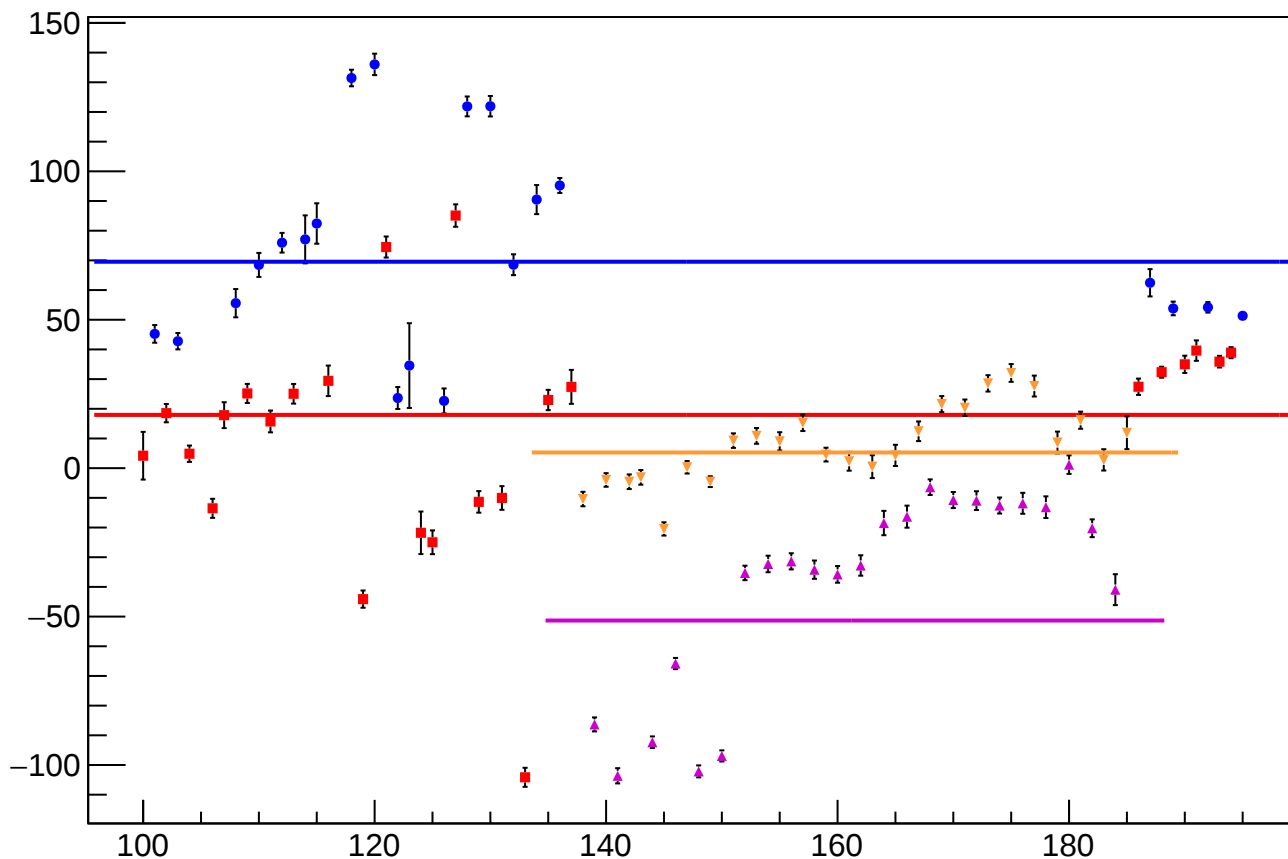
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 32230375.1/44

In: 1.913 $\pm$ 0.001 χ^2 /NDF:49737035.4/43

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

All: 1.925 $\pm$ 0.001 χ^2 /NDF: 102579968.0/92

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 69.546+/-0.676 χ^2/NDF : 2134.8/20

Left Out: 5.276+/-0.544 χ^2/NDF : 556.2/24

Right Out: 17.935+/-0.622 χ^2/NDF : 3238.5/24

Left In: -51.328+/-0.558 χ^2/NDF : 4257.8/22

Left: -22.298+/-0.390 χ^2/NDF : 10084.6/47

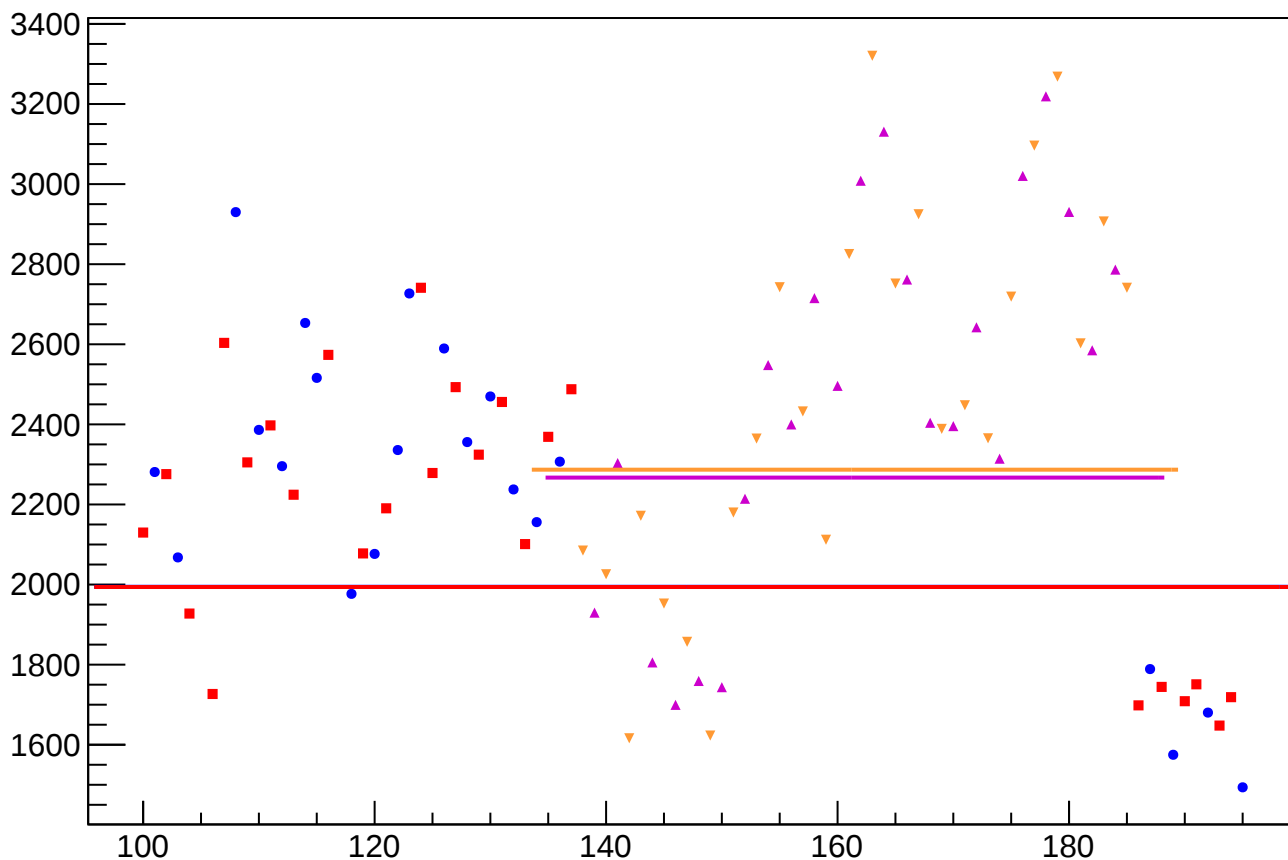
Right: 41.599+/-0.458 χ^2/NDF : 8527.6/45

In: -2.326+/-0.431 χ^2/NDF : 25391.4/43

Out: 10.762+/-0.410 χ^2/NDF : 4029.2/49

All: 4.544+/-0.297 χ^2/NDF : 29905.6/93

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1994.433 $\pm$ 0.478 χ^2 /NDF: 639479.9/20

Left Out: 2286.871 $\pm$ 0.385 χ^2 /NDF:1360490.8/24

Right Out: 1993.916 $\pm$ 0.440 χ^2 /NDF: 503579.5/24

Left In: 2267.097 $\pm$ 0.395 χ^2 /NDF:1313364.4/22

Left: 2277.239 $\pm$ 0.276 χ^2 /NDF: 2675141.7/47

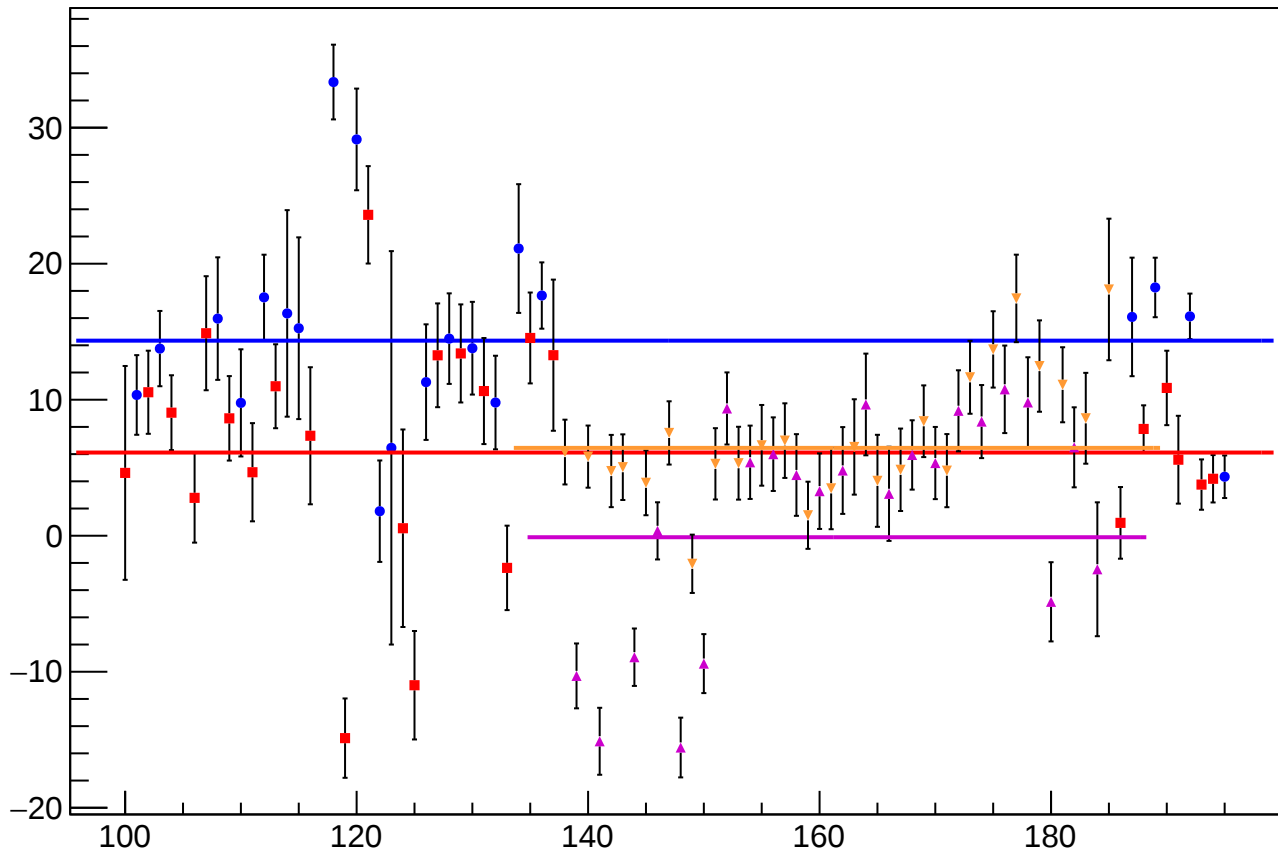
Right: 1994.153 $\pm$ 0.324 χ^2 /NDF: 1143060.0/45

In: 2156.560 $\pm$ 0.304 χ^2 /NDF:2146197.1/43

Out: 2159.912 $\pm$ 0.290 χ^2 /NDF:2115269.6/49

All: 2158.319 $\pm$ 0.210 χ^2 /NDF: 4261530.3/93

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 14.342 $\pm$ 0.654 χ^2/NDF : 131.2/20

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

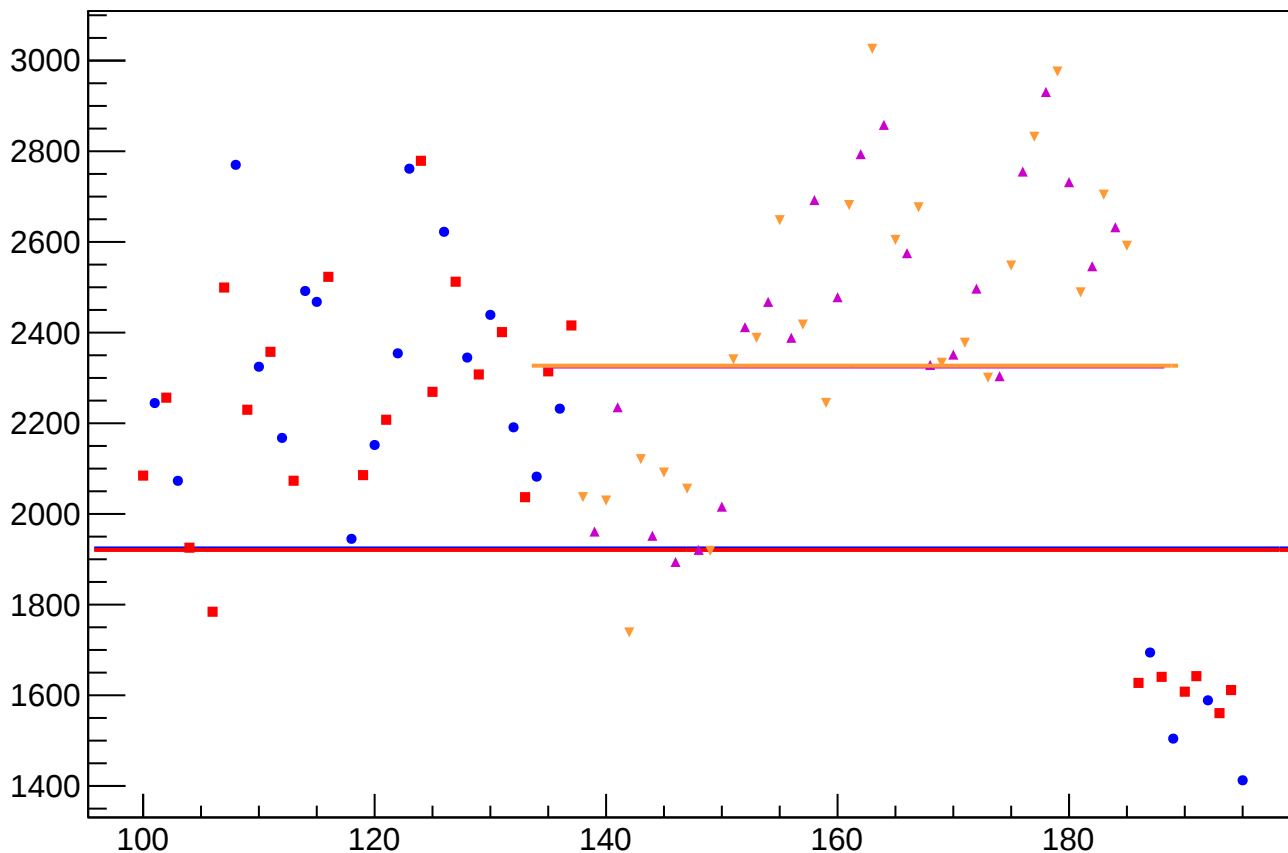
Right: 9.881 $\pm$ 0.442 χ^2/NDF : 358.8/45

In: 6.069 $\pm$ 0.428 χ^2/NDF : 645.3/43

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

All: 6.192 $\pm$ 0.294 χ^2/NDF : 846.3/93

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1923.916 ± 0.462 χ^2/NDF : 749103.9/20

Left Out: 2327.044 ± 0.387 χ^2/NDF : 646706.7/24

Right Out: 1920.597 ± 0.425 χ^2/NDF : 616146.3/24

Left In: 2325.175 ± 0.400 χ^2/NDF : 610729.2/22

Left: 2326.139 ± 0.278 χ^2/NDF : 1257447.2/47

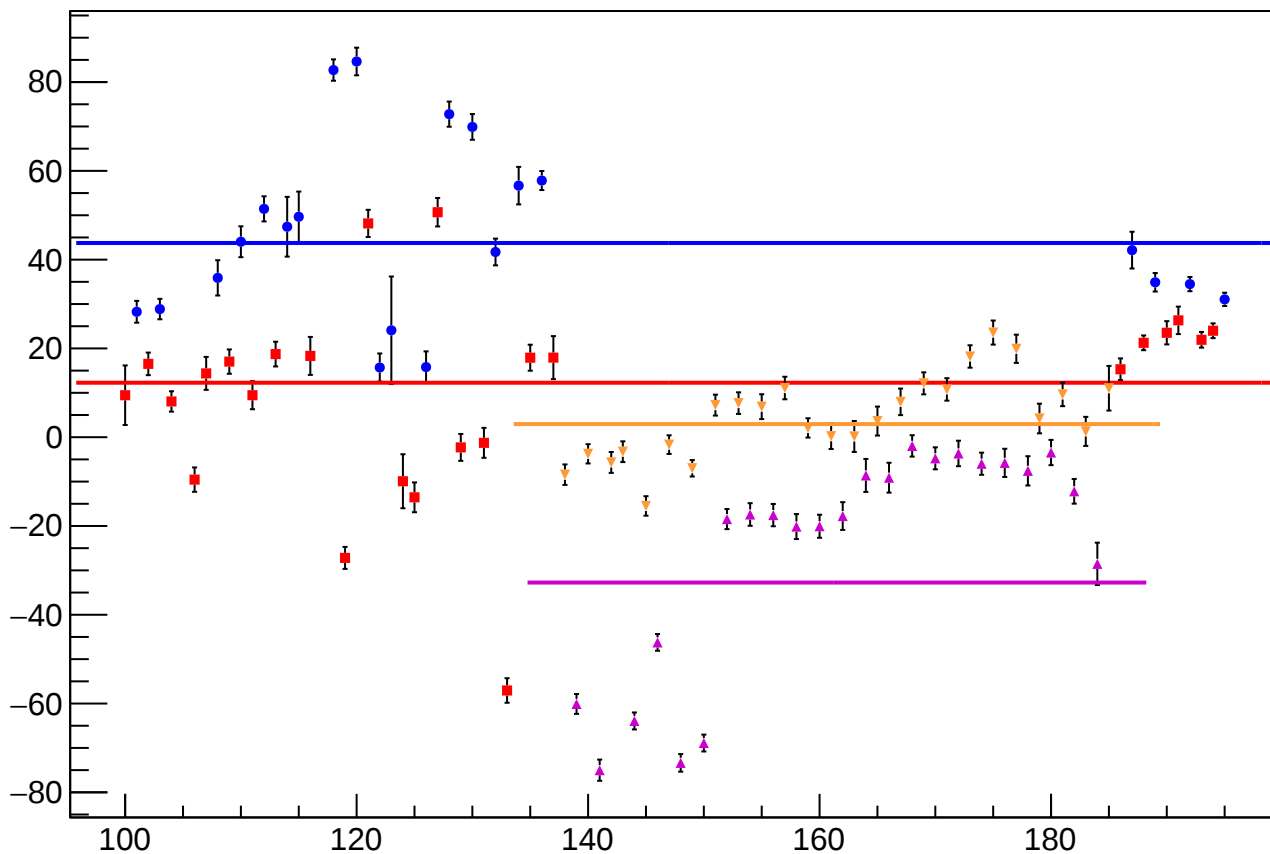
Right: 1922.116 ± 0.313 χ^2/NDF : 1365278.2/45

In: 2153.605 ± 0.302 χ^2/NDF : 1790914.3/43

Out: 2142.613 ± 0.286 χ^2/NDF : 1762895.7/49

All: 2147.807 ± 0.208 χ^2/NDF : 3554507.3/93

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 43.755 $\pm$ 0.588 χ^2/NDF : 1035.7/20

Left Out: 2.952 $\pm$ 0.512 χ^2/NDF :337.8/24

Right Out: 12.276 $\pm$ 0.541 χ^2/NDF : 1511.1/24

Left In: -32.745 $\pm$ 0.526 χ^2/NDF :2632.5/22

Left: -14.409 $\pm$ 0.367 χ^2/NDF : 5335.1/47

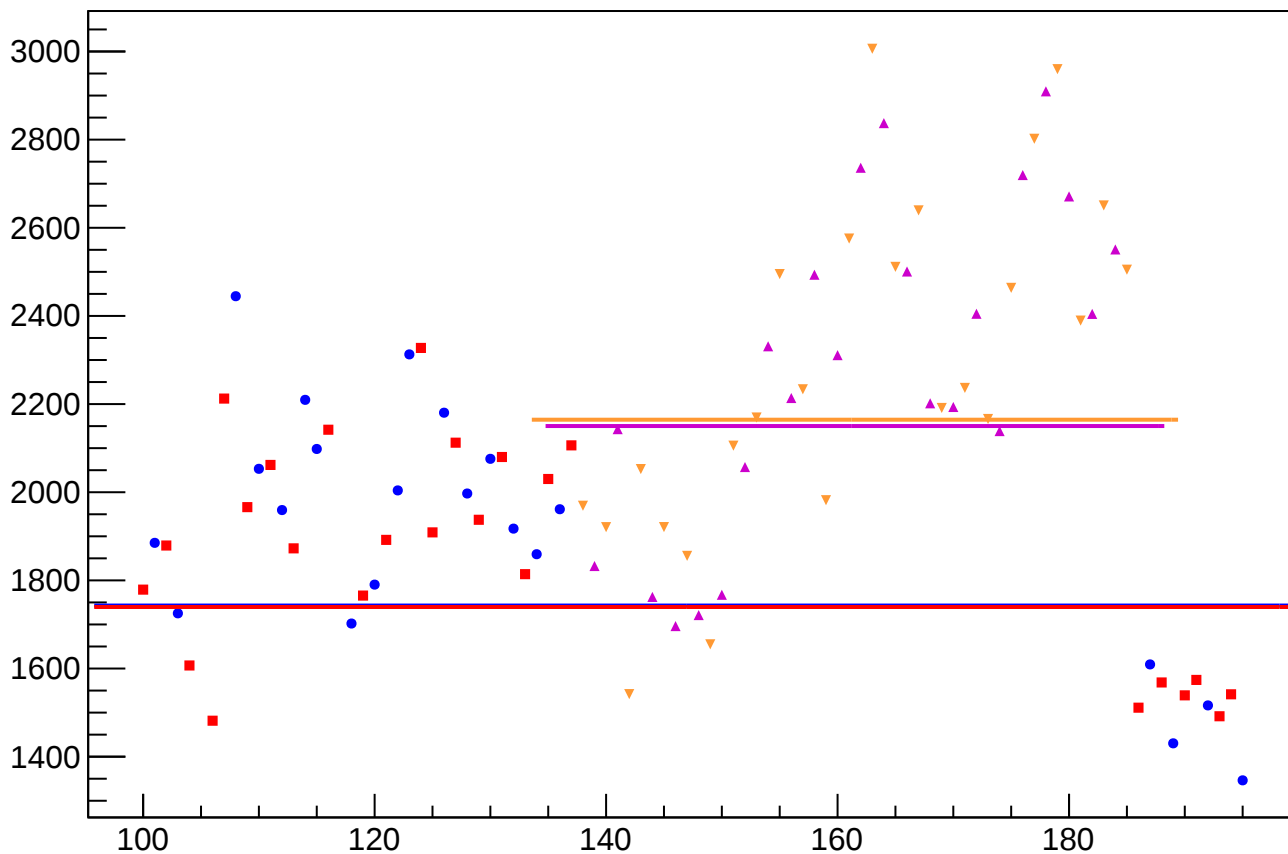
Right: 26.715 $\pm$ 0.398 χ^2/NDF : 4100.4/45

In: 1.294 $\pm$ 0.392 χ^2/NDF :13075.6/43

Out: 7.357 $\pm$ 0.372 χ^2/NDF :2005.7/49

All: 4.485 $\pm$ 0.270 χ^2/NDF : 15207.2/93

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1742.908 $\pm$ 0.416 χ^2 /NDF: 463492.3/20

Left Out: 2164.573 $\pm$ 0.362 χ^2 /NDF: 965603.5/24

Right Out: 1739.638 $\pm$ 0.382 χ^2 /NDF: 360676.9/24

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

Left: 2157.578 $\pm$ 0.259 χ^2 /NDF: 1878220.9/47

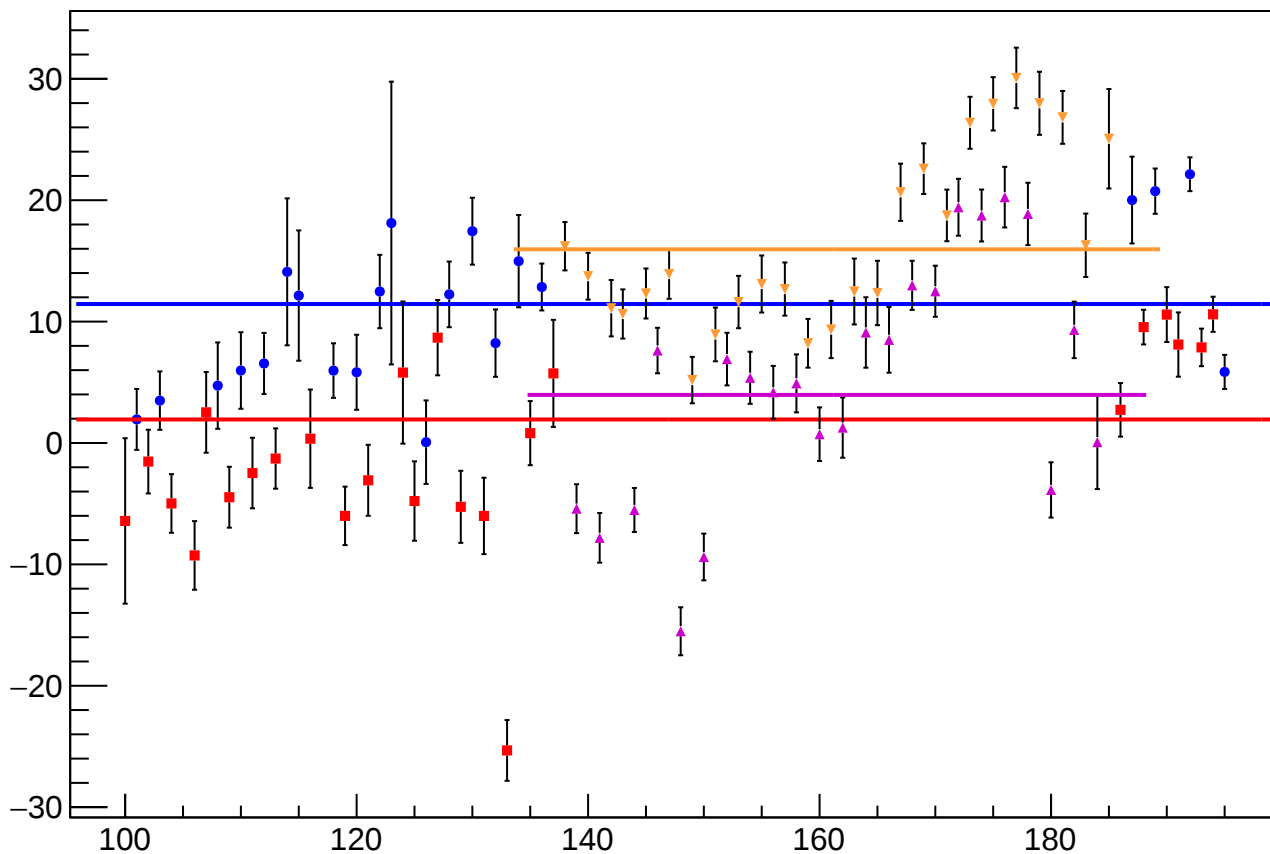
Right: 1741.138 $\pm$ 0.281 χ^2 /NDF: 824202.6/45

In: 1968.969 $\pm$ 0.277 χ^2 /NDF: 1908629.1/43

Out: 1963.798 $\pm$ 0.263 χ^2 /NDF: 1977383.1/49

All: 1966.247 $\pm$ 0.191 χ^2 /NDF: 3886195.4/93

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 11.447 ± 0.546 $\chi^2/\text{NDF}: 169.4/20$

Left Out: 15.956 ± 0.447 $\chi^2/\text{NDF}: 245.2/24$

Right Out: 1.937 ± 0.496 $\chi^2/\text{NDF}: 292.2/24$

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

Left: 10.161 ± 0.322 $\chi^2/\text{NDF}: 1057.3/47$

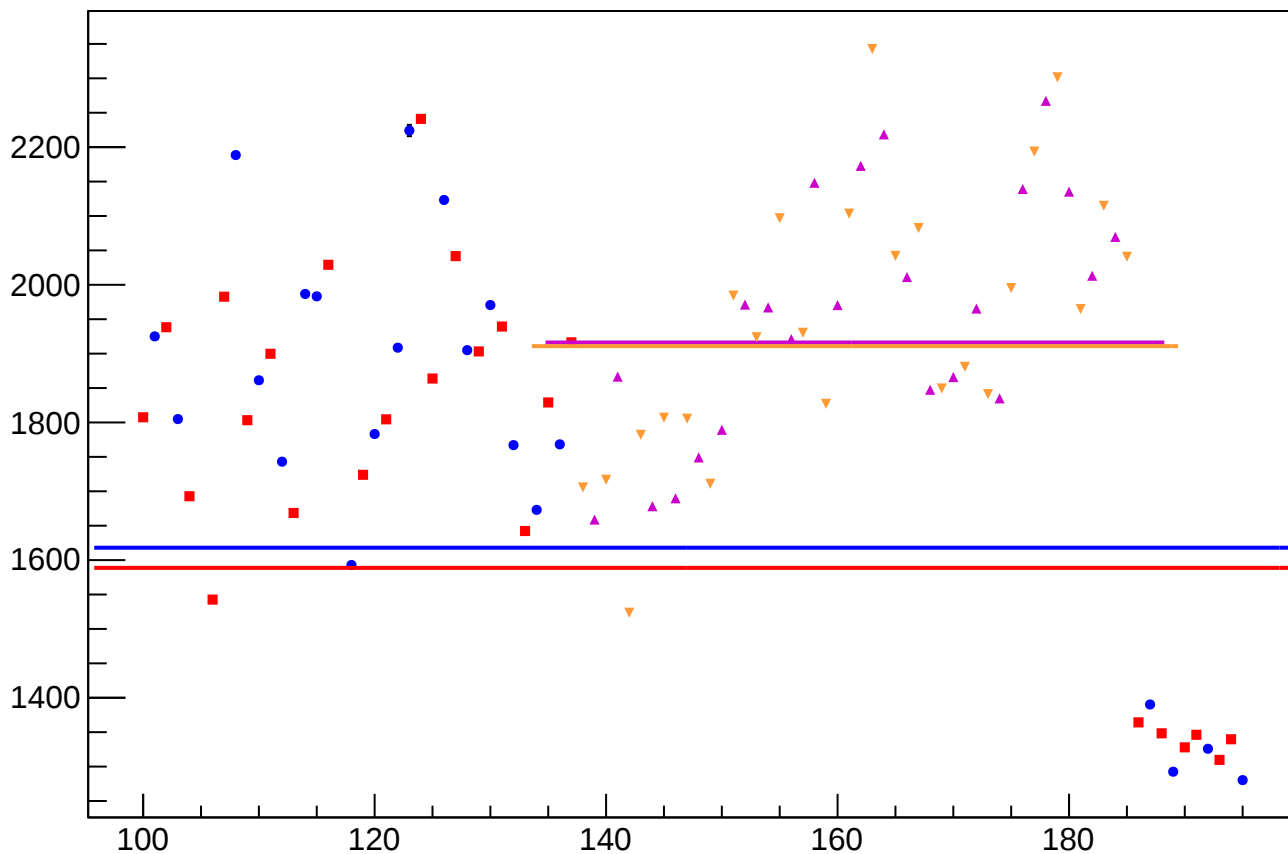
Right: 6.237 ± 0.367 $\chi^2/\text{NDF}: 628.1/45$

In: 7.093 ± 0.353 $\chi^2/\text{NDF}: 743.8/43$

Out: 9.662 ± 0.332 $\chi^2/\text{NDF}: 978.2/49$

All: 8.456 ± 0.242 $\chi^2/\text{NDF}: 1750.1/93$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1618.021 ± 0.386 $\chi^2/\text{NDF}: 546352.4/20$

Left Out: 1910.859 ± 0.316 $\chi^2/\text{NDF}: 328970.6/24$

Right Out: 1588.756 ± 0.350 $\chi^2/\text{NDF}: 552998.1/24$

Left In: 1916.159 ± 0.327 $\chi^2/\text{NDF}: 274285.3/22$

Left: 1913.419 ± 0.227 $\chi^2/\text{NDF}: 603391.5/47$

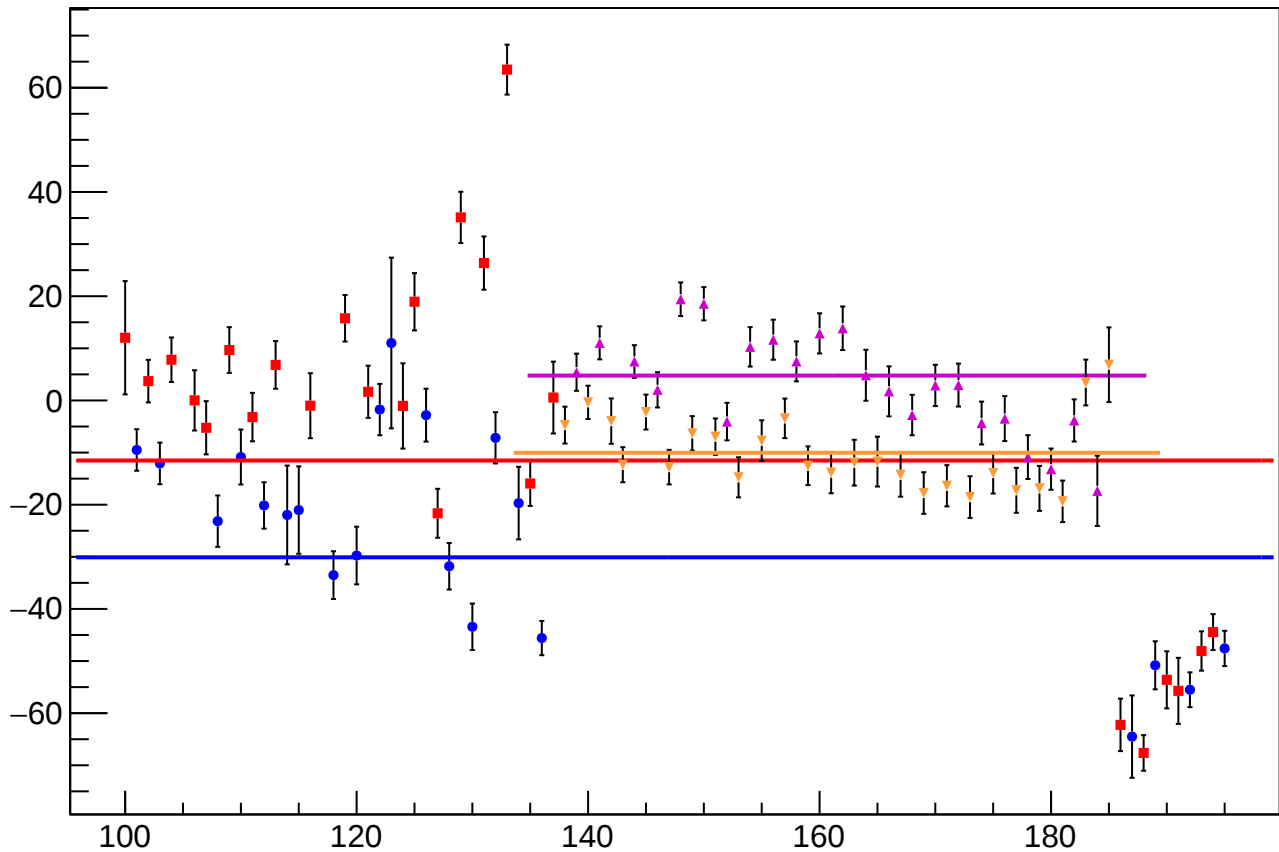
Right: 1601.988 ± 0.259 $\chi^2/\text{NDF}: 1102502.7/45$

In: 1791.400 ± 0.250 $\chi^2/\text{NDF}: 1167919.8/43$

Out: 1766.248 ± 0.235 $\chi^2/\text{NDF}: 1347363.2/49$

All: 1778.060 ± 0.171 $\chi^2/\text{NDF}: 2520669.9/93$

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -30.097 ± 1.032 $\chi^2/\text{NDF}: 317.2/20$

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 $\chi^2/\text{NDF}: 372.2/47$

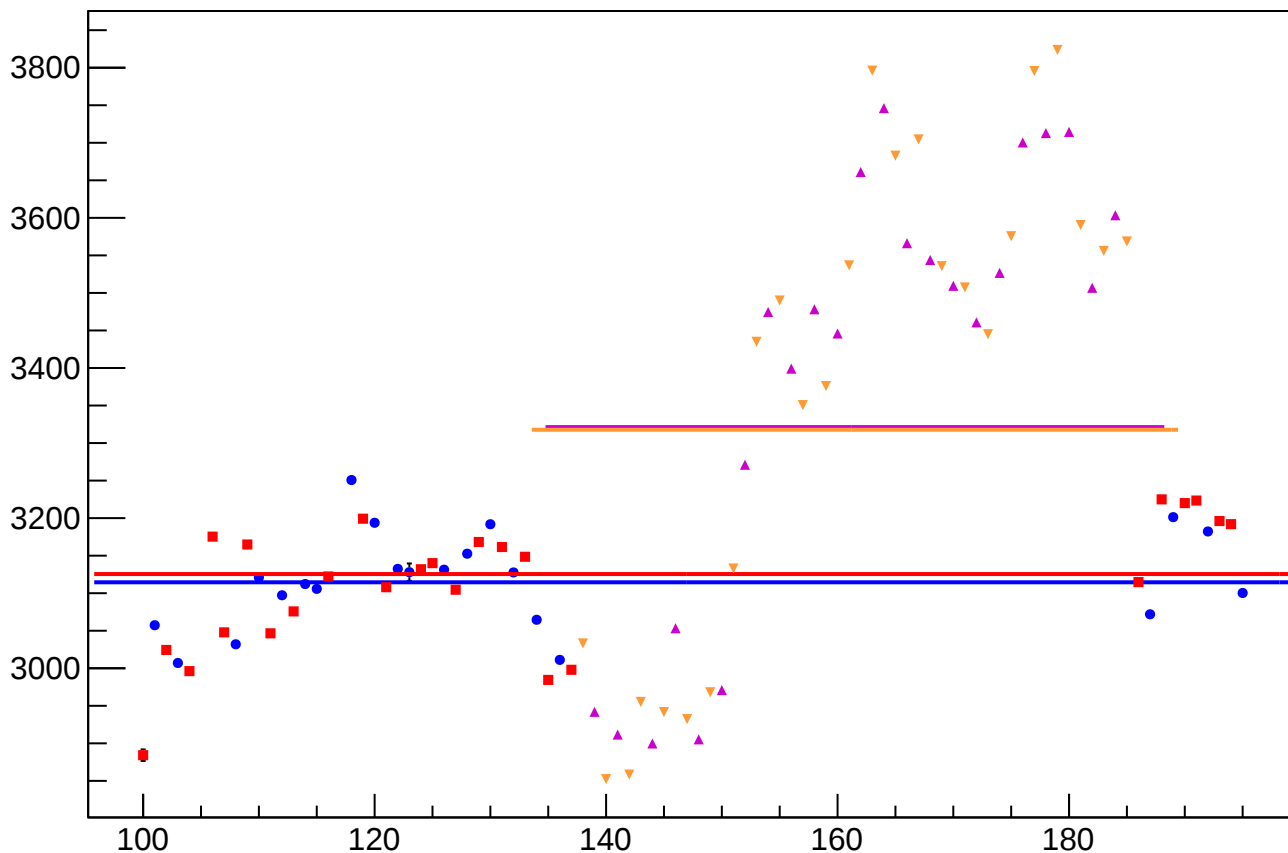
Right: -20.144 ± 0.703 $\chi^2/\text{NDF}: 1720.6/45$

In: -8.319 ± 0.633 $\chi^2/\text{NDF}: 1158.3/43$

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

All: -9.526 ± 0.437 $\chi^2/\text{NDF}: 2463.6/93$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.525 $\pm$ 0.730 χ^2 /NDF: 9155.9/20

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

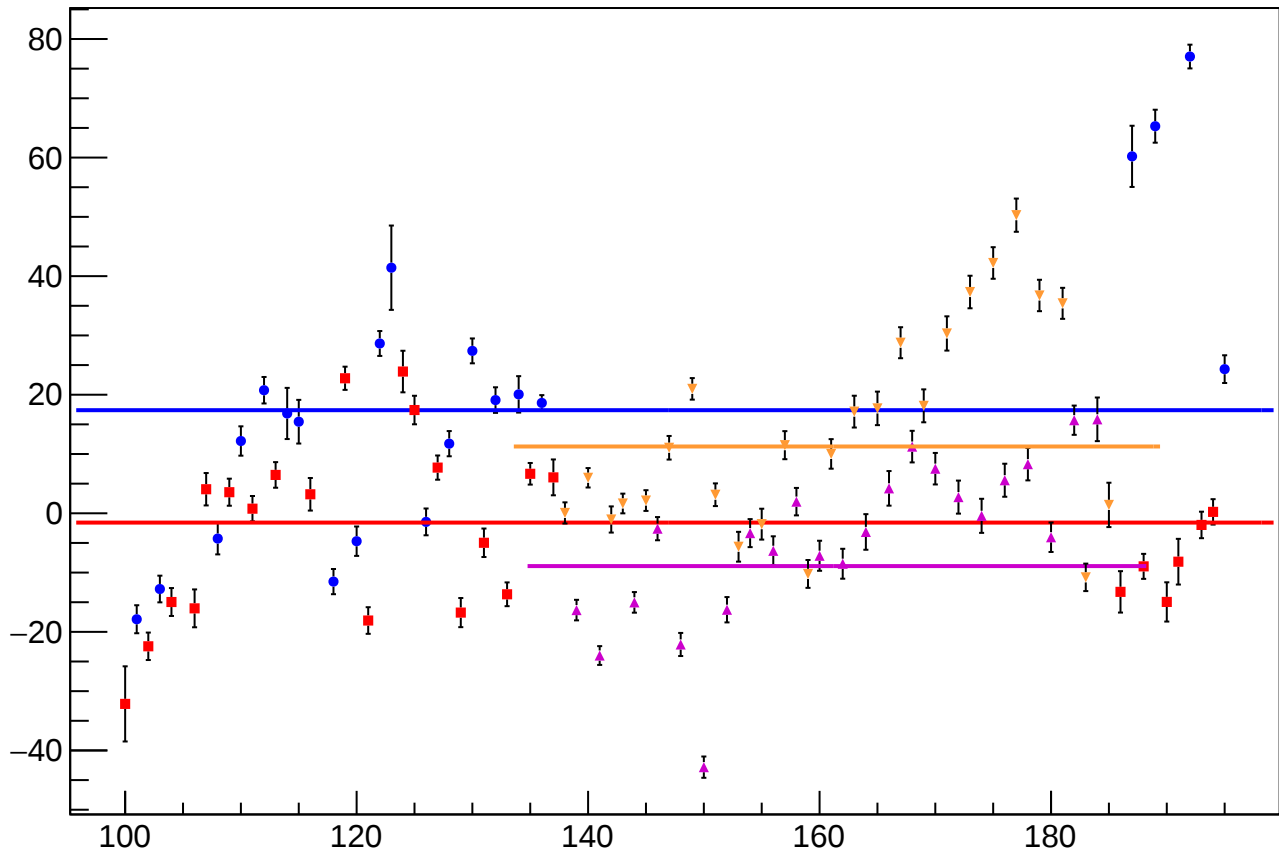
Right: 3120.410 $\pm$ 0.497 χ^2 /NDF: 22883.7/45

In: 3243.648 $\pm$ 0.447 χ^2 /NDF:343585.0/43

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

All: 3242.678 $\pm$ 0.309 χ^2 /NDF: 742486.9/93

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.391 ± 0.514 $\chi^2/\text{NDF}: 2142.7/20$

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 $\chi^2/\text{NDF}: 3014.7/47$

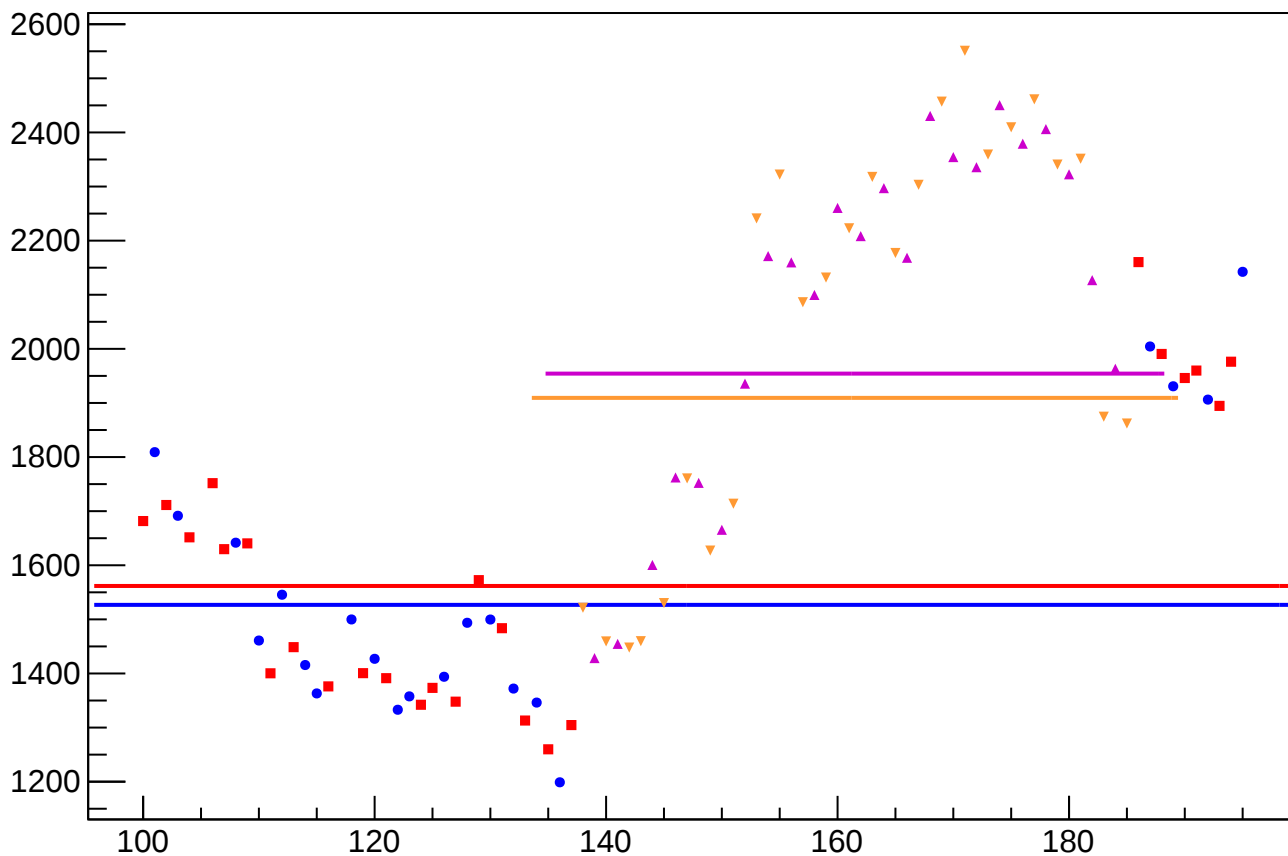
Right: 7.398 ± 0.354 $\chi^2/\text{NDF}: 3535.5/45$

In: 3.273 ± 0.350 $\chi^2/\text{NDF}: 4483.2/43$

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

All: 4.336 ± 0.241 $\chi^2/\text{NDF}: 6690.2/93$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1526.813 $\pm$ 0.364 χ^2 /NDF: 490736.6/20

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

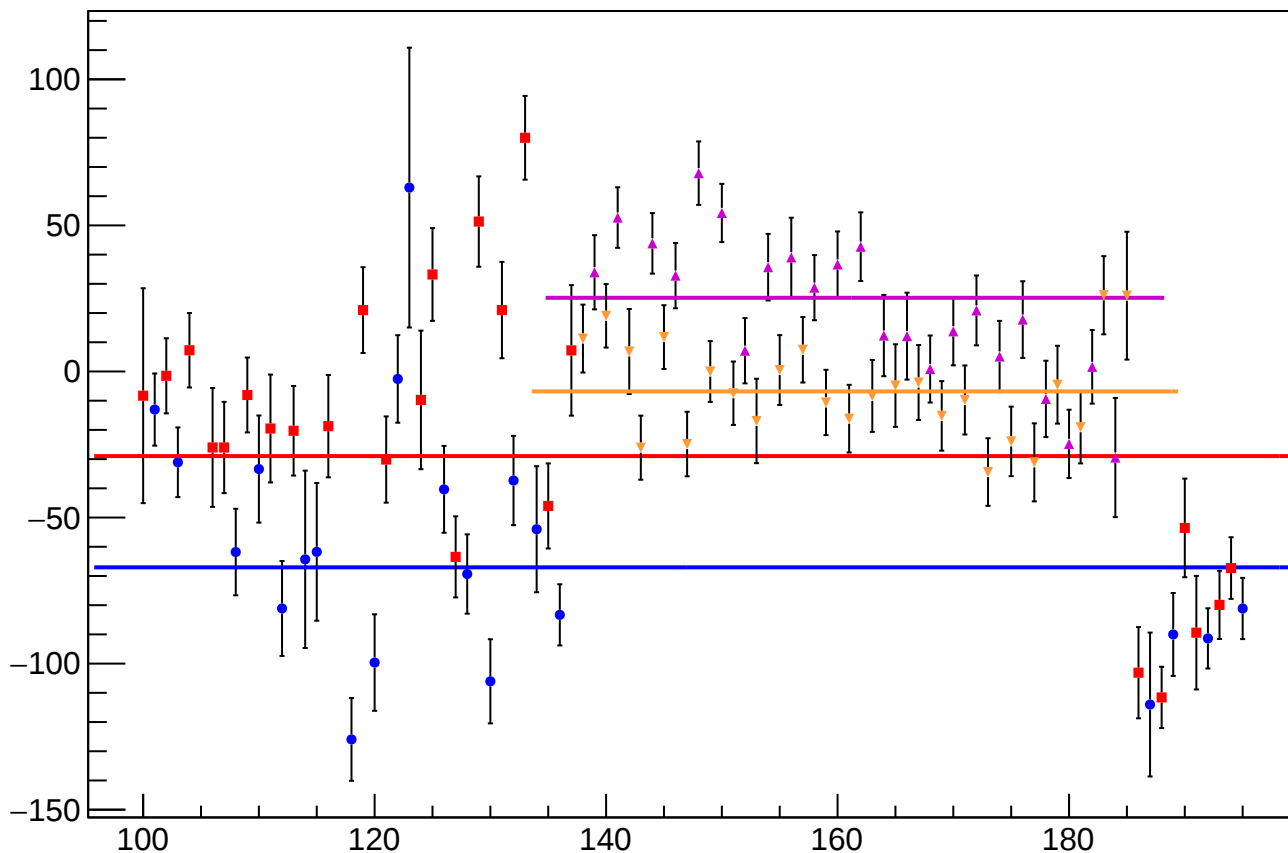
Right: 1545.225 $\pm$ 0.250 χ^2 /NDF: 1022559.7/45

In: 1756.299 $\pm$ 0.247 χ^2 /NDF:2277610.9/43

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

All: 1751.733 $\pm$ 0.170 χ^2 /NDF: 4748535.4/93

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -67.051 ± 3.214 χ^2/NDF : 110.4/20

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

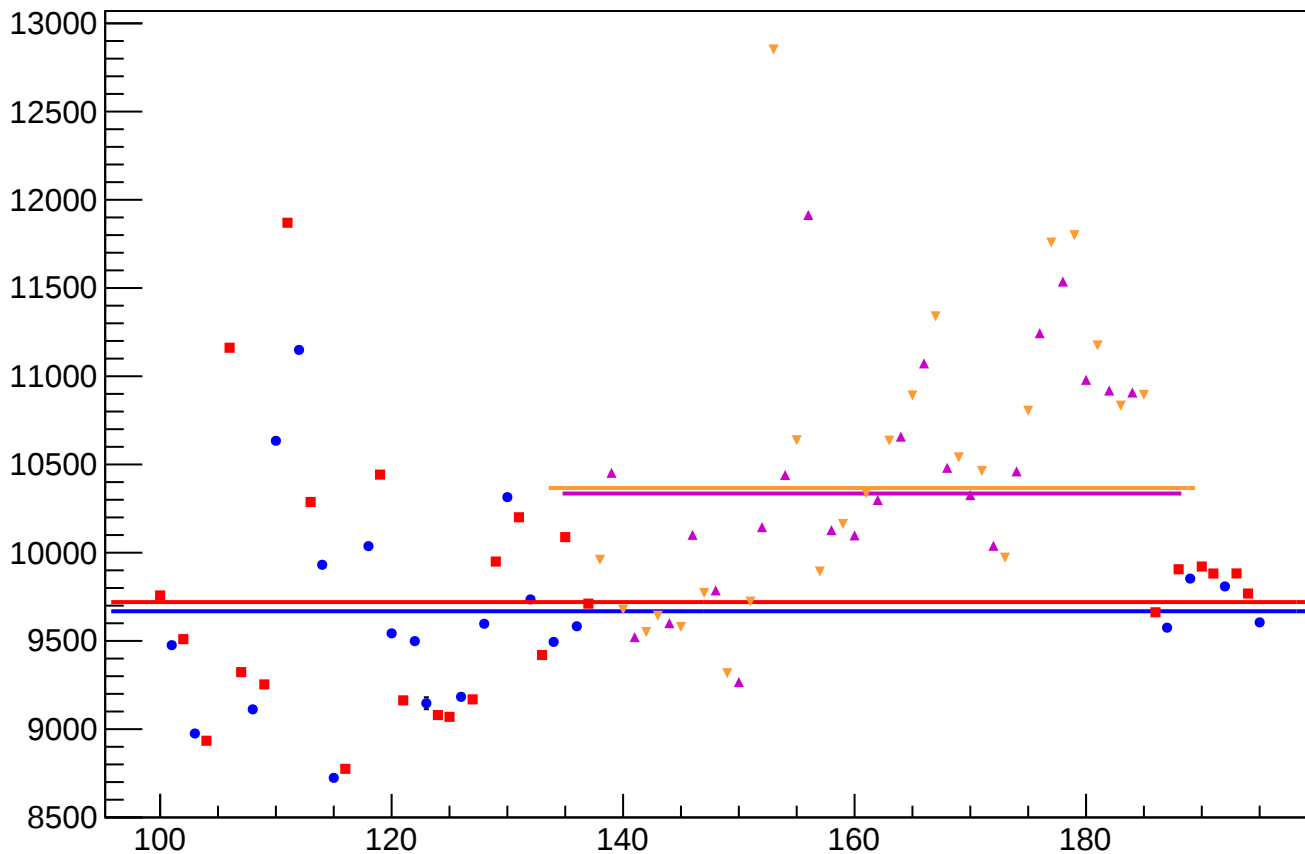
Right: -46.682 ± 2.192 χ^2/NDF : 462.4/45

In: -9.333 ± 1.967 χ^2/NDF : 715.2/43

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

All: -12.587 ± 1.361 χ^2/NDF : 1072.7/93

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9668.122 $\pm$ 2.273 χ^2/NDF : 44876.9/20

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

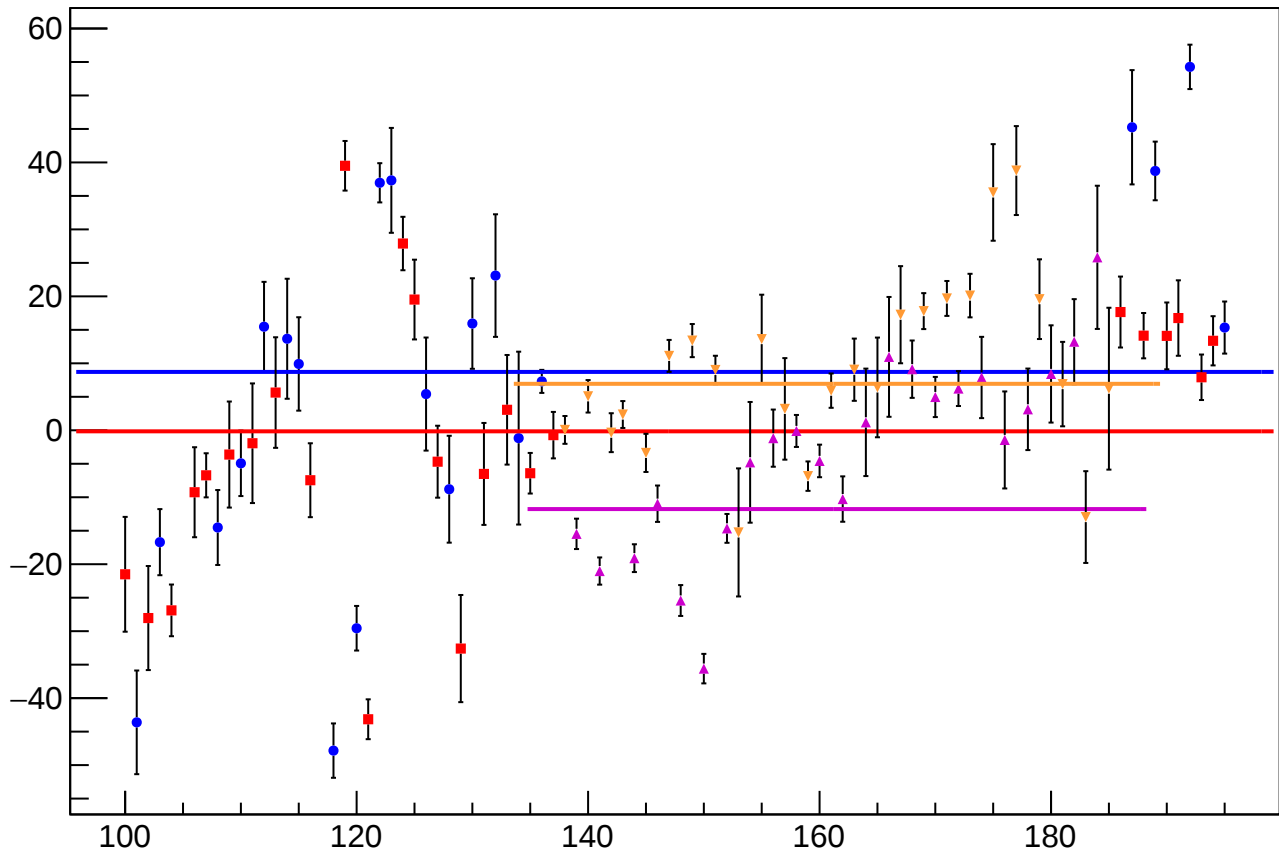
Right: 9695.885 $\pm$ 1.550 χ^2/NDF : 124466.1/45

In: 10085.544 $\pm$ 1.391 χ^2/NDF :225977.7/43

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

All: 10098.864 $\pm$ 0.962 χ^2/NDF : 573147.4/93

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 8.717 ± 0.953 $\chi^2/\text{NDF}: 797.9/20$

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 $\chi^2/\text{NDF}: 1021.3/47$

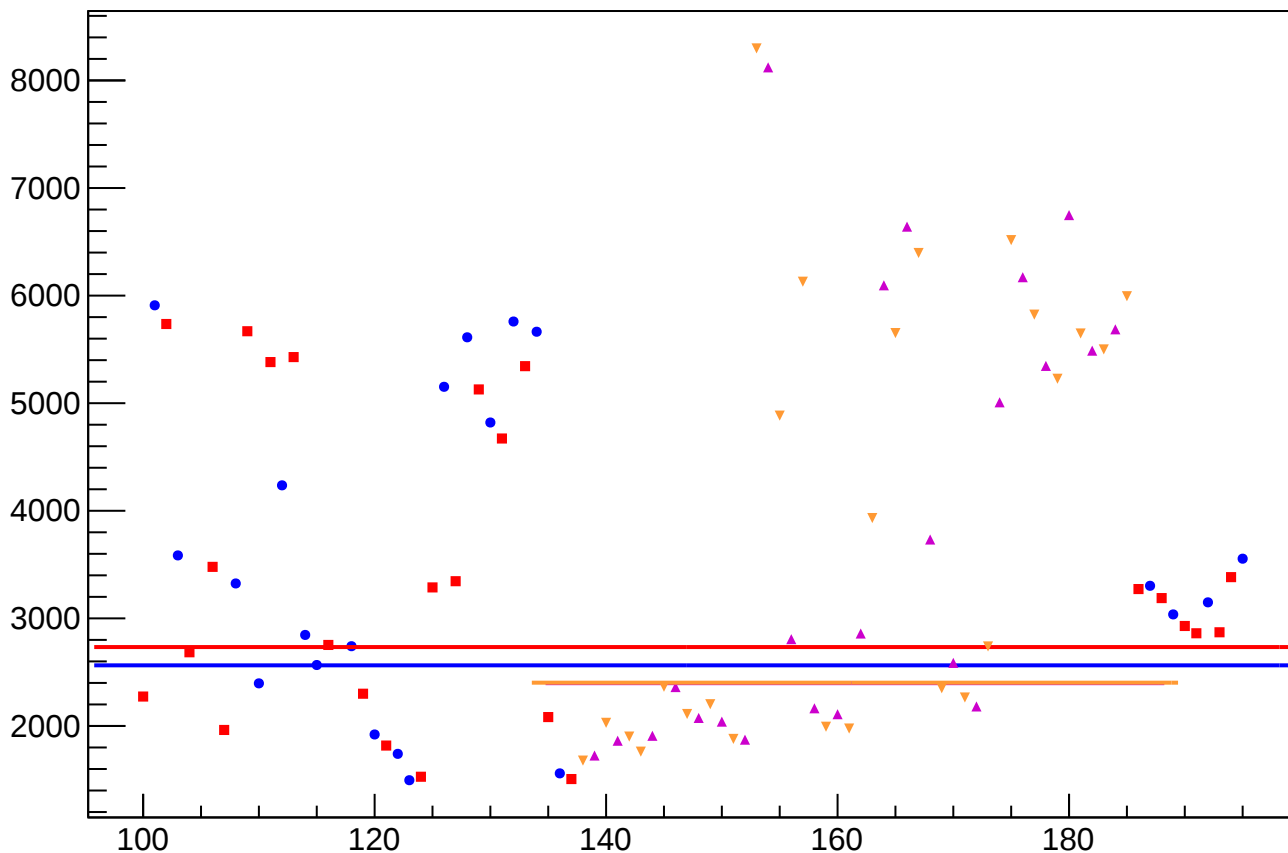
Right: 4.100 ± 0.660 $\chi^2/\text{NDF}: 1389.7/45$

In: -5.285 ± 0.536 $\chi^2/\text{NDF}: 1508.8/43$

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

All: -0.221 ± 0.375 $\chi^2/\text{NDF}: 2474.2/93$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2563.505 $\pm$ 0.674 χ^2/NDF : 2873160.7/20

Left Out: 2402.359 $\pm$ 0.452 χ^2/NDF : 6345982.8/24

Right Out: 2733.425 $\pm$ 0.647 χ^2/NDF : 2526493.1/24

Left In: 2397.701 $\pm$ 0.458 χ^2/NDF : 5398920.1/22

Left: 2400.065 $\pm$ 0.322 χ^2/NDF : 11744955.3/47

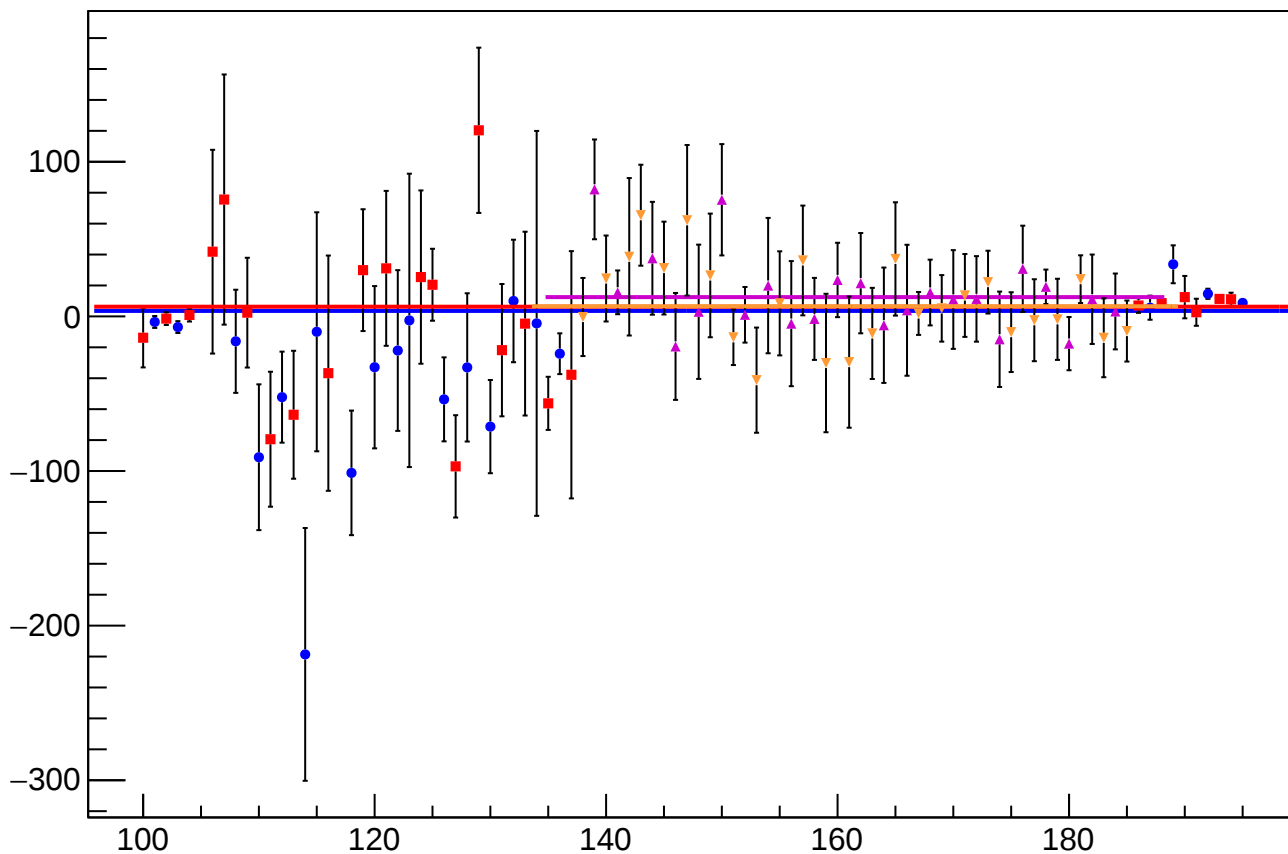
Right: 2651.910 $\pm$ 0.467 χ^2/NDF : 5432731.7/45

In: 2450.159 $\pm$ 0.379 χ^2/NDF : 8313463.1/43

Out: 2510.812 $\pm$ 0.370 χ^2/NDF : 9048479.6/49

All: 2481.188 $\pm$ 0.265 χ^2/NDF : 17375041.0/95

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 3.539 ± 1.658 $\chi^2/\text{NDF}: 69.5/20$

Left Out: 6.560 ± 5.077 $\chi^2/\text{NDF}: 16.8/24$

Right Out: 6.265 ± 1.456 $\chi^2/\text{NDF}: 48.8/24$

Left In: 12.469 ± 5.025 $\chi^2/\text{NDF}: 15.4/22$

Left: 9.545 ± 3.572 $\chi^2/\text{NDF}: 32.8/47$

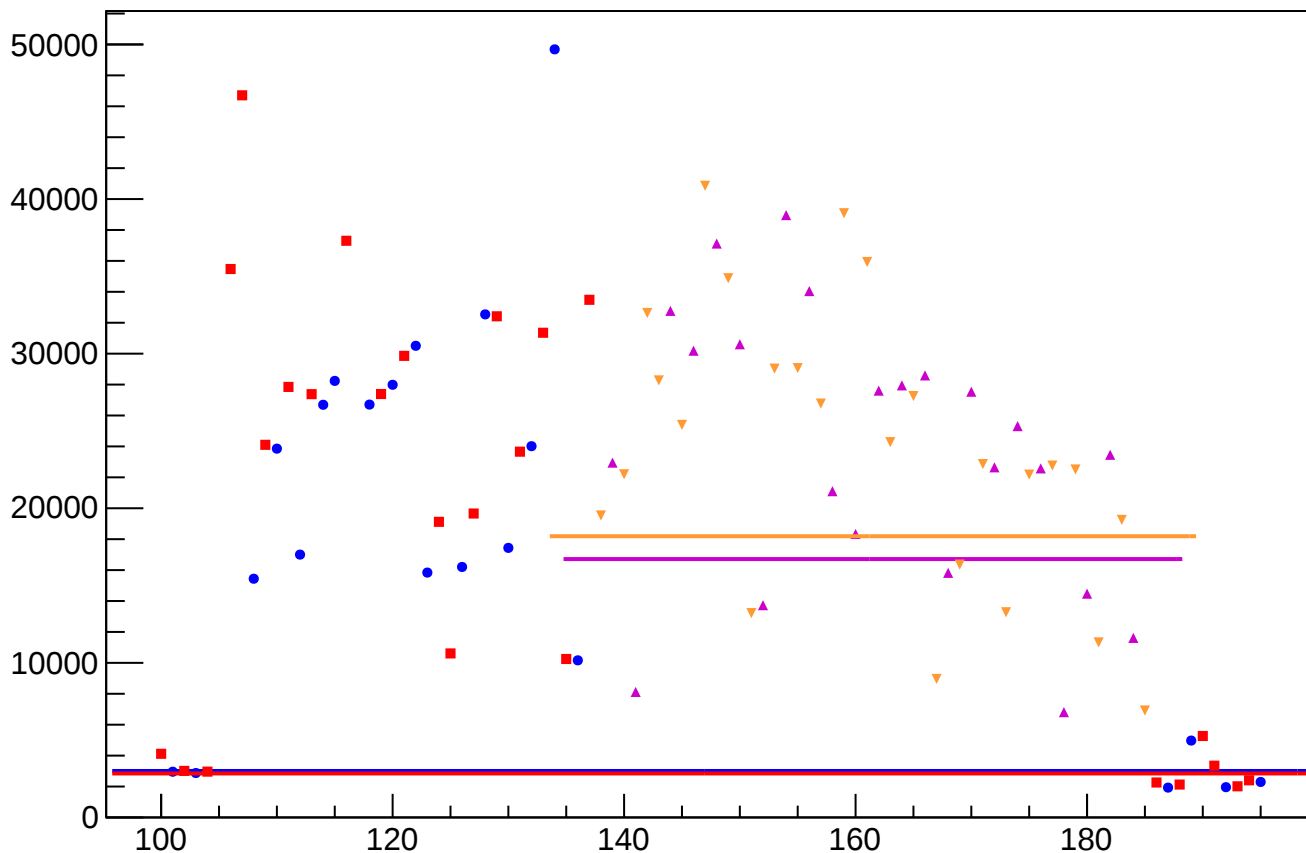
Right: 5.079 ± 1.094 $\chi^2/\text{NDF}: 119.9/45$

In: 4.416 ± 1.574 $\chi^2/\text{NDF}: 87.8/43$

Out: 6.288 ± 1.399 $\chi^2/\text{NDF}: 65.6/49$

All: 5.462 ± 1.046 $\chi^2/\text{NDF}: 154.1/93$

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 3005.758+/-1.172 χ^2/NDF : 6761939.5/20

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

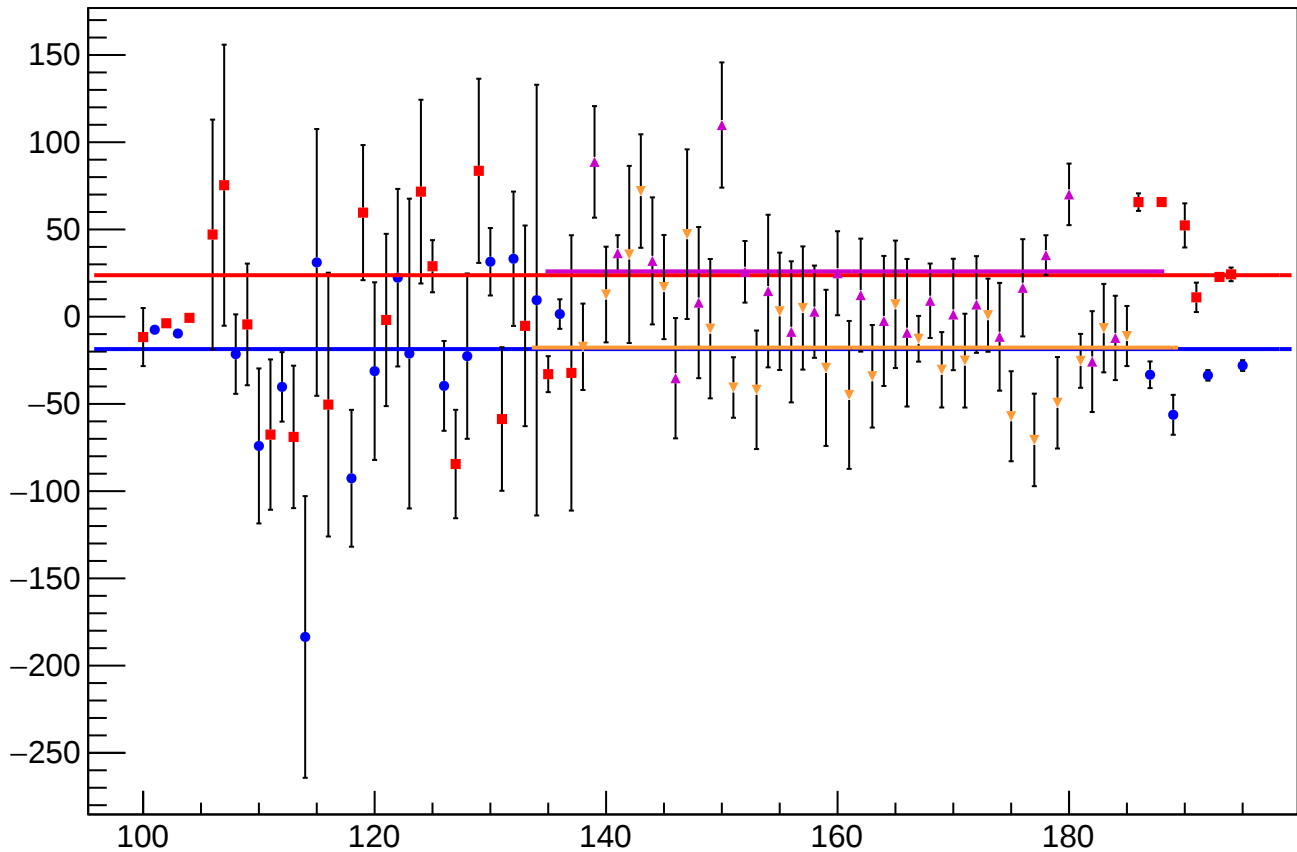
Right: 2915.796+/-0.774 χ^2/NDF : 15220132.4/45

In: 4351.279+/-1.113 χ^2/NDF : 26377043.1/43

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

All: 4161.738+/-0.740 χ^2/NDF : 57015462.6/95

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -18.572 ± 1.342 $\chi^2/\text{NDF}: 104.5/20$

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 $\chi^2/\text{NDF}: 99.8/47$

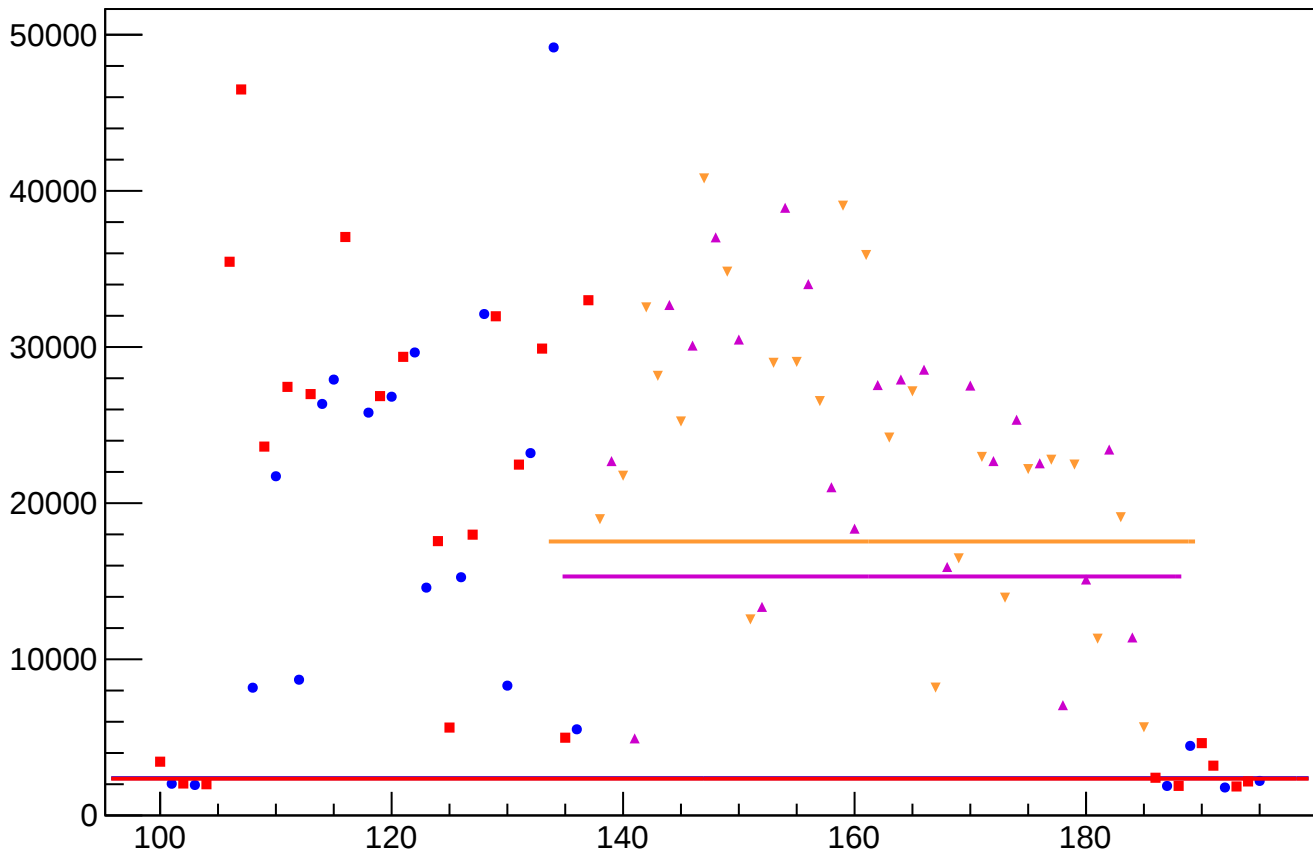
Right: 4.497 ± 0.905 $\chi^2/\text{NDF}: 1200.1/45$

In: -15.328 ± 1.292 $\chi^2/\text{NDF}: 217.4/43$

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

All: 4.528 ± 0.876 $\chi^2/\text{NDF}: 1300.0/93$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2386.455 ± 0.949 $\chi^2/\text{NDF}: 5764357.3/20$

Left Out: 17546.173 ± 3.517 $\chi^2/\text{NDF}: 5902620.4/24$

Right Out: 2355.894 ± 0.868 $\chi^2/\text{NDF}: 8118467.7/24$

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

Left: 16383.216 ± 2.439 $\chi^2/\text{NDF}: 13834445.4/47$

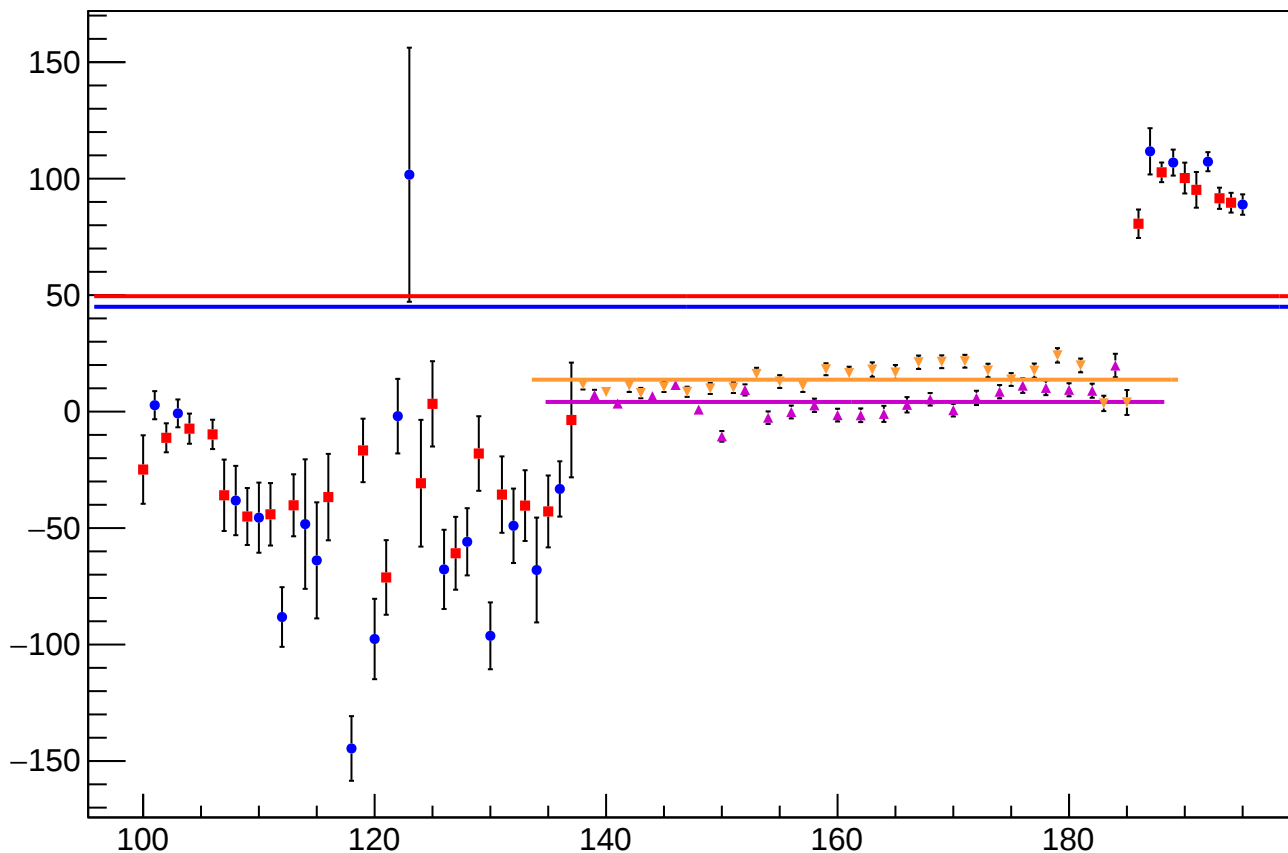
Right: 2369.810 ± 0.640 $\chi^2/\text{NDF}: 13883390.0/45$

In: 3326.936 ± 0.914 $\chi^2/\text{NDF}: 26980876.3/43$

Out: 3227.076 ± 0.842 $\chi^2/\text{NDF}: 31602752.6/49$

All: 3272.956 ± 0.619 $\chi^2/\text{NDF}: 58590086.4/95$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 44.995 $\pm$ 1.939 χ^2 /NDF: 1370.5/20

Left Out: 13.710 $\pm$ 0.535 χ^2 /NDF:89.9/24

Right Out: 49.546 $\pm$ 1.651 χ^2 /NDF: 1213.1/24

Left In: 4.141 $\pm$ 0.555 χ^2 /NDF:111.7/22

Left: 9.097 $\pm$ 0.385 χ^2 /NDF: 355.6/47

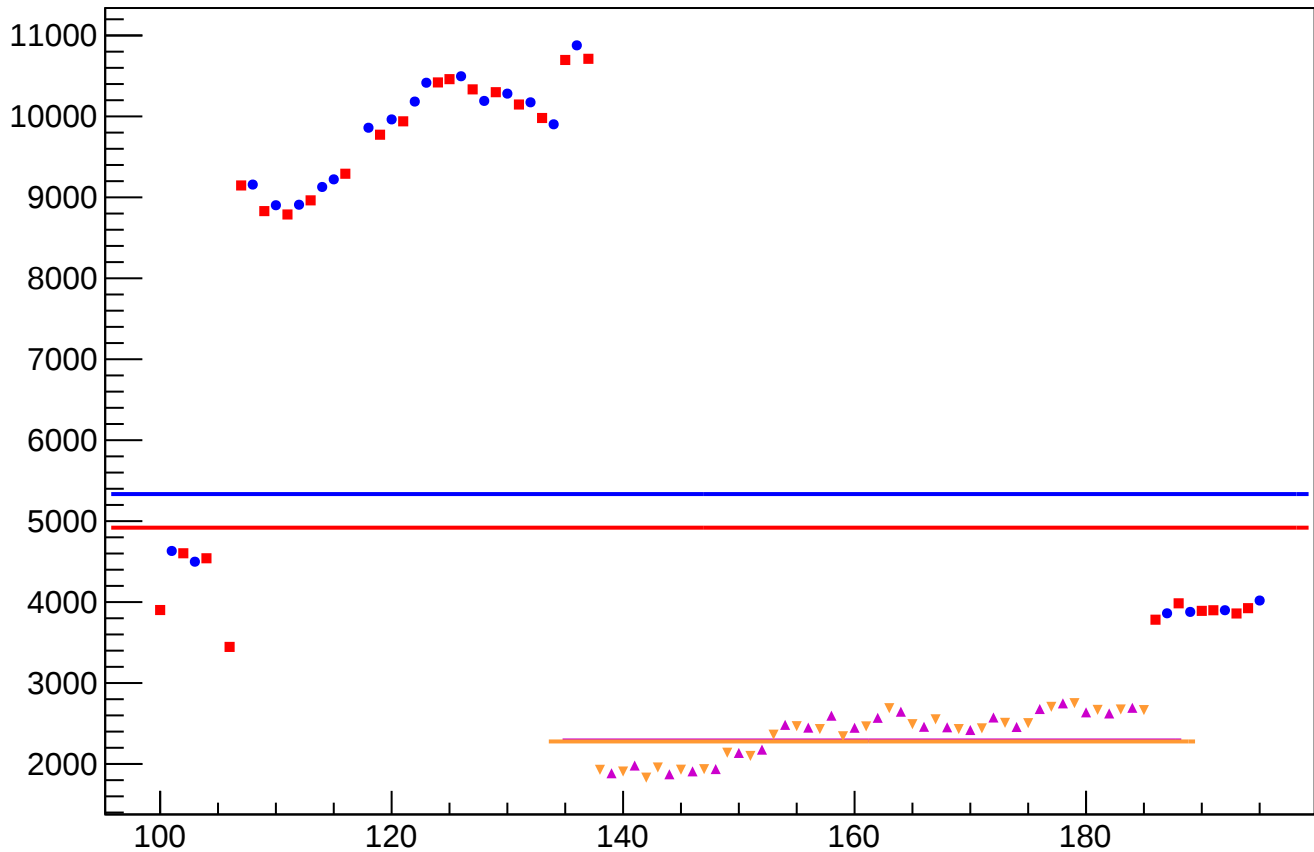
Right: 47.632 $\pm$ 1.257 χ^2 /NDF: 2586.8/45

In: 7.233 $\pm$ 0.533 χ^2 /NDF:1892.6/43

Out: 17.117 $\pm$ 0.509 χ^2 /NDF:1729.2/49

All: 12.405 $\pm$ 0.368 χ^2 /NDF: 3801.6/93

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 5334.394+/-1.371 χ^2/NDF : 3066118.7/20

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

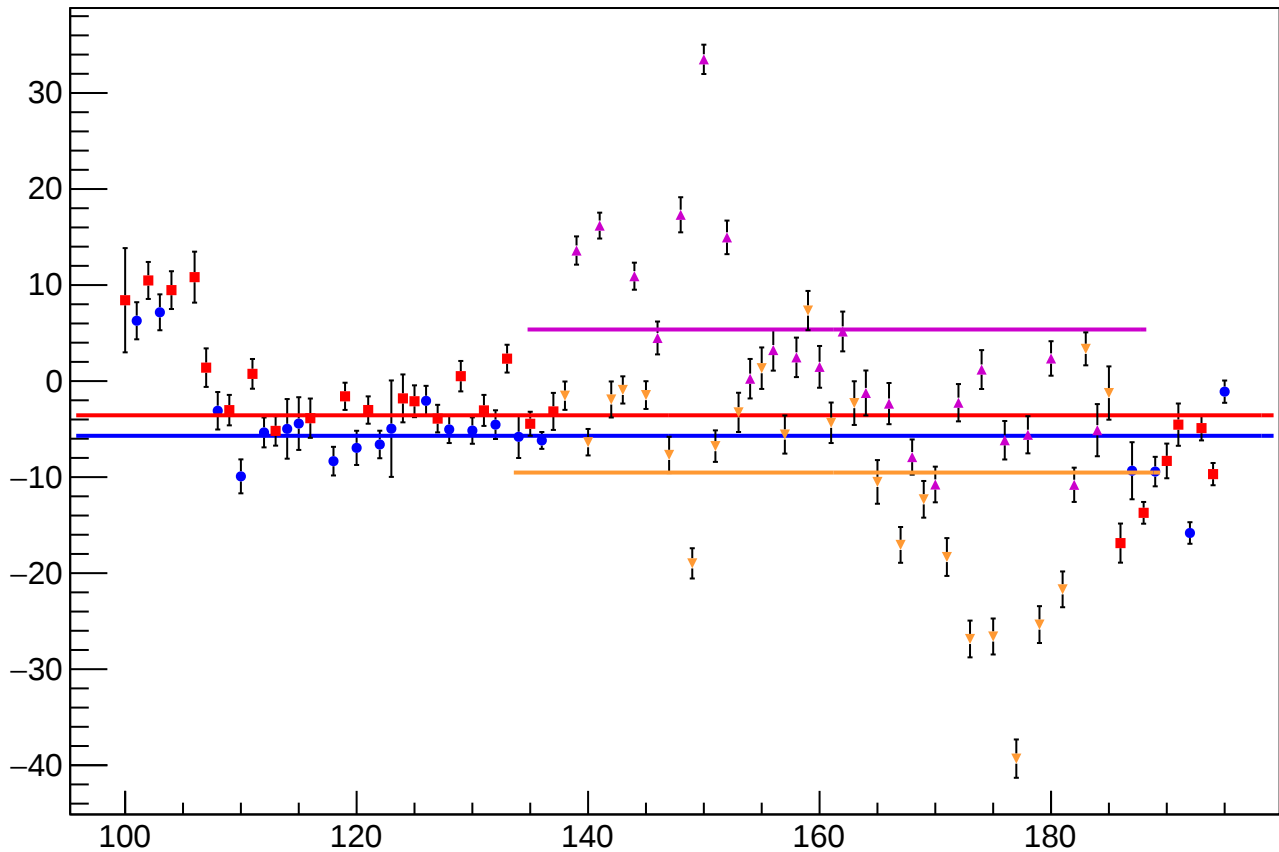
Right: 5093.813+/-0.889 χ^2/NDF : 6536259.2/45

In: 2520.890+/-0.377 χ^2/NDF : 8213893.5/43

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

All: 2525.267+/-0.260 χ^2/NDF : 16868761.9/95

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -5.697±0.342 χ^2/NDF : 208.6/20

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

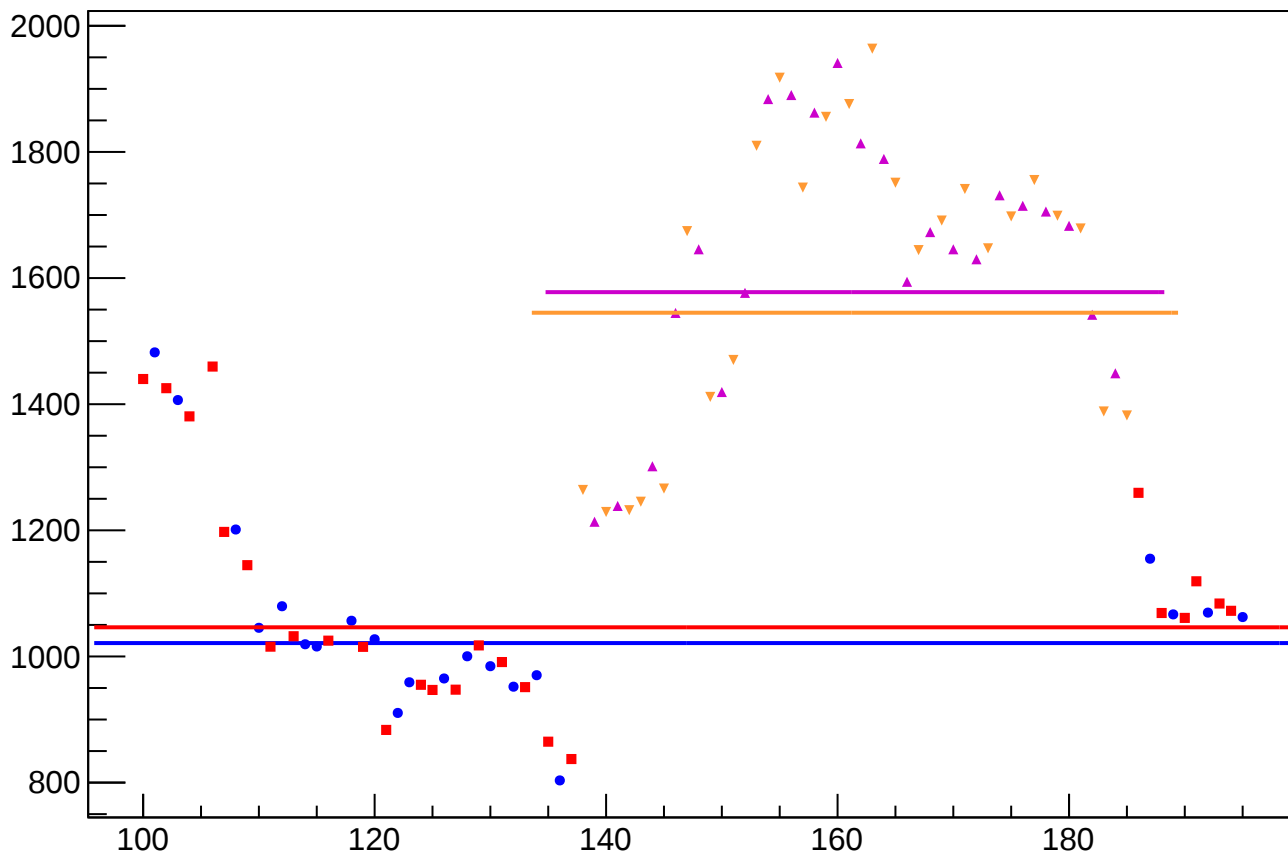
Right: -4.573±0.236 χ^2/NDF : 562.1/45

In: -0.781±0.255 χ^2/NDF : 1543.0/43

Out: -6.197±0.242 χ^2/NDF : 1366.1/49

All: -3.627±0.176 χ^2/NDF : 3145.9/93

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1021.232 $\pm$ 0.242 χ^2/NDF : 377280.0/20

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

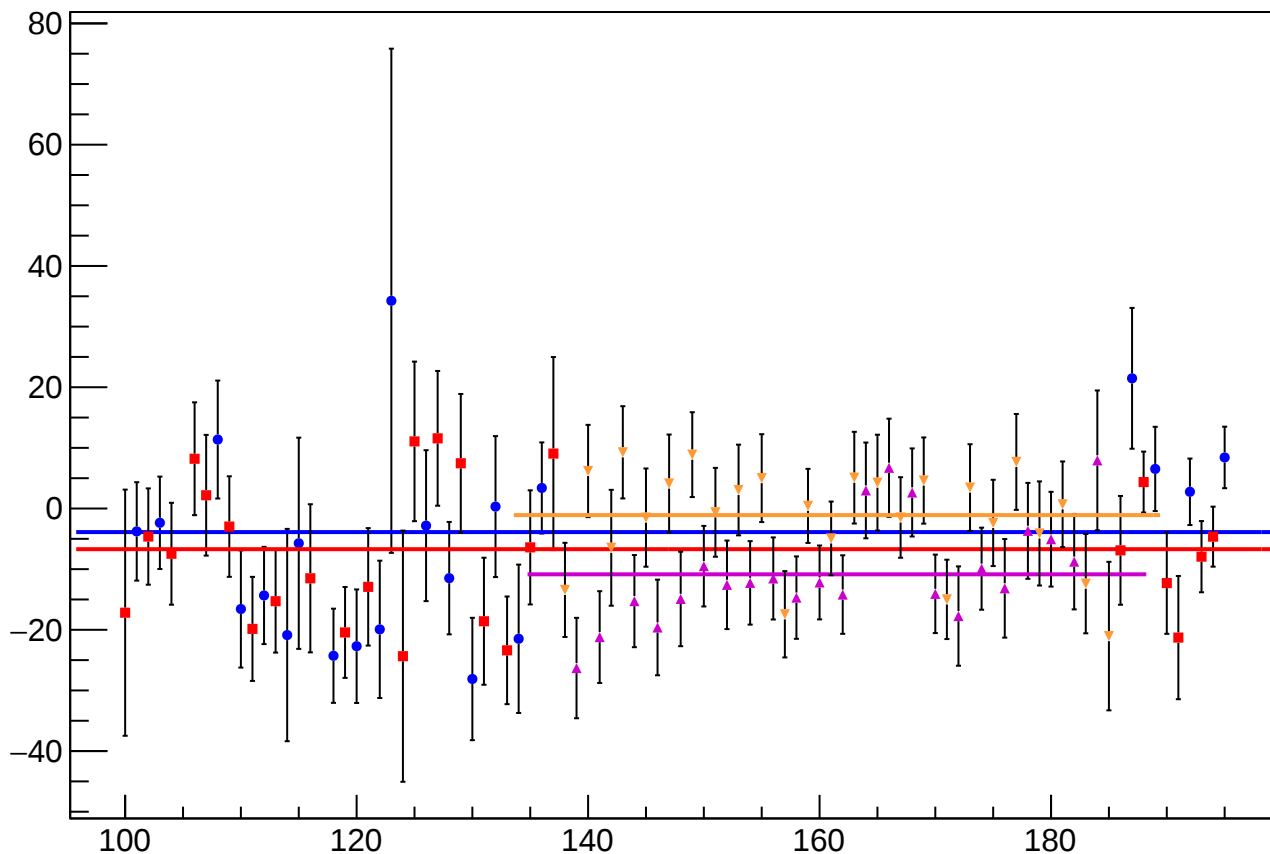
Right: 1034.392 $\pm$ 0.167 χ^2/NDF : 748904.0/45

In: 1268.363 $\pm$ 0.180 χ^2/NDF : 3350664.4/43

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

All: 1267.471 $\pm$ 0.124 χ^2/NDF : 6646697.6/93

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -3.887 ± 1.917 $\chi^2/\text{NDF}: 44.6/20$

Left Out: -1.083 ± 1.487 $\chi^2/\text{NDF}: 27.5/24$

Right Out: -6.706 ± 1.720 $\chi^2/\text{NDF}: 31.4/24$

Left In: -10.851 ± 1.542 $\chi^2/\text{NDF}: 24.4/22$

Left: -5.792 ± 1.070 $\chi^2/\text{NDF}: 72.7/47$

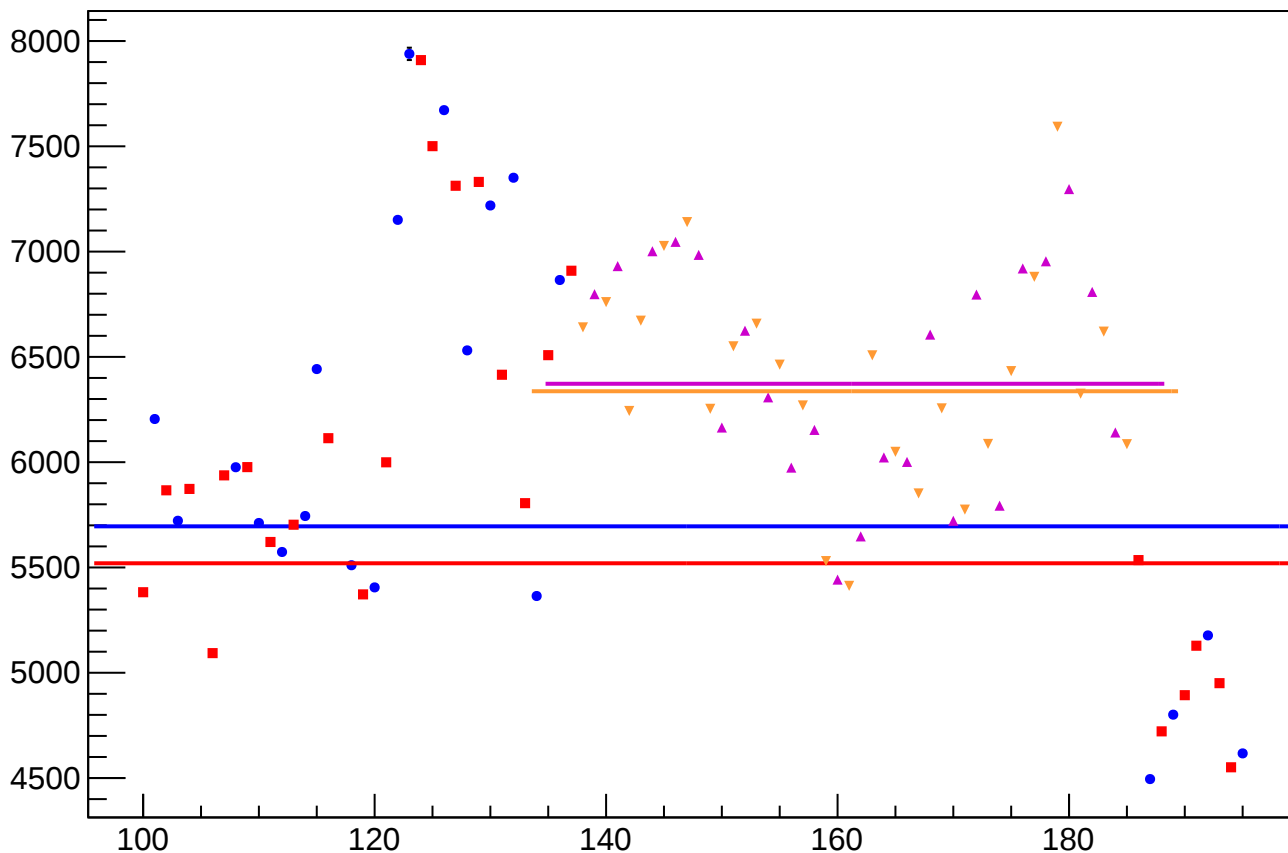
Right: -5.449 ± 1.280 $\chi^2/\text{NDF}: 77.2/45$

In: -8.116 ± 1.201 $\chi^2/\text{NDF}: 77.0/43$

Out: -3.489 ± 1.125 $\chi^2/\text{NDF}: 65.0/49$

All: -5.651 ± 0.821 $\chi^2/\text{NDF}: 149.9/93$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5695.313 $\pm$ 1.355 χ^2/NDF : 421226.0/20

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

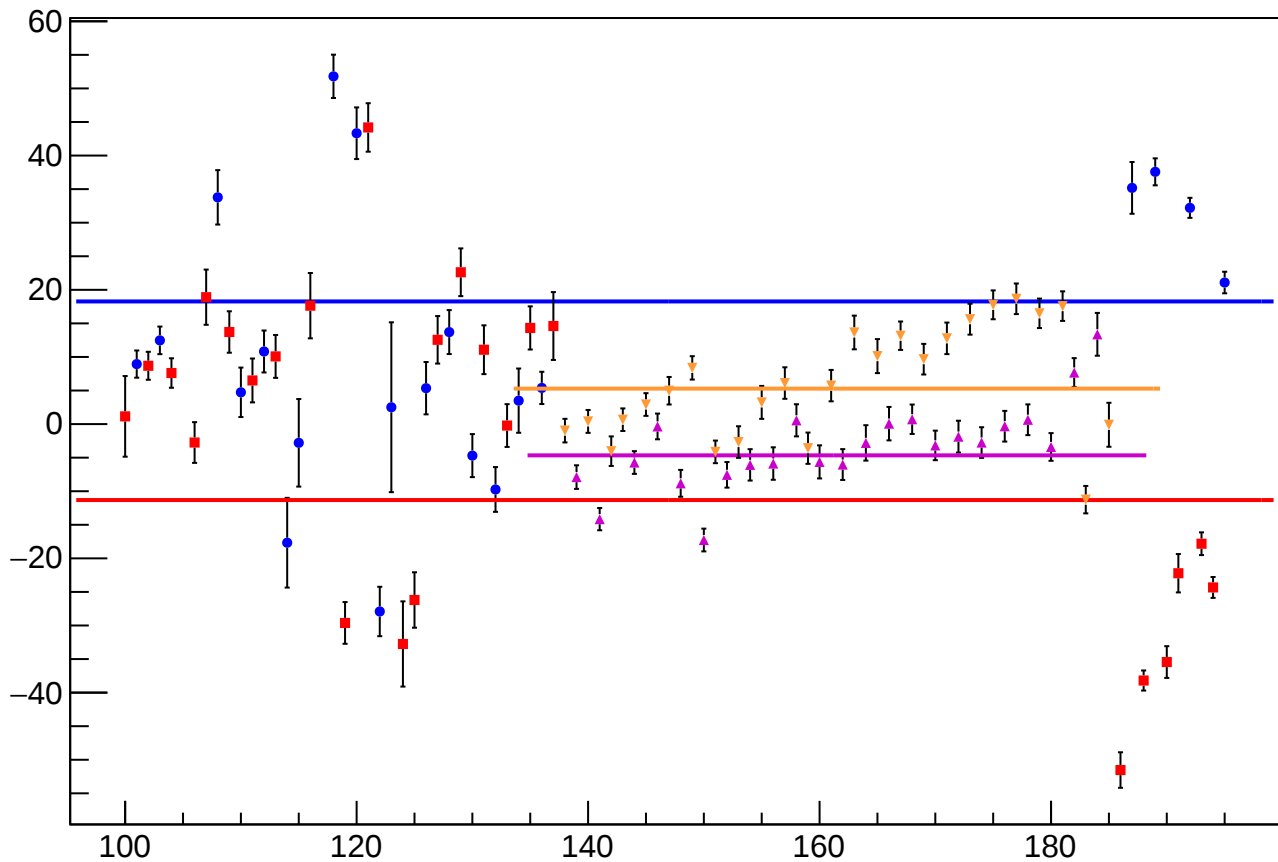
Right: 5598.120 $\pm$ 0.905 χ^2/NDF : 851776.4/45

In: 6106.409 $\pm$ 0.849 χ^2/NDF : 820000.5/43

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

All: 6042.944 $\pm$ 0.581 χ^2/NDF : 1732929.9/93

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 18.270 ± 0.606 χ^2/NDF : 786.7/20

Left Out: 5.284 ± 0.421 χ^2/NDF : 366.1/24

Right Out: -11.315 ± 0.546 χ^2/NDF : 1737.7/24

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

Left: 0.574 ± 0.305 χ^2/NDF : 827.2/47

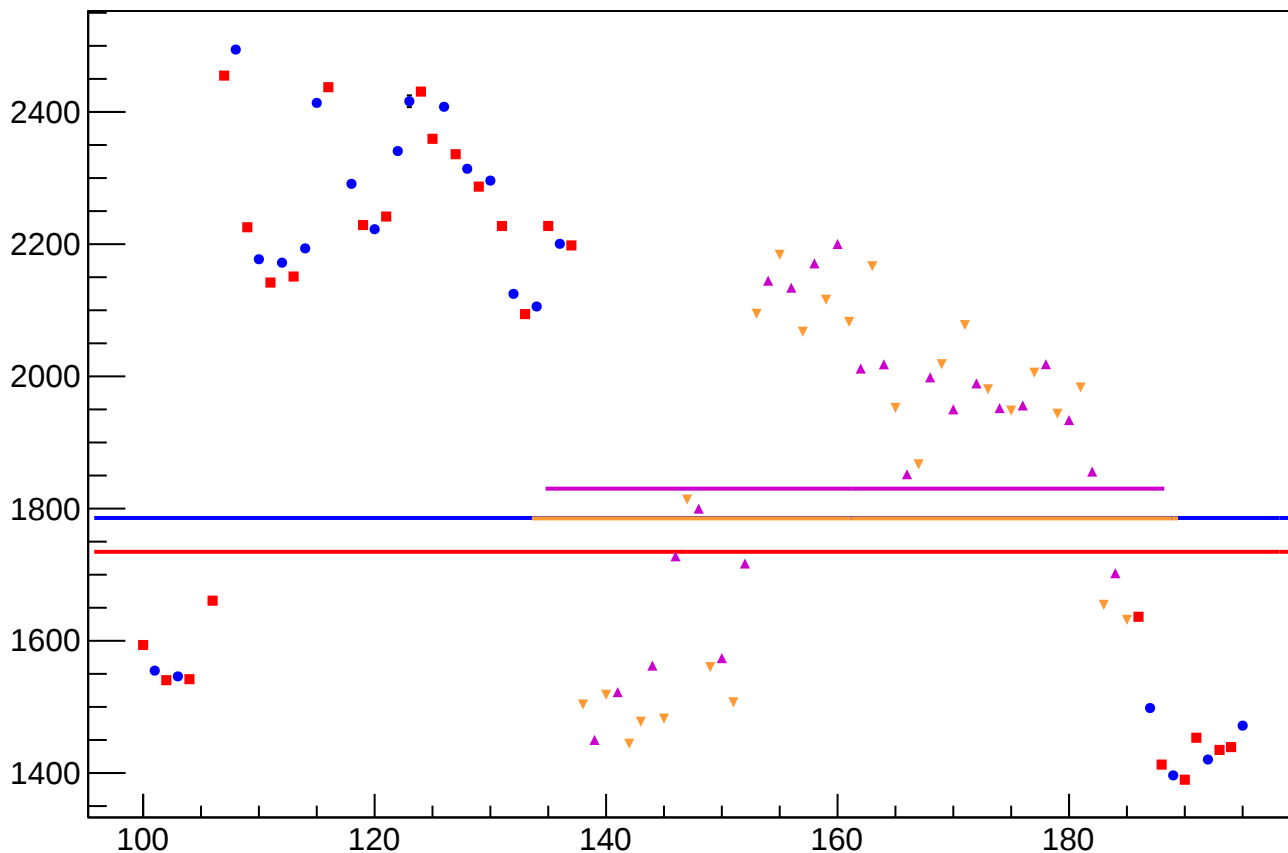
Right: 1.930 ± 0.406 χ^2/NDF : 3840.2/45

In: 3.333 ± 0.358 χ^2/NDF : 1915.4/43

Out: -0.903 ± 0.333 χ^2/NDF : 2684.1/49

All: 1.064 ± 0.244 χ^2/NDF : 4674.5/93

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1785.817 ± 0.429 $\chi^2/\text{NDF}: 844248.7/20$

Left Out: 1785.179 ± 0.297 $\chi^2/\text{NDF}: 750628.1/24$

Right Out: 1734.638 ± 0.386 $\chi^2/\text{NDF}: 937878.0/24$

Left In: 1830.160 ± 0.313 $\chi^2/\text{NDF}: 508391.9/22$

Left: 1806.491 ± 0.216 $\chi^2/\text{NDF}: 1269853.4/47$

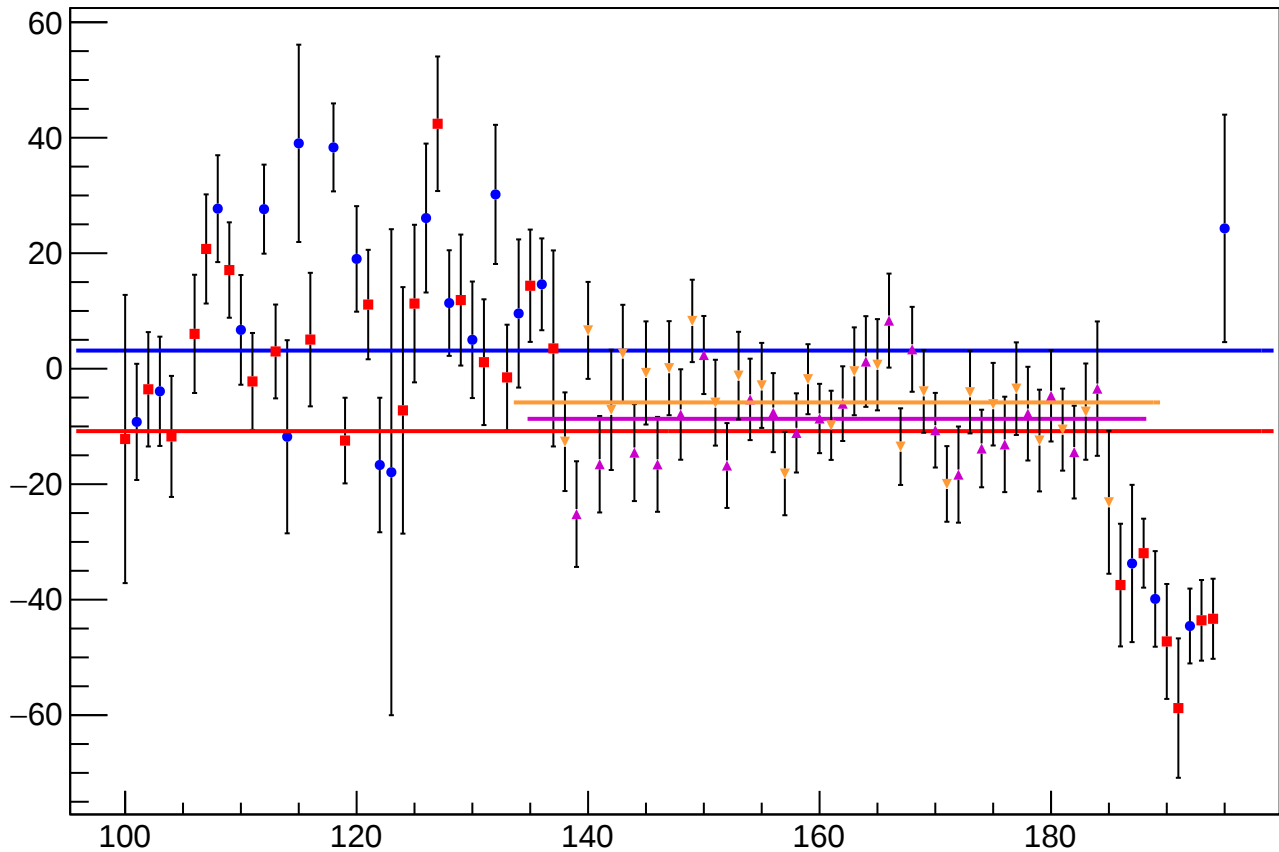
Right: 1757.551 ± 0.287 $\chi^2/\text{NDF}: 1790001.9/45$

In: 1814.705 ± 0.253 $\chi^2/\text{NDF}: 1359614.2/43$

Out: 1766.340 ± 0.236 $\chi^2/\text{NDF}: 1699266.4/49$

All: 1788.799 ± 0.172 $\chi^2/\text{NDF}: 3078450.8/93$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 3.140 ± 2.194 χ^2/NDF : 153.1/20

Left Out: -5.840 ± 1.518 χ^2/NDF : 23.3/24

Right Out: -10.812 ± 1.908 χ^2/NDF : 166.2/24

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

Left: -7.214 ± 1.092 χ^2/NDF : 47.0/47

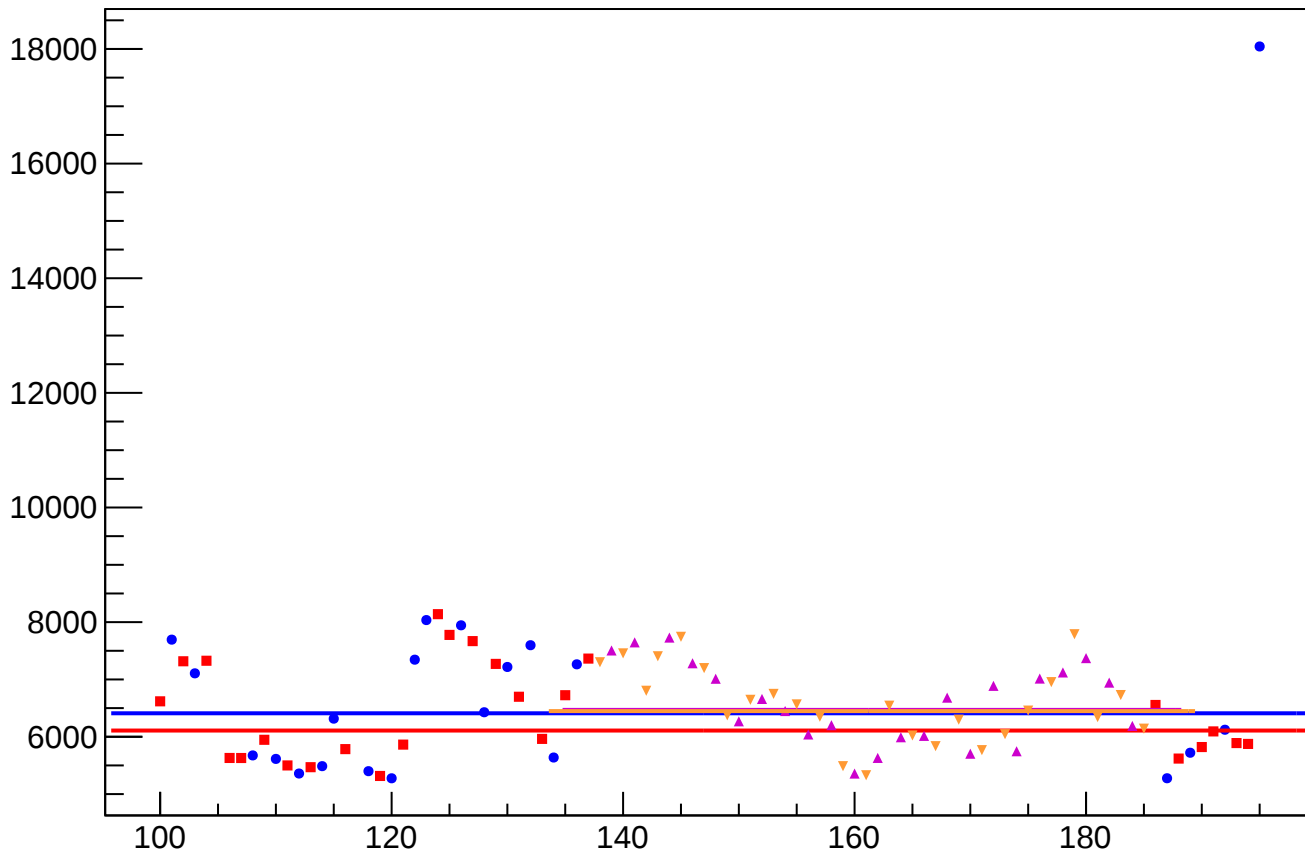
Right: -4.805 ± 1.440 χ^2/NDF : 342.3/45

In: -4.678 ± 1.277 χ^2/NDF : 194.2/43

Out: -7.768 ± 1.188 χ^2/NDF : 193.7/49

All: -6.335 ± 0.870 χ^2/NDF : 391.0/93

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6409.732 $\pm$ 1.552 χ^2 /NDF: 1015455.3/20

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

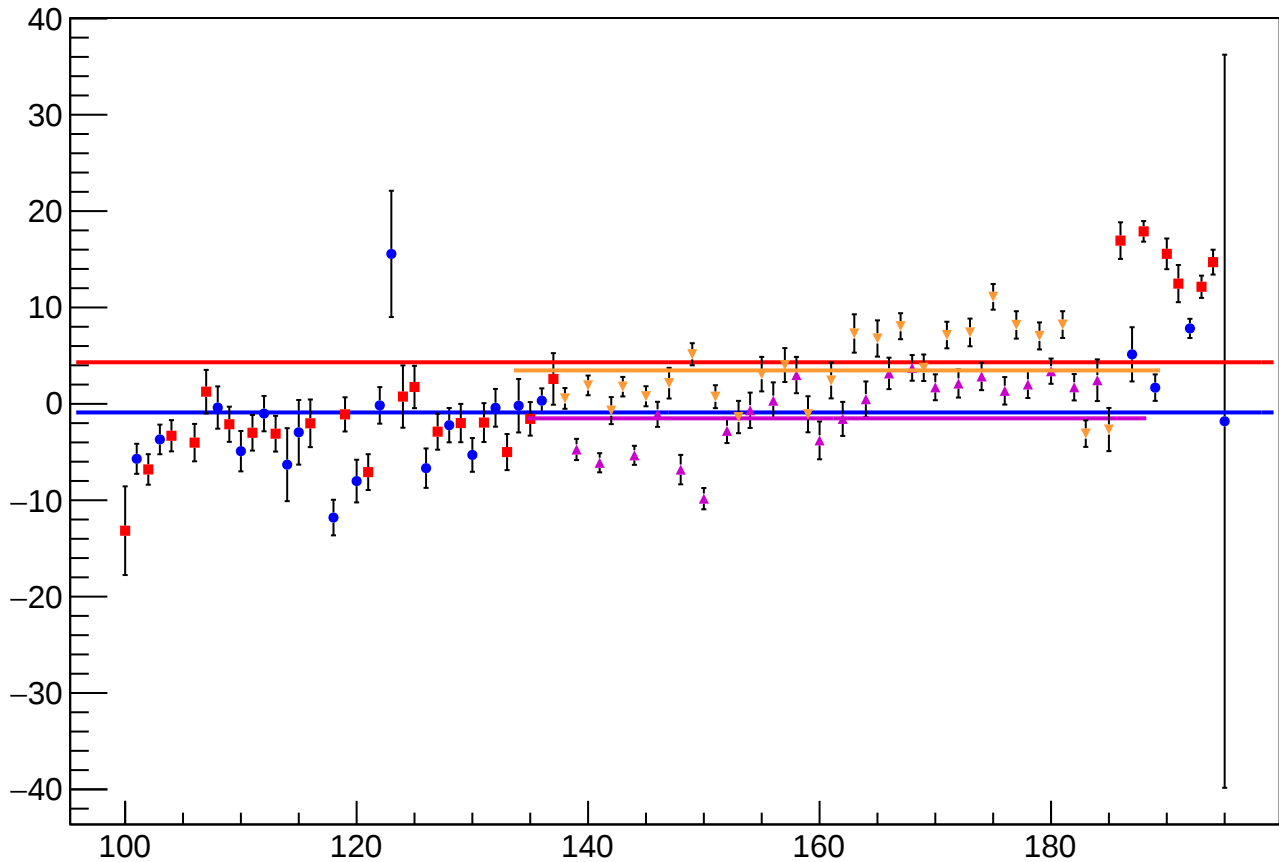
Right: 6238.256 $\pm$ 1.018 χ^2 /NDF: 1306482.8/45

In: 6448.857 $\pm$ 0.903 χ^2 /NDF: 1399742.3/43

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

All: 6377.756 $\pm$ 0.615 χ^2 /NDF: 2091236.6/93

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.891 ± 0.406 $\chi^2/\text{NDF}: 171.3/20$

Left Out: 3.470 ± 0.276 $\chi^2/\text{NDF}: 176.0/24$

Right Out: 4.314 ± 0.355 $\chi^2/\text{NDF}: 662.0/24$

Left In: -1.502 ± 0.291 $\chi^2/\text{NDF}: 202.7/22$

Left: 1.109 ± 0.200 $\chi^2/\text{NDF}: 532.4/47$

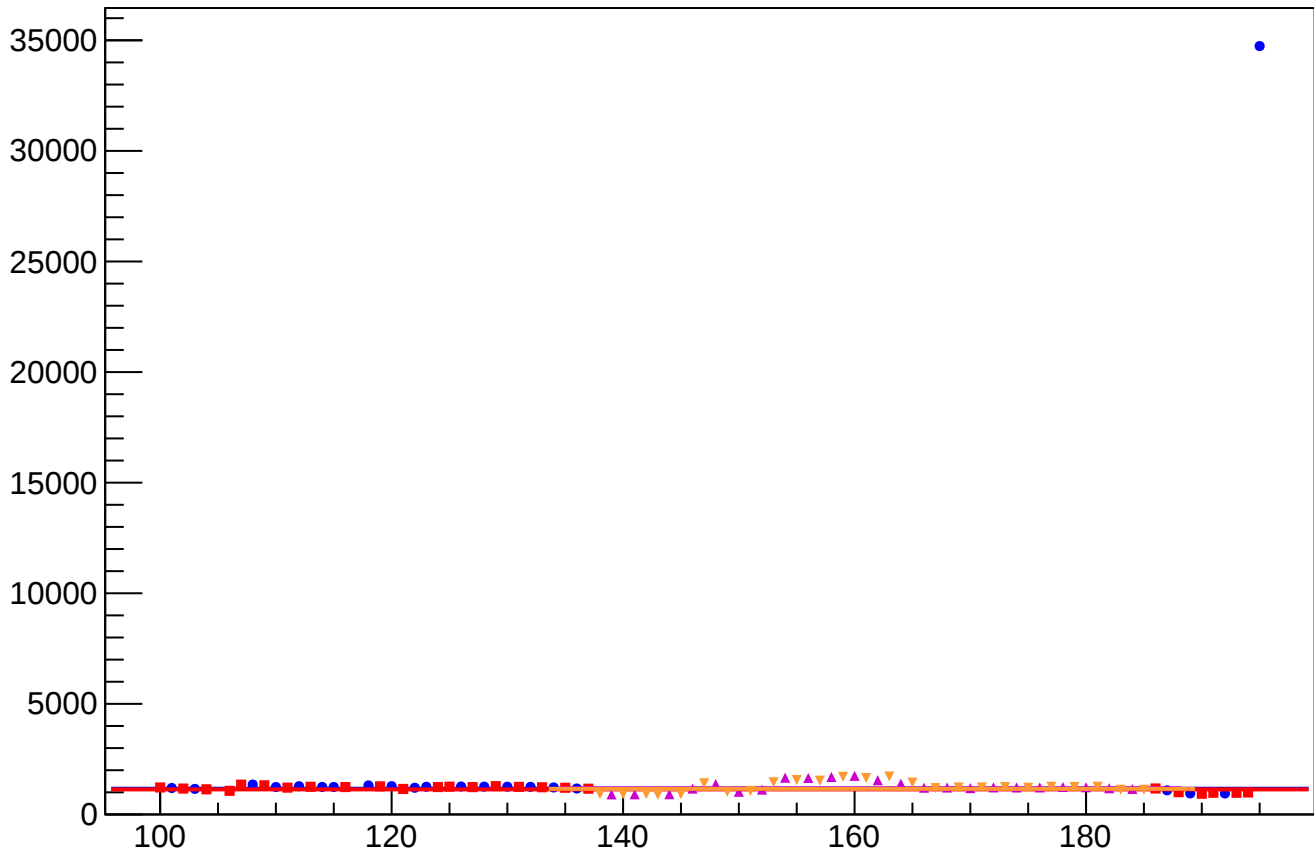
Right: 2.060 ± 0.267 $\chi^2/\text{NDF}: 926.6/45$

In: -1.295 ± 0.236 $\chi^2/\text{NDF}: 375.5/43$

Out: 3.789 ± 0.218 $\chi^2/\text{NDF}: 841.5/49$

All: 1.452 ± 0.160 $\chi^2/\text{NDF}: 1467.2/93$

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1162.851+/-0.287 χ^2/NDF : 1767665.0/20

Left Out: 1158.894+/-0.195 χ^2/NDF : 1410423.6/24

Right Out: 1132.506+/-0.251 χ^2/NDF : 240953.1/24

Left In: 1184.966+/-0.206 χ^2/NDF : 1190431.5/22

Left: 1171.274+/-0.142 χ^2/NDF : 2609306.9/47

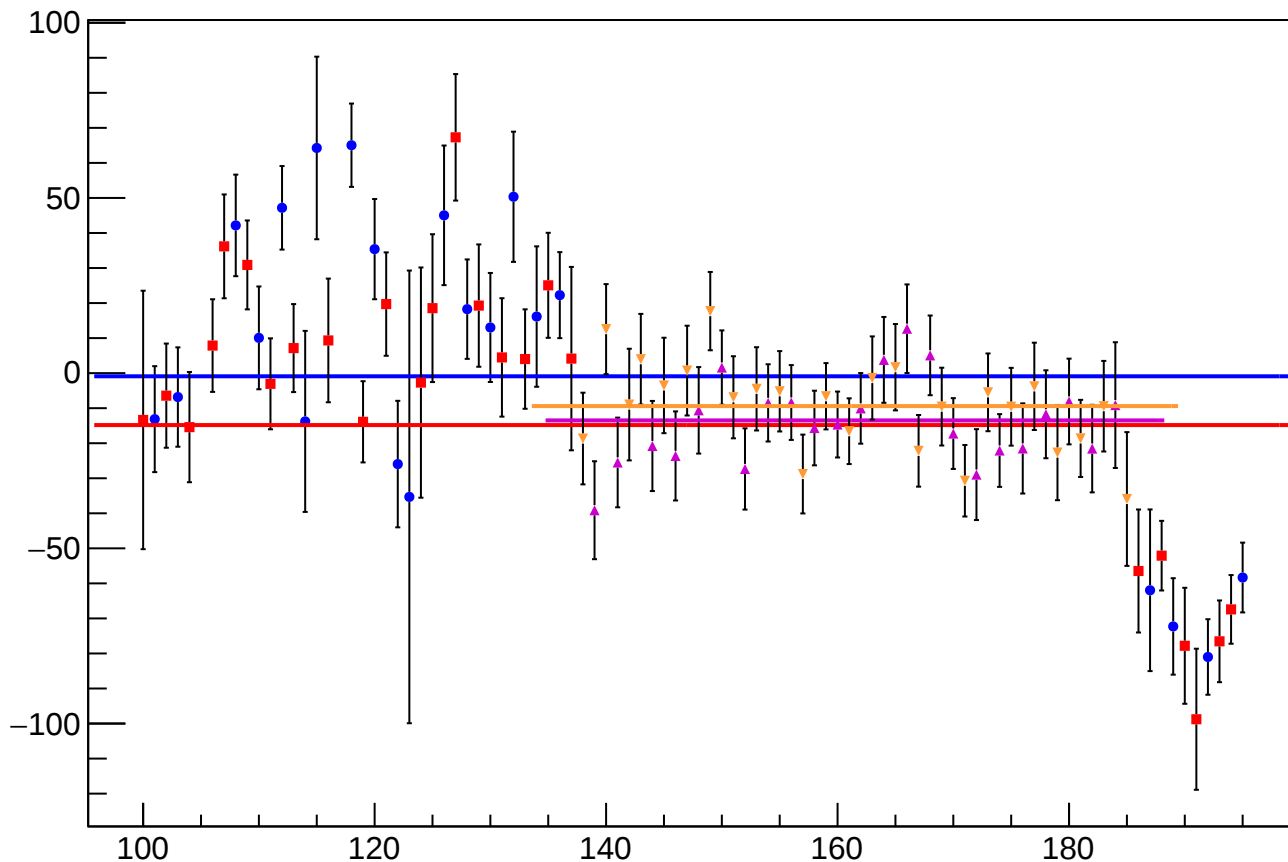
Right: 1145.647+/-0.189 χ^2/NDF : 2014959.4/45

In: 1177.467+/-0.167 χ^2/NDF : 2962023.0/43

Out: 1148.923+/-0.154 χ^2/NDF : 1658266.0/49

All: 1162.048+/-0.113 χ^2/NDF : 4636056.0/93

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.898 $\pm$ 3.270 χ^2/NDF : 214.6/20

Left Out: -9.398 $\pm$ 2.358 χ^2/NDF : 26.3/24

Right Out: -14.818 $\pm$ 2.955 χ^2/NDF : 185.6/24

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

Left: -11.369 $\pm$ 1.697 χ^2/NDF : 49.3/47

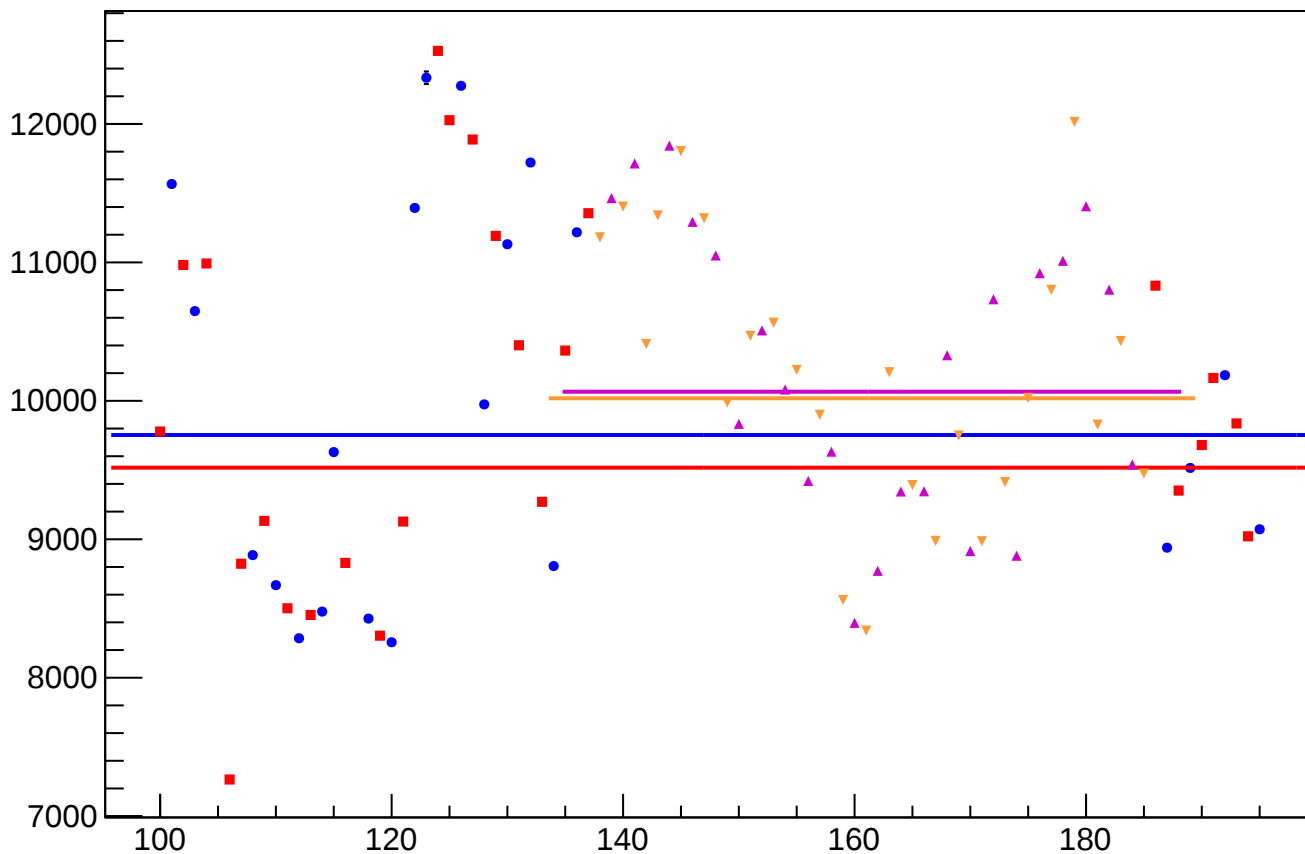
Right: -8.560 $\pm$ 2.193 χ^2/NDF : 410.1/45

In: -8.977 $\pm$ 1.957 χ^2/NDF : 245.7/43

Out: -11.507 $\pm$ 1.843 χ^2/NDF : 213.9/49

All: -10.317 $\pm$ 1.342 χ^2/NDF : 460.5/93

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9753.301 ± 2.312 $\chi^2/\text{NDF}: 275796.8/20$

Left Out: 10018.563 ± 1.668 $\chi^2/\text{NDF}: 344534.6/24$

Right Out: 9517.444 ± 2.090 $\chi^2/\text{NDF}: 295344.8/24$

Left In: 10065.909 ± 1.727 $\chi^2/\text{NDF}: 357868.9/22$

Left: 10041.404 ± 1.200 $\chi^2/\text{NDF}: 702792.3/47$

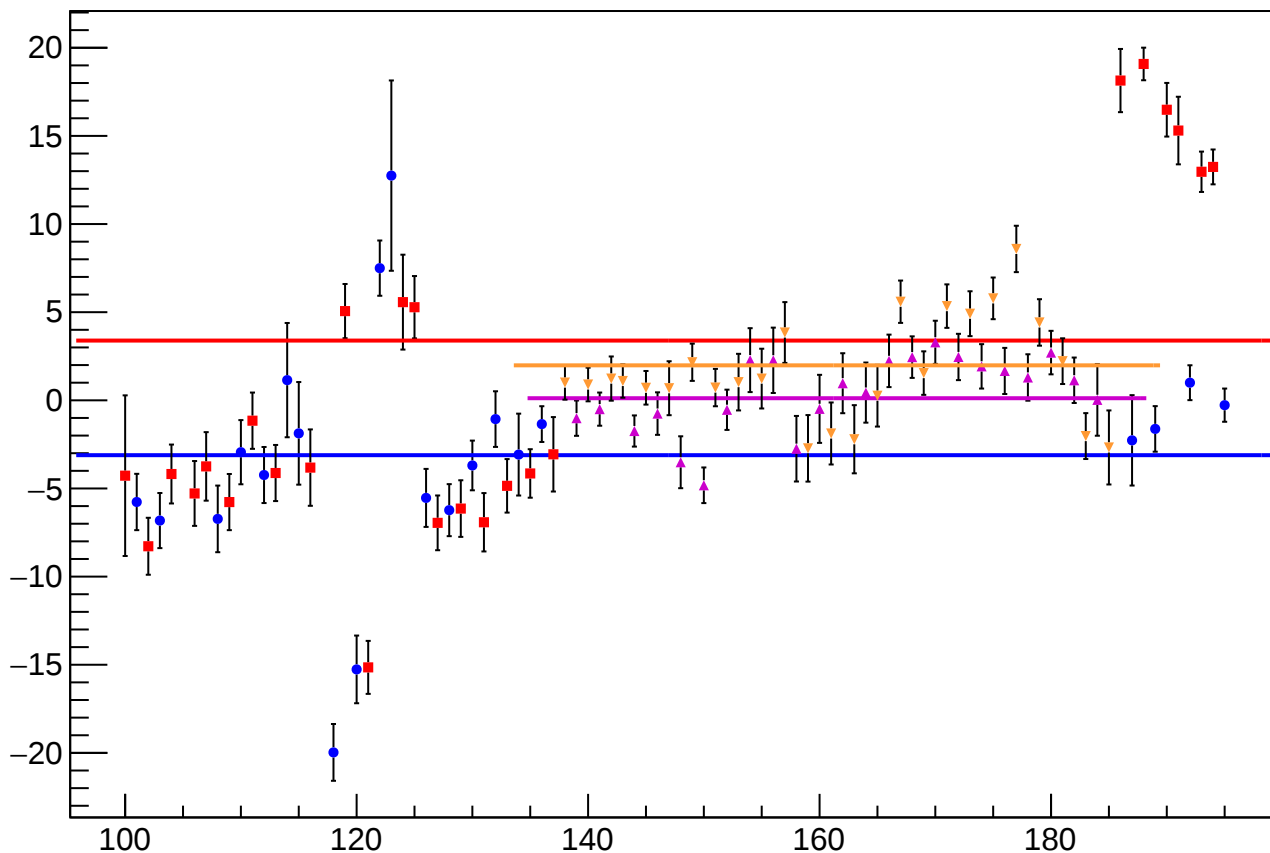
Right: 9623.481 ± 1.550 $\chi^2/\text{NDF}: 576868.6/45$

In: 9953.940 ± 1.384 $\chi^2/\text{NDF}: 645397.0/43$

Out: 9823.587 ± 1.303 $\chi^2/\text{NDF}: 675010.0/49$

All: 9884.870 ± 0.949 $\chi^2/\text{NDF}: 1325108.6/93$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -3.112 ± 0.336 $\chi^2/\text{NDF}: 257.8/20$

Left Out: 1.985 ± 0.255 $\chi^2/\text{NDF}: 101.2/24$

Right Out: 3.390 ± 0.310 $\chi^2/\text{NDF}: 1166.2/24$

Left In: 0.120 ± 0.269 $\chi^2/\text{NDF}: 67.6/22$

Left: 1.102 ± 0.185 $\chi^2/\text{NDF}: 194.2/47$

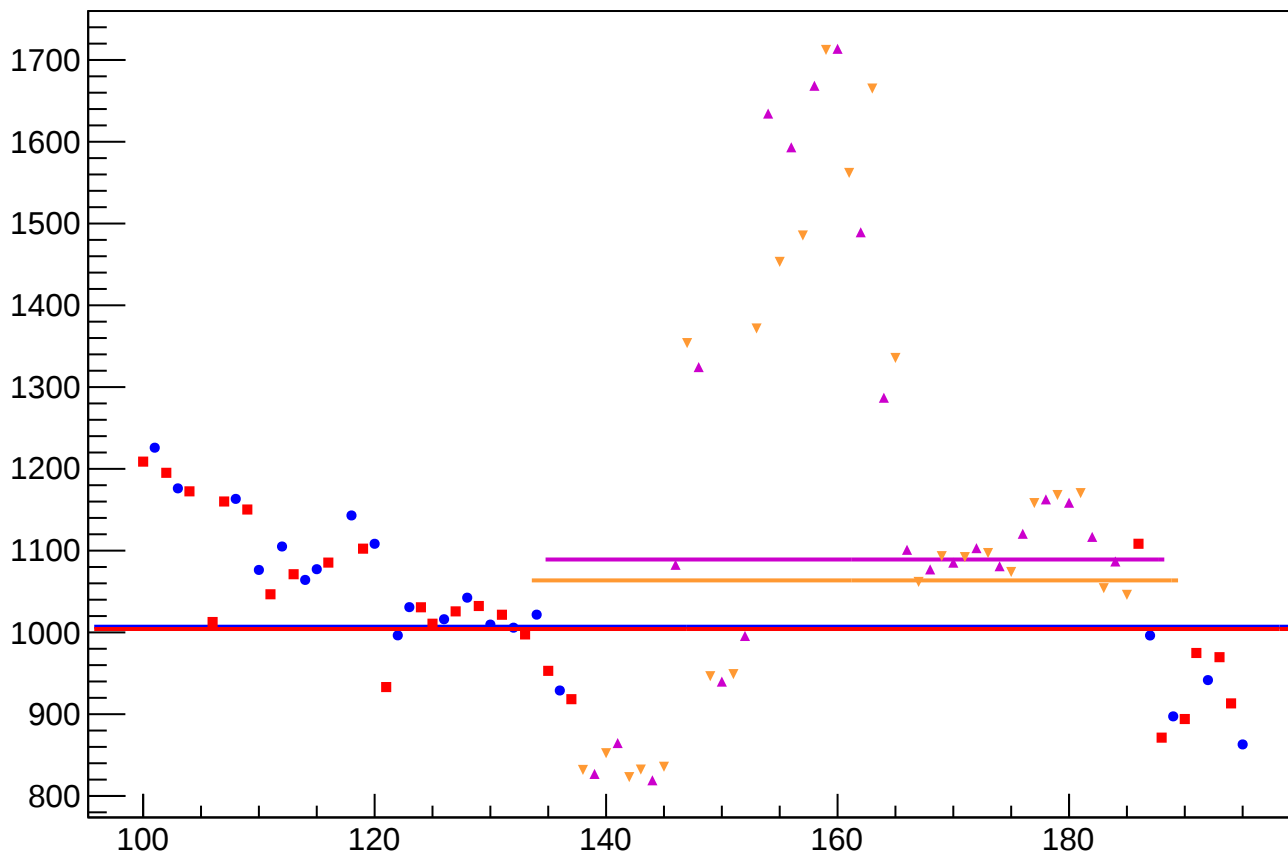
Right: 0.394 ± 0.228 $\chi^2/\text{NDF}: 1626.4/45$

In: -1.143 ± 0.210 $\chi^2/\text{NDF}: 381.9/43$

Out: 2.551 ± 0.197 $\chi^2/\text{NDF}: 1279.6/49$

All: 0.821 ± 0.144 $\chi^2/\text{NDF}: 1826.4/93$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1006.966 ± 0.237 $\chi^2/\text{NDF}: 189932.6/20$

Left Out: 1063.600 ± 0.180 $\chi^2/\text{NDF}: 1617376.3/24$

Right Out: 1004.165 ± 0.219 $\chi^2/\text{NDF}: 187778.5/24$

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

Left: 1075.700 ± 0.131 $\chi^2/\text{NDF}: 3057378.7/47$

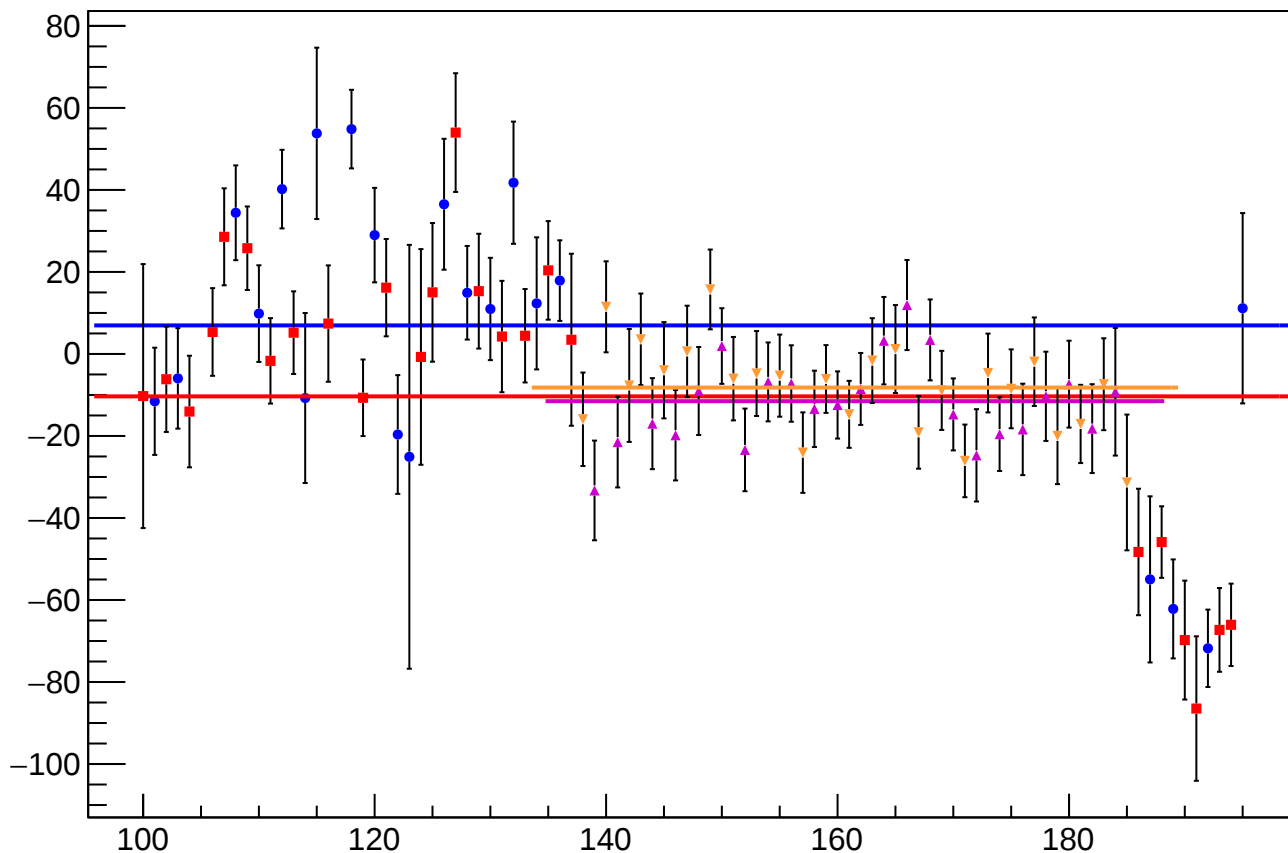
Right: 1005.456 ± 0.161 $\chi^2/\text{NDF}: 377786.2/45$

In: 1057.045 ± 0.148 $\chi^2/\text{NDF}: 1693516.4/43$

Out: 1039.651 ± 0.139 $\chi^2/\text{NDF}: 1849001.6/49$

All: 1047.799 ± 0.102 $\chi^2/\text{NDF}: 3549830.6/93$

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 6.960 ± 2.824 $\chi^2/\text{NDF}: 181.6/20$

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 $\chi^2/\text{NDF}: 48.5/47$

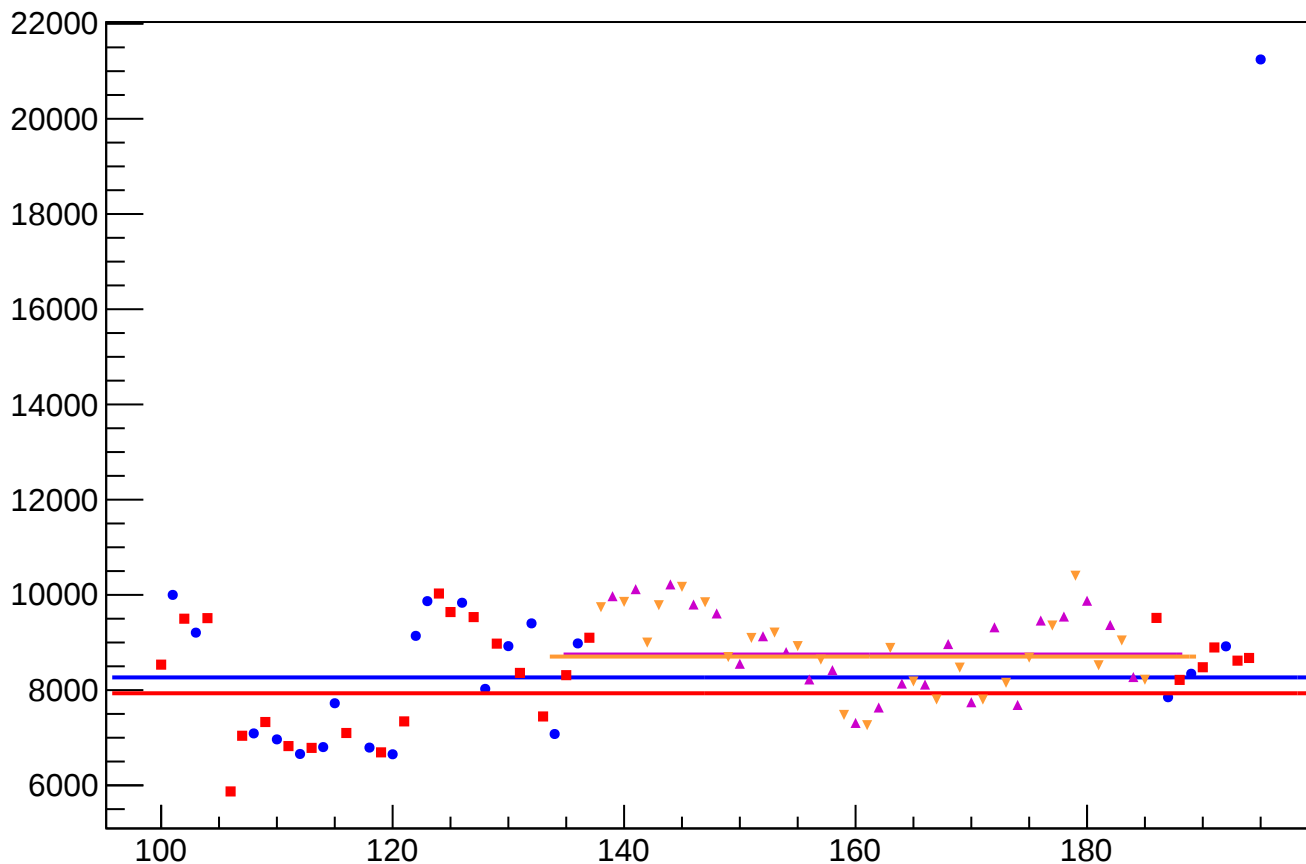
Right: -2.807 ± 1.864 $\chi^2/\text{NDF}: 393.4/45$

In: -4.847 ± 1.697 $\chi^2/\text{NDF}: 230.0/43$

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

All: -7.107 ± 1.156 $\chi^2/\text{NDF}: 450.5/93$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8266.822 $\pm$ 1.997 χ^2/NDF : 950305.0/20

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

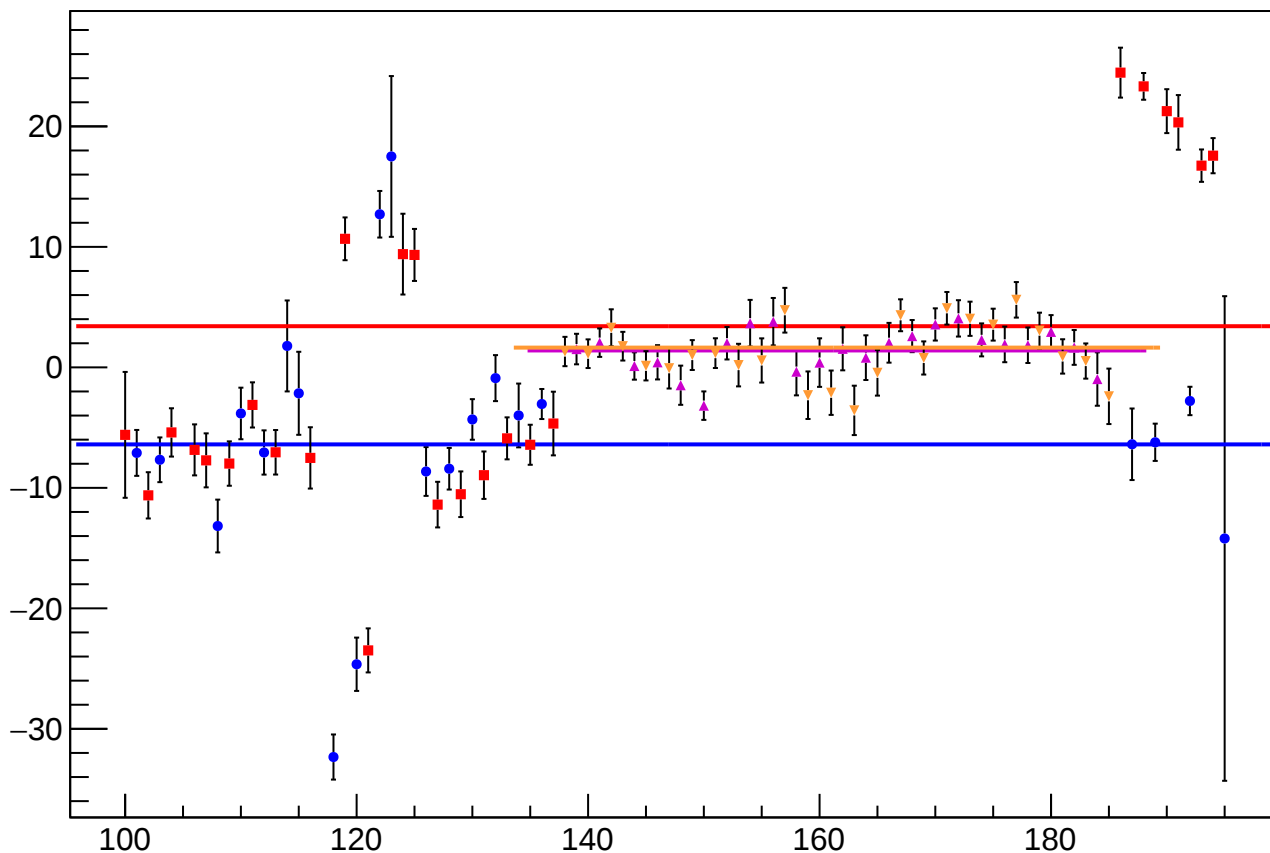
Right: 8078.758 $\pm$ 1.318 χ^2/NDF : 1346156.2/45

In: 8573.950 $\pm$ 1.200 χ^2/NDF : 1334431.1/43

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

All: 8476.352 $\pm$ 0.817 χ^2/NDF : 2174014.1/93

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.393 ± 0.428 $\chi^2/\text{NDF}: 418.5/20$

Left Out: 1.639 ± 0.294 $\chi^2/\text{NDF}: 51.3/24$

Right Out: 3.416 ± 0.374 $\chi^2/\text{NDF}: 1465.9/24$

Left In: 1.404 ± 0.309 $\chi^2/\text{NDF}: 34.1/22$

Left: 1.528 ± 0.213 $\chi^2/\text{NDF}: 85.8/47$

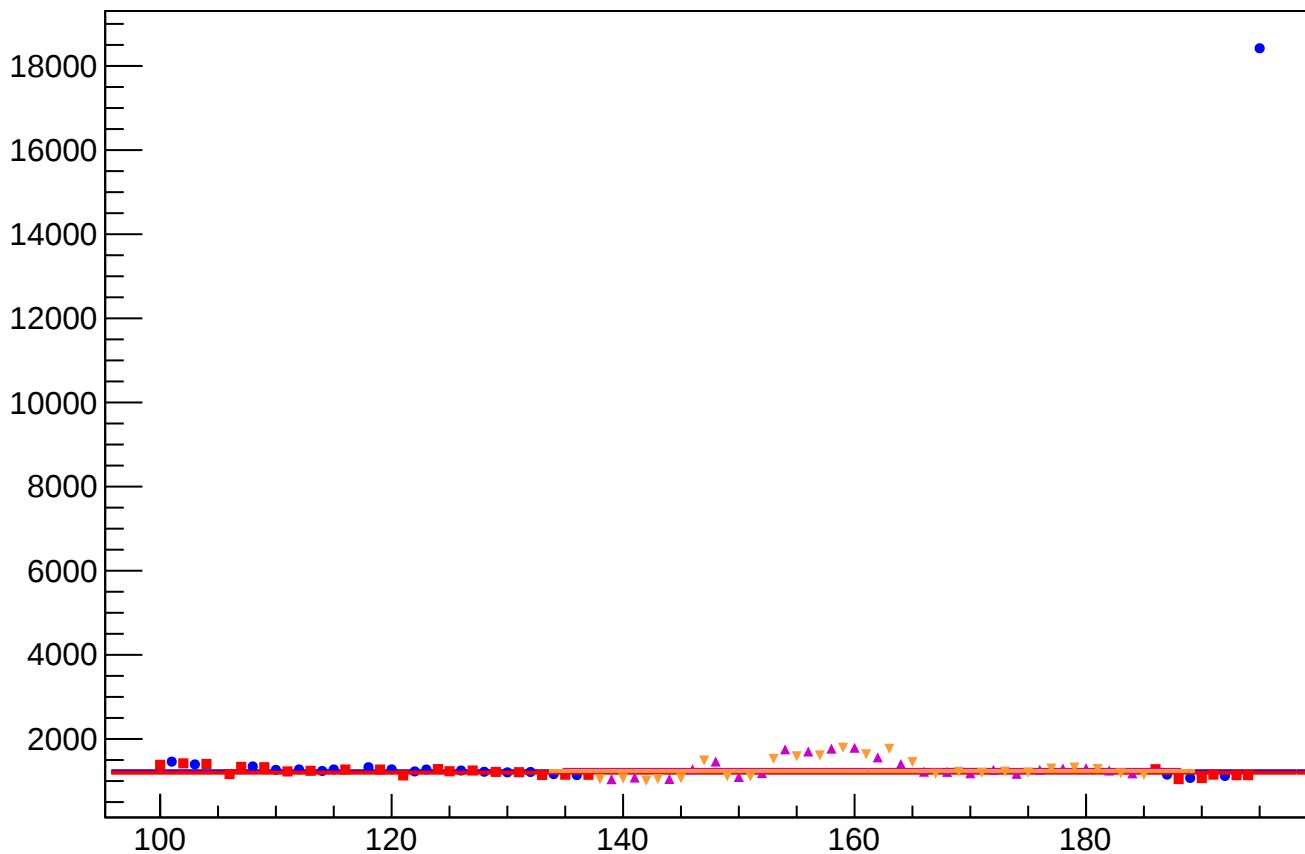
Right: -0.839 ± 0.282 $\chi^2/\text{NDF}: 2182.3/45$

In: -1.271 ± 0.250 $\chi^2/\text{NDF}: 671.1/43$

Out: 2.316 ± 0.231 $\chi^2/\text{NDF}: 1531.1/49$

All: 0.667 ± 0.170 $\chi^2/\text{NDF}: 2313.1/93$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1232.706 $\pm$ 0.302 χ^2 /NDF: 1572432.9/20

Left Out: 1238.437 $\pm$ 0.208 χ^2 /NDF: 965173.0/24

Right Out: 1198.531 $\pm$ 0.265 χ^2 /NDF: 145041.0/24

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

Left: 1251.361 $\pm$ 0.151 χ^2 /NDF: 1818496.6/47

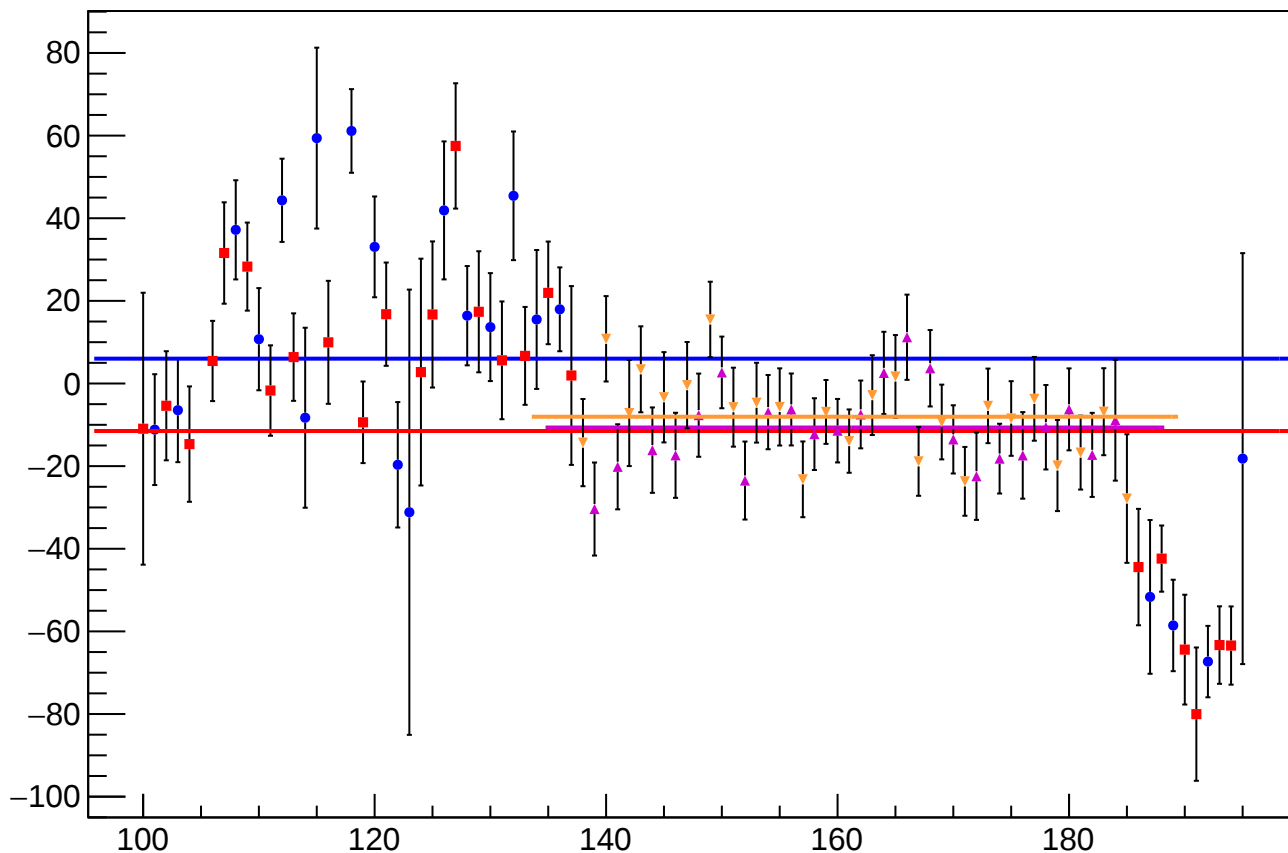
Right: 1213.355 $\pm$ 0.199 χ^2 /NDF: 1724709.1/45

In: 1254.363 $\pm$ 0.177 χ^2 /NDF: 2425401.1/43

Out: 1223.231 $\pm$ 0.163 χ^2 /NDF: 1124291.6/49

All: 1237.542 $\pm$ 0.120 χ^2 /NDF: 3566391.9/93

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 6.013 ± 2.897 χ^2/NDF : 197.9/20

Left Out: -8.042 ± 1.918 χ^2/NDF : 26.3/24

Right Out: -11.496 ± 2.476 χ^2/NDF : 194.1/24

Left In: -10.653 ± 1.988 χ^2/NDF : 21.4/22

Left: -9.301 ± 1.380 χ^2/NDF : 48.6/47

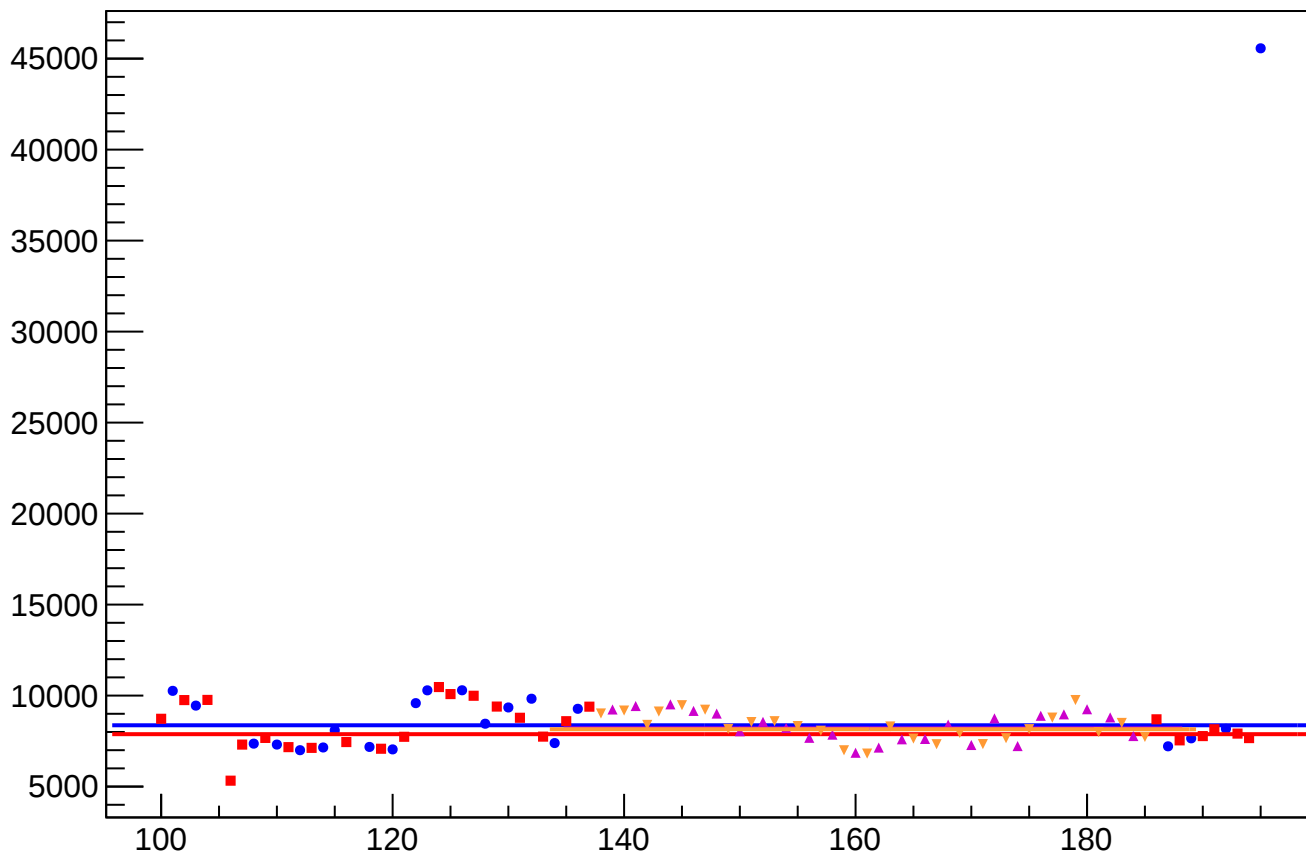
Right: -4.105 ± 1.882 χ^2/NDF : 413.1/45

In: -5.319 ± 1.639 χ^2/NDF : 241.8/43

Out: -9.338 ± 1.516 χ^2/NDF : 221.6/49

All: -7.484 ± 1.113 χ^2/NDF : 466.7/93

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8368.732 $\pm$ 2.049 χ^2 /NDF: 1407620.3/20

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

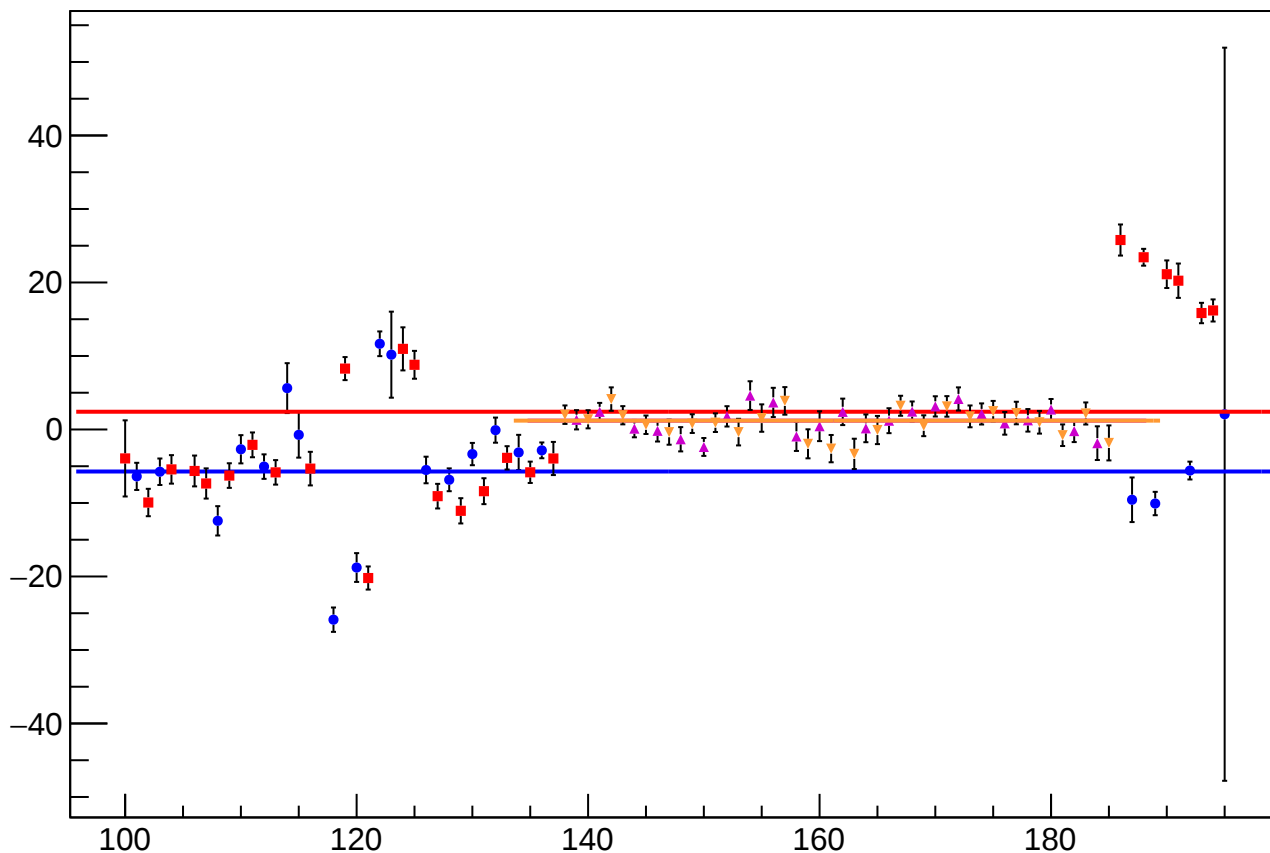
Right: 8086.127 $\pm$ 1.331 χ^2 /NDF: 1841363.4/45

In: 8249.674 $\pm$ 1.159 χ^2 /NDF: 1750965.5/43

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

All: 8141.850 $\pm$ 0.787 χ^2 /NDF: 2504705.5/93

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.717 ± 0.395 χ^2/NDF : 365.8/20

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

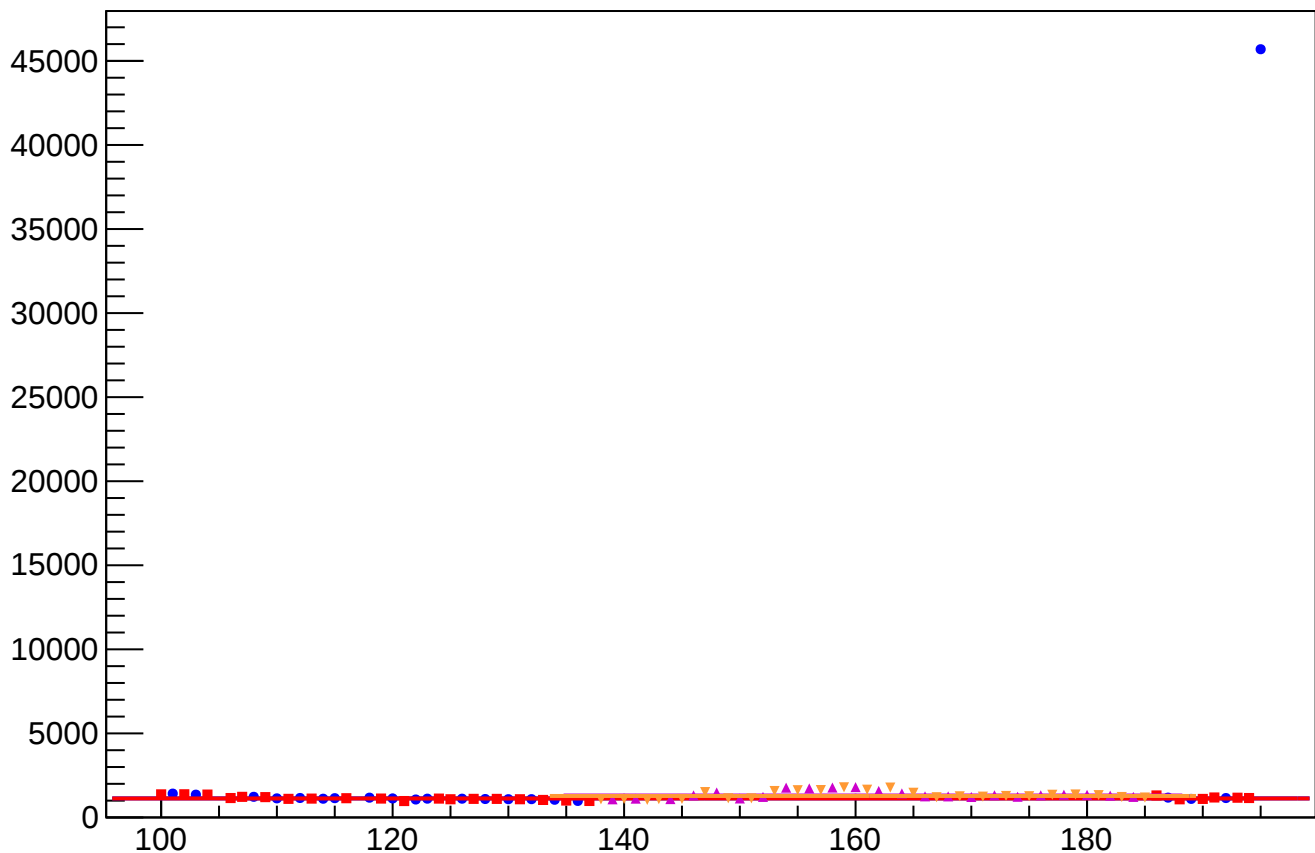
Right: -1.196 ± 0.263 χ^2/NDF : 2007.8/45

In: -1.522 ± 0.248 χ^2/NDF : 582.8/43

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

All: 0.219 ± 0.168 χ^2/NDF : 2117.9/93

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1133.677 $\pm$ 0.279 χ^2/NDF : 1731787.5/20

Left Out: 1277.916 $\pm$ 0.214 χ^2/NDF : 878127.9/24

Right Out: 1129.474 $\pm$ 0.250 χ^2/NDF : 152614.6/24

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

Left: 1291.030 $\pm$ 0.155 χ^2/NDF : 1646499.4/47

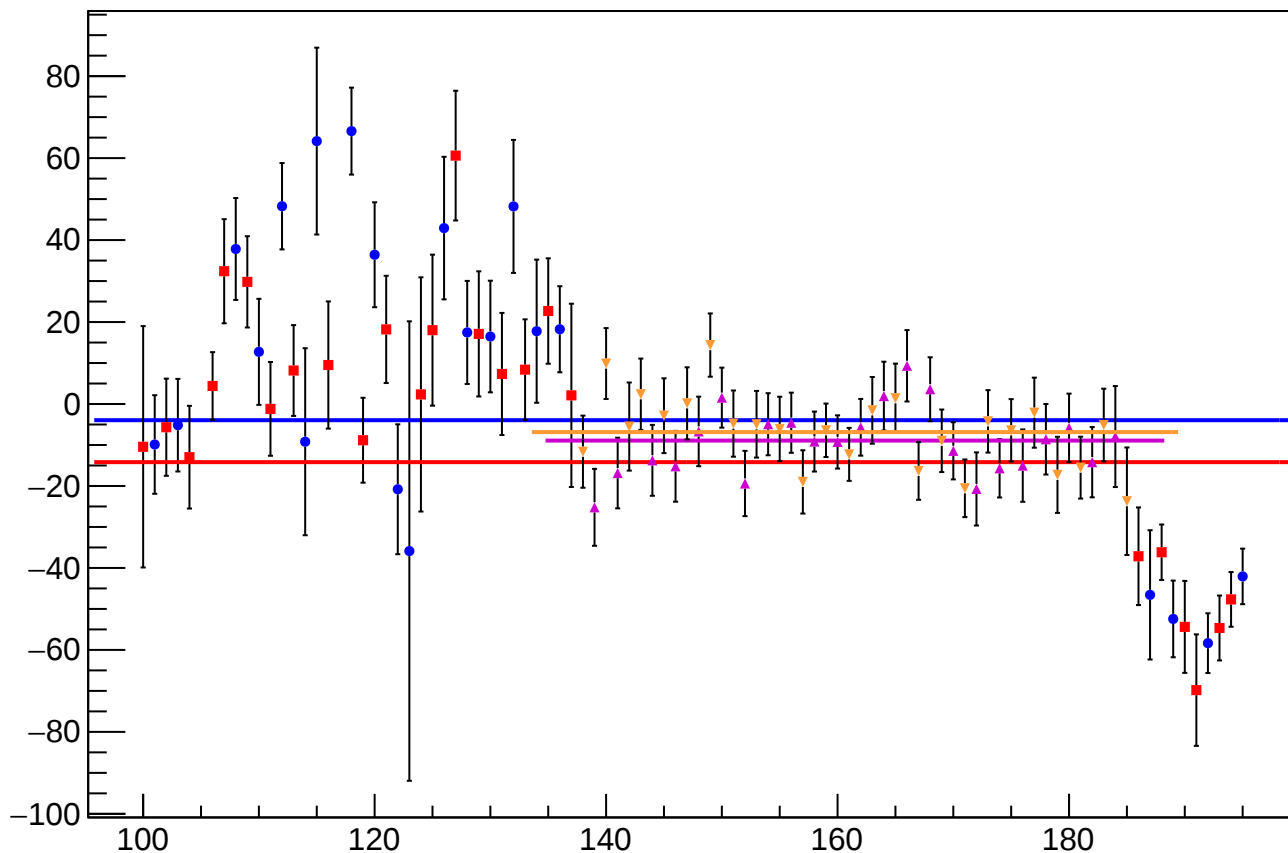
Right: 1131.340 $\pm$ 0.186 χ^2/NDF : 1884528.0/45

In: 1237.944 $\pm$ 0.175 χ^2/NDF : 2721794.4/43

Out: 1215.091 $\pm$ 0.162 χ^2/NDF : 1234652.8/49

All: 1225.652 $\pm$ 0.119 χ^2/NDF : 3965596.2/93

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -3.950 $\pm$ 2.613 χ^2/NDF : 252.5/20

Left Out: -6.854 $\pm$ 1.616 χ^2/NDF : 28.7/24

Right Out: -14.184 $\pm$ 2.289 χ^2/NDF : 188.1/24

Left In: -8.923 $\pm$ 1.674 χ^2/NDF : 21.8/22

Left: -7.852 $\pm$ 1.163 χ^2/NDF : 51.3/47

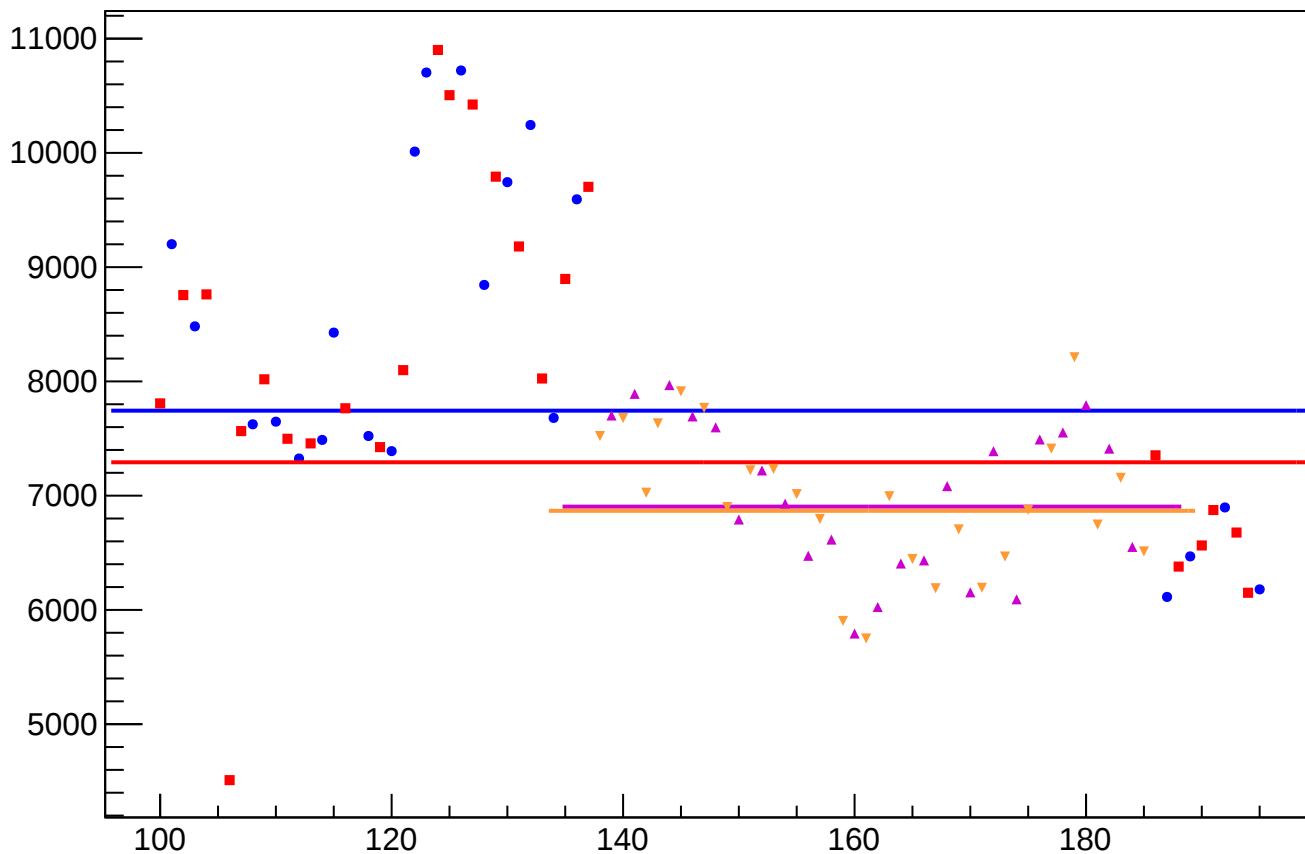
Right: -9.740 $\pm$ 1.721 χ^2/NDF : 449.3/45

In: -7.475 $\pm$ 1.410 χ^2/NDF : 276.9/43

Out: -9.292 $\pm$ 1.320 χ^2/NDF : 223.6/49

All: -8.443 $\pm$ 0.963 χ^2/NDF : 501.4/93

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7743.901 $\pm$ 1.847 χ^2/NDF : 510942.1/20

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

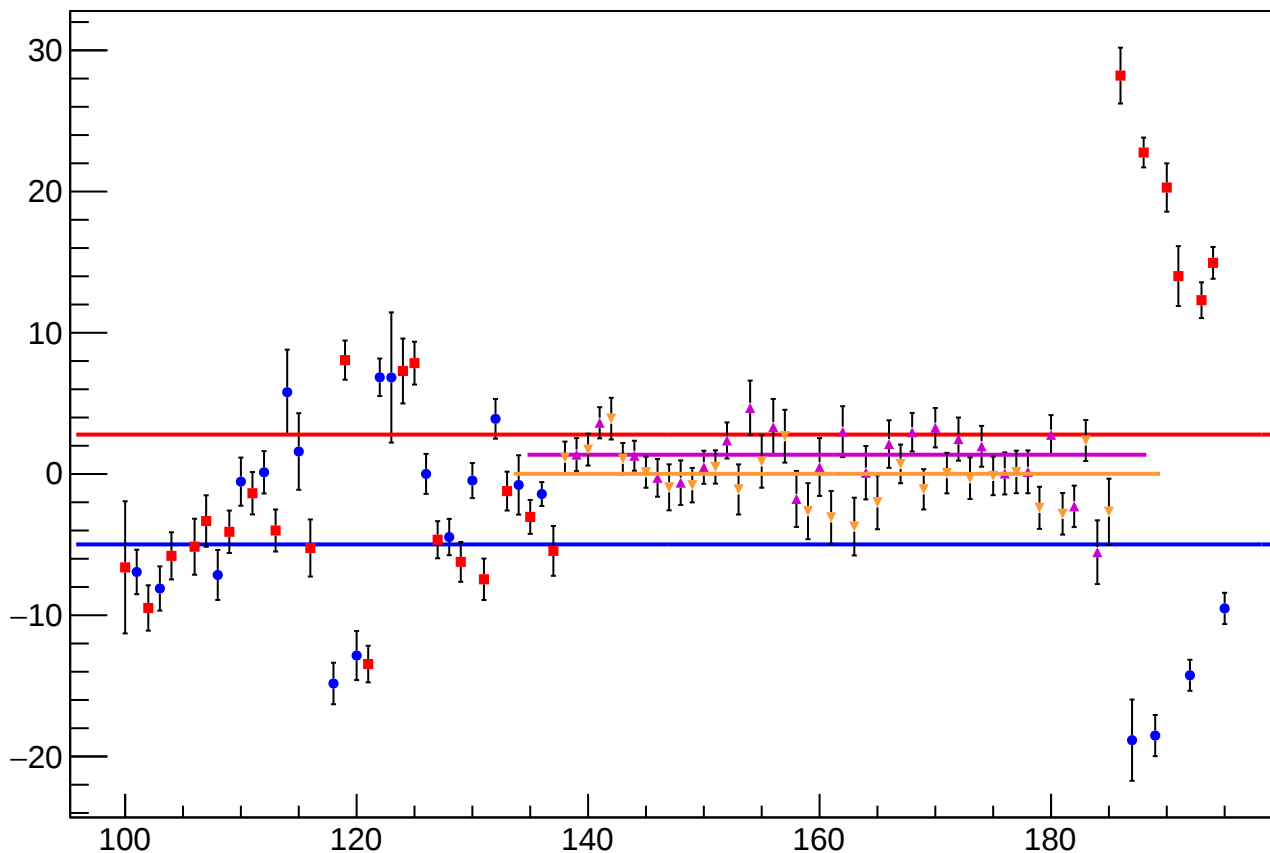
Right: 7488.226 $\pm$ 1.217 χ^2/NDF : 1286672.7/45

In: 7148.614 $\pm$ 0.997 χ^2/NDF : 983340.5/43

Out: 7008.610 $\pm$ 0.933 χ^2/NDF : 1094734.2/49

All: 7074.008 $\pm$ 0.681 χ^2/NDF : 2088587.3/93

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.985 ± 0.321 χ^2/NDF : 480.5/20

Left Out: 0.014 ± 0.290 χ^2/NDF : 35.0/24

Right Out: 2.792 ± 0.303 χ^2/NDF : 1372.5/24

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

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

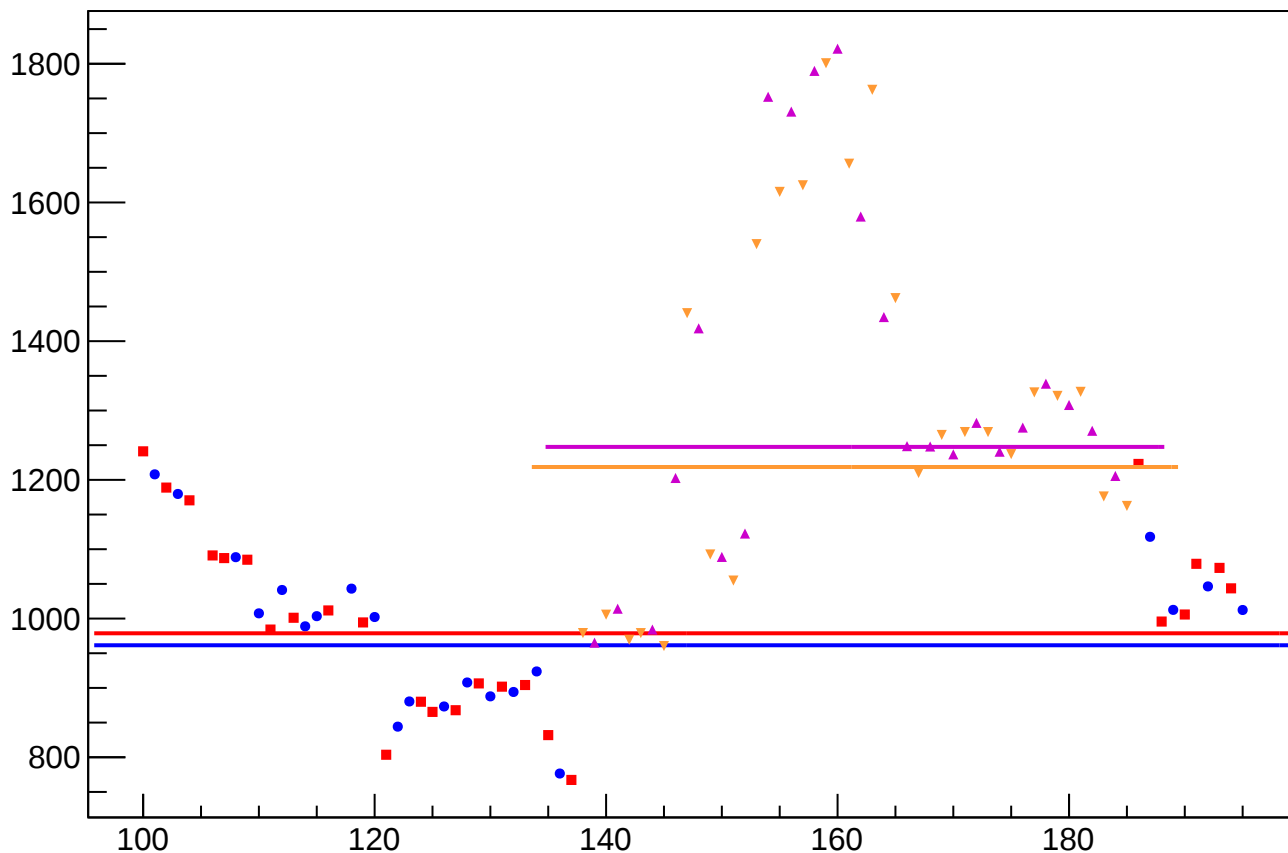
Right: -0.870 ± 0.220 χ^2/NDF : 2163.2/45

In: -1.651 ± 0.221 χ^2/NDF : 724.3/43

Out: 1.342 ± 0.209 χ^2/NDF : 1451.4/49

All: -0.072 ± 0.152 χ^2/NDF : 2272.1/93

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 961.500 $\pm$ 0.227 χ^2 /NDF: 272665.1/20

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

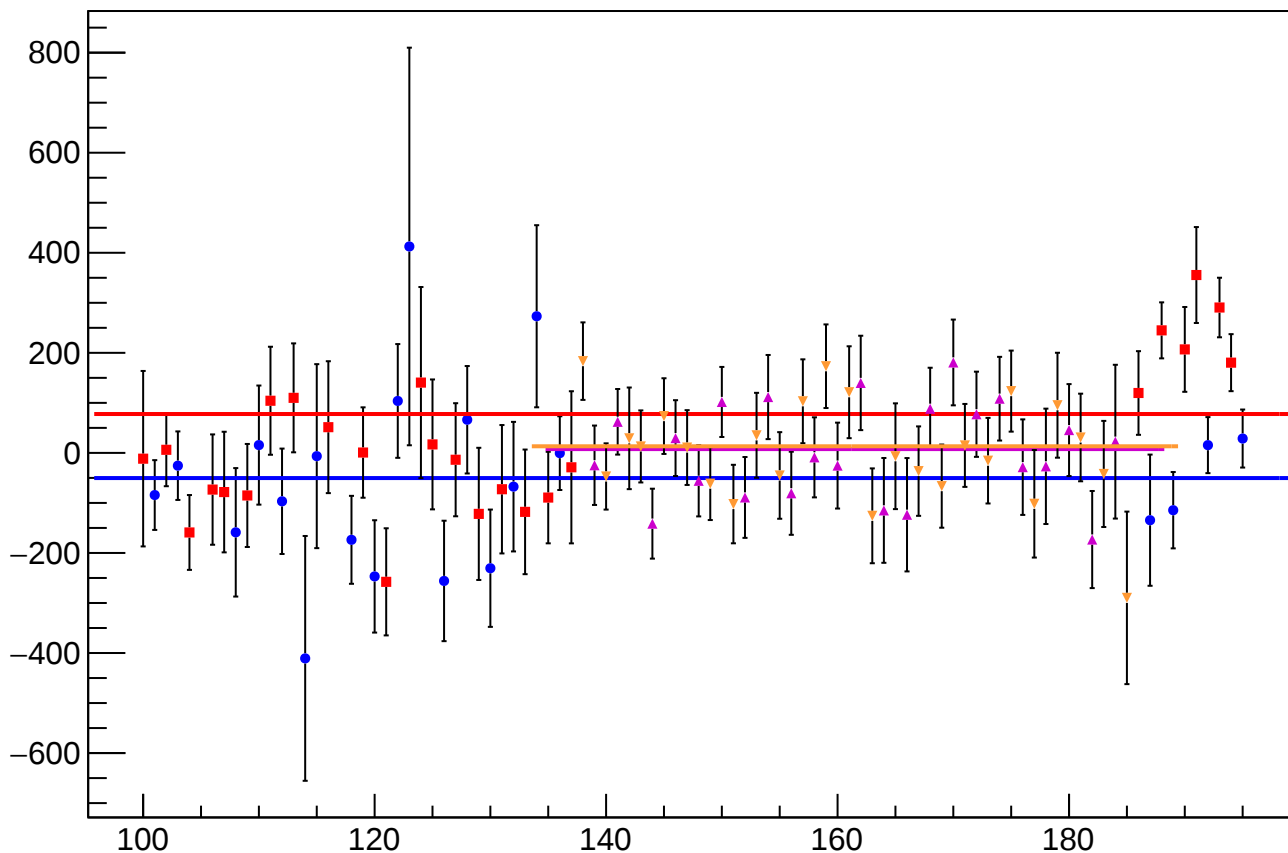
Right: 970.632 $\pm$ 0.156 χ^2 /NDF: 562062.2/45

In: 1111.667 $\pm$ 0.157 χ^2 /NDF:2178891.6/43

Out: 1103.950 $\pm$ 0.148 χ^2 /NDF:2205967.2/49

All: 1107.596 $\pm$ 0.108 χ^2 /NDF: 4386140.9/93

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -50.297 ± 20.728 χ^2/NDF : 26.5/20

Left Out: 13.207 ± 17.146 χ^2/NDF : 26.8/24

Right Out: 77.713 ± 18.591 χ^2/NDF : 74.9/24

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

Left: 10.497 ± 12.306 χ^2/NDF : 55.0/47

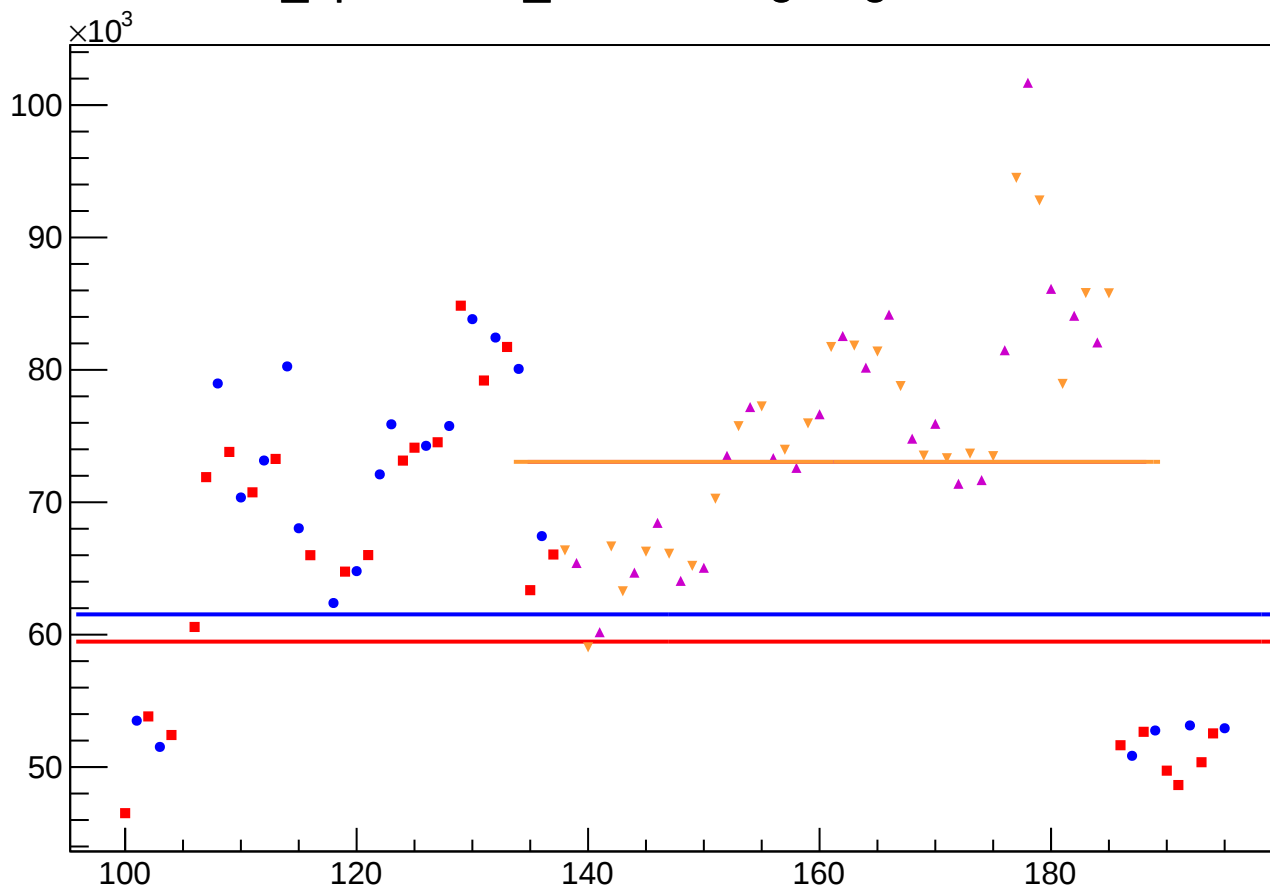
Right: 20.643 ± 13.840 χ^2/NDF : 122.5/45

In: -16.759 ± 13.448 χ^2/NDF : 59.1/43

Out: 42.856 ± 12.604 χ^2/NDF : 108.2/49

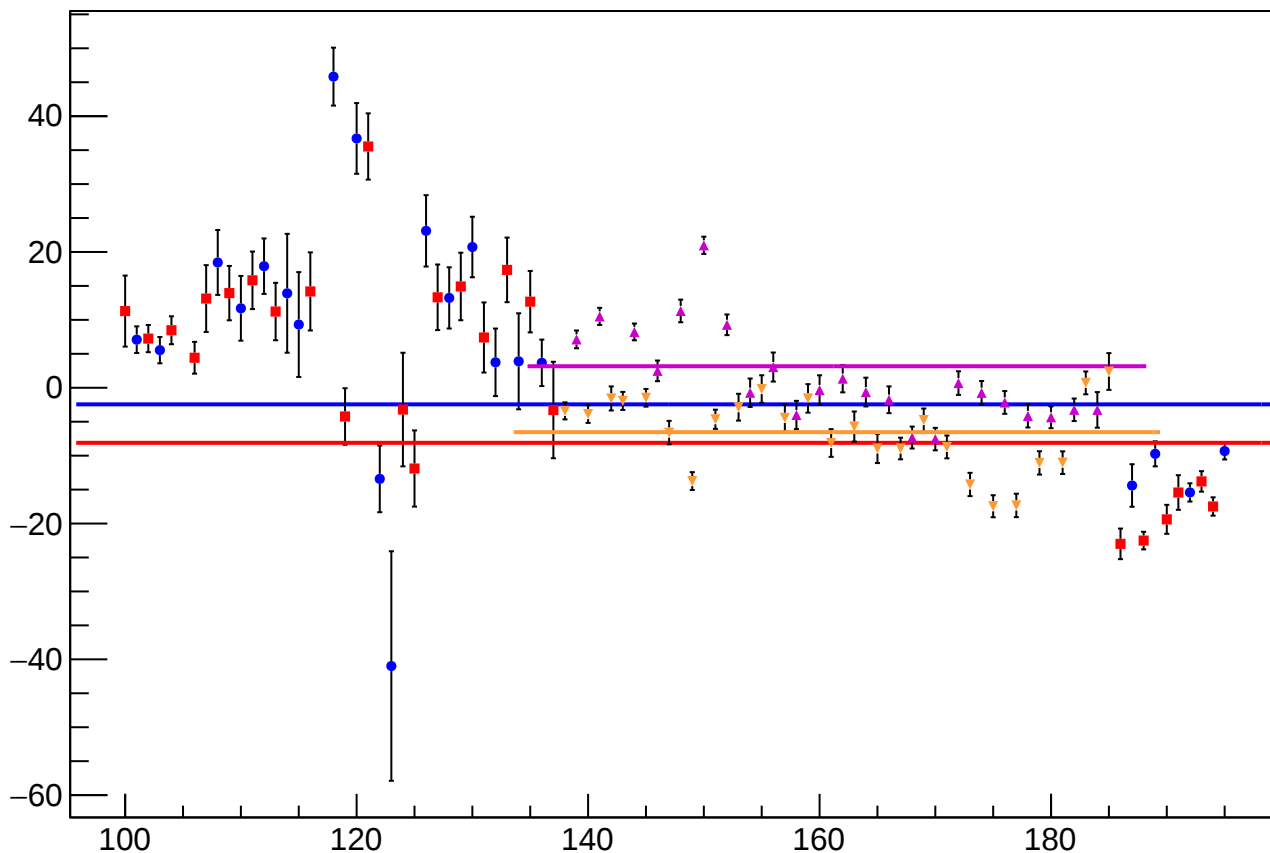
All: 14.977 ± 9.196 χ^2/NDF : 177.8/93

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 61532.040 $\pm$ 14.657	χ^2/NDF : 521743.1/20	Left: 73050.085 $\pm$ 8.701	χ^2/NDF : 936576.6/47
Left Out: 73054.401 $\pm$ 12.124	χ^2/NDF : 473050.9/24	Right: 60391.988 $\pm$ 9.786	χ^2/NDF : 1145729.7/45
Right Out: 59474.827 $\pm$ 13.146	χ^2/NDF : 613068.7/24	In: 68199.284 $\pm$ 9.509	χ^2/NDF : 1342613.1/43
Left In: 73045.500 $\pm$ 12.496	χ^2/NDF : 463525.5/22	Out: 66812.821 $\pm$ 8.912	χ^2/NDF : 1662723.2/49
		All: 67461.207 $\pm$ 6.503	χ^2/NDF : 3016653.6/9

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -2.445 ± 0.606 χ^2/NDF : 516.4/20

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

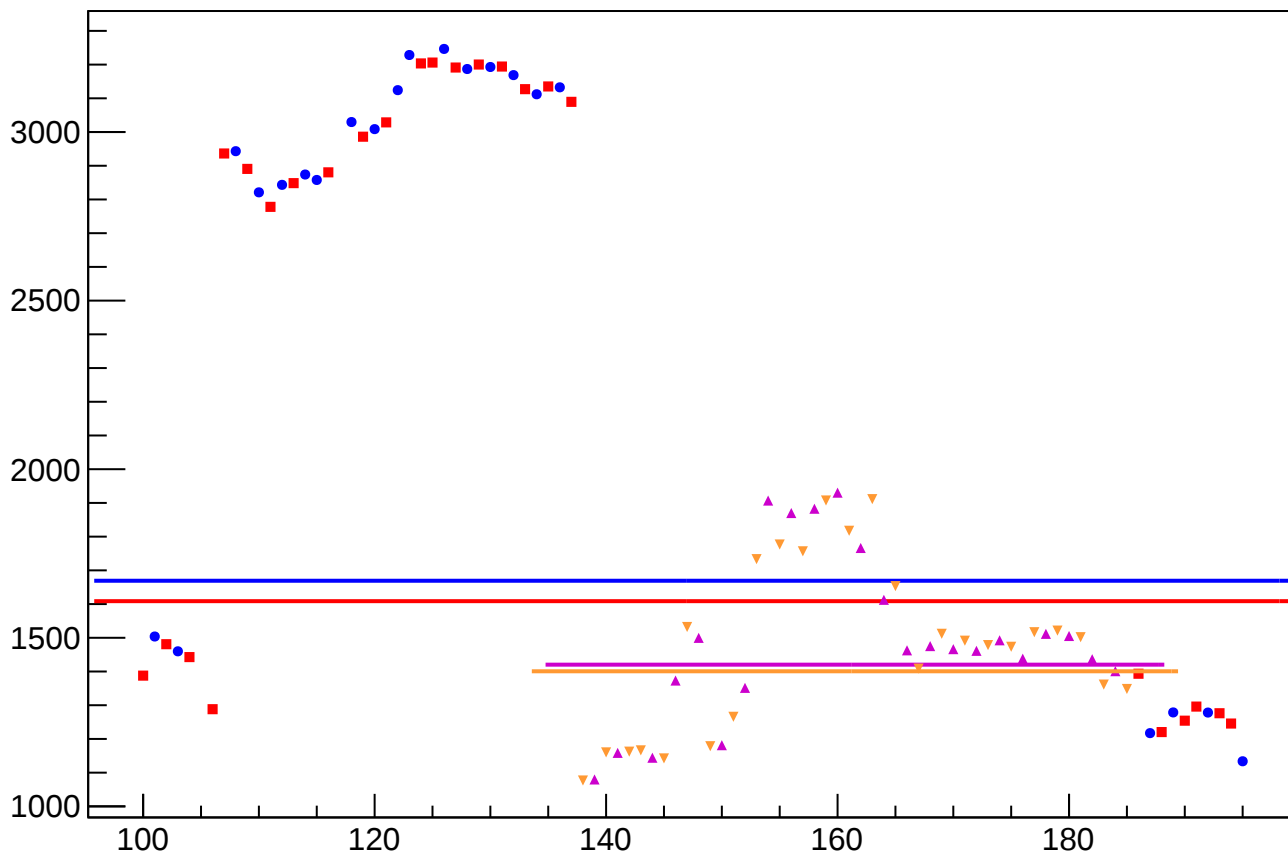
Right: -5.625 ± 0.401 χ^2/NDF : 1296.4/45

In: 1.787 ± 0.301 χ^2/NDF : 1068.5/43

Out: -6.973 ± 0.282 χ^2/NDF : 989.9/49

All: -2.874 ± 0.206 χ^2/NDF : 2509.7/93

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1669.174 $\pm$ 0.428 χ^2 /NDF: 3020683.7/20

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF:1037921.6/24

Right Out: 1608.625 $\pm$ 0.379 χ^2 /NDF: 3109646.3/24

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF:905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

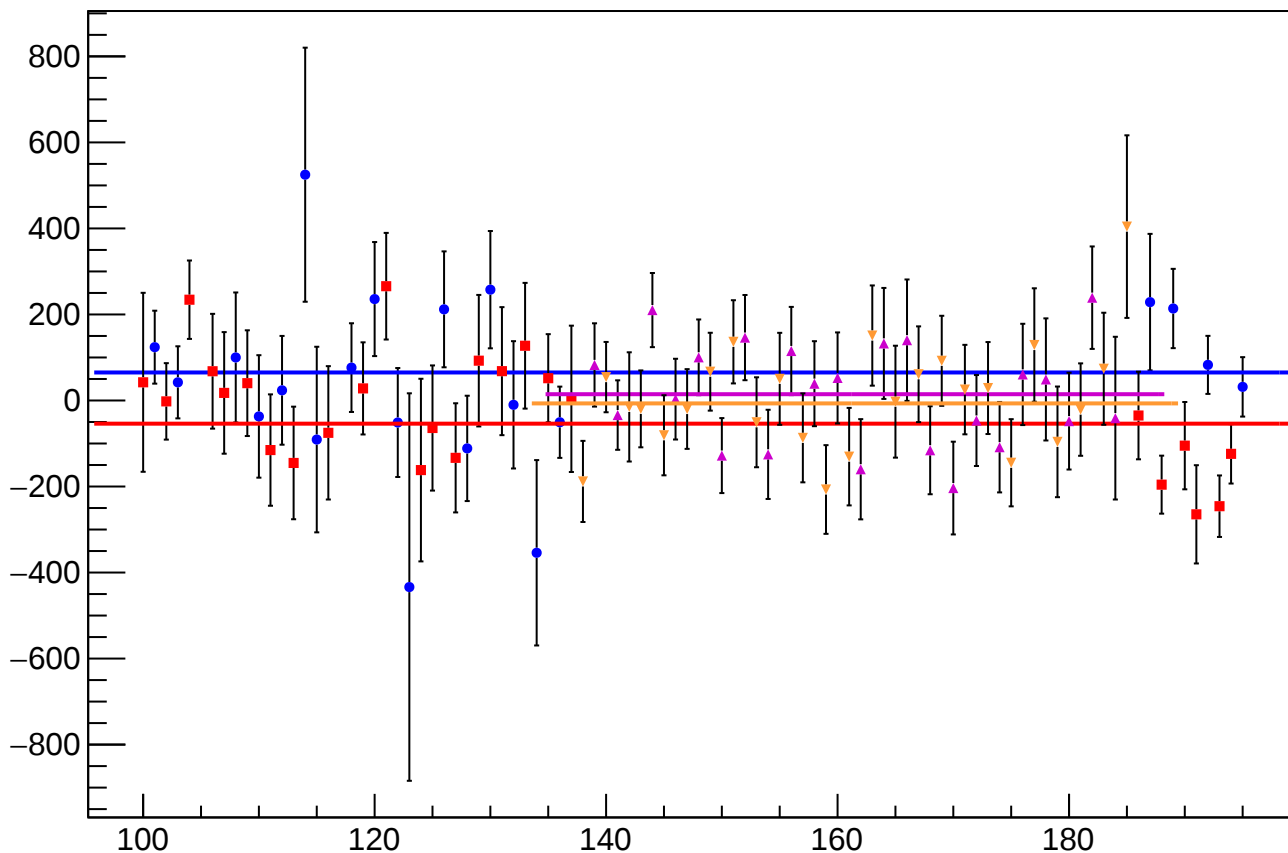
Right: 1635.185 $\pm$ 0.284 χ^2 /NDF: 6141541.3/45

In: 1481.608 $\pm$ 0.213 χ^2 /NDF:4180182.4/43

Out: 1458.320 $\pm$ 0.199 χ^2 /NDF:4365503.9/49

All: 1469.218 $\pm$ 0.145 χ^2 /NDF: 8552065.7/93

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 65.127 $\pm$ 24.518 χ^2 /NDF: 23.1/20

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

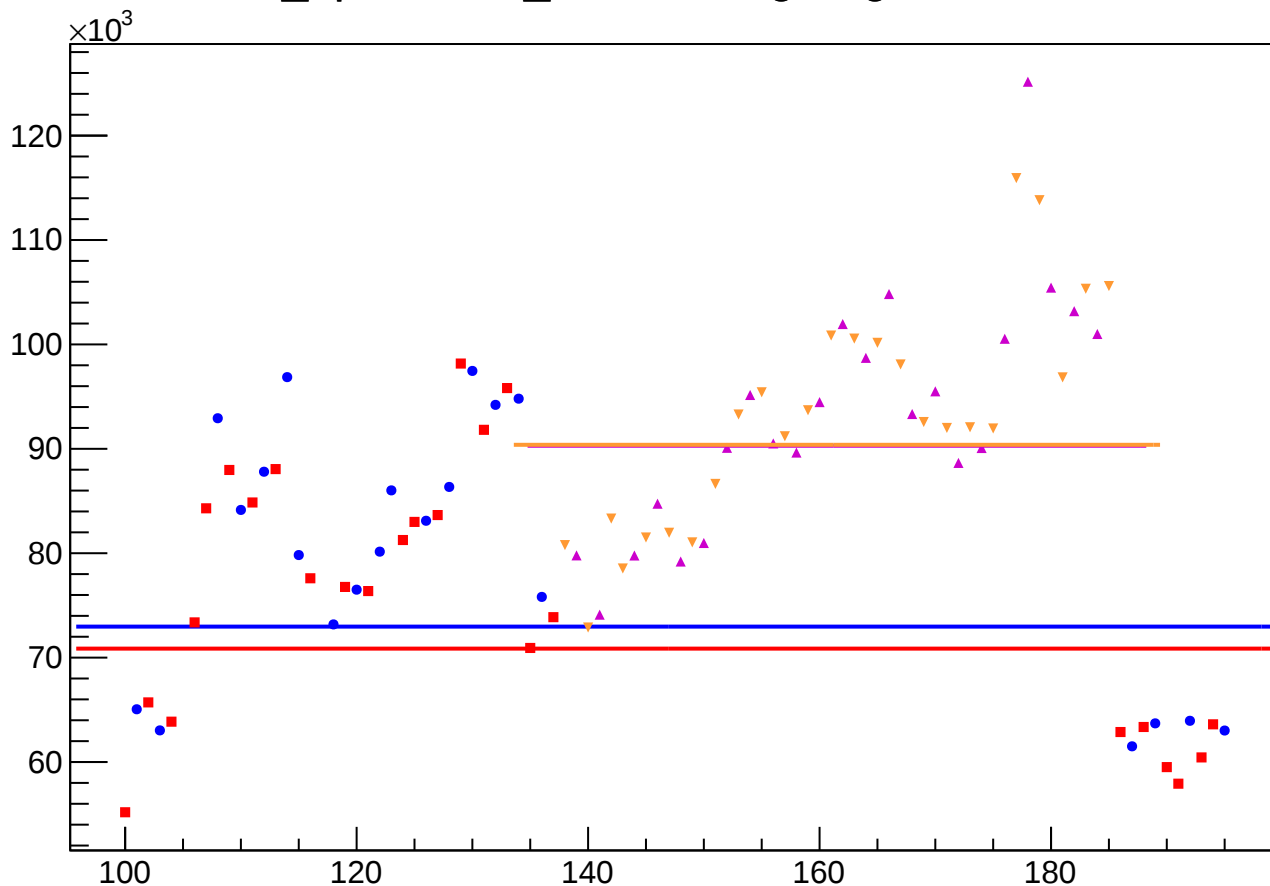
Right: -0.522 $\pm$ 16.418 χ^2 /NDF: 77.6/45

In: 36.967 $\pm$ 16.311 χ^2 /NDF:55.3/43

Out: -29.370 $\pm$ 15.306 χ^2 /NDF:68.5/49

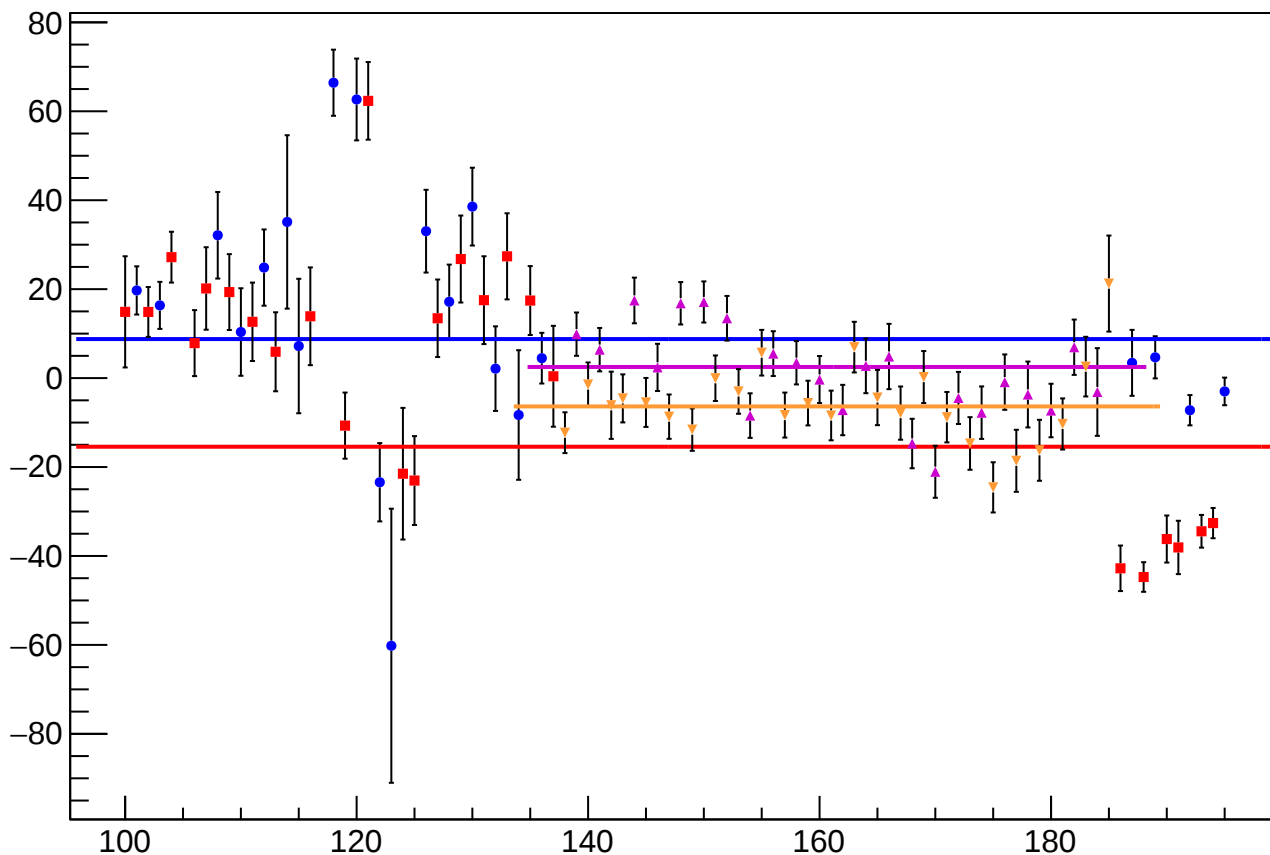
All: 1.693 $\pm$ 11.161 χ^2 /NDF: 132.7/93

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 72970.697+/-17.337	χ^2/NDF : 416737.3/20	Left: 90340.563+/-10.761	χ^2/NDF : 923003.7/47
Left Out: 90384.853+/-15.000	χ^2/NDF : 461648.2/24	Right: 71807.990+/-11.610	χ^2/NDF : 937824.6/45
Right Out: 70862.746+/-15.632	χ^2/NDF : 512933.2/24	In: 82627.254+/-11.533	χ^2/NDF : 1434606.1/43
Left In: 90293.591+/-15.448	χ^2/NDF : 461337.5/22	Out: 81026.414+/-10.823	χ^2/NDF : 1786571.3/49
		All: 81776.018+/-7.892	χ^2/NDF : 3231421.5/9

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 8.777 ± 1.424 $\chi^2/\text{NDF}: 189.6/20$

Left Out: -6.370 ± 1.124 $\chi^2/\text{NDF}: 45.5/24$

Right Out: -15.435 ± 1.277 $\chi^2/\text{NDF}: 503.6/24$

Left In: 2.501 ± 1.156 $\chi^2/\text{NDF}: 78.4/22$

Left: -2.059 ± 0.806 $\chi^2/\text{NDF}: 154.1/47$

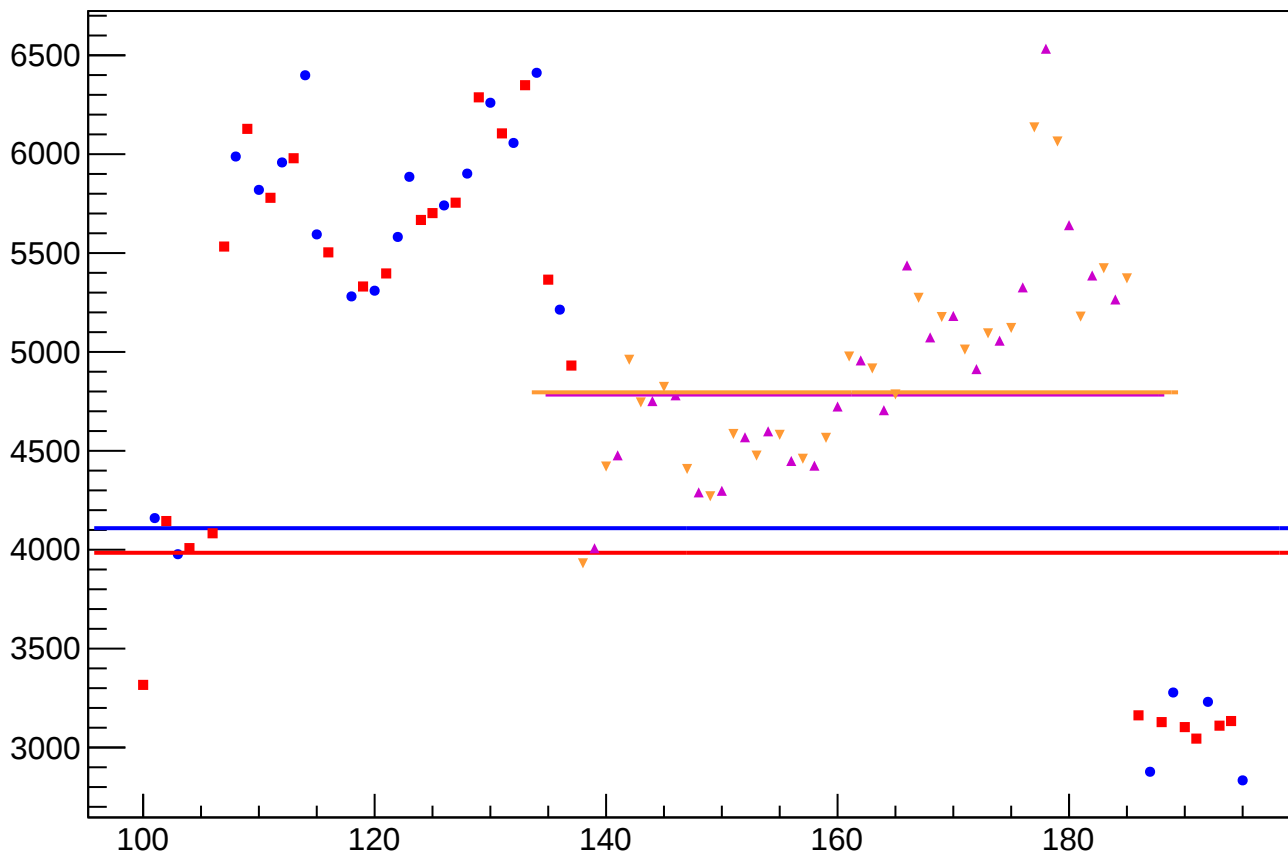
Right: -4.638 ± 0.951 $\chi^2/\text{NDF}: 853.4/45$

In: 4.995 ± 0.897 $\chi^2/\text{NDF}: 279.7/43$

Out: -10.326 ± 0.844 $\chi^2/\text{NDF}: 577.4/49$

All: -3.137 ± 0.615 $\chi^2/\text{NDF}: 1011.9/93$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4108.896 ± 1.007 $\chi^2/\text{NDF}: 1493371.8/20$

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 $\chi^2/\text{NDF}: 718857.1/47$

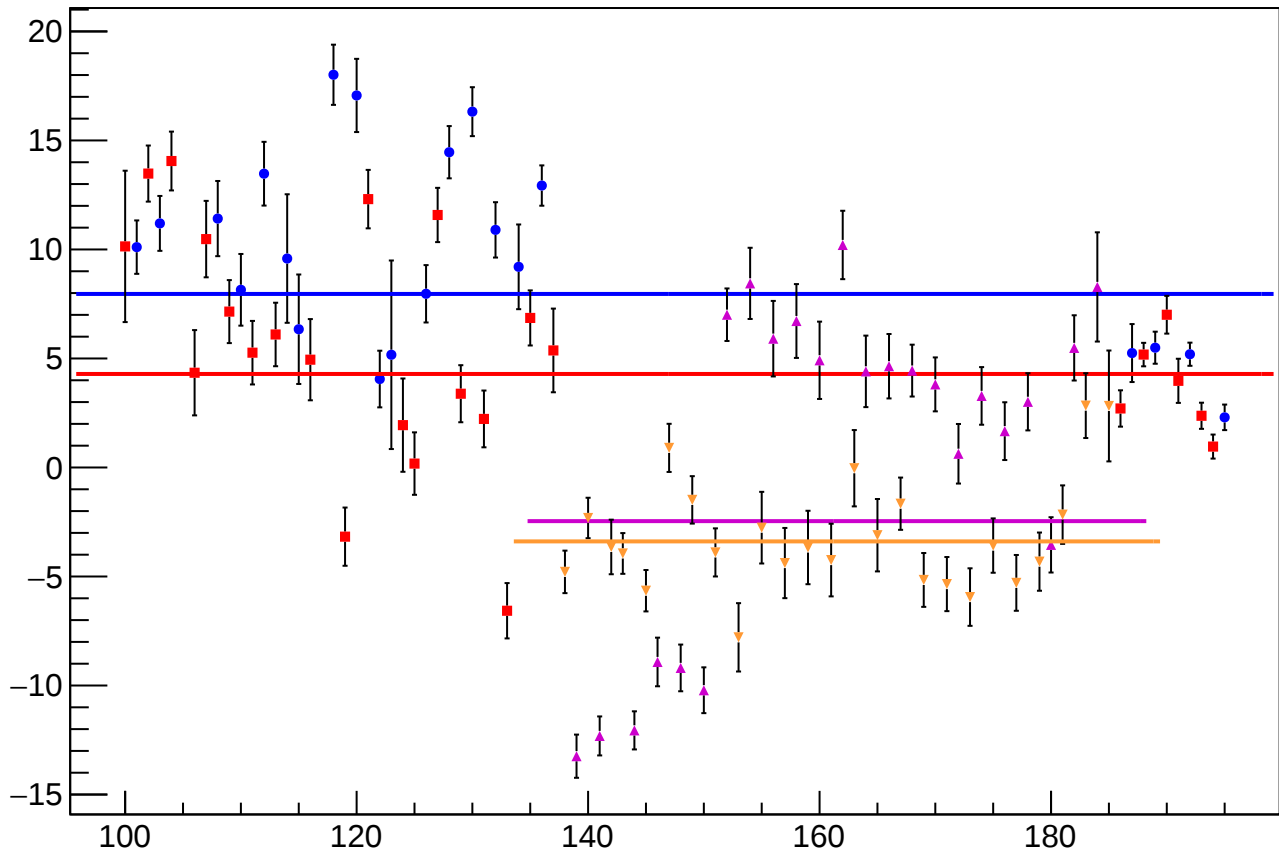
Right: 4039.995 ± 0.672 $\chi^2/\text{NDF}: 3124958.5/45$

In: 4516.028 ± 0.635 $\chi^2/\text{NDF}: 2122284.7/43$

Out: 4441.785 ± 0.597 $\chi^2/\text{NDF}: 2439225.2/49$

All: 4476.621 ± 0.435 $\chi^2/\text{NDF}: 4568776.2/93$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 7.960 ± 0.241 $\chi^2/\text{NDF}: 375.9/20$

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 $\chi^2/\text{NDF}: 1012.2/47$

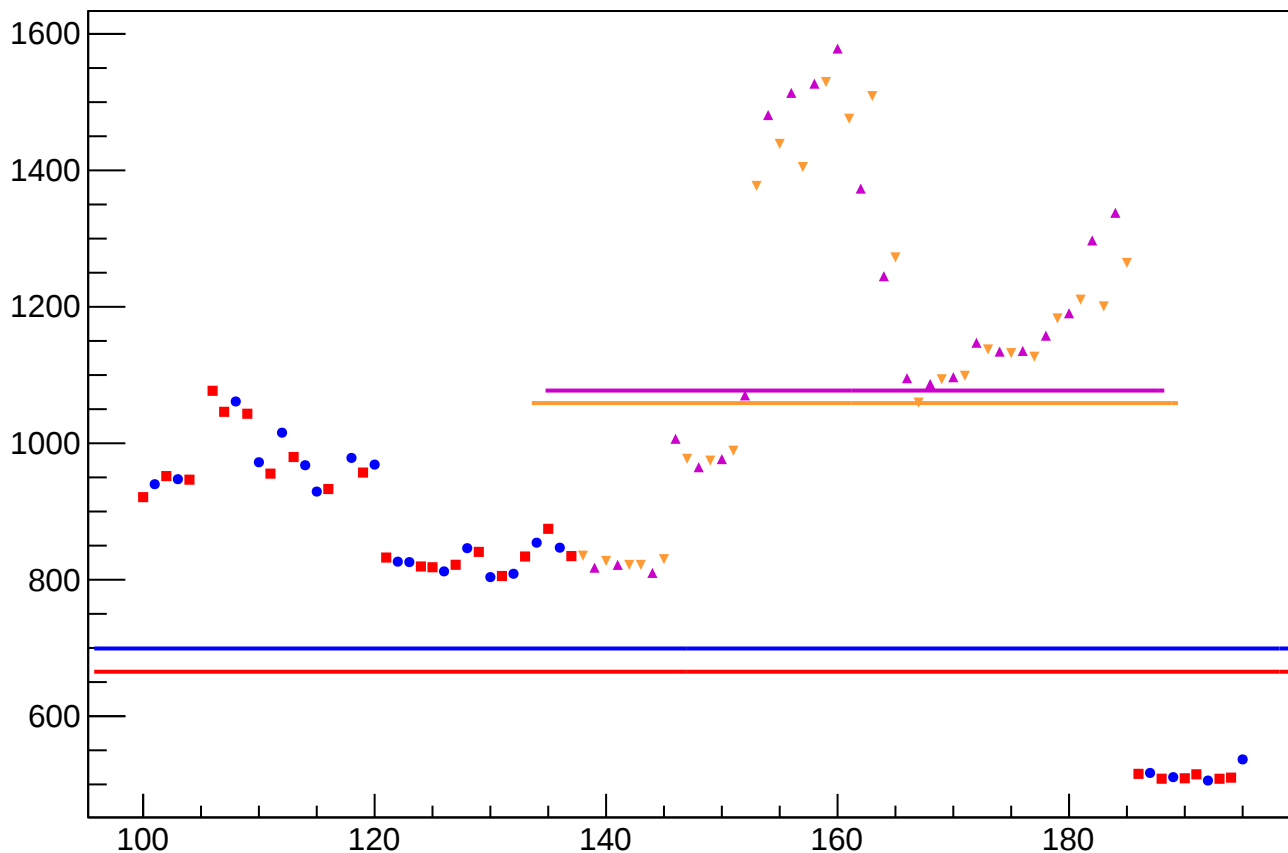
Right: 5.905 ± 0.160 $\chi^2/\text{NDF}: 885.4/45$

In: 3.238 ± 0.178 $\chi^2/\text{NDF}: 2153.6/43$

Out: 1.086 ± 0.163 $\chi^2/\text{NDF}: 997.2/49$

All: 2.068 ± 0.120 $\chi^2/\text{NDF}: 3230.4/93$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 699.228 $\pm$ 0.170 χ^2 /NDF: 1309595.7/20

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

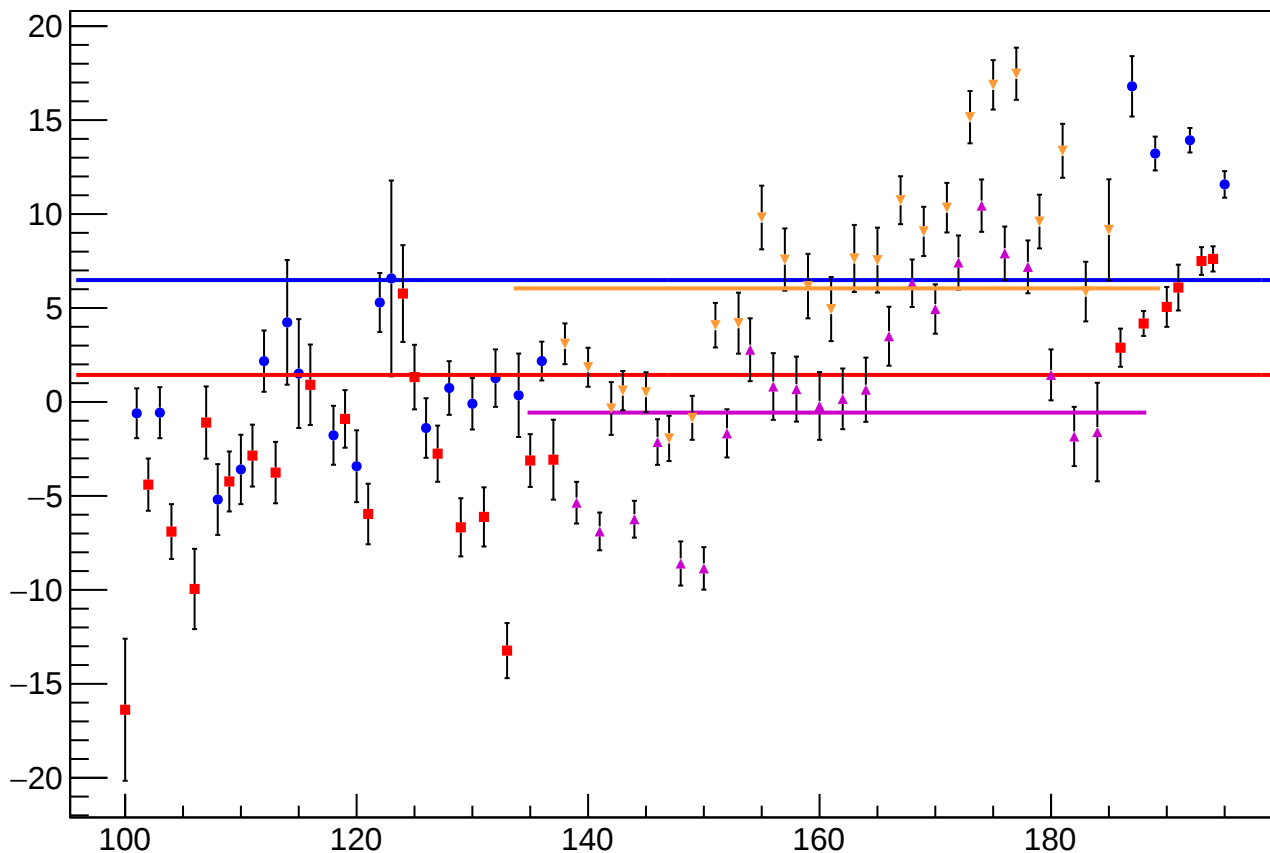
Right: 680.158 $\pm$ 0.113 χ^2 /NDF: 3059252.4/45

In: 870.527 $\pm$ 0.126 χ^2 /NDF:4826803.7/43

Out: 829.396 $\pm$ 0.115 χ^2 /NDF:5971439.3/49

All: 848.150 $\pm$ 0.085 χ^2 /NDF: 10856371.3/93

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 6.486 ± 0.284 χ^2/NDF : 569.9/20

Left Out: 6.045 ± 0.272 χ^2/NDF : 430.8/24

Right Out: 1.439 ± 0.254 χ^2/NDF : 529.8/24

Left In: -0.566 ± 0.284 χ^2/NDF : 417.0/22

Left: 2.888 ± 0.196 χ^2/NDF : 1130.7/47

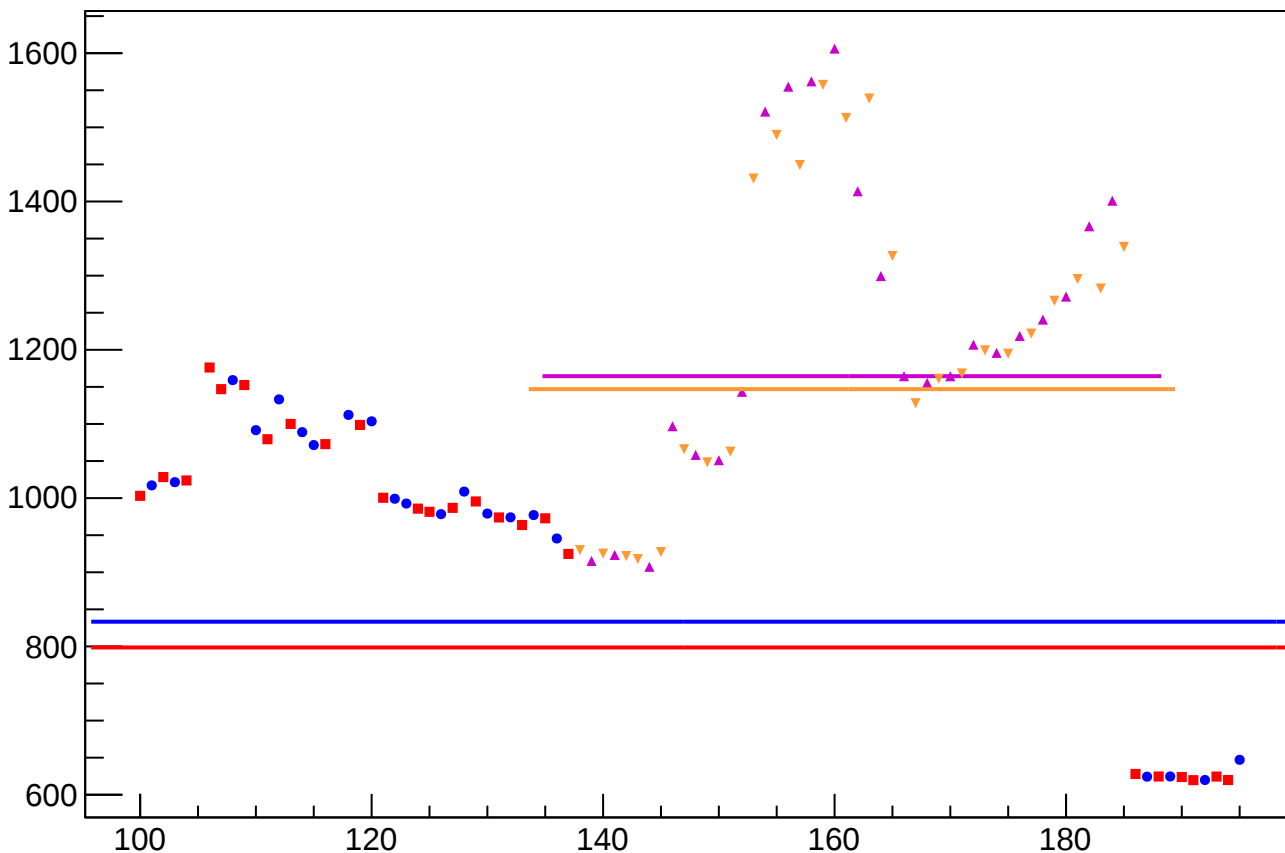
Right: 3.676 ± 0.189 χ^2/NDF : 1275.1/45

In: 2.958 ± 0.201 χ^2/NDF : 1294.7/43

Out: 3.584 ± 0.185 χ^2/NDF : 1114.2/49

All: 3.296 ± 0.136 χ^2/NDF : 2414.2/93

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 833.364 $\pm$ 0.201 χ^2 /NDF: 1010196.5/20

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

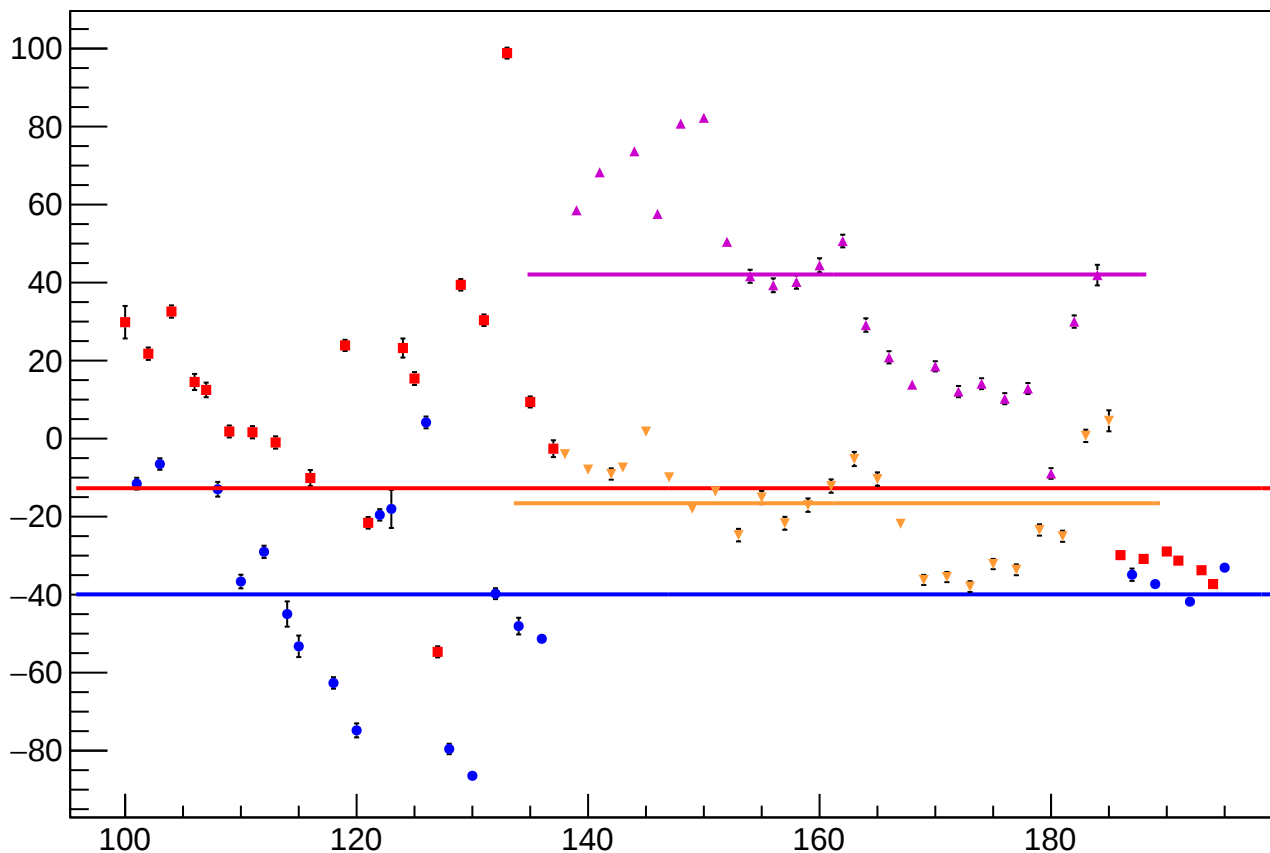
Right: 814.013 $\pm$ 0.134 χ^2 /NDF: 2359642.2/45

In: 999.003 $\pm$ 0.142 χ^2 /NDF:3311214.2/43

Out: 960.840 $\pm$ 0.131 χ^2 /NDF:4135468.3/49

All: 978.386 $\pm$ 0.096 χ^2 /NDF: 7485643.4/93

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -39.933 ± 0.278 $\chi^2/\text{NDF}: 5258.0/20$

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 $\chi^2/\text{NDF}: 31846.5/47$

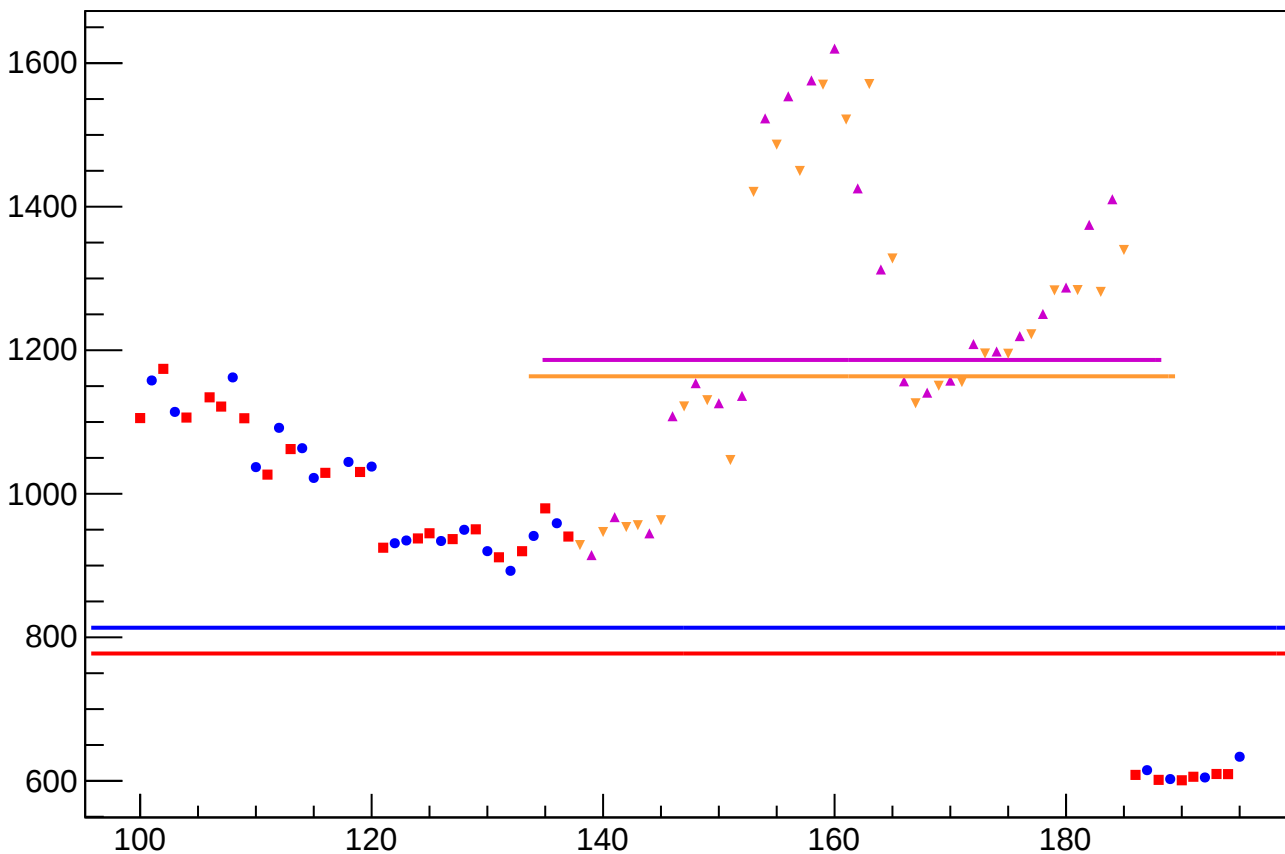
Right: -24.744 ± 0.185 $\chi^2/\text{NDF}: 27227.7/45$

In: -0.543 ± 0.200 $\chi^2/\text{NDF}: 55412.0/43$

Out: -14.439 ± 0.184 $\chi^2/\text{NDF}: 18658.0/49$

All: -8.083 ± 0.135 $\chi^2/\text{NDF}: 76680.2/93$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 813.390 $\pm$ 0.197 χ^2/NDF : 1068372.7/20

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

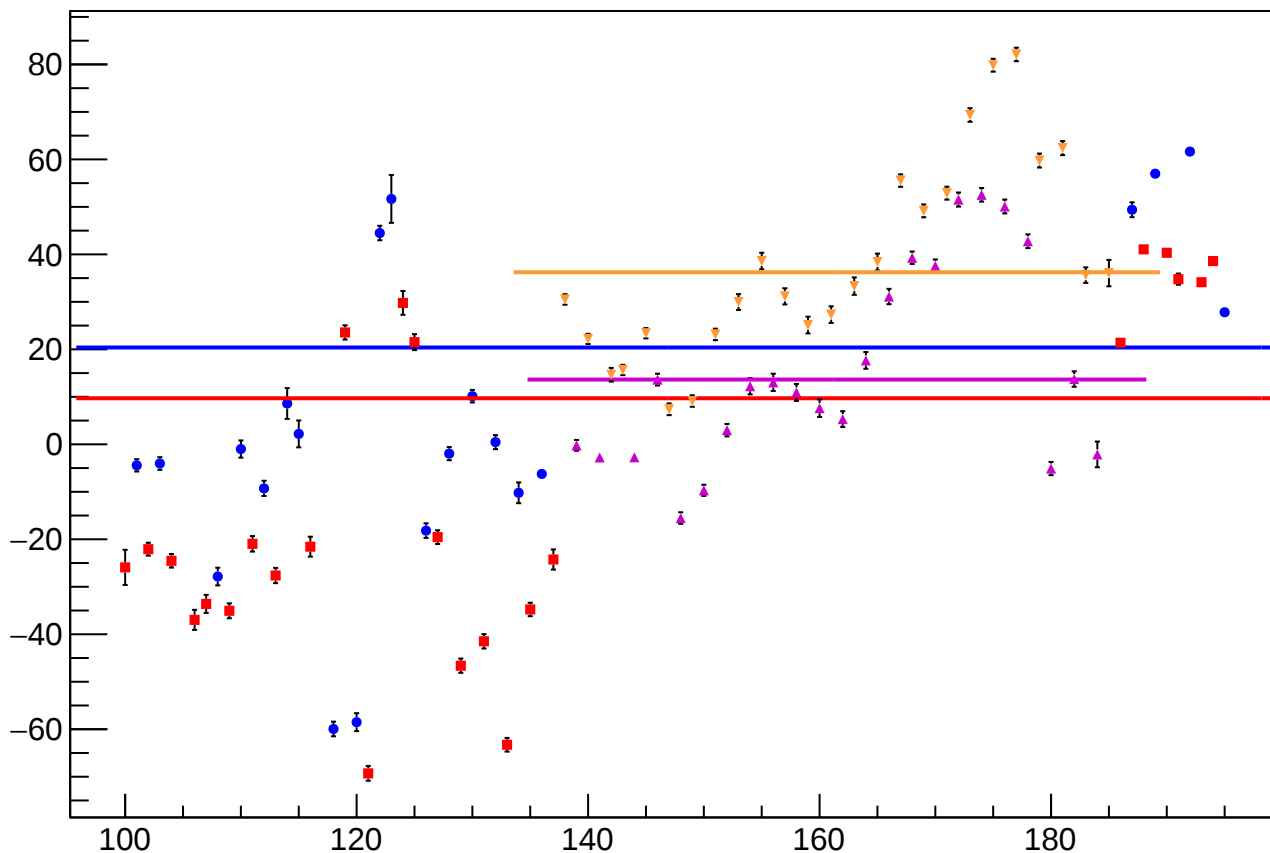
Right: 793.337 $\pm$ 0.131 χ^2/NDF : 2481168.9/45

In: 992.586 $\pm$ 0.142 χ^2/NDF : 3632889.1/43

Out: 949.943 $\pm$ 0.130 χ^2/NDF : 4509369.0/49

All: 969.448 $\pm$ 0.096 χ^2/NDF : 8191418.8/93

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 20.390 $\pm$ 0.277 χ^2 /NDF: 15174.4/20

Left Out: 36.234 $\pm$ 0.280 χ^2 /NDF:5794.2/24

Right Out: 9.698 $\pm$ 0.246 χ^2 /NDF: 20748.7/24

Left In: 13.640 $\pm$ 0.293 χ^2 /NDF:5178.0/22

Left: 25.447 $\pm$ 0.202 χ^2 /NDF: 14084.0/47

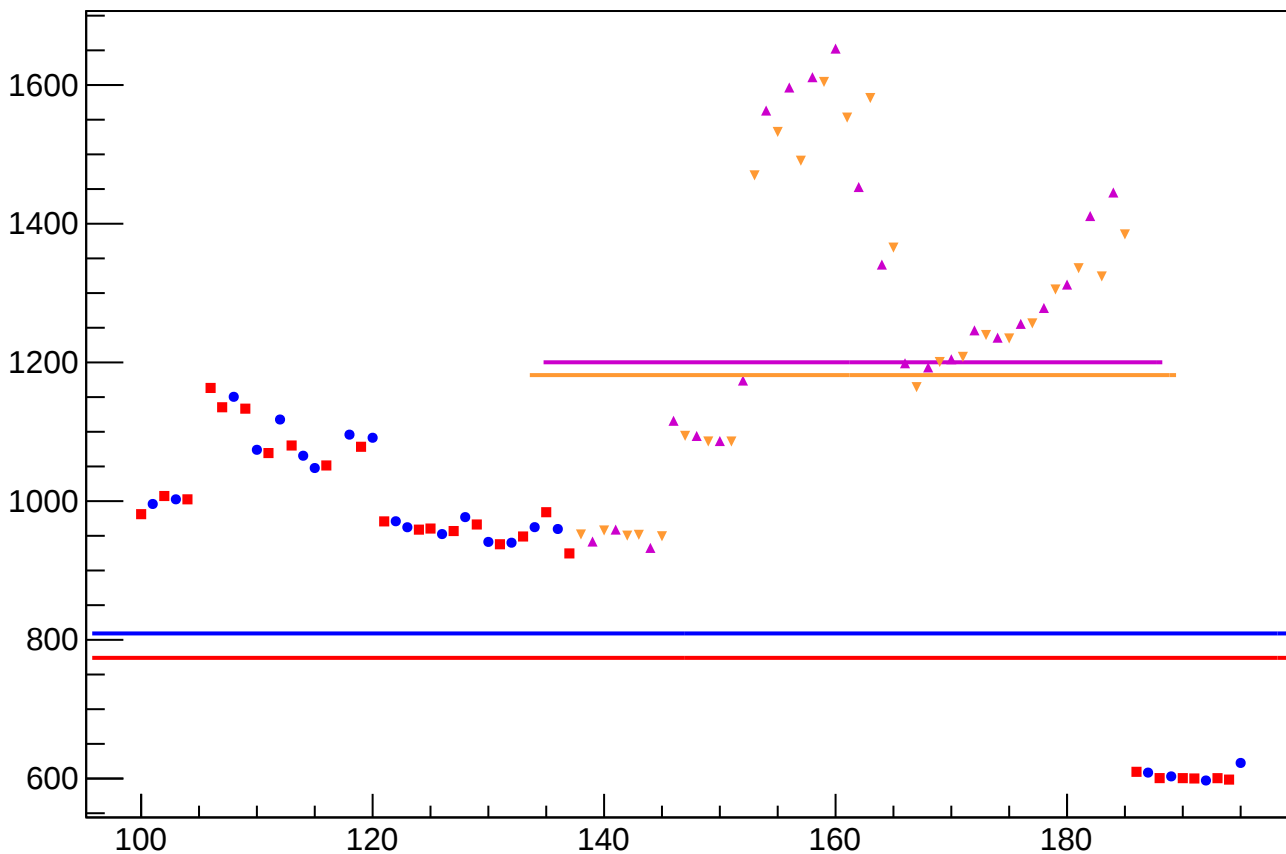
Right: 14.426 $\pm$ 0.184 χ^2 /NDF: 36756.2/45

In: 17.206 $\pm$ 0.201 χ^2 /NDF:20633.2/43

Out: 21.283 $\pm$ 0.185 χ^2 /NDF:31608.2/49

All: 19.415 $\pm$ 0.136 χ^2 /NDF: 52464.1/93

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 809.228 $\pm$ 0.196 χ^2/NDF : 1089608.8/20

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

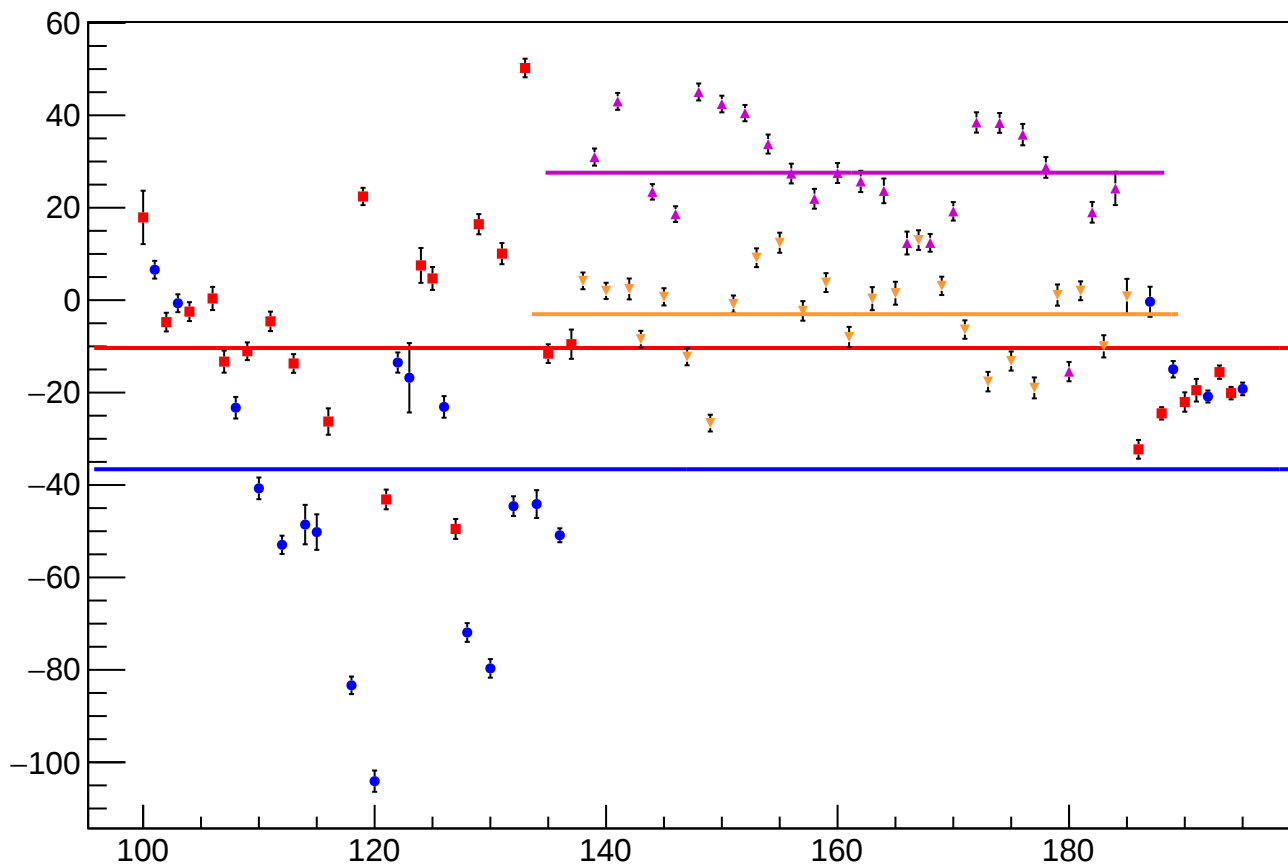
Right: 789.589 $\pm$ 0.130 χ^2/NDF : 2534803.1/45

In: 993.648 $\pm$ 0.142 χ^2/NDF :3911818.6/43

Out: 952.015 $\pm$ 0.131 χ^2/NDF :4862067.6/49

All: 971.091 $\pm$ 0.096 χ^2/NDF : 8820333.4/93

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -36.592 ± 0.449 $\chi^2/\text{NDF}: 4048.9/20$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -10.350 ± 0.412 $\chi^2/\text{NDF}: 2517.2/24$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

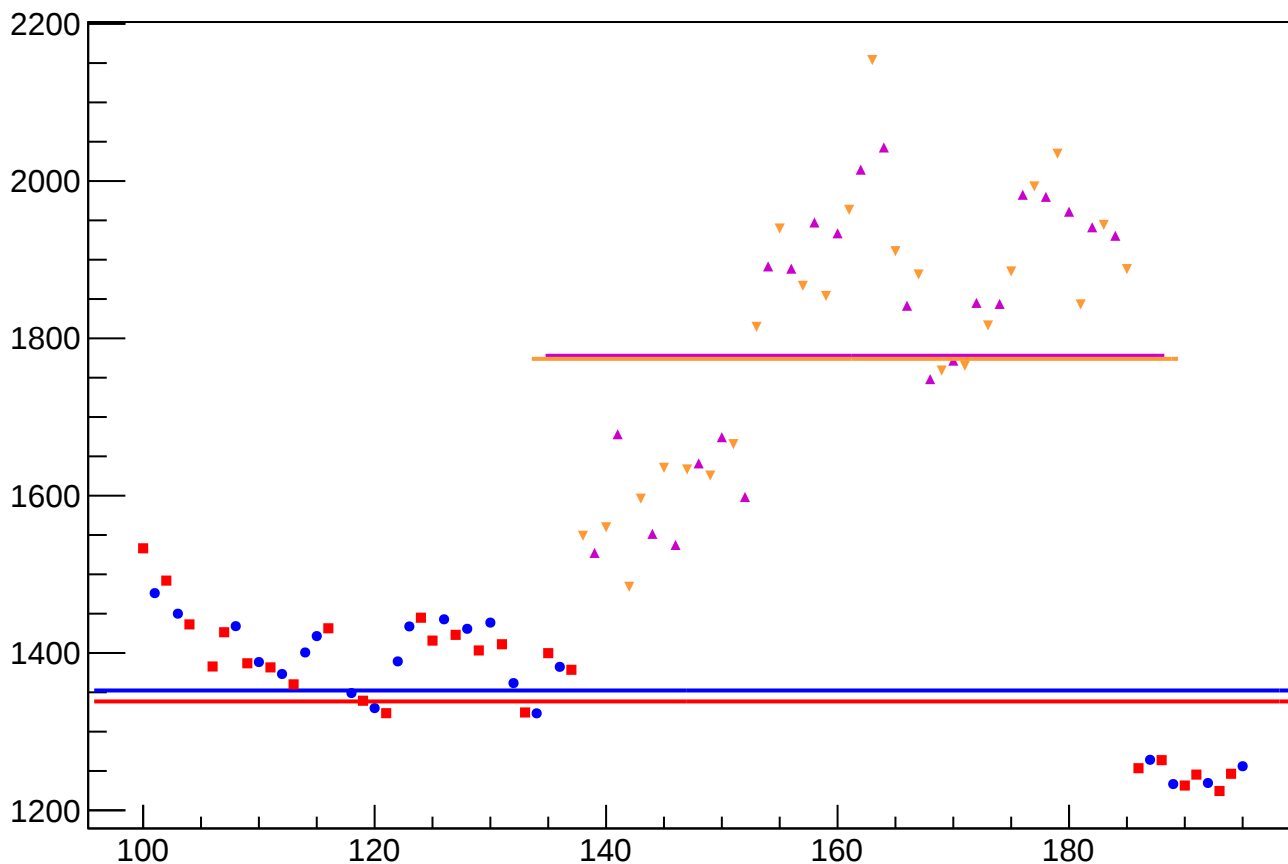
Right: -22.349 ± 0.304 $\chi^2/\text{NDF}: 8420.2/45$

In: -3.047 ± 0.310 $\chi^2/\text{NDF}: 15688.3/43$

Out: -6.720 ± 0.292 $\chi^2/\text{NDF}: 3229.1/49$

All: -4.991 ± 0.213 $\chi^2/\text{NDF}: 18991.7/93$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1352.338 ± 0.317 χ^2/NDF : 65979.2/20

Left Out: 1773.965 ± 0.294 χ^2/NDF : 313031.1/24

Right Out: 1338.404 ± 0.291 χ^2/NDF : 78636.6/24

Left In: 1777.884 ± 0.303 χ^2/NDF : 299514.0/22

Left: 1775.860 ± 0.211 χ^2/NDF : 612631.3/47

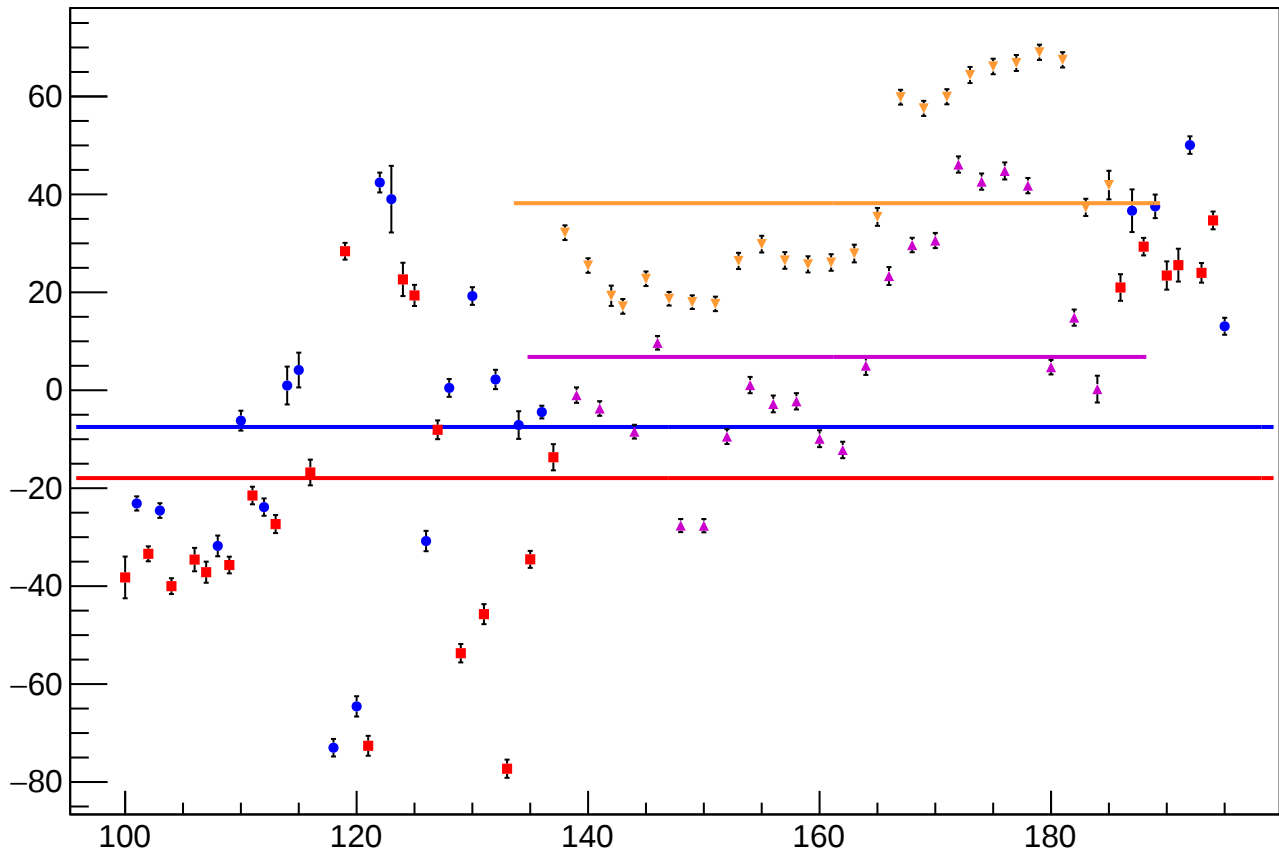
Right: 1344.776 ± 0.215 χ^2/NDF : 145661.3/45

In: 1574.779 ± 0.219 χ^2/NDF : 1304638.7/43

Out: 1554.614 ± 0.207 χ^2/NDF : 1500707.4/49

All: 1564.103 ± 0.150 χ^2/NDF : 2809821.0/93

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -7.496 ± 0.433 χ^2/NDF : 5244.4/20

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

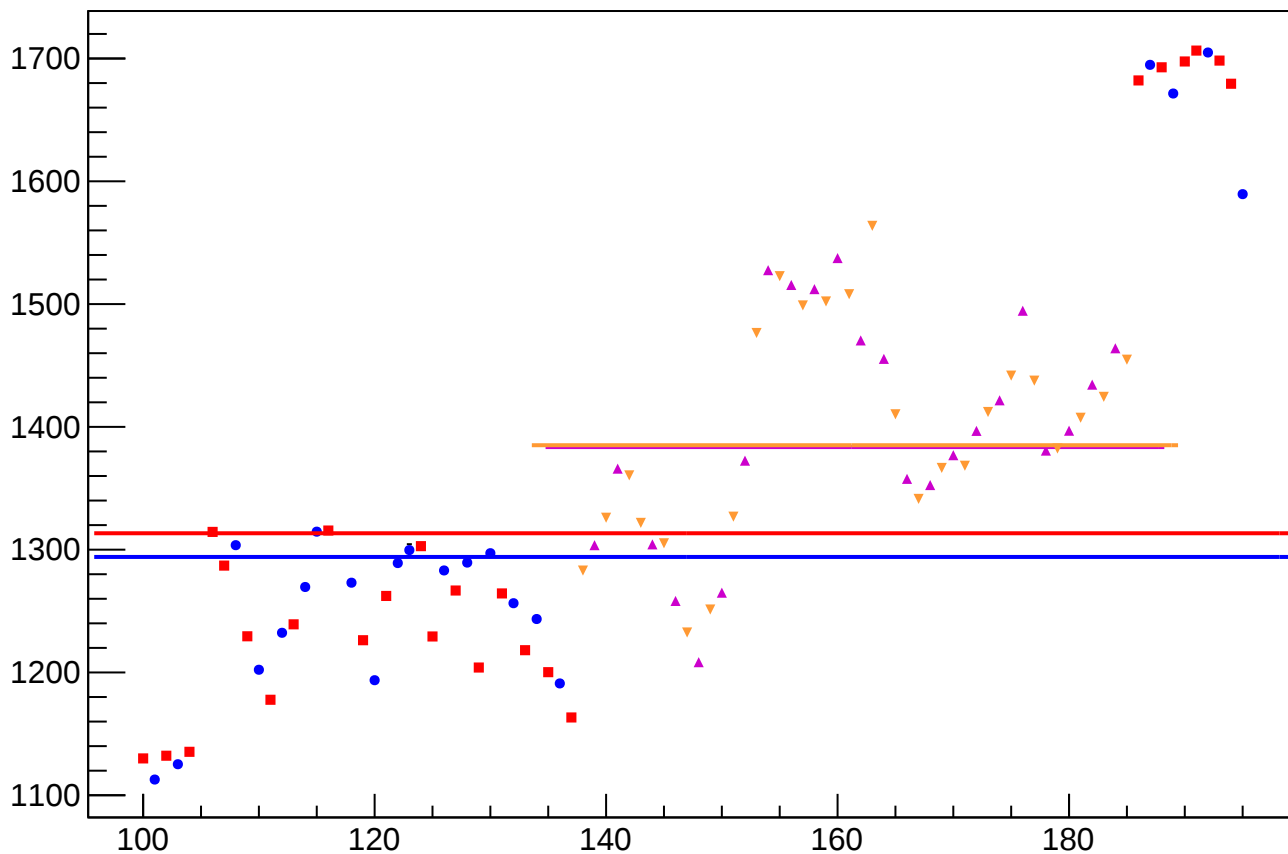
Right: -13.018 ± 0.297 χ^2/NDF : 12268.4/45

In: 1.488 ± 0.264 χ^2/NDF : 10425.2/43

Out: 16.566 ± 0.253 χ^2/NDF : 21848.2/49

All: 9.330 ± 0.183 χ^2/NDF : 33971.2/93

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1294.075 ± 0.306 $\chi^2/\text{NDF}: 311715.0/20$

Left Out: 1385.063 ± 0.229 $\chi^2/\text{NDF}: 146001.5/24$

Right Out: 1313.364 ± 0.289 $\chi^2/\text{NDF}: 458951.5/24$

Left In: 1383.558 ± 0.235 $\chi^2/\text{NDF}: 154696.0/22$

Left: 1384.333 ± 0.164 $\chi^2/\text{NDF}: 300718.5/47$

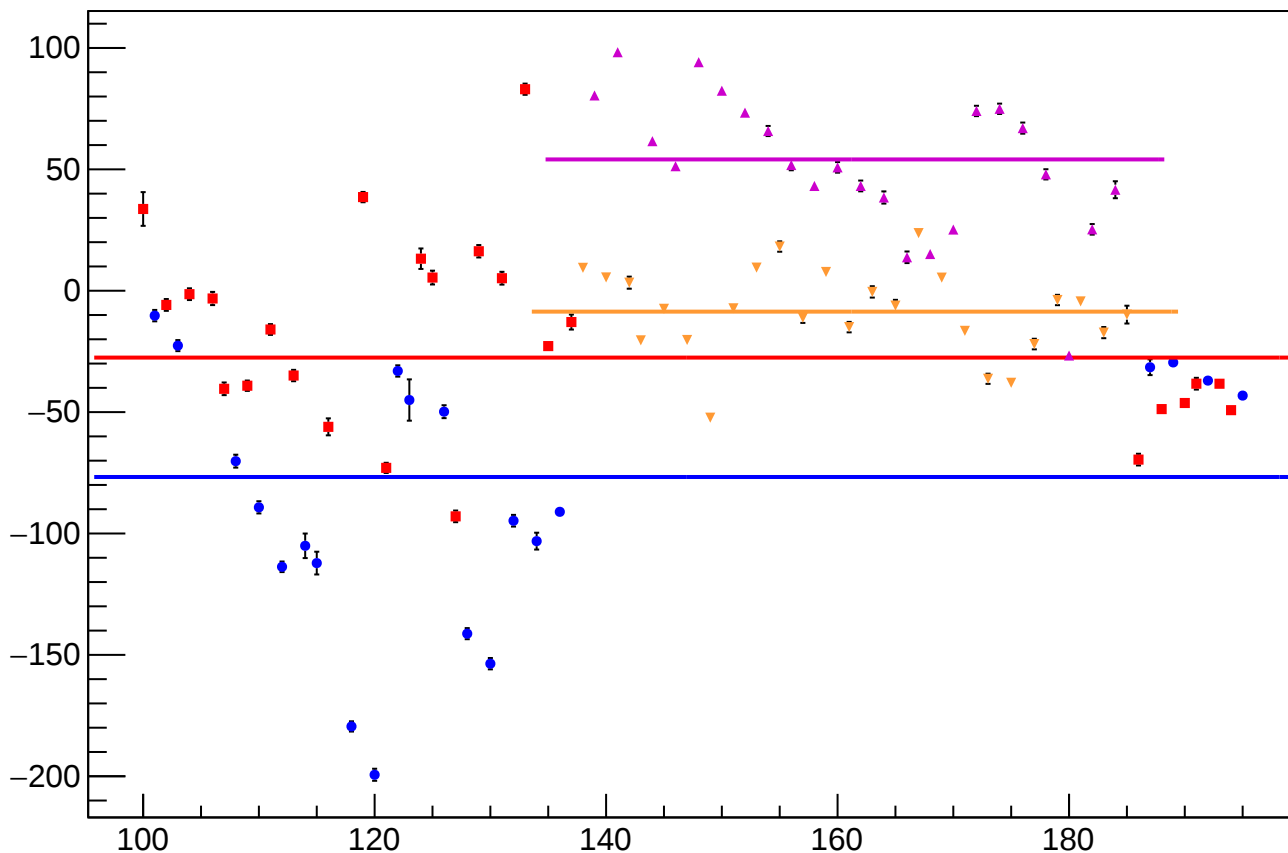
Right: 1304.279 ± 0.210 $\chi^2/\text{NDF}: 772768.8/45$

In: 1350.278 ± 0.187 $\chi^2/\text{NDF}: 520127.0/43$

Out: 1357.425 ± 0.179 $\chi^2/\text{NDF}: 642852.9/49$

All: 1353.995 ± 0.129 $\chi^2/\text{NDF}: 1163742.9/93$

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -76.723 ± 0.488 $\chi^2/\text{NDF}: 11463.5/20$

Left Out: -8.606 ± 0.410 $\chi^2/\text{NDF}: 1930.5/24$

Right Out: -27.538 ± 0.443 $\chi^2/\text{NDF}: 6630.1/24$

Left In: 54.089 ± 0.426 $\chi^2/\text{NDF}: 4721.6/22$

Left: 21.586 ± 0.295 $\chi^2/\text{NDF}: 17900.0/47$

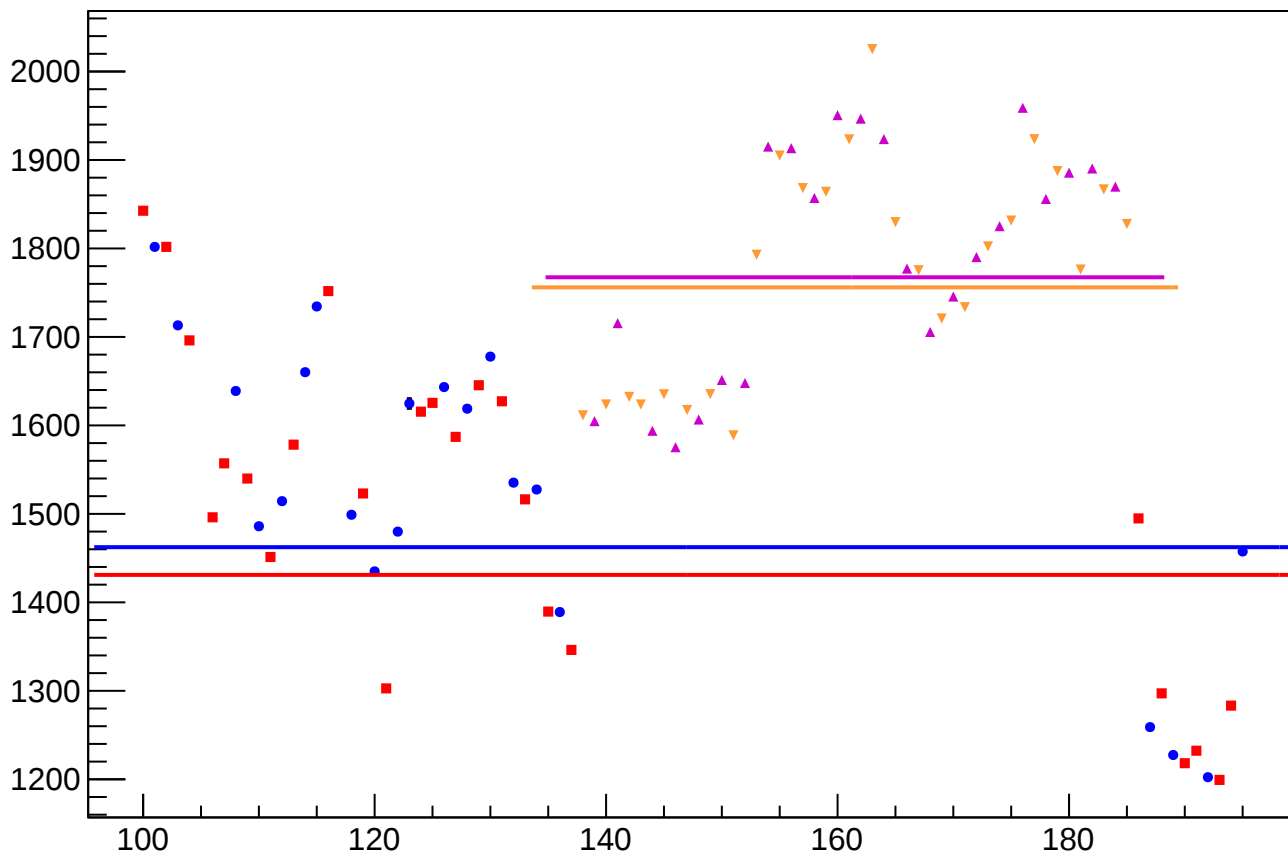
Right: -49.761 ± 0.328 $\chi^2/\text{NDF}: 23656.5/45$

In: -2.398 ± 0.321 $\chi^2/\text{NDF}: 56970.9/43$

Out: -17.340 ± 0.301 $\chi^2/\text{NDF}: 9543.3/49$

All: -10.343 ± 0.220 $\chi^2/\text{NDF}: 67667.5/93$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1462.368 ± 0.345 χ^2/NDF : 258373.7/20

Left Out: 1756.034 ± 0.290 χ^2/NDF : 175762.3/24

Right Out: 1431.042 ± 0.313 χ^2/NDF : 307483.9/24

Left In: 1767.410 ± 0.301 χ^2/NDF : 187958.2/22

Left: 1761.512 ± 0.209 χ^2/NDF : 364461.2/47

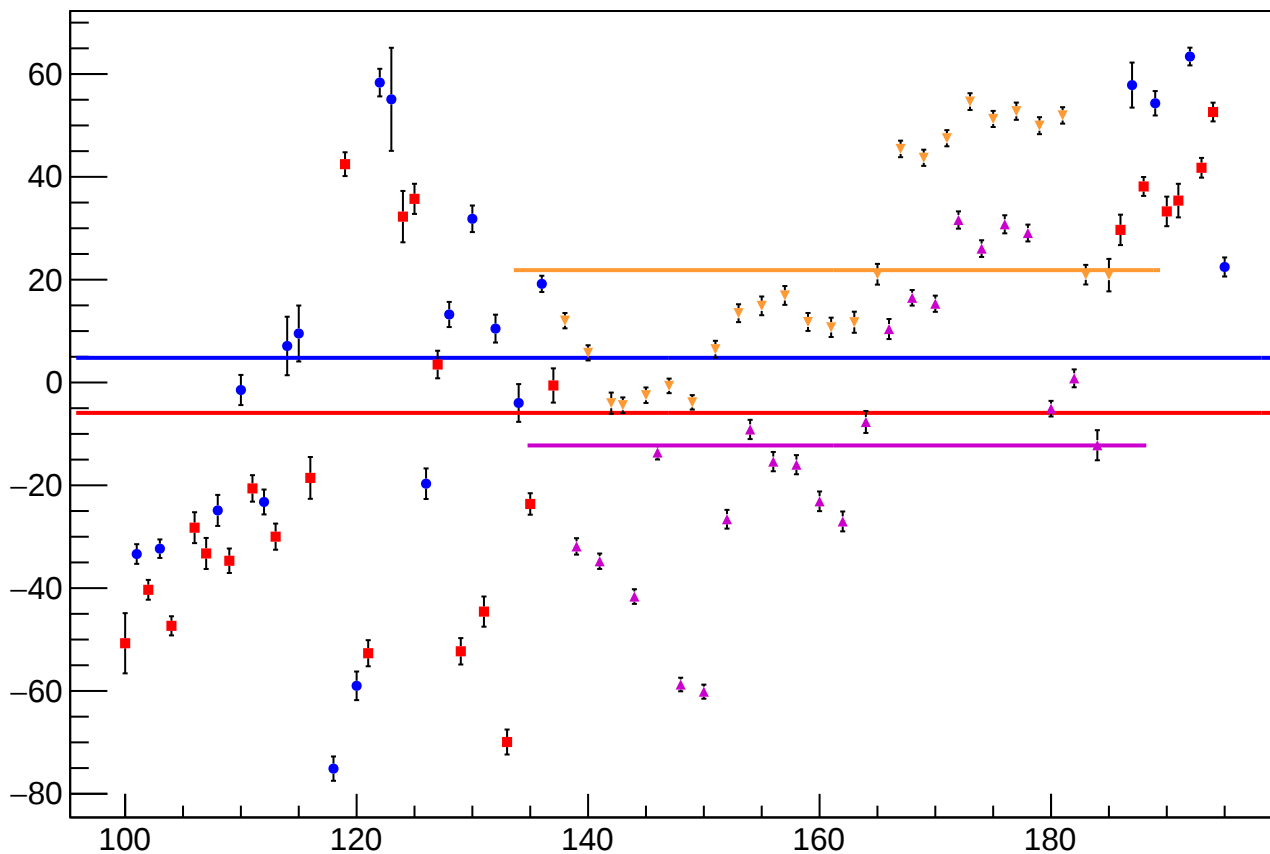
Right: 1445.196 ± 0.232 χ^2/NDF : 570370.9/45

In: 1635.688 ± 0.227 χ^2/NDF : 889908.4/43

Out: 1606.105 ± 0.213 χ^2/NDF : 1062349.5/49

All: 1619.957 ± 0.155 χ^2/NDF : 1961299.6/93

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 4.797 $\pm$ 0.543 χ^2 /NDF: 5256.0/20

Left Out: 21.856 $\pm$ 0.335 χ^2 /NDF:4110.5/24

Right Out: -5.912 $\pm$ 0.504 χ^2 /NDF: 6317.3/24

Left In: -12.246 $\pm$ 0.347 χ^2 /NDF:6781.6/22

Left: 5.391 $\pm$ 0.241 χ^2 /NDF: 15885.7/47

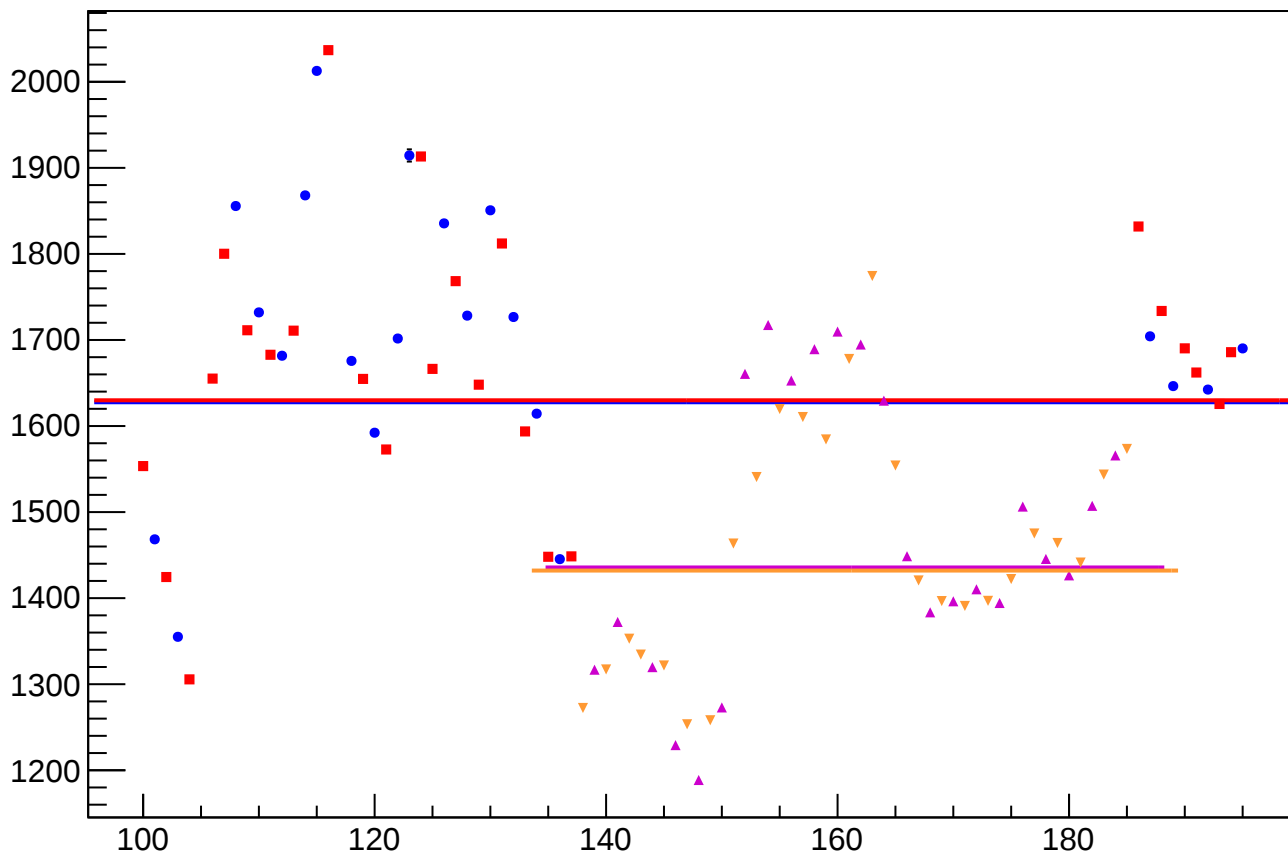
Right: -0.954 $\pm$ 0.369 χ^2 /NDF: 11782.5/45

In: -7.297 $\pm$ 0.292 χ^2 /NDF:12737.8/43

Out: 13.329 $\pm$ 0.279 χ^2 /NDF:12533.5/49

All: 3.493 $\pm$ 0.202 χ^2 /NDF: 27875.3/93

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1627.635 $\pm$ 0.384 χ^2 /NDF: 153087.4/20

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

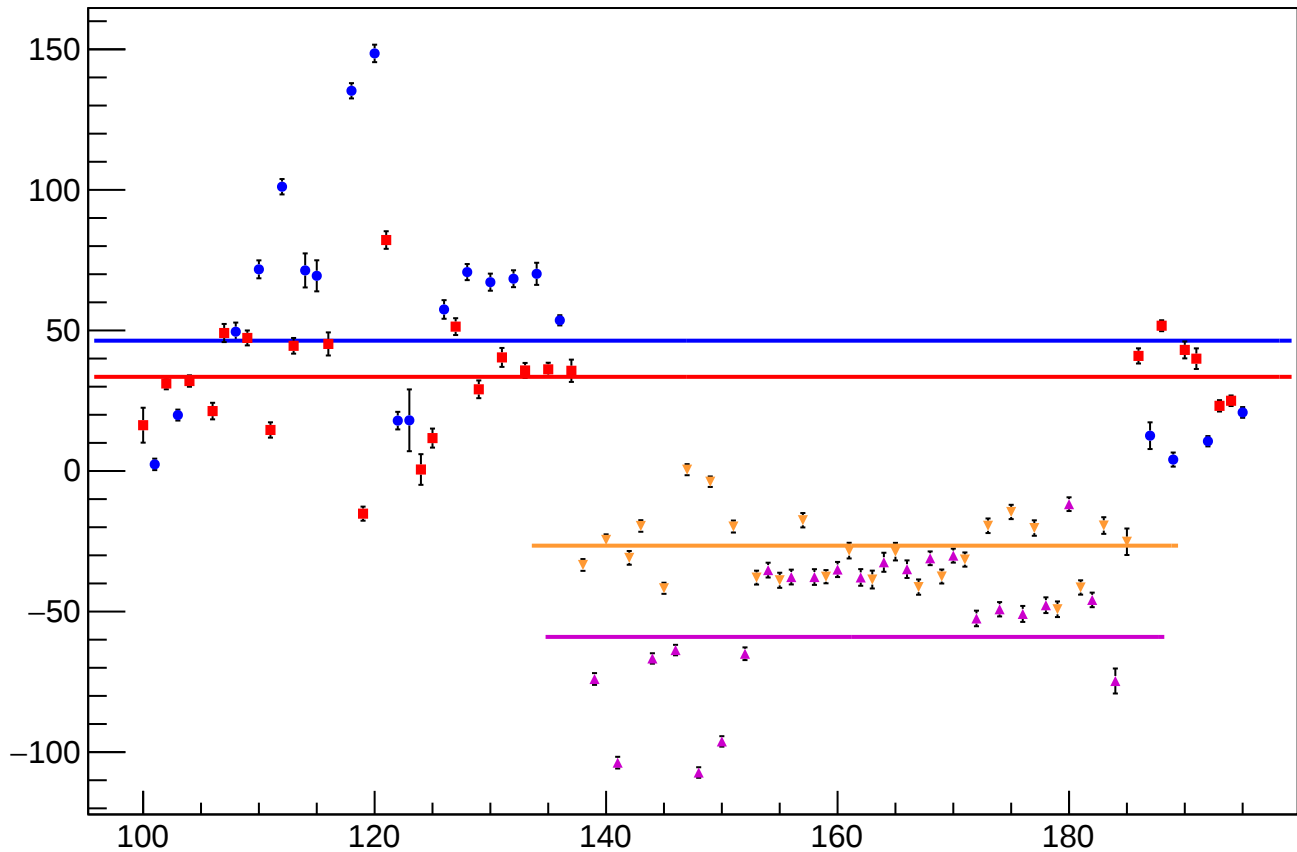
Right: 1628.859 $\pm$ 0.261 χ^2 /NDF: 329932.7/45

In: 1491.397 $\pm$ 0.207 χ^2 /NDF: 751658.1/43

Out: 1492.814 $\pm$ 0.197 χ^2 /NDF: 688000.5/49

All: 1492.138 $\pm$ 0.143 χ^2 /NDF: 1439683.2/93

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 46.360 ± 0.596 $\chi^2/\text{NDF}: 4516.4/20$

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 $\chi^2/\text{NDF}: 5632.2/47$

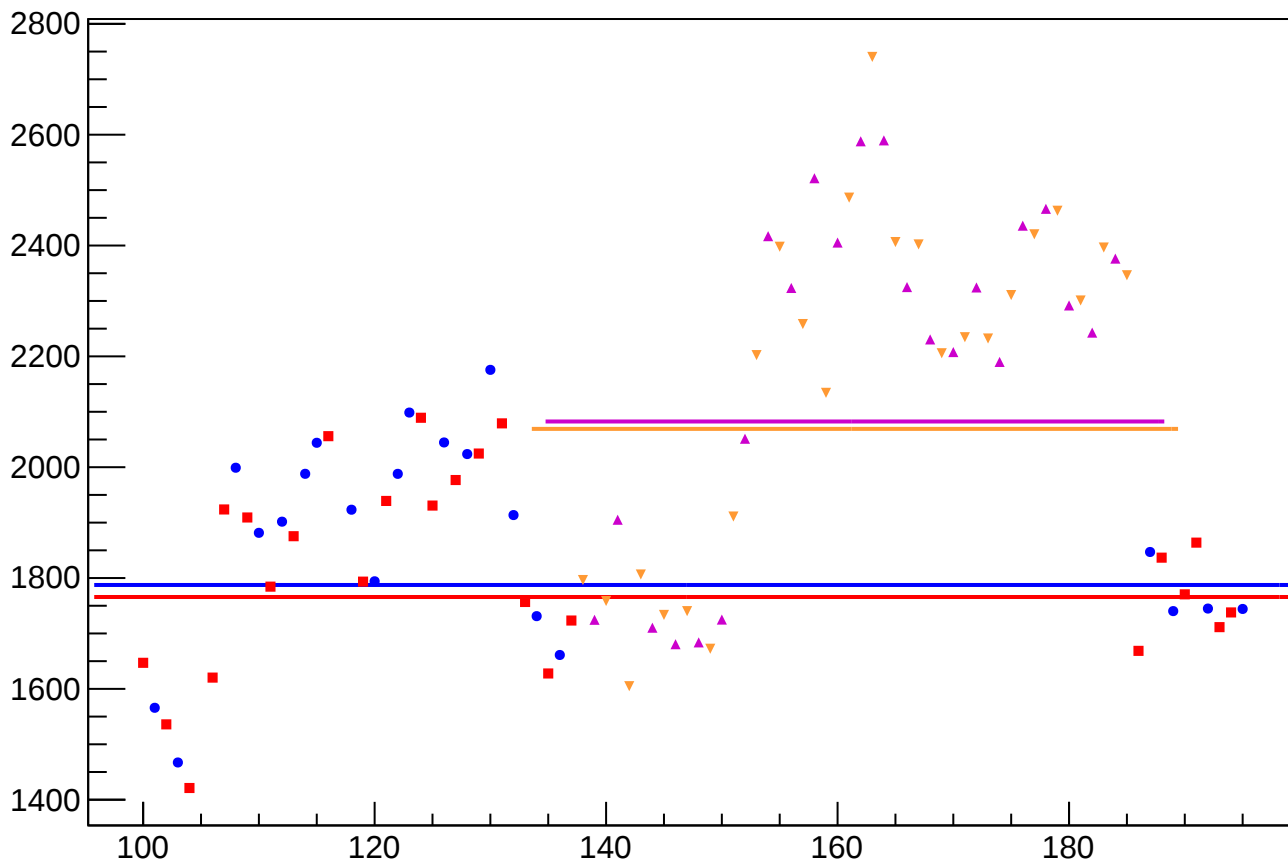
Right: 39.360 ± 0.402 $\chi^2/\text{NDF}: 5815.4/45$

In: -14.845 ± 0.386 $\chi^2/\text{NDF}: 25447.9/43$

Out: 0.128 ± 0.364 $\chi^2/\text{NDF}: 8495.1/49$

All: -6.914 ± 0.265 $\chi^2/\text{NDF}: 34740.2/93$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1787.490 $\pm$ 0.422 χ^2/NDF : 187531.6/20

Left Out: 2069.146 $\pm$ 0.345 χ^2/NDF : 799037.9/24

Right Out: 1765.792 $\pm$ 0.386 χ^2/NDF : 186455.3/24

Left In: 2082.497 $\pm$ 0.358 χ^2/NDF : 785304.0/22

Left: 2075.572 $\pm$ 0.248 χ^2/NDF : 1585062.9/47

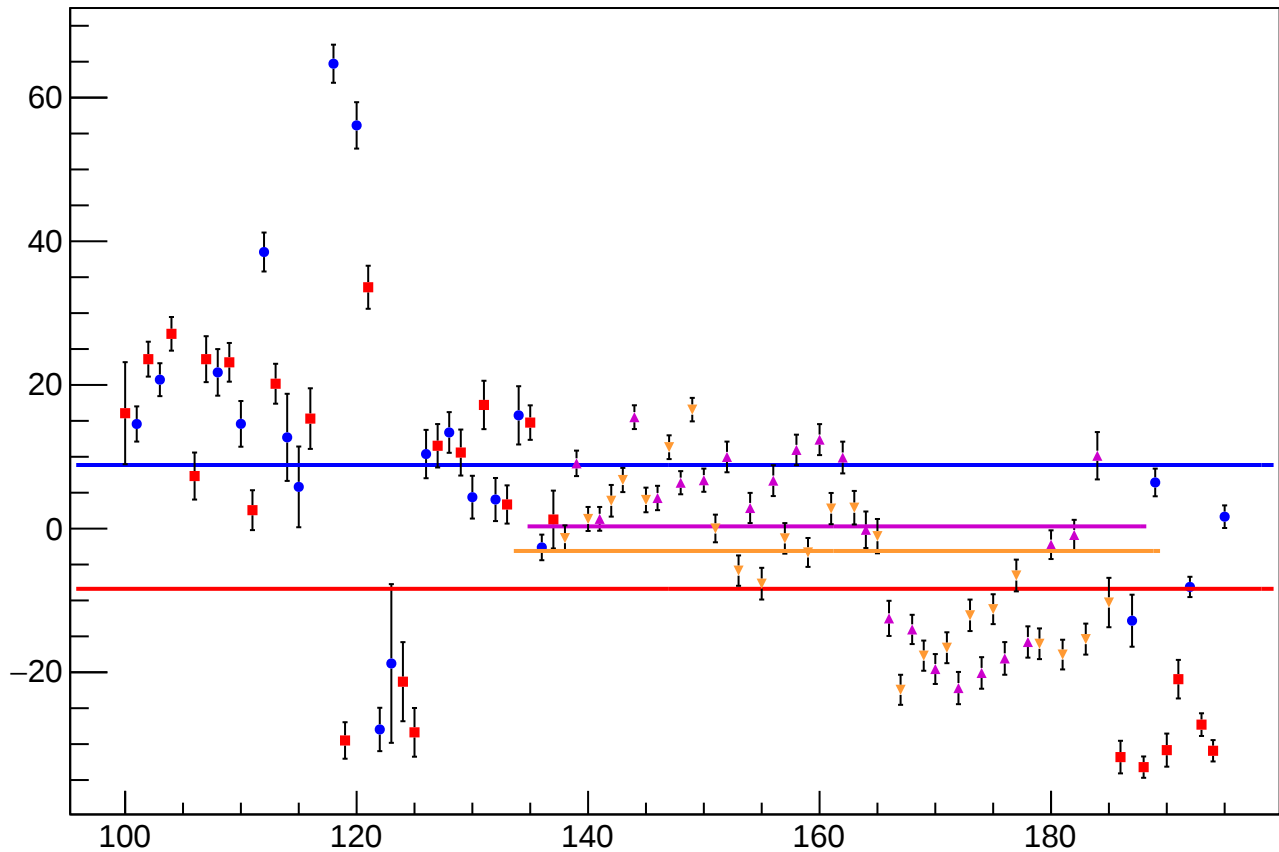
Right: 1775.682 $\pm$ 0.285 χ^2/NDF : 375428.8/45

In: 1958.841 $\pm$ 0.273 χ^2/NDF : 1257317.3/43

Out: 1934.358 $\pm$ 0.257 χ^2/NDF : 1329079.7/49

All: 1945.872 $\pm$ 0.187 χ^2/NDF : 2590659.7/93

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 8.856 ± 0.562 $\chi^2/\text{NDF}: 1239.2/20$

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 $\chi^2/\text{NDF}: 1414.7/47$

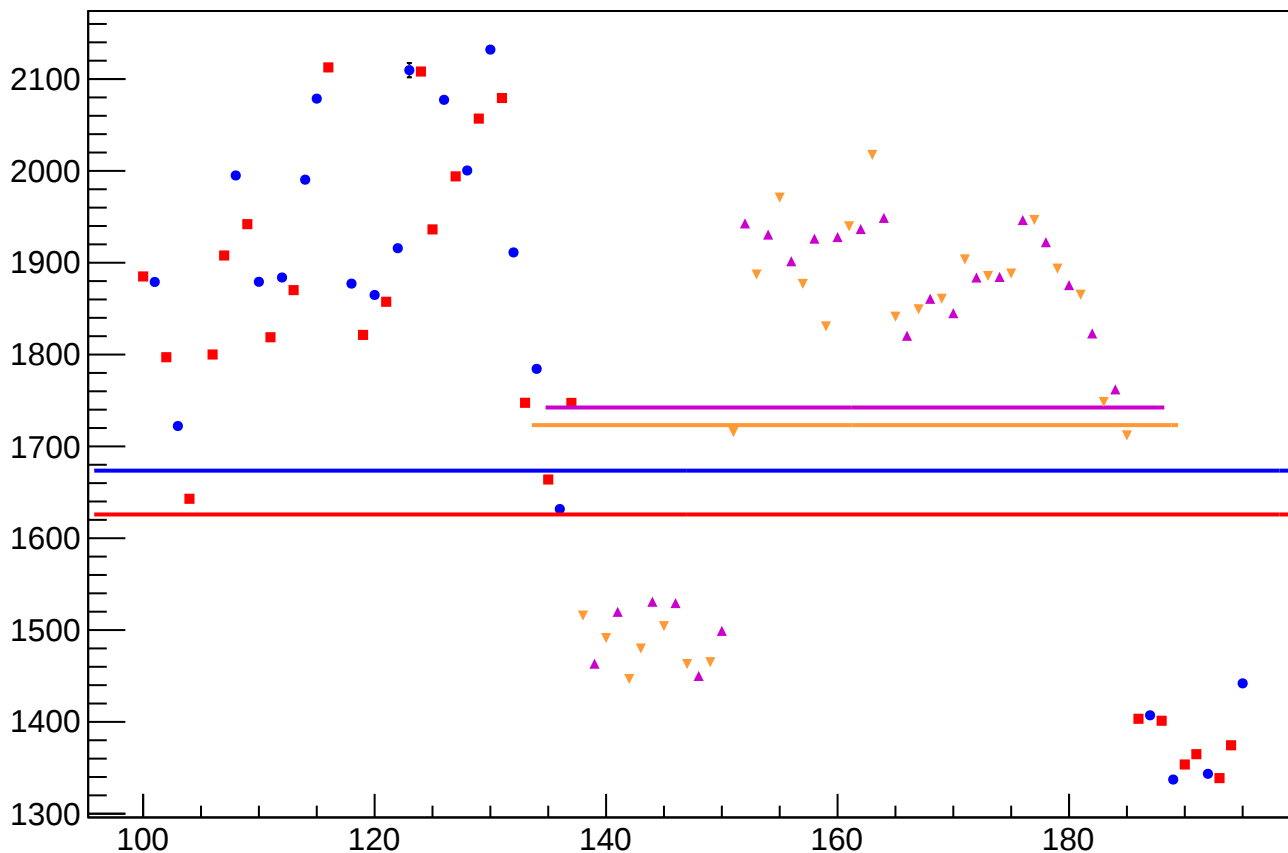
Right: -0.660 ± 0.376 $\chi^2/\text{NDF}: 4021.9/45$

In: 3.383 ± 0.337 $\chi^2/\text{NDF}: 2123.7/43$

Out: -5.163 ± 0.316 $\chi^2/\text{NDF}: 2973.4/49$

All: -1.166 ± 0.230 $\chi^2/\text{NDF}: 5439.5/93$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1673.595 ± 0.397 $\chi^2/\text{NDF}: 448117.9/20$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1625.873 ± 0.358 $\chi^2/\text{NDF}: 512866.8/24$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

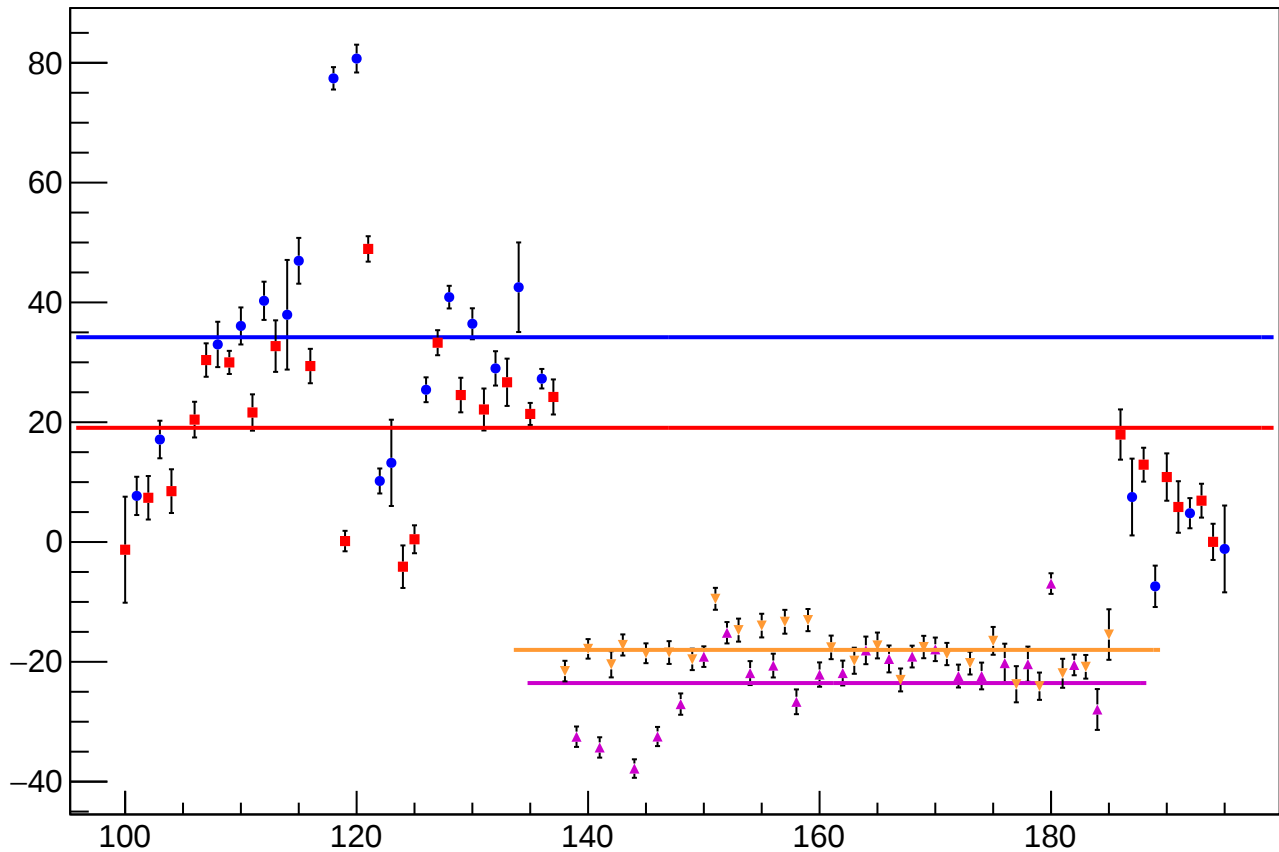
Right: 1647.249 ± 0.266 $\chi^2/\text{NDF}: 968944.6/45$

In: 1717.635 ± 0.238 $\chi^2/\text{NDF}: 903130.6/43$

Out: 1685.287 ± 0.223 $\chi^2/\text{NDF}: 1035416.7/49$

All: 1700.417 ± 0.163 $\chi^2/\text{NDF}: 1948356.4/93$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 34.190 +/- 0.605 χ^2/NDF : 1566.1/20

Left Out: -18.007 +/- 0.397 χ^2/NDF : 73.8/24

Right Out: 19.066 +/- 0.557 χ^2/NDF : 658.9/24

Left In: -23.544 +/- 0.406 χ^2/NDF : 346.7/22

Left: -20.714 +/- 0.284 χ^2/NDF : 515.7/47

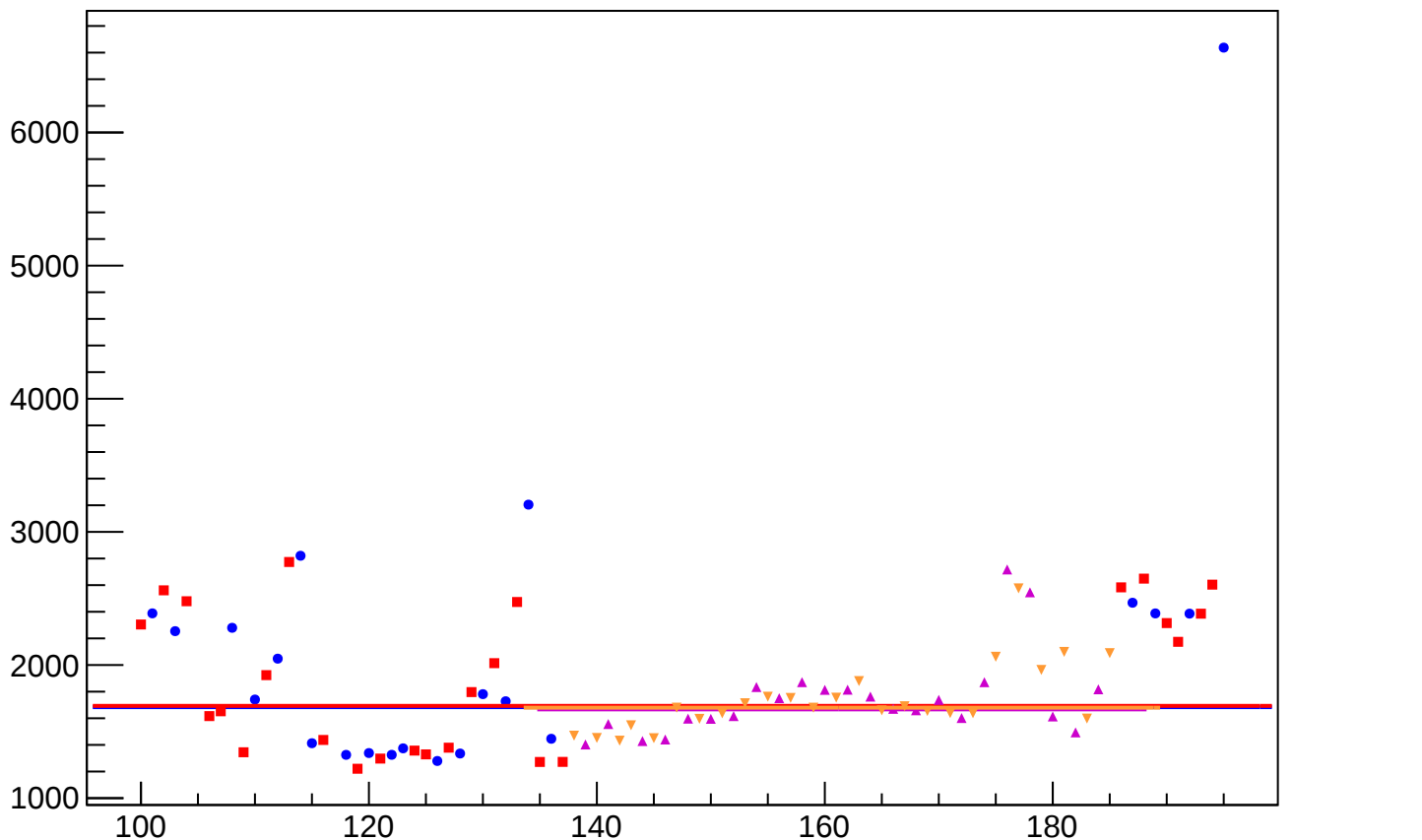
Right: 26.006 +/- 0.410 χ^2/NDF : 2563.5/45

In: -5.622 +/- 0.337 χ^2/NDF : 8200.9/43

Out: -5.524 +/- 0.323 χ^2/NDF : 3673.7/49

All: -5.571 +/- 0.233 χ^2/NDF : 11874.6/93

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1683.704 $\pm$ 0.428 χ^2 /NDF: 1936560.8/20

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

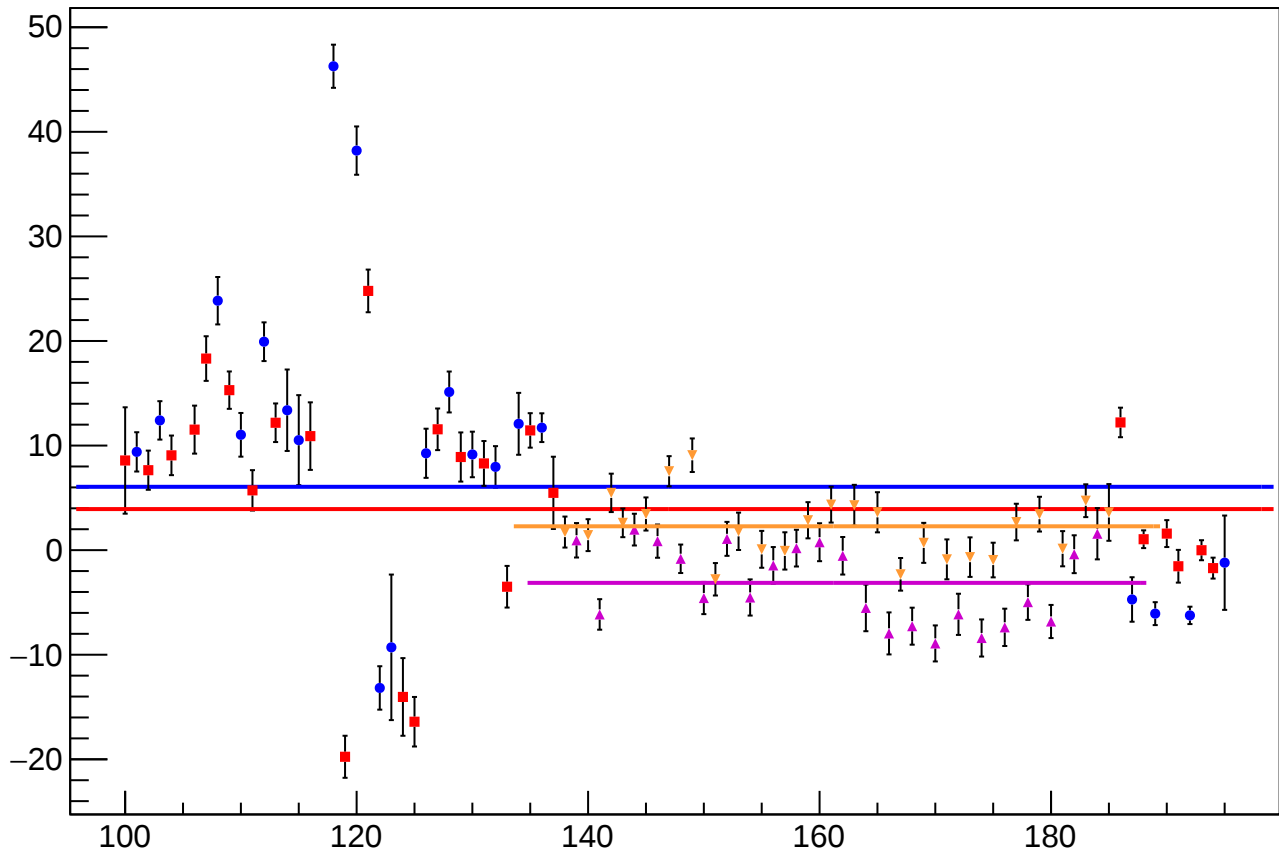
Right: 1688.829 $\pm$ 0.290 χ^2 /NDF: 3646698.7/45

In: 1672.060 $\pm$ 0.238 χ^2 /NDF: 2588627.3/43

Out: 1684.313 $\pm$ 0.228 χ^2 /NDF: 2233431.9/49

All: 1678.443 $\pm$ 0.165 χ^2 /NDF: 4823437.5/93

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 6.057 ± 0.402 $\chi^2/\text{NDF}: 1224.5/20$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 3.927 ± 0.332 $\chi^2/\text{NDF}: 643.5/24$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

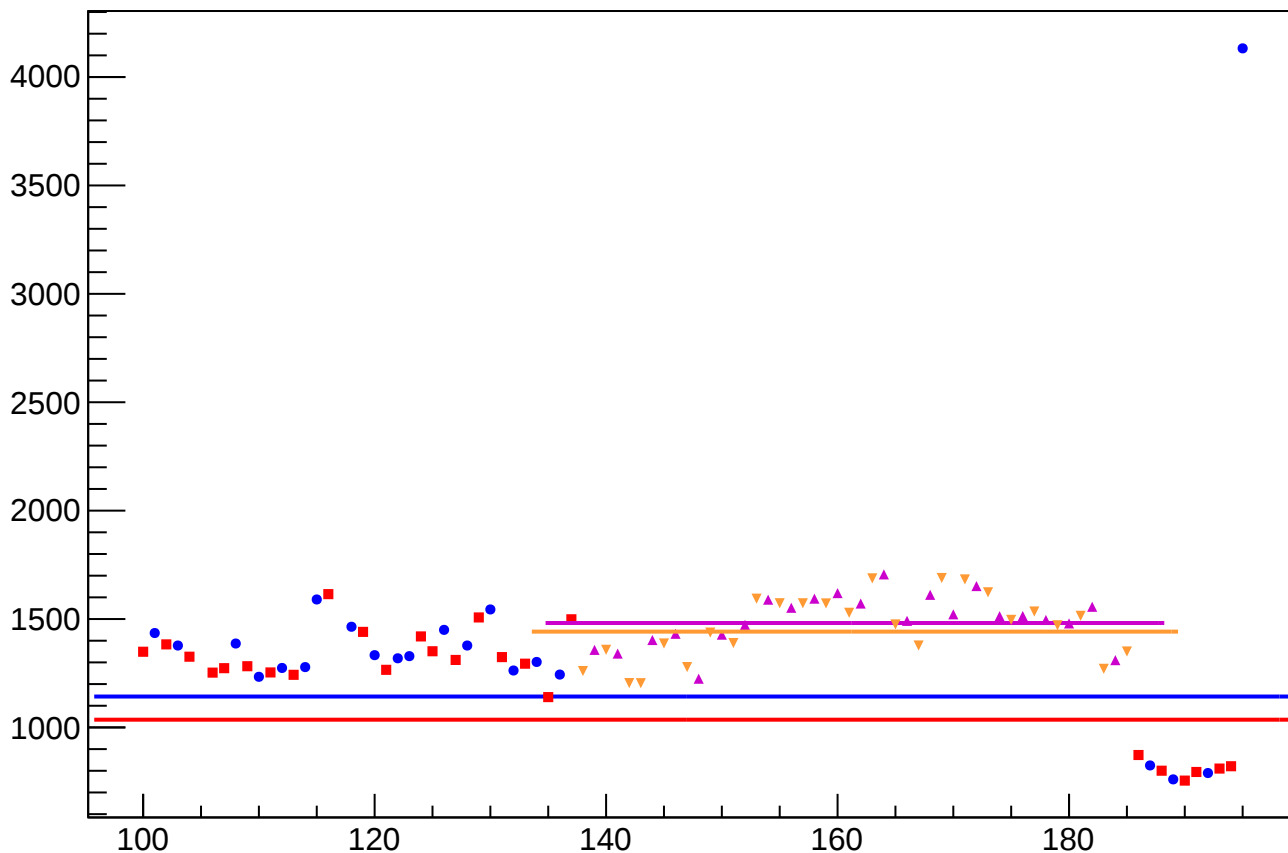
Right: 4.791 ± 0.256 $\chi^2/\text{NDF}: 1884.8/45$

In: 0.931 ± 0.267 $\chi^2/\text{NDF}: 1619.5/43$

Out: 3.119 ± 0.237 $\chi^2/\text{NDF}: 731.2/49$

All: 2.156 ± 0.177 $\chi^2/\text{NDF}: 2388.2/93$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1142.548 $\pm$ 0.284 χ^2 /NDF: 1903936.4/20

Left Out: 1441.951 $\pm$ 0.239 χ^2 /NDF: 370617.4/24

Right Out: 1035.701 $\pm$ 0.235 χ^2 /NDF: 1241986.5/24

Left In: 1481.695 $\pm$ 0.253 χ^2 /NDF: 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2 /NDF: 592125.7/47

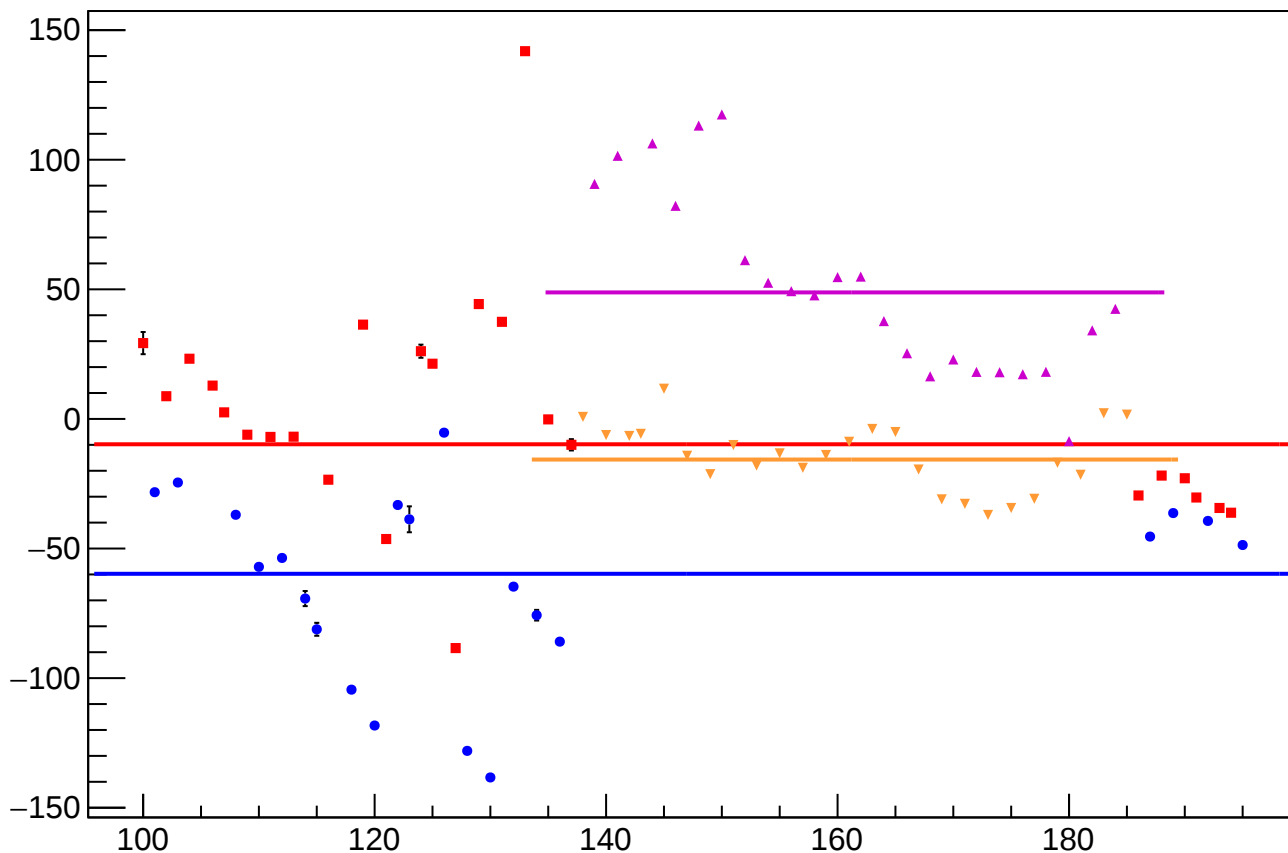
Right: 1079.055 $\pm$ 0.181 χ^2 /NDF: 3229955.4/45

In: 1331.786 $\pm$ 0.189 χ^2 /NDF: 2907397.4/43

Out: 1235.065 $\pm$ 0.168 χ^2 /NDF: 3081853.6/49

All: 1277.652 $\pm$ 0.125 χ^2 /NDF: 6135982.0/93

diff_bpm1i02X_mean vs Slug, Sign Corrected



Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

Right: -32.142 ± 0.184 $\chi^2/\text{NDF}: 57946.4/45$

In: 6.436 ± 0.172 $\chi^2/\text{NDF}: 135135.4/43$

Out: -13.178 ± 0.161 $\chi^2/\text{NDF}: 28805.1/49$

All: -4.015 ± 0.117 $\chi^2/\text{NDF}: 170895.7/93$

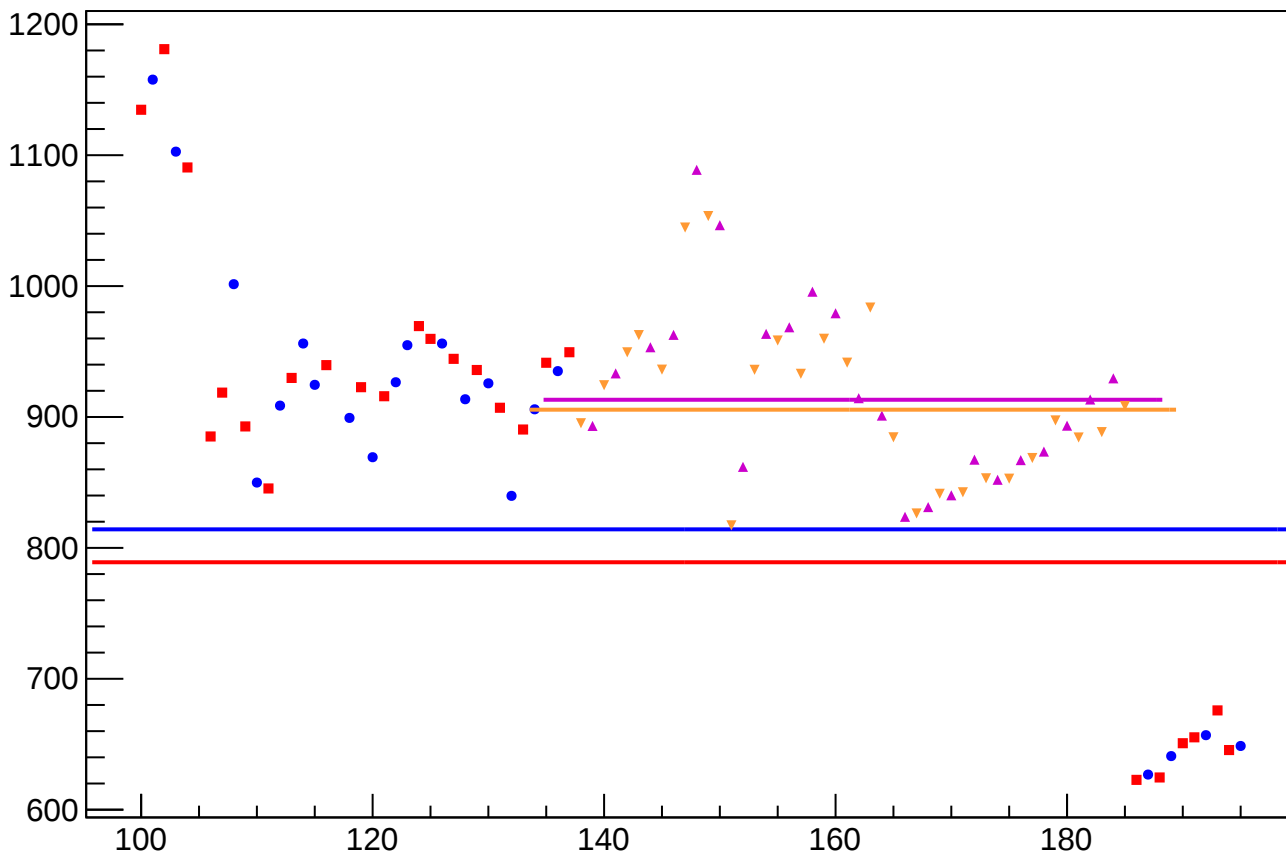
Right In: -59.747 ± 0.275 $\chi^2/\text{NDF}: 14716.9/20$

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 $\chi^2/\text{NDF}: 25260.8/22$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 814.165 ± 0.194 χ^2/NDF : 639969.9/20

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

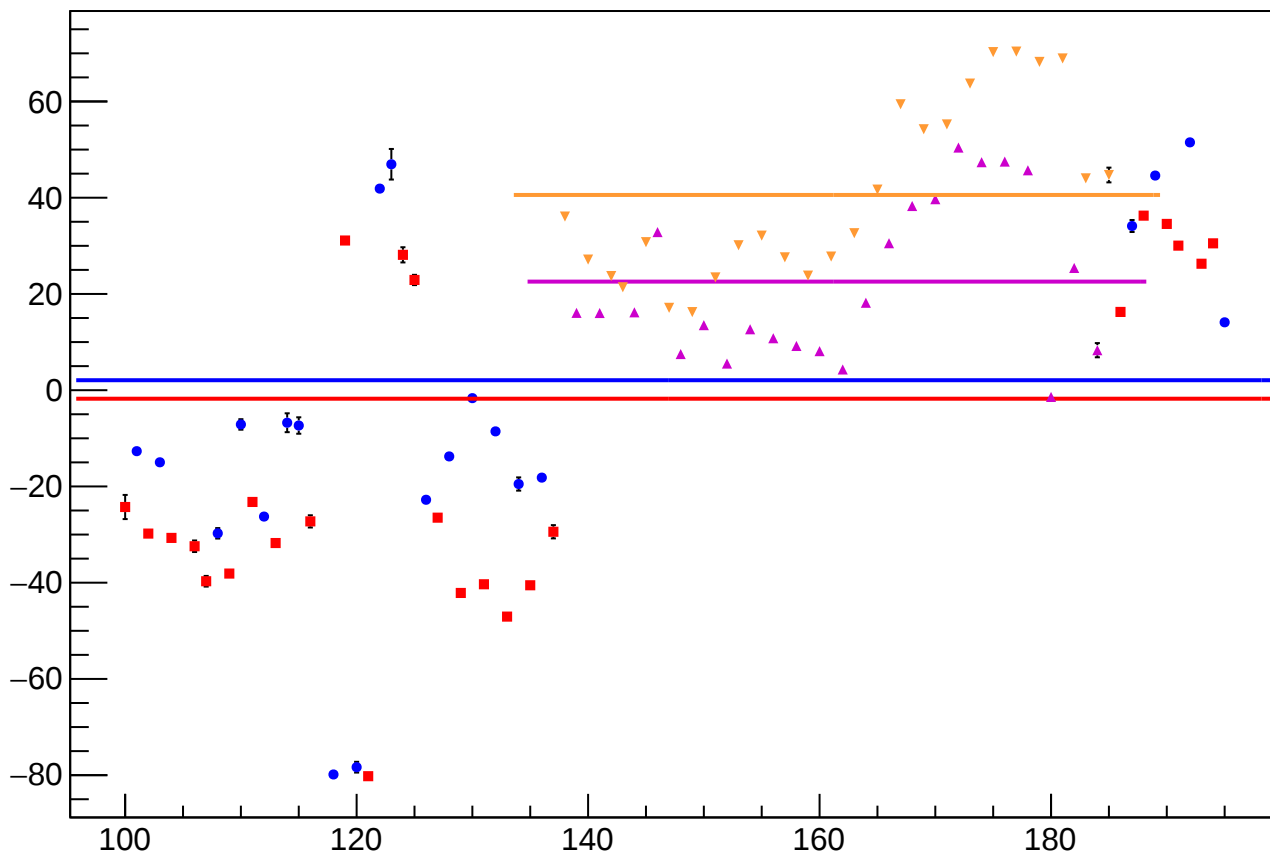
Right: 800.276 ± 0.130 χ^2/NDF : 1457861.7/45

In: 874.520 ± 0.121 χ^2/NDF : 972682.6/43

Out: 856.344 ± 0.114 χ^2/NDF : 1227251.8/49

All: 864.835 ± 0.083 χ^2/NDF : 2211879.7/93

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 2.074 $\pm$ 0.191 χ^2 /NDF: 35119.6/20

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

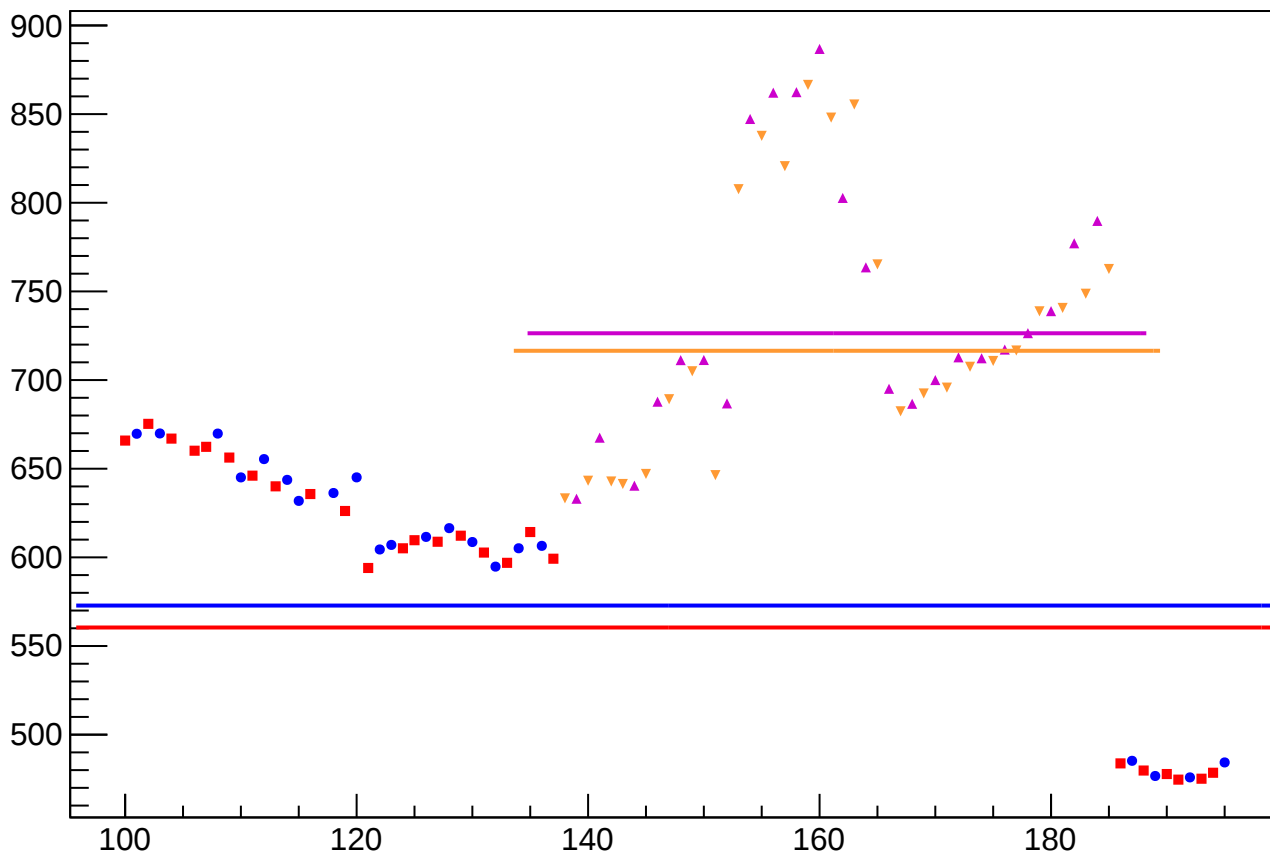
Right: -0.032 $\pm$ 0.129 χ^2 /NDF: 76212.6/45

In: 13.224 $\pm$ 0.129 χ^2 /NDF:49517.9/43

Out: 20.151 $\pm$ 0.121 χ^2 /NDF:83647.5/49

All: 16.923 $\pm$ 0.088 χ^2 /NDF: 134698.5/93

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Left: 721.238 ± 0.086 $\chi^2/\text{NDF}: 635840.6/47$

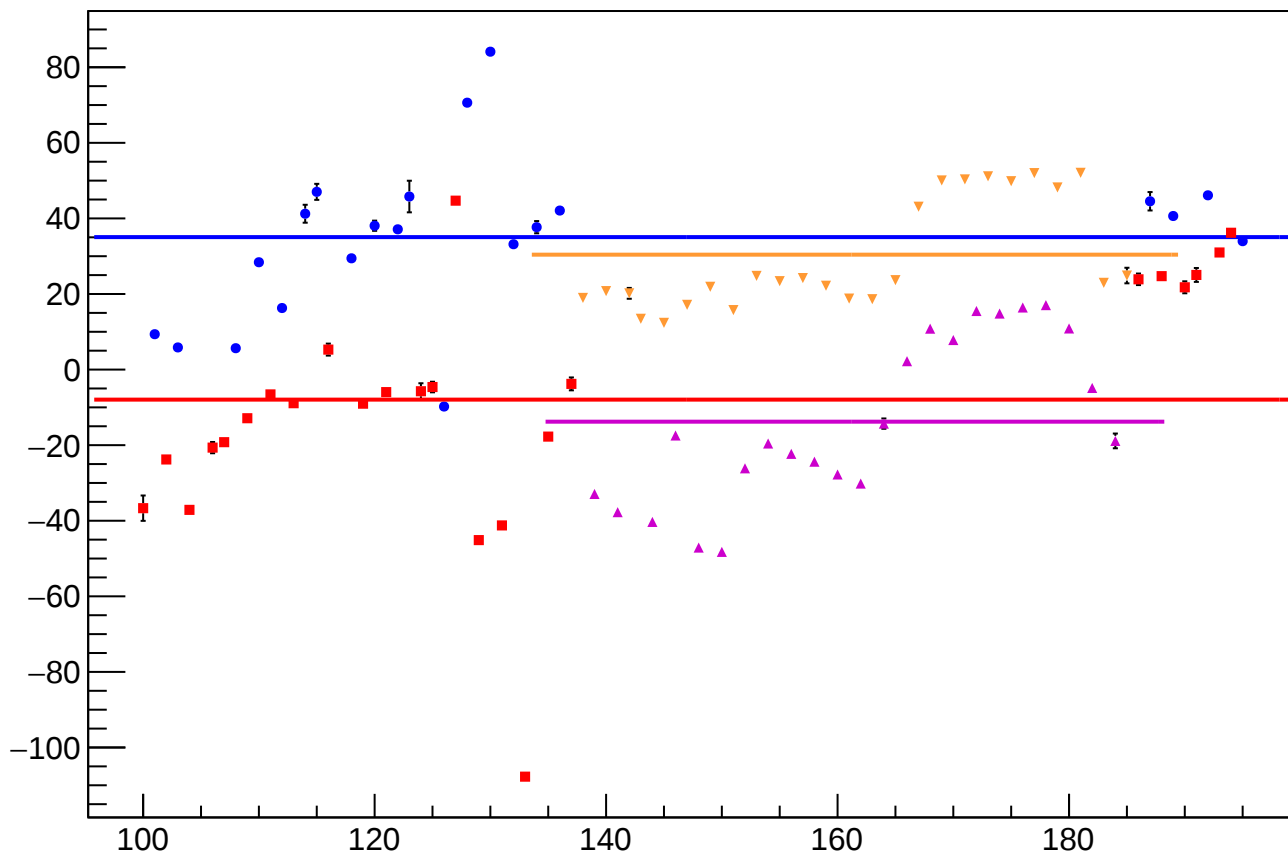
Right: 566.033 ± 0.091 $\chi^2/\text{NDF}: 718599.3/45$

In: 656.377 ± 0.091 $\chi^2/\text{NDF}: 1303445.6/43$

Out: 641.238 ± 0.085 $\chi^2/\text{NDF}: 1577169.1/49$

All: 648.291 ± 0.062 $\chi^2/\text{NDF}: 2895259.3/93$

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 35.054 $\pm$ 0.269 χ^2 /NDF: 6608.7/20

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF: 3808.0/24

Right Out: -7.949 $\pm$ 0.253 χ^2 /NDF: 18420.6/24

Left In: -13.787 $\pm$ 0.246 χ^2 /NDF: 7979.7/22

Left: 9.082 $\pm$ 0.171 χ^2 /NDF: 28511.9/47

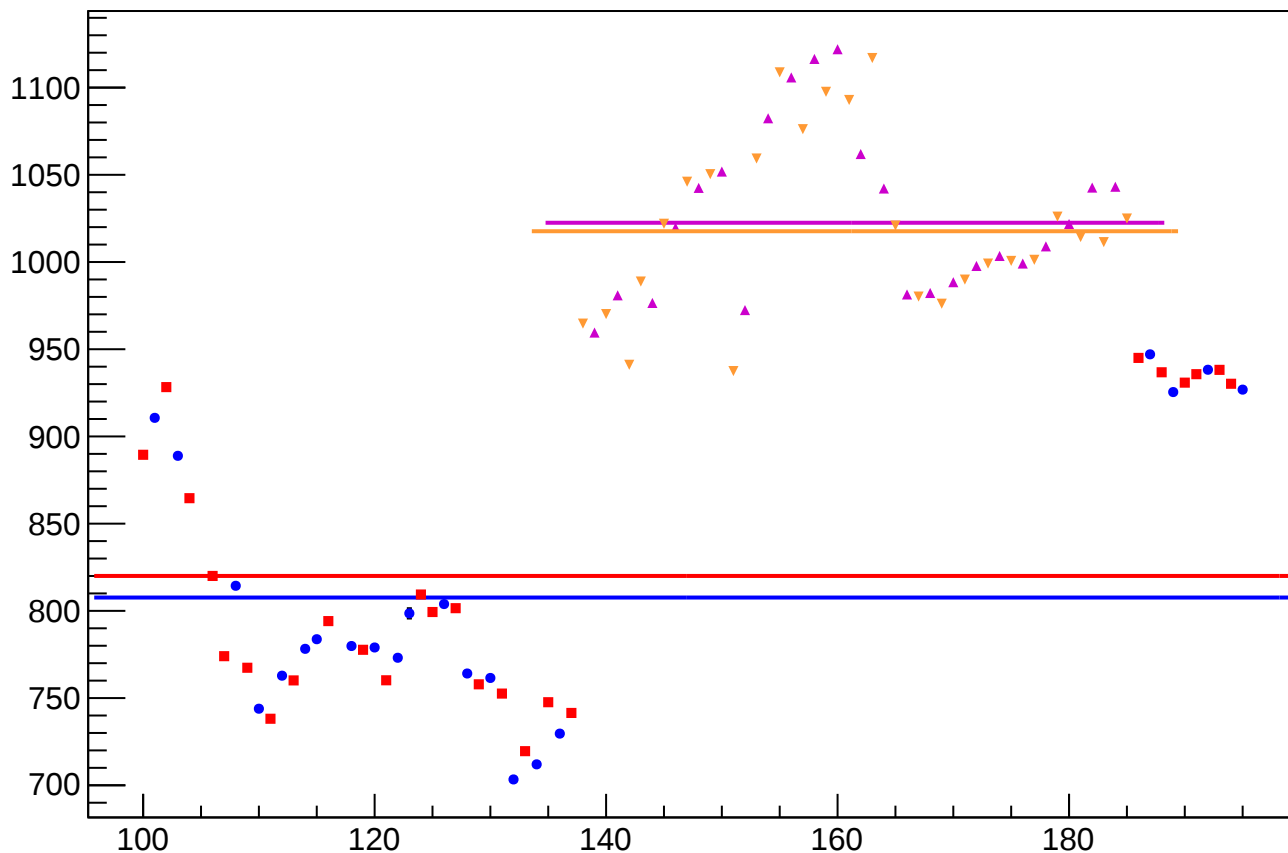
Right: 12.256 $\pm$ 0.184 χ^2 /NDF: 38577.2/45

In: 8.439 $\pm$ 0.181 χ^2 /NDF: 32551.5/43

Out: 12.467 $\pm$ 0.173 χ^2 /NDF: 34439.3/49

All: 10.547 $\pm$ 0.125 χ^2 /NDF: 67248.6/93

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 807.643 $\pm$ 0.190 χ^2 /NDF: 173545.2/20

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 820.022 $\pm$ 0.179 χ^2 /NDF: 198728.4/24

Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF: 69635.5/22

Left: 1019.997 $\pm$ 0.121 χ^2 /NDF: 153652.2/47

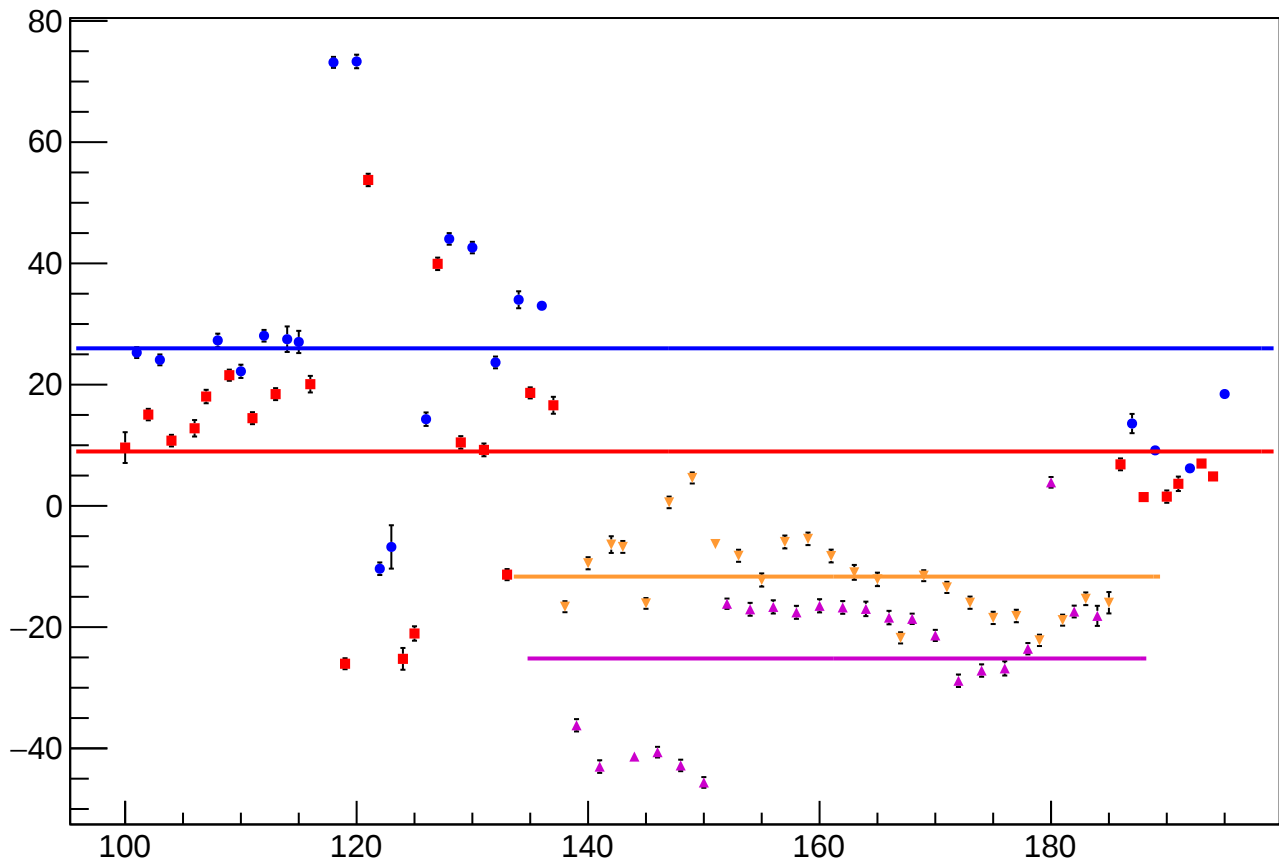
Right: 814.205 $\pm$ 0.130 χ^2 /NDF: 374518.9/45

In: 924.731 $\pm$ 0.128 χ^2 /NDF: 938506.9/43

Out: 925.215 $\pm$ 0.122 χ^2 /NDF: 930643.3/49

All: 924.985 $\pm$ 0.089 χ^2 /NDF: 1869157.7/93

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 25.990 $\pm$ 0.209 χ^2/NDF : 8407.9/20

Left Out: -11.664 $\pm$ 0.200 χ^2/NDF :1147.4/24

Right Out: 8.974 $\pm$ 0.196 χ^2/NDF : 6700.4/24

Left In: -25.174 $\pm$ 0.207 χ^2/NDF :3747.1/22

Left: -18.184 $\pm$ 0.144 χ^2/NDF : 7090.4/47

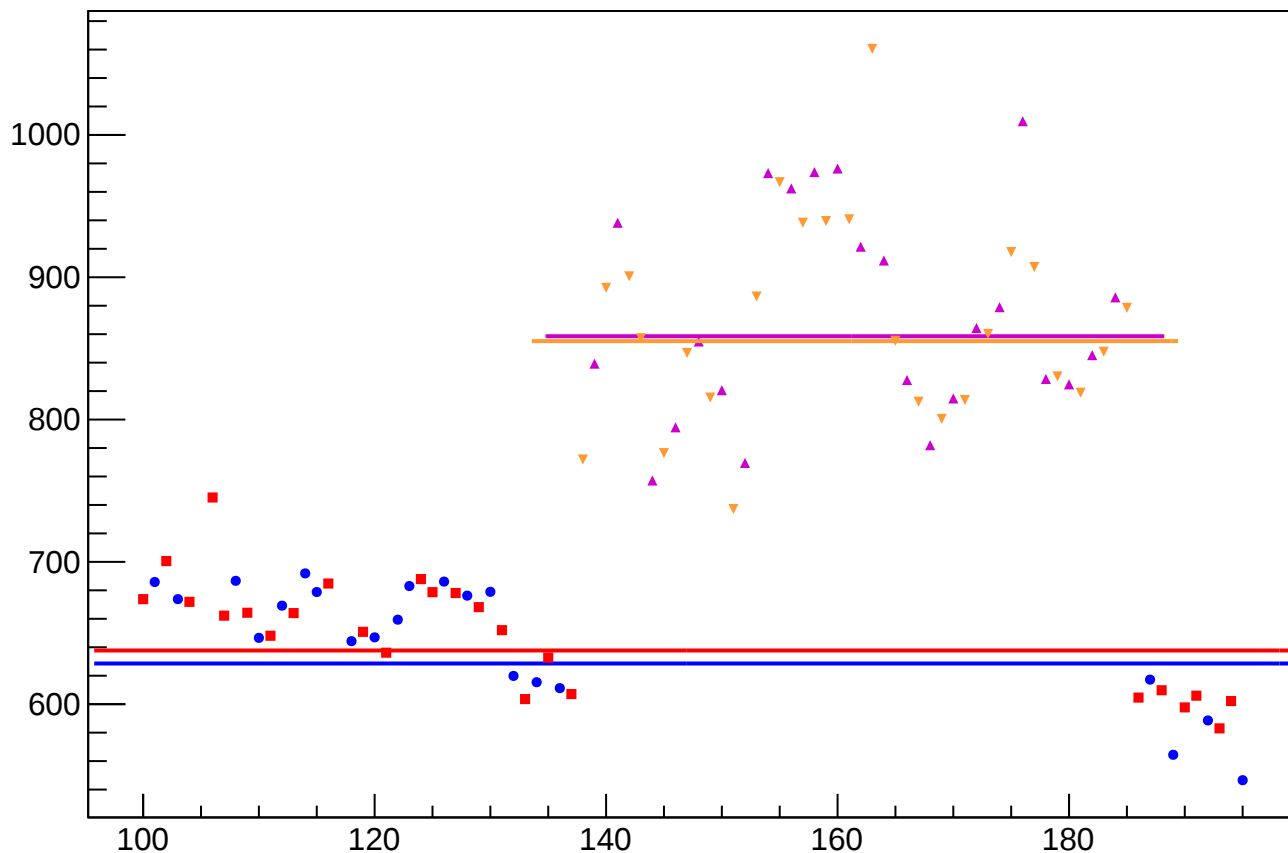
Right: 16.943 $\pm$ 0.143 χ^2/NDF : 18621.8/45

In: 0.169 $\pm$ 0.147 χ^2/NDF :42306.6/43

Out: -1.145 $\pm$ 0.140 χ^2/NDF :13259.7/49

All: -0.520 $\pm$ 0.102 χ^2/NDF : 55608.0/93

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 628.587 ± 0.148 $\chi^2/\text{NDF}: 104785.7/20$

Left Out: 855.131 ± 0.142 $\chi^2/\text{NDF}: 233746.7/24$

Right Out: 637.726 ± 0.139 $\chi^2/\text{NDF}: 73362.5/24$

Left In: 858.563 ± 0.147 $\chi^2/\text{NDF}: 239019.8/22$

Left: 856.788 ± 0.102 $\chi^2/\text{NDF}: 473049.9/47$

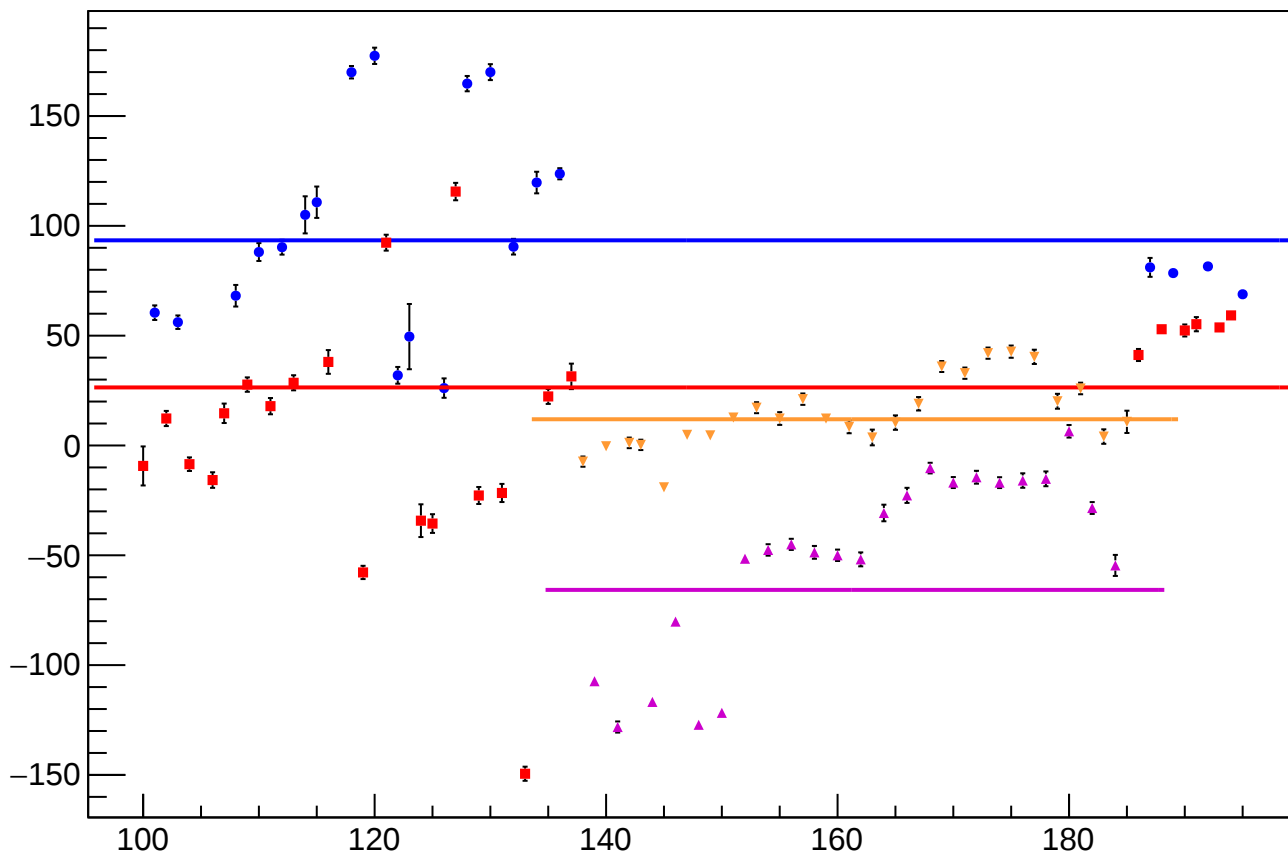
Right: 633.446 ± 0.101 $\chi^2/\text{NDF}: 180175.1/45$

In: 744.650 ± 0.104 $\chi^2/\text{NDF}: 1562169.0/43$

Out: 744.325 ± 0.099 $\chi^2/\text{NDF}: 1508192.7/49$

All: 744.480 ± 0.072 $\chi^2/\text{NDF}: 3070366.8/93$

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 93.405+/-0.681 χ^2/NDF : 3381.8/20

Left Out: 11.938+/-0.505 χ^2/NDF : 976.6/24

Right Out: 26.426+/-0.622 χ^2/NDF : 6498.3/24

Left In: -65.752+/-0.518 χ^2/NDF : 7335.8/22

Left: -25.968+/-0.362 χ^2/NDF : 19845.5/47

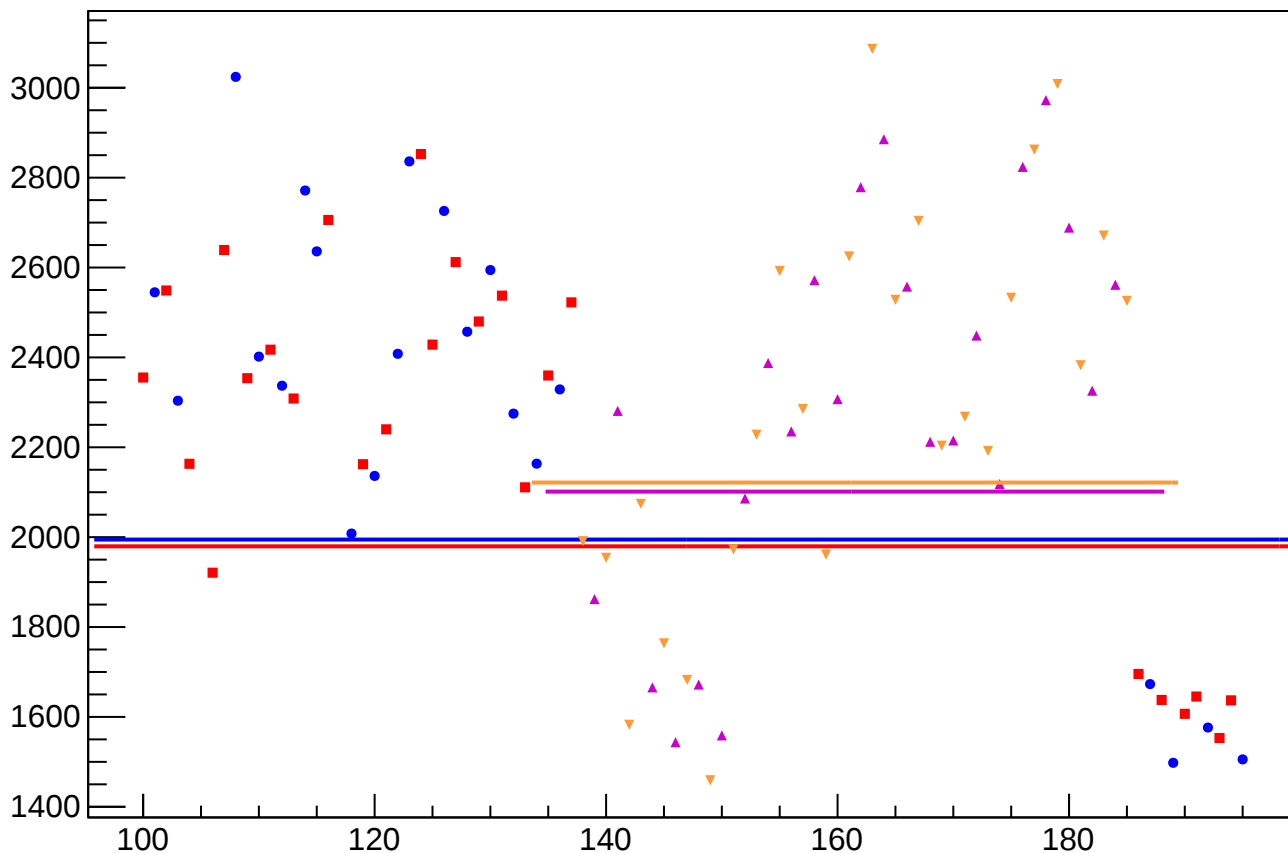
Right: 56.905+/-0.459 χ^2/NDF : 15159.1/45

In: -7.411+/-0.412 χ^2/NDF : 45365.3/43

Out: 17.700+/-0.392 χ^2/NDF : 7801.9/49

All: 5.764+/-0.284 χ^2/NDF : 55116.1/93

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1994.665 ± 0.481 $\chi^2/\text{NDF}: 876599.0/20$

Left Out: 2121.567 ± 0.357 $\chi^2/\text{NDF}: 1387847.6/24$

Right Out: 1979.603 ± 0.440 $\chi^2/\text{NDF}: 792138.0/24$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

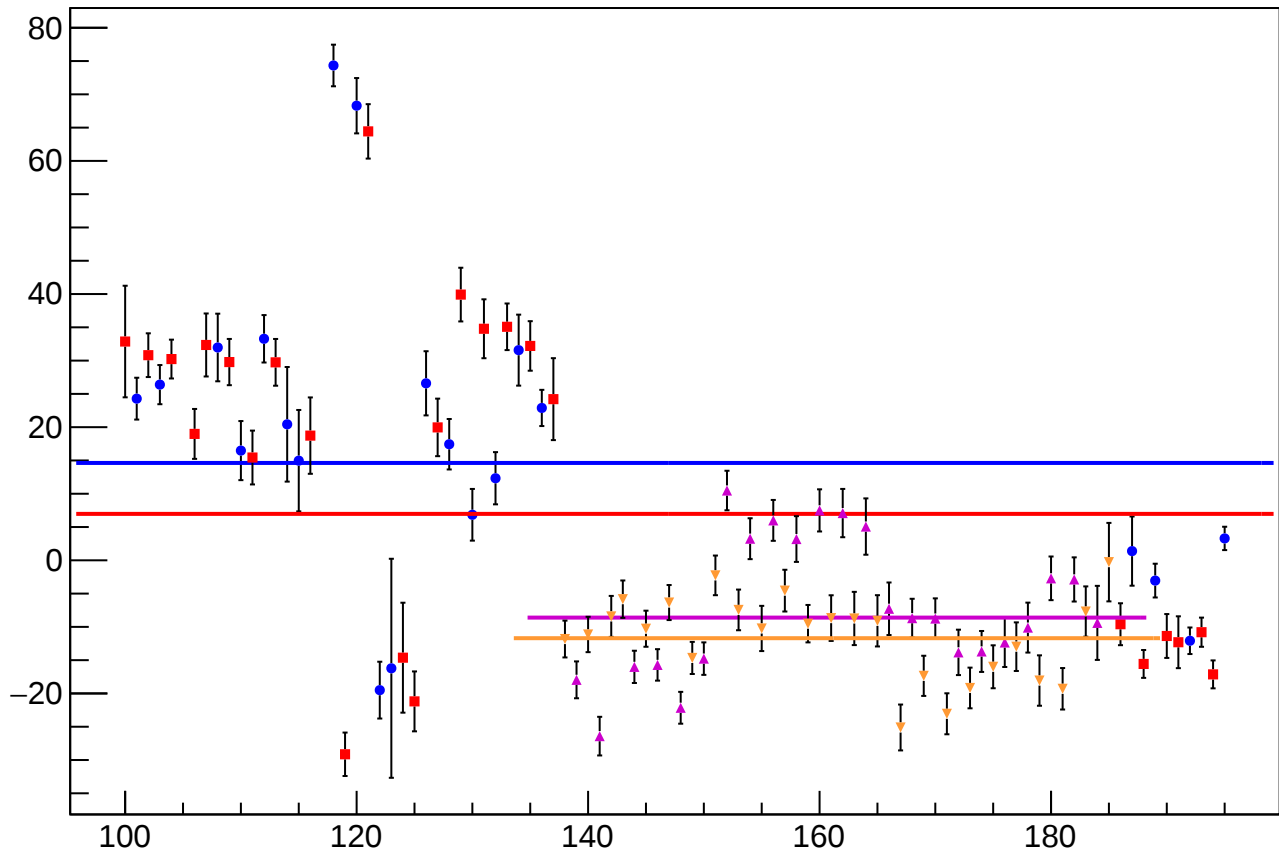
Right: 1986.457 ± 0.325 $\chi^2/\text{NDF}: 1669271.0/45$

In: 2062.227 ± 0.291 $\chi^2/\text{NDF}: 2268238.4/43$

Out: 2065.107 ± 0.277 $\chi^2/\text{NDF}: 2242765.1/49$

All: 2063.739 ± 0.201 $\chi^2/\text{NDF}: 4511054.8/93$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 14.627+/-0.742 χ^2/NDF : 970.9/20

Left Out: -11.700+/-0.625 χ^2/NDF : 85.0/24

Right Out: 6.975+/-0.693 χ^2/NDF : 1255.3/24

Left In: -8.606+/-0.642 χ^2/NDF : 264.2/22

Left: -10.193+/-0.448 χ^2/NDF : 361.1/47

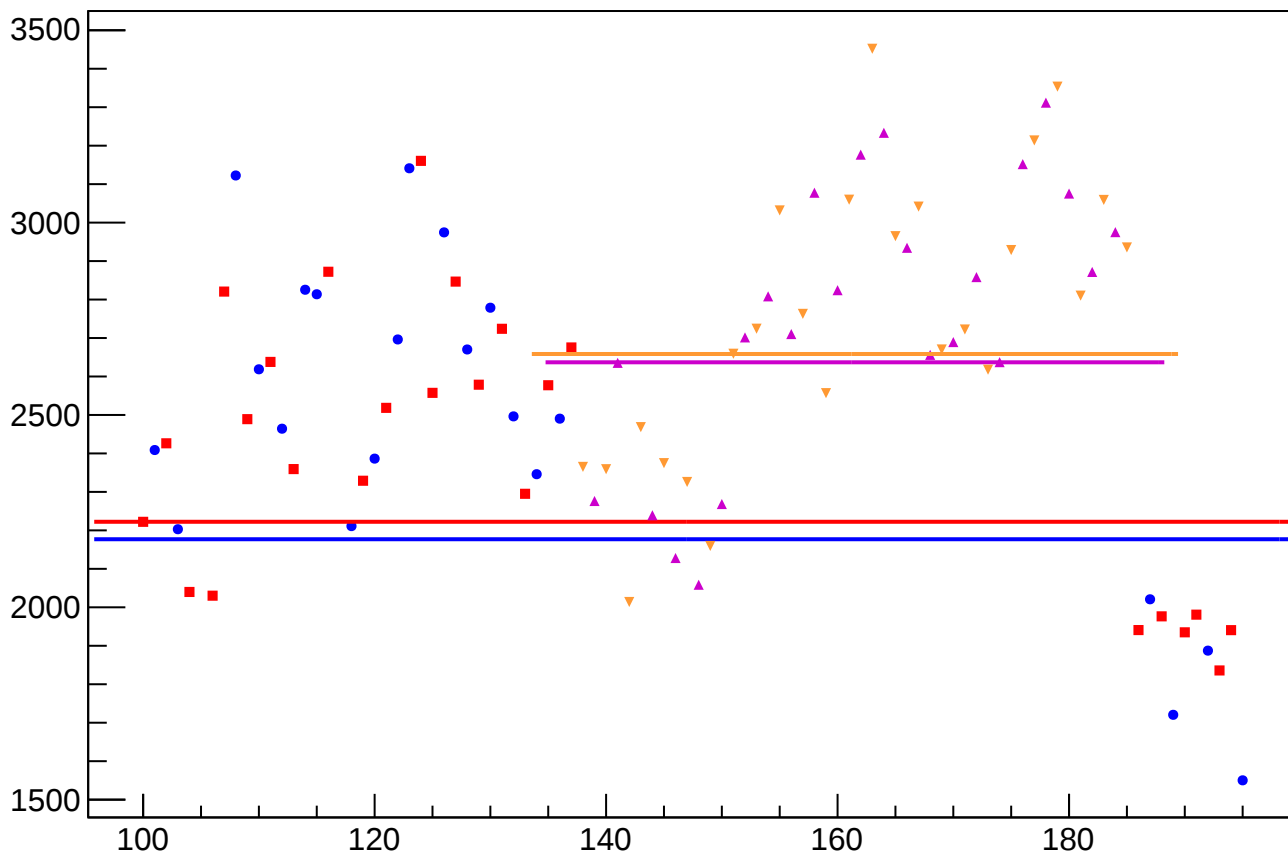
Right: 10.542+/-0.506 χ^2/NDF : 2283.0/45

In: 1.345+/-0.485 χ^2/NDF : 1796.2/43

Out: -3.316+/-0.464 χ^2/NDF : 1740.6/49

All: -1.089+/-0.336 χ^2/NDF : 3584.9/93

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2176.944 $\pm$ 0.524 χ^2 /NDF: 723035.8/20

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2222.345 $\pm$ 0.490 χ^2 /NDF: 441660.3/24

Left In: 2636.885 $\pm$ 0.454 χ^2 /NDF: 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2 /NDF: 1272190.1/47

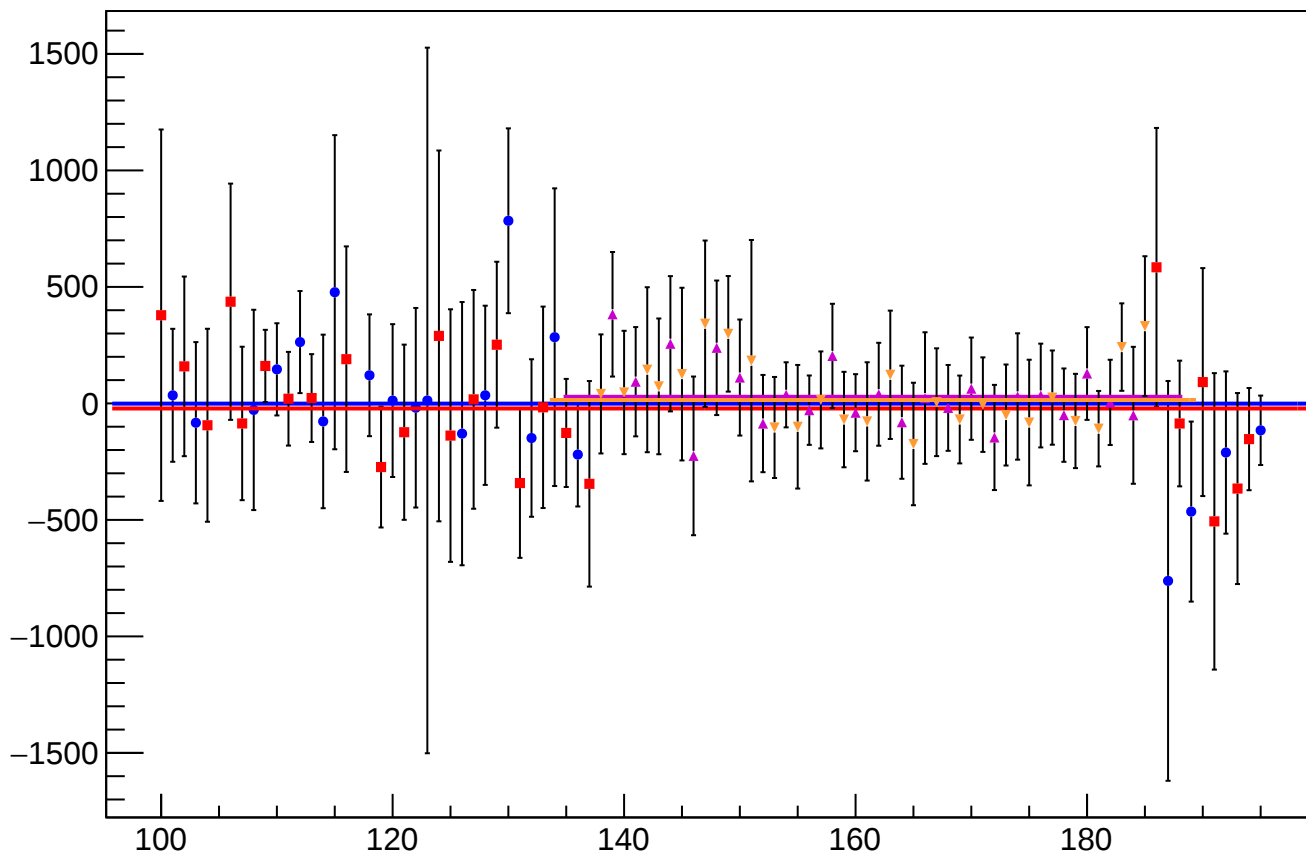
Right: 2201.183 $\pm$ 0.358 χ^2 /NDF: 1168697.9/45

In: 2439.883 $\pm$ 0.343 χ^2 /NDF: 1815706.0/43

Out: 2462.684 $\pm$ 0.328 χ^2 /NDF: 1496408.3/49

All: 2451.790 $\pm$ 0.237 χ^2 /NDF: 3314419.0/93

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -0.968 ± 67.328 $\chi^2/\text{NDF}: 11.4/20$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -21.792 ± 62.738 $\chi^2/\text{NDF}: 9.4/24$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

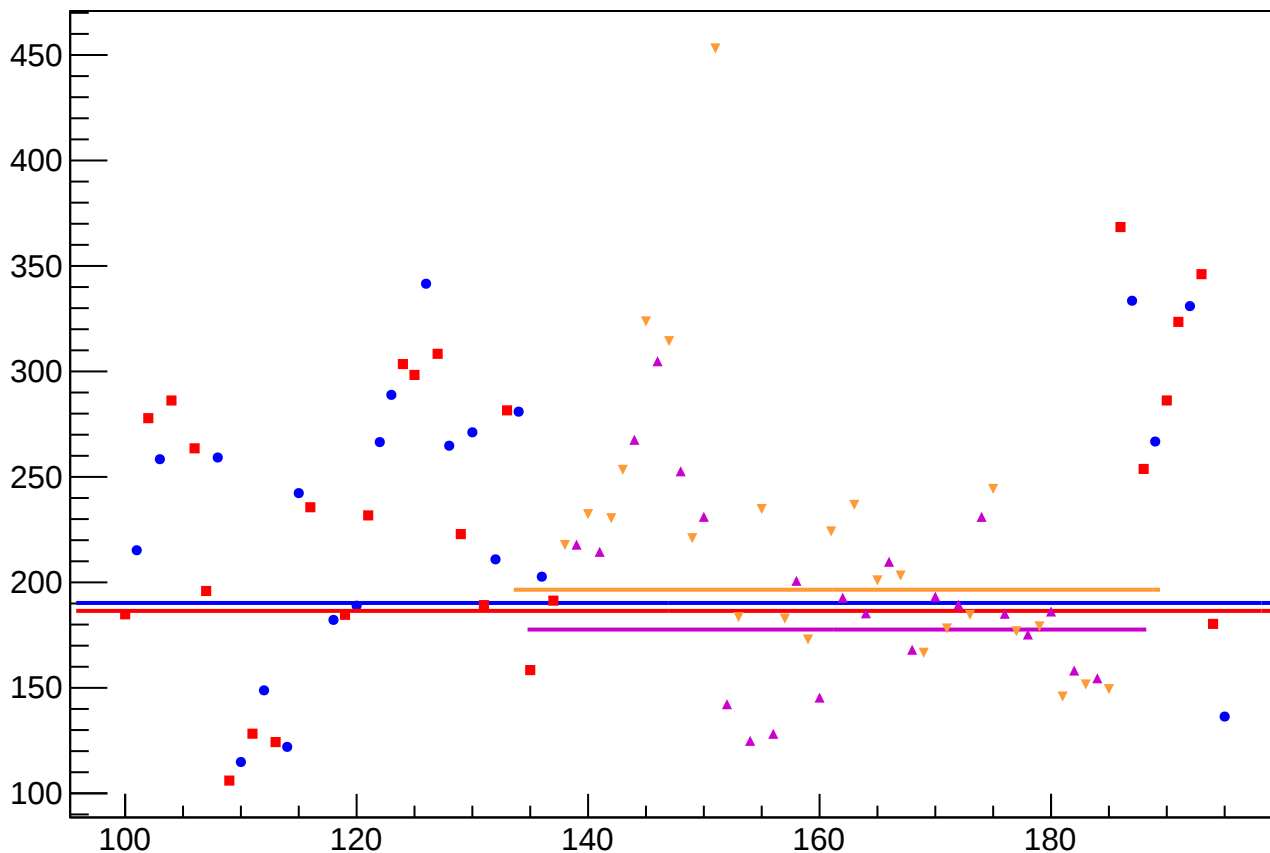
Right: -12.114 ± 45.899 $\chi^2/\text{NDF}: 20.8/45$

In: 19.370 ± 37.204 $\chi^2/\text{NDF}: 17.8/43$

Out: 1.279 ± 37.885 $\chi^2/\text{NDF}: 17.4/49$

All: 10.488 ± 26.545 $\chi^2/\text{NDF}: 35.2/93$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.245 $\pm$ 0.048 χ^2 /NDF: 1737030.8/20

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF: 1789504.4/24

Right Out: 186.488 $\pm$ 0.044 χ^2 /NDF: 2450445.8/24

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF: 1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

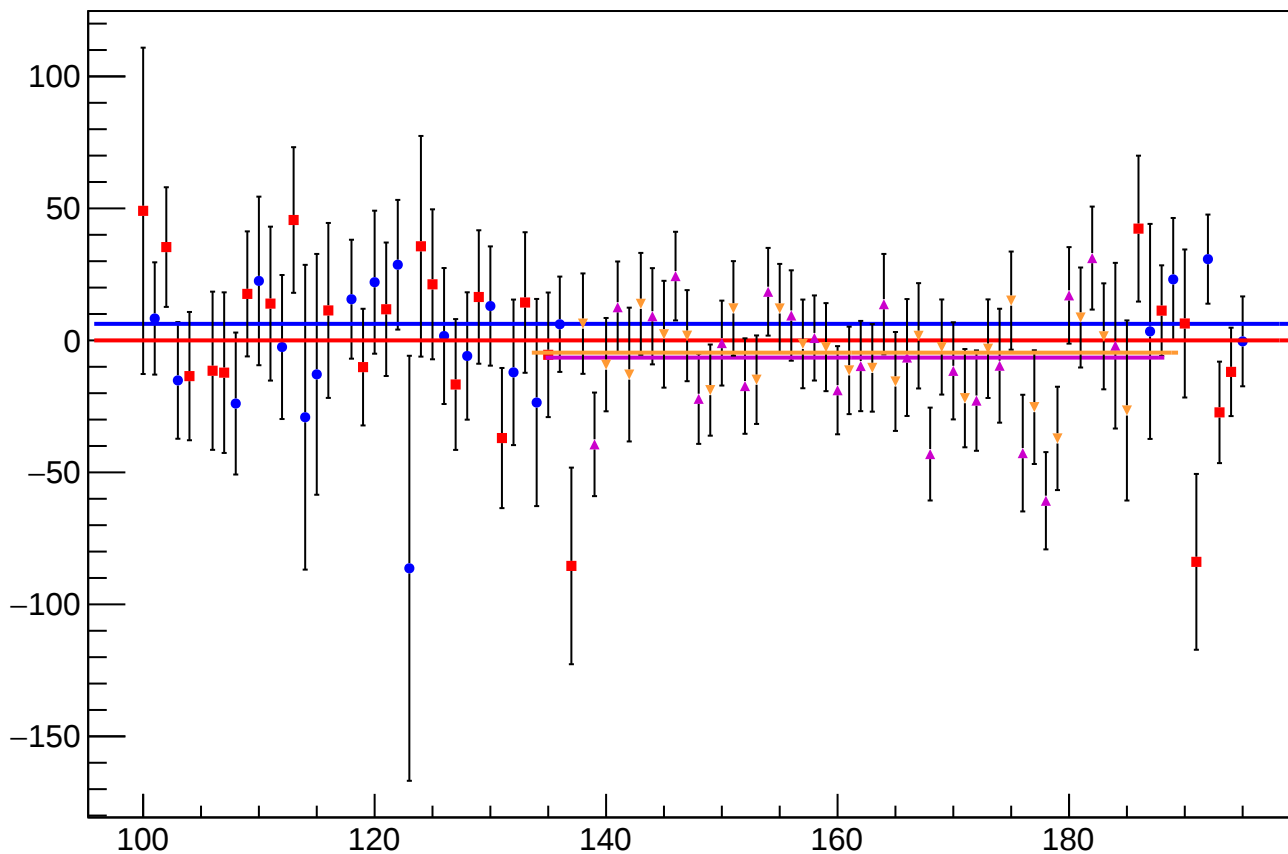
Right: 188.234 $\pm$ 0.032 χ^2 /NDF: 4190809.7/45

In: 181.491 $\pm$ 0.026 χ^2 /NDF: 3416365.8/43

Out: 192.858 $\pm$ 0.027 χ^2 /NDF: 4272403.2/49

All: 187.072 $\pm$ 0.019 χ^2 /NDF: 7780426.6/93

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.264 ± 5.462 $\chi^2/\text{NDF}: 10.0/20$

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 $\chi^2/\text{NDF}: 48.6/47$

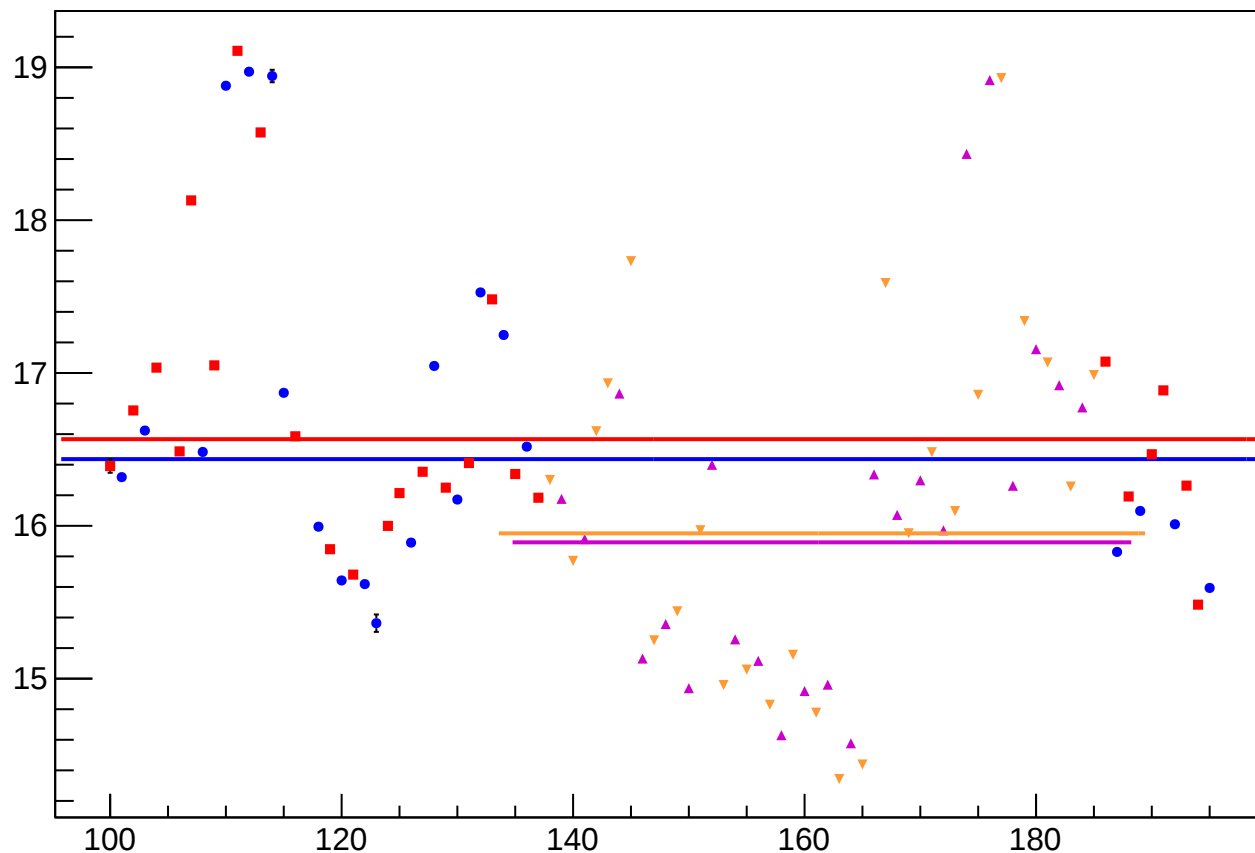
Right: 2.918 ± 3.729 $\chi^2/\text{NDF}: 39.8/45$

In: -2.314 ± 3.134 $\chi^2/\text{NDF}: 50.0/43$

Out: -3.030 ± 3.010 $\chi^2/\text{NDF}: 41.7/49$

All: -2.686 ± 2.171 $\chi^2/\text{NDF}: 91.8/93$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.436 $\pm$ 0.004 χ^2/NDF : 51730.2/20

Left Out: 15.951 $\pm$ 0.003 χ^2/NDF :173458.5/24

Right Out: 16.567 $\pm$ 0.004 χ^2/NDF : 52051.5/24

Left In: 15.892 $\pm$ 0.003 χ^2/NDF :147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2/NDF : 320794.5/47

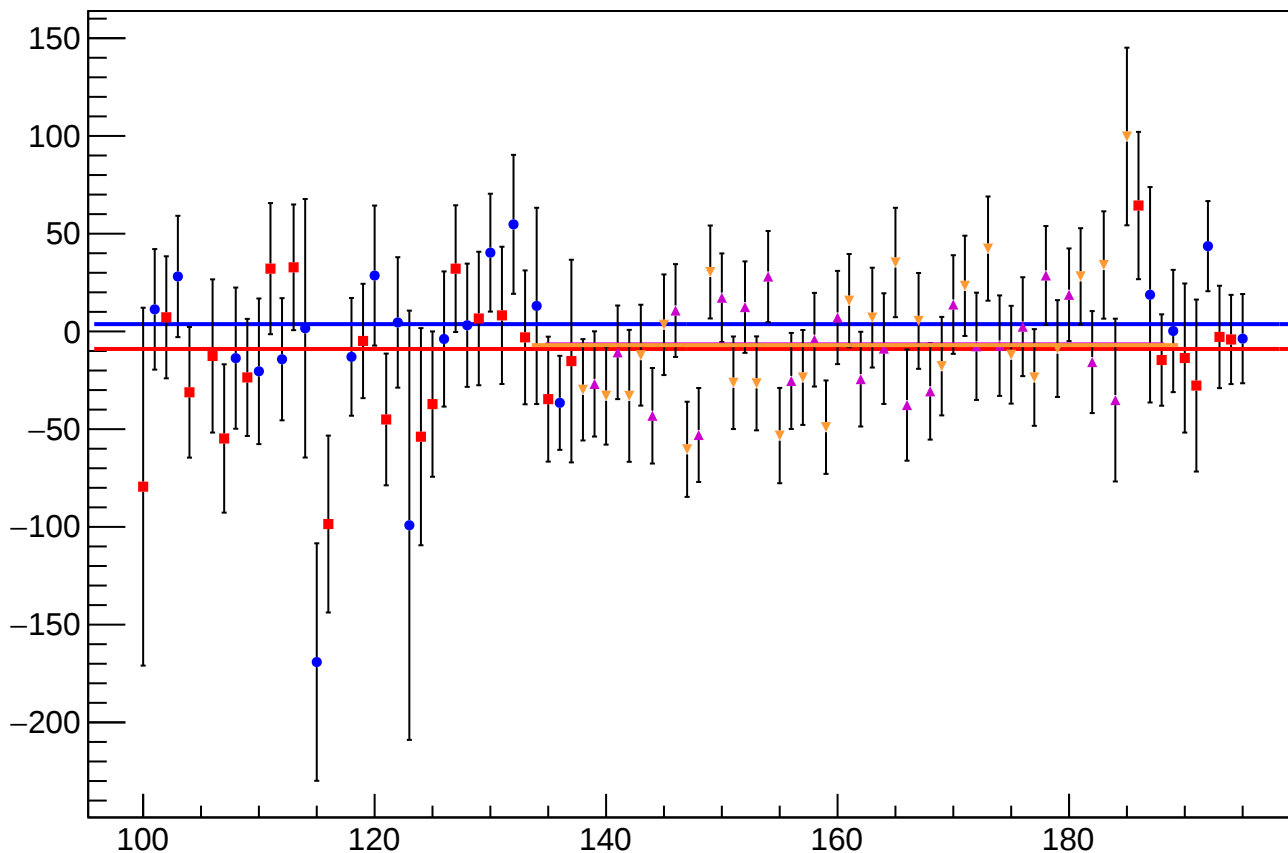
Right: 16.506 $\pm$ 0.003 χ^2/NDF : 104391.7/45

In: 16.071 $\pm$ 0.002 χ^2/NDF :212158.3/43

Out: 16.165 $\pm$ 0.002 χ^2/NDF :244528.2/49

All: 16.120 $\pm$ 0.002 χ^2/NDF : 457620.6/93

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.731 ± 7.259 $\chi^2/\text{NDF}: 21.0/20$

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 $\chi^2/\text{NDF}: 56.6/47$

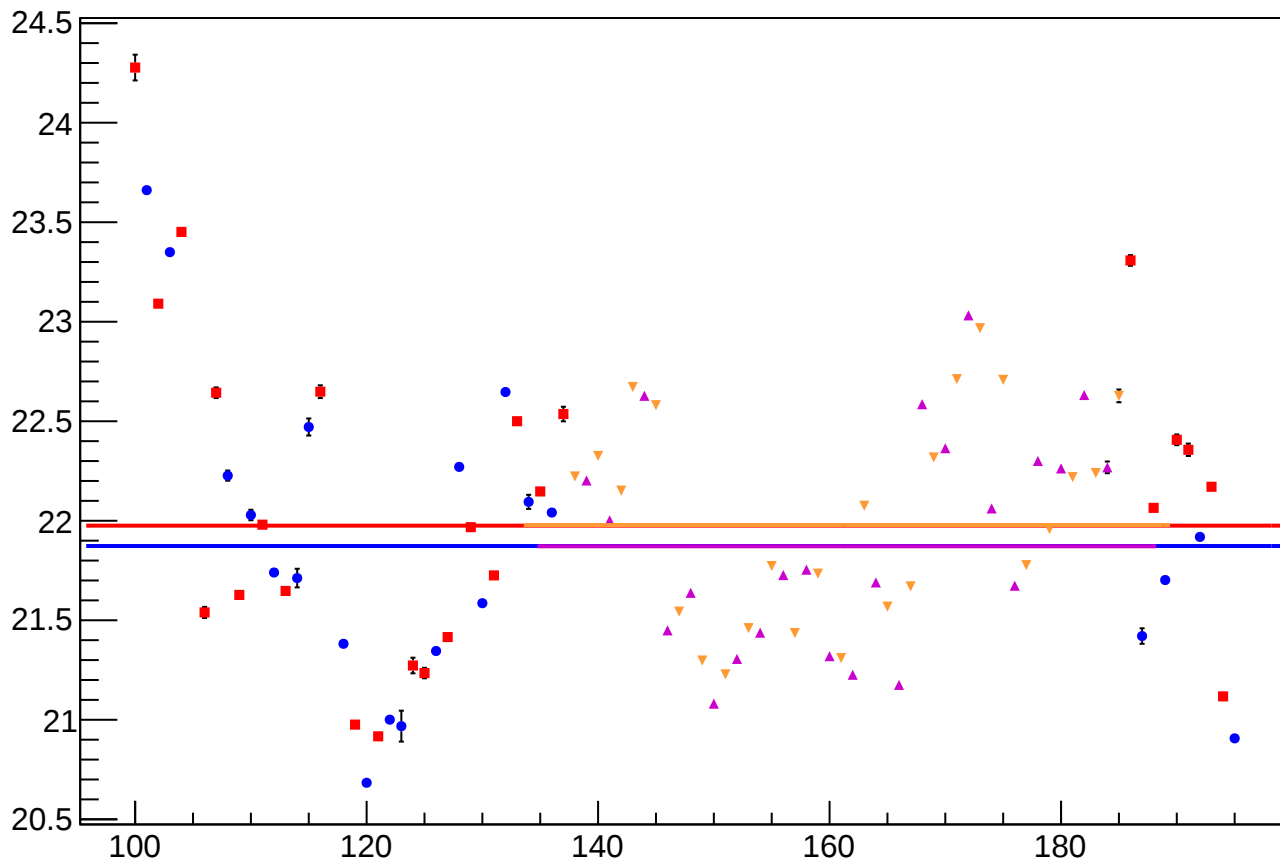
Right: -3.072 ± 4.947 $\chi^2/\text{NDF}: 42.1/45$

In: -3.059 ± 4.255 $\chi^2/\text{NDF}: 41.5/43$

Out: -7.729 ± 4.082 $\chi^2/\text{NDF}: 56.9/49$

All: -5.491 ± 2.946 $\chi^2/\text{NDF}: 99.0/93$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.873+/-0.005 χ^2/NDF : 21803.8/20

Left Out: 21.978+/-0.004 χ^2/NDF :19430.2/24

Right Out: 21.975+/-0.005 χ^2/NDF : 22264.8/24

Left In: 21.872+/-0.004 χ^2/NDF :20524.9/22

Left: 21.926+/-0.003 χ^2/NDF : 40377.5/47

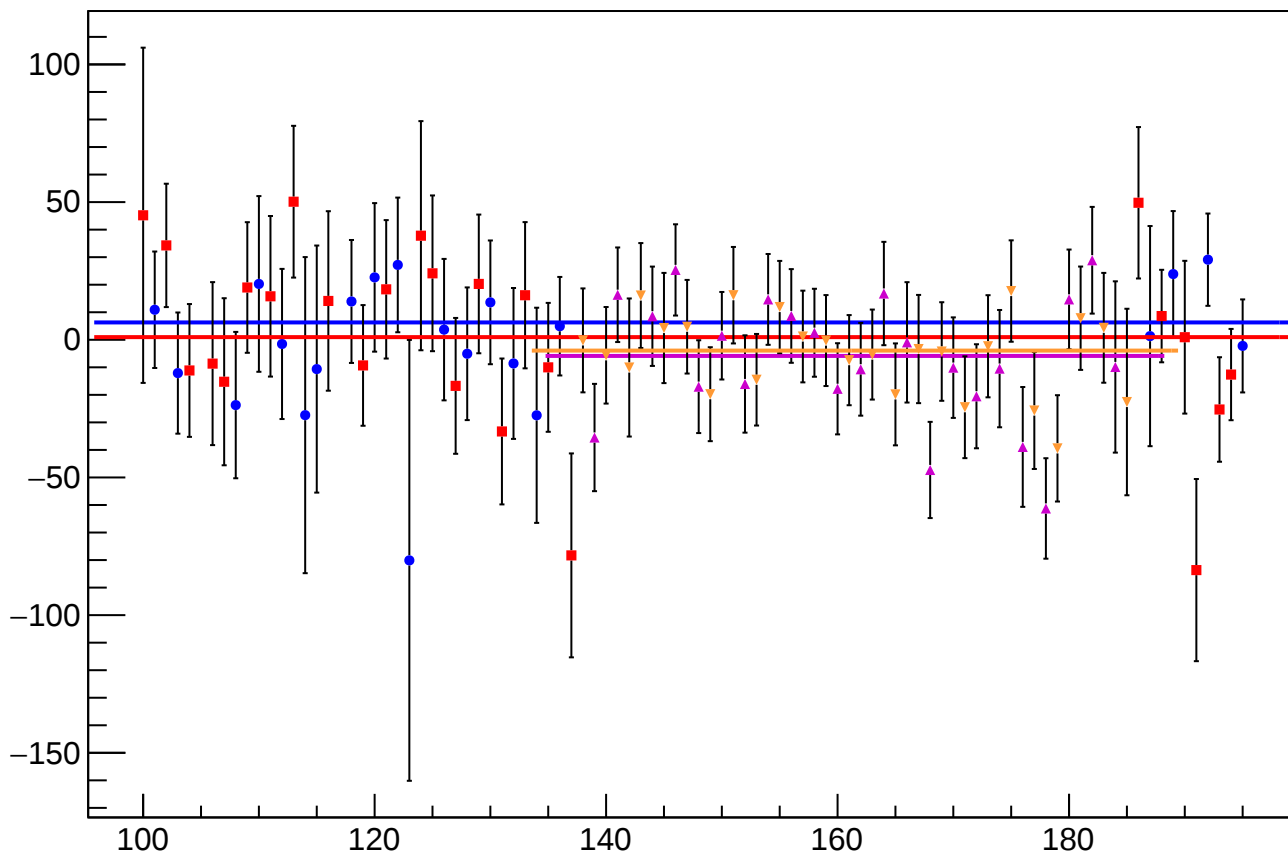
Right: 21.928+/-0.003 χ^2/NDF : 44281.6/45

In: 21.872+/-0.003 χ^2/NDF :42328.8/43

Out: 21.977+/-0.003 χ^2/NDF :41695.3/49

All: 21.927+/-0.002 χ^2/NDF : 84659.3/93

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.299 ± 5.424 $\chi^2/\text{NDF}: 9.3/20$

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 $\chi^2/\text{NDF}: 50.3/47$

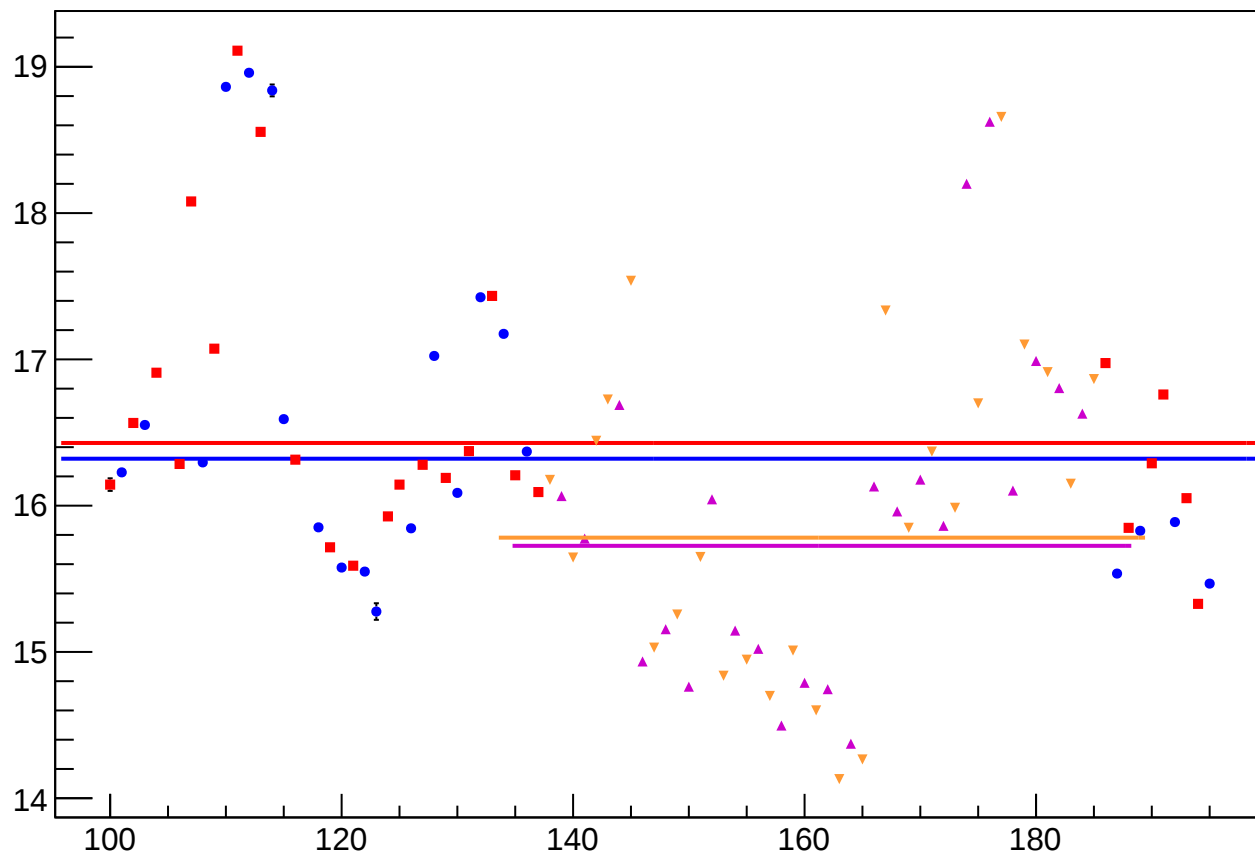
Right: 3.447 ± 3.701 $\chi^2/\text{NDF}: 39.9/45$

In: -1.876 ± 3.105 $\chi^2/\text{NDF}: 48.8/43$

Out: -2.232 ± 2.981 $\chi^2/\text{NDF}: 44.7/49$

All: -2.061 ± 2.150 $\chi^2/\text{NDF}: 93.5/93$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.321 ± 0.004 χ^2/NDF : 55311.0/20

Left Out: 15.781 ± 0.003 χ^2/NDF : 172894.3/24

Right Out: 16.429 ± 0.004 χ^2/NDF : 58549.6/24

Left In: 15.725 ± 0.003 χ^2/NDF : 145830.9/22

Left: 15.754 ± 0.002 χ^2/NDF : 318948.8/47

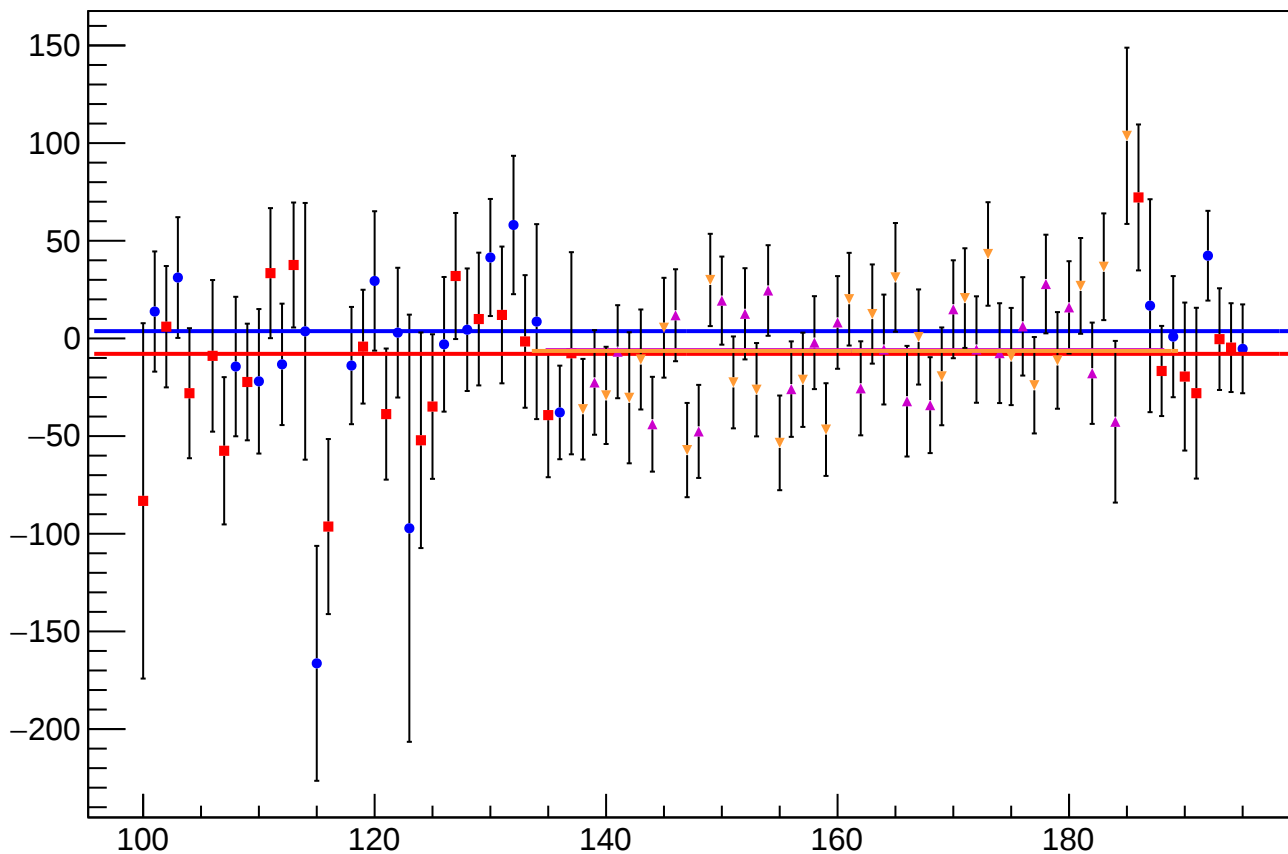
Right: 16.378 ± 0.003 χ^2/NDF : 114281.0/45

In: 15.921 ± 0.002 χ^2/NDF : 217351.3/43

Out: 16.006 ± 0.002 χ^2/NDF : 252804.2/49

All: 15.965 ± 0.002 χ^2/NDF : 470938.6/93

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.734+/-7.224 χ^2/NDF : 21.7/20

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

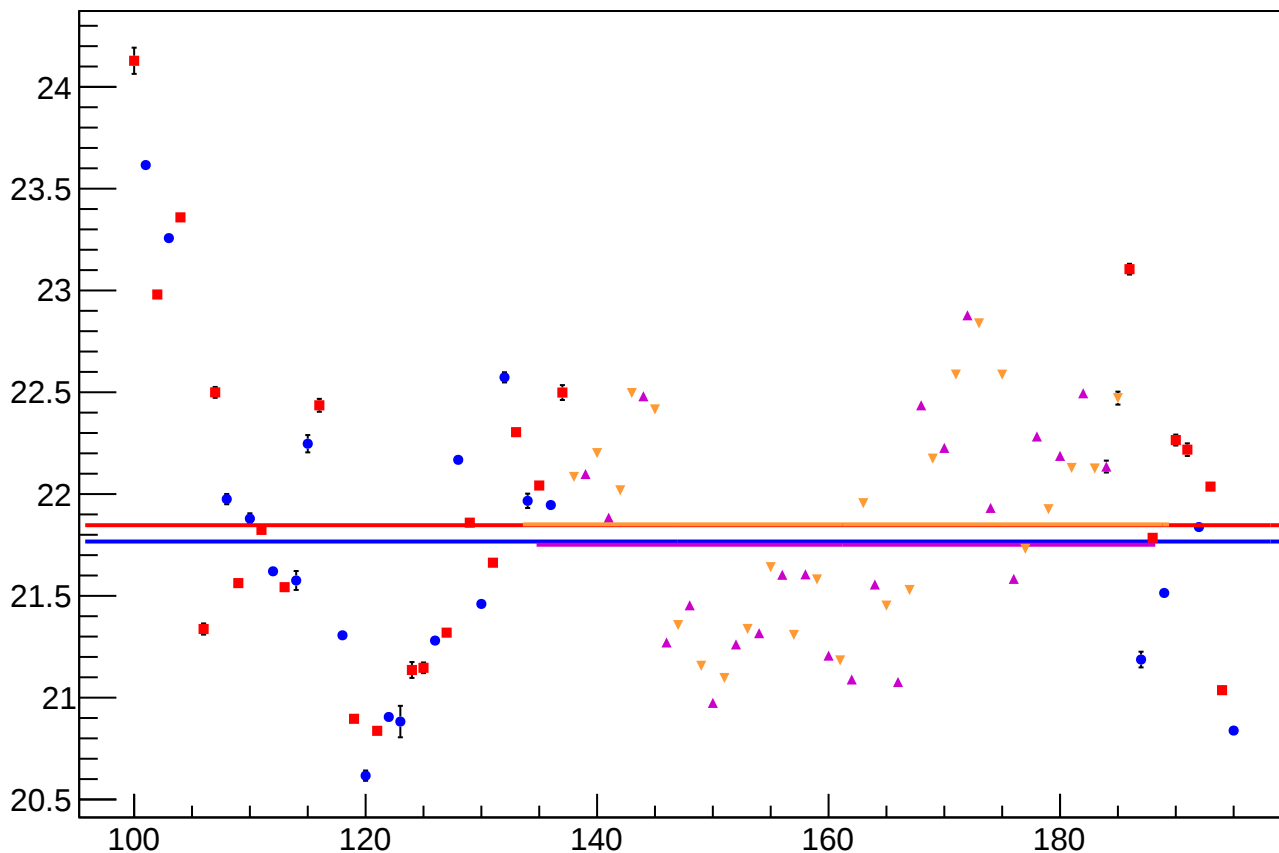
Right: -2.501+/-4.920 χ^2/NDF : 44.1/45

In: -2.644+/-4.232 χ^2/NDF : 41.4/43

Out: -6.948+/-4.058 χ^2/NDF : 58.4/49

All: -4.887+/-2.929 χ^2/NDF : 100.4/93

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.767 $\pm$ 0.005 χ^2 /NDF: 21996.2/20

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.847 $\pm$ 0.005 χ^2 /NDF: 21346.8/24

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

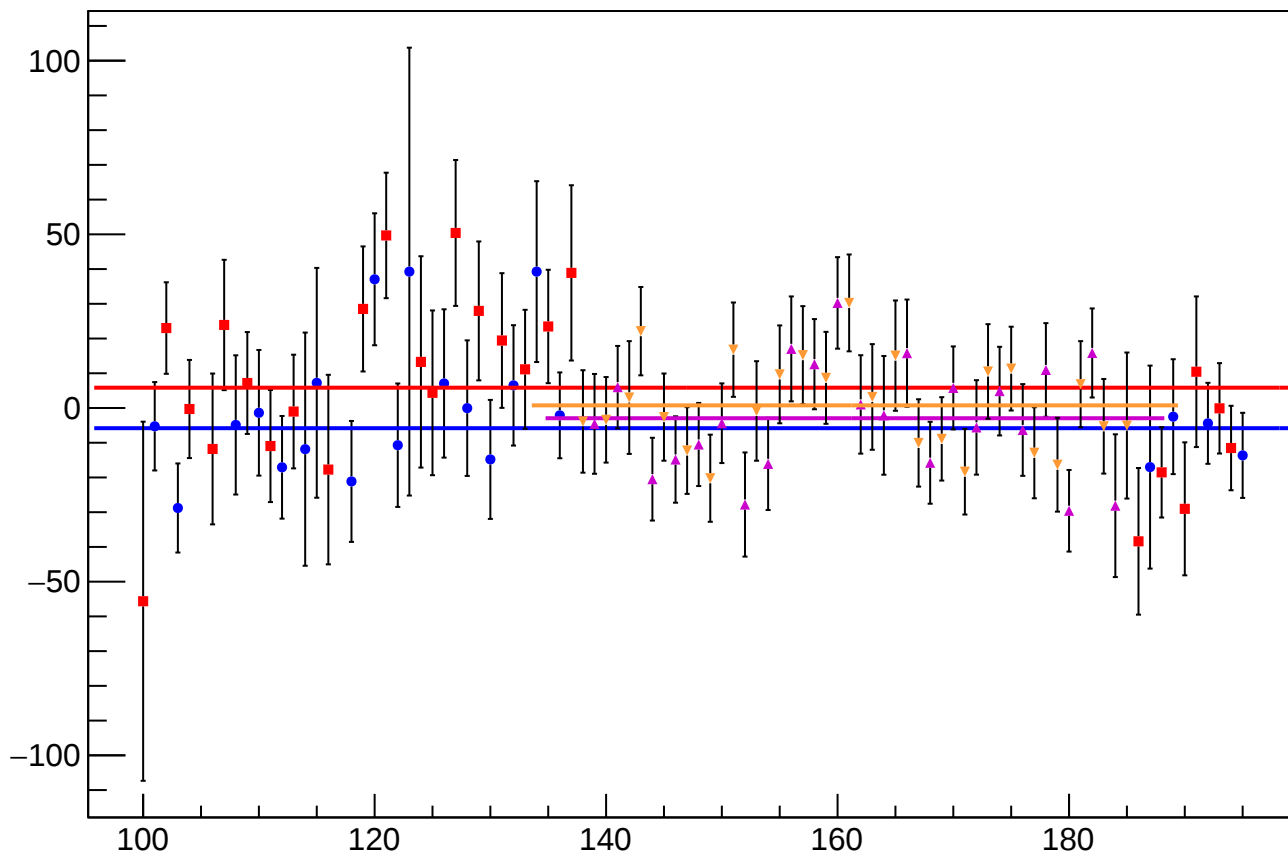
Right: 21.810 $\pm$ 0.003 χ^2 /NDF: 43474.8/45

In: 21.757 $\pm$ 0.003 χ^2 /NDF:42518.7/43

Out: 21.850 $\pm$ 0.003 χ^2 /NDF:40979.1/49

All: 21.805 $\pm$ 0.002 χ^2 /NDF: 84001.3/93

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.814 ± 3.724 $\chi^2/\text{NDF}: 15.4/20$

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 $\chi^2/\text{NDF}: 55.7/47$

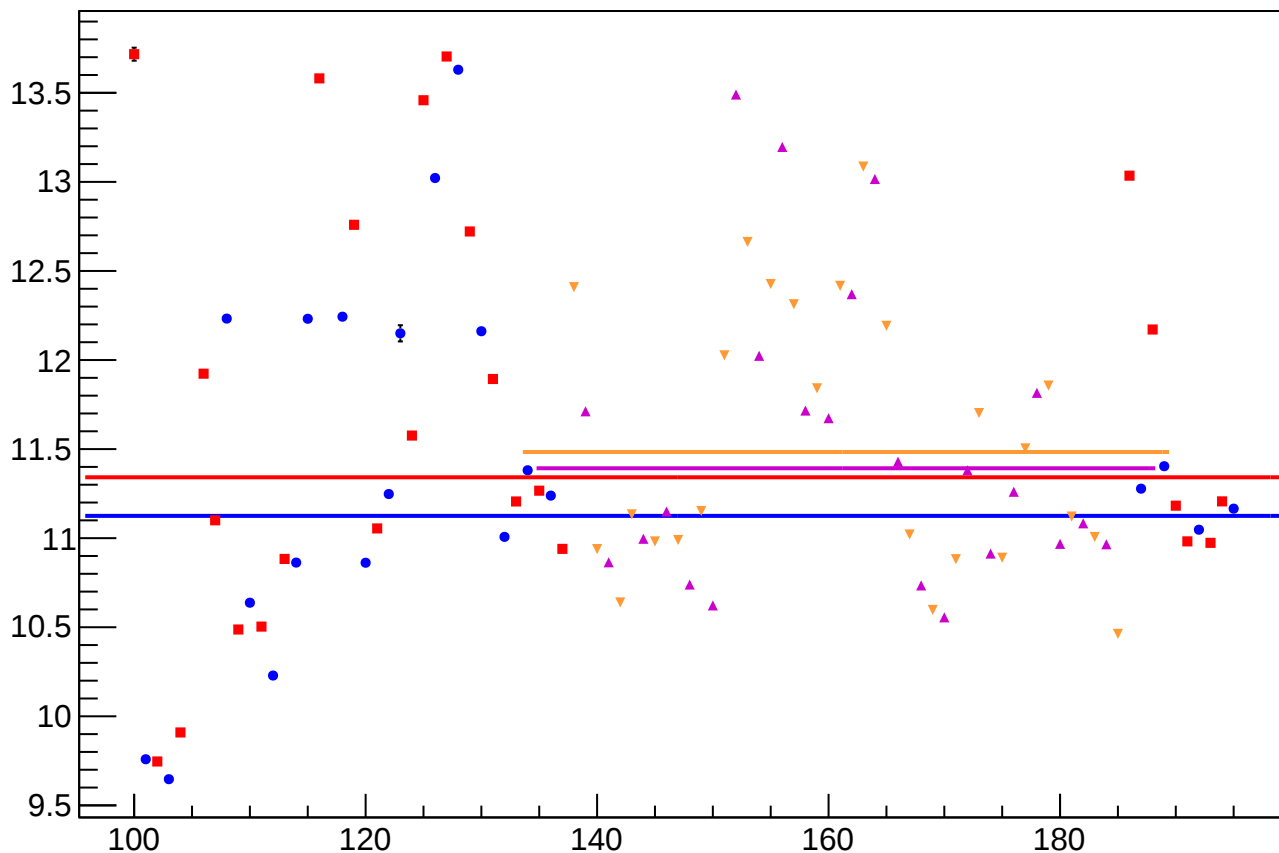
Right: 0.340 ± 2.560 $\chi^2/\text{NDF}: 57.7/45$

In: -3.960 ± 2.216 $\chi^2/\text{NDF}: 46.7/43$

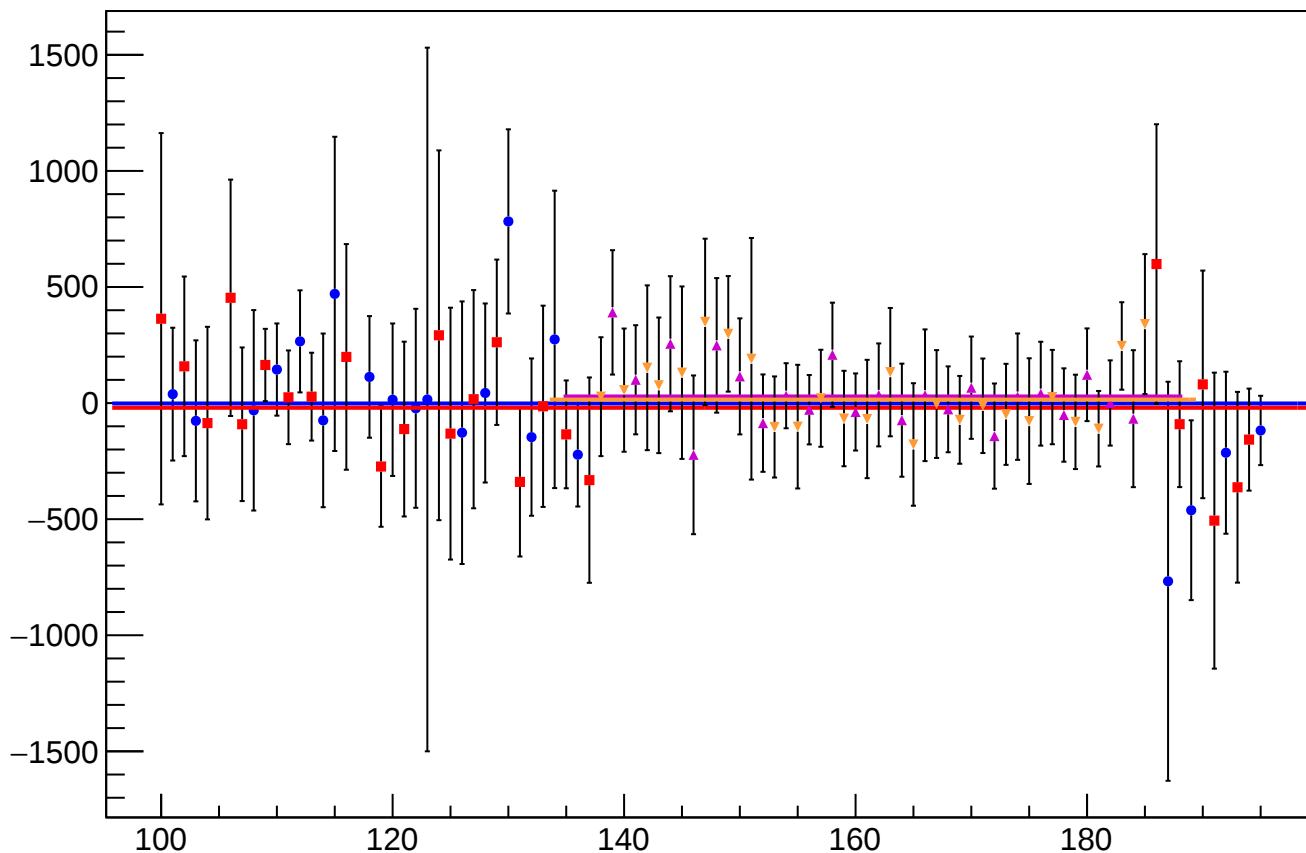
Out: 2.640 ± 2.142 $\chi^2/\text{NDF}: 62.3/49$

All: -0.548 ± 1.540 $\chi^2/\text{NDF}: 113.6/93$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.678 ± 67.496 $\chi^2/\text{NDF}: 11.3/20$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -20.256 ± 62.922 $\chi^2/\text{NDF}: 9.5/24$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

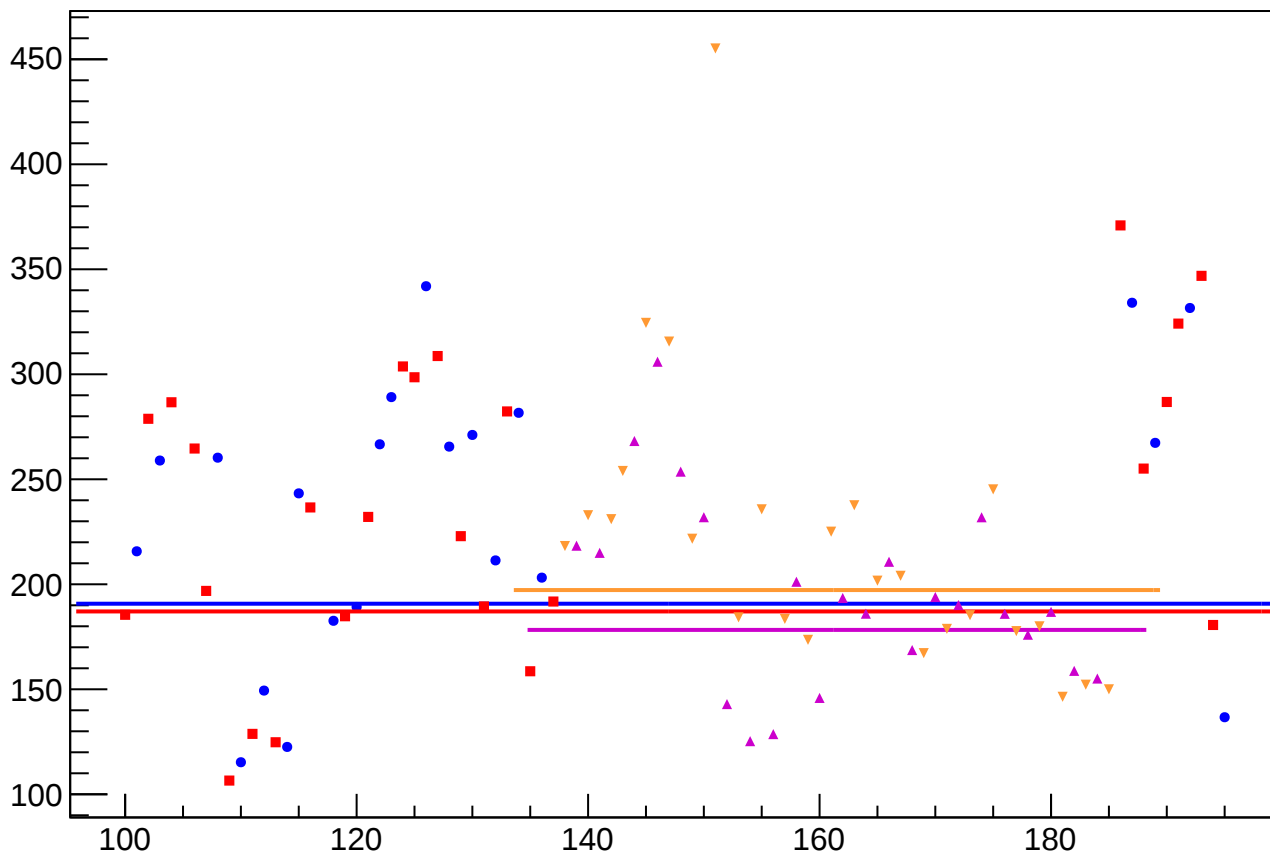
Right: -11.618 ± 46.025 $\chi^2/\text{NDF}: 20.8/45$

In: 19.272 ± 37.324 $\chi^2/\text{NDF}: 17.8/43$

Out: 2.214 ± 38.014 $\chi^2/\text{NDF}: 17.7/49$

All: 10.899 ± 26.633 $\chi^2/\text{NDF}: 35.6/93$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.748 $\pm$ 0.048 χ^2 /NDF: 1731993.1/20

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

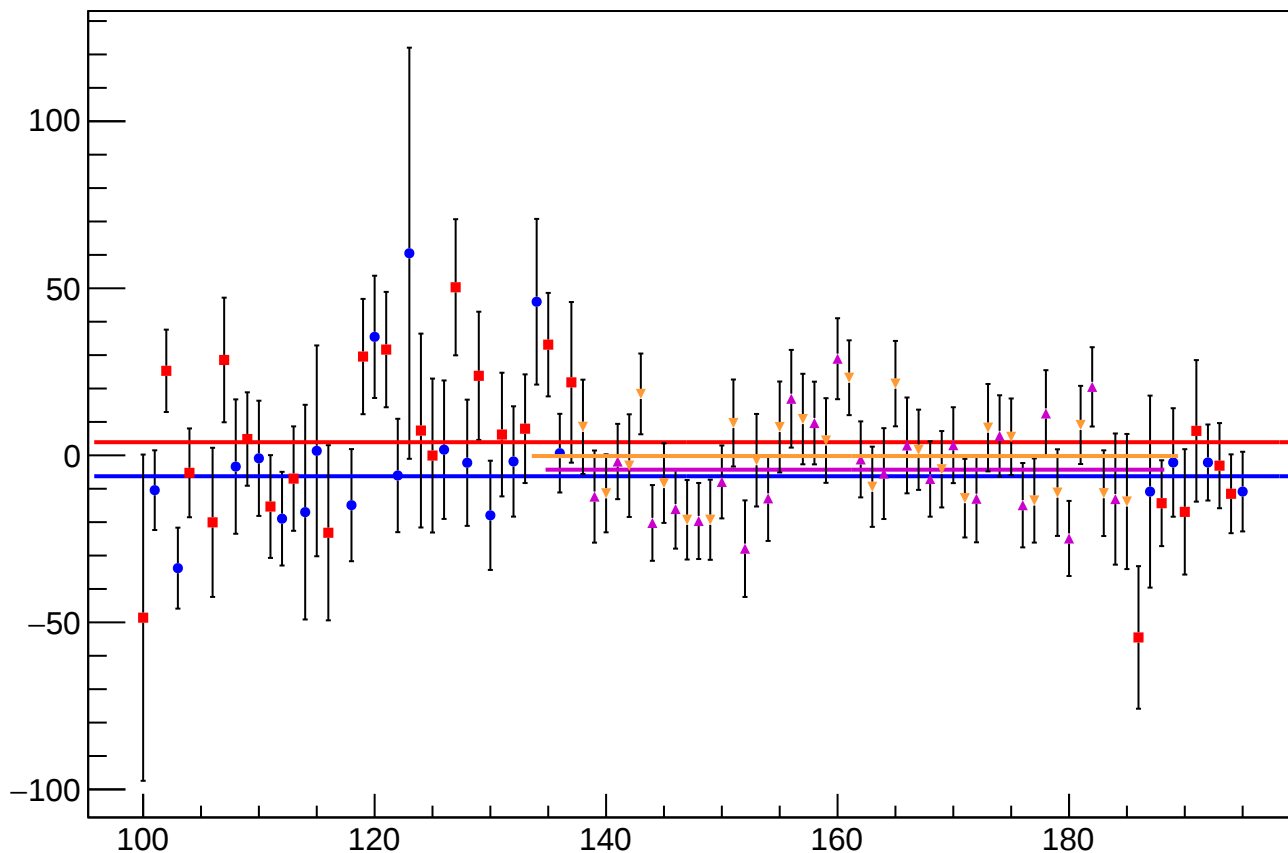
Right: 188.779 $\pm$ 0.033 χ^2 /NDF: 4179875.8/45

In: 182.091 $\pm$ 0.026 χ^2 /NDF: 3408309.1/43

Out: 193.533 $\pm$ 0.027 χ^2 /NDF: 4264764.4/49

All: 187.707 $\pm$ 0.019 χ^2 /NDF: 7765333.0/93

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.257 ± 3.577 $\chi^2/\text{NDF}: 19.0/20$

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 $\chi^2/\text{NDF}: 57.4/47$

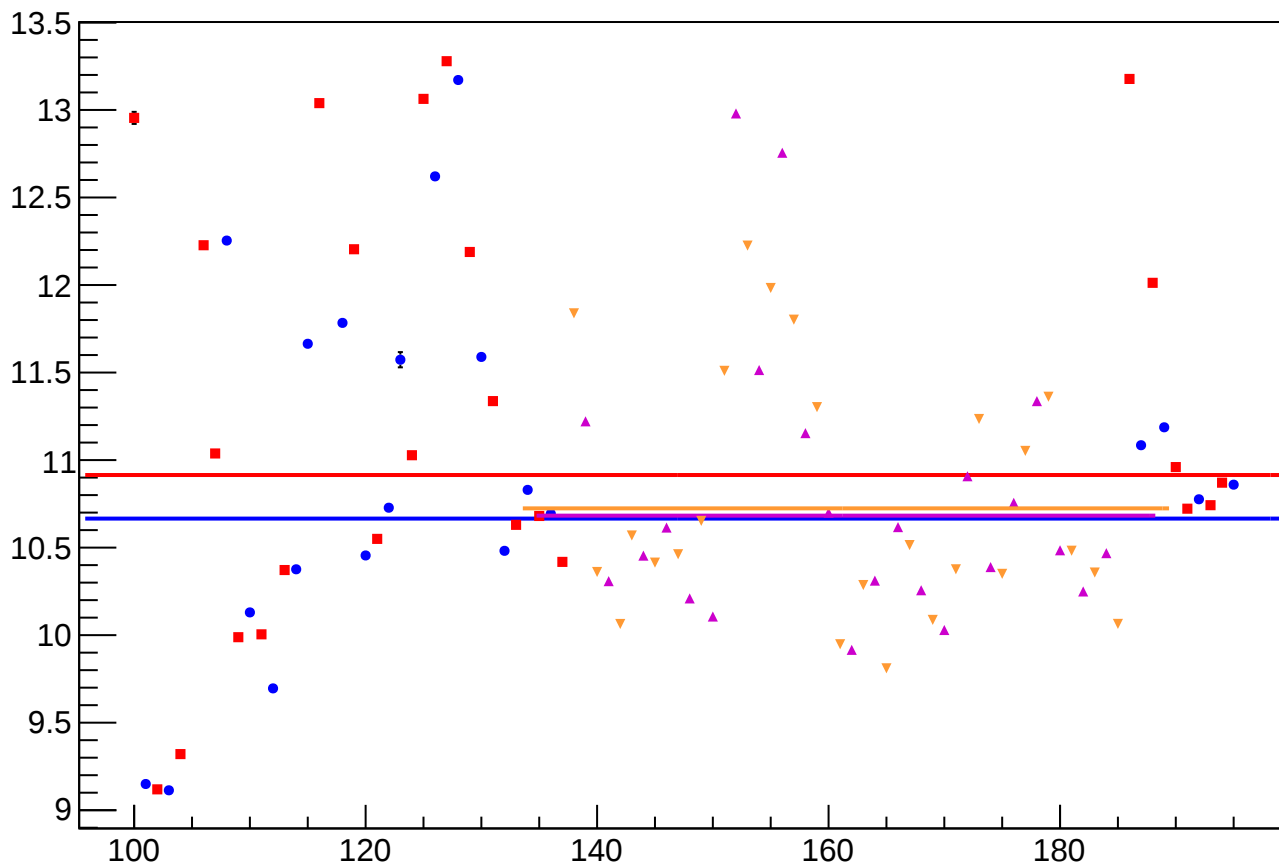
Right: -0.902 ± 2.464 $\chi^2/\text{NDF}: 61.9/45$

In: -4.971 ± 2.097 $\chi^2/\text{NDF}: 50.7/43$

Out: 1.261 ± 2.026 $\chi^2/\text{NDF}: 64.2/49$

All: -1.747 ± 1.457 $\chi^2/\text{NDF}: 119.5/93$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.666 $\pm$ 0.003 χ^2 /NDF: 163774.3/20

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.915 $\pm$ 0.002 χ^2 /NDF: 218857.6/24

Left In: 10.683 $\pm$ 0.002 χ^2 /NDF:147835.6/22

Left: 10.704 $\pm$ 0.001 χ^2 /NDF: 280658.8/47

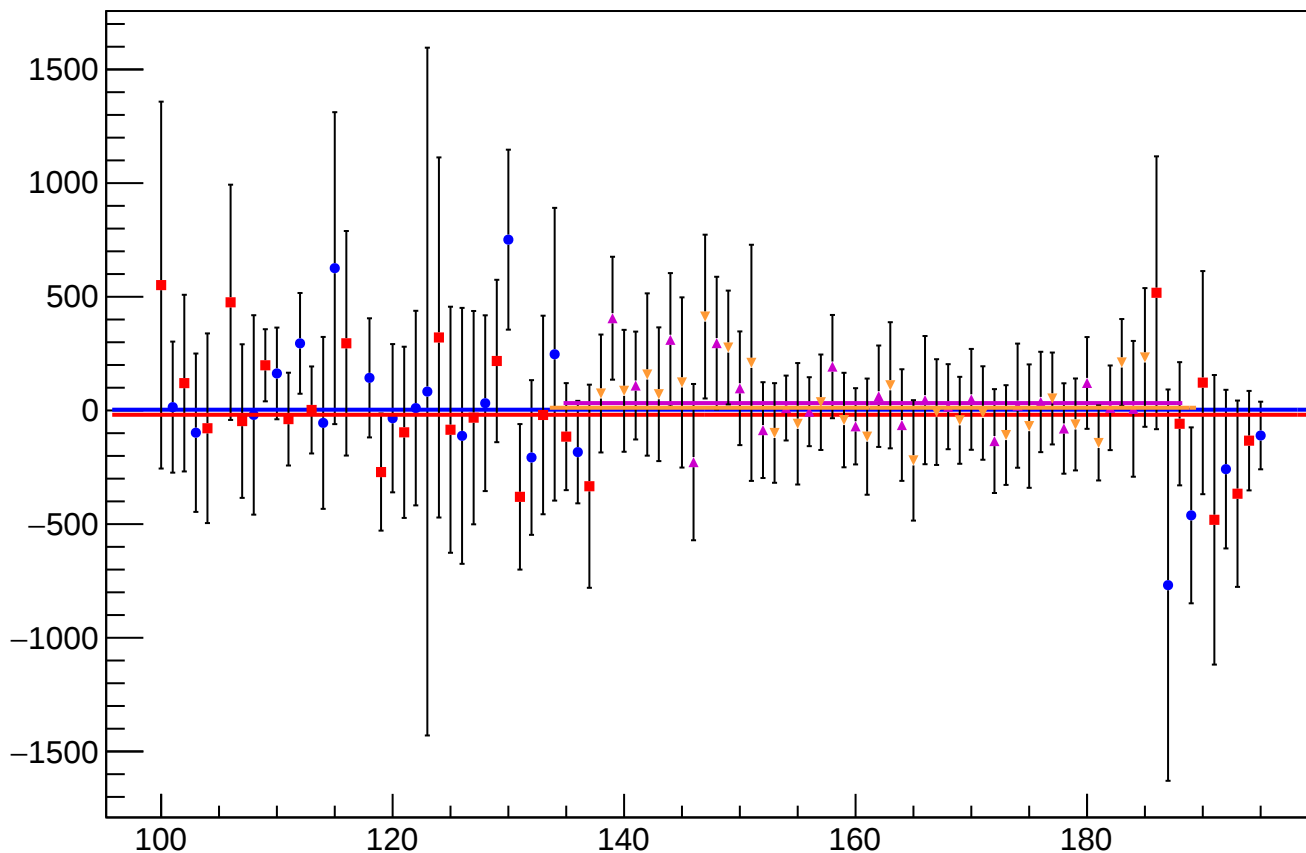
Right: 10.797 $\pm$ 0.002 χ^2 /NDF: 387721.9/45

In: 10.677 $\pm$ 0.001 χ^2 /NDF:311638.9/43

Out: 10.792 $\pm$ 0.001 χ^2 /NDF:355468.7/49

All: 10.736 $\pm$ 0.001 χ^2 /NDF: 670221.9/93

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 3.326 ± 67.756 $\chi^2/\text{NDF}: 11.8/20$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -18.974 ± 63.376 $\chi^2/\text{NDF}: 9.9/24$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

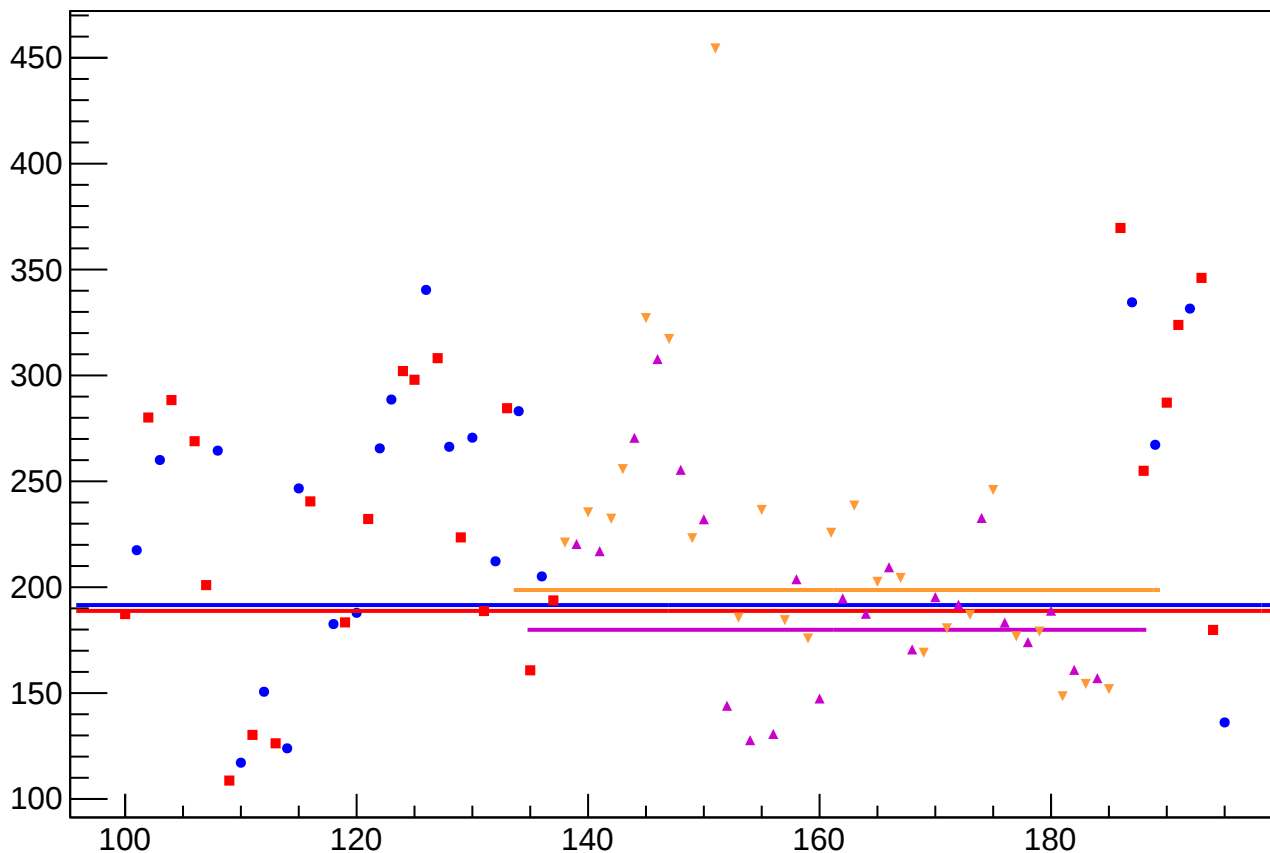
Right: -8.568 ± 46.285 $\chi^2/\text{NDF}: 21.7/45$

In: 23.467 ± 37.575 $\chi^2/\text{NDF}: 18.8/43$

Out: 0.633 ± 38.275 $\chi^2/\text{NDF}: 17.7/49$

All: 12.261 ± 26.814 $\chi^2/\text{NDF}: 36.7/93$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.564 $\pm$ 0.048 χ^2 /NDF: 1717873.6/20

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

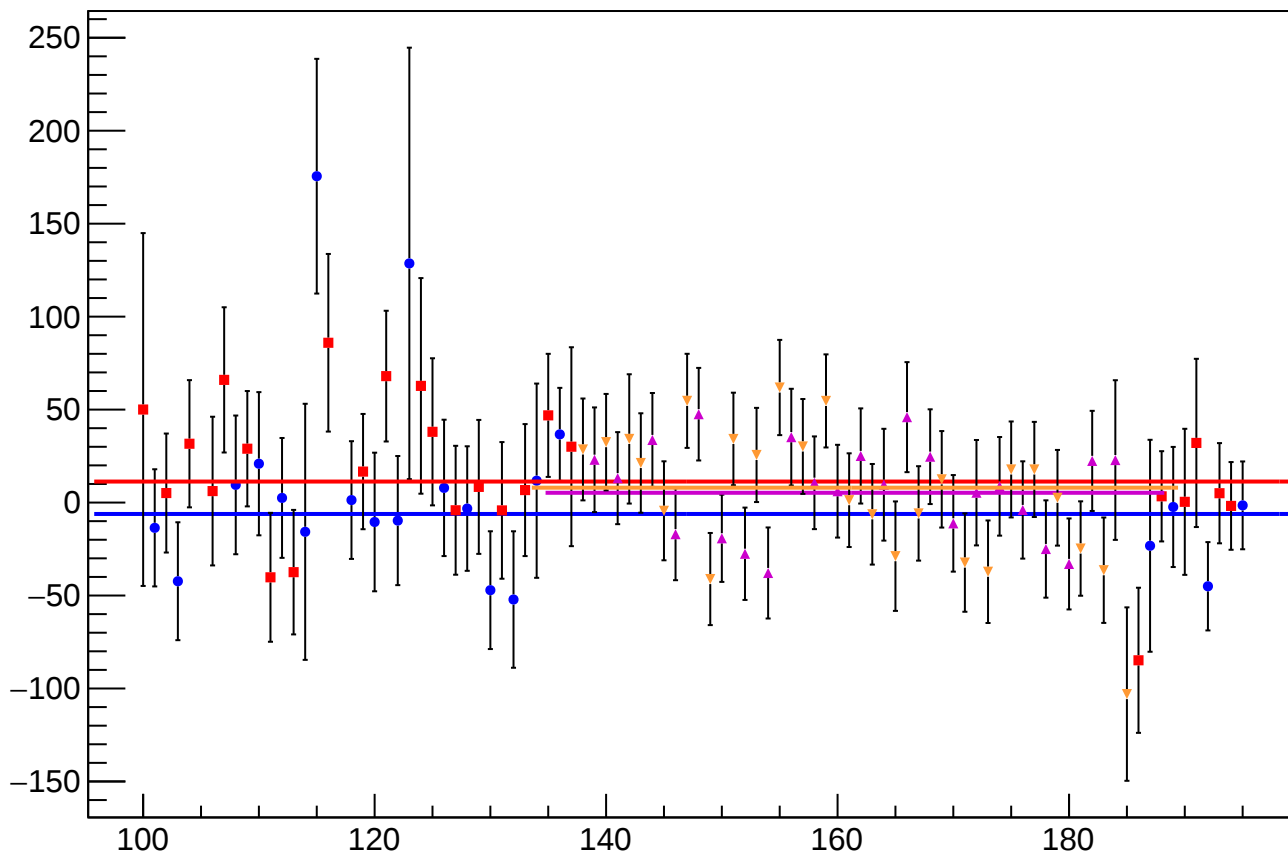
Right: 190.097 $\pm$ 0.033 χ^2 /NDF: 4096222.5/45

In: 183.478 $\pm$ 0.027 χ^2 /NDF:3339645.9/43

Out: 195.091 $\pm$ 0.027 χ^2 /NDF:4166788.0/49

All: 189.177 $\pm$ 0.019 χ^2 /NDF: 7600194.4/93

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.134 ± 7.536 $\chi^2/\text{NDF}: 21.1/20$

Left Out: 8.004 ± 5.334 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 11.303 ± 7.023 $\chi^2/\text{NDF}: 22.0/24$

Left In: 5.261 ± 5.465 $\chi^2/\text{NDF}: 20.8/22$

Left: 6.665 ± 3.817 $\chi^2/\text{NDF}: 58.3/47$

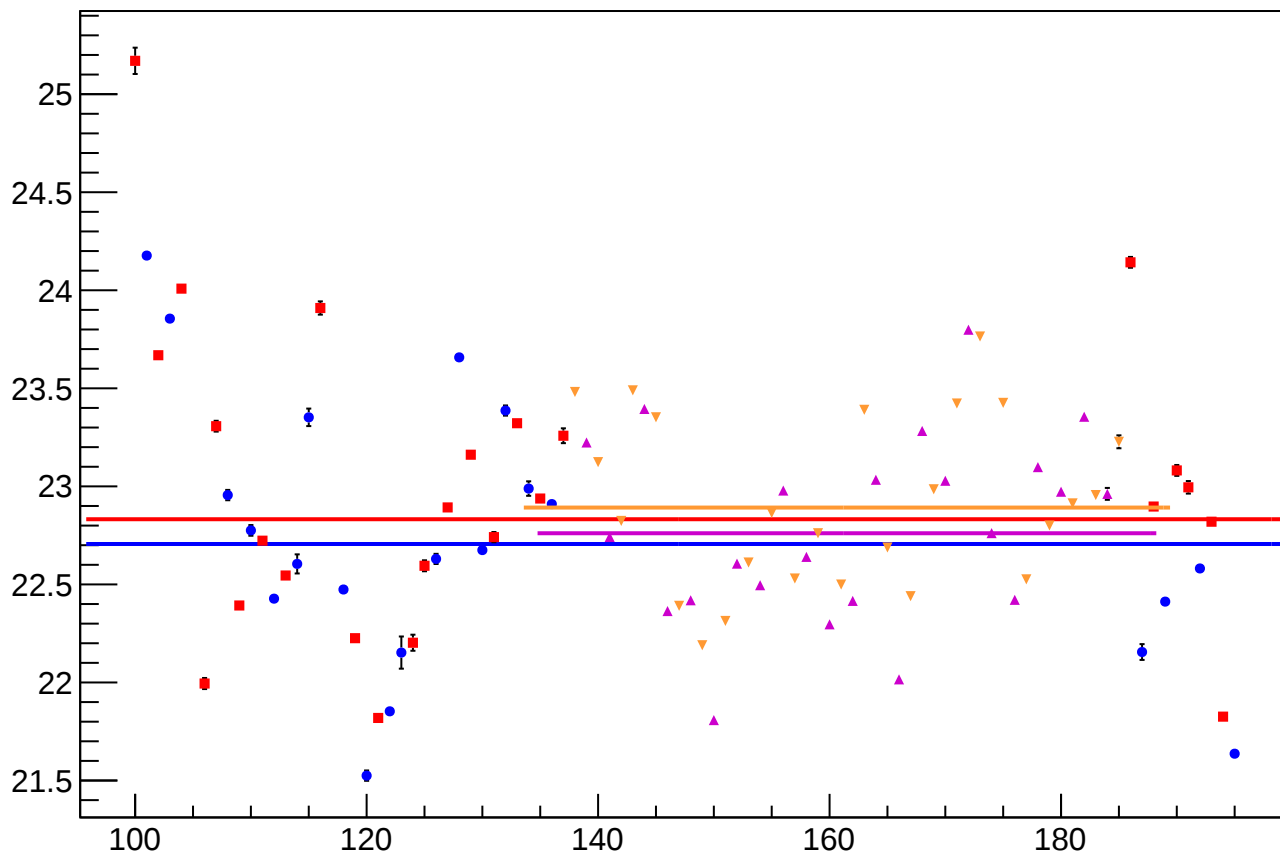
Right: 3.198 ± 5.138 $\chi^2/\text{NDF}: 46.0/45$

In: 1.333 ± 4.424 $\chi^2/\text{NDF}: 43.4/43$

Out: 9.211 ± 4.248 $\chi^2/\text{NDF}: 59.6/49$

All: 5.432 ± 3.064 $\chi^2/\text{NDF}: 104.6/93$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.706 ± 0.005 $\chi^2/\text{NDF}: 17826.7/20$

Left Out: 22.892 ± 0.004 $\chi^2/\text{NDF}: 12995.5/24$

Right Out: 22.832 ± 0.005 $\chi^2/\text{NDF}: 17167.7/24$

Left In: 22.761 ± 0.004 $\chi^2/\text{NDF}: 14550.0/22$

Left: 22.828 ± 0.003 $\chi^2/\text{NDF}: 28133.9/47$

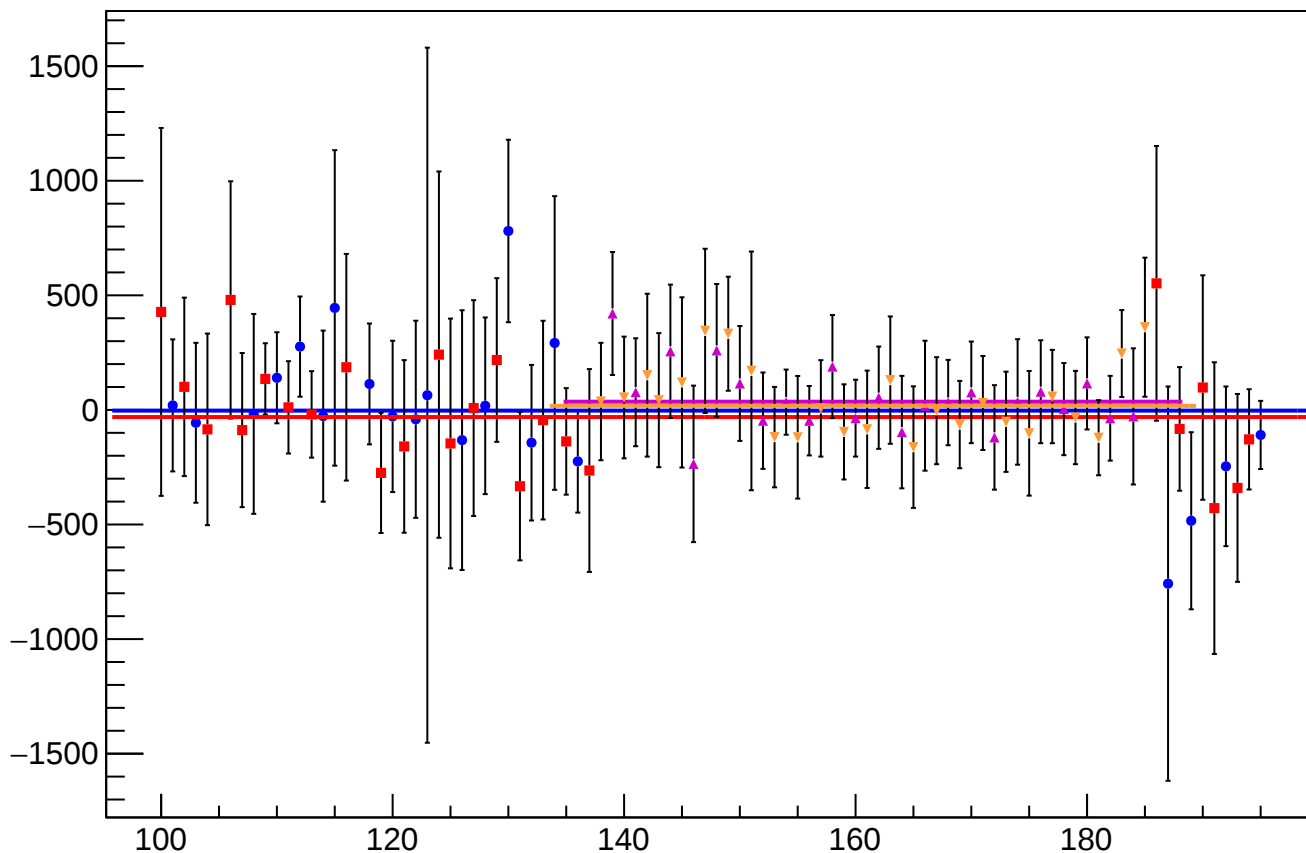
Right: 22.774 ± 0.004 $\chi^2/\text{NDF}: 35295.2/45$

In: 22.742 ± 0.003 $\chi^2/\text{NDF}: 32446.1/43$

Out: 22.870 ± 0.003 $\chi^2/\text{NDF}: 30254.3/49$

All: 22.809 ± 0.002 $\chi^2/\text{NDF}: 63573.1/93$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -3.048 ± 67.540 $\chi^2/\text{NDF}: 11.4/20$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -31.117 ± 62.999 $\chi^2/\text{NDF}: 8.0/24$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

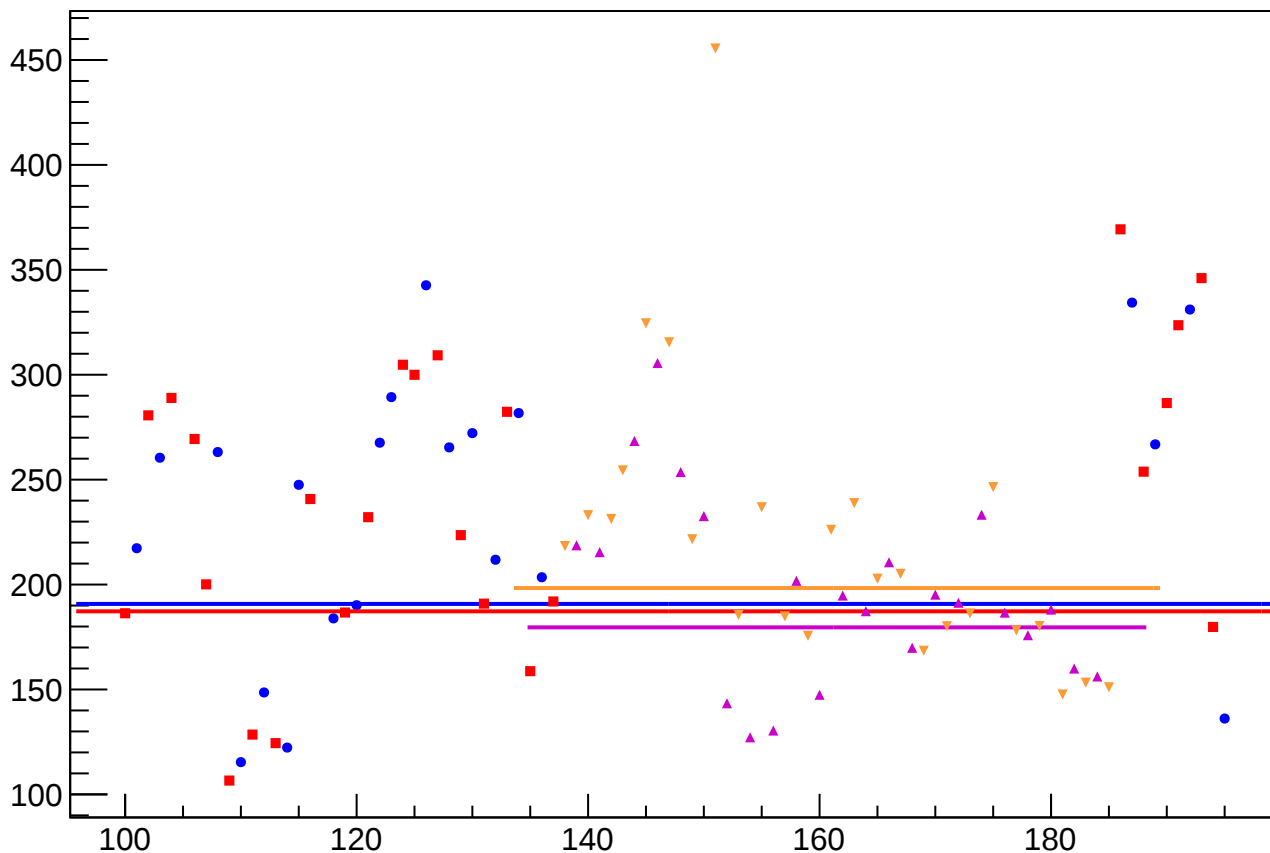
Right: -18.058 ± 46.069 $\chi^2/\text{NDF}: 19.6/45$

In: 23.879 ± 37.499 $\chi^2/\text{NDF}: 18.0/43$

Out: -0.154 ± 38.151 $\chi^2/\text{NDF}: 17.0/49$

All: 12.069 ± 26.743 $\chi^2/\text{NDF}: 35.1/93$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.768 $\pm$ 0.048 χ^2 /NDF: 1753019.5/20

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

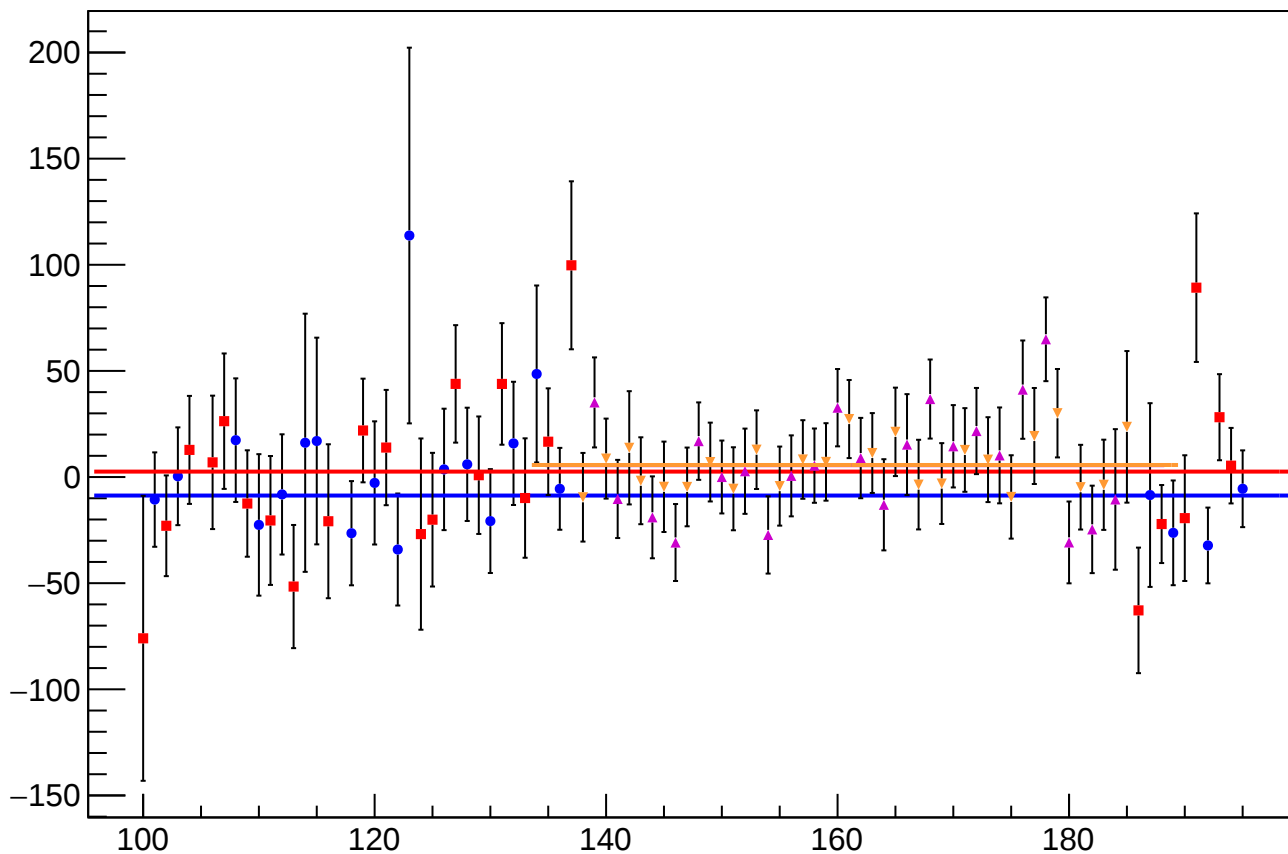
Right: 188.880 $\pm$ 0.033 χ^2 /NDF: 4217000.1/45

In: 183.046 $\pm$ 0.027 χ^2 /NDF:3366553.4/43

Out: 194.271 $\pm$ 0.027 χ^2 /NDF:4257867.3/49

All: 188.562 $\pm$ 0.019 χ^2 /NDF: 7712481.1/93

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -8.717 ± 5.826 $\chi^2/\text{NDF}: 10.6/20$

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 $\chi^2/\text{NDF}: 44.1/47$

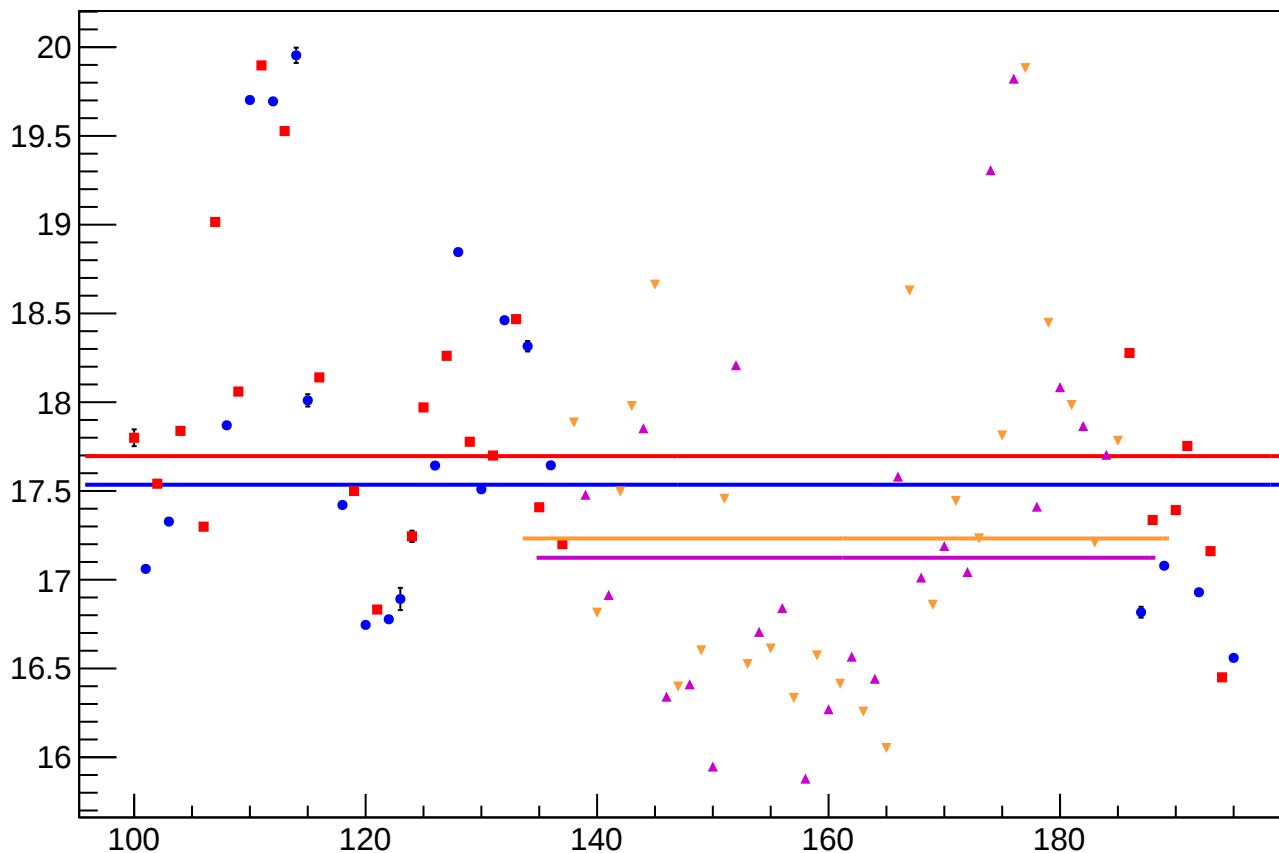
Right: -2.701 ± 3.980 $\chi^2/\text{NDF}: 48.3/45$

In: 0.822 ± 3.365 $\chi^2/\text{NDF}: 51.0/43$

Out: 4.581 ± 3.237 $\chi^2/\text{NDF}: 43.7/49$

All: 2.774 ± 2.333 $\chi^2/\text{NDF}: 95.3/93$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.535 $\pm$ 0.004 χ^2 /NDF: 45076.7/20

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

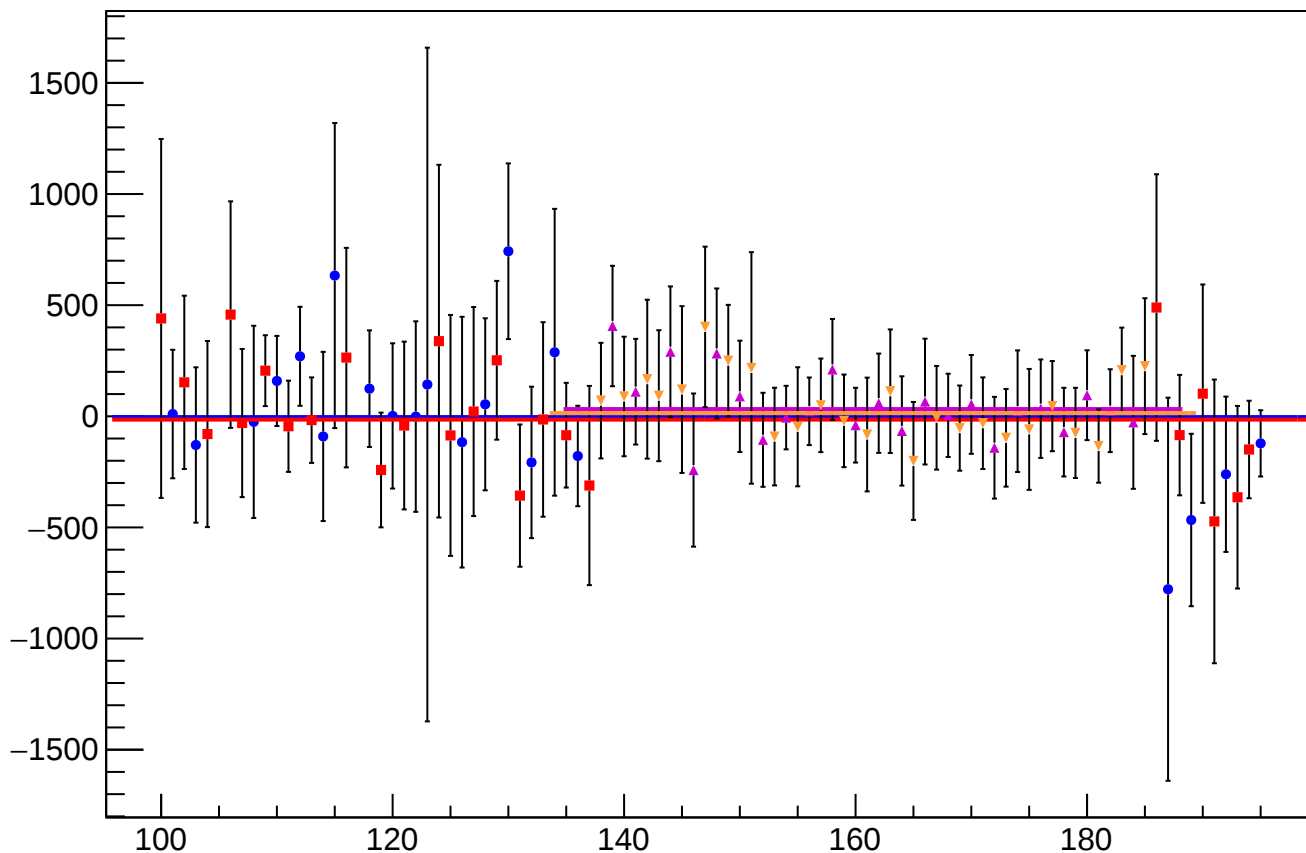
Right: 17.621 $\pm$ 0.003 χ^2 /NDF: 87383.3/45

In: 17.261 $\pm$ 0.002 χ^2 /NDF:152469.4/43

Out: 17.396 $\pm$ 0.002 χ^2 /NDF:149565.6/49

All: 17.331 $\pm$ 0.002 χ^2 /NDF: 303710.2/93

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -3.589+/-67.922 χ^2/NDF : 11.6/20

Left Out: 14.362+/-48.130 χ^2/NDF : 6.9/24

Right Out: -14.939+/-63.505 χ^2/NDF : 9.3/24

Left In: 32.571+/-45.248 χ^2/NDF : 6.7/22

Left: 24.028+/-32.967 χ^2/NDF : 13.7/47

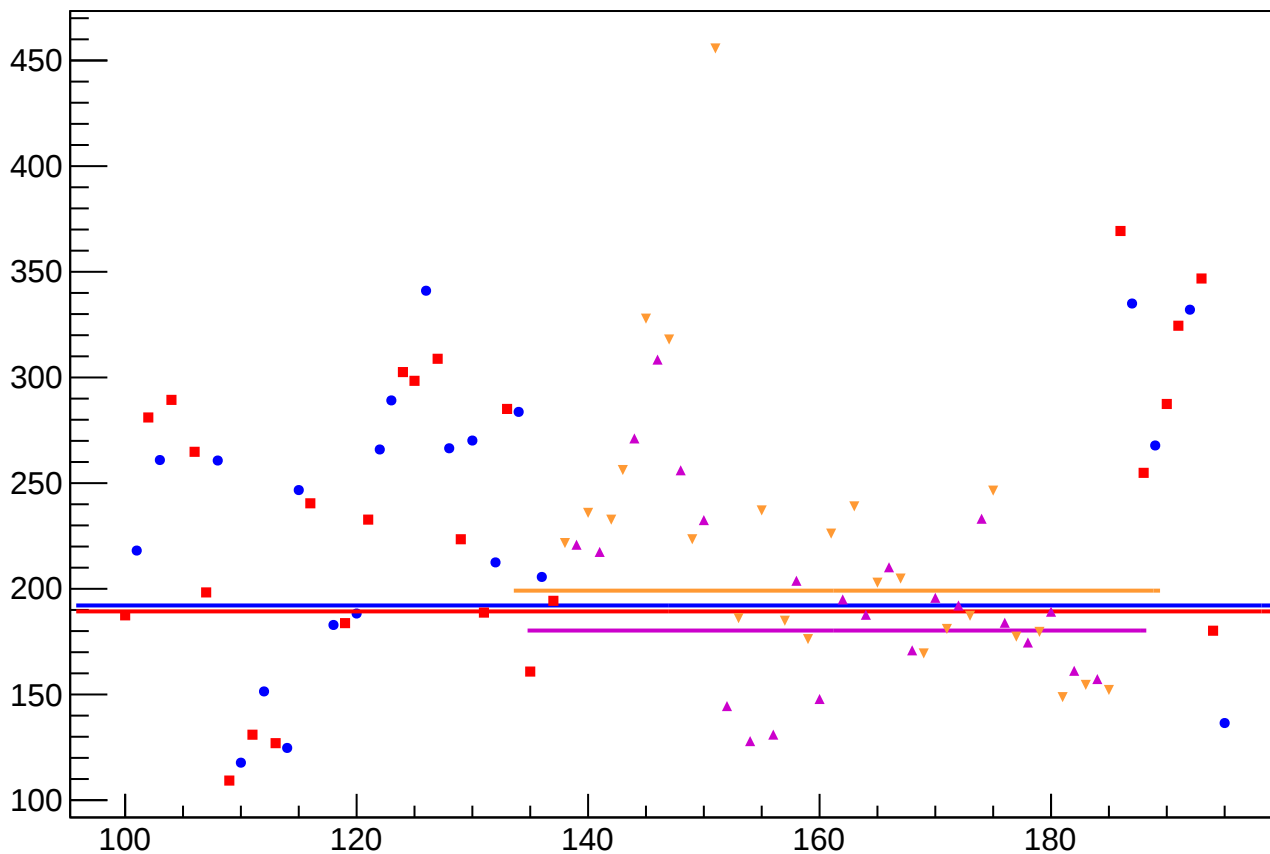
Right: -9.645+/-46.388 χ^2/NDF : 21.0/45

In: 21.456+/-37.657 χ^2/NDF : 18.5/43

Out: 3.672+/-38.358 χ^2/NDF : 16.4/49

All: 12.728+/-26.872 χ^2/NDF : 35.0/93

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.123 $\pm$ 0.048 χ^2 /NDF: 1702020.1/20

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

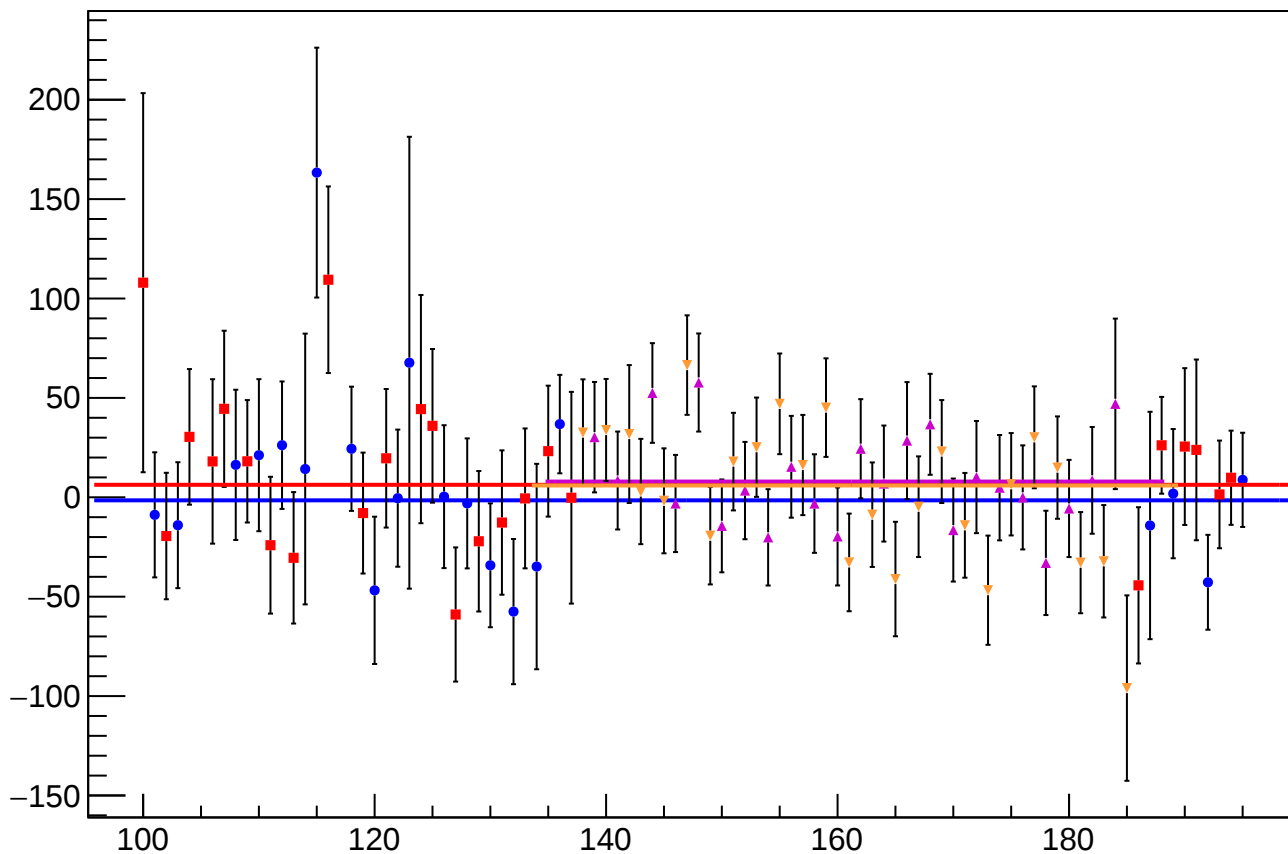
Right: 190.622 $\pm$ 0.033 χ^2 /NDF: 4057950.5/45

In: 183.904 $\pm$ 0.027 χ^2 /NDF:3324856.9/43

Out: 195.551 $\pm$ 0.027 χ^2 /NDF:4144809.6/49

All: 189.620 $\pm$ 0.019 χ^2 /NDF: 7563566.2/93

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.530 ± 7.498 $\chi^2/\text{NDF}: 20.5/20$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: 6.282 ± 6.991 $\chi^2/\text{NDF}: 19.4/24$

Left In: 7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

Left: 6.901 ± 3.784 $\chi^2/\text{NDF}: 54.9/47$

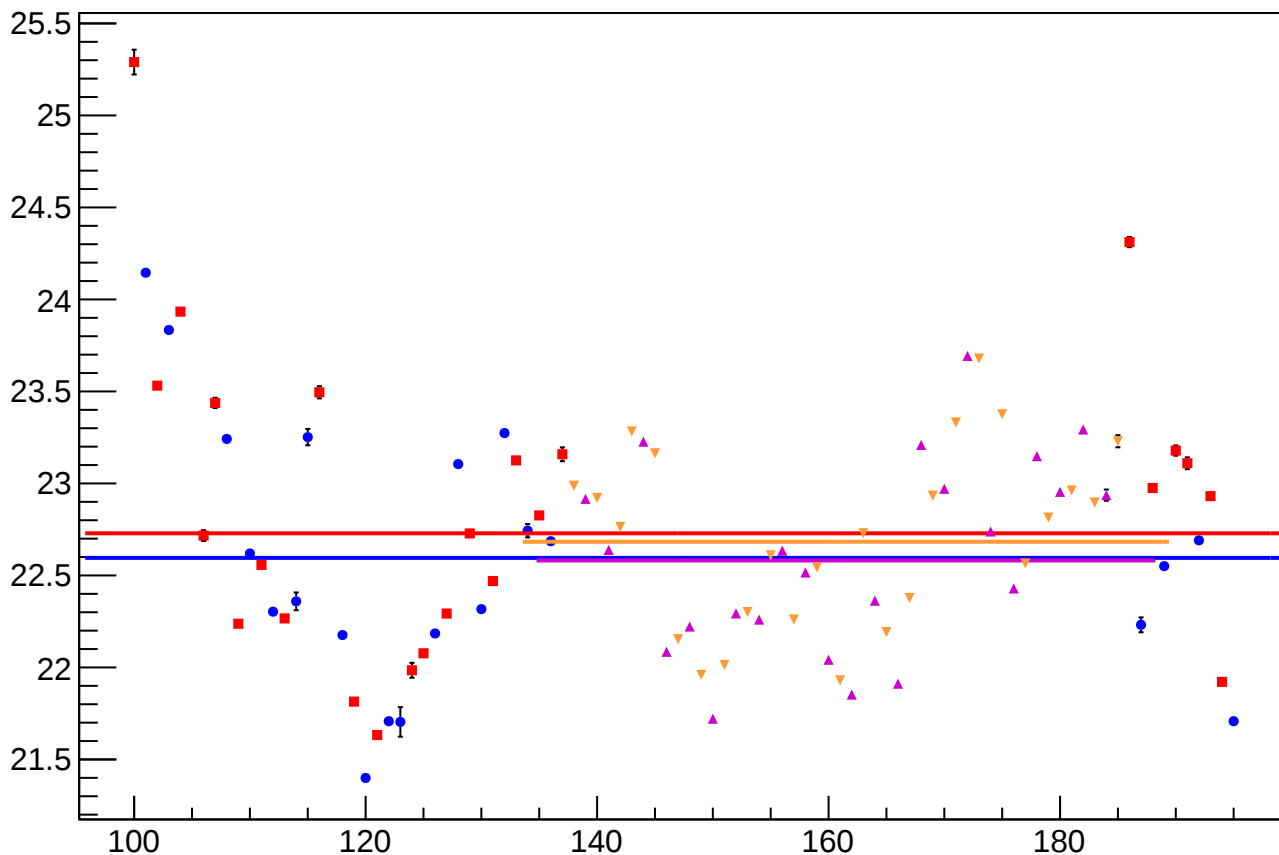
Right: 2.649 ± 5.113 $\chi^2/\text{NDF}: 40.5/45$

In: 4.672 ± 4.393 $\chi^2/\text{NDF}: 40.3/43$

Out: 6.063 ± 4.216 $\chi^2/\text{NDF}: 55.6/49$

All: 5.396 ± 3.042 $\chi^2/\text{NDF}: 95.9/93$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.595 $\pm$ 0.005 χ^2 /NDF: 17358.7/20

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

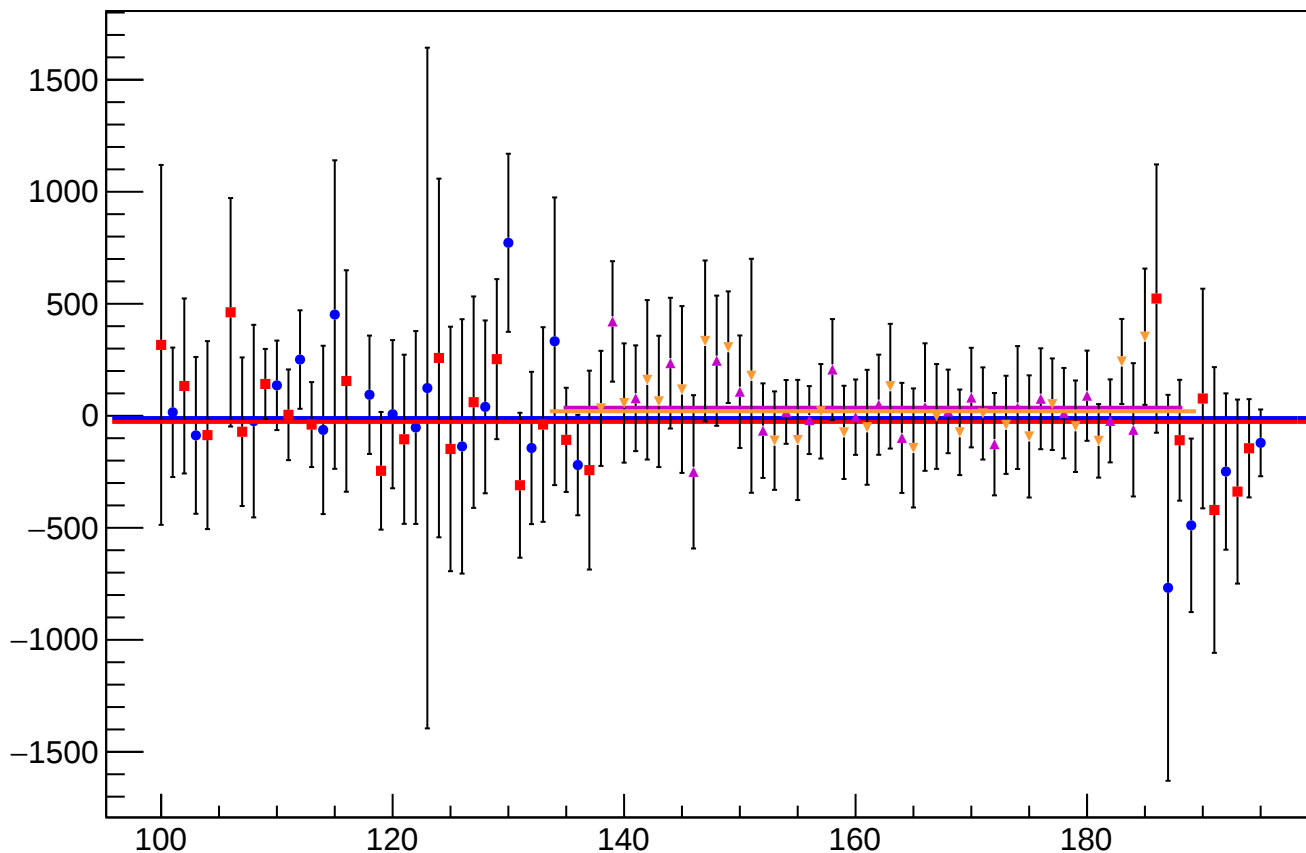
Right: 22.667 $\pm$ 0.004 χ^2 /NDF: 36859.6/45

In: 22.586 $\pm$ 0.003 χ^2 /NDF:35267.8/43

Out: 22.700 $\pm$ 0.003 χ^2 /NDF:35536.2/49

All: 22.645 $\pm$ 0.002 χ^2 /NDF: 71501.6/93

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -10.089 ± 67.707 $\chi^2/\text{NDF}: 11.2/20$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -27.201 ± 63.131 $\chi^2/\text{NDF}: 7.5/24$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

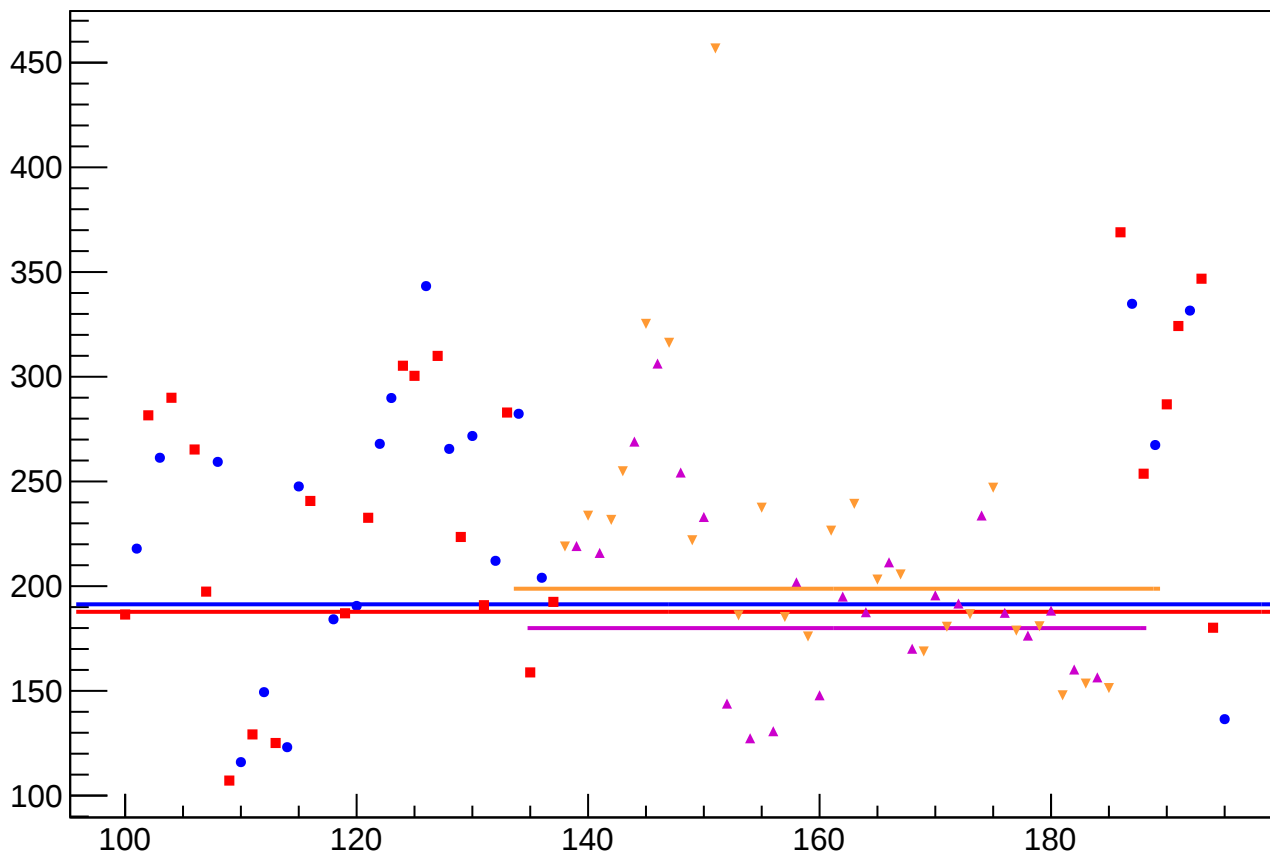
Right: -19.243 ± 46.173 $\chi^2/\text{NDF}: 18.8/45$

In: 21.798 ± 37.581 $\chi^2/\text{NDF}: 17.6/43$

Out: 2.881 ± 38.234 $\chi^2/\text{NDF}: 15.6/49$

All: 12.502 ± 26.802 $\chi^2/\text{NDF}: 33.3/93$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.336+/-0.048 χ^2/NDF : 1736477.1/20

Left Out: 198.784+/-0.034 χ^2/NDF : 1758481.8/24

Right Out: 187.750+/-0.045 χ^2/NDF : 2437400.8/24

Left In: 179.972+/-0.032 χ^2/NDF : 1575888.3/22

Left: 188.800+/-0.023 χ^2/NDF : 3497081.8/47

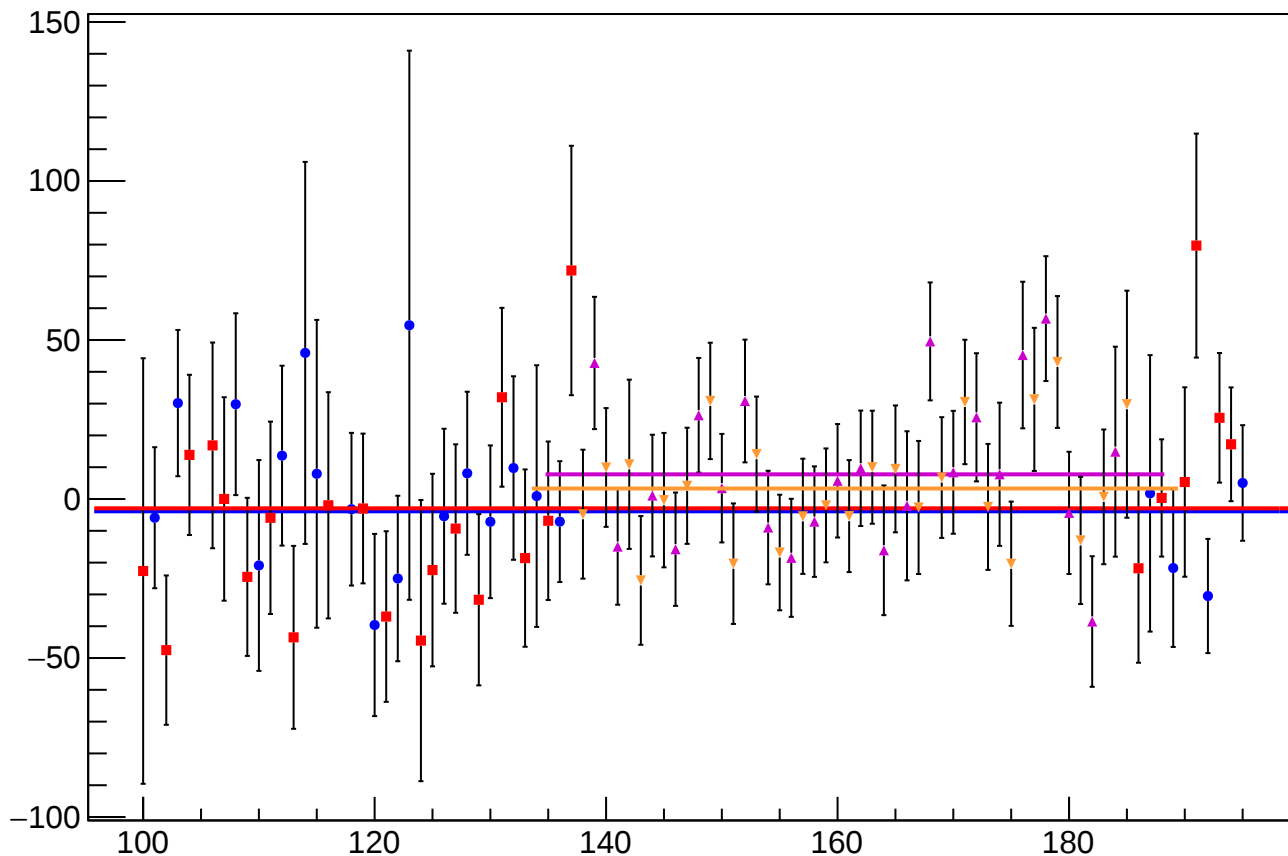
Right: 189.417+/-0.033 χ^2/NDF : 4176879.4/45

In: 183.473+/-0.027 χ^2/NDF : 3351344.7/43

Out: 194.737+/-0.027 χ^2/NDF : 4234573.7/49

All: 189.008+/-0.019 χ^2/NDF : 7674198.4/93

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.869 ± 5.774 χ^2/NDF : 11.1/20

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -2.929 ± 5.406 χ^2/NDF : 26.1/24

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

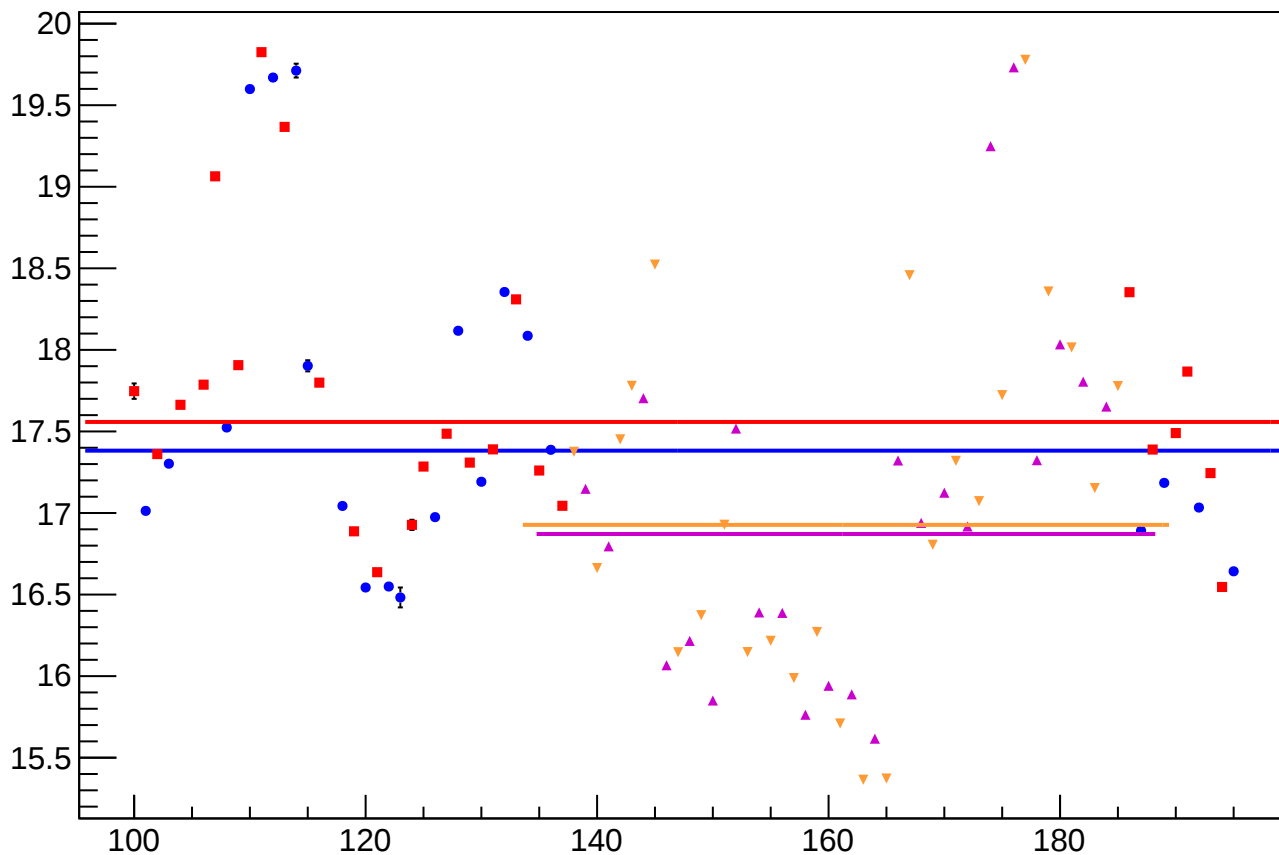
Right: -3.368 ± 3.946 χ^2/NDF : 37.3/45

In: 3.909 ± 3.322 χ^2/NDF : 48.1/43

Out: 1.134 ± 3.191 χ^2/NDF : 45.7/49

All: 2.466 ± 2.301 χ^2/NDF : 94.2/93

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.382 $\pm$ 0.004 χ^2 /NDF: 39788.8/20

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

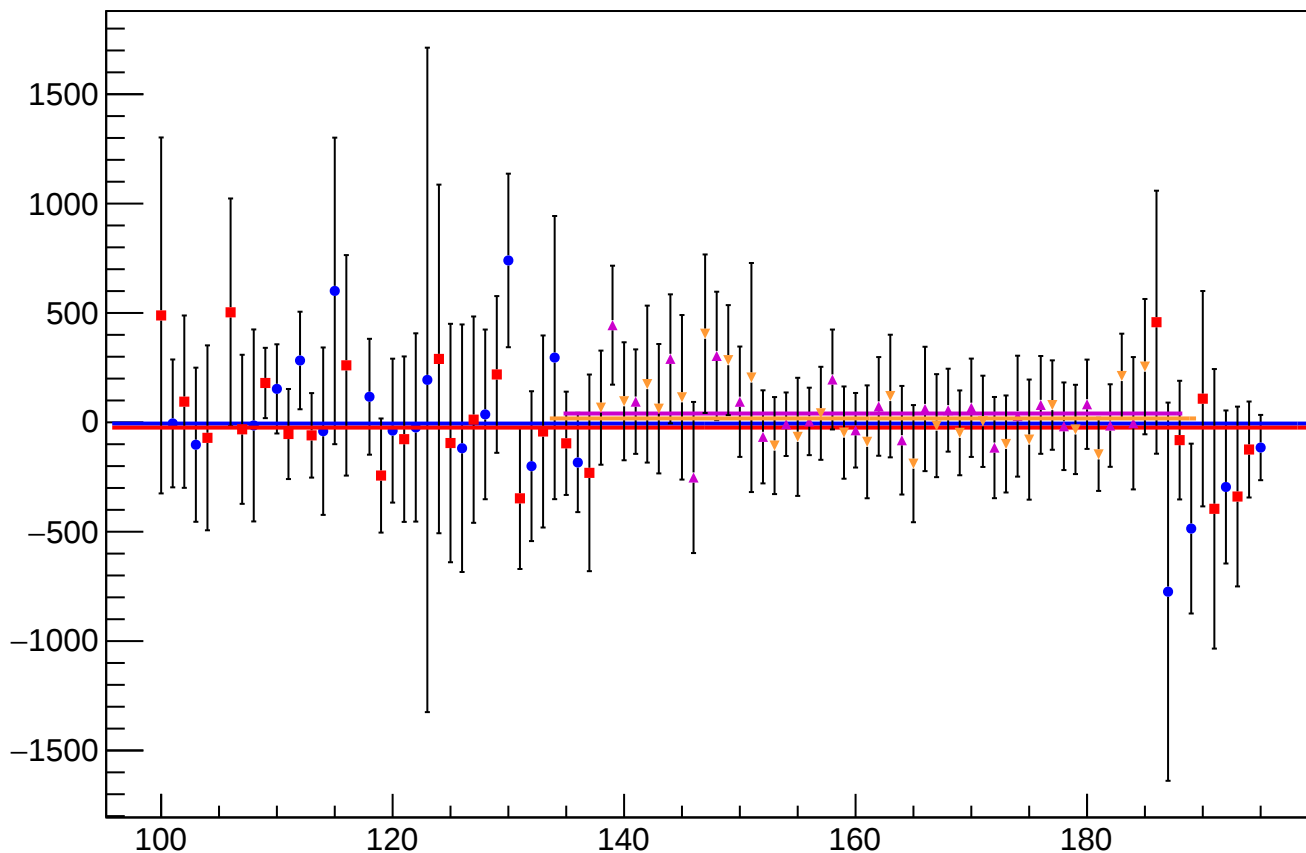
Right: 17.476 $\pm$ 0.003 χ^2 /NDF: 80653.3/45

In: 17.040 $\pm$ 0.002 χ^2 /NDF:168262.1/43

Out: 17.147 $\pm$ 0.002 χ^2 /NDF:196156.3/49

All: 17.096 $\pm$ 0.002 χ^2 /NDF: 365492.7/93

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -5.607 $\pm$ 68.219 χ^2 /NDF: 11.6/20

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

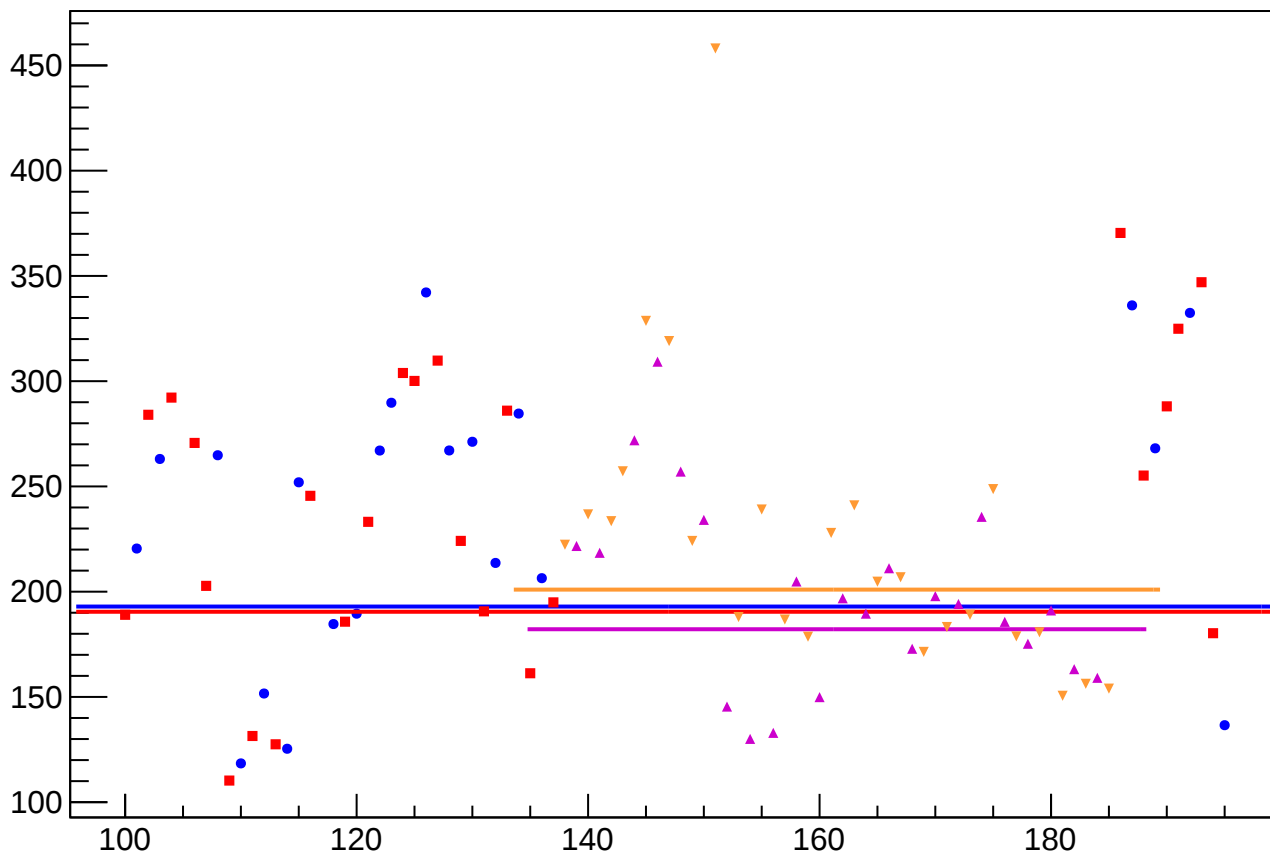
Right: -15.437 $\pm$ 46.625 χ^2 /NDF: 19.8/45

In: 26.123 $\pm$ 37.962 χ^2 /NDF: 18.6/43

Out: 2.492 $\pm$ 38.650 χ^2 /NDF: 15.8/49

All: 14.519 $\pm$ 27.083 χ^2 /NDF: 34.6/93

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.936 ± 0.048 $\chi^2/\text{NDF}: 1710513.4/20$

Left Out: 200.985 ± 0.034 $\chi^2/\text{NDF}: 1727291.4/24$

Right Out: 190.465 ± 0.045 $\chi^2/\text{NDF}: 2351083.8/24$

Left In: 182.158 ± 0.032 $\chi^2/\text{NDF}: 1535922.8/22$

Left: 191.001 ± 0.024 $\chi^2/\text{NDF}: 3422724.8/47$

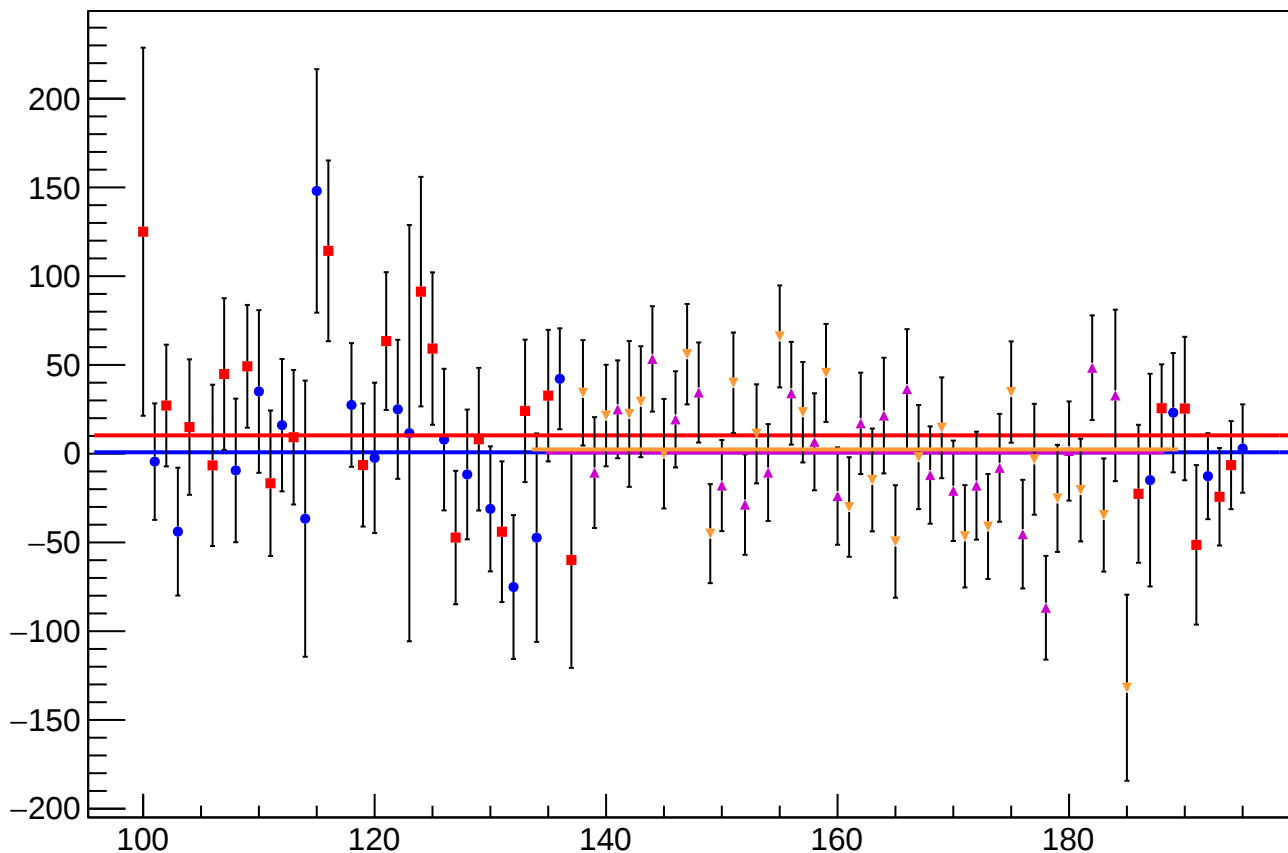
Right: 191.619 ± 0.033 $\chi^2/\text{NDF}: 4062996.0/45$

In: 185.496 ± 0.027 $\chi^2/\text{NDF}: 3280900.0/43$

Out: 197.133 ± 0.027 $\chi^2/\text{NDF}: 4112768.2/49$

All: 191.210 ± 0.019 $\chi^2/\text{NDF}: 7485953.7/93$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.786 $\pm$ 8.221 χ^2 /NDF: 16.3/20

Left Out: 2.390 $\pm$ 5.980 χ^2 /NDF:39.1/24

Right Out: 10.320 $\pm$ 7.581 χ^2 /NDF: 24.3/24

Left In: 0.641 $\pm$ 6.091 χ^2 /NDF:27.3/22

Left: 1.531 $\pm$ 4.267 χ^2 /NDF: 66.5/47

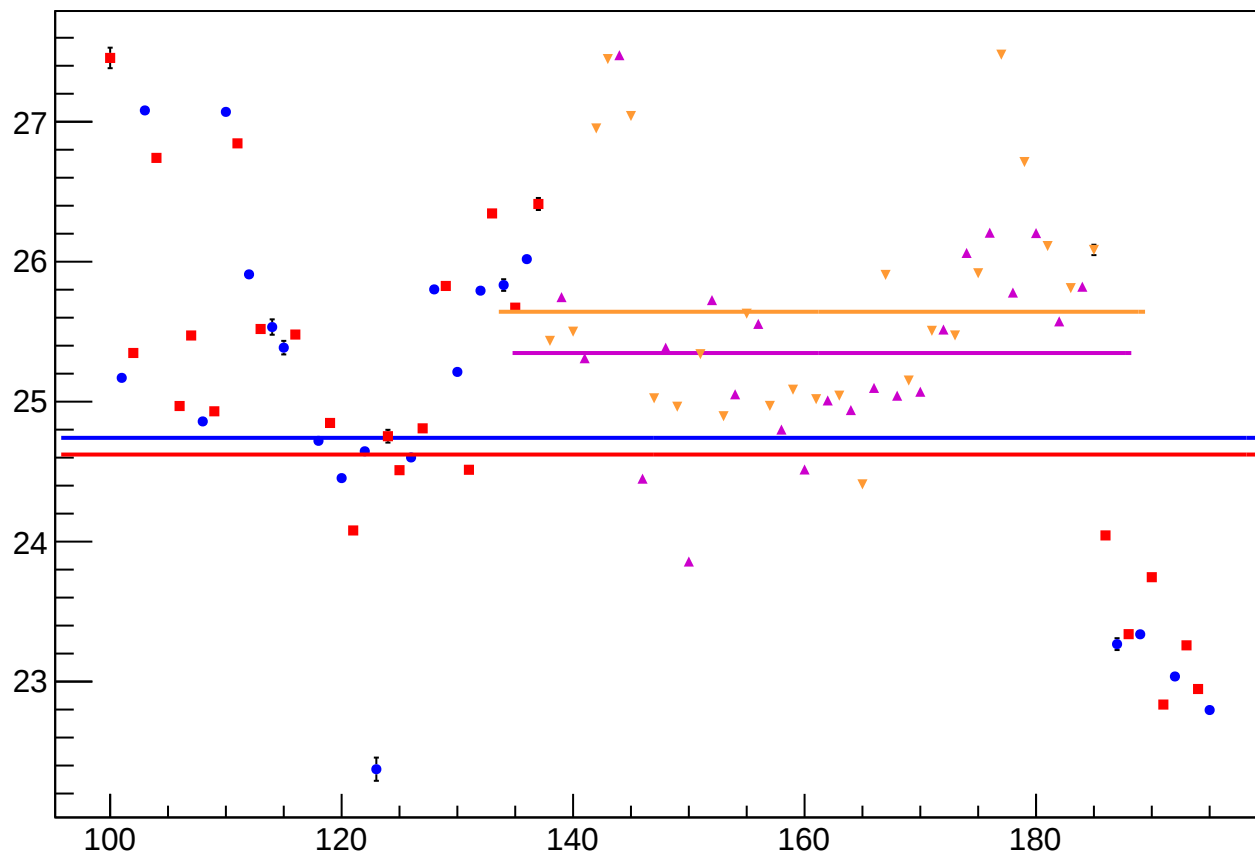
Right: 5.938 $\pm$ 5.573 χ^2 /NDF: 41.3/45

In: 0.692 $\pm$ 4.894 χ^2 /NDF:43.6/43

Out: 5.431 $\pm$ 4.695 χ^2 /NDF:64.1/49

All: 3.160 $\pm$ 3.388 χ^2 /NDF: 108.2/93

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.741 $\pm$ 0.006 χ^2 /NDF: 52208.3/20

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF: 34802.2/24

Right Out: 24.622 $\pm$ 0.005 χ^2 /NDF: 50582.2/24

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF: 29389.5/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 66578.5/47

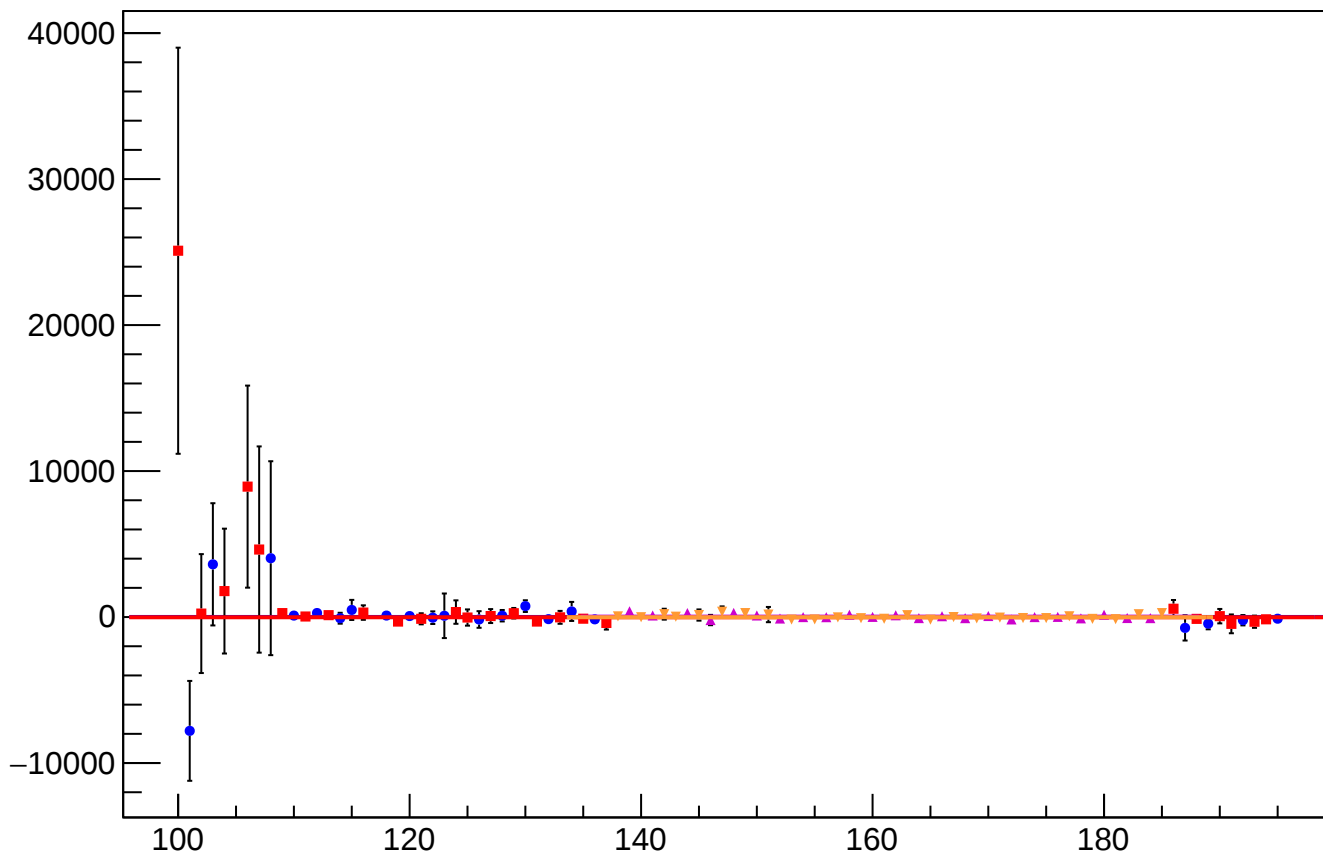
Right: 24.677 $\pm$ 0.004 χ^2 /NDF: 103017.9/45

In: 25.133 $\pm$ 0.003 χ^2 /NDF: 88614.8/43

Out: 25.251 $\pm$ 0.003 χ^2 /NDF: 107710.3/49

All: 25.194 $\pm$ 0.002 χ^2 /NDF: 196934.6/93

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 5.867+/-73.143 χ^2/NDF : 16.5/20

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

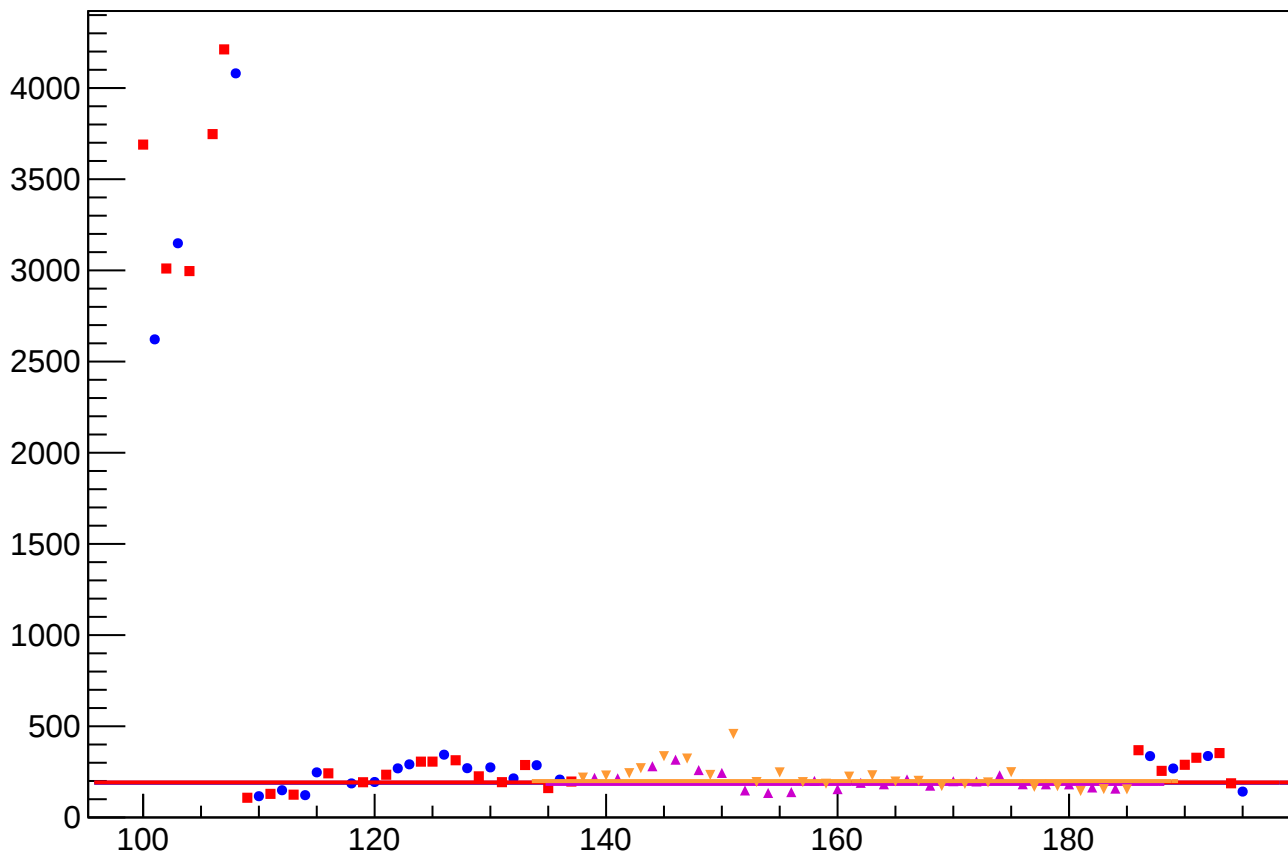
Right: -4.746+/-50.790 χ^2/NDF : 31.2/45

In: 21.081+/-38.939 χ^2/NDF : 23.7/43

Out: -12.450+/-39.839 χ^2/NDF : 22.7/49

All: 4.699+/-27.847 χ^2/NDF : 46.8/93

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.336+/-0.052 χ^2/NDF : 4249688.2/20

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 192.083+/-0.050 χ^2/NDF : 5057654.6/24

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

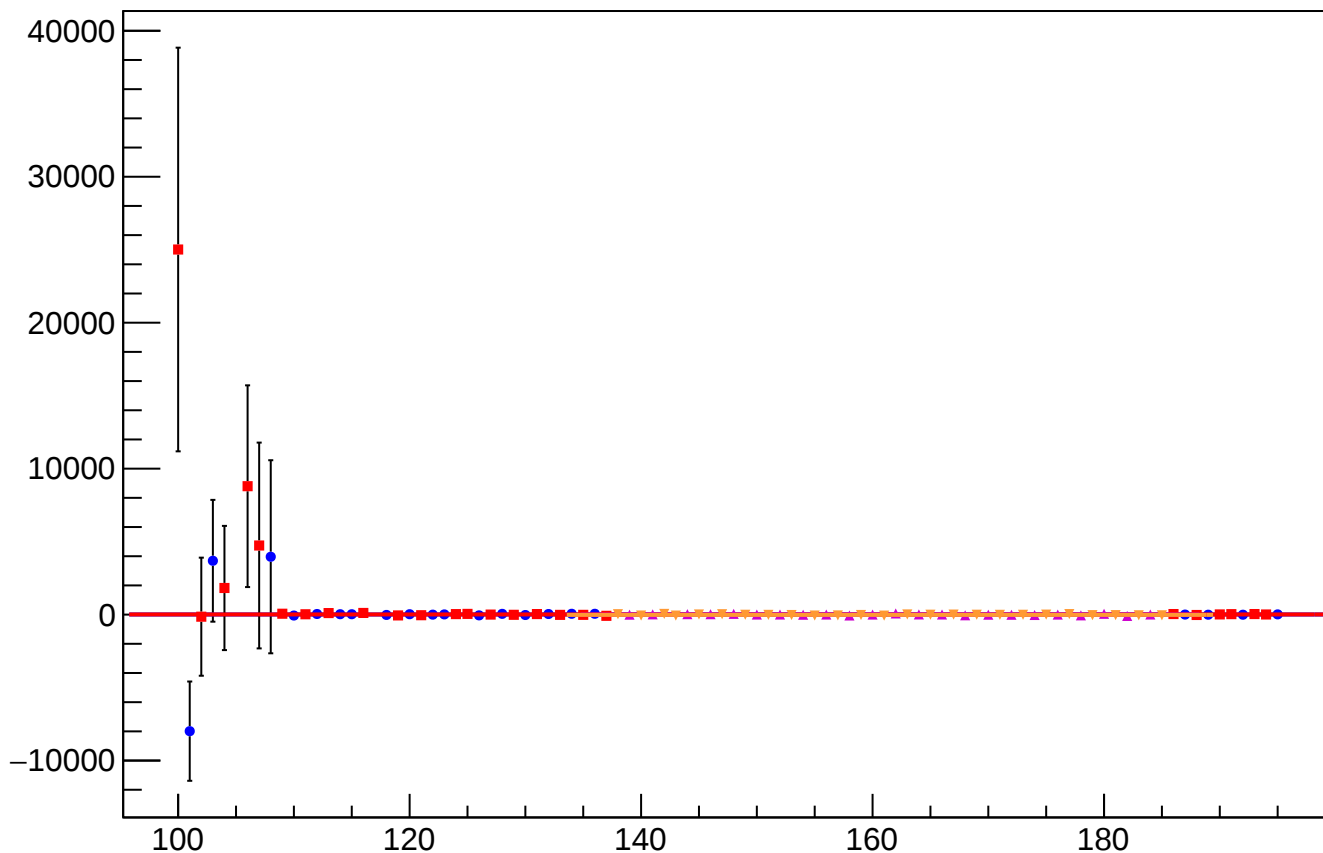
Right: 191.241+/-0.036 χ^2/NDF : 9307933.3/45

In: 185.656+/-0.028 χ^2/NDF : 5673985.9/43

Out: 197.095+/-0.028 χ^2/NDF : 6950302.2/49

All: 191.245+/-0.020 χ^2/NDF : 12708609.4/93

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.060 ± 10.029 $\chi^2/\text{NDF}: 18.9/20$

Left Out: -18.118 ± 6.704 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 11.744 ± 9.470 $\chi^2/\text{NDF}: 26.5/24$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

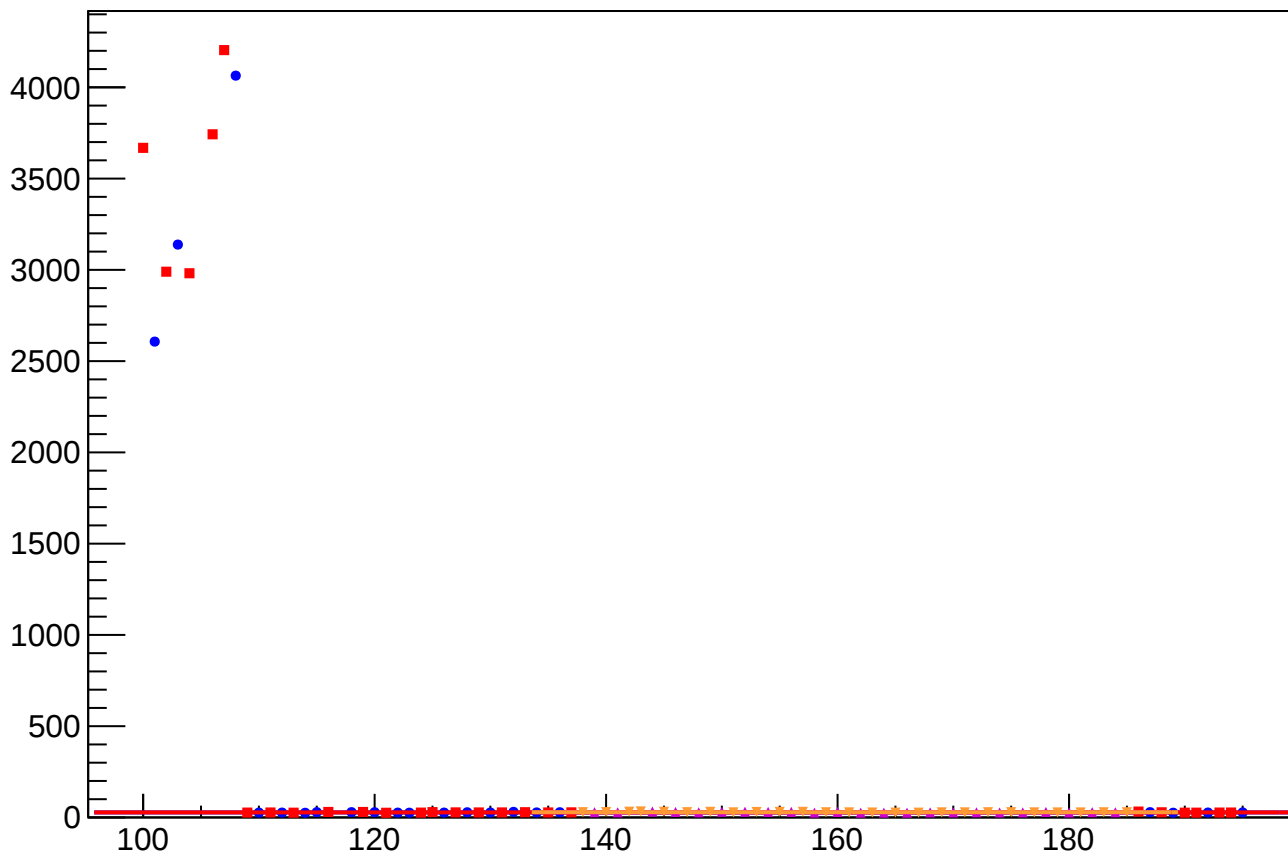
Right: 10.008 ± 6.885 $\chi^2/\text{NDF}: 45.5/45$

In: 3.453 ± 5.689 $\chi^2/\text{NDF}: 51.2/43$

Out: -8.149 ± 5.471 $\chi^2/\text{NDF}: 54.9/49$

All: -2.574 ± 3.943 $\chi^2/\text{NDF}: 108.3/93$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.580 $\pm$ 0.007 χ^2 /NDF: 3033710.7/20

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

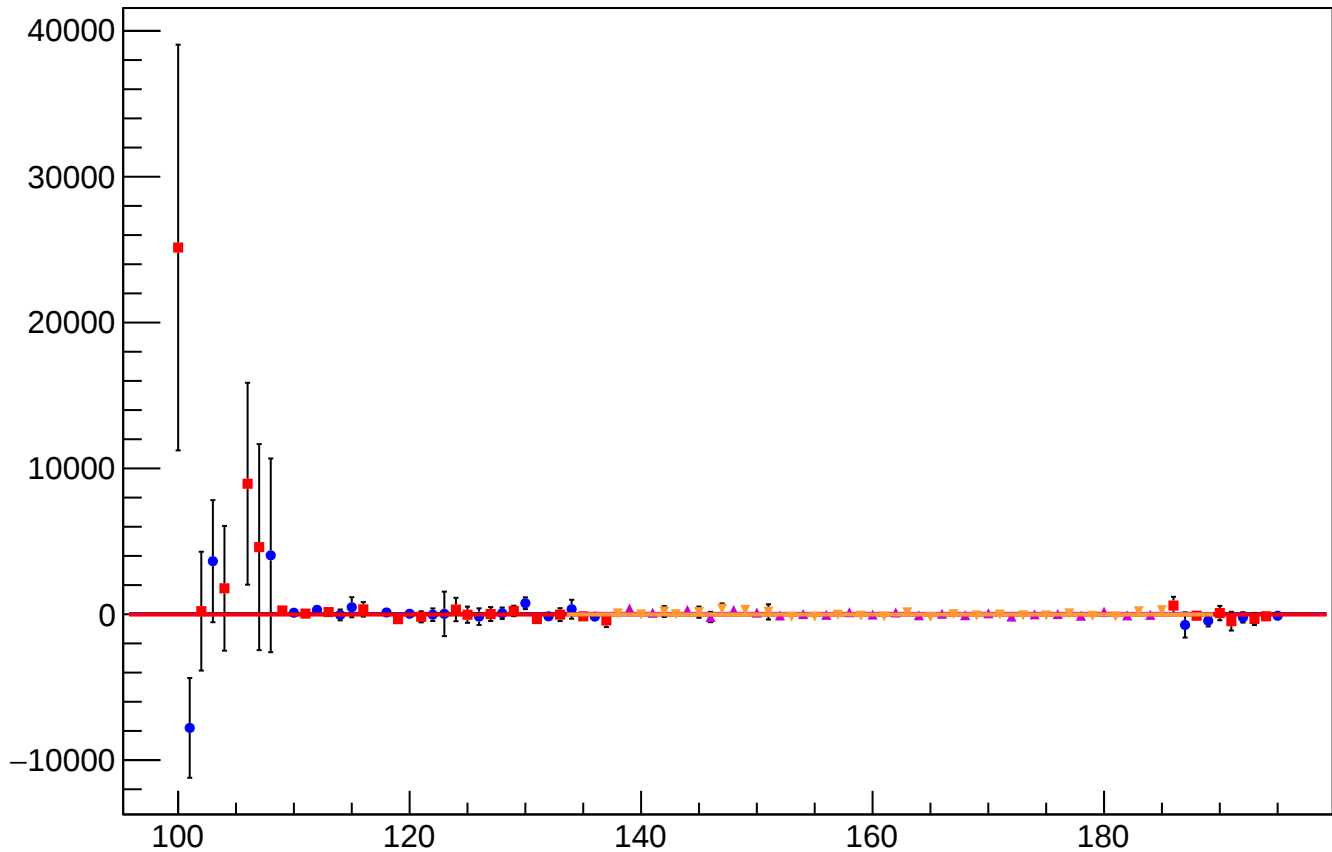
Right: 27.611 $\pm$ 0.005 χ^2 /NDF: 6532810.0/45

In: 28.324 $\pm$ 0.004 χ^2 /NDF:3173748.5/43

Out: 28.341 $\pm$ 0.004 χ^2 /NDF:3626089.0/49

All: 28.333 $\pm$ 0.003 χ^2 /NDF: 6799847.3/93

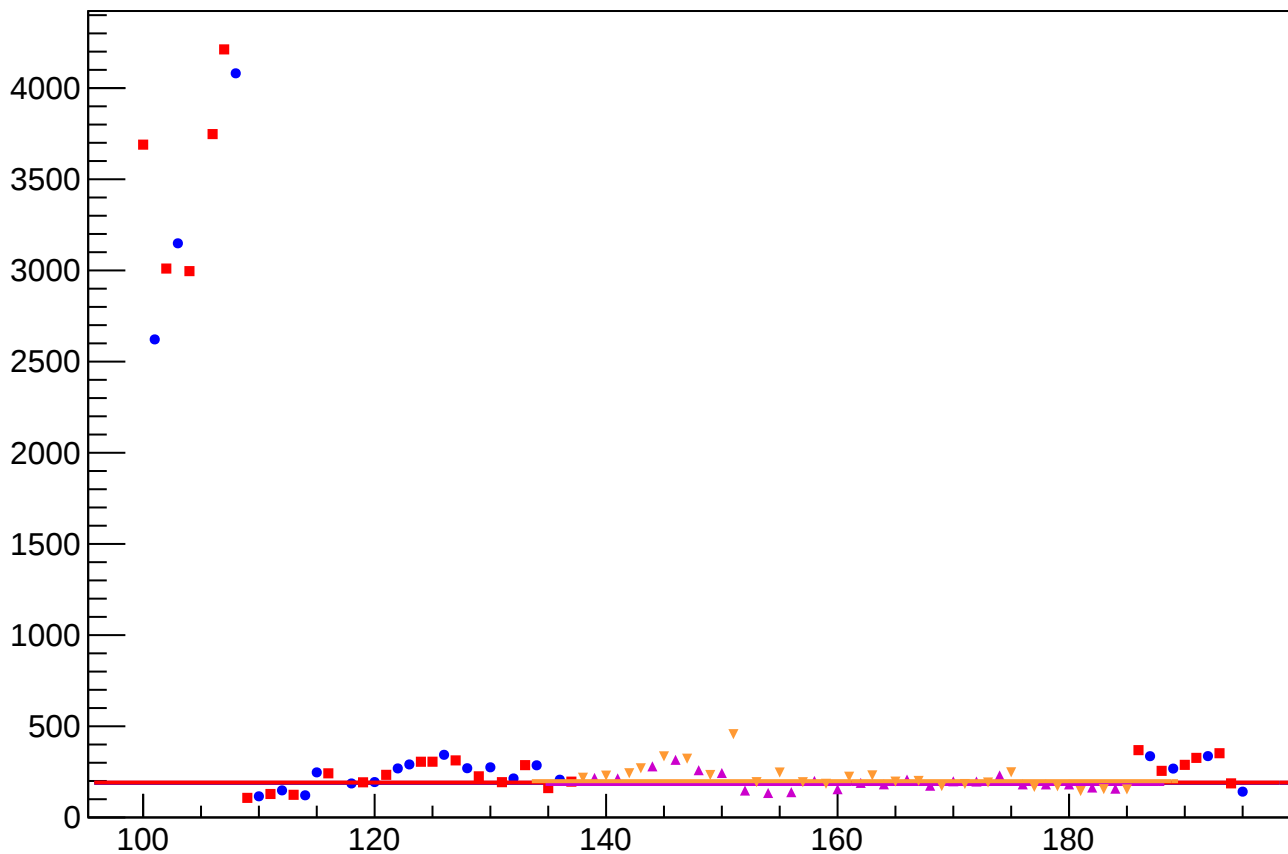
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 12.163+/-72.936 χ^2/NDF : 16.7/20
 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: -3.471+/-50.648 χ^2/NDF : 32.1/45
 In: 22.995+/-38.852 χ^2/NDF : 24.2/43
 Out: -15.202+/-39.744 χ^2/NDF : 24.2/49
 All: 4.330+/-27.782 χ^2/NDF : 48.8/93

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 189.711 $\pm$ 0.052 χ^2 /NDF: 4262423.0/20

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

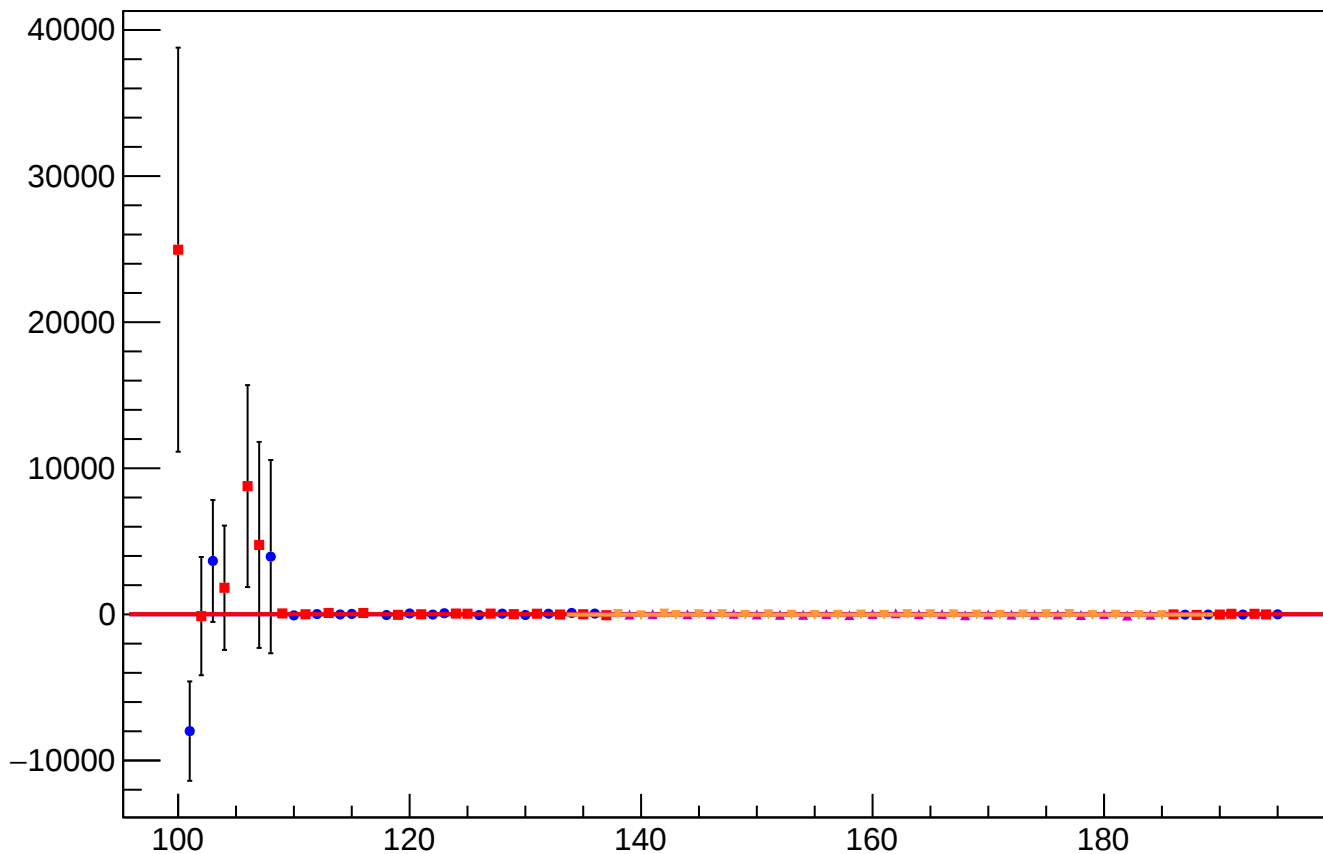
Right: 190.609 $\pm$ 0.036 χ^2 /NDF: 9338811.7/45

In: 185.221 $\pm$ 0.027 χ^2 /NDF:5685349.1/43

Out: 196.589 $\pm$ 0.028 χ^2 /NDF:6969116.3/49

All: 190.776 $\pm$ 0.020 χ^2 /NDF: 12738144.8/93

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.490+/-10.071 χ^2/NDF : 23.2/20

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

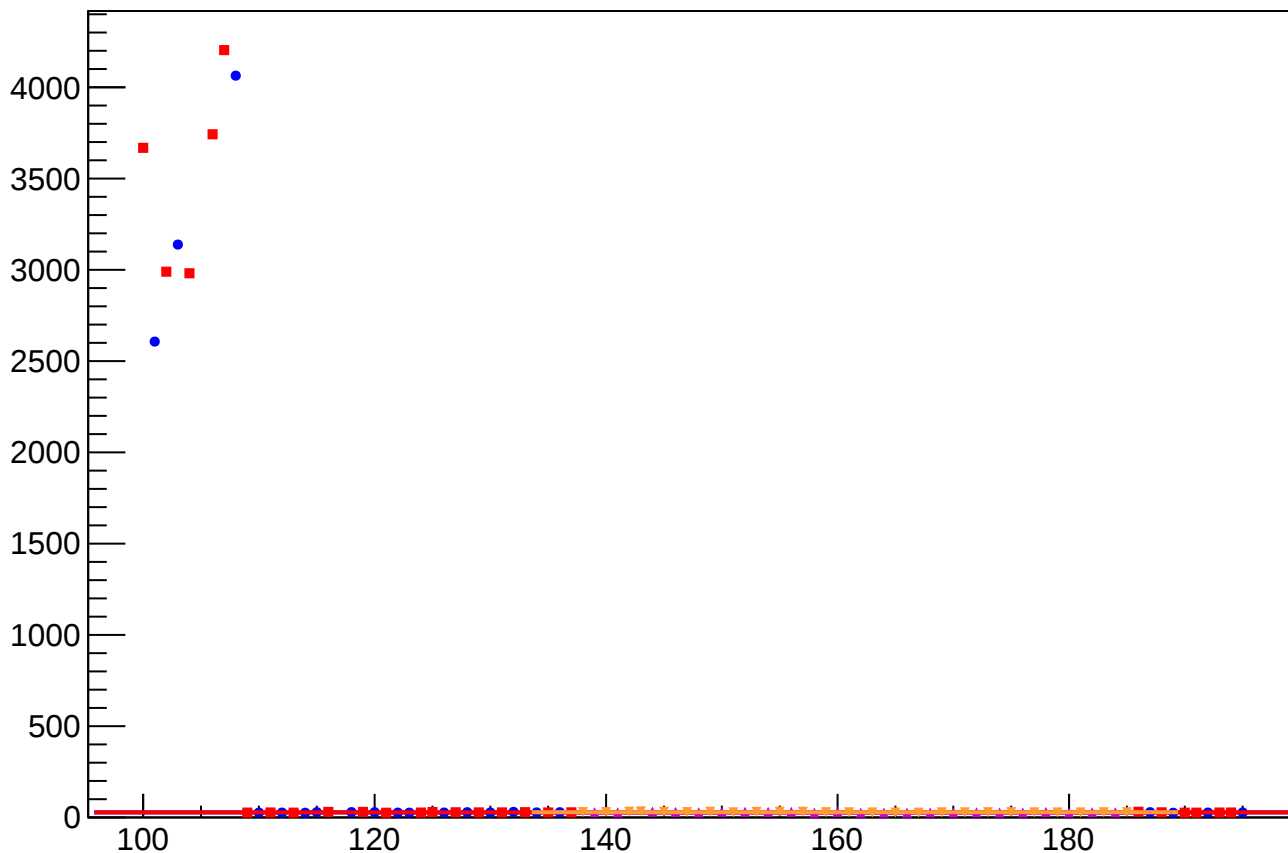
Right: 11.048+/-6.913 χ^2/NDF : 46.3/45

In: 1.107+/-5.713 χ^2/NDF :49.5/43

Out: -4.898+/-5.495 χ^2/NDF :46.7/49

All: -2.012+/-3.960 χ^2/NDF : 96.7/93

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.690 $\pm$ 0.007 χ^2 /NDF: 3036070.0/20

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF:122153.6/24

Right Out: 27.745 $\pm$ 0.007 χ^2 /NDF: 3497236.0/24

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF:128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

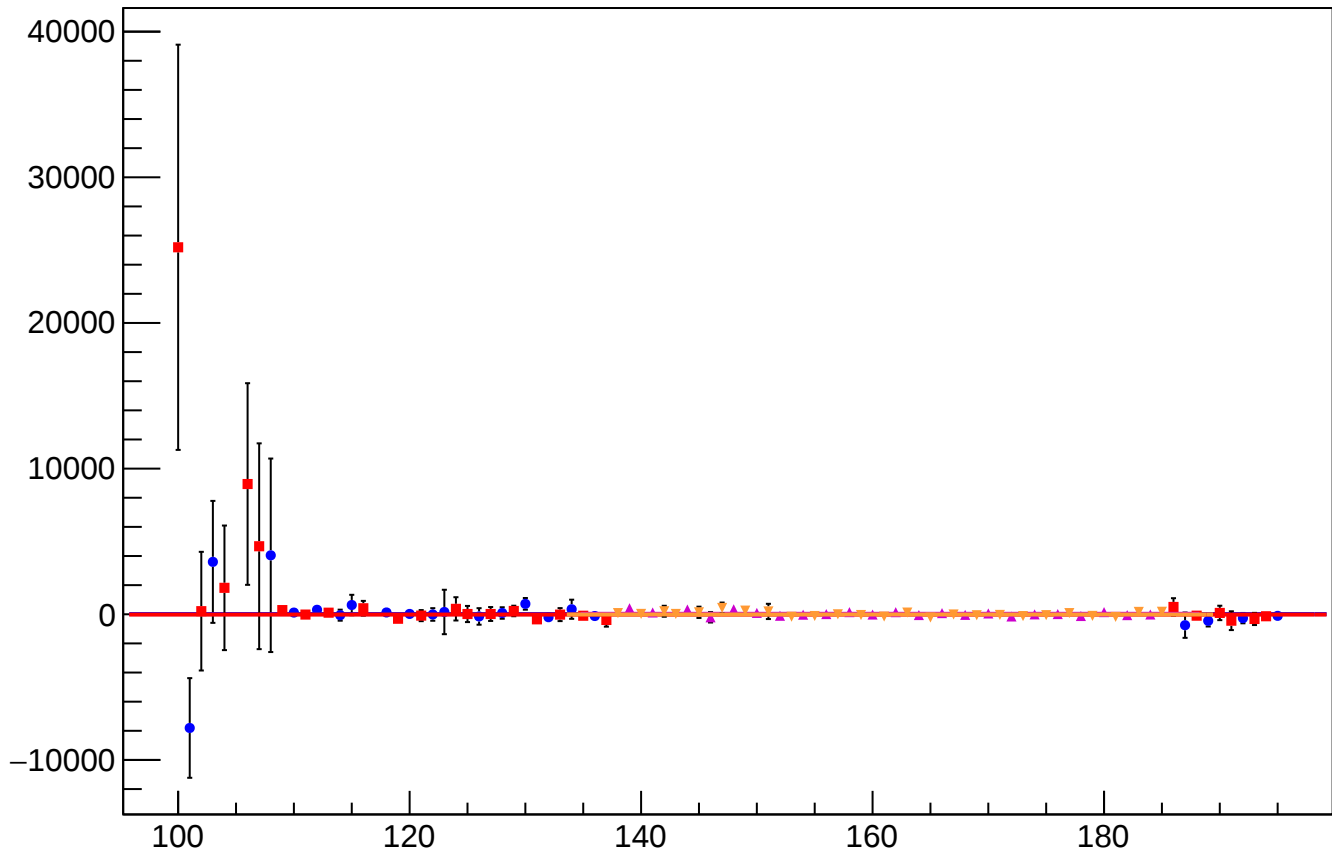
Right: 27.719 $\pm$ 0.005 χ^2 /NDF: 6533337.5/45

In: 28.441 $\pm$ 0.004 χ^2 /NDF:3180756.1/43

Out: 28.457 $\pm$ 0.004 χ^2 /NDF:3636248.4/49

All: 28.449 $\pm$ 0.003 χ^2 /NDF: 6817012.7/93

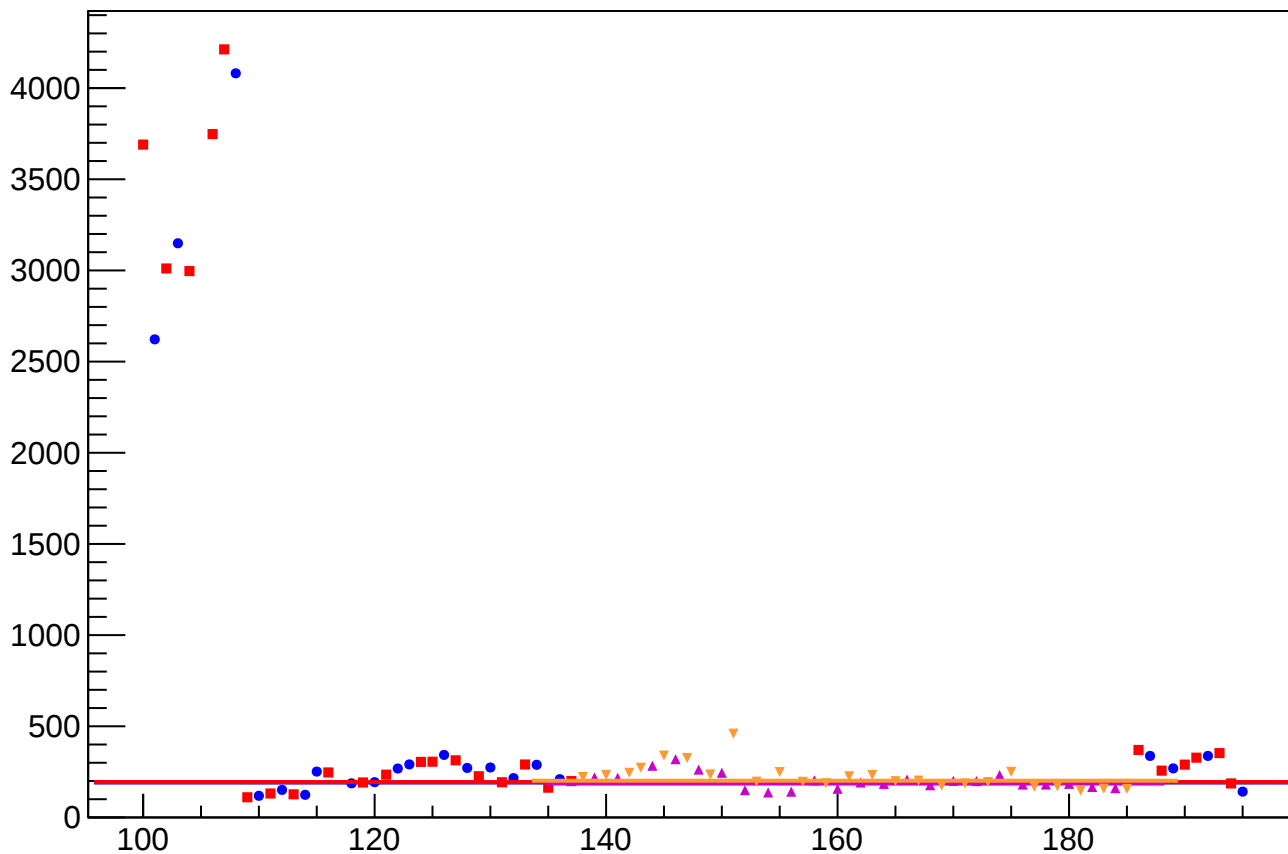
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 12.840+/-73.558 χ^2/NDF : 16.9/20
 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: -3.957+/-51.137 χ^2/NDF : 31.5/45
 In: 26.159+/-39.295 χ^2/NDF : 24.8/43
 Out: -15.787+/-40.206 χ^2/NDF : 22.6/49
 All: 5.667+/-28.102 χ^2/NDF : 48.0/93

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.601 $\pm$ 0.052 χ^2/NDF : 4221787.3/20

Left Out: 201.503 $\pm$ 0.034 χ^2/NDF : 1854905.1/24

Right Out: 194.048 $\pm$ 0.050 χ^2/NDF : 4994839.5/24

Left In: 185.878 $\pm$ 0.033 χ^2/NDF : 1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2/NDF : 3343425.2/47

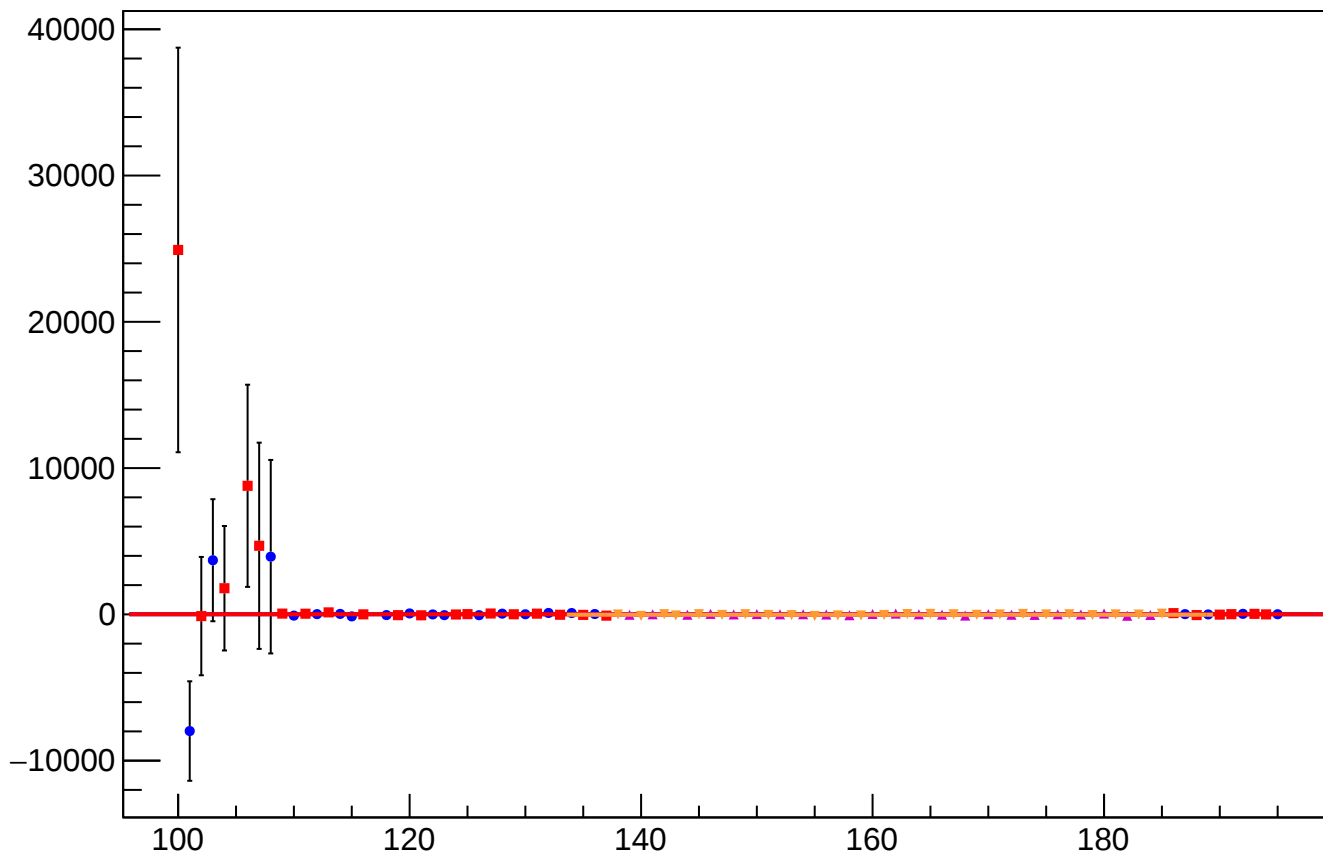
Right: 192.866 $\pm$ 0.036 χ^2/NDF : 9217770.4/45

In: 187.512 $\pm$ 0.028 χ^2/NDF : 5611316.0/43

Out: 199.122 $\pm$ 0.028 χ^2/NDF : 6864690.6/49

All: 193.184 $\pm$ 0.020 χ^2/NDF : 12561306.4/93

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.848+/-12.283 χ^2/NDF : 20.8/20

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

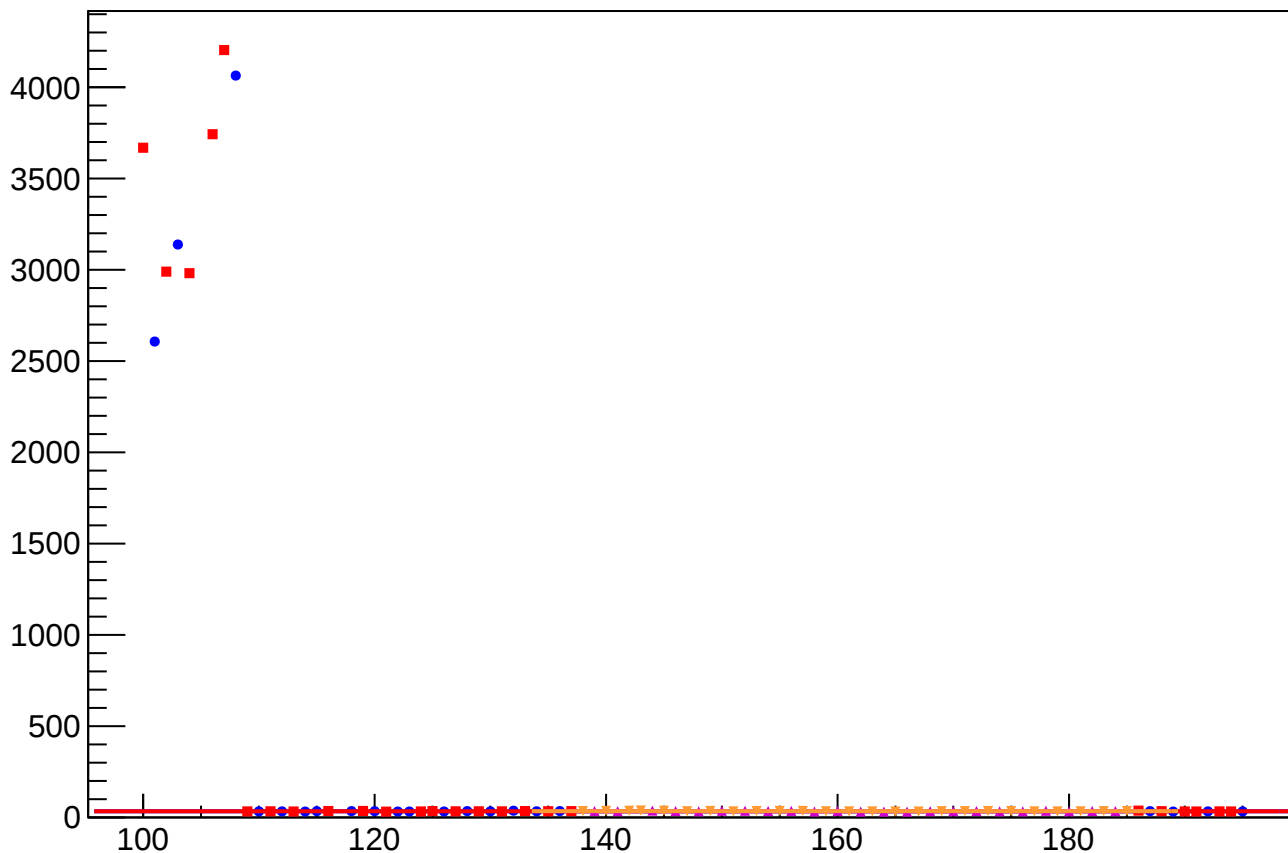
Right: 8.805+/-8.424 χ^2/NDF : 46.8/45

In: -0.947+/-6.900 χ^2/NDF : 42.9/43

Out: -13.660+/-6.624 χ^2/NDF : 56.0/49

All: -7.563+/-4.778 χ^2/NDF : 100.7/93

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.805 $\pm$ 0.009 χ^2 /NDF: 3011031.5/20

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

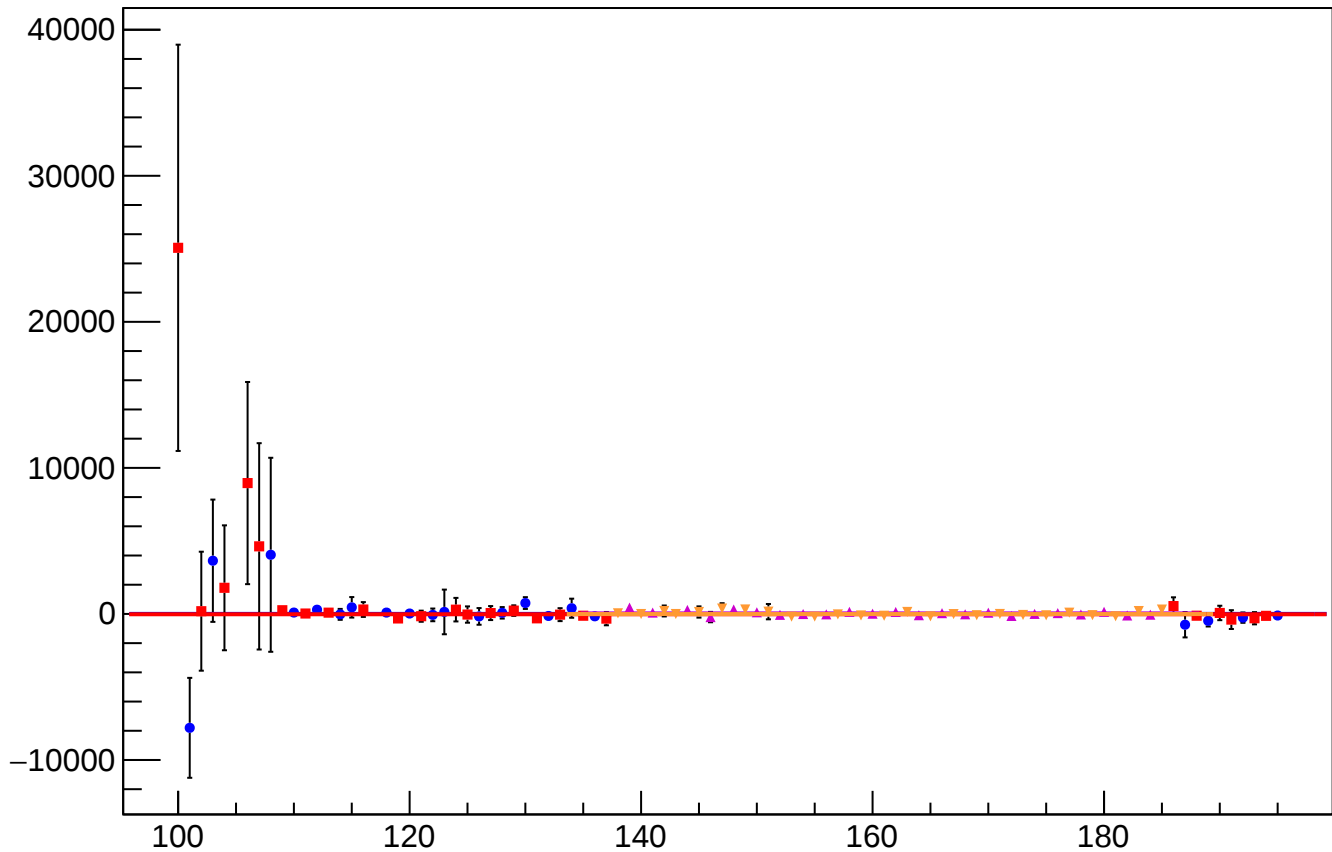
Right: 33.831 $\pm$ 0.006 χ^2 /NDF: 6473176.8/45

In: 34.405 $\pm$ 0.005 χ^2 /NDF: 3077845.7/43

Out: 34.367 $\pm$ 0.005 χ^2 /NDF: 3525856.1/49

All: 34.385 $\pm$ 0.003 χ^2 /NDF: 6603732.7/93

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 2.777 ± 73.297 $\chi^2/\text{NDF}: 16.6/20$

Left Out: -7.558 ± 48.662 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -22.404 ± 70.773 $\chi^2/\text{NDF}: 13.2/24$

Left In: 34.977 ± 46.421 $\chi^2/\text{NDF}: 7.1/22$

Left: 14.712 ± 33.589 $\chi^2/\text{NDF}: 16.3/47$

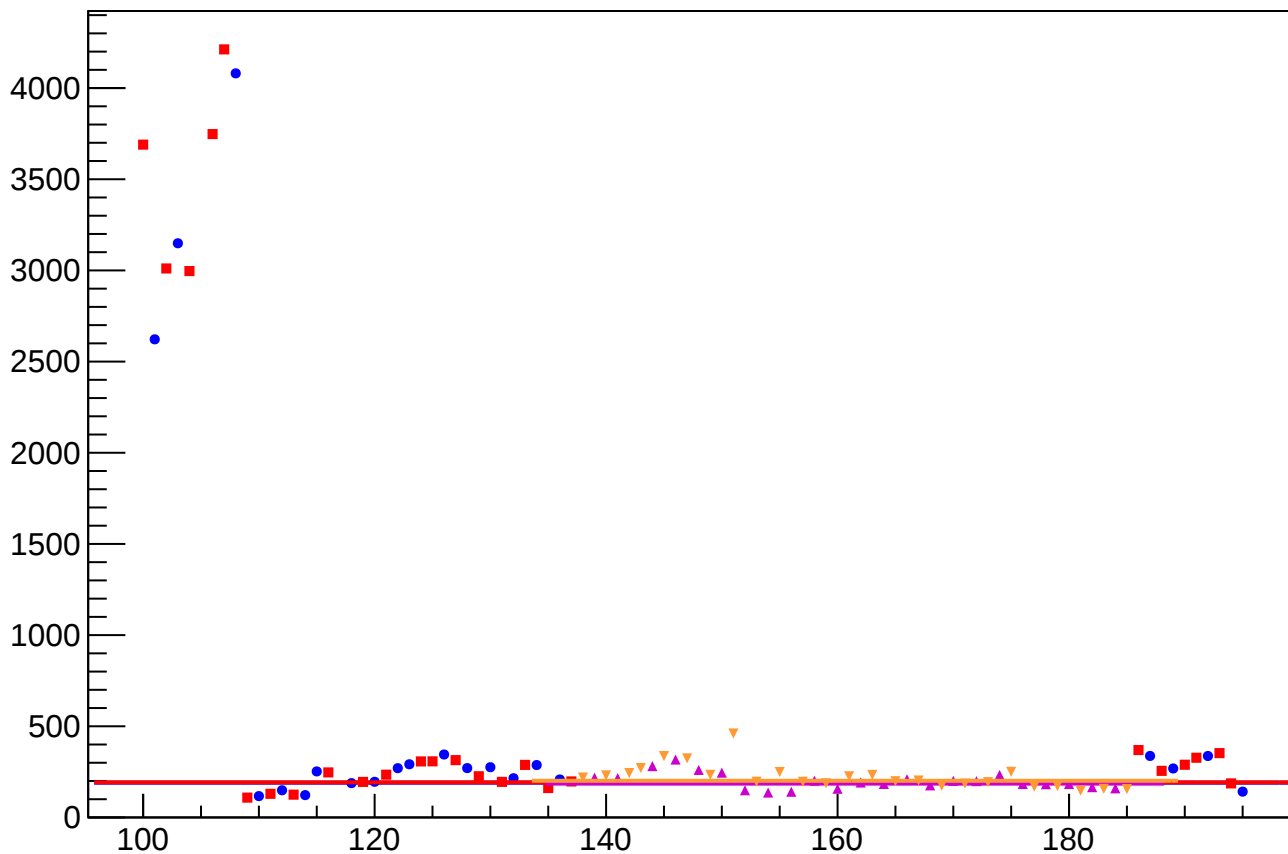
Right: -10.254 ± 50.913 $\chi^2/\text{NDF}: 29.9/45$

In: 25.759 ± 39.217 $\chi^2/\text{NDF}: 23.9/43$

Out: -12.324 ± 40.098 $\chi^2/\text{NDF}: 22.0/49$

All: 7.141 ± 28.037 $\chi^2/\text{NDF}: 46.4/93$

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.703 $\pm$ 0.052 χ^2 /NDF: 4255891.2/20

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

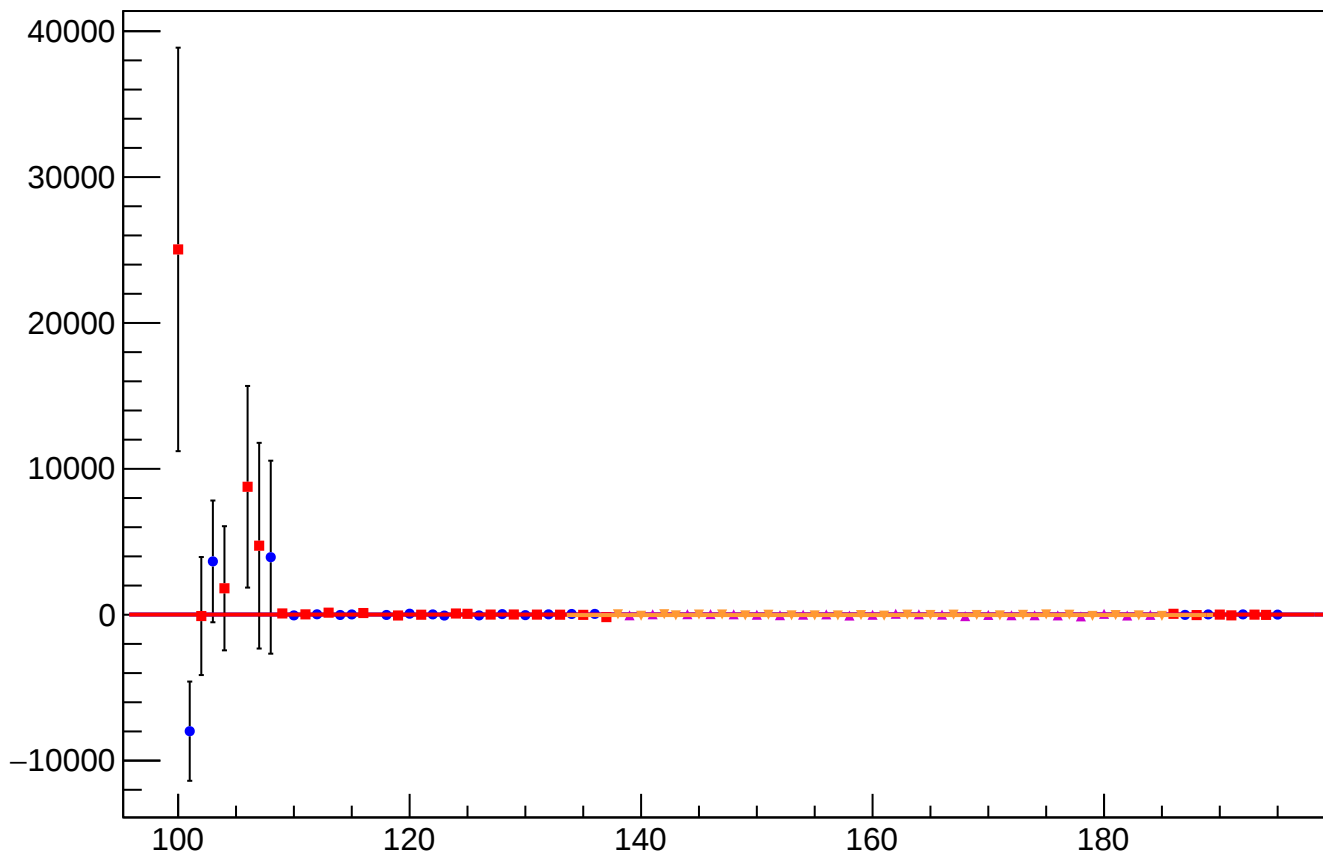
Right: 191.708 $\pm$ 0.036 χ^2 /NDF: 9311528.5/45

In: 187.081 $\pm$ 0.028 χ^2 /NDF:5634148.0/43

Out: 198.453 $\pm$ 0.028 χ^2 /NDF:6923181.3/49

All: 192.640 $\pm$ 0.020 χ^2 /NDF: 12639551.5/93

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.782+/-11.147 χ^2/NDF : 15.0/20

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

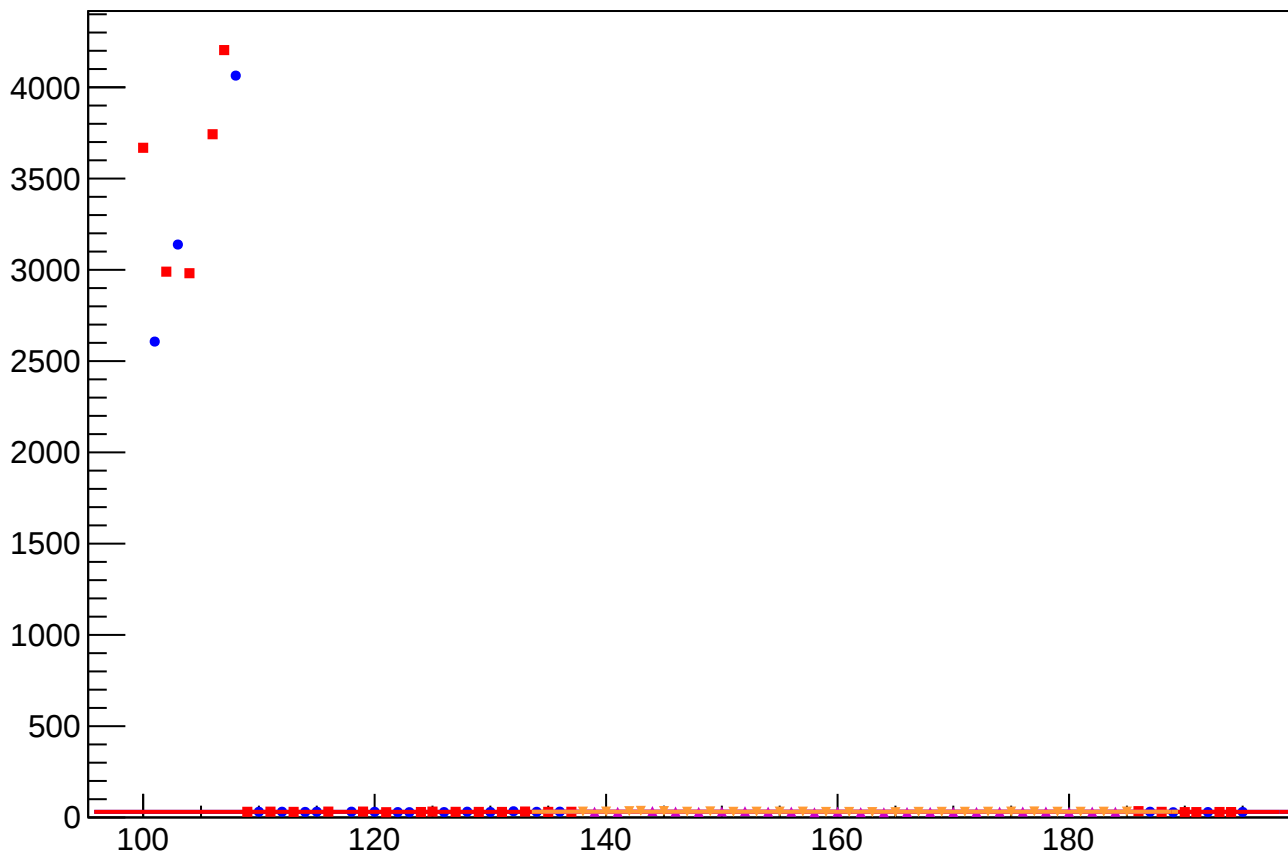
Right: 13.140+/-7.646 χ^2/NDF : 46.4/45

In: 0.303+/-6.266 χ^2/NDF :56.2/43

Out: -11.818+/-6.024 χ^2/NDF :57.2/49

All: -5.996+/-4.343 χ^2/NDF : 115.3/93

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.672 $\pm$ 0.008 χ^2 /NDF: 3024323.0/20

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.698 $\pm$ 0.007 χ^2 /NDF: 3475575.0/24

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

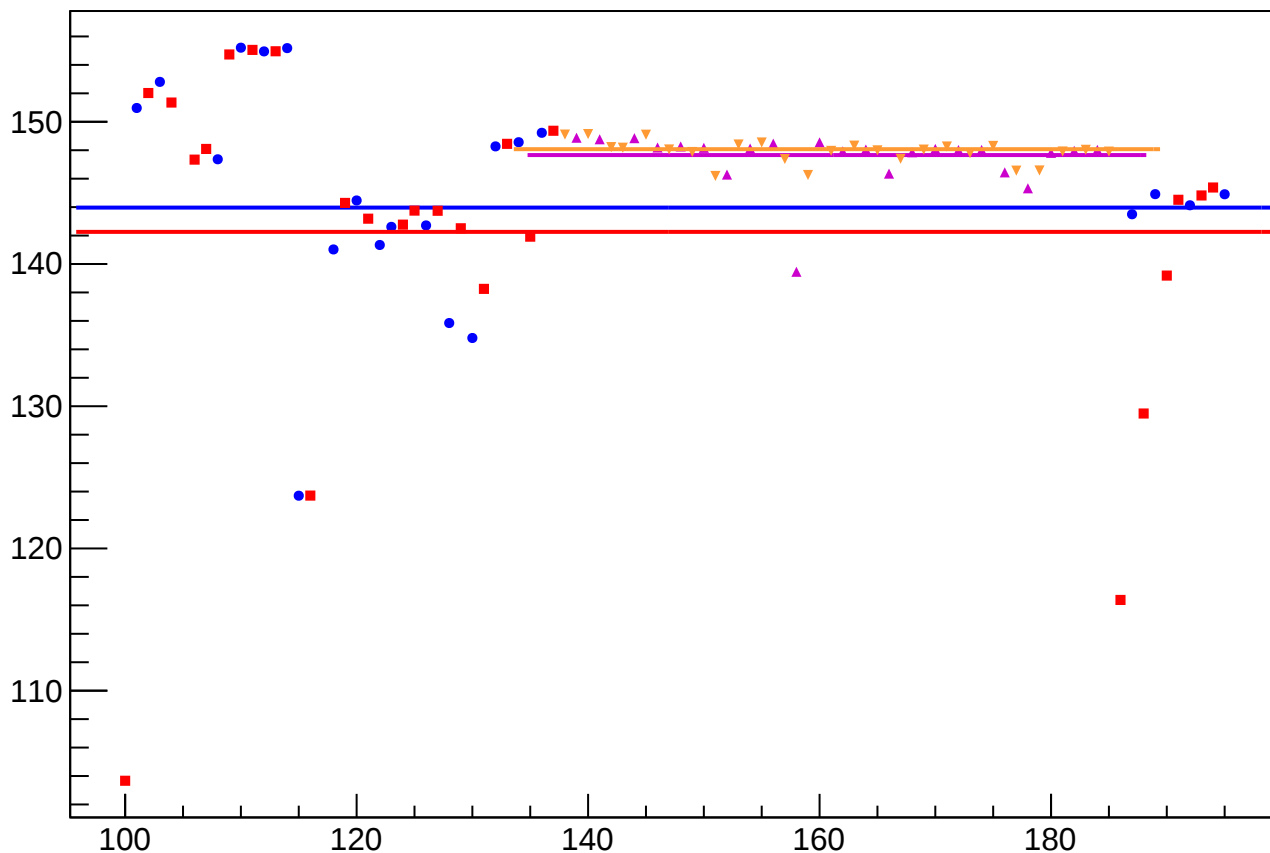
Right: 30.686 $\pm$ 0.005 χ^2 /NDF: 6499903.8/45

In: 31.222 $\pm$ 0.004 χ^2 /NDF: 3119225.0/43

Out: 31.229 $\pm$ 0.004 χ^2 /NDF: 3565107.2/49

All: 31.225 $\pm$ 0.003 χ^2 /NDF: 6684333.6/93

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.967 $\pm$ 0.000 χ^2/NDF : 3454634255.2/20

Left Out: 148.074 $\pm$ 0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.259 $\pm$ 0.000 χ^2/NDF : 7307194215.2/24

Left In: 147.660 $\pm$ 0.000 χ^2/NDF : 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2/NDF : 417177881.5/47

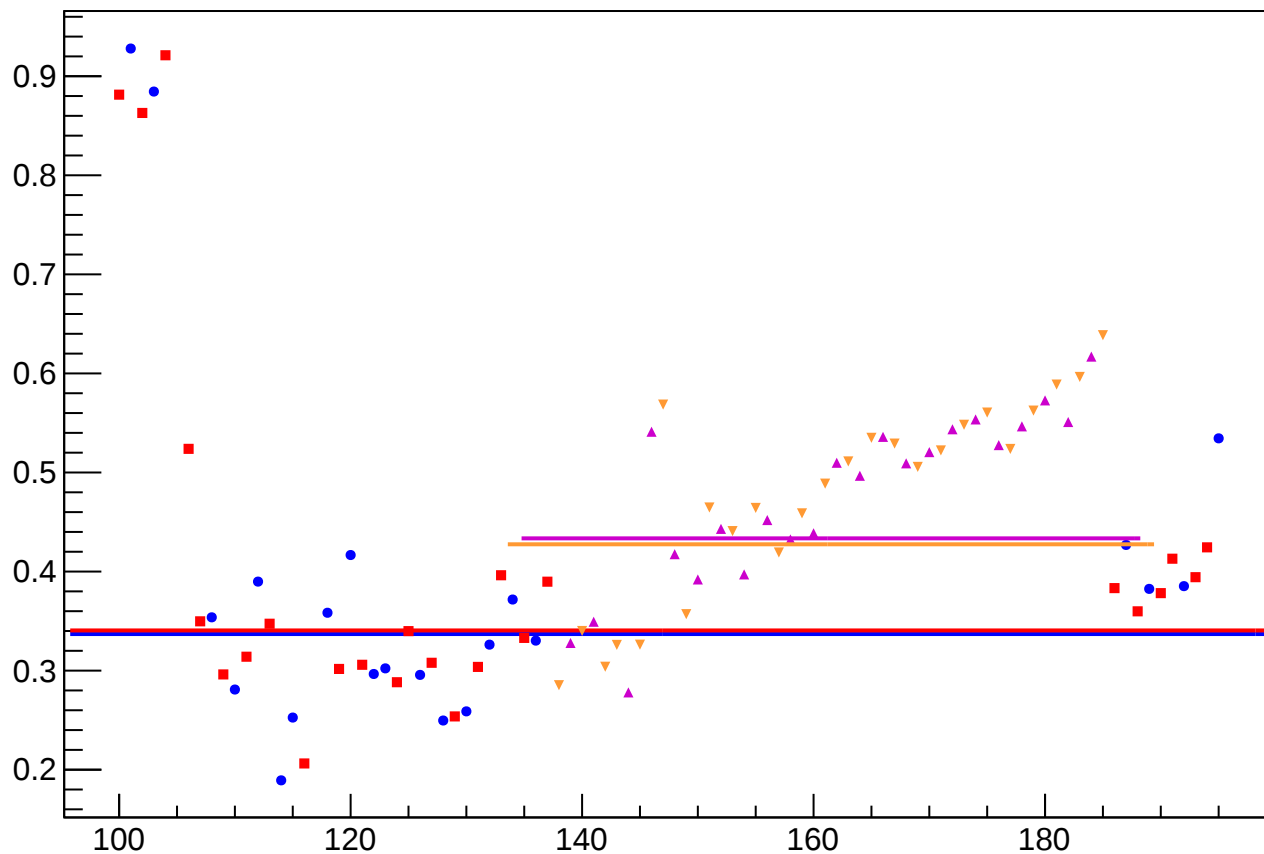
Right: 143.052 $\pm$ 0.000 χ^2/NDF : 10867966365.5/45

In: 146.028 $\pm$ 0.000 χ^2/NDF : 4316124687.9/43

Out: 145.409 $\pm$ 0.000 χ^2/NDF : 8808061600.9/49

All: 145.702 $\pm$ 0.000 χ^2/NDF : 13155290811.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.337 $\pm$ 0.000 χ^2 /NDF: 1596745.0/20

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.341 $\pm$ 0.000 χ^2 /NDF: 1381505.0/24

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

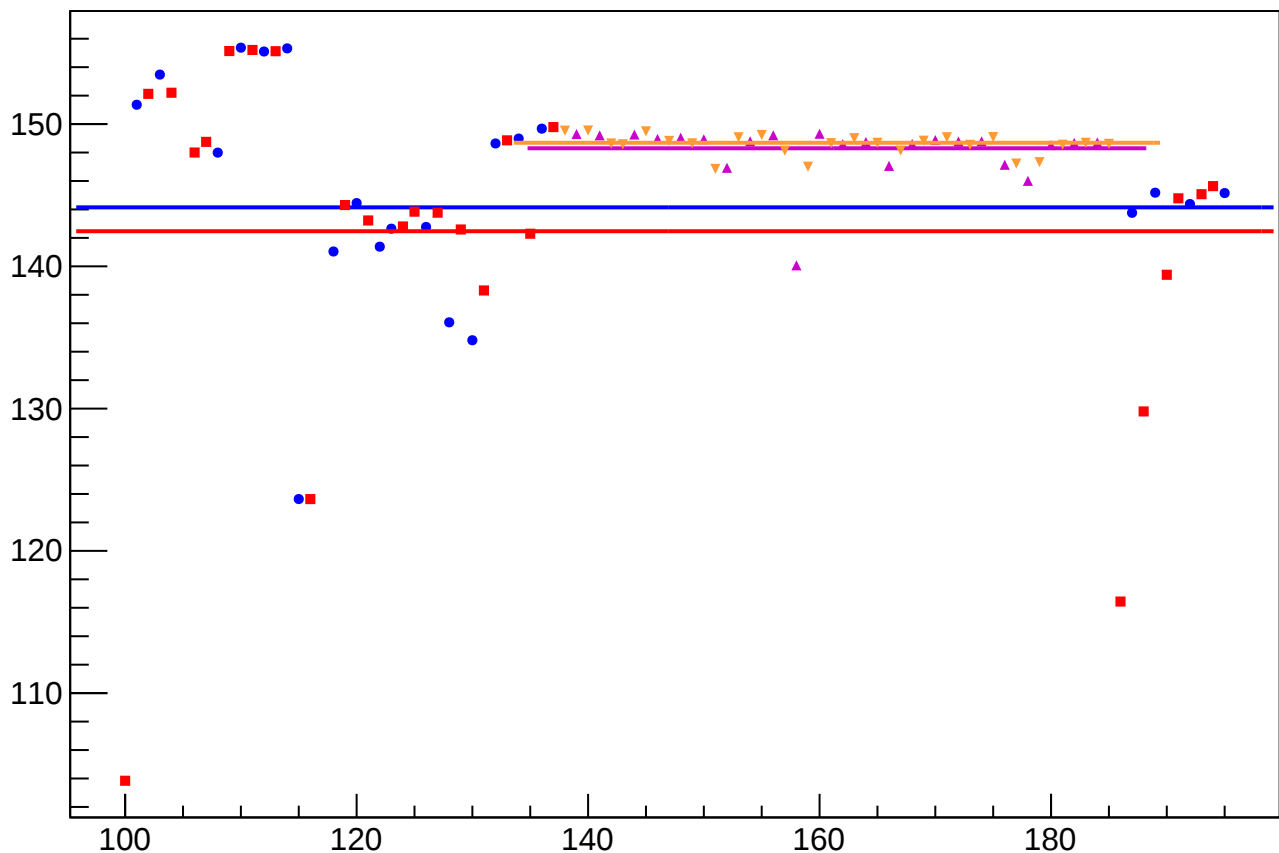
Right: 0.339 $\pm$ 0.000 χ^2 /NDF: 2979211.0/45

In: 0.391 $\pm$ 0.000 χ^2 /NDF:3783820.0/43

Out: 0.388 $\pm$ 0.000 χ^2 /NDF:3916245.3/49

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7701695.4/93

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.146+/-0.000 χ^2/NDF : 3499692108.9/20

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

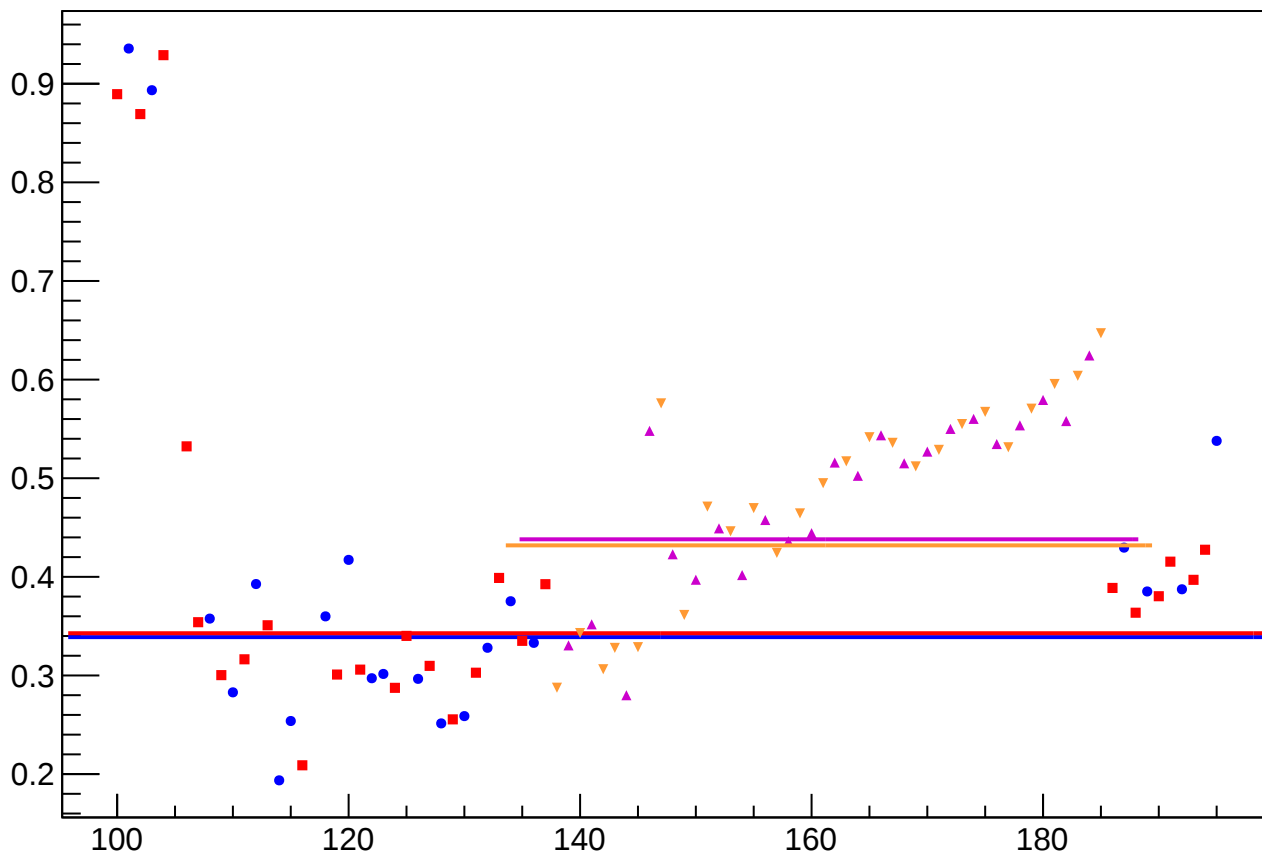
Right: 143.248+/-0.000 χ^2/NDF : 10853022415.1/45

In: 146.453+/-0.000 χ^2/NDF : 4475775136.9/43

Out: 145.824+/-0.000 χ^2/NDF : 8918410414.3/49

All: 146.122+/-0.000 χ^2/NDF : 13425667054.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.339+/-0.000 χ^2/NDF : 1598953.8/20

Left Out: 0.432+/-0.000 χ^2/NDF :1924979.0/24

Right Out: 0.343+/-0.000 χ^2/NDF : 1386683.9/24

Left In: 0.438+/-0.000 χ^2/NDF :1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3432903.3/47

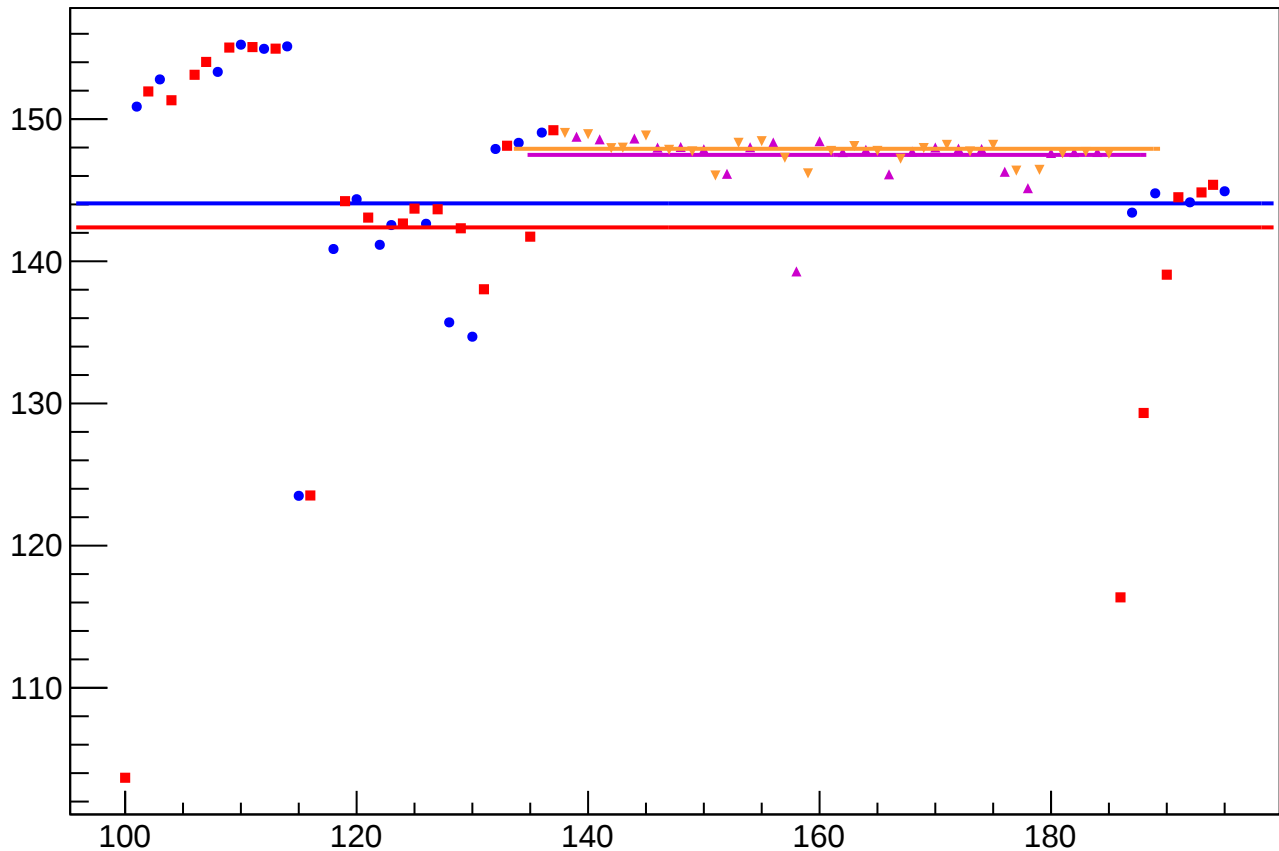
Right: 0.341+/-0.000 χ^2/NDF : 2986747.8/45

In: 0.394+/-0.000 χ^2/NDF :3837830.5/43

Out: 0.391+/-0.000 χ^2/NDF :3974165.0/49

All: 0.392+/-0.000 χ^2/NDF : 7813517.6/93

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.073 $\pm$ 0.000 χ^2 /NDF: 3666110697.4/20

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

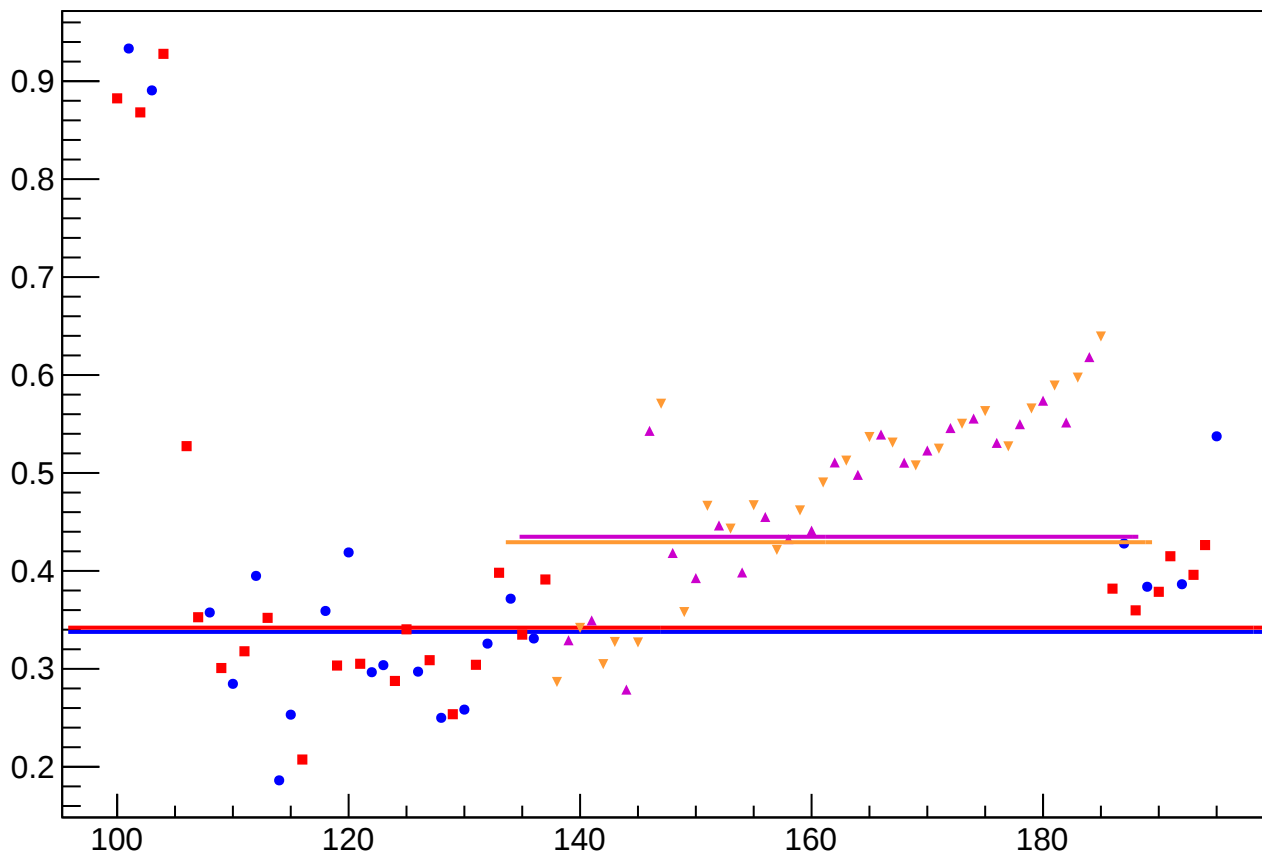
Right: 143.169 $\pm$ 0.000 χ^2 /NDF: 11465488955.2/45

In: 145.976 $\pm$ 0.000 χ^2 /NDF: 4447384880.6/43

Out: 145.378 $\pm$ 0.000 χ^2 /NDF: 9047273869.2/49

All: 145.662 $\pm$ 0.000 χ^2 /NDF: 13523378946.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.338 $\pm$ 0.000 χ^2 /NDF: 1614618.4/20

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

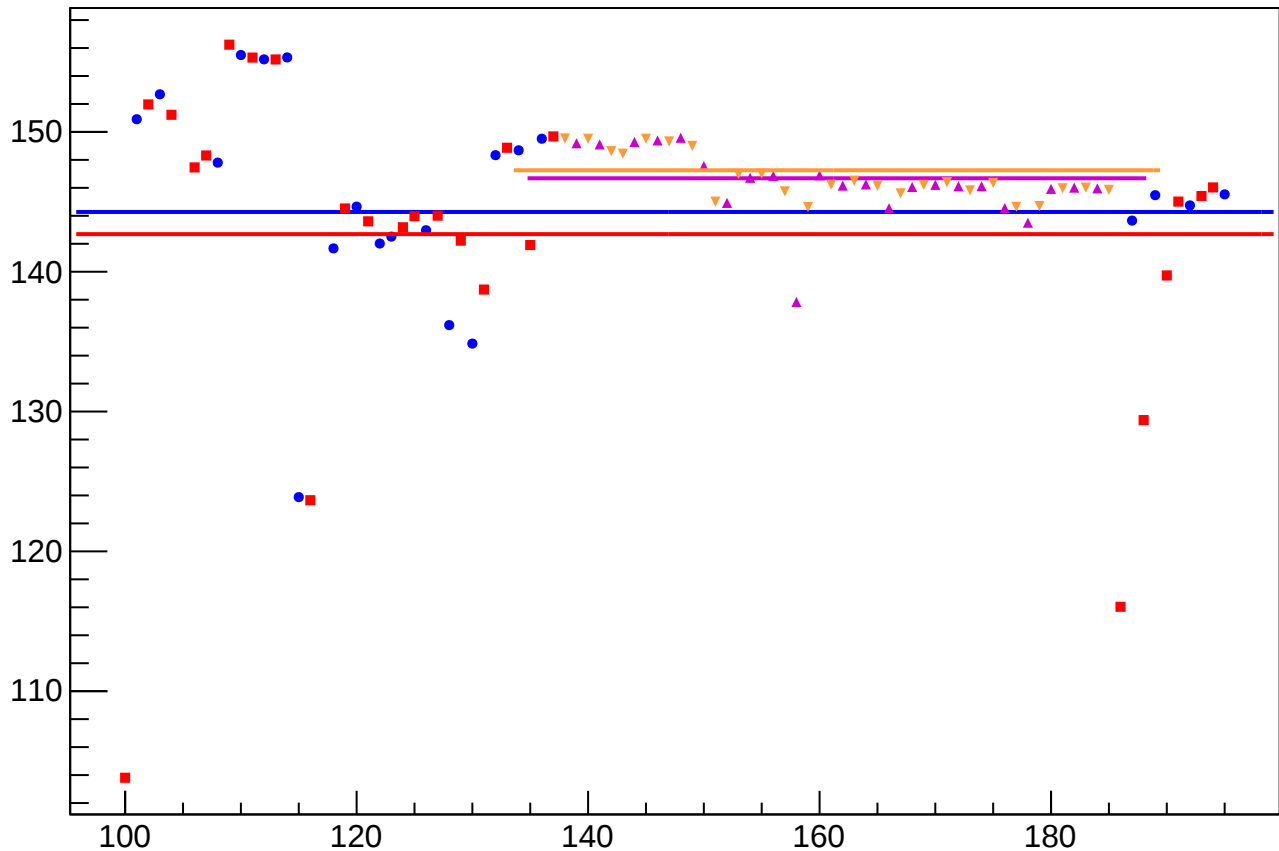
Right: 0.340 $\pm$ 0.000 χ^2 /NDF: 2998857.3/45

In: 0.392 $\pm$ 0.000 χ^2 /NDF:3812030.6/43

Out: 0.389 $\pm$ 0.000 χ^2 /NDF:3915032.0/49

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 7728164.2/93

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.275 ± 0.000 $\chi^2/\text{NDF}: 3171531910.4/20$

Left Out: 147.257 ± 0.000 $\chi^2/\text{NDF}: 261906278.3/24$

Right Out: 142.690 ± 0.000 $\chi^2/\text{NDF}: 7006952245.2/24$

Left In: 146.685 ± 0.000 $\chi^2/\text{NDF}: 554922388.0/22$

Left: 146.981 ± 0.000 $\chi^2/\text{NDF}: 830580031.2/47$

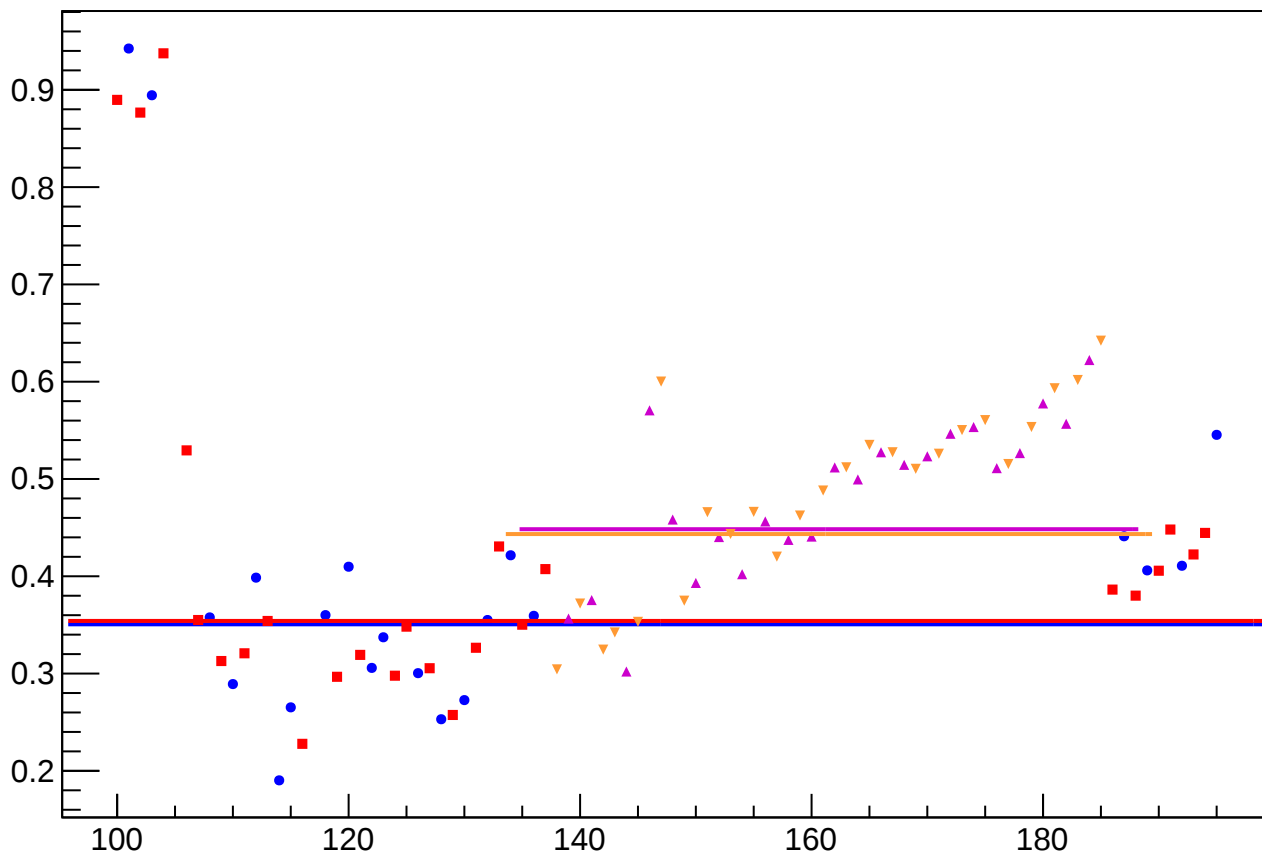
Right: 143.425 ± 0.000 $\chi^2/\text{NDF}: 10262689113.6/45$

In: 145.636 ± 0.000 $\chi^2/\text{NDF}: 3931331789.8/43$

Out: 145.185 ± 0.000 $\chi^2/\text{NDF}: 8091697709.6/49$

All: 145.399 ± 0.000 $\chi^2/\text{NDF}: 12038385917.0$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 1594769.2/20

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

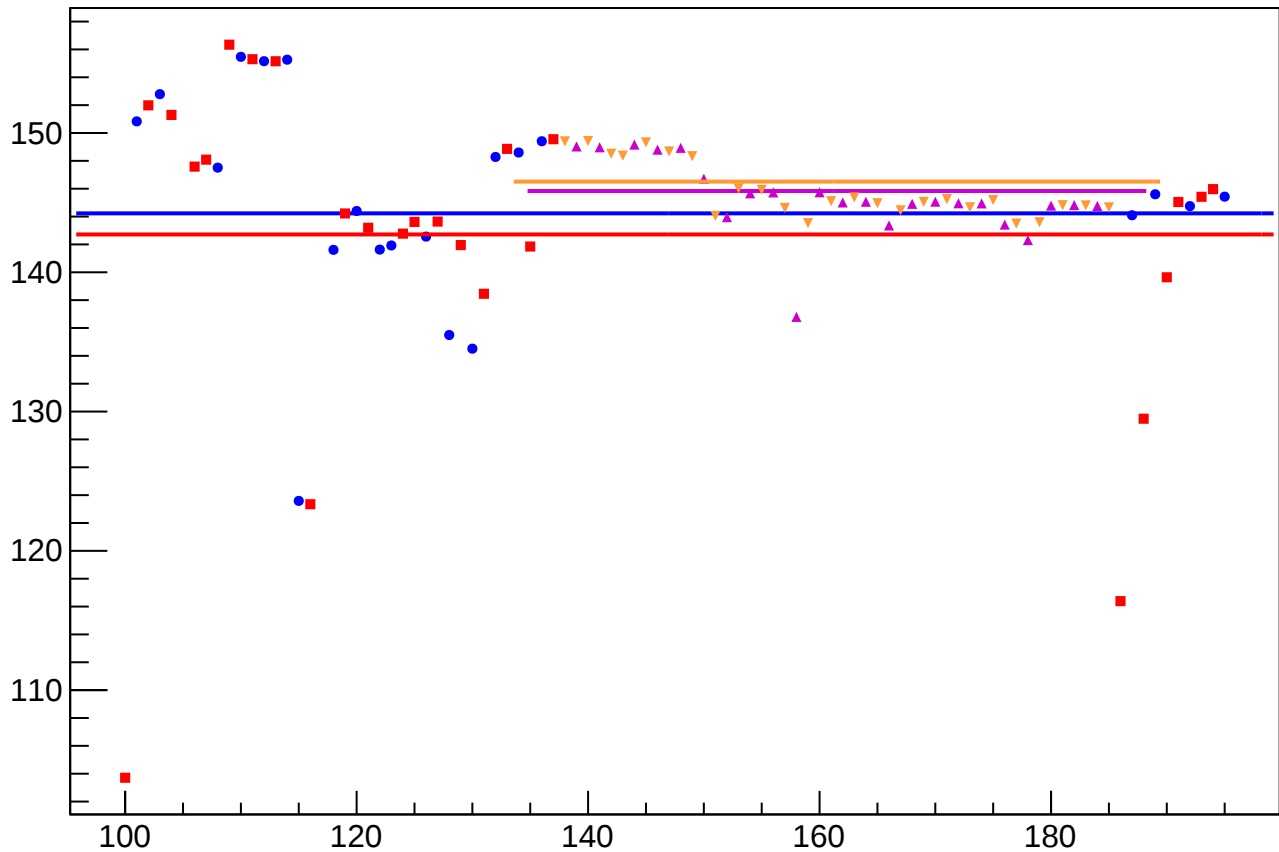
Right: 0.352+/-0.000 χ^2/NDF : 2970905.1/45

In: 0.406+/-0.000 χ^2/NDF :3389758.8/43

Out: 0.403+/-0.000 χ^2/NDF :3484707.3/49

All: 0.404+/-0.000 χ^2/NDF : 6875781.9/93

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.230 $\pm$ 0.000 χ^2 /NDF: 3291213645.0/20

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 142.715 $\pm$ 0.000 χ^2 /NDF: 6981920956.9/24

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

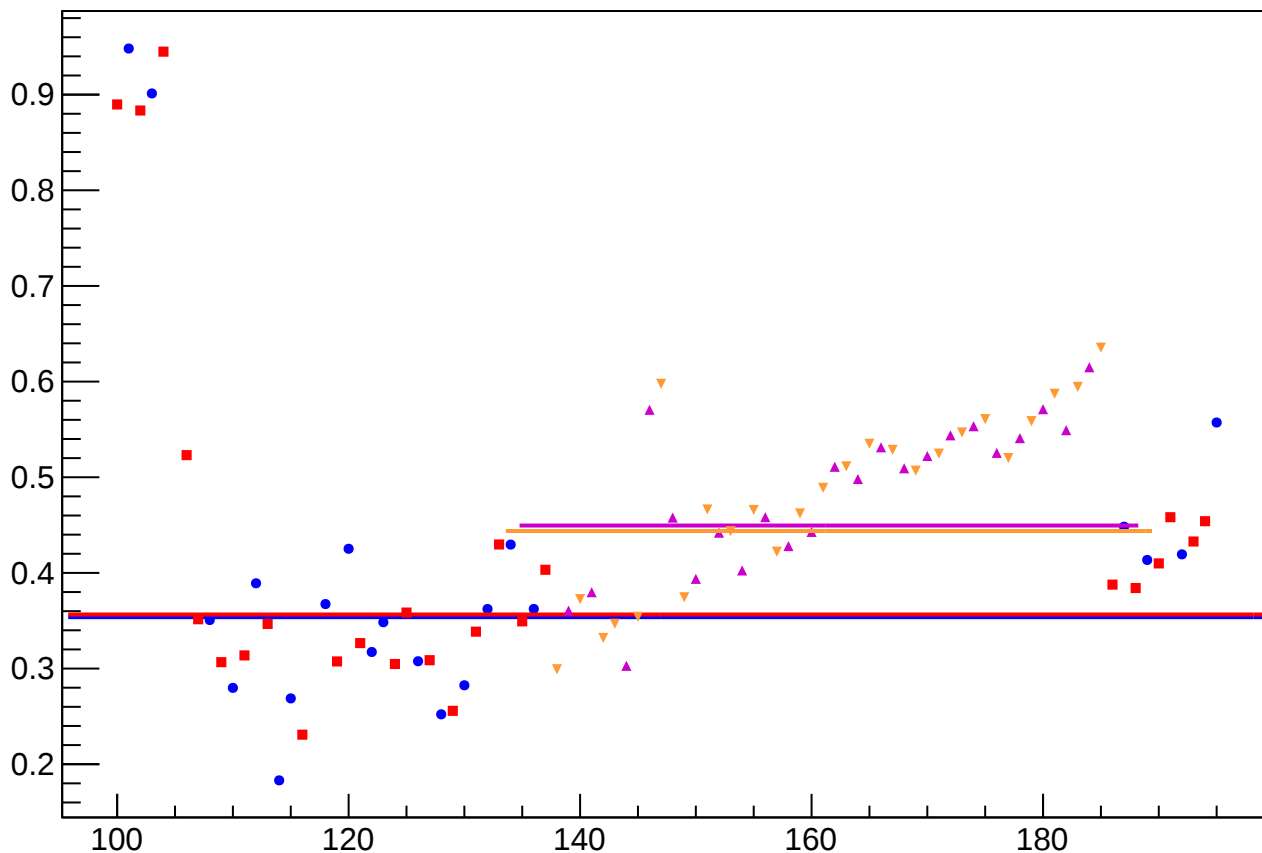
Right: 143.416 $\pm$ 0.000 χ^2 /NDF: 10348462266.7/45

In: 145.143 $\pm$ 0.000 χ^2 /NDF: 4070867415.5/43

Out: 144.801 $\pm$ 0.000 χ^2 /NDF: 7944801122.8/49

All: 144.963 $\pm$ 0.000 χ^2 /NDF: 12024377640.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.354+/-0.000 χ^2/NDF : 1631753.3/20

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

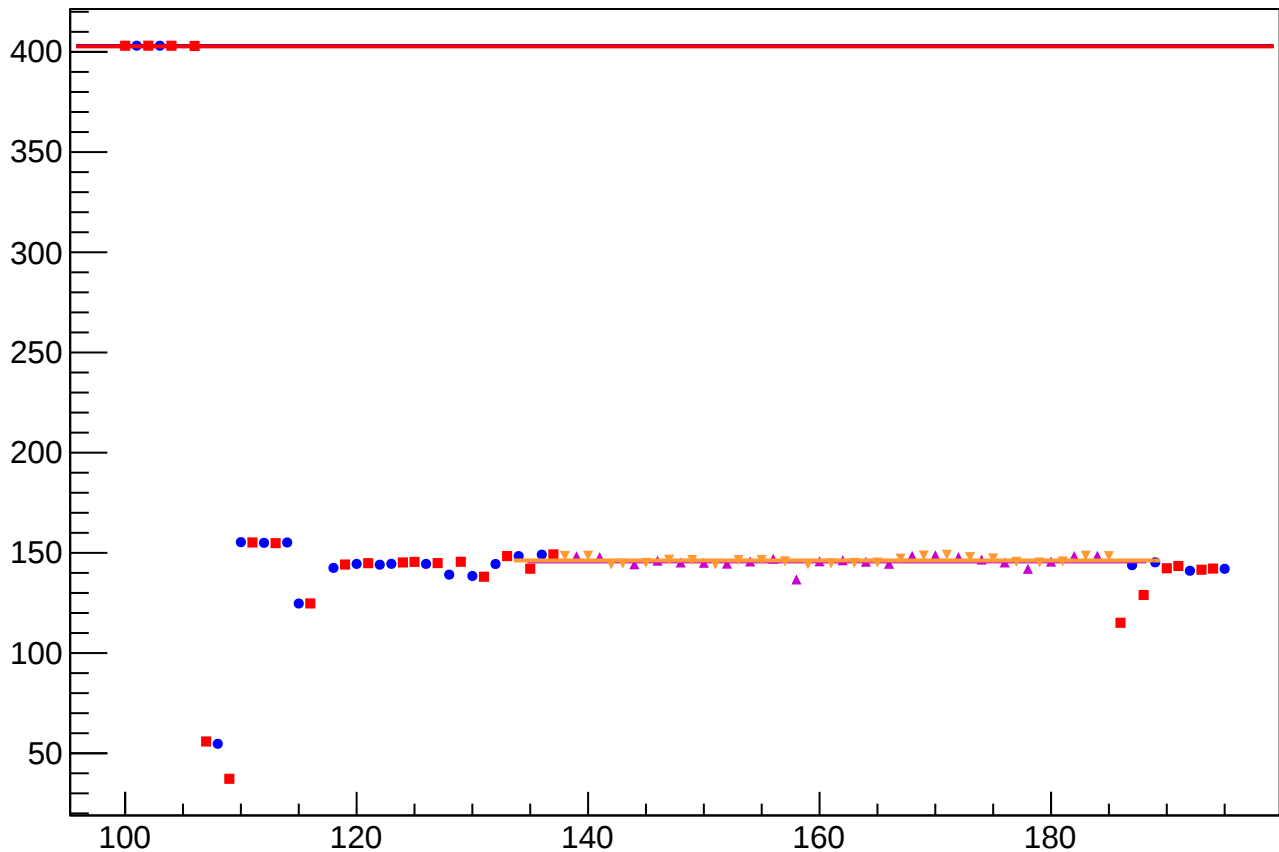
Right: 0.355+/-0.000 χ^2/NDF : 3018219.5/45

In: 0.408+/-0.000 χ^2/NDF :3362571.9/43

Out: 0.405+/-0.000 χ^2/NDF :3441123.9/49

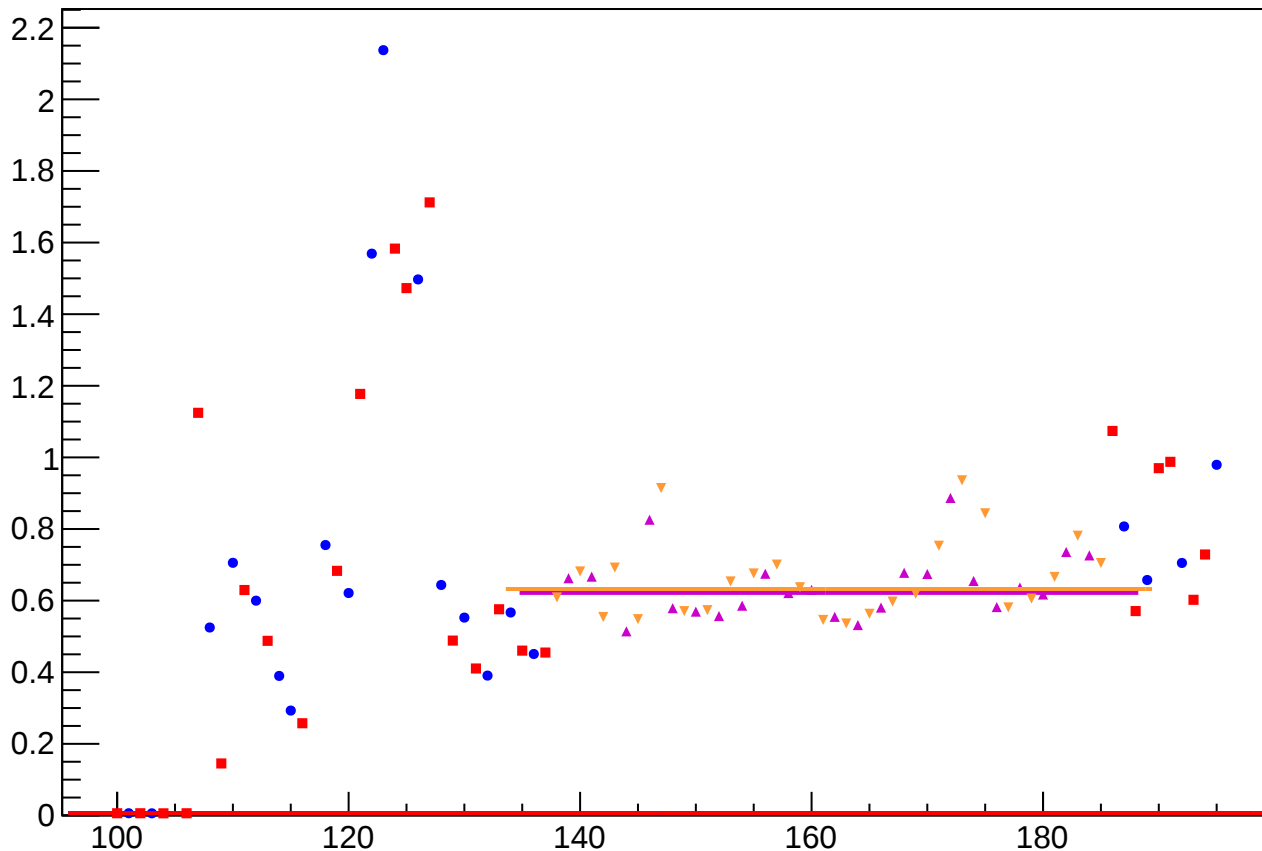
All: 0.406+/-0.000 χ^2/NDF : 6805763.0/93

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.931+/-0.000	χ^2/NDF : 1308037223905.6/20	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.836+/-0.000	χ^2/NDF : 4846293868470.6
Right Out: 402.753+/-0.000	χ^2/NDF : 3537728594084.9/24	In: 402.640+/-0.000	χ^2/NDF : 3639834605002.2/43
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.492+/-0.000	χ^2/NDF : 5895575404581.1/4
		All: 402.562+/-0.000	χ^2/NDF : 953577395826

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 12768100.1/20

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 14697107.1/24

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:399965.3/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1017722.4/47

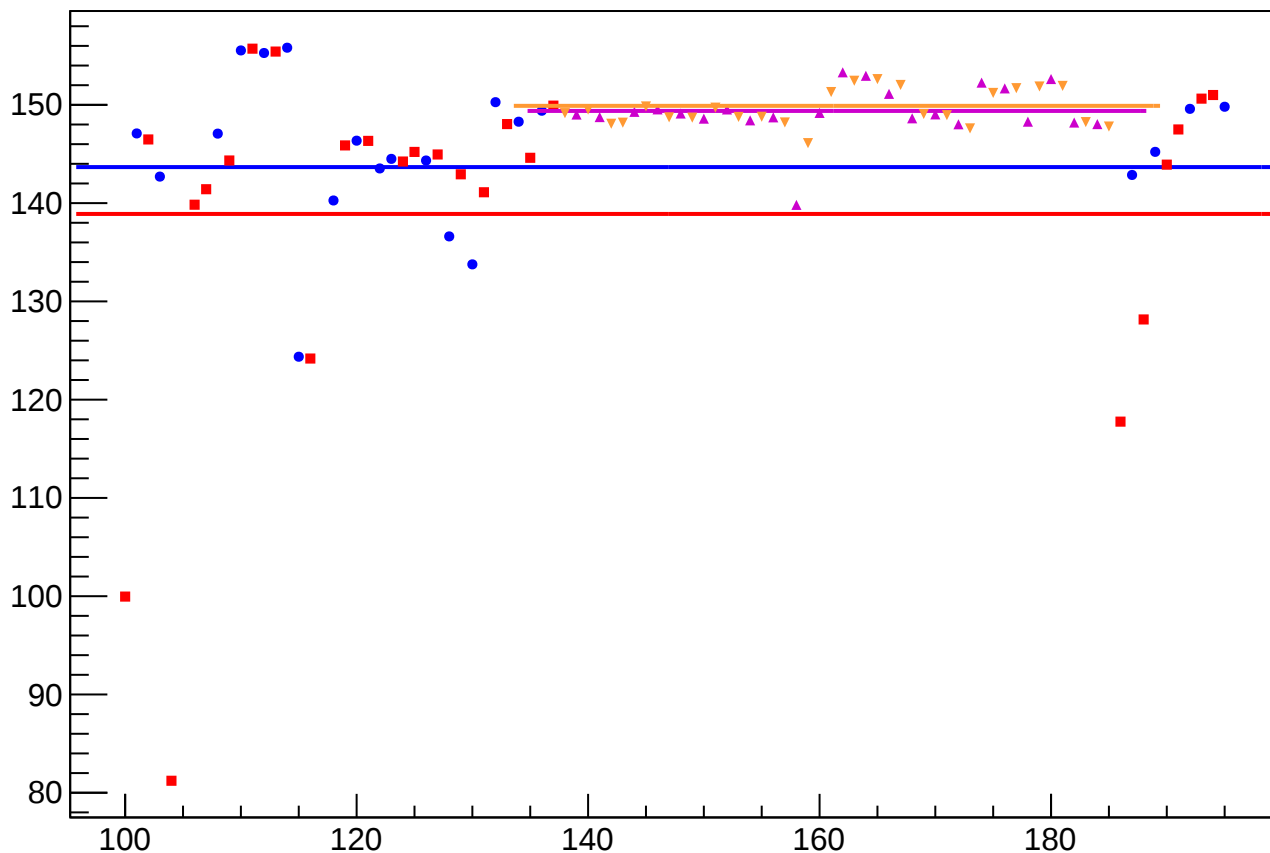
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 27465231.2/45

In: 0.007 $\pm$ 0.000 χ^2 /NDF:39851359.6/43

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:43386657.1/49

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 83238053.5/93

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 143.668 $\pm$ 0.000 χ^2 /NDF: 1135418212.4/20

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

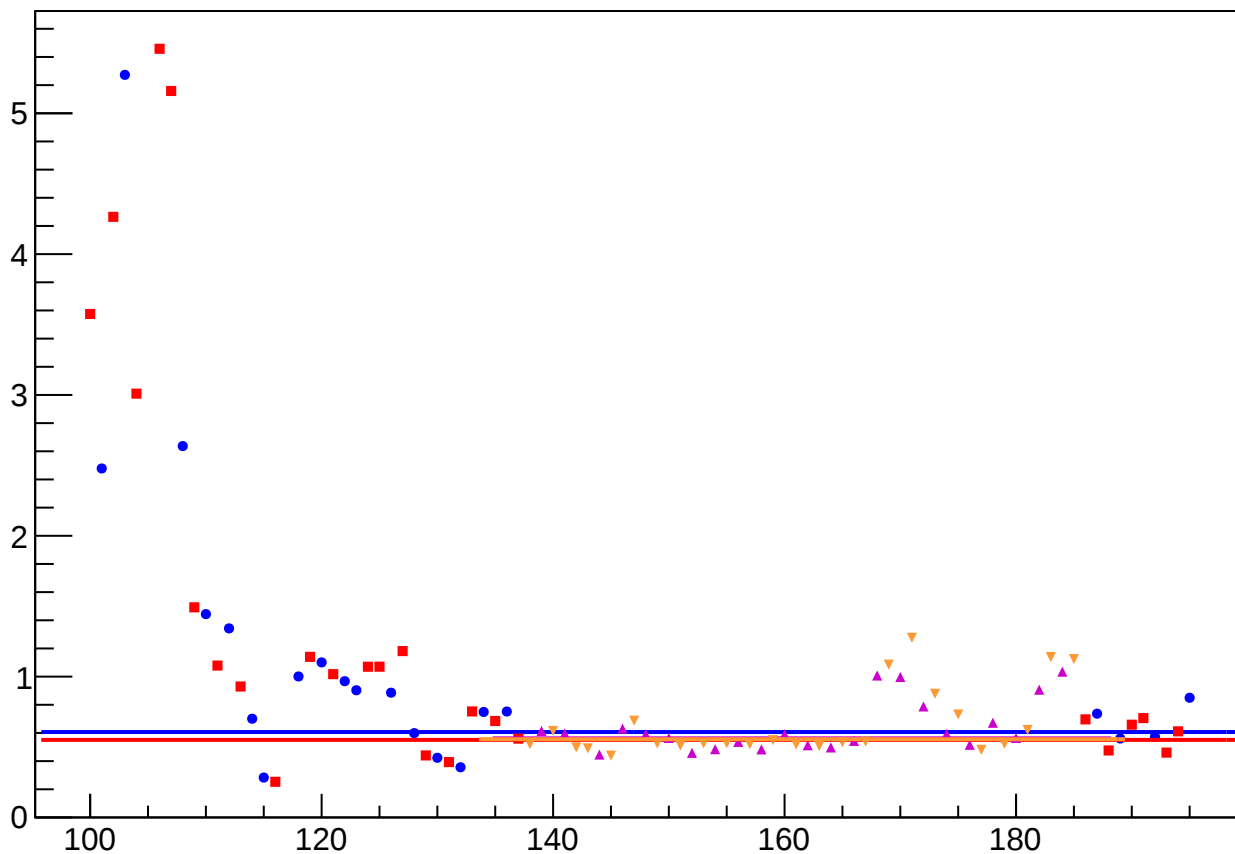
Right: 140.905 $\pm$ 0.000 χ^2 /NDF: 4047745267.4/45

In: 148.030 $\pm$ 0.000 χ^2 /NDF: 1935176390.3/43

Out: 146.771 $\pm$ 0.000 χ^2 /NDF: 4628774166.2/49

All: 147.358 $\pm$ 0.000 χ^2 /NDF: 6616356477.3

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.607 $\pm$ 0.000 χ^2 /NDF: 3661018.0/20

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

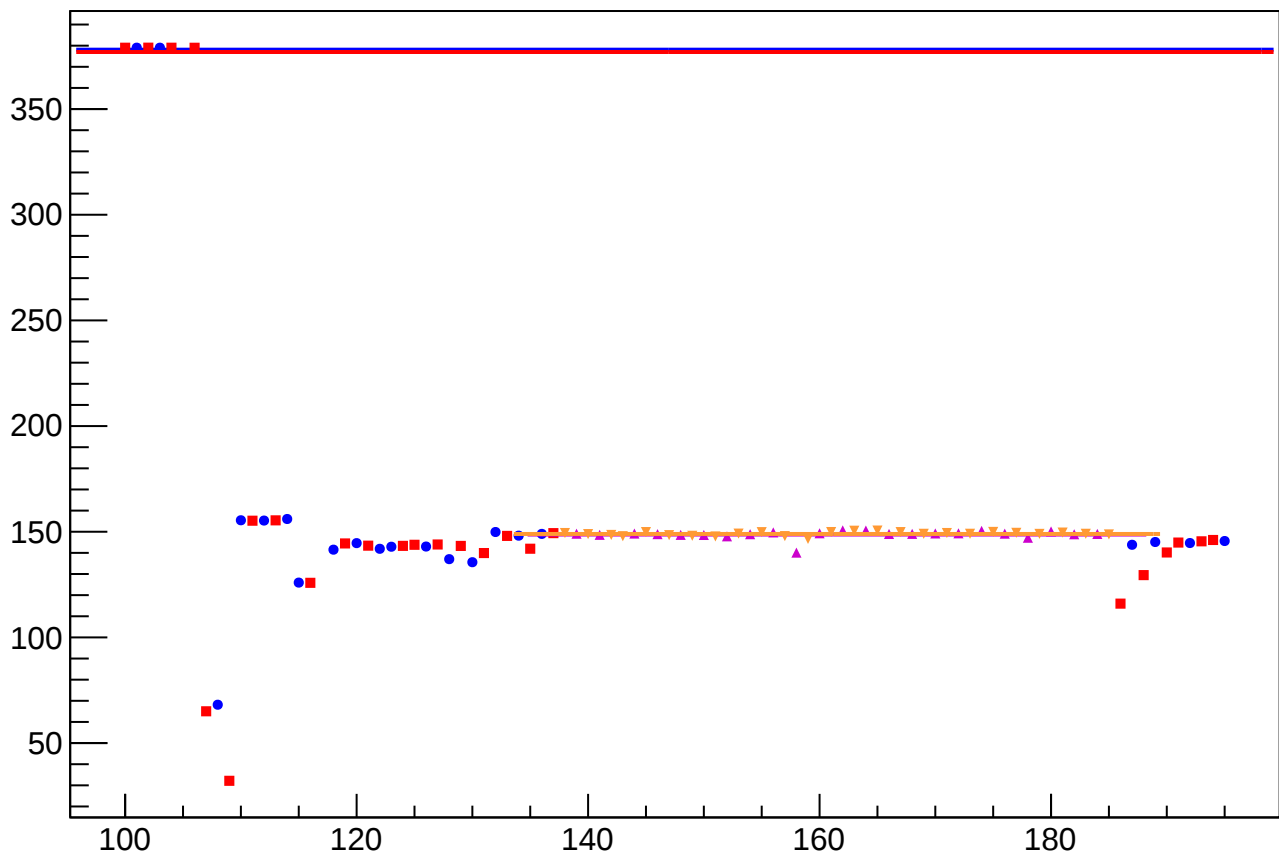
Right: 0.574 $\pm$ 0.000 χ^2 /NDF: 8523827.7/45

In: 0.572 $\pm$ 0.000 χ^2 /NDF:5011514.2/43

Out: 0.554 $\pm$ 0.000 χ^2 /NDF:6584260.0/49

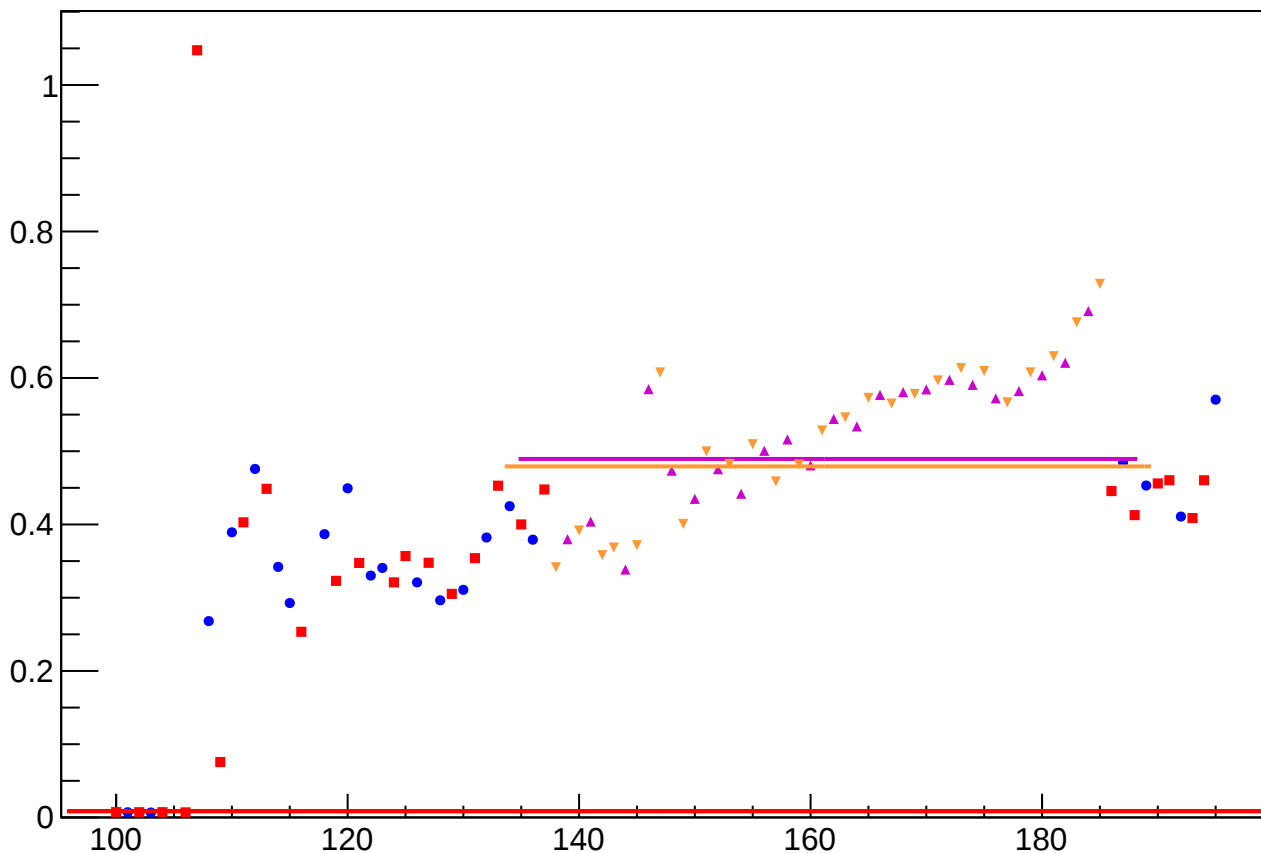
All: 0.563 $\pm$ 0.000 χ^2 /NDF: 11617736.2/93

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.102+/-0.000	χ^2/NDF : 3067551084367.6/20	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.521+/-0.000	χ^2/NDF : 12368851174465.1
Right Out: 377.011+/-0.000	χ^2/NDF : 9292846968660.0/24	In: 376.931+/-0.000	χ^2/NDF : 6649676201335.9/43
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.896+/-0.000	χ^2/NDF : 13159523394778.8
		All: 376.379+/-0.000	χ^2/NDF : 198168434119.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 14291398.4/20

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

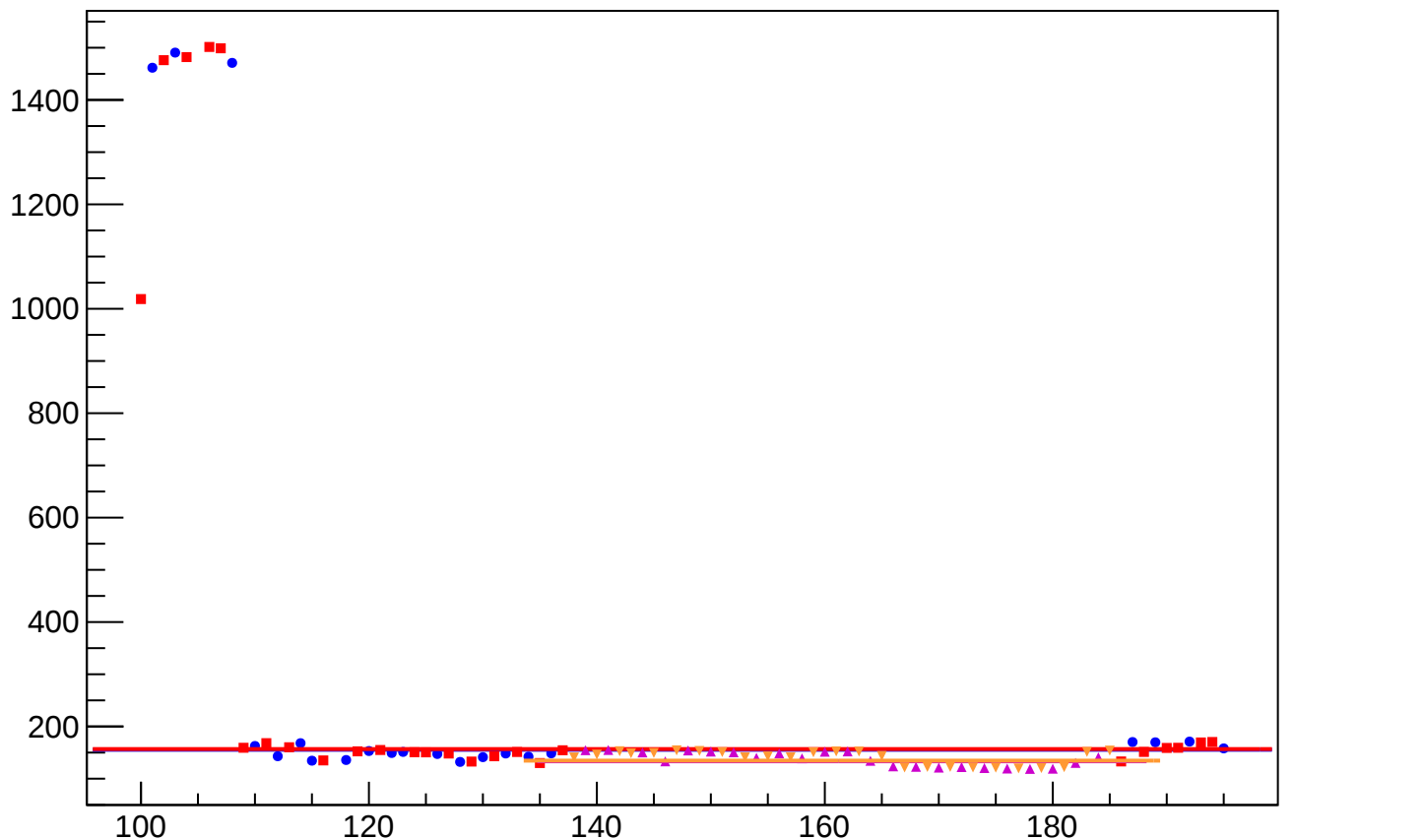
Right: 0.009+/-0.000 χ^2/NDF : 30162233.5/45

In: 0.011+/-0.000 χ^2/NDF :46852497.3/43

Out: 0.011+/-0.000 χ^2/NDF :50322481.1/49

All: 0.011+/-0.000 χ^2/NDF : 97174978.5/93

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.433+/-0.000 χ^2/NDF : 25406982137.0/20

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

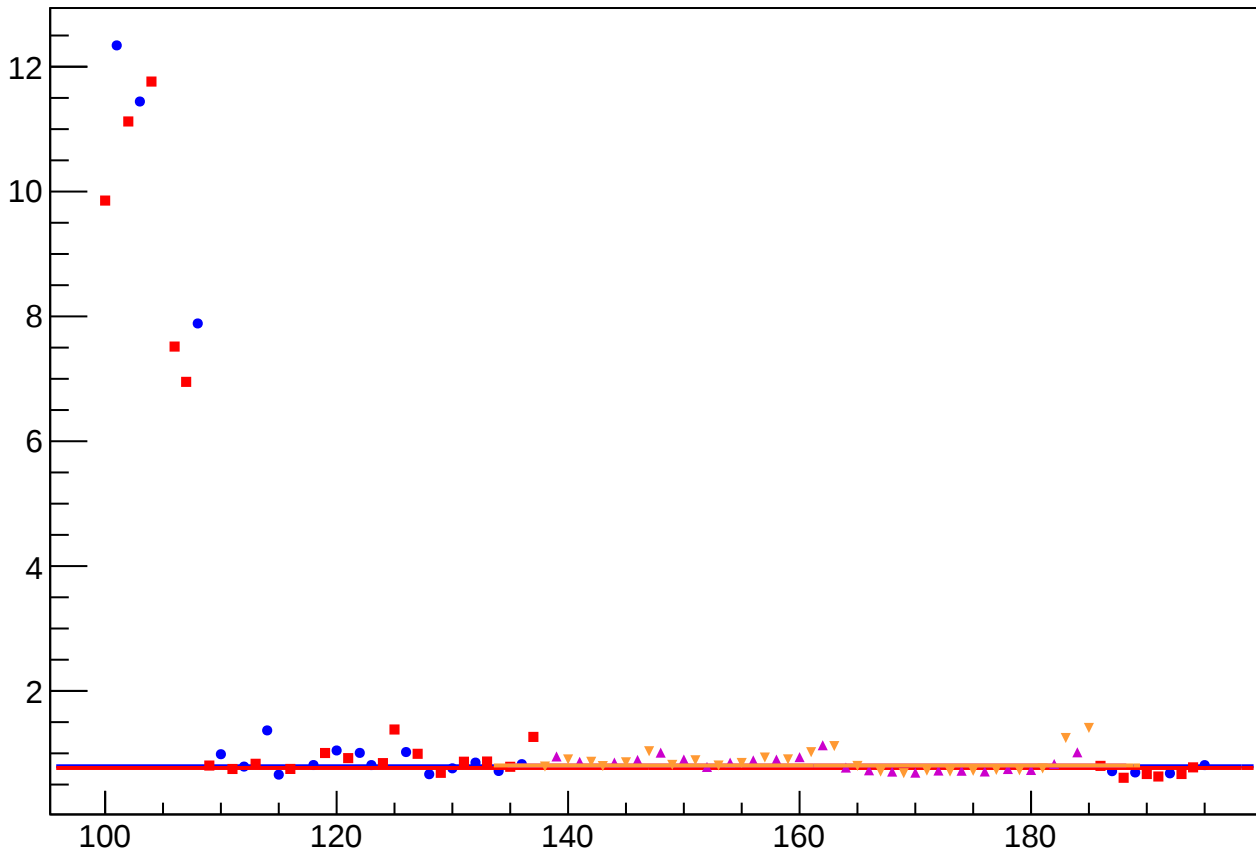
Right: 156.157+/-0.000 χ^2/NDF : 60032917292.3/45

In: 139.743+/-0.000 χ^2/NDF : 32929266399.1/43

Out: 141.926+/-0.000 χ^2/NDF : 42870046808.0/49

All: 140.891+/-0.000 χ^2/NDF : 75879578001.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.793+/-0.000 χ^2/NDF : 2754068.9/20

Left Out: 0.806+/-0.000 χ^2/NDF : 690578.5/24

Right Out: 0.766+/-0.000 χ^2/NDF : 3121270.8/24

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1171131.4/47

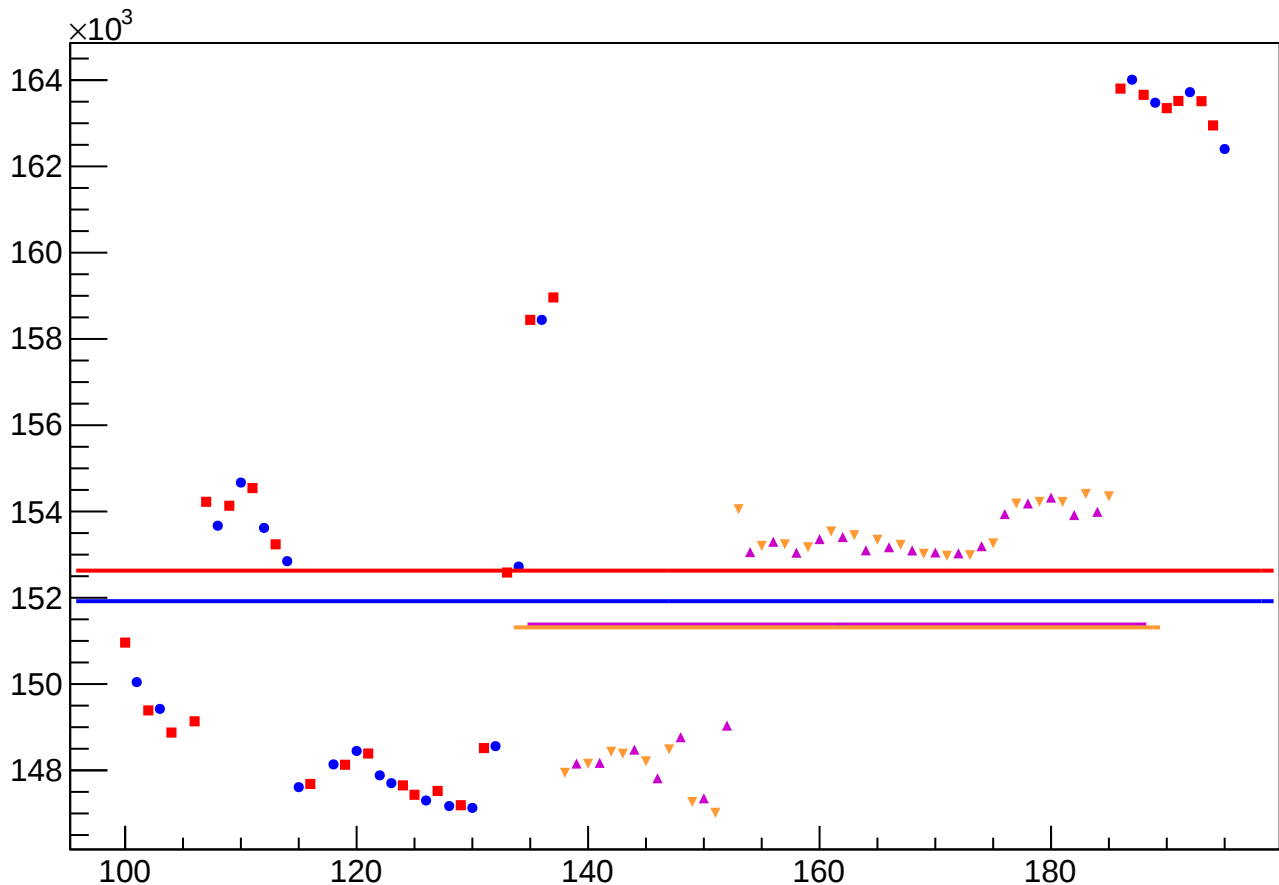
Right: 0.778+/-0.000 χ^2/NDF : 5882877.6/45

In: 0.801+/-0.000 χ^2/NDF : 3236485.3/43

Out: 0.793+/-0.000 χ^2/NDF : 3837454.5/49

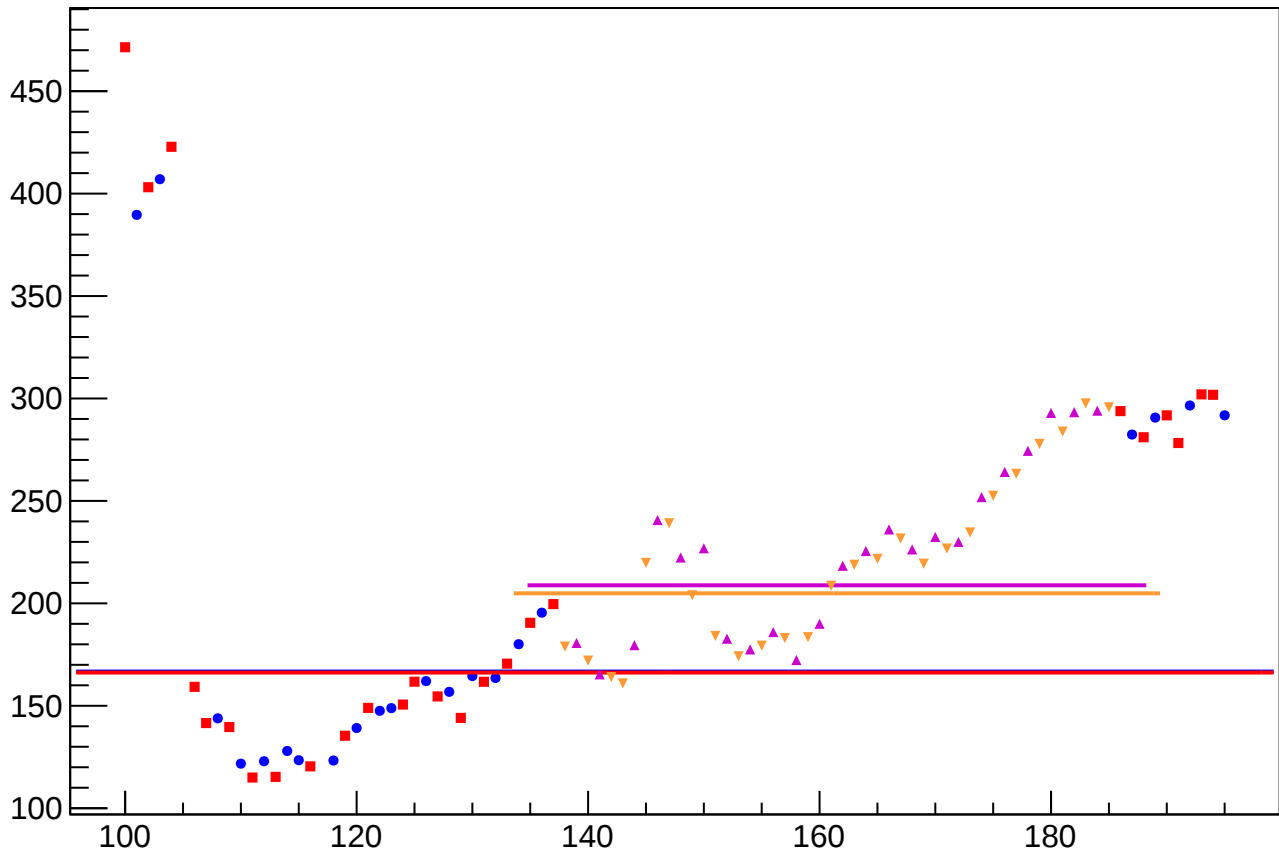
All: 0.797+/-0.000 χ^2/NDF : 7076411.6/93

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 151920.891 $\pm$ 0.060	χ^2 /NDF: 7209390980.2/20	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: 152299.751 $\pm$ 0.041	χ^2 /NDF: 15929628031.6
Right Out: 152629.206 $\pm$ 0.056	χ^2 /NDF: 8645448338.1/24	In: 151608.424 $\pm$ 0.039	χ^2 /NDF: 9620368786.0/43
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: 151752.875 $\pm$ 0.027	χ^2 /NDF: 217610165

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 166.707 $\pm$ 0.042 χ^2 /NDF: 2123682.7/20

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

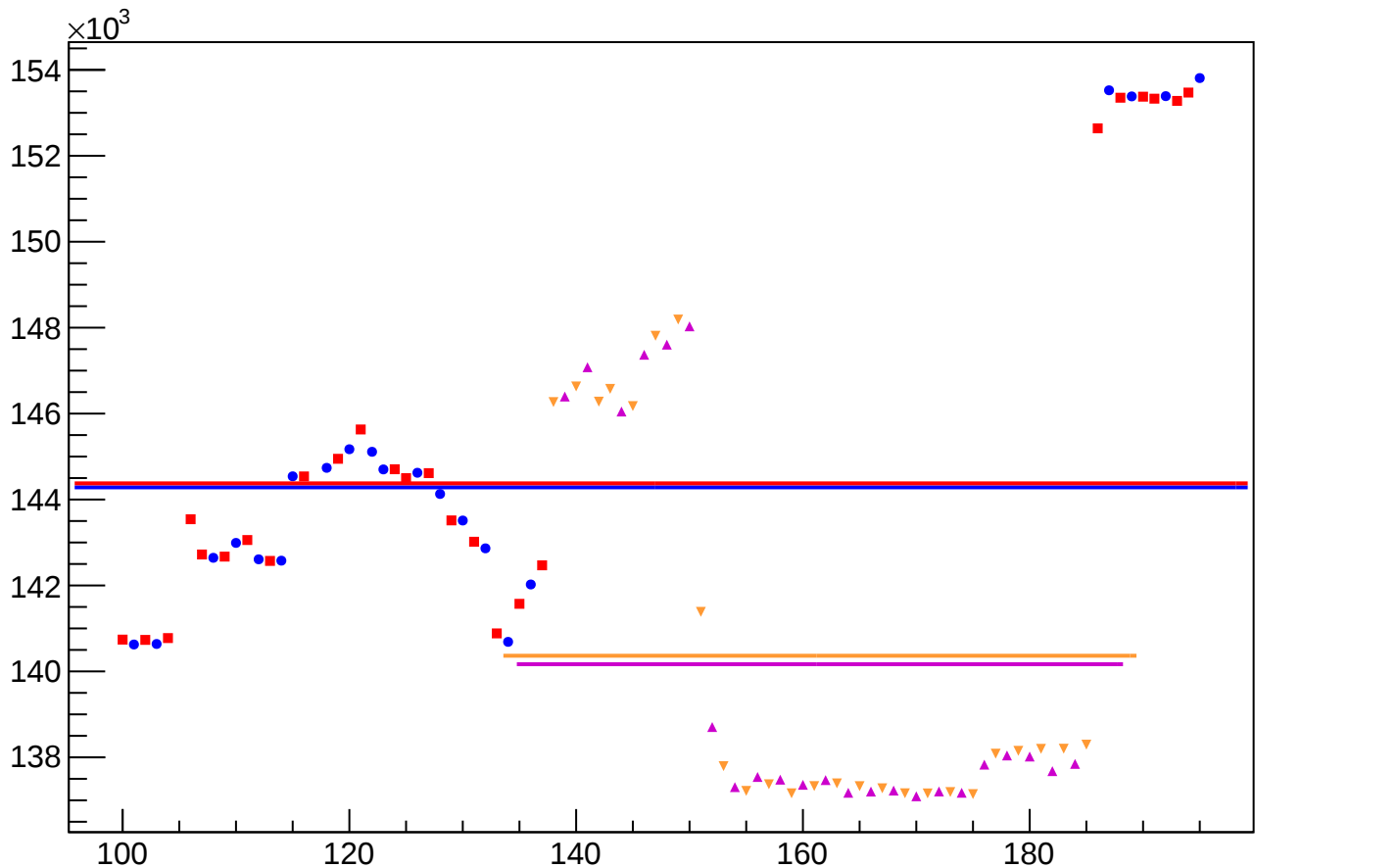
Right: 166.455 $\pm$ 0.029 χ^2 /NDF: 4773215.8/45

In: 191.042 $\pm$ 0.028 χ^2 /NDF: 3696722.7/43

Out: 188.209 $\pm$ 0.026 χ^2 /NDF: 4250402.2/49

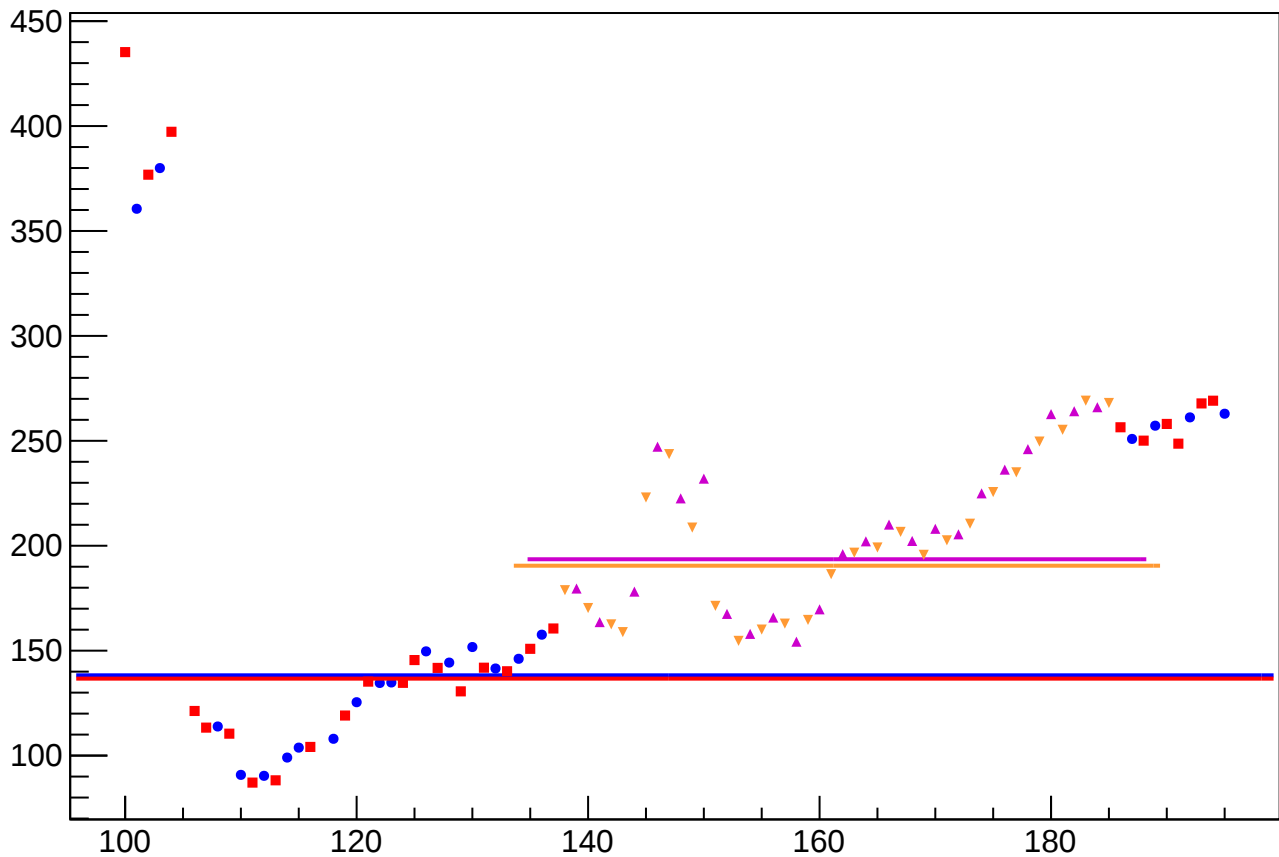
All: 189.542 $\pm$ 0.019 χ^2 /NDF: 7952735.1/93

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 144283.444 $\pm$ 0.050	χ^2 /NDF: 3792354885.3/20	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: 144333.859 $\pm$ 0.034	χ^2 /NDF: 8934525758.3
Right Out: 144376.489 $\pm$ 0.046	χ^2 /NDF: 5140324673.2/24	In: 142100.933 $\pm$ 0.035	χ^2 /NDF: 15356816526.5/4
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 142320.792 $\pm$ 0.032	χ^2 /NDF: 17656144391.5
		All: 142218.025 $\pm$ 0.024	χ^2 /NDF: 330345273

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 138.255 $\pm$ 0.036 χ^2 /NDF: 2578551.7/20

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

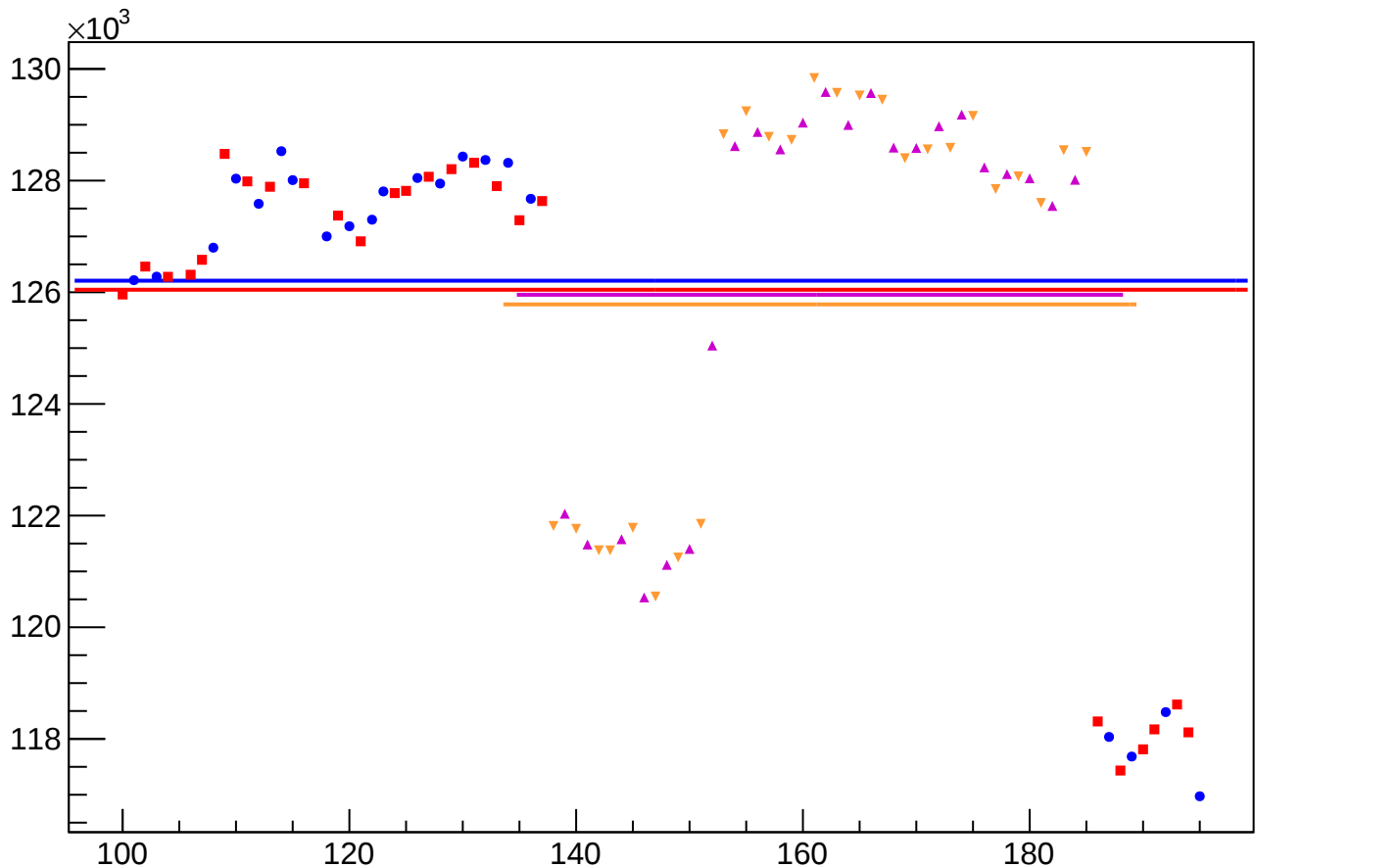
Right: 137.398 $\pm$ 0.024 χ^2 /NDF: 5763718.7/45

In: 167.576 $\pm$ 0.024 χ^2 /NDF:4818643.6/43

Out: 164.246 $\pm$ 0.023 χ^2 /NDF:5515531.7/49

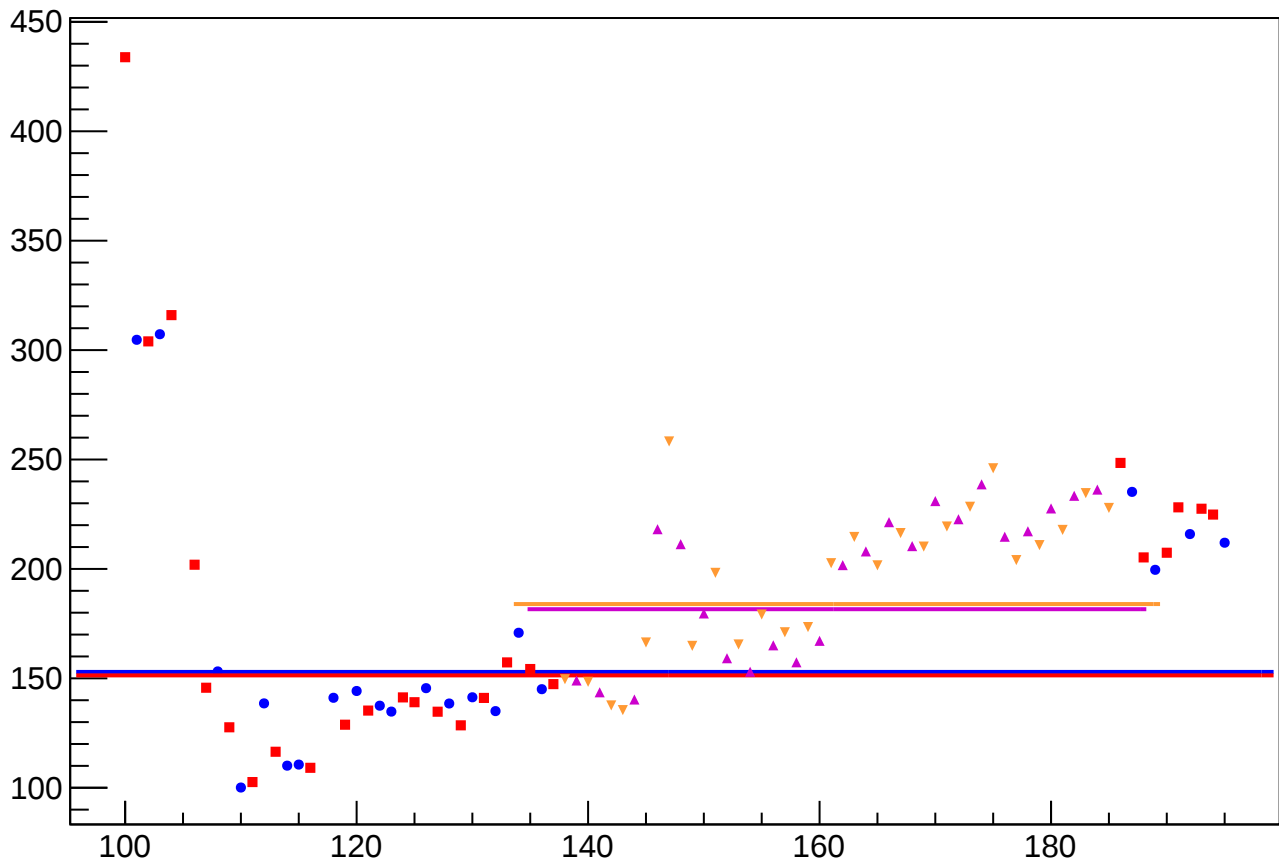
All: 165.803 $\pm$ 0.017 χ^2 /NDF: 10344071.9/93

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 126207.225 $\pm$ 0.054	χ^2/NDF : 4524441120.9/20	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/20
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 126119.984 $\pm$ 0.036	χ^2/NDF : 10142825163.0/24
Right Out: 126045.288 $\pm$ 0.050	χ^2/NDF : 5613470925.3/24	In: 126059.072 $\pm$ 0.034	χ^2/NDF : 10341492562.3/24
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: 125975.217 $\pm$ 0.024	χ^2/NDF : 227117958.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 152.931+/-0.038 χ^2/NDF : 1268941.5/20

Left Out: 183.947+/-0.031 χ^2/NDF : 1123194.0/24

Right Out: 151.350+/-0.035 χ^2/NDF : 1777051.5/24

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

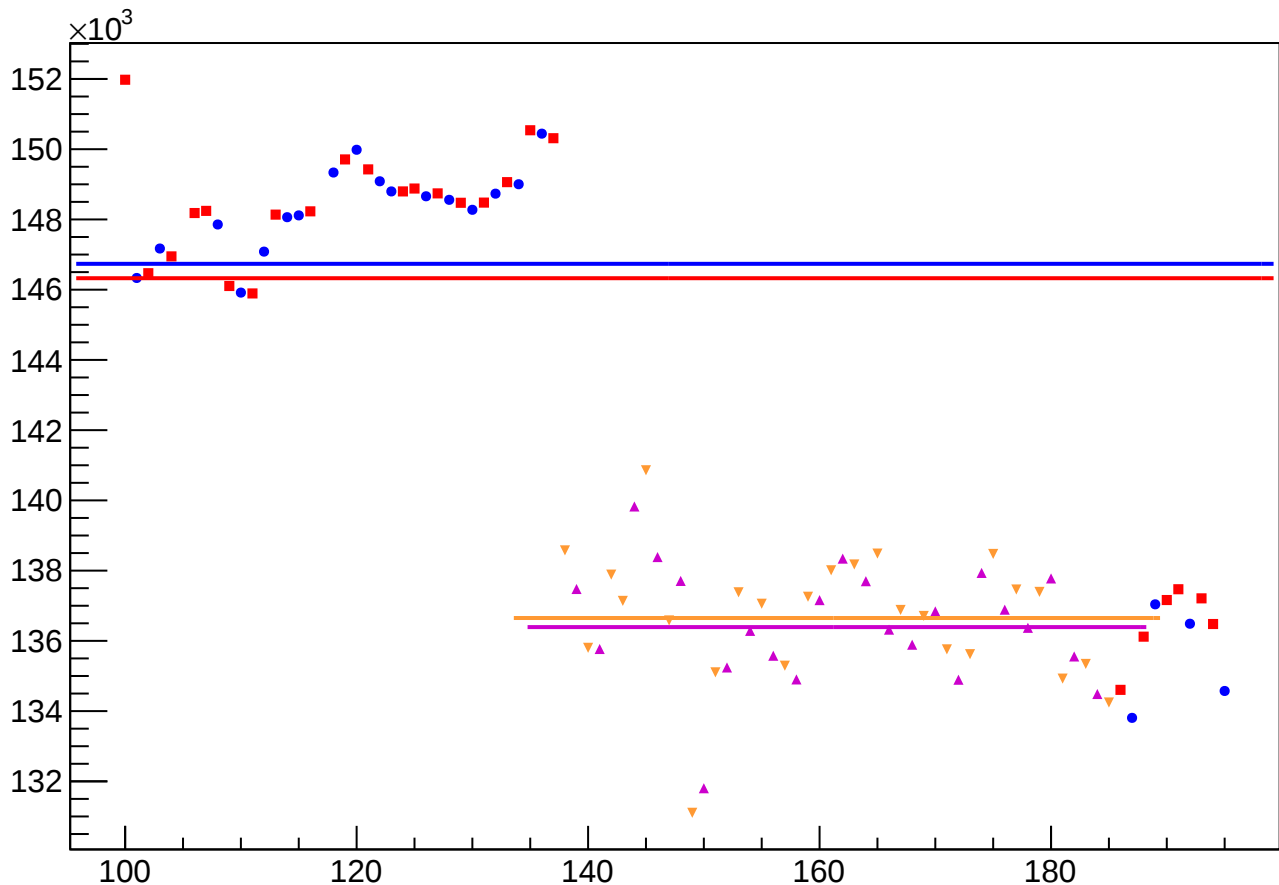
Right: 152.079+/-0.026 χ^2/NDF : 3046930.2/45

In: 169.811+/-0.024 χ^2/NDF : 2708997.0/43

Out: 169.596+/-0.023 χ^2/NDF : 3383410.6/49

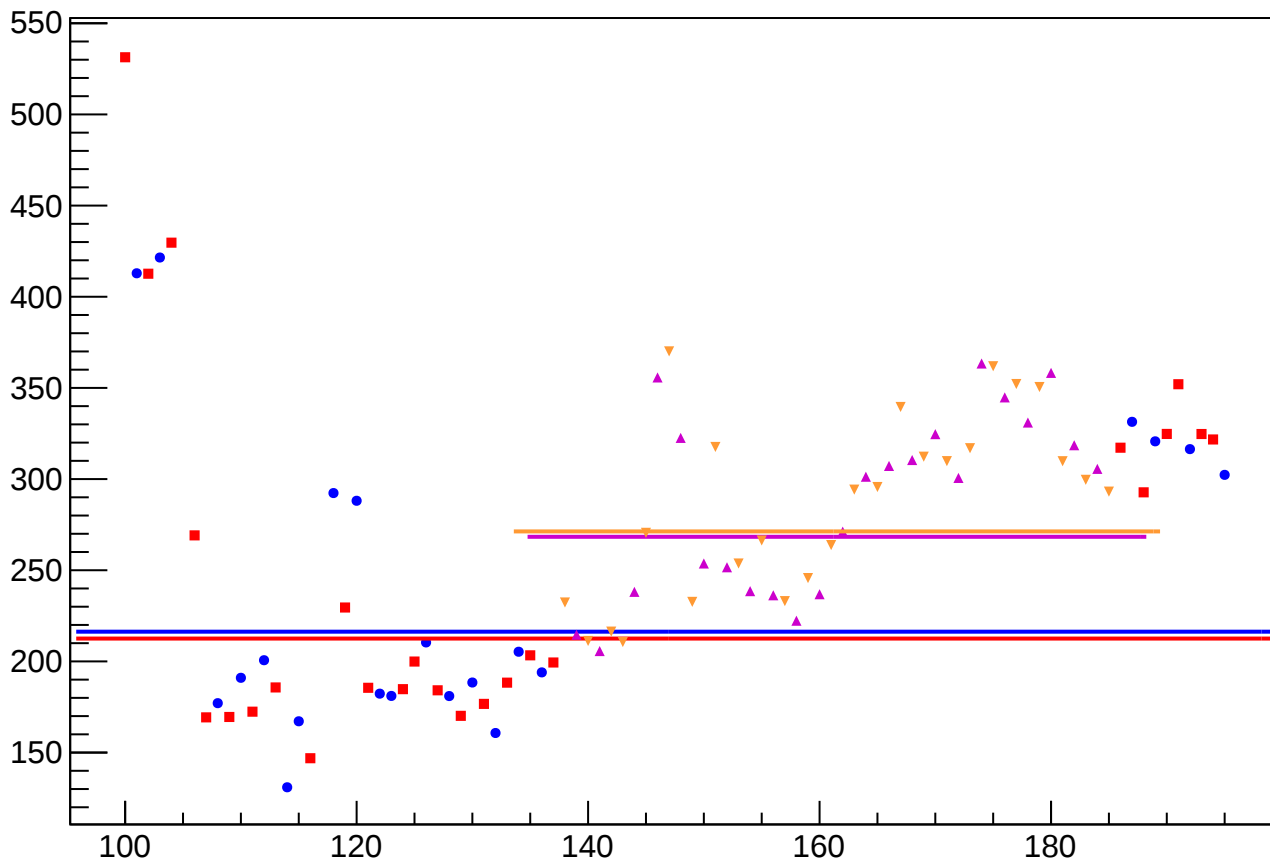
All: 169.699+/-0.017 χ^2/NDF : 6092448.3/93

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 146736.194 $\pm$ 0.076	χ^2 /NDF: 3633507112.0/20	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: 146513.094 $\pm$ 0.051	χ^2 /NDF: 7962554252.5/4
Right Out: 146326.344 $\pm$ 0.070	χ^2 /NDF: 4313337231.1/24	In: 140817.422 $\pm$ 0.050	χ^2 /NDF: 14854419839.0/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 141116.772 $\pm$ 0.047	χ^2 /NDF: 15589681715.2/4
		All: 140974.716 $\pm$ 0.034	χ^2 /NDF: 304630116.0/4

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 216.304 $\pm$ 0.054 χ^2 /NDF: 1460476.2/20

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

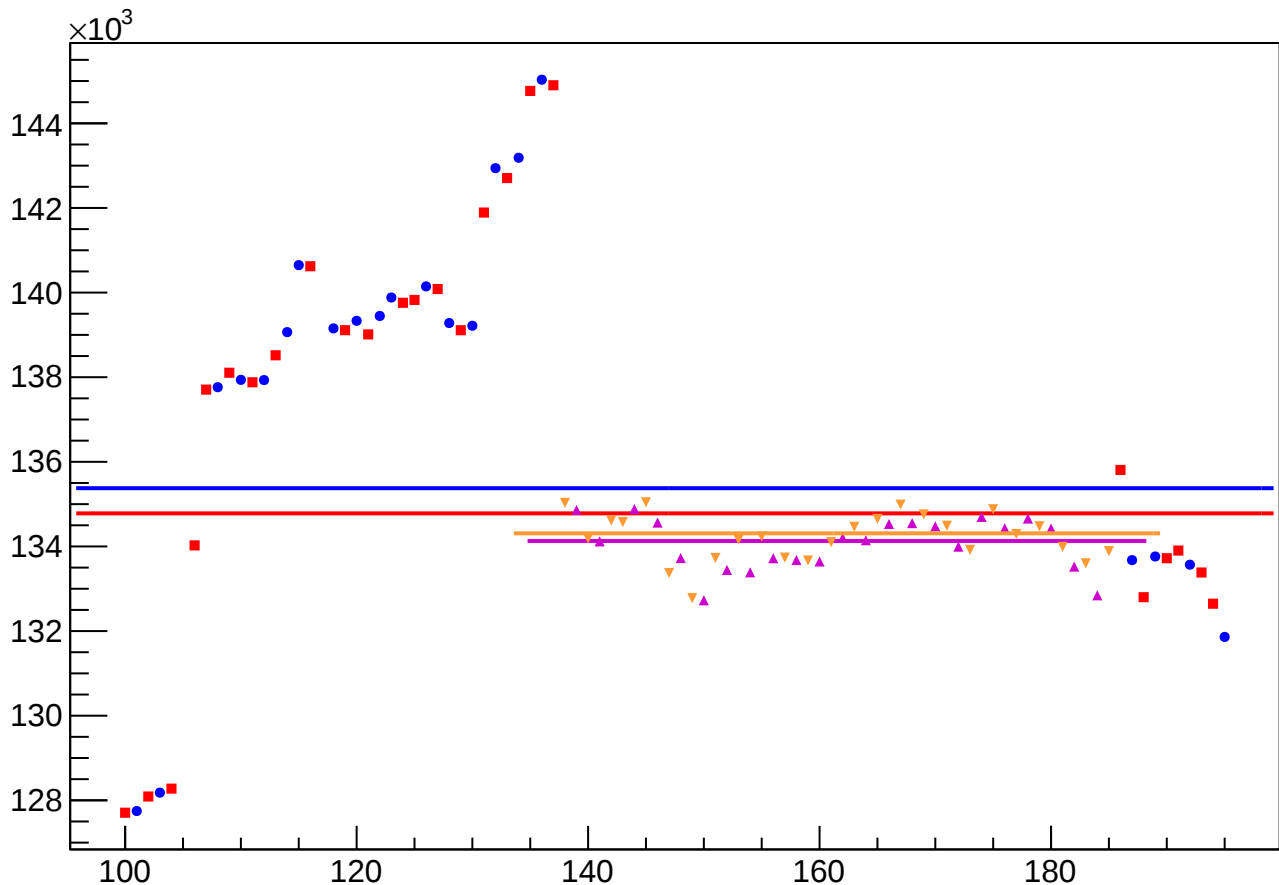
Right: 214.248 $\pm$ 0.036 χ^2 /NDF: 3190627.8/45

In: 246.081 $\pm$ 0.035 χ^2 /NDF:3070310.4/43

Out: 244.170 $\pm$ 0.034 χ^2 /NDF:3555328.9/49

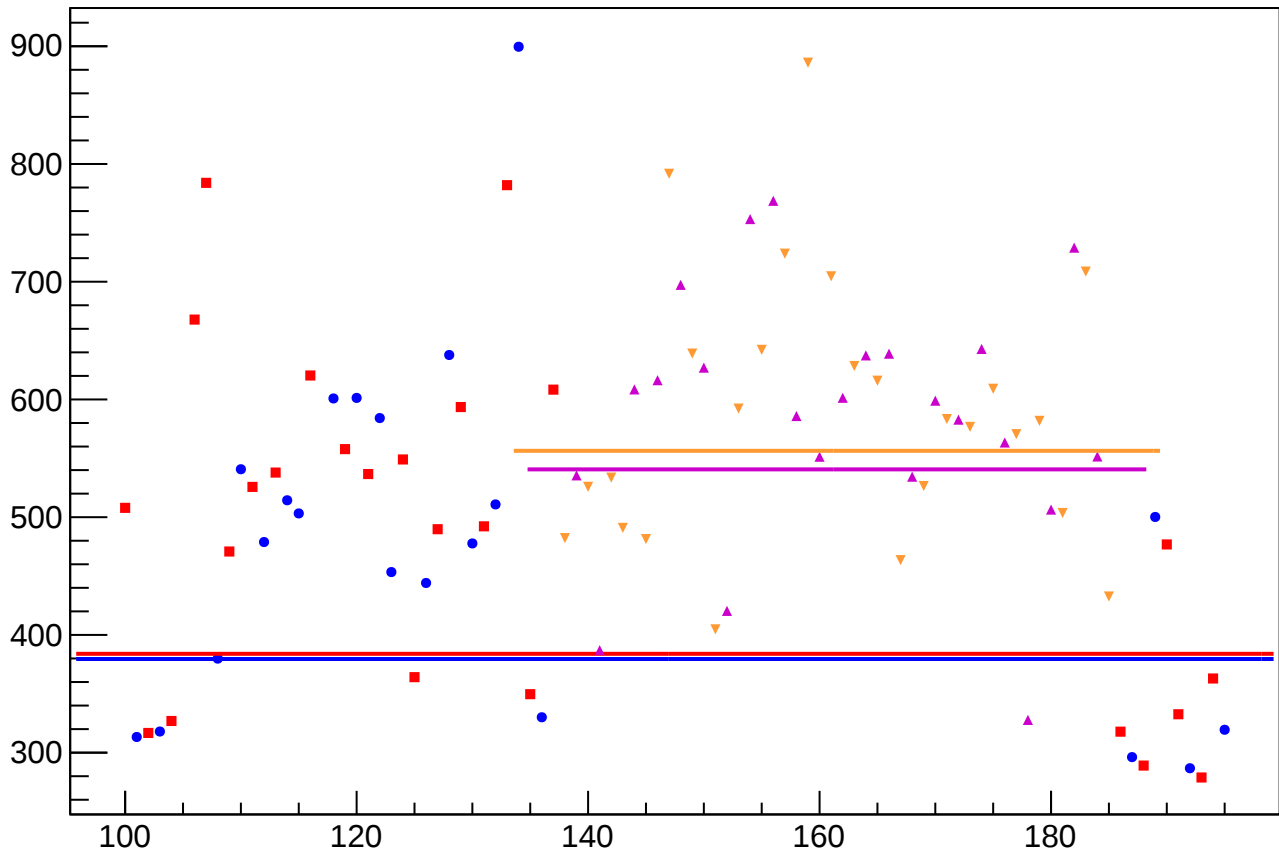
All: 245.077 $\pm$ 0.024 χ^2 /NDF: 6627179.8/93

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 135376.977 $\pm$ 0.141	χ^2 /NDF: 1657523533.8/20	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: 135065.496 $\pm$ 0.097	χ^2 /NDF: 2861441941.3/
Right Out: 134781.712 $\pm$ 0.134	χ^2 /NDF: 1194532988.8/24	In: 134758.910 $\pm$ 0.100	χ^2 /NDF: 1712127135.4/43
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: 134652.576 $\pm$ 0.069	χ^2 /NDF: 293034262

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 379.549 $\pm$ 0.099 χ^2 /NDF: 1123923.6/20

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

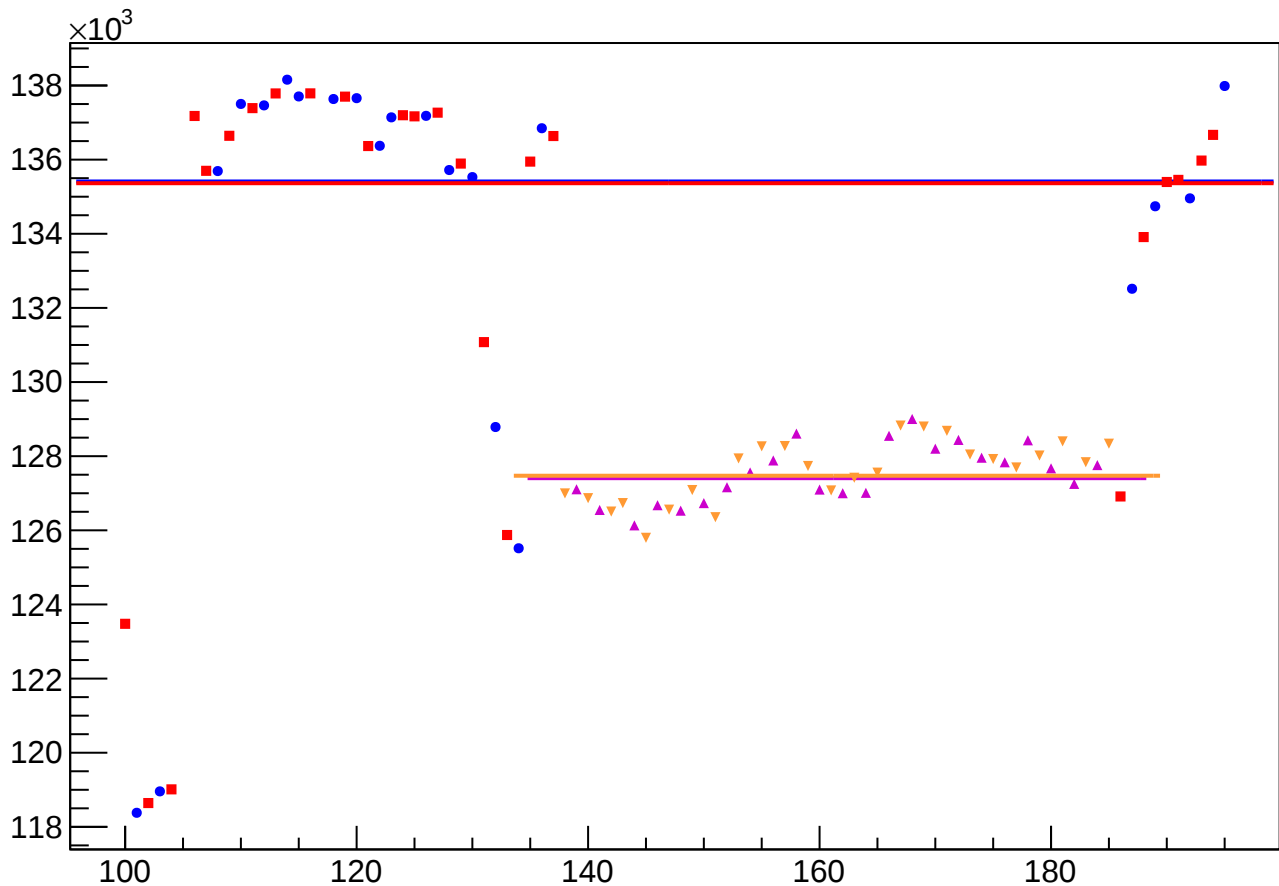
Right: 381.856 $\pm$ 0.069 χ^2 /NDF: 2617129.7/45

In: 459.261 $\pm$ 0.071 χ^2 /NDF:3832648.5/43

Out: 467.391 $\pm$ 0.068 χ^2 /NDF:4092750.0/49

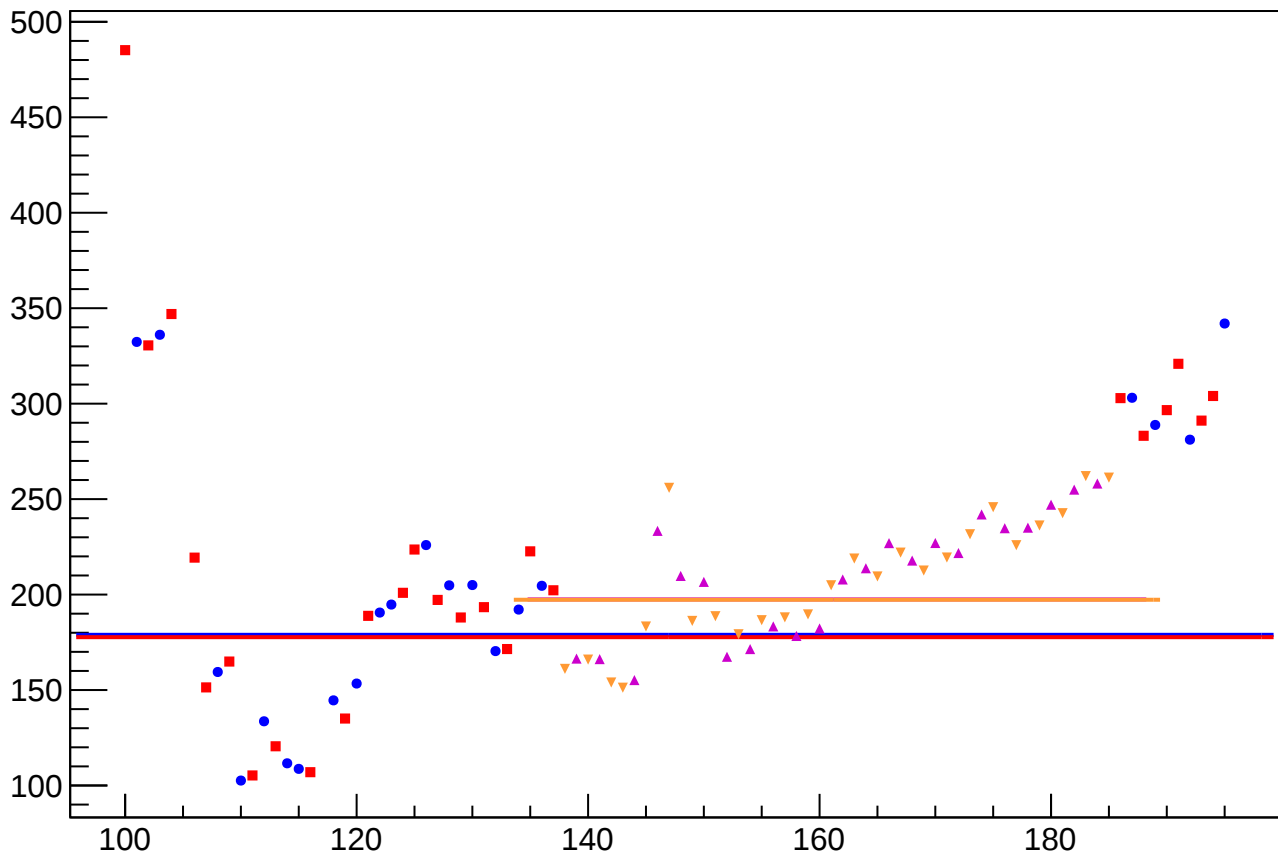
All: 463.471 $\pm$ 0.049 χ^2 /NDF: 7932259.8/93

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135410.617 $\pm$ 0.065	χ^2 /NDF: 4643271107.0/20	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: 135385.533 $\pm$ 0.044	χ^2 /NDF: 9714548818.6/20
Right Out: 135364.035 $\pm$ 0.060	χ^2 /NDF: 5070997548.0/24	In: 130282.748 $\pm$ 0.039	χ^2 /NDF: 14753865927.9/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130475.237 $\pm$ 0.037	χ^2 /NDF: 16167739568.3/20
		All: 130383.655 $\pm$ 0.027	χ^2 /NDF: 309345667.0/20

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 178.922 $\pm$ 0.046 χ^2 /NDF: 2120124.0/20

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

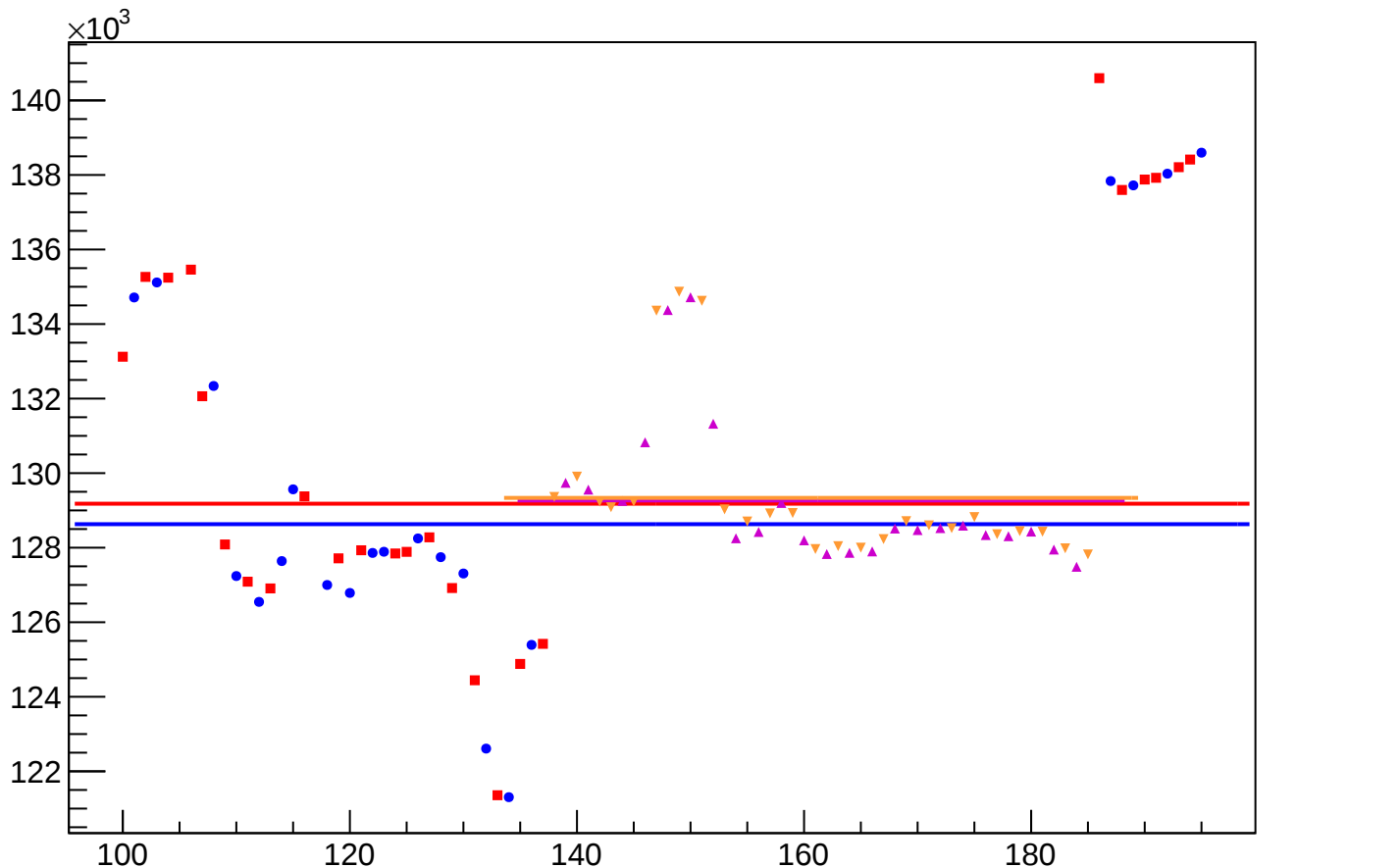
Right: 178.257 $\pm$ 0.031 χ^2 /NDF: 4752174.7/45

In: 190.806 $\pm$ 0.027 χ^2 /NDF: 3017411.2/43

Out: 189.831 $\pm$ 0.026 χ^2 /NDF: 3616864.5/49

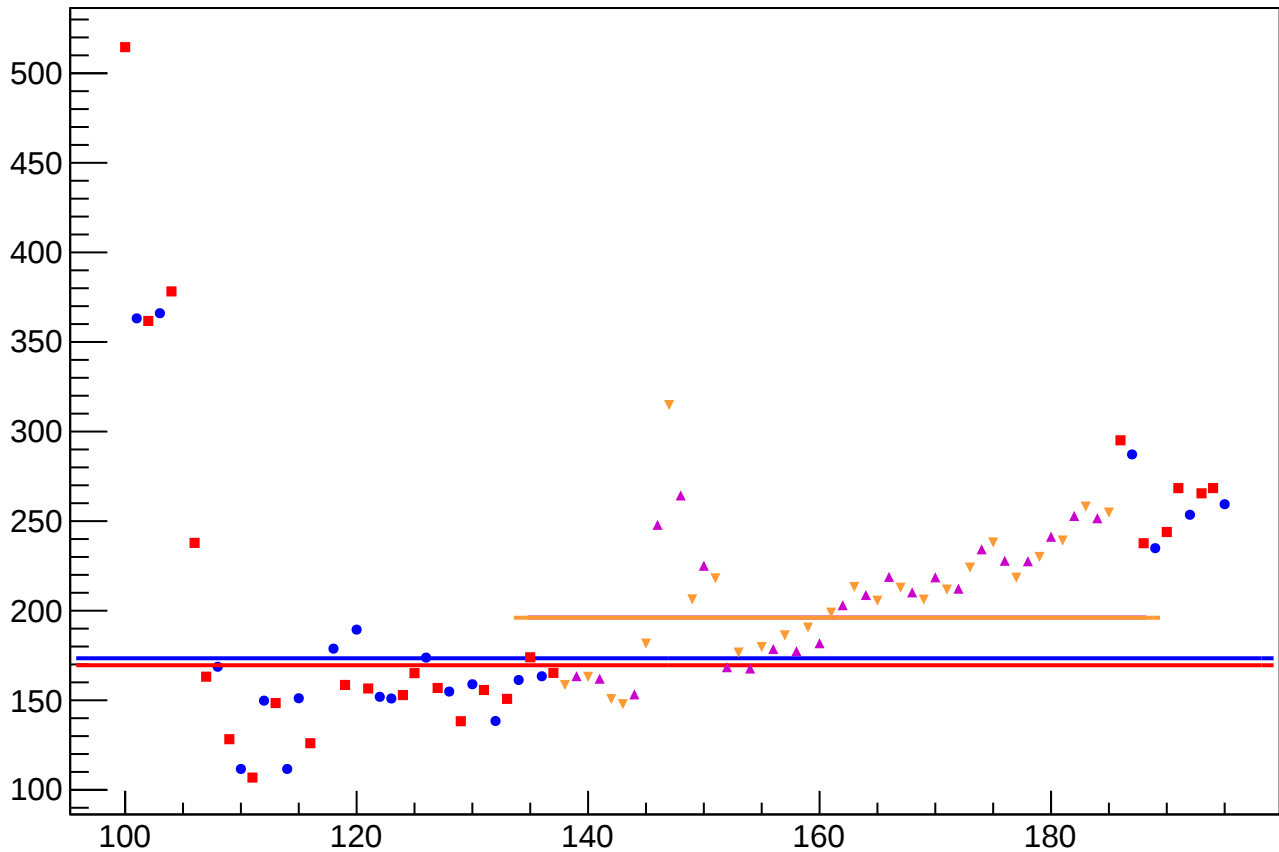
All: 190.295 $\pm$ 0.019 χ^2 /NDF: 6634941.1/93

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 128630.777 $\pm$ 0.062	χ^2 /NDF: 5582733697.9/20	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: 128929.752 $\pm$ 0.042	χ^2 /NDF: 12707786112.0/4
Right Out: 129179.866 $\pm$ 0.056	χ^2 /NDF: 7081825606.0/24	In: 129025.745 $\pm$ 0.038	χ^2 /NDF: 6862654872.4/4
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: 129155.630 $\pm$ 0.026	χ^2 /NDF: 154222076

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 173.446 $\pm$ 0.044 χ^2 /NDF: 1489906.6/20

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF:975710.9/24

Right Out: 169.551 $\pm$ 0.040 χ^2 /NDF: 2068920.4/24

Left In: 196.186 $\pm$ 0.034 χ^2 /NDF:898058.0/22

Left: 196.130 $\pm$ 0.024 χ^2 /NDF: 1873774.2/47

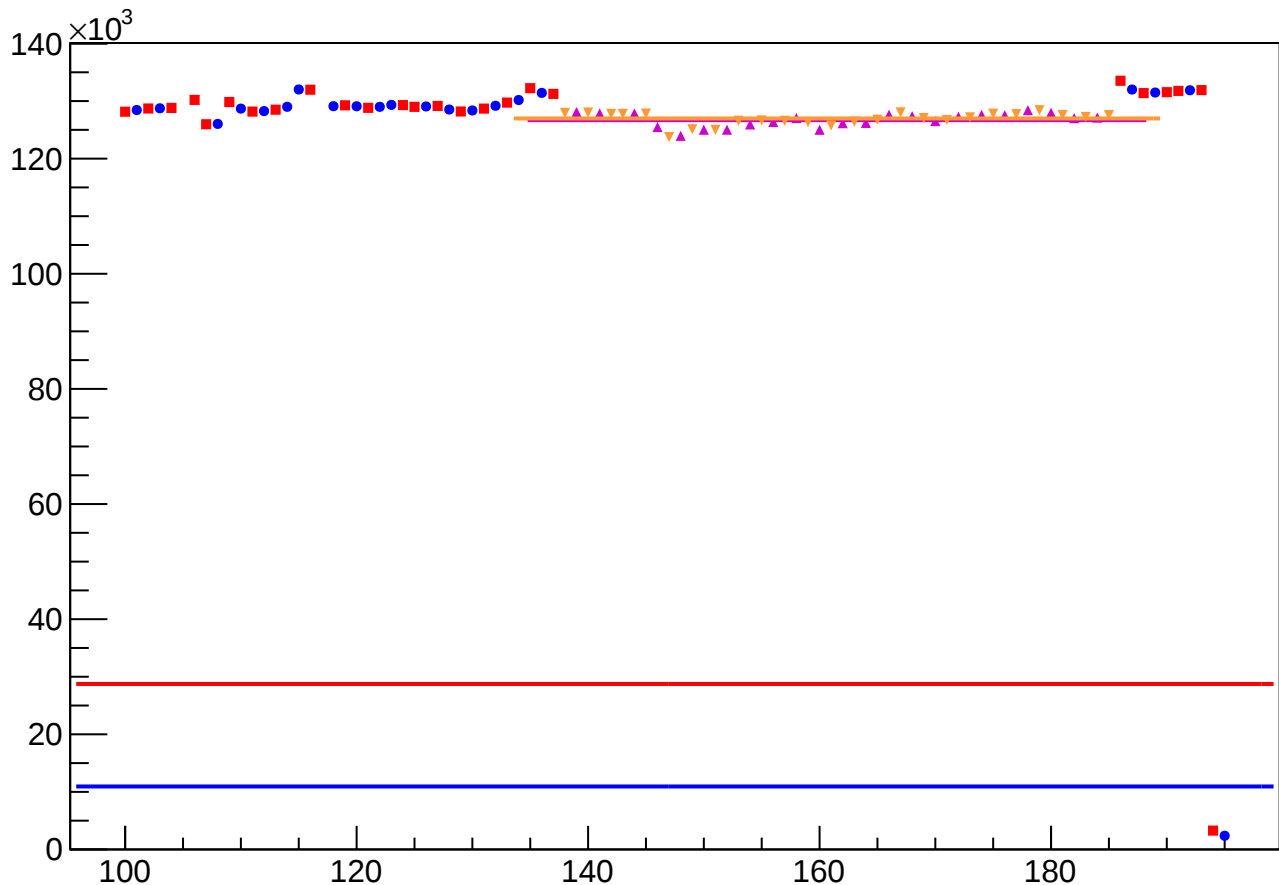
Right: 171.325 $\pm$ 0.029 χ^2 /NDF: 3563178.1/45

In: 187.565 $\pm$ 0.027 χ^2 /NDF:2557045.7/43

Out: 185.273 $\pm$ 0.025 χ^2 /NDF:3307165.0/49

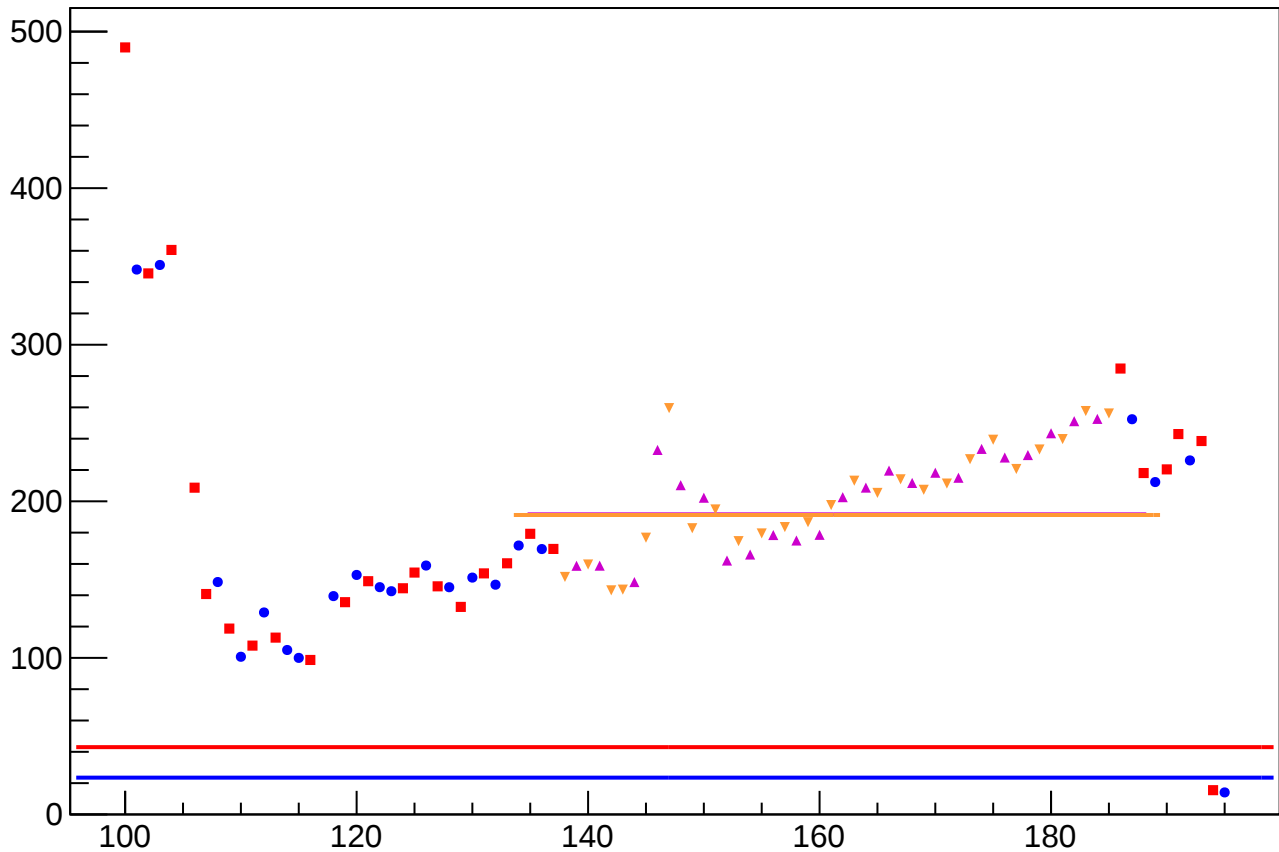
All: 186.358 $\pm$ 0.018 χ^2 /NDF: 5868055.6/93

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 10940.281+/-0.015	χ^2/NDF : 4599725607183.9/20	Left: 126836.943+/-0.033	χ^2/NDF : 1211882944.2/24
Left Out: 126981.724+/-0.046	χ^2/NDF : 530573115.8/24	Right: 16007.261+/-0.013	χ^2/NDF : 9643791415645.7/24
Right Out: 28746.031+/-0.024	χ^2/NDF : 4634570011447.8/24	In: 21440.255+/-0.014	χ^2/NDF : 10116340083363.7/24
Left In: 126682.659+/-0.047	χ^2/NDF : 660415880.0/22	Out: 49465.419+/-0.021	χ^2/NDF : 8309682266688.7/24
		All: 30248.370+/-0.012	χ^2/NDF : 1965819849.7/24

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 23.515 ± 0.010 $\chi^2/\text{NDF}: 12591803.5/20$

Left Out: 191.263 ± 0.032 $\chi^2/\text{NDF}: 992566.2/24$

Right Out: 42.991 ± 0.017 $\chi^2/\text{NDF}: 12734696.0/24$

Left In: 191.683 ± 0.033 $\chi^2/\text{NDF}: 864384.9/22$

Left: 191.466 ± 0.023 $\chi^2/\text{NDF}: 1857033.4/47$

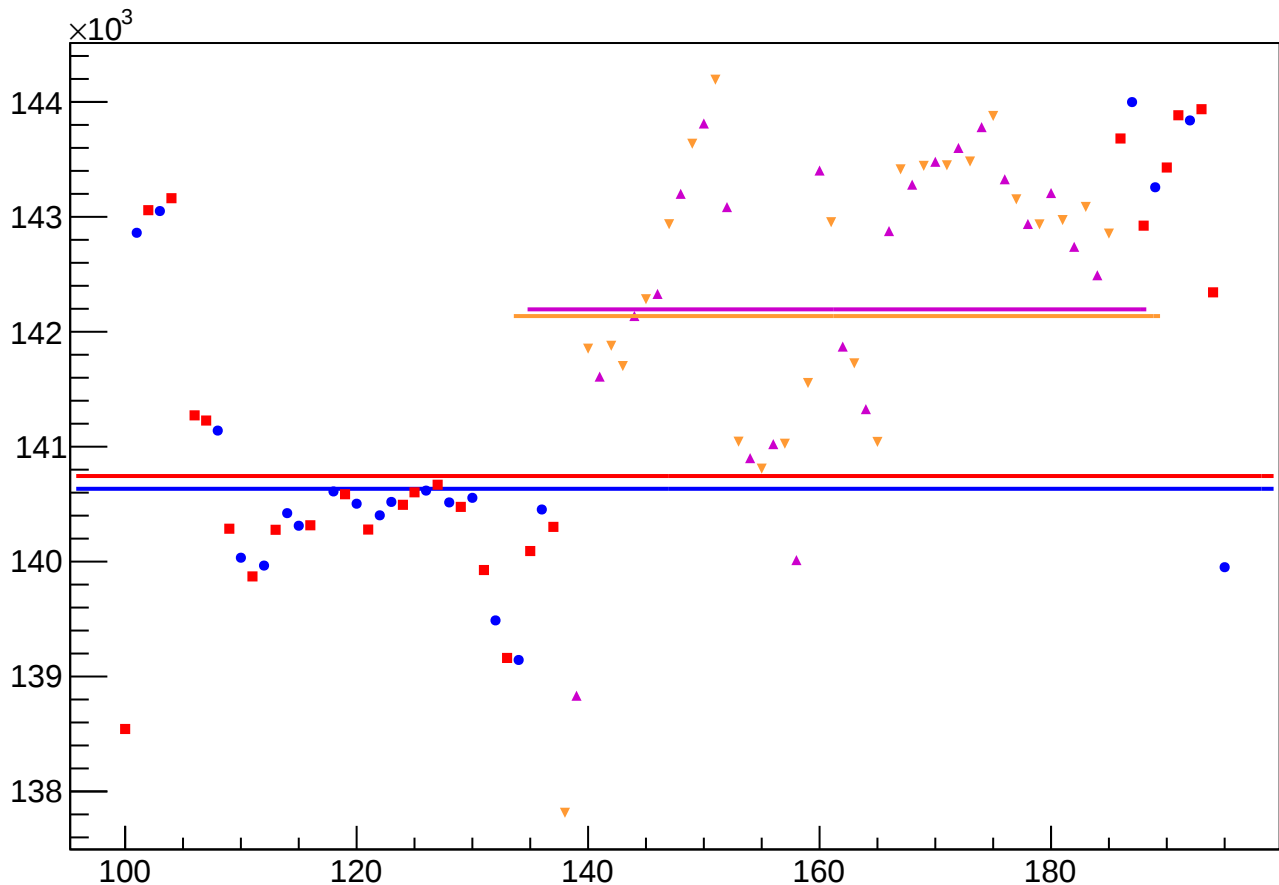
Right: 29.057 ± 0.009 $\chi^2/\text{NDF}: 26306355.0/45$

In: 38.771 ± 0.010 $\chi^2/\text{NDF}: 36745174.4/43$

Out: 74.264 ± 0.015 $\chi^2/\text{NDF}: 30469666.6/49$

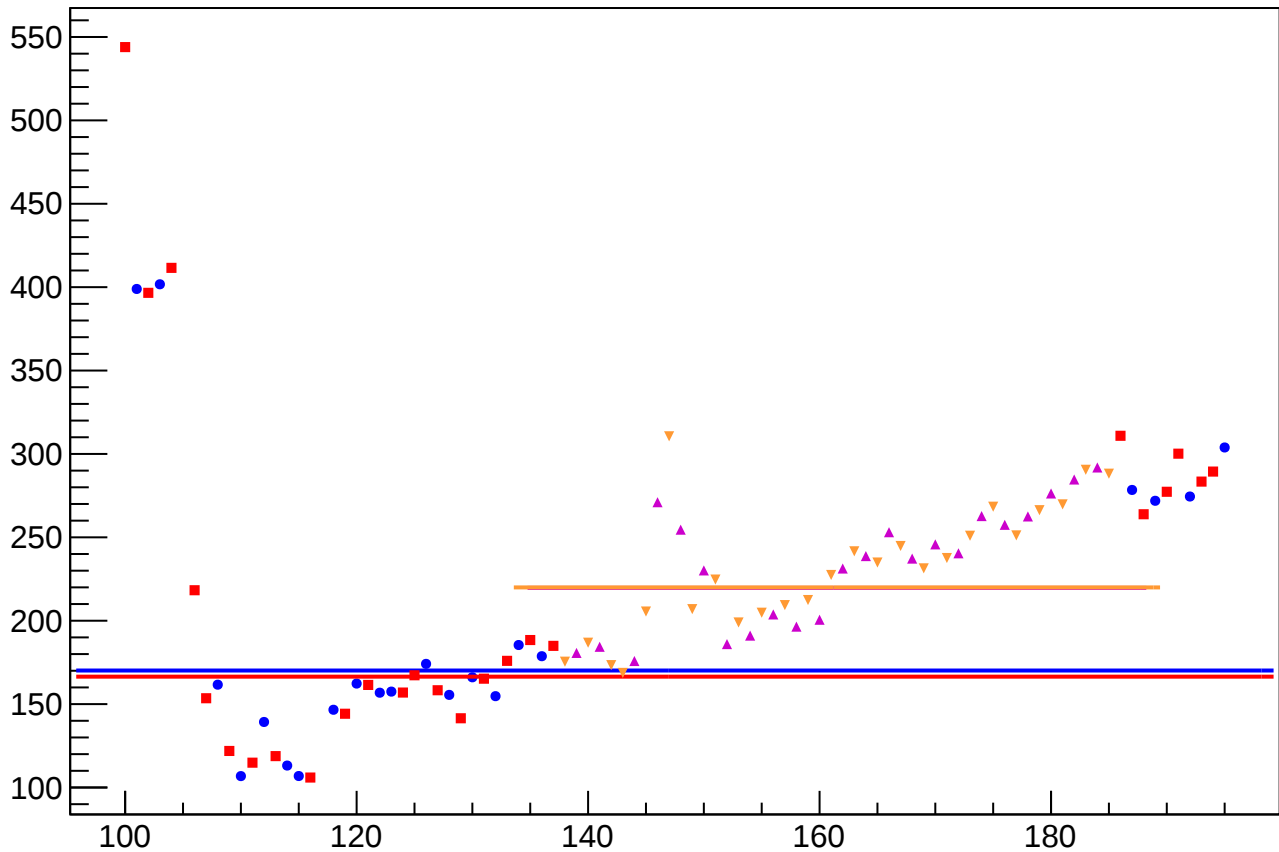
All: 49.926 ± 0.008 $\chi^2/\text{NDF}: 71167518.0/93$

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140633.492 $\pm$ 0.061	χ^2 /NDF: 294688029.7/20	Left: 142164.953 $\pm$ 0.038	χ^2 /NDF: 1460209902.9/4
Left Out: 142136.579 $\pm$ 0.052	χ^2 /NDF: 815573343.0/24	Right: 140693.922 $\pm$ 0.041	χ^2 /NDF: 702856309.5/4
Right Out: 140744.675 $\pm$ 0.056	χ^2 /NDF: 406354429.5/24	In: 141509.168 $\pm$ 0.040	χ^2 /NDF: 1307873780.6/4
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141485.015 $\pm$ 0.038	χ^2 /NDF: 1553167203.3/4
		All: 141496.423 $\pm$ 0.028	χ^2 /NDF: 286123018

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 170.143+/-0.043 χ^2/NDF : 2005410.0/20

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 166.463+/-0.039 χ^2/NDF : 2635493.0/24

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

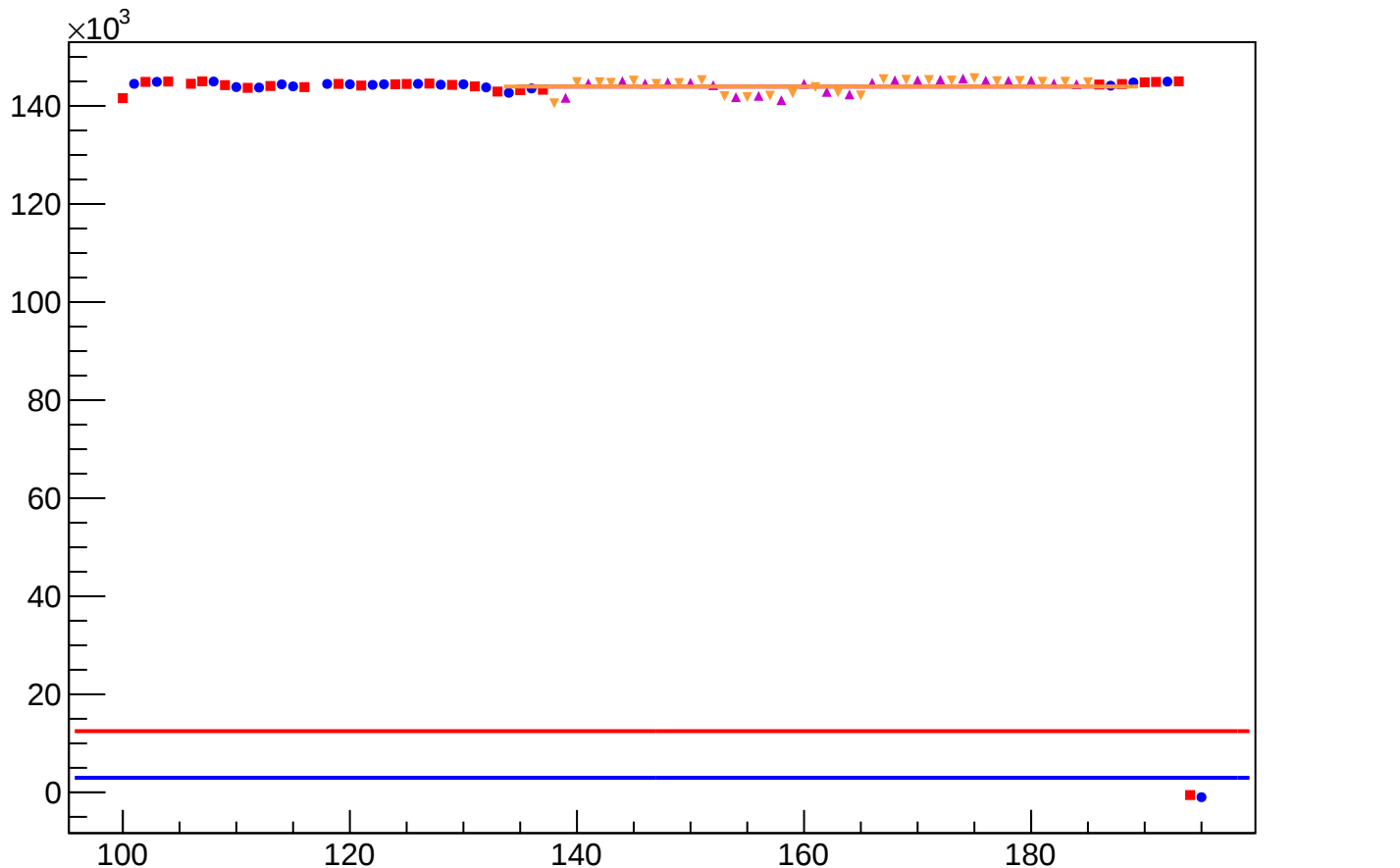
Right: 168.143+/-0.029 χ^2/NDF : 4644877.5/45

In: 197.925+/-0.029 χ^2/NDF : 3561304.0/43

Out: 194.922+/-0.027 χ^2/NDF : 4481058.3/49

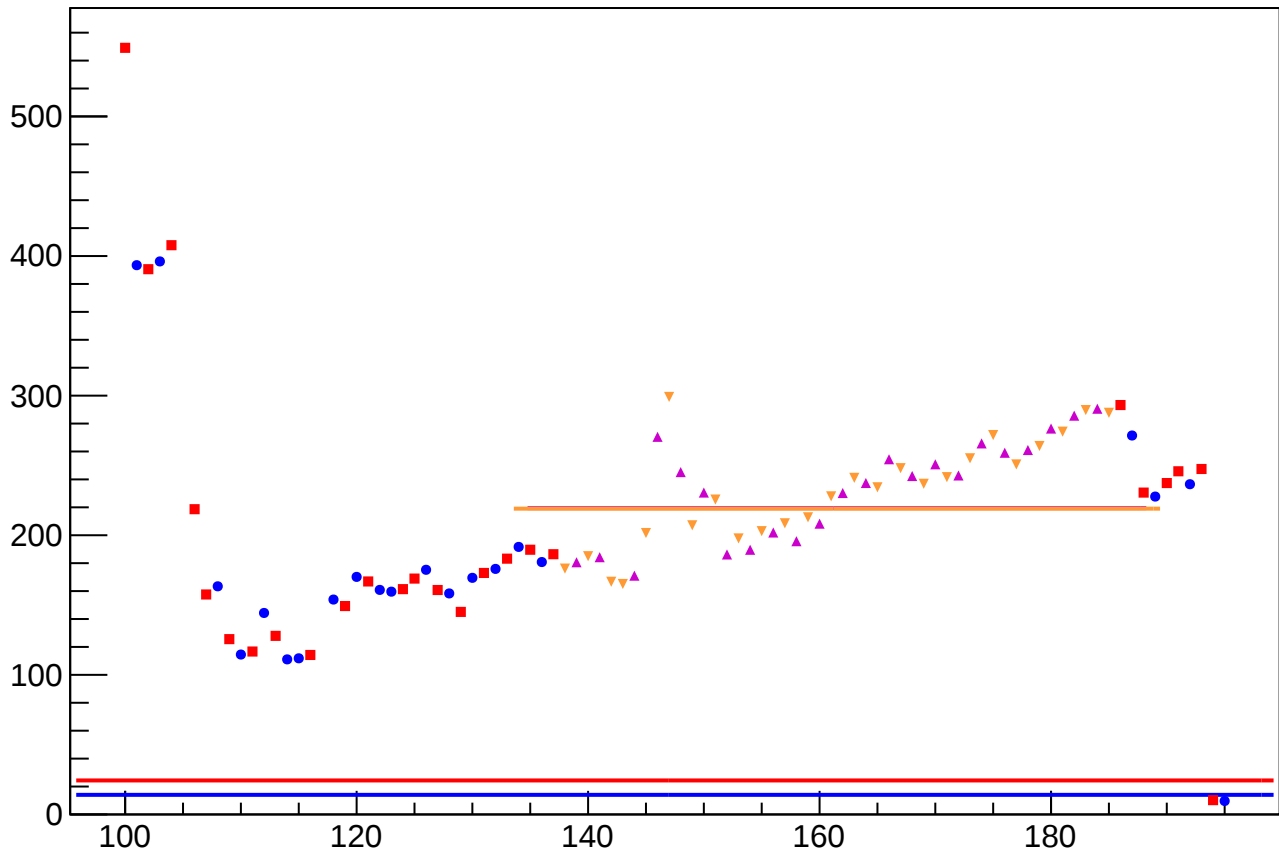
All: 196.341+/-0.020 χ^2/NDF : 8048210.7/93

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 2969.294 $\pm$ 0.010 χ^2 /NDF: 5148468007946.7/20
 Left Out: 143951.284 $\pm$ 0.052 χ^2 /NDF: 864679545.2/24
 Right Out: 12482.074 $\pm$ 0.017 χ^2 /NDF: 5788132538045.9/24
 Left In: 143938.288 $\pm$ 0.054 χ^2 /NDF: 719814685.6/22
 All: 12932.773 $\pm$ 0.009 χ^2 /NDF: 2408995283

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 14.049 $\pm$ 0.007 χ^2 /NDF: 14000171.7/20

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

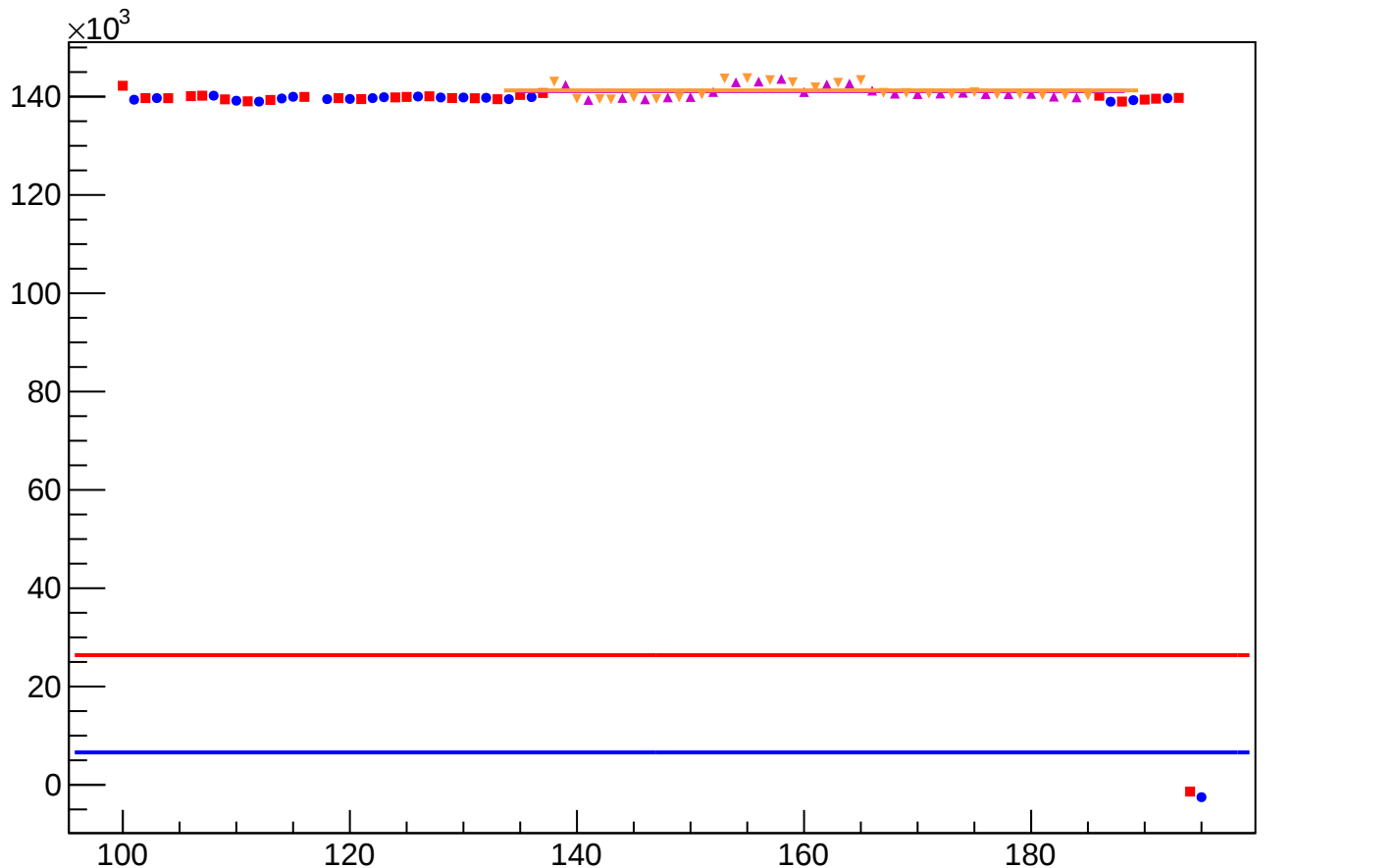
Right: 16.811 $\pm$ 0.006 χ^2 /NDF: 29927239.0/45

In: 21.455 $\pm$ 0.007 χ^2 /NDF: 42901639.1/43

Out: 43.513 $\pm$ 0.012 χ^2 /NDF: 41481815.9/49

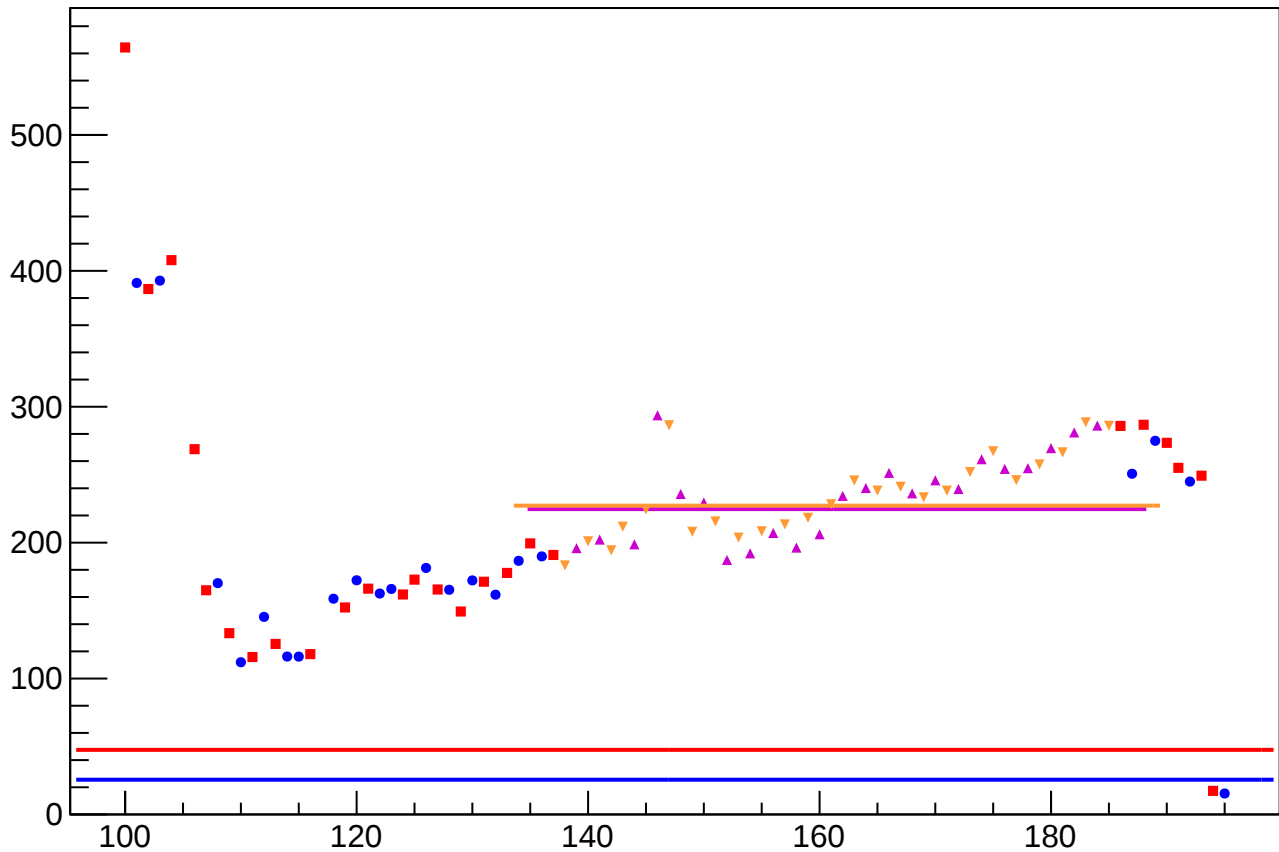
All: 27.655 $\pm$ 0.006 χ^2 /NDF: 87000111.6/93

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 6597.836 $\pm$ 0.016 χ^2 /NDF: 4547546934579.5/20
 Left Out: 141268.791 $\pm$ 0.054 χ^2 /NDF: 795989244.2/24
 Right Out: 26379.563 $\pm$ 0.026 χ^2 /NDF: 4571809115506.3/24
 Left In: 141119.484 $\pm$ 0.055 χ^2 /NDF: 565312728.1/22
 Left: 141195.809 $\pm$ 0.038 χ^2 /NDF: 1365080862.2/24
 Right: 12122.233 $\pm$ 0.014 χ^2 /NDF: 9529597344746
 In: 17516.211 $\pm$ 0.016 χ^2 /NDF: 10061779088484.
 Out: 48497.498 $\pm$ 0.024 χ^2 /NDF: 8268851187257.
 All: 26996.306 $\pm$ 0.013 χ^2 /NDF: 1953058449

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 25.573+/-0.012 χ^2/NDF : 12685231.6/20

Left Out: 227.224+/-0.038 χ^2/NDF : 484955.3/24

Right Out: 47.530+/-0.019 χ^2/NDF : 12846776.6/24

Left In: 224.686+/-0.039 χ^2/NDF : 578366.0/22

Left: 225.984+/-0.027 χ^2/NDF : 1065504.5/47

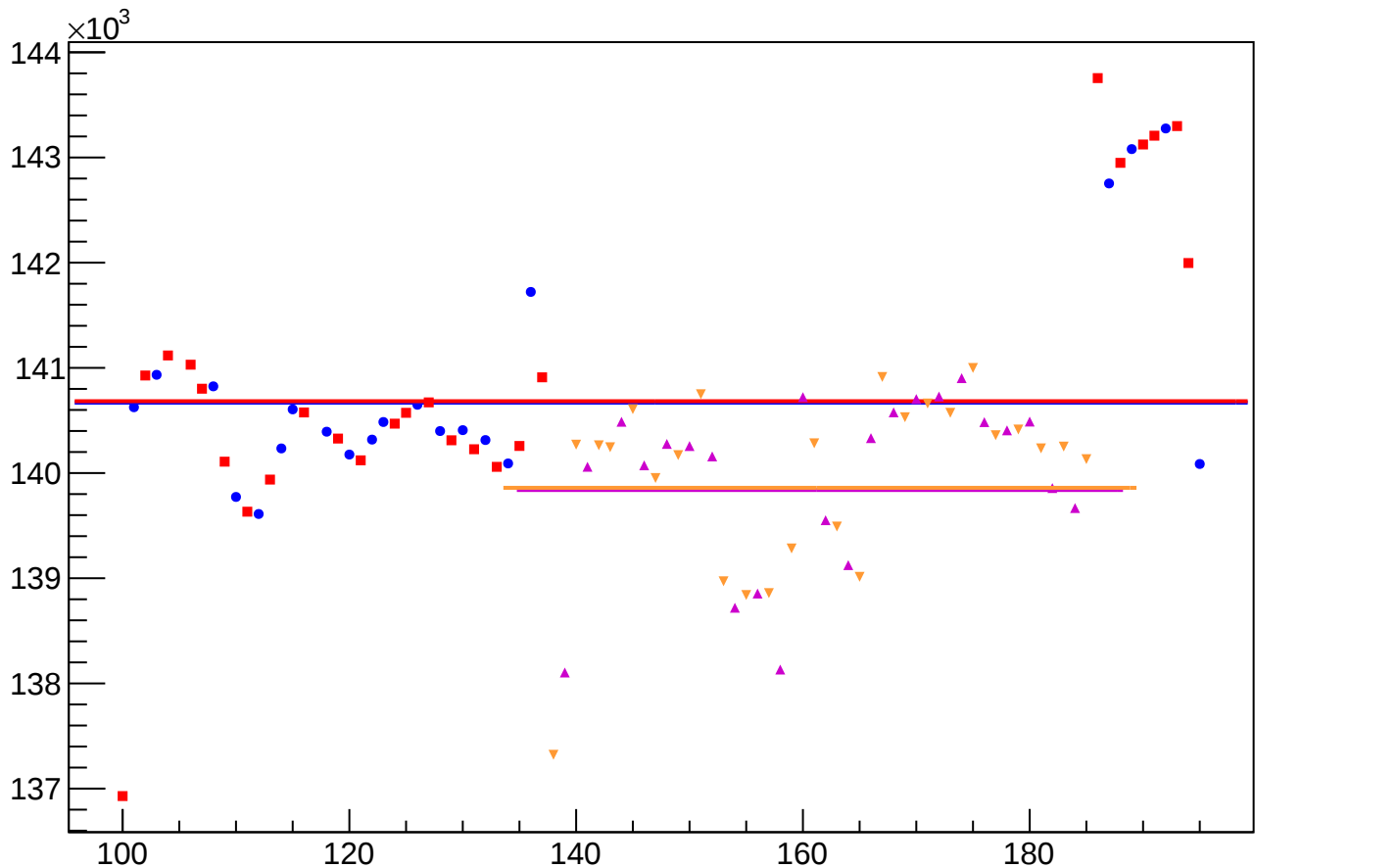
Right: 31.705+/-0.010 χ^2/NDF : 26542864.3/45

In: 41.734+/-0.011 χ^2/NDF : 37423010.3/43

Out: 82.124+/-0.017 χ^2/NDF : 31415899.8/49

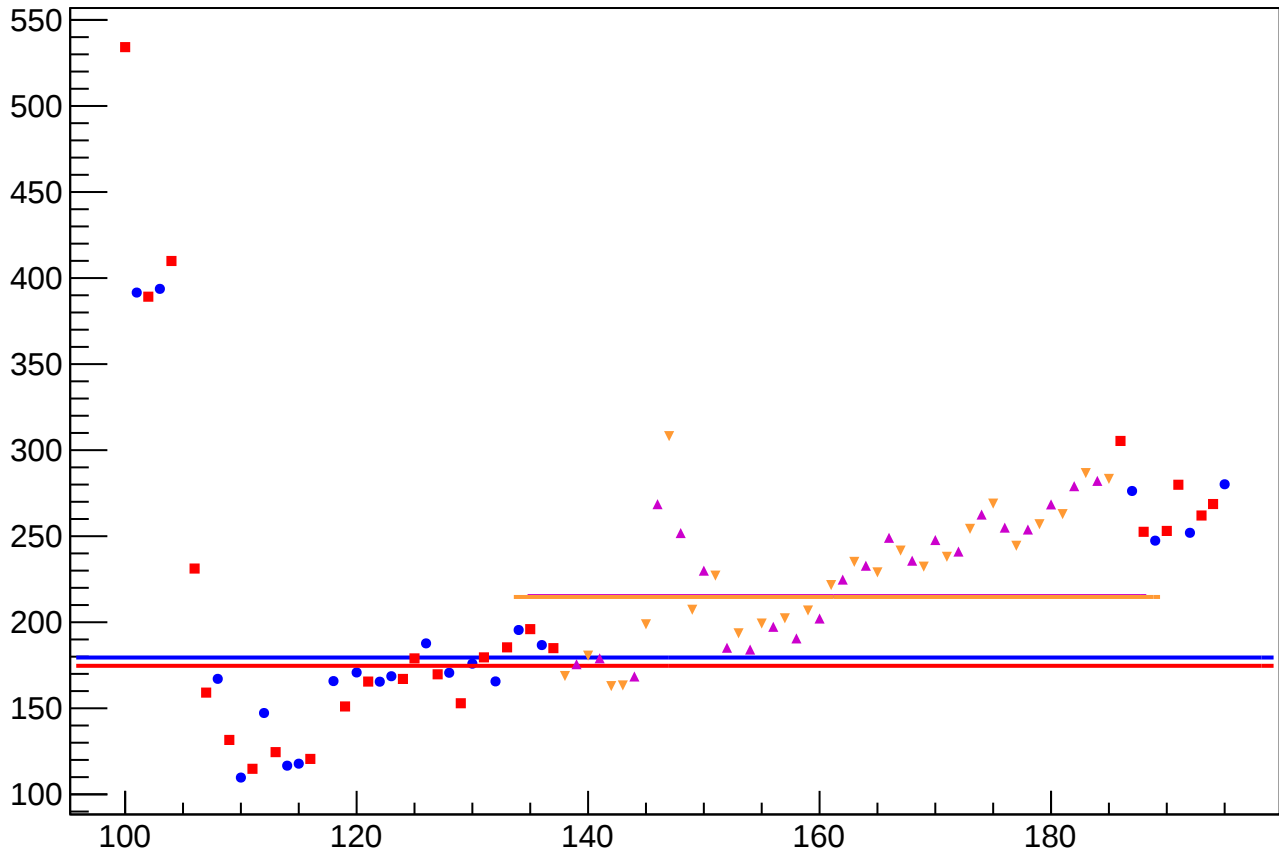
All: 54.093+/-0.009 χ^2/NDF : 72917805.5/93

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140669.105 $\pm$ 0.064	χ^2/NDF : 237798921.6/20	Left: 139849.553 $\pm$ 0.037	χ^2/NDF : 609773442.9/47
Left Out: 139859.696 $\pm$ 0.051	χ^2/NDF : 330118281.5/24	Right: 140676.760 $\pm$ 0.043	χ^2/NDF : 572540371.5/47
Right Out: 140683.100 $\pm$ 0.058	χ^2/NDF : 334714927.3/24	In: 140177.807 $\pm$ 0.041	χ^2/NDF : 618376395.0/43
Left In: 139838.724 $\pm$ 0.053	χ^2/NDF : 279573689.3/22	Out: 140220.621 $\pm$ 0.038	χ^2/NDF : 778658613.4/49
		All: 140200.471 $\pm$ 0.028	χ^2/NDF : 139762332.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 179.505 $\pm$ 0.045 χ^2 /NDF: 1625320.7/20

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

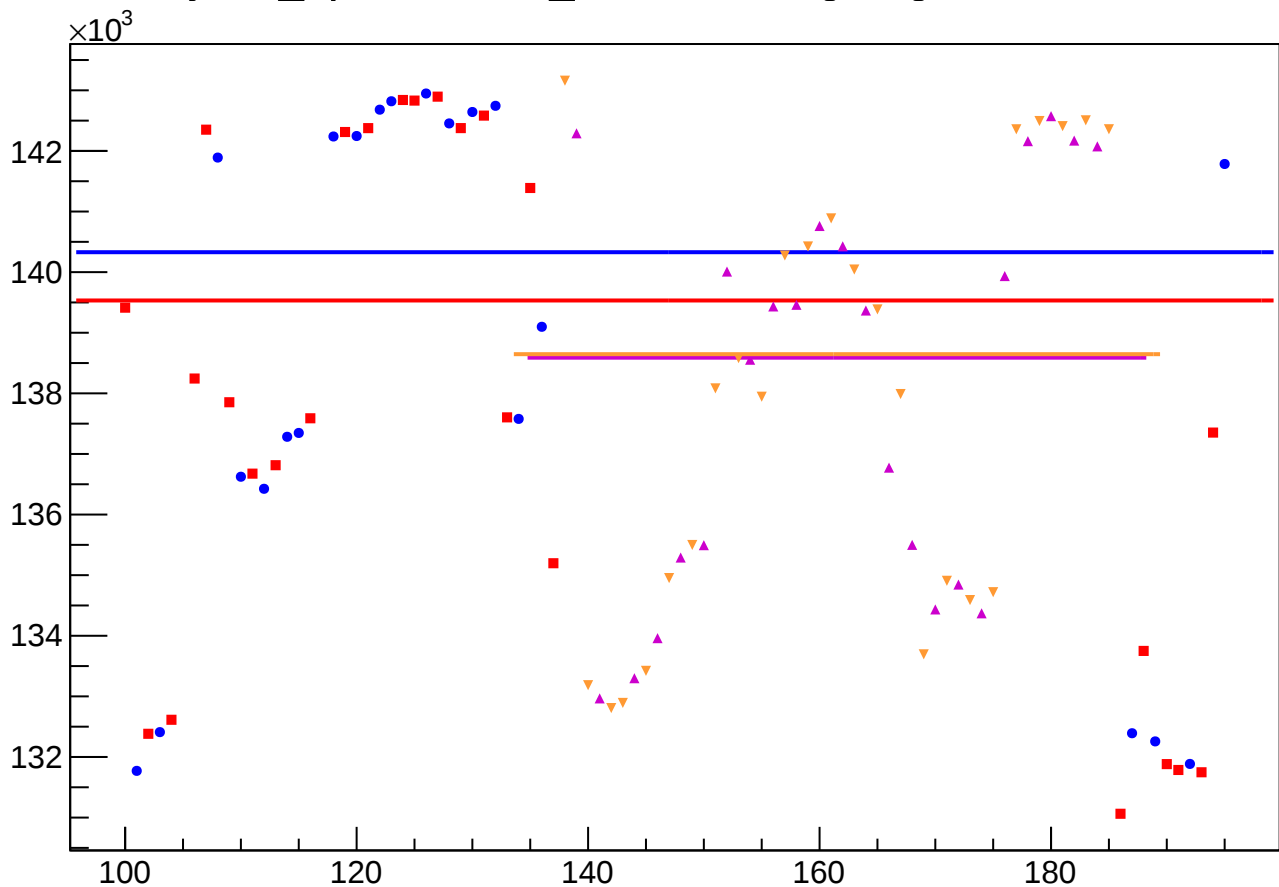
Right: 176.869 $\pm$ 0.030 χ^2 /NDF: 3815145.9/45

In: 200.637 $\pm$ 0.029 χ^2 /NDF: 2880985.8/43

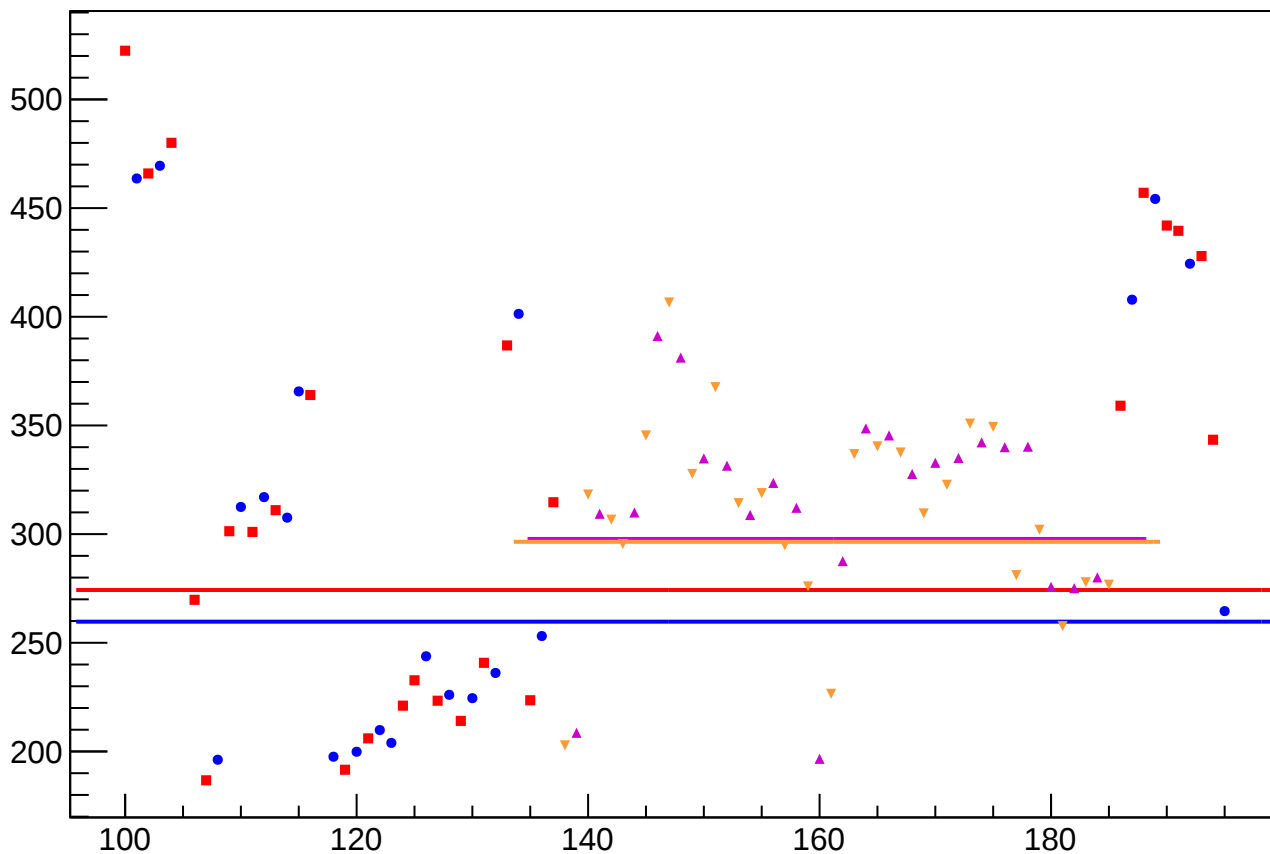
Out: 197.156 $\pm$ 0.027 χ^2 /NDF: 3702063.4/49

All: 198.794 $\pm$ 0.020 χ^2 /NDF: 6590826.6/93

yield_bpm0r03WS_mean vs Slug, Sign Corrected



yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 259.721+/-0.065 χ^2/NDF : 1394084.7/20

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 274.300+/-0.064 χ^2/NDF : 1876571.7/24

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

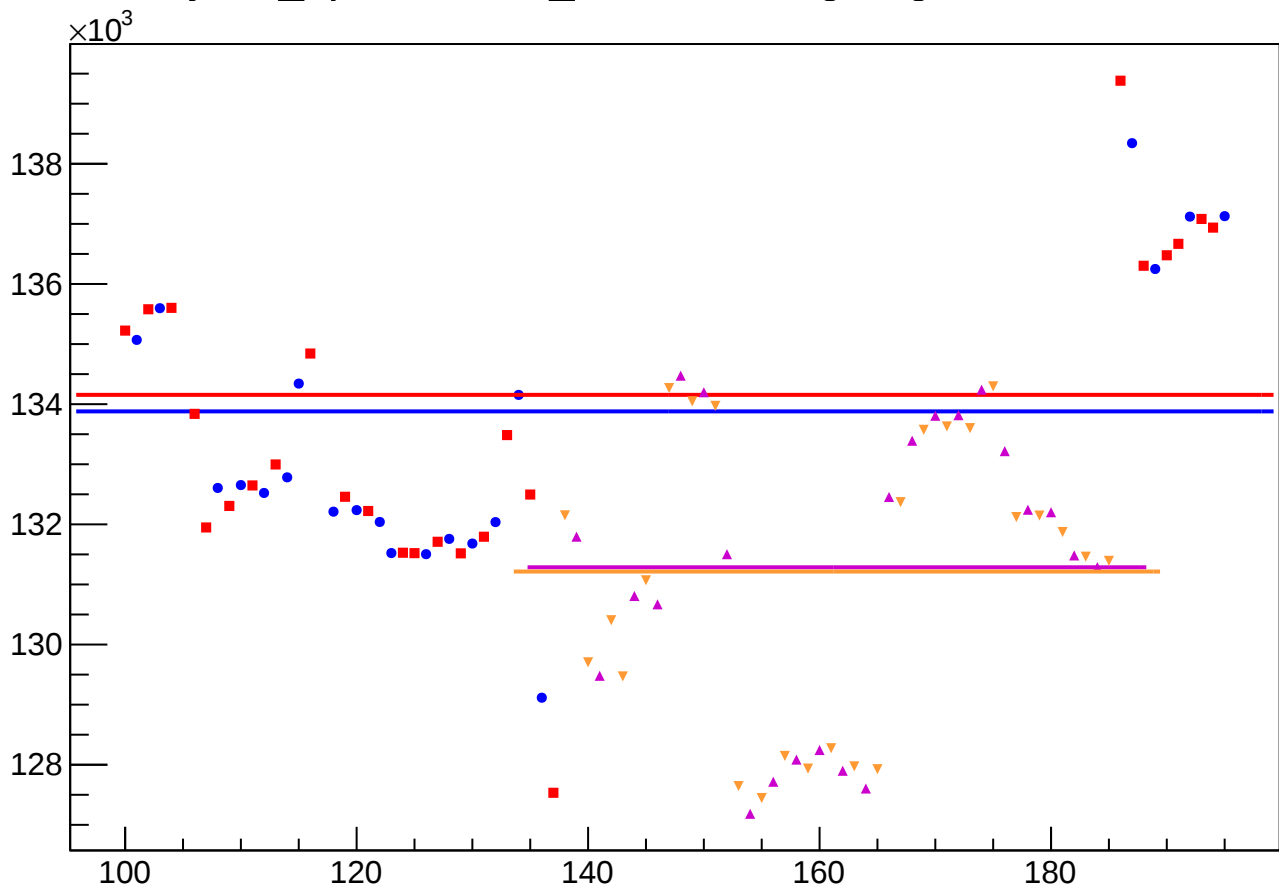
Right: 267.104+/-0.045 χ^2/NDF : 3296388.7/45

In: 282.803+/-0.041 χ^2/NDF : 2665556.4/43

Out: 288.020+/-0.039 χ^2/NDF : 2844725.7/49

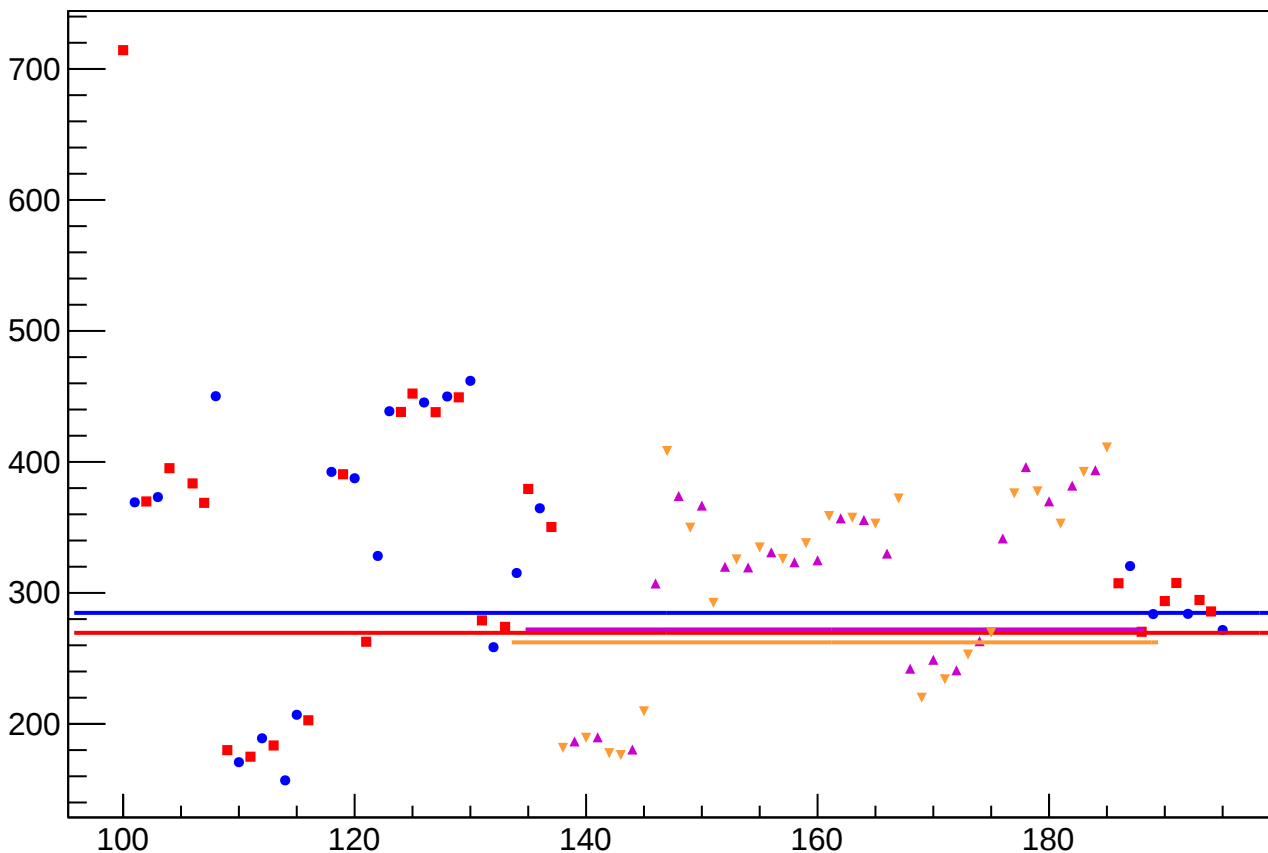
All: 285.487+/-0.028 χ^2/NDF : 5518786.7/93

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133879.977 $\pm$ 0.100	χ^2/NDF : 581640092.9/20	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: 134034.800 $\pm$ 0.066	χ^2/NDF : 1238645291.5/4
Right Out: 134155.058 $\pm$ 0.088	χ^2/NDF : 652764001.1/24	In: 132109.127 $\pm$ 0.056	χ^2/NDF : 2095388116.4/43
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: 132176.624 $\pm$ 0.038	χ^2/NDF : 464839317.1/22

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 284.760 $\pm$ 0.071 χ^2 /NDF: 1521817.3/20

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

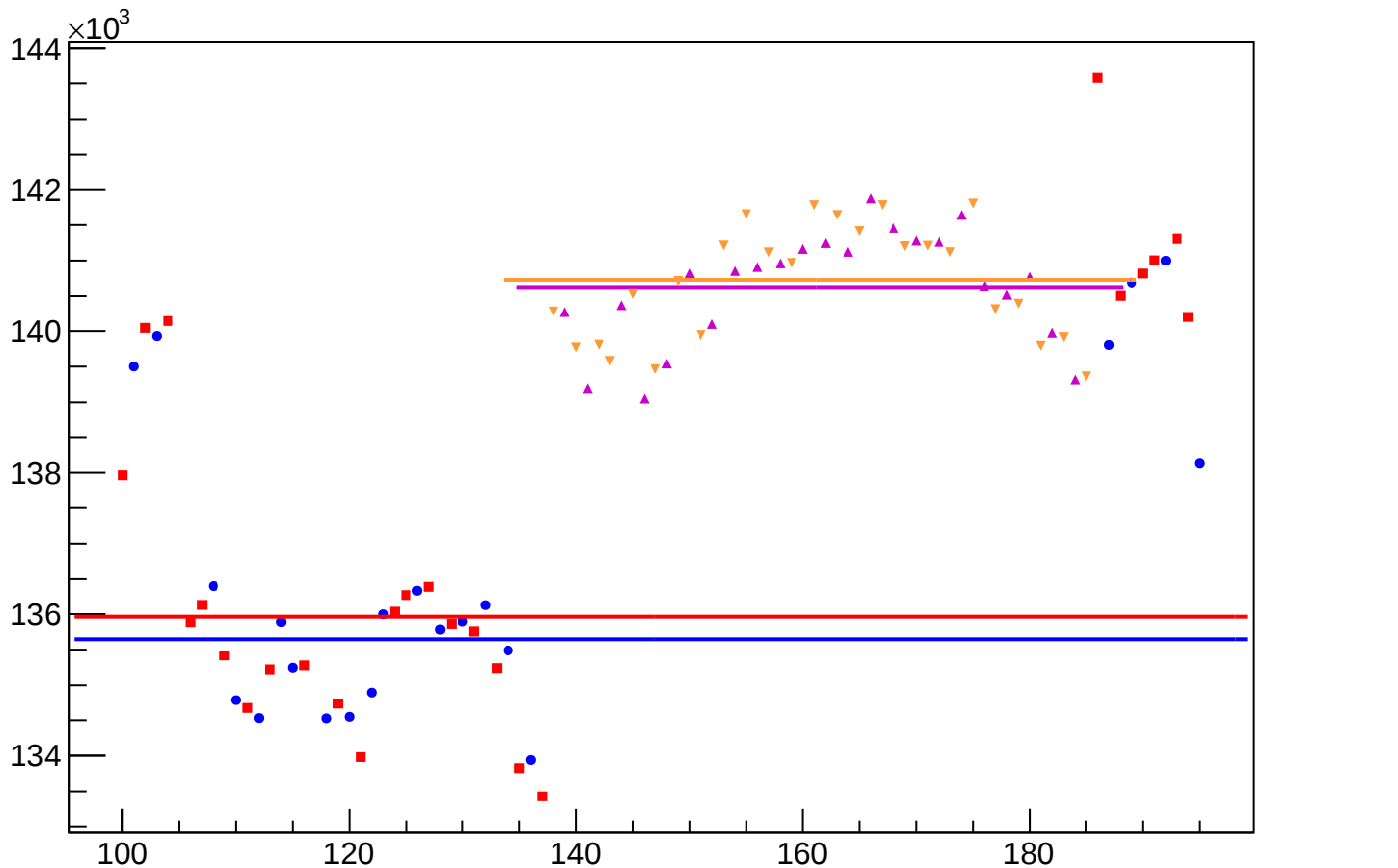
Right: 276.186 $\pm$ 0.047 χ^2 /NDF: 3214001.1/45

In: 276.129 $\pm$ 0.040 χ^2 /NDF:3765480.2/43

Out: 264.778 $\pm$ 0.037 χ^2 /NDF:4493186.7/49

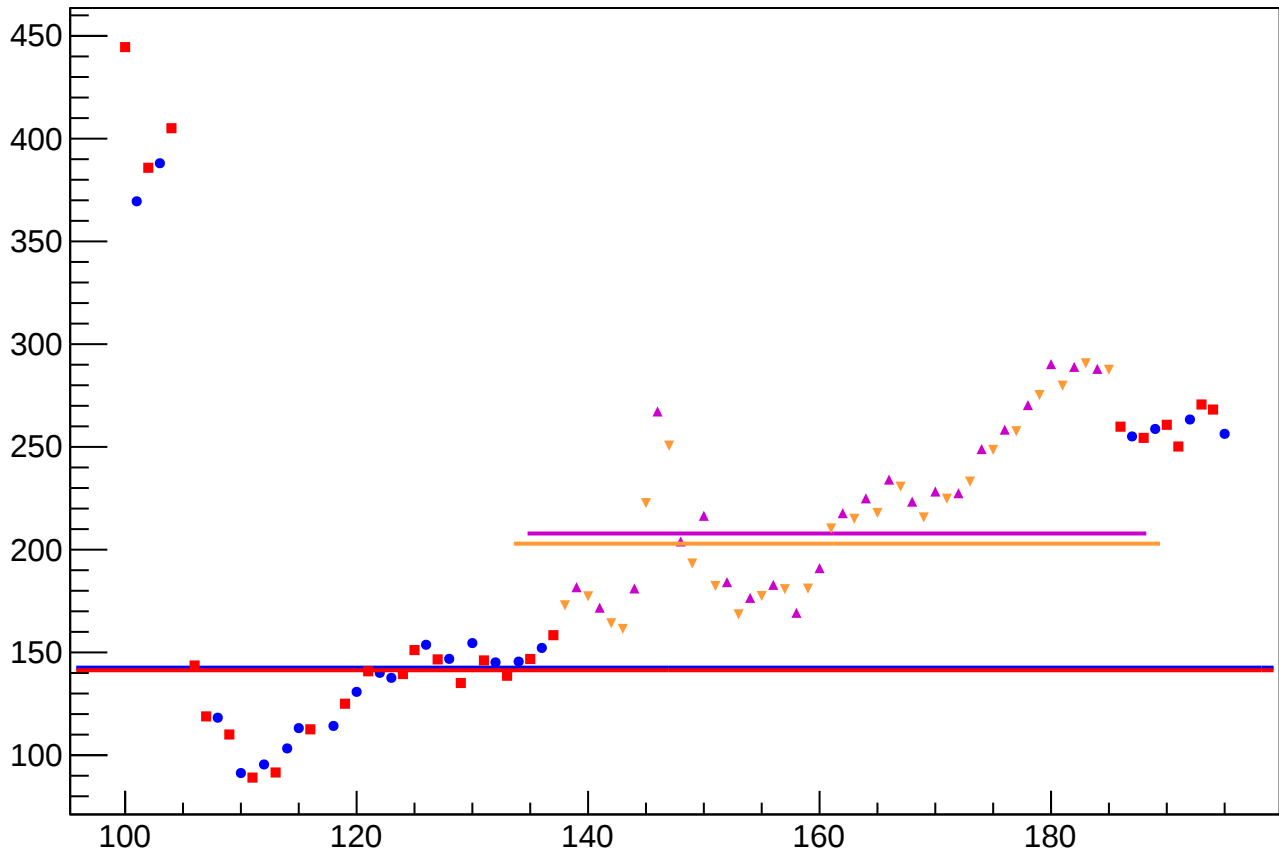
All: 269.986 $\pm$ 0.027 χ^2 /NDF: 8302411.2/93

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135649.727 $\pm$ 0.052 χ^2 /NDF: 1105801444.0/20
 Left Out: 140721.823 $\pm$ 0.048 χ^2 /NDF: 247257762.8/24
 Right Out: 135963.415 $\pm$ 0.048 χ^2 /NDF: 1842337616.5/24
 Left In: 140619.038 $\pm$ 0.051 χ^2 /NDF: 200370178.0/22
 Left: 140673.196 $\pm$ 0.035 χ^2 /NDF: 449761004.9/47
 Right: 135818.169 $\pm$ 0.035 χ^2 /NDF: 2967823796.0/47
 In: 138169.350 $\pm$ 0.036 χ^2 /NDF: 5970749311.0/43
 Out: 138328.011 $\pm$ 0.034 χ^2 /NDF: 6950794844.2/43
 All: 138253.745 $\pm$ 0.025 χ^2 /NDF: 129316635.0/43

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 142.596 $\pm$ 0.037 χ^2 /NDF: 2427951.6/20

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

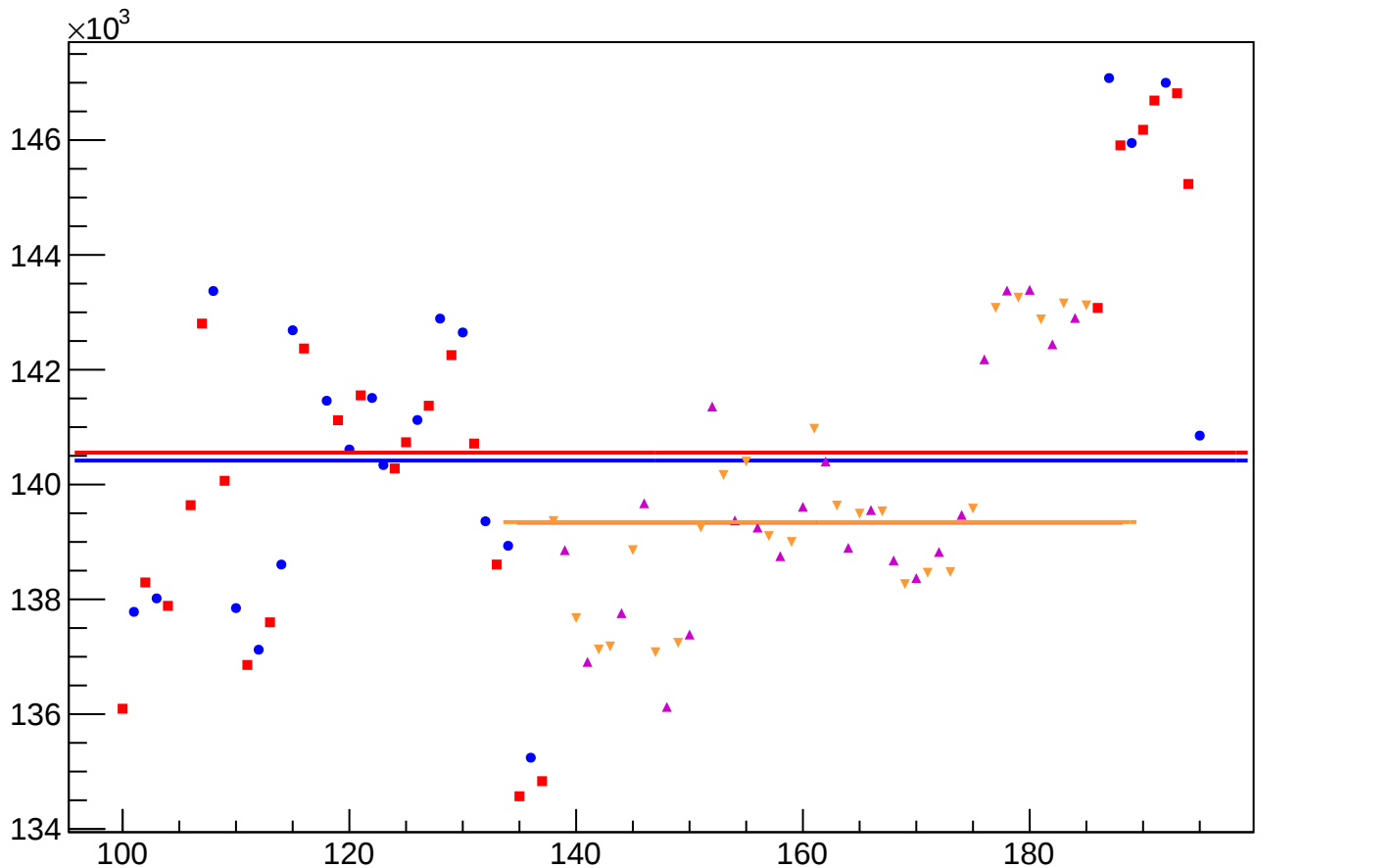
Right: 141.914 $\pm$ 0.025 χ^2 /NDF: 5505575.0/45

In: 175.693 $\pm$ 0.026 χ^2 /NDF:4986907.0/43

Out: 171.941 $\pm$ 0.024 χ^2 /NDF:5759041.3/49

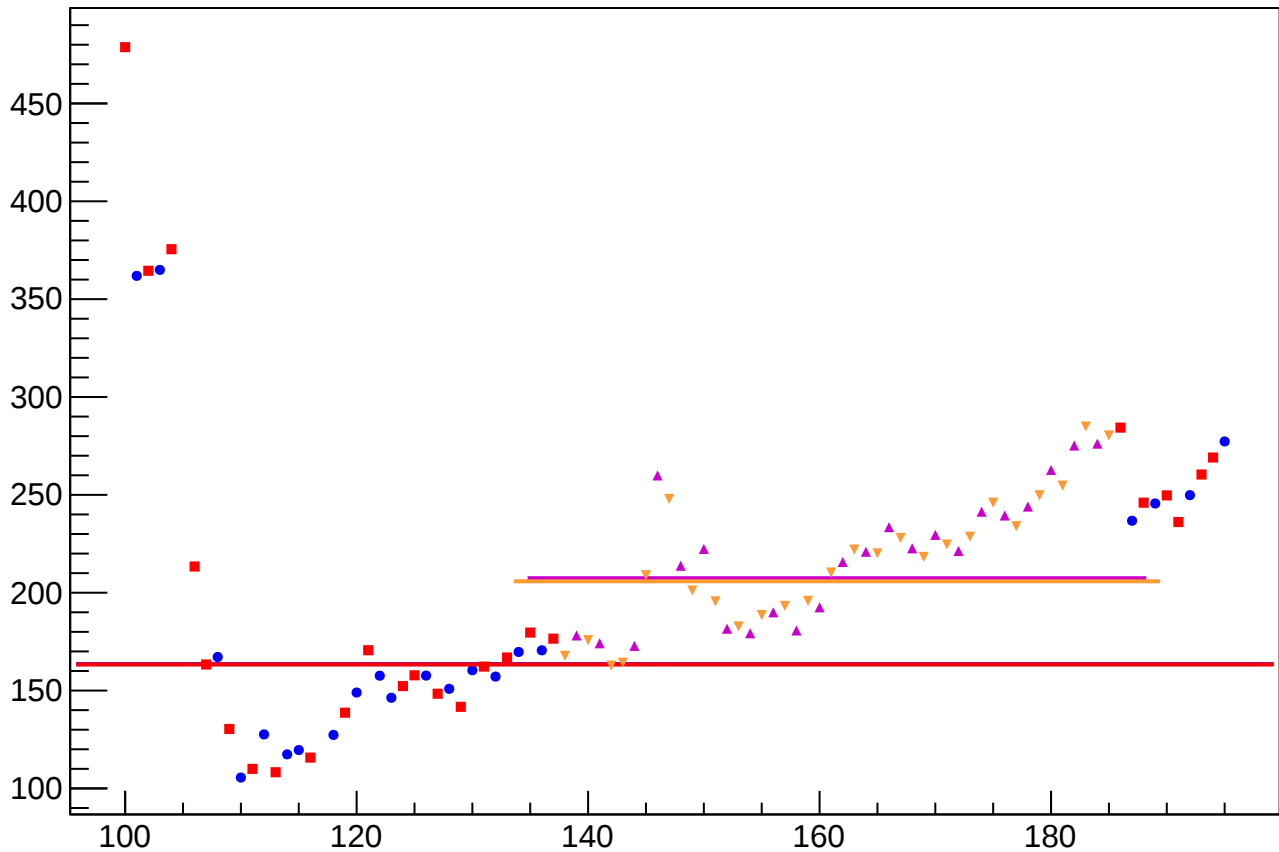
All: 173.697 $\pm$ 0.018 χ^2 /NDF: 10757268.3/93

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140417.425 $\pm$ 0.058 χ^2 /NDF: 2755457144.2/20
 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: 140491.077 $\pm$ 0.040 χ^2 /NDF: 5965838912.0/4
 In: 139805.216 $\pm$ 0.038 χ^2 /NDF: 4243664846.8/43
 Out: 139887.724 $\pm$ 0.036 χ^2 /NDF: 4751377989.8/4
 All: 139848.561 $\pm$ 0.026 χ^2 /NDF: 899748283.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 163.499+/-0.041 χ^2/NDF : 1761429.9/20

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 163.344+/-0.038 χ^2/NDF : 2285831.8/24

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

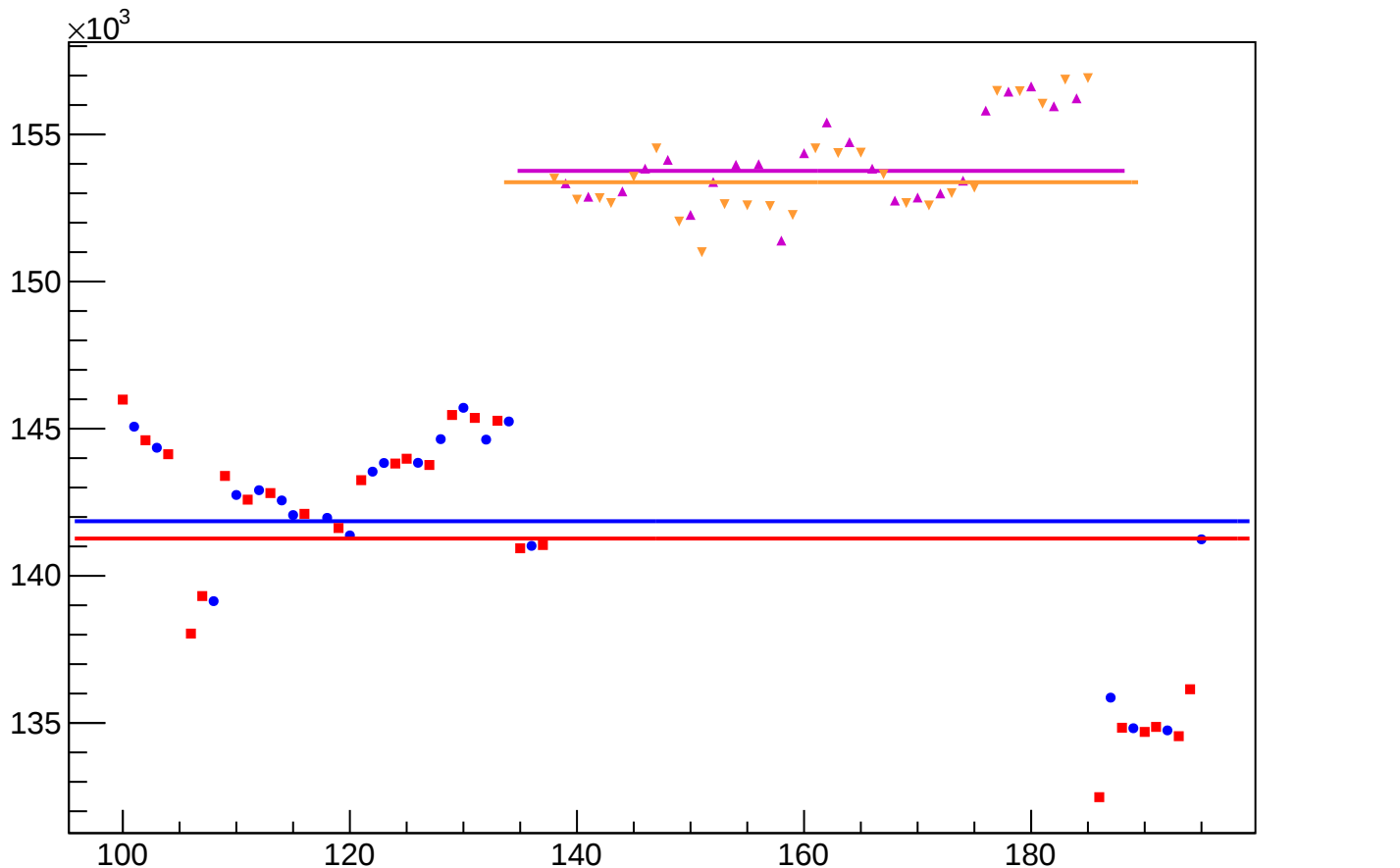
Right: 163.416+/-0.028 χ^2/NDF : 4047269.3/45

In: 188.404+/-0.027 χ^2/NDF : 3109482.0/43

Out: 186.813+/-0.026 χ^2/NDF : 3698611.7/49

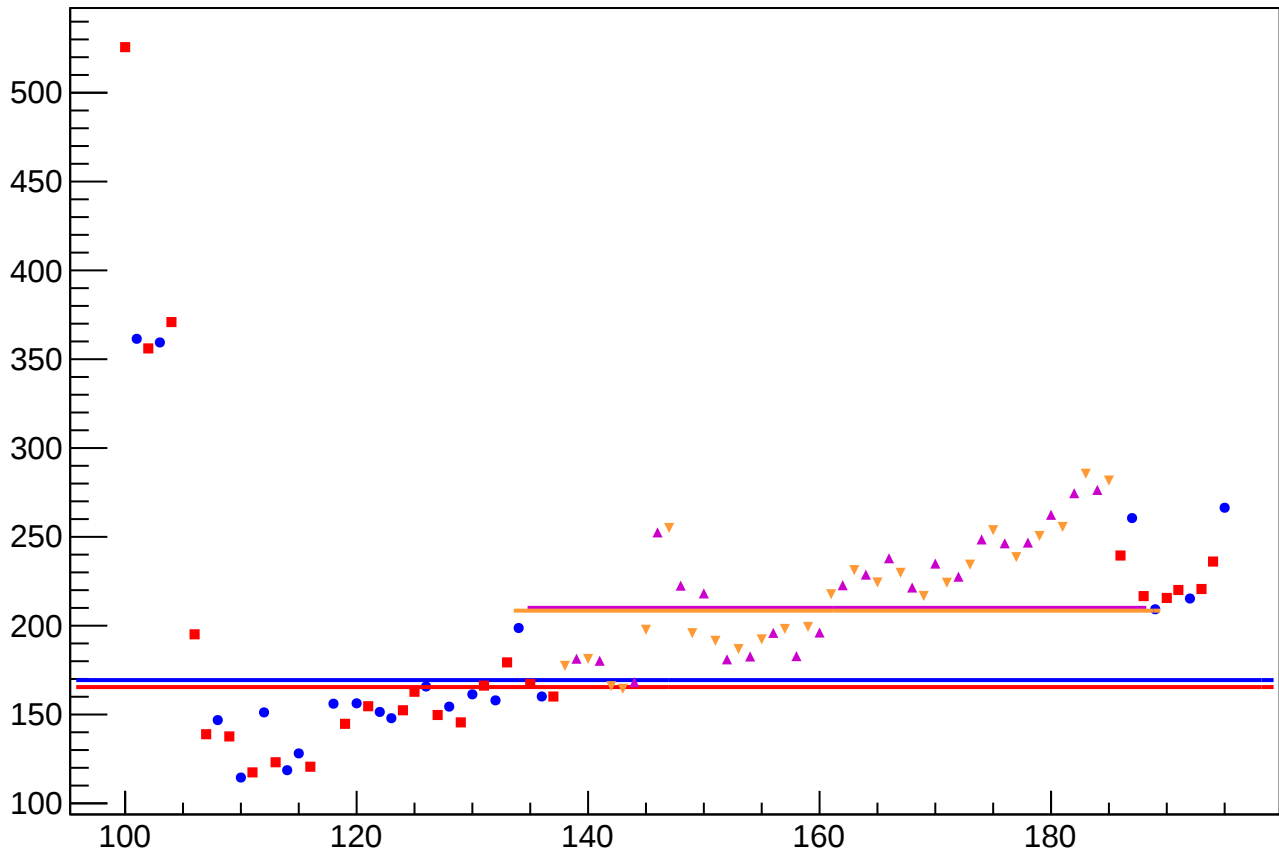
All: 187.568+/-0.019 χ^2/NDF : 6809908.8/93

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141856.351 $\pm$ 0.059	χ^2 /NDF: 2580122990.9/20	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: 141534.139 $\pm$ 0.040	χ^2 /NDF: 7021305734.0/4
Right Out: 141267.425 $\pm$ 0.054	χ^2 /NDF: 4387574694.5/24	In: 148668.691 $\pm$ 0.039	χ^2 /NDF: 26128756203.9/4
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: 148237.715 $\pm$ 0.027	χ^2 /NDF: 587869333.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 169.383+/-0.042 χ^2/NDF : 1314462.9/20

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

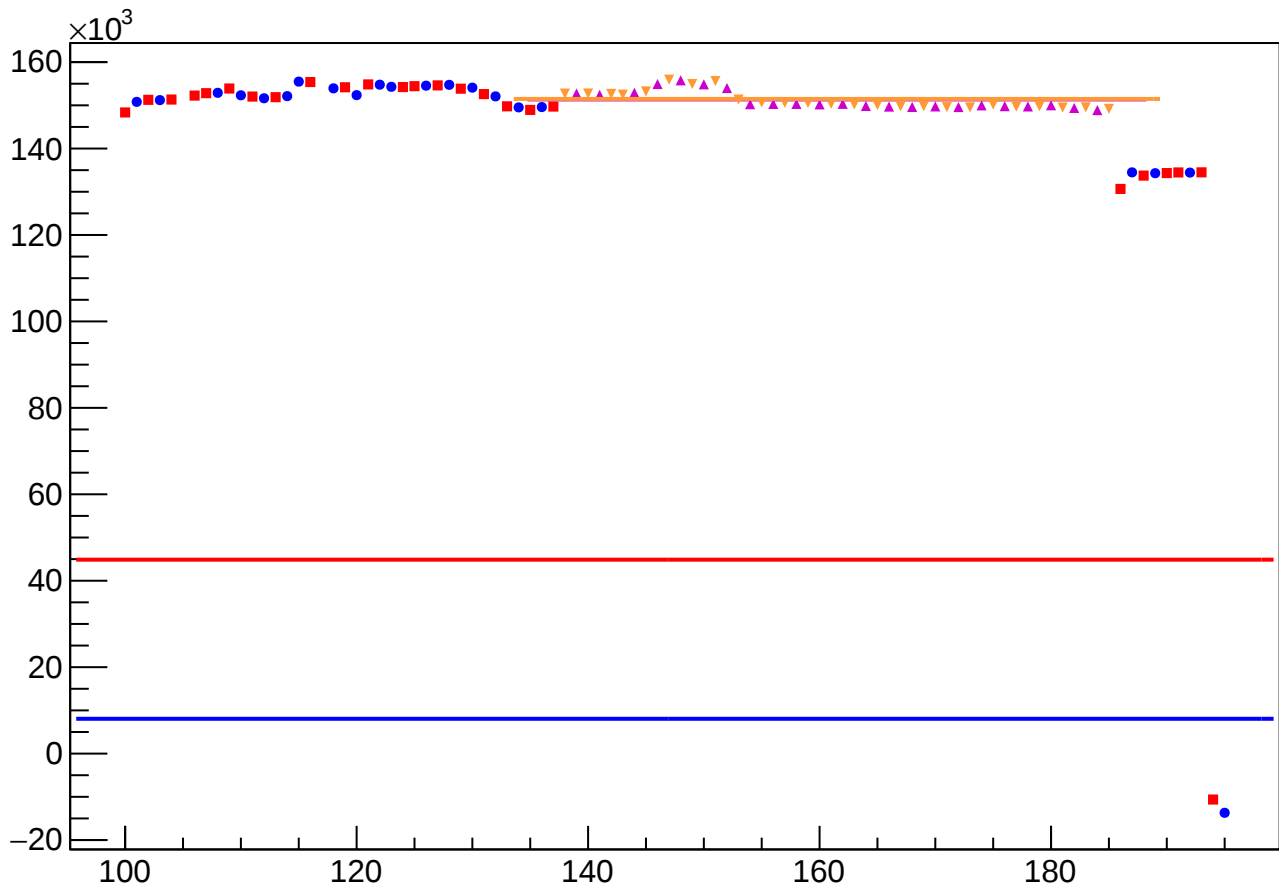
Right: 167.230+/-0.028 χ^2/NDF : 2911118.8/45

In: 192.645+/-0.028 χ^2/NDF : 2551161.6/43

Out: 188.860+/-0.026 χ^2/NDF : 3000188.6/49

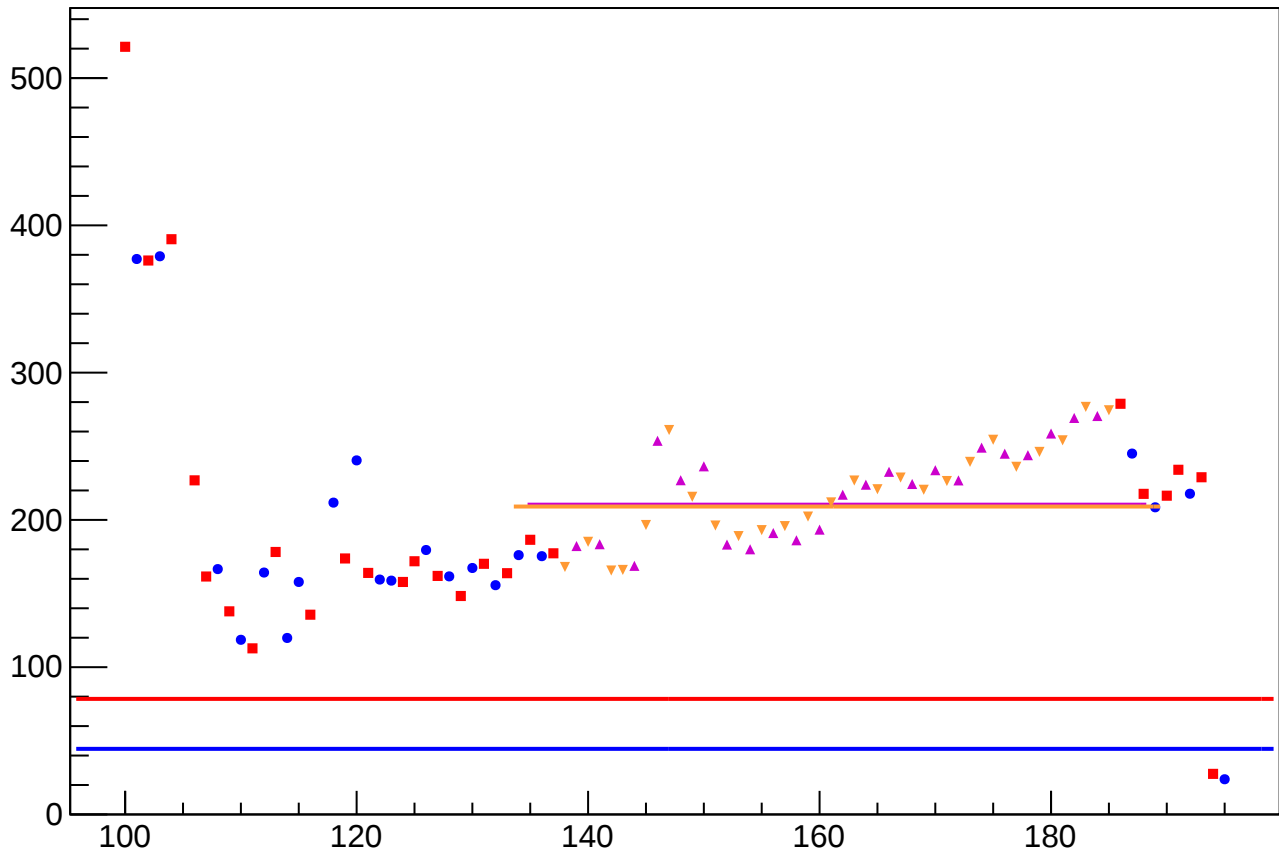
All: 190.633+/-0.019 χ^2/NDF : 5561402.9/93

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 8057.792 ± 0.024 $\chi^2/\text{NDF}: 5211412547035.7/20$ Left: 151425.512 ± 0.036 $\chi^2/\text{NDF}: 2906409079.9/24$
 Left Out: 151483.385 ± 0.050 $\chi^2/\text{NDF}: 1481910066.9/24$ Right: 19890.002 ± 0.020 $\chi^2/\text{NDF}: 1059524995138.0/24$
 Right Out: 44874.990 ± 0.035 $\chi^2/\text{NDF}: 4649762935075.0/24$ In: 34342.103 ± 0.022 $\chi^2/\text{NDF}: 11560040219297.0/24$
 Out: 80926.597 ± 0.029 $\chi^2/\text{NDF}: 7718332925936.0/24$ Left In: 151363.165 ± 0.051 $\chi^2/\text{NDF}: 1421662089.0/22$
 All: 51522.888 ± 0.017 $\chi^2/\text{NDF}: 209299786.0/22$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 44.544+/-0.017 χ^2/NDF : 10421543.9/20

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 78.472+/-0.025 χ^2/NDF : 9206035.6/24

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

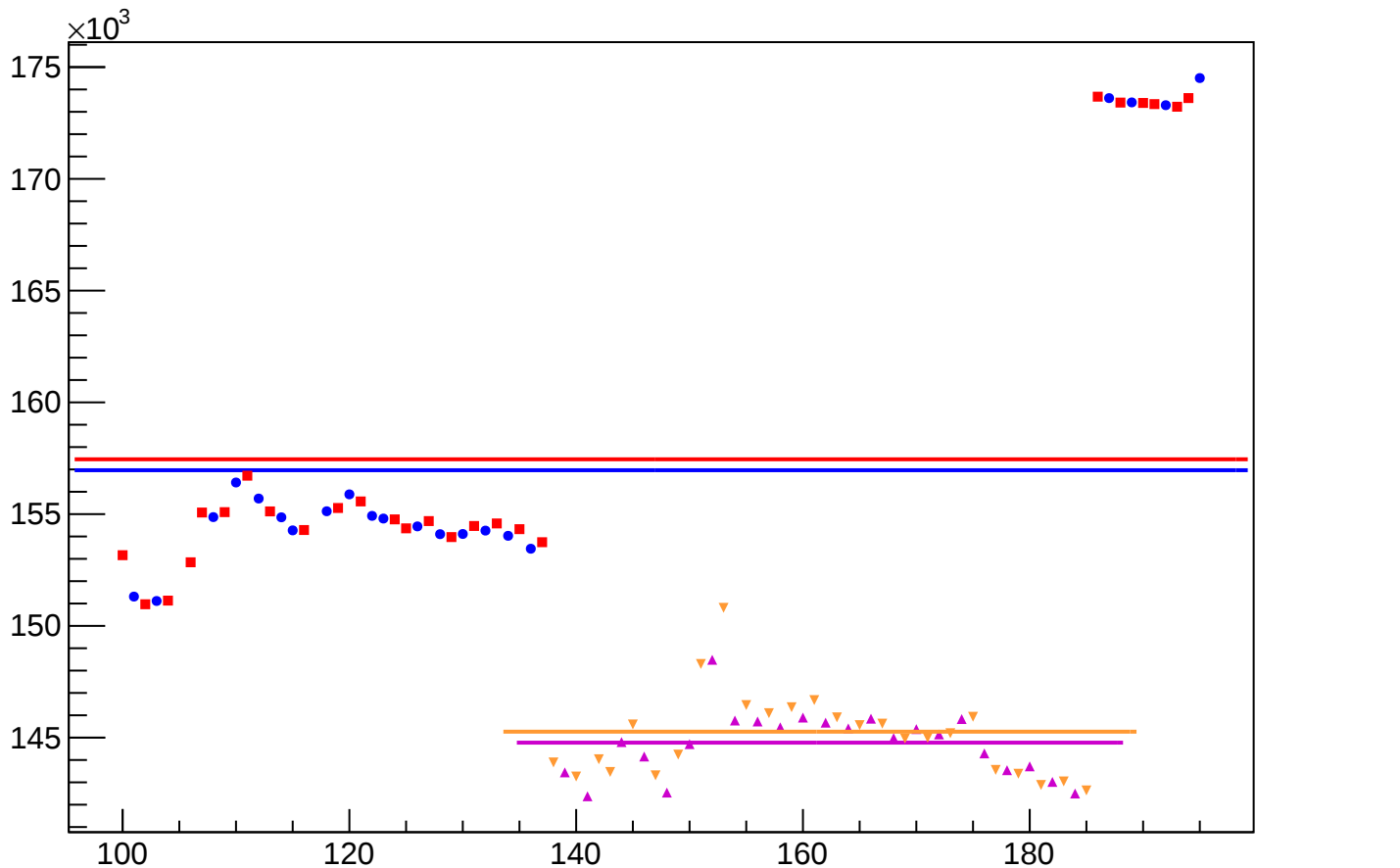
Right: 55.448+/-0.014 χ^2/NDF : 20874306.1/45

In: 74.955+/-0.016 χ^2/NDF : 28091863.4/43

Out: 122.638+/-0.020 χ^2/NDF : 19120641.2/49

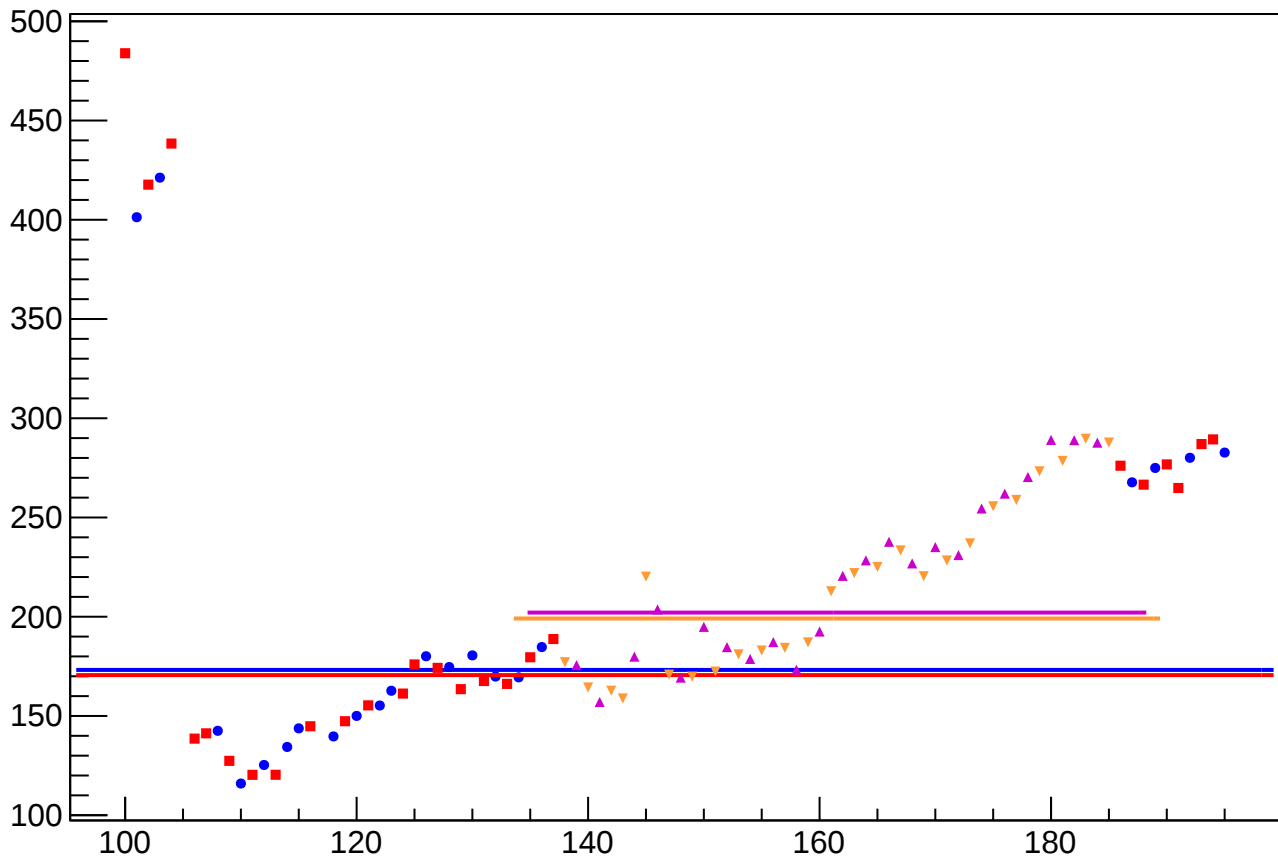
All: 92.541+/-0.012 χ^2/NDF : 50673399.7/93

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 156964.923 $\pm$ 0.062	χ^2 /NDF: 9922978124.2/20	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/4
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 157230.713 $\pm$ 0.042	χ^2 /NDF: 23464981241.5
Right Out: 157453.813 $\pm$ 0.056	χ^2 /NDF: 13507755786.1/24	In: 149565.795 $\pm$ 0.039	χ^2 /NDF: 34610685865.9/4
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 150307.103 $\pm$ 0.036	χ^2 /NDF: 42573293956.5
		All: 149959.389 $\pm$ 0.026	χ^2 /NDF: 773796718

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 173.200 $\pm$ 0.044 χ^2 /NDF: 1899282.6/20

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

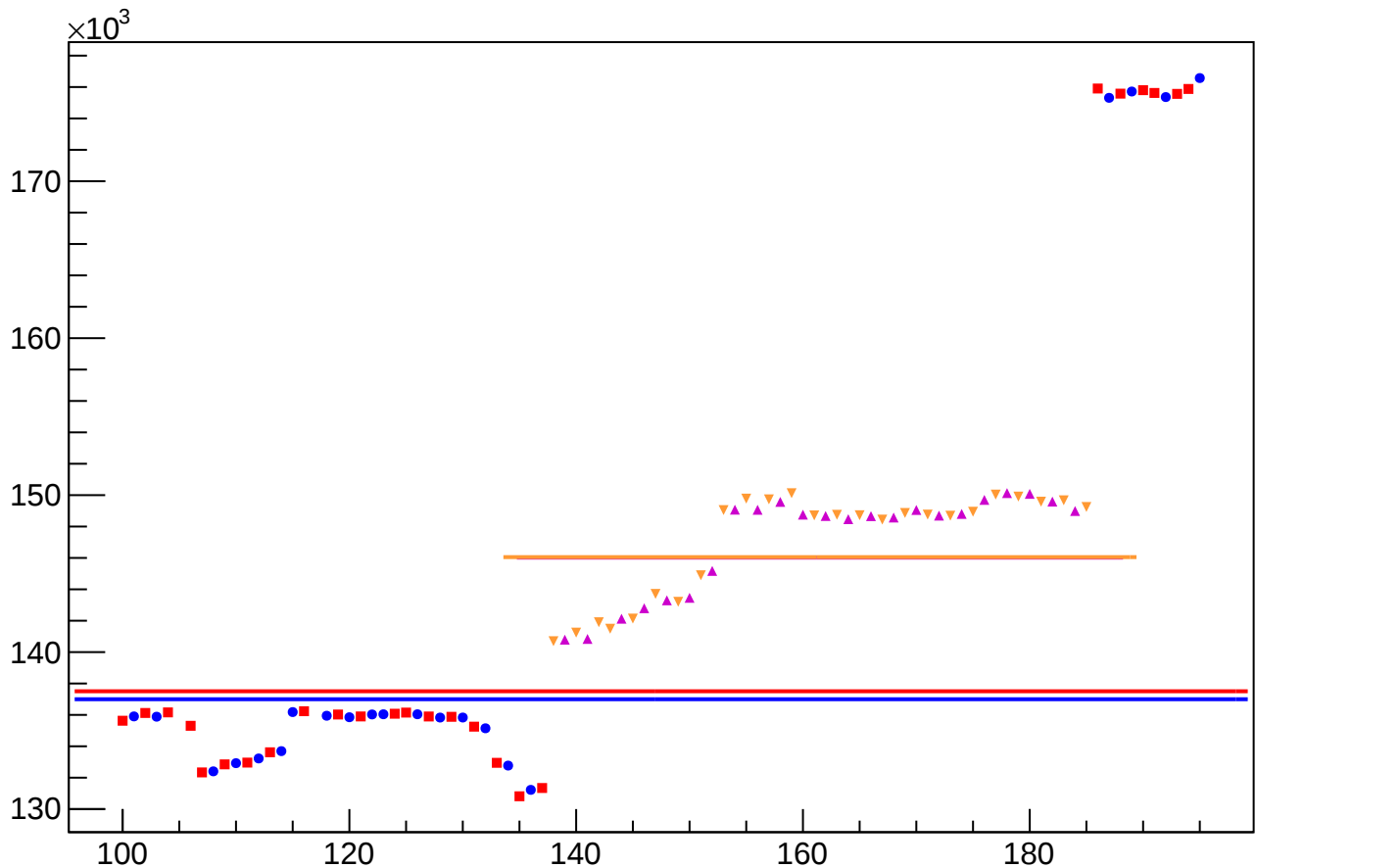
Right: 171.782 $\pm$ 0.029 χ^2 /NDF: 4265932.8/45

In: 190.737 $\pm$ 0.027 χ^2 /NDF:3224194.0/43

Out: 187.320 $\pm$ 0.026 χ^2 /NDF:3816595.4/49

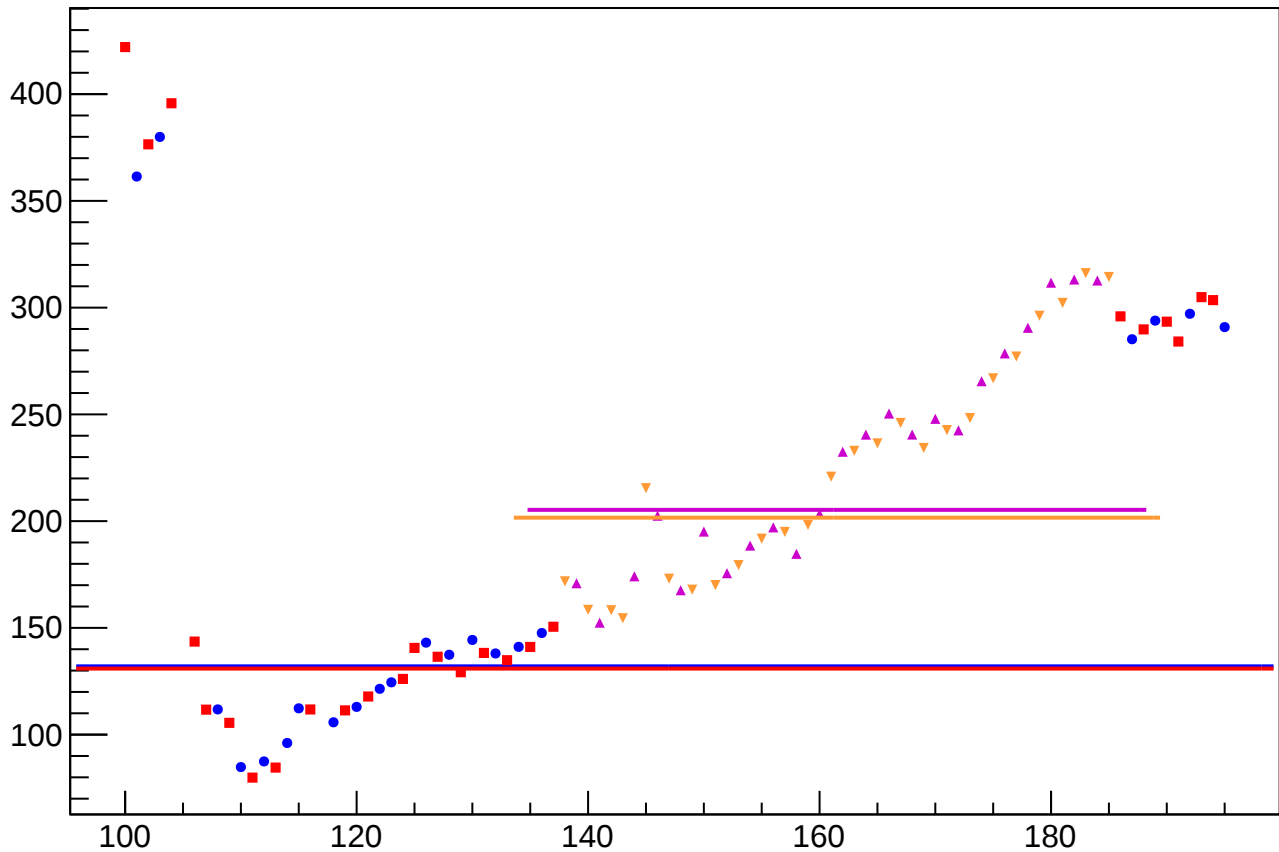
All: 188.923 $\pm$ 0.019 χ^2 /NDF: 7049105.6/93

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 136997.995 $\pm$ 0.049	χ^2/NDF : 45353973585.5/20	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: 137269.271 $\pm$ 0.033	χ^2/NDF : 108389914962
Right Out: 137505.308 $\pm$ 0.045	χ^2/NDF : 62977991667.6/24	In: 141334.757 $\pm$ 0.035	χ^2/NDF : 66420674255.5/4
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 141519.247 $\pm$ 0.033	χ^2/NDF : 84982931999.9
		All: 141432.445 $\pm$ 0.024	χ^2/NDF : 151418219

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 131.975 $\pm$ 0.034 χ^2 /NDF: 2991991.7/20

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

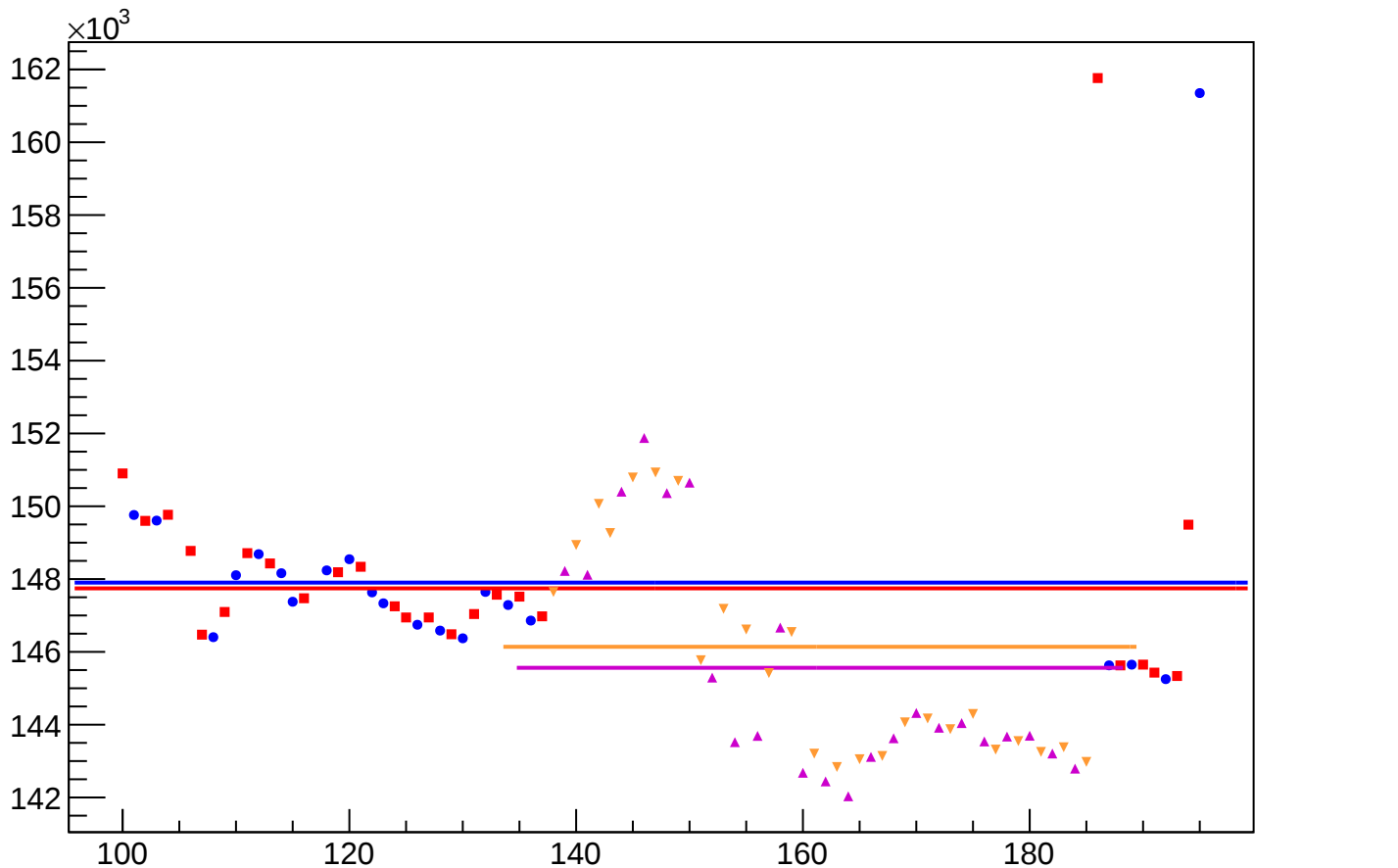
Right: 131.422 $\pm$ 0.024 χ^2 /NDF: 6855749.3/45

In: 167.215 $\pm$ 0.025 χ^2 /NDF:6592987.3/43

Out: 164.142 $\pm$ 0.023 χ^2 /NDF:7724425.3/49

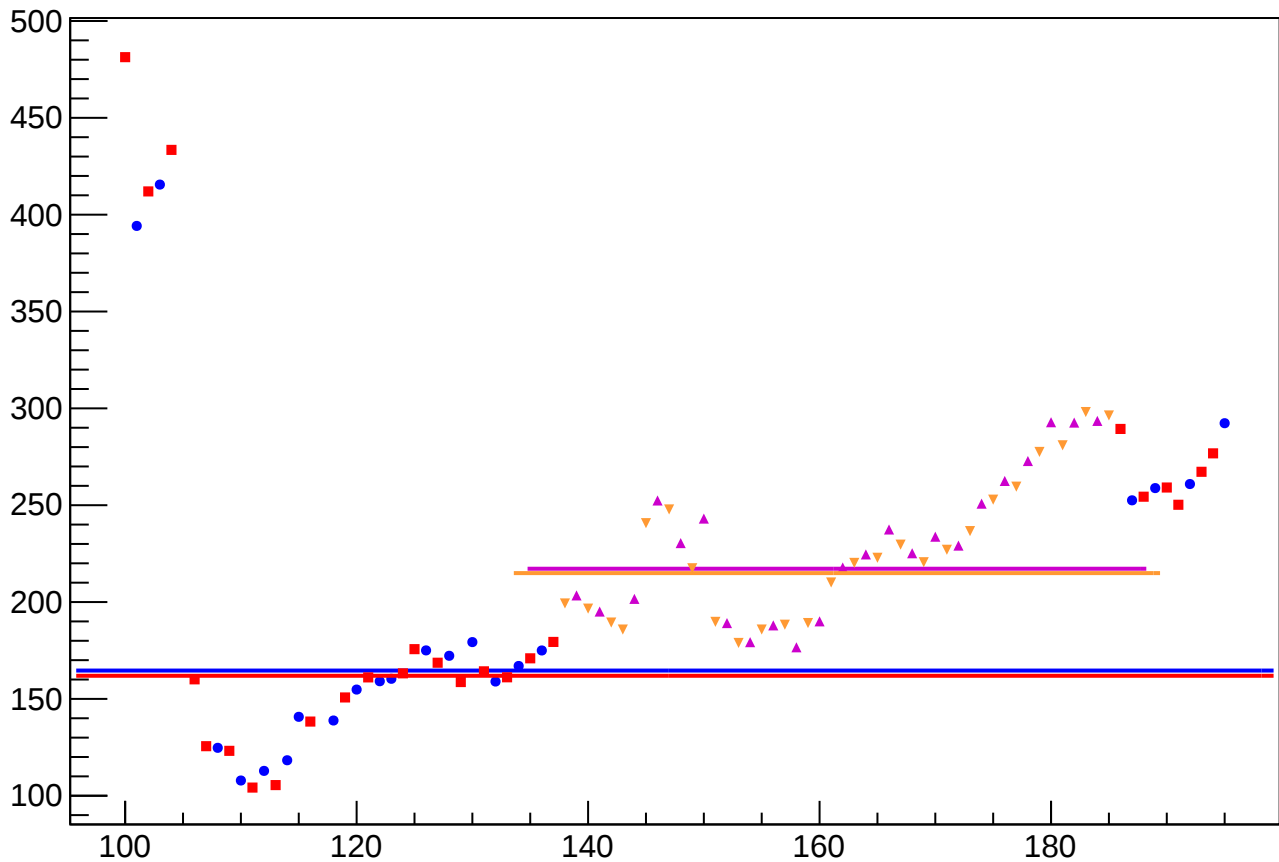
All: 165.588 $\pm$ 0.017 χ^2 /NDF: 14325519.2/93

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147902.609 $\pm$ 0.059	χ^2/NDF : 2099866617.3/20	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: 147816.744 $\pm$ 0.040	χ^2/NDF : 3394430556.6/4
Right Out: 147744.547 $\pm$ 0.054	χ^2/NDF : 1290659168.3/24	In: 146609.842 $\pm$ 0.039	χ^2/NDF : 6024930883.6/43
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: 146760.618 $\pm$ 0.027	χ^2/NDF : 105099693.0/100

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 164.631+/-0.042 χ^2/NDF : 2072929.0/20

Left Out: 214.945+/-0.036 χ^2/NDF : 728515.5/24

Right Out: 161.943+/-0.038 χ^2/NDF : 2596155.1/24

Left In: 217.203+/-0.038 χ^2/NDF : 764798.3/22

Left: 216.027+/-0.026 χ^2/NDF : 1495200.1/47

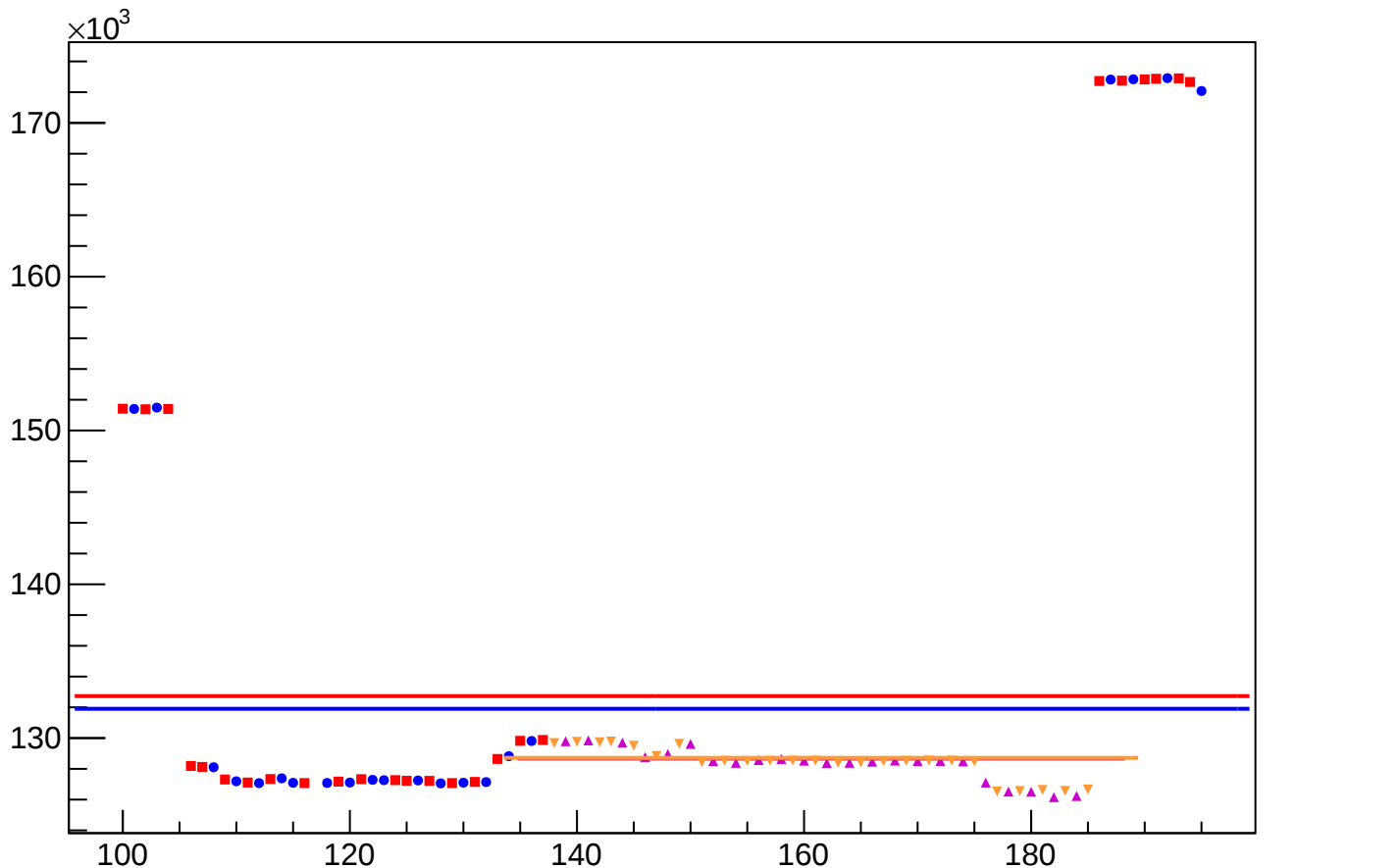
Right: 163.171+/-0.028 χ^2/NDF : 4671343.7/45

In: 193.673+/-0.028 χ^2/NDF : 3716259.8/43

Out: 190.035+/-0.026 χ^2/NDF : 4343648.8/49

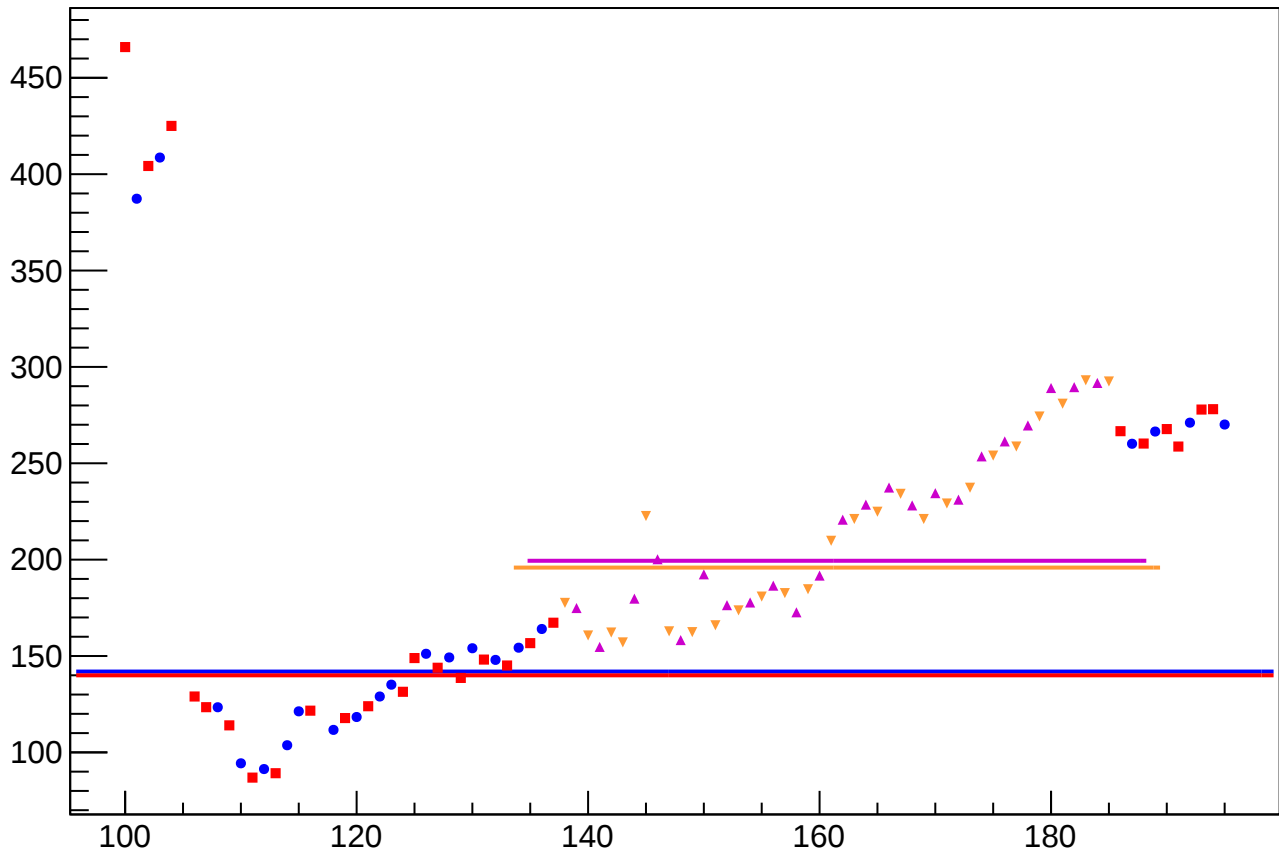
All: 191.741+/-0.019 χ^2/NDF : 8068942.0/93

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 131905.122 $\pm$ 0.052 χ^2 /NDF: 63418619384.6/20
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 132731.441 $\pm$ 0.048 χ^2 /NDF: 88548859425.5/24
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128691.898 $\pm$ 0.034 χ^2 /NDF: 681729975.4/47
 Right: 132352.917 $\pm$ 0.035 χ^2 /NDF: 152105421531
 In: 130196.187 $\pm$ 0.036 χ^2 /NDF: 65814633209.9/4
 Out: 130683.798 $\pm$ 0.033 χ^2 /NDF: 92524532995.8
 All: 130455.895 $\pm$ 0.024 χ^2 /NDF: 15843913

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 141.935 $\pm$ 0.037 χ^2 /NDF: 2637206.7/20

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 139.974 $\pm$ 0.034 χ^2 /NDF: 3298984.1/24

Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

Left: 197.564 $\pm$ 0.024 χ^2 /NDF: 2484502.8/47

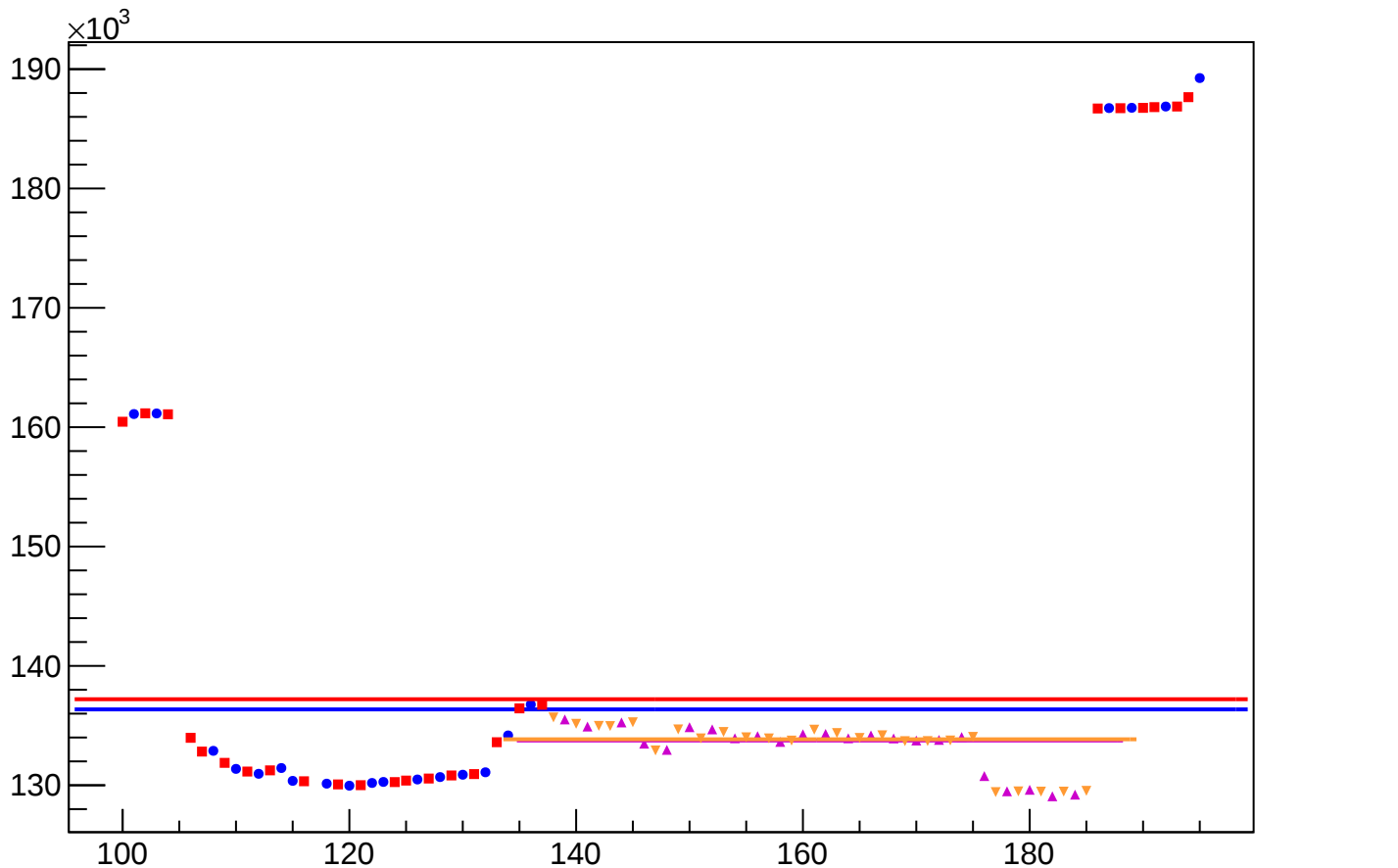
Right: 140.872 $\pm$ 0.025 χ^2 /NDF: 5937744.4/45

In: 172.270 $\pm$ 0.025 χ^2 /NDF:5102931.3/43

Out: 168.474 $\pm$ 0.024 χ^2 /NDF:6017777.1/49

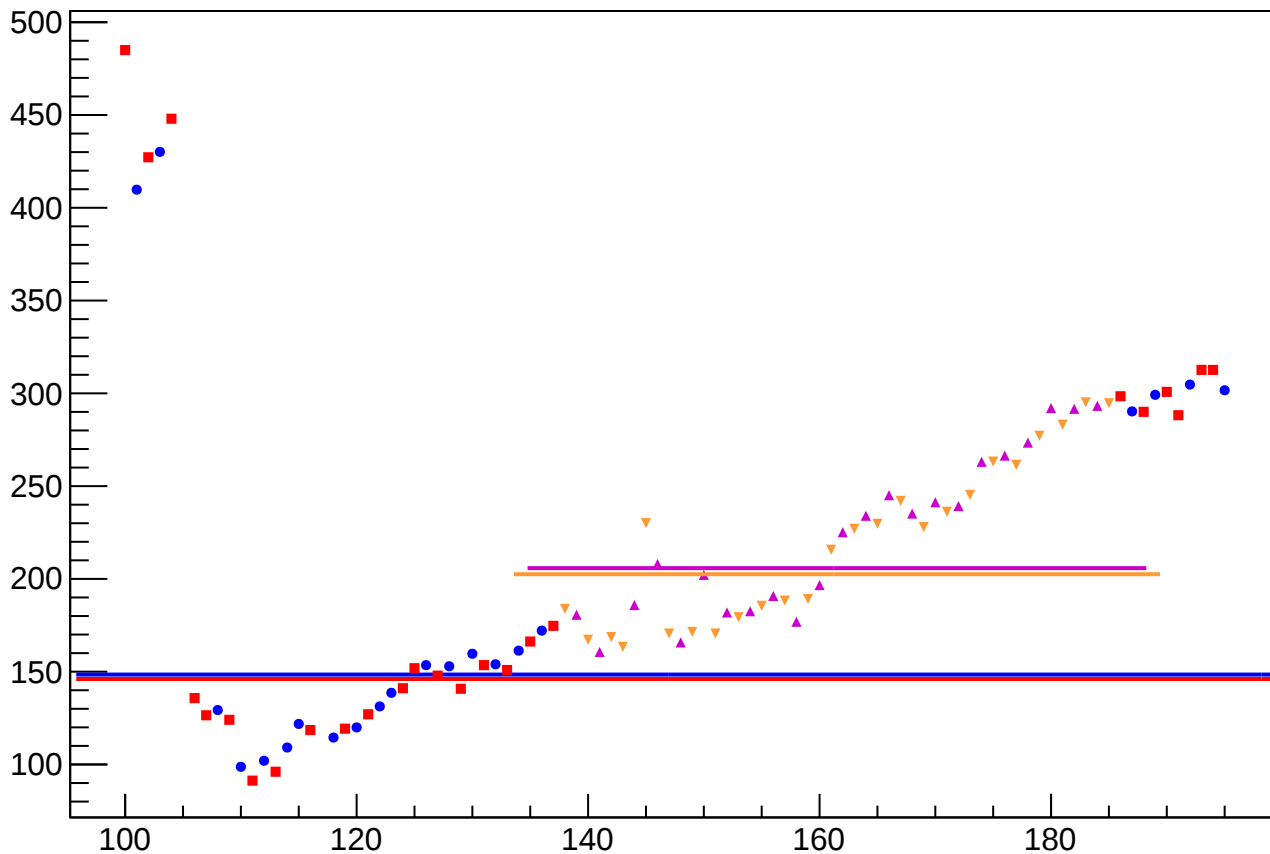
All: 170.248 $\pm$ 0.017 χ^2 /NDF: 11132825.6/93

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 136354.589 $\pm$ 0.054 χ^2 /NDF: 80725985479.9/20
 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: 136816.775 $\pm$ 0.037 χ^2 /NDF: 189635052677
 In: 134955.876 $\pm$ 0.037 χ^2 /NDF: 82911481249.5/4
 Out: 135468.016 $\pm$ 0.035 χ^2 /NDF: 112190923457
 All: 135228.380 $\pm$ 0.025 χ^2 /NDF: 195204264

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 148.450+/-0.038 χ^2/NDF : 2759304.9/20

Left Out: 202.527+/-0.034 χ^2/NDF :1211991.5/24

Right Out: 146.062+/-0.035 χ^2/NDF : 3515085.9/24

Left In: 205.808+/-0.036 χ^2/NDF :1094330.7/22

Left: 204.091+/-0.025 χ^2/NDF : 2310735.8/47

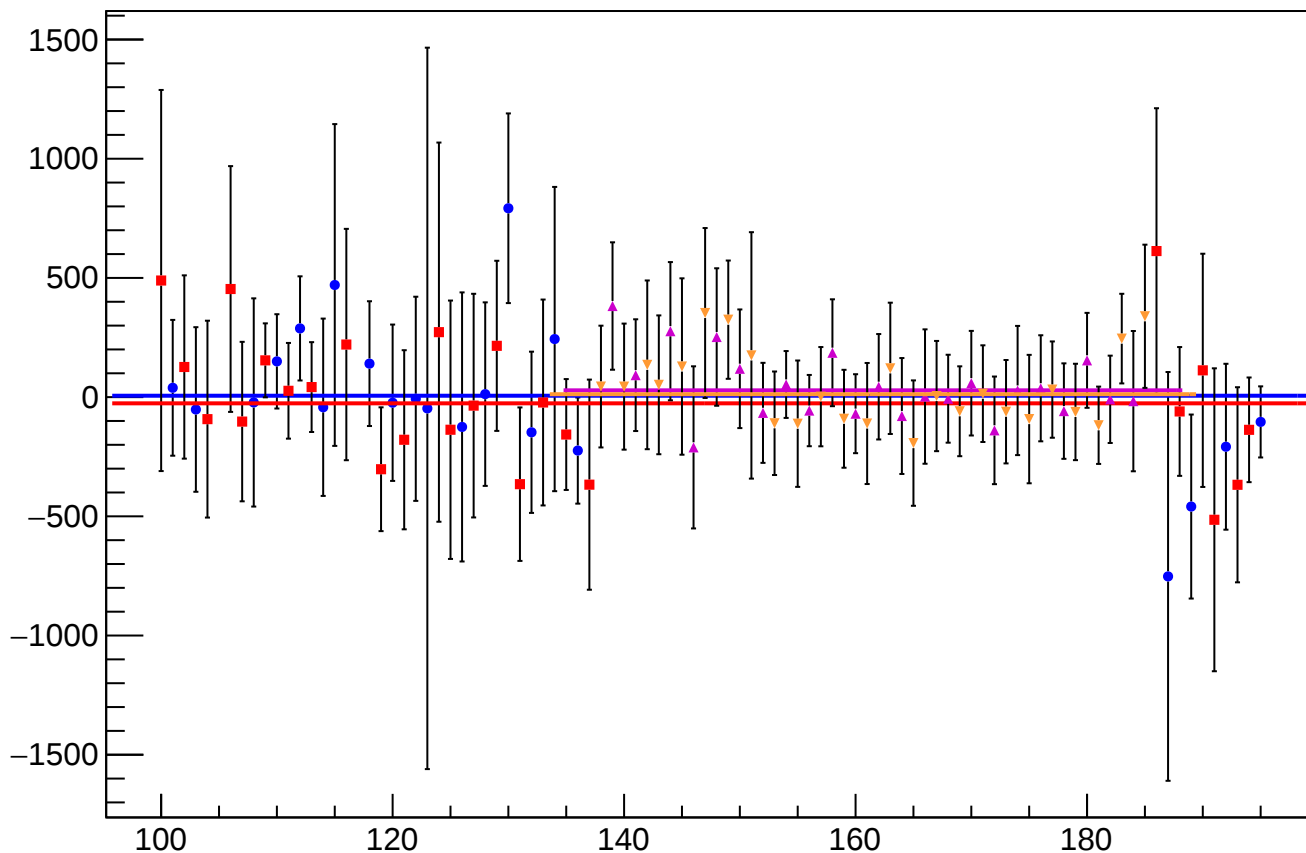
Right: 147.156+/-0.026 χ^2/NDF : 6276480.9/45

In: 179.248+/-0.026 χ^2/NDF :5047676.2/43

Out: 175.320+/-0.025 χ^2/NDF :6048463.6/49

All: 177.158+/-0.018 χ^2/NDF : 11108123.9/93

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 5.874 ± 67.331 χ^2/NDF : 11.5/20

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -26.044 ± 62.809 χ^2/NDF : 10.1/24

Left In: 28.452 ± 44.688 χ^2/NDF : 6.7/22

Left: 20.817 ± 32.558 χ^2/NDF : 15.3/47

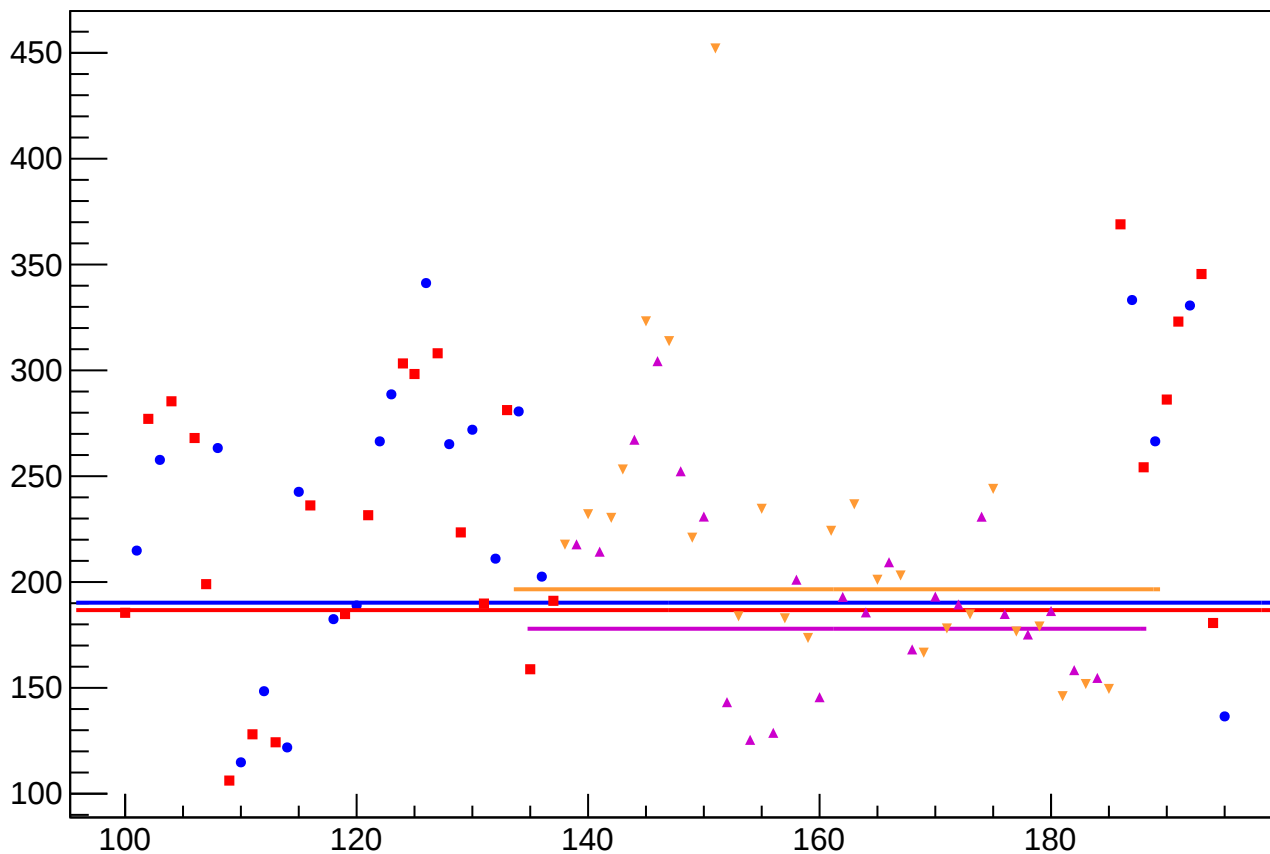
Right: -11.193 ± 45.928 χ^2/NDF : 21.7/45

In: 21.547 ± 37.234 χ^2/NDF : 18.3/43

Out: -1.739 ± 37.902 χ^2/NDF : 18.9/49

All: 10.111 ± 26.561 χ^2/NDF : 37.3/93

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 190.247 $\pm$ 0.048 χ^2 /NDF: 1740709.3/20

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

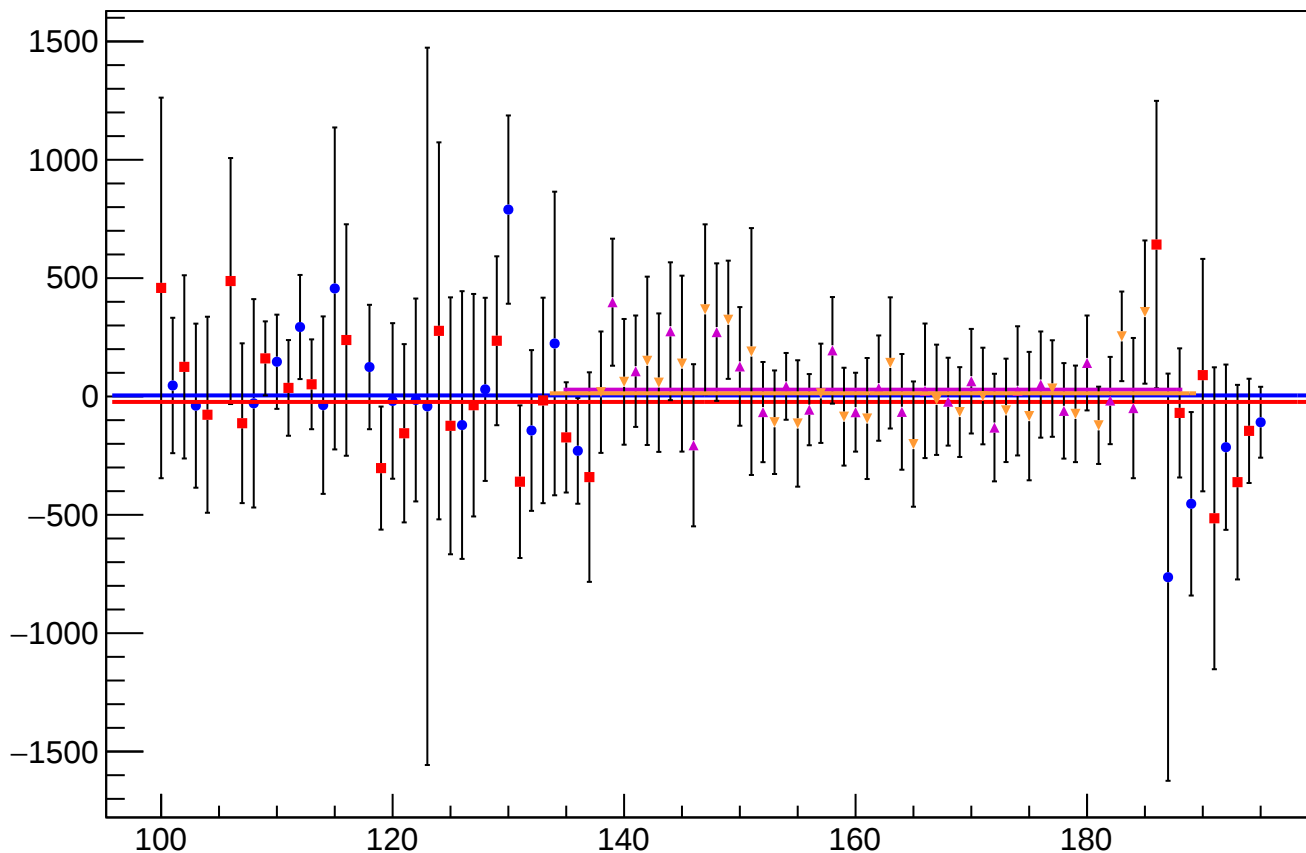
Right: 188.369 $\pm$ 0.032 χ^2 /NDF: 4194235.6/45

In: 181.699 $\pm$ 0.026 χ^2 /NDF:3392930.4/43

Out: 192.993 $\pm$ 0.027 χ^2 /NDF:4260553.0/49

All: 187.245 $\pm$ 0.019 χ^2 /NDF: 7743859.3/93

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 4.506 $\pm$ 67.643 χ^2 /NDF: 11.5/20

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

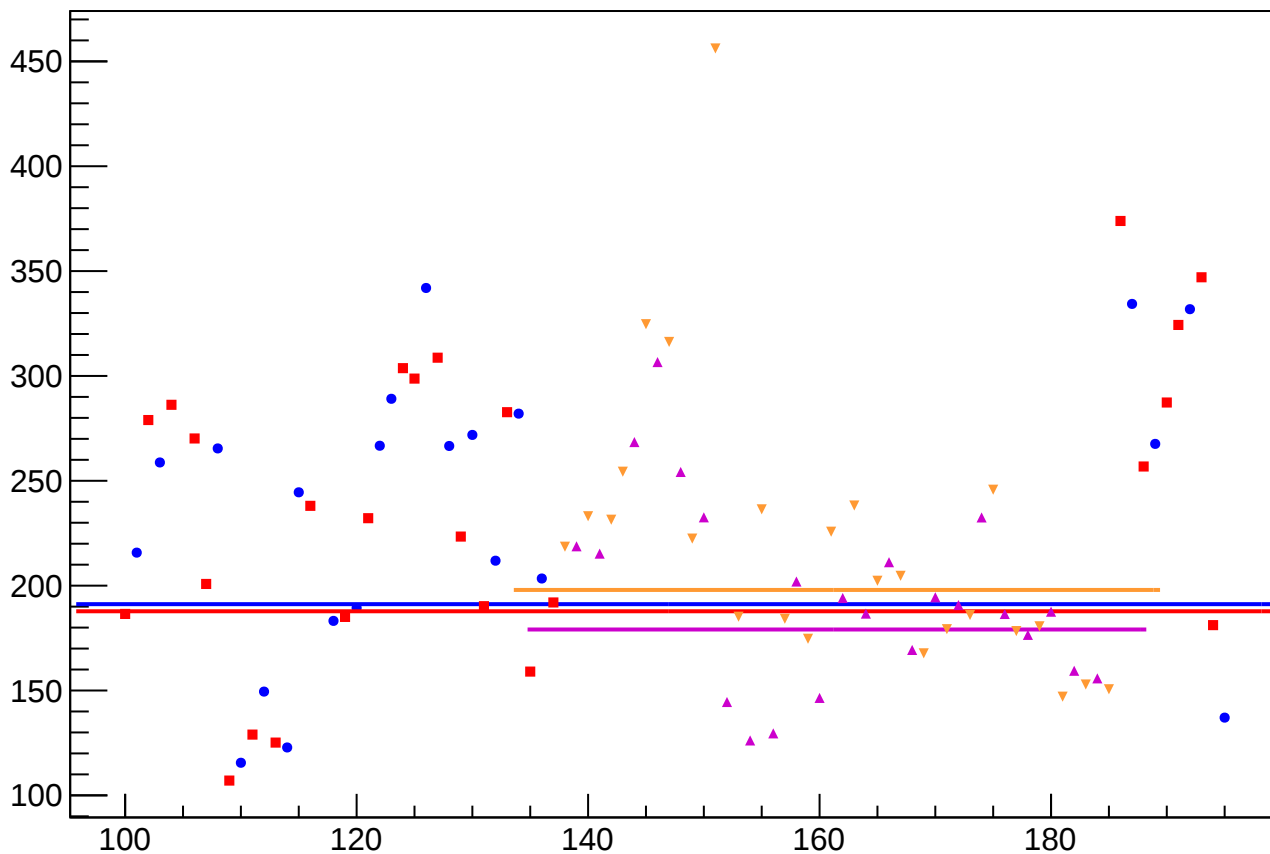
Right: -10.187 $\pm$ 46.160 χ^2 /NDF: 21.9/45

In: 21.356 $\pm$ 37.455 χ^2 /NDF:18.4/43

Out: 0.118 $\pm$ 38.144 χ^2 /NDF:19.5/49

All: 10.930 $\pm$ 26.725 χ^2 /NDF: 38.1/93

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 191.174 $\pm$ 0.048 χ^2 /NDF: 1732385.7/20

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 187.782 $\pm$ 0.045 χ^2 /NDF: 2442790.8/24

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF:1605113.3/22

Left: 187.936 $\pm$ 0.023 χ^2 /NDF: 3544595.8/47

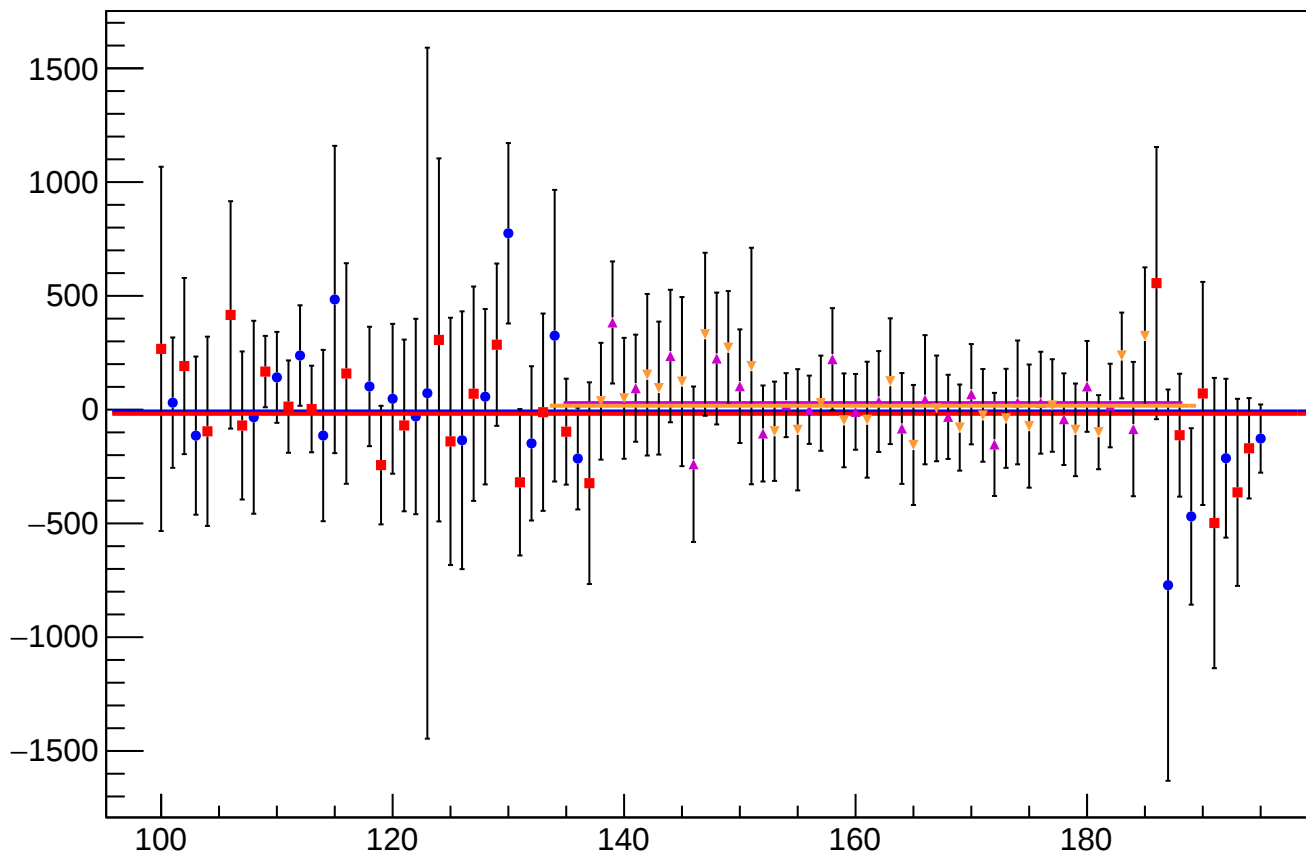
Right: 189.361 $\pm$ 0.033 χ^2 /NDF: 4177863.6/45

In: 182.795 $\pm$ 0.026 χ^2 /NDF:3381756.0/43

Out: 194.242 $\pm$ 0.027 χ^2 /NDF:4250269.2/49

All: 188.414 $\pm$ 0.019 χ^2 /NDF: 7723726.6/93

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -7.993 ± 67.655 $\chi^2/\text{NDF}: 11.2/20$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -18.323 ± 63.051 $\chi^2/\text{NDF}: 8.8/24$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

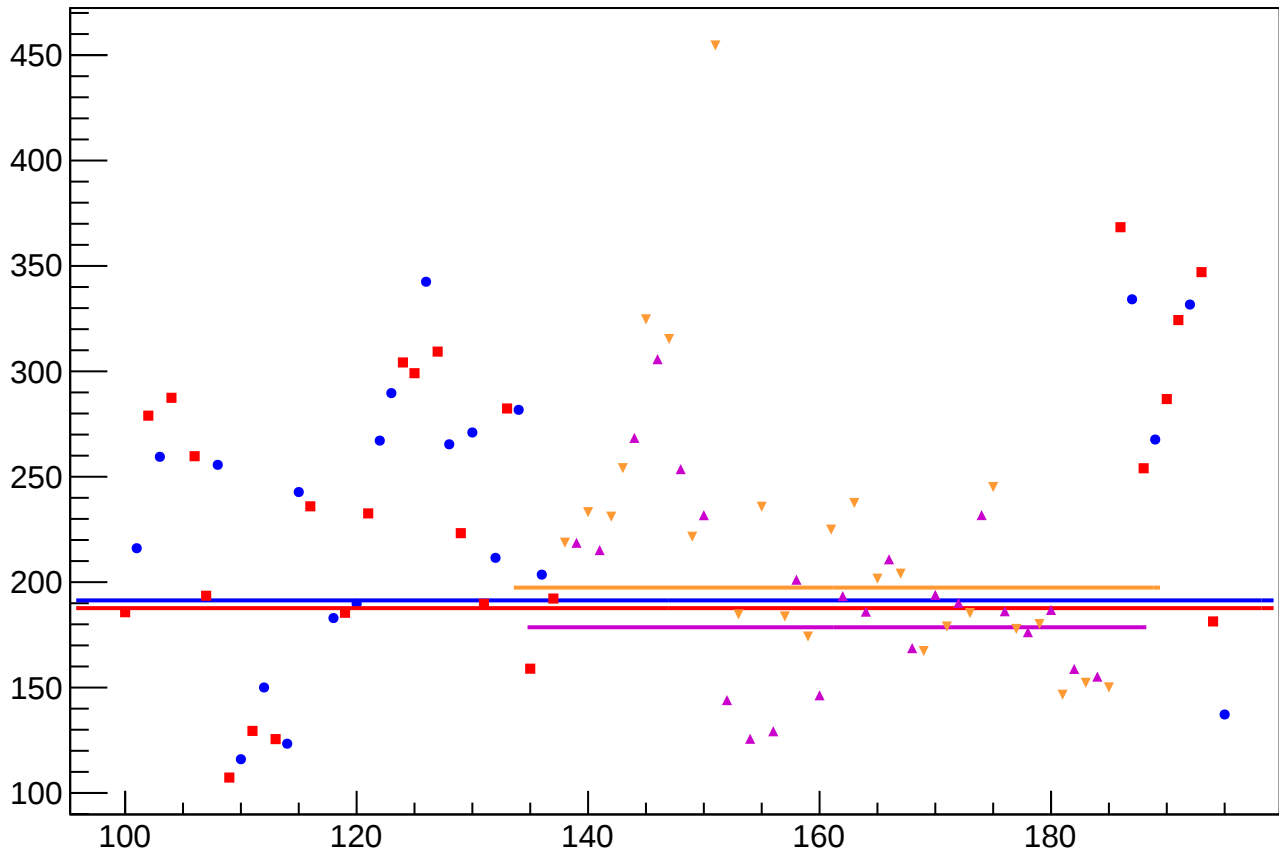
Right: -13.521 ± 46.126 $\chi^2/\text{NDF}: 20.0/45$

In: 17.464 ± 37.387 $\chi^2/\text{NDF}: 17.5/43$

Out: 4.219 ± 38.059 $\chi^2/\text{NDF}: 16.1/49$

All: 10.960 ± 26.671 $\chi^2/\text{NDF}: 33.7/93$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 191.350 ± 0.048 $\chi^2/\text{NDF}: 1708133.3/20$

Left Out: 197.422 ± 0.034 $\chi^2/\text{NDF}: 1780261.9/24$

Right Out: 187.673 ± 0.045 $\chi^2/\text{NDF}: 2406324.9/24$

Left In: 178.601 ± 0.032 $\chi^2/\text{NDF}: 1608998.1/22$

Left: 187.427 ± 0.023 $\chi^2/\text{NDF}: 3554344.1/47$

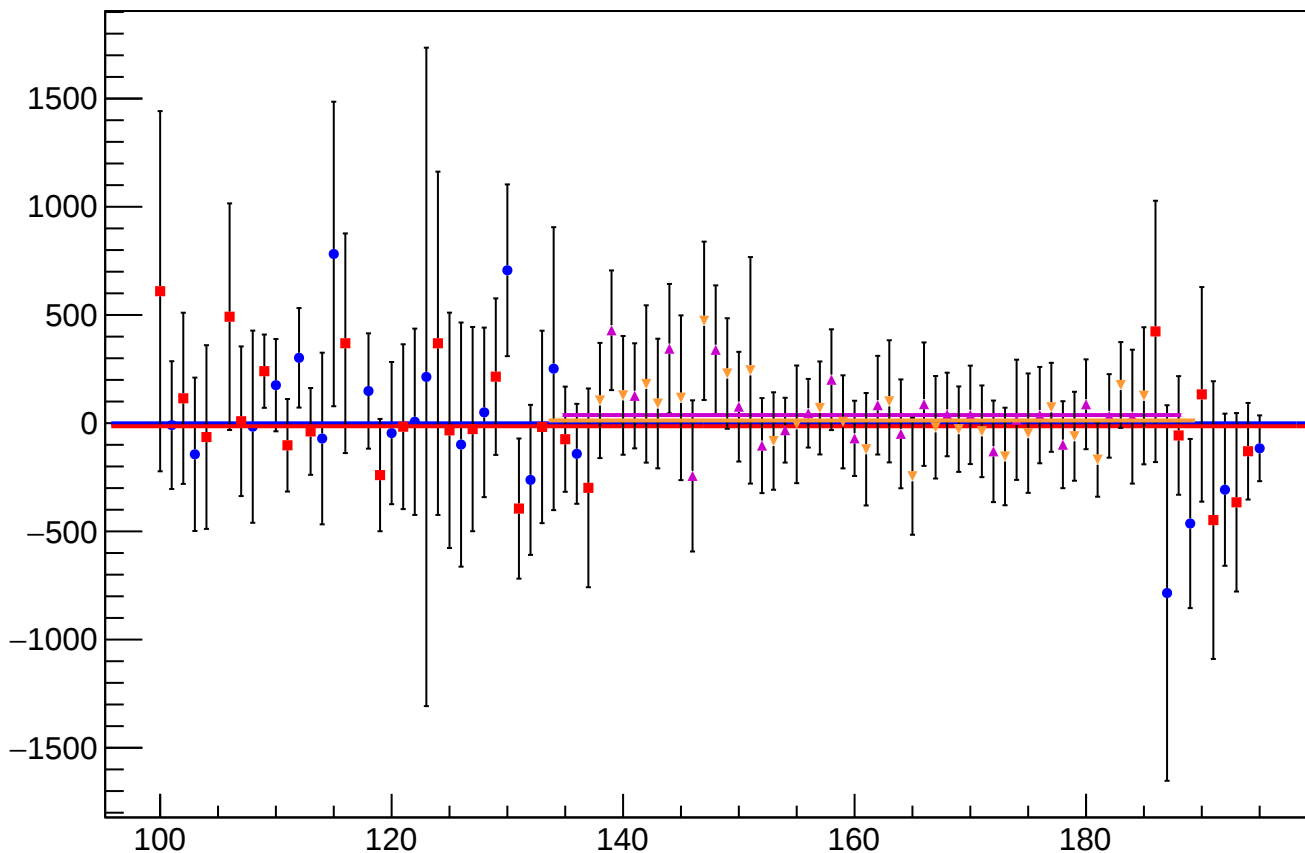
Right: 189.382 ± 0.033 $\chi^2/\text{NDF}: 4117620.6/45$

In: 182.495 ± 0.026 $\chi^2/\text{NDF}: 3366464.4/43$

Out: 193.870 ± 0.027 $\chi^2/\text{NDF}: 4216977.2/49$

All: 188.081 ± 0.019 $\chi^2/\text{NDF}: 7674357.2/93$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -0.754 ± 69.407 $\chi^2/\text{NDF}: 12.1/20$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -14.224 ± 65.303 $\chi^2/\text{NDF}: 9.9/24$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

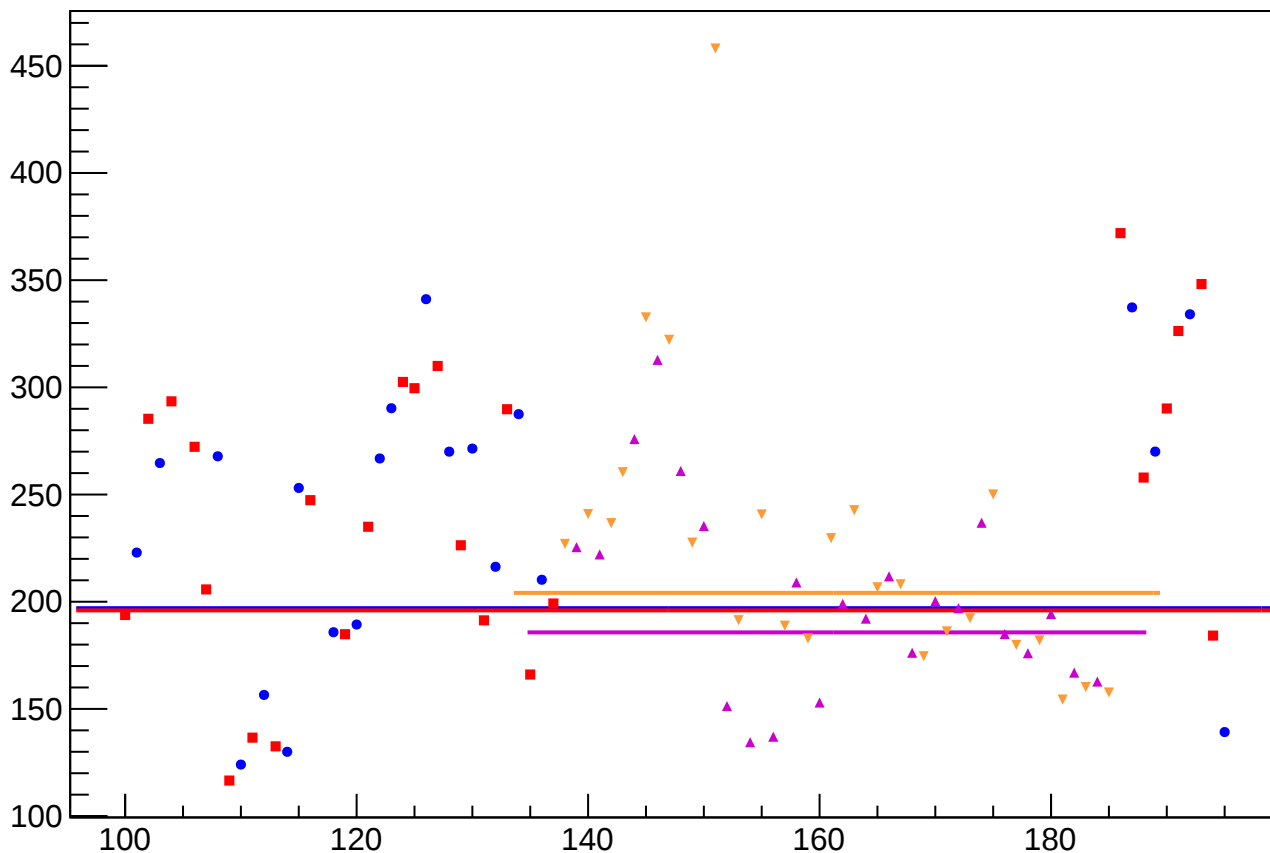
Right: -7.899 ± 47.561 $\chi^2/\text{NDF}: 22.0/45$

In: 25.629 ± 38.619 $\chi^2/\text{NDF}: 19.9/43$

Out: 2.897 ± 39.317 $\chi^2/\text{NDF}: 17.6/49$

All: 14.467 ± 27.551 $\chi^2/\text{NDF}: 37.7/93$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 196.985+/-0.049 χ^2/NDF : 1606667.0/20

Left Out: 204.132+/-0.035 χ^2/NDF : 1672287.6/24

Right Out: 195.964+/-0.046 χ^2/NDF : 2154788.8/24

Left In: 185.694+/-0.033 χ^2/NDF : 1447767.0/22

Left: 194.381+/-0.024 χ^2/NDF : 3268347.9/47

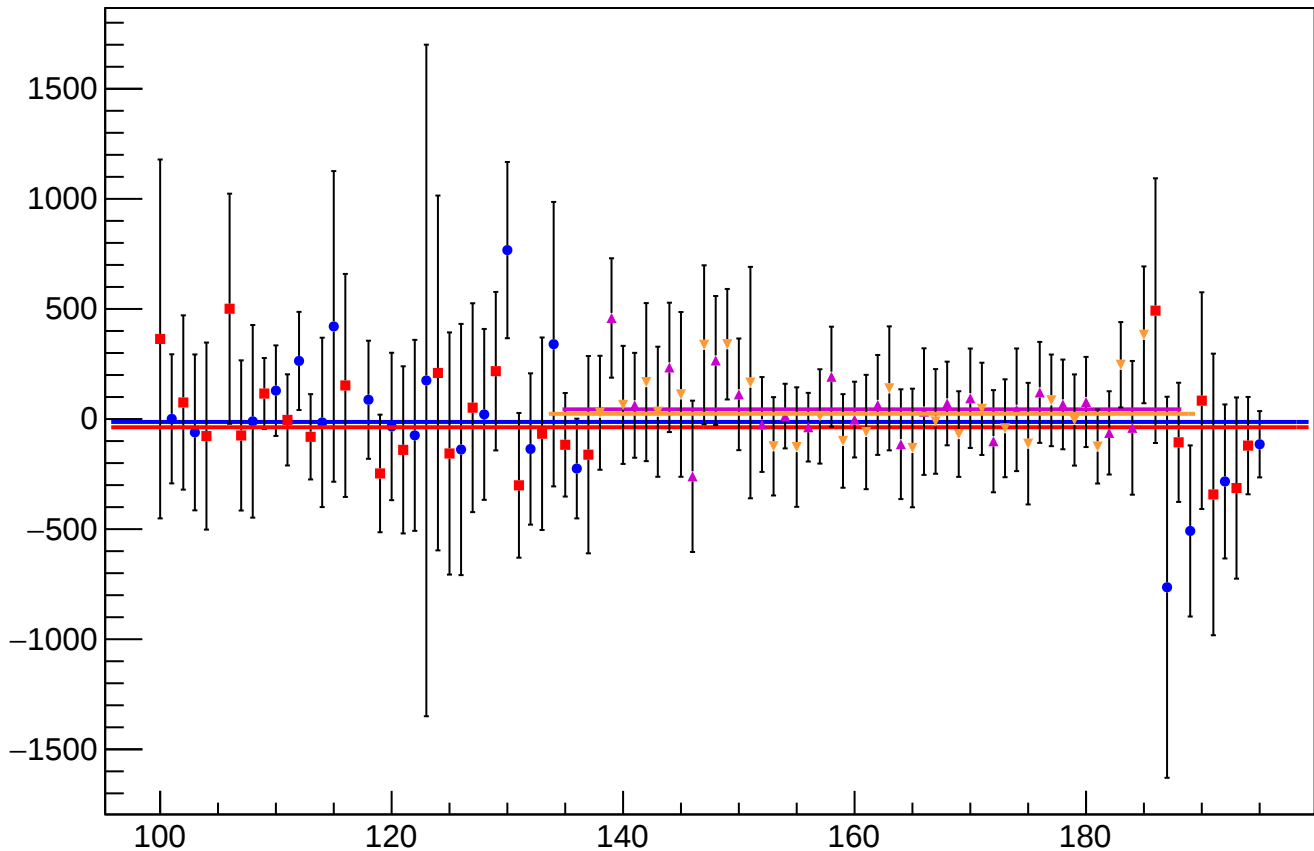
Right: 196.443+/-0.034 χ^2/NDF : 3761685.8/45

In: 189.190+/-0.027 χ^2/NDF : 3090980.4/43

Out: 201.171+/-0.028 χ^2/NDF : 3847025.1/49

All: 195.073+/-0.019 χ^2/NDF : 7032532.7/93

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -13.139 ± 68.592 $\chi^2/\text{NDF}: 11.2/20$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -37.317 ± 64.163 $\chi^2/\text{NDF}: 6.5/24$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

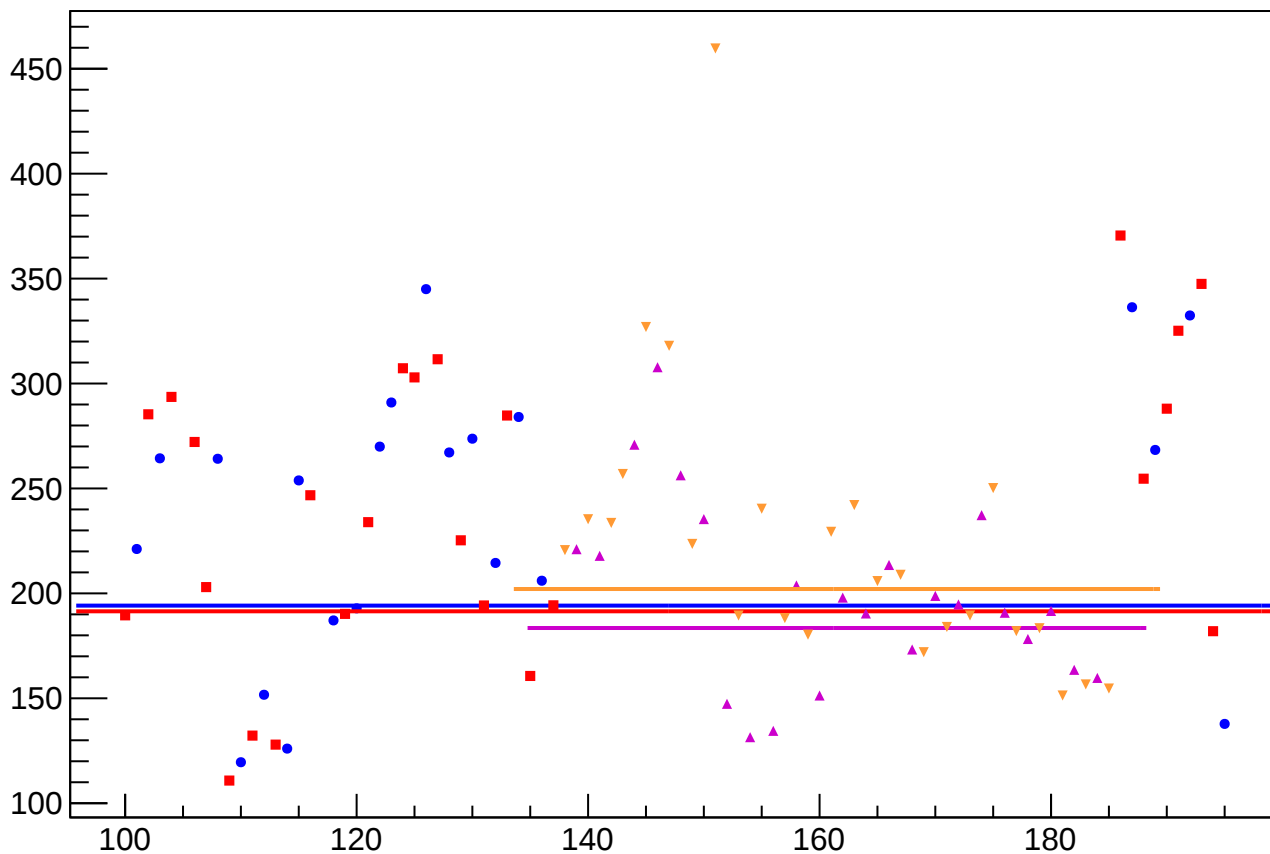
Right: -26.034 ± 46.858 $\chi^2/\text{NDF}: 17.7/45$

In: 26.270 ± 38.193 $\chi^2/\text{NDF}: 18.2/43$

Out: 1.440 ± 38.834 $\chi^2/\text{NDF}: 15.5/49$

All: 14.061 ± 27.230 $\chi^2/\text{NDF}: 33.9/93$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 194.172 $\pm$ 0.049 χ^2/NDF : 1690855.3/20

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

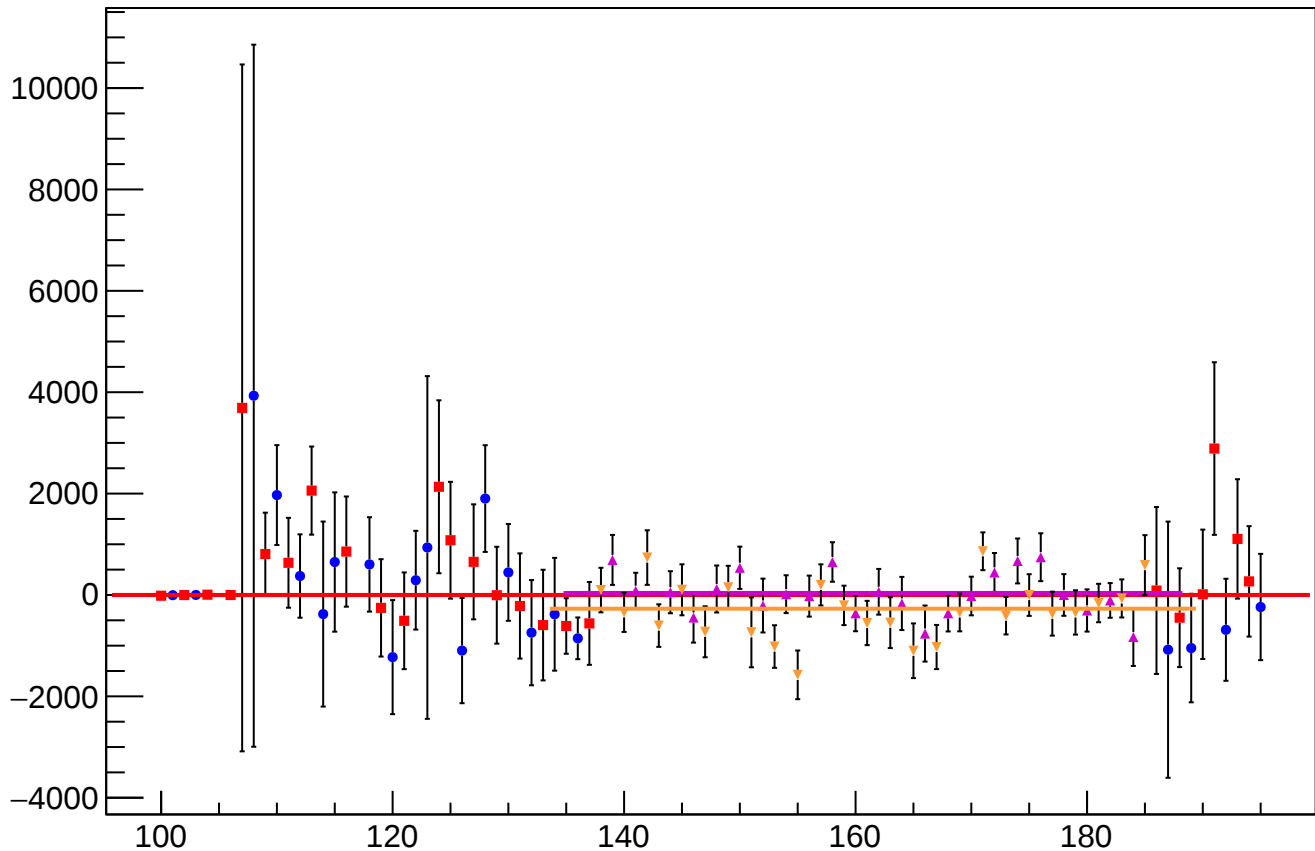
Right: 192.723 $\pm$ 0.033 χ^2/NDF : 4035583.4/45

In: 186.807 $\pm$ 0.027 χ^2/NDF :3207651.7/43

Out: 198.189 $\pm$ 0.027 χ^2/NDF :4070596.6/49

All: 192.403 $\pm$ 0.019 χ^2/NDF : 7365570.6/93

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.540 ± 2.251 χ^2/NDF : 19.1/20

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

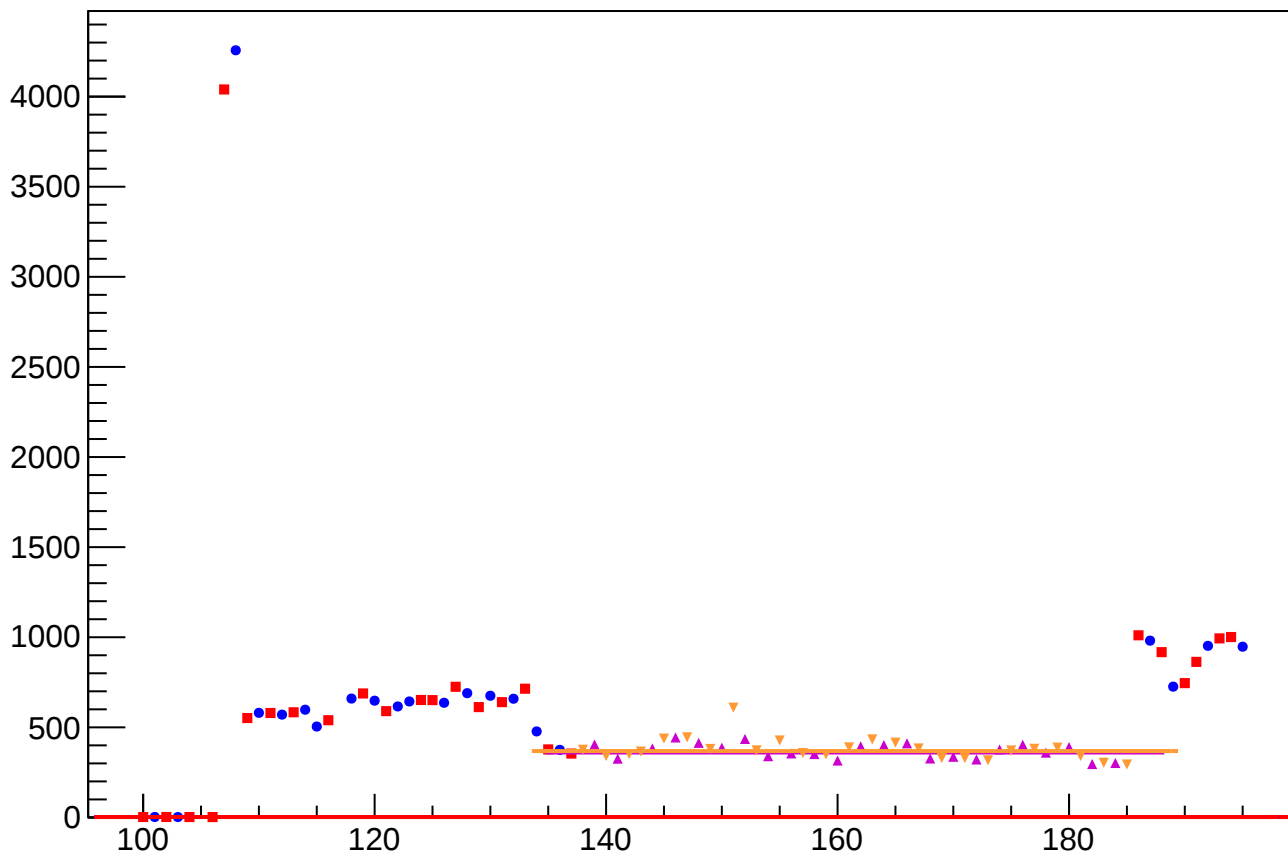
Right: -0.330 ± 1.540 χ^2/NDF : 42.8/45

In: -1.513 ± 2.251 χ^2/NDF : 39.5/43

Out: 0.573 ± 2.110 χ^2/NDF : 71.0/49

All: -0.403 ± 1.540 χ^2/NDF : 111.0/93

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.469 $\pm$ 0.002 χ^2 /NDF: 15429933.2/20

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

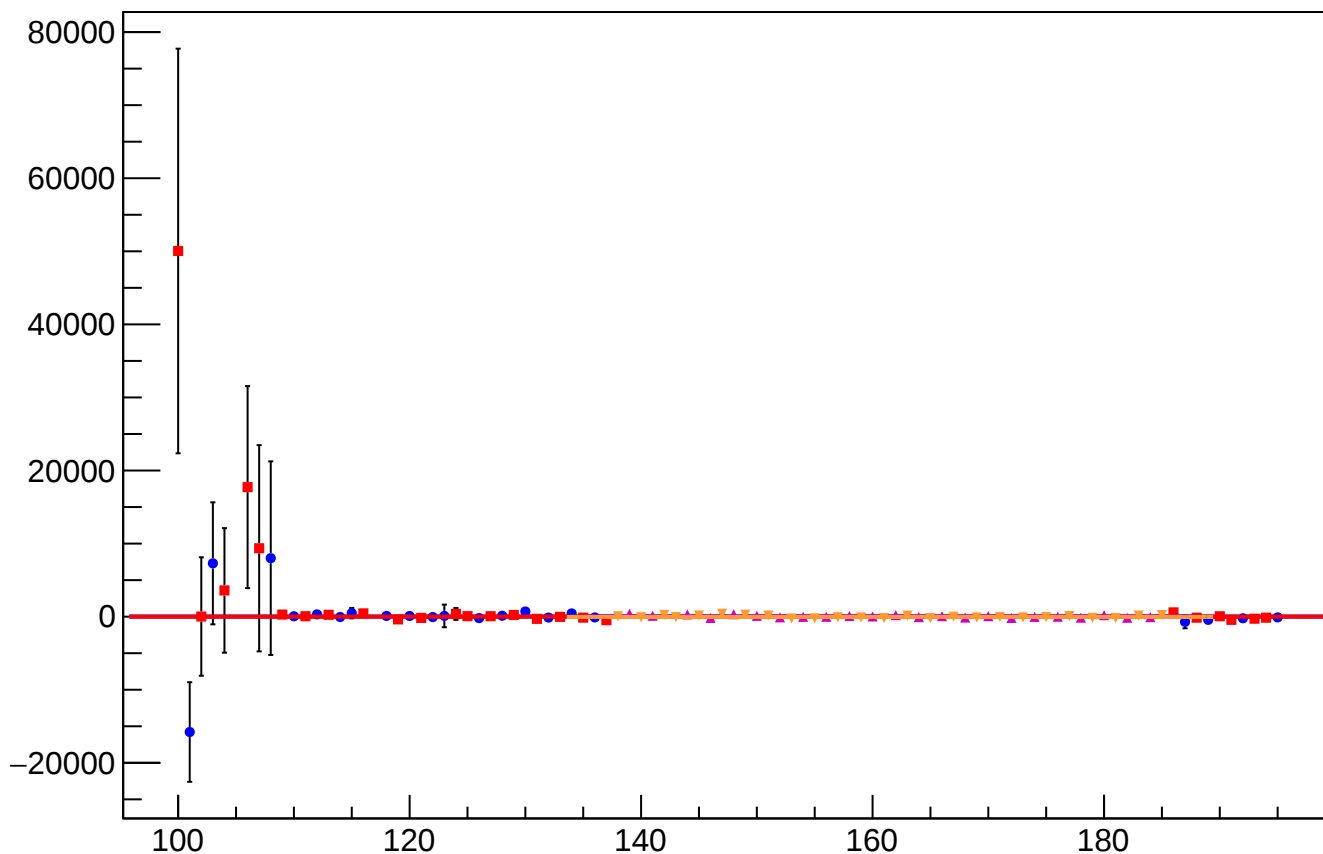
Right: 2.461 $\pm$ 0.001 χ^2 /NDF: 33332707.0/45

In: 2.705 $\pm$ 0.002 χ^2 /NDF: 49088726.3/43

Out: 2.668 $\pm$ 0.001 χ^2 /NDF: 53916098.1/49

All: 2.685 $\pm$ 0.001 χ^2 /NDF: 103005105.1/93

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 17.982 $\pm$ 76.181 χ^2 /NDF: 15.8/20

Left Out: -38.013 $\pm$ 49.628 χ^2 /NDF: 9.3/24

Right Out: 1.814 $\pm$ 73.527 χ^2 /NDF: 16.6/24

Left In: 28.205 $\pm$ 48.167 χ^2 /NDF: 9.2/22

Left: -3.915 $\pm$ 34.564 χ^2 /NDF: 19.4/47

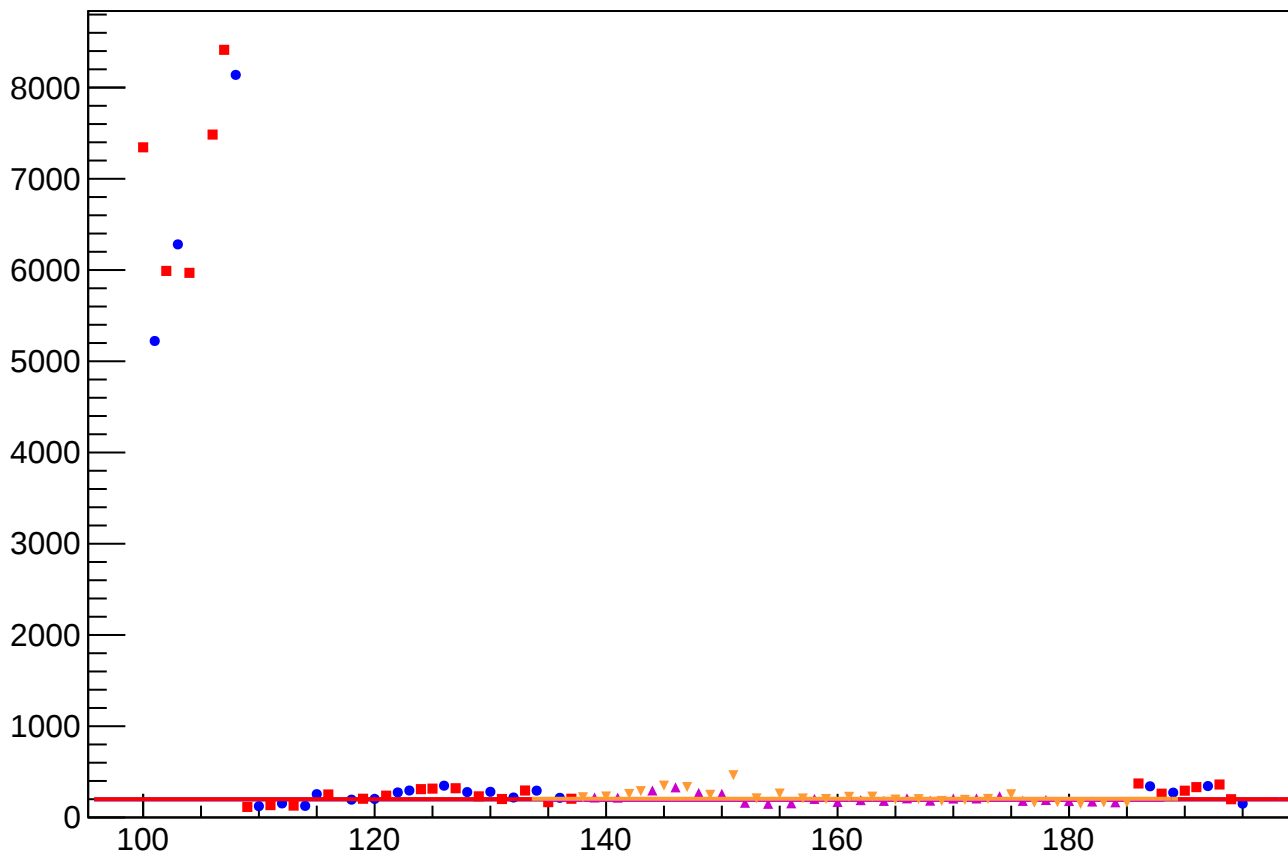
Right: 9.611 $\pm$ 52.905 χ^2 /NDF: 32.4/45

In: 25.285 $\pm$ 40.712 χ^2 /NDF: 25.0/43

Out: -25.548 $\pm$ 41.135 χ^2 /NDF: 26.1/49

All: 0.131 $\pm$ 28.936 χ^2 /NDF: 51.9/93

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.920 $\pm$ 0.054 χ^2 /NDF: 4306464.4/20

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

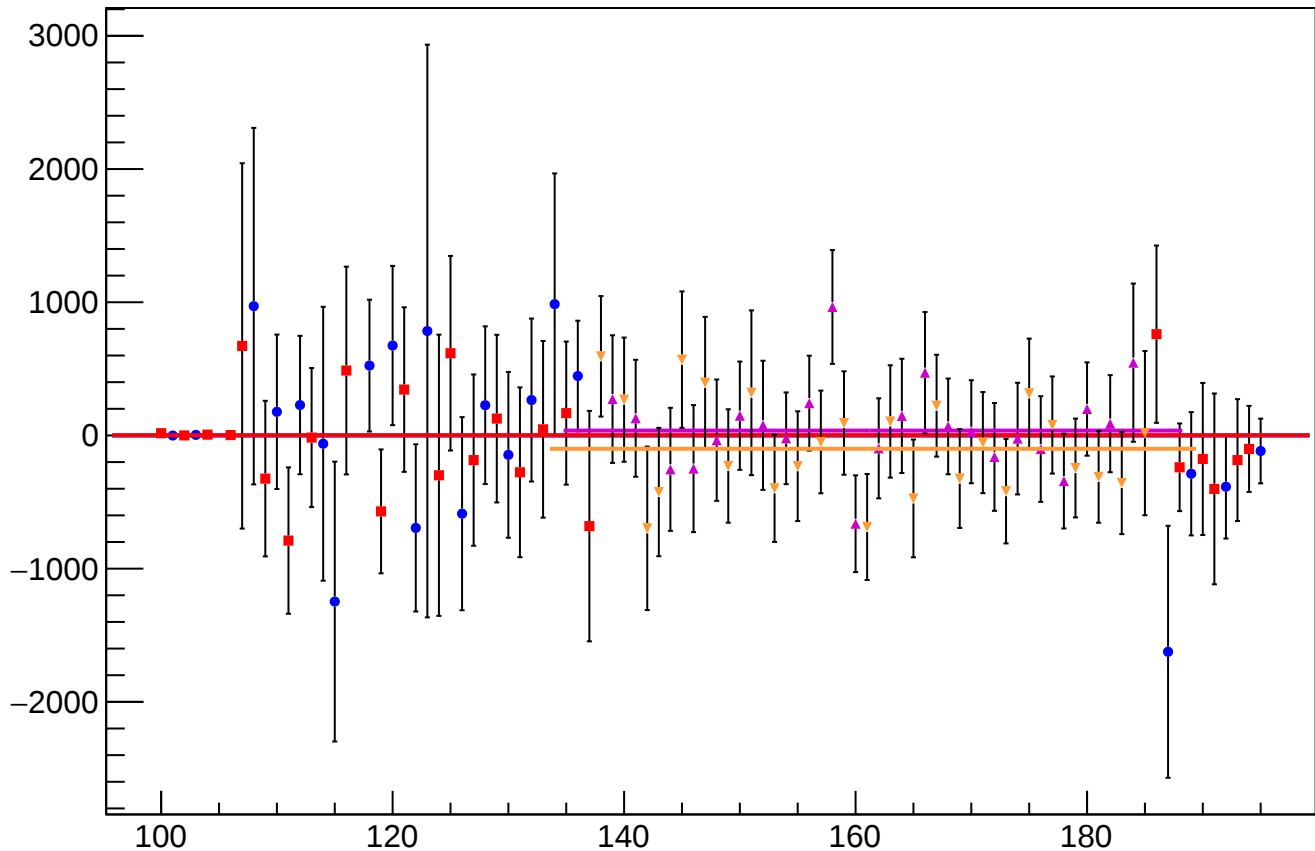
Right: 198.953 $\pm$ 0.037 χ^2 /NDF: 9430695.2/45

In: 194.694 $\pm$ 0.029 χ^2 /NDF:5483652.7/43

Out: 203.427 $\pm$ 0.029 χ^2 /NDF:7086205.3/49

All: 199.016 $\pm$ 0.020 χ^2 /NDF: 12615394.6/93

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.163 ± 1.737 χ^2/NDF : 14.6/20

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.313 ± 1.622 χ^2/NDF : 11.9/24

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

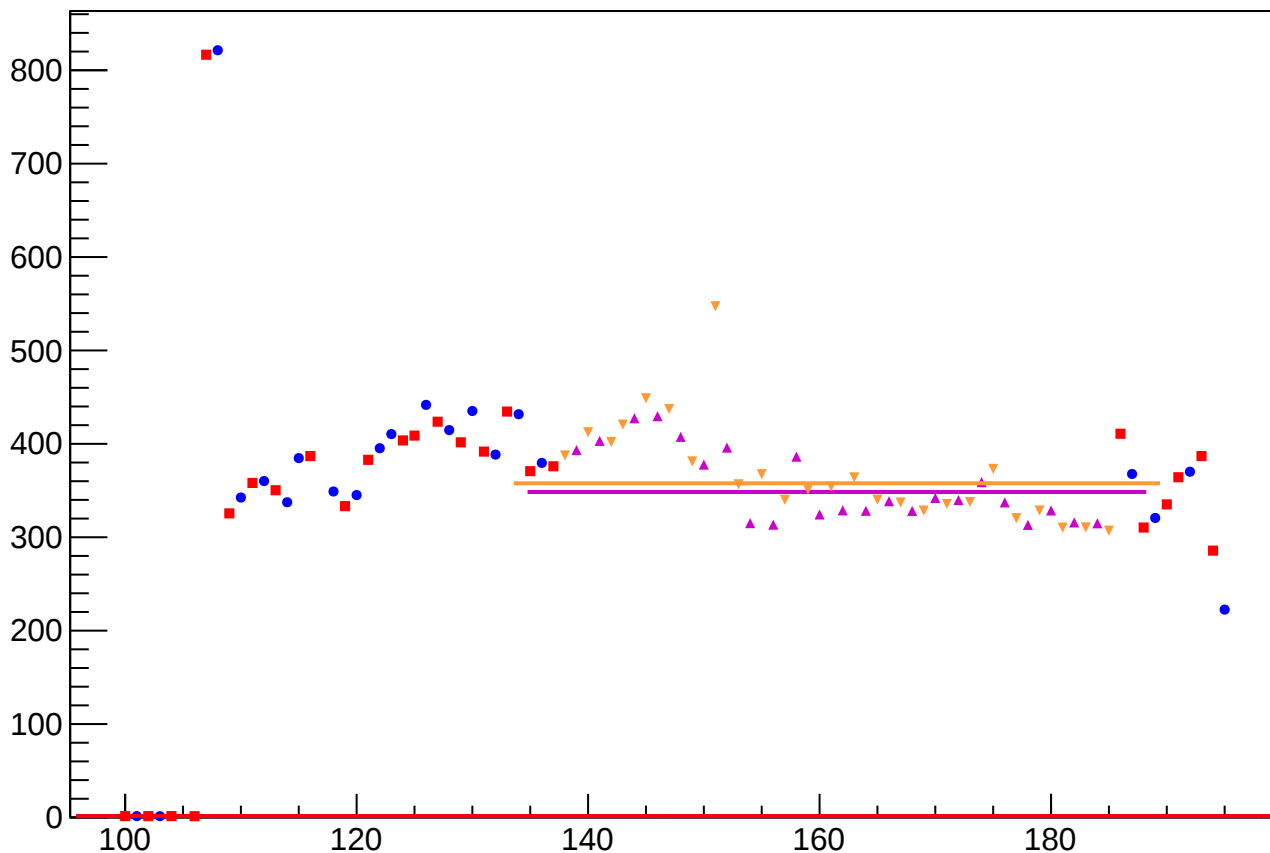
Right: 0.625 ± 1.186 χ^2/NDF : 26.9/45

In: -0.147 ± 1.736 χ^2/NDF : 28.3/43

Out: 1.275 ± 1.622 χ^2/NDF : 29.1/49

All: 0.612 ± 1.185 χ^2/NDF : 57.7/93

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.477 $\pm$ 0.001 χ^2 /NDF: 15618222.7/20

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.477 $\pm$ 0.001 χ^2 /NDF: 17523371.1/24

Left In: 348.464 $\pm$ 0.060 χ^2 /NDF: 360425.7/22

Left: 353.145 $\pm$ 0.042 χ^2 /NDF: 919701.2/47

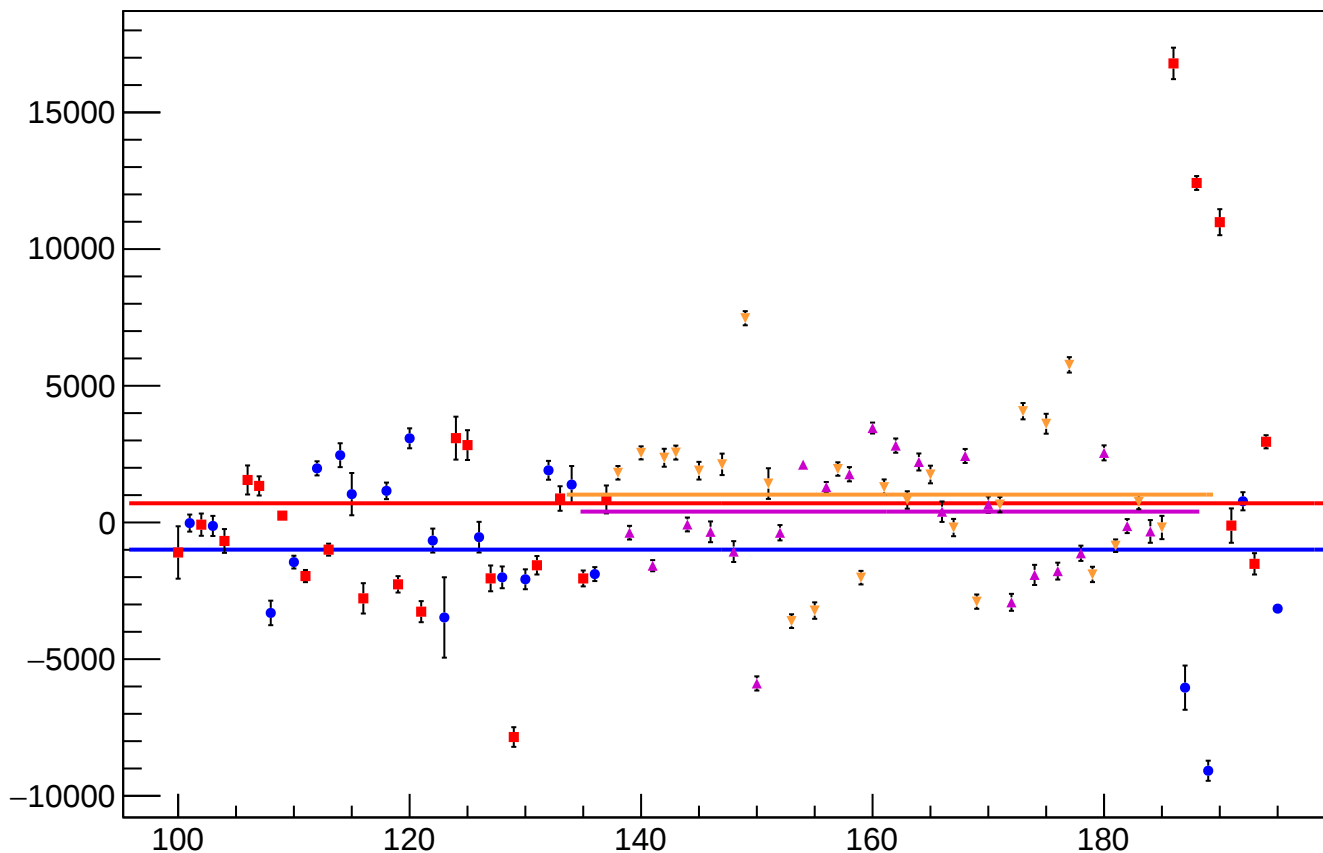
Right: 1.477 $\pm$ 0.001 χ^2 /NDF: 33141593.9/45

In: 1.623 $\pm$ 0.001 χ^2 /NDF: 49549368.0/43

Out: 1.610 $\pm$ 0.001 χ^2 /NDF: 53877372.7/49

All: 1.616 $\pm$ 0.001 χ^2 /NDF: 103426801.8/93

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -993.797+/-74.640 χ^2/NDF : 1235.3/20

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: 701.460+/-68.713 χ^2/NDF : 4731.5/24

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

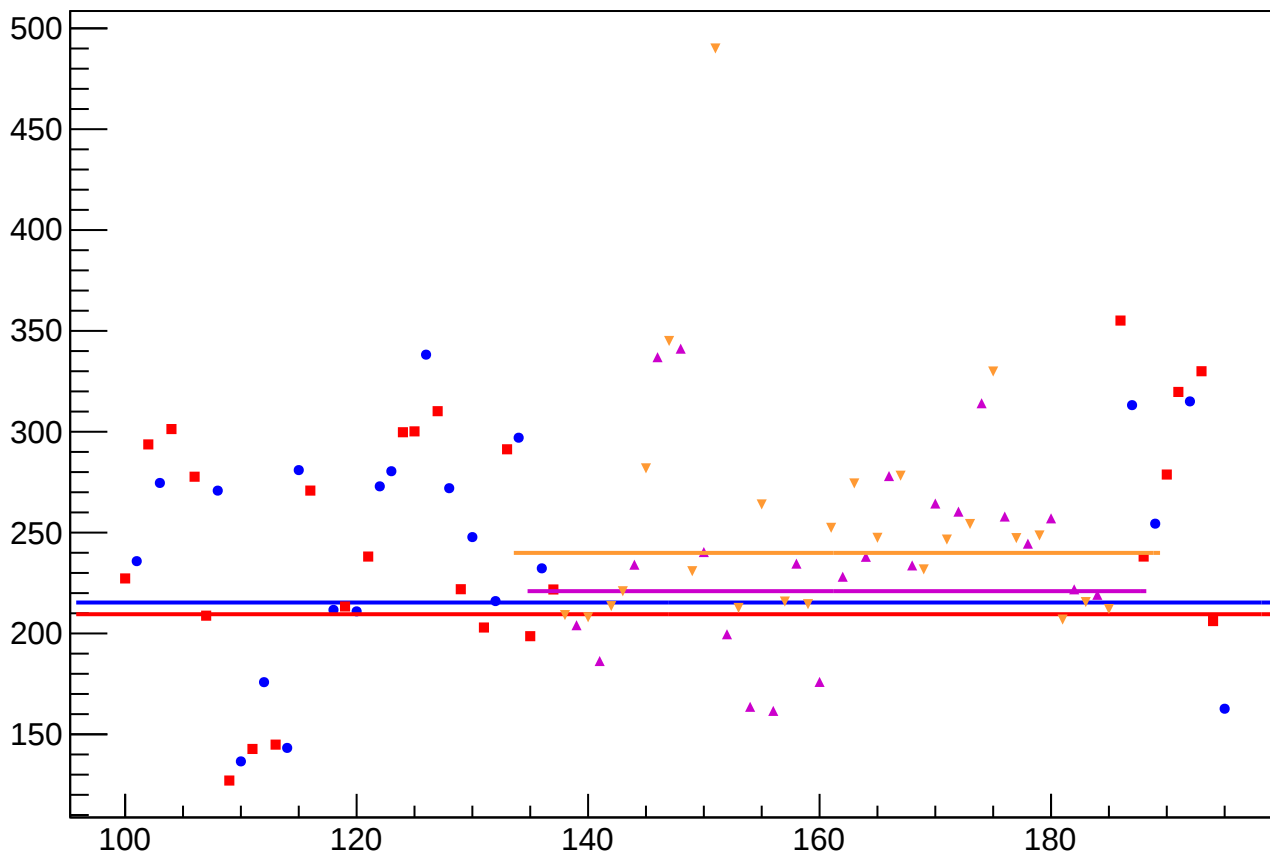
Right: -76.196+/-50.553 χ^2/NDF : 6246.1/45

In: -93.715+/-44.324 χ^2/NDF : 3041.0/43

Out: 888.462+/-44.053 χ^2/NDF : 7054.2/49

All: 400.392+/-31.246 χ^2/NDF : 10342.2/93

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 215.340 $\pm$ 0.053 χ^2 /NDF: 1070840.8/20

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 209.539 $\pm$ 0.049 χ^2 /NDF: 1696385.0/24

Left In: 220.972 $\pm$ 0.039 χ^2 /NDF:1327680.6/22

Left: 230.067 $\pm$ 0.028 χ^2 /NDF: 2442154.9/47

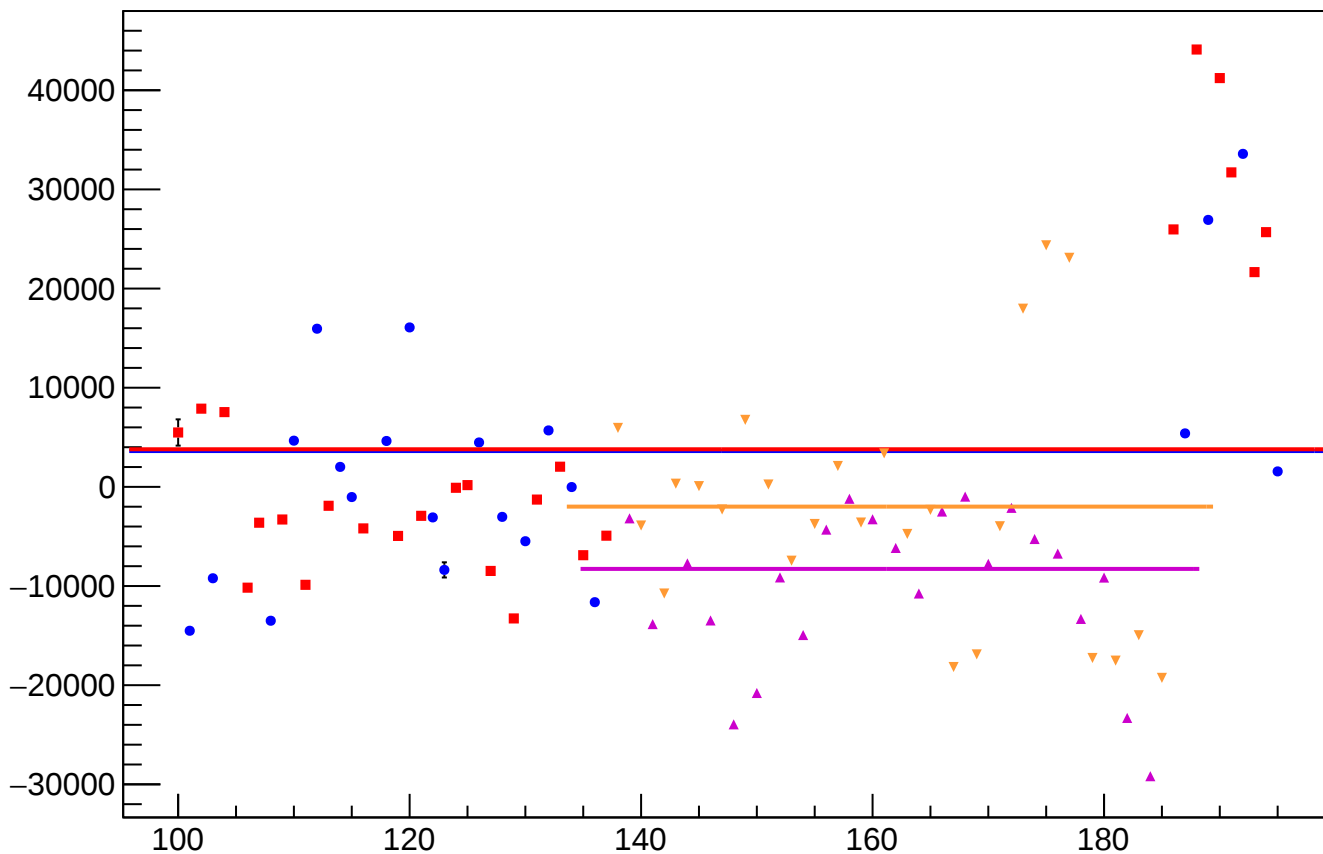
Right: 212.200 $\pm$ 0.036 χ^2 /NDF: 2773766.6/45

In: 218.986 $\pm$ 0.031 χ^2 /NDF:2405890.4/43

Out: 227.445 $\pm$ 0.031 χ^2 /NDF:2927767.4/49

All: 223.242 $\pm$ 0.022 χ^2 /NDF: 5370306.9/93

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3612.301+/-49.489 χ^2/NDF : 68100.6/20

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

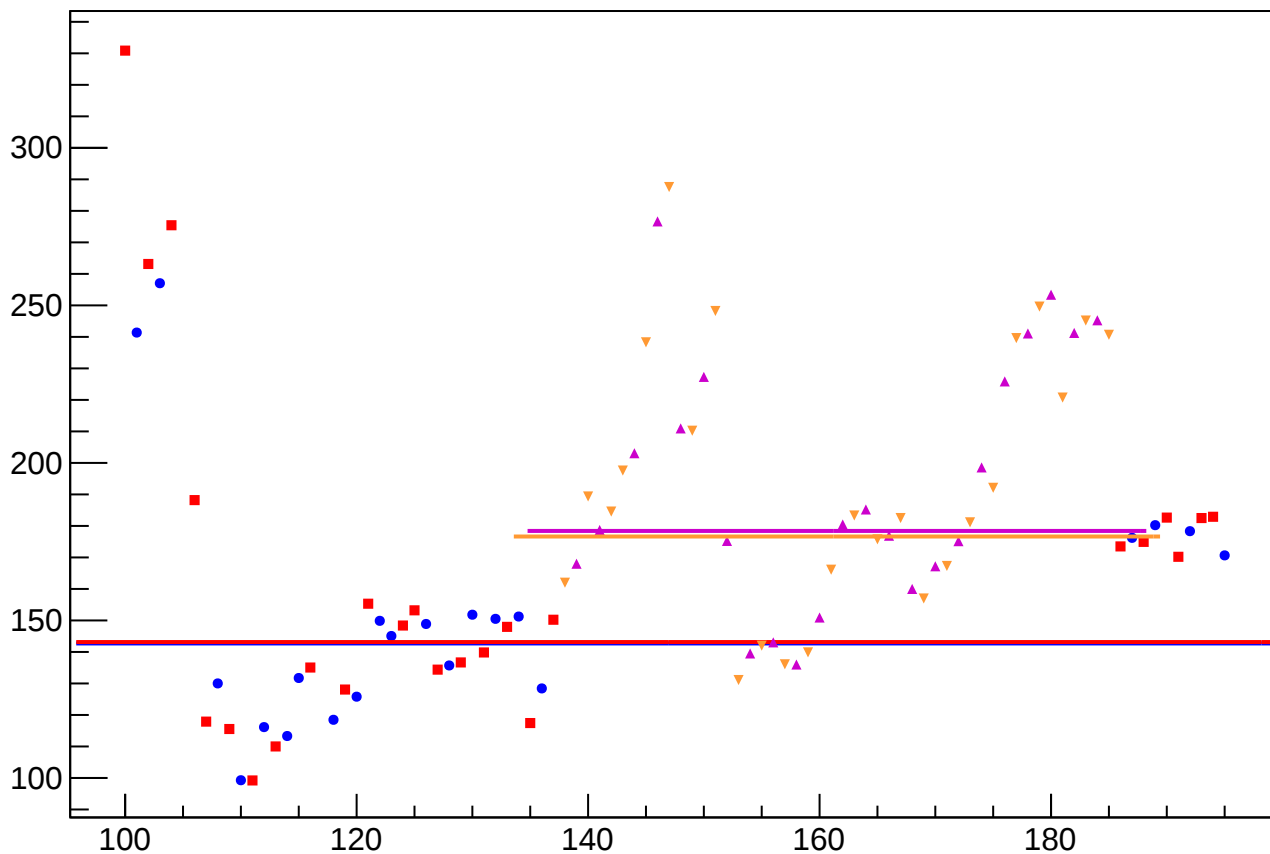
Right: 3708.831+/-33.717 χ^2/NDF : 194518.9/45

In: -2985.926+/-33.008 χ^2/NDF : 122990.8/43

Out: 663.213+/-31.206 χ^2/NDF : 198709.5/49

All: -1059.021+/-22.676 χ^2/NDF : 328154.0/9

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 142.700 $\pm$ 0.035 χ^2 /NDF: 864851.6/20

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 143.145 $\pm$ 0.033 χ^2 /NDF: 1182079.7/24

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

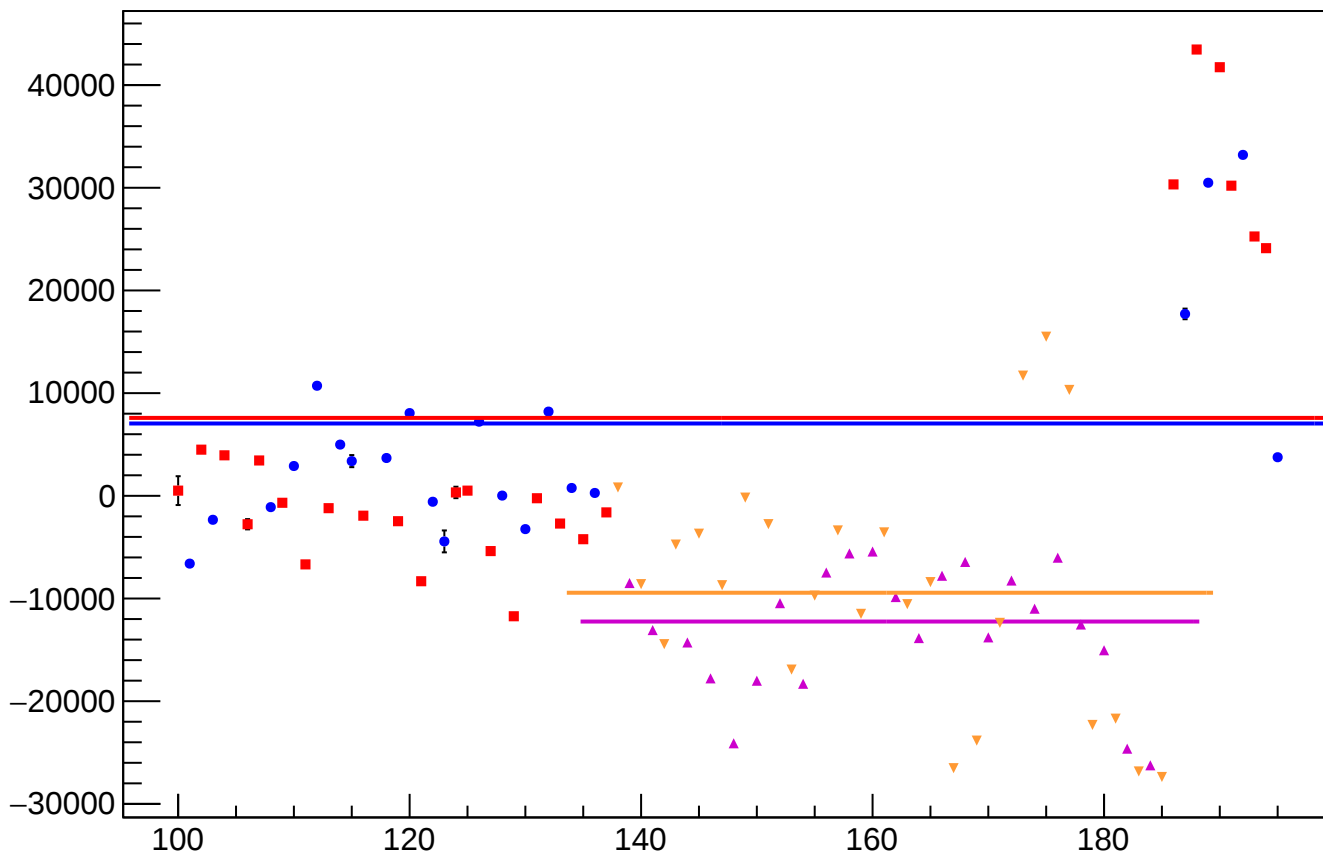
Right: 142.938 $\pm$ 0.024 χ^2 /NDF: 2047018.0/45

In: 162.526 $\pm$ 0.023 χ^2 /NDF:2736794.7/43

Out: 161.266 $\pm$ 0.022 χ^2 /NDF:3305328.3/49

All: 161.861 $\pm$ 0.016 χ^2 /NDF: 6043661.9/93

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7044.298 +/- 60.891 χ^2/NDF : 30960.6/20

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

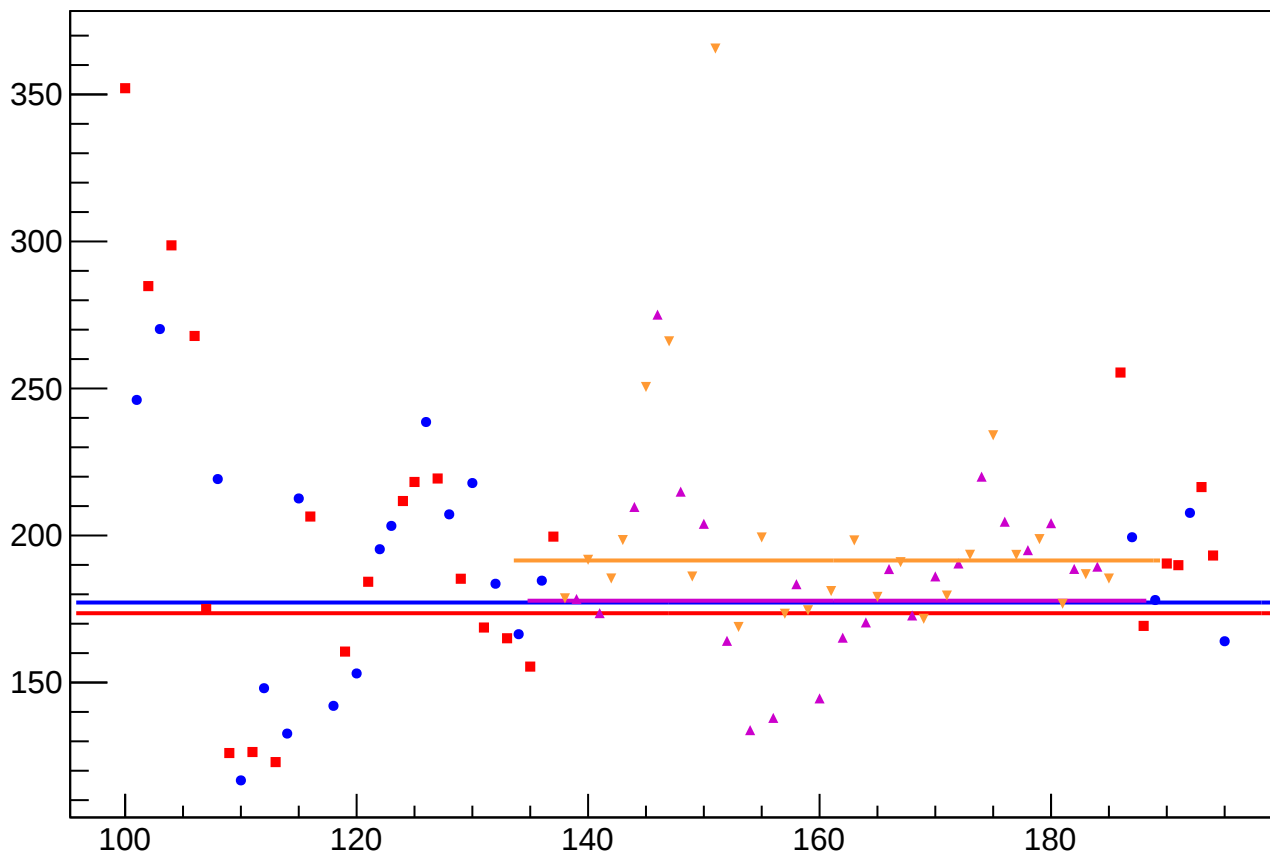
Right: 7341.008 +/- 41.087 χ^2/NDF : 126962.8/45

In: -5637.270 +/- 35.634 χ^2/NDF : 113541.8/43

Out: -2612.646 +/- 35.246 χ^2/NDF : 214223.5/49

All: -4108.416 +/- 25.059 χ^2/NDF : 331407.0/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 177.207+/-0.043 χ^2/NDF : 742291.6/20

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

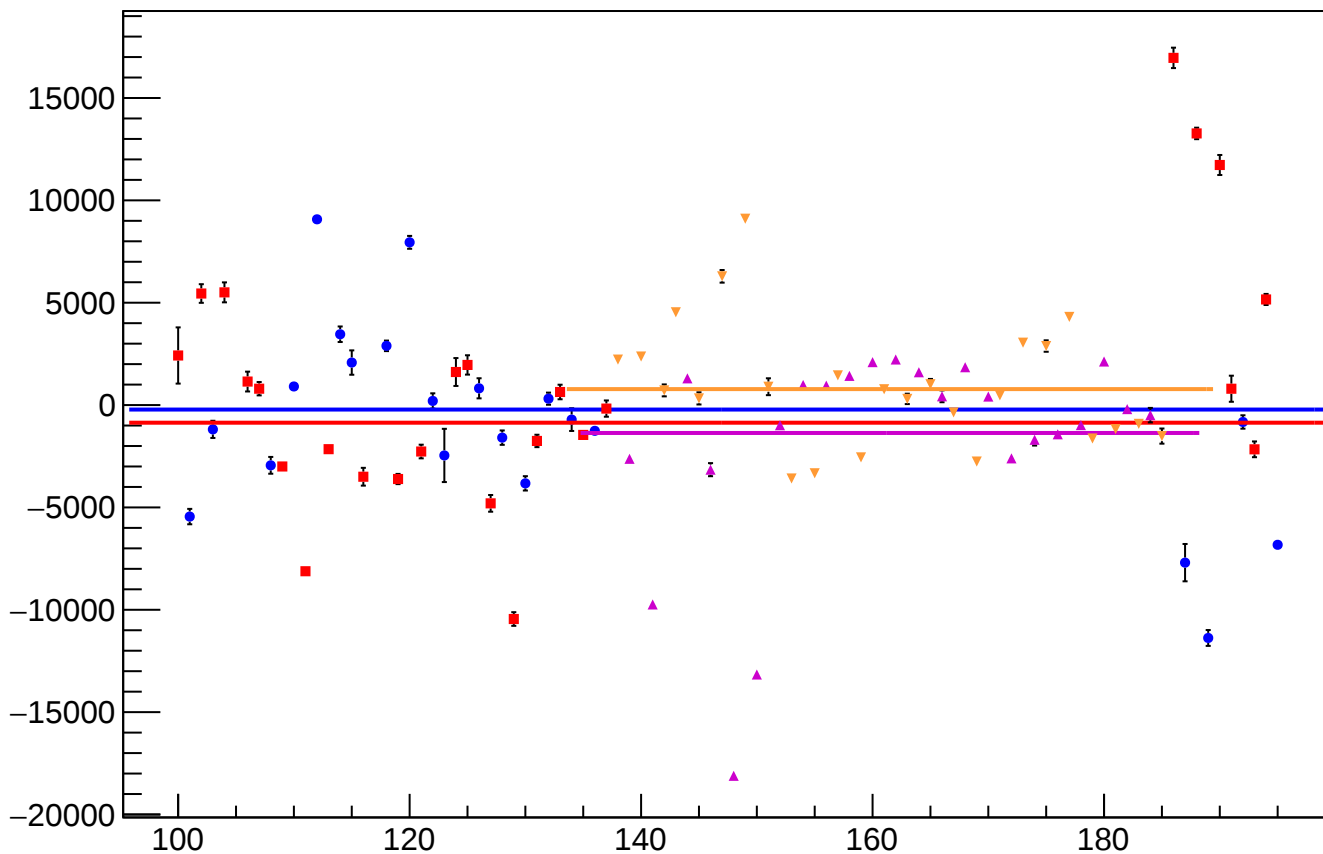
Right: 175.225+/-0.029 χ^2/NDF : 1858662.8/45

In: 177.611+/-0.025 χ^2/NDF : 1604919.8/43

Out: 184.316+/-0.025 χ^2/NDF : 1964162.3/49

All: 181.000+/-0.018 χ^2/NDF : 3604874.0/93

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -218.913 ± 69.084 $\chi^2/\text{NDF}: 5030.6/20$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -861.291 ± 63.529 $\chi^2/\text{NDF}: 8194.2/24$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

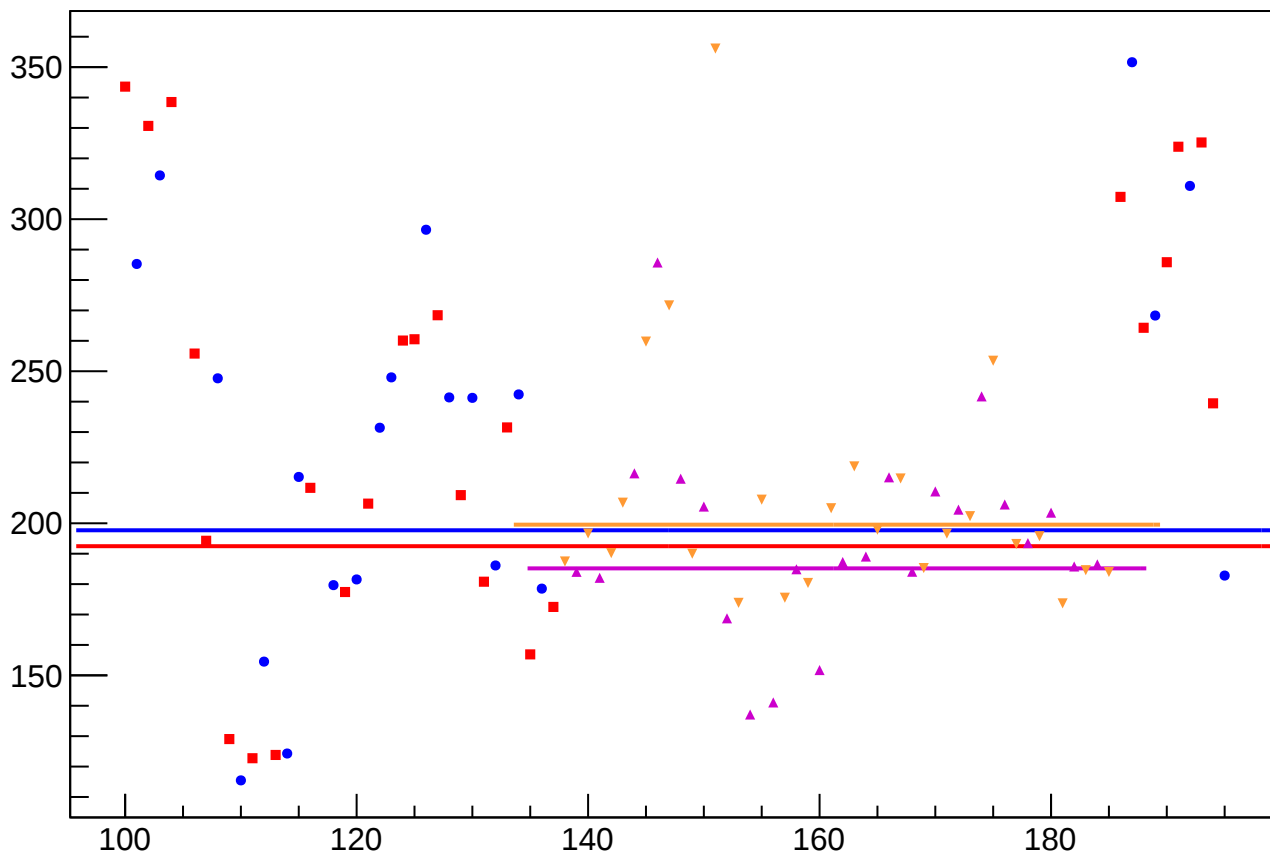
Right: -566.963 ± 46.762 $\chi^2/\text{NDF}: 13271.7/45$

In: -1013.644 ± 38.177 $\chi^2/\text{NDF}: 16854.0/43$

Out: 192.134 ± 38.020 $\chi^2/\text{NDF}: 12883.4/49$

All: -408.275 ± 26.940 $\chi^2/\text{NDF}: 30238.2/93$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 197.701 ± 0.049 χ^2/NDF : 1372905.8/20

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 192.468 ± 0.045 χ^2/NDF : 2112538.3/24

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

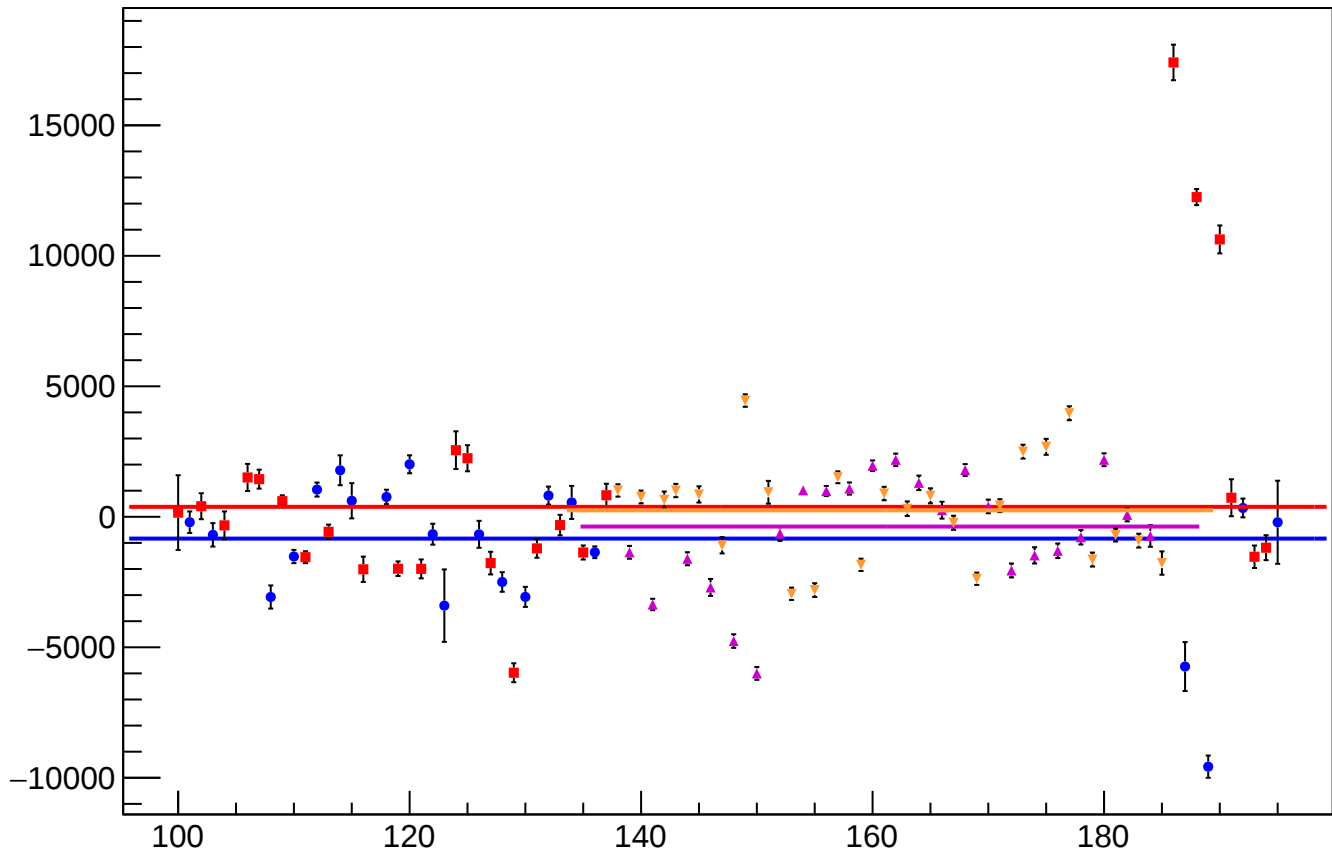
Right: 194.865 ± 0.033 χ^2/NDF : 3491661.2/45

In: 188.997 ± 0.027 χ^2/NDF : 2301359.6/43

Out: 197.011 ± 0.027 χ^2/NDF : 2857832.6/49

All: 193.021 ± 0.019 χ^2/NDF : 5203442.1/93

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.188 ± 84.038 $\chi^2/\text{NDF}: 759.6/20$

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 $\chi^2/\text{NDF}: 3225.5/47$

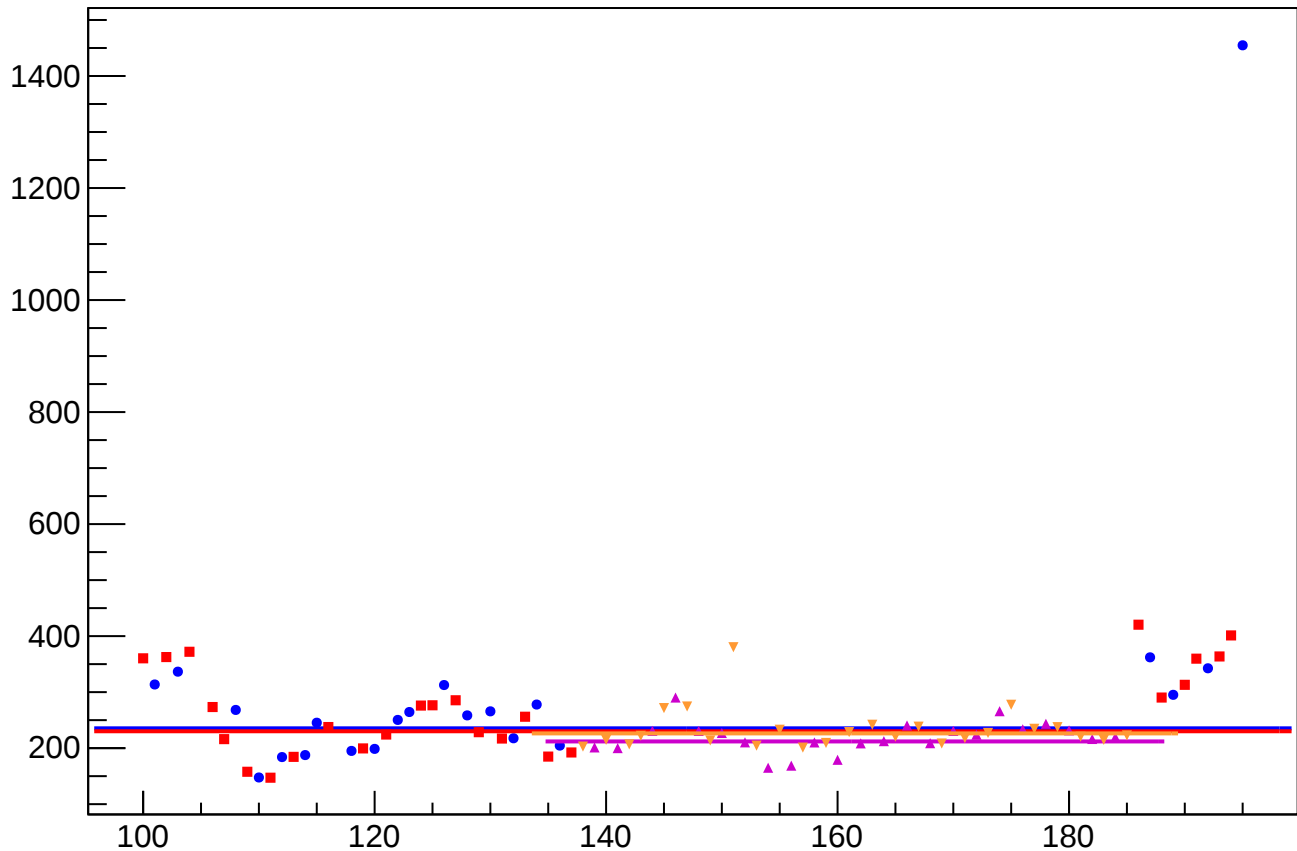
Right: -161.218 ± 56.129 $\chi^2/\text{NDF}: 4037.5/45$

In: -501.949 ± 44.250 $\chi^2/\text{NDF}: 2582.4/43$

Out: 292.669 ± 43.665 $\chi^2/\text{NDF}: 4519.0/49$

All: -99.360 ± 31.081 $\chi^2/\text{NDF}: 7264.7/93$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 235.377+/-0.059 χ^2/NDF : 2122064.6/20

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

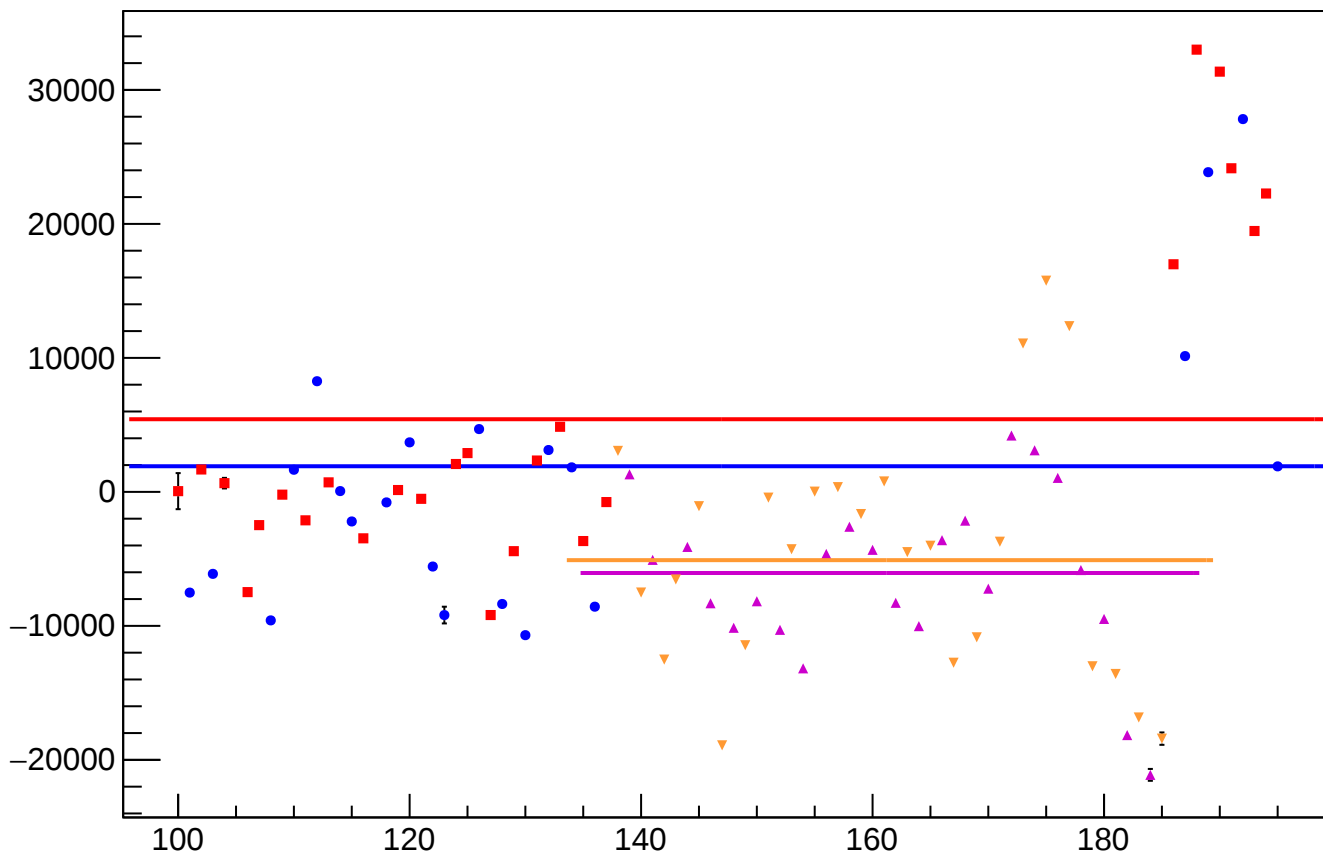
Right: 232.472+/-0.040 χ^2/NDF : 3928960.3/45

In: 218.460+/-0.031 χ^2/NDF : 2818547.9/43

Out: 227.599+/-0.031 χ^2/NDF : 2327019.7/49

All: 223.090+/-0.022 χ^2/NDF : 5188798.5/93

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1913.449+/-42.157 χ^2/NDF : 66286.8/20

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

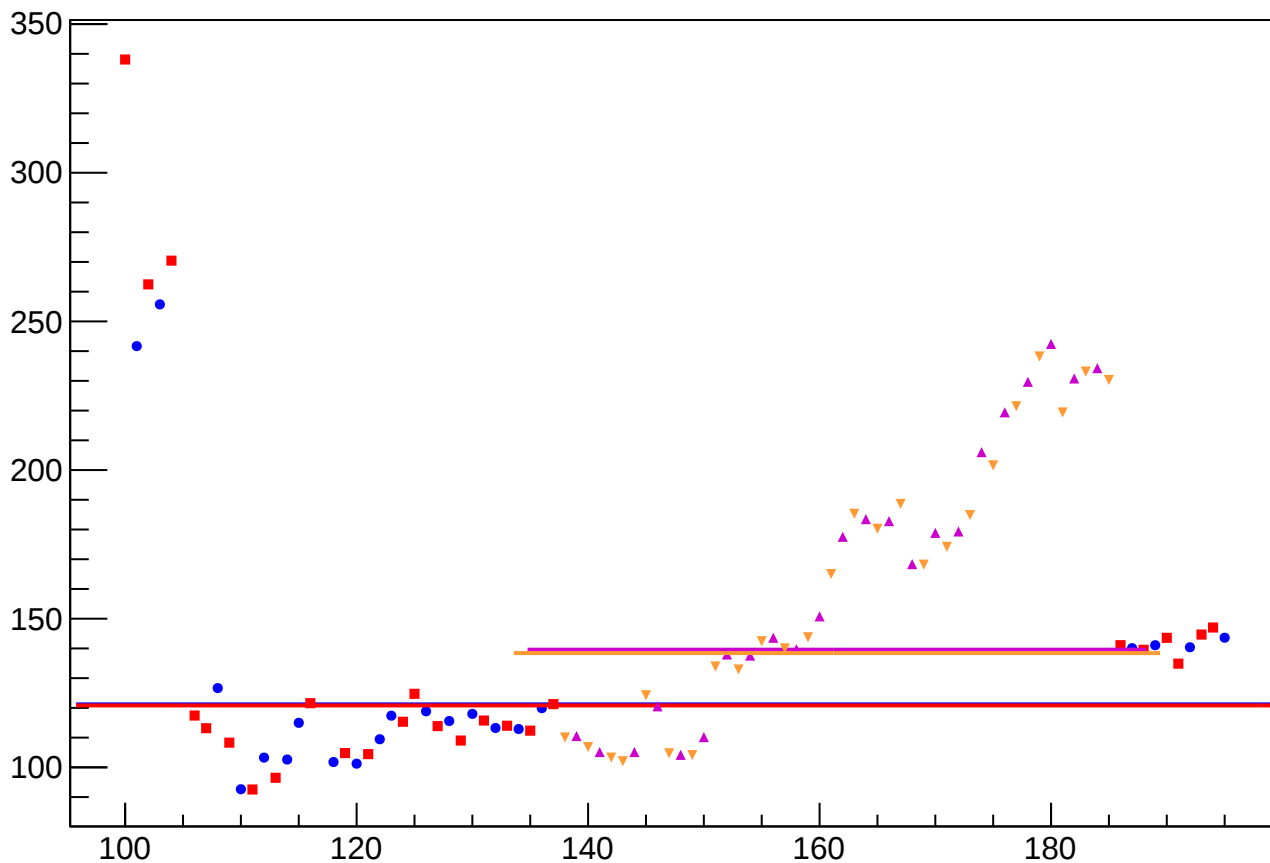
Right: 3811.964+/-28.559 χ^2/NDF : 169687.6/45

In: -2802.988+/-26.928 χ^2/NDF : 105020.2/43

Out: -575.620+/-25.452 χ^2/NDF : 195896.0/49

All: -1626.578+/-18.497 χ^2/NDF : 304529.8/9

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 121.176+/-0.030 χ^2/NDF : 868597.8/20

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

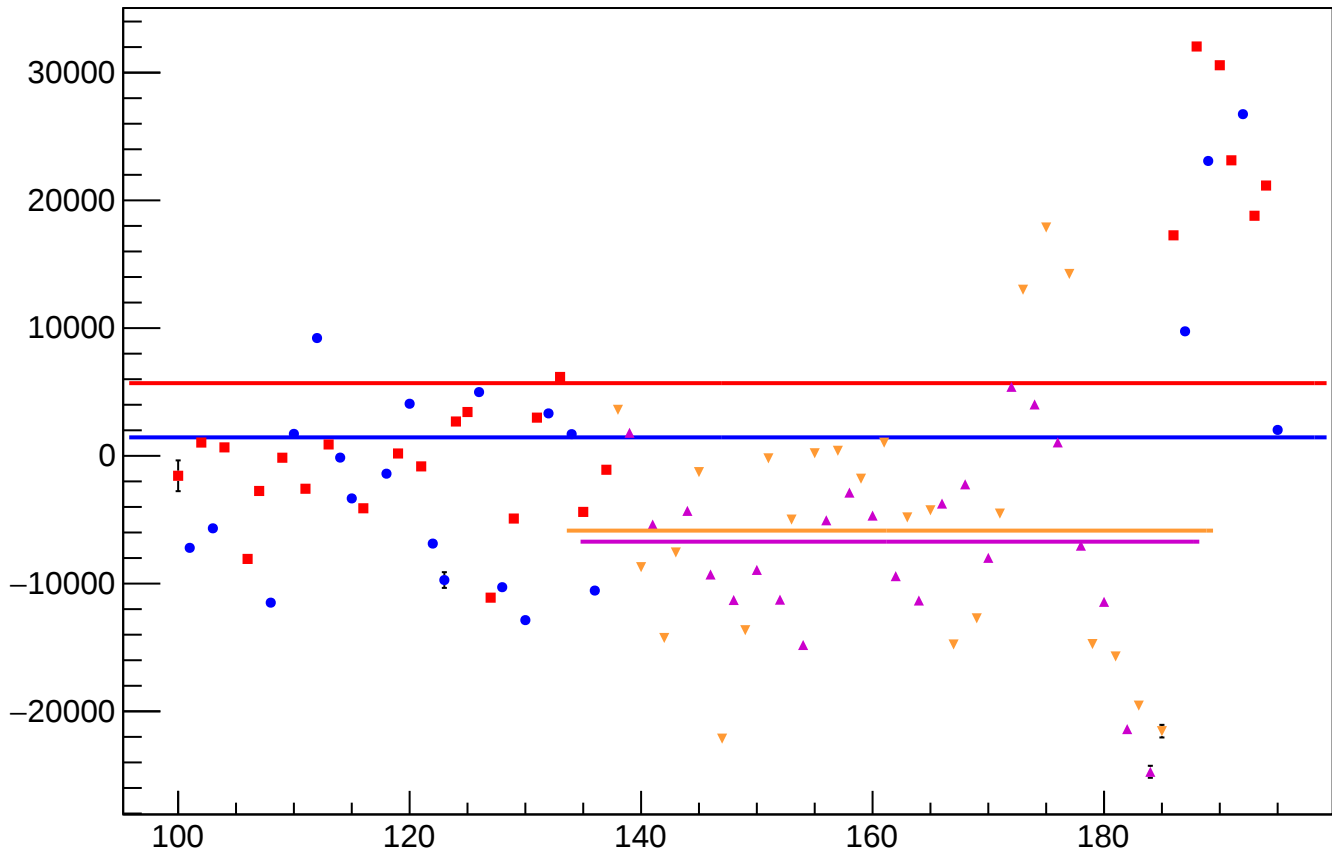
Right: 120.987+/-0.020 χ^2/NDF : 1881801.4/45

In: 132.070+/-0.019 χ^2/NDF :3507838.4/43

Out: 130.869+/-0.018 χ^2/NDF :3797158.2/49

All: 131.436+/-0.013 χ^2/NDF : 7307098.1/93

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1447.261+/-42.651 χ^2/NDF : 71294.1/20

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

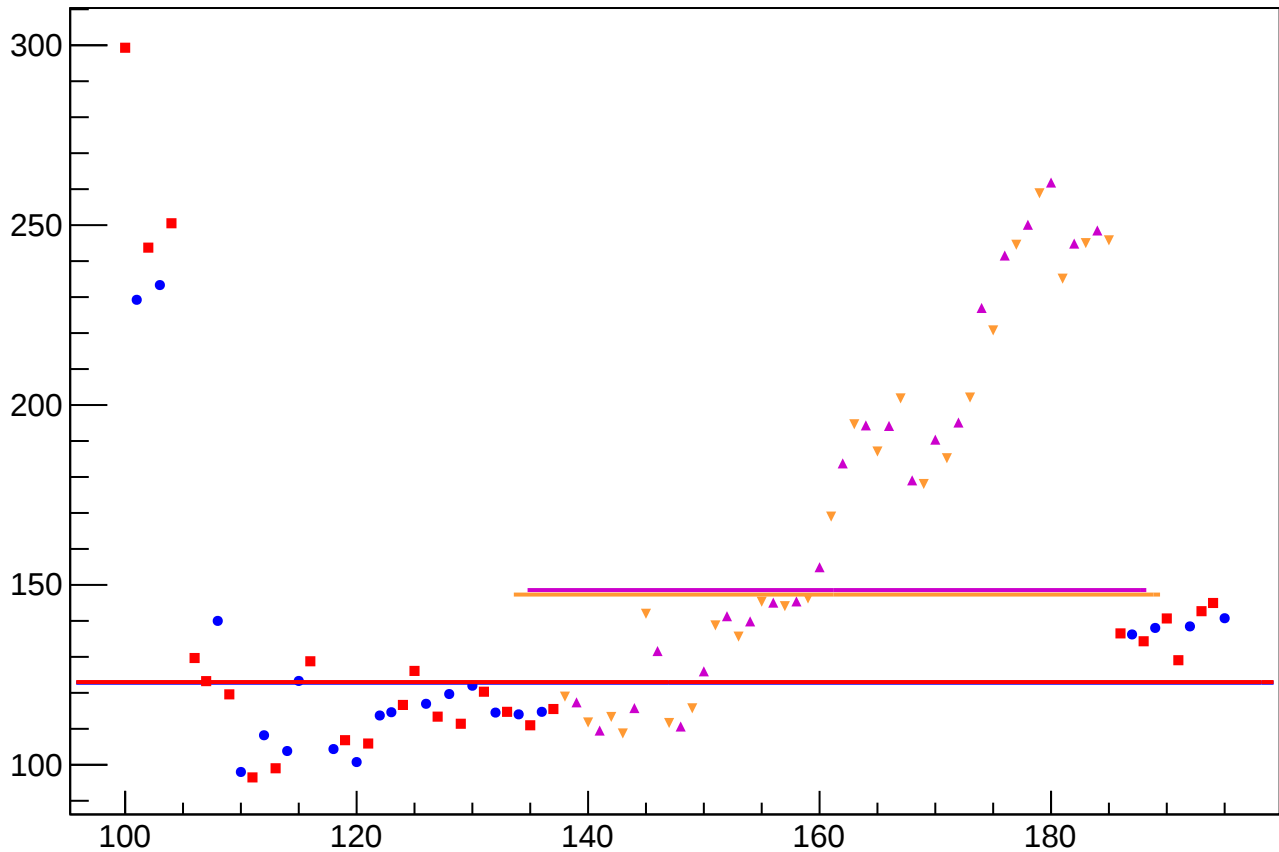
Right: 3735.325+/-28.954 χ^2/NDF : 176519.4/45

In: -3182.308+/-28.067 χ^2/NDF : 113010.0/43

Out: -624.010+/-26.538 χ^2/NDF : 210182.6/49

All: -1831.576+/-19.283 χ^2/NDF : 327579.2/9

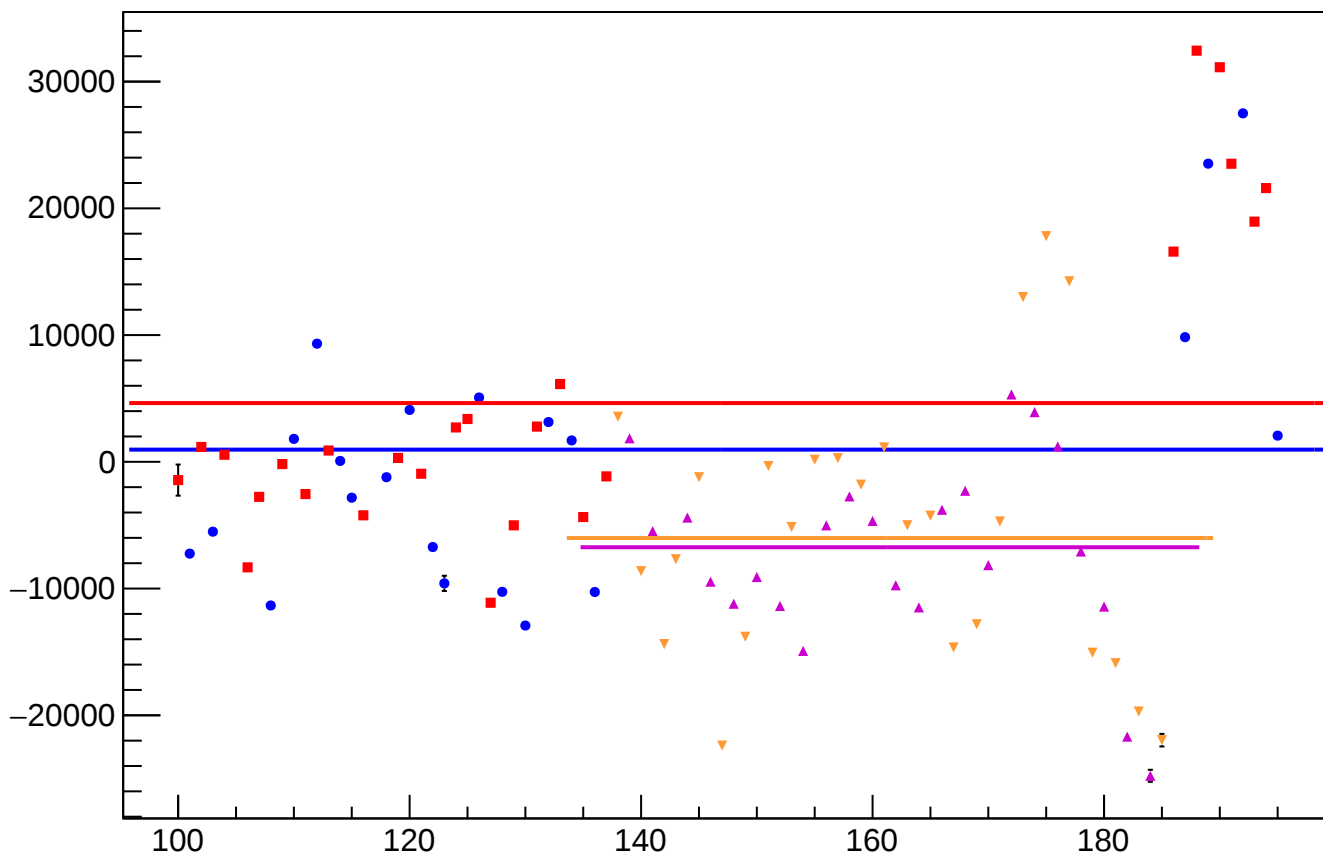
asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 122.815+/-0.030 χ^2/NDF : 719278.9/20
 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: 122.916+/-0.020 χ^2/NDF : 1541317.3/45
 In: 137.416+/-0.020 χ^2/NDF : 3525870.3/43
 Out: 136.304+/-0.019 χ^2/NDF : 3749745.5/49
 All: 136.829+/-0.014 χ^2/NDF : 7277274.8/93

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 963.436+/-41.703 χ^2/NDF : 69887.0/20

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

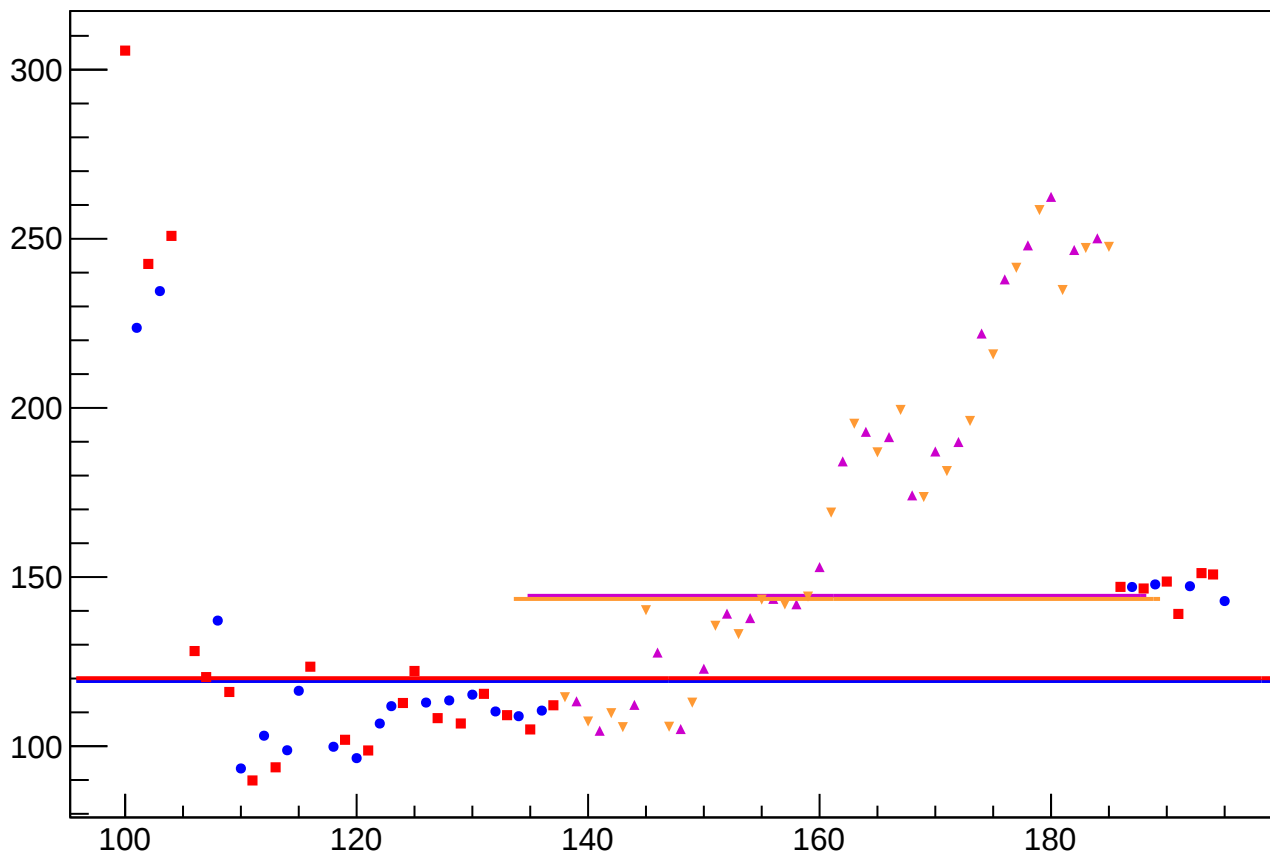
Right: 2930.568+/-28.420 χ^2/NDF : 168991.3/45

In: -3411.460+/-27.414 χ^2/NDF : 111338.7/43

Out: -1225.739+/-26.032 χ^2/NDF : 204185.6/49

All: -2262.125+/-18.877 χ^2/NDF : 318866.9/99

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 119.275+/-0.029 χ^2/NDF : 874389.2/20

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 120.093+/-0.027 χ^2/NDF : 1089299.8/24

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

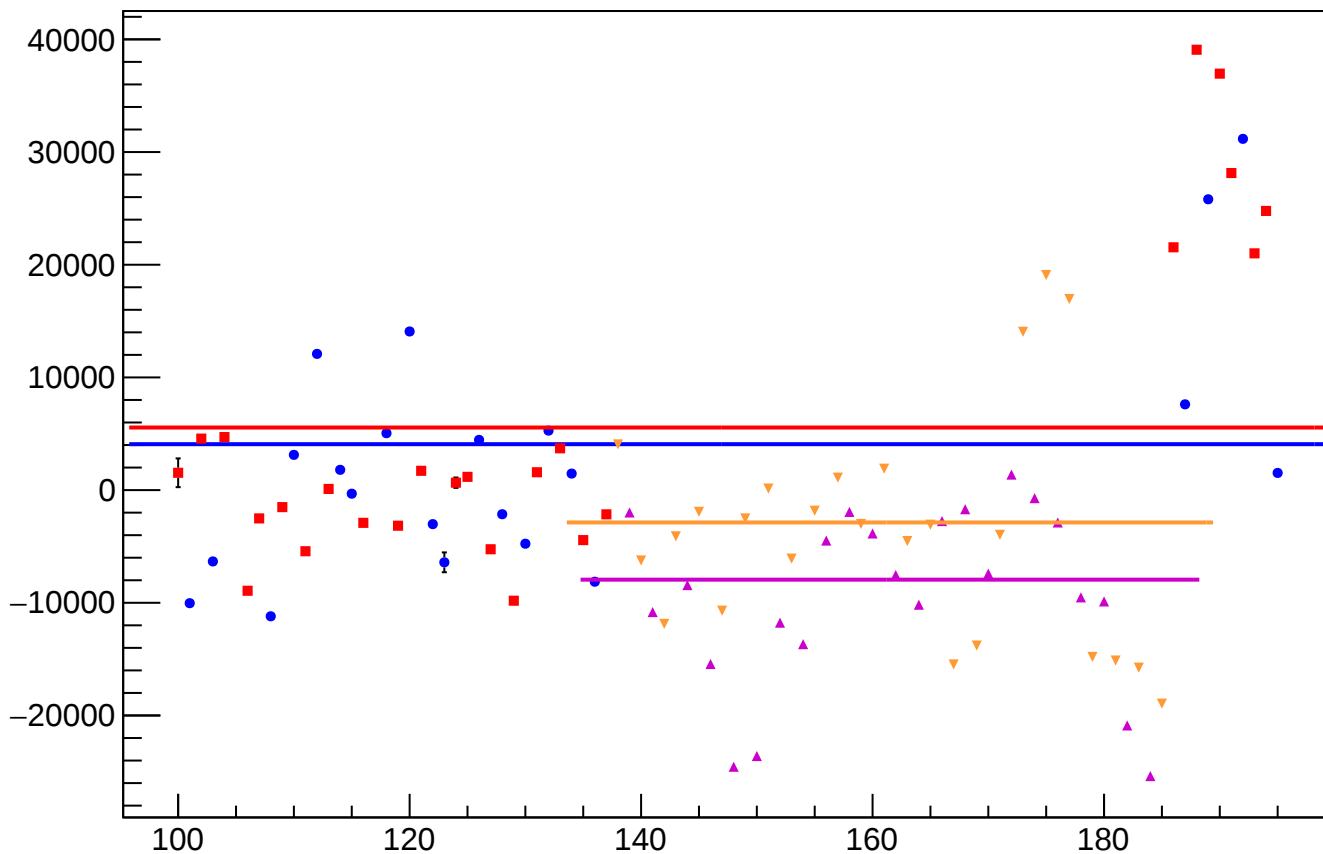
Right: 119.713+/-0.020 χ^2/NDF : 1964101.4/45

In: 133.565+/-0.019 χ^2/NDF : 3874860.1/43

Out: 132.998+/-0.018 χ^2/NDF : 4195221.6/49

All: 133.267+/-0.013 χ^2/NDF : 8070531.1/93

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 4075.486 $\pm$ 50.359 χ^2/NDF : 51611.8/20

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

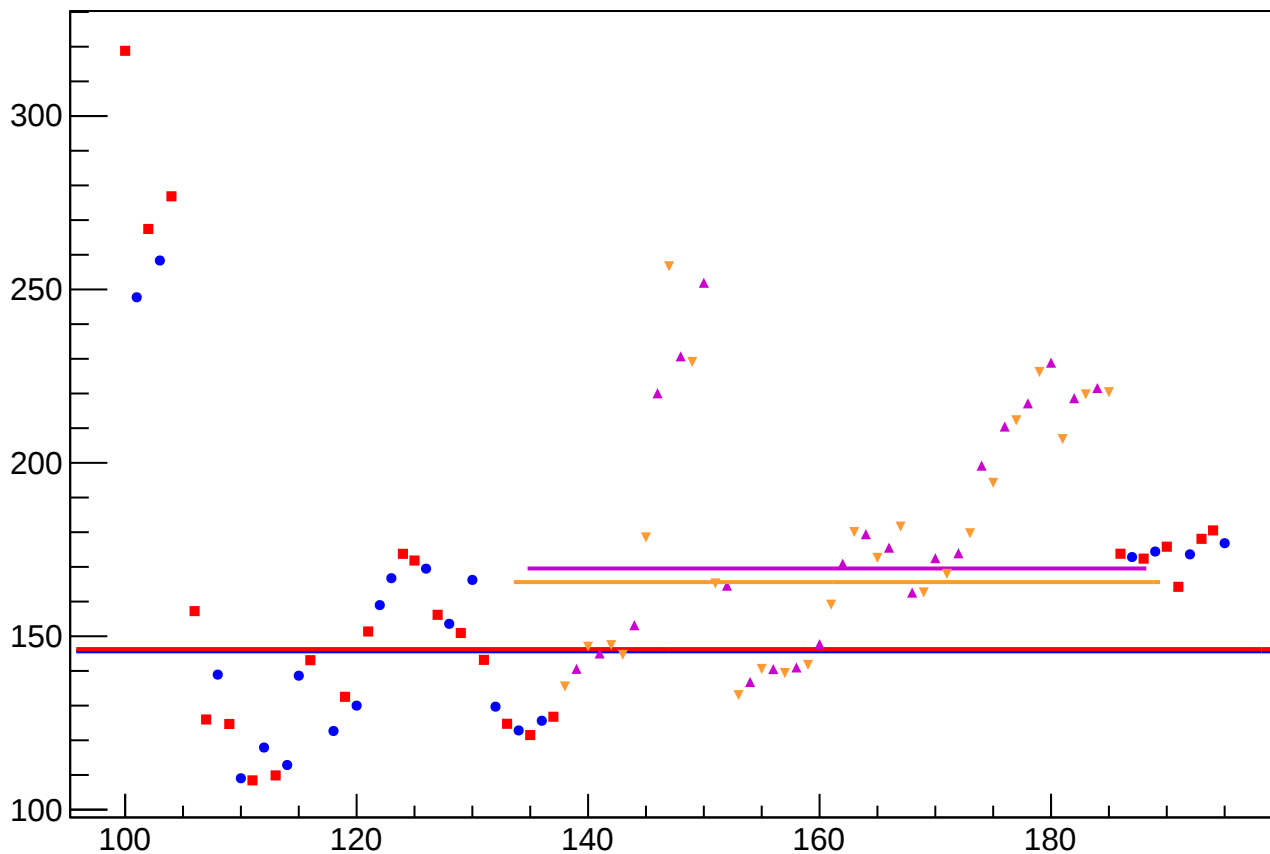
Right: 4868.187 $\pm$ 34.293 χ^2/NDF : 144366.4/45

In: -3053.148 $\pm$ 32.130 χ^2/NDF : 109281.7/43

Out: 629.623 $\pm$ 30.186 χ^2/NDF : 157627.8/49

All: -1096.978 $\pm$ 22.000 χ^2/NDF : 273888.0/9

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 145.654 ± 0.036 χ^2/NDF : 831568.1/20

Left Out: 165.616 ± 0.028 χ^2/NDF : 1144779.3/24

Right Out: 146.300 ± 0.033 χ^2/NDF : 1004390.2/24

Left In: 169.542 ± 0.030 χ^2/NDF : 1159241.9/22

Left: 167.471 ± 0.020 χ^2/NDF : 2313359.6/47

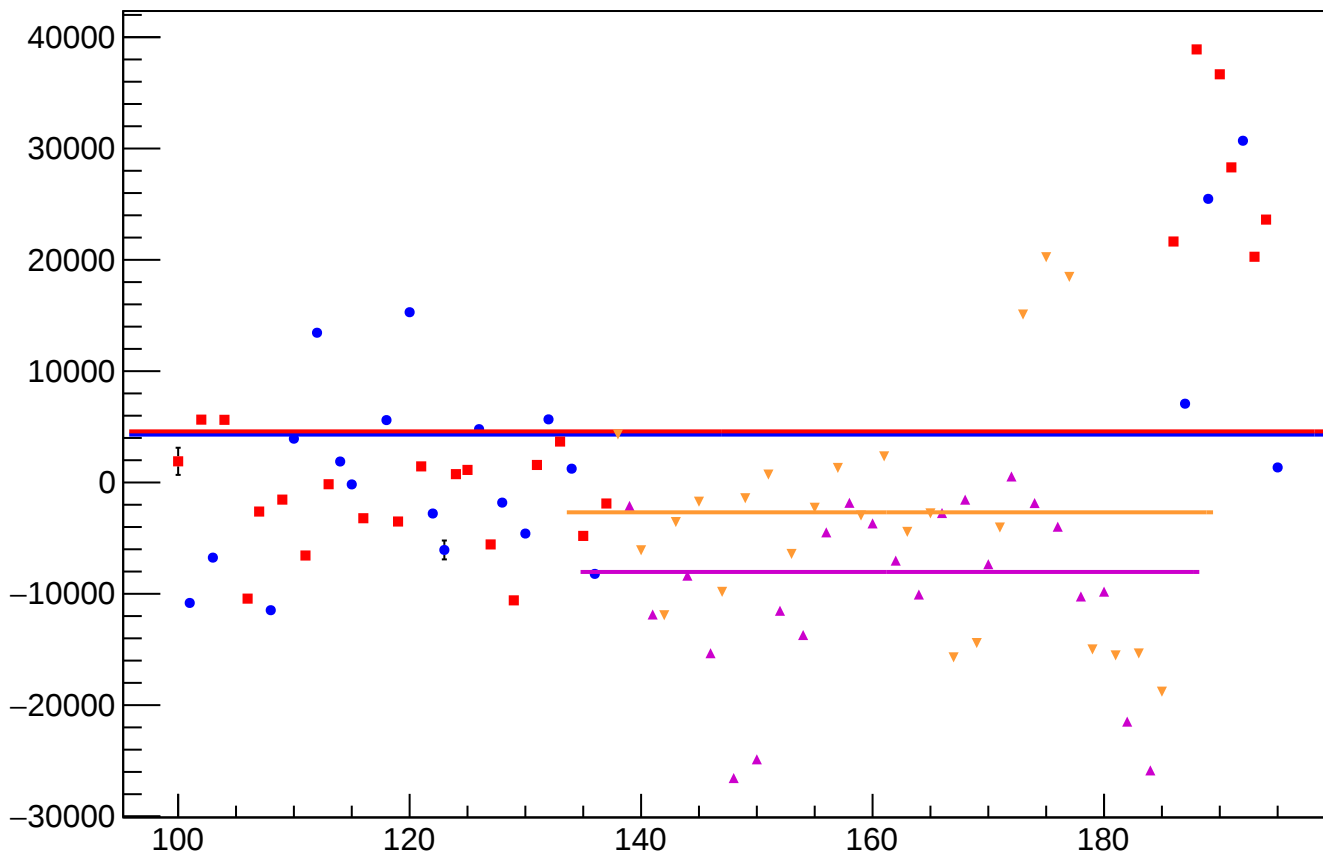
Right: 146.001 ± 0.024 χ^2/NDF : 1836134.8/45

In: 159.818 ± 0.023 χ^2/NDF : 2257637.5/43

Out: 157.591 ± 0.021 χ^2/NDF : 2348065.5/49

All: 158.635 ± 0.016 χ^2/NDF : 4610806.9/93

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 4301.056+/-42.167 χ^2/NDF : 71814.3/20

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

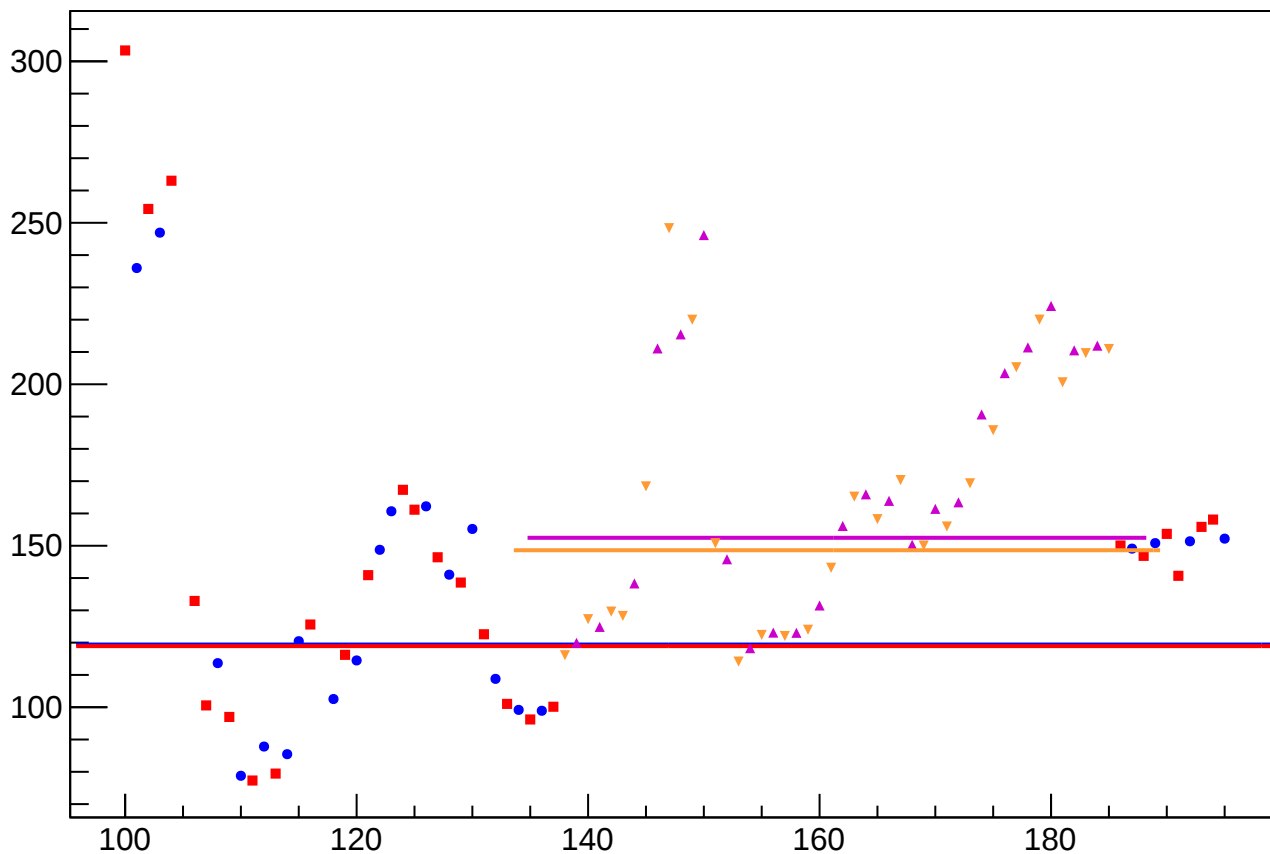
Right: 4457.390+/-28.609 χ^2/NDF : 199883.0/45

In: -2519.604+/-28.198 χ^2/NDF :148404.5/43

Out: 646.435+/-26.341 χ^2/NDF :203772.9/49

All: -828.950+/-19.249 χ^2/NDF : 358909.6/93

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 119.407 ± 0.030 χ^2/NDF : 1381448.5/20

Left Out: 148.611 ± 0.025 χ^2/NDF : 1685424.1/24

Right Out: 118.919 ± 0.028 χ^2/NDF : 1685686.1/24

Left In: 152.463 ± 0.027 χ^2/NDF : 1691517.7/22

Left: 150.424 ± 0.018 χ^2/NDF : 3387867.0/47

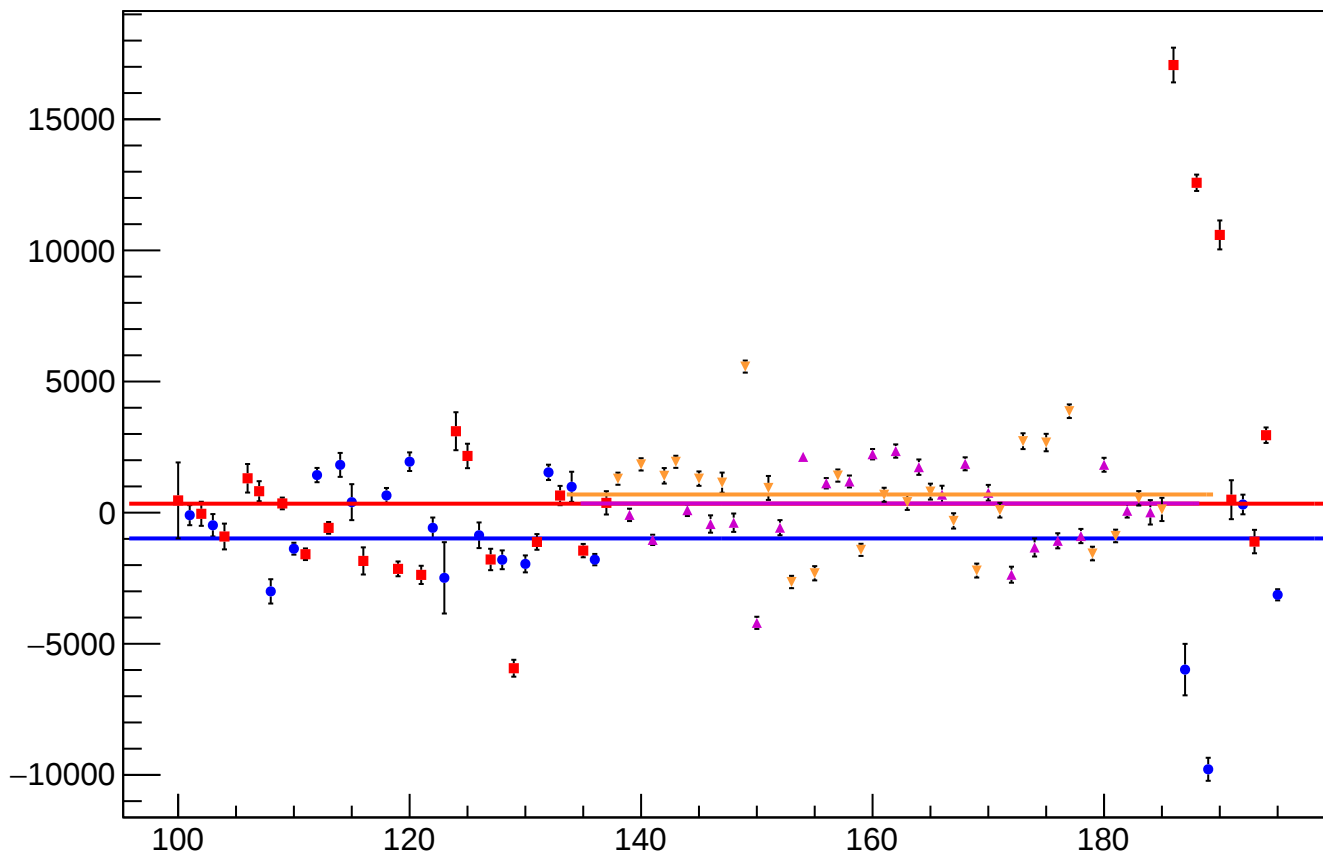
Right: 119.144 ± 0.020 χ^2/NDF : 3067279.0/45

In: 137.681 ± 0.020 χ^2/NDF : 3752464.6/43

Out: 135.026 ± 0.019 χ^2/NDF : 4001803.4/49

All: 136.264 ± 0.014 χ^2/NDF : 7763735.1/93

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -983.037 ± 75.155 $\chi^2/\text{NDF}: 908.1/20$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 341.970 ± 70.713 $\chi^2/\text{NDF}: 3384.0/24$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

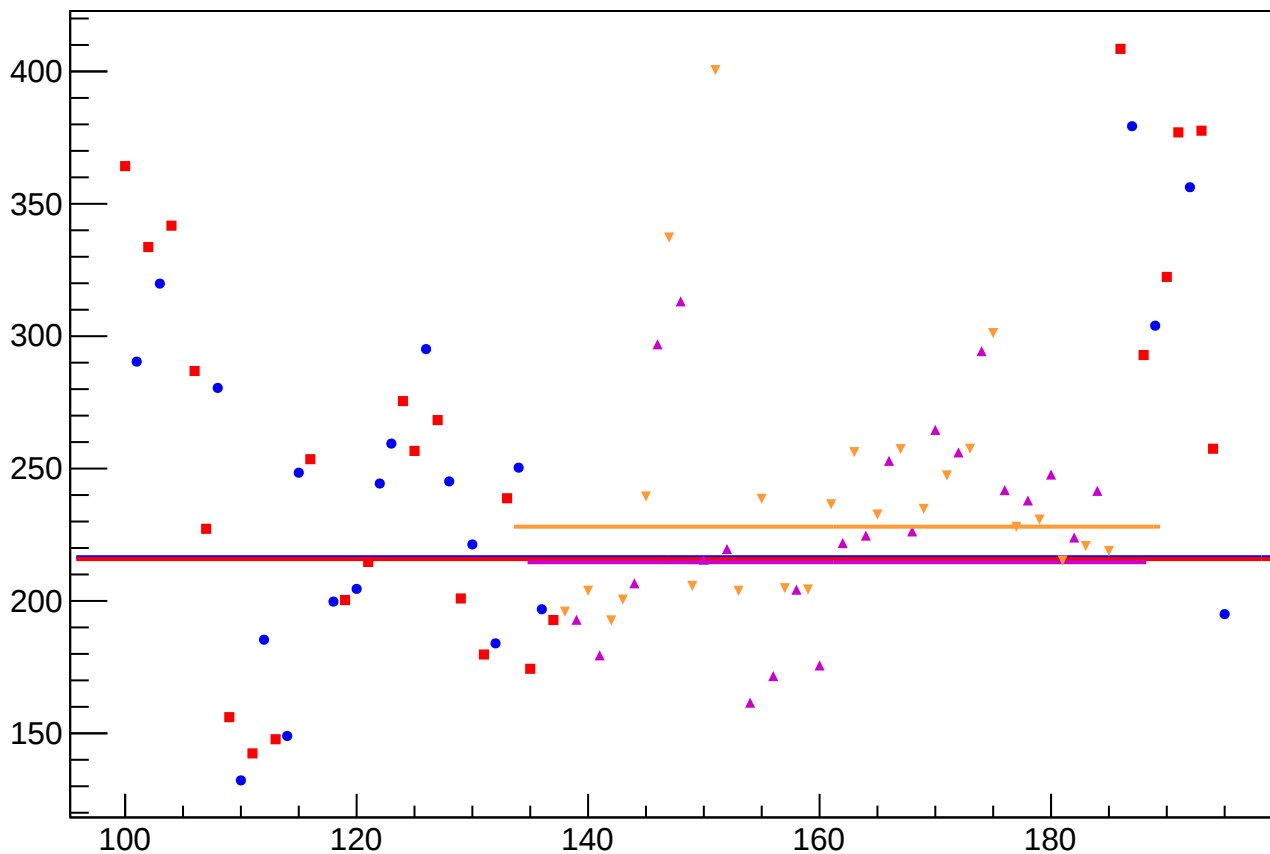
Right: -280.217 ± 51.500 $\chi^2/\text{NDF}: 4457.0/45$

In: -94.055 ± 43.364 $\chi^2/\text{NDF}: 2098.8/43$

Out: 562.779 ± 43.069 $\chi^2/\text{NDF}: 4821.5/49$

All: 236.606 ± 30.558 $\chi^2/\text{NDF}: 7035.8/93$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.512 ± 0.053 $\chi^2/\text{NDF}: 1148416.3/20$

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 $\chi^2/\text{NDF}: 1914604.4/47$

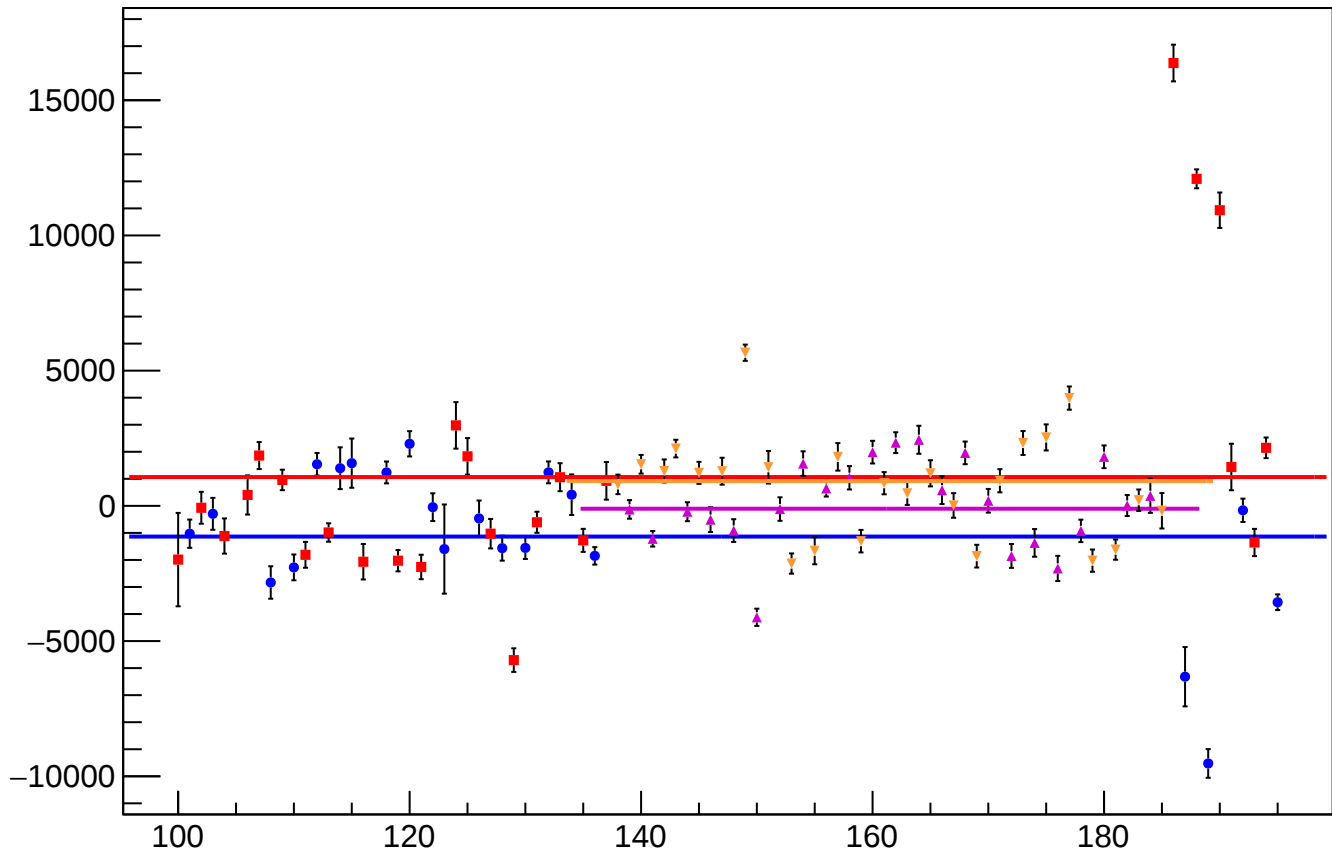
Right: 216.139 ± 0.036 $\chi^2/\text{NDF}: 2957343.0/45$

In: 215.255 ± 0.031 $\chi^2/\text{NDF}: 2174938.9/43$

Out: 223.515 ± 0.030 $\chi^2/\text{NDF}: 2672949.7/49$

All: 219.413 ± 0.022 $\chi^2/\text{NDF}: 4884427.0/93$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -1135.417 ± 105.823 χ^2/NDF : 563.5/20

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

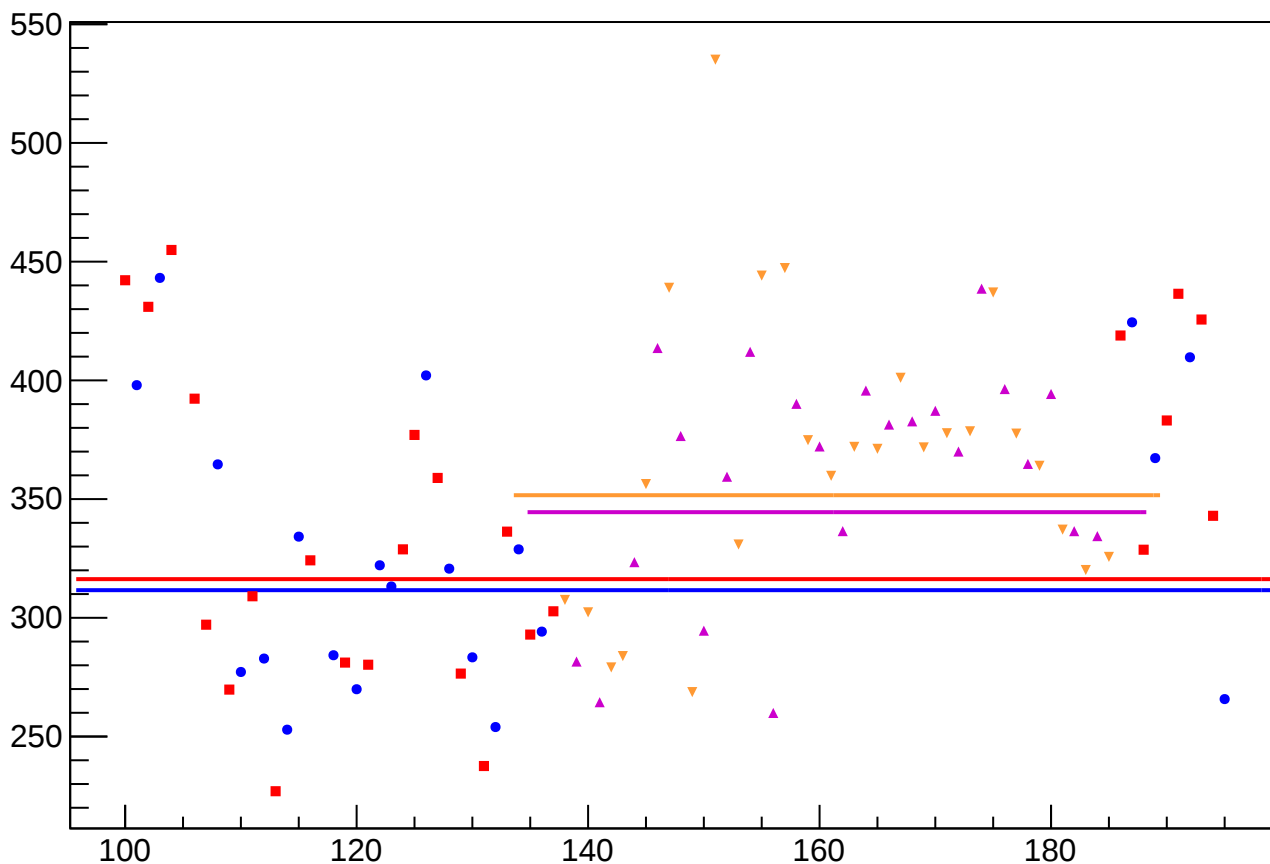
Right: 26.867 ± 72.687 χ^2/NDF : 3092.7/45

In: -506.258 ± 65.980 χ^2/NDF : 1011.6/43

Out: 977.103 ± 64.051 χ^2/NDF : 2920.5/49

All: 257.427 ± 45.958 χ^2/NDF : 4192.3/93

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 311.641+/-0.075 χ^2/NDF : 520443.7/20

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

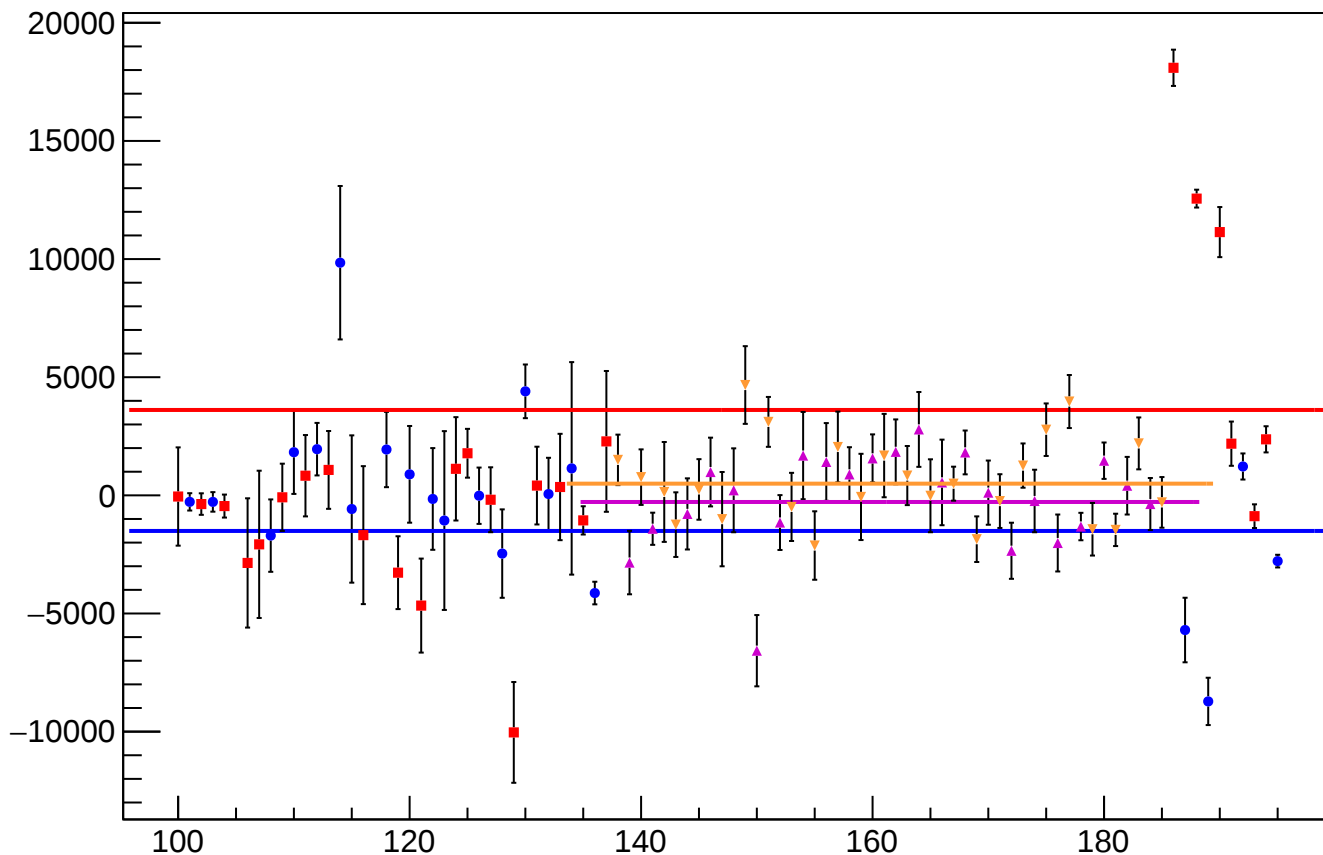
Right: 314.095+/-0.051 χ^2/NDF : 1270126.1/45

In: 331.720+/-0.047 χ^2/NDF : 1407131.3/43

Out: 337.136+/-0.045 χ^2/NDF : 1802837.1/49

All: 334.509+/-0.032 χ^2/NDF : 3216905.0/93

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -1506.690 ± 155.668 $\chi^2/\text{NDF}: 221.0/20$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 3613.665 ± 169.421 $\chi^2/\text{NDF}: 1384.8/24$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

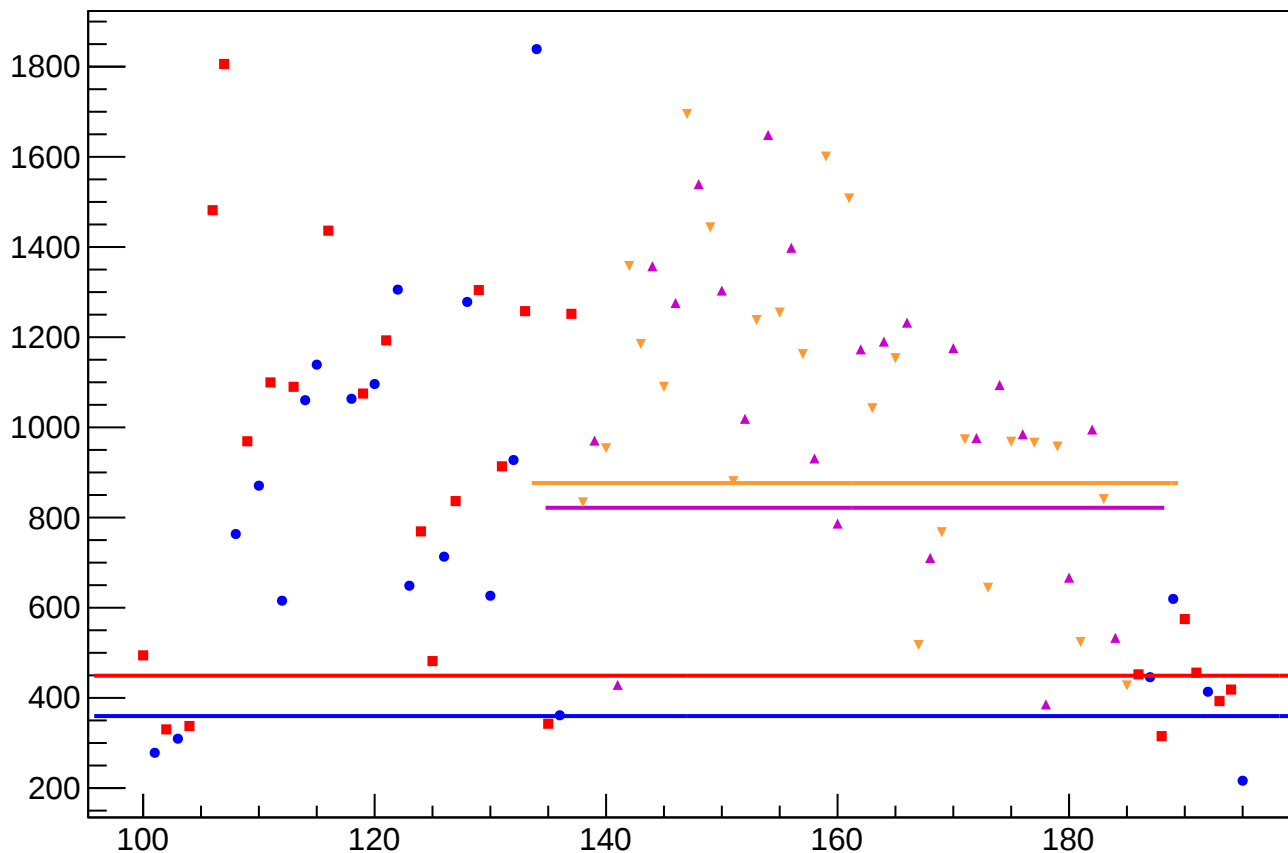
Right: 837.255 ± 114.628 $\chi^2/\text{NDF}: 2101.0/45$

In: -1126.188 ± 129.274 $\chi^2/\text{NDF}: 297.4/43$

Out: 2523.217 ± 136.628 $\chi^2/\text{NDF}: 1559.5/49$

All: 597.657 ± 93.903 $\chi^2/\text{NDF}: 2233.3/93$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 359.686+/-0.110 χ^2/NDF : 3797172.8/20

Left Out: 876.560+/-0.163 χ^2/NDF :3434698.7/24

Right Out: 449.229+/-0.120 χ^2/NDF : 4061971.4/24

Left In: 821.657+/-0.164 χ^2/NDF :4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

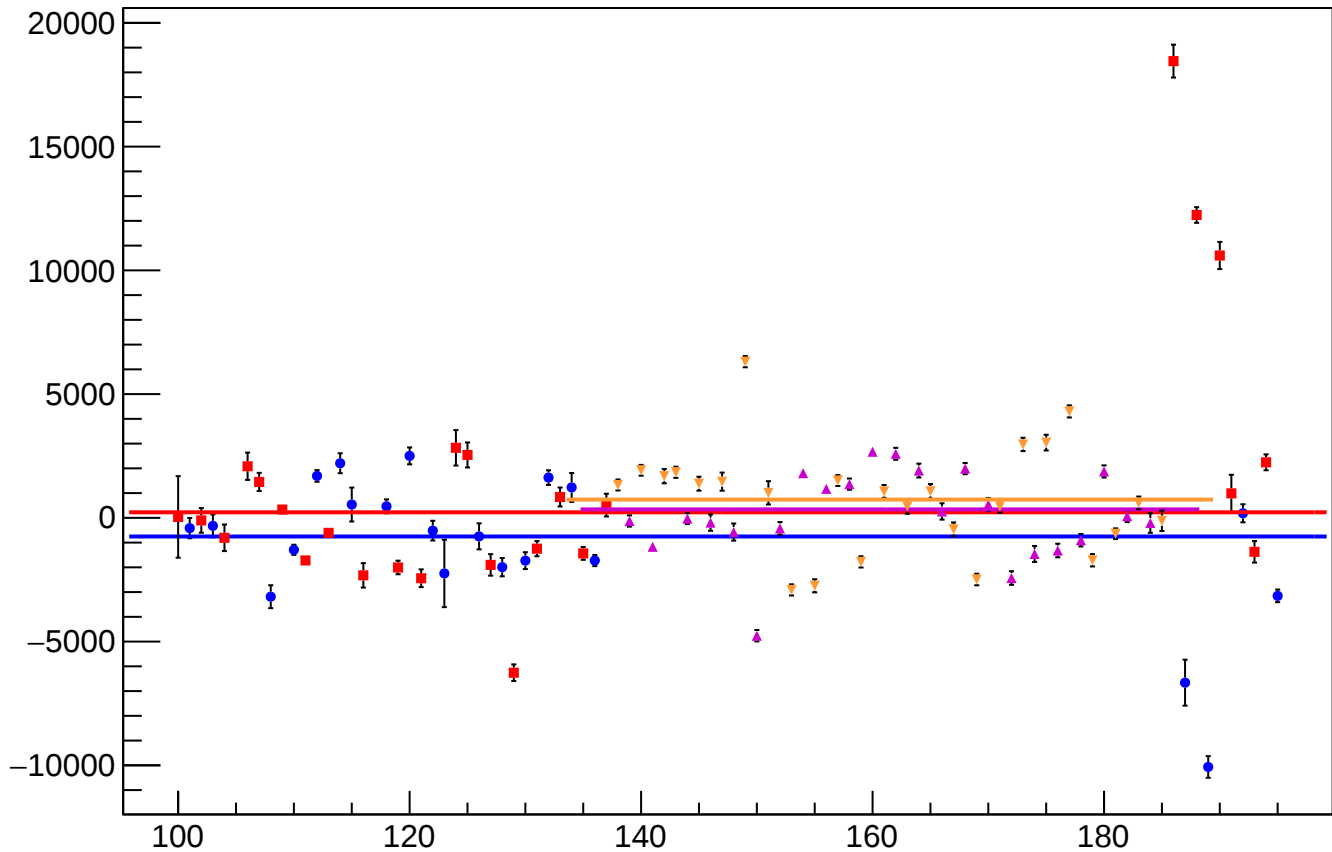
Right: 400.676+/-0.081 χ^2/NDF : 8162078.2/45

In: 503.064+/-0.091 χ^2/NDF :13707006.6/43

Out: 598.647+/-0.097 χ^2/NDF :11945649.3/49

All: 548.214+/-0.066 χ^2/NDF : 26169130.9/93

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -753.315 $\pm$ 75.378 χ^2/NDF : 1014.2/20

Left Out: 738.847 $\pm$ 51.649 χ^2/NDF :1935.2/24

Right Out: 224.264 $\pm$ 69.057 χ^2/NDF : 3399.5/24

Left In: 342.465 $\pm$ 50.044 χ^2/NDF :1254.9/22

Left: 534.403 $\pm$ 35.941 χ^2/NDF : 3220.5/47

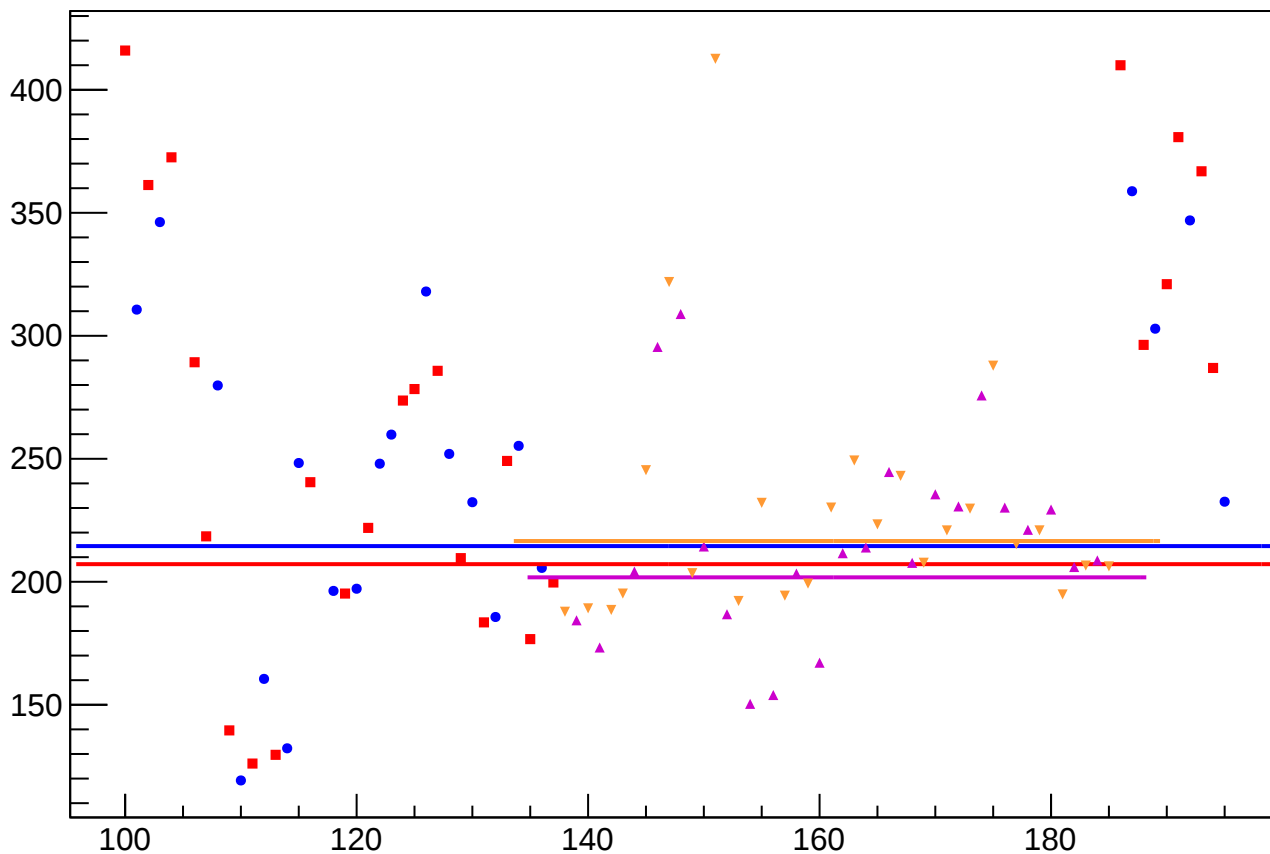
Right: -221.824 $\pm$ 50.919 χ^2/NDF : 4505.2/45

In: 7.234 $\pm$ 41.692 χ^2/NDF :2415.8/43

Out: 554.256 $\pm$ 41.361 χ^2/NDF :5370.3/49

All: 282.931 $\pm$ 29.363 χ^2/NDF : 7872.9/93

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 214.513 $\pm$ 0.053 χ^2 /NDF: 1504426.4/20

Left Out: 216.574 $\pm$ 0.037 χ^2 /NDF: 886214.1/24

Right Out: 207.167 $\pm$ 0.049 χ^2 /NDF: 2472087.4/24

Left In: 201.805 $\pm$ 0.035 χ^2 /NDF: 1087243.4/22

Left: 208.957 $\pm$ 0.025 χ^2 /NDF: 2057801.5/47

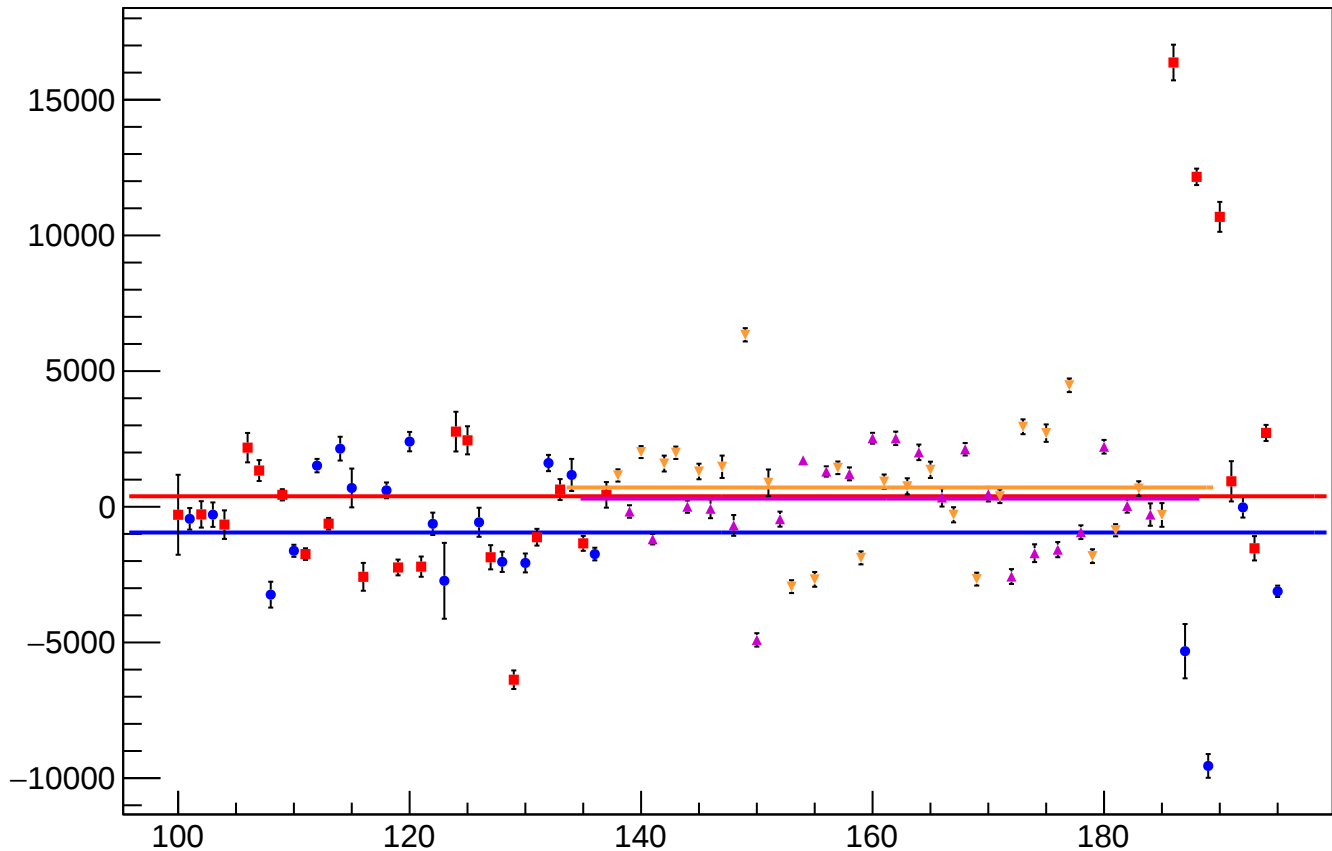
Right: 210.519 $\pm$ 0.036 χ^2 /NDF: 3986840.9/45

In: 205.693 $\pm$ 0.029 χ^2 /NDF: 2631121.5/43

Out: 213.200 $\pm$ 0.029 χ^2 /NDF: 3382101.4/49

All: 209.476 $\pm$ 0.021 χ^2 /NDF: 6045899.2/93

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -948.013+/-76.171 χ^2/NDF : 943.5/20

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: 387.426+/-71.182 χ^2/NDF : 3337.6/24

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

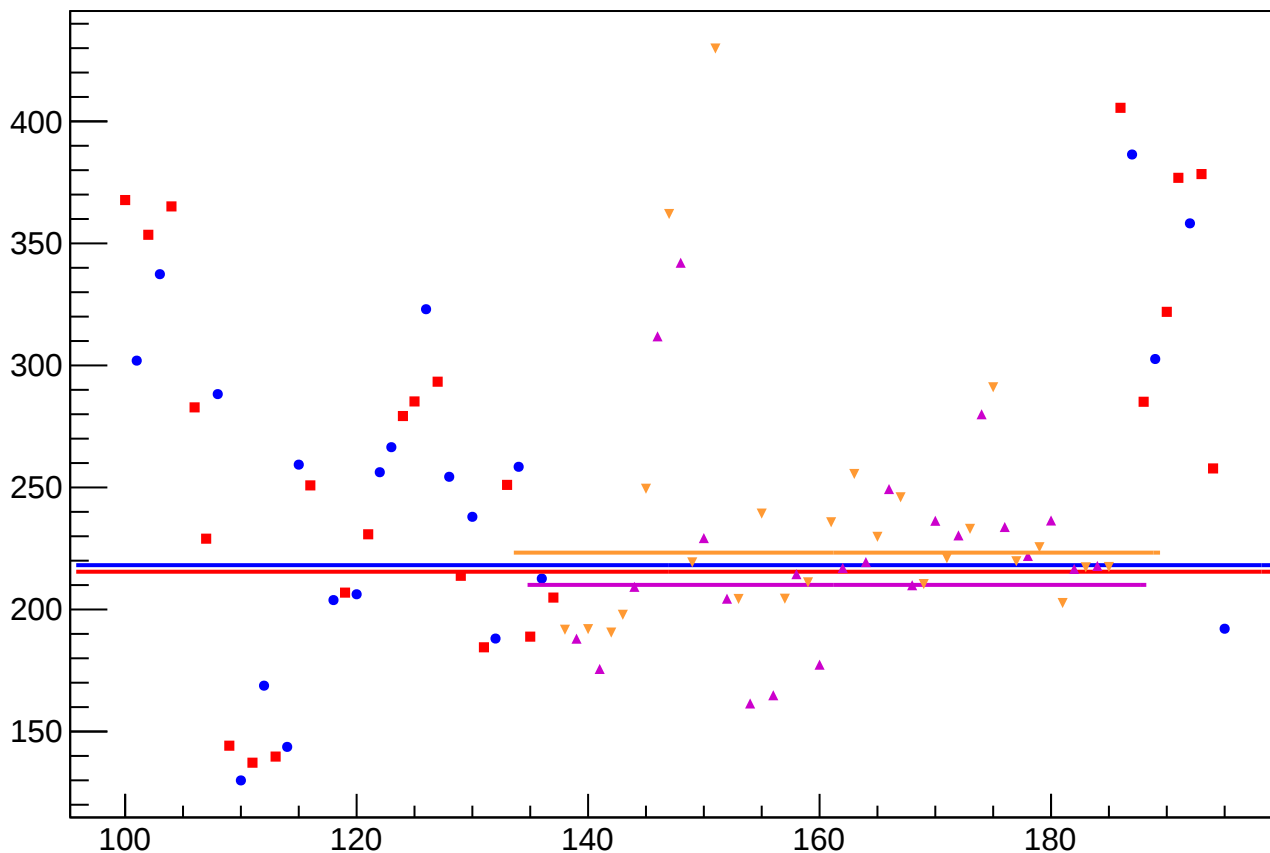
Right: -235.132+/-52.008 χ^2/NDF : 4445.2/45

In: -96.214+/-42.938 χ^2/NDF :2335.4/43

Out: 595.021+/-42.637 χ^2/NDF :5186.2/49

All: 251.834+/-30.254 χ^2/NDF : 7652.1/93

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 218.161 ± 0.054 $\chi^2/\text{NDF}: 1326287.1/20$

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 $\chi^2/\text{NDF}: 2001132.1/47$

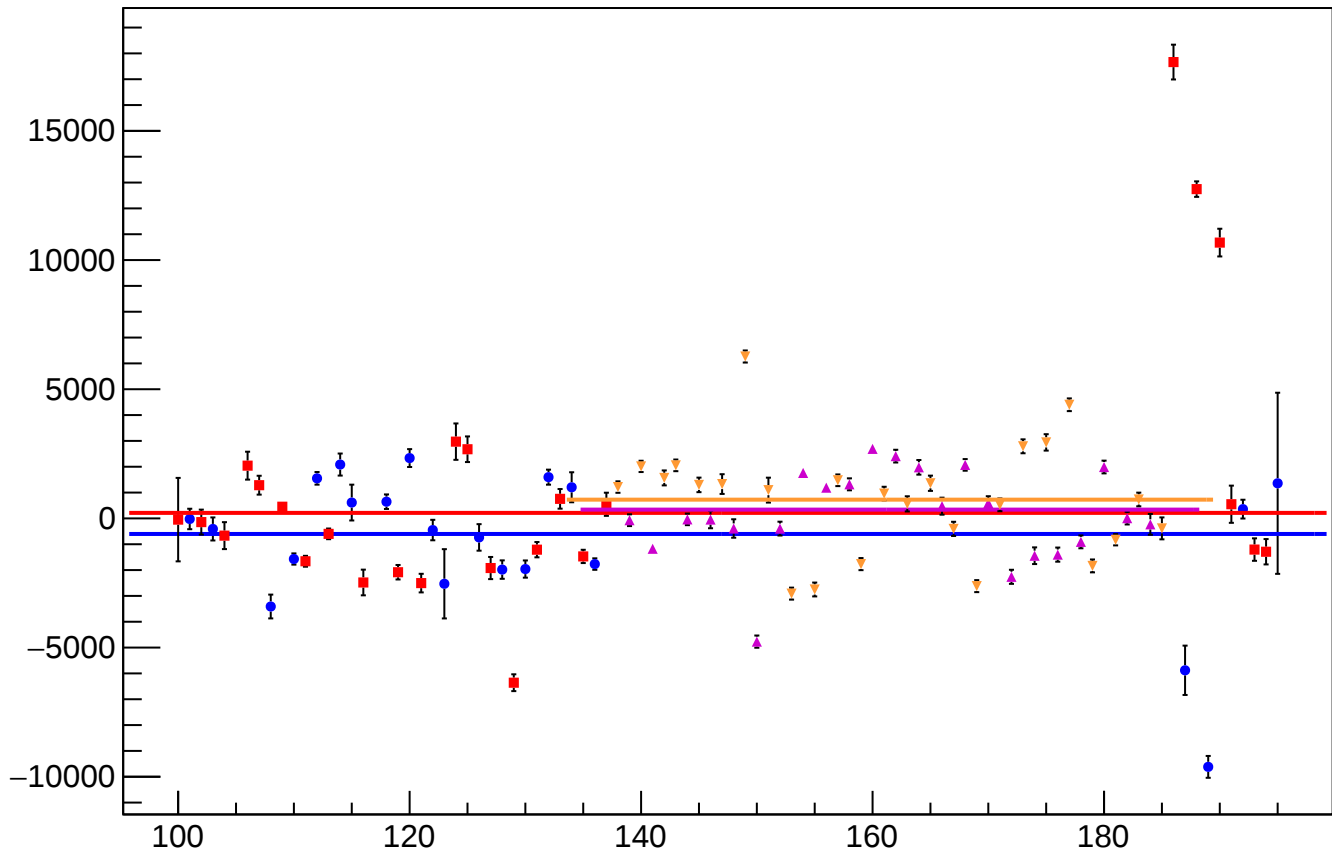
Right: 216.728 ± 0.037 $\chi^2/\text{NDF}: 3396976.1/45$

In: 212.648 ± 0.030 $\chi^2/\text{NDF}: 2356920.1/43$

Out: 220.490 ± 0.030 $\chi^2/\text{NDF}: 3007611.0/49$

All: 216.597 ± 0.021 $\chi^2/\text{NDF}: 5398127.3/93$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -602.409+/-79.179 χ^2/NDF : 891.9/20

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

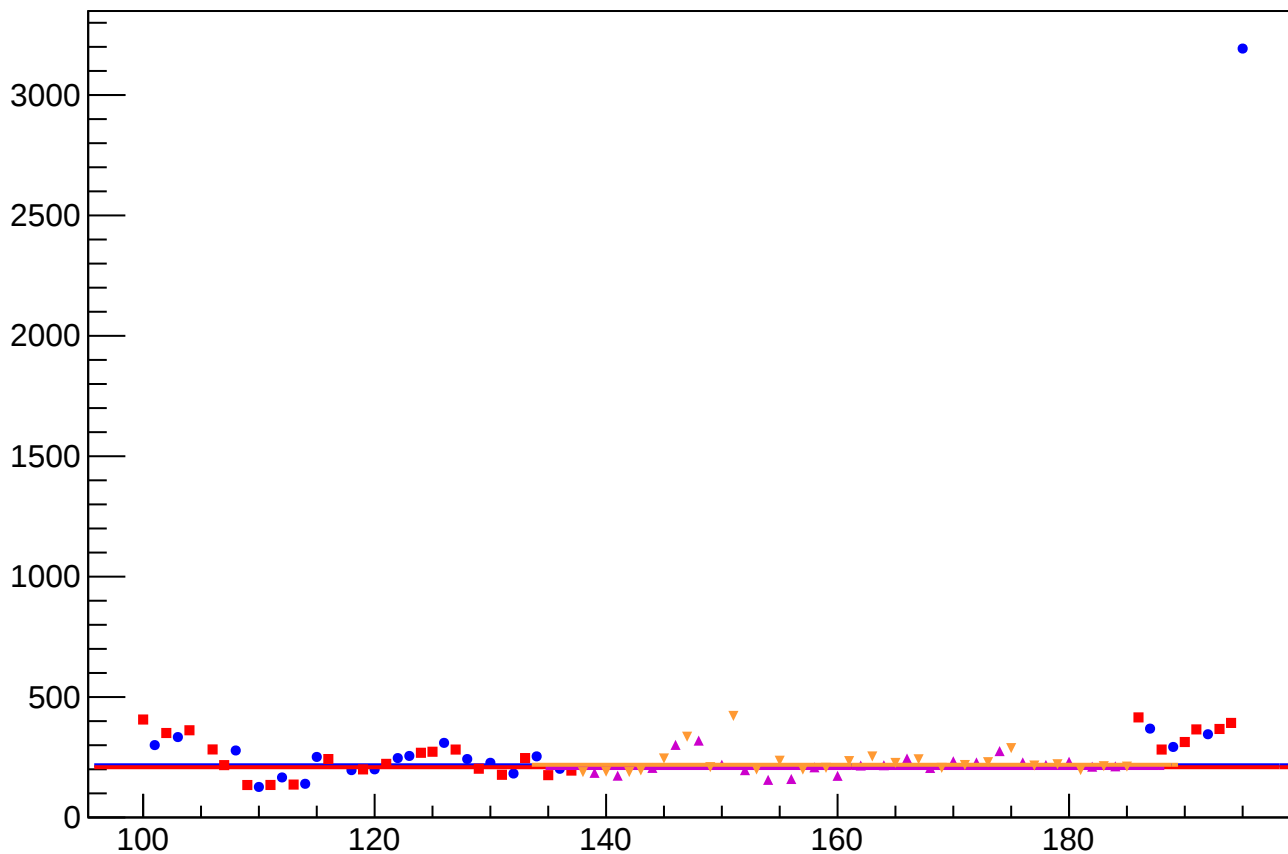
Right: -144.796+/-52.469 χ^2/NDF : 4583.1/45

In: 65.531+/-42.758 χ^2/NDF : 2194.2/43

Out: 543.147+/-41.837 χ^2/NDF : 5578.8/49

All: 309.537+/-29.904 χ^2/NDF : 7836.7/93

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 216.680 $\pm$ 0.056 χ^2 /NDF: 2720174.7/20

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

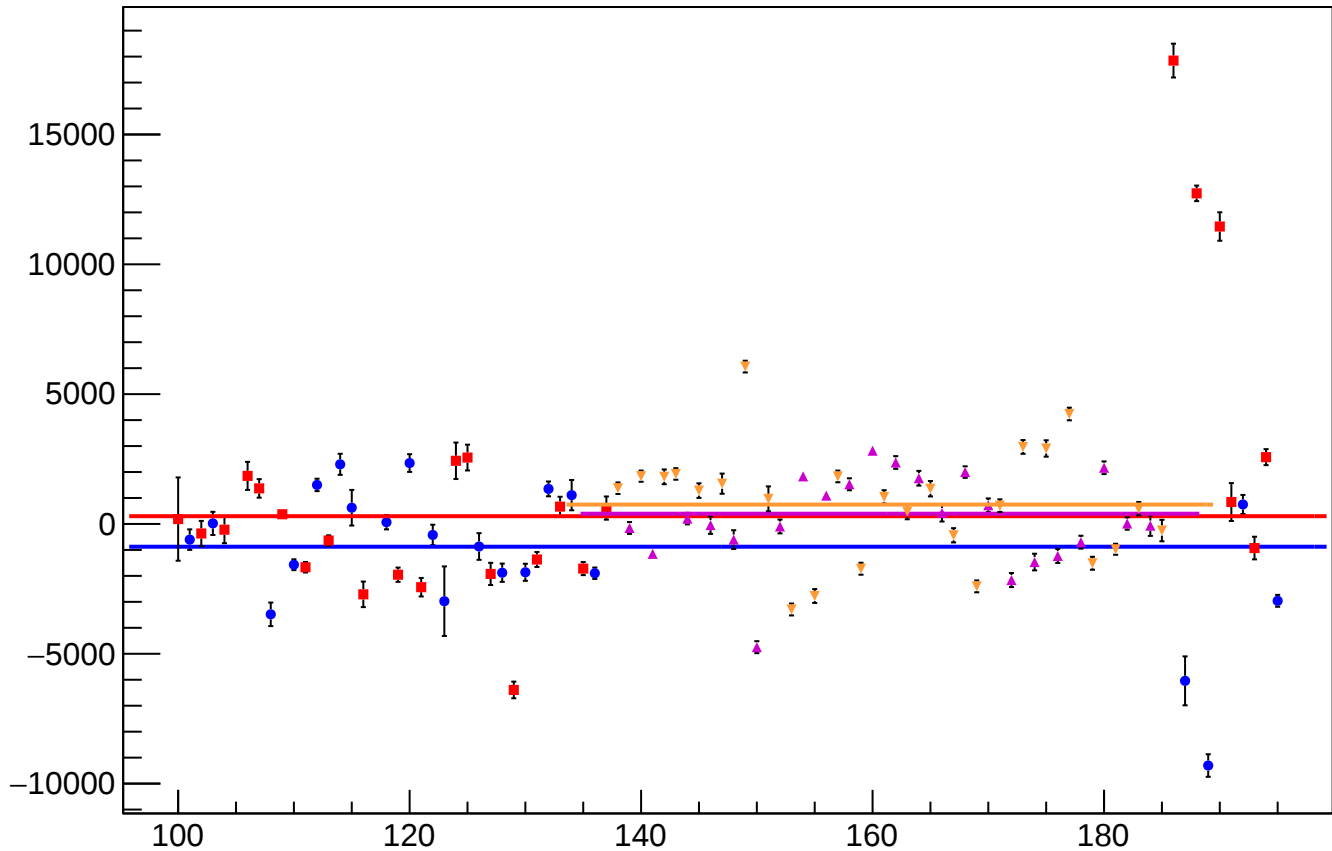
Right: 212.129 $\pm$ 0.037 χ^2 /NDF: 5150800.1/45

In: 208.583 $\pm$ 0.030 χ^2 /NDF: 3746873.1/43

Out: 215.130 $\pm$ 0.030 χ^2 /NDF: 3343050.4/49

All: 211.927 $\pm$ 0.021 χ^2 /NDF: 7113881.1/93

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -876.857 ± 73.837 $\chi^2/\text{NDF}: 937.5/20$

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 $\chi^2/\text{NDF}: 3202.4/47$

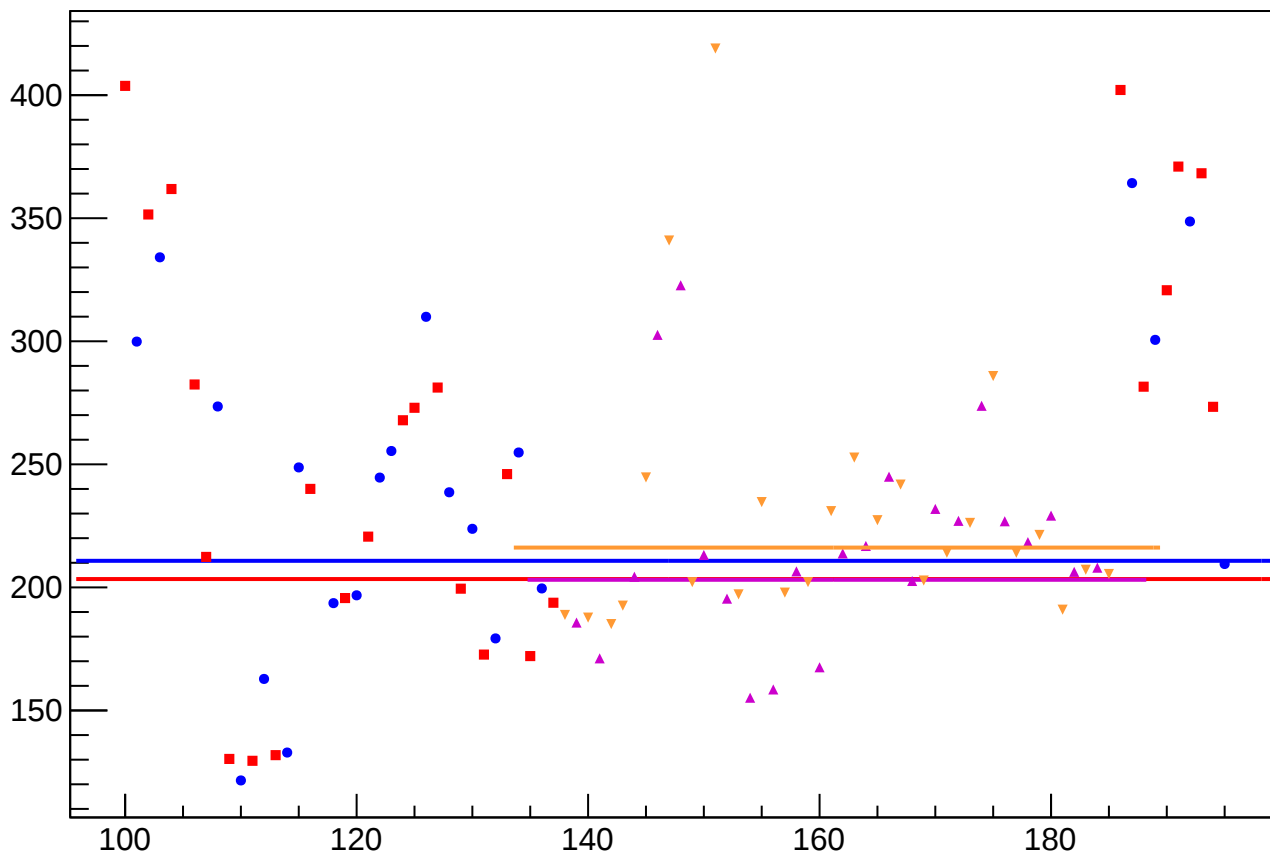
Right: -238.722 ± 49.924 $\chi^2/\text{NDF}: 4887.5/45$

In: -8.693 ± 41.577 $\chi^2/\text{NDF}: 2376.4/43$

Out: 582.098 ± 41.048 $\chi^2/\text{NDF}: 5782.1/49$

All: 290.487 ± 29.210 $\chi^2/\text{NDF}: 8260.7/93$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 210.802 ± 0.052 χ^2/NDF : 1398003.2/20

Left Out: 216.178 ± 0.036 χ^2/NDF : 946050.8/24

Right Out: 203.393 ± 0.048 χ^2/NDF : 2398641.4/24

Left In: 203.101 ± 0.036 χ^2/NDF : 1038013.0/22

Left: 209.475 ± 0.025 χ^2/NDF : 2049926.5/47

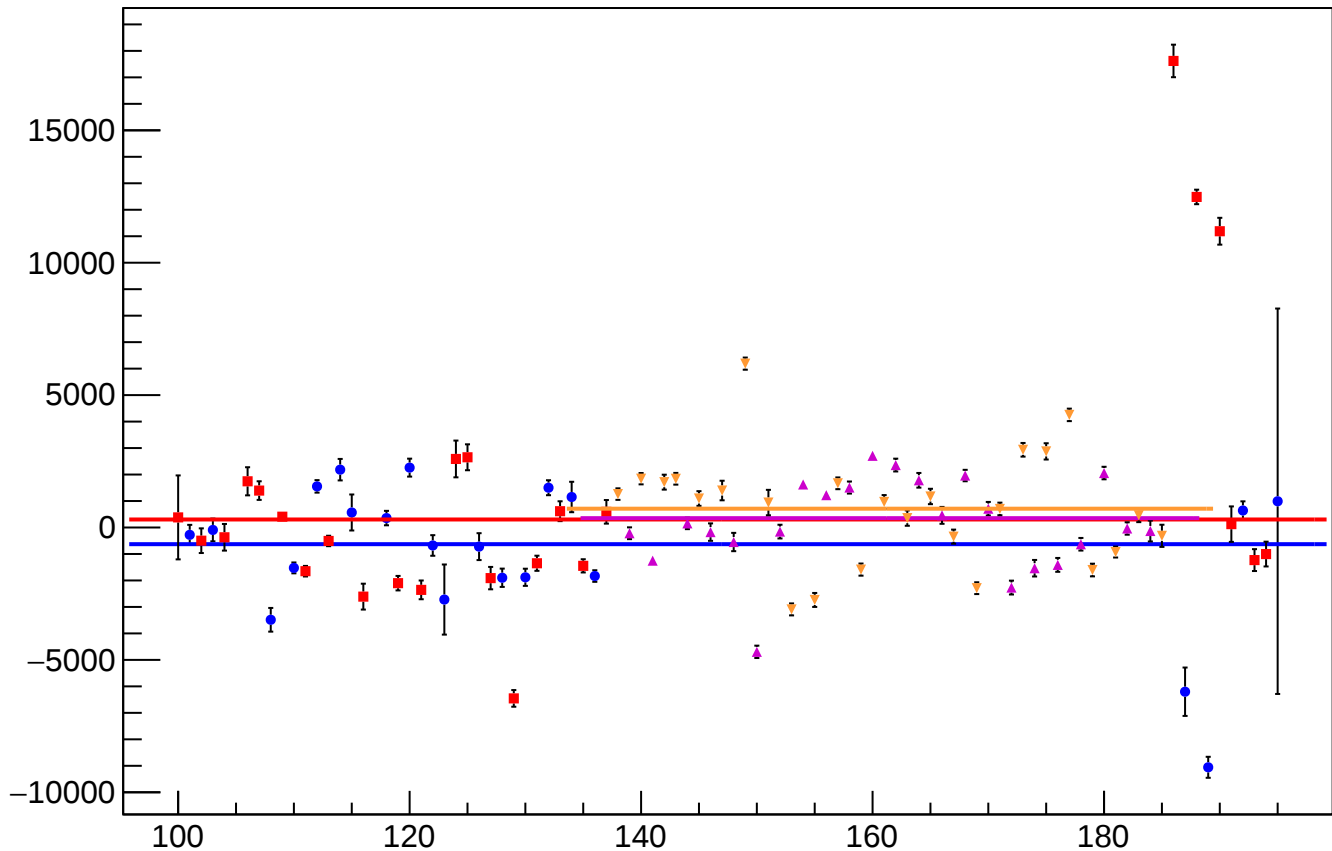
Right: 206.780 ± 0.035 χ^2/NDF : 3807576.3/45

In: 205.543 ± 0.029 χ^2/NDF : 2450873.6/43

Out: 211.486 ± 0.029 χ^2/NDF : 3389766.6/49

All: 208.552 ± 0.021 χ^2/NDF : 5861336.6/93

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.719 ± 76.515 $\chi^2/\text{NDF}: 914.7/20$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 302.761 ± 67.173 $\chi^2/\text{NDF}: 4161.2/24$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

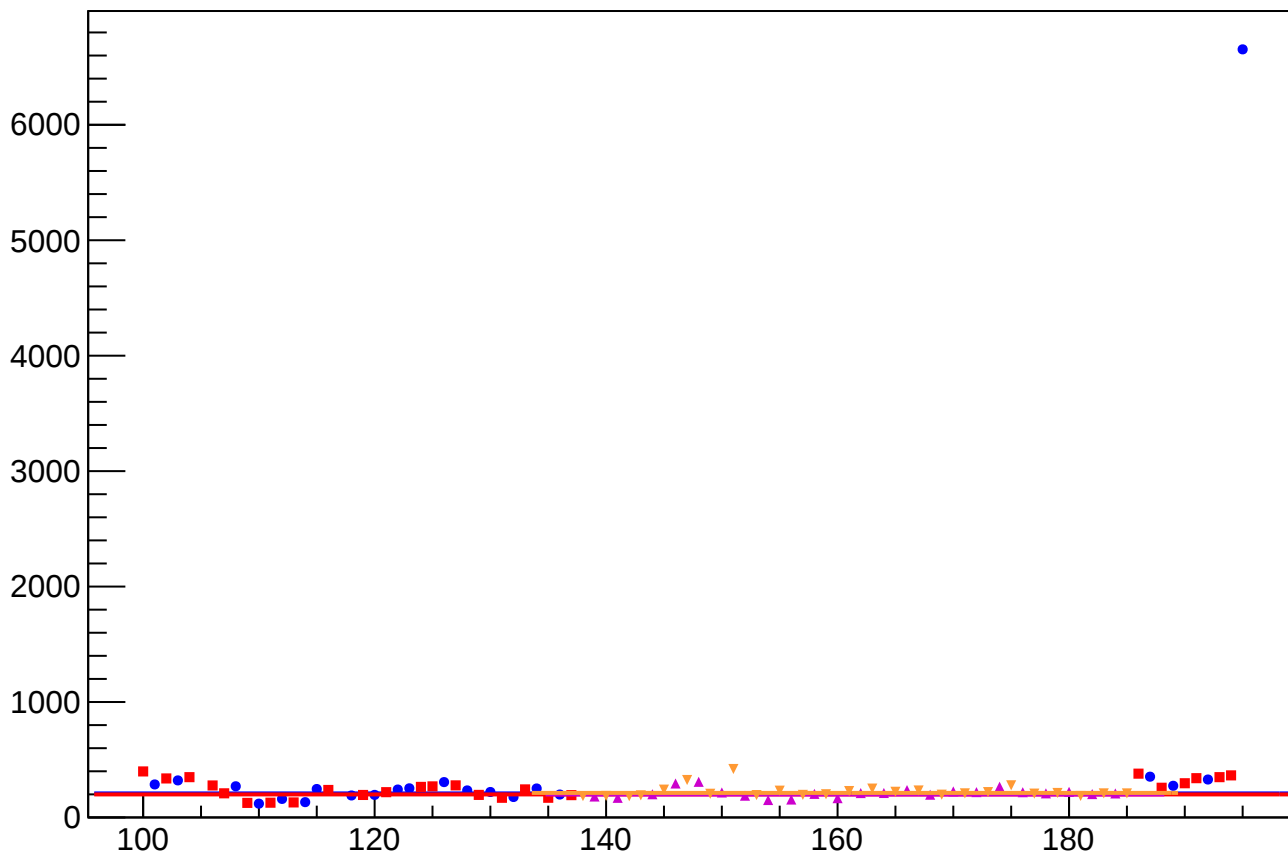
Right: -103.103 ± 50.480 $\chi^2/\text{NDF}: 5159.8/45$

In: 64.180 ± 41.452 $\chi^2/\text{NDF}: 2264.2/43$

Out: 562.166 ± 40.493 $\chi^2/\text{NDF}: 6116.9/49$

All: 319.002 ± 28.966 $\chi^2/\text{NDF}: 8454.9/93$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 208.303+/-0.054 χ^2/NDF : 2864773.5/20

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 199.483+/-0.047 χ^2/NDF : 2408917.1/24

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

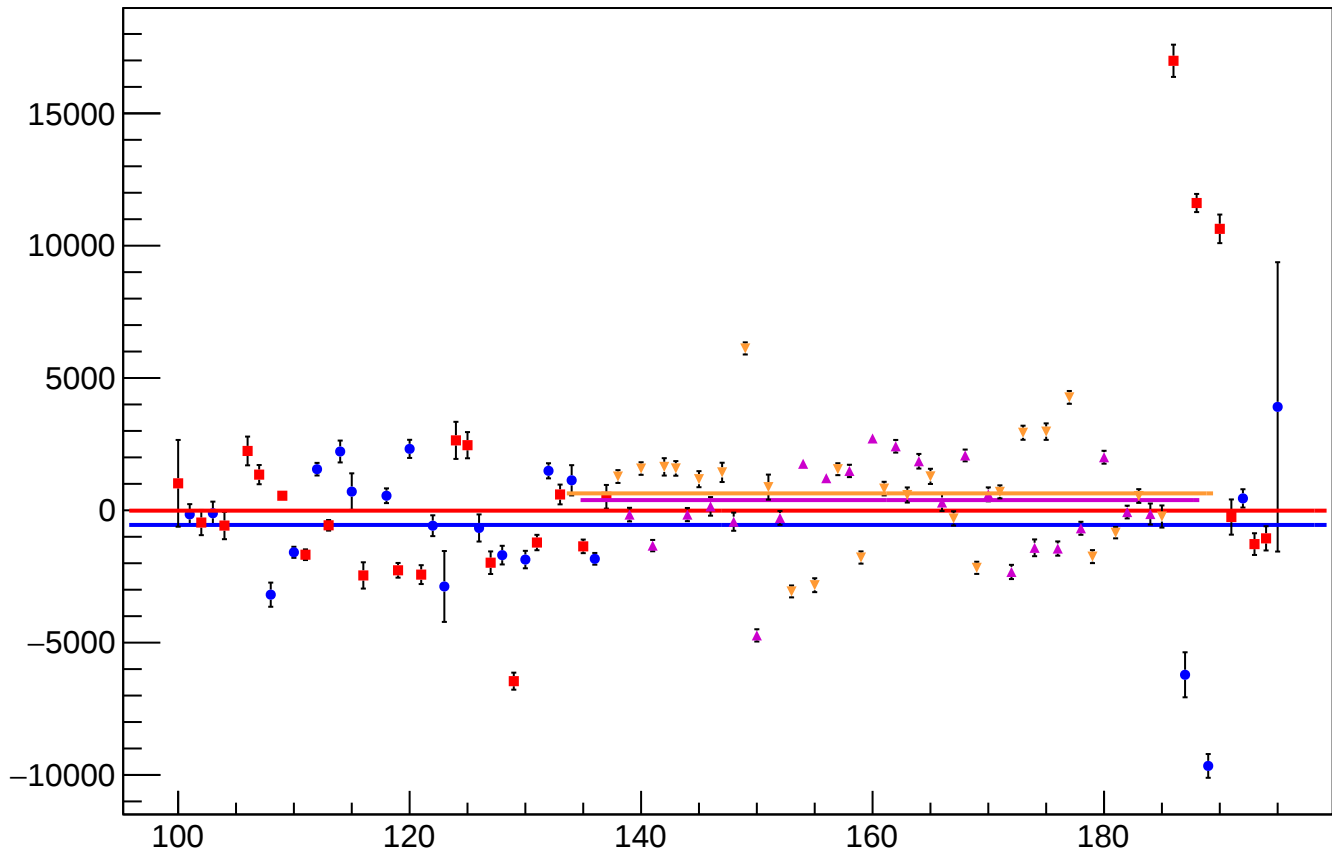
Right: 203.322+/-0.036 χ^2/NDF : 5288698.3/45

In: 201.831+/-0.029 χ^2/NDF : 3870961.8/43

Out: 207.909+/-0.029 χ^2/NDF : 3374571.1/49

All: 204.941+/-0.020 χ^2/NDF : 7267537.0/93

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -552.462+/-77.866 χ^2/NDF : 859.6/20

Left Out: 639.995+/-52.708 χ^2/NDF :1859.2/24

Right Out: -12.688+/-69.107 χ^2/NDF : 3095.9/24

Left In: 386.248+/-50.994 χ^2/NDF :1238.0/22

Left: 508.926+/-36.649 χ^2/NDF : 3109.2/47

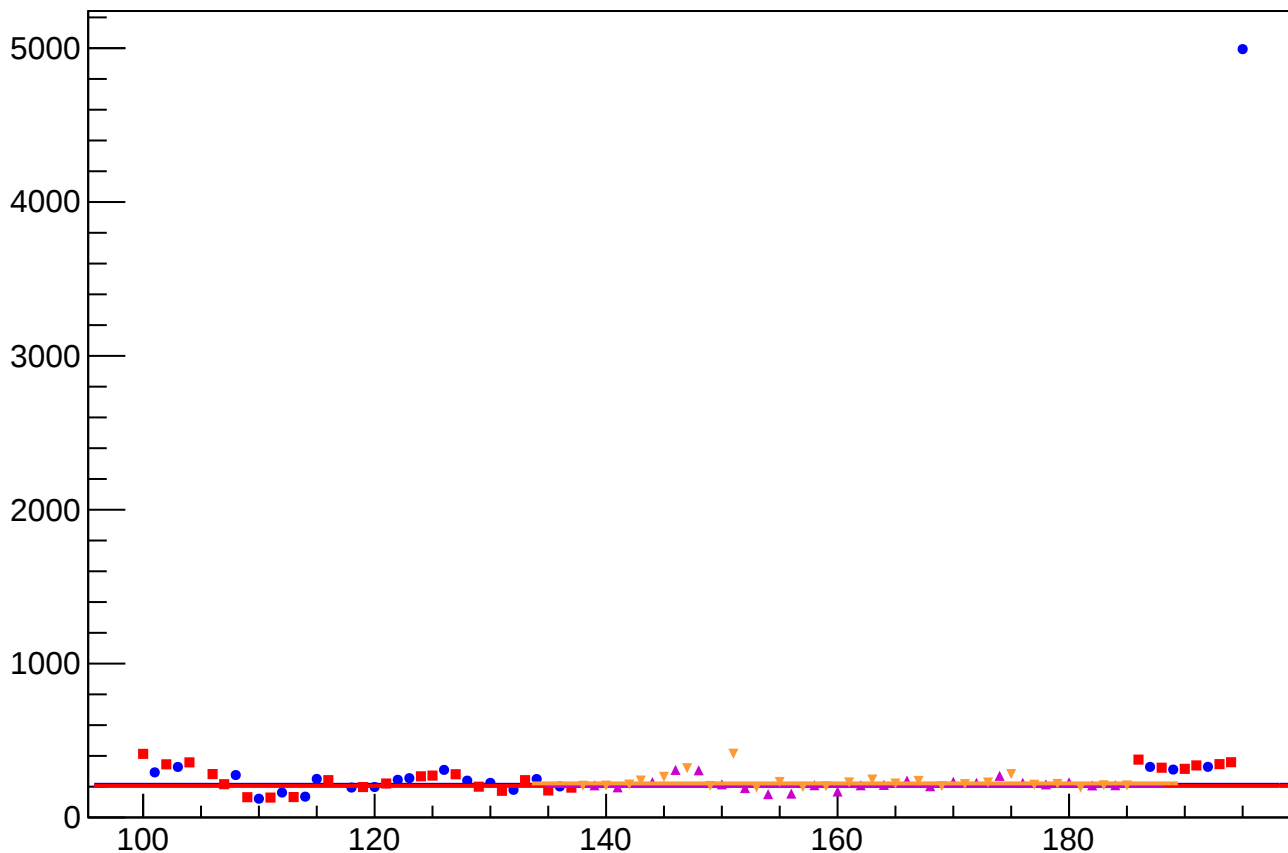
Right: -250.520+/-51.687 χ^2/NDF : 3982.4/45

In: 104.494+/-42.660 χ^2/NDF :2199.4/43

Out: 399.953+/-41.910 χ^2/NDF :5011.5/49

All: 254.844+/-29.896 χ^2/NDF : 7235.3/93

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 212.158+/-0.055 χ^2/NDF : 2851255.7/20

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 204.997+/-0.049 χ^2/NDF : 2492074.4/24

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

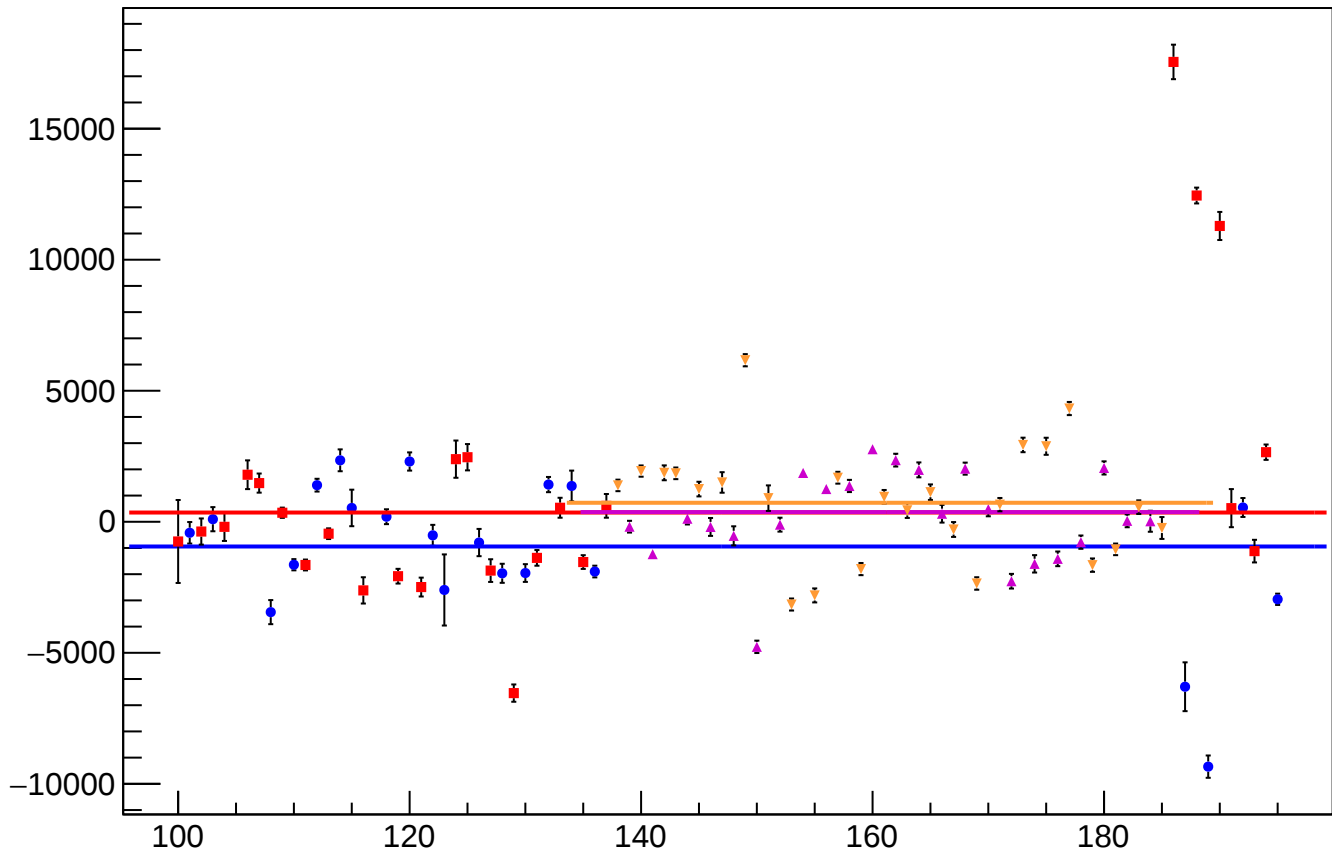
Right: 208.152+/-0.037 χ^2/NDF : 5352789.7/45

In: 207.711+/-0.030 χ^2/NDF : 3855480.0/43

Out: 215.366+/-0.030 χ^2/NDF : 3341123.5/49

All: 211.606+/-0.021 χ^2/NDF : 7229381.1/93

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -943.277 ± 74.545 $\chi^2/\text{NDF}: 955.3/20$

Left Out: 725.250 ± 52.307 $\chi^2/\text{NDF}: 1883.1/24$

Right Out: 352.539 ± 68.989 $\chi^2/\text{NDF}: 3651.2/24$

Left In: 370.408 ± 50.884 $\chi^2/\text{NDF}: 1223.2/22$

Left: 542.938 ± 36.473 $\chi^2/\text{NDF}: 3129.9/47$

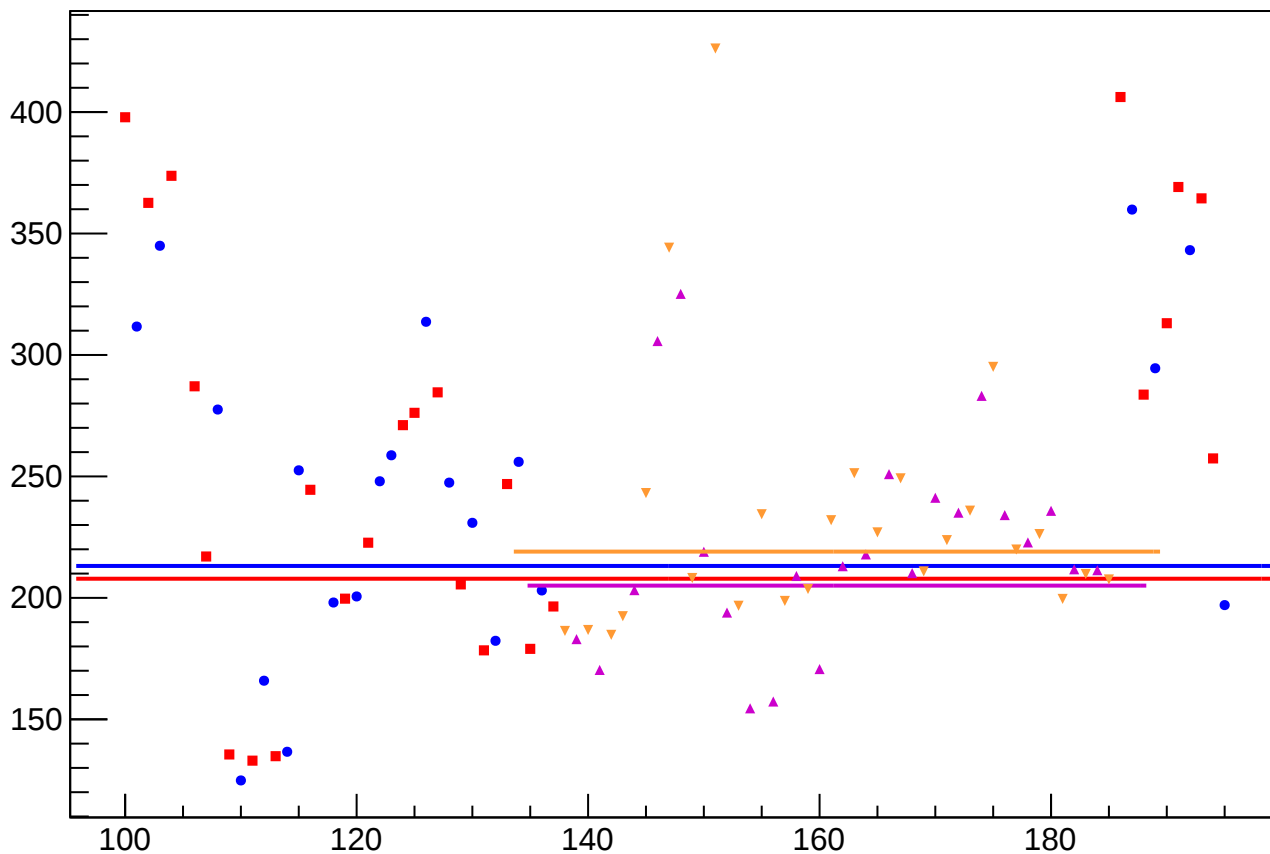
Right: -245.290 ± 50.633 $\chi^2/\text{NDF}: 4769.2/45$

In: -47.142 ± 42.027 $\chi^2/\text{NDF}: 2390.3/43$

Out: 589.203 ± 41.681 $\chi^2/\text{NDF}: 5552.9/49$

All: 273.657 ± 29.595 $\chi^2/\text{NDF}: 8058.7/93$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 213.146 $\pm$ 0.053 χ^2/NDF : 1360543.0/20

Left Out: 219.049 $\pm$ 0.037 χ^2/NDF : 975564.4/24

Right Out: 207.884 $\pm$ 0.049 χ^2/NDF : 2245177.0/24

Left In: 205.046 $\pm$ 0.036 χ^2/NDF : 1144197.1/22

Left: 211.855 $\pm$ 0.026 χ^2/NDF : 2193394.9/47

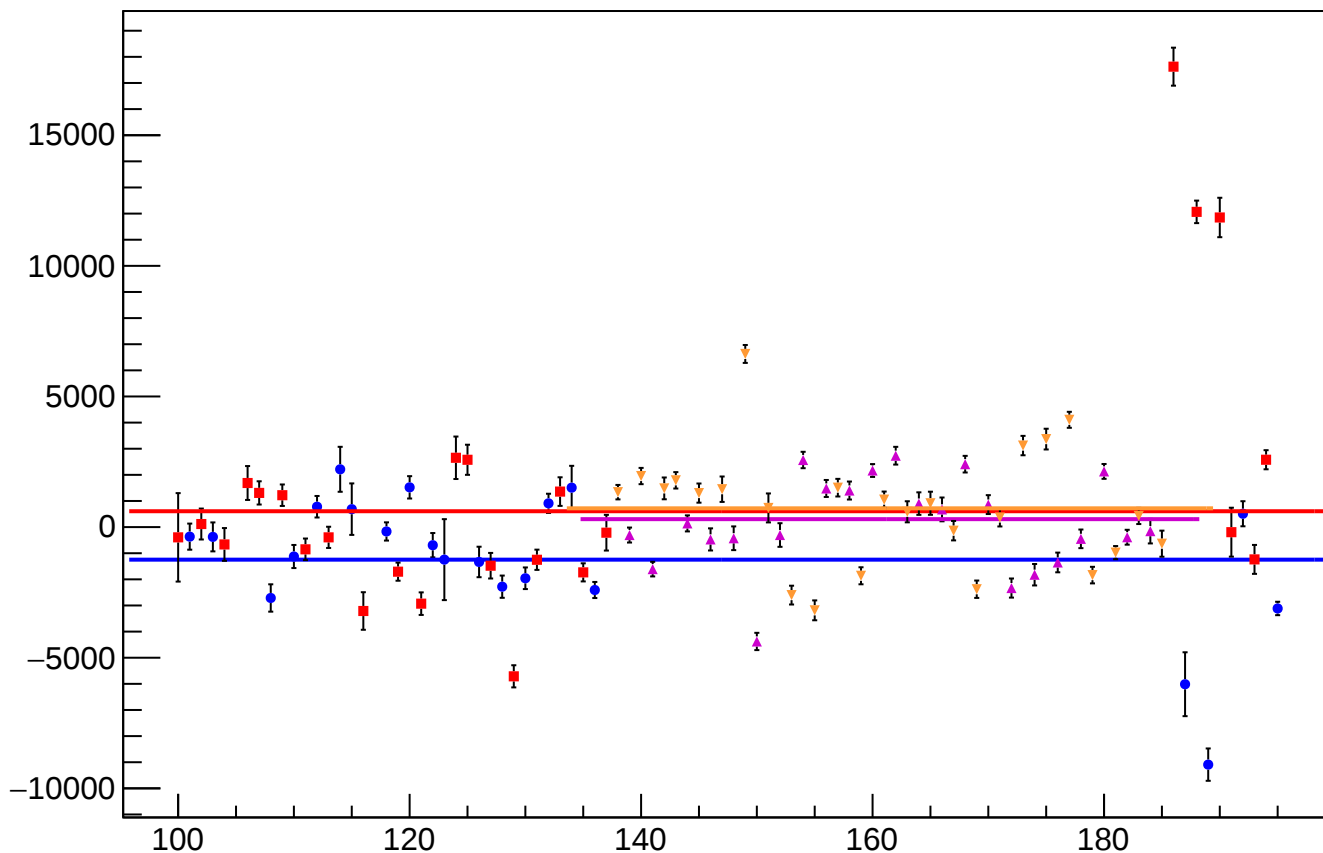
Right: 210.311 $\pm$ 0.036 χ^2/NDF : 3611087.7/45

In: 207.621 $\pm$ 0.030 χ^2/NDF : 2520845.2/43

Out: 214.973 $\pm$ 0.029 χ^2/NDF : 3254001.8/49

All: 211.327 $\pm$ 0.021 χ^2/NDF : 5805705.6/93

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -1246.173 ± 100.272 $\chi^2/\text{NDF}: 421.1/20$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: 607.263 ± 98.863 $\chi^2/\text{NDF}: 2018.9/24$

Left In: 304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

Left: 515.435 ± 49.688 $\chi^2/\text{NDF}: 1679.4/47$

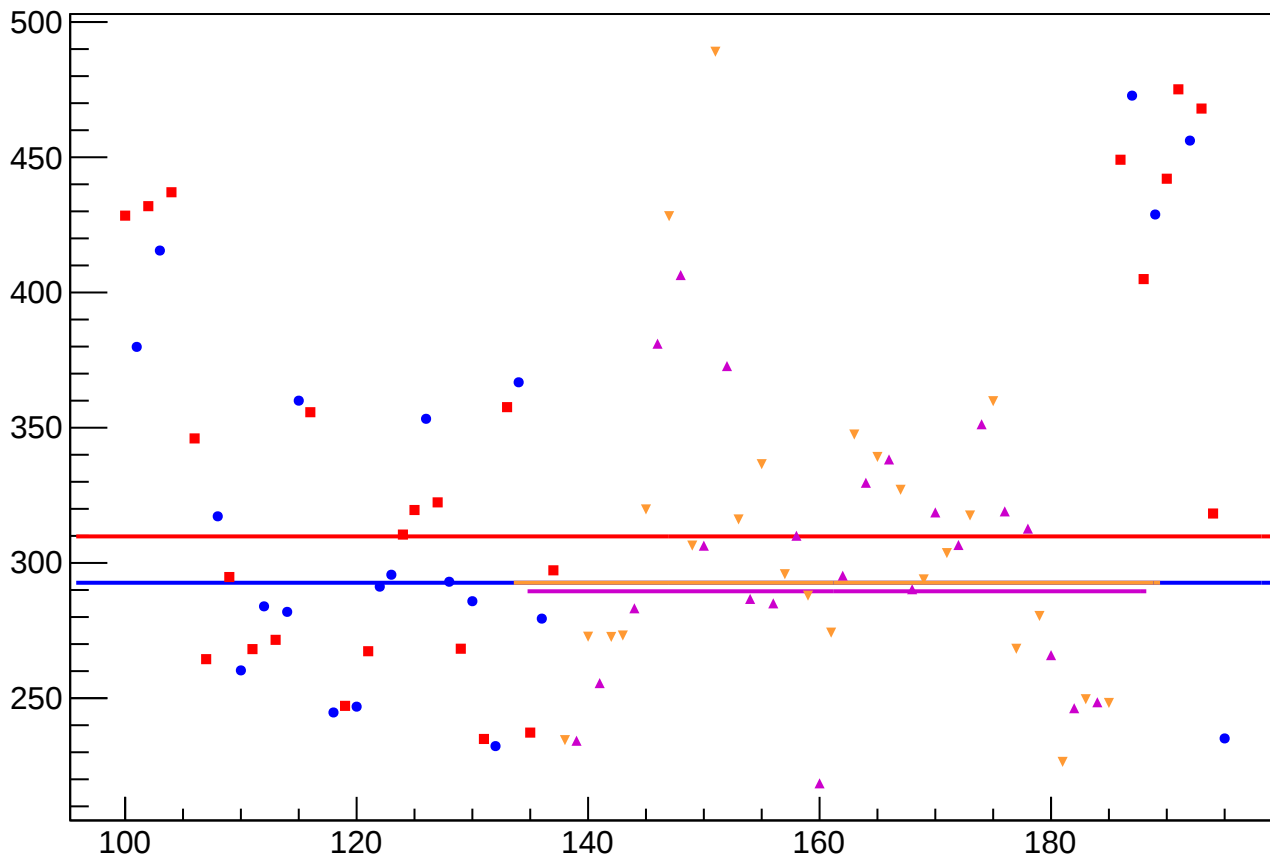
Right: -306.341 ± 70.400 $\chi^2/\text{NDF}: 2613.2/45$

In: -213.144 ± 57.922 $\chi^2/\text{NDF}: 1223.9/43$

Out: 681.775 ± 56.912 $\chi^2/\text{NDF}: 3038.2/49$

All: 242.187 ± 40.595 $\chi^2/\text{NDF}: 4383.6/93$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 292.675 ± 0.071 χ^2/NDF : 814048.6/20

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

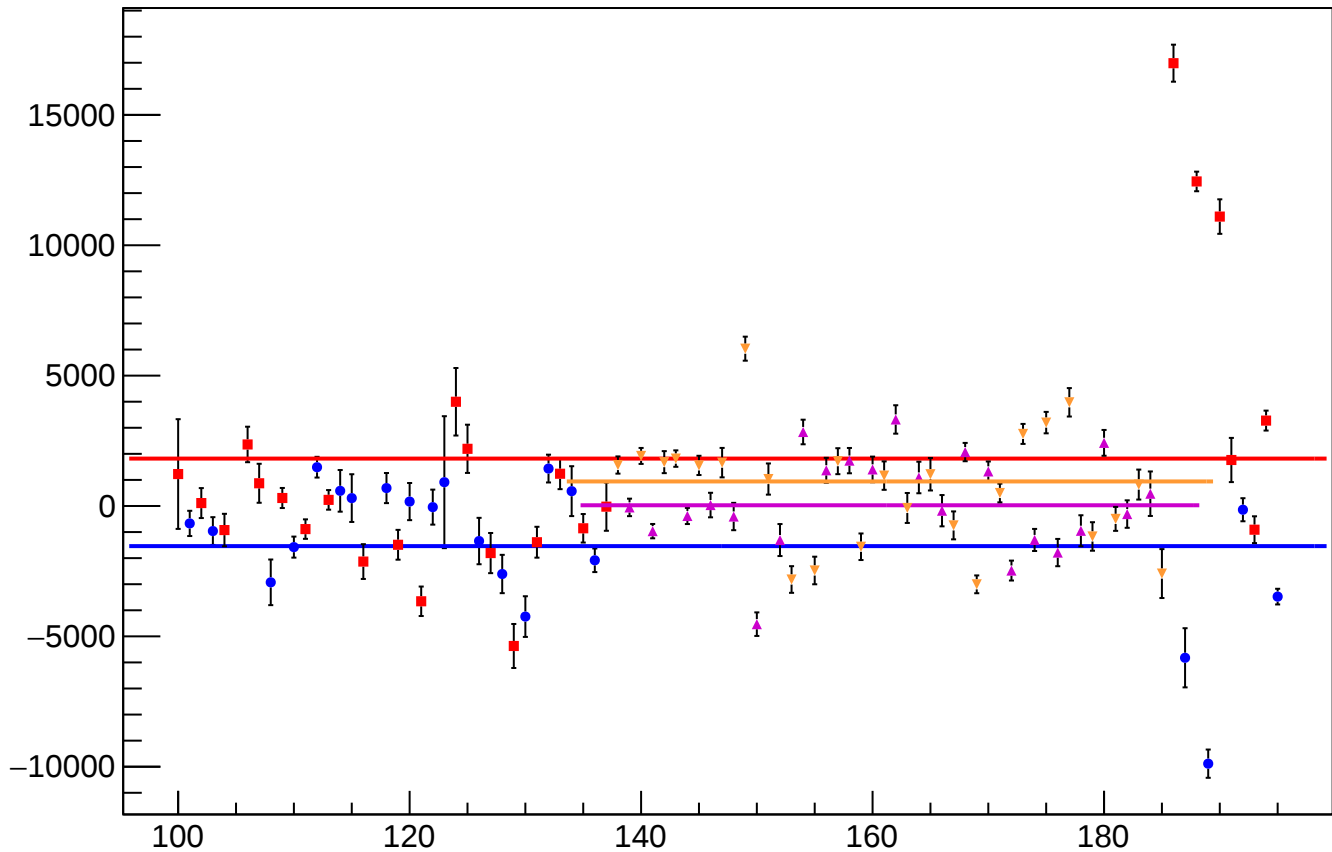
Right: 301.365 ± 0.050 χ^2/NDF : 1840095.2/45

In: 290.574 ± 0.041 χ^2/NDF : 1593267.3/43

Out: 298.362 ± 0.040 χ^2/NDF : 1961747.9/49

All: 294.536 ± 0.029 χ^2/NDF : 3573411.5/93

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -1539.043 $\pm$ 122.840 χ^2/NDF : 456.8/20

Left Out: 941.598 $\pm$ 89.119 χ^2/NDF : 544.6/24

Right Out: 1818.005 $\pm$ 113.509 χ^2/NDF : 1929.5/24

Left In: 27.763 $\pm$ 92.331 χ^2/NDF : 362.5/22

Left: 500.853 $\pm$ 64.122 χ^2/NDF : 957.8/47

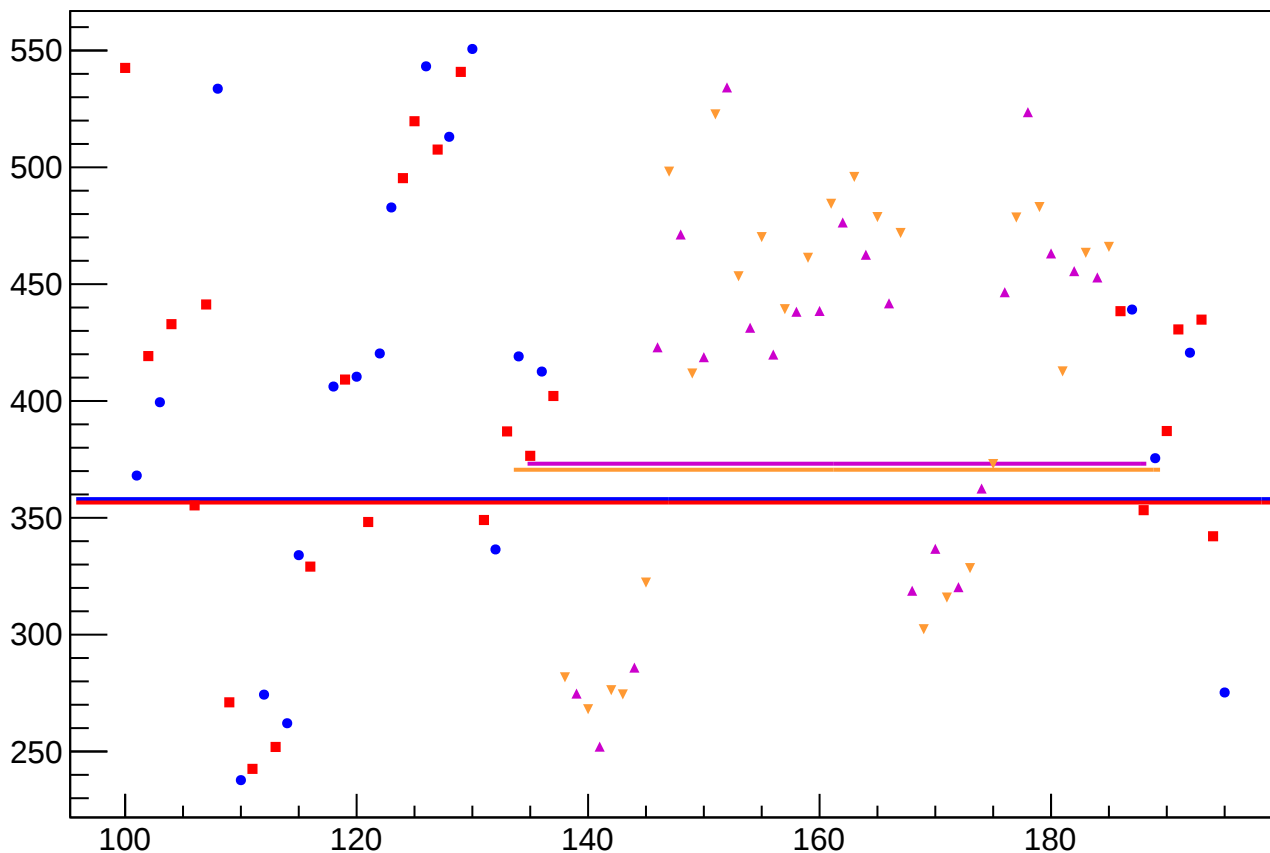
Right: 271.807 $\pm$ 83.367 χ^2/NDF : 2789.2/45

In: -537.863 $\pm$ 73.807 χ^2/NDF : 923.3/43

Out: 1275.816 $\pm$ 70.096 χ^2/NDF : 2510.9/49

All: 415.716 $\pm$ 50.827 χ^2/NDF : 3751.7/93

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 358.005 ± 0.087 χ^2/NDF : 979043.6/20

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

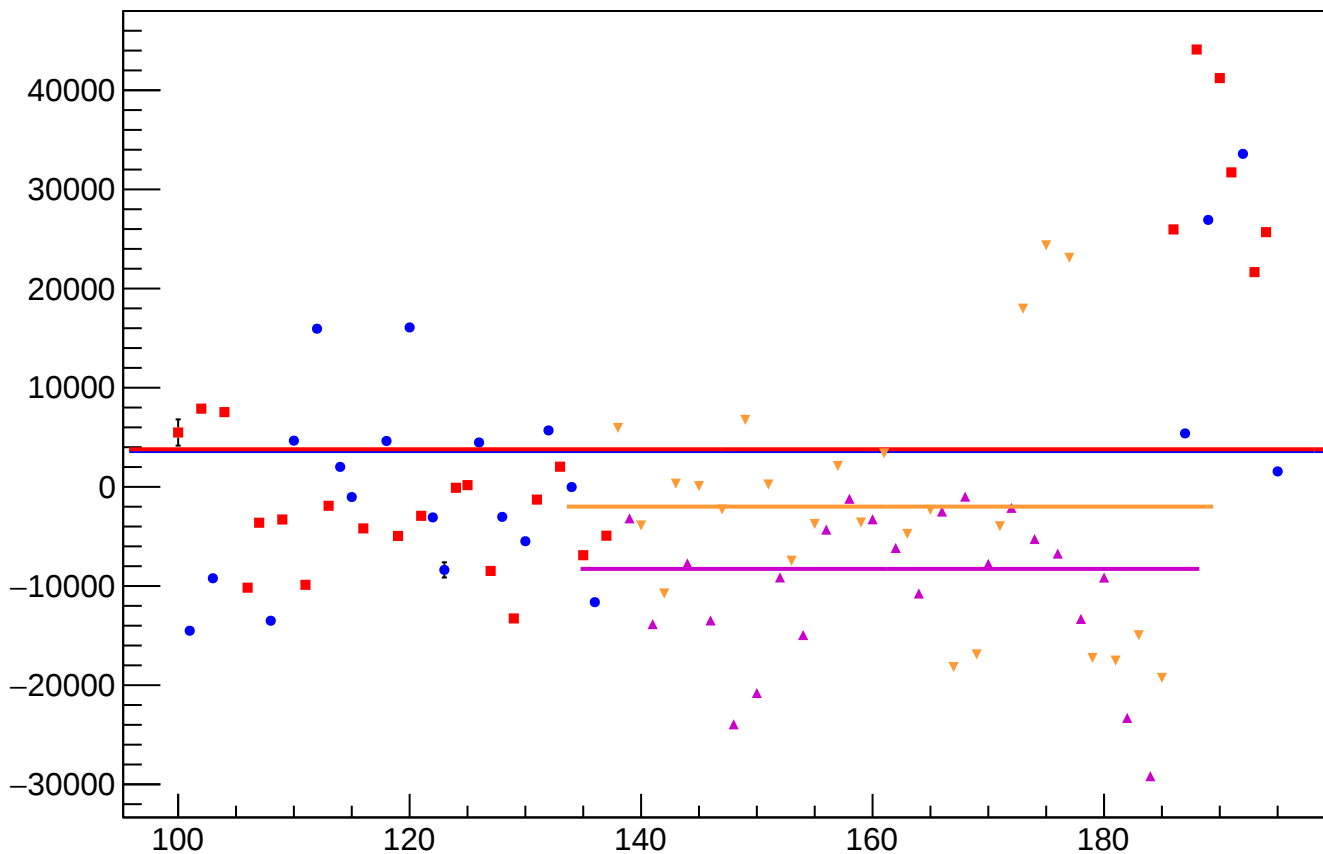
Right: 357.218 ± 0.059 χ^2/NDF : 1900531.7/45

In: 367.689 ± 0.052 χ^2/NDF : 2634742.7/43

Out: 365.228 ± 0.050 χ^2/NDF : 2818367.1/49

All: 366.395 ± 0.036 χ^2/NDF : 5454279.1/93

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3612.301 $\pm$ 49.489 χ^2 /NDF: 68100.6/20

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF:63766.6/24

Right Out: 3792.448 $\pm$ 46.060 χ^2 /NDF: 126411.3/24

Left In: -8273.228 $\pm$ 44.301 χ^2 /NDF:22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2 /NDF: 97123.2/47

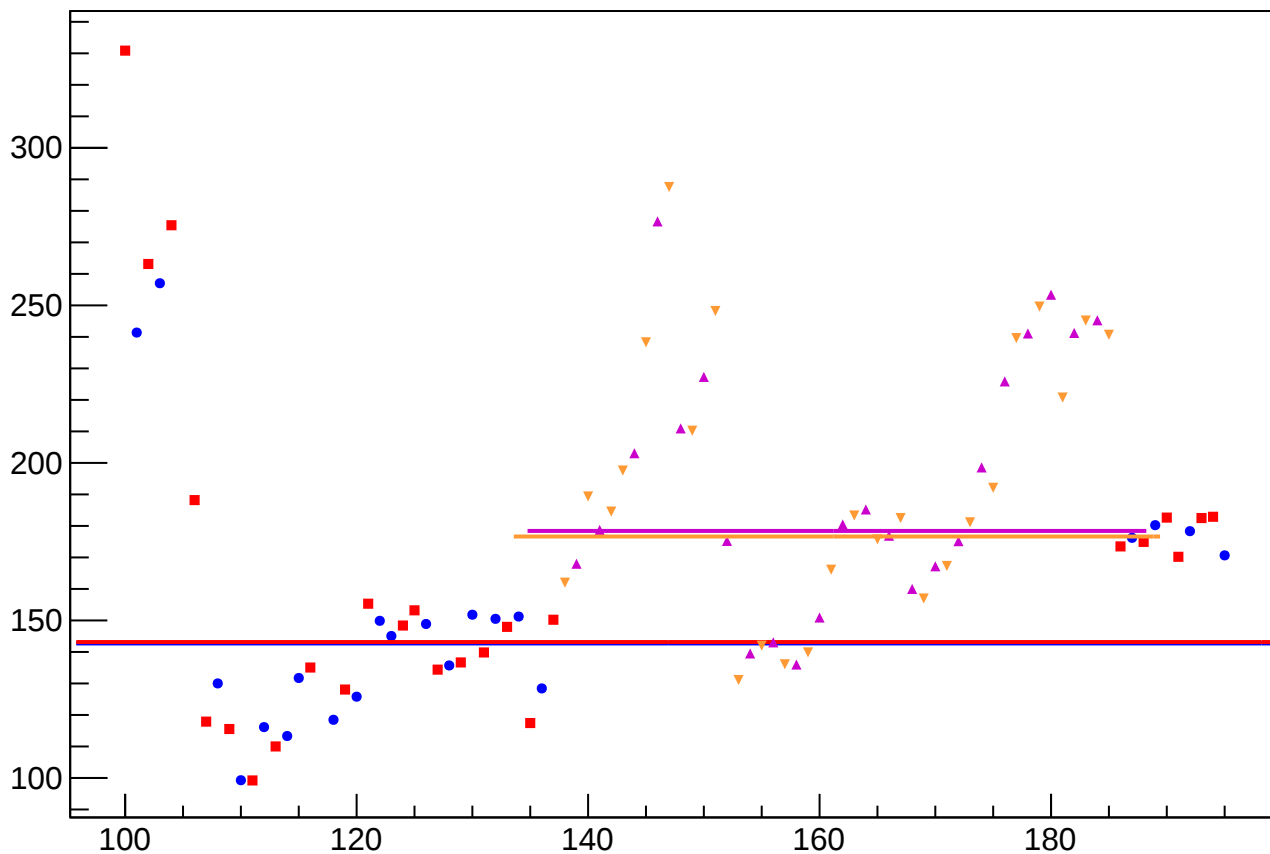
Right: 3708.831 $\pm$ 33.717 χ^2 /NDF: 194518.9/45

In: -2985.926 $\pm$ 33.008 χ^2 /NDF:122990.8/43

Out: 663.213 $\pm$ 31.206 χ^2 /NDF:198709.5/49

All: -1059.021 $\pm$ 22.676 χ^2 /NDF: 328154.0/9

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 142.700 ± 0.035 χ^2/NDF : 864851.6/20

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

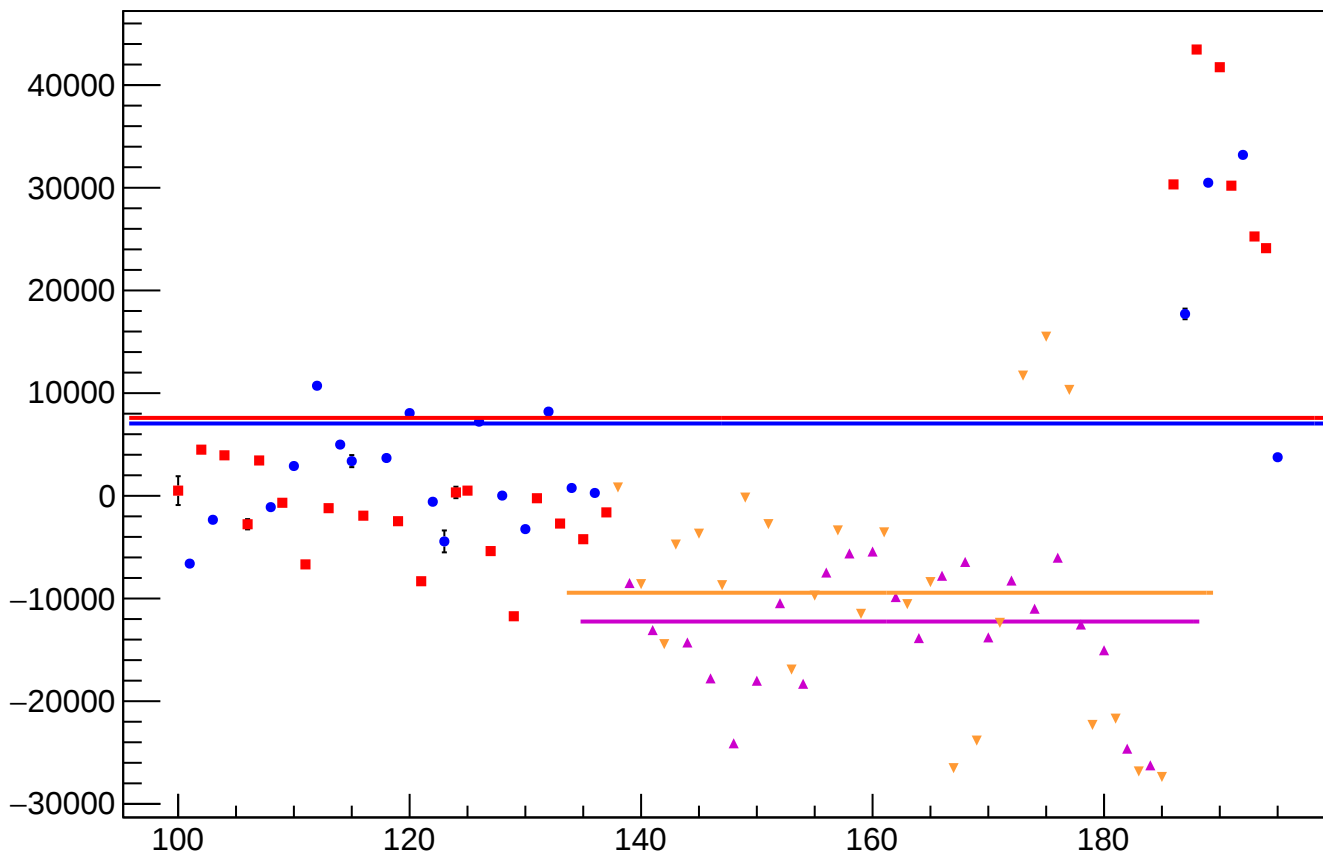
Right: 142.938 ± 0.024 χ^2/NDF : 2047018.0/45

In: 162.526 ± 0.023 χ^2/NDF : 2736794.7/43

Out: 161.266 ± 0.022 χ^2/NDF : 3305328.3/49

All: 161.861 ± 0.016 χ^2/NDF : 6043661.9/93

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7044.298+/-60.891 χ^2/NDF : 30960.6/20

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

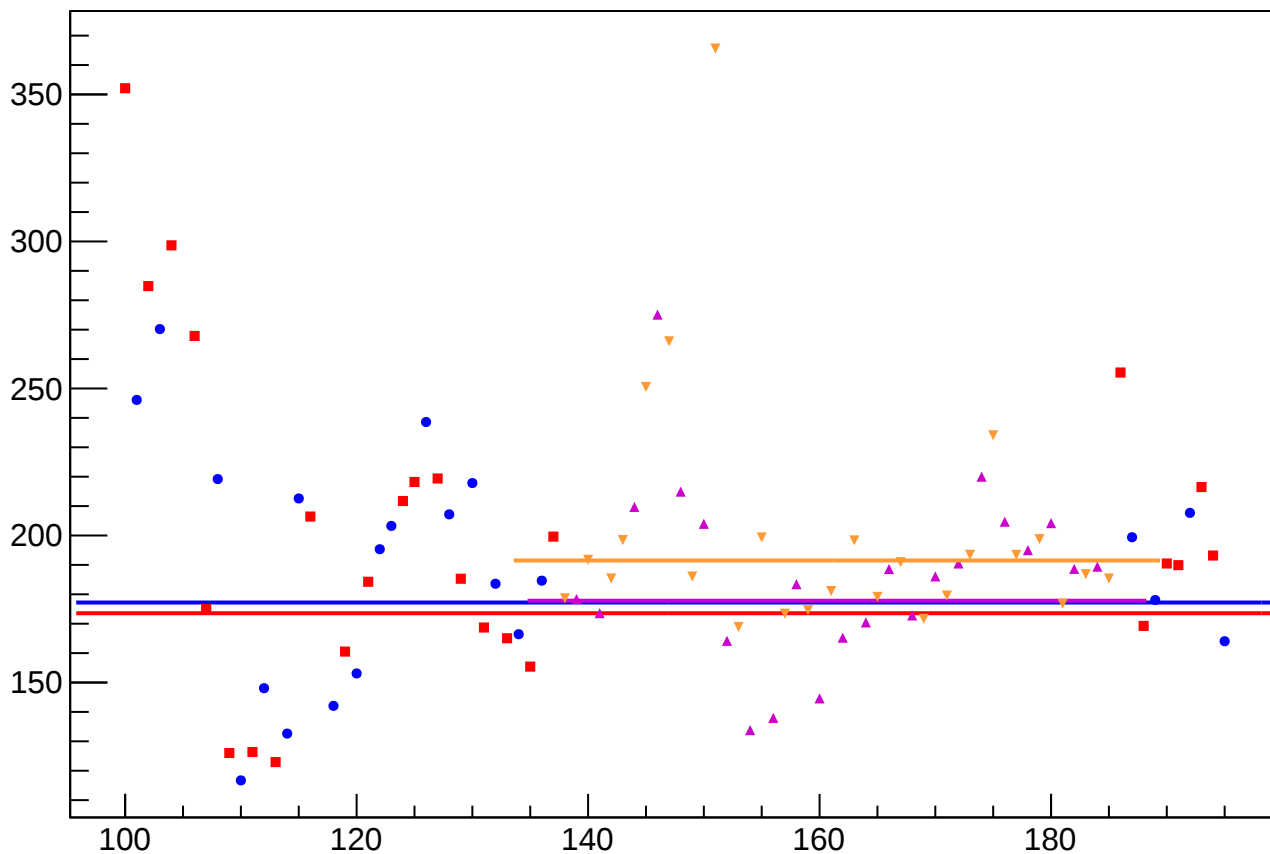
Right: 7341.008+/-41.087 χ^2/NDF : 126962.8/45

In: -5637.270+/-35.634 χ^2/NDF :113541.8/43

Out: -2612.646+/-35.246 χ^2/NDF :214223.5/49

All: -4108.416+/-25.059 χ^2/NDF : 331407.0/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 177.207 $\pm$ 0.043 χ^2/NDF : 742291.6/20

Left Out: 191.507 $\pm$ 0.032 χ^2/NDF : 727251.6/24

Right Out: 173.567 $\pm$ 0.039 χ^2/NDF : 1112478.4/24

Left In: 177.821 $\pm$ 0.031 χ^2/NDF : 862494.4/22

Left: 184.421 $\pm$ 0.022 χ^2/NDF : 1683284.8/47

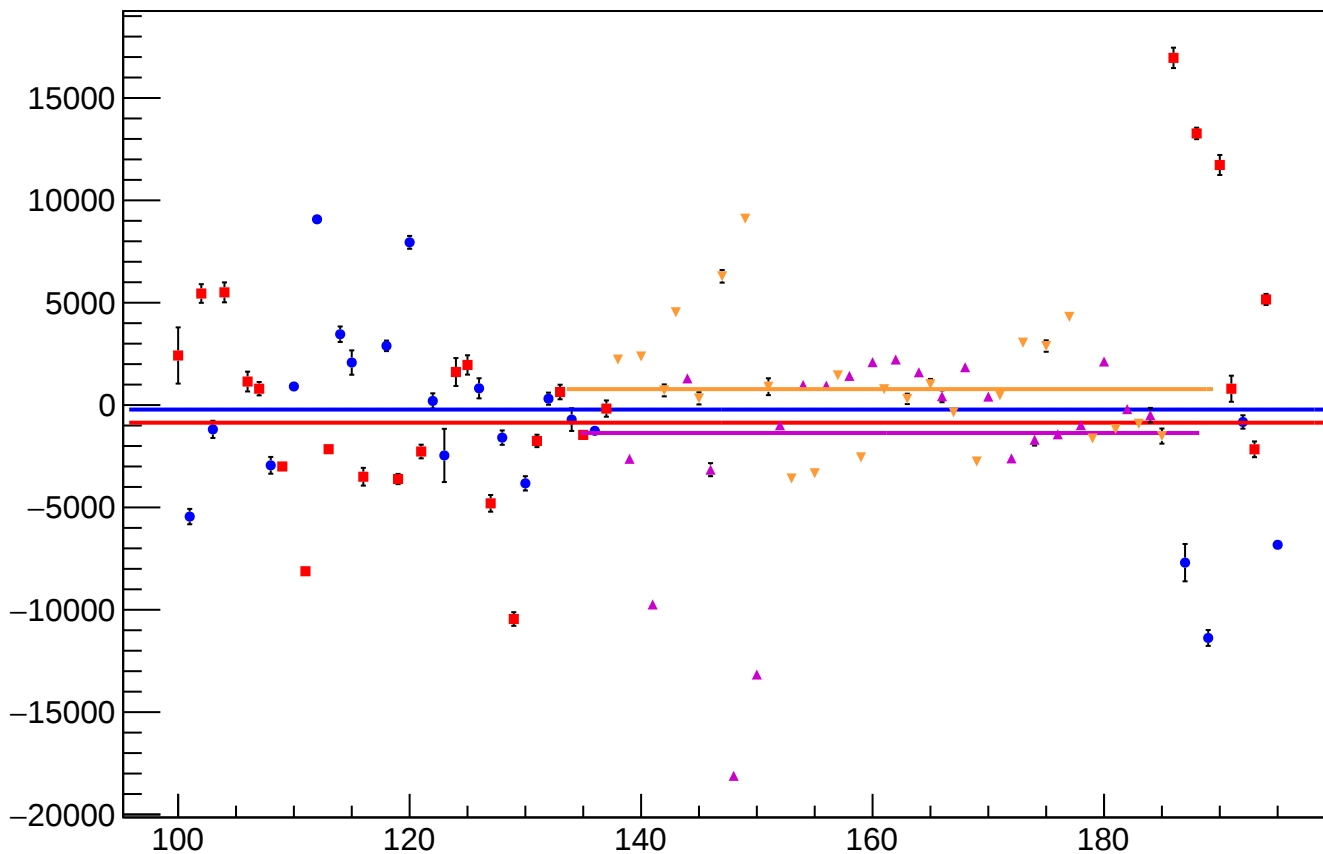
Right: 175.225 $\pm$ 0.029 χ^2/NDF : 1858662.8/45

In: 177.611 $\pm$ 0.025 χ^2/NDF : 1604919.8/43

Out: 184.316 $\pm$ 0.025 χ^2/NDF : 1964162.3/49

All: 181.000 $\pm$ 0.018 χ^2/NDF : 3604874.0/93

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -218.913+/-69.084 χ^2/NDF : 5030.6/20

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

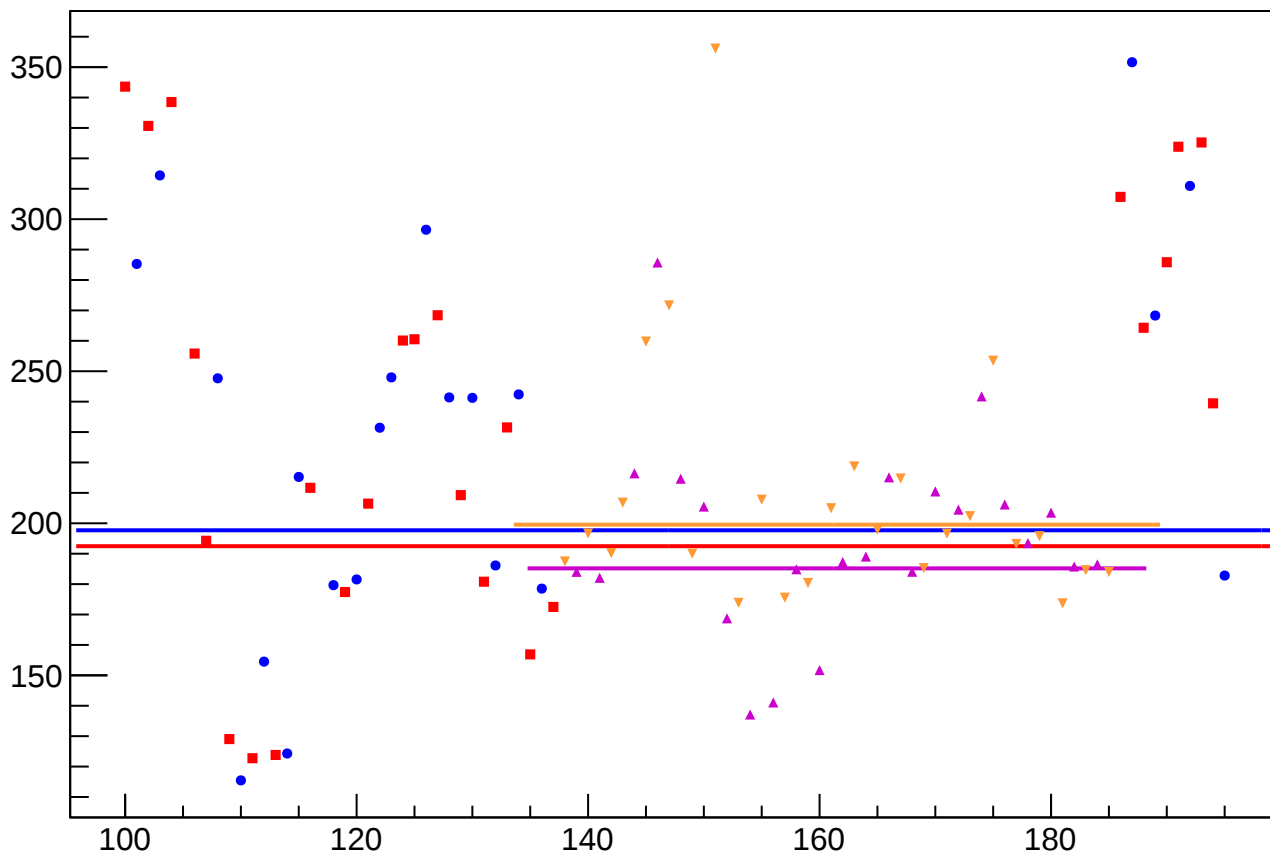
Right: -566.963+/-46.762 χ^2/NDF : 13271.7/45

In: -1013.644+/-38.177 χ^2/NDF : 16854.0/43

Out: 192.134+/-38.020 χ^2/NDF : 12883.4/49

All: -408.275+/-26.940 χ^2/NDF : 30238.2/93

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 197.701 ± 0.049 χ^2/NDF : 1372905.8/20

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 192.468 ± 0.045 χ^2/NDF : 2112538.3/24

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

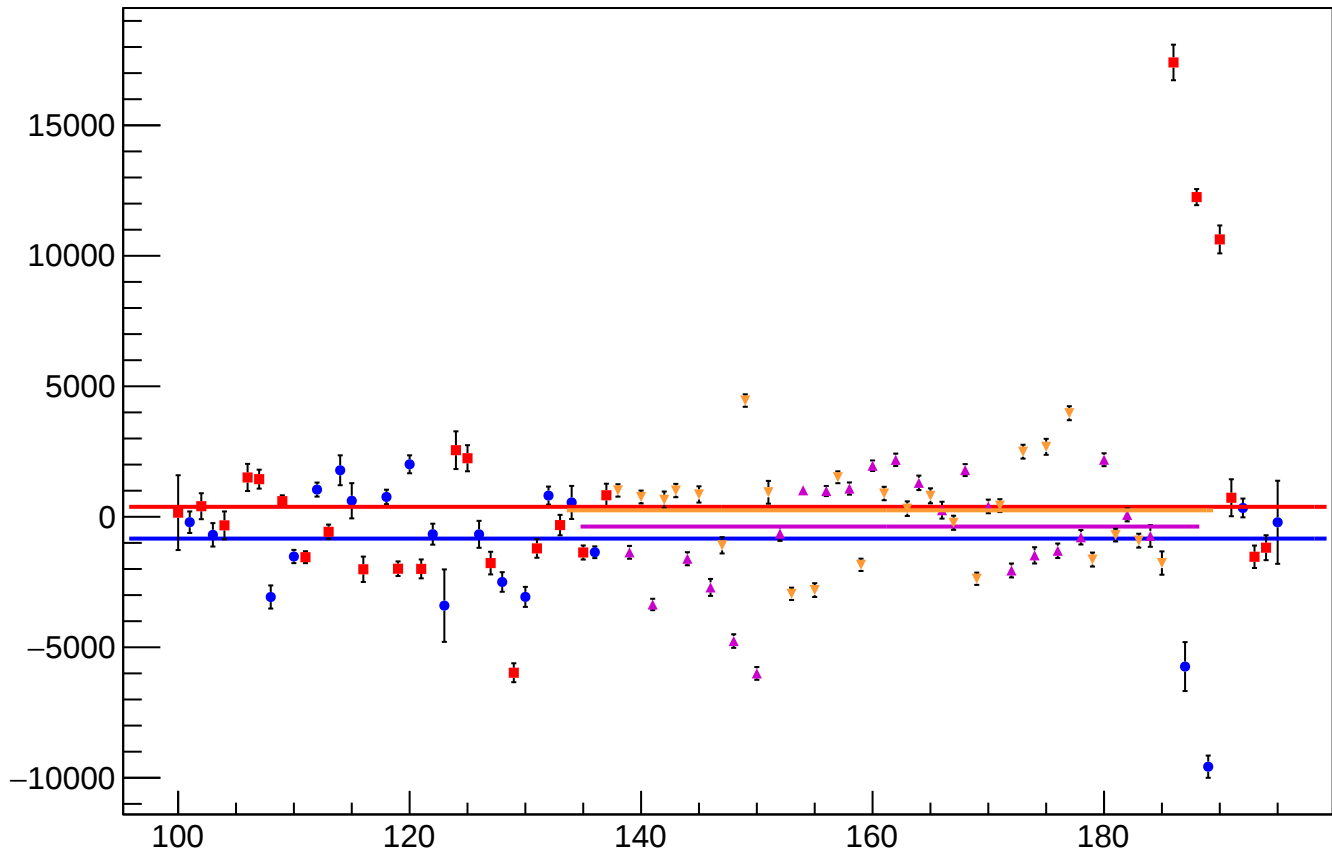
Right: 194.865 ± 0.033 χ^2/NDF : 3491661.2/45

In: 188.997 ± 0.027 χ^2/NDF : 2301359.6/43

Out: 197.011 ± 0.027 χ^2/NDF : 2857832.6/49

All: 193.021 ± 0.019 χ^2/NDF : 5203442.1/93

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.188 ± 84.038 $\chi^2/\text{NDF}: 759.6/20$

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 $\chi^2/\text{NDF}: 3225.5/47$

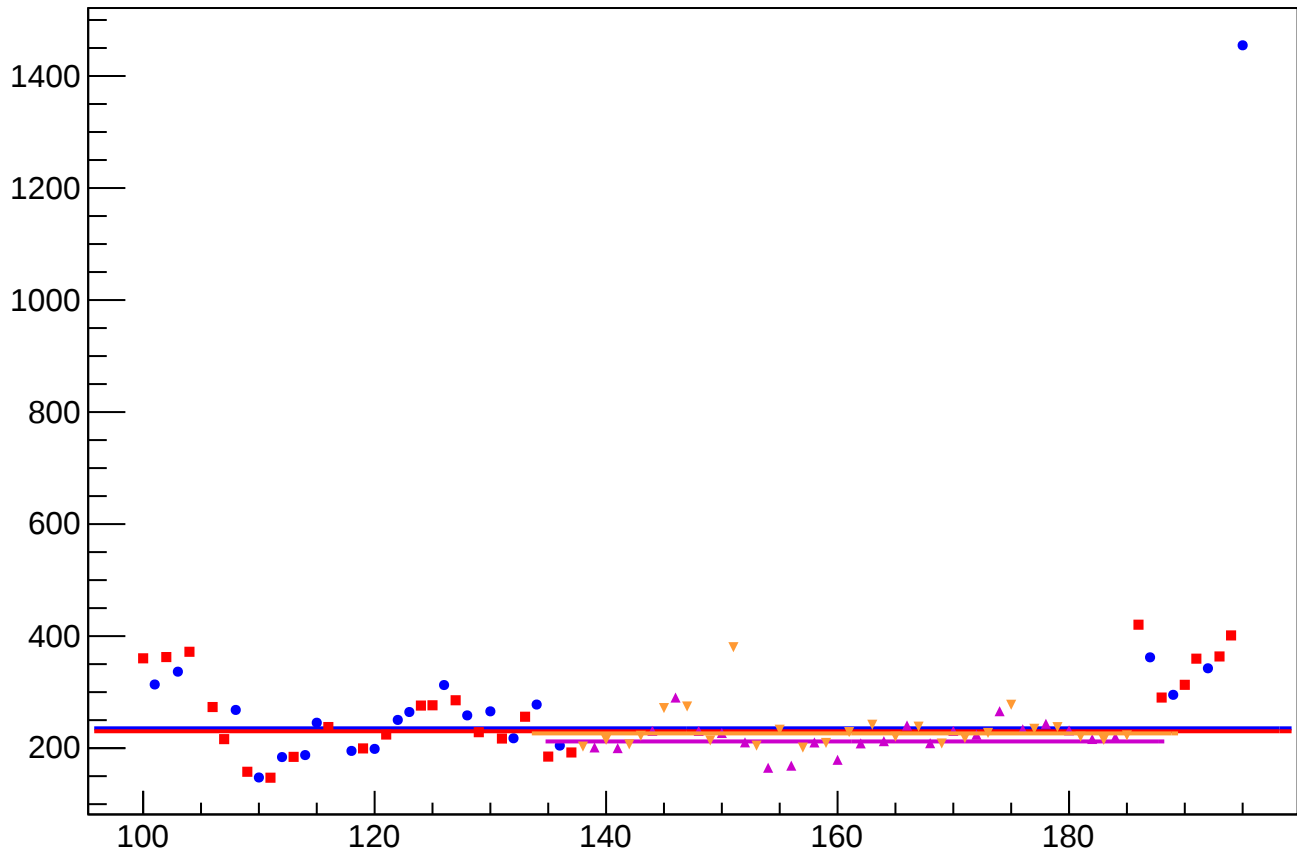
Right: -161.218 ± 56.129 $\chi^2/\text{NDF}: 4037.5/45$

In: -501.949 ± 44.250 $\chi^2/\text{NDF}: 2582.4/43$

Out: 292.669 ± 43.665 $\chi^2/\text{NDF}: 4519.0/49$

All: -99.360 ± 31.081 $\chi^2/\text{NDF}: 7264.7/93$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 235.377 $\pm$ 0.059 χ^2 /NDF: 2122064.6/20

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

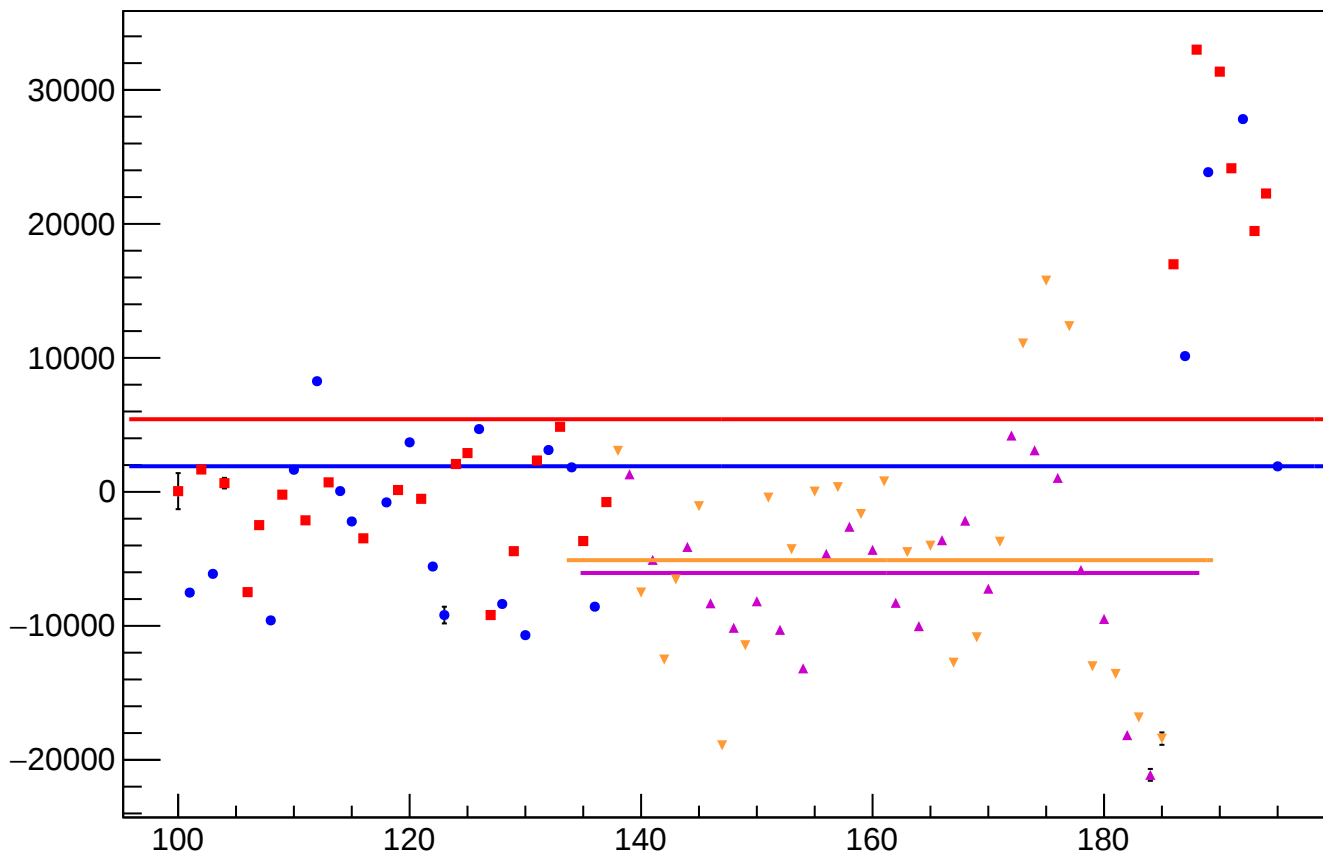
Right: 232.472 $\pm$ 0.040 χ^2 /NDF: 3928960.3/45

In: 218.460 $\pm$ 0.031 χ^2 /NDF:2818547.9/43

Out: 227.599 $\pm$ 0.031 χ^2 /NDF:2327019.7/49

All: 223.090 $\pm$ 0.022 χ^2 /NDF: 5188798.5/93

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1913.449+/-42.157 χ^2/NDF : 66286.8/20

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

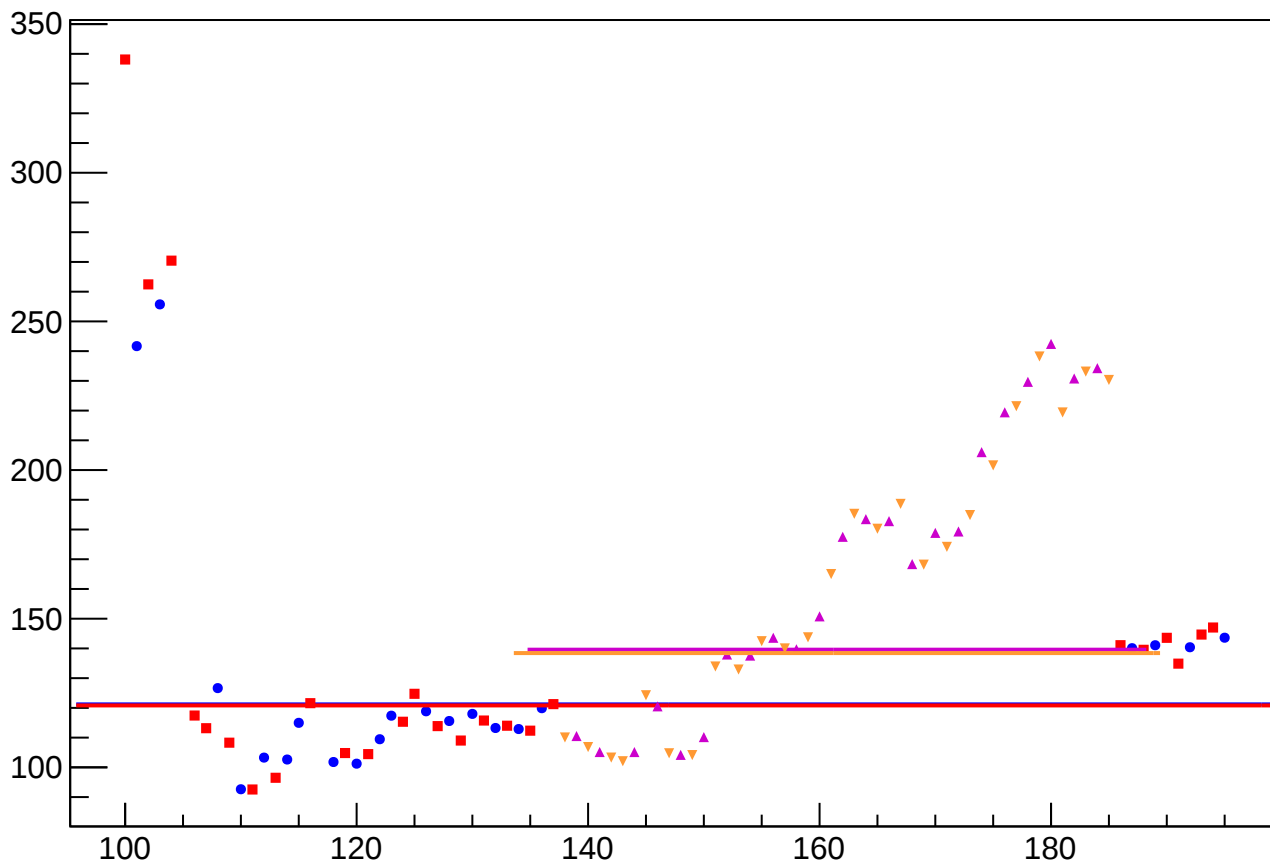
Right: 3811.964+/-28.559 χ^2/NDF : 169687.6/45

In: -2802.988+/-26.928 χ^2/NDF : 105020.2/43

Out: -575.620+/-25.452 χ^2/NDF : 195896.0/49

All: -1626.578+/-18.497 χ^2/NDF : 304529.8/9

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 121.176+/-0.030 χ^2/NDF : 868597.8/20

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

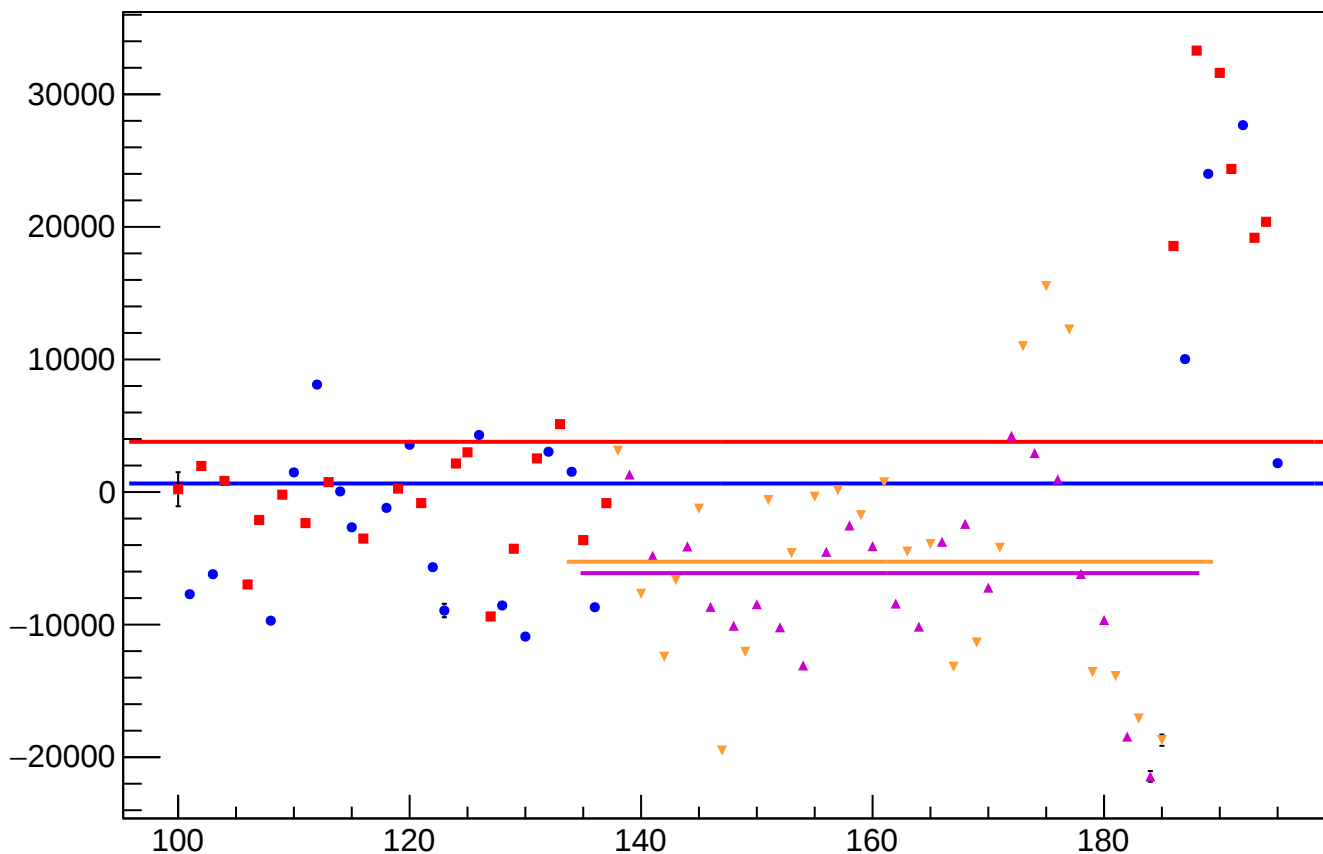
Right: 120.987+/-0.020 χ^2/NDF : 1881801.4/45

In: 132.070+/-0.019 χ^2/NDF :3507838.4/43

Out: 130.869+/-0.018 χ^2/NDF :3797158.2/49

All: 131.436+/-0.013 χ^2/NDF : 7307098.1/93

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 645.576 $\pm$ 36.770 χ^2/NDF : 70884.7/20

Left Out: -5255.652 $\pm$ 30.622 χ^2/NDF : 64324.6/24

Right Out: 3789.204 $\pm$ 34.196 χ^2/NDF : 106967.7/24

Left In: -6114.901 $\pm$ 32.126 χ^2/NDF : 21260.9/22

Left: -5664.697 $\pm$ 22.166 χ^2/NDF : 85960.3/47

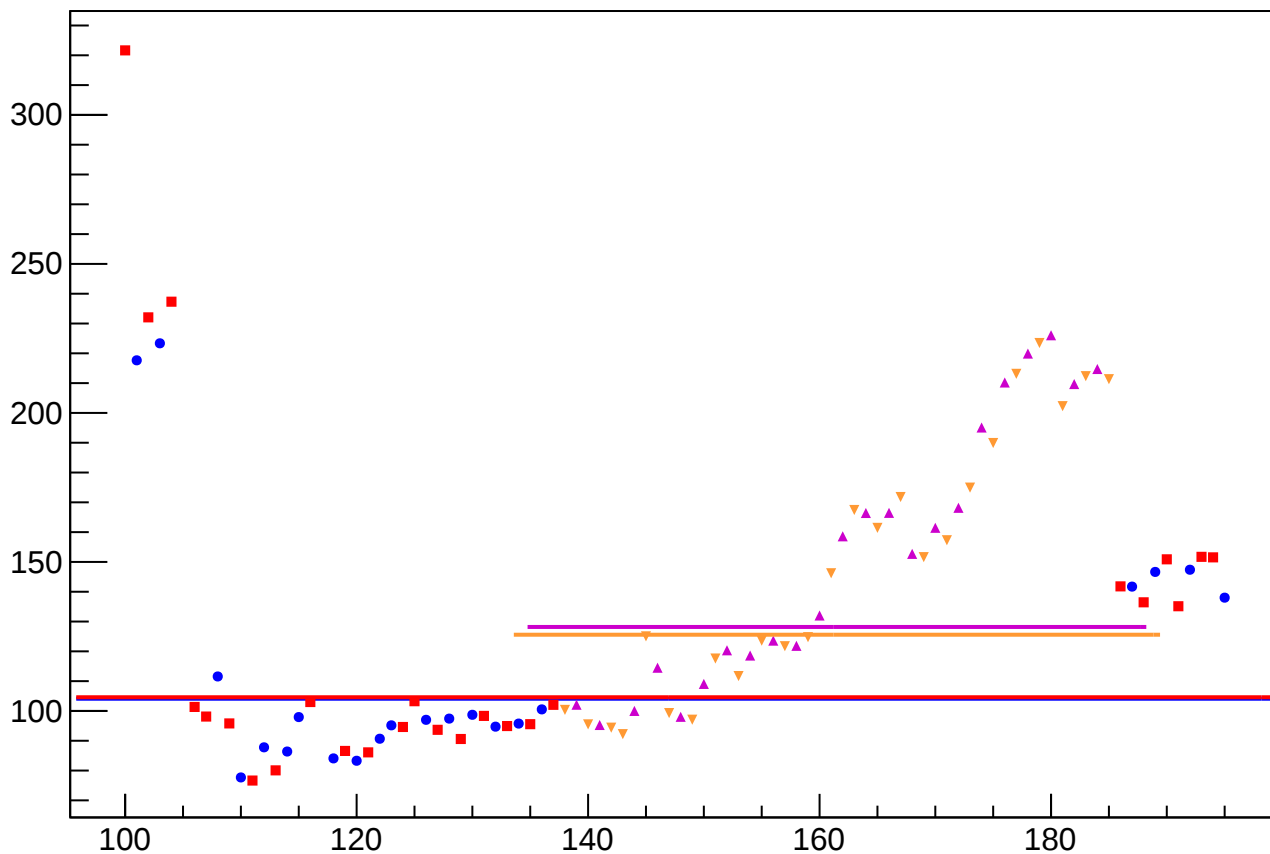
Right: 2331.285 $\pm$ 25.041 χ^2/NDF : 181771.7/45

In: -3188.382 $\pm$ 24.193 χ^2/NDF : 111315.7/43

Out: -1230.439 $\pm$ 22.812 χ^2/NDF : 210118.5/49

All: -2151.955 $\pm$ 16.597 χ^2/NDF : 324901.3/9

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 104.103+/-0.026 χ^2/NDF : 1239282.1/20

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 104.594+/-0.024 χ^2/NDF : 1522713.1/24

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

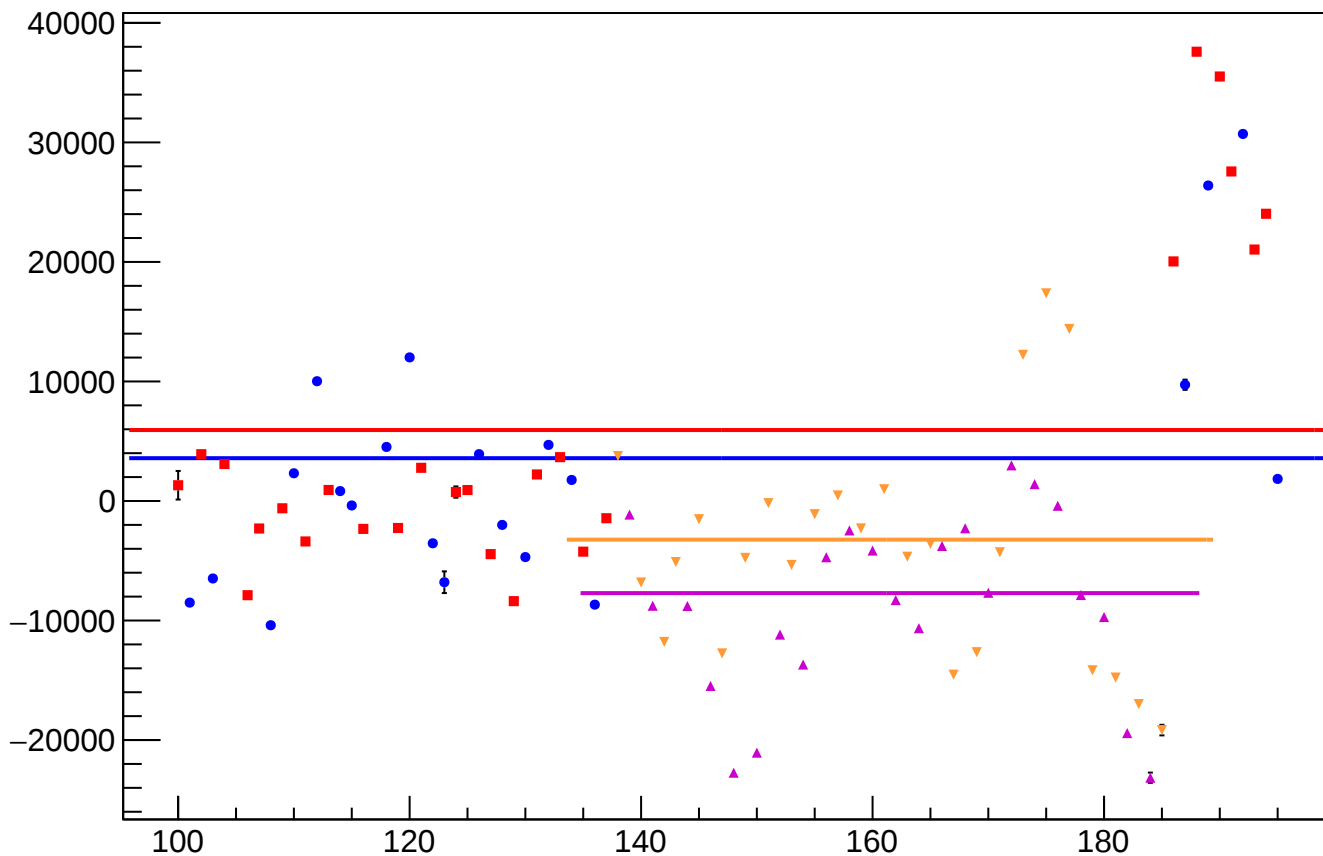
Right: 104.367+/-0.018 χ^2/NDF : 2762186.4/45

In: 117.760+/-0.017 χ^2/NDF : 4058691.7/43

Out: 116.239+/-0.016 χ^2/NDF : 4536377.4/49

All: 116.955+/-0.012 χ^2/NDF : 8599250.2/93

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 3581.167 ± 49.153 $\chi^2/\text{NDF}: 52420.5/20$

Left Out: -3234.922 ± 40.583 $\chi^2/\text{NDF}: 36739.9/24$

Right Out: 5935.960 ± 45.462 $\chi^2/\text{NDF}: 88768.5/24$

Left In: -7707.068 ± 42.990 $\chi^2/\text{NDF}: 21268.3/22$

Left: -5342.284 ± 29.511 $\chi^2/\text{NDF}: 63730.6/47$

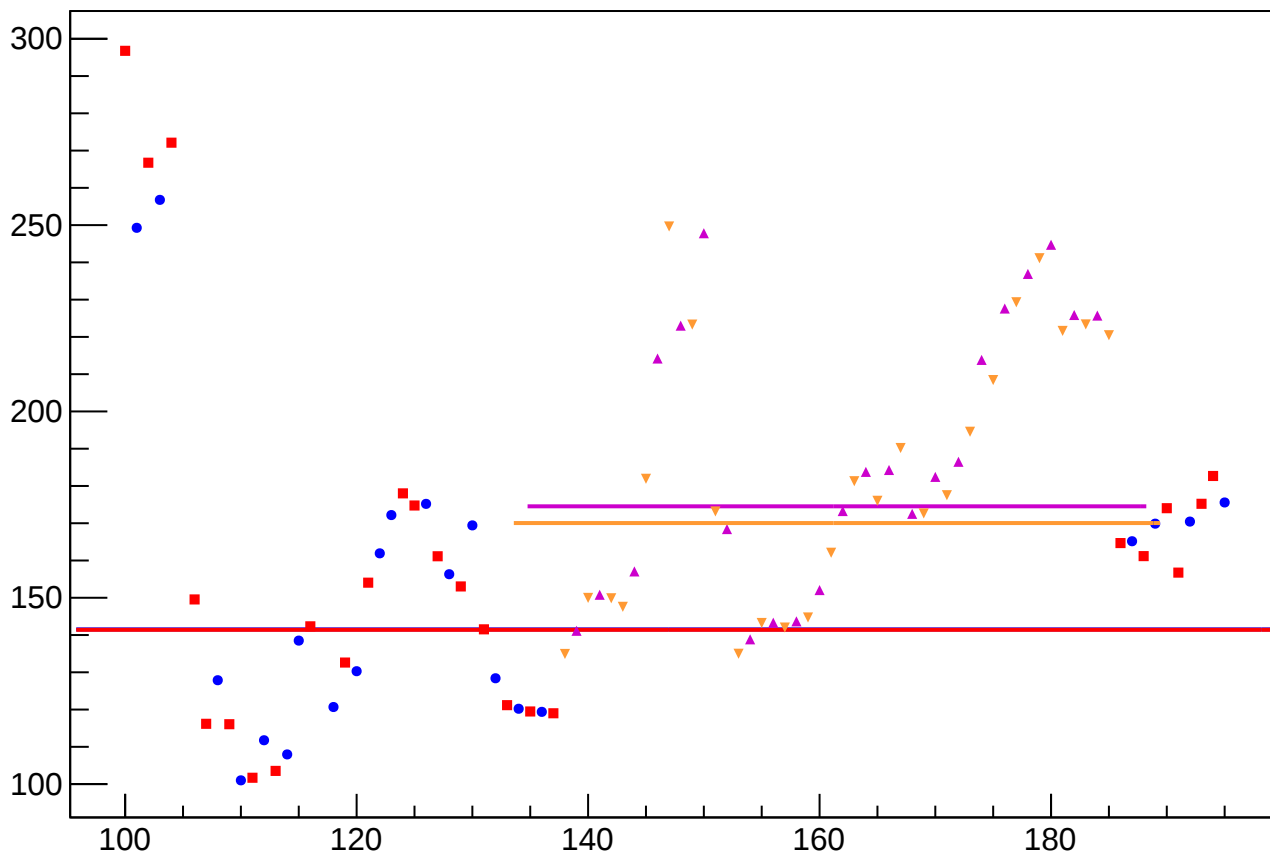
Right: 4850.274 ± 33.375 $\chi^2/\text{NDF}: 142426.0/45$

In: -2814.603 ± 32.359 $\chi^2/\text{NDF}: 103571.6/43$

Out: 832.094 ± 30.275 $\chi^2/\text{NDF}: 148155.2/49$

All: -870.035 ± 22.108 $\chi^2/\text{NDF}: 258498.9/93$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 141.513 ± 0.035 $\chi^2/\text{NDF}: 969604.5/20$

Left Out: 170.050 ± 0.029 $\chi^2/\text{NDF}: 1240866.9/24$

Right Out: 141.401 ± 0.032 $\chi^2/\text{NDF}: 1138776.4/24$

Left In: 174.539 ± 0.030 $\chi^2/\text{NDF}: 1210071.2/22$

Left: 172.165 ± 0.021 $\chi^2/\text{NDF}: 2462472.2/47$

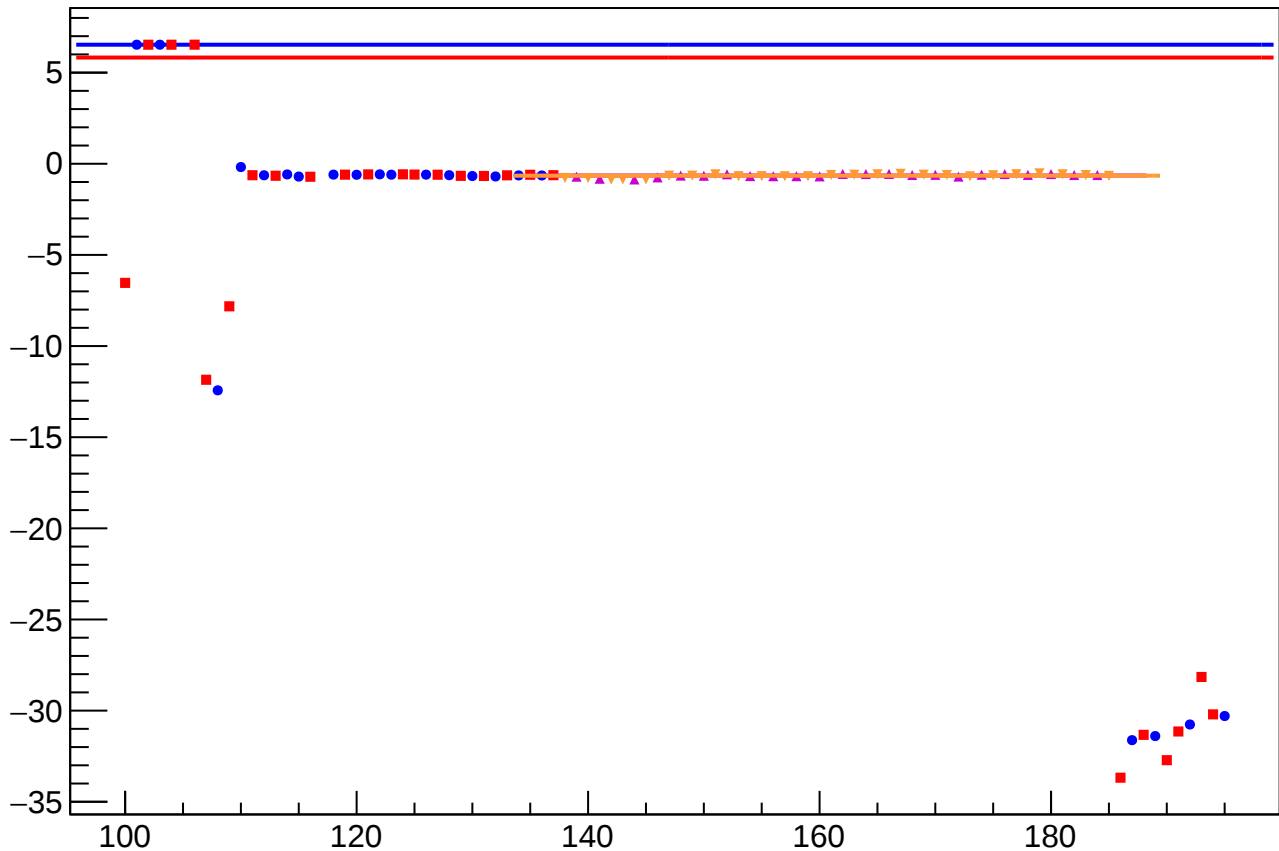
Right: 141.453 ± 0.024 $\chi^2/\text{NDF}: 2108386.5/45$

In: 160.225 ± 0.023 $\chi^2/\text{NDF}: 2691253.1/43$

Out: 157.345 ± 0.021 $\chi^2/\text{NDF}: 2821637.0/49$

All: 158.689 ± 0.016 $\chi^2/\text{NDF}: 5521340.2/93$

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127732856400.5/20

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947603663410.5/24

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

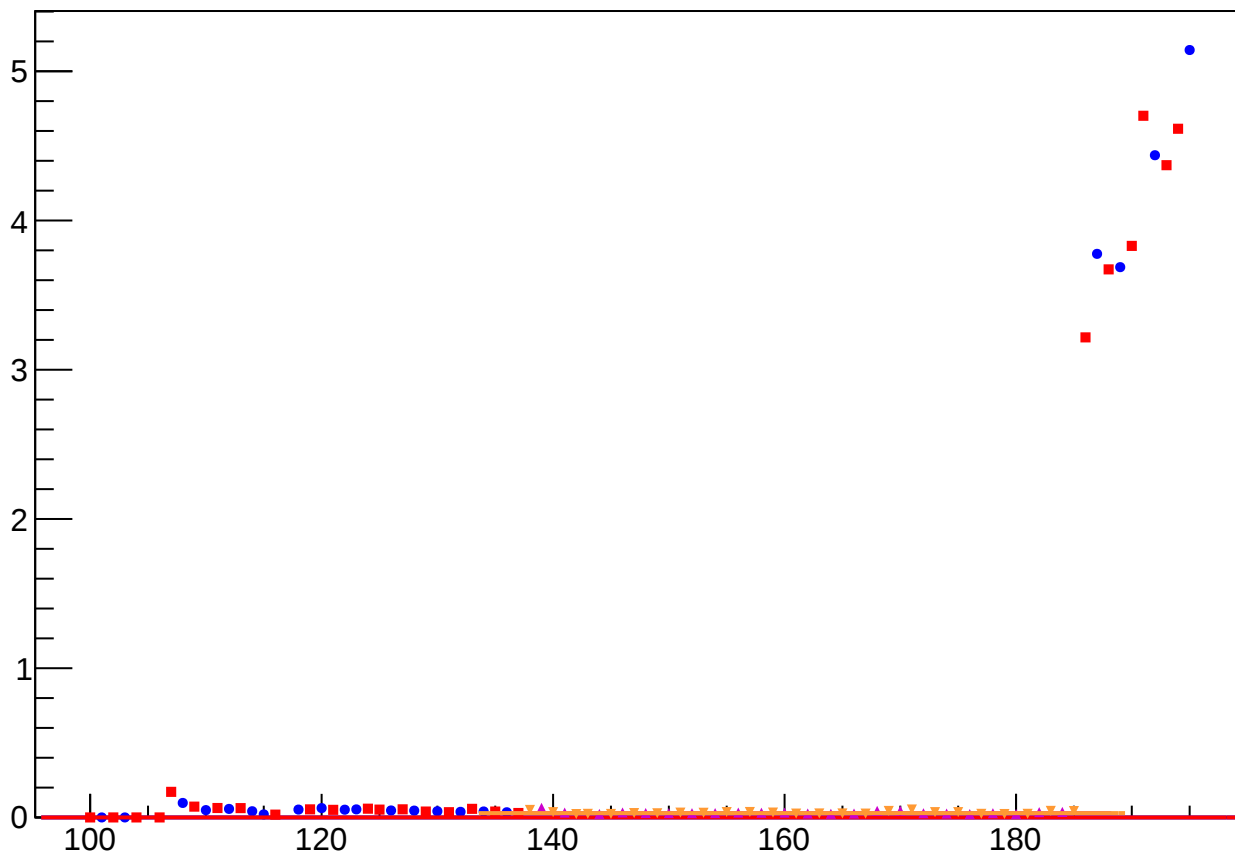
Right: 6.155+/-0.000 χ^2/NDF : 776078505600630.6/47

In: 6.530+/-0.000 χ^2/NDF : 953080260605.4/43

Out: 5.826+/-0.000 χ^2/NDF : 756656632322207.8/43

All: 6.153+/-0.000 χ^2/NDF : 7776018753805/90

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13616493.2/20

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

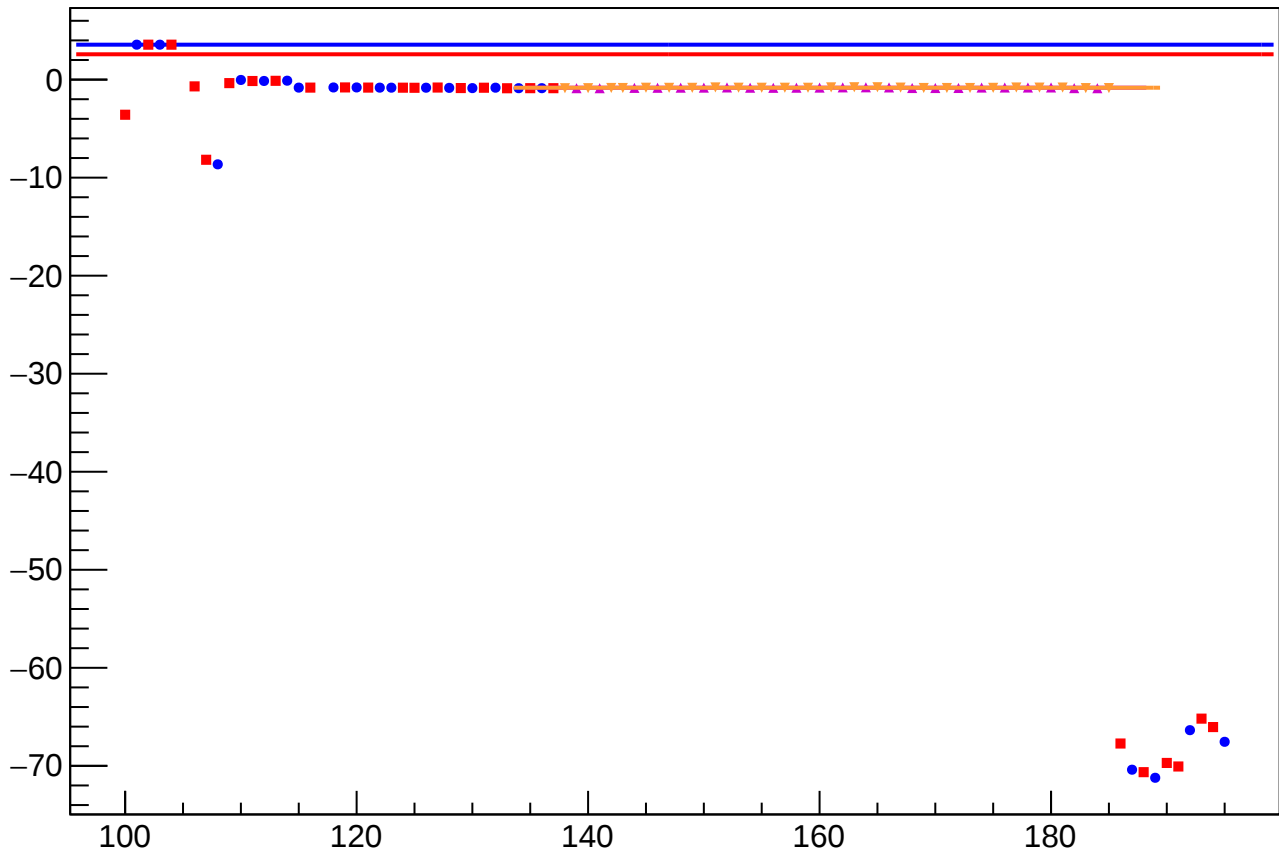
Right: 0.000+/-0.000 χ^2/NDF : 29657911.7/45

In: 0.000+/-0.000 χ^2/NDF :41578186.3/43

Out: 0.000+/-0.000 χ^2/NDF :45916852.6/49

All: 0.000+/-0.000 χ^2/NDF : 87495453.9/93

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 492726361395.0/20

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253515296212974.8/24

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

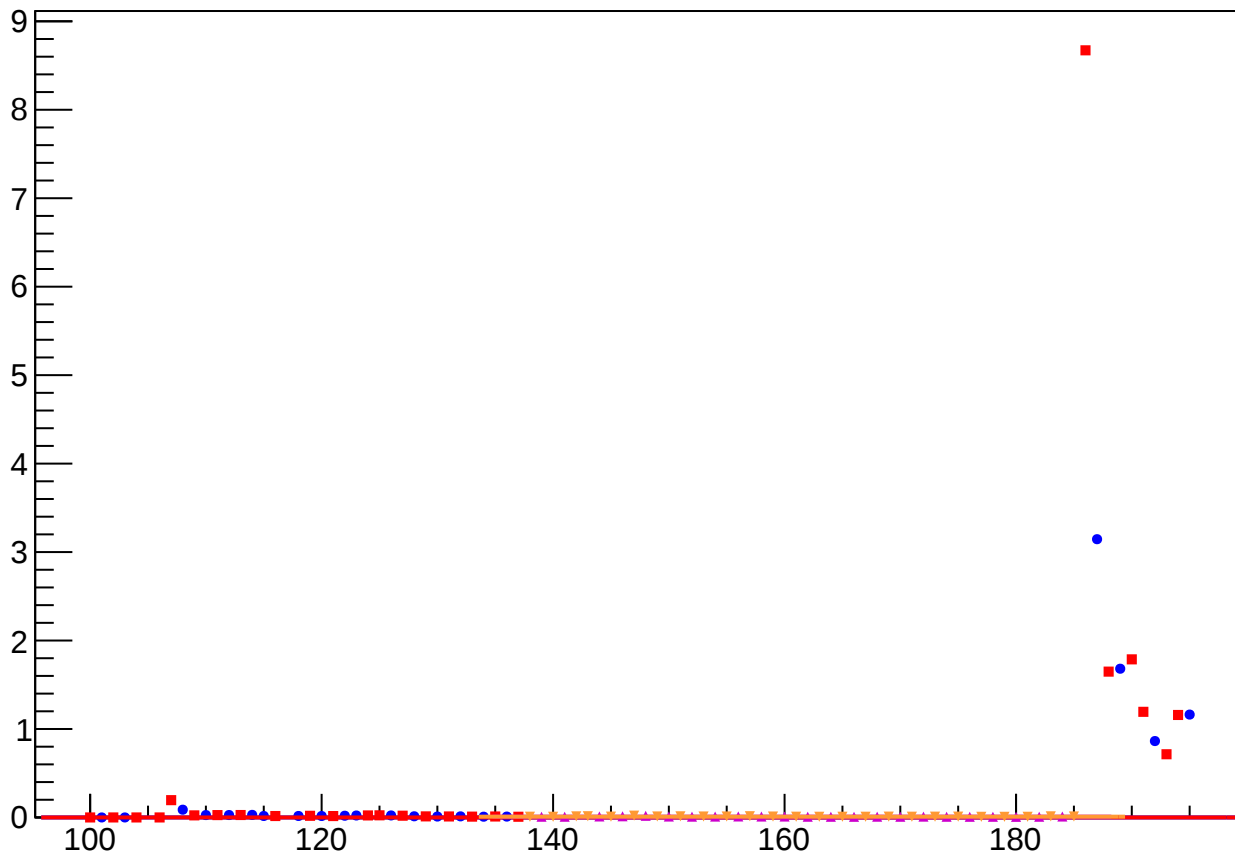
Right: 3.040+/-0.000 χ^2/NDF : 1382279238577686.1

In: 3.560+/-0.000 χ^2/NDF : 4138479066158.1/43

Out: 2.581+/-0.000 χ^2/NDF : 1255737628109340.5

All: 3.038+/-0.000 χ^2/NDF : 13879657127823

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13592498.4/20

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

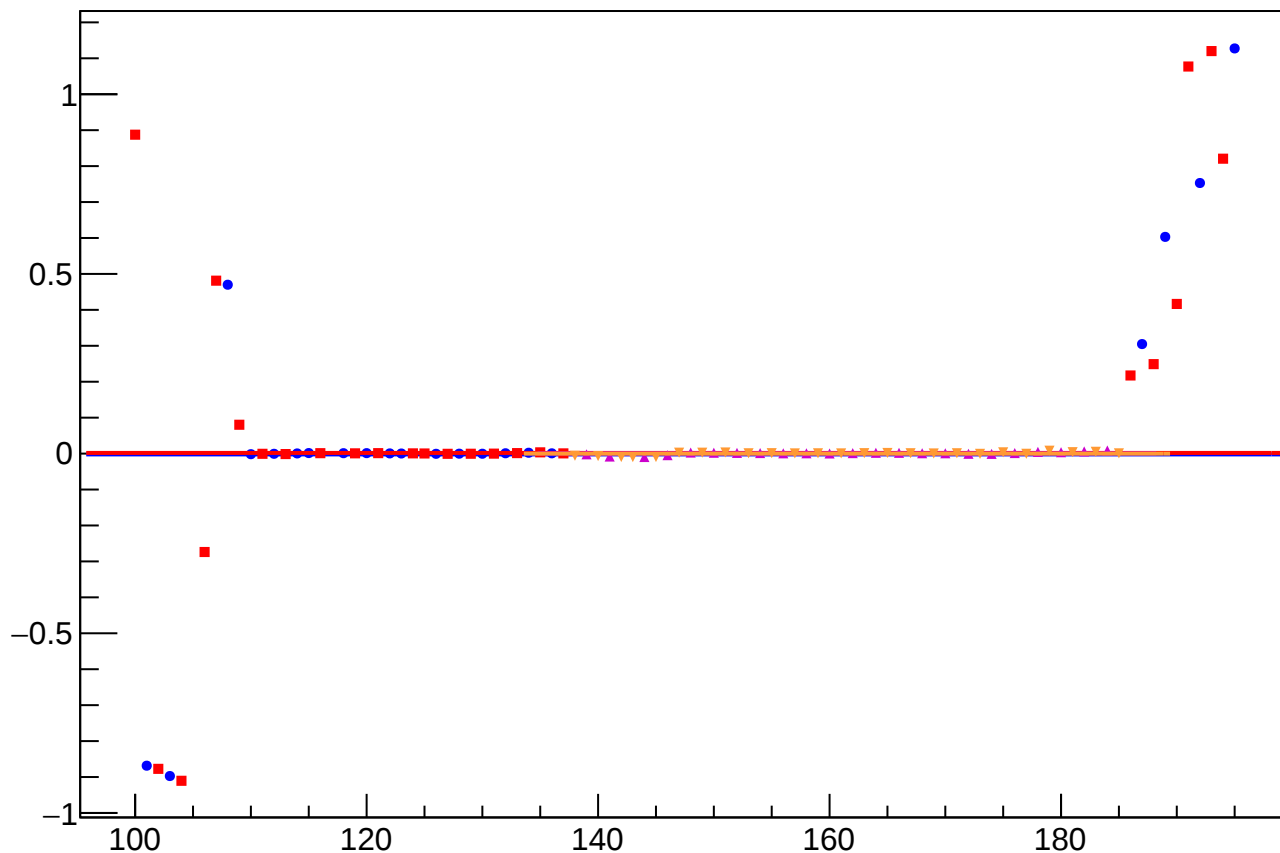
Right: 0.000+/-0.000 χ^2/NDF : 29292769.8/45

In: 0.000+/-0.000 χ^2/NDF :43128610.5/43

Out: 0.000+/-0.000 χ^2/NDF :47118653.0/49

All: 0.000+/-0.000 χ^2/NDF : 90248016.7/93

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796033321.8/20

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right: -0.000+/-0.000 χ^2/NDF : 12851819060.5/45

Right Out: 0.002+/-0.000

χ^2/NDF : 3042017777.9/24

In: -0.000+/-0.000 χ^2/NDF : 9908489686.0/43

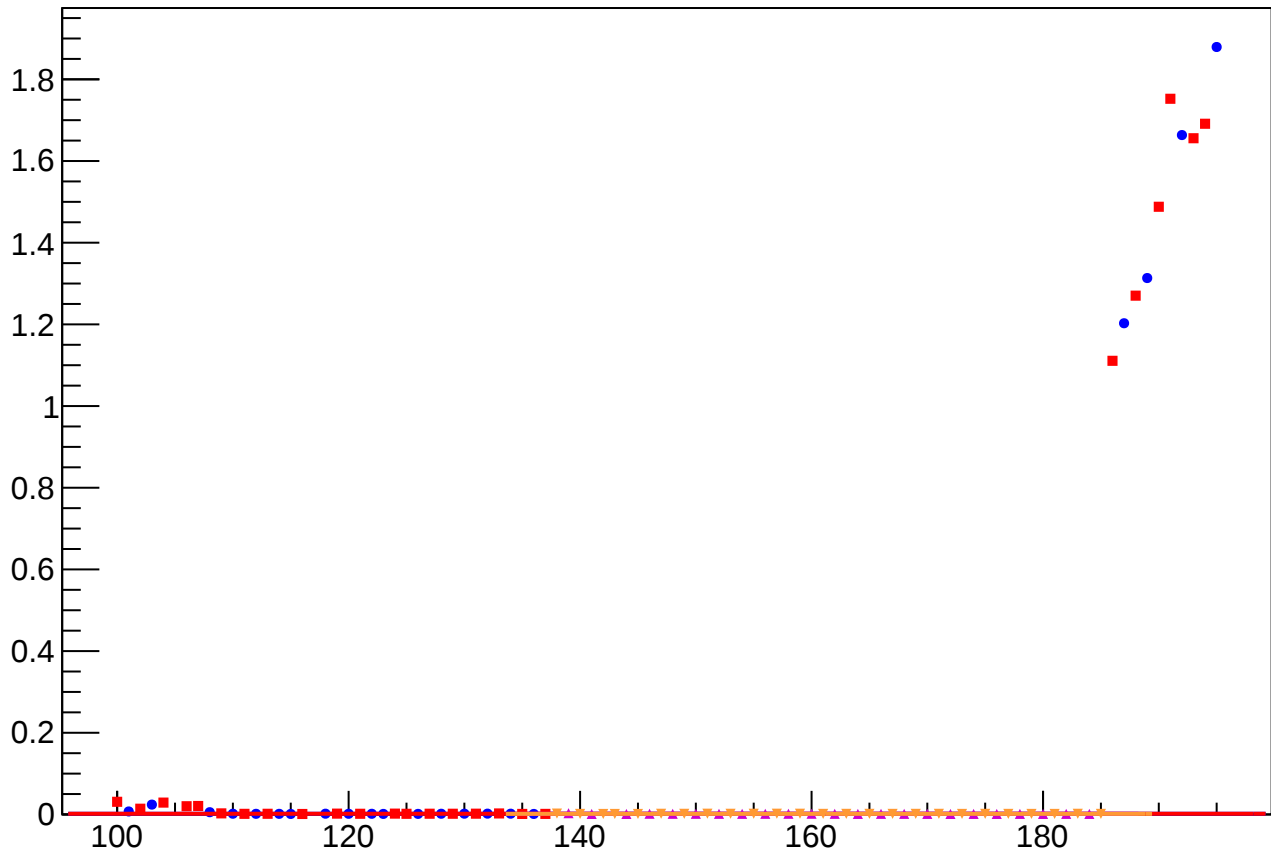
Out: 0.000+/-0.000 χ^2/NDF : 3198229640.9/49

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

All: 0.000+/-0.000 χ^2/NDF : 13107056326.5/99

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 6489697.2/20

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

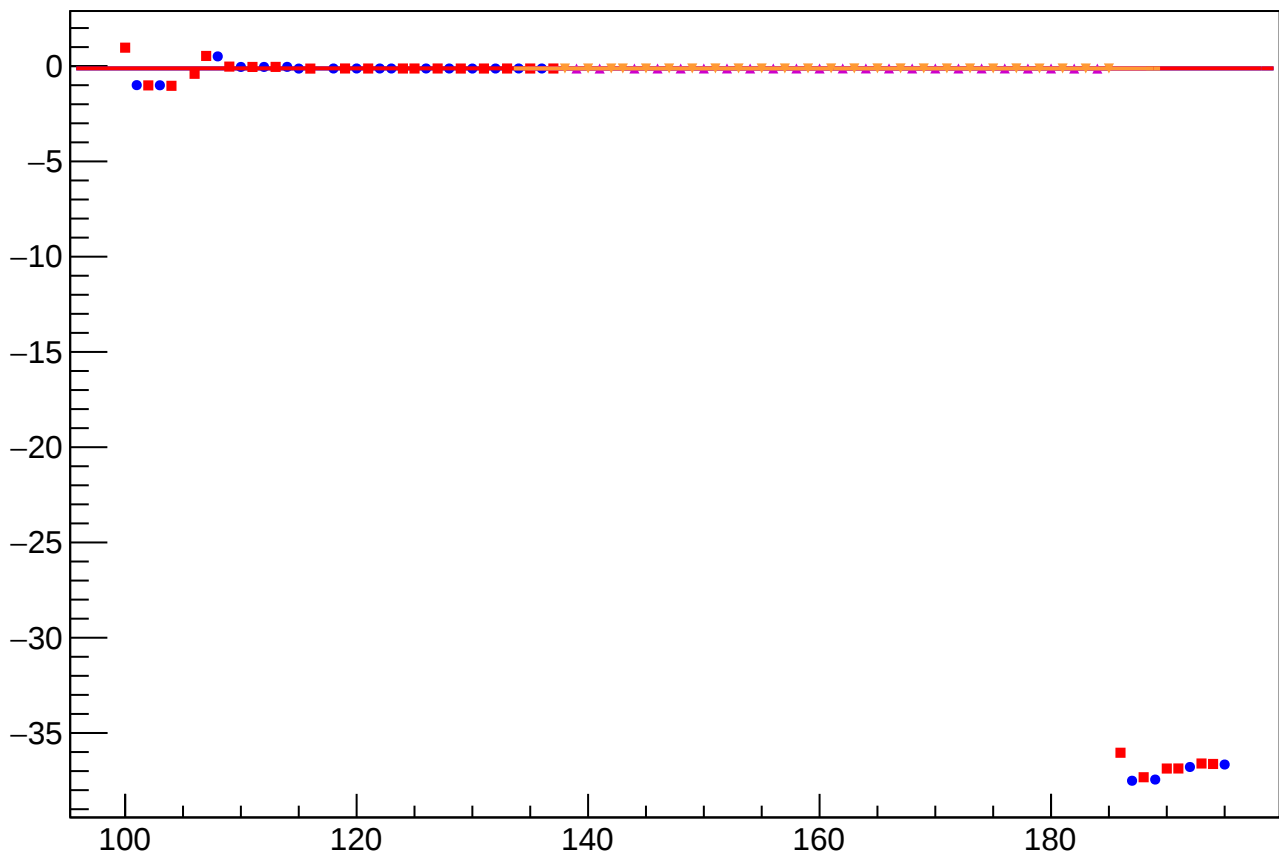
Right: 0.002+/-0.000 χ^2/NDF : 16195374.1/45

In: 0.002+/-0.000 χ^2/NDF :7166260.2/43

Out: 0.002+/-0.000 χ^2/NDF :10374150.0/49

All: 0.002+/-0.000 χ^2/NDF : 17541312.7/93

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 21909167024.6/20

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 27230799460.3/24

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

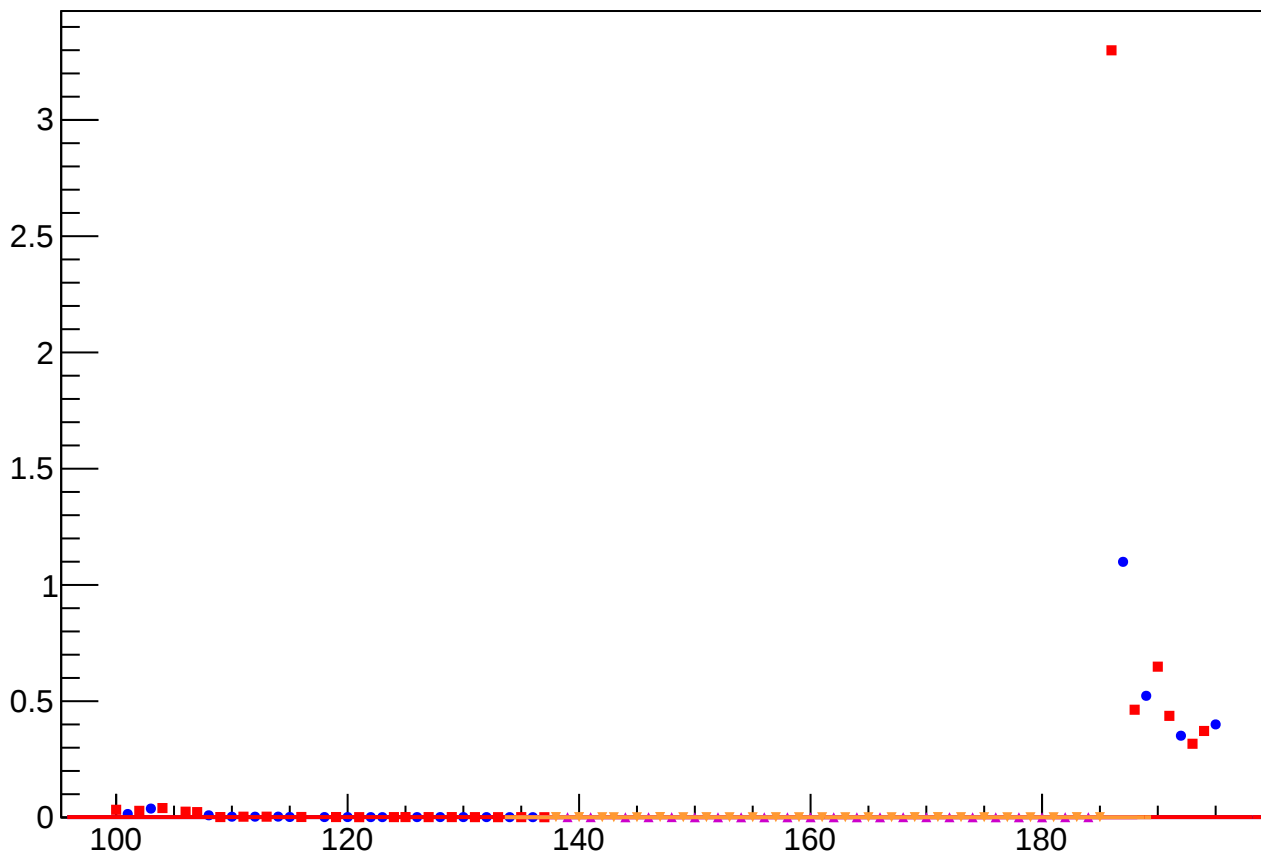
Right: -0.118+/-0.000 χ^2/NDF : 49162136839.0/45

In: -0.121+/-0.000 χ^2/NDF : 21961451799.8/43

Out: -0.121+/-0.000 χ^2/NDF : 27337436559.2/49

All: -0.121+/-0.000 χ^2/NDF : 49299795956.9/97

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 7254125.7/20

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

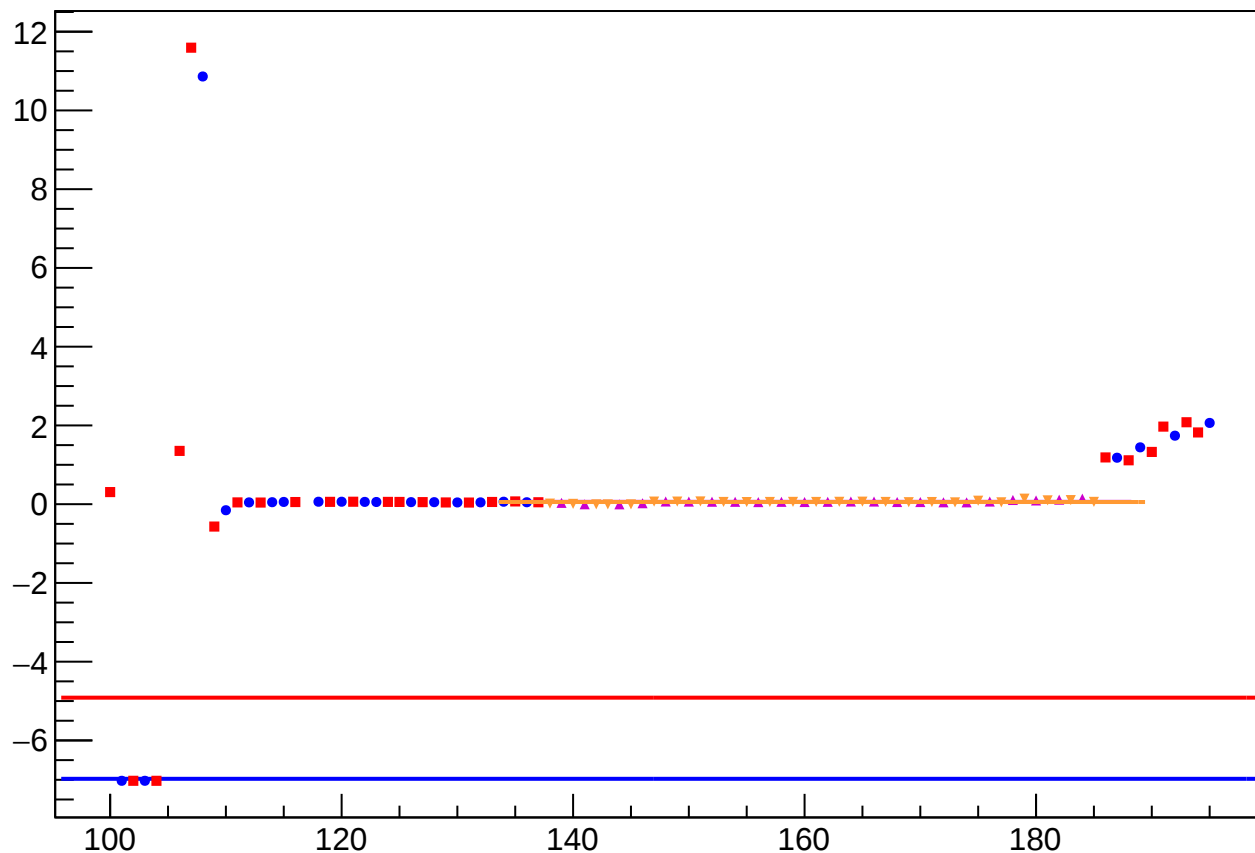
Right: 0.002+/-0.000 χ^2/NDF : 17181746.0/45

In: 0.001+/-0.000 χ^2/NDF : 9375948.6/43

Out: 0.001+/-0.000 χ^2/NDF : 12448997.2/49

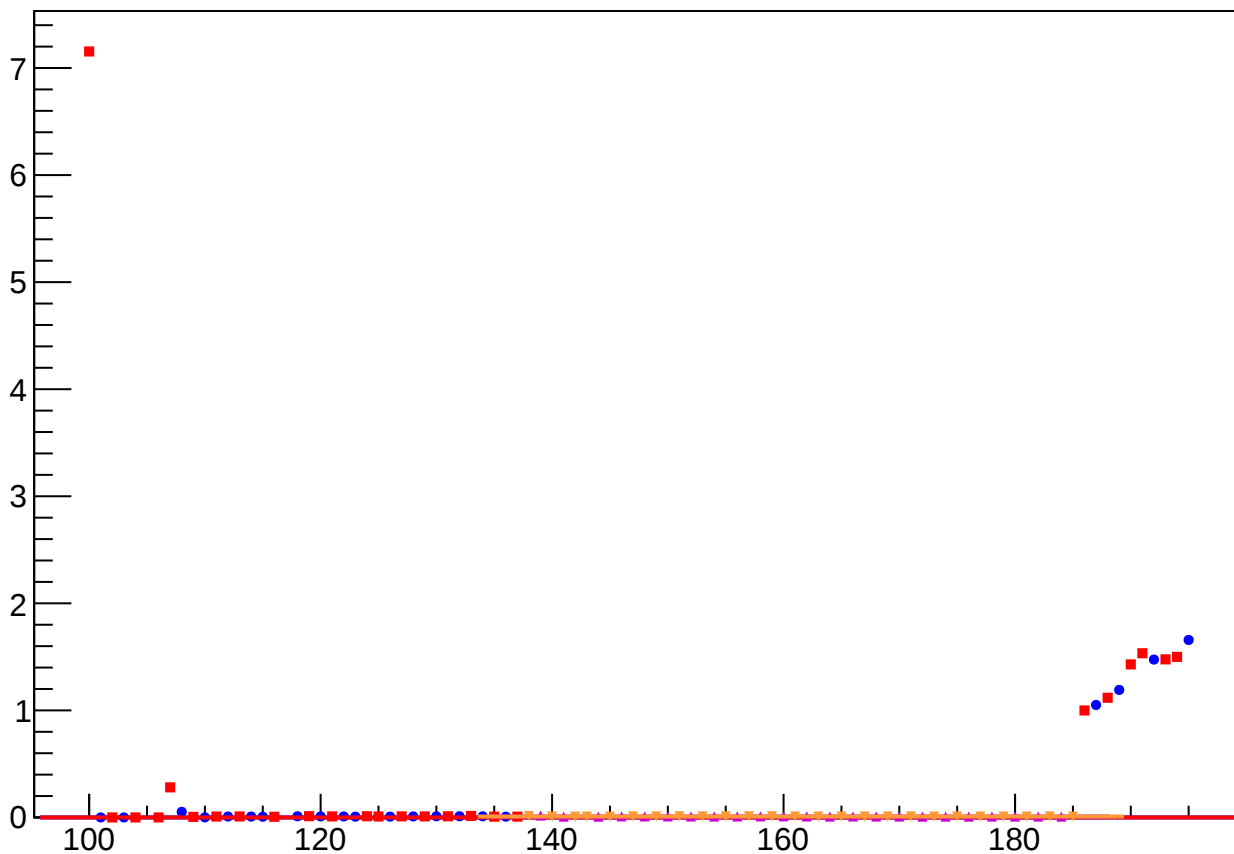
All: 0.001+/-0.000 χ^2/NDF : 21827471.7/93

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797444216657.8/20$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333442236831.8$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352738707885.4/24$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17552963689172.9/43$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165302559856.2/24$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435287347278$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12930013.6/20

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

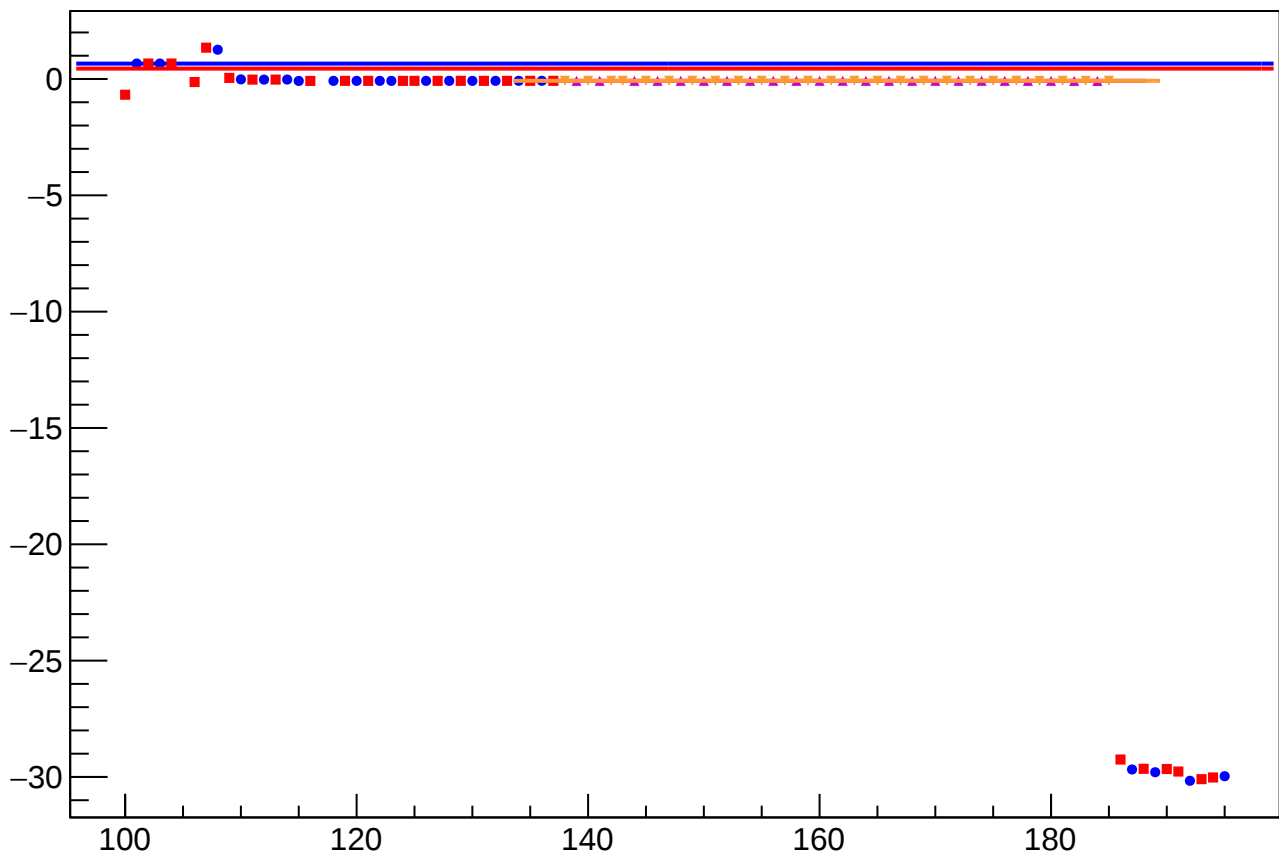
Right: 0.000+/-0.000 χ^2/NDF : 28399758.8/45

In: 0.000+/-0.000 χ^2/NDF : 40348600.3/43

Out: 0.000+/-0.000 χ^2/NDF : 44414088.9/49

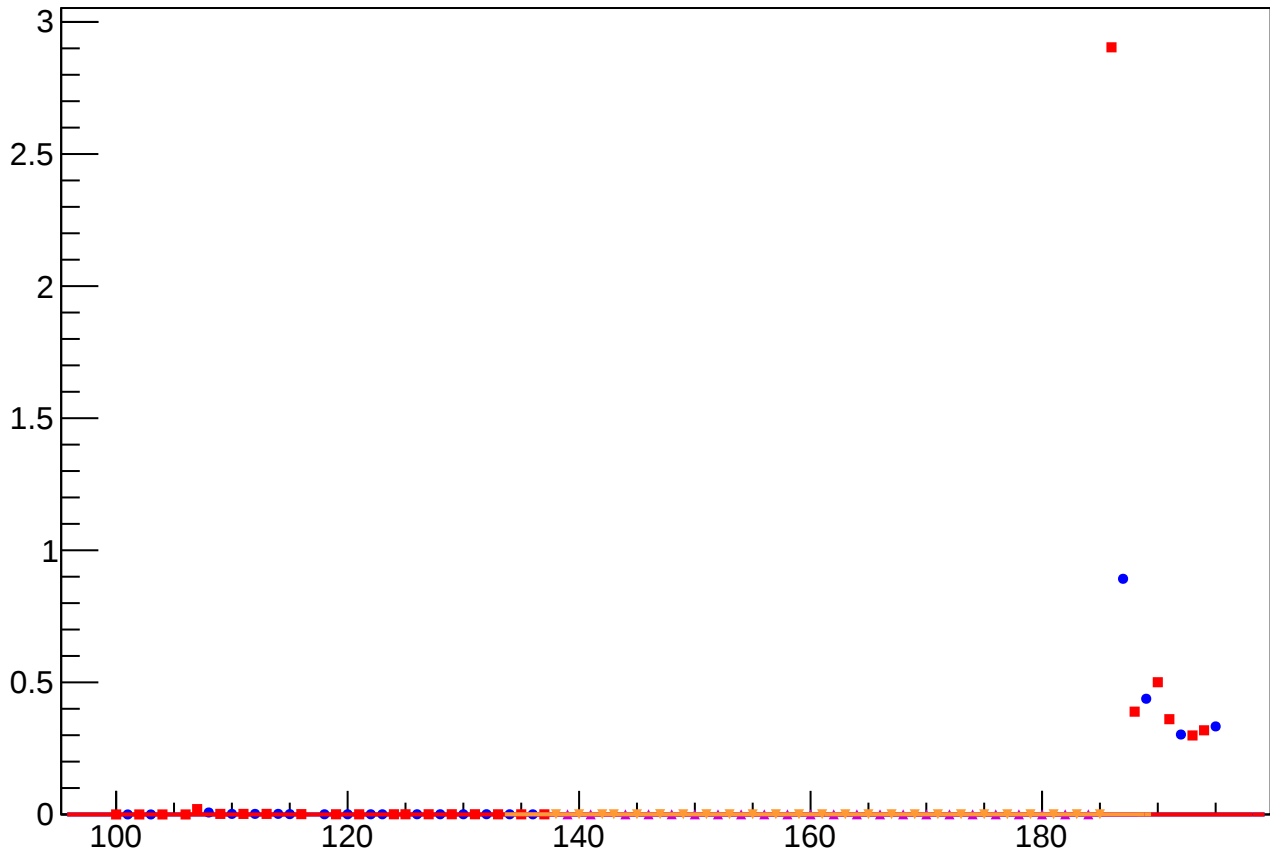
All: 0.000+/-0.000 χ^2/NDF : 84763150.8/93

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5676937359104.0/20	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 : 474041453261598.5
Right Out: 0.446+/-0.000	χ^2/NDF : 405451206365016.3/24	In: 0.647+/-0.000	χ^2/NDF : 33717655201838.8/43
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 : 51588590271186

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14503345.1/20

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

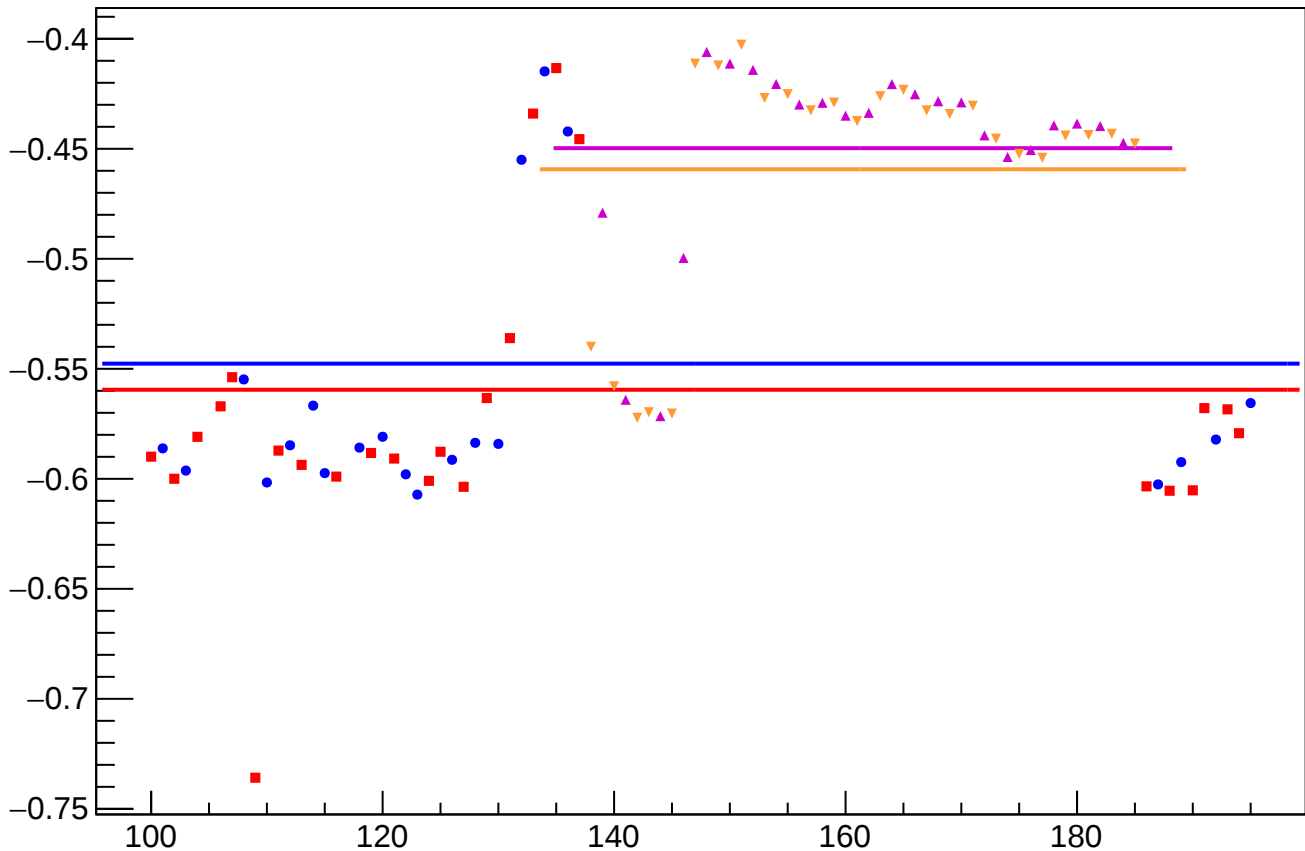
Right: 0.000+/-0.000 χ^2/NDF : 30538973.7/45

In: 0.000+/-0.000 χ^2/NDF :45236203.8/43

Out: 0.000+/-0.000 χ^2/NDF :48657288.6/49

All: 0.000+/-0.000 χ^2/NDF : 93893827.4/93

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 47201593.4/20

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65598140.6/24

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

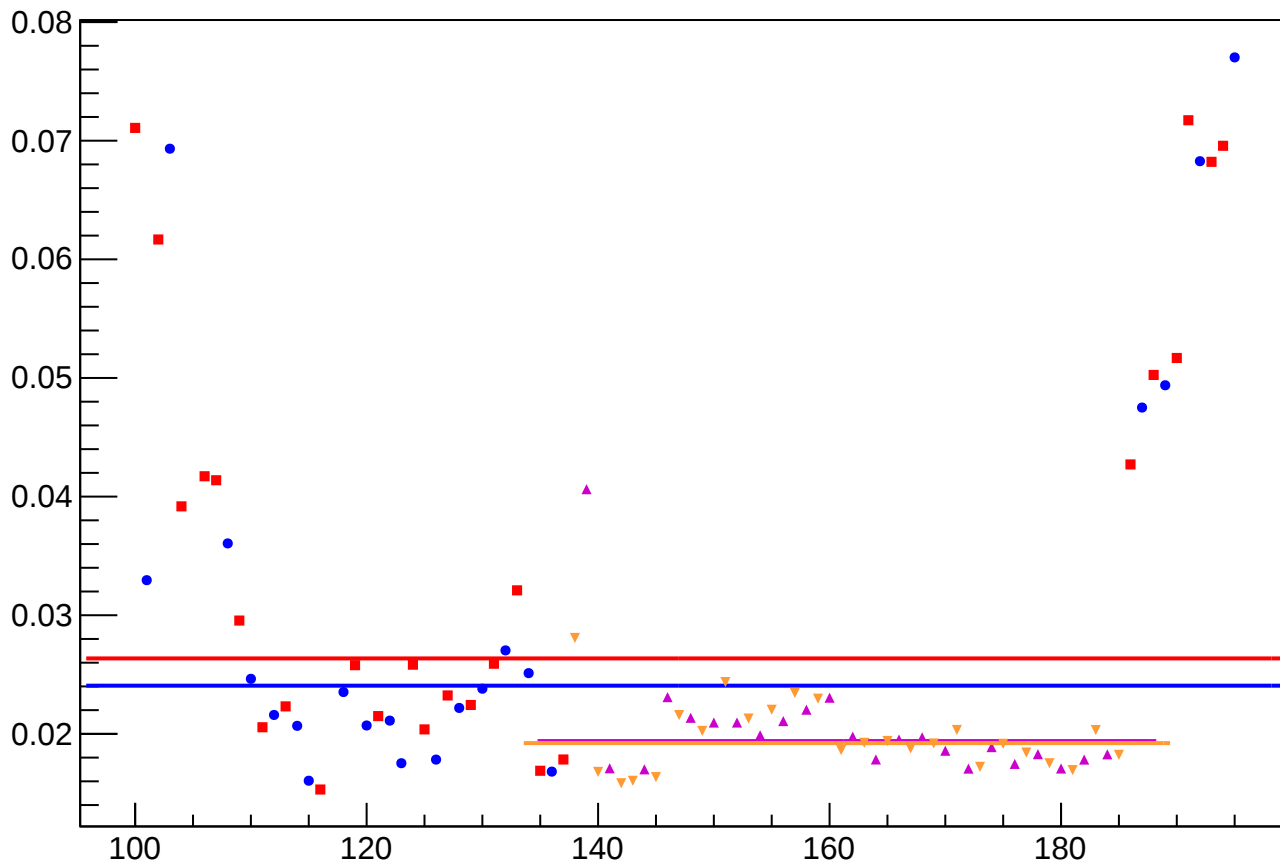
Right: -0.554+/-0.000 χ^2/NDF : 113572005.8/45

In: -0.472+/-0.000 χ^2/NDF : 205297494.4/43

Out: -0.481+/-0.000 χ^2/NDF : 265003748.7/49

All: -0.477+/-0.000 χ^2/NDF : 472025204.7/93

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 2858516.1/20

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501711.6/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 3375005.3/24

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:626443.5/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1129330.7/47

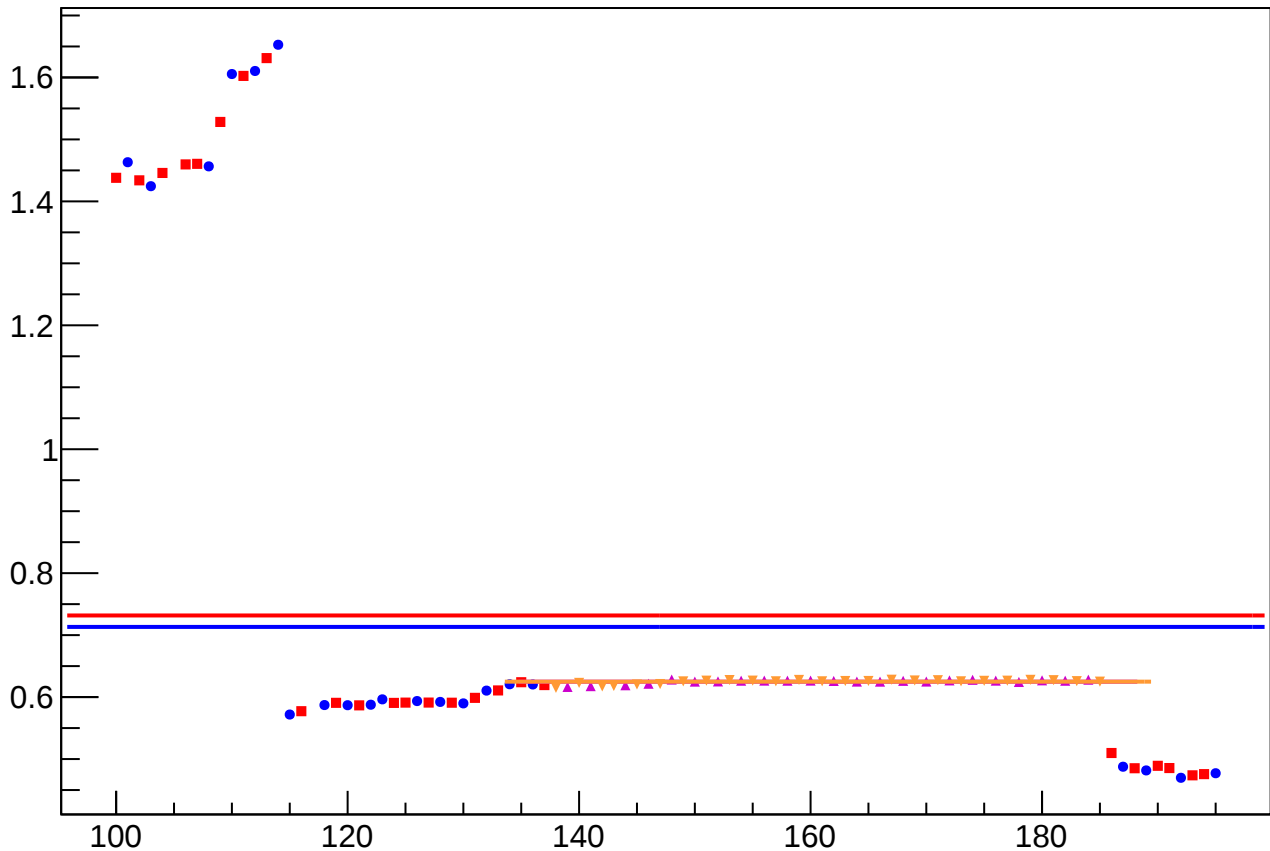
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 6291465.2/45

In: 0.020 $\pm$ 0.000 χ^2 /NDF:3857569.9/43

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:4748135.6/49

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 8609288.3/93

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.713+/-0.000 χ^2/NDF : 4250925241.0/20

Left Out: 0.625+/-0.000 χ^2/NDF :1445169.1/24

Right Out: 0.732+/-0.000 χ^2/NDF : 5166037211.4/24

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

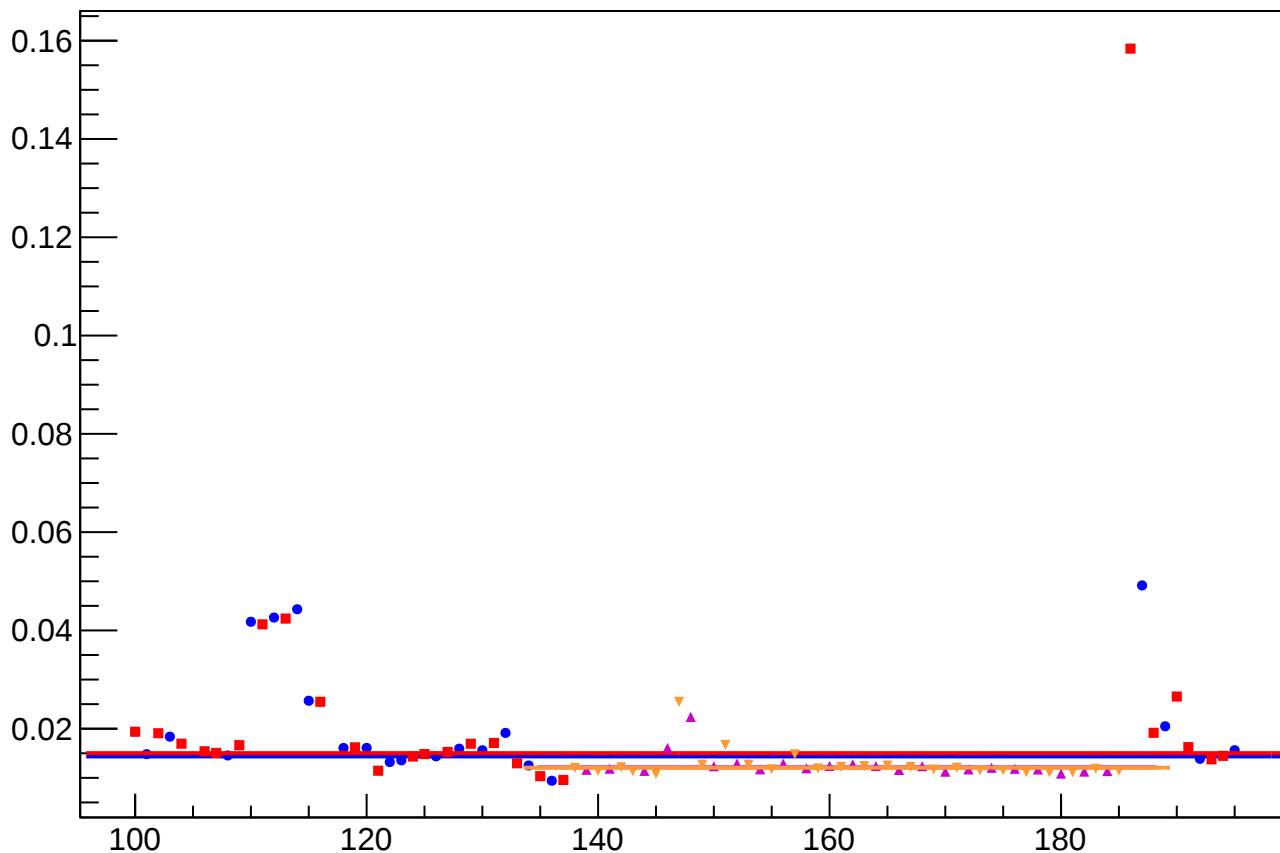
Right: 0.723+/-0.000 χ^2/NDF : 9423515940.9/45

In: 0.647+/-0.000 χ^2/NDF :4473335325.0/43

Out: 0.651+/-0.000 χ^2/NDF :5505052286.3/49

All: 0.649+/-0.000 χ^2/NDF : 9979704705.9/93

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1634571.0/20

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2057483.2/24

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

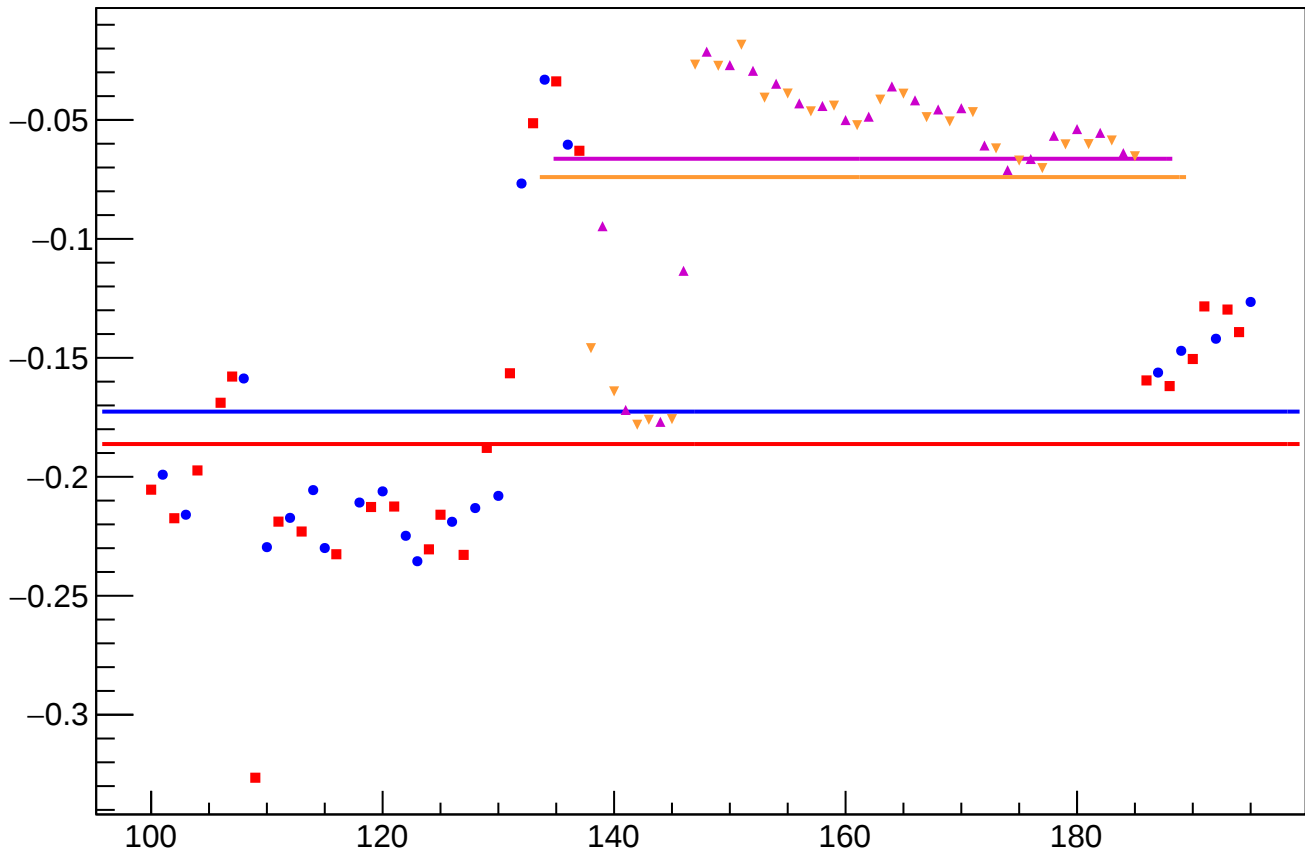
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3708998.6/45

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2403726.6/43

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3232034.1/49

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5637358.6/93

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.173+/-0.000 χ^2/NDF : 67422302.5/20

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

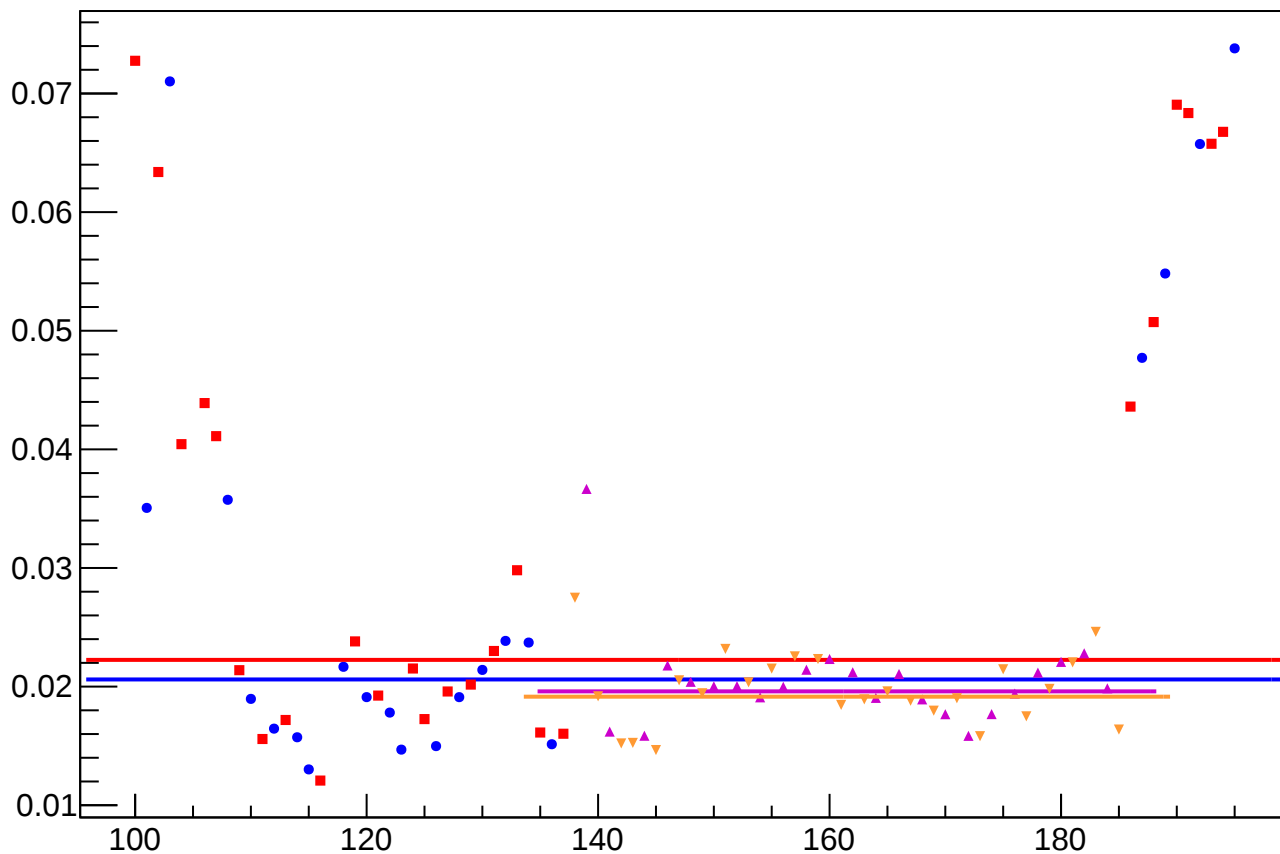
Right: -0.179+/-0.000 χ^2/NDF : 152387976.0/45

In: -0.096+/-0.000 χ^2/NDF :261894542.9/43

Out: -0.103+/-0.000 χ^2/NDF :325555528.0/49

All: -0.100+/-0.000 χ^2/NDF : 588700788.1/93

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3414499.1/20

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

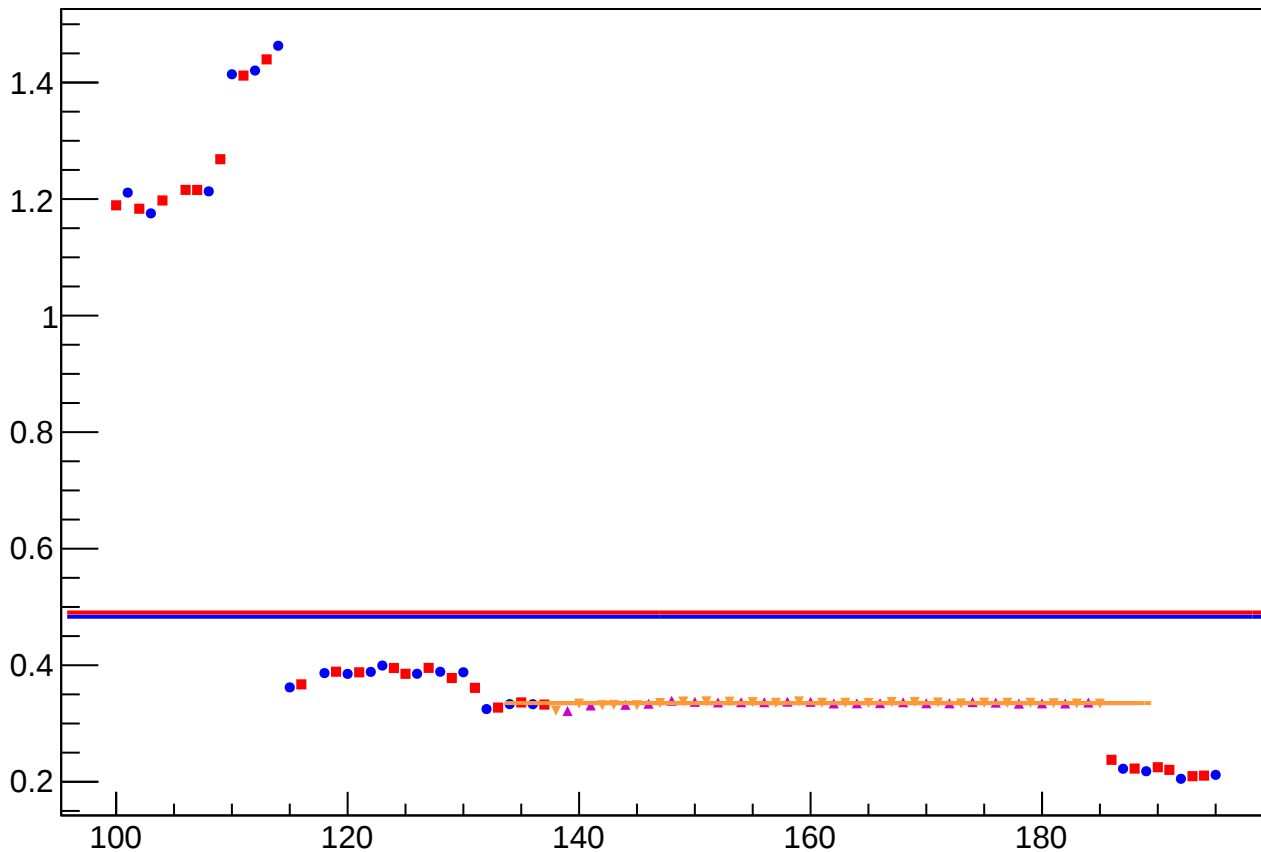
Right: 0.021+/-0.000 χ^2/NDF : 7709429.6/45

In: 0.020+/-0.000 χ^2/NDF : 4058772.8/43

Out: 0.020+/-0.000 χ^2/NDF : 5101992.0/49

All: 0.020+/-0.000 χ^2/NDF : 9161055.6/93

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.483+/-0.000 χ^2/NDF : 6141178111.6/20

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

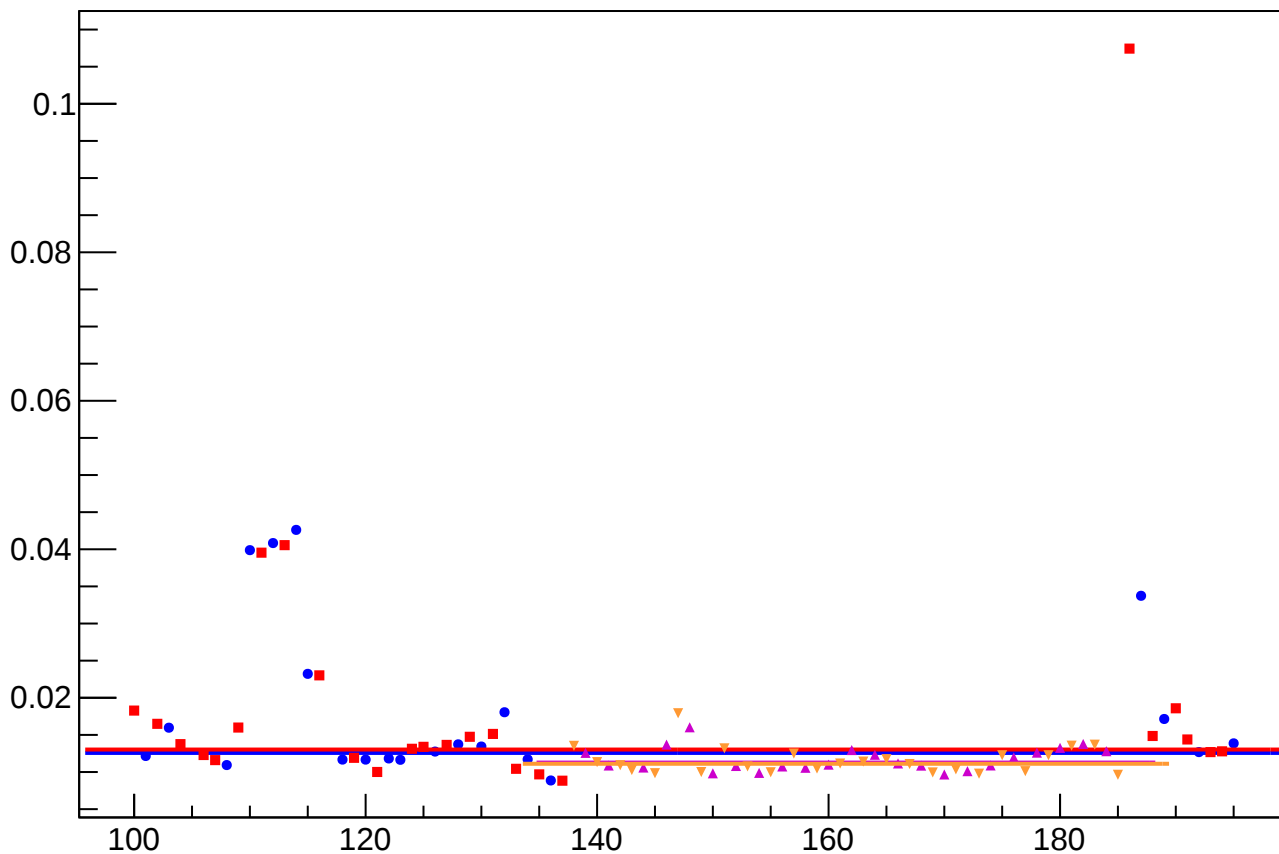
Right: 0.487+/-0.000 χ^2/NDF : 13326785400.4/45

In: 0.376+/-0.000 χ^2/NDF : 6930162345.1/43

Out: 0.377+/-0.000 χ^2/NDF : 8105118713.6/49

All: 0.376+/-0.000 χ^2/NDF : 15035368753.8/9

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1507145.7/20

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1920158.1/24

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

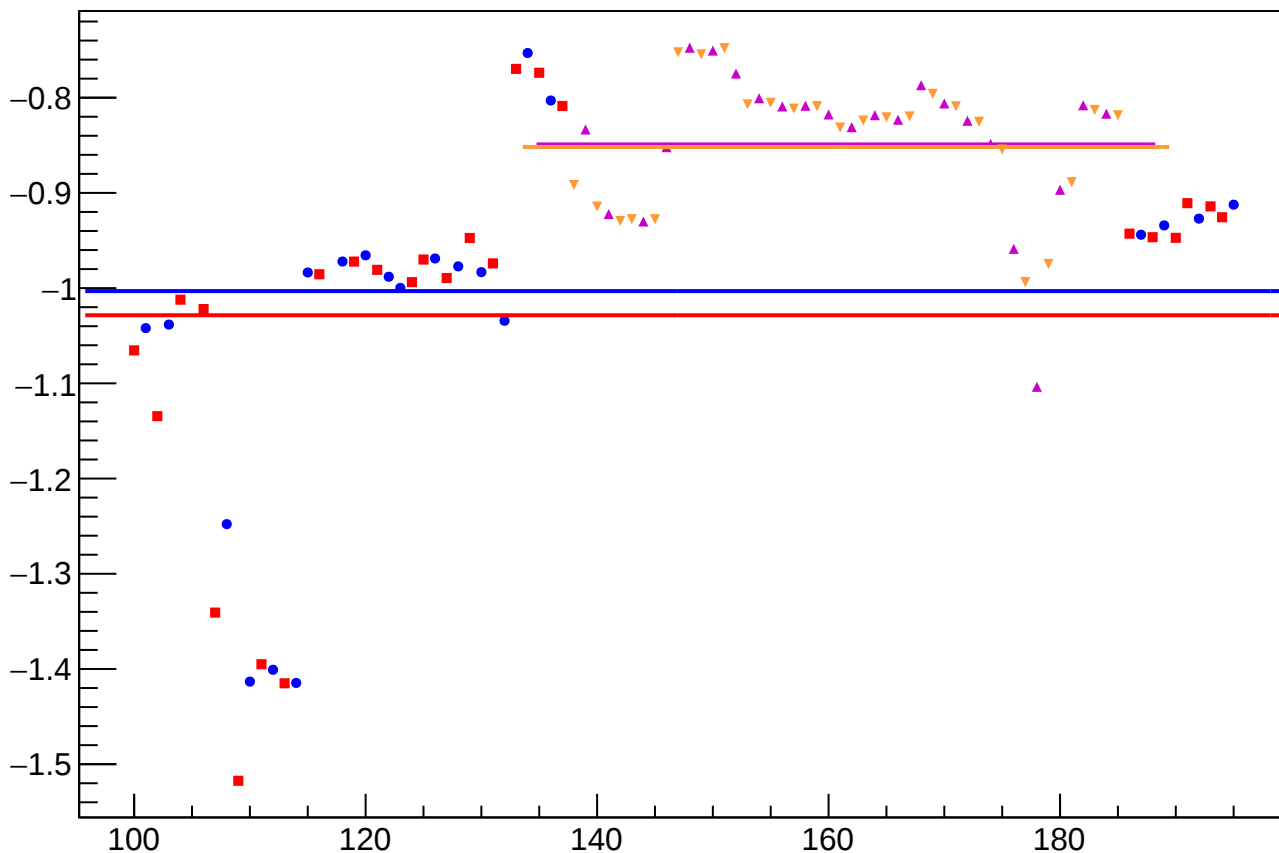
Right: 0.013+/-0.000 χ^2/NDF : 3437881.9/45

In: 0.012+/-0.000 χ^2/NDF : 2130705.4/43

Out: 0.012+/-0.000 χ^2/NDF : 2807277.6/49

All: 0.012+/-0.000 χ^2/NDF : 4937985.2/93

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.003 ± 0.000 $\chi^2/\text{NDF}: 397271022.8/20$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189103962.4/24$

Right Out: -1.028 ± 0.000 $\chi^2/\text{NDF}: 546072448.3/24$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445636655.2/47$

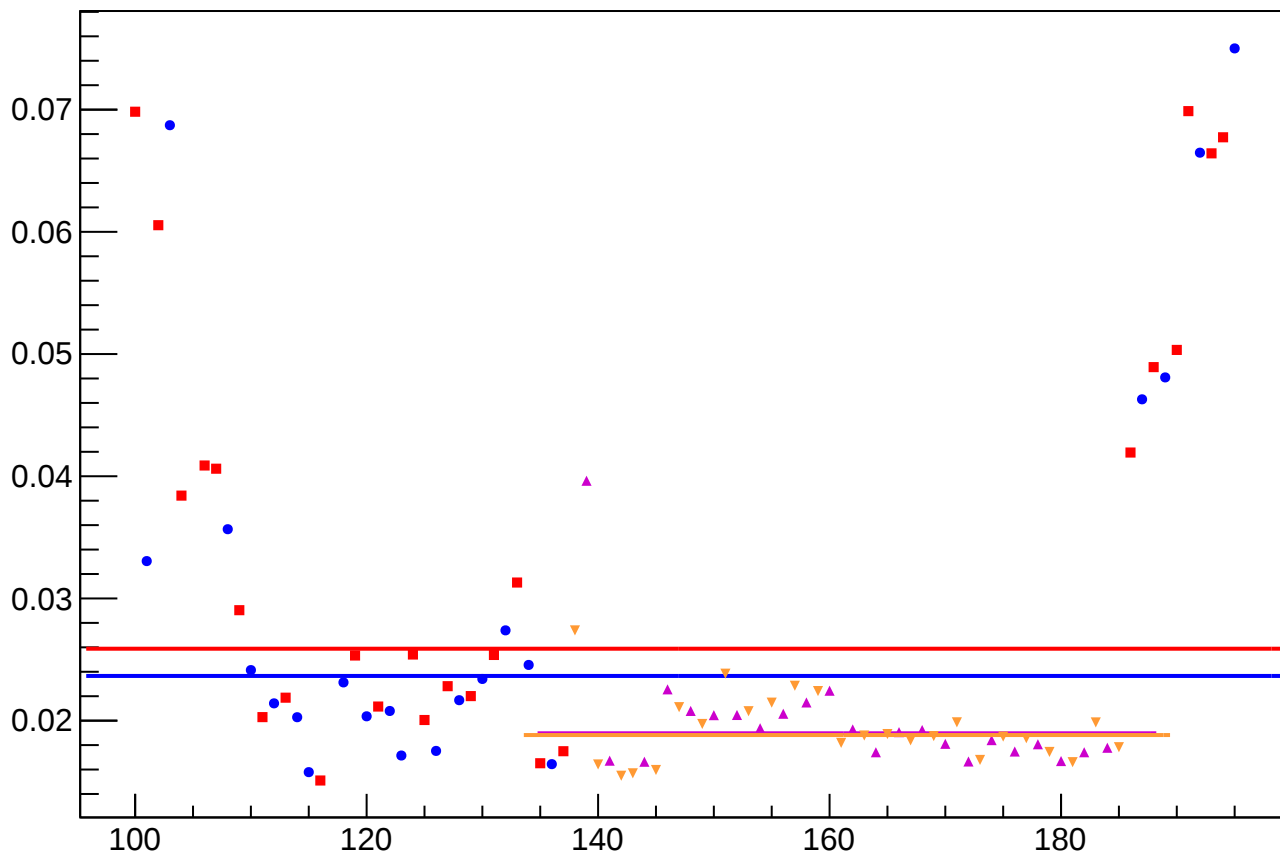
Right: -1.016 ± 0.000 $\chi^2/\text{NDF}: 947000309.3/45$

In: -0.884 ± 0.000 $\chi^2/\text{NDF}: 863960981.2/43$

Out: -0.889 ± 0.000 $\chi^2/\text{NDF}: 1012218535.7/49$

All: -0.887 ± 0.000 $\chi^2/\text{NDF}: 1876806349.3/99$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 2863980.1/20

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490509.4/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 3347390.4/24

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:615173.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1106521.0/47

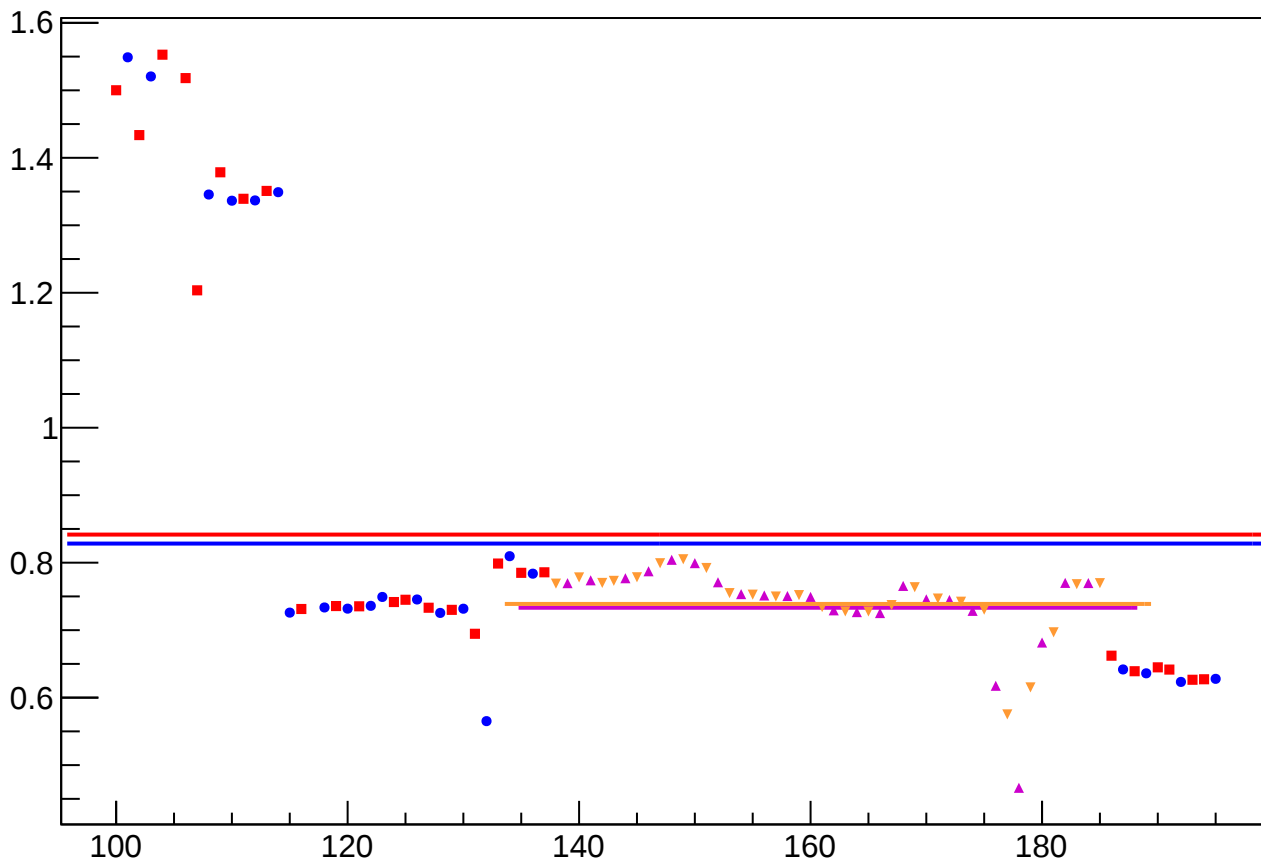
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 6267832.9/45

In: 0.020 $\pm$ 0.000 χ^2 /NDF:3869475.1/43

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:4723244.2/49

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 8596809.7/93

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.828 $\pm$ 0.000 χ^2/NDF : 2887662432.8/20

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

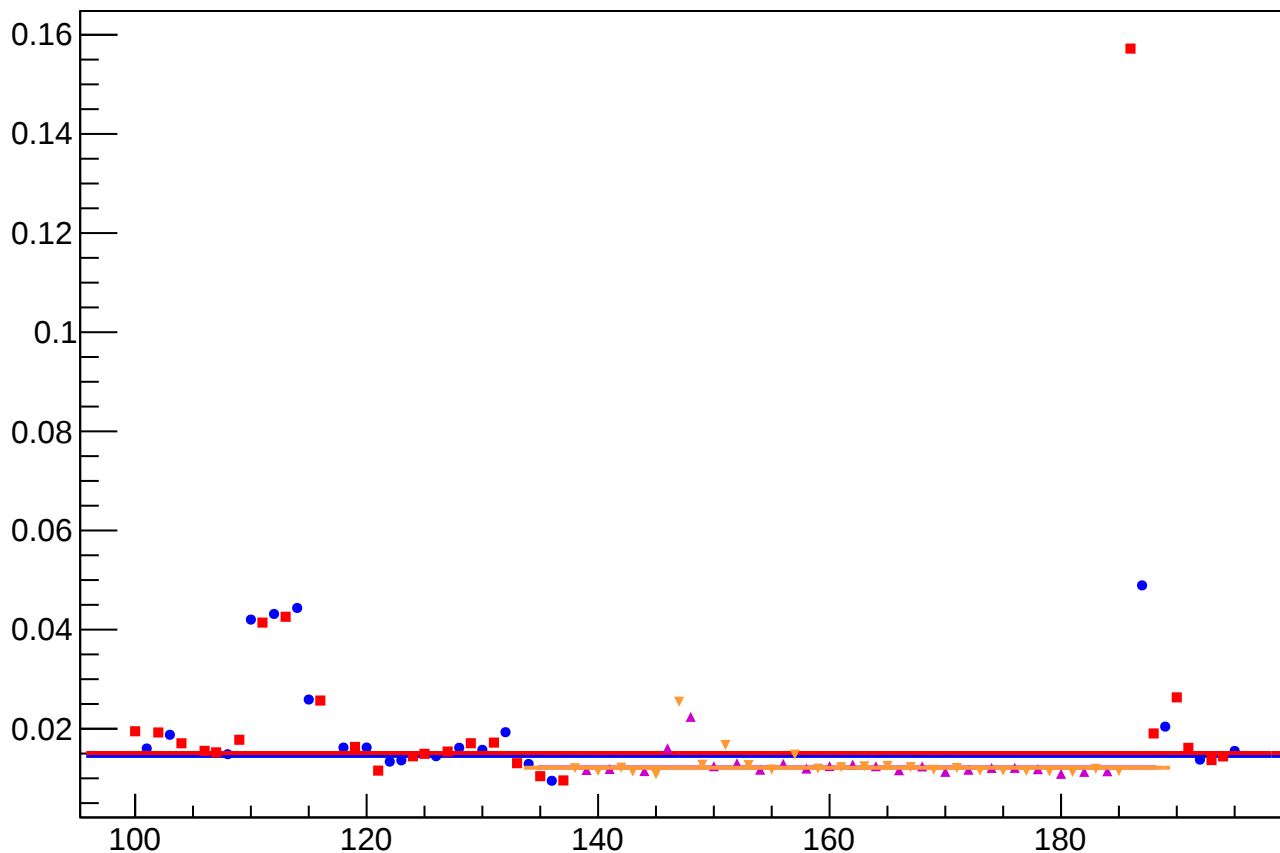
Right: 0.835 $\pm$ 0.000 χ^2/NDF : 6027564528.3/45

In: 0.757 $\pm$ 0.000 χ^2/NDF :3707613043.7/43

Out: 0.764 $\pm$ 0.000 χ^2/NDF :3778095572.5/49

All: 0.760 $\pm$ 0.000 χ^2/NDF : 7489796799.7/93

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1634692.2/20

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

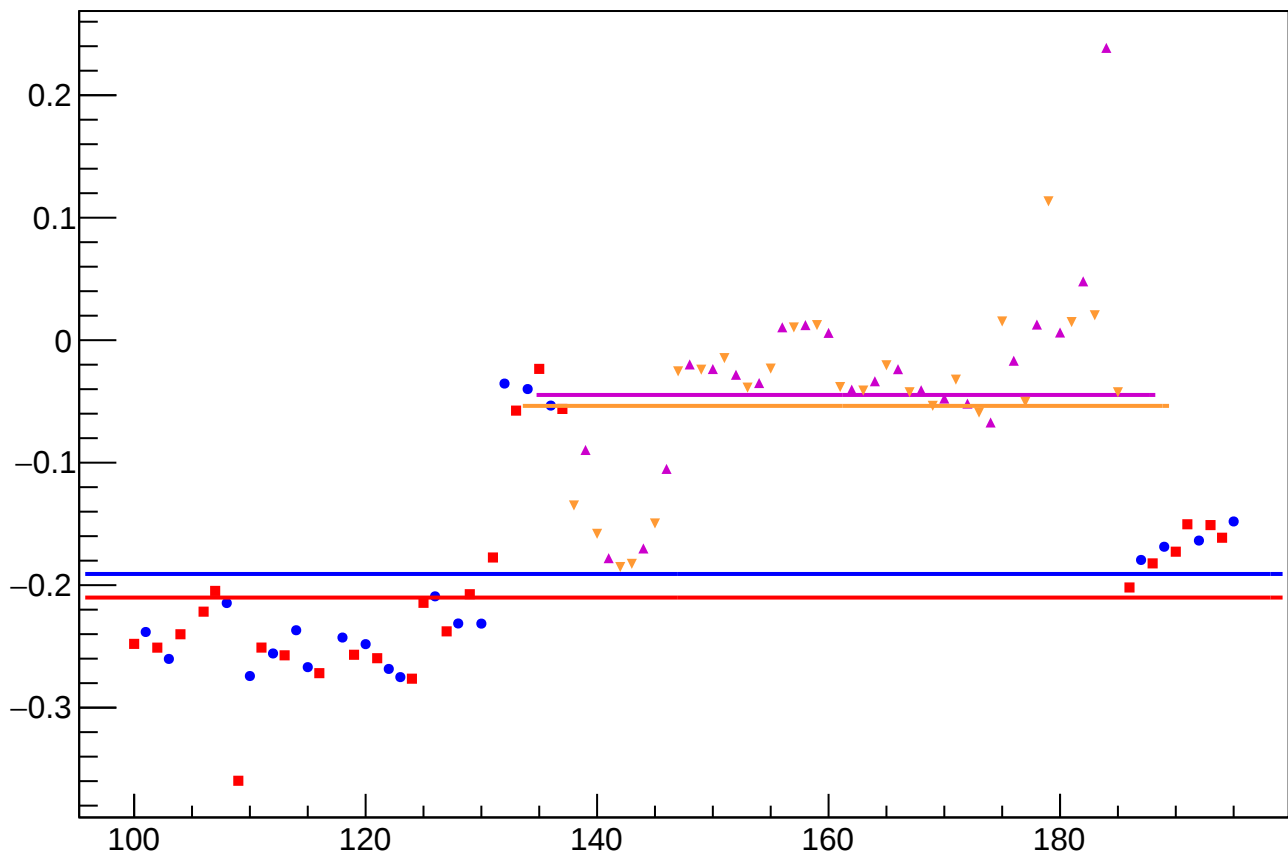
Right: 0.015+/-0.000 χ^2/NDF : 3705023.0/45

In: 0.013+/-0.000 χ^2/NDF : 2418286.7/43

Out: 0.013+/-0.000 χ^2/NDF : 3210789.9/49

All: 0.013+/-0.000 χ^2/NDF : 5630570.5/93

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191 ± 0.000 χ^2/NDF : 106713685.8/20

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

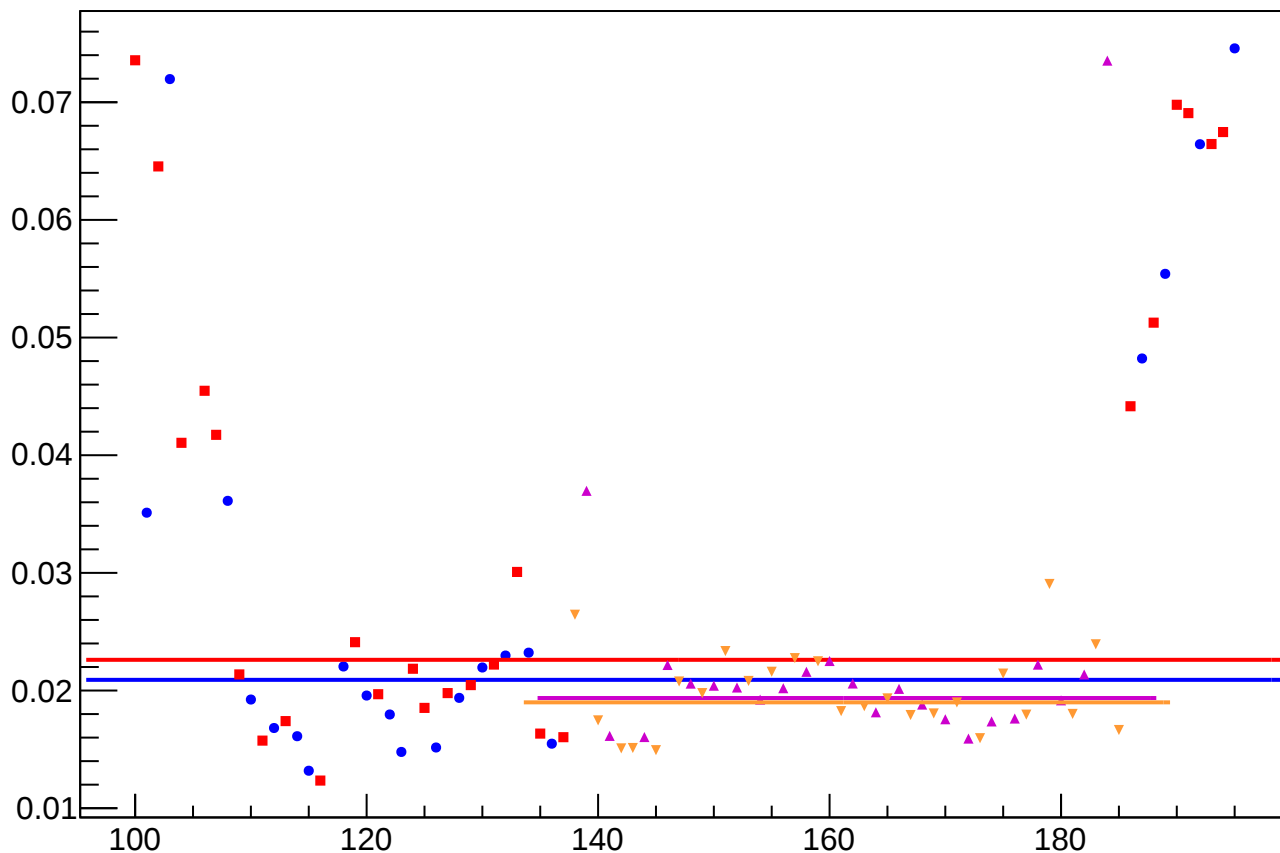
Right: -0.200 ± 0.000 χ^2/NDF : 221495219.5/45

In: -0.085 ± 0.000 χ^2/NDF : 452777839.8/43

Out: -0.094 ± 0.000 χ^2/NDF : 533967642.0/49

All: -0.090 ± 0.000 χ^2/NDF : 988641589.8/93

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3377310.5/20

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

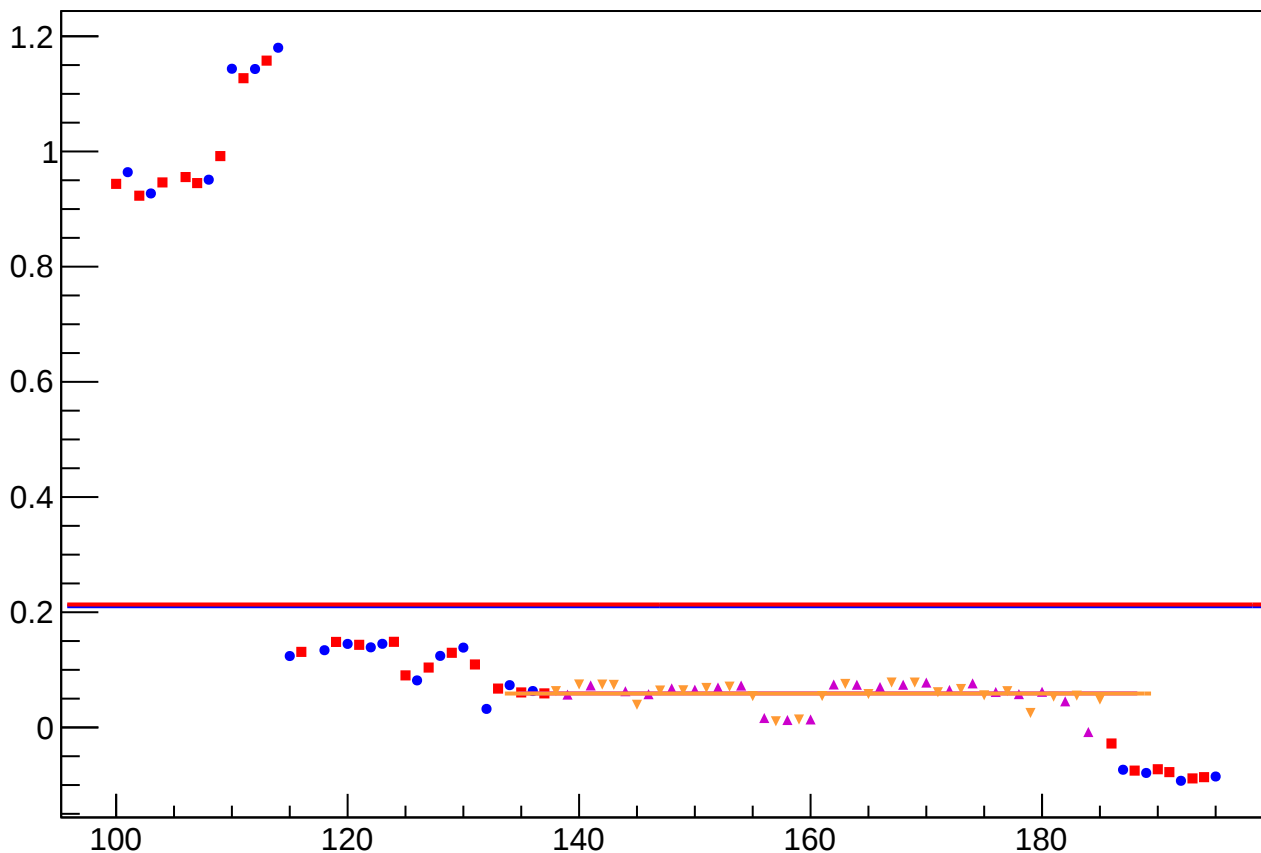
Right: 0.022+/-0.000 χ^2/NDF : 7649004.6/45

In: 0.020+/-0.000 χ^2/NDF : 4284390.3/43

Out: 0.020+/-0.000 χ^2/NDF : 5202252.6/49

All: 0.020+/-0.000 χ^2/NDF : 9487523.0/93

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.210+/-0.000 χ^2/NDF : 6505372543.7/20

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.213+/-0.000 χ^2/NDF : 7446303453.9/24

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

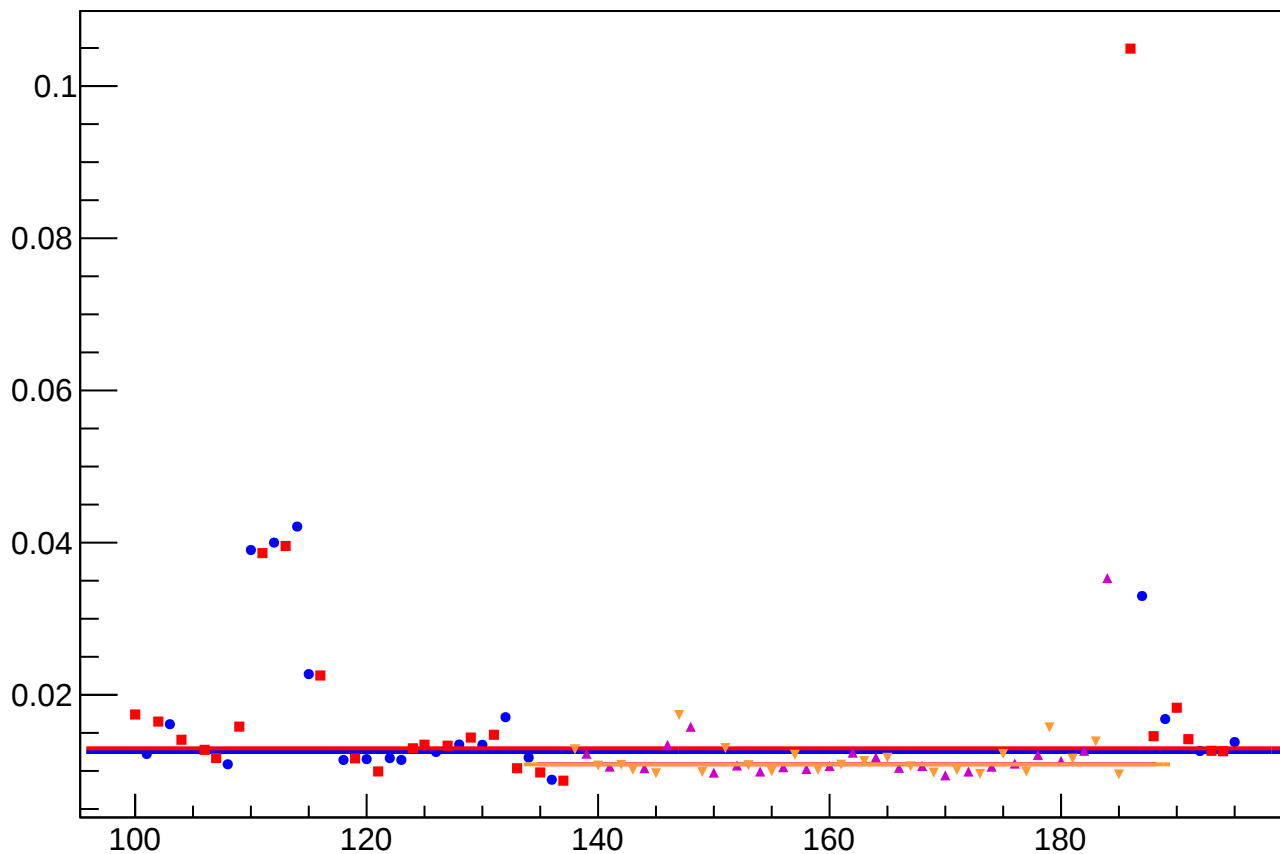
Right: 0.212+/-0.000 χ^2/NDF : 13951911112.3/45

In: 0.100+/-0.000 χ^2/NDF : 7404300905.9/43

Out: 0.100+/-0.000 χ^2/NDF : 8413946100.8/49

All: 0.100+/-0.000 χ^2/NDF : 15818254085.4/94

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1473956.5/20

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1874050.5/24

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:530077.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1134994.9/47

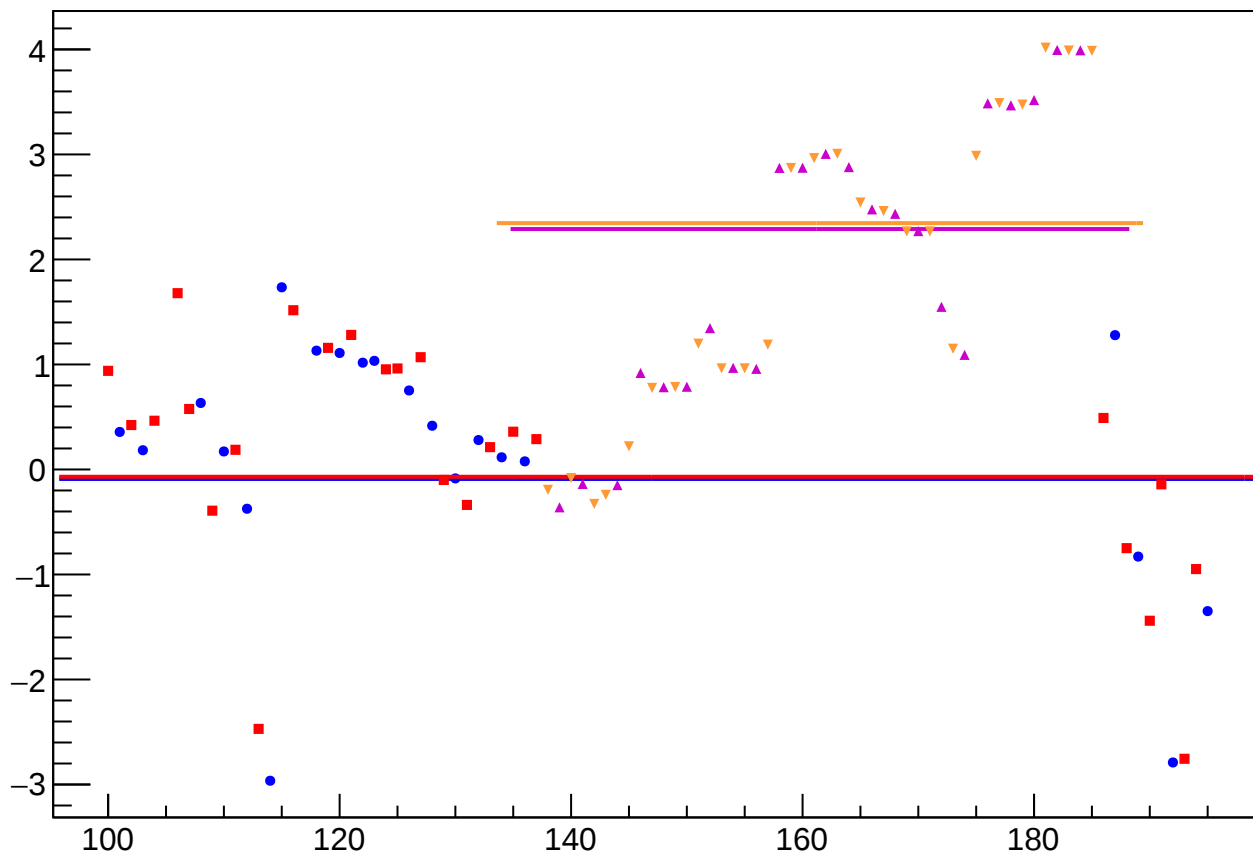
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3360002.6/45

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2191091.0/43

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2821891.3/49

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5015016.4/93

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.090 ± 0.000 $\chi^2/\text{NDF}: 2771330446.6/20$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.070 ± 0.000 $\chi^2/\text{NDF}: 3272515170.4/24$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

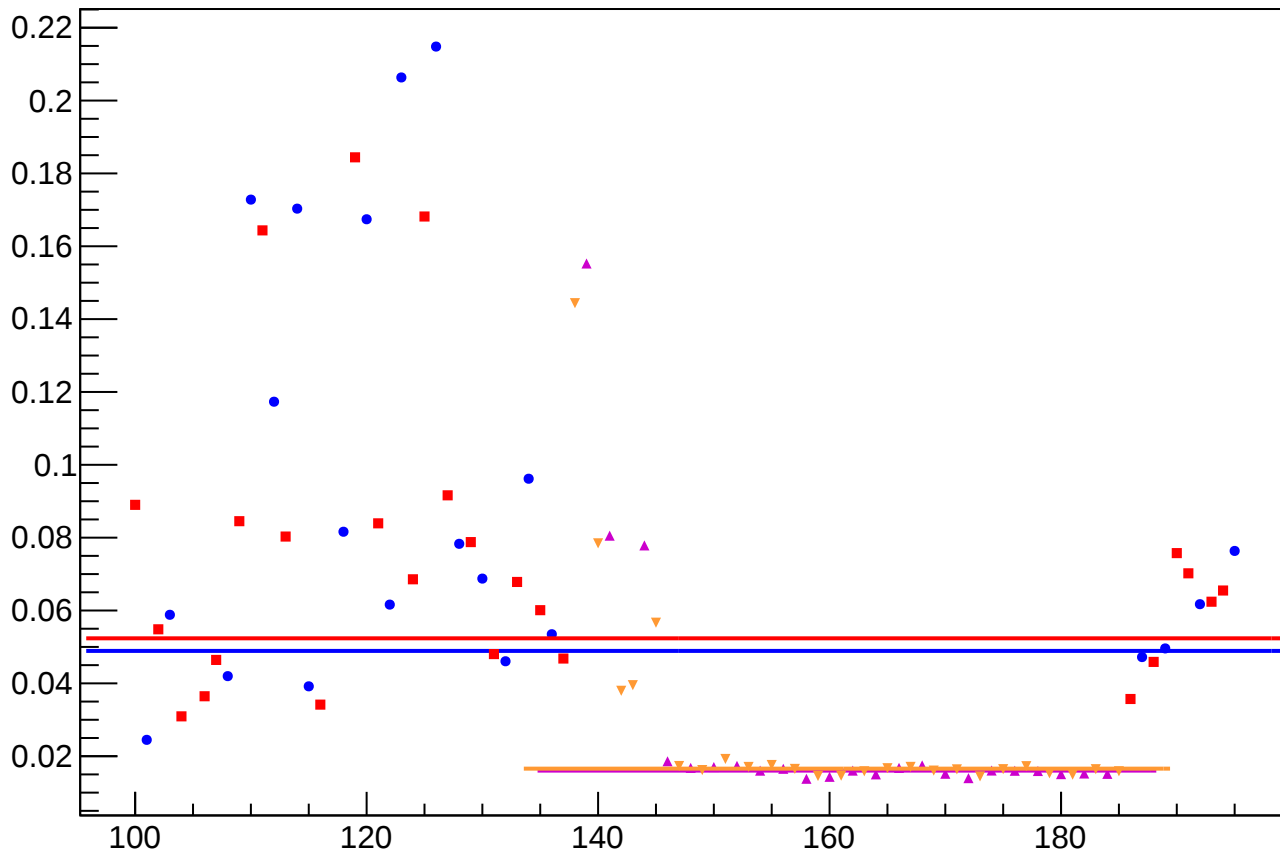
Right: -0.079 ± 0.000 $\chi^2/\text{NDF}: 6044374500.6/45$

In: 2.186 ± 0.000 $\chi^2/\text{NDF}: 76369208291.8/43$

Out: 2.228 ± 0.000 $\chi^2/\text{NDF}: 81269091726.6/49$

All: 2.207 ± 0.000 $\chi^2/\text{NDF}: 157684897159.0$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.049 $\pm$ 0.000 χ^2 /NDF: 3167563.5/20

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

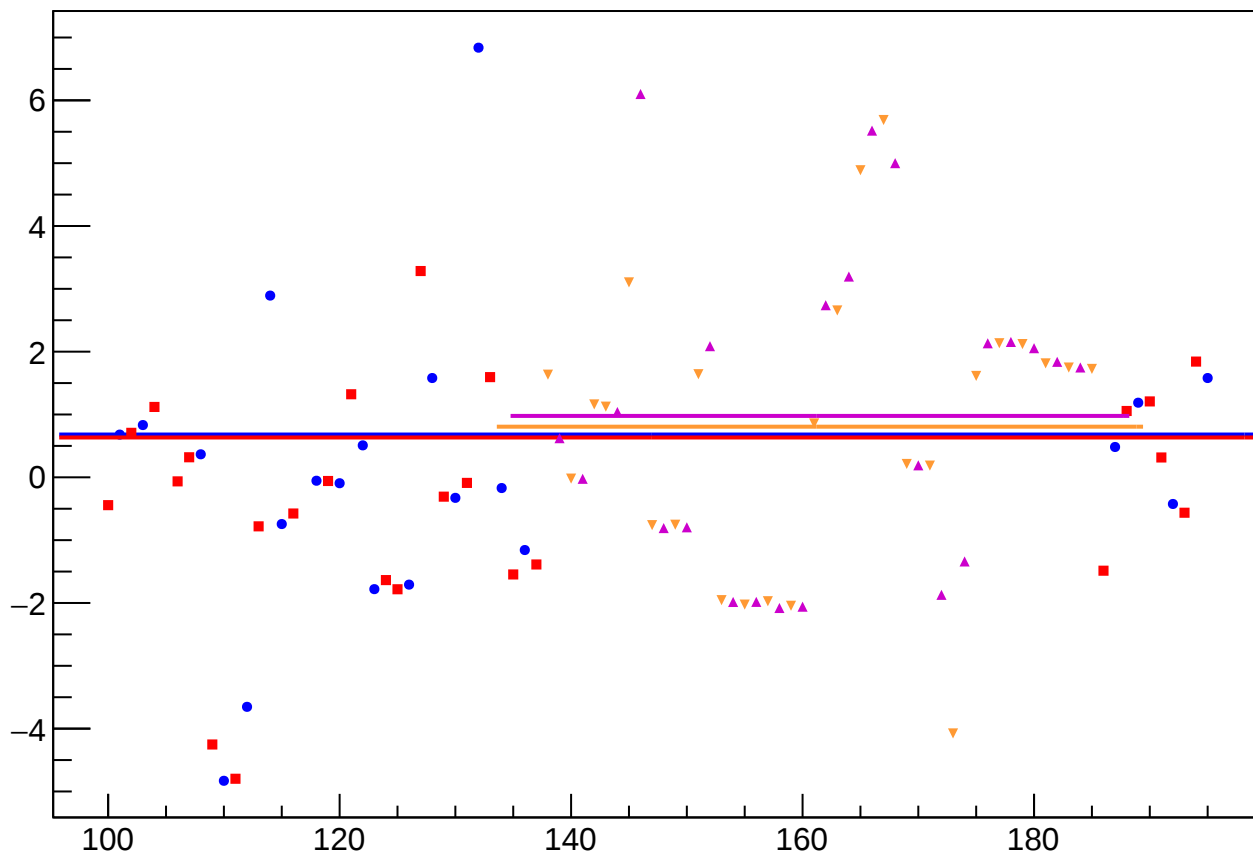
Right: 0.051 $\pm$ 0.000 χ^2 /NDF: 5747577.3/45

In: 0.017 $\pm$ 0.000 χ^2 /NDF:10413397.3/43

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:11540294.7/49

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 21993679.5/93

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.681+/-0.000

χ^2/NDF : 15589966237.7/20

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Right: 0.657+/-0.000

χ^2/NDF : 26612596760.3/45

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

In: 0.949+/-0.000

χ^2/NDF : 584511393668.2/43

Right Out: 0.634+/-0.000

χ^2/NDF : 11012433135.0/24

Out: 0.789+/-0.000

χ^2/NDF : 518842448827.4/49

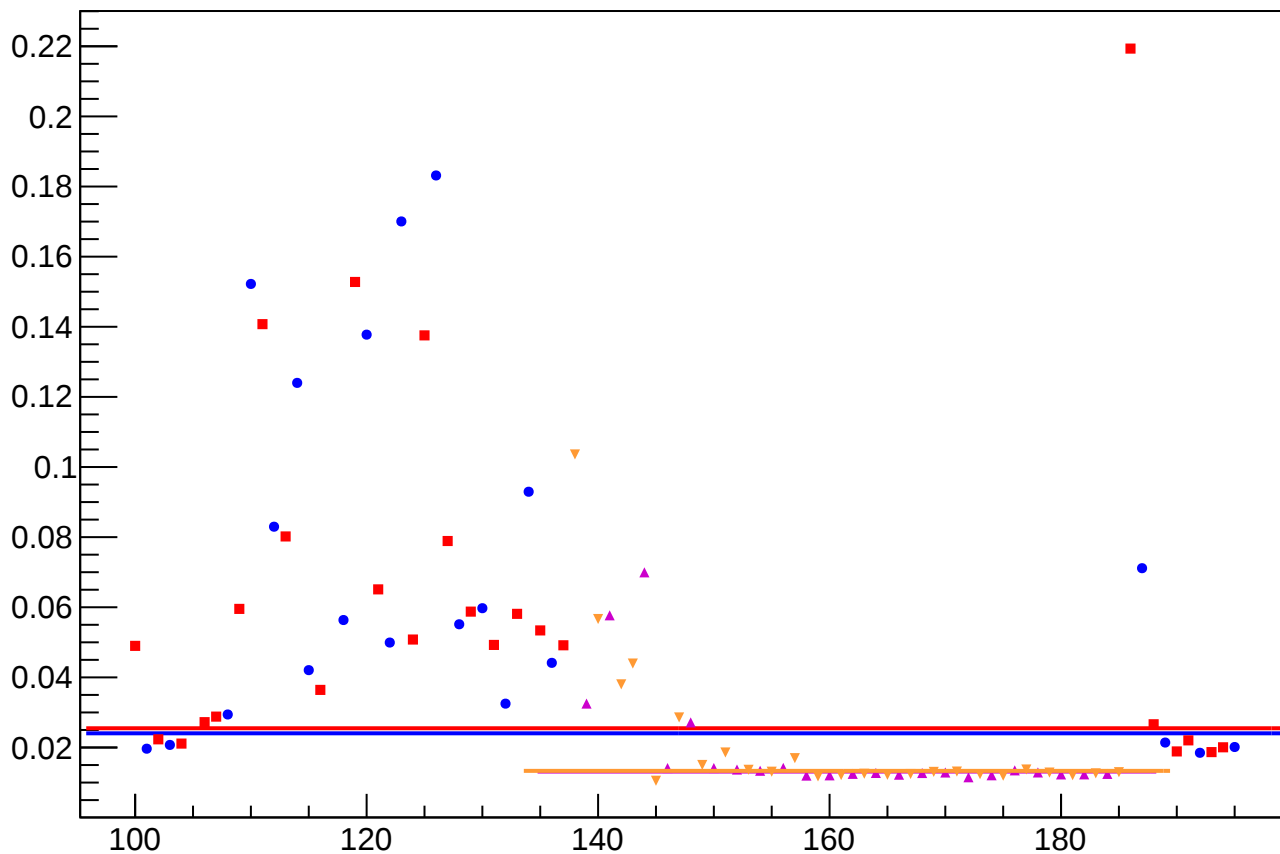
Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

All: 0.869+/-0.000

χ^2/NDF : 1104564441070.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.024+/-0.000 χ^2/NDF : 3594917.1/20

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

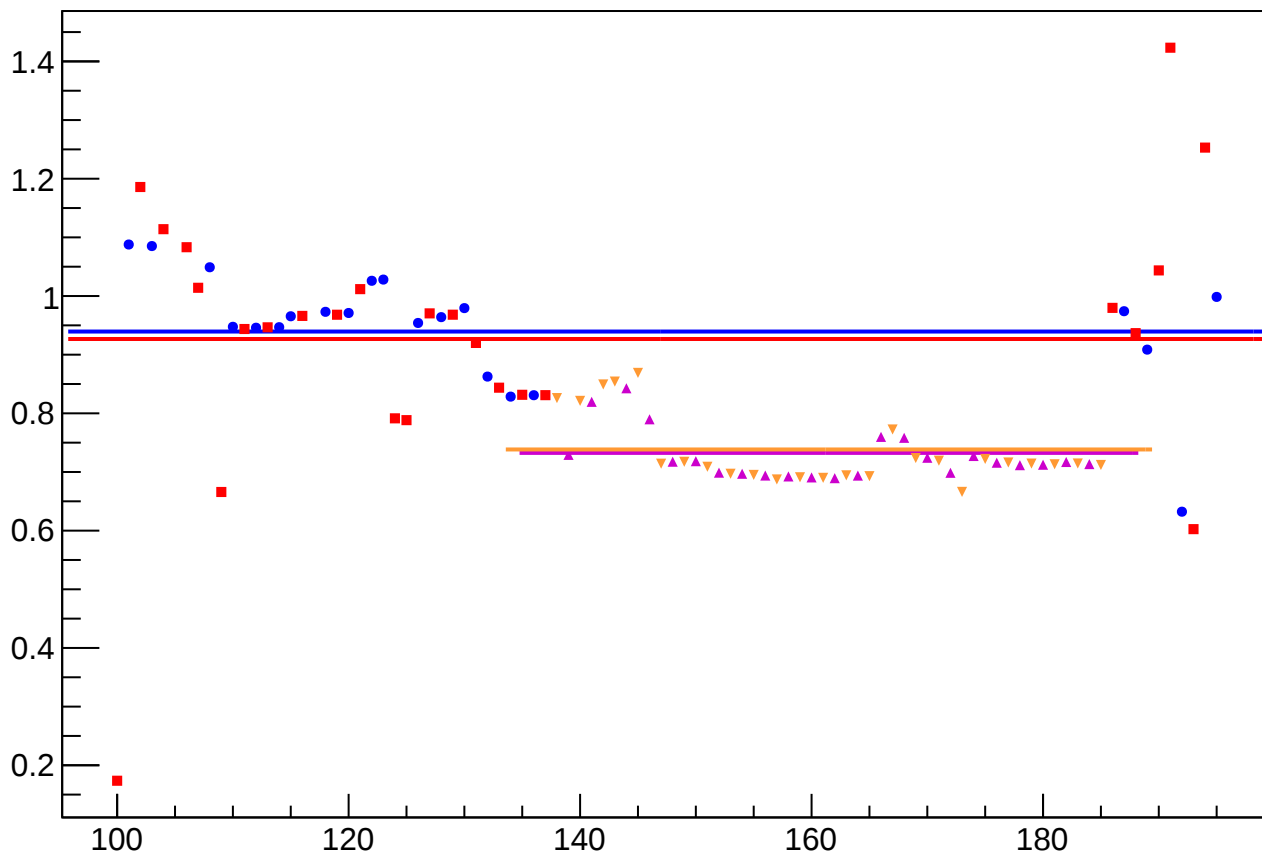
Right: 0.025+/-0.000 χ^2/NDF : 8006548.0/45

In: 0.014+/-0.000 χ^2/NDF : 7472277.4/43

Out: 0.015+/-0.000 χ^2/NDF : 9727849.0/49

All: 0.014+/-0.000 χ^2/NDF : 17213499.9/93

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.939+/-0.000 χ^2/NDF : 300875949.7/20

Left Out: 0.738+/-0.000 χ^2/NDF :310195180.4/24

Right Out: 0.927+/-0.000 χ^2/NDF : 660597095.1/24

Left In: 0.733+/-0.000 χ^2/NDF :170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

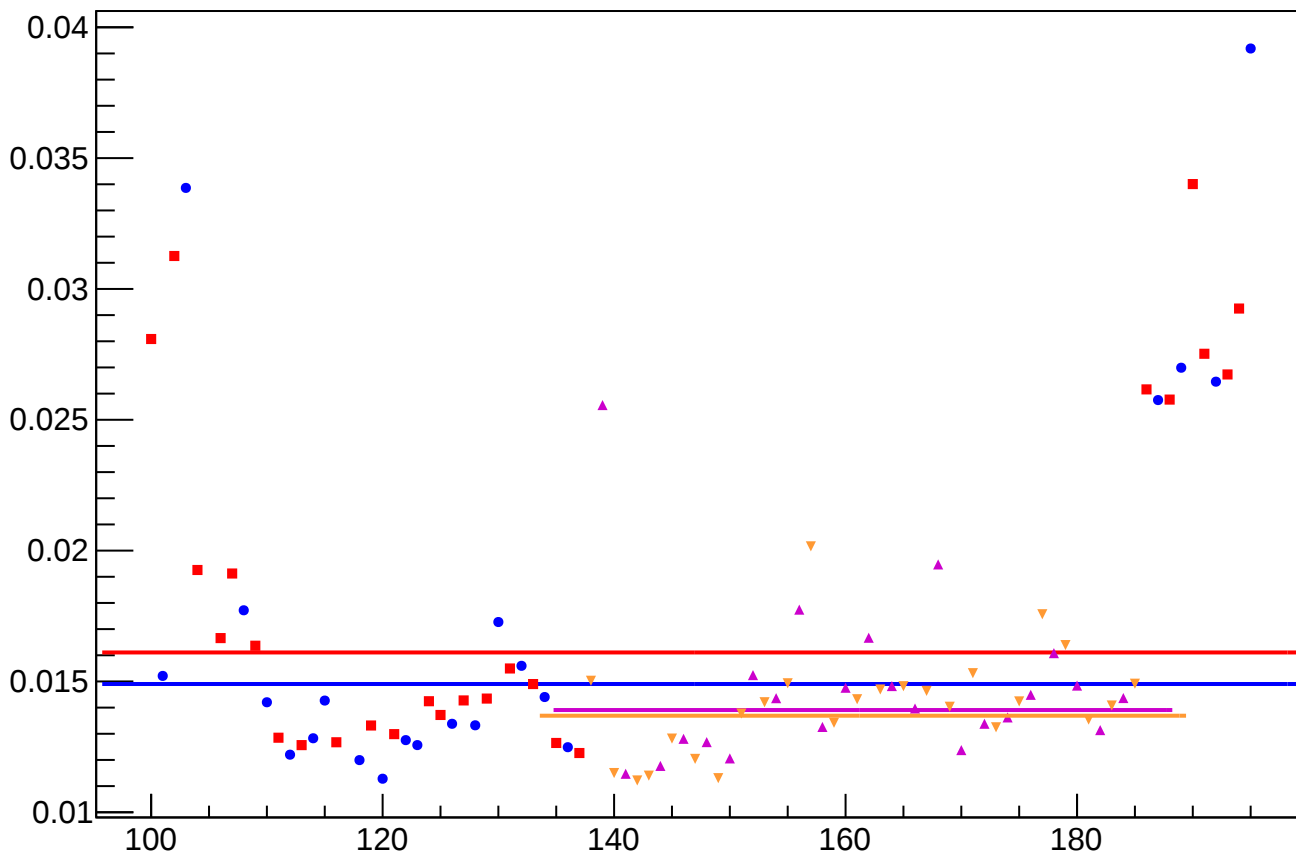
Right: 0.933+/-0.000 χ^2/NDF : 964178669.4/45

In: 0.794+/-0.000 χ^2/NDF :1479624652.0/43

Out: 0.791+/-0.000 χ^2/NDF :1829017873.4/49

All: 0.792+/-0.000 χ^2/NDF : 3308989386.8/93

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1792294.4/20

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

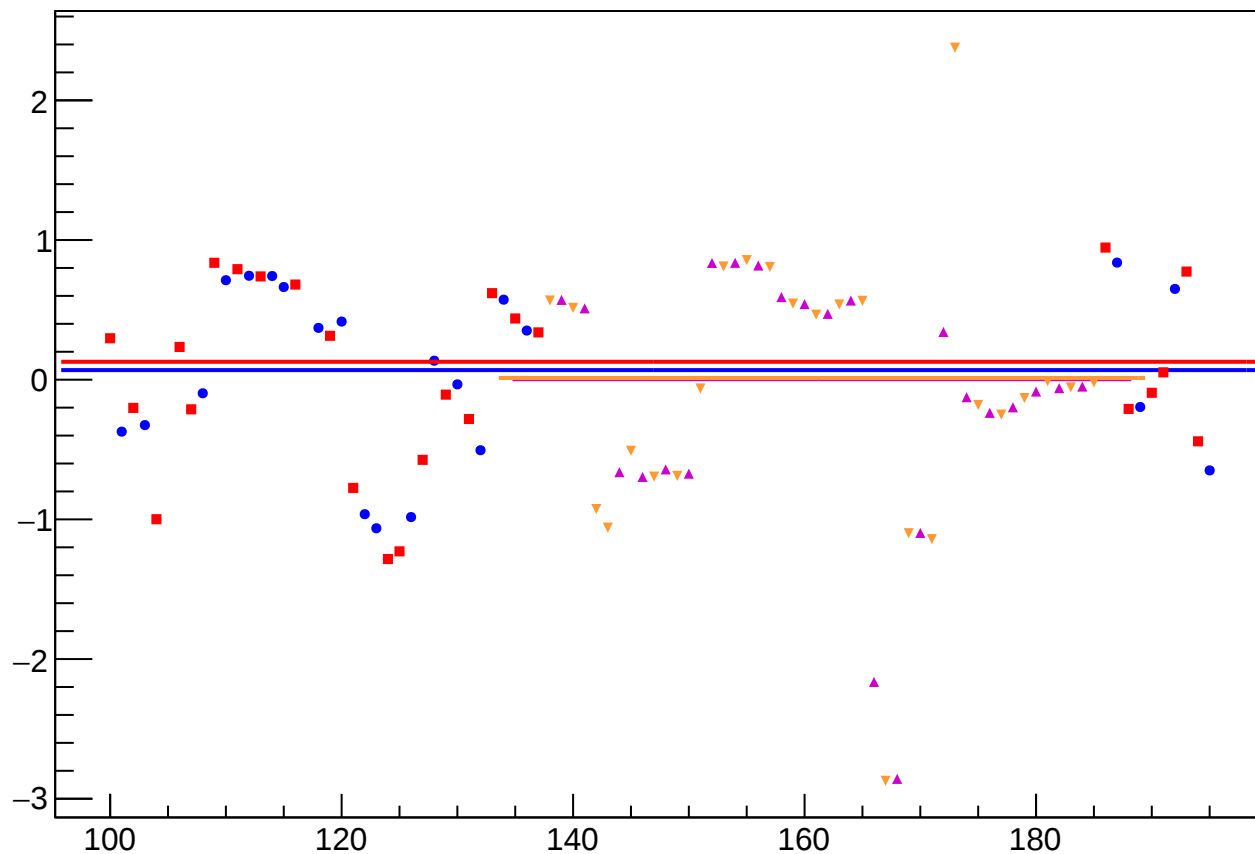
Right: 0.016+/-0.000 χ^2/NDF : 3684197.4/45

In: 0.014+/-0.000 χ^2/NDF : 2607066.2/43

Out: 0.014+/-0.000 χ^2/NDF : 2654381.5/49

All: 0.014+/-0.000 χ^2/NDF : 5264690.0/93

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.069+/-0.000 χ^2/NDF : 12254968503.6/20

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: 0.128+/-0.000 χ^2/NDF : 18031170260.1/24

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

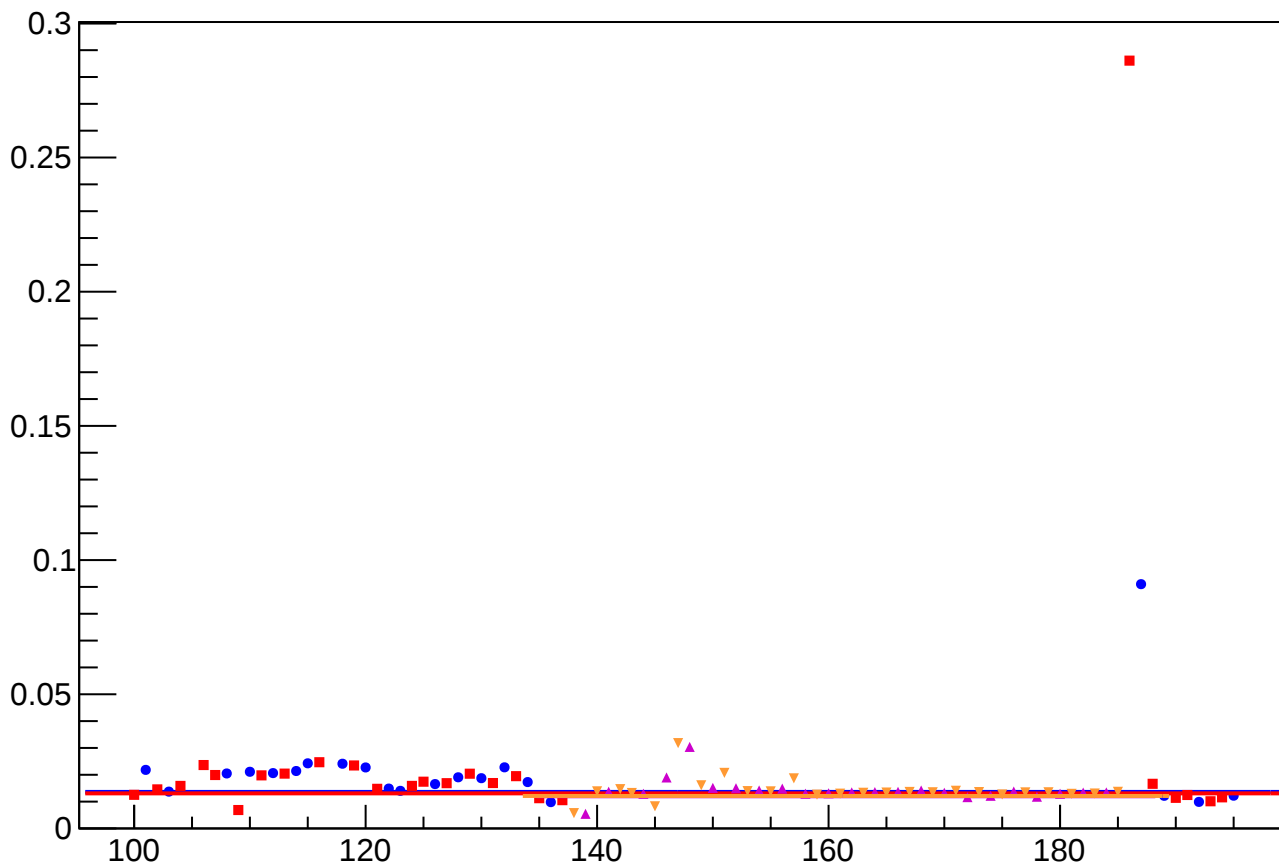
Right: 0.101+/-0.000 χ^2/NDF : 30364079873.8/45

In: 0.021+/-0.000 χ^2/NDF : 91206443574.9/43

Out: 0.048+/-0.000 χ^2/NDF : 114861948376.4/49

All: 0.035+/-0.000 χ^2/NDF : 206120436724.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1801717.8/20

Left Out: 0.012+/-0.000 χ^2/NDF : 3105238.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2456137.1/24

Left In: 0.012+/-0.000 χ^2/NDF : 3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

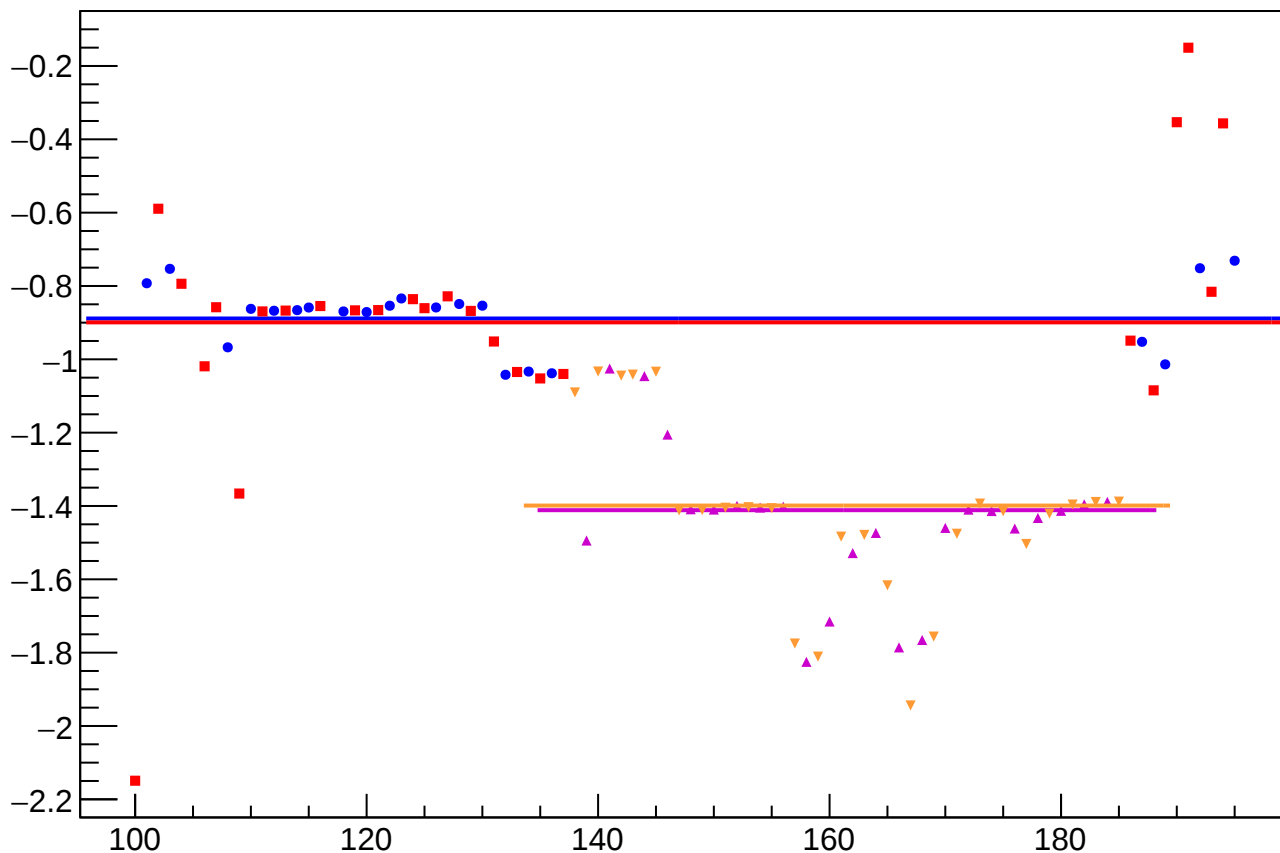
Right: 0.013+/-0.000 χ^2/NDF : 4270534.4/45

In: 0.012+/-0.000 χ^2/NDF : 4956774.5/43

Out: 0.012+/-0.000 χ^2/NDF : 5623369.8/49

All: 0.012+/-0.000 χ^2/NDF : 10580467.6/93

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.889 ± 0.000 $\chi^2/\text{NDF}: 47435299.8/20$

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 $\chi^2/\text{NDF}: 1251791467.1/47$

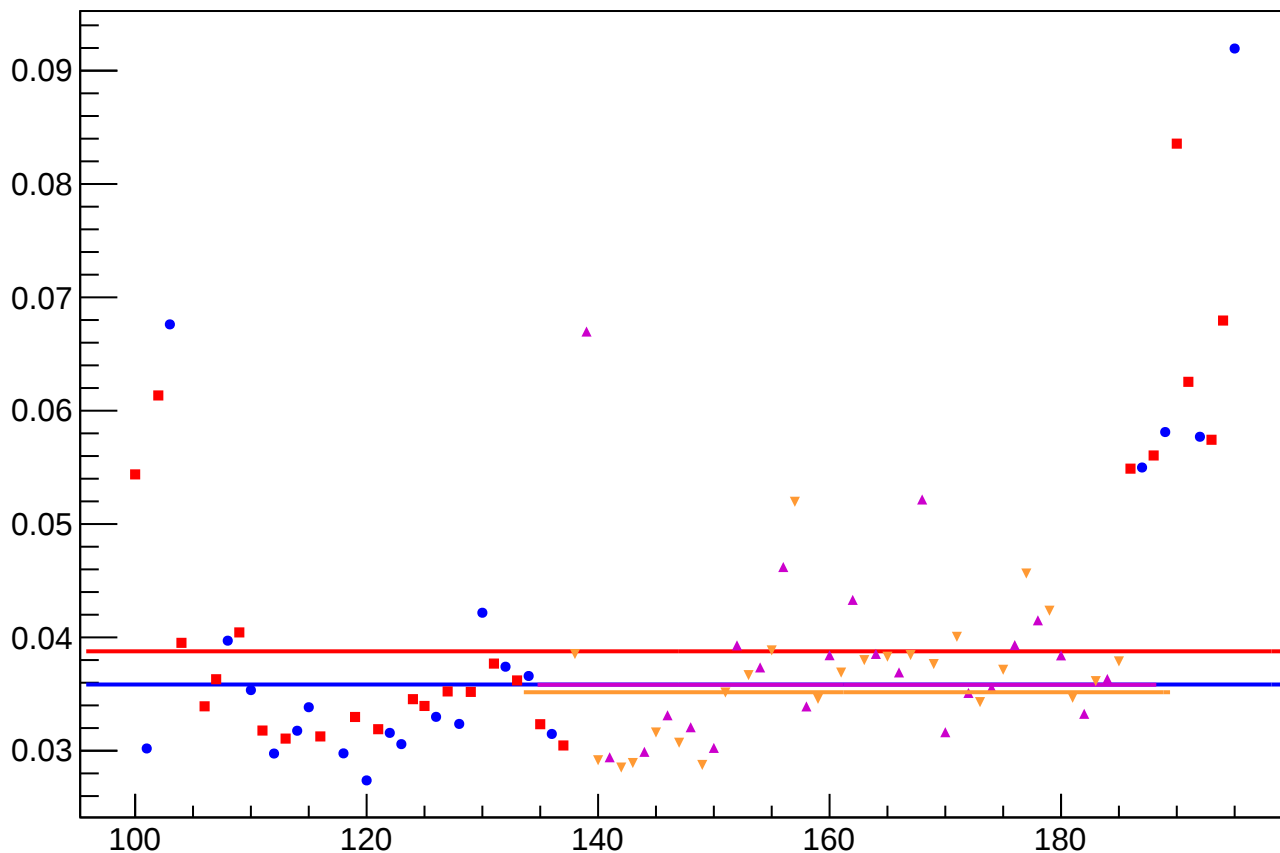
Right: -0.894 ± 0.000 $\chi^2/\text{NDF}: 290124193.5/45$

In: -1.239 ± 0.000 $\chi^2/\text{NDF}: 1635971467.6/43$

Out: -1.242 ± 0.000 $\chi^2/\text{NDF}: 1995510804.6/49$

All: -1.240 ± 0.000 $\chi^2/\text{NDF}: 3631598678.3/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.036 $\pm$ 0.000 χ^2 /NDF: 1475885.5/20

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

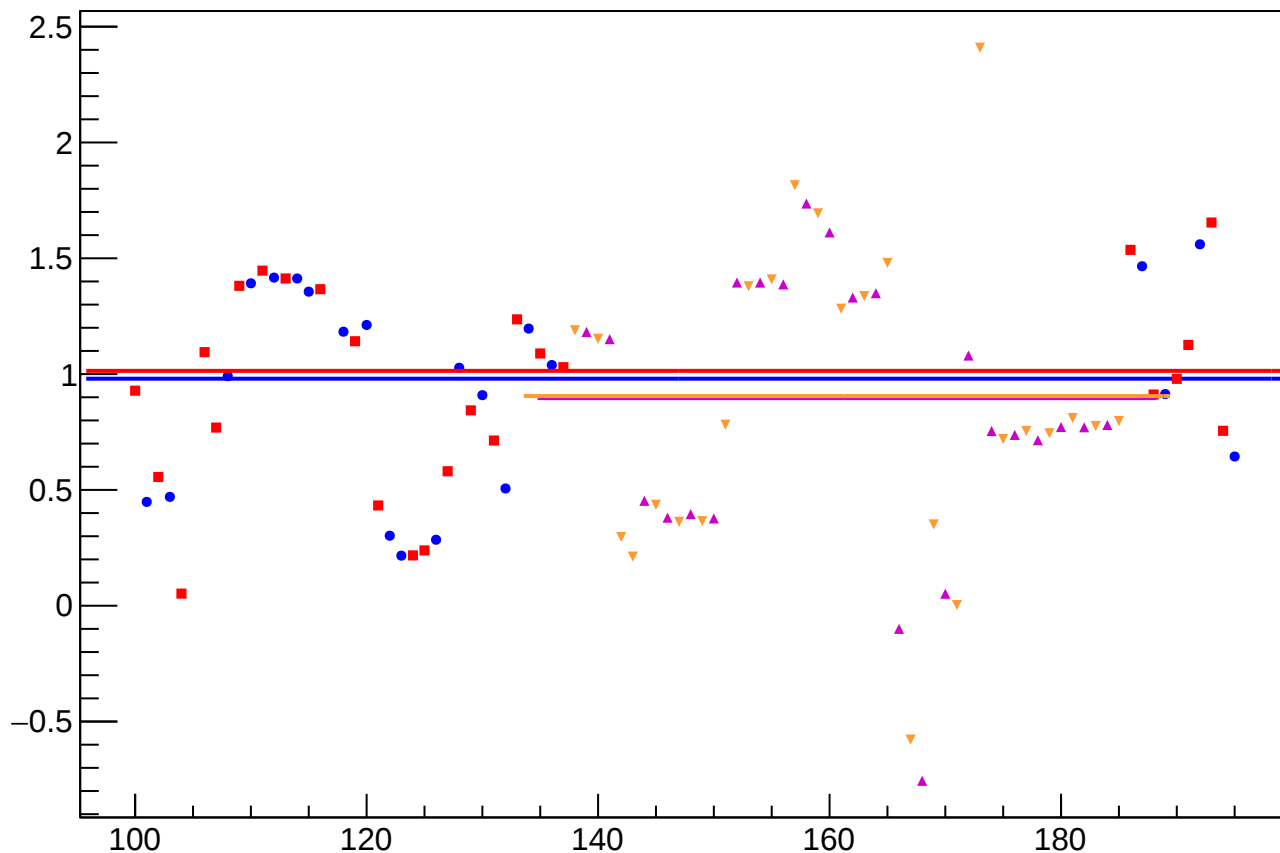
Right: 0.037 $\pm$ 0.000 χ^2 /NDF: 2889696.0/45

In: 0.036 $\pm$ 0.000 χ^2 /NDF:2340037.3/43

Out: 0.036 $\pm$ 0.000 χ^2 /NDF:2064392.2/49

All: 0.036 $\pm$ 0.000 χ^2 /NDF: 4408408.1/93

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.980+/-0.000

χ^2/NDF : 13918955930.7/20

Left: 0.901+/-0.000

χ^2/NDF : 150868618084.6/47

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

Right: 0.998+/-0.000

χ^2/NDF : 30531115784.1/45

Right Out: 1.014+/-0.000

χ^2/NDF : 16560732519.0/24

In: 0.921+/-0.000

χ^2/NDF : 80937647409.8/43

Out: 0.938+/-0.000

χ^2/NDF : 101604608843.1/49

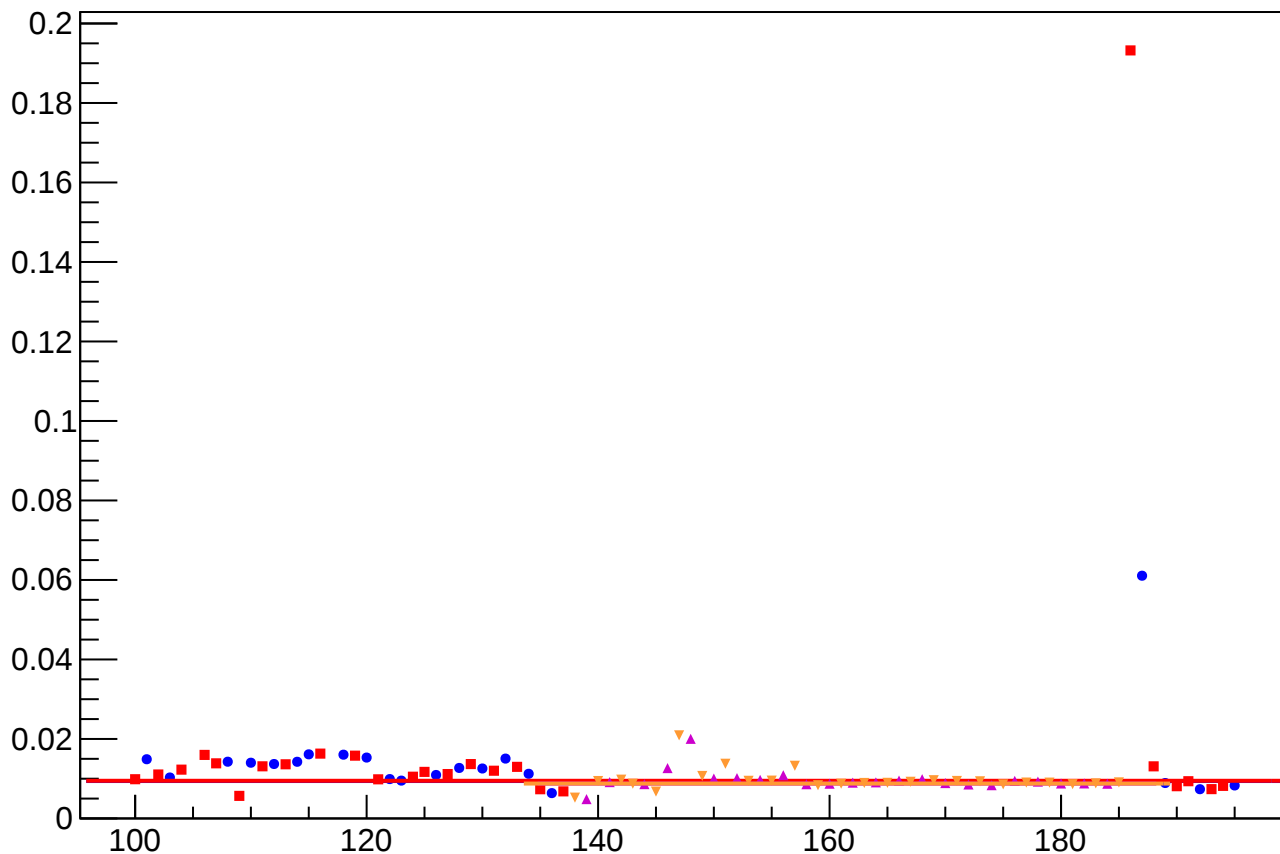
Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 0.930+/-0.000

χ^2/NDF : 182586068727.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1684407.7/20

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

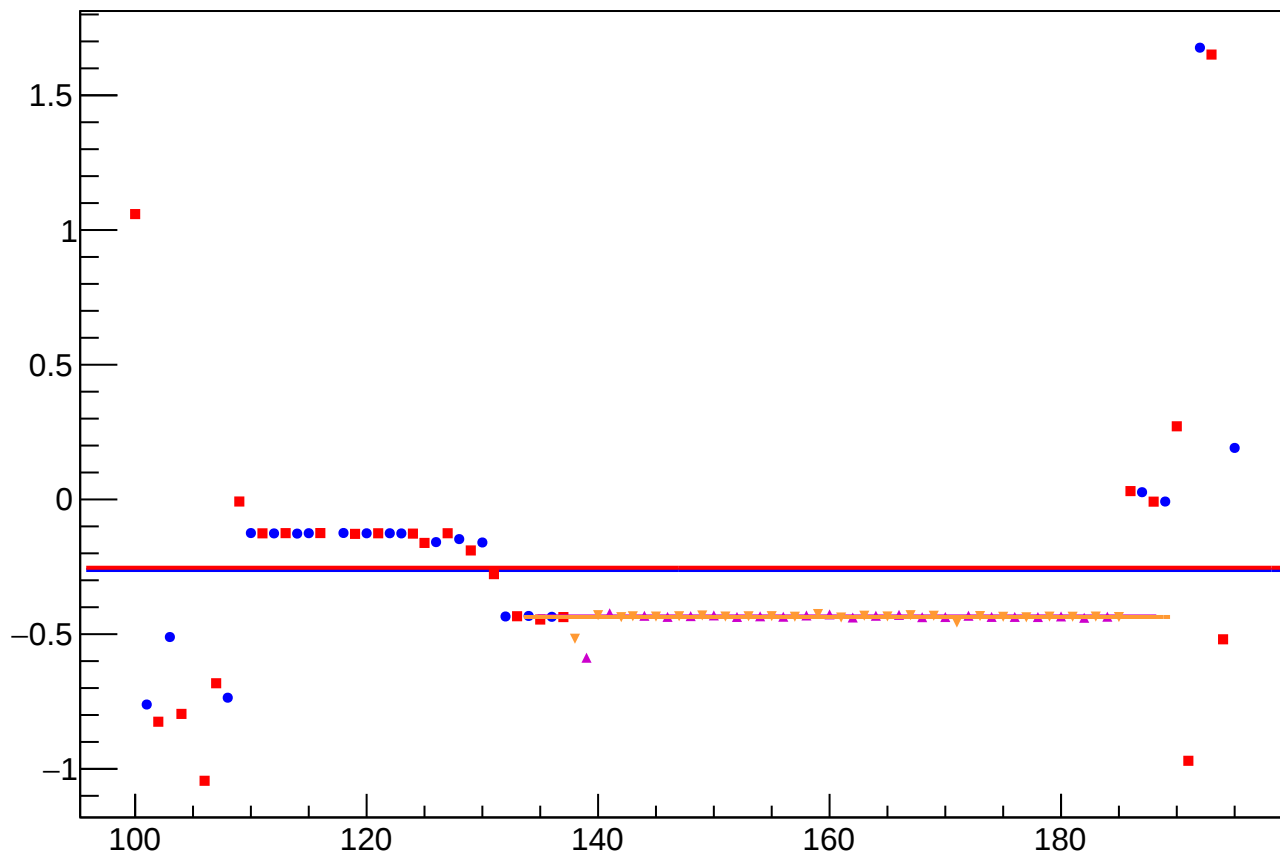
Right: 0.009+/-0.000 χ^2/NDF : 3808567.7/45

In: 0.009+/-0.000 χ^2/NDF : 3341919.1/43

Out: 0.009+/-0.000 χ^2/NDF : 3885425.2/49

All: 0.009+/-0.000 χ^2/NDF : 7227561.0/93

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.262 $\pm$ 0.000 χ^2 /NDF: 1891861927.8/20

Left Out: -0.436 $\pm$ 0.000 χ^2 /NDF: 28774660.0/24

Right Out: -0.253 $\pm$ 0.000 χ^2 /NDF: 1764013666.4/24

Left In: -0.434 $\pm$ 0.000 χ^2 /NDF: 23984173.0/22

Left: -0.435 $\pm$ 0.000 χ^2 /NDF: 53122221.7/47

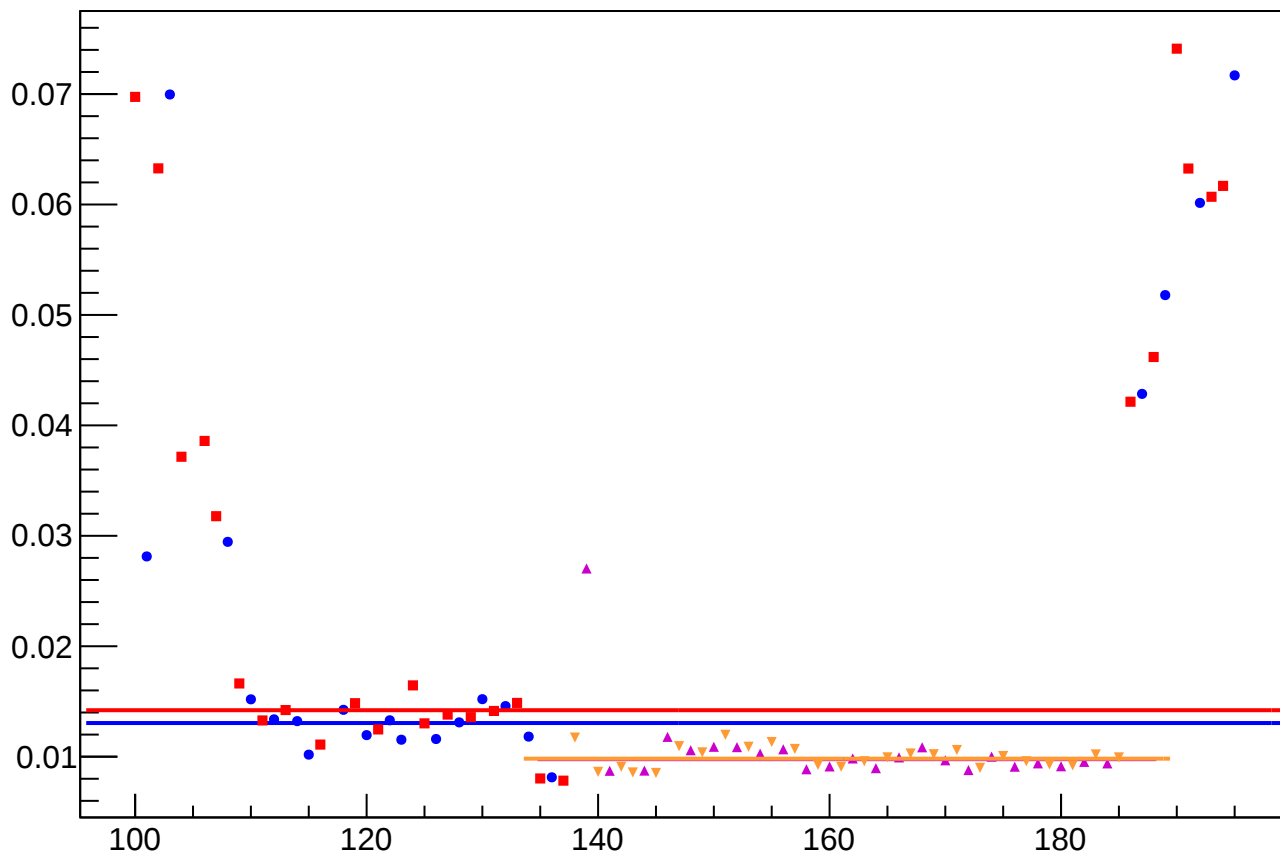
Right: -0.258 $\pm$ 0.000 χ^2 /NDF: 3657025580.7/45

In: -0.404 $\pm$ 0.000 χ^2 /NDF: 2711798100.4/43

Out: -0.407 $\pm$ 0.000 χ^2 /NDF: 2660327314.3/49

All: -0.405 $\pm$ 0.000 χ^2 /NDF: 5373108539.0/9

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 4568006.9/20

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :269242.6/24

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 5755211.0/24

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1017115.3/47

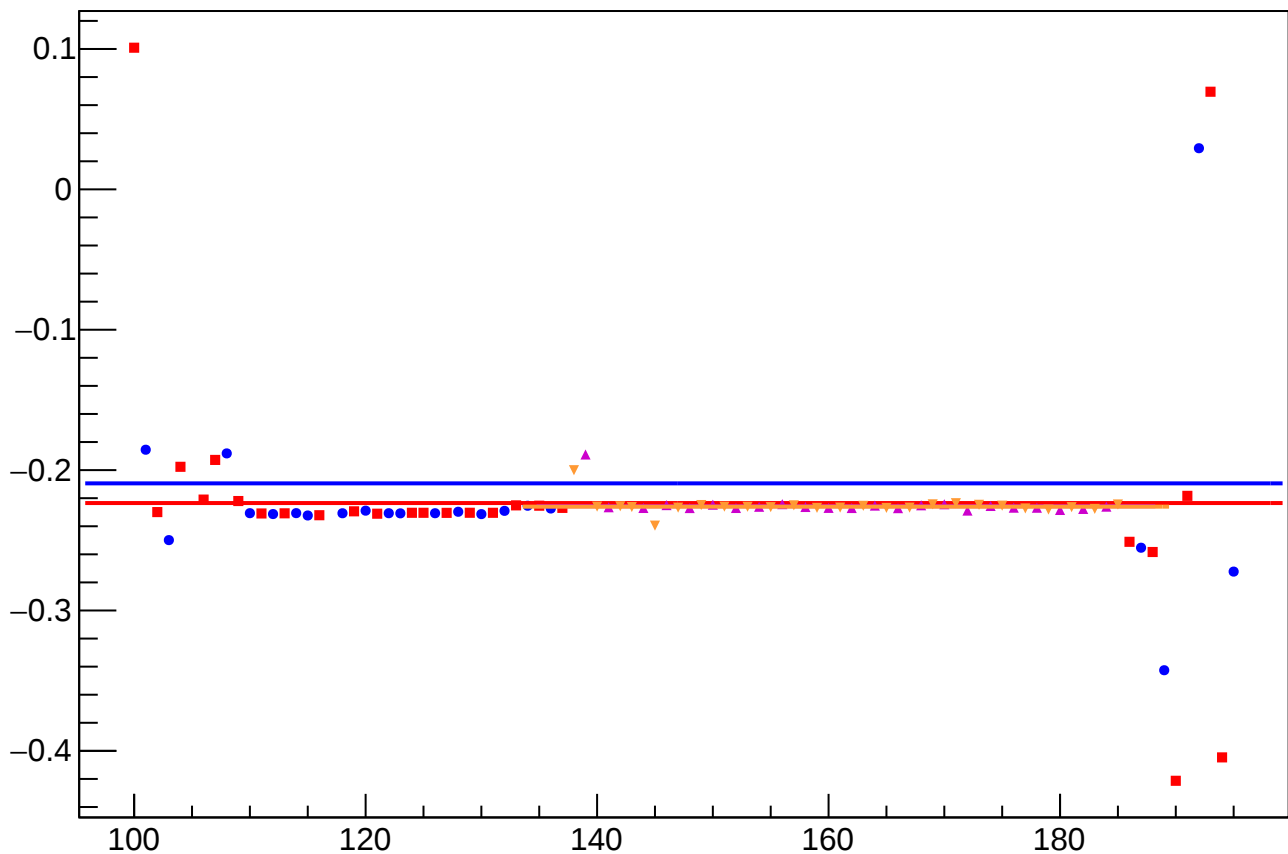
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 10365960.7/45

In: 0.010 $\pm$ 0.000 χ^2/NDF :5891042.7/43

Out: 0.011 $\pm$ 0.000 χ^2/NDF :7024139.9/49

All: 0.010 $\pm$ 0.000 χ^2/NDF : 12920713.5/93

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.209 ± 0.000 $\chi^2/\text{NDF}: 1962465038.6/20$

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 $\chi^2/\text{NDF}: 36480793.2/47$

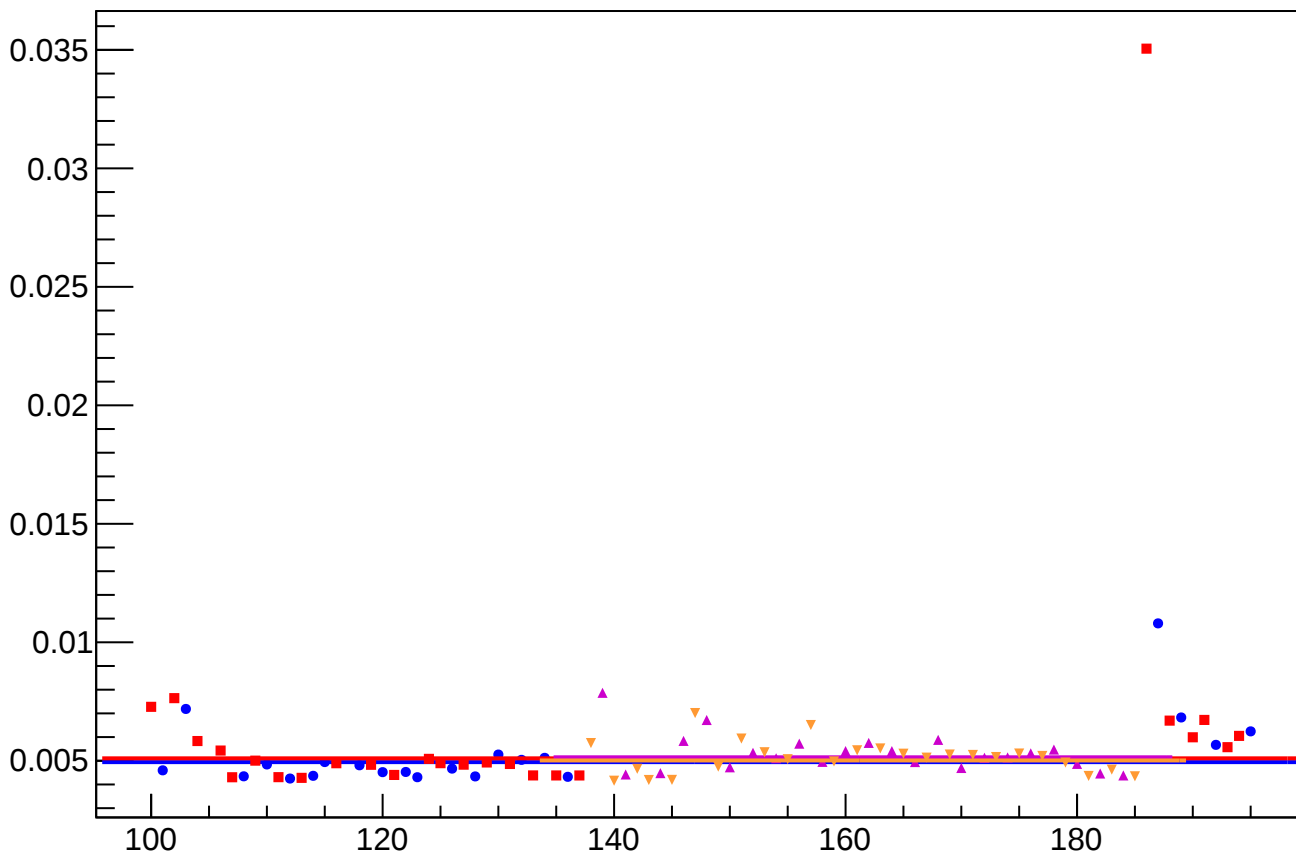
Right: -0.217 ± 0.000 $\chi^2/\text{NDF}: 5218893880.5/45$

In: -0.220 ± 0.000 $\chi^2/\text{NDF}: 2035063471.6/43$

Out: -0.225 ± 0.000 $\chi^2/\text{NDF}: 3245274112.9/49$

All: -0.223 ± 0.000 $\chi^2/\text{NDF}: 5293552003.3/9$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 468152.1/20

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

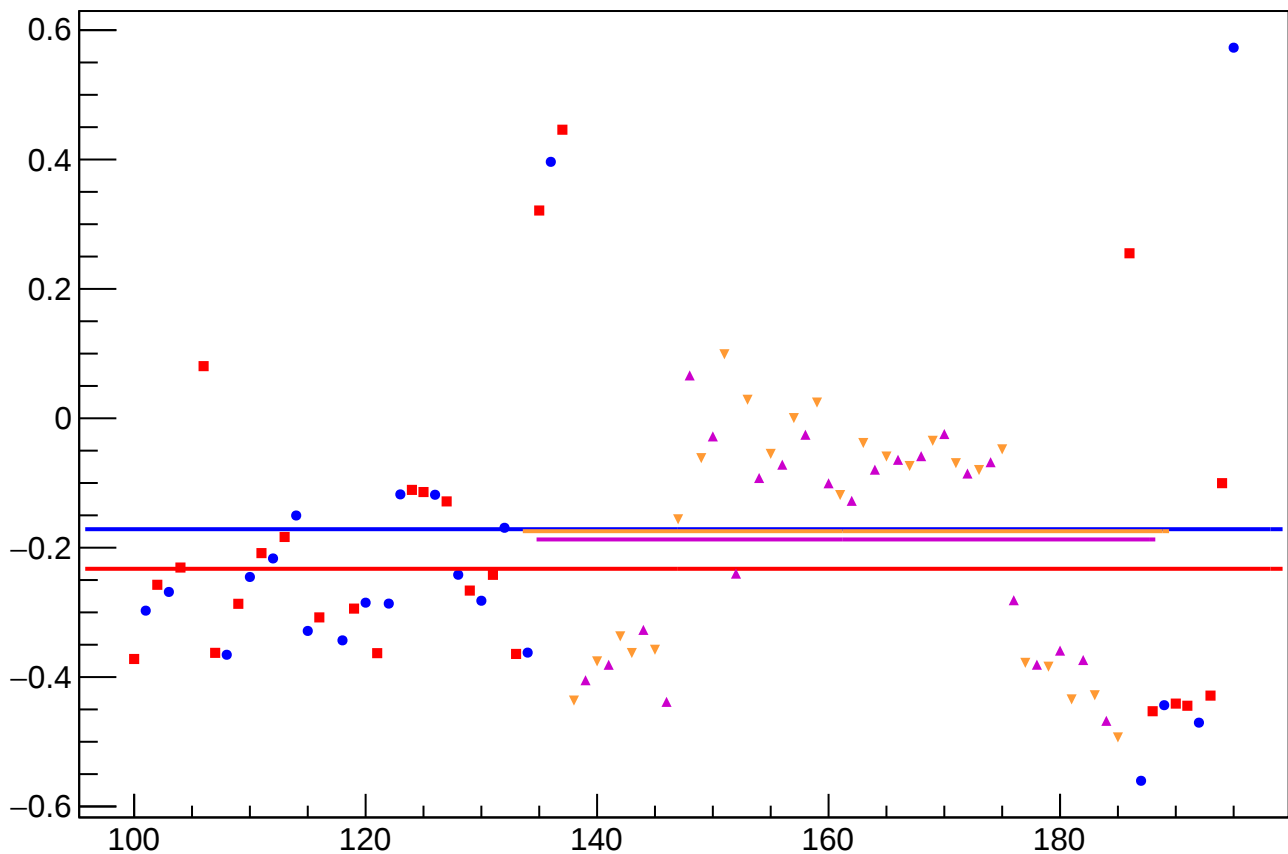
Right: 0.005+/-0.000 χ^2/NDF : 1486346.4/45

In: 0.005+/-0.000 χ^2/NDF :979097.8/43

Out: 0.005+/-0.000 χ^2/NDF :1543780.4/49

All: 0.005+/-0.000 χ^2/NDF : 2523808.2/93

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 19437142451.7/20

Left Out: -0.174+/-0.000 χ^2/NDF : 18025533236.1/24

Right Out: -0.233+/-0.000 χ^2/NDF : 9426365107.8/24

Left In: -0.187+/-0.000 χ^2/NDF : 12816646575.4/22

Left: -0.181+/-0.000 χ^2/NDF : 30888184231.6/47

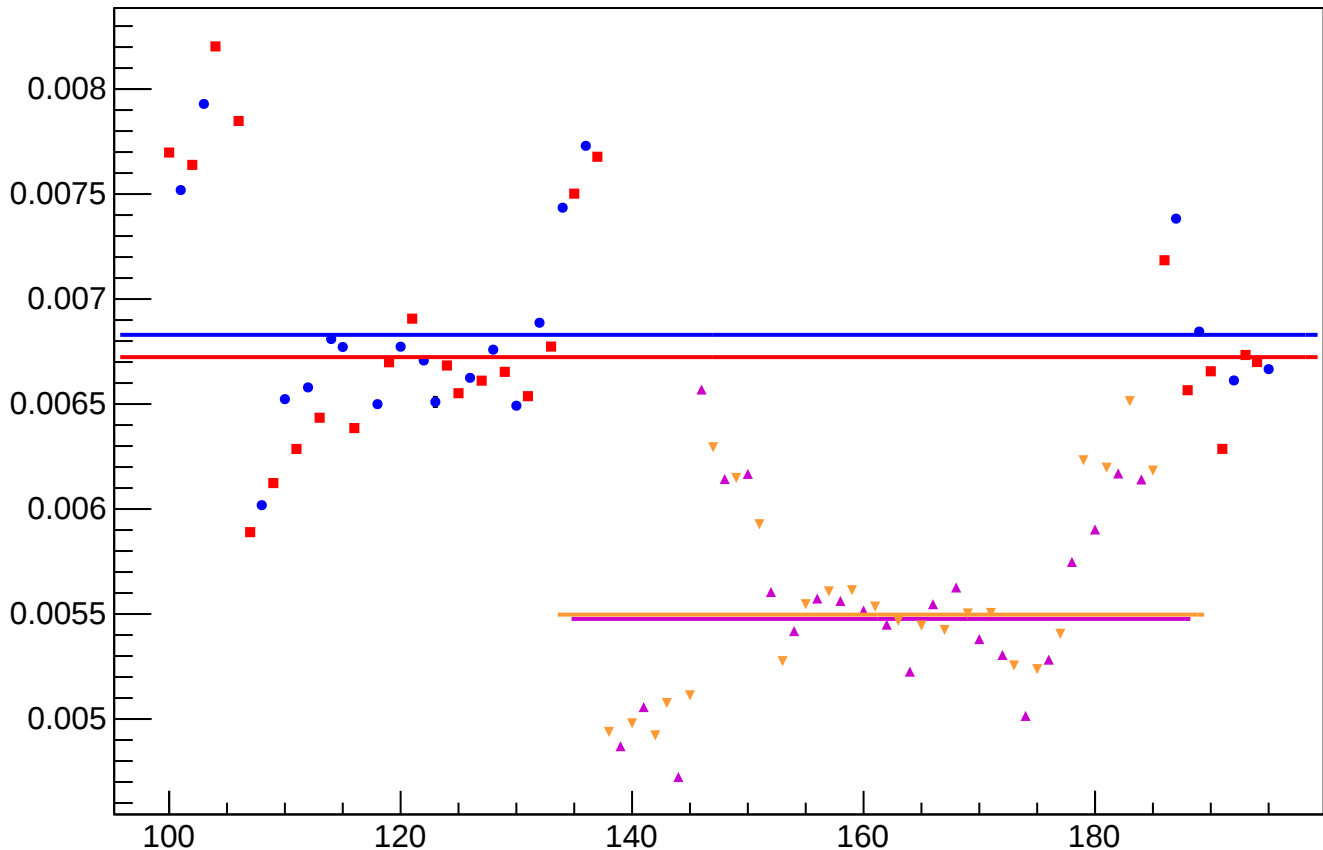
Right: -0.205+/-0.000 χ^2/NDF : 29251659994.9/45

In: -0.183+/-0.000 χ^2/NDF : 32289376679.1/43

Out: -0.191+/-0.000 χ^2/NDF : 28002642277.4/49

All: -0.187+/-0.000 χ^2/NDF : 60314835990.4/100

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 83788.3/20

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

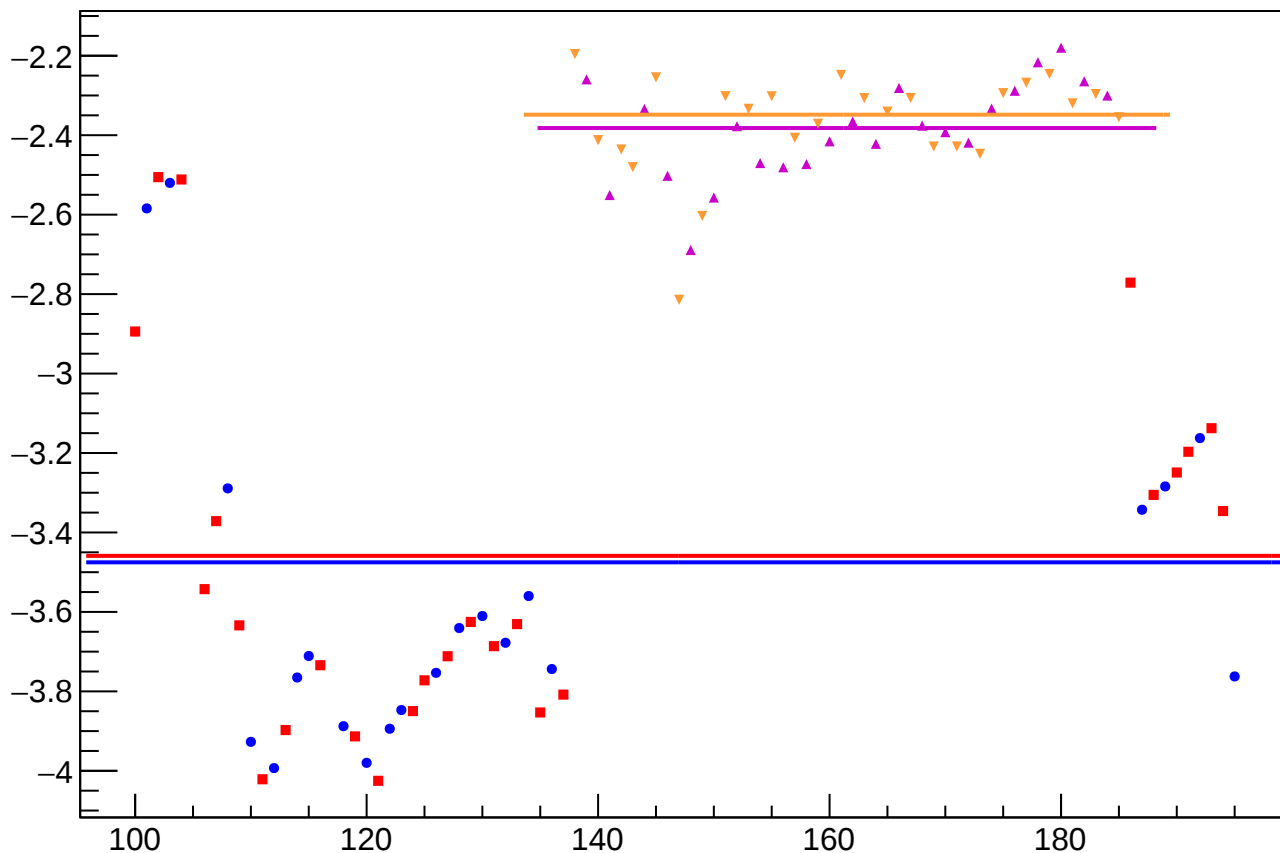
Right: 0.007+/-0.000 χ^2/NDF : 198383.8/45

In: 0.006+/-0.000 χ^2/NDF :803471.4/43

Out: 0.006+/-0.000 χ^2/NDF :800991.6/49

All: 0.006+/-0.000 χ^2/NDF : 1604679.6/93

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.475+/-0.000 χ^2/NDF : 28466016759.3/20

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.459+/-0.000 χ^2/NDF : 29151012249.3/24

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

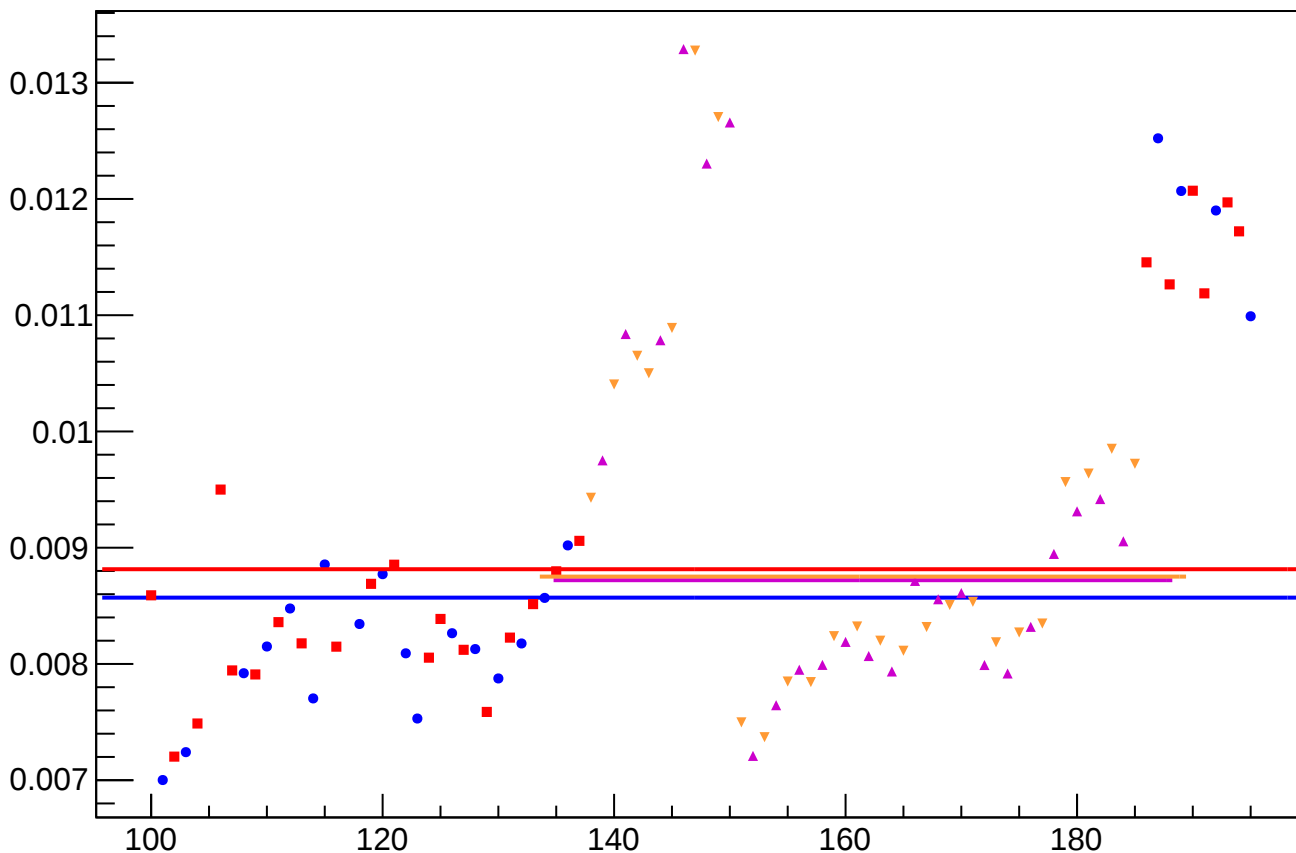
Right: -3.467+/-0.000 χ^2/NDF : 57633255391.6/45

In: -2.770+/-0.000 χ^2/NDF : 121220496327.0/43

Out: -2.750+/-0.000 χ^2/NDF : 131557597723.4/49

All: -2.759+/-0.000 χ^2/NDF : 252846186259.2

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 453403.9/20

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

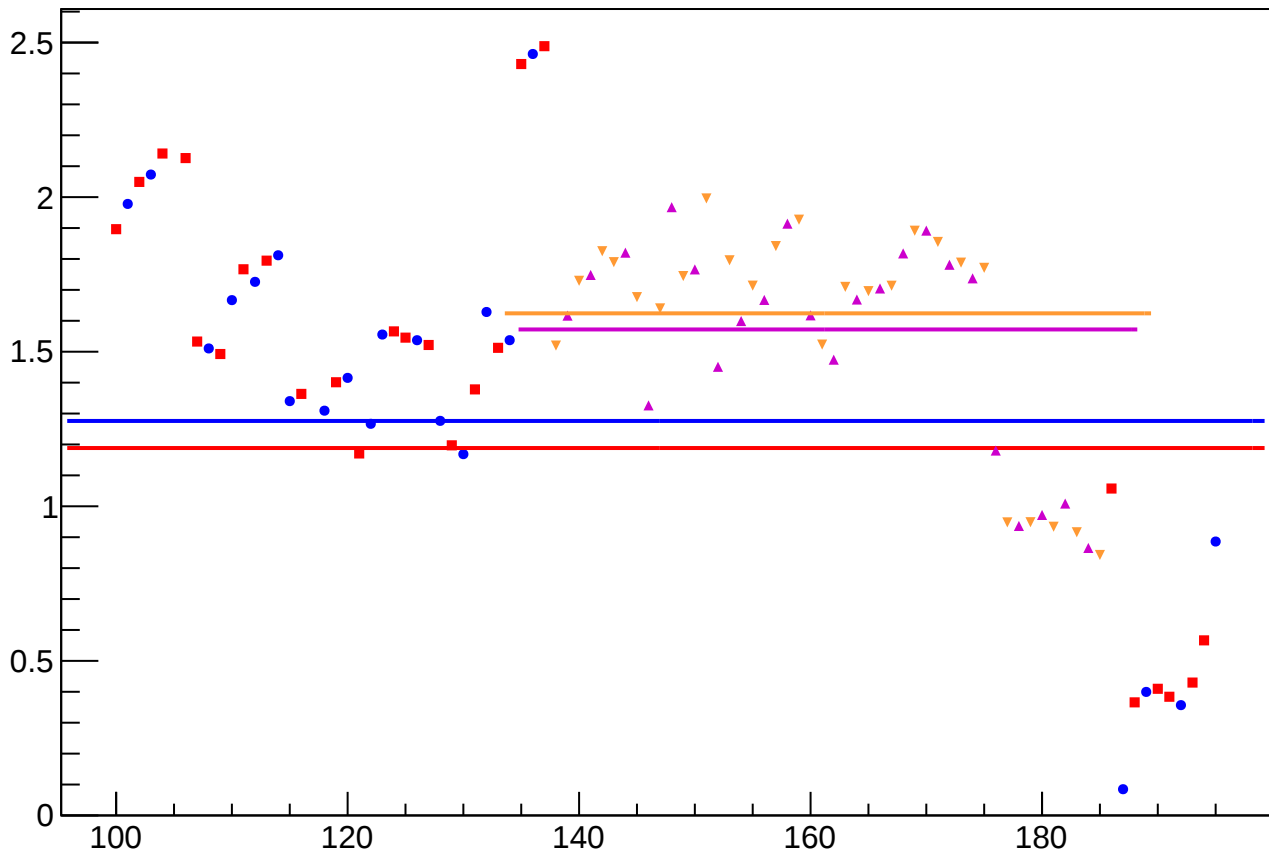
Right: 0.009+/-0.000 χ^2/NDF : 1010169.3/45

In: 0.009+/-0.000 χ^2/NDF : 1204676.9/43

Out: 0.009+/-0.000 χ^2/NDF : 1213800.9/49

All: 0.009+/-0.000 χ^2/NDF : 2422387.3/93

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.276+/-0.000 χ^2/NDF : 25493566772.4/20

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

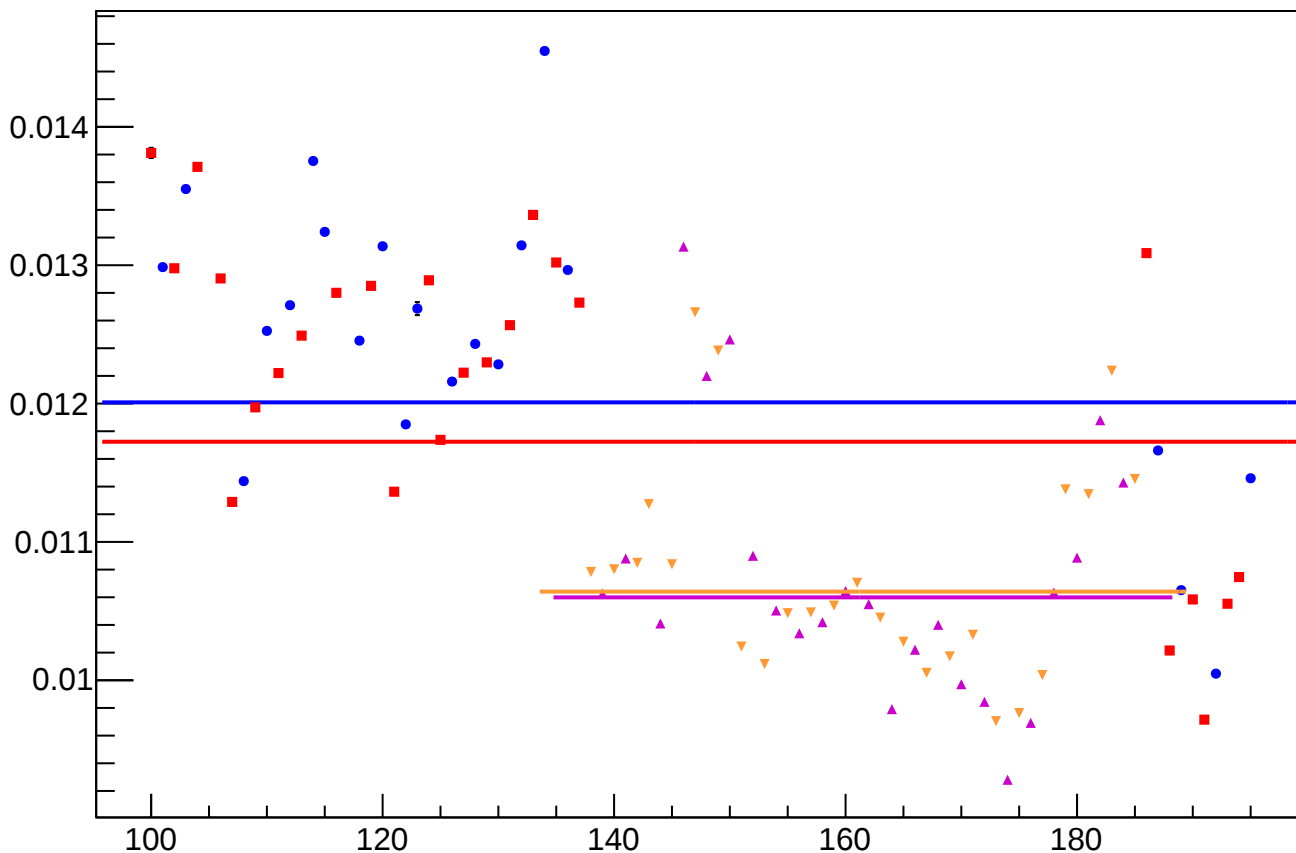
Right: 1.228+/-0.000 χ^2/NDF : 57412345349.8/45

In: 1.485+/-0.000 χ^2/NDF : 43509602774.7/43

Out: 1.484+/-0.000 χ^2/NDF : 57813861159.7/49

All: 1.485+/-0.000 χ^2/NDF : 101323667150.4

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 154833.1/20

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:159760.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 195257.2/24

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:204531.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 364556.9/47

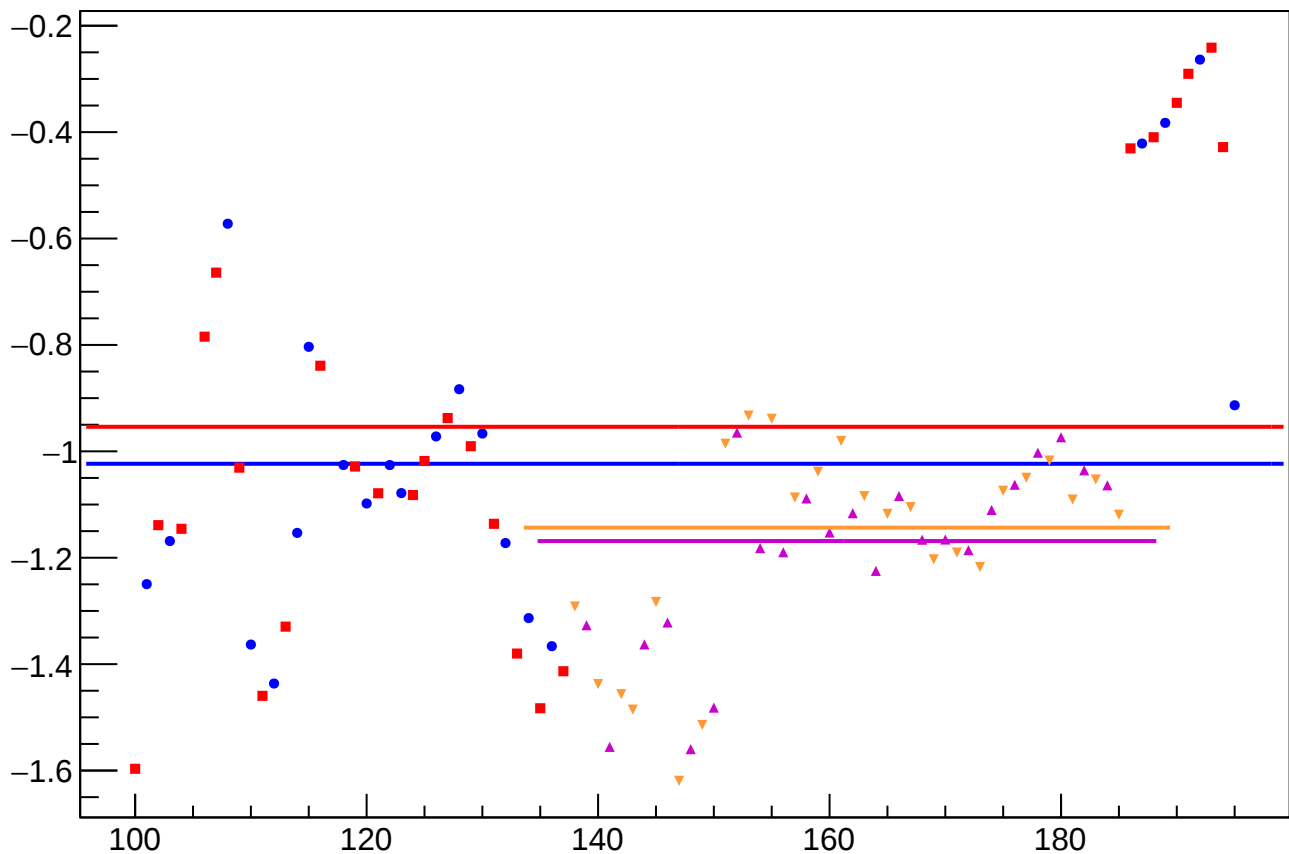
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 355509.7/45

In: 0.011 $\pm$ 0.000 χ^2 /NDF:531128.6/43

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:472745.8/49

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1003984.0/93

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.023+/-0.000 χ^2/NDF : 10141114693.3/20

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

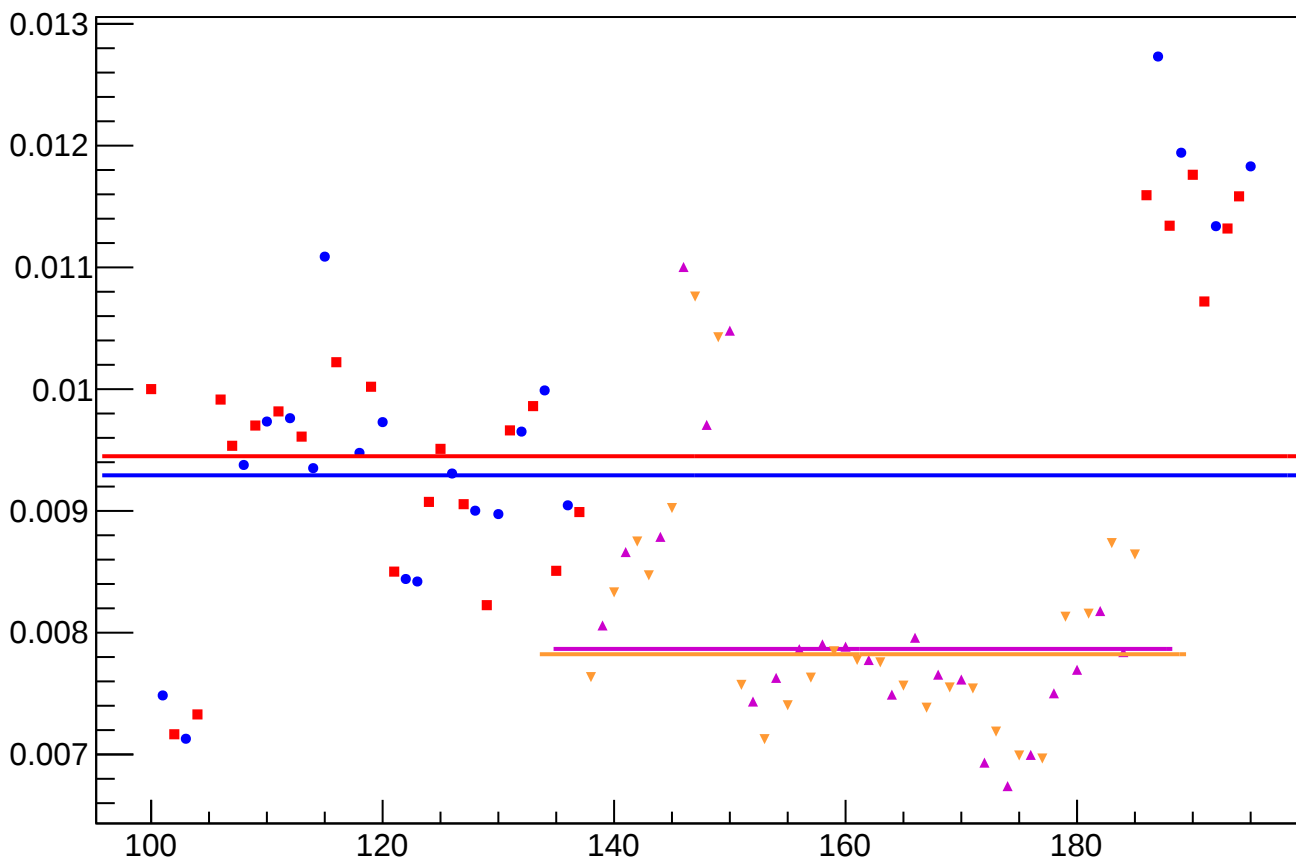
Right: -0.987+/-0.000 χ^2/NDF : 25944308709.0/45

In: -1.129+/-0.000 χ^2/NDF : 18017078605.2/43

Out: -1.090+/-0.000 χ^2/NDF : 26366307362.2/49

All: -1.109+/-0.000 χ^2/NDF : 44667446987.2/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 390463.0/20

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

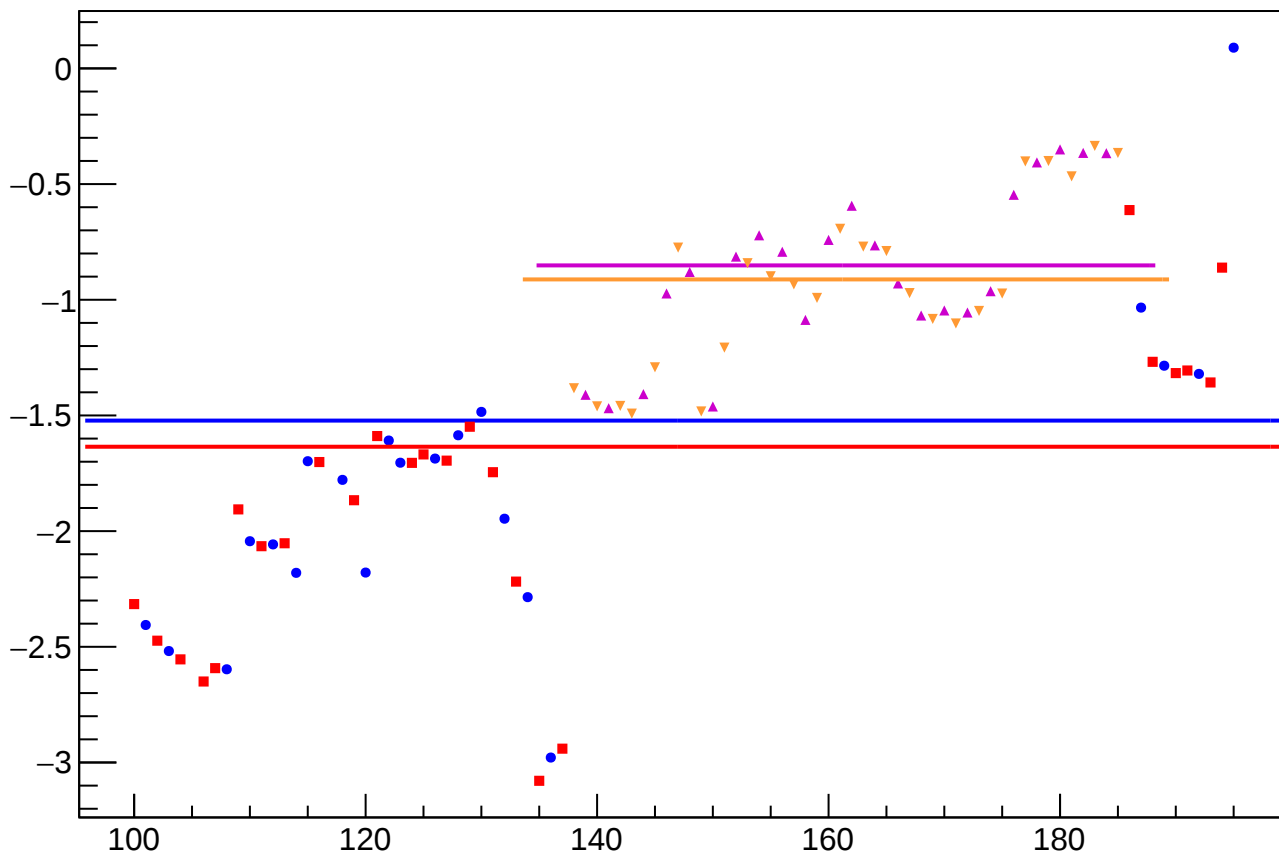
Right: 0.009+/-0.000 χ^2/NDF : 829507.6/45

In: 0.008+/-0.000 χ^2/NDF :1062067.1/43

Out: 0.008+/-0.000 χ^2/NDF :1190617.5/49

All: 0.008+/-0.000 χ^2/NDF : 2252915.5/93

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -1.522+/-0.000 χ^2/NDF : 157392970806.5/20

Left Out: -0.912+/-0.000 χ^2/NDF : 49039425818.1/24

Right Out: -1.635+/-0.000 χ^2/NDF : 100087189447.8/24

Left In: -0.851+/-0.000 χ^2/NDF : 46438446008.2/22

Left: -0.882+/-0.000 χ^2/NDF : 96285672564.6/47

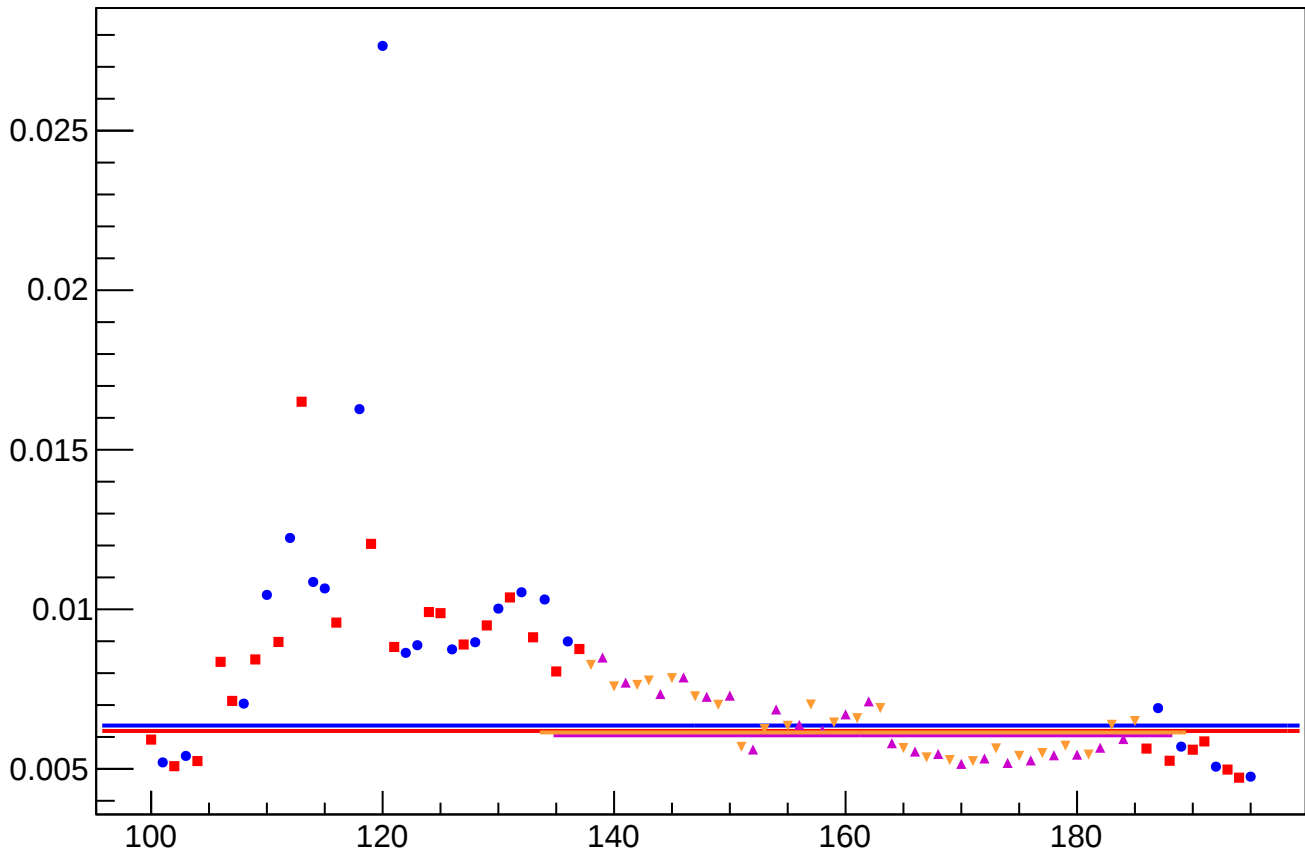
Right: -1.586+/-0.000 χ^2/NDF : 258716647136.5/45

In: -1.041+/-0.000 χ^2/NDF : 259219067020.8/43

Out: -1.153+/-0.000 χ^2/NDF : 226647473691.7/49

All: -1.100+/-0.000 χ^2/NDF : 489821971083.1

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1763263.1/20

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

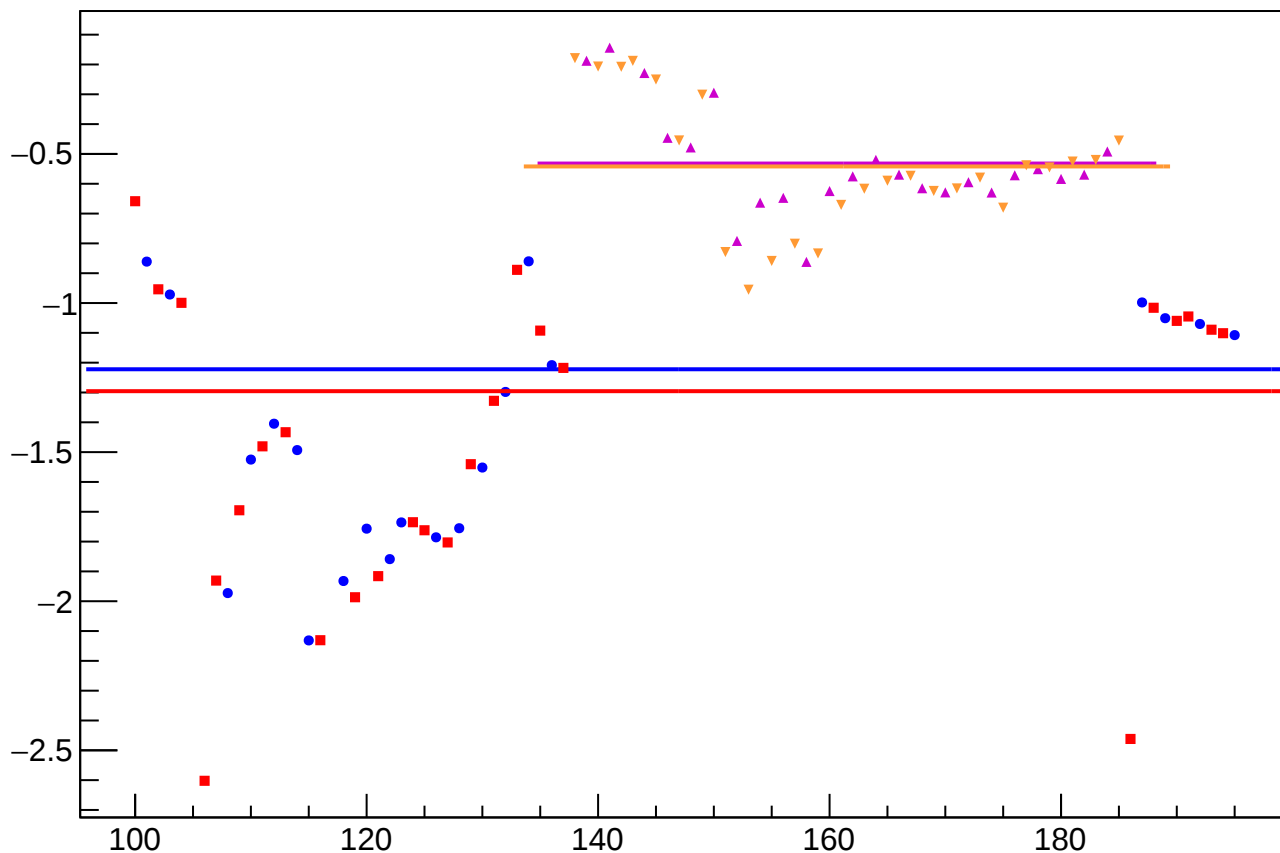
Right: 0.006+/-0.000 χ^2/NDF : 3338974.4/45

In: 0.006+/-0.000 χ^2/NDF : 2483804.3/43

Out: 0.006+/-0.000 χ^2/NDF : 2208573.0/49

All: 0.006+/-0.000 χ^2/NDF : 4692598.1/93

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.222 ± 0.000 $\chi^2/\text{NDF}: 26144013410.9/20$

Left Out: -0.542 ± 0.000 $\chi^2/\text{NDF}: 47268284910.3/24$

Right Out: -1.296 ± 0.000 $\chi^2/\text{NDF}: 76840607576.6/24$

Left In: -0.532 ± 0.000 $\chi^2/\text{NDF}: 30715235426.8/22$

Left: -0.537 ± 0.000 $\chi^2/\text{NDF}: 78028833870.1/47$

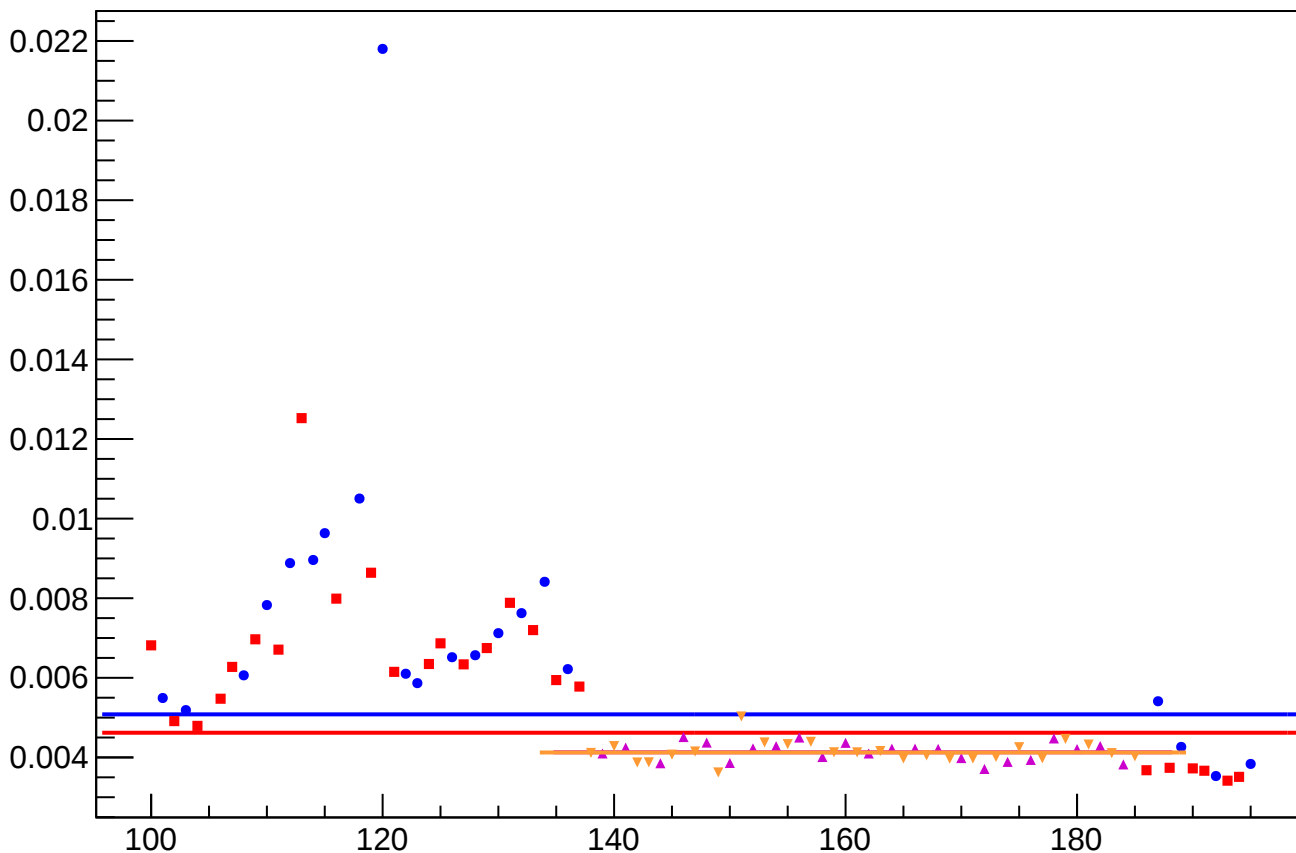
Right: -1.265 ± 0.000 $\chi^2/\text{NDF}: 103846687987.0/45$

In: -0.687 ± 0.000 $\chi^2/\text{NDF}: 157011790205.5/43$

Out: -0.754 ± 0.000 $\chi^2/\text{NDF}: 282436718815.3/49$

All: -0.723 ± 0.000 $\chi^2/\text{NDF}: 442295164028.5$

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1569713.9/20

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1695960.9/24

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

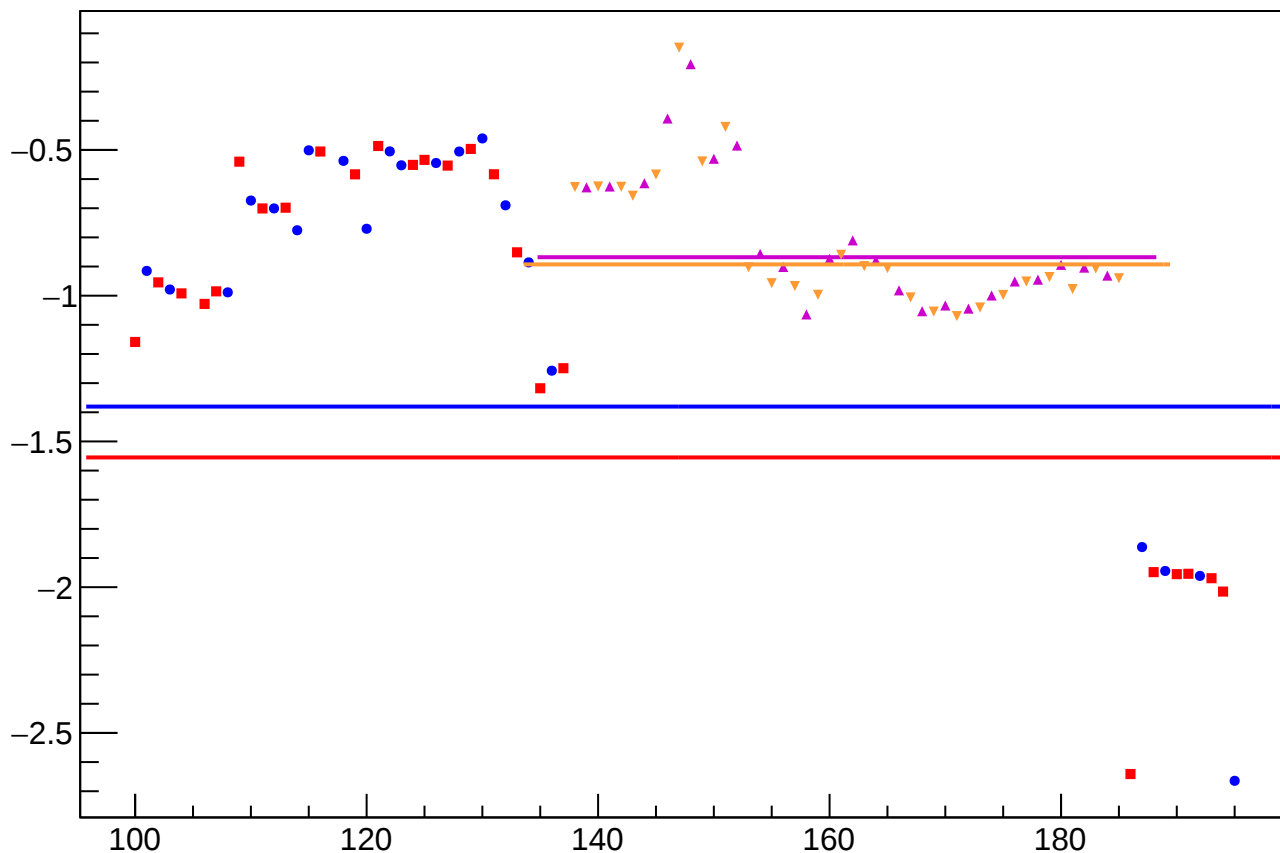
Right: 0.005+/-0.000 χ^2/NDF : 3333815.9/45

In: 0.004+/-0.000 χ^2/NDF :2044557.1/43

Out: 0.004+/-0.000 χ^2/NDF :1945985.6/49

All: 0.004+/-0.000 χ^2/NDF : 3998783.6/93

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.380+/-0.000

χ^2/NDF : 152367692270.8/20

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

Right: -1.485+/-0.000

χ^2/NDF : 391526524618.3/45

Right Out: -1.555+/-0.000

χ^2/NDF : 232343230798.4/24

In: -0.996+/-0.000

χ^2/NDF : 269470591050.0/43

Out: -1.113+/-0.000

χ^2/NDF : 437592675610.8/49

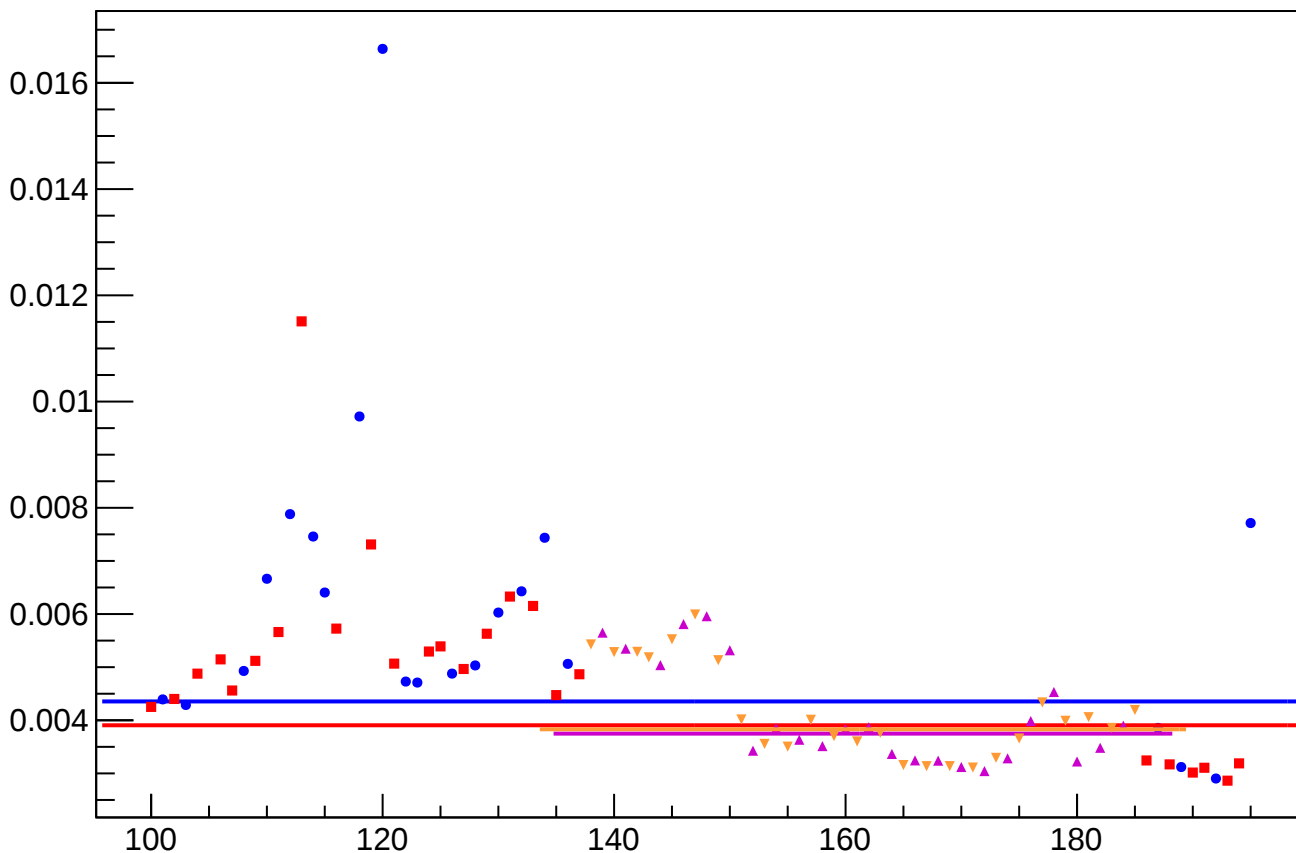
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.058+/-0.000

χ^2/NDF : 717924976415.5

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1861712.5/20

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

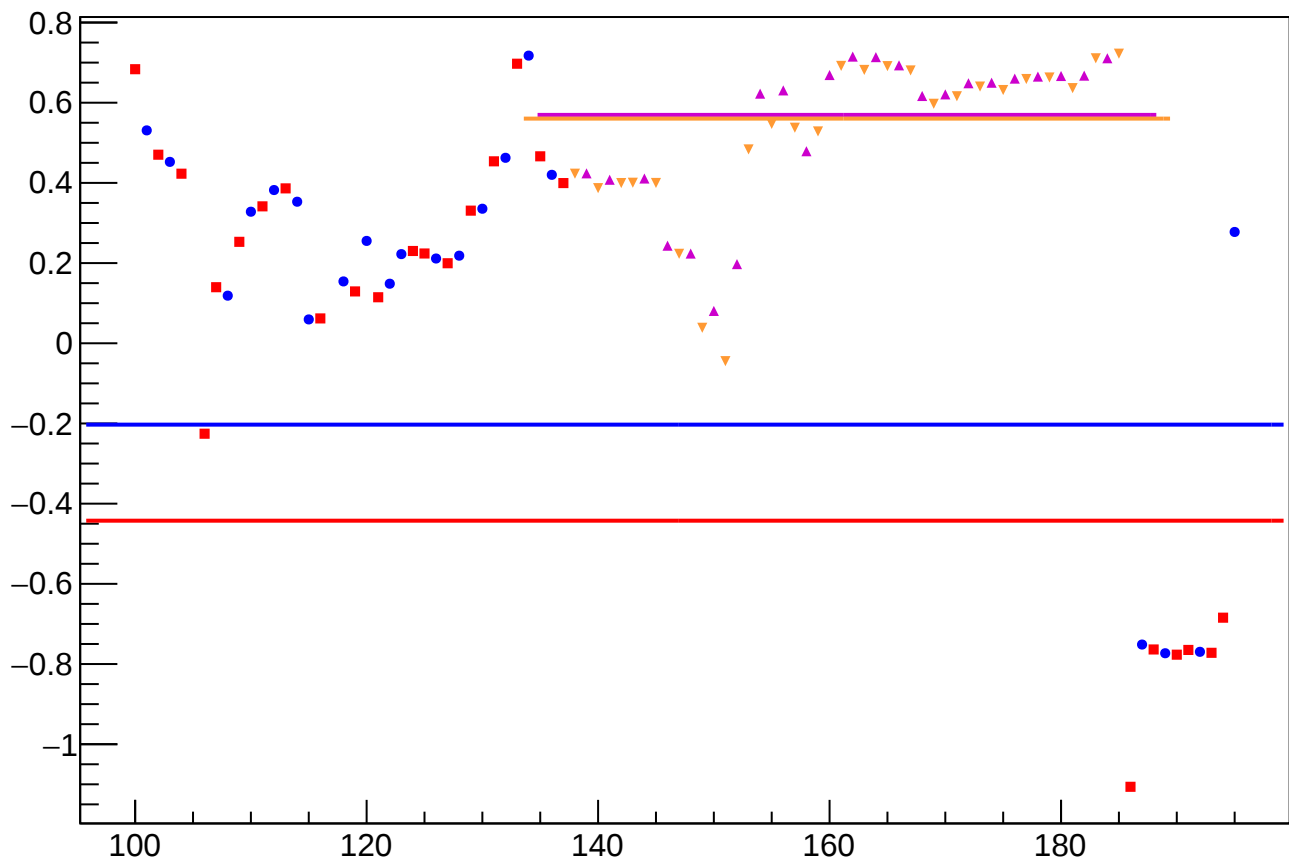
Right: 0.004+/-0.000 χ^2/NDF : 3497201.0/45

In: 0.004+/-0.000 χ^2/NDF : 3354970.9/43

Out: 0.004+/-0.000 χ^2/NDF : 2729364.8/49

All: 0.004+/-0.000 χ^2/NDF : 6087475.1/93

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.203+/-0.000 χ^2/NDF : 244534437144.7/20

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

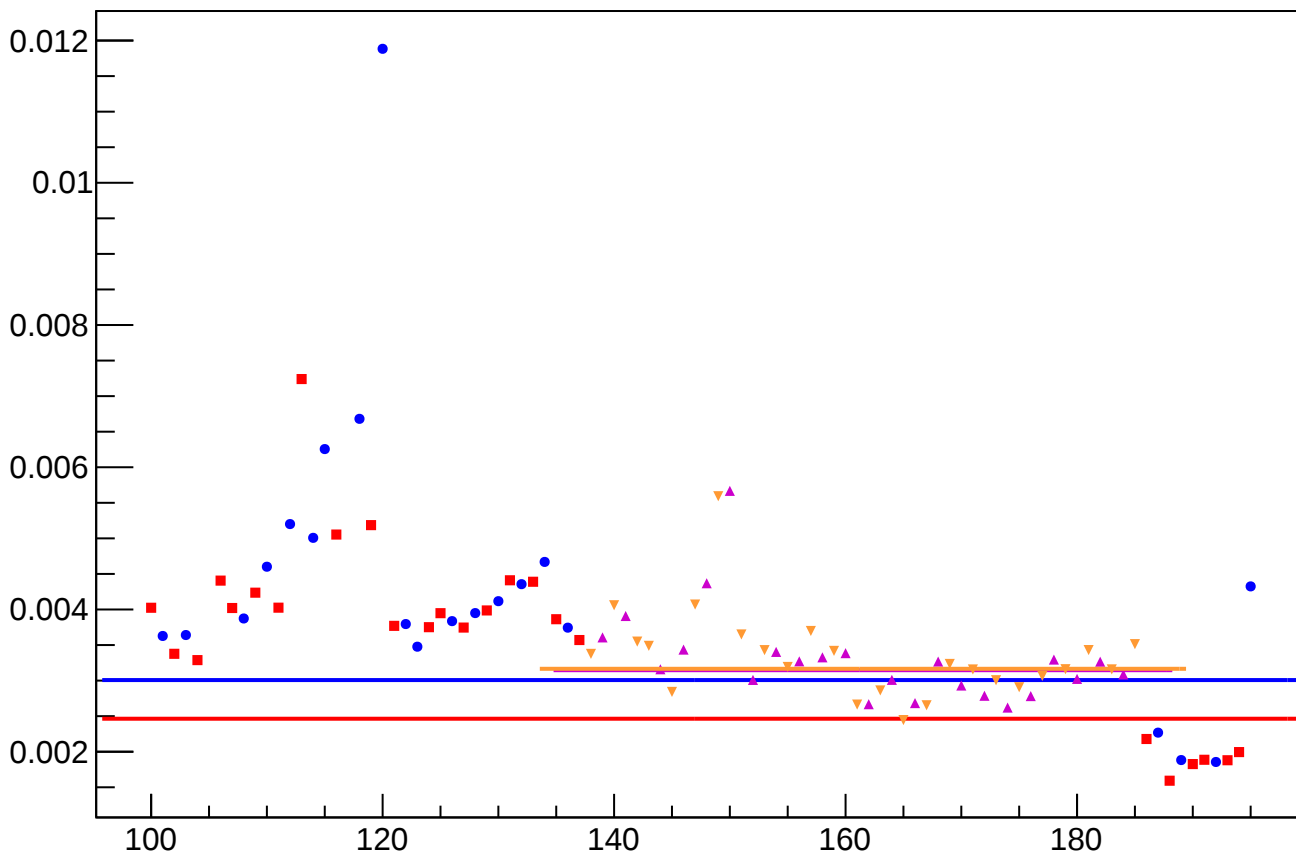
Right: -0.353+/-0.000 χ^2/NDF : 631156240518.7/45

In: 0.315+/-0.000 χ^2/NDF : 593182517045.8/43

Out: 0.114+/-0.000 χ^2/NDF : 1128192285835.7/49

All: 0.203+/-0.000 χ^2/NDF : 1773404434257.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2312864.0/20

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 : 5379169.6/45

In: 0.003+/-0.000 χ^2/NDF : 3049060.1/43

Out: 0.003+/-0.000 χ^2/NDF : 4236375.5/49

All: 0.003+/-0.000 χ^2/NDF : 7442958.3/93

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000 χ^2/NDF : 5626542004.2/20

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: -0.022+/-0.000 χ^2/NDF : 6731966498.9/24

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

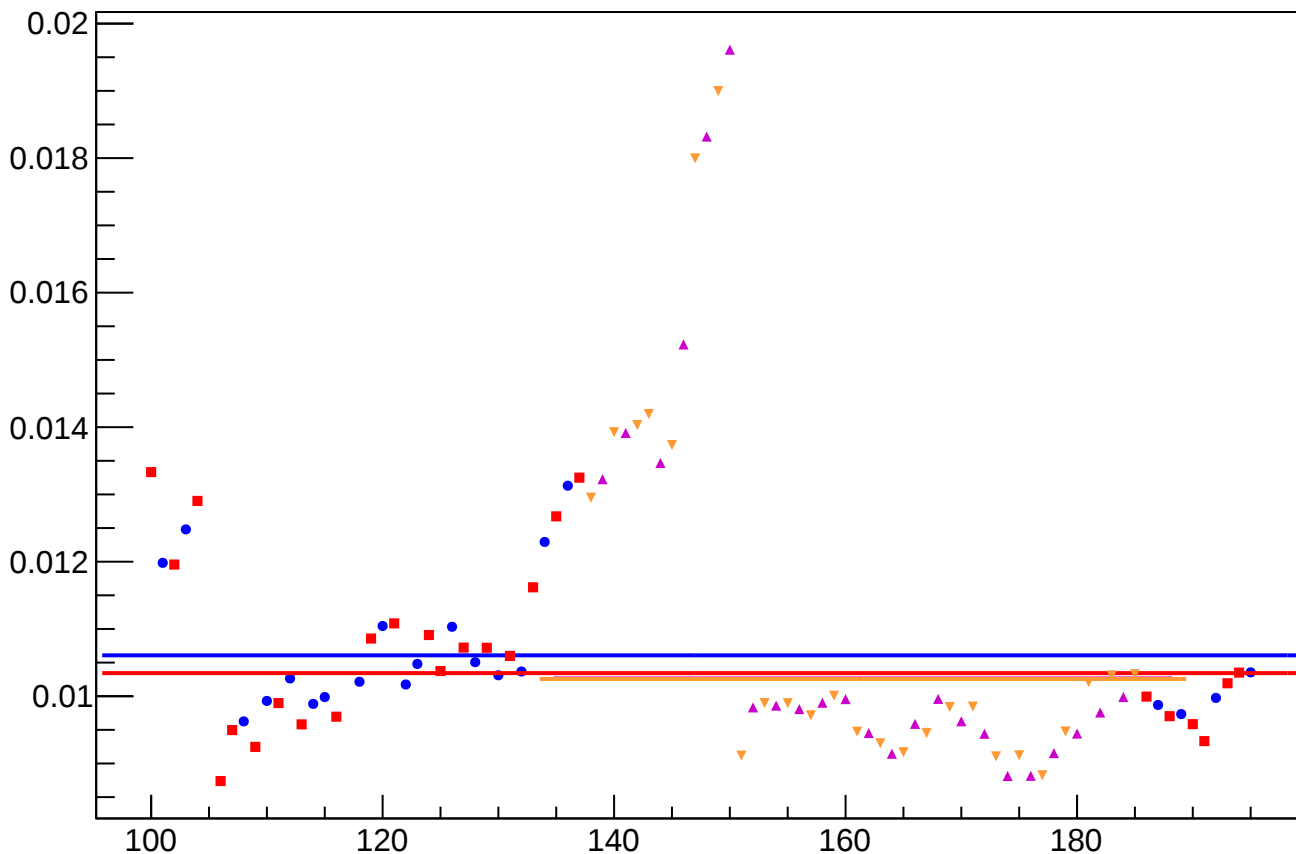
Right: -0.025+/-0.000 χ^2/NDF : 12360934231.8/45

In: -1.461+/-0.000 χ^2/NDF : 254747864316.0/43

Out: -1.389+/-0.000 χ^2/NDF : 298137621629.7/49

All: -1.423+/-0.000 χ^2/NDF : 553530332779.3

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 148113.1/20

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

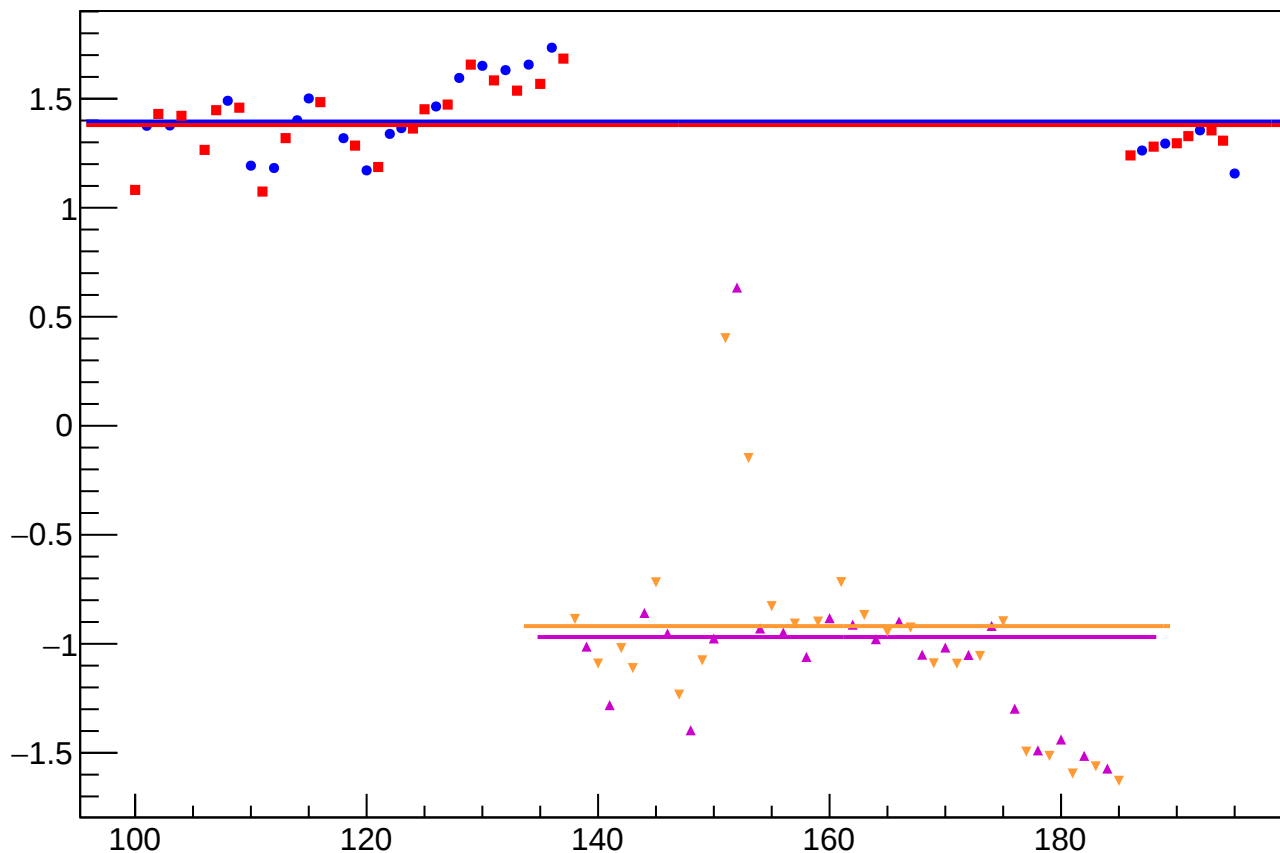
Right: 0.010+/-0.000 χ^2/NDF : 358740.1/45

In: 0.010+/-0.000 χ^2/NDF :1500859.3/43

Out: 0.010+/-0.000 χ^2/NDF :1476059.9/49

All: 0.010+/-0.000 χ^2/NDF : 2979023.1/93

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.395+/-0.000 χ^2/NDF : 4685200826.1/20

Left Out: -0.919+/-0.000 χ^2/NDF : 55622252895.8/24

Right Out: 1.379+/-0.000 χ^2/NDF : 3288813218.2/24

Left In: -0.969+/-0.000 χ^2/NDF : 54895002535.8/22

Left: -0.943+/-0.000 χ^2/NDF : 110825900215.1/47

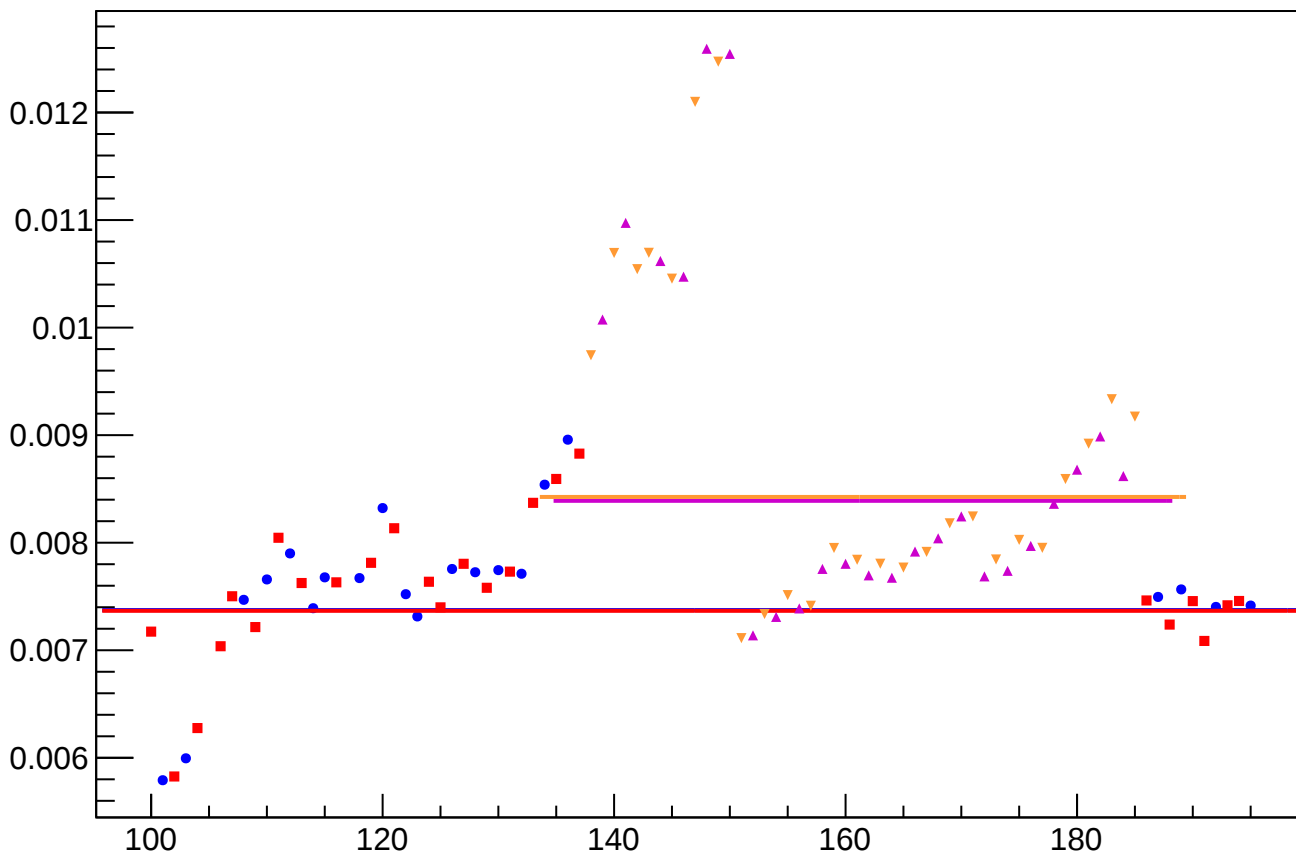
Right: 1.387+/-0.000 χ^2/NDF : 7997135892.0/45

In: -0.009+/-0.000 χ^2/NDF : 603243242762.3/43

Out: 0.074+/-0.000 χ^2/NDF : 634421635949.4/49

All: 0.035+/-0.000 χ^2/NDF : 1239124295282.0/96

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 229589.7/20

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

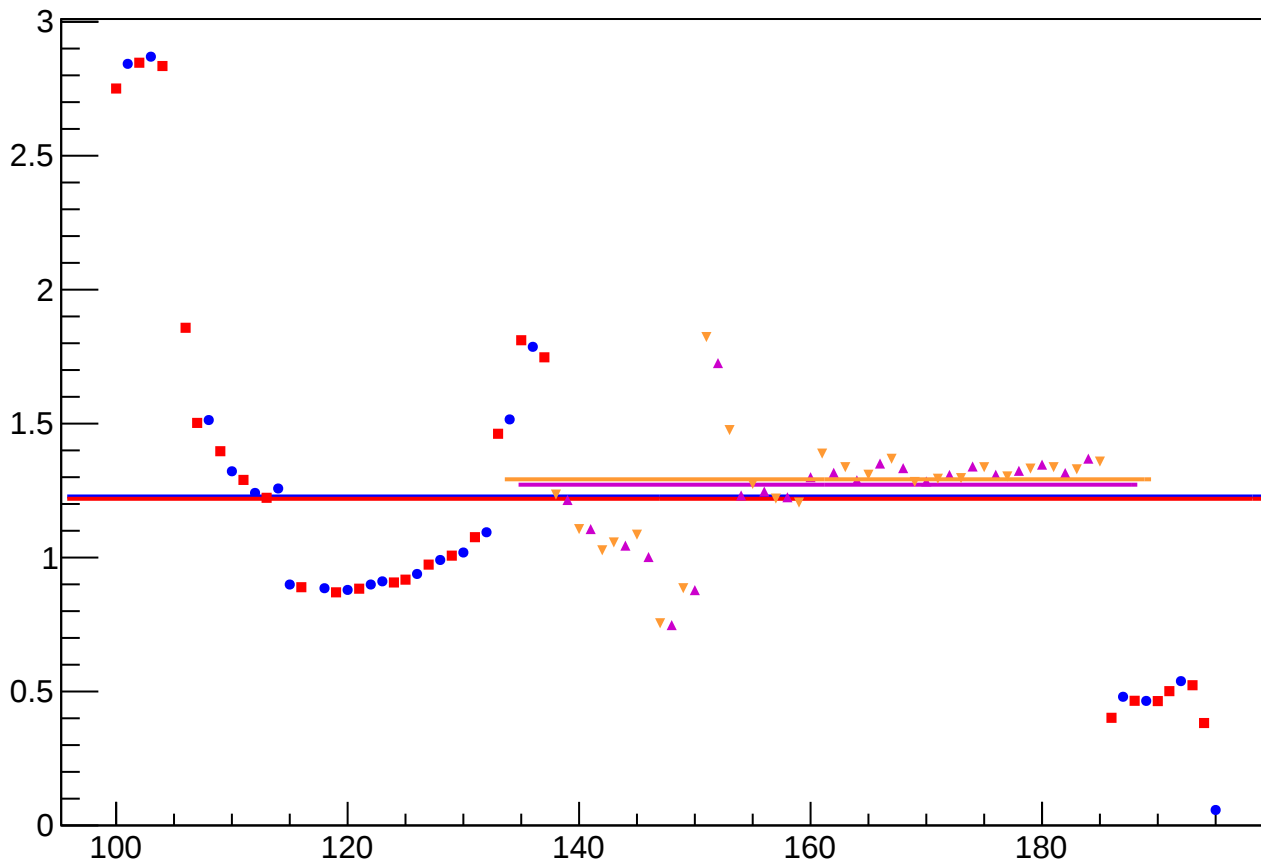
Right: 0.007+/-0.000 χ^2/NDF : 403928.3/45

In: 0.008+/-0.000 χ^2/NDF : 1270258.6/43

Out: 0.008+/-0.000 χ^2/NDF : 1210956.2/49

All: 0.008+/-0.000 χ^2/NDF : 2481248.4/93

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.228 $\pm$ 0.000 χ^2 /NDF: 76134493463.8/20

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

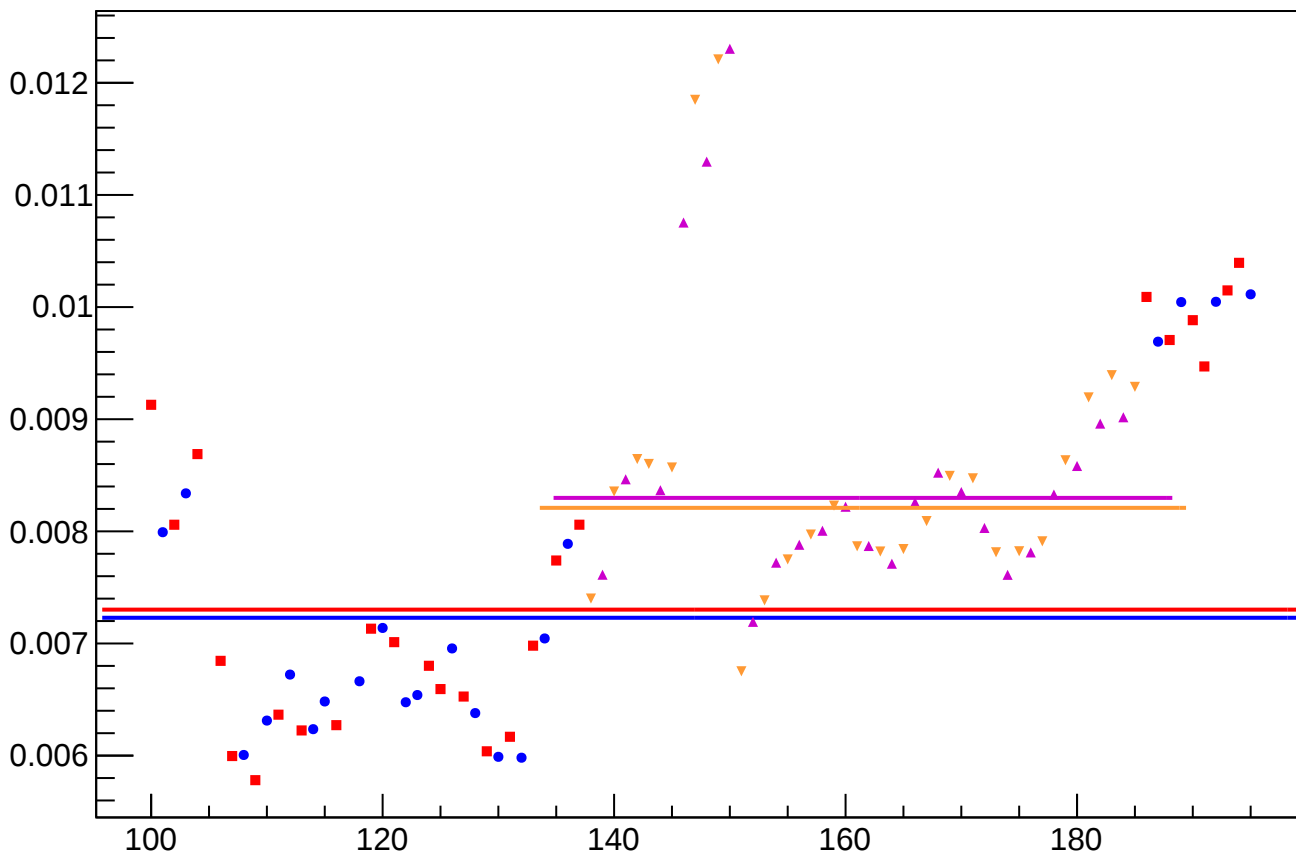
Right: 1.223 $\pm$ 0.000 χ^2 /NDF: 150673783635.5/45

In: 1.254 $\pm$ 0.000 χ^2 /NDF: 83900480492.7/43

Out: 1.262 $\pm$ 0.000 χ^2 /NDF: 84420380644.4/49

All: 1.258 $\pm$ 0.000 χ^2 /NDF: 168333145985.9

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 592133.9/20

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

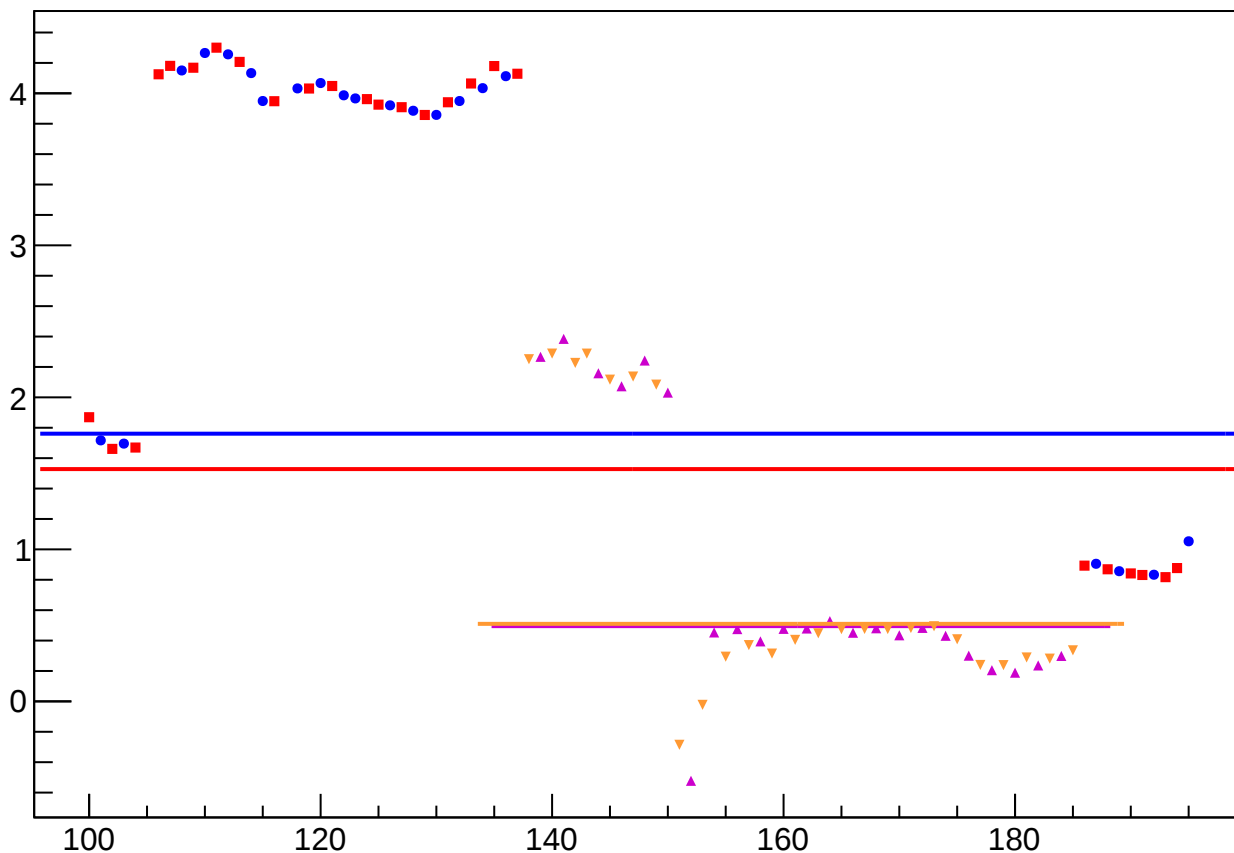
Right: 0.007+/-0.000 χ^2/NDF : 1397148.4/45

In: 0.008+/-0.000 χ^2/NDF : 1280784.5/43

Out: 0.008+/-0.000 χ^2/NDF : 1464414.5/49

All: 0.008+/-0.000 χ^2/NDF : 2745690.7/93

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.761+/-0.000 χ^2/NDF : 1251451421090.9/20

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

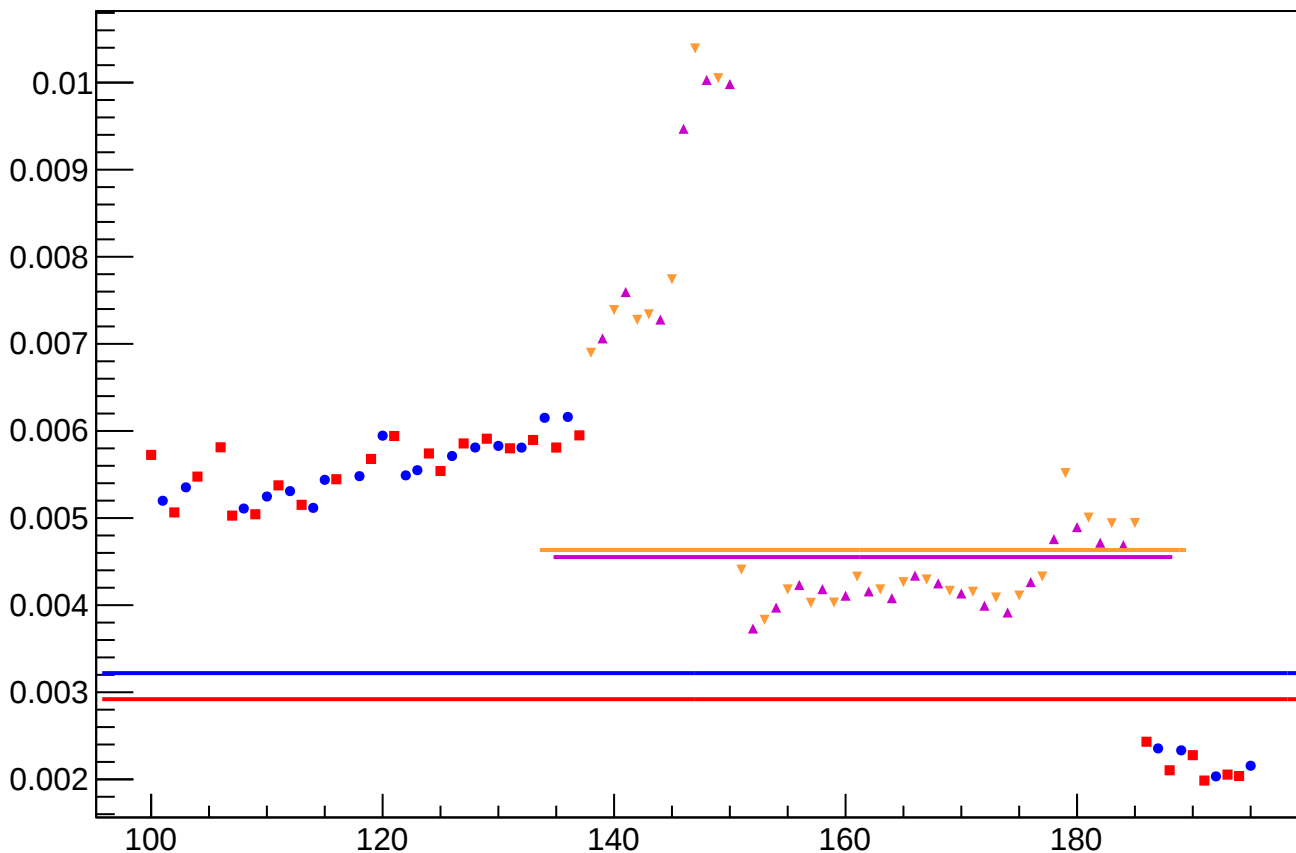
Right: 1.625+/-0.000 χ^2/NDF : 2832657719805.5/45

In: 1.096+/-0.000 χ^2/NDF : 2096485714080.5/43

Out: 1.071+/-0.000 χ^2/NDF : 2278156960698.4/49

All: 1.082+/-0.000 χ^2/NDF : 4375110931086.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3512272.2/20

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4096058.9/24

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

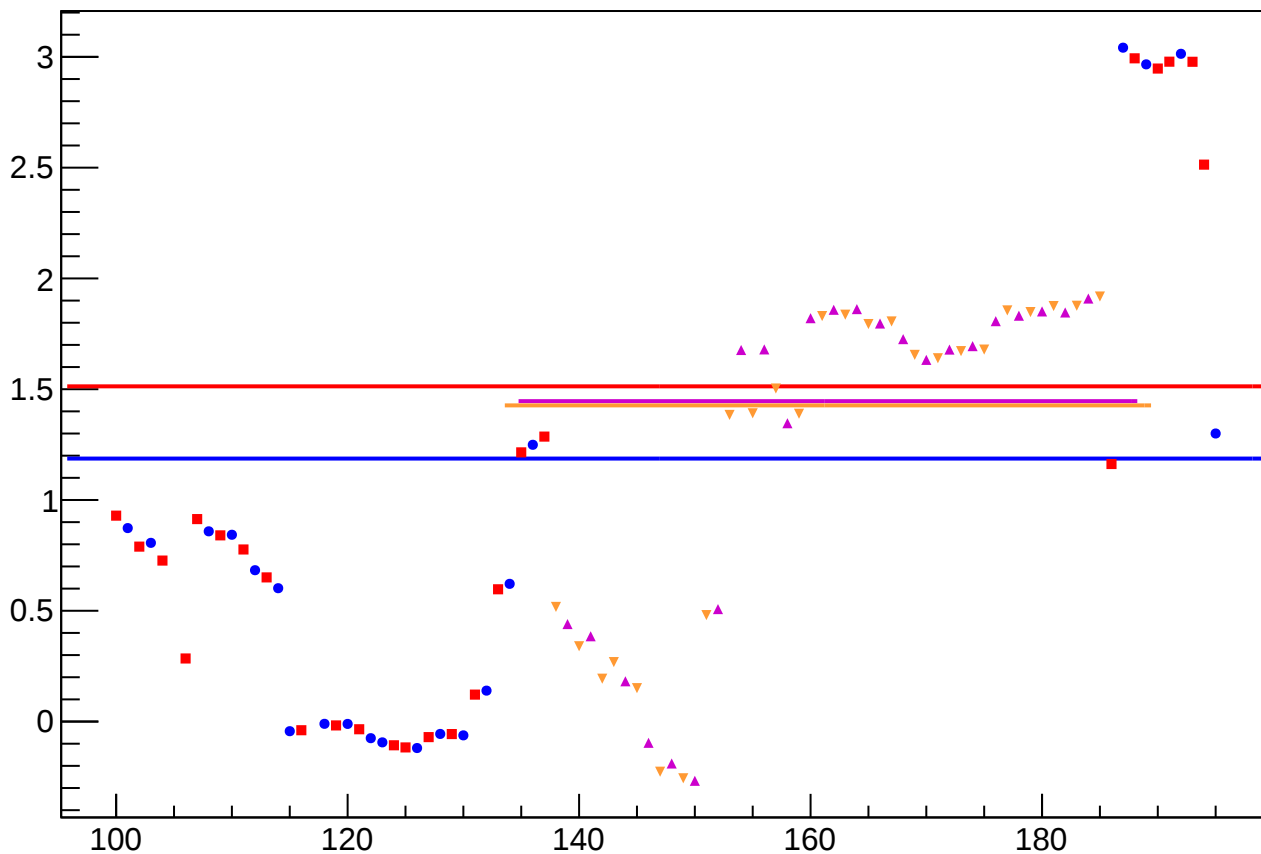
Right: 0.003+/-0.000 χ^2/NDF : 7679621.9/45

In: 0.004+/-0.000 χ^2/NDF :7026555.9/43

Out: 0.004+/-0.000 χ^2/NDF :8720665.2/49

All: 0.004+/-0.000 χ^2/NDF : 15831150.4/93

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.187+/-0.000

χ^2/NDF : 72589745293.8/20

Left: 1.436+/-0.000

χ^2/NDF : 103768857952.7/47

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

Right: 1.368+/-0.000

χ^2/NDF : 172909493487.4/45

Right Out: 1.513+/-0.000

χ^2/NDF : 97303779695.2/24

In: 1.376+/-0.000

χ^2/NDF : 128845817011.8/43

Out: 1.454+/-0.000

χ^2/NDF : 147619753465.4/49

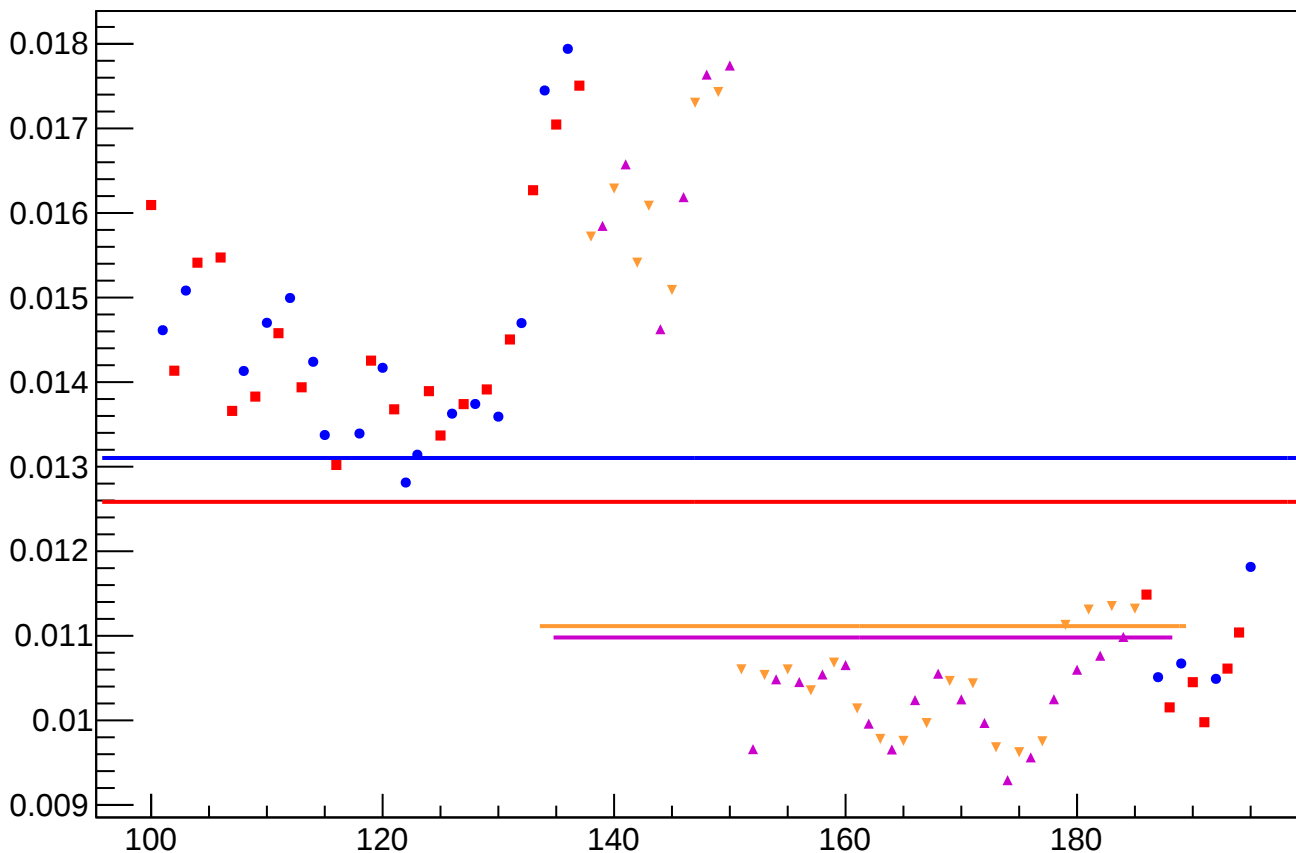
Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

All: 1.416+/-0.000

χ^2/NDF : 277061315516.3

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 420793.5/20

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

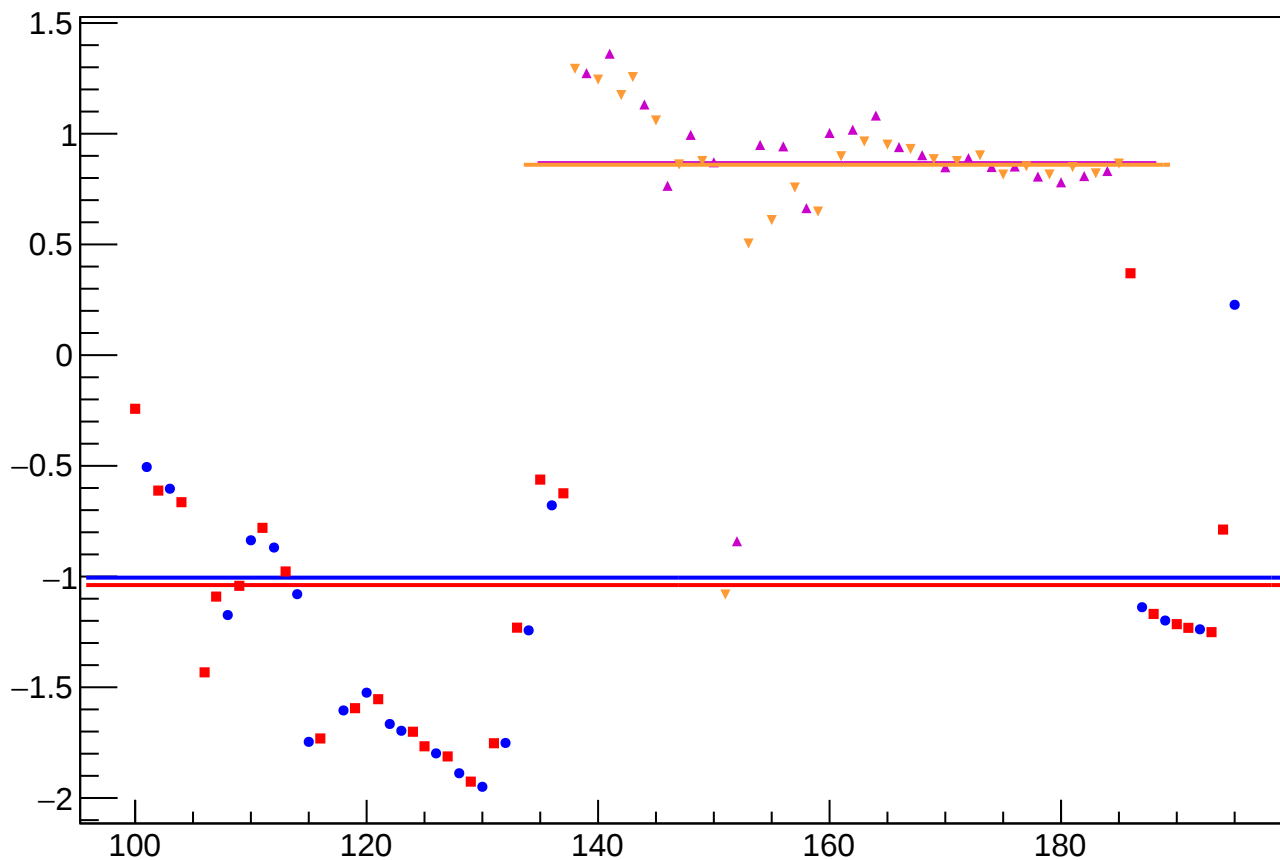
Right: 0.013+/-0.000 χ^2/NDF : 982869.7/45

In: 0.012+/-0.000 χ^2/NDF :2021474.9/43

Out: 0.012+/-0.000 χ^2/NDF :1964330.7/49

All: 0.012+/-0.000 χ^2/NDF : 3985840.4/93

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.005 ± 0.000 $\chi^2/\text{NDF}: 87746111911.8/20$

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 $\chi^2/\text{NDF}: 273407894621.9/47$

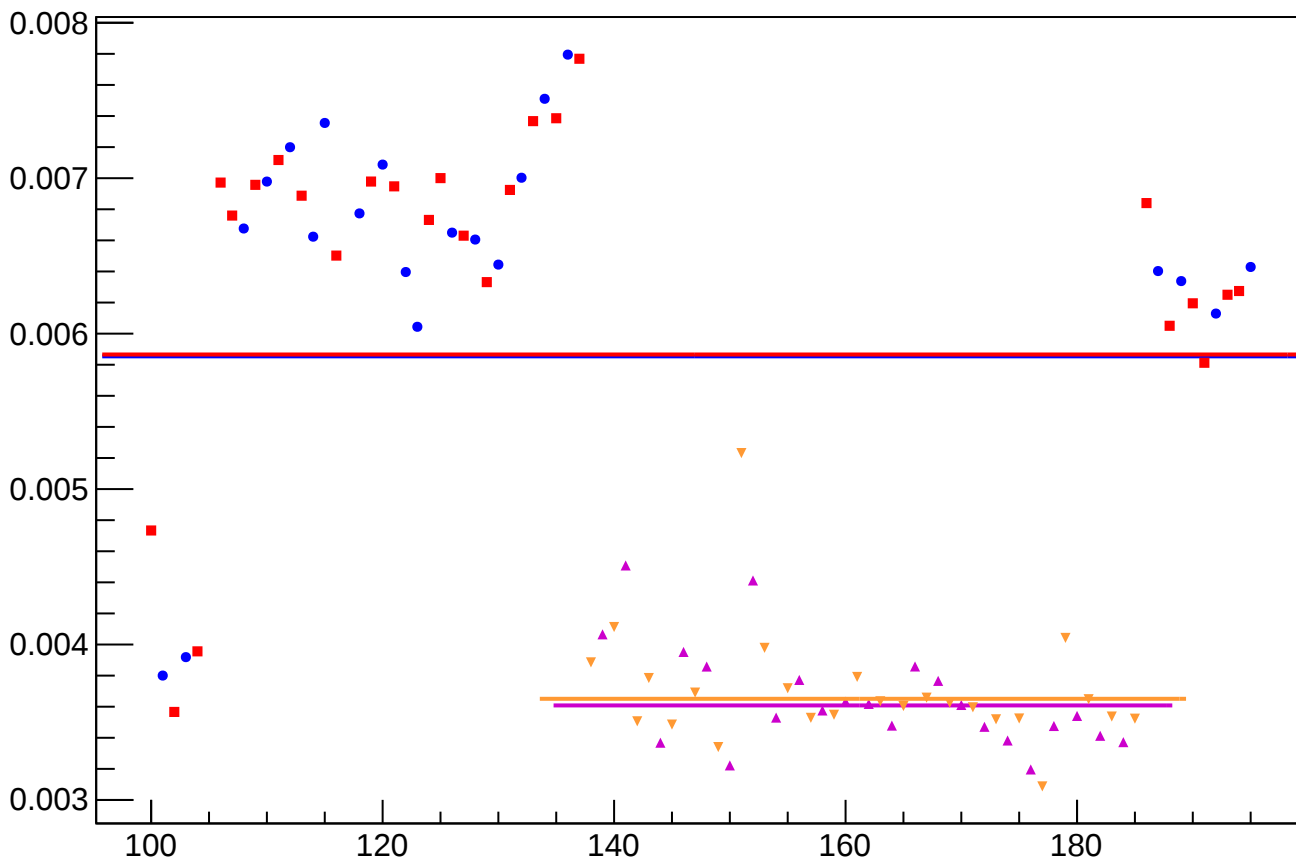
Right: -1.023 ± 0.000 $\chi^2/\text{NDF}: 152928780263.8/45$

In: 0.558 ± 0.000 $\chi^2/\text{NDF}: 932225989680.0/43$

Out: 0.518 ± 0.000 $\chi^2/\text{NDF}: 1004416604021.0/49$

All: 0.538 ± 0.000 $\chi^2/\text{NDF}: 1937852604537.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 868538.1/20

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

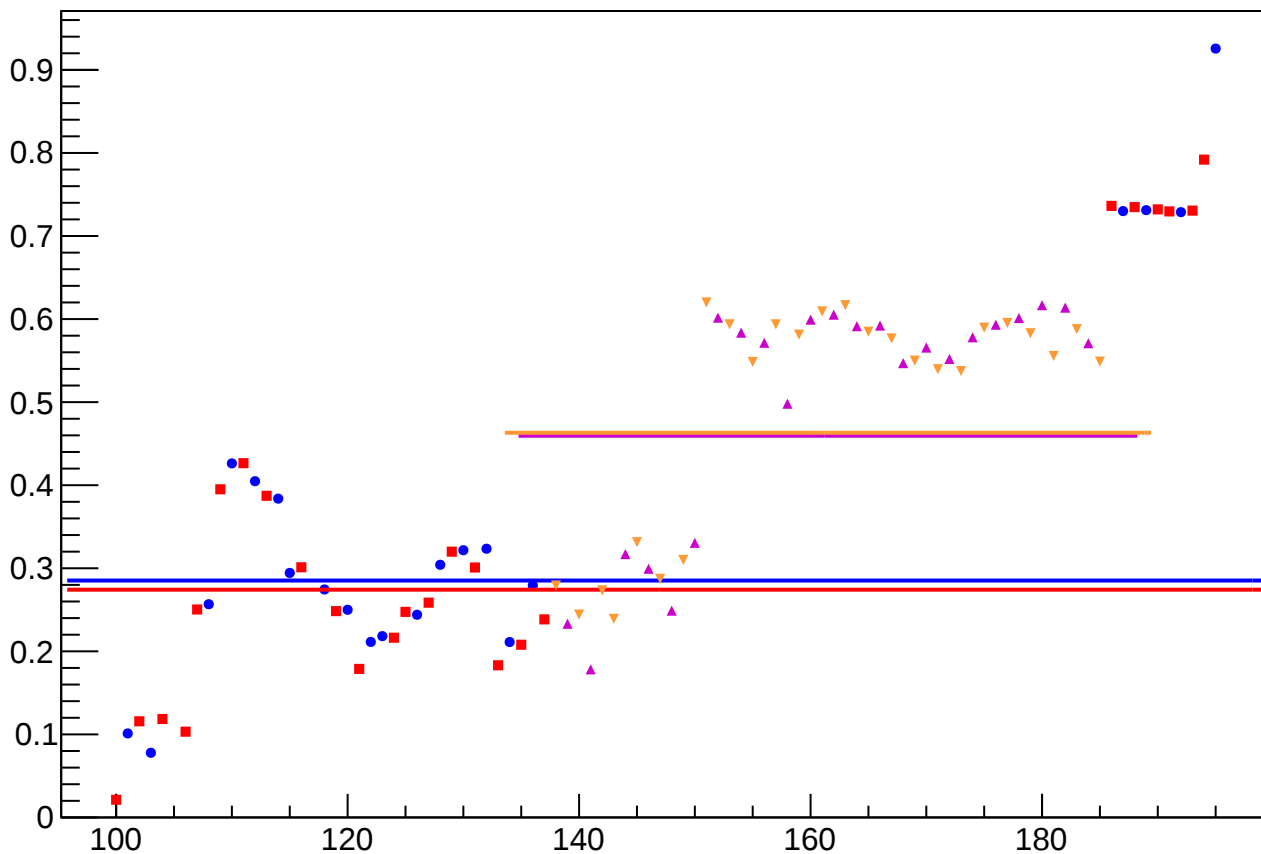
Right: 0.006+/-0.000 χ^2/NDF : 1829490.7/45

In: 0.004+/-0.000 χ^2/NDF :3103874.8/43

Out: 0.004+/-0.000 χ^2/NDF :3412104.0/49

All: 0.004+/-0.000 χ^2/NDF : 6523491.5/93

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.285 $\pm$ 0.000 χ^2 /NDF: 61580539038.1/20

Left Out: 0.463 $\pm$ 0.000 χ^2 /NDF: 102506270538.7/24

Right Out: 0.274 $\pm$ 0.000 χ^2 /NDF: 76993180390.6/24

Left In: 0.460 $\pm$ 0.000 χ^2 /NDF: 104559088628.4/22

Left: 0.461 $\pm$ 0.000 χ^2 /NDF: 207093695005.5/47

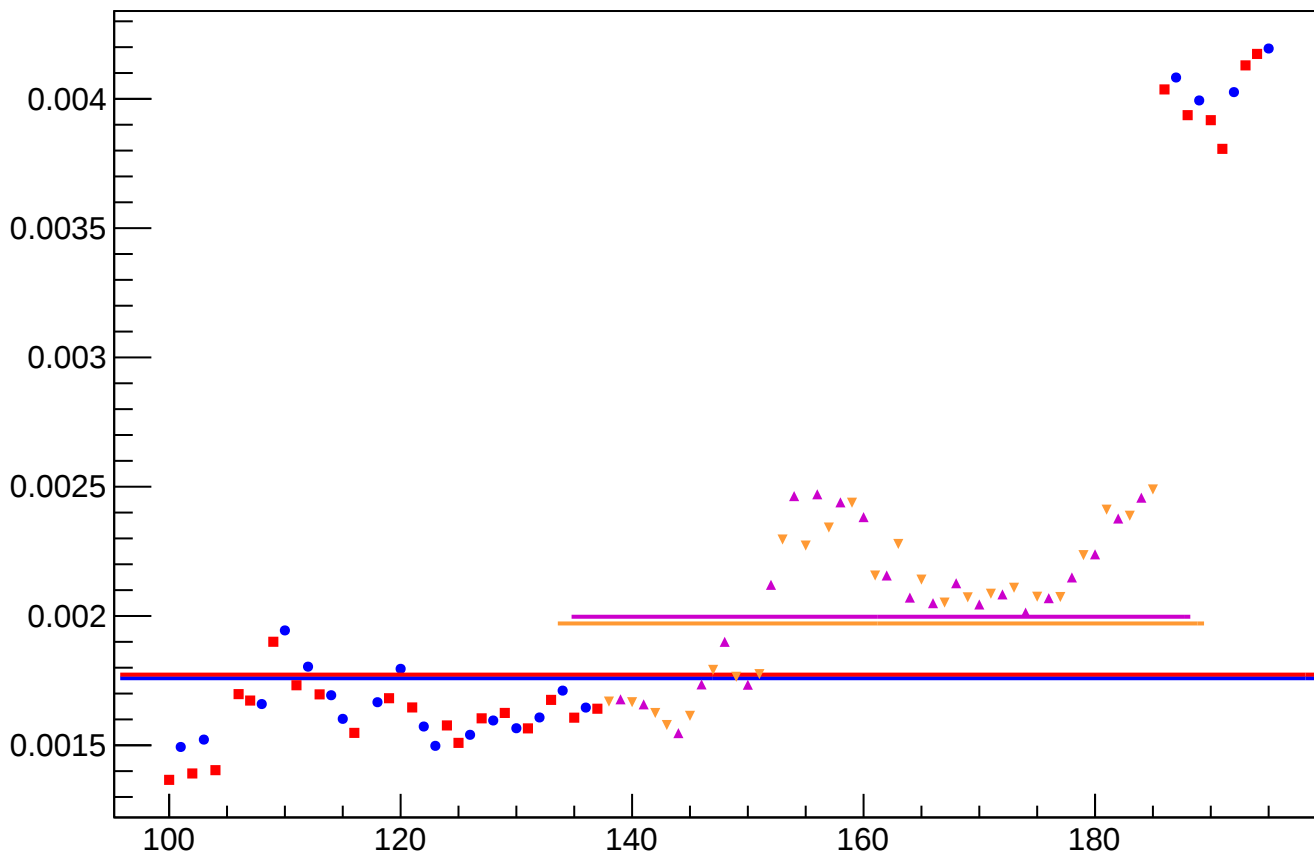
Right: 0.279 $\pm$ 0.000 χ^2 /NDF: 138740922857.9/45

In: 0.393 $\pm$ 0.000 χ^2 /NDF: 214682584485.2/43

Out: 0.390 $\pm$ 0.000 χ^2 /NDF: 243338125125.3/49

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 458068599473.2

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1672493.7/20

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

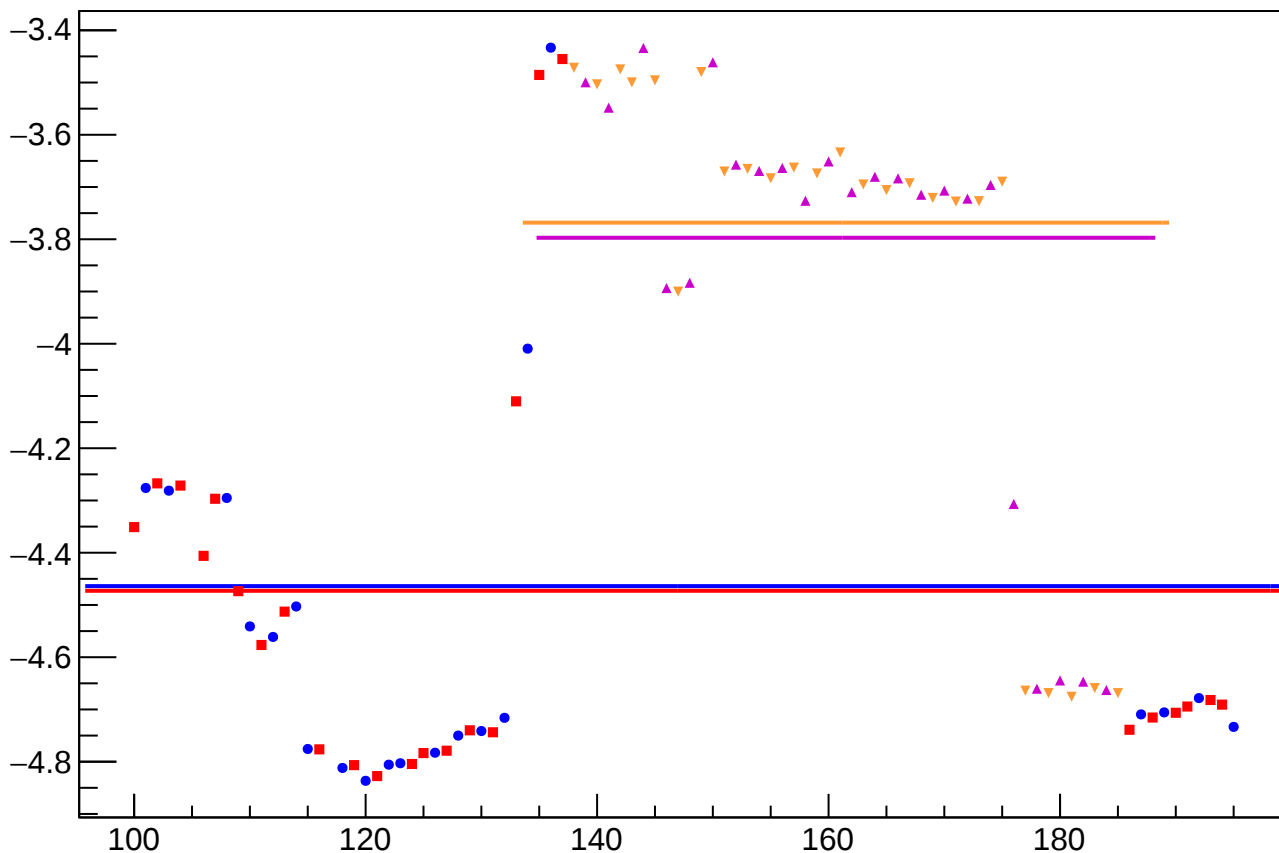
Right: 0.002+/-0.000 χ^2/NDF : 4083981.7/45

In: 0.002+/-0.000 χ^2/NDF : 2519654.1/43

Out: 0.002+/-0.000 χ^2/NDF : 3281070.3/49

All: 0.002+/-0.000 χ^2/NDF : 5801850.2/93

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.464 $\pm$ 0.000 χ^2 /NDF: 407455802808.3/20

Left Out: -3.768 $\pm$ 0.000 χ^2 /NDF: 516780173940.8/24

Right Out: -4.473 $\pm$ 0.000 χ^2 /NDF: 345991679318.7/24

Left In: -3.797 $\pm$ 0.000 χ^2 /NDF: 444886272608.9/22

Left: -3.782 $\pm$ 0.000 χ^2 /NDF: 963205684454.6/47

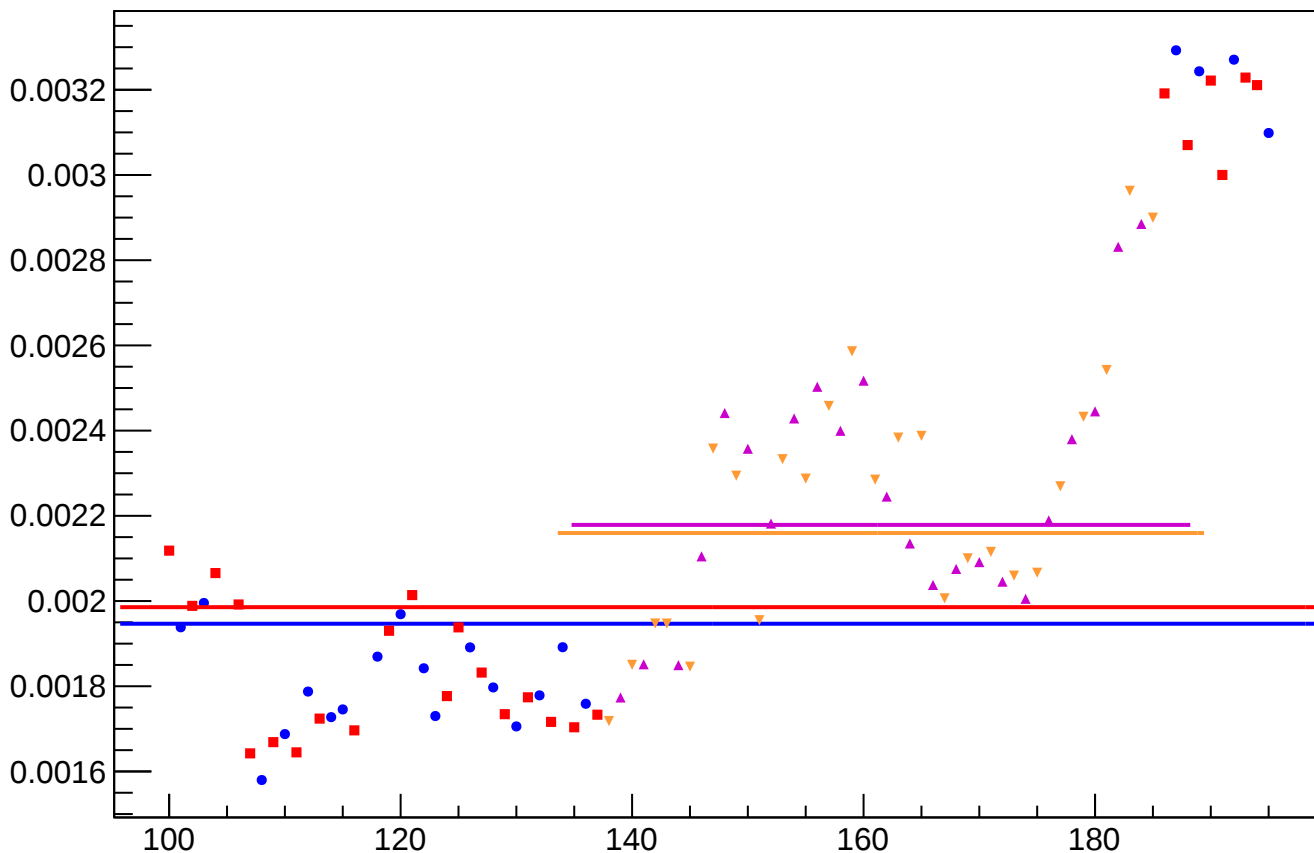
Right: -4.469 $\pm$ 0.000 χ^2 /NDF: 753539709789.1/45

In: -4.054 $\pm$ 0.000 χ^2 /NDF: 1459545083091.1/43

Out: -4.045 $\pm$ 0.000 χ^2 /NDF: 1605691097300.1/49

All: -4.049 $\pm$ 0.000 χ^2 /NDF: 3065475045575

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 845531.9/20

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

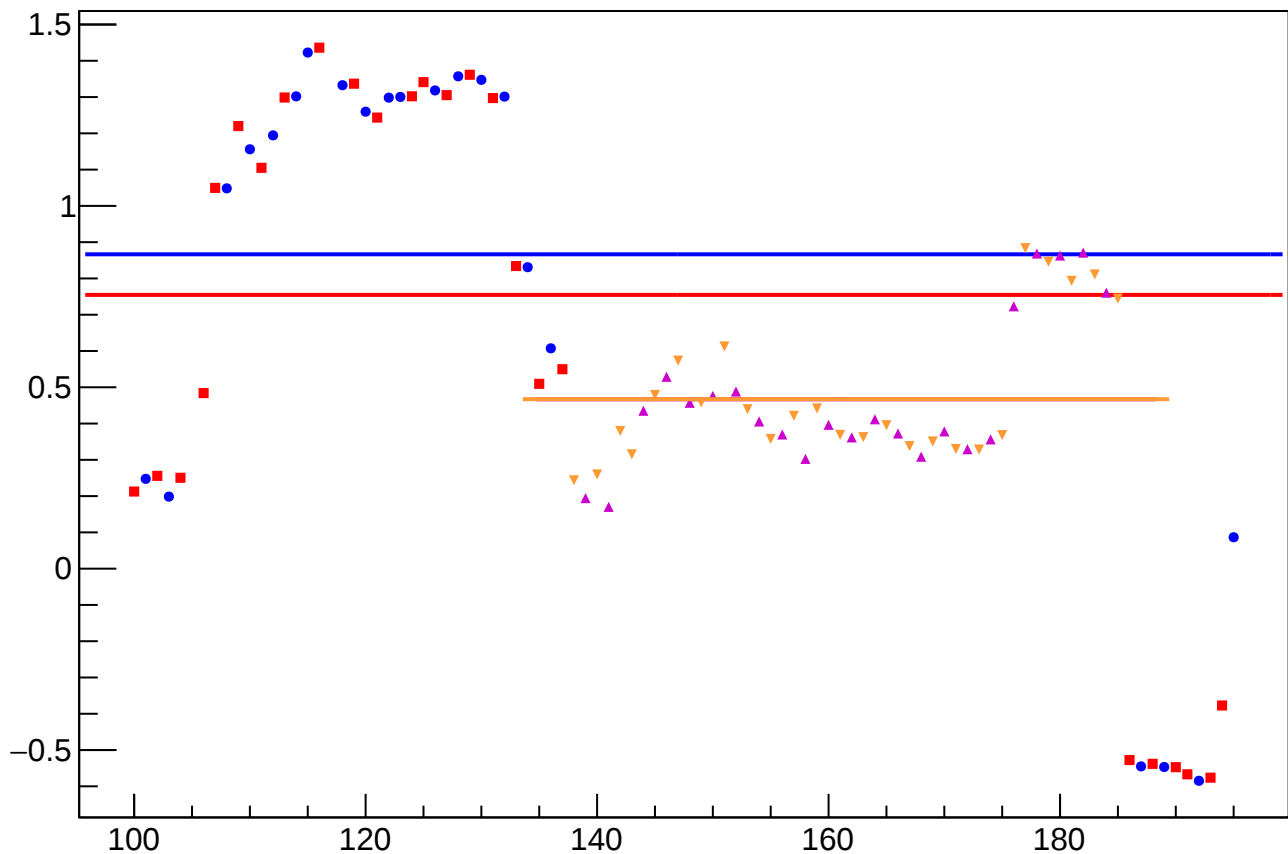
Right: 0.002+/-0.000 χ^2/NDF : 2021104.3/45

In: 0.002+/-0.000 χ^2/NDF :1455834.1/43

Out: 0.002+/-0.000 χ^2/NDF :1810520.5/49

All: 0.002+/-0.000 χ^2/NDF : 3266375.6/93

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.867 +/- 0.000 χ^2/NDF : 56612502026.2/20

Left Out: 0.467 +/- 0.000 χ^2/NDF : 7359344143.3/24

Right Out: 0.755 +/- 0.000 χ^2/NDF : 82258497818.0/24

Left In: 0.467 +/- 0.000 χ^2/NDF : 8036741308.0/22

Left: 0.467 +/- 0.000 χ^2/NDF : 15396100488.4/47

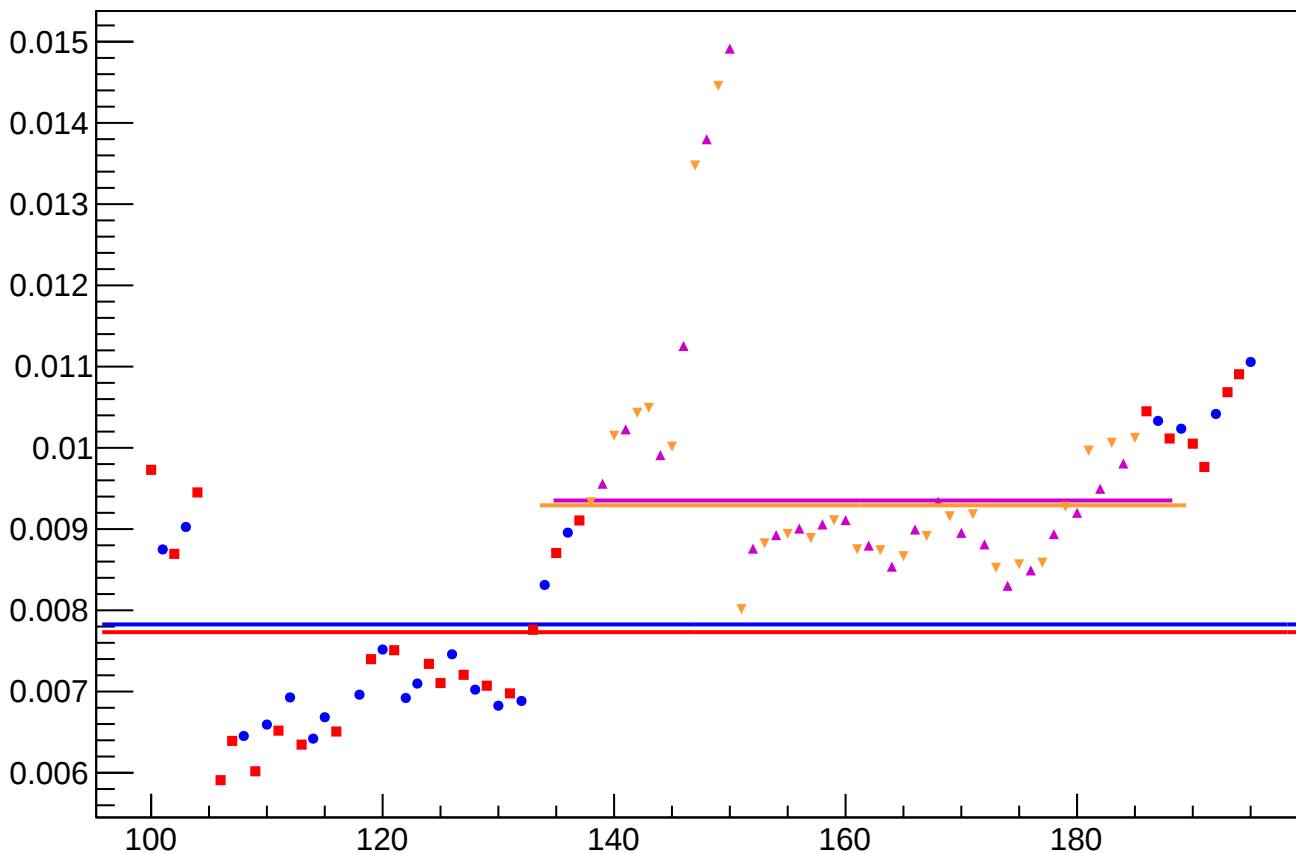
Right: 0.806 +/- 0.000 χ^2/NDF : 139841234297.6/45

In: 0.636 +/- 0.000 χ^2/NDF : 77812226300.0/43

Out: 0.596 +/- 0.000 χ^2/NDF : 97339581360.3/49

All: 0.615 +/- 0.000 χ^2/NDF : 175445182953.7

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 560982.0/20

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

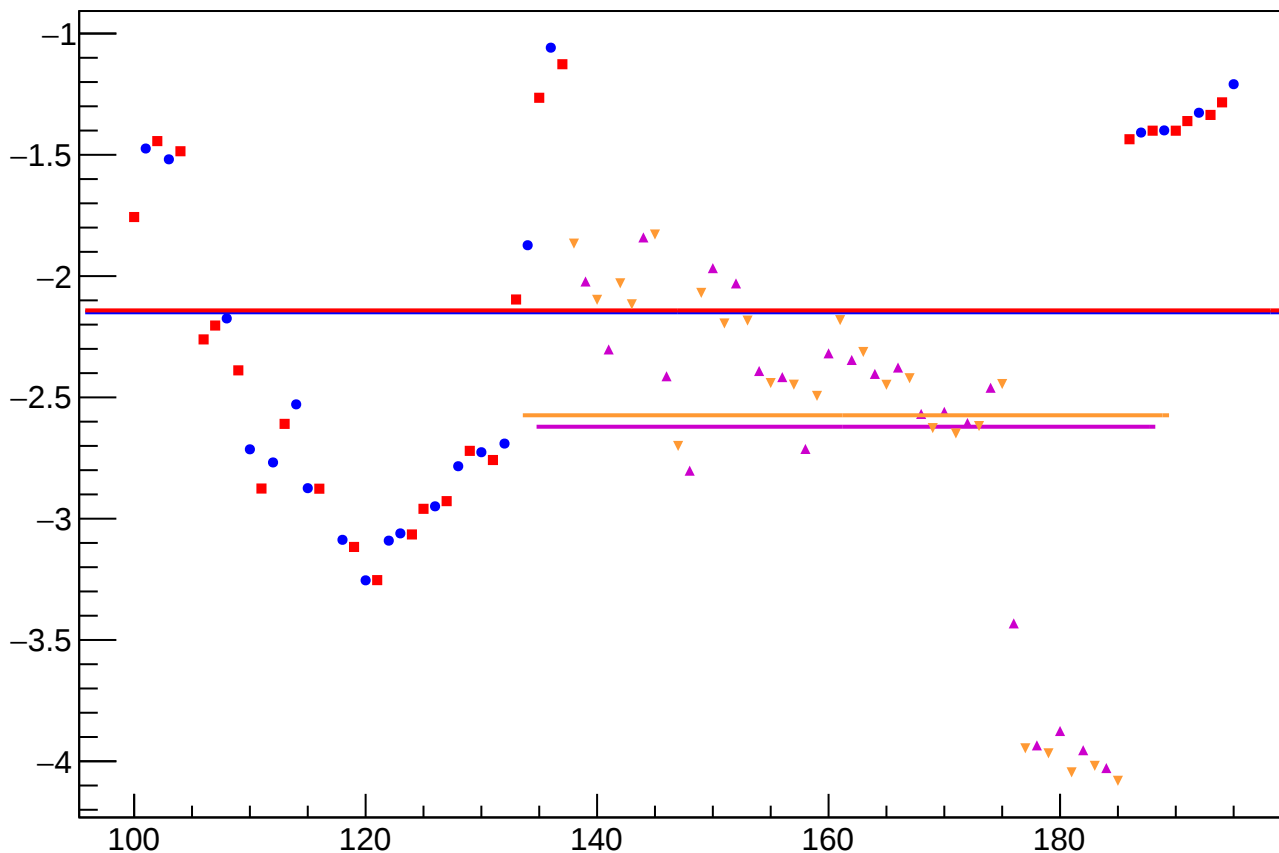
Right: 0.008+/-0.000 χ^2/NDF : 1388356.4/45

In: 0.009+/-0.000 χ^2/NDF :1502134.0/43

Out: 0.009+/-0.000 χ^2/NDF :1810229.2/49

All: 0.009+/-0.000 χ^2/NDF : 3316728.3/93

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.149+/-0.000 χ^2/NDF : 95394336417.4/20

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

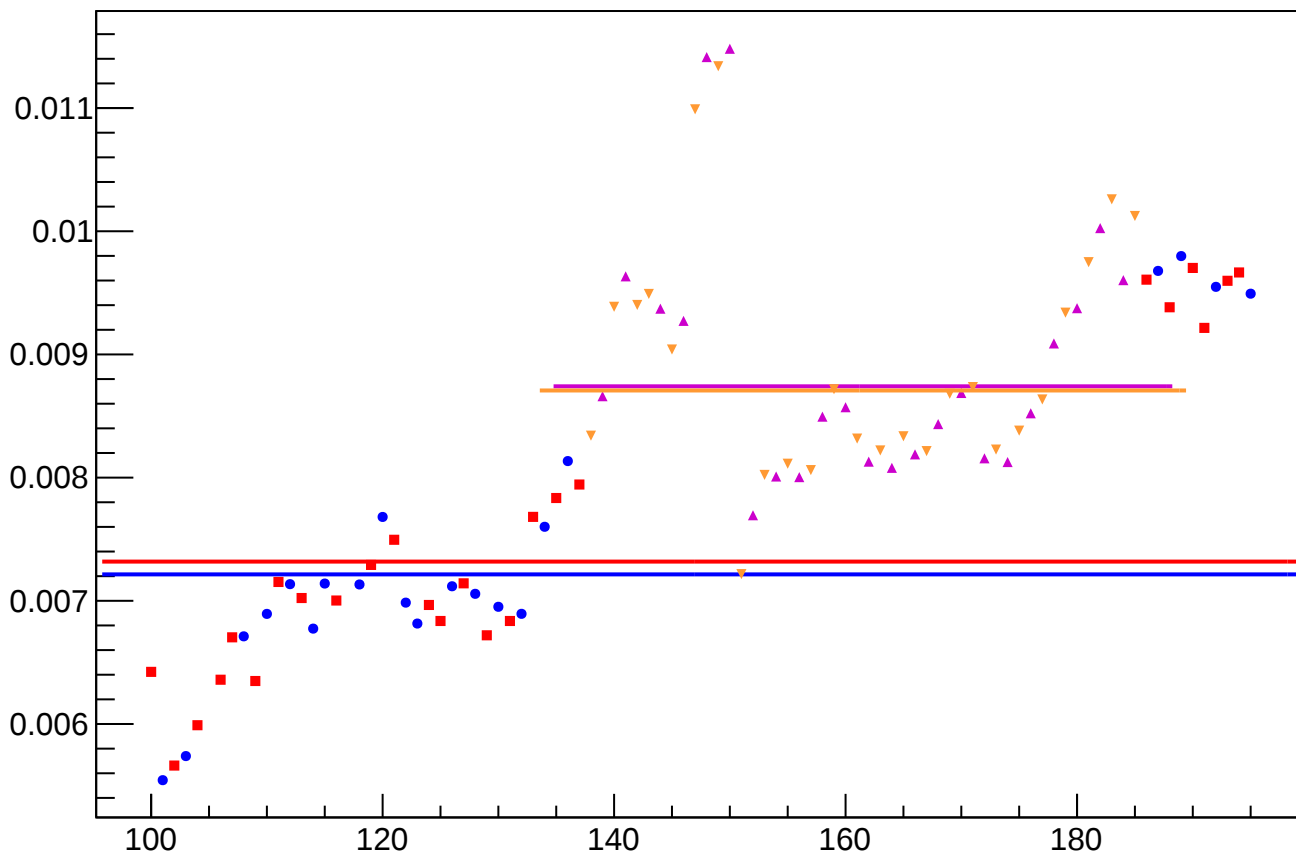
Right: -2.145+/-0.000 χ^2/NDF : 188583942483.4/45

In: -2.418+/-0.000 χ^2/NDF : 197709719309.1/43

Out: -2.382+/-0.000 χ^2/NDF : 212235378109.5/49

All: -2.399+/-0.000 χ^2/NDF : 410215196021.4

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 506255.1/20

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

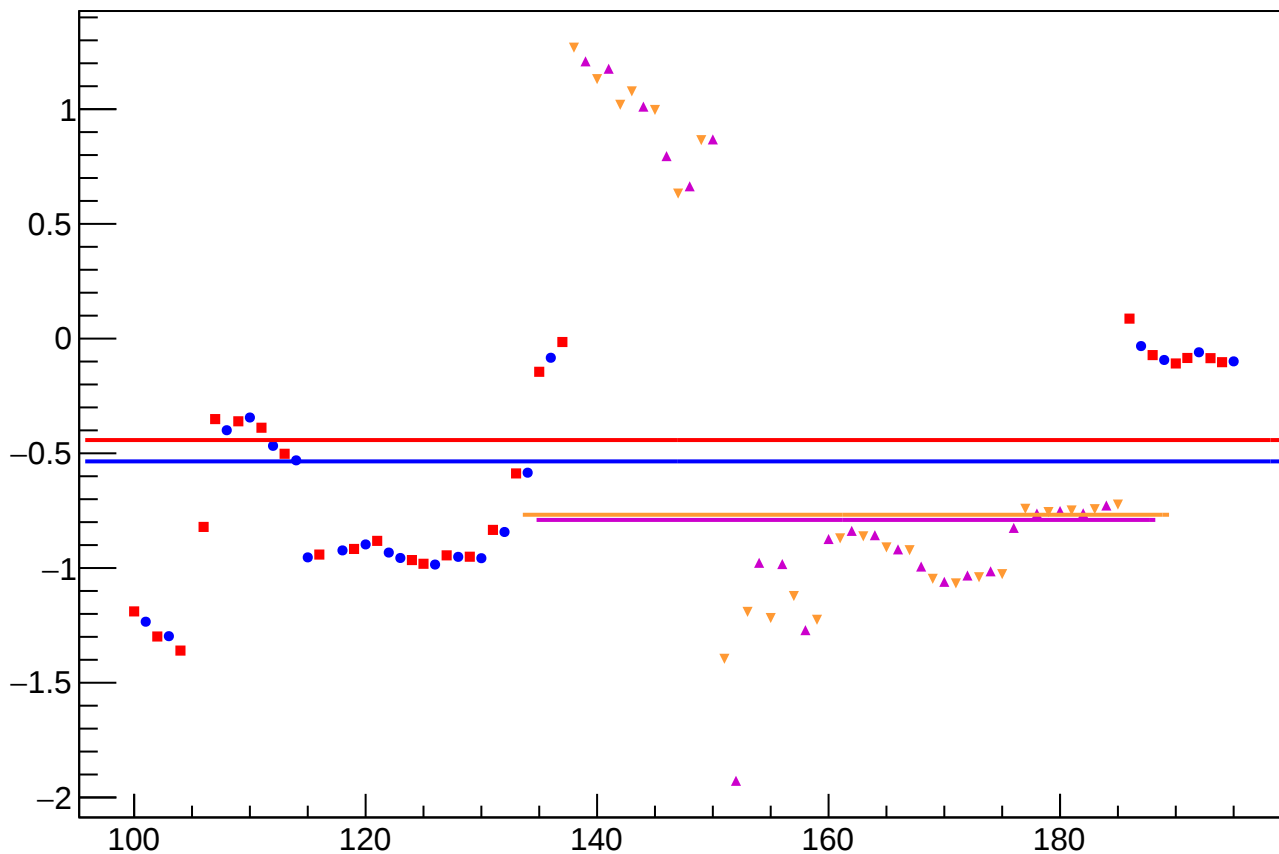
Right: 0.007+/-0.000 χ^2/NDF : 1096145.4/45

In: 0.008+/-0.000 χ^2/NDF :1309369.7/43

Out: 0.008+/-0.000 χ^2/NDF :1367553.5/49

All: 0.008+/-0.000 χ^2/NDF : 2676938.8/93

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.535+/-0.000 χ^2/NDF : 19217566117.8/20

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.442+/-0.000 χ^2/NDF : 23228260715.2/24

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

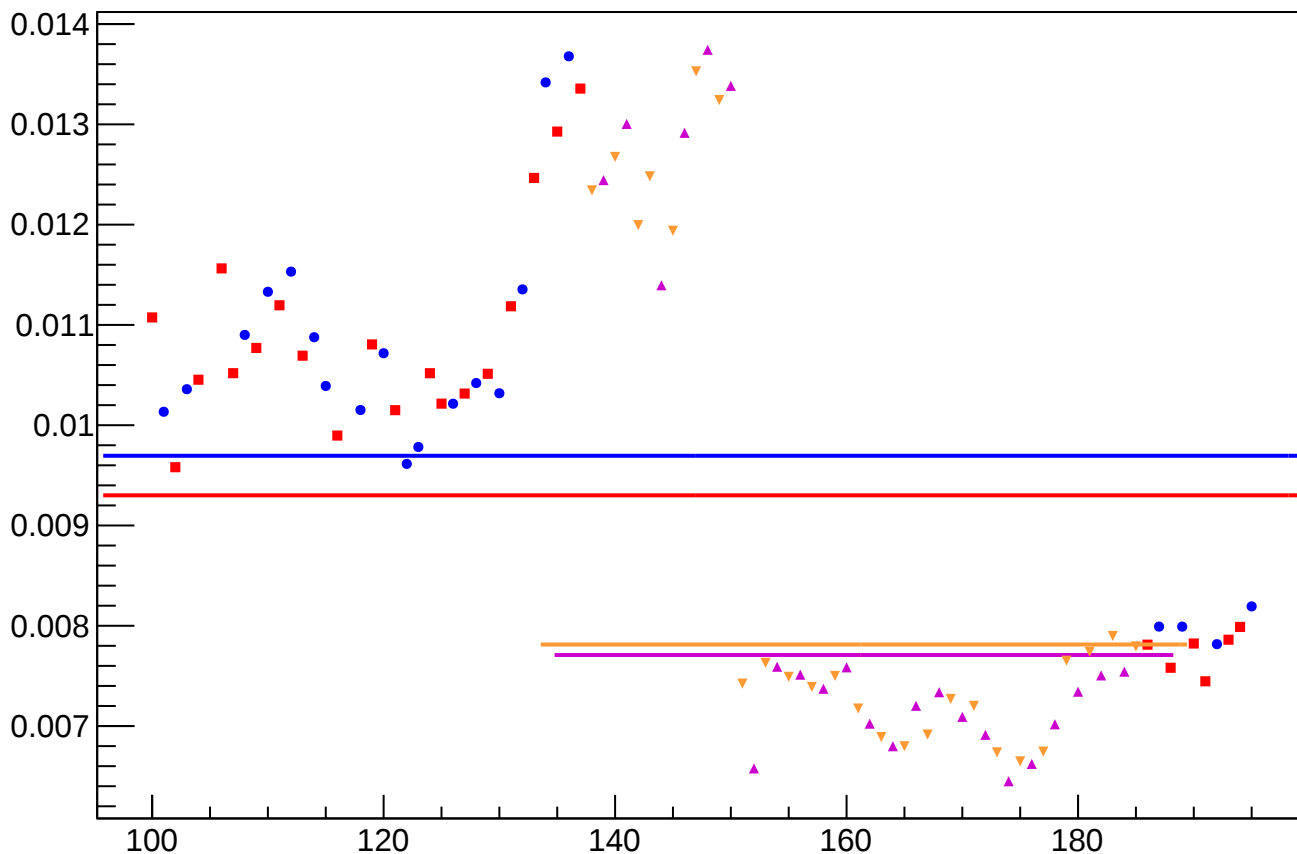
Right: -0.484+/-0.000 χ^2/NDF : 42890284759.6/45

In: -0.726+/-0.000 χ^2/NDF : 147164117779.6/43

Out: -0.673+/-0.000 χ^2/NDF : 152703976290.4/49

All: -0.698+/-0.000 χ^2/NDF : 300395811521.4

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 475120.1/20

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 606109.1/24

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

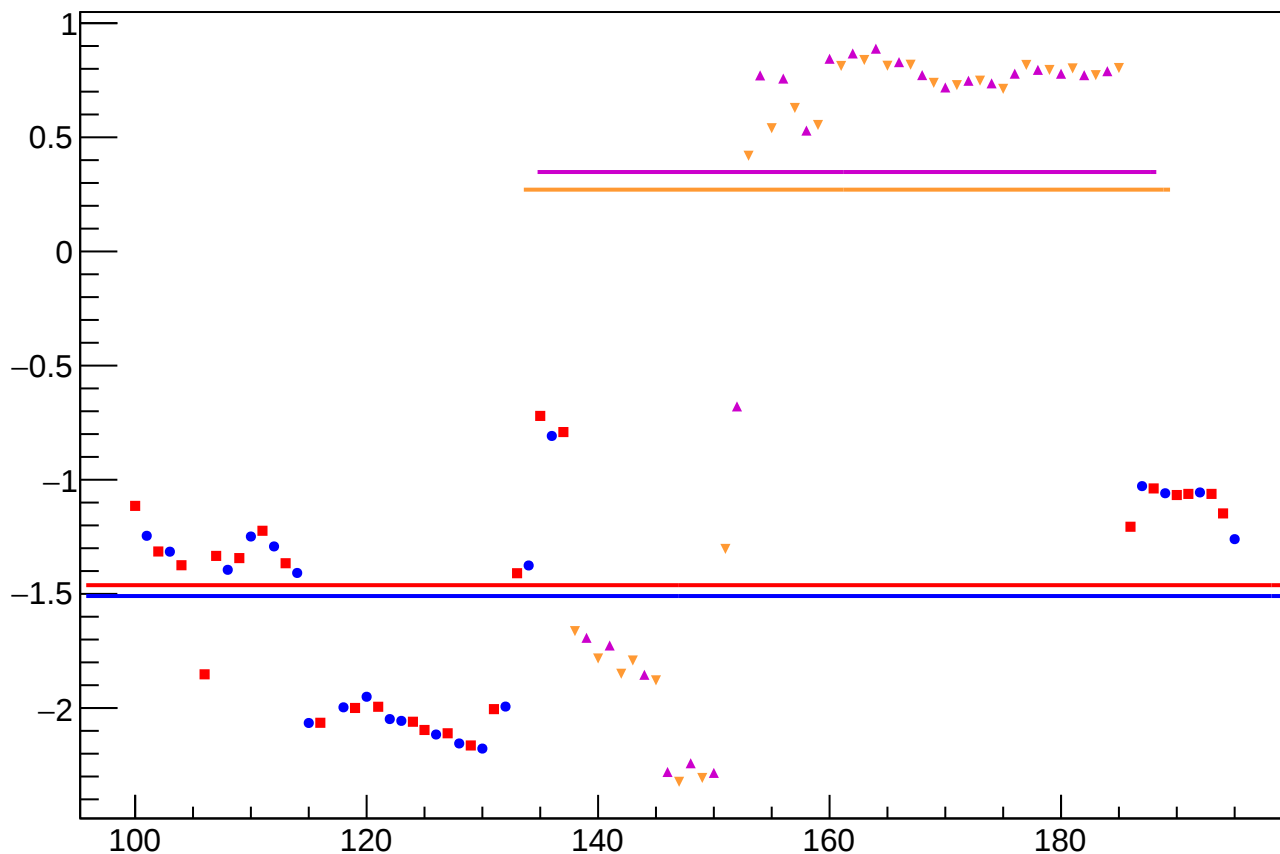
Right: 0.009+/-0.000 χ^2/NDF : 1097223.0/45

In: 0.008+/-0.000 χ^2/NDF :2766558.2/43

Out: 0.008+/-0.000 χ^2/NDF :2675355.1/49

All: 0.008+/-0.000 χ^2/NDF : 5442355.6/93

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.509+/-0.000 χ^2/NDF : 170816819243.7/20

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.462+/-0.000 χ^2/NDF : 162230554232.5/24

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

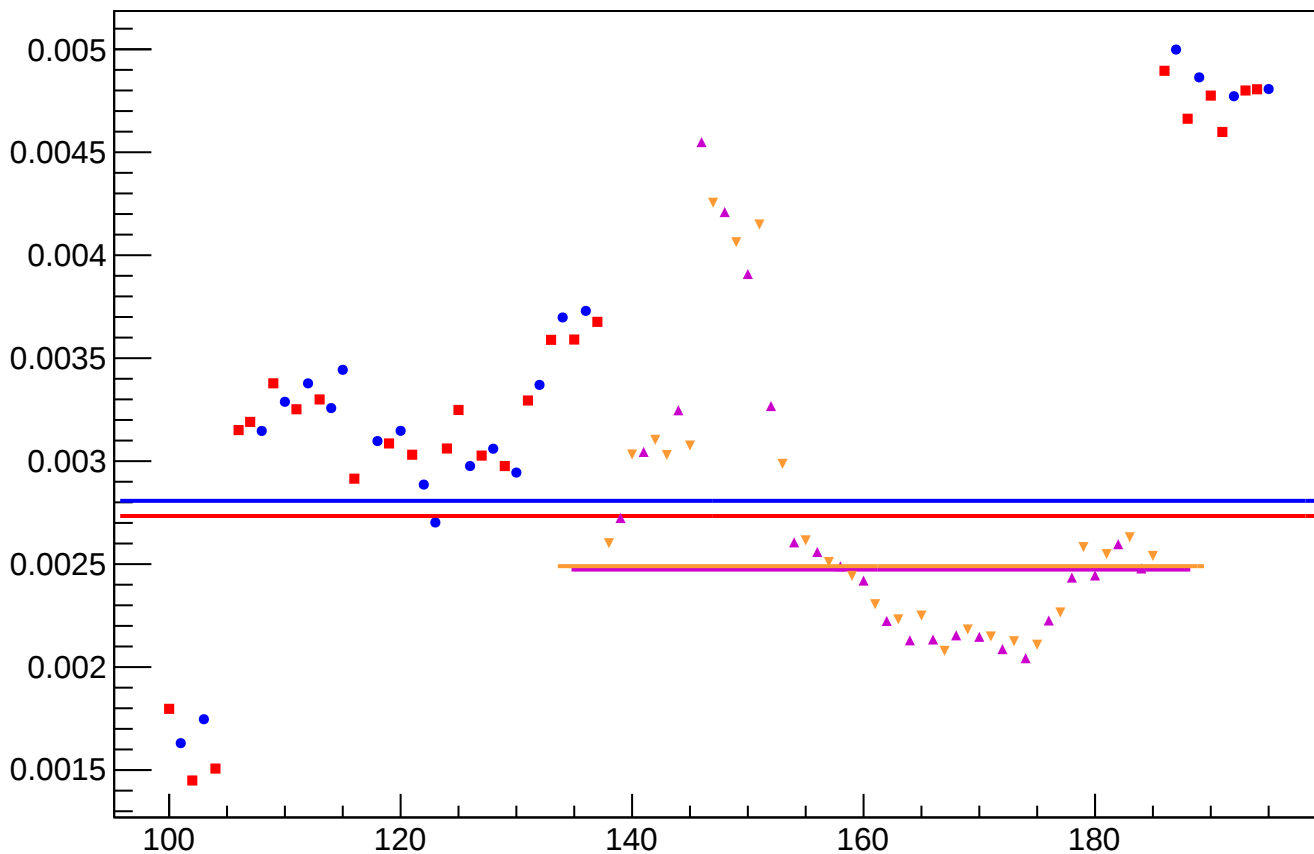
Right: -1.484+/-0.000 χ^2/NDF : 334206076437.0/45

In: -0.165+/-0.000 χ^2/NDF : 4812106394275.2/43

Out: -0.246+/-0.000 χ^2/NDF : 5092515201449.3/49

All: -0.207+/-0.000 χ^2/NDF : 9916198617506

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1901434.5/20

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

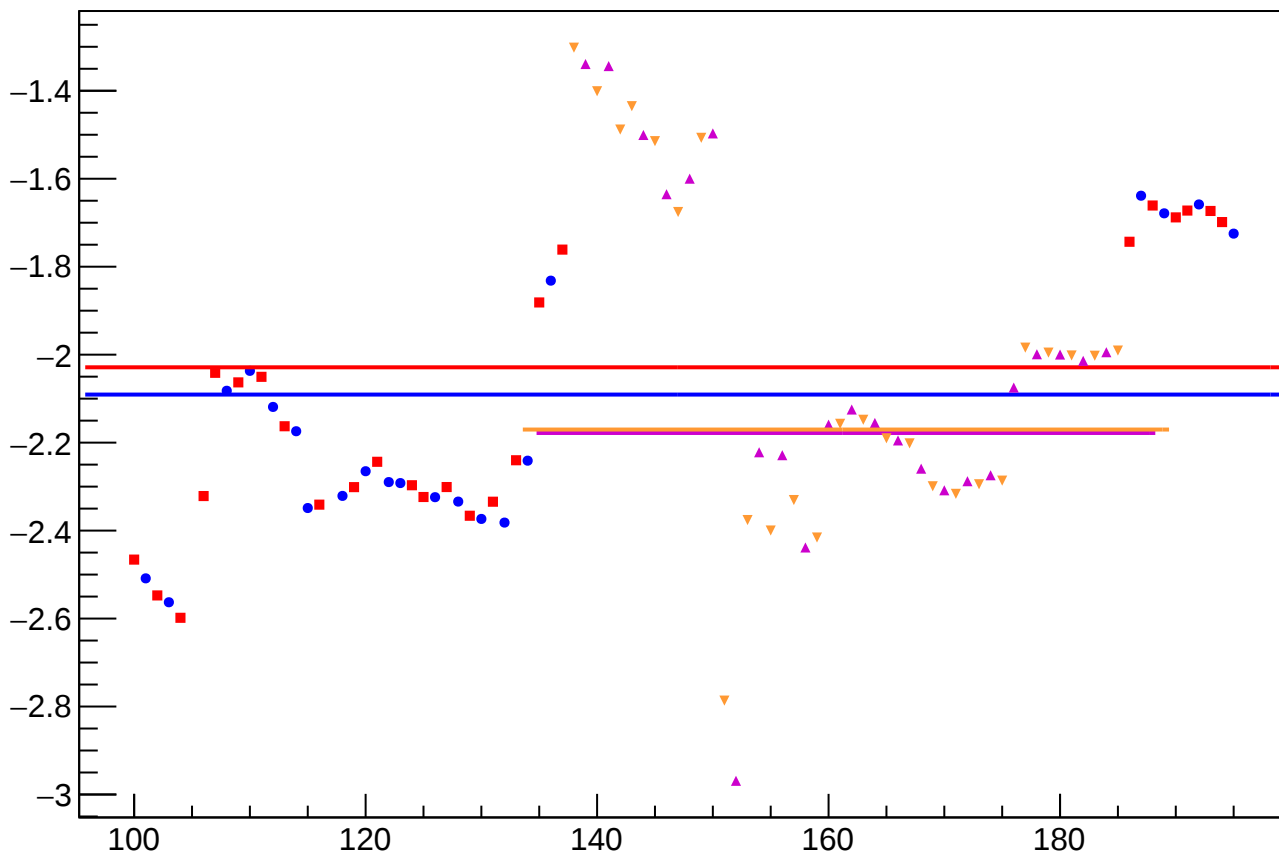
Right: 0.003+/-0.000 χ^2/NDF : 4803688.7/45

In: 0.003+/-0.000 χ^2/NDF :3189687.4/43

Out: 0.003+/-0.000 χ^2/NDF :4059747.2/49

All: 0.003+/-0.000 χ^2/NDF : 7249467.6/93

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.091+/-0.000 χ^2/NDF : 24865320406.1/20

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

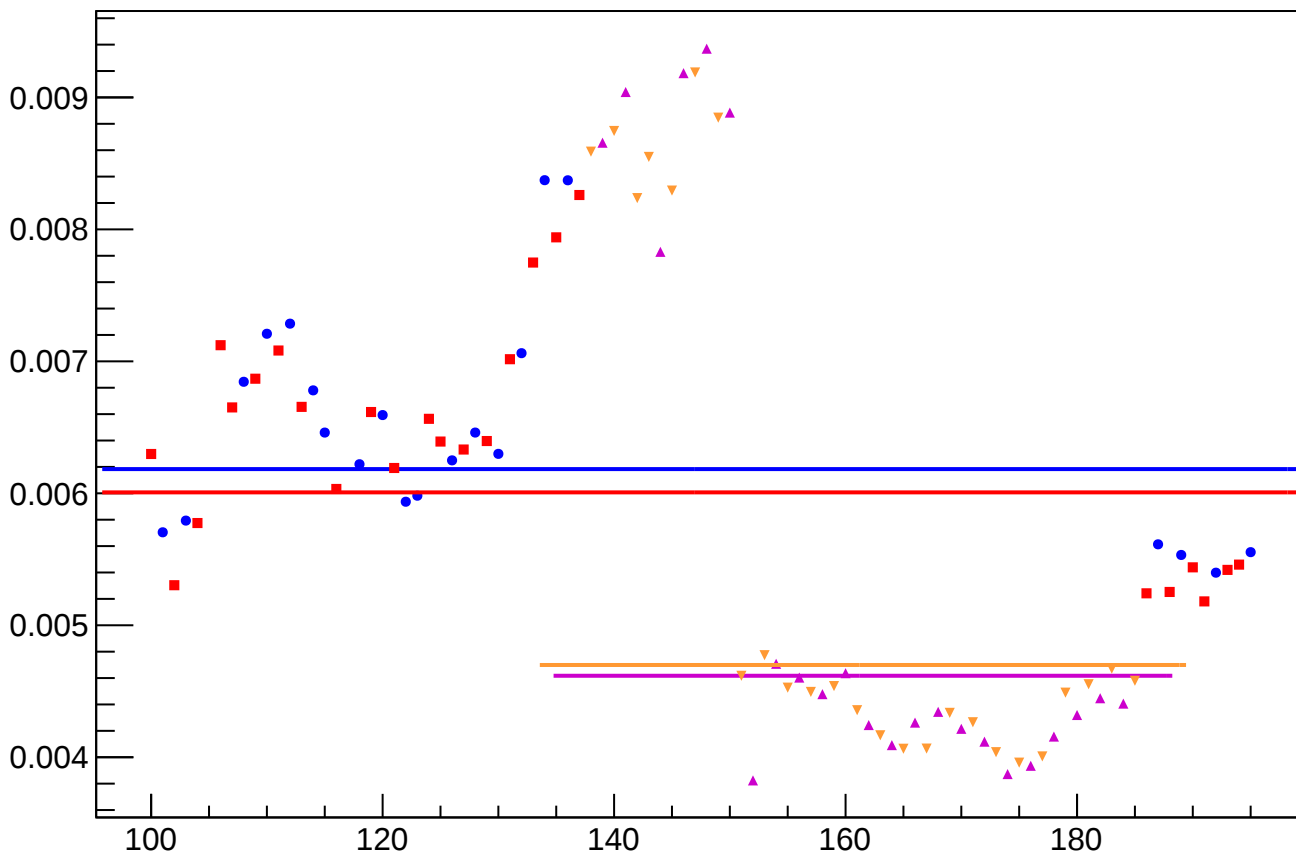
Right: -2.057+/-0.000 χ^2/NDF : 56368409588.9/45

In: -2.157+/-0.000 χ^2/NDF : 99589554923.7/43

Out: -2.132+/-0.000 χ^2/NDF : 95066702878.9/49

All: -2.144+/-0.000 χ^2/NDF : 194974918139.5

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 286363.7/20

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

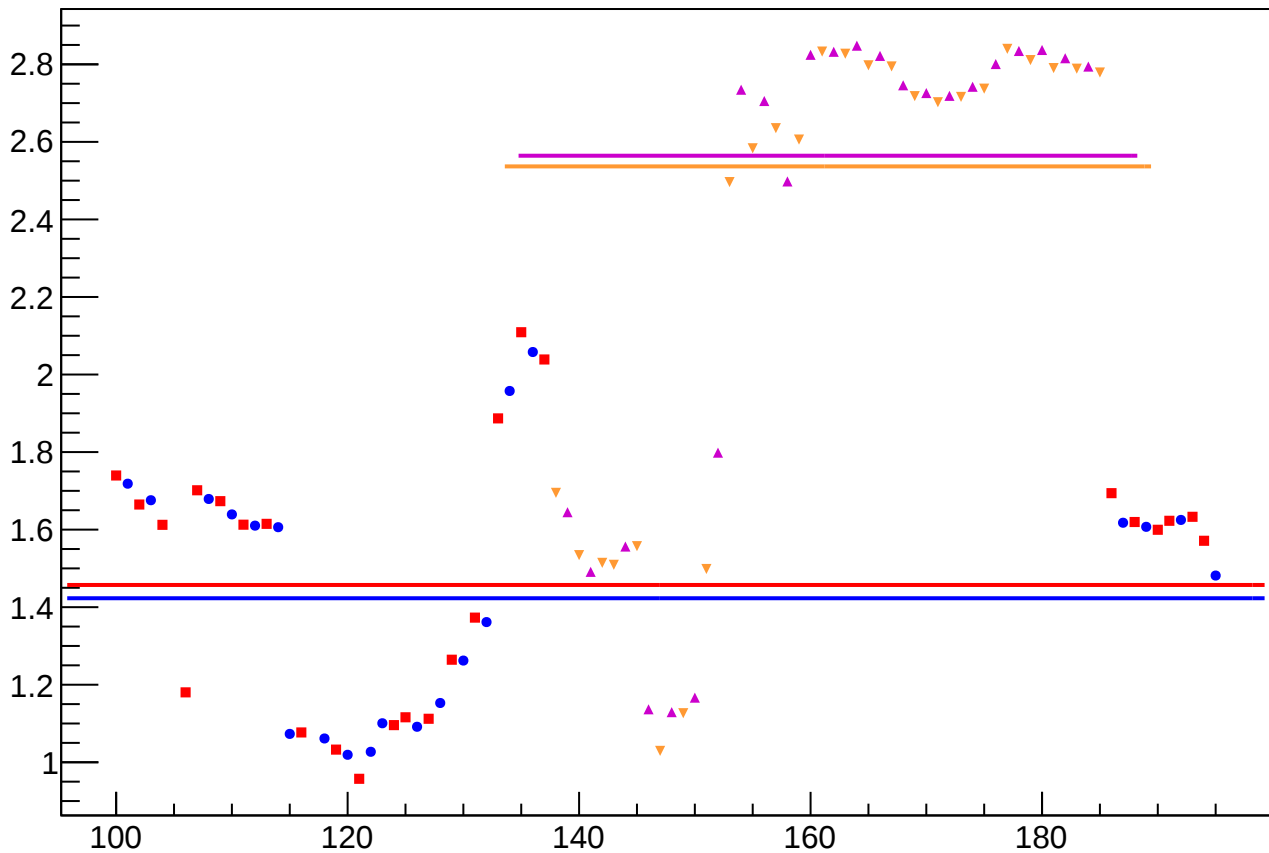
Right: 0.006+/-0.000 χ^2/NDF : 640223.2/45

In: 0.005+/-0.000 χ^2/NDF :3504513.4/43

Out: 0.005+/-0.000 χ^2/NDF :3362493.4/49

All: 0.005+/-0.000 χ^2/NDF : 6871030.1/93

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423 $\pm$ 0.000 χ^2/NDF : 174053176504.3/20

Left Out: 2.537 $\pm$ 0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.457 $\pm$ 0.000 χ^2/NDF : 176653741227.2/24

Left In: 2.564 $\pm$ 0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550 $\pm$ 0.000 χ^2/NDF : 530319507083.6/47

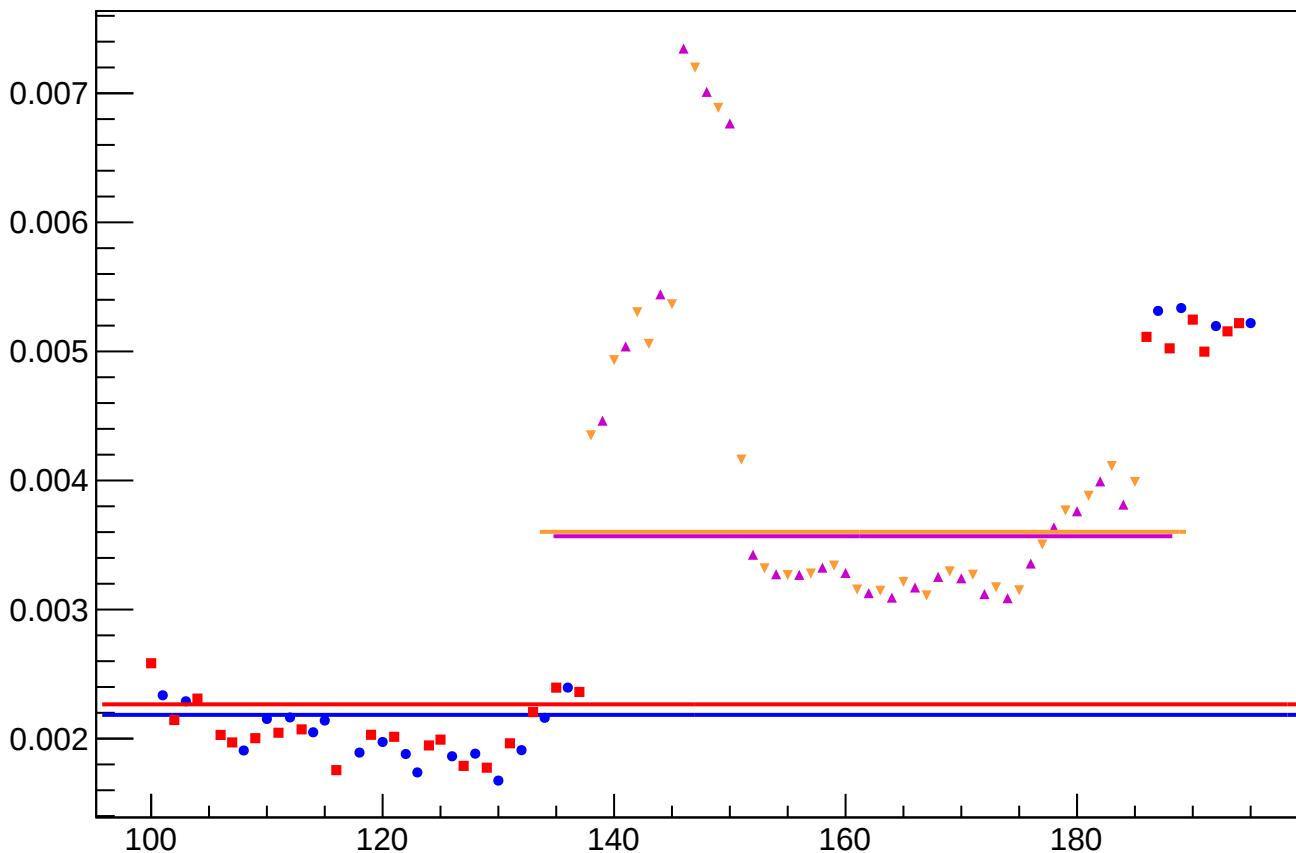
Right: 1.441 $\pm$ 0.000 χ^2/NDF : 351675057345.6/45

In: 1.918 $\pm$ 0.000 χ^2/NDF : 1339079739269.1/43

Out: 1.922 $\pm$ 0.000 χ^2/NDF : 1300746370939.1/49

All: 1.920 $\pm$ 0.000 χ^2/NDF : 2639855260740.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1827603.0/20

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

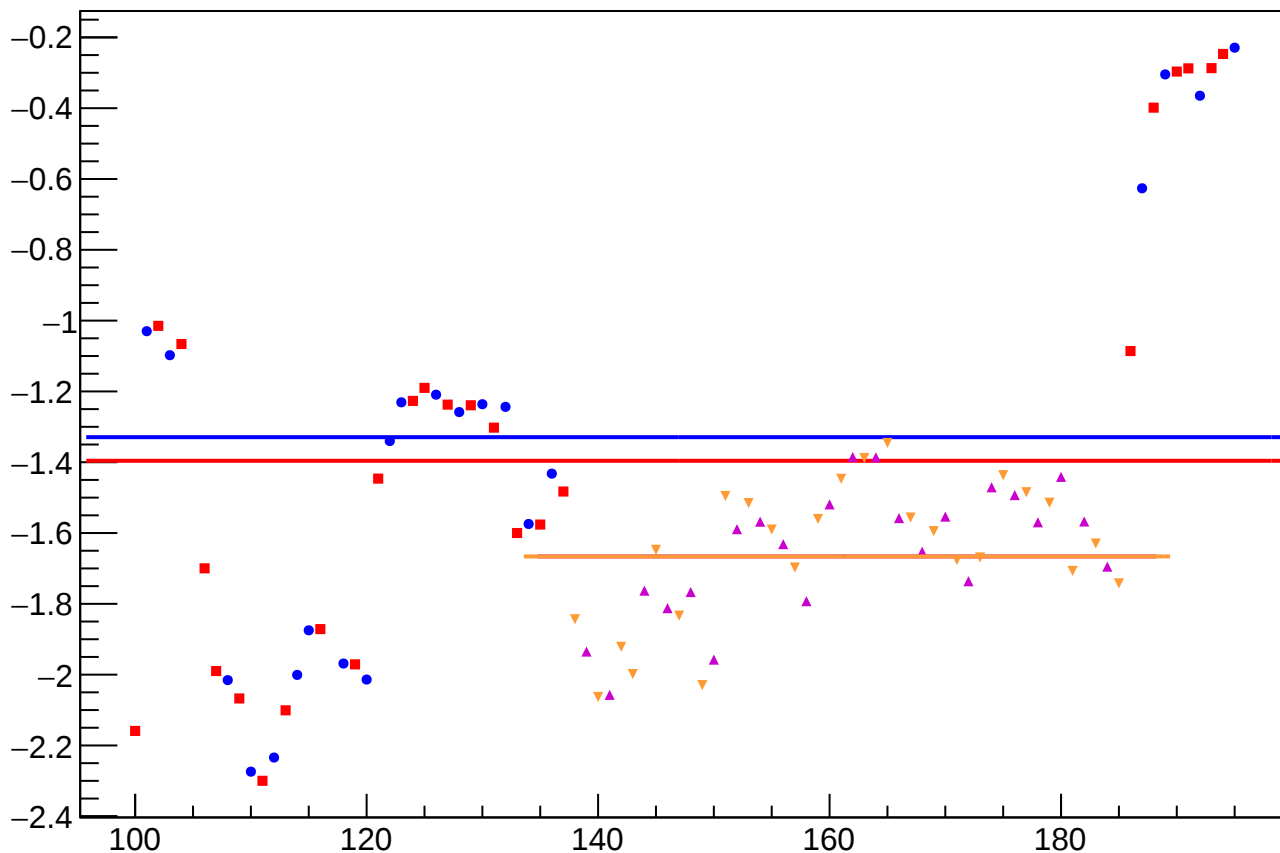
Right: 0.002+/-0.000 χ^2/NDF : 4255867.8/45

In: 0.003+/-0.000 χ^2/NDF :6051091.5/43

Out: 0.003+/-0.000 χ^2/NDF :6448458.6/49

All: 0.003+/-0.000 χ^2/NDF : 12509115.2/93

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.329+/-0.000 χ^2/NDF : 50021005819.8/20

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

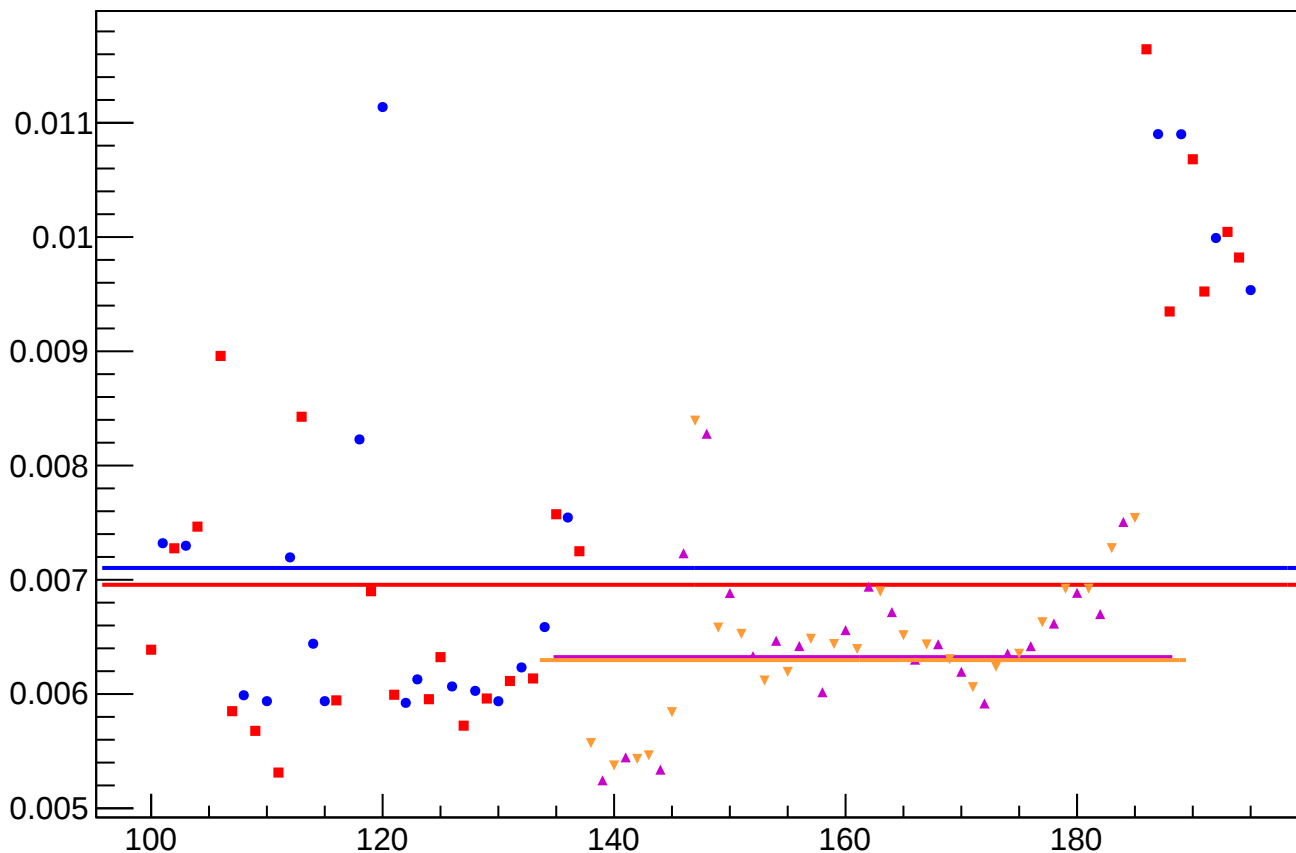
Right: -1.366+/-0.000 χ^2/NDF : 122568039478.9/45

In: -1.571+/-0.000 χ^2/NDF : 77434652419.6/43

Out: -1.583+/-0.000 χ^2/NDF : 100415773699.5/49

All: -1.577+/-0.000 χ^2/NDF : 177890646277.0

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 690823.3/20

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

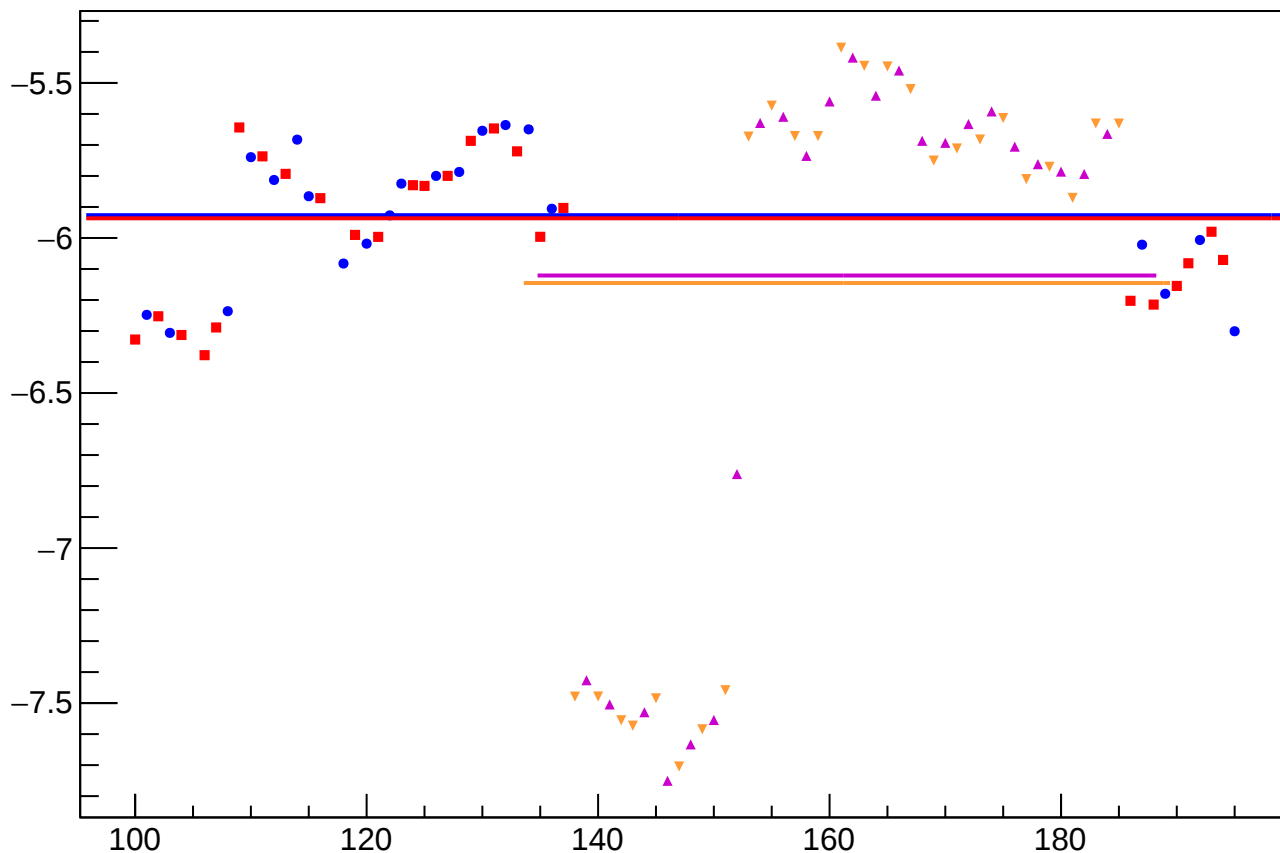
Right: 0.007+/-0.000 χ^2/NDF : 1661001.8/45

In: 0.007+/-0.000 χ^2/NDF : 1162519.9/43

Out: 0.007+/-0.000 χ^2/NDF : 1395333.2/49

All: 0.007+/-0.000 χ^2/NDF : 2558939.4/93

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.926+/-0.000 χ^2/NDF : 12119518006.8/20

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

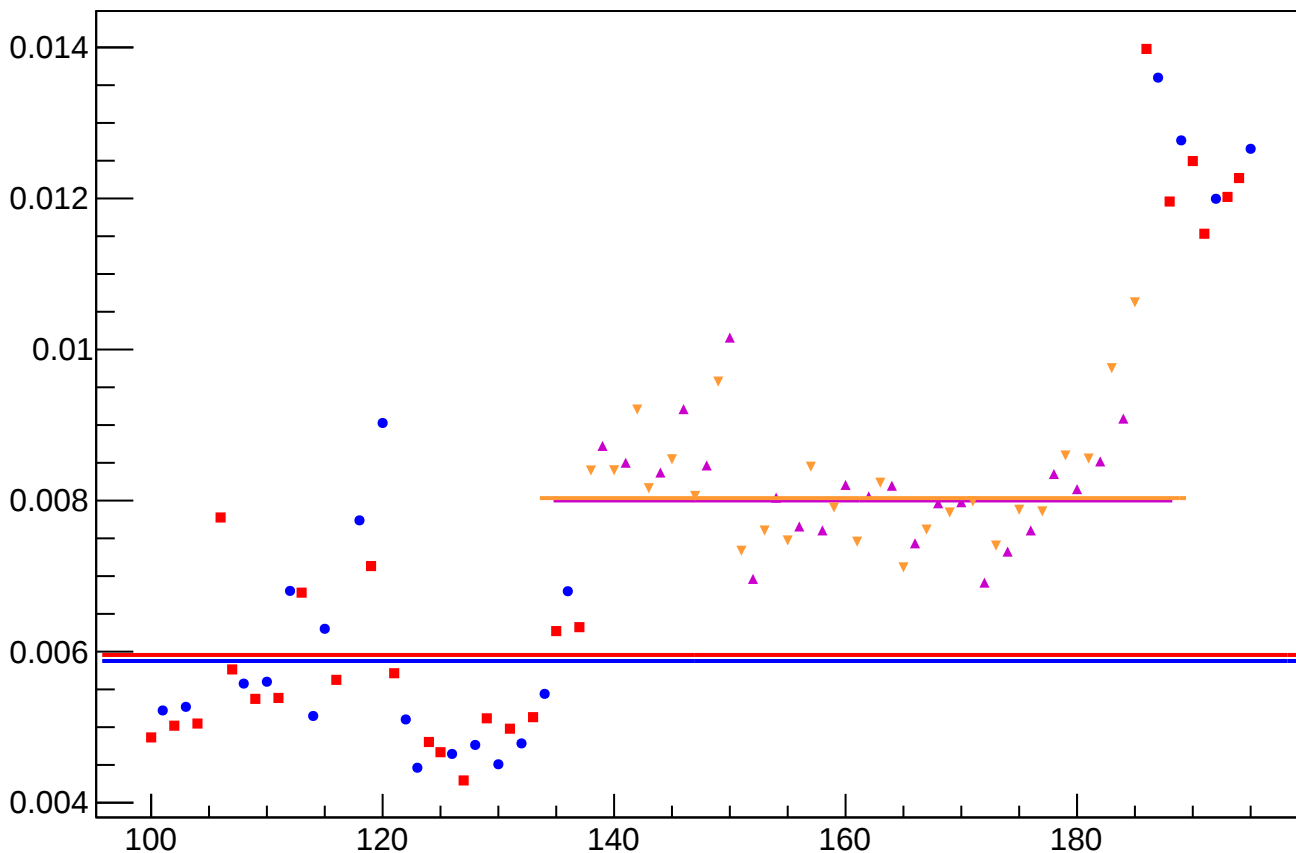
Right: -5.932+/-0.000 χ^2/NDF : 25848434182.3/45

In: -6.030+/-0.000 χ^2/NDF : 174799635425.5/43

Out: -6.043+/-0.000 χ^2/NDF : 204535320184.1/49

All: -6.037+/-0.000 χ^2/NDF : 379377894661.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1732909.8/20

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

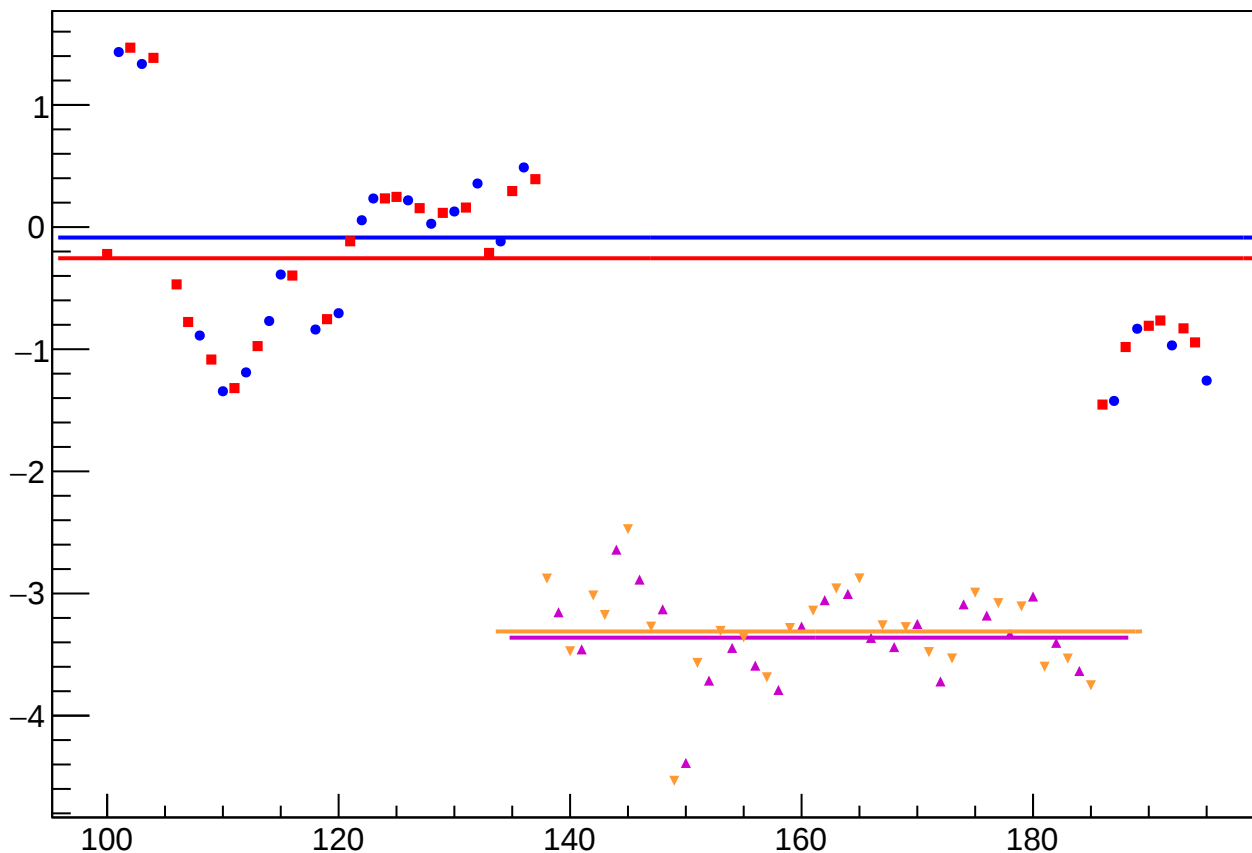
Right: 0.006+/-0.000 χ^2/NDF : 3890774.4/45

In: 0.007+/-0.000 χ^2/NDF :2995218.9/43

Out: 0.007+/-0.000 χ^2/NDF :3443182.2/49

All: 0.007+/-0.000 χ^2/NDF : 6438474.9/93

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.086 ± 0.000 $\chi^2/\text{NDF}: 26374873631.1/20$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.255 ± 0.000 $\chi^2/\text{NDF}: 28333445118.8/24$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

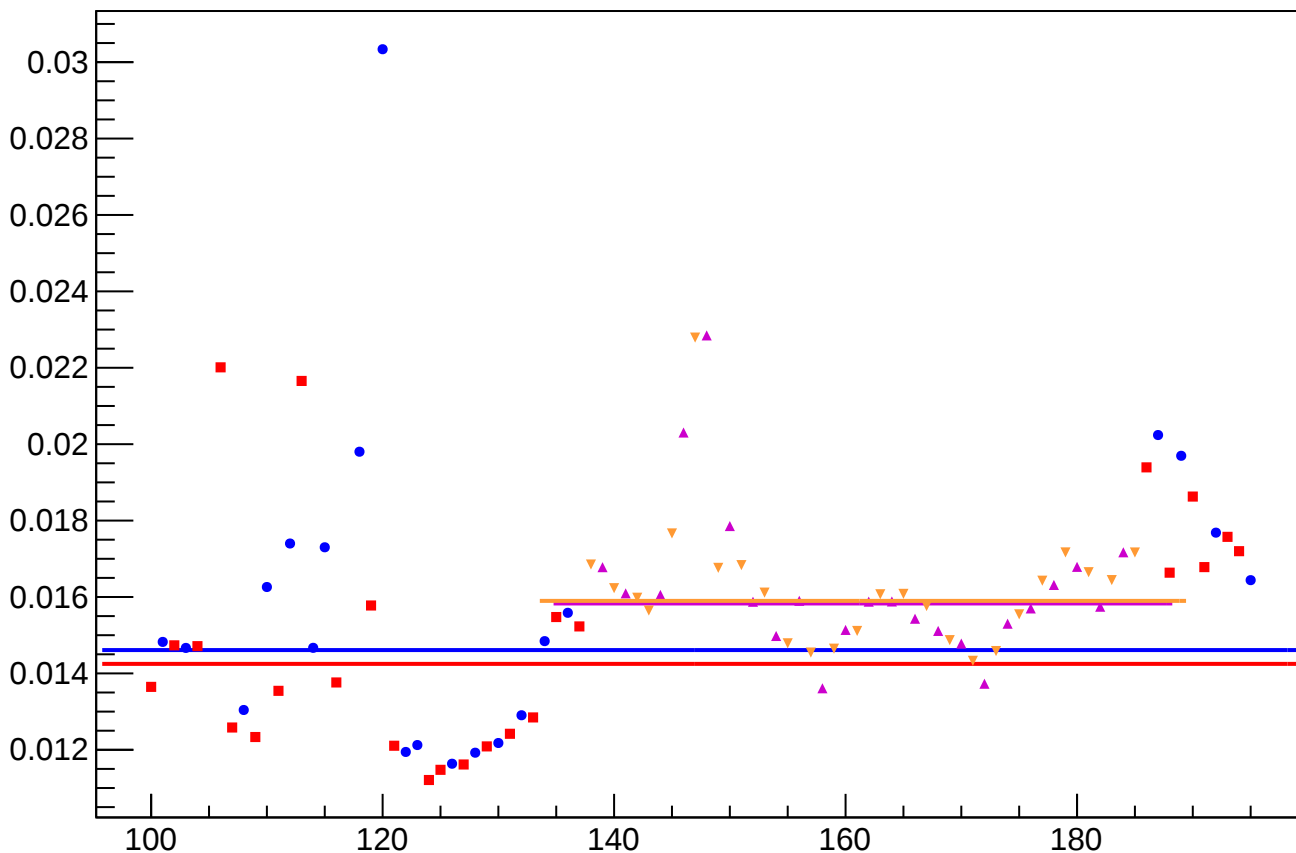
Right: -0.180 ± 0.000 $\chi^2/\text{NDF}: 55313568504.5/45$

In: -2.169 ± 0.000 $\chi^2/\text{NDF}: 293427800748.4/43$

Out: -2.078 ± 0.000 $\chi^2/\text{NDF}: 301120778404.5/49$

All: -2.121 ± 0.000 $\chi^2/\text{NDF}: 595004208696.8$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 587501.2/20

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

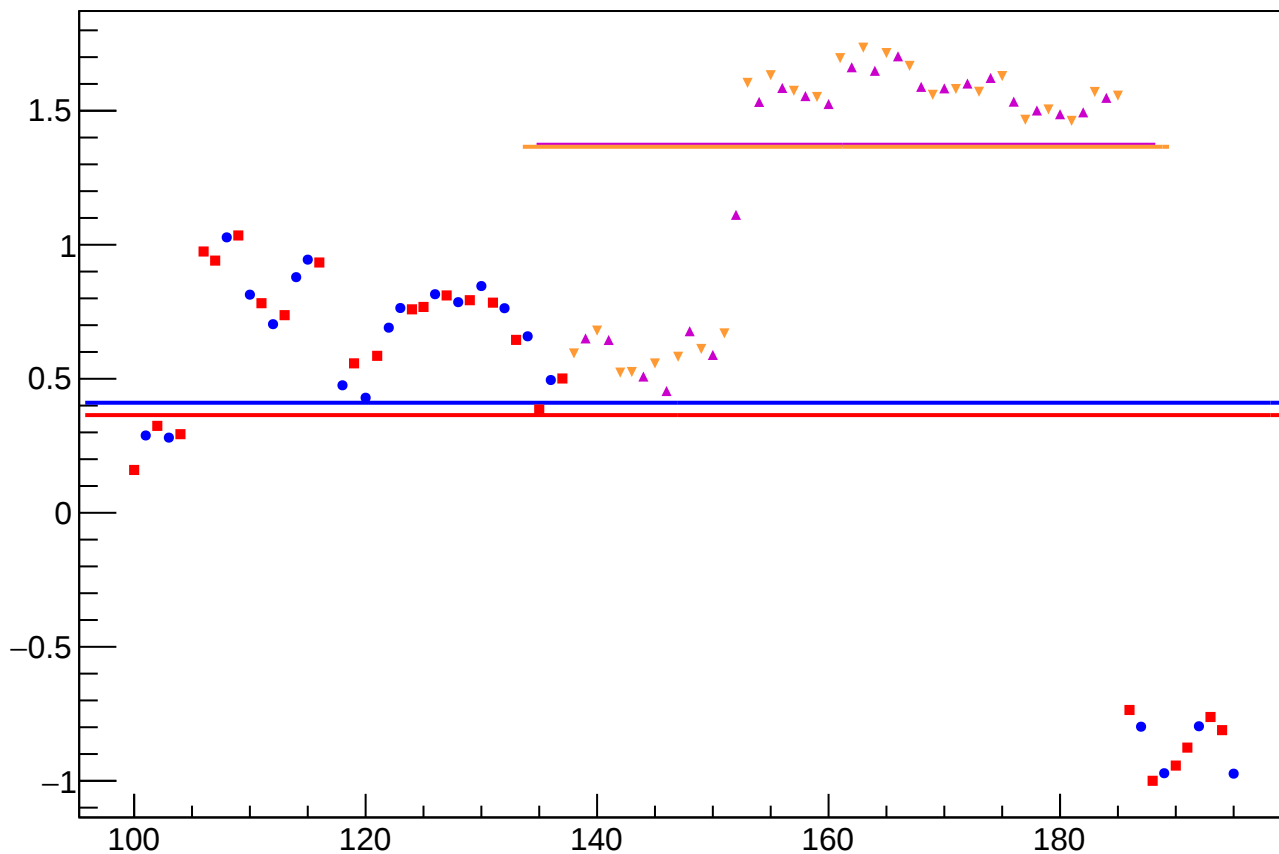
Right: 0.014+/-0.000 χ^2/NDF : 1182047.3/45

In: 0.015+/-0.000 χ^2/NDF :998836.2/43

Out: 0.015+/-0.000 χ^2/NDF :994410.4/49

All: 0.015+/-0.000 χ^2/NDF : 1995845.5/93

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.411+/-0.000

χ^2/NDF : 35181687861.4/20

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

Right: 0.385+/-0.000 χ^2/NDF : 84255841436.7/45

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 1.176+/-0.000 χ^2/NDF : 179737762196.5/43

Right Out: 0.365+/-0.000

χ^2/NDF : 48946565021.8/24

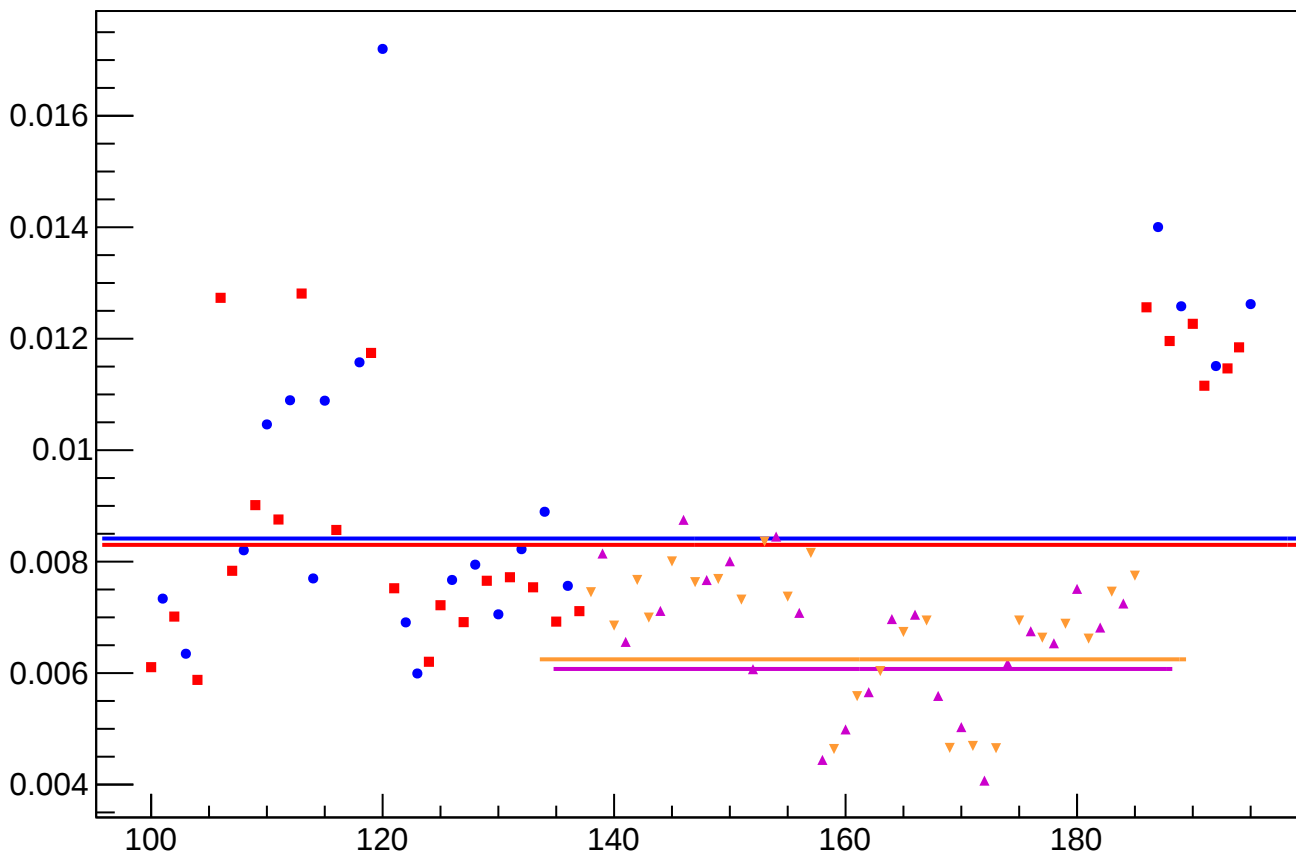
Out: 1.129+/-0.000 χ^2/NDF : 224625363744.9/49

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.152+/-0.000 χ^2/NDF : 404969784664.4

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 983646.1/20

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

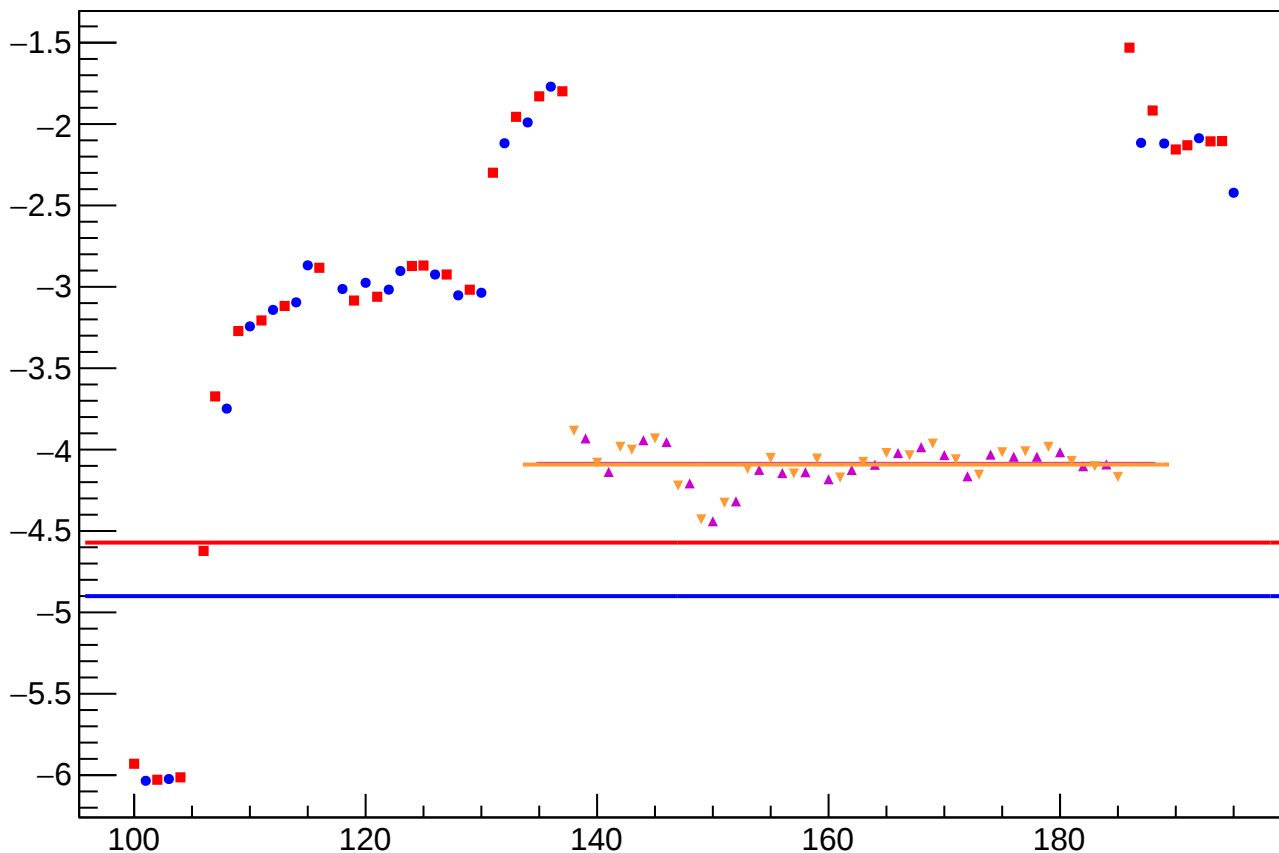
Right: 0.008+/-0.000 χ^2/NDF : 2142419.9/45

In: 0.007+/-0.000 χ^2/NDF :3375134.3/43

Out: 0.007+/-0.000 χ^2/NDF :3337763.6/49

All: 0.007+/-0.000 χ^2/NDF : 6730431.4/93

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.900+/-0.000

χ^2/NDF : 196852097791.3/20

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right: -4.746+/-0.000

χ^2/NDF : 415873969376.0/45

Right Out: -4.571+/-0.000

χ^2/NDF : 215675971648.0/24

In: -4.851+/-0.000

χ^2/NDF : 199531476110.4/43

Out: -4.548+/-0.000

χ^2/NDF : 216361693305.4/49

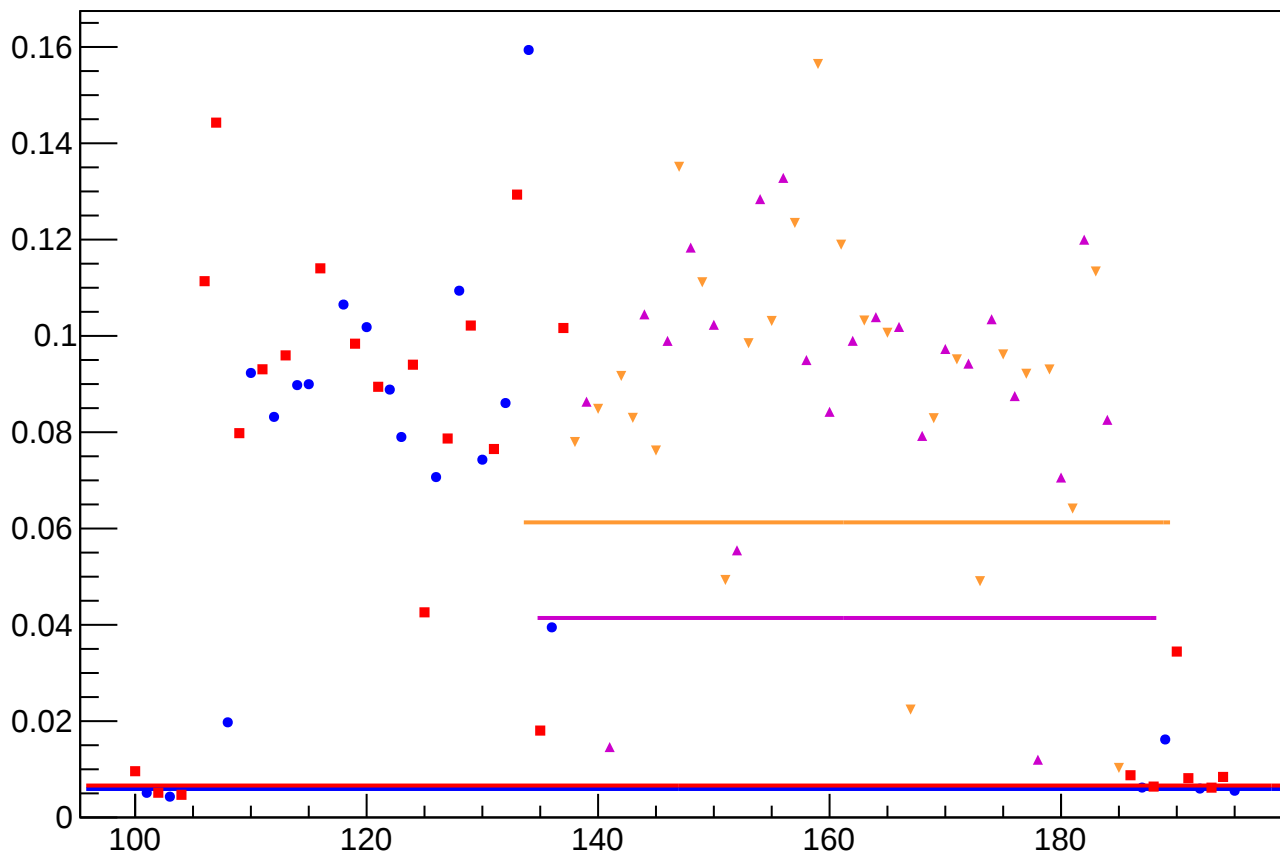
Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

All: -4.710+/-0.000

χ^2/NDF : 418893199335.6/100

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 7992121.2/20

Left Out: 0.061 $\pm$ 0.000 χ^2 /NDF:8355266.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 8689459.9/24

Left In: 0.041 $\pm$ 0.000 χ^2 /NDF:13124468.7/22

Left: 0.050 $\pm$ 0.000 χ^2 /NDF: 22855159.2/47

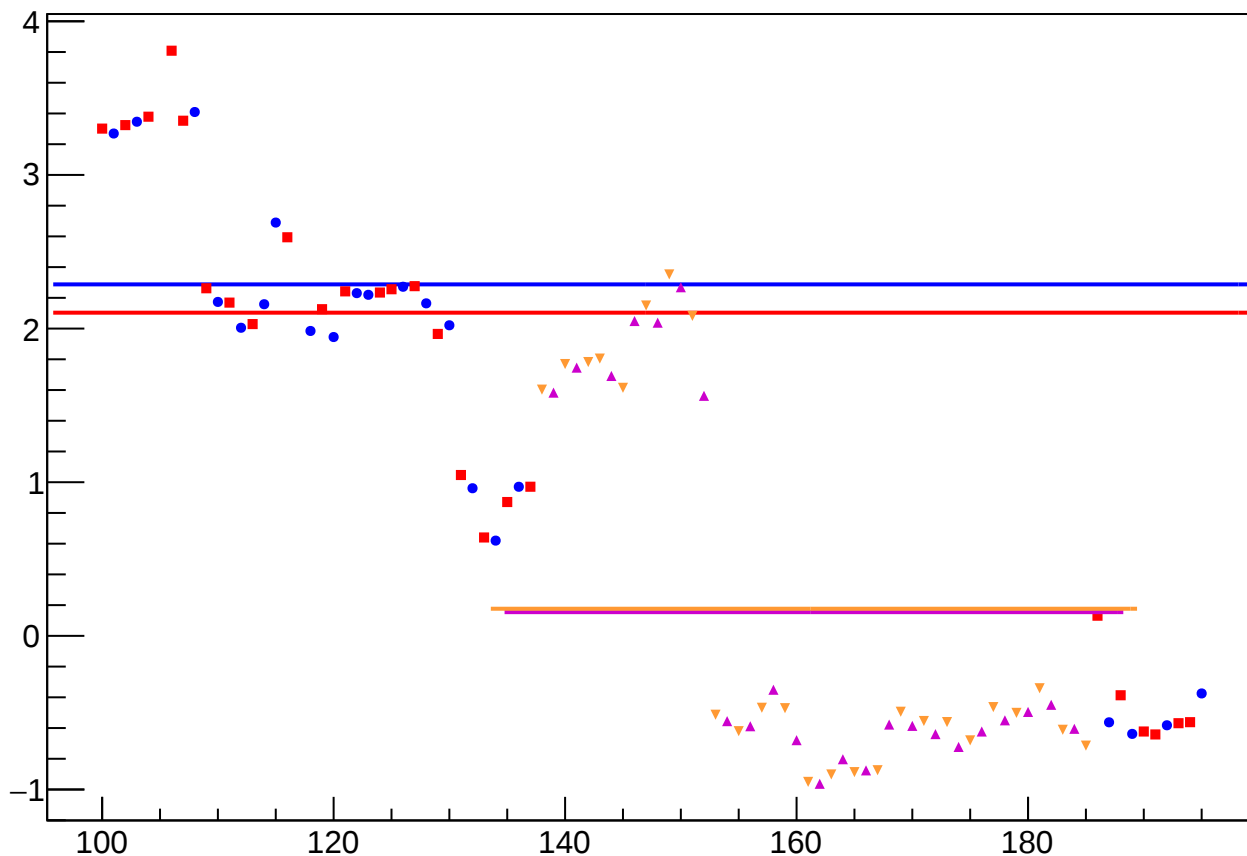
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 16713171.5/45

In: 0.008 $\pm$ 0.000 χ^2 /NDF:31220033.5/43

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:33827327.7/49

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 65142914.5/93

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 2.288 $\pm$ 0.000 χ^2 /NDF: 107957634306.0/20

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF: 3275313367.7/24

Right Out: 2.103 $\pm$ 0.000 χ^2 /NDF: 121694250651.3/24

Left In: 0.154 $\pm$ 0.000 χ^2 /NDF: 3163553595.0/22

Left: 0.165 $\pm$ 0.000 χ^2 /NDF: 6439465655.5/47

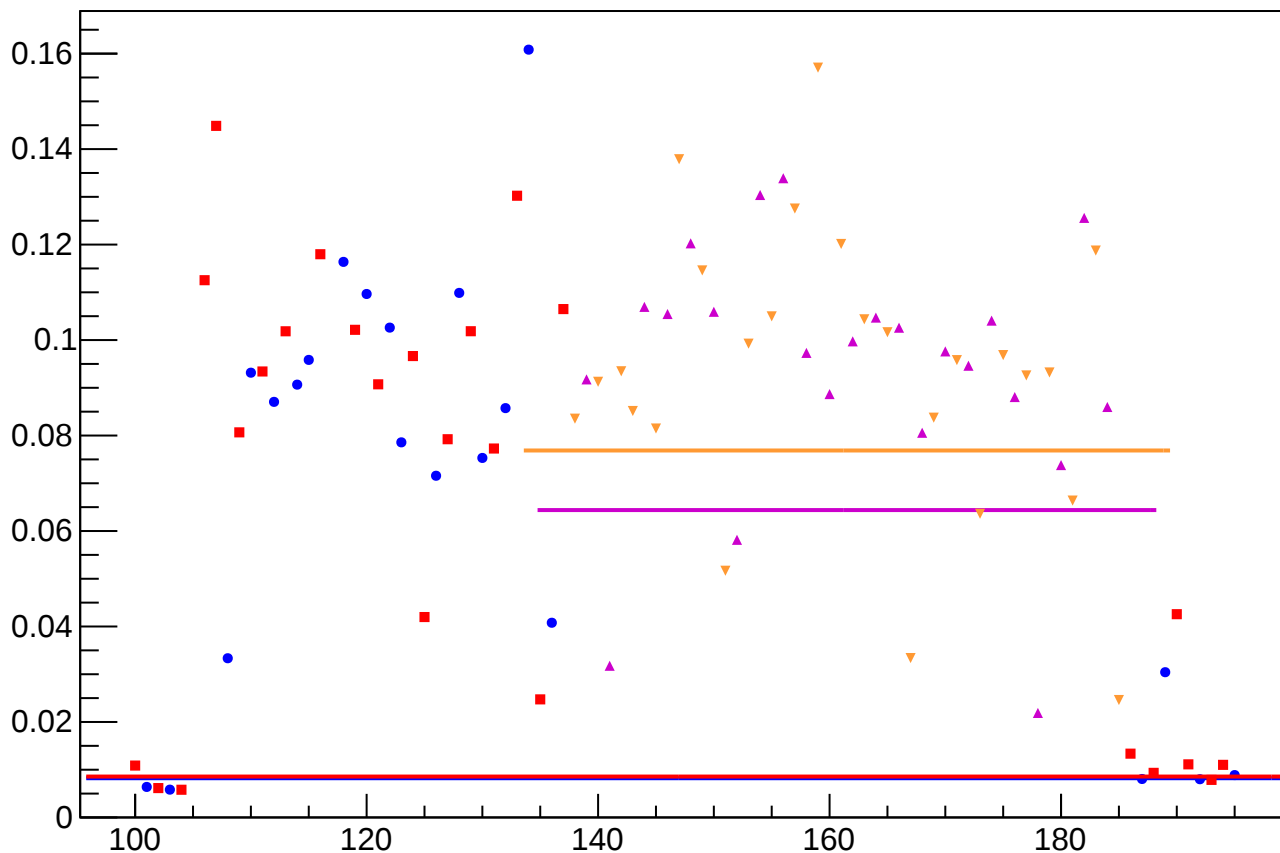
Right: 2.196 $\pm$ 0.000 χ^2 /NDF: 230309508214.9/45

In: 2.155 $\pm$ 0.000 χ^2 /NDF: 122128741724.6/43

Out: 1.997 $\pm$ 0.000 χ^2 /NDF: 132921221330.0/49

All: 2.076 $\pm$ 0.000 χ^2 /NDF: 255563477471.7

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7895700.9/20

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

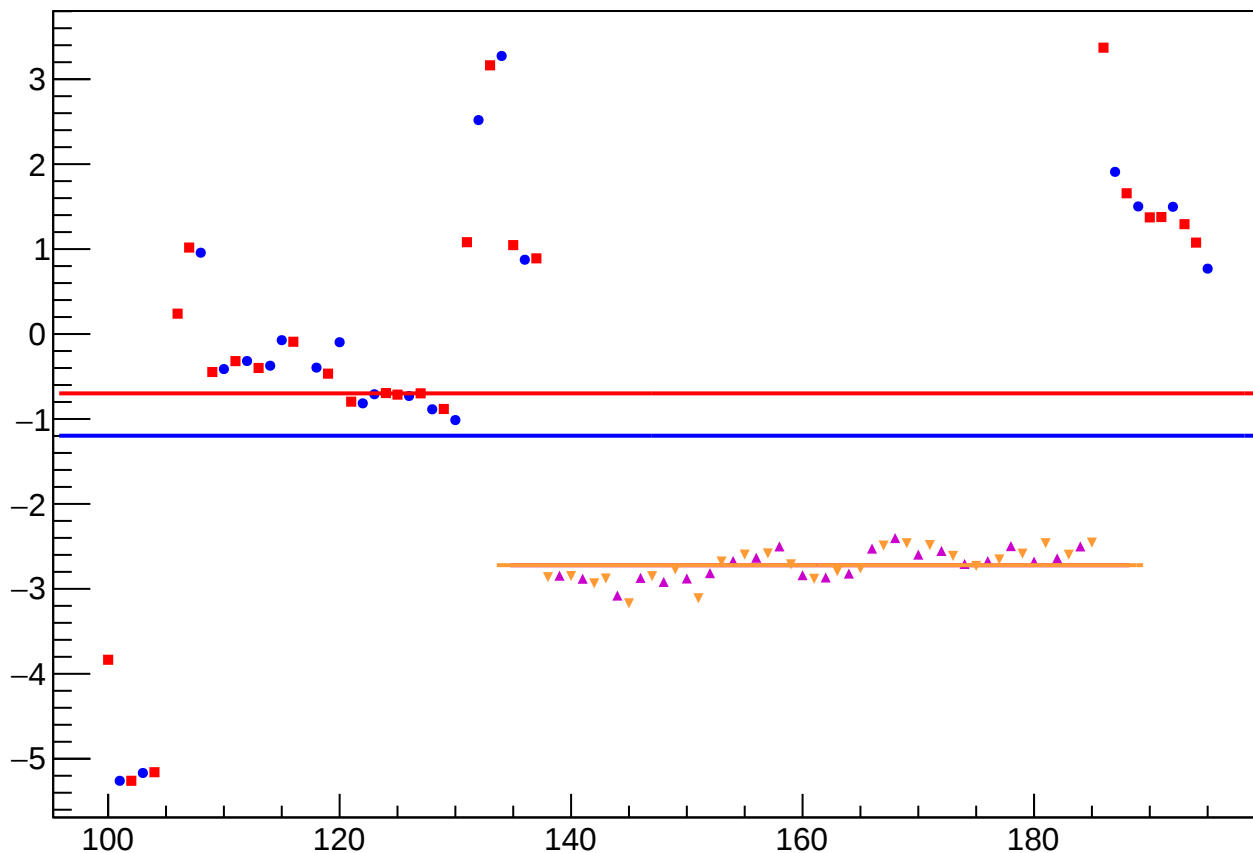
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16483651.4/45

In: 0.012 $\pm$ 0.000 χ^2 /NDF:30147105.1/43

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:32783070.4/49

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 62946460.4/93

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.197+/-0.000 χ^2/NDF : 201094929457.5/20

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.699+/-0.000 χ^2/NDF : 225163697884.7/24

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

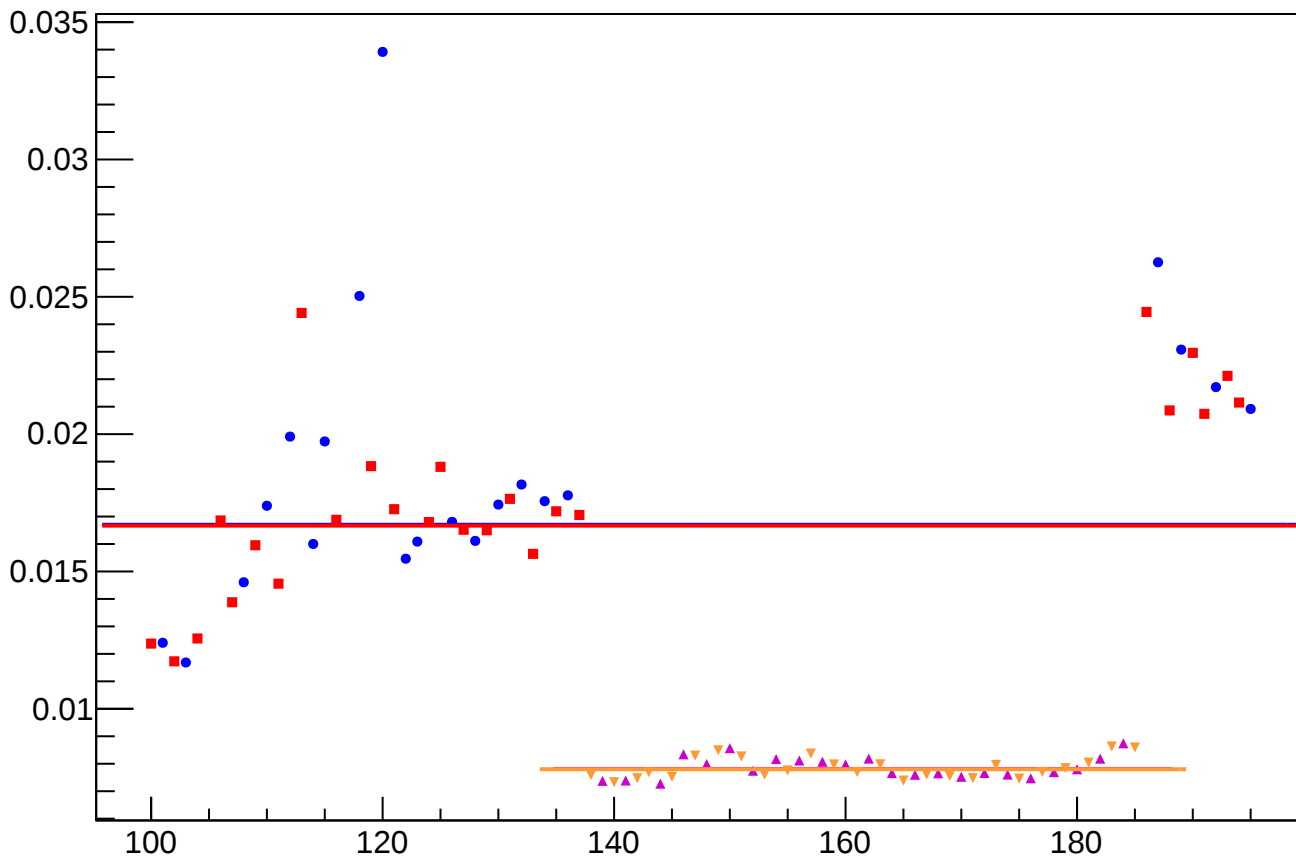
Right: -0.925+/-0.000 χ^2/NDF : 430022285215.1/45

In: -2.582+/-0.000 χ^2/NDF : 267699727421.8/43

Out: -2.513+/-0.000 χ^2/NDF : 358158084844.3/49

All: -2.546+/-0.000 χ^2/NDF : 626600704213.5

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 895034.6/20

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

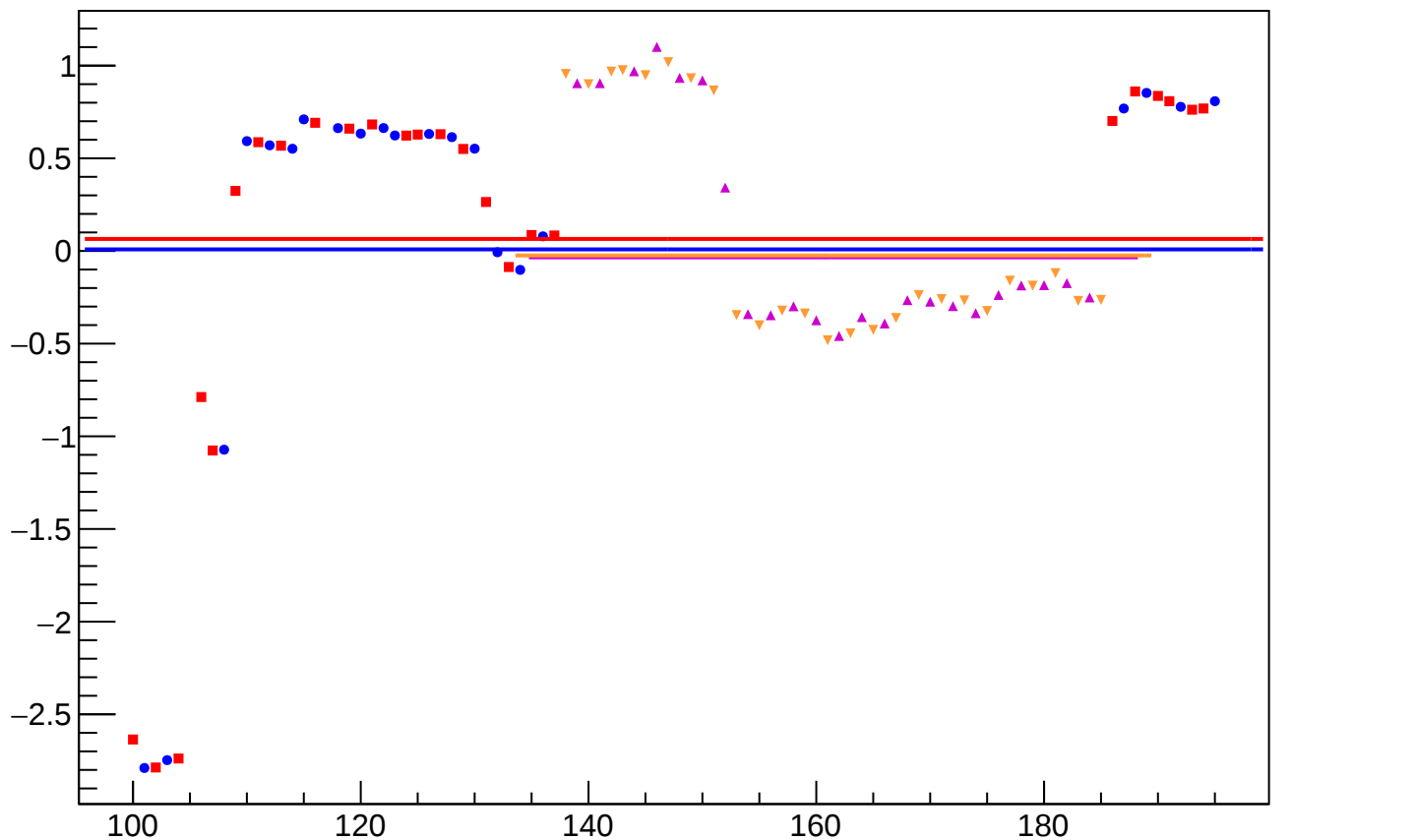
Right: 0.017+/-0.000 χ^2/NDF : 1707765.2/45

In: 0.009+/-0.000 χ^2/NDF : 4937239.6/43

Out: 0.009+/-0.000 χ^2/NDF : 5598539.0/49

All: 0.009+/-0.000 χ^2/NDF : 10538119.4/93

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 786410609867.9/20

Left Out: -0.024+/-0.000 χ^2/NDF : 135451649275.0/24

Right Out: 0.065+/-0.000 χ^2/NDF : 859877837226.7/24

Left In: -0.034+/-0.000 χ^2/NDF : 113929060918.1/22

Left: -0.029+/-0.000 χ^2/NDF : 249405201350.6/47

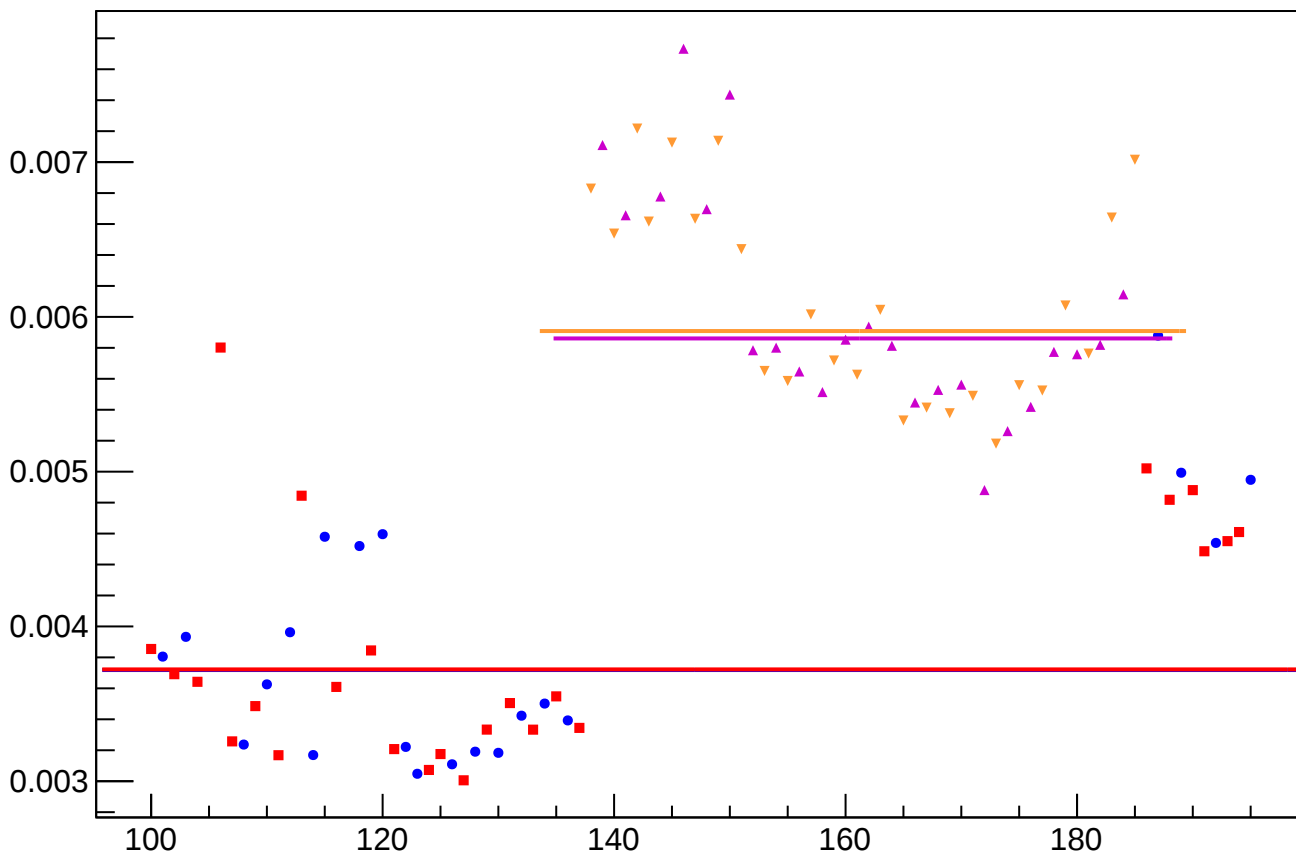
Right: 0.039+/-0.000 χ^2/NDF : 1647321244539.9/45

In: -0.010+/-0.000 χ^2/NDF : 900826213631.6/43

Out: 0.029+/-0.000 χ^2/NDF : 997603440683.2/49

All: 0.010+/-0.000 χ^2/NDF : 1899274798855.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 467740.0/20

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

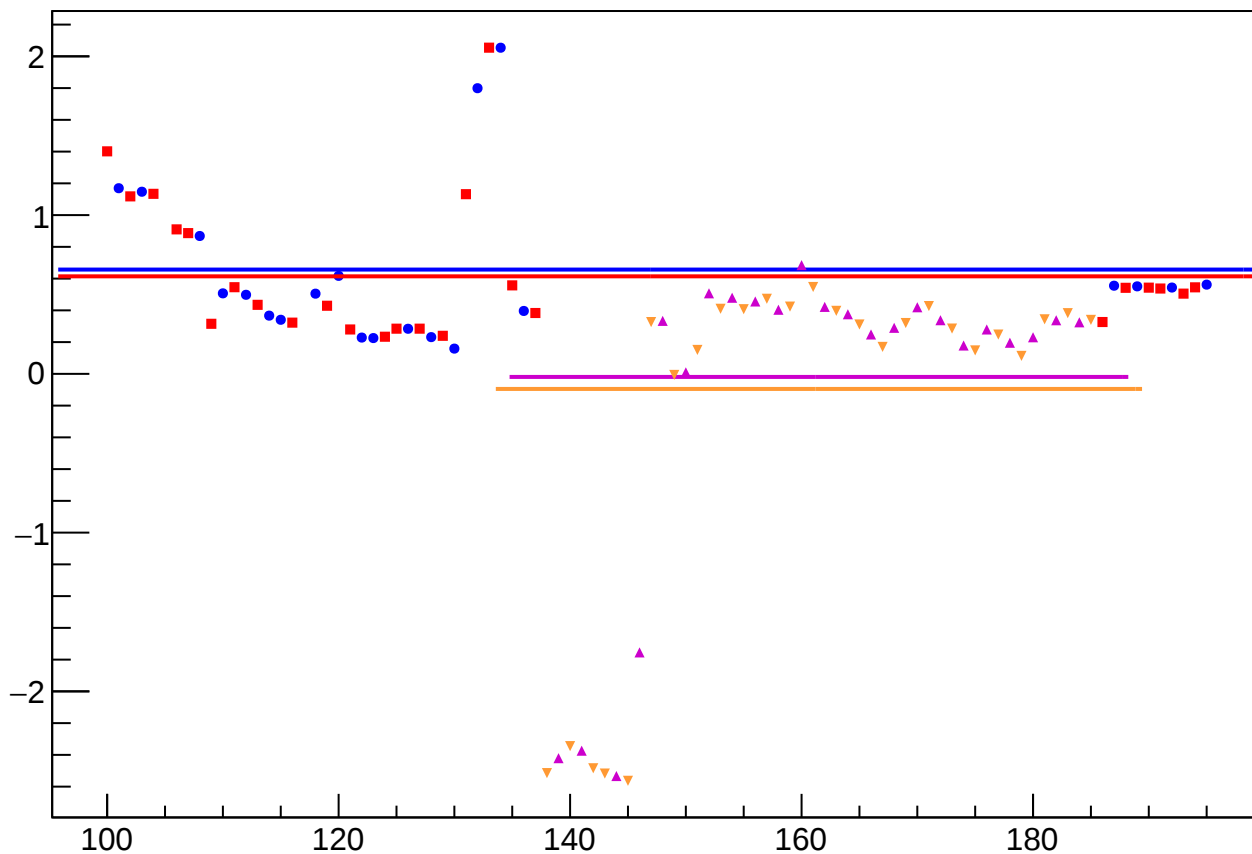
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1049432.2/45

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3251802.6/43

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:3636129.5/49

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 6889519.2/93

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.657 $\pm$ 0.000

χ^2/NDF : 38302679204.6/20

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: 0.633 $\pm$ 0.000

χ^2/NDF : 83732997000.5/45

Right Out: 0.614 $\pm$ 0.000

χ^2/NDF : 45049760715.5/24

In: 0.270 $\pm$ 0.000

χ^2/NDF : 551811770092.5/43

Out: 0.249 $\pm$ 0.000

χ^2/NDF : 676474084772.4/49

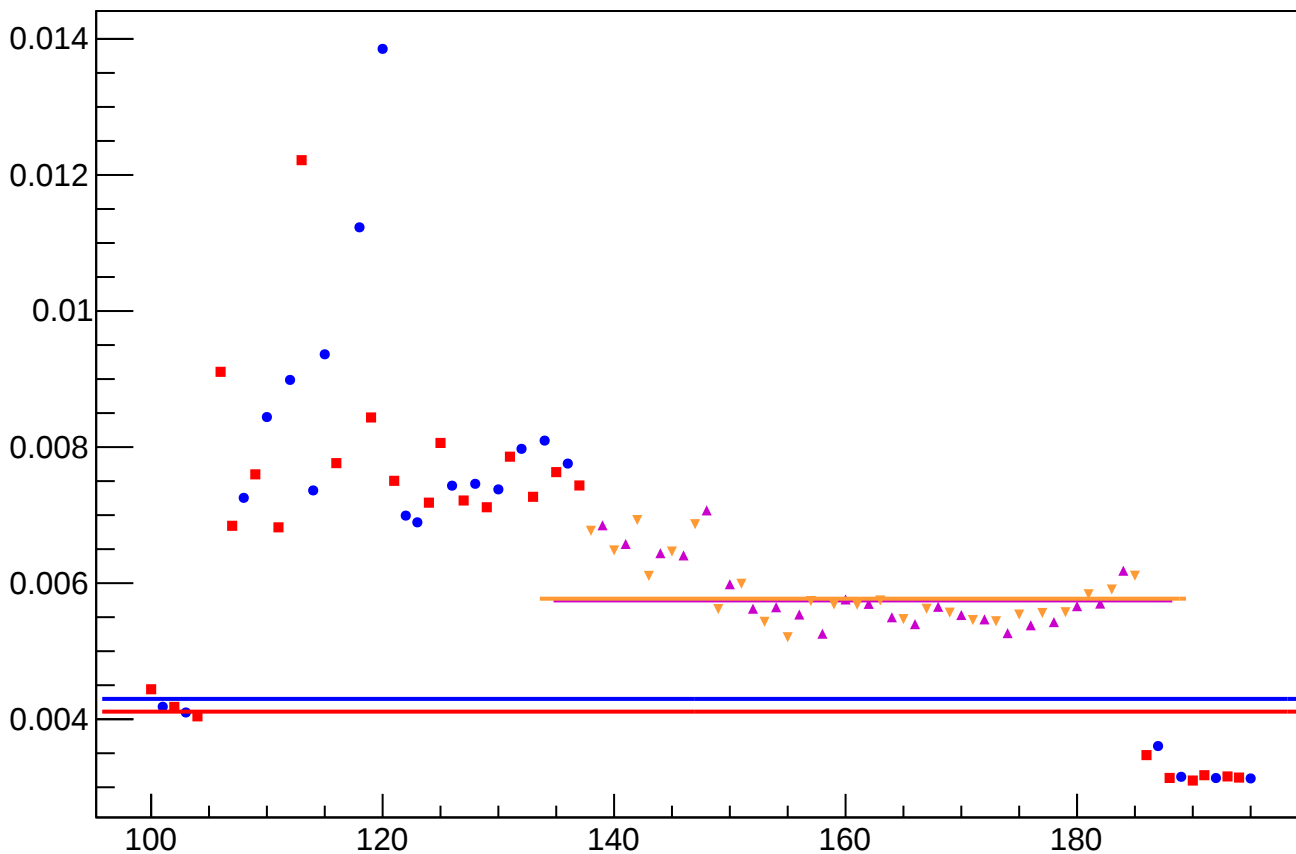
Left In: -0.019 $\pm$ 0.000

χ^2/NDF : 417104863944.5/22

All: 0.259 $\pm$ 0.000

χ^2/NDF : 1228476101106.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2800719.3/20

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

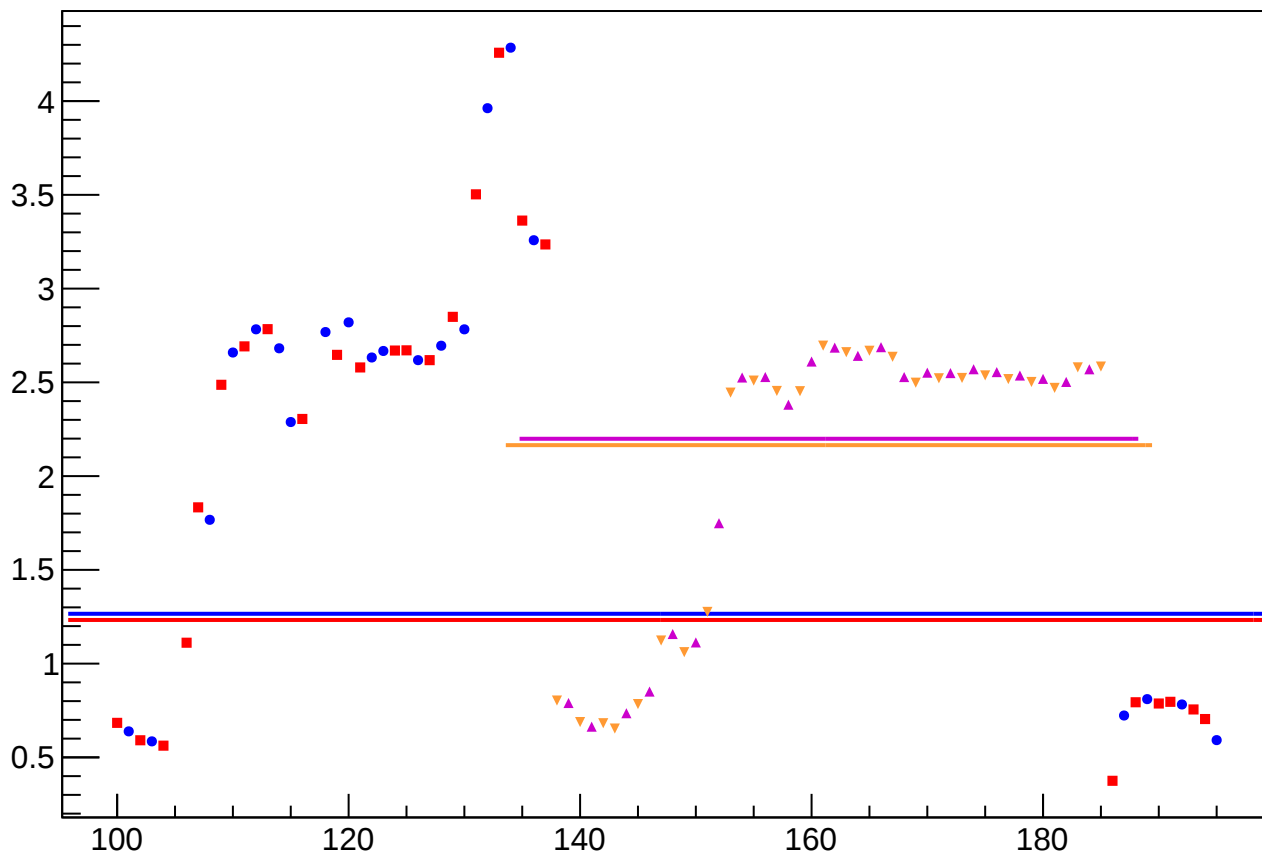
Right: 0.004+/-0.000 χ^2/NDF : 5728385.6/45

In: 0.005+/-0.000 χ^2/NDF :3888296.0/43

Out: 0.005+/-0.000 χ^2/NDF :4469778.8/49

All: 0.005+/-0.000 χ^2/NDF : 8382367.3/93

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.266+/-0.000 χ^2/NDF : 248051935544.6/20

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.233+/-0.000 χ^2/NDF : 298488202732.7/24

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

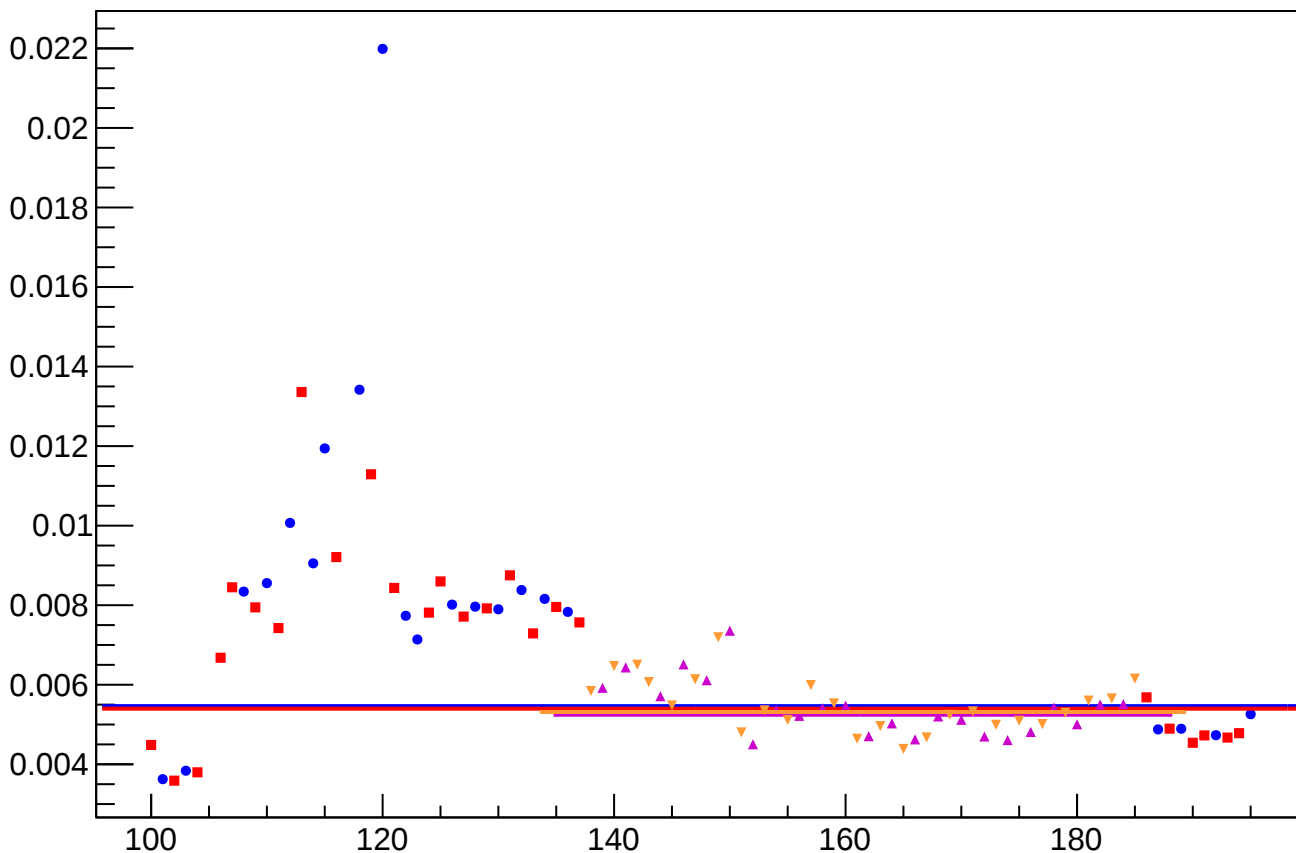
Right: 1.248+/-0.000 χ^2/NDF : 546681927633.4/45

In: 1.927+/-0.000 χ^2/NDF : 646554450724.7/43

Out: 1.855+/-0.000 χ^2/NDF : 761207966287.3/49

All: 1.889+/-0.000 χ^2/NDF : 1409965938196.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2003460.6/20

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

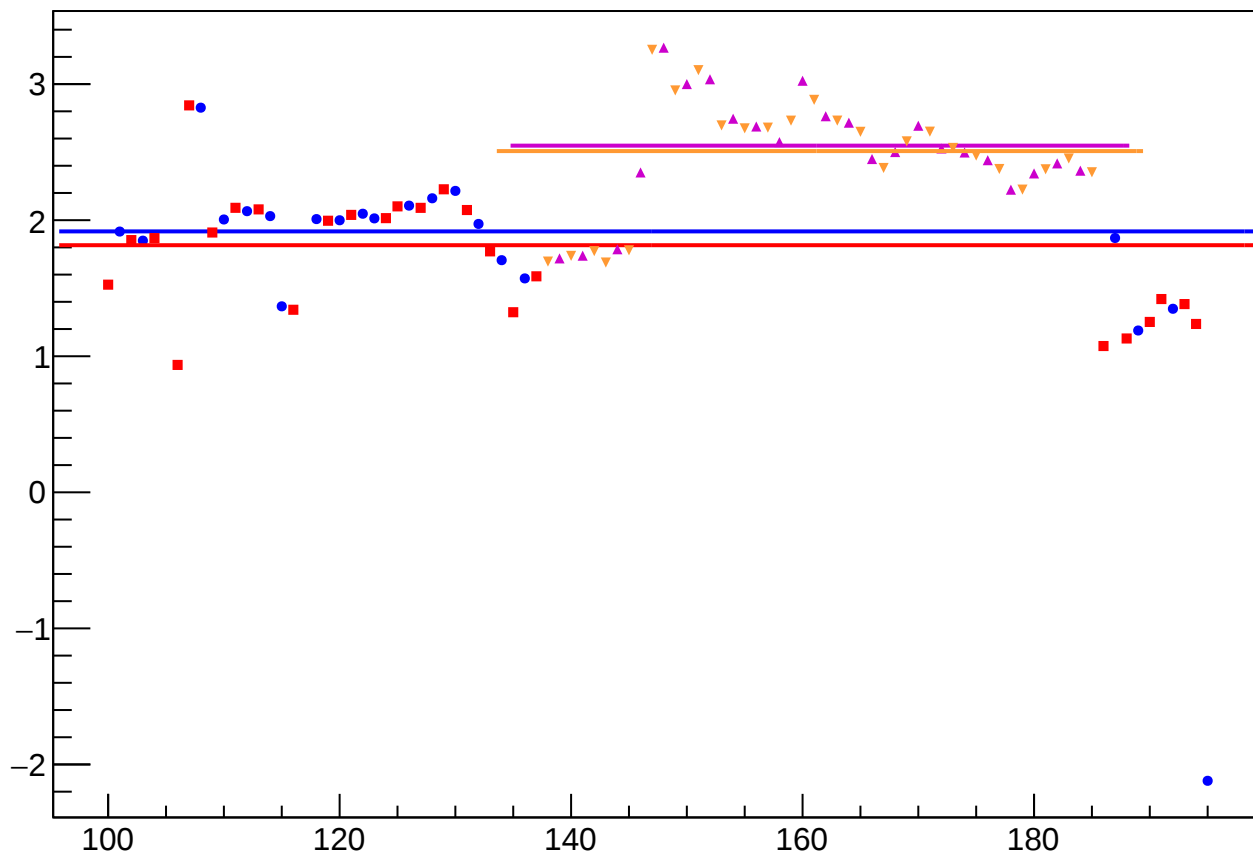
Right: 0.005+/-0.000 χ^2/NDF : 3879363.5/45

In: 0.005+/-0.000 χ^2/NDF :2445068.4/43

Out: 0.005+/-0.000 χ^2/NDF :2276288.7/49

All: 0.005+/-0.000 χ^2/NDF : 4722328.6/93

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.918 $\pm$ 0.000 χ^2 /NDF: 36973382236.0/20

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

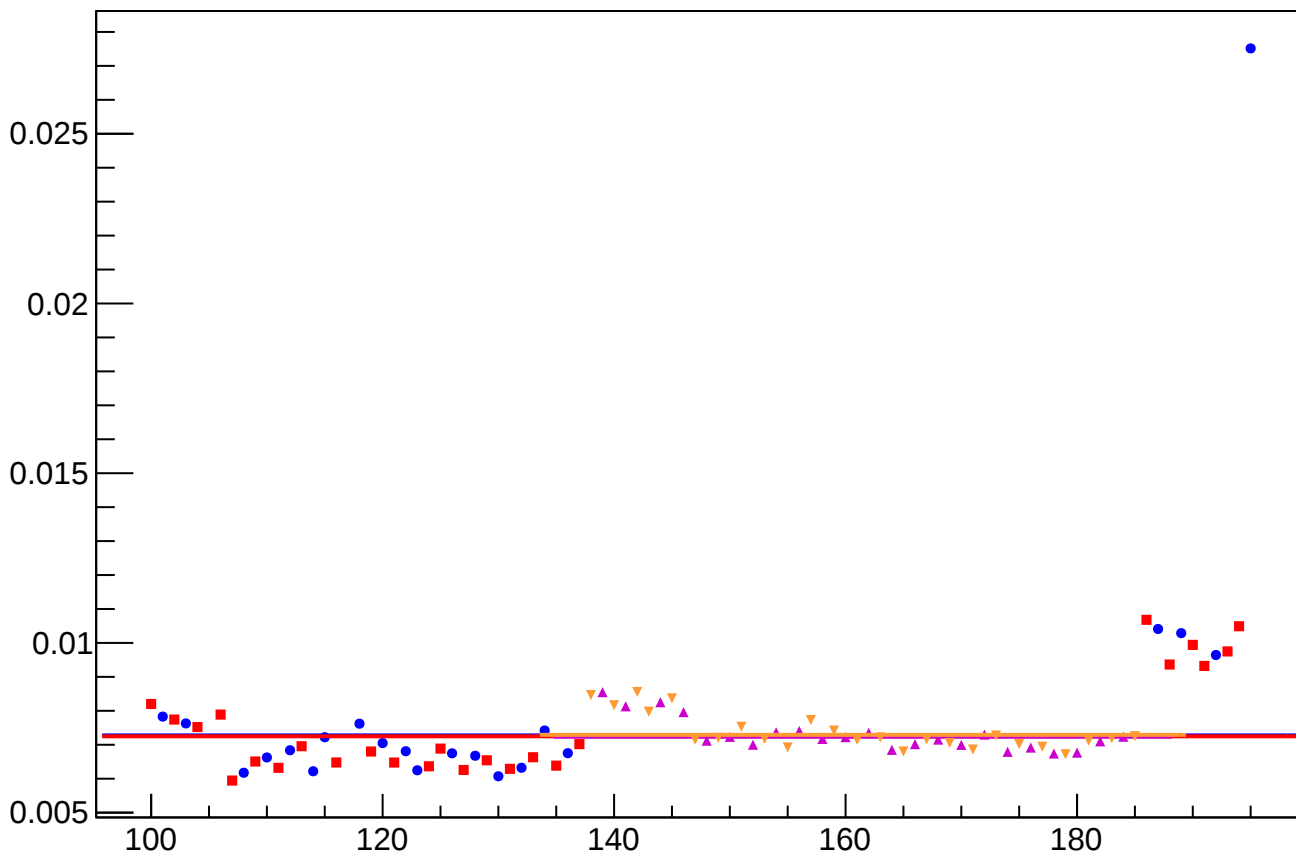
Right: 1.862 $\pm$ 0.000 χ^2 /NDF: 73260091436.8/45

In: 2.343 $\pm$ 0.000 χ^2 /NDF: 123235809723.5/43

Out: 2.258 $\pm$ 0.000 χ^2 /NDF: 144460026306.7/49

All: 2.299 $\pm$ 0.000 χ^2 /NDF: 269452733321.9

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 1253646.0/20

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

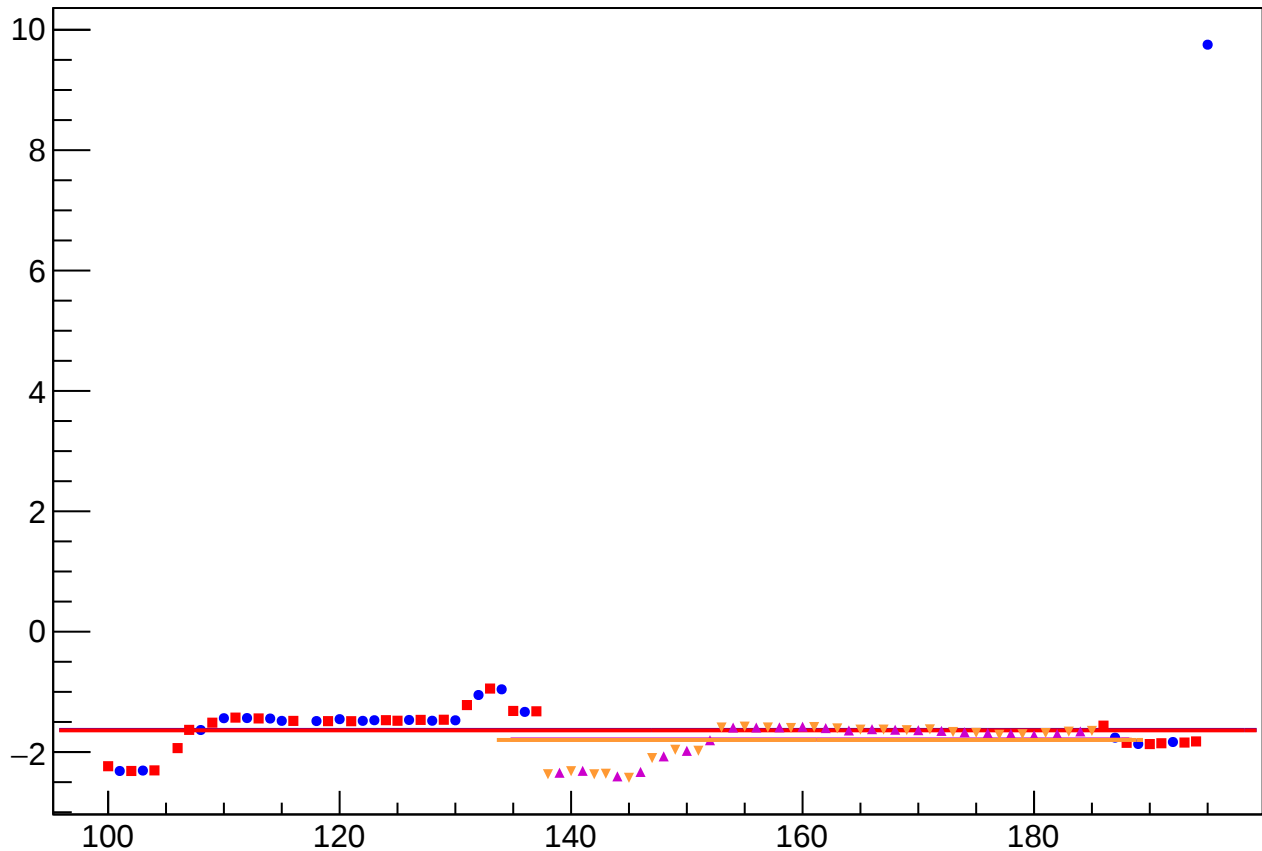
Right: 0.007+/-0.000 χ^2/NDF : 1901467.5/45

In: 0.007+/-0.000 χ^2/NDF :1379165.8/43

Out: 0.007+/-0.000 χ^2/NDF :788919.6/49

All: 0.007+/-0.000 χ^2/NDF : 2168421.0/93

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.632+/-0.000 χ^2/NDF : 175785894250.6/20

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

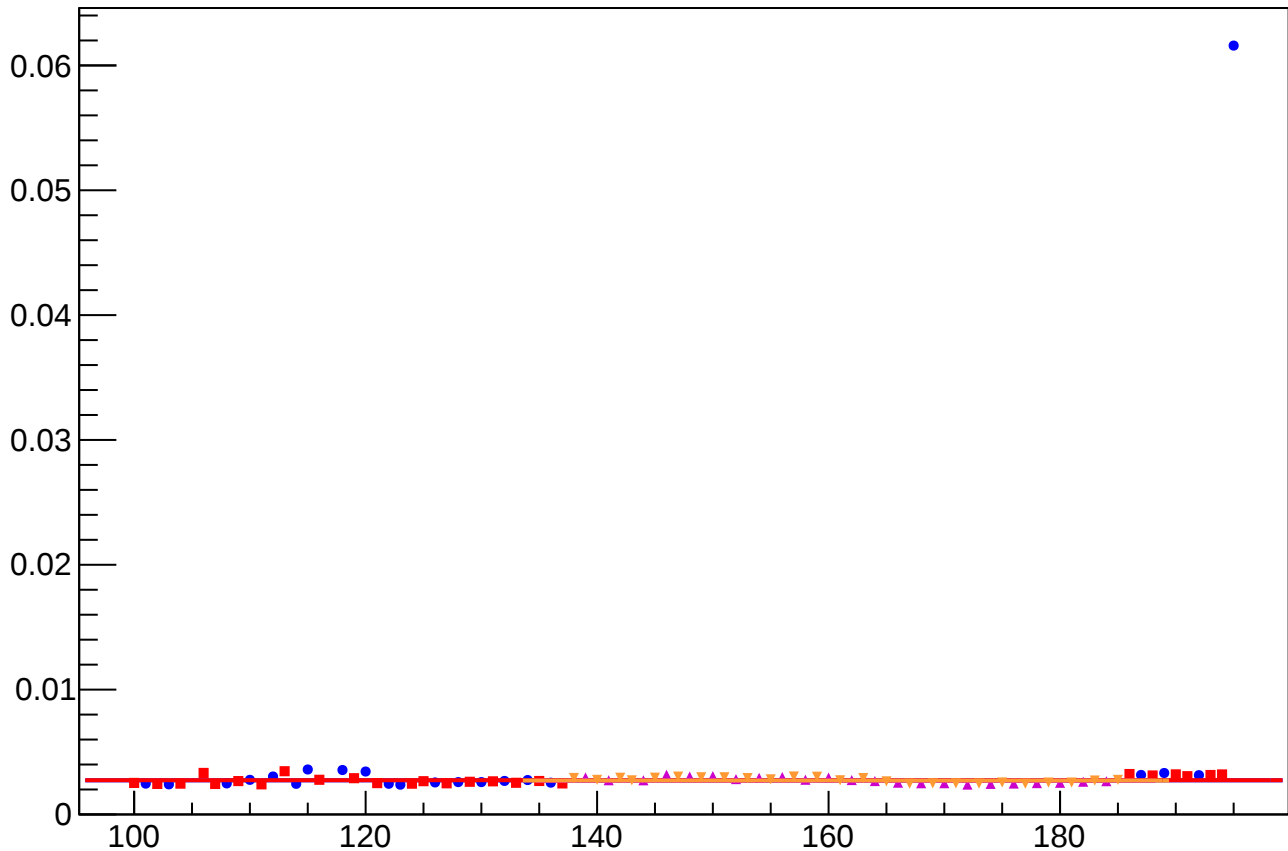
Right: -1.636+/-0.000 χ^2/NDF : 334474596015.5/45

In: -1.741+/-0.000 χ^2/NDF : 353238090864.6/43

Out: -1.743+/-0.000 χ^2/NDF : 365354373009.1/49

All: -1.742+/-0.000 χ^2/NDF : 718599347242.8

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1764256.3/20

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

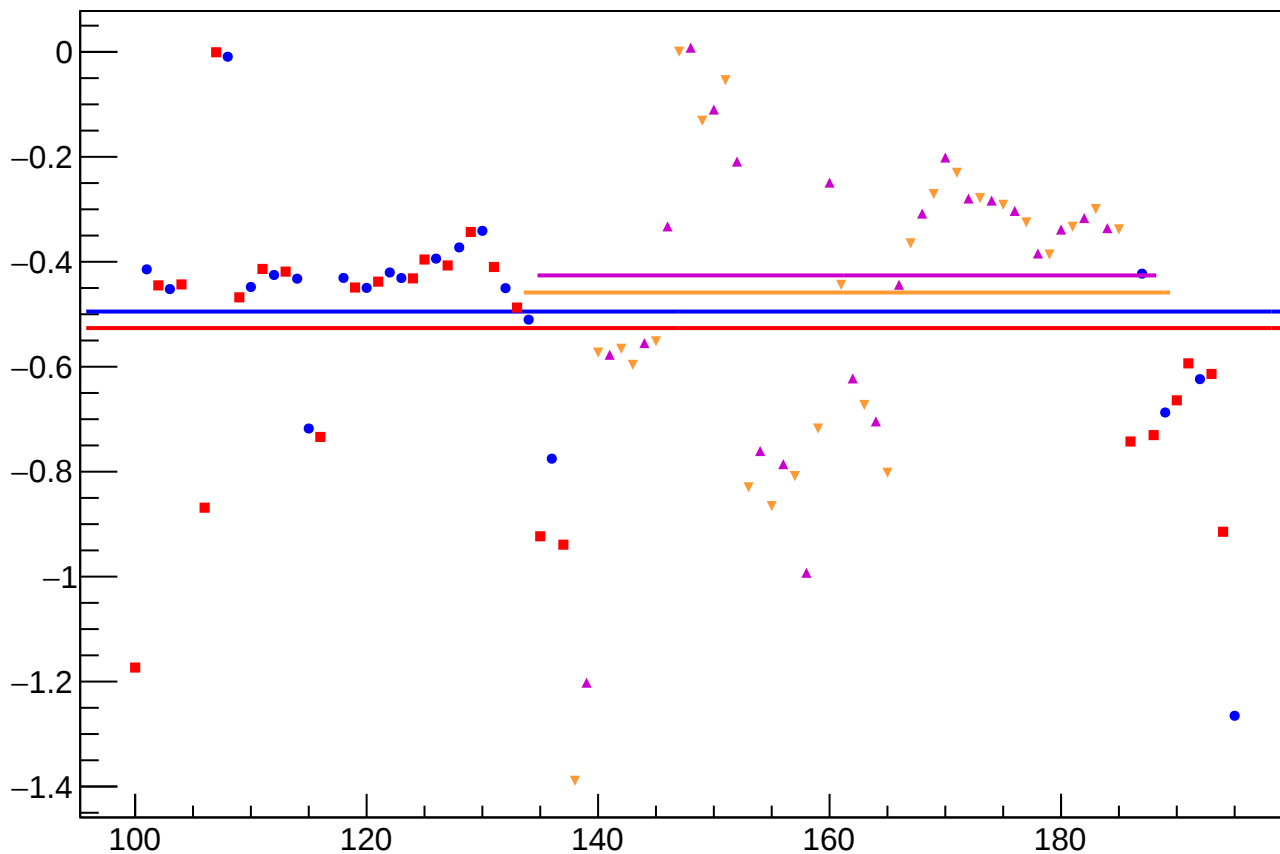
Right: 0.003+/-0.000 χ^2/NDF : 2016484.4/45

In: 0.003+/-0.000 χ^2/NDF :1986001.9/43

Out: 0.003+/-0.000 χ^2/NDF :452886.5/49

All: 0.003+/-0.000 χ^2/NDF : 2439839.6/93

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.495+/-0.000 χ^2/NDF : 3362348234.2/20

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

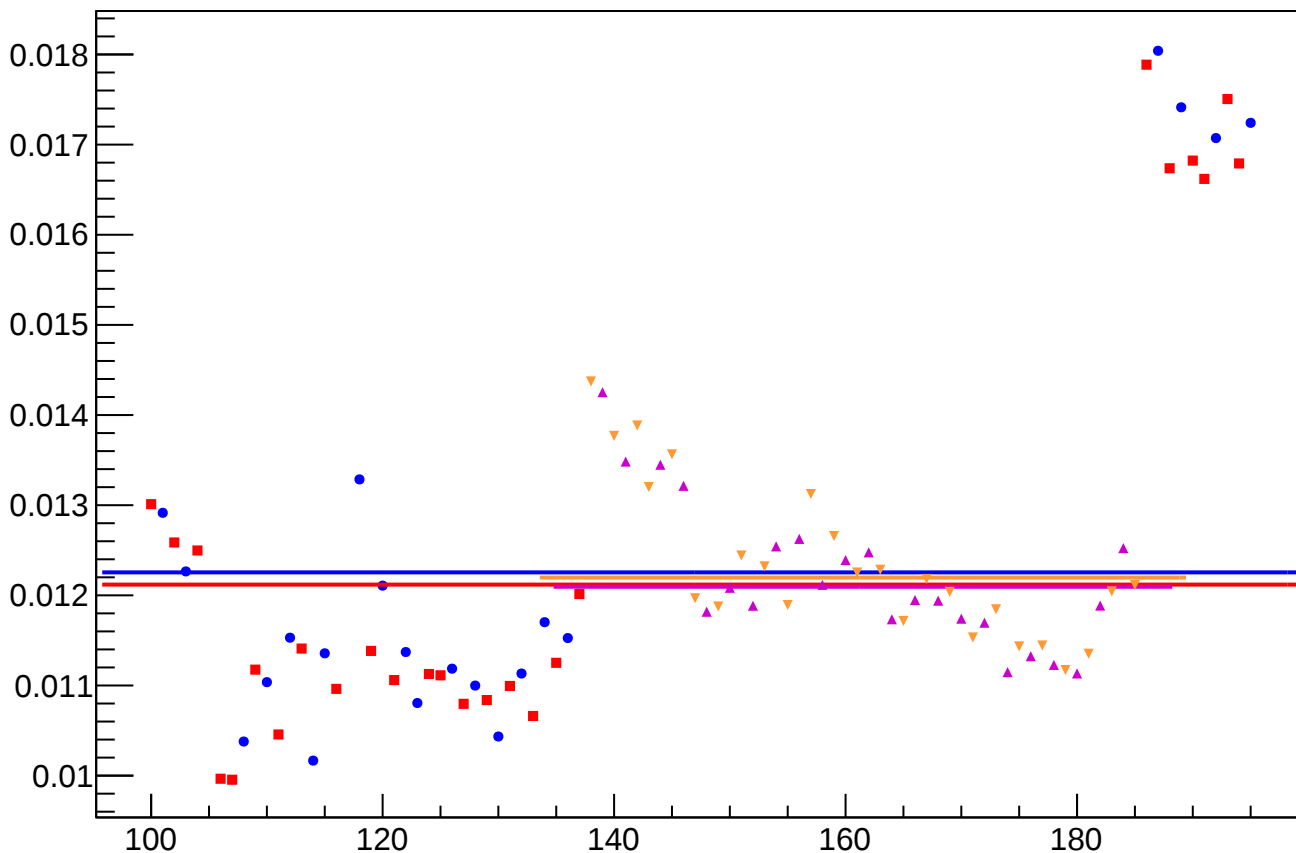
Right: -0.512+/-0.000 χ^2/NDF : 6878287584.1/45

In: -0.449+/-0.000 χ^2/NDF : 11966209657.1/43

Out: -0.483+/-0.000 χ^2/NDF : 13599767646.1/49

All: -0.467+/-0.000 χ^2/NDF : 25670340829.6/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 517720.6/20

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:141850.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 736161.1/24

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:127308.3/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 270367.5/47

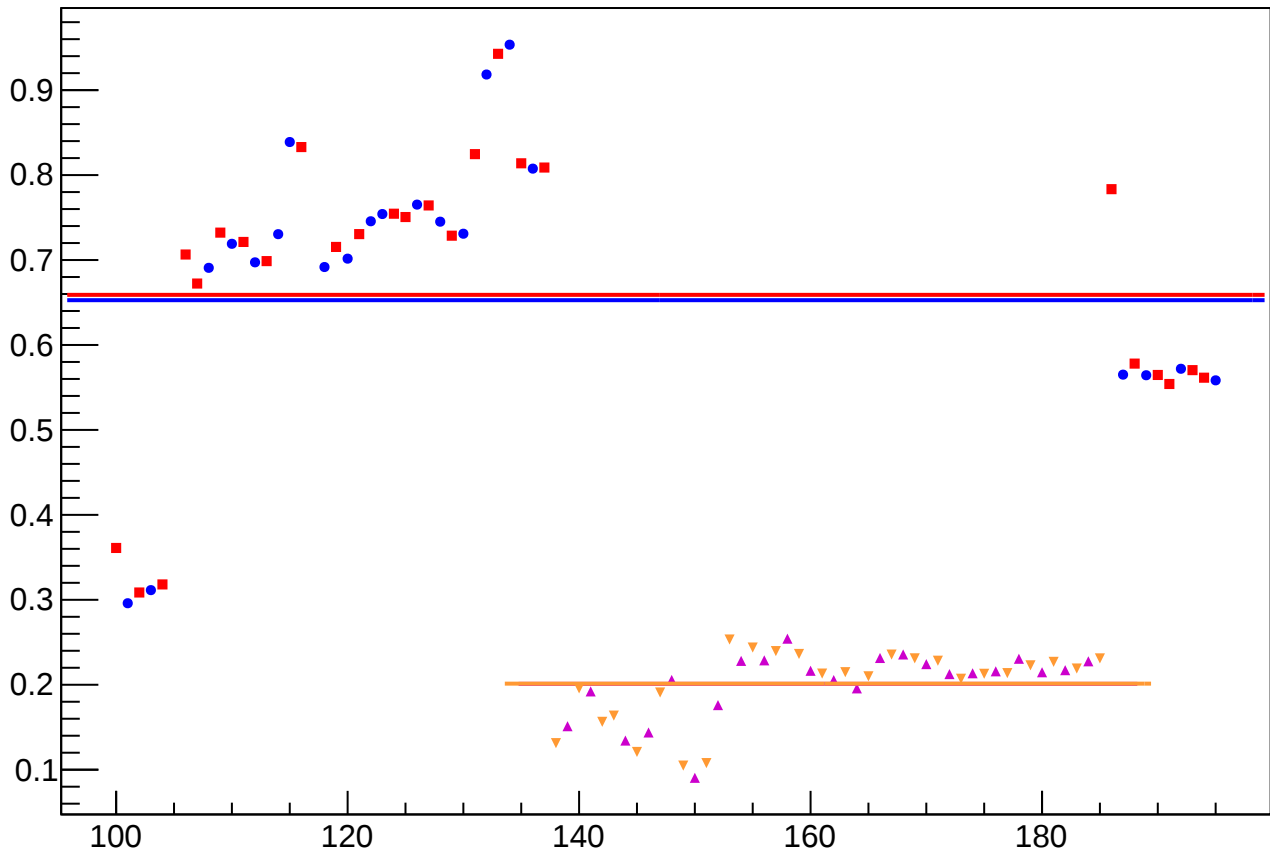
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 1255017.8/45

In: 0.012 $\pm$ 0.000 χ^2 /NDF:646958.5/43

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:878537.9/49

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 1525570.2/93

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.653+/-0.000 χ^2/NDF : 41396673407.8/20

Left Out: 0.201+/-0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.659+/-0.000 χ^2/NDF : 40252598106.8/24

Left In: 0.201+/-0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201+/-0.000 χ^2/NDF : 12762673178.0/47

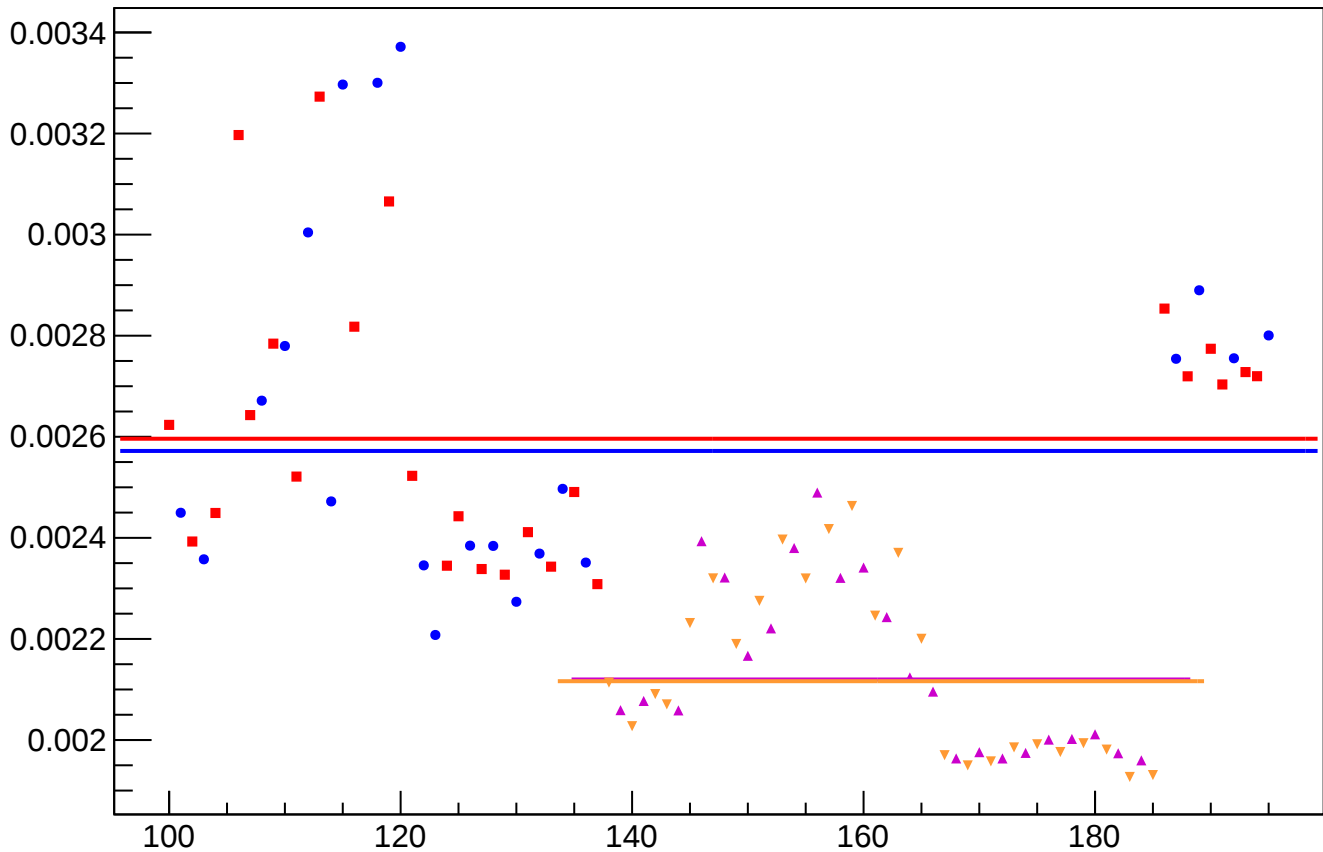
Right: 0.656+/-0.000 χ^2/NDF : 81676688953.0/45

In: 0.316+/-0.000 χ^2/NDF : 245278977494.3/43

Out: 0.324+/-0.000 χ^2/NDF : 275032001940.2/49

All: 0.320+/-0.000 χ^2/NDF : 520480685055.0

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 214201.2/20

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

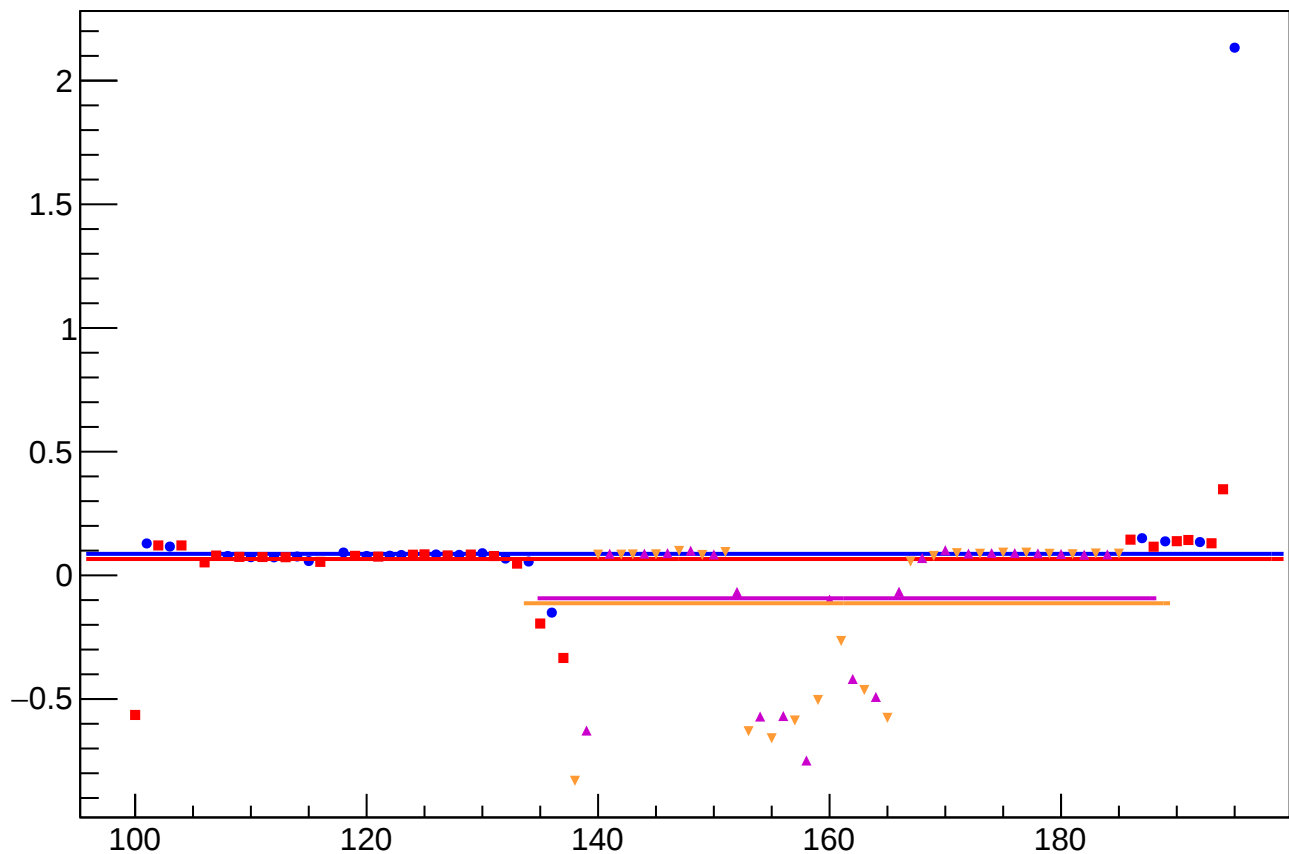
Right: 0.003+/-0.000 χ^2/NDF : 374362.7/45

In: 0.002+/-0.000 χ^2/NDF :800706.3/43

Out: 0.002+/-0.000 χ^2/NDF :884145.5/49

All: 0.002+/-0.000 χ^2/NDF : 1685395.9/93

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.087+/-0.000

χ^2/NDF : 4177065051.0/20

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.075+/-0.000

χ^2/NDF : 5308246891.5/45

Right Out: 0.066+/-0.000

χ^2/NDF : 1113411422.5/24

In: -0.030+/-0.000

χ^2/NDF : 16789315730.8/43

Out: -0.044+/-0.000

χ^2/NDF : 16563031550.9/49

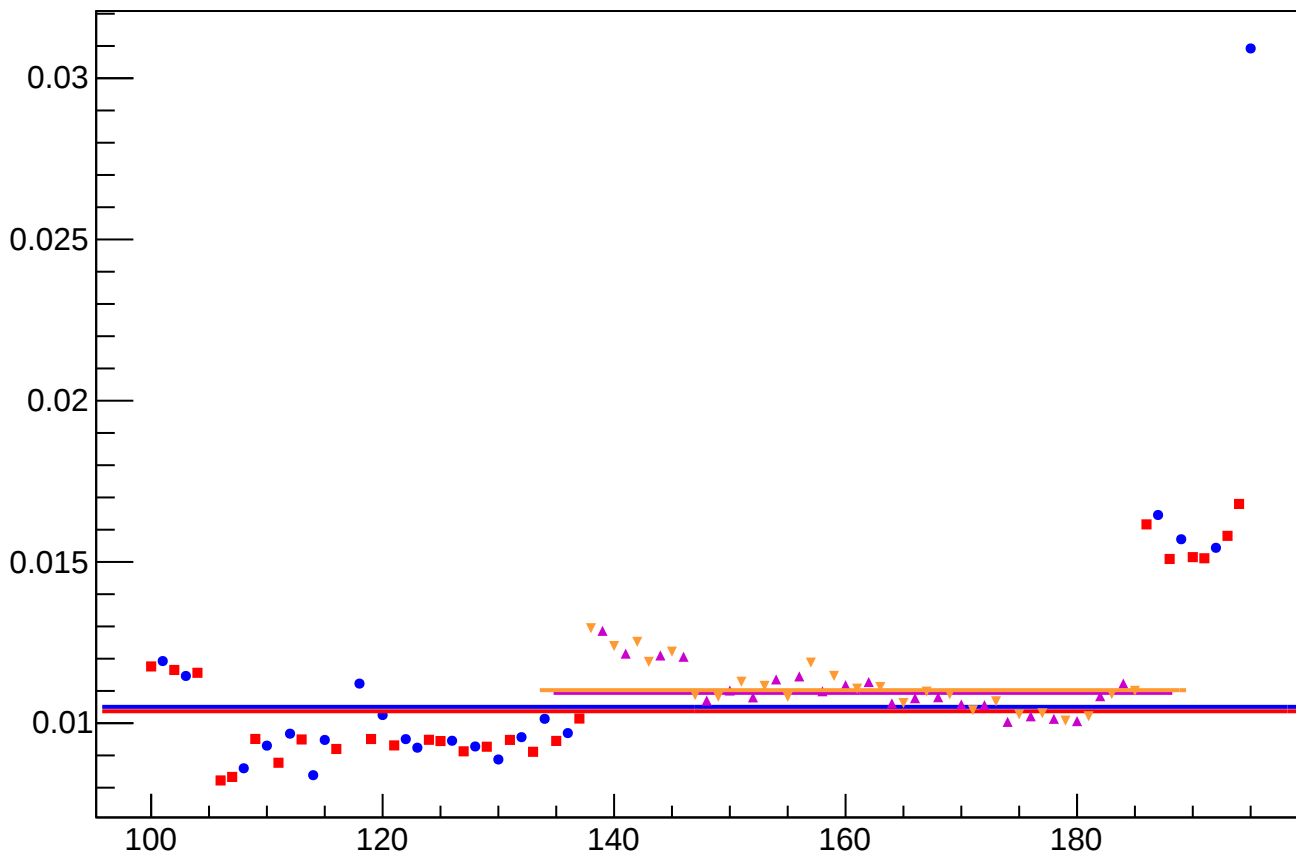
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: -0.037+/-0.000

χ^2/NDF : 33373954003.3/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1242898.2/20

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

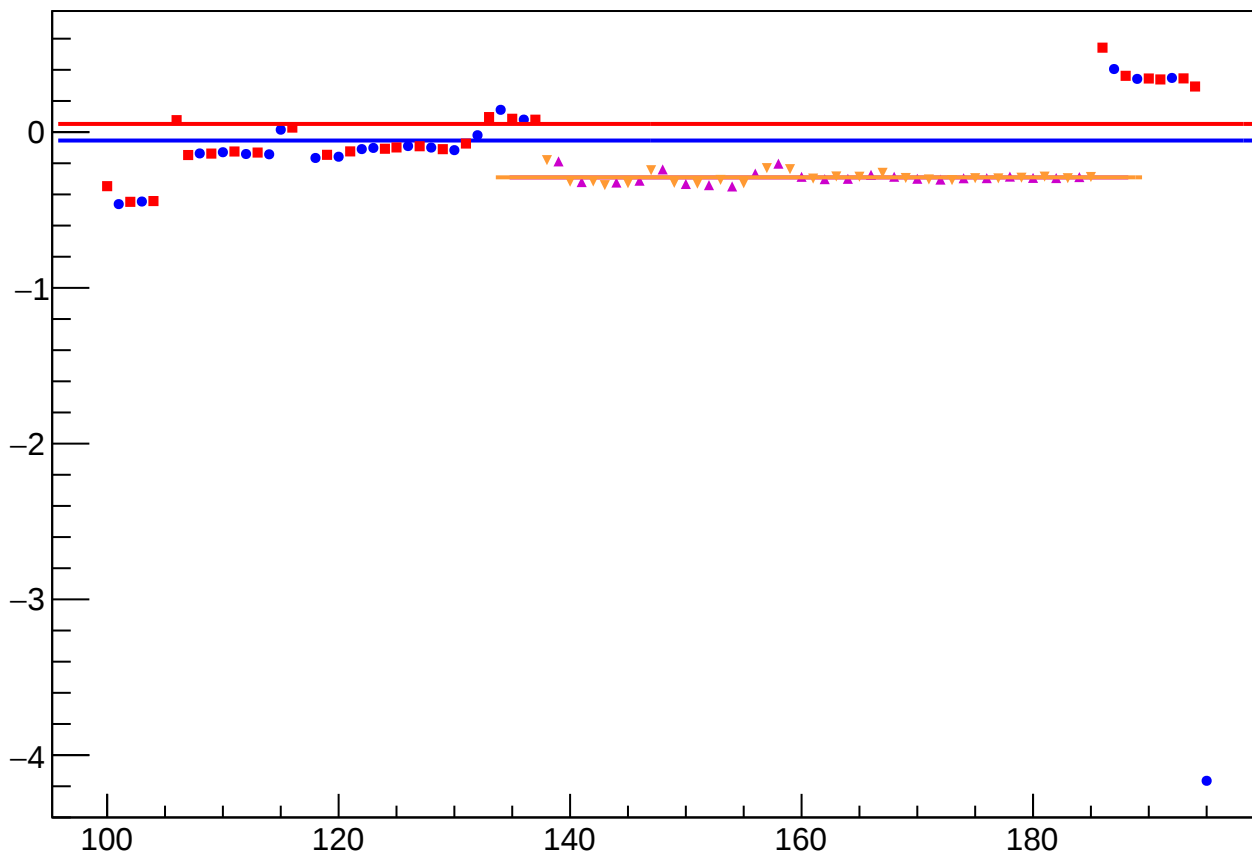
Right: 0.010+/-0.000 χ^2/NDF : 2266684.7/45

In: 0.011+/-0.000 χ^2/NDF :1390020.8/43

Out: 0.011+/-0.000 χ^2/NDF :1211466.1/49

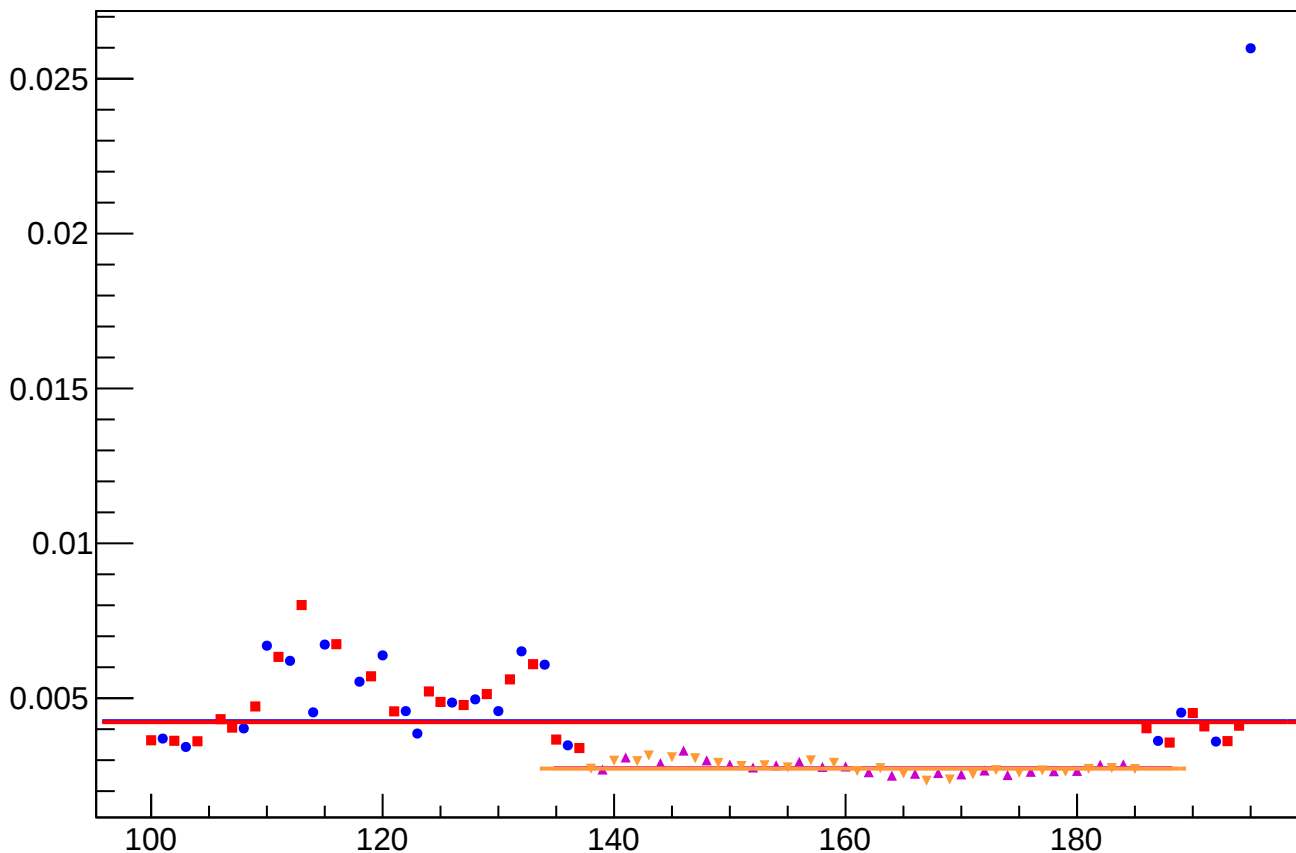
All: 0.011+/-0.000 χ^2/NDF : 2601552.6/93

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$
 Right: 0.005 ± 0.000 $\chi^2/\text{NDF}: 101736267929.7/45$
 In: -0.254 ± 0.000 $\chi^2/\text{NDF}: 76530524143.2/43$
 Out: -0.229 ± 0.000 $\chi^2/\text{NDF}: 97969524528.4/49$
 All: -0.241 ± 0.000 $\chi^2/\text{NDF}: 175353073621.2$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1863129.7/20

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

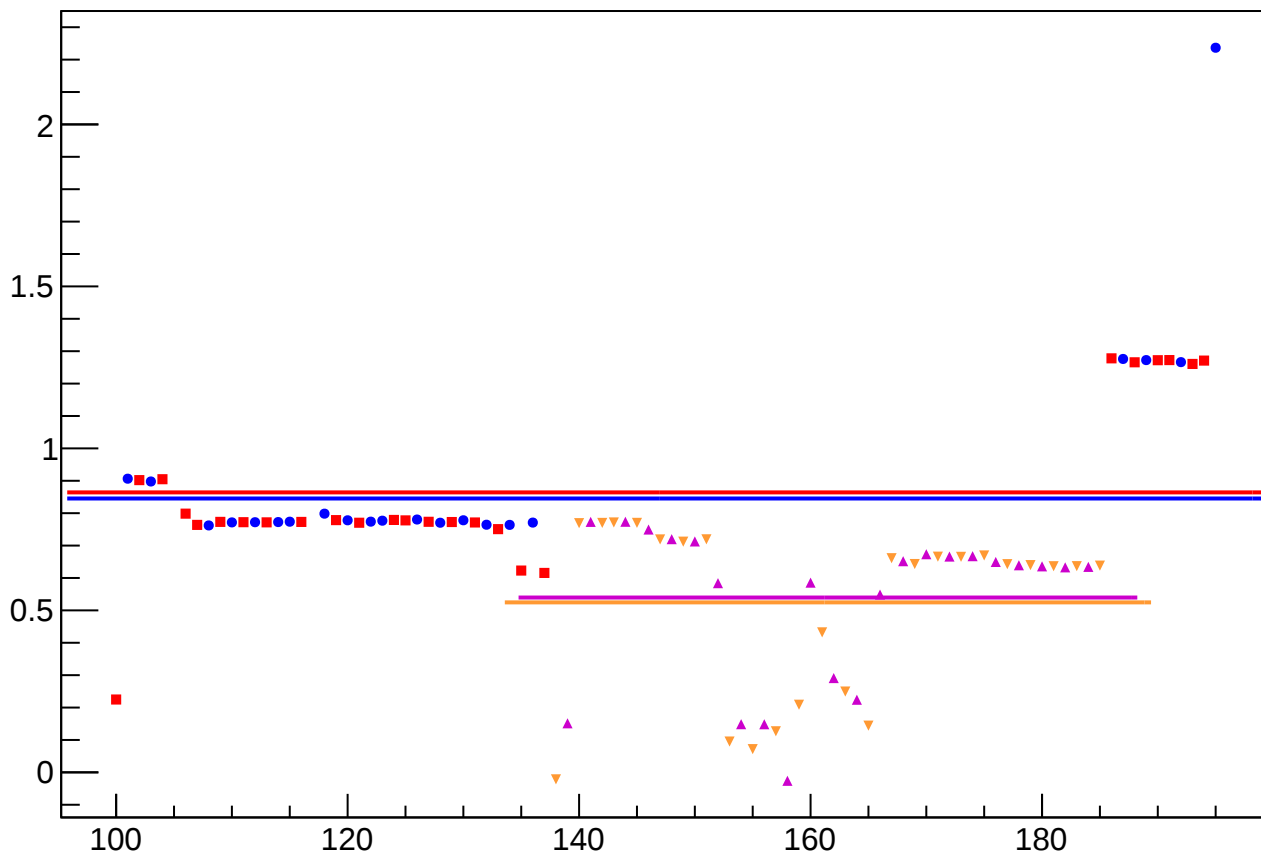
Right: 0.004+/-0.000 χ^2/NDF : 2648125.2/45

In: 0.003+/-0.000 χ^2/NDF :3603898.5/43

Out: 0.003+/-0.000 χ^2/NDF :2894551.2/49

All: 0.003+/-0.000 χ^2/NDF : 6499184.0/93

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.845 $\pm$ 0.000 χ^2/NDF : 1537255576.6/20

Left Out: 0.525 $\pm$ 0.000 χ^2/NDF : 9623503169.9/24

Right Out: 0.864 $\pm$ 0.000 χ^2/NDF : 3300188990.6/24

Left In: 0.540 $\pm$ 0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532 $\pm$ 0.000 χ^2/NDF : 17500739852.2/47

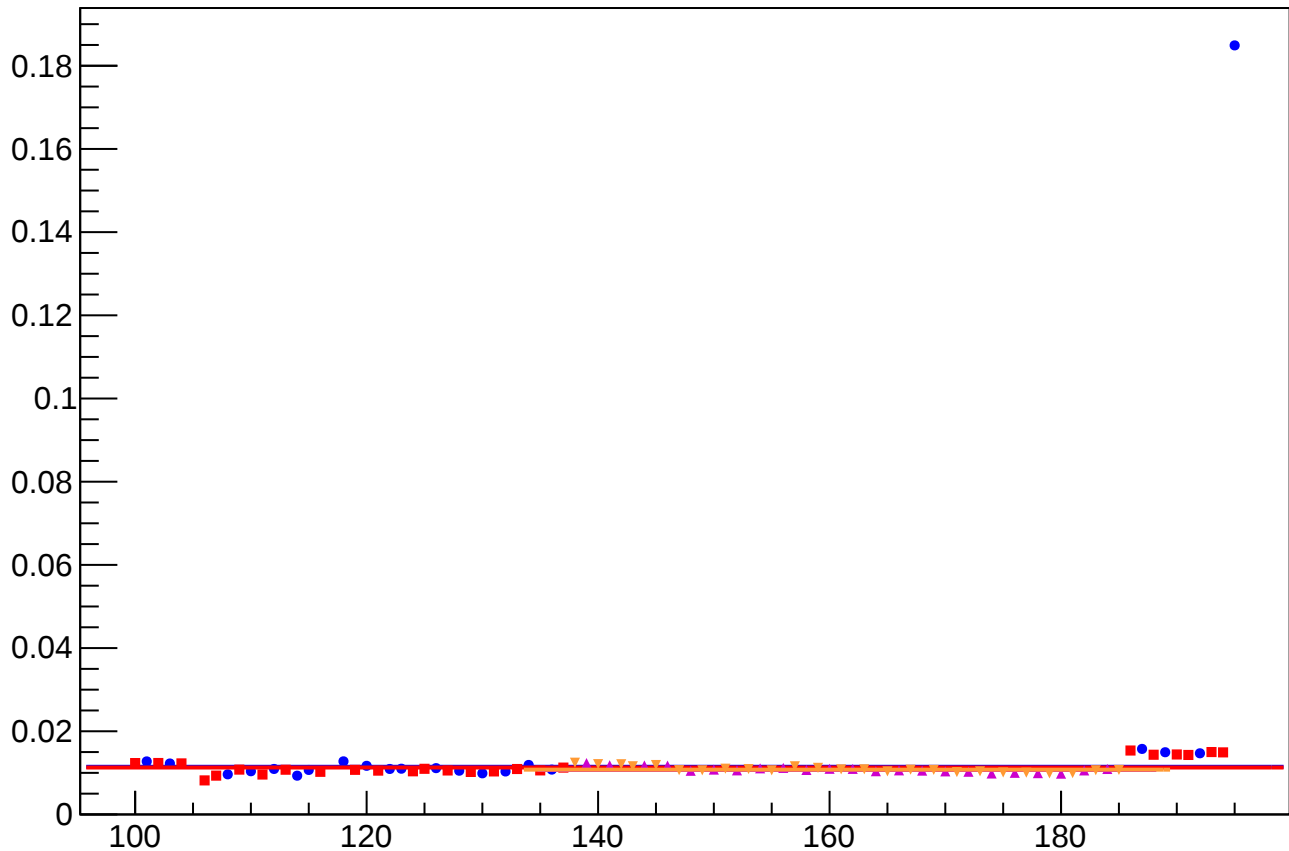
Right: 0.856 $\pm$ 0.000 χ^2/NDF : 4849481409.9/45

In: 0.629 $\pm$ 0.000 χ^2/NDF : 13390441157.2/43

Out: 0.639 $\pm$ 0.000 χ^2/NDF : 18822442425.7/49

All: 0.634 $\pm$ 0.000 χ^2/NDF : 32222637534.4/9

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1762952.3/20

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

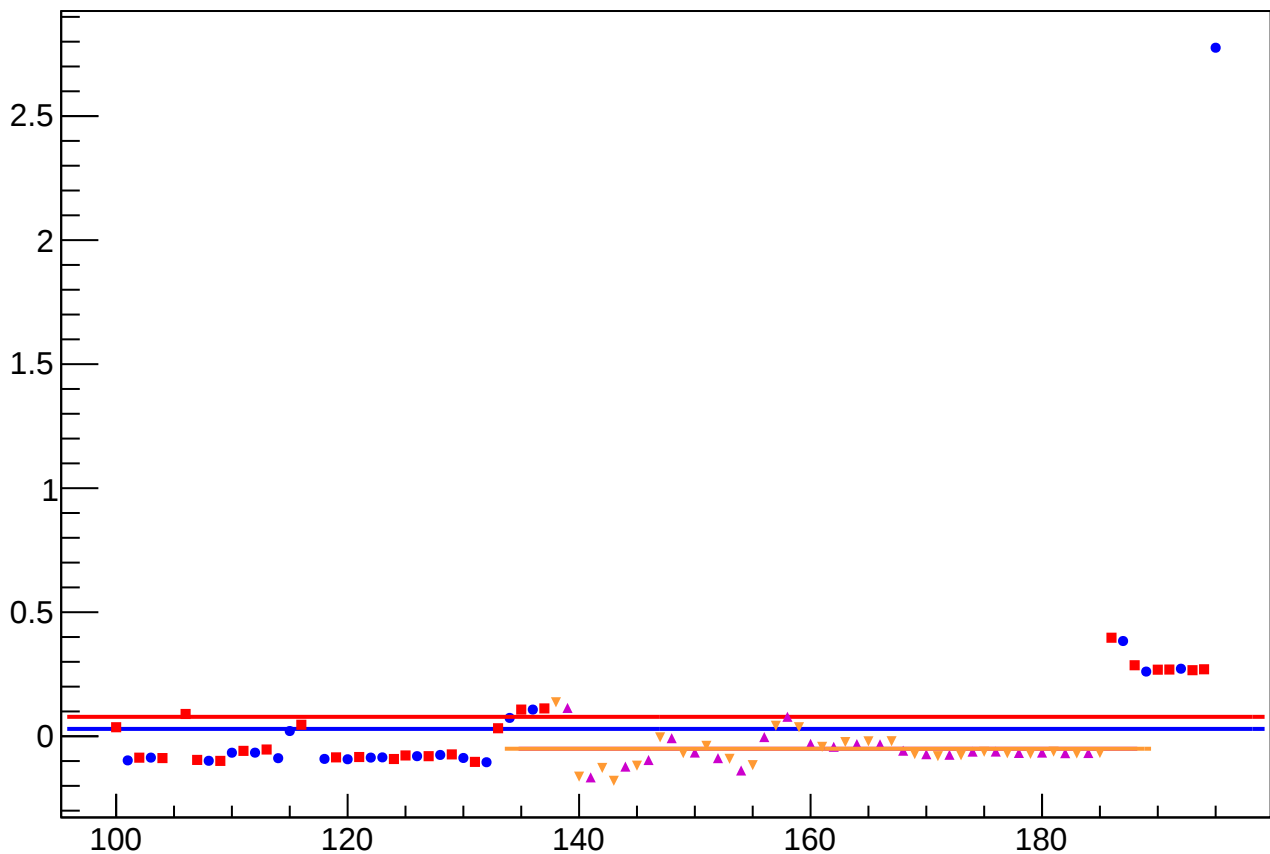
Right: 0.011+/-0.000 χ^2/NDF : 2308950.5/45

In: 0.011+/-0.000 χ^2/NDF :1932552.1/43

Out: 0.011+/-0.000 χ^2/NDF :702769.0/49

All: 0.011+/-0.000 χ^2/NDF : 2635467.2/93

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 8237241375.5/20

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.078+/-0.000 χ^2/NDF : 12300139001.8/24

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

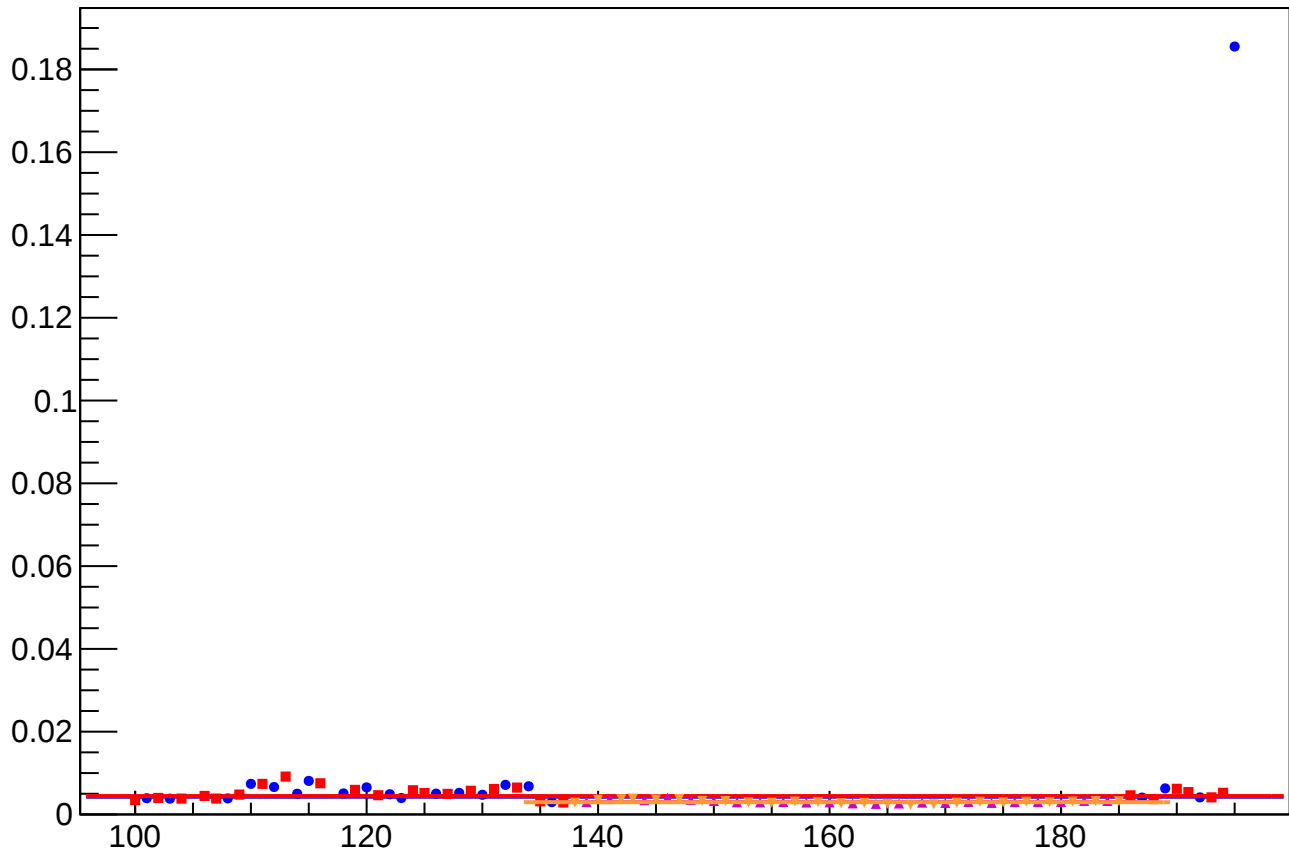
Right: 0.056+/-0.000 χ^2/NDF : 21016702268.2/45

In: -0.037+/-0.000 χ^2/NDF : 16352771963.5/43

Out: -0.027+/-0.000 χ^2/NDF : 25507067949.3/49

All: -0.031+/-0.000 χ^2/NDF : 41975834147.3/95

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2577156.2/20

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

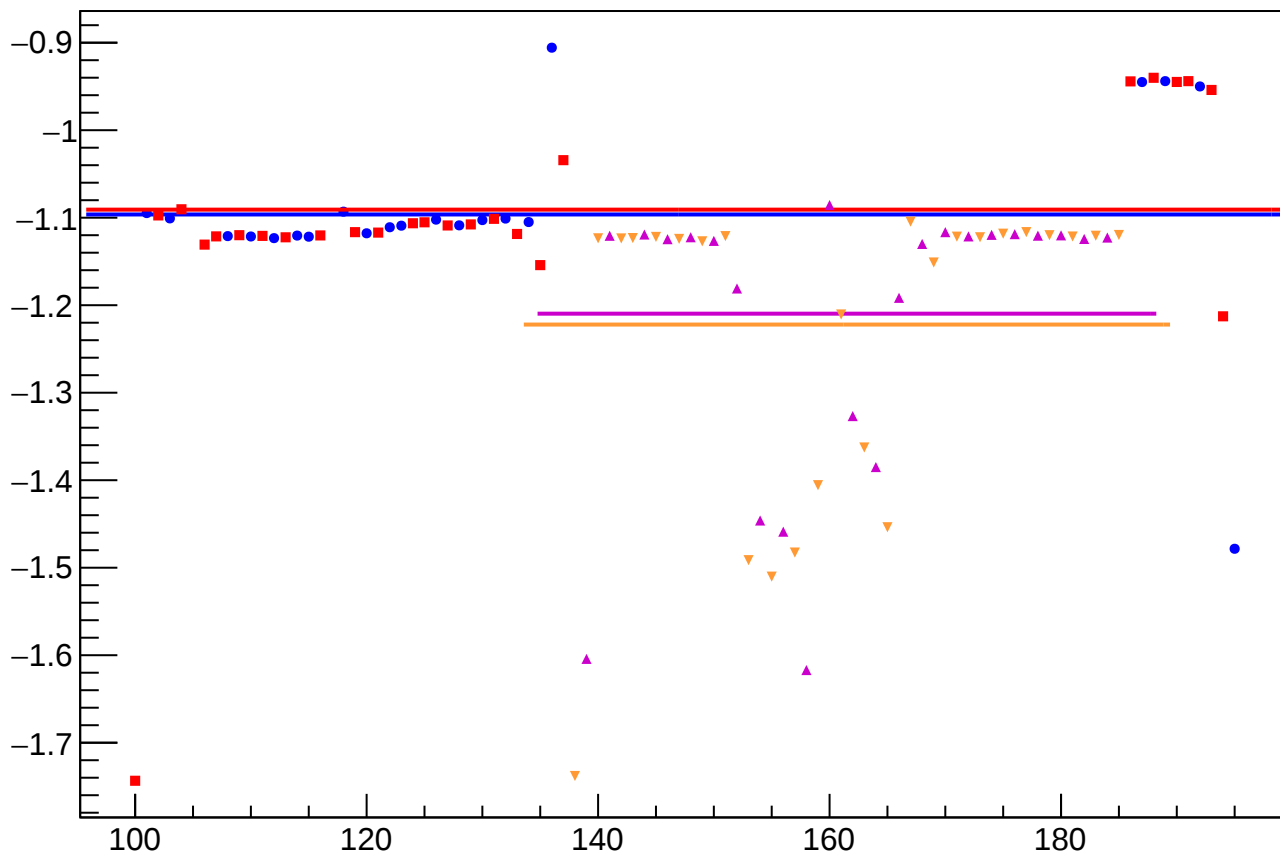
Right: 0.004+/-0.000 χ^2/NDF : 3716651.0/45

In: 0.003+/-0.000 χ^2/NDF : 3923823.6/43

Out: 0.003+/-0.000 χ^2/NDF : 3183932.4/49

All: 0.003+/-0.000 χ^2/NDF : 7107957.0/93

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.096 ± 0.000 $\chi^2/\text{NDF}: 1128156242.3/20$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.091 ± 0.000 $\chi^2/\text{NDF}: 667078926.7/24$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.216 ± 0.000 $\chi^2/\text{NDF}: 9796254294.5/47$

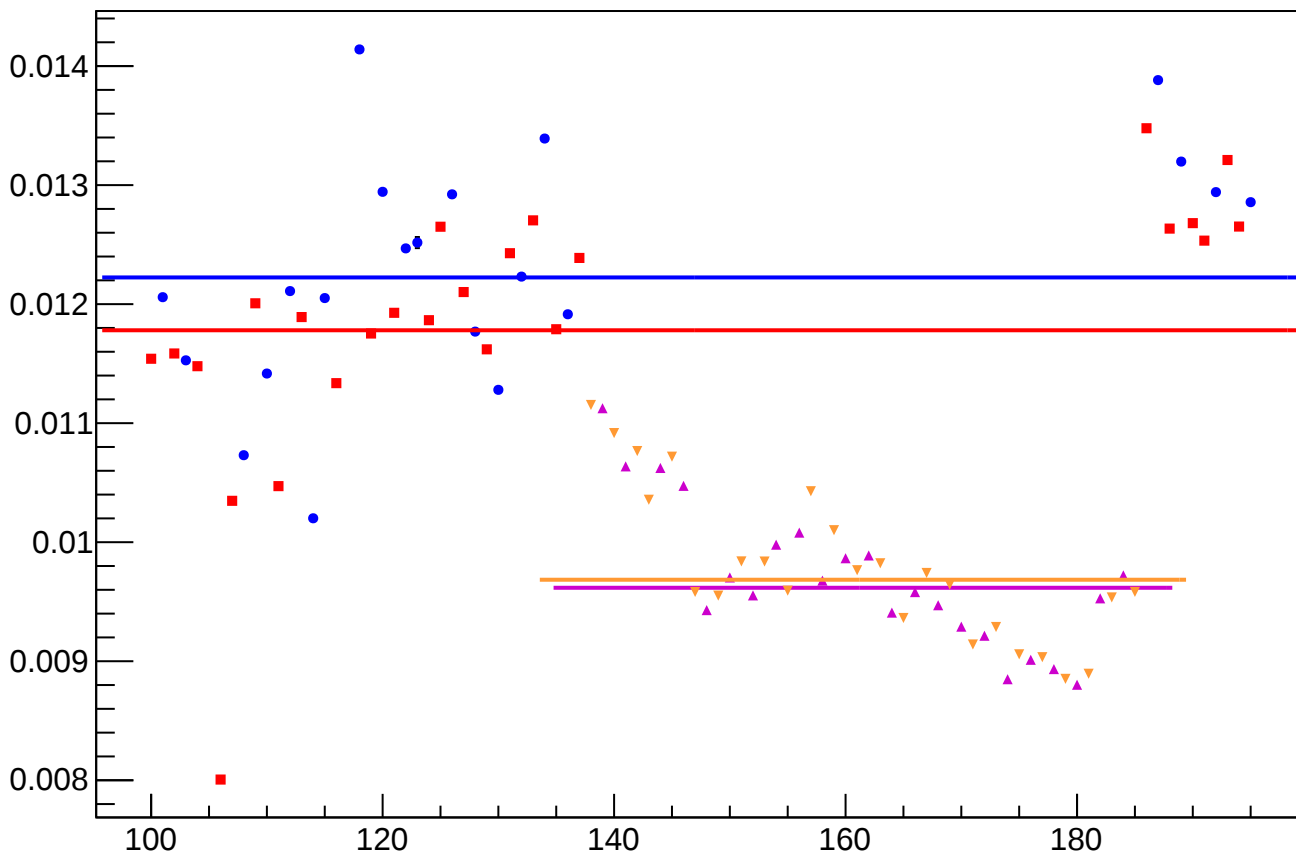
Right: -1.093 ± 0.000 $\chi^2/\text{NDF}: 1796228855.6/45$

In: -1.182 ± 0.000 $\chi^2/\text{NDF}: 6198286559.4/43$

Out: -1.185 ± 0.000 $\chi^2/\text{NDF}: 6858217650.8/49$

All: -1.184 ± 0.000 $\chi^2/\text{NDF}: 13057978512.9/97$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 82541.2/20

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 219664.4/24

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:119823.1/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 255532.7/47

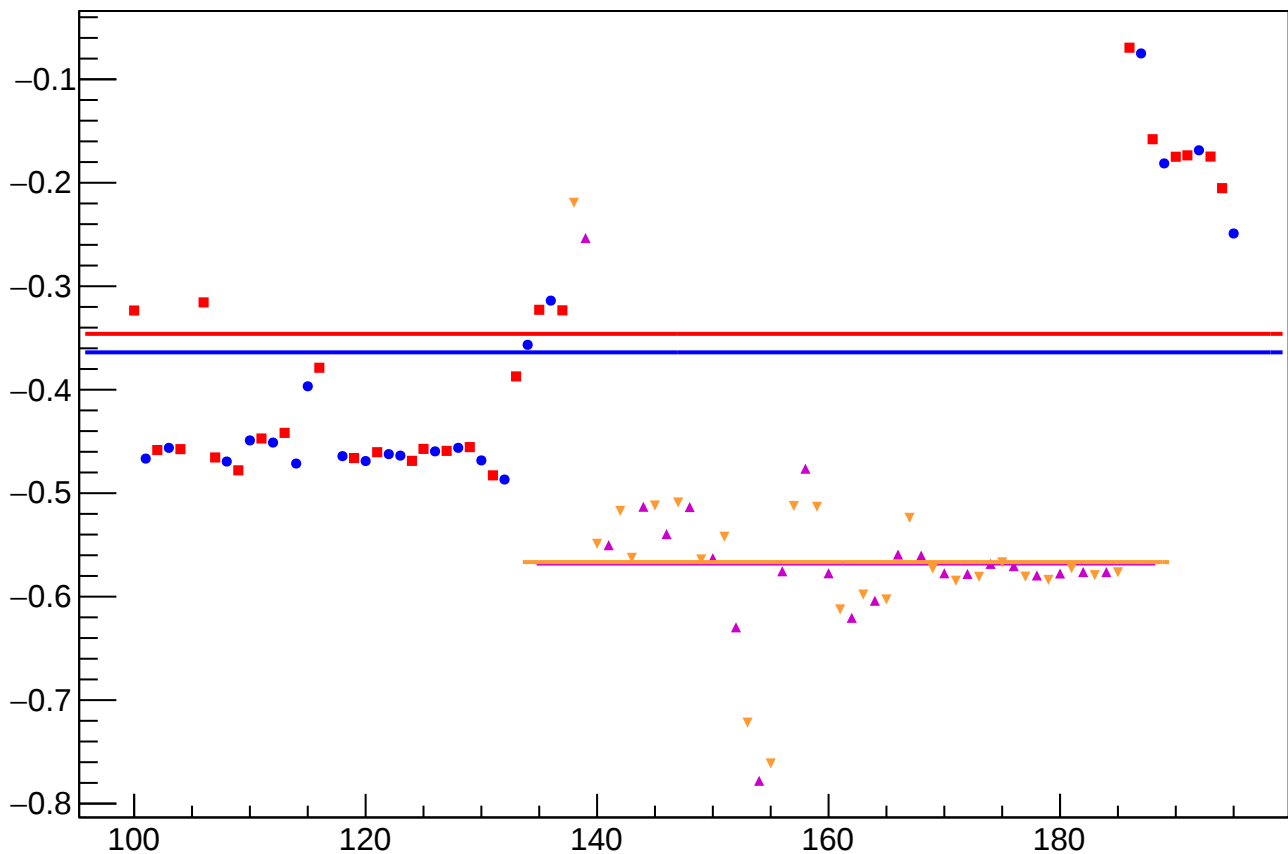
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 315013.8/45

In: 0.010 $\pm$ 0.000 χ^2 /NDF:802953.6/43

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:818776.8/49

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 1621801.7/93

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.364 $\pm$ 0.000 χ^2/NDF : 7336414472.5/20

Left Out: -0.567 $\pm$ 0.000 χ^2/NDF :13368458519.3/24

Right Out: -0.346 $\pm$ 0.000 χ^2/NDF : 9918013710.6/24

Left In: -0.568 $\pm$ 0.000 χ^2/NDF :10458990019.9/22

Left: -0.567 $\pm$ 0.000 χ^2/NDF : 23829000396.4/47

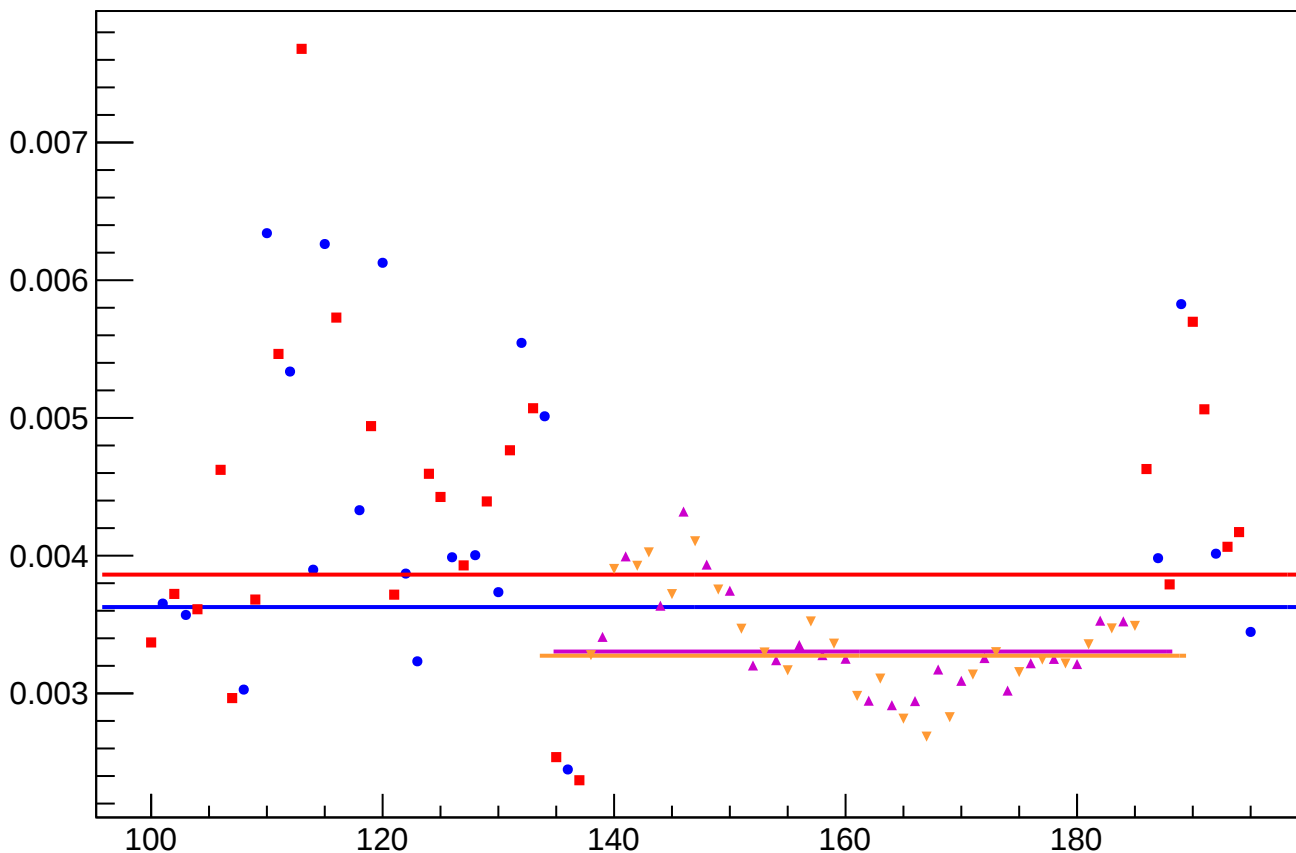
Right: -0.355 $\pm$ 0.000 χ^2/NDF : 17348559844.9/45

In: -0.511 $\pm$ 0.000 χ^2/NDF :35105859876.9/43

Out: -0.506 $\pm$ 0.000 χ^2/NDF :44542119236.5/49

All: -0.508 $\pm$ 0.000 χ^2/NDF : 79666991985.1/76

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 991126.4/20

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

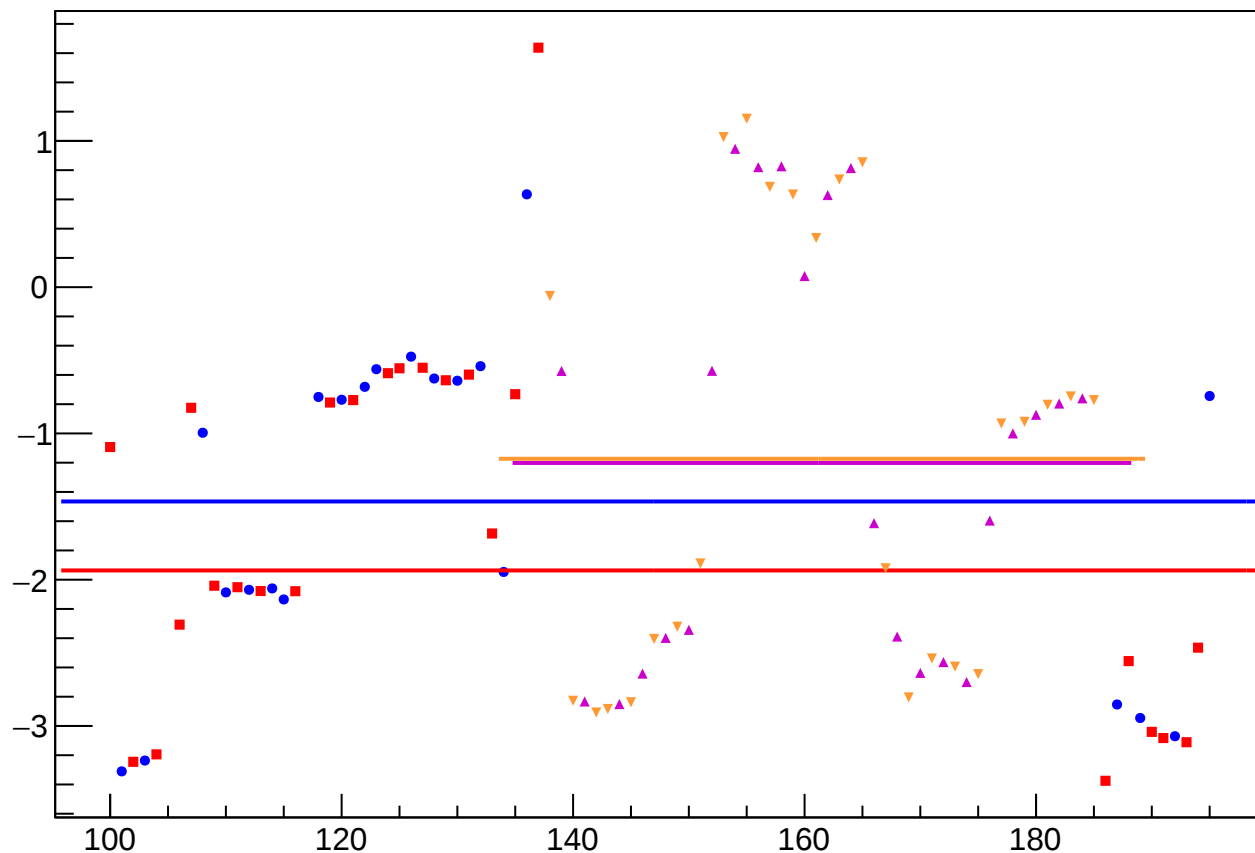
Right: 0.004+/-0.000 χ^2/NDF : 2051631.1/45

In: 0.003+/-0.000 χ^2/NDF : 1363900.3/43

Out: 0.003+/-0.000 χ^2/NDF : 1725757.9/49

All: 0.003+/-0.000 χ^2/NDF : 3092992.6/93

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.465+/-0.000 χ^2/NDF : 2815008296.6/20

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.937+/-0.000 χ^2/NDF : 2507135139.6/24

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

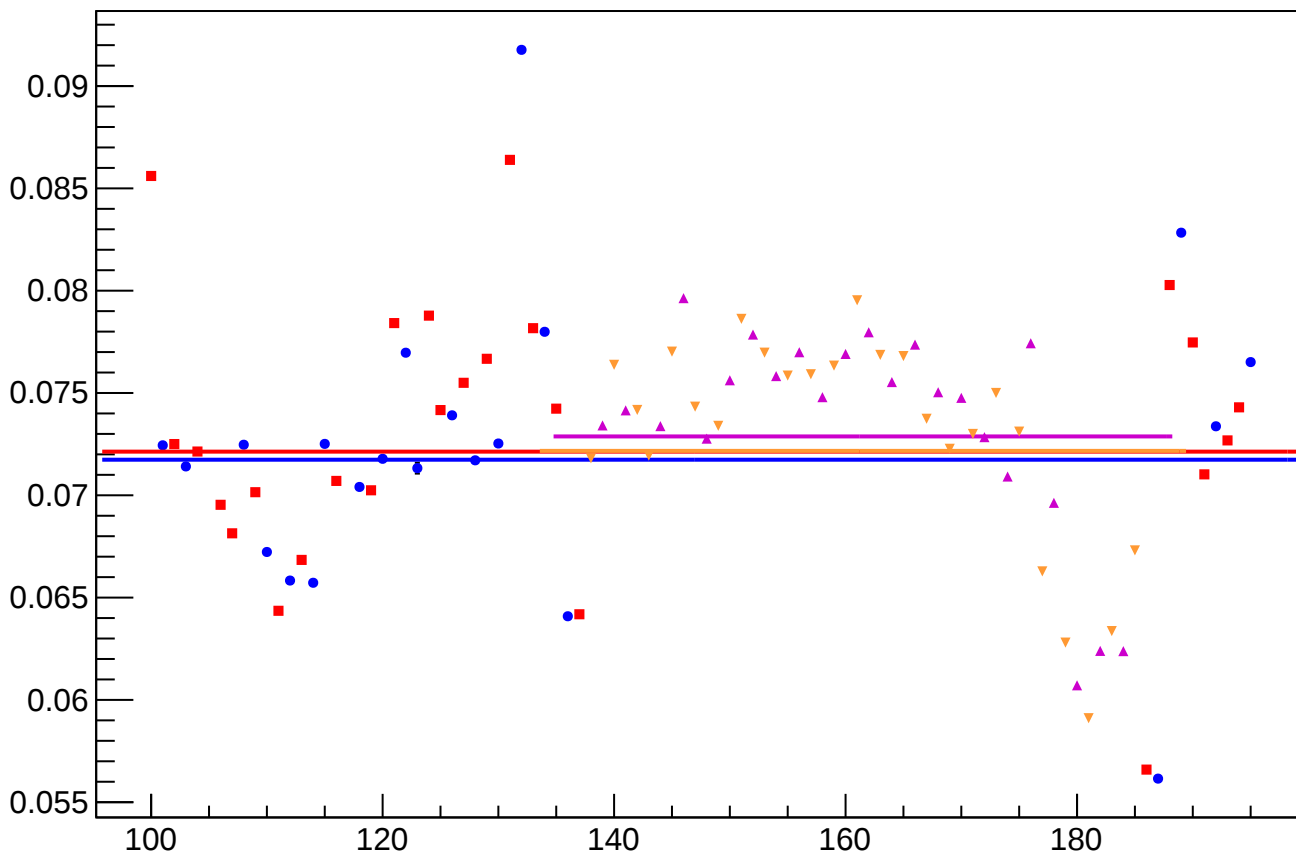
Right: -1.717+/-0.000 χ^2/NDF : 5527094737.7/45

In: -1.294+/-0.000 χ^2/NDF : 8499393655.6/43

Out: -1.451+/-0.000 χ^2/NDF : 10123870133.7/49

All: -1.376+/-0.000 χ^2/NDF : 18686791844.0/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 124468.3/20

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.072+/-0.000 χ^2/NDF : 147241.9/24

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

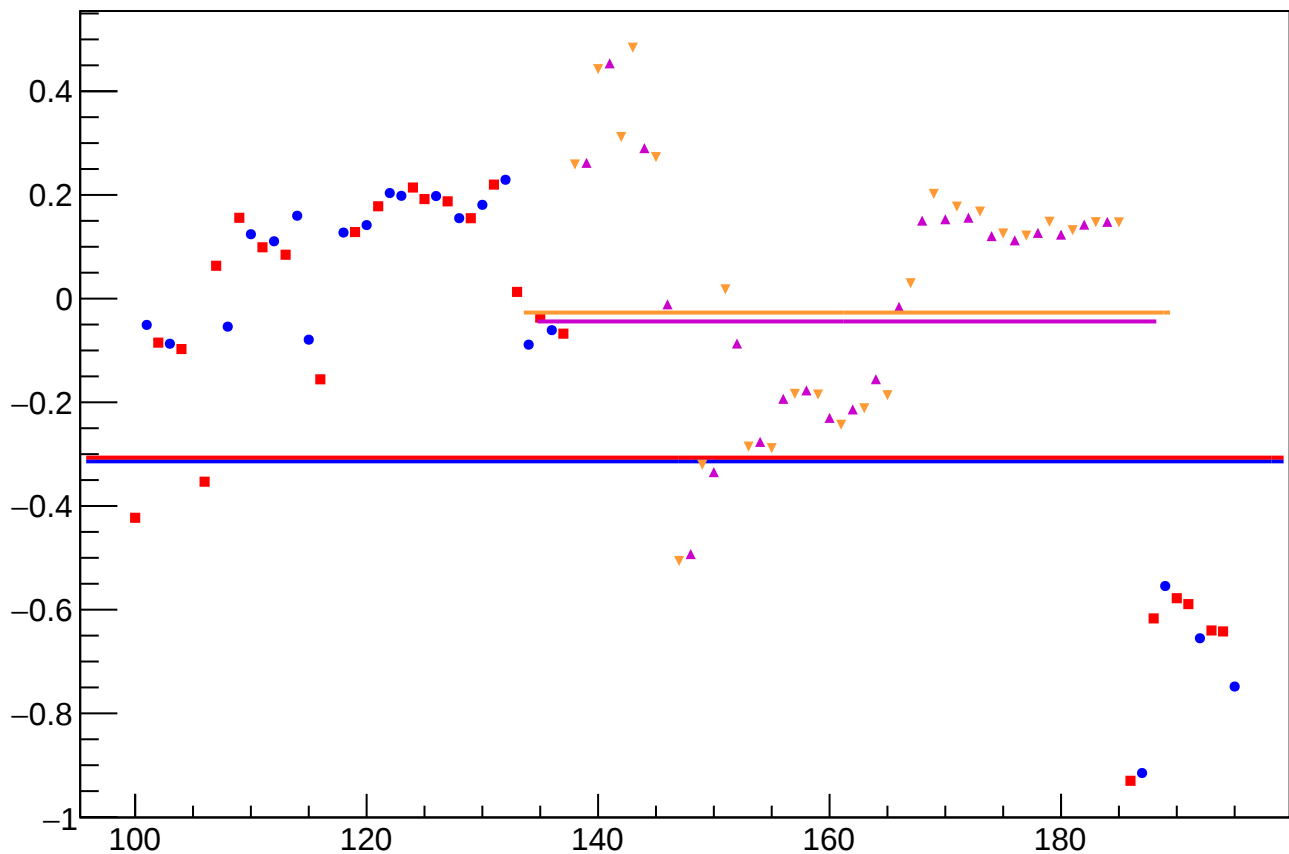
Right: 0.072+/-0.000 χ^2/NDF : 271997.4/45

In: 0.072+/-0.000 χ^2/NDF :310870.3/43

Out: 0.072+/-0.000 χ^2/NDF :369509.1/49

All: 0.072+/-0.000 χ^2/NDF : 680910.4/93

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.314 $\pm$ 0.000 χ^2 /NDF: 11912854624.3/20

Left Out: -0.027 $\pm$ 0.000 χ^2 /NDF: 20376761328.6/24

Right Out: -0.307 $\pm$ 0.000 χ^2 /NDF: 10022787953.3/24

Left In: -0.044 $\pm$ 0.000 χ^2 /NDF: 15718556282.1/22

Left: -0.035 $\pm$ 0.000 χ^2 /NDF: 36148383394.4/47

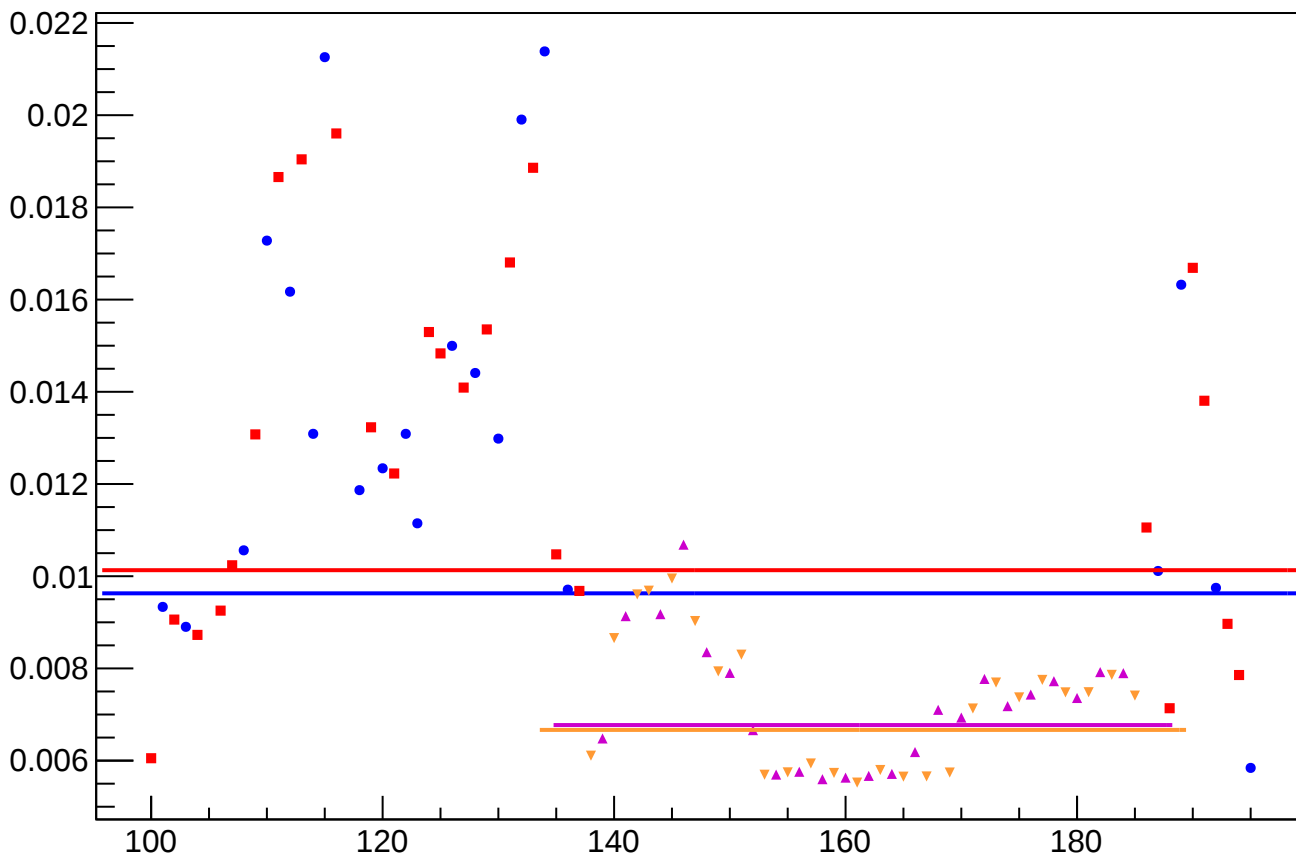
Right: -0.310 $\pm$ 0.000 χ^2 /NDF: 21937756736.0/45

In: -0.095 $\pm$ 0.000 χ^2 /NDF: 32375822535.5/43

Out: -0.077 $\pm$ 0.000 χ^2 /NDF: 35738627946.2/49

All: -0.086 $\pm$ 0.000 χ^2 /NDF: 68183115148.8/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1810928.9/20

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

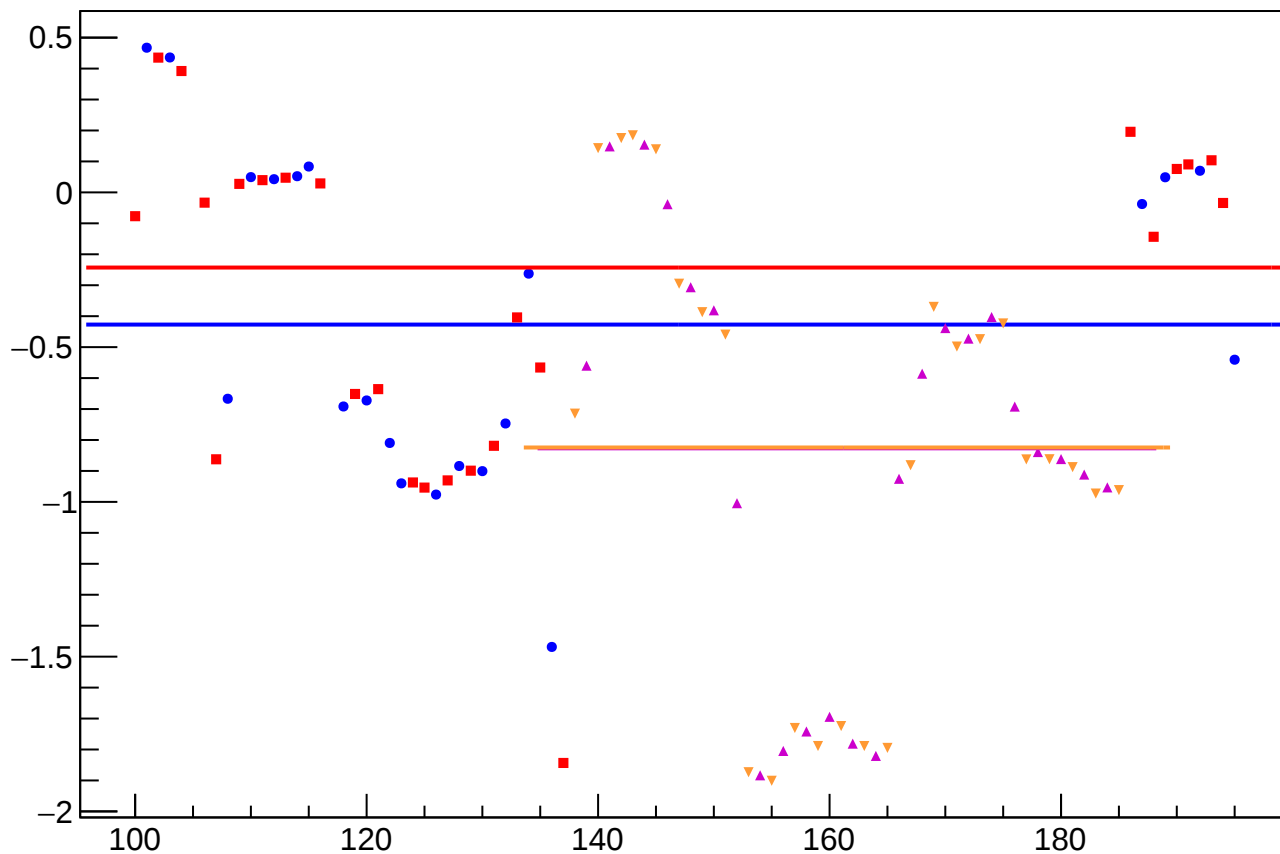
Right: 0.010+/-0.000 χ^2/NDF : 3519367.5/45

In: 0.007+/-0.000 χ^2/NDF : 3808780.6/43

Out: 0.007+/-0.000 χ^2/NDF : 4468957.5/49

All: 0.007+/-0.000 χ^2/NDF : 8277911.7/93

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.427 ± 0.000 $\chi^2/\text{NDF}: 390005514.4/20$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.243 ± 0.000 $\chi^2/\text{NDF}: 324578420.6/24$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

Left: -0.826 ± 0.000 $\chi^2/\text{NDF}: 2025270716.0/47$

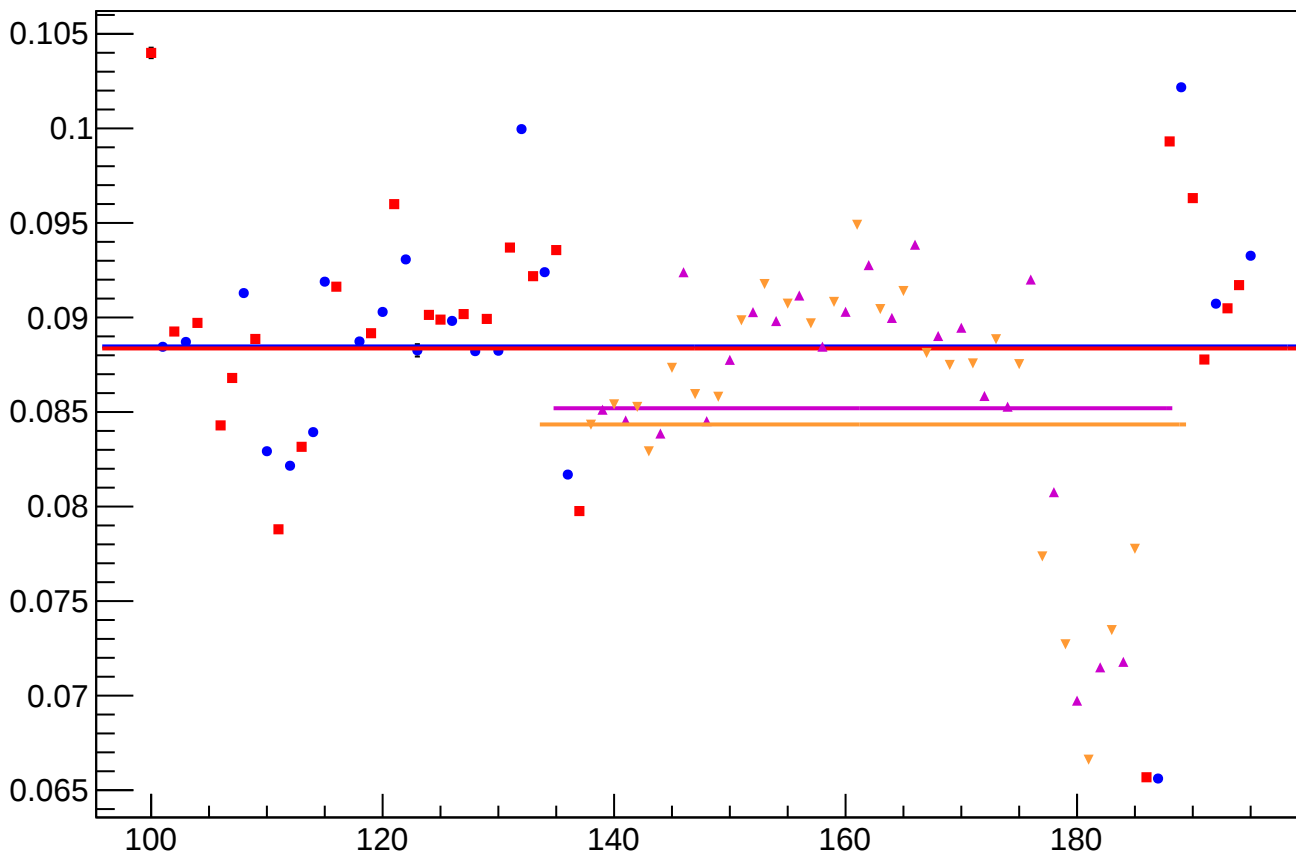
Right: -0.328 ± 0.000 $\chi^2/\text{NDF}: 735579141.2/45$

In: -0.696 ± 0.000 $\chi^2/\text{NDF}: 1435249371.1/43$

Out: -0.624 ± 0.000 $\chi^2/\text{NDF}: 1724904350.3/49$

All: -0.658 ± 0.000 $\chi^2/\text{NDF}: 3169555793.0/99$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 94594.8/20

Left Out: 0.084+/-0.000 χ^2/NDF :288312.6/24

Right Out: 0.088+/-0.000 χ^2/NDF : 158947.0/24

Left In: 0.085+/-0.000 χ^2/NDF :238313.9/22

Left: 0.085+/-0.000 χ^2/NDF : 528427.1/47

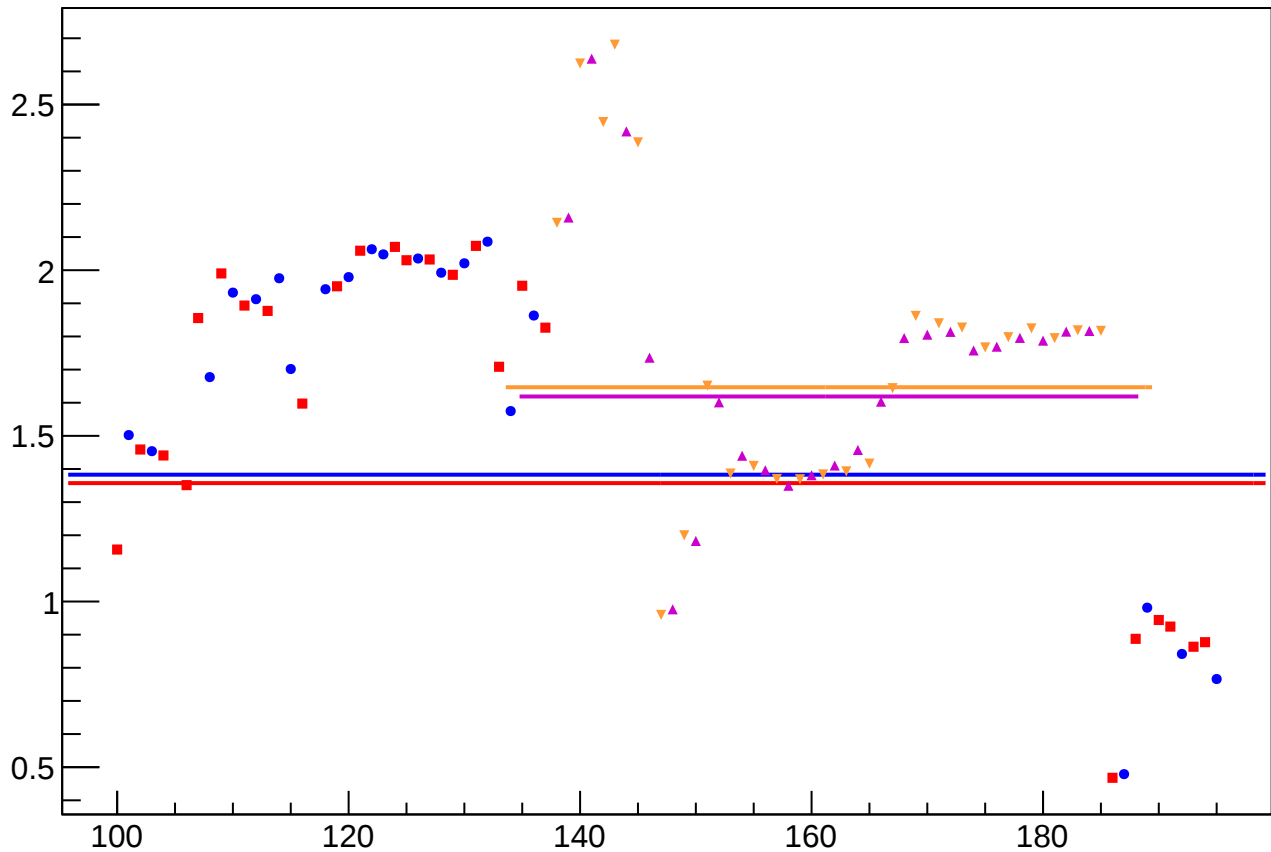
Right: 0.088+/-0.000 χ^2/NDF : 253556.2/45

In: 0.086+/-0.000 χ^2/NDF :349436.3/43

Out: 0.086+/-0.000 χ^2/NDF :475612.6/49

All: 0.086+/-0.000 χ^2/NDF : 826156.1/93

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.383 $\pm$ 0.000 χ^2 /NDF: 12359079380.3/20

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

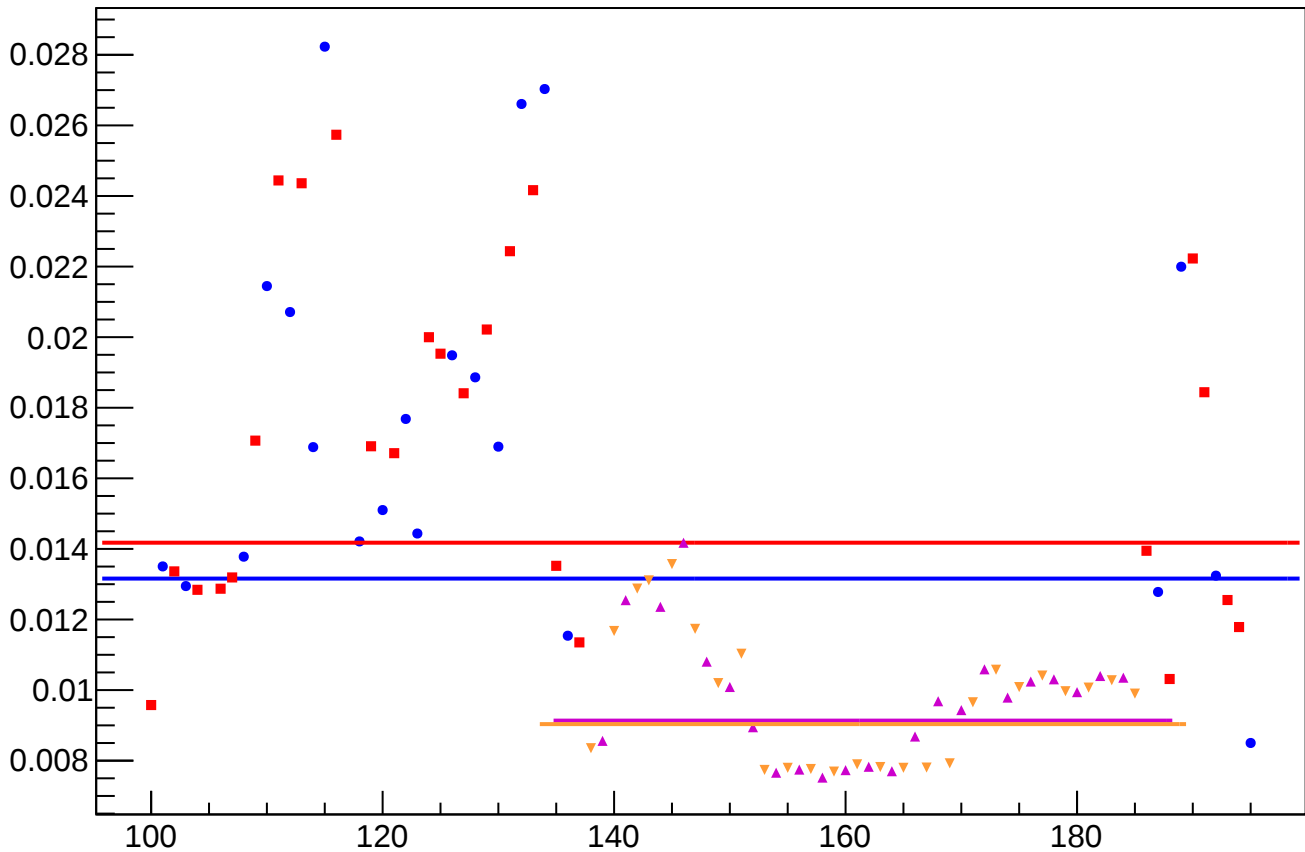
Right: 1.370 $\pm$ 0.000 χ^2 /NDF: 23531002403.6/45

In: 1.575 $\pm$ 0.000 χ^2 /NDF: 34968817534.7/43

Out: 1.597 $\pm$ 0.000 χ^2 /NDF: 40718683958.1/49

All: 1.586 $\pm$ 0.000 χ^2 /NDF: 75745402209.6/99

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1439892.5/20

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

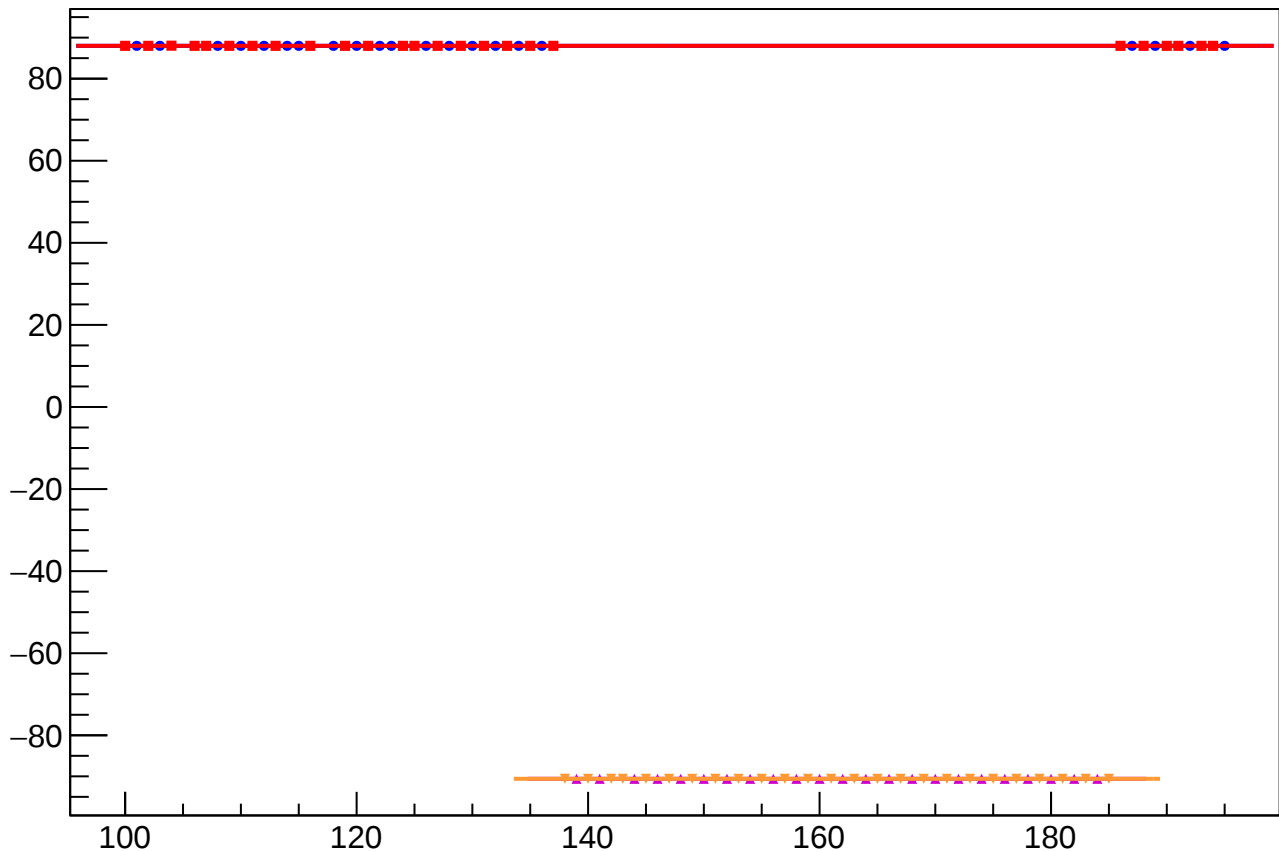
Right: 0.014+/-0.000 χ^2/NDF : 2771480.3/45

In: 0.010+/-0.000 χ^2/NDF :3476332.0/43

Out: 0.010+/-0.000 χ^2/NDF :4237919.6/49

All: 0.010+/-0.000 χ^2/NDF : 7714669.5/93

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 2807082.6/20

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

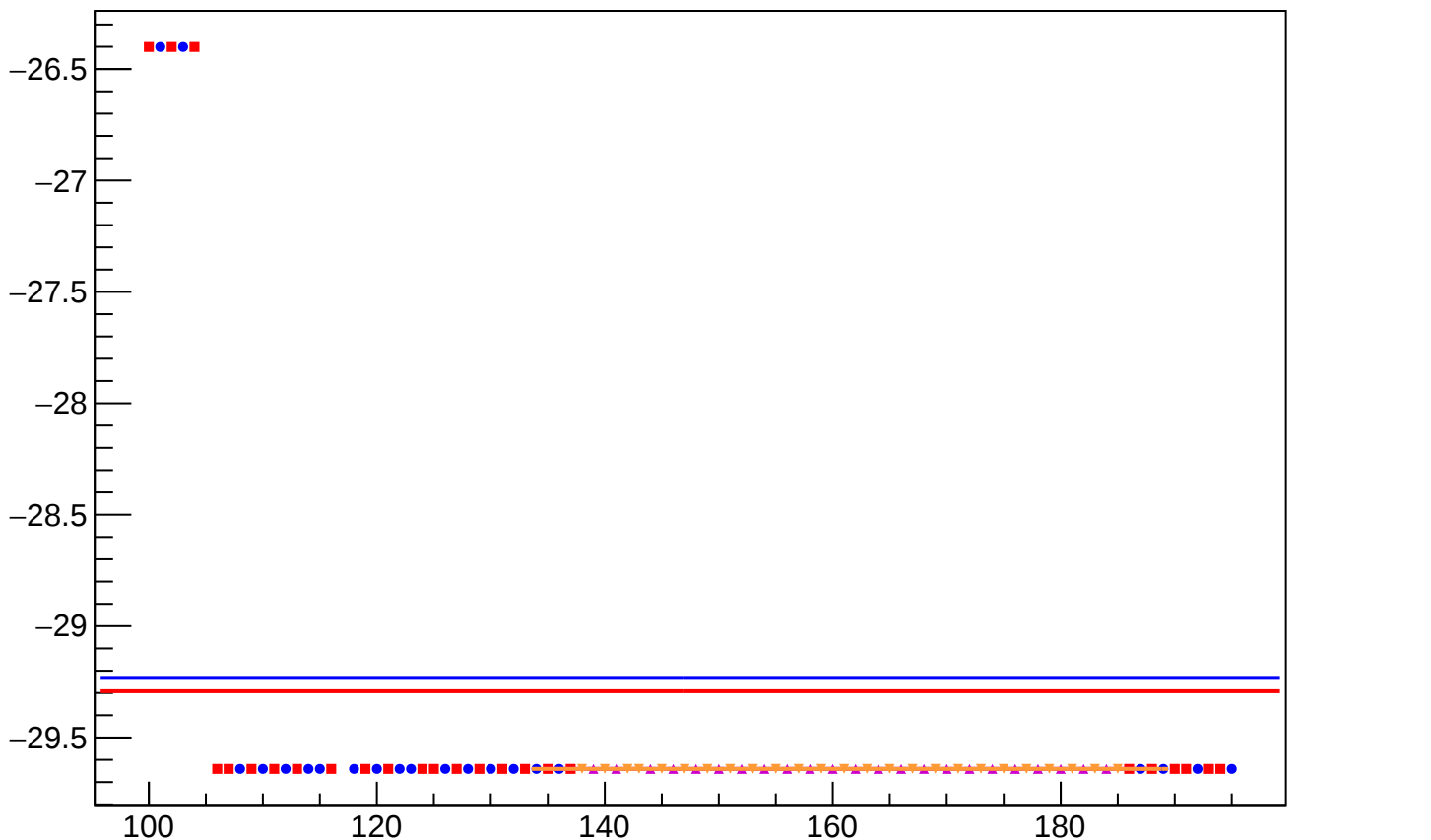
Right: 88.002+/-0.000 χ^2/NDF : 8132691746775311

In: -29.410+/-0.000 χ^2/NDF : 19627473296398220

Out: -26.056+/-0.000 χ^2/NDF : 2196001865029722

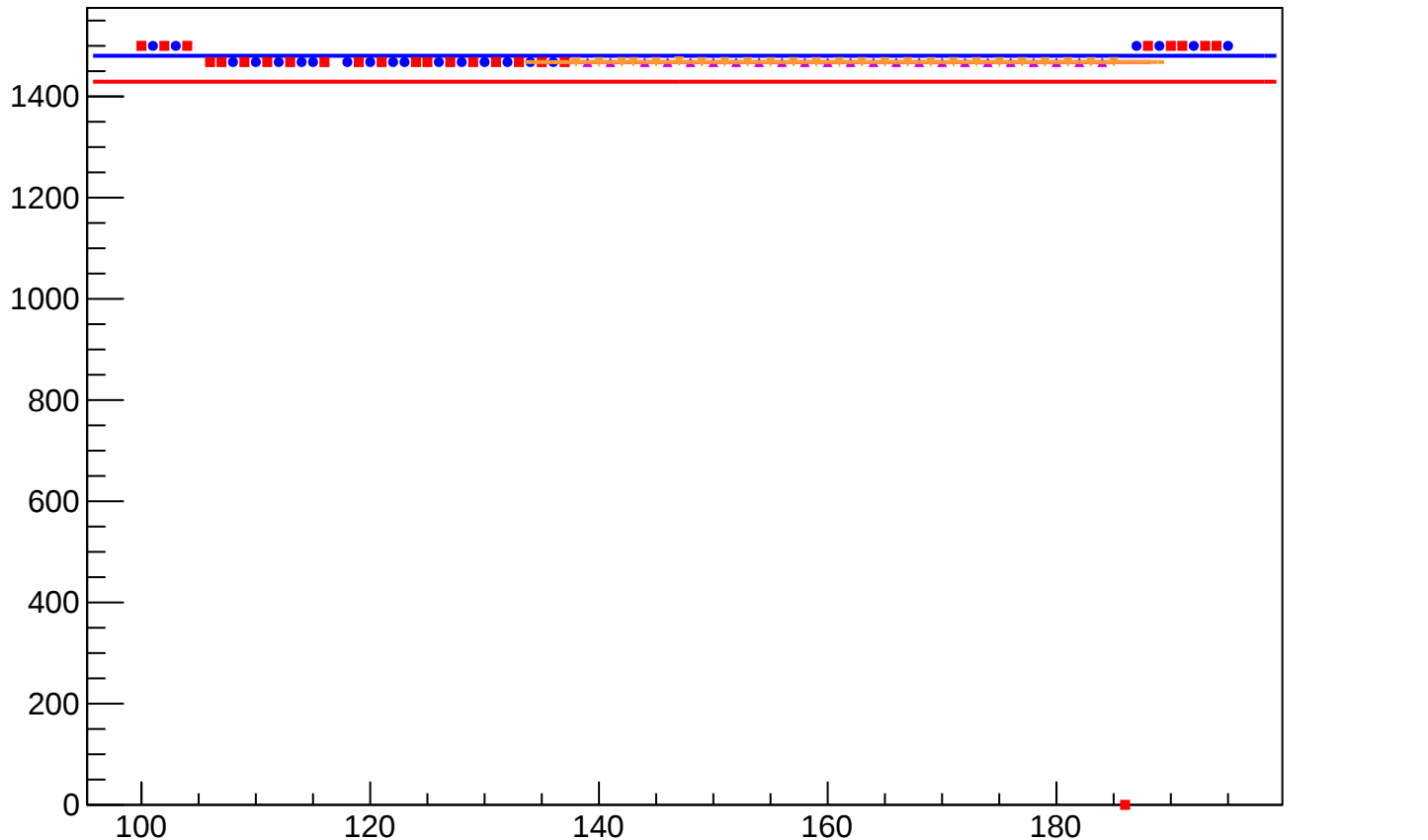
All: -27.659+/-0.000 χ^2/NDF : 416035325284

epics_HWienAngles_mean vs Slug, Sign Corrected



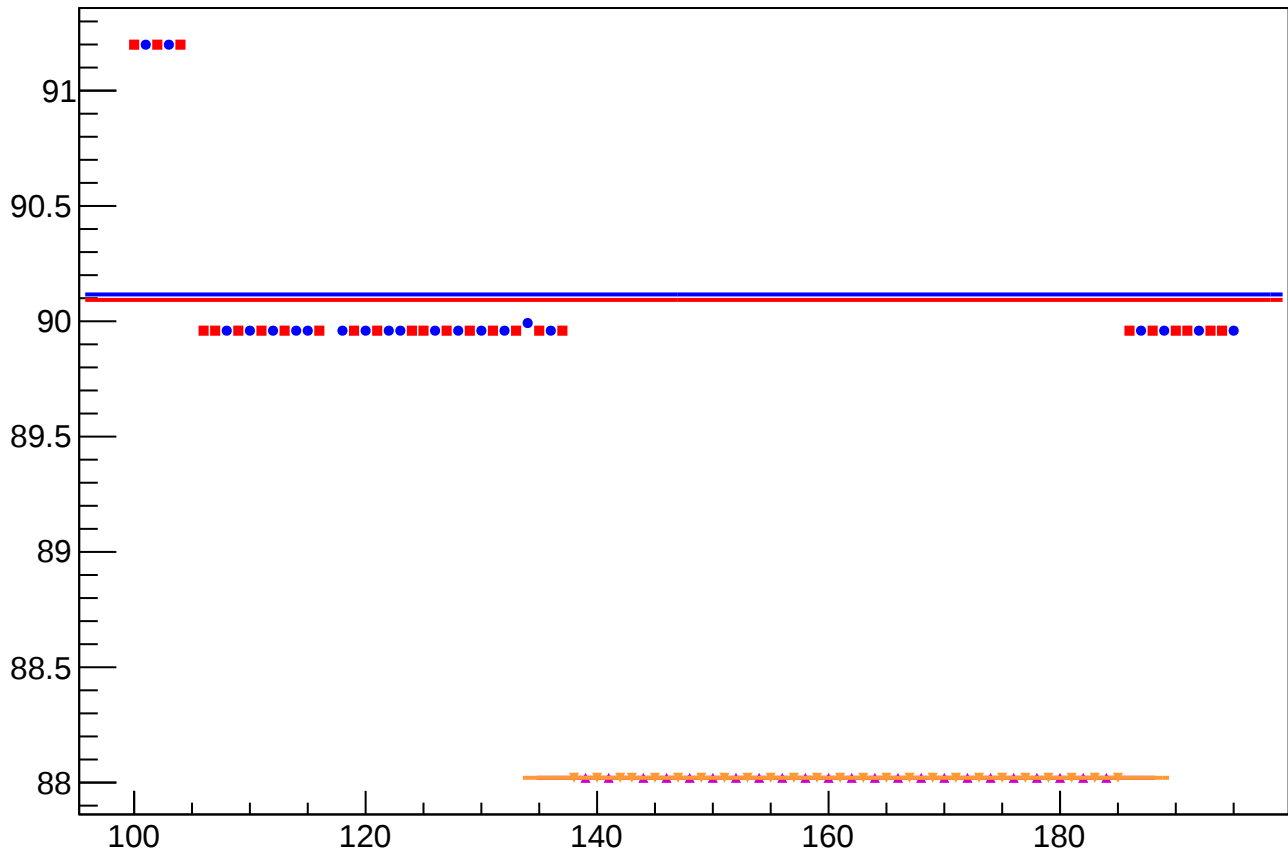
Right In: -29.232+/-0.000	χ^2/NDF : 1082553784615390088674051346137088.0/20	Left: -29.641+/-0.000	χ^2/NDF : 741150.6/47
Left Out: -29.641+/-0.000	χ^2/NDF : 530354.3/24	Right: -29.264+/-0.000	χ^2/NDF : 217103294538232
Right Out: -29.292+/-0.000	χ^2/NDF : 1086686622634506947920376658657280.0/24	In: -29.501+/-0.000	χ^2/NDF : 11852143906295611
Left In: -29.641+/-0.000	χ^2/NDF : 382603.8/22	Out: -29.515+/-0.000	χ^2/NDF : 1170368027891359
		All: -29.508+/-0.000	χ^2/NDF : 235585981984

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1480.398+/-0.000 χ^2/NDF : 227859006347035728028390099448233984.0/20
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1429.184+/-0.000 χ^2/NDF : 80712131840734480315290584516411785216.0/24
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1462.723+/-0.000 χ^2/NDF : 82549051965

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.116+/-0.000

χ^2/NDF : 158368791402850689084179974455296.0/20

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

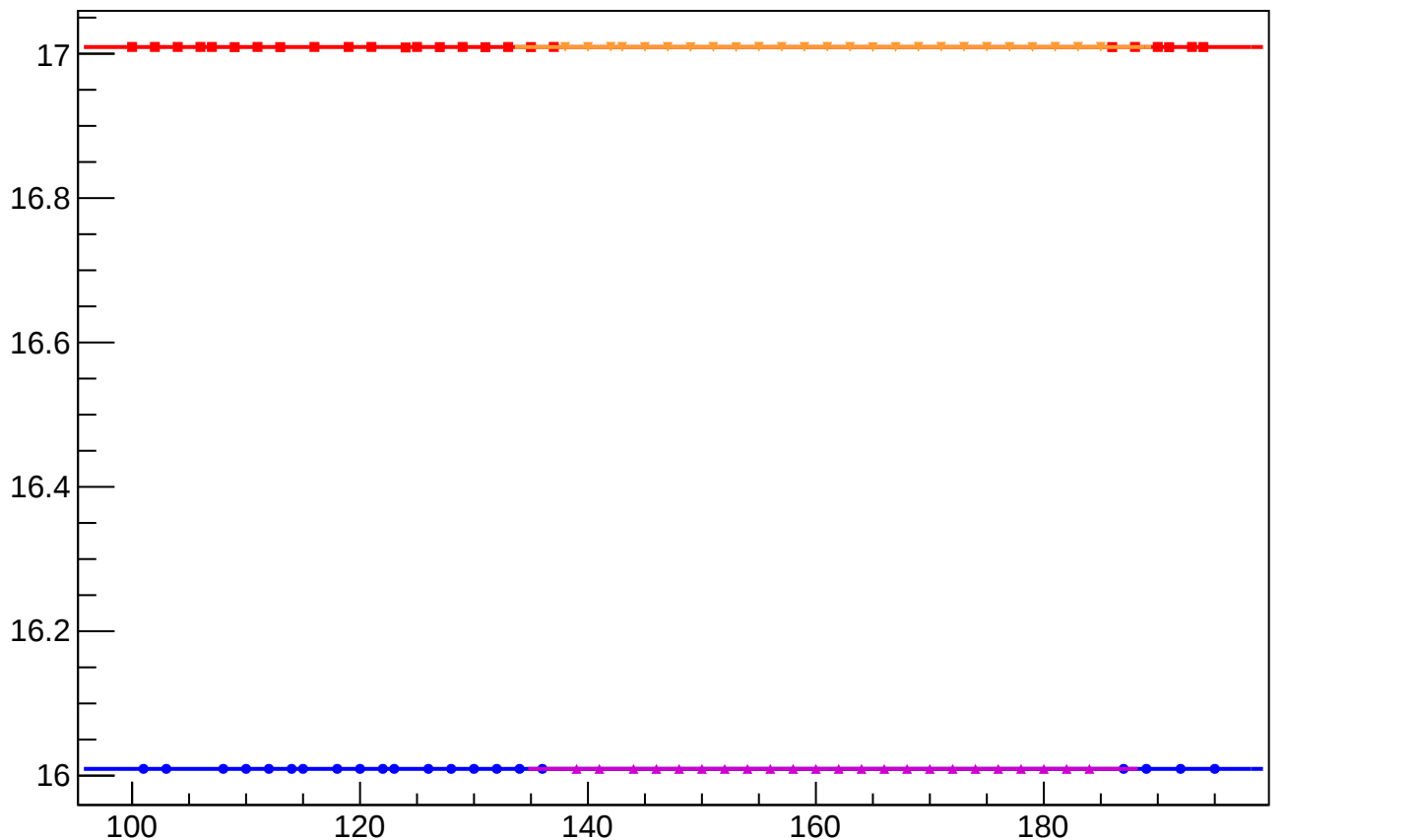
Right: 90.104+/-0.000 χ^2/NDF : 3178173315973843

In: 88.739+/-0.000 χ^2/NDF : 286072841381262577

Out: 88.769+/-0.000 χ^2/NDF : 31148043915748099

All: 88.755+/-0.000 χ^2/NDF : 5976886013718

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 141199.8/20

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

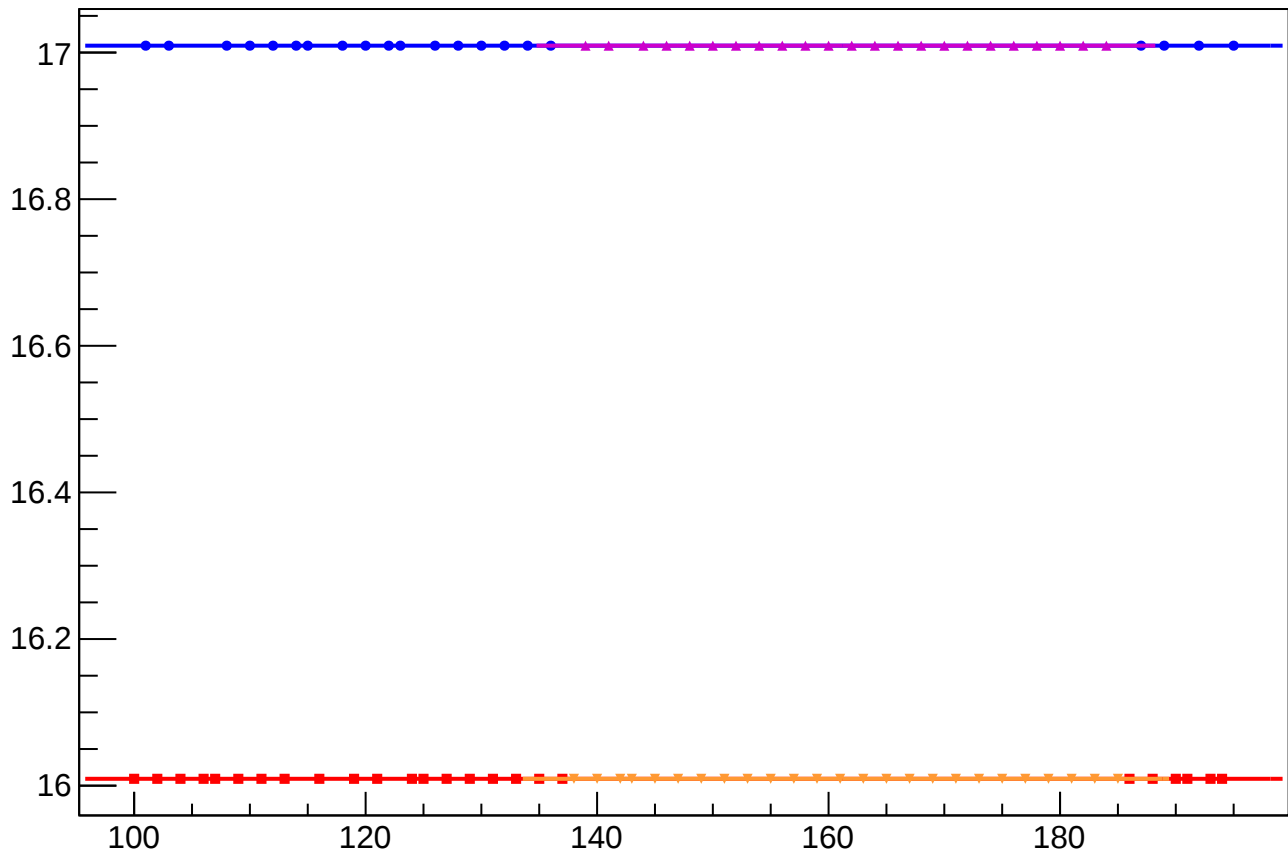
Right: 16.537 $\pm$ 0.000 χ^2 /NDF: 4771742360579978

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129978785633628952

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 42479391986873006

All: 16.529 $\pm$ 0.000 χ^2 /NDF: 1335944511011

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 197152.1/20

Left Out: 16.009+/-0.000 χ^2/NDF : 61253.5/24

Right Out: 16.009+/-0.000 χ^2/NDF : 216842.1/24

Left In: 17.009+/-0.000 χ^2/NDF : 114986101427233622065152.0/22

Left: 16.491+/-0.000 χ^2/NDF : 90683349233974458

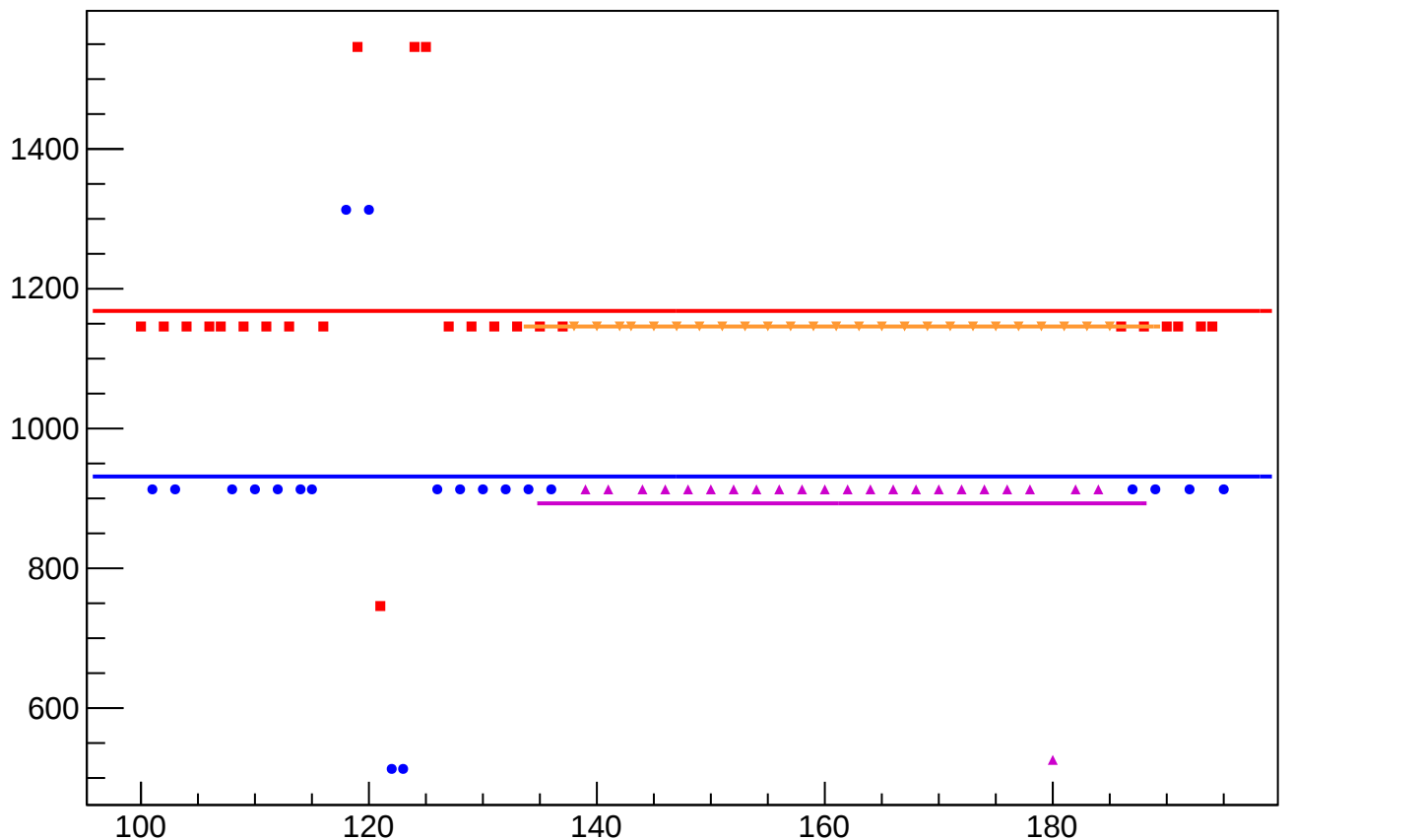
Right: 16.467+/-0.000 χ^2/NDF : 4902197468354233

In: 17.009+/-0.000 χ^2/NDF : 116885070142072174

Out: 16.009+/-0.000 χ^2/NDF : 707690.3/49

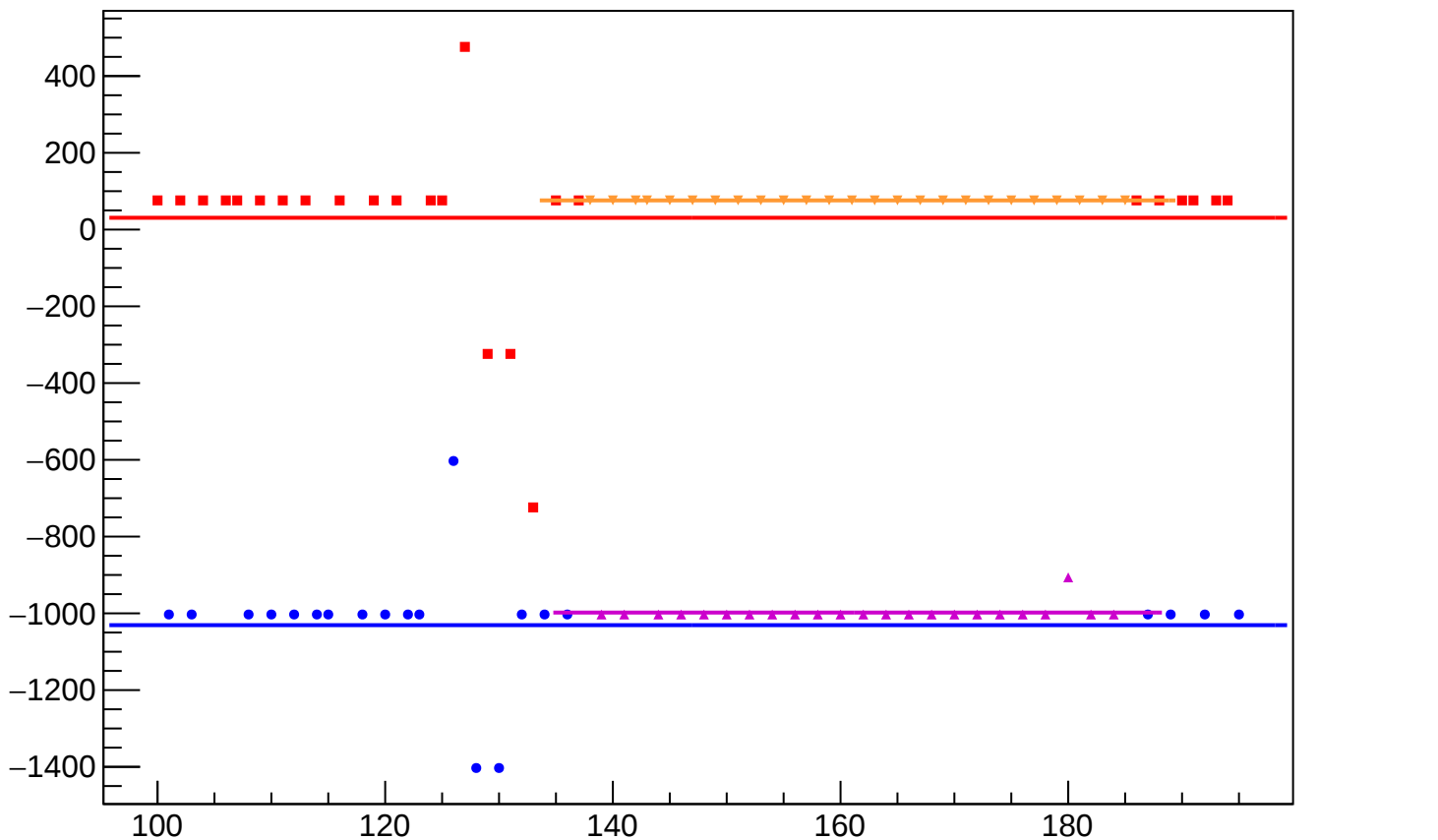
All: 16.483+/-0.000 χ^2/NDF : 1397813724035

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 931.371+/-0.000 χ^2/NDF : 20965279125874439462185531817341222912.0/20
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1168.274+/-0.000 χ^2/NDF : 21546371259977567888980527918453096448.0/24
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1035.530+/-0.000 χ^2/NDF : 14463899633

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1030.767 $\pm$ 0.000 χ^2/NDF : 22477427270734538055305005926228951040.0/20
 Left Out: 76.011 $\pm$ 0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: 30.741 $\pm$ 0.000 χ^2/NDF : 44830581001748476320632974714700038144.0/24
 Left In: -997.979 $\pm$ 0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -451.309 $\pm$ 0.000 χ^2/NDF : 16993606501