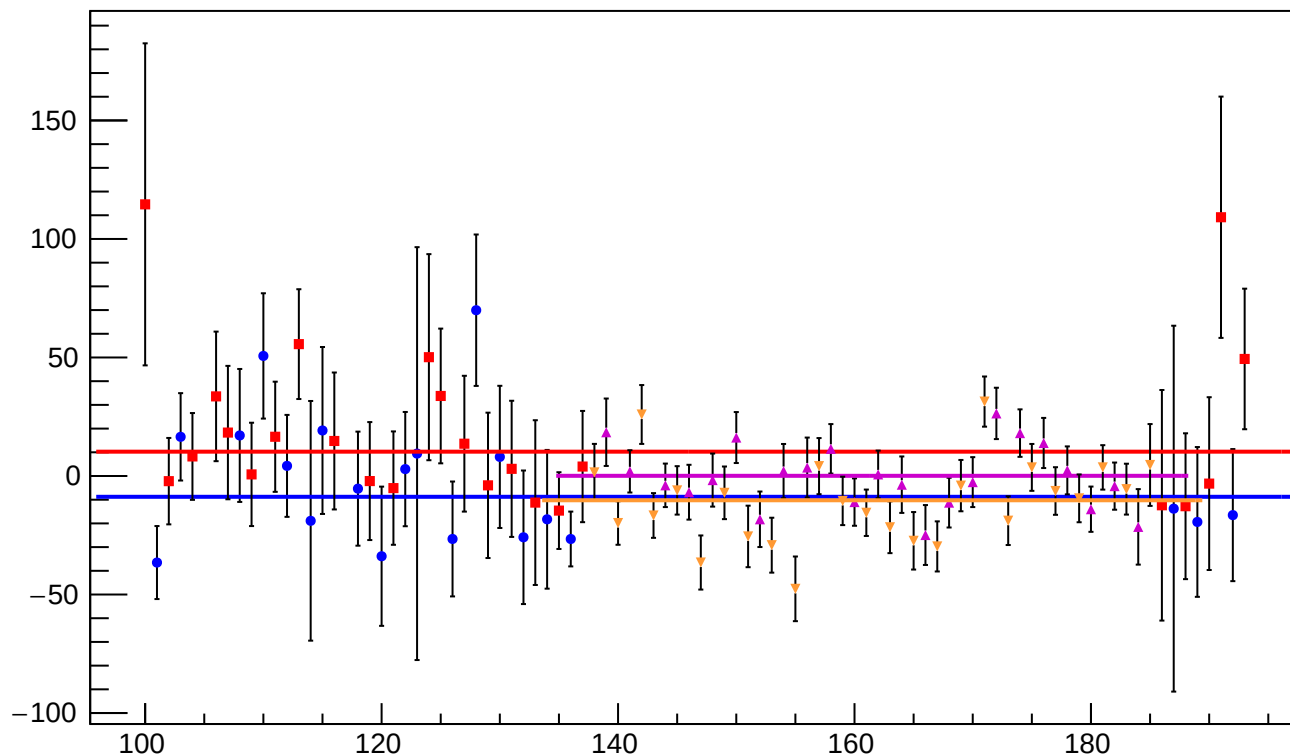


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.774 ± 5.413

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

Left Out: -10.238 ± 2.170

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

Right Out: 10.265 ± 5.370

$\chi^2/\text{NDF}: 19.5/23$

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: 0.821 ± 3.813

$\chi^2/\text{NDF}: 48.8/43$

In: -1.224 ± 2.078

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

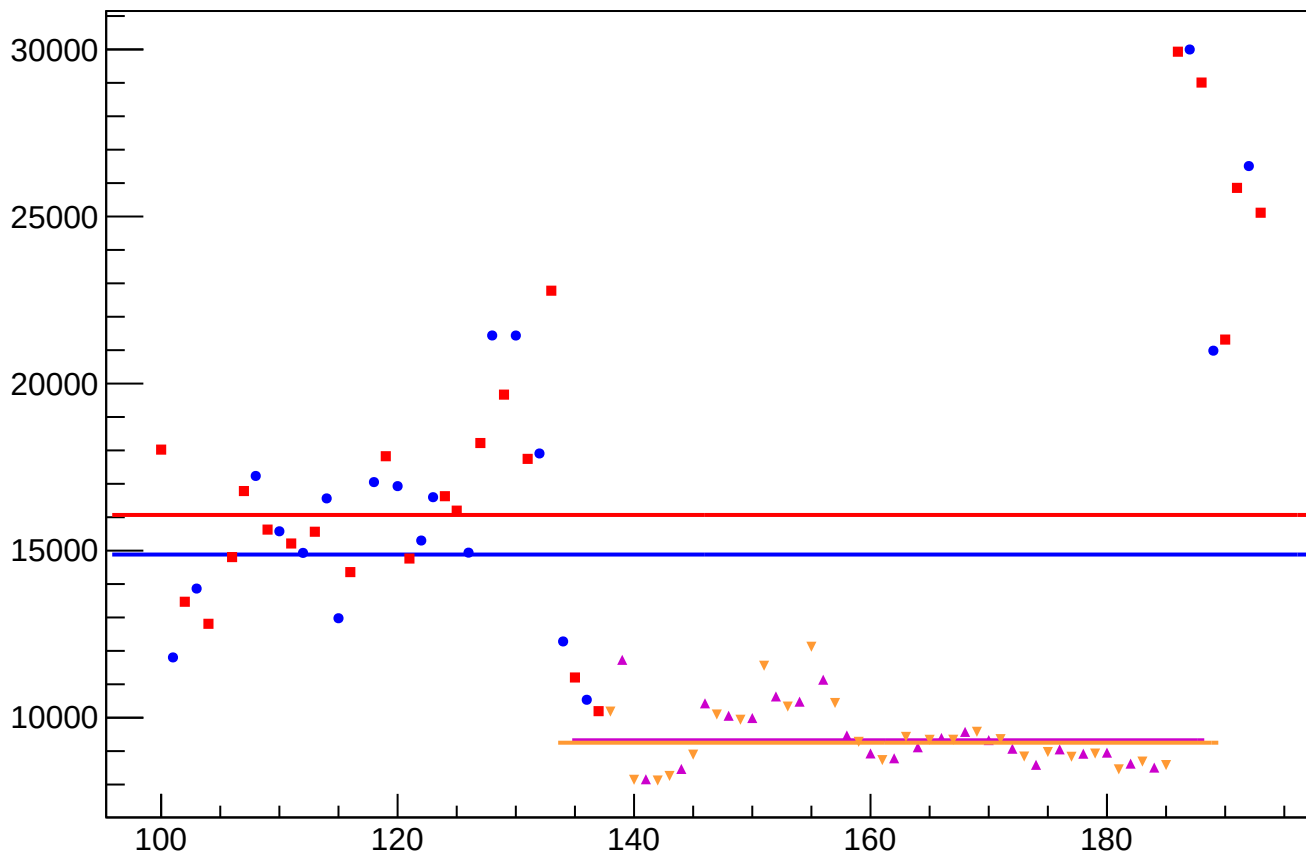
Out: -7.360 ± 2.012

$\chi^2/\text{NDF}: 90.1/48$

All: -4.391 ± 1.446

$\chi^2/\text{NDF}: 149.9/91$

diff_bpm4aX_rms vs Slug, Sign Corrected



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

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

Right Out: 16068.095+/-3.797 χ^2/NDF : 1383123.5/23

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

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

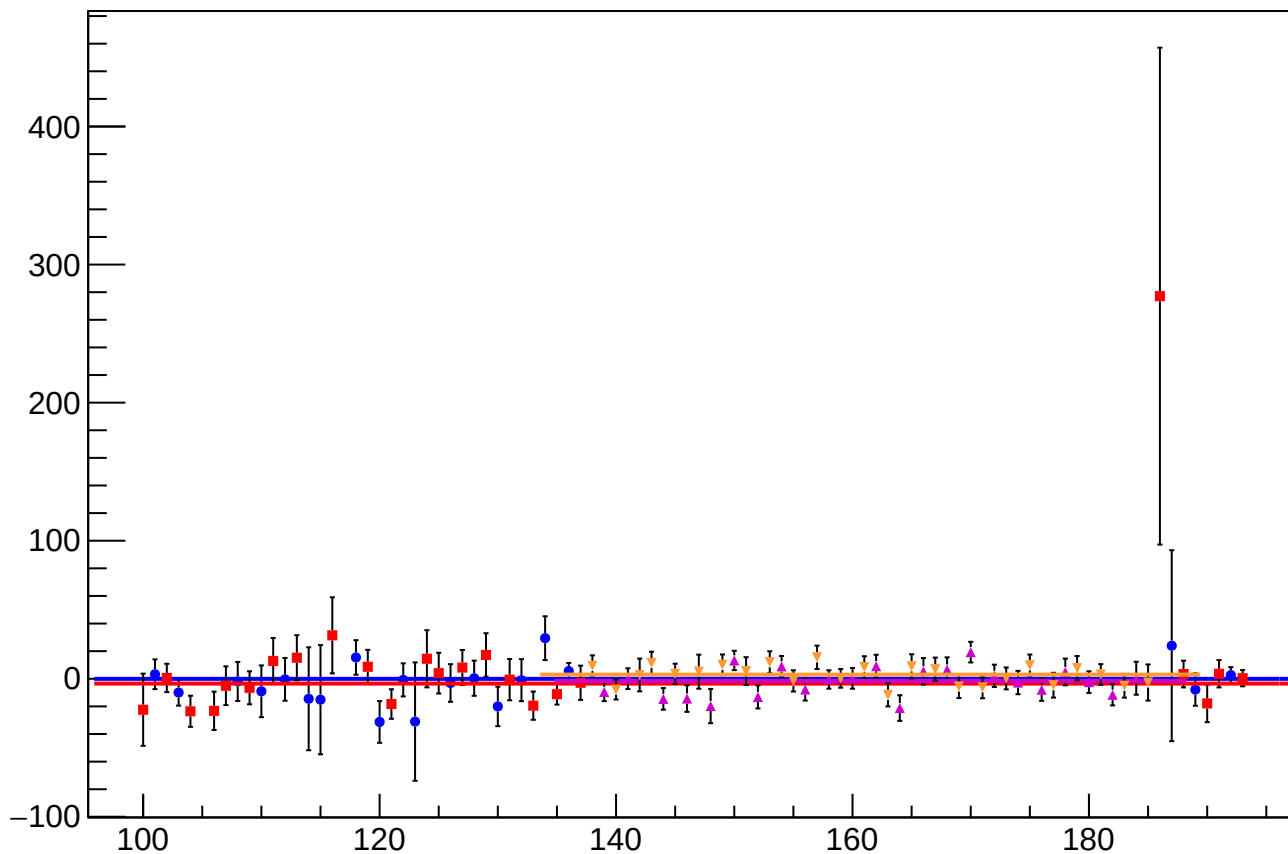
Right: 15480.373+/-2.696 χ^2/NDF : 2569361.2/43

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

Out: 10208.671+/-1.423 χ^2/NDF : 4485017.2/48

All: 10177.013+/-1.022 χ^2/NDF : 7698141.6/95

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.050 $\pm$ 2.648 χ^2/NDF : 15.2/19

Left Out: 3.027 $\pm$ 1.661 χ^2/NDF :18.6/24

Right Out: -3.476 $\pm$ 2.420 χ^2/NDF : 24.9/23

Left In: -1.588 $\pm$ 1.703 χ^2/NDF :35.5/22

Left: 0.777 $\pm$ 1.189 χ^2/NDF : 57.8/47

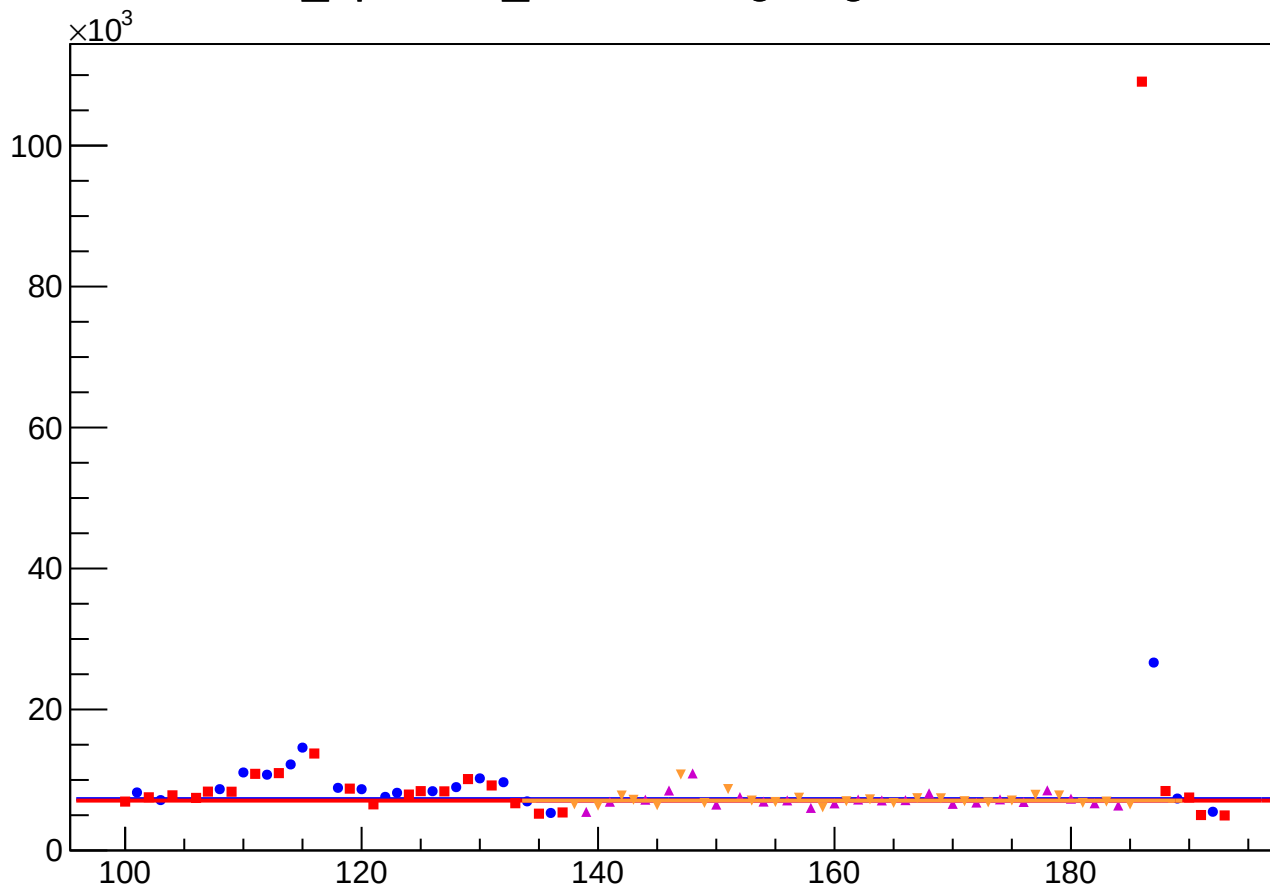
Right: -1.917 $\pm$ 1.786 χ^2/NDF : 41.0/43

In: -1.138 $\pm$ 1.432 χ^2/NDF :51.0/42

Out: 0.945 $\pm$ 1.369 χ^2/NDF :48.4/48

All: -0.050 $\pm$ 0.990 χ^2/NDF : 100.4/91

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7282.530 $\pm$ 1.872 χ^2/NDF : 1131488.5/19

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

Right Out: 7074.609 $\pm$ 1.711 χ^2/NDF : 1776734.7/23

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

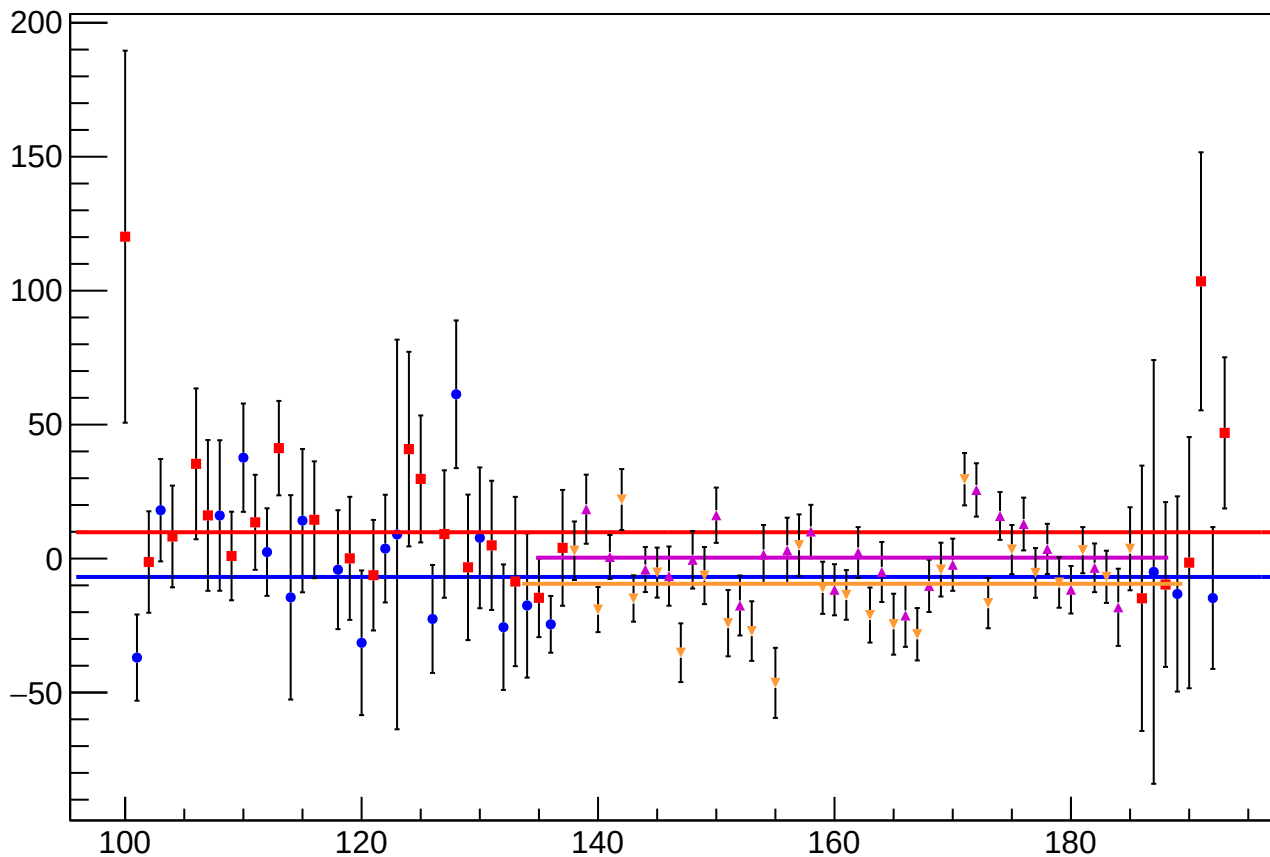
Right: 7169.220 $\pm$ 1.263 χ^2/NDF : 2914942.9/43

In: 7092.947 $\pm$ 1.013 χ^2/NDF : 1671291.7/42

Out: 7067.707 $\pm$ 0.968 χ^2/NDF : 2163573.5/48

All: 7079.760 $\pm$ 0.700 χ^2/NDF : 3835189.8/91

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.860 ± 4.886 χ^2/NDF : 23.6/19

Left Out: -9.411 ± 2.021 χ^2/NDF : 58.8/24

Right Out: 9.832 ± 4.796 χ^2/NDF : 19.2/23

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

Left: -4.722 ± 1.456 χ^2/NDF : 99.9/47

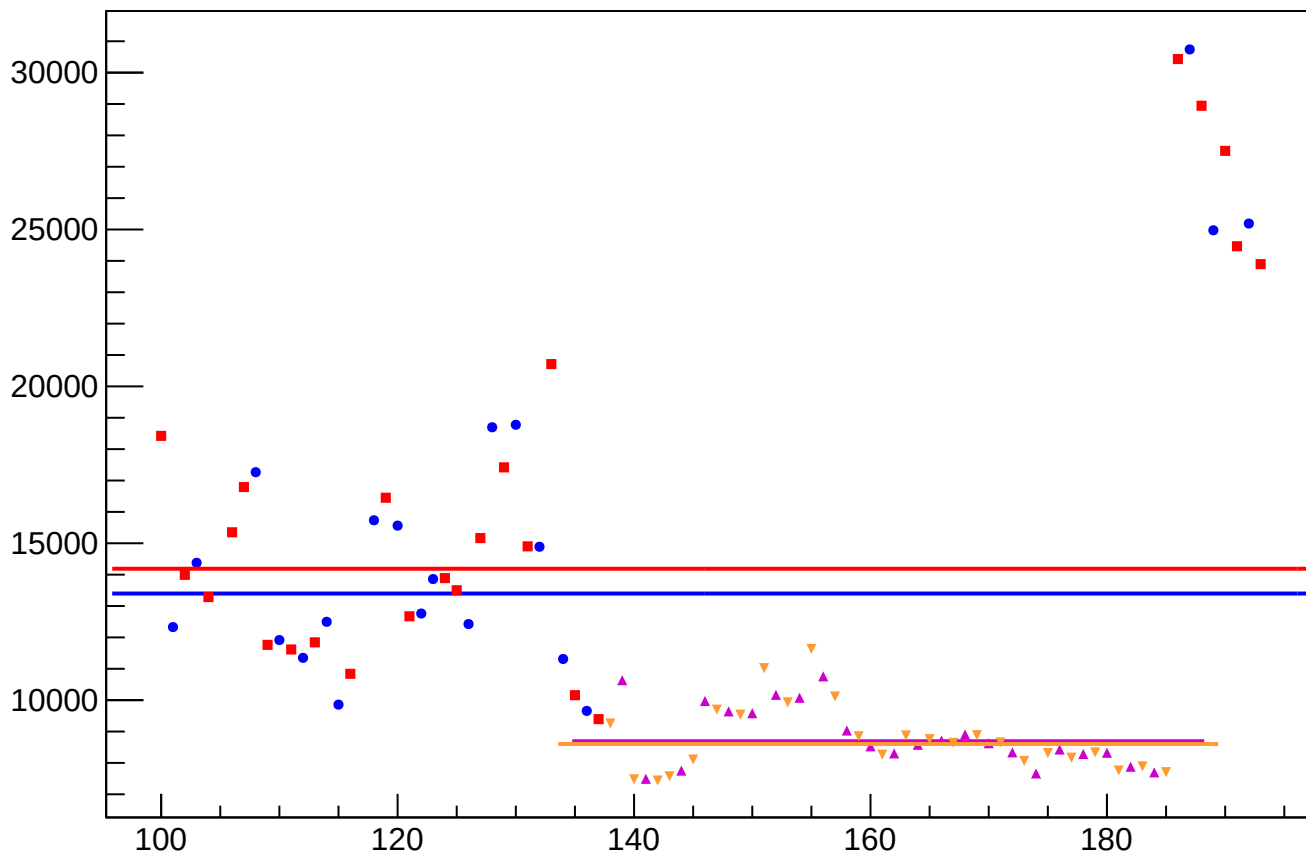
Right: 1.640 ± 3.423 χ^2/NDF : 48.8/43

In: -0.780 ± 1.930 χ^2/NDF : 55.4/42

Out: -6.510 ± 1.862 χ^2/NDF : 91.6/48

All: -3.747 ± 1.340 χ^2/NDF : 151.6/91

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 13397.976+/-3.455 χ^2/NDF : 1294157.6/19

Left Out: 8602.220+/-1.429 χ^2/NDF : 438805.2/24

Right Out: 14188.982+/-3.392 χ^2/NDF : 1764700.3/23

Left In: 8691.203+/-1.485 χ^2/NDF : 365254.6/22

Left: 8644.996+/-1.030 χ^2/NDF : 805923.5/47

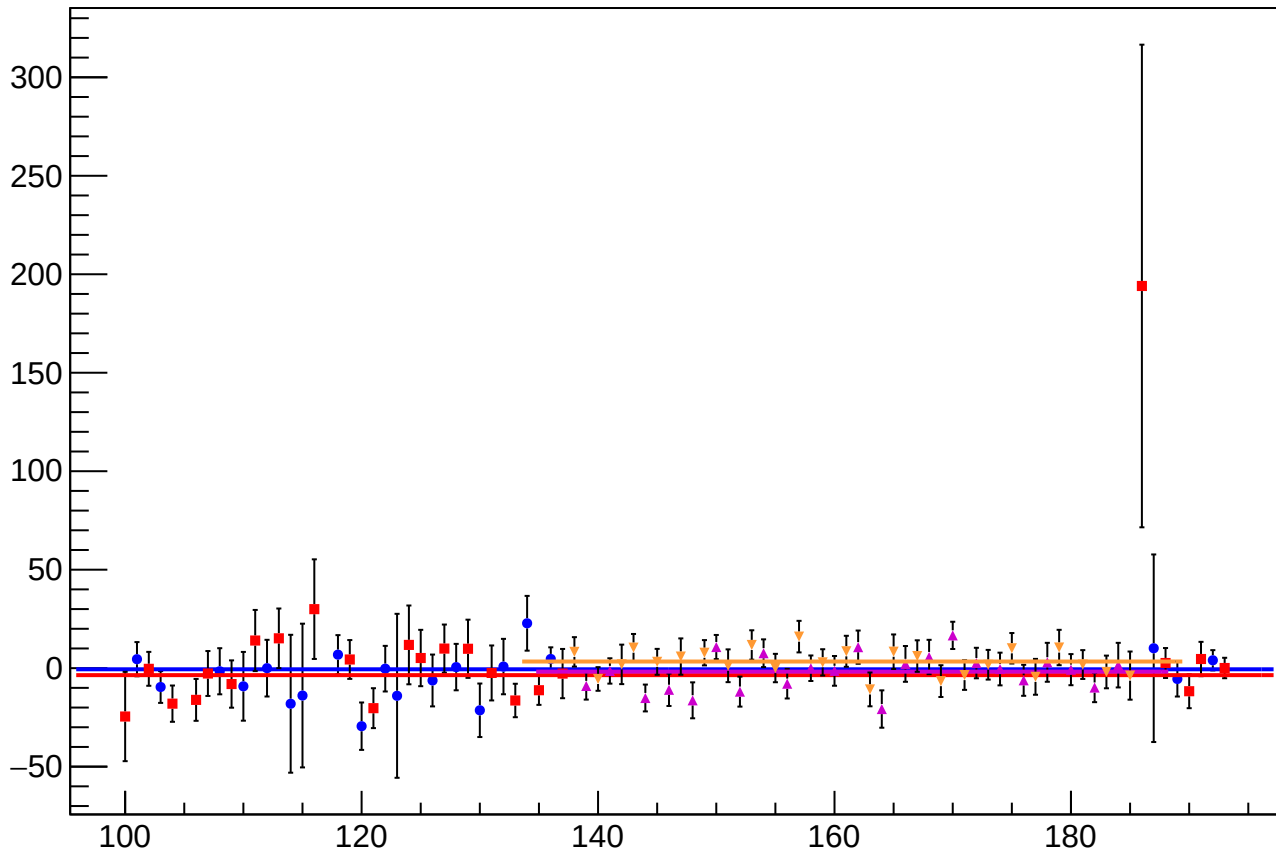
Right: 13800.798+/-2.420 χ^2/NDF : 3085551.8/43

In: 9425.386+/-1.365 χ^2/NDF : 3225852.5/42

Out: 9444.543+/-1.317 χ^2/NDF : 4507803.5/48

All: 9435.304+/-0.948 χ^2/NDF : 7733758.1/91

diff_bpm4eY_mean vs Slug, Sign Corrected



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

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

Right Out: -3.541 ± 2.112 χ^2/NDF : 24.9/23

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

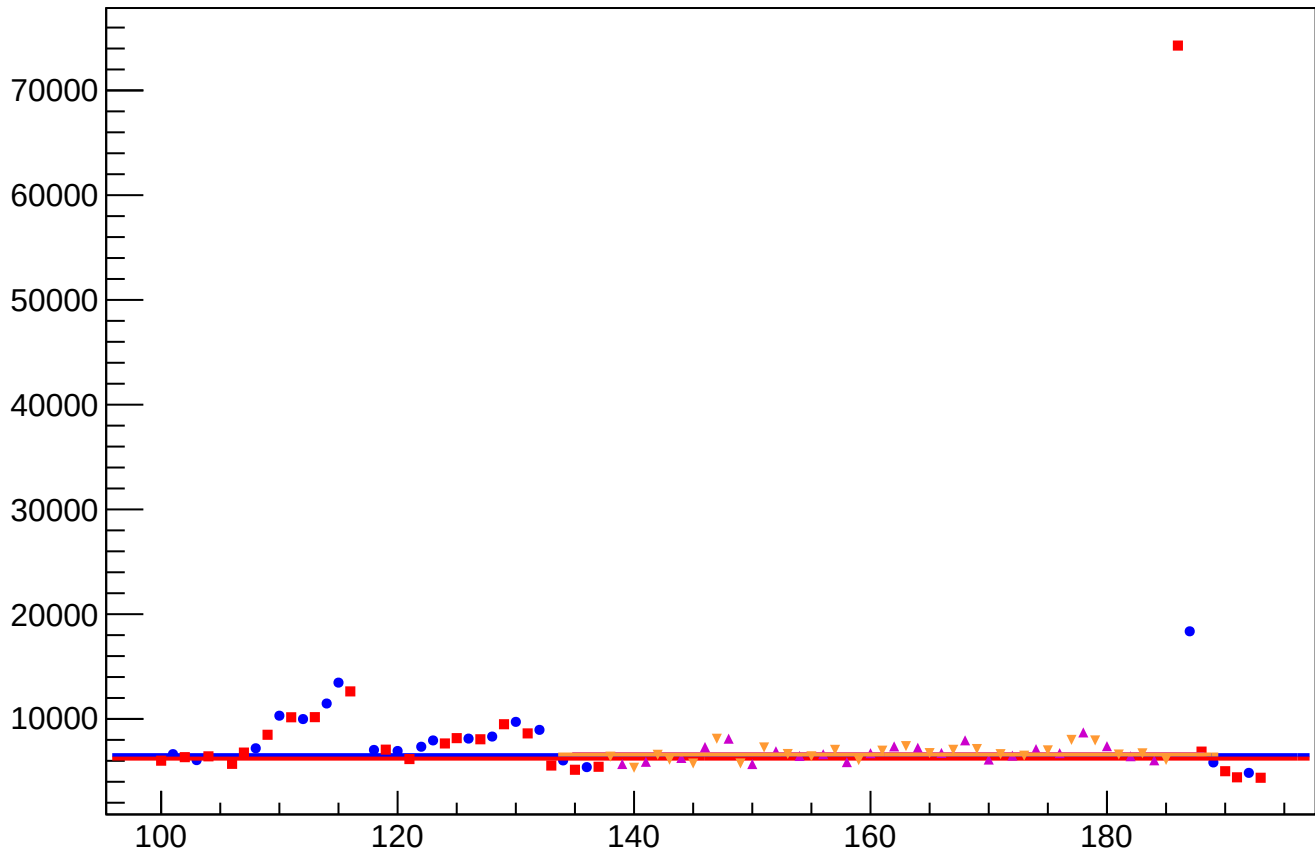
Right: -2.223 ± 1.575 χ^2/NDF : 41.7/43

In: -1.381 ± 1.329 χ^2/NDF : 49.7/42

Out: 0.950 ± 1.251 χ^2/NDF : 49.0/48

All: -0.145 ± 0.911 χ^2/NDF : 100.3/91

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6542.518 $\pm$ 1.672 χ^2/NDF : 1024144.4/19

Left Out: 6603.953 $\pm$ 1.097 χ^2/NDF : 395247.5/24

Right Out: 6211.650 $\pm$ 1.493 χ^2/NDF : 1809723.3/23

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

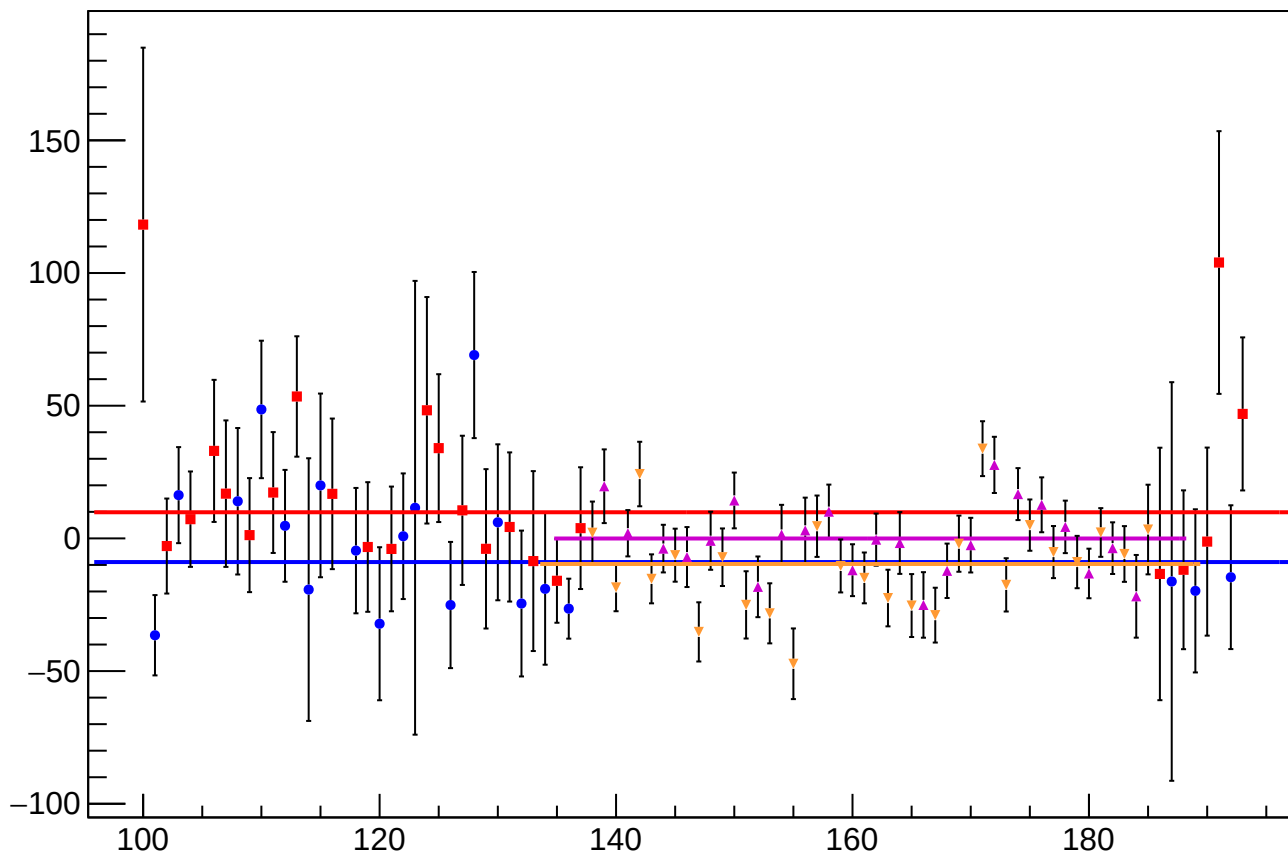
Right: 6358.475 $\pm$ 1.114 χ^2/NDF : 2855649.8/43

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

Out: 6466.414 $\pm$ 0.884 χ^2/NDF : 2249784.1/48

All: 6532.548 $\pm$ 0.644 χ^2/NDF : 3703579.8/91

diff_bpm4acX_mean vs Slug, Sign Corrected



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

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

Right Out: 9.849 ± 5.261 $\chi^2/\text{NDF}: 19.6/23$

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

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

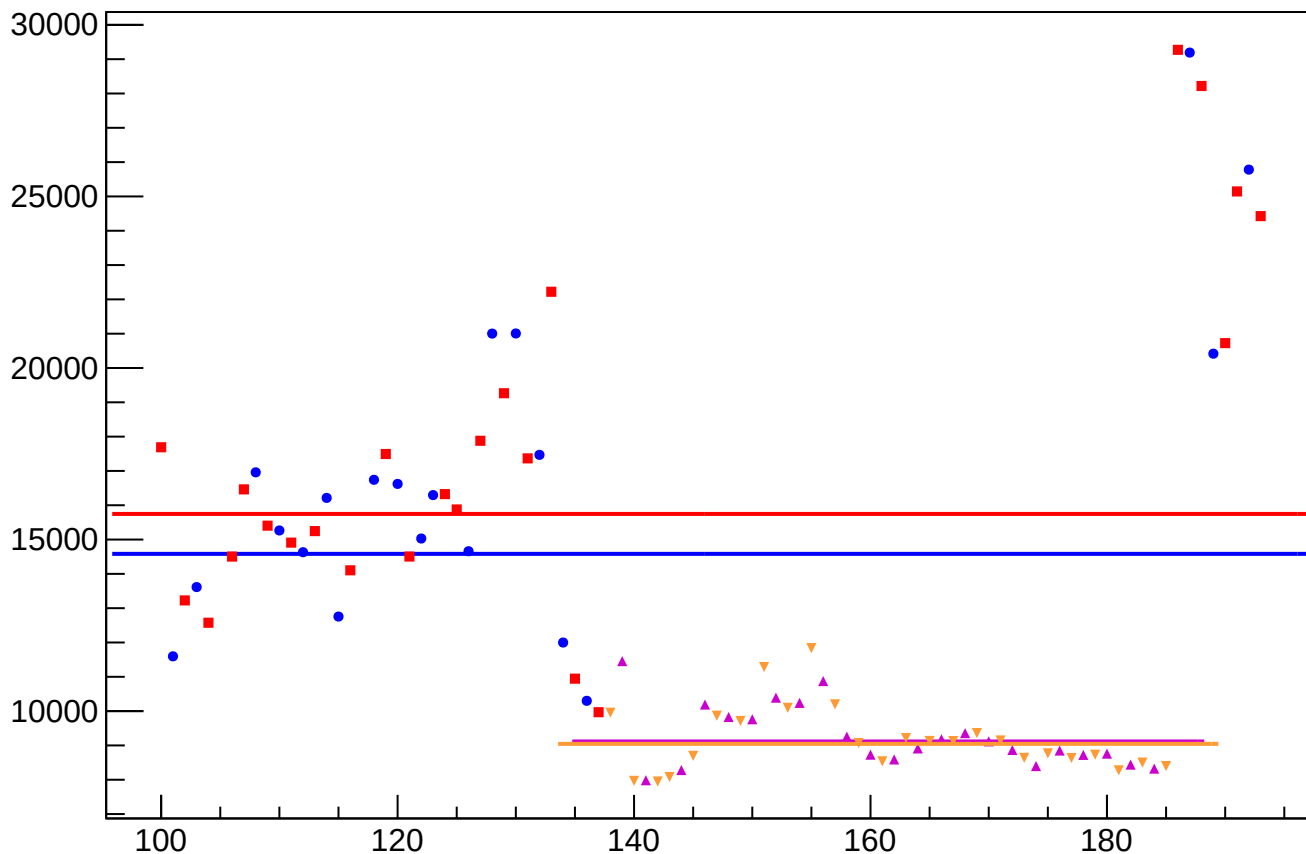
Right: 0.542 ± 3.735 $\chi^2/\text{NDF}: 48.9/43$

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

Out: -6.913 ± 1.968 $\chi^2/\text{NDF}: 91.3/48$

All: -4.219 ± 1.414 $\chi^2/\text{NDF}: 151.3/91$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14583.193 ± 3.750 $\chi^2/\text{NDF}: 1130611.8/19$

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

Right Out: 15746.822 ± 3.720 $\chi^2/\text{NDF}: 1368097.1/23$

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

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

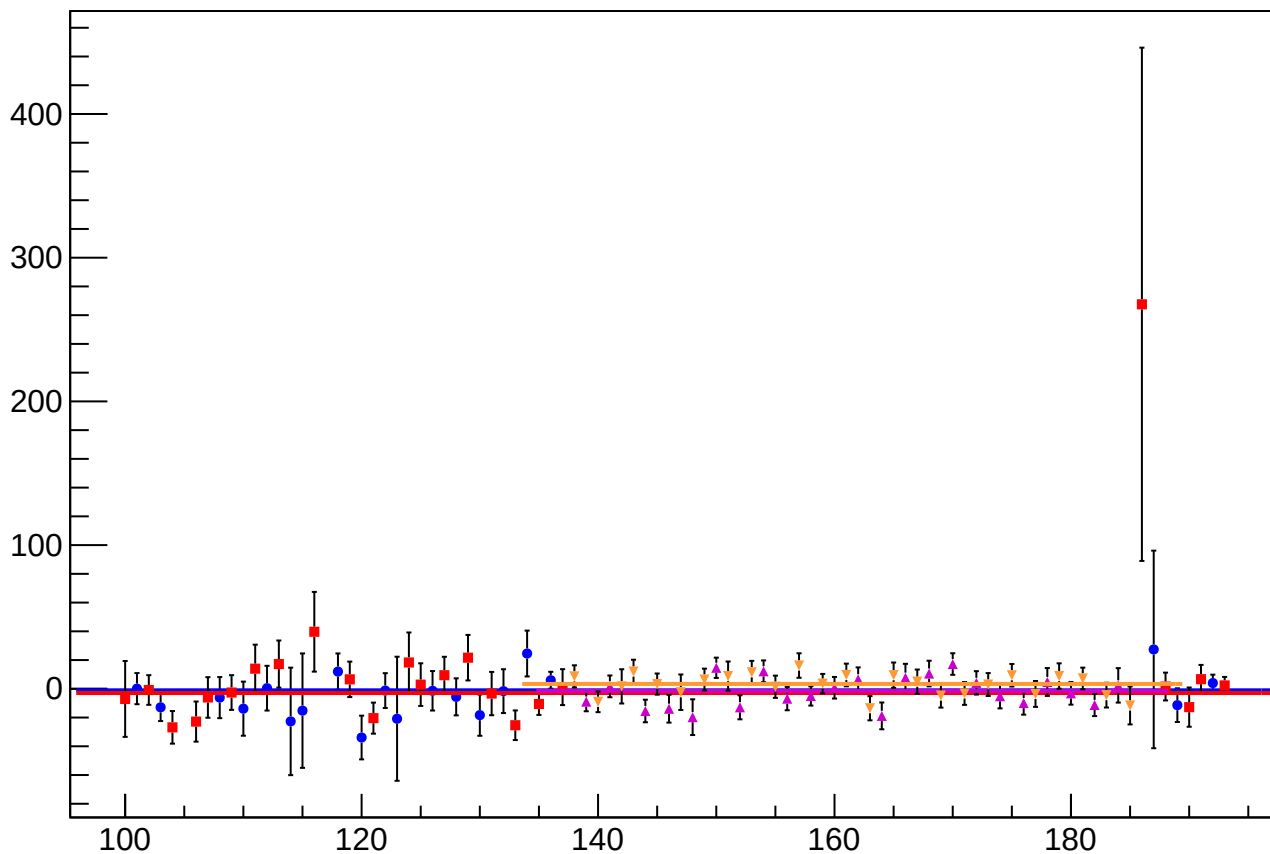
Right: 15169.640 ± 2.641 $\chi^2/\text{NDF}: 2547242.9/43$

In: 9918.741 ± 1.437 $\chi^2/\text{NDF}: 3216852.2/42$

Out: 9983.341 ± 1.391 $\chi^2/\text{NDF}: 4487477.8/48$

All: 9952.082 ± 1.000 $\chi^2/\text{NDF}: 7705373.1/91$

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.060 ± 2.663 χ^2/NDF : 15.8/19

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

Right Out: -2.927 ± 2.435 χ^2/NDF : 29.9/23

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

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

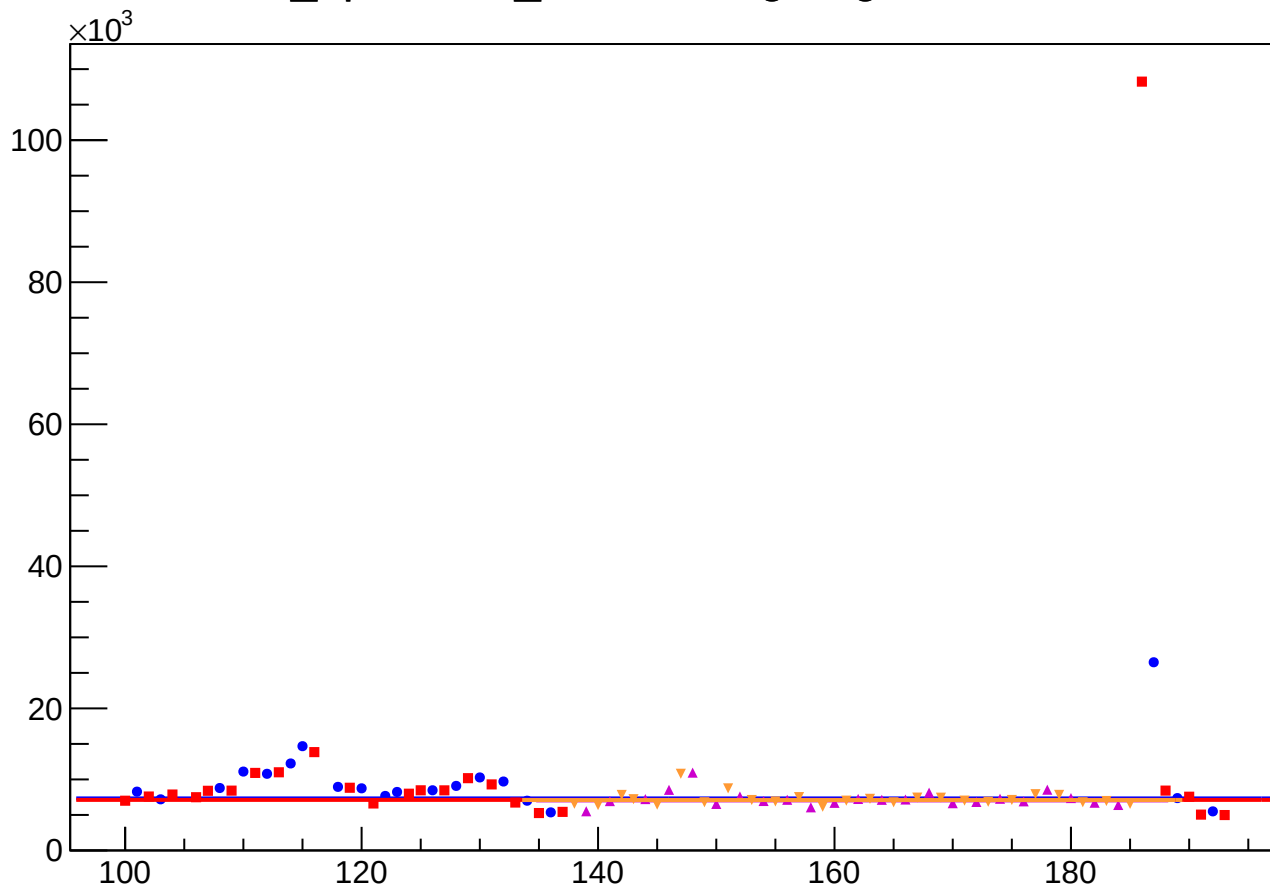
Right: -2.077 ± 1.797 χ^2/NDF : 45.9/43

In: -1.357 ± 1.439 χ^2/NDF : 52.6/42

Out: 1.370 ± 1.376 χ^2/NDF : 53.8/48

All: 0.068 ± 0.995 χ^2/NDF : 108.3/91

diff_bpm4acY_rms vs Slug, Sign Corrected



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

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

Right Out: 7120.227 $\pm$ 1.721 χ^2/NDF : 1775030.9/23

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

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

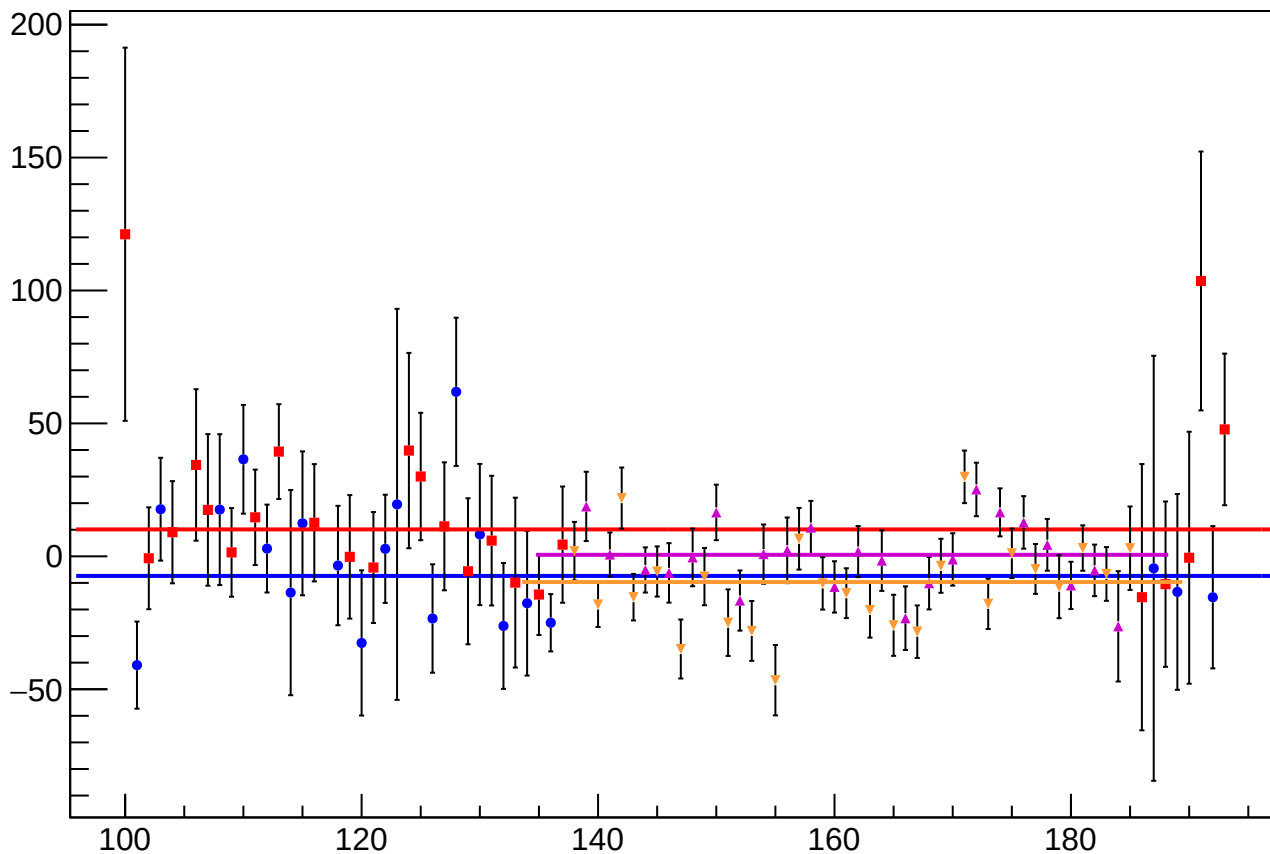
Right: 7213.621 $\pm$ 1.271 χ^2/NDF : 2915258.0/43

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

Out: 7103.977 $\pm$ 0.973 χ^2/NDF : 2157103.9/48

All: 7115.672 $\pm$ 0.703 χ^2/NDF : 3824043.5/91

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

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

Right Out: 10.125 ± 4.863 $\chi^2/\text{NDF}: 18.3/23$

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

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

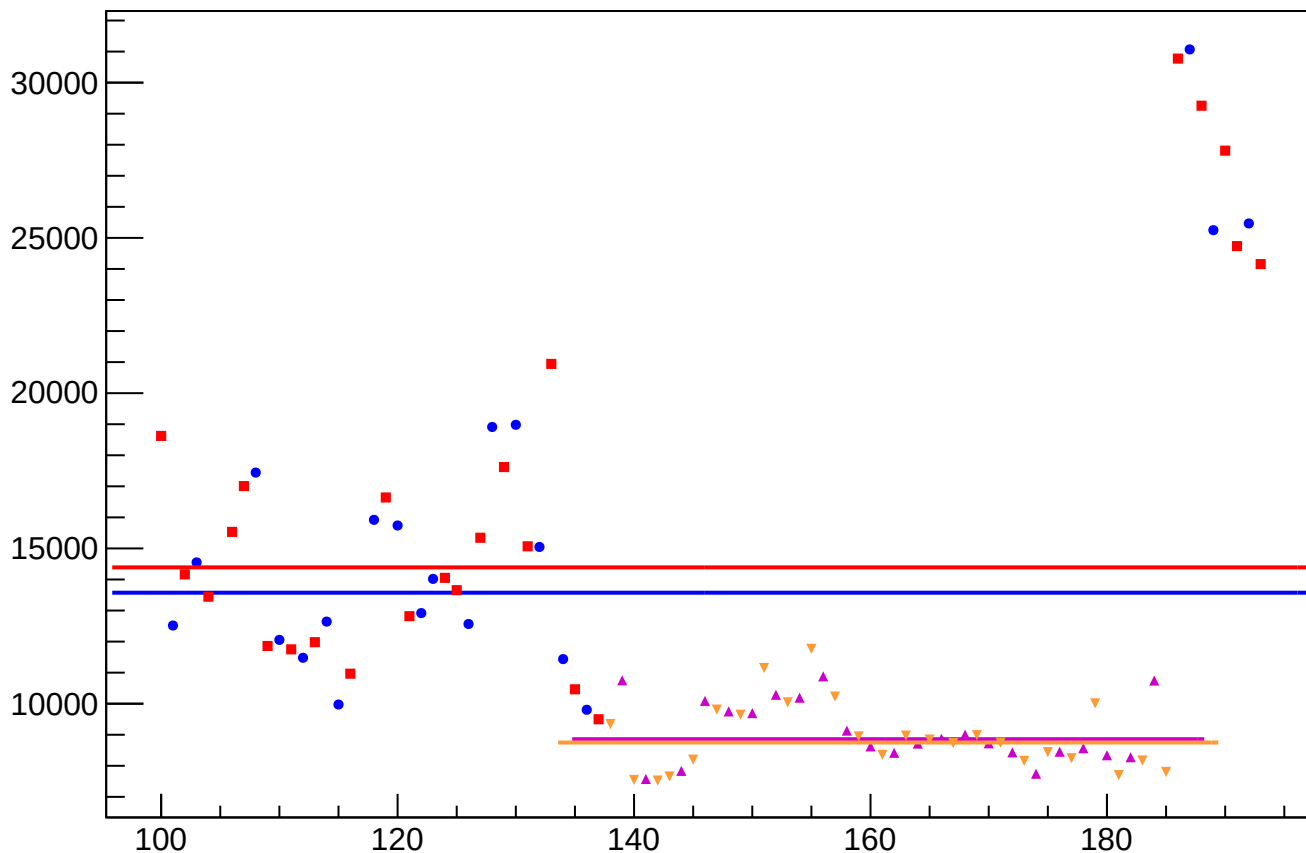
Right: 1.533 ± 3.469 $\chi^2/\text{NDF}: 48.8/43$

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

Out: -6.657 ± 1.897 $\chi^2/\text{NDF}: 90.2/48$

All: -3.781 ± 1.366 $\chi^2/\text{NDF}: 151.1/91$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13574.443 $\pm$ 3.501 χ^2 /NDF: 1284328.1/19

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

Right Out: 14390.012 $\pm$ 3.439 χ^2 /NDF: 1744516.7/23

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

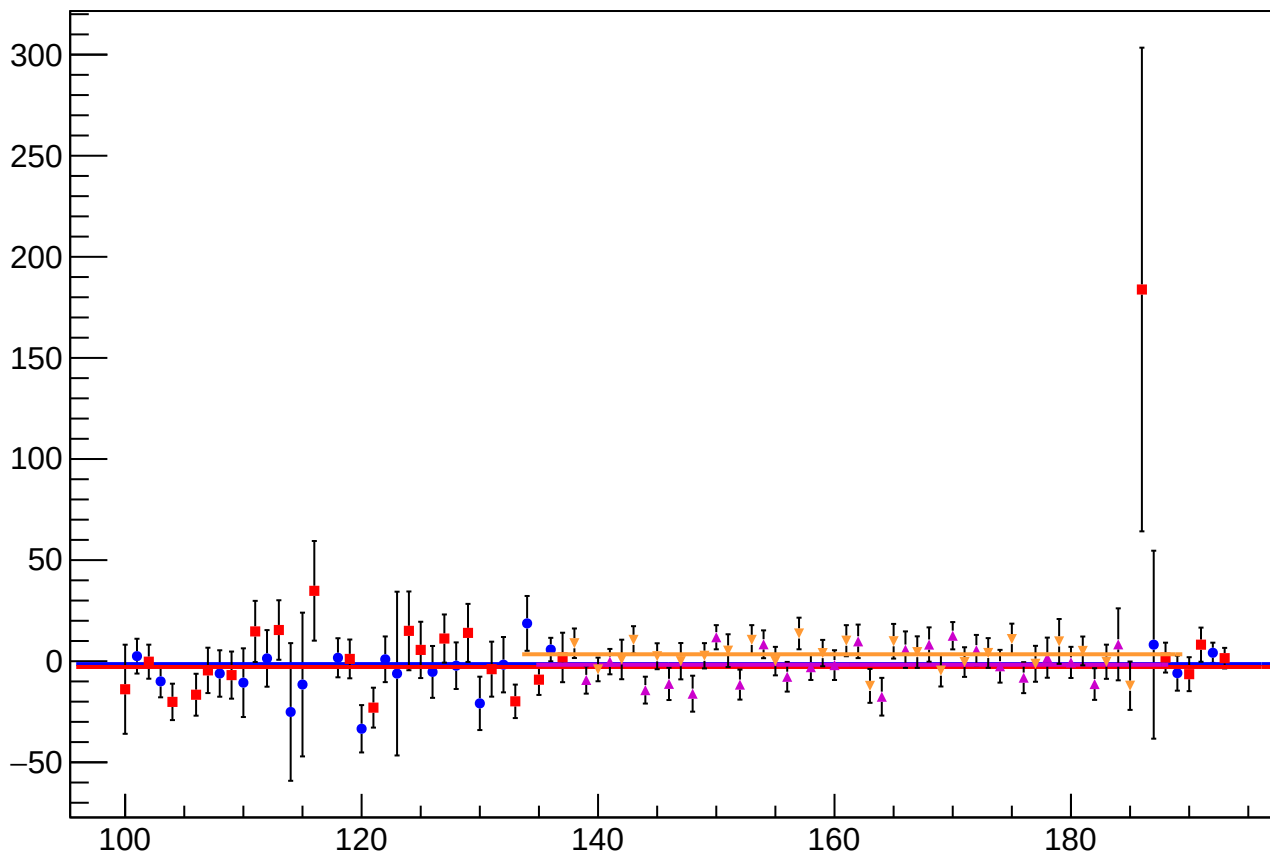
Right: 13989.500 $\pm$ 2.453 χ^2 /NDF: 3056465.1/43

In: 9602.055 $\pm$ 1.391 χ^2 /NDF: 3175036.1/42

Out: 9608.765 $\pm$ 1.342 χ^2 /NDF: 4488423.6/48

All: 9605.531 $\pm$ 0.966 χ^2 /NDF: 7663471.7/91

diff_bpm4ecY_mean vs Slug, Sign Corrected



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

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

Right Out: -2.850 ± 2.067 χ^2/NDF : 30.0/23

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

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

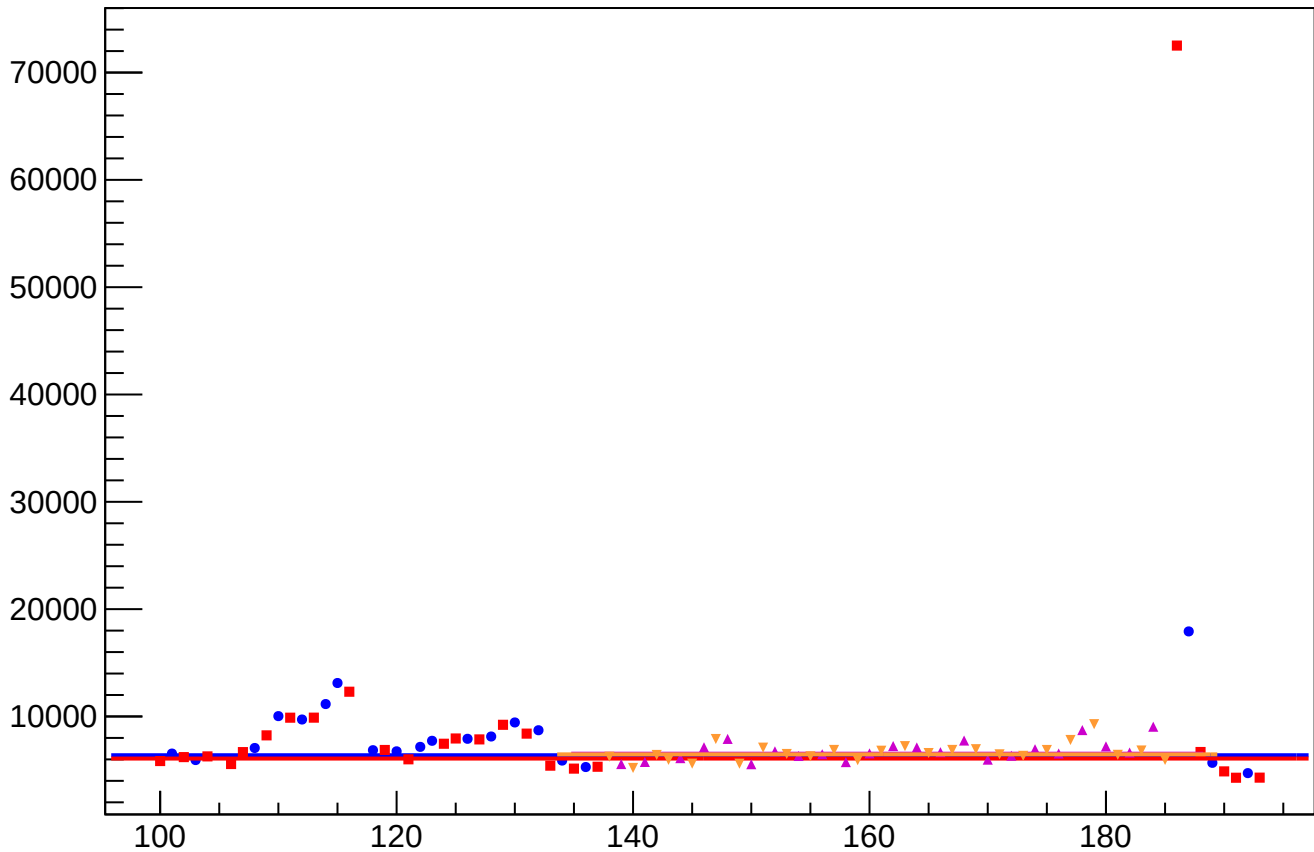
Right: -2.219 ± 1.541 χ^2/NDF : 47.8/43

In: -1.637 ± 1.308 χ^2/NDF : 51.2/42

Out: 1.217 ± 1.228 χ^2/NDF : 52.2/48

All: -0.120 ± 0.895 χ^2/NDF : 105.9/91

diff_bpm4ecY_rms vs Slug, Sign Corrected



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

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

Right Out: 6077.561+/-1.462 χ^2/NDF : 1786002.1/23

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

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

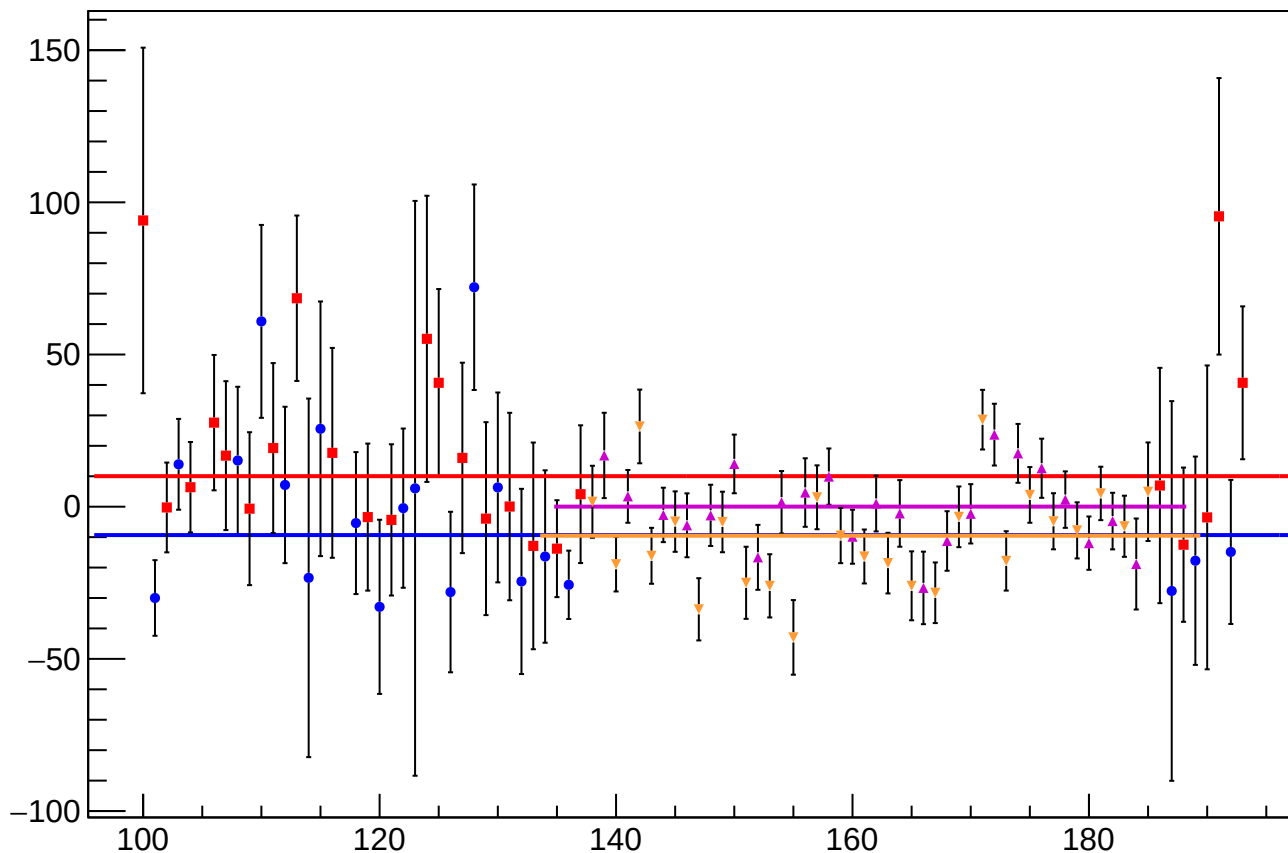
Right: 6215.629+/-1.089 χ^2/NDF : 2826844.4/43

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

Out: 6330.881+/-0.868 χ^2/NDF : 2319586.8/48

All: 6403.186+/-0.633 χ^2/NDF : 3825033.7/91

diff_bpm1X_mean vs Slug, Sign Corrected



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

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

Right Out: 10.029 ± 5.160 χ^2/NDF : 20.0/23

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

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

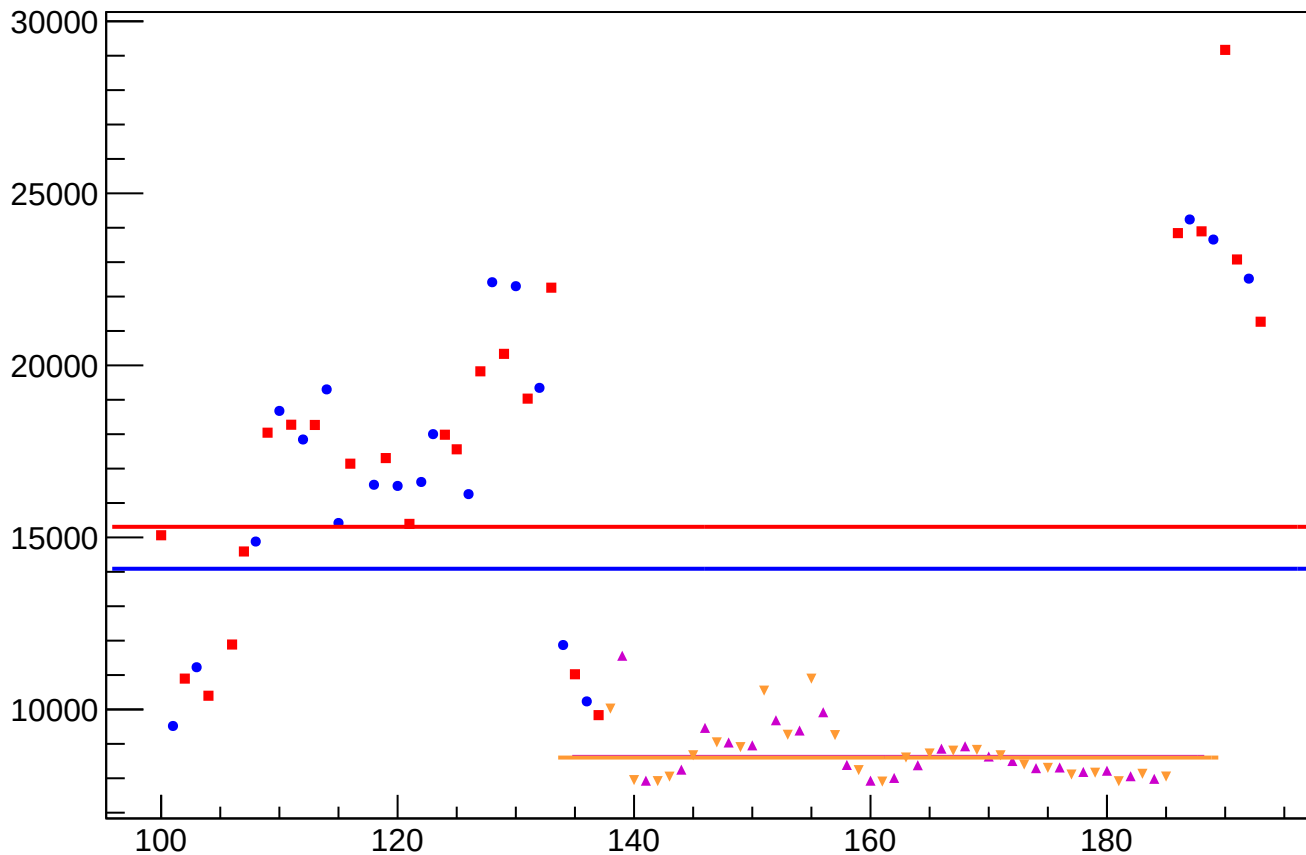
Right: 0.404 ± 3.658 χ^2/NDF : 49.3/43

In: -1.268 ± 1.930 χ^2/NDF : 55.0/42

Out: -6.940 ± 1.877 χ^2/NDF : 92.0/48

All: -4.184 ± 1.346 χ^2/NDF : 151.4/91

diff_bpm1X_rms vs Slug, Sign Corrected



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

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

Right Out: 15308.175+/-3.648 χ^2/NDF : 1672318.4/23

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

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

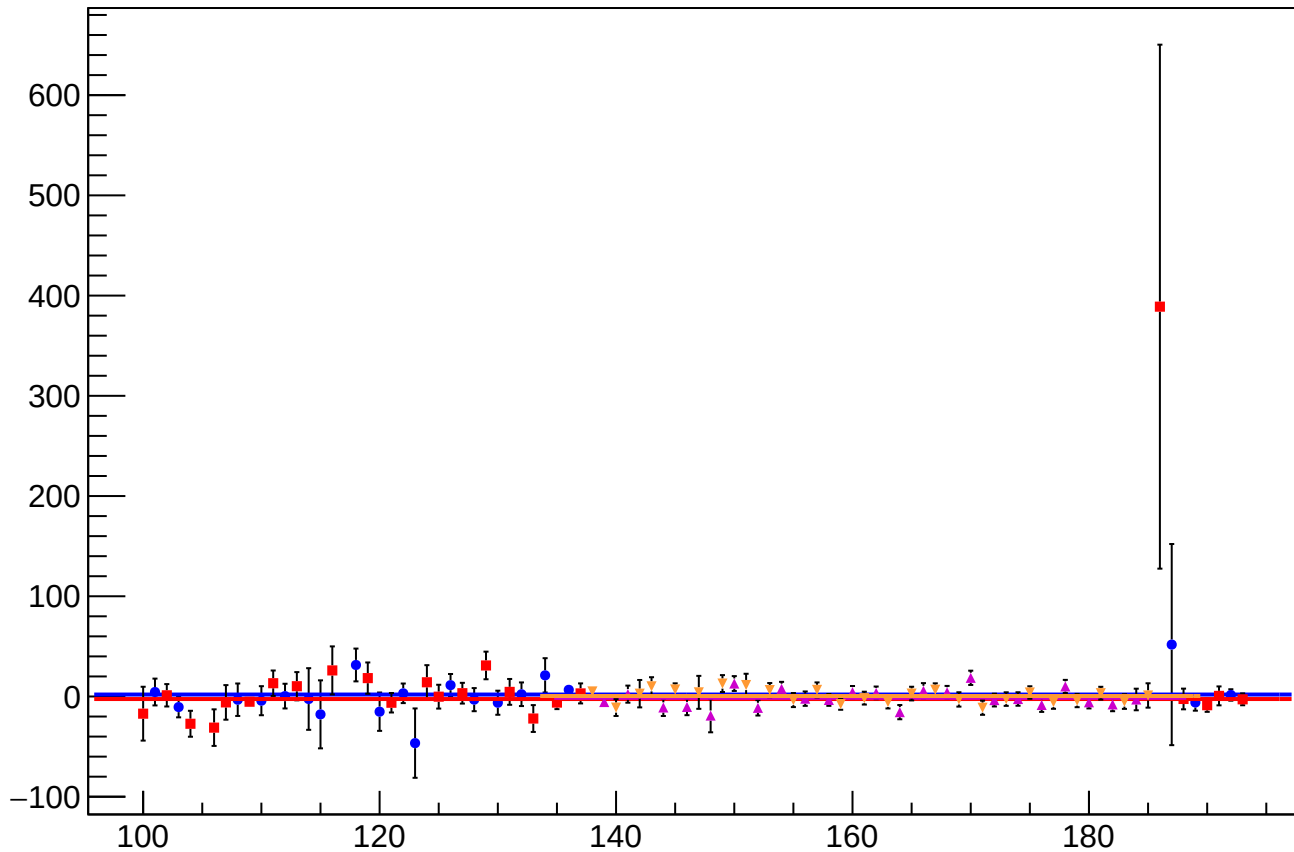
Right: 14701.936+/-2.587 χ^2/NDF : 3279087.4/43

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

Out: 9489.531+/-1.327 χ^2/NDF : 4852650.4/48

All: 9435.987+/-0.952 χ^2/NDF : 8552609.3/91

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.950 $\pm$ 2.375 χ^2/NDF : 13.1/19

Left Out: 0.481 $\pm$ 1.419 χ^2/NDF : 19.6/24

Right Out: -2.536 $\pm$ 2.044 χ^2/NDF : 26.1/23

Left In: -1.298 $\pm$ 1.406 χ^2/NDF : 33.0/22

Left: -0.417 $\pm$ 0.999 χ^2/NDF : 53.4/47

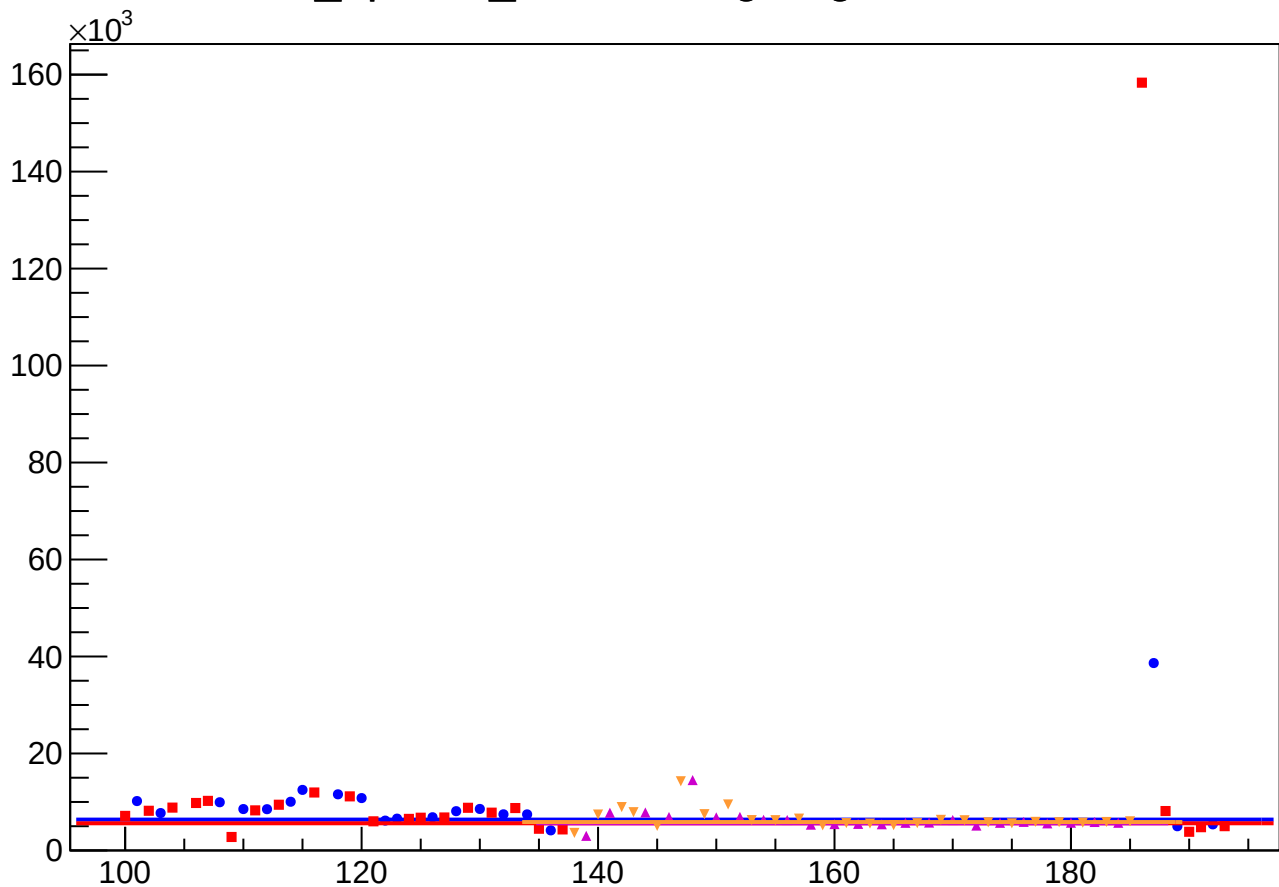
Right: -0.627 $\pm$ 1.549 χ^2/NDF : 41.2/43

In: -0.455 $\pm$ 1.210 χ^2/NDF : 47.5/42

Out: -0.501 $\pm$ 1.166 χ^2/NDF : 47.1/48

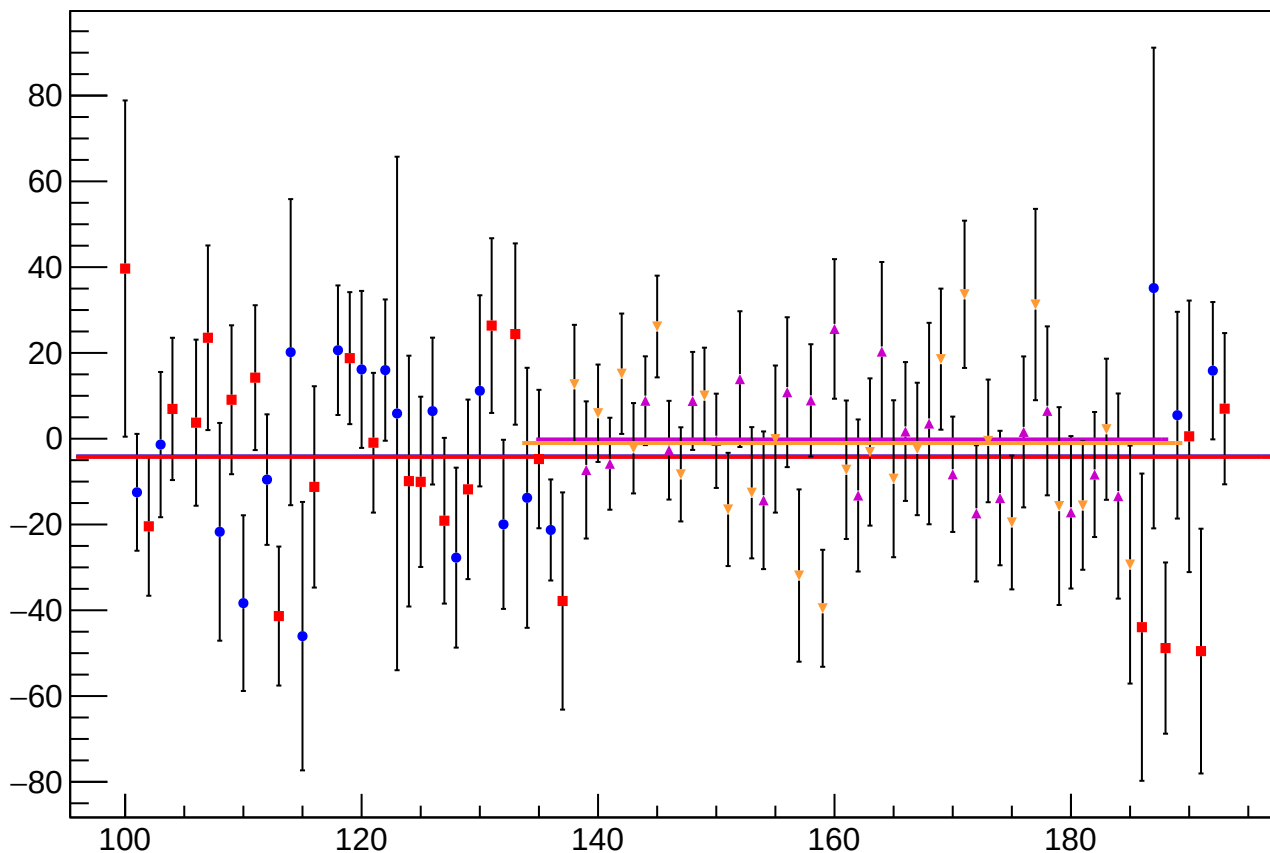
All: -0.479 $\pm$ 0.840 χ^2/NDF : 94.6/91

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6362.951+/-1.679	χ^2/NDF : 1748596.1/19	Left: 5726.555+/-0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642+/-1.004	χ^2/NDF : 1691344.1/24	Right: 5926.556+/-1.095	χ^2/NDF : 5143824.0/43
Right Out: 5603.260+/-1.445	χ^2/NDF : 3277635.6/23	In: 5795.786+/-0.856	χ^2/NDF : 3992459.7/42
Left In: 5596.879+/-0.994	χ^2/NDF : 2089750.1/22	Out: 5775.560+/-0.824	χ^2/NDF : 4990047.6/48
		All: 5785.297+/-0.594	χ^2/NDF : 8982797.1/91

diff_bpm11X_mean vs Slug, Sign Corrected



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

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

Right Out: -4.224 ± 4.055 χ^2/NDF : 29.8/23

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

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

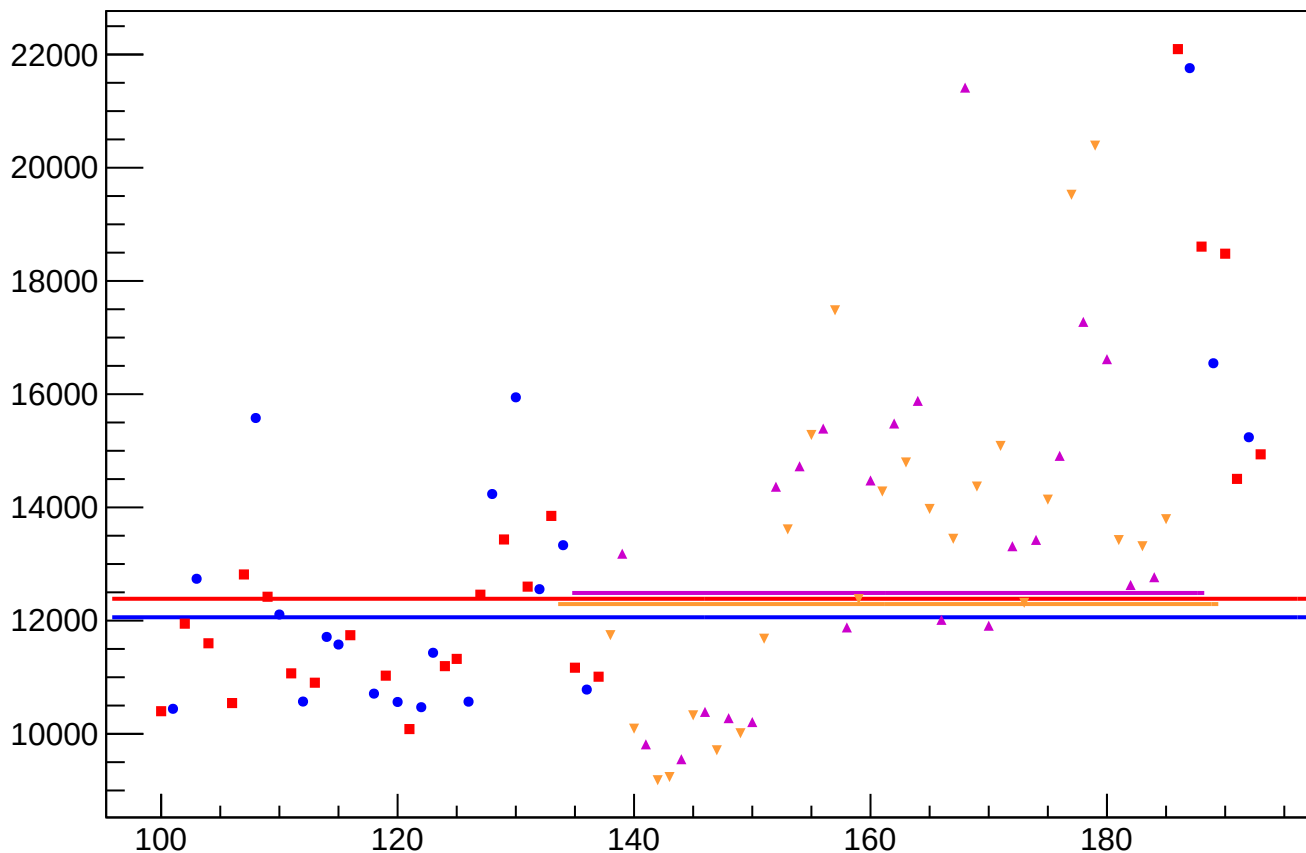
Right: -4.178 ± 2.941 χ^2/NDF : 48.5/43

In: -1.517 ± 2.492 χ^2/NDF : 31.6/42

Out: -2.116 ± 2.381 χ^2/NDF : 63.7/48

All: -1.830 ± 1.721 χ^2/NDF : 95.3/91

diff_bpm11X_rms vs Slug, Sign Corrected



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

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

Right Out: 12386.205+/-2.867 χ^2/NDF : 625356.2/23

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

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

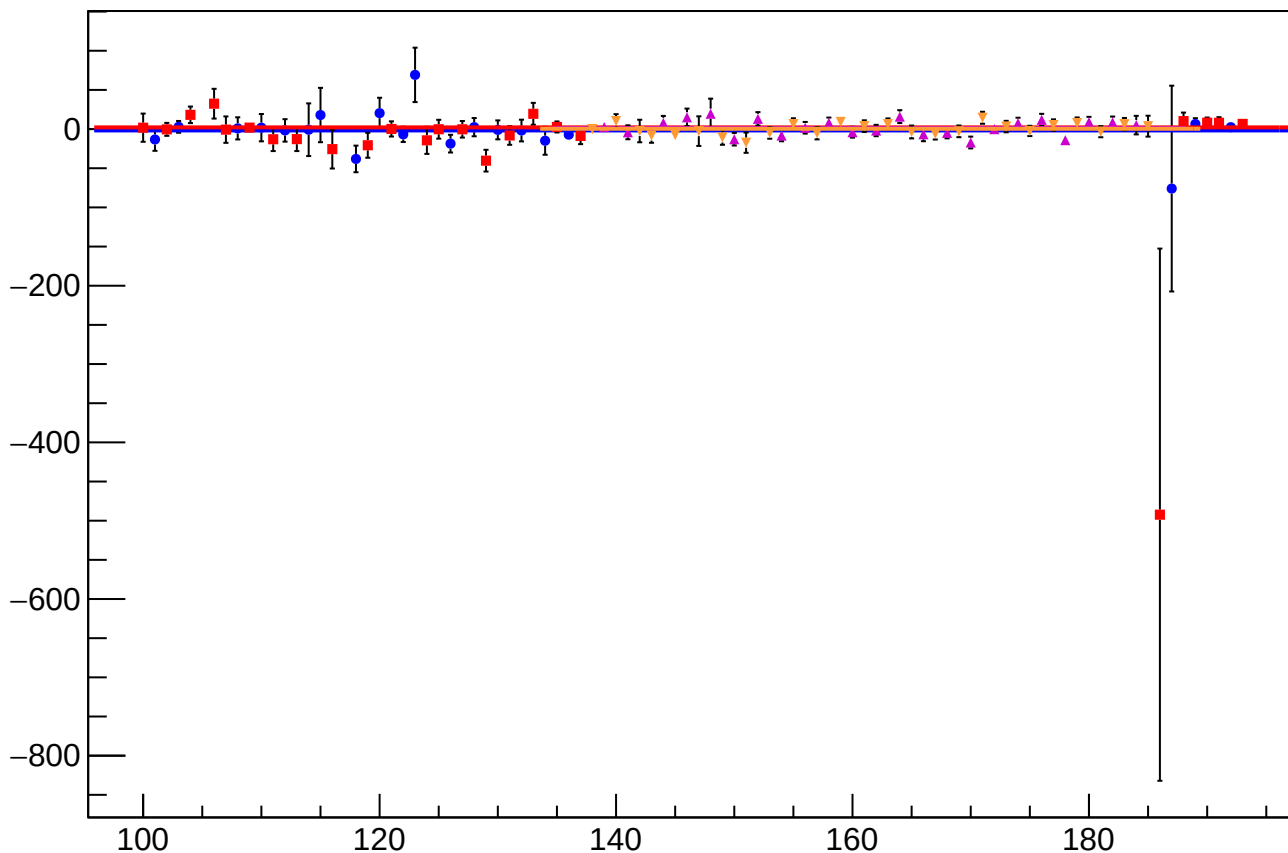
Right: 12231.347+/-2.080 χ^2/NDF : 1103268.6/43

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

Out: 12324.863+/-1.684 χ^2/NDF : 2128603.0/48

All: 12333.417+/-1.217 χ^2/NDF : 3968230.4/95

diff_bpm11Y_mean vs Slug, Sign Corrected



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

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

Right Out: 2.146 ± 1.953 $\chi^2/\text{NDF}: 29.1/23$

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

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

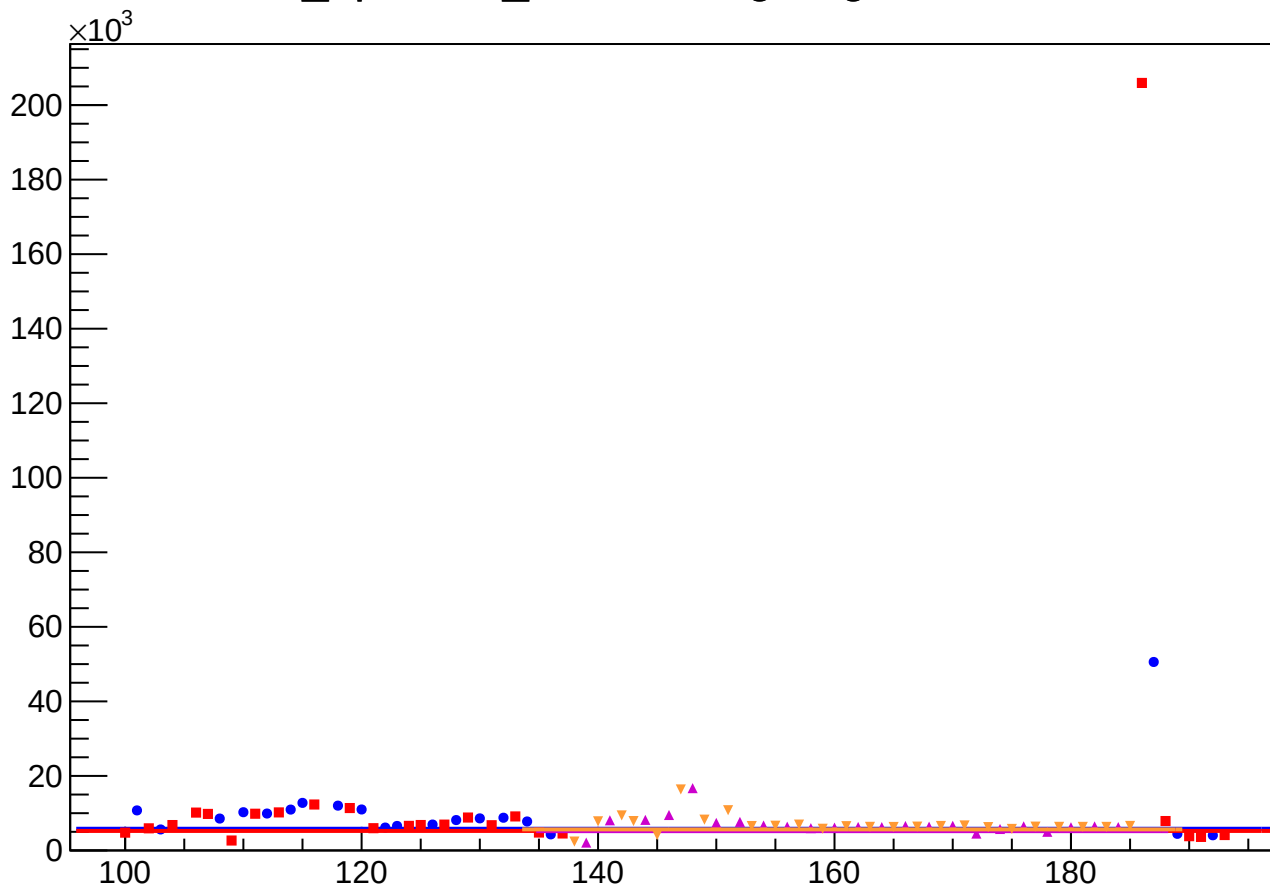
Right: 0.457 ± 1.468 $\chi^2/\text{NDF}: 49.1/43$

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

Out: 1.019 ± 1.156 $\chi^2/\text{NDF}: 48.9/48$

All: 0.732 ± 0.825 $\chi^2/\text{NDF}: 102.7/91$

diff_bpm11Y_rms vs Slug, Sign Corrected



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

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

Right Out: 5238.012 $\pm$ 1.381 χ^2/NDF : 3362848.5/23

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

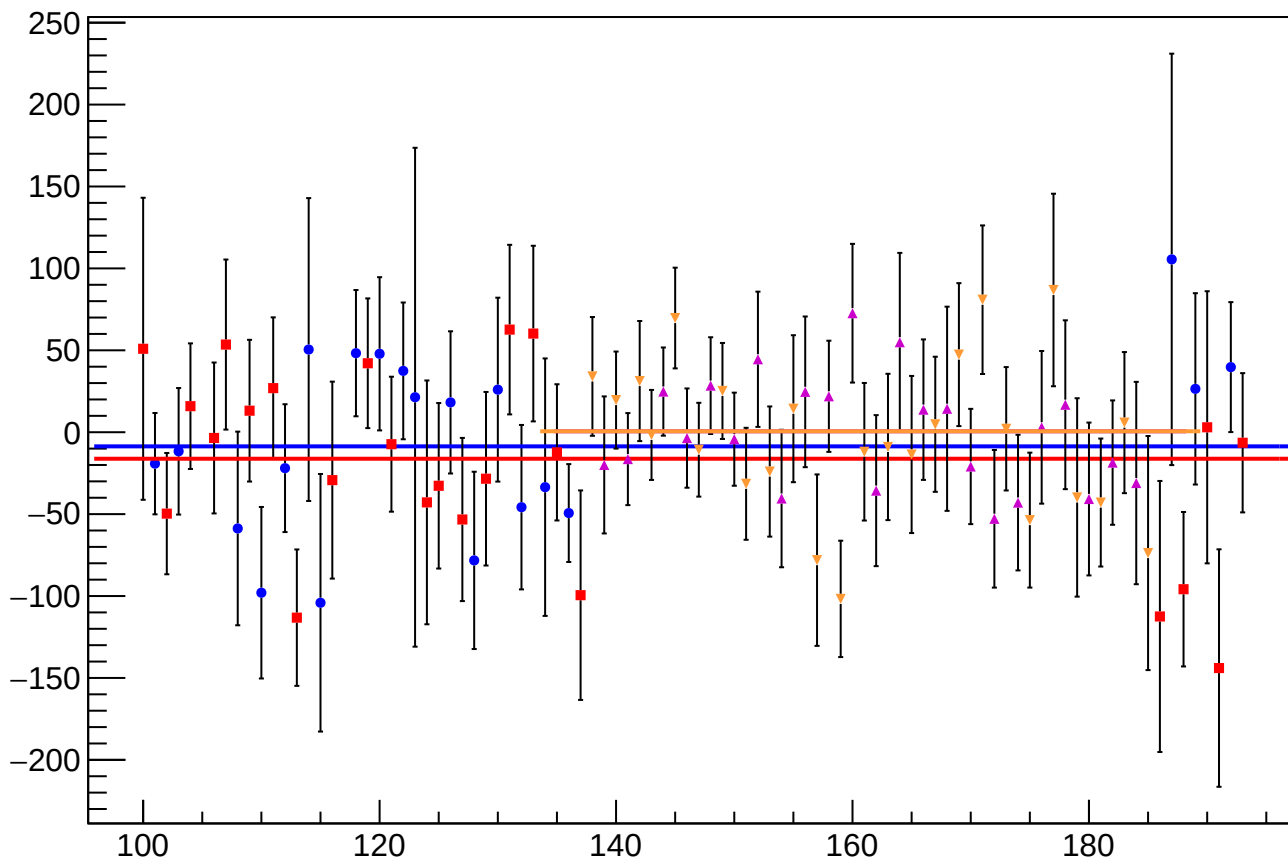
Right: 5491.605 $\pm$ 1.038 χ^2/NDF : 5732541.1/43

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

Out: 5509.242 $\pm$ 0.818 χ^2/NDF : 7546387.5/48

All: 5435.734 $\pm$ 0.583 χ^2/NDF : 15324332.6/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.637 $\pm$ 10.593 χ^2/NDF : 18.2/19

Left Out: 0.580 $\pm$ 7.691 χ^2/NDF : 31.0/24

Right Out: -16.187 $\pm$ 10.059 χ^2/NDF : 27.4/23

Left In: 0.565 $\pm$ 8.015 χ^2/NDF : 14.3/22

Left: 0.572 $\pm$ 5.549 χ^2/NDF : 45.3/47

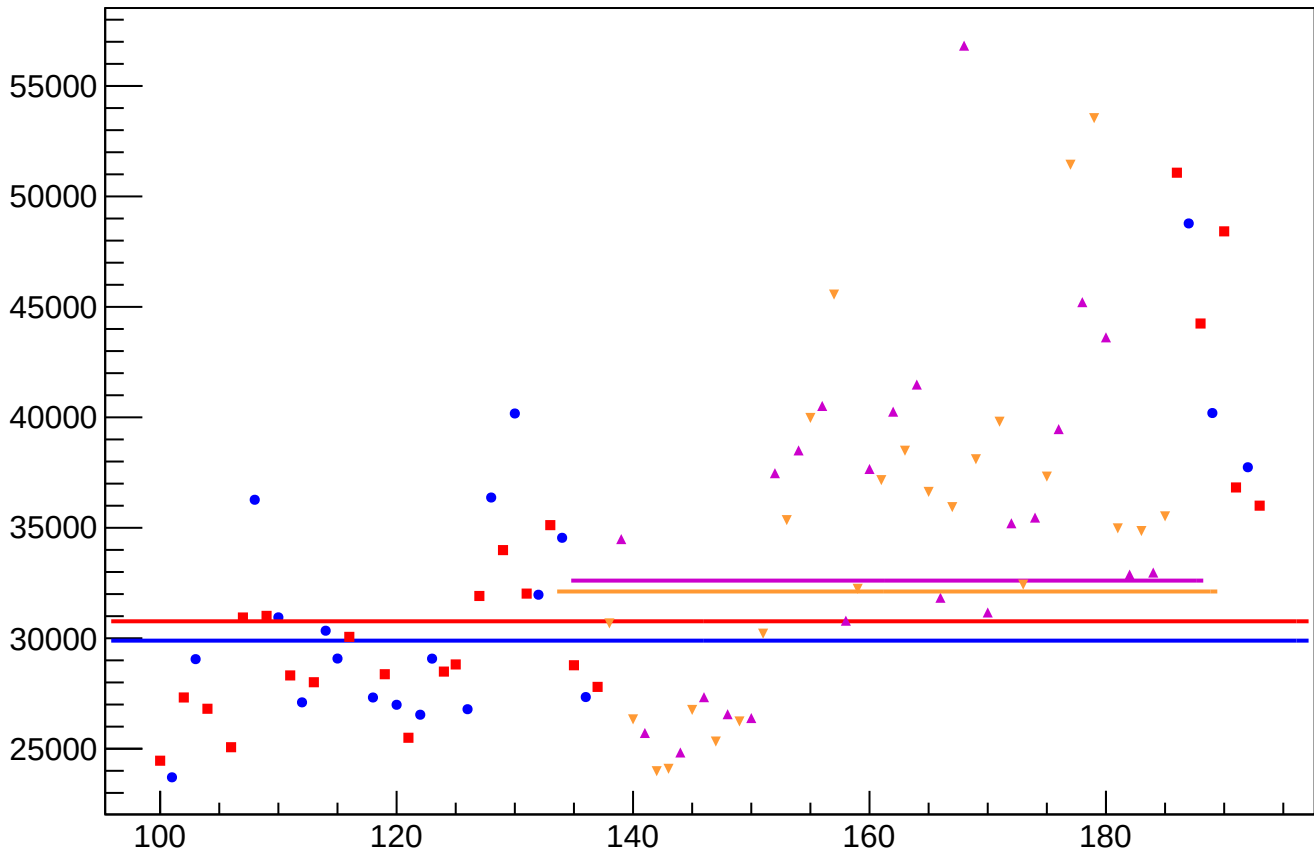
Right: -12.607 $\pm$ 7.294 χ^2/NDF : 45.9/43

In: -2.785 $\pm$ 6.391 χ^2/NDF : 33.0/42

Out: -5.606 $\pm$ 6.110 χ^2/NDF : 60.1/48

All: -4.259 $\pm$ 4.416 χ^2/NDF : 93.2/91

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29892.591+/-7.490

χ^2/NDF : 462029.5/19

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 30768.196+/-7.113

χ^2/NDF : 589521.5/23

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

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

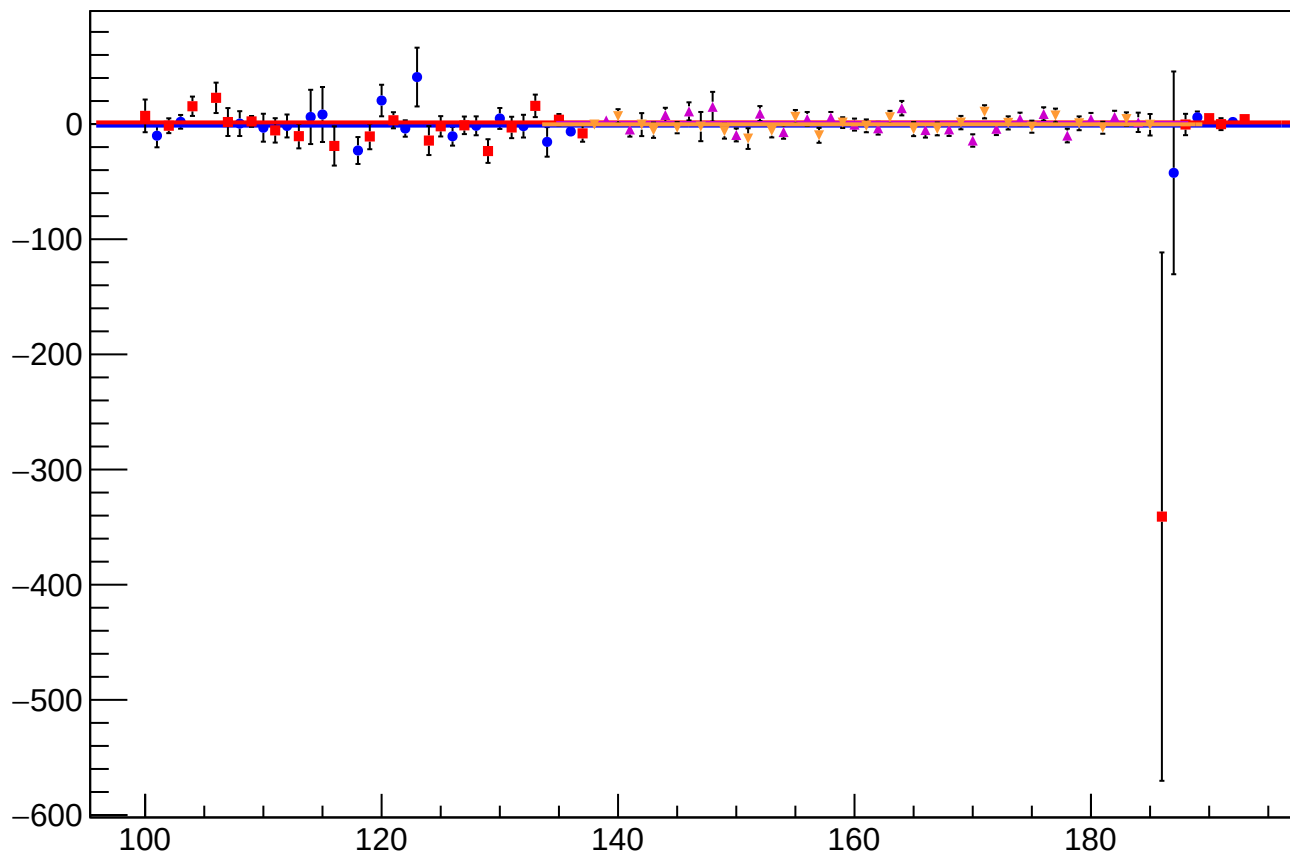
Right: 30353.004+/-5.158 χ^2/NDF : 1058736.7/43

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

Out: 31619.554+/-4.320 χ^2/NDF : 2148961.5/48

All: 31620.151+/-3.123 χ^2/NDF : 4093177.1/9

diff_bpm12Y_mean vs Slug, Sign Corrected



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

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

Right Out: 1.420 ± 1.452 χ^2/NDF : 26.1/23

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

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

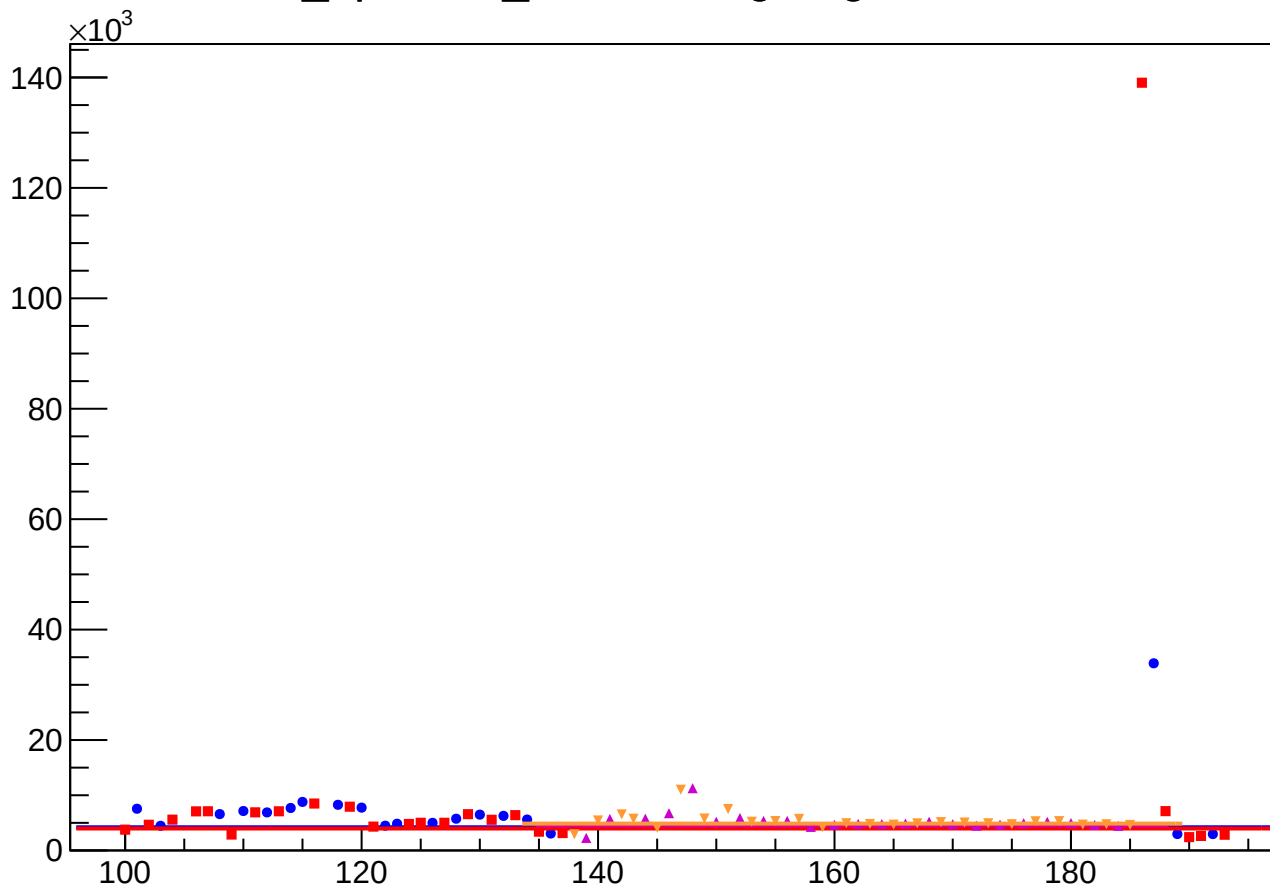
Right: 0.172 ± 1.076 χ^2/NDF : 46.4/43

In: 0.149 ± 0.936 χ^2/NDF : 56.2/42

Out: 0.406 ± 0.912 χ^2/NDF : 44.9/48

All: 0.281 ± 0.653 χ^2/NDF : 101.1/91

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4200.170 ± 1.134 $\chi^2/\text{NDF}: 2298699.8/19$

Left Out: 4866.528 ± 0.829 $\chi^2/\text{NDF}: 1511486.2/24$

Right Out: 3974.115 ± 1.027 $\chi^2/\text{NDF}: 3178091.8/23$

Left In: 4582.193 ± 0.816 $\chi^2/\text{NDF}: 2478681.0/22$

Left: 4722.017 ± 0.582 $\chi^2/\text{NDF}: 4049906.1/47$

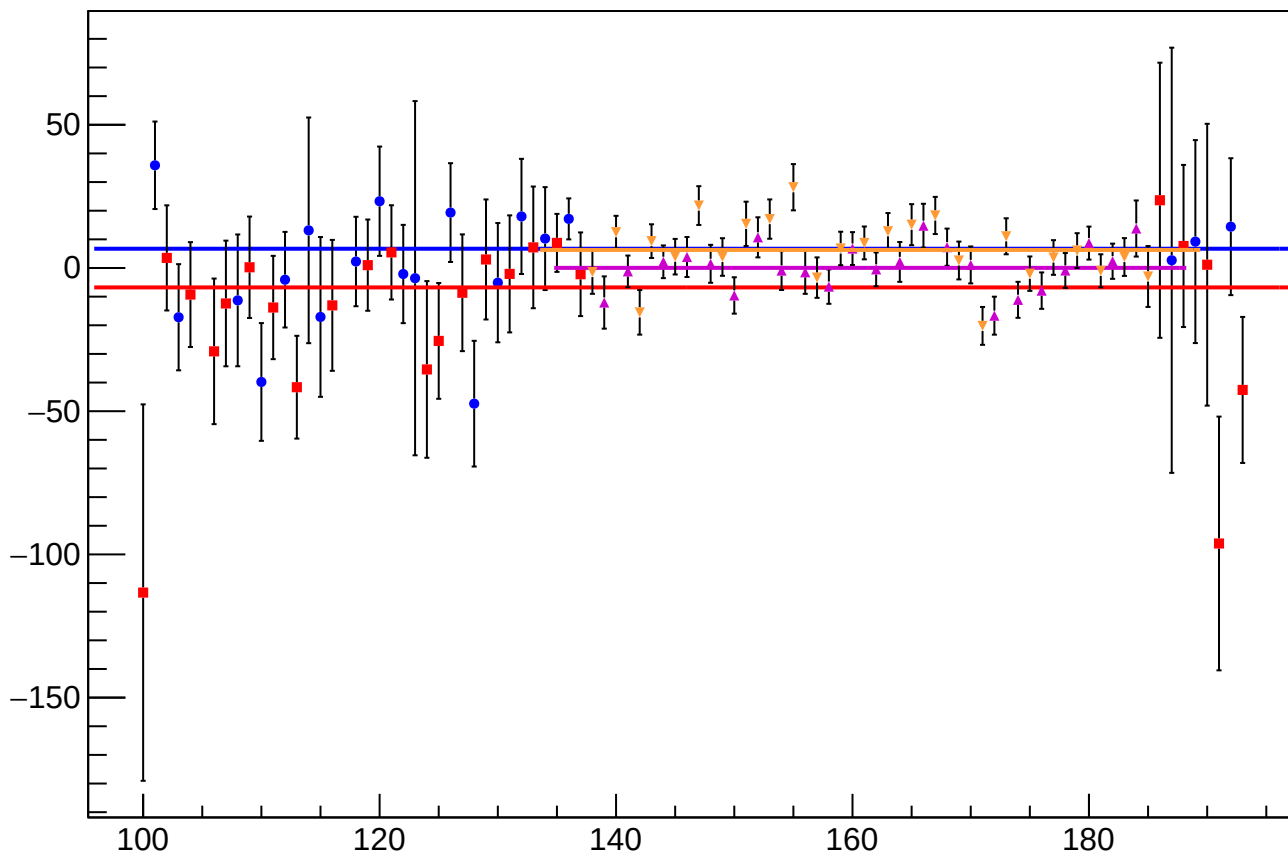
Right: 4075.956 ± 0.761 $\chi^2/\text{NDF}: 5498636.9/43$

In: 4451.873 ± 0.662 $\chi^2/\text{NDF}: 4852188.7/42$

Out: 4514.098 ± 0.645 $\chi^2/\text{NDF}: 5146840.7/48$

All: 4483.797 ± 0.462 $\chi^2/\text{NDF}: 10003559.8/95$

diff_bpm16X_mean vs Slug, Sign Corrected



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

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

Right Out: -6.782 ± 4.079 $\chi^2/\text{NDF}: 20.4/23$

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

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

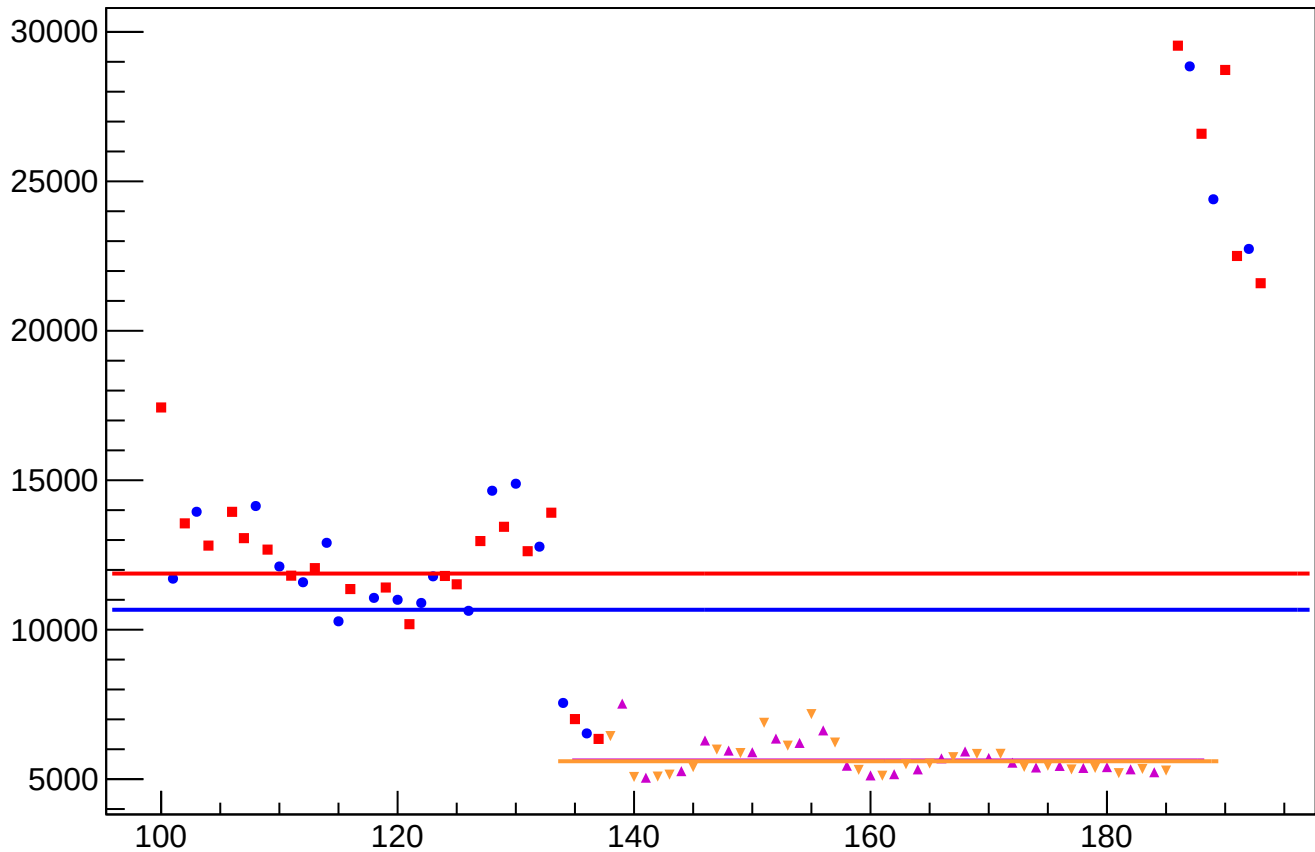
Right: 0.132 ± 2.850 $\chi^2/\text{NDF}: 48.8/43$

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

Out: 5.074 ± 1.249 $\chi^2/\text{NDF}: 86.4/48$

All: 2.968 ± 0.896 $\chi^2/\text{NDF}: 147.6/91$

diff_bpm16X_rms vs Slug, Sign Corrected



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

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

Right Out: 11877.987 $\pm$ 2.884 χ^2 /NDF: 2322163.5/23

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

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

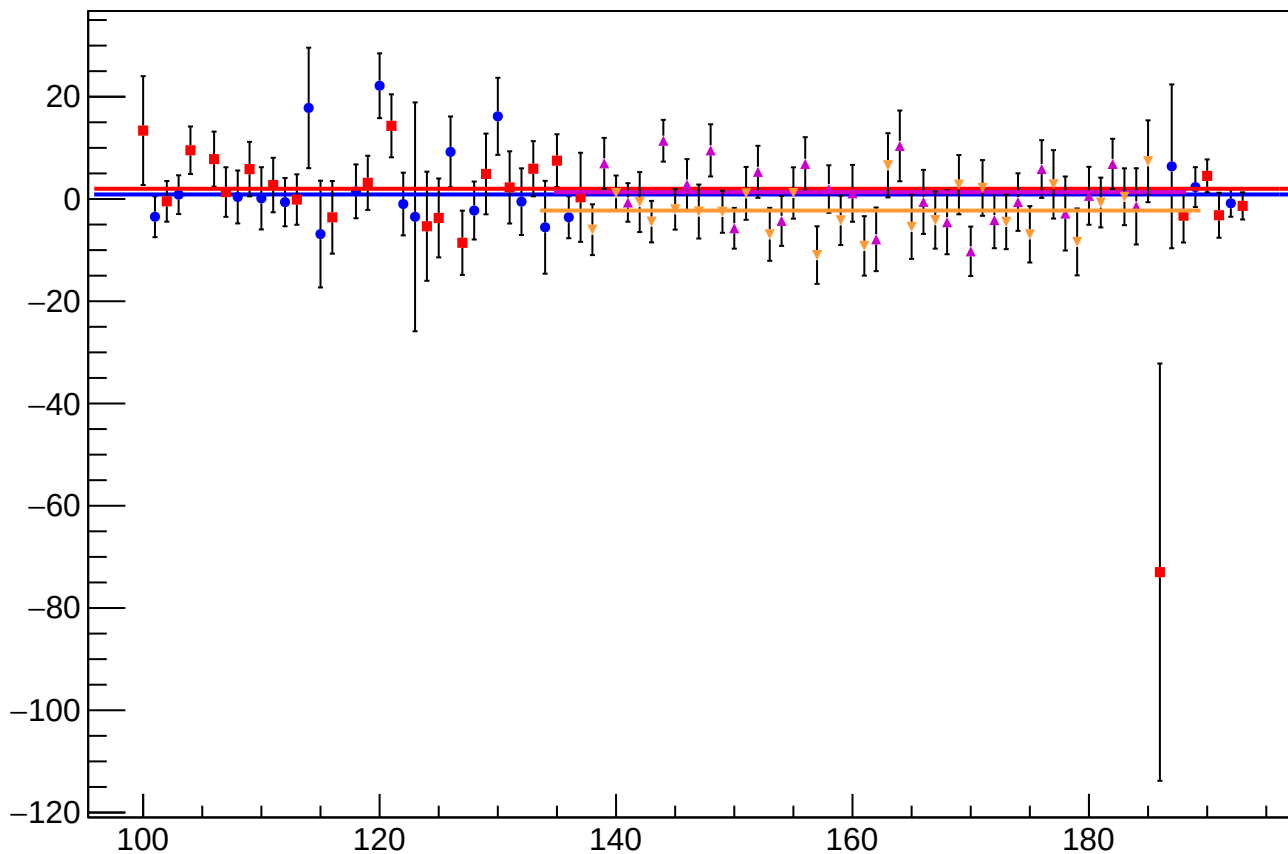
Right: 11257.928 $\pm$ 2.015 χ^2 /NDF: 4384295.3/43

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

Out: 6188.035 $\pm$ 0.883 χ^2 /NDF: 6900776.2/48

All: 6169.544 $\pm$ 0.633 χ^2 /NDF: 12016636.2/95

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.885 ± 1.174 χ^2/NDF : 23.6/19

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

Right Out: 2.000 ± 1.061 χ^2/NDF : 24.4/23

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

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

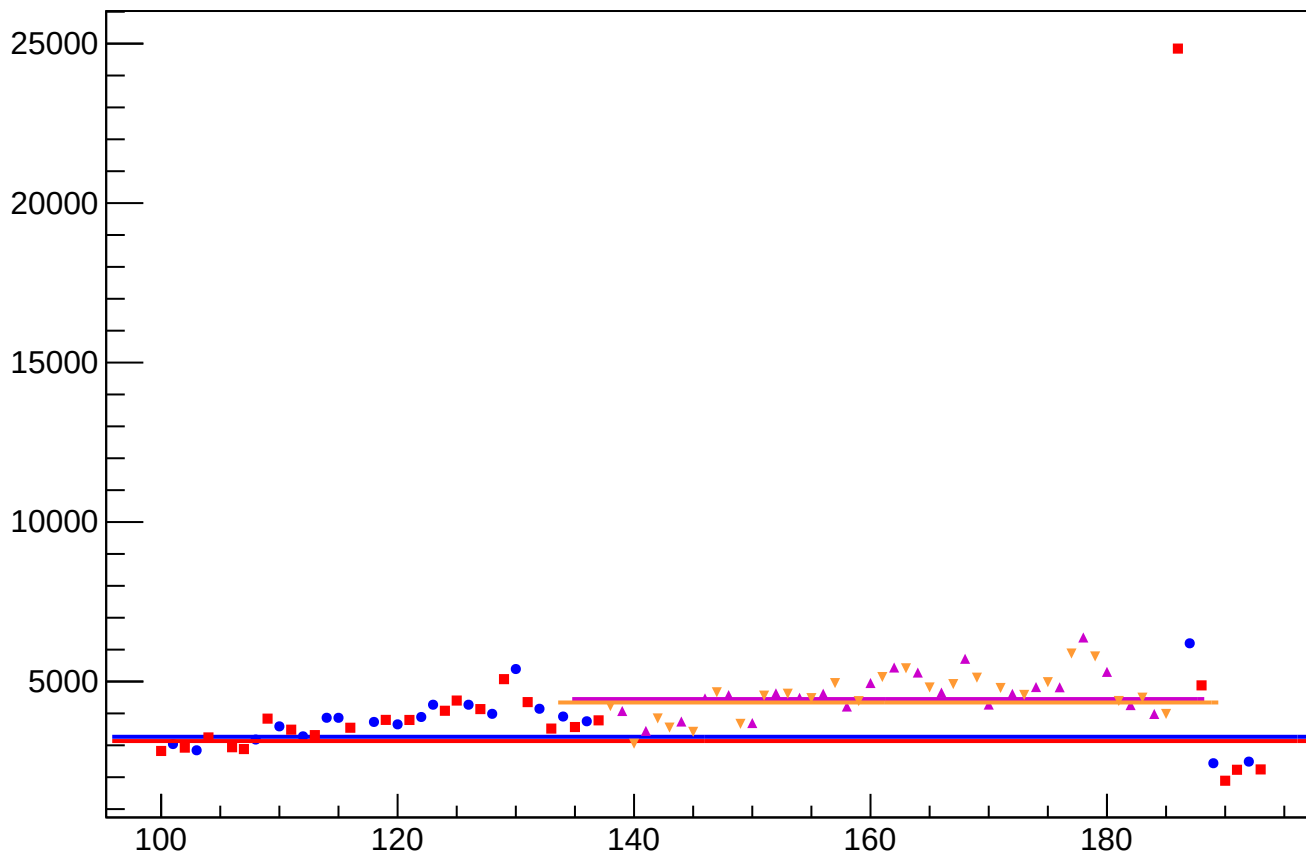
Right: 1.499 ± 0.787 χ^2/NDF : 48.5/43

In: 1.125 ± 0.796 χ^2/NDF : 54.3/42

Out: -0.195 ± 0.739 χ^2/NDF : 48.2/48

All: 0.417 ± 0.542 χ^2/NDF : 104.0/91

diff_bpm16Y_rms vs Slug, Sign Corrected



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

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

Right Out: 3133.232+/-0.751 χ^2 /NDF: 1855370.1/23

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

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

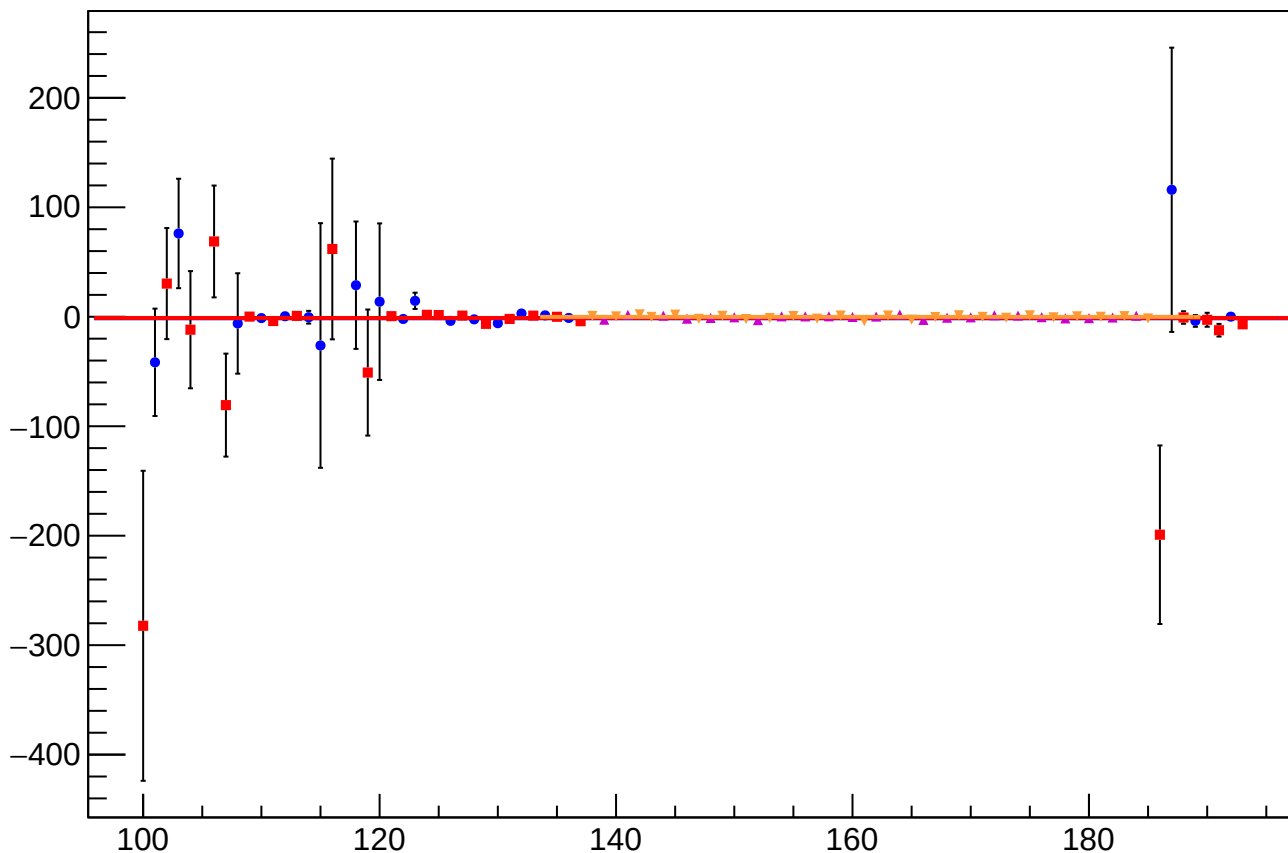
Right: 3193.607+/-0.557 χ^2 /NDF: 2606005.9/43

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

Out: 3756.037+/-0.523 χ^2 /NDF: 4185449.6/48

All: 3825.938+/-0.383 χ^2 /NDF: 6750653.2/91

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.368 ± 0.725 $\chi^2/\text{NDF}: 17.9/19$

Left Out: -0.092 ± 0.249 $\chi^2/\text{NDF}: 34.4/24$

Right Out: -1.087 ± 0.685 $\chi^2/\text{NDF}: 34.1/23$

Left In: -0.259 ± 0.257 $\chi^2/\text{NDF}: 27.2/22$

Left: -0.173 ± 0.179 $\chi^2/\text{NDF}: 61.9/47$

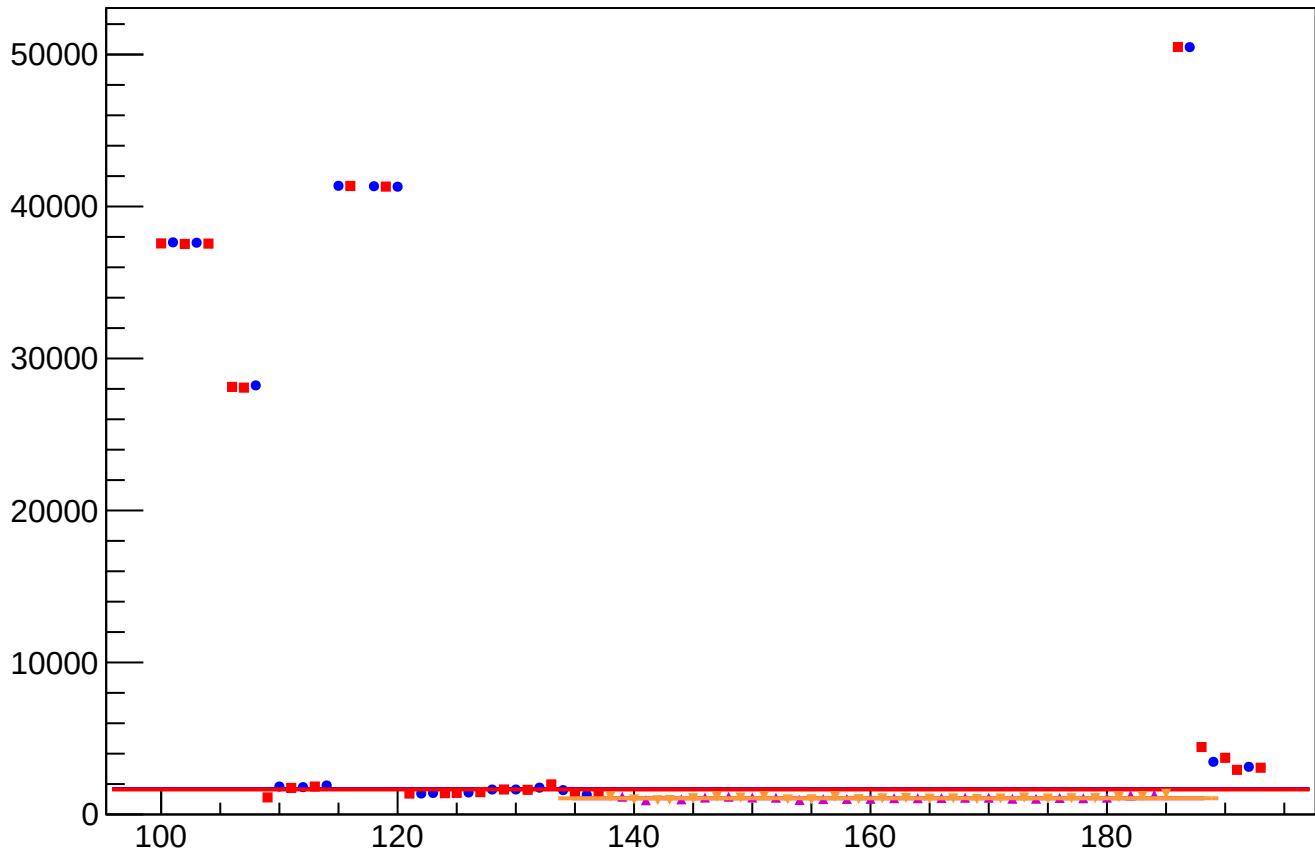
Right: -1.219 ± 0.498 $\chi^2/\text{NDF}: 52.1/43$

In: -0.383 ± 0.242 $\chi^2/\text{NDF}: 47.2/42$

Out: -0.208 ± 0.234 $\chi^2/\text{NDF}: 70.4/48$

All: -0.292 ± 0.168 $\chi^2/\text{NDF}: 117.9/91$

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1672.673 $\pm$ 0.513 χ^2 /NDF: 5694833.0/19

Left Out: 1064.701 $\pm$ 0.176 χ^2 /NDF: 186511.5/24

Right Out: 1644.531 $\pm$ 0.485 χ^2 /NDF: 6798994.1/23

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

Left: 1065.454 $\pm$ 0.126 χ^2 /NDF: 350781.3/47

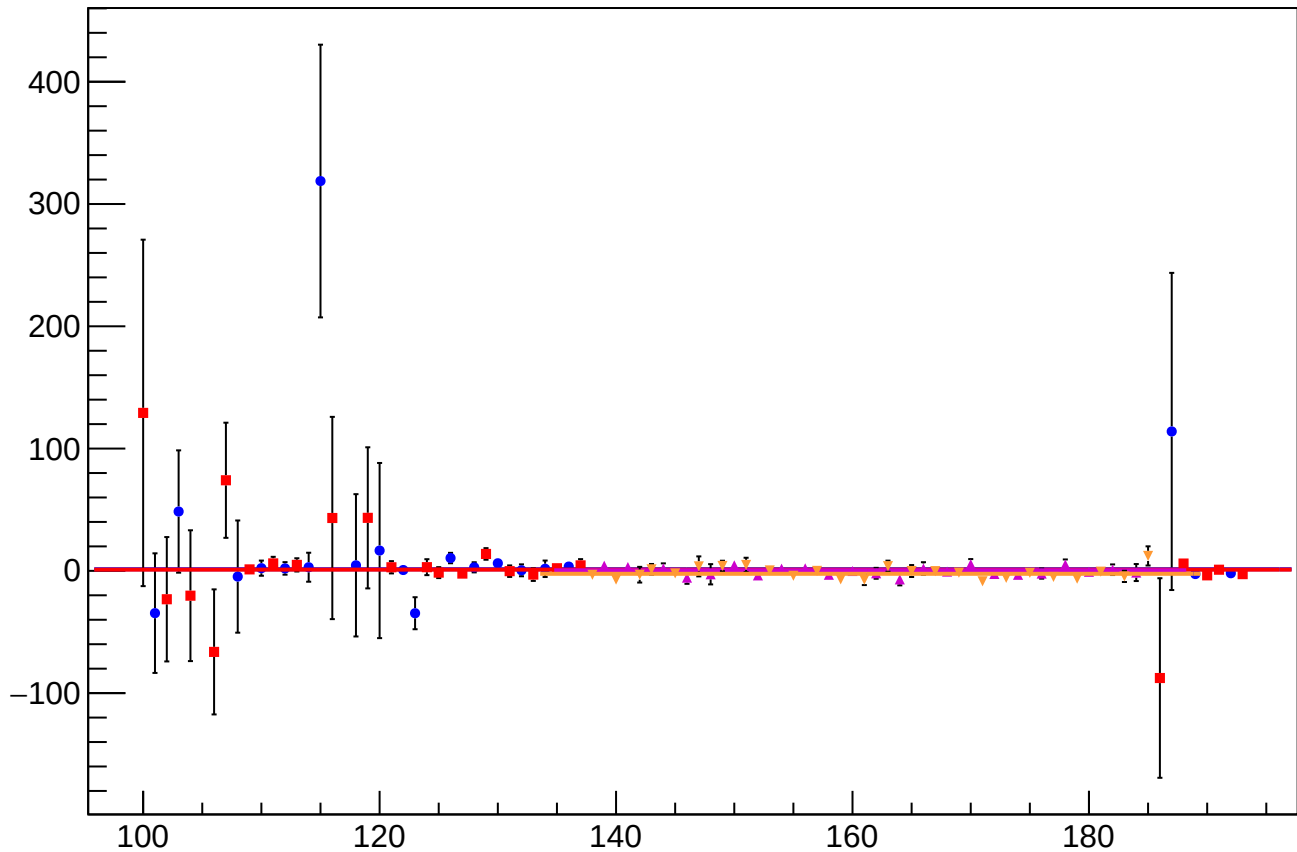
Right: 1657.810 $\pm$ 0.352 χ^2 /NDF: 12495417.6/43

In: 1133.895 $\pm$ 0.171 χ^2 /NDF: 7101467.9/42

Out: 1132.310 $\pm$ 0.166 χ^2 /NDF: 8249612.2/48

All: 1133.076 $\pm$ 0.119 χ^2 /NDF: 15351124.4/95

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 1.305 ± 1.064 $\chi^2/\text{NDF}: 28.9/19$

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

Right Out: 0.996 ± 0.966 $\chi^2/\text{NDF}: 24.8/23$

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

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

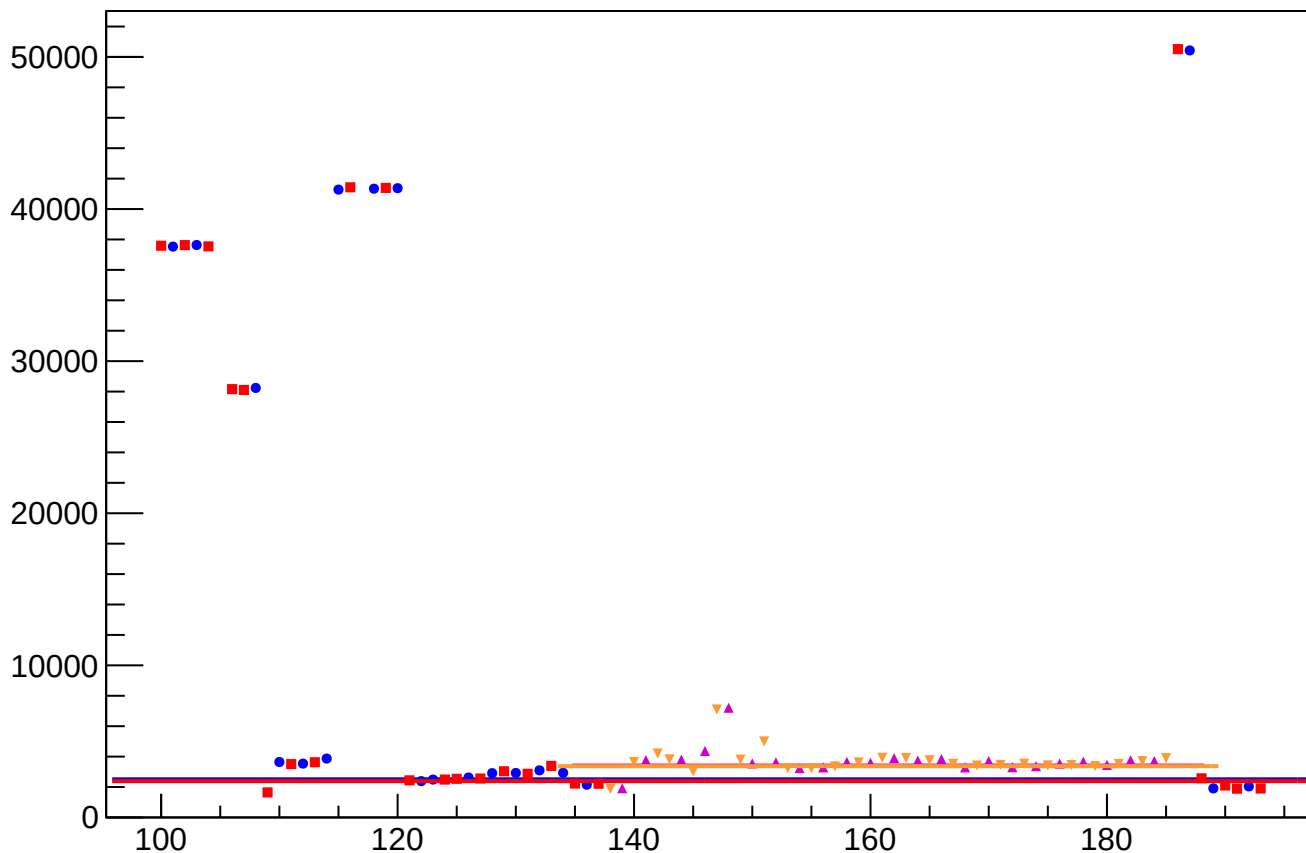
Right: 1.136 ± 0.715 $\chi^2/\text{NDF}: 53.8/43$

In: 0.791 ± 0.661 $\chi^2/\text{NDF}: 44.8/42$

Out: -1.010 ± 0.621 $\chi^2/\text{NDF}: 53.3/48$

All: -0.165 ± 0.452 $\chi^2/\text{NDF}: 102.1/91$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

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

Right Out: 2389.204+/-0.683 χ^2/NDF : 5745197.1/23

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

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

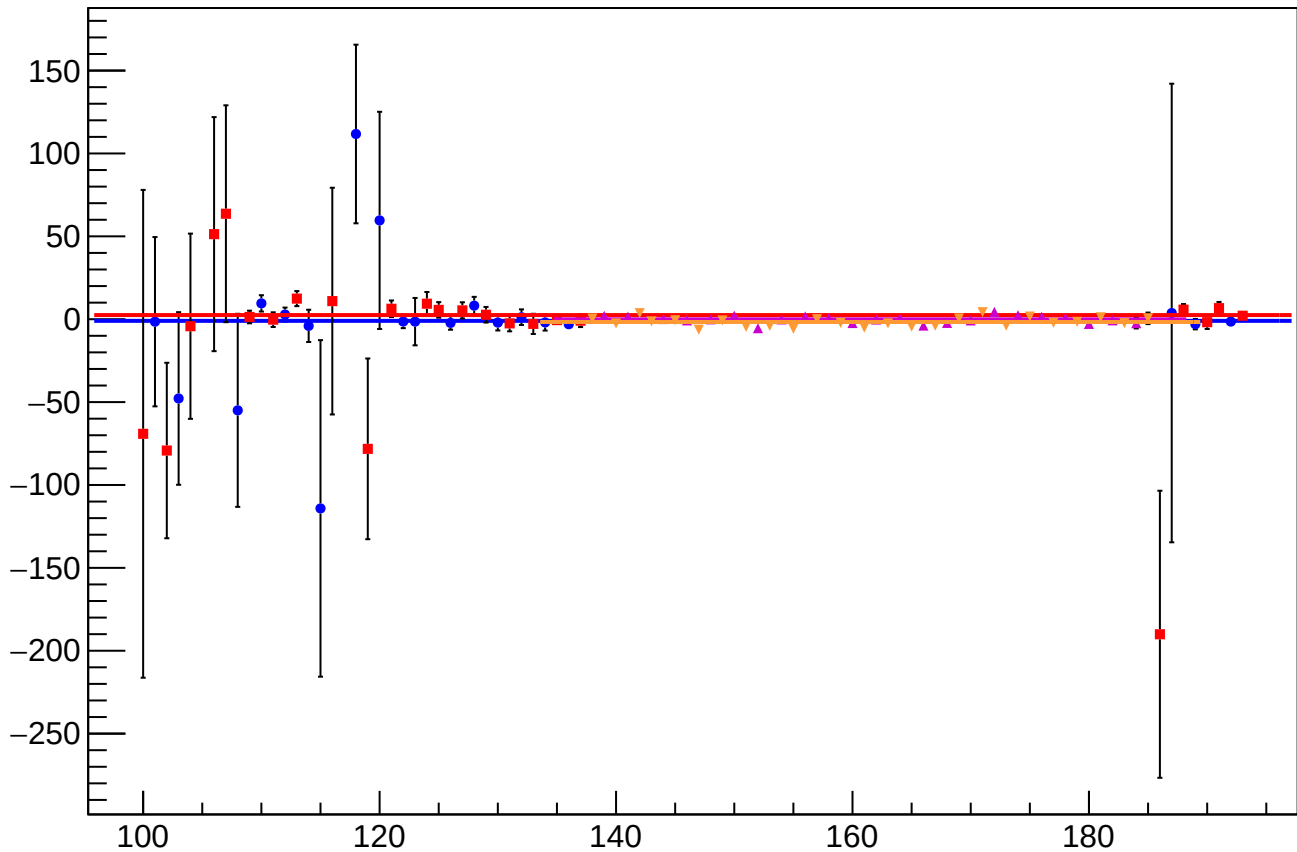
Right: 2442.976+/-0.506 χ^2/NDF : 10861428.9/43

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

Out: 2966.569+/-0.439 χ^2/NDF :8619104.8/48

All: 3011.989+/-0.320 χ^2/NDF : 16065728.7/95

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

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

Right Out: 2.495 ± 0.955 χ^2/NDF : 26.0/23

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

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

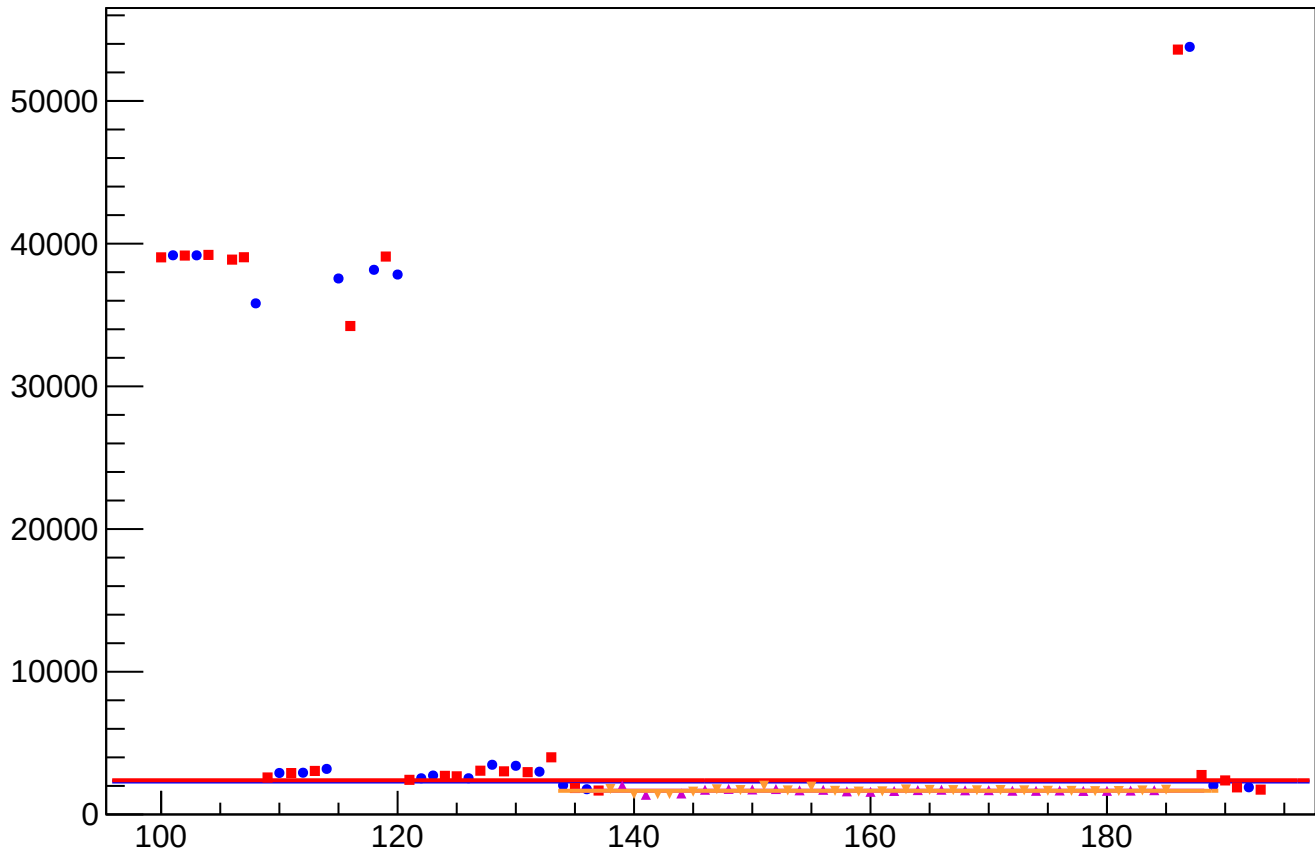
Right: 0.820 ± 0.687 χ^2/NDF : 50.9/43

In: -0.200 ± 0.372 χ^2/NDF : 47.5/42

Out: -1.081 ± 0.360 χ^2/NDF : 88.0/48

All: -0.655 ± 0.258 χ^2/NDF : 138.4/91

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2307.676+/-0.700 χ^2/NDF : 5310397.9/19

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

Right Out: 2396.181+/-0.675 χ^2/NDF : 5897873.5/23

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

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

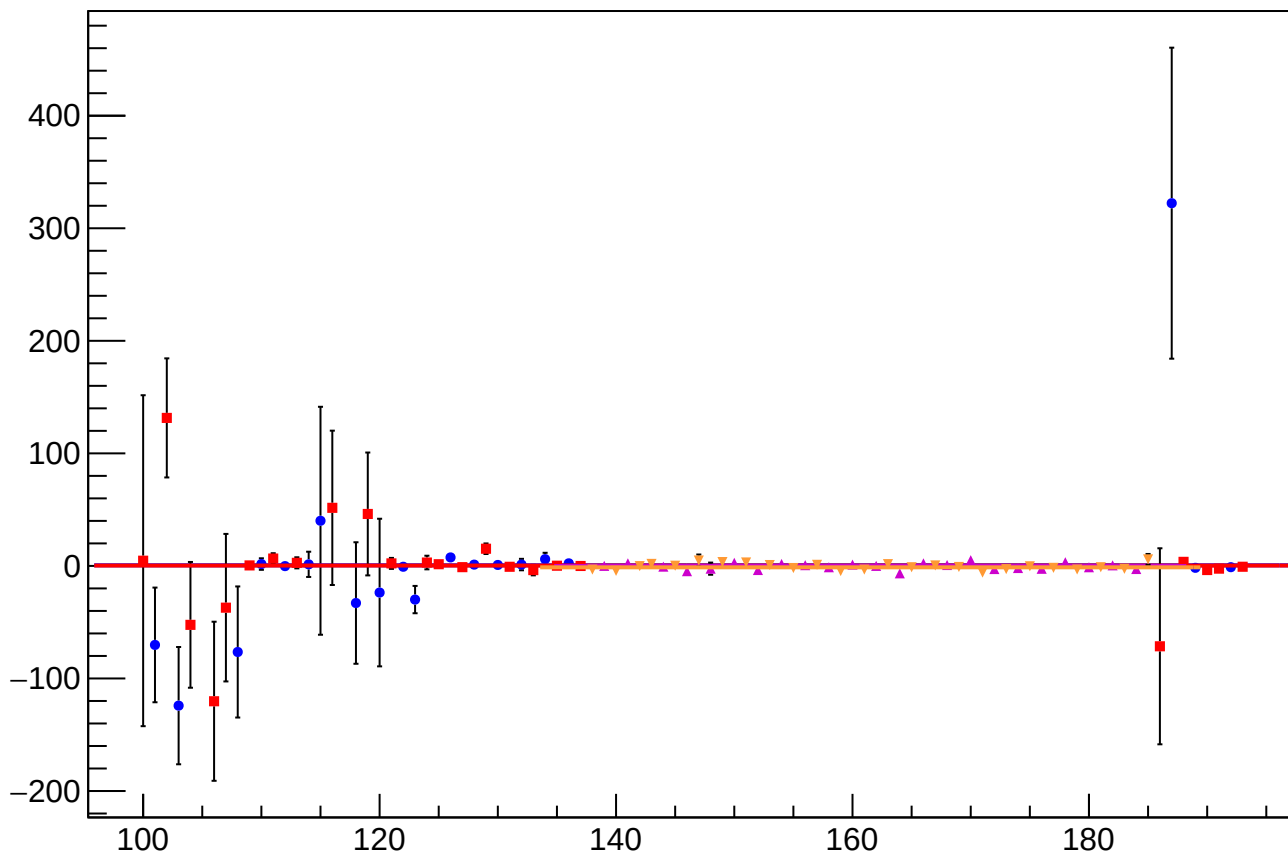
Right: 2353.529+/-0.486 χ^2/NDF : 11216556.8/43

In: 1754.454+/-0.263 χ^2/NDF : 6216709.6/42

Out: 1762.500+/-0.254 χ^2/NDF : 7148338.1/48

All: 1758.612+/-0.183 χ^2/NDF : 13365532.0/95

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

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

Right Out: 0.331 ± 0.805 $\chi^2/\text{NDF}: 30.6/23$

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

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

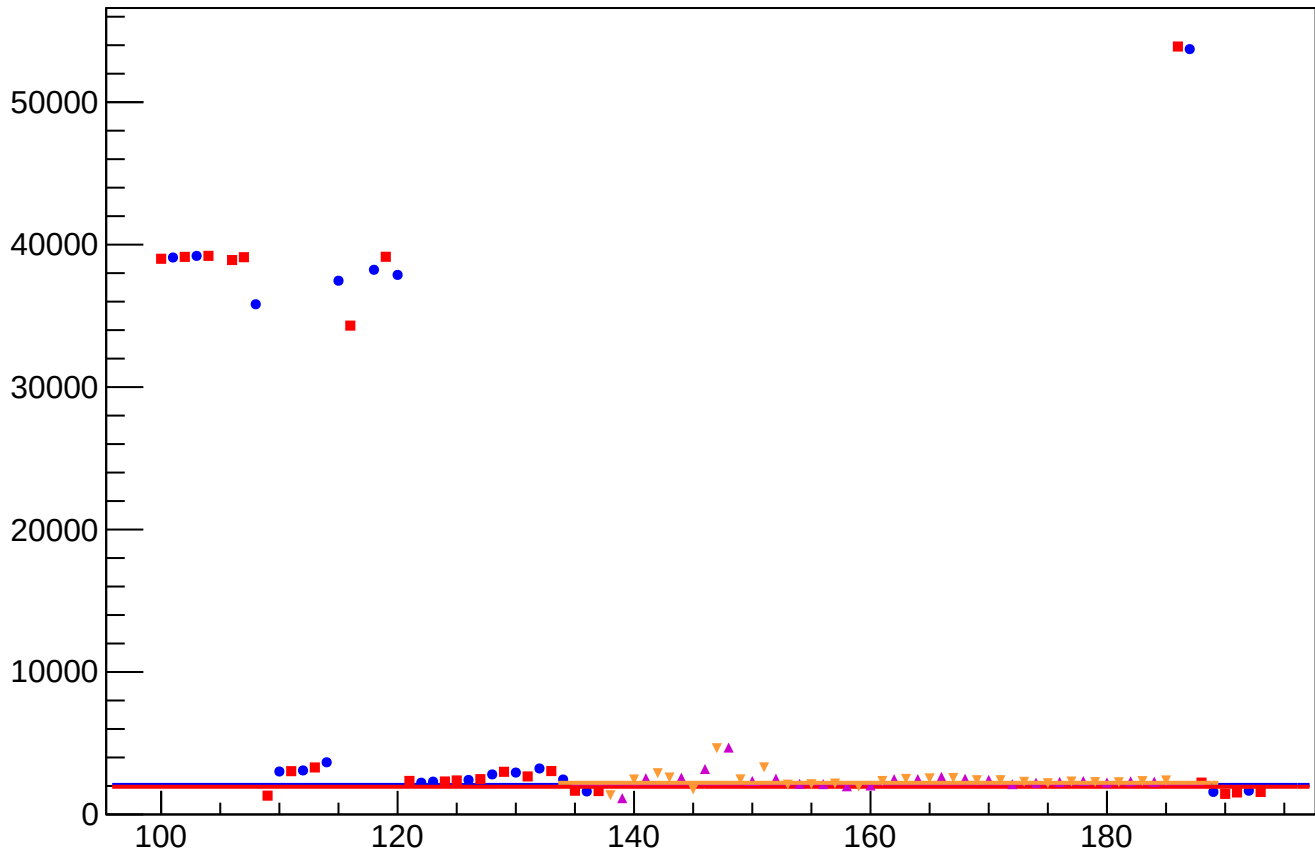
Right: 0.426 ± 0.600 $\chi^2/\text{NDF}: 59.4/43$

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

Out: -0.766 ± 0.446 $\chi^2/\text{NDF}: 55.0/48$

All: -0.363 ± 0.321 $\chi^2/\text{NDF}: 105.2/91$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2074.221+/-0.636 χ^2/NDF : 5575145.2/19

Left Out: 2222.081+/-0.378 χ^2/NDF : 1422440.9/24

Right Out: 1943.574+/-0.569 χ^2/NDF : 6307016.3/23

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

Left: 2196.064+/-0.269 χ^2/NDF : 3406878.6/47

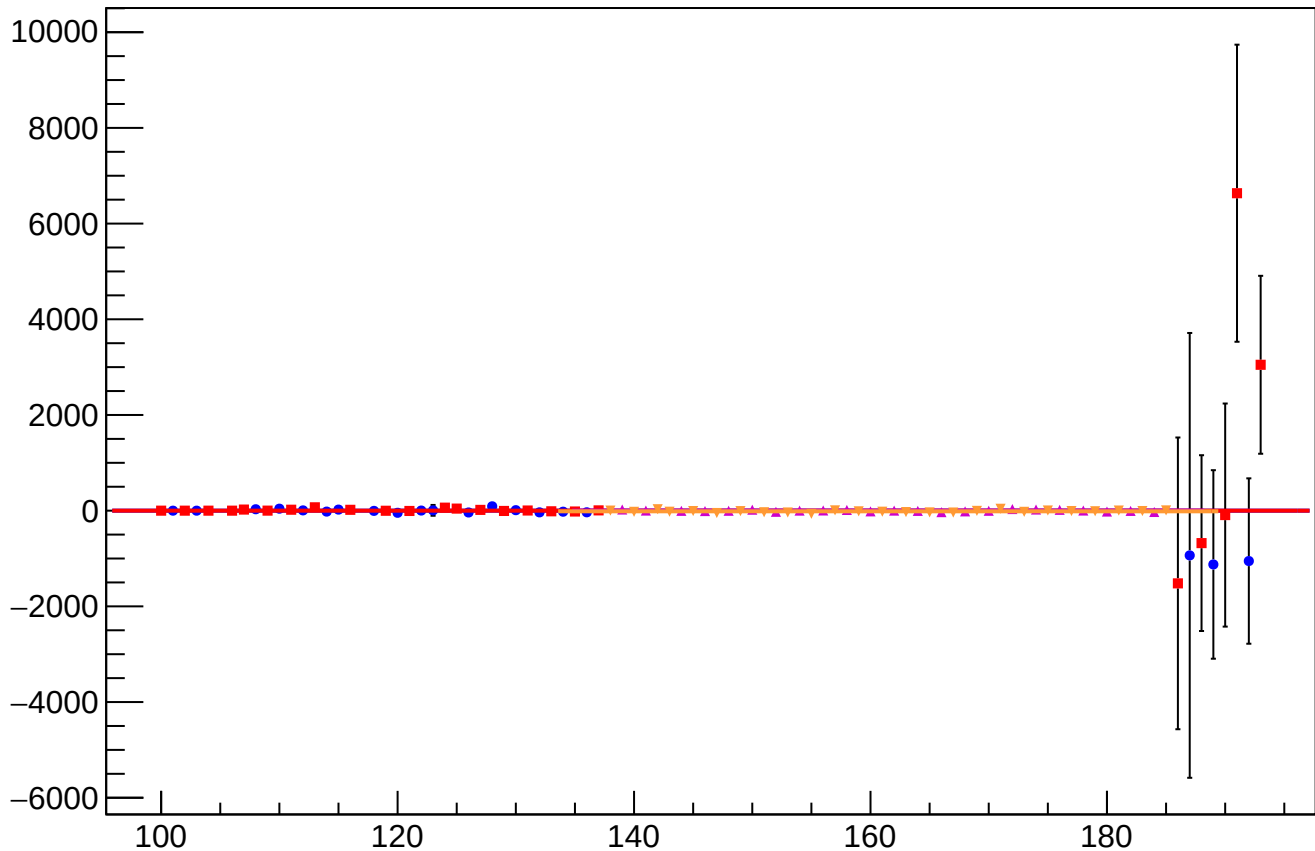
Right: 2001.598+/-0.424 χ^2/NDF : 11905582.3/43

In: 2144.159+/-0.328 χ^2/NDF : 7566453.8/42

Out: 2136.685+/-0.315 χ^2/NDF : 7895619.5/48

All: 2140.271+/-0.227 χ^2/NDF : 15462343.4/95

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 17.3/19$

Left Out: -13.484 ± 2.800 $\chi^2/\text{NDF}: 58.7/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 23.2/23$

Left In: 0.459 ± 2.917 $\chi^2/\text{NDF}: 29.0/22$

Left: -6.796 ± 2.020 $\chi^2/\text{NDF}: 99.5/47$

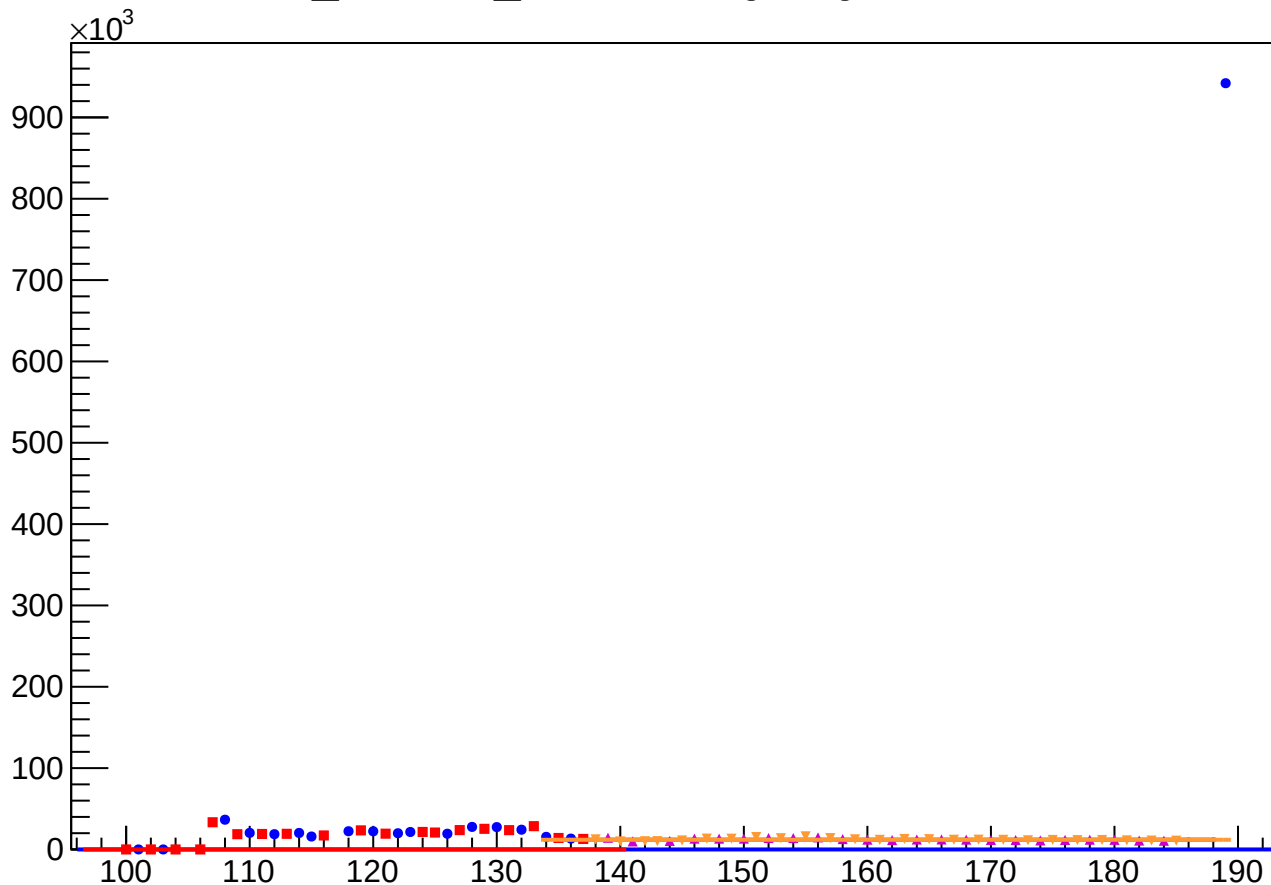
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 41.0/43$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 46.3/42$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 105.0/48$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 151.8/91$

diff_cav4bX_rms vs Slug, Sign Corrected



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

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

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

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

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

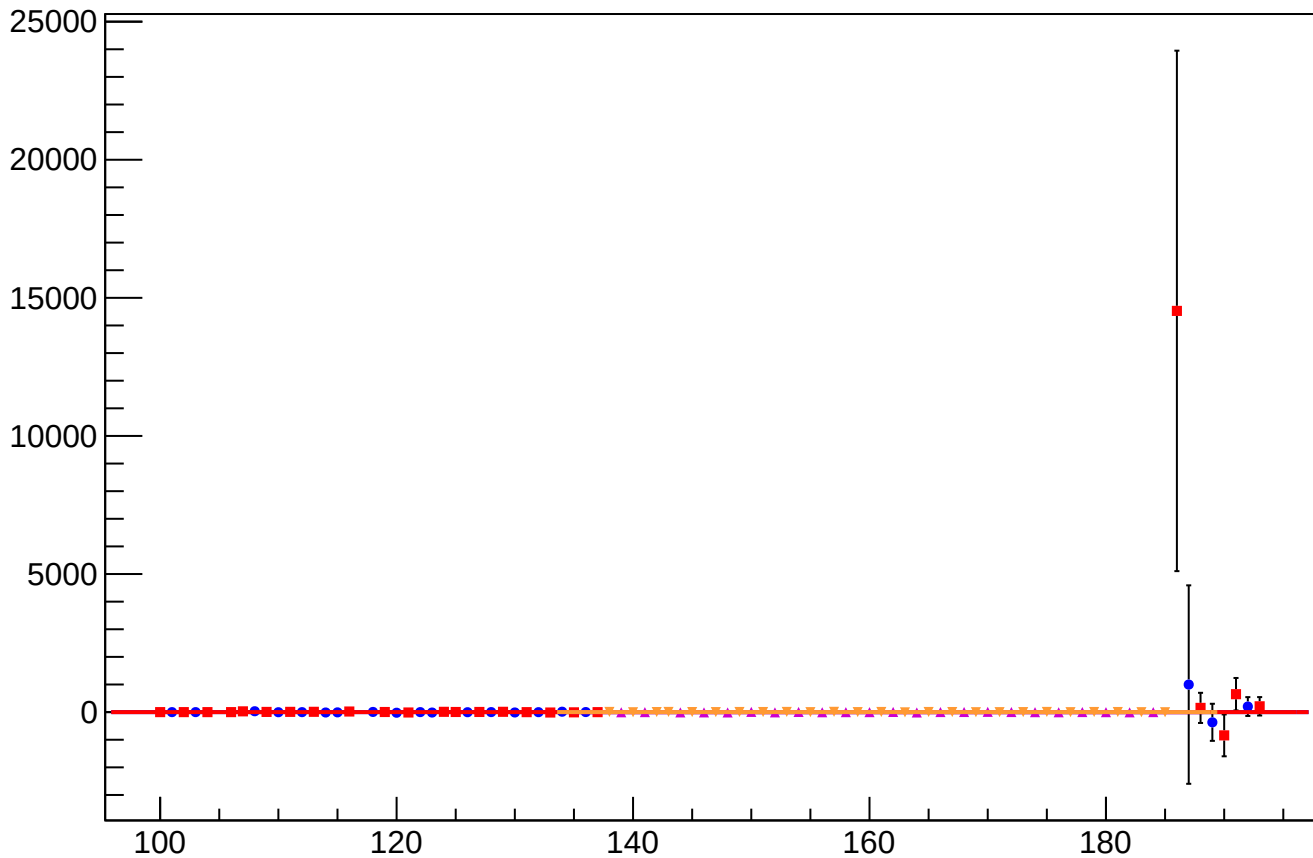
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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

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

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

diff_cav4bY_mean vs Slug, Sign Corrected



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

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

Right Out: -0.014 $\pm$ 0.009 χ^2/NDF : 24.1/23

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

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

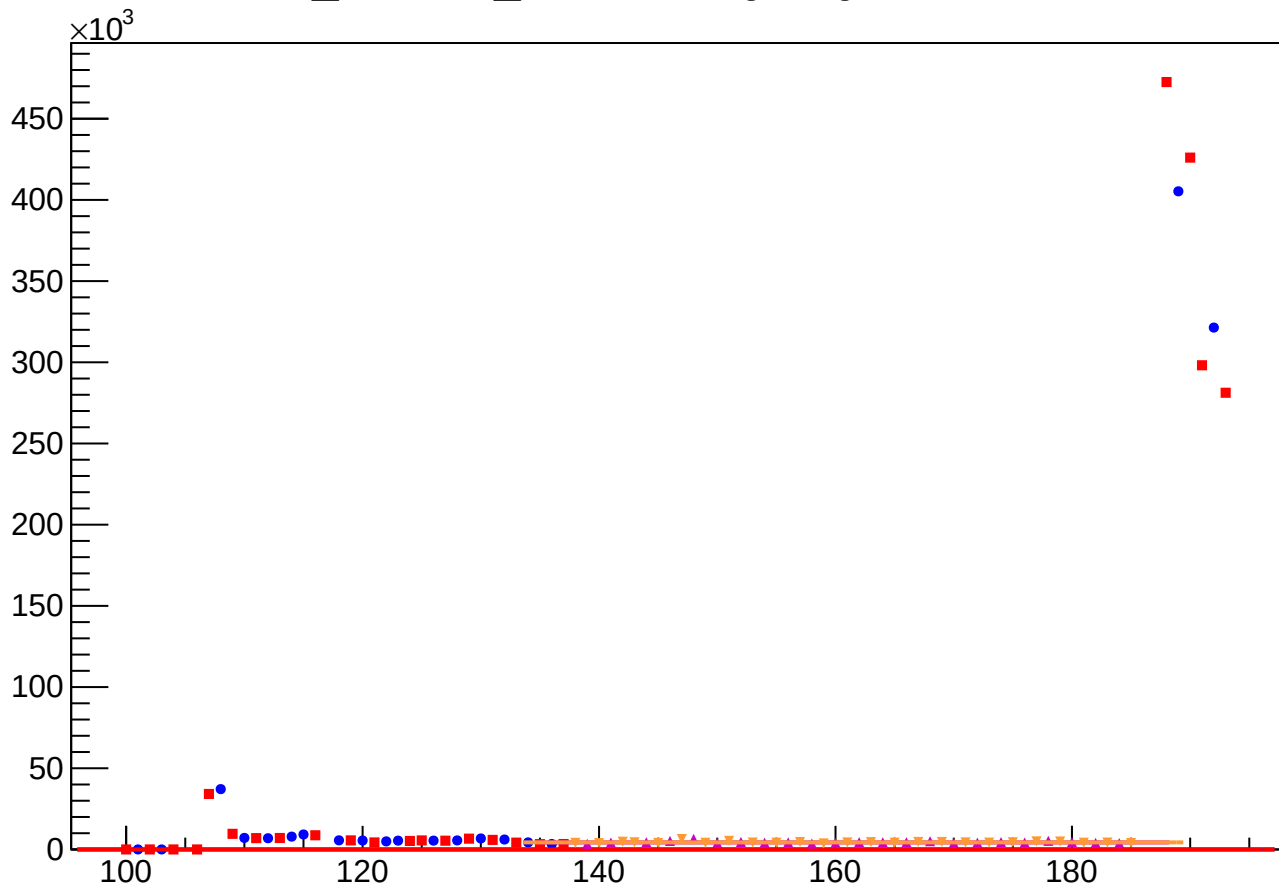
Right: -0.007 $\pm$ 0.006 χ^2/NDF : 39.1/43

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

Out: -0.014 $\pm$ 0.009 χ^2/NDF : 45.1/48

All: -0.007 $\pm$ 0.006 χ^2/NDF : 96.5/91

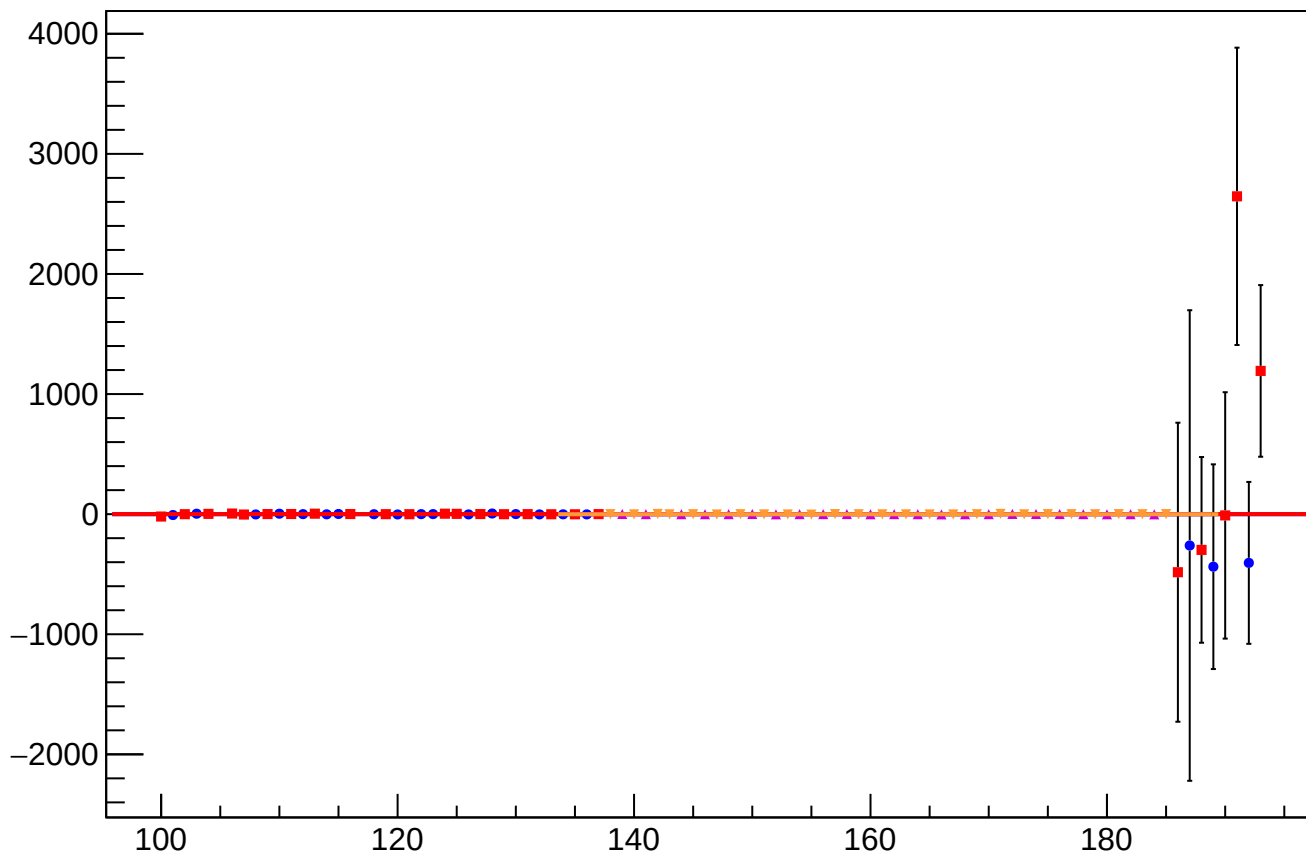
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 13550966.6/18
 Left Out: 4349.005 ± 0.723 χ^2/NDF : 383895.7/24
 Right Out: 9.854 ± 0.006 χ^2/NDF : 15157870.0/22
 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 : 28708926.2/41
 In: 10.271 ± 0.007 χ^2/NDF : 47882710.8/41
 Out: 10.165 ± 0.006 χ^2/NDF : 51587038.2/47
 All: 10.215 ± 0.004 χ^2/NDF : 99469889.3/89

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 χ^2/NDF : 23.3/19

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

Right Out: 0.639 ± 0.501 χ^2/NDF : 20.7/23

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

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

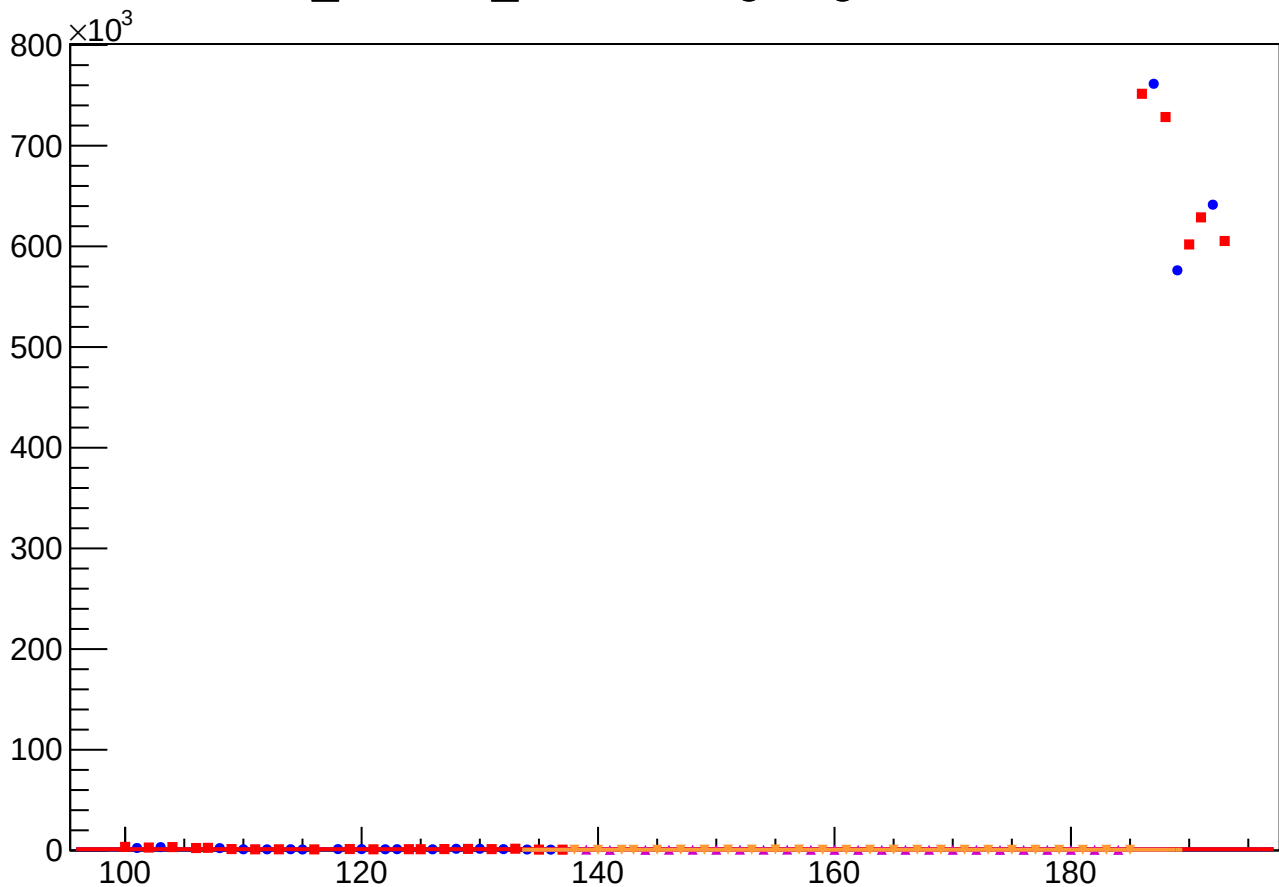
Right: -0.063 ± 0.348 χ^2/NDF : 47.8/43

In: -0.063 ± 0.161 χ^2/NDF : 54.8/42

Out: -0.637 ± 0.156 χ^2/NDF : 86.4/48

All: -0.359 ± 0.112 χ^2/NDF : 147.8/91

diff_cav4cX_rms vs Slug, Sign Corrected



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

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

Right Out: 1248.881+/-0.355 χ^2/NDF : 6745055.7/23

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

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

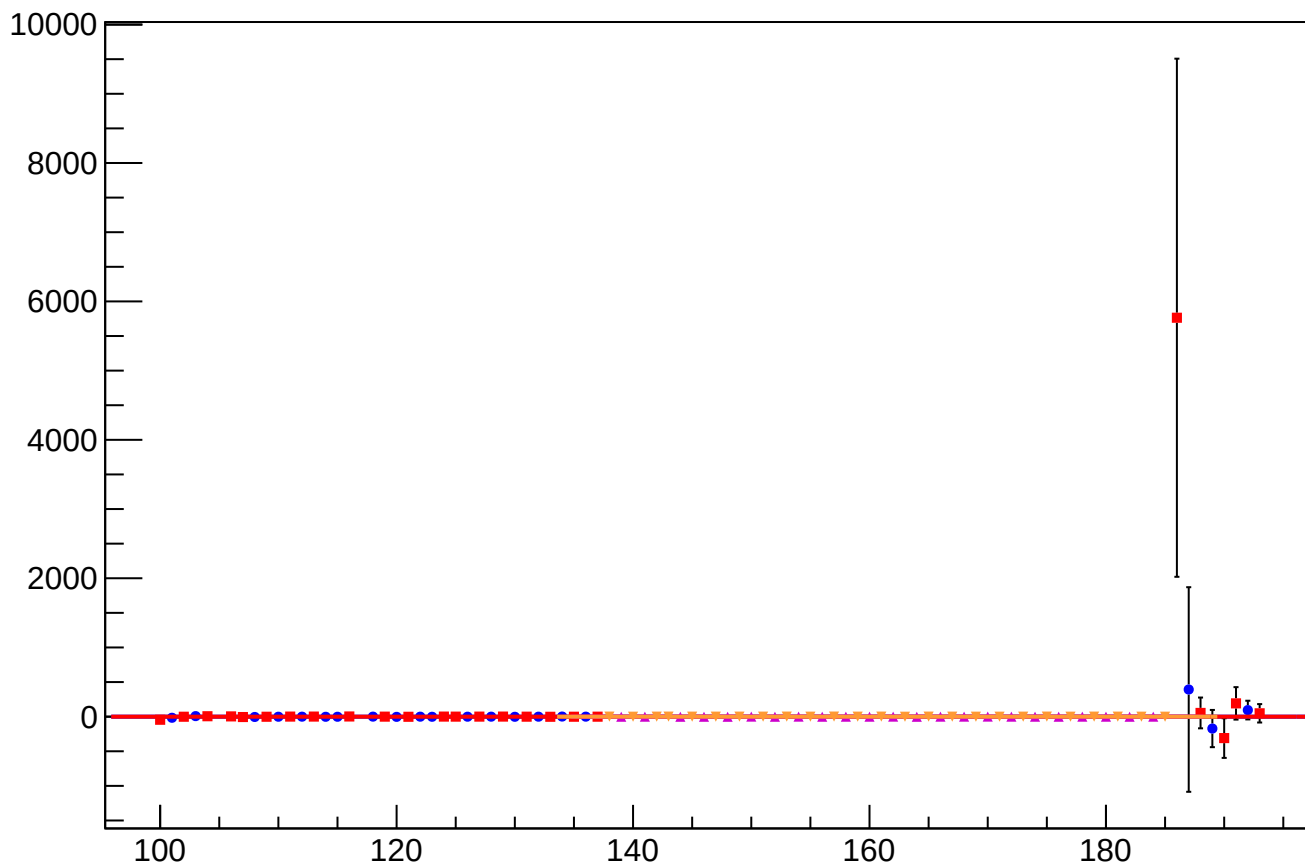
Right: 1206.768+/-0.246 χ^2/NDF : 11368643.5/43

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

Out: 754.257+/-0.111 χ^2/NDF : 9293174.7/48

All: 756.144+/-0.079 χ^2/NDF : 15838902.4/92

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.269 χ^2/NDF : 20.1/19

Left Out: 0.233 ± 0.123 χ^2/NDF : 18.0/24

Right Out: -0.280 ± 0.264 χ^2/NDF : 24.9/23

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

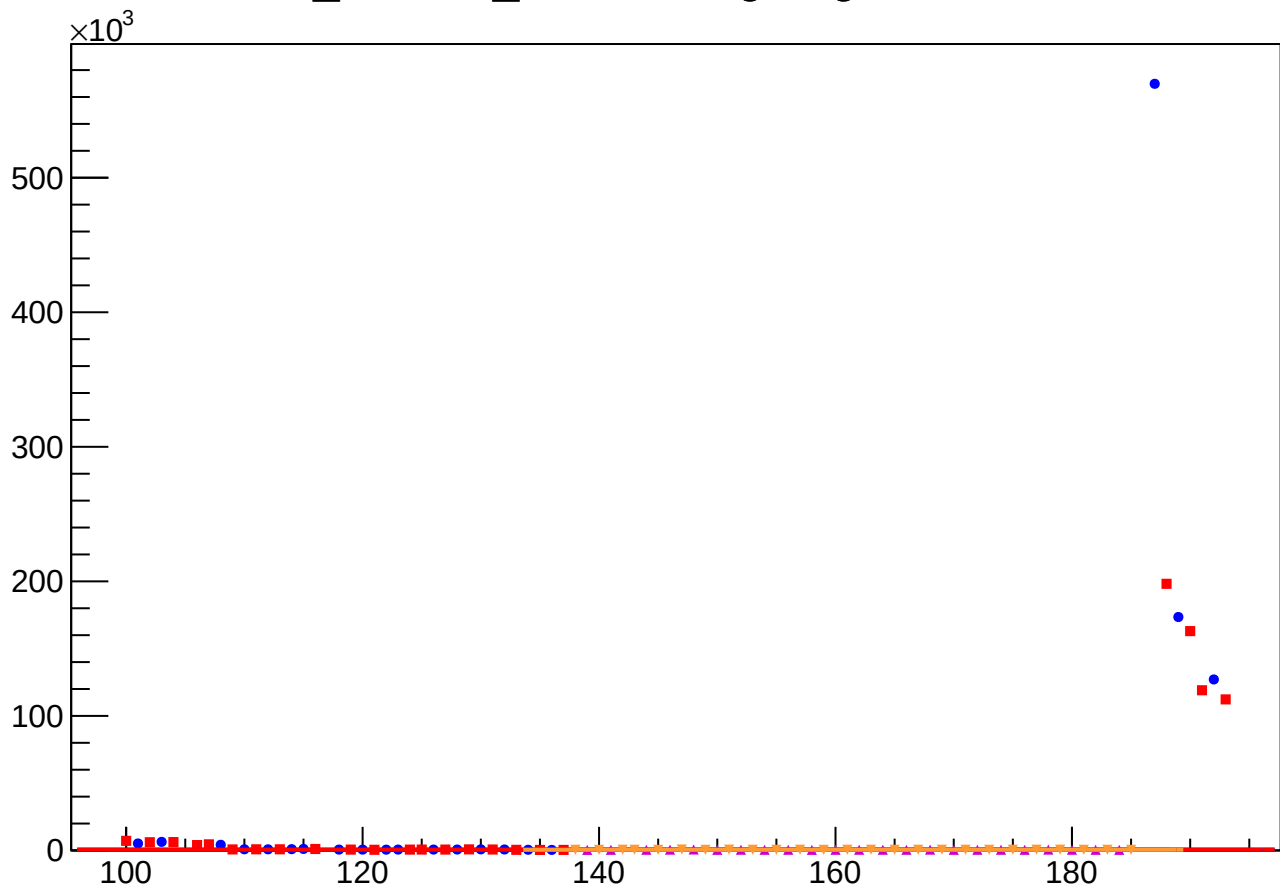
Right: -0.171 ± 0.189 χ^2/NDF : 45.4/43

In: -0.114 ± 0.114 χ^2/NDF : 55.1/42

Out: 0.142 ± 0.111 χ^2/NDF : 46.0/48

All: 0.018 ± 0.080 χ^2/NDF : 103.7/91

diff_cav4cY_rms vs Slug, Sign Corrected



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

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

Right Out: 599.829+/-0.187 χ^2/NDF : 7693449.3/22

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

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

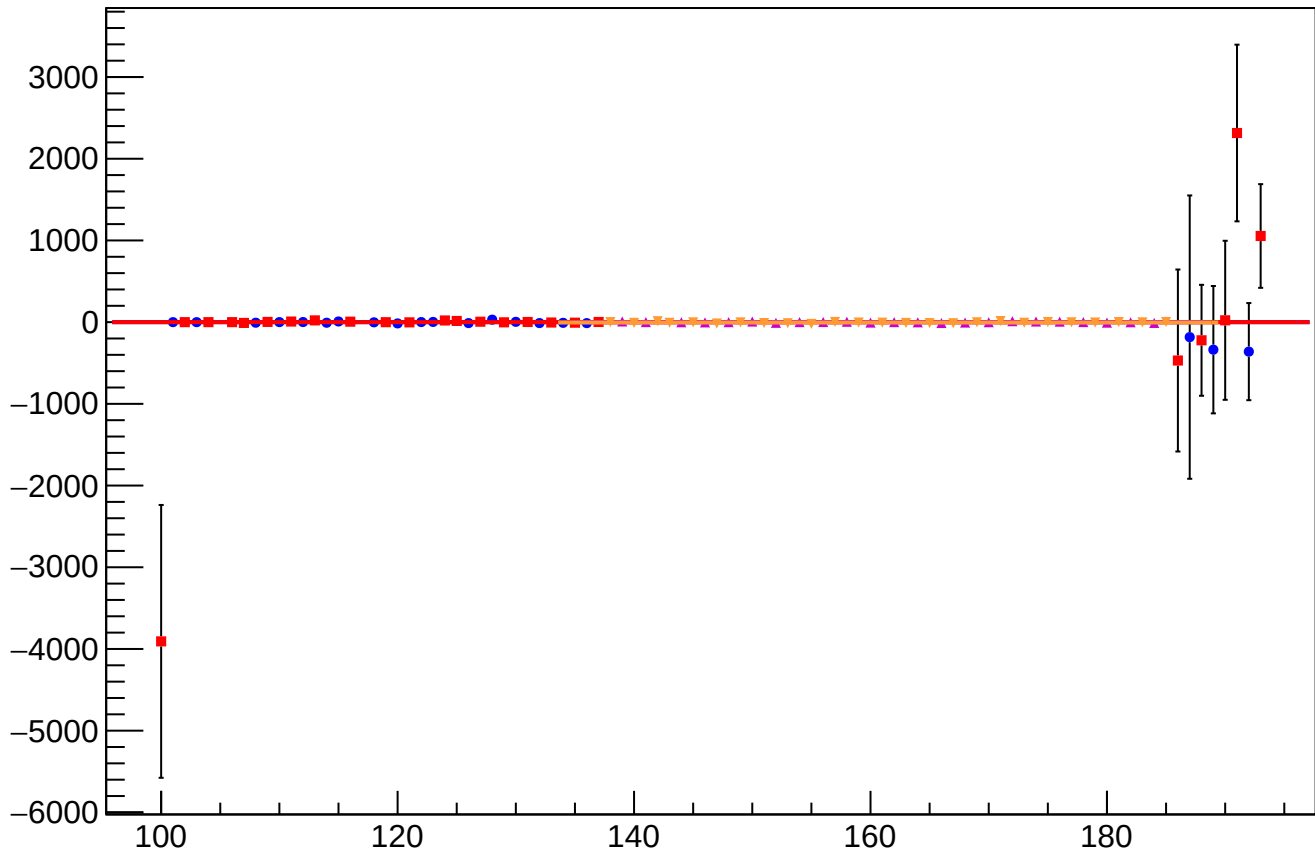
Right: 604.866+/-0.133 χ^2/NDF : 13707025.2/42

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

Out: 535.953+/-0.079 χ^2/NDF : 8165664.1/47

All: 536.371+/-0.056 χ^2/NDF : 14786540.0/90

diff_cav4dX_mean vs Slug, Sign Corrected



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

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 25.1/23

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

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

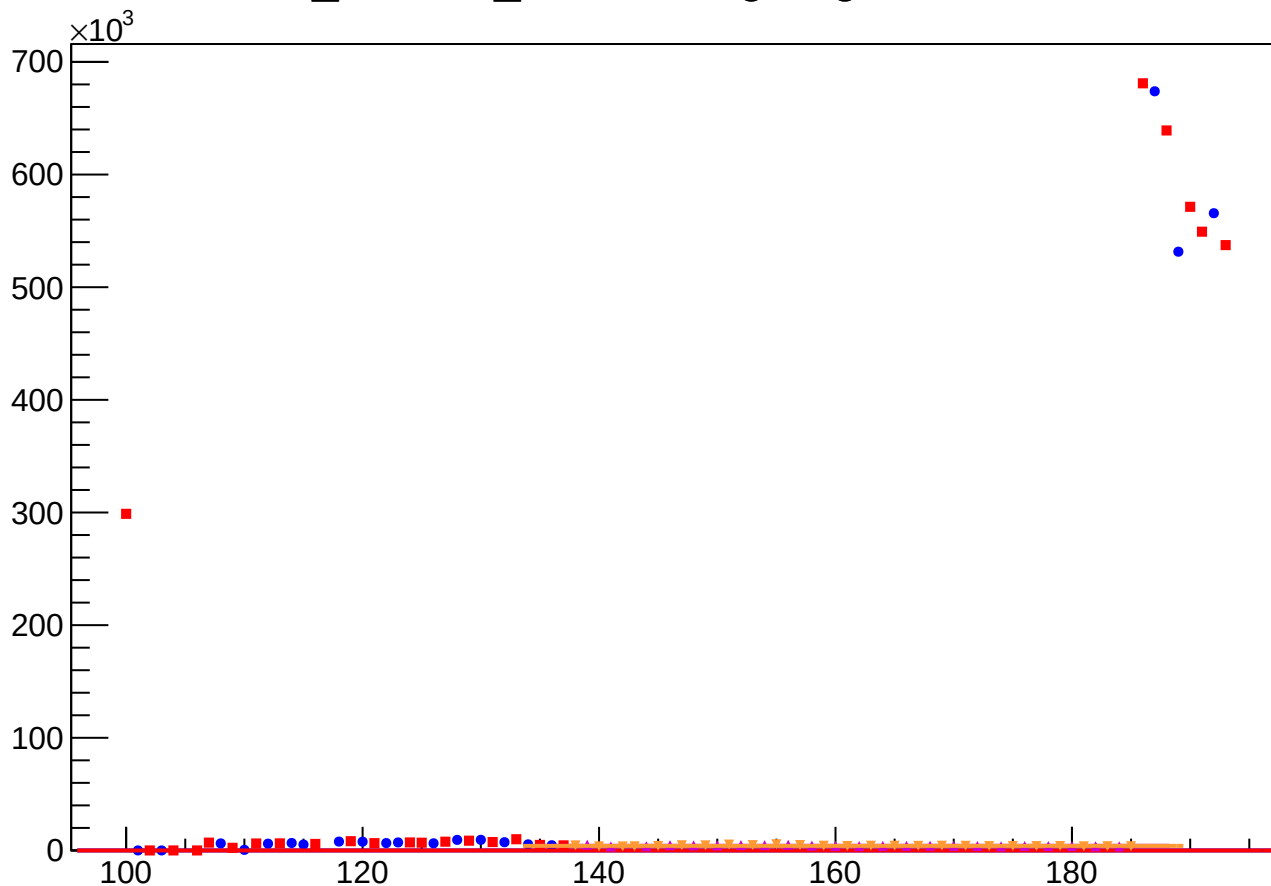
Right: 0.004 ± 0.014 χ^2/NDF : 44.5/43

In: -0.022 ± 0.021 χ^2/NDF : 46.1/42

Out: 0.025 ± 0.020 χ^2/NDF : 105.6/48

All: 0.003 ± 0.014 χ^2/NDF : 154.3/91

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.340+/-0.015 χ^2 /NDF: 13500196.5/19

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

Right Out: 17.269+/-0.014 χ^2 /NDF: 15926208.5/23

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

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

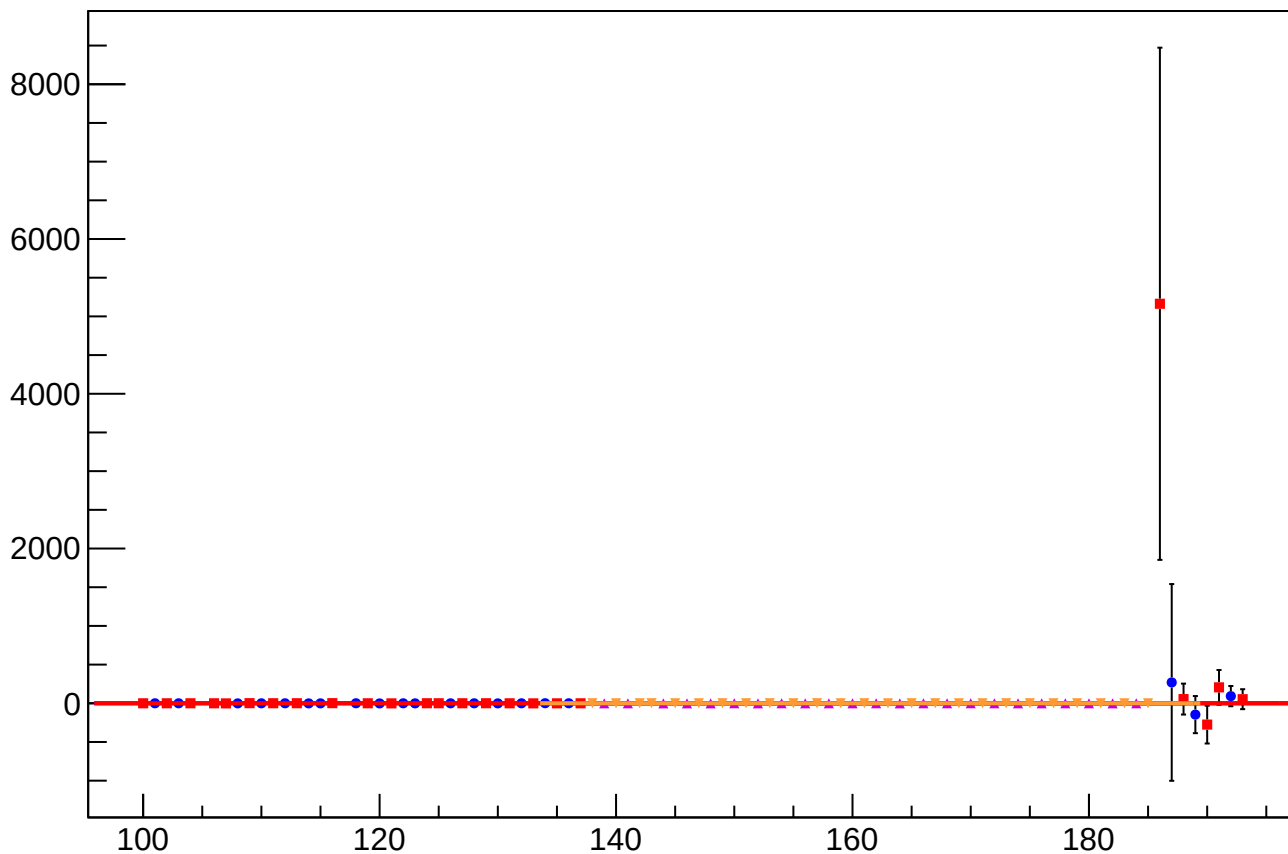
Right: 17.303+/-0.010 χ^2 /NDF: 29426417.3/43

In: 19.132+/-0.015 χ^2 /NDF: 47802713.9/42

Out: 19.001+/-0.014 χ^2 /NDF: 52279236.8/48

All: 19.063+/-0.010 χ^2 /NDF: 100081992.5/91

diff_cav4dY_mean vs Slug, Sign Corrected



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

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

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 23.0/23$

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

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

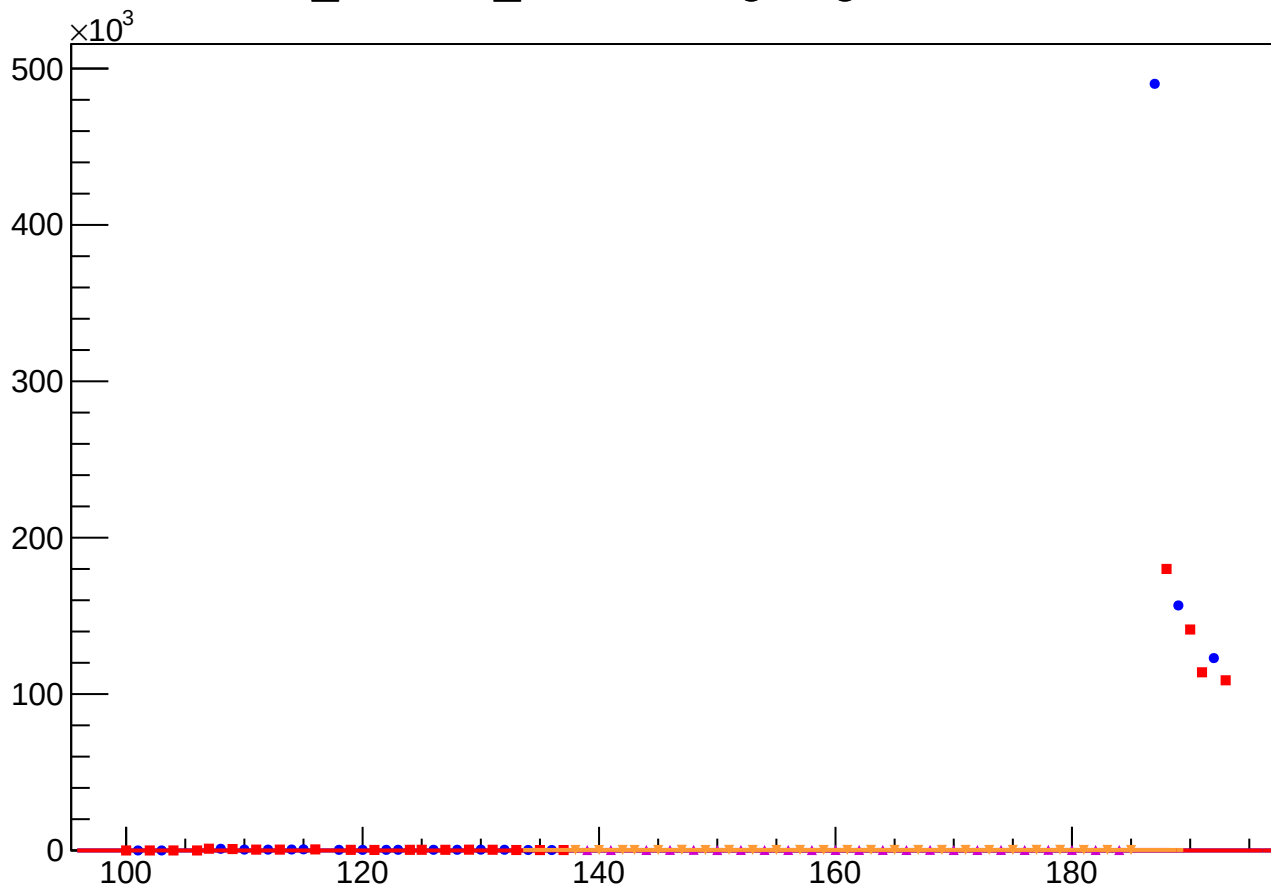
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 37.6/43$

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

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 44.1/48$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 94.4/91$

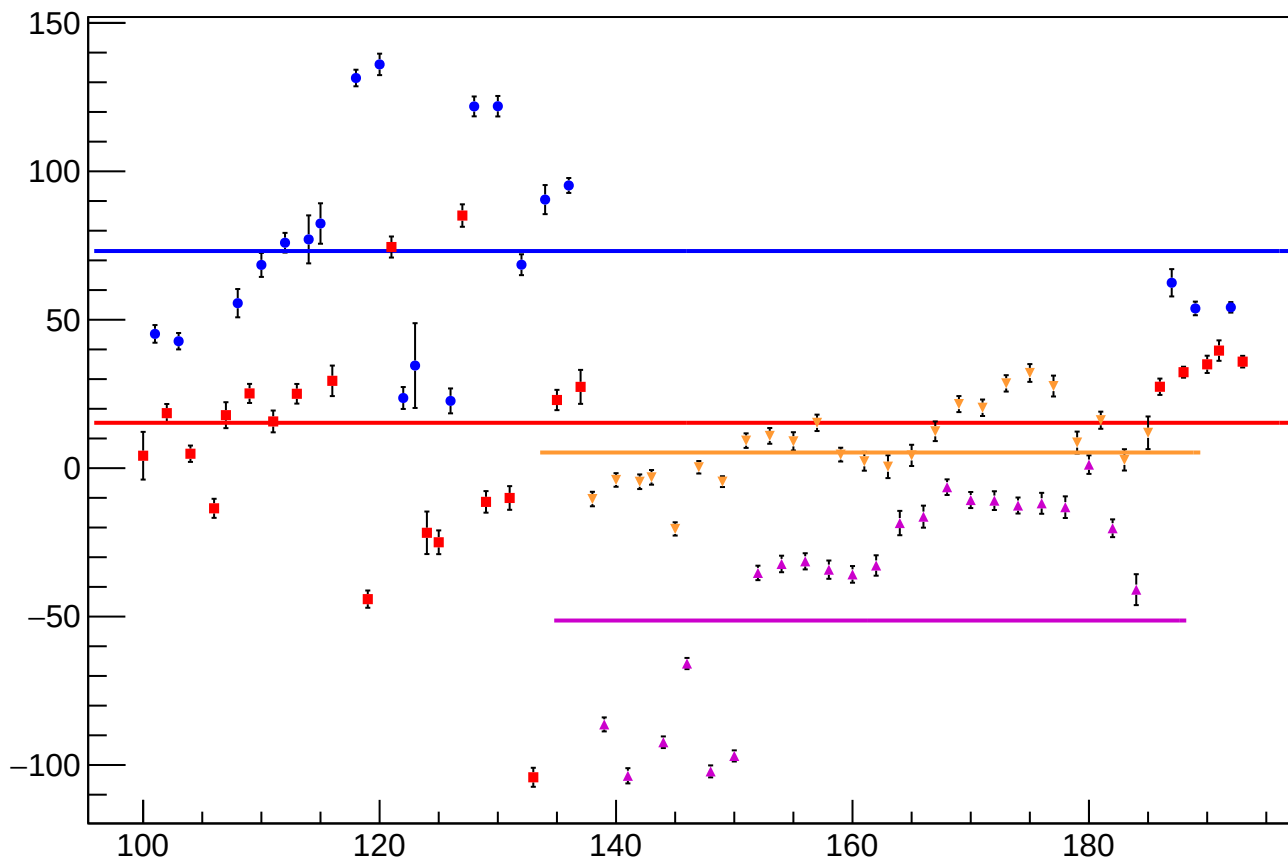
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 13931483.0/19
 Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24
 Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 14931294.5/22
 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: 28862994.8/42
 In: 1.913 $\pm$ 0.001 χ^2 /NDF:48073634.1/42
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:51138817.6/47
 All: 1.925 $\pm$ 0.001 χ^2 /NDF: 99212598.3/90

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 73.149 $\pm$ 0.740 χ^2 /NDF: 1991.2/19

Left Out: 5.276 $\pm$ 0.544 χ^2 /NDF: 556.2/24

Right Out: 15.285 $\pm$ 0.660 χ^2 /NDF: 3094.9/23

Left In: -51.328 $\pm$ 0.558 χ^2 /NDF: 4257.8/22

Left: -22.298 $\pm$ 0.390 χ^2 /NDF: 10084.6/47

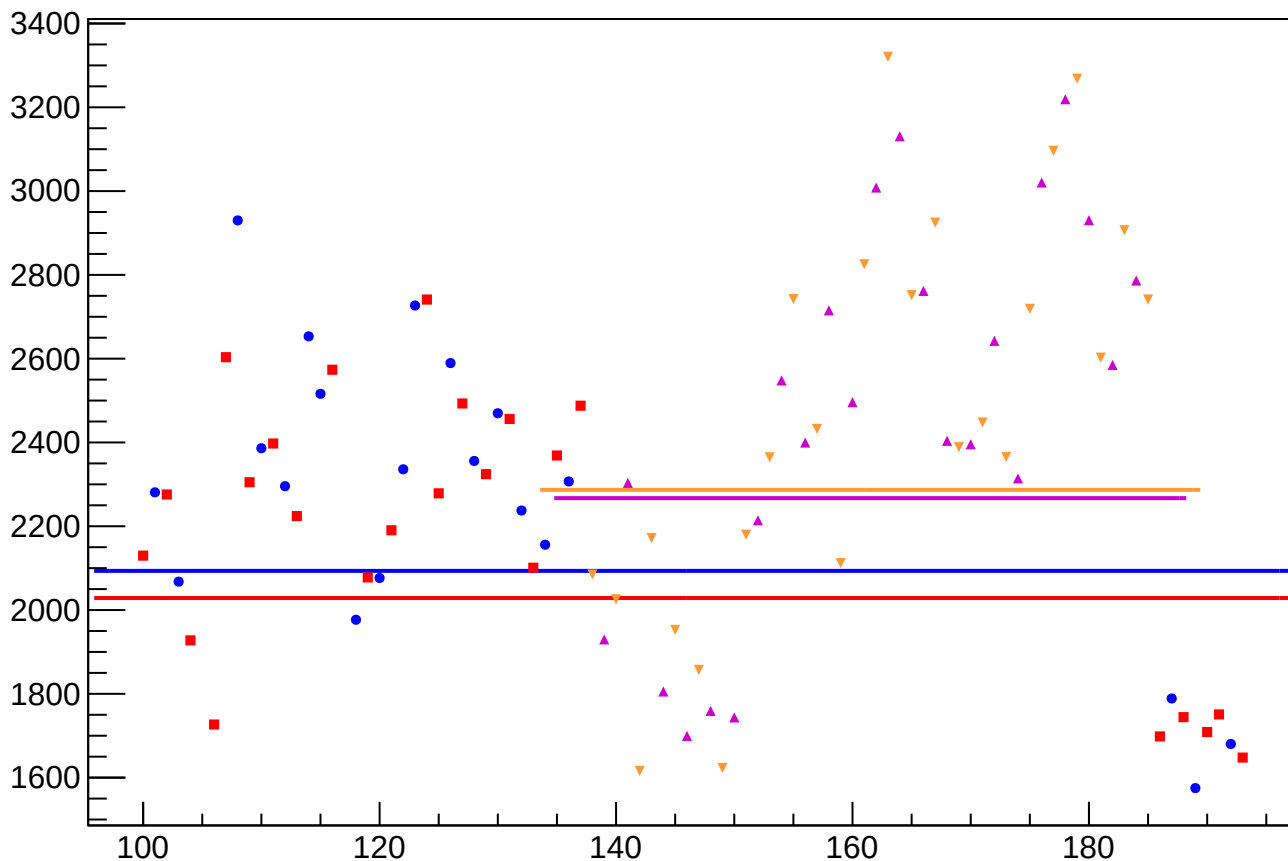
Right: 40.935 $\pm$ 0.493 χ^2 /NDF: 8489.5/43

In: -6.175 $\pm$ 0.446 χ^2 /NDF: 24277.2/42

Out: 9.324 $\pm$ 0.420 χ^2 /NDF: 3787.9/48

All: 2.035 $\pm$ 0.306 χ^2 /NDF: 28705.7/91

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2093.484 $\pm$ 0.523 χ^2/NDF : 422521.3/19

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

Right Out: 2028.677 $\pm$ 0.467 χ^2/NDF : 454177.8/23

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

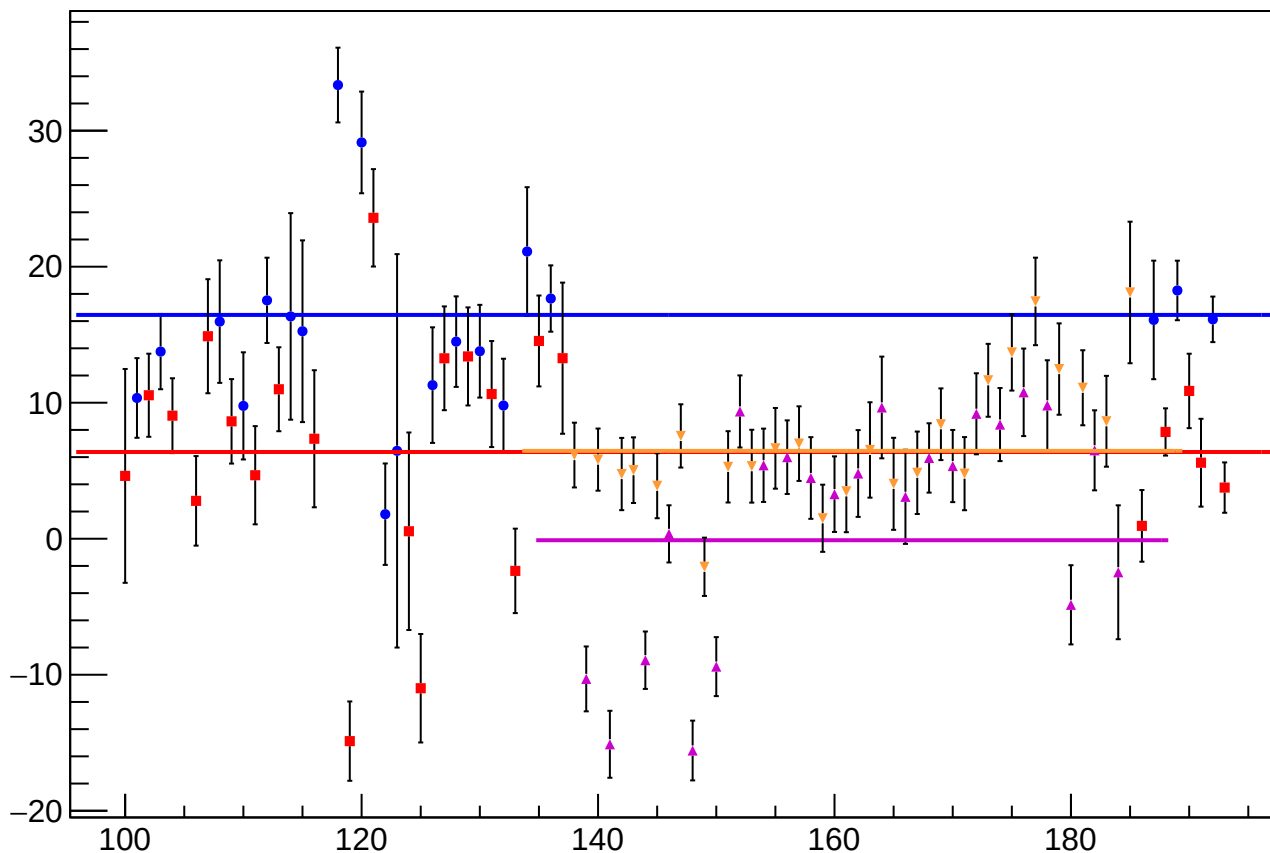
Right: 2057.405 $\pm$ 0.348 χ^2/NDF : 885237.2/43

In: 2204.121 $\pm$ 0.315 χ^2/NDF : 1806026.4/42

Out: 2182.452 $\pm$ 0.297 χ^2/NDF : 1996755.9/48

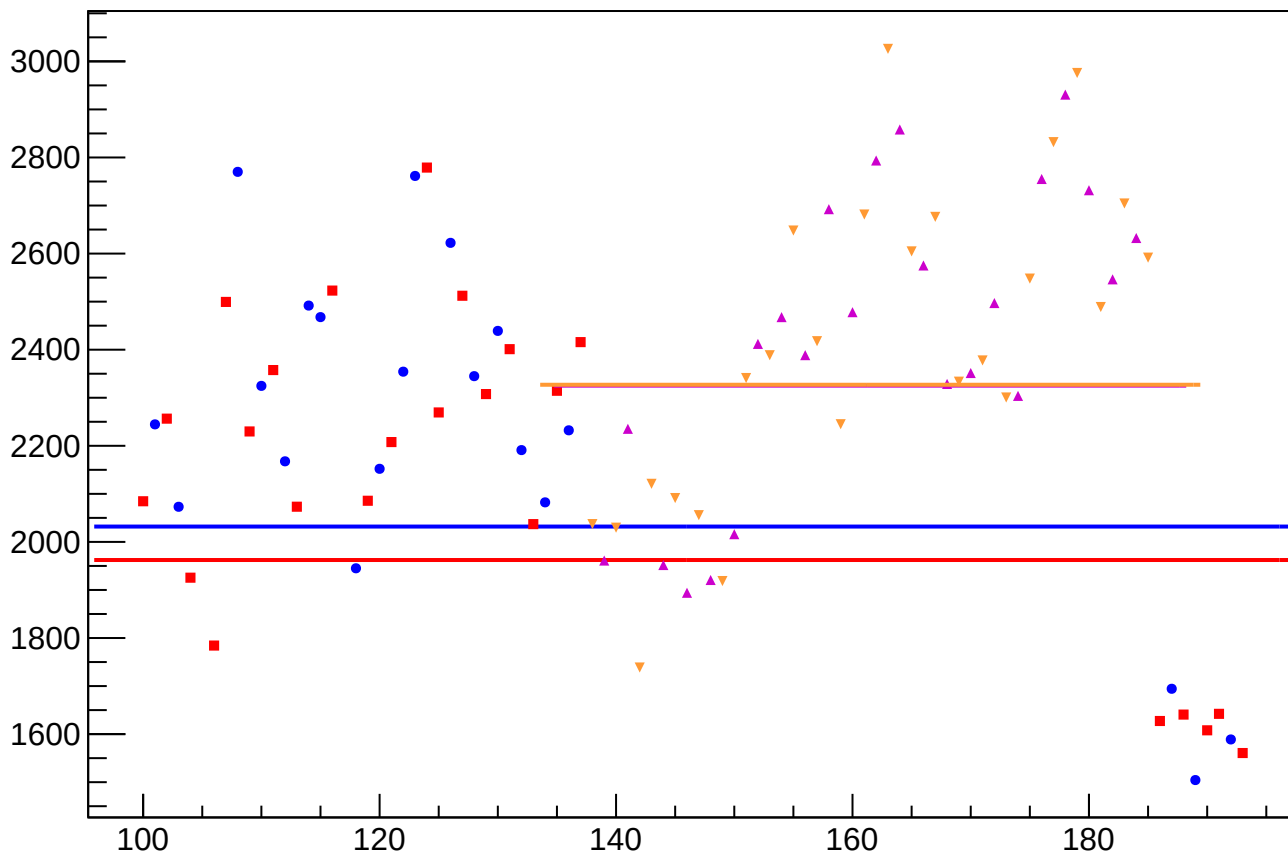
All: 2192.642 $\pm$ 0.216 χ^2/NDF : 3805286.4/91

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Left: 3.278 $\pm$ 0.393 χ^2/NDF : 363.0/47
 Right: 10.827 $\pm$ 0.478 χ^2/NDF : 331.7/43
 In: 6.209 $\pm$ 0.444 χ^2/NDF : 644.0/42
 Out: 6.424 $\pm$ 0.416 χ^2/NDF : 199.2/48
 All: 6.323 $\pm$ 0.304 χ^2/NDF : 843.4/91

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1962.327 $\pm$ 0.453 χ^2 /NDF: 544678.2/23

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

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

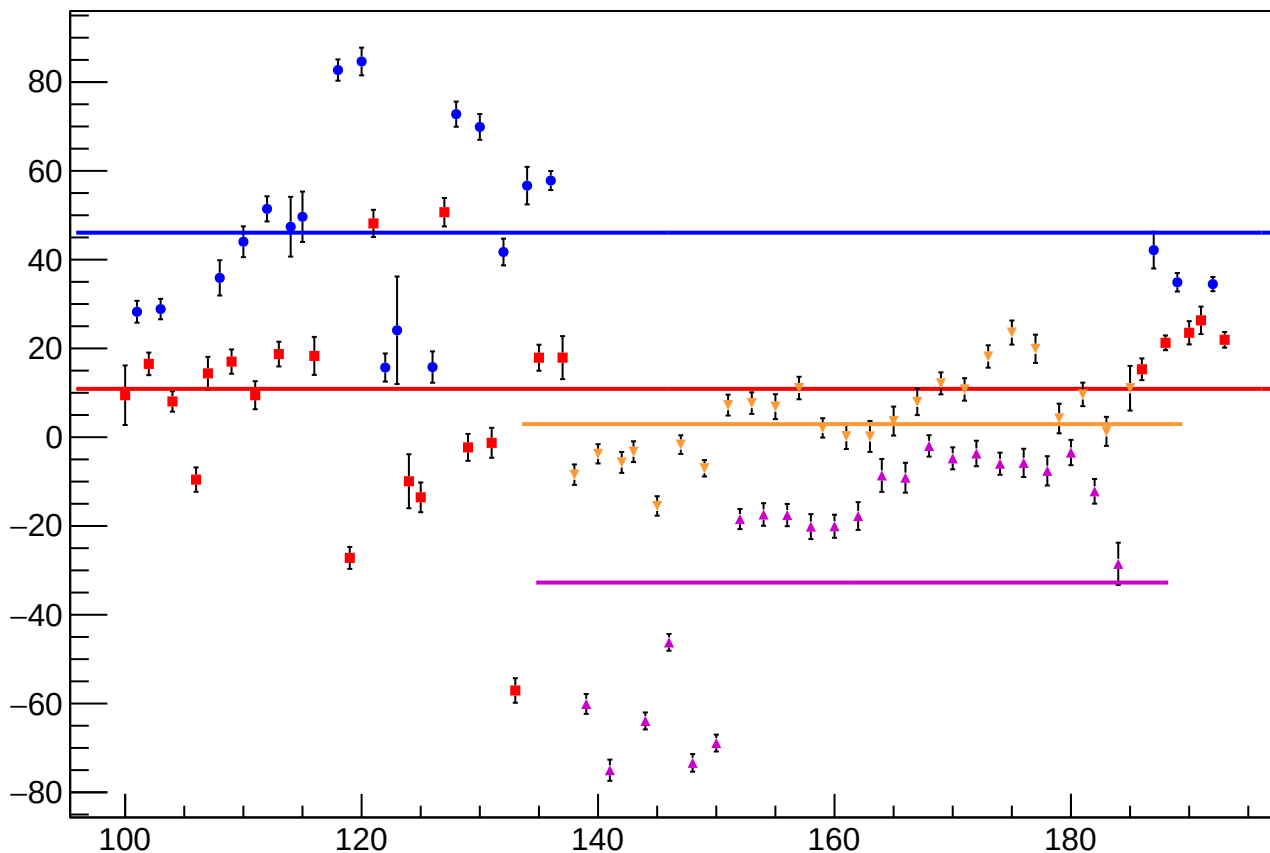
Right: 1993.075 $\pm$ 0.338 χ^2 /NDF: 1045806.8/43

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

Out: 2172.916 $\pm$ 0.294 χ^2 /NDF: 1566362.5/48

All: 2191.787 $\pm$ 0.215 χ^2 /NDF: 2881947.2/91

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

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

Right Out: 10.896 ± 0.572 $\chi^2/\text{NDF}: 1455.9/23$

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

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

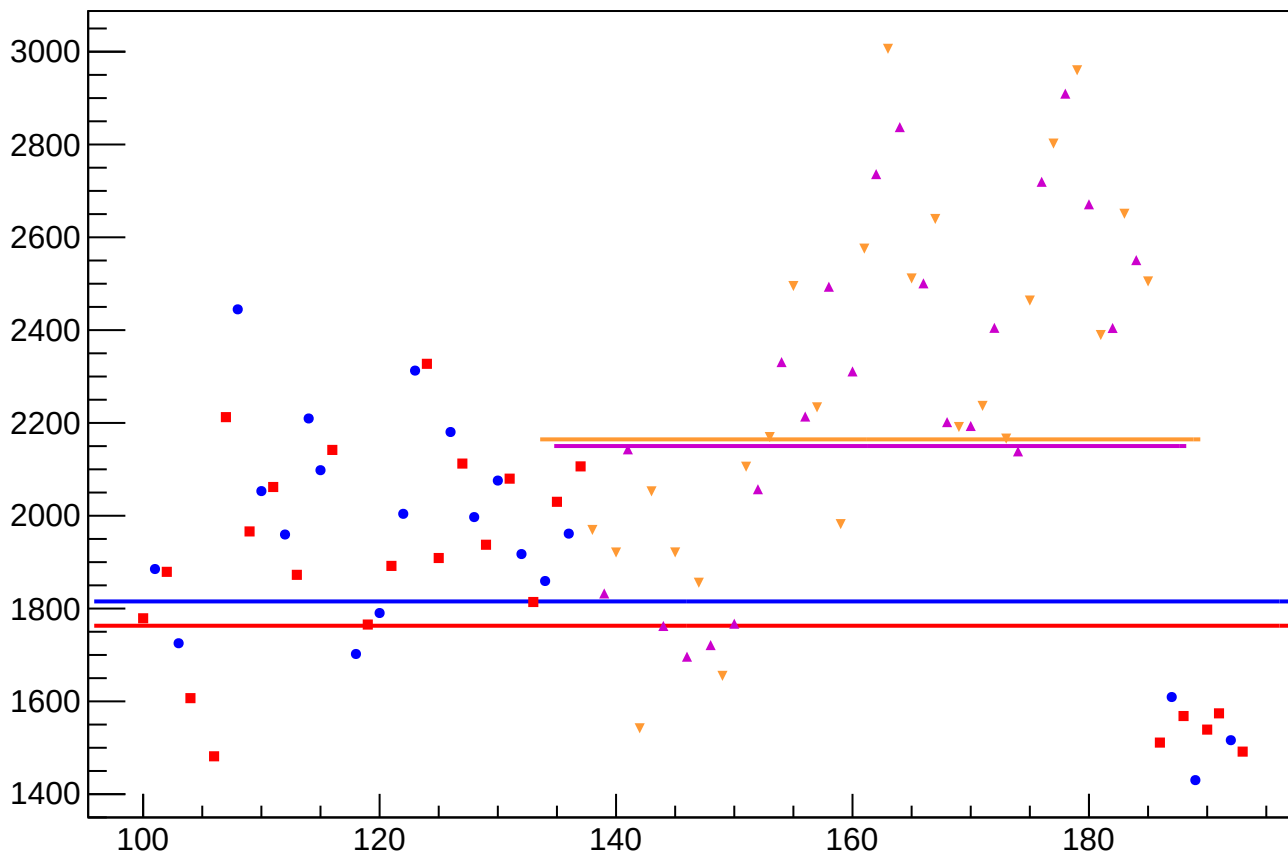
Right: 26.541 ± 0.426 $\chi^2/\text{NDF}: 4089.1/43$

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

Out: 6.486 ± 0.381 $\chi^2/\text{NDF}: 1900.8/48$

All: 3.024 ± 0.278 $\chi^2/\text{NDF}: 14726.9/91$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

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

Right Out: 1762.978 ± 0.404 χ^2/NDF : 329071.5/23

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

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

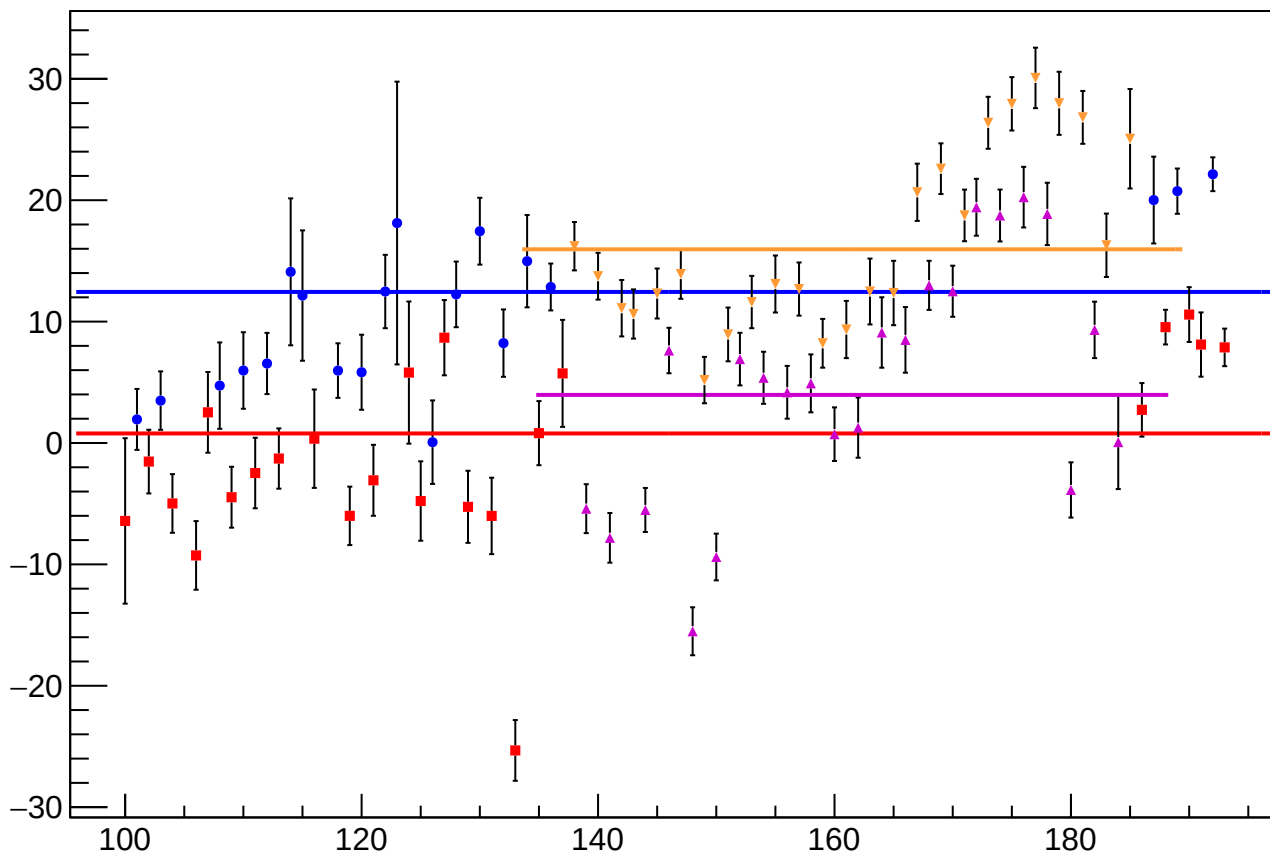
Right: 1786.270 ± 0.301 χ^2/NDF : 633619.7/43

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

Out: 1985.928 ± 0.270 χ^2/NDF : 1842189.9/48

All: 1999.514 ± 0.197 χ^2/NDF : 3383801.7/91

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 12.444 ± 0.592 χ^2/NDF : 150.7/19

Left Out: 15.956 ± 0.447 χ^2/NDF : 245.2/24

Right Out: 0.786 ± 0.528 χ^2/NDF : 251.6/23

Left In: 3.960 ± 0.463 χ^2/NDF : 464.9/22

Left: 10.161 ± 0.322 χ^2/NDF : 1057.3/47

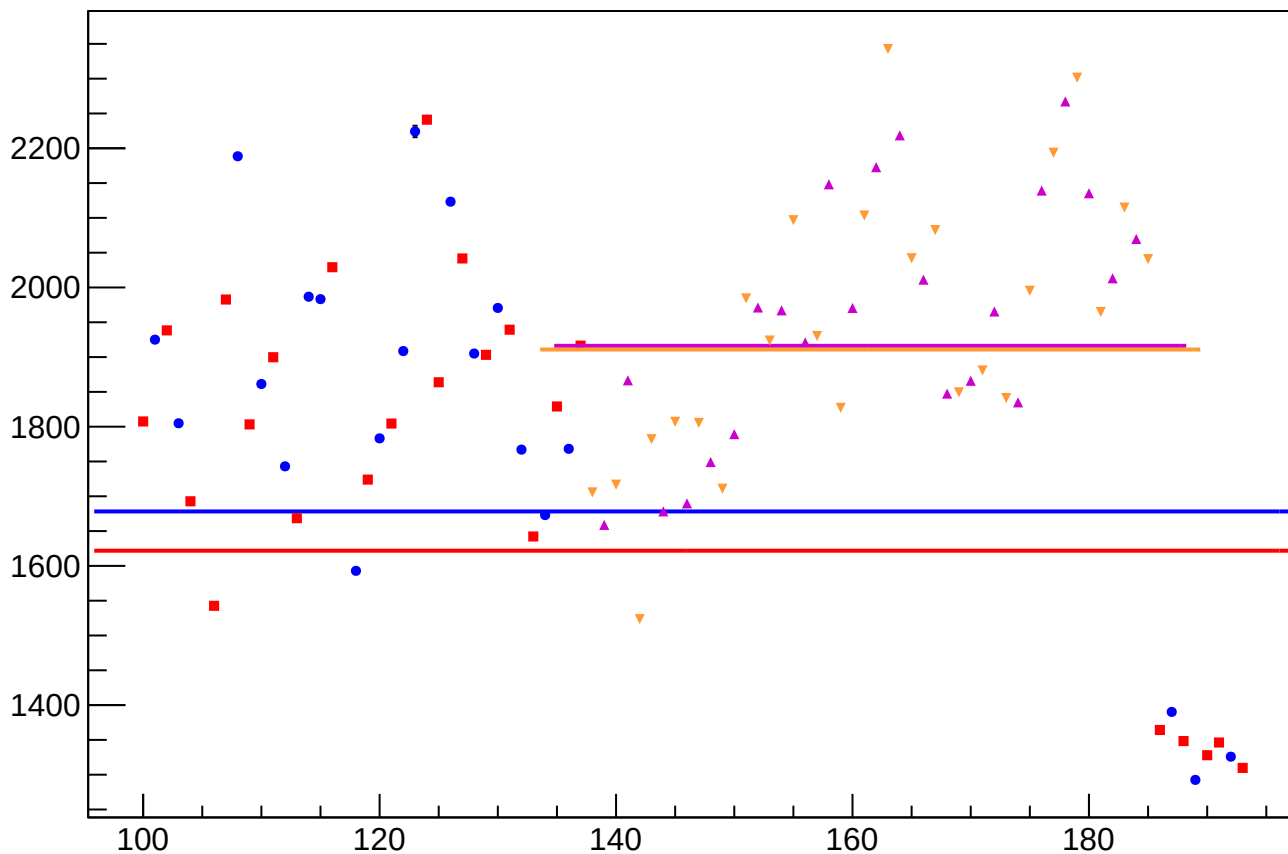
Right: 5.944 ± 0.394 χ^2/NDF : 618.3/43

In: 7.177 ± 0.365 χ^2/NDF : 743.0/42

Out: 9.610 ± 0.341 χ^2/NDF : 977.7/48

All: 8.474 ± 0.249 χ^2/NDF : 1744.5/91

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

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

Right Out: 1621.831 $\pm$ 0.373 χ^2 /NDF: 485945.8/23

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

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

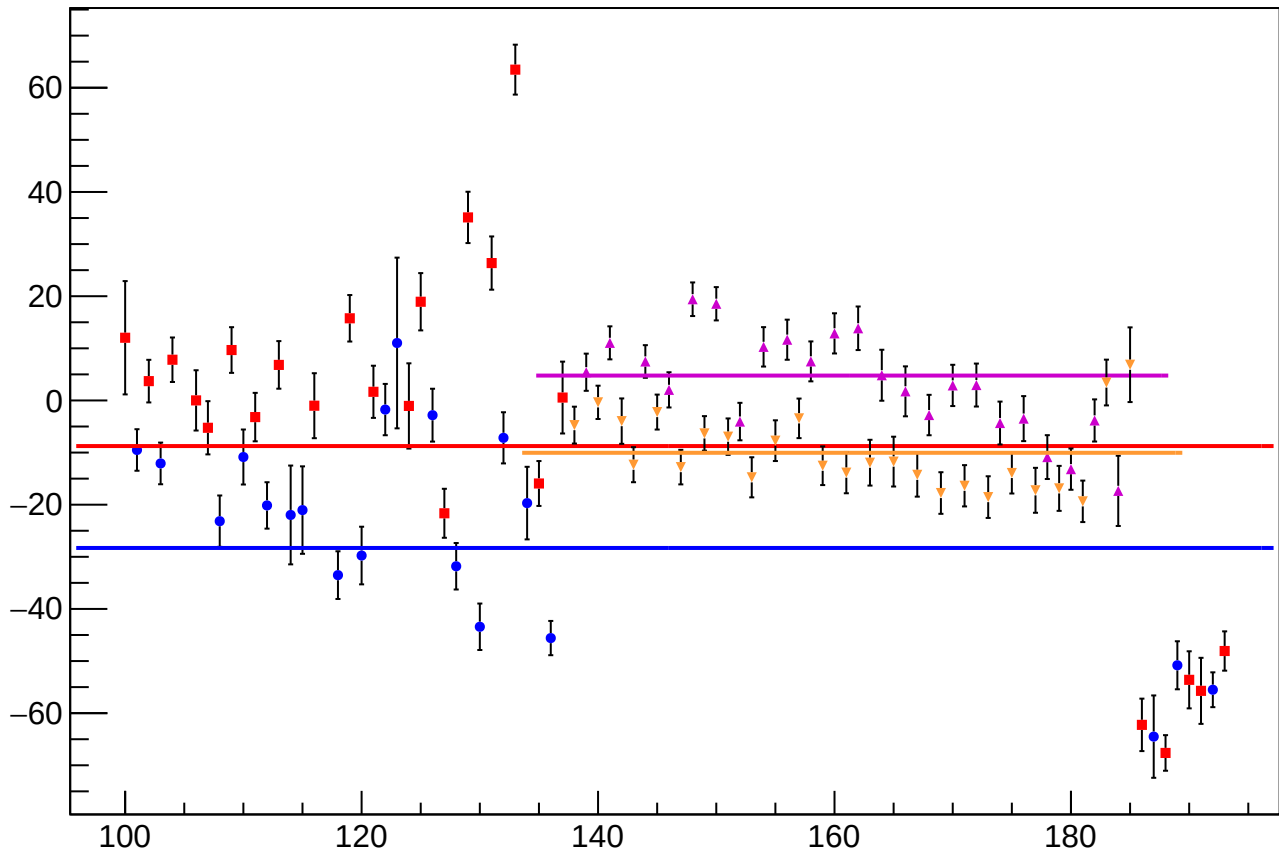
Right: 1646.774 $\pm$ 0.279 χ^2 /NDF: 905857.2/43

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

Out: 1789.946 $\pm$ 0.241 χ^2 /NDF: 1164087.9/48

All: 1806.747 $\pm$ 0.176 χ^2 /NDF: 2059006.7/93

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -28.302±/-1.084 χ^2/NDF : 287.8/19

Left Out: -10.042±/-0.776 χ^2/NDF : 67.1/24

Right Out: -8.751±/-1.001 χ^2/NDF : 1131.1/23

Left In: 4.774±/-0.800 χ^2/NDF : 128.5/22

Left: -2.861±/-0.557 χ^2/NDF : 372.2/47

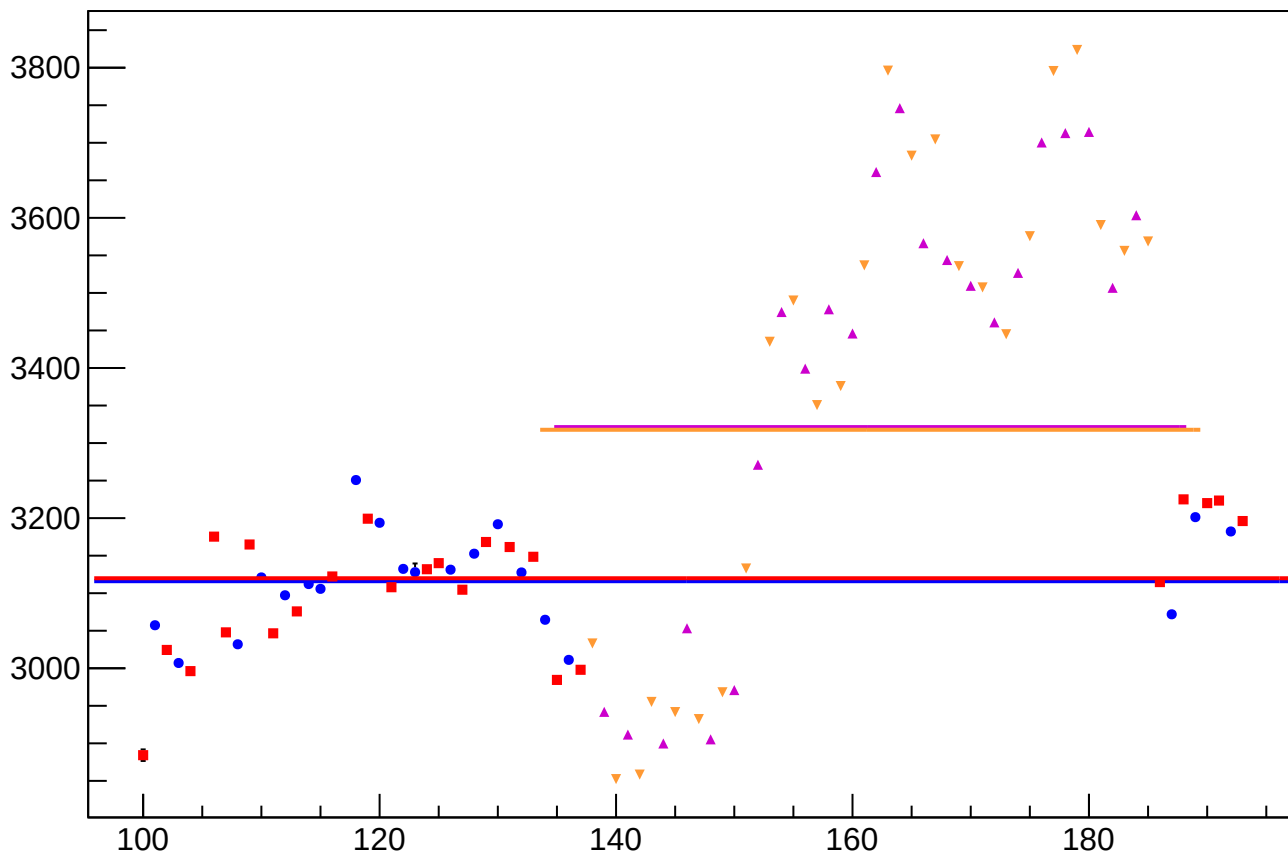
Right: -17.744±/-0.735 χ^2/NDF : 1594.5/43

In: -6.896±/-0.644 χ^2/NDF : 1018.7/42

Out: -9.556±/-0.613 χ^2/NDF : 1199.3/48

All: -8.291±/-0.444 χ^2/NDF : 2226.9/91

diff_bpm0l01X_rms vs Slug, Sign Corrected



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

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

Right Out: 3119.916 $\pm$ 0.707 χ^2 /NDF: 12801.5/23

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

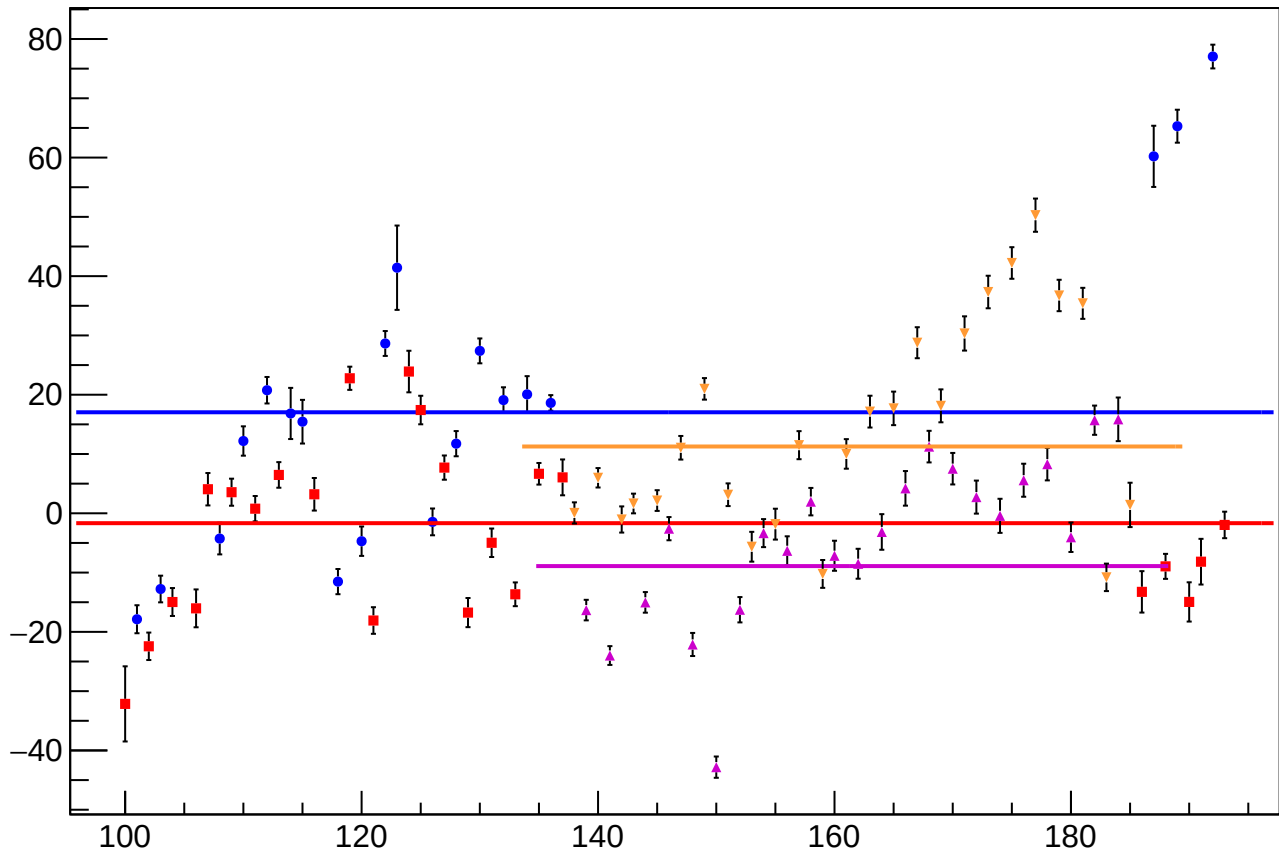
Right: 3118.108 $\pm$ 0.520 χ^2 /NDF: 21932.5/43

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

Out: 3243.370 $\pm$ 0.434 χ^2 /NDF:398462.4/48

All: 3245.973 $\pm$ 0.314 χ^2 /NDF: 738401.5/91

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

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

Right Out: -1.666 ± 0.500 $\chi^2/\text{NDF}: 675.5/23$

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

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

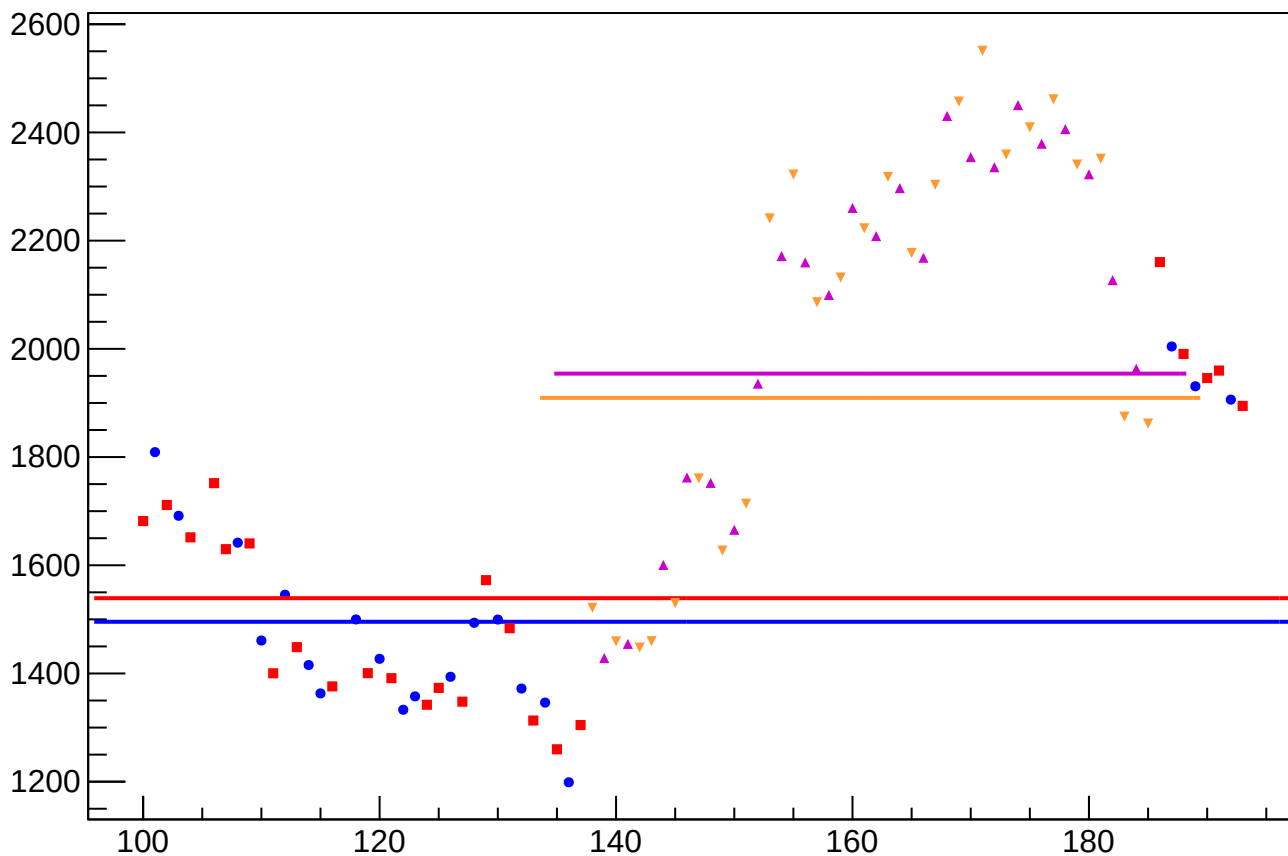
Right: 7.196 ± 0.363 $\chi^2/\text{NDF}: 3471.8/43$

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

Out: 5.419 ± 0.336 $\chi^2/\text{NDF}: 2183.7/48$

All: 4.172 ± 0.244 $\chi^2/\text{NDF}: 6613.1/91$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1539.178 $\pm$ 0.354 χ^2 /NDF: 448086.5/23

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

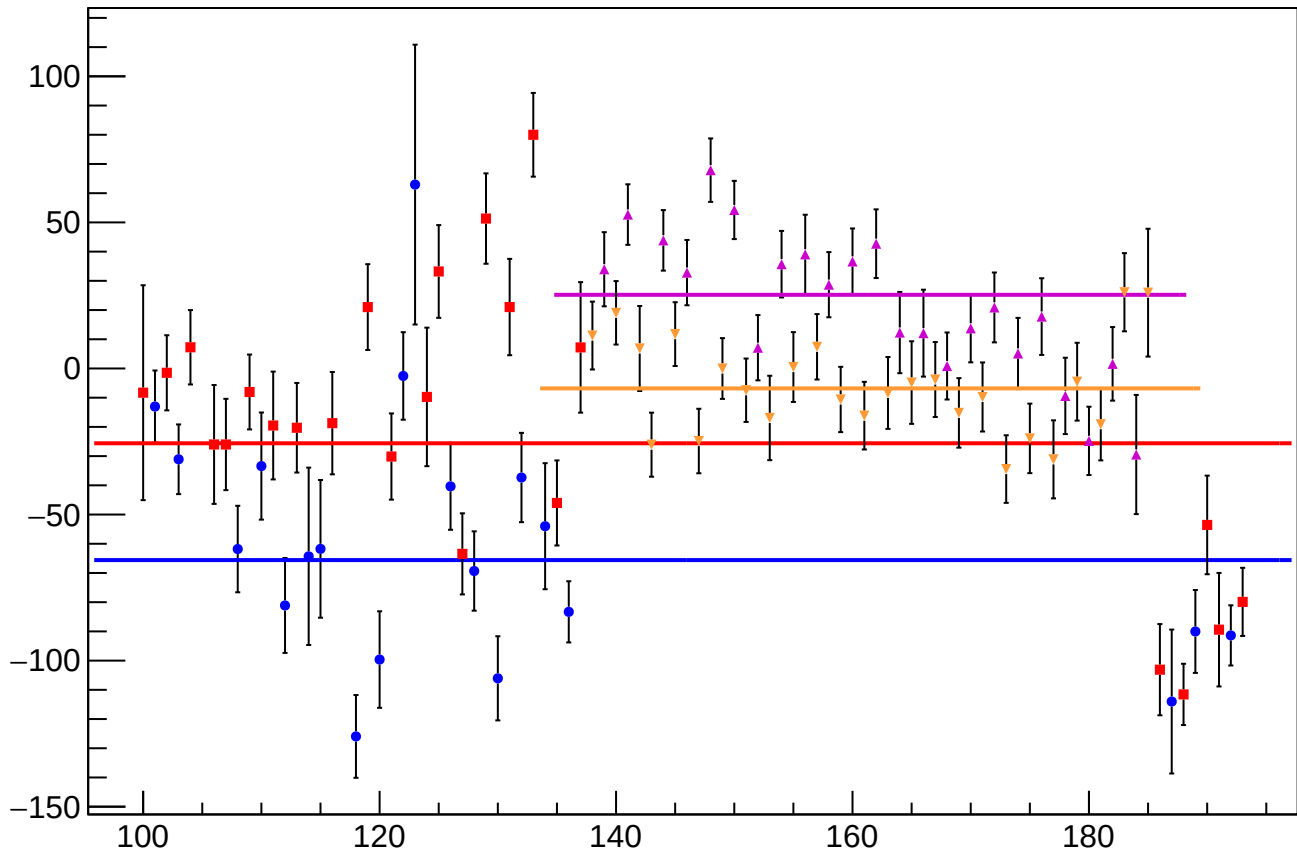
Right: 1518.513 $\pm$ 0.257 χ^2 /NDF: 800504.9/43

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

Out: 1741.989 $\pm$ 0.238 χ^2 /NDF:2446961.3/48

All: 1744.587 $\pm$ 0.172 χ^2 /NDF: 4669097.6/91

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -65.590 $\pm$ 3.377 χ^2/NDF : 108.4/19

Left Out: -6.825 $\pm$ 2.423 χ^2/NDF : 42.3/24

Right Out: -25.604 $\pm$ 3.126 χ^2/NDF : 262.6/23

Left In: 25.215 $\pm$ 2.487 χ^2/NDF : 89.3/22

Left: 8.777 $\pm$ 1.735 χ^2/NDF : 216.8/47

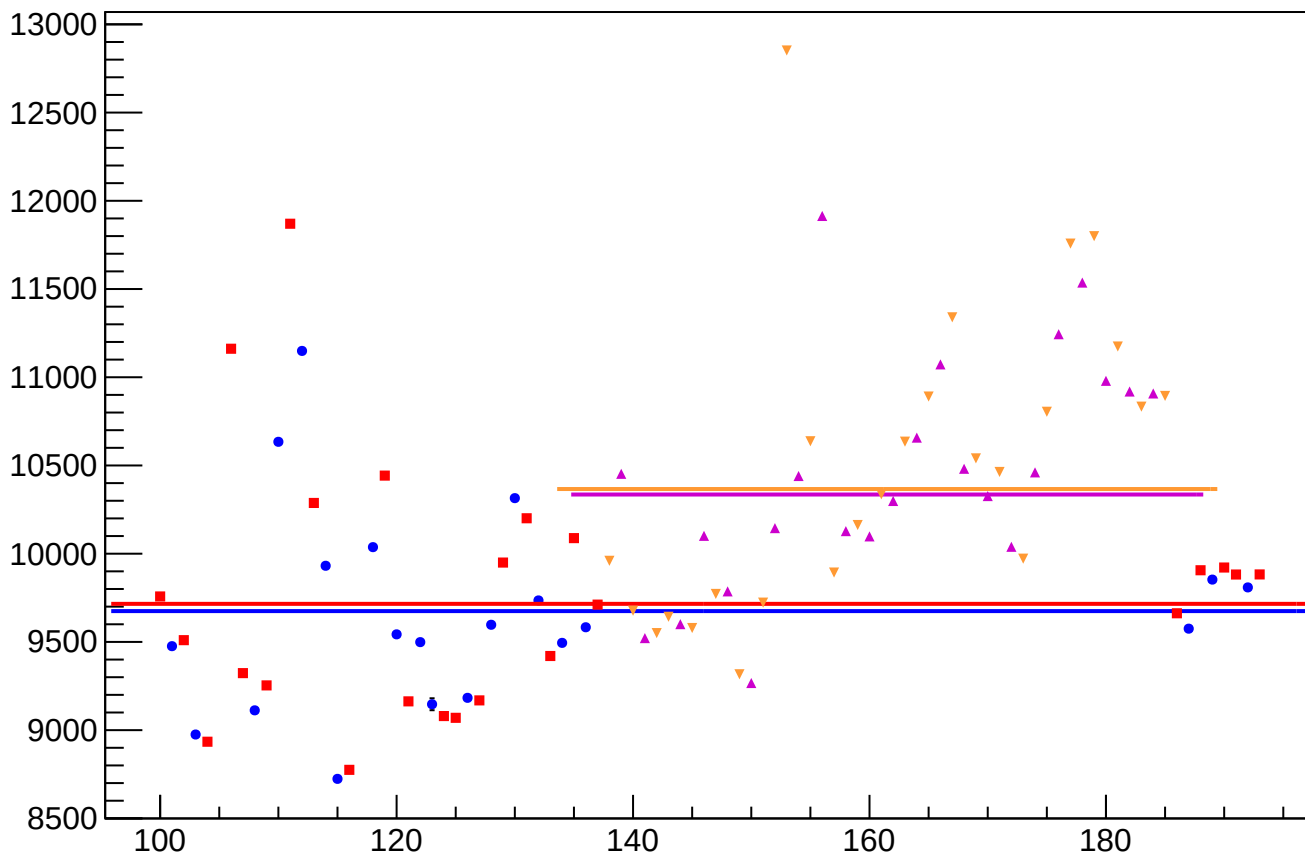
Right: -44.058 $\pm$ 2.294 χ^2/NDF : 446.5/43

In: -6.713 $\pm$ 2.002 χ^2/NDF : 666.6/42

Out: -13.871 $\pm$ 1.915 χ^2/NDF : 327.5/48

All: -10.452 $\pm$ 1.384 χ^2/NDF : 1000.7/91

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9674.672+/-2.388 χ^2 /NDF: 44796.8/19

Left Out: 10366.534+/-1.713 χ^2 /NDF:211402.8/24

Right Out: 9715.771+/-2.210 χ^2 /NDF: 79264.2/23

Left In: 10335.399+/-1.758 χ^2 /NDF:127173.0/22

Left: 10351.373+/-1.227 χ^2 /NDF: 338736.7/47

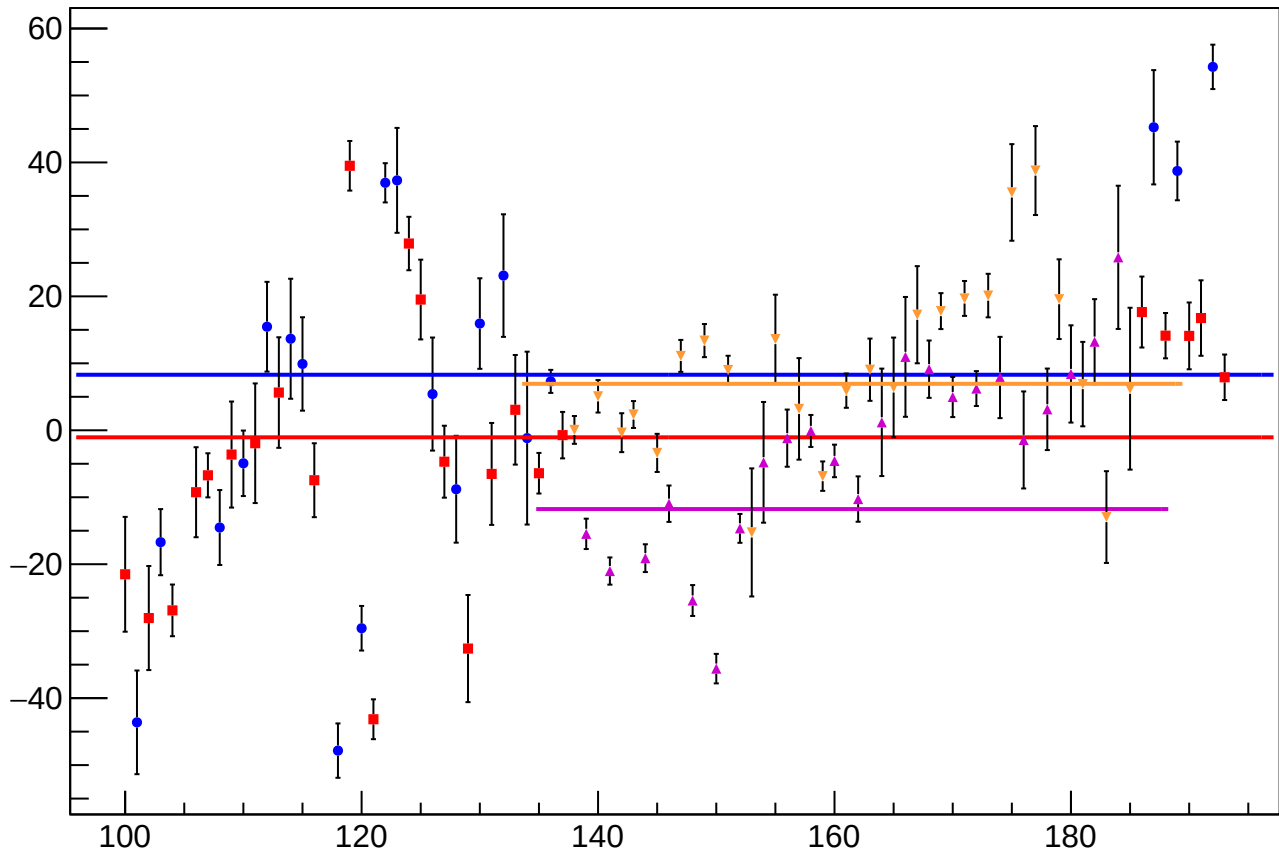
Right: 9696.803+/-1.622 χ^2 /NDF: 124220.6/43

In: 10103.078+/-1.416 χ^2 /NDF:221621.0/42

Out: 10122.358+/-1.354 χ^2 /NDF:344819.3/48

All: 10113.148+/-0.979 χ^2 /NDF: 566537.1/91

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 8.294 $\pm$ 0.983 χ^2/NDF : 794.8/19

Left Out: 6.939 $\pm$ 0.639 χ^2/NDF : 203.8/24

Right Out: -1.051 $\pm$ 0.945 χ^2/NDF : 532.3/23

Left In: -11.766 $\pm$ 0.648 χ^2/NDF : 395.1/22

Left: -2.274 $\pm$ 0.455 χ^2/NDF : 1021.3/47

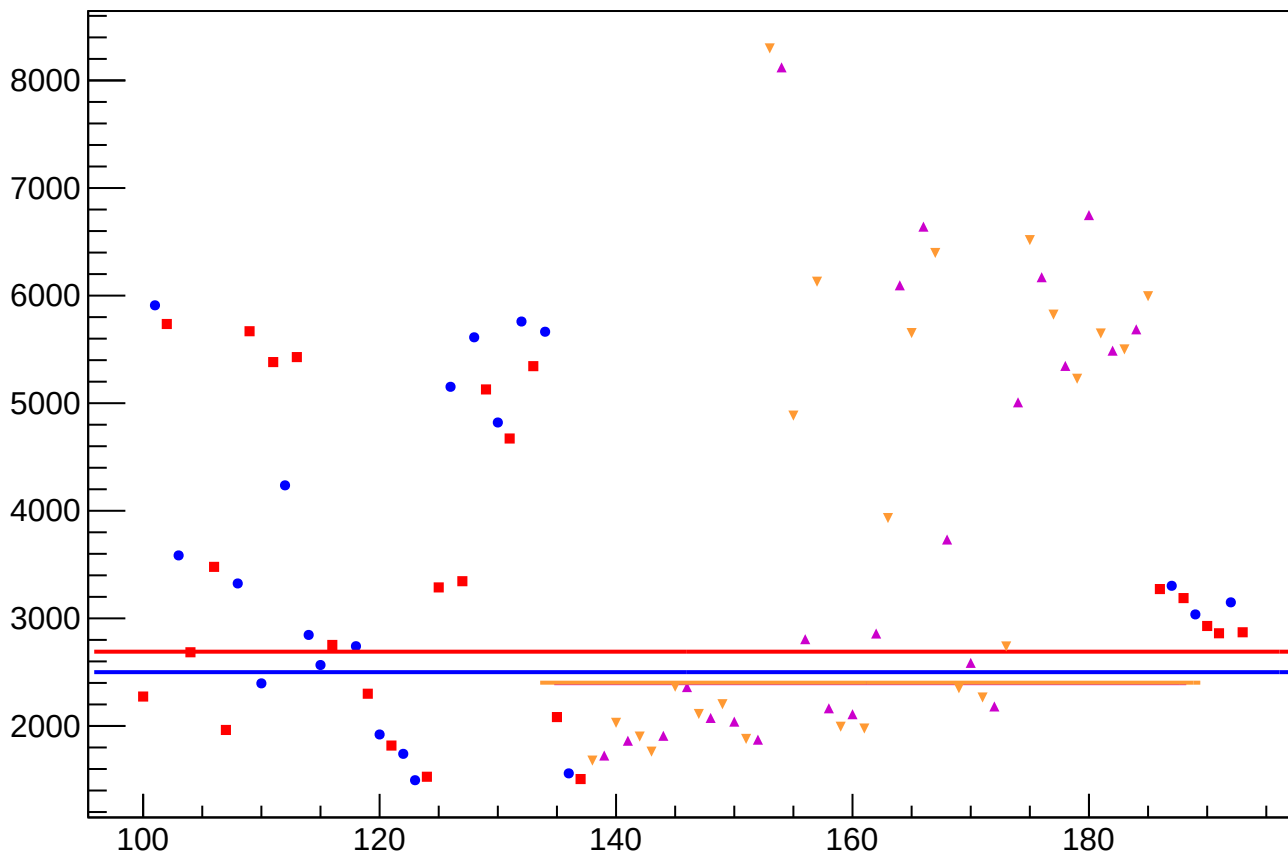
Right: 3.437 $\pm$ 0.681 χ^2/NDF : 1374.0/43

In: -5.685 $\pm$ 0.541 χ^2/NDF : 1480.1/42

Out: 4.433 $\pm$ 0.529 χ^2/NDF : 785.2/48

All: -0.512 $\pm$ 0.378 χ^2/NDF : 2443.9/91

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2500.150 ± 0.695

χ^2/NDF : 2734869.0/19

Left Out: 2402.359 ± 0.452

χ^2/NDF : 6345982.8/24

Right Out: 2690.432 ± 0.668

χ^2/NDF : 2459767.4/23

Left In: 2397.701 ± 0.458

χ^2/NDF : 5398920.1/22

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

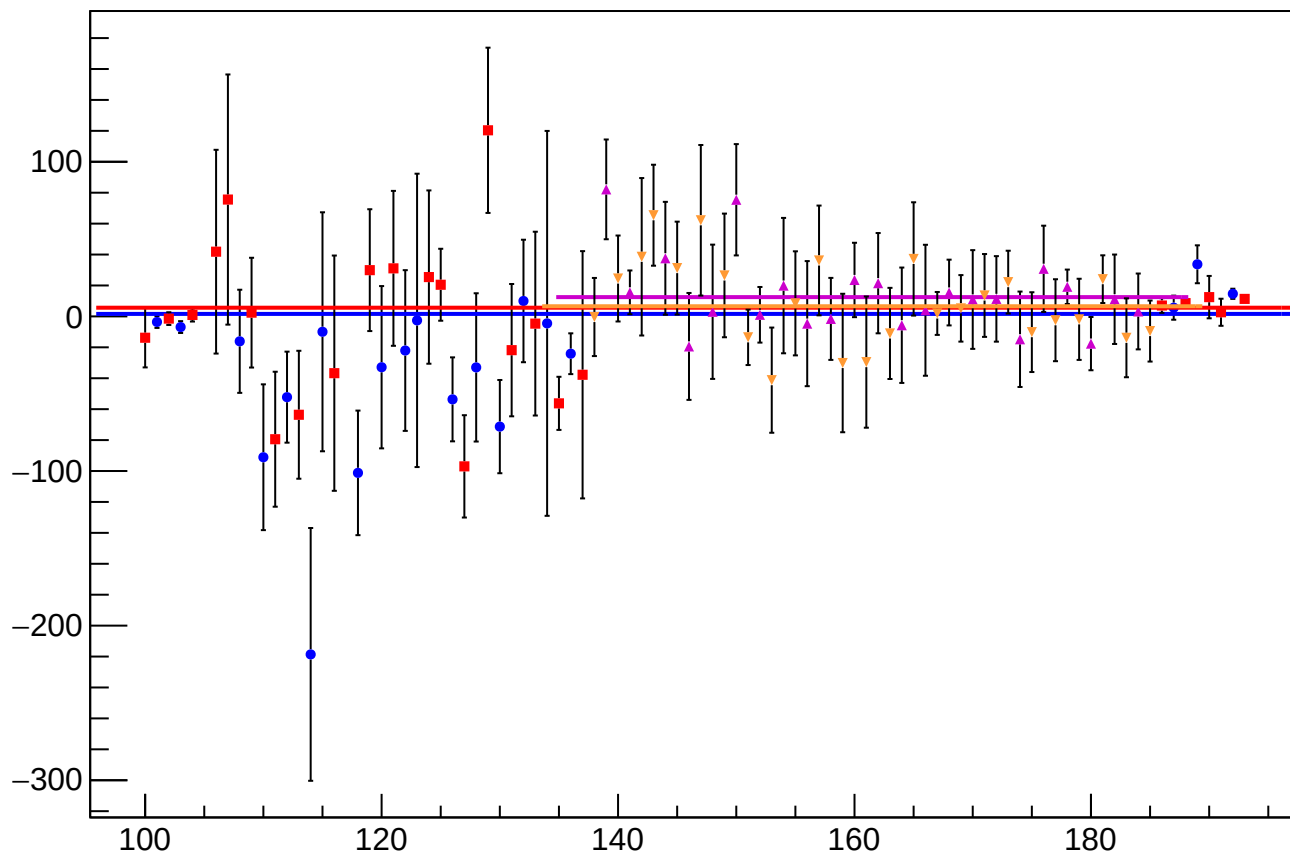
Right: 2599.049 ± 0.482 χ^2/NDF : 5233585.6/43

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

Out: 2492.709 ± 0.374 χ^2/NDF : 8933334.0/48

All: 2461.453 ± 0.268 χ^2/NDF : 17096536.7/95

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 1.605 $\pm$ 1.943 χ^2 /NDF: 65.9/19

Left Out: 6.560 $\pm$ 5.077 χ^2 /NDF:16.8/24

Right Out: 5.621 $\pm$ 1.550 χ^2 /NDF: 47.4/23

Left In: 12.469 $\pm$ 5.025 χ^2 /NDF:15.4/22

Left: 9.545 $\pm$ 3.572 χ^2 /NDF: 32.8/47

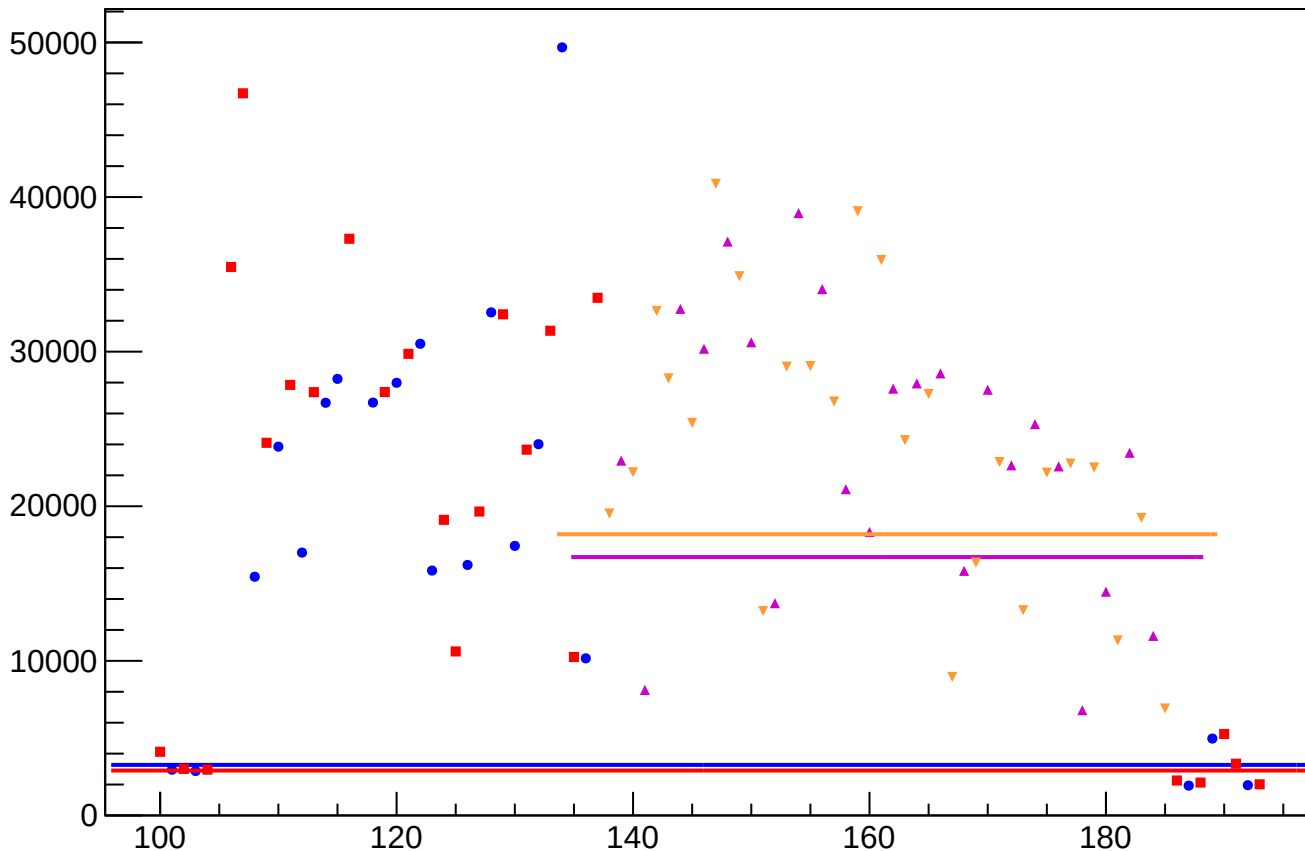
Right: 4.059 $\pm$ 1.212 χ^2 /NDF: 115.8/43

In: 3.017 $\pm$ 1.812 χ^2 /NDF:85.3/42

Out: 5.701 $\pm$ 1.482 χ^2 /NDF:64.1/48

All: 4.625 $\pm$ 1.147 χ^2 /NDF: 150.8/91

diff_bpm0l03X_rms vs Slug, Sign Corrected



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

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

Right Out: 2905.633+/-1.096 χ^2/NDF : 8423011.3/23

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

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

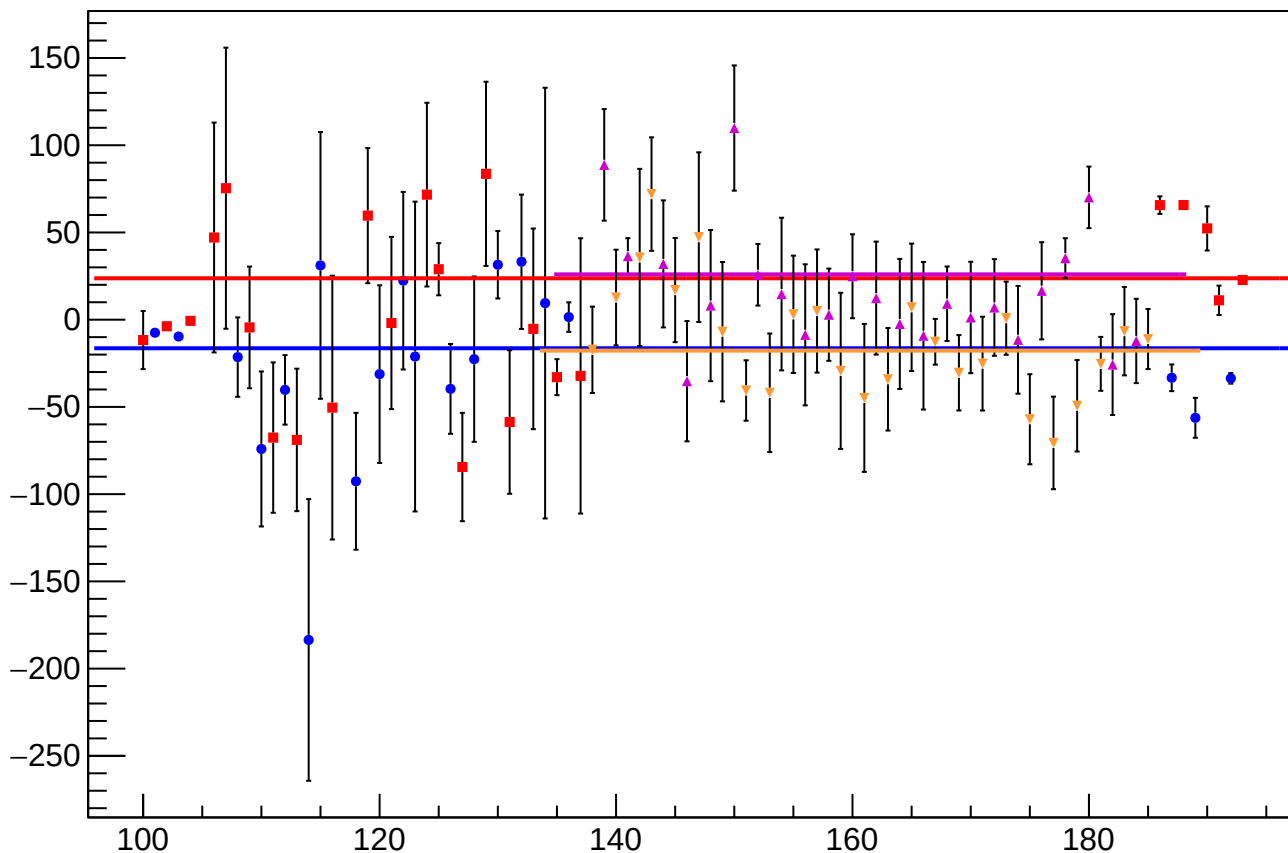
Right: 3047.529+/-0.857 χ^2/NDF : 15091398.5/43

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

Out: 4208.630+/-1.048 χ^2/NDF : 30263493.7/48

All: 4533.230+/-0.811 χ^2/NDF : 55773918.2/9

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -16.370 $\pm$ 1.490 χ^2/NDF : 92.9/19

Left Out: -17.717 $\pm$ 4.974 χ^2/NDF : 27.2/24

Right Out: 23.732 $\pm$ 1.292 χ^2/NDF : 553.0/23

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

Left: 4.967 $\pm$ 3.450 χ^2/NDF : 99.8/47

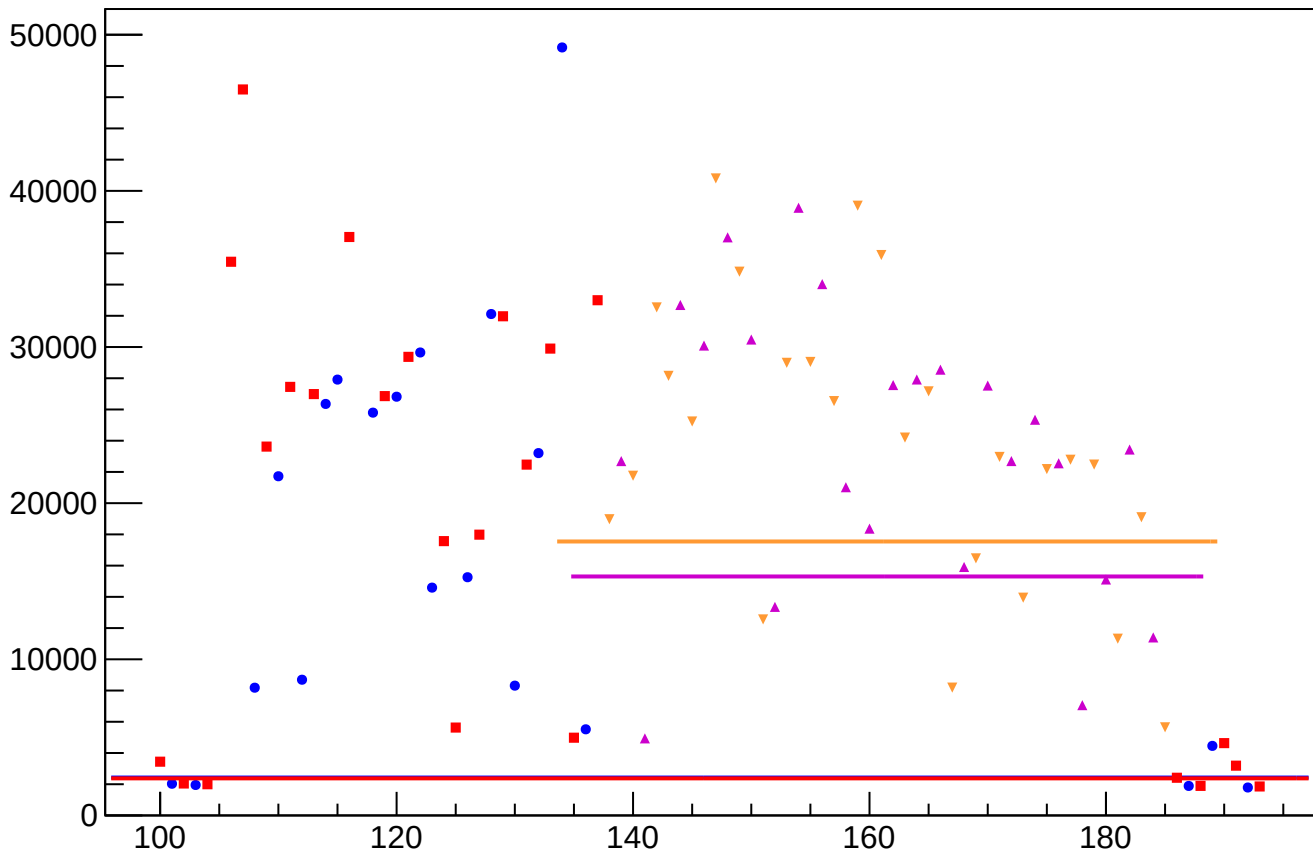
Right: 6.522 $\pm$ 0.976 χ^2/NDF : 1059.2/43

In: -12.629 $\pm$ 1.423 χ^2/NDF : 196.9/42

Out: 21.111 $\pm$ 1.251 χ^2/NDF : 645.2/48

All: 6.407 $\pm$ 0.939 χ^2/NDF : 1159.2/91

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2427.284 ± 1.054 $\chi^2/\text{NDF}: 5756430.7/19$

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

Right Out: 2375.366 ± 0.914 $\chi^2/\text{NDF}: 8113856.4/23$

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

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

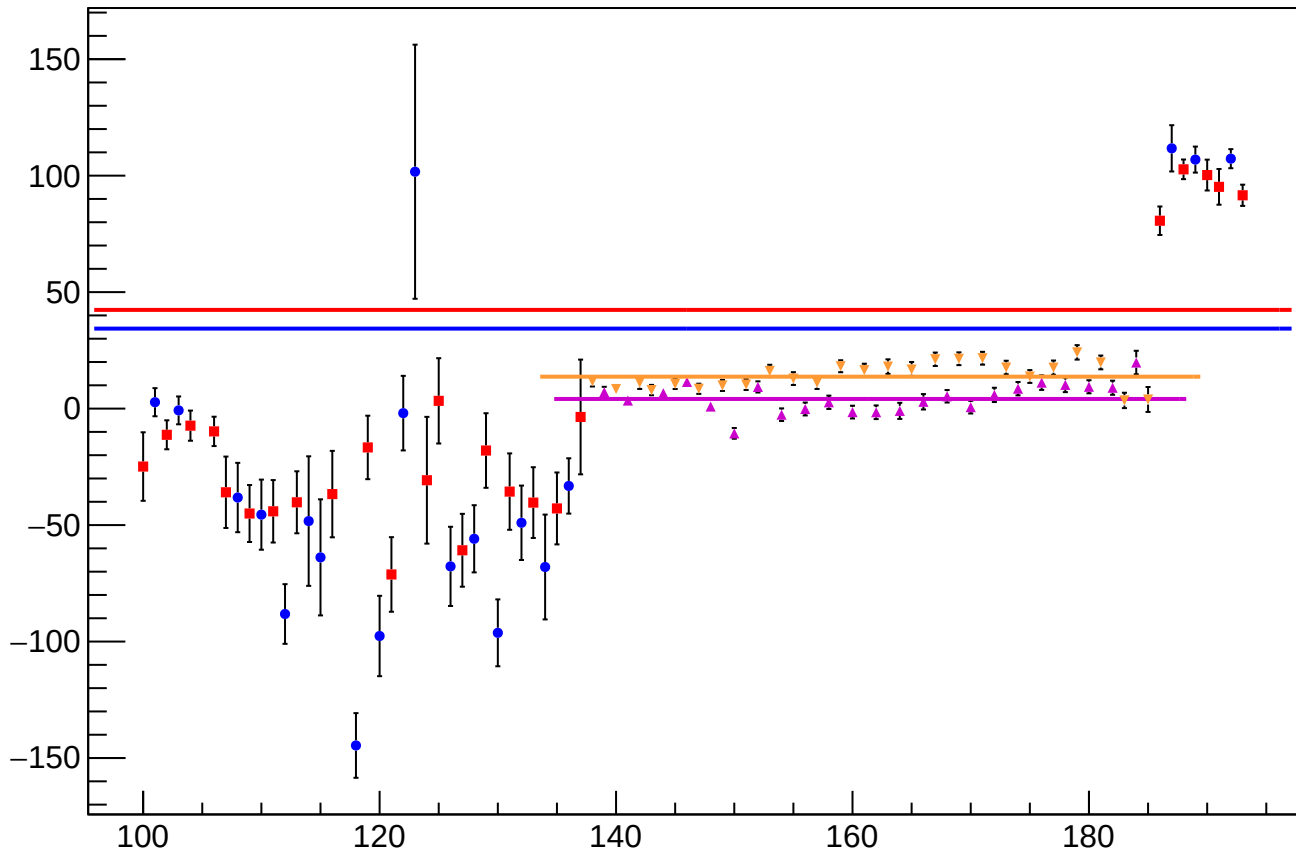
Right: 2397.646 ± 0.690 $\chi^2/\text{NDF}: 13871672.6/43$

In: 3564.449 ± 1.006 $\chi^2/\text{NDF}: 26663552.7/42$

Out: 3334.466 ± 0.884 $\chi^2/\text{NDF}: 31443914.5/48$

All: 3434.694 ± 0.664 $\chi^2/\text{NDF}: 58136939.1/95$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

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

Right Out: 42.376 ± 1.793 $\chi^2/\text{NDF}: 1107.6/23$

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

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

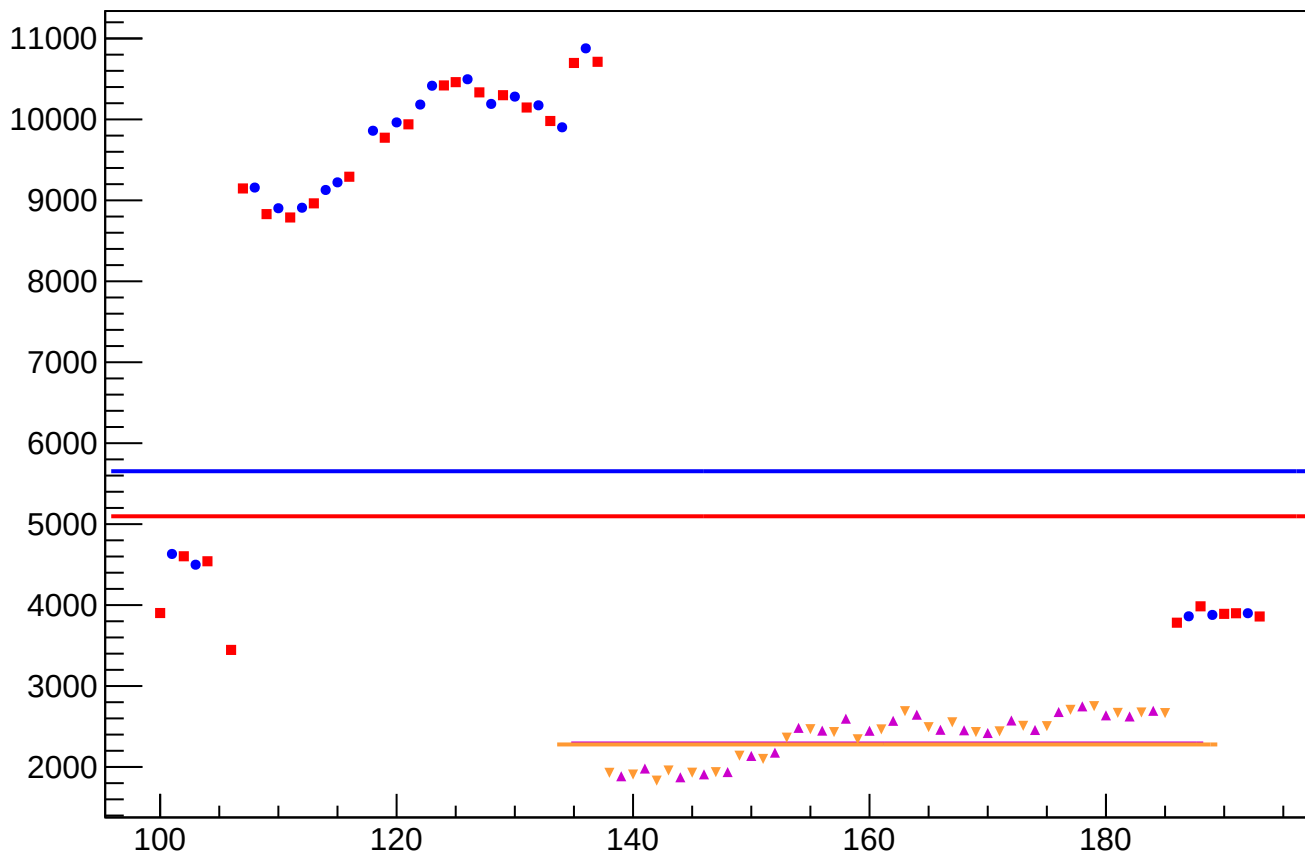
Right: 39.101 ± 1.380 $\chi^2/\text{NDF}: 2361.9/43$

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

Out: 16.056 ± 0.513 $\chi^2/\text{NDF}: 1432.3/48$

All: 11.266 ± 0.371 $\chi^2/\text{NDF}: 3156.2/91$

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

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

Right Out: 5096.990+/-1.268 χ^2/NDF : 3287355.3/23

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

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

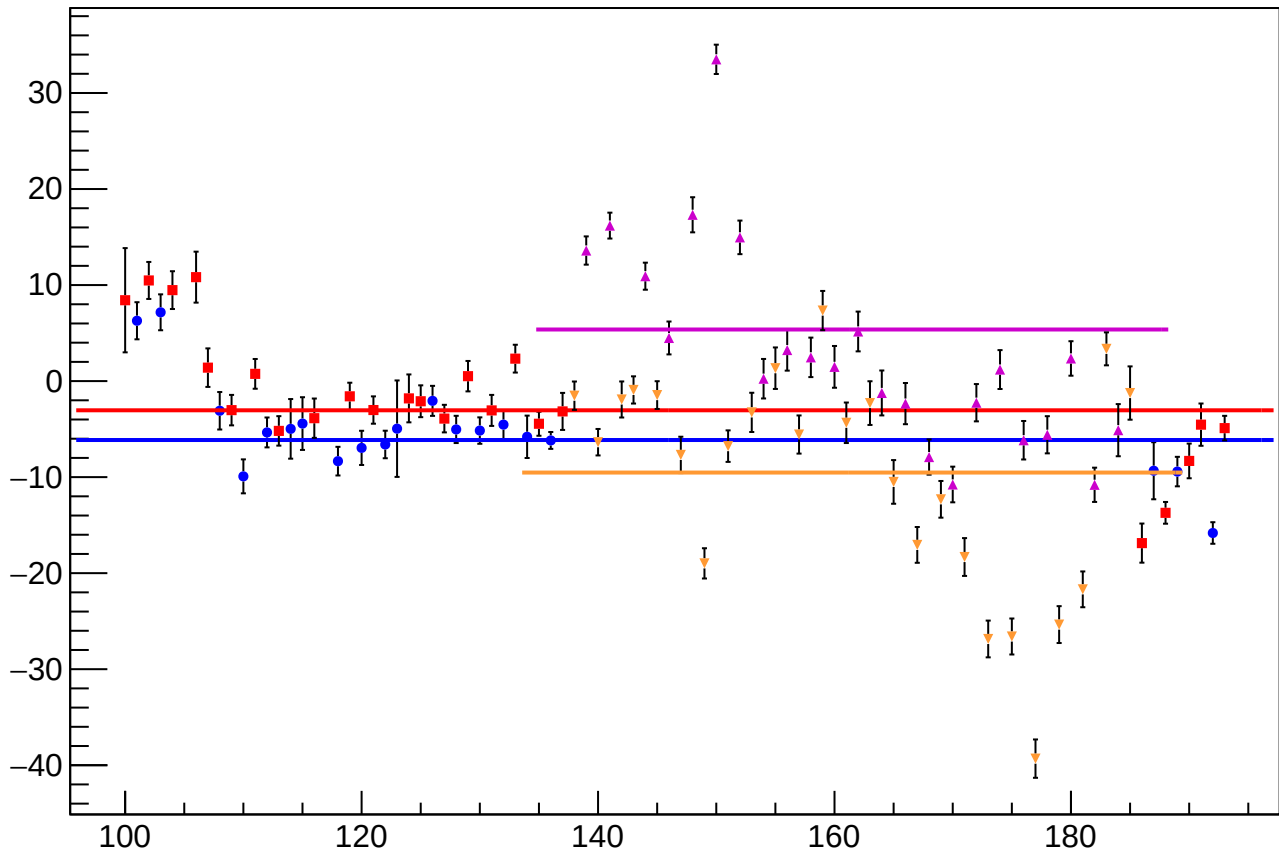
Right: 5323.881+/-0.976 χ^2/NDF : 6208658.4/43

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

Out: 2508.844+/-0.363 χ^2/NDF : 8434858.7/48

All: 2503.866+/-0.262 χ^2/NDF : 16412253.9/95

diff_bpm0l04Y_mean vs Slug, Sign Corrected



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

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

Right Out: -3.041 ± 0.338 χ^2/NDF : 302.7/23

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

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

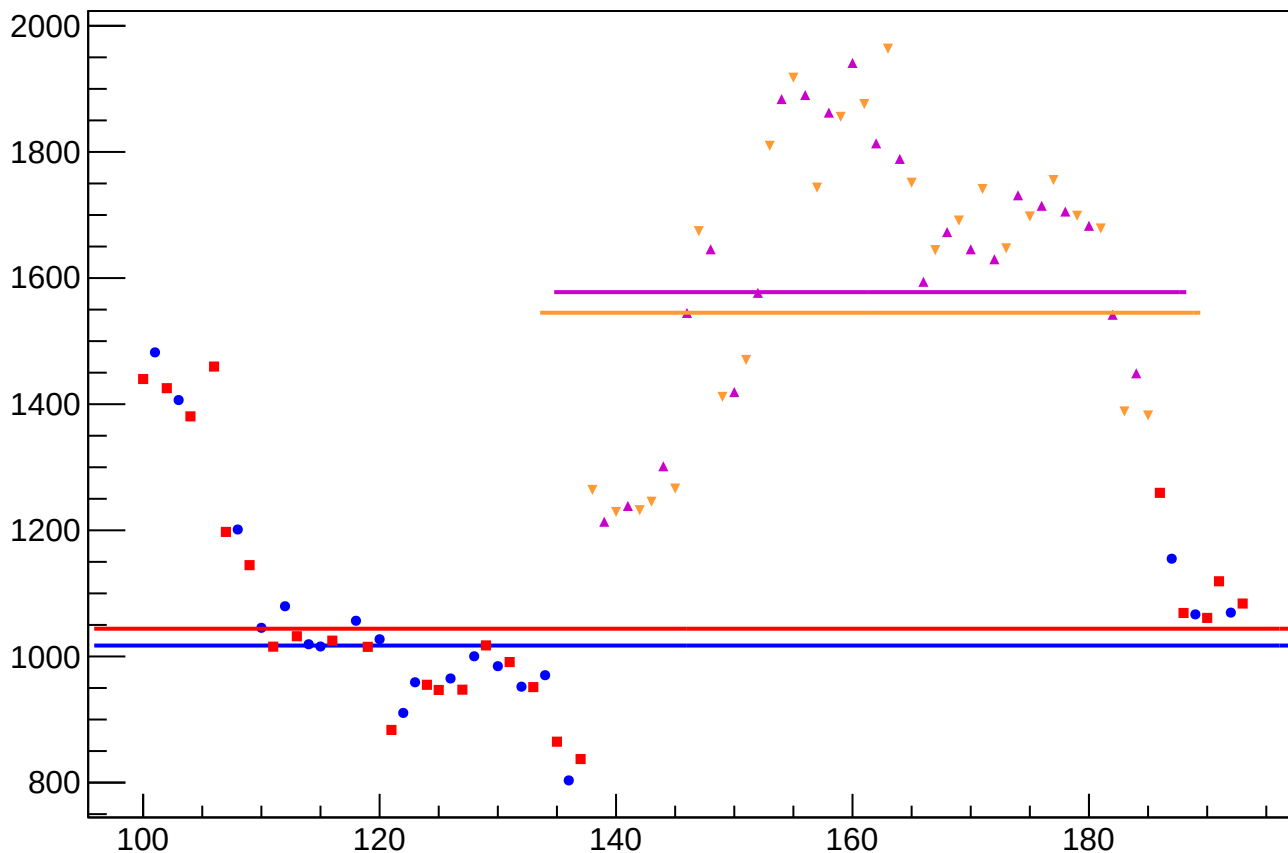
Right: -4.499 ± 0.246 χ^2/NDF : 533.5/43

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

Out: -6.037 ± 0.248 χ^2/NDF : 1356.7/48

All: -3.542 ± 0.180 χ^2/NDF : 3113.6/91

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1044.001 $\pm$ 0.239 χ^2 /NDF: 364900.1/23

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

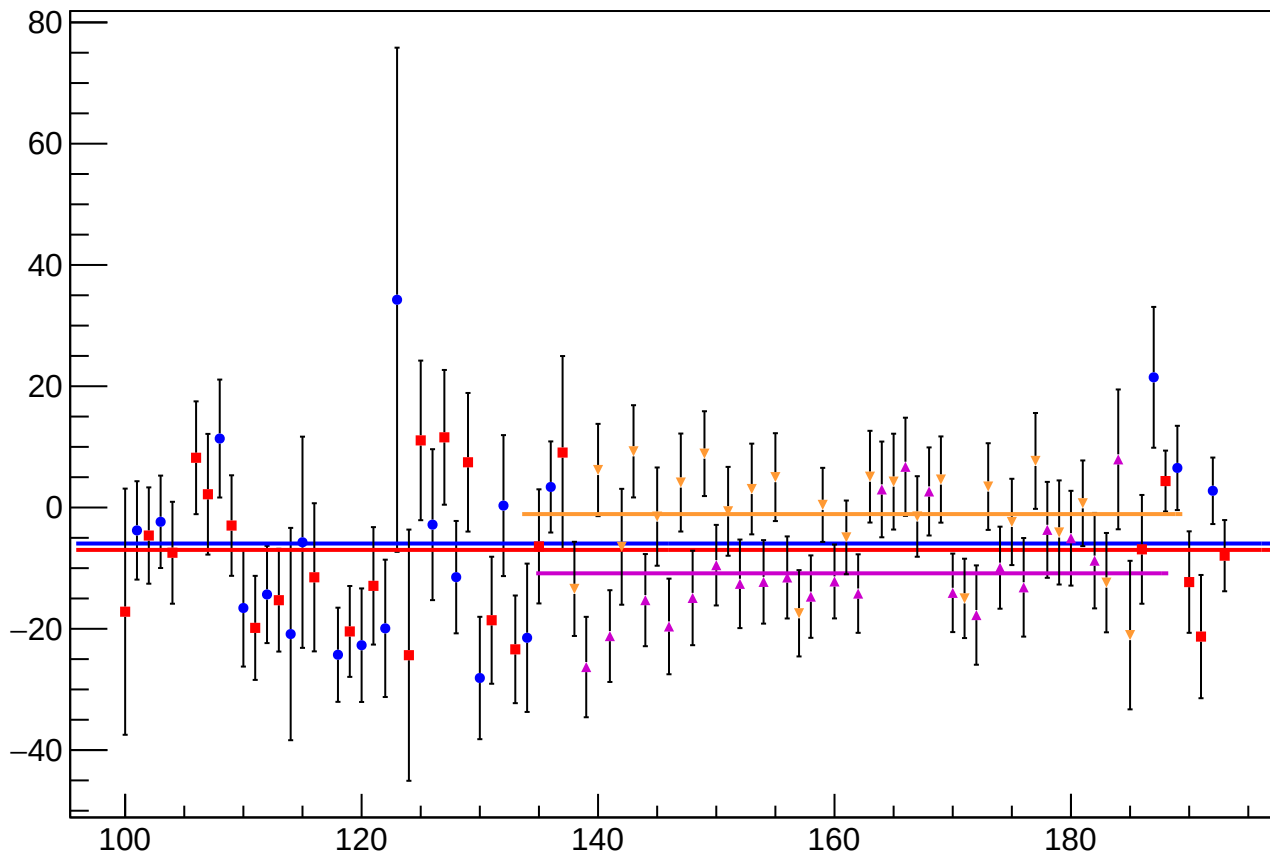
Right: 1031.418 $\pm$ 0.174 χ^2 /NDF: 745285.8/43

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

Out: 1275.560 $\pm$ 0.175 χ^2 /NDF: 3237219.1/48

All: 1277.111 $\pm$ 0.127 χ^2 /NDF: 6521816.2/93

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

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

Right Out: -6.989 $\pm$ 1.834 χ^2/NDF : 31.2/23

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

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

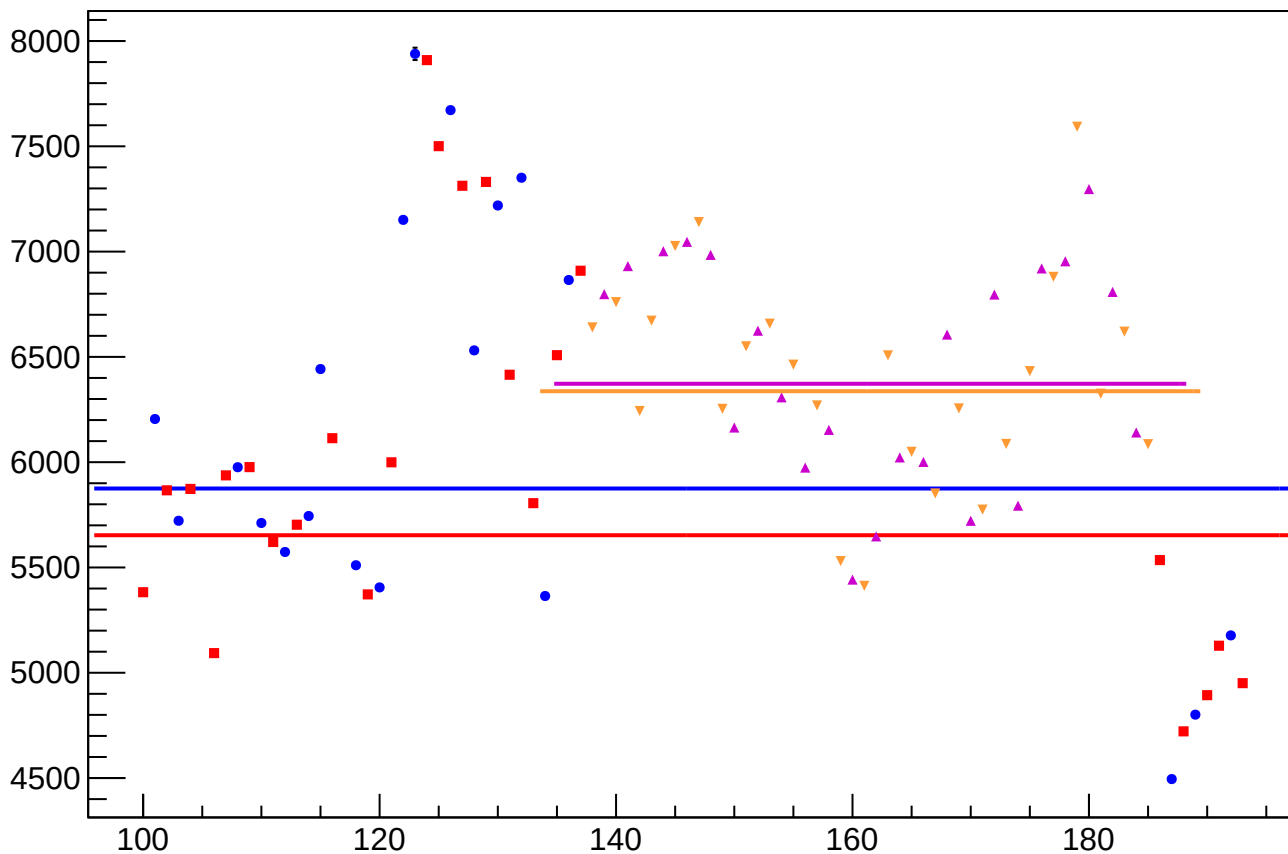
Right: -6.527 $\pm$ 1.373 χ^2/NDF : 69.1/43

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

Out: -3.426 $\pm$ 1.155 χ^2/NDF : 65.0/48

All: -6.070 $\pm$ 0.844 χ^2/NDF : 141.9/91

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

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

Right Out: 5653.062 $\pm$ 1.297 χ^2/NDF : 334009.0/23

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

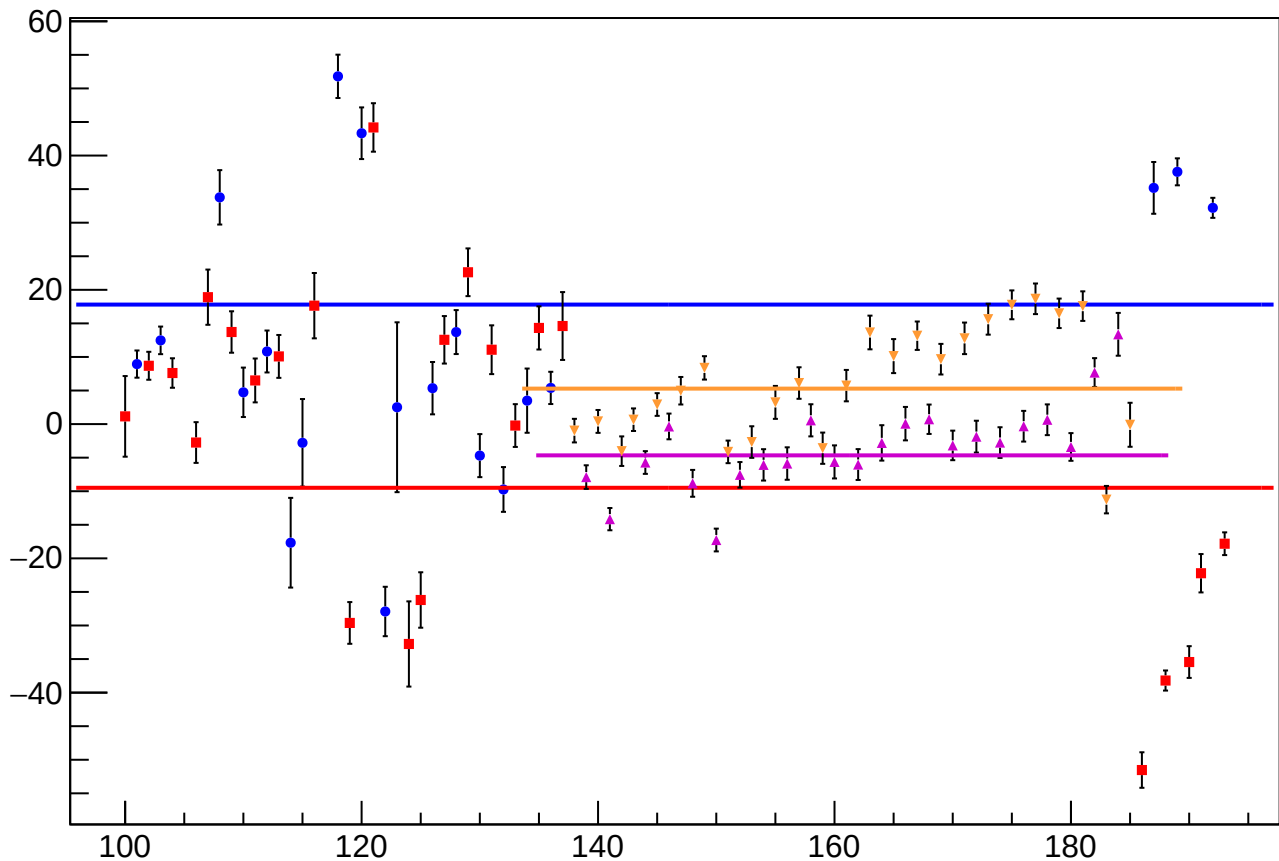
Right: 5750.625 $\pm$ 0.971 χ^2/NDF : 662669.9/43

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

Out: 6065.615 $\pm$ 0.817 χ^2/NDF : 724664.3/48

All: 6125.872 $\pm$ 0.597 χ^2/NDF : 1373659.8/91

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 17.802 $\pm$ 0.654 χ^2/NDF : 783.1/19

Left Out: 5.284 $\pm$ 0.421 χ^2/NDF : 366.1/24

Right Out: -9.488 $\pm$ 0.583 χ^2/NDF : 1657.9/23

Left In: -4.657 $\pm$ 0.443 χ^2/NDF : 196.5/22

Left: 0.574 $\pm$ 0.305 χ^2/NDF : 827.2/47

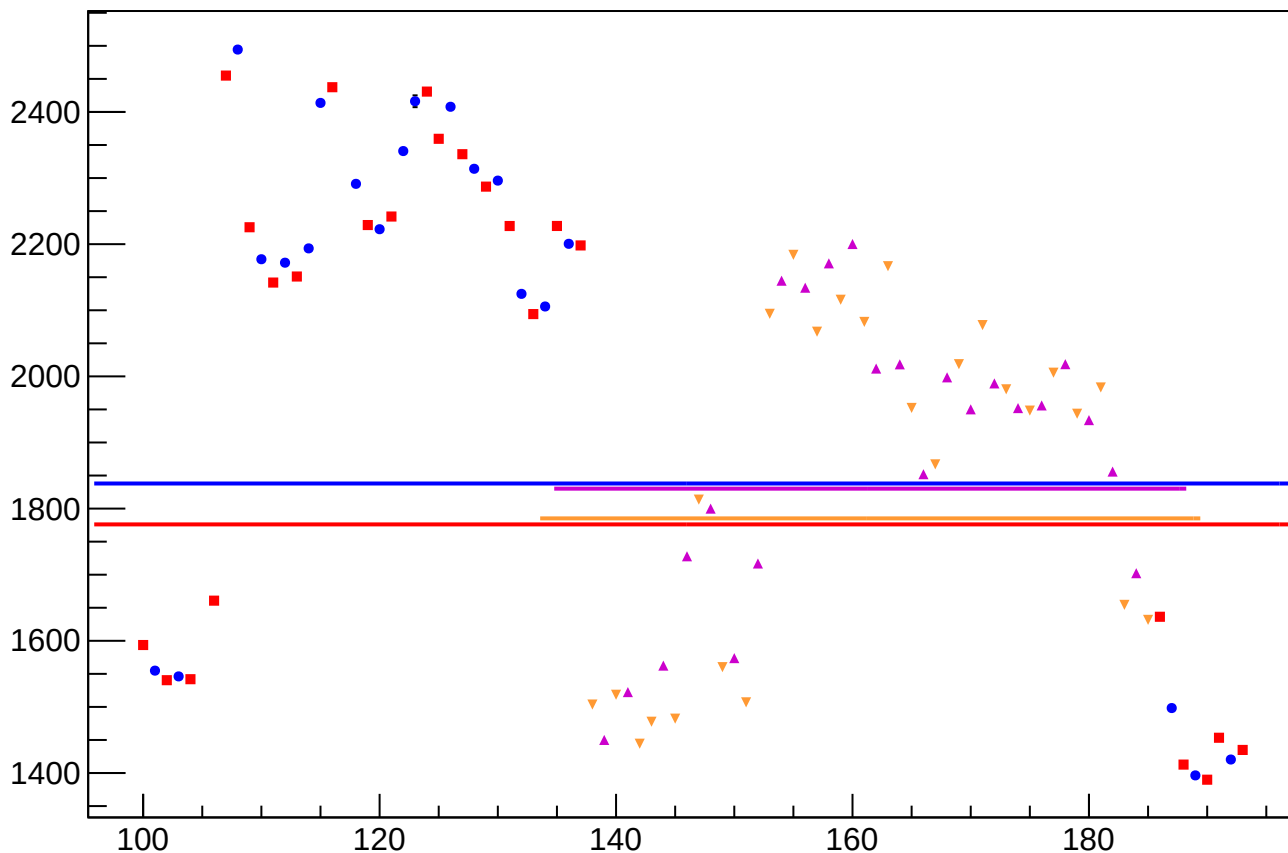
Right: 2.580 $\pm$ 0.435 χ^2/NDF : 3410.8/43

In: 2.407 $\pm$ 0.367 χ^2/NDF : 1786.8/42

Out: 0.223 $\pm$ 0.341 χ^2/NDF : 2446.4/48

All: 1.235 $\pm$ 0.250 χ^2/NDF : 4252.2/91

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1837.960 $\pm$ 0.463 χ^2 /NDF: 755072.5/19

Left Out: 1785.179 $\pm$ 0.297 χ^2 /NDF: 750628.1/24

Right Out: 1776.087 $\pm$ 0.412 χ^2 /NDF: 855651.9/23

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

Left: 1806.491 $\pm$ 0.216 χ^2 /NDF: 1269853.4/47

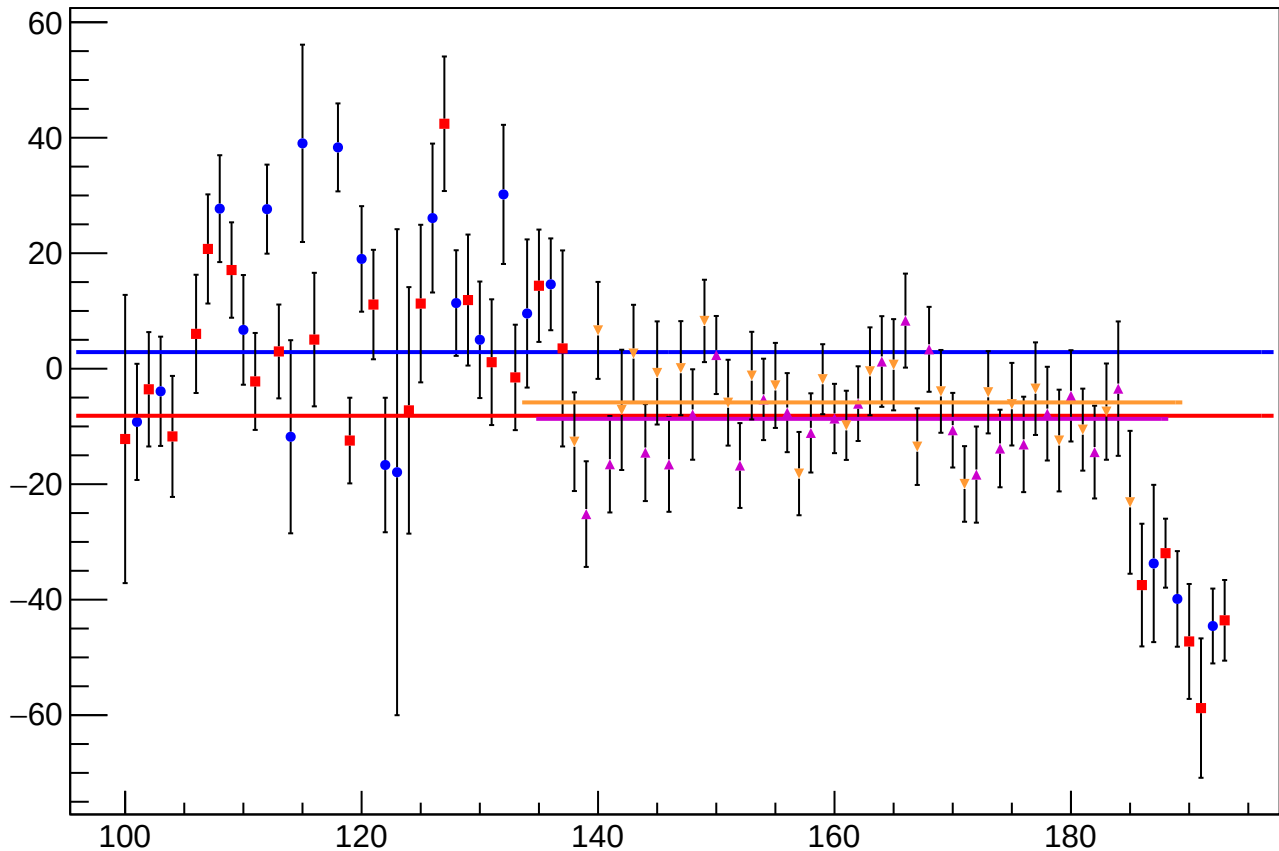
Right: 1803.448 $\pm$ 0.308 χ^2 /NDF: 1620694.2/43

In: 1832.613 $\pm$ 0.260 χ^2 /NDF: 1263659.1/42

Out: 1782.064 $\pm$ 0.241 χ^2 /NDF: 1606600.0/48

All: 1805.488 $\pm$ 0.177 χ^2 /NDF: 2890613.2/91

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.874 ± 2.208 χ^2/NDF : 151.9/19

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

Right Out: -8.151 ± 1.984 χ^2/NDF : 142.4/23

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

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

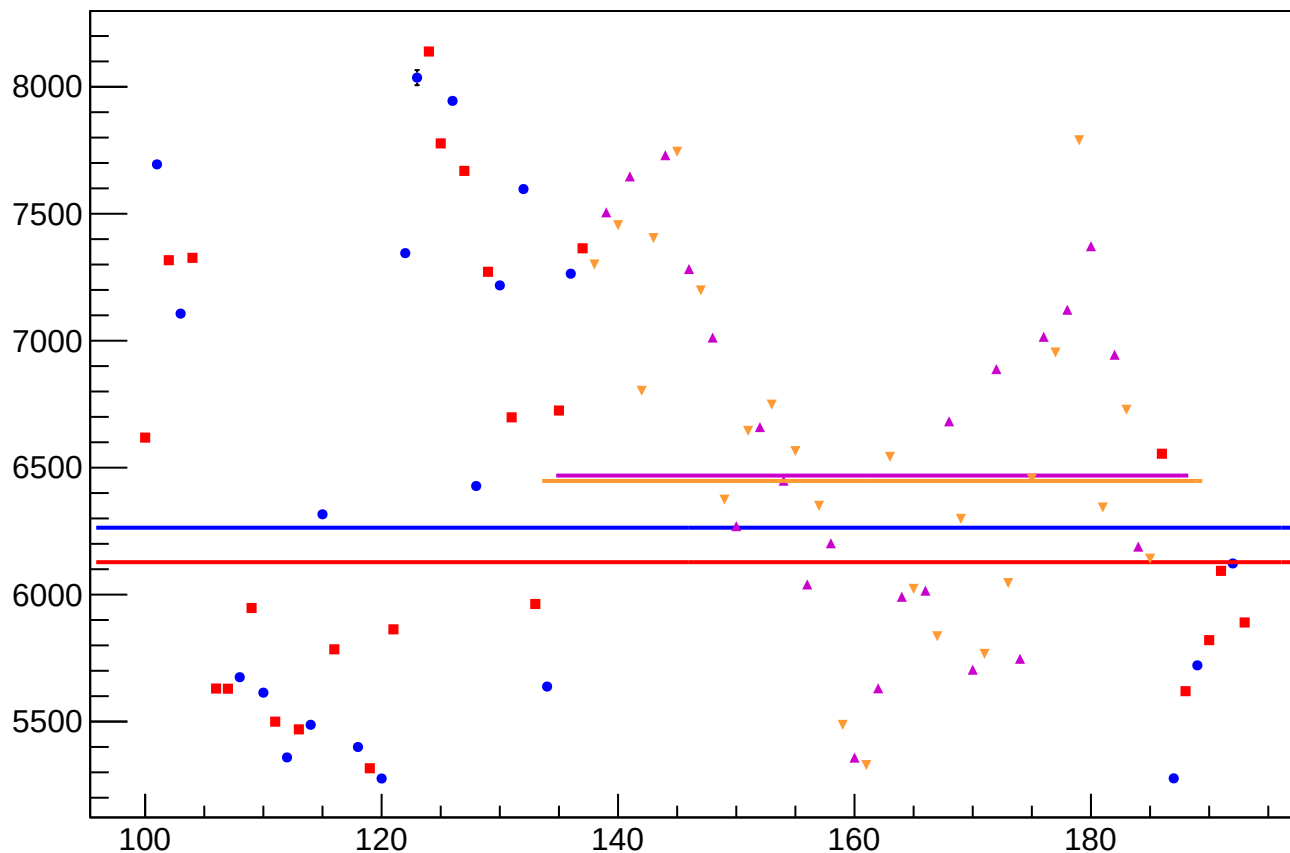
Right: -3.225 ± 1.476 χ^2/NDF : 308.1/43

In: -4.800 ± 1.280 χ^2/NDF : 192.0/42

Out: -6.694 ± 1.206 χ^2/NDF : 166.6/48

All: -5.803 ± 0.878 χ^2/NDF : 359.8/91

diff_bpm0l06X_rms vs Slug, Sign Corrected



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

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

Right Out: 6127.732 $\pm$ 1.403 χ^2/NDF : 267128.2/23

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

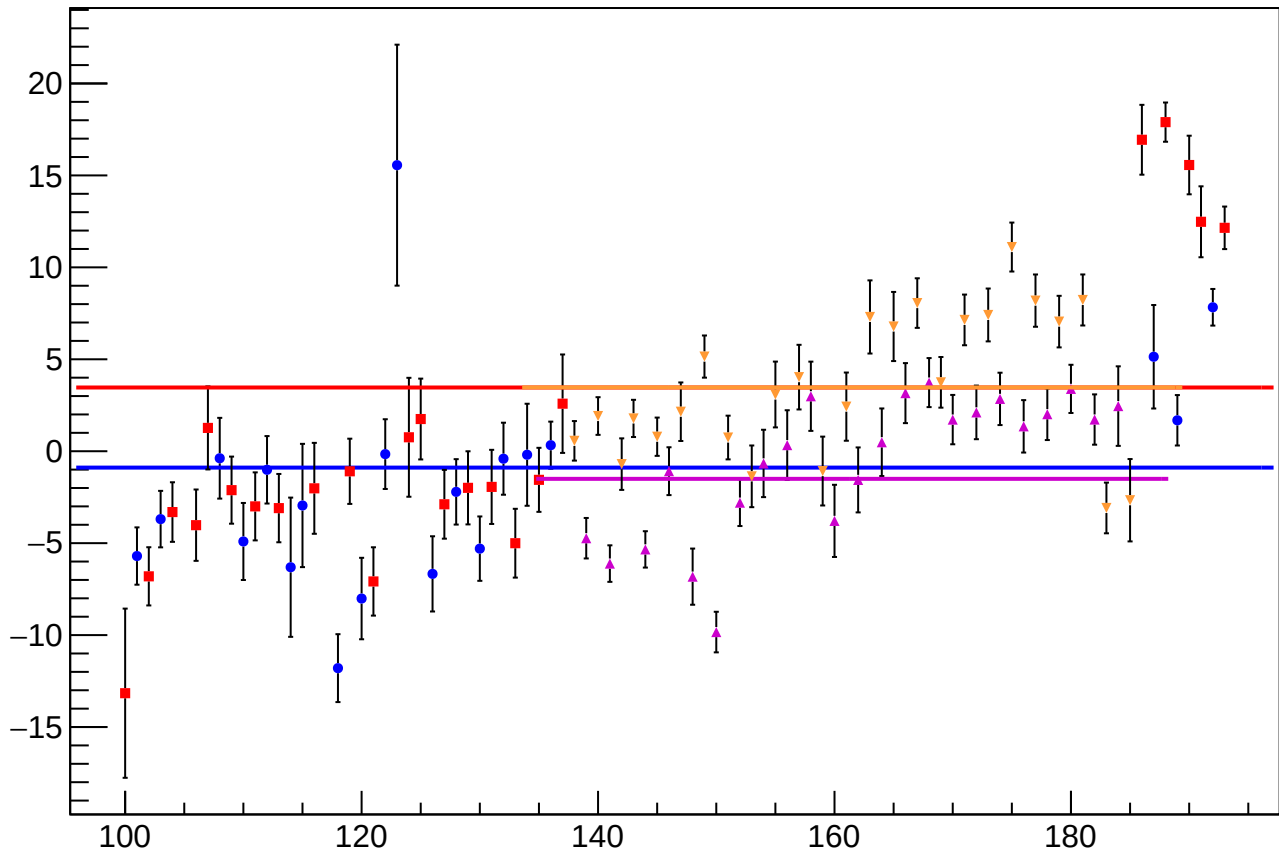
Right: 6188.418 $\pm$ 1.044 χ^2/NDF : 580320.2/43

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

Out: 6329.566 $\pm$ 0.853 χ^2/NDF : 671598.1/48

All: 6362.645 $\pm$ 0.621 χ^2/NDF : 1378617.9/91

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

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

Right Out: 3.466±/0.369 χ^2/NDF : 591.9/23

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

Left: 1.109±/0.200 χ^2/NDF : 532.4/47

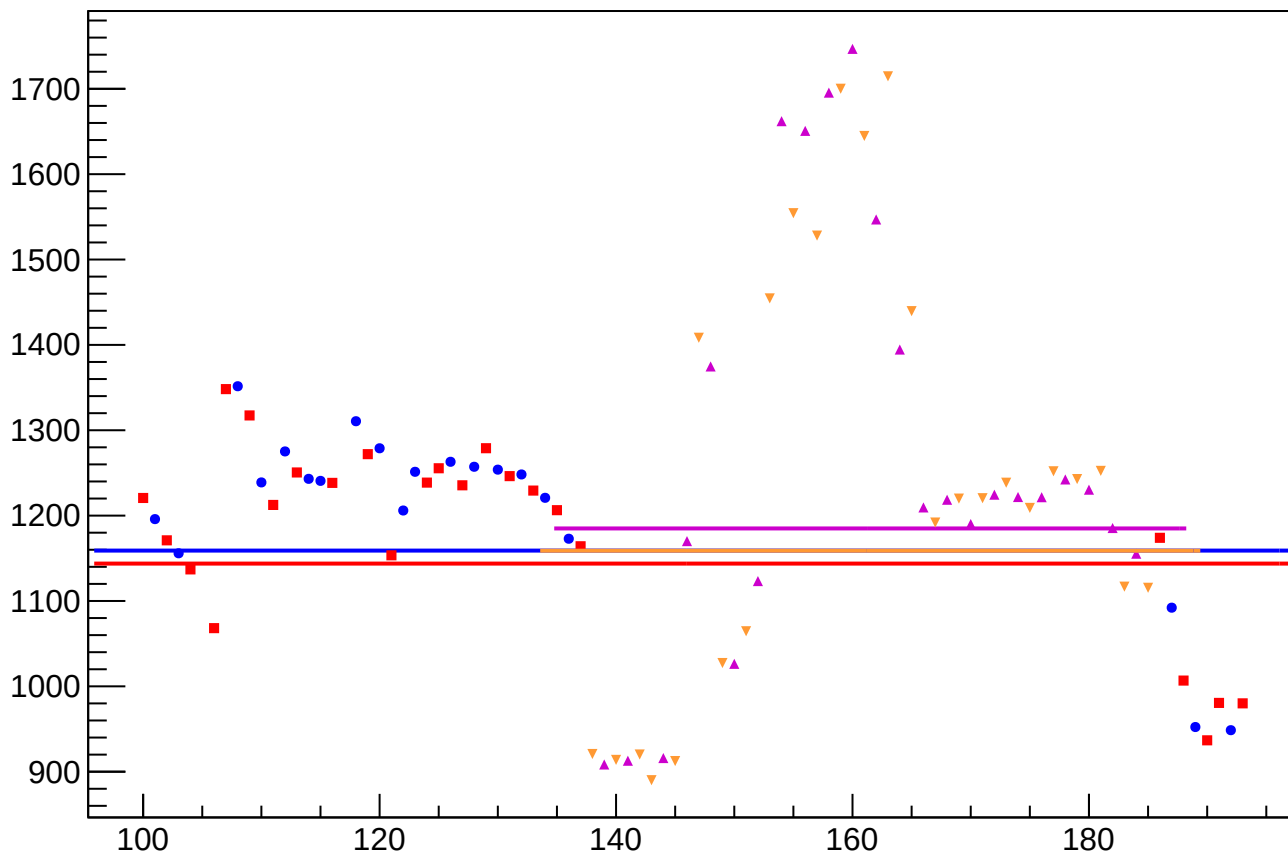
Right: 1.495±/0.273 χ^2/NDF : 826.4/43

In: -1.295±/0.236 χ^2/NDF :375.5/42

Out: 3.469±/0.221 χ^2/NDF :767.9/48

All: 1.244±/0.161 χ^2/NDF : 1360.1/91

diff_bpm0l06Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1143.796 $\pm$ 0.261 χ^2/NDF : 216132.1/23

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

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

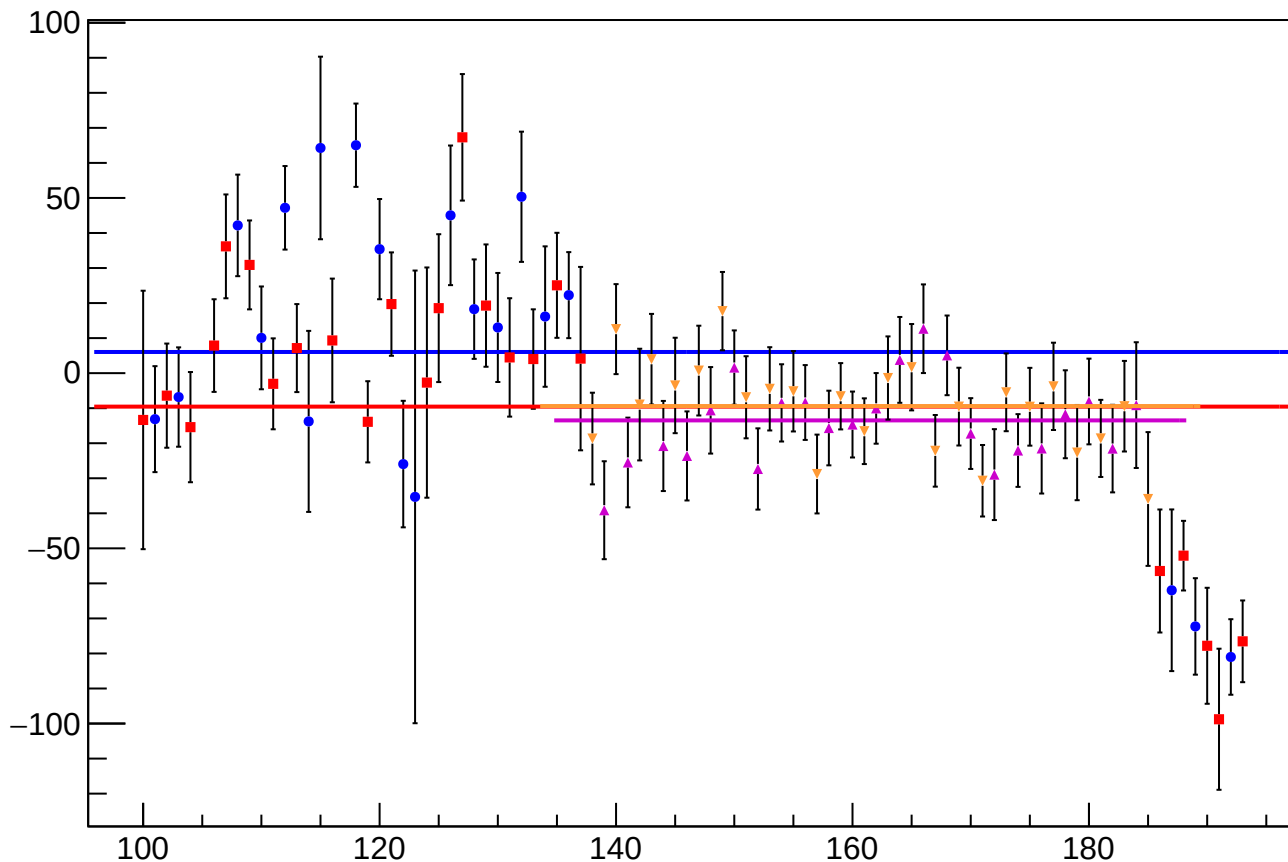
Right: 1150.687 $\pm$ 0.193 χ^2/NDF : 426503.6/43

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

Out: 1153.465 $\pm$ 0.156 χ^2/NDF : 1628701.9/48

All: 1164.069 $\pm$ 0.114 χ^2/NDF : 3043206.9/91

diff_bpm0l07X_mean vs Slug, Sign Corrected



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

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

Right Out: -9.554 ± 3.100 $\chi^2/\text{NDF}: 153.9/23$

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

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

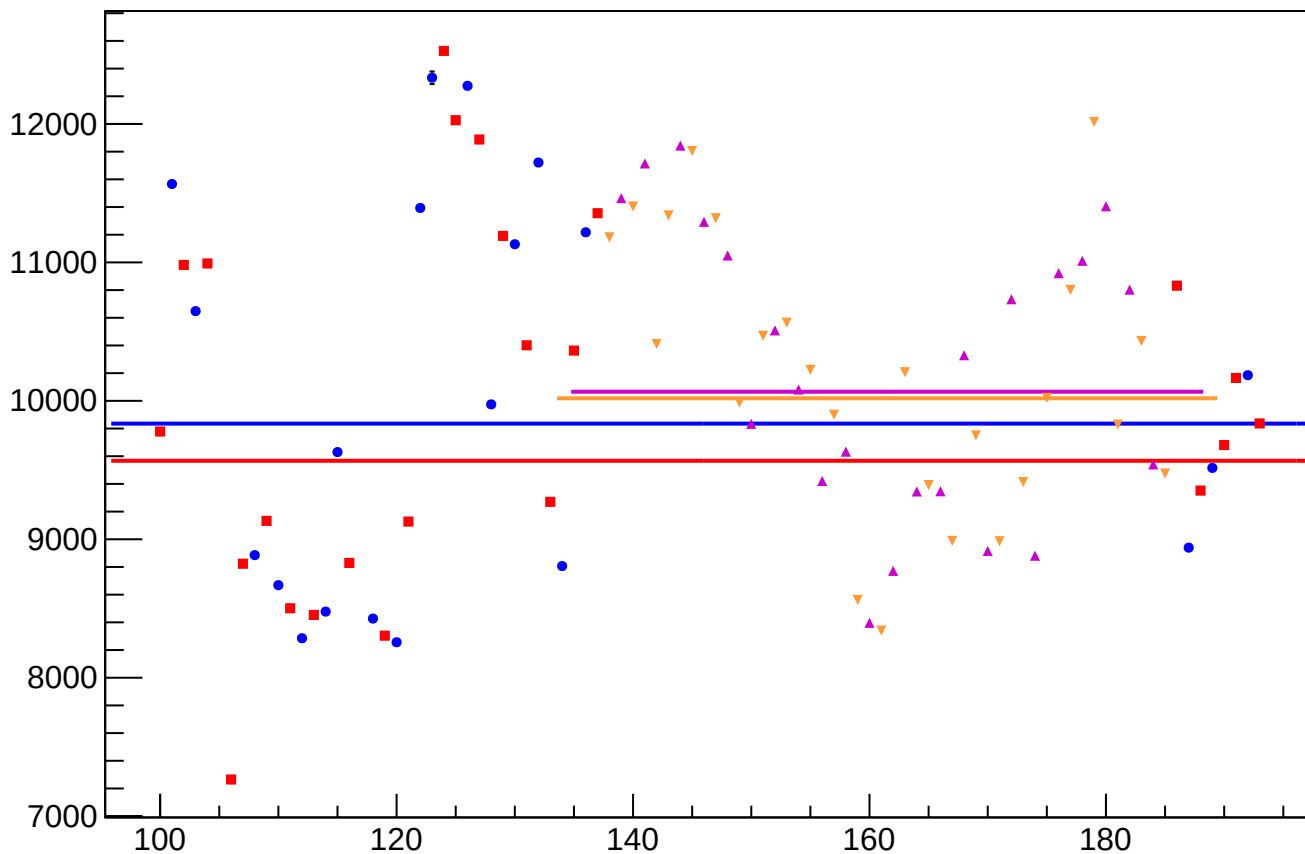
Right: -2.615 ± 2.309 $\chi^2/\text{NDF}: 342.5/43$

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

Out: -9.455 ± 1.877 $\chi^2/\text{NDF}: 180.1/48$

All: -8.300 ± 1.367 $\chi^2/\text{NDF}: 401.1/91$

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

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

Right Out: 9567.081 $\pm$ 2.192 χ^2/NDF : 289706.9/23

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

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

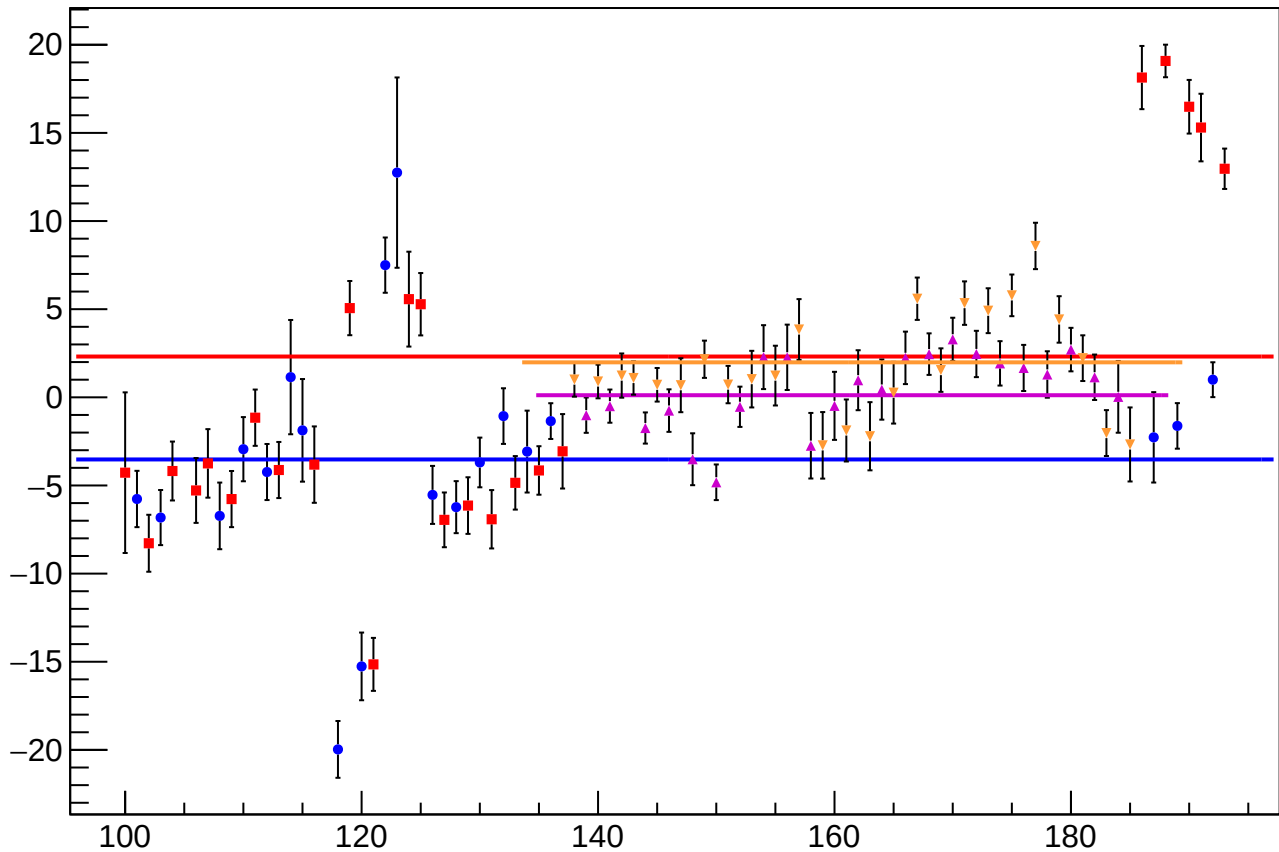
Right: 9686.560 $\pm$ 1.633 χ^2/NDF : 561697.7/43

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

Out: 9853.021 $\pm$ 1.327 χ^2/NDF : 661114.3/48

All: 9917.002 $\pm$ 0.967 χ^2/NDF : 1295157.1/91

diff_bpm0l07Y_mean vs Slug, Sign Corrected



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

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

Right Out: 2.314 ± 0.327 χ^2/NDF : 1056.0/23

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

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

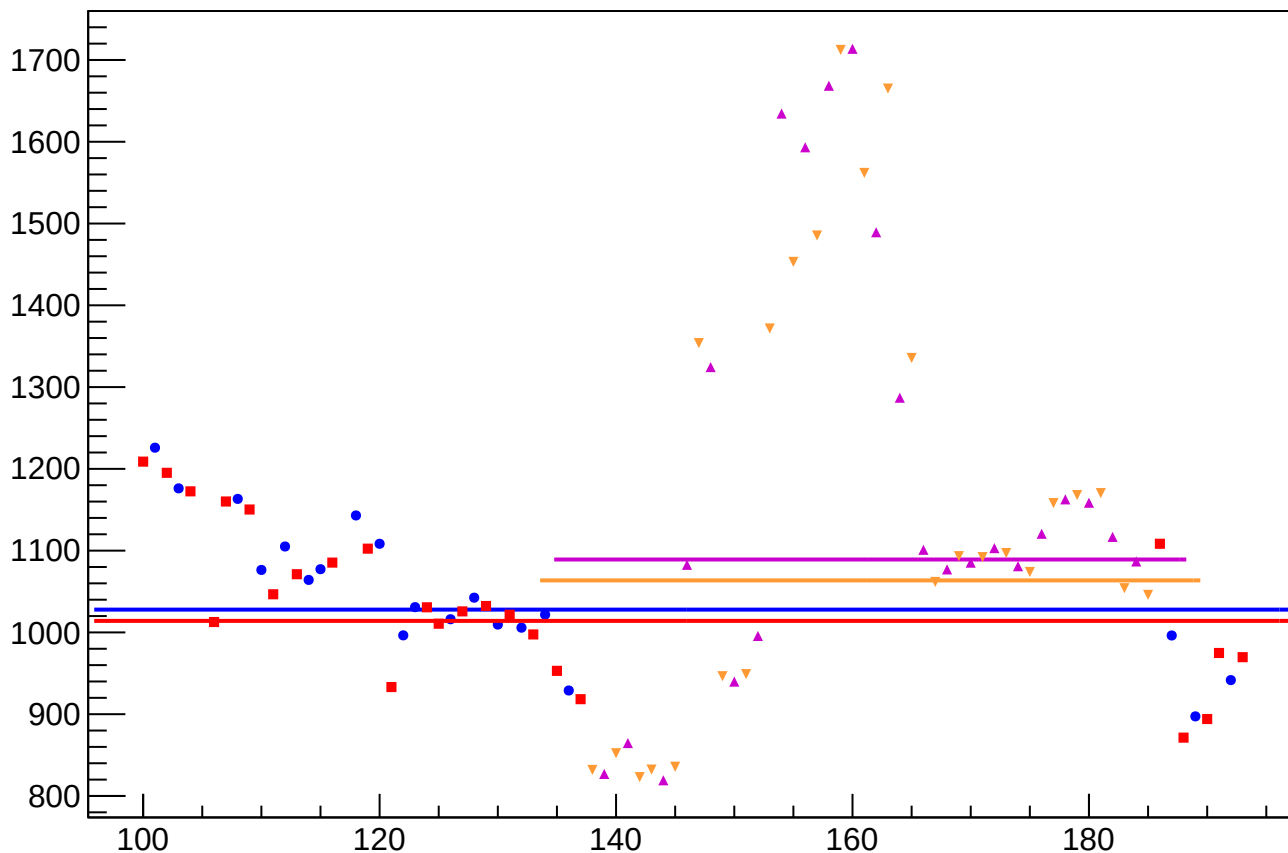
Right: -0.329 ± 0.242 χ^2/NDF : 1448.1/43

In: -1.188 ± 0.215 χ^2/NDF : 381.0/42

Out: 2.110 ± 0.201 χ^2/NDF : 1157.9/48

All: 0.573 ± 0.147 χ^2/NDF : 1664.4/91

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1014.097 $\pm$ 0.231 χ^2 /NDF: 168996.1/23

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

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

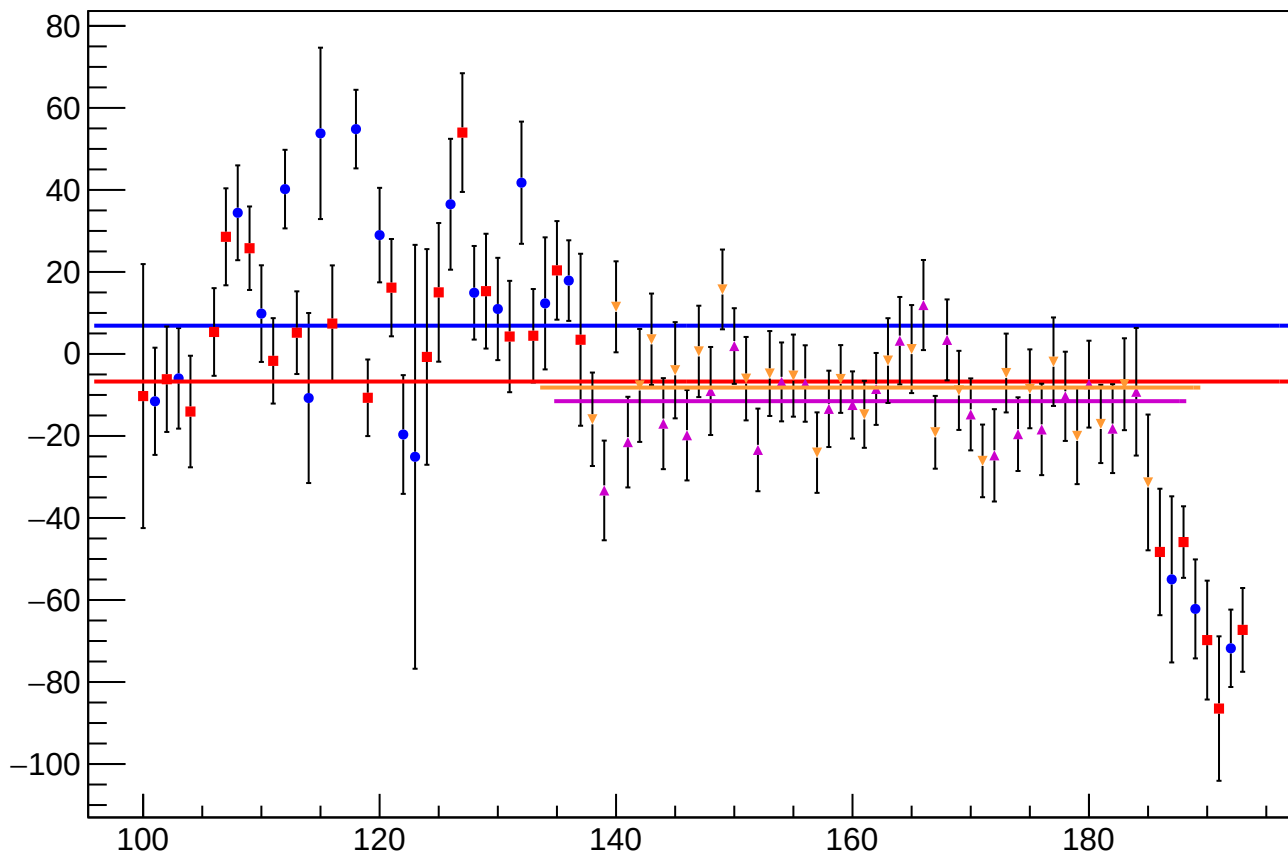
Right: 1020.338 $\pm$ 0.171 χ^2 /NDF: 307069.2/43

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

Out: 1044.873 $\pm$ 0.142 χ^2 /NDF: 1814928.1/48

All: 1055.257 $\pm$ 0.104 χ^2 /NDF: 3430662.4/91

diff_bpm0l08X_mean vs Slug, Sign Corrected



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

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

Right Out: -6.725 ± 2.560 $\chi^2/\text{NDF}: 157.9/23$

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

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

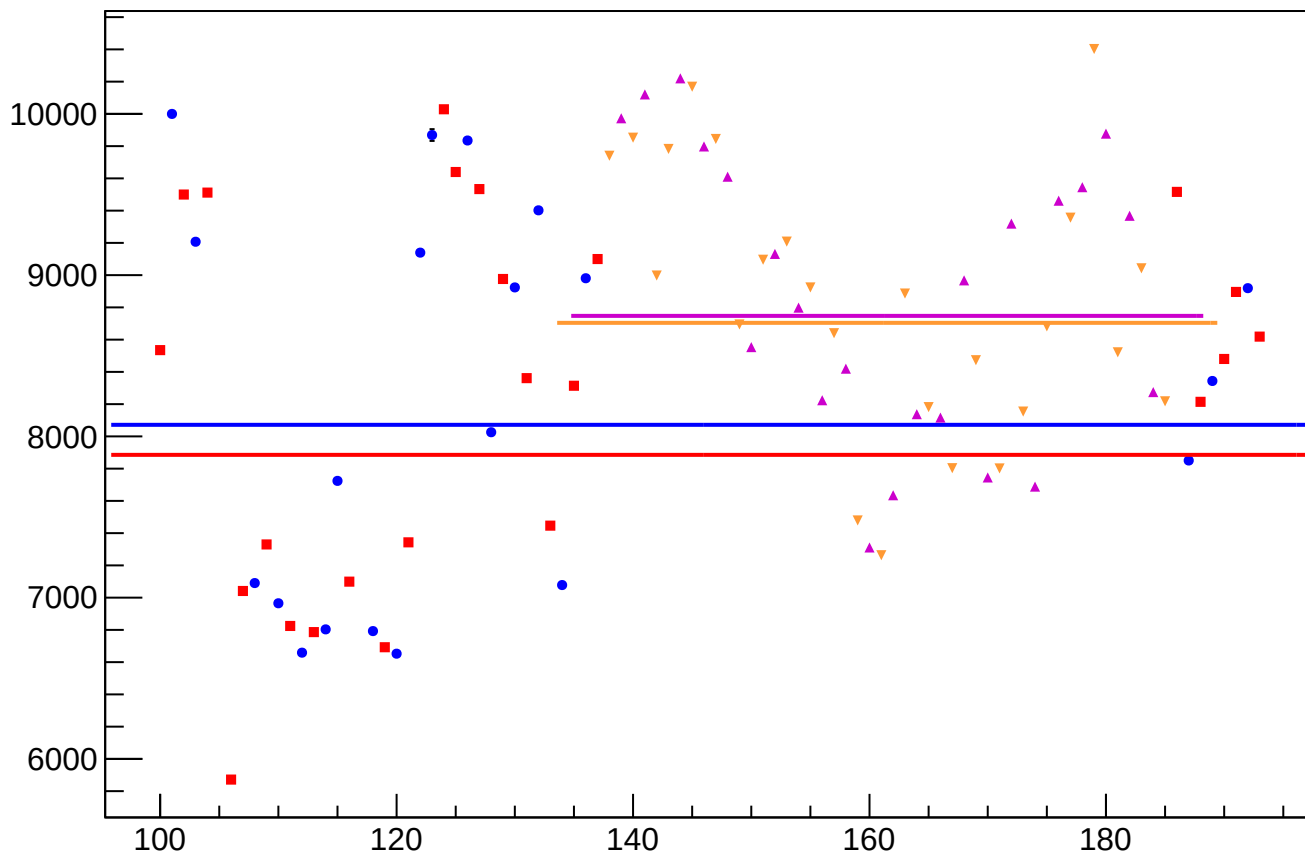
Right: -0.631 ± 1.903 $\chi^2/\text{NDF}: 352.1/43$

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

Out: -7.621 ± 1.600 $\chi^2/\text{NDF}: 184.2/48$

All: -6.360 ± 1.165 $\chi^2/\text{NDF}: 415.1/91$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8071.742 ± 2.012 $\chi^2/\text{NDF}: 315330.5/19$

Left Out: 8704.193 ± 1.449 $\chi^2/\text{NDF}: 332364.3/24$

Right Out: 7885.499 ± 1.810 $\chi^2/\text{NDF}: 368534.2/23$

Left In: 8747.415 ± 1.501 $\chi^2/\text{NDF}: 347110.4/22$

Left: 8725.041 ± 1.042 $\chi^2/\text{NDF}: 679904.0/47$

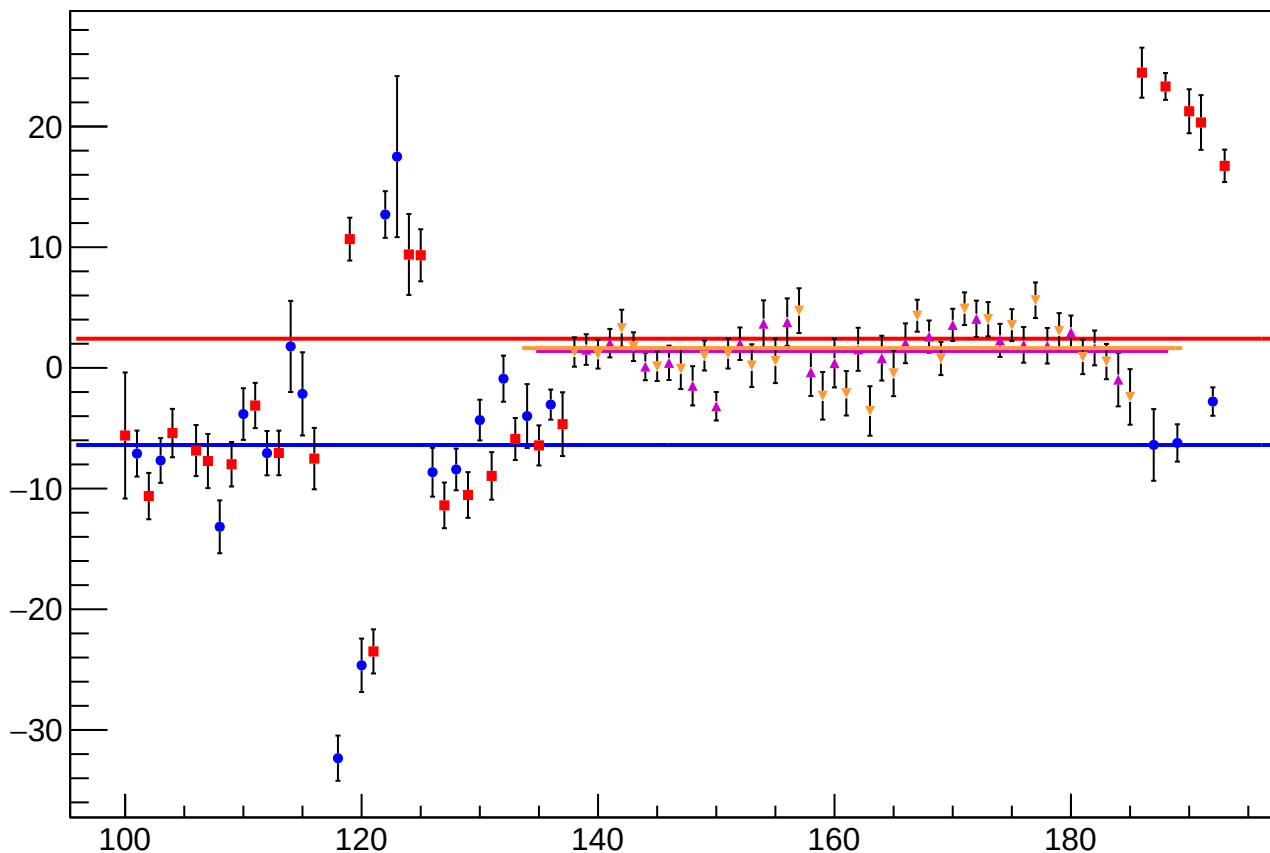
Right: 7968.818 ± 1.346 $\chi^2/\text{NDF}: 688600.7/43$

In: 8505.859 ± 1.203 $\chi^2/\text{NDF}: 734909.7/42$

Out: 8384.567 ± 1.131 $\chi^2/\text{NDF}: 825596.1/48$

All: 8441.480 ± 0.824 $\chi^2/\text{NDF}: 1565902.2/91$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.389 ± 0.428 χ^2/NDF : 418.3/19

Left Out: 1.639 ± 0.294 χ^2/NDF : 51.3/24

Right Out: 2.419 ± 0.387 χ^2/NDF : 1365.1/23

Left In: 1.404 ± 0.309 χ^2/NDF : 34.1/22

Left: 1.528 ± 0.213 χ^2/NDF : 85.8/47

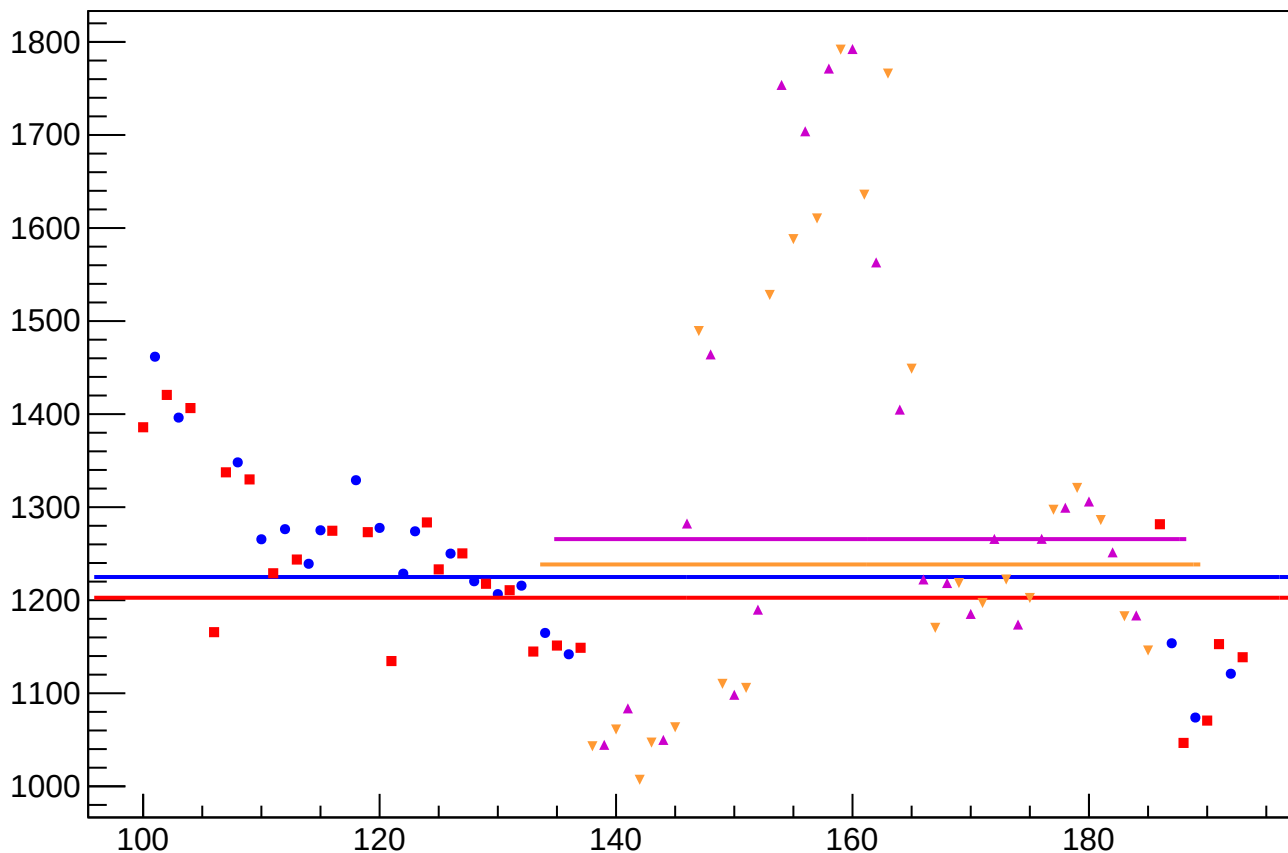
Right: -1.548 ± 0.287 χ^2/NDF : 2016.6/43

In: -1.269 ± 0.250 χ^2/NDF : 670.7/42

Out: 1.924 ± 0.234 χ^2/NDF : 1419.0/48

All: 0.436 ± 0.171 χ^2/NDF : 2176.5/91

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1202.659 ± 0.274 $\chi^2/\text{NDF}: 141584.9/23$

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

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

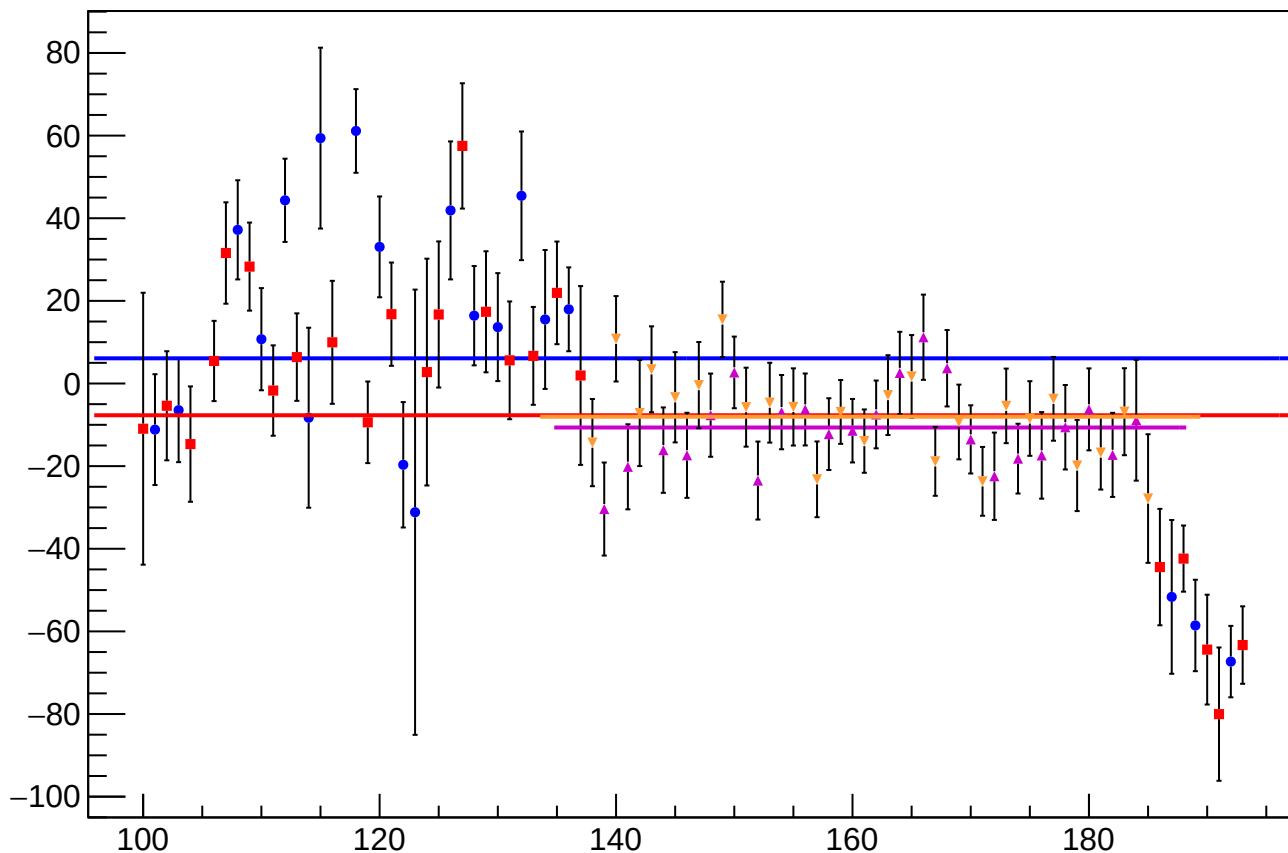
Right: 1212.692 ± 0.203 $\chi^2/\text{NDF}: 255312.9/43$

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

Out: 1225.374 ± 0.165 $\chi^2/\text{NDF}: 1117600.9/48$

All: 1237.641 ± 0.121 $\chi^2/\text{NDF}: 2097231.5/91$

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 6.096 ± 2.902 χ^2/NDF : 197.7/19

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

Right Out: -7.687 ± 2.565 χ^2/NDF : 161.9/23

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

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

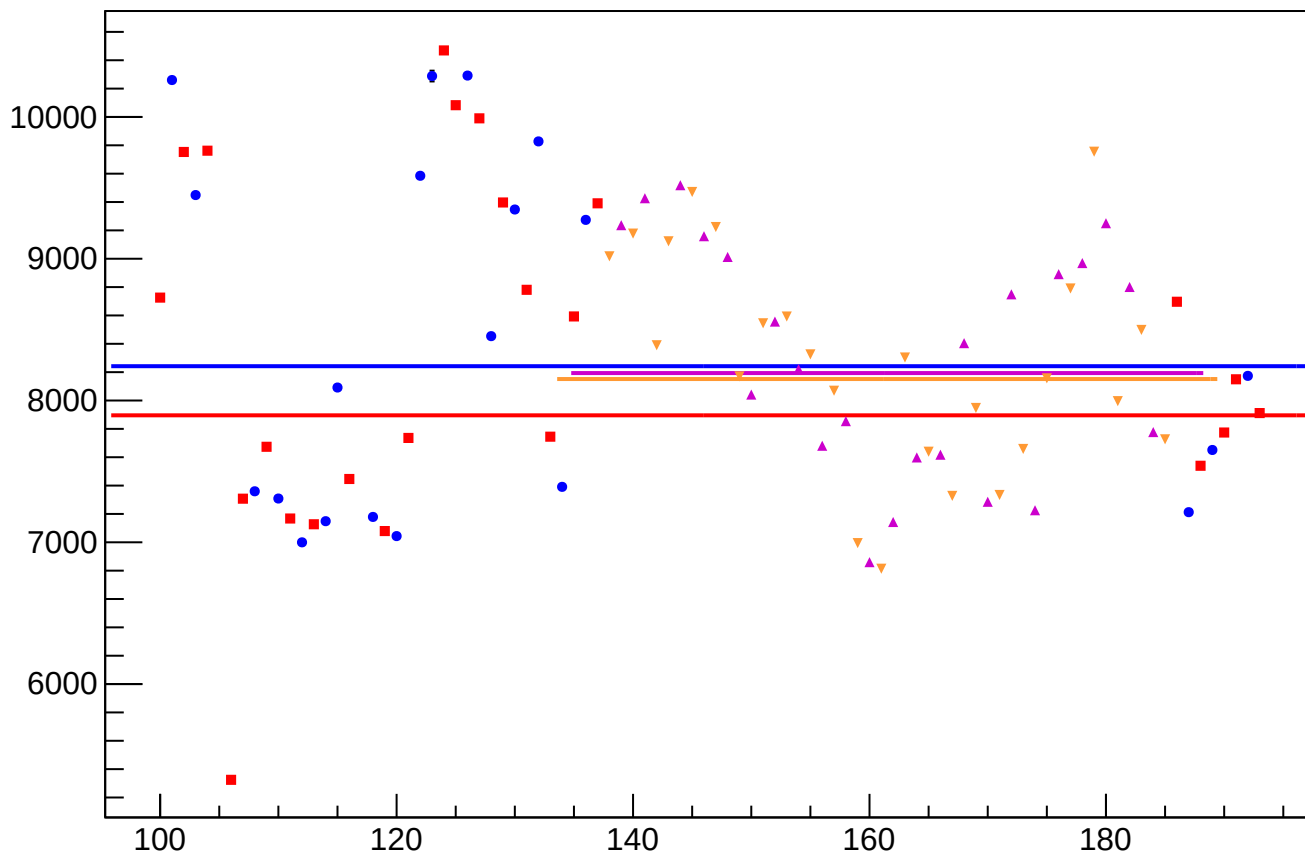
Right: -1.642 ± 1.922 χ^2/NDF : 372.2/43

In: -5.305 ± 1.640 χ^2/NDF : 241.8/42

Out: -7.915 ± 1.536 χ^2/NDF : 188.2/48

All: -6.695 ± 1.121 χ^2/NDF : 431.3/91

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8242.073 ± 2.052 $\chi^2/\text{NDF}: 284924.4/19$

Left Out: 8151.489 ± 1.356 $\chi^2/\text{NDF}: 321803.3/24$

Right Out: 7895.553 ± 1.814 $\chi^2/\text{NDF}: 399697.4/23$

Left In: 8193.636 ± 1.405 $\chi^2/\text{NDF}: 338377.6/22$

Left: 8171.814 ± 0.976 $\chi^2/\text{NDF}: 660646.6/47$

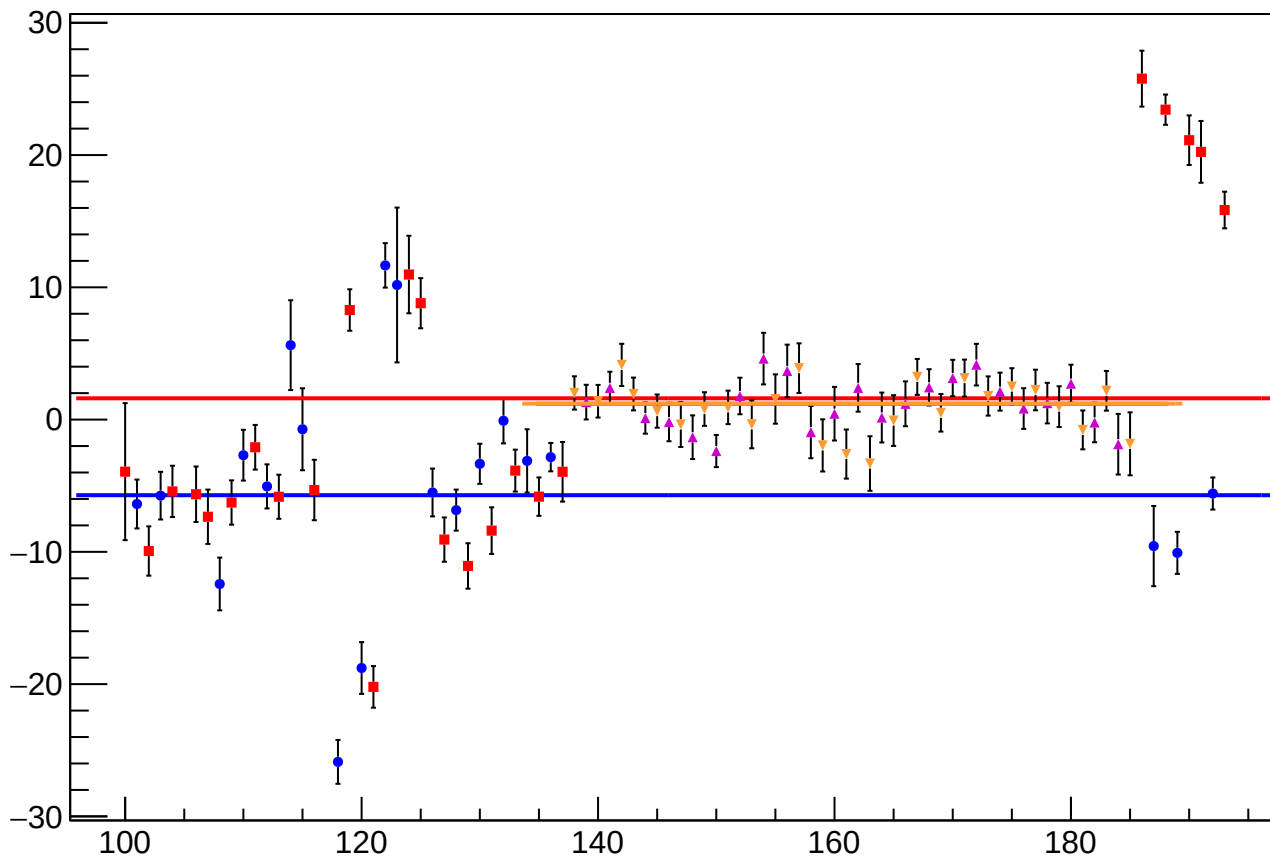
Right: 8047.538 ± 1.359 $\chi^2/\text{NDF}: 700630.6/43$

In: 8209.102 ± 1.160 $\chi^2/\text{NDF}: 623681.3/42$

Out: 8059.699 ± 1.086 $\chi^2/\text{NDF}: 734270.7/48$

All: 8129.528 ± 0.793 $\chi^2/\text{NDF}: 1366794.2/91$

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

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

Right Out: 1.609 ± 0.363 χ^2/NDF : 1317.6/23

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

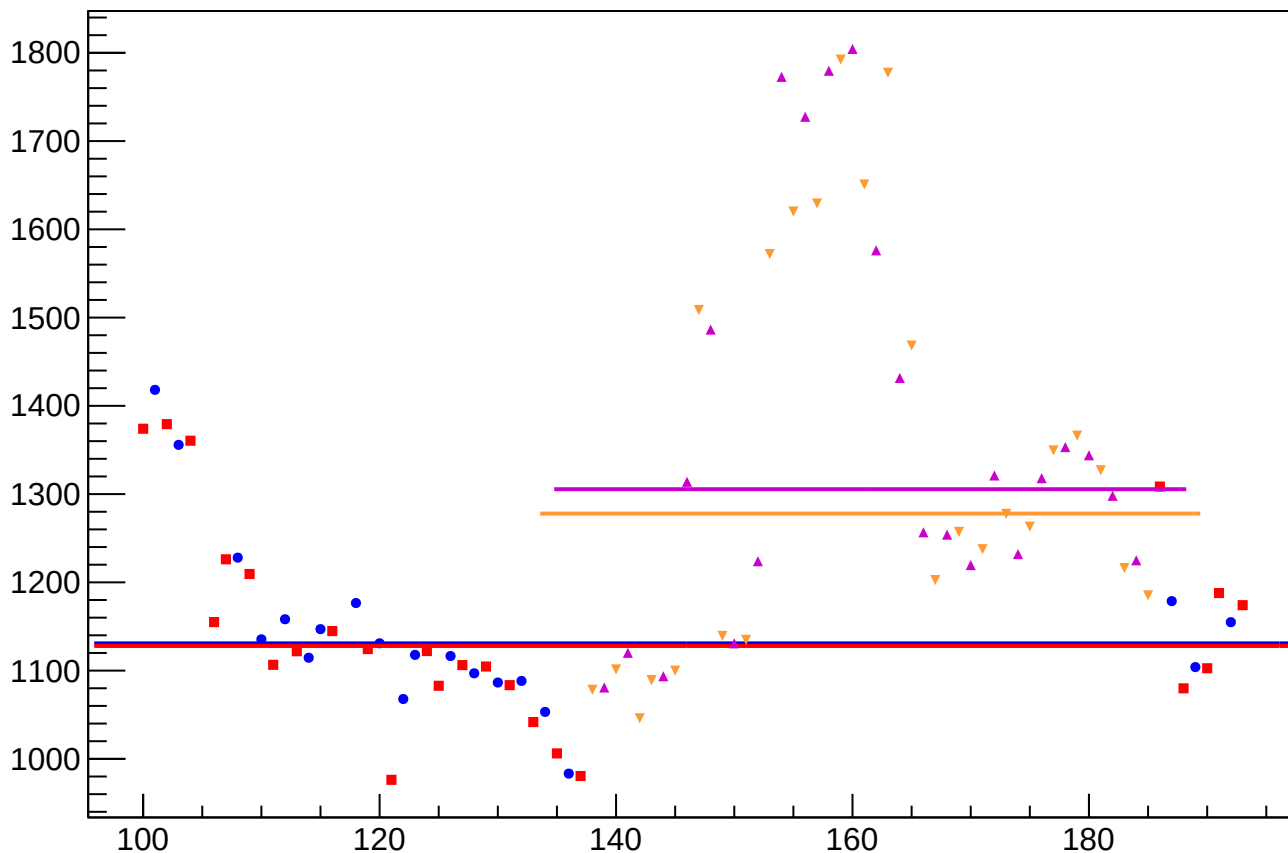
Right: -1.746 ± 0.267 χ^2/NDF : 1869.8/43

In: -1.522 ± 0.248 χ^2/NDF : 582.8/42

Out: 1.370 ± 0.232 χ^2/NDF : 1348.3/48

All: 0.016 ± 0.170 χ^2/NDF : 2003.5/91

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1130.880 $\pm$ 0.279 χ^2 /NDF: 134976.0/19

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

Right Out: 1127.935 $\pm$ 0.257 χ^2 /NDF: 151964.1/23

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

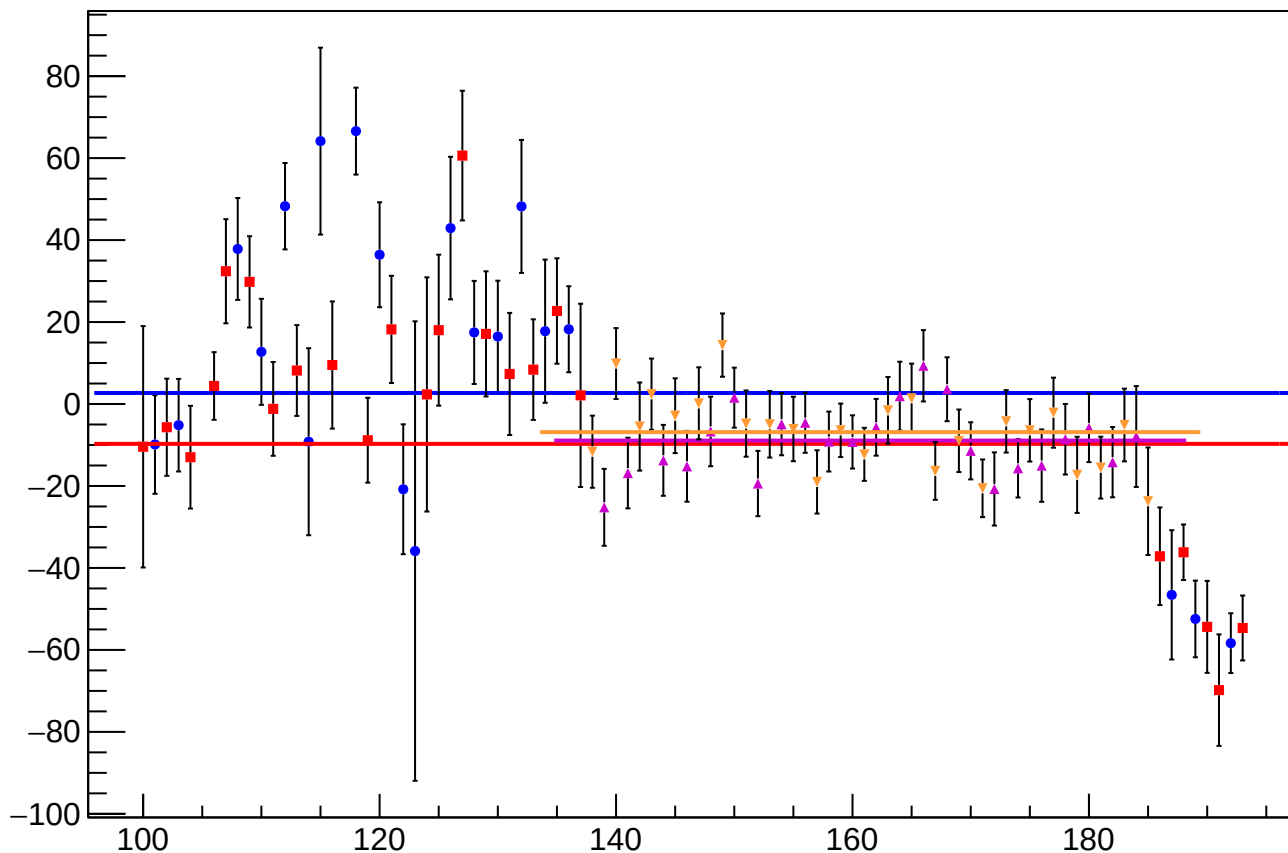
Right: 1129.284 $\pm$ 0.189 χ^2 /NDF: 287000.3/43

In: 1236.846 $\pm$ 0.175 χ^2 /NDF: 1132507.3/42

Out: 1216.508 $\pm$ 0.164 χ^2 /NDF: 1231469.6/48

All: 1226.026 $\pm$ 0.120 χ^2 /NDF: 2371144.0/93

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 2.695 ± 2.831 χ^2/NDF : 215.4/19

Left Out: -6.854 ± 1.616 χ^2/NDF : 28.7/24

Right Out: -9.725 ± 2.436 χ^2/NDF : 159.5/23

Left In: -8.923 ± 1.674 χ^2/NDF : 21.8/22

Left: -7.852 ± 1.163 χ^2/NDF : 51.3/47

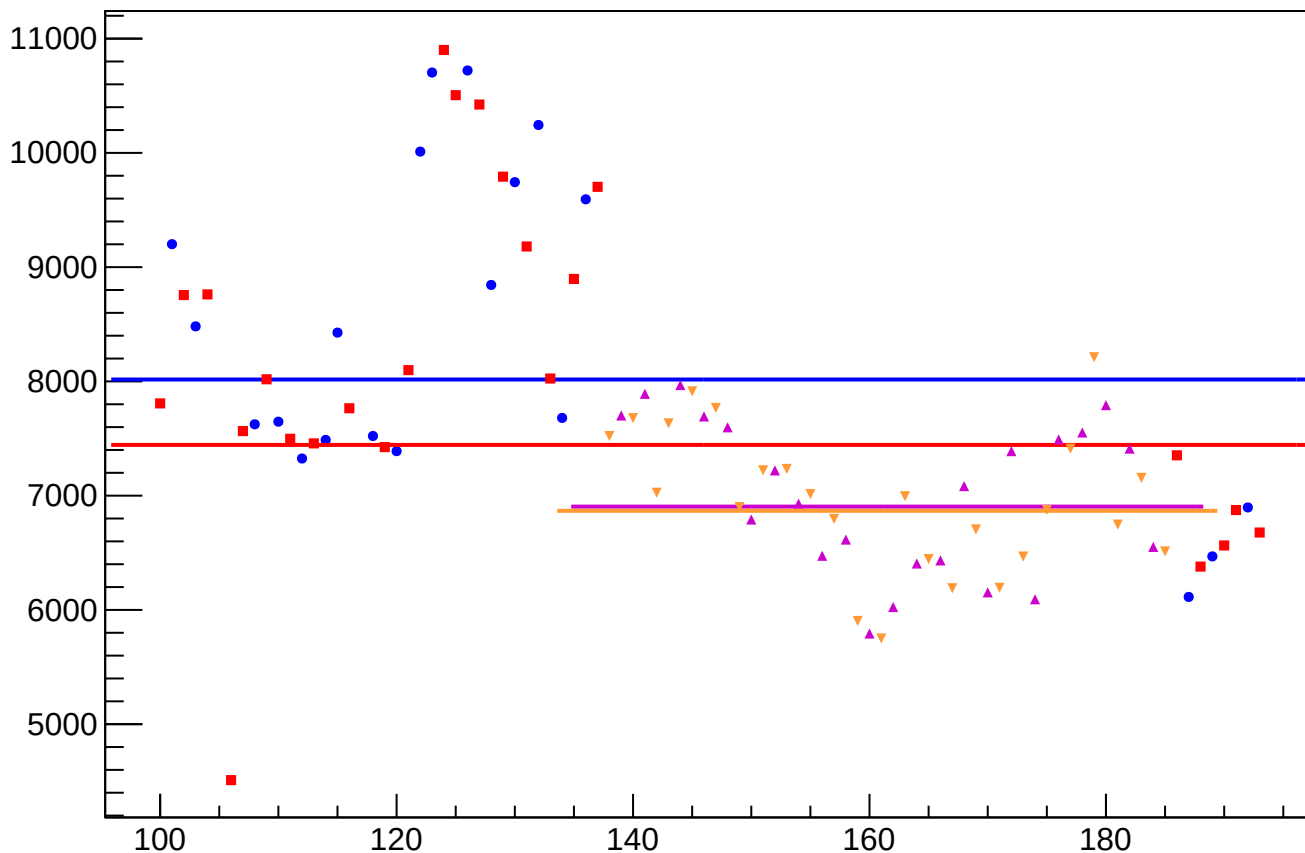
Right: -4.441 ± 1.847 χ^2/NDF : 386.0/43

In: -5.912 ± 1.441 χ^2/NDF : 249.7/42

Out: -7.731 ± 1.346 χ^2/NDF : 189.2/48

All: -6.883 ± 0.984 χ^2/NDF : 439.7/91

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8016.566 ± 2.002 χ^2/NDF : 385984.8/19

Left Out: 6867.371 ± 1.142 χ^2/NDF : 306895.0/24

Right Out: 7444.061 ± 1.723 χ^2/NDF : 675590.6/23

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

Left: 6885.088 ± 0.822 χ^2/NDF : 633306.5/47

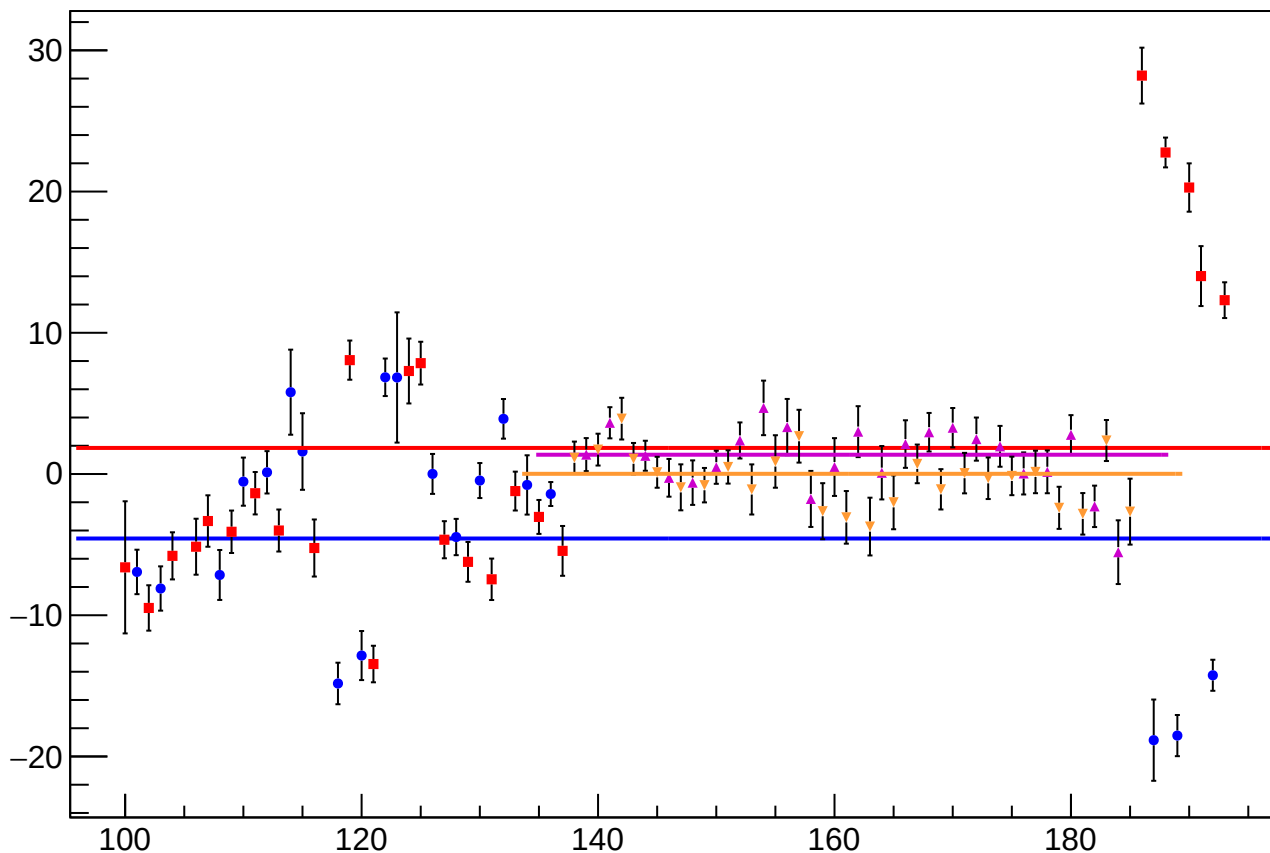
Right: 7687.620 ± 1.306 χ^2/NDF : 1108566.2/43

In: 7192.375 ± 1.019 χ^2/NDF : 940676.1/42

Out: 7043.519 ± 0.952 χ^2/NDF : 1060328.2/48

All: 7112.892 ± 0.696 χ^2/NDF : 2012397.5/91

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.567 ± 0.336 $\chi^2/\text{NDF}: 462.2/19$

Left Out: 0.014 ± 0.290 $\chi^2/\text{NDF}: 35.0/24$

Right Out: 1.847 ± 0.315 $\chi^2/\text{NDF}: 1247.3/23$

Left In: 1.365 ± 0.306 $\chi^2/\text{NDF}: 38.5/22$

Left: 0.654 ± 0.210 $\chi^2/\text{NDF}: 83.8/47$

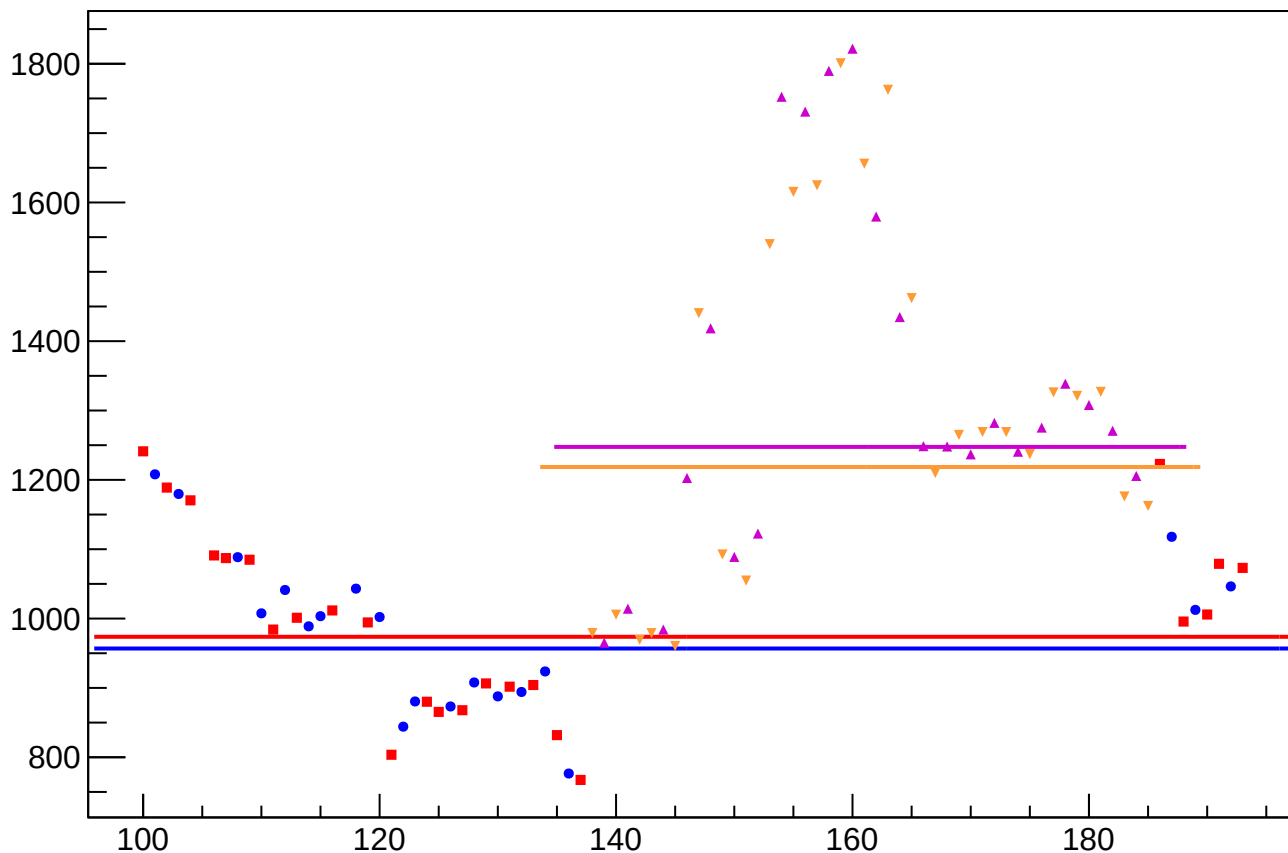
Right: -1.152 ± 0.230 $\chi^2/\text{NDF}: 1903.8/43$

In: -1.322 ± 0.226 $\chi^2/\text{NDF}: 671.5/42$

Out: 0.856 ± 0.213 $\chi^2/\text{NDF}: 1300.7/48$

All: -0.170 ± 0.155 $\chi^2/\text{NDF}: 2021.3/91$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 956.807 $\pm$ 0.237 χ^2 /NDF: 268037.0/19

Left Out: 1218.543 $\pm$ 0.205 χ^2 /NDF:1265847.5/24

Right Out: 973.721 $\pm$ 0.222 χ^2 /NDF: 279225.1/23

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

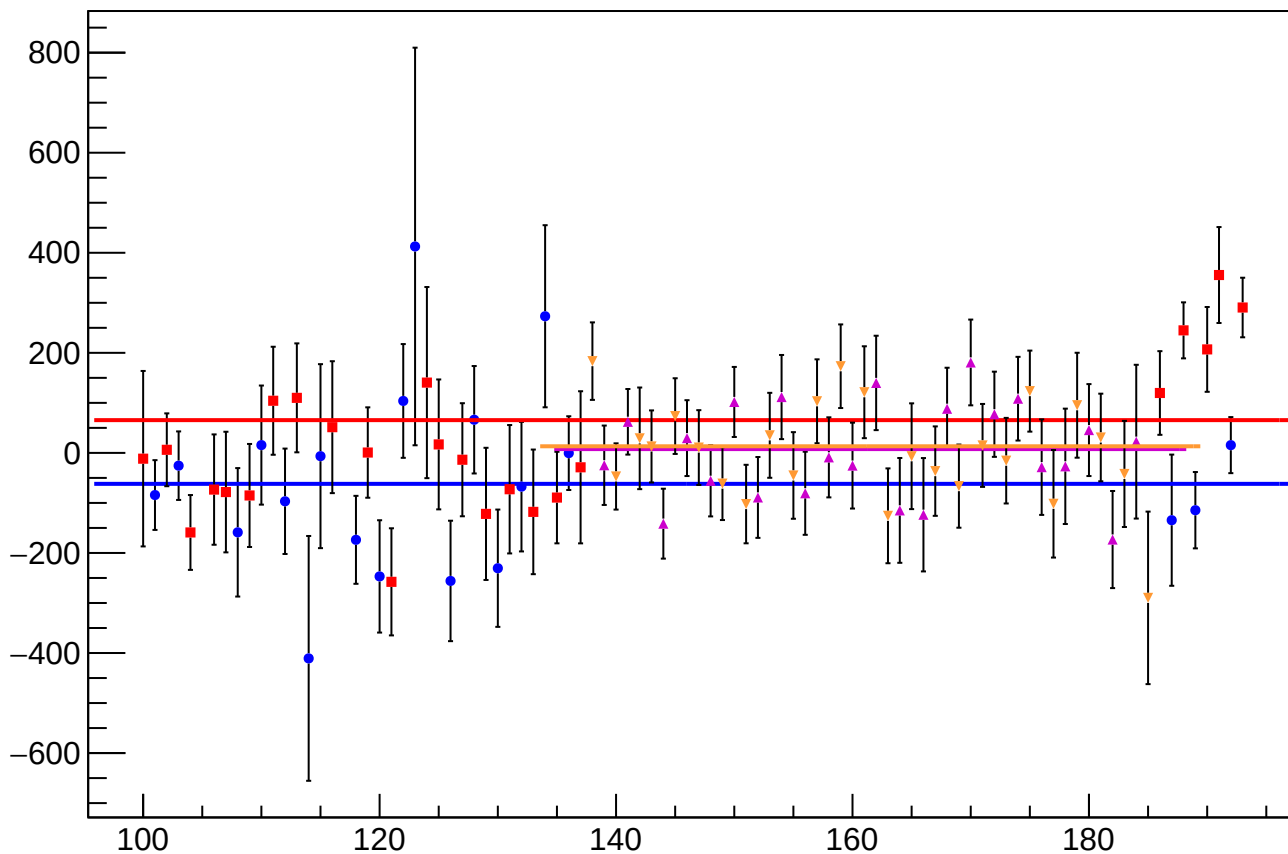
Right: 965.812 $\pm$ 0.162 χ^2 /NDF: 549965.6/43

In: 1115.817 $\pm$ 0.160 χ^2 /NDF:2162069.3/42

Out: 1106.106 $\pm$ 0.151 χ^2 /NDF:2200037.1/48

All: 1110.680 $\pm$ 0.110 χ^2 /NDF: 4364061.1/91

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -61.869 $\pm$ 22.194 χ^2/NDF : 24.4/19

Left Out: 13.207 $\pm$ 17.146 χ^2/NDF :26.8/24

Right Out: 65.485 $\pm$ 19.667 χ^2/NDF : 71.2/23

Left In: 7.618 $\pm$ 17.672 χ^2/NDF :28.1/22

Left: 10.497 $\pm$ 12.306 χ^2/NDF : 55.0/47

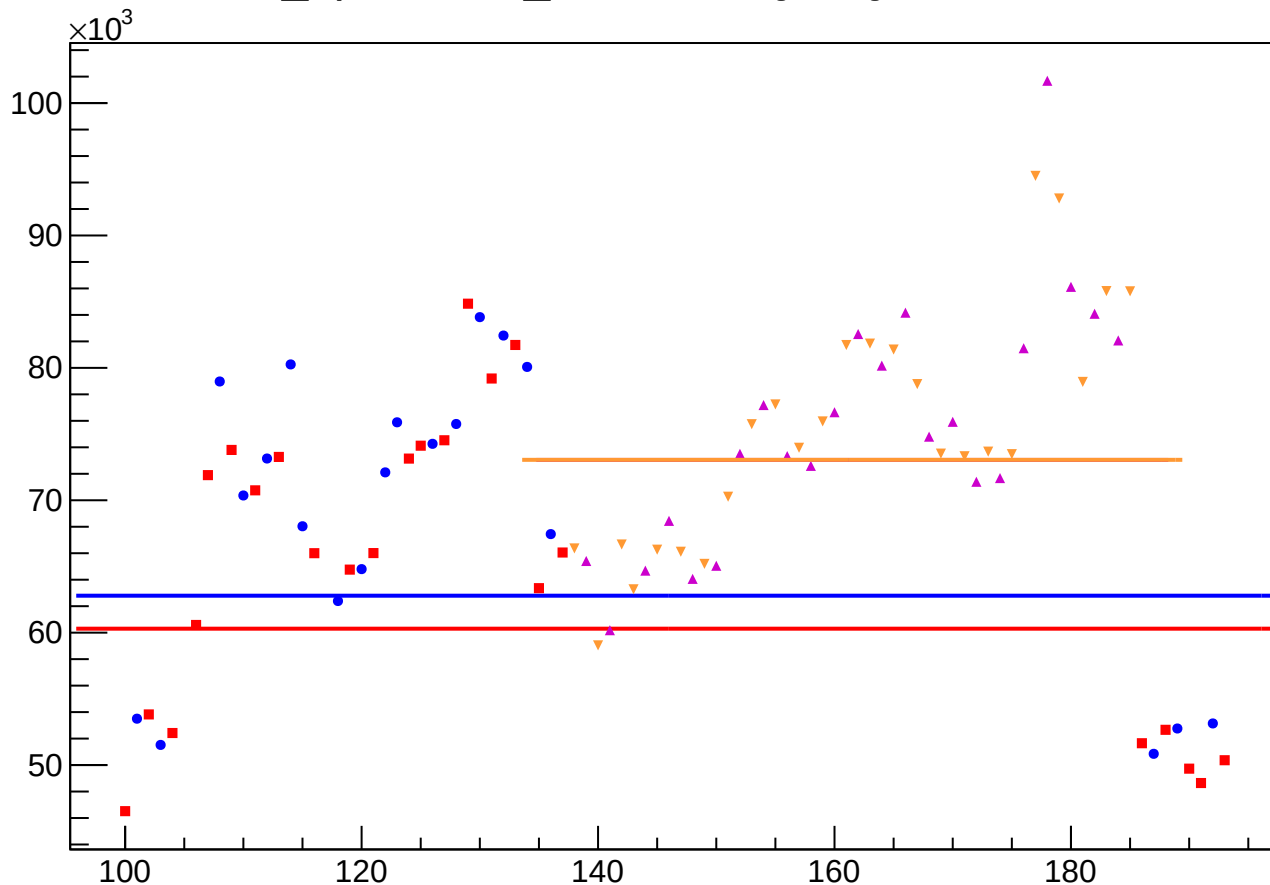
Right: 9.467 $\pm$ 14.720 χ^2/NDF : 114.1/43

In: -19.343 $\pm$ 13.825 χ^2/NDF :58.5/42

Out: 35.782 $\pm$ 12.924 χ^2/NDF :102.1/48

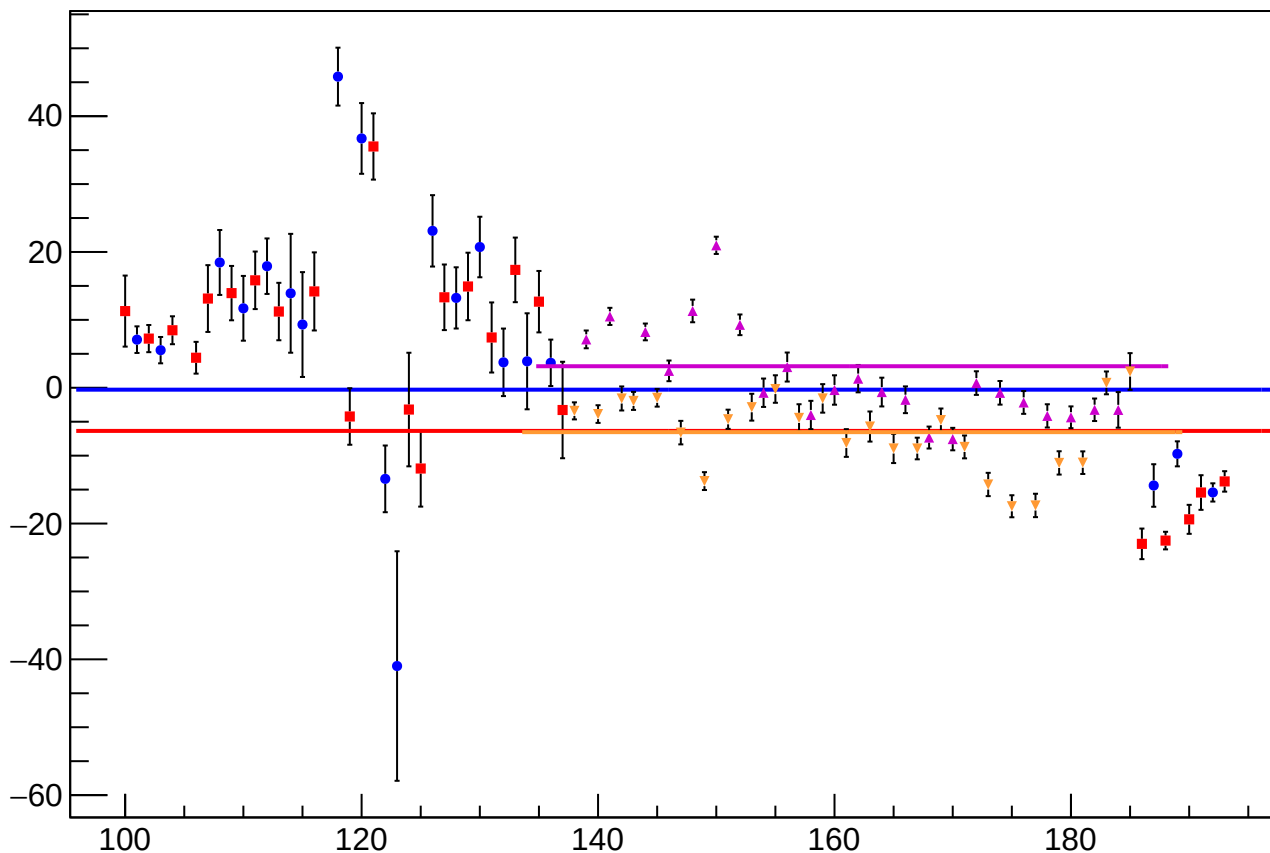
All: 10.073 $\pm$ 9.441 χ^2/NDF : 169.0/91

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 62792.135 $\pm$ 15.694	χ^2/NDF : 471293.0/19	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: 61396.539 $\pm$ 10.408	χ^2/NDF : 1065355.2/43
Right Out: 60300.616 $\pm$ 13.907	χ^2/NDF : 579944.0/23	In: 69067.213 $\pm$ 9.775	χ^2/NDF : 1196059.2/42
Left In: 73045.500 $\pm$ 12.496	χ^2/NDF : 463525.5/22	Out: 67546.903 $\pm$ 9.139	χ^2/NDF : 1530843.2/48
		All: 68255.943 $\pm$ 6.676	χ^2/NDF : 2739809.3/9

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.282 ± 0.695 $\chi^2/\text{NDF}: 475.9/19$

Left Out: -6.537 ± 0.332 $\chi^2/\text{NDF}: 252.7/24$

Right Out: -6.356 ± 0.584 $\chi^2/\text{NDF}: 673.6/23$

Left In: 3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

Left: -1.892 ± 0.240 $\chi^2/\text{NDF}: 1149.5/47$

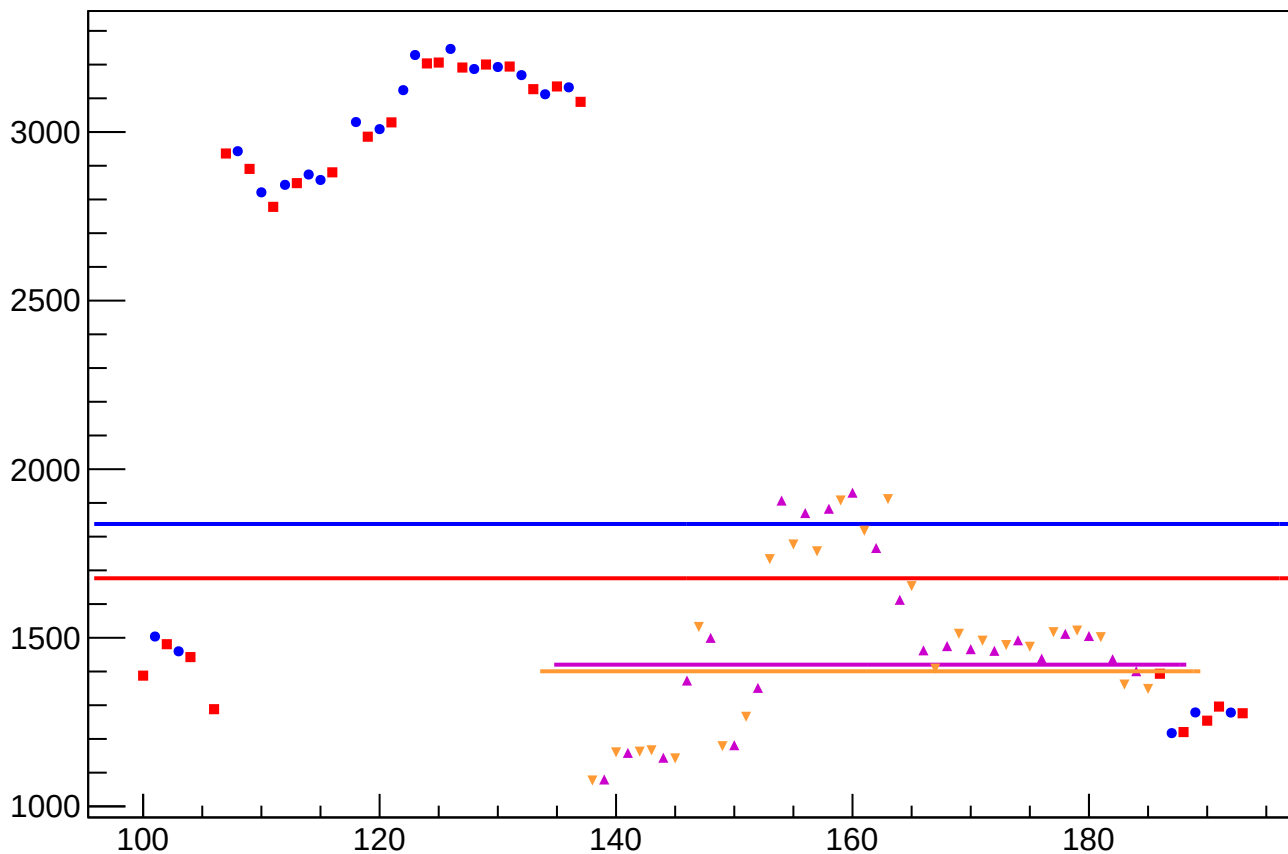
Right: -3.843 ± 0.447 $\chi^2/\text{NDF}: 1194.3/43$

In: 2.483 ± 0.310 $\chi^2/\text{NDF}: 983.0/42$

Out: -6.492 ± 0.288 $\chi^2/\text{NDF}: 926.4/48$

All: -2.328 ± 0.211 $\chi^2/\text{NDF}: 2358.6/91$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1837.535 $\pm$ 0.491 χ^2 /NDF: 2529639.0/19

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

Right Out: 1676.520 $\pm$ 0.413 χ^2 /NDF: 2937844.7/23

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

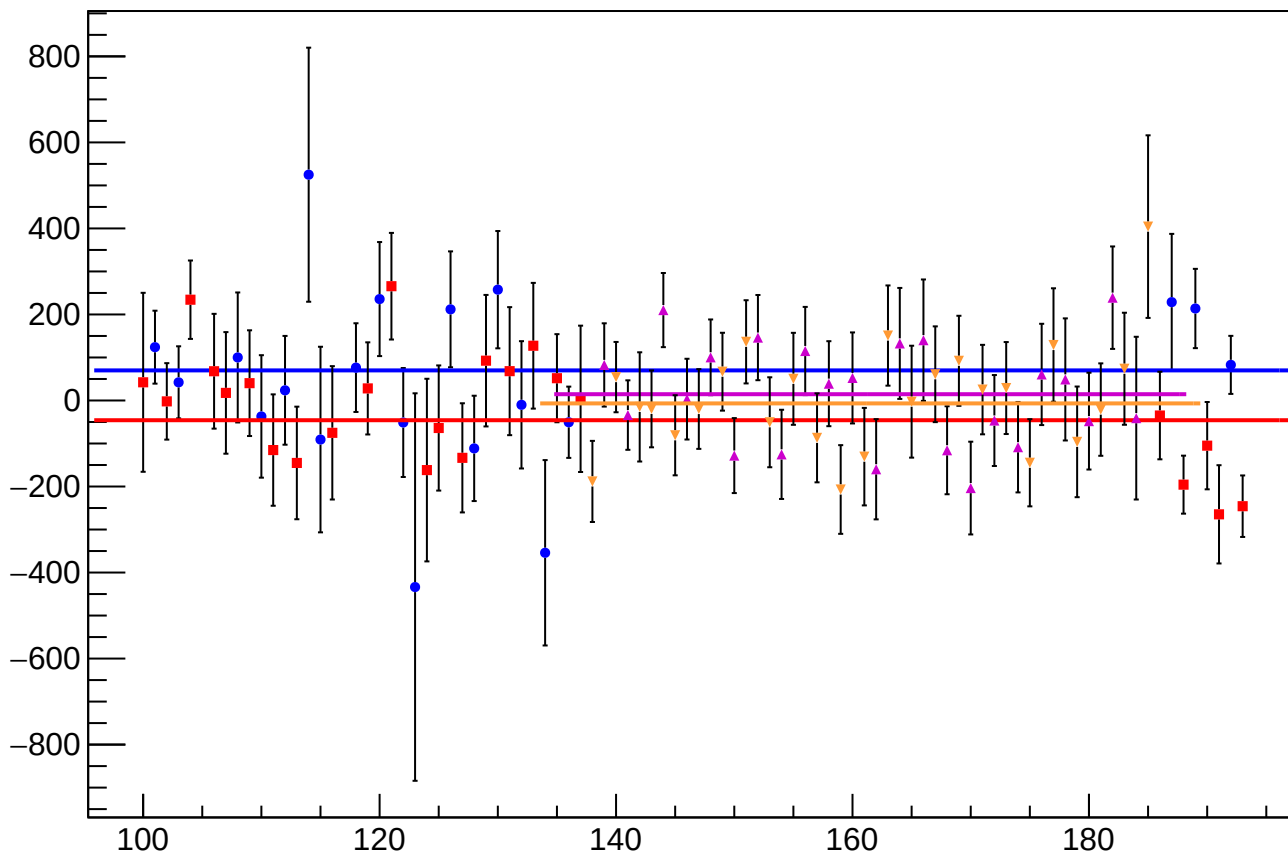
Right: 1743.136 $\pm$ 0.316 χ^2 /NDF: 5530476.5/43

In: 1503.395 $\pm$ 0.219 χ^2 /NDF: 4012634.6/42

Out: 1468.039 $\pm$ 0.204 χ^2 /NDF: 4313550.5/48

All: 1484.443 $\pm$ 0.149 χ^2 /NDF: 8340126.3/91

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 69.951 ± 26.226 χ^2/NDF : 22.9/19

Left Out: -6.789 ± 21.213 χ^2/NDF : 24.7/24

Right Out: -45.881 ± 23.335 χ^2/NDF : 40.4/23

Left In: 14.611 ± 21.846 χ^2/NDF : 29.8/22

Left: 3.596 ± 15.219 χ^2/NDF : 55.0/47

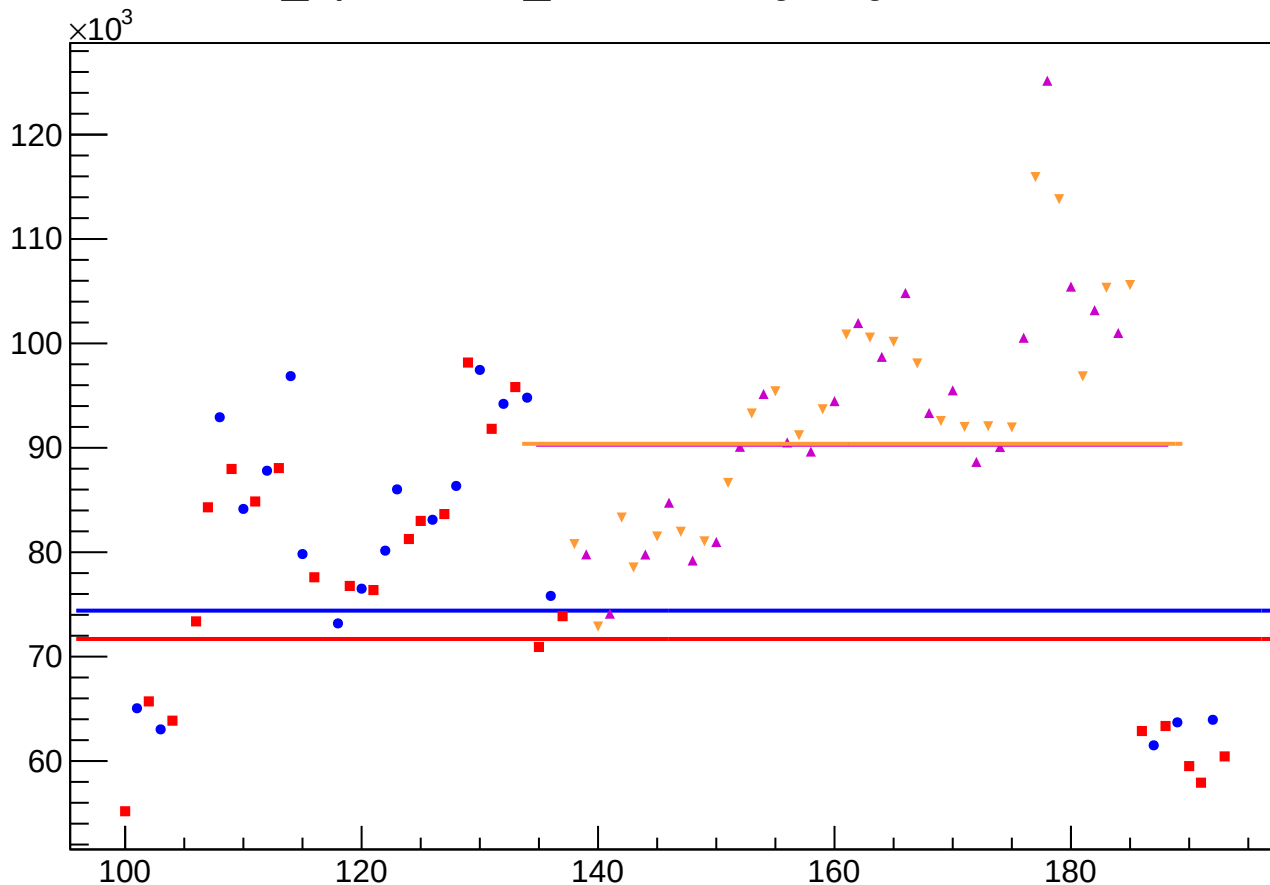
Right: 5.302 ± 17.433 χ^2/NDF : 74.1/43

In: 37.281 ± 16.785 χ^2/NDF : 55.3/42

Out: -24.477 ± 15.697 χ^2/NDF : 66.6/48

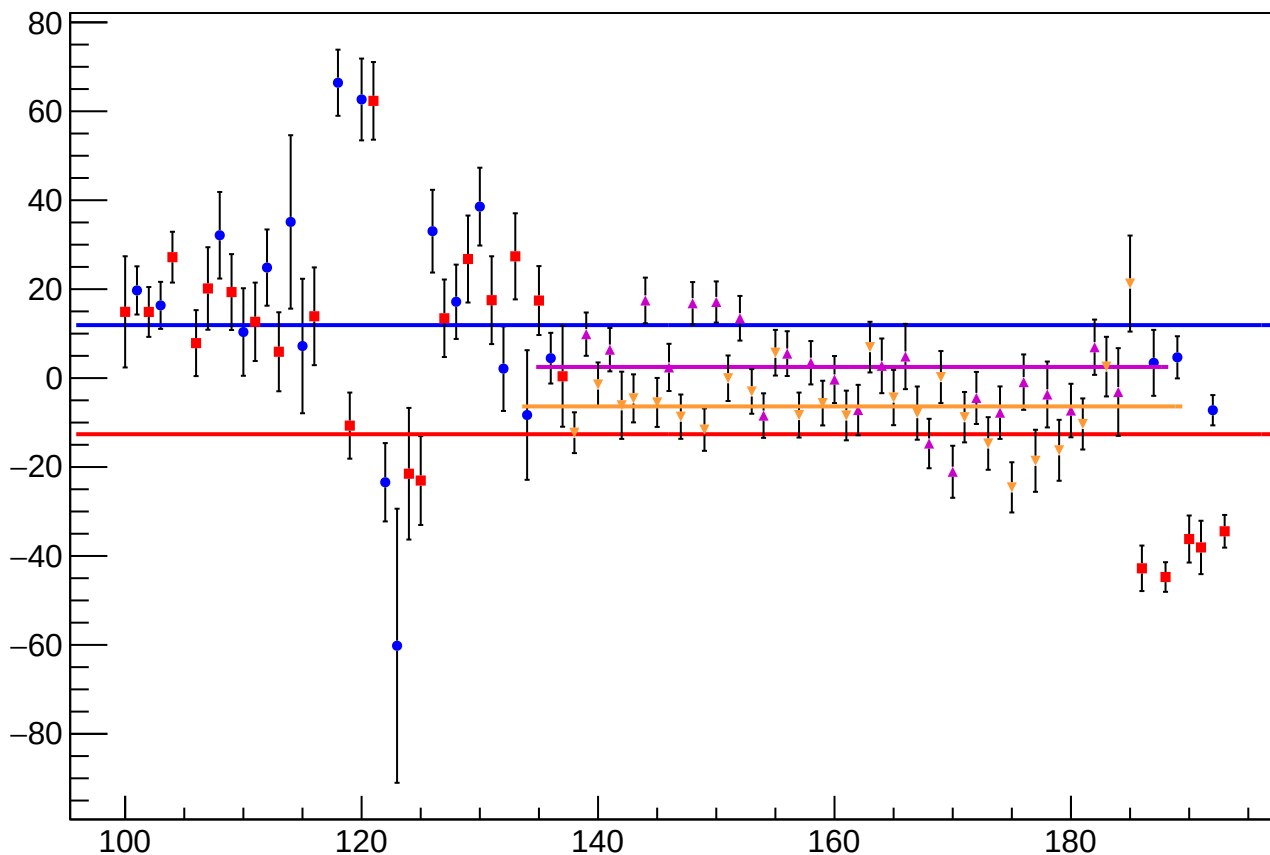
All: 4.334 ± 11.465 χ^2/NDF : 129.1/91

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 74405.297 $\pm$ 18.544	χ^2/NDF : 369229.9/19	Left: 90340.563 $\pm$ 10.761	χ^2/NDF : 923003.7/47
Left Out: 90384.853 $\pm$ 15.000	χ^2/NDF : 461648.2/24	Right: 72890.343 $\pm$ 12.327	χ^2/NDF : 869545.3/43
Right Out: 71690.931 $\pm$ 16.501	χ^2/NDF : 488358.0/23	In: 83785.059 $\pm$ 11.869	χ^2/NDF : 1263920.1/42
Left In: 90293.591 $\pm$ 15.448	χ^2/NDF : 461337.5/22	Out: 81926.400 $\pm$ 11.099	χ^2/NDF : 1652774.0/48
		All: 82793.503 $\pm$ 8.107	χ^2/NDF : 2929776.4/95

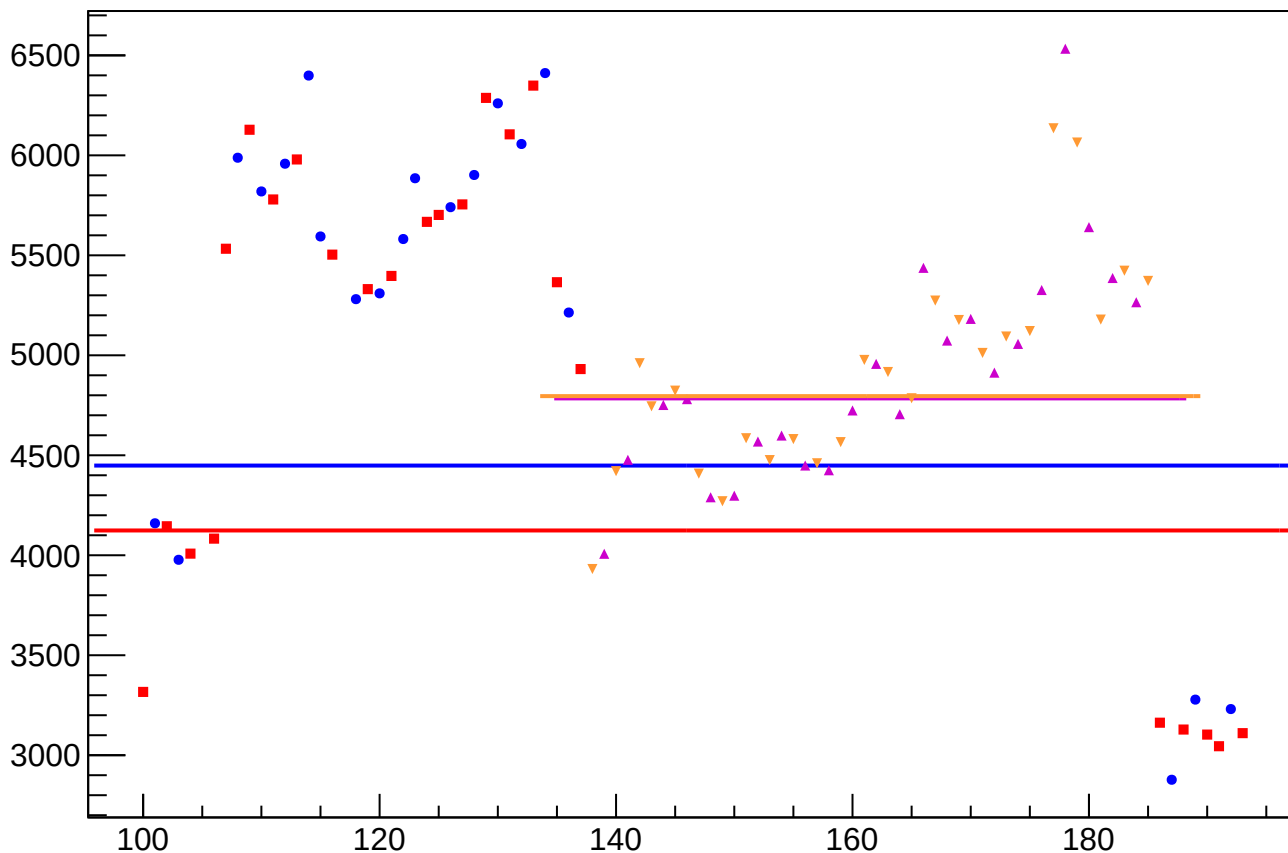
diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 11.913 $\pm$ 1.602 χ^2/NDF : 171.4/19
 Left Out: -6.370 $\pm$ 1.124 χ^2/NDF :45.5/24
 Right Out: -12.620 $\pm$ 1.378 χ^2/NDF : 473.9/23
 Left In: 2.501 $\pm$ 1.156 χ^2/NDF :78.4/22

Left: -2.059 $\pm$ 0.806 χ^2/NDF : 154.1/47
 Right: -2.189 $\pm$ 1.045 χ^2/NDF : 780.1/43
 In: 5.723 $\pm$ 0.937 χ^2/NDF :272.5/42
 Out: -8.867 $\pm$ 0.871 χ^2/NDF :531.7/48
 All: -2.108 $\pm$ 0.638 χ^2/NDF : 934.3/91

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4448.543 ± 1.133 χ^2/NDF : 1066005.6/19

Left Out: 4795.847 ± 0.795 χ^2/NDF : 361249.7/24

Right Out: 4123.989 ± 0.974 χ^2/NDF : 1477674.1/23

Left In: 4784.434 ± 0.817 χ^2/NDF : 357507.2/22

Left: 4790.301 ± 0.570 χ^2/NDF : 718857.1/47

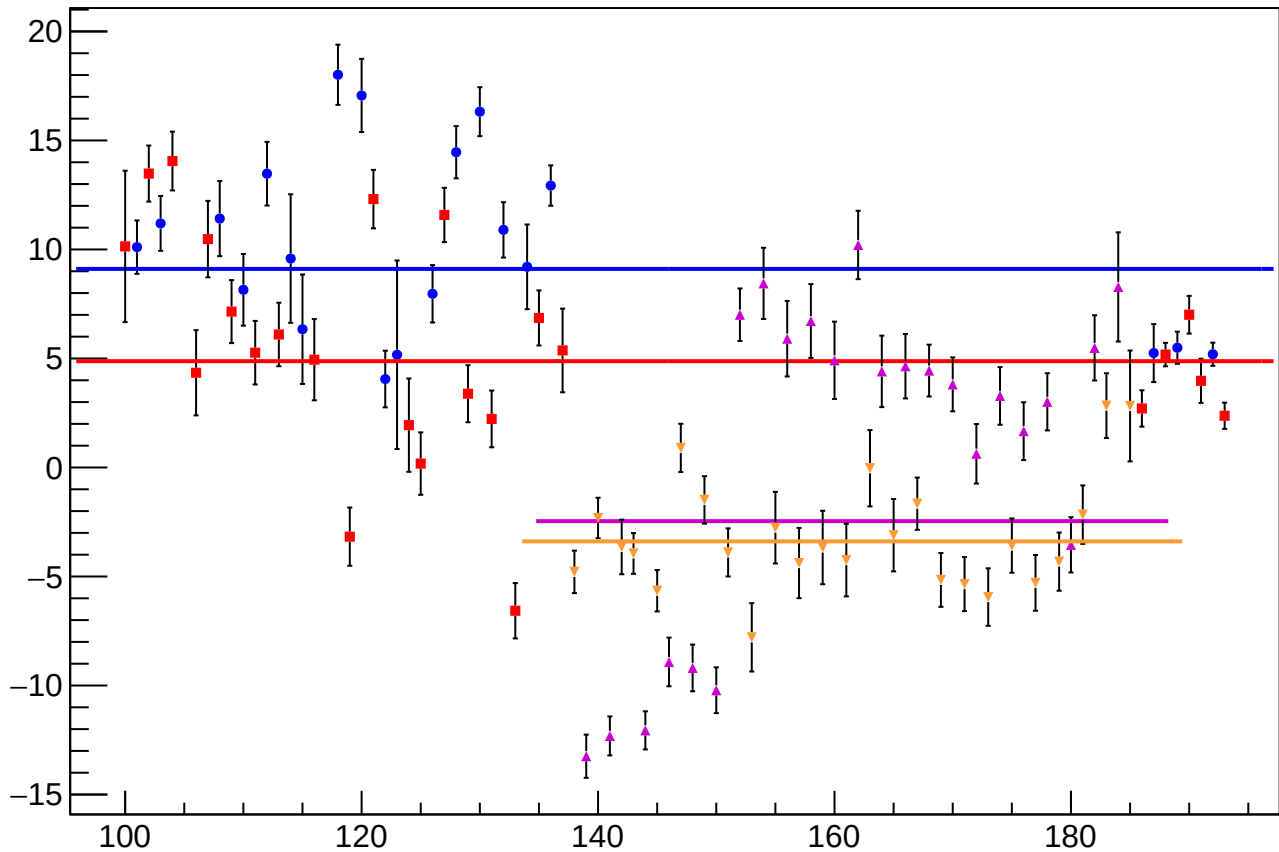
Right: 4261.987 ± 0.739 χ^2/NDF : 2590860.8/43

In: 4669.438 ± 0.663 χ^2/NDF : 1481330.1/42

Out: 4527.437 ± 0.616 χ^2/NDF : 2124468.6/48

All: 4593.224 ± 0.451 χ^2/NDF : 3630431.6/91

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 9.108 ± 0.264 $\chi^2/\text{NDF}: 263.7/19$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 4.876 ± 0.231 $\chi^2/\text{NDF}: 336.3/23$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

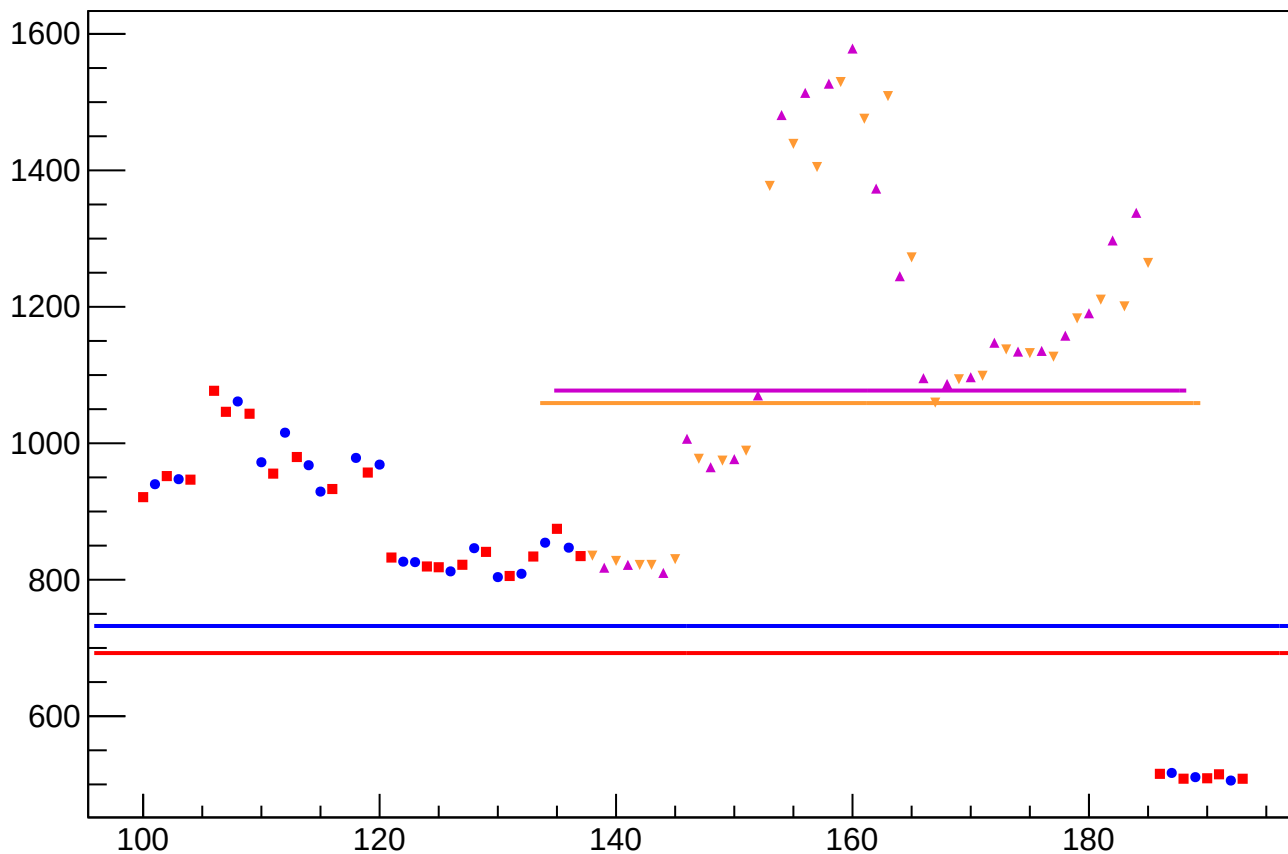
Right: 6.716 ± 0.174 $\chi^2/\text{NDF}: 745.3/43$

In: 3.334 ± 0.187 $\chi^2/\text{NDF}: 2150.8/42$

Out: 1.099 ± 0.171 $\chi^2/\text{NDF}: 997.1/48$

All: 2.115 ± 0.126 $\chi^2/\text{NDF}: 3226.0/91$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 732.220 $\pm$ 0.187 χ^2/NDF : 1124339.3/19

Left Out: 1058.941 $\pm$ 0.178 χ^2/NDF : 1403222.2/24

Right Out: 692.529 $\pm$ 0.164 χ^2/NDF : 1540634.4/23

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

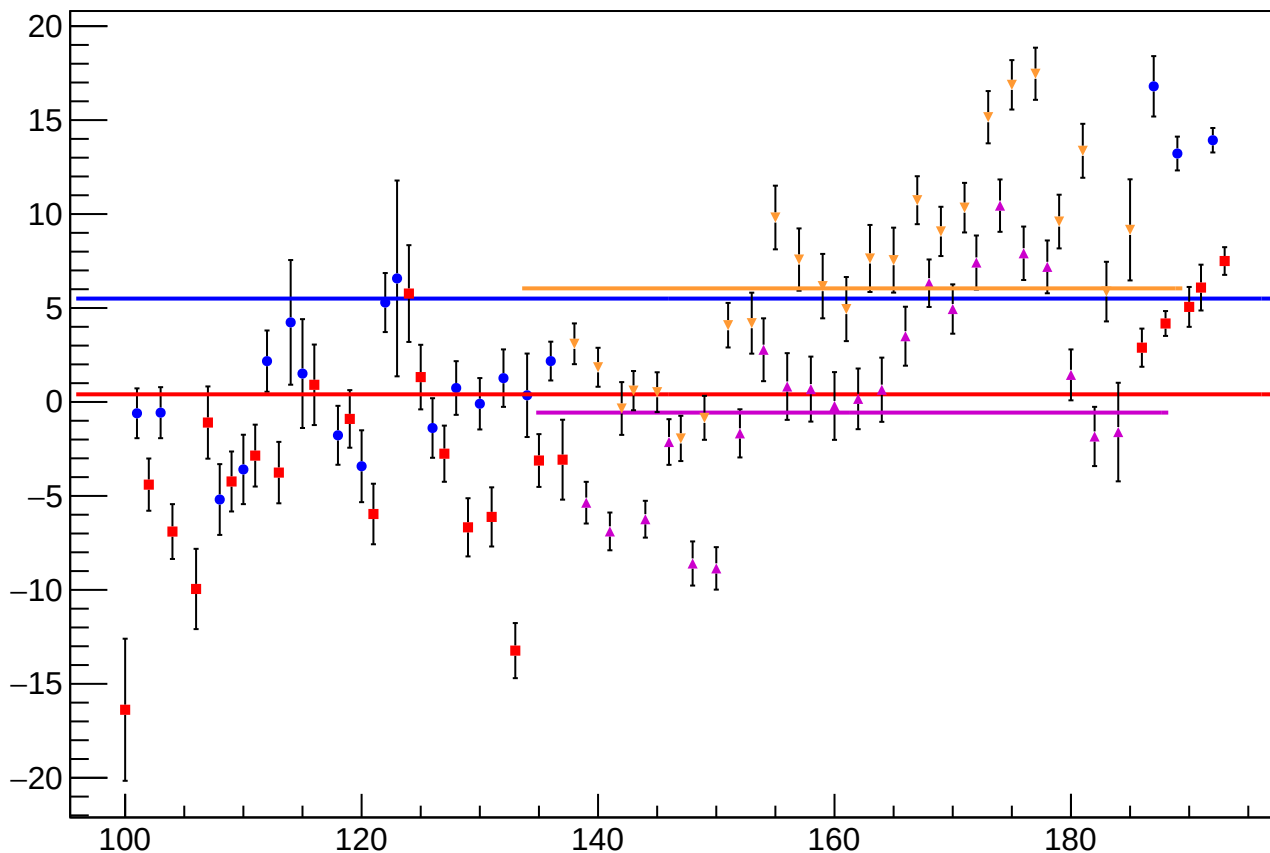
Right: 709.781 $\pm$ 0.123 χ^2/NDF : 2690546.7/43

In: 904.461 $\pm$ 0.132 χ^2/NDF : 4111257.9/42

Out: 859.977 $\pm$ 0.121 χ^2/NDF : 5235246.1/48

All: 880.200 $\pm$ 0.089 χ^2/NDF : 9408375.9/91

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 5.502 ± 0.311 $\chi^2/\text{NDF}: 507.9/19$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: 0.407 ± 0.274 $\chi^2/\text{NDF}: 430.7/23$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

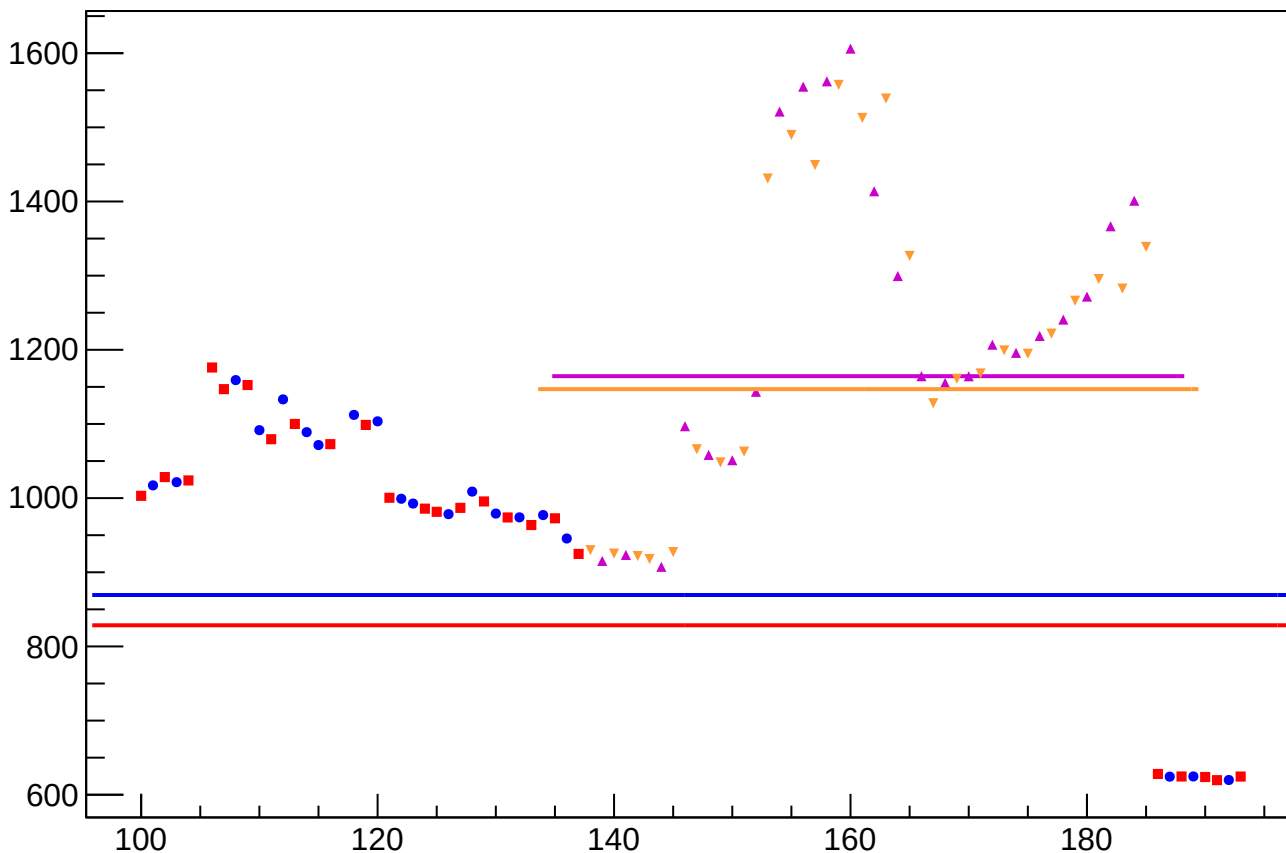
Right: 2.637 ± 0.205 $\chi^2/\text{NDF}: 1089.9/43$

In: 2.199 ± 0.210 $\chi^2/\text{NDF}: 1132.7/42$

Out: 3.250 ± 0.193 $\chi^2/\text{NDF}: 1075.0/48$

All: 2.768 ± 0.142 $\chi^2/\text{NDF}: 2221.4/91$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 869.357 $\pm$ 0.220 χ^2 /NDF: 844315.6/19

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 828.513 $\pm$ 0.194 χ^2 /NDF: 1166633.8/23

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

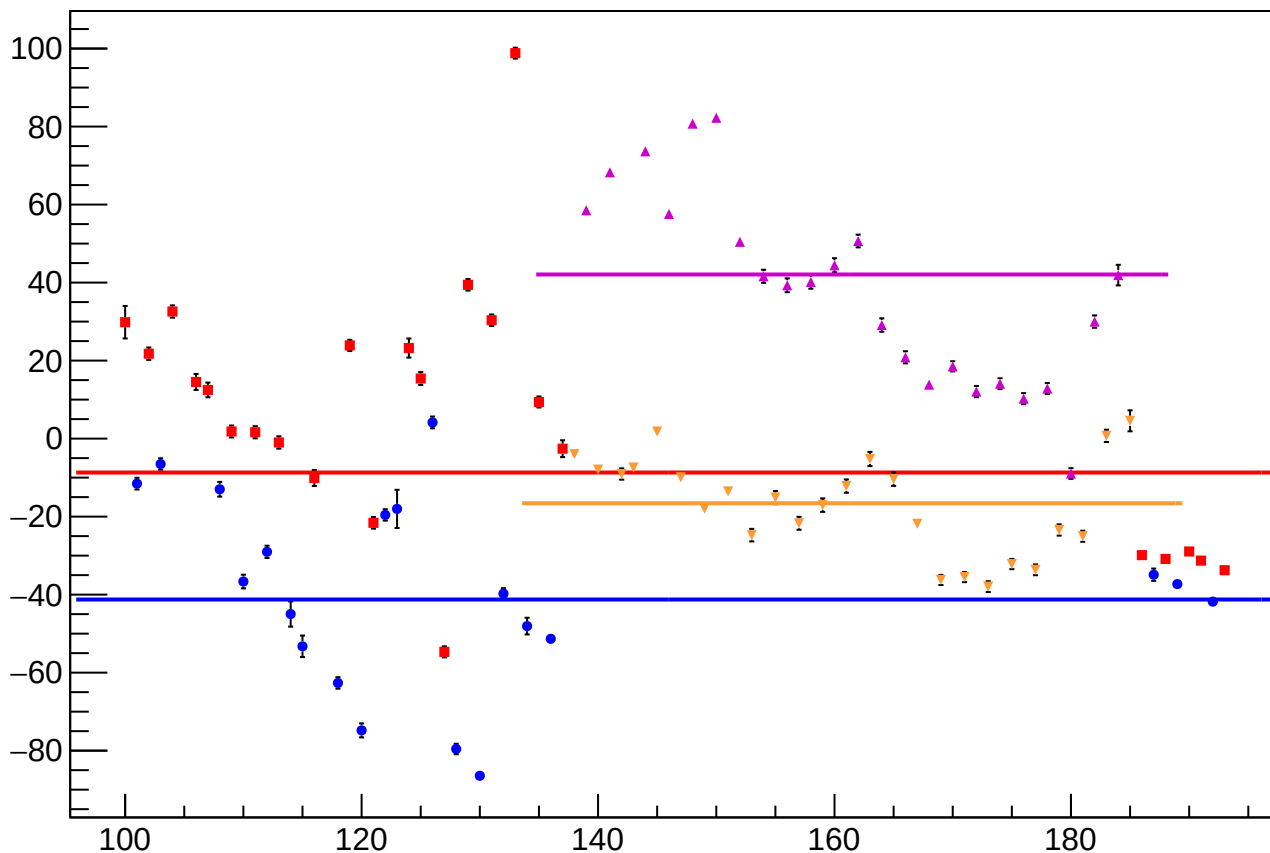
Right: 846.393 $\pm$ 0.145 χ^2 /NDF: 2030399.1/43

In: 1029.987 $\pm$ 0.148 χ^2 /NDF:2771297.2/42

Out: 989.114 $\pm$ 0.136 χ^2 /NDF:3574504.7/48

All: 1007.858 $\pm$ 0.100 χ^2 /NDF: 6386967.4/91

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -41.252 ± 0.304 $\chi^2/\text{NDF}: 5141.1/19$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: -8.691 ± 0.267 $\chi^2/\text{NDF}: 14999.5/23$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

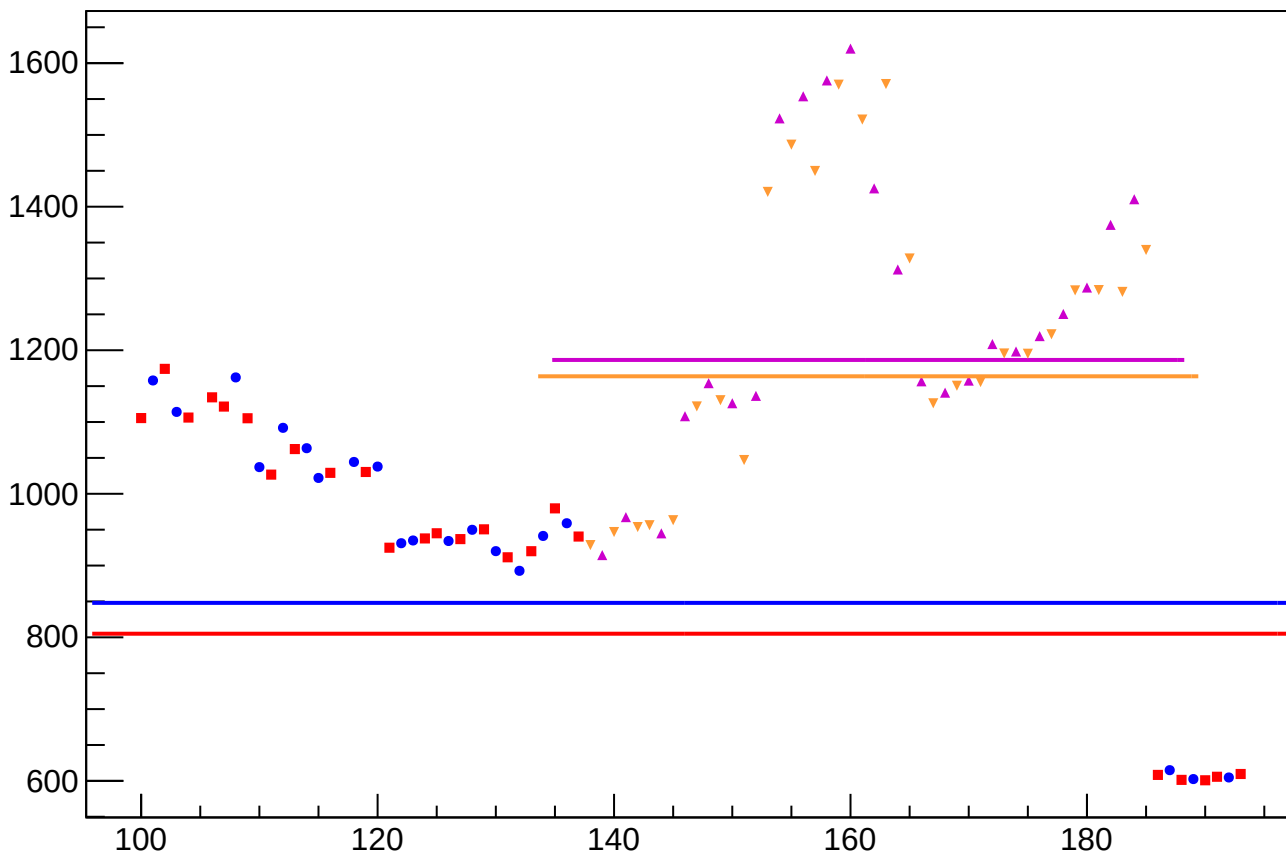
Right: -22.883 ± 0.200 $\chi^2/\text{NDF}: 26633.4/43$

In: 2.438 ± 0.209 $\chi^2/\text{NDF}: 52995.3/42$

Out: -12.506 ± 0.192 $\chi^2/\text{NDF}: 17352.9/48$

All: -5.694 ± 0.141 $\chi^2/\text{NDF}: 73121.7/91$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 848.012 $\pm$ 0.215 χ^2 /NDF: 907206.9/19

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 805.041 $\pm$ 0.189 χ^2 /NDF: 1242547.4/23

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

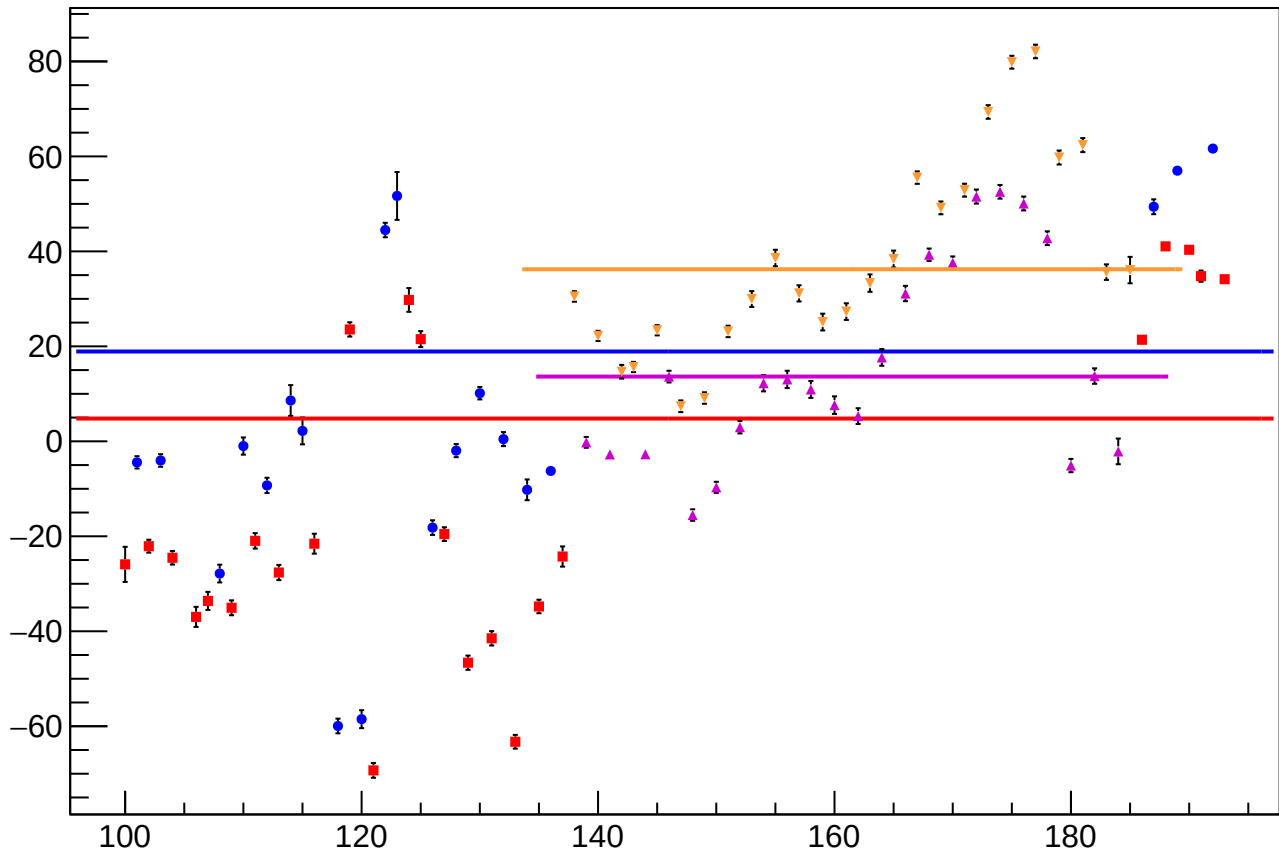
Right: 823.771 $\pm$ 0.142 χ^2 /NDF: 2172370.4/43

In: 1025.472 $\pm$ 0.148 χ^2 /NDF: 3044714.7/42

Out: 978.759 $\pm$ 0.135 χ^2 /NDF: 3929377.4/48

All: 1000.050 $\pm$ 0.100 χ^2 /NDF: 7028292.5/91

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 18.915 $\pm$ 0.303 χ^2 /NDF: 15031.4/19

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

Right Out: 4.794 $\pm$ 0.266 χ^2 /NDF: 18414.2/23

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

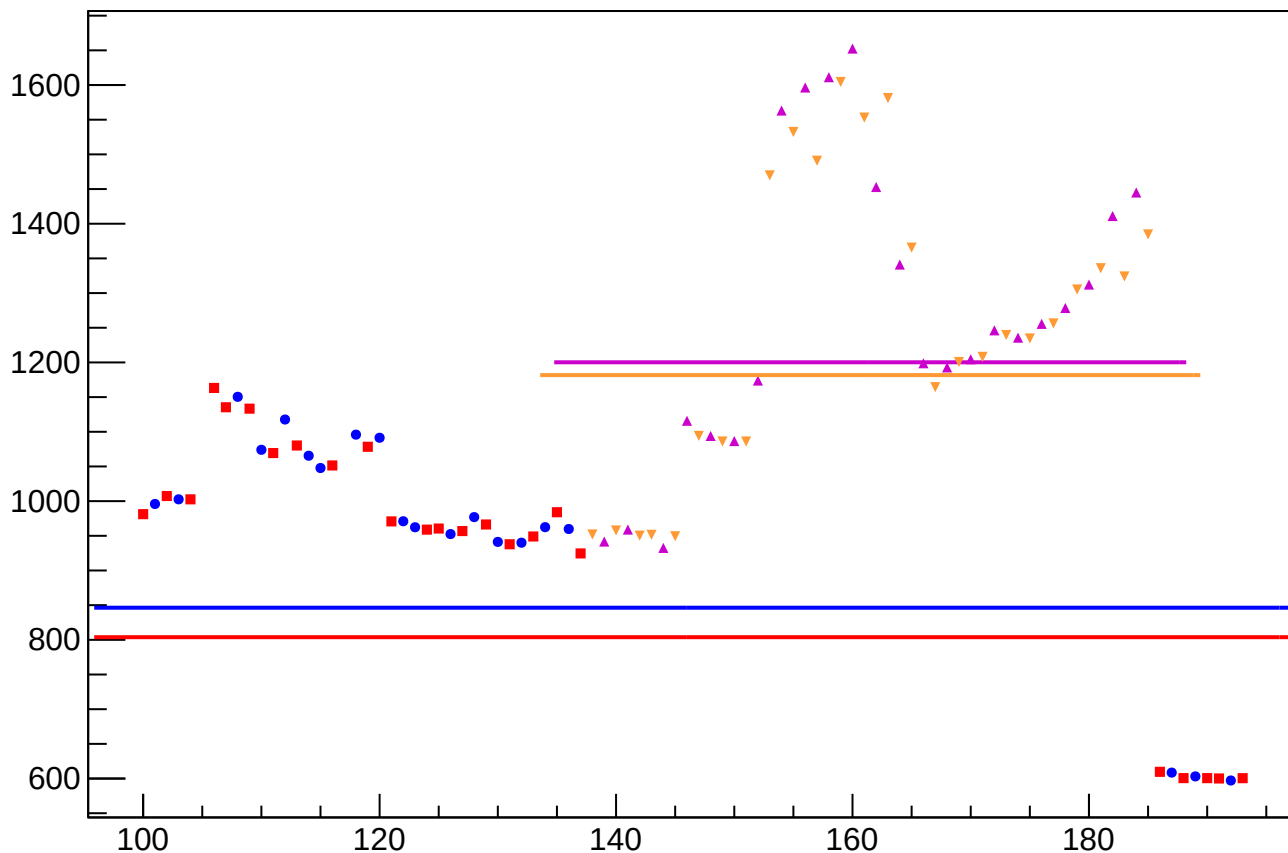
Right: 10.954 $\pm$ 0.200 χ^2 /NDF: 34670.8/43

In: 16.188 $\pm$ 0.211 χ^2 /NDF:20366.2/42

Out: 19.742 $\pm$ 0.193 χ^2 /NDF:30828.2/48

All: 18.119 $\pm$ 0.142 χ^2 /NDF: 51349.3/91

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 846.344 $\pm$ 0.214 χ^2 /NDF: 908534.6/19

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 803.808 $\pm$ 0.188 χ^2 /NDF: 1254802.5/23

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

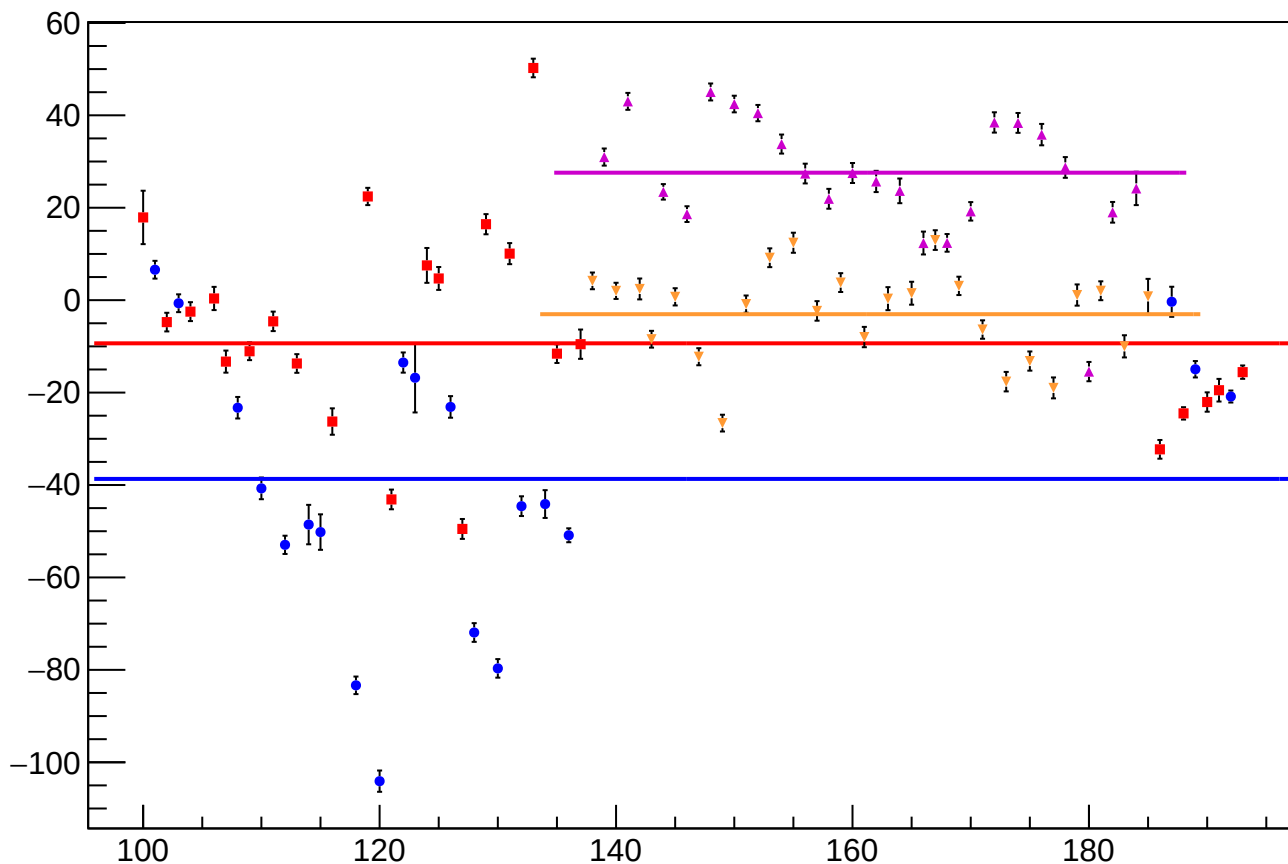
Right: 822.363 $\pm$ 0.141 χ^2 /NDF: 2185570.1/43

In: 1029.283 $\pm$ 0.149 χ^2 /NDF:3257715.7/42

Out: 983.490 $\pm$ 0.136 χ^2 /NDF:4211285.8/48

All: 1004.399 $\pm$ 0.101 χ^2 /NDF: 7520422.7/91

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -38.682 ± 0.475 χ^2/NDF : 3868.7/19

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -9.341 ± 0.433 χ^2/NDF : 2459.1/23

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

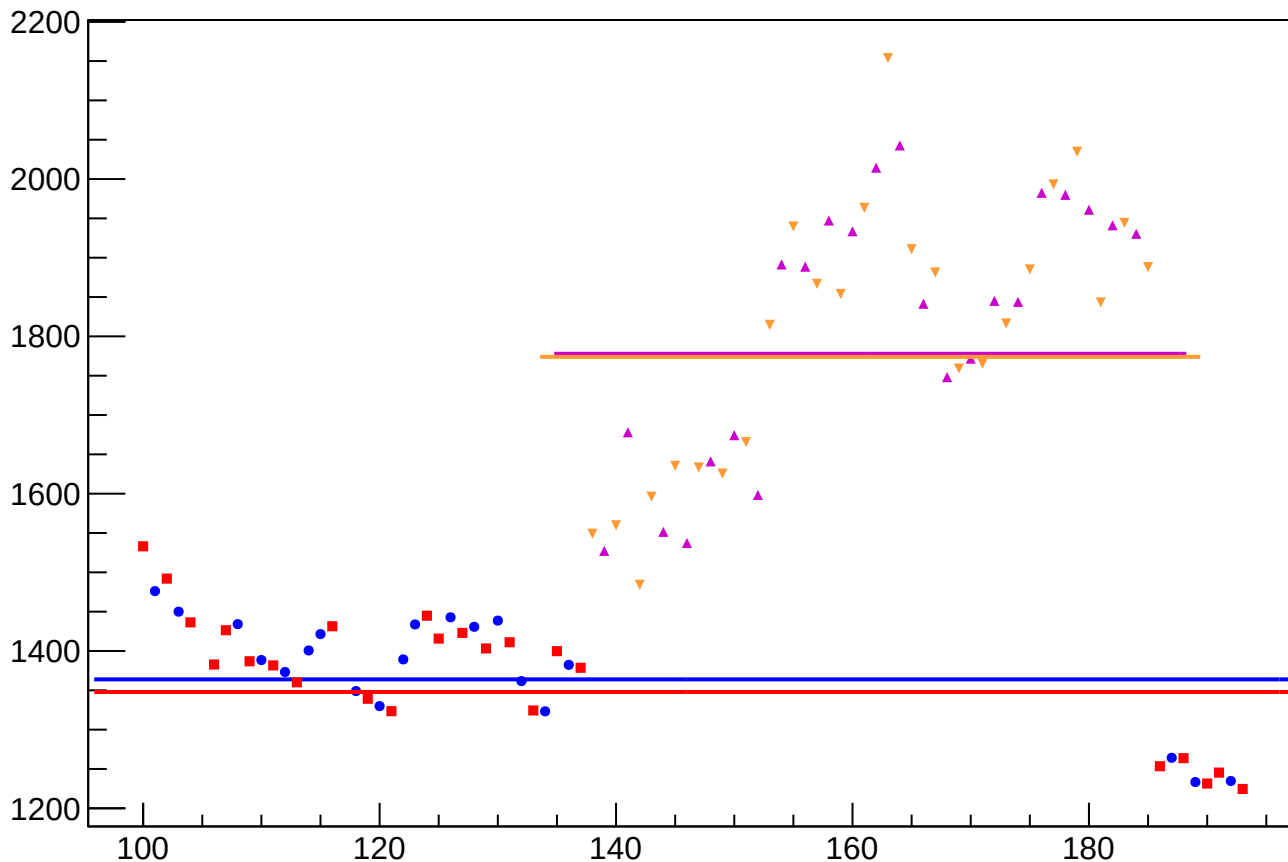
Right: -22.647 ± 0.320 χ^2/NDF : 8411.4/43

In: -2.175 ± 0.318 χ^2/NDF : 15541.8/42

Out: -6.057 ± 0.300 χ^2/NDF : 3125.2/48

All: -4.234 ± 0.218 χ^2/NDF : 18745.9/91

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1363.911 $\pm$ 0.336 χ^2/NDF : 54923.9/19

Left Out: 1773.965 $\pm$ 0.294 χ^2/NDF : 313031.1/24

Right Out: 1347.903 $\pm$ 0.306 χ^2/NDF : 68350.3/23

Left In: 1777.884 $\pm$ 0.303 χ^2/NDF : 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2/NDF : 612631.3/47

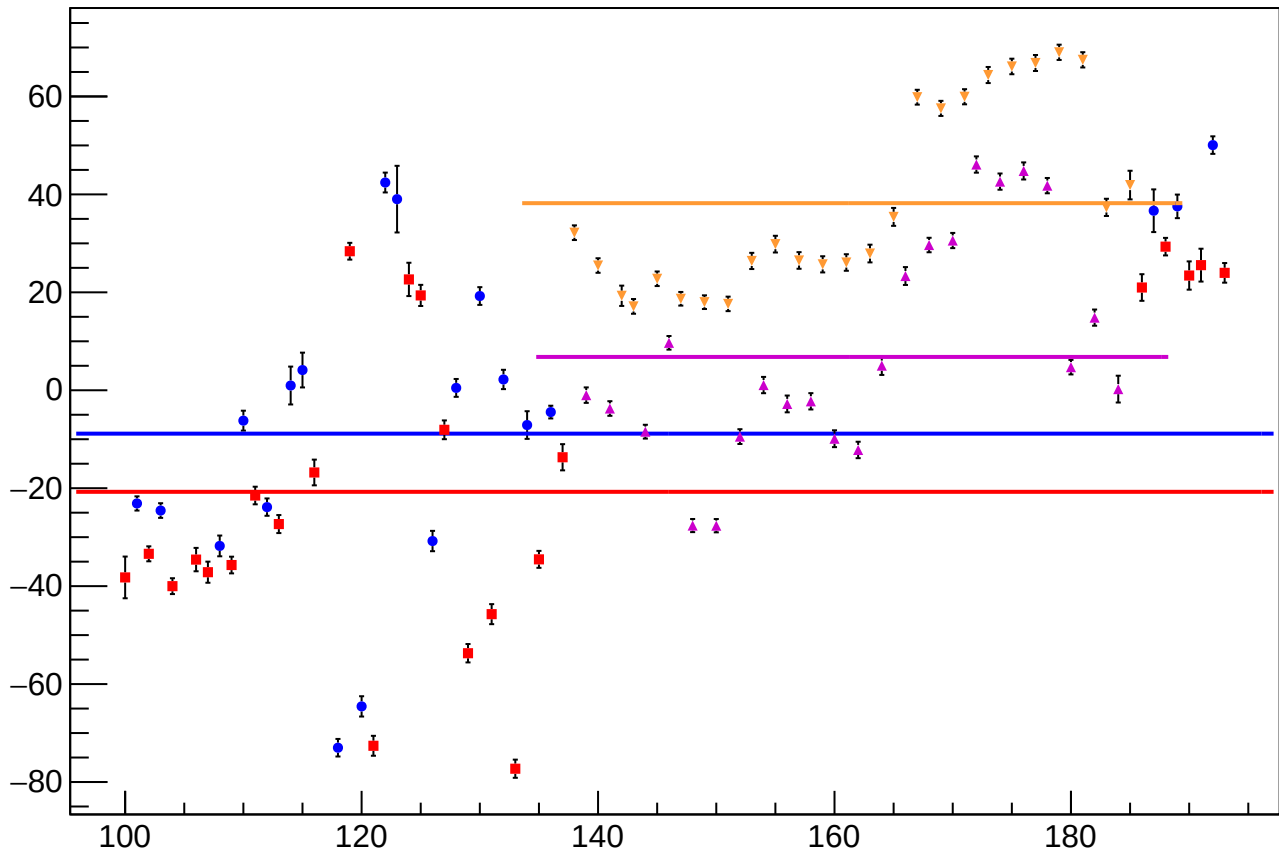
Right: 1355.162 $\pm$ 0.226 χ^2/NDF : 124514.5/43

In: 1591.982 $\pm$ 0.225 χ^2/NDF : 1190661.2/42

Out: 1569.864 $\pm$ 0.212 χ^2/NDF : 1390812.2/48

All: 1580.249 $\pm$ 0.154 χ^2/NDF : 2586591.5/91

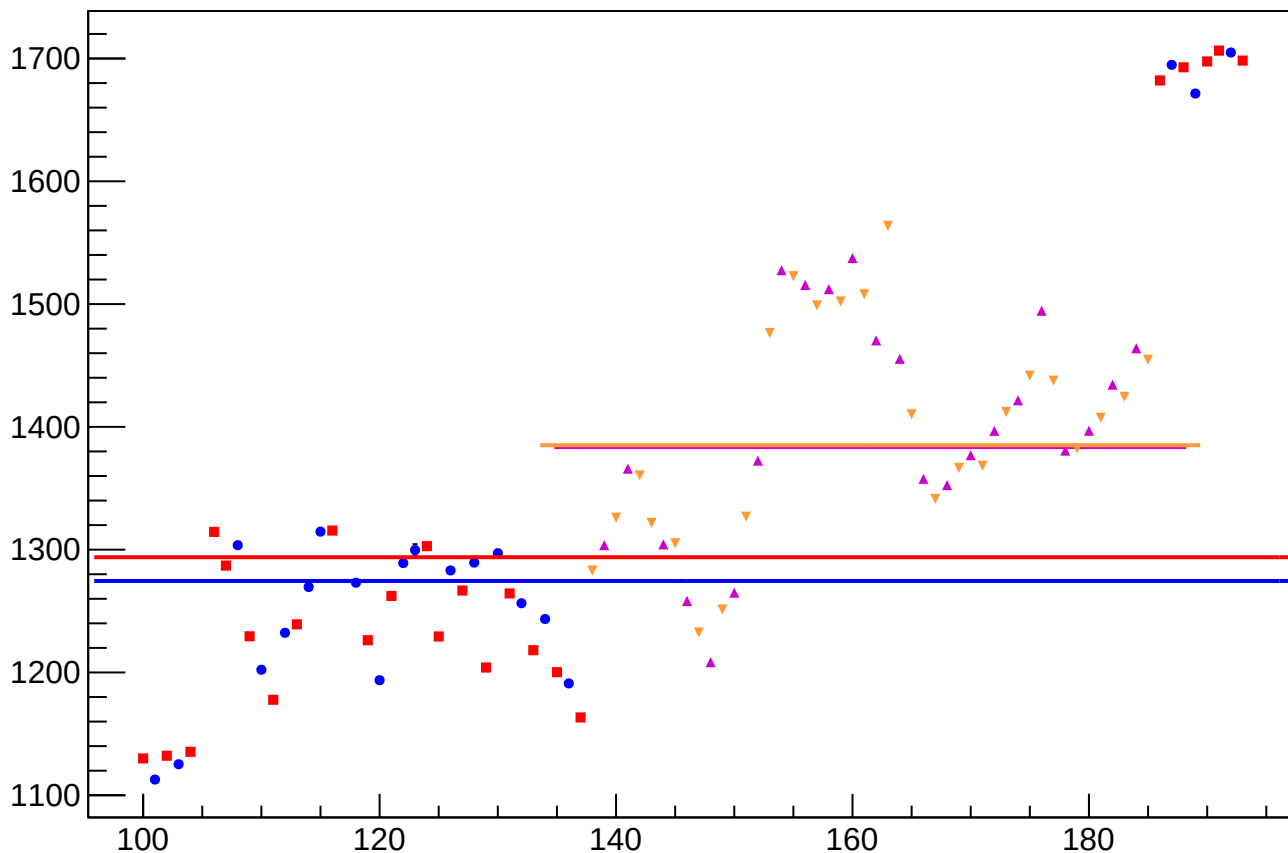
diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -8.858±/0.447 χ^2/NDF : 5094.8/19
 Left Out: 38.206±/0.323 χ^2/NDF :3514.2/24
 Right Out: -20.738±/0.419 χ^2/NDF : 5831.0/23
 Left In: 6.808±/0.333 χ^2/NDF :4494.5/22

Left: 22.967±/0.232 χ^2/NDF : 12584.4/47
 Right: -15.179±/0.306 χ^2/NDF : 11301.9/43
 In: 1.214±/0.267 χ^2/NDF :10379.7/42
 Out: 16.206±/0.256 χ^2/NDF :21746.5/48
 All: 9.025±/0.185 χ^2/NDF : 33768.7/91

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1274.503 $\pm$ 0.316 χ^2/NDF : 249948.0/19

Left Out: 1385.063 $\pm$ 0.229 χ^2/NDF :146001.5/24

Right Out: 1293.852 $\pm$ 0.296 χ^2/NDF : 373255.9/23

Left In: 1383.558 $\pm$ 0.235 χ^2/NDF :154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2/NDF : 300718.5/47

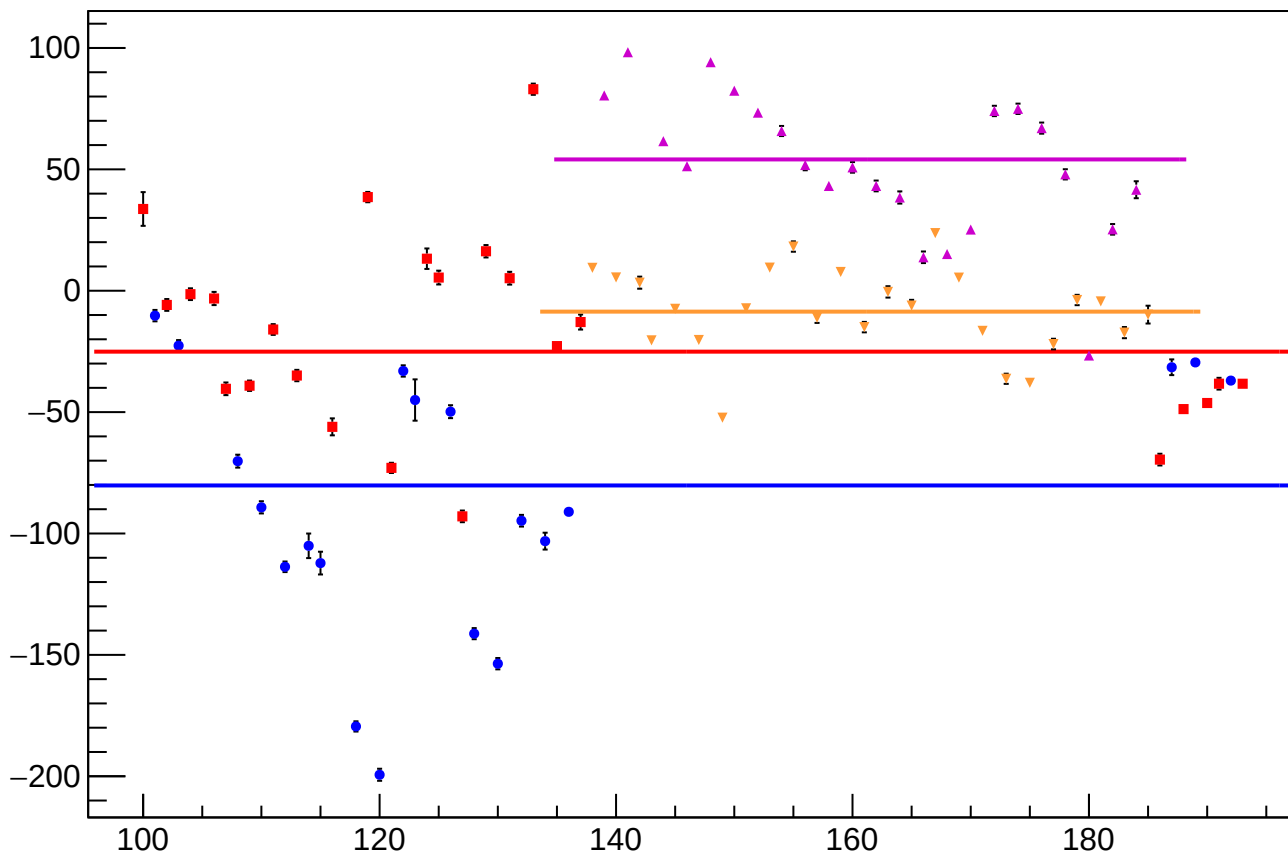
Right: 1284.798 $\pm$ 0.216 χ^2/NDF : 625199.3/43

In: 1344.619 $\pm$ 0.189 χ^2/NDF :481241.0/42

Out: 1351.019 $\pm$ 0.181 χ^2/NDF :578646.8/48

All: 1347.953 $\pm$ 0.131 χ^2/NDF : 1060486.6/91

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -80.211 ± 0.513 χ^2/NDF : 10972.8/19

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -25.092 ± 0.468 χ^2/NDF : 6360.5/23

Left In: 54.089 ± 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 ± 0.295 χ^2/NDF : 17900.0/47

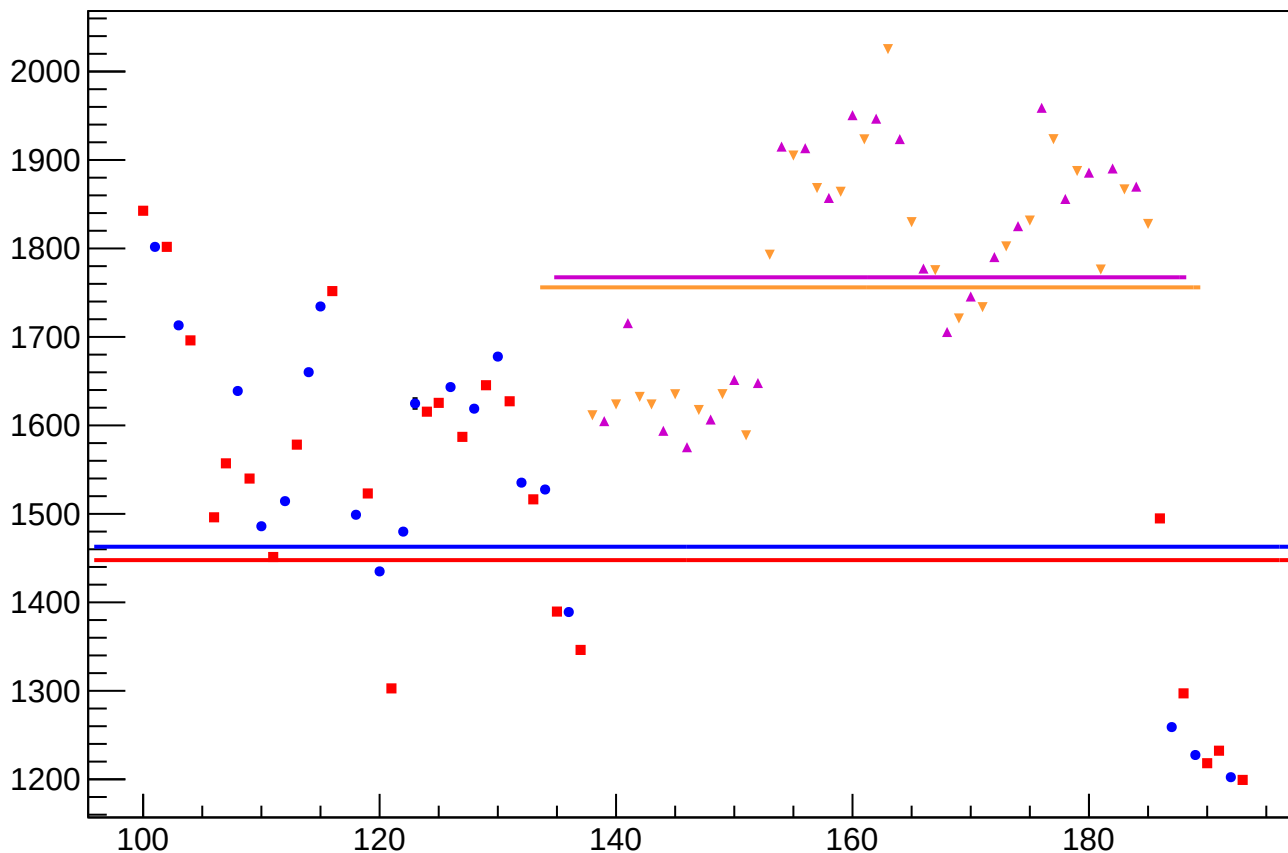
Right: -50.107 ± 0.346 χ^2/NDF : 23638.2/43

In: -0.668 ± 0.328 χ^2/NDF : 56285.3/42

Out: -15.775 ± 0.308 χ^2/NDF : 8993.4/48

All: -8.677 ± 0.225 χ^2/NDF : 66406.2/91

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1462.872 $\pm$ 0.363 χ^2 /NDF: 258353.3/19

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF:175762.3/24

Right Out: 1447.734 $\pm$ 0.331 χ^2 /NDF: 282379.1/23

Left In: 1767.410 $\pm$ 0.301 χ^2 /NDF:187958.2/22

Left: 1761.512 $\pm$ 0.209 χ^2 /NDF: 364461.2/47

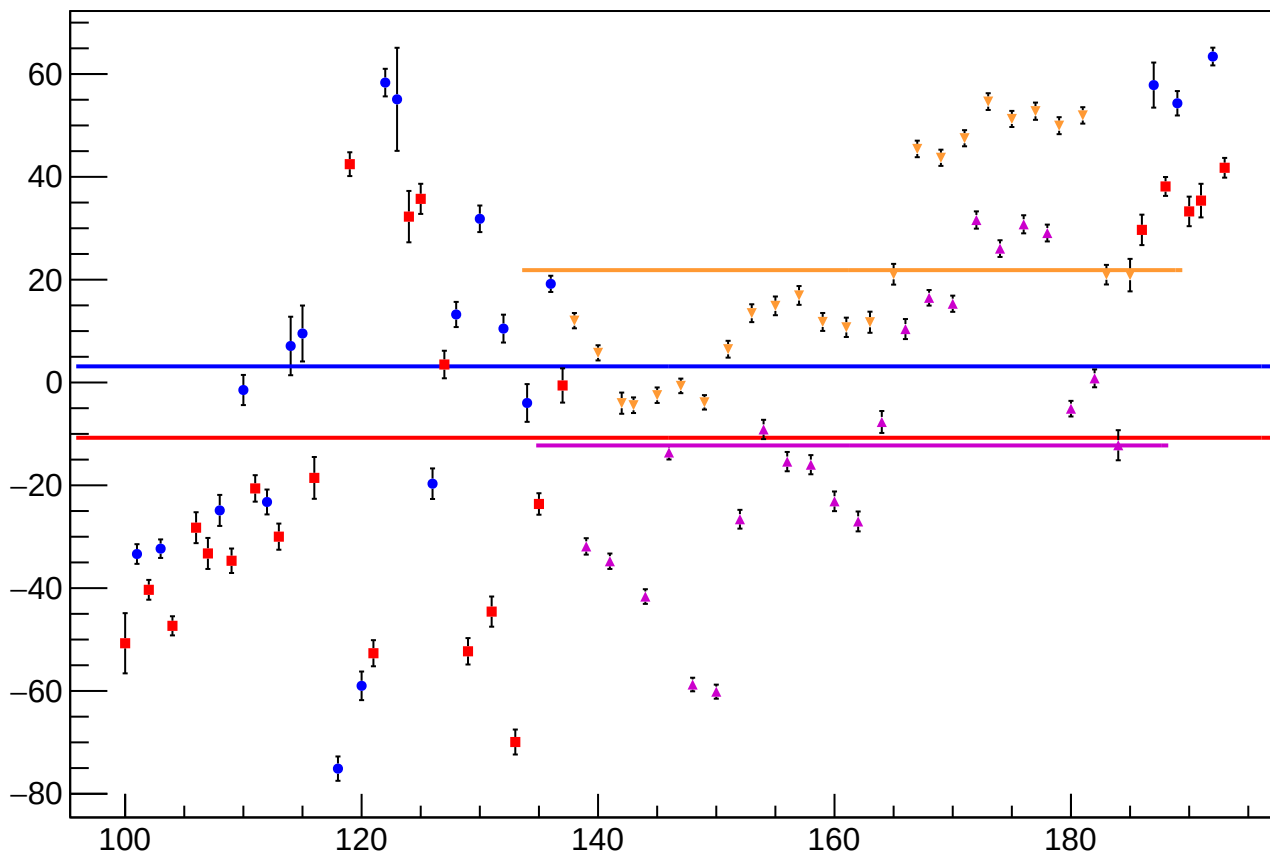
Right: 1454.604 $\pm$ 0.244 χ^2 /NDF: 541683.6/43

In: 1643.244 $\pm$ 0.232 χ^2 /NDF:863749.9/42

Out: 1621.964 $\pm$ 0.218 χ^2 /NDF:949391.9/48

All: 1631.963 $\pm$ 0.159 χ^2 /NDF: 1817616.7/91

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 3.137+/-0.567 χ^2/NDF : 5156.3/19

Left Out: 21.856+/-0.335 χ^2/NDF : 4110.5/24

Right Out: -10.750+/-0.524 χ^2/NDF : 5201.4/23

Left In: -12.246+/-0.347 χ^2/NDF : 6781.6/22

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

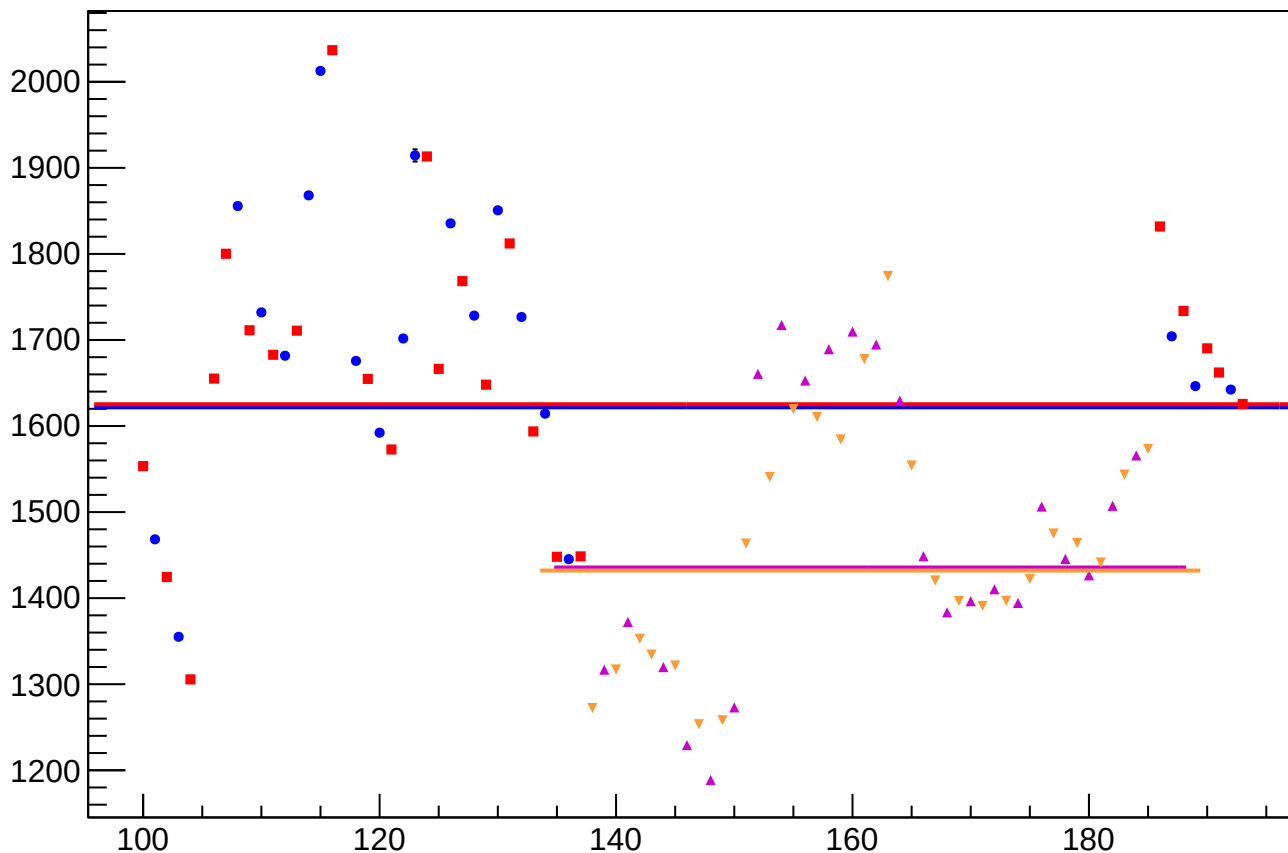
Right: -4.356+/-0.385 χ^2/NDF : 10681.0/43

In: -8.058+/-0.296 χ^2/NDF : 12472.8/42

Out: 12.386+/-0.282 χ^2/NDF : 12058.0/48

All: 2.645+/-0.204 χ^2/NDF : 27027.0/91

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1621.762 $\pm$ 0.401 χ^2 /NDF: 150590.3/19

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1625.292 $\pm$ 0.371 χ^2 /NDF: 174790.5/23

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

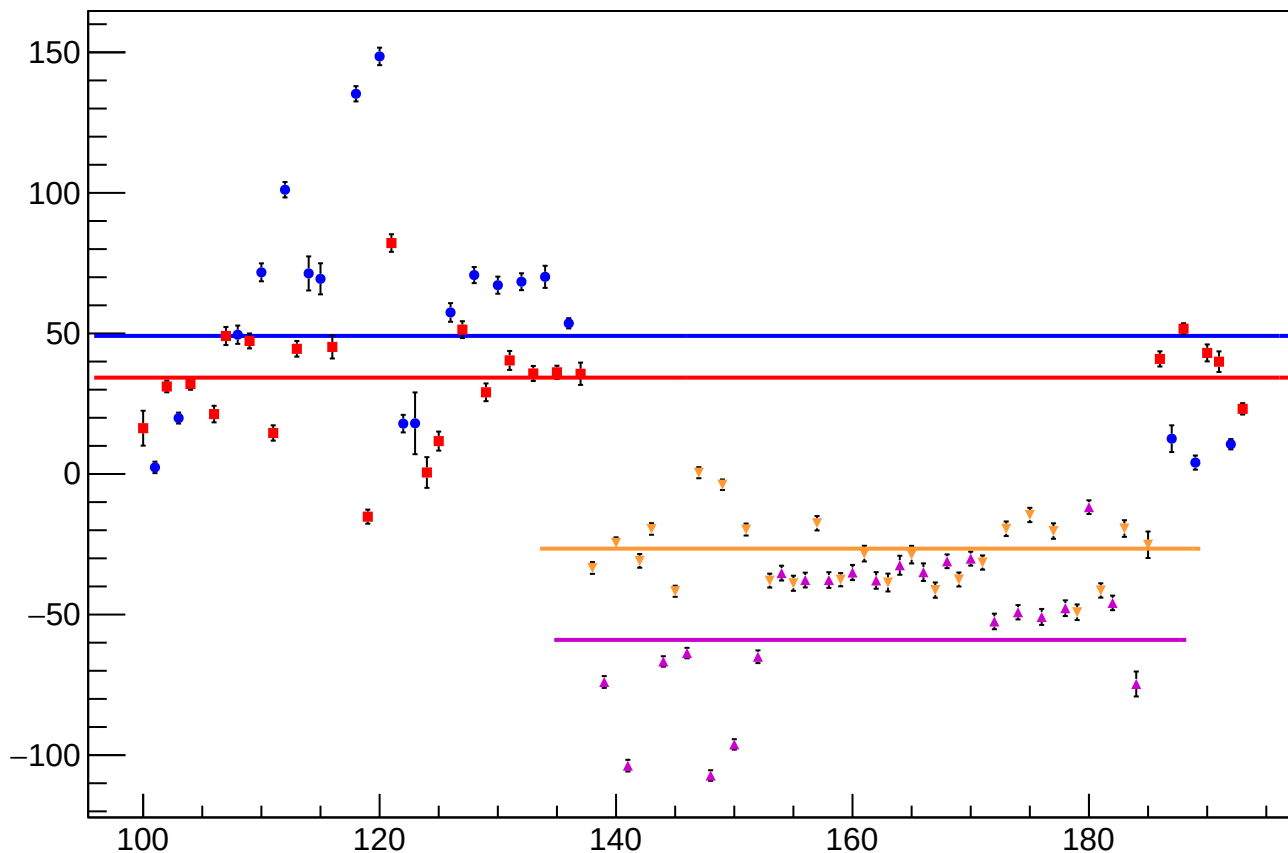
Right: 1623.667 $\pm$ 0.272 χ^2 /NDF: 325422.6/43

In: 1486.316 $\pm$ 0.209 χ^2 /NDF: 728021.0/42

Out: 1488.181 $\pm$ 0.200 χ^2 /NDF: 665044.5/48

All: 1487.292 $\pm$ 0.145 χ^2 /NDF: 1393107.0/91

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 49.124 ± 0.628 $\chi^2/\text{NDF}: 4317.8/19$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: 34.281 ± 0.570 $\chi^2/\text{NDF}: 1023.2/23$

Left In: -59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

Left: -42.178 ± 0.351 $\chi^2/\text{NDF}: 5632.2/47$

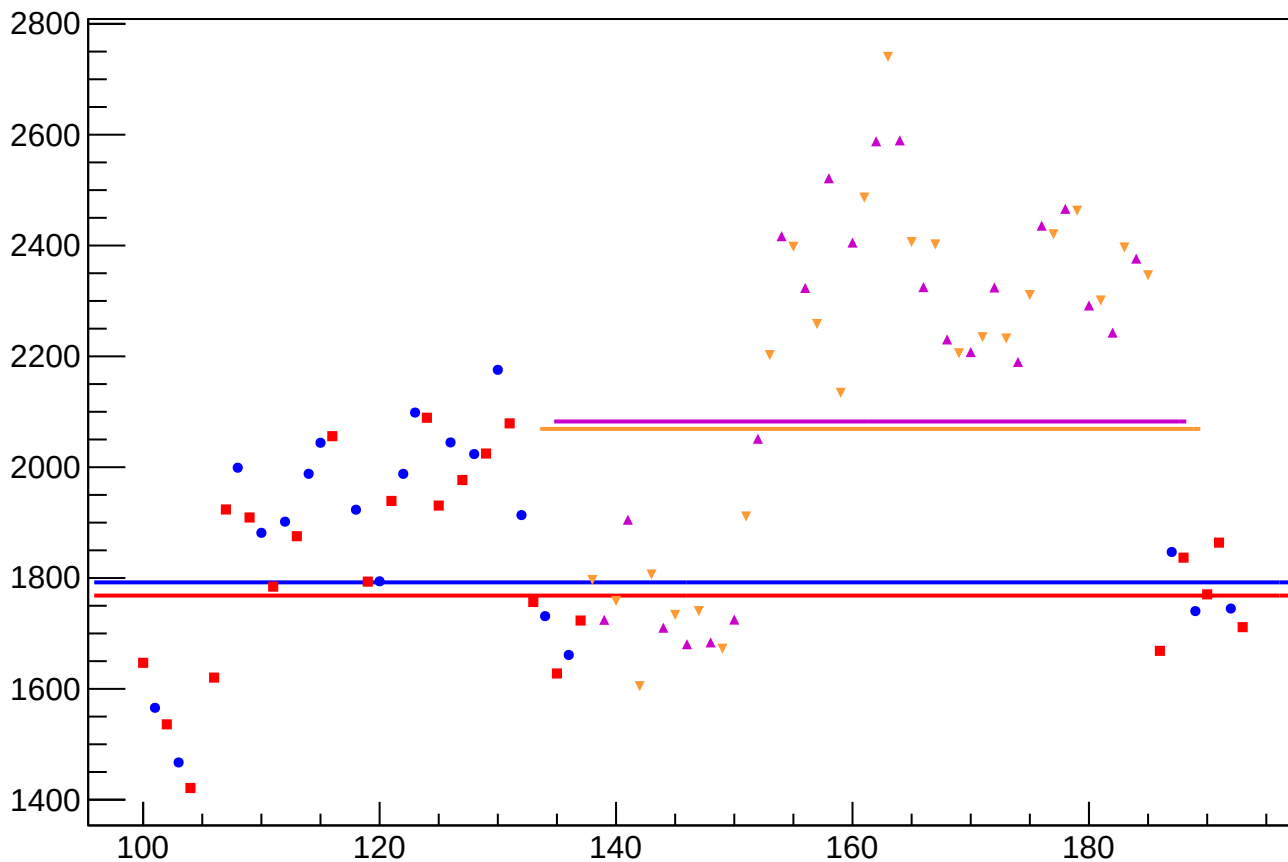
Right: 40.993 ± 0.422 $\chi^2/\text{NDF}: 5647.5/43$

In: -16.369 ± 0.394 $\chi^2/\text{NDF}: 25082.9/42$

Out: -0.841 ± 0.371 $\chi^2/\text{NDF}: 8313.0/48$

All: -8.130 ± 0.270 $\chi^2/\text{NDF}: 34219.6/91$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1792.175+/-0.444 χ^2/NDF : 186391.2/19

Left Out: 2069.146+/-0.345 χ^2/NDF : 799037.9/24

Right Out: 1768.359+/-0.403 χ^2/NDF : 185974.7/23

Left In: 2082.497+/-0.358 χ^2/NDF : 785304.0/22

Left: 2075.572+/-0.248 χ^2/NDF : 1585062.9/47

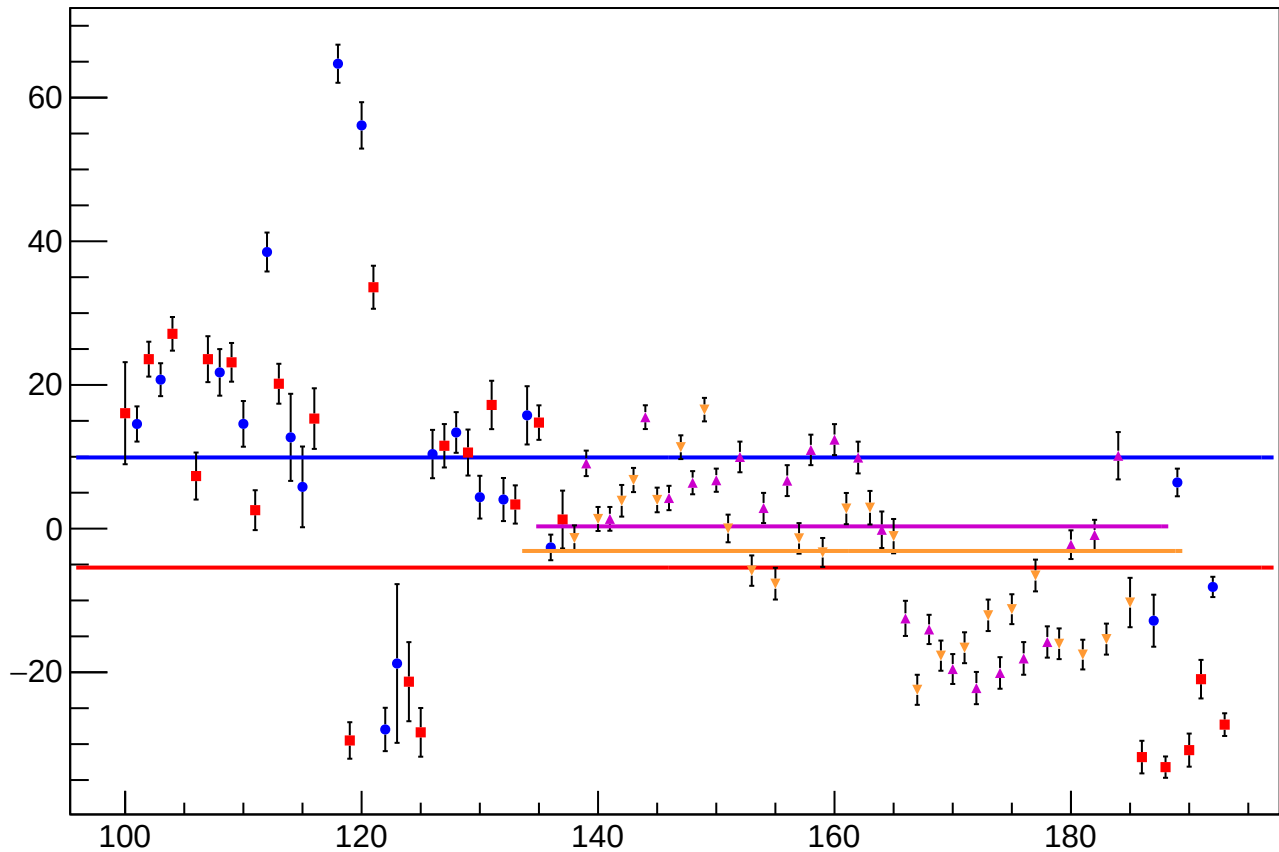
Right: 1779.128+/-0.298 χ^2/NDF : 373943.7/43

In: 1968.008+/-0.279 χ^2/NDF : 1230904.1/42

Out: 1942.011+/-0.262 χ^2/NDF : 1306349.2/48

All: 1954.214+/-0.191 χ^2/NDF : 2541870.8/91

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 9.908 $\pm$ 0.602 χ^2/NDF : 1215.2/19

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF :643.7/24

Right Out: -5.425 $\pm$ 0.538 χ^2/NDF : 2003.4/23

Left In: 0.312 $\pm$ 0.421 χ^2/NDF :736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

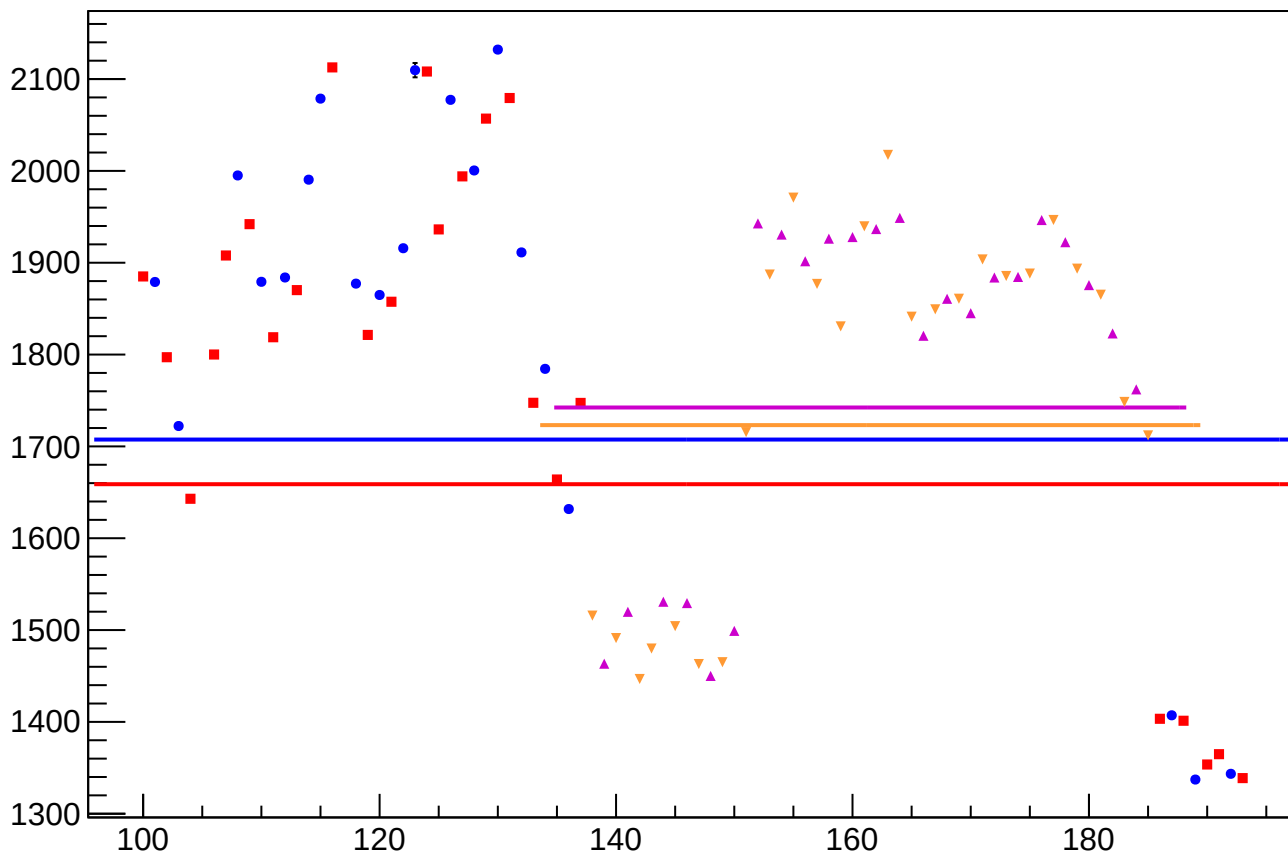
Right: 1.393 $\pm$ 0.401 χ^2/NDF : 3579.3/43

In: 3.466 $\pm$ 0.345 χ^2/NDF :2122.5/42

Out: -3.946 $\pm$ 0.323 χ^2/NDF :2659.0/48

All: -0.480 $\pm$ 0.236 χ^2/NDF : 5027.2/91

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1707.453 ± 0.425 $\chi^2/\text{NDF}: 398463.1/19$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1658.828 ± 0.381 $\chi^2/\text{NDF}: 448233.6/23$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

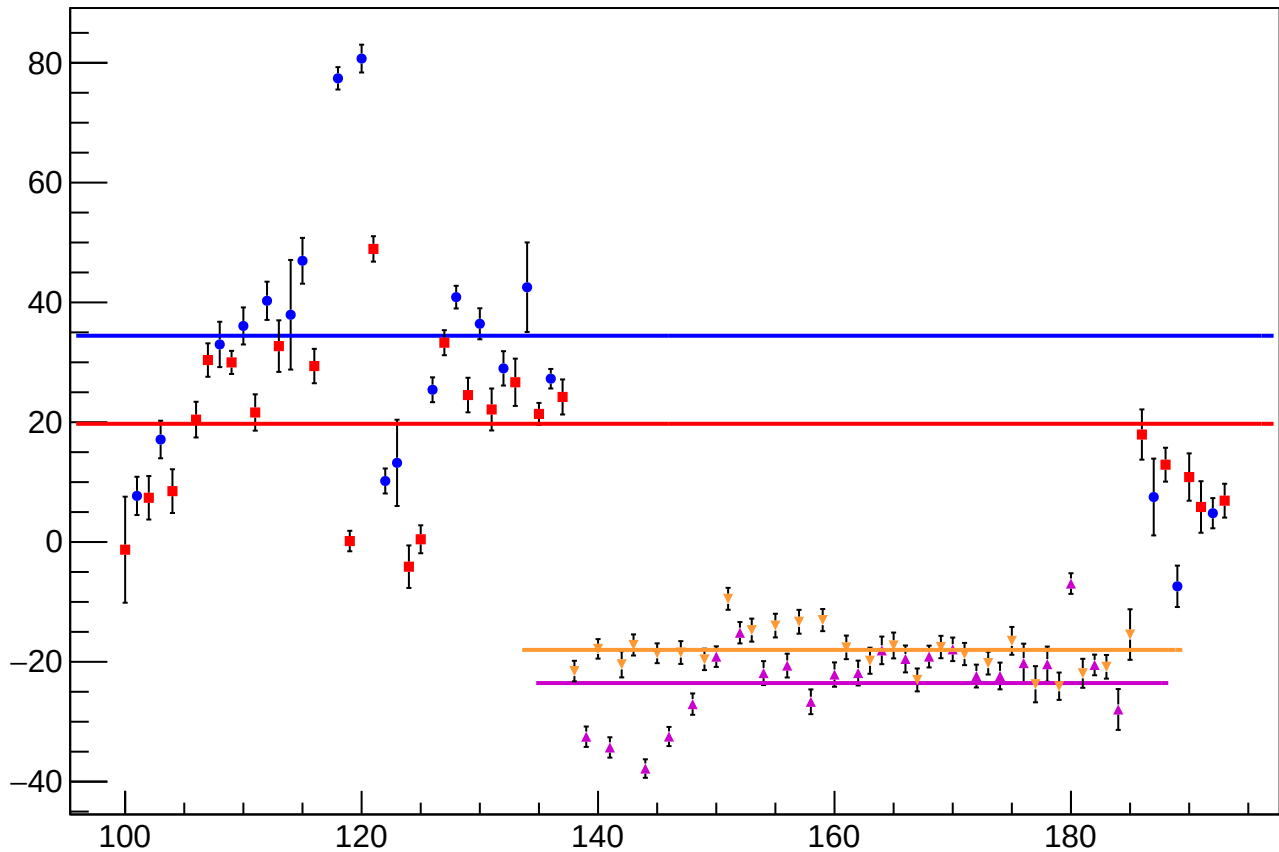
Right: 1680.449 ± 0.284 $\chi^2/\text{NDF}: 853949.6/43$

In: 1730.881 ± 0.244 $\chi^2/\text{NDF}: 838821.1/42$

Out: 1699.975 ± 0.229 $\chi^2/\text{NDF}: 943938.8/48$

All: 1714.424 ± 0.167 $\chi^2/\text{NDF}: 1791306.5/91$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 34.437 ± 0.607 χ^2/NDF : 1542.2/19

Left Out: -18.007 ± 0.397 χ^2/NDF : 73.8/24

Right Out: 19.736 ± 0.566 χ^2/NDF : 617.7/23

Left In: -23.544 ± 0.406 χ^2/NDF : 346.7/22

Left: -20.714 ± 0.284 χ^2/NDF : 515.7/47

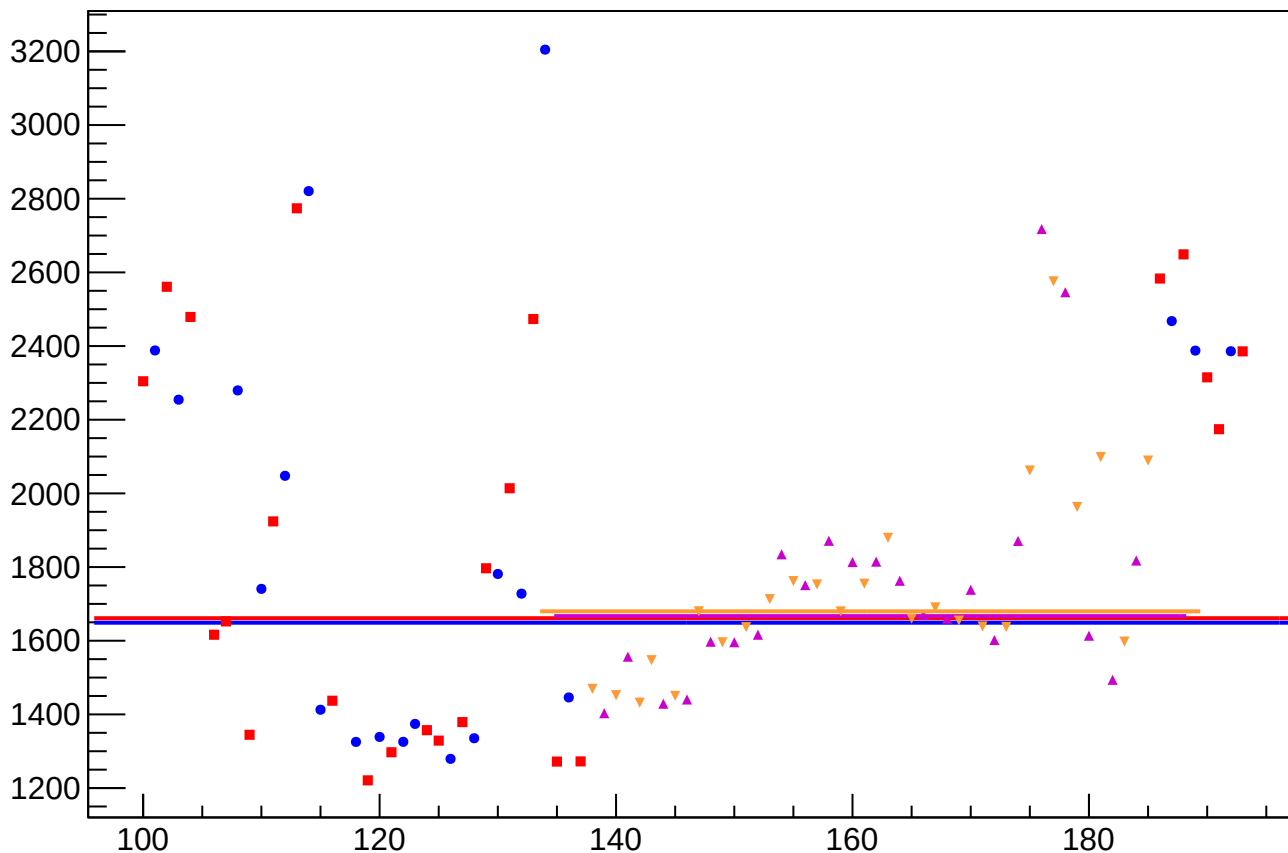
Right: 26.583 ± 0.414 χ^2/NDF : 2473.6/43

In: -5.631 ± 0.337 χ^2/NDF : 8200.5/42

Out: -5.588 ± 0.325 χ^2/NDF : 3670.2/48

All: -5.609 ± 0.234 χ^2/NDF : 11870.8/91

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1648.984 $\pm$ 0.429 χ^2 /NDF: 995480.5/19

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1661.161 $\pm$ 0.401 χ^2 /NDF: 1521780.3/23

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

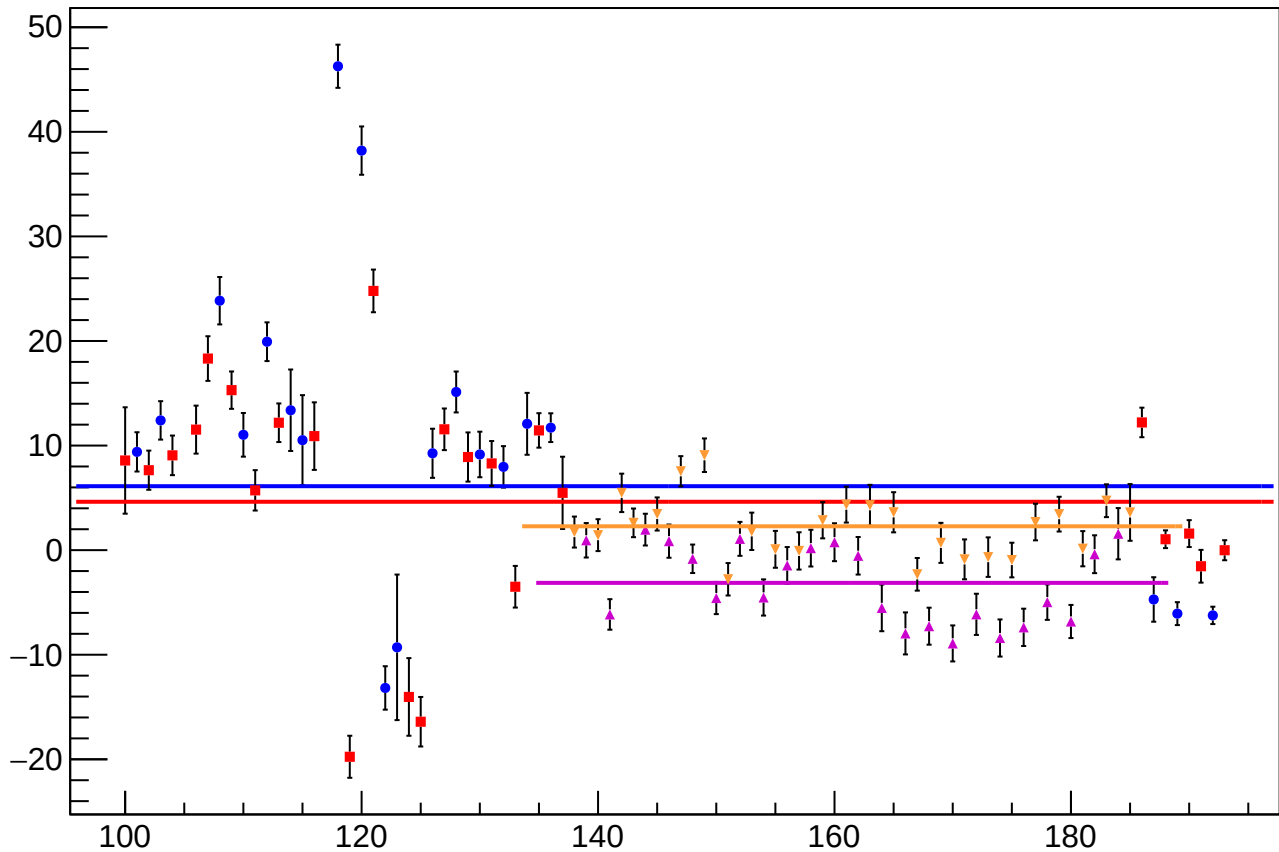
Right: 1655.490 $\pm$ 0.293 χ^2 /NDF: 2517691.3/43

In: 1661.309 $\pm$ 0.238 χ^2 /NDF: 1647665.6/42

Out: 1673.677 $\pm$ 0.230 χ^2 /NDF: 2046031.0/48

All: 1667.722 $\pm$ 0.165 χ^2 /NDF: 3695091.7/91

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 6.115 ± 0.403 $\chi^2/\text{NDF}: 1221.9/19$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 4.626 ± 0.352 $\chi^2/\text{NDF}: 607.7/23$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

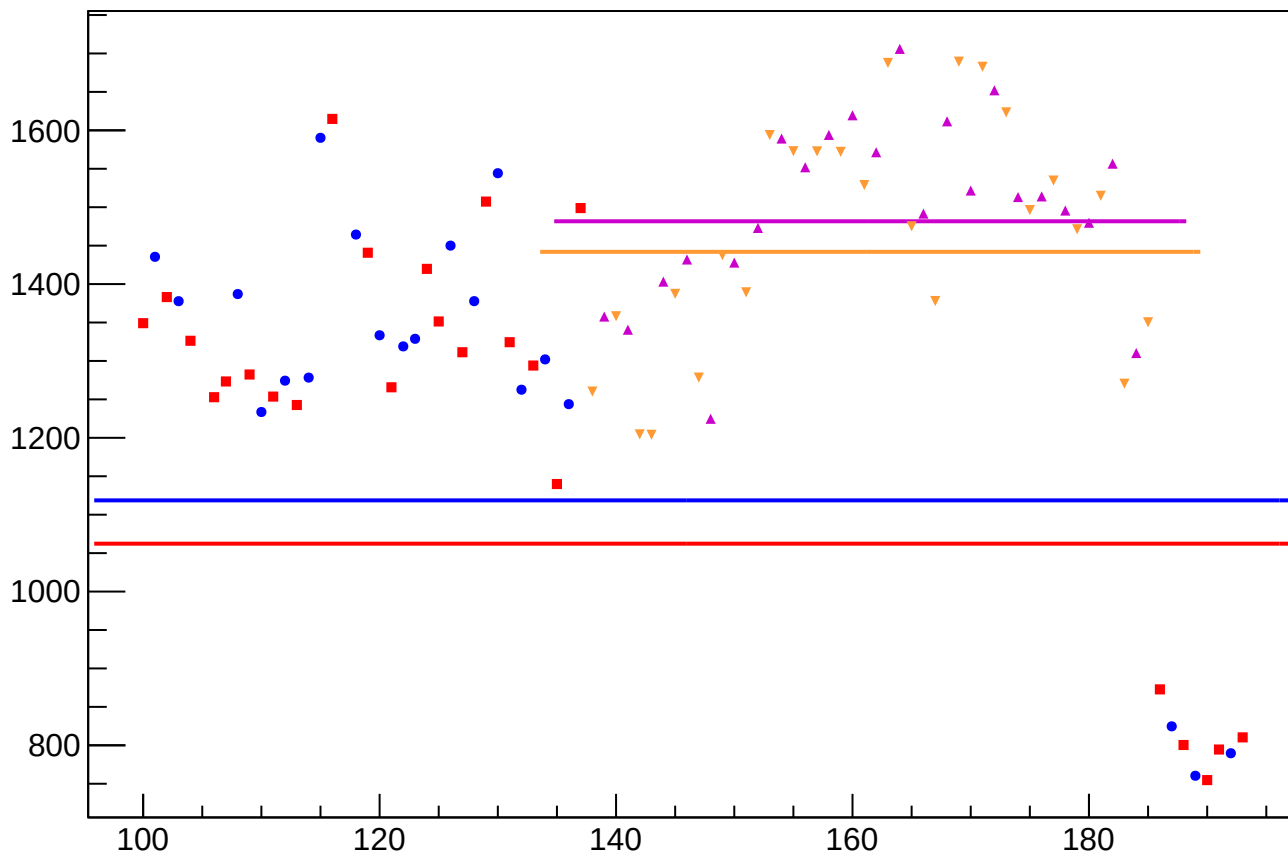
Right: 5.270 ± 0.265 $\chi^2/\text{NDF}: 1837.4/43$

In: 0.939 ± 0.268 $\chi^2/\text{NDF}: 1619.2/42$

Out: 3.406 ± 0.244 $\chi^2/\text{NDF}: 706.4/48$

All: 2.287 ± 0.180 $\chi^2/\text{NDF}: 2372.1/91$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1118.623 $\pm$ 0.285 χ^2/NDF : 1017903.2/19

Left Out: 1441.951 $\pm$ 0.239 χ^2/NDF : 370617.4/24

Right Out: 1062.307 $\pm$ 0.249 χ^2/NDF : 1138345.6/23

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

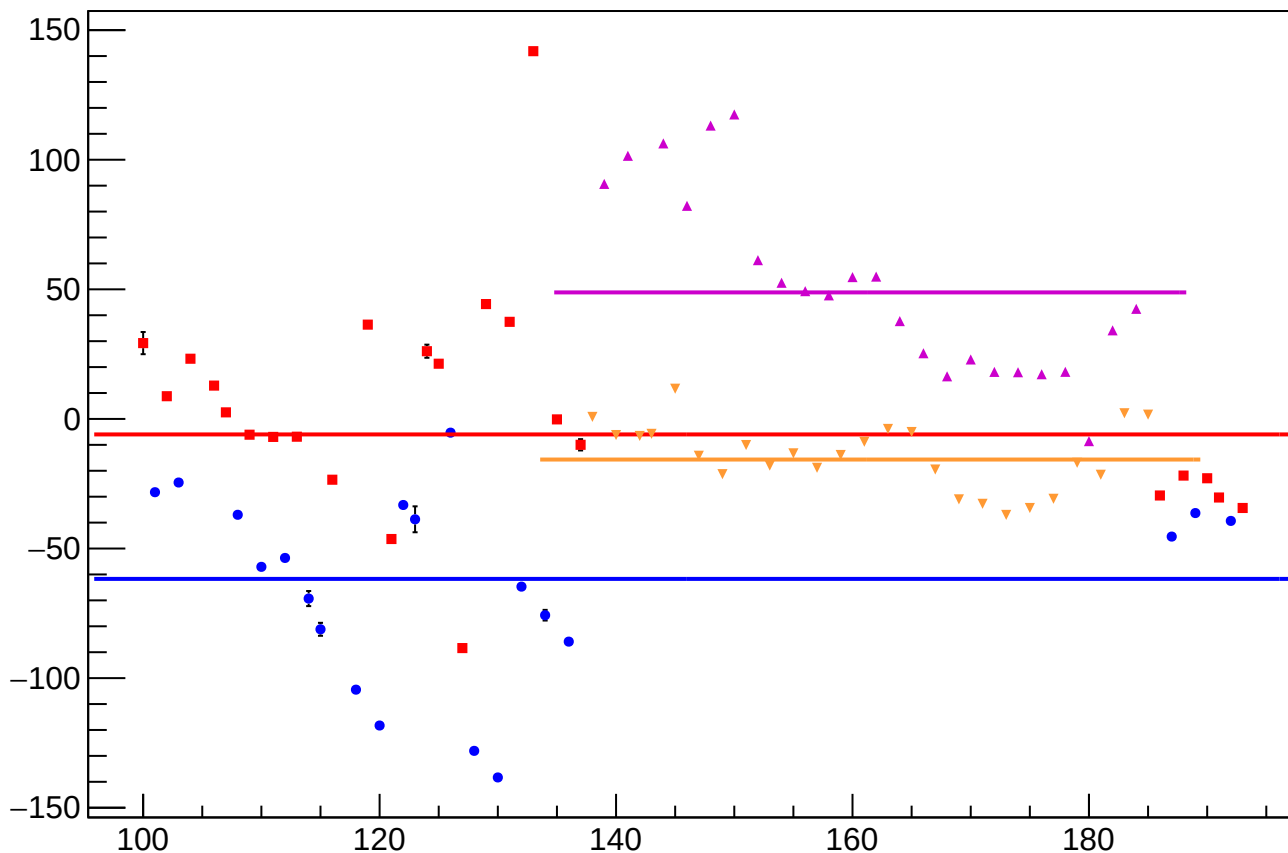
Right: 1086.649 $\pm$ 0.188 χ^2/NDF : 2178376.4/43

In: 1321.925 $\pm$ 0.189 χ^2/NDF : 2133432.6/42

Out: 1259.695 $\pm$ 0.172 χ^2/NDF : 2718525.7/48

All: 1287.930 $\pm$ 0.127 χ^2/NDF : 4911033.3/91

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -61.717 ± 0.298 $\chi^2/\text{NDF}: 14427.2/19$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -5.978 ± 0.265 $\chi^2/\text{NDF}: 23319.9/23$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

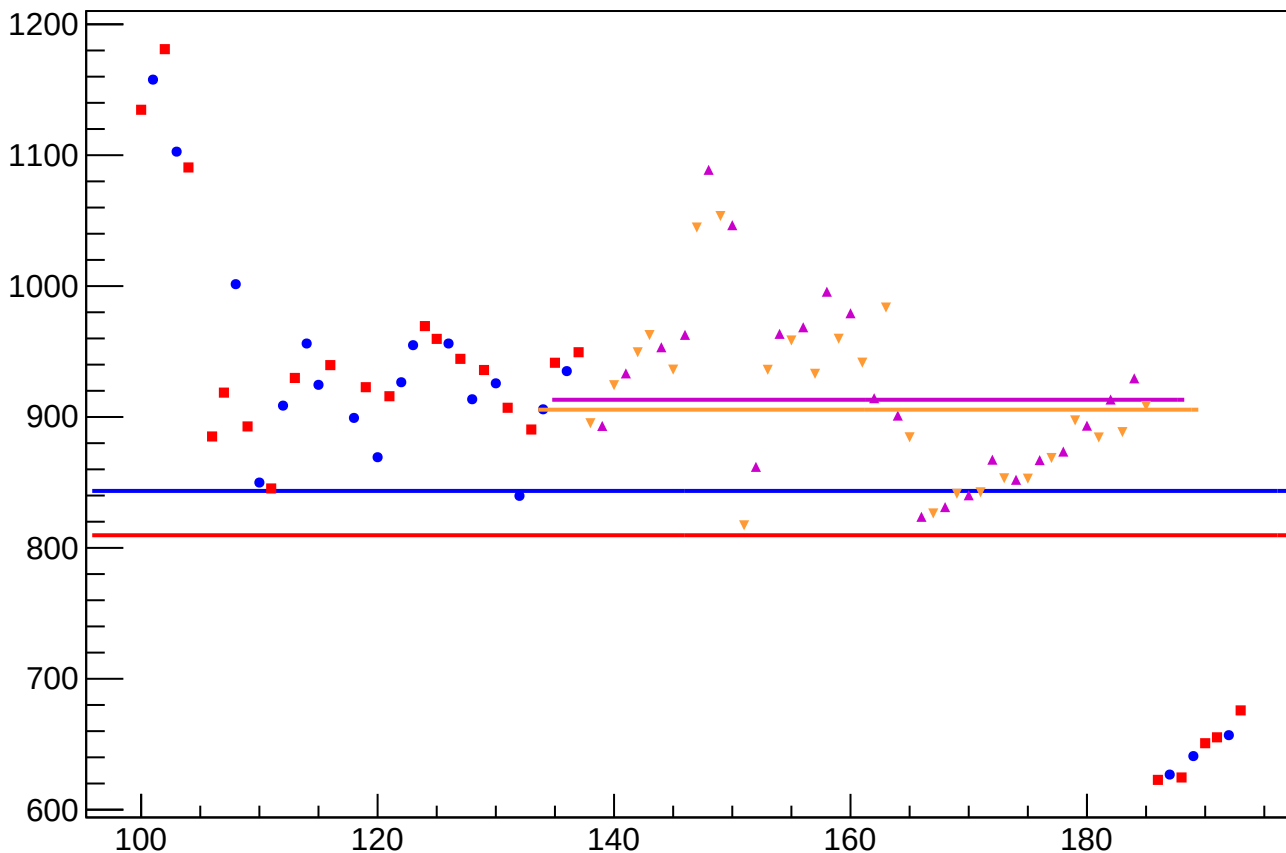
Right: -30.527 ± 0.198 $\chi^2/\text{NDF}: 57302.8/43$

In: 9.878 ± 0.177 $\chi^2/\text{NDF}: 128702.9/42$

Out: -11.888 ± 0.165 $\chi^2/\text{NDF}: 27656.2/48$

All: -1.752 ± 0.121 $\chi^2/\text{NDF}: 164442.9/91$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 843.523 ± 0.211 χ^2/NDF : 511276.9/19

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 809.656 ± 0.187 χ^2/NDF : 711869.1/23

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

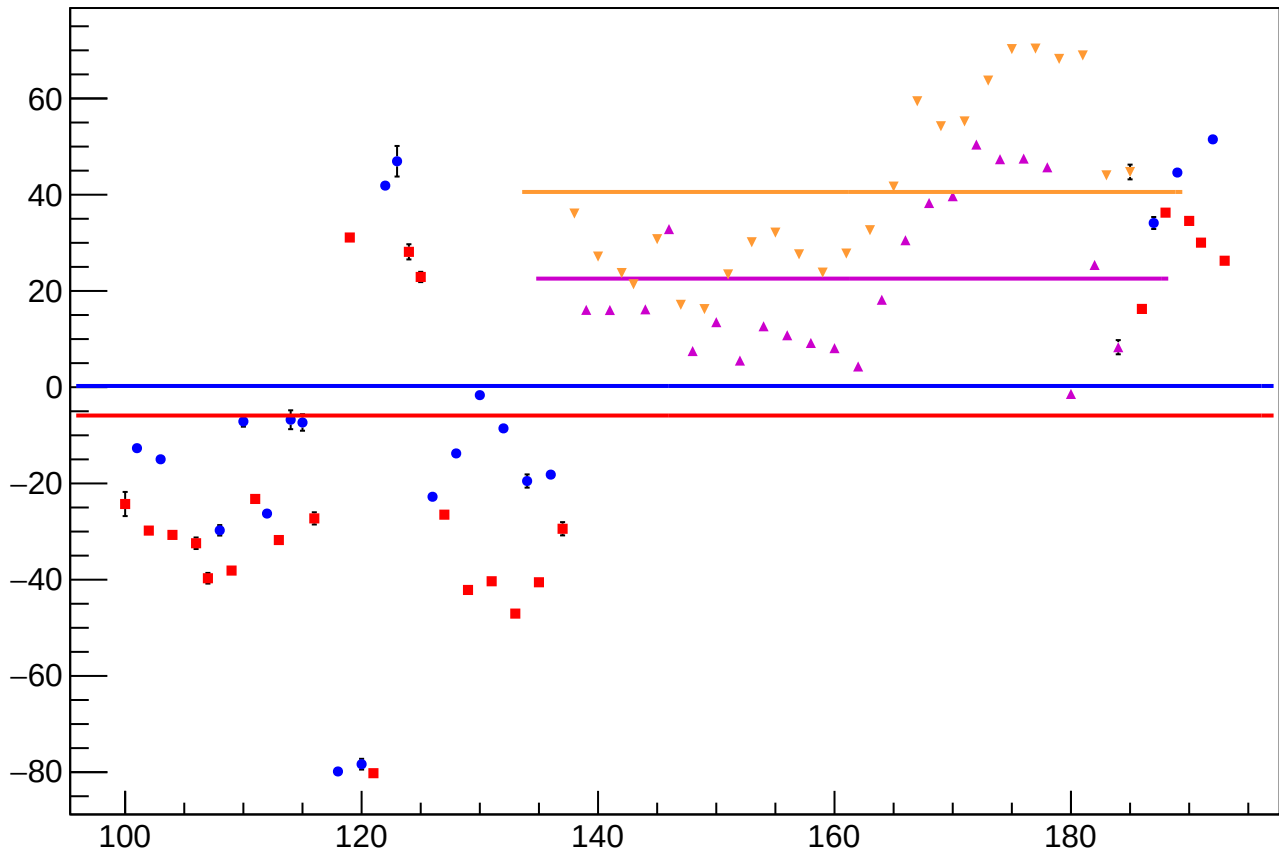
Right: 824.572 ± 0.140 χ^2/NDF : 1237585.9/43

In: 888.634 ± 0.125 χ^2/NDF : 756392.0/42

Out: 868.167 ± 0.117 χ^2/NDF : 1034369.3/48

All: 877.697 ± 0.085 χ^2/NDF : 1805056.6/91

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 0.255+/-0.205 χ^2/NDF : 34522.8/19

Left Out: 40.573+/-0.168 χ^2/NDF : 12079.0/24

Right Out: -5.887+/-0.185 χ^2/NDF : 36475.4/23

Left In: 22.565+/-0.175 χ^2/NDF : 8167.7/22

Left: 31.959+/-0.121 χ^2/NDF : 25752.7/47

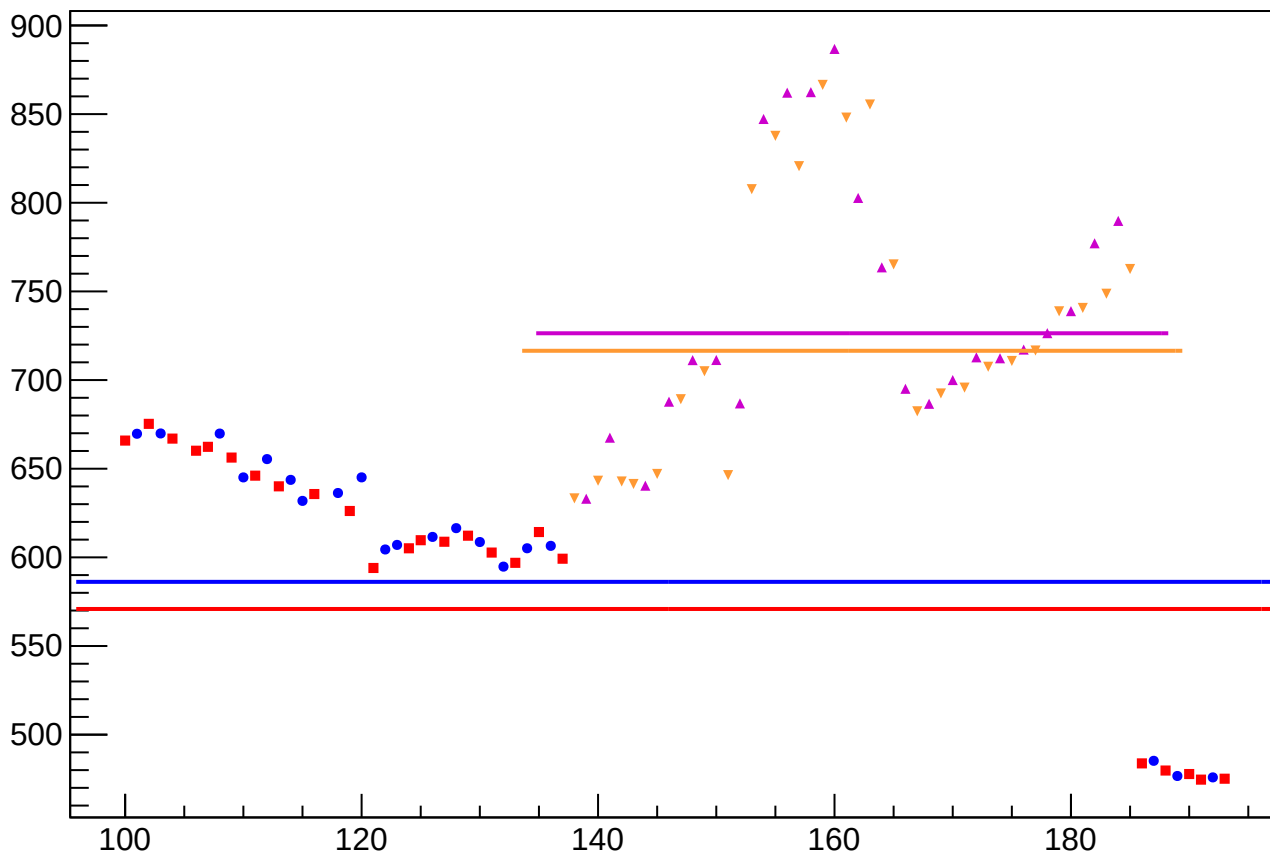
Right: -3.142+/-0.137 χ^2/NDF : 71492.7/43

In: 13.167+/-0.133 χ^2/NDF : 49514.9/42

Out: 19.552+/-0.124 χ^2/NDF : 83222.3/48

All: 16.586+/-0.091 χ^2/NDF : 133965.0/91

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 586.187 ± 0.145 $\chi^2/\text{NDF}: 249203.7/19$

Left Out: 716.515 ± 0.119 $\chi^2/\text{NDF}: 342740.2/24$

Right Out: 570.887 ± 0.131 $\chi^2/\text{NDF}: 343673.3/23$

Left In: 726.390 ± 0.124 $\chi^2/\text{NDF}: 289788.8/22$

Left: 721.238 ± 0.086 $\chi^2/\text{NDF}: 635840.6/47$

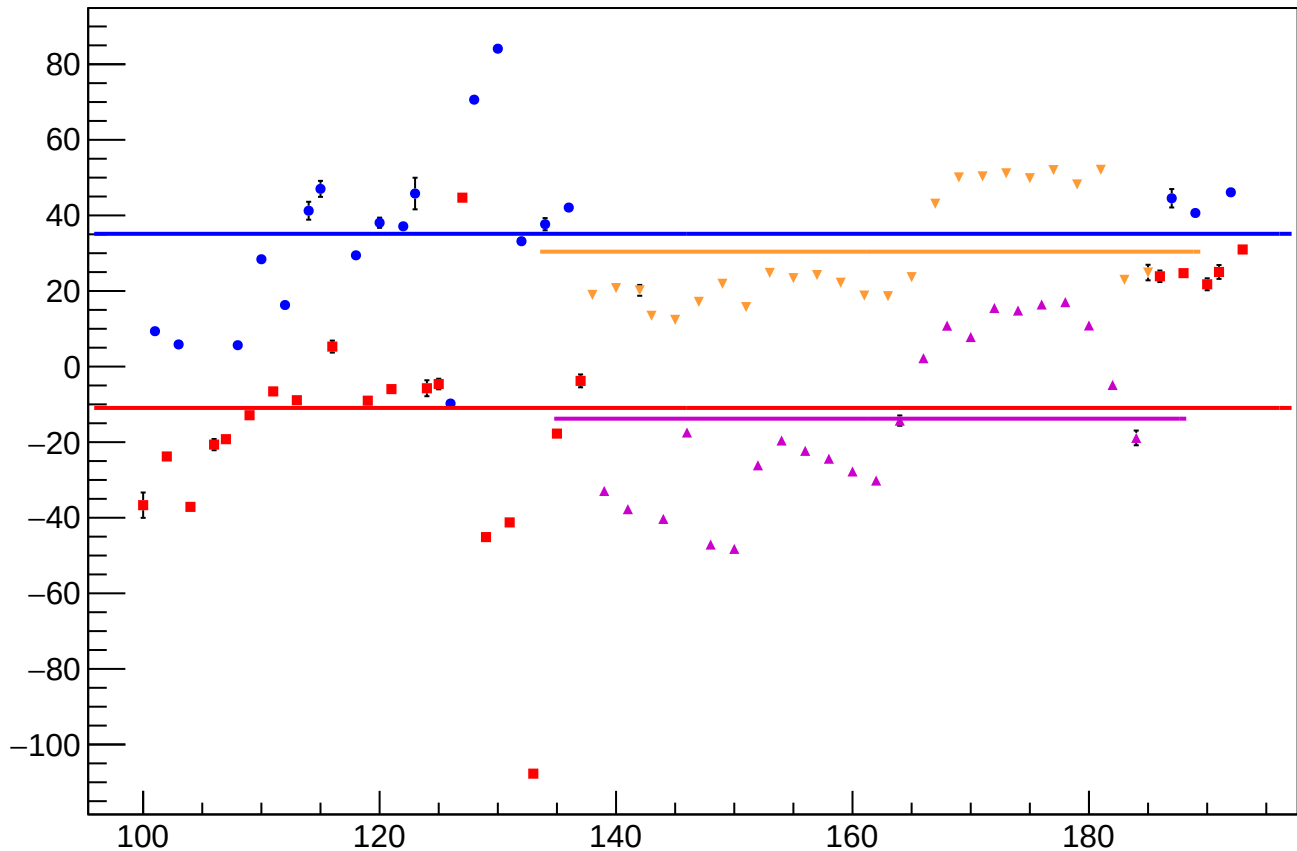
Right: 577.723 ± 0.097 $\chi^2/\text{NDF}: 599012.7/43$

In: 667.329 ± 0.094 $\chi^2/\text{NDF}: 1078020.4/42$

Out: 650.627 ± 0.088 $\chi^2/\text{NDF}: 1367643.9/48$

All: 658.385 ± 0.064 $\chi^2/\text{NDF}: 2462466.2/91$

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 35.136+/-0.279 χ^2/NDF : 6607.5/19

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -10.943+/-0.262 χ^2/NDF : 16359.4/23

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

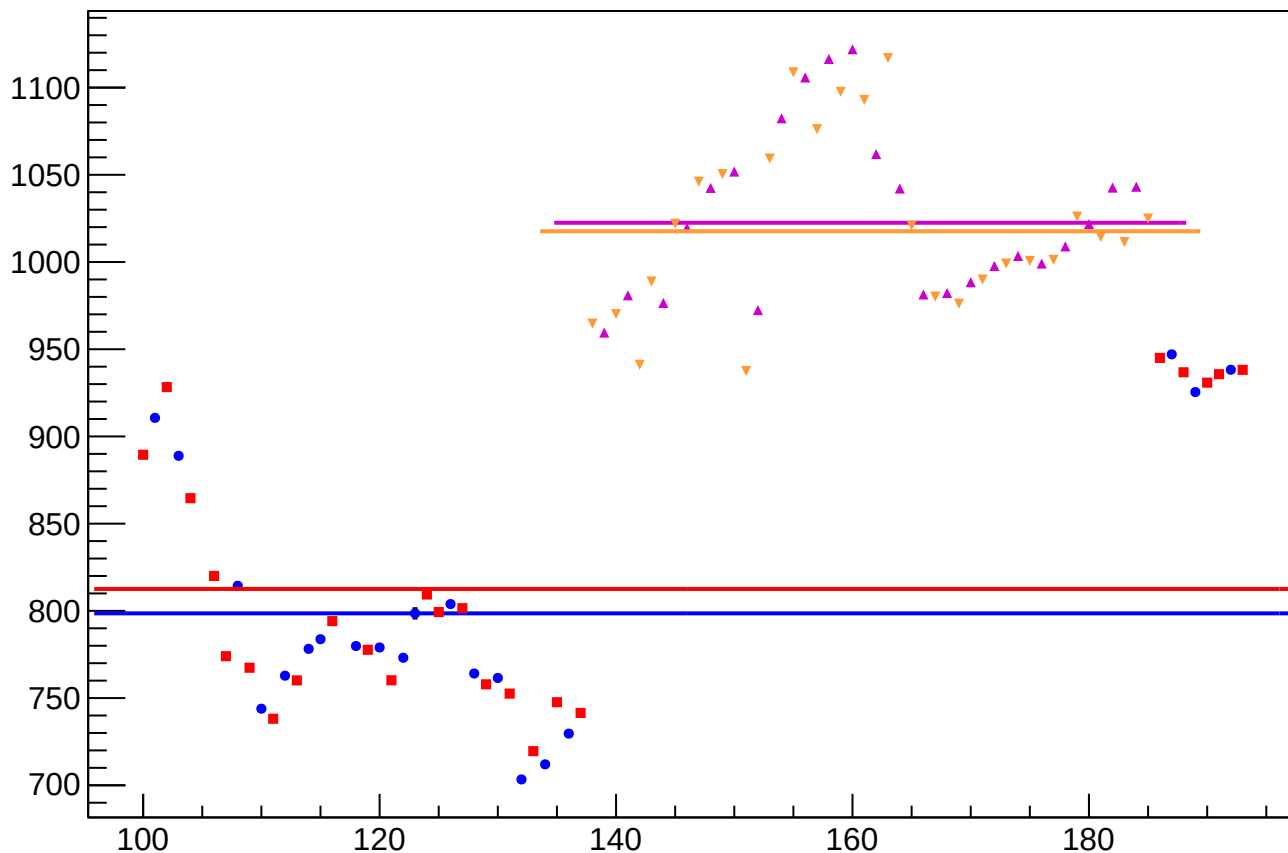
Right: 10.618+/-0.191 χ^2/NDF : 37474.5/43

In: 7.590+/-0.184 χ^2/NDF : 31892.8/42

Out: 11.741+/-0.176 χ^2/NDF : 33864.3/48

All: 9.765+/-0.127 χ^2/NDF : 66022.4/91

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 798.570 ± 0.197 χ^2/NDF : 143657.9/19

Left Out: 1017.653 ± 0.168 χ^2/NDF : 83612.5/24

Right Out: 812.551 ± 0.185 χ^2/NDF : 173059.3/23

Left In: 1022.511 ± 0.174 χ^2/NDF : 69635.5/22

Left: 1019.997 ± 0.121 χ^2/NDF : 153652.2/47

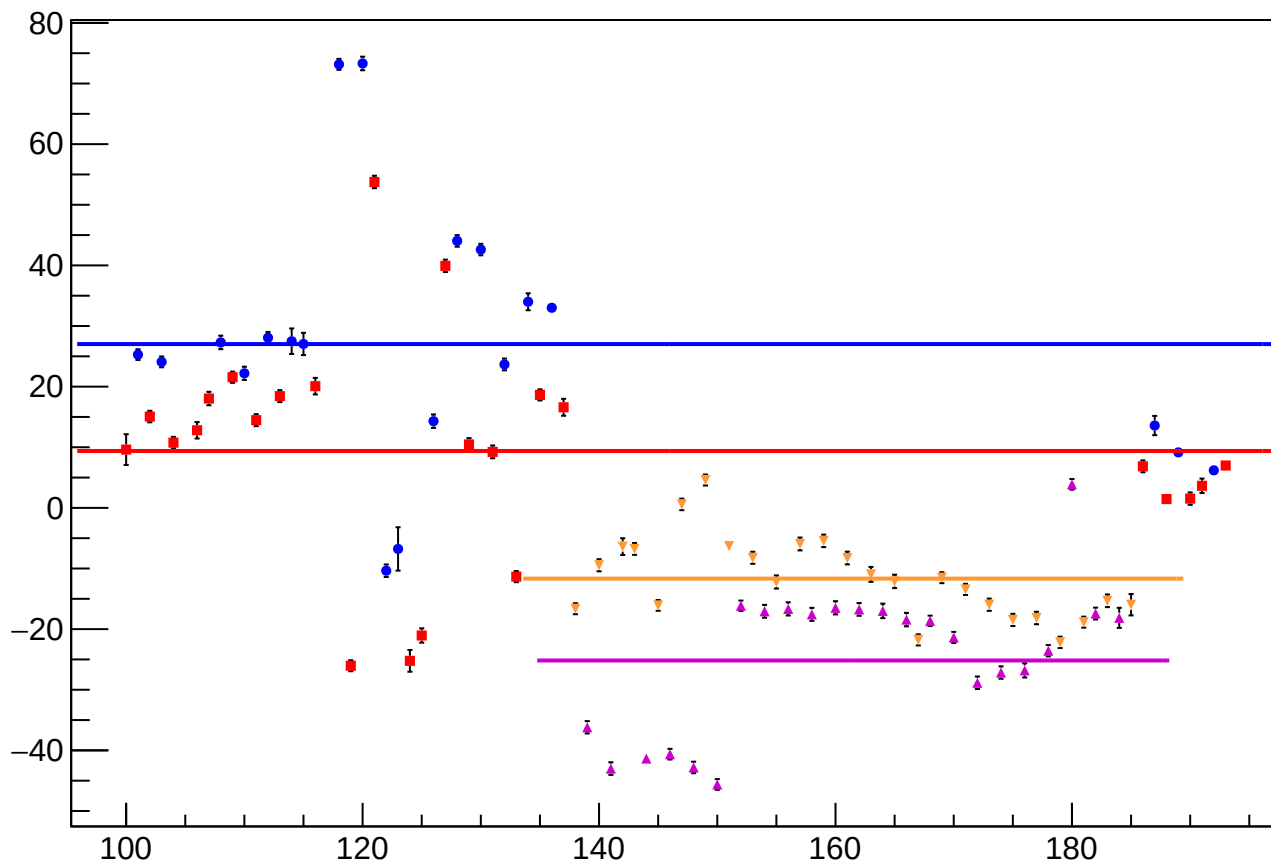
Right: 806.009 ± 0.135 χ^2/NDF : 319388.4/43

In: 924.661 ± 0.130 χ^2/NDF : 938498.0/42

Out: 925.063 ± 0.124 χ^2/NDF : 930592.4/48

All: 924.871 ± 0.090 χ^2/NDF : 1869095.3/91

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 27.021 $\pm$ 0.223 χ^2/NDF : 8230.6/19

Left Out: -11.664 $\pm$ 0.200 χ^2/NDF : 1147.4/24

Right Out: 9.387 $\pm$ 0.206 χ^2/NDF : 6656.3/23

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

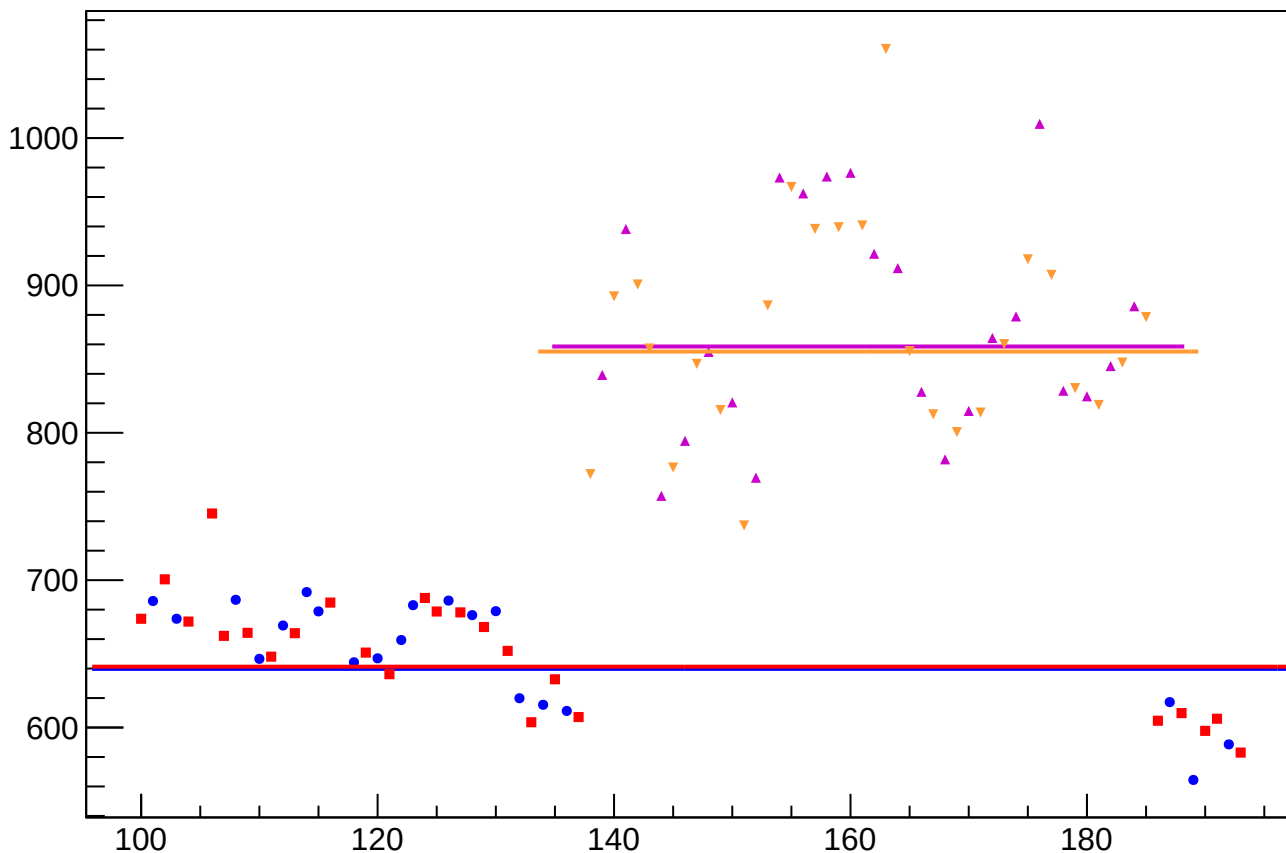
Right: 17.502 $\pm$ 0.151 χ^2/NDF : 18257.1/43

In: -0.989 $\pm$ 0.152 χ^2/NDF : 41331.0/42

Out: -1.437 $\pm$ 0.144 χ^2/NDF : 13170.5/48

All: -1.226 $\pm$ 0.104 χ^2/NDF : 54506.0/91

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 639.797 ± 0.158 χ^2/NDF : 62828.3/19

Left Out: 855.131 ± 0.142 χ^2/NDF : 233746.7/24

Right Out: 641.288 ± 0.146 χ^2/NDF : 66800.4/23

Left In: 858.563 ± 0.147 χ^2/NDF : 239019.8/22

Left: 856.788 ± 0.102 χ^2/NDF : 473049.9/47

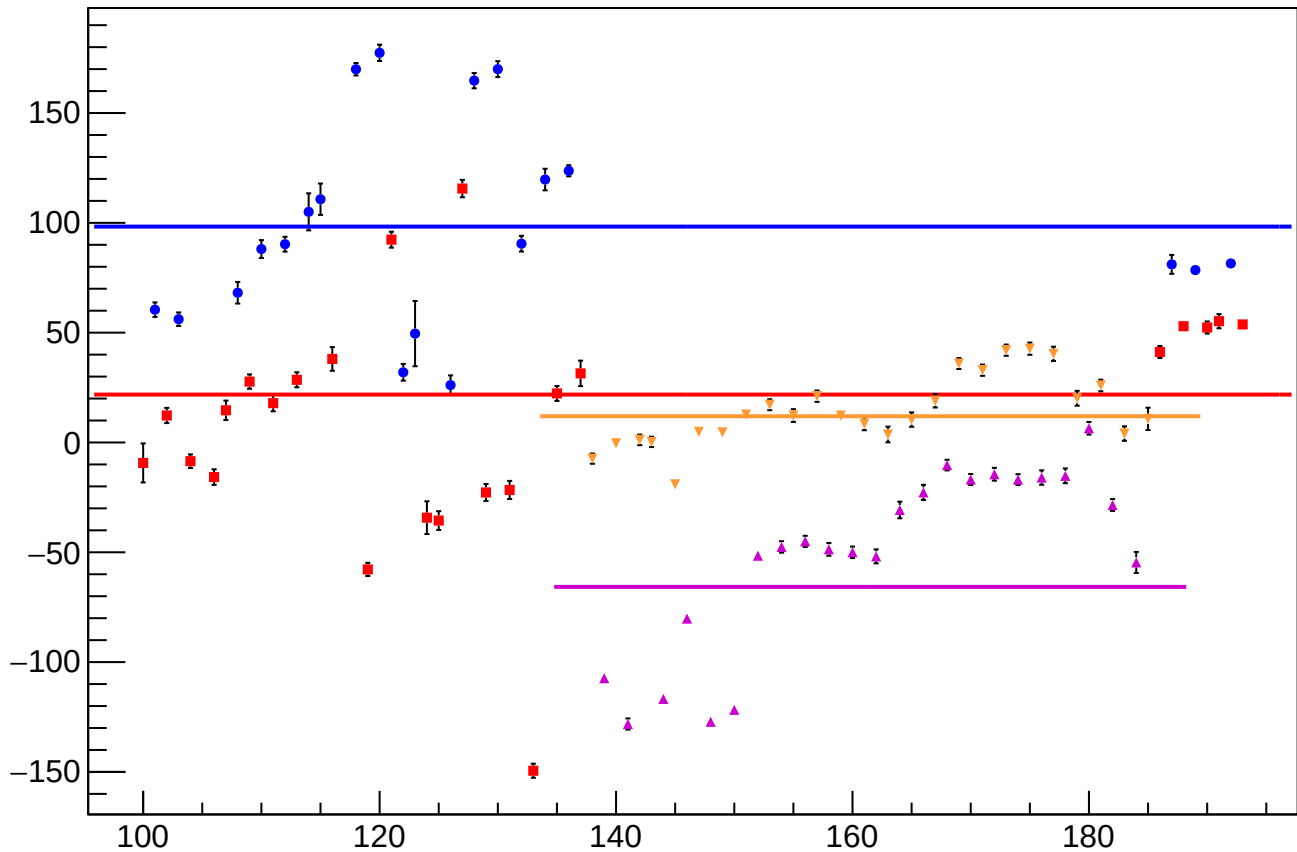
Right: 640.602 ± 0.107 χ^2/NDF : 129677.0/43

In: 757.196 ± 0.107 χ^2/NDF : 1333183.9/42

Out: 751.247 ± 0.102 χ^2/NDF : 1408153.6/48

All: 754.055 ± 0.074 χ^2/NDF : 2742957.1/91

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 98.291+/-0.745 χ^2/NDF : 3122.7/19

Left Out: 11.938+/-0.505 χ^2/NDF : 976.6/24

Right Out: 21.807+/-0.664 χ^2/NDF : 6106.5/23

Left In: -65.752+/-0.518 χ^2/NDF : 7335.8/22

Left: -25.968+/-0.362 χ^2/NDF : 19845.5/47

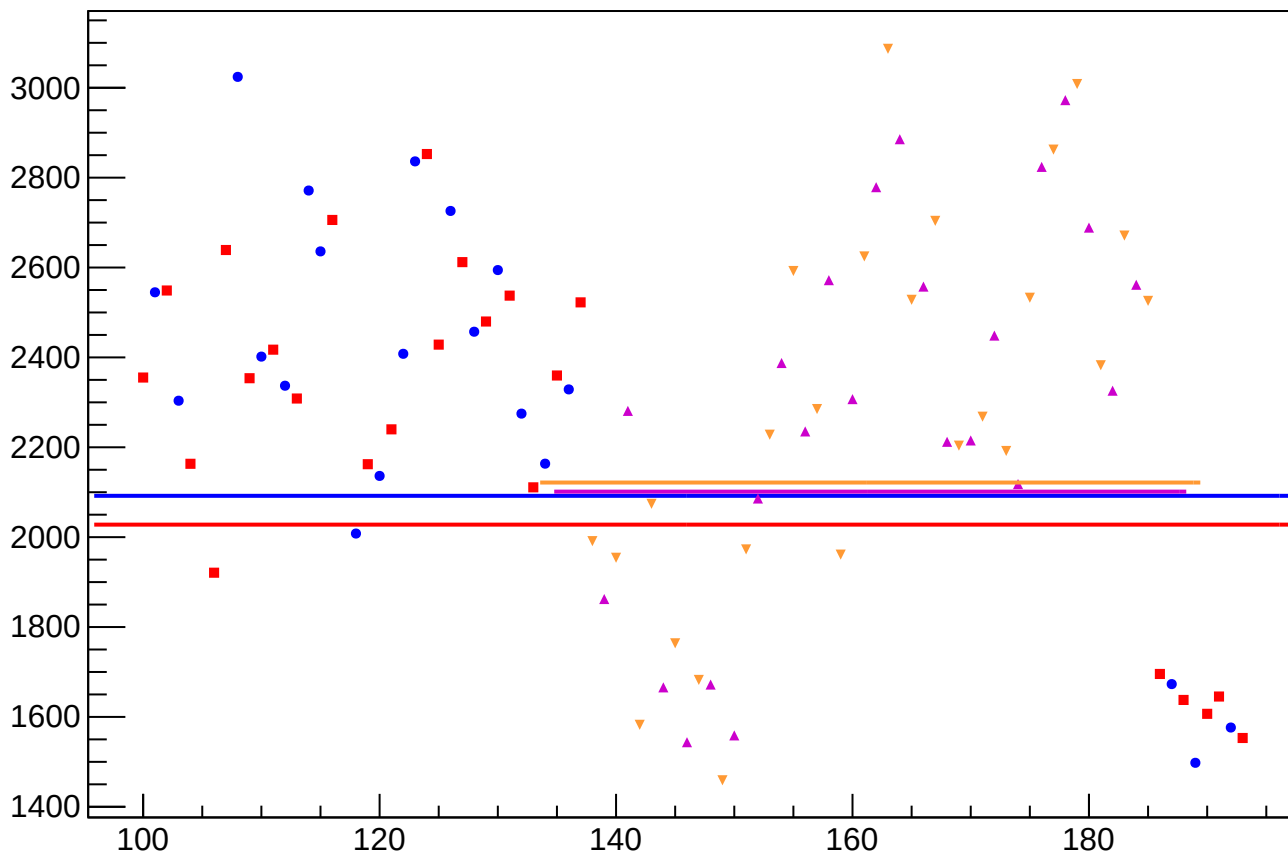
Right: 55.671+/-0.496 χ^2/NDF : 15100.0/43

In: -12.350+/-0.425 χ^2/NDF : 43146.4/42

Out: 15.556+/-0.402 χ^2/NDF : 7223.0/48

All: 2.378+/-0.292 χ^2/NDF : 52643.2/91

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2091.997 $\pm$ 0.527 χ^2/NDF : 670980.2/19

Left Out: 2121.567 $\pm$ 0.357 χ^2/NDF : 1387847.6/24

Right Out: 2027.884 $\pm$ 0.470 χ^2/NDF : 706545.7/23

Left In: 2101.325 $\pm$ 0.366 χ^2/NDF : 1360518.3/22

Left: 2111.691 $\pm$ 0.256 χ^2/NDF : 2749931.8/47

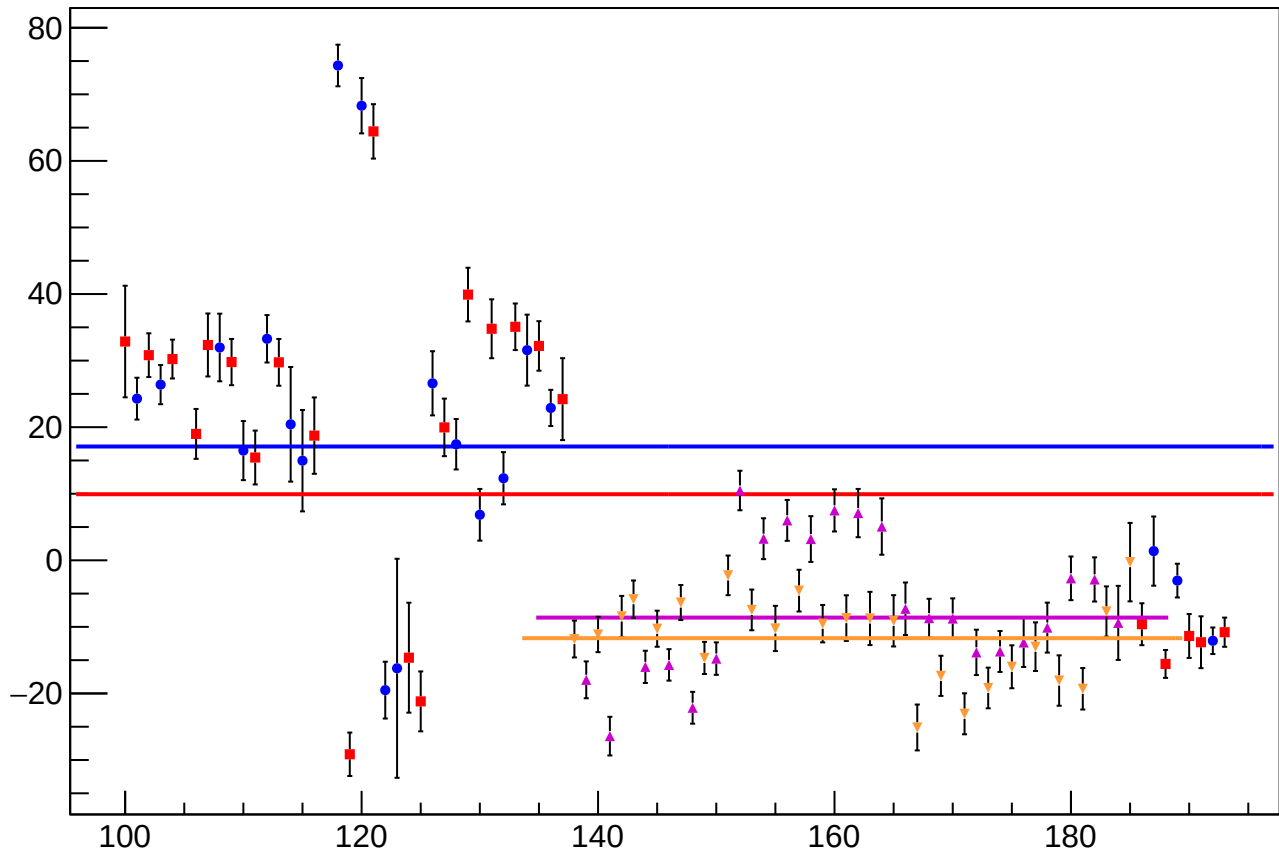
Right: 2056.271 $\pm$ 0.351 χ^2/NDF : 1385776.2/43

In: 2098.288 $\pm$ 0.301 χ^2/NDF : 2031709.9/42

Out: 2087.223 $\pm$ 0.284 χ^2/NDF : 2119594.2/48

All: 2092.448 $\pm$ 0.207 χ^2/NDF : 4152019.1/91

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 17.096+/-0.818 χ^2/NDF : 920.0/19

Left Out: -11.700+/-0.625 χ^2/NDF : 85.0/24

Right Out: 9.927+/-0.734 χ^2/NDF : 1107.1/23

Left In: -8.606+/-0.642 χ^2/NDF : 264.2/22

Left: -10.193+/-0.448 χ^2/NDF : 361.1/47

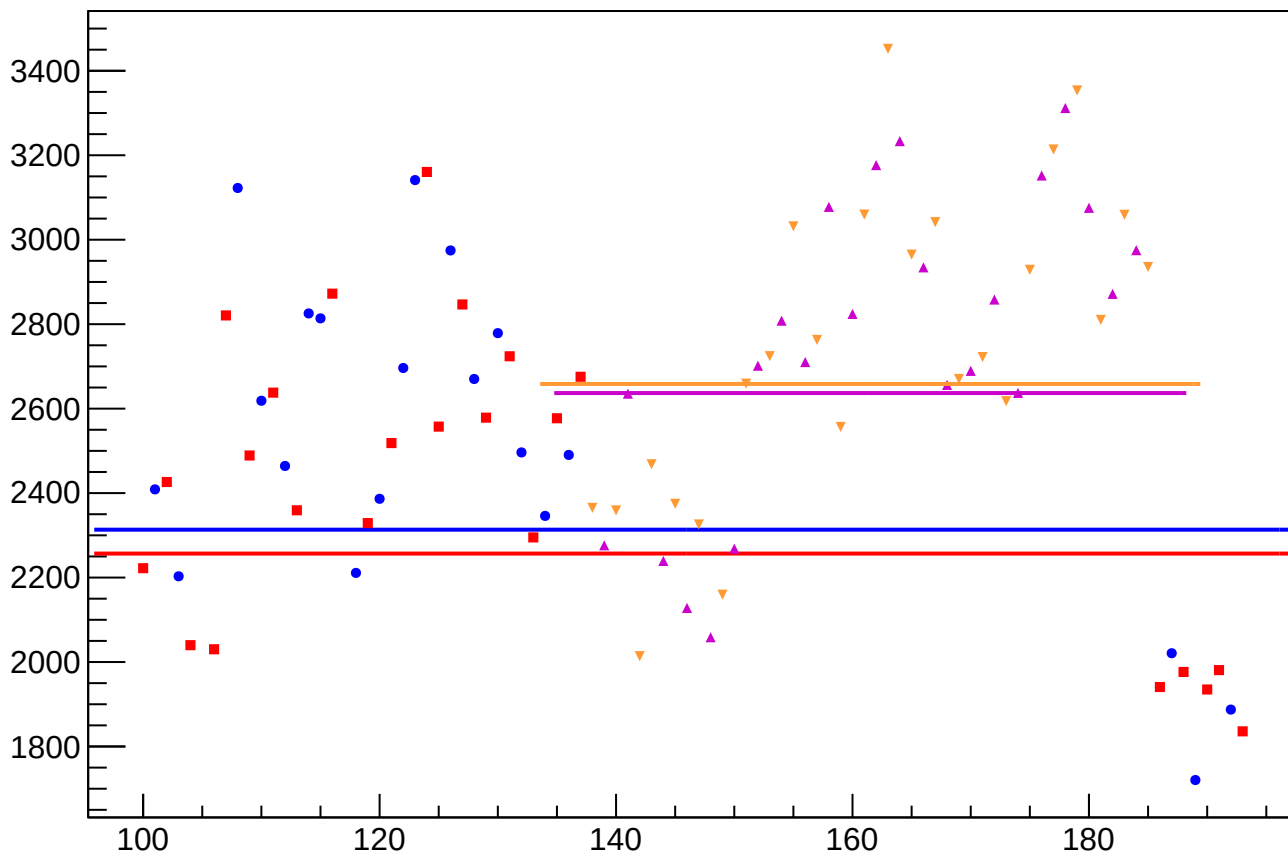
Right: 13.124+/-0.546 χ^2/NDF : 2069.6/43

In: 1.184+/-0.505 χ^2/NDF : 1794.8/42

Out: -2.604+/-0.476 χ^2/NDF : 1694.9/48

All: -0.822+/-0.346 χ^2/NDF : 3519.6/91

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2313.405 $\pm$ 0.579 χ^2 /NDF: 412053.6/19

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2256.839 $\pm$ 0.519 χ^2 /NDF: 401184.3/23

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

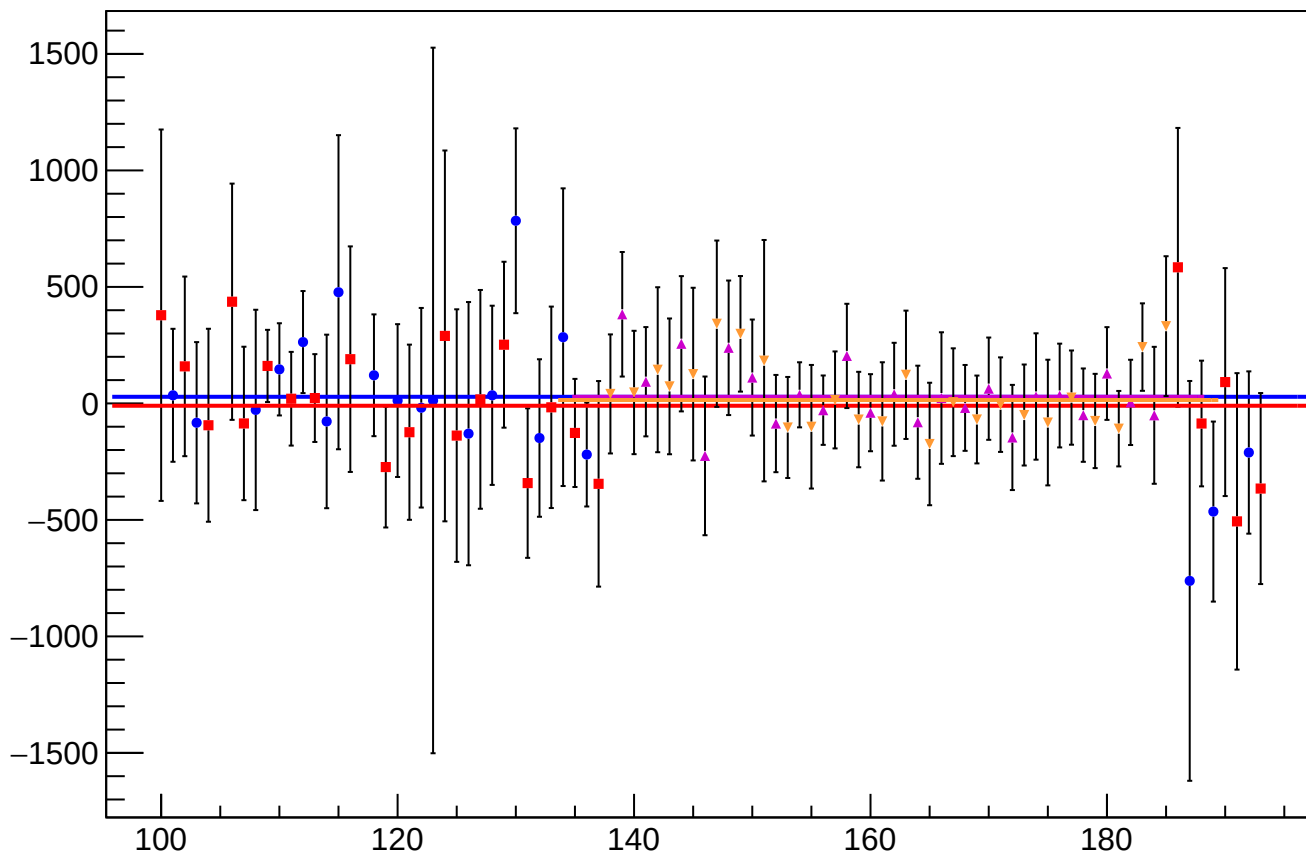
Right: 2282.062 $\pm$ 0.386 χ^2 /NDF: 818532.2/43

In: 2513.671 $\pm$ 0.357 χ^2 /NDF: 1258398.2/42

Out: 2489.569 $\pm$ 0.337 χ^2 /NDF: 1366192.9/48

All: 2500.908 $\pm$ 0.245 χ^2 /NDF: 2627002.6/91

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 28.395 $\pm$ 75.472 χ^2 /NDF: 10.6/19

Left Out: 14.520 $\pm$ 47.528 χ^2 /NDF:7.8/24

Right Out: -10.080 $\pm$ 65.473 χ^2 /NDF: 9.0/23

Left In: 28.310 $\pm$ 44.638 χ^2 /NDF:6.3/22

Left: 21.847 $\pm$ 32.538 χ^2 /NDF: 14.1/47

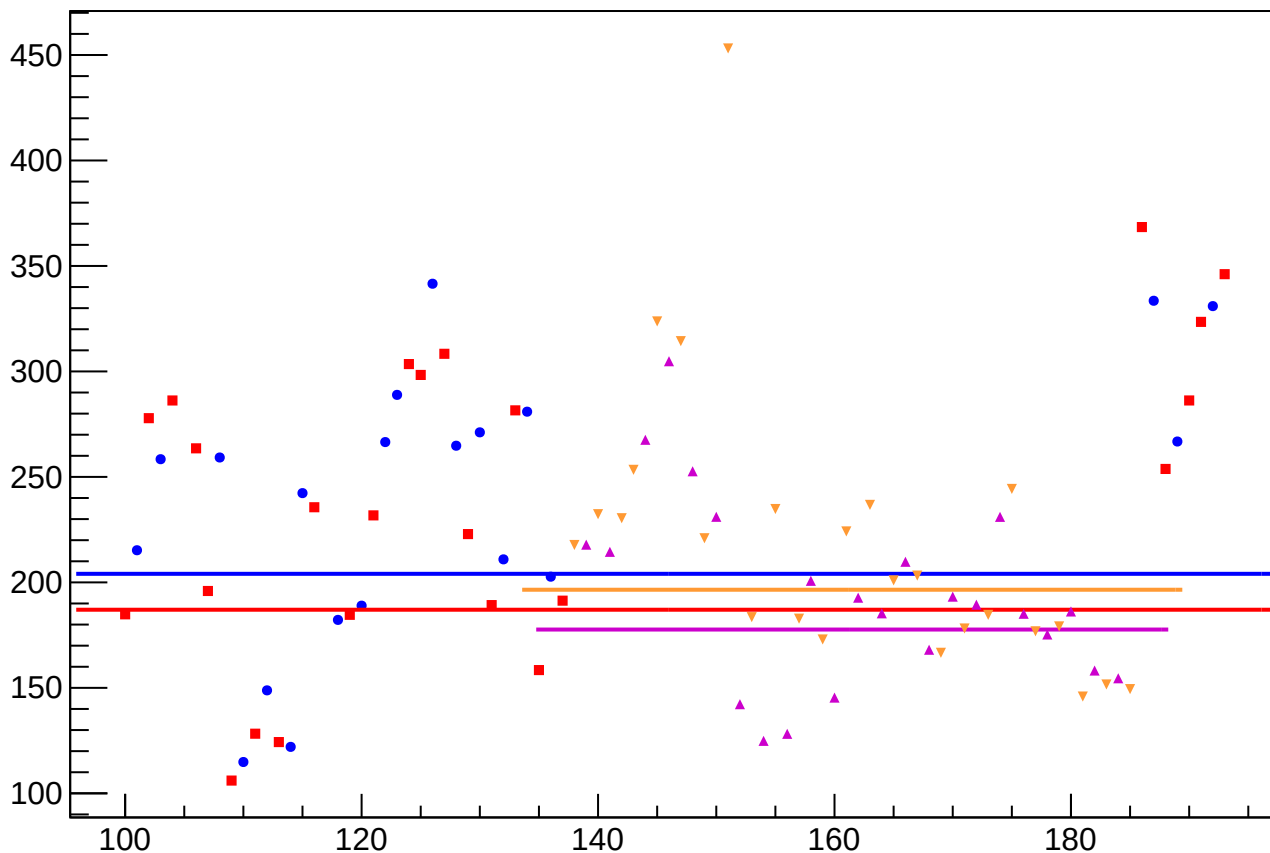
Right: 6.442 $\pm$ 49.457 χ^2 /NDF: 19.7/43

In: 28.332 $\pm$ 38.421 χ^2 /NDF:16.9/42

Out: 6.030 $\pm$ 38.463 χ^2 /NDF:16.8/48

All: 17.193 $\pm$ 27.183 χ^2 /NDF: 33.9/91

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.061 $\pm$ 0.053 χ^2 /NDF: 1408773.4/19

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 187.038 $\pm$ 0.046 χ^2 /NDF: 2448723.4/23

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

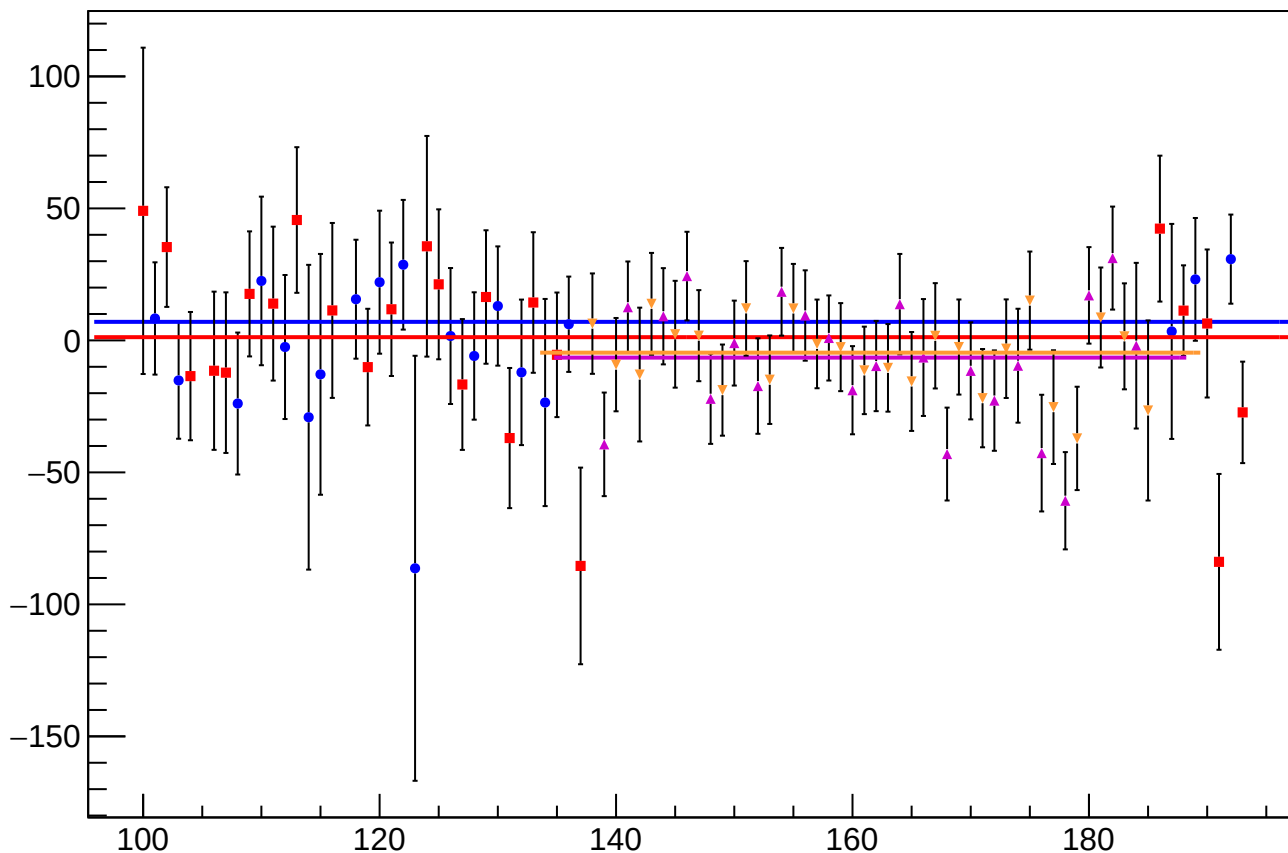
Right: 194.348 $\pm$ 0.035 χ^2 /NDF: 3915554.2/43

In: 184.490 $\pm$ 0.027 χ^2 /NDF:3220976.0/42

Out: 193.244 $\pm$ 0.027 χ^2 /NDF:4265666.8/48

All: 188.862 $\pm$ 0.019 χ^2 /NDF: 7538500.4/91

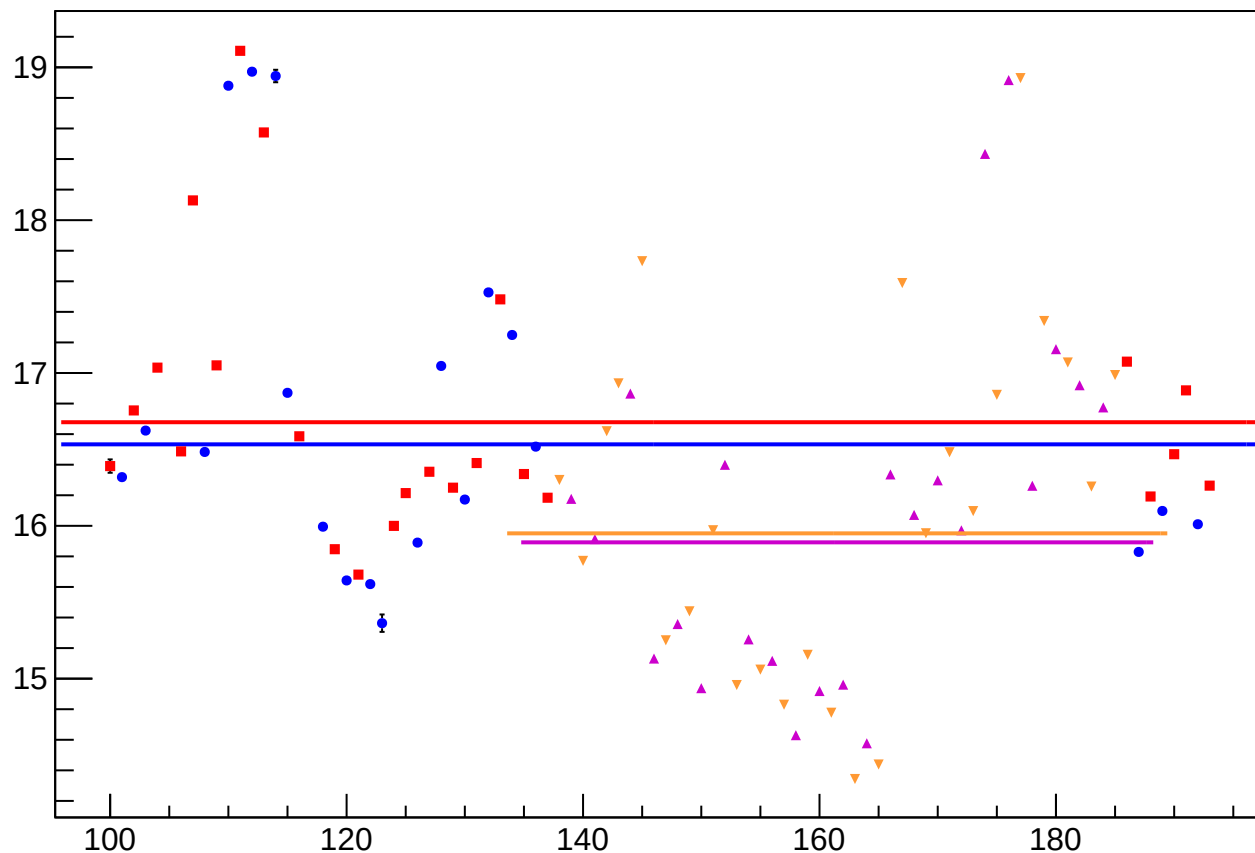
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.025 ± 5.767 $\chi^2/\text{NDF}: 9.8/19$
 Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$
 Right Out: 1.219 ± 5.358 $\chi^2/\text{NDF}: 28.6/23$
 Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$
 Right: 3.909 ± 3.925 $\chi^2/\text{NDF}: 38.9/43$
 In: -2.382 ± 3.189 $\chi^2/\text{NDF}: 50.0/42$
 Out: -2.733 ± 3.060 $\chi^2/\text{NDF}: 41.5/48$
 All: -2.565 ± 2.208 $\chi^2/\text{NDF}: 91.5/91$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.533+/-0.004 χ^2/NDF : 46266.5/19

Left Out: 15.951+/-0.003 χ^2/NDF :173458.5/24

Right Out: 16.678+/-0.004 χ^2/NDF : 42827.8/23

Left In: 15.892+/-0.003 χ^2/NDF :147093.3/22

Left: 15.922+/-0.002 χ^2/NDF : 320794.5/47

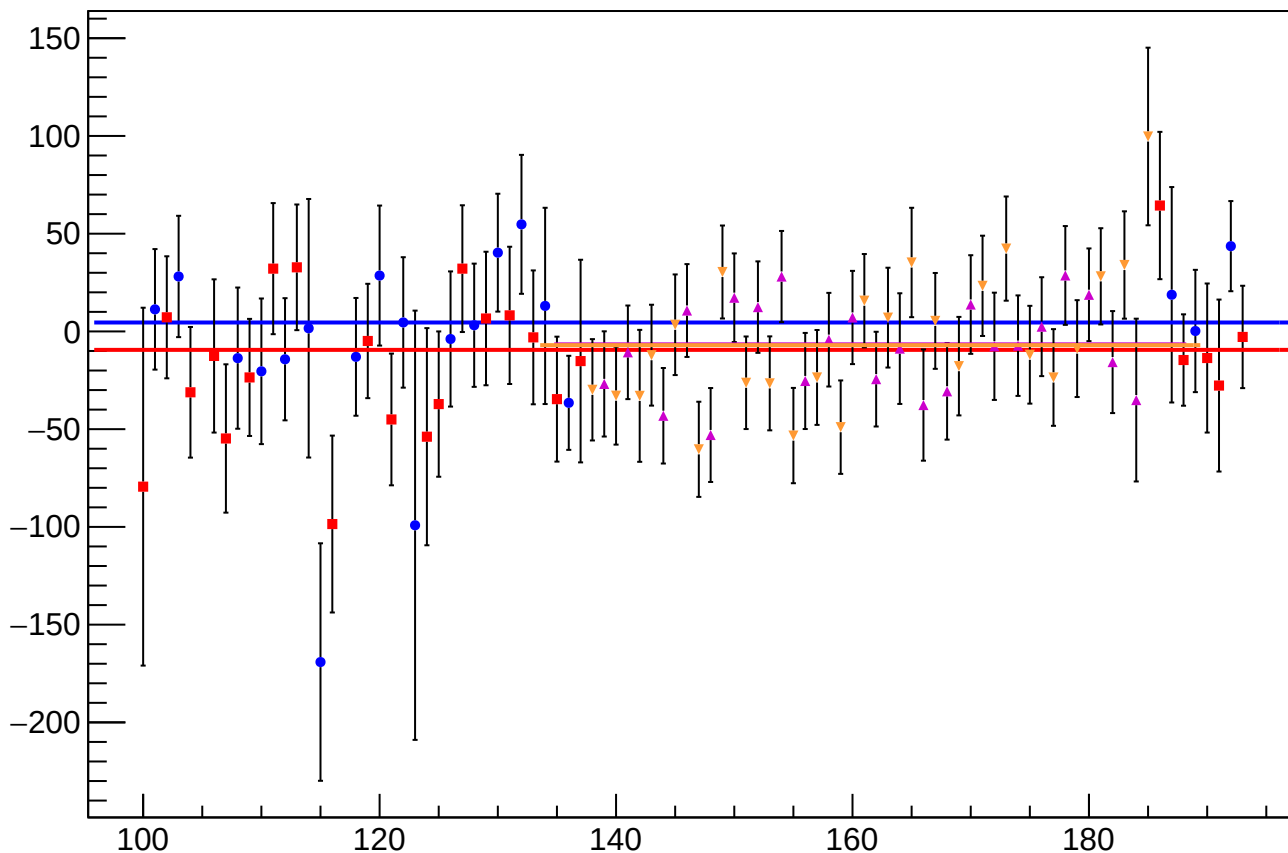
Right: 16.611+/-0.003 χ^2/NDF : 89770.7/43

In: 16.088+/-0.002 χ^2/NDF :210529.1/42

Out: 16.188+/-0.002 χ^2/NDF :241108.5/48

All: 16.140+/-0.002 χ^2/NDF : 452659.6/91

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.567 ± 7.657 $\chi^2/\text{NDF}: 20.9/19$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -9.436 ± 7.077 $\chi^2/\text{NDF}: 19.3/23$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

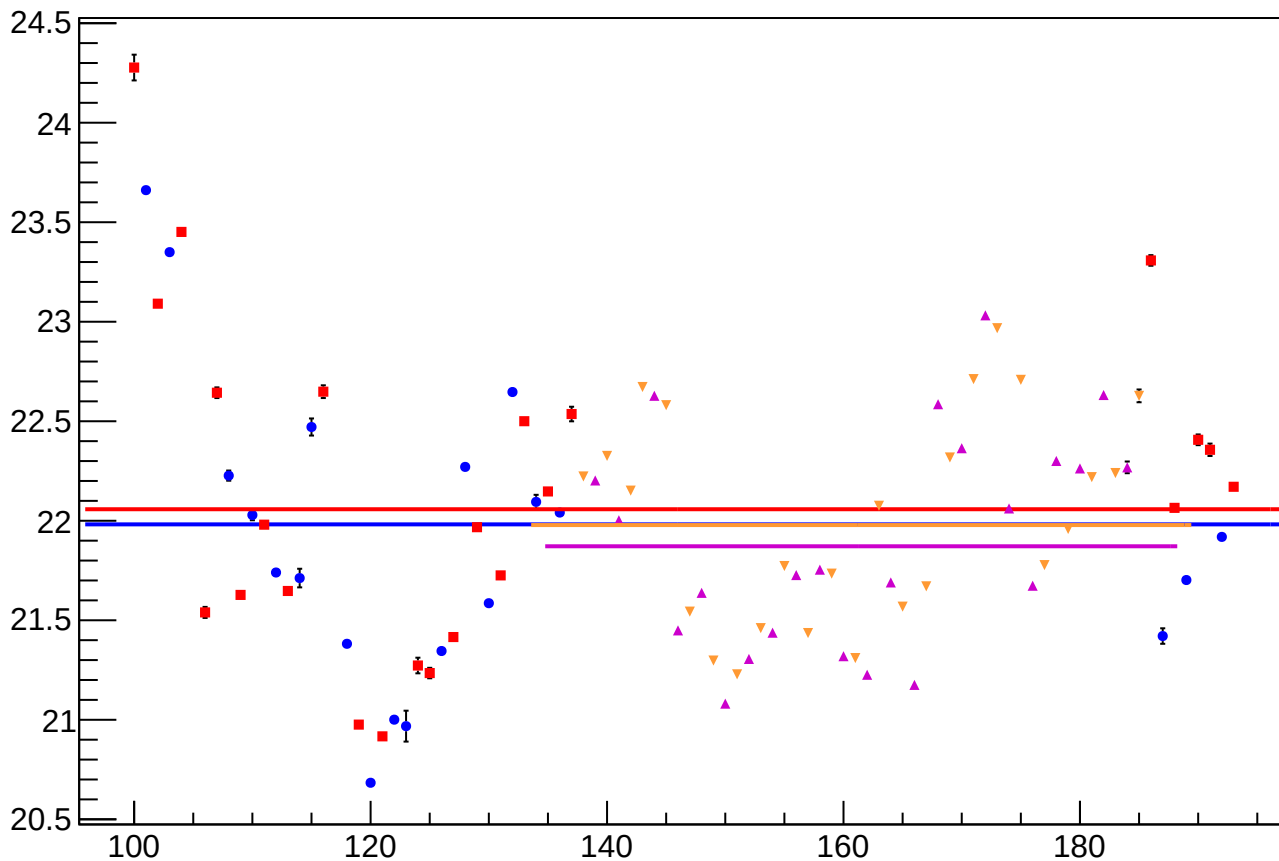
Right: -2.985 ± 5.197 $\chi^2/\text{NDF}: 42.1/43$

In: -3.036 ± 4.331 $\chi^2/\text{NDF}: 41.5/42$

Out: -7.849 ± 4.149 $\chi^2/\text{NDF}: 56.8/48$

All: -5.545 ± 2.996 $\chi^2/\text{NDF}: 99.0/91$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.982 $\pm$ 0.005 χ^2 /NDF: 17813.3/19

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 22.058 $\pm$ 0.005 χ^2 /NDF: 19167.2/23

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

Left: 21.926 $\pm$ 0.003 χ^2 /NDF: 40377.5/47

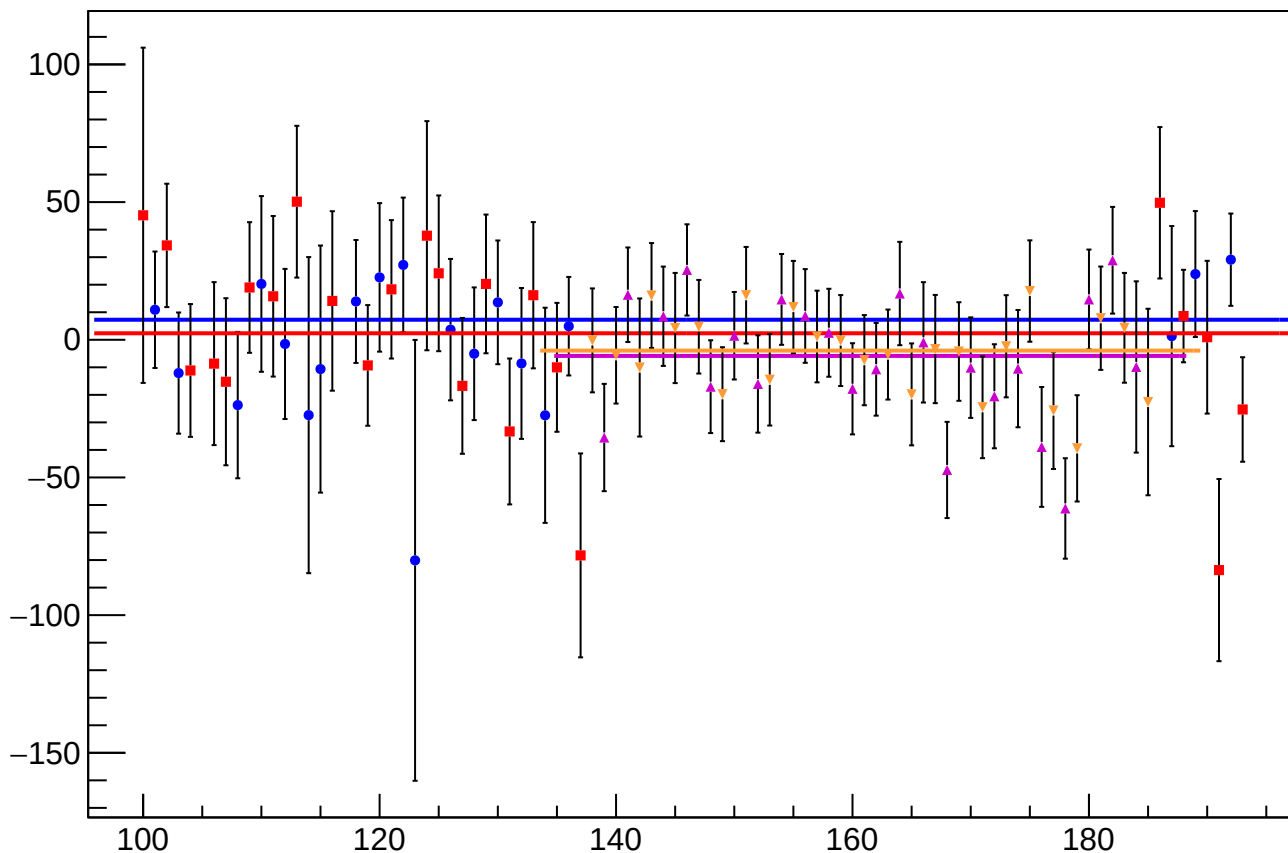
Right: 22.023 $\pm$ 0.004 χ^2 /NDF: 37086.8/43

In: 21.907 $\pm$ 0.003 χ^2 /NDF:38619.4/42

Out: 22.006 $\pm$ 0.003 χ^2 /NDF:38763.1/48

All: 21.958 $\pm$ 0.002 χ^2 /NDF: 77924.3/91

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.280+/-5.728 χ^2/NDF : 9.0/19

Left Out: -3.927+/-3.688 χ^2/NDF : 14.0/24

Right Out: 2.362+/-5.316 χ^2/NDF : 29.4/23

Left In: -5.861+/-3.787 χ^2/NDF : 36.2/22

Left: -4.869+/-2.642 χ^2/NDF : 50.3/47

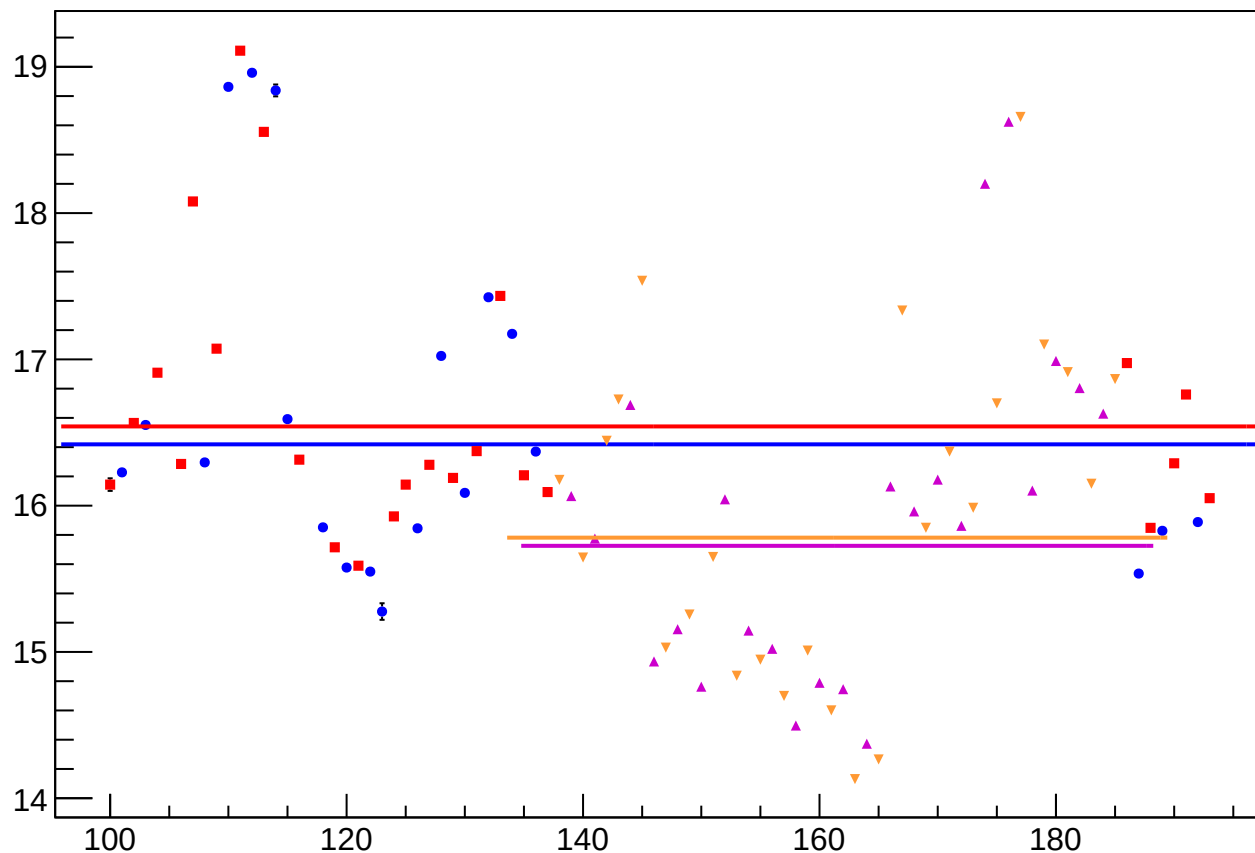
Right: 4.638+/-3.896 χ^2/NDF : 38.7/43

In: -1.864+/-3.159 χ^2/NDF : 48.8/42

Out: -1.884+/-3.030 χ^2/NDF : 44.3/48

All: -1.874+/-2.187 χ^2/NDF : 93.1/91

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.419 $\pm$ 0.004 χ^2 /NDF: 49612.1/19

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 16.542 $\pm$ 0.004 χ^2 /NDF: 48838.6/23

Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2 /NDF: 318948.8/47

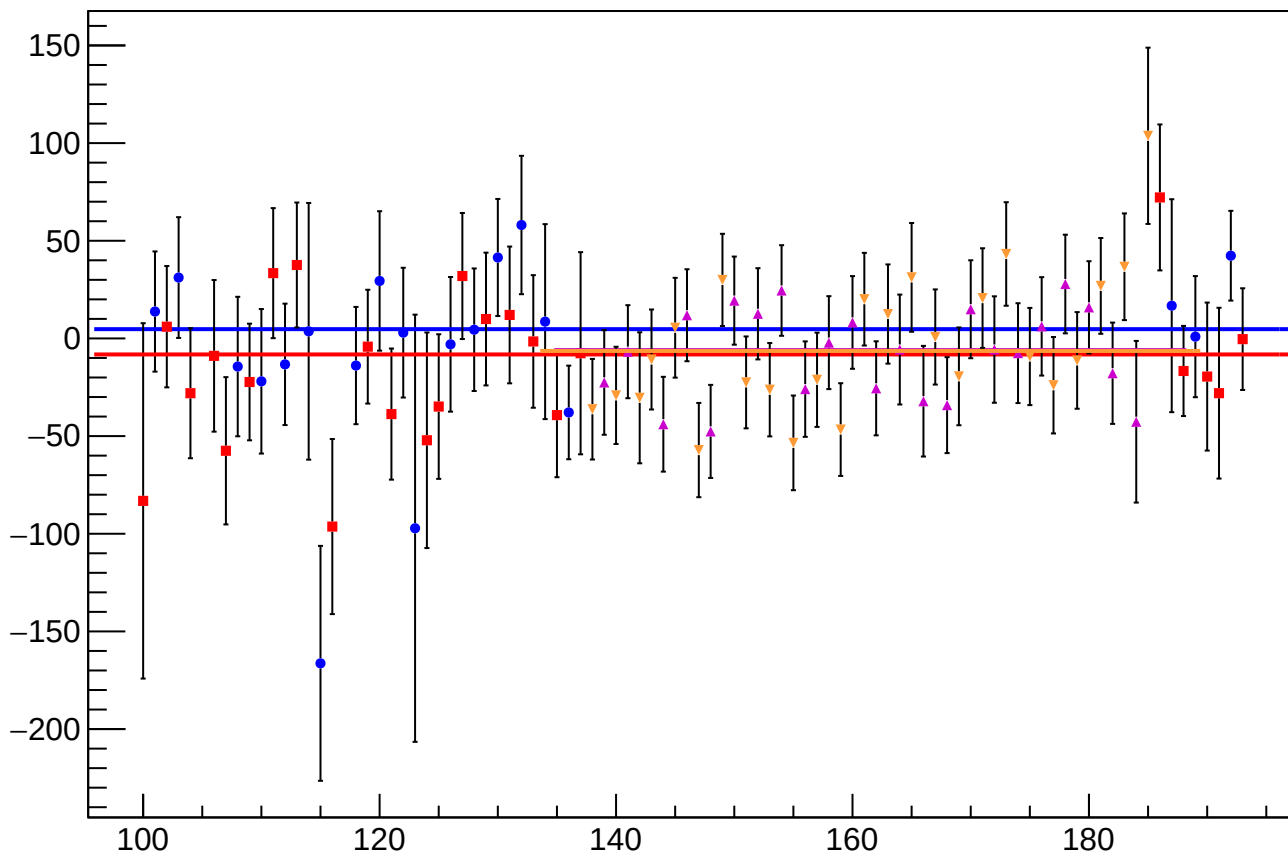
Right: 16.485 $\pm$ 0.003 χ^2 /NDF: 98942.0/43

In: 15.936 $\pm$ 0.002 χ^2 /NDF:215859.3/42

Out: 16.028 $\pm$ 0.002 χ^2 /NDF:249355.6/48

All: 15.984 $\pm$ 0.002 χ^2 /NDF: 466097.1/91

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.749+/-7.619 χ^2/NDF : 21.5/19

Left Out: -6.404+/-5.091 χ^2/NDF : 37.4/24

Right Out: -8.201+/-7.034 χ^2/NDF : 21.0/23

Left In: -5.978+/-5.222 χ^2/NDF : 18.5/22

Left: -6.196+/-3.646 χ^2/NDF : 55.9/47

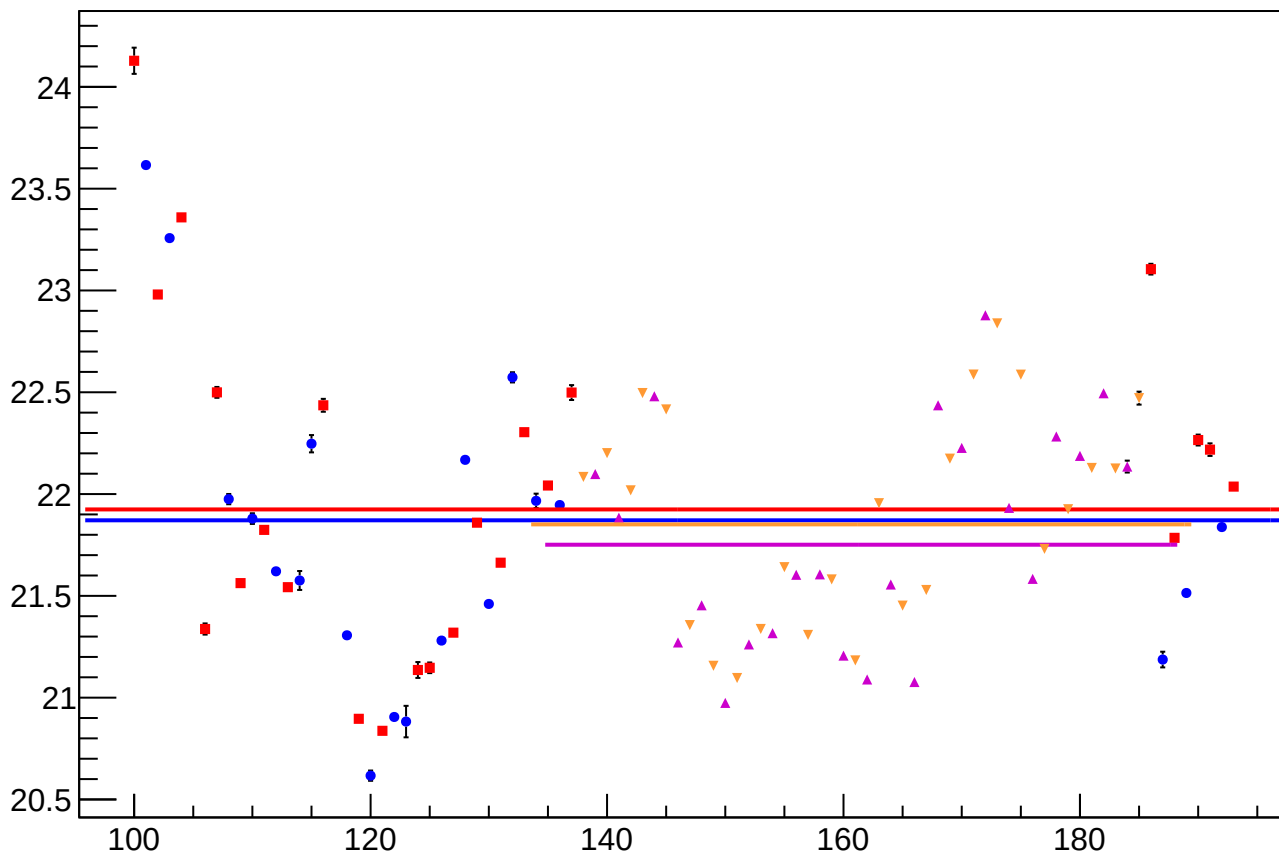
Right: -2.242+/-5.168 χ^2/NDF : 44.0/43

In: -2.549+/-4.308 χ^2/NDF : 41.4/42

Out: -7.022+/-4.124 χ^2/NDF : 58.4/48

All: -4.882+/-2.979 χ^2/NDF : 100.4/91

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.871 $\pm$ 0.005 χ^2 /NDF: 18288.9/19

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF: 19631.8/24

Right Out: 21.925 $\pm$ 0.005 χ^2 /NDF: 18563.9/23

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

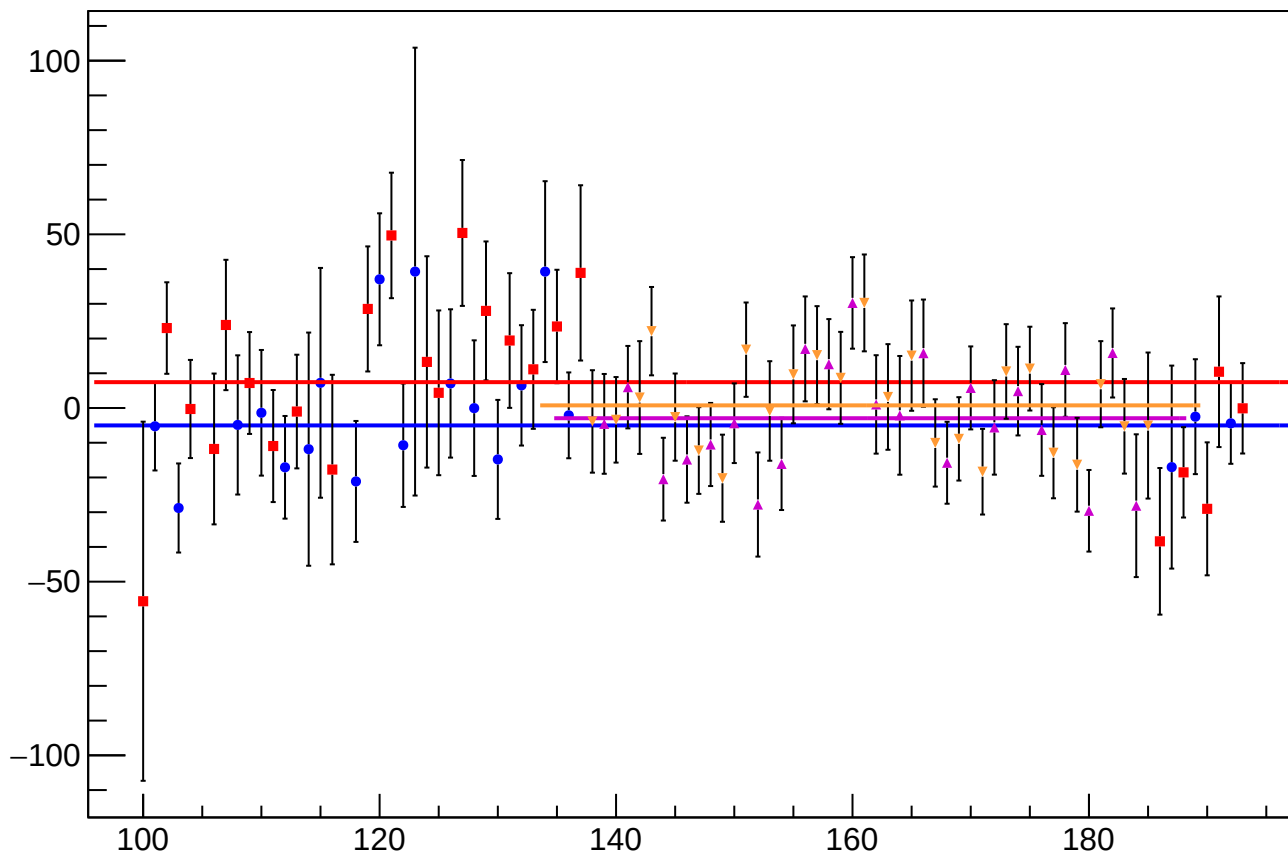
Right: 21.900 $\pm$ 0.004 χ^2 /NDF: 36906.0/43

In: 21.790 $\pm$ 0.003 χ^2 /NDF: 39142.2/42

Out: 21.876 $\pm$ 0.003 χ^2 /NDF: 38338.7/48

All: 21.835 $\pm$ 0.002 χ^2 /NDF: 77905.1/91

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.017 ± 3.910 $\chi^2/\text{NDF}: 15.0/19$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 7.442 ± 3.682 $\chi^2/\text{NDF}: 34.9/23$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

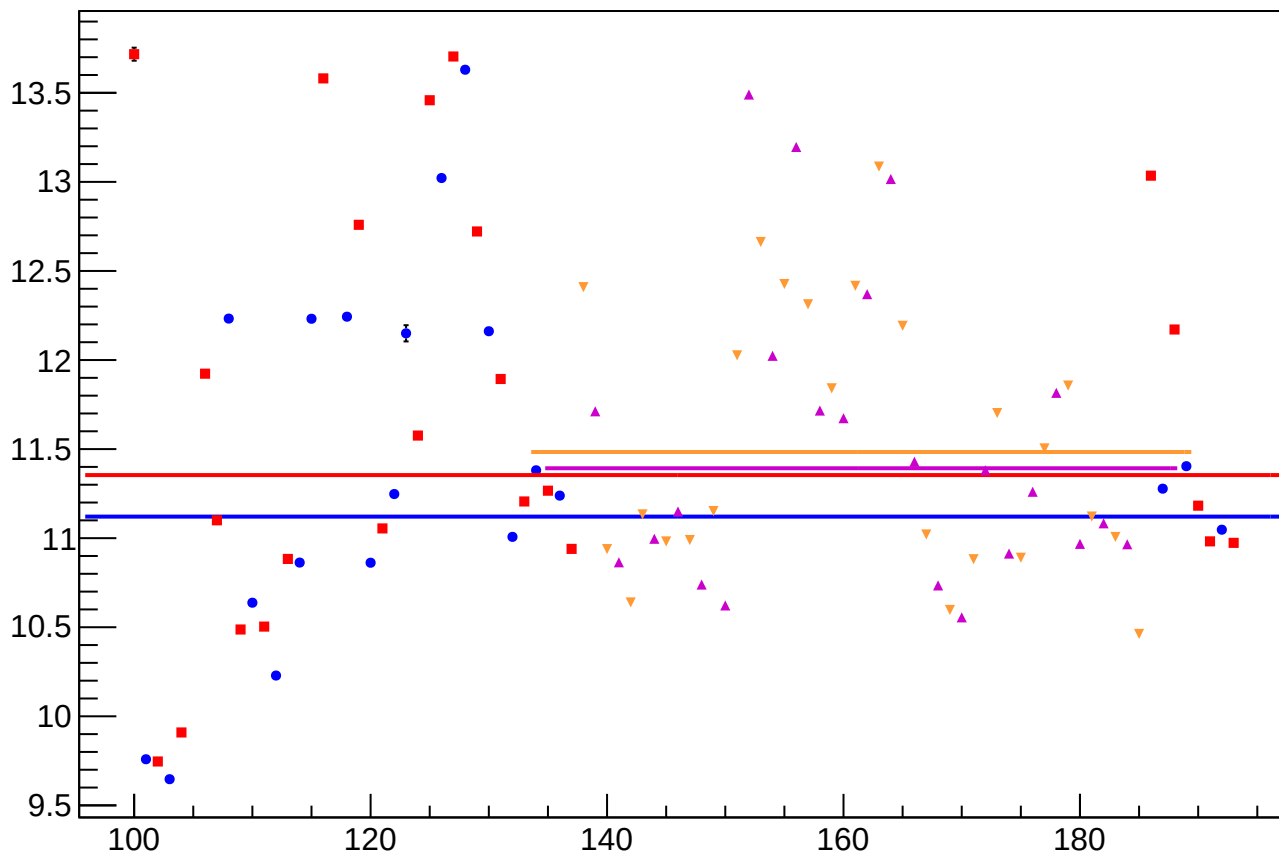
Right: 1.586 ± 2.680 $\chi^2/\text{NDF}: 55.3/43$

In: -3.633 ± 2.253 $\chi^2/\text{NDF}: 46.1/42$

Out: 3.094 ± 2.176 $\chi^2/\text{NDF}: 60.9/48$

All: -0.153 ± 1.565 $\chi^2/\text{NDF}: 111.6/91$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.121 $\pm$ 0.003 χ^2 /NDF: 133334.6/19

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 11.354 $\pm$ 0.003 χ^2 /NDF: 172437.8/23

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

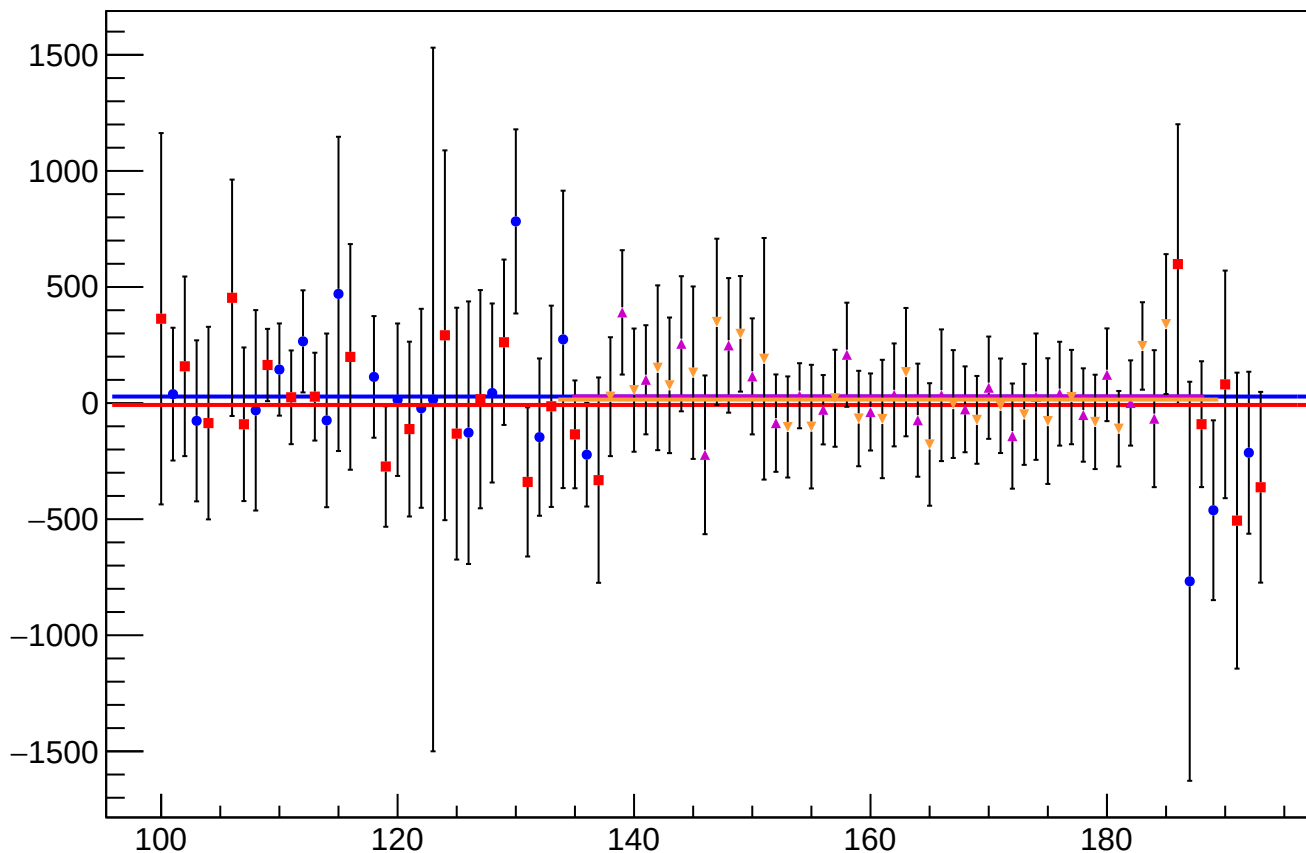
Right: 11.245 $\pm$ 0.002 χ^2 /NDF: 309542.0/43

In: 11.302 $\pm$ 0.002 χ^2 /NDF:290263.2/42

Out: 11.438 $\pm$ 0.002 χ^2 /NDF:303853.8/48

All: 11.373 $\pm$ 0.001 χ^2 /NDF: 597897.9/91

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 28.154+/-75.666 χ^2/NDF : 10.5/19

Left Out: 15.130+/-47.705 χ^2/NDF : 8.0/24

Right Out: -8.013+/-65.672 χ^2/NDF : 9.1/23

Left In: 28.500+/-44.797 χ^2/NDF : 6.4/22

Left: 22.235+/-32.656 χ^2/NDF : 14.4/47

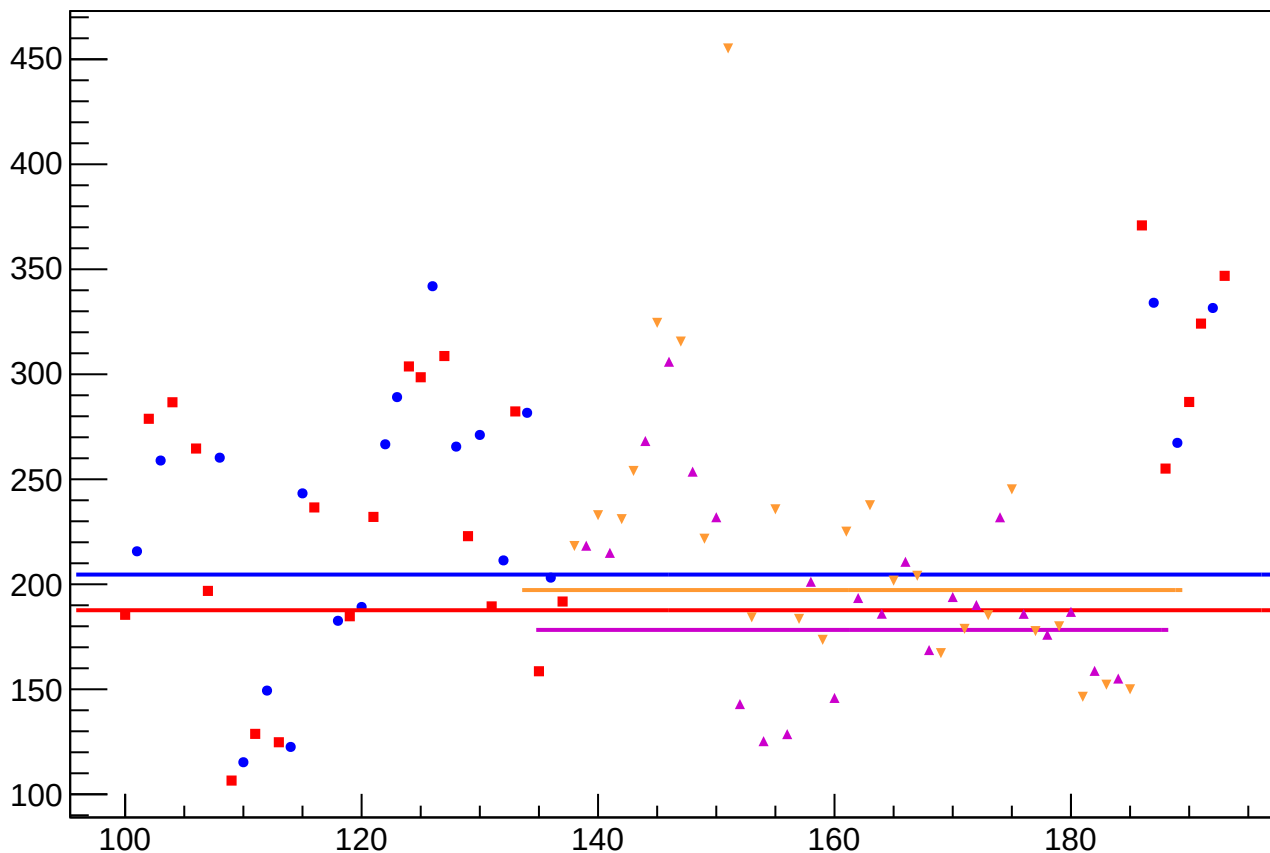
Right: 7.526+/-49.597 χ^2/NDF : 19.8/43

In: 28.410+/-38.548 χ^2/NDF : 16.9/42

Out: 7.136+/-38.596 χ^2/NDF : 17.2/48

All: 17.787+/-27.275 χ^2/NDF : 34.2/91

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.627 $\pm$ 0.054 χ^2 /NDF: 1402630.5/19

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 187.643 $\pm$ 0.046 χ^2 /NDF: 2442825.0/23

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF:1628916.6/22

Left: 187.167 $\pm$ 0.023 χ^2 /NDF: 3583826.5/47

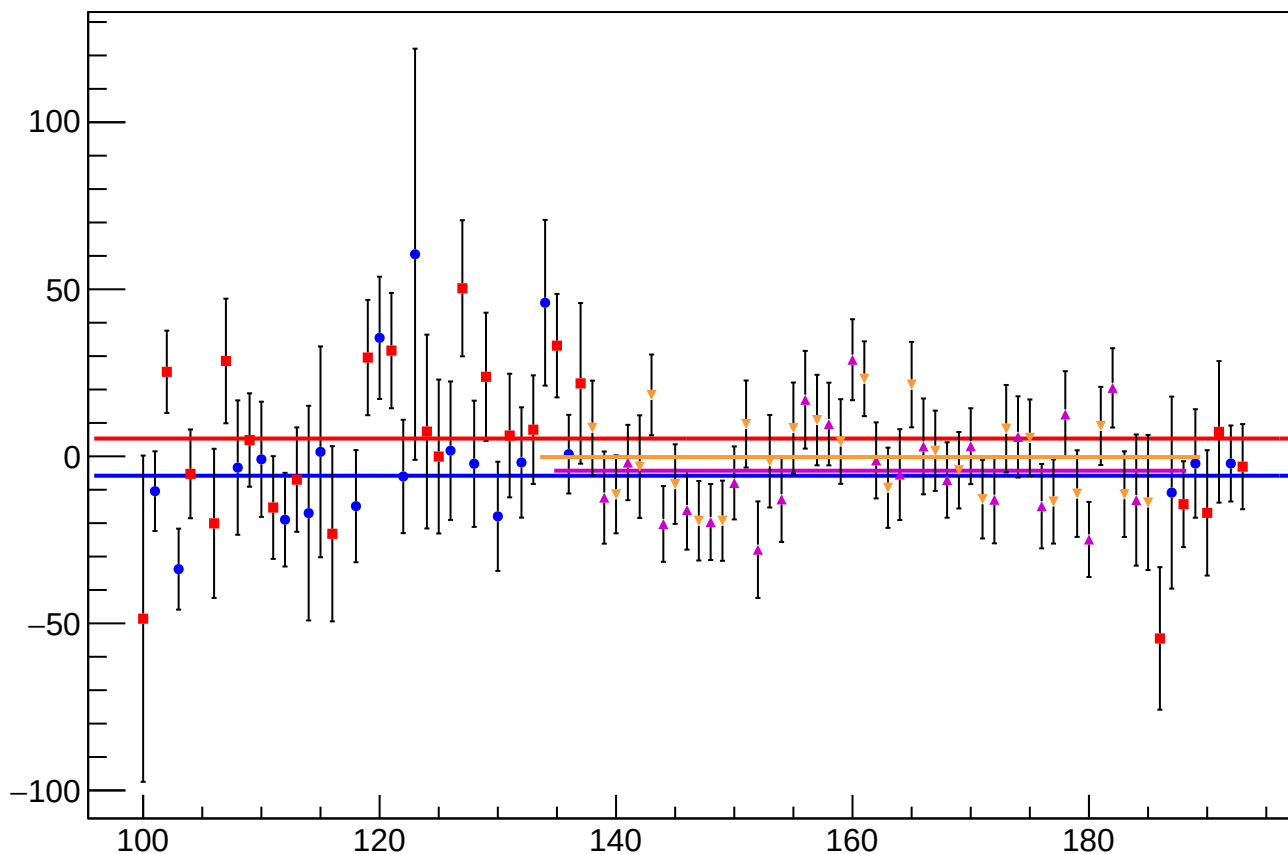
Right: 194.940 $\pm$ 0.035 χ^2 /NDF: 3902926.7/43

In: 185.116 $\pm$ 0.027 χ^2 /NDF:3211142.0/42

Out: 193.931 $\pm$ 0.027 χ^2 /NDF:4257644.9/48

All: 189.518 $\pm$ 0.019 χ^2 /NDF: 7521019.9/91

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.803 ± 3.750 χ^2/NDF : 18.8/19

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 5.328 ± 3.548 χ^2/NDF : 36.9/23

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

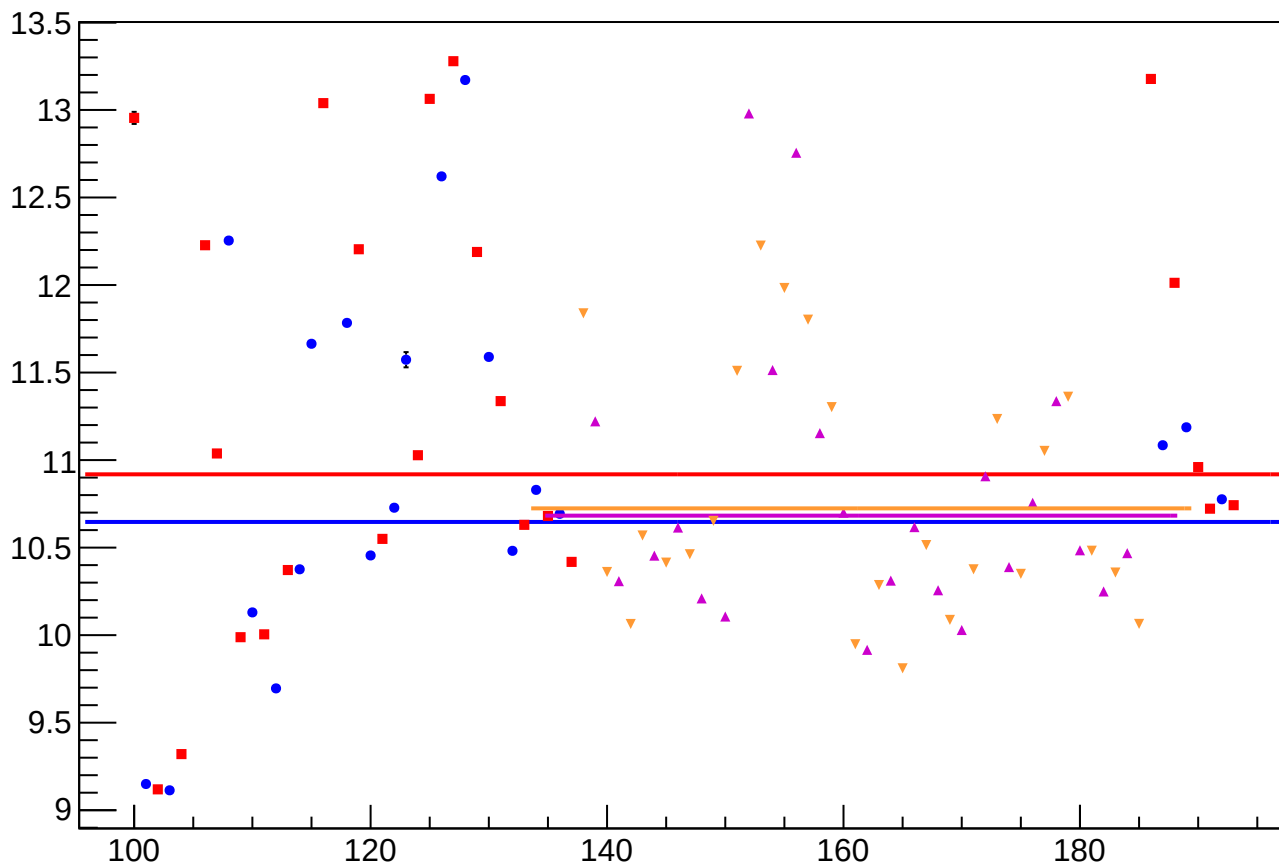
Right: 0.069 ± 2.577 χ^2/NDF : 60.3/43

In: -4.783 ± 2.131 χ^2/NDF : 50.5/42

Out: 1.649 ± 2.056 χ^2/NDF : 63.0/48

All: -1.453 ± 1.480 χ^2/NDF : 118.2/91

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.647 $\pm$ 0.003 χ^2 /NDF: 163193.3/19

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.919 $\pm$ 0.003 χ^2 /NDF: 218827.6/23

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

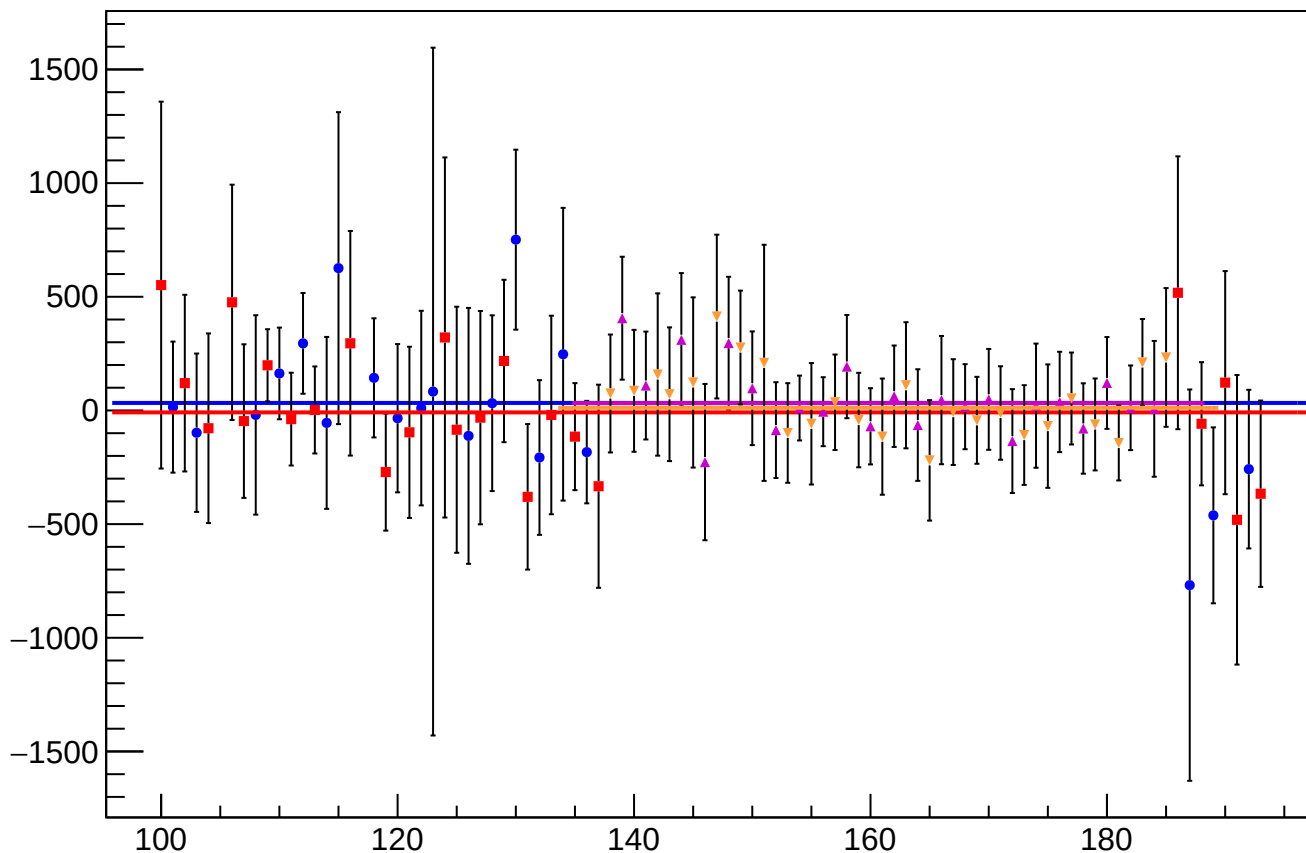
Right: 10.790 $\pm$ 0.002 χ^2 /NDF: 387574.1/43

In: 10.671 $\pm$ 0.002 χ^2 /NDF:311153.7/42

Out: 10.790 $\pm$ 0.001 χ^2 /NDF:355376.3/48

All: 10.732 $\pm$ 0.001 χ^2 /NDF: 669733.3/91

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 33.064 $\pm$ 76.114 χ^2 /NDF: 11.1/19

Left Out: 11.891 $\pm$ 48.022 χ^2 /NDF:7.6/24

Right Out: -8.544 $\pm$ 66.214 χ^2 /NDF: 9.6/23

Left In: 32.413 $\pm$ 45.155 χ^2 /NDF:6.9/22

Left: 22.783 $\pm$ 32.896 χ^2 /NDF: 14.6/47

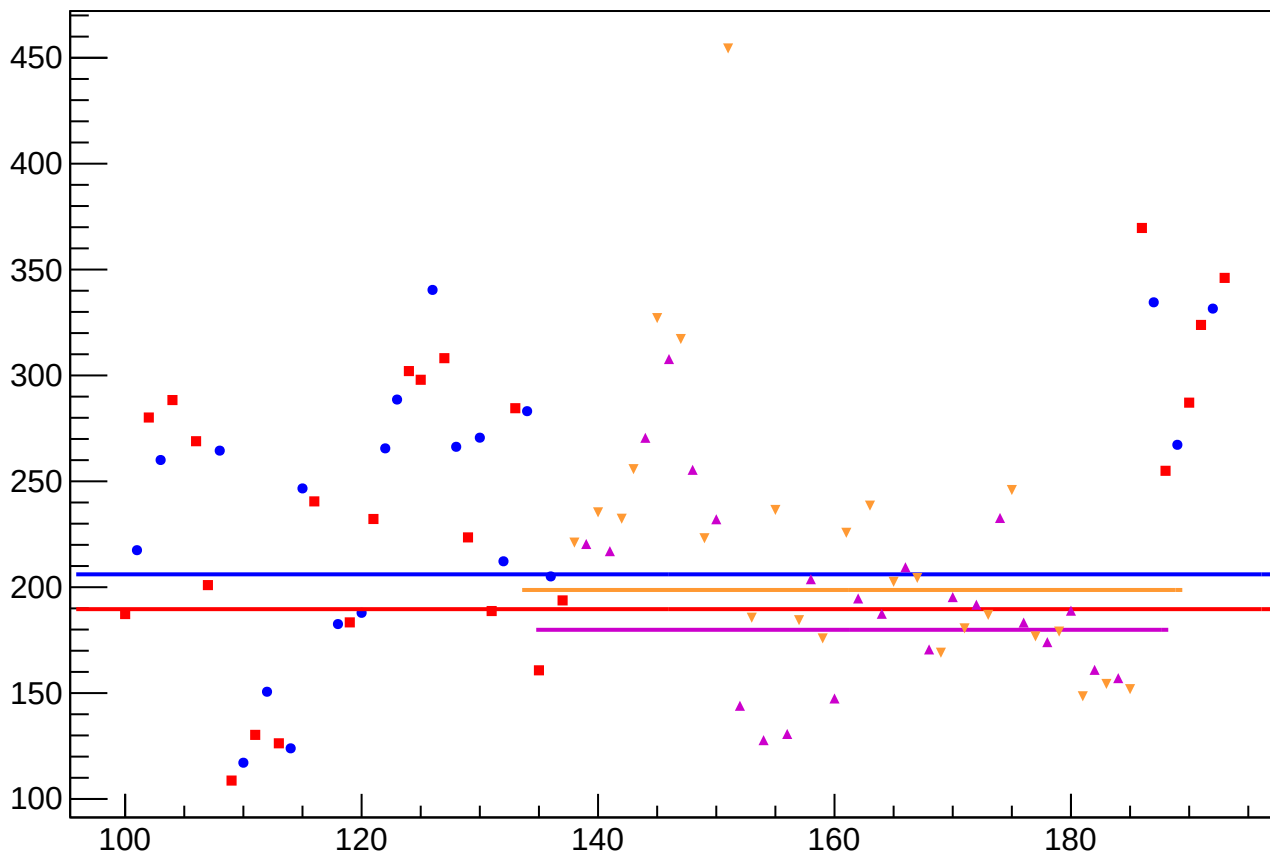
Right: 9.380 $\pm$ 49.956 χ^2 /NDF: 20.8/43

In: 32.582 $\pm$ 38.835 χ^2 /NDF:18.0/42

Out: 4.847 $\pm$ 38.875 χ^2 /NDF:17.3/48

All: 18.729 $\pm$ 27.474 χ^2 /NDF: 35.5/91

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.079 $\pm$ 0.054 χ^2/NDF : 1367416.1/19

Left Out: 198.695 $\pm$ 0.034 χ^2/NDF :1759311.9/24

Right Out: 189.637 $\pm$ 0.047 χ^2/NDF : 2372909.3/23

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

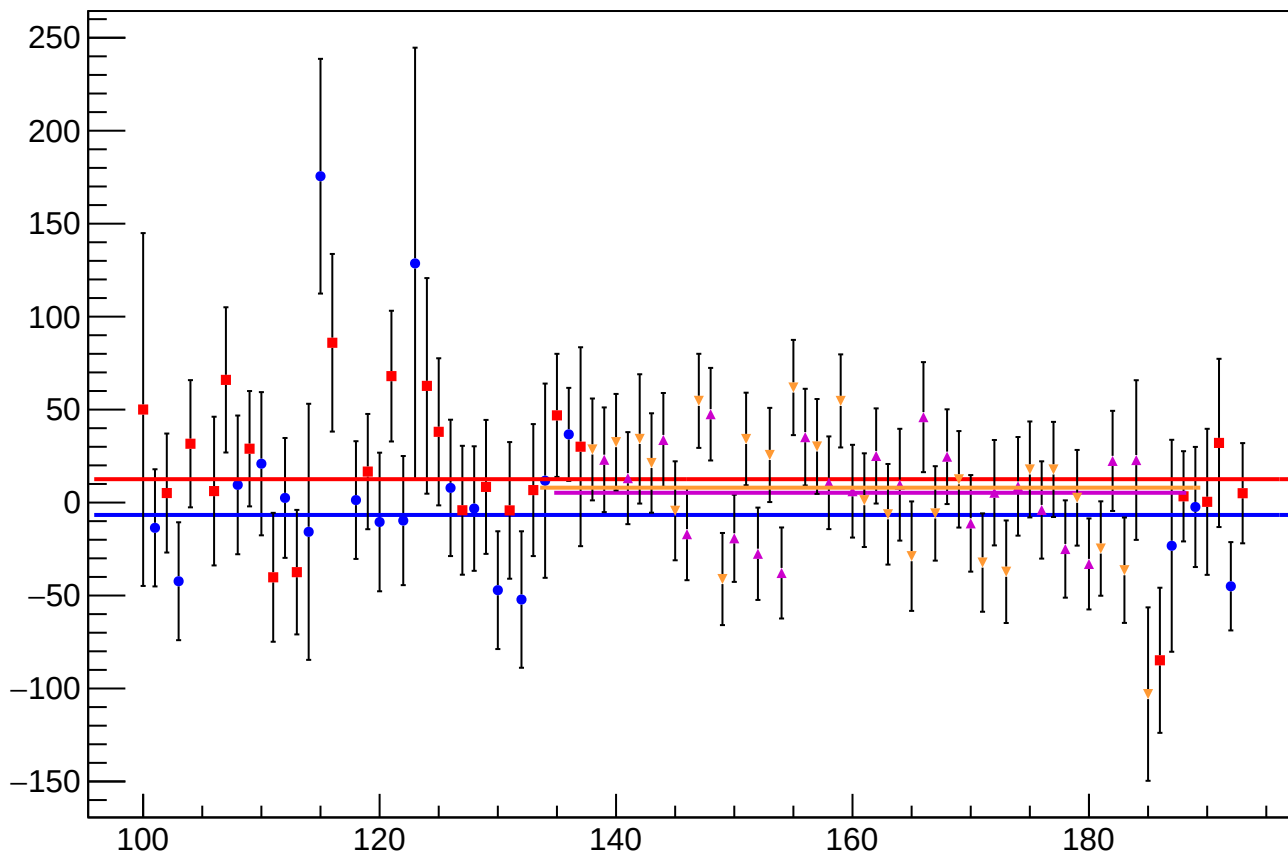
Right: 196.720 $\pm$ 0.035 χ^2/NDF : 3793451.9/43

In: 186.705 $\pm$ 0.027 χ^2/NDF :3123242.8/42

Out: 195.573 $\pm$ 0.027 χ^2/NDF :4156748.2/48

All: 191.134 $\pm$ 0.019 χ^2/NDF : 7332078.4/91

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.659 ± 7.951 χ^2/NDF : 21.1/19

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 12.578 ± 7.356 χ^2/NDF : 21.7/23

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

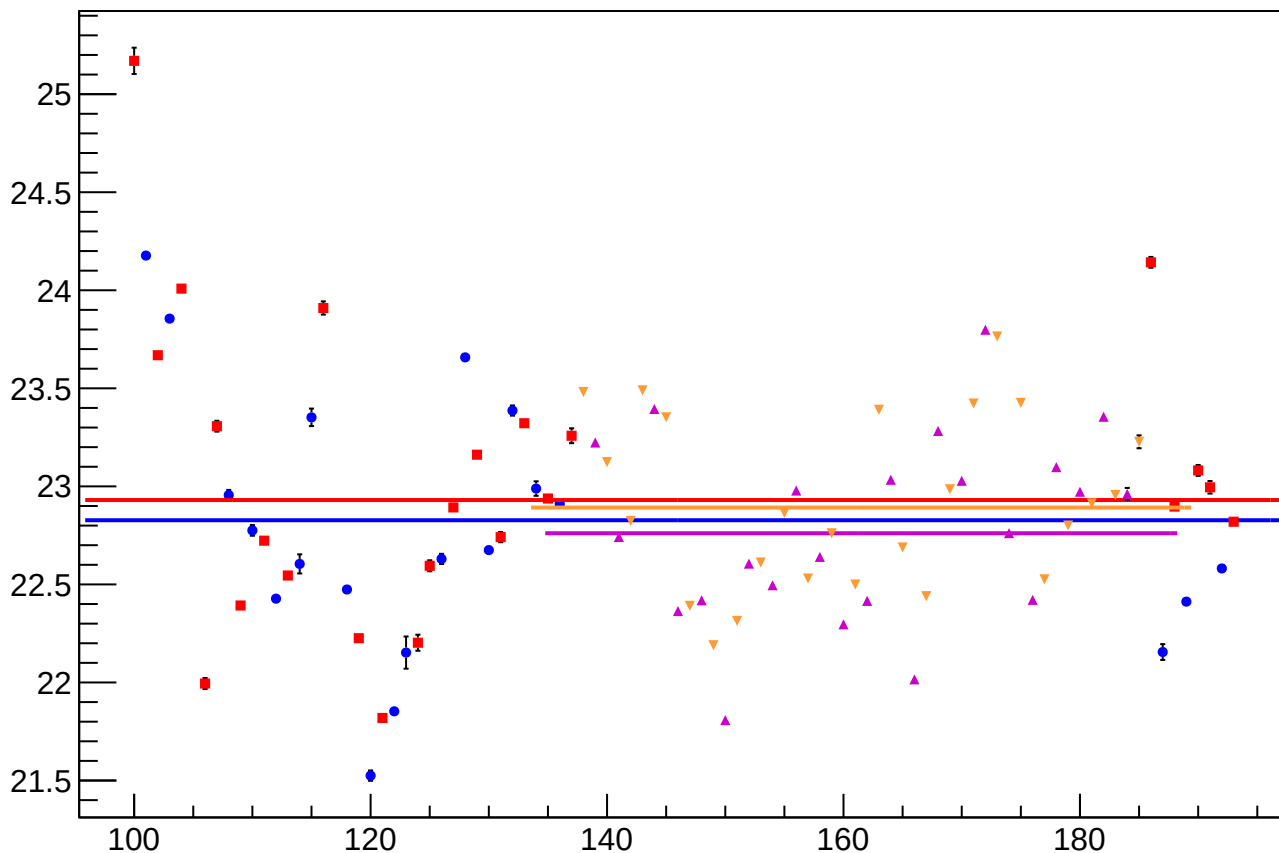
Right: 3.706 ± 5.400 χ^2/NDF : 45.9/43

In: 1.437 ± 4.504 χ^2/NDF : 43.3/42

Out: 9.580 ± 4.318 χ^2/NDF : 59.4/48

All: 5.679 ± 3.117 χ^2/NDF : 104.4/91

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.827 $\pm$ 0.006 χ^2 /NDF: 13262.2/19

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.930 $\pm$ 0.005 χ^2 /NDF: 13170.4/23

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

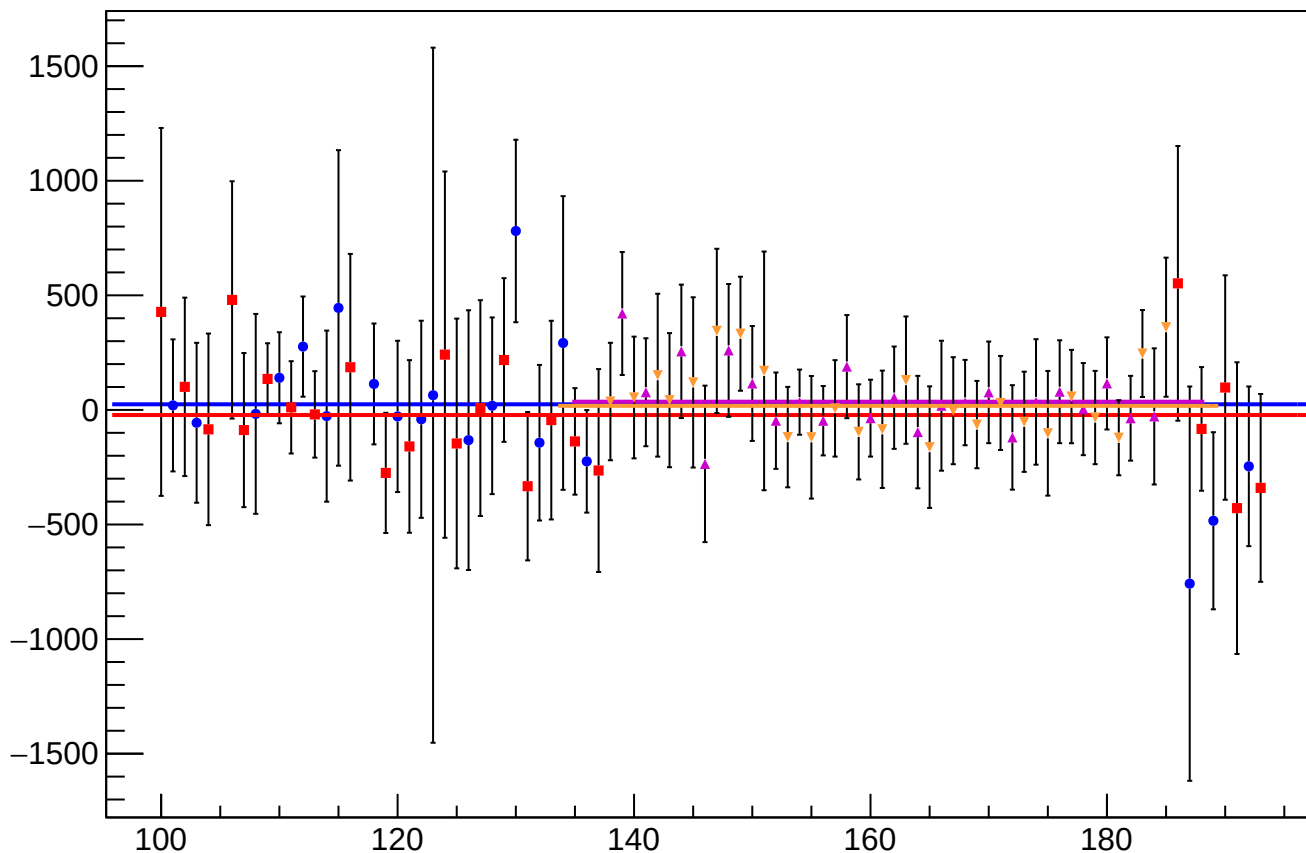
Right: 22.883 $\pm$ 0.004 χ^2 /NDF: 26613.6/43

In: 22.782 $\pm$ 0.003 χ^2 /NDF:27906.8/42

Out: 22.905 $\pm$ 0.003 χ^2 /NDF:26201.7/48

All: 22.846 $\pm$ 0.002 χ^2 /NDF: 54884.8/91

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 24.540 $\pm$ 75.807 χ^2 /NDF: 10.8/19

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -22.315 $\pm$ 65.784 χ^2 /NDF: 7.8/23

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.383 $\pm$ 32.844 χ^2 /NDF: 14.9/47

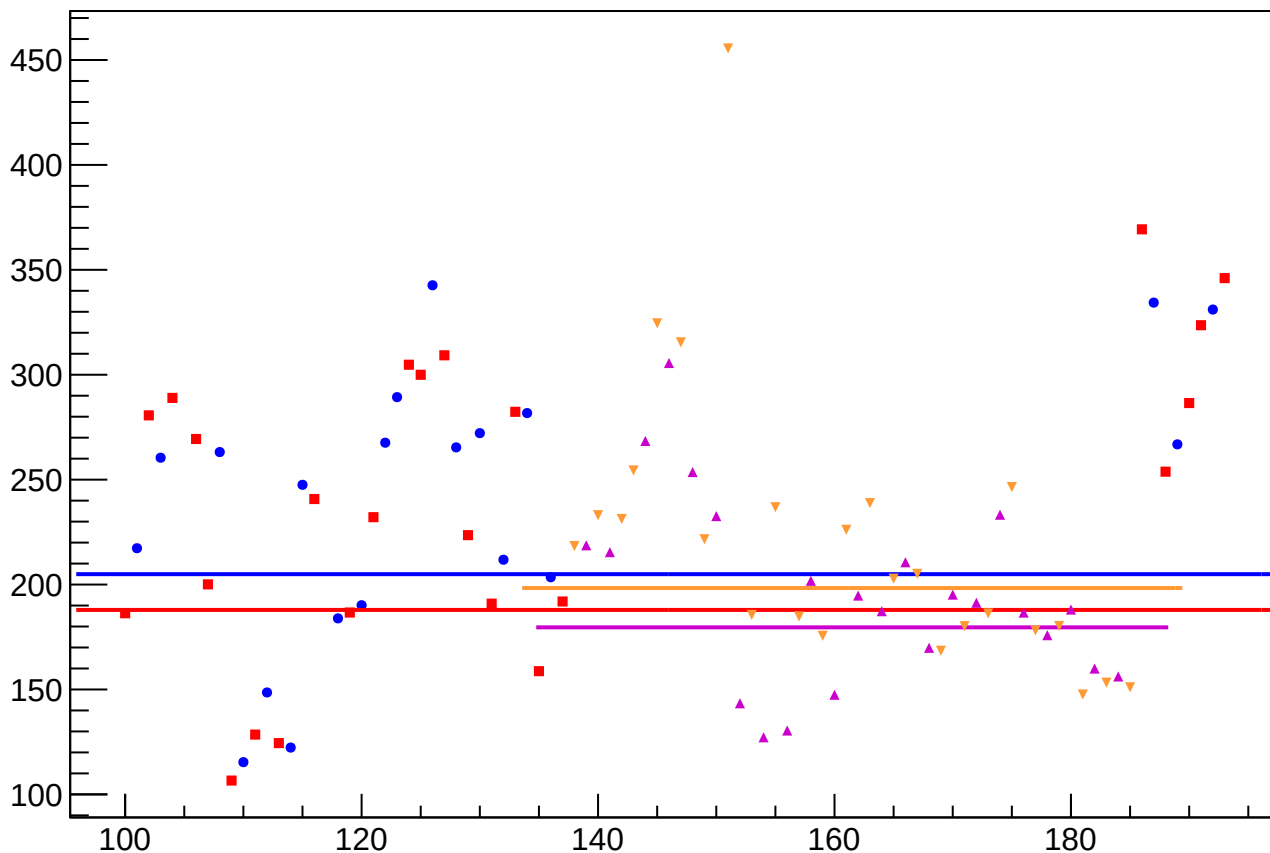
Right: -2.188 $\pm$ 49.685 χ^2 /NDF: 18.8/43

In: 32.916 $\pm$ 38.751 χ^2 /NDF:17.1/42

Out: 3.870 $\pm$ 38.744 χ^2 /NDF:16.6/48

All: 18.390 $\pm$ 27.399 χ^2 /NDF: 34.0/91

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.957 $\pm$ 0.054 χ^2 /NDF: 1413231.2/19

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 187.911 $\pm$ 0.047 χ^2 /NDF: 2458540.6/23

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

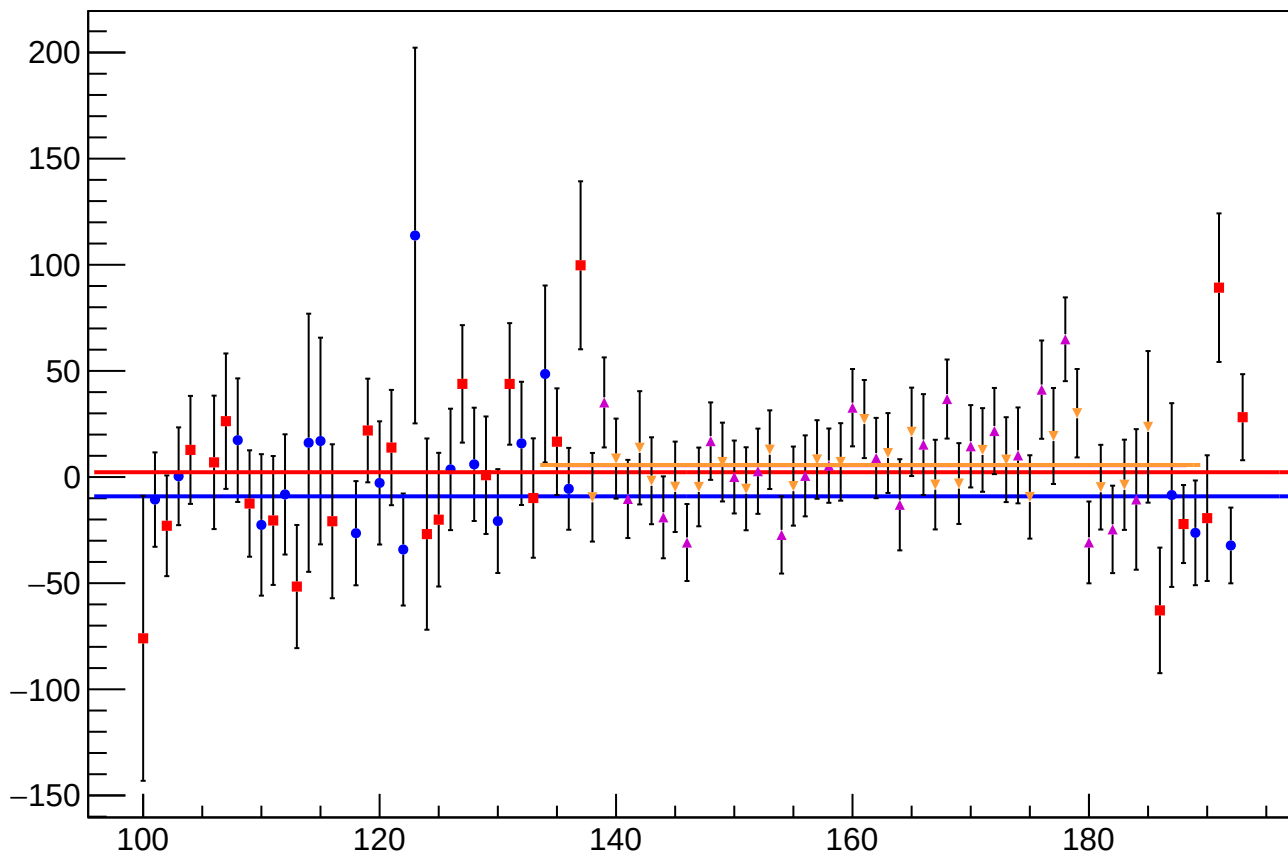
Right: 195.233 $\pm$ 0.035 χ^2 /NDF: 3929456.9/43

In: 186.230 $\pm$ 0.027 χ^2 /NDF:3154206.5/42

Out: 194.725 $\pm$ 0.027 χ^2 /NDF:4248845.8/48

All: 190.478 $\pm$ 0.019 χ^2 /NDF: 7451118.8/91

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.087 ± 6.154 $\chi^2/\text{NDF}: 10.6/19$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 2.274 ± 5.726 $\chi^2/\text{NDF}: 35.7/23$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

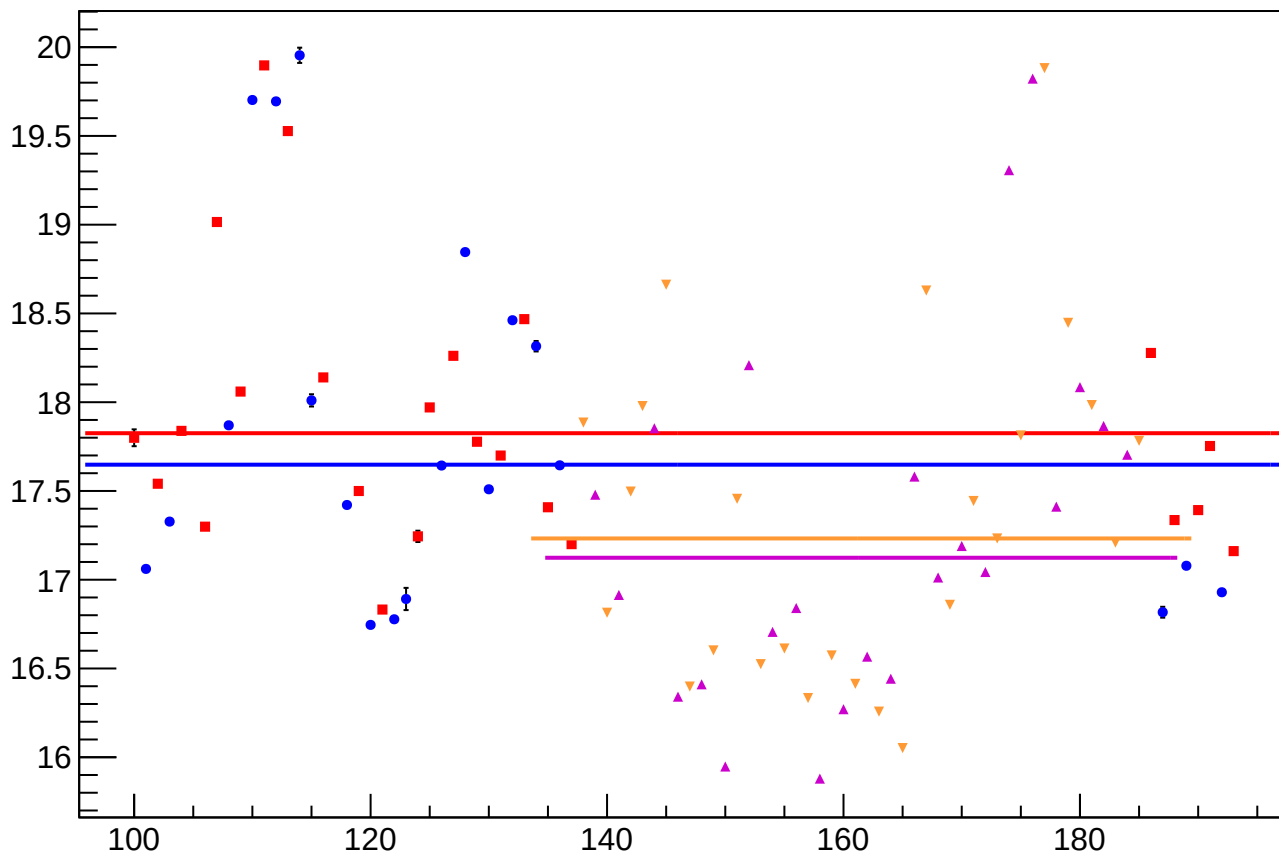
Right: -2.997 ± 4.192 $\chi^2/\text{NDF}: 48.1/43$

In: 1.049 ± 3.424 $\chi^2/\text{NDF}: 50.9/42$

Out: 4.554 ± 3.292 $\chi^2/\text{NDF}: 43.6/48$

All: 2.871 ± 2.373 $\chi^2/\text{NDF}: 95.1/91$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.648 $\pm$ 0.004 χ^2/NDF : 38586.0/19

Left Out: 17.232 $\pm$ 0.003 χ^2/NDF : 98701.0/24

Right Out: 17.825 $\pm$ 0.004 χ^2/NDF : 30659.5/23

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

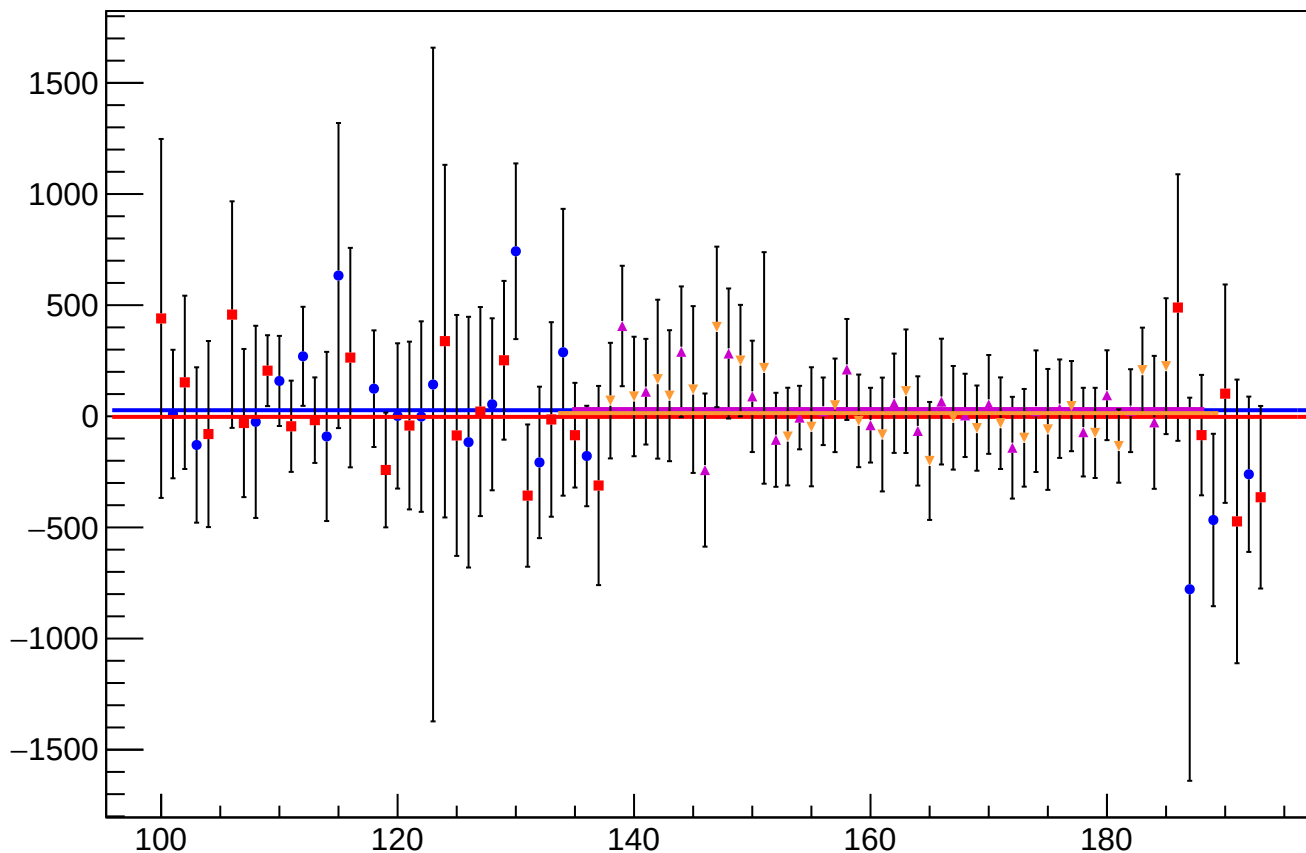
Right: 17.743 $\pm$ 0.003 χ^2/NDF : 70135.5/43

In: 17.286 $\pm$ 0.002 χ^2/NDF : 149355.3/42

Out: 17.428 $\pm$ 0.002 χ^2/NDF : 143717.0/48

All: 17.360 $\pm$ 0.002 χ^2/NDF : 294869.2/91

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 27.362+/-76.298 χ^2/NDF : 10.8/19

Left Out: 14.362+/-48.130 χ^2/NDF : 6.9/24

Right Out: -2.633+/-66.348 χ^2/NDF : 8.9/23

Left In: 32.571+/-45.248 χ^2/NDF : 6.7/22

Left: 24.028+/-32.967 χ^2/NDF : 13.7/47

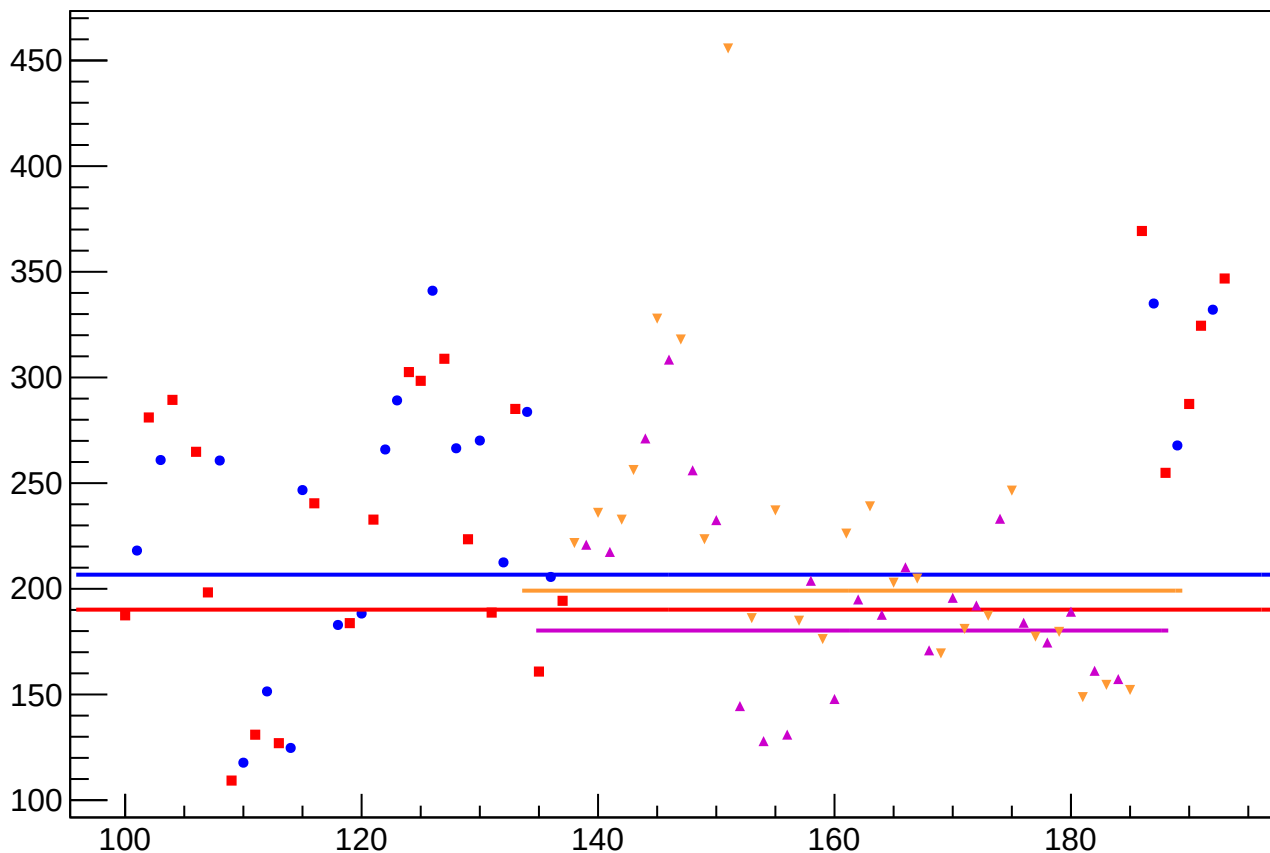
Right: 10.282+/-50.066 χ^2/NDF : 19.8/43

In: 31.215+/-38.918 χ^2/NDF : 17.6/42

Out: 8.503+/-38.959 χ^2/NDF : 15.9/48

All: 19.871+/-27.534 χ^2/NDF : 33.6/91

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.691 $\pm$ 0.054 χ^2 /NDF: 1350659.0/19

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 190.146 $\pm$ 0.047 χ^2 /NDF: 2350310.7/23

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

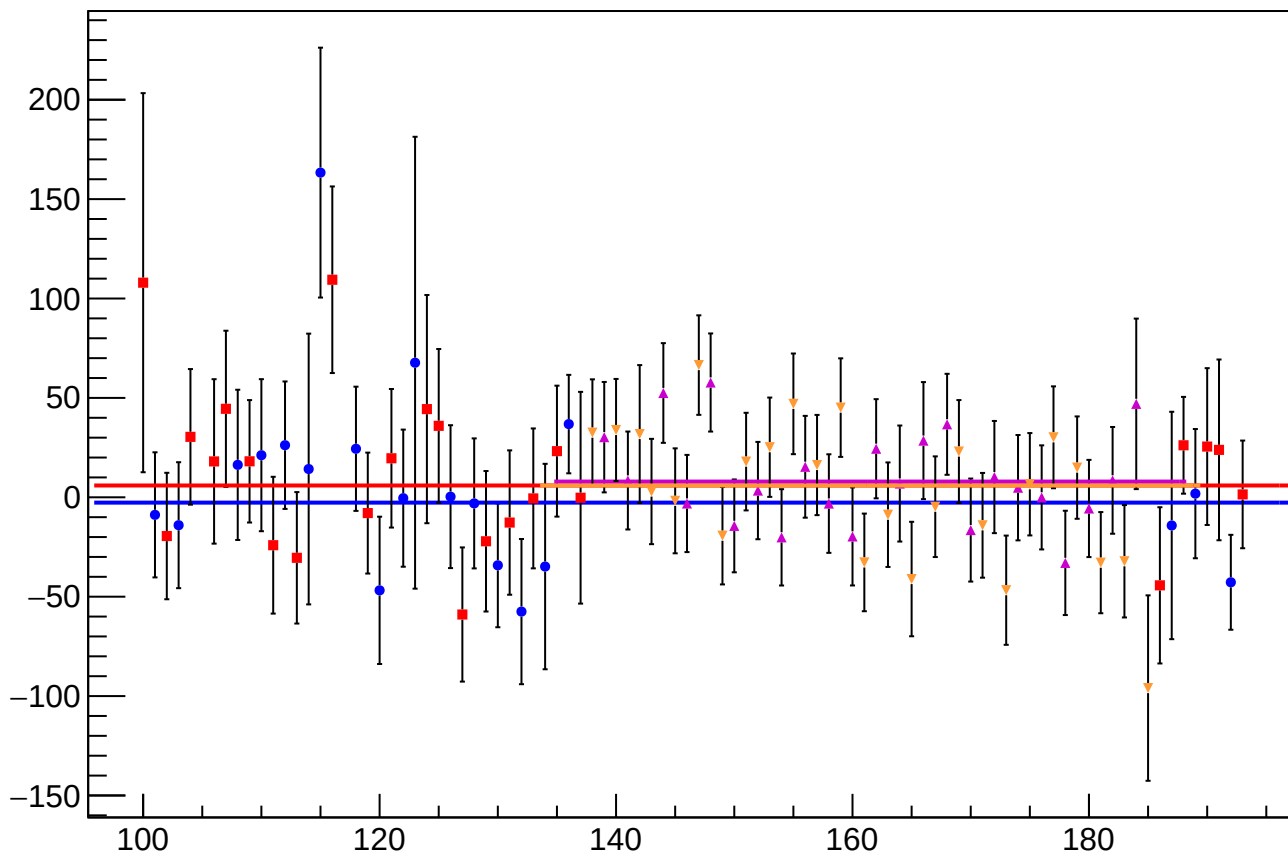
Right: 197.270 $\pm$ 0.035 χ^2 /NDF: 3754518.9/43

In: 187.134 $\pm$ 0.028 χ^2 /NDF:3108826.4/42

Out: 196.036 $\pm$ 0.028 χ^2 /NDF:4134664.7/48

All: 191.581 $\pm$ 0.019 χ^2 /NDF: 7295757.1/91

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.678 ± 7.905 χ^2/NDF : 20.3/19

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 5.943 ± 7.317 χ^2/NDF : 19.4/23

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

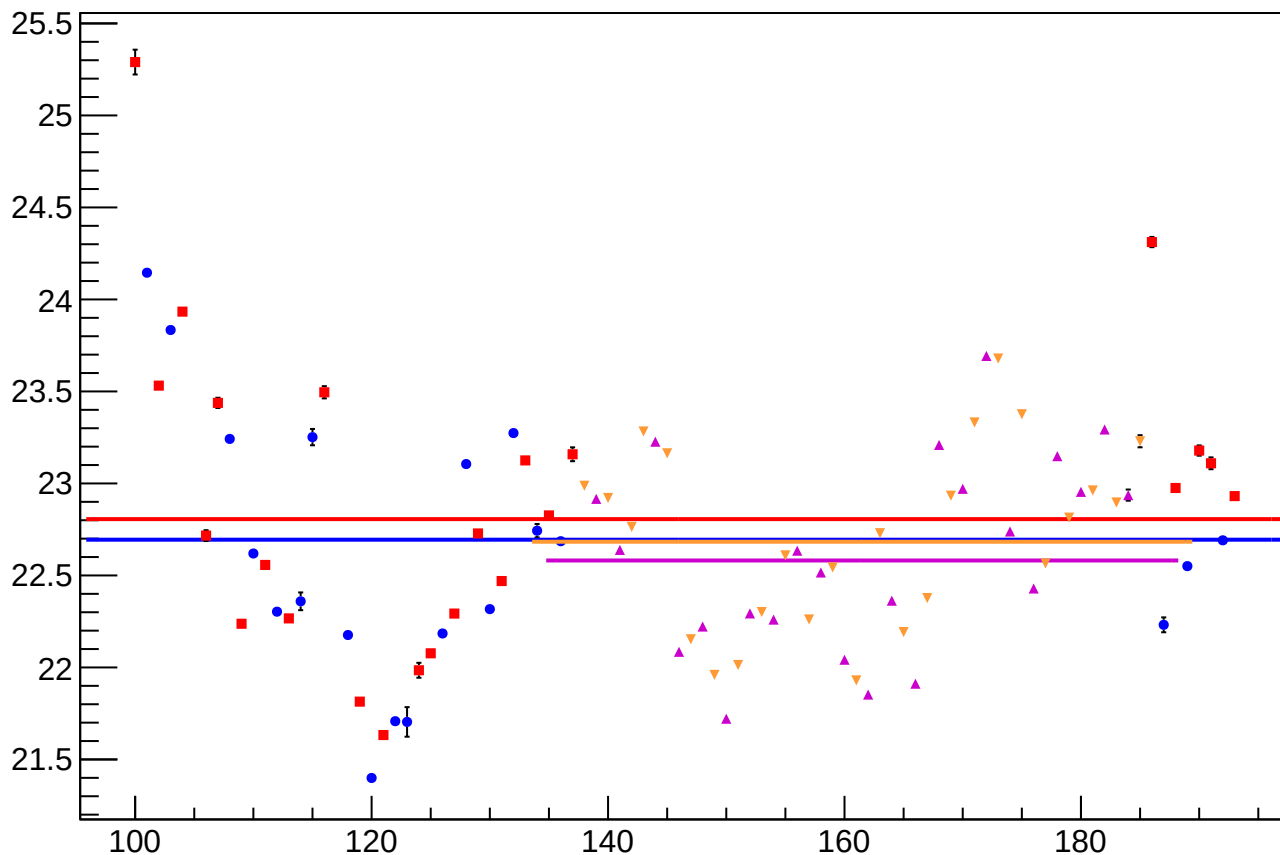
Right: 1.965 ± 5.370 χ^2/NDF : 40.4/43

In: 4.526 ± 4.471 χ^2/NDF : 40.2/42

Out: 5.939 ± 4.284 χ^2/NDF : 55.6/48

All: 5.263 ± 3.093 χ^2/NDF : 95.8/91

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.694+/-0.006 χ^2/NDF : 14240.4/19

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.806+/-0.005 χ^2/NDF : 16616.1/23

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

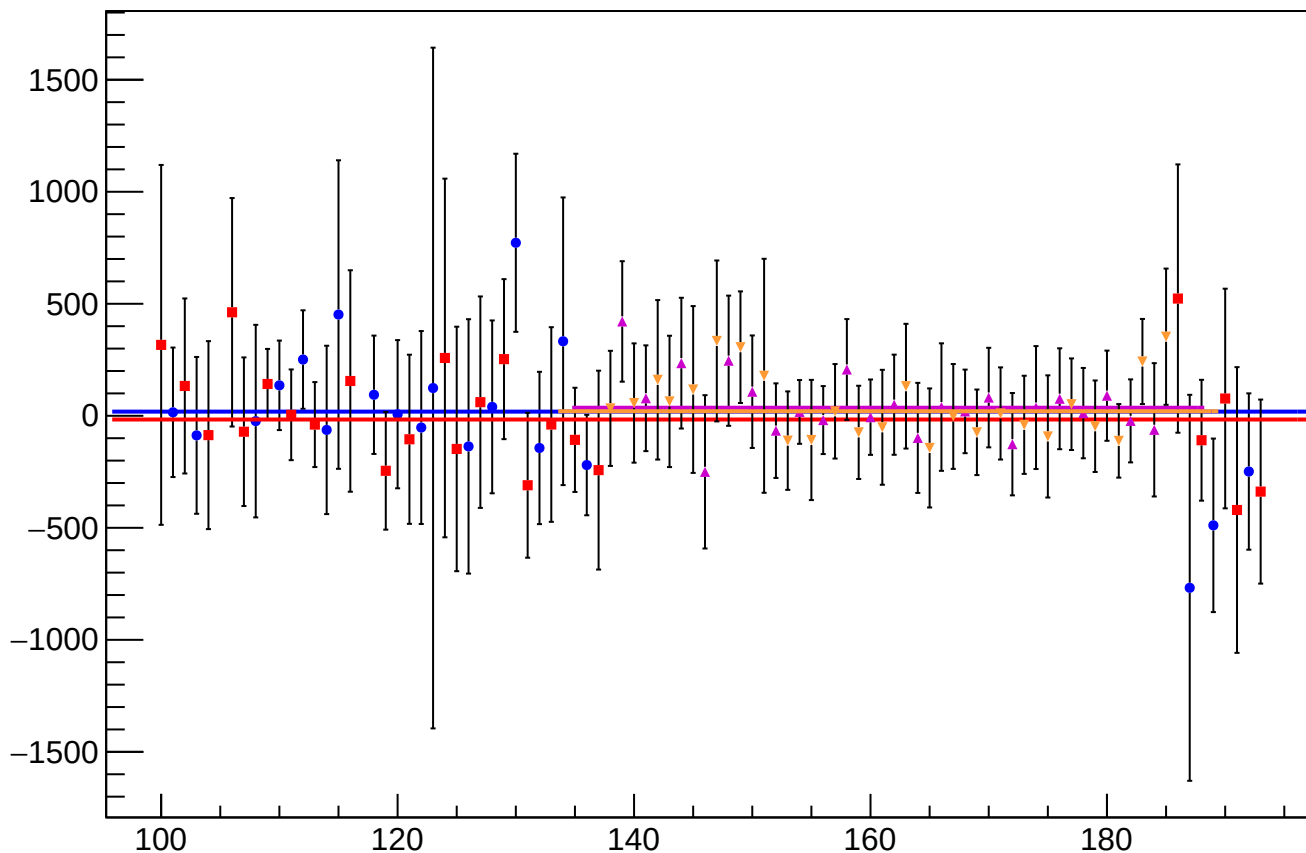
Right: 22.755+/-0.004 χ^2/NDF : 31072.2/43

In: 22.617+/-0.003 χ^2/NDF : 32422.6/42

Out: 22.725+/-0.003 χ^2/NDF : 33307.2/48

All: 22.674+/-0.002 χ^2/NDF : 66337.0/91

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 18.663 $\pm$ 75.994 χ^2 /NDF: 10.5/19

Left Out: 20.306 $\pm$ 48.049 χ^2 /NDF:7.7/24

Right Out: -16.557 $\pm$ 65.922 χ^2 /NDF: 7.2/23

Left In: 35.996 $\pm$ 45.180 χ^2 /NDF:6.1/22

Left: 28.633 $\pm$ 32.915 χ^2 /NDF: 13.8/47

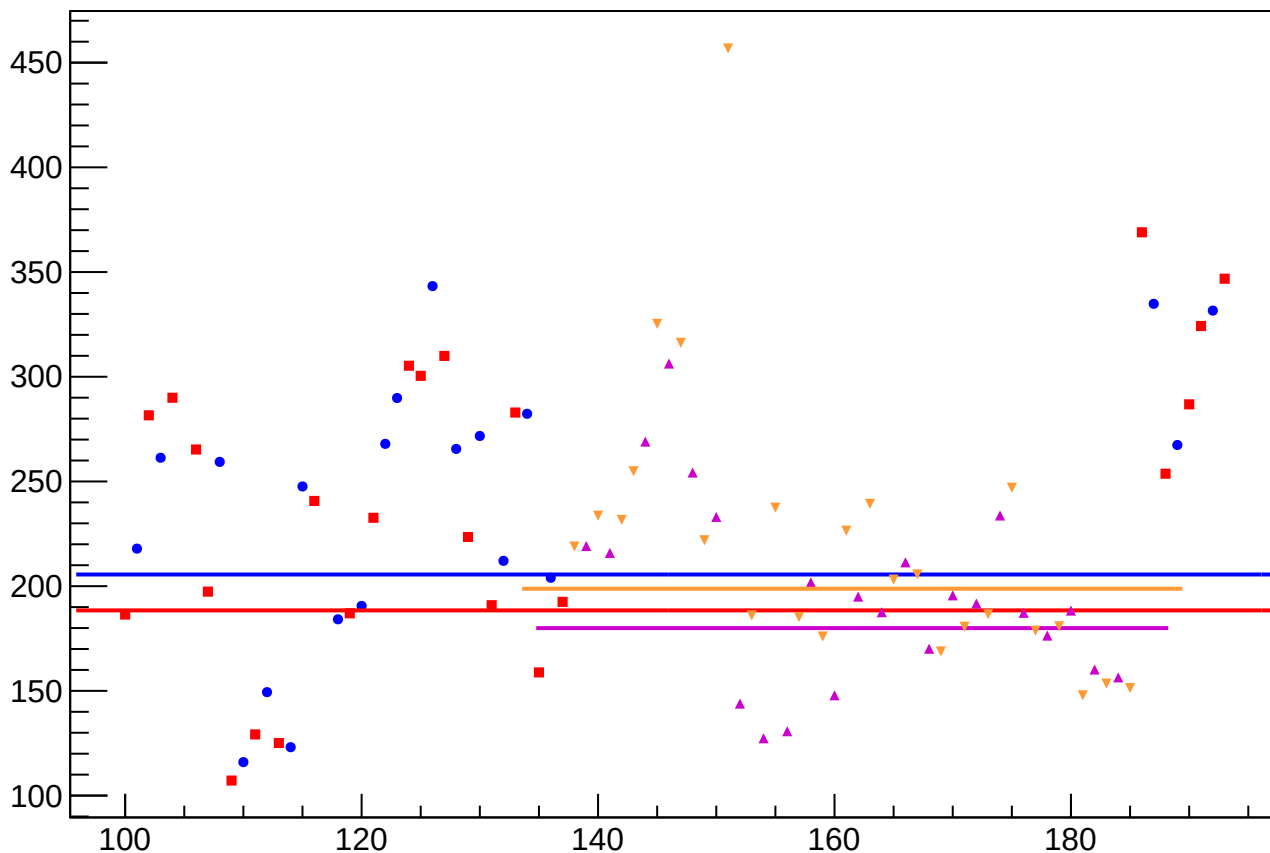
Right: -1.434 $\pm$ 49.797 χ^2 /NDF: 17.9/43

In: 31.469 $\pm$ 38.835 χ^2 /NDF:16.6/42

Out: 7.517 $\pm$ 38.829 χ^2 /NDF:15.1/48

All: 19.491 $\pm$ 27.458 χ^2 /NDF: 31.9/91

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.580 $\pm$ 0.054 χ^2 /NDF: 1395682.6/19

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 188.436 $\pm$ 0.047 χ^2 /NDF: 2434781.7/23

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

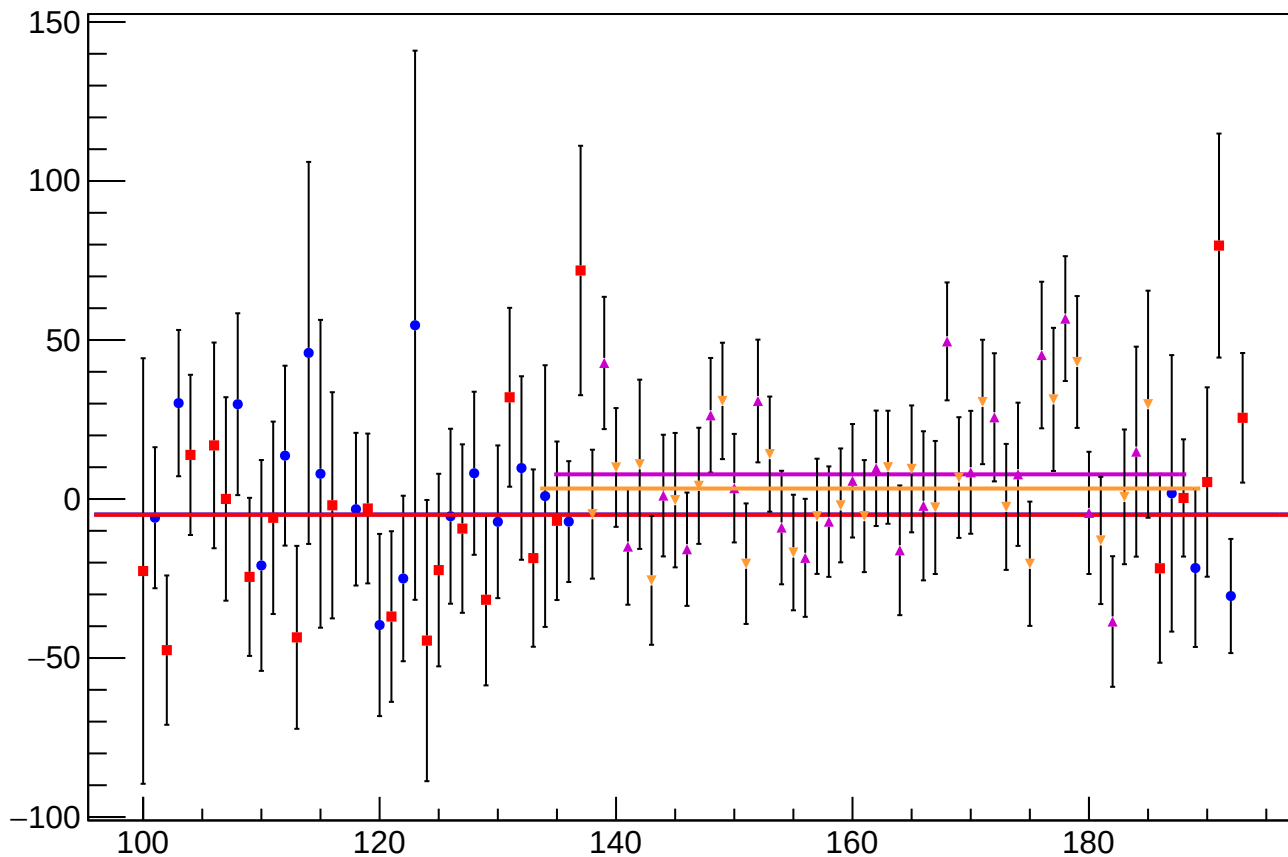
Right: 195.798 $\pm$ 0.035 χ^2 /NDF: 3888545.6/43

In: 186.660 $\pm$ 0.027 χ^2 /NDF:3139366.0/42

Out: 195.194 $\pm$ 0.027 χ^2 /NDF:4225446.9/48

All: 190.928 $\pm$ 0.019 χ^2 /NDF: 7413113.9/91

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.869 ± 6.089 $\chi^2/\text{NDF}: 10.9/19$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: -4.953 ± 5.672 $\chi^2/\text{NDF}: 24.7/23$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

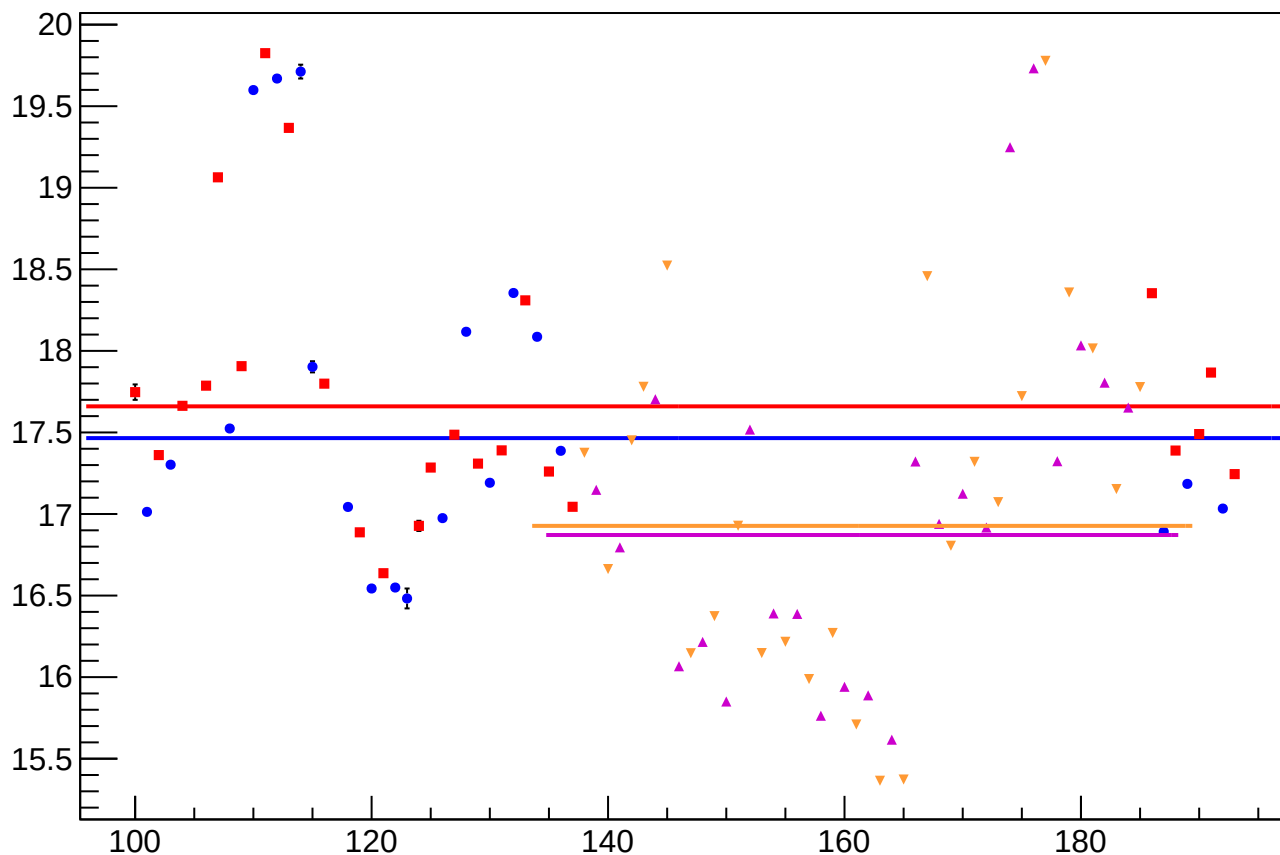
Right: -4.914 ± 4.150 $\chi^2/\text{NDF}: 35.6/43$

In: 3.870 ± 3.378 $\chi^2/\text{NDF}: 48.1/42$

Out: 0.606 ± 3.243 $\chi^2/\text{NDF}: 44.9/48$

All: 2.171 ± 2.340 $\chi^2/\text{NDF}: 93.5/91$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.465 ± 0.004 $\chi^2/\text{NDF}: 36104.3/19$

Left Out: 16.927 ± 0.003 $\chi^2/\text{NDF}: 138533.2/24$

Right Out: 17.660 ± 0.004 $\chi^2/\text{NDF}: 32834.7/23$

Left In: 16.871 ± 0.003 $\chi^2/\text{NDF}: 117993.8/22$

Left: 16.900 ± 0.002 $\chi^2/\text{NDF}: 256722.4/47$

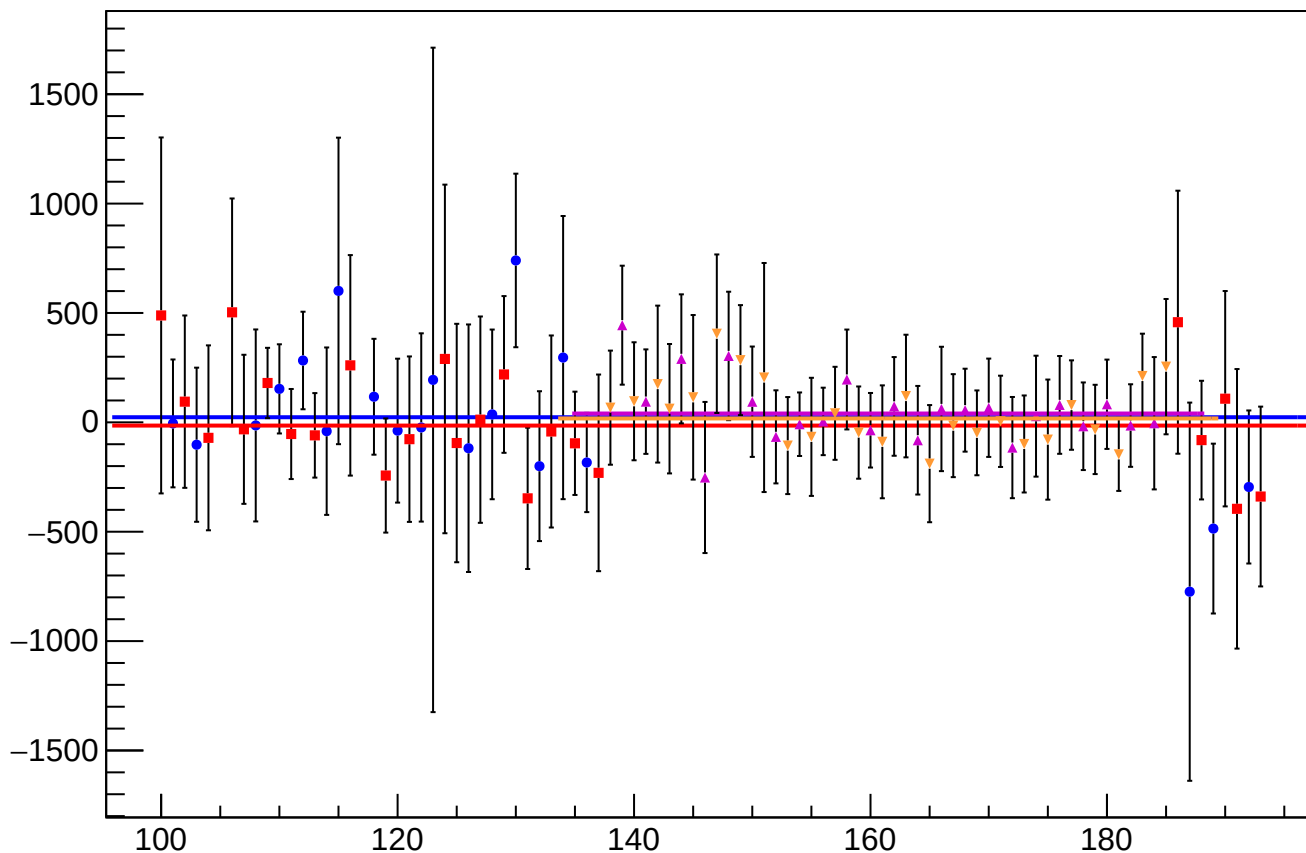
Right: 17.570 ± 0.003 $\chi^2/\text{NDF}: 70033.7/43$

In: 17.054 ± 0.002 $\chi^2/\text{NDF}: 167270.9/42$

Out: 17.167 ± 0.002 $\chi^2/\text{NDF}: 193828.1/48$

All: 17.113 ± 0.002 $\chi^2/\text{NDF}: 362258.3/91$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 23.376 $\pm$ 76.707 χ^2 /NDF: 11.0/19

Left Out: 17.828 $\pm$ 48.547 χ^2 /NDF:7.5/24

Right Out: -14.779 $\pm$ 66.763 χ^2 /NDF: 7.8/23

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

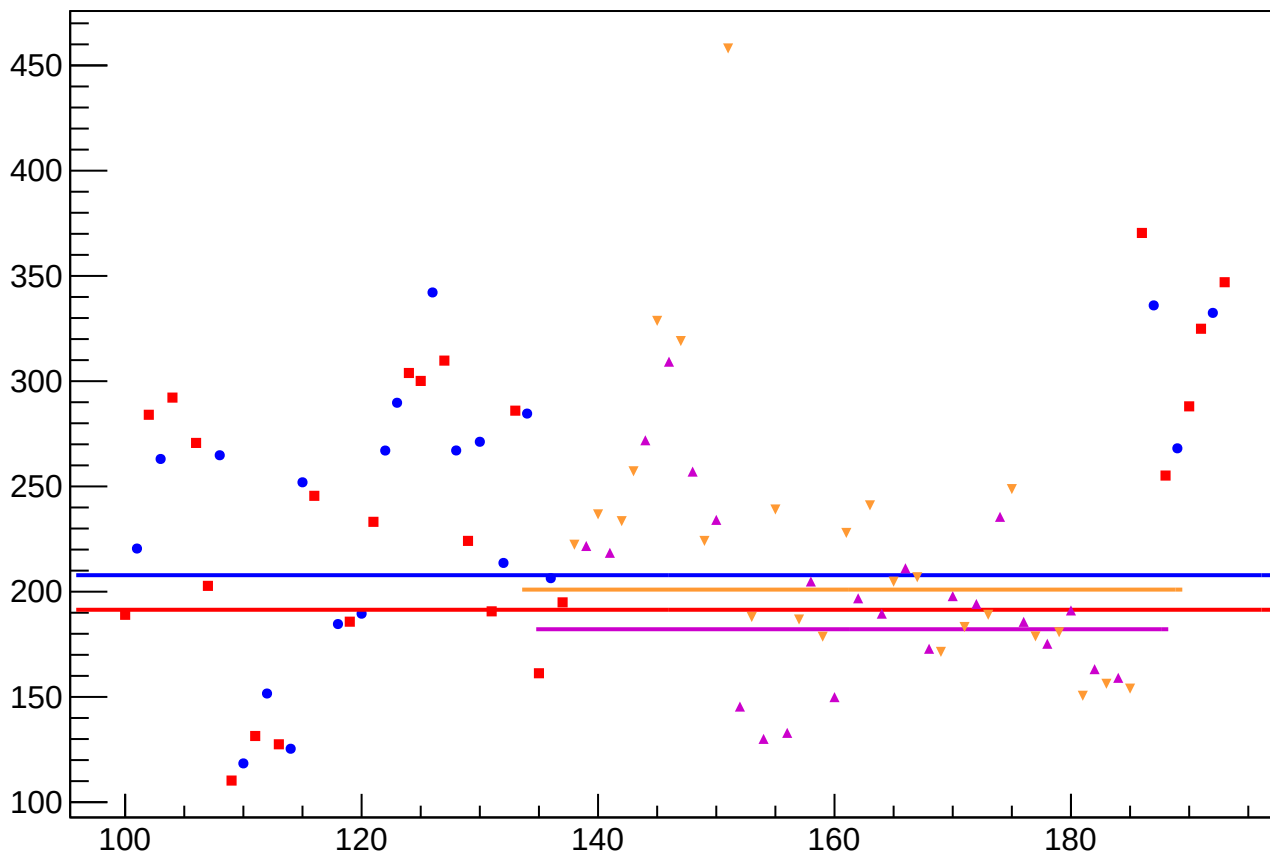
Right: 1.667 $\pm$ 50.360 χ^2 /NDF: 18.9/43

In: 35.909 $\pm$ 39.253 χ^2 /NDF:17.6/42

Out: 6.550 $\pm$ 39.264 χ^2 /NDF:15.5/48

All: 21.233 $\pm$ 27.760 χ^2 /NDF: 33.4/91

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 207.834 $\pm$ 0.054 χ^2 /NDF: 1349701.7/19

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 191.409 $\pm$ 0.047 χ^2 /NDF: 2346366.6/23

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2 /NDF: 3422724.8/47

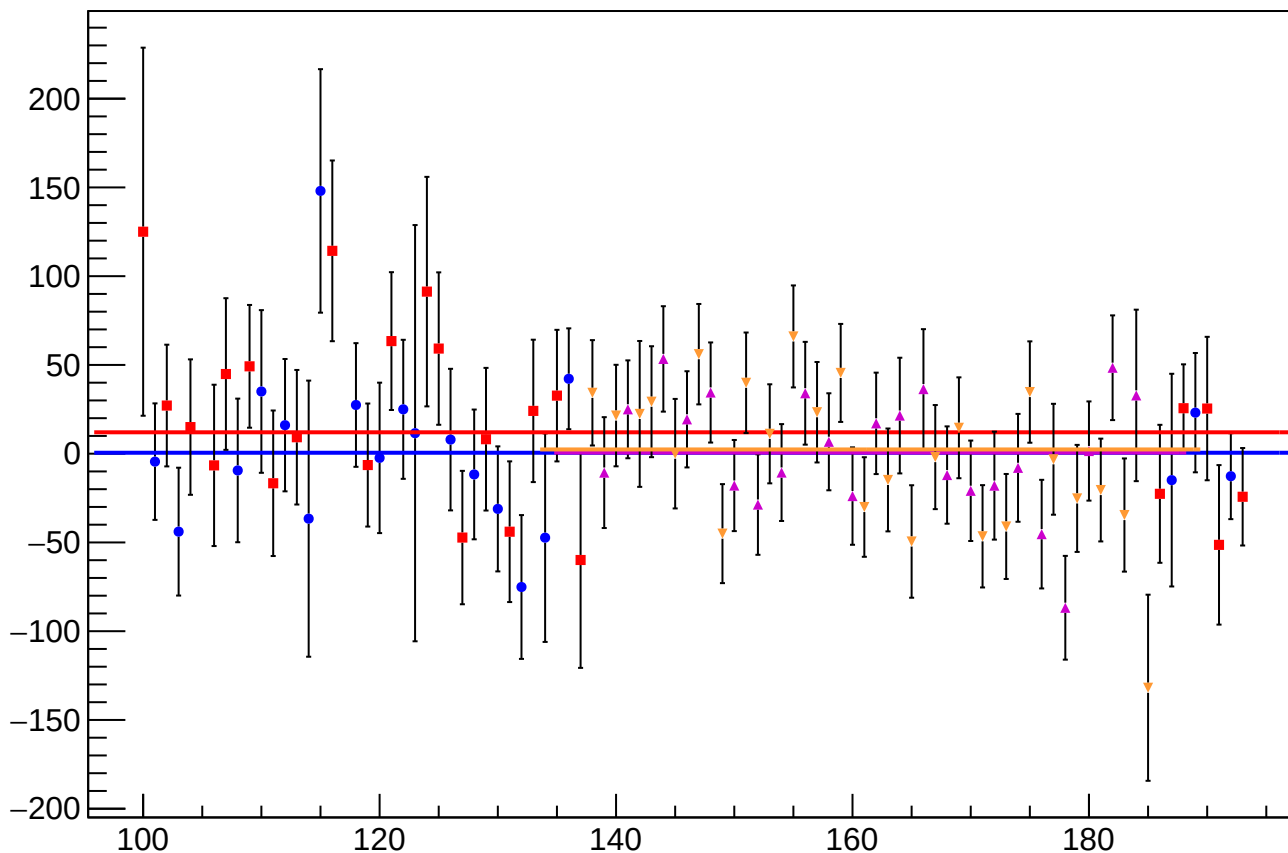
Right: 198.488 $\pm$ 0.036 χ^2 /NDF: 3748243.3/43

In: 188.882 $\pm$ 0.028 χ^2 /NDF:3051021.5/42

Out: 197.673 $\pm$ 0.028 χ^2 /NDF:4100575.3/48

All: 193.276 $\pm$ 0.020 χ^2 /NDF: 7201741.4/91

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.527 ± 8.710 $\chi^2/\text{NDF}: 16.3/19$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 12.048 ± 7.962 $\chi^2/\text{NDF}: 23.8/23$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

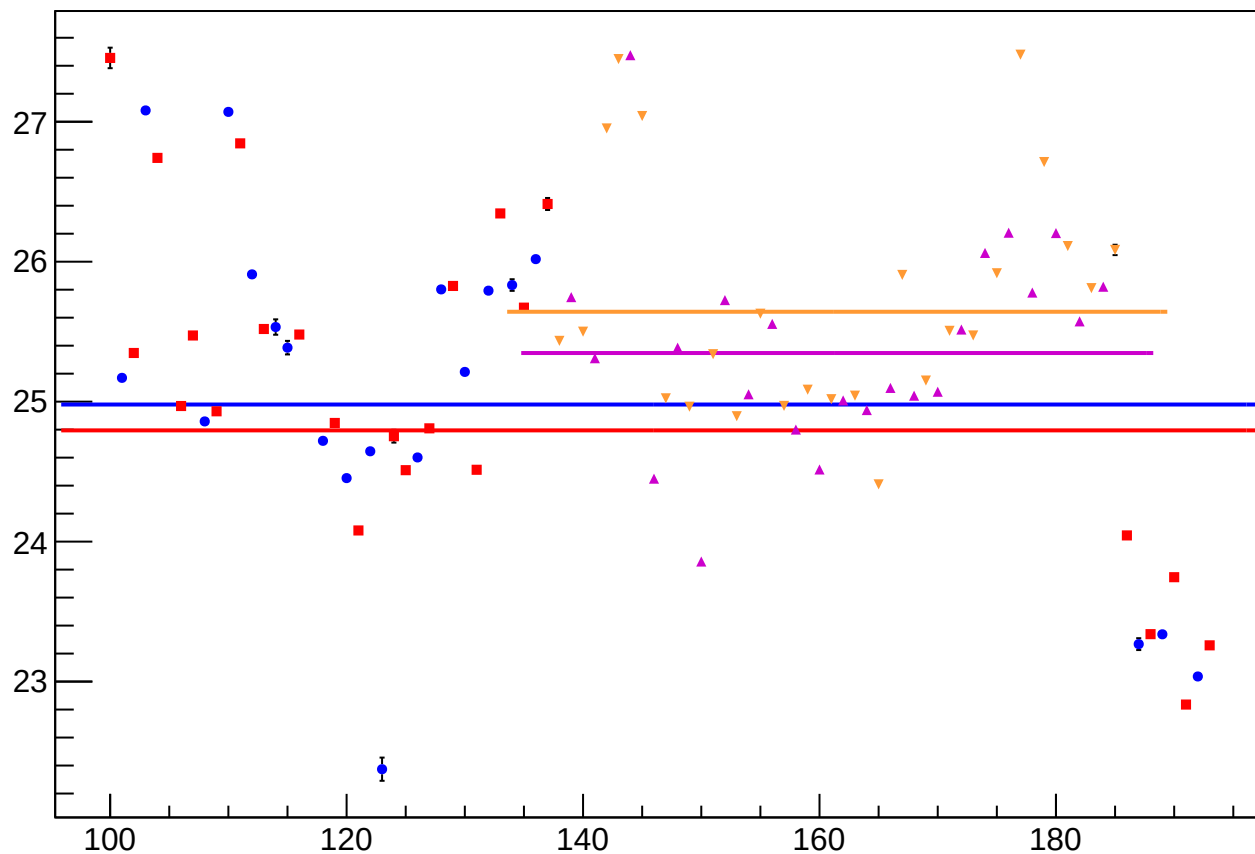
Right: 6.803 ± 5.877 $\chi^2/\text{NDF}: 41.0/43$

In: 0.604 ± 4.992 $\chi^2/\text{NDF}: 43.6/42$

Out: 5.873 ± 4.782 $\chi^2/\text{NDF}: 63.9/48$

All: 3.351 ± 3.453 $\chi^2/\text{NDF}: 108.0/91$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.979 $\pm$ 0.006 χ^2 /NDF: 38504.2/19

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF: 34802.2/24

Right Out: 24.795 $\pm$ 0.006 χ^2 /NDF: 40519.0/23

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

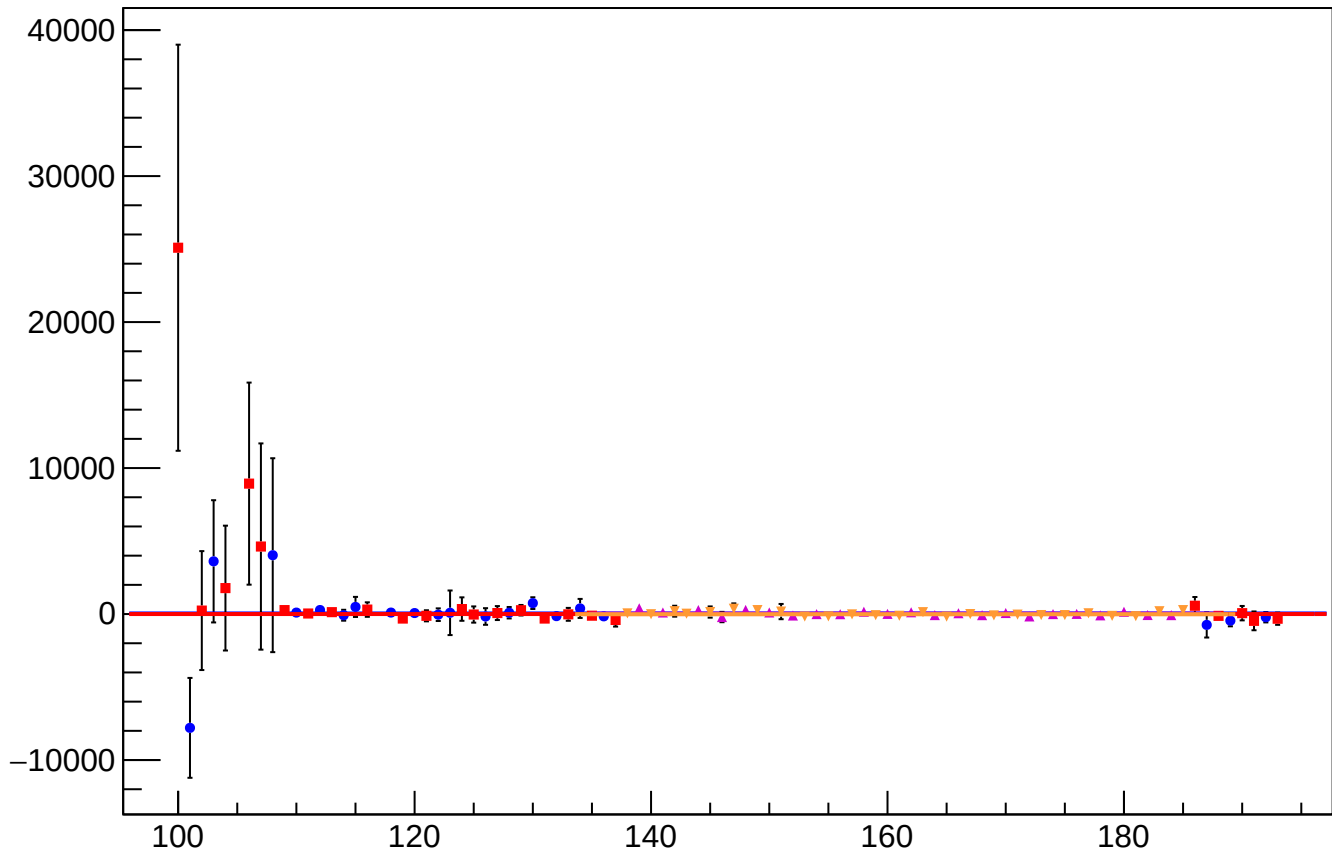
Right: 24.879 $\pm$ 0.004 χ^2 /NDF: 79513.4/43

In: 25.227 $\pm$ 0.004 χ^2 /NDF: 70290.4/42

Out: 25.337 $\pm$ 0.003 χ^2 /NDF: 89810.3/48

All: 25.284 $\pm$ 0.002 χ^2 /NDF: 160607.8/91

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 40.174+/-82.969 χ^2/NDF : 15.7/19

Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24

Right Out: 0.402+/-74.269 χ^2/NDF : 14.3/23

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47

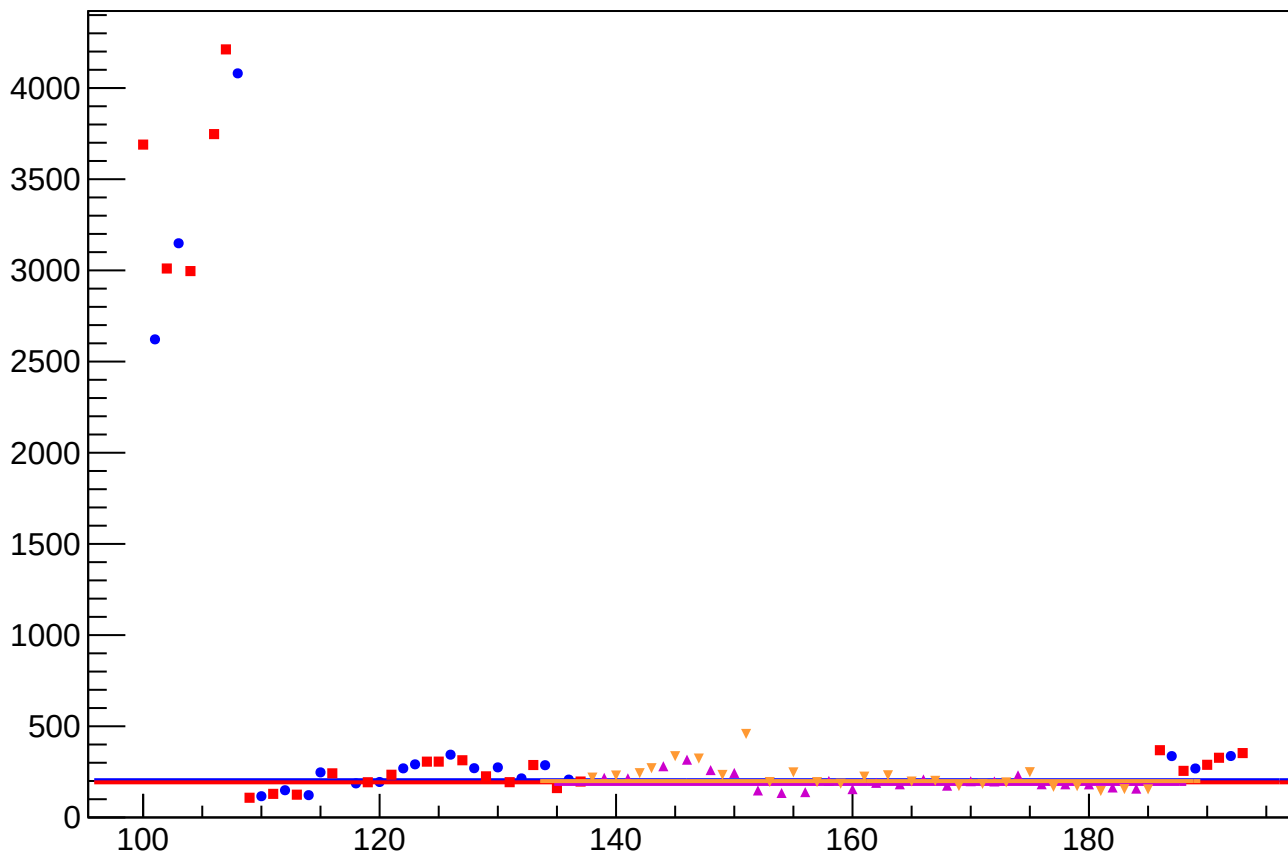
Right: 18.094+/-55.337 χ^2/NDF : 30.1/43

In: 30.172+/-40.230 χ^2/NDF : 22.9/42

Out: -7.918+/-40.469 χ^2/NDF : 22.3/48

All: 11.240+/-28.531 χ^2/NDF : 45.7/91

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.237 $\pm$ 0.059 χ^2 /NDF: 3997742.3/19

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF:1877848.7/24

Right Out: 192.598 $\pm$ 0.053 χ^2 /NDF: 5056660.9/23

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF:1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

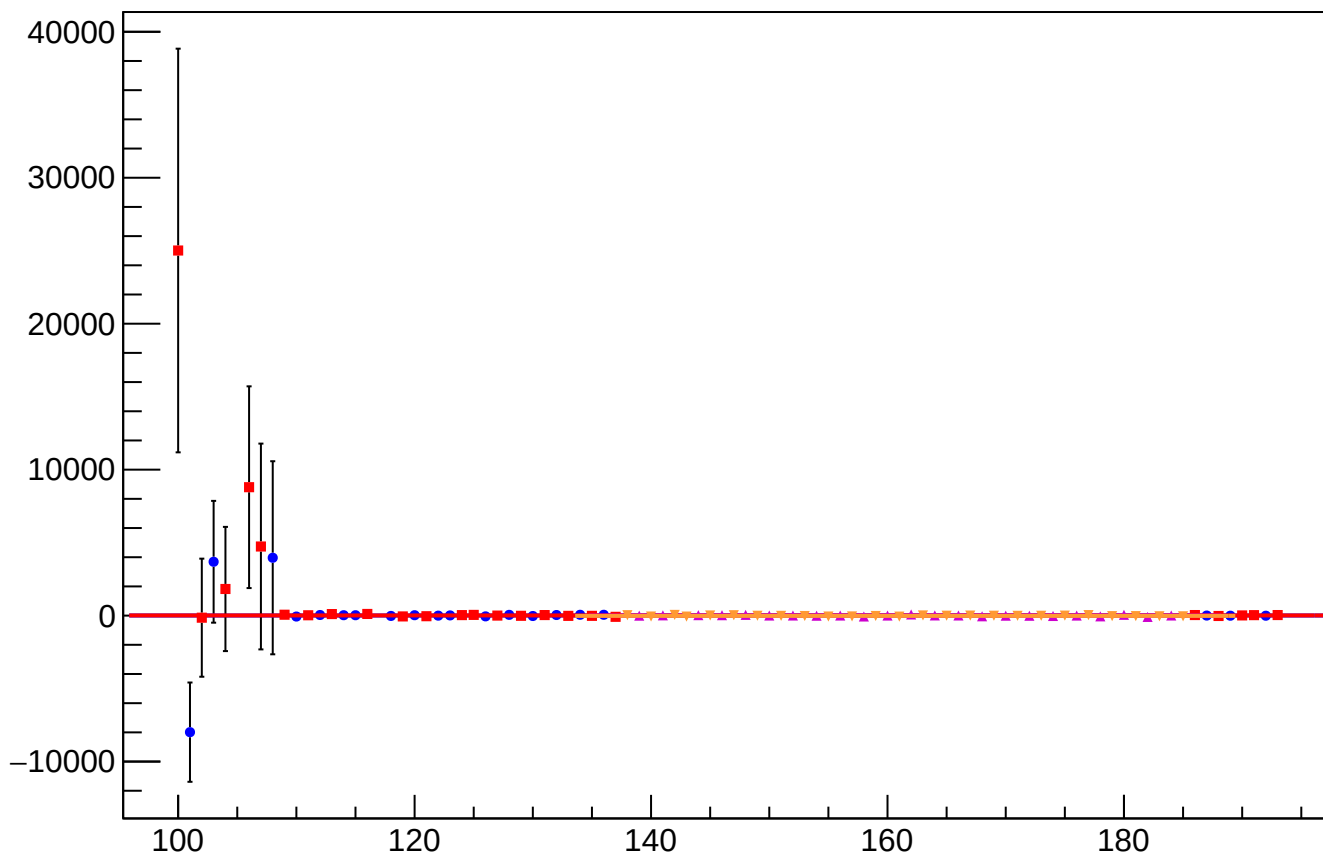
Right: 197.776 $\pm$ 0.039 χ^2 /NDF: 9076253.2/43

In: 188.609 $\pm$ 0.028 χ^2 /NDF:5503386.8/42

Out: 197.407 $\pm$ 0.029 χ^2 /NDF:6946436.2/48

All: 192.982 $\pm$ 0.020 χ^2 /NDF: 12497372.6/92

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.160+/-10.643 χ^2/NDF : 18.8/19

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 12.134+/-10.014 χ^2/NDF : 26.5/23

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

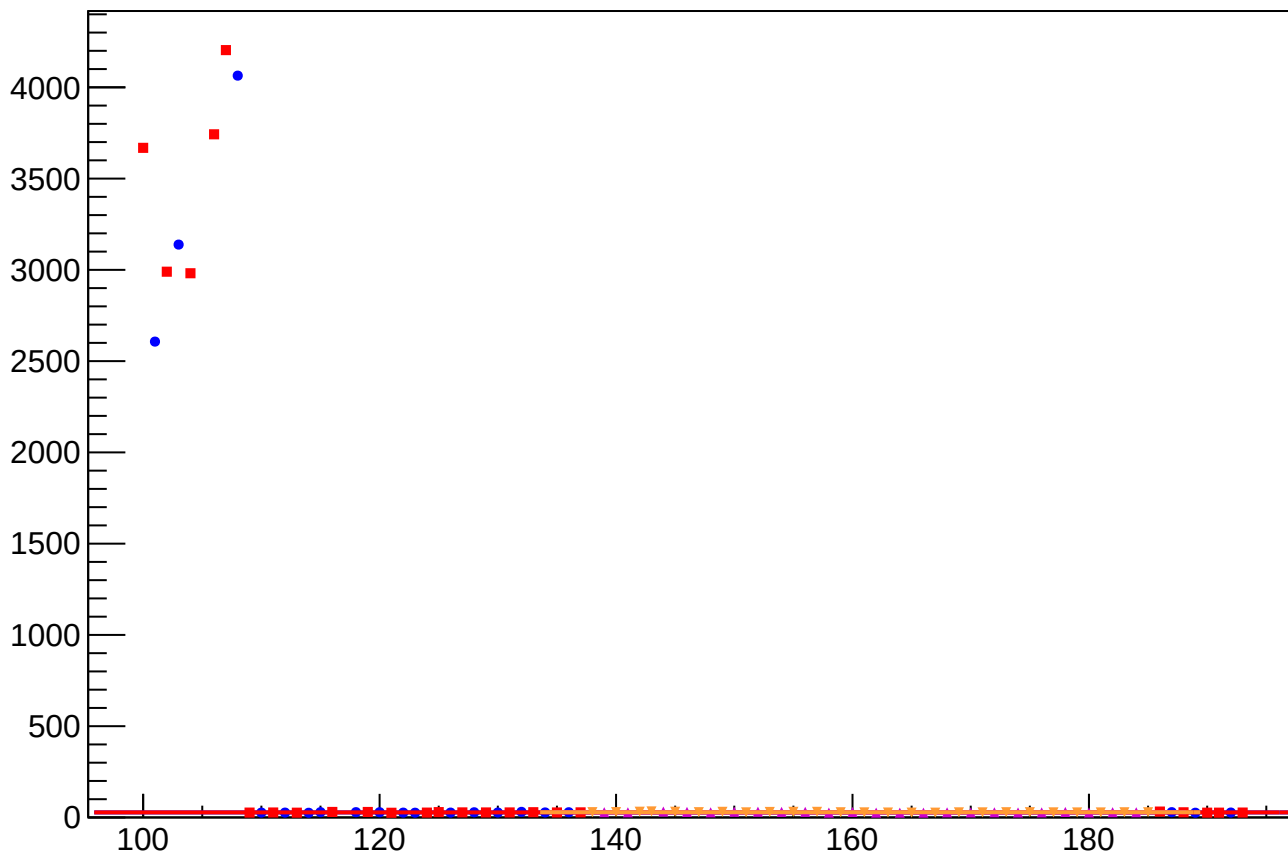
Right: 9.798+/-7.293 χ^2/NDF : 45.4/43

In: 3.014+/-5.794 χ^2/NDF : 51.0/42

Out: -8.756+/-5.571 χ^2/NDF : 54.6/48

All: -3.102+/-4.016 χ^2/NDF : 107.7/91

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.598 $\pm$ 0.008 χ^2 /NDF: 3033662.2/19

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.720 $\pm$ 0.007 χ^2 /NDF: 3497782.6/23

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

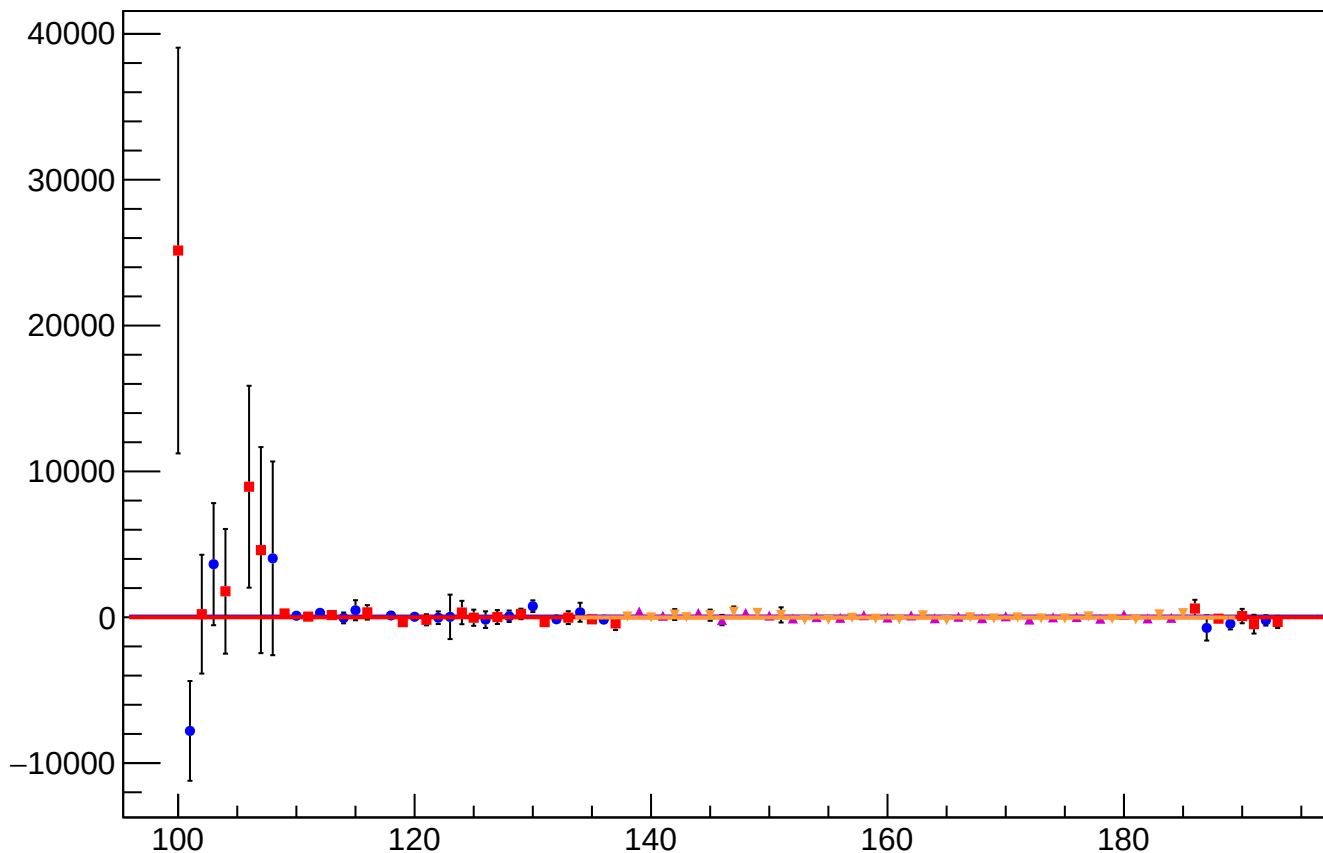
Right: 27.663 $\pm$ 0.005 χ^2 /NDF: 6531586.3/43

In: 28.357 $\pm$ 0.004 χ^2 /NDF: 3171946.8/42

Out: 28.393 $\pm$ 0.004 χ^2 /NDF: 3621295.7/48

All: 28.375 $\pm$ 0.003 χ^2 /NDF: 6793281.9/91

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 44.831+/-82.723 χ^2/NDF : 16.0/19

Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24

Right Out: -5.124+/-74.061 χ^2/NDF : 15.1/23

Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47

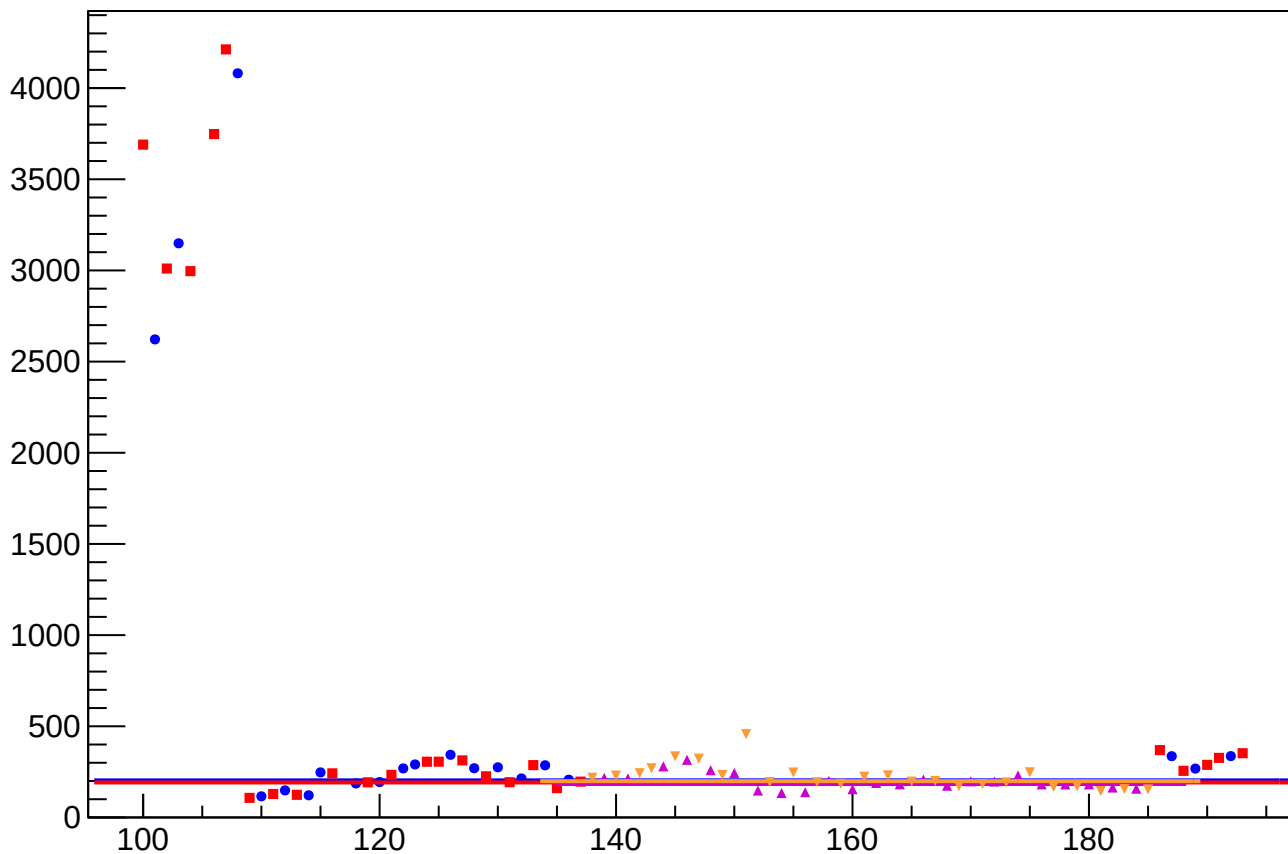
Right: 17.102+/-55.178 χ^2/NDF : 31.2/43

In: 31.418+/-40.140 χ^2/NDF : 23.5/42

Out: -11.277+/-40.372 χ^2/NDF : 23.9/48

All: 10.193+/-28.465 χ^2/NDF : 47.9/91

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 203.513 $\pm$ 0.058 χ^2 /NDF: 4012319.7/19

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 191.930 $\pm$ 0.052 χ^2 /NDF: 5074918.5/23

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

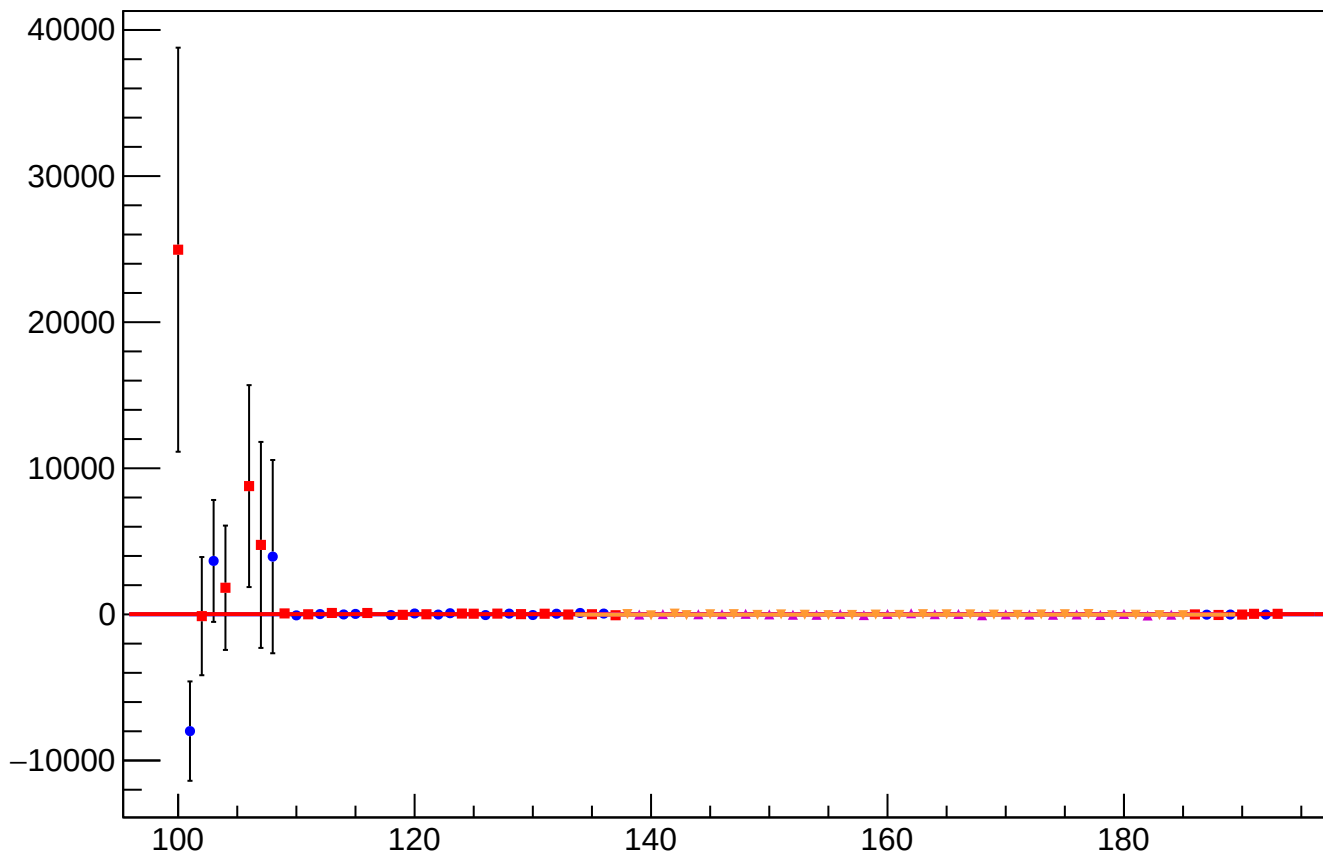
Right: 197.084 $\pm$ 0.039 χ^2 /NDF: 9109004.7/43

In: 188.168 $\pm$ 0.028 χ^2 /NDF:5514684.2/42

Out: 196.897 $\pm$ 0.029 χ^2 /NDF:6965351.6/48

All: 192.507 $\pm$ 0.020 χ^2 /NDF: 12527055.5/92

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.478+/-10.693 χ^2/NDF : 23.2/19

Left Out: -15.829+/-6.733 χ^2/NDF :16.5/24

Right Out: 19.239+/-10.053 χ^2/NDF : 21.8/23

Left In: -0.498+/-6.937 χ^2/NDF :26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

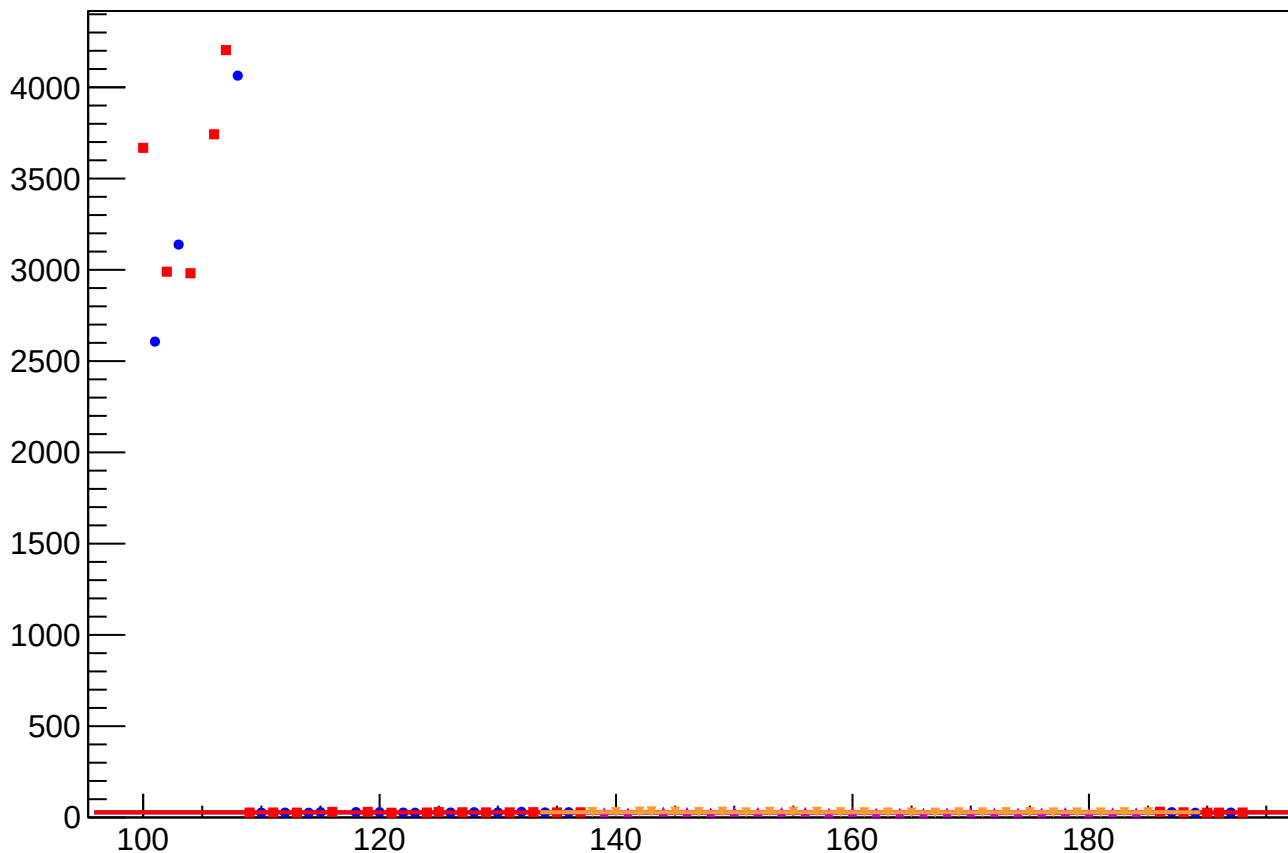
Right: 12.313+/-7.325 χ^2/NDF : 46.0/43

In: 0.976+/-5.820 χ^2/NDF :49.4/42

Out: -4.970+/-5.594 χ^2/NDF :46.7/48

All: -2.114+/-4.033 χ^2/NDF : 96.7/91

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.723+/-0.008 χ^2/NDF : 3035896.6/19

Left Out: 28.814+/-0.005 χ^2/NDF :122153.6/24

Right Out: 27.830+/-0.007 χ^2/NDF : 3495865.2/23

Left In: 28.797+/-0.005 χ^2/NDF :128279.2/22

Left: 28.806+/-0.003 χ^2/NDF : 250439.0/47

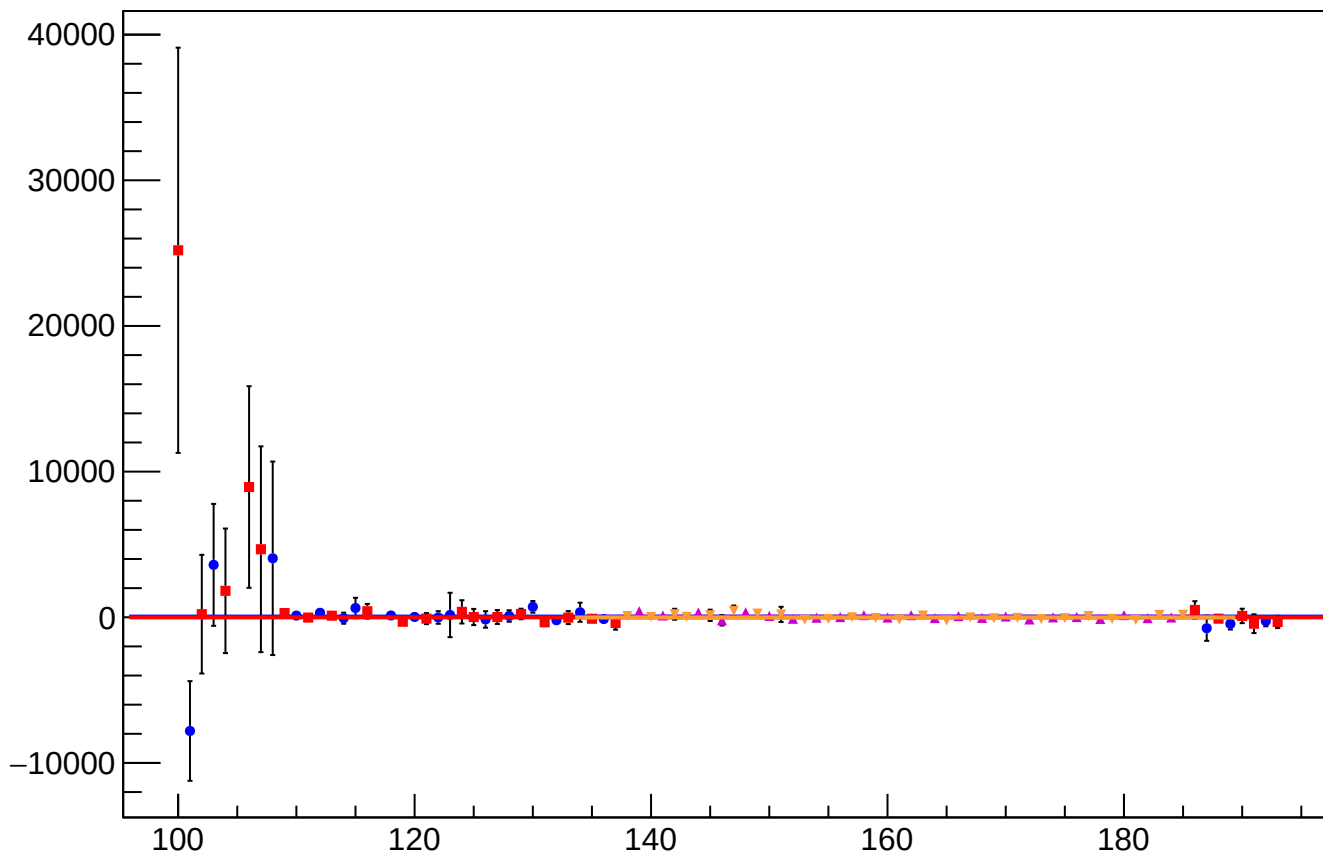
Right: 27.780+/-0.005 χ^2/NDF : 6531868.5/43

In: 28.479+/-0.004 χ^2/NDF :3178378.4/42

Out: 28.510+/-0.004 χ^2/NDF :3631242.2/48

All: 28.495+/-0.003 χ^2/NDF : 6809649.0/91

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.005+/-83.625 χ^2/NDF : 16.2/19

Left Out: -13.966+/-48.735 χ^2/NDF : 8.1/24

Right Out: -6.936+/-74.944 χ^2/NDF : 14.2/23

Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47

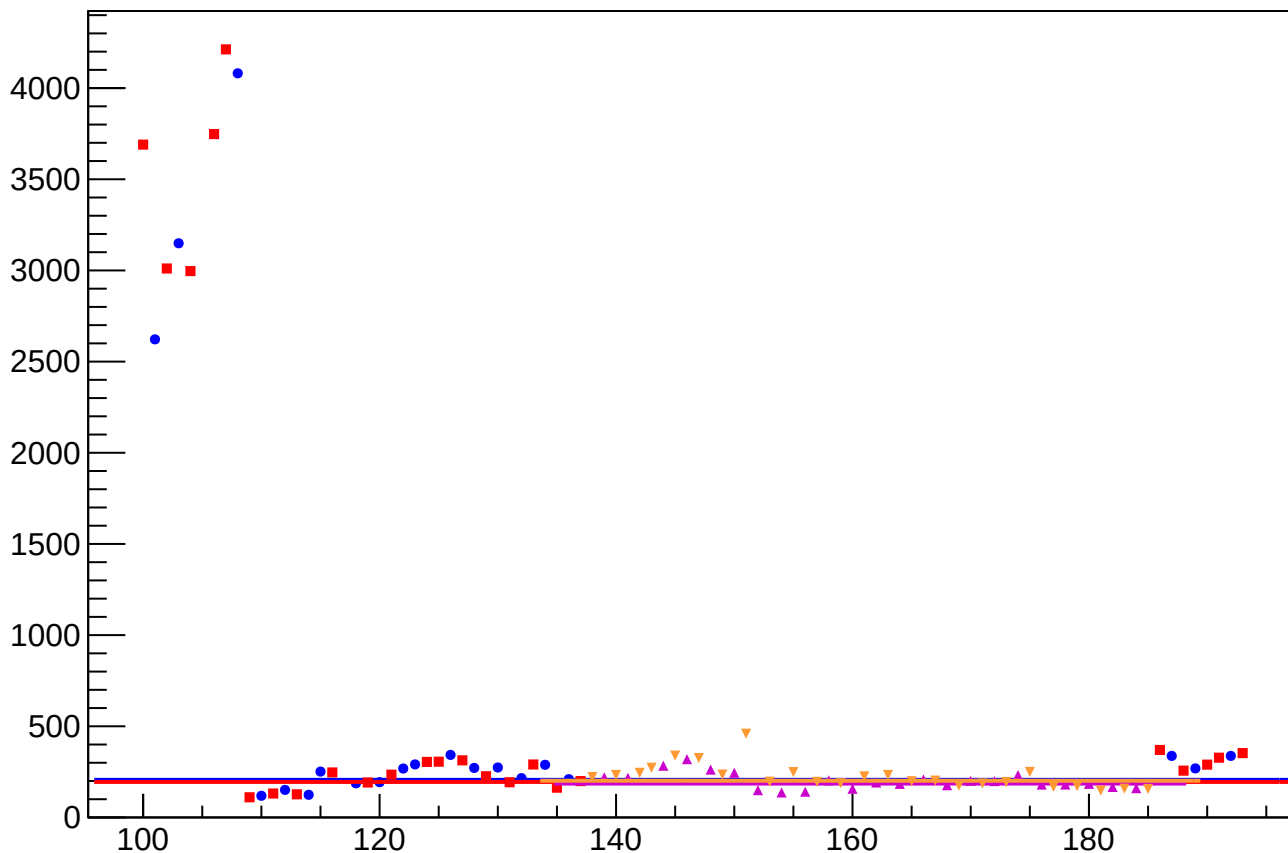
Right: 17.536+/-55.811 χ^2/NDF : 30.6/43

In: 35.378+/-40.628 χ^2/NDF : 24.0/42

Out: -11.876+/-40.857 χ^2/NDF : 22.3/48

All: 11.883+/-28.809 χ^2/NDF : 47.0/91

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.233+/-0.059 χ^2/NDF : 3951193.5/19

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 194.853+/-0.053 χ^2/NDF : 4992511.3/23

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

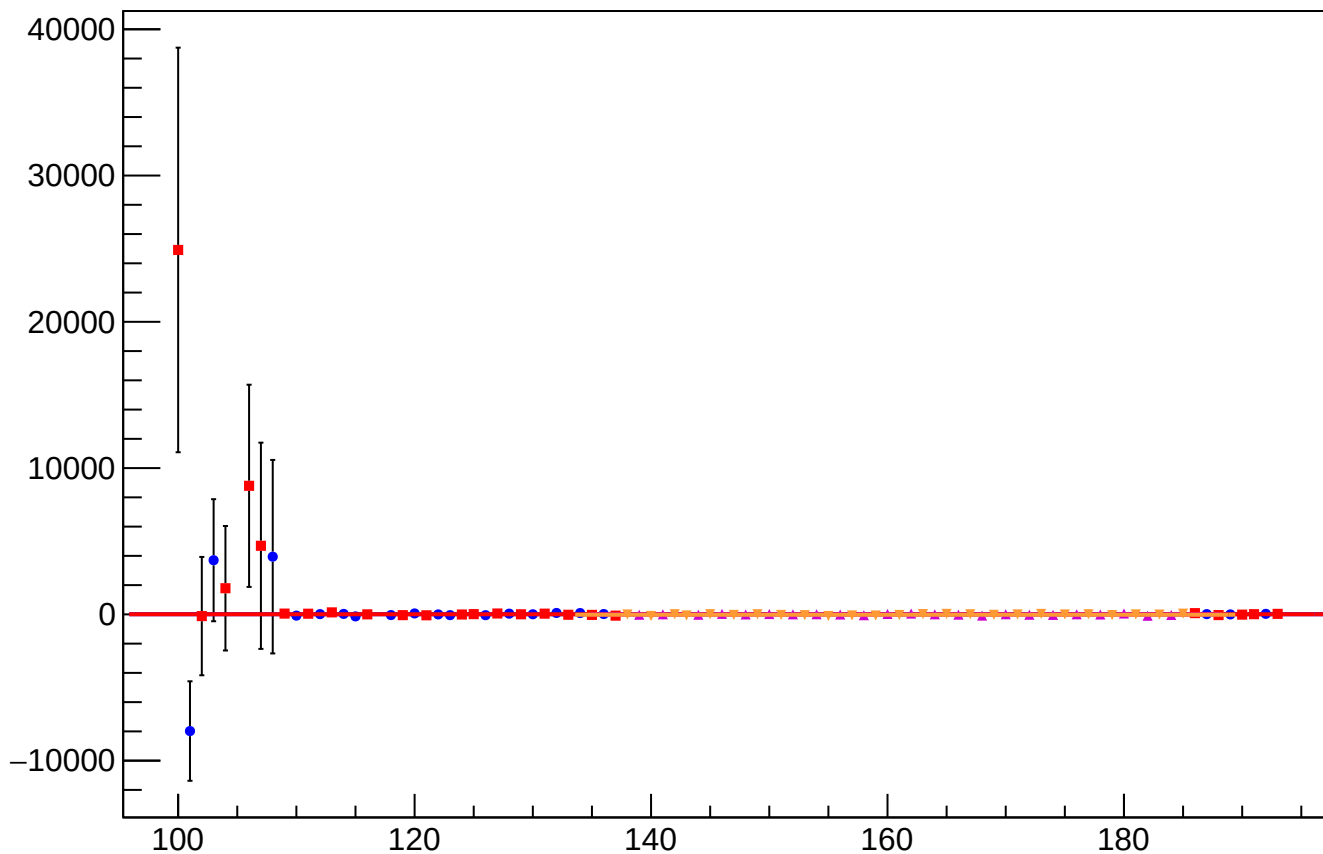
Right: 199.922+/-0.039 χ^2/NDF : 8964247.3/43

In: 190.683+/-0.029 χ^2/NDF : 5422593.5/42

Out: 199.526+/-0.029 χ^2/NDF : 6858484.7/48

All: 195.080+/-0.020 χ^2/NDF : 12328191.6/92

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.852+/-13.057 χ^2/NDF : 20.8/19

Left Out: -24.144+/-8.076 χ^2/NDF :24.9/24

Right Out: 8.917+/-12.243 χ^2/NDF : 25.9/23

Left In: -5.924+/-8.340 χ^2/NDF :21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

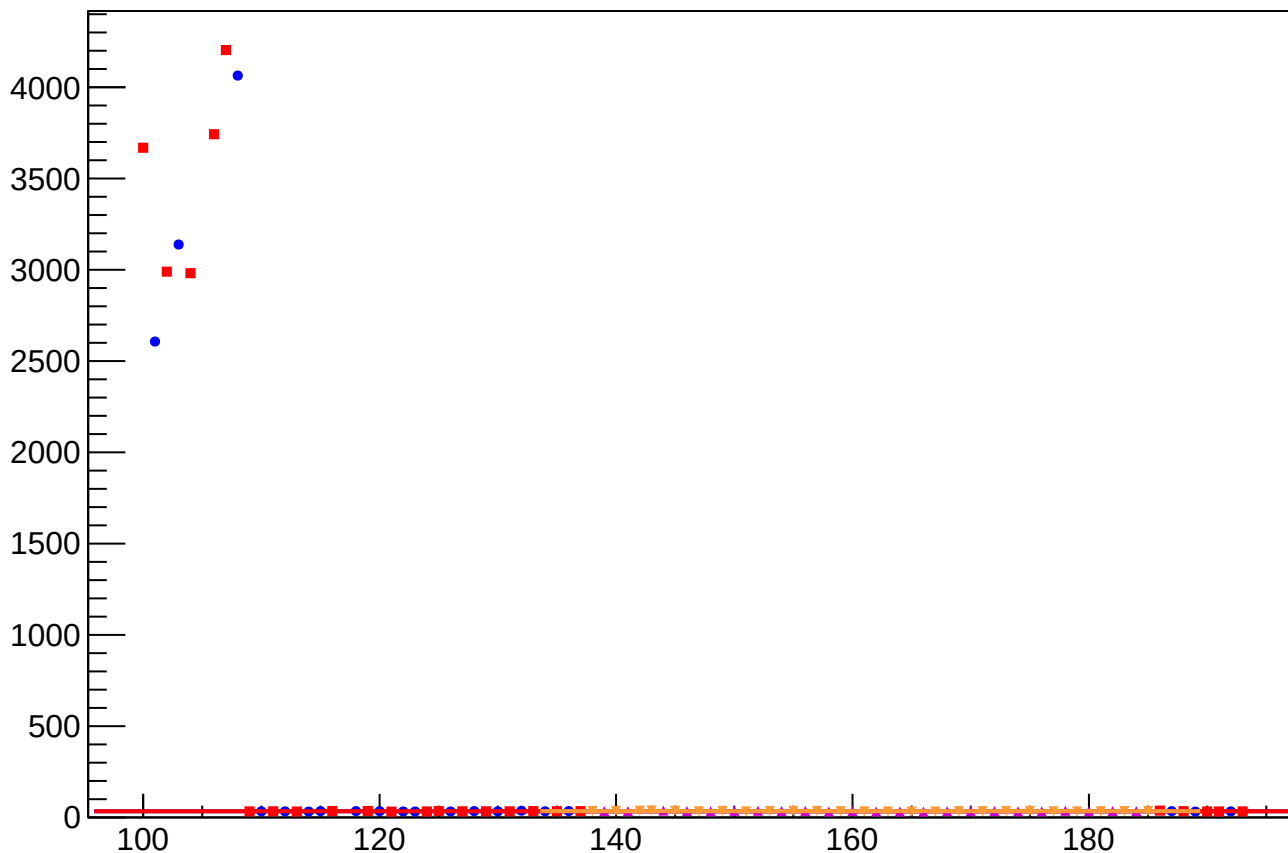
Right: 9.354+/-8.931 χ^2/NDF : 46.7/43

In: -1.352+/-7.028 χ^2/NDF :42.8/42

Out: -14.120+/-6.742 χ^2/NDF :55.9/48

All: -8.002+/-4.865 χ^2/NDF : 100.4/91

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.888 $\pm$ 0.009 χ^2 /NDF: 3010321.1/19

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.967 $\pm$ 0.009 χ^2 /NDF: 3460507.5/23

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

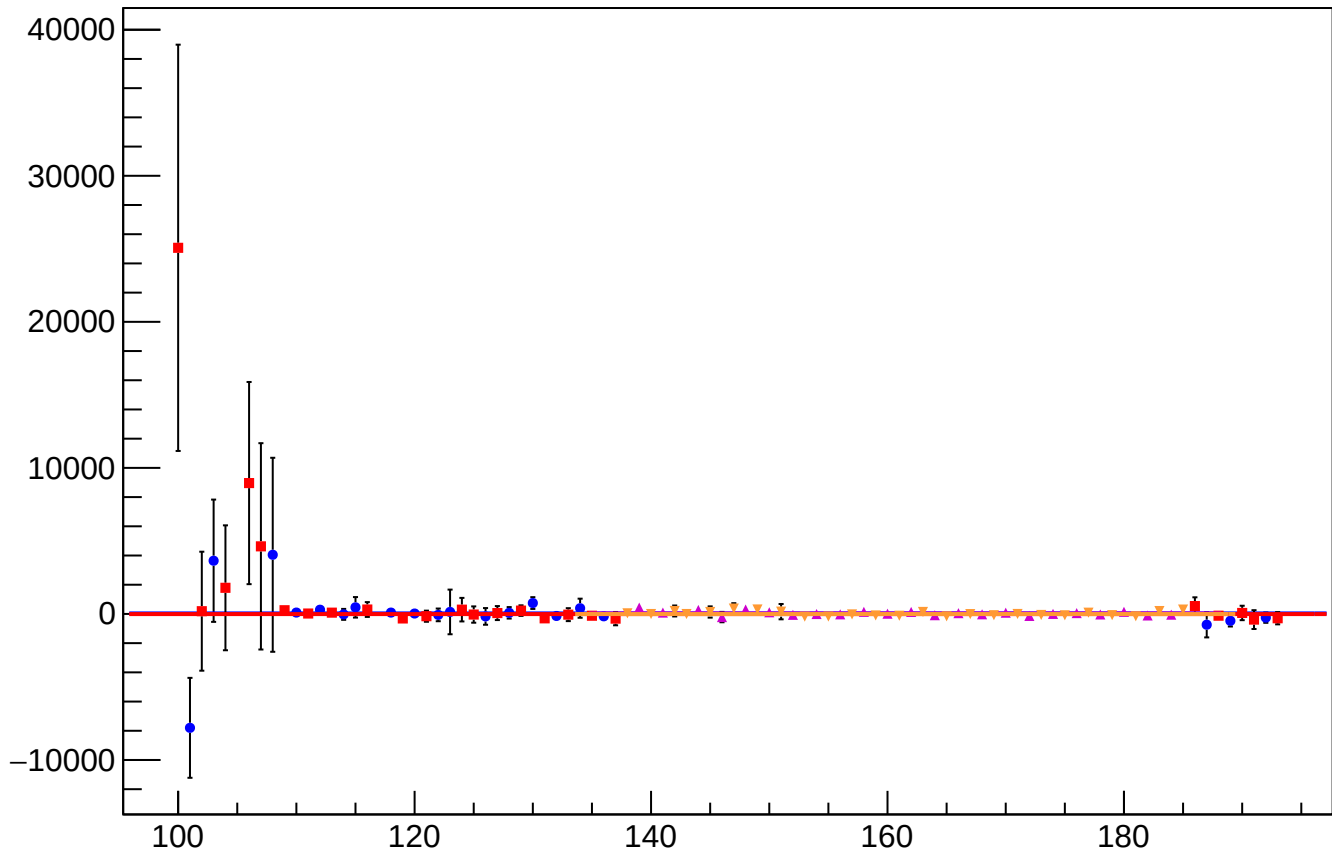
Right: 33.930 $\pm$ 0.006 χ^2 /NDF: 6470867.3/43

In: 34.452 $\pm$ 0.005 χ^2 /NDF: 3075403.2/42

Out: 34.420 $\pm$ 0.005 χ^2 /NDF: 3522310.2/48

All: 34.435 $\pm$ 0.003 χ^2 /NDF: 6597734.3/91

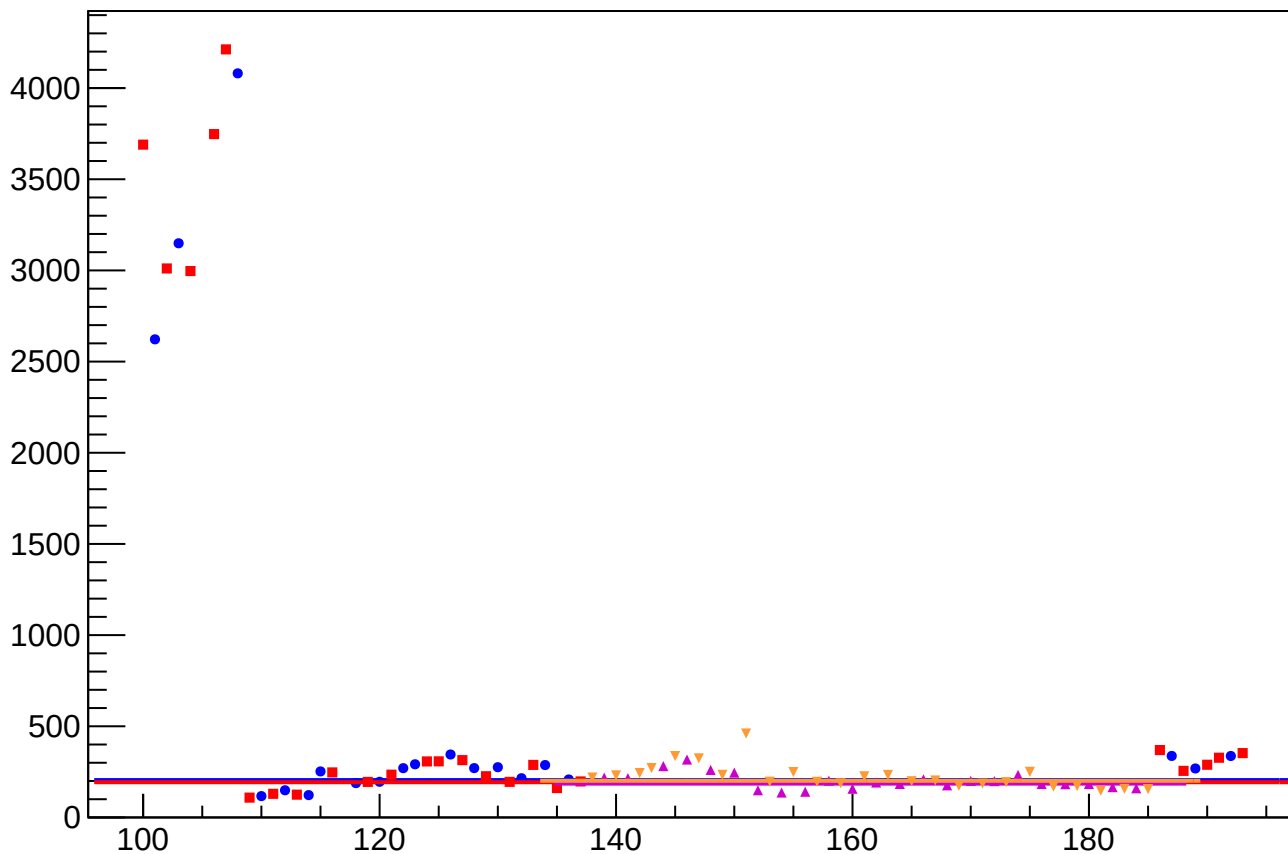
asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 34.859+/-83.243 χ^2/NDF : 16.0/19
 Left Out: -7.558+/-48.662 χ^2/NDF : 8.8/24
 Right Out: -10.647+/-74.512 χ^2/NDF : 13.0/23
 Left In: 34.977+/-46.421 χ^2/NDF : 7.1/22

Left: 14.712+/-33.589 χ^2/NDF : 16.3/47
 Right: 9.595+/-55.519 χ^2/NDF : 29.1/43
 In: 34.949+/-40.543 χ^2/NDF : 23.1/42
 Out: -8.481+/-40.743 χ^2/NDF : 21.7/48
 All: 13.341+/-28.739 χ^2/NDF : 45.4/91

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.944 $\pm$ 0.059 χ^2 /NDF: 3995371.9/19

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 193.284 $\pm$ 0.053 χ^2 /NDF: 5053408.9/23

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

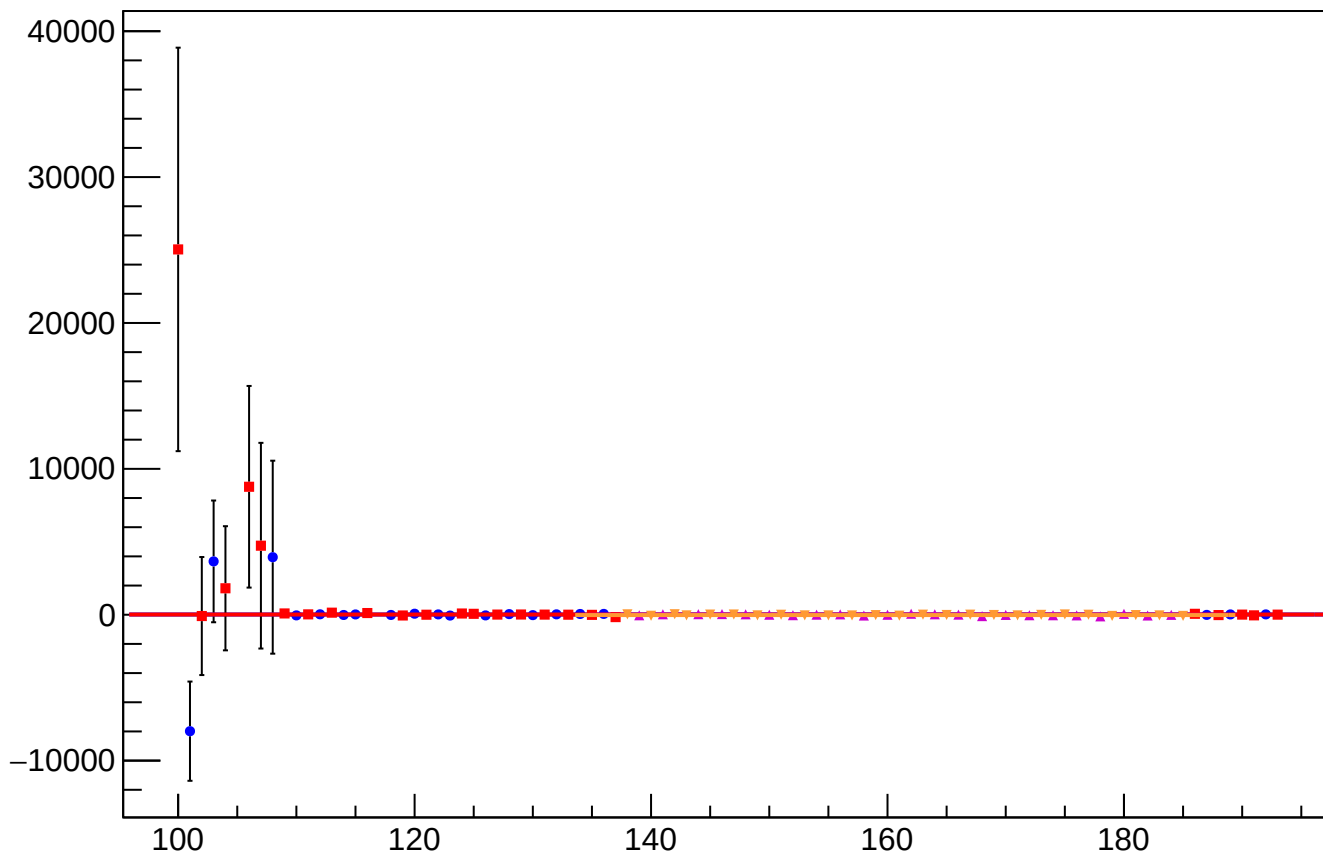
Right: 198.471 $\pm$ 0.039 χ^2 /NDF: 9070567.8/43

In: 190.210 $\pm$ 0.029 χ^2 /NDF:5448936.0/42

Out: 198.832 $\pm$ 0.029 χ^2 /NDF:6917663.5/48

All: 194.500 $\pm$ 0.020 χ^2 /NDF: 12411607.5/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 15.576 $\pm$ 11.845 χ^2 /NDF: 15.0/19

Left Out: -23.320 $\pm$ 7.352 χ^2 /NDF:18.3/24

Right Out: 14.351 $\pm$ 11.126 χ^2 /NDF: 30.9/23

Left In: -6.386 $\pm$ 7.577 χ^2 /NDF:38.7/22

Left: -15.108 $\pm$ 5.276 χ^2 /NDF: 59.6/47

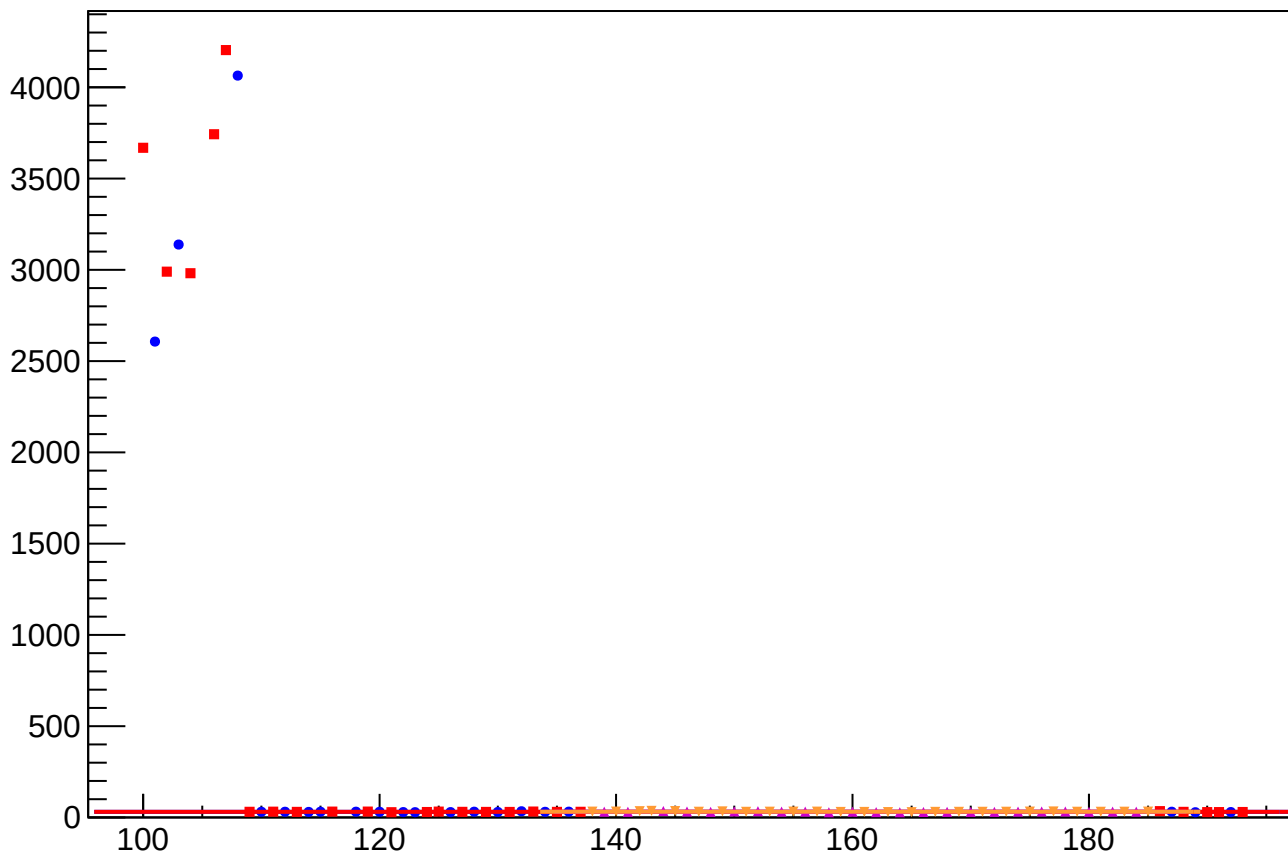
Right: 14.926 $\pm$ 8.110 χ^2 /NDF: 45.8/43

In: -0.009 $\pm$ 6.383 χ^2 /NDF:56.1/42

Out: -11.871 $\pm$ 6.134 χ^2 /NDF:57.2/48

All: -6.176 $\pm$ 4.423 χ^2 /NDF: 115.1/91

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.734+/-0.008 χ^2/NDF : 3023840.0/19

Left Out: 31.488+/-0.005 χ^2/NDF : 81938.2/24

Right Out: 30.834+/-0.008 χ^2/NDF : 3472797.9/23

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

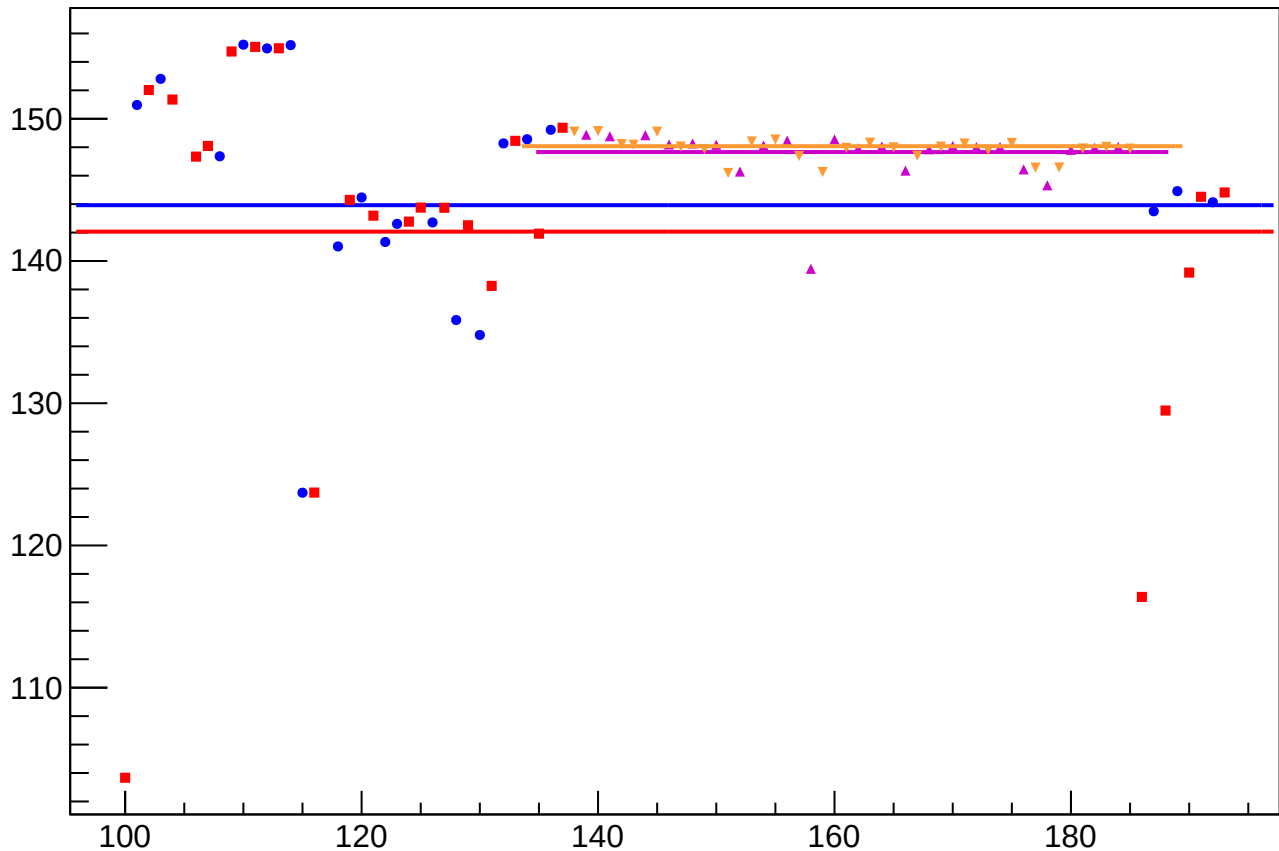
Right: 30.787+/-0.006 χ^2/NDF : 6496713.8/43

In: 31.260+/-0.005 χ^2/NDF : 3117193.2/42

Out: 31.290+/-0.004 χ^2/NDF : 3559546.3/48

All: 31.276+/-0.003 χ^2/NDF : 6676761.7/91

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.925+/-0.000 χ^2/NDF : 3451946133.2/19

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.065+/-0.000 χ^2/NDF : 7259741524.0/23

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

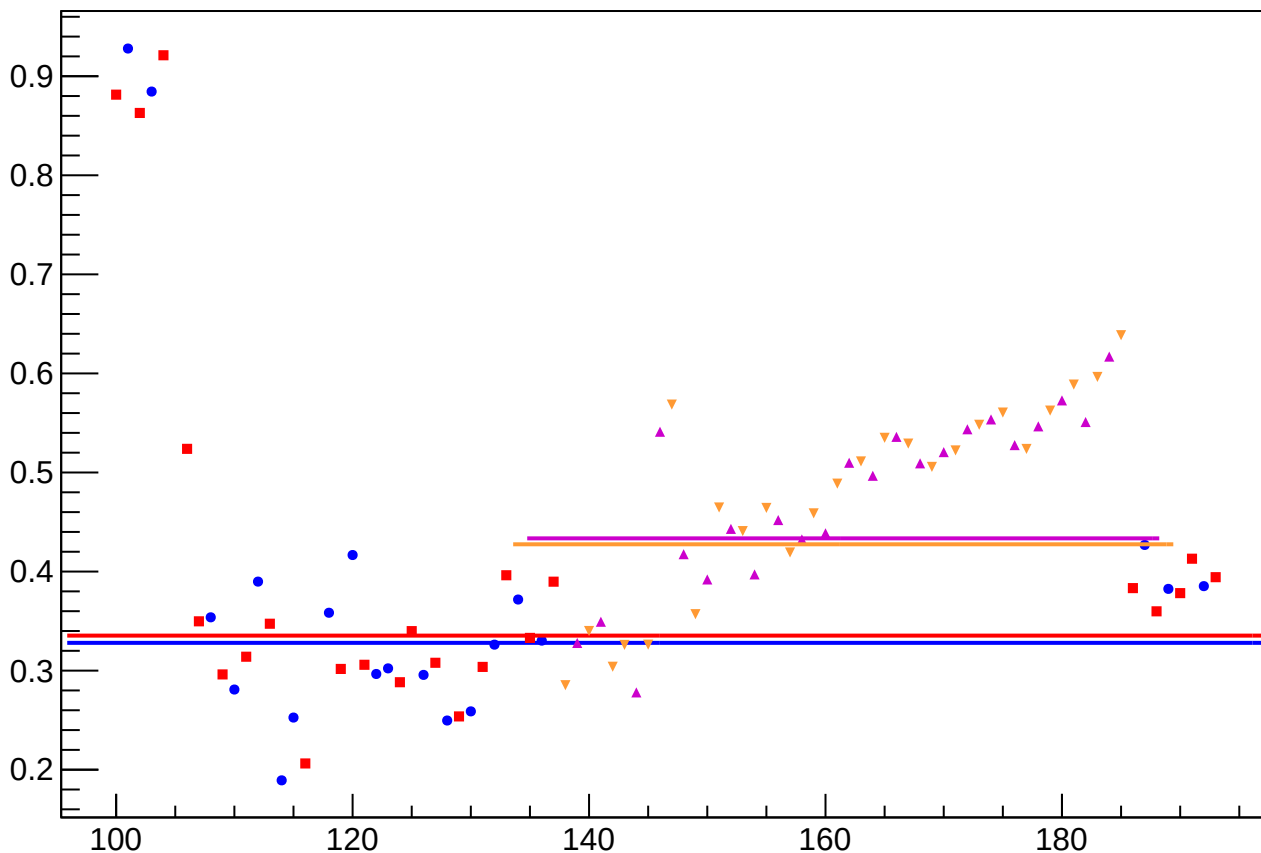
Right: 142.936+/-0.000 χ^2/NDF : 10831210561.9/43

In: 146.050+/-0.000 χ^2/NDF : 4312351764.7/42

Out: 145.409+/-0.000 χ^2/NDF : 8808057520.8/48

All: 145.714+/-0.000 χ^2/NDF : 13152901472.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.328+/-0.000 χ^2/NDF : 1357928.1/19

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.335+/-0.000 χ^2/NDF : 1312907.6/23

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

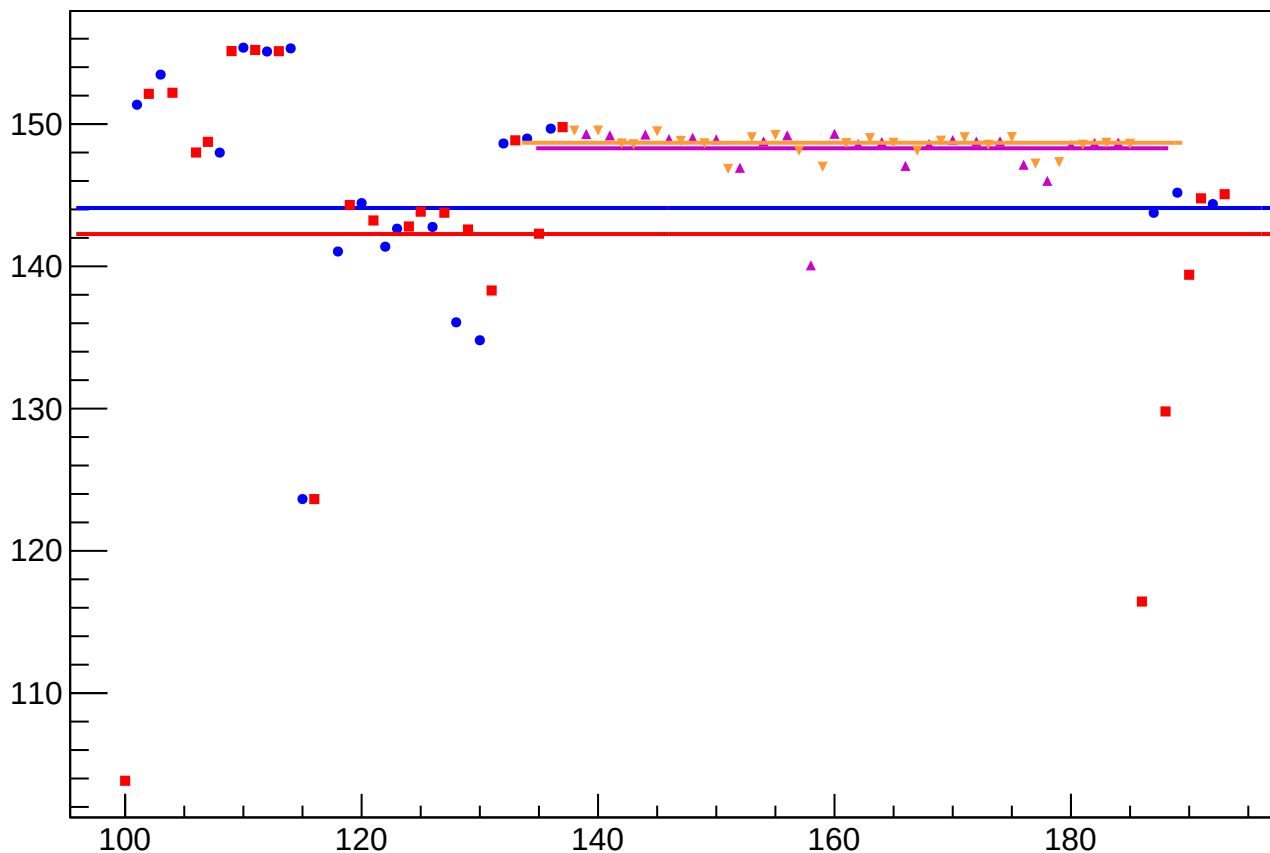
Right: 0.332+/-0.000 χ^2/NDF : 2674528.7/43

In: 0.388+/-0.000 χ^2/NDF :3660646.2/42

Out: 0.387+/-0.000 χ^2/NDF :3903484.7/48

All: 0.387+/-0.000 χ^2/NDF : 7564441.0/91

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.101 $\pm$ 0.000 χ^2 /NDF: 3496638734.2/19

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.271 $\pm$ 0.000 χ^2 /NDF: 7203771053.1/23

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

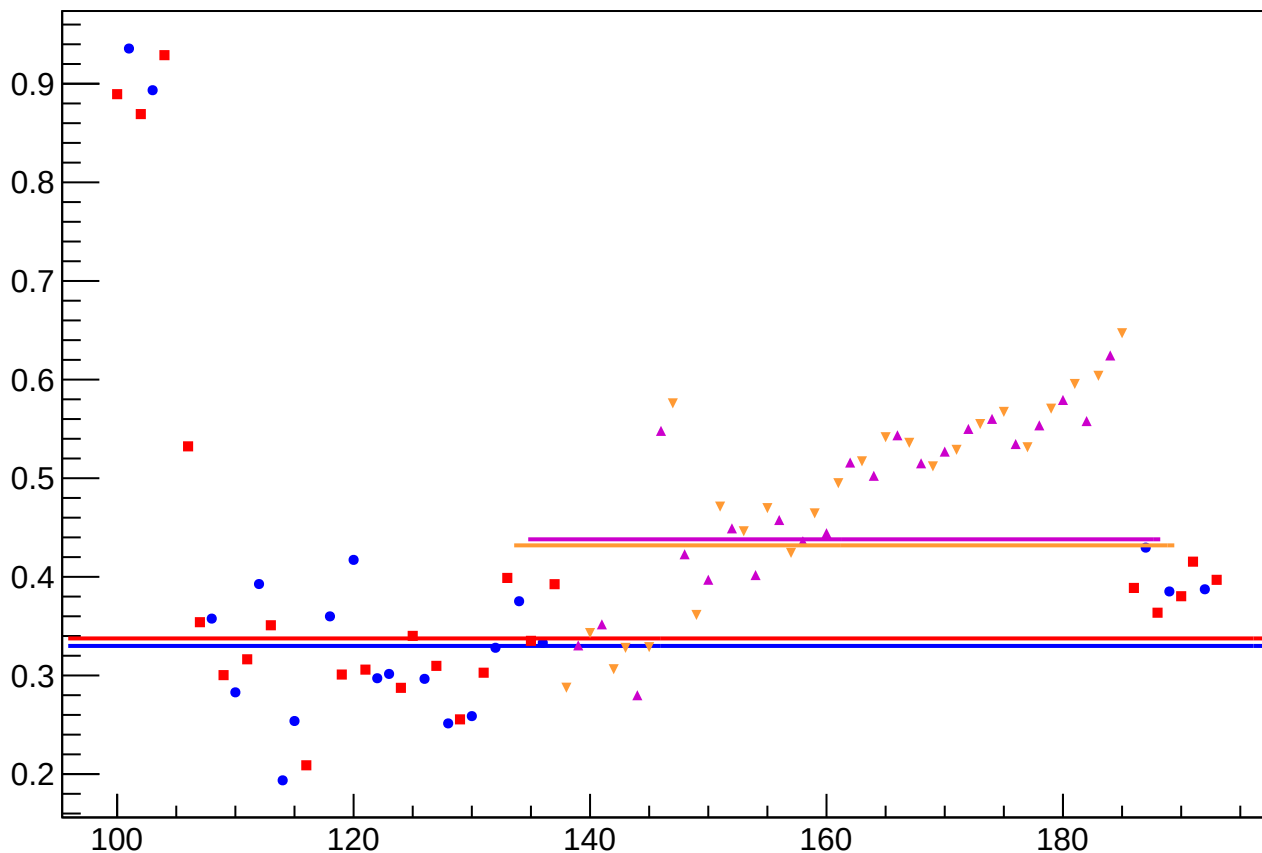
Right: 143.129 $\pm$ 0.000 χ^2 /NDF: 10814750245.8/43

In: 146.478 $\pm$ 0.000 χ^2 /NDF: 4470779636.4/42

Out: 145.829 $\pm$ 0.000 χ^2 /NDF: 8918249916.8/48

All: 146.138 $\pm$ 0.000 χ^2 /NDF: 13421803135.1/92

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2 /NDF: 1359691.0/19

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.338 $\pm$ 0.000 χ^2 /NDF: 1317772.7/23

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3432903.3/47

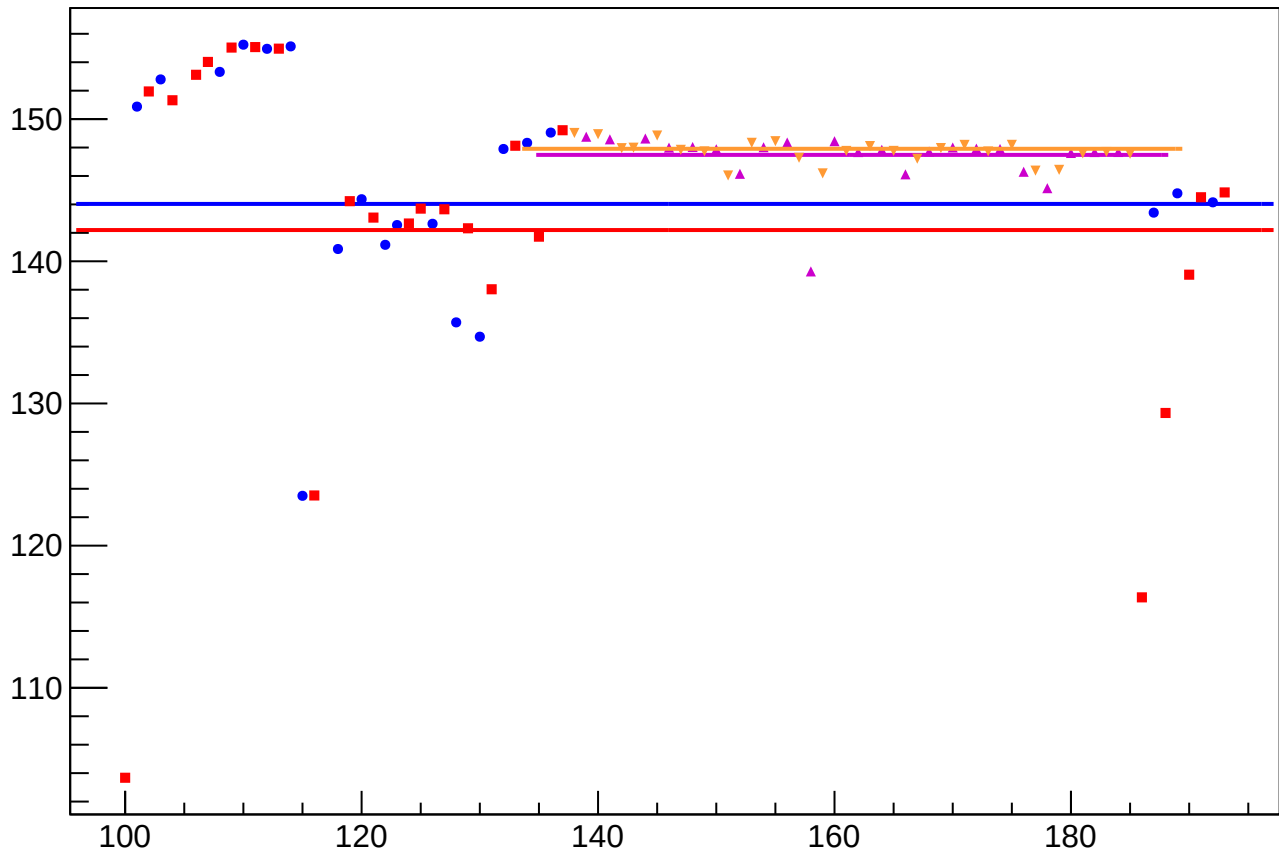
Right: 0.334 $\pm$ 0.000 χ^2 /NDF: 2681423.1/43

In: 0.391 $\pm$ 0.000 χ^2 /NDF:3715783.3/42

Out: 0.390 $\pm$ 0.000 χ^2 /NDF:3961716.2/48

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 7677762.5/91

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.034 $\pm$ 0.000 χ^2 /NDF: 3663911746.4/19

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.197 $\pm$ 0.000 χ^2 /NDF: 7652932760.7/23

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

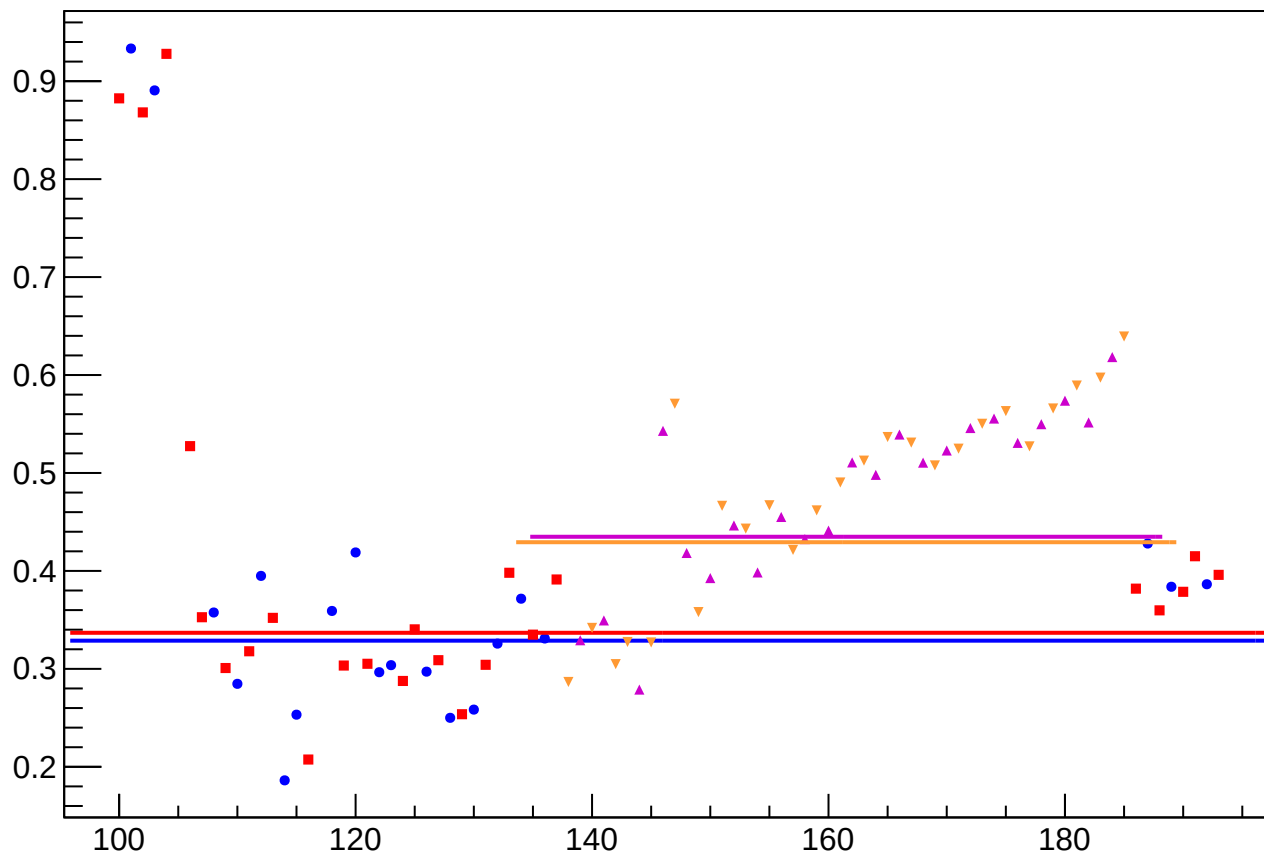
Right: 143.059 $\pm$ 0.000 χ^2 /NDF: 11432701747.8/43

In: 145.996 $\pm$ 0.000 χ^2 /NDF: 4444123467.2/42

Out: 145.378 $\pm$ 0.000 χ^2 /NDF: 9047273868.6/48

All: 145.673 $\pm$ 0.000 χ^2 /NDF: 13521403399.

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2 /NDF: 1373310.0/19

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.337 $\pm$ 0.000 χ^2 /NDF: 1314188.4/23

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

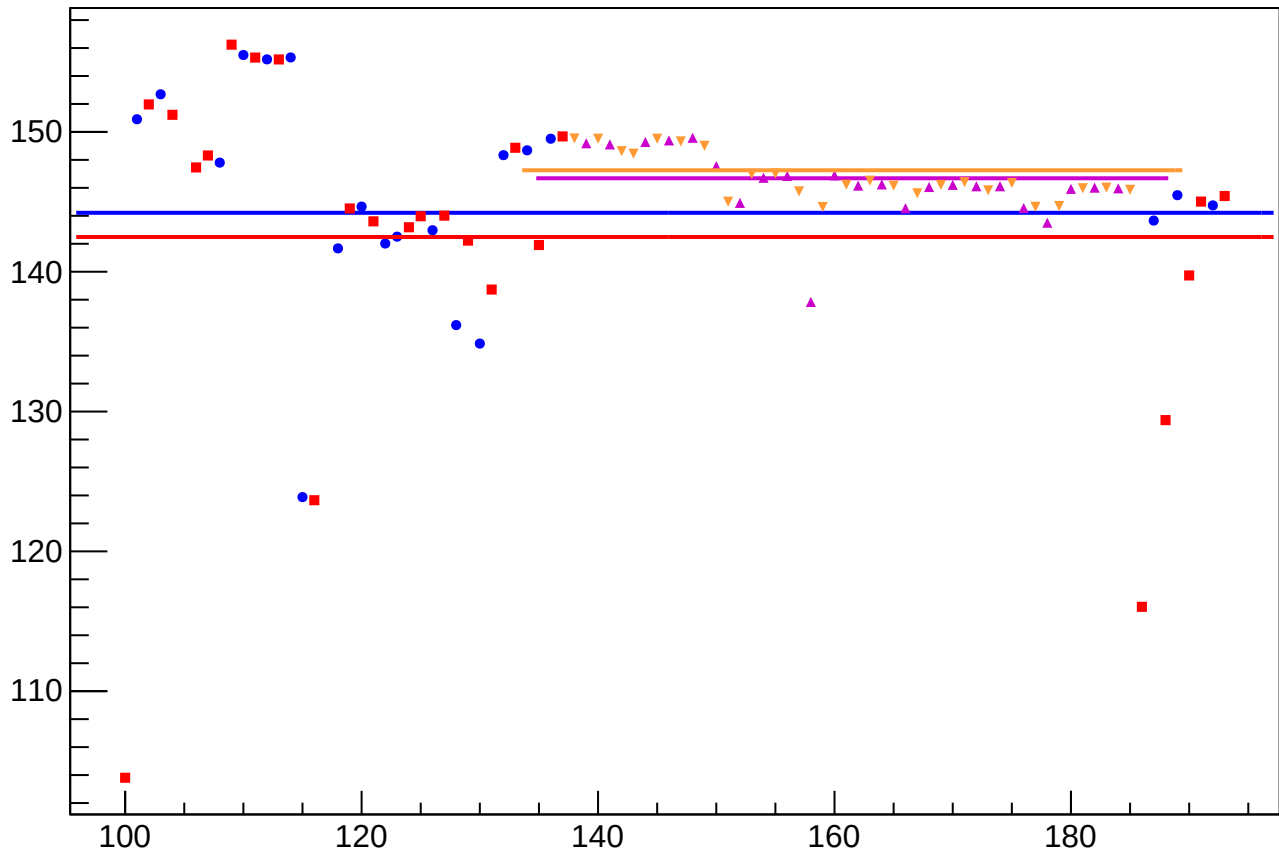
Right: 0.333 $\pm$ 0.000 χ^2 /NDF: 2691939.8/43

In: 0.389 $\pm$ 0.000 χ^2 /NDF:3687086.4/42

Out: 0.388 $\pm$ 0.000 χ^2 /NDF:3902191.4/48

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7589386.1/91

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.216+/-0.000 χ^2/NDF : 3166865632.1/19

Left Out: 147.257+/-0.000 χ^2/NDF : 261906278.3/24

Right Out: 142.485+/-0.000 χ^2/NDF : 6957543163.0/23

Left In: 146.685+/-0.000 χ^2/NDF : 554922388.0/22

Left: 146.981+/-0.000 χ^2/NDF : 830580031.2/47

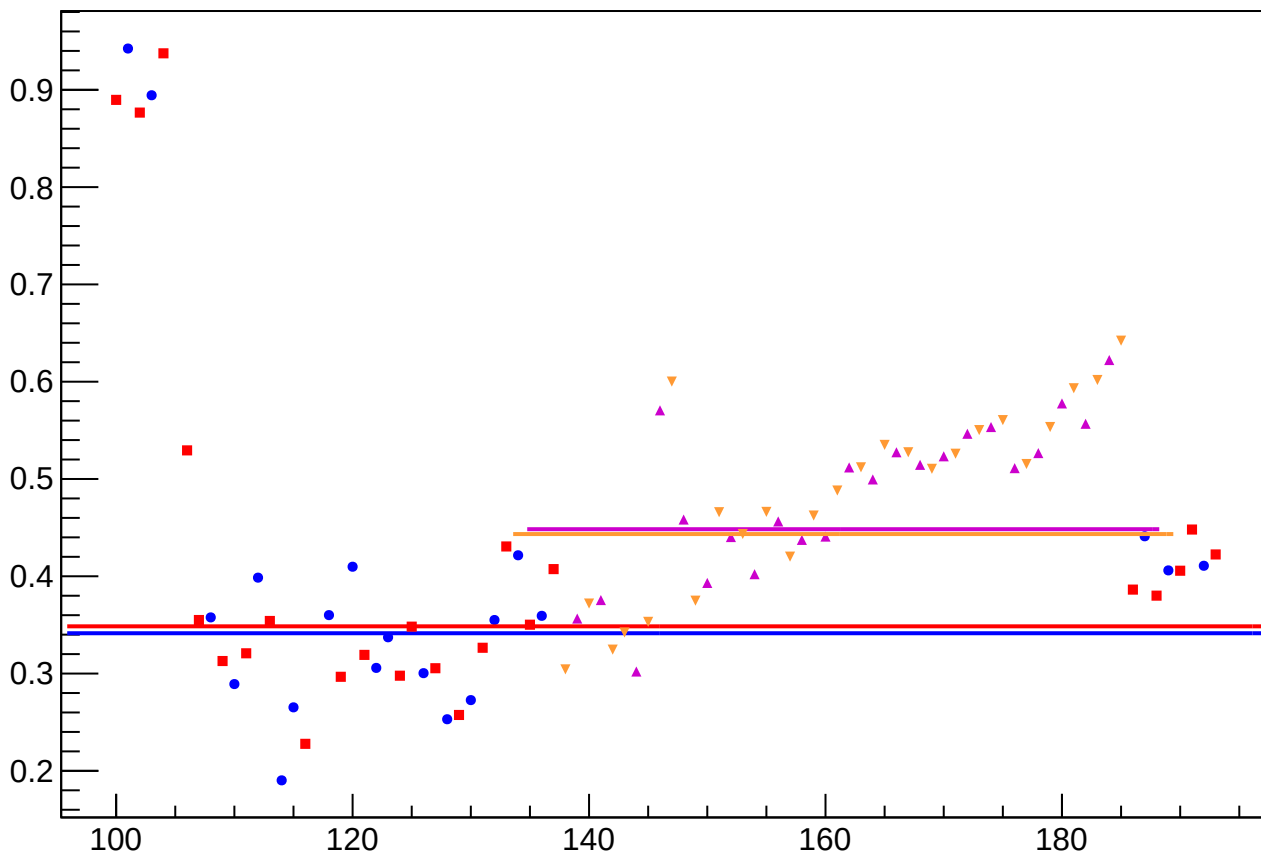
Right: 143.294+/-0.000 χ^2/NDF : 10219673965.1/43

In: 145.638+/-0.000 χ^2/NDF : 3931302668.1/42

Out: 145.162+/-0.000 χ^2/NDF : 8088634820.3/48

All: 145.389+/-0.000 χ^2/NDF : 12036638735.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.341 $\pm$ 0.000 χ^2/NDF : 1371714.7/19

Left Out: 0.443 $\pm$ 0.000 χ^2/NDF :1480479.3/24

Right Out: 0.349 $\pm$ 0.000 χ^2/NDF : 1302844.5/23

Left In: 0.448 $\pm$ 0.000 χ^2/NDF :1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2/NDF : 2602838.0/47

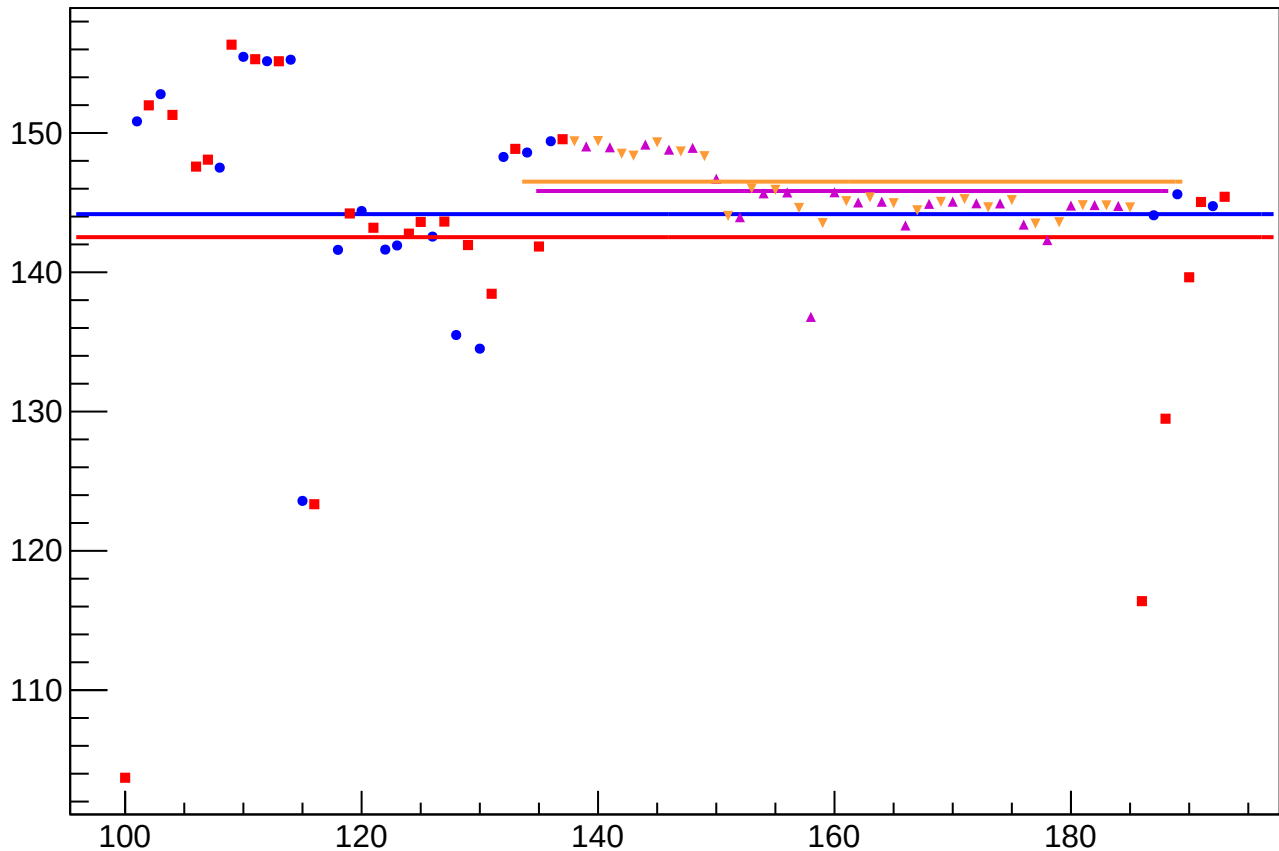
Right: 0.345 $\pm$ 0.000 χ^2/NDF : 2677766.4/43

In: 0.403 $\pm$ 0.000 χ^2/NDF :3278209.2/42

Out: 0.402 $\pm$ 0.000 χ^2/NDF :3469812.0/48

All: 0.402 $\pm$ 0.000 χ^2/NDF : 6748267.1/91

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.175 +/- 0.000 χ^2/NDF : 3287176167.2/19

Left Out: 146.508 +/- 0.000 χ^2/NDF : 401248837.9/24

Right Out: 142.521 +/- 0.000 χ^2/NDF : 6937209629.7/23

Left In: 145.834 +/- 0.000 χ^2/NDF : 690172810.0/22

Left: 146.184 +/- 0.000 χ^2/NDF : 1110403123.5/47

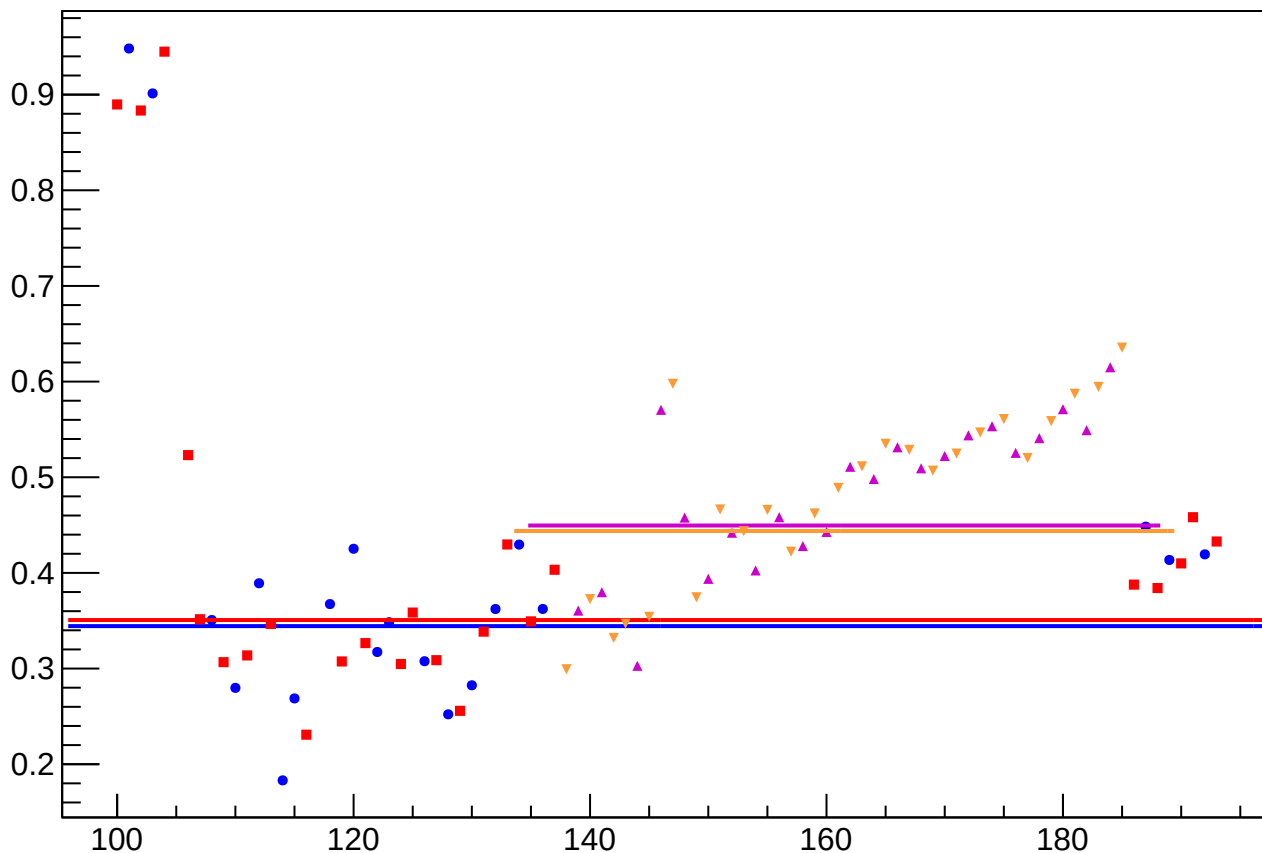
Right: 143.291 +/- 0.000 χ^2/NDF : 10309658232.7/43

In: 145.137 +/- 0.000 χ^2/NDF : 4070643464.7/42

Out: 144.771 +/- 0.000 χ^2/NDF : 7939220181.2/48

All: 144.945 +/- 0.000 χ^2/NDF : 12019661306.0

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.344+/-0.000 χ^2/NDF : 1399154.1/19

Left Out: 0.444+/-0.000 χ^2/NDF :1460383.7/24

Right Out: 0.351+/-0.000 χ^2/NDF : 1305645.0/23

Left In: 0.450+/-0.000 χ^2/NDF :1092776.5/22

Left: 0.447+/-0.000 χ^2/NDF : 2555905.8/47

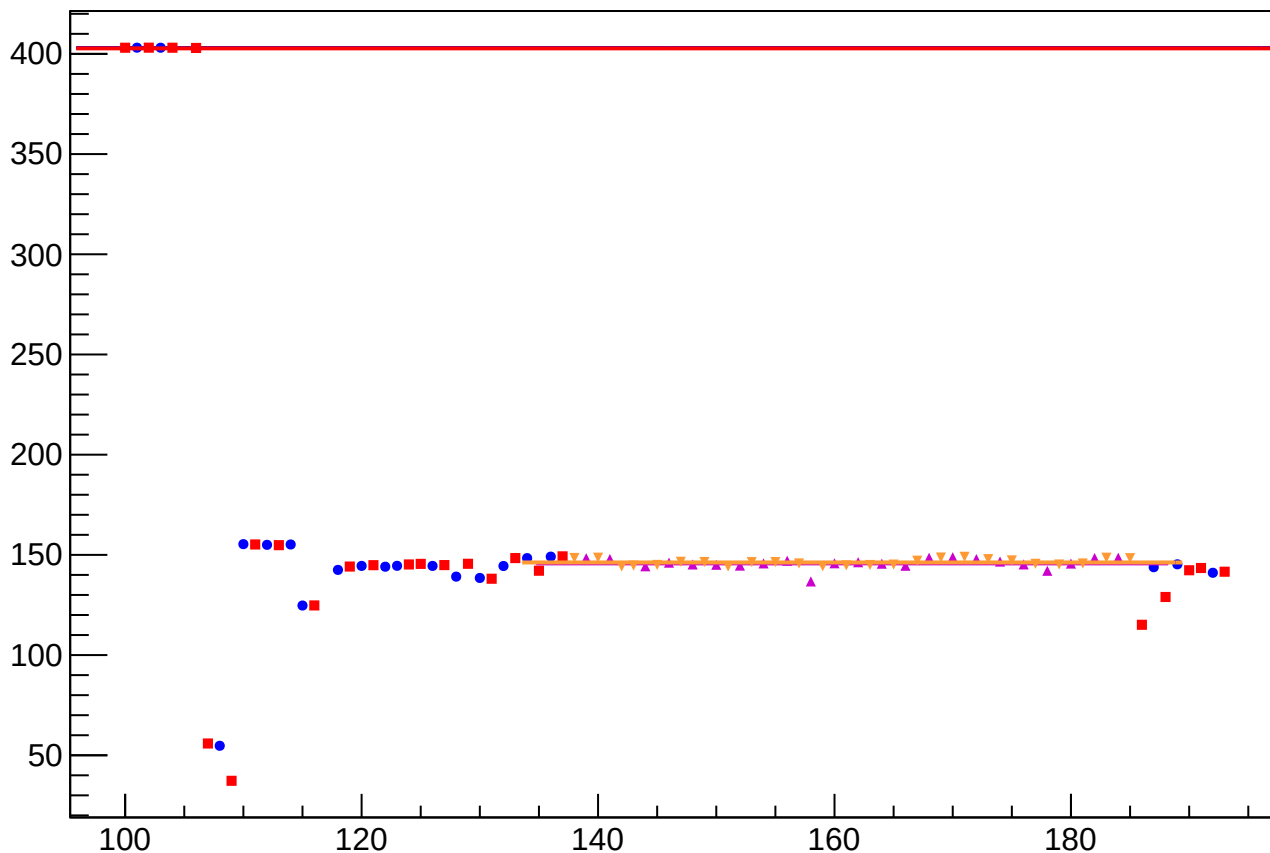
Right: 0.348+/-0.000 χ^2/NDF : 2707308.5/43

In: 0.405+/-0.000 χ^2/NDF :3241076.1/42

Out: 0.403+/-0.000 χ^2/NDF :3421067.8/48

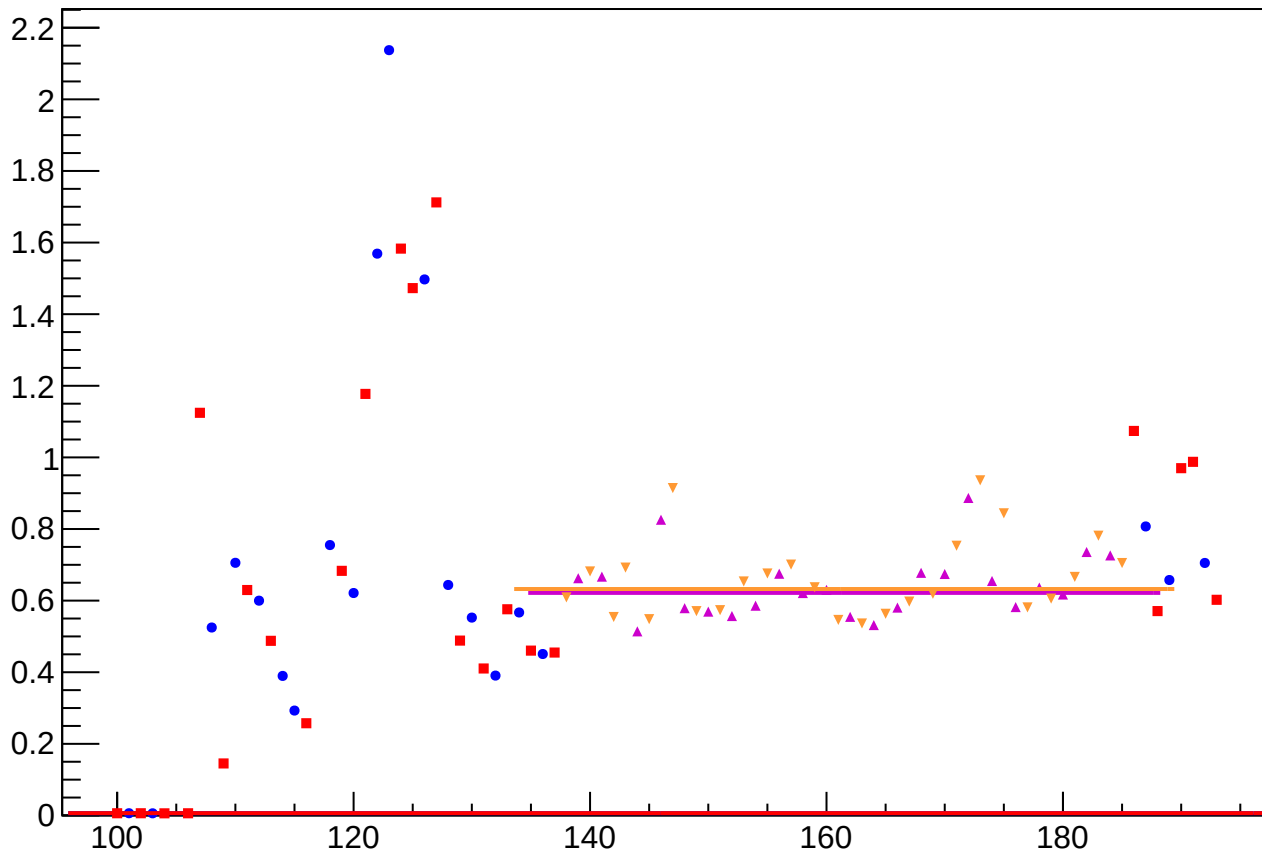
All: 0.404+/-0.000 χ^2/NDF : 6662805.1/91

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.937+/-0.000	χ^2/NDF : 1258827959158.7/19	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.844+/-0.000	χ^2/NDF : 4711718425613.7
Right Out: 402.762+/-0.000	χ^2/NDF : 3452381359443.7/23	In: 402.646+/-0.000	χ^2/NDF : 3590735042900.1/42
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.501+/-0.000	χ^2/NDF : 5810398753610.1/4
		All: 402.569+/-0.000	χ^2/NDF : 940148206603

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 11399425.5/19

Left Out: 0.632+/-0.000 χ^2/NDF : 613604.5/24

Right Out: 0.006+/-0.000 χ^2/NDF : 13385376.7/23

Left In: 0.622+/-0.000 χ^2/NDF : 399965.3/22

Left: 0.627+/-0.000 χ^2/NDF : 1017722.4/47

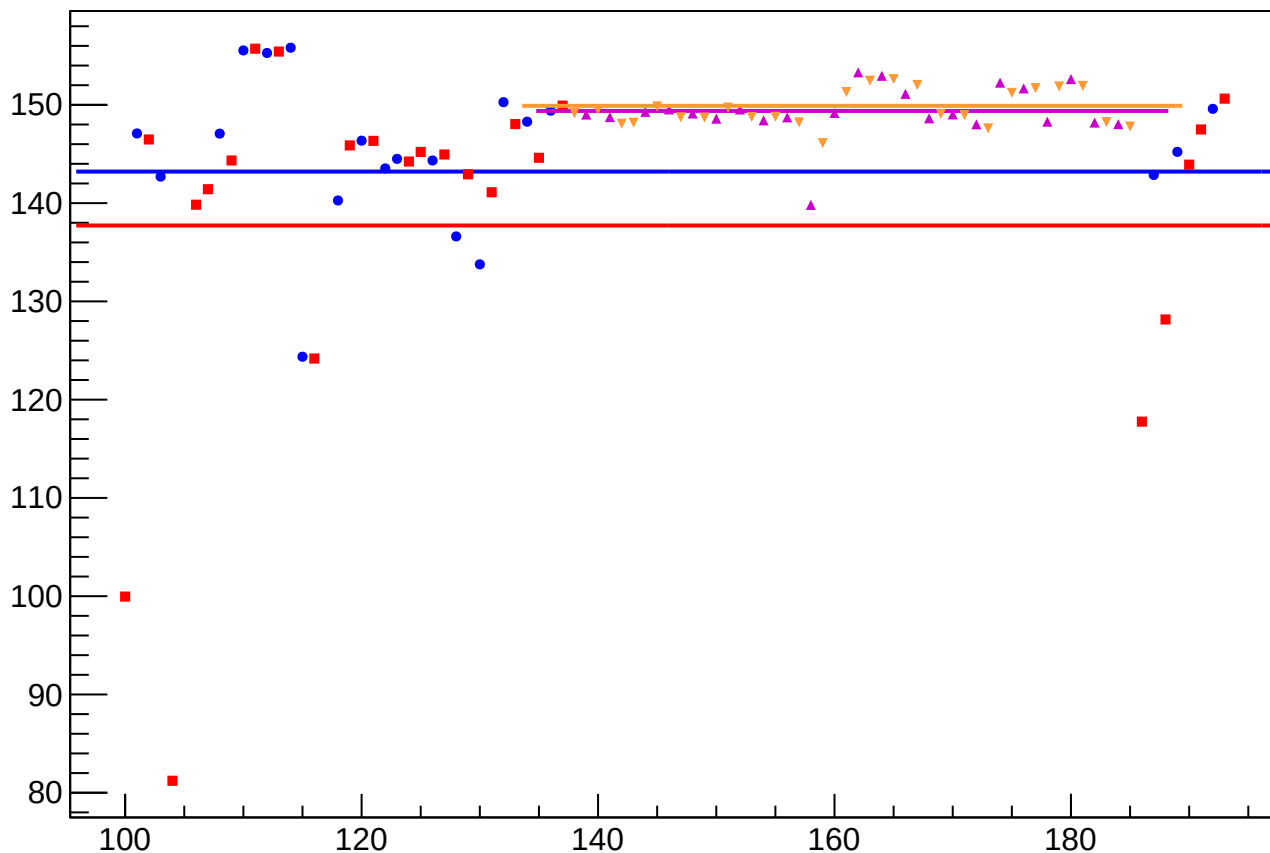
Right: 0.006+/-0.000 χ^2/NDF : 24784820.9/43

In: 0.007+/-0.000 χ^2/NDF : 38484642.6/42

Out: 0.007+/-0.000 χ^2/NDF : 42077234.6/48

All: 0.007+/-0.000 χ^2/NDF : 80561921.3/91

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 143.211 $\pm$ 0.000

χ^2 /NDF: 1094348803.5/19

Left Out: 149.900 $\pm$ 0.000

χ^2 /NDF: 162845622.6/24

Right Out: 137.724 $\pm$ 0.000

χ^2 /NDF: 2432649884.9/23

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: 140.060 $\pm$ 0.000

χ^2 /NDF: 3762619727.2/43

In: 148.001 $\pm$ 0.000

χ^2 /NDF: 1931920467.6/42

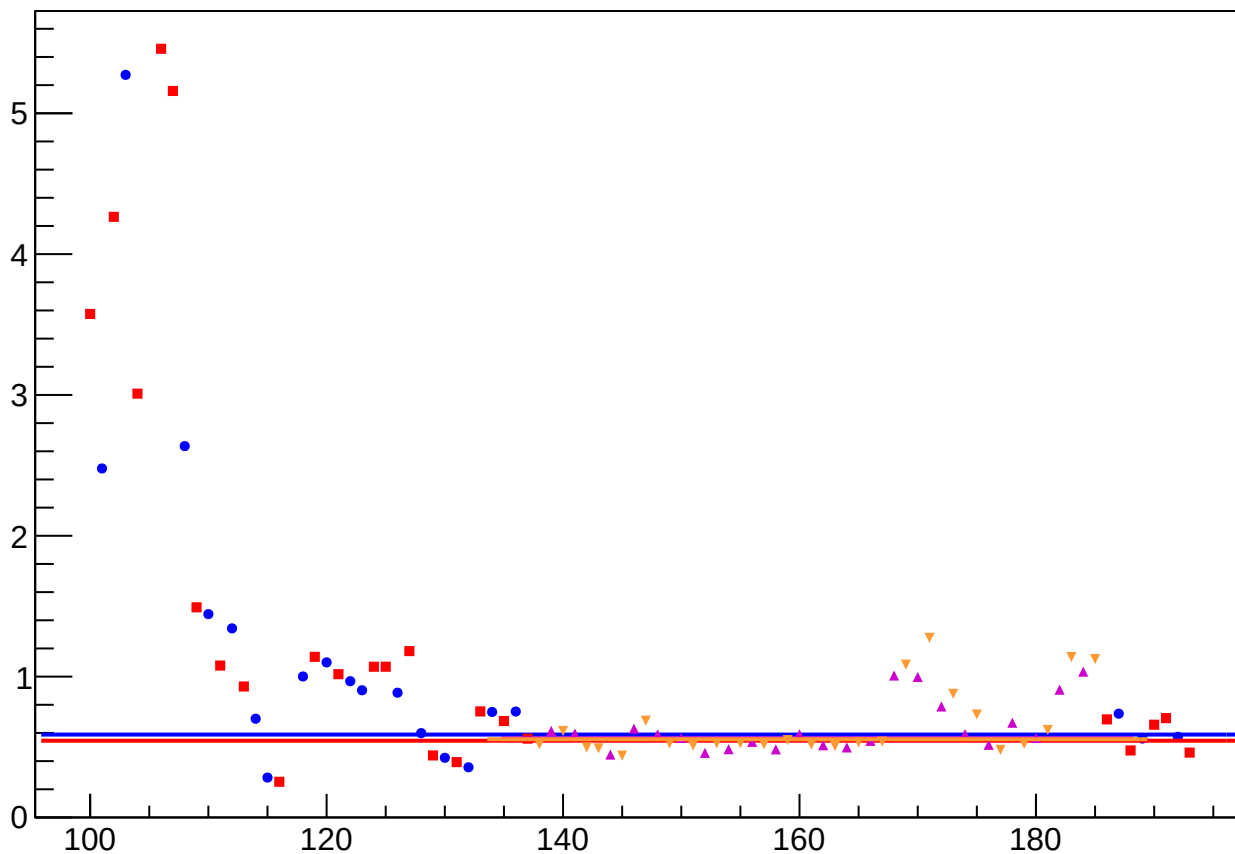
Out: 146.662 $\pm$ 0.000

χ^2 /NDF: 4596013506.6/48

All: 147.289 $\pm$ 0.000

χ^2 /NDF: 6585964486.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.588 $\pm$ 0.000 χ^2 /NDF: 3532105.5/19

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.545 $\pm$ 0.000 χ^2 /NDF: 4795583.3/23

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

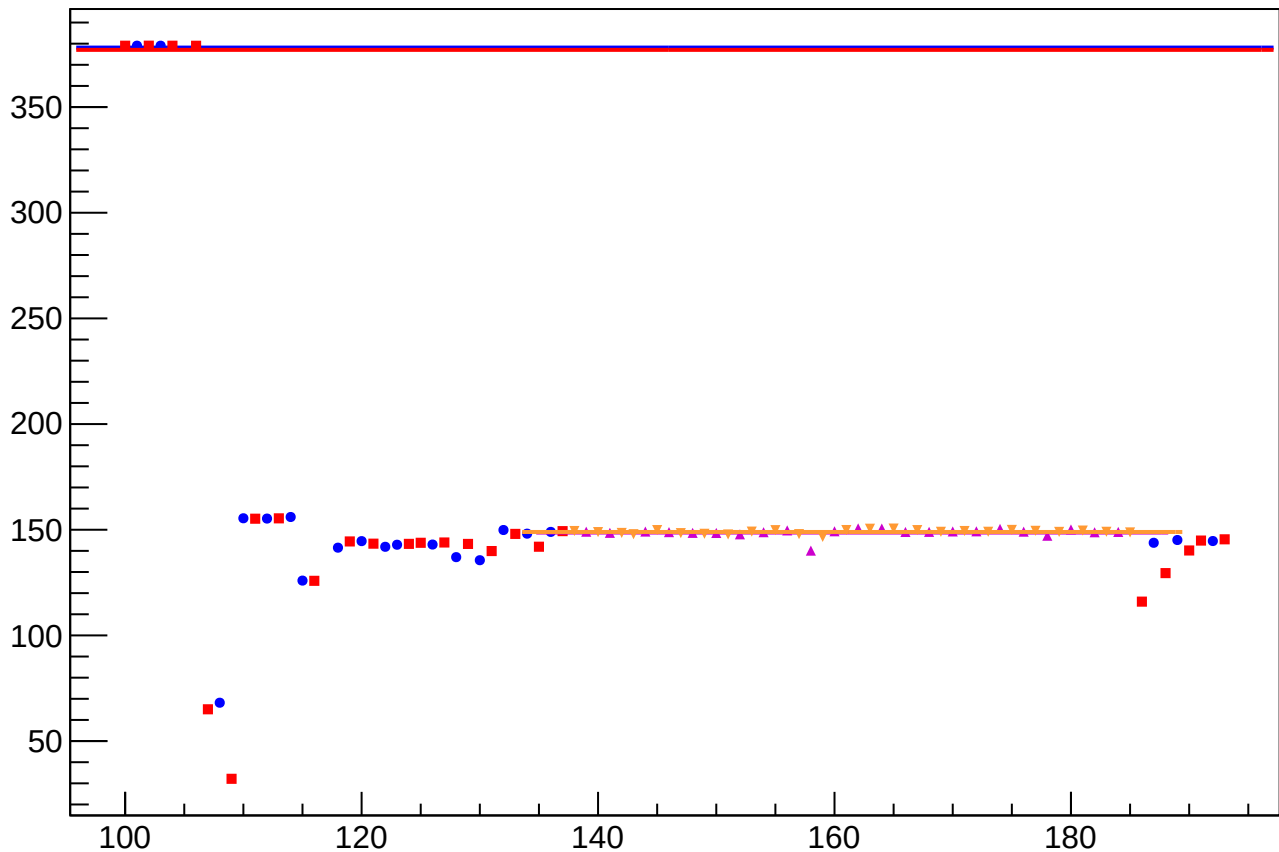
Right: 0.563 $\pm$ 0.000 χ^2 /NDF: 8357457.9/43

In: 0.568 $\pm$ 0.000 χ^2 /NDF:4852793.7/42

Out: 0.553 $\pm$ 0.000 χ^2 /NDF:6572303.2/48

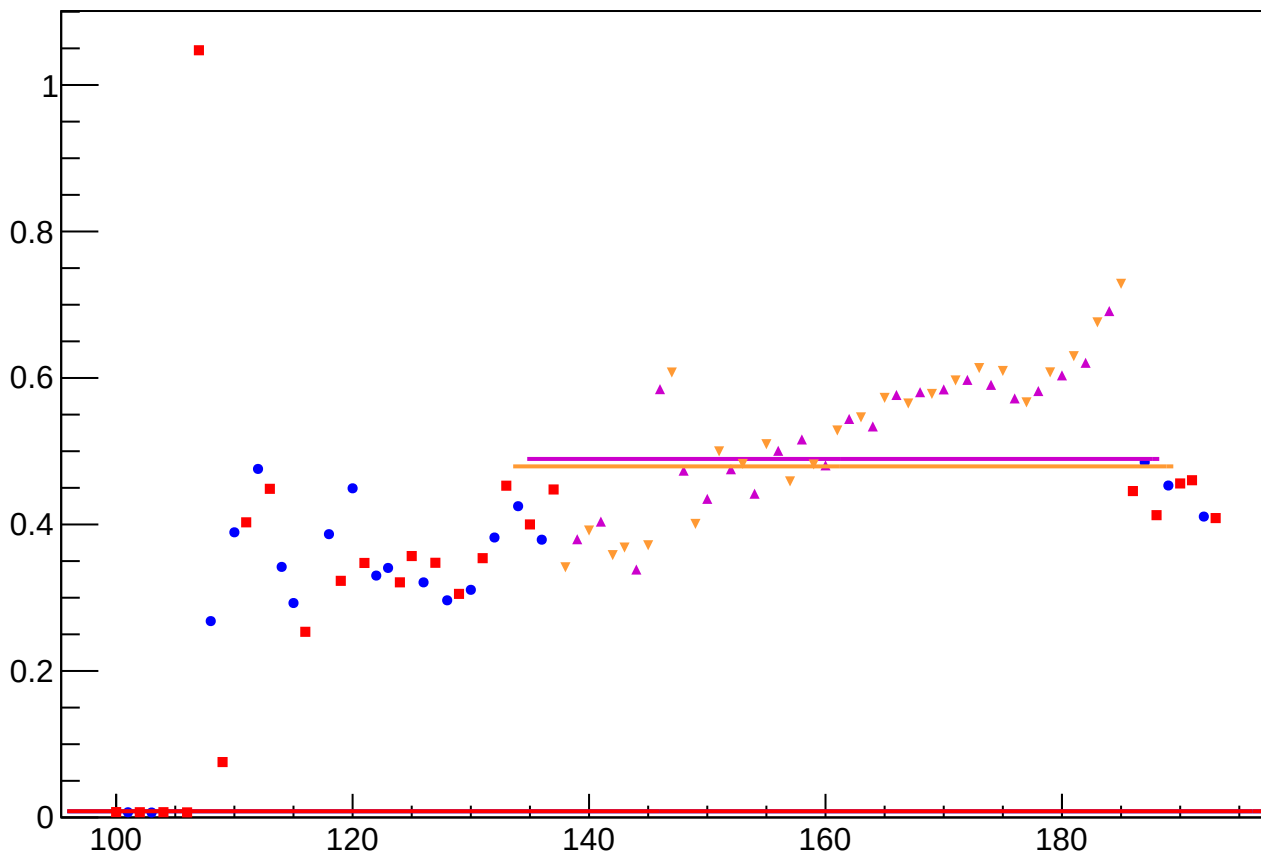
All: 0.560 $\pm$ 0.000 χ^2 /NDF: 11439828.7/91

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.147+/-0.000	χ^2/NDF : 2928619715377.6/19	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.574+/-0.000	χ^2/NDF : 12021862471731.9
Right Out: 377.071+/-0.000	χ^2/NDF : 9085012692960.0/23	In: 376.975+/-0.000	χ^2/NDF : 6512141646925.7/42
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.955+/-0.000	χ^2/NDF : 12953692405200.6
		All: 376.431+/-0.000	χ^2/NDF : 194732671543

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 12668200.5/19

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 14279903.5/23

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

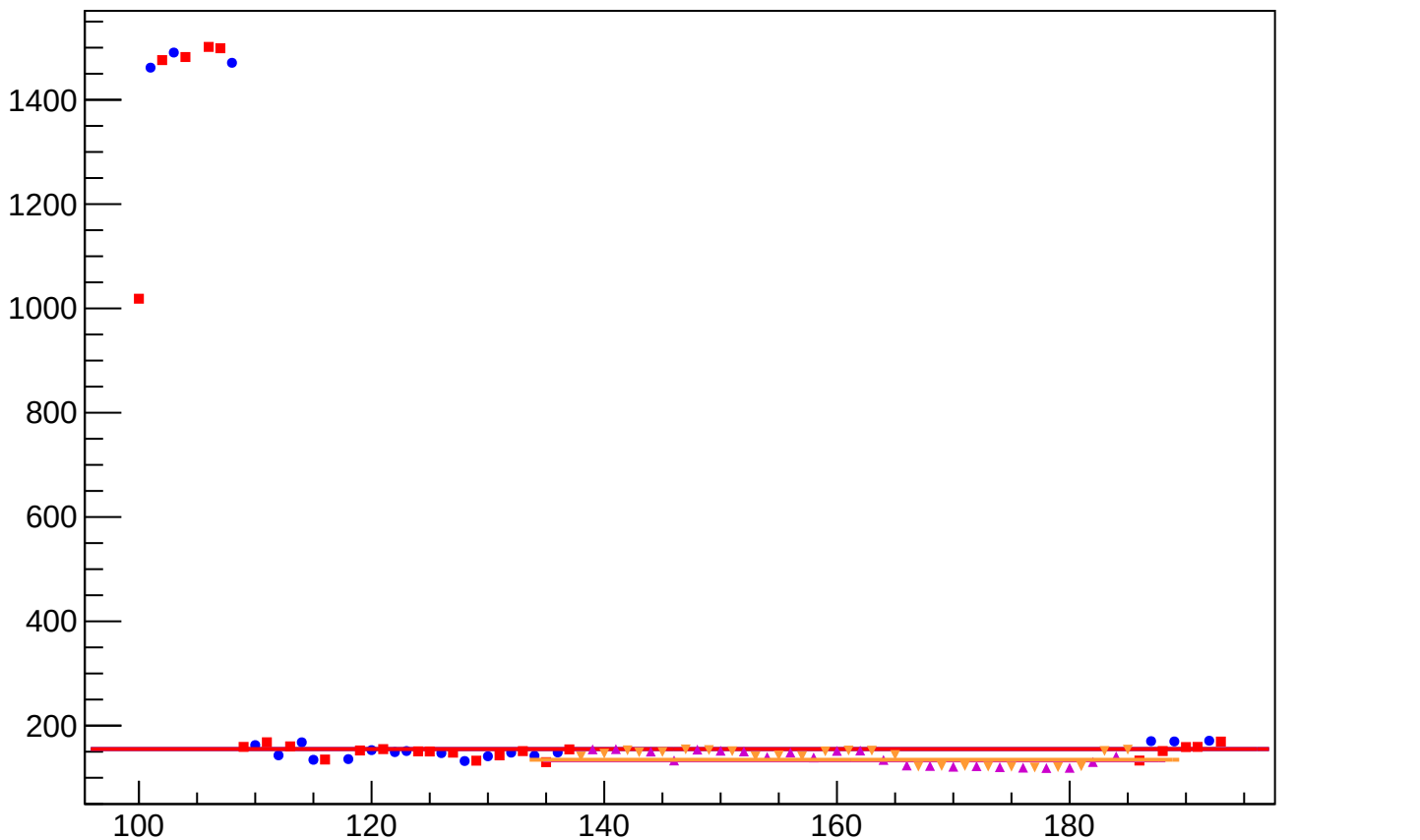
Right: 0.008+/-0.000 χ^2/NDF : 26948417.8/43

In: 0.011+/-0.000 χ^2/NDF :45243459.7/42

Out: 0.011+/-0.000 χ^2/NDF :48748067.8/48

All: 0.011+/-0.000 χ^2/NDF : 93991527.9/91

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.084 $\pm$ 0.000 χ^2 /NDF: 25398585810.8/19

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 155.050 $\pm$ 0.000 χ^2 /NDF: 34349361785.3/23

Left In: 133.337 $\pm$ 0.000 χ^2 /NDF: 4303812119.2/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8697951676.8/47

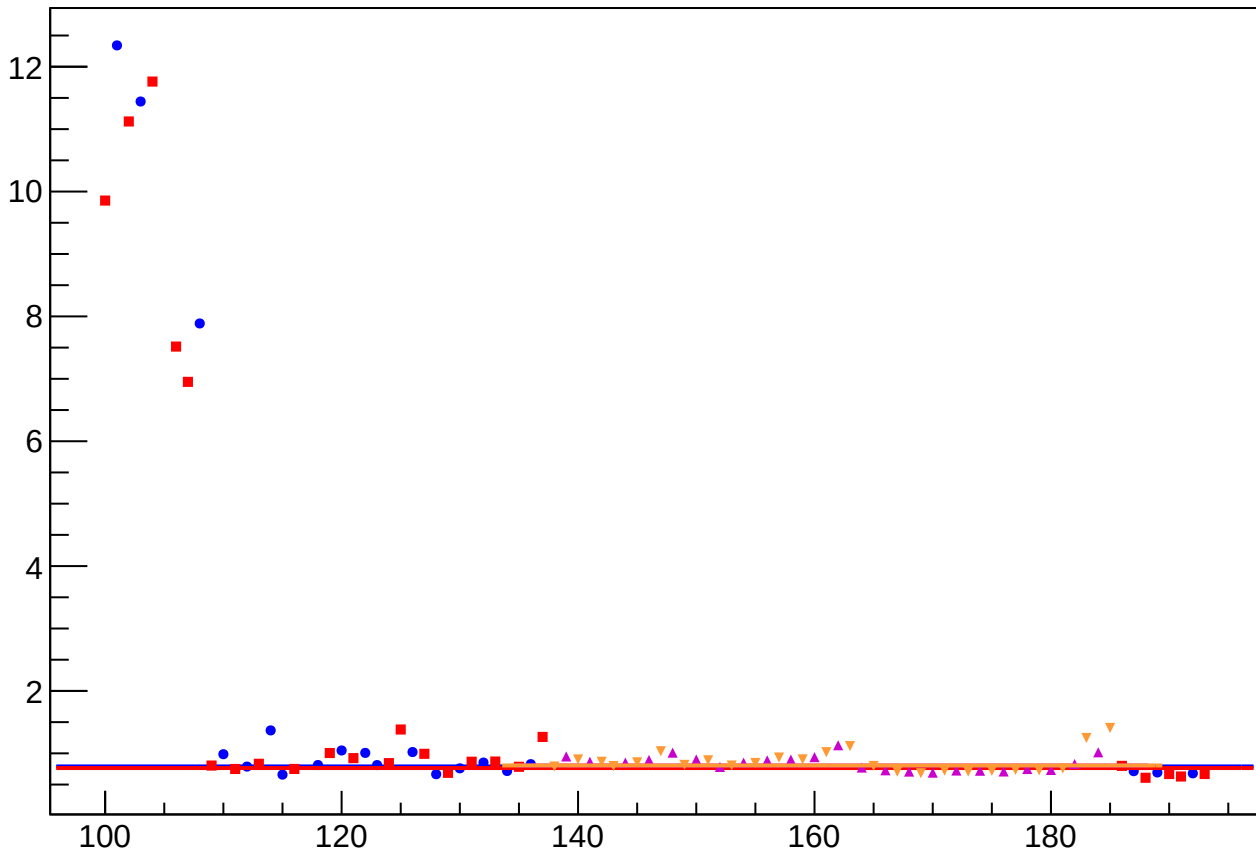
Right: 155.065 $\pm$ 0.000 χ^2 /NDF: 59747952999.1/43

In: 139.091 $\pm$ 0.000 χ^2 /NDF: 32547659595.3/42

Out: 140.848 $\pm$ 0.000 χ^2 /NDF: 41785671221.3/48

All: 140.014 $\pm$ 0.000 χ^2 /NDF: 74383514347.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.790 $\pm$ 0.000 χ^2 /NDF: 2753171.5/19

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.765 $\pm$ 0.000 χ^2 /NDF: 3121001.7/23

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

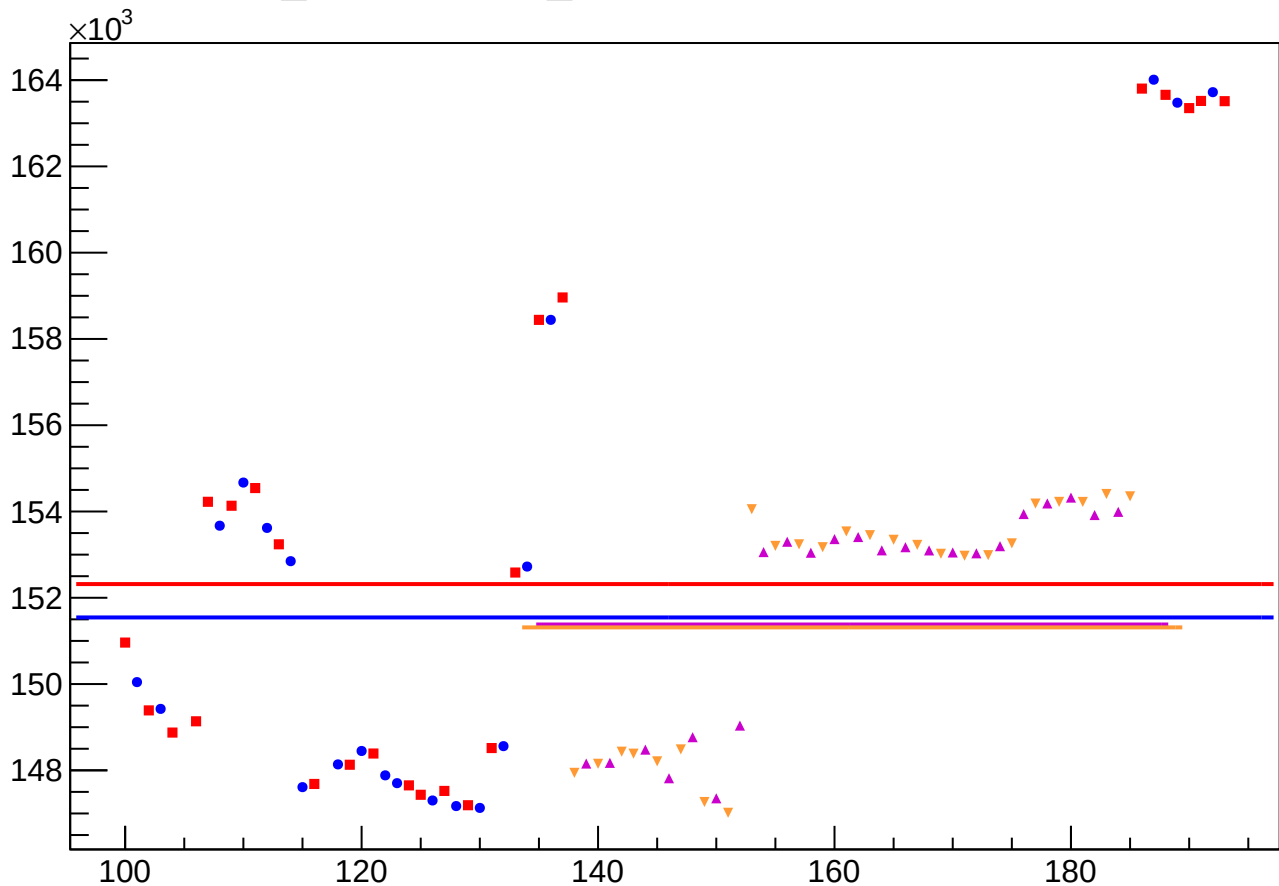
Right: 0.776 $\pm$ 0.000 χ^2 /NDF: 5880185.1/43

In: 0.801 $\pm$ 0.000 χ^2 /NDF:3236238.3/42

Out: 0.793 $\pm$ 0.000 χ^2 /NDF:3836645.6/48

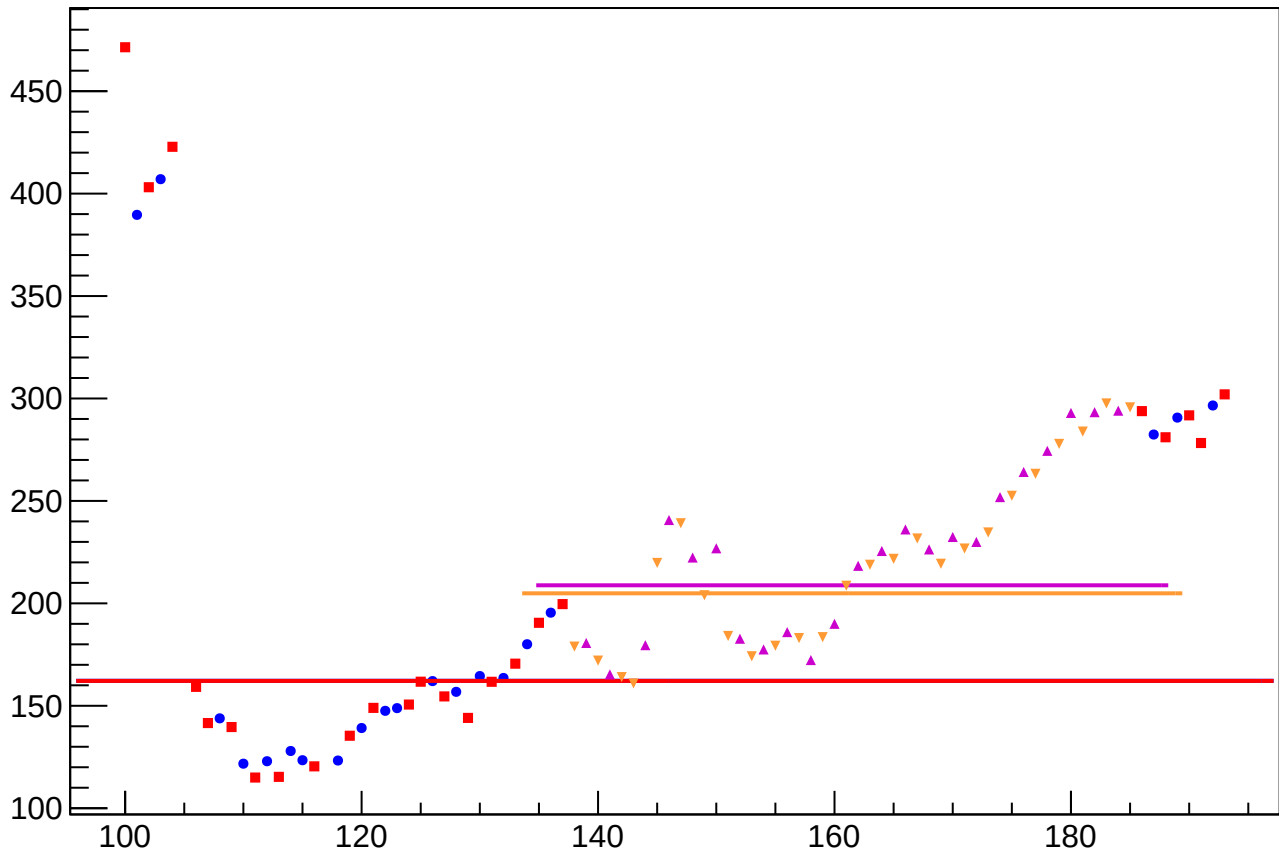
All: 0.797 $\pm$ 0.000 χ^2 /NDF: 7074729.7/91

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 151543.948 $\pm$ 0.061 χ^2 /NDF: 6108194370.9/19
 Left Out: 151313.284 $\pm$ 0.049 χ^2 /NDF: 3153768134.8/24
 Right Out: 152317.486 $\pm$ 0.057 χ^2 /NDF: 7614400670.9/23
 Left In: 151380.236 $\pm$ 0.051 χ^2 /NDF: 2363895785.3/22
 Left: 151345.082 $\pm$ 0.035 χ^2 /NDF: 5518562148.3/4
 Right: 151958.766 $\pm$ 0.042 χ^2 /NDF: 13808918216.5
 In: 151447.926 $\pm$ 0.039 χ^2 /NDF: 8476319204.9/42
 Out: 151739.473 $\pm$ 0.037 χ^2 /NDF: 10948740331.1
 All: 151602.376 $\pm$ 0.027 χ^2 /NDF: 194543583

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 162.210 $\pm$ 0.043 χ^2 /NDF: 1810118.5/19

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF: 1056380.8/24

Right Out: 162.141 $\pm$ 0.040 χ^2 /NDF: 2293678.0/23

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

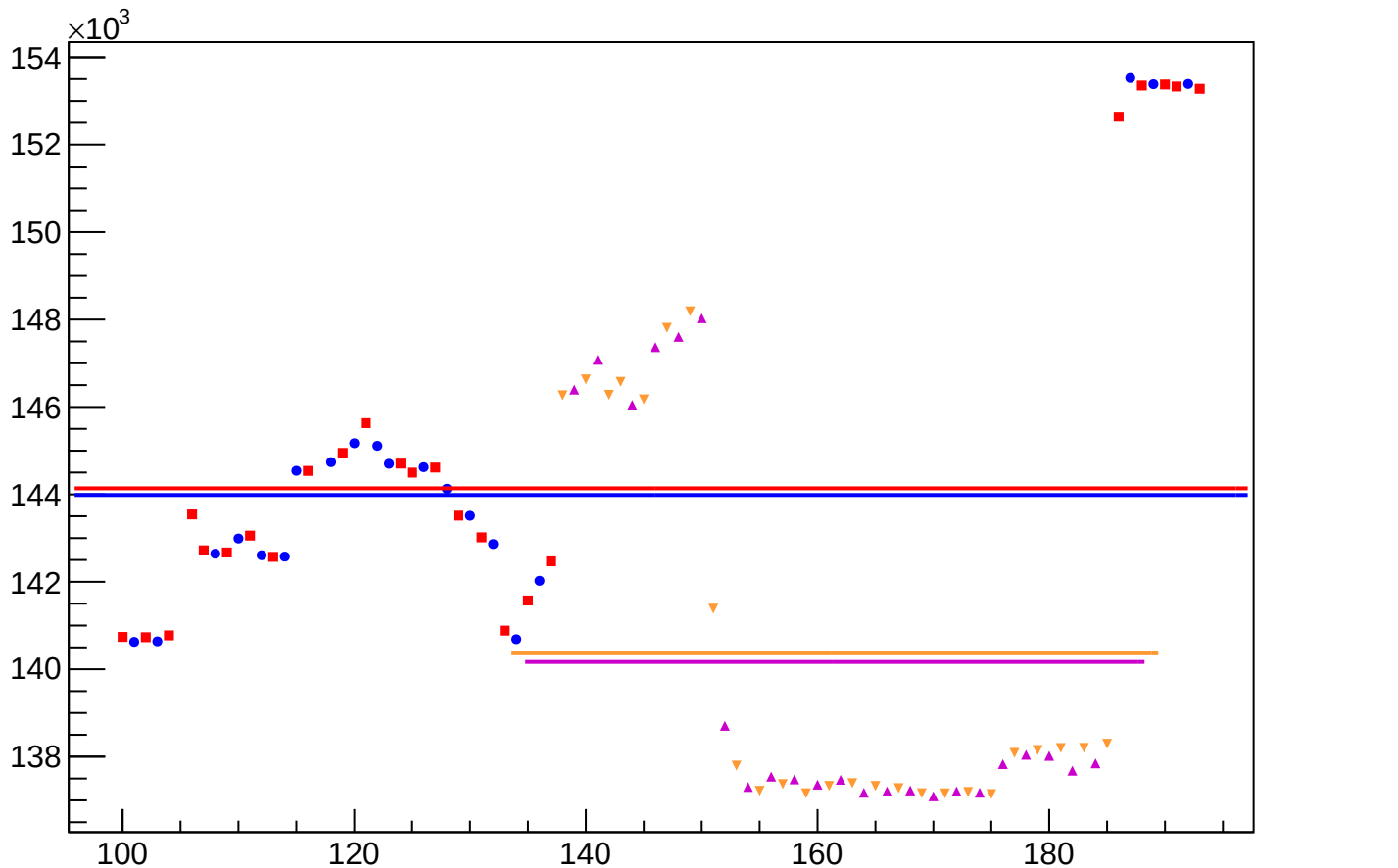
Right: 162.173 $\pm$ 0.029 χ^2 /NDF: 4103797.8/43

In: 189.544 $\pm$ 0.028 χ^2 /NDF: 3497442.7/42

Out: 186.753 $\pm$ 0.026 χ^2 /NDF: 4004819.1/48

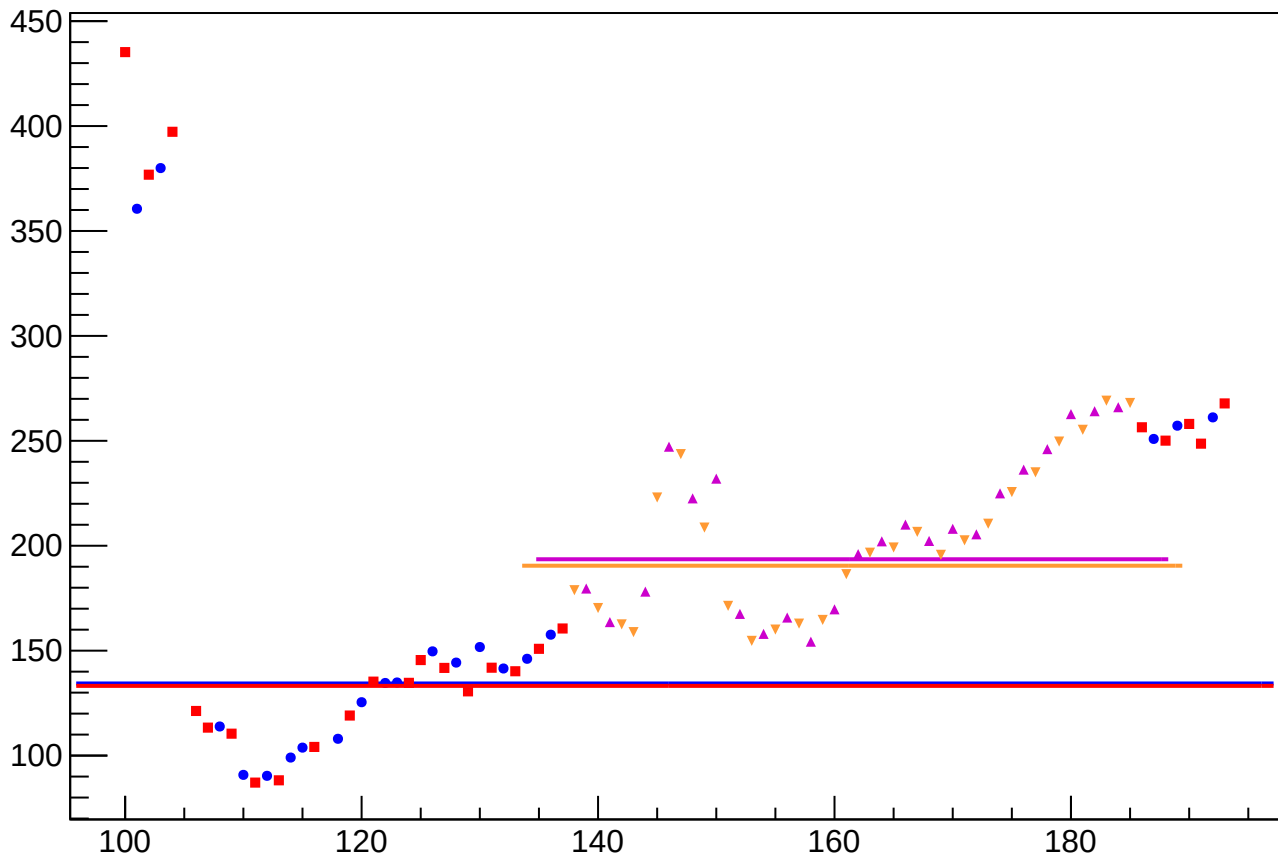
All: 188.065 $\pm$ 0.019 χ^2 /NDF: 7507633.1/91

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143985.956 $\pm$ 0.051	χ^2 /NDF: 2677038167.3/19	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 144069.329 $\pm$ 0.035	χ^2 /NDF: 6818895063.7
Right Out: 144139.477 $\pm$ 0.047	χ^2 /NDF: 4136971808.0/23	In: 141931.946 $\pm$ 0.035	χ^2 /NDF: 13699318175.7/4
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 142180.966 $\pm$ 0.033	χ^2 /NDF: 16167859236.5
		All: 142064.685 $\pm$ 0.024	χ^2 /NDF: 29894474

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 134.362 $\pm$ 0.036 χ^2 /NDF: 2196565.6/19

Left Out: 190.486 $\pm$ 0.032 χ^2 /NDF:950233.2/24

Right Out: 133.222 $\pm$ 0.033 χ^2 /NDF: 2758572.9/23

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

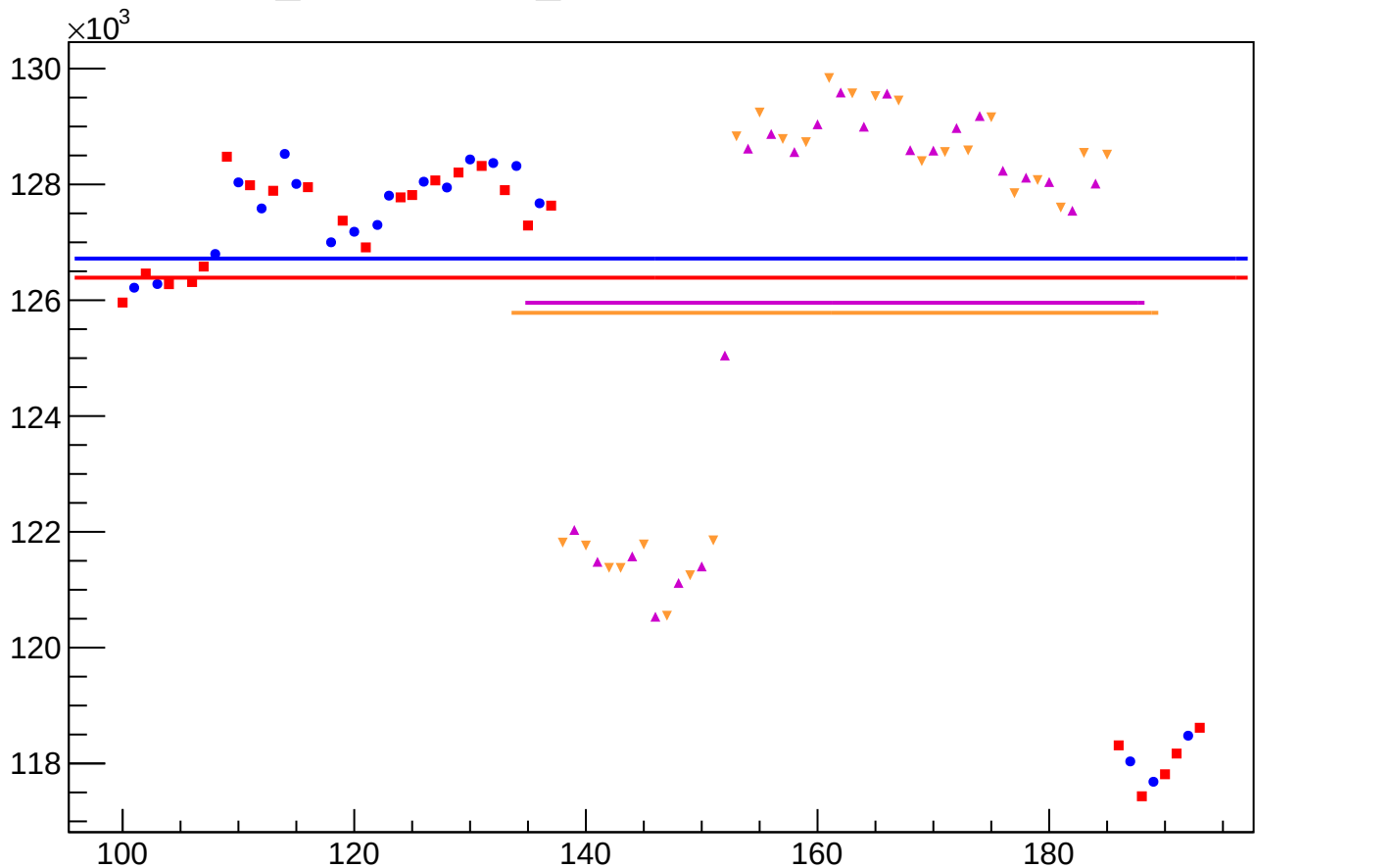
Right: 133.743 $\pm$ 0.024 χ^2 /NDF: 4955677.4/43

In: 166.200 $\pm$ 0.025 χ^2 /NDF:4598863.4/42

Out: 162.931 $\pm$ 0.023 χ^2 /NDF:5252250.1/48

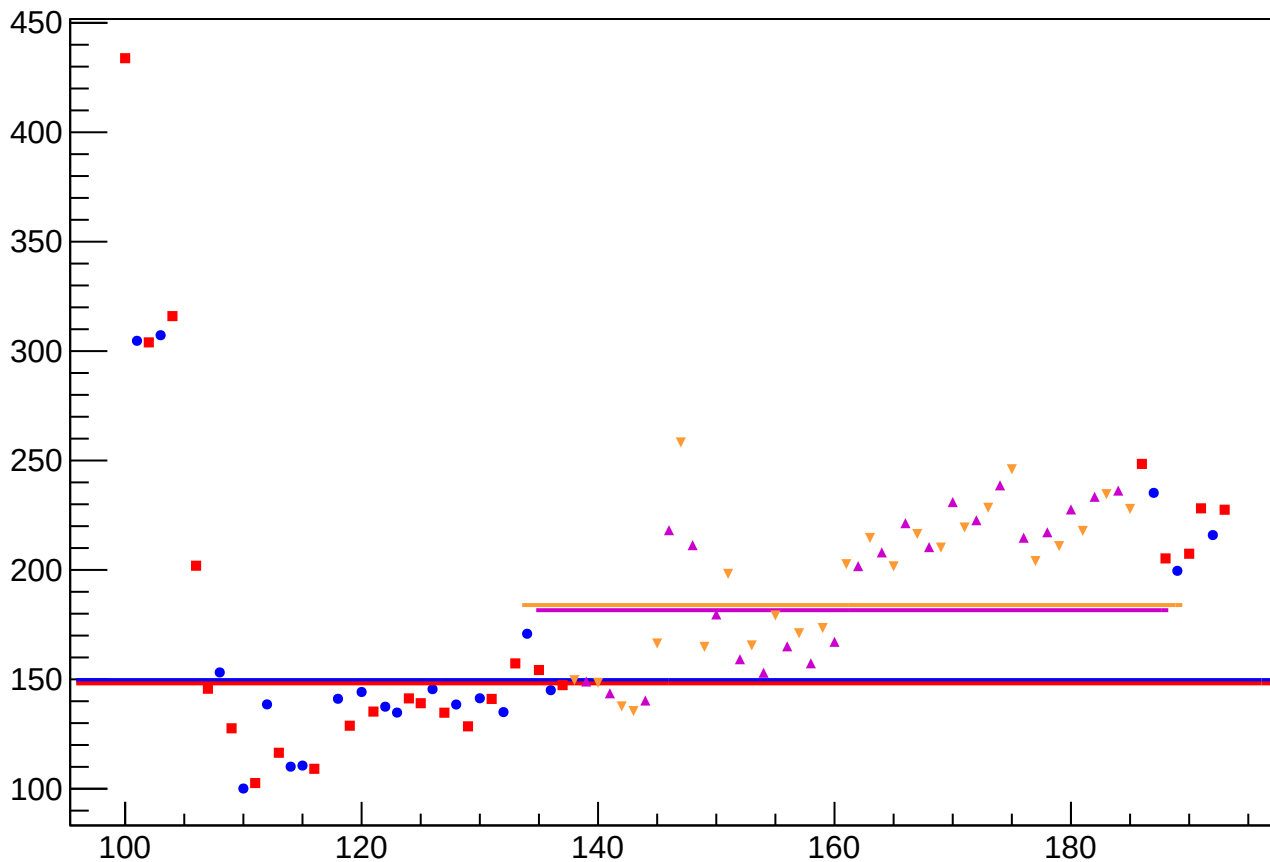
All: 164.457 $\pm$ 0.017 χ^2 /NDF: 9860523.9/91

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 126719.709 $\pm$ 0.055	χ^2 /NDF: 2878635359.3/19	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/19
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 126540.881 $\pm$ 0.037	χ^2 /NDF: 7403135171.2/24
Right Out: 126389.519 $\pm$ 0.051	χ^2 /NDF: 4505044820.3/23	In: 126259.827 $\pm$ 0.035	χ^2 /NDF: 8798498485.4/42
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 126043.542 $\pm$ 0.033	χ^2 /NDF: 11316523255.8/22
		All: 126146.810 $\pm$ 0.024	χ^2 /NDF: 201352514/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 149.654+/-0.039 χ^2/NDF : 1134363.6/19

Left Out: 183.947+/-0.031 χ^2/NDF : 1123194.0/24

Right Out: 148.159+/-0.036 χ^2/NDF : 1586547.0/23

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

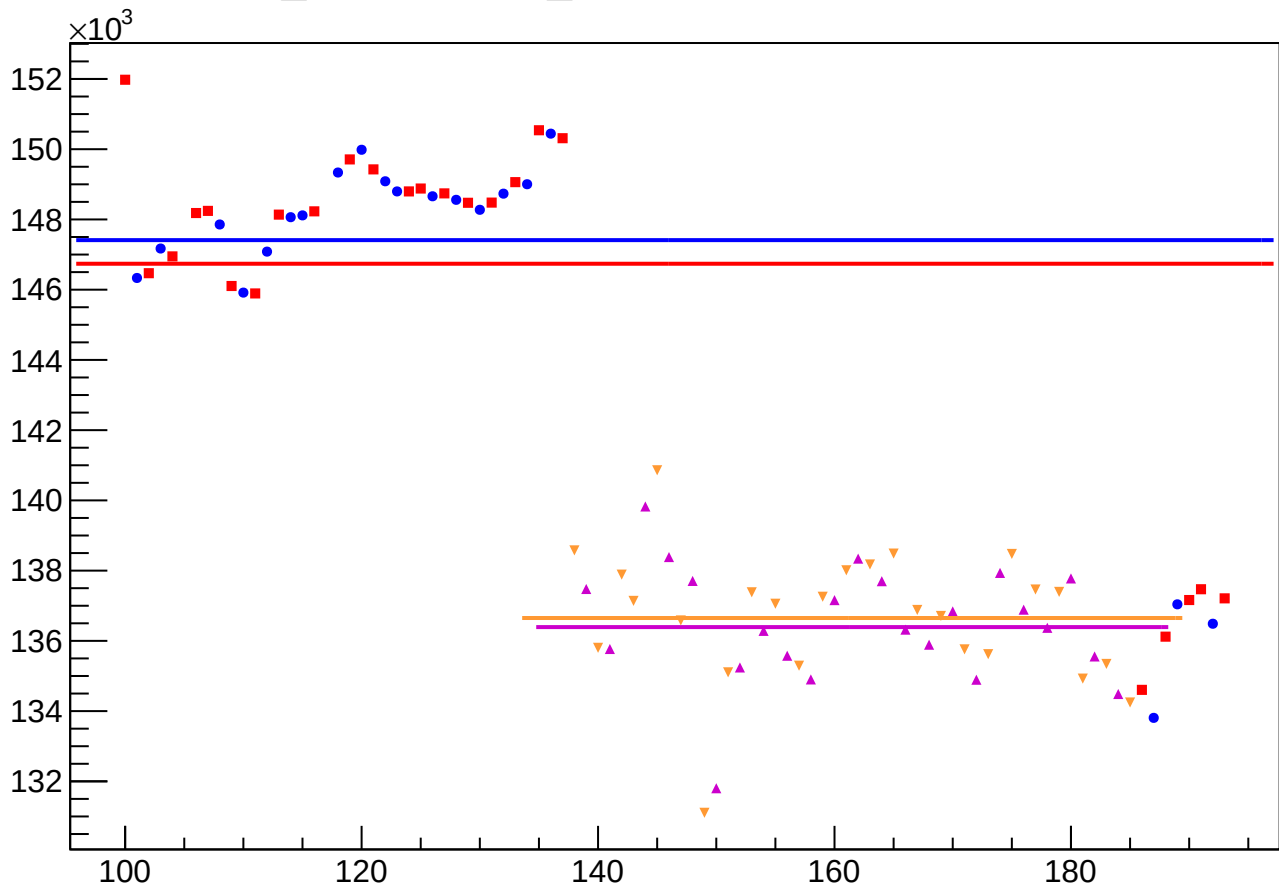
Right: 148.844+/-0.026 χ^2/NDF : 2721709.0/43

In: 168.879+/-0.025 χ^2/NDF : 2642537.1/42

Out: 168.565+/-0.023 χ^2/NDF : 3278315.4/48

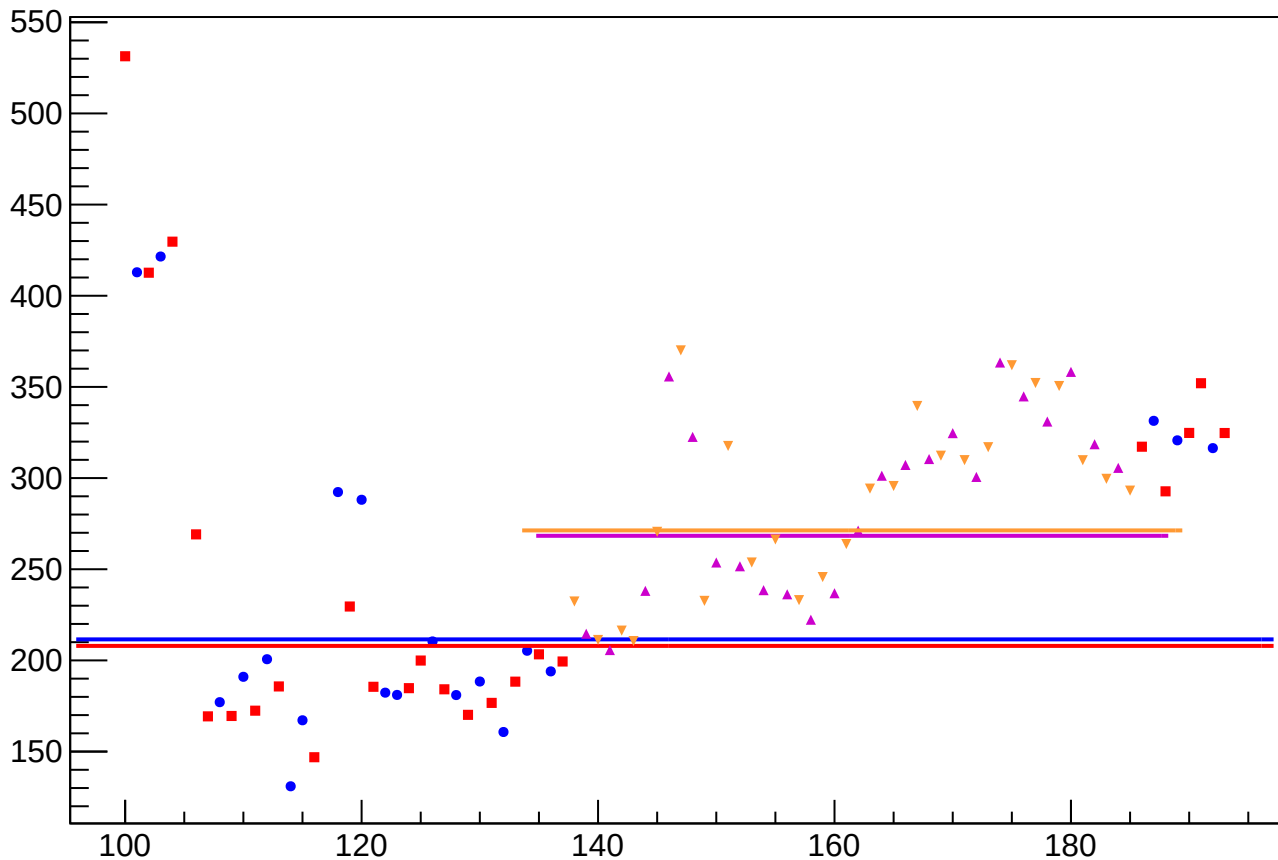
All: 168.715+/-0.017 χ^2/NDF : 5920937.7/91

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 147410.911 $\pm$ 0.078	χ^2 /NDF: 2223550673.6/19	Left: 136524.219 $\pm$ 0.046	χ^2 /NDF: 1640486942.5/4
Left Out: 136650.935 $\pm$ 0.065	χ^2 /NDF: 930649595.5/24	Right: 147042.760 $\pm$ 0.053	χ^2 /NDF: 5744069067.8/4
Right Out: 146738.564 $\pm$ 0.071	χ^2 /NDF: 3480225951.5/23	In: 140961.047 $\pm$ 0.050	χ^2 /NDF: 14494260260.6/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 141204.399 $\pm$ 0.048	χ^2 /NDF: 15408994762.5/4
		All: 141089.160 $\pm$ 0.035	χ^2 /NDF: 299154943.5/4

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 211.532 $\pm$ 0.055 χ^2 /NDF: 1319447.9/19

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF: 1064485.7/24

Right Out: 207.956 $\pm$ 0.050 χ^2 /NDF: 1522567.1/23

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

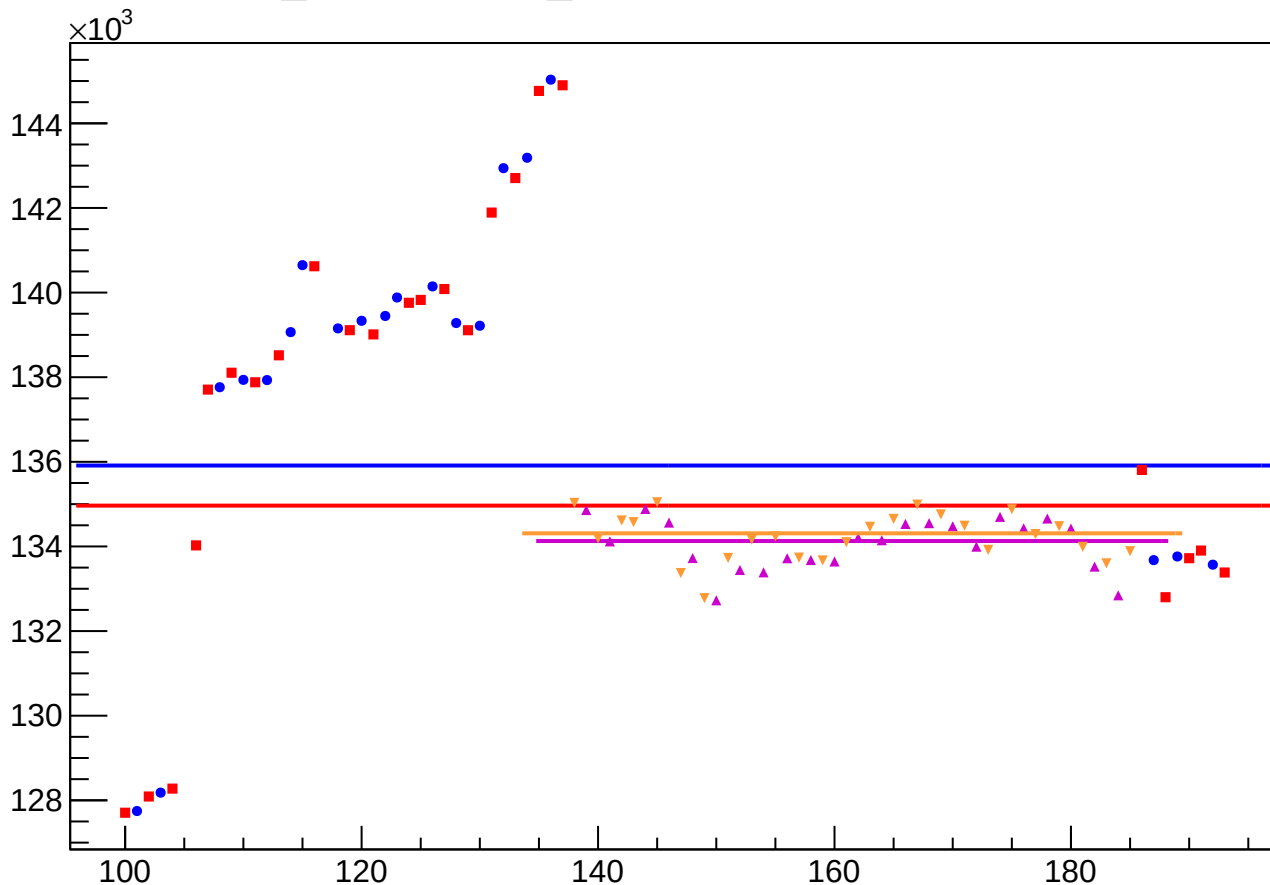
Right: 209.574 $\pm$ 0.037 χ^2 /NDF: 2844294.8/43

In: 244.787 $\pm$ 0.036 χ^2 /NDF: 3011879.5/42

Out: 242.704 $\pm$ 0.034 χ^2 /NDF: 3454243.7/48

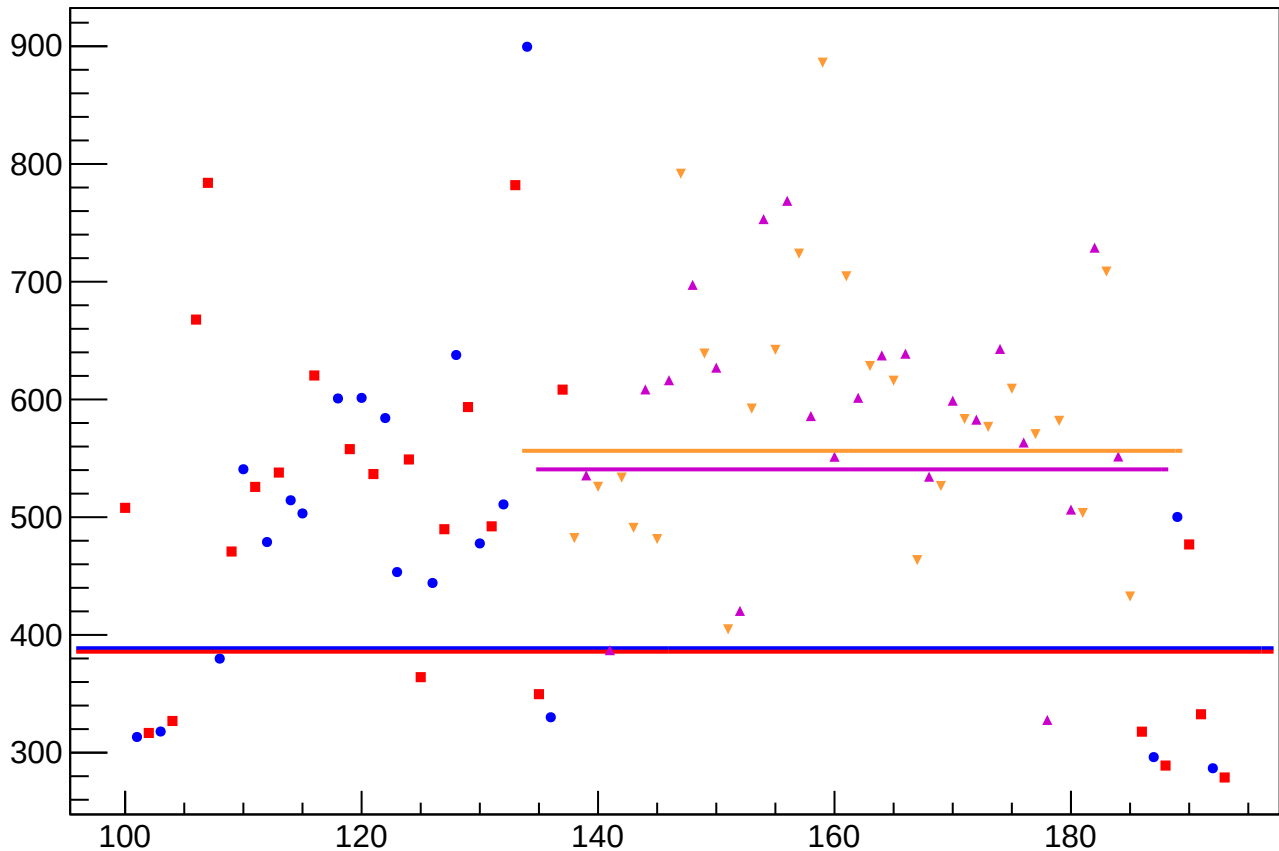
All: 243.691 $\pm$ 0.025 χ^2 /NDF: 6467915.9/91

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 135912.493+/-0.151	$\chi^2/\text{NDF}: 1562232912.6/19$	Left: 134221.438+/-0.099	$\chi^2/\text{NDF}: 31894688.0/47$
Left Out: 134310.250+/-0.139	$\chi^2/\text{NDF}: 15518632.9/24$	Right: 135402.615+/-0.103	$\chi^2/\text{NDF}: 2756258060.7/4$
Right Out: 134964.900+/-0.140	$\chi^2/\text{NDF}: 1172801504.2/23$	In: 134966.200+/-0.103	$\chi^2/\text{NDF}: 1651937002.7/42$
Left In: 134128.172+/-0.142	$\chi^2/\text{NDF}: 15533736.2/22$	Out: 134634.658+/-0.098	$\chi^2/\text{NDF}: 1199382507.5/4$
		All: 134792.233+/-0.071	$\chi^2/\text{NDF}: 285671402$

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 388.704 $\pm$ 0.107 χ^2 /NDF: 1068223.6/19

Left Out: 556.381 $\pm$ 0.098 χ^2 /NDF:1002064.0/24

Right Out: 385.757 $\pm$ 0.099 χ^2 /NDF: 1487987.7/23

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

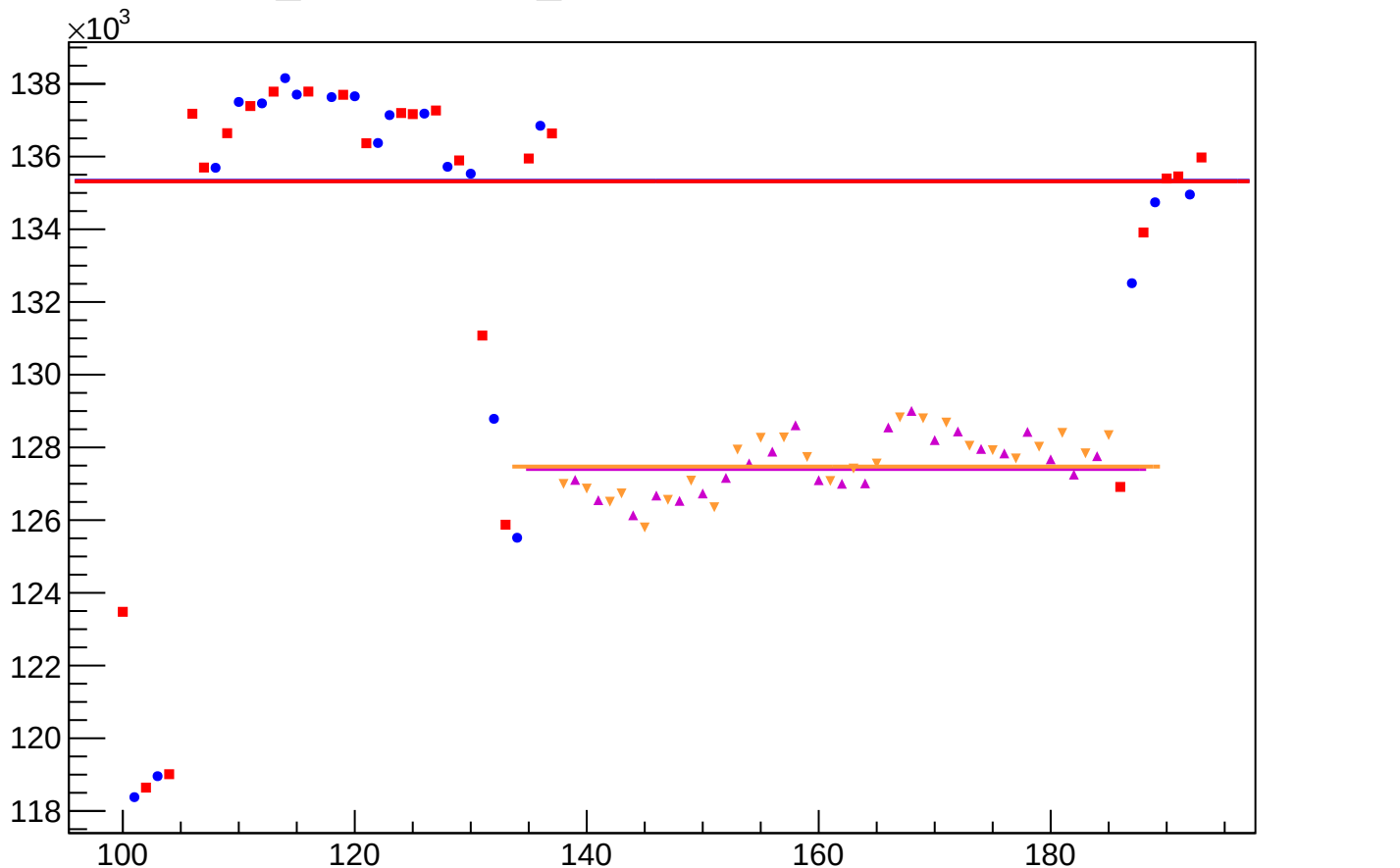
Right: 387.118 $\pm$ 0.073 χ^2 /NDF: 2556622.0/43

In: 469.264 $\pm$ 0.073 χ^2 /NDF:3552331.3/42

Out: 471.830 $\pm$ 0.070 χ^2 /NDF:3992997.5/48

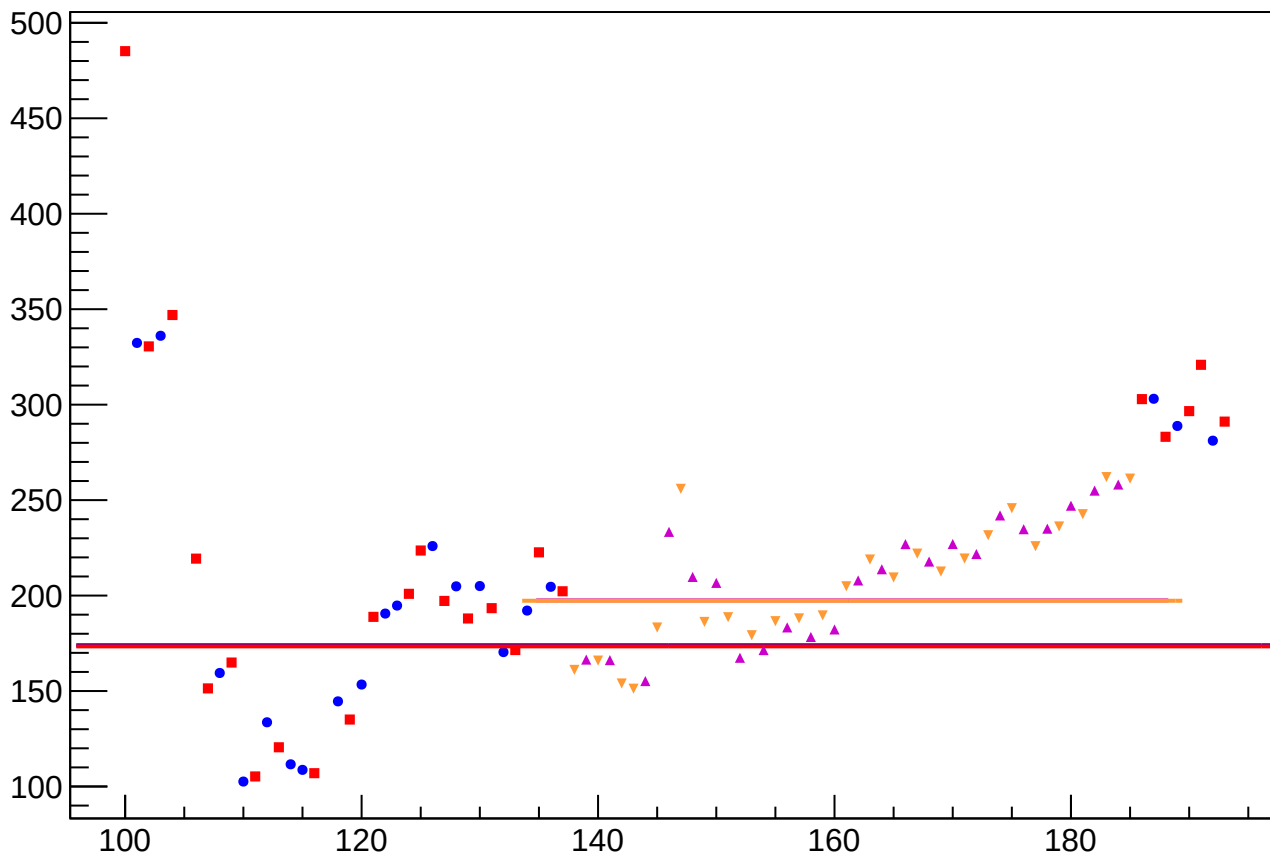
All: 470.610 $\pm$ 0.050 χ^2 /NDF: 7545974.9/91

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135332.601 $\pm$ 0.066	χ^2 /NDF: 4595081849.8/19	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135325.678 $\pm$ 0.045	χ^2 /NDF: 9649935949.1/19
Right Out: 135319.723 $\pm$ 0.061	χ^2 /NDF: 5054833348.9/23	In: 130200.513 $\pm$ 0.039	χ^2 /NDF: 14331102022.7/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130396.810 $\pm$ 0.037	χ^2 /NDF: 15810651789.6/19
		All: 130303.320 $\pm$ 0.027	χ^2 /NDF: 301550783.0/19

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 173.984 $\pm$ 0.046 χ^2 /NDF: 1734021.7/19

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 173.394 $\pm$ 0.043 χ^2 /NDF: 2328198.0/23

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

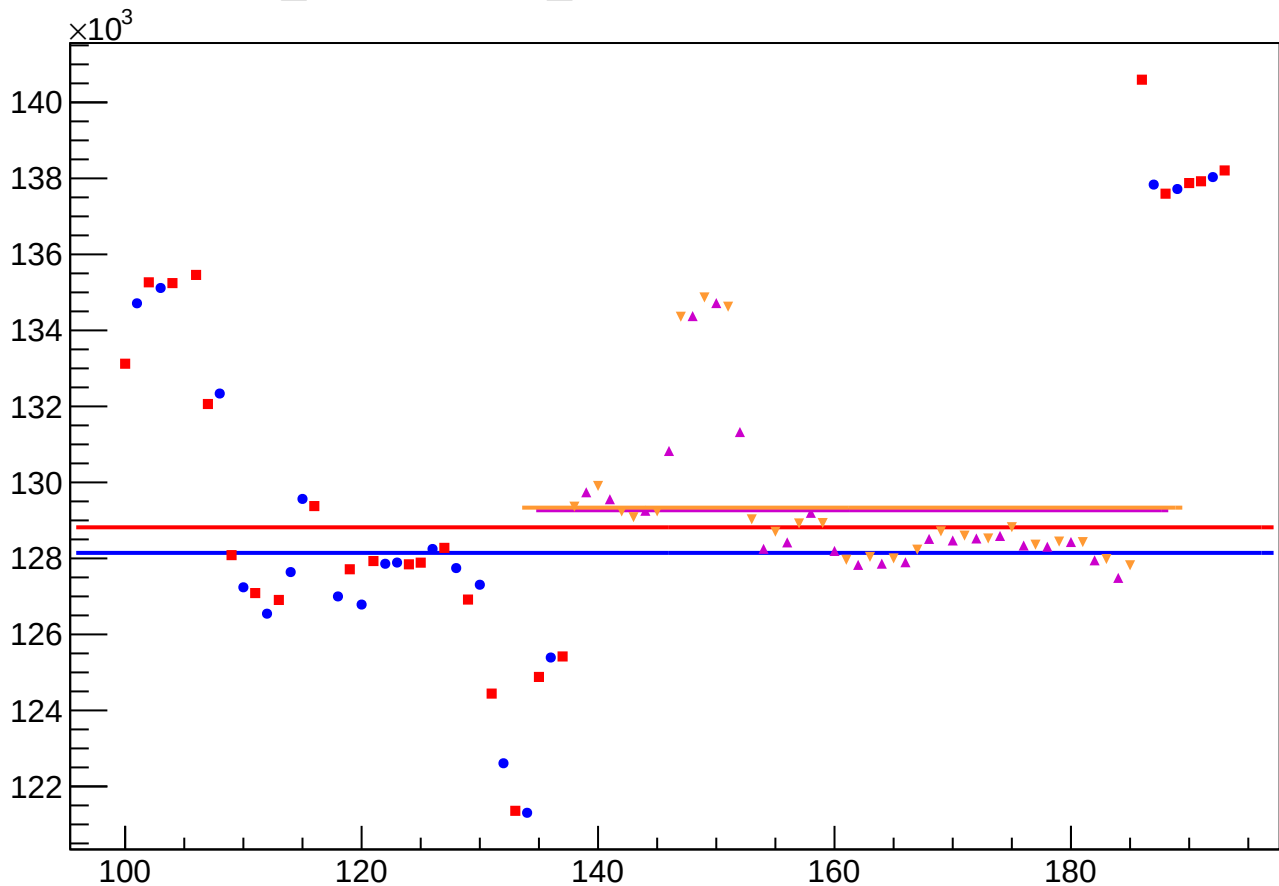
Right: 173.667 $\pm$ 0.032 χ^2 /NDF: 4062306.7/43

In: 189.192 $\pm$ 0.028 χ^2 /NDF: 2691856.2/42

Out: 188.385 $\pm$ 0.026 χ^2 /NDF: 3374053.2/48

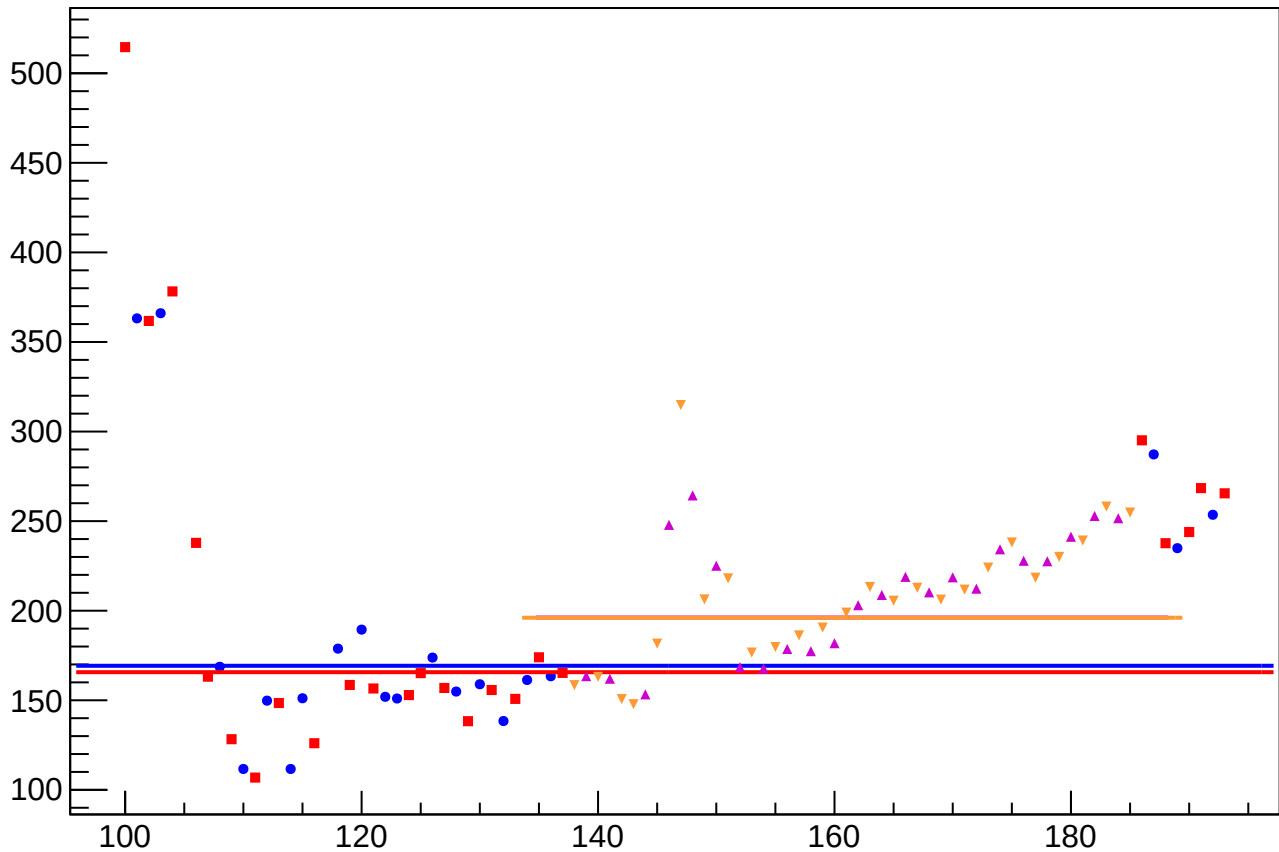
All: 188.769 $\pm$ 0.019 χ^2 /NDF: 6066360.6/91

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 128145.389 $\pm$ 0.063	χ^2 /NDF: 4308826385.1/19	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/4
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 128513.281 $\pm$ 0.042	χ^2 /NDF: 10401809004.1/1
Right Out: 128818.250 $\pm$ 0.057	χ^2 /NDF: 6030828375.3/23	In: 128854.208 $\pm$ 0.038	χ^2 /NDF: 5722192484.7/42
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129129.864 $\pm$ 0.036	χ^2 /NDF: 7530624986.7/4
		All: 128999.538 $\pm$ 0.026	χ^2 /NDF: 132801524.1/1

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 169.258 $\pm$ 0.045 χ^2 /NDF: 1300231.7/19

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 165.678 $\pm$ 0.041 χ^2 /NDF: 1827796.0/23

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

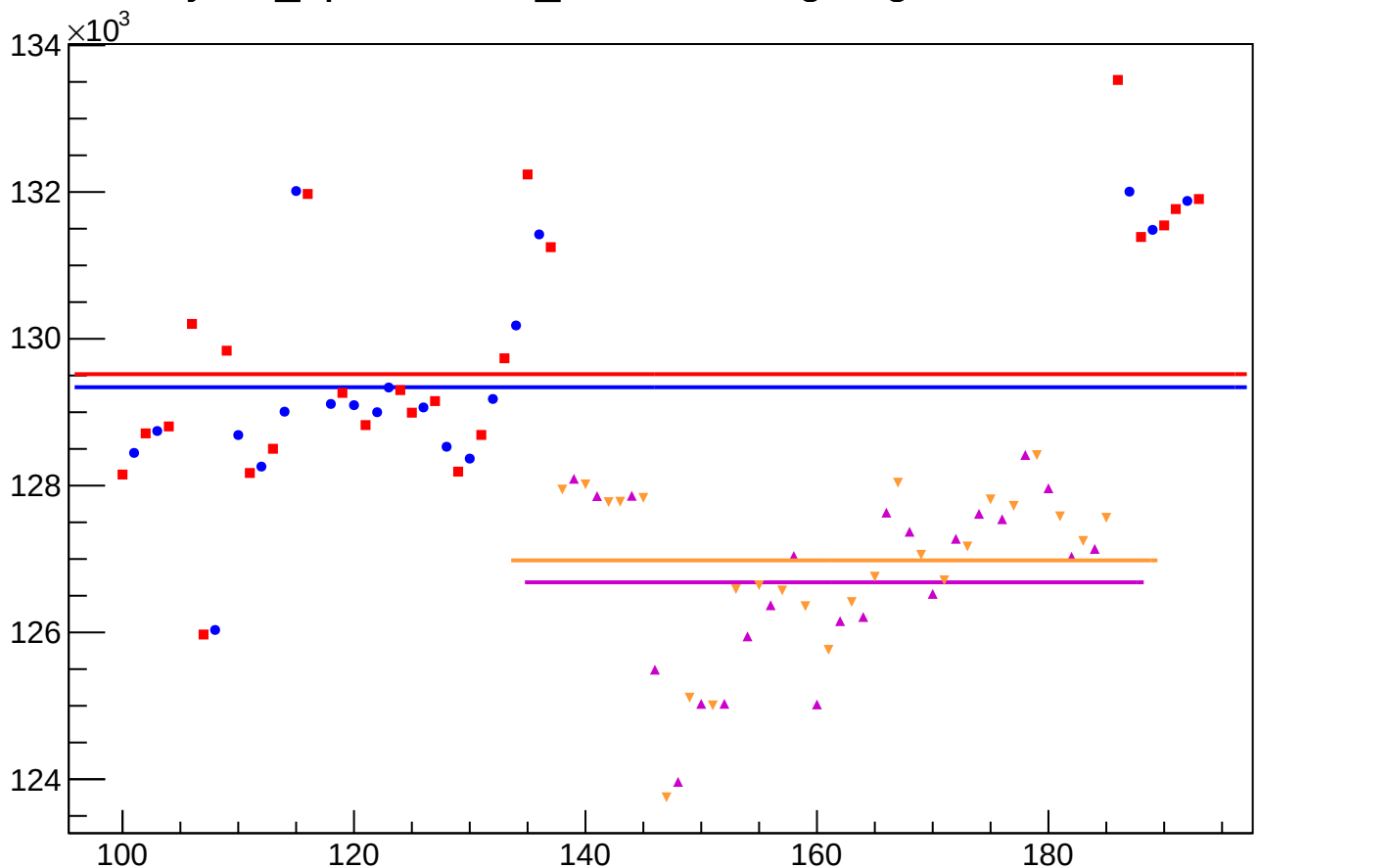
Right: 167.301 $\pm$ 0.030 χ^2 /NDF: 3131547.5/43

In: 186.277 $\pm$ 0.027 χ^2 /NDF: 2428427.3/42

Out: 183.976 $\pm$ 0.026 χ^2 /NDF: 3140479.2/48

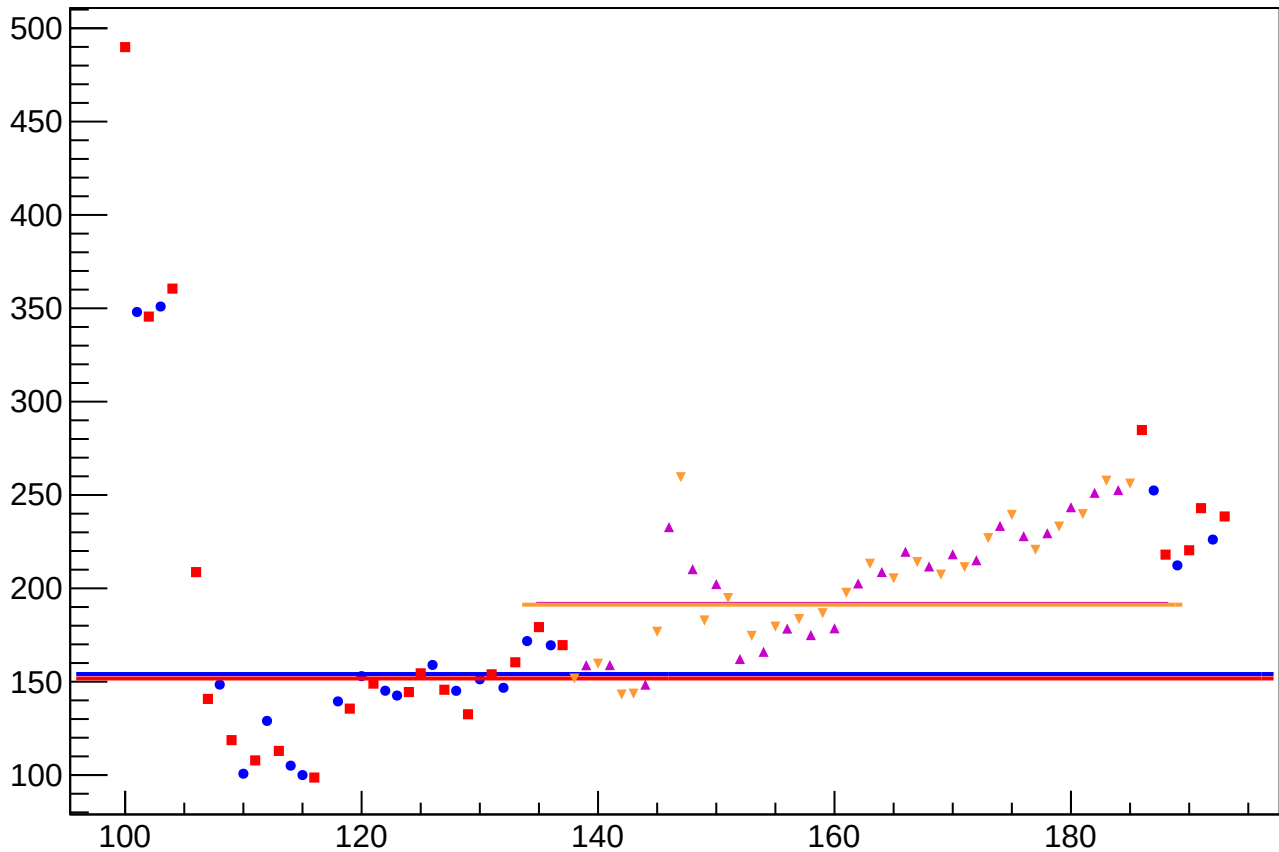
All: 185.064 $\pm$ 0.019 χ^2 /NDF: 5572716.1/91

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129340.365 $\pm$ 0.057	χ^2 /NDF: 675706307.9/19	Left: 126836.943 $\pm$ 0.033	χ^2 /NDF: 1211882944.2/4
Left Out: 126981.724 $\pm$ 0.046	χ^2 /NDF: 530573115.8/24	Right: 129437.034 $\pm$ 0.039	χ^2 /NDF: 1602652178.2/4
Right Out: 129518.235 $\pm$ 0.052	χ^2 /NDF: 921685172.5/23	In: 127754.285 $\pm$ 0.036	χ^2 /NDF: 2625818611.6/42
Left In: 126682.659 $\pm$ 0.047	χ^2 /NDF: 660415880.0/22	Out: 128072.767 $\pm$ 0.034	χ^2 /NDF: 2787698977.9/4
		All: 127922.254 $\pm$ 0.025	χ^2 /NDF: 545410896

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 154.115 $\pm$ 0.040 χ^2 /NDF: 1400438.9/19

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF:992566.2/24

Right Out: 151.736 $\pm$ 0.037 χ^2 /NDF: 1943005.4/23

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF:864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

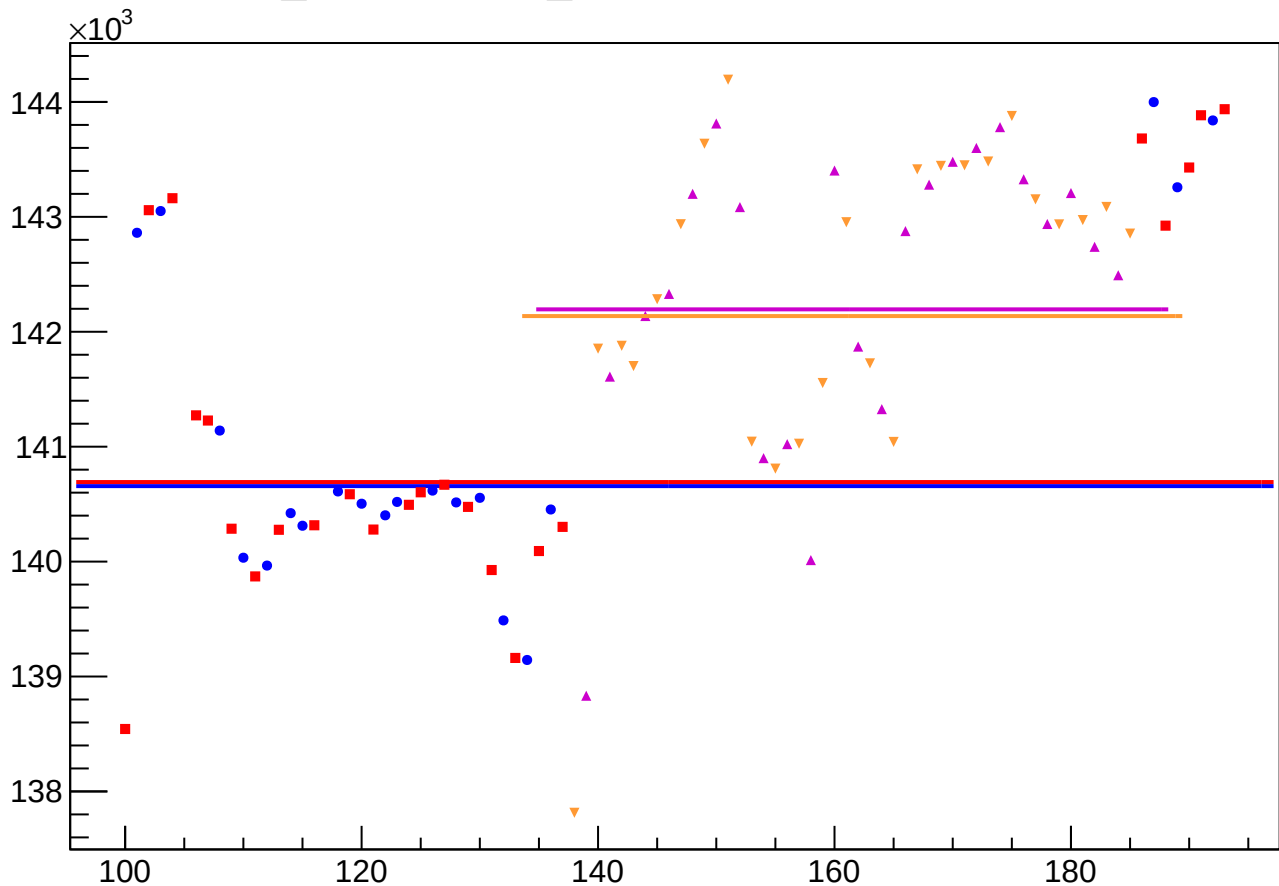
Right: 152.822 $\pm$ 0.027 χ^2 /NDF: 3345327.1/43

In: 176.535 $\pm$ 0.026 χ^2 /NDF:2780197.2/42

Out: 174.261 $\pm$ 0.024 χ^2 /NDF:3584163.4/48

All: 175.336 $\pm$ 0.018 χ^2 /NDF: 6368498.9/91

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140656.828 $\pm$ 0.062 χ^2 /NDF: 290390310.8/19

Left Out: 142136.579 $\pm$ 0.052 χ^2 /NDF: 815573343.0/24

Right Out: 140692.281 $\pm$ 0.057 χ^2 /NDF: 379435577.5/23

Left In: 142195.020 $\pm$ 0.054 χ^2 /NDF: 644030906.9/22

Left: 142164.953 $\pm$ 0.038 χ^2 /NDF: 1460209902.9/4

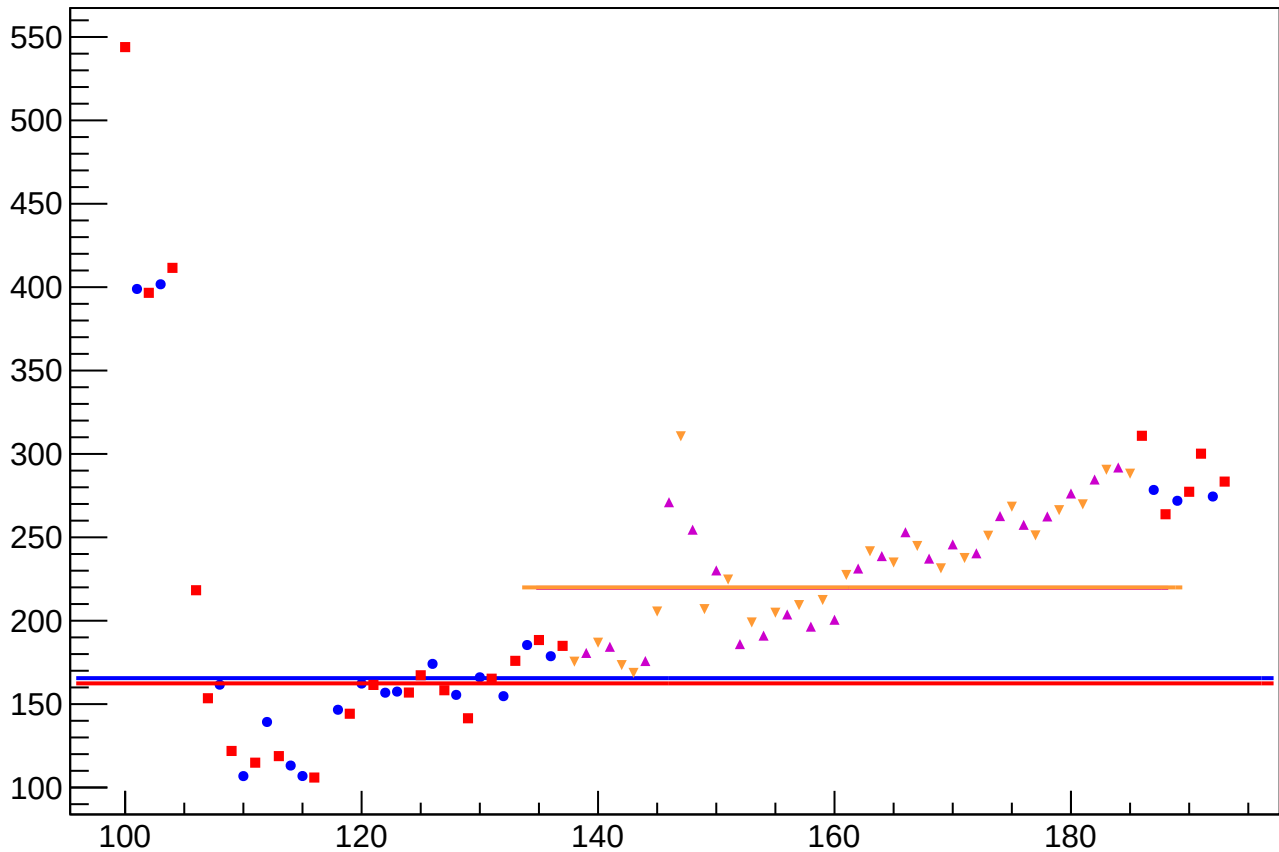
Right: 140676.109 $\pm$ 0.042 χ^2 /NDF: 670004332.3/4

In: 141532.133 $\pm$ 0.041 χ^2 /NDF: 1285883227.3/42

Out: 141472.075 $\pm$ 0.038 χ^2 /NDF: 1545543021.6/4

All: 141500.447 $\pm$ 0.028 χ^2 /NDF: 283257895

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 165.569+/-0.044 χ^2/NDF : 1675084.7/19

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 162.432+/-0.040 χ^2/NDF : 2316847.9/23

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

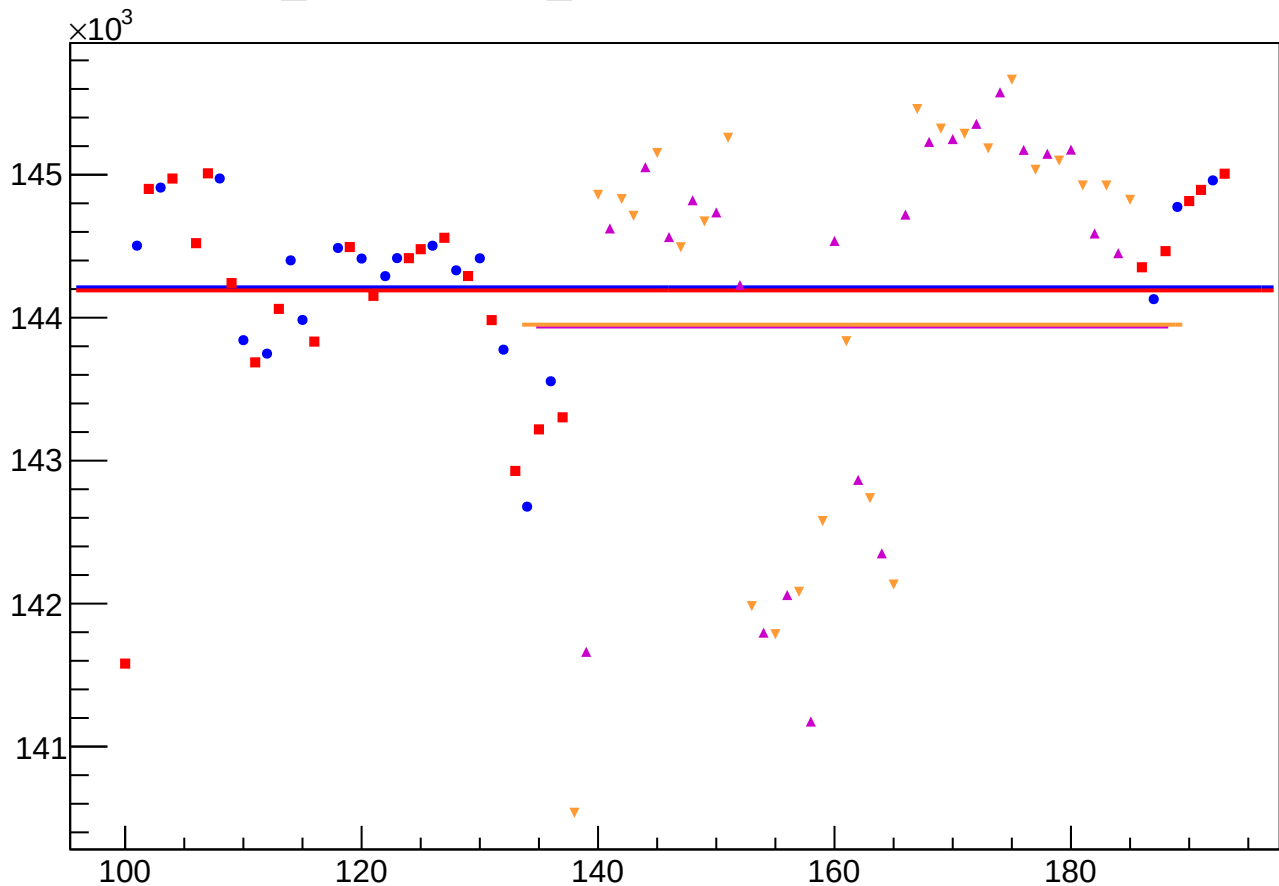
Right: 163.863+/-0.030 χ^2/NDF : 3994725.6/43

In: 196.363+/-0.029 χ^2/NDF : 3357869.3/42

Out: 193.497+/-0.027 χ^2/NDF : 4296065.9/48

All: 194.851+/-0.020 χ^2/NDF : 7659185.3/91

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144212.067 $\pm$ 0.063

χ^2 /NDF: 60348289.7/19

Left: 143944.995 $\pm$ 0.037

χ^2 /NDF: 1584524299.4/4

Left Out: 143951.284 $\pm$ 0.052

χ^2 /NDF: 864679545.2/24

Right: 144200.527 $\pm$ 0.042

χ^2 /NDF: 140862210.1/4

Right Out: 144190.985 $\pm$ 0.057

χ^2 /NDF: 80452845.2/23

In: 144053.607 $\pm$ 0.041

χ^2 /NDF: 791054056.1/42

Out: 144059.662 $\pm$ 0.039

χ^2 /NDF: 954689772.7/48

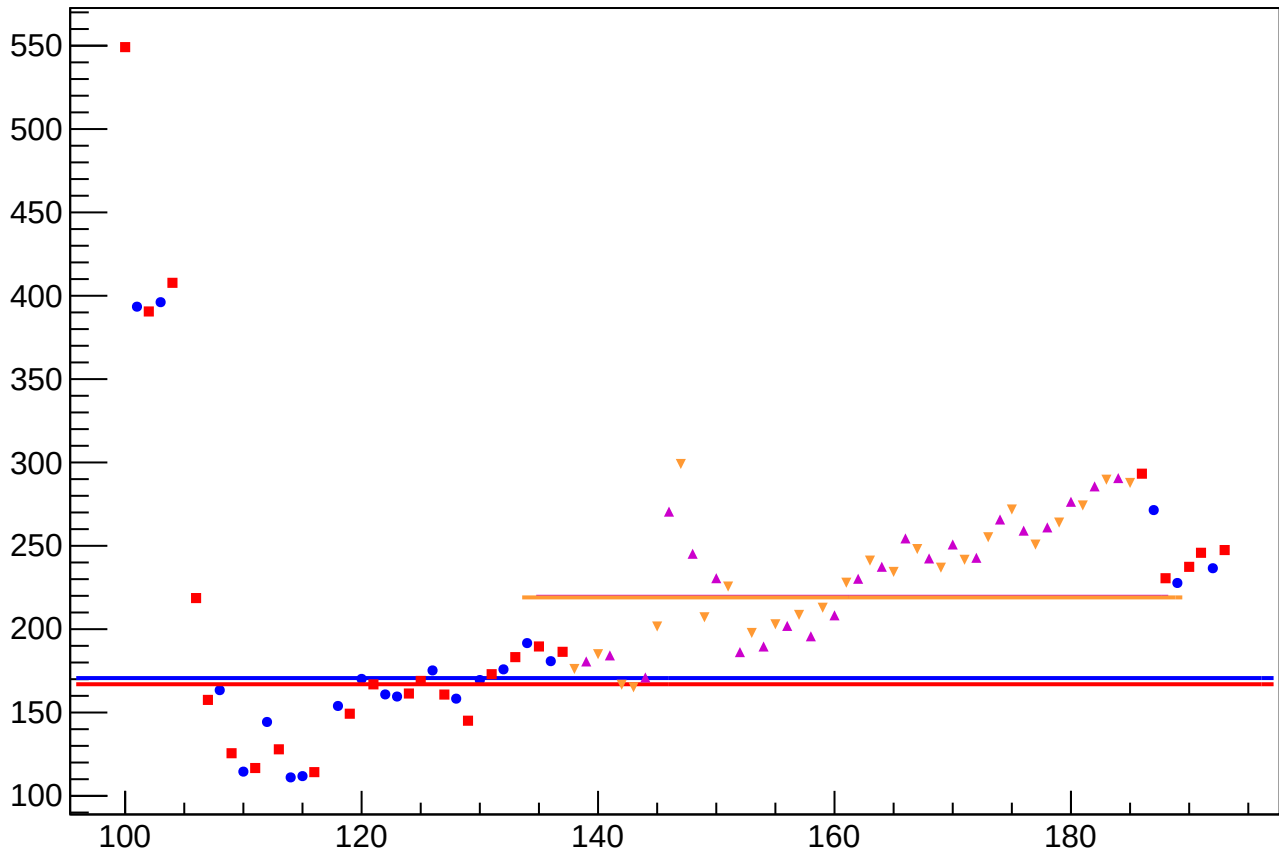
Left In: 143938.288 $\pm$ 0.054

χ^2 /NDF: 719814685.6/22

All: 144056.815 $\pm$ 0.028

χ^2 /NDF: 174575540

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 170.666 $\pm$ 0.045 χ^2 /NDF: 1339735.8/19

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF: 934417.6/24

Right Out: 166.963 $\pm$ 0.041 χ^2 /NDF: 1831967.7/23

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

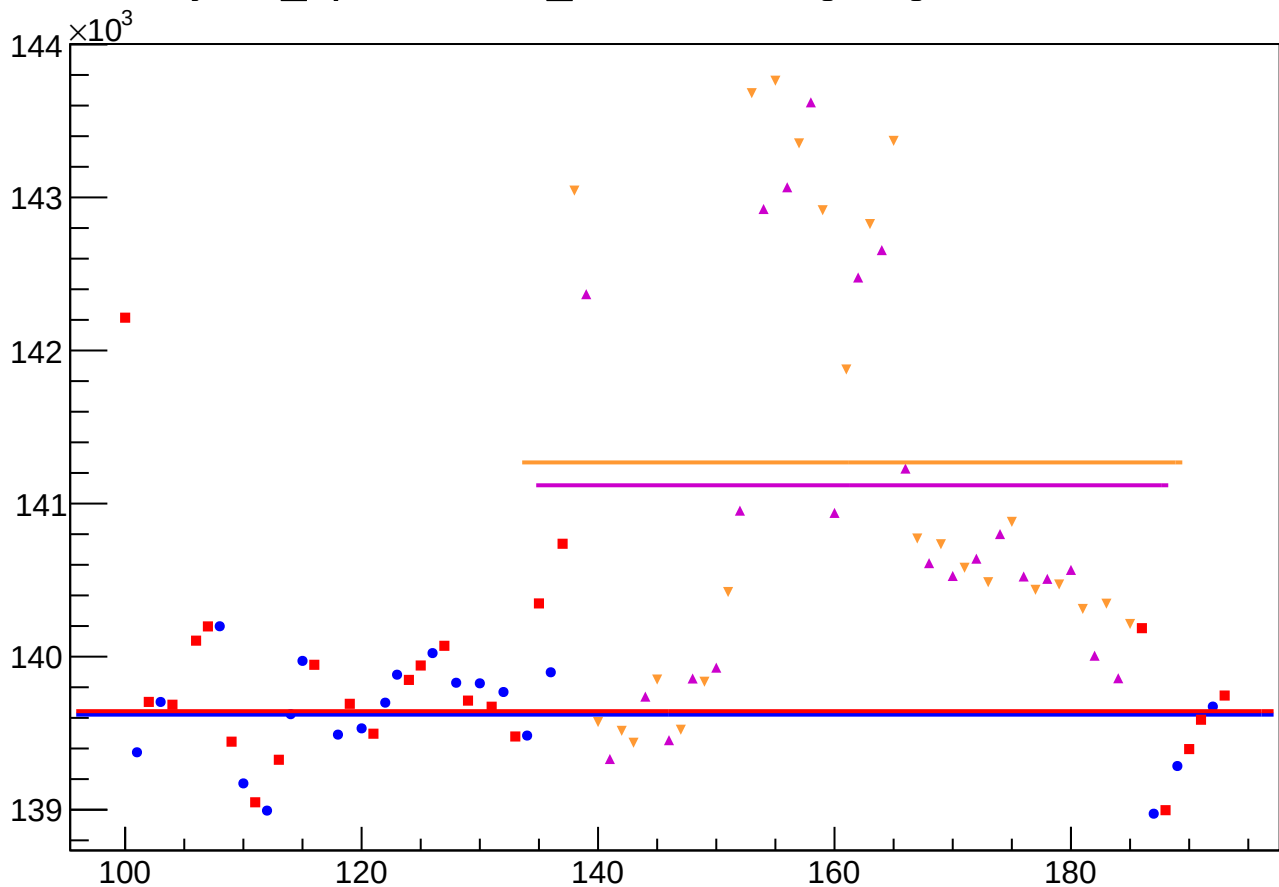
Right: 168.639 $\pm$ 0.030 χ^2 /NDF: 3175471.7/43

In: 198.887 $\pm$ 0.029 χ^2 /NDF: 2880749.2/42

Out: 195.499 $\pm$ 0.027 χ^2 /NDF: 3668964.1/48

All: 197.092 $\pm$ 0.020 χ^2 /NDF: 6556962.5/91

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139621.127 $\pm$ 0.064

χ^2 /NDF: 26584894.1/19

Left Out: 141268.791 $\pm$ 0.054

χ^2 /NDF: 795989244.2/24

Right Out: 139643.840 $\pm$ 0.059

χ^2 /NDF: 44572927.5/23

Left In: 141119.484 $\pm$ 0.055

χ^2 /NDF: 565312728.1/22

Left: 141195.809 $\pm$ 0.038

χ^2 /NDF: 1365080862.2/4

Right: 139633.469 $\pm$ 0.044

χ^2 /NDF: 71225249.1/43

In: 140489.567 $\pm$ 0.042

χ^2 /NDF: 904877809.5/42

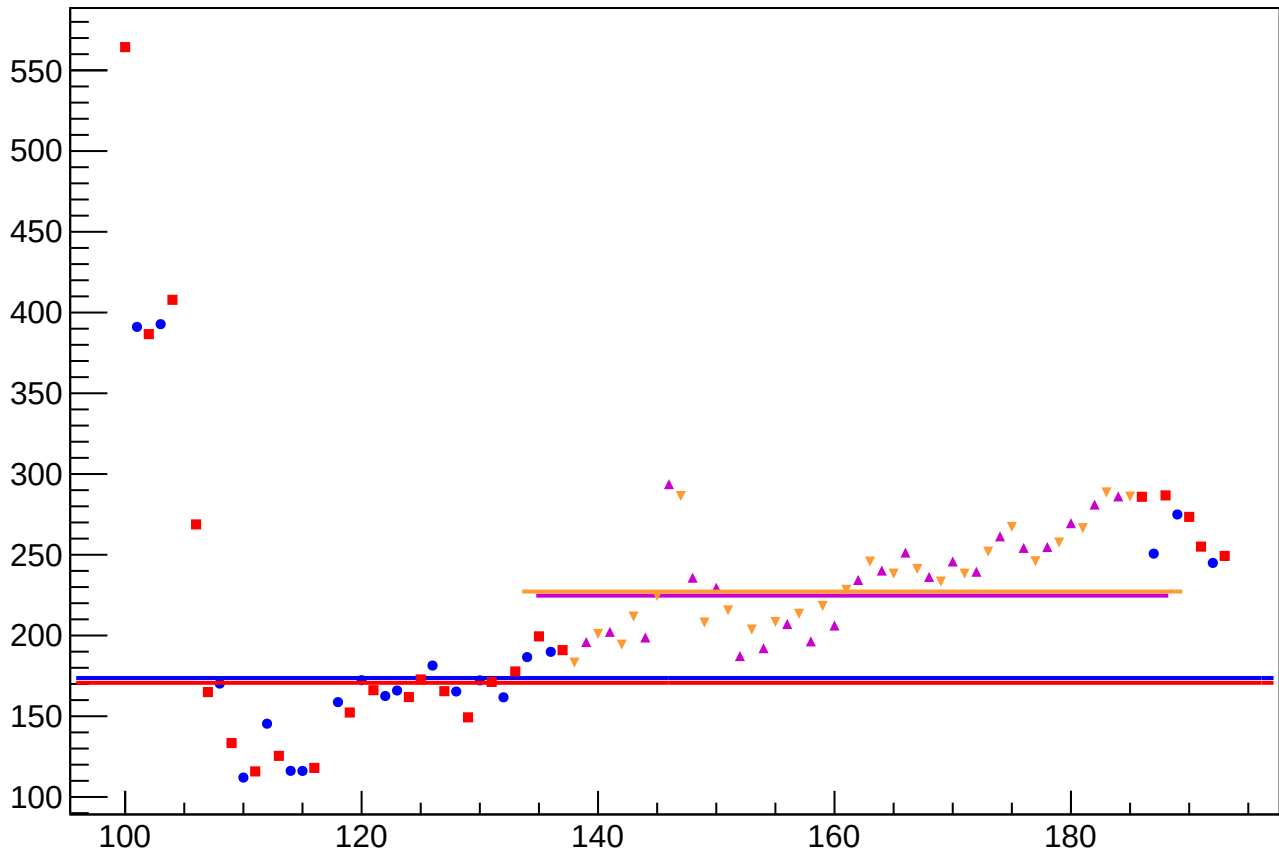
Out: 140534.032 $\pm$ 0.040

χ^2 /NDF: 1254612548.9/4

All: 140512.923 $\pm$ 0.029

χ^2 /NDF: 21600845

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 173.692 $\pm$ 0.046 χ^2 /NDF: 1408825.2/19

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF: 484955.3/24

Right Out: 170.709 $\pm$ 0.042 χ^2 /NDF: 2032384.6/23

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

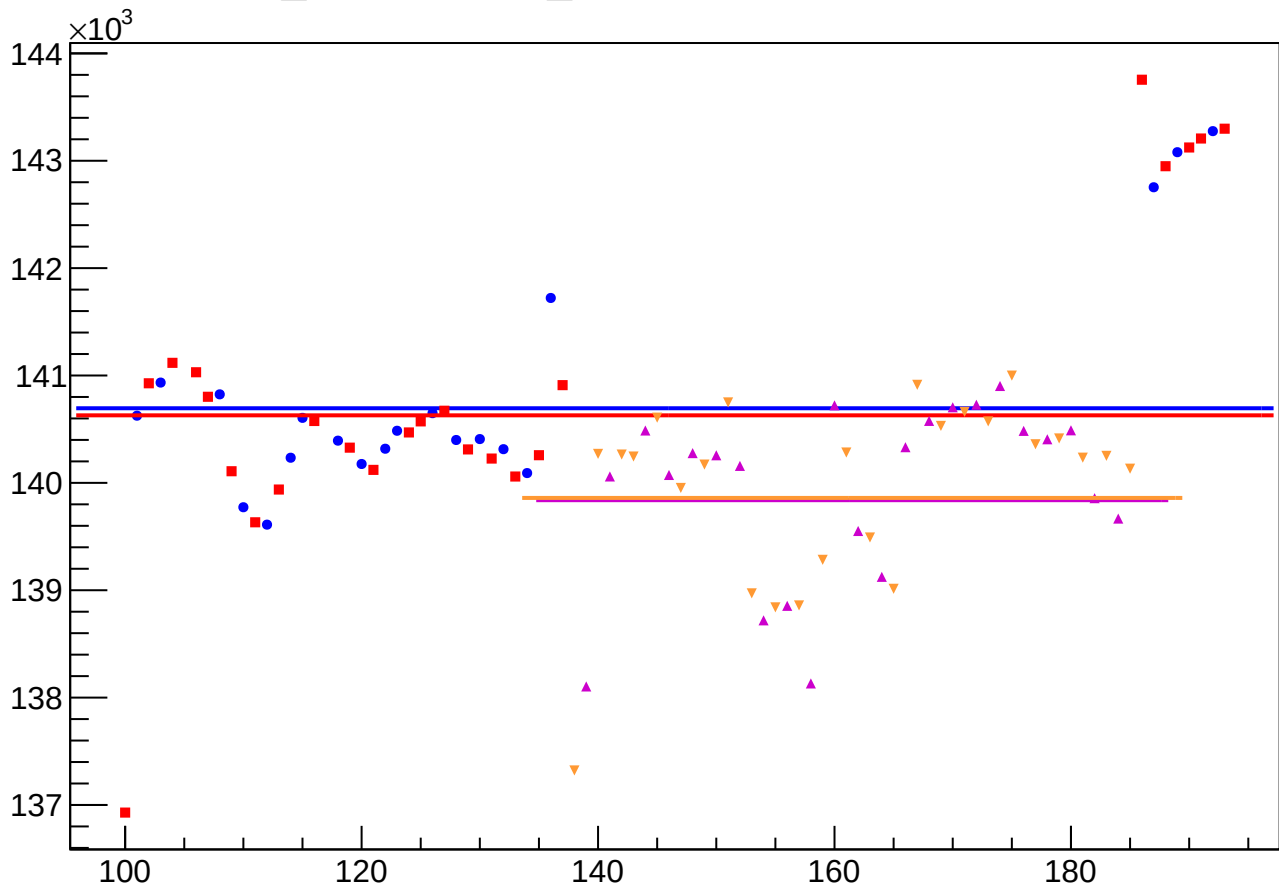
Right: 172.071 $\pm$ 0.031 χ^2 /NDF: 3443535.5/43

In: 203.248 $\pm$ 0.030 χ^2 /NDF: 2712225.4/42

Out: 201.670 $\pm$ 0.028 χ^2 /NDF: 3519012.3/48

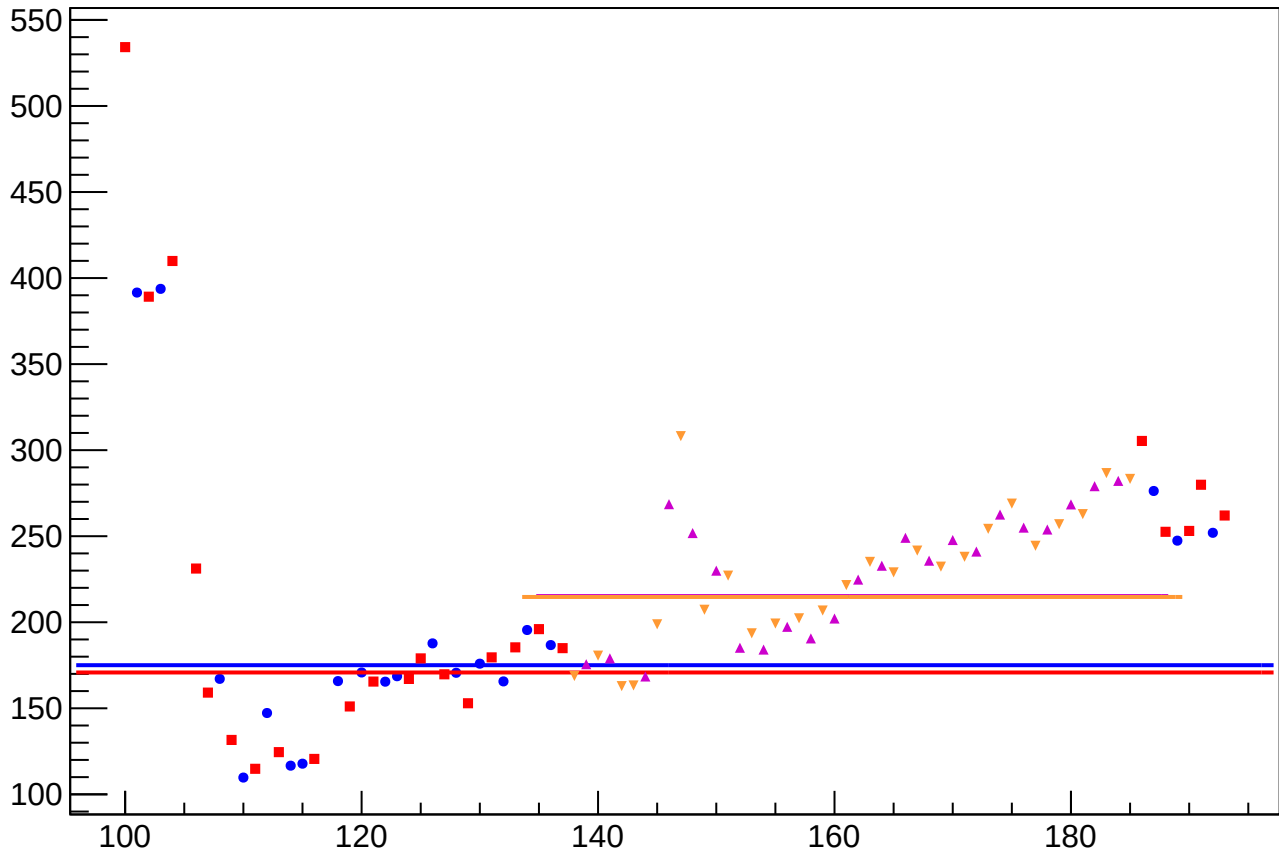
All: 202.419 $\pm$ 0.020 χ^2 /NDF: 6232735.3/91

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140694.901 $\pm$ 0.065	χ^2 /NDF: 234076149.3/19	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: 140658.801 $\pm$ 0.044	χ^2 /NDF: 548107565.8/47
Right Out: 140628.988 $\pm$ 0.059	χ^2 /NDF: 313467264.4/23	In: 140179.420 $\pm$ 0.041	χ^2 /NDF: 618286809.4/42
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140189.277 $\pm$ 0.039	χ^2 /NDF: 740695000.2/48
		All: 140184.637 $\pm$ 0.028	χ^2 /NDF: 135901245.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 175.050 $\pm$ 0.046 χ^2 /NDF: 1403218.5/19

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 170.813 $\pm$ 0.042 χ^2 /NDF: 1965890.6/23

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

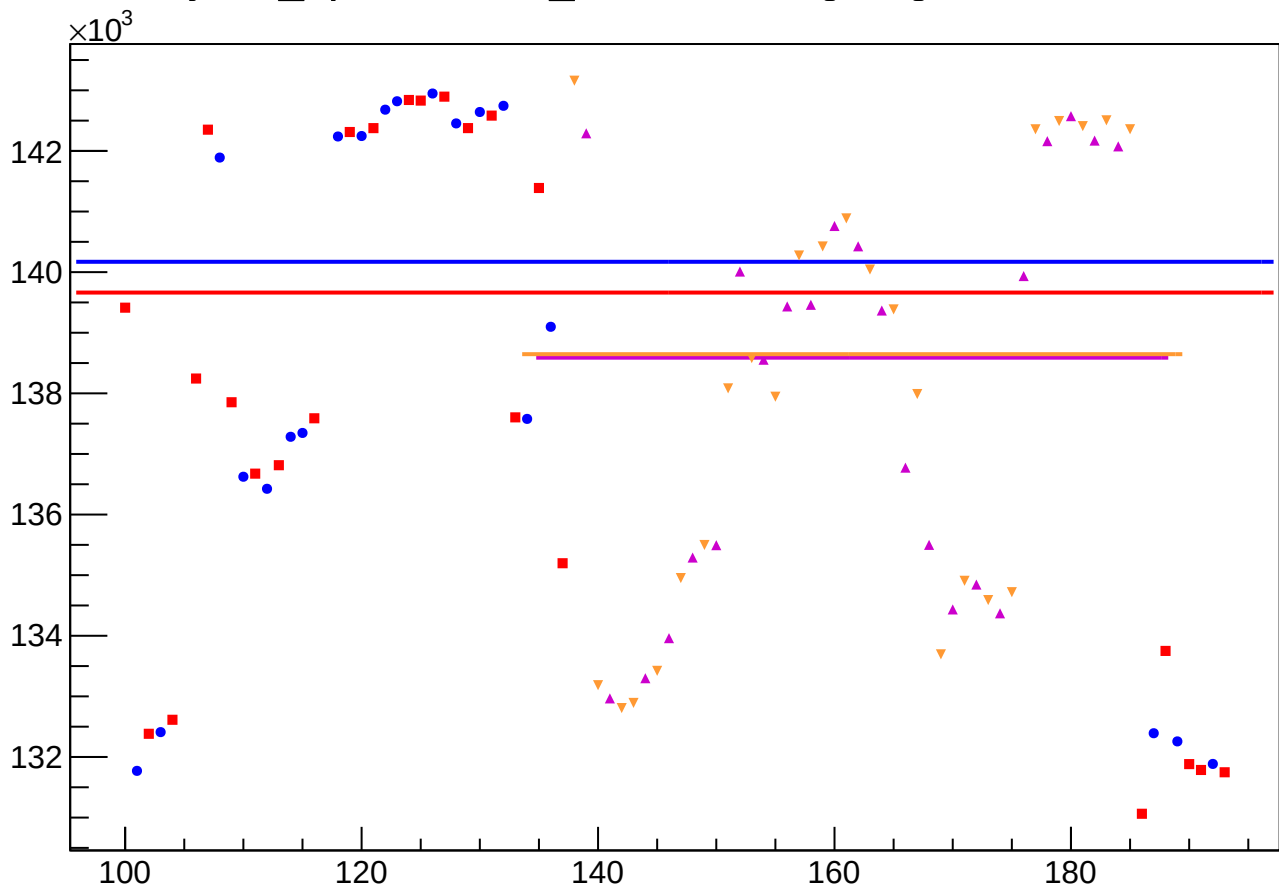
Right: 172.729 $\pm$ 0.031 χ^2 /NDF: 3373771.3/43

In: 199.236 $\pm$ 0.029 χ^2 /NDF: 2745874.8/42

Out: 195.894 $\pm$ 0.027 χ^2 /NDF: 3578878.7/48

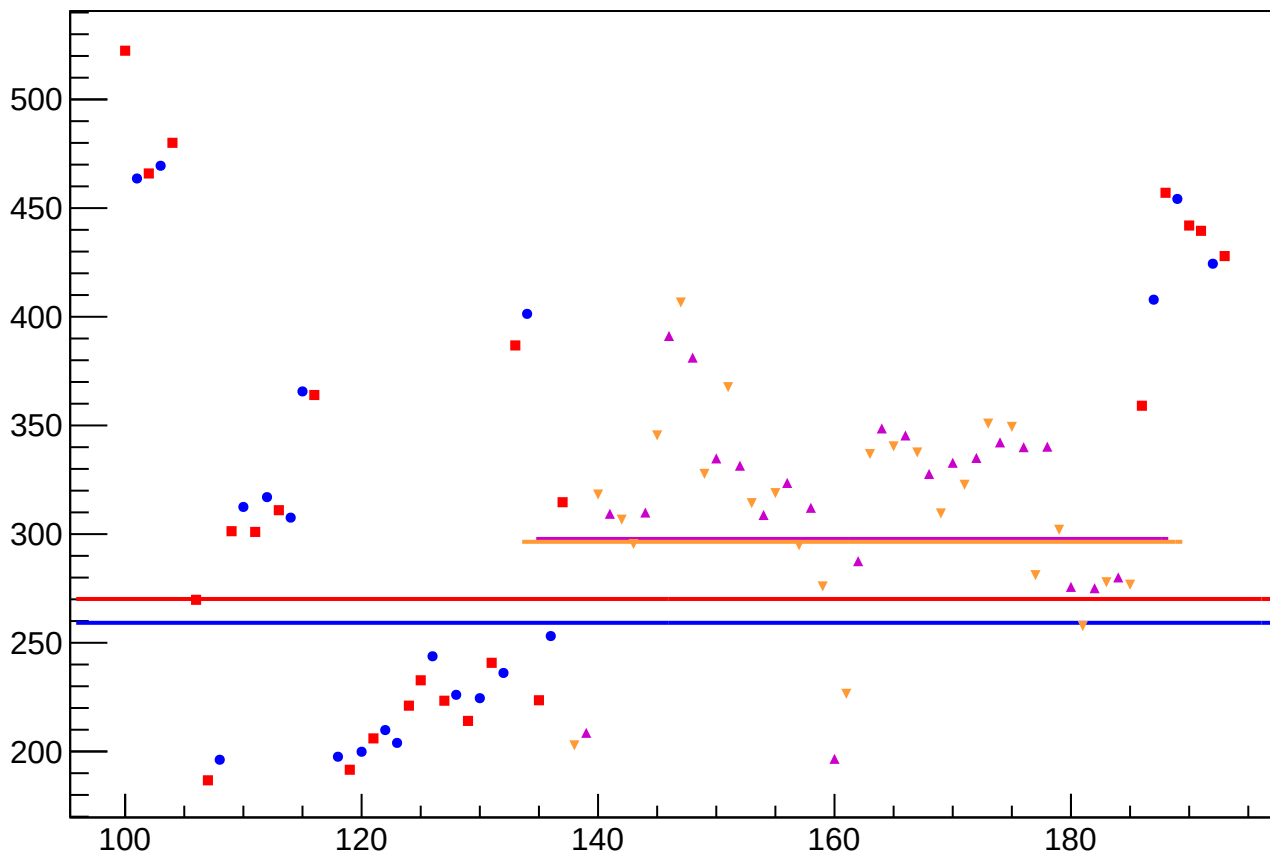
All: 197.467 $\pm$ 0.020 χ^2 /NDF: 6331801.1/91

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140170.839+/-0.096	χ^2/NDF : 1405037986.4/19	Left: 138618.660+/-0.051	χ^2/NDF : 4497021019.3/4
Left Out: 138646.366+/-0.071	χ^2/NDF : 2548637600.4/24	Right: 139907.976+/-0.067	χ^2/NDF : 3149395079.6/4
Right Out: 139663.008+/-0.093	χ^2/NDF : 1729964759.5/23	In: 139172.667+/-0.059	χ^2/NDF : 3523369875.3/42
Left In: 138588.711+/-0.074	χ^2/NDF : 1948065195.1/22	Out: 139019.867+/-0.056	χ^2/NDF : 4354246629.6/4
		All: 139093.398+/-0.041	χ^2/NDF : 788115463

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 259.193 $\pm$ 0.068 χ^2 /NDF: 1393472.4/19

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF: 893579.7/24

Right Out: 270.159 $\pm$ 0.066 χ^2 /NDF: 1806377.1/23

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF: 1061489.5/22

Left: 297.094 $\pm$ 0.036 χ^2 /NDF: 1955397.8/47

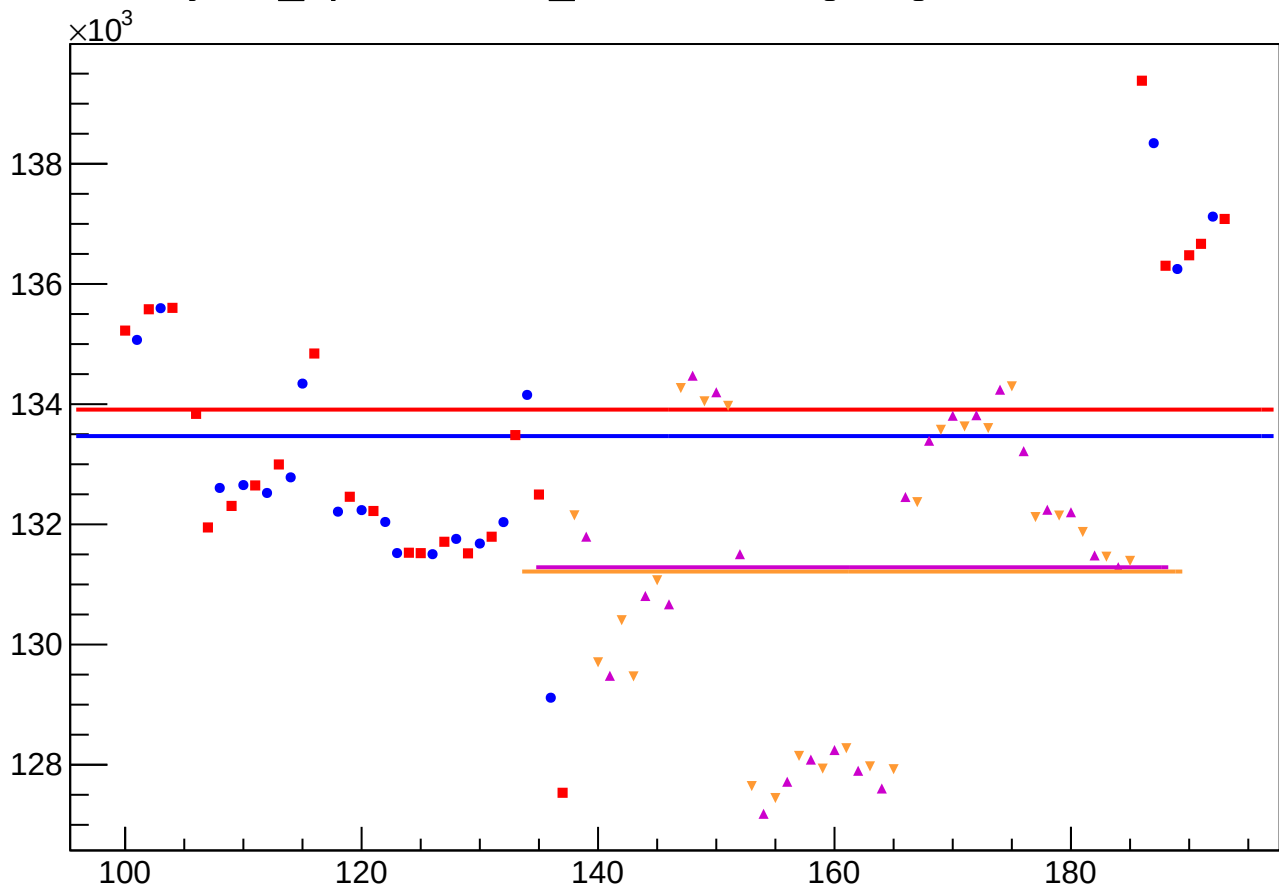
Right: 264.869 $\pm$ 0.047 χ^2 /NDF: 3213271.8/43

In: 283.534 $\pm$ 0.041 χ^2 /NDF: 2657463.2/42

Out: 286.800 $\pm$ 0.040 χ^2 /NDF: 2801244.1/48

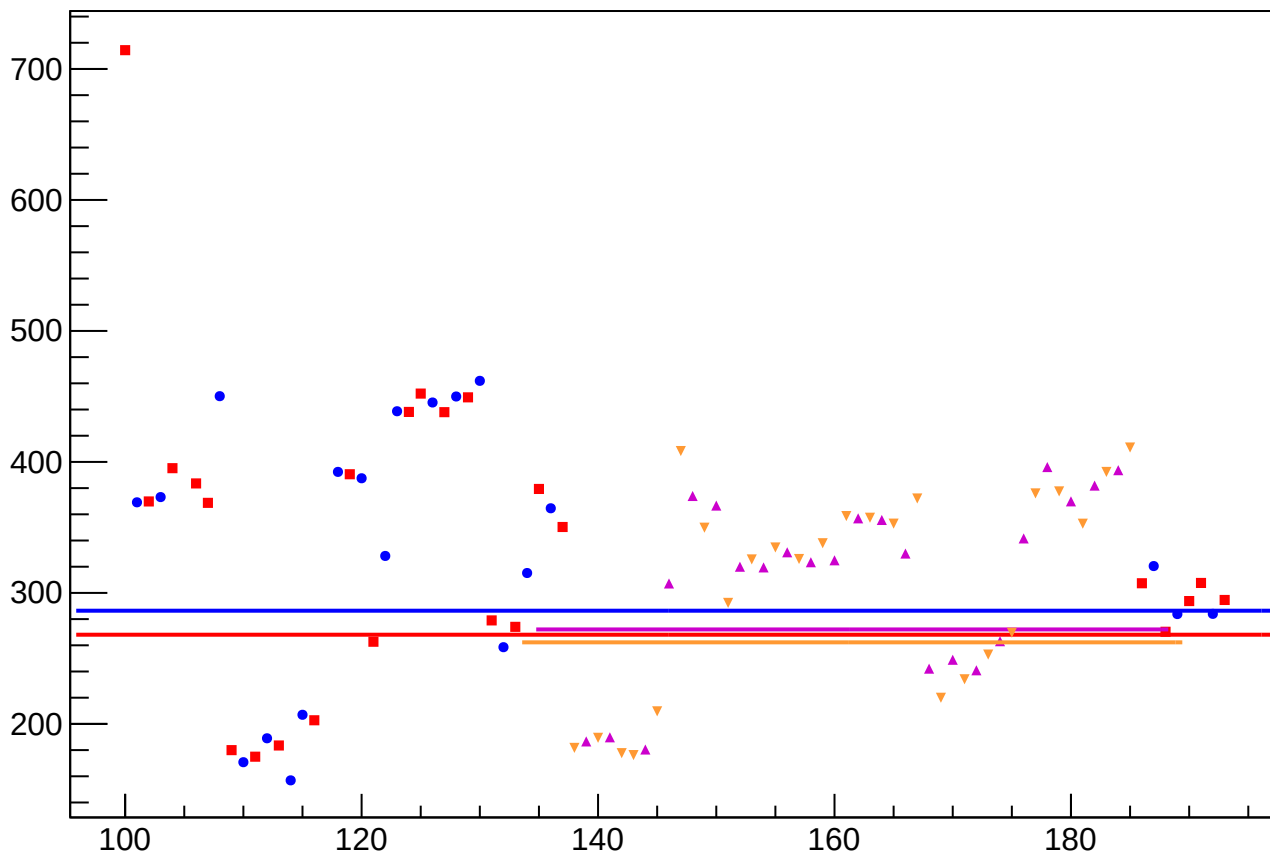
All: 285.229 $\pm$ 0.029 χ^2 /NDF: 5461940.3/91

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133469.017 $\pm$ 0.106	χ^2 /NDF: 448681047.0/19	Left: 131248.166 $\pm$ 0.047	χ^2 /NDF: 2230223308.9/4
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	Right: 133720.802 $\pm$ 0.070	χ^2 /NDF: 1023720523.7/4
Right Out: 133909.721 $\pm$ 0.092	χ^2 /NDF: 565230042.9/23	In: 131923.595 $\pm$ 0.057	χ^2 /NDF: 1803207137.5/42
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132097.976 $\pm$ 0.053	χ^2 /NDF: 2313876543.8/4
		All: 132018.294 $\pm$ 0.039	χ^2 /NDF: 412207992.1/22

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.415 $\pm$ 0.075 χ^2 /NDF: 1517502.8/19

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF:2818169.1/24

Right Out: 268.087 $\pm$ 0.065 χ^2 /NDF: 1660145.0/23

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

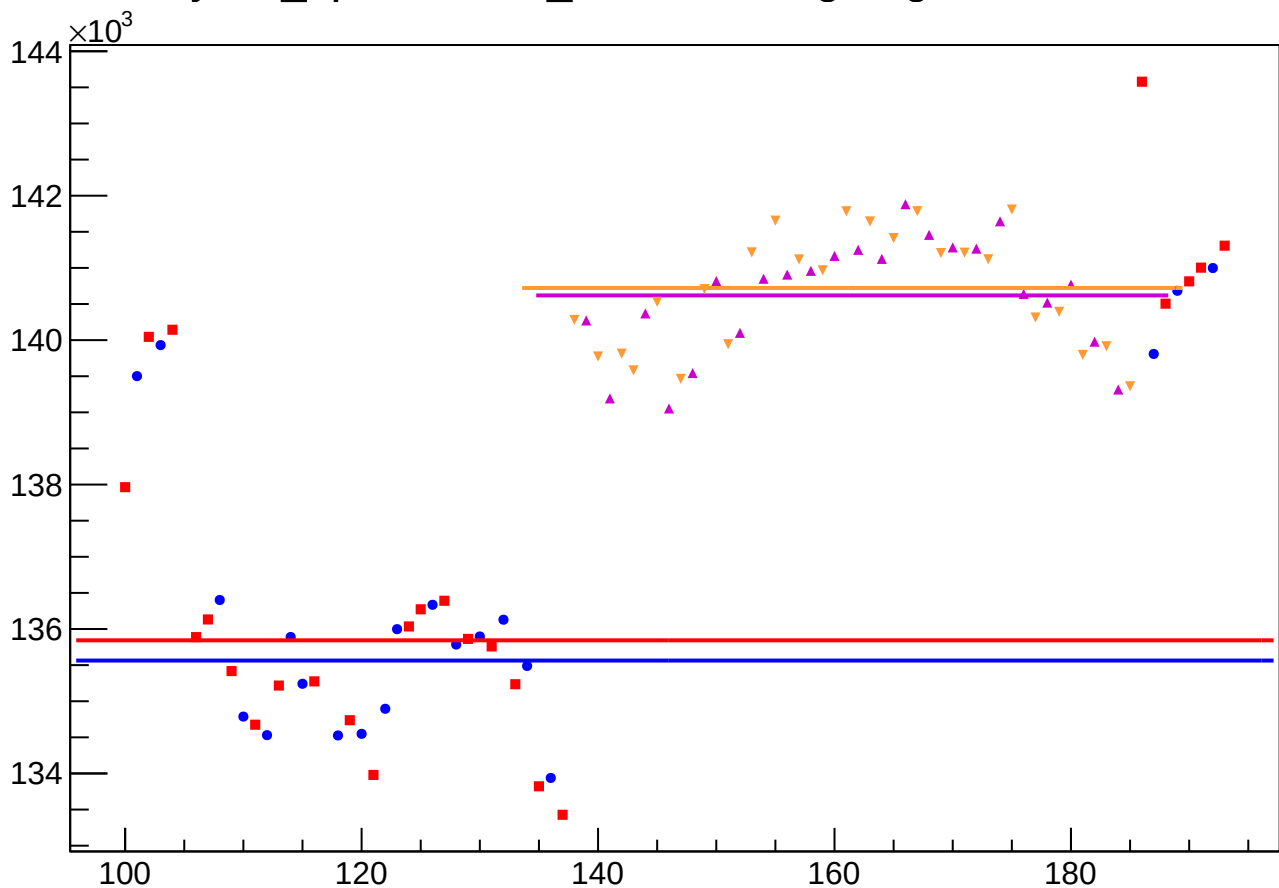
Right: 275.944 $\pm$ 0.049 χ^2 /NDF: 3211580.4/43

In: 276.293 $\pm$ 0.041 χ^2 /NDF:3765019.9/42

Out: 264.169 $\pm$ 0.037 χ^2 /NDF:4483693.9/48

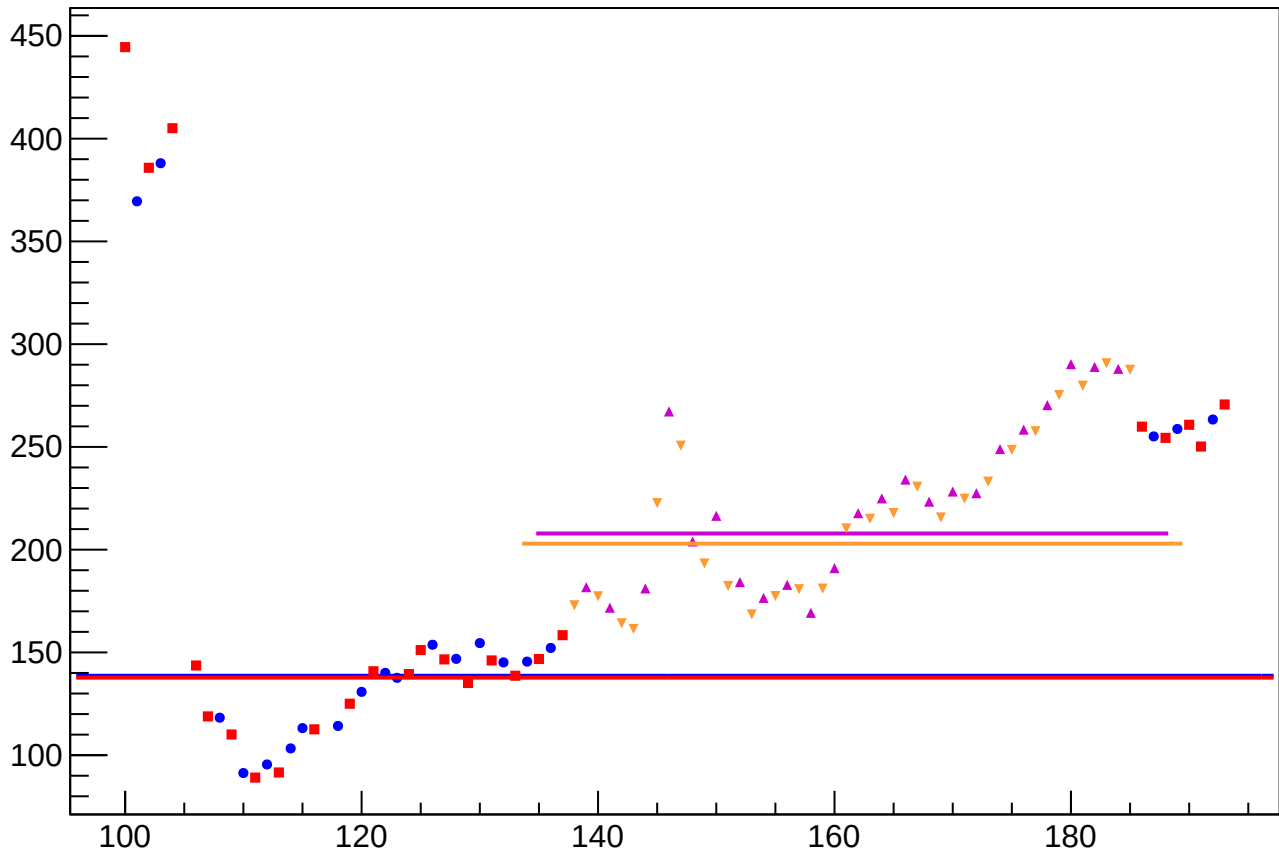
All: 269.709 $\pm$ 0.027 χ^2 /NDF: 8297016.4/91

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135563.411 $\pm$ 0.053	χ^2 /NDF: 1026089884.4/19	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 135714.172 $\pm$ 0.036	χ^2 /NDF: 2663780973.2/19
Right Out: 135843.357 $\pm$ 0.049	χ^2 /NDF: 1622496856.4/23	In: 138170.037 $\pm$ 0.037	χ^2 /NDF: 5970728131.0/42
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138301.681 $\pm$ 0.034	χ^2 /NDF: 6908425117.0/42
		All: 138240.152 $\pm$ 0.025	χ^2 /NDF: 128860130.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.634 $\pm$ 0.037 χ^2 /NDF: 2092147.6/19

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 137.732 $\pm$ 0.034 χ^2 /NDF: 2683084.0/23

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

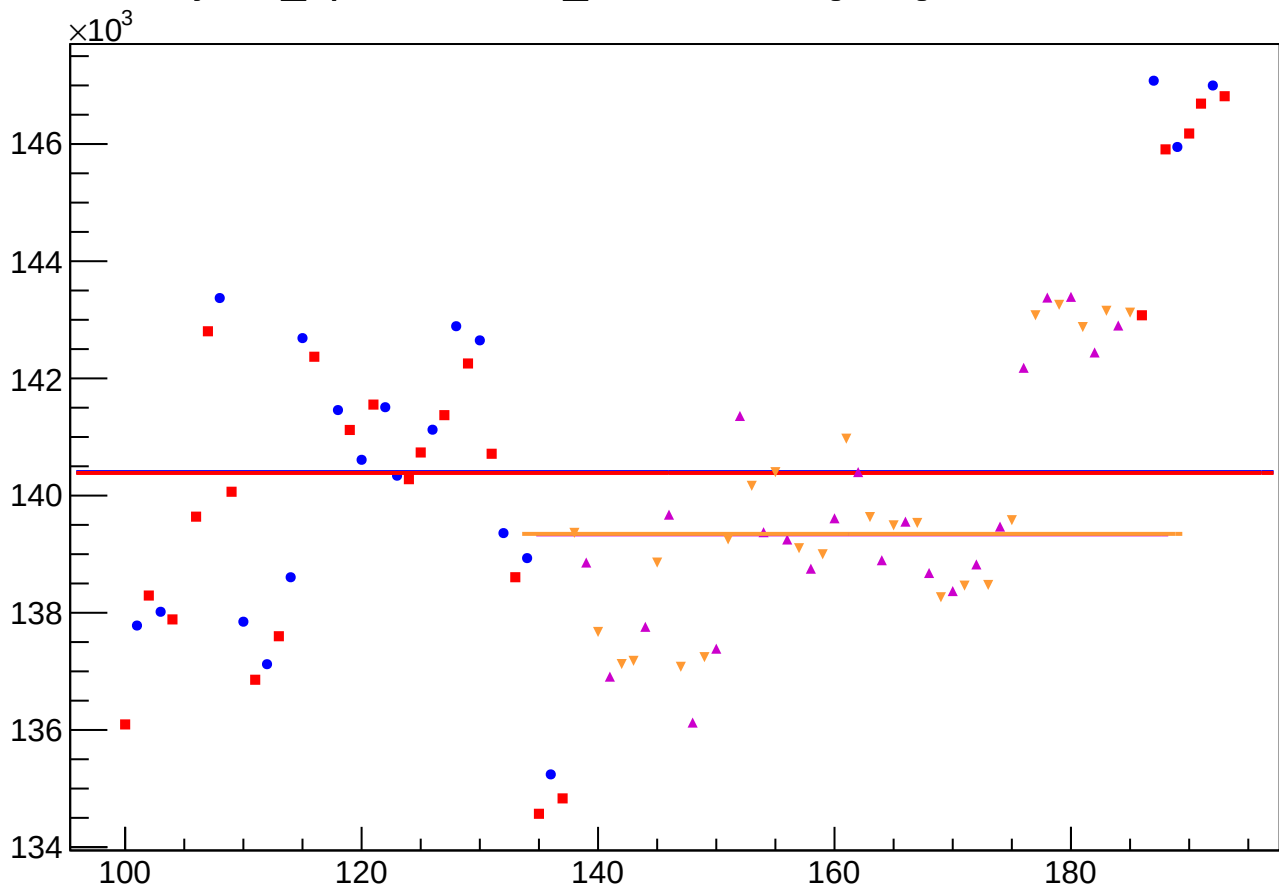
Right: 138.148 $\pm$ 0.025 χ^2 /NDF: 4775547.0/43

In: 174.332 $\pm$ 0.026 χ^2 /NDF:4820996.2/42

Out: 170.588 $\pm$ 0.024 χ^2 /NDF:5535474.4/48

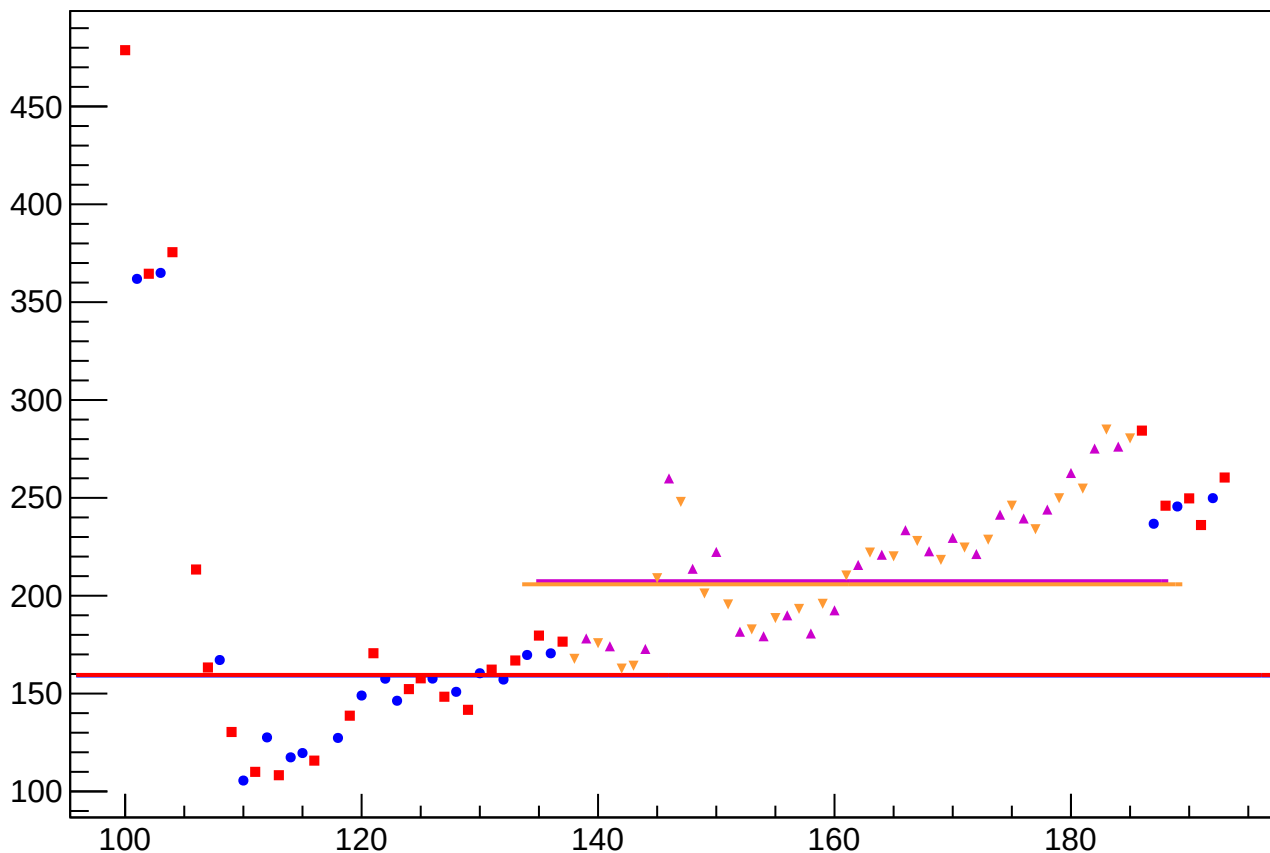
All: 172.338 $\pm$ 0.018 χ^2 /NDF: 10367568.2/92

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140401.112 $\pm$ 0.059	χ^2 /NDF: 2753363209.6/19	Left: 139342.403 $\pm$ 0.035	χ^2 /NDF: 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2 /NDF: 1271172976.7/24	Right: 140393.237 $\pm$ 0.040	χ^2 /NDF: 5693284446.9/4
Right Out: 140386.365 $\pm$ 0.055	χ^2 /NDF: 2939888175.6/23	In: 139788.560 $\pm$ 0.039	χ^2 /NDF: 4231769194.5/42
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139802.938 $\pm$ 0.037	χ^2 /NDF: 4408959645.7/4
		All: 139796.114 $\pm$ 0.027	χ^2 /NDF: 864080177

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 159.228+/-0.042 χ^2/NDF : 1474327.9/19

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 159.525+/-0.039 χ^2/NDF : 2012870.8/23

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

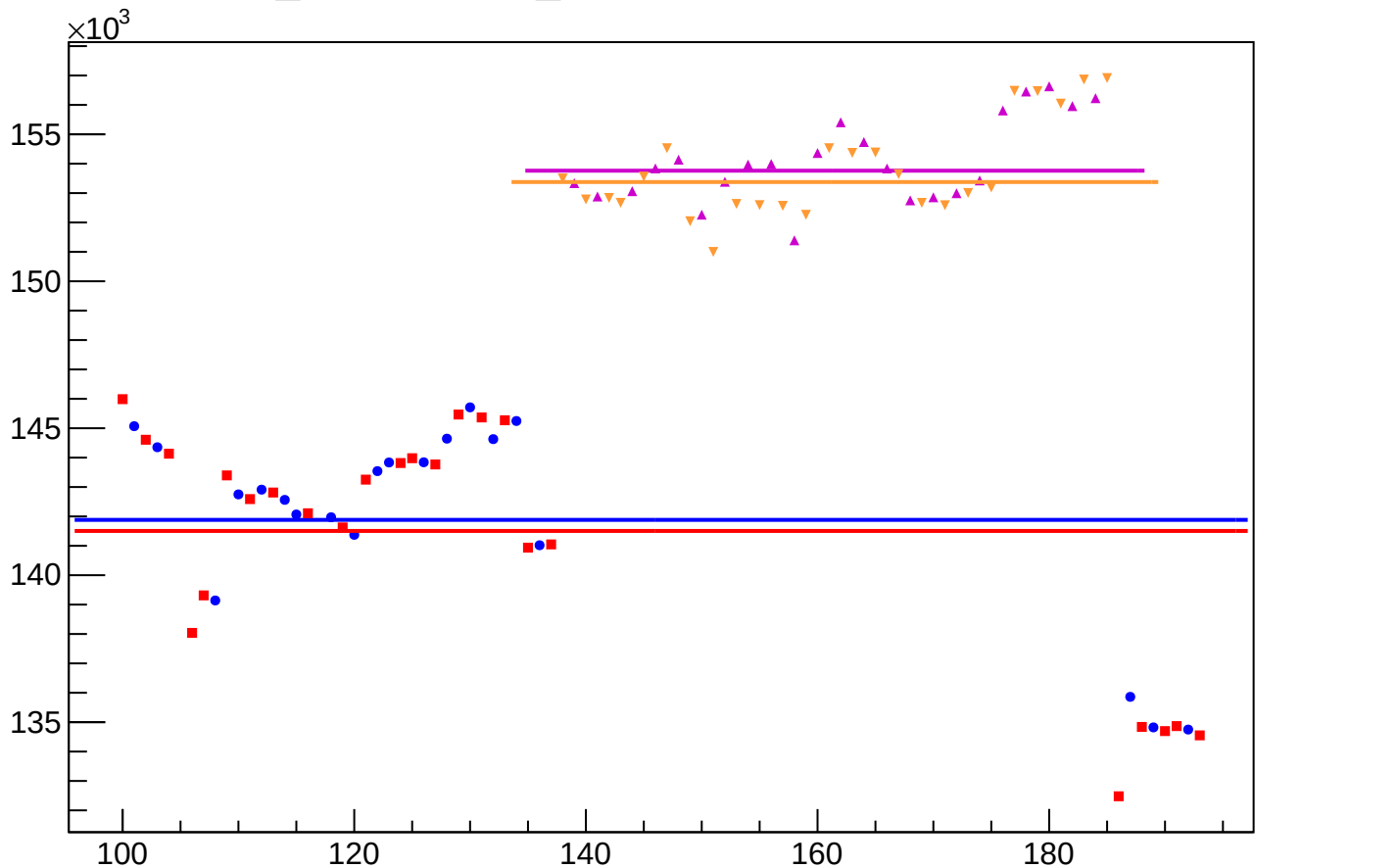
Right: 159.387+/-0.029 χ^2/NDF : 3487225.6/43

In: 186.990+/-0.027 χ^2/NDF : 2937955.6/42

Out: 185.509+/-0.026 χ^2/NDF : 3536613.5/48

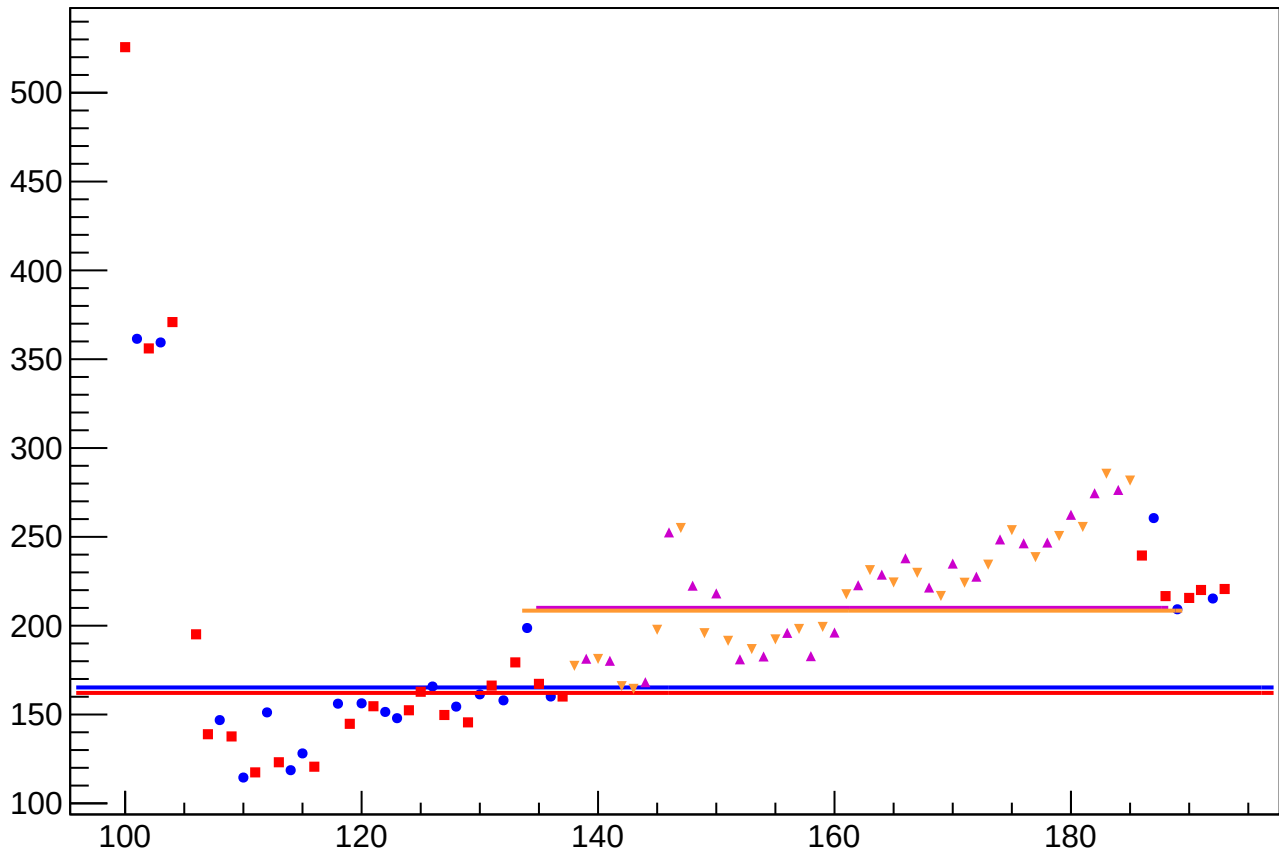
All: 186.212+/-0.019 χ^2/NDF : 6476116.8/91

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141882.674 ± 0.061 $\chi^2/\text{NDF}: 2575546609.3/19$
 Left Out: 153376.698 ± 0.050 $\chi^2/\text{NDF}: 803848095.1/24$
 Right Out: 141506.053 ± 0.055 $\chi^2/\text{NDF}: 3970477552.5/23$
 Left In: 153762.419 ± 0.051 $\chi^2/\text{NDF}: 635075685.0/22$
 All: 148429.271 ± 0.027 $\chi^2/\text{NDF}: 559474036$

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 165.234+/-0.043 χ^2/NDF : 1087033.3/19

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 162.156+/-0.039 χ^2/NDF : 1433101.7/23

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

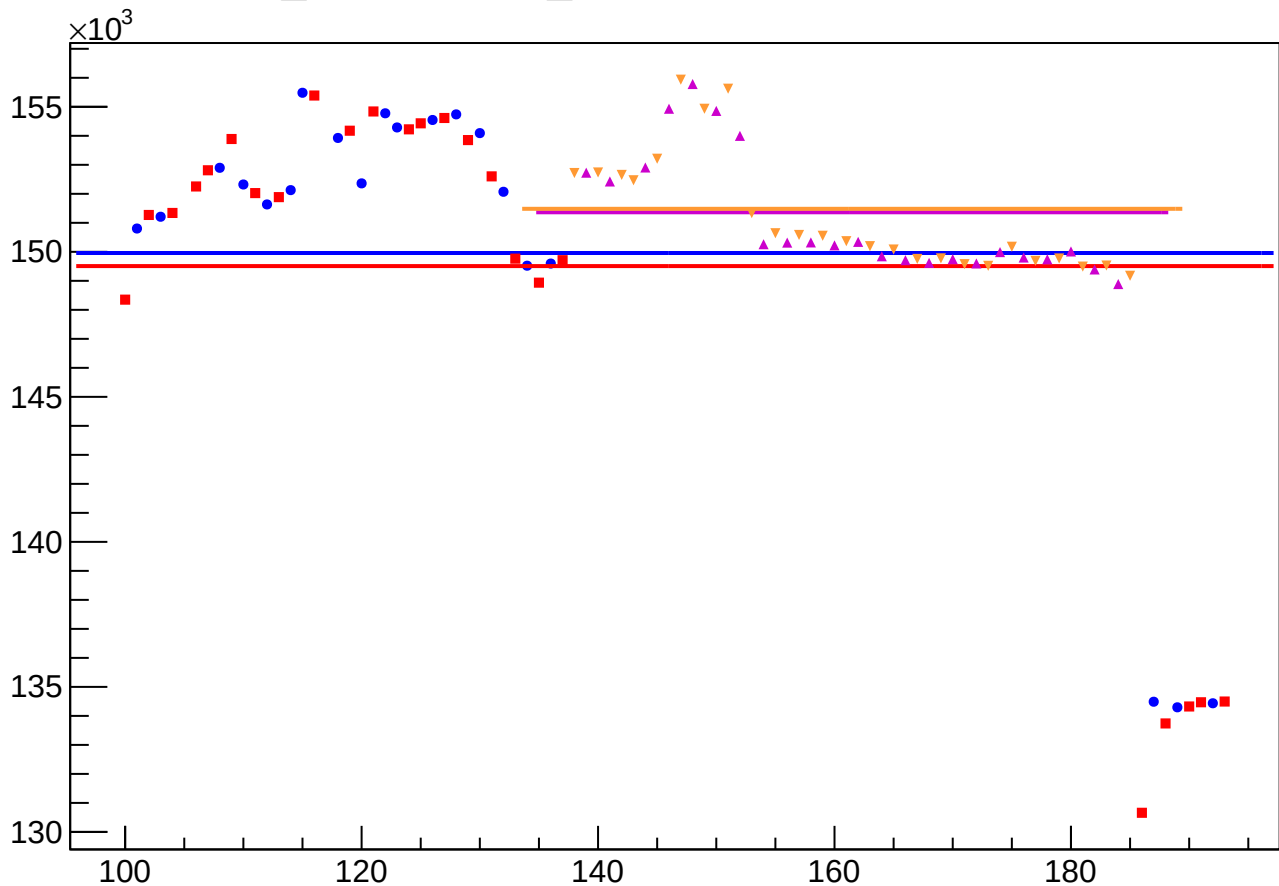
Right: 163.553+/-0.029 χ^2/NDF : 2522937.7/43

In: 191.327+/-0.028 χ^2/NDF : 2422864.5/42

Out: 187.881+/-0.026 χ^2/NDF : 2930959.7/48

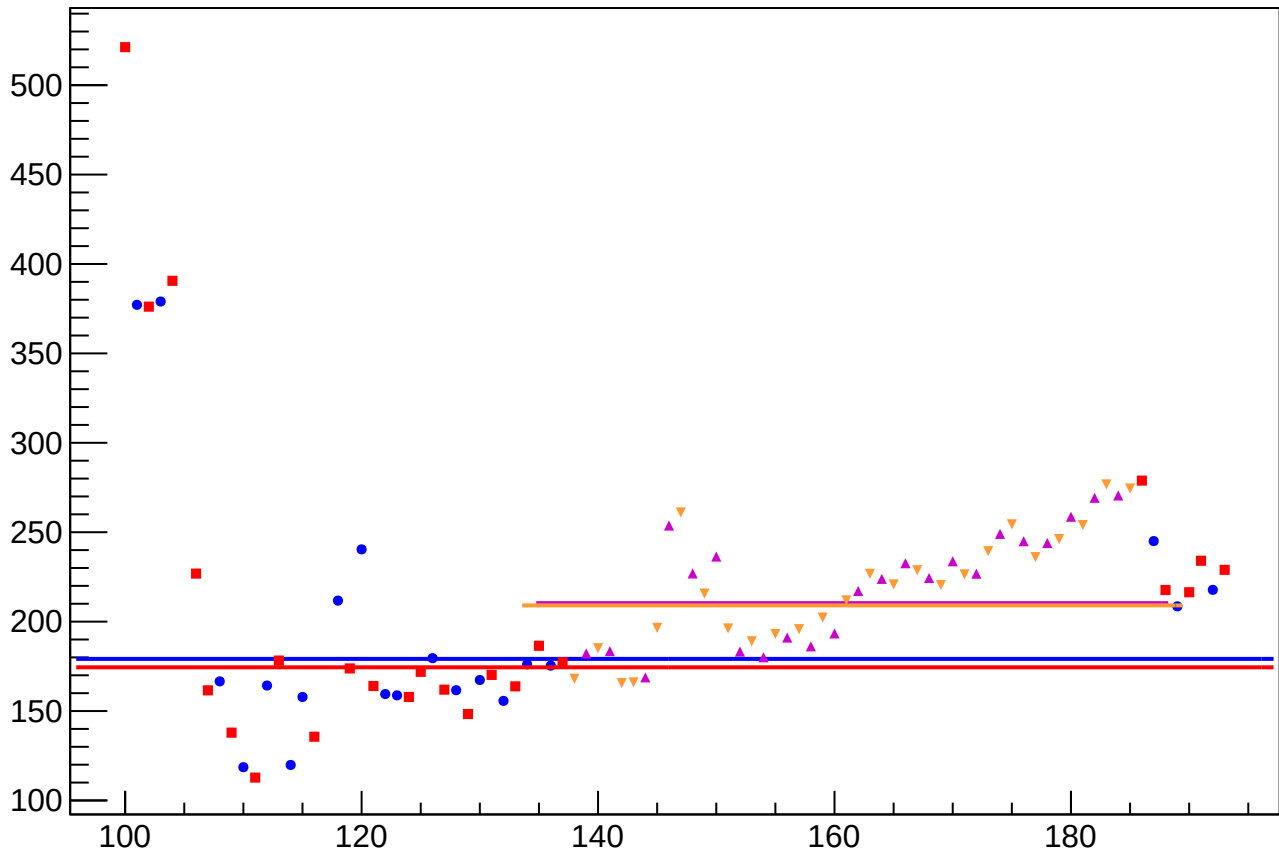
All: 189.499+/-0.019 χ^2/NDF : 5362000.5/91

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 149959.670 $\pm$ 0.067	χ^2 /NDF: 9838992169.2/19	Left: 151425.512 $\pm$ 0.036	χ^2 /NDF: 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2 /NDF: 1481910066.9/24	Right: 149710.319 $\pm$ 0.045	χ^2 /NDF: 25227285926.3/19
Right Out: 149508.392 $\pm$ 0.060	χ^2 /NDF: 15363089654.2/23	In: 150841.383 $\pm$ 0.041	χ^2 /NDF: 11537830301.3/4
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: 150685.156 $\pm$ 0.038	χ^2 /NDF: 17487819057.4/19
		All: 150758.300 $\pm$ 0.028	χ^2 /NDF: 290334694.0/4

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 179.170 $\pm$ 0.047 χ^2 /NDF: 1057917.3/19

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 174.455 $\pm$ 0.043 χ^2 /NDF: 1406358.3/23

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

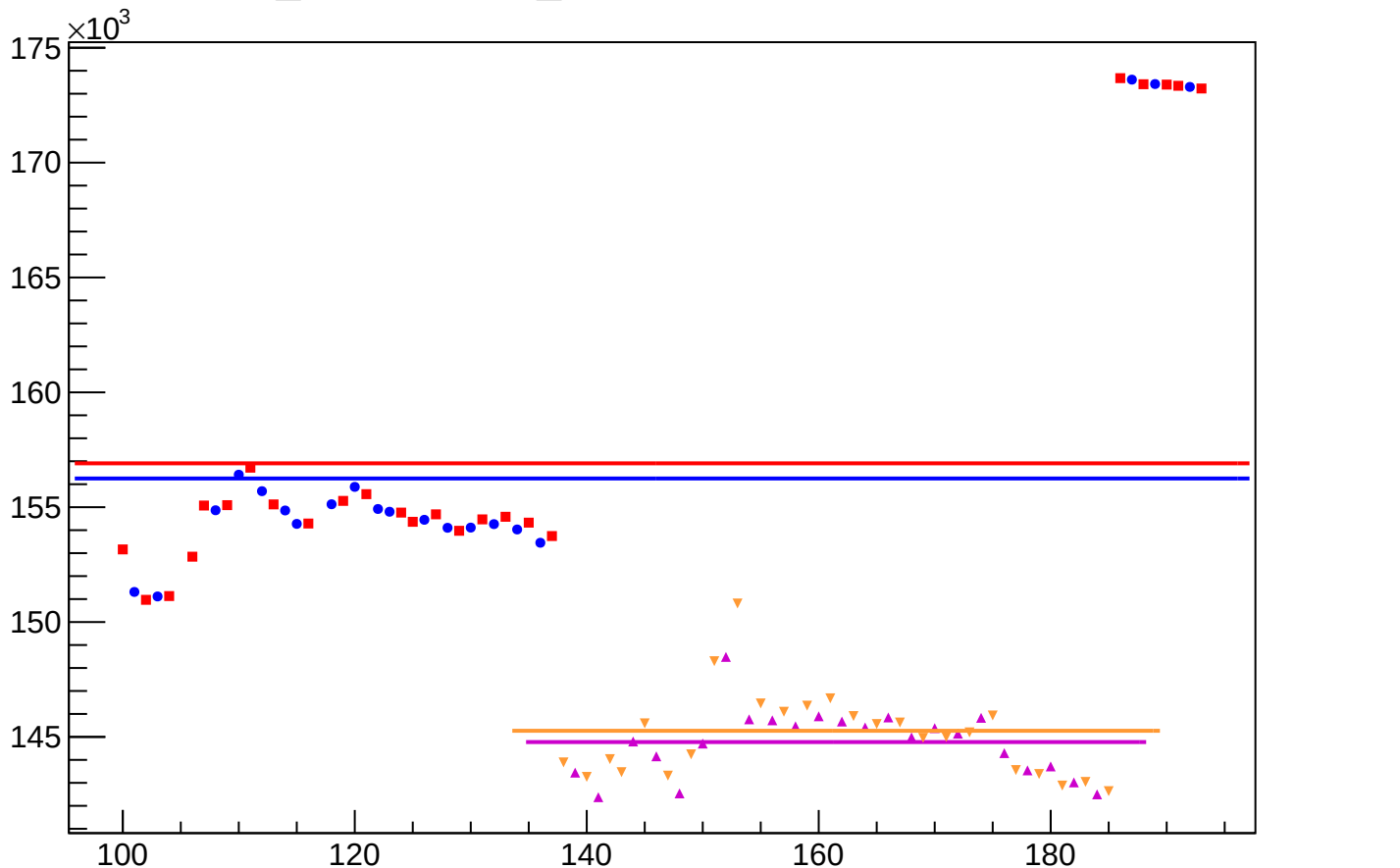
Right: 176.565 $\pm$ 0.032 χ^2 /NDF: 2469777.5/43

In: 198.755 $\pm$ 0.029 χ^2 /NDF: 2009173.9/42

Out: 195.083 $\pm$ 0.027 χ^2 /NDF: 2509672.4/48

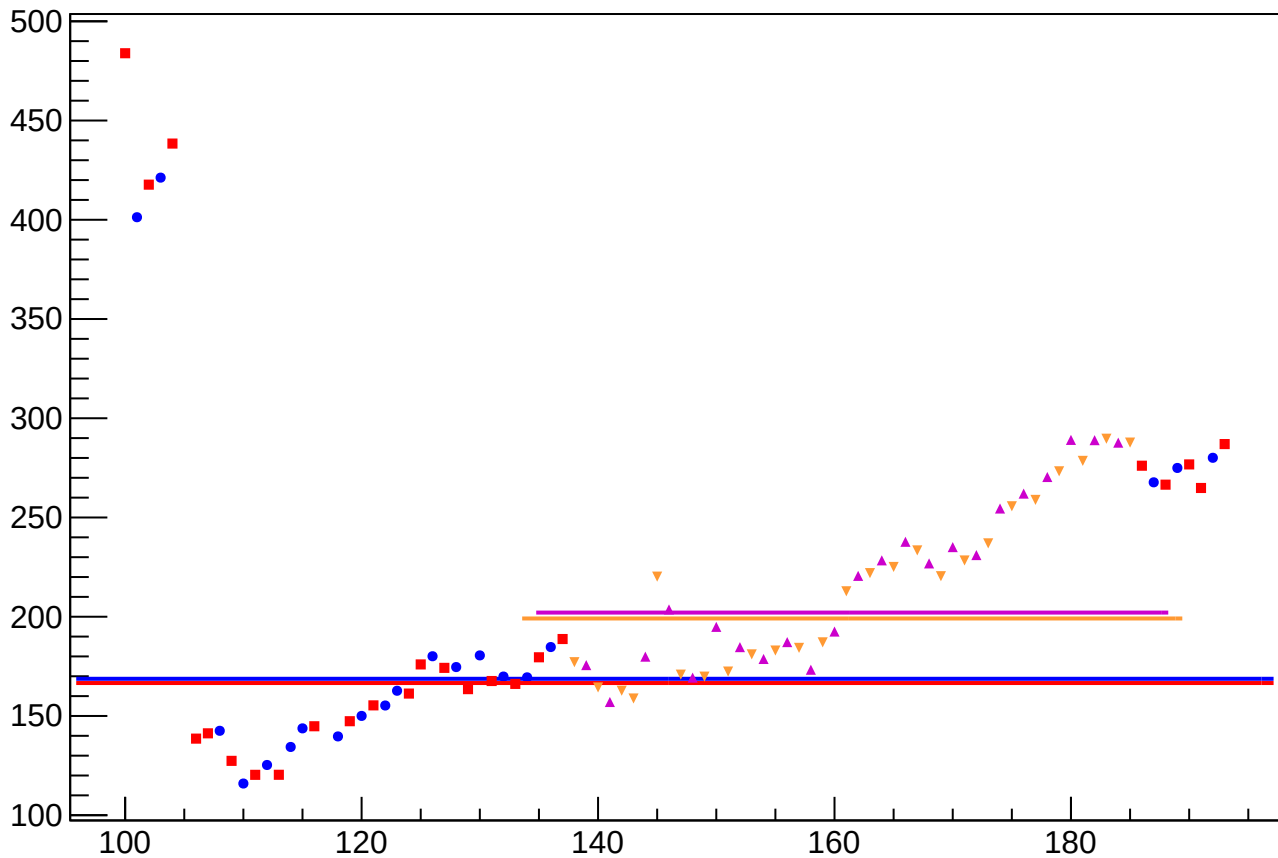
All: 196.802 $\pm$ 0.020 χ^2 /NDF: 4527484.0/91

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 156249.468 $\pm$ 0.063	χ^2 /NDF: 6614599531.0/19	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/19
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 156609.514 $\pm$ 0.042	χ^2 /NDF: 17421353749.0/24
Right Out: 156909.666 $\pm$ 0.057	χ^2 /NDF: 10746560517.3/23	In: 149175.738 $\pm$ 0.039	χ^2 /NDF: 28085034601.5/23
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 149988.814 $\pm$ 0.037	χ^2 /NDF: 36941191583.2/22
		All: 149607.833 $\pm$ 0.027	χ^2 /NDF: 652582313.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 168.734 $\pm$ 0.044 χ^2 /NDF: 1641571.1/19

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 166.594 $\pm$ 0.041 χ^2 /NDF: 2066533.5/23

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

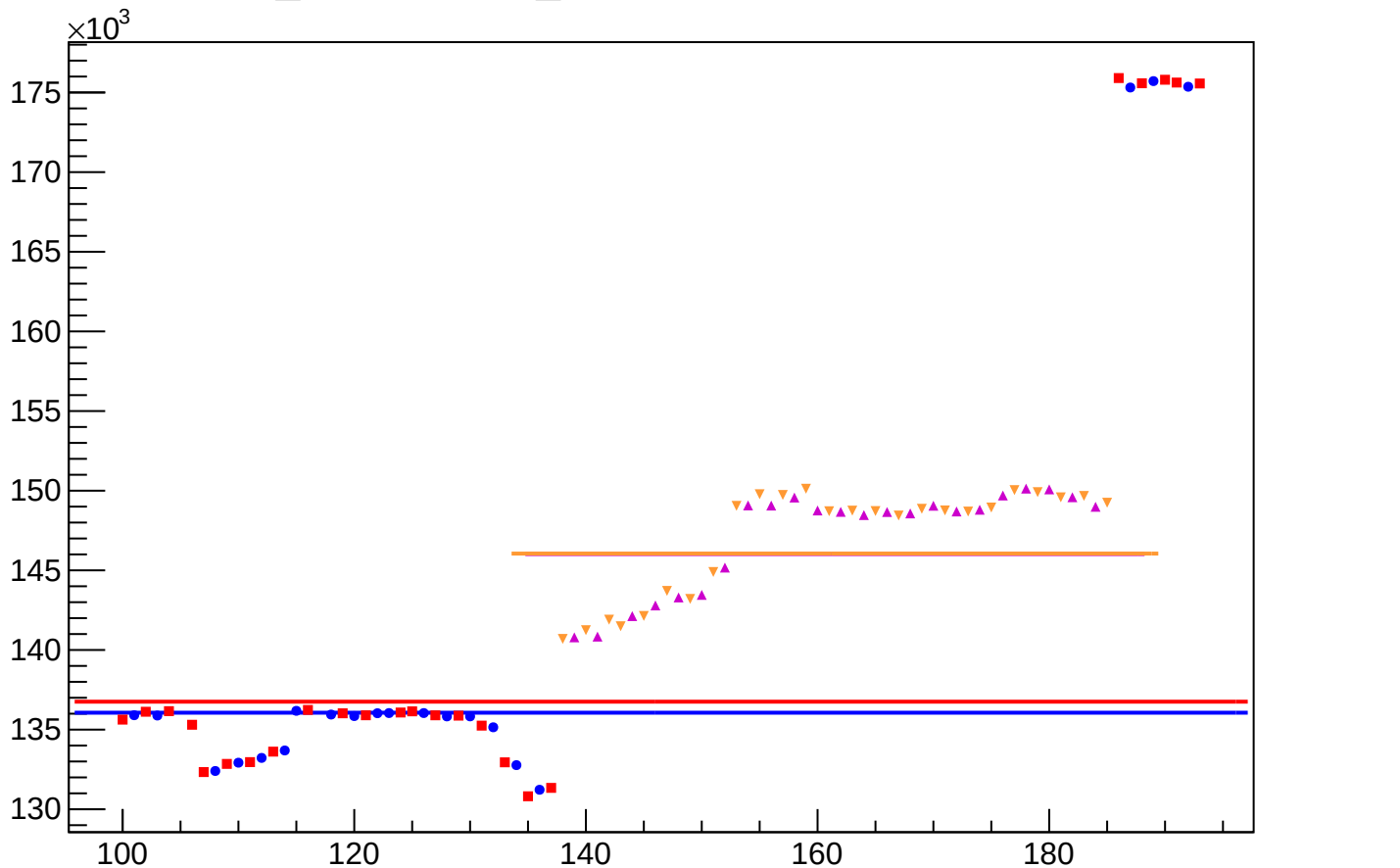
Right: 167.567 $\pm$ 0.030 χ^2 /NDF: 3709370.4/43

In: 189.299 $\pm$ 0.028 χ^2 /NDF:3046815.9/42

Out: 185.927 $\pm$ 0.026 χ^2 /NDF:3600776.7/48

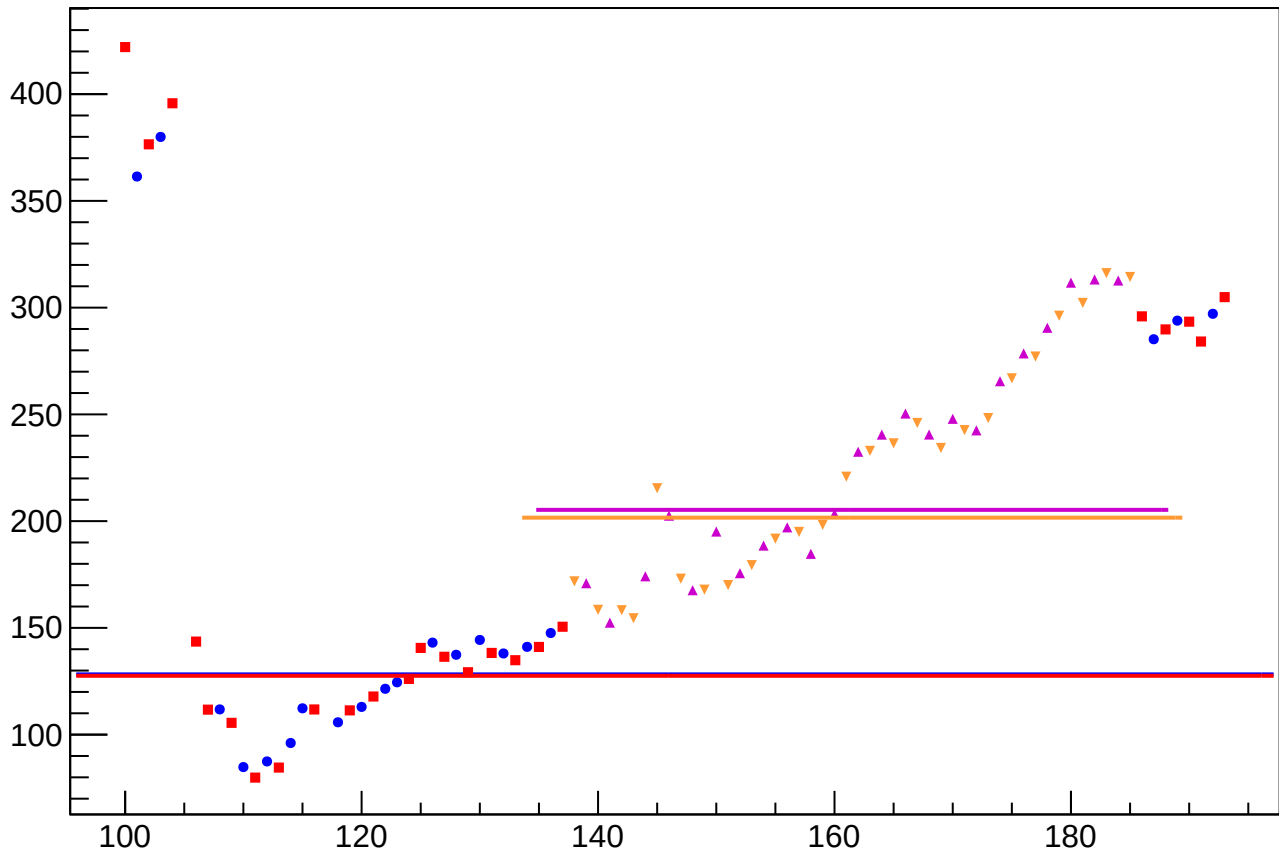
All: 187.507 $\pm$ 0.019 χ^2 /NDF: 6655574.9/91

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 136062.394 $\pm$ 0.049	χ^2 /NDF: 29763326092.7/19	Left: 146036.626 $\pm$ 0.035	χ^2 /NDF: 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2 /NDF: 5403300123.1/24	Right: 136432.918 $\pm$ 0.034	χ^2 /NDF: 78895539953.0/4
Right Out: 136754.030 $\pm$ 0.046	χ^2 /NDF: 49026797261.9/23	In: 140906.993 $\pm$ 0.035	χ^2 /NDF: 54198725385.3/4
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 141165.745 $\pm$ 0.033	χ^2 /NDF: 73899743950.5/4
		All: 141044.121 $\pm$ 0.024	χ^2 /NDF: 128126894.0/4

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 128.218 $\pm$ 0.035 χ^2 /NDF: 2489223.2/19

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 127.563 $\pm$ 0.032 χ^2 /NDF: 3298876.8/23

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

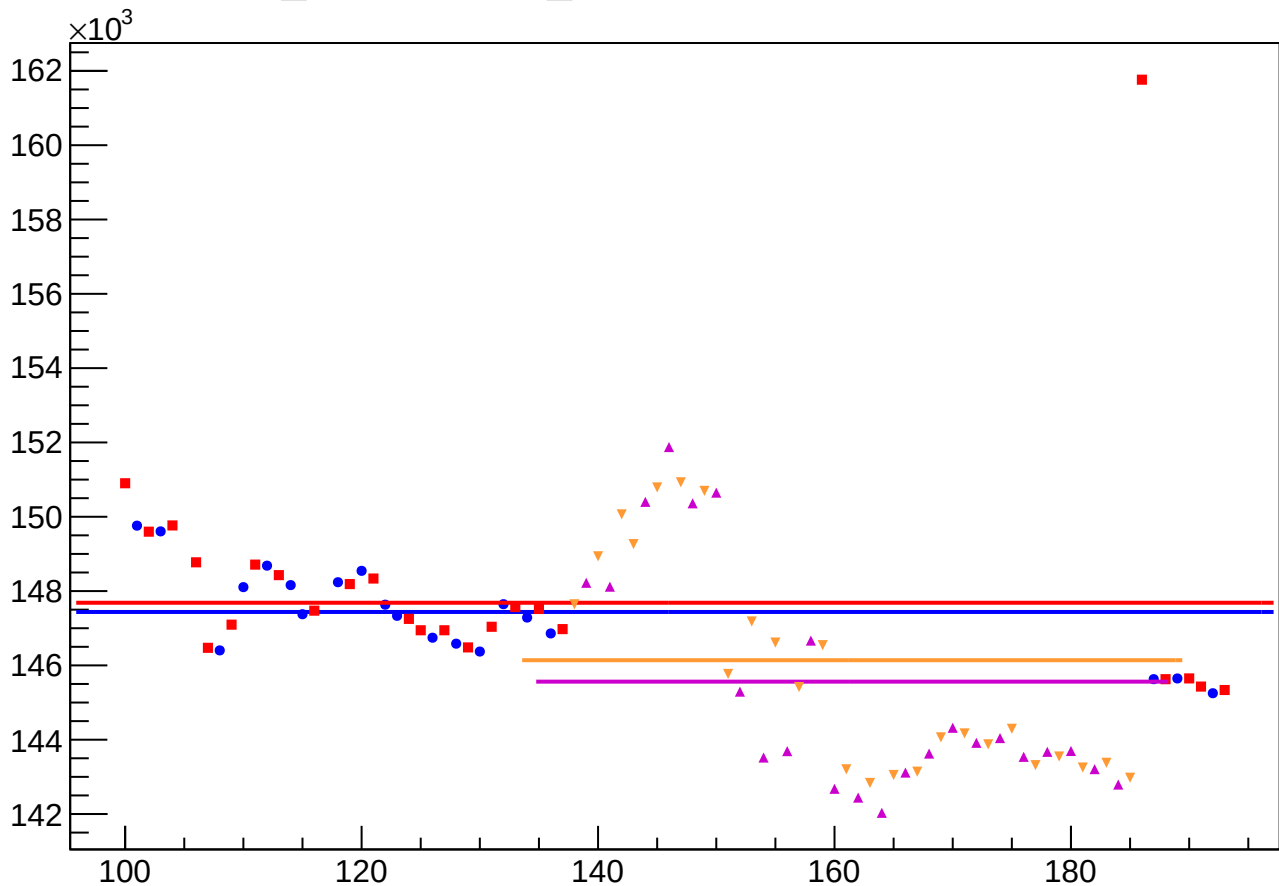
Right: 127.867 $\pm$ 0.024 χ^2 /NDF: 5788289.2/43

In: 165.713 $\pm$ 0.025 χ^2 /NDF:6291904.8/42

Out: 162.708 $\pm$ 0.024 χ^2 /NDF:7359648.3/48

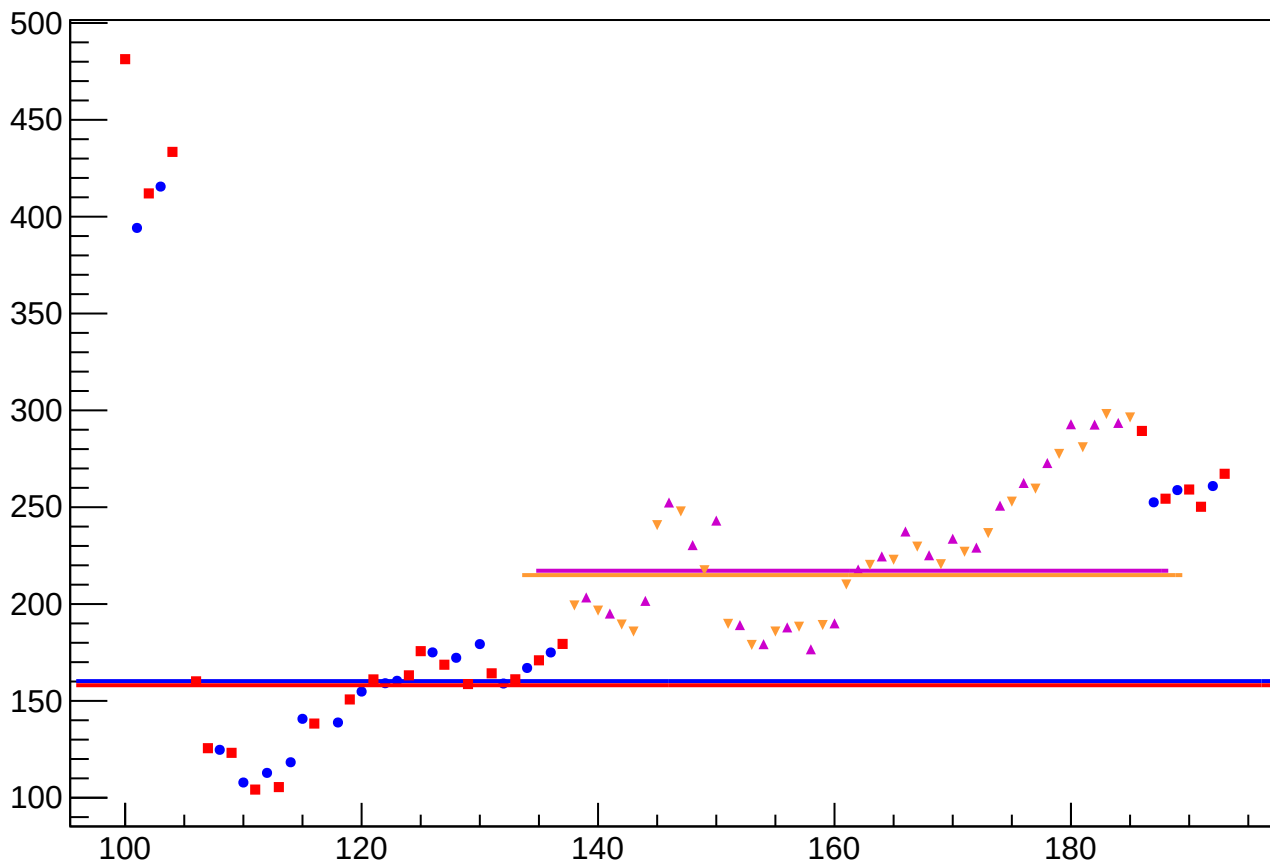
All: 164.121 $\pm$ 0.017 χ^2 /NDF: 13659222.3/92

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147437.686 $\pm$ 0.060	χ^2/NDF : 301004541.0/19	Left: 145862.850 $\pm$ 0.037	χ^2/NDF : 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2/NDF : 2699546907.6/24	Right: 147572.512 $\pm$ 0.041	χ^2/NDF : 1565780762.5/4
Right Out: 147685.771 $\pm$ 0.055	χ^2/NDF : 1255474390.2/23	In: 146386.018 $\pm$ 0.040	χ^2/NDF : 3904101587.1/42
Left In: 145562.386 $\pm$ 0.053	χ^2/NDF : 3054641996.0/22	Out: 146853.397 $\pm$ 0.037	χ^2/NDF : 4381155733.6/4
		All: 146634.206 $\pm$ 0.027	χ^2/NDF : 835870509.0/4

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 160.216+/-0.042 χ^2/NDF : 1748491.1/19

Left Out: 214.945+/-0.036 χ^2/NDF : 728515.5/24

Right Out: 158.085+/-0.039 χ^2/NDF : 2292998.5/23

Left In: 217.203+/-0.038 χ^2/NDF : 764798.3/22

Left: 216.027+/-0.026 χ^2/NDF : 1495200.1/47

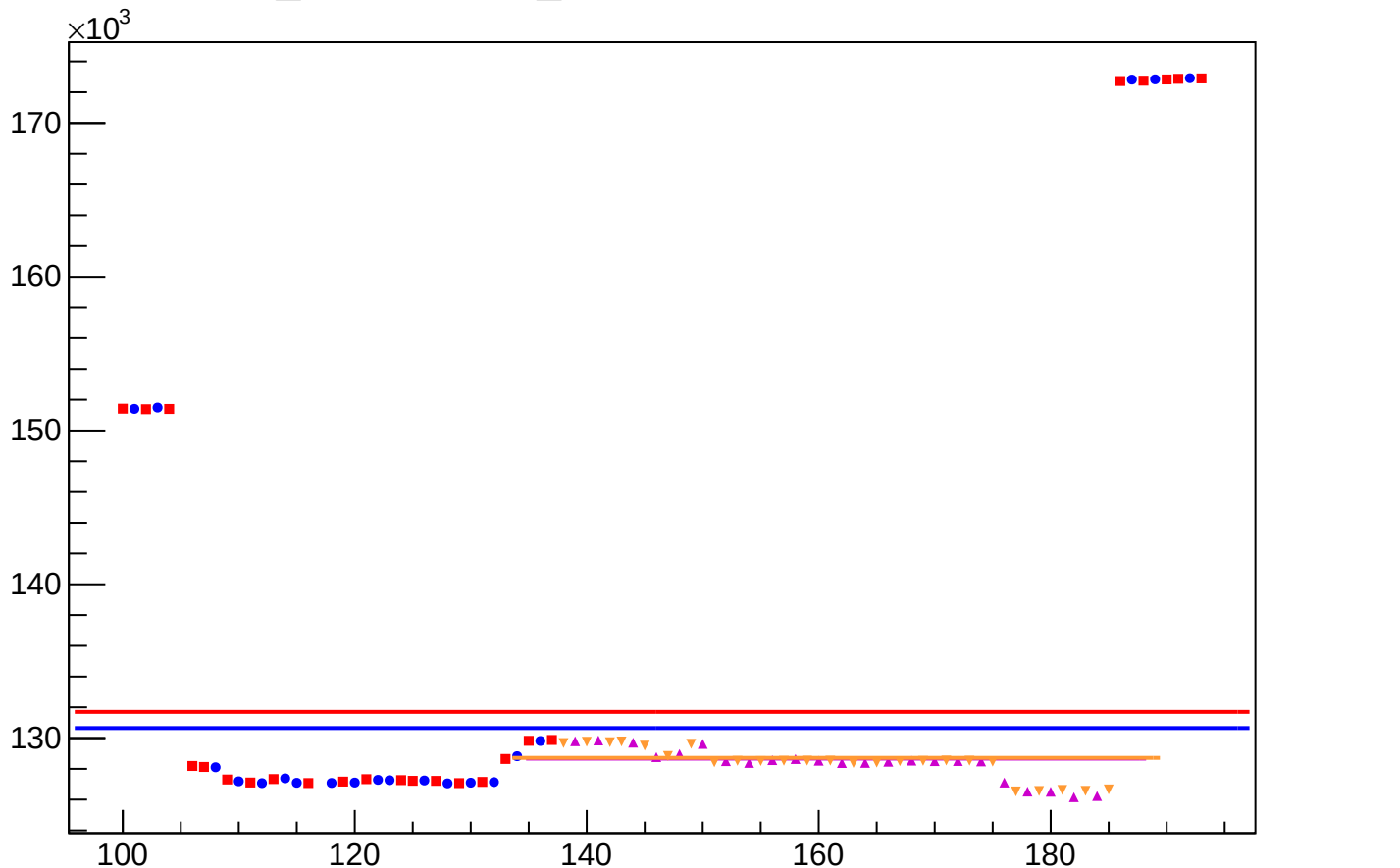
Right: 159.058+/-0.029 χ^2/NDF : 4042862.7/43

In: 192.175+/-0.028 χ^2/NDF : 3526231.8/42

Out: 188.690+/-0.026 χ^2/NDF : 4173706.2/48

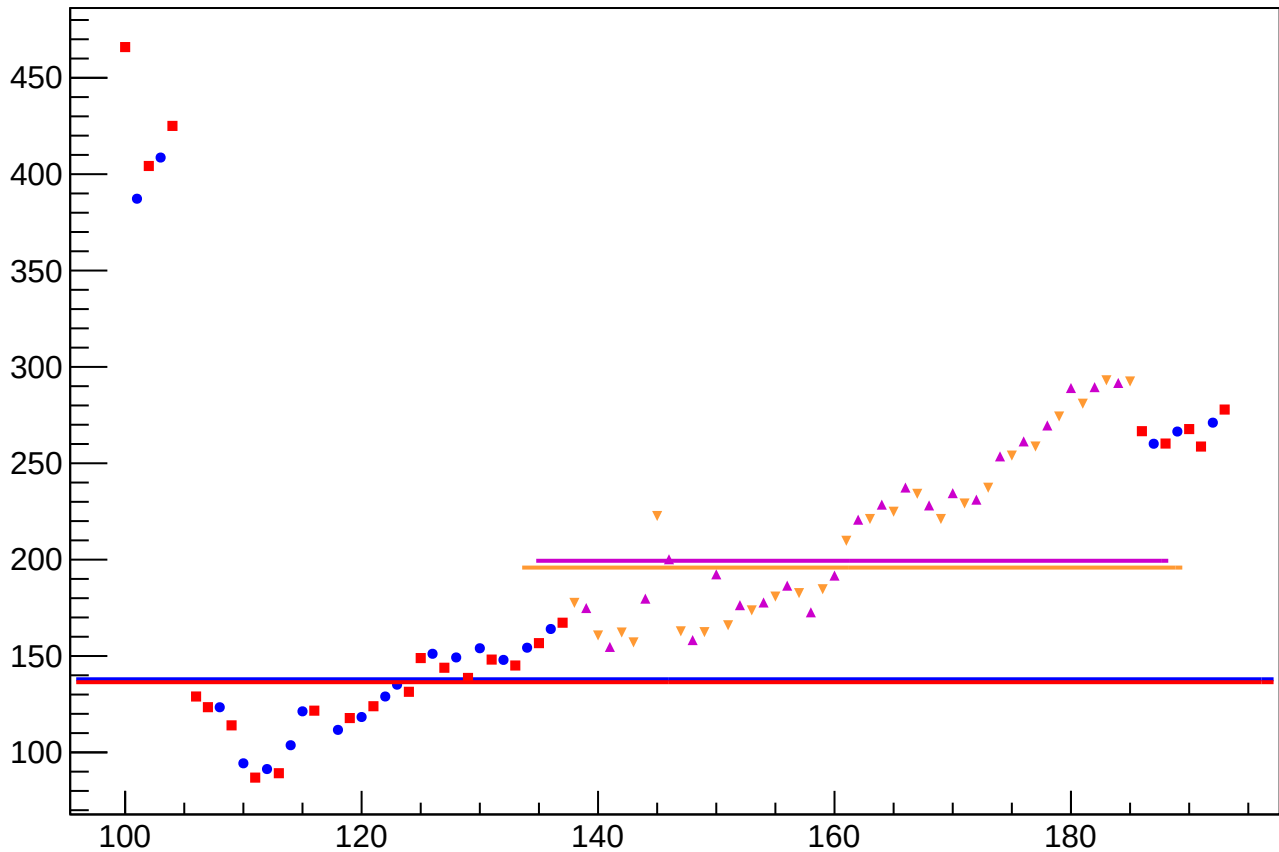
All: 190.324+/-0.019 χ^2/NDF : 7708104.1/91

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 130649.619+/-0.053	χ^2/NDF : 44615945813.5/19	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 131221.881+/-0.036	χ^2/NDF : 115272613438
Right Out: 131703.039+/-0.048	χ^2/NDF : 70438744437.2/23	In: 129588.092+/-0.036	χ^2/NDF : 45709812641.9/4
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 130160.641+/-0.034	χ^2/NDF : 72768762902.1
		All: 129893.328+/-0.024	χ^2/NDF : 118614563

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.929 $\pm$ 0.037 χ^2 /NDF: 2254410.2/19

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 136.417 $\pm$ 0.034 χ^2 /NDF: 2865771.6/23

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

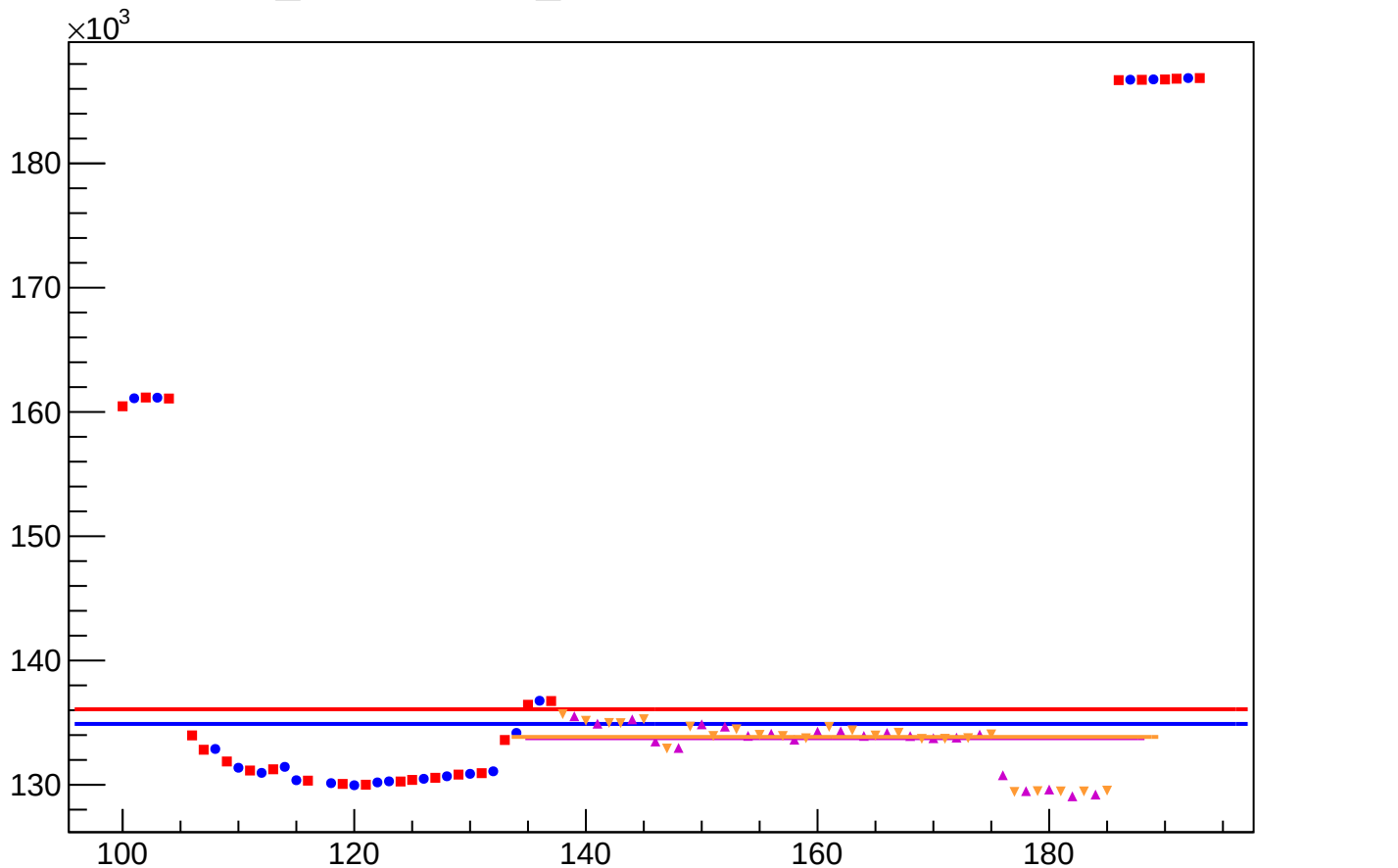
Right: 137.108 $\pm$ 0.025 χ^2 /NDF: 5121079.4/43

In: 170.849 $\pm$ 0.025 χ^2 /NDF:4883508.5/42

Out: 167.108 $\pm$ 0.024 χ^2 /NDF:5748460.7/48

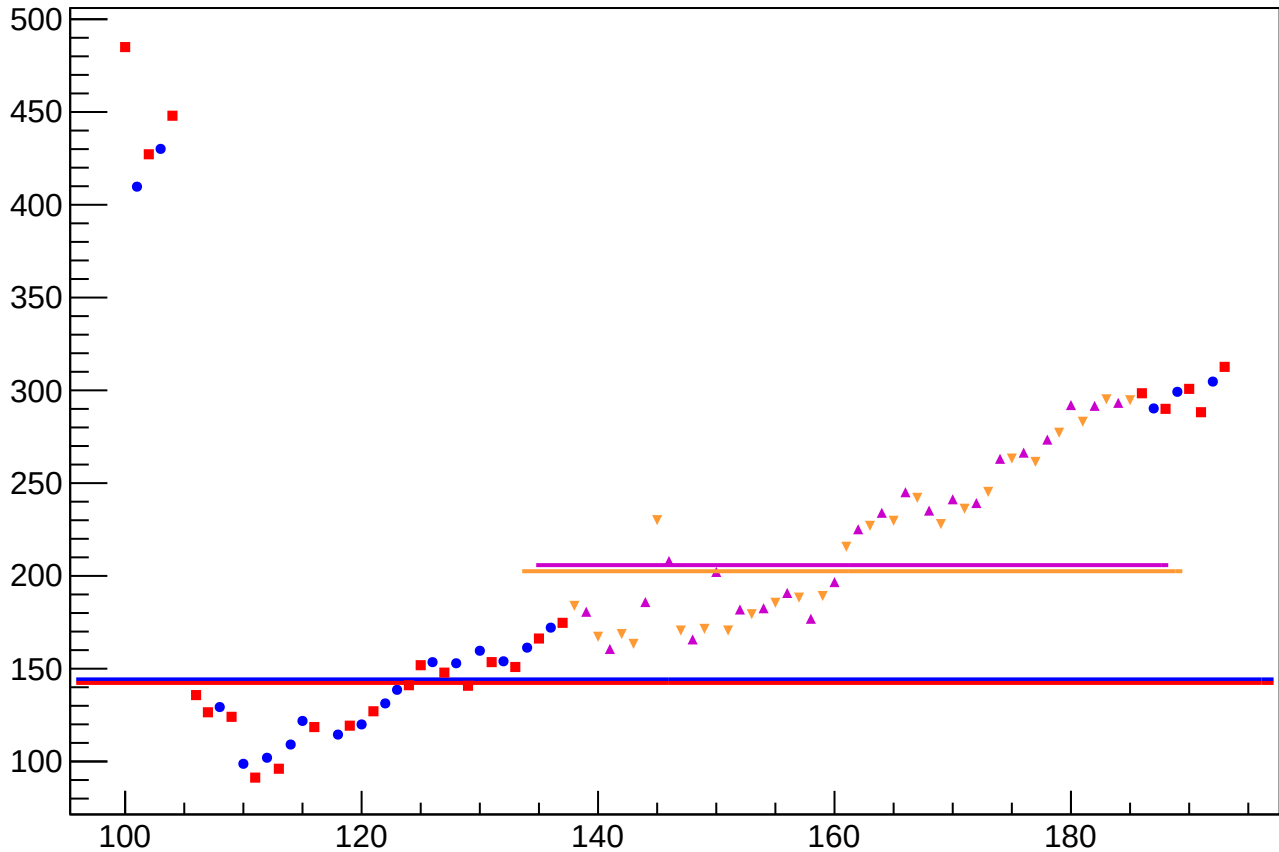
All: 168.854 $\pm$ 0.017 χ^2 /NDF: 10643582.5/92

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 134897.178 $\pm$ 0.055	χ^2 /NDF: 54670394578.7/19	Left: 133802.452 $\pm$ 0.035	χ^2 /NDF: 2036267179.3/4
Left Out: 133850.586 $\pm$ 0.048	χ^2 /NDF: 1080107831.1/24	Right: 135538.503 $\pm$ 0.037	χ^2 /NDF: 140907132639
Right Out: 136077.770 $\pm$ 0.051	χ^2 /NDF: 85987706949.3/23	In: 134273.264 $\pm$ 0.037	χ^2 /NDF: 55859952901.0/4
Left In: 133749.630 $\pm$ 0.051	χ^2 /NDF: 954069486.7/22	Out: 134911.421 $\pm$ 0.035	χ^2 /NDF: 88083909156.9
		All: 134613.120 $\pm$ 0.025	χ^2 /NDF: 14410019

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 144.229 $\pm$ 0.039 χ^2 /NDF: 2322189.1/19

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 142.332 $\pm$ 0.036 χ^2 /NDF: 3018174.2/23

Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2 /NDF: 2310735.8/47

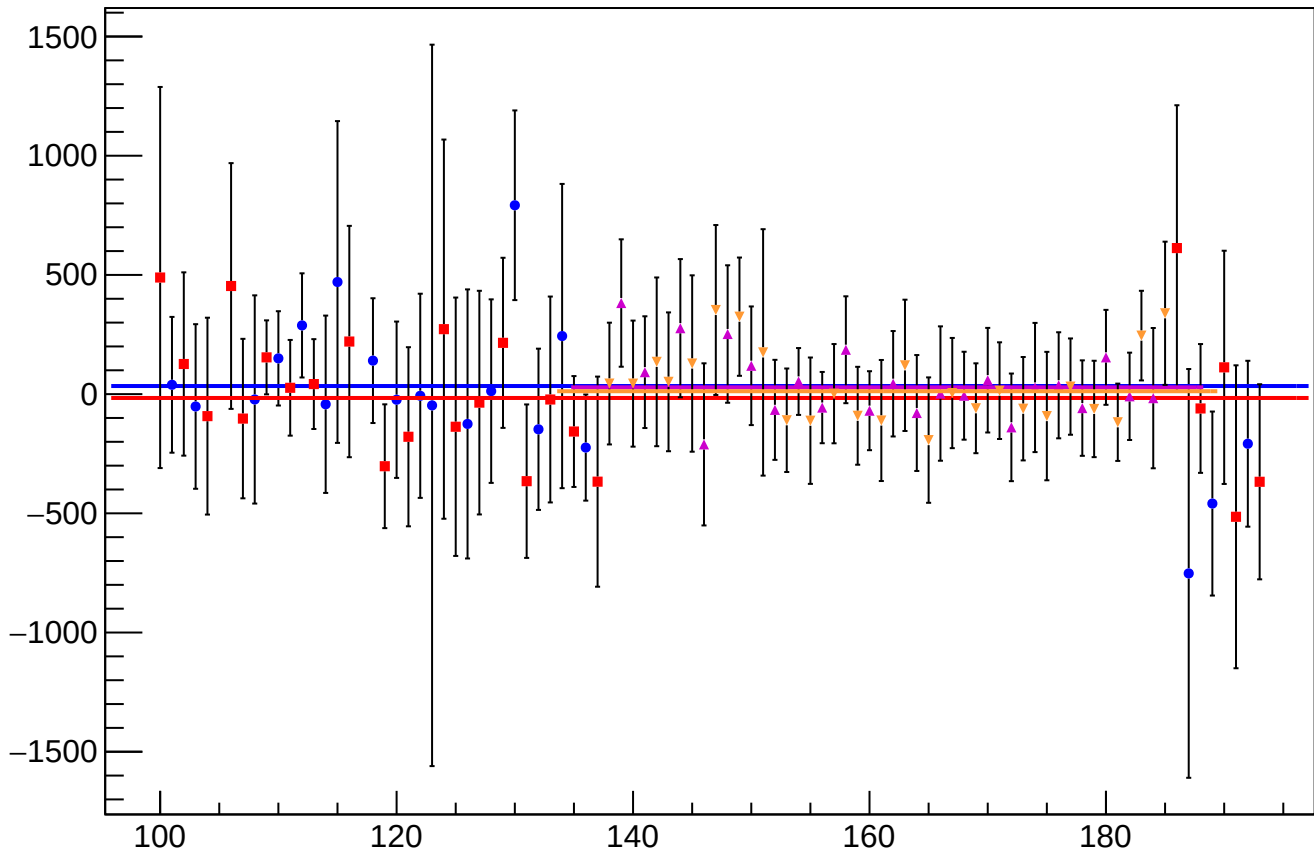
Right: 143.199 $\pm$ 0.026 χ^2 /NDF: 5341649.8/43

In: 177.709 $\pm$ 0.026 χ^2 /NDF:4772705.0/42

Out: 173.856 $\pm$ 0.025 χ^2 /NDF:5714663.3/48

All: 175.657 $\pm$ 0.018 χ^2 /NDF: 10498769.8/92

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 33.989 ± 75.458 χ^2/NDF : 10.9/19

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -16.138 ± 65.550 χ^2/NDF : 9.8/23

Left In: 28.452 ± 44.688 χ^2/NDF : 6.7/22

Left: 20.817 ± 32.558 χ^2/NDF : 15.3/47

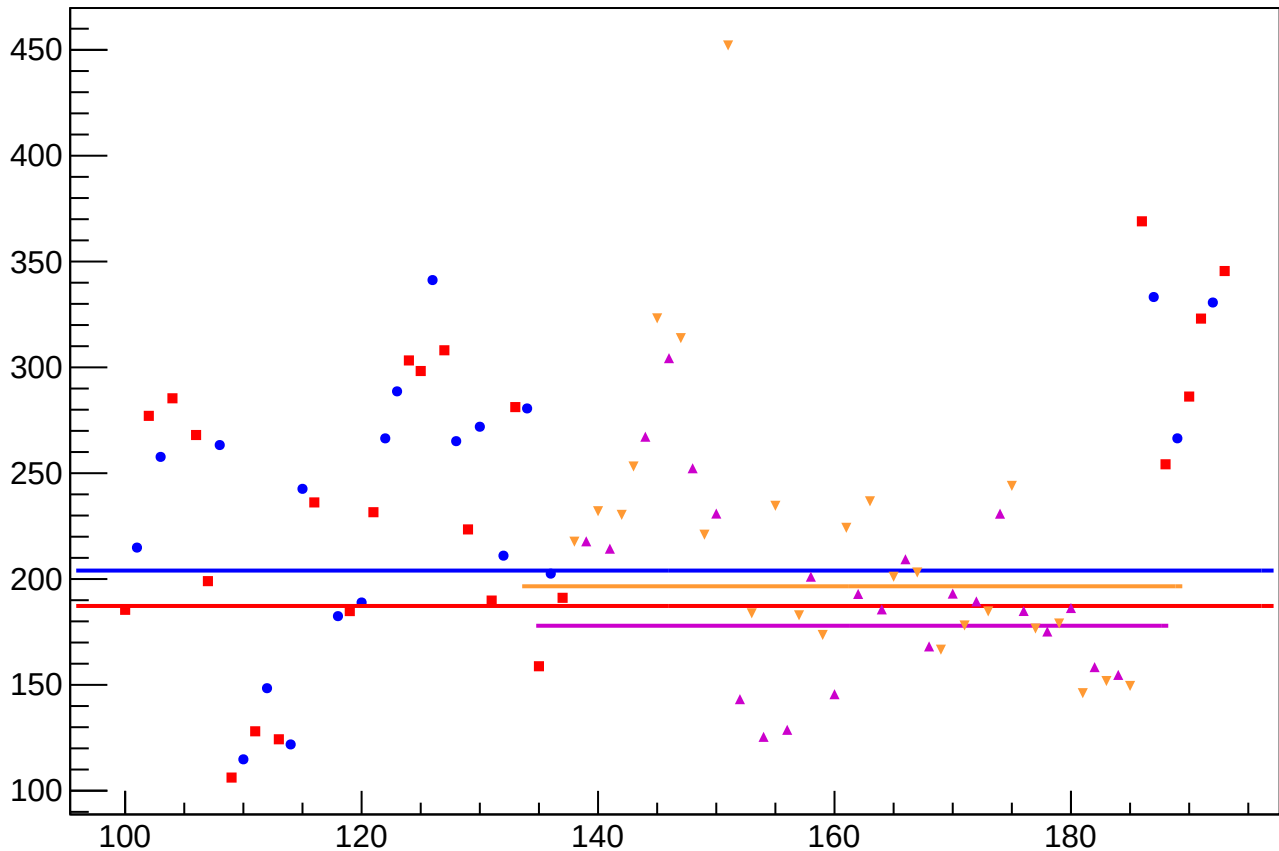
Right: 5.421 ± 49.486 χ^2/NDF : 20.9/43

In: 29.890 ± 38.451 χ^2/NDF : 17.5/42

Out: 2.422 ± 38.479 χ^2/NDF : 18.5/48

All: 16.166 ± 27.199 χ^2/NDF : 36.3/91

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 204.000 $\pm$ 0.053 χ^2 /NDF: 1414718.0/19

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 187.278 $\pm$ 0.046 χ^2 /NDF: 2448944.6/23

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

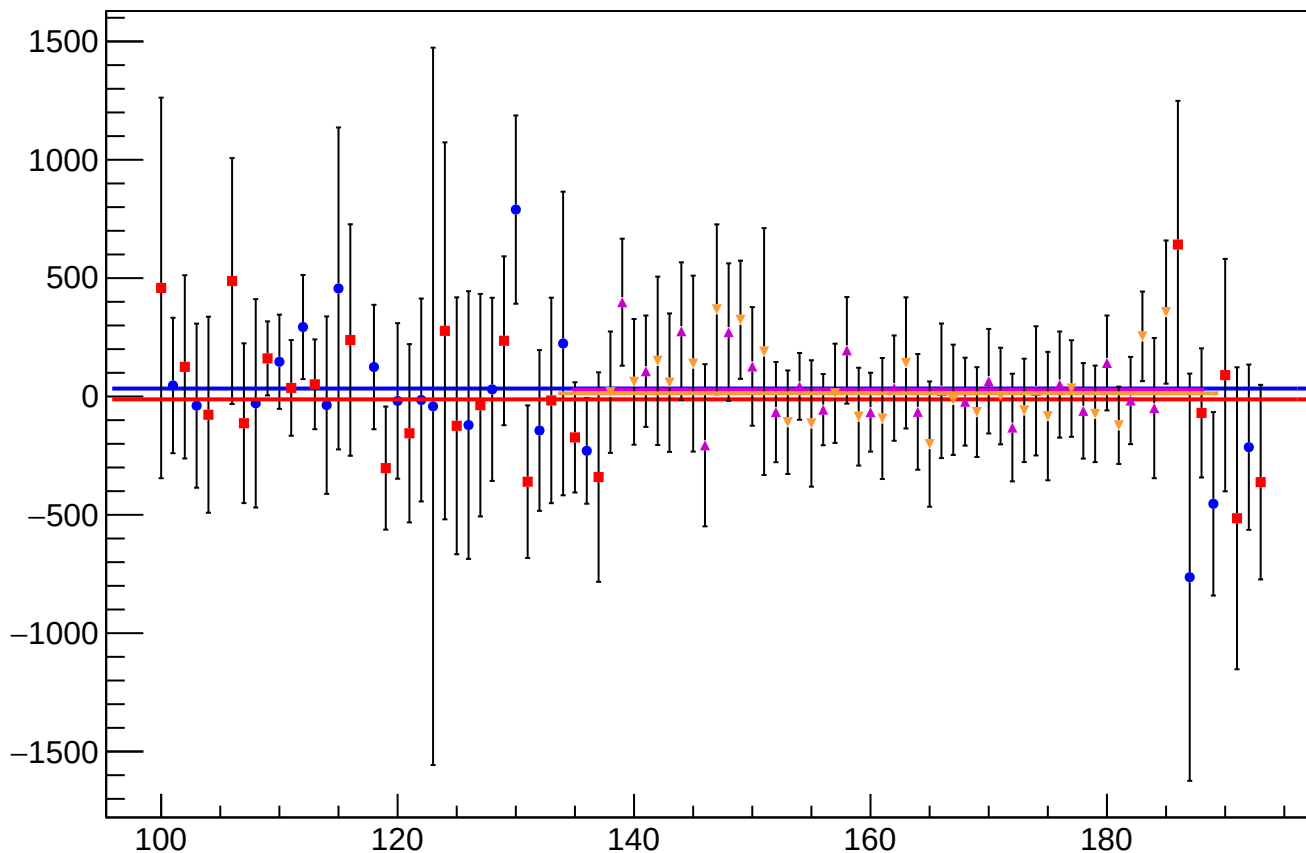
Right: 194.470 $\pm$ 0.035 χ^2 /NDF: 3919641.3/43

In: 184.702 $\pm$ 0.027 χ^2 /NDF:3197202.7/42

Out: 193.372 $\pm$ 0.027 χ^2 /NDF:4254037.8/48

All: 189.034 $\pm$ 0.019 χ^2 /NDF: 7502049.8/91

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 33.558+/-75.819 χ^2/NDF : 10.7/19

Left Out: 13.395+/-47.862 χ^2/NDF : 9.0/24

Right Out: -12.044+/-65.915 χ^2/NDF : 10.0/23

Left In: 28.806+/-44.980 χ^2/NDF : 6.8/22

Left: 21.578+/-32.777 χ^2/NDF : 15.9/47

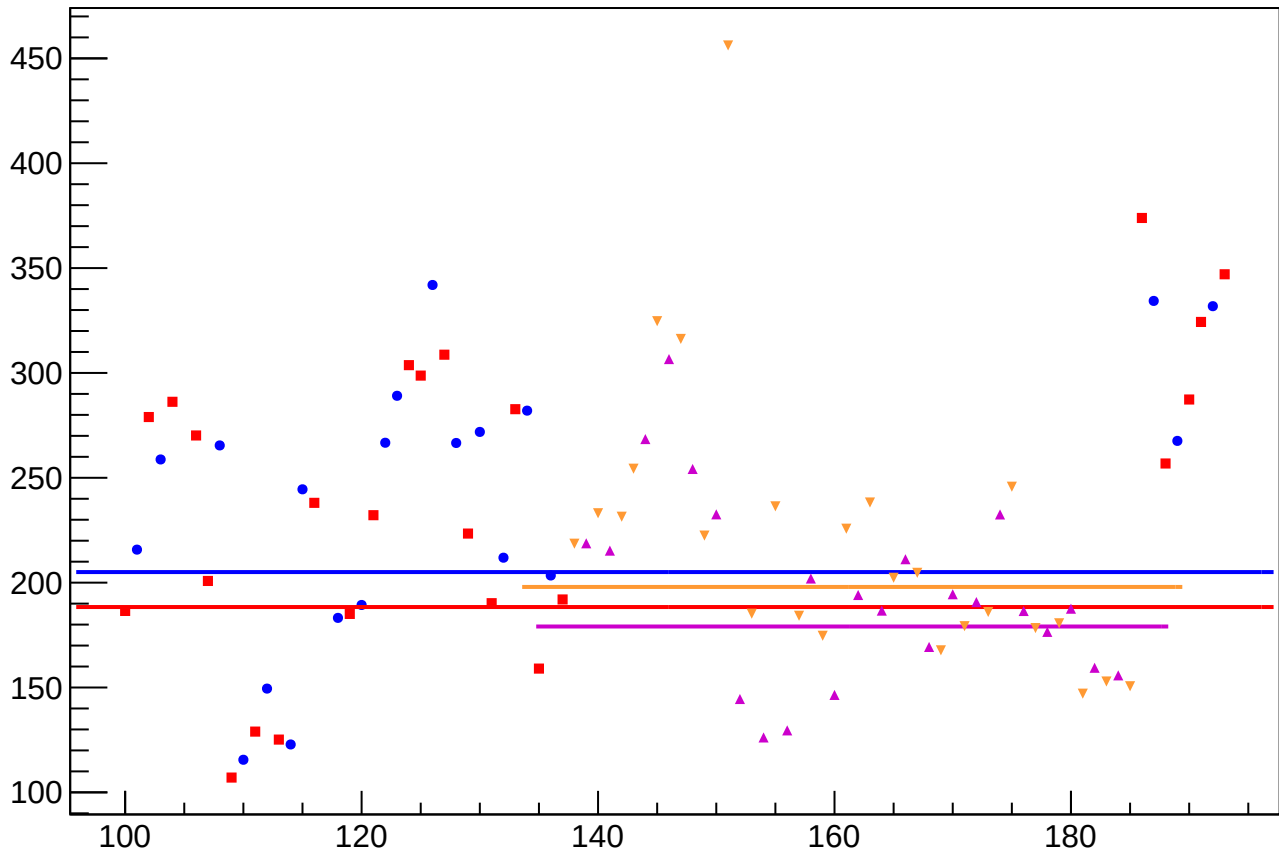
Right: 7.586+/-49.745 χ^2/NDF : 20.9/43

In: 30.043+/-38.685 χ^2/NDF : 17.6/42

Out: 4.613+/-38.729 χ^2/NDF : 19.1/48

All: 17.342+/-27.370 χ^2/NDF : 36.9/91

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 205.045 $\pm$ 0.054 χ^2/NDF : 1404345.0/19

Left Out: 197.953 $\pm$ 0.034 χ^2/NDF :1774524.3/24

Right Out: 188.373 $\pm$ 0.047 χ^2/NDF : 2440829.3/23

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

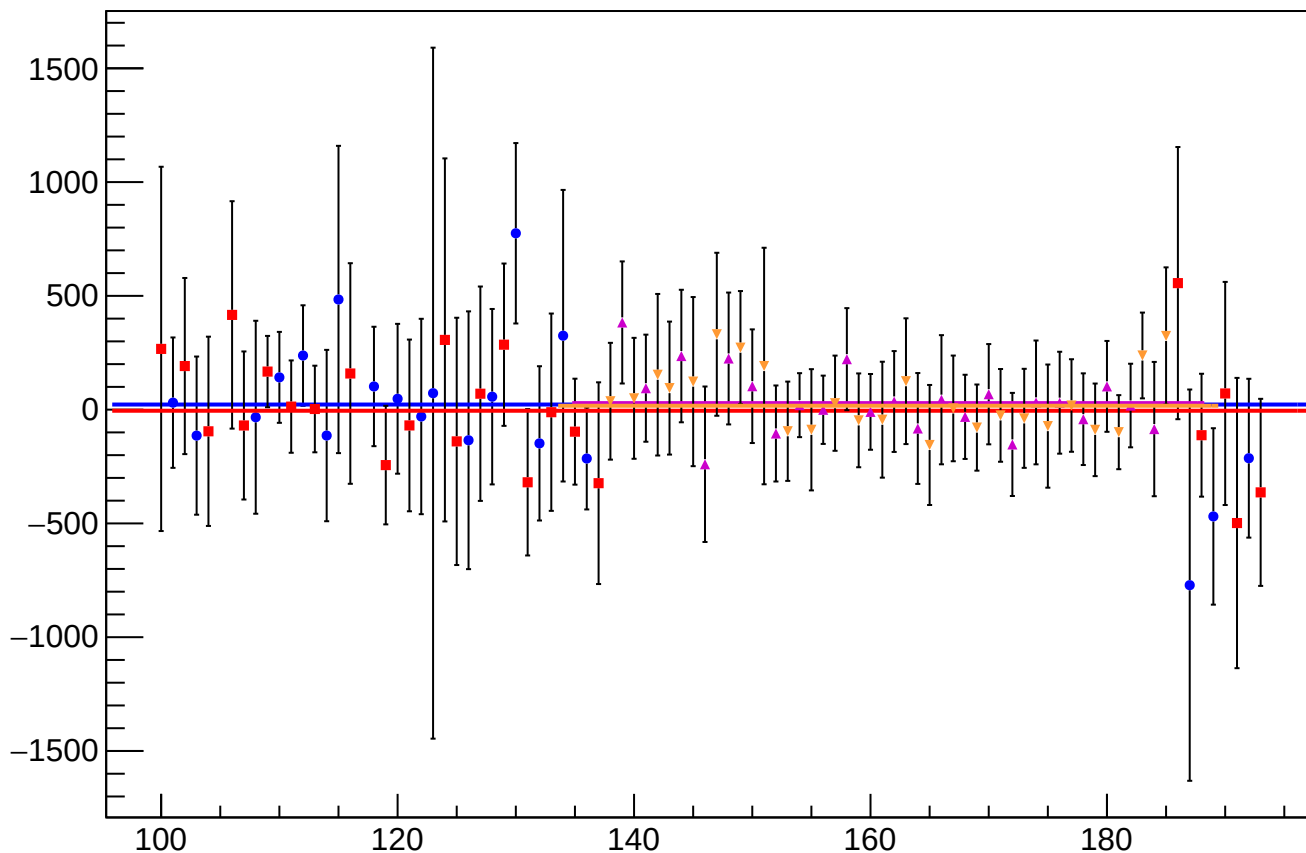
Right: 195.550 $\pm$ 0.035 χ^2/NDF : 3900245.4/43

In: 185.846 $\pm$ 0.027 χ^2/NDF :3182818.0/42

Out: 194.646 $\pm$ 0.027 χ^2/NDF :4243011.2/48

All: 190.241 $\pm$ 0.019 χ^2/NDF : 7477508.7/91

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 22.459 $\pm$ 75.815 χ^2 /NDF: 10.4/19

Left Out: 17.142 $\pm$ 47.738 χ^2 /NDF: 7.1/24

Right Out: -4.830 $\pm$ 65.798 χ^2 /NDF: 8.3/23

Left In: 28.655 $\pm$ 44.859 χ^2 /NDF: 6.1/22

Left: 23.256 $\pm$ 32.690 χ^2 /NDF: 13.2/47

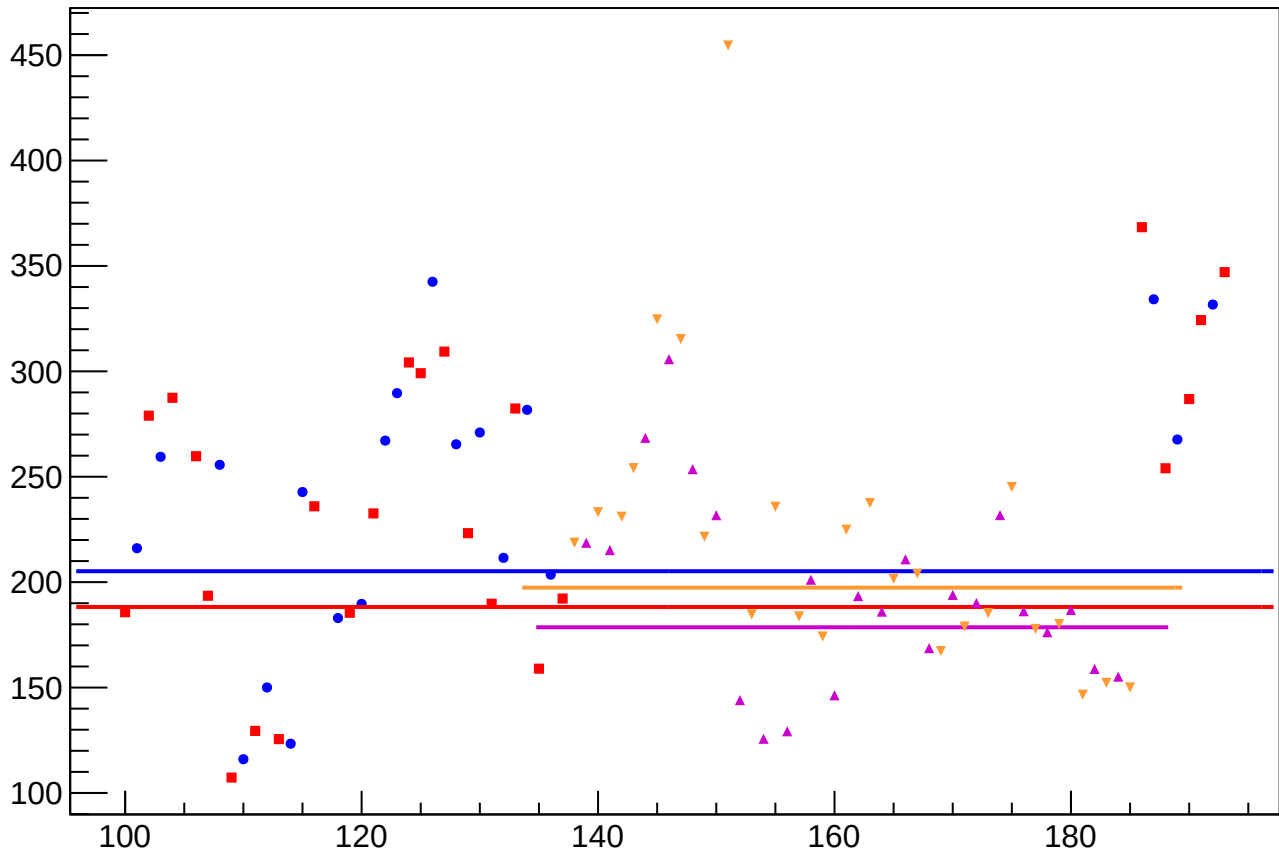
Right: 6.894 $\pm$ 49.693 χ^2 /NDF: 18.8/43

In: 27.049 $\pm$ 38.607 χ^2 /NDF: 16.5/42

Out: 9.565 $\pm$ 38.639 χ^2 /NDF: 15.5/48

All: 18.314 $\pm$ 27.311 χ^2 /NDF: 32.1/91

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 205.192 $\pm$ 0.054 χ^2 /NDF: 1380830.4/19

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 188.234 $\pm$ 0.047 χ^2 /NDF: 2404545.2/23

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF:1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

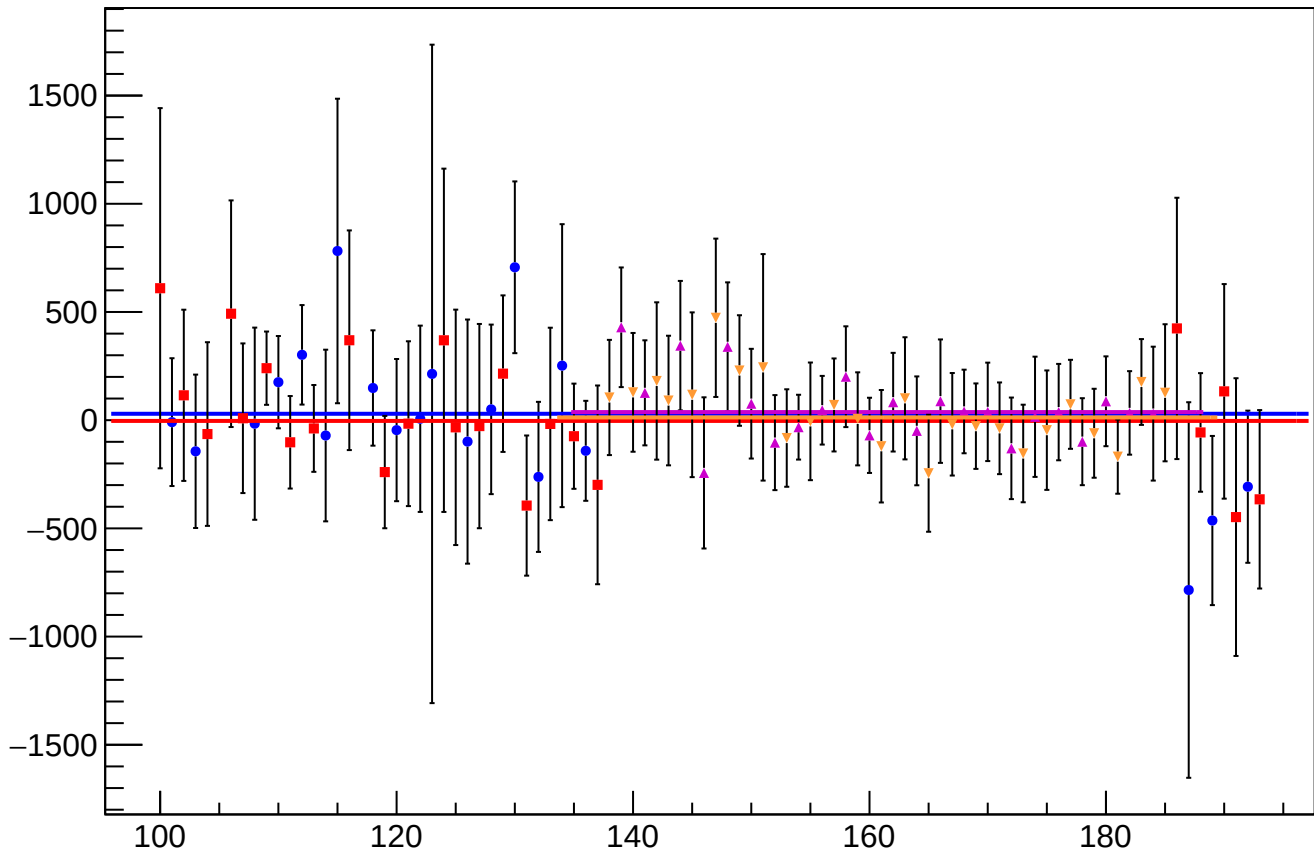
Right: 195.520 $\pm$ 0.035 χ^2 /NDF: 3842445.4/43

In: 185.497 $\pm$ 0.027 χ^2 /NDF:3172052.5/42

Out: 194.253 $\pm$ 0.027 χ^2 /NDF:4210353.1/48

All: 189.871 $\pm$ 0.019 χ^2 /NDF: 7433809.1/91

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 29.594 $\pm$ 78.008 χ^2 /NDF: 11.3/19

Left Out: 12.632 $\pm$ 49.242 χ^2 /NDF: 7.5/24

Right Out: -3.415 $\pm$ 68.291 χ^2 /NDF: 9.7/23

Left In: 37.460 $\pm$ 46.479 χ^2 /NDF: 7.6/22

Left: 25.762 $\pm$ 33.800 χ^2 /NDF: 15.3/47

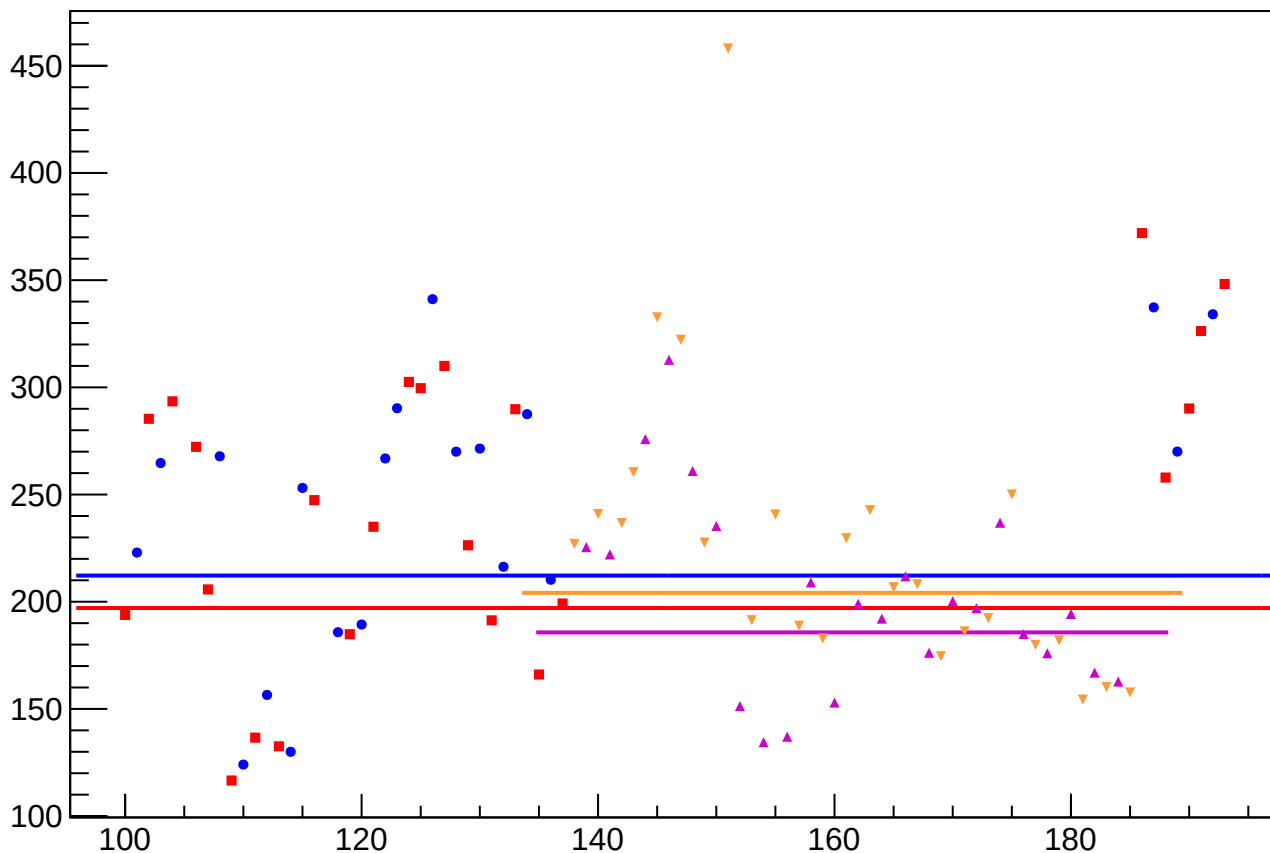
Right: 10.906 $\pm$ 51.383 χ^2 /NDF: 21.1/43

In: 35.399 $\pm$ 39.929 χ^2 /NDF: 19.0/42

Out: 7.143 $\pm$ 39.942 χ^2 /NDF: 17.2/48

All: 21.276 $\pm$ 28.238 χ^2 /NDF: 36.5/91

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 212.193 ± 0.055 $\chi^2/NDF: 1241872.4/19$

Left Out: 204.132 ± 0.035 $\chi^2/NDF: 1672287.6/24$

Right Out: 197.064 ± 0.048 $\chi^2/NDF: 2148717.9/23$

Left In: 185.694 ± 0.033 $\chi^2/NDF: 1447767.0/22$

Left: 194.381 ± 0.024 $\chi^2/NDF: 3268347.9/47$

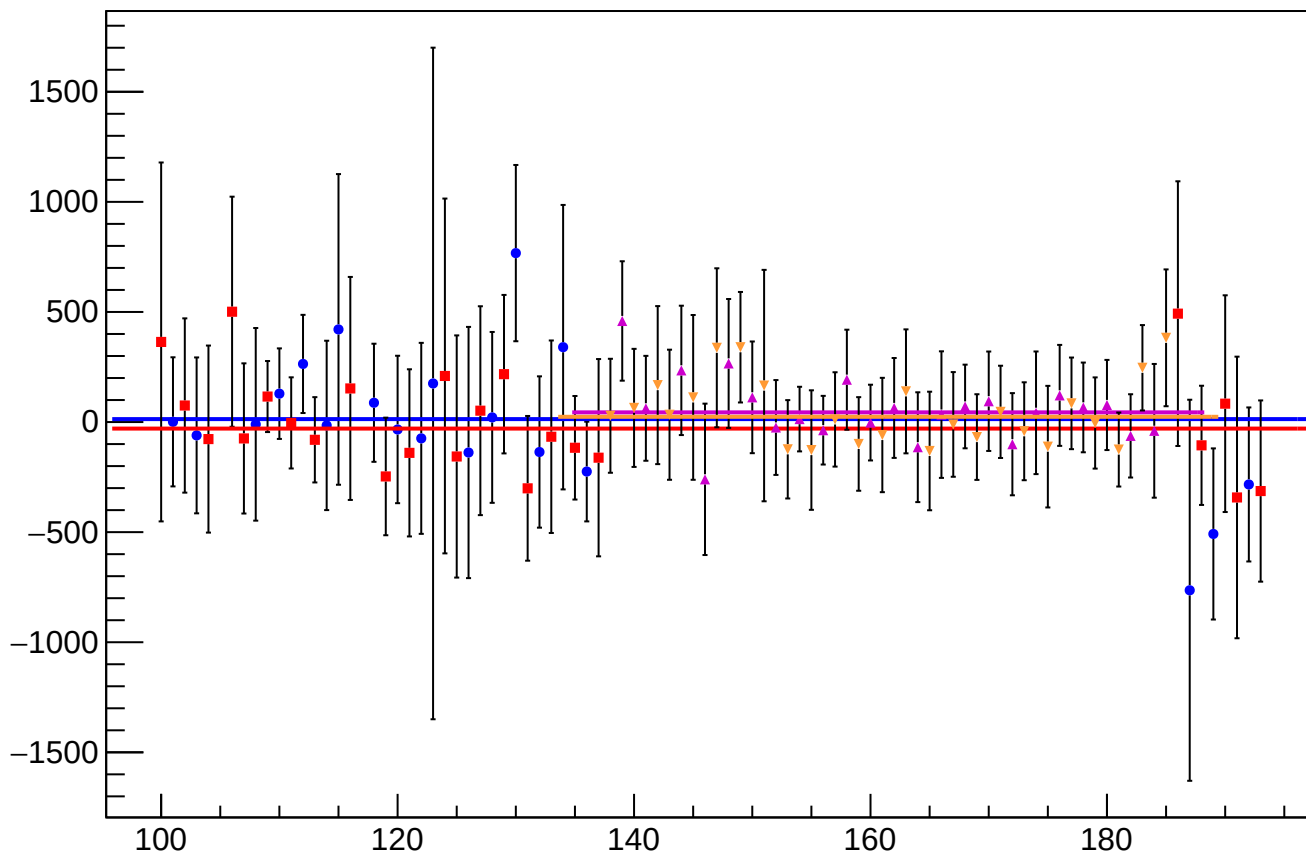
Right: 203.628 ± 0.036 $\chi^2/NDF: 3433176.5/43$

In: 192.636 ± 0.028 $\chi^2/NDF: 2859964.7/42$

Out: 201.714 ± 0.028 $\chi^2/NDF: 3835099.0/48$

All: 197.174 ± 0.020 $\chi^2/NDF: 6746737.1/91$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 13.401 $\pm$ 77.058 χ^2 /NDF: 10.6/19

Left Out: 23.843 $\pm$ 48.783 χ^2 /NDF:8.5/24

Right Out: -29.654 $\pm$ 67.049 χ^2 /NDF: 6.3/23

Left In: 43.978 $\pm$ 45.981 χ^2 /NDF:6.5/22

Left: 34.506 $\pm$ 33.460 χ^2 /NDF: 15.1/47

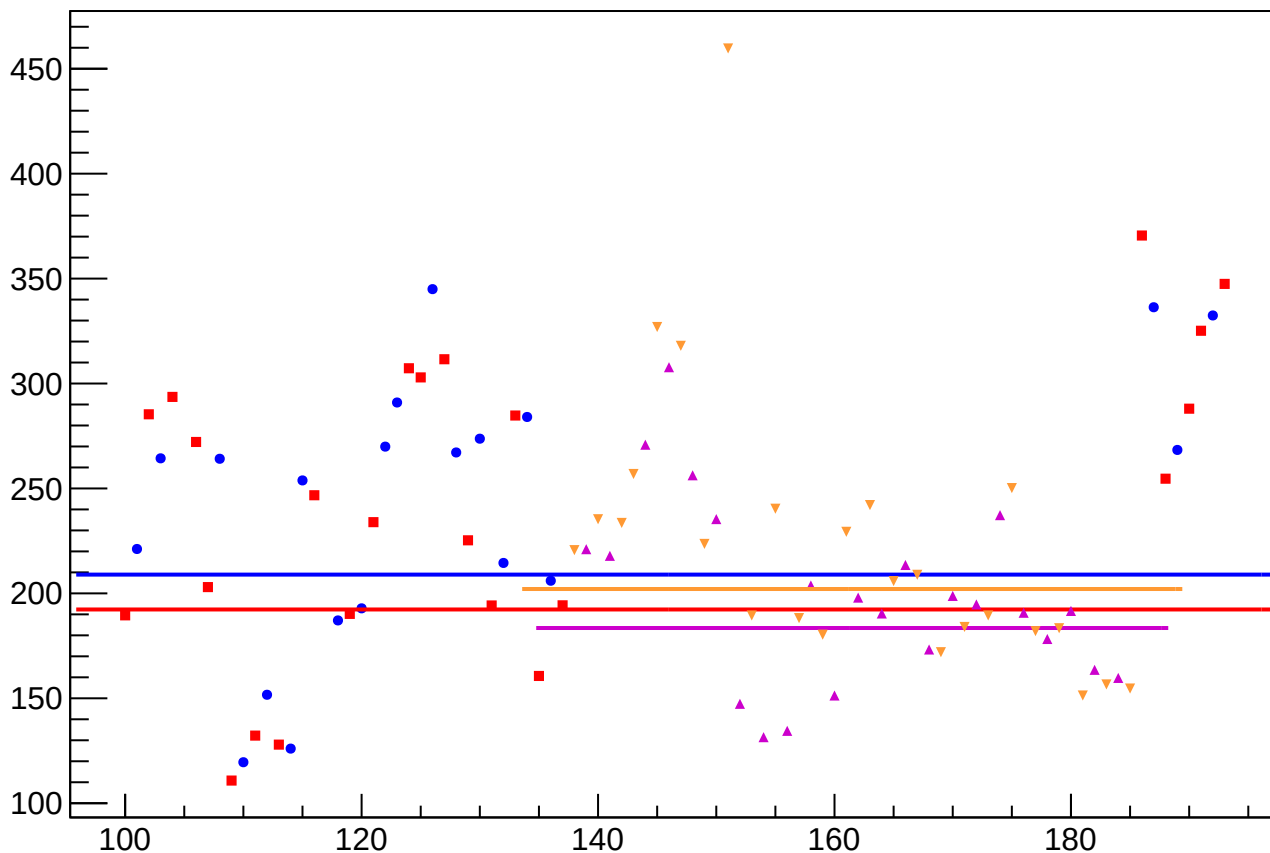
Right: -11.103 $\pm$ 50.582 χ^2 /NDF: 17.1/43

In: 35.950 $\pm$ 39.485 χ^2 /NDF:17.3/42

Out: 5.326 $\pm$ 39.447 χ^2 /NDF:15.2/48

All: 20.623 $\pm$ 27.907 χ^2 /NDF: 32.7/91

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 208.943 $\pm$ 0.054 χ^2/NDF : 1336917.3/19

Left Out: 202.081 $\pm$ 0.034 χ^2/NDF : 1692787.9/24

Right Out: 192.327 $\pm$ 0.047 χ^2/NDF : 2339042.2/23

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

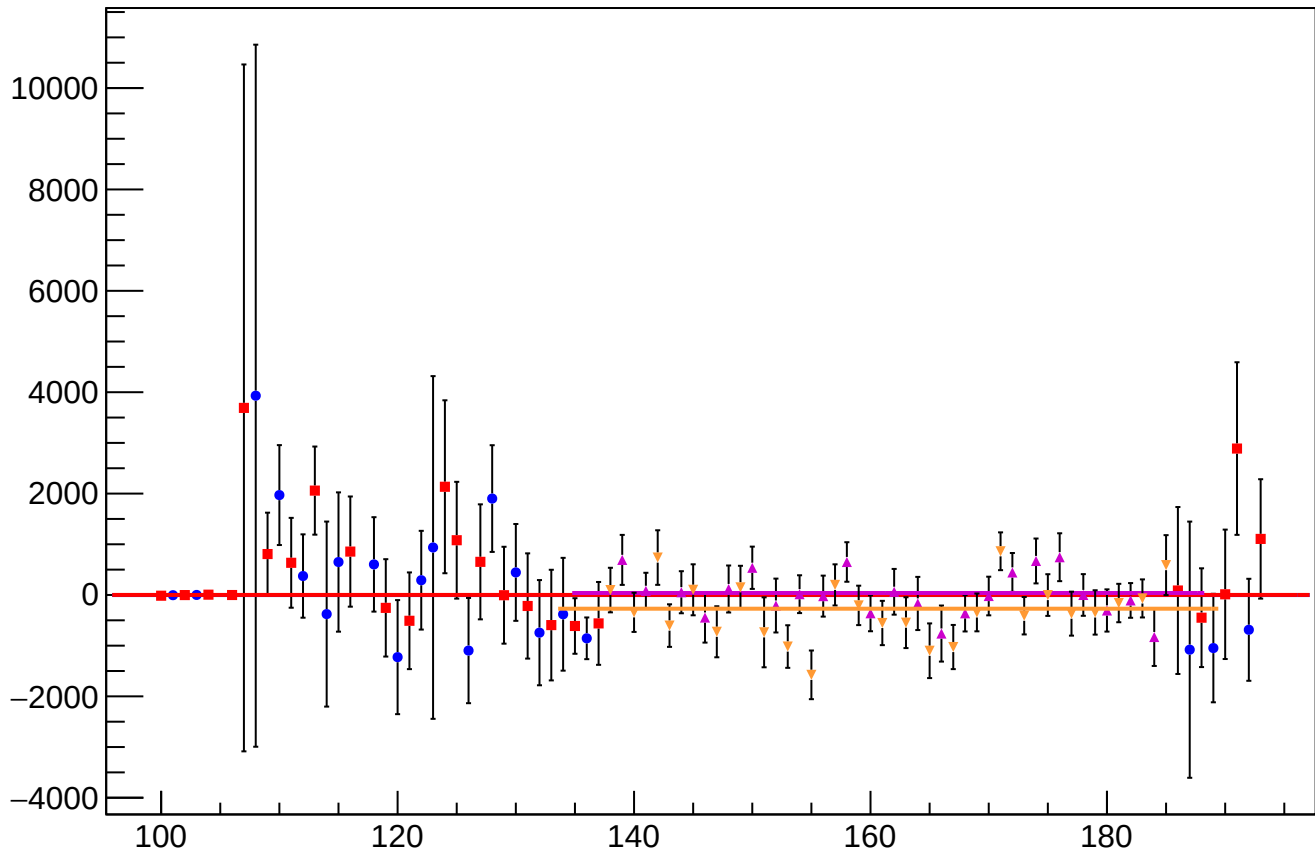
Right: 199.487 $\pm$ 0.036 χ^2/NDF : 3728883.8/43

In: 190.179 $\pm$ 0.028 χ^2/NDF : 2981116.9/42

Out: 198.705 $\pm$ 0.028 χ^2/NDF : 4059501.9/48

All: 194.446 $\pm$ 0.020 χ^2/NDF : 7087283.5/91

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.538 ± 2.251 χ^2/NDF : 19.0/19

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.732 ± 2.111 χ^2/NDF : 23.1/23

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

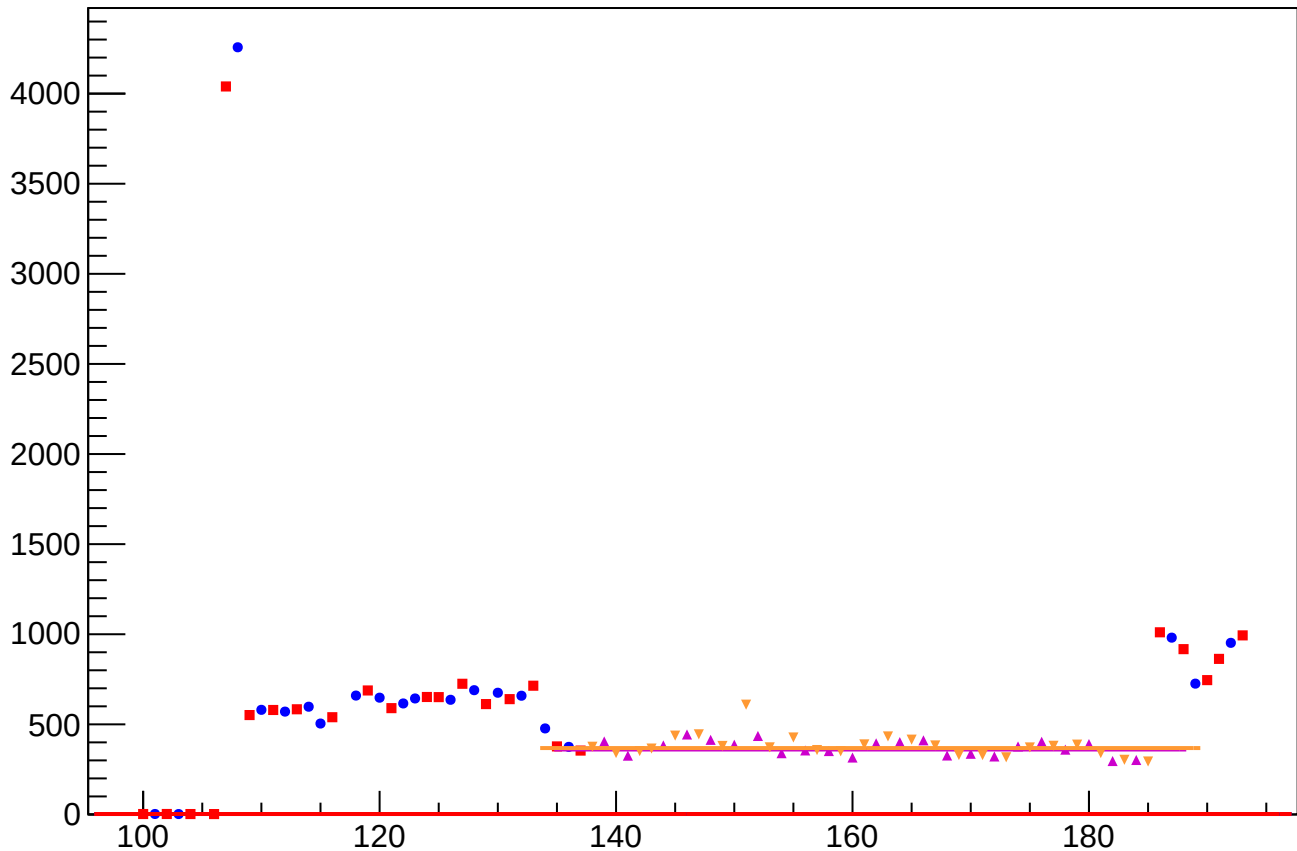
Right: -0.330 ± 1.540 χ^2/NDF : 42.7/43

In: -1.512 ± 2.251 χ^2/NDF : 39.5/42

Out: 0.572 ± 2.110 χ^2/NDF : 71.0/48

All: -0.403 ± 1.540 χ^2/NDF : 110.9/91

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.465+/-0.002 χ^2/NDF : 13804706.2/19

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.449+/-0.001 χ^2/NDF : 16220786.5/23

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

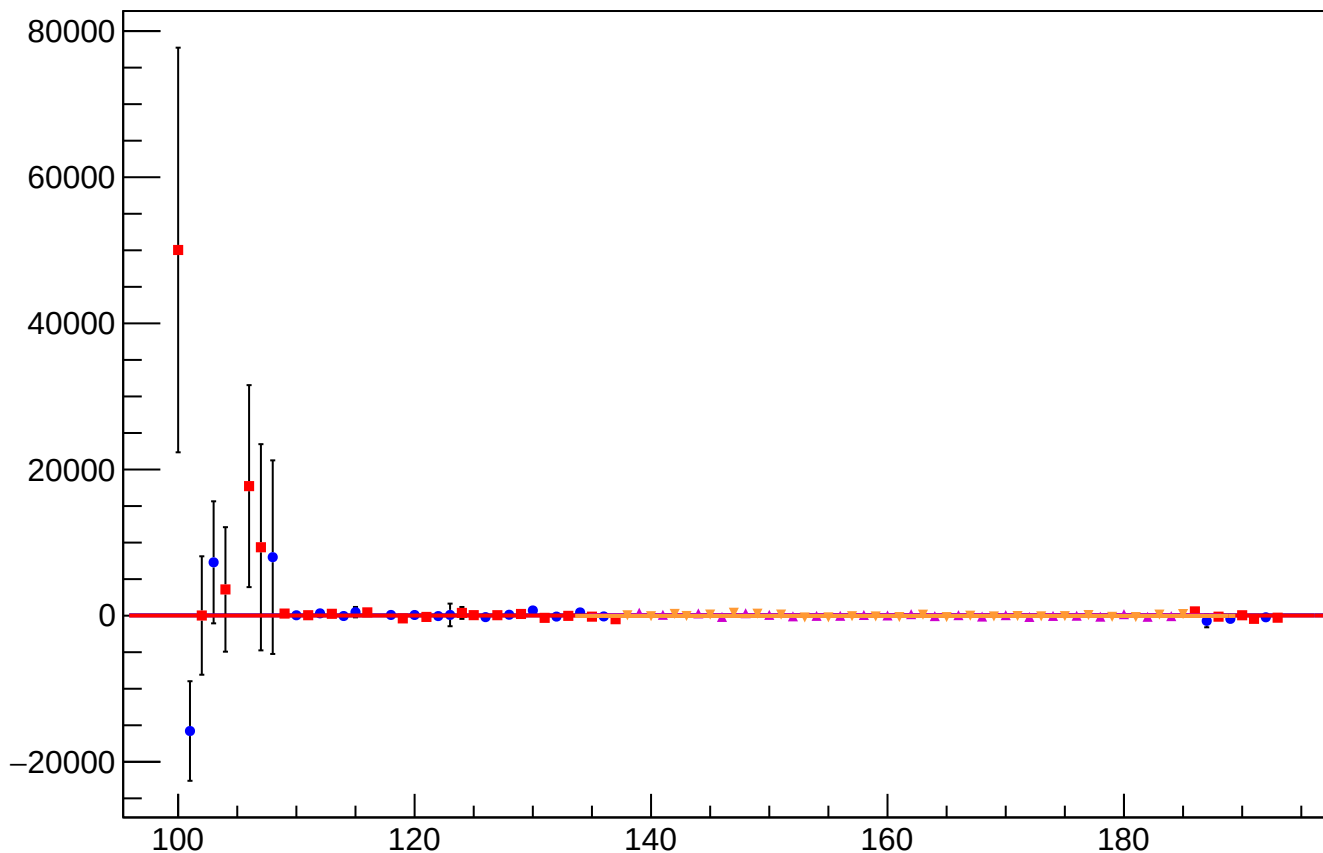
Right: 2.457+/-0.001 χ^2/NDF : 30025547.1/43

In: 2.701+/-0.002 χ^2/NDF : 47464308.7/42

Out: 2.665+/-0.001 χ^2/NDF : 52234895.1/48

All: 2.681+/-0.001 χ^2/NDF : 99699475.3/91

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 49.371+/-85.844 χ^2/NDF : 15.1/19

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: 16.514+/-77.257 χ^2/NDF : 16.2/23

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

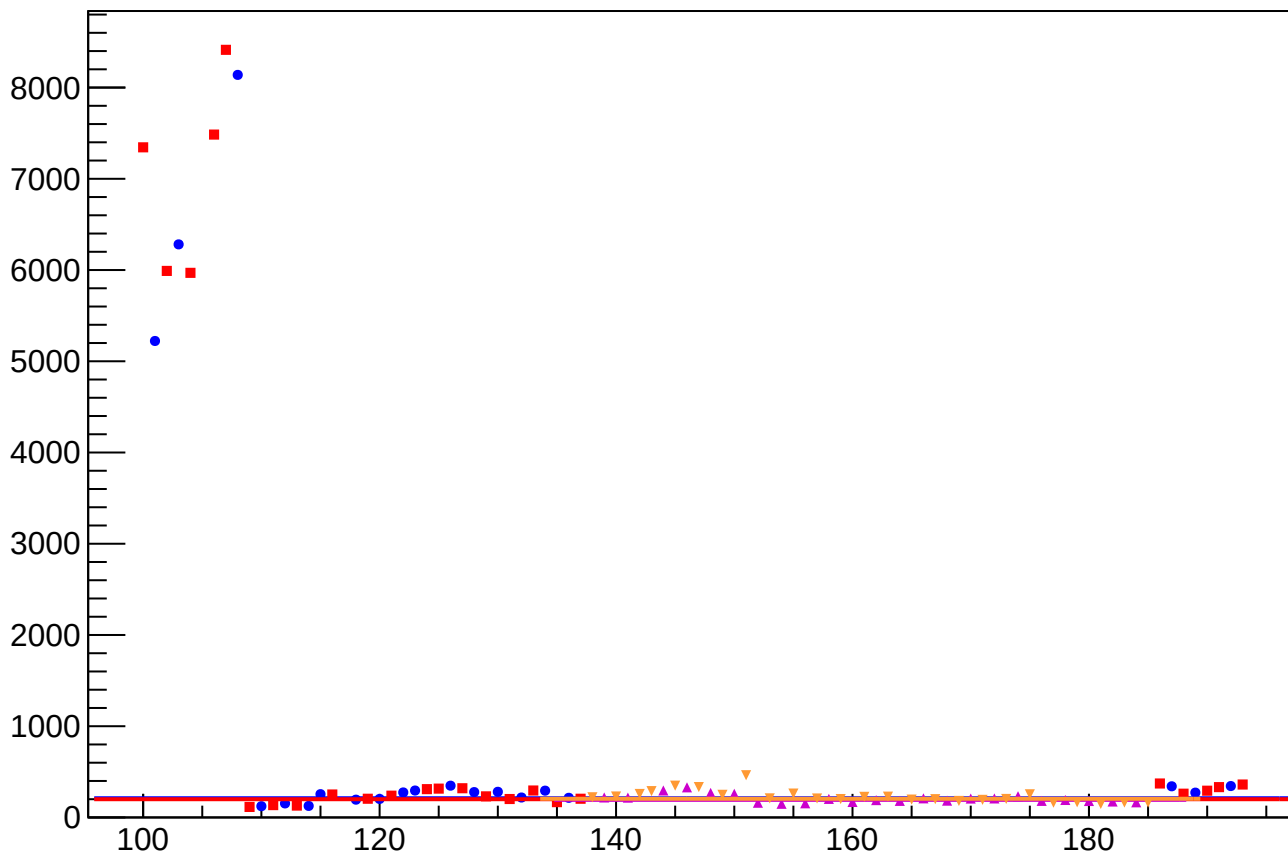
Right: 31.217+/-57.426 χ^2/NDF : 31.5/43

In: 33.273+/-42.006 χ^2/NDF : 24.4/42

Out: -22.085+/-41.755 χ^2/NDF : 25.9/48

All: 5.428+/-29.614 χ^2/NDF : 51.2/91

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 210.495+/-0.061 χ^2/NDF : 4104444.4/19

Left Out: 205.027+/-0.035 χ^2/NDF : 1956045.1/24

Right Out: 199.934+/-0.055 χ^2/NDF : 5123519.0/23

Left In: 193.405+/-0.034 χ^2/NDF : 1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

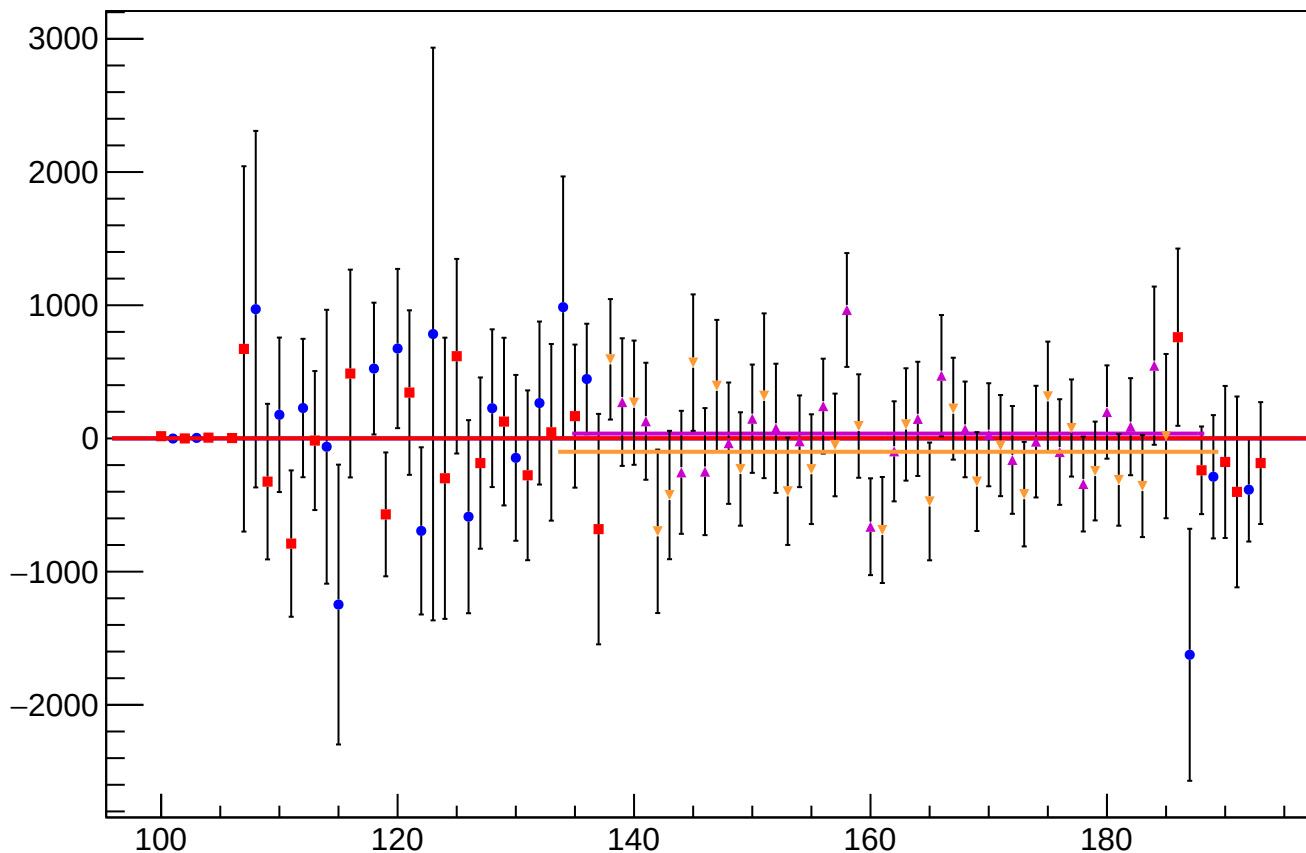
Right: 204.660+/-0.041 χ^2/NDF : 9244689.0/43

In: 197.497+/-0.030 χ^2/NDF : 5336905.2/42

Out: 203.539+/-0.030 χ^2/NDF : 7085716.4/48

All: 200.536+/-0.021 χ^2/NDF : 12443435.7/91

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.157 $\pm$ 1.737 χ^2/NDF : 14.3/19

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.315 $\pm$ 1.623 χ^2/NDF : 11.8/23

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

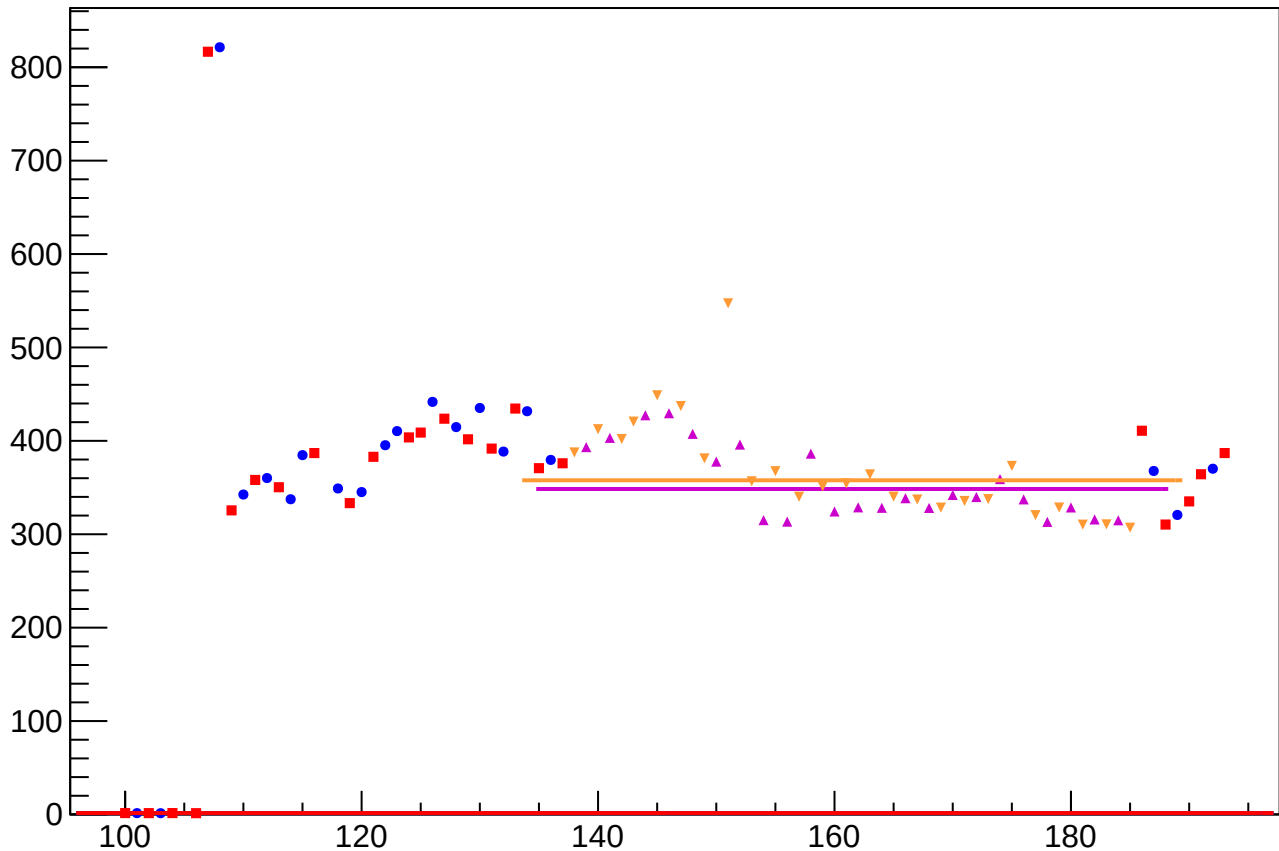
Right: 0.629 $\pm$ 1.186 χ^2/NDF : 26.5/43

In: -0.142 $\pm$ 1.736 χ^2/NDF :28.1/42

Out: 1.278 $\pm$ 1.622 χ^2/NDF :29.0/48

All: 0.616 $\pm$ 1.185 χ^2/NDF : 57.4/91

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.466+/-0.001 χ^2/NDF : 13961493.0/19

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.470+/-0.001 χ^2/NDF : 15975567.9/23

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.145+/-0.042 χ^2/NDF : 919701.2/47

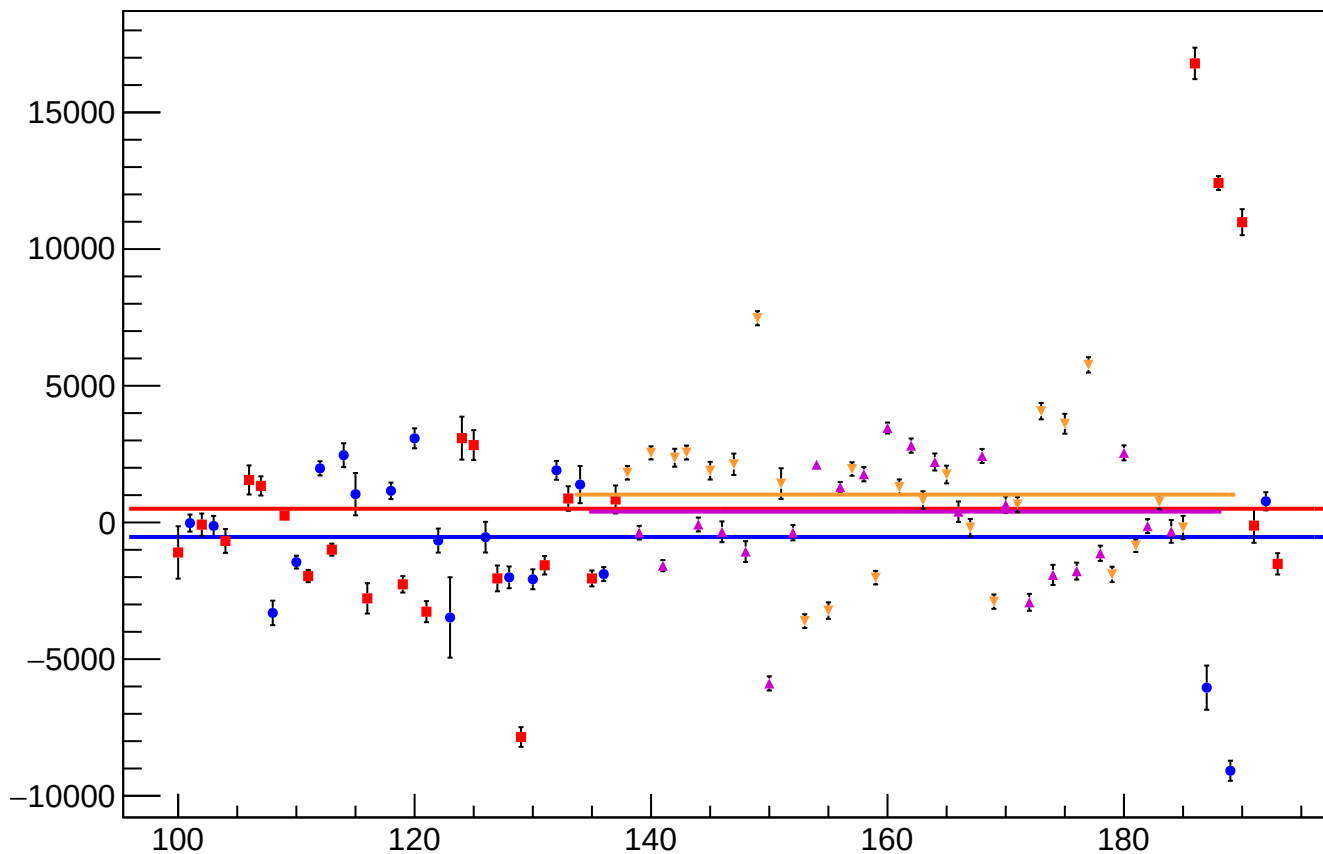
Right: 1.468+/-0.001 χ^2/NDF : 29937068.5/43

In: 1.612+/-0.001 χ^2/NDF : 47894824.2/42

Out: 1.603+/-0.001 χ^2/NDF : 52331010.1/48

All: 1.607+/-0.001 χ^2/NDF : 100225863.1/91

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -531.823+/-82.243 χ^2/NDF : 1056.4/19

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: 502.171+/-71.692 χ^2/NDF : 4636.5/23

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

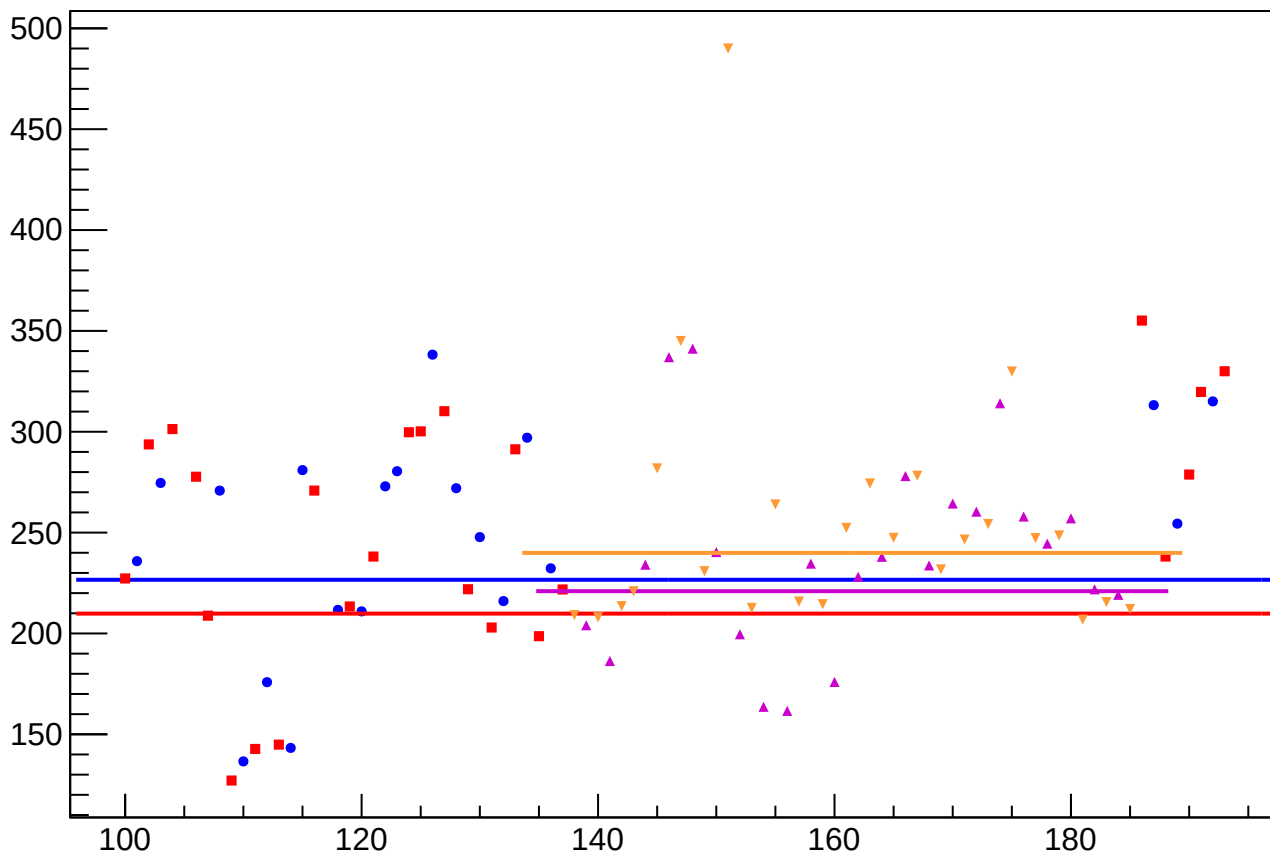
Right: 55.715+/-54.041 χ^2/NDF : 5782.8/43

In: 109.051+/-45.770 χ^2/NDF : 2725.4/42

Out: 817.081+/-44.809 χ^2/NDF : 6978.3/48

All: 470.583+/-32.019 χ^2/NDF : 9825.9/91

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 226.613 ± 0.058 χ^2/NDF : 857765.3/19

Left Out: 239.942 ± 0.041 χ^2/NDF : 1000770.0/24

Right Out: 209.840 ± 0.051 χ^2/NDF : 1695950.4/23

Left In: 220.972 ± 0.039 χ^2/NDF : 1327680.6/22

Left: 230.067 ± 0.028 χ^2/NDF : 2442154.9/47

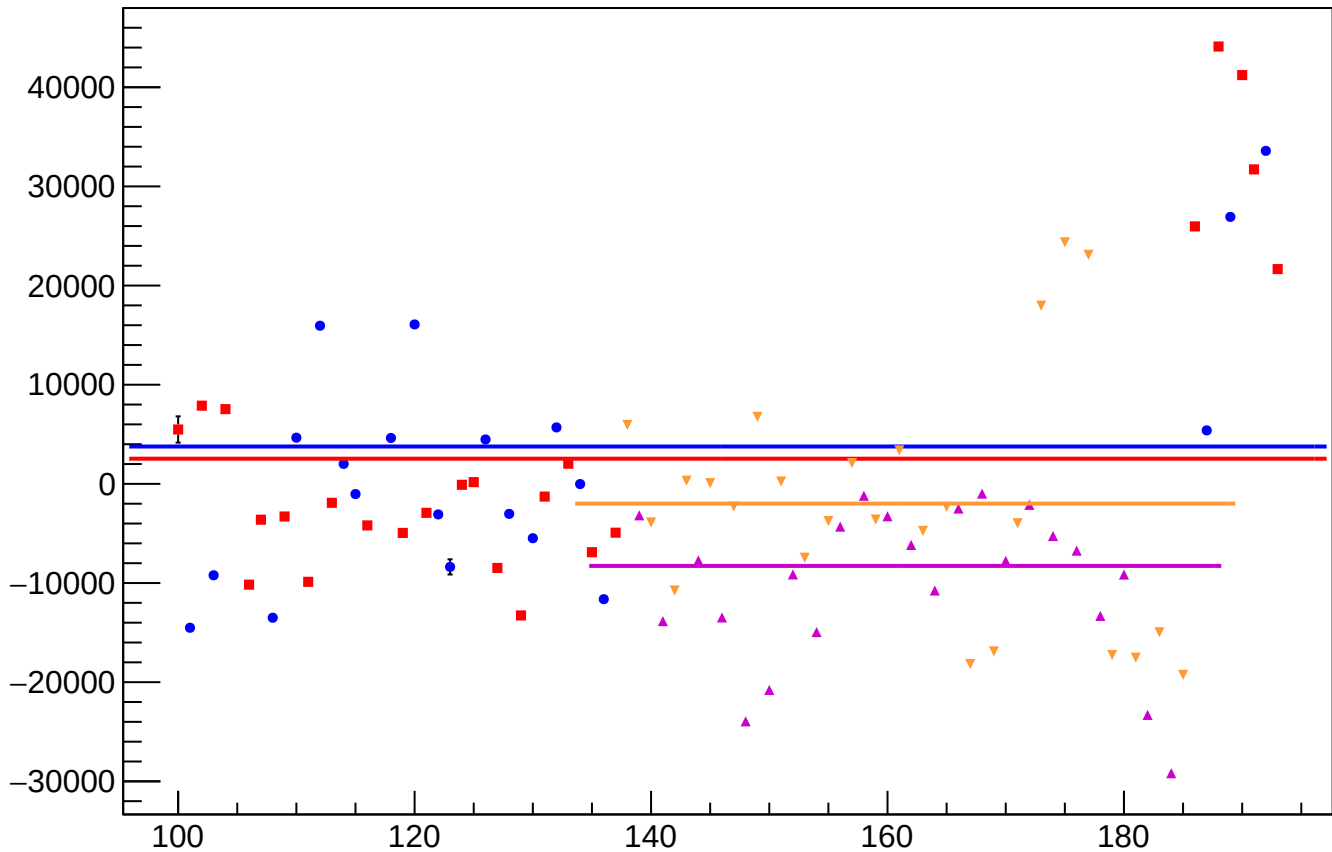
Right: 217.082 ± 0.038 χ^2/NDF : 2600982.9/43

In: 222.719 ± 0.032 χ^2/NDF : 2191941.3/42

Out: 228.183 ± 0.032 χ^2/NDF : 2911574.0/48

All: 225.509 ± 0.023 χ^2/NDF : 5118068.3/91

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3767.726 $\pm$ 51.329 χ^2/NDF : 67970.3/19

Left Out: -1991.788 $\pm$ 42.427 χ^2/NDF : 63766.6/24

Right Out: 2539.286 $\pm$ 47.360 χ^2/NDF : 113477.6/23

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

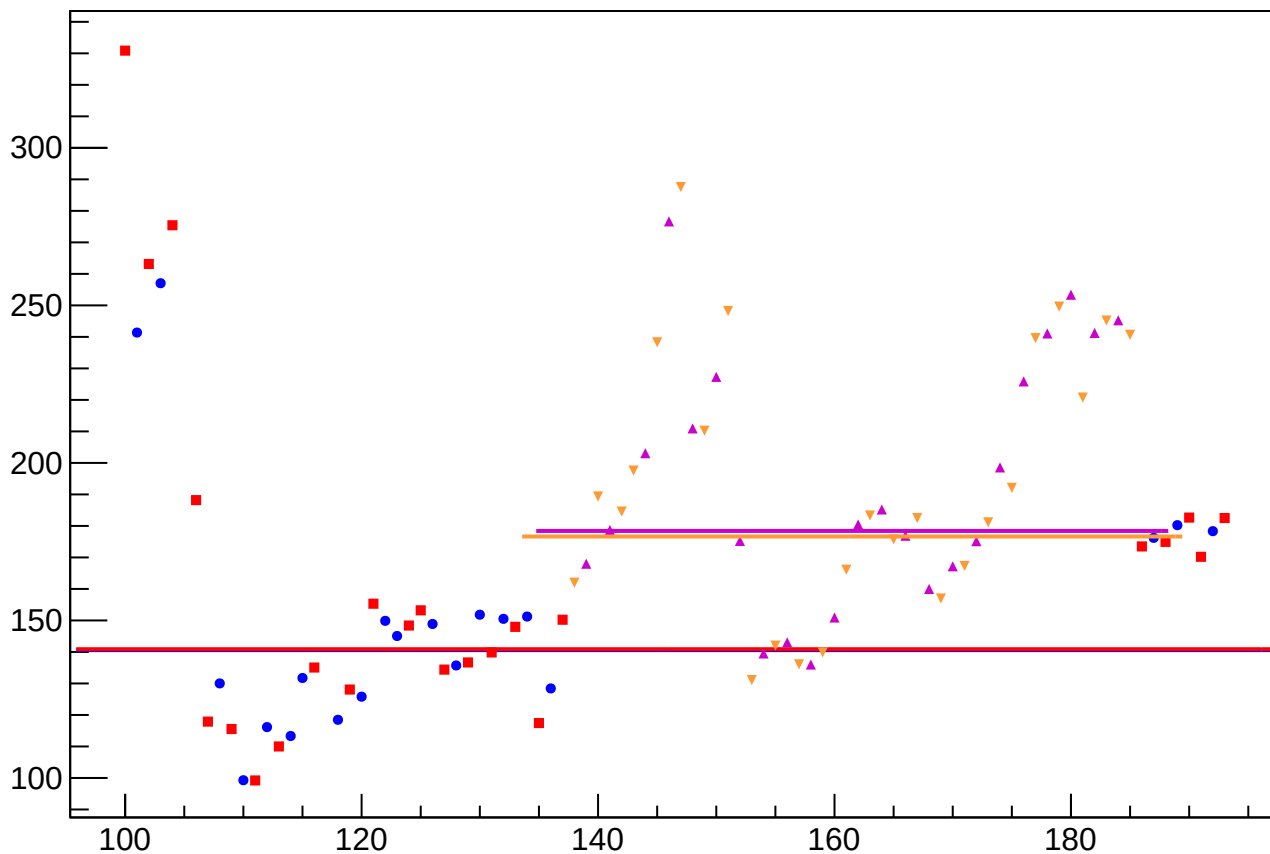
Right: 3104.182 $\pm$ 34.807 χ^2/NDF : 181757.3/43

In: -3132.875 $\pm$ 33.537 χ^2/NDF : 122377.7/42

Out: 25.543 $\pm$ 31.601 χ^2/NDF : 182322.2/48

All: -1459.855 $\pm$ 22.999 χ^2/NDF : 309397.9/9

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 140.583+/-0.036 χ^2/NDF : 816529.9/19

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 140.869+/-0.033 χ^2/NDF : 1096781.0/23

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

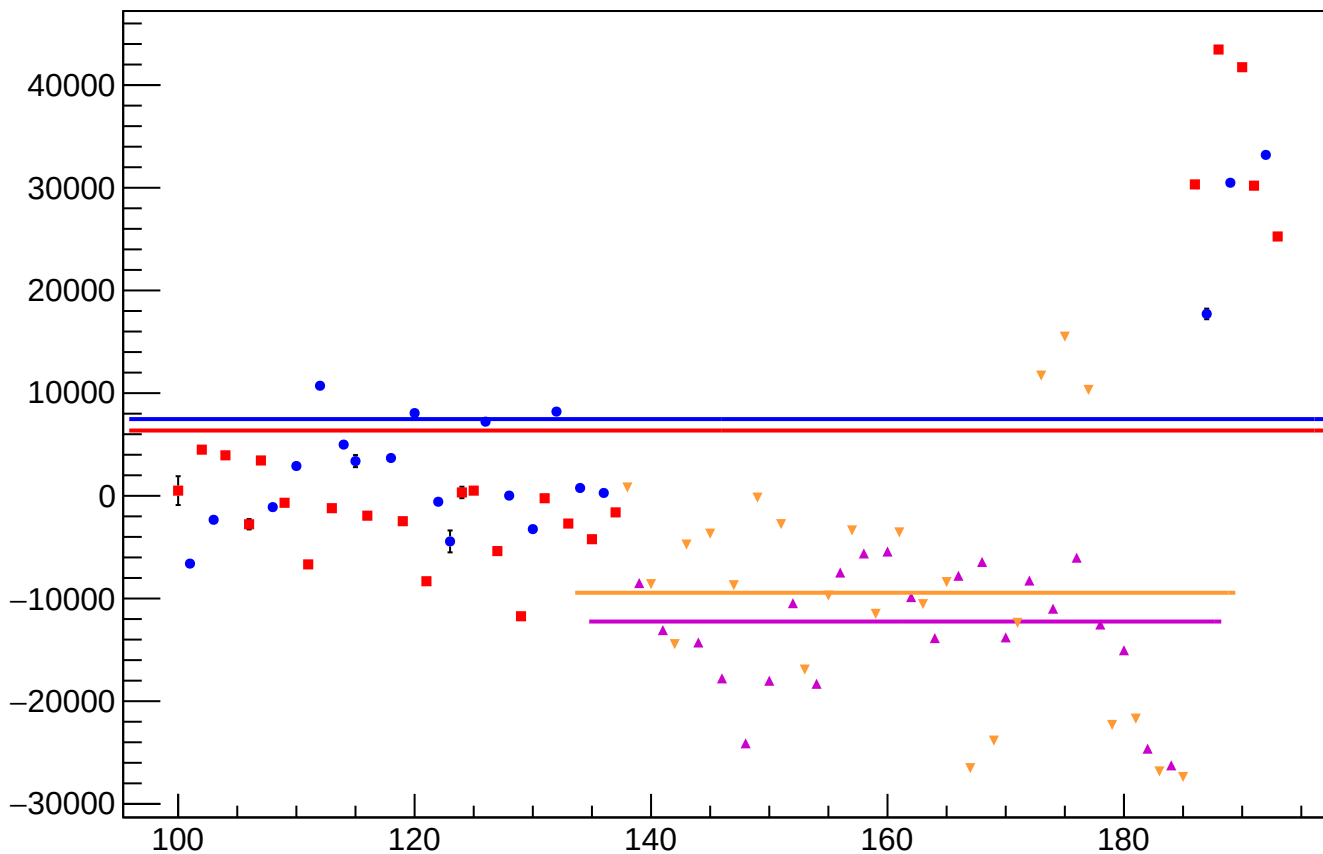
Right: 140.738+/-0.025 χ^2/NDF : 1913344.5/43

In: 162.263+/-0.024 χ^2/NDF :2732874.3/42

Out: 160.715+/-0.022 χ^2/NDF :3280820.1/48

All: 161.443+/-0.016 χ^2/NDF : 6015953.4/91

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7473.094+/-64.743 χ^2/NDF : 30580.6/19

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 6359.524+/-57.705 χ^2/NDF : 89401.6/23

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

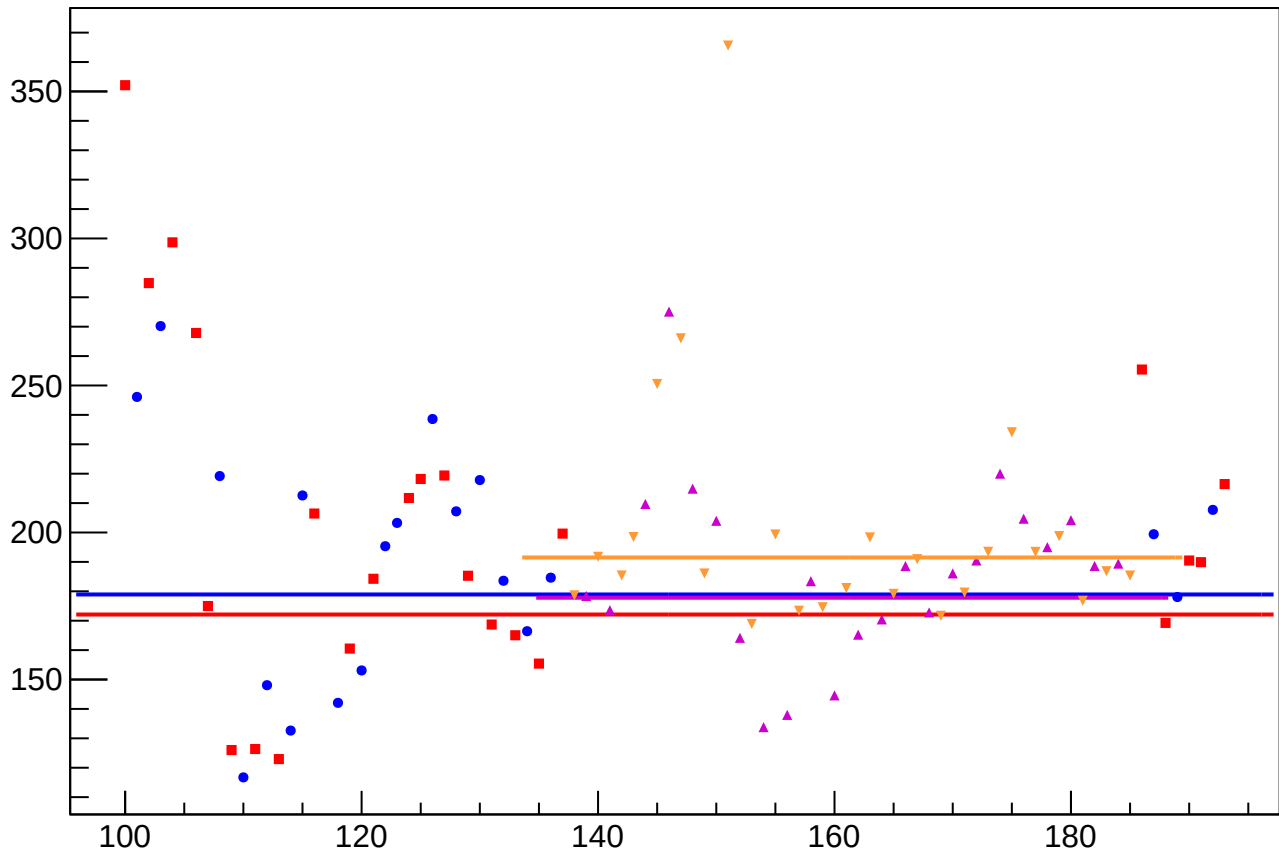
Right: 6852.514+/-43.078 χ^2/NDF : 120147.0/43

In: -6023.997+/-36.360 χ^2/NDF : 110680.2/42

Out: -3375.643+/-35.746 χ^2/NDF : 197806.2/48

All: -4677.266+/-25.490 χ^2/NDF : 311184.2/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.926+/-0.046 χ^2/NDF : 730087.3/19

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 172.107+/-0.041 χ^2/NDF : 1093988.1/23

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

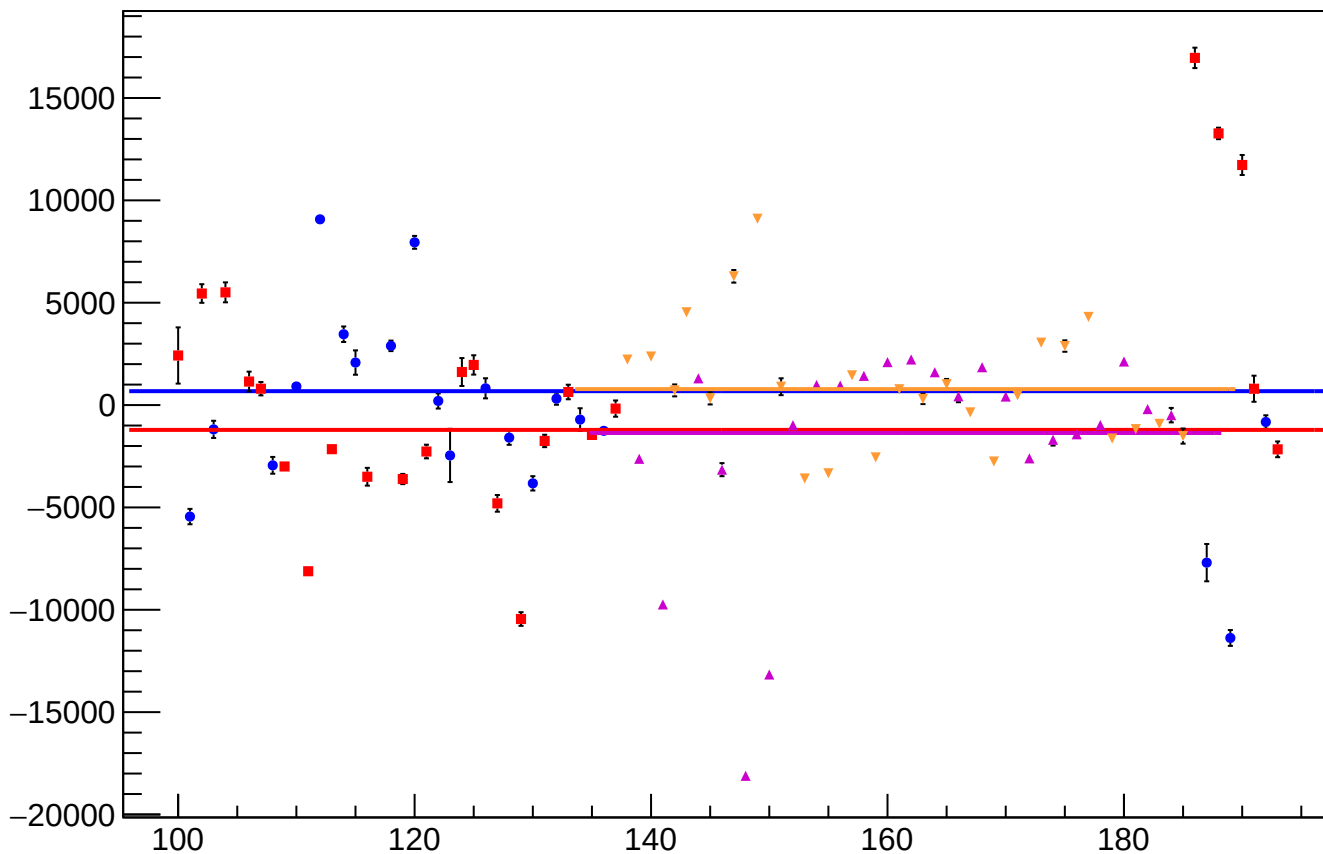
Right: 175.126+/-0.030 χ^2/NDF : 1836436.7/43

In: 178.170+/-0.026 χ^2/NDF : 1592979.8/42

Out: 184.063+/-0.025 χ^2/NDF : 1960540.4/48

All: 181.166+/-0.018 χ^2/NDF : 3580235.2/91

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 678.890 ± 73.629 $\chi^2/\text{NDF}: 3787.8/19$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -1213.011 ± 65.358 $\chi^2/\text{NDF}: 7669.6/23$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

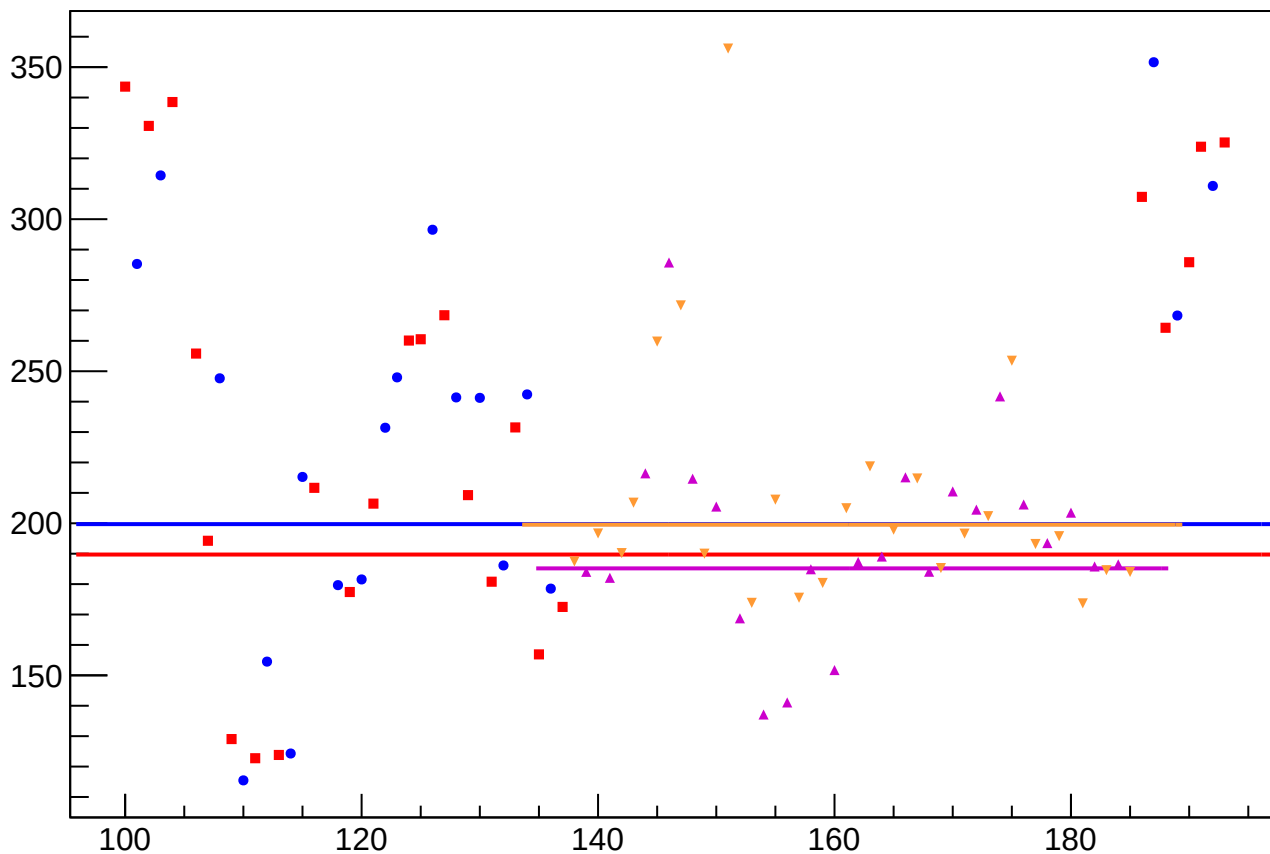
Right: -379.237 ± 48.879 $\chi^2/\text{NDF}: 11826.6/43$

In: -793.255 ± 38.894 $\chi^2/\text{NDF}: 15975.2/42$

Out: 91.959 ± 38.402 $\chi^2/\text{NDF}: 12539.2/48$

All: -345.010 ± 27.326 $\chi^2/\text{NDF}: 28776.6/91$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.724 ± 0.052 $\chi^2/\text{NDF}: 1360276.6/19$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 189.723 ± 0.046 $\chi^2/\text{NDF}: 2048642.0/23$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

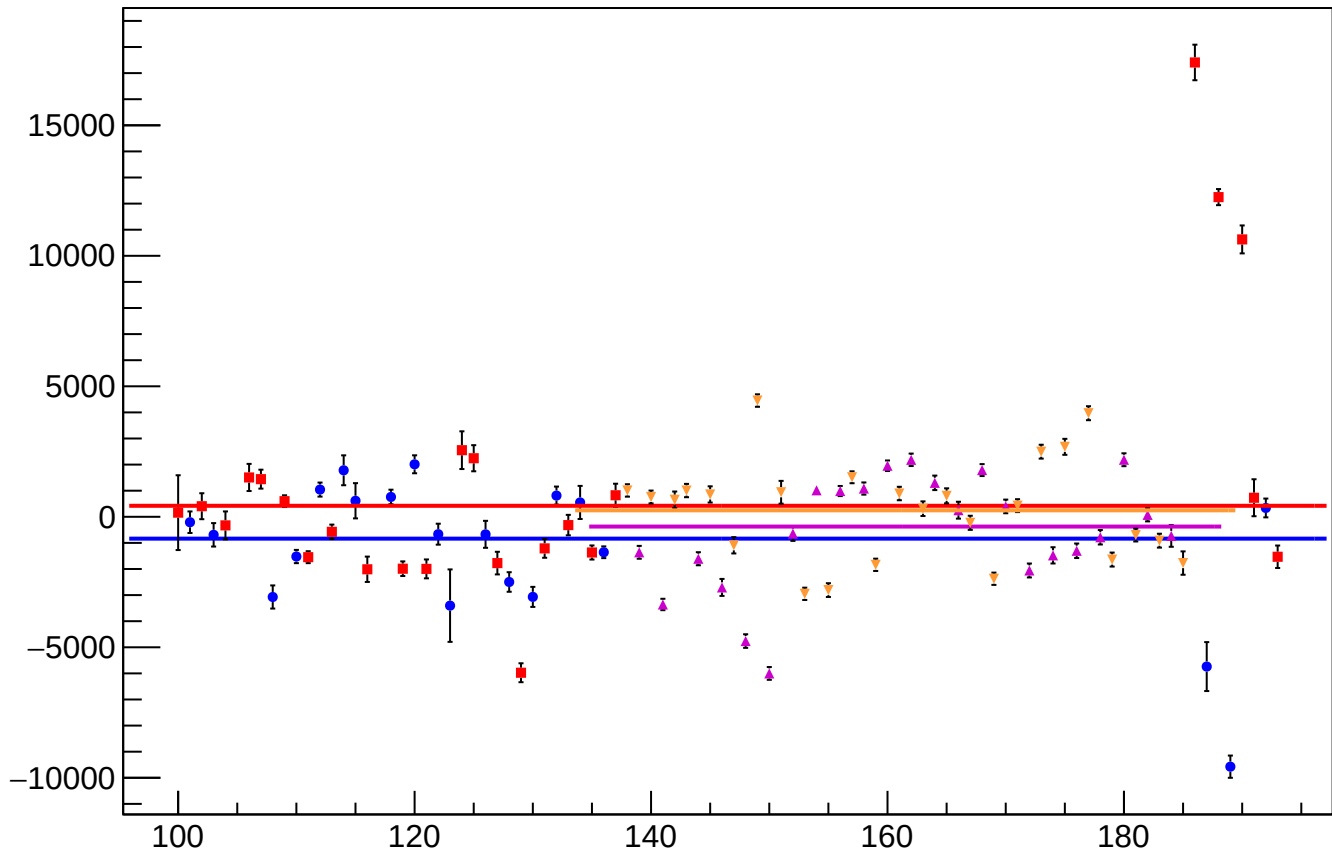
Right: 194.131 ± 0.035 $\chi^2/\text{NDF}: 3429557.1/43$

In: 189.232 ± 0.028 $\chi^2/\text{NDF}: 2299366.9/42$

Out: 196.155 ± 0.027 $\chi^2/\text{NDF}: 2807582.1/48$

All: 192.738 ± 0.019 $\chi^2/\text{NDF}: 5139042.5/91$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -836.936 ± 84.156 $\chi^2/\text{NDF}: 759.4/19$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 421.606 ± 76.375 $\chi^2/\text{NDF}: 3150.8/23$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

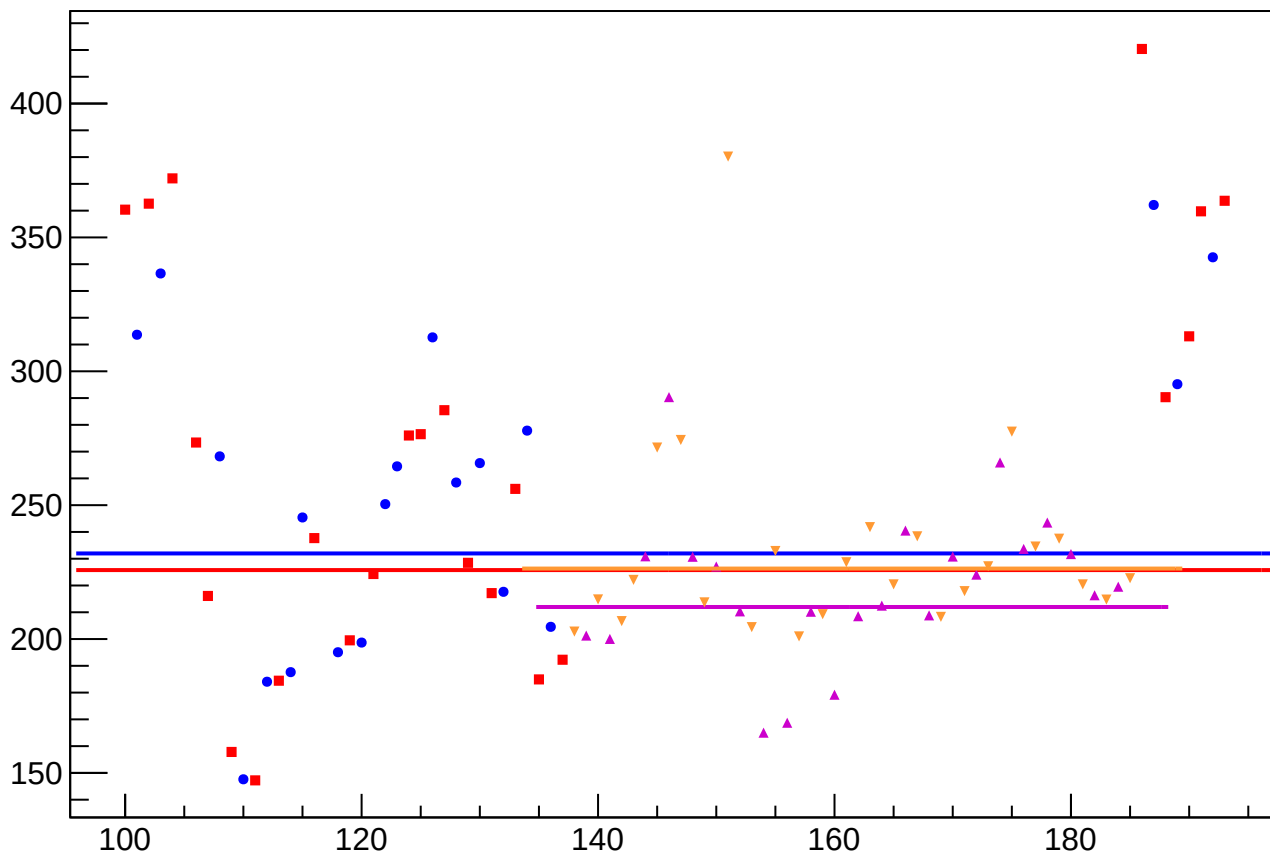
Right: -146.811 ± 56.557 $\chi^2/\text{NDF}: 4032.8/43$

In: -502.175 ± 44.267 $\chi^2/\text{NDF}: 2582.3/42$

Out: 305.119 ± 43.849 $\chi^2/\text{NDF}: 4509.3/48$

All: -94.702 ± 31.153 $\chi^2/\text{NDF}: 7259.5/91$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 231.969 ± 0.060 $\chi^2/\text{NDF}: 945257.7/19$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 225.756 ± 0.054 $\chi^2/\text{NDF}: 1539234.0/23$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

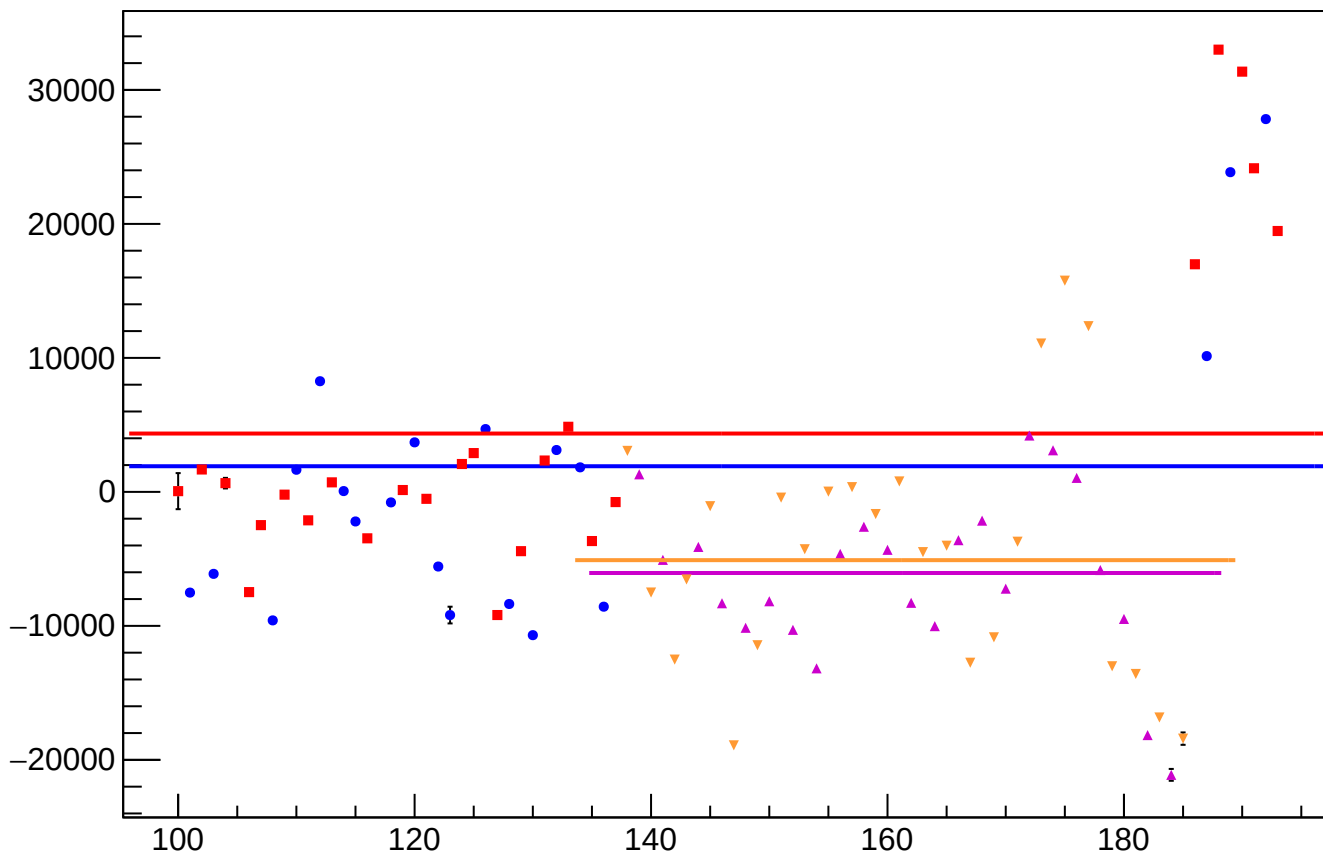
Right: 228.562 ± 0.040 $\chi^2/\text{NDF}: 2490469.0/43$

In: 217.504 ± 0.031 $\chi^2/\text{NDF}: 1611300.5/42$

Out: 226.135 ± 0.031 $\chi^2/\text{NDF}: 2060349.2/48$

All: 221.860 ± 0.022 $\chi^2/\text{NDF}: 3710033.5/91$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1914.132+/-43.764 χ^2/NDF : 66286.8/19

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 4354.569+/-40.037 χ^2/NDF : 87720.0/23

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

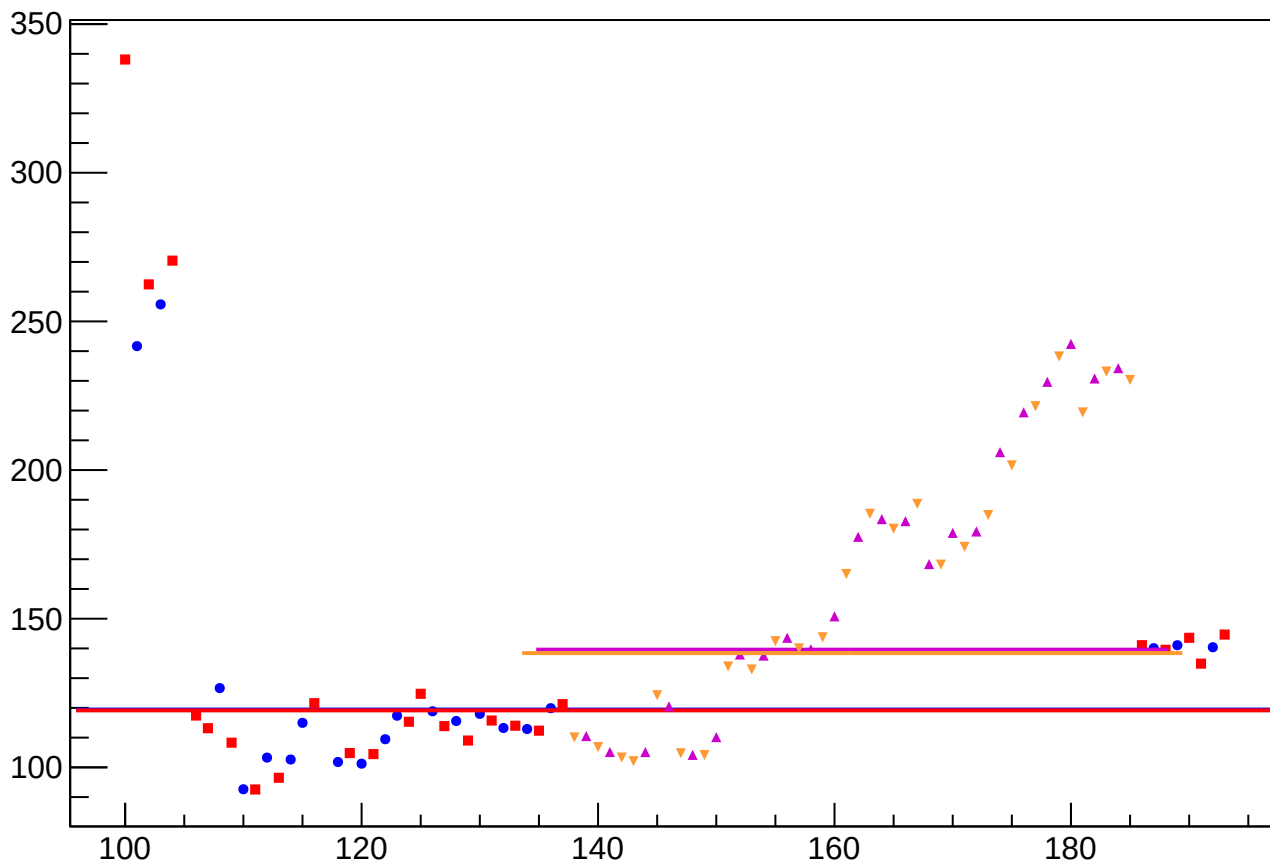
Right: 3242.664+/-29.540 χ^2/NDF : 155699.5/43

In: -2945.642+/-27.333 χ^2/NDF : 104094.0/42

Out: -1176.102+/-25.784 χ^2/NDF : 174719.7/48

All: -2009.317+/-18.756 χ^2/NDF : 281031.5/9

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 119.434 $\pm$ 0.031 χ^2 /NDF: 824616.6/19

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF: 2549435.8/24

Right Out: 119.166 $\pm$ 0.028 χ^2 /NDF: 955369.8/23

Left In: 139.578 $\pm$ 0.025 χ^2 /NDF: 2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2 /NDF: 4964199.7/47

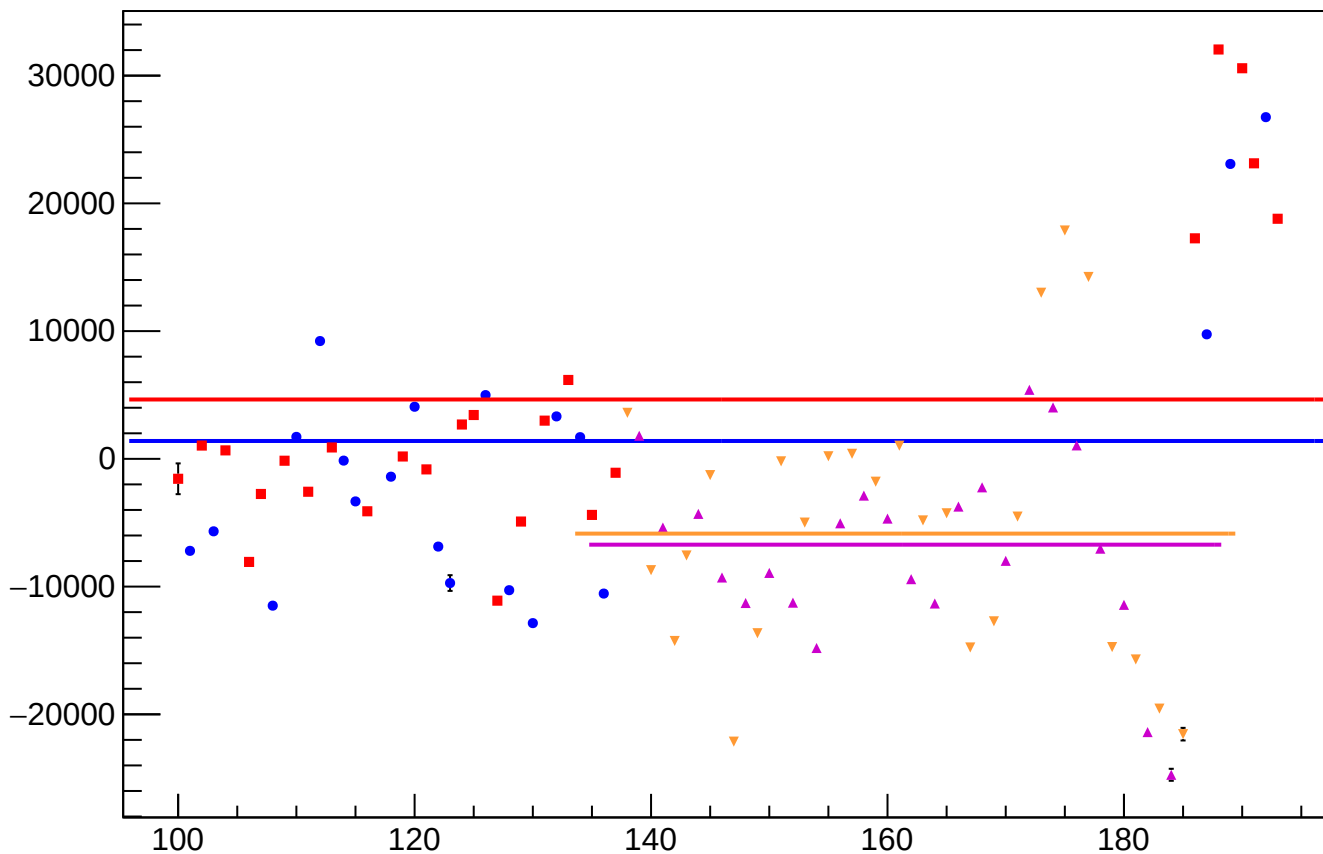
Right: 119.288 $\pm$ 0.021 χ^2 /NDF: 1780027.1/43

In: 131.720 $\pm$ 0.019 χ^2 /NDF: 3496715.8/42

Out: 130.444 $\pm$ 0.018 χ^2 /NDF: 3775946.5/48

All: 131.045 $\pm$ 0.013 χ^2 /NDF: 7274970.3/91

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1398.755+/-44.390 χ^2/NDF : 71278.6/19

Left Out: -5852.544+/-35.880 χ^2/NDF : 63411.4/24

Right Out: 4647.488+/-40.740 χ^2/NDF : 89504.6/23

Left In: -6718.475+/-37.276 χ^2/NDF : 20934.3/22

Left: -6268.993+/-25.850 χ^2/NDF : 84625.8/47

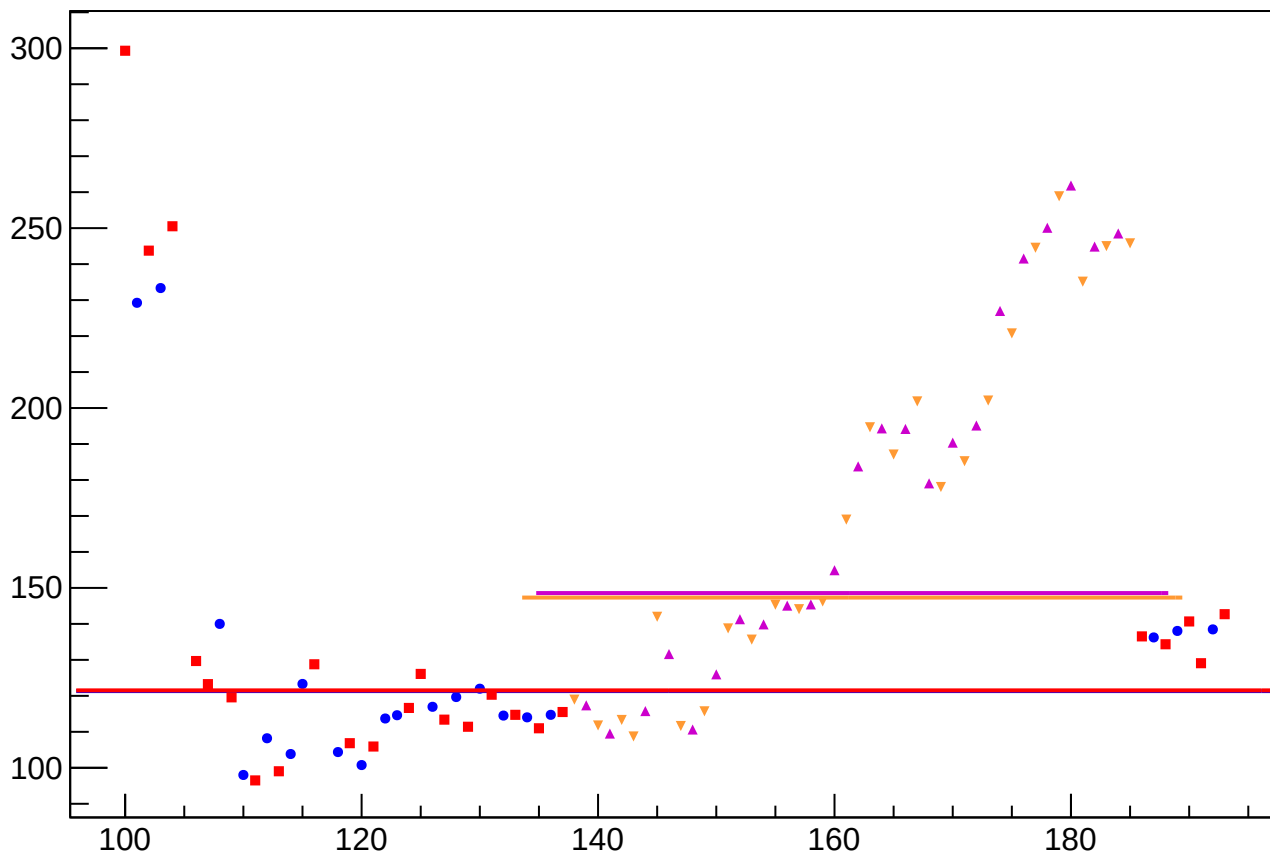
Right: 3162.131+/-30.015 χ^2/NDF : 163690.5/43

In: -3361.637+/-28.546 χ^2/NDF : 111823.4/42

Out: -1265.939+/-26.926 χ^2/NDF : 190325.6/48

All: -2252.651+/-19.587 χ^2/NDF : 305001.2/9

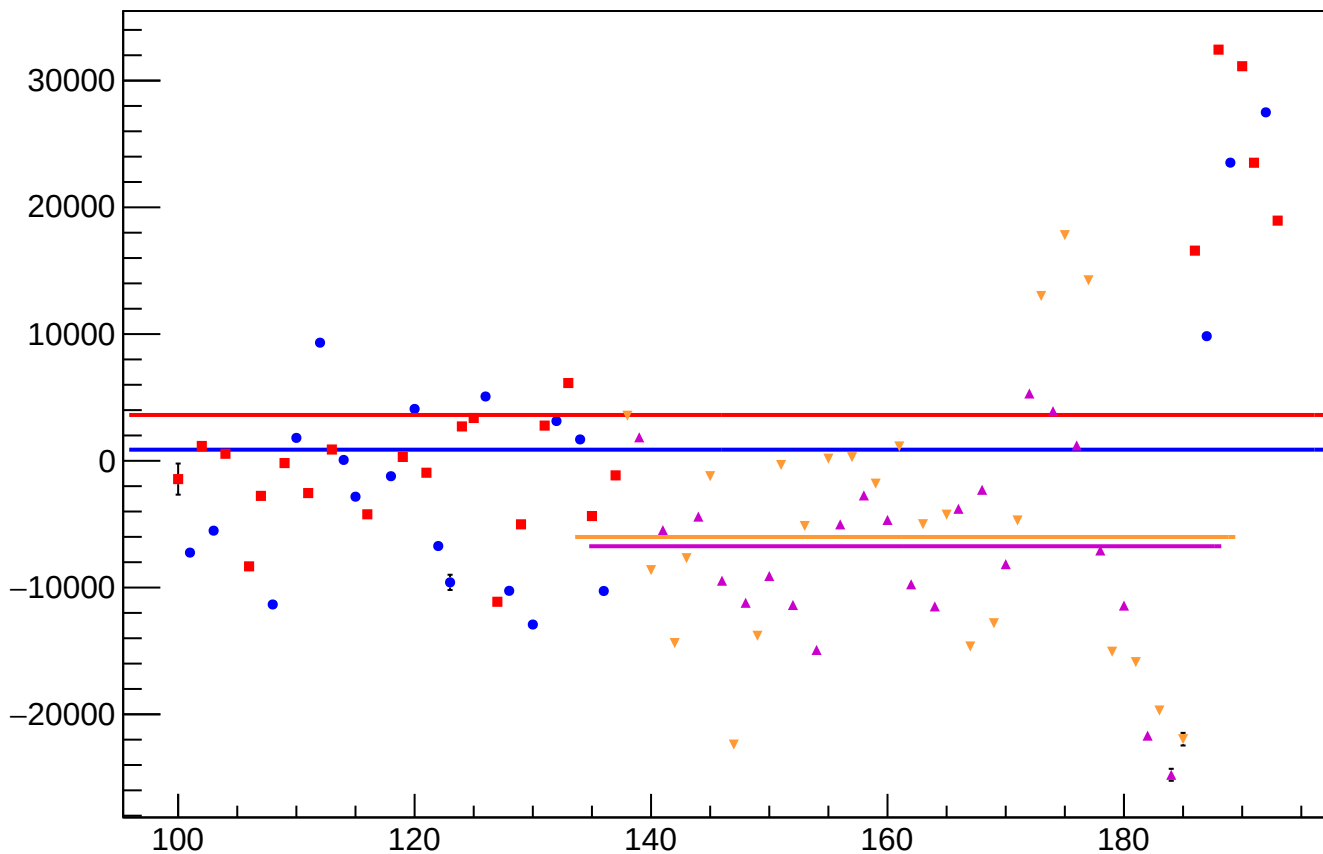
asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 121.324+/-0.031 χ^2/NDF : 689879.9/19
 Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24
 Right Out: 121.519+/-0.029 χ^2/NDF : 780114.7/23
 Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47
 Right: 121.430+/-0.021 χ^2/NDF : 1470015.6/43
 In: 137.302+/-0.020 χ^2/NDF : 3524903.0/42
 Out: 136.048+/-0.019 χ^2/NDF : 3743450.1/48
 All: 136.638+/-0.014 χ^2/NDF : 7270394.3/91

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 879.118 $\pm$ 43.269 χ^2/NDF : 69833.5/19

Left Out: -6009.913 $\pm$ 35.082 χ^2/NDF : 67852.2/24

Right Out: 3618.121 $\pm$ 39.982 χ^2/NDF : 83496.8/23

Left In: -6740.666 $\pm$ 36.379 χ^2/NDF : 22071.8/22

Left: -6362.031 $\pm$ 25.253 χ^2/NDF : 90133.1/47

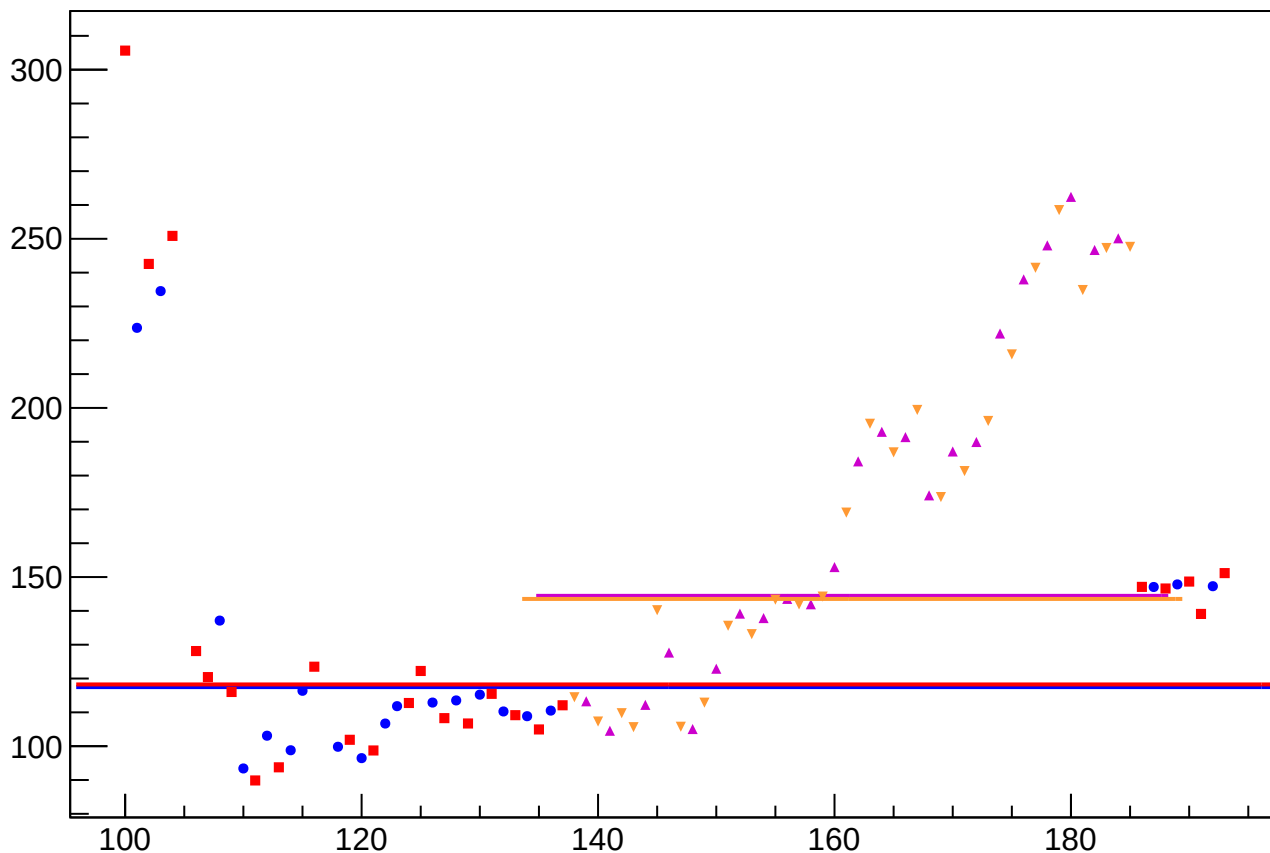
Right: 2356.572 $\pm$ 29.365 χ^2/NDF : 155491.9/43

In: -3584.960 $\pm$ 27.845 χ^2/NDF : 110074.2/42

Out: -1821.716 $\pm$ 26.370 χ^2/NDF : 184112.3/48

All: -2655.402 $\pm$ 19.147 χ^2/NDF : 296300.5/9

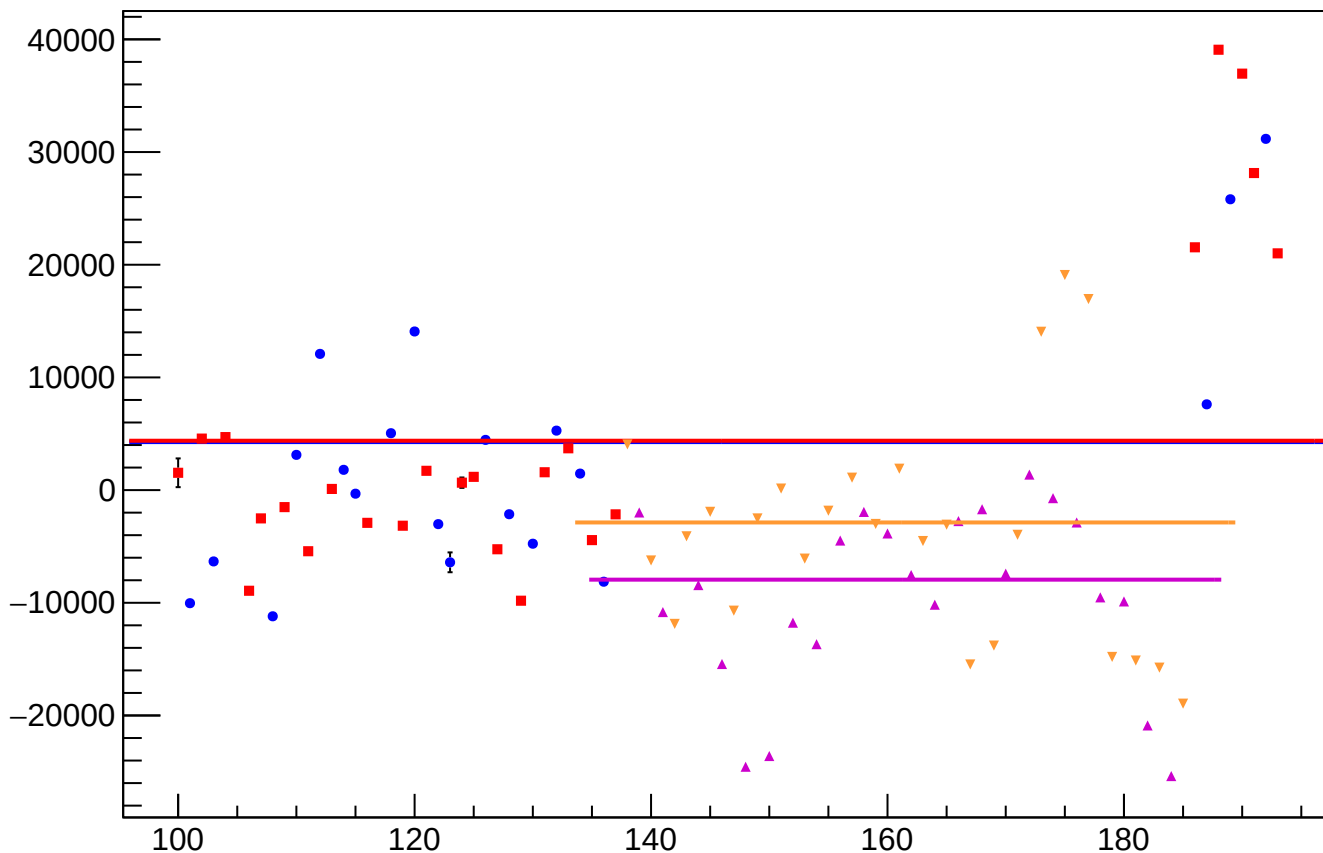
asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 117.468 $\pm$ 0.031 χ^2 /NDF: 825274.2/19
 Left Out: 143.531 $\pm$ 0.025 χ^2 /NDF: 2704790.3/24
 Right Out: 118.252 $\pm$ 0.028 χ^2 /NDF: 1014412.9/23
 Left In: 144.440 $\pm$ 0.026 χ^2 /NDF: 2586926.1/22

Left: 143.969 $\pm$ 0.018 χ^2 /NDF: 5292363.3/47
 Right: 117.891 $\pm$ 0.021 χ^2 /NDF: 1840041.9/43
 In: 133.269 $\pm$ 0.020 χ^2 /NDF: 3867506.1/42
 Out: 132.534 $\pm$ 0.019 χ^2 /NDF: 4170899.0/48
 All: 132.882 $\pm$ 0.014 χ^2 /NDF: 8039139.2/91

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 4260.834+/-52.156 χ^2/NDF : 51425.3/19

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 4381.617+/-48.236 χ^2/NDF : 82019.5/23

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

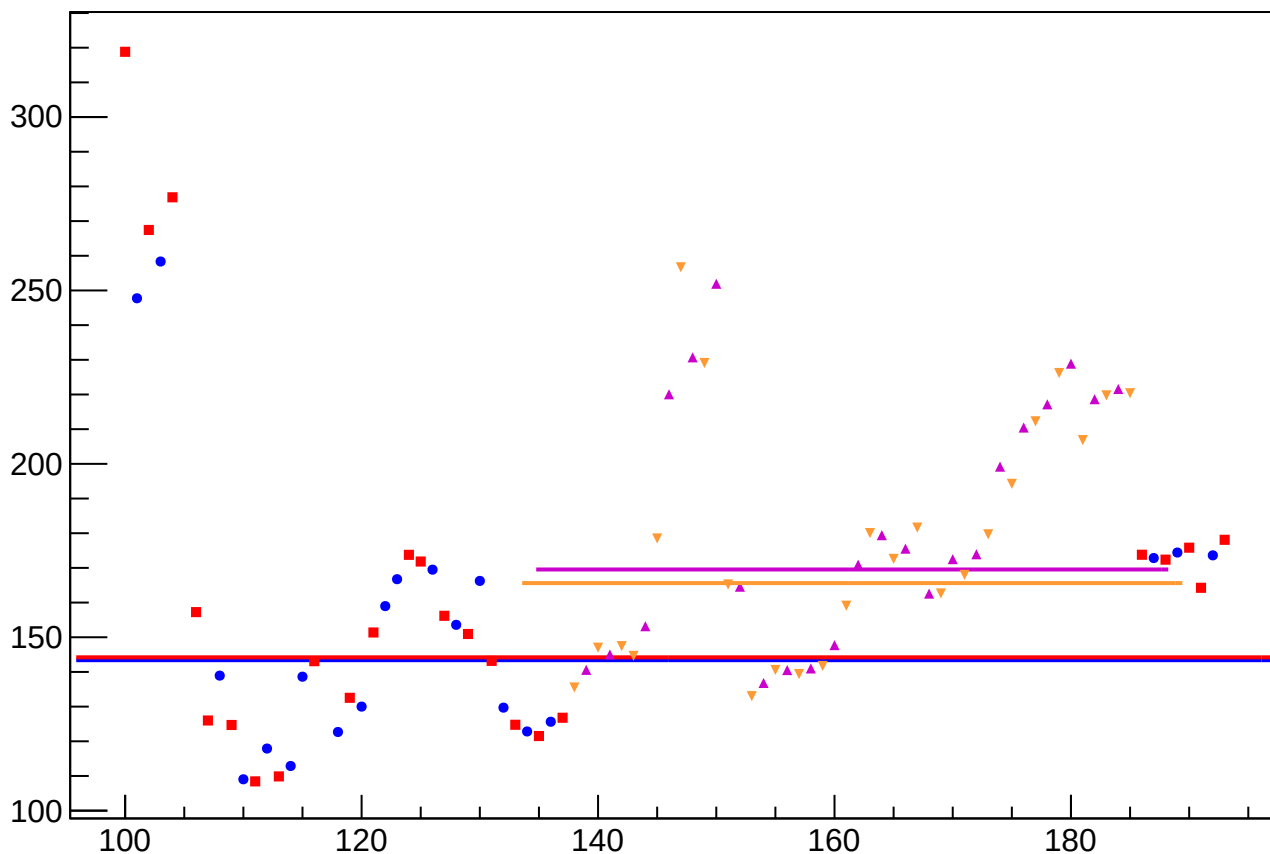
Right: 4325.934+/-35.413 χ^2/NDF : 133447.7/43

In: -3182.920+/-32.582 χ^2/NDF : 108706.3/42

Out: 38.951+/-30.553 χ^2/NDF : 141975.1/48

All: -1468.526+/-22.287 χ^2/NDF : 255884.5/9

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 143.389+/-0.037 χ^2/NDF : 775869.4/19

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 144.213+/-0.034 χ^2/NDF : 939264.5/23

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

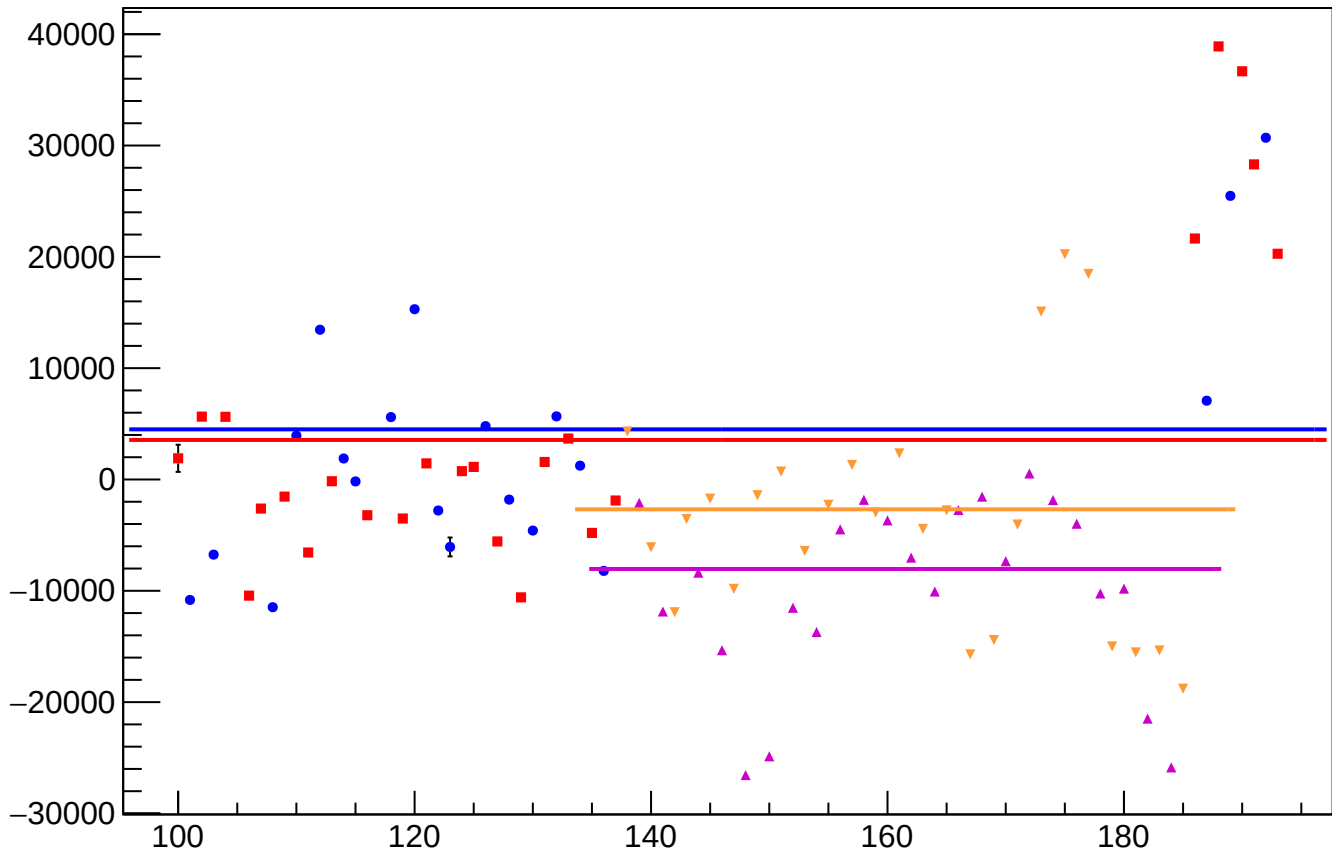
Right: 143.833+/-0.025 χ^2/NDF : 1715403.2/43

In: 159.335+/-0.023 χ^2/NDF :2241733.8/42

Out: 157.030+/-0.022 χ^2/NDF :2319830.4/48

All: 158.109+/-0.016 χ^2/NDF : 4566893.1/91

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 4503.210+/-43.588 χ^2/NDF : 71478.9/19

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: 3551.509+/-39.993 χ^2/NDF : 115006.9/23

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

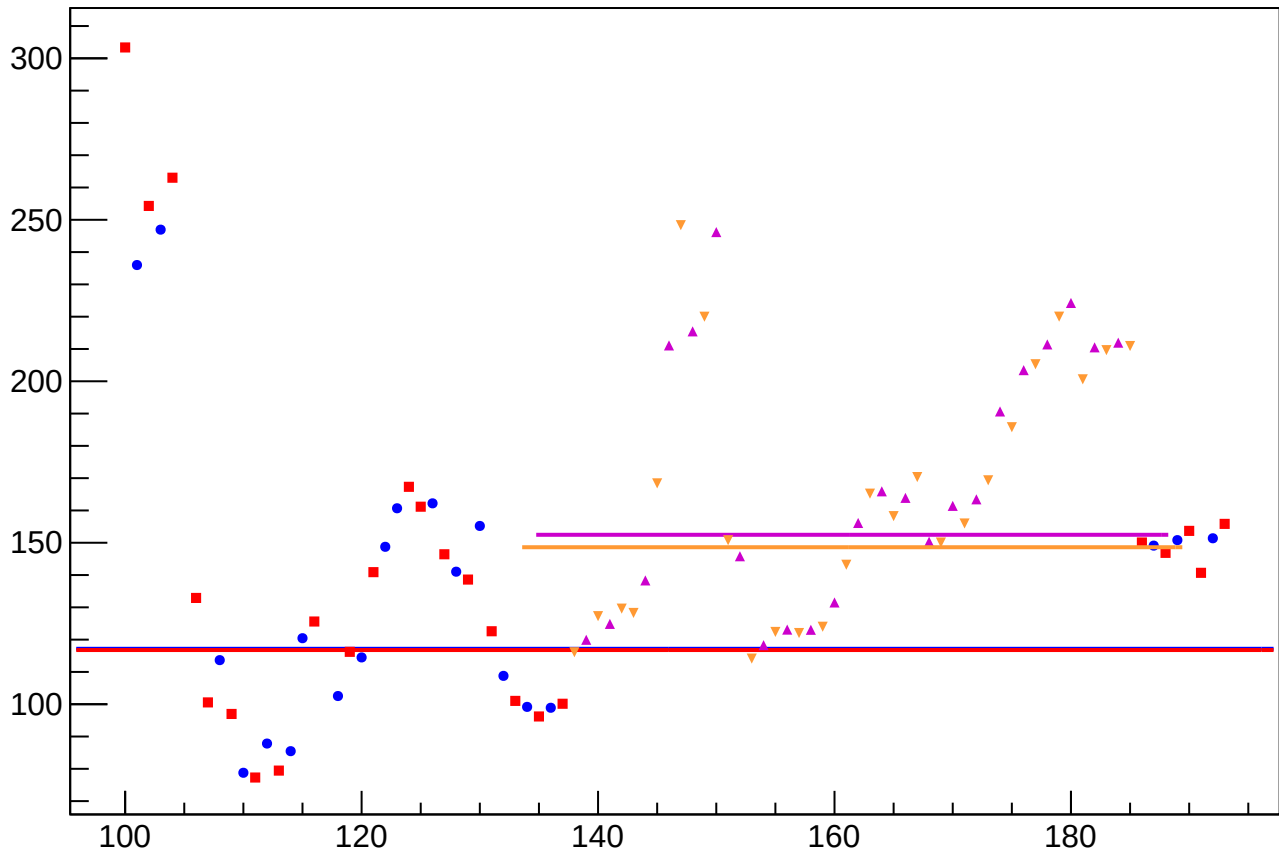
Right: 3986.506+/-29.468 χ^2/NDF : 186744.6/43

In: -2633.867+/-28.611 χ^2/NDF : 147848.3/42

Out: 88.924+/-26.659 χ^2/NDF : 185317.7/48

All: -1176.442+/-19.504 χ^2/NDF : 338013.8/9

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 117.160 ± 0.031 $\chi^2/\text{NDF}: 1298551.4/19$

Left Out: 148.611 ± 0.025 $\chi^2/\text{NDF}: 1685424.1/24$

Right Out: 116.779 ± 0.028 $\chi^2/\text{NDF}: 1575076.3/23$

Left In: 152.463 ± 0.027 $\chi^2/\text{NDF}: 1691517.7/22$

Left: 150.424 ± 0.018 $\chi^2/\text{NDF}: 3387867.0/47$

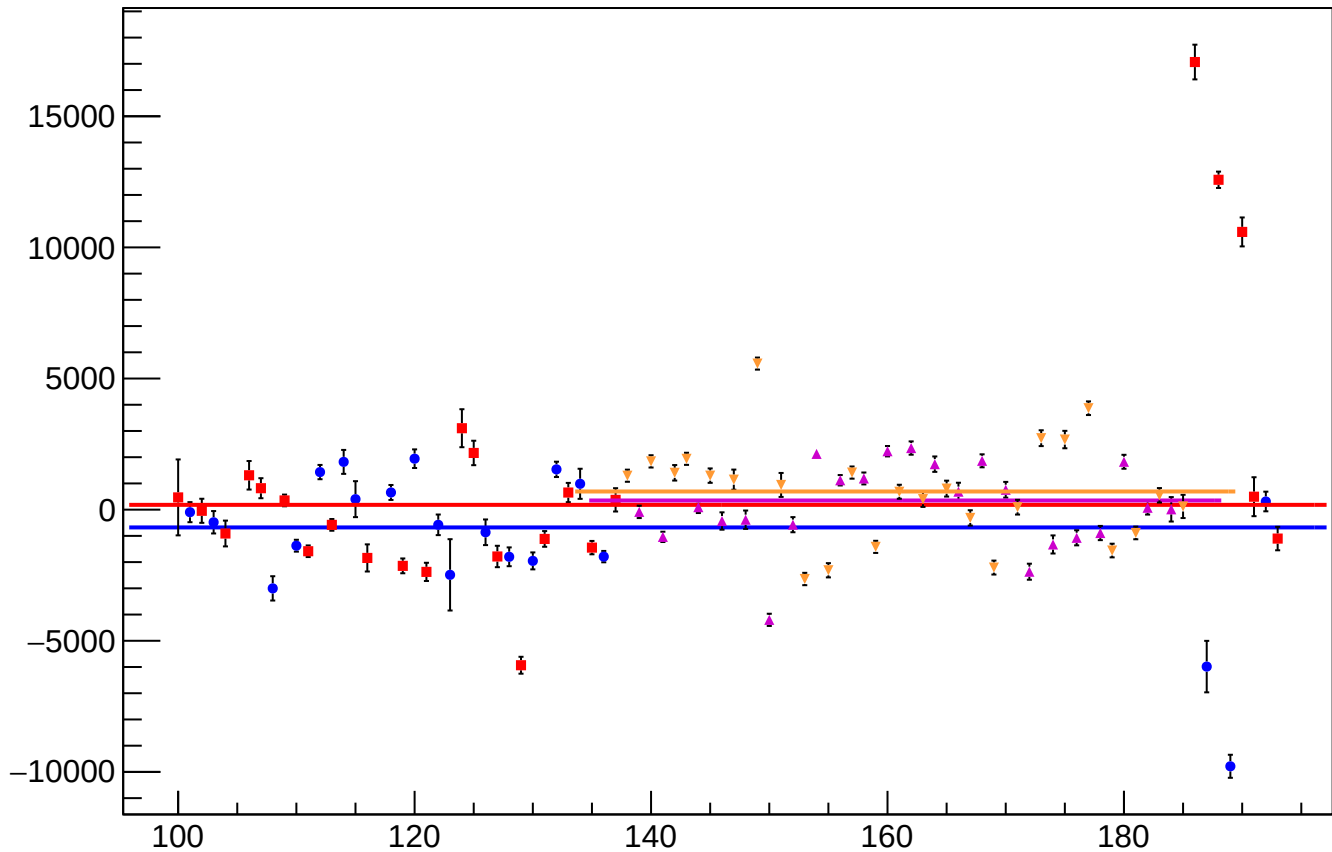
Right: 116.953 ± 0.021 $\chi^2/\text{NDF}: 2873710.8/43$

In: 137.253 ± 0.020 $\chi^2/\text{NDF}: 3736805.5/42$

Out: 134.466 ± 0.019 $\chi^2/\text{NDF}: 3964542.5/48$

All: 135.761 ± 0.014 $\chi^2/\text{NDF}: 7711501.0/91$

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -677.659 ± 80.317 $\chi^2/\text{NDF}: 791.9/19$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 183.053 ± 72.832 $\chi^2/\text{NDF}: 3301.0/23$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

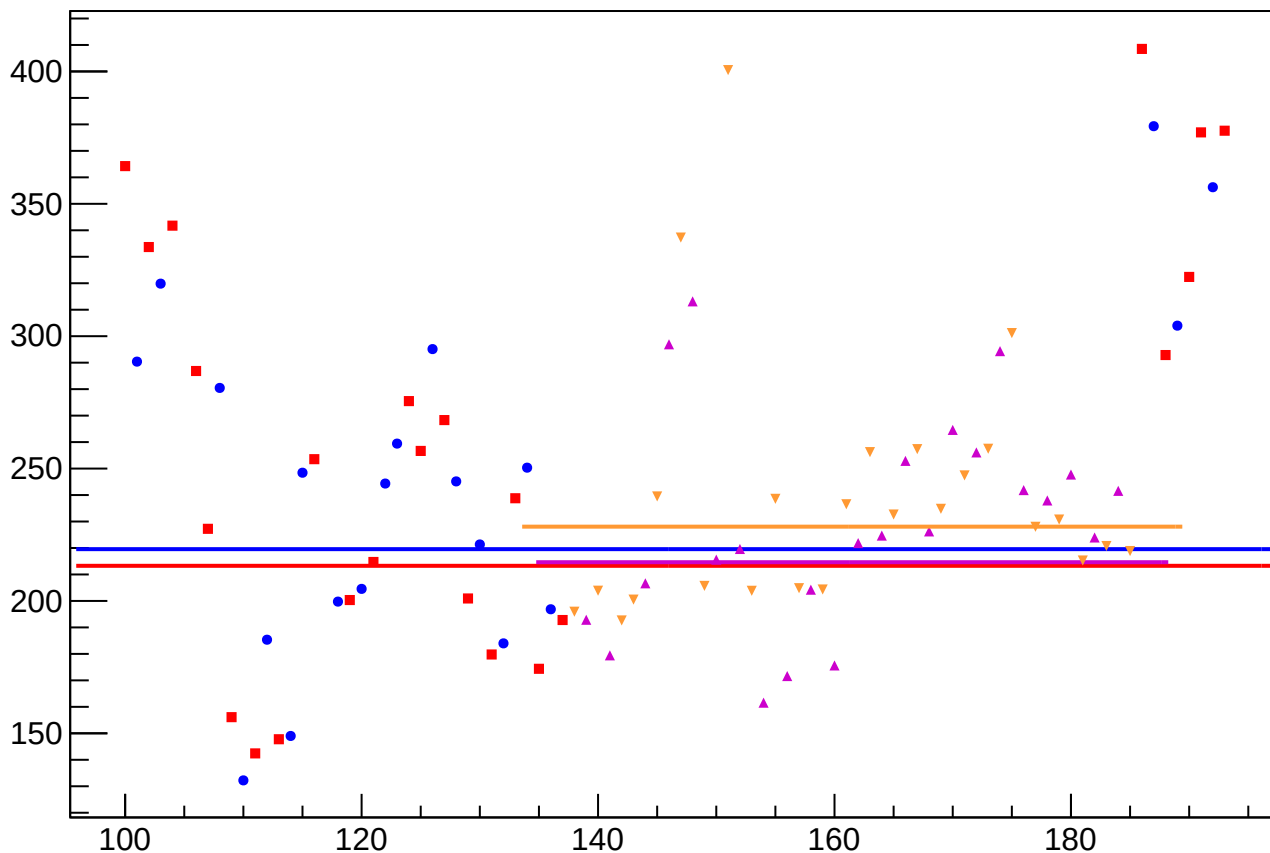
Right: -205.339 ± 53.953 $\chi^2/\text{NDF}: 4155.9/43$

In: 37.223 ± 44.291 $\chi^2/\text{NDF}: 1886.7/42$

Out: 510.800 ± 43.535 $\chi^2/\text{NDF}: 4754.5/48$

All: 278.091 ± 31.048 $\chi^2/\text{NDF}: 6699.4/91$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.564 $\pm$ 0.057 χ^2 /NDF: 1125210.3/19

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF:826343.8/24

Right Out: 213.271 $\pm$ 0.052 χ^2 /NDF: 1766530.4/23

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF:1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2 /NDF: 1914604.4/47

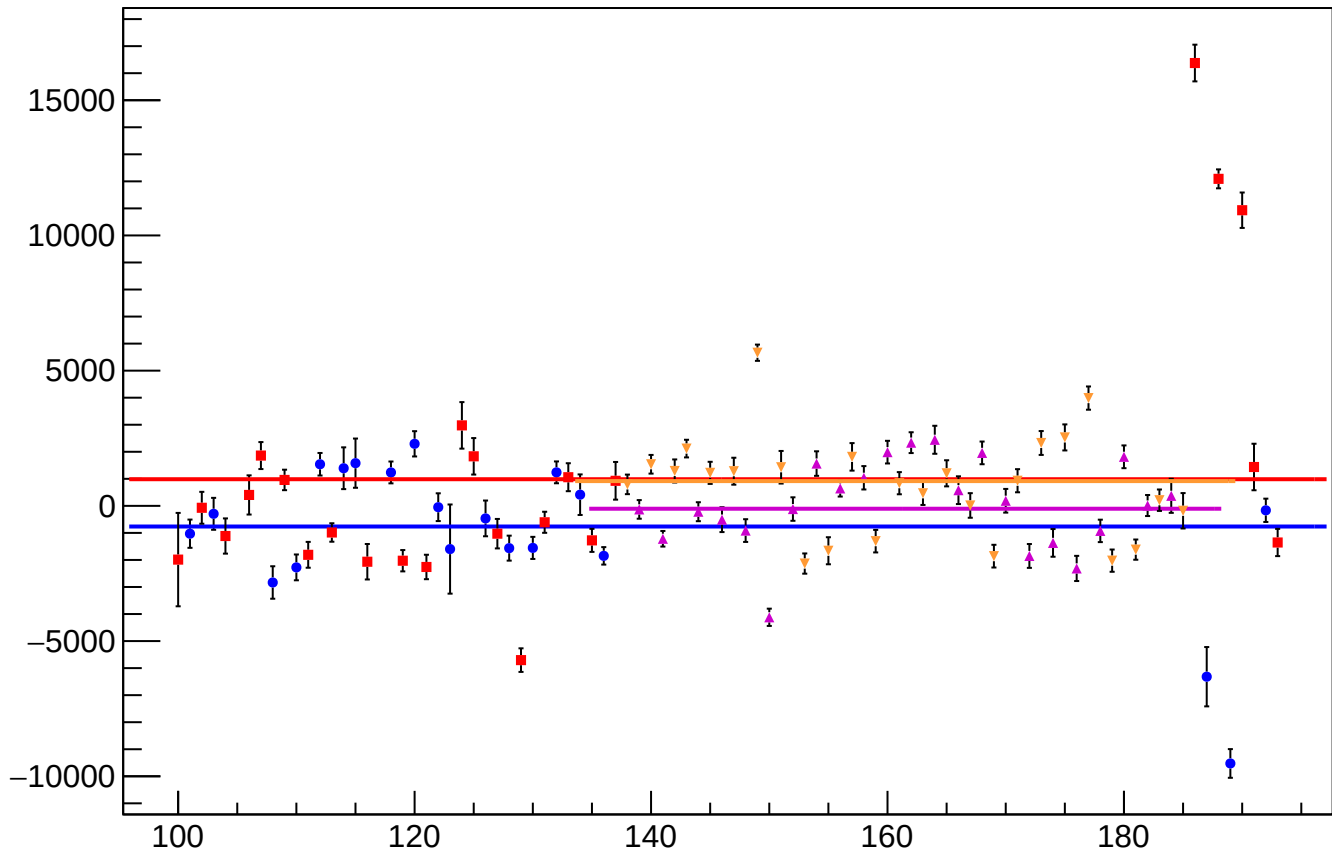
Right: 216.111 $\pm$ 0.038 χ^2 /NDF: 2898477.1/43

In: 216.128 $\pm$ 0.031 χ^2 /NDF:2156151.4/42

Out: 222.777 $\pm$ 0.031 χ^2 /NDF:2645878.6/48

All: 219.510 $\pm$ 0.022 χ^2 /NDF: 4824950.3/91

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -763.693+/-113.637 χ^2/NDF : 482.9/19

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 985.309+/-103.633 χ^2/NDF : 2292.3/23

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

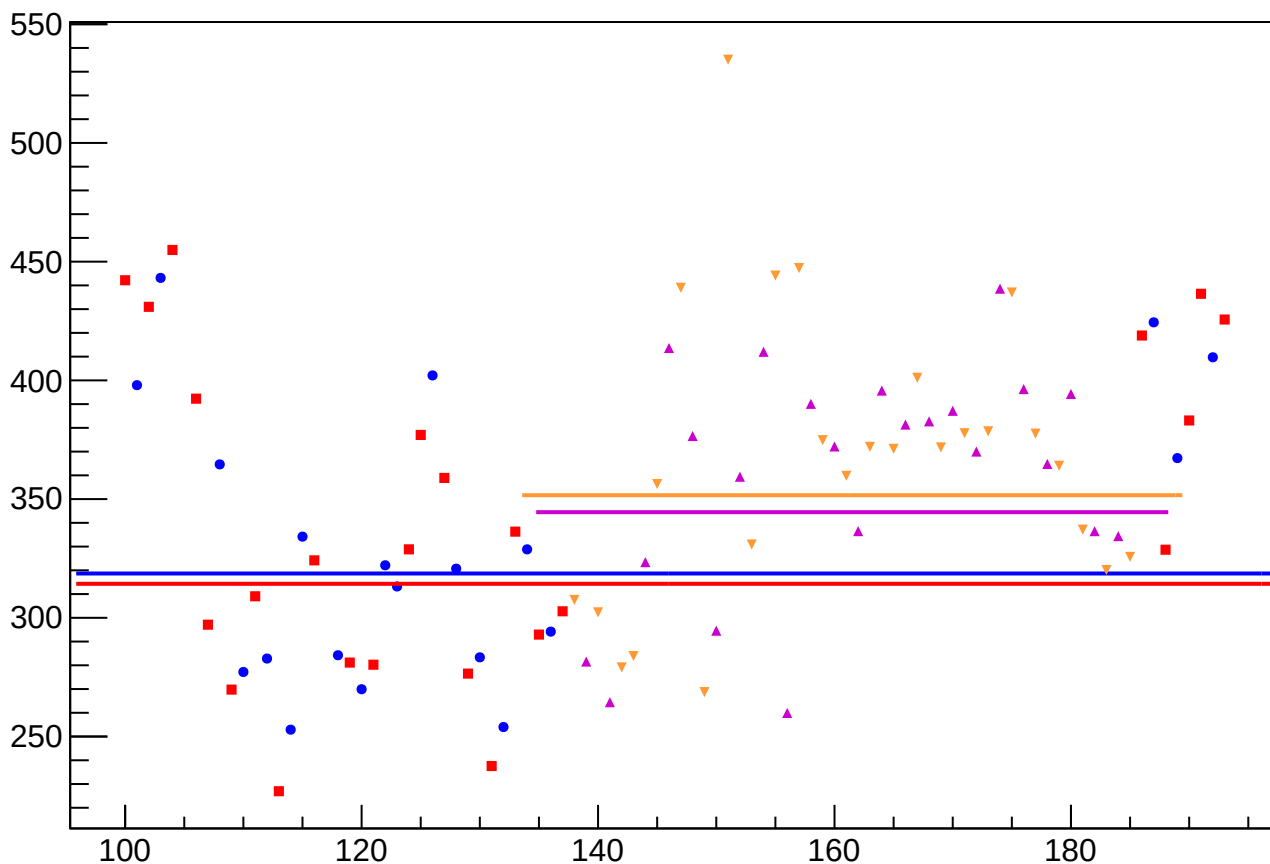
Right: 191.169+/-76.572 χ^2/NDF : 2904.5/43

In: -339.871+/-67.752 χ^2/NDF : 894.7/42

Out: 943.223+/-64.972 χ^2/NDF : 2910.8/48

All: 328.541+/-46.894 χ^2/NDF : 3992.4/91

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 318.665 ± 0.080 $\chi^2/\text{NDF}: 462899.9/19$

Left Out: 351.633 ± 0.059 $\chi^2/\text{NDF}: 907849.3/24$

Right Out: 314.322 ± 0.073 $\chi^2/\text{NDF}: 737162.2/23$

Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$

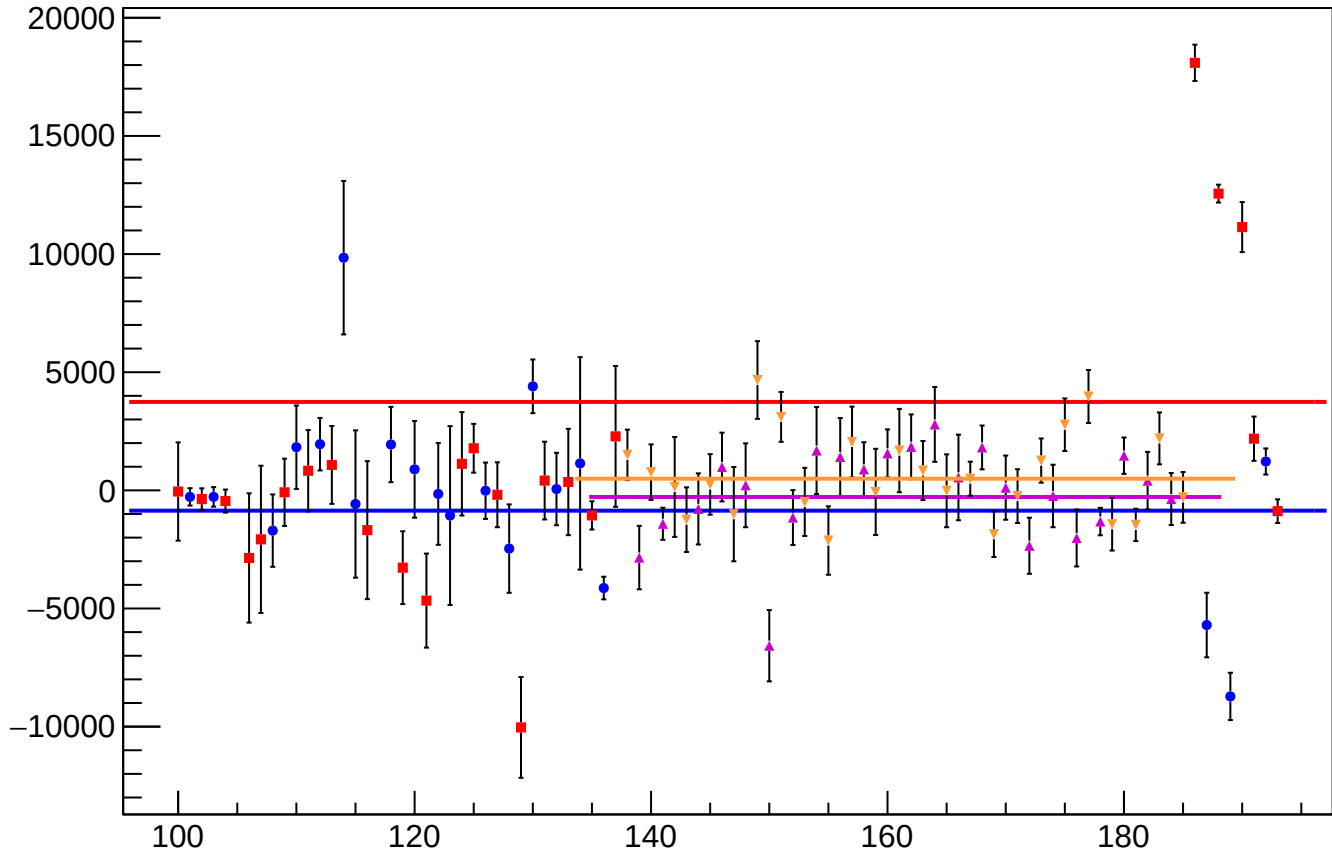
Right: 316.294 ± 0.054 $\chi^2/\text{NDF}: 1201657.2/43$

In: 335.310 ± 0.048 $\chi^2/\text{NDF}: 1298364.0/42$

Out: 336.967 ± 0.046 $\chi^2/\text{NDF}: 1802358.1/48$

All: 336.173 ± 0.033 $\chi^2/\text{NDF}: 3101345.3/91$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -859.142 ± 191.107 χ^2/NDF : 186.8/19

Left Out: 495.014 ± 231.058 χ^2/NDF : 56.2/24

Right Out: 3741.993 ± 177.955 χ^2/NDF : 1379.2/23

Left In: -280.692 ± 232.048 χ^2/NDF : 57.2/22

Left: 108.818 ± 163.732 χ^2/NDF : 119.1/47

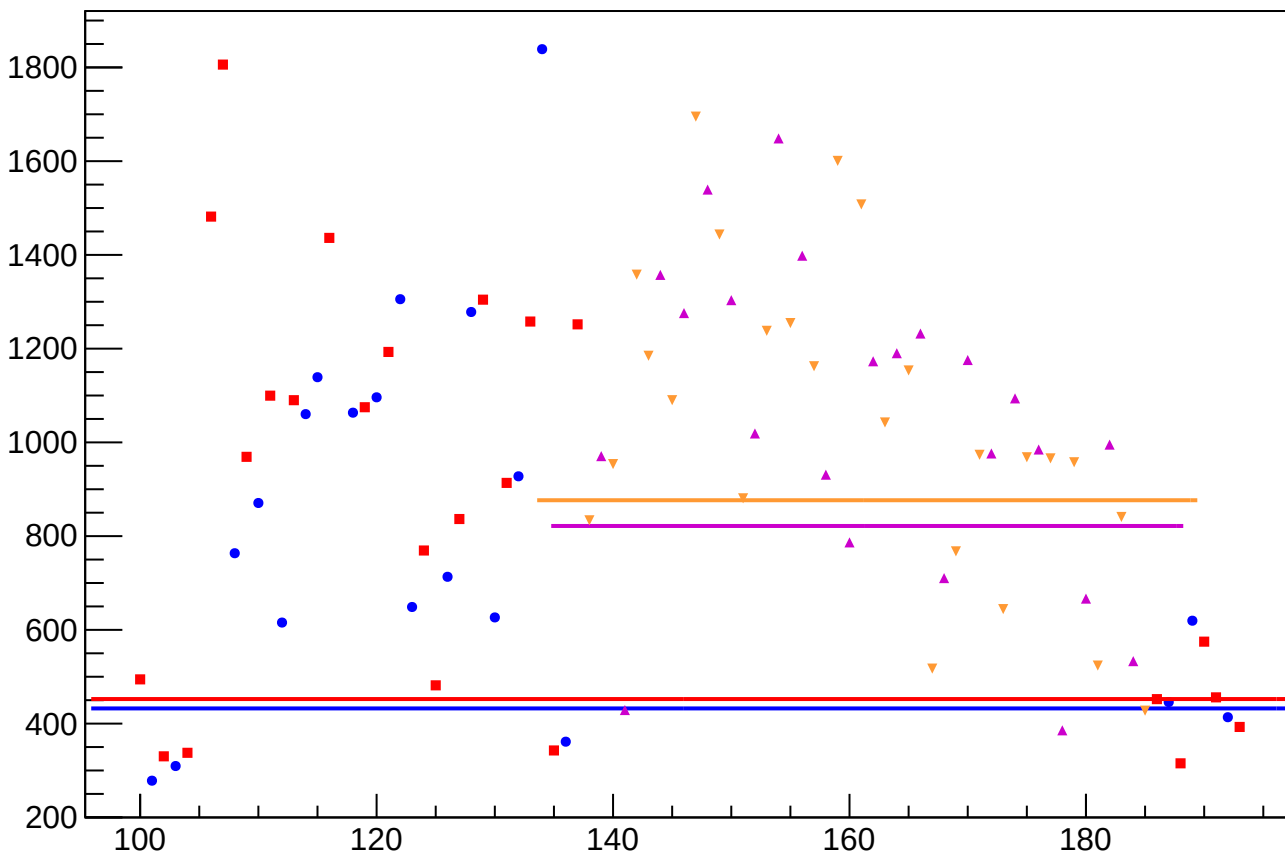
Right: 1605.193 ± 130.235 χ^2/NDF : 1876.5/43

In: -625.363 ± 147.519 χ^2/NDF : 247.8/42

Out: 2533.081 ± 140.987 χ^2/NDF : 1559.4/48

All: 1025.329 ± 101.924 χ^2/NDF : 2046.7/91

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 432.388+/-0.135 χ^2/NDF : 2936981.8/19

Left Out: 876.560+/-0.163 χ^2/NDF : 3434698.7/24

Right Out: 452.406+/-0.126 χ^2/NDF : 4055163.3/23

Left In: 821.657+/-0.164 χ^2/NDF : 4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

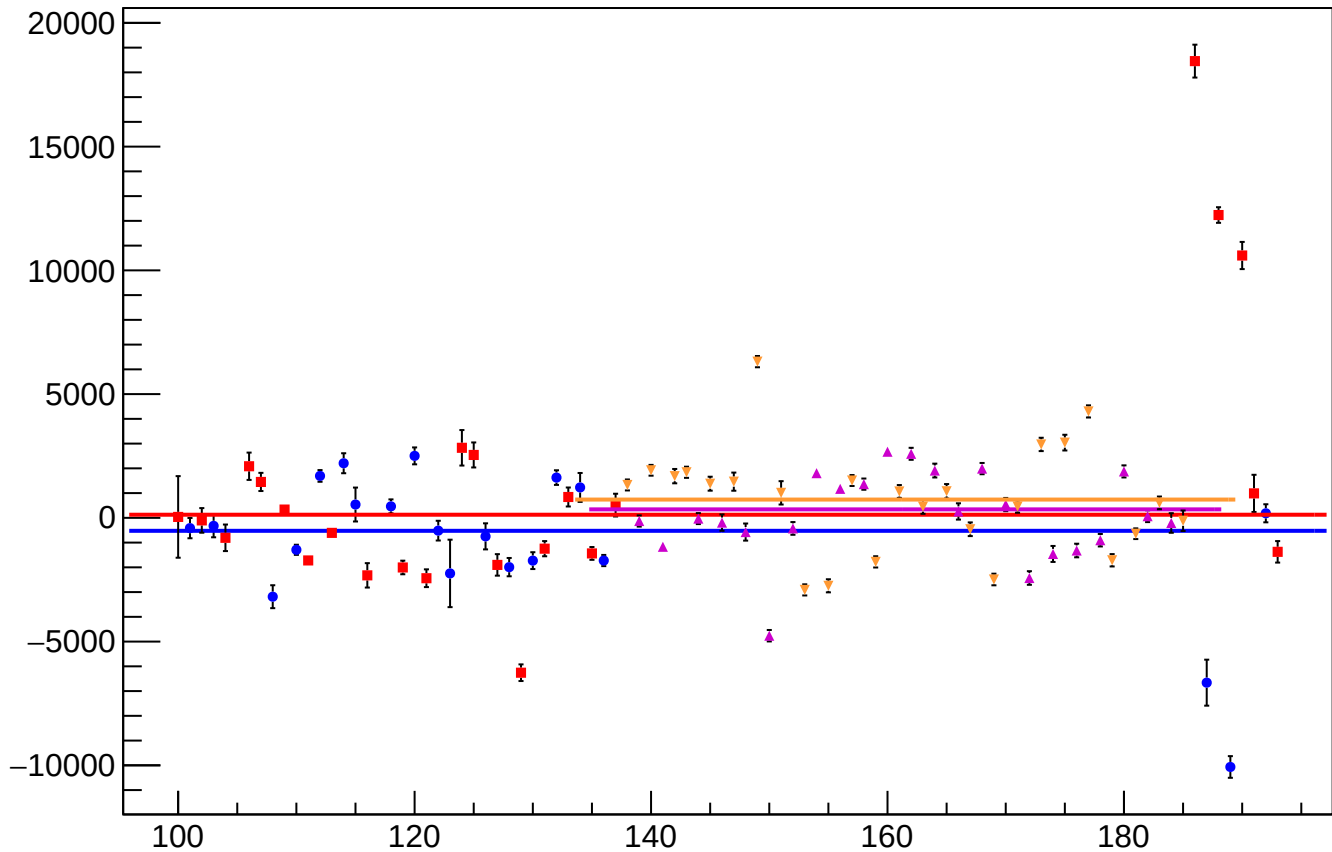
Right: 443.109+/-0.092 χ^2/NDF : 7003898.2/43

In: 589.710+/-0.104 χ^2/NDF : 10733709.6/42

Out: 610.327+/-0.100 χ^2/NDF : 11720189.5/48

All: 600.485+/-0.072 χ^2/NDF : 22474314.6/92

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -524.189+/-78.896 χ^2/NDF : 917.5/19

Left Out: 738.847+/-51.649 χ^2/NDF :1935.2/24

Right Out: 126.161+/-70.715 χ^2/NDF : 3358.0/23

Left In: 342.465+/-50.044 χ^2/NDF :1254.9/22

Left: 534.403+/-35.941 χ^2/NDF : 3220.5/47

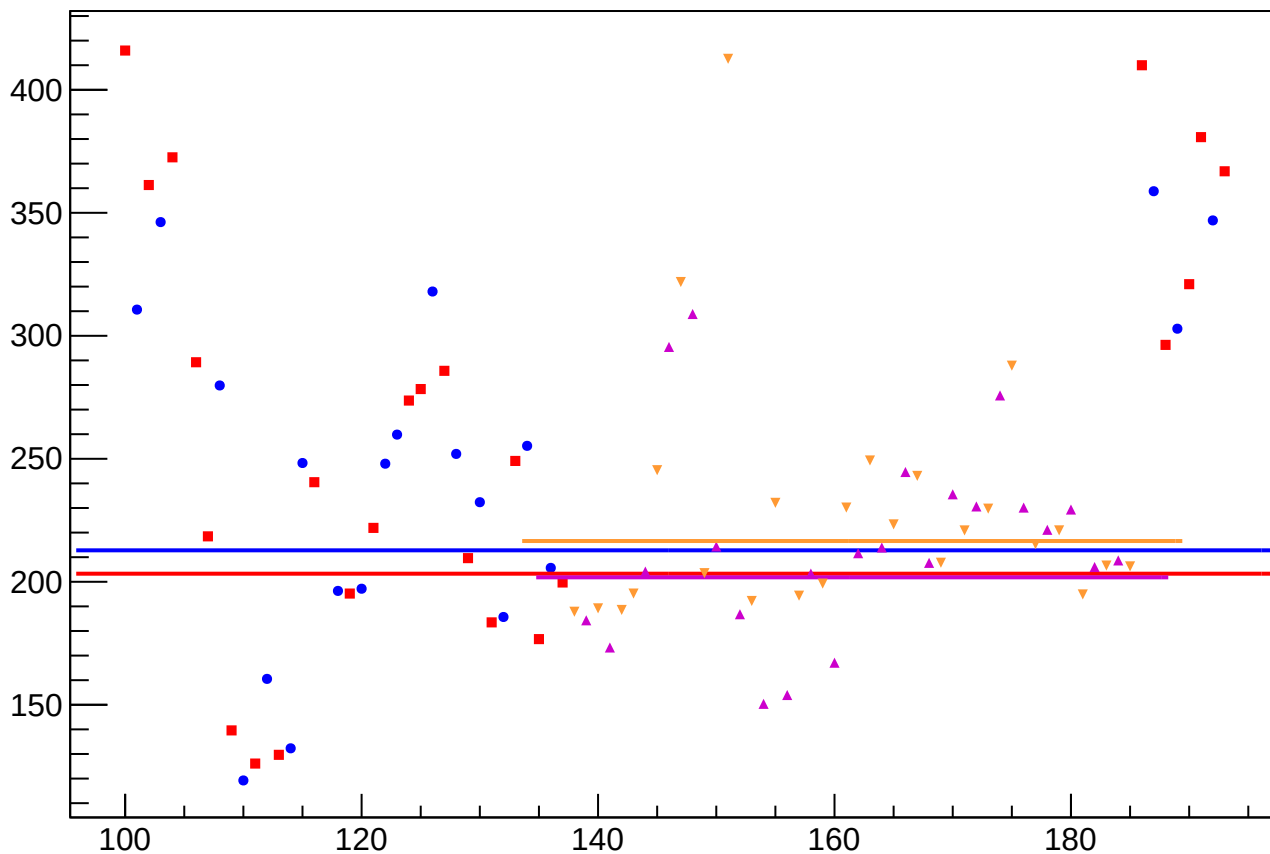
Right: -163.556+/-52.659 χ^2/NDF : 4313.1/43

In: 93.815+/-42.260 χ^2/NDF :2258.4/42

Out: 525.705+/-41.709 χ^2/NDF :5342.1/48

All: 312.596+/-29.685 χ^2/NDF : 7653.4/91

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 212.789 $\pm$ 0.056 χ^2/NDF : 1493478.7/19

Left Out: 216.574 $\pm$ 0.037 χ^2/NDF :886214.1/24

Right Out: 203.292 $\pm$ 0.050 χ^2/NDF : 2342466.8/23

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

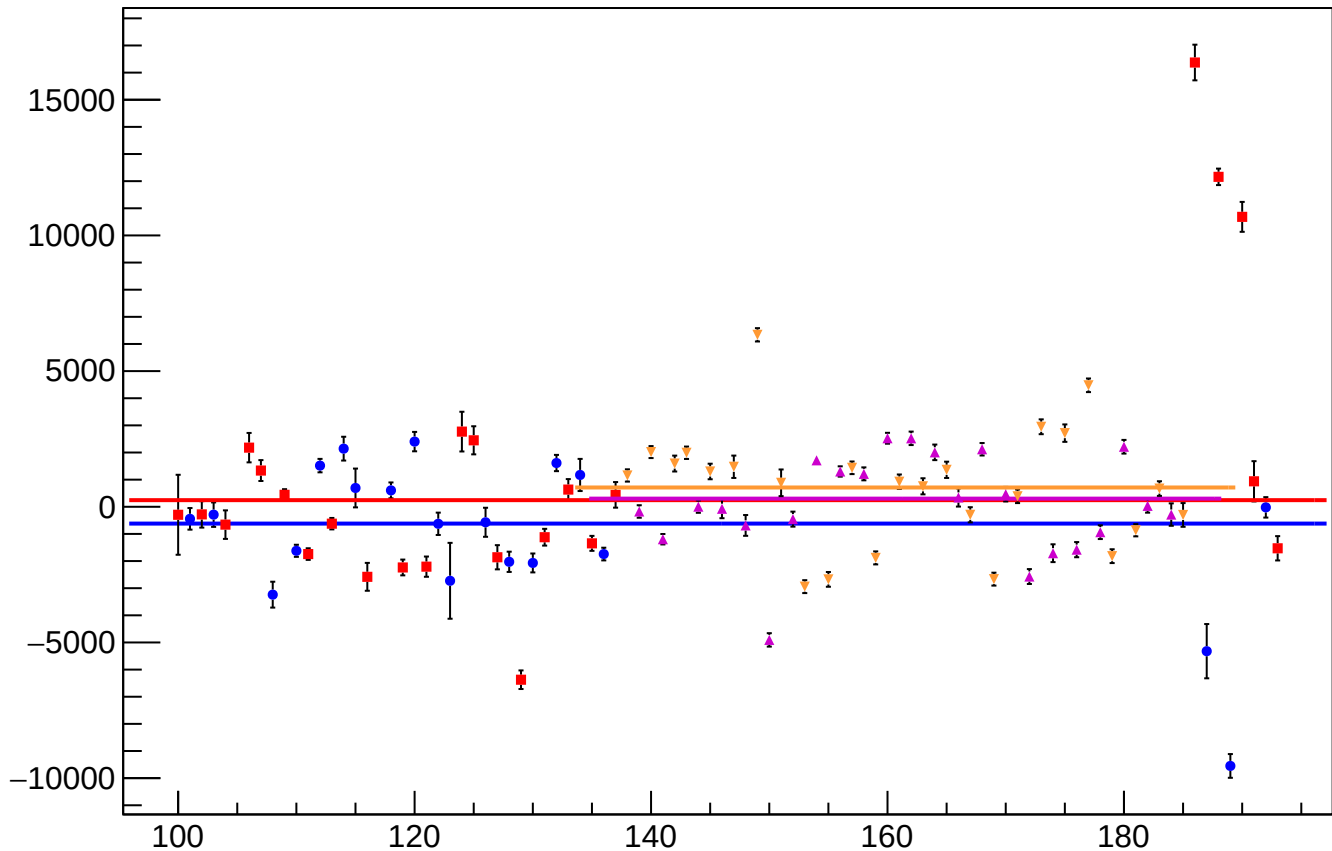
Right: 207.523 $\pm$ 0.037 χ^2/NDF : 3852016.5/43

In: 204.957 $\pm$ 0.030 χ^2/NDF :2608364.7/42

Out: 211.954 $\pm$ 0.029 χ^2/NDF :3274693.2/48

All: 208.501 $\pm$ 0.021 χ^2/NDF : 5910829.7/91

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -619.222 $\pm$ 81.745 χ^2 /NDF: 820.7/19

Left Out: 711.174 $\pm$ 53.245 χ^2 /NDF:1835.3/24

Right Out: 244.203 $\pm$ 73.333 χ^2 /NDF: 3271.6/23

Left In: 300.516 $\pm$ 51.984 χ^2 /NDF:1208.6/22

Left: 500.925 $\pm$ 37.196 χ^2 /NDF: 3074.4/47

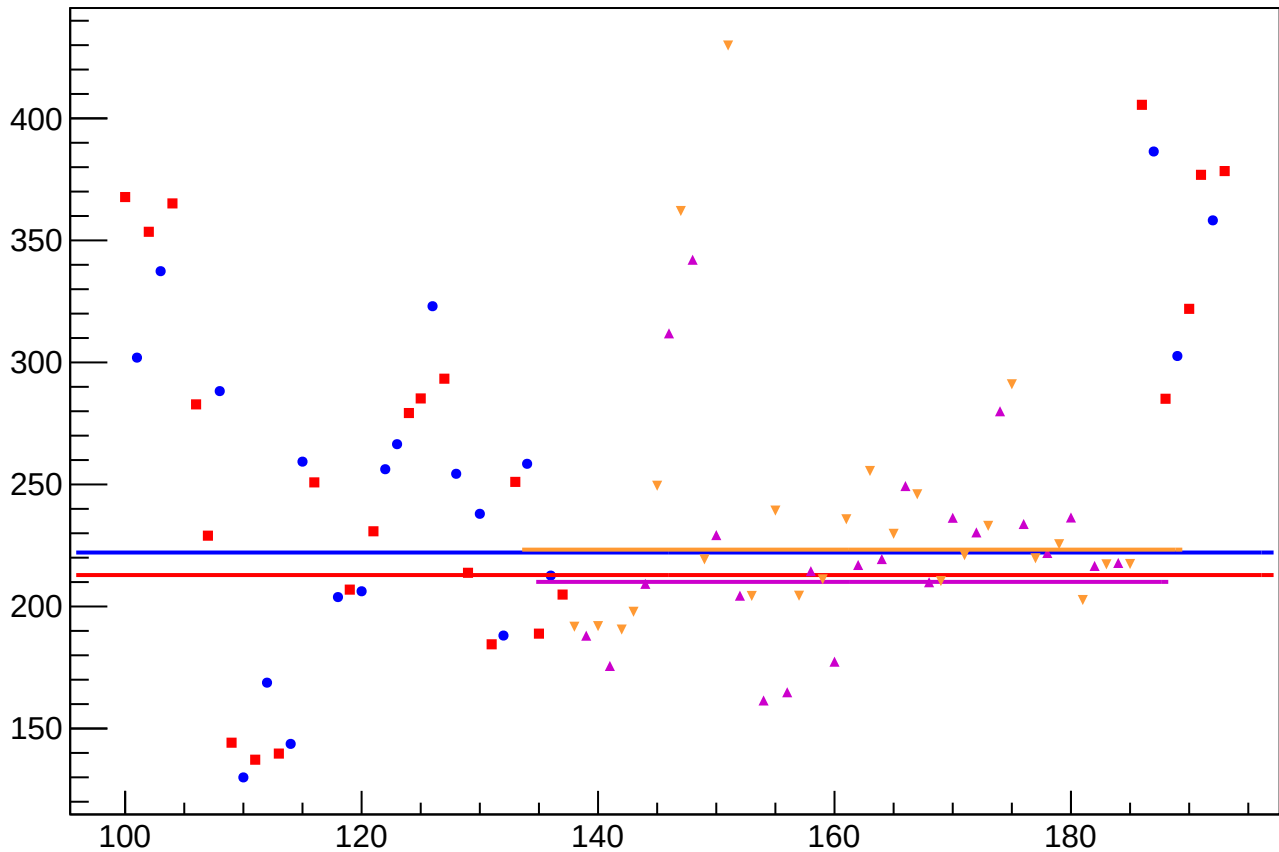
Right: -140.814 $\pm$ 54.587 χ^2 /NDF: 4154.1/43

In: 35.673 $\pm$ 43.865 χ^2 /NDF:2119.4/42

Out: 549.978 $\pm$ 43.086 χ^2 /NDF:5133.5/48

All: 297.436 $\pm$ 30.738 χ^2 /NDF: 7322.9/91

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 222.112 ± 0.058 $\chi^2/\text{NDF}: 1290819.2/19$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 212.879 ± 0.052 $\chi^2/\text{NDF}: 2025989.6/23$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

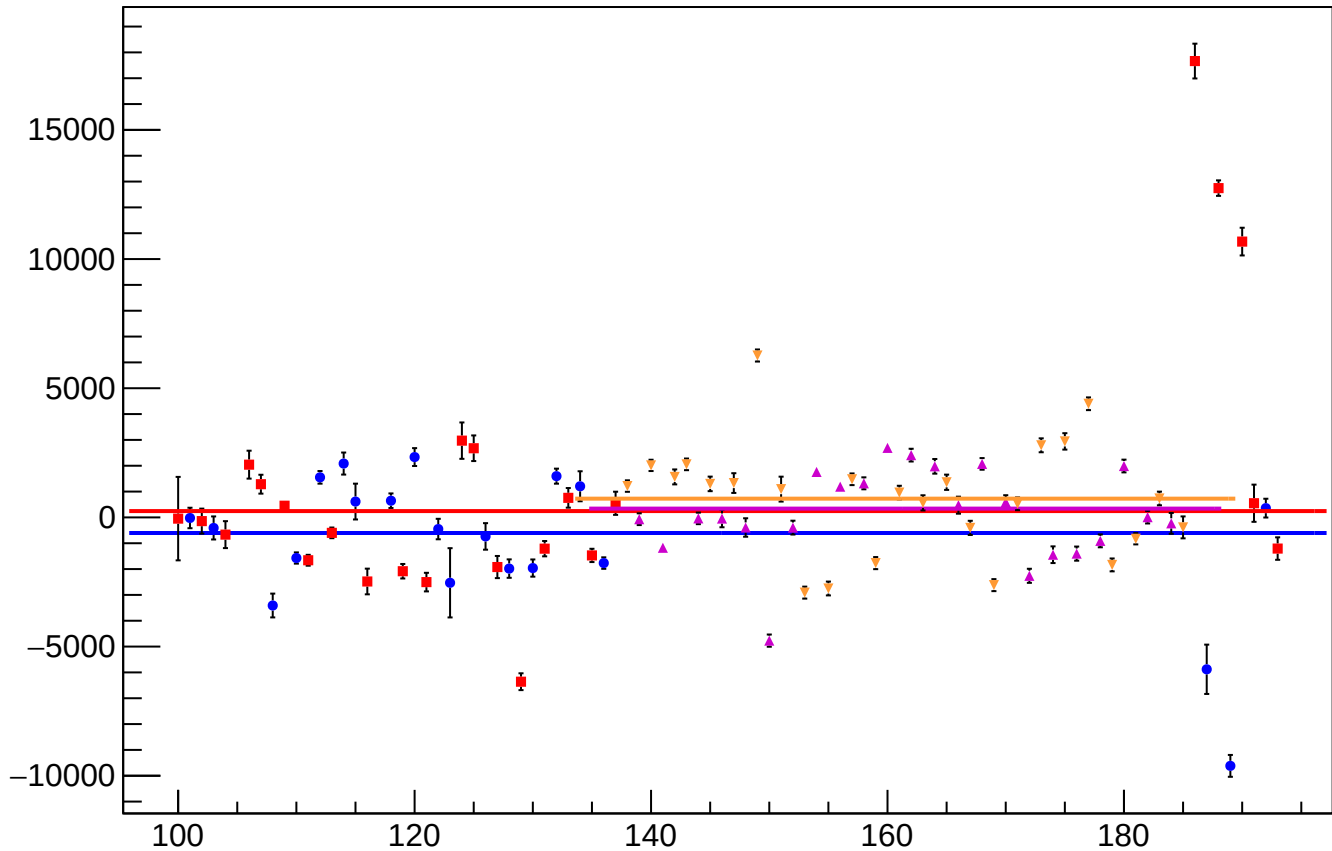
Right: 216.996 ± 0.039 $\chi^2/\text{NDF}: 3330946.0/43$

In: 213.545 ± 0.031 $\chi^2/\text{NDF}: 2336947.1/42$

Out: 219.700 ± 0.030 $\chi^2/\text{NDF}: 2975184.6/48$

All: 216.678 ± 0.022 $\chi^2/\text{NDF}: 5332177.8/91$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -603.410+/-79.199 χ^2/NDF : 891.6/19

Left Out: 725.866+/-52.158 χ^2/NDF : 1912.7/24

Right Out: 244.769+/-70.785 χ^2/NDF : 3622.0/23

Left In: 340.502+/-50.802 χ^2/NDF : 1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

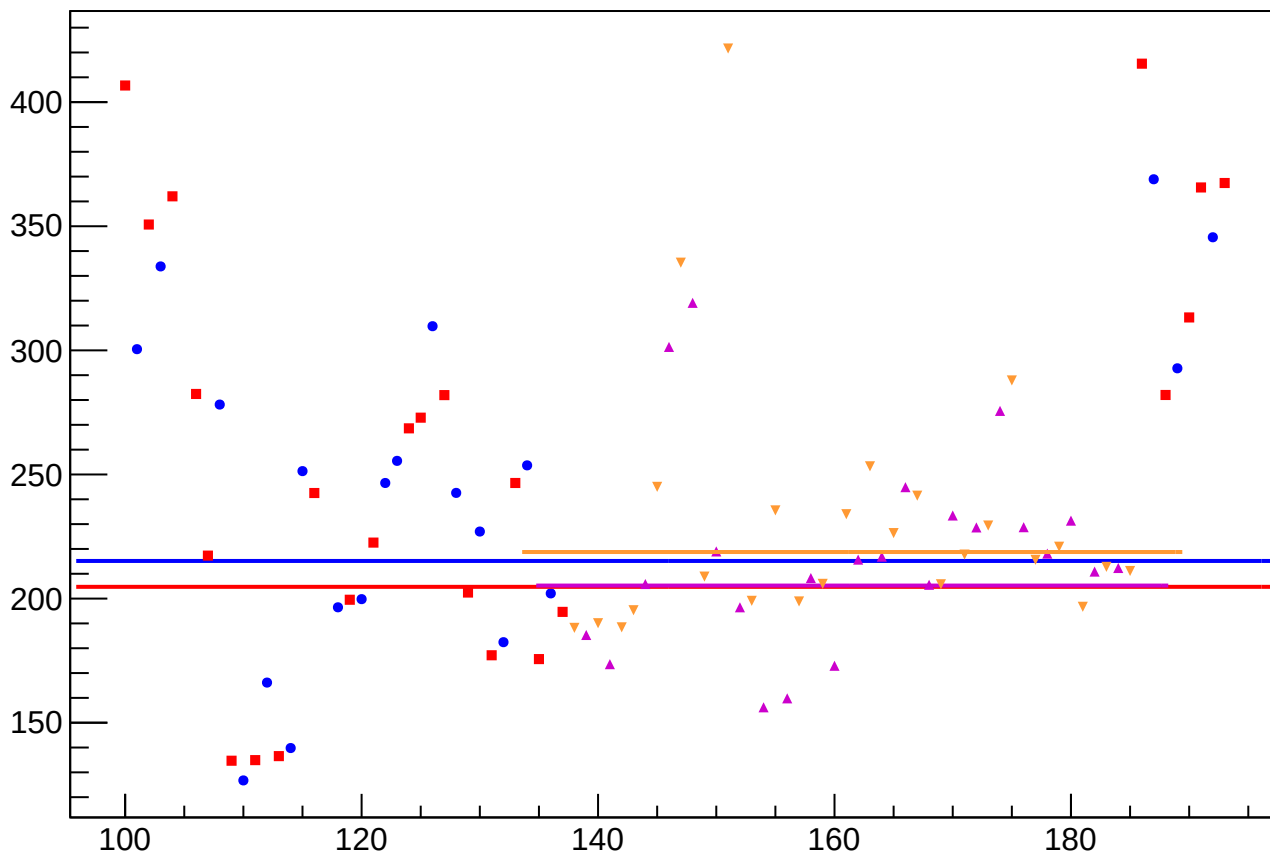
Right: -131.886+/-52.777 χ^2/NDF : 4577.4/43

In: 65.339+/-42.761 χ^2/NDF : 2194.1/42

Out: 556.571+/-41.990 χ^2/NDF : 5564.7/48

All: 315.424+/-29.960 χ^2/NDF : 7825.9/91

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 215.161 ± 0.056 χ^2/NDF : 1277544.6/19

Left Out: 218.768 ± 0.037 χ^2/NDF : 896914.5/24

Right Out: 204.737 ± 0.050 χ^2/NDF : 2131908.1/23

Left In: 205.249 ± 0.036 χ^2/NDF : 997168.8/22

Left: 211.831 ± 0.026 χ^2/NDF : 1963037.5/47

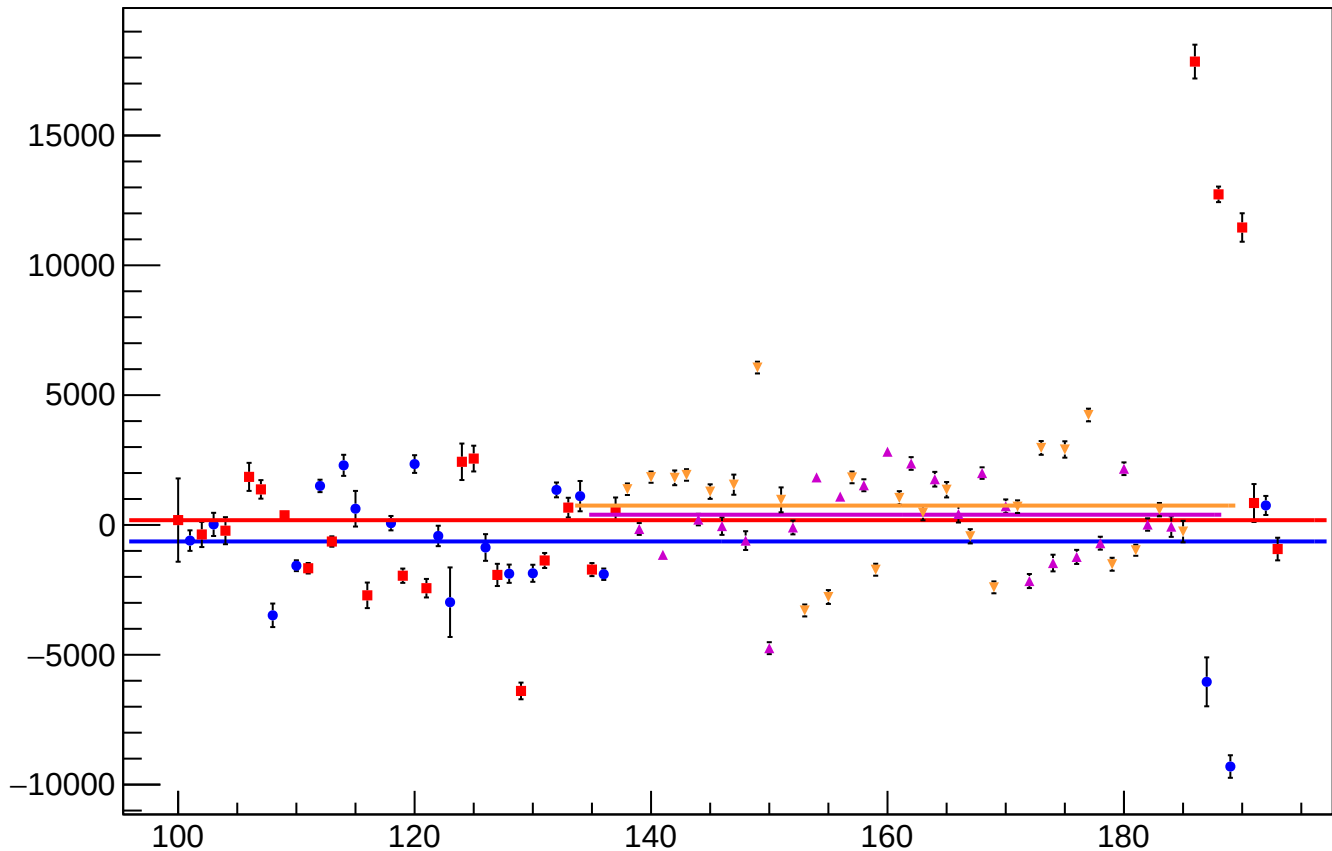
Right: 209.366 ± 0.037 χ^2/NDF : 3428711.3/43

In: 208.138 ± 0.030 χ^2/NDF : 2296906.8/42

Out: 213.831 ± 0.030 χ^2/NDF : 3079753.1/48

All: 211.036 ± 0.021 χ^2/NDF : 5394704.6/91

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -635.032 ± 78.005 $\chi^2/\text{NDF}: 845.1/19$

Left Out: 746.405 ± 51.592 $\chi^2/\text{NDF}: 1942.1/24$

Right Out: 183.352 ± 69.456 $\chi^2/\text{NDF}: 3755.2/23$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 565.969 ± 36.020 $\chi^2/\text{NDF}: 3202.4/47$

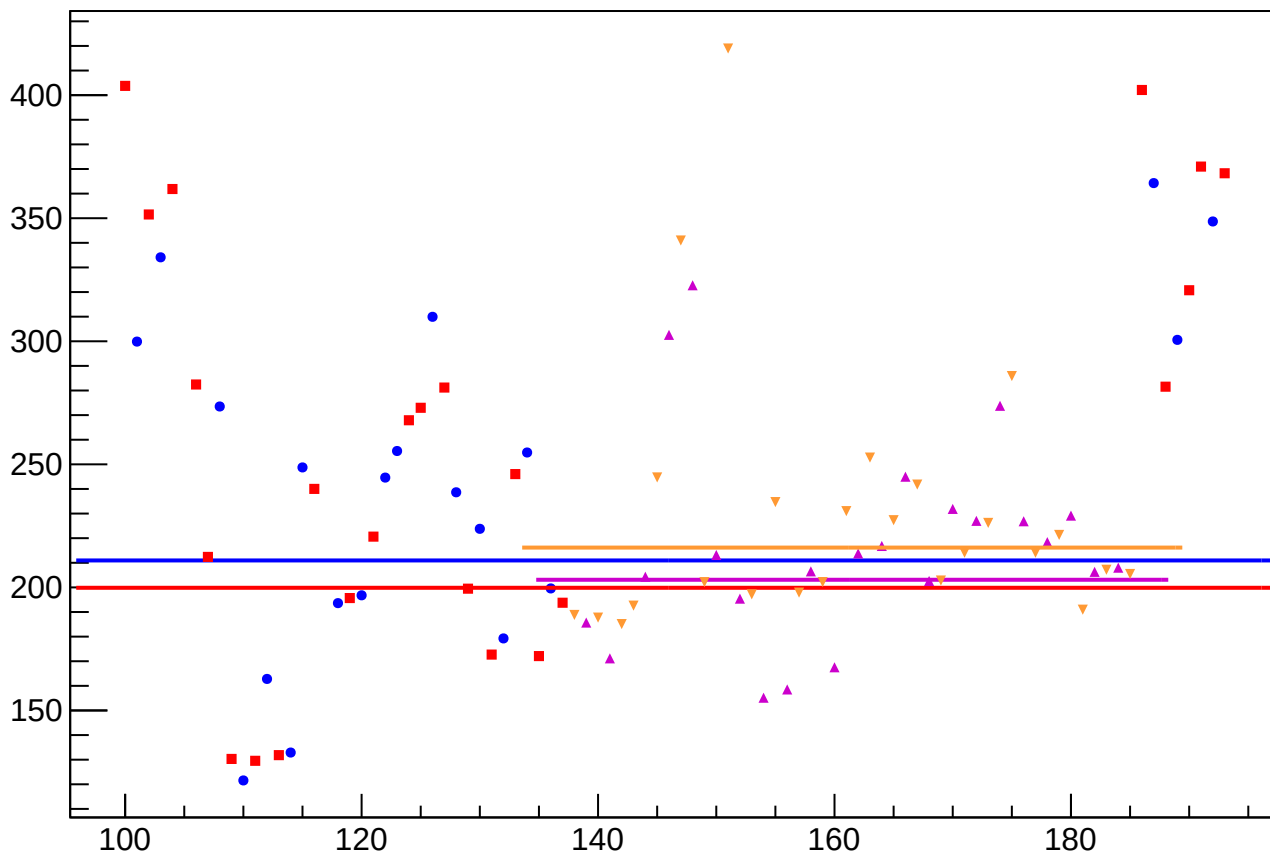
Right: -178.554 ± 51.873 $\chi^2/\text{NDF}: 4661.7/43$

In: 91.956 ± 42.280 $\chi^2/\text{NDF}: 2204.5/42$

Out: 546.202 ± 41.416 $\chi^2/\text{NDF}: 5739.6/48$

All: 323.767 ± 29.586 $\chi^2/\text{NDF}: 8003.1/91$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 210.952 $\pm$ 0.055 χ^2/NDF : 1397932.1/19

Left Out: 216.178 $\pm$ 0.036 χ^2/NDF :946050.8/24

Right Out: 199.844 $\pm$ 0.049 χ^2/NDF : 2290477.0/23

Left In: 203.101 $\pm$ 0.036 χ^2/NDF :1038013.0/22

Left: 209.475 $\pm$ 0.025 χ^2/NDF : 2049926.5/47

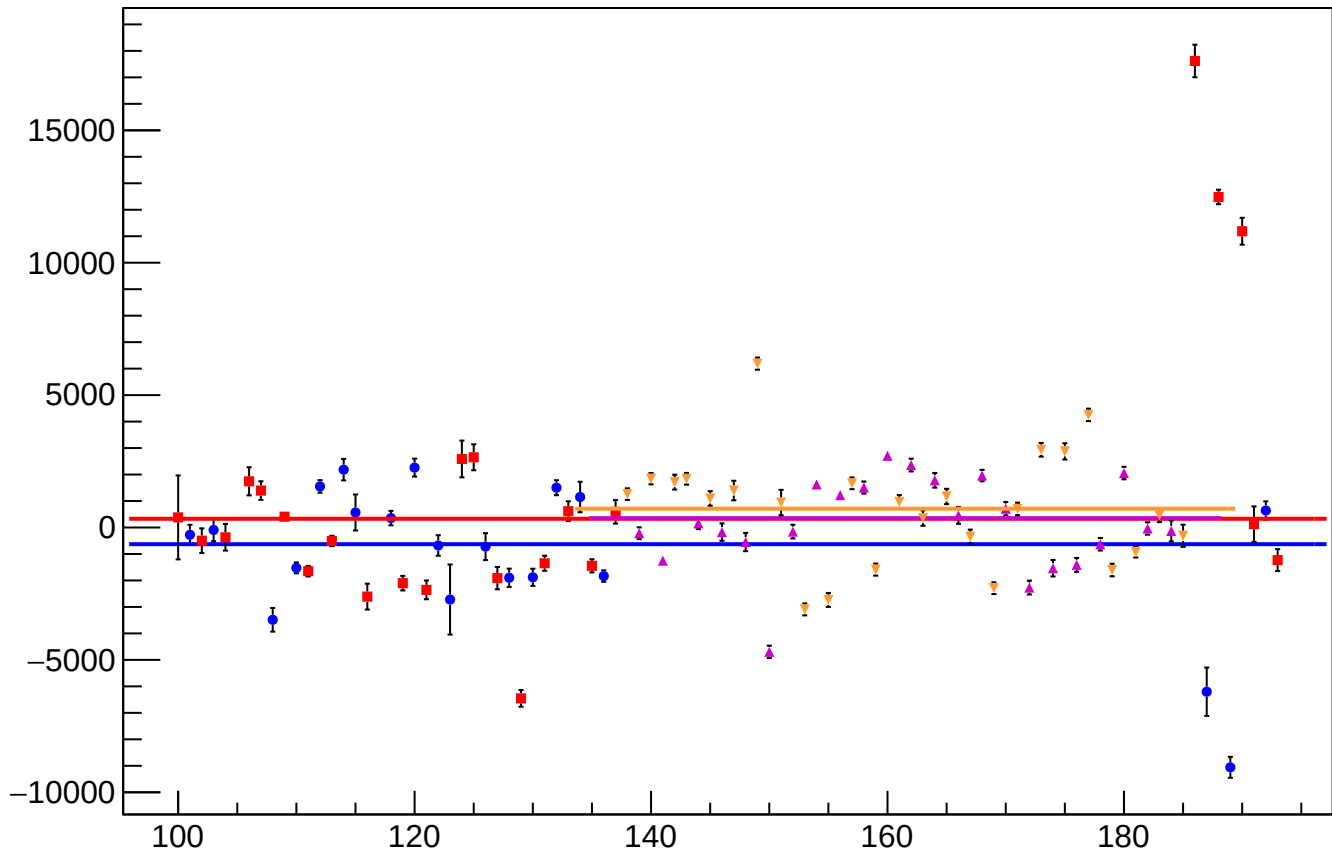
Right: 204.756 $\pm$ 0.037 χ^2/NDF : 3711028.6/43

In: 205.407 $\pm$ 0.030 χ^2/NDF :2450252.9/42

Out: 210.370 $\pm$ 0.029 χ^2/NDF :3307805.9/48

All: 207.940 $\pm$ 0.021 χ^2/NDF : 5772121.7/91

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.898 ± 76.520 χ^2/NDF : 914.7/19

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 330.233 ± 67.876 χ^2/NDF : 4153.2/23

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

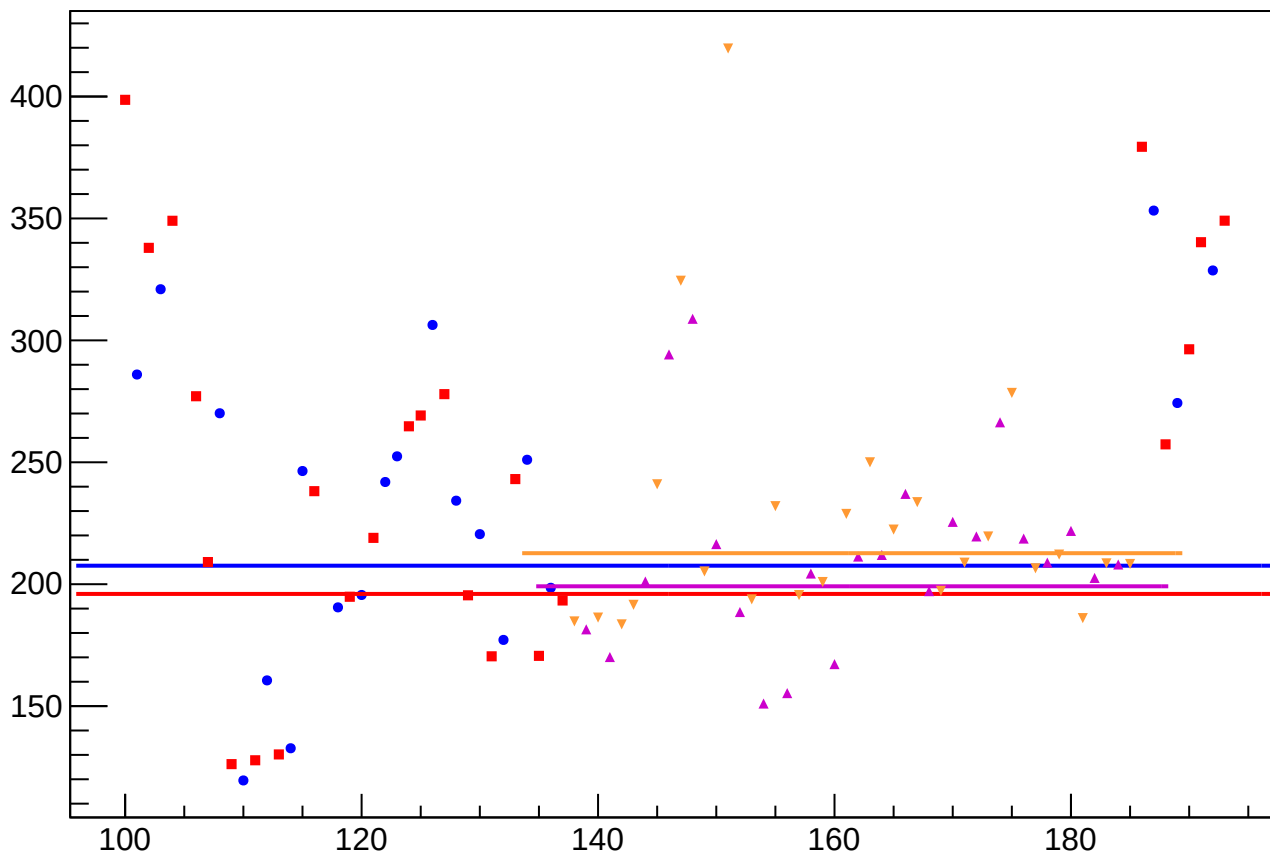
Right: -92.560 ± 50.778 χ^2/NDF : 5156.0/43

In: 64.150 ± 41.453 χ^2/NDF : 2264.2/42

Out: 573.974 ± 40.645 χ^2/NDF : 6105.6/48

All: 324.076 ± 29.022 χ^2/NDF : 8446.9/91

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 207.591 ± 0.054 $\chi^2/\text{NDF}: 1296145.2/19$

Left Out: 212.718 ± 0.036 $\chi^2/\text{NDF}: 916225.9/24$

Right Out: 196.012 ± 0.048 $\chi^2/\text{NDF}: 2155059.2/23$

Left In: 199.142 ± 0.035 $\chi^2/\text{NDF}: 985932.4/22$

Left: 205.736 ± 0.025 $\chi^2/\text{NDF}: 1975772.3/47$

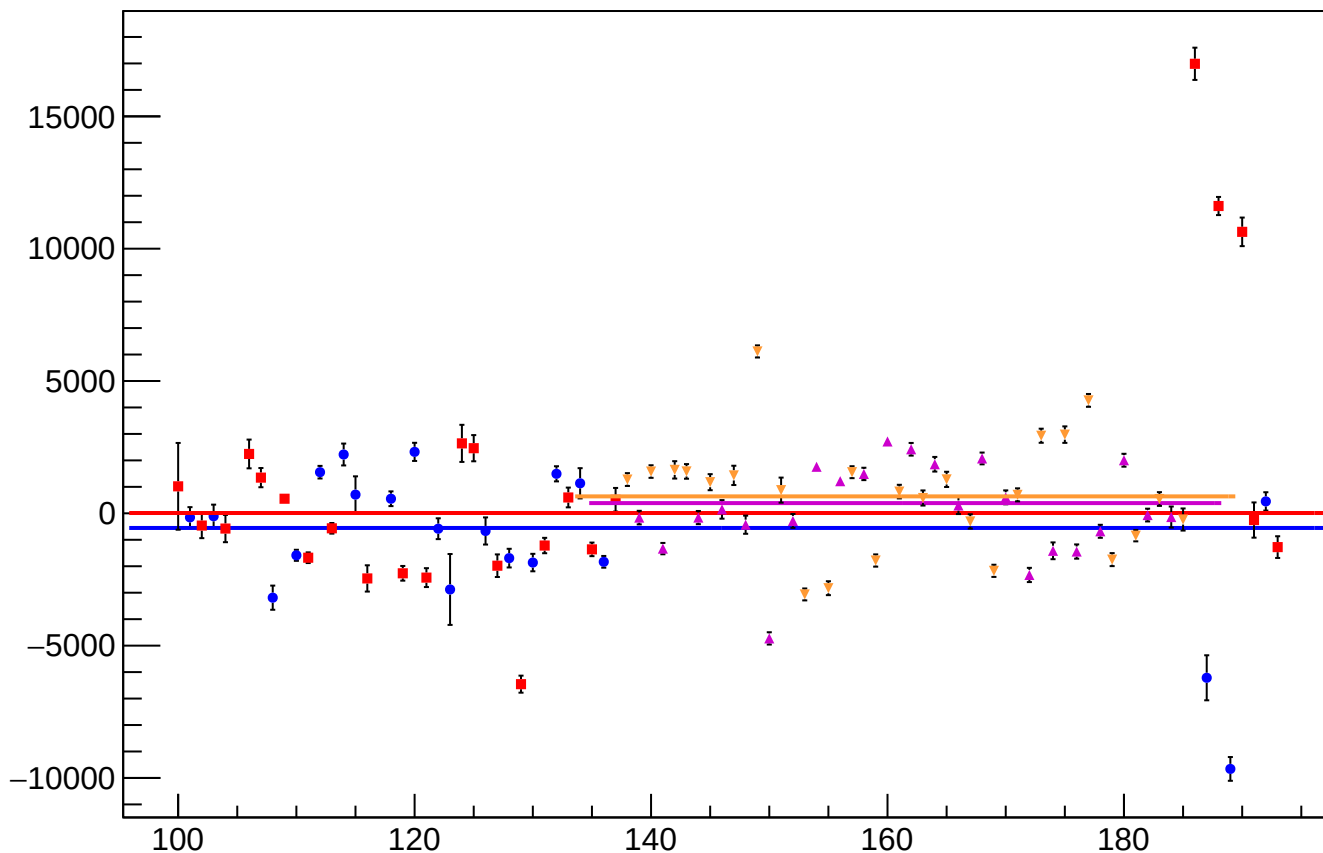
Right: 201.111 ± 0.036 $\chi^2/\text{NDF}: 3476831.4/43$

In: 201.621 ± 0.029 $\chi^2/\text{NDF}: 2299304.1/42$

Out: 206.728 ± 0.029 $\chi^2/\text{NDF}: 3148997.4/48$

All: 204.225 ± 0.021 $\chi^2/\text{NDF}: 5463774.7/91$

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -553.367 $\pm$ 77.874 χ^2 /NDF: 859.0/19

Left Out: 639.995 $\pm$ 52.708 χ^2 /NDF:1859.2/24

Right Out: 11.748 $\pm$ 69.909 χ^2 /NDF: 3090.6/23

Left In: 386.248 $\pm$ 50.994 χ^2 /NDF:1238.0/22

Left: 508.926 $\pm$ 36.649 χ^2 /NDF: 3109.2/47

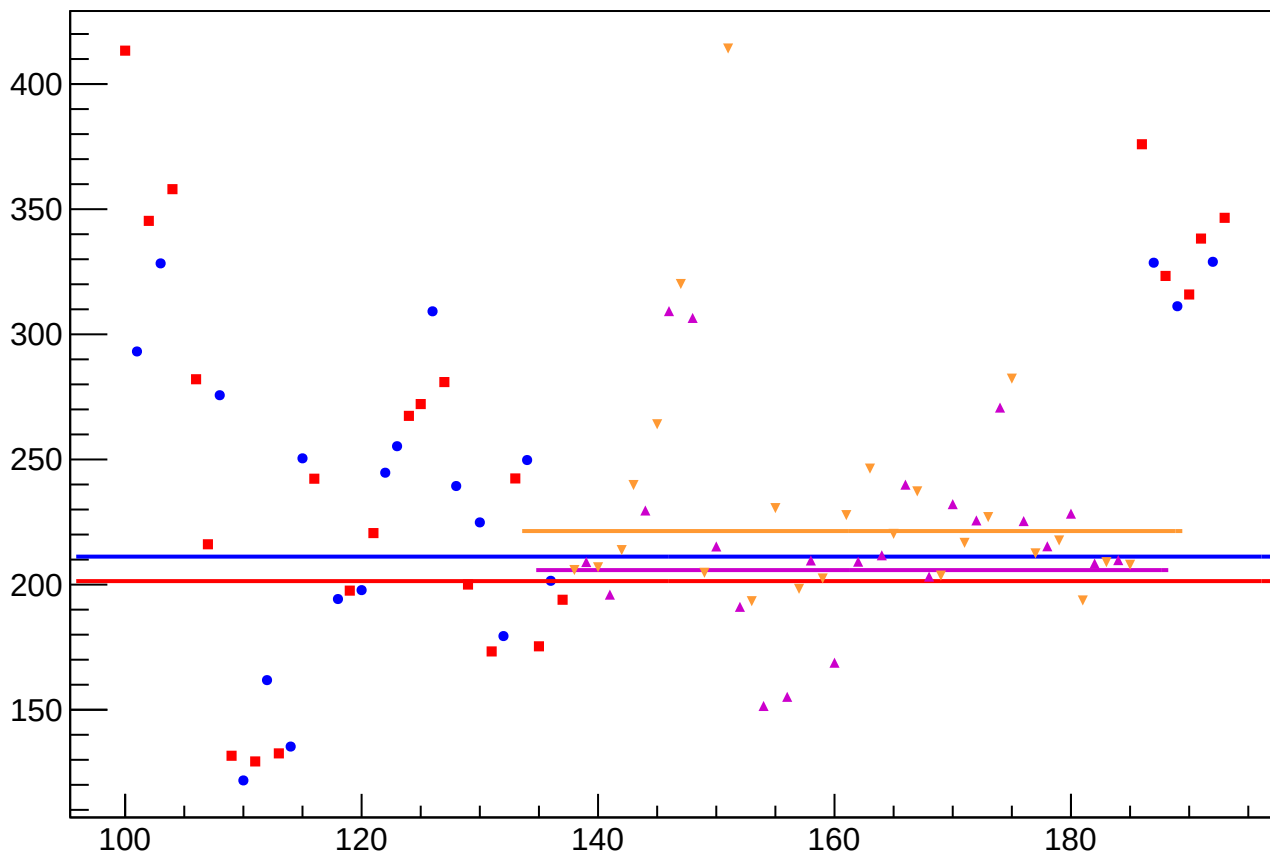
Right: -240.440 $\pm$ 52.022 χ^2 /NDF: 3978.7/43

In: 104.263 $\pm$ 42.661 χ^2 /NDF:2198.9/42

Out: 412.301 $\pm$ 42.087 χ^2 /NDF:5001.3/48

All: 260.369 $\pm$ 29.961 χ^2 /NDF: 7226.6/91

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 211.187 ± 0.055 χ^2/NDF : 1320897.6/19

Left Out: 221.398 ± 0.037 χ^2/NDF : 777833.8/24

Right Out: 201.403 ± 0.049 χ^2/NDF : 2260258.1/23

Left In: 205.803 ± 0.036 χ^2/NDF : 994903.5/22

Left: 213.343 ± 0.026 χ^2/NDF : 1863169.5/47

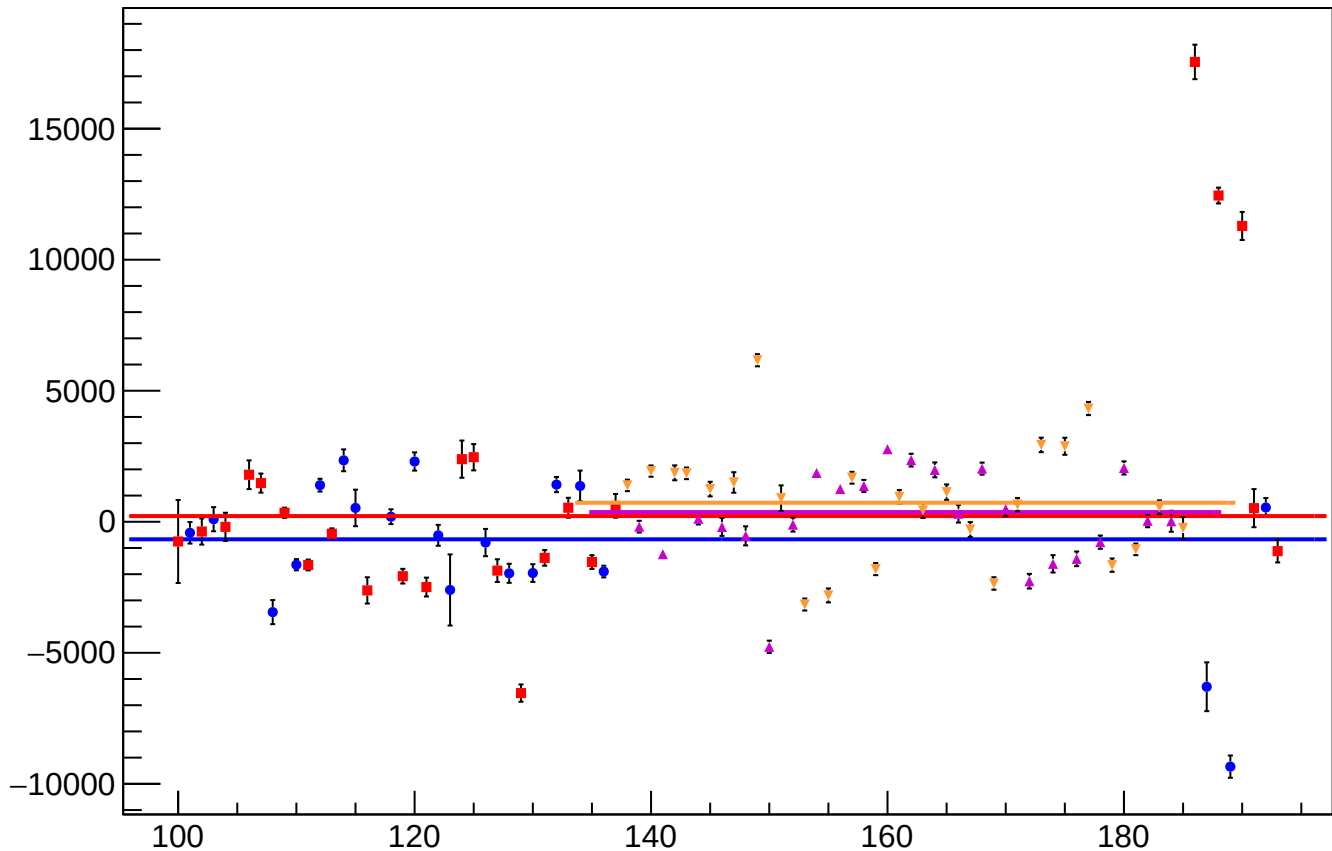
Right: 205.769 ± 0.037 χ^2/NDF : 3598639.9/43

In: 207.419 ± 0.030 χ^2/NDF : 2322491.8/42

Out: 214.151 ± 0.030 χ^2/NDF : 3142409.2/48

All: 210.831 ± 0.021 χ^2/NDF : 5490140.4/91

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -668.829 +/- 79.459 χ^2/NDF : 855.7/19

Left Out: 725.250 +/- 52.307 χ^2/NDF : 1883.1/24

Right Out: 217.426 +/- 70.985 χ^2/NDF : 3585.8/23

Left In: 370.408 +/- 50.884 χ^2/NDF : 1223.2/22

Left: 542.938 +/- 36.473 χ^2/NDF : 3129.9/47

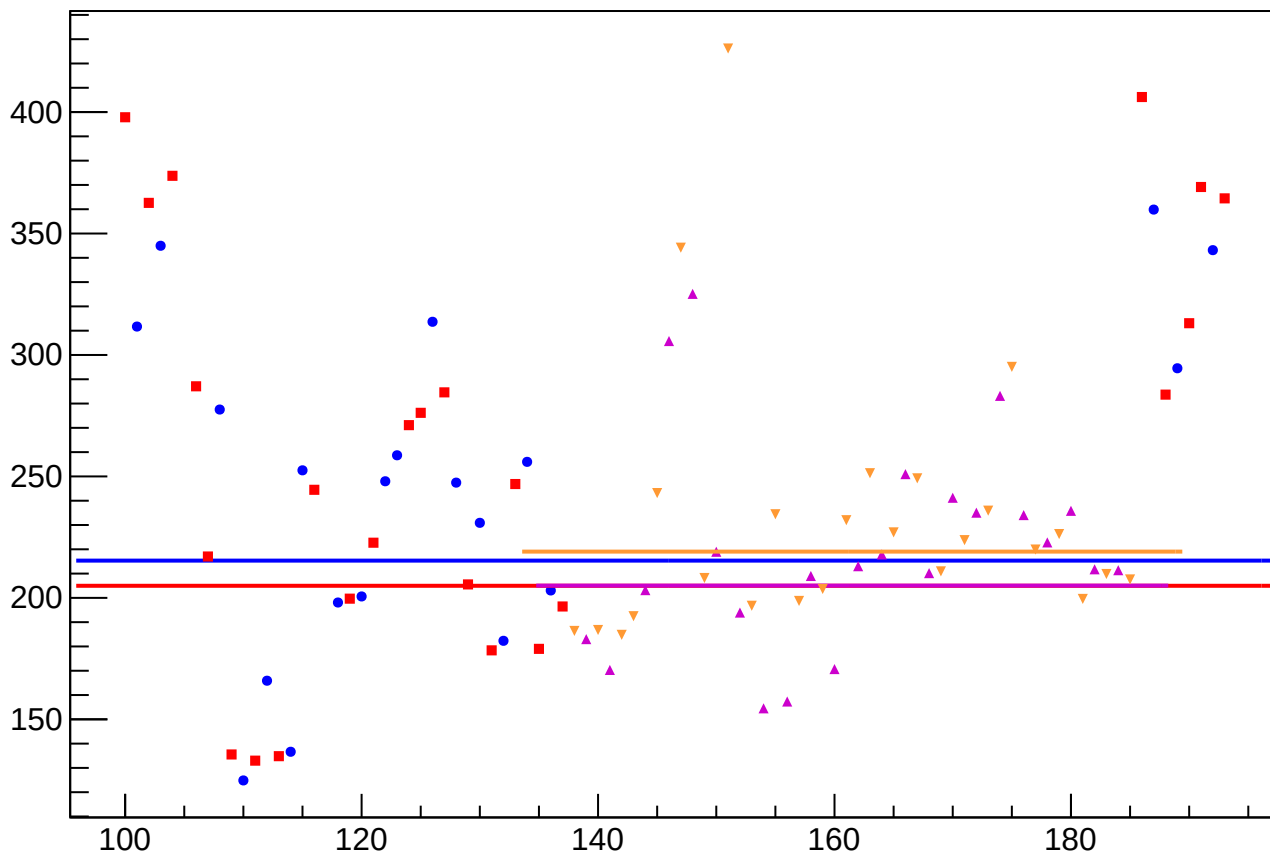
Right: -175.938 +/- 52.937 χ^2/NDF : 4510.8/43

In: 68.169 +/- 42.851 χ^2/NDF : 2200.2/42

Out: 546.542 +/- 42.109 χ^2/NDF : 5502.1/48

All: 311.531 +/- 30.035 χ^2/NDF : 7765.7/91

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 215.341 ± 0.056 $\chi^2/\text{NDF}: 1347809.0/19$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 204.977 ± 0.050 $\chi^2/\text{NDF}: 2184689.7/23$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

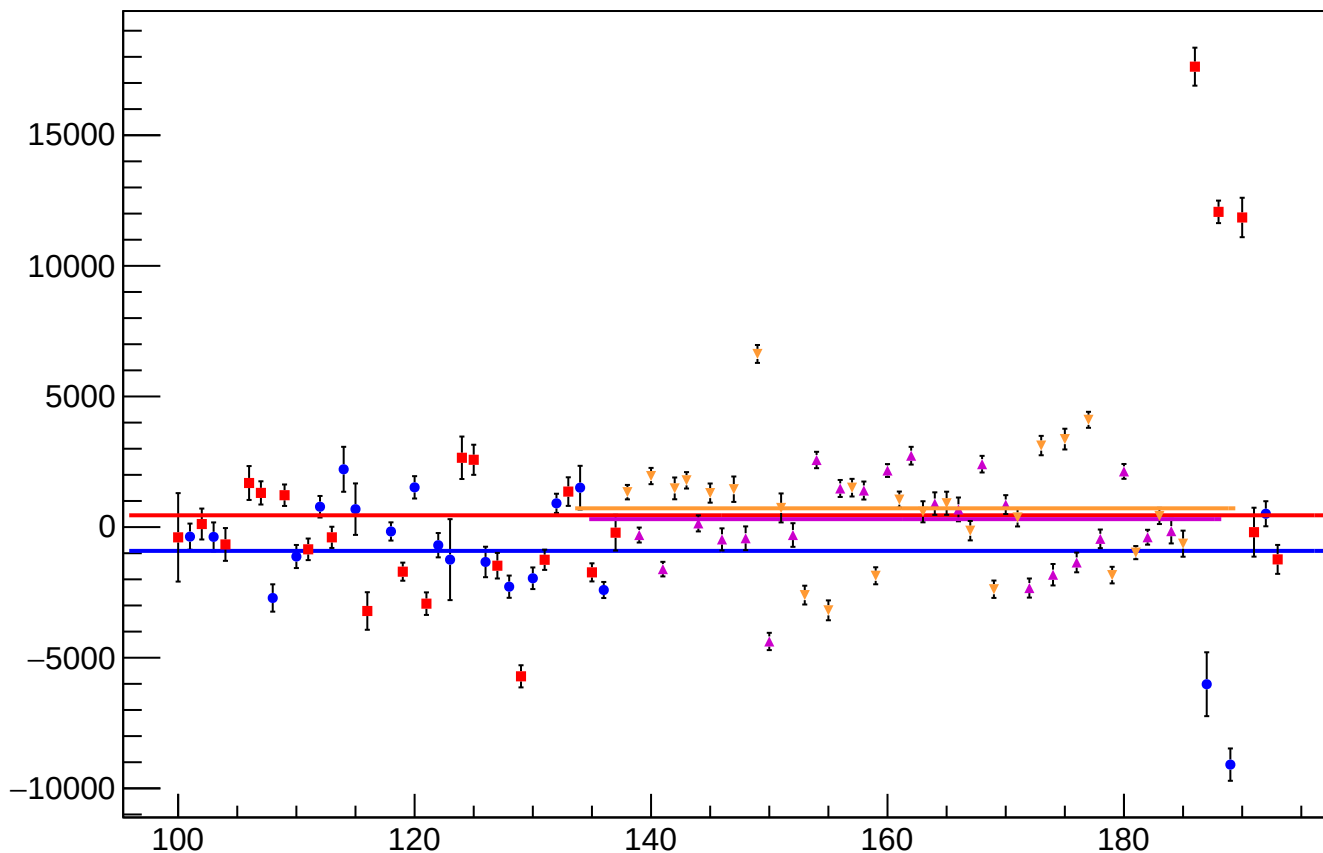
Right: 209.577 ± 0.037 $\chi^2/\text{NDF}: 3551419.2/43$

In: 208.040 ± 0.030 $\chi^2/\text{NDF}: 2515812.4/42$

Out: 214.097 ± 0.030 $\chi^2/\text{NDF}: 3211186.2/48$

All: 211.121 ± 0.021 $\chi^2/\text{NDF}: 5747323.8/91$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -910.563+/-108.906 χ^2/NDF : 358.8/19

Left Out: 718.705+/-69.601 χ^2/NDF :1018.5/24

Right Out: 451.652+/-102.691 χ^2/NDF : 1987.5/23

Left In: 304.161+/-70.958 χ^2/NDF :643.5/22

Left: 515.435+/-49.688 χ^2/NDF : 1679.4/47

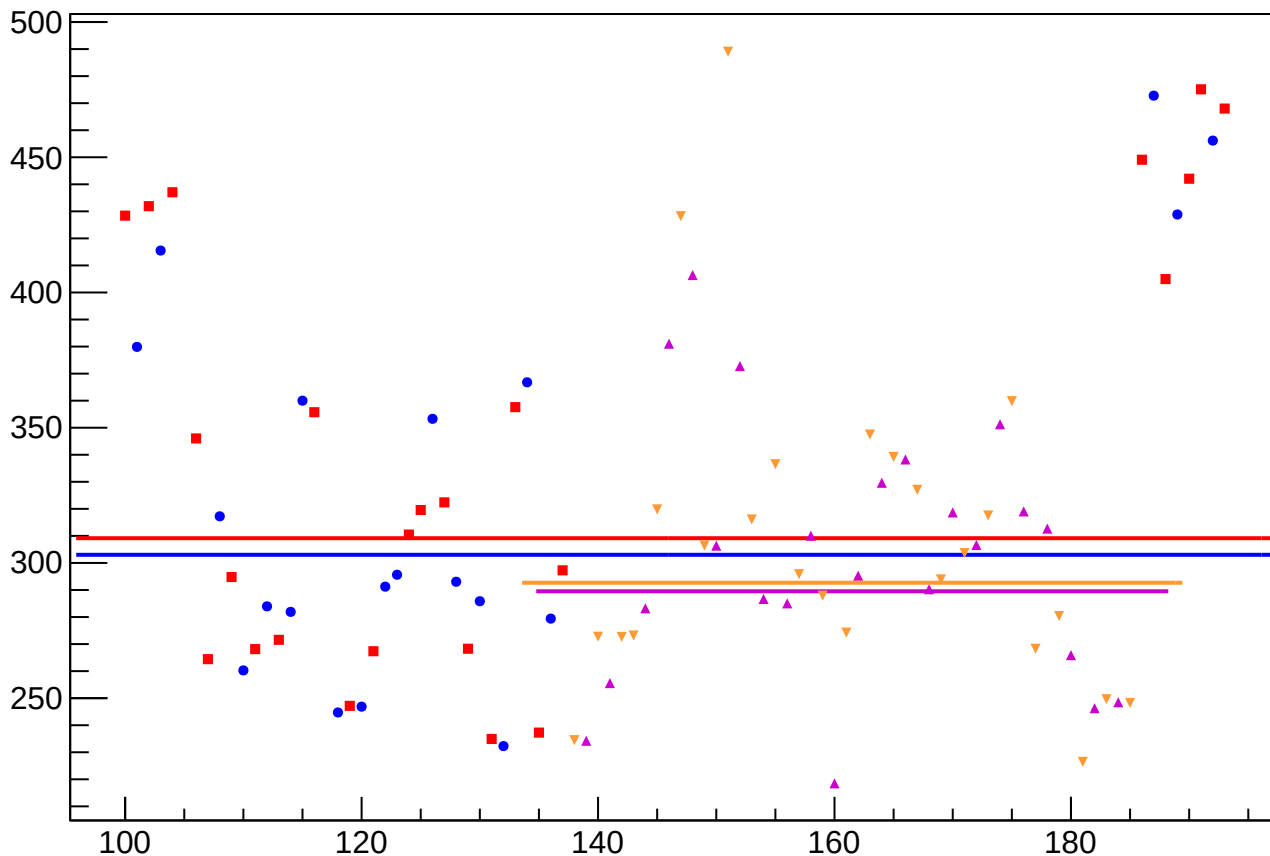
Right: -189.483+/-74.714 χ^2/NDF : 2429.1/43

In: -57.837+/-59.452 χ^2/NDF :1089.6/42

Out: 634.645+/-57.614 χ^2/NDF :3010.6/48

All: 299.270+/-41.374 χ^2/NDF : 4170.2/91

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 303.013 ± 0.077 χ^2/NDF : 695691.5/19

Left Out: 292.686 ± 0.049 χ^2/NDF : 925193.6/24

Right Out: 309.145 ± 0.073 χ^2/NDF : 995262.6/23

Left In: 289.522 ± 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 ± 0.035 χ^2/NDF : 1705121.5/47

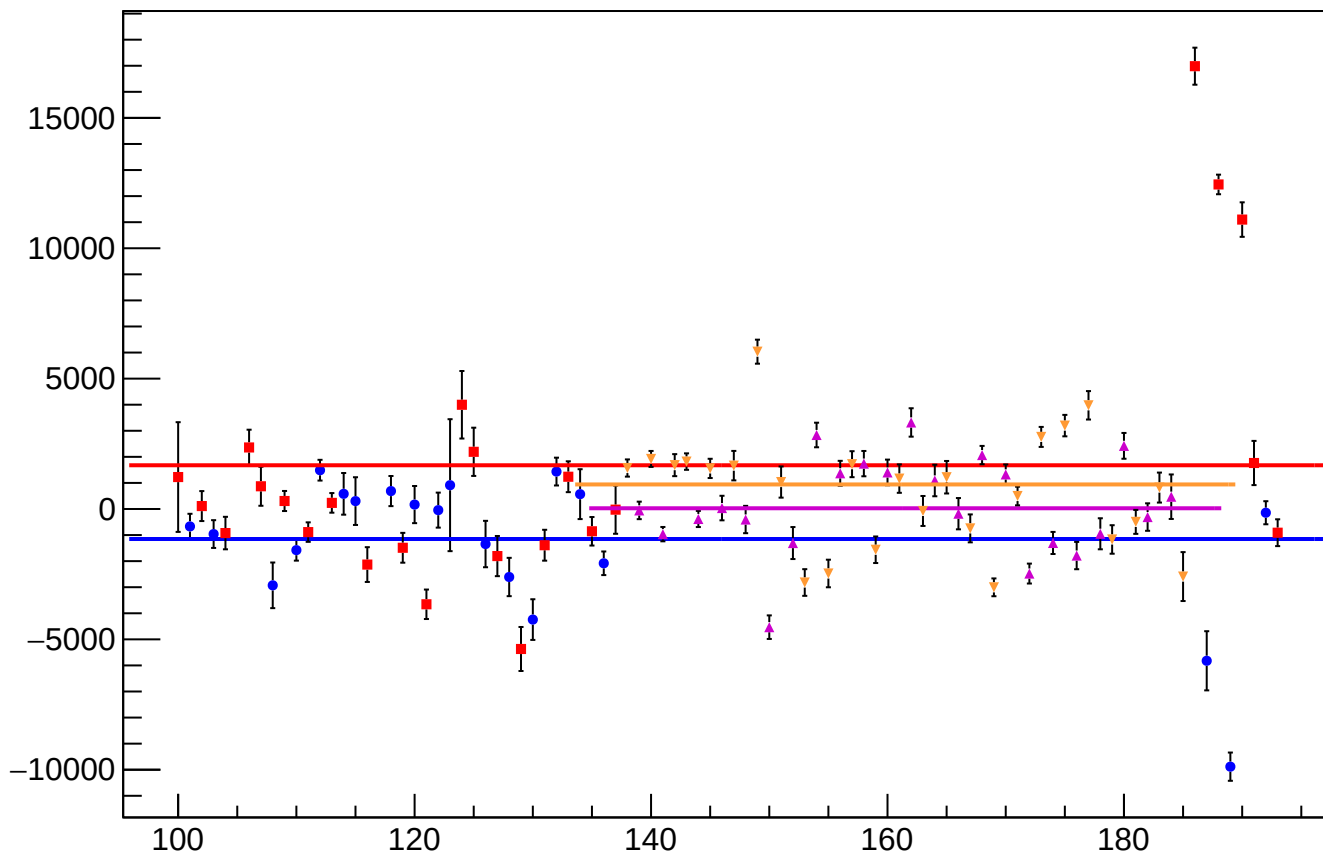
Right: 306.259 ± 0.053 χ^2/NDF : 1694311.4/43

In: 293.542 ± 0.042 χ^2/NDF : 1495137.2/42

Out: 297.867 ± 0.041 χ^2/NDF : 1955663.4/48

All: 295.772 ± 0.029 χ^2/NDF : 3456258.4/91

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -1151.120 $\pm$ 134.580 χ^2/NDF : 407.0/19

Left Out: 941.598 $\pm$ 89.119 χ^2/NDF : 544.6/24

Right Out: 1677.184 $\pm$ 118.866 χ^2/NDF : 1913.5/23

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

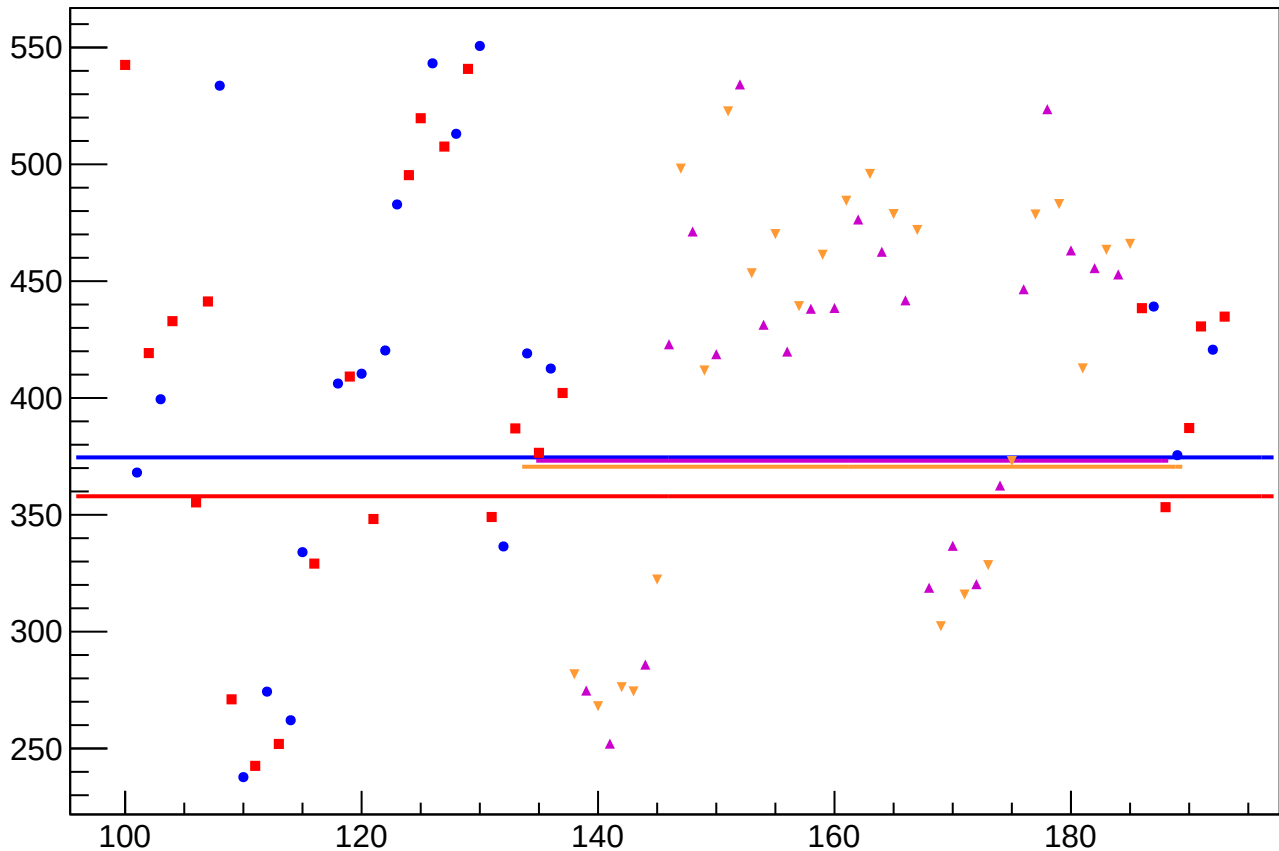
Right: 437.717 $\pm$ 89.091 χ^2/NDF : 2568.7/43

In: -349.535 $\pm$ 76.136 χ^2/NDF : 821.7/42

Out: 1206.293 $\pm$ 71.304 χ^2/NDF : 2482.6/48

All: 479.308 $\pm$ 52.044 χ^2/NDF : 3526.8/91

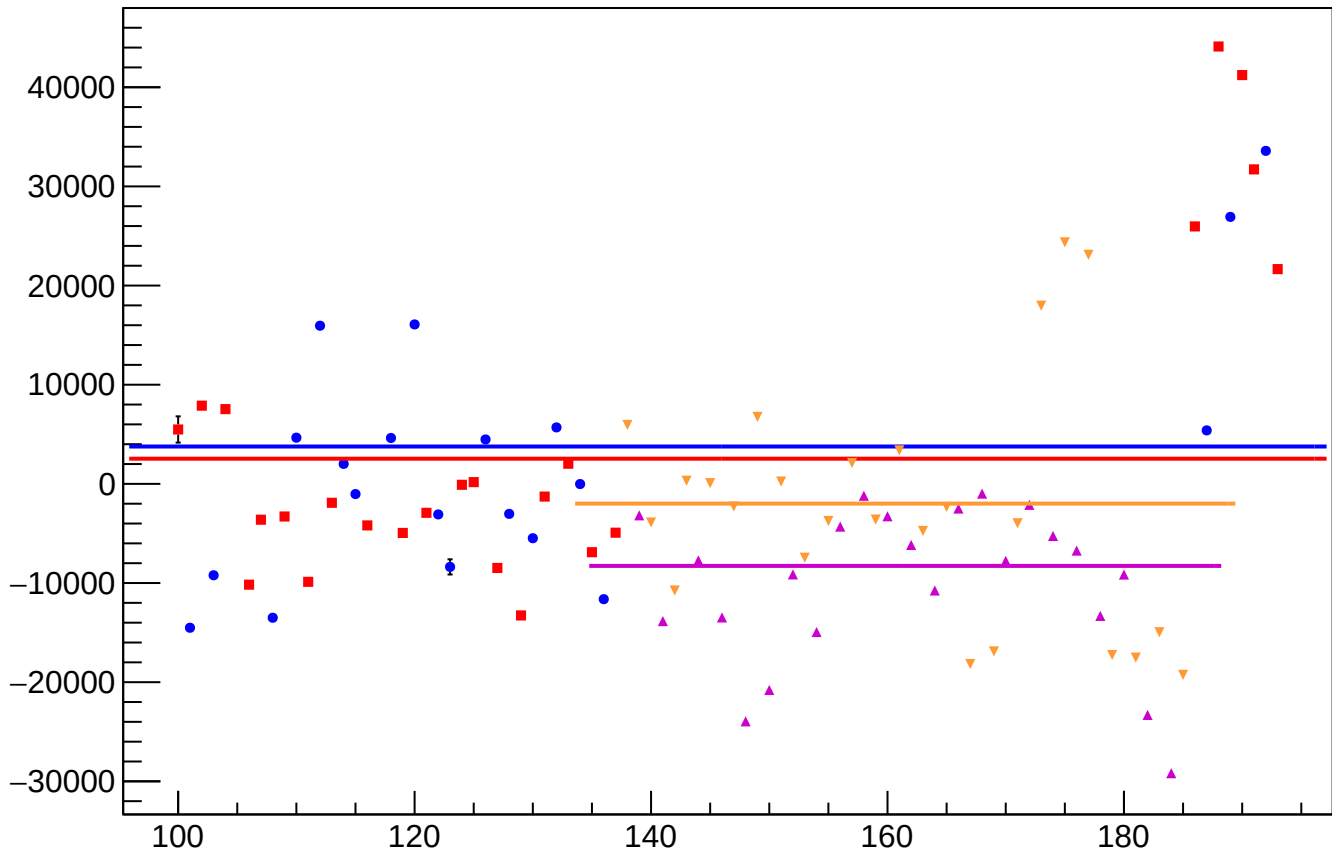
asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 374.579 $\pm$ 0.095 χ^2/NDF : 797246.6/19
 Left Out: 370.580 $\pm$ 0.063 χ^2/NDF :1878118.9/24
 Right Out: 357.941 $\pm$ 0.084 χ^2/NDF : 918208.9/23
 Left In: 373.161 $\pm$ 0.065 χ^2/NDF :1636244.2/22

Left: 371.824 $\pm$ 0.045 χ^2/NDF : 3515172.3/47
 Right: 365.232 $\pm$ 0.063 χ^2/NDF : 1732626.7/43
 In: 373.615 $\pm$ 0.054 χ^2/NDF :2433641.9/42
 Out: 366.032 $\pm$ 0.050 χ^2/NDF :2810801.4/48
 All: 369.575 $\pm$ 0.037 χ^2/NDF : 5255012.0/91

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 3767.726+/-51.329 χ^2/NDF : 67970.3/19

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 2539.286+/-47.360 χ^2/NDF : 113477.6/23

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

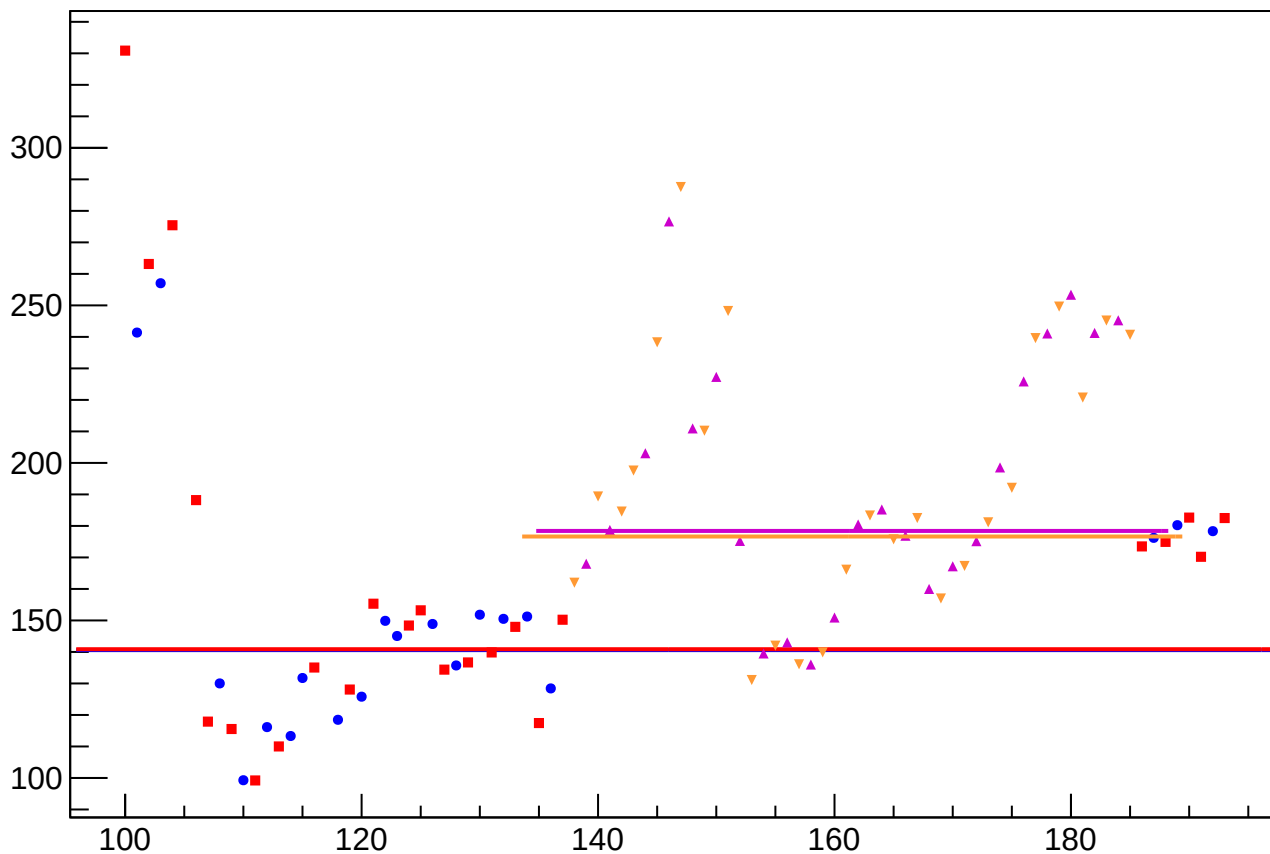
Right: 3104.182+/-34.807 χ^2/NDF : 181757.3/43

In: -3132.875+/-33.537 χ^2/NDF : 122377.7/42

Out: 25.543+/-31.601 χ^2/NDF : 182322.2/48

All: -1459.855+/-22.999 χ^2/NDF : 309397.9/9

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 140.583 $\pm$ 0.036 χ^2 /NDF: 816529.9/19

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 140.869 $\pm$ 0.033 χ^2 /NDF: 1096781.0/23

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

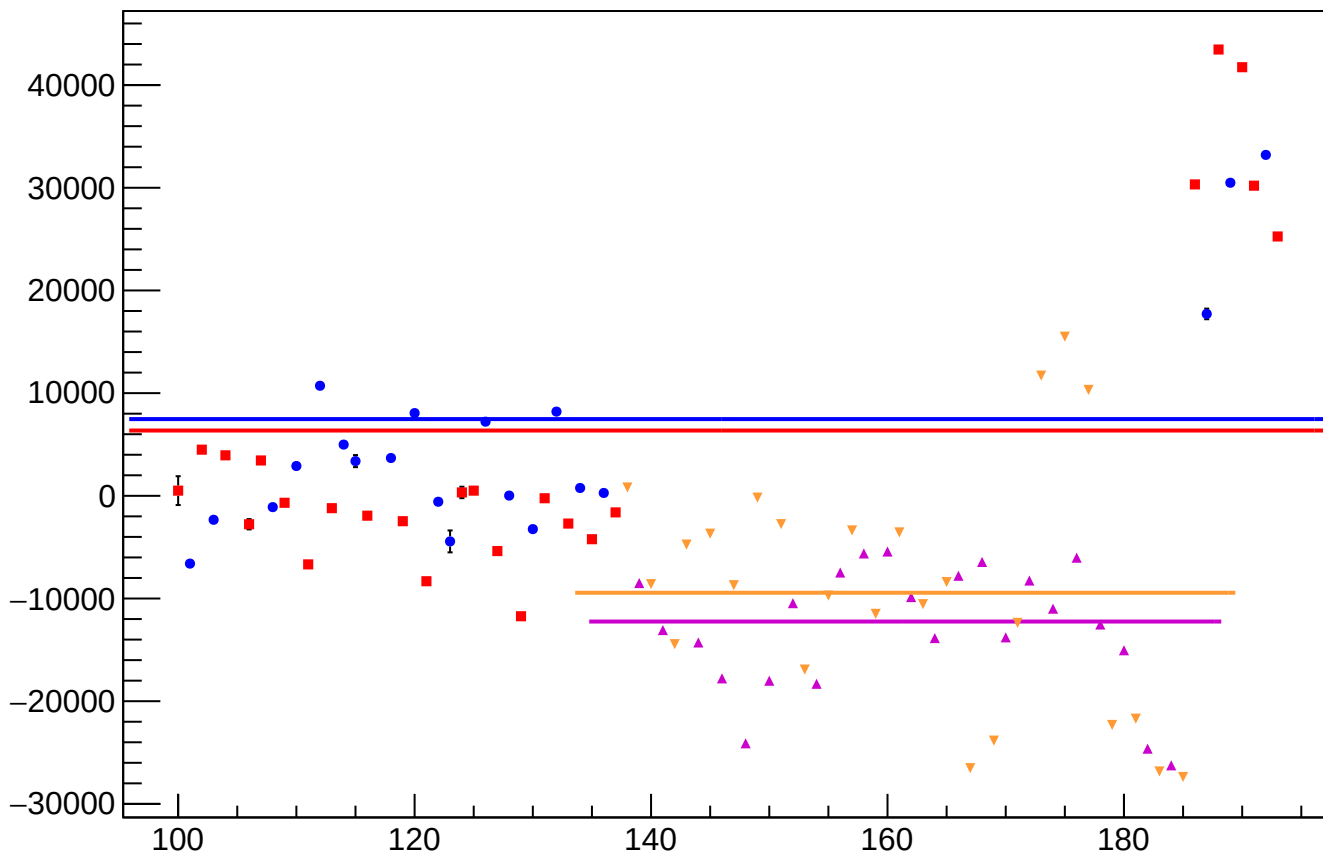
Right: 140.738 $\pm$ 0.025 χ^2 /NDF: 1913344.5/43

In: 162.263 $\pm$ 0.024 χ^2 /NDF:2732874.3/42

Out: 160.715 $\pm$ 0.022 χ^2 /NDF:3280820.1/48

All: 161.443 $\pm$ 0.016 χ^2 /NDF: 6015953.4/91

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 7473.094+/-64.743 χ^2/NDF : 30580.6/19

Left Out: -9437.408+/-45.534 χ^2/NDF : 62220.4/24

Right Out: 6359.524+/-57.705 χ^2/NDF : 89401.6/23

Left In: -12242.226+/-43.944 χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621 χ^2/NDF : 80800.7/47

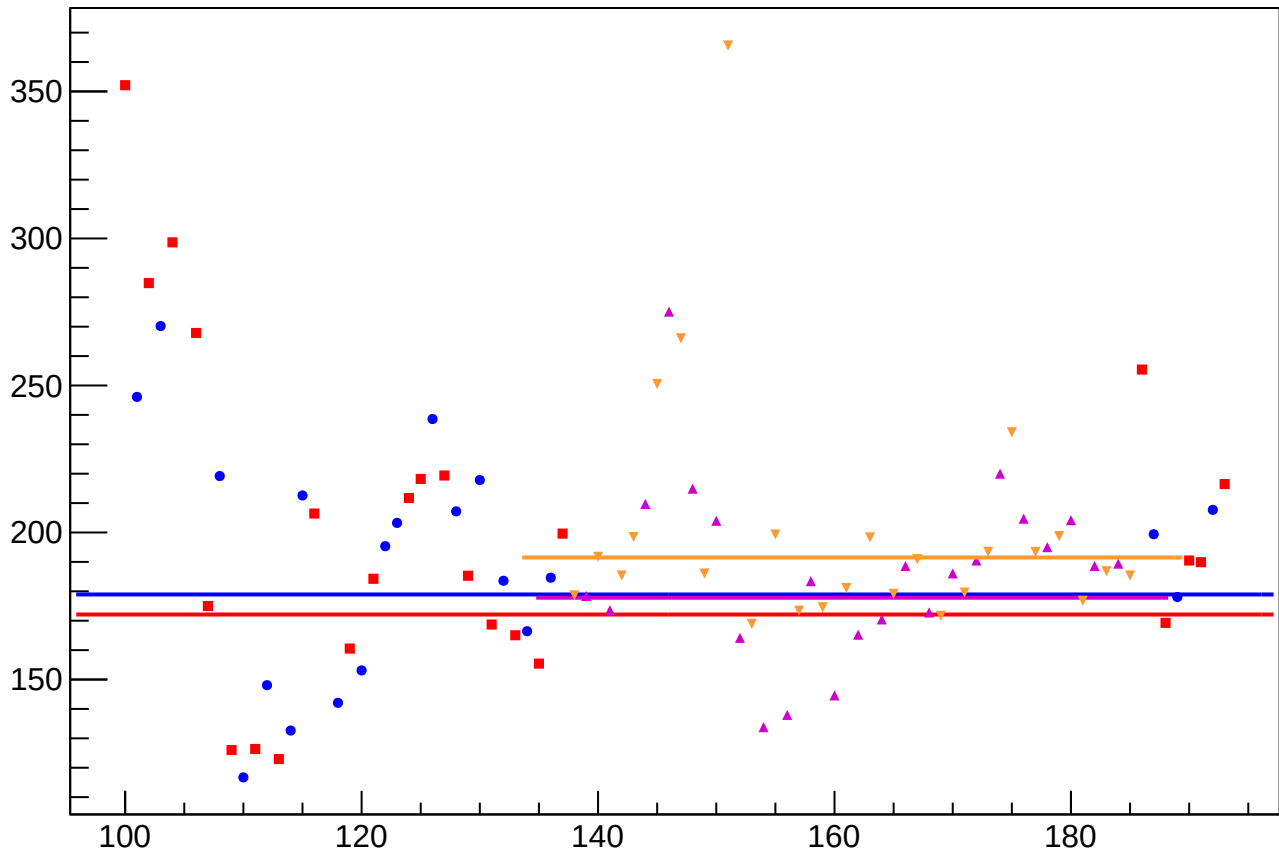
Right: 6852.514+/-43.078 χ^2/NDF : 120147.0/43

In: -6023.997+/-36.360 χ^2/NDF : 110680.2/42

Out: -3375.643+/-35.746 χ^2/NDF : 197806.2/48

All: -4677.266+/-25.490 χ^2/NDF : 311184.2/9

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.926+/-0.046 χ^2/NDF : 730087.3/19

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 172.107+/-0.041 χ^2/NDF : 1093988.1/23

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

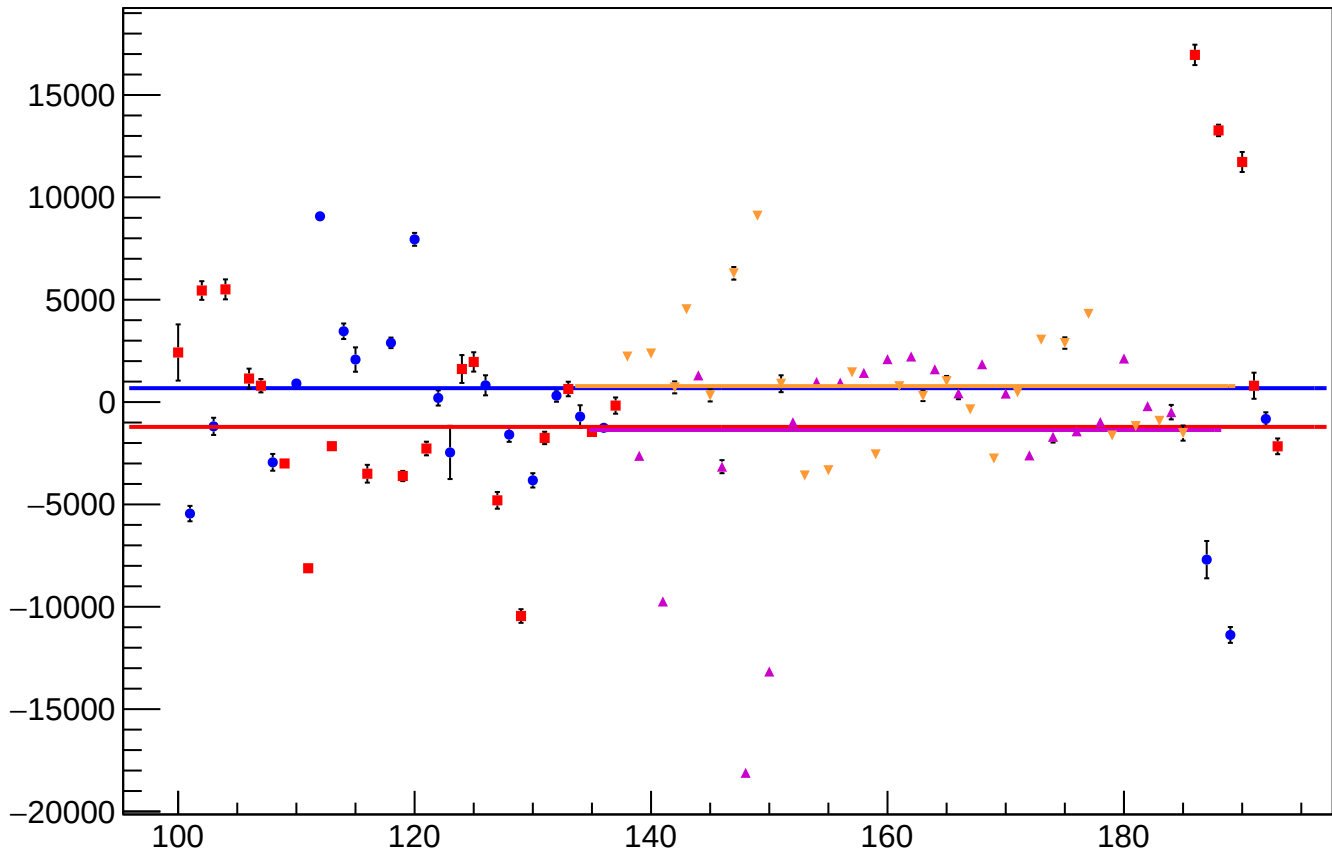
Right: 175.126+/-0.030 χ^2/NDF : 1836436.7/43

In: 178.170+/-0.026 χ^2/NDF : 1592979.8/42

Out: 184.063+/-0.025 χ^2/NDF : 1960540.4/48

All: 181.166+/-0.018 χ^2/NDF : 3580235.2/91

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 678.890 ± 73.629 $\chi^2/\text{NDF}: 3787.8/19$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -1213.011 ± 65.358 $\chi^2/\text{NDF}: 7669.6/23$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

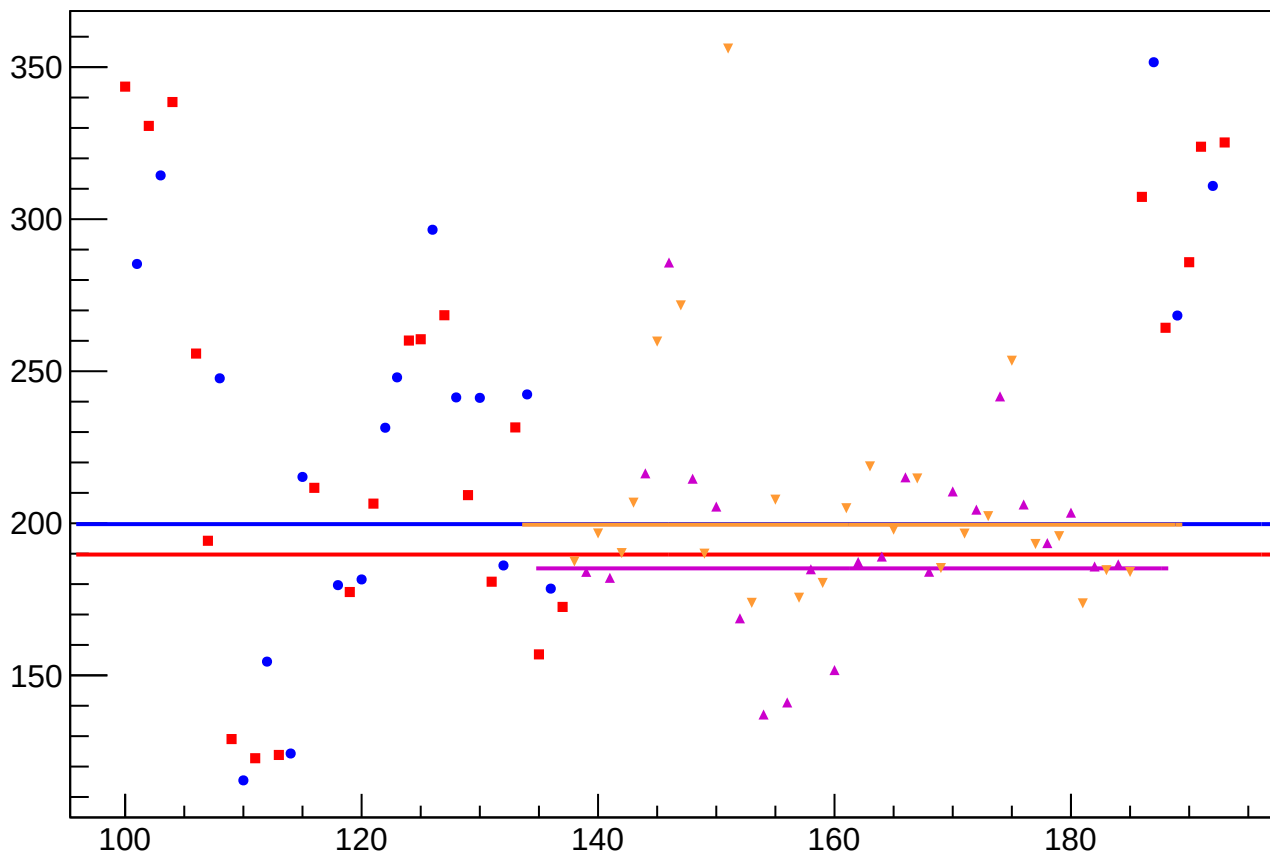
Right: -379.237 ± 48.879 $\chi^2/\text{NDF}: 11826.6/43$

In: -793.255 ± 38.894 $\chi^2/\text{NDF}: 15975.2/42$

Out: 91.959 ± 38.402 $\chi^2/\text{NDF}: 12539.2/48$

All: -345.010 ± 27.326 $\chi^2/\text{NDF}: 28776.6/91$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.724 $\pm$ 0.052 χ^2/NDF : 1360276.6/19

Left Out: 199.547 $\pm$ 0.034 χ^2/NDF : 729356.3/24

Right Out: 189.723 $\pm$ 0.046 χ^2/NDF : 2048642.0/23

Left In: 185.171 $\pm$ 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2/NDF : 1707122.0/47

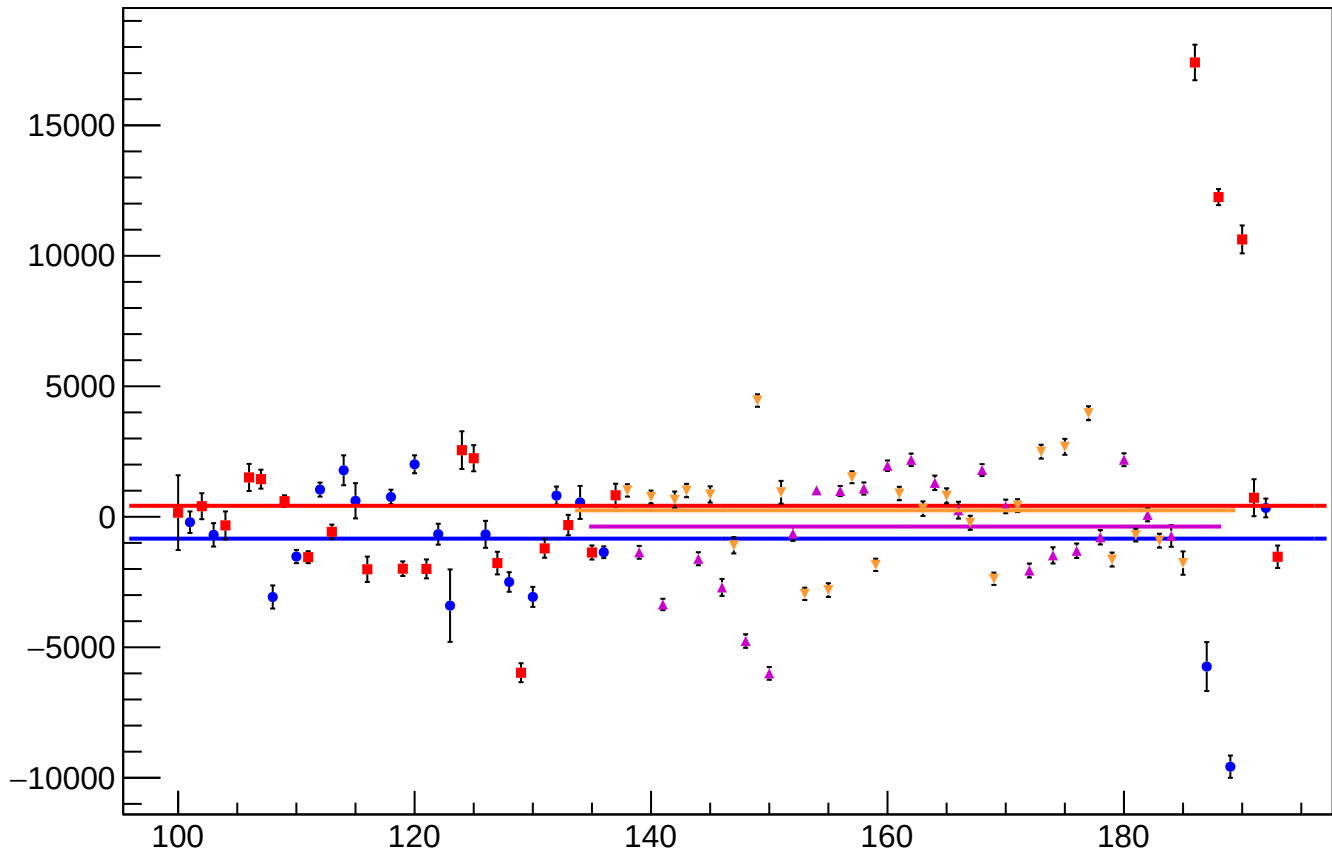
Right: 194.131 $\pm$ 0.035 χ^2/NDF : 3429557.1/43

In: 189.232 $\pm$ 0.028 χ^2/NDF : 2299366.9/42

Out: 196.155 $\pm$ 0.027 χ^2/NDF : 2807582.1/48

All: 192.738 $\pm$ 0.019 χ^2/NDF : 5139042.5/91

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -836.936 ± 84.156 $\chi^2/\text{NDF}: 759.4/19$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 421.606 ± 76.375 $\chi^2/\text{NDF}: 3150.8/23$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

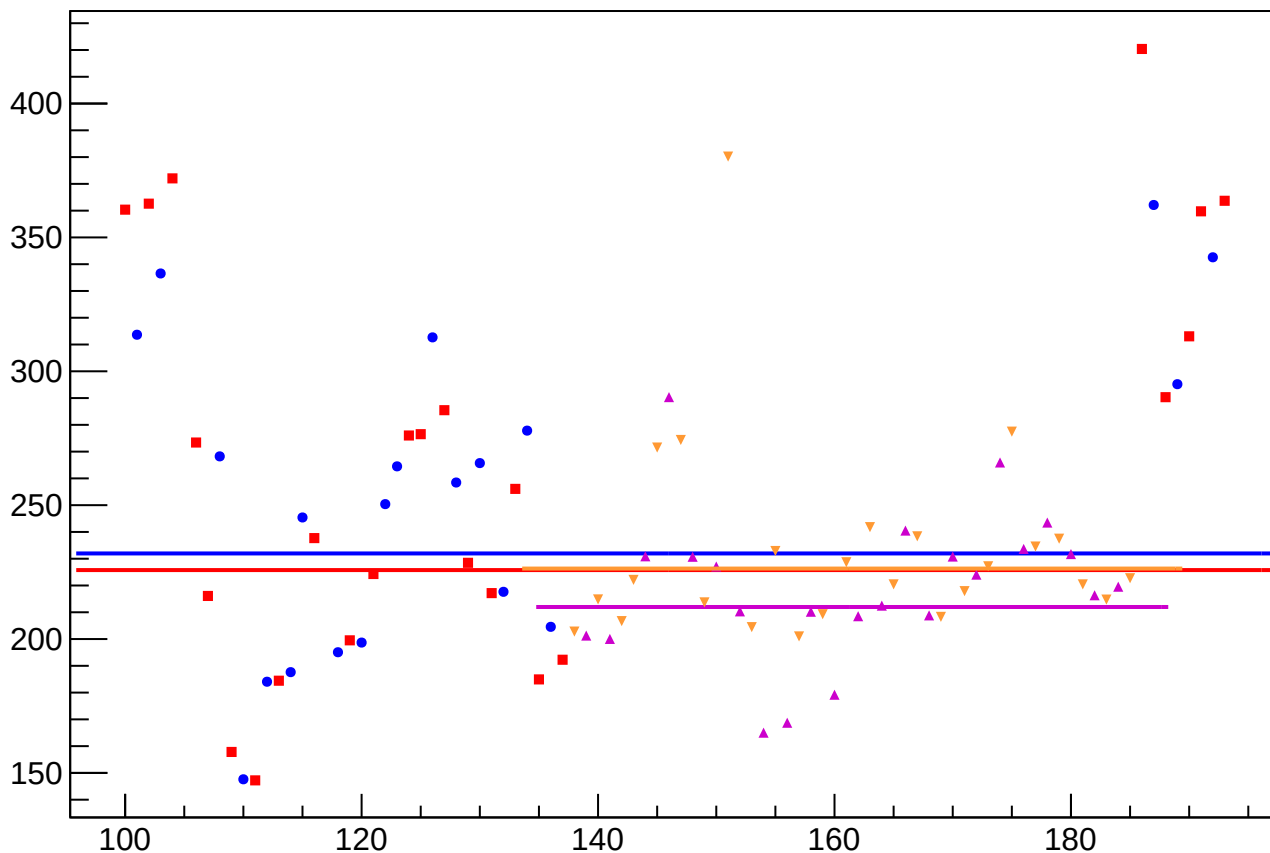
Right: -146.811 ± 56.557 $\chi^2/\text{NDF}: 4032.8/43$

In: -502.175 ± 44.267 $\chi^2/\text{NDF}: 2582.3/42$

Out: 305.119 ± 43.849 $\chi^2/\text{NDF}: 4509.3/48$

All: -94.702 ± 31.153 $\chi^2/\text{NDF}: 7259.5/91$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 231.969 ± 0.060 $\chi^2/\text{NDF}: 945257.7/19$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 225.756 ± 0.054 $\chi^2/\text{NDF}: 1539234.0/23$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

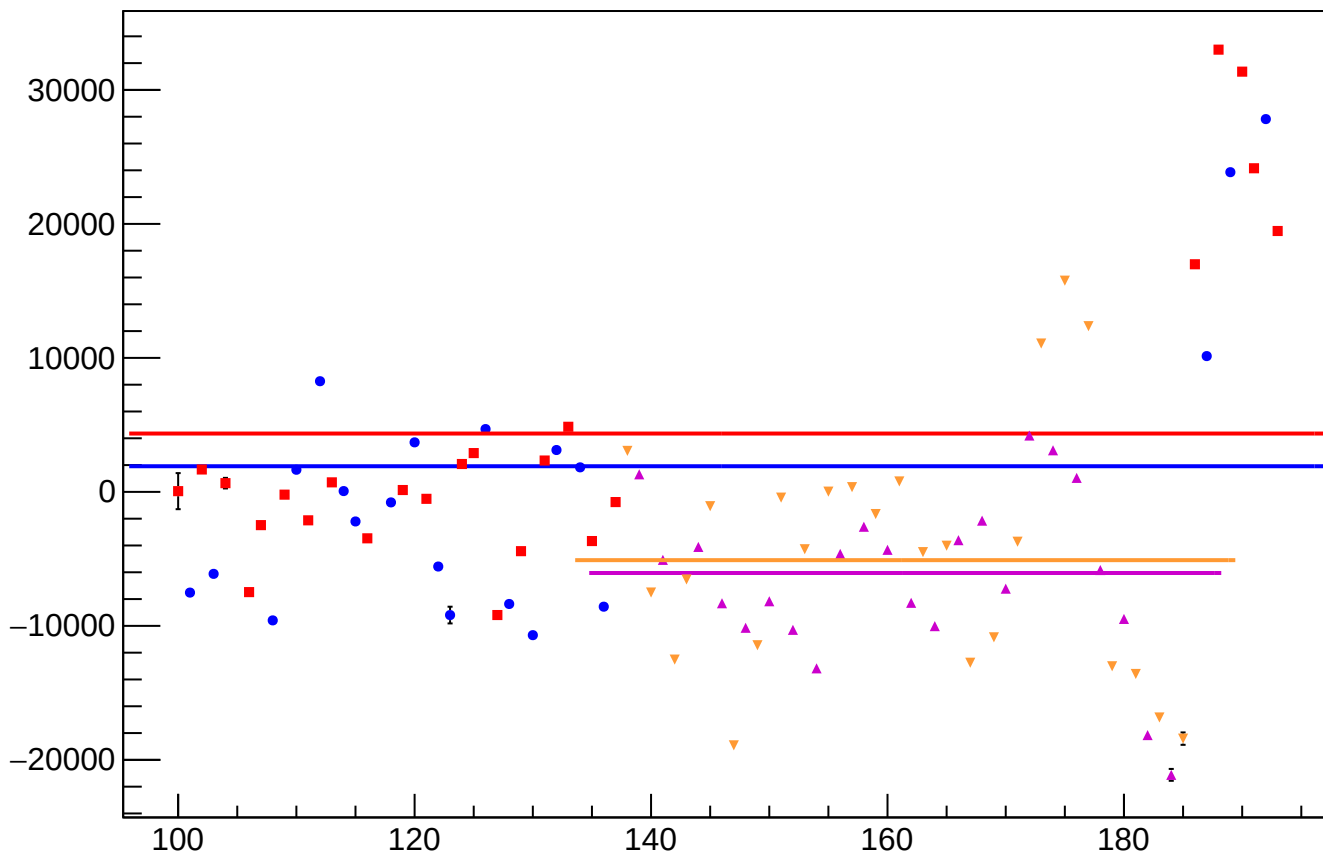
Right: 228.562 ± 0.040 $\chi^2/\text{NDF}: 2490469.0/43$

In: 217.504 ± 0.031 $\chi^2/\text{NDF}: 1611300.5/42$

Out: 226.135 ± 0.031 $\chi^2/\text{NDF}: 2060349.2/48$

All: 221.860 ± 0.022 $\chi^2/\text{NDF}: 3710033.5/91$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 1914.132+/-43.764 χ^2/NDF : 66286.8/19

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 4354.569+/-40.037 χ^2/NDF : 87720.0/23

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

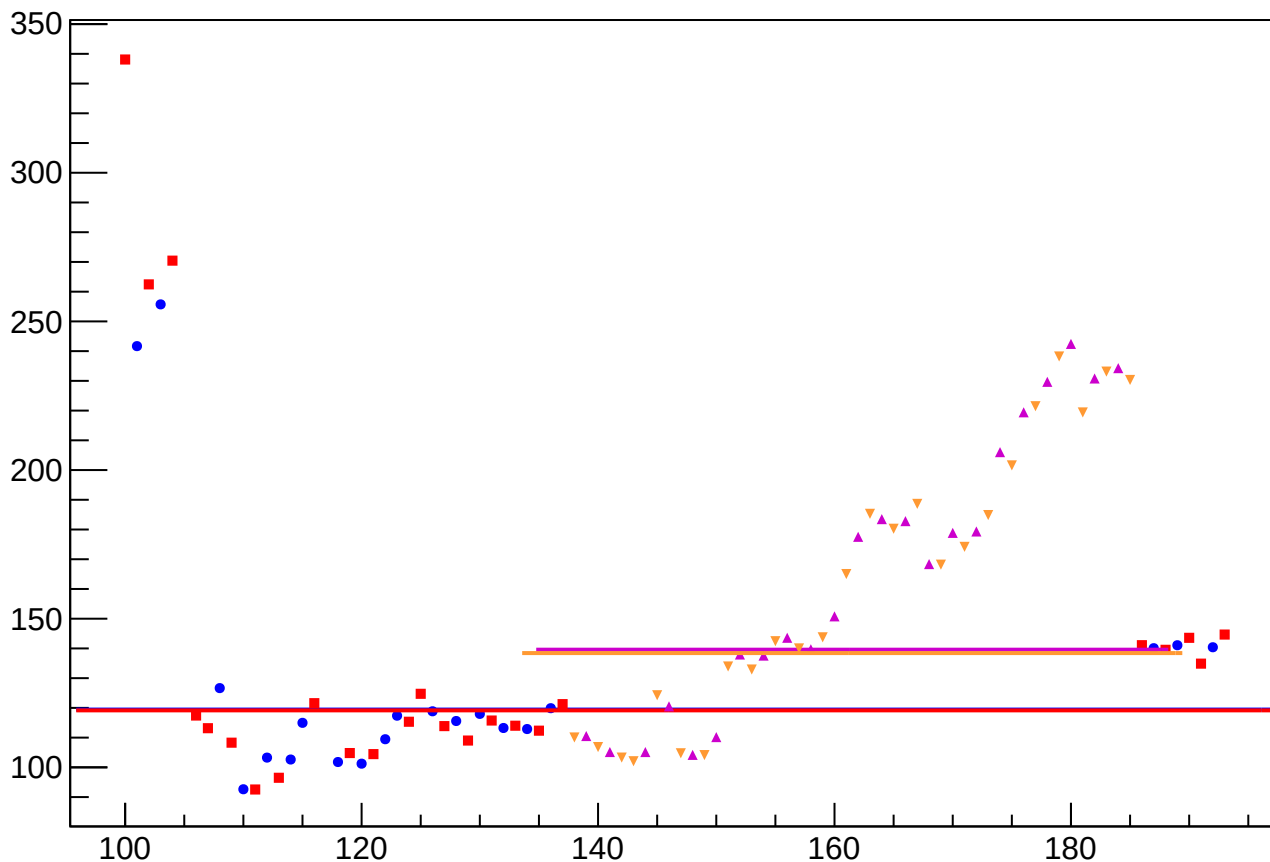
Right: 3242.664+/-29.540 χ^2/NDF : 155699.5/43

In: -2945.642+/-27.333 χ^2/NDF : 104094.0/42

Out: -1176.102+/-25.784 χ^2/NDF : 174719.7/48

All: -2009.317+/-18.756 χ^2/NDF : 281031.5/9

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 119.434+/-0.031 χ^2/NDF : 824616.6/19

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 119.166+/-0.028 χ^2/NDF : 955369.8/23

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

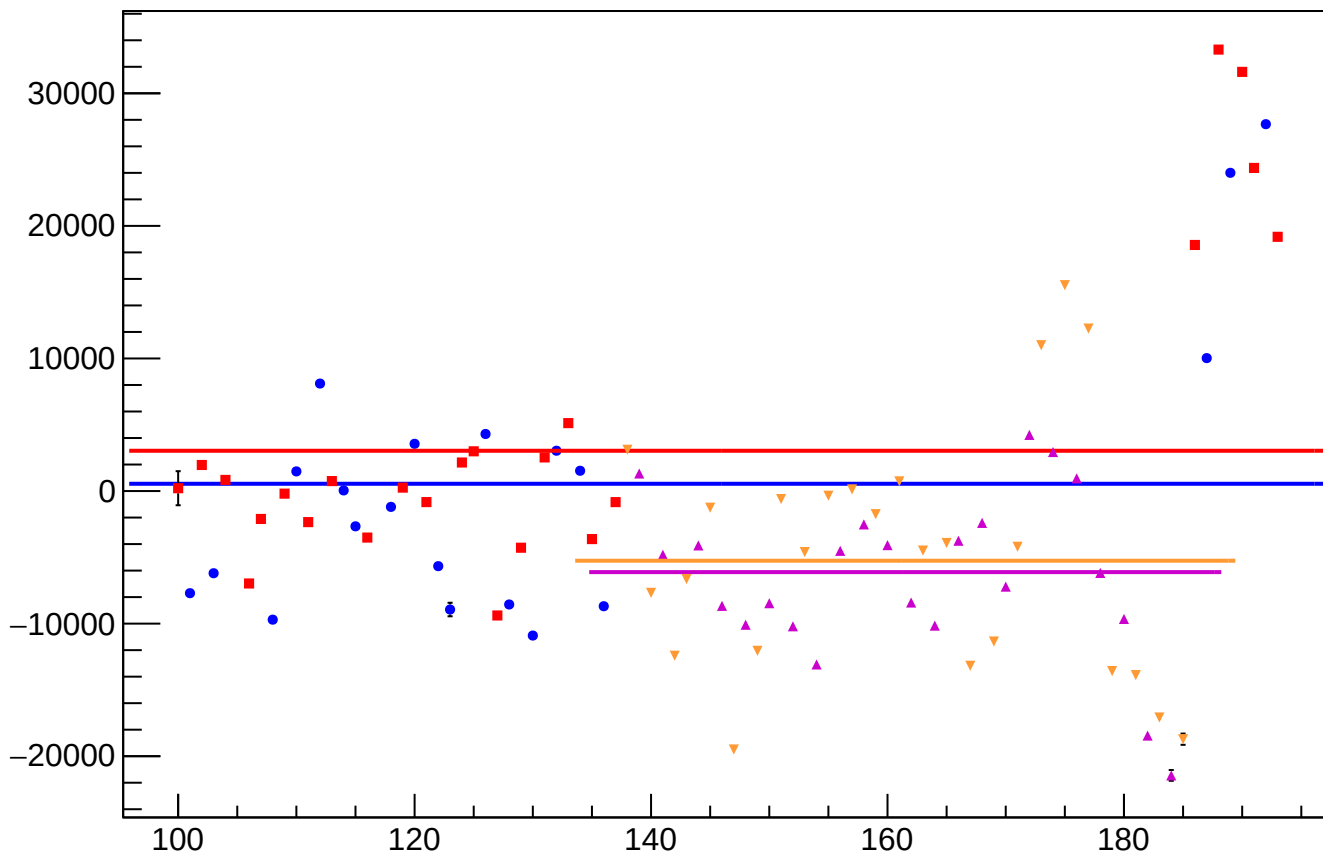
Right: 119.288+/-0.021 χ^2/NDF : 1780027.1/43

In: 131.720+/-0.019 χ^2/NDF : 3496715.8/42

Out: 130.444+/-0.018 χ^2/NDF : 3775946.5/48

All: 131.045+/-0.013 χ^2/NDF : 7274970.3/91

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 548.742 $\pm$ 37.915 χ^2/NDF : 70775.0/19

Left Out: -5255.652 $\pm$ 30.622 χ^2/NDF : 64324.6/24

Right Out: 3038.488 $\pm$ 34.961 χ^2/NDF : 96314.5/23

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

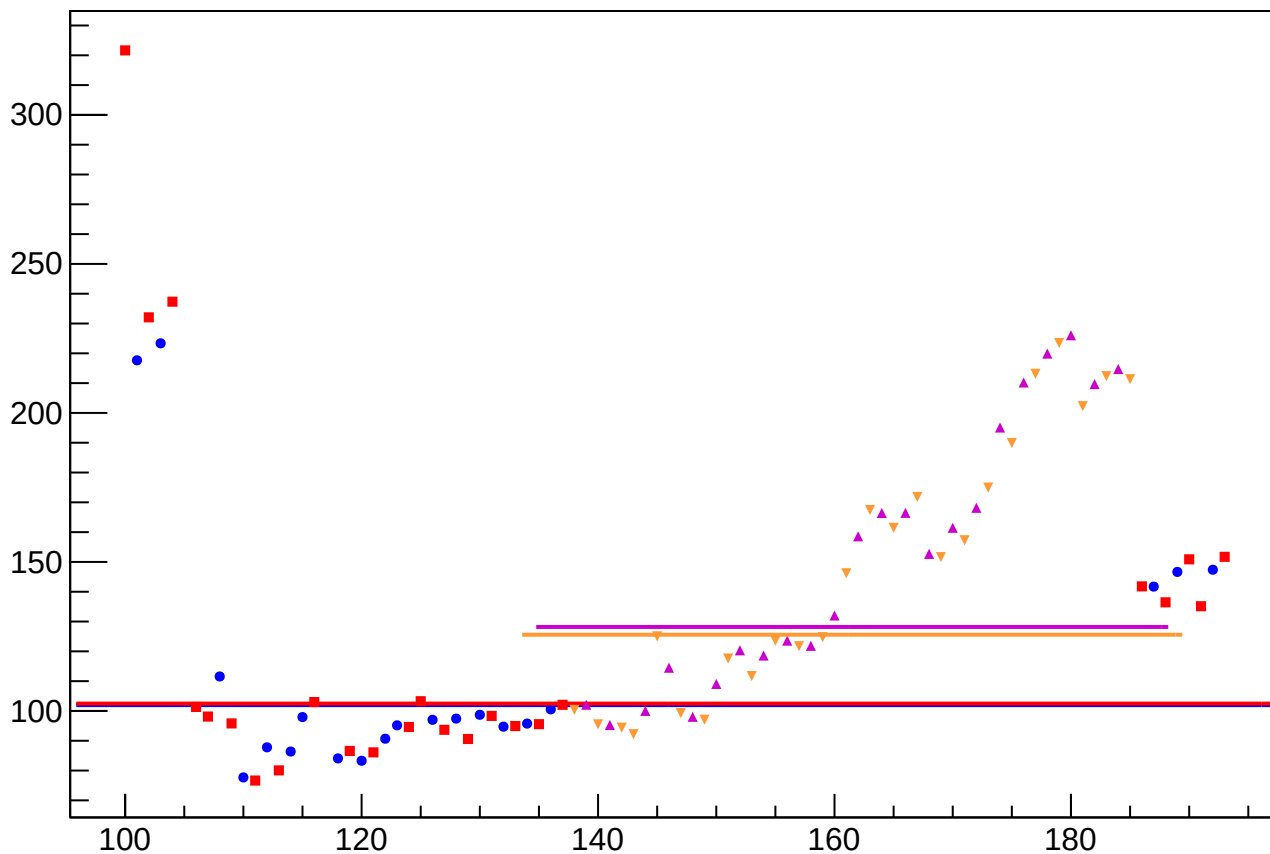
Right: 1894.380 $\pm$ 25.702 χ^2/NDF : 169420.1/43

In: -3330.160 $\pm$ 24.510 χ^2/NDF : 110016.1/42

Out: -1654.932 $\pm$ 23.035 χ^2/NDF : 192488.1/48

All: -2440.619 $\pm$ 16.786 χ^2/NDF : 304984.7/9

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 101.959+/-0.027 χ^2/NDF : 1131725.2/19

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 102.471+/-0.025 χ^2/NDF : 1352216.4/23

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

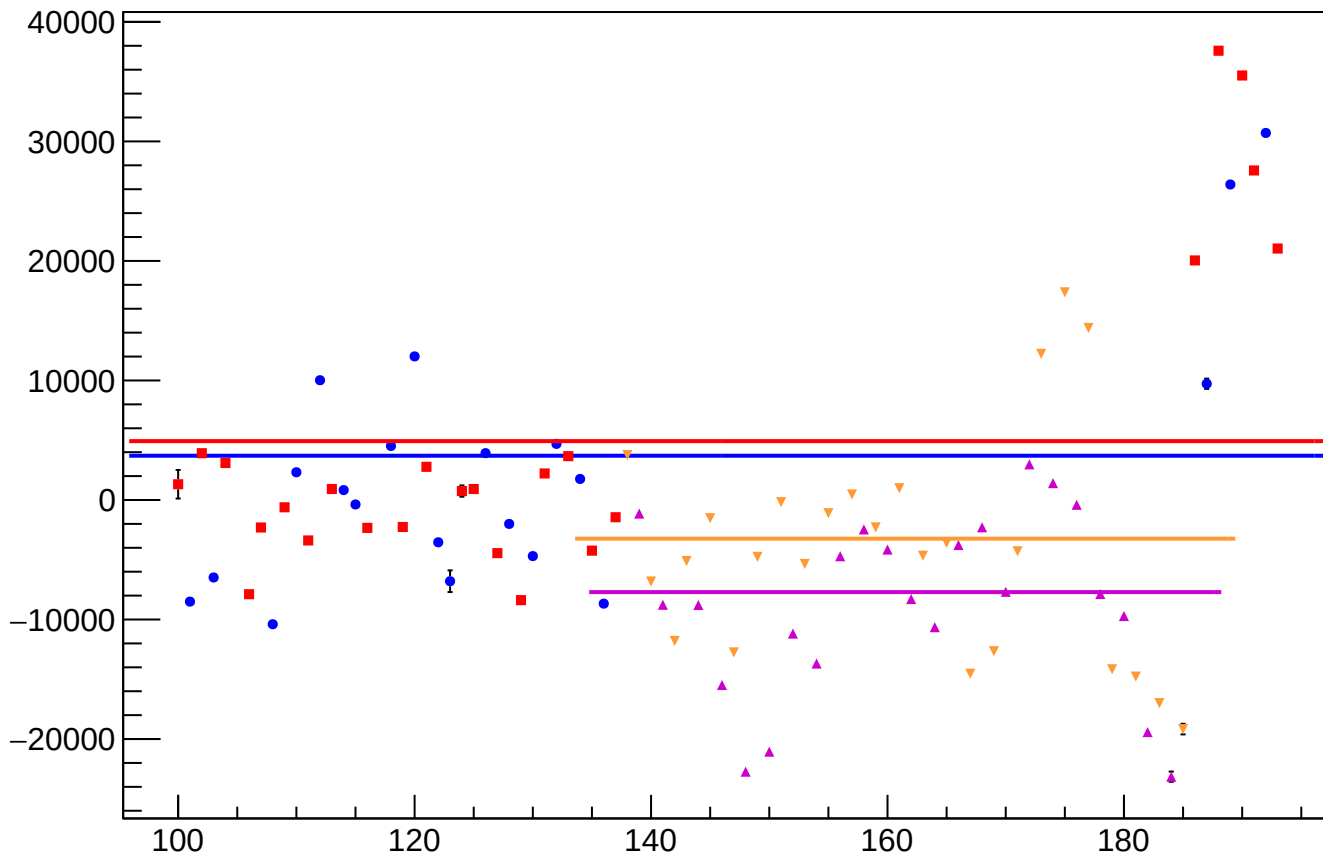
Right: 102.236+/-0.018 χ^2/NDF : 2484138.3/43

In: 117.224+/-0.017 χ^2/NDF : 4021648.9/42

Out: 115.546+/-0.016 χ^2/NDF : 4442340.7/48

All: 116.333+/-0.012 χ^2/NDF : 8468969.3/91

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 3702.733+/-50.846 χ^2/NDF : 52333.2/19

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 4925.251+/-46.715 χ^2/NDF : 79919.8/23

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

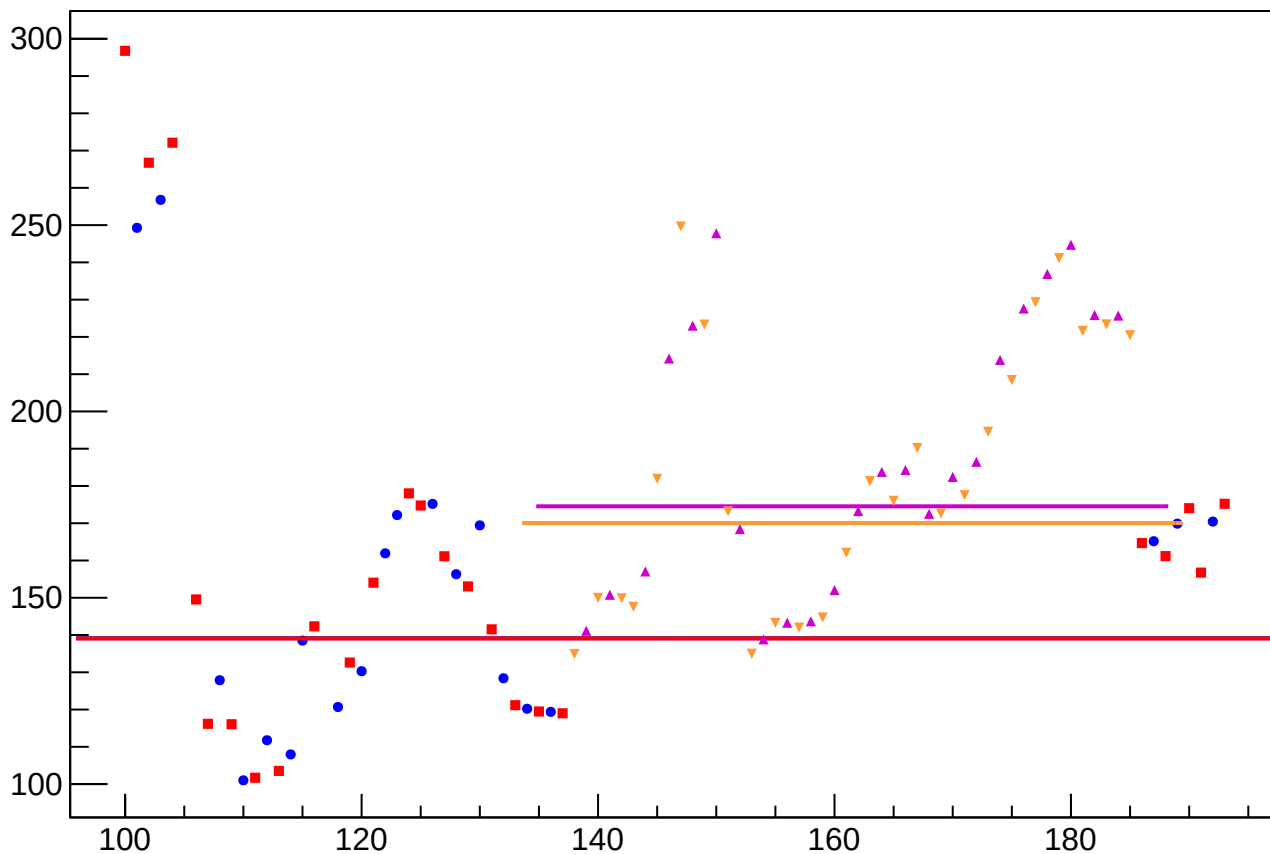
Right: 4365.663+/-34.400 χ^2/NDF : 132566.4/43

In: -2950.730+/-32.829 χ^2/NDF : 102965.7/42

Out: 274.775+/-30.637 χ^2/NDF : 134049.2/48

All: -1226.705+/-22.398 χ^2/NDF : 242174.8/9

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 139.127+/-0.036 χ^2/NDF : 902325.3/19

Left Out: 170.050+/-0.029 χ^2/NDF :1240866.9/24

Right Out: 139.096+/-0.033 χ^2/NDF : 1046679.5/23

Left In: 174.539+/-0.030 χ^2/NDF :1210071.2/22

Left: 172.165+/-0.021 χ^2/NDF : 2462472.2/47

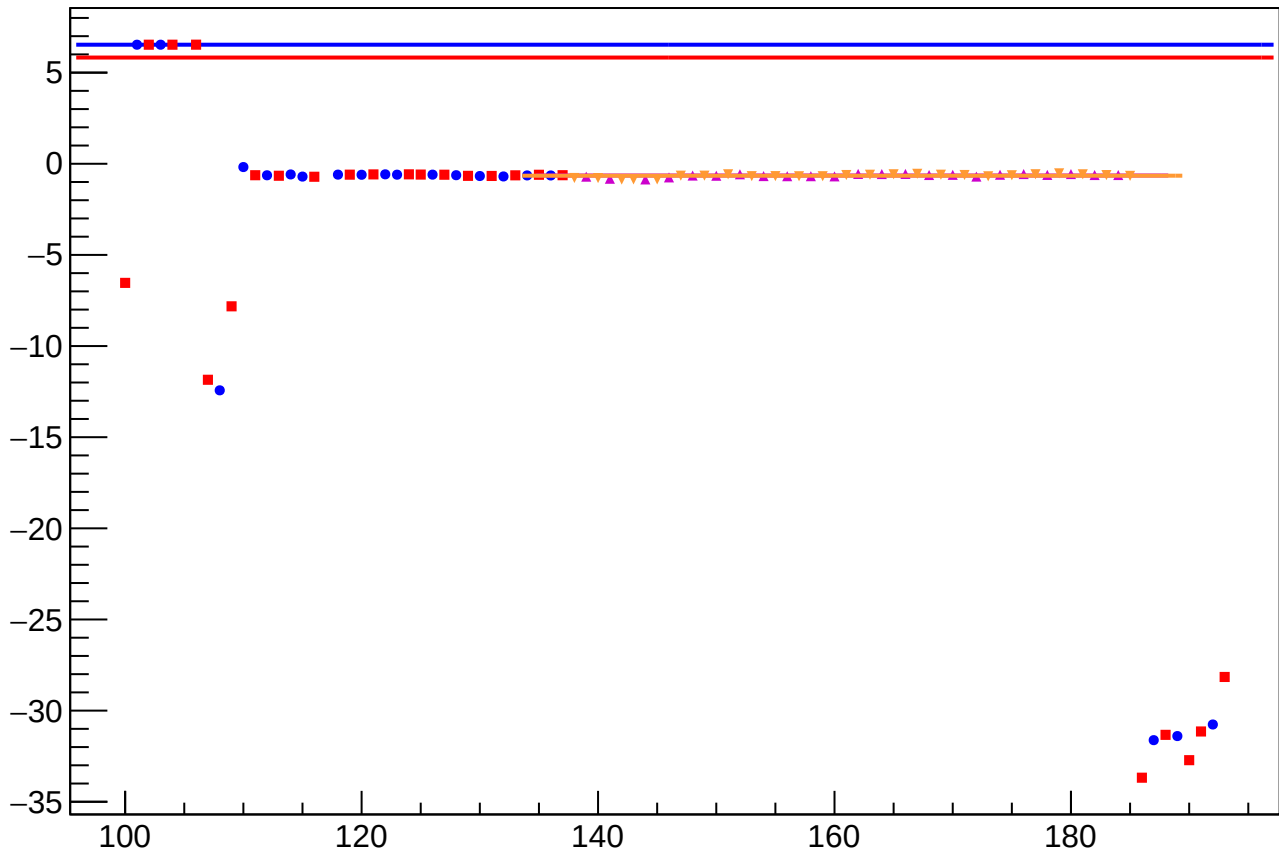
Right: 139.110+/-0.024 χ^2/NDF : 1949005.2/43

In: 159.777+/-0.023 χ^2/NDF :2678114.8/42

Out: 156.736+/-0.022 χ^2/NDF :2787990.4/48

All: 158.152+/-0.016 χ^2/NDF : 5475277.0/91

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127691620960.8/19

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947552054333.9/23

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

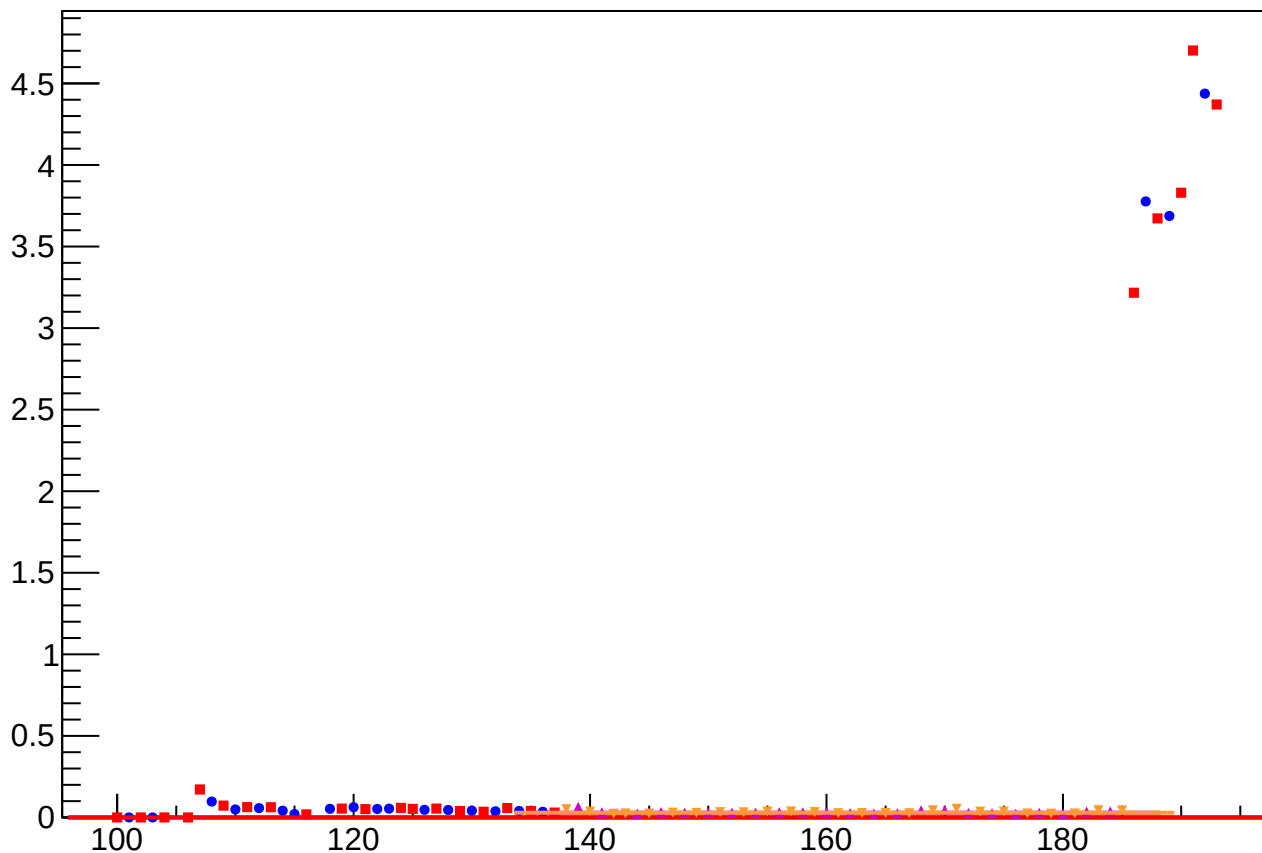
Right: 6.155+/-0.000 χ^2/NDF : 776078412653859.5/48

In: 6.530+/-0.000 χ^2/NDF : 953039028582.2/42

Out: 5.826+/-0.000 χ^2/NDF : 756656580716740.5/43

All: 6.153+/-0.000 χ^2/NDF : 77760178244083.9/97

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12008629.2/19

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14348292.7/23

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

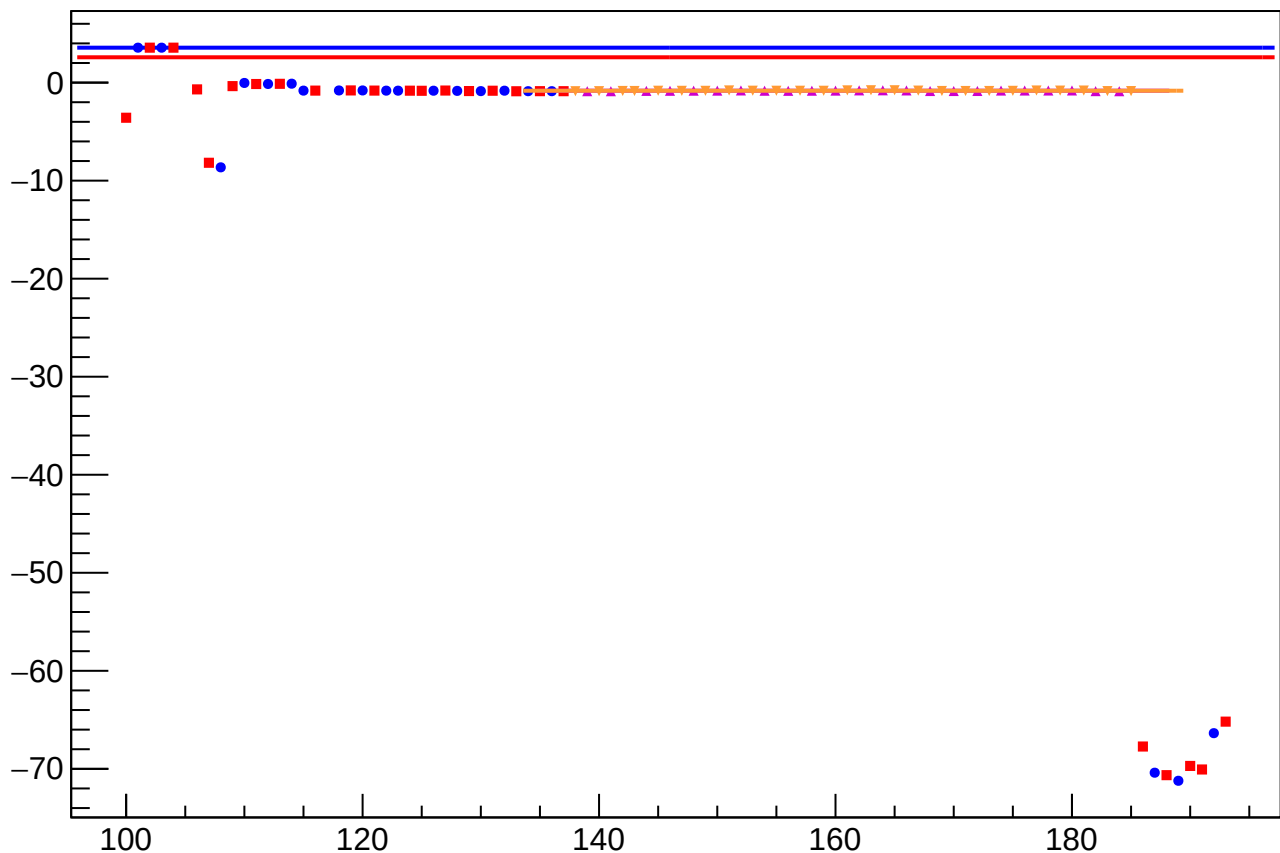
Right: 0.000+/-0.000 χ^2/NDF : 26357171.5/43

In: 0.000+/-0.000 χ^2/NDF :39970326.2/42

Out: 0.000+/-0.000 χ^2/NDF :44223980.5/48

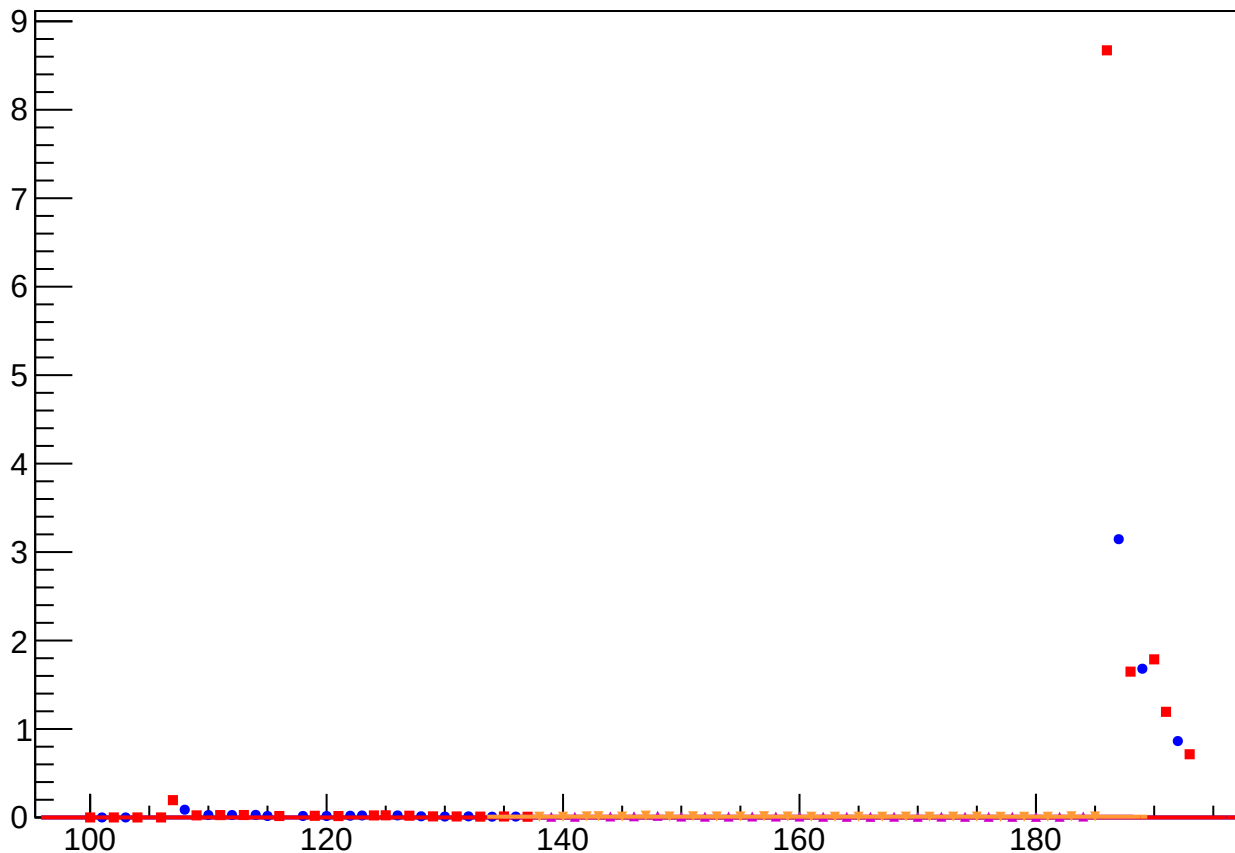
All: 0.000+/-0.000 χ^2/NDF : 84194721.7/91

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 490257120877.1/19	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382274390321667.5
Right Out: 2.583+/-0.000	χ^2/NDF : 1253512912855622.2/23	In: 3.560+/-0.000	χ^2/NDF : 4136010056056.9/42
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255735244909945.8
		All: 3.038+/-0.000	χ^2/NDF : 1387960864906

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12271644.6/19

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14341888.5/23

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

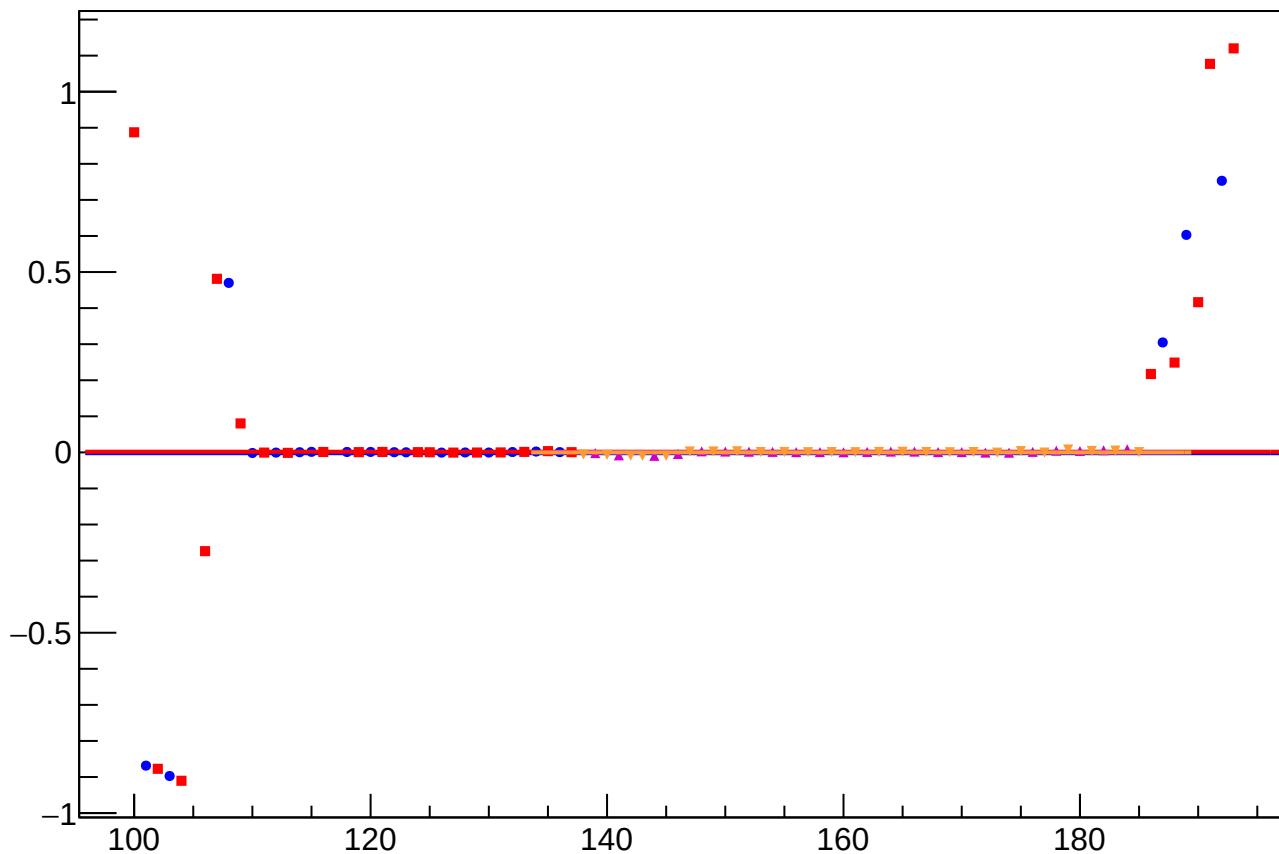
Right: 0.000+/-0.000 χ^2/NDF : 26613813.4/43

In: 0.000+/-0.000 χ^2/NDF :41807771.6/42

Out: 0.000+/-0.000 χ^2/NDF :45760564.2/48

All: 0.000+/-0.000 χ^2/NDF : 87569088.9/91

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795746641.5/19

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3041818396.0/23

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

Left: 0.000+/-0.000

χ^2/NDF : 254436385.6/47

Right: -0.000+/-0.000

χ^2/NDF : 12851332931.3/43

In: -0.000+/-0.000

χ^2/NDF : 9908204150.4/42

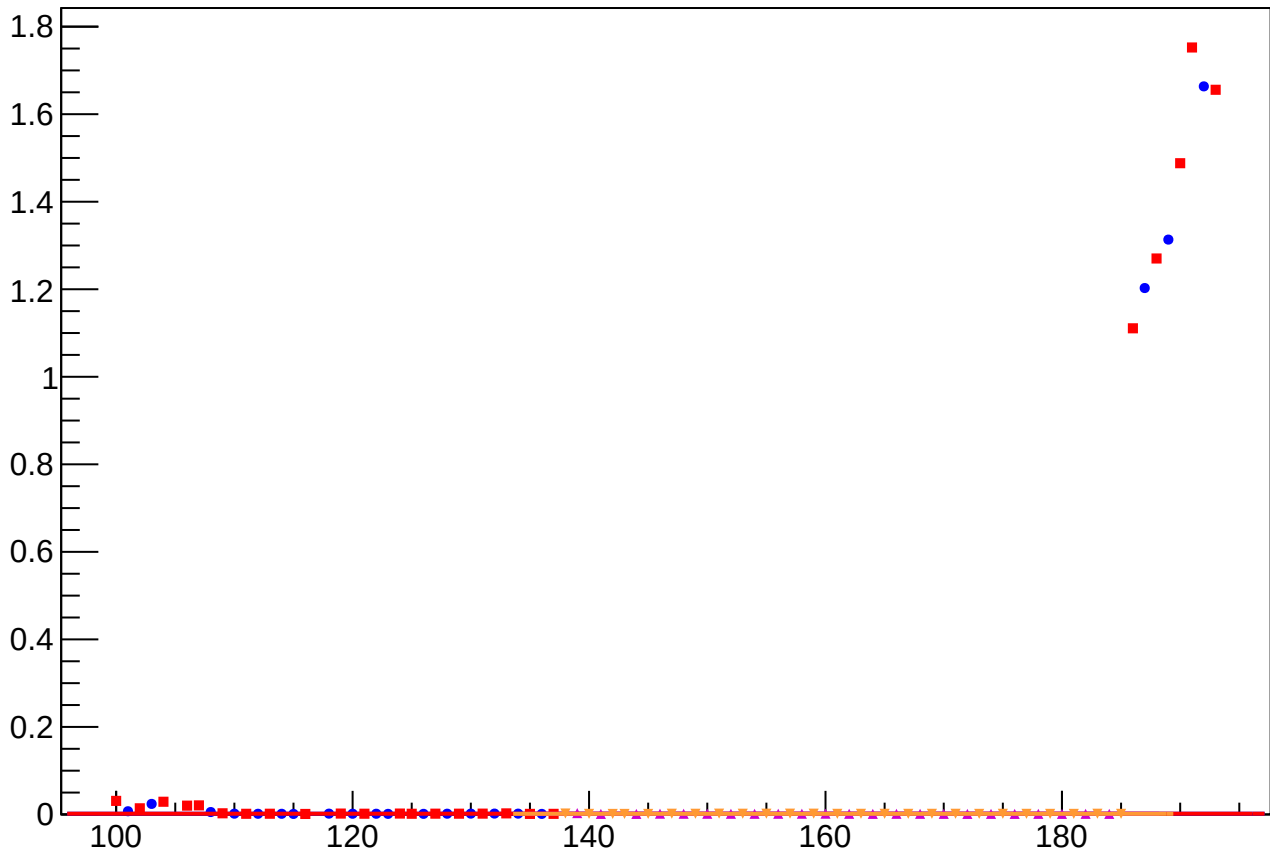
Out: 0.000+/-0.000

χ^2/NDF : 3198029484.6/48

All: 0.000+/-0.000

χ^2/NDF : 13106570640.9/95

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4906072.5/19

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 7999196.7/23

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

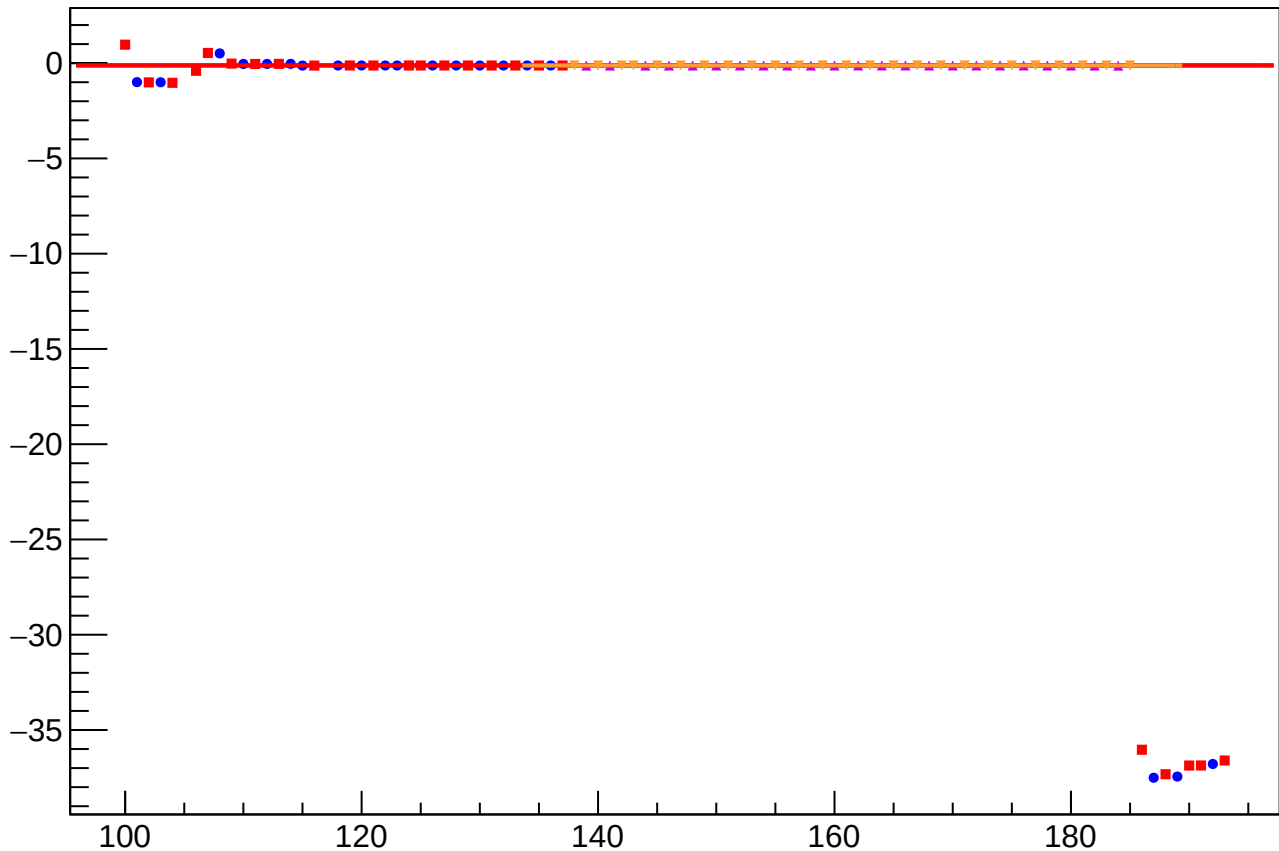
Right: 0.002+/-0.000 χ^2/NDF : 12913770.4/43

In: 0.002+/-0.000 χ^2/NDF : 5582453.3/42

Out: 0.002+/-0.000 χ^2/NDF : 8675805.5/48

All: 0.002+/-0.000 χ^2/NDF : 14259162.5/91

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 15362188217.5/19

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 19464135566.8/23

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

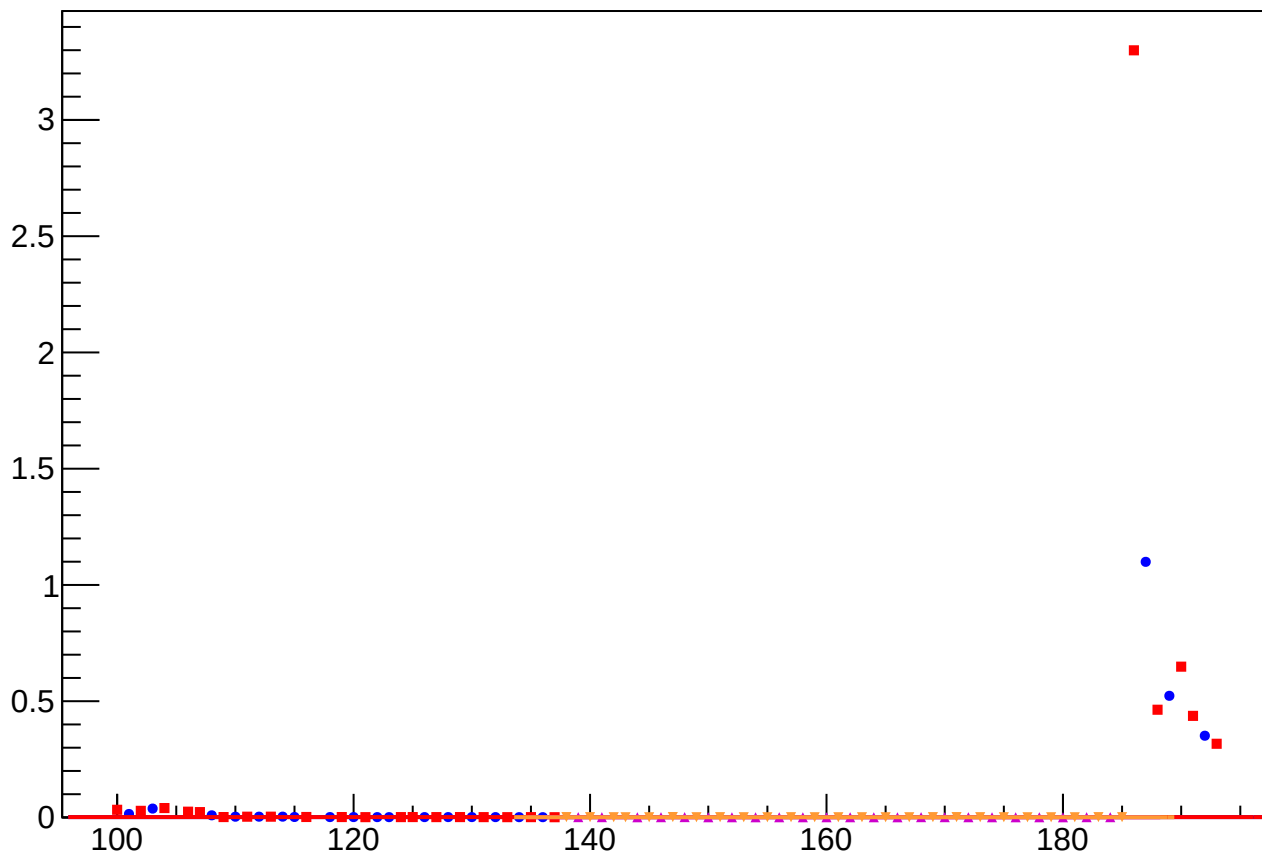
Right: -0.118+/-0.000 χ^2/NDF : 34848658318.0/43

In: -0.121+/-0.000 χ^2/NDF : 15414590066.7/42

Out: -0.121+/-0.000 χ^2/NDF : 19572841546.0/48

All: -0.121+/-0.000 χ^2/NDF : 34988345740.0/97

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5695126.0/19

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 8328662.6/23

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

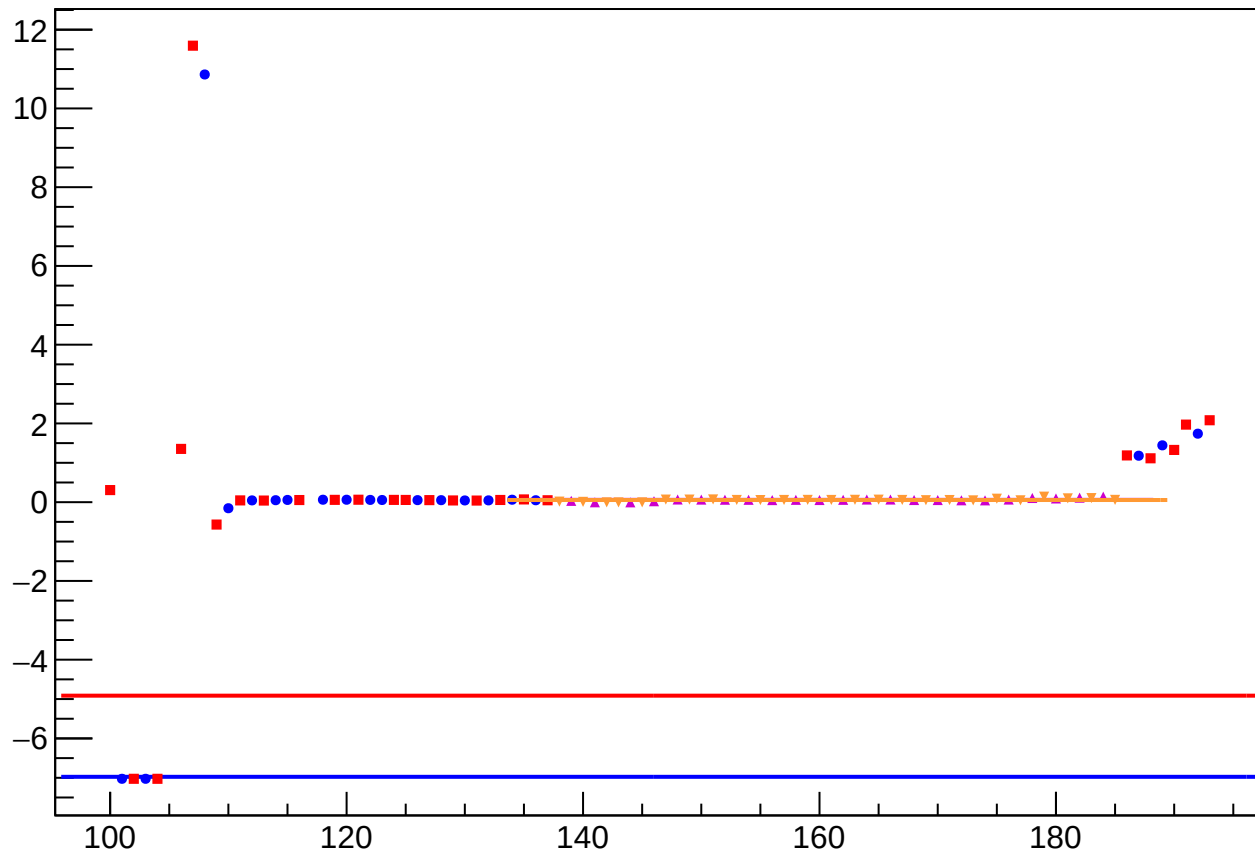
Right: 0.002+/-0.000 χ^2/NDF : 14023898.5/43

In: 0.001+/-0.000 χ^2/NDF :7812868.9/42

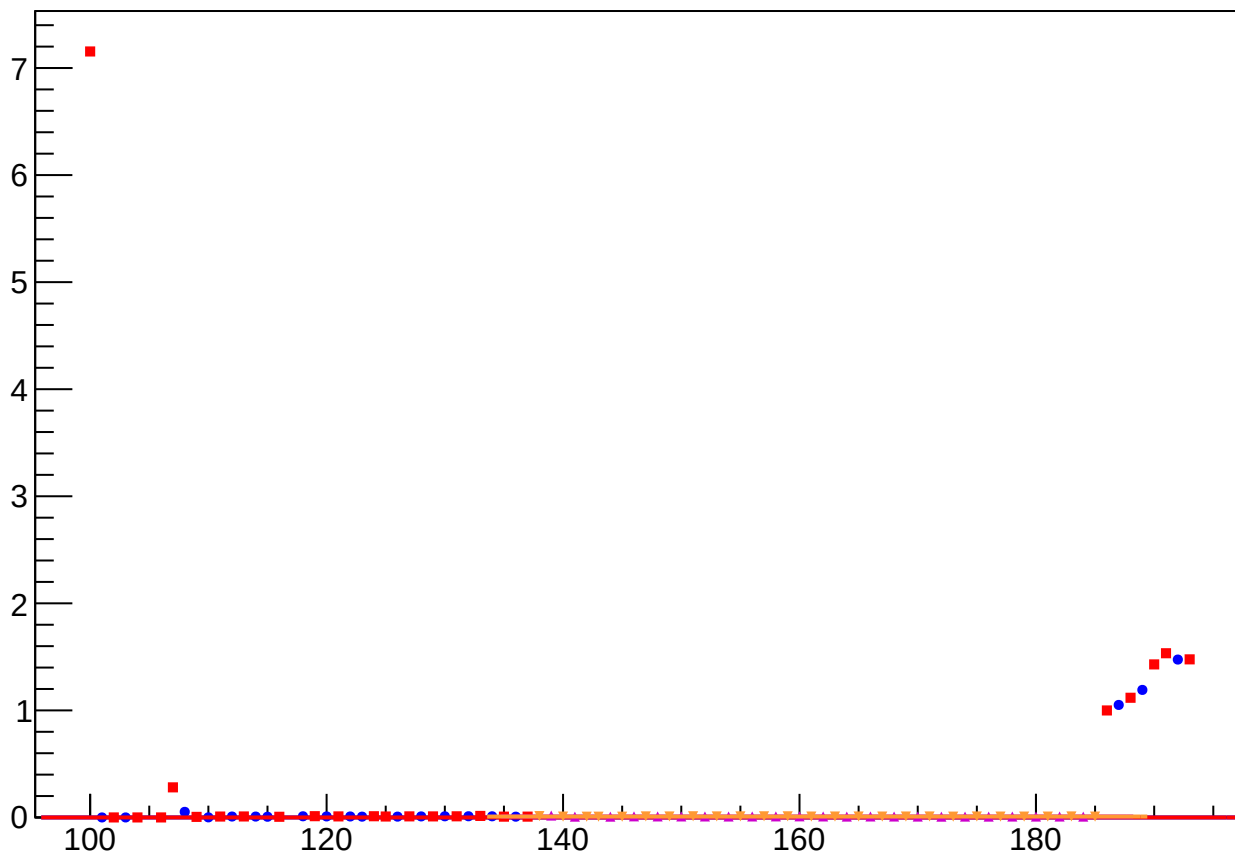
Out: 0.001+/-0.000 χ^2/NDF :10845608.8/48

All: 0.001+/-0.000 χ^2/NDF : 18661005.4/91

yield_cav4dX_mean vs Slug, Sign Corrected



yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11341686.2/19

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 13768211.4/23

Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

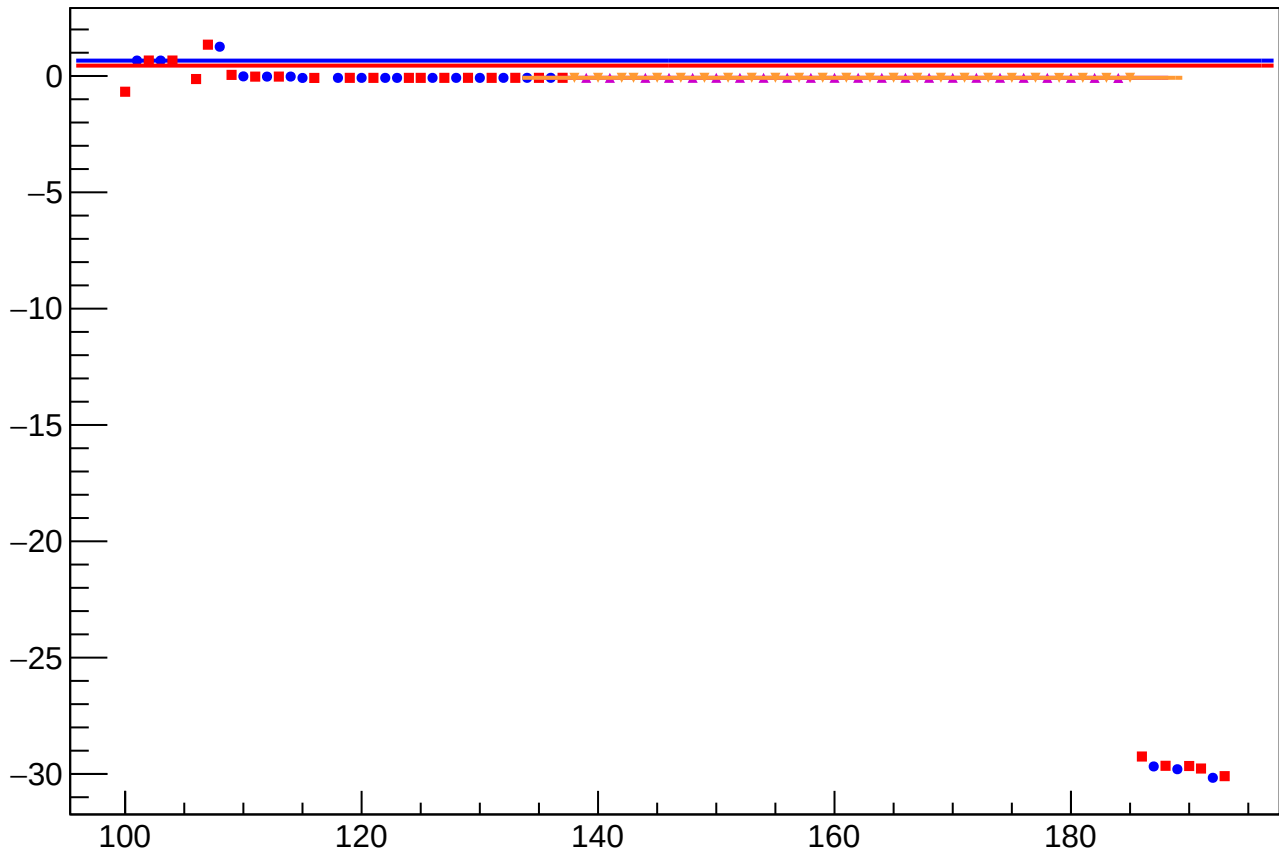
Right: 0.000+/-0.000 χ^2/NDF : 25110243.2/43

In: 0.000+/-0.000 χ^2/NDF : 38760389.3/42

Out: 0.000+/-0.000 χ^2/NDF : 42713036.9/48

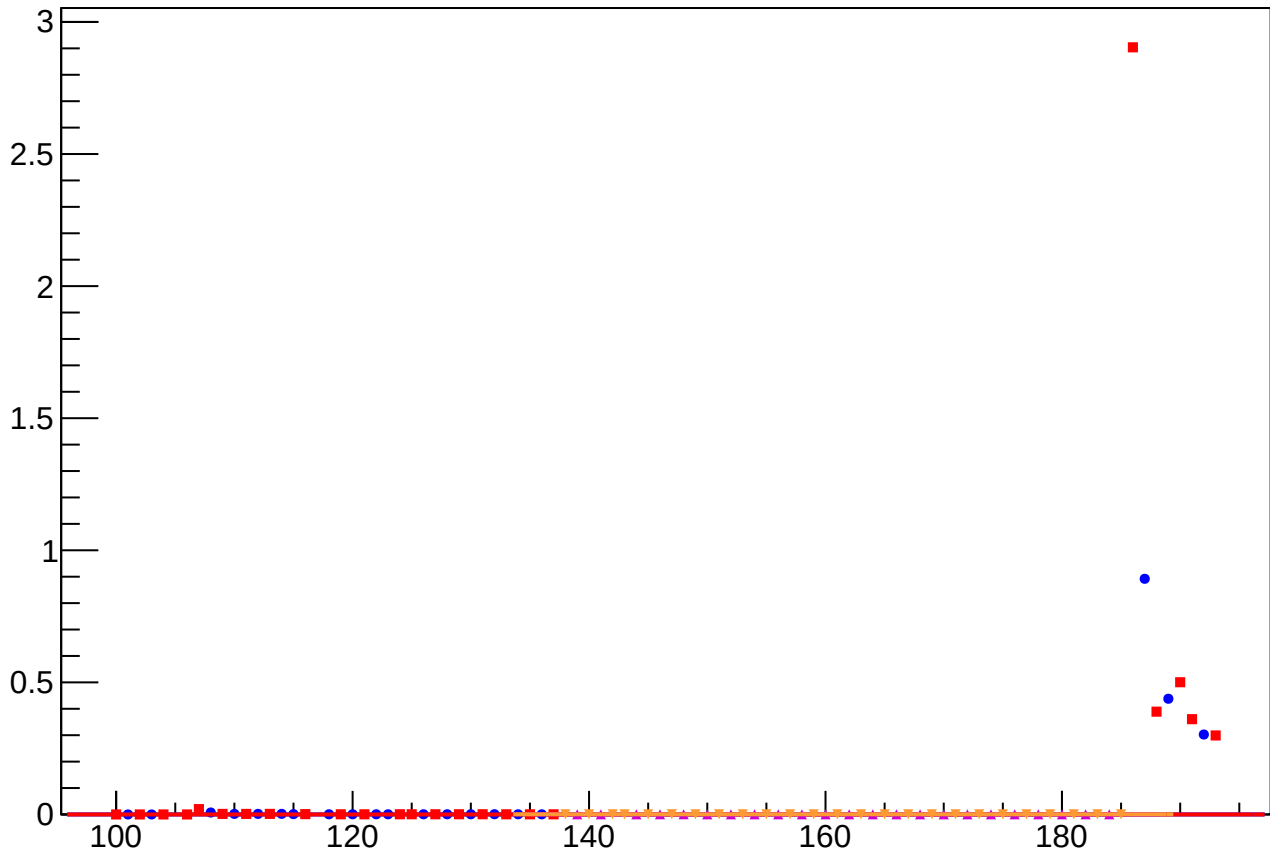
All: 0.000+/-0.000 χ^2/NDF : 81473888.3/91

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5670140036068.3/19	Left: -0.078+/-0.000	χ^2/NDF : 267206251.1/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156404795.7/24	Right: 0.549+/-0.000	χ^2/NDF : 474027014064260.5
Right Out: 0.446+/-0.000	χ^2/NDF : 405443566275412.9/23	In: 0.647+/-0.000	χ^2/NDF : 33710864340917.9/42
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420604674912755.9/4
		All: 0.537+/-0.000	χ^2/NDF : 51587147507919

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12893945.9/19

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14365682.7/23

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

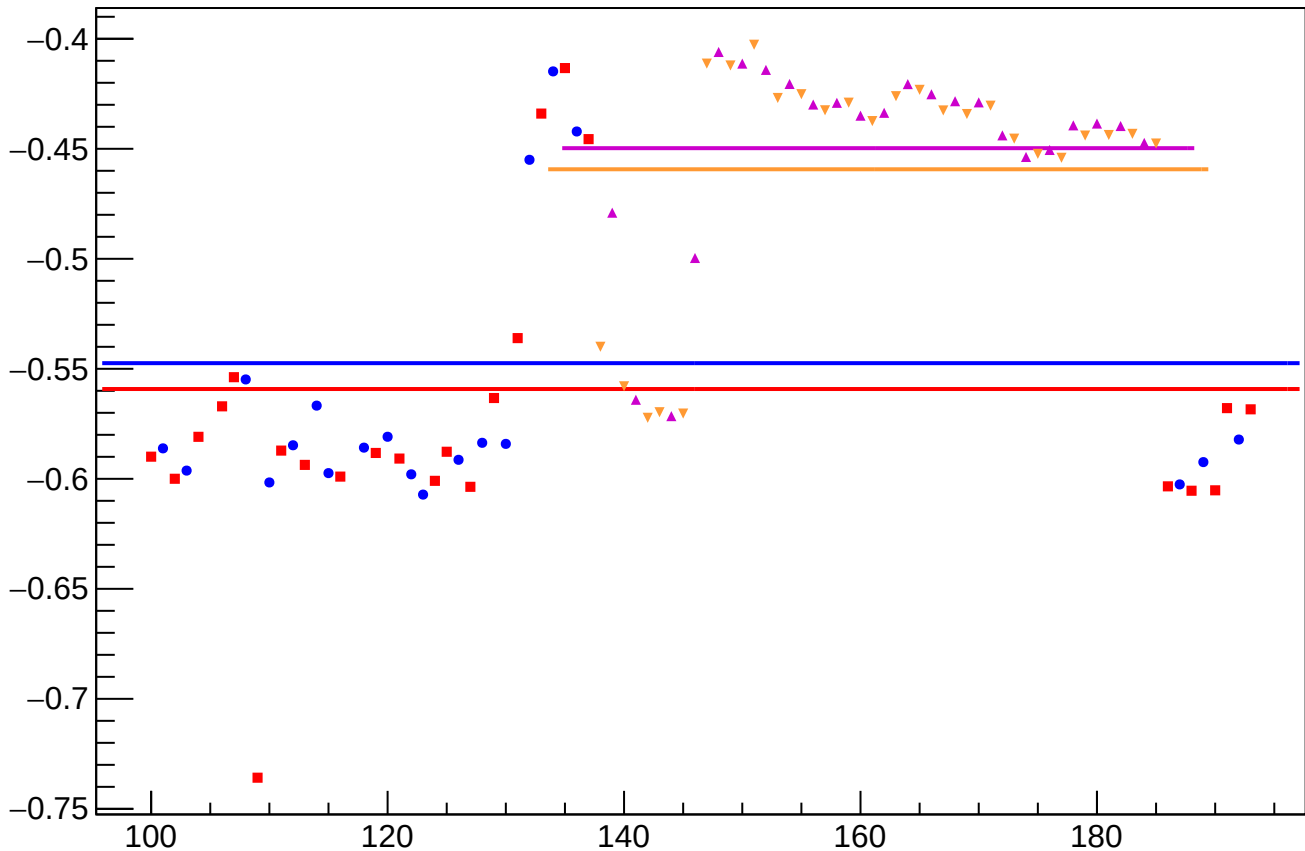
Right: 0.000+/-0.000 χ^2/NDF : 27259644.0/43

In: 0.000+/-0.000 χ^2/NDF : 43626908.2/42

Out: 0.000+/-0.000 χ^2/NDF : 46987467.7/48

All: 0.000+/-0.000 χ^2/NDF : 90614710.7/91

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547 $\pm$ 0.000 χ^2 /NDF: 47158276.5/19

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113602161.0/24

Right Out: -0.559 $\pm$ 0.000 χ^2 /NDF: 65528401.3/23

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF: 76117957.8/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191493218.8/47

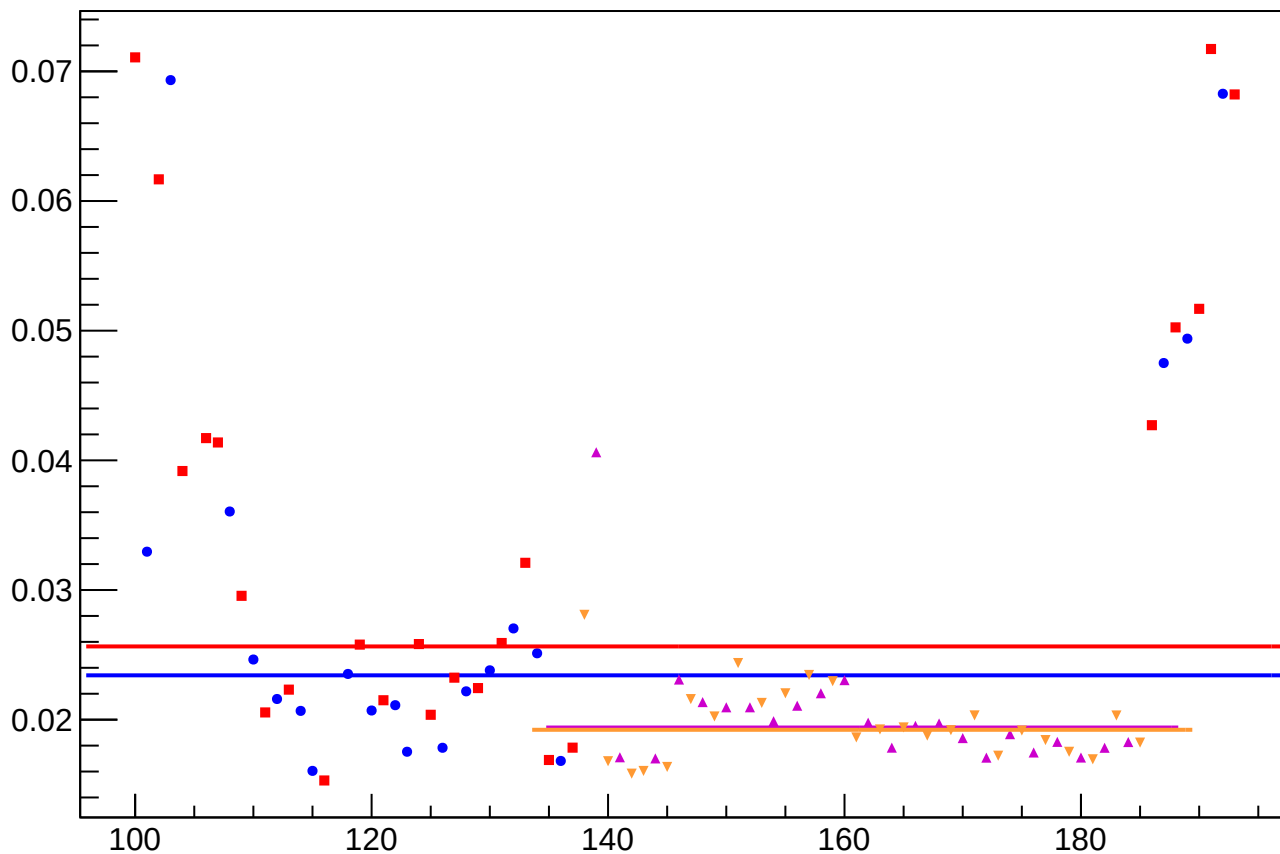
Right: -0.553 $\pm$ 0.000 χ^2 /NDF: 113434288.7/43

In: -0.472 $\pm$ 0.000 χ^2 /NDF: 204134433.2/42

Out: -0.480 $\pm$ 0.000 χ^2 /NDF: 263287194.0/48

All: -0.476 $\pm$ 0.000 χ^2 /NDF: 469106445.0/91

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2101580.8/19

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.026+/-0.000 χ^2/NDF : 2707415.8/23

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

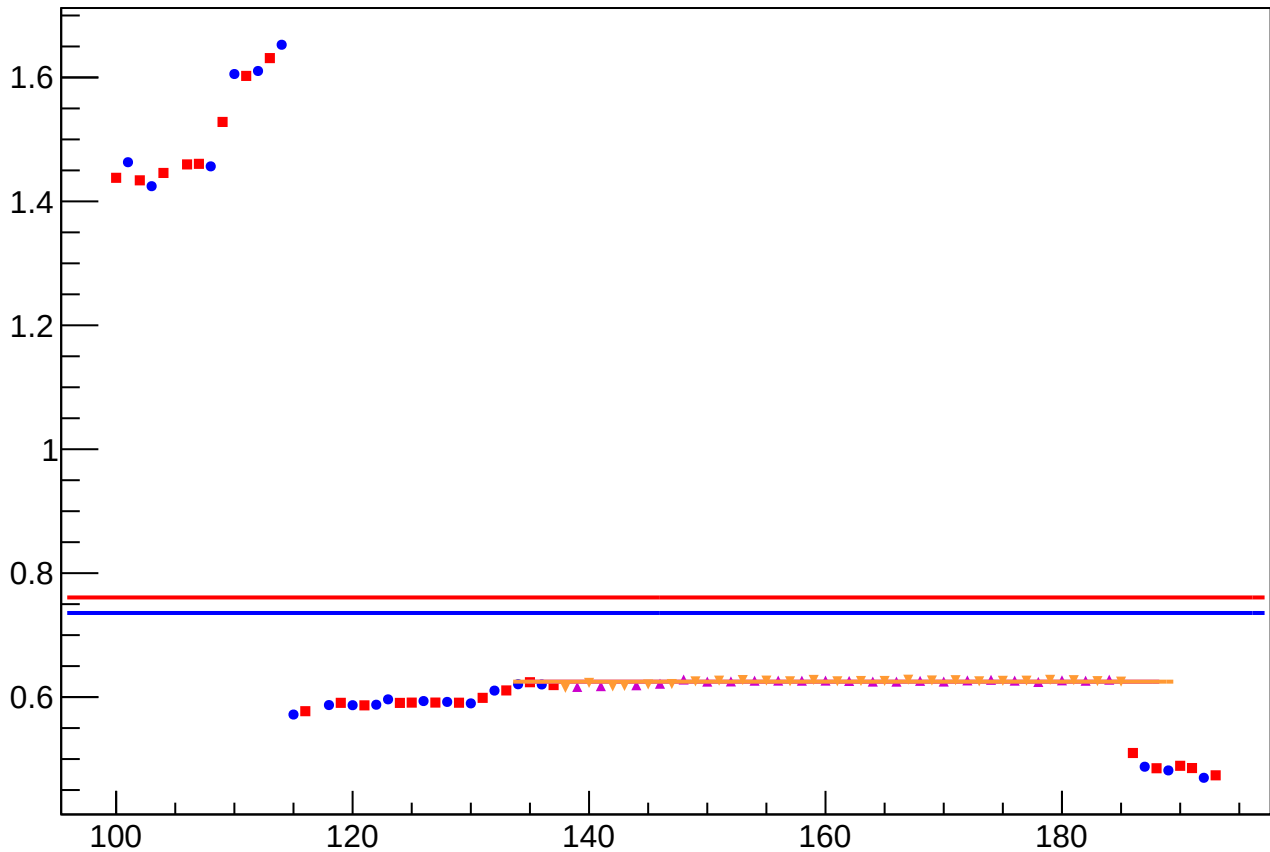
Right: 0.025+/-0.000 χ^2/NDF : 4862780.7/43

In: 0.020+/-0.000 χ^2/NDF : 3002455.9/42

Out: 0.021+/-0.000 χ^2/NDF : 3906494.1/48

All: 0.020+/-0.000 χ^2/NDF : 6912208.8/91

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.736 $\pm$ 0.000 χ^2 /NDF: 4050680870.5/19

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.761 $\pm$ 0.000 χ^2 /NDF: 4874581146.2/23

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2589565.7/47

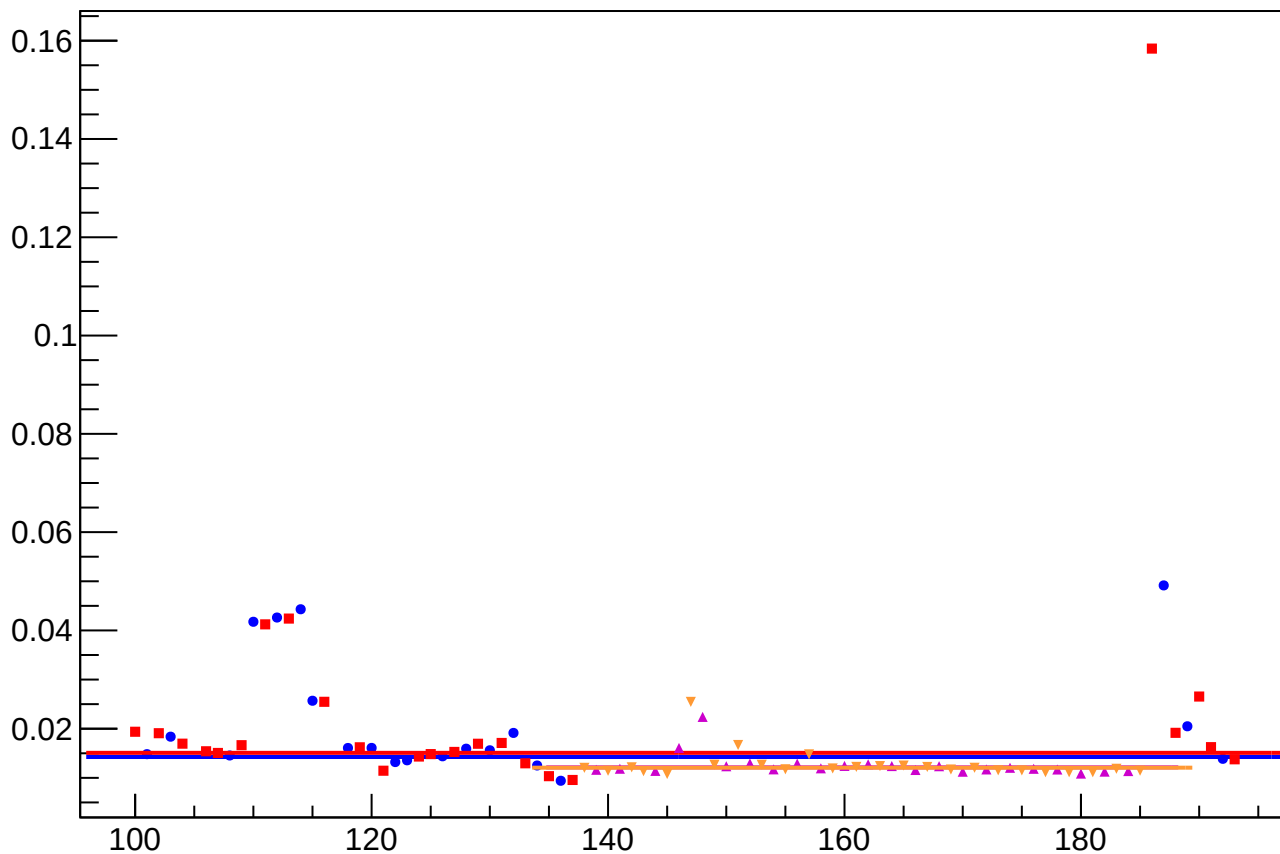
Right: 0.748 $\pm$ 0.000 χ^2 /NDF: 8936179043.5/43

In: 0.651 $\pm$ 0.000 χ^2 /NDF:4376713277.9/42

Out: 0.655 $\pm$ 0.000 χ^2 /NDF:5379160619.4/48

All: 0.653 $\pm$ 0.000 χ^2 /NDF: 9757644954.1/91

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1623164.0/19

Left Out: 0.012+/-0.000 χ^2/NDF : 657199.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2054811.8/23

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1146061.0/47

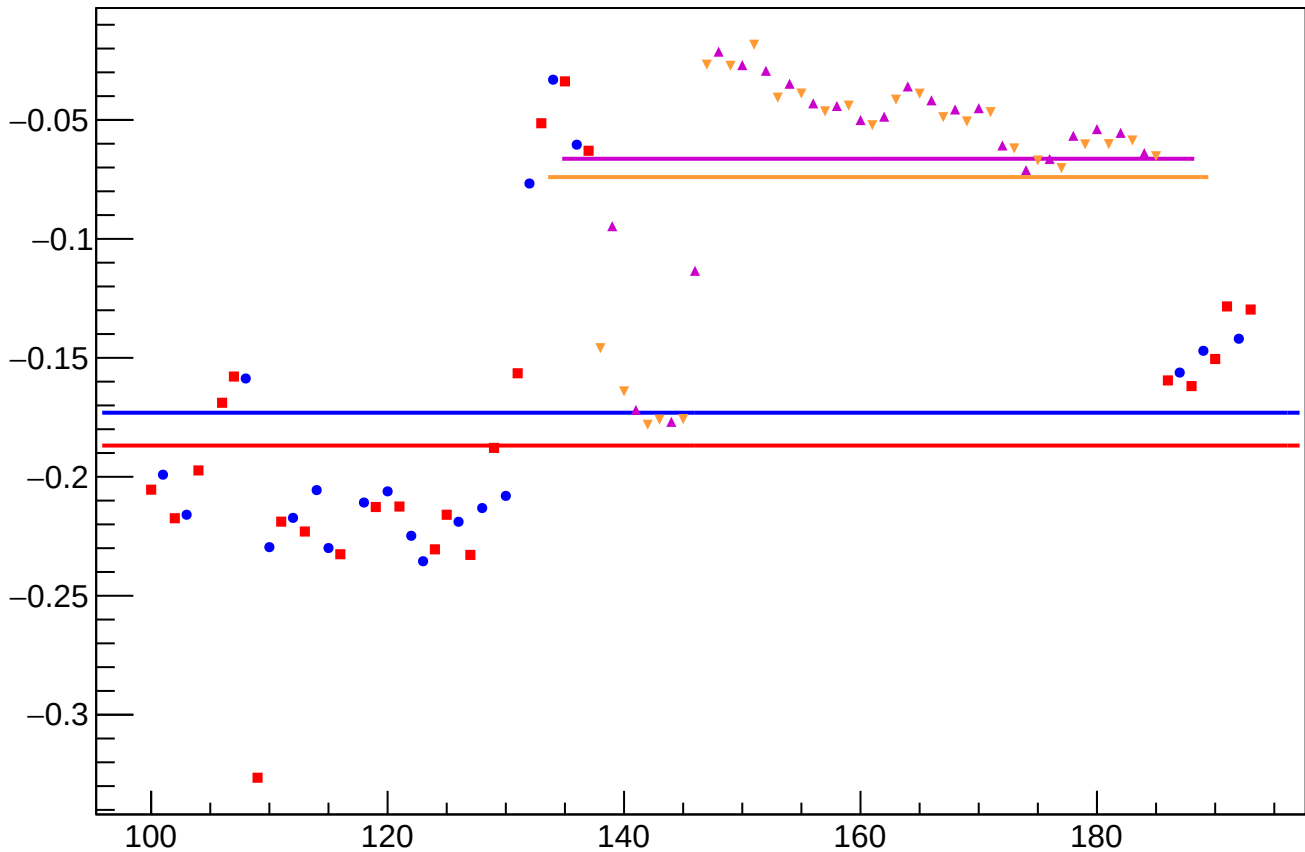
Right: 0.015+/-0.000 χ^2/NDF : 3702898.6/43

In: 0.013+/-0.000 χ^2/NDF : 2346118.6/42

Out: 0.013+/-0.000 χ^2/NDF : 3208762.5/48

All: 0.013+/-0.000 χ^2/NDF : 5557191.5/91

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.173+/-0.000 χ^2/NDF : 67108852.1/19

Left Out: -0.074+/-0.000 χ^2/NDF :107676601.9/24

Right Out: -0.187+/-0.000 χ^2/NDF : 83191800.4/23

Left In: -0.066+/-0.000 χ^2/NDF :76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

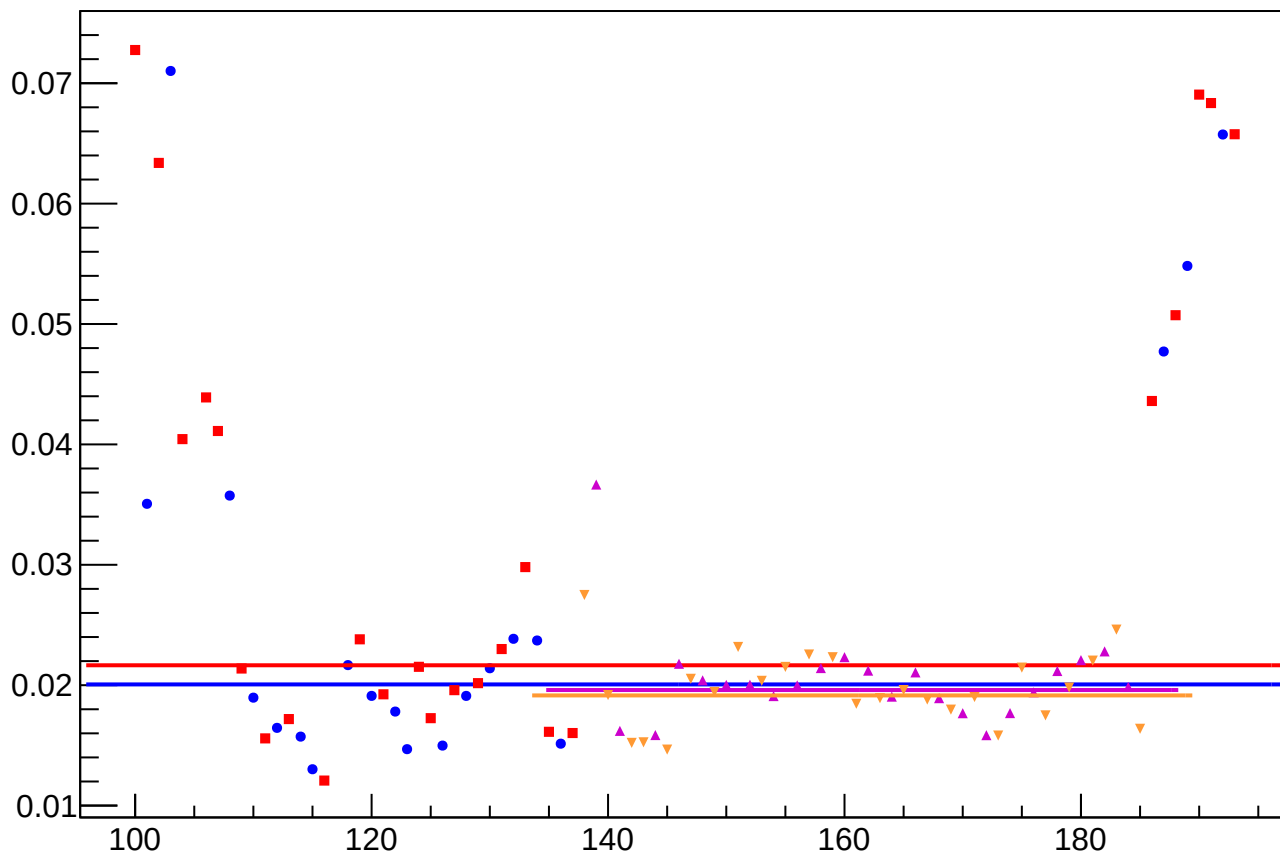
Right: -0.180+/-0.000 χ^2/NDF : 151663307.9/43

In: -0.096+/-0.000 χ^2/NDF :261760909.9/42

Out: -0.103+/-0.000 χ^2/NDF :325306563.6/48

All: -0.100+/-0.000 χ^2/NDF : 588300169.6/91

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2579432.1/19

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.022+/-0.000 χ^2/NDF : 3488935.3/23

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

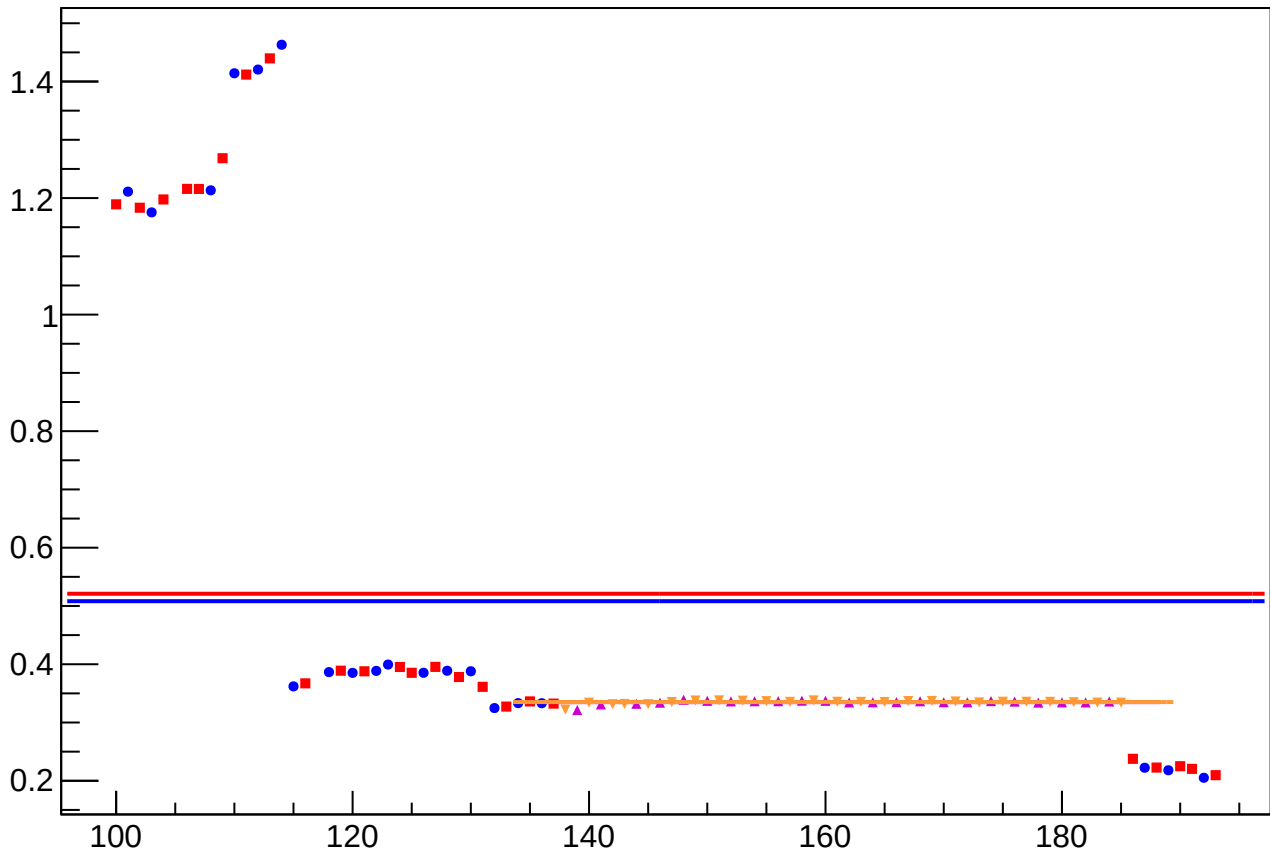
Right: 0.021+/-0.000 χ^2/NDF : 6104576.6/43

In: 0.020+/-0.000 χ^2/NDF : 3207098.3/42

Out: 0.020+/-0.000 χ^2/NDF : 4262622.3/48

All: 0.020+/-0.000 χ^2/NDF : 7469945.8/91

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.508+/-0.000 χ^2/NDF : 5805810427.7/19

Left Out: 0.335+/-0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.521+/-0.000 χ^2/NDF : 6740267747.0/23

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

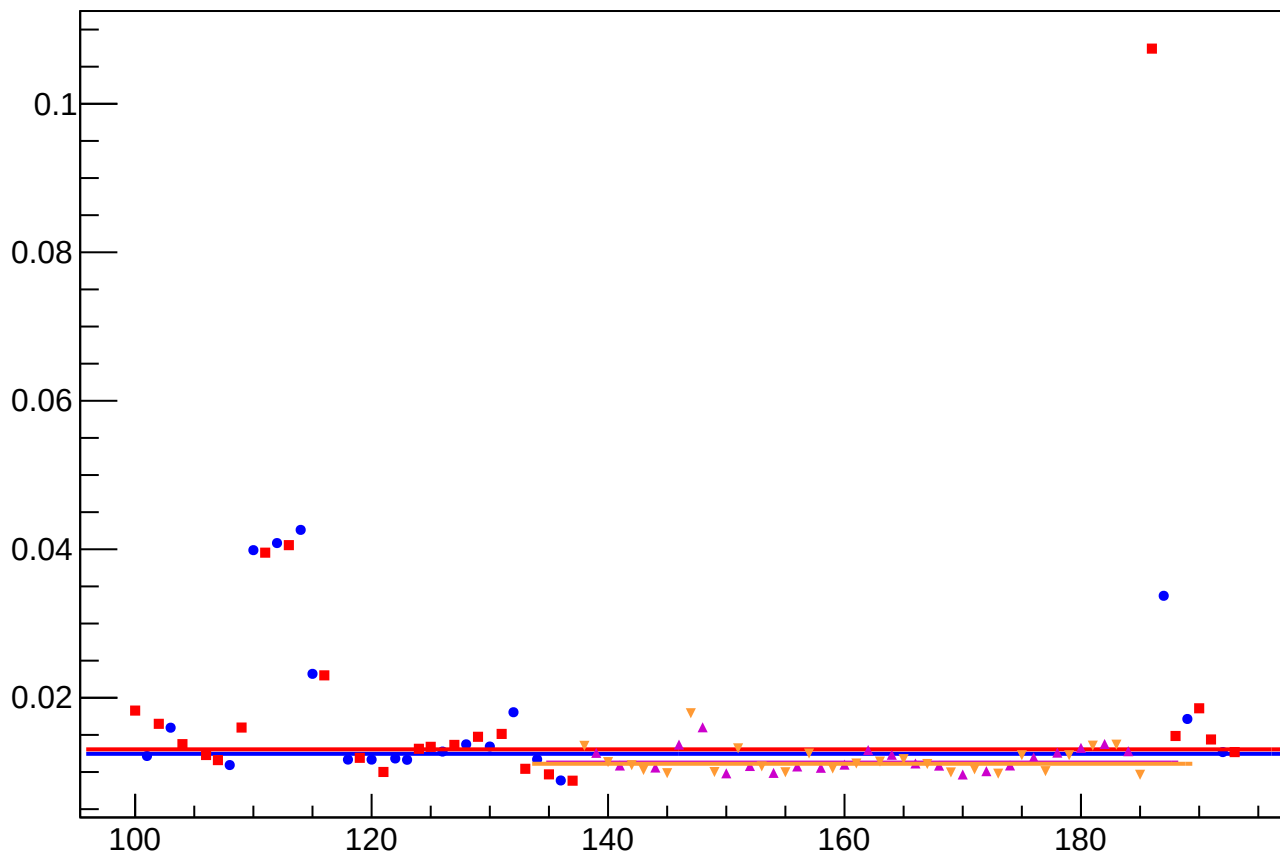
Right: 0.515+/-0.000 χ^2/NDF : 12549846346.1/43

In: 0.380+/-0.000 χ^2/NDF : 6815207842.2/42

Out: 0.381+/-0.000 χ^2/NDF : 7959887942.5/48

All: 0.381+/-0.000 χ^2/NDF : 14775320997.3/95

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1491966.3/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:607532.0/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1919494.2/23

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502455.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1113465.5/47

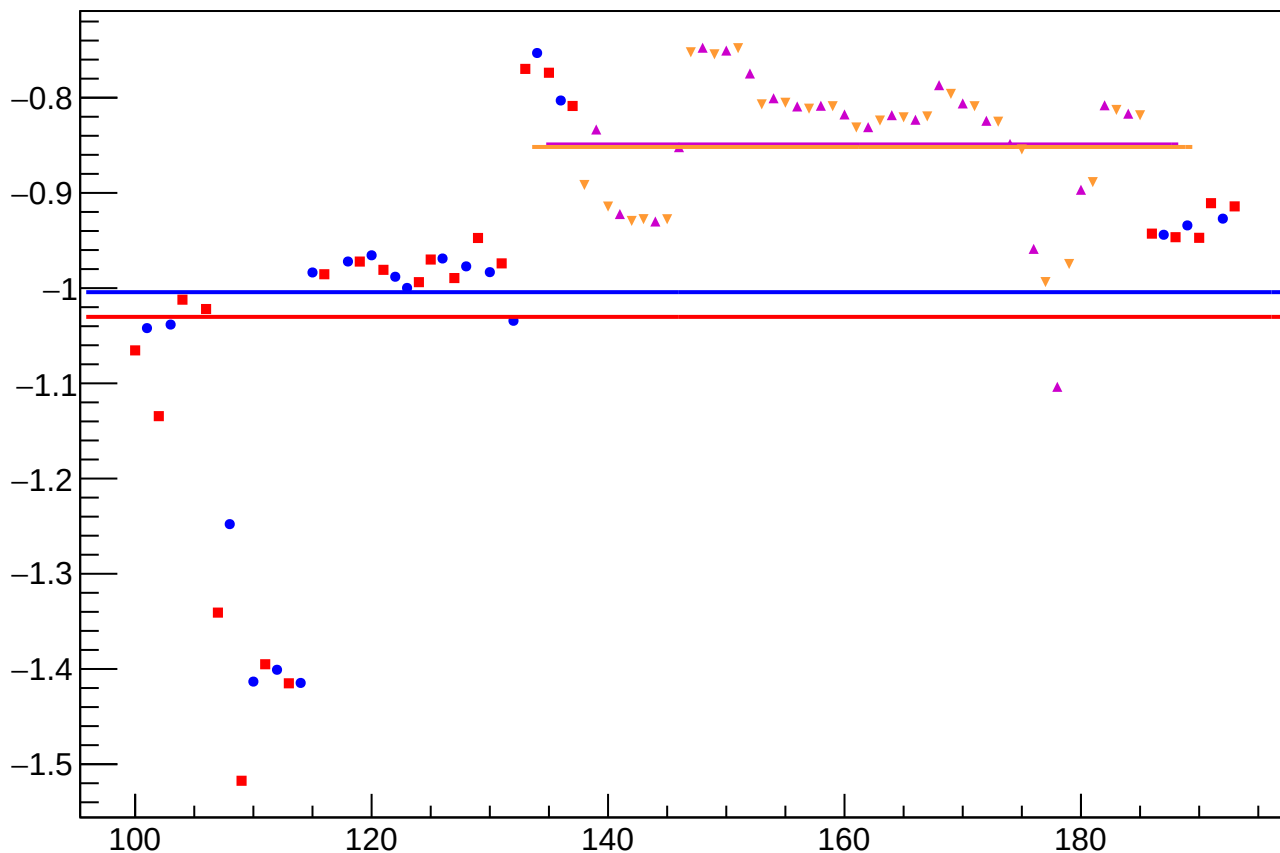
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3428156.6/43

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2088176.7/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2793191.9/48

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4881429.1/91

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 $\pm$ 0.000 χ^2 /NDF: 396099140.6/19

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189103962.4/24

Right Out: -1.030 $\pm$ 0.000 χ^2 /NDF: 544074669.5/23

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445636655.2/47

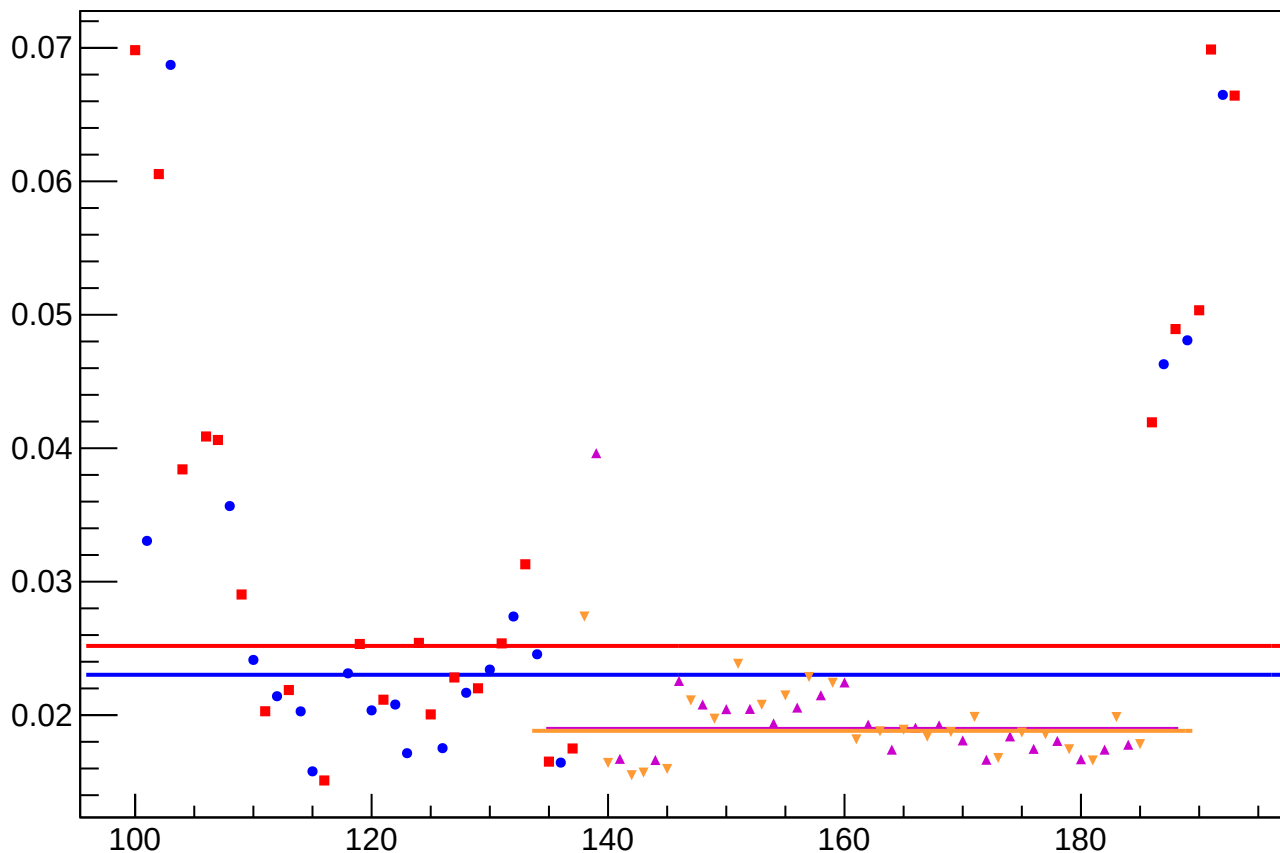
Right: -1.017 $\pm$ 0.000 χ^2 /NDF: 943950829.5/43

In: -0.884 $\pm$ 0.000 χ^2 /NDF:863849910.1/42

Out: -0.889 $\pm$ 0.000 χ^2 /NDF:1011972635.5/48

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1876435106.1/9

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2113527.2/19

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.025+/-0.000 χ^2/NDF : 2686640.3/23

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

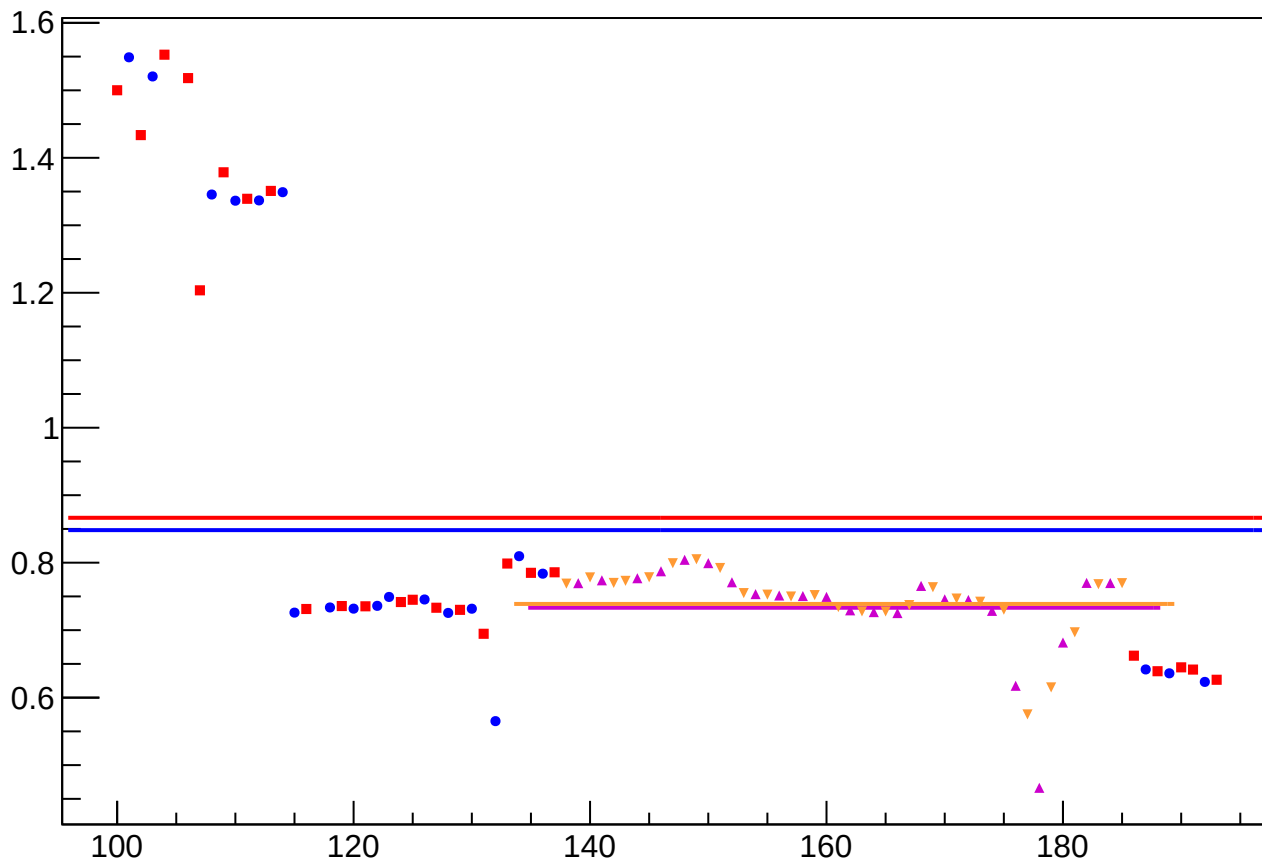
Right: 0.024+/-0.000 χ^2/NDF : 4852599.9/43

In: 0.020+/-0.000 χ^2/NDF : 3017633.6/42

Out: 0.020+/-0.000 χ^2/NDF : 3886085.8/48

All: 0.020+/-0.000 χ^2/NDF : 6907451.2/91

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.848+/-0.000 χ^2/NDF : 2740889334.7/19

Left Out: 0.739+/-0.000 χ^2/NDF : 333013236.5/24

Right Out: 0.867+/-0.000 χ^2/NDF : 2930302497.2/23

Left In: 0.733+/-0.000 χ^2/NDF : 569611347.7/22

Left: 0.736+/-0.000 χ^2/NDF : 904456968.5/47

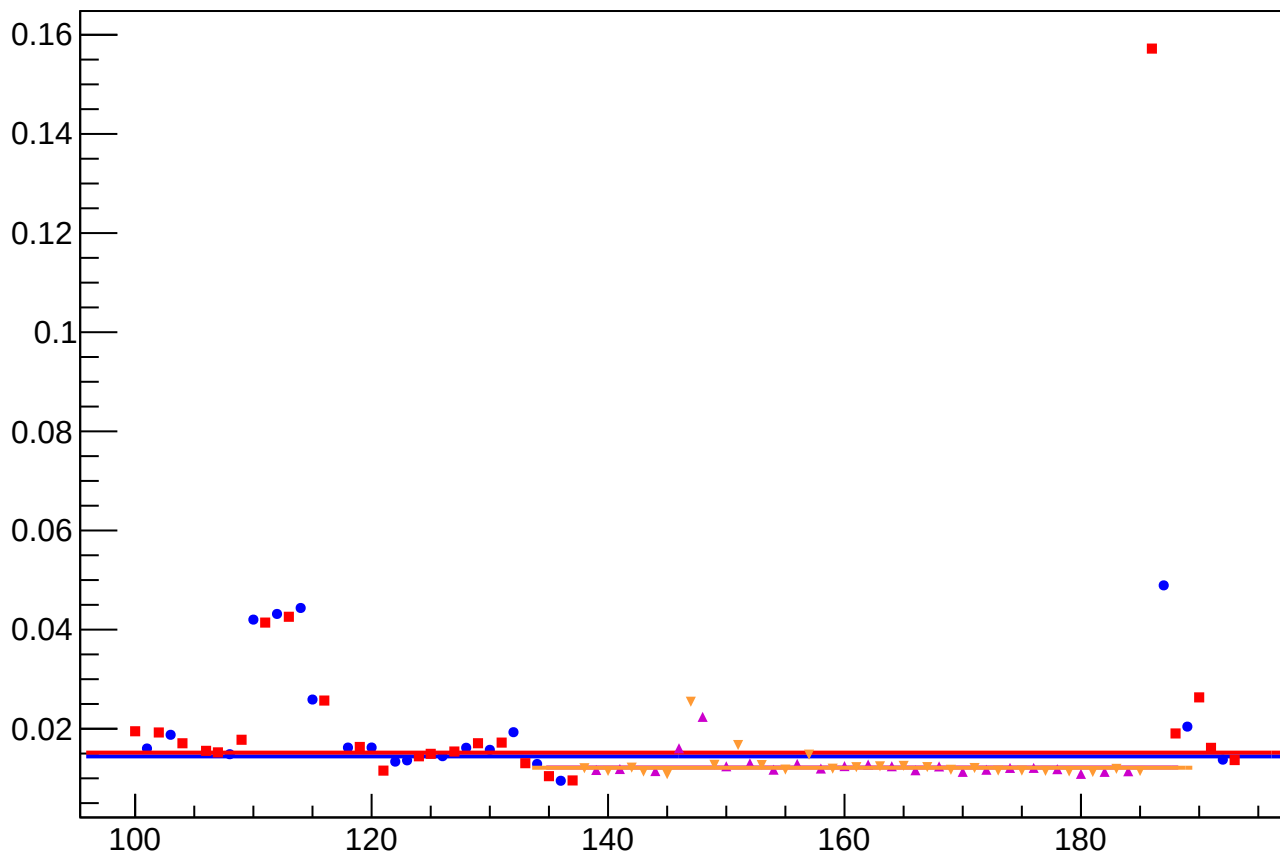
Right: 0.858+/-0.000 χ^2/NDF : 5676880176.1/43

In: 0.760+/-0.000 χ^2/NDF : 3651215333.8/42

Out: 0.768+/-0.000 χ^2/NDF : 3700942806.9/48

All: 0.764+/-0.000 χ^2/NDF : 7356866991.7/91

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1627393.6/19

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2053347.5/23

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481830.1/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120125.6/47

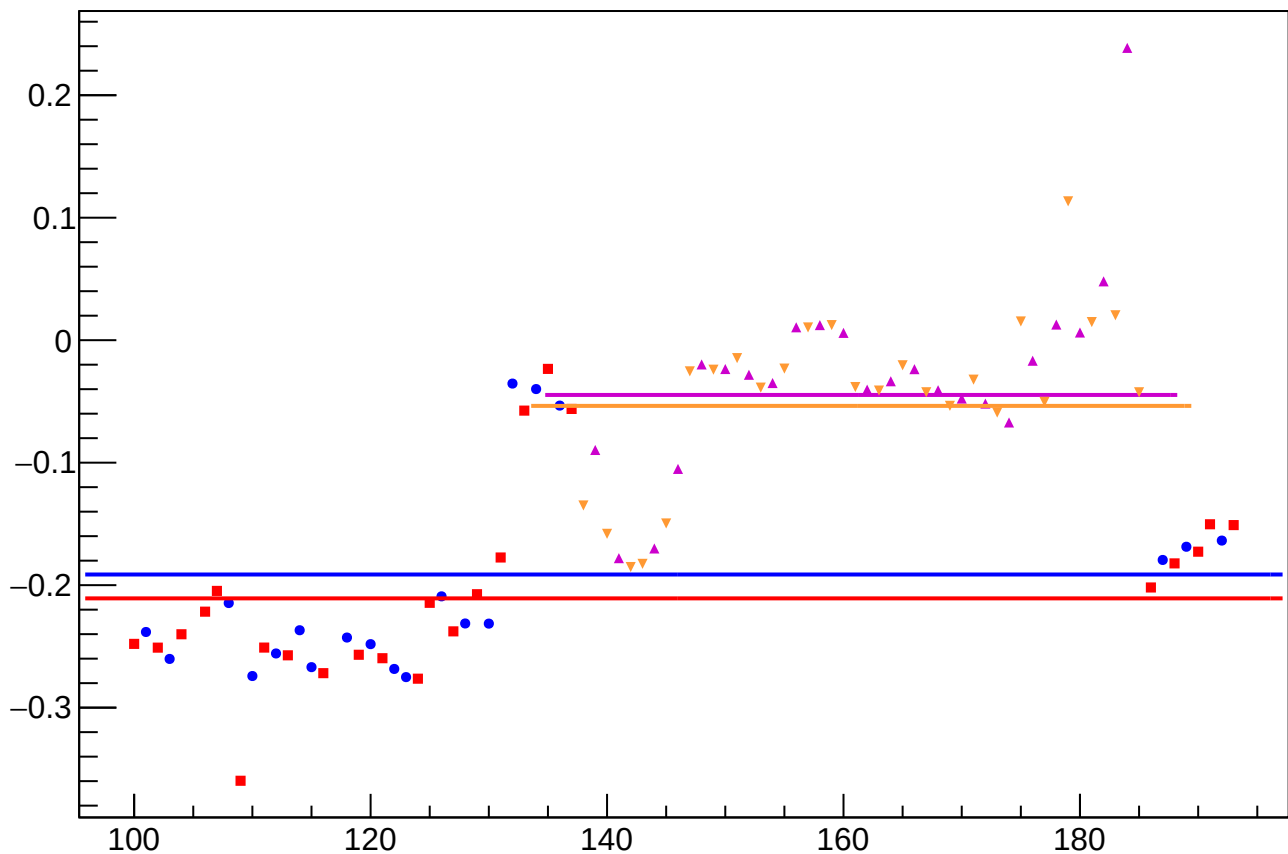
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3700508.5/43

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2366586.0/42

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3190552.9/48

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5559321.6/91

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191 ± 0.000 χ^2/NDF : 106448170.8/19

Left Out: -0.054 ± 0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.211 ± 0.000 χ^2/NDF : 111719940.1/23

Left In: -0.045 ± 0.000 χ^2/NDF : 127192425.2/22

Left: -0.049 ± 0.000 χ^2/NDF : 296566503.6/47

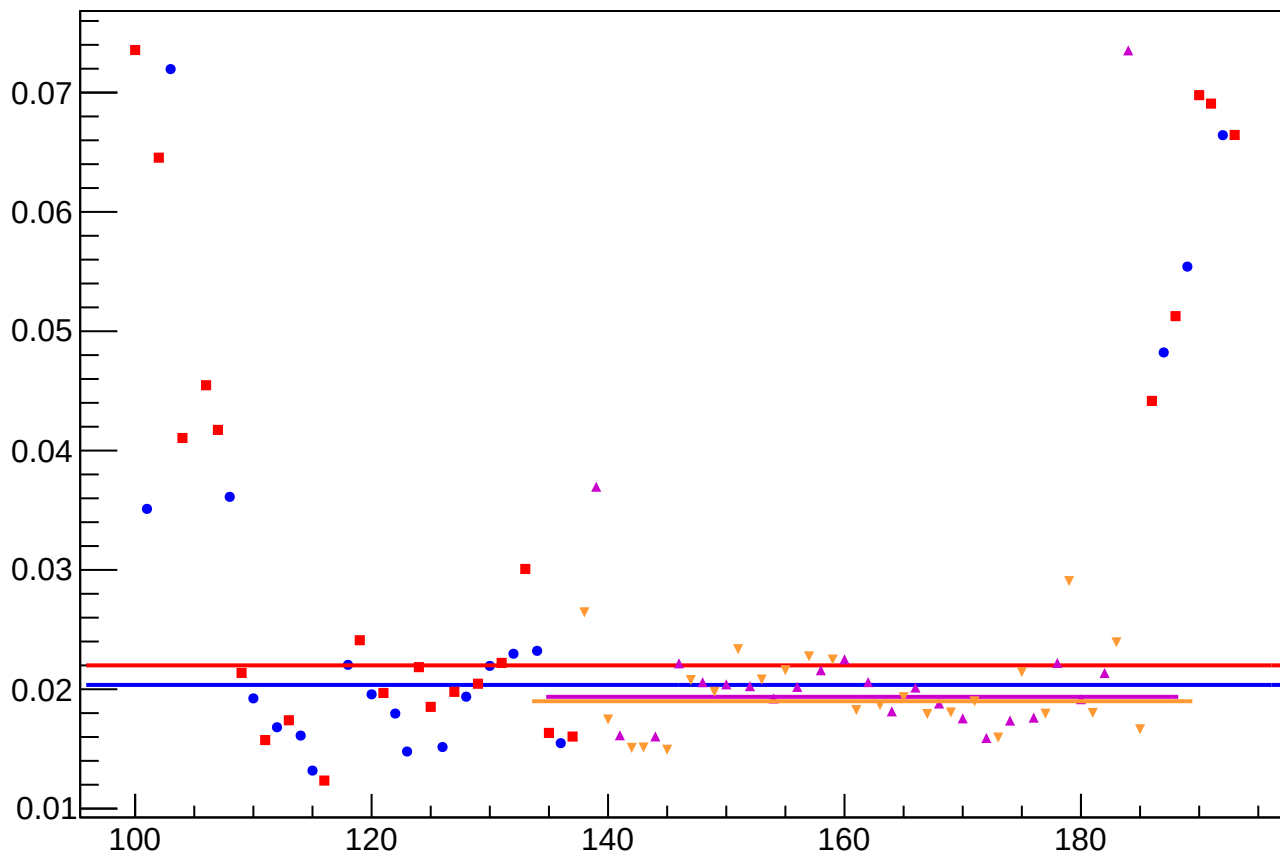
Right: -0.201 ± 0.000 χ^2/NDF : 220808069.9/43

In: -0.085 ± 0.000 χ^2/NDF : 452213463.3/42

Out: -0.094 ± 0.000 χ^2/NDF : 533112184.8/48

All: -0.089 ± 0.000 χ^2/NDF : 987190647.6/91

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2545014.7/19

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.022+/-0.000 χ^2/NDF : 3468604.9/23

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

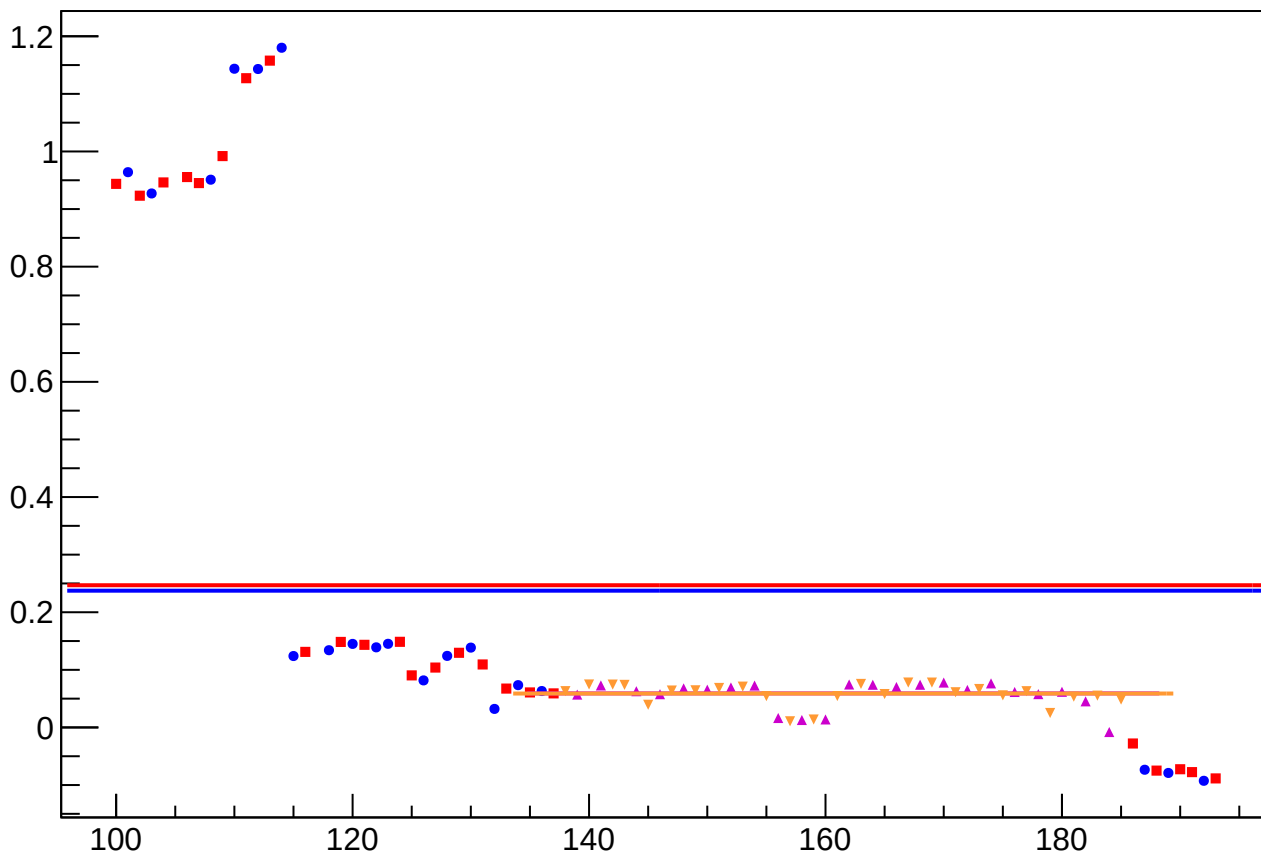
Right: 0.021+/-0.000 χ^2/NDF : 6050973.7/43

In: 0.020+/-0.000 χ^2/NDF : 3423468.1/42

Out: 0.020+/-0.000 χ^2/NDF : 4354343.3/48

All: 0.020+/-0.000 χ^2/NDF : 7778556.3/91

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.000 χ^2 /NDF: 6104295143.1/19

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.247 $\pm$ 0.000 χ^2 /NDF: 6919298919.8/23

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105343775.2/47

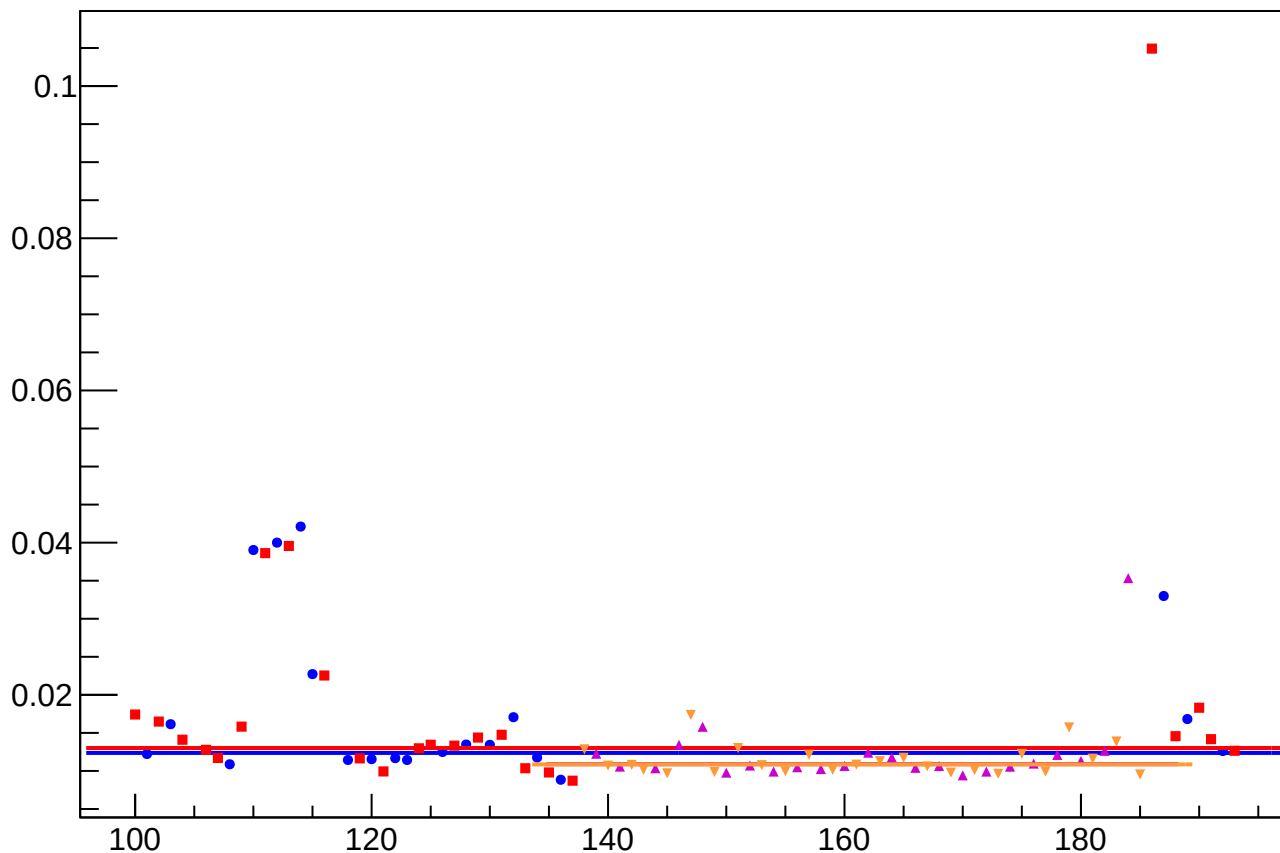
Right: 0.242 $\pm$ 0.000 χ^2 /NDF: 13025679464.8/43

In: 0.104 $\pm$ 0.000 χ^2 /NDF: 7256818130.5/42

Out: 0.105 $\pm$ 0.000 χ^2 /NDF: 8225267889.5/48

All: 0.105 $\pm$ 0.000 χ^2 /NDF: 15482206818.4/95

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1458189.5/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1872296.0/23

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

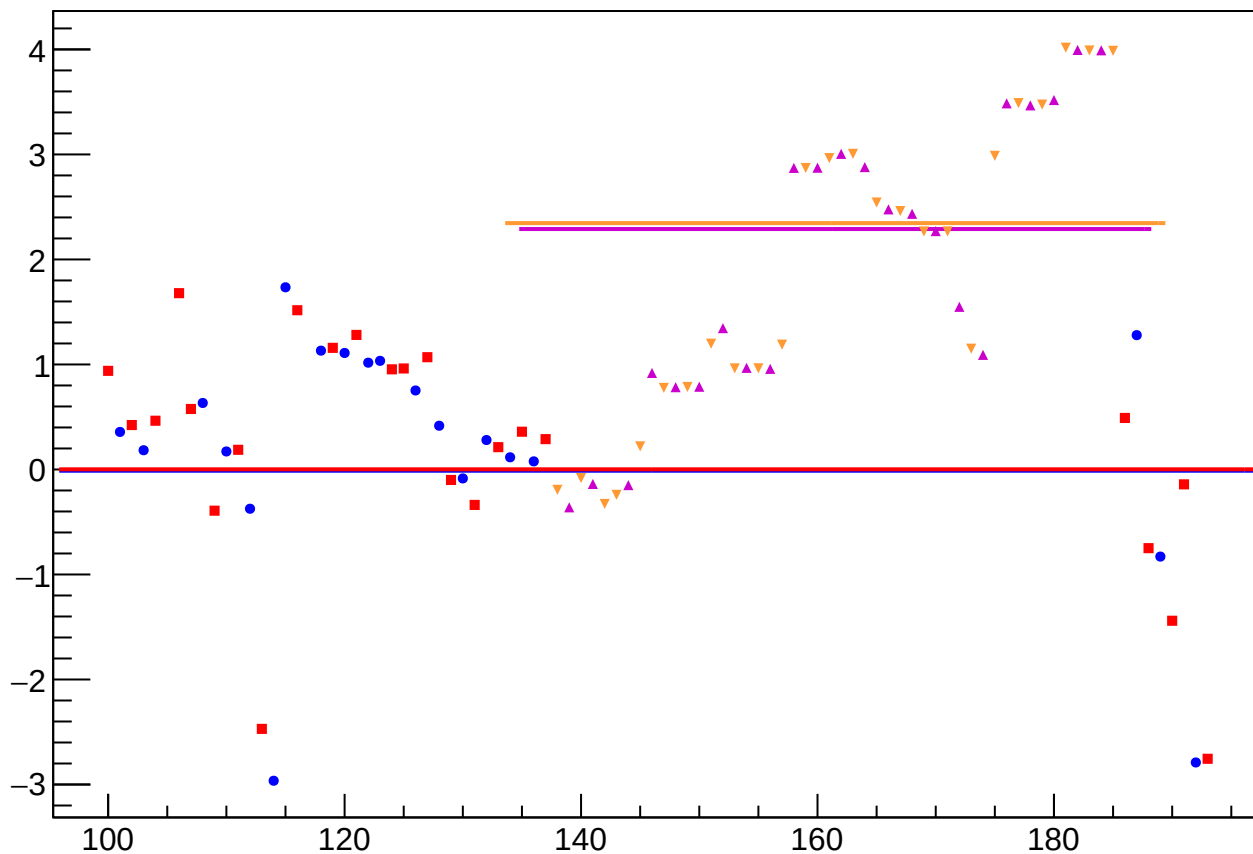
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3349958.4/43

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2138330.7/42

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2807336.3/48

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4948742.6/91

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.012 ± 0.000 $\chi^2/\text{NDF}: 2539832668.4/19$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: 0.001 ± 0.000 $\chi^2/\text{NDF}: 3109298598.2/23$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

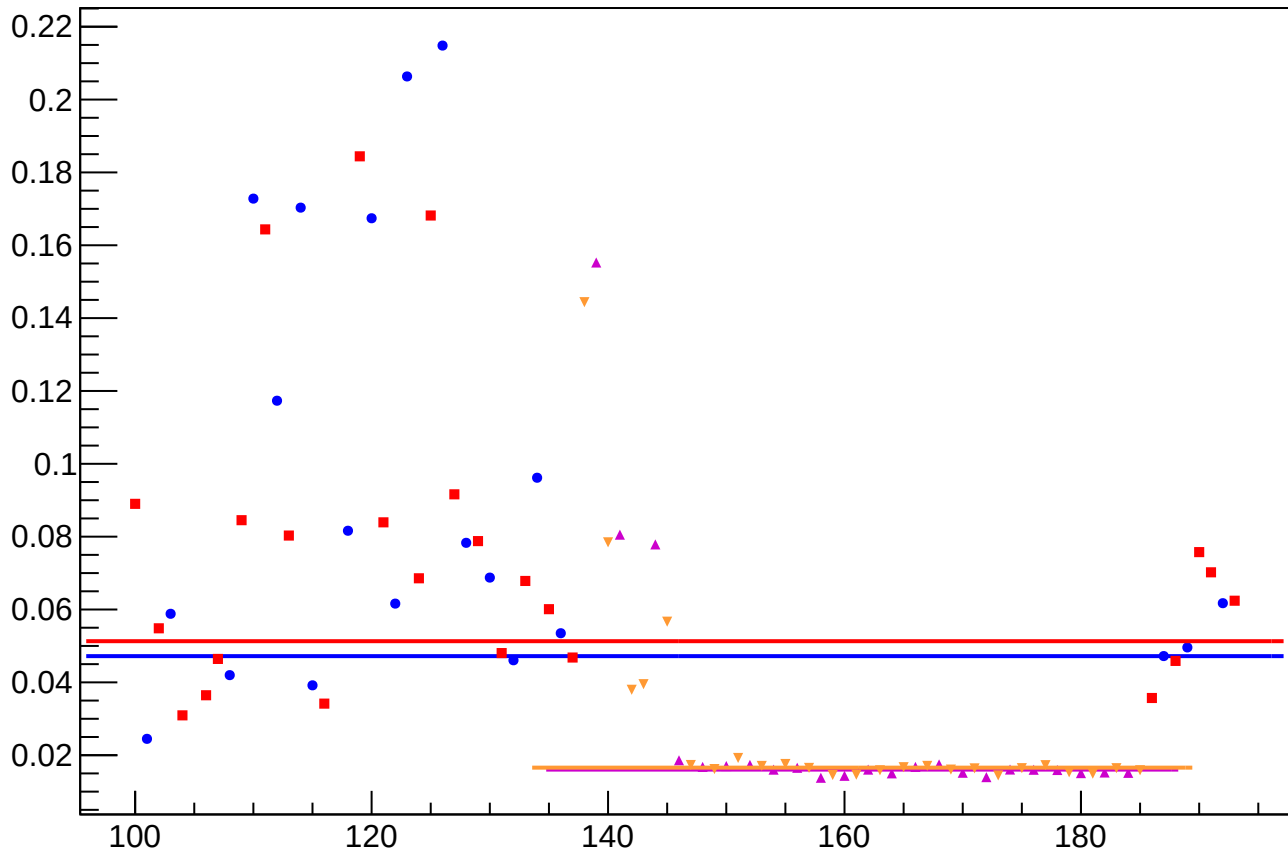
Right: -0.005 ± 0.000 $\chi^2/\text{NDF}: 5649337114.1/43$

In: 2.195 ± 0.000 $\chi^2/\text{NDF}: 74645457190.8/42$

Out: 2.240 ± 0.000 $\chi^2/\text{NDF}: 79289444573.7/48$

All: 2.217 ± 0.000 $\chi^2/\text{NDF}: 153987435743.9$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.047+/-0.000 χ^2/NDF : 2947330.3/19

Left Out: 0.017+/-0.000 χ^2/NDF : 2621162.1/24

Right Out: 0.051+/-0.000 χ^2/NDF : 2477628.2/23

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

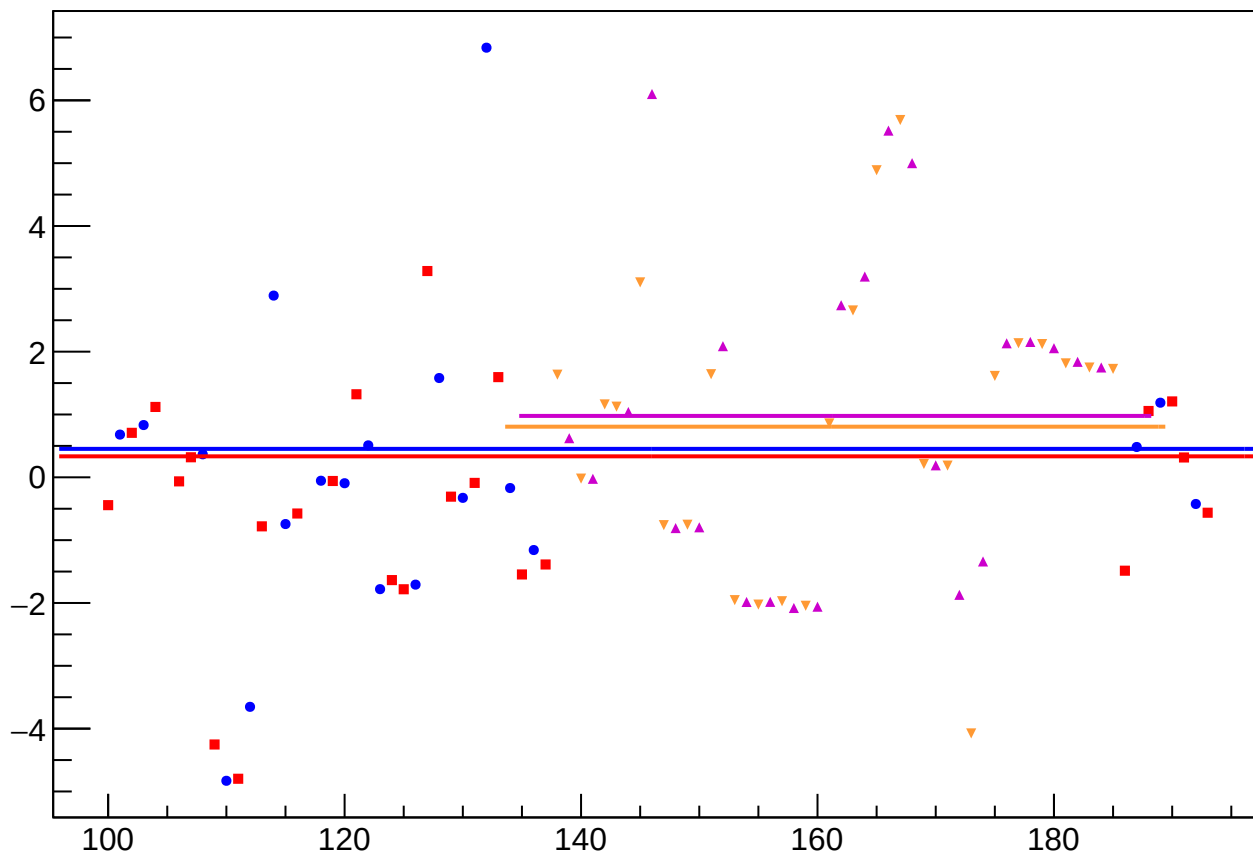
Right: 0.049+/-0.000 χ^2/NDF : 5463868.0/43

In: 0.017+/-0.000 χ^2/NDF : 9456869.2/42

Out: 0.018+/-0.000 χ^2/NDF : 10667632.3/48

All: 0.018+/-0.000 χ^2/NDF : 20162276.3/91

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.453+/-0.000 χ^2/NDF : 13751127068.2/19

Left Out: 0.806+/-0.000 χ^2/NDF : 507578952196.2/24

Right Out: 0.334+/-0.000 χ^2/NDF : 7594242971.2/23

Left In: 0.977+/-0.000 χ^2/NDF : 568209676597.4/22

Left: 0.892+/-0.000 χ^2/NDF : 1077036497291.8/47

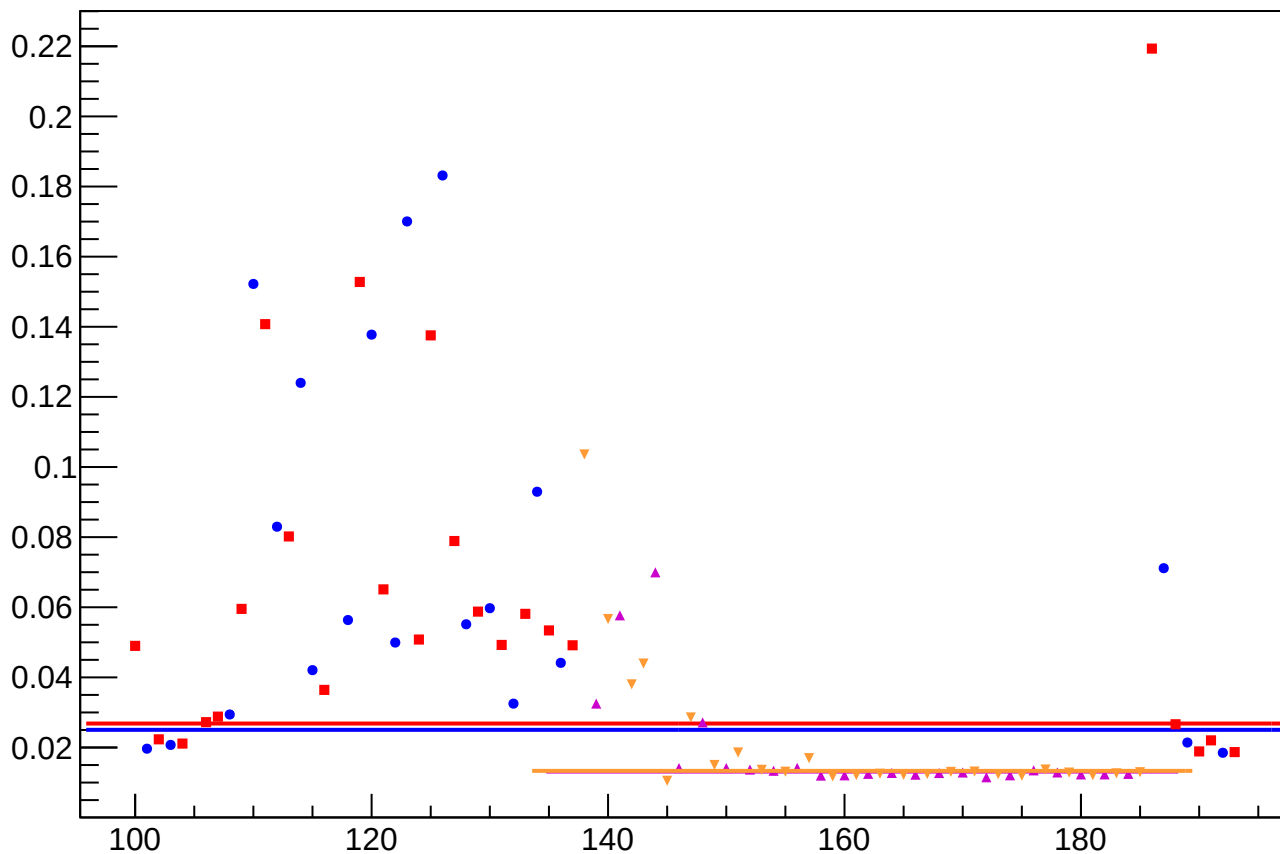
Right: 0.392+/-0.000 χ^2/NDF : 21397355259.8/43

In: 0.937+/-0.000 χ^2/NDF : 583774529162.1/42

Out: 0.767+/-0.000 χ^2/NDF : 516718737330.9/48

All: 0.852+/-0.000 χ^2/NDF : 1101816661196.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 3525564.2/19

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.027+/-0.000 χ^2/NDF : 4254578.0/23

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

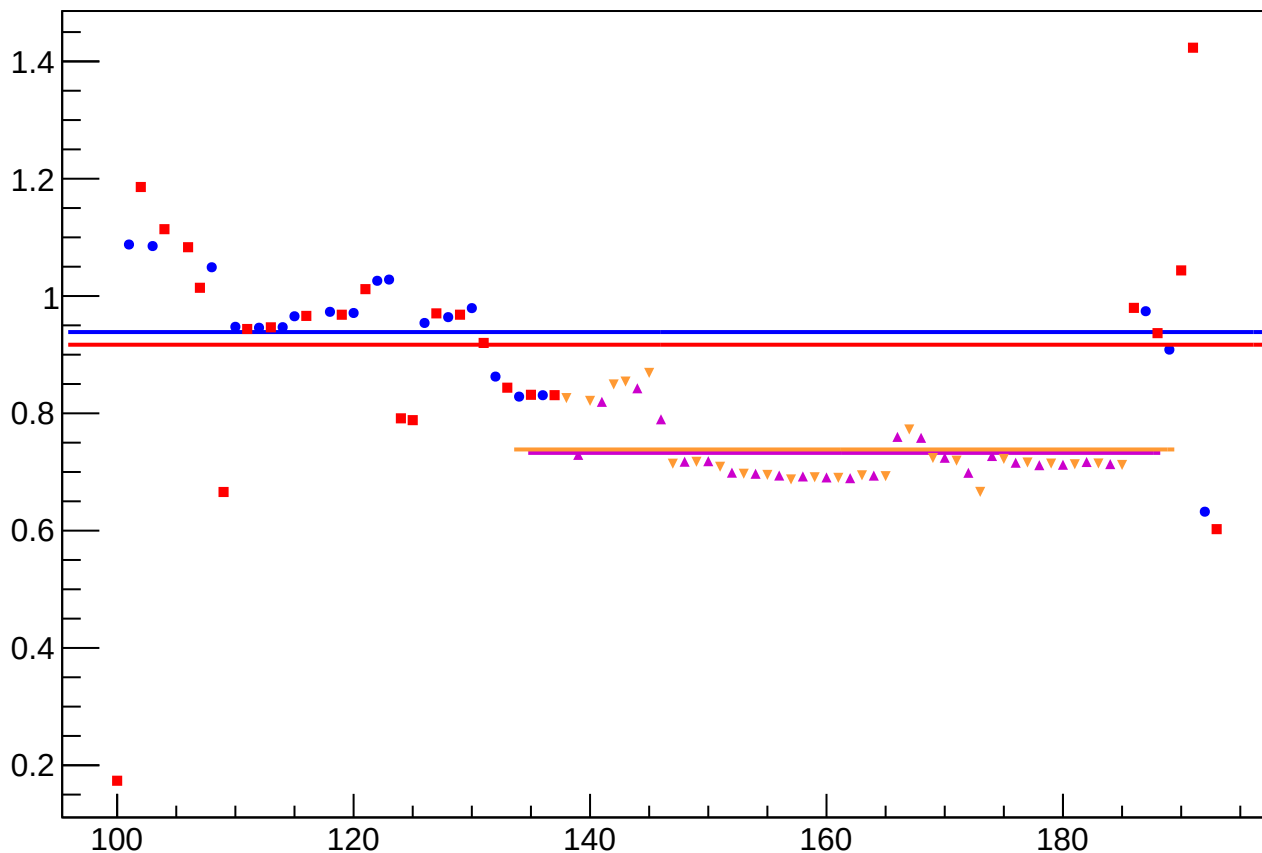
Right: 0.026+/-0.000 χ^2/NDF : 7803848.5/43

In: 0.014+/-0.000 χ^2/NDF : 7340610.4/42

Out: 0.014+/-0.000 χ^2/NDF : 9611791.4/48

All: 0.014+/-0.000 χ^2/NDF : 16965902.7/91

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.939 $\pm$ 0.000 χ^2/NDF : 299116426.0/19

Left Out: 0.738 $\pm$ 0.000 χ^2/NDF :310195180.4/24

Right Out: 0.917 $\pm$ 0.000 χ^2/NDF : 553424151.5/23

Left In: 0.733 $\pm$ 0.000 χ^2/NDF :170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 481708989.2/47

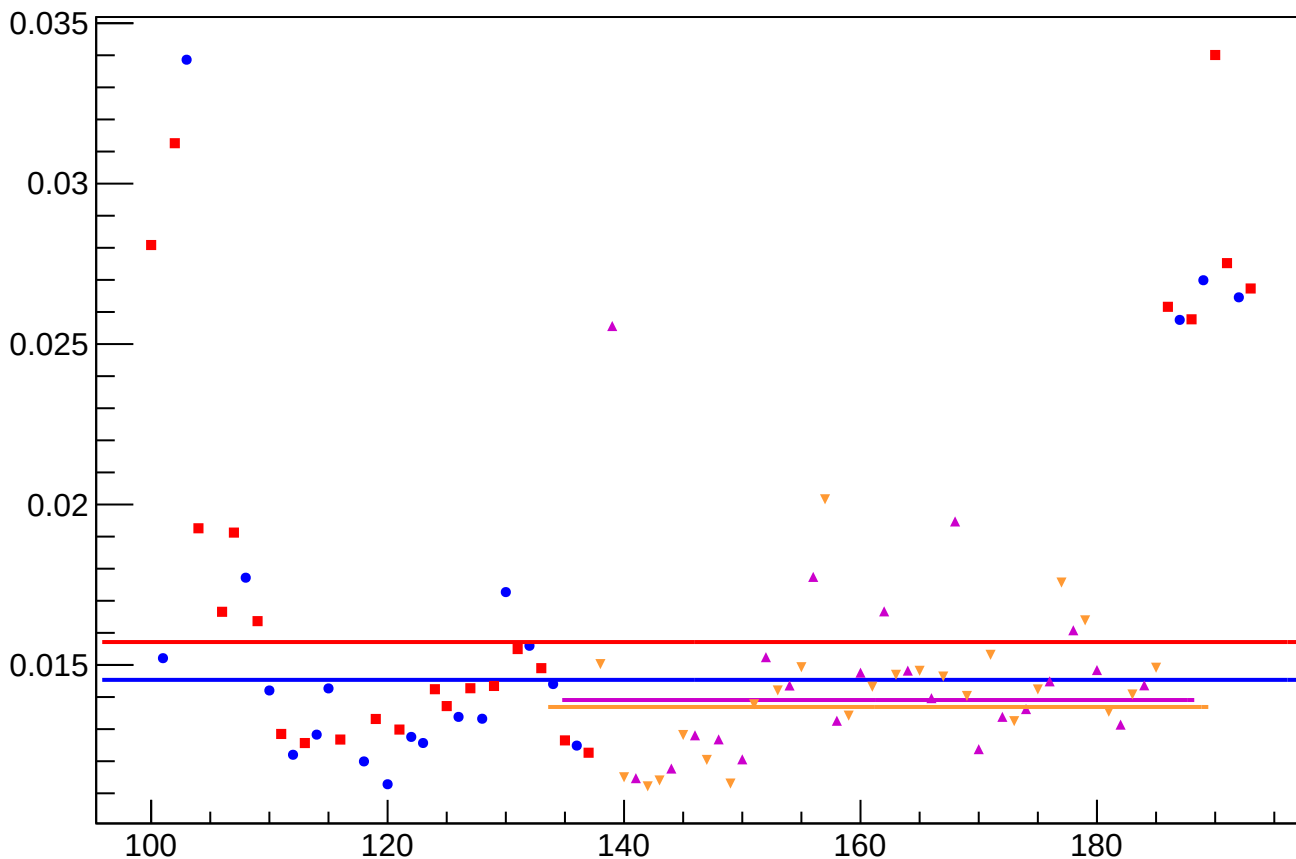
Right: 0.928 $\pm$ 0.000 χ^2/NDF : 860178680.8/43

In: 0.793 $\pm$ 0.000 χ^2/NDF :1458662310.1/42

Out: 0.787 $\pm$ 0.000 χ^2/NDF :1618816989.7/48

All: 0.790 $\pm$ 0.000 χ^2/NDF : 3079124936.1/91

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1196865.0/19

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1495362.6/23

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

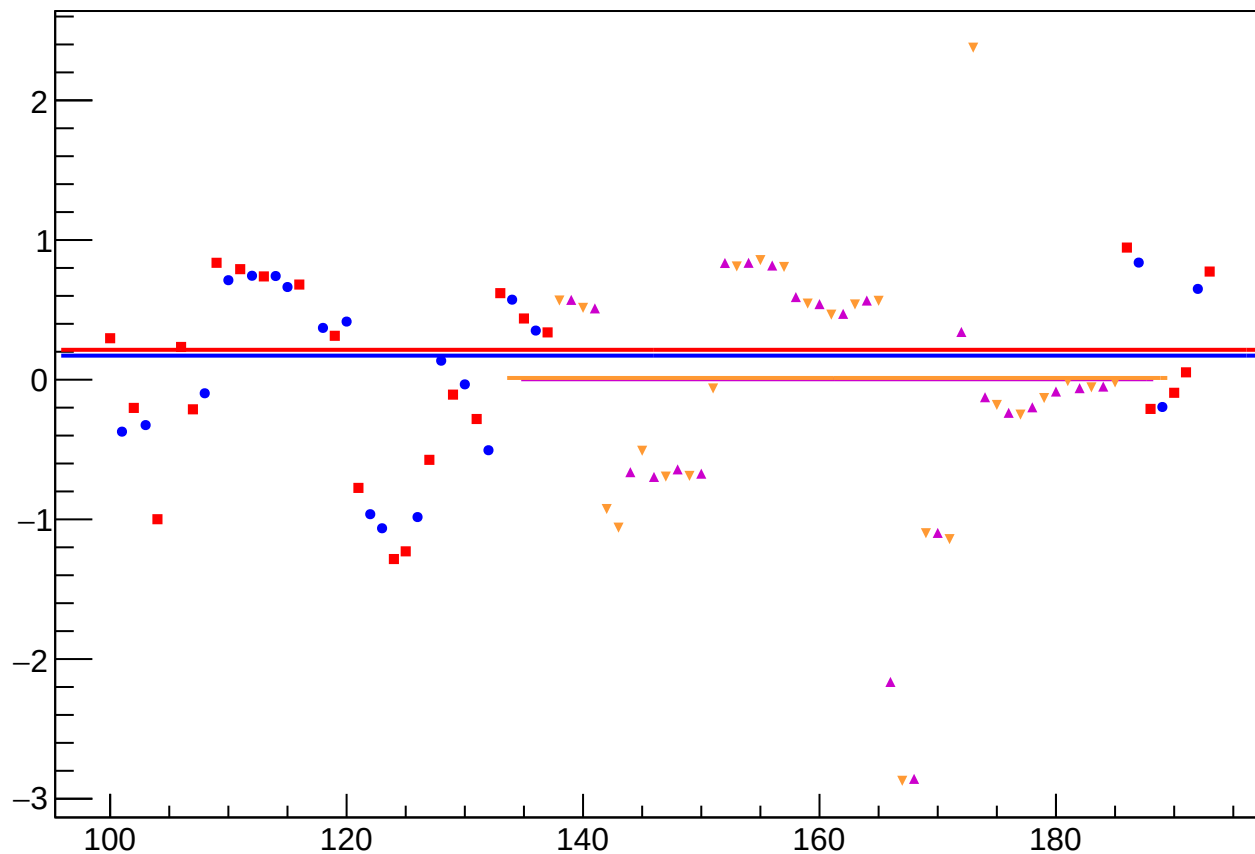
Right: 0.015+/-0.000 χ^2/NDF : 2737778.2/43

In: 0.014+/-0.000 χ^2/NDF : 1983406.5/42

Out: 0.014+/-0.000 χ^2/NDF : 2217805.7/48

All: 0.014+/-0.000 χ^2/NDF : 4203983.1/91

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.172+/-0.000

χ^2/NDF : 9250542995.4/19

Left: 0.008+/-0.000

χ^2/NDF : 175214894006.3/47

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

Right: 0.195+/-0.000

χ^2/NDF : 24983458552.9/43

Right Out: 0.214+/-0.000

χ^2/NDF : 15699704888.6/23

In: 0.046+/-0.000

χ^2/NDF : 88831518830.2/42

Out: 0.068+/-0.000

χ^2/NDF : 113306650538.3/48

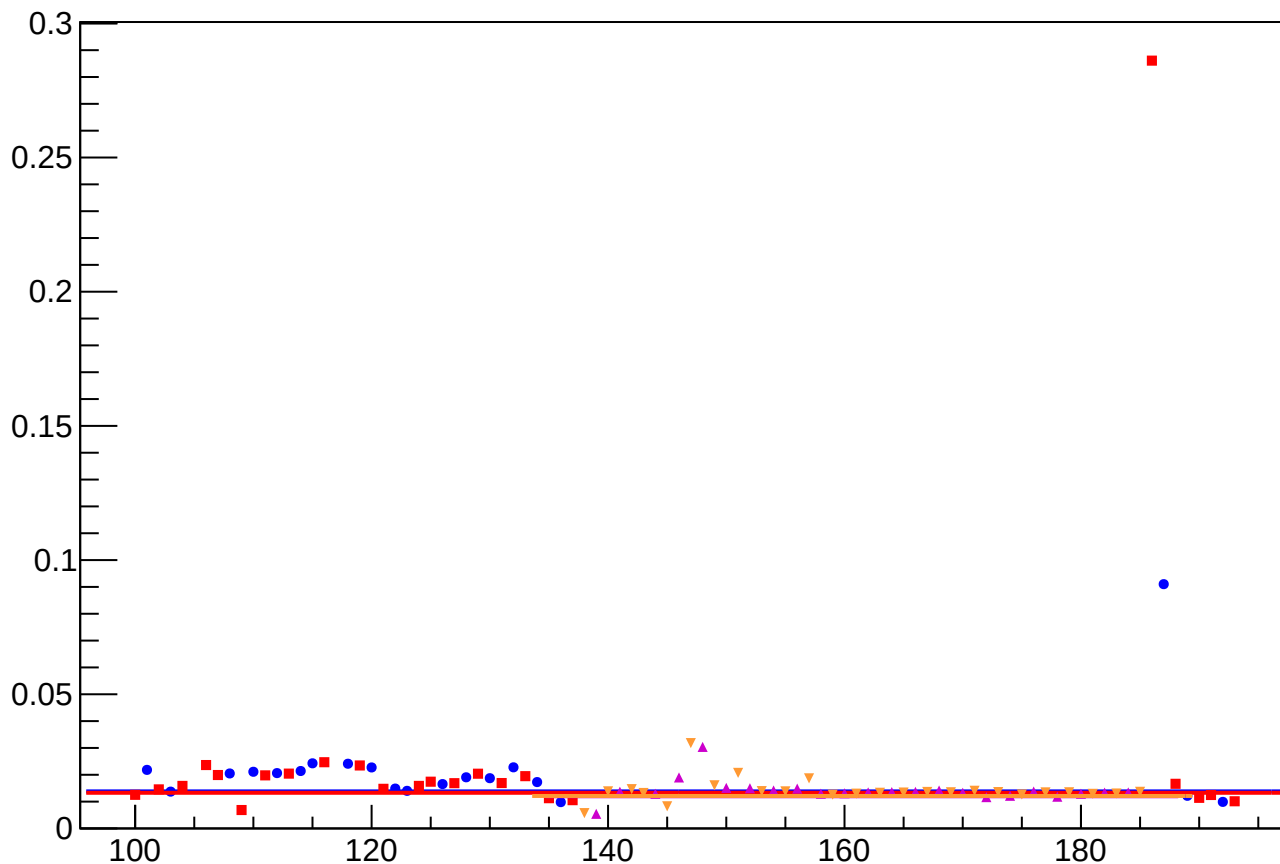
Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.057+/-0.000

χ^2/NDF : 202173665683.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1778830.9/19

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3105238.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2424583.6/23

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3003502.9/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6110012.2/47

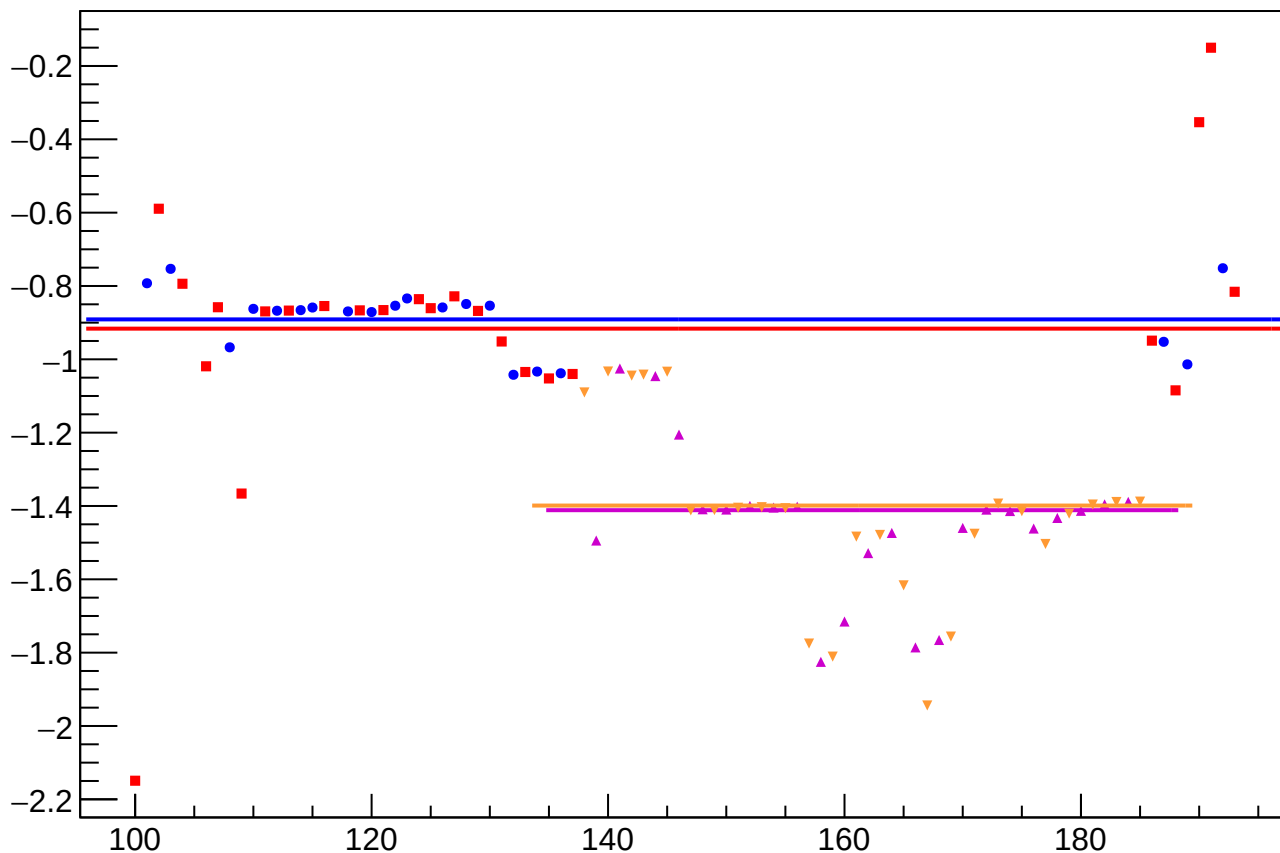
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 4213638.2/43

In: 0.012 $\pm$ 0.000 χ^2 /NDF:4956176.3/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5614832.4/48

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10571075.1/91

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.891+/-0.000 χ^2/NDF : 45177284.3/19

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.916+/-0.000 χ^2/NDF : 187382370.4/23

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.405+/-0.000 χ^2/NDF : 1251791467.1/47

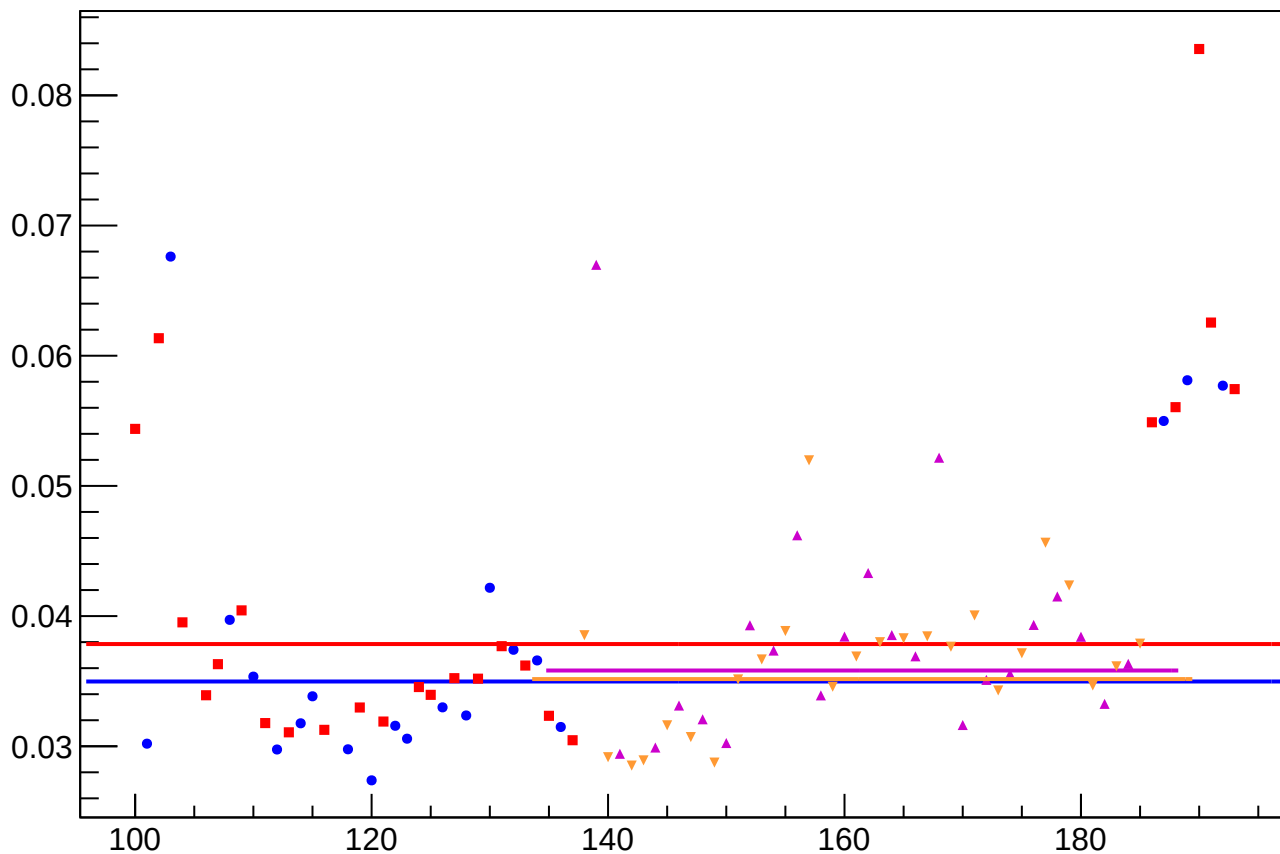
Right: -0.904+/-0.000 χ^2/NDF : 234396708.5/43

In: -1.241+/-0.000 χ^2/NDF : 1612792865.5/42

Out: -1.251+/-0.000 χ^2/NDF : 1852227188.9/48

All: -1.246+/-0.000 χ^2/NDF : 3465851623.8/9

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.035+/-0.000 χ^2/NDF : 903225.0/19

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.038+/-0.000 χ^2/NDF : 1045271.5/23

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

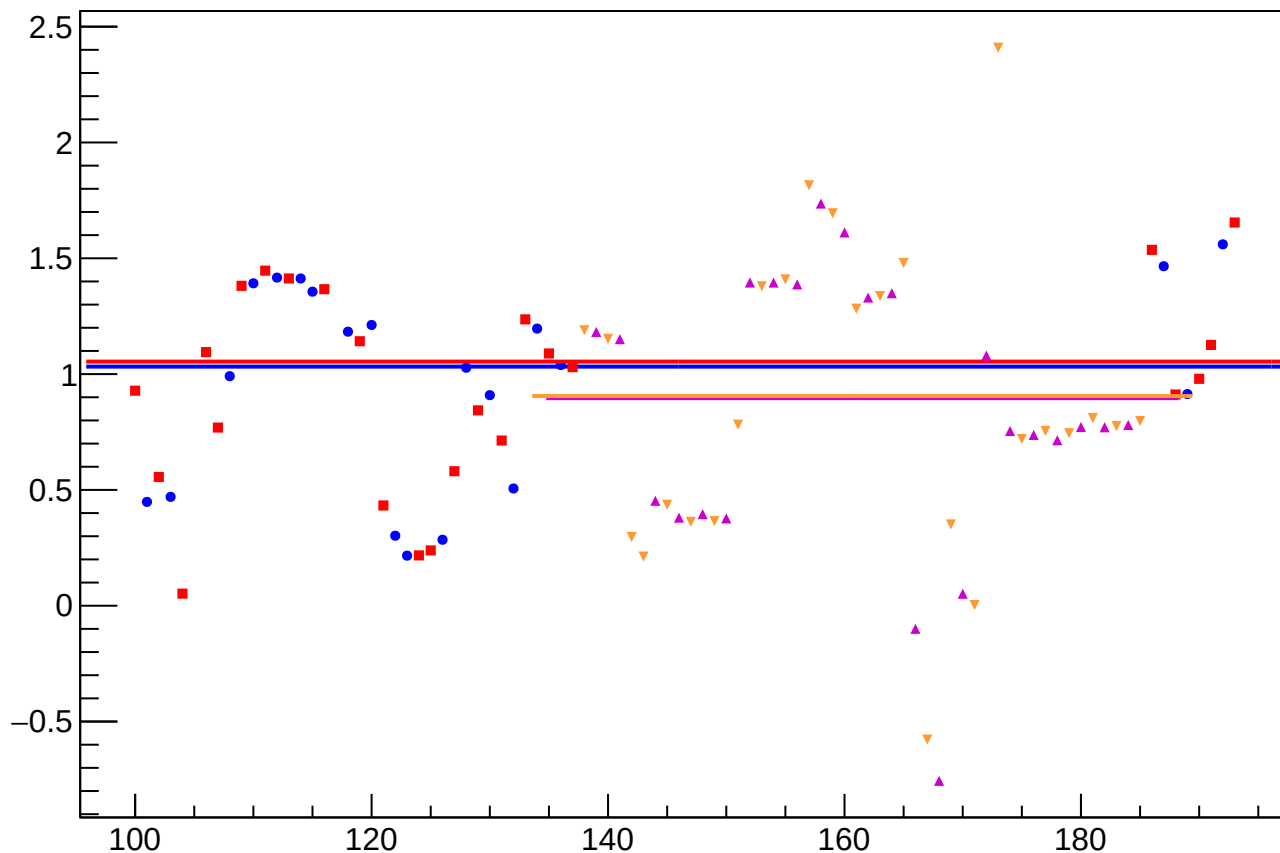
Right: 0.036+/-0.000 χ^2/NDF : 1996210.2/43

In: 0.036+/-0.000 χ^2/NDF : 1772928.0/42

Out: 0.036+/-0.000 χ^2/NDF : 1698112.1/48

All: 0.036+/-0.000 χ^2/NDF : 3474622.9/91

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.032 $\pm$ 0.000

χ^2 /NDF: 12423900897.8/19

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 1.044 $\pm$ 0.000 χ^2 /NDF: 28032403630.8/43

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.932 $\pm$ 0.000 χ^2 /NDF: 80024001794.2/42

Right Out: 1.054 $\pm$ 0.000

χ^2 /NDF: 15590401183.3/23

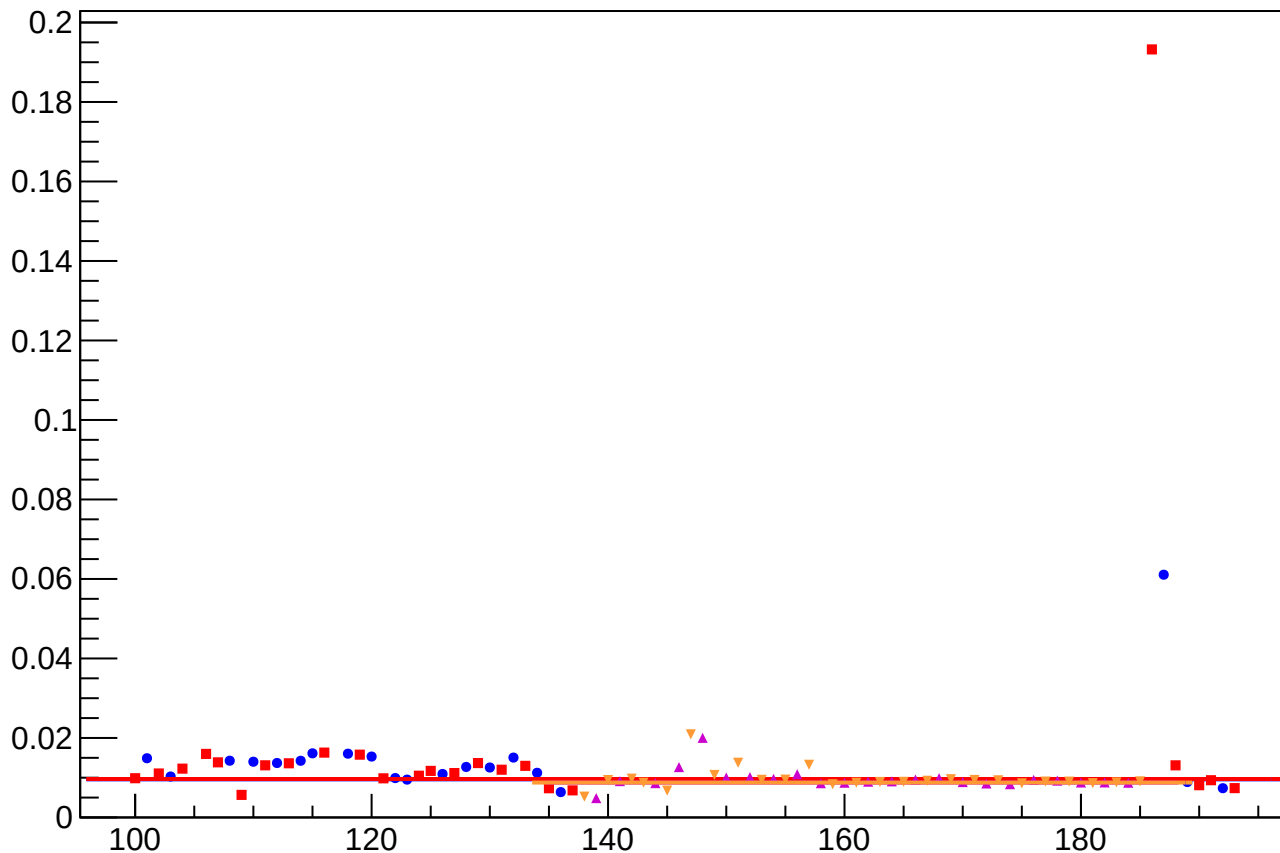
Out: 0.946 $\pm$ 0.000 χ^2 /NDF: 101168093436.3/48

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.939 $\pm$ 0.000 χ^2 /NDF: 181217698321.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1651388.3/19

Left Out: 0.009+/-0.000 χ^2/NDF : 1697568.1/24

Right Out: 0.010+/-0.000 χ^2/NDF : 2076389.7/23

Left In: 0.009+/-0.000 χ^2/NDF : 1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

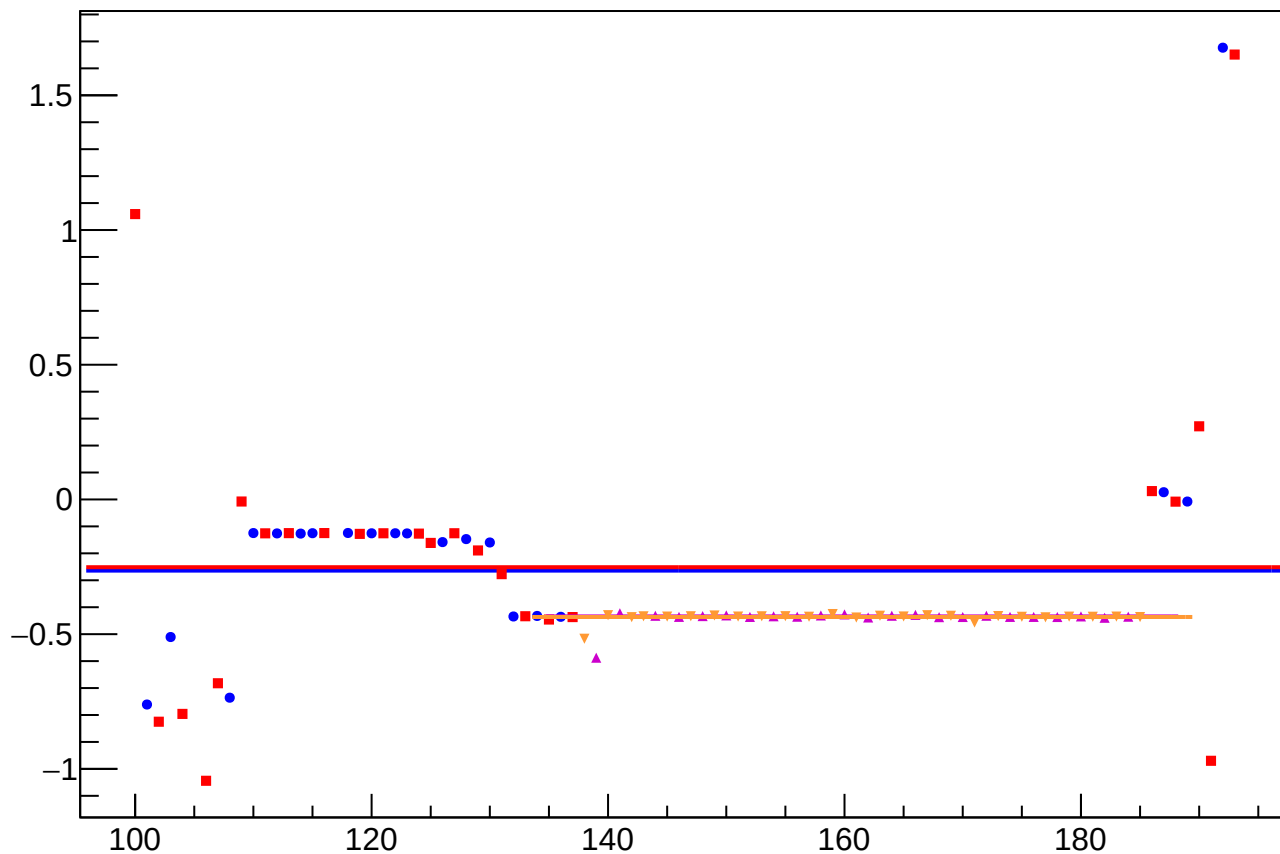
Right: 0.010+/-0.000 χ^2/NDF : 3728351.3/43

In: 0.009+/-0.000 χ^2/NDF : 3331415.2/42

Out: 0.009+/-0.000 χ^2/NDF : 3869053.6/48

All: 0.009+/-0.000 χ^2/NDF : 7200775.9/91

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.264 $\pm$ 0.000 χ^2 /NDF: 1859749252.1/19

Left Out: -0.436 $\pm$ 0.000 χ^2 /NDF: 28774660.0/24

Right Out: -0.252 $\pm$ 0.000 χ^2 /NDF: 1748258960.1/23

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

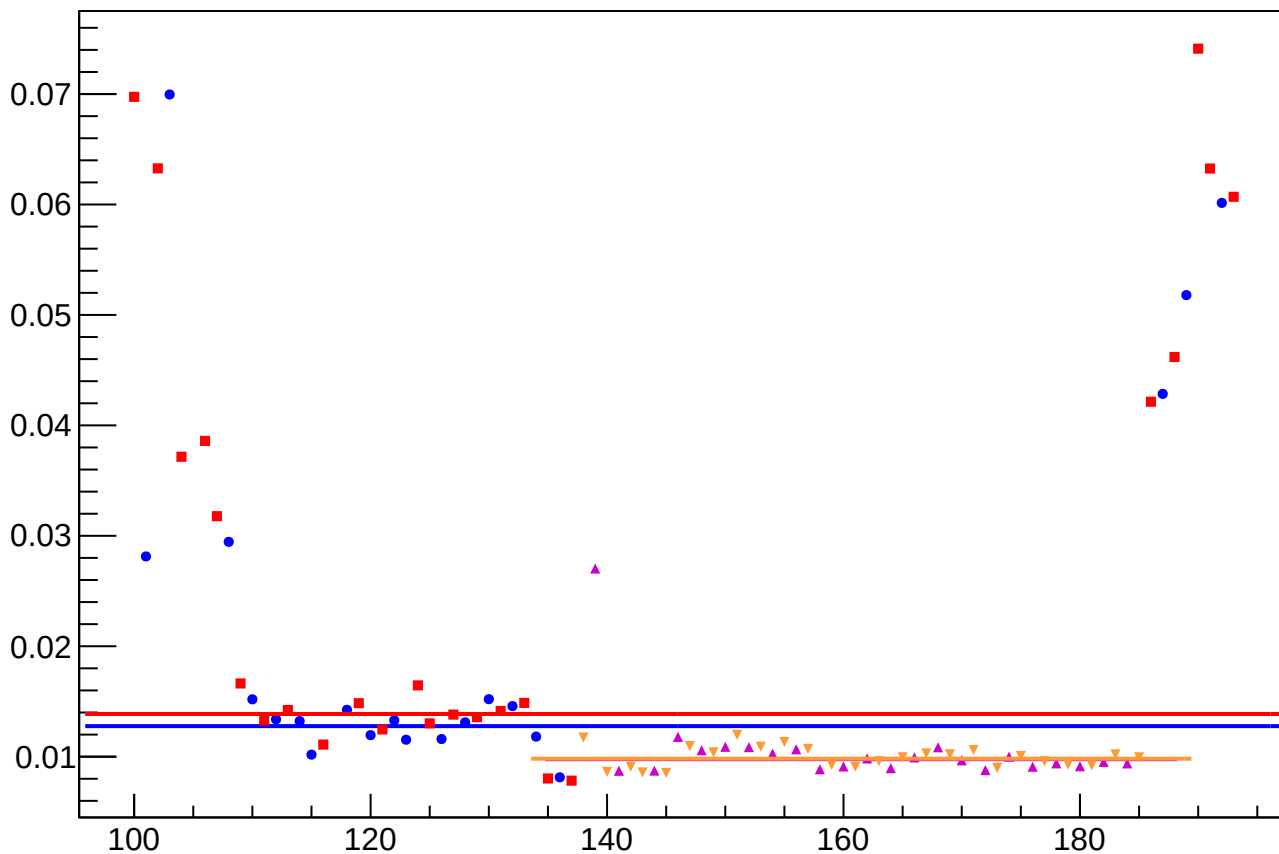
Right: -0.258 $\pm$ 0.000 χ^2 /NDF: 3610513706.8/43

In: -0.404 $\pm$ 0.000 χ^2 /NDF: 2656677489.5/42

Out: -0.407 $\pm$ 0.000 χ^2 /NDF: 2657534739.1/48

All: -0.405 $\pm$ 0.000 χ^2 /NDF: 5314848165.1/9

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 3492676.1/19

Left Out: 0.010+/-0.000 χ^2/NDF :269242.6/24

Right Out: 0.014+/-0.000 χ^2/NDF : 4748735.2/23

Left In: 0.010+/-0.000 χ^2/NDF :747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

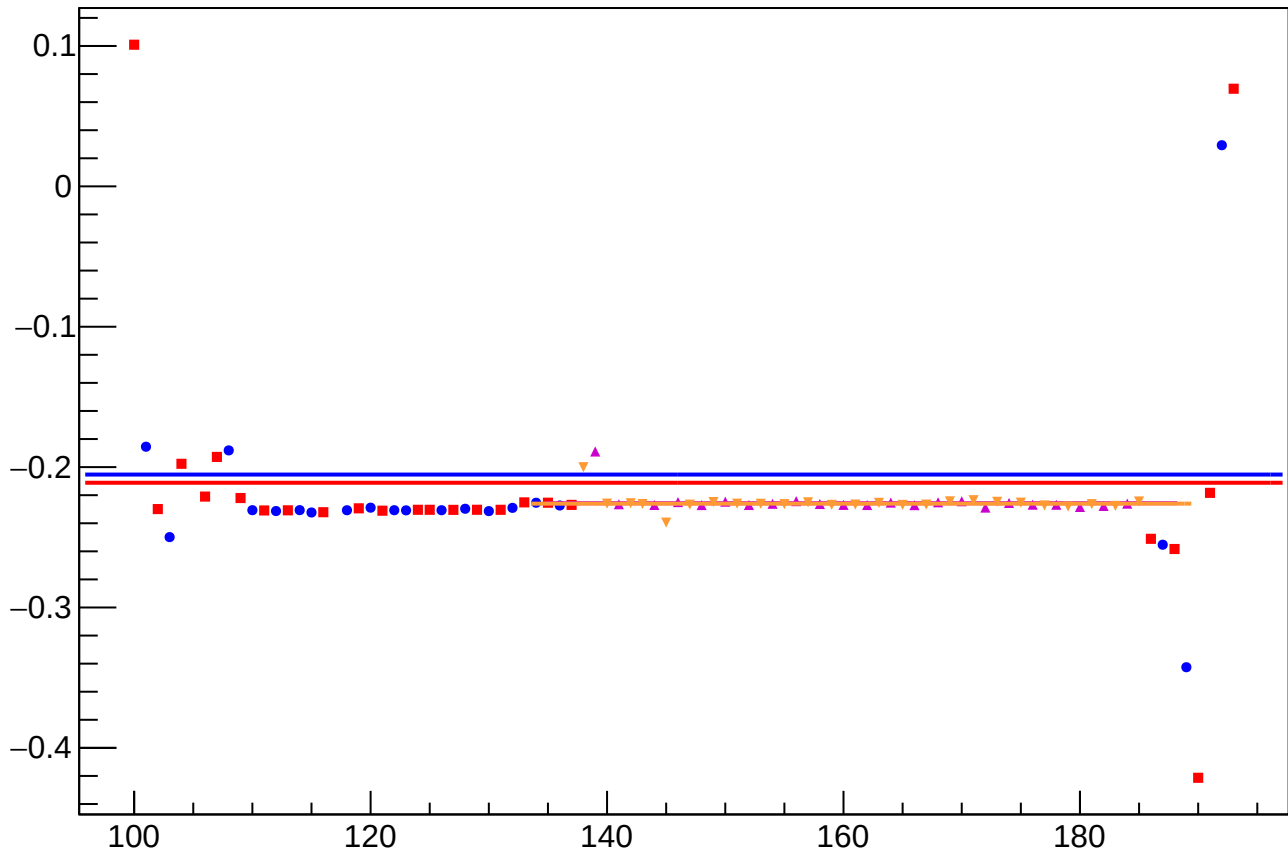
Right: 0.013+/-0.000 χ^2/NDF : 8279496.6/43

In: 0.010+/-0.000 χ^2/NDF :4719237.6/42

Out: 0.010+/-0.000 χ^2/NDF :5862462.5/48

All: 0.010+/-0.000 χ^2/NDF : 10586771.3/91

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 $\chi^2/\text{NDF}: 1875660684.7/19$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21205667.4/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 2427299724.7/23$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 15245251.1/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 36480793.2/47$

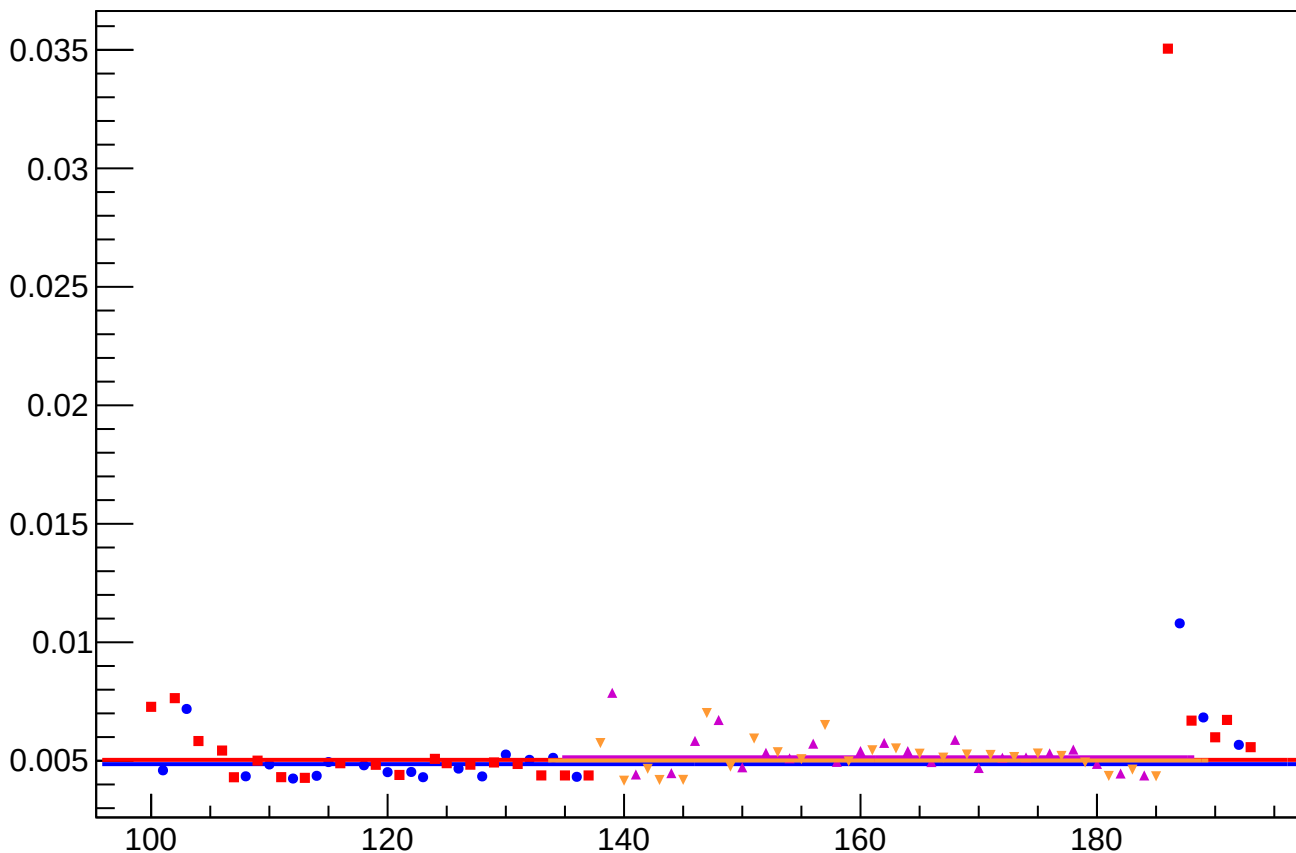
Right: -0.208 ± 0.000 $\chi^2/\text{NDF}: 4308480922.6/43$

In: -0.219 ± 0.000 $\chi^2/\text{NDF}: 1977402955.9/42$

Out: -0.221 ± 0.000 $\chi^2/\text{NDF}: 2498157240.3/48$

All: -0.220 ± 0.000 $\chi^2/\text{NDF}: 4478182648.6/9$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 394133.5/19

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 965885.1/23

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

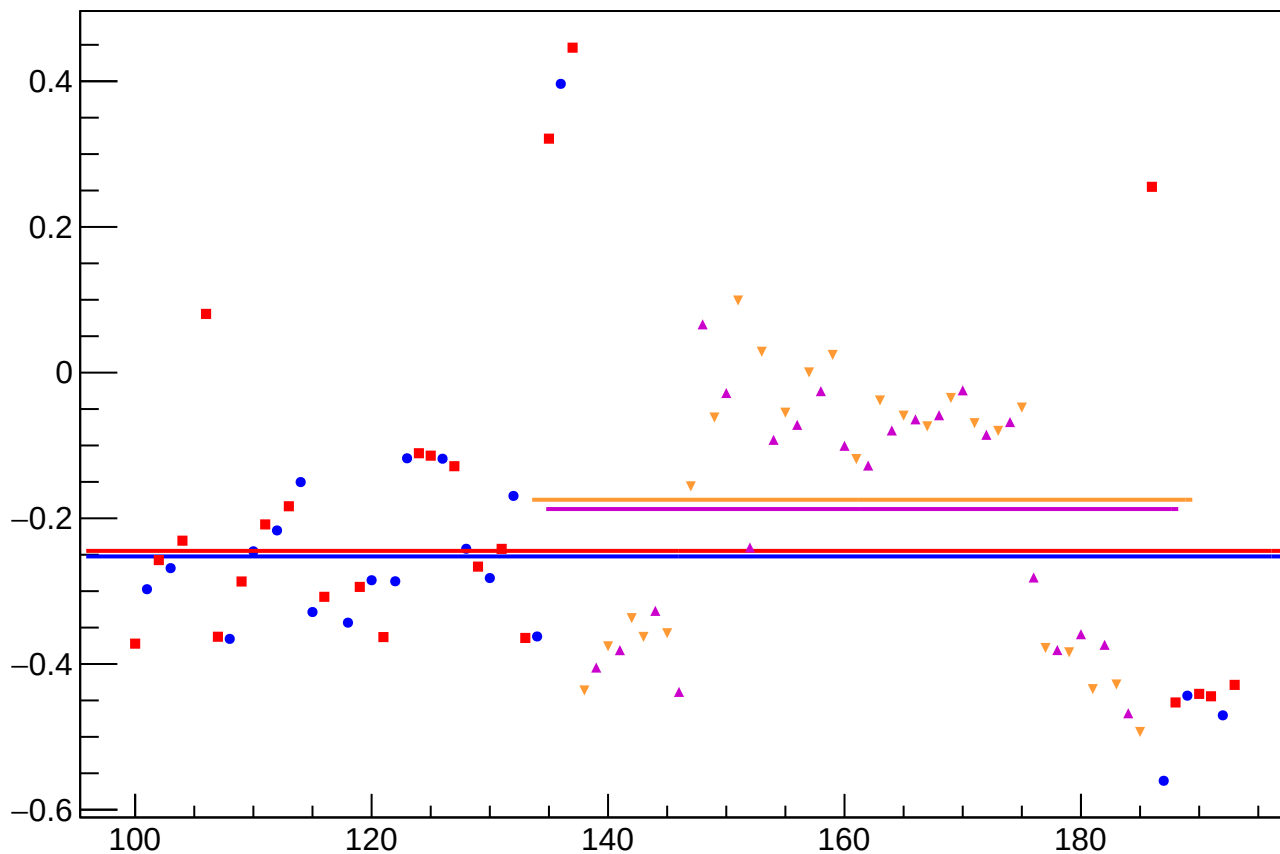
Right: 0.005+/-0.000 χ^2/NDF : 1370581.2/43

In: 0.005+/-0.000 χ^2/NDF : 921764.2/42

Out: 0.005+/-0.000 χ^2/NDF : 1496801.2/48

All: 0.005+/-0.000 χ^2/NDF : 2419279.1/91

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.252 ± 0.000 $\chi^2/\text{NDF}: 7956139675.2/19$

Left Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 18025533236.1/24$

Right Out: -0.245 ± 0.000 $\chi^2/\text{NDF}: 9063752543.6/23$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.181 ± 0.000 $\chi^2/\text{NDF}: 30888184231.6/47$

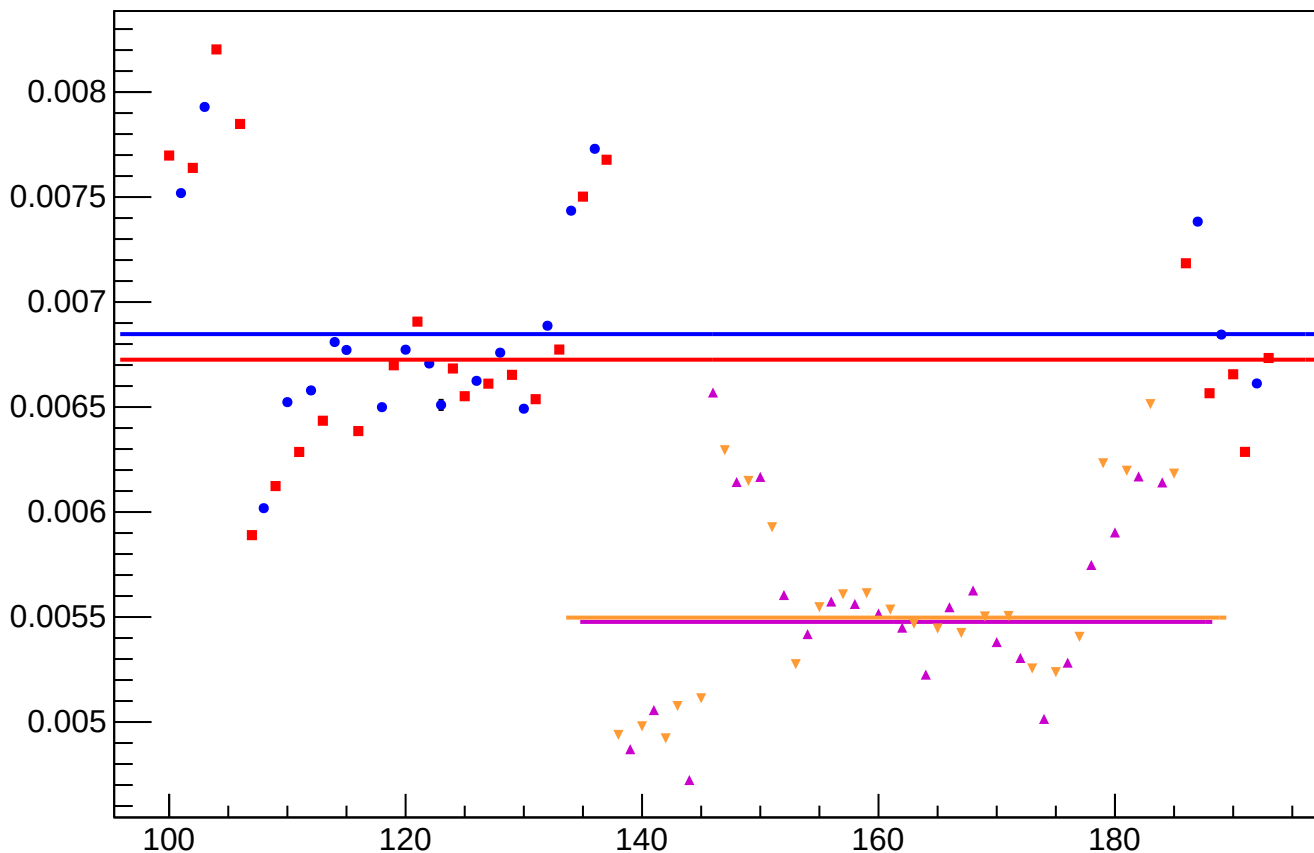
Right: -0.248 ± 0.000 $\chi^2/\text{NDF}: 17025379349.0/43$

In: -0.203 ± 0.000 $\chi^2/\text{NDF}: 21326390584.1/42$

Out: -0.193 ± 0.000 $\chi^2/\text{NDF}: 27843127907.5/48$

All: -0.198 ± 0.000 $\chi^2/\text{NDF}: 49205334823.1/100$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 82682.5/19

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 112239.7/23

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

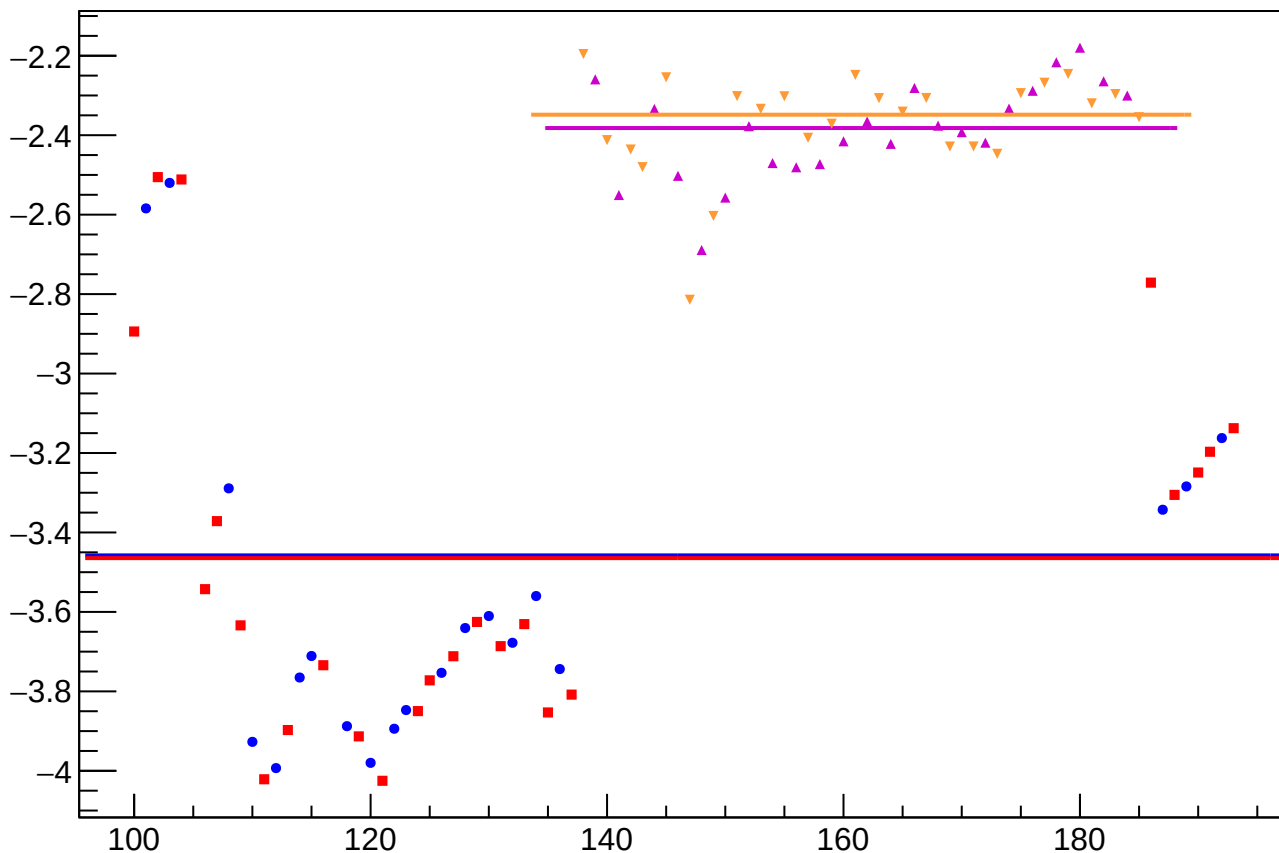
Right: 0.007+/-0.000 χ^2/NDF : 197712.7/43

In: 0.006+/-0.000 χ^2/NDF :776409.2/42

Out: 0.006+/-0.000 χ^2/NDF :772447.6/48

All: 0.006+/-0.000 χ^2/NDF : 1549097.9/91

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.458+/-0.000 χ^2/NDF : 27878373977.6/19

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.465+/-0.000 χ^2/NDF : 29068896724.9/23

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

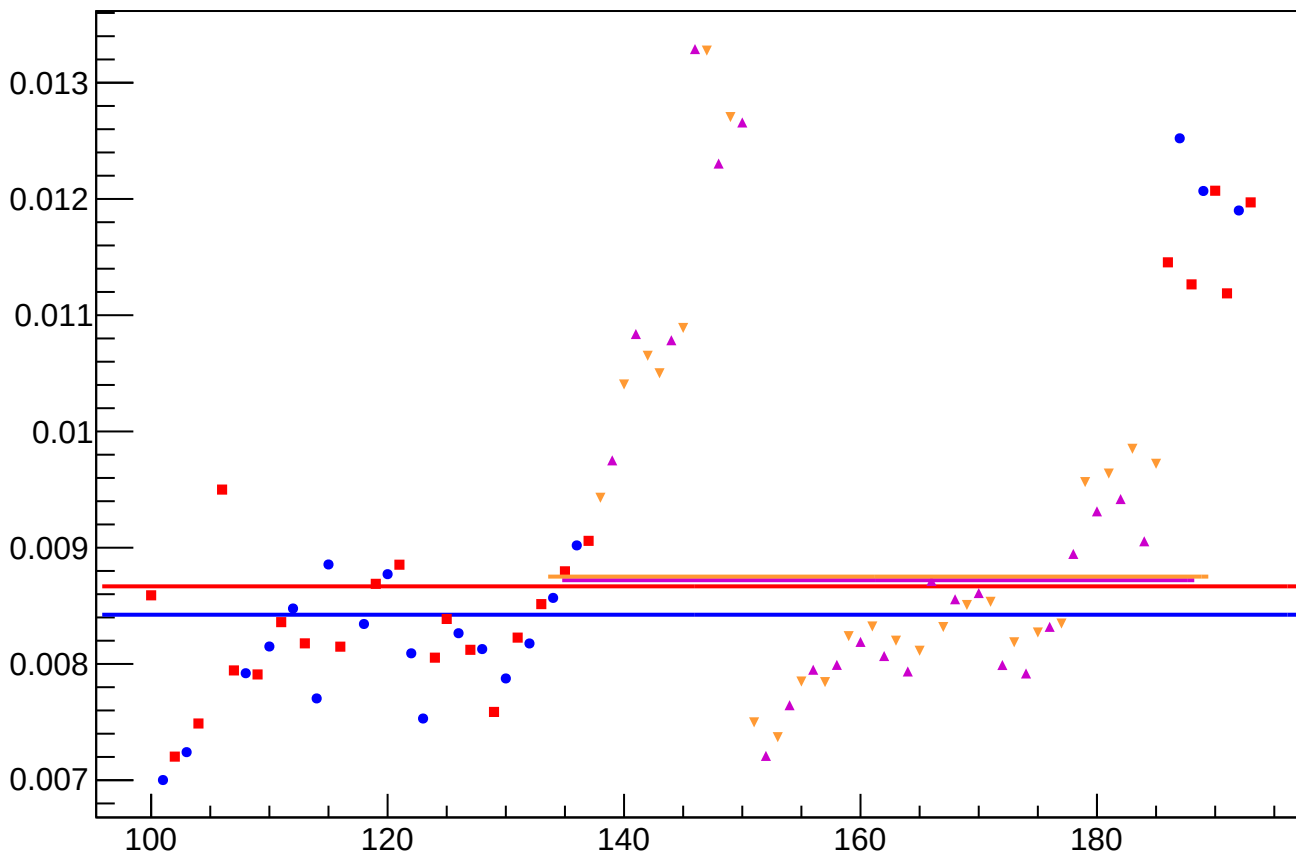
Right: -3.461+/-0.000 χ^2/NDF : 56949993851.9/43

In: -2.749+/-0.000 χ^2/NDF : 114464536809.0/42

Out: -2.739+/-0.000 χ^2/NDF : 129334105622.8/48

All: -2.744+/-0.000 χ^2/NDF : 243815316727.5

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 369928.1/19

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 440431.0/23

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

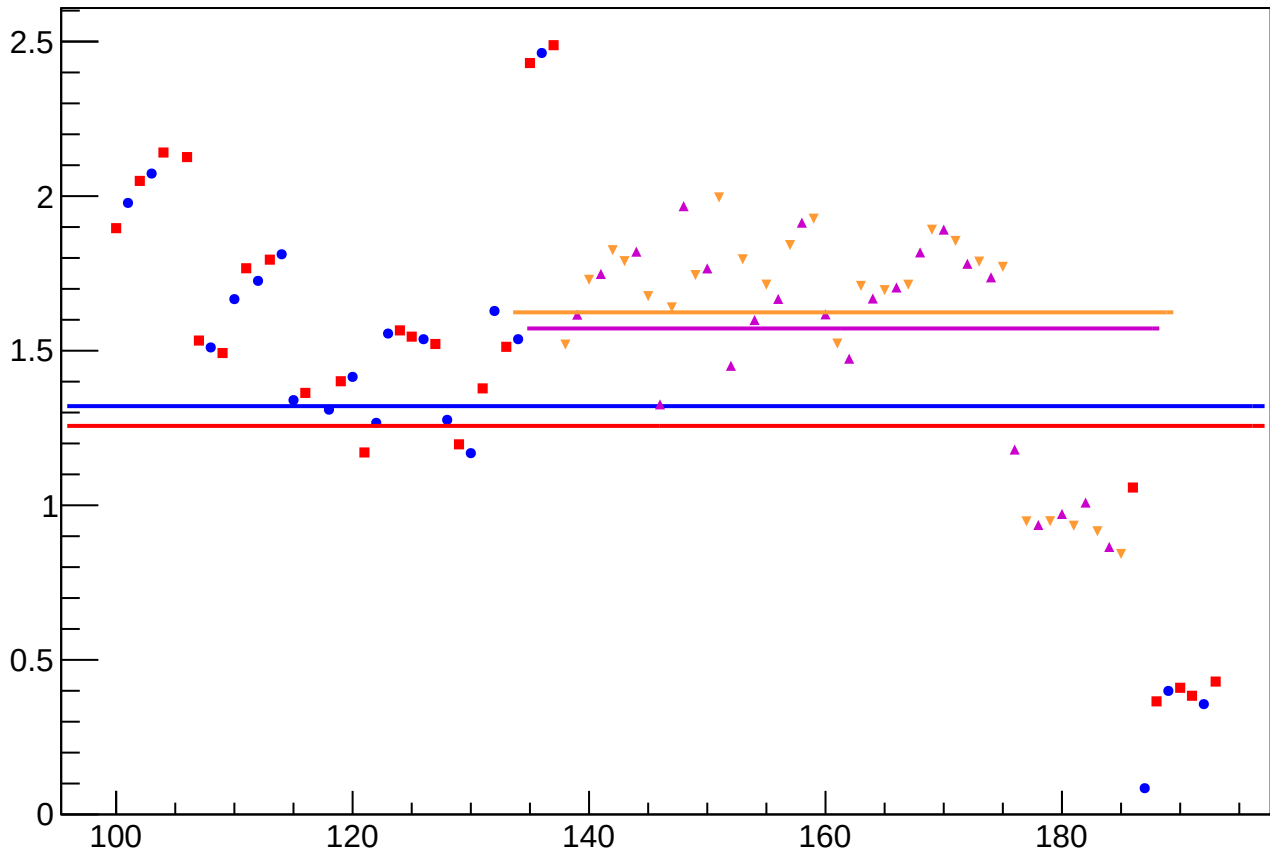
Right: 0.009+/-0.000 χ^2/NDF : 817248.6/43

In: 0.009+/-0.000 χ^2/NDF :1130648.1/42

Out: 0.009+/-0.000 χ^2/NDF :1105211.3/48

All: 0.009+/-0.000 χ^2/NDF : 2239405.0/91

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.321+/-0.000 χ^2/NDF : 24429412728.5/19

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.257+/-0.000 χ^2/NDF : 28518348756.6/23

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

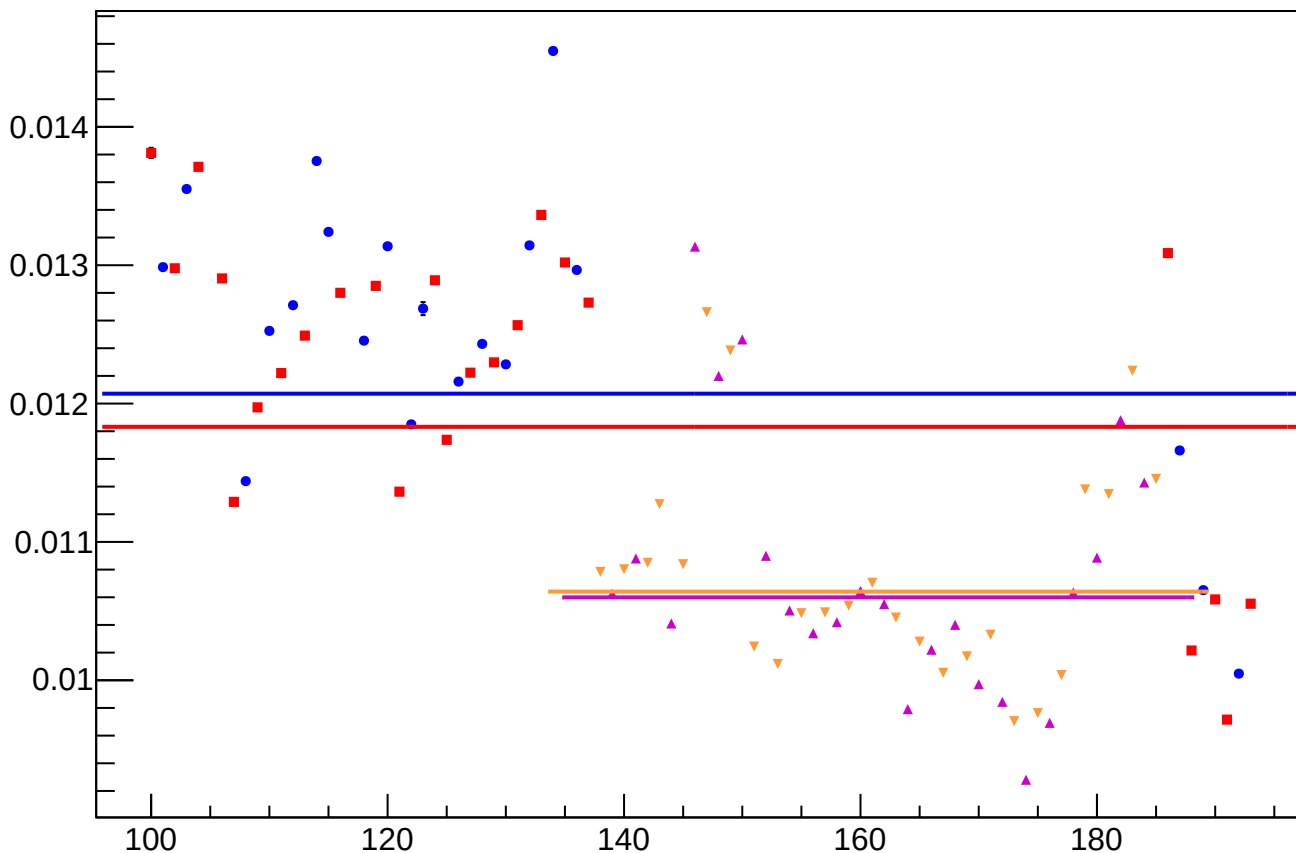
Right: 1.286+/-0.000 χ^2/NDF : 53070517409.9/43

In: 1.504+/-0.000 χ^2/NDF : 41184725152.9/42

Out: 1.514+/-0.000 χ^2/NDF : 51447584595.3/48

All: 1.509+/-0.000 χ^2/NDF : 92643412515.0/95

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 150621.9/19

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 179715.3/23

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

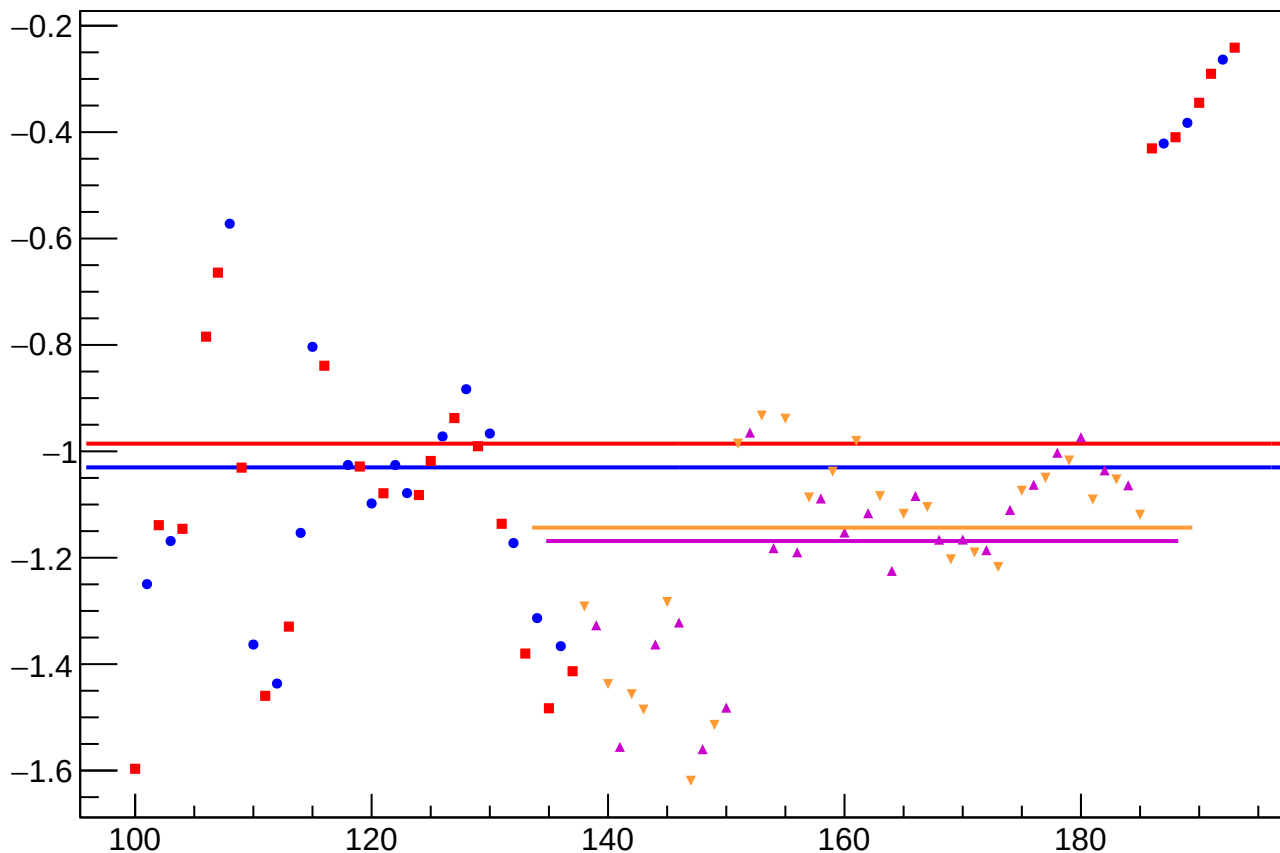
Right: 0.012+/-0.000 χ^2/NDF : 333800.5/43

In: 0.011+/-0.000 χ^2/NDF :528524.7/42

Out: 0.011+/-0.000 χ^2/NDF :471852.0/48

All: 0.011+/-0.000 χ^2/NDF : 1000376.7/91

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.030+/-0.000 χ^2/NDF : 10067525370.9/19

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.986+/-0.000 χ^2/NDF : 13718081764.6/23

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

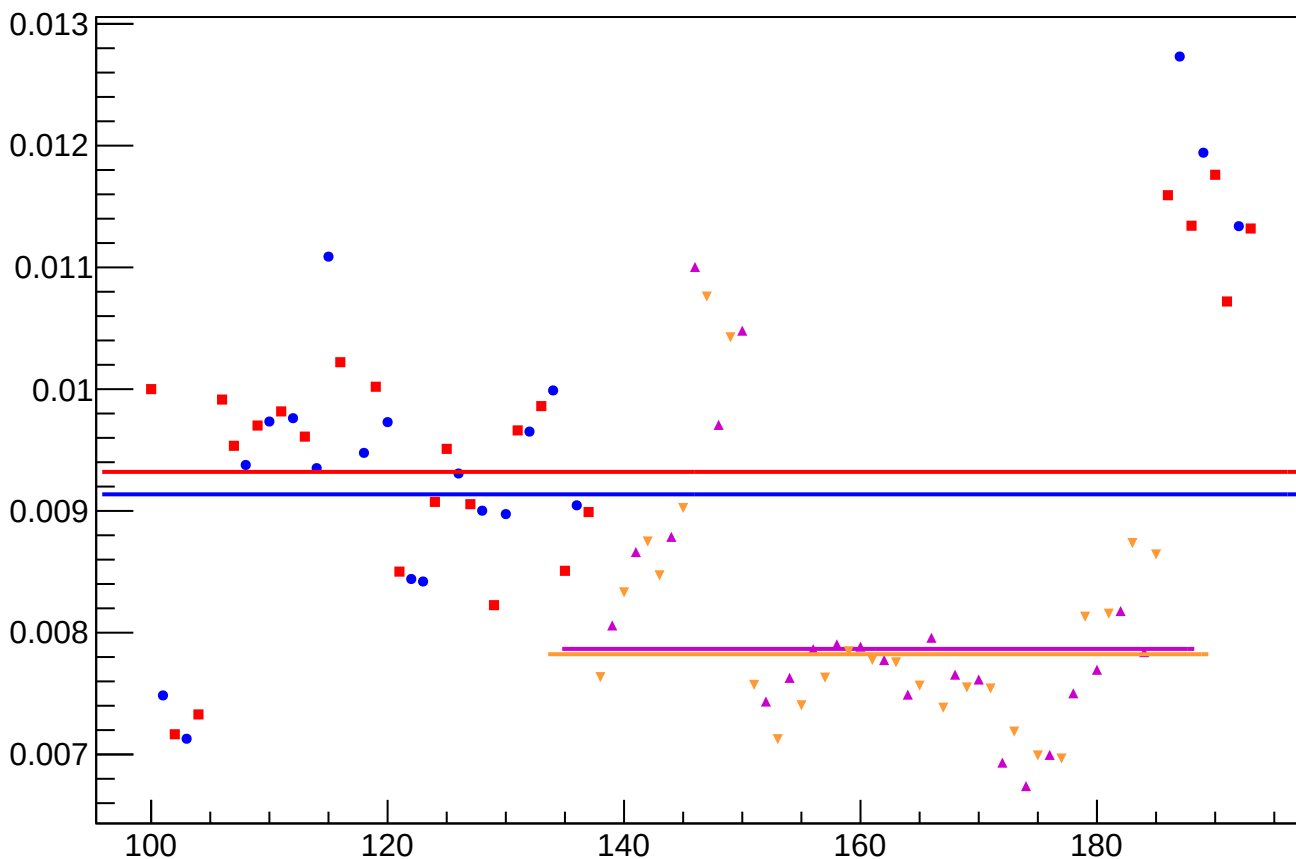
Right: -1.007+/-0.000 χ^2/NDF : 23883395653.8/43

In: -1.132+/-0.000 χ^2/NDF : 17746844217.8/42

Out: -1.101+/-0.000 χ^2/NDF : 23581755939.6/48

All: -1.116+/-0.000 χ^2/NDF : 41512959871.4/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 312142.6/19

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 376040.0/23

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

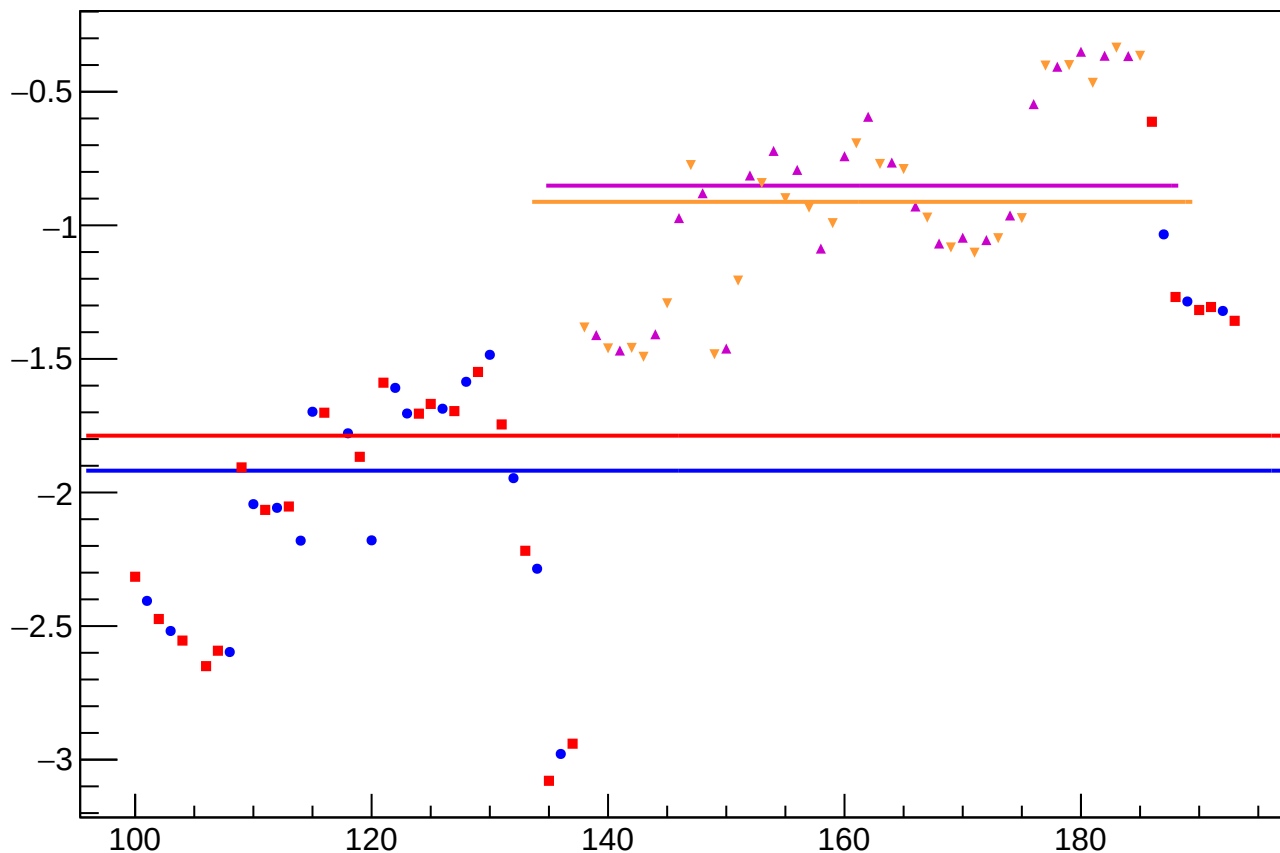
Right: 0.009+/-0.000 χ^2/NDF : 691518.0/43

In: 0.008+/-0.000 χ^2/NDF :913446.8/42

Out: 0.008+/-0.000 χ^2/NDF :1051992.1/48

All: 0.008+/-0.000 χ^2/NDF : 1965741.2/91

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -1.918 ± 0.000 $\chi^2/\text{NDF}: 47778418577.0/19$

Left Out: -0.912 ± 0.000 $\chi^2/\text{NDF}: 49039425818.1/24$

Right Out: -1.787 ± 0.000 $\chi^2/\text{NDF}: 73928938090.5/23$

Left In: -0.851 ± 0.000 $\chi^2/\text{NDF}: 46438446008.2/22$

Left: -0.882 ± 0.000 $\chi^2/\text{NDF}: 96285672564.6/47$

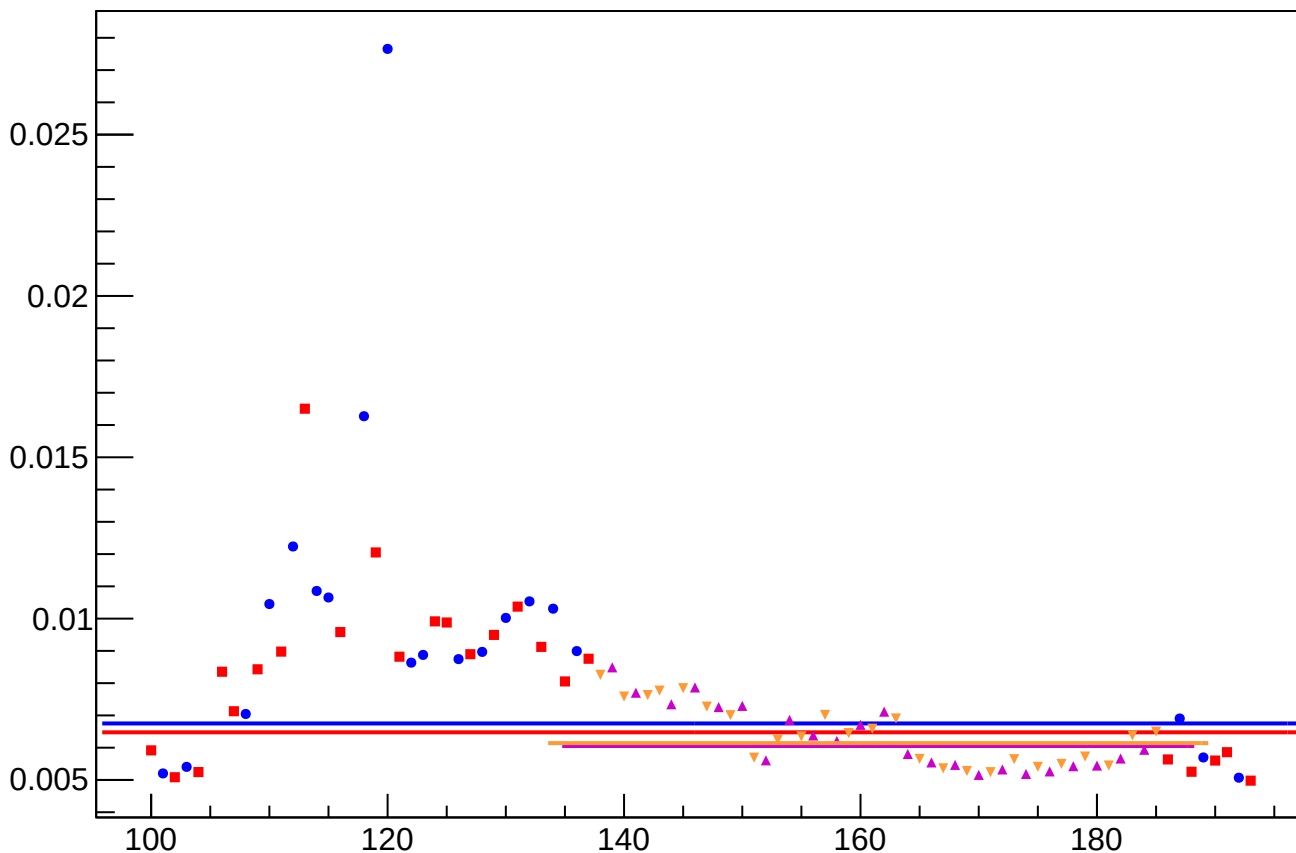
Right: -1.843 ± 0.000 $\chi^2/\text{NDF}: 123066263421.7/43$

In: -1.108 ± 0.000 $\chi^2/\text{NDF}: 213341694947.1/42$

Out: -1.170 ± 0.000 $\chi^2/\text{NDF}: 223362286234.8/48$

All: -1.140 ± 0.000 $\chi^2/\text{NDF}: 437841953042.6$

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 1546850.6/19

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:637765.4/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 1382924.0/23

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:697577.8/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 1338871.2/47

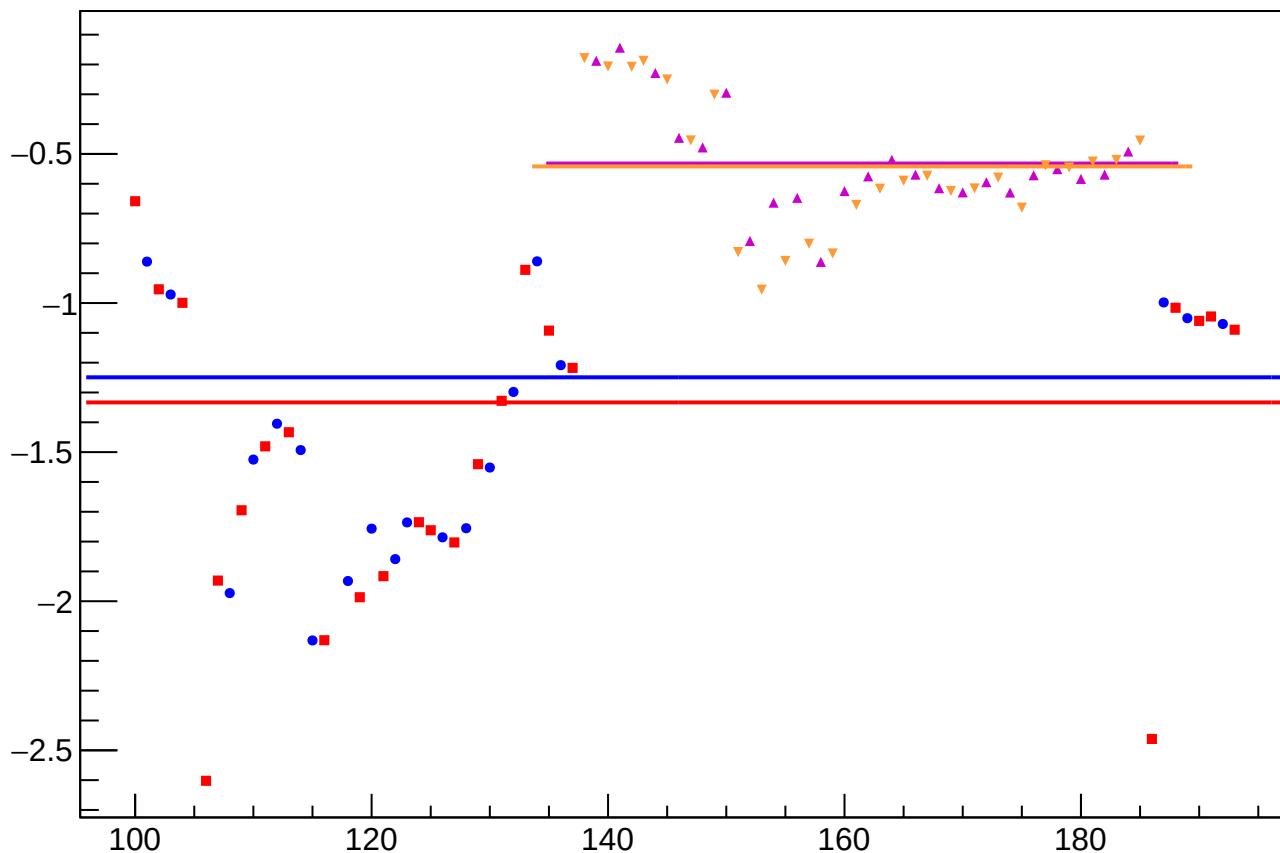
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 2941751.6/43

In: 0.006 $\pm$ 0.000 χ^2 /NDF:2346685.9/42

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:2049980.1/48

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 4396900.9/91

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.249+/-0.000 χ^2/NDF : 25305079322.4/19

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.333+/-0.000 χ^2/NDF : 73999469287.4/23

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

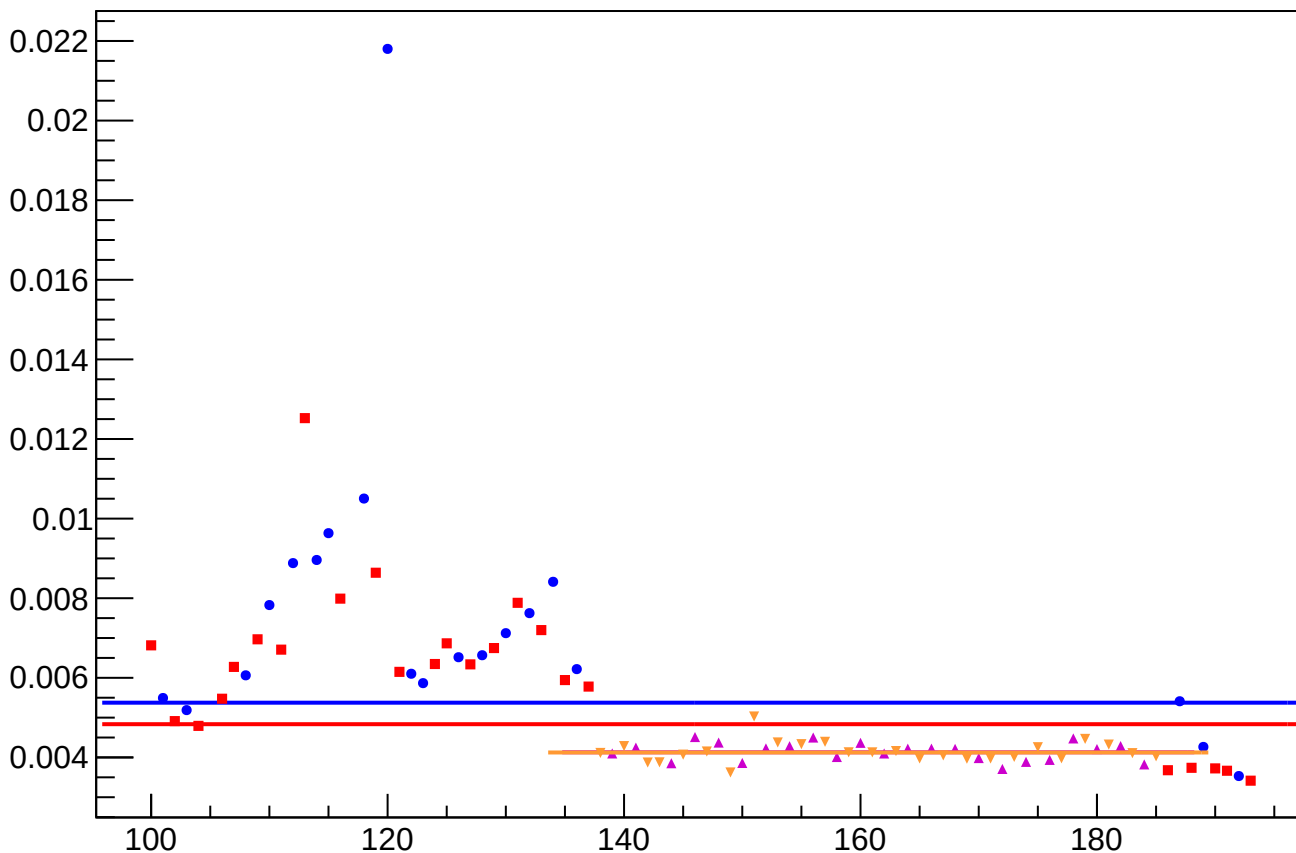
Right: -1.299+/-0.000 χ^2/NDF : 100233640052.3/43

In: -0.668+/-0.000 χ^2/NDF : 147466298489.6/42

Out: -0.737+/-0.000 χ^2/NDF : 274471102218.8/48

All: -0.705+/-0.000 χ^2/NDF : 424840157669.9

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1371466.8/19

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1511330.0/23

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

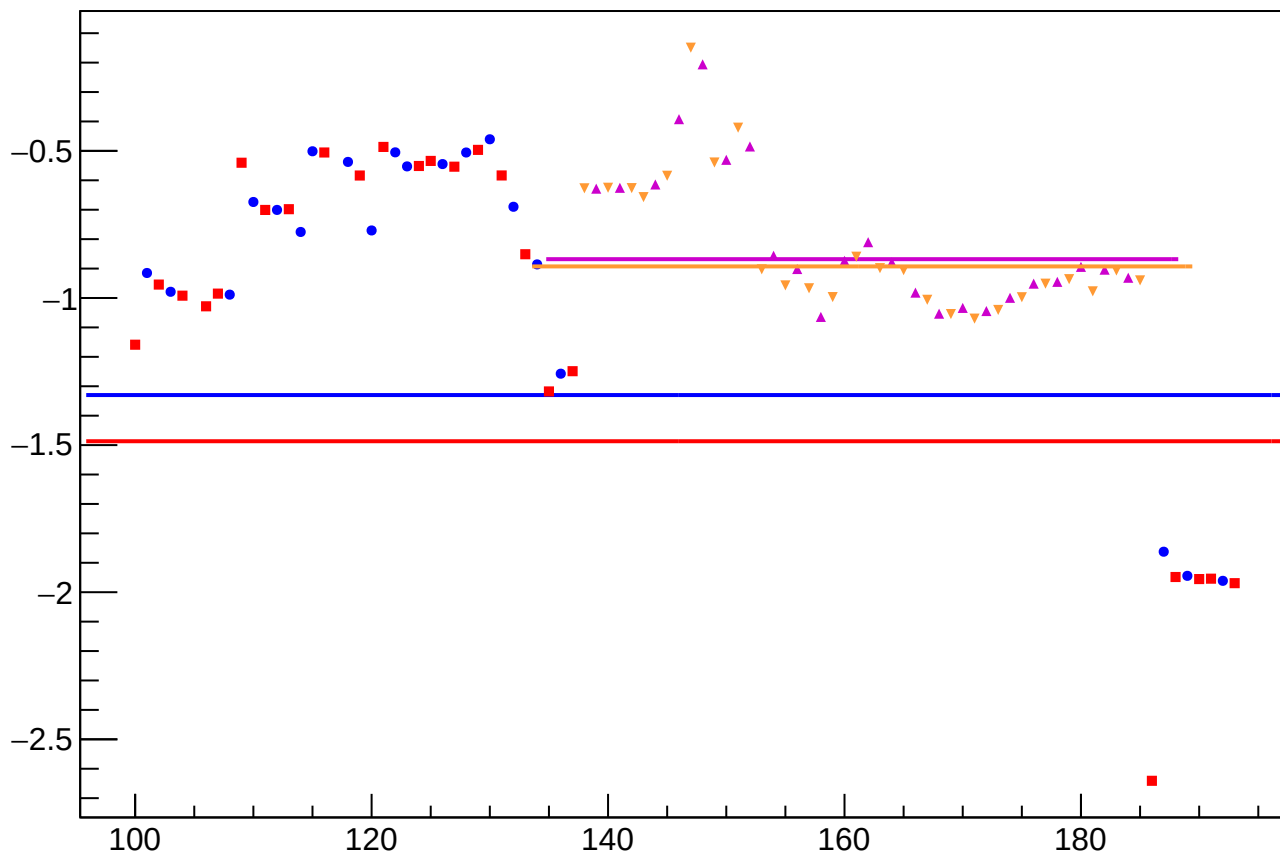
Right: 0.005+/-0.000 χ^2/NDF : 2959307.0/43

In: 0.004+/-0.000 χ^2/NDF :2016767.2/42

Out: 0.004+/-0.000 χ^2/NDF :1871415.9/48

All: 0.004+/-0.000 χ^2/NDF : 3893663.8/91

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.330+/-0.000

χ^2/NDF : 128239864584.2/19

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Right: -1.421+/-0.000

χ^2/NDF : 348065099384.7/43

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

In: -0.980+/-0.000

χ^2/NDF : 229901881686.6/42

Right Out: -1.487+/-0.000

χ^2/NDF : 214731295698.5/23

Out: -1.073+/-0.000

χ^2/NDF : 376025067330.1/48

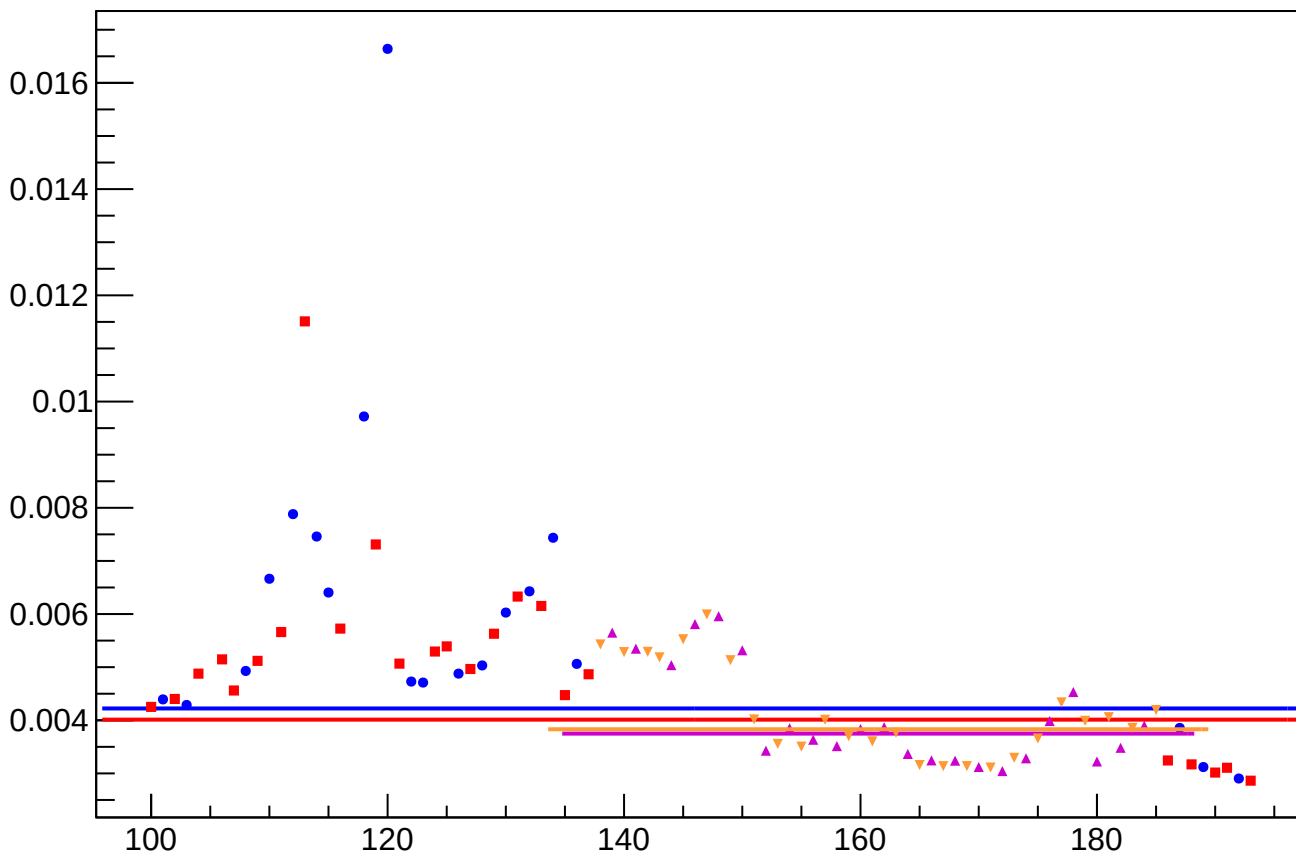
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.029+/-0.000

χ^2/NDF : 612548137223.5

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1531496.8/19

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1459756.8/23

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

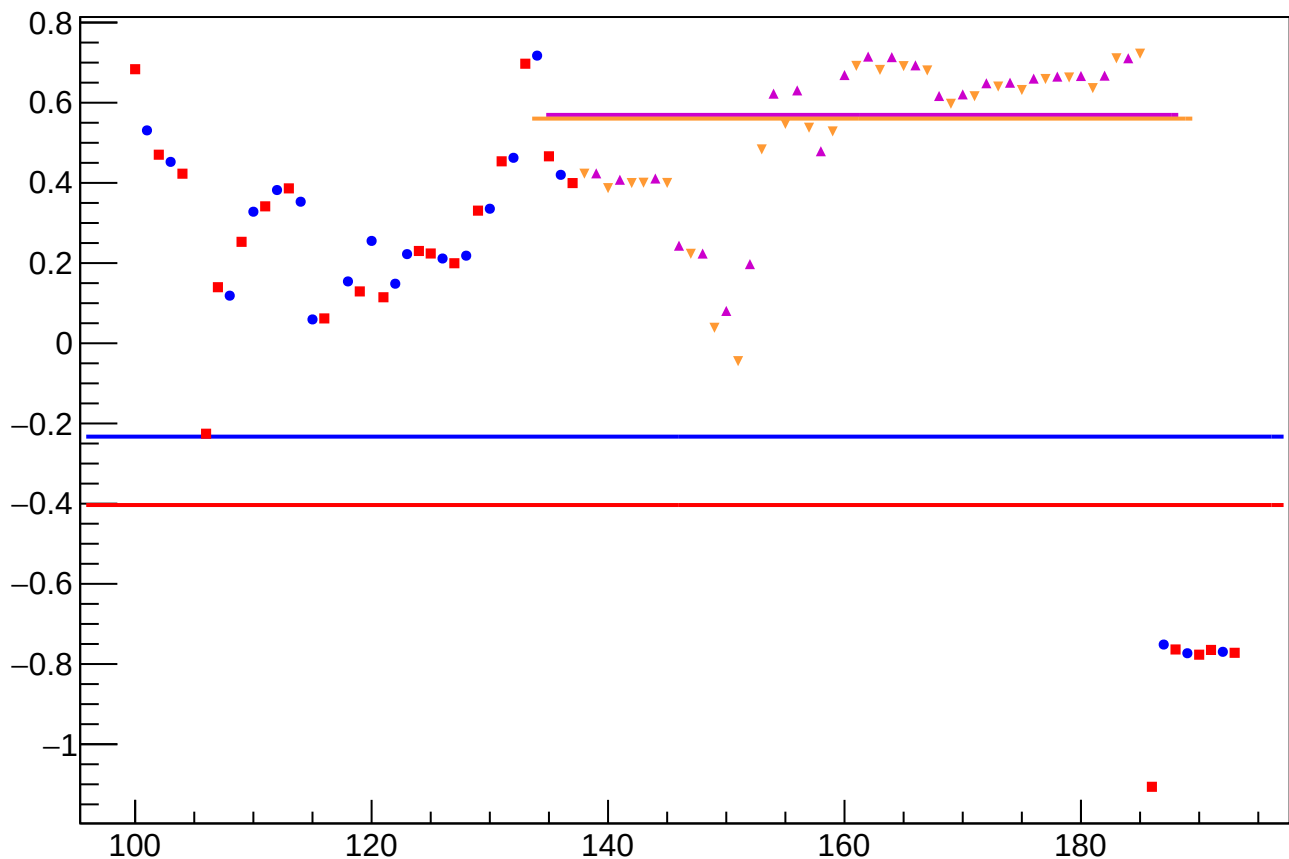
Right: 0.004+/-0.000 χ^2/NDF : 3009580.6/43

In: 0.004+/-0.000 χ^2/NDF :2941557.2/42

Out: 0.004+/-0.000 χ^2/NDF :2662000.9/48

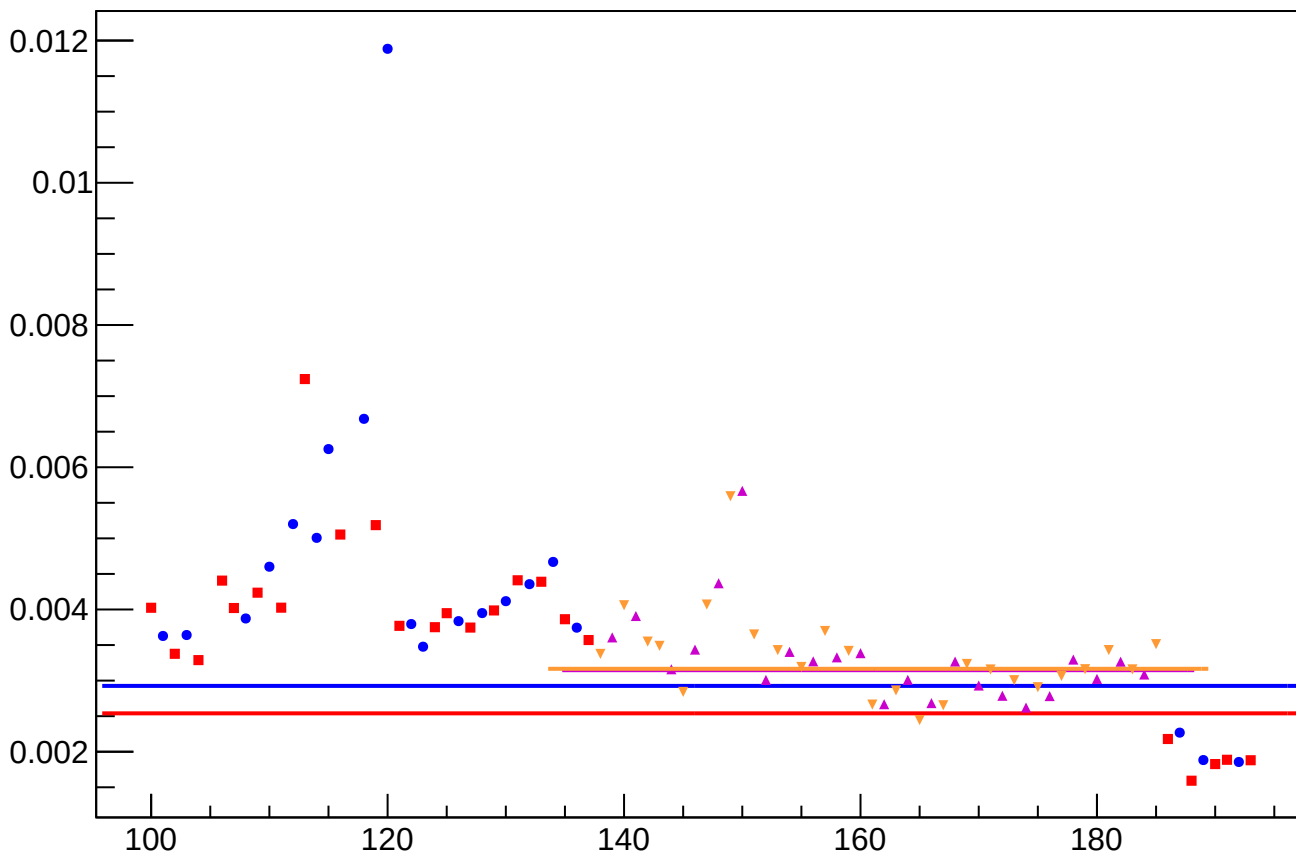
All: 0.004+/-0.000 χ^2/NDF : 5604290.4/91

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.233+/-0.000	χ^2/NDF : 233521940429.2/19	Left: 0.565+/-0.000	χ^2/NDF : 87378176036.1/47
Left Out: 0.560+/-0.000	χ^2/NDF : 45205806387.2/24	Right: -0.336+/-0.000	χ^2/NDF : 593009103834.4/43
Right Out: -0.403+/-0.000	χ^2/NDF : 346734560476.1/23	In: 0.316+/-0.000	χ^2/NDF : 593118926511.3/42
Left In: 0.570+/-0.000	χ^2/NDF : 42104067973.0/22	Out: 0.167+/-0.000	χ^2/NDF : 1005639895479.0/48
		All: 0.235+/-0.000	χ^2/NDF : 1626244812744.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2147409.5/19

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 2689570.1/23

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

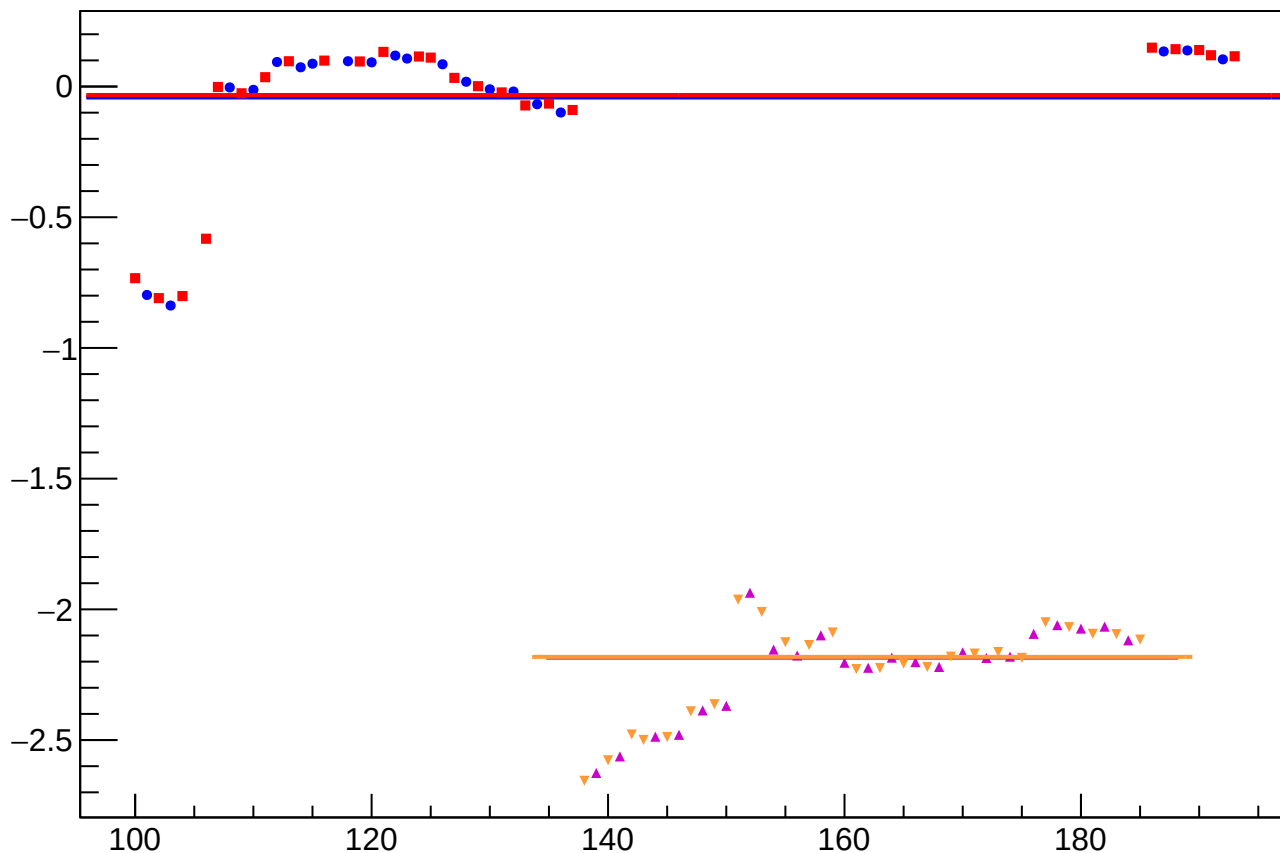
Right: 0.003+/-0.000 χ^2/NDF : 4967500.7/43

In: 0.003+/-0.000 χ^2/NDF : 2911878.1/42

Out: 0.003+/-0.000 χ^2/NDF : 3952950.8/48

All: 0.003+/-0.000 χ^2/NDF : 6933419.6/91

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.042 $\pm$ 0.000 χ^2 /NDF: 5503158986.7/19

Left Out: -2.182 $\pm$ 0.000 χ^2 /NDF: 4008829567.0/24

Right Out: -0.032 $\pm$ 0.000 χ^2 /NDF: 6606437511.7/23

Left In: -2.185 $\pm$ 0.000 χ^2 /NDF: 3372742534.3/22

Left: -2.183 $\pm$ 0.000 χ^2 /NDF: 7382310821.5/47

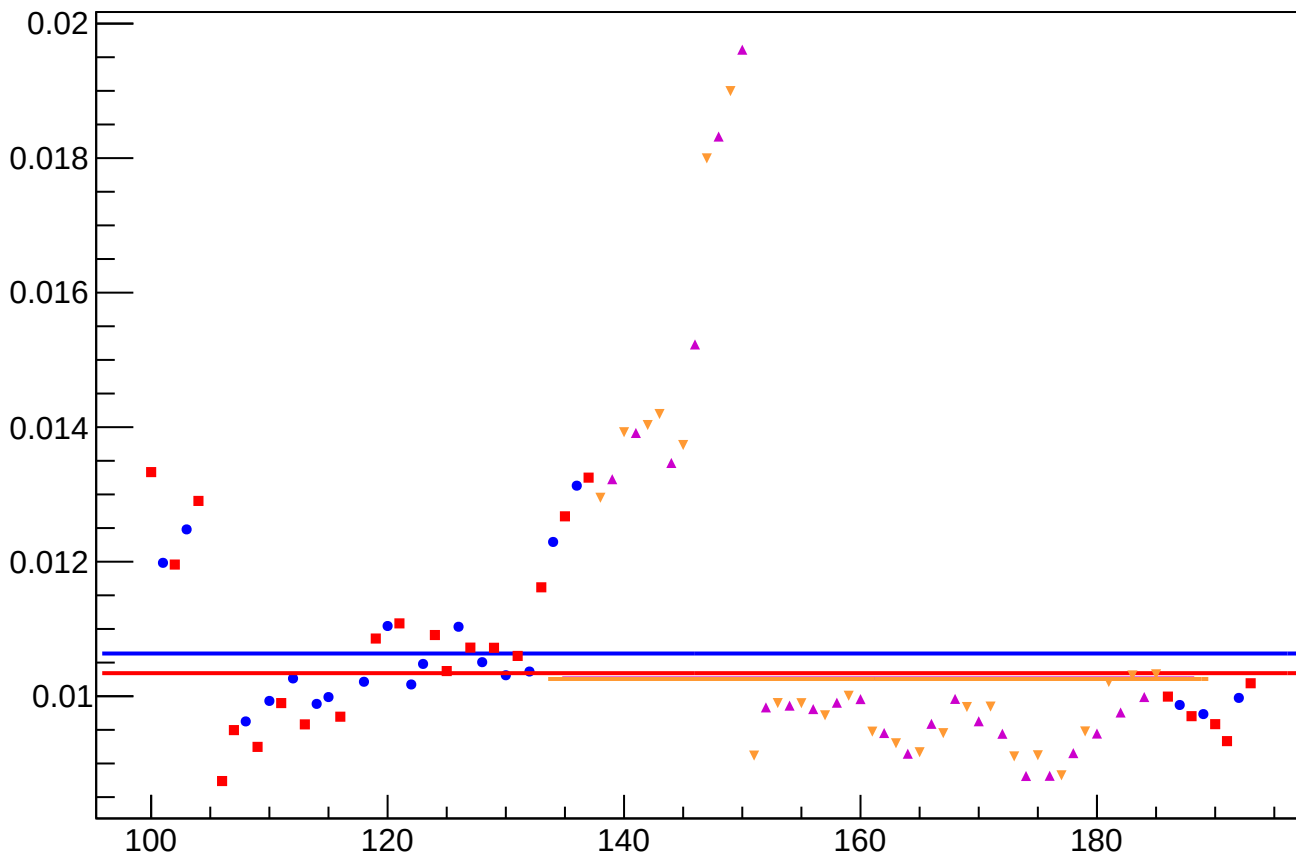
Right: -0.037 $\pm$ 0.000 χ^2 /NDF: 12113263994.9/43

In: -1.513 $\pm$ 0.000 χ^2 /NDF: 235605808849.8/42

Out: -1.435 $\pm$ 0.000 χ^2 /NDF: 279983032992.0/48

All: -1.471 $\pm$ 0.000 χ^2 /NDF: 516322213702.8

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 147023.7/19

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 204499.5/23

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

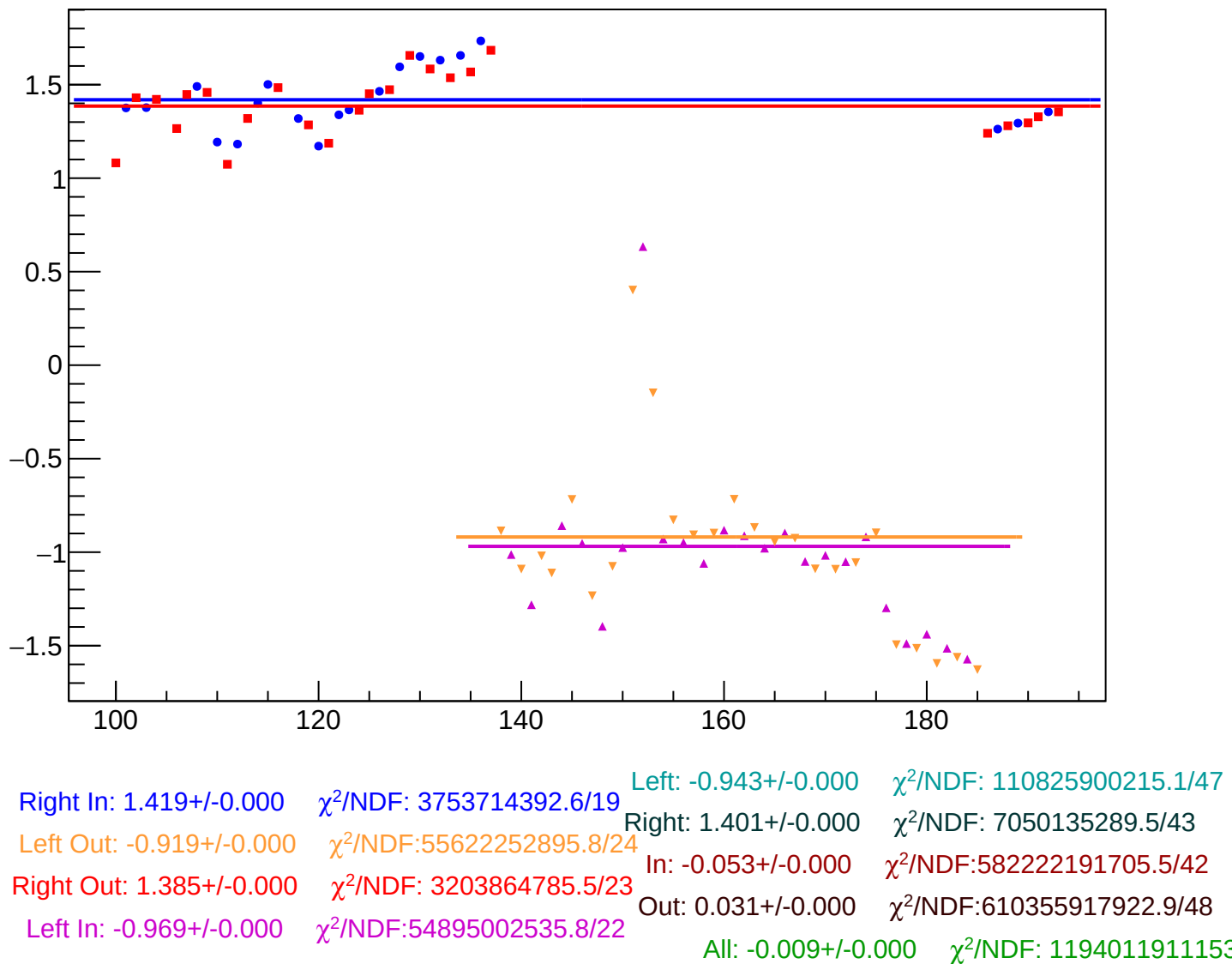
Right: 0.010+/-0.000 χ^2/NDF : 358327.8/43

In: 0.010+/-0.000 χ^2/NDF :1500849.5/42

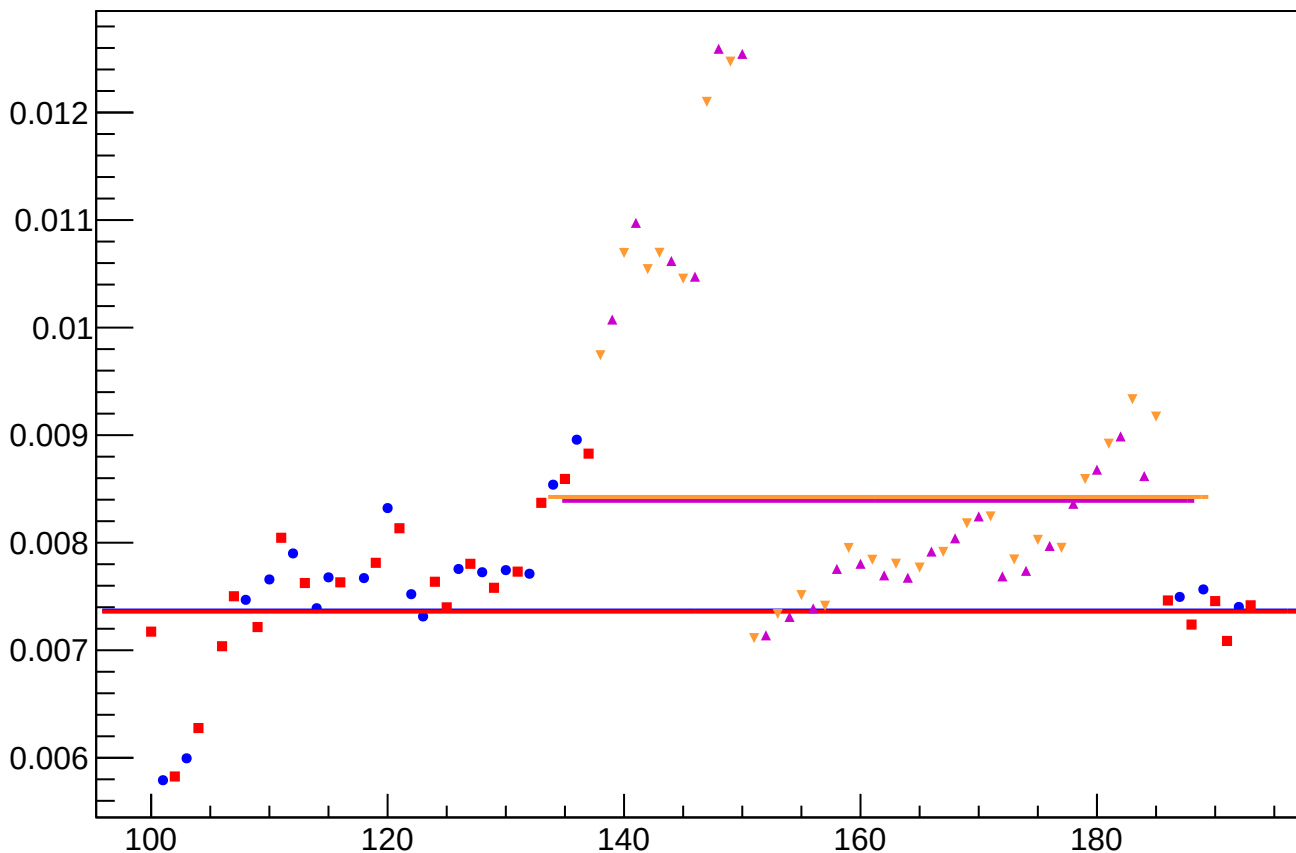
Out: 0.010+/-0.000 χ^2/NDF :1475995.1/48

All: 0.010+/-0.000 χ^2/NDF : 2979008.0/91

yield_bpm1i02Y_mean vs Slug, Sign Corrected



yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 229531.8/19

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 174054.1/23

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

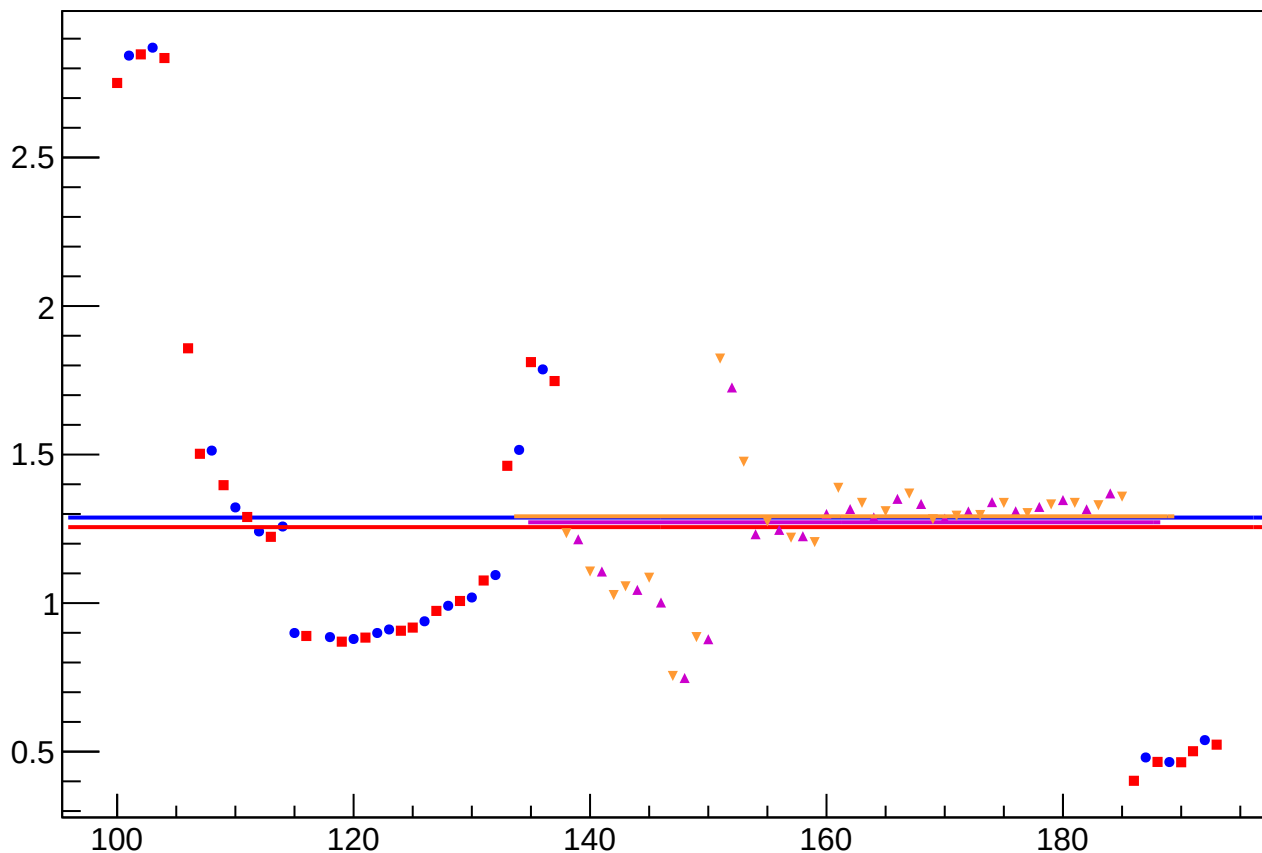
Right: 0.007+/-0.000 χ^2/NDF : 403603.1/43

In: 0.008+/-0.000 χ^2/NDF : 1260509.1/42

Out: 0.008+/-0.000 χ^2/NDF : 1202731.3/48

All: 0.008+/-0.000 χ^2/NDF : 2463301.9/91

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.288 $\pm$ 0.000 χ^2 /NDF: 64397158627.0/19

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.256 $\pm$ 0.000 χ^2 /NDF: 68768205480.4/23

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

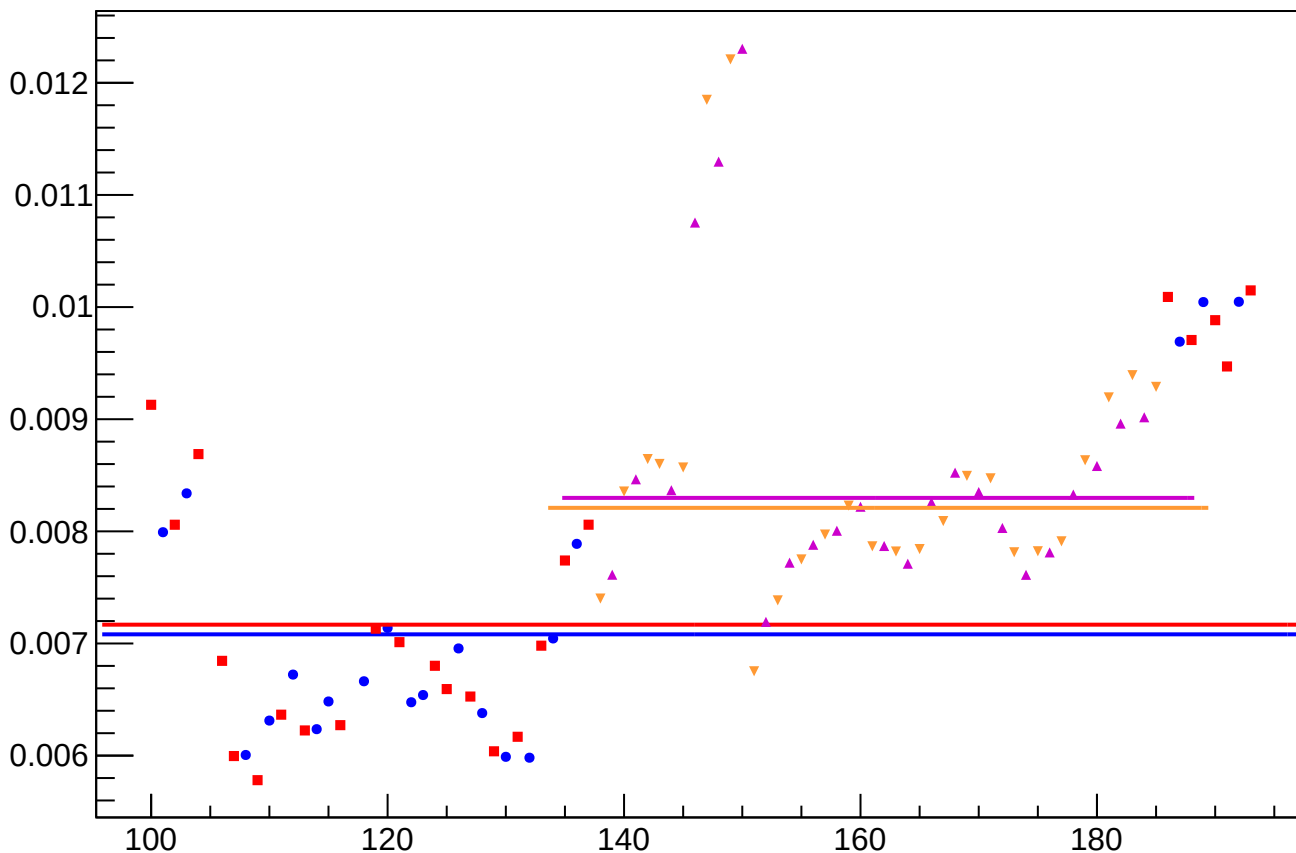
Right: 1.271 $\pm$ 0.000 χ^2 /NDF: 133253534399.9/43

In: 1.278 $\pm$ 0.000 χ^2 /NDF: 71995583945.9/42

Out: 1.277 $\pm$ 0.000 χ^2 /NDF: 78215768819.2/48

All: 1.278 $\pm$ 0.000 χ^2 /NDF: 150211596711.9

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 449494.5/19

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 646699.9/23

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

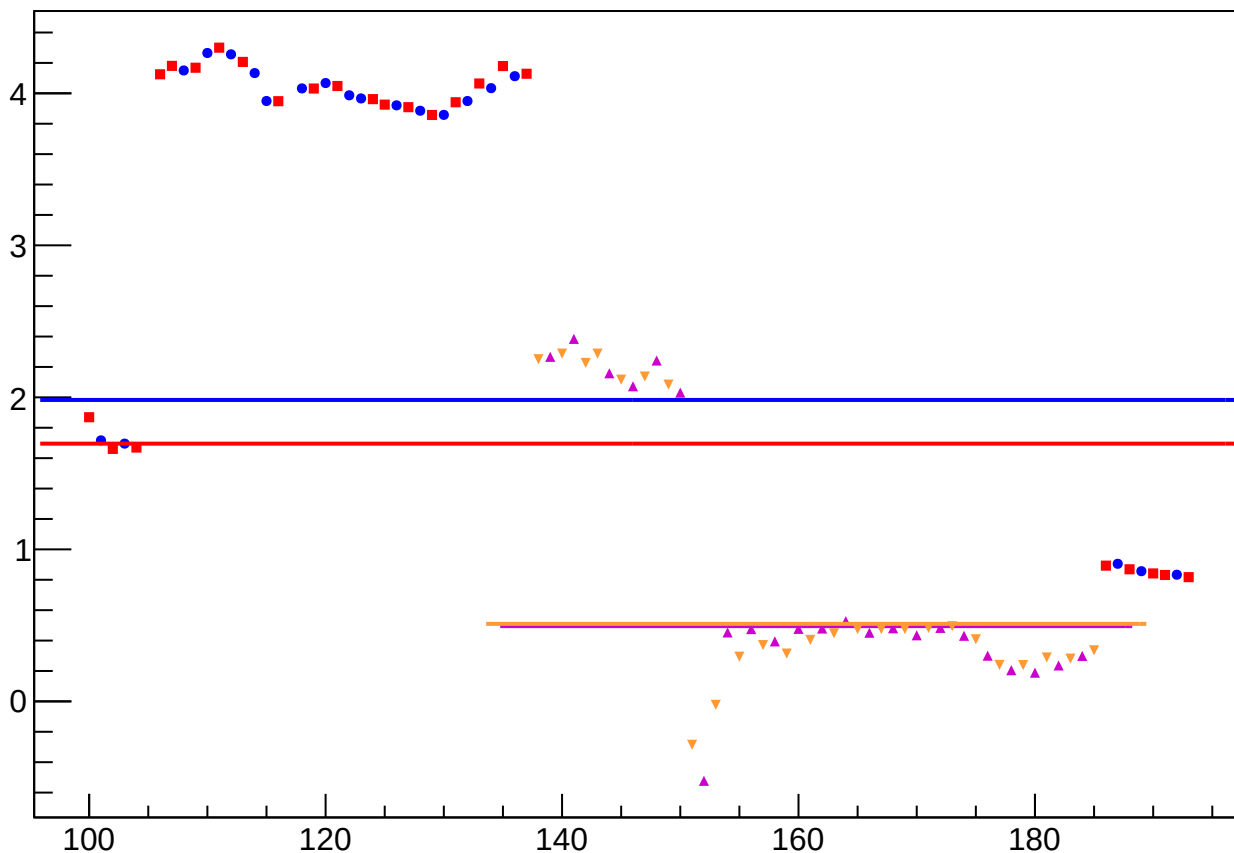
Right: 0.007+/-0.000 χ^2/NDF : 1097455.4/43

In: 0.008+/-0.000 χ^2/NDF : 1196493.6/42

Out: 0.008+/-0.000 χ^2/NDF : 1358791.4/48

All: 0.008+/-0.000 χ^2/NDF : 2555765.3/91

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.983+/-0.000 χ^2/NDF : 1143998656166.1/19

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.696+/-0.000 χ^2/NDF : 1455619394115.8/23

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

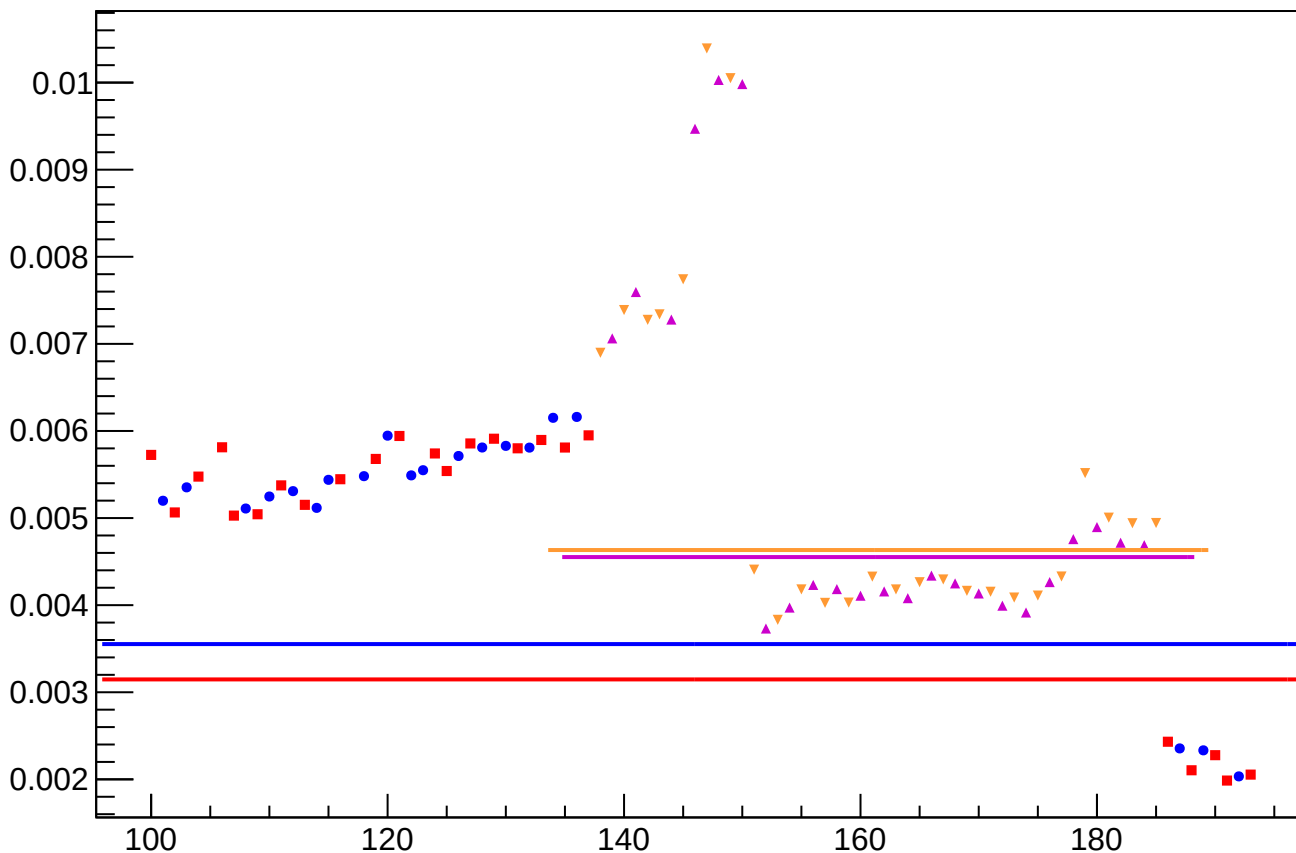
Right: 1.812+/-0.000 χ^2/NDF : 2625121139021.4/43

In: 1.101+/-0.000 χ^2/NDF : 2096153598664.8/42

Out: 1.096+/-0.000 χ^2/NDF : 2269865895456.4/48

All: 1.098+/-0.000 χ^2/NDF : 4366037985817.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3027303.7/19

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 3714302.2/23

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

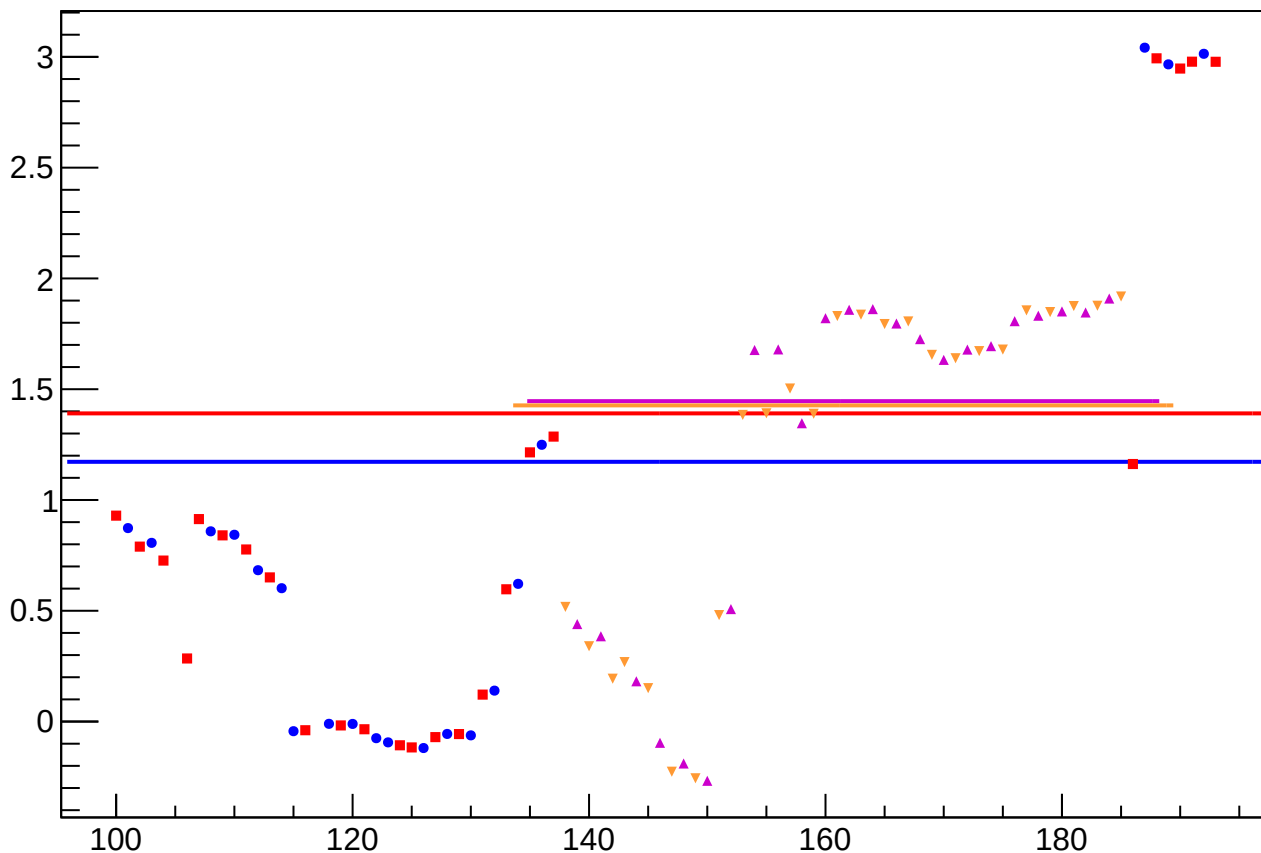
Right: 0.003+/-0.000 χ^2/NDF : 6843246.8/43

In: 0.004+/-0.000 χ^2/NDF :5881147.6/42

Out: 0.004+/-0.000 χ^2/NDF :7522300.2/48

All: 0.004+/-0.000 χ^2/NDF : 13488177.6/91

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.172+/-0.000

χ^2/NDF : 72504992322.7/19

Left: 1.436+/-0.000

χ^2/NDF : 103768857952.7/47

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

Right: 1.294+/-0.000

χ^2/NDF : 163226863692.9/43

Right Out: 1.391+/-0.000

χ^2/NDF : 89517811039.4/23

In: 1.378+/-0.000

χ^2/NDF : 128811164698.0/42

Out: 1.417+/-0.000

χ^2/NDF : 139561509648.8/48

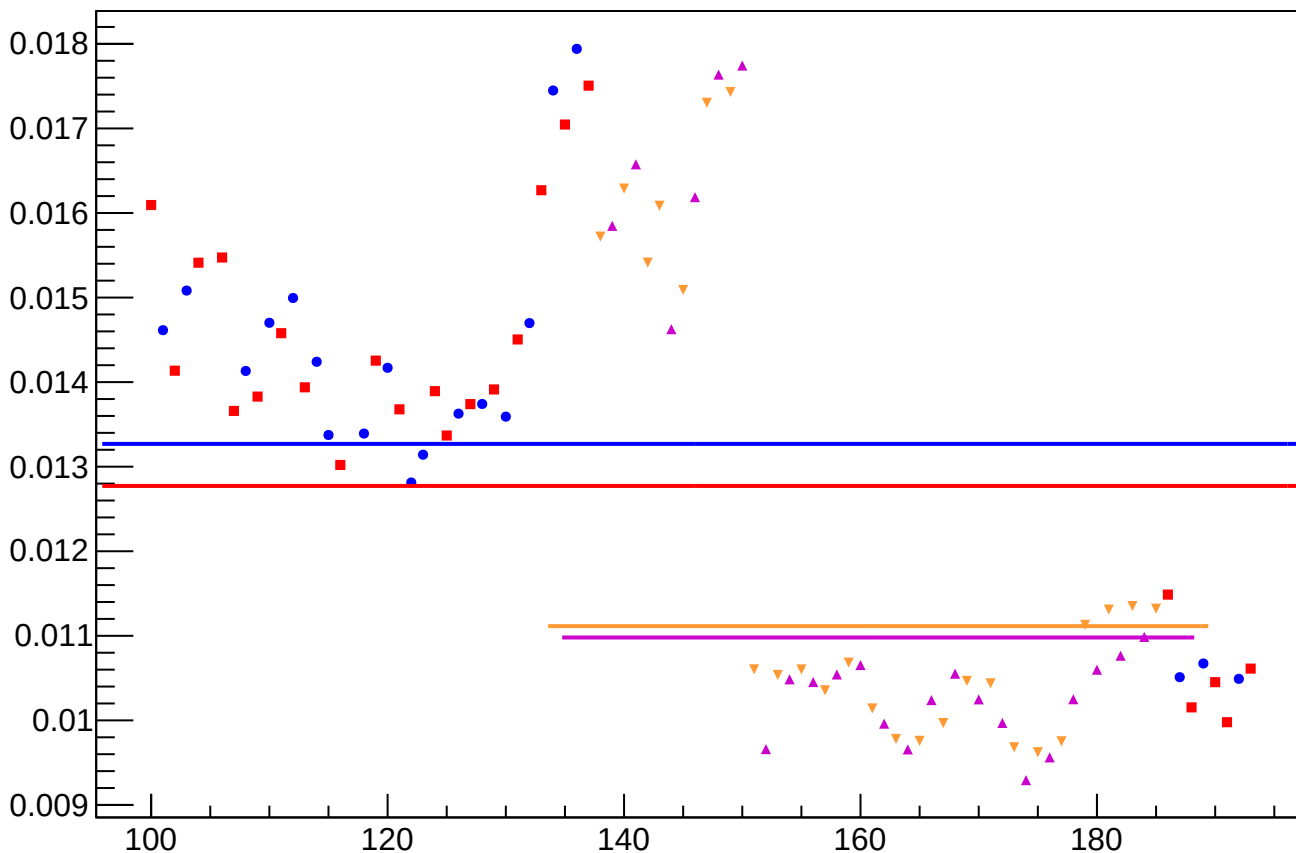
Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

All: 1.398+/-0.000

χ^2/NDF : 268513545132.3

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 398825.0/19

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 509682.8/23

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

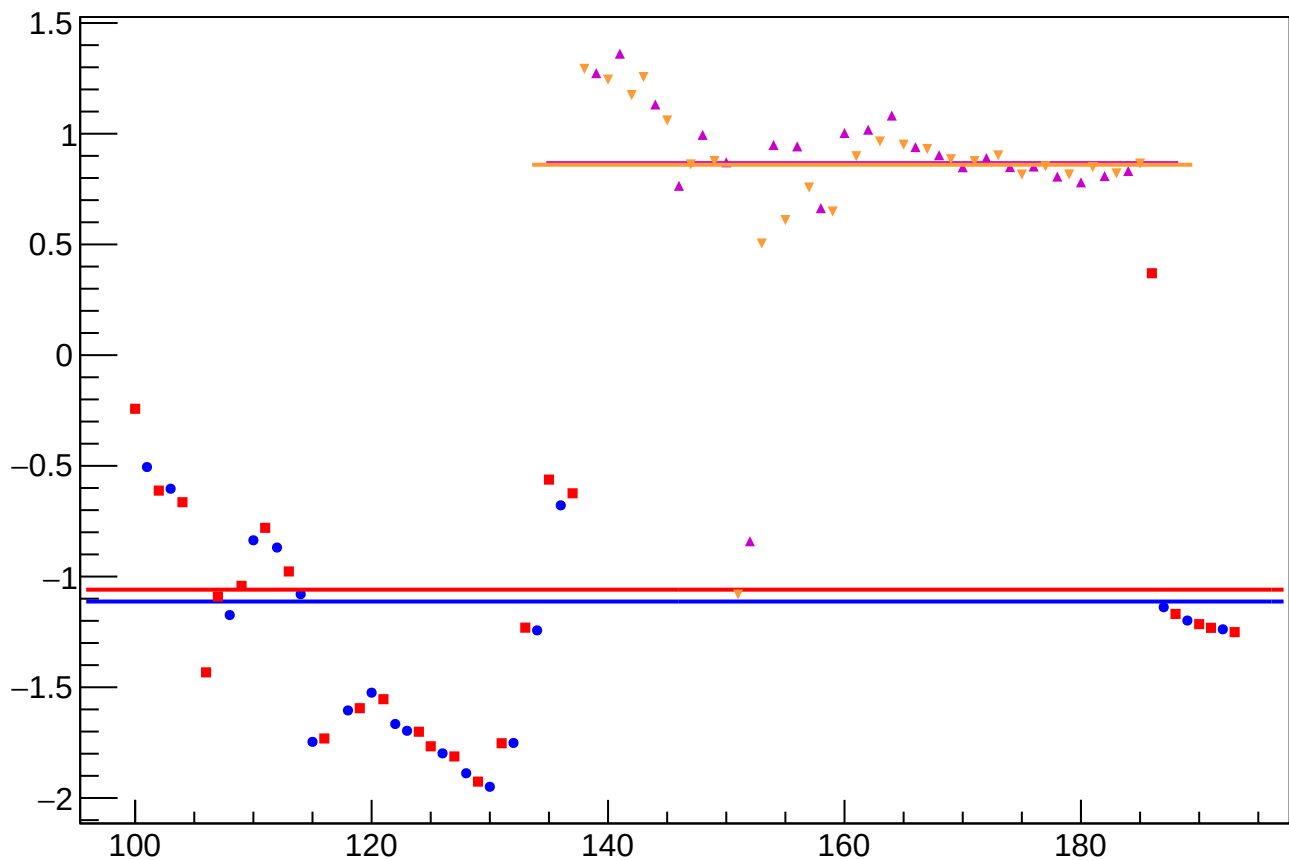
Right: 0.013+/-0.000 χ^2/NDF : 920961.8/43

In: 0.012+/-0.000 χ^2/NDF :2020667.0/42

Out: 0.012+/-0.000 χ^2/NDF :1960295.7/48

All: 0.012+/-0.000 χ^2/NDF : 3981268.3/91

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.113+/-0.000 χ^2/NDF : 56079657888.9/19

Left Out: 0.860+/-0.000 χ^2/NDF : 126335891175.4/24

Right Out: -1.059+/-0.000 χ^2/NDF : 63607676695.0/23

Left In: 0.867+/-0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

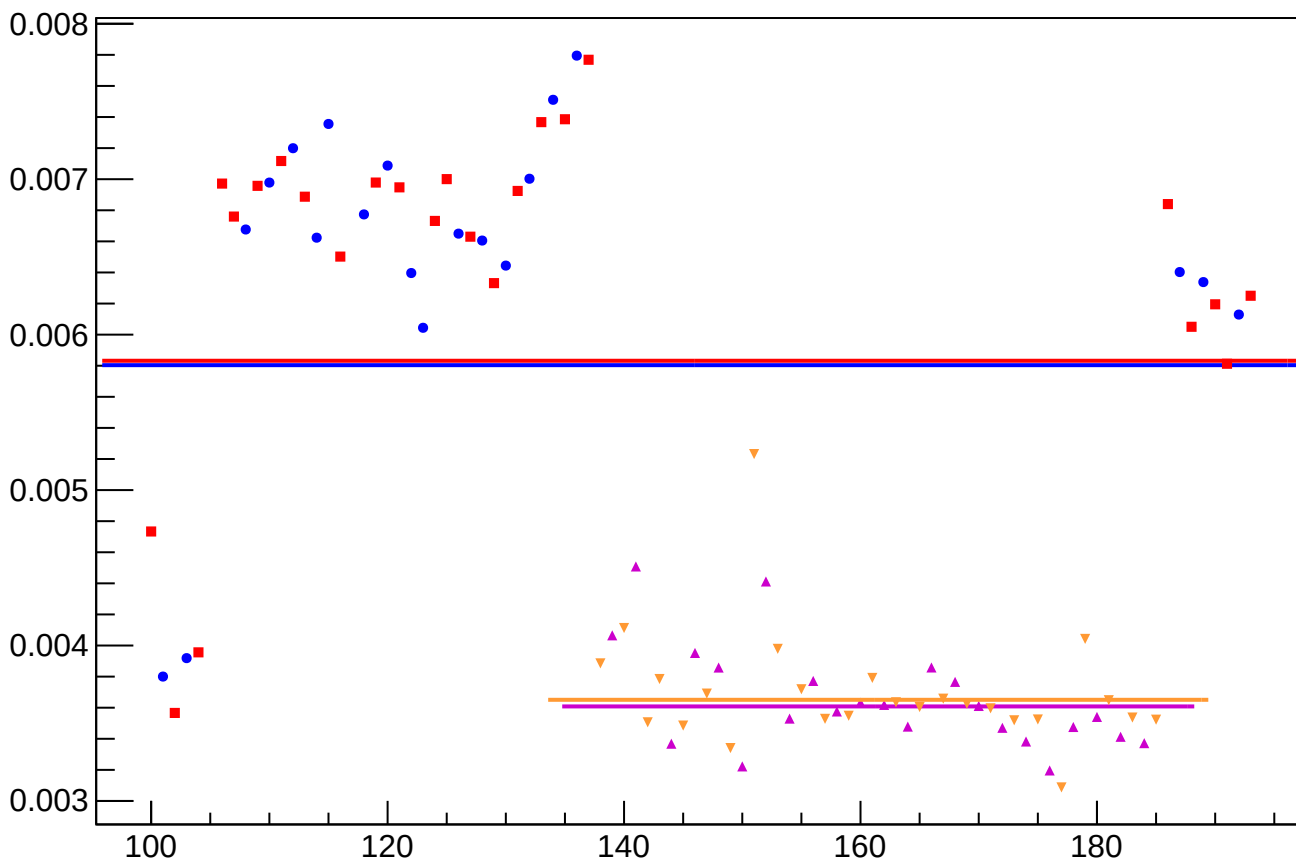
Right: -1.084+/-0.000 χ^2/NDF : 120024607091.3/43

In: 0.563+/-0.000 χ^2/NDF : 930095181215.1/42

Out: 0.536+/-0.000 χ^2/NDF : 968033692419.5/48

All: 0.549+/-0.000 χ^2/NDF : 1898646757476.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 854750.0/19

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 953317.4/23

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 467360.2/47

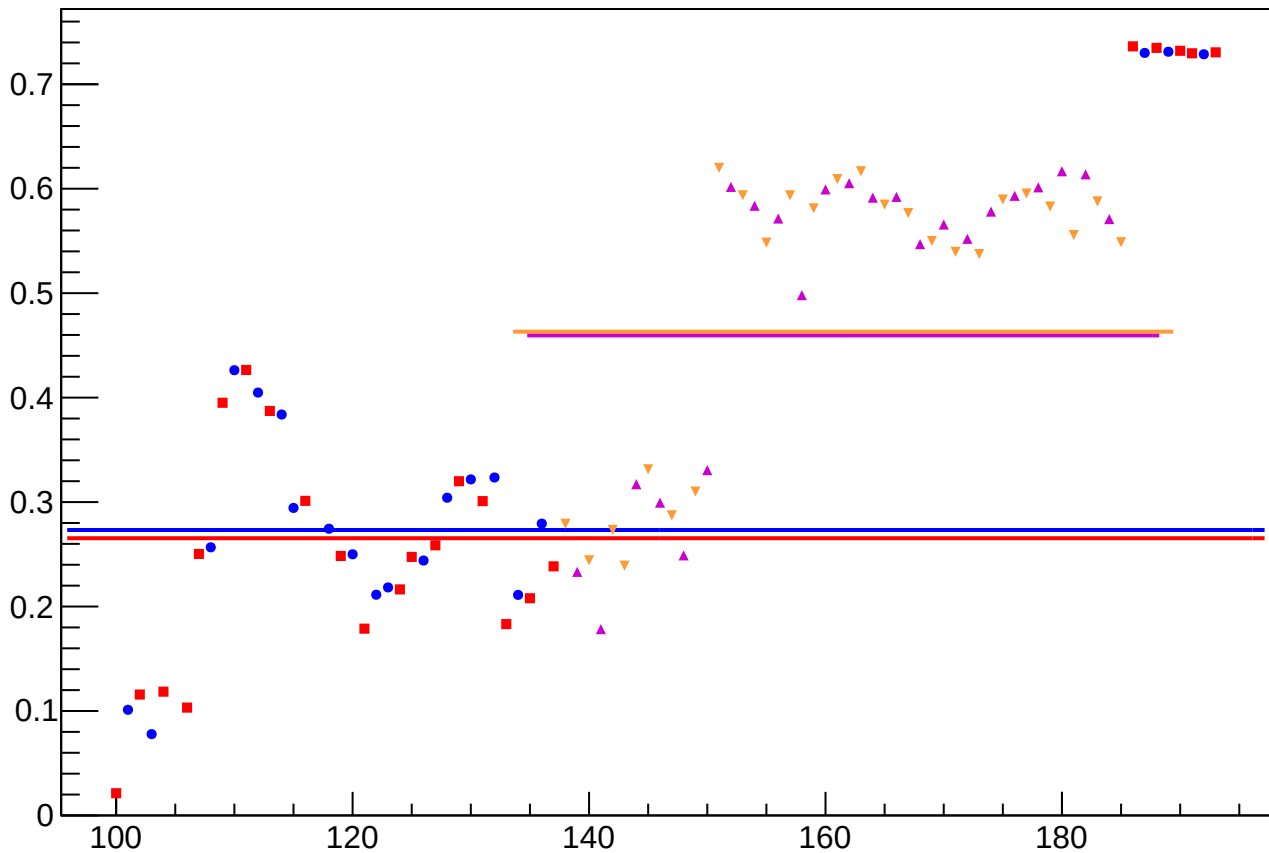
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 1808256.6/43

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2870477.5/42

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:3200940.5/48

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 6079230.3/91

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.273+/-0.000

χ^2/NDF : 41788217690.3/19

Left: 0.461+/-0.000

χ^2/NDF : 207093695005.5/47

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

Right: 0.269+/-0.000

χ^2/NDF : 105521911092.9/43

Right Out: 0.265+/-0.000

χ^2/NDF : 63650565124.6/23

In: 0.390+/-0.000

χ^2/NDF : 201164269734.3/42

Out: 0.387+/-0.000

χ^2/NDF : 235365620865.0/48

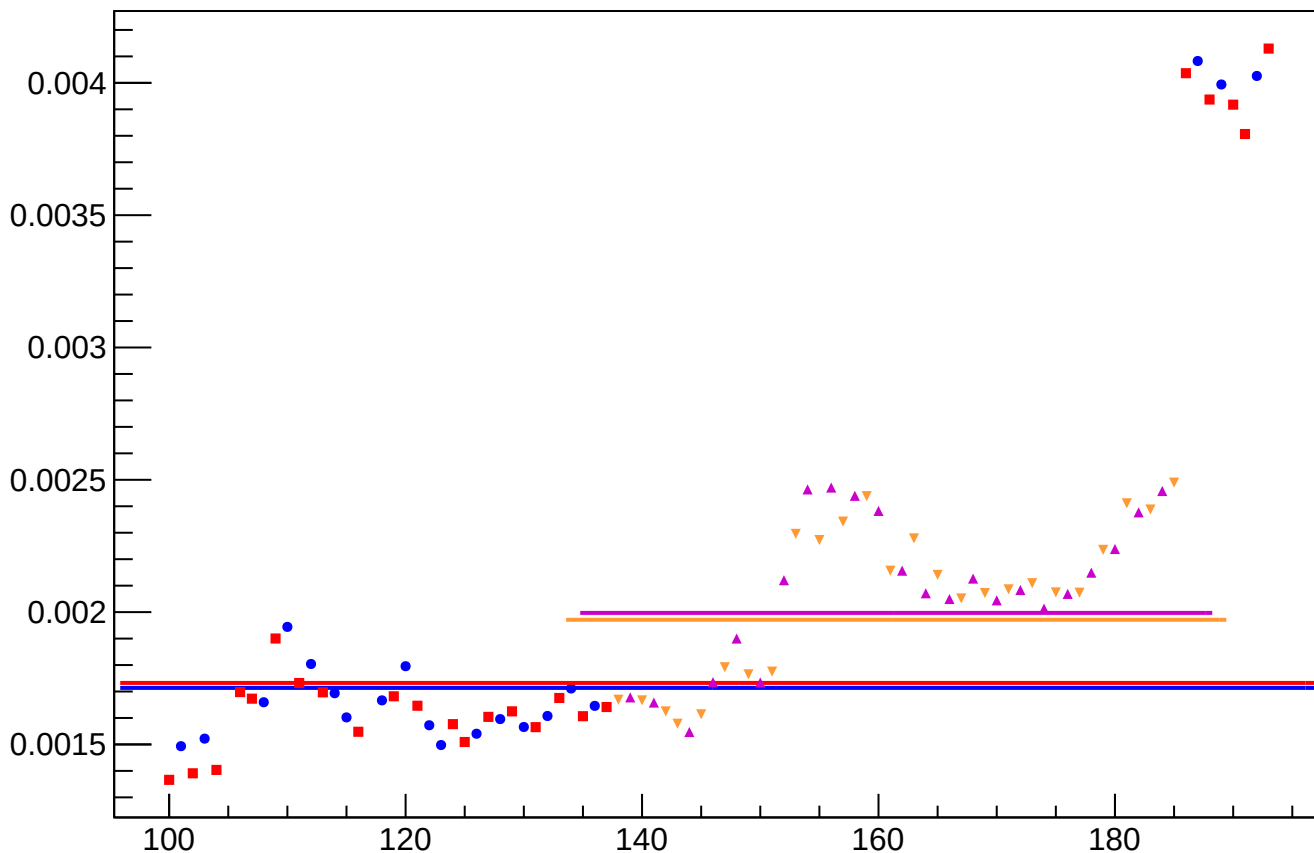
Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.388+/-0.000

χ^2/NDF : 436552989027.4

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1099956.3/19

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 1837355.0/23

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

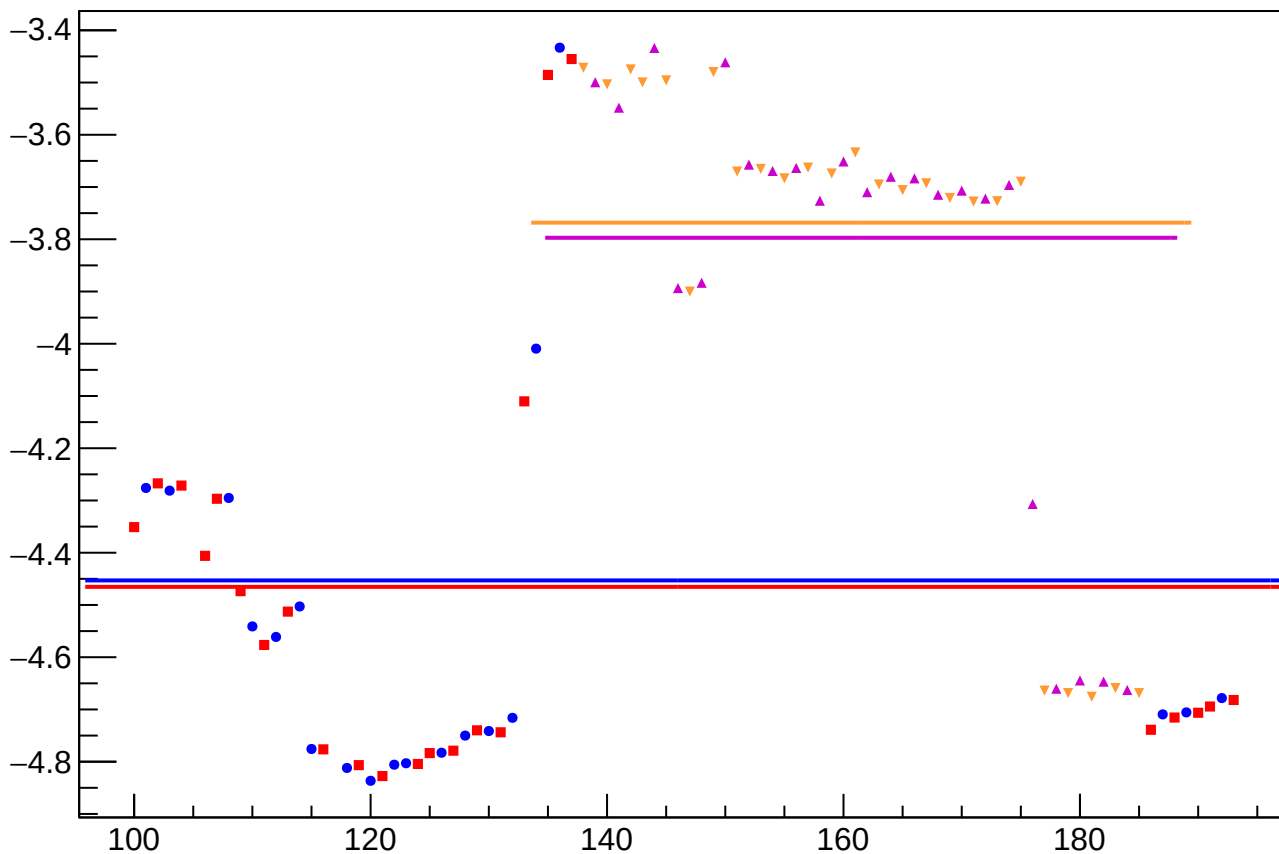
Right: 0.002+/-0.000 χ^2/NDF : 2938265.7/43

In: 0.002+/-0.000 χ^2/NDF : 2020155.2/42

Out: 0.002+/-0.000 χ^2/NDF : 2769107.3/48

All: 0.002+/-0.000 χ^2/NDF : 4790182.0/91

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.453+/-0.000 χ^2/NDF : 400916719127.5/19

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.465+/-0.000 χ^2/NDF : 341950690502.6/23

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

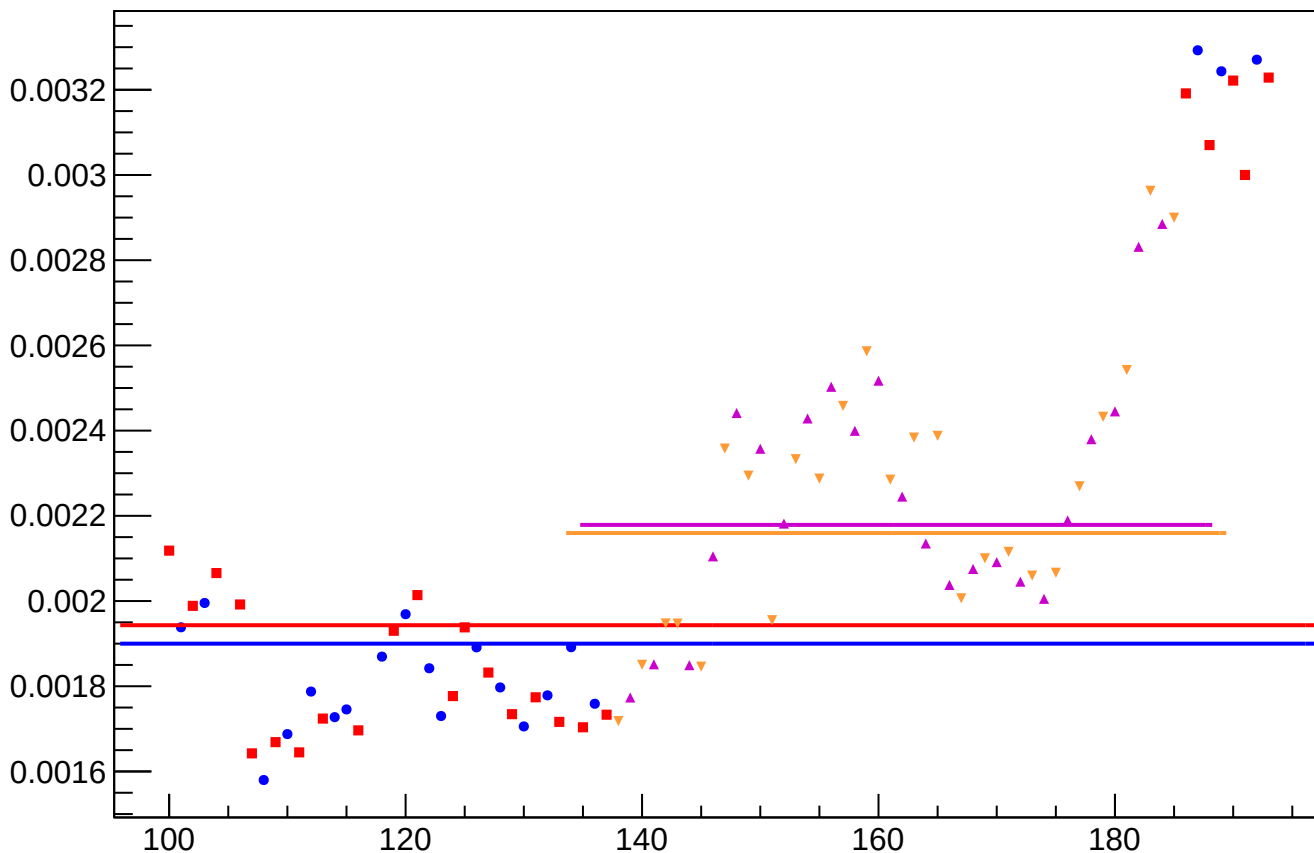
Right: -4.459+/-0.000 χ^2/NDF : 743037499780.0/43

In: -4.043+/-0.000 χ^2/NDF : 1418935199079.2/42

Out: -4.036+/-0.000 χ^2/NDF : 1570912253513.6/48

All: -4.040+/-0.000 χ^2/NDF : 2989998398032

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 606430.4/19

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 916544.1/23

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

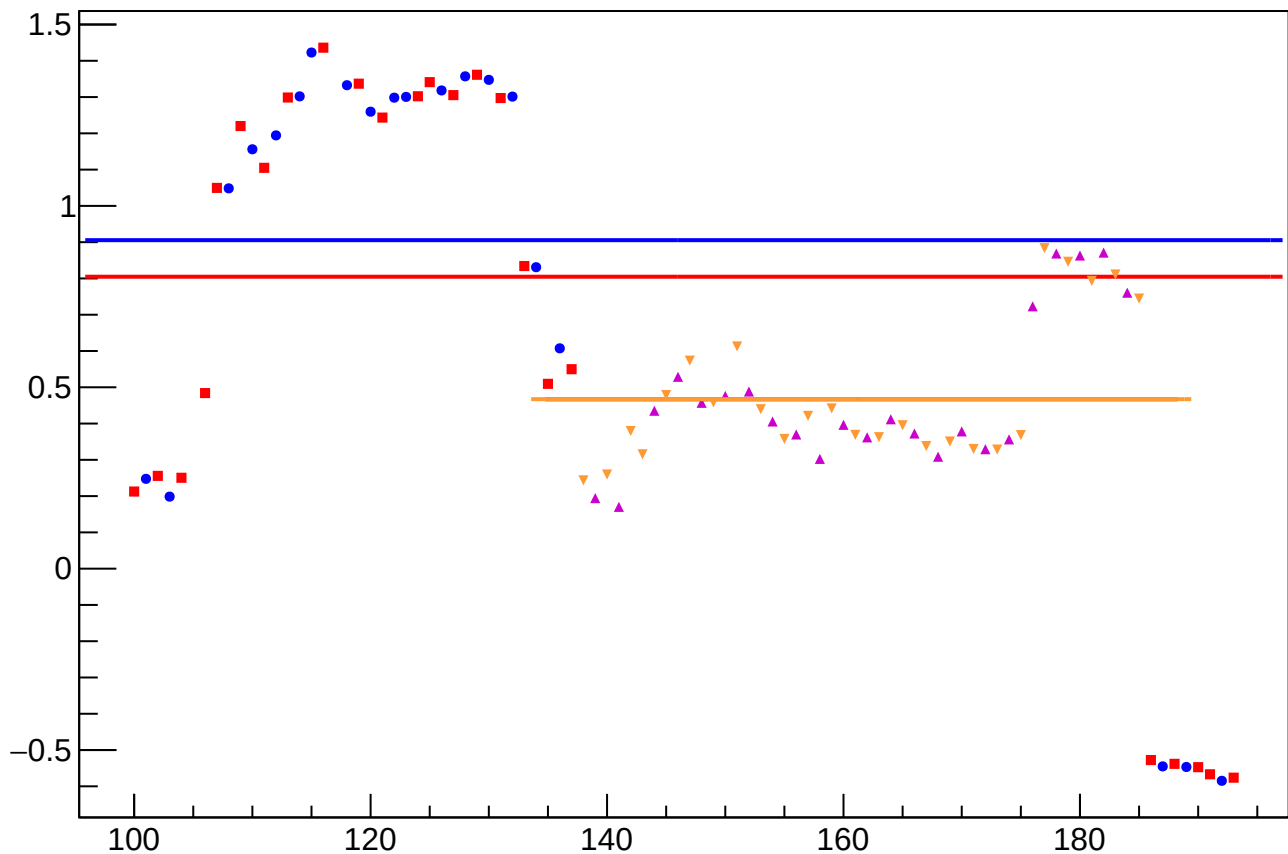
Right: 0.002+/-0.000 χ^2/NDF : 1527197.1/43

In: 0.002+/-0.000 χ^2/NDF :1276797.5/42

Out: 0.002+/-0.000 χ^2/NDF :1601600.3/48

All: 0.002+/-0.000 χ^2/NDF : 2878431.4/91

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.906 $\pm$ 0.000 χ^2 /NDF: 52266050507.9/19

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.805 $\pm$ 0.000 χ^2 /NDF: 72668957737.2/23

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 8036741308.0/22

Left: 0.467 $\pm$ 0.000 χ^2 /NDF: 15396100488.4/47

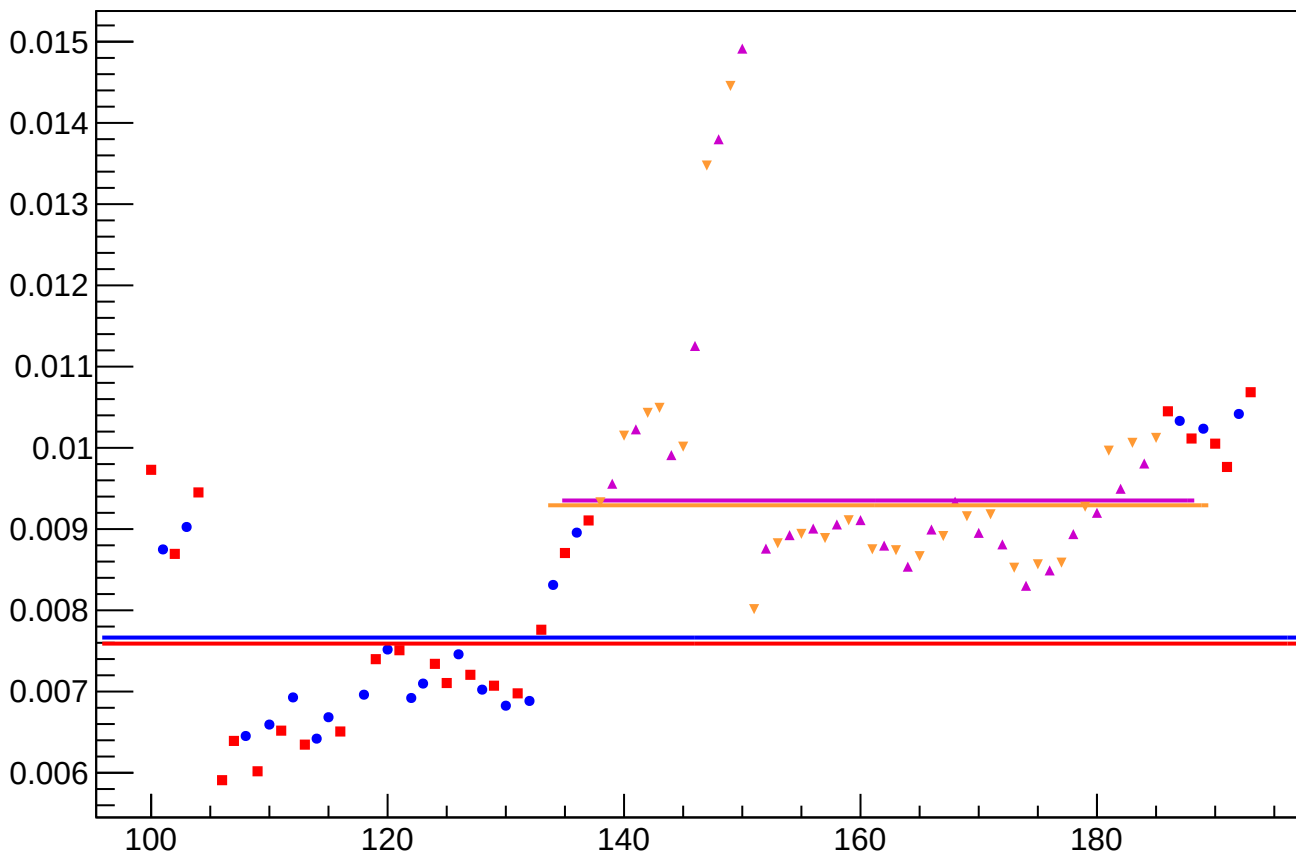
Right: 0.851 $\pm$ 0.000 χ^2 /NDF: 125685918217.0/43

In: 0.648 $\pm$ 0.000 χ^2 /NDF: 75713268656.8/42

Out: 0.615 $\pm$ 0.000 χ^2 /NDF: 90422652702.0/48

All: 0.630 $\pm$ 0.000 χ^2 /NDF: 166327179853.4

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 411822.5/19

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 675046.0/23

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

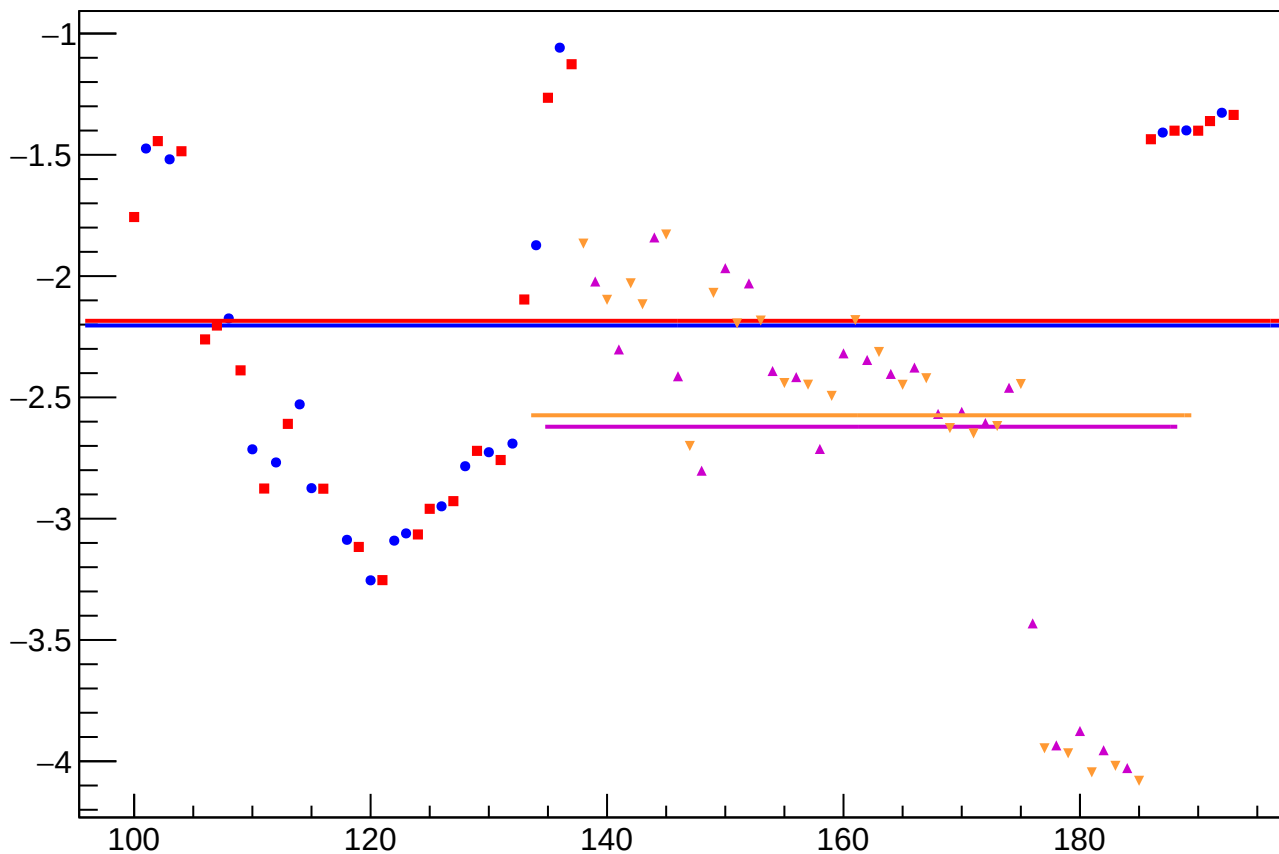
Right: 0.008+/-0.000 χ^2/NDF : 1087687.8/43

In: 0.009+/-0.000 χ^2/NDF :1425290.4/42

Out: 0.009+/-0.000 χ^2/NDF :1732134.7/48

All: 0.009+/-0.000 χ^2/NDF : 3161419.7/91

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.204 $\pm$ 0.000 χ^2 /NDF: 86746082050.4/19

Left Out: -2.574 $\pm$ 0.000 χ^2 /NDF: 99176112704.9/24

Right Out: -2.184 $\pm$ 0.000 χ^2 /NDF: 86140987873.0/23

Left In: -2.621 $\pm$ 0.000 χ^2 /NDF: 80862402796.4/22

Left: -2.597 $\pm$ 0.000 χ^2 /NDF: 180296288698.4/47

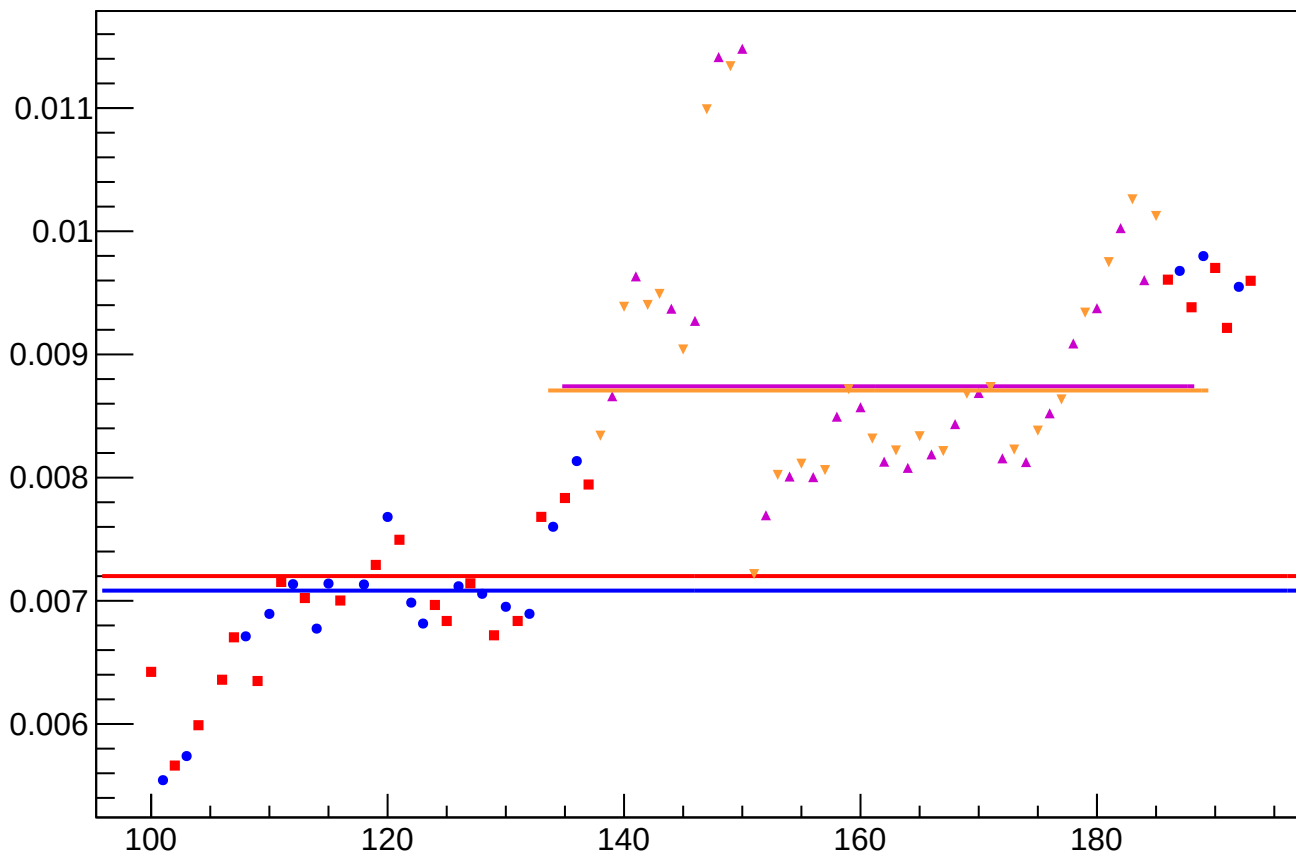
Right: -2.193 $\pm$ 0.000 χ^2 /NDF: 172918605399.3/43

In: -2.447 $\pm$ 0.000 χ^2 /NDF: 183864194903.5/42

Out: -2.406 $\pm$ 0.000 χ^2 /NDF: 201001293287.4/48

All: -2.425 $\pm$ 0.000 χ^2 /NDF: 385213326763.3

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 404682.8/19

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 482447.3/23

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

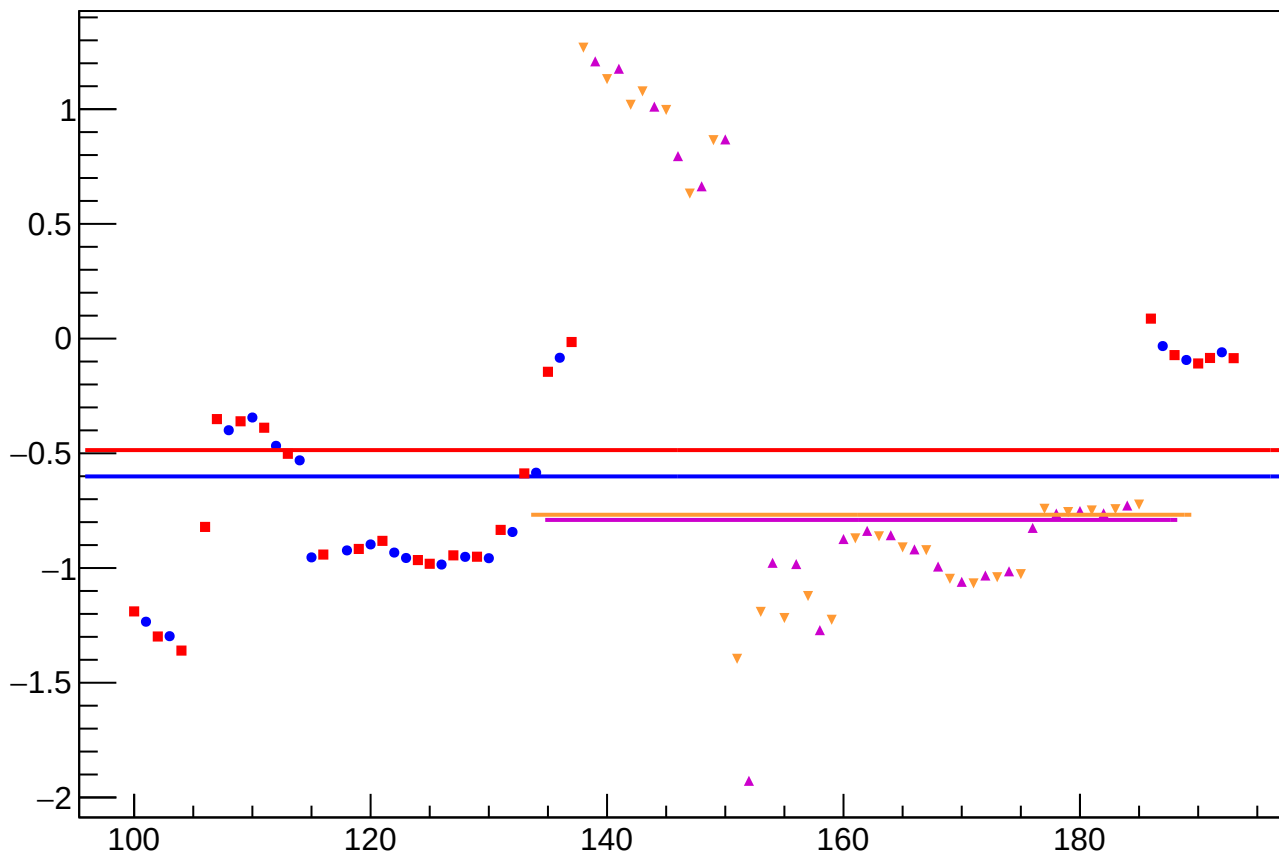
Right: 0.007+/-0.000 χ^2/NDF : 889501.9/43

In: 0.008+/-0.000 χ^2/NDF :1271804.7/42

Out: 0.008+/-0.000 χ^2/NDF :1321360.3/48

All: 0.008+/-0.000 χ^2/NDF : 2593179.6/91

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.601 $\pm$ 0.000 χ^2 /NDF: 16574858828.7/19

Left Out: -0.768 $\pm$ 0.000 χ^2 /NDF:120774855982.9/24

Right Out: -0.486 $\pm$ 0.000 χ^2 /NDF: 21507239242.2/23

Left In: -0.790 $\pm$ 0.000 χ^2 /NDF:123452478408.2/22

Left: -0.779 $\pm$ 0.000 χ^2 /NDF: 244297726249.8/47

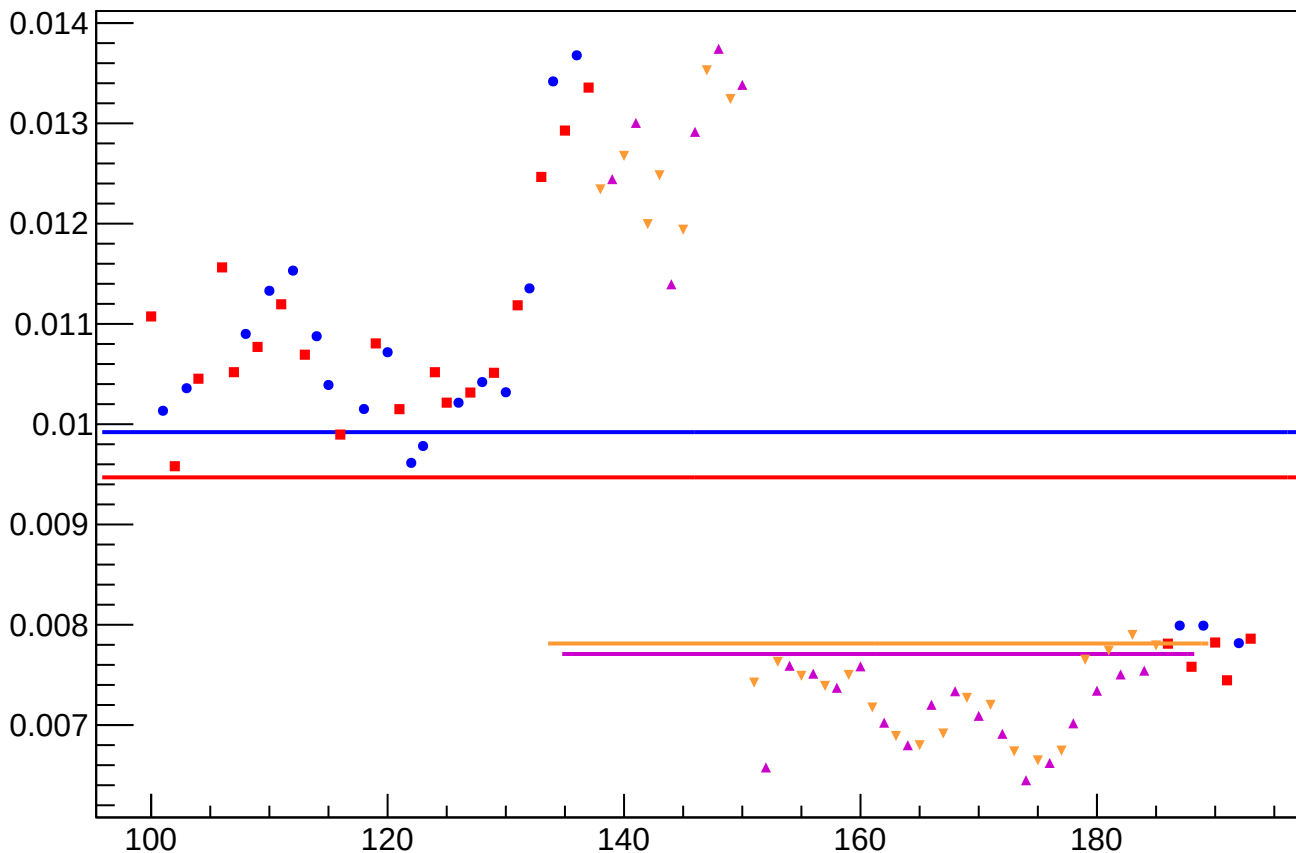
Right: -0.536 $\pm$ 0.000 χ^2 /NDF: 38675432197.6/43

In: -0.747 $\pm$ 0.000 χ^2 /NDF:142258693895.1/42

Out: -0.693 $\pm$ 0.000 χ^2 /NDF:148254315084.7/48

All: -0.719 $\pm$ 0.000 χ^2 /NDF: 291059615441.8

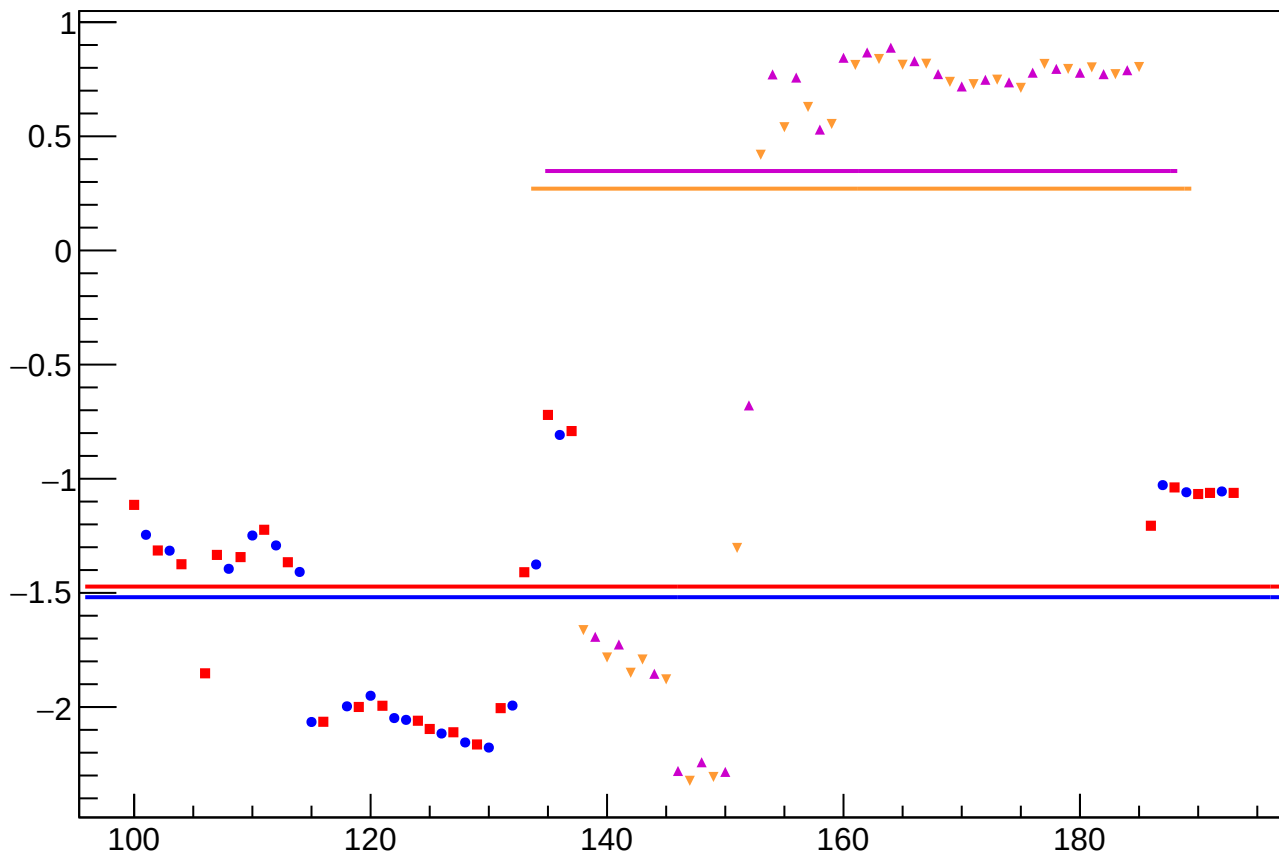
yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 412402.6/19
 Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24
 Right Out: 0.009+/-0.000 χ^2/NDF : 554666.5/23
 Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47
 Right: 0.010+/-0.000 χ^2/NDF : 985395.6/43
 In: 0.008+/-0.000 χ^2/NDF :2766549.1/42
 Out: 0.008+/-0.000 χ^2/NDF :2673534.0/48
 All: 0.008+/-0.000 χ^2/NDF : 5440741.9/91

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.519 ± 0.000 $\chi^2/\text{NDF}: 168583980188.5/19$

Left Out: 0.271 ± 0.000 $\chi^2/\text{NDF}: 2583233987355.9/24$

Right Out: -1.472 ± 0.000 $\chi^2/\text{NDF}: 158536248010.4/23$

Left In: 0.348 ± 0.000 $\chi^2/\text{NDF}: 2274004426513.8/22$

Left: 0.308 ± 0.000 $\chi^2/\text{NDF}: 4864843200778.2/47$

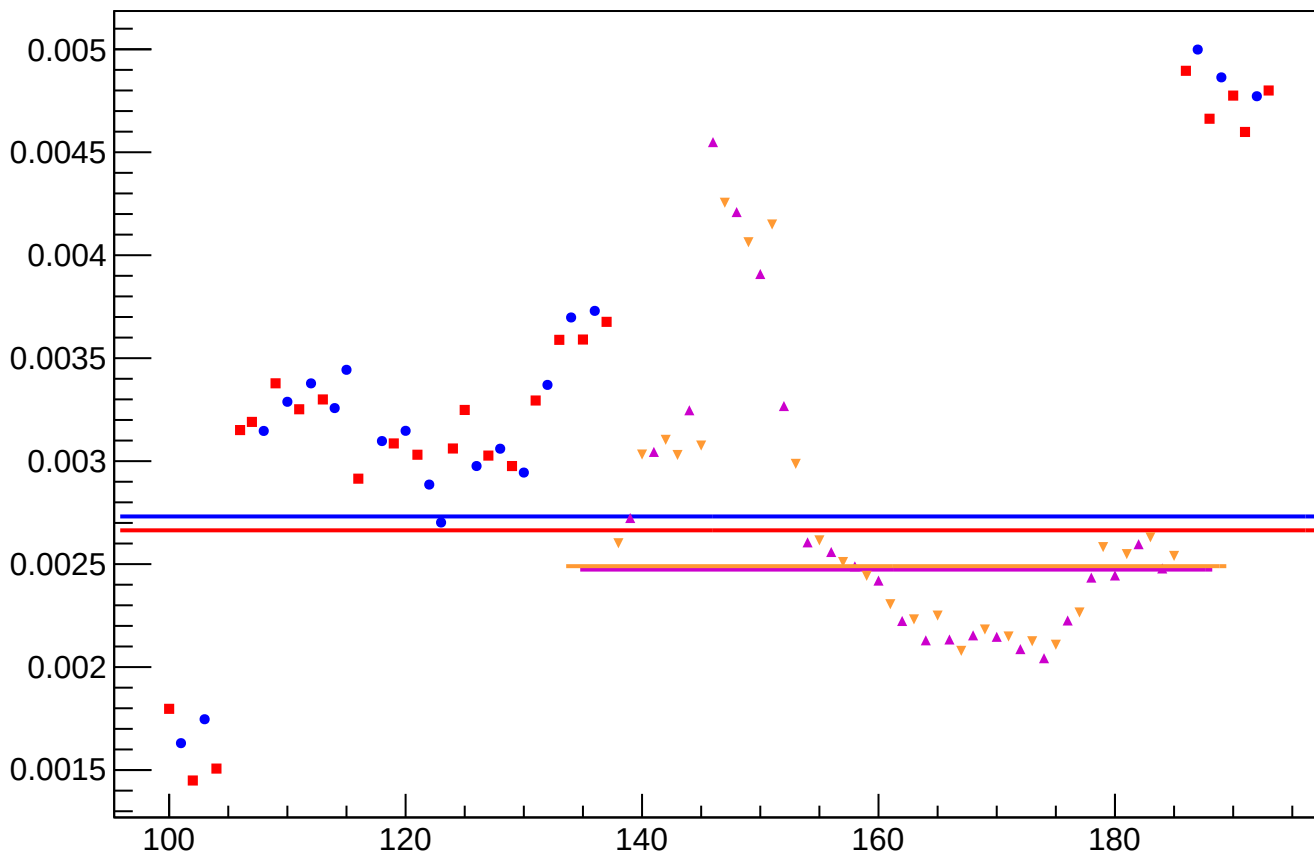
Right: -1.494 ± 0.000 $\chi^2/\text{NDF}: 328187542520.0/43$

In: -0.154 ± 0.000 $\chi^2/\text{NDF}: 4770168849410.9/42$

Out: -0.237 ± 0.000 $\chi^2/\text{NDF}: 5062820496182.4/48$

All: -0.197 ± 0.000 $\chi^2/\text{NDF}: 9845131268795$

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1613873.7/19

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 2575595.6/23

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

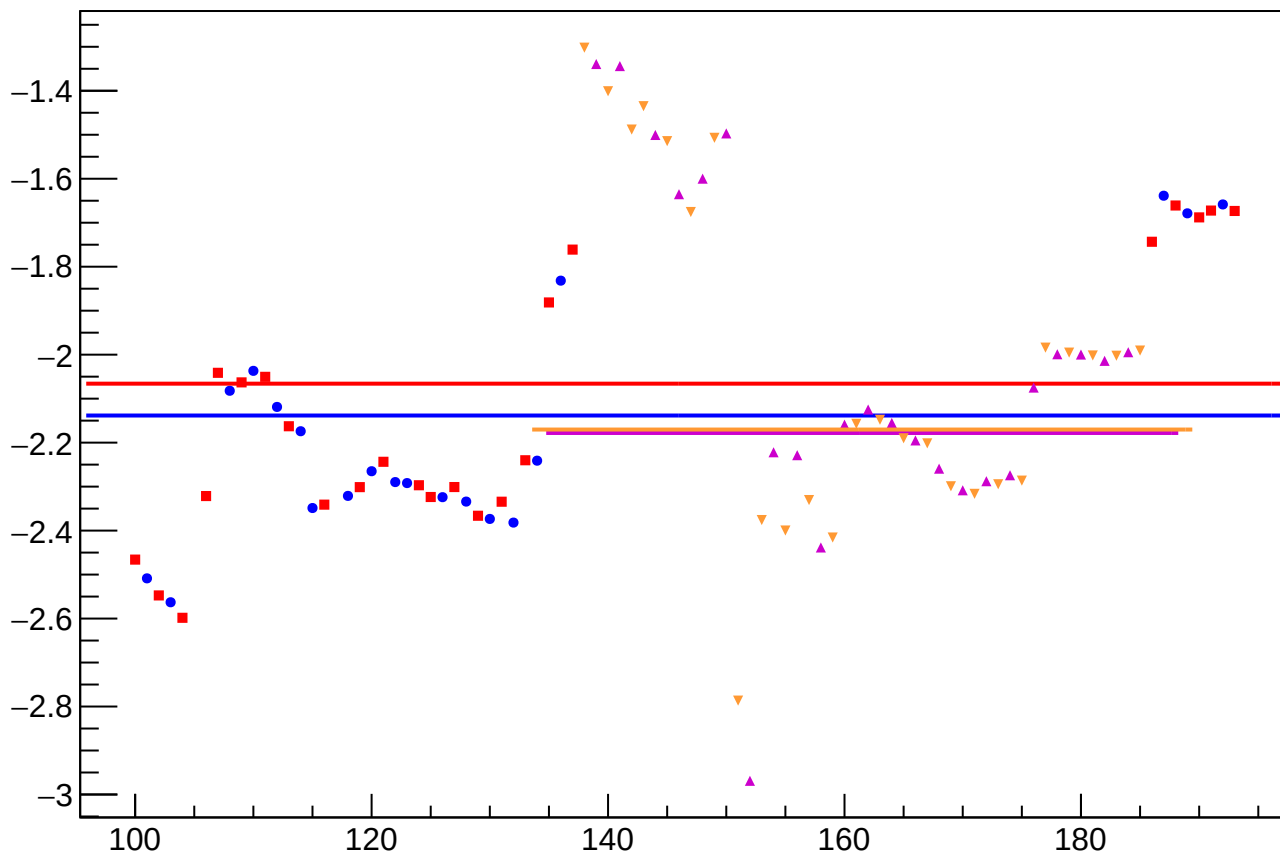
Right: 0.003+/-0.000 χ^2/NDF : 4193962.7/43

In: 0.003+/-0.000 χ^2/NDF :2838100.2/42

Out: 0.003+/-0.000 χ^2/NDF :3692146.2/48

All: 0.003+/-0.000 χ^2/NDF : 6530262.1/91

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.138+/-0.000 χ^2/NDF : 20905126031.8/19

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -2.066+/-0.000 χ^2/NDF : 27596648165.9/23

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

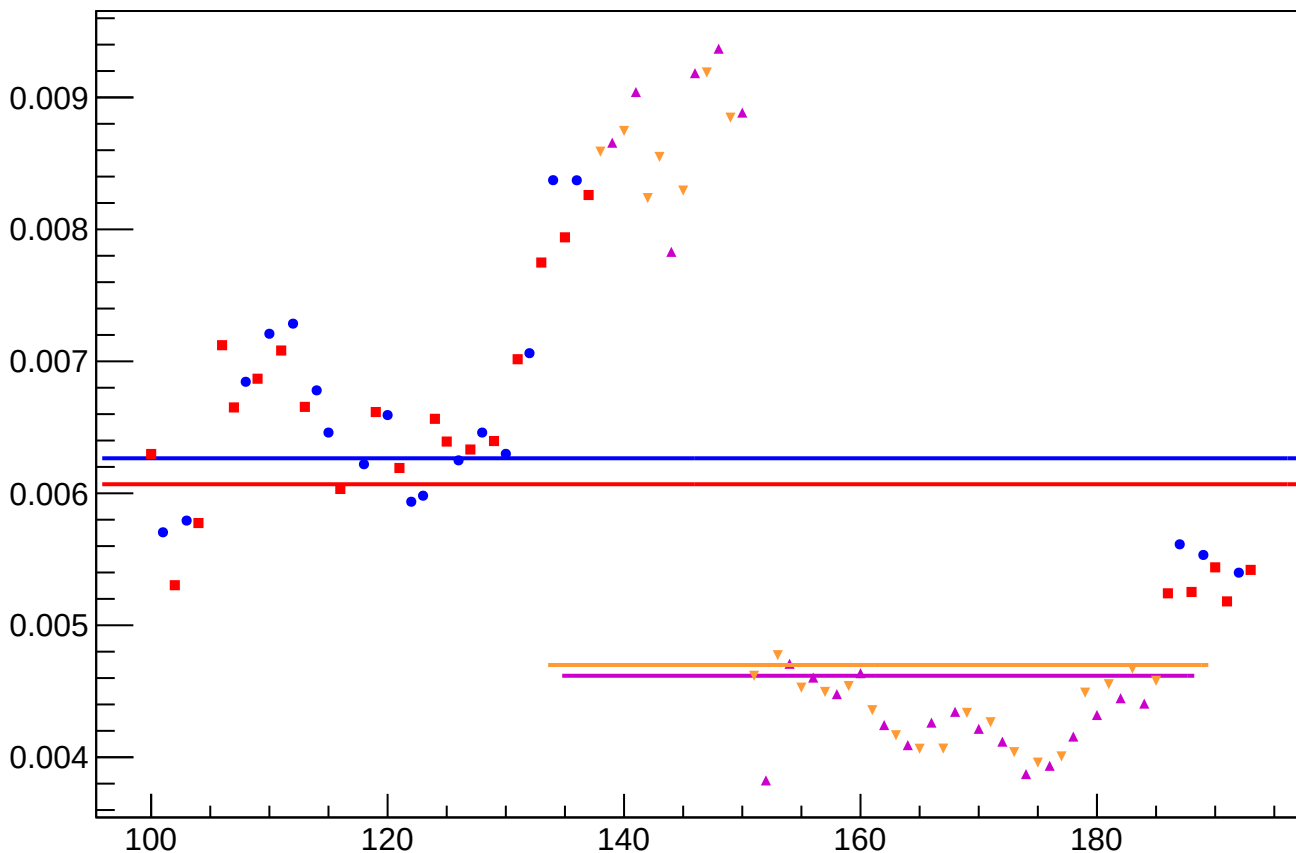
Right: -2.098+/-0.000 χ^2/NDF : 49087047396.4/43

In: -2.169+/-0.000 χ^2/NDF : 94555779079.5/42

Out: -2.144+/-0.000 χ^2/NDF : 89611502875.6/48

All: -2.156+/-0.000 χ^2/NDF : 184476191059.2

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 262928.3/19

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 327233.1/23

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

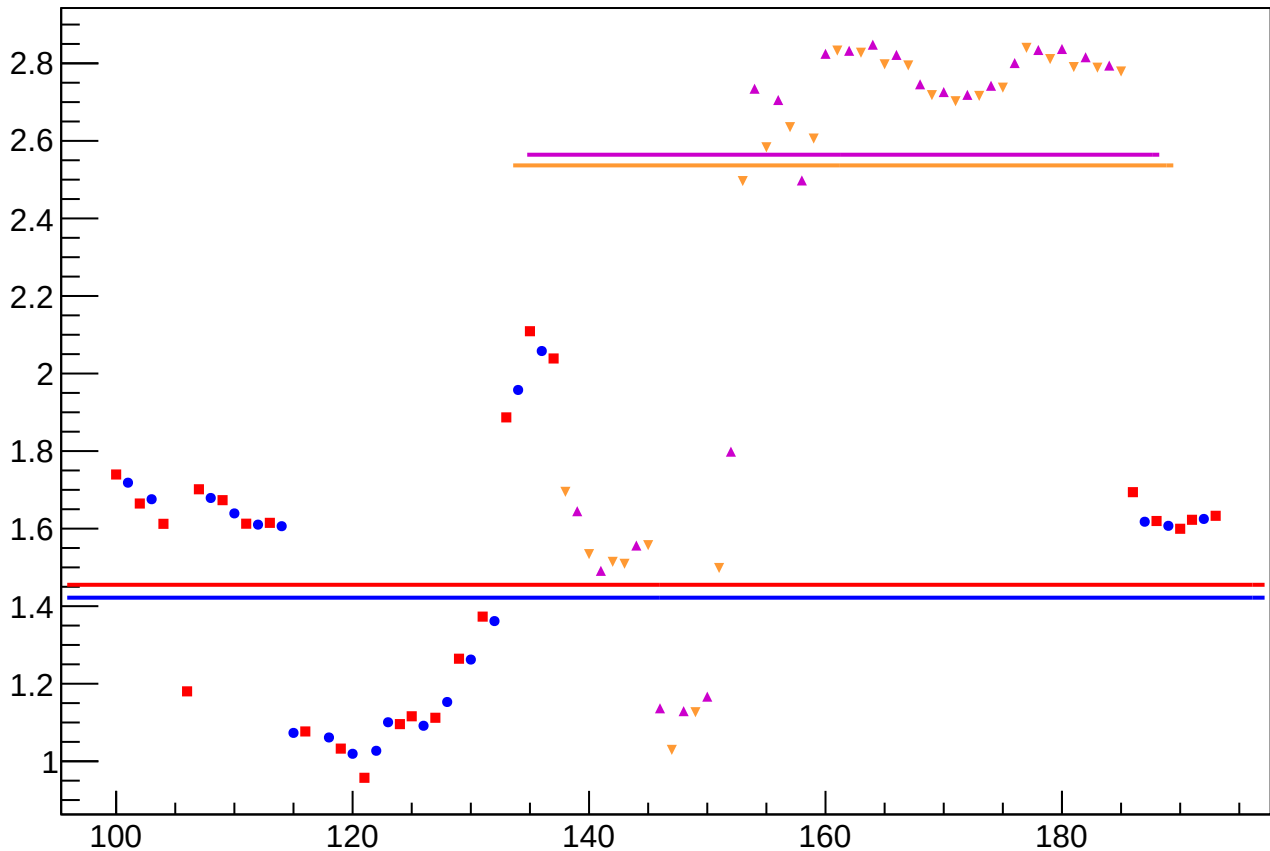
Right: 0.006+/-0.000 χ^2/NDF : 598800.3/43

In: 0.005+/-0.000 χ^2/NDF :3487300.1/42

Out: 0.005+/-0.000 χ^2/NDF :3352848.2/48

All: 0.005+/-0.000 χ^2/NDF : 6844624.3/91

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000 χ^2/NDF : 173947833385.9/19

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.455+/-0.000 χ^2/NDF : 176240301336.6/23

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

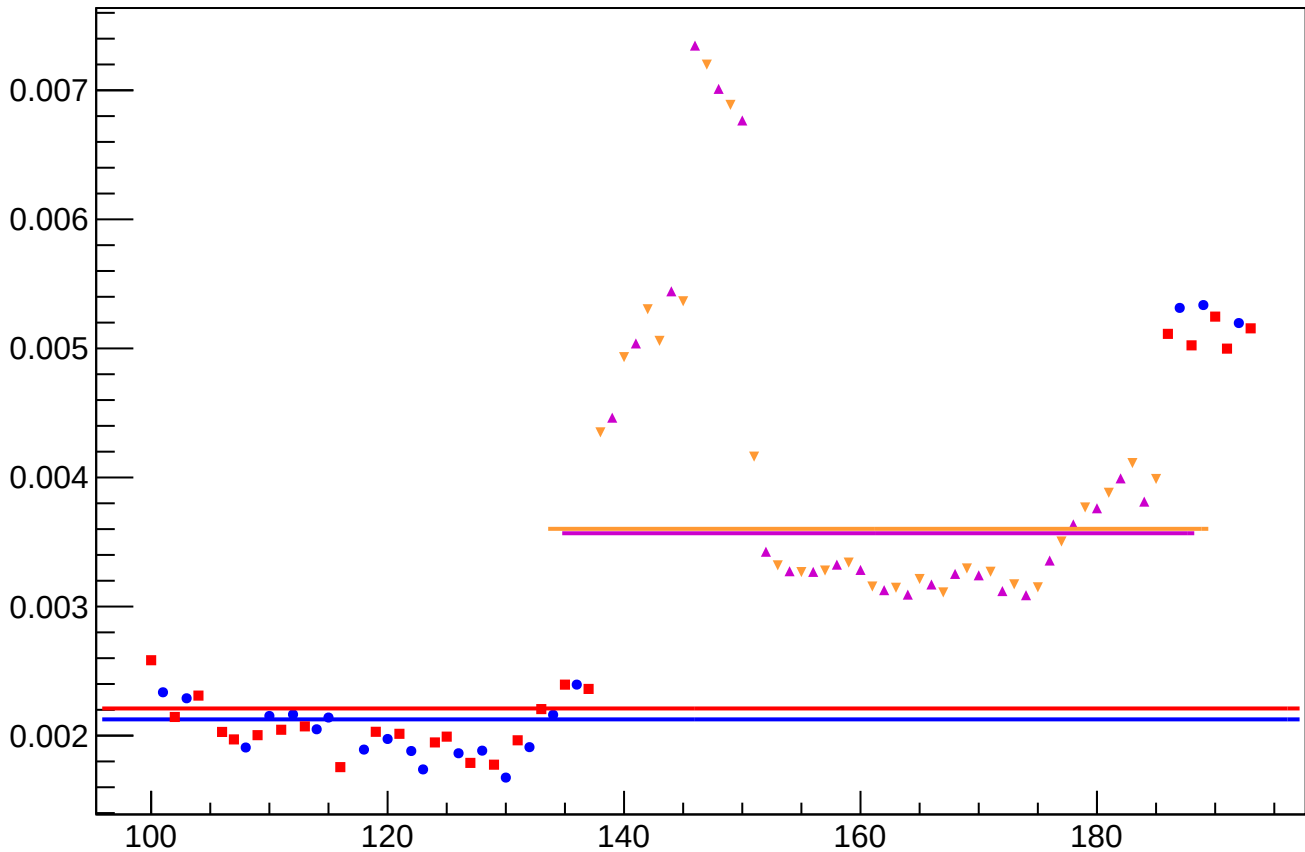
Right: 1.439+/-0.000 χ^2/NDF : 351083183410.1/43

In: 1.922+/-0.000 χ^2/NDF : 1333282687840.9/42

Out: 1.926+/-0.000 χ^2/NDF : 1296857588676.2/48

All: 1.924+/-0.000 χ^2/NDF : 2630157734706

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1261449.1/19

Left Out: 0.004+/-0.000 χ^2/NDF : 1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 1862134.1/23

Left In: 0.004+/-0.000 χ^2/NDF : 1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

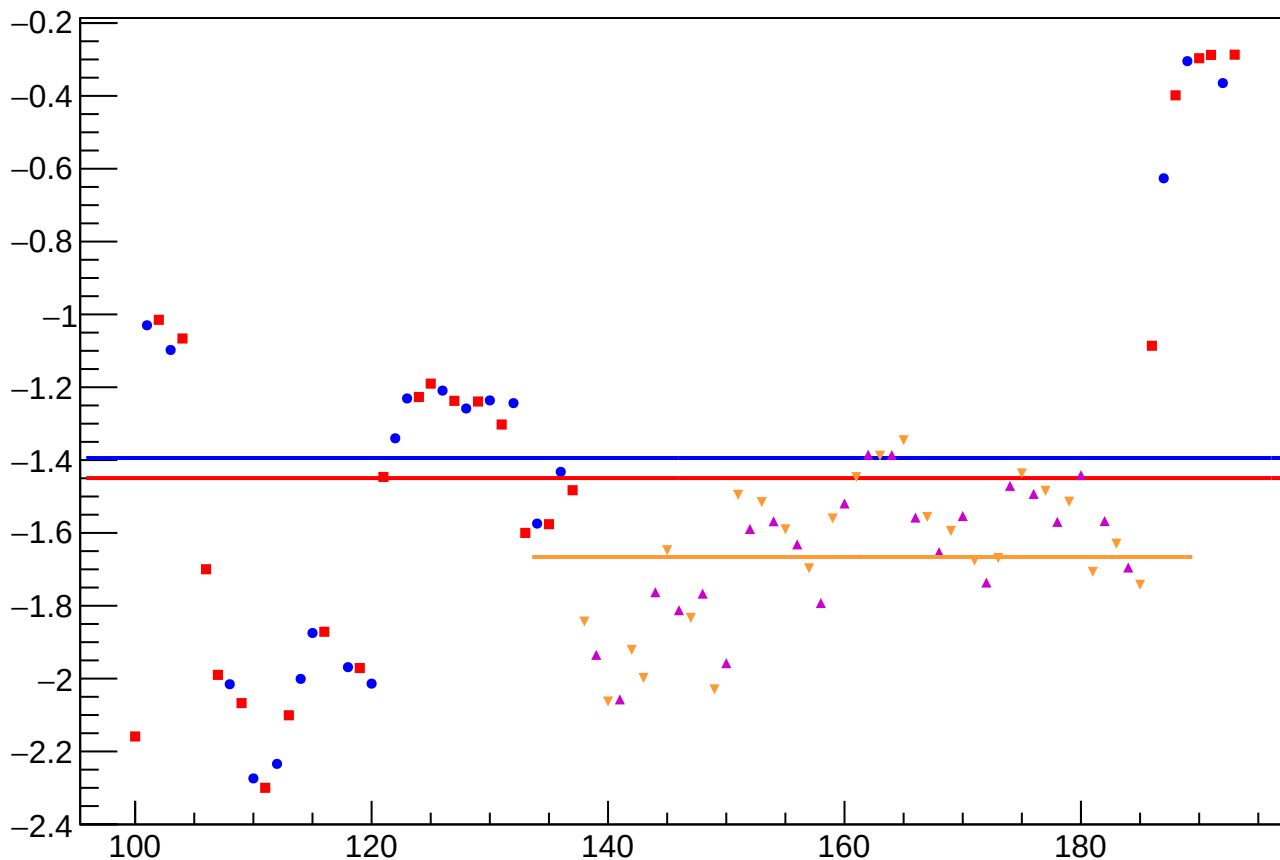
Right: 0.002+/-0.000 χ^2/NDF : 3135154.3/43

In: 0.003+/-0.000 χ^2/NDF : 5689609.7/42

Out: 0.003+/-0.000 χ^2/NDF : 6091517.8/48

All: 0.003+/-0.000 χ^2/NDF : 11790971.3/91

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.394+/-0.000 χ^2/NDF : 38491765637.6/19

Left Out: -1.666+/-0.000 χ^2/NDF : 18325162131.2/24

Right Out: -1.449+/-0.000 χ^2/NDF : 60061426410.2/23

Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

Left: -1.666+/-0.000 χ^2/NDF : 32617732948.1/47

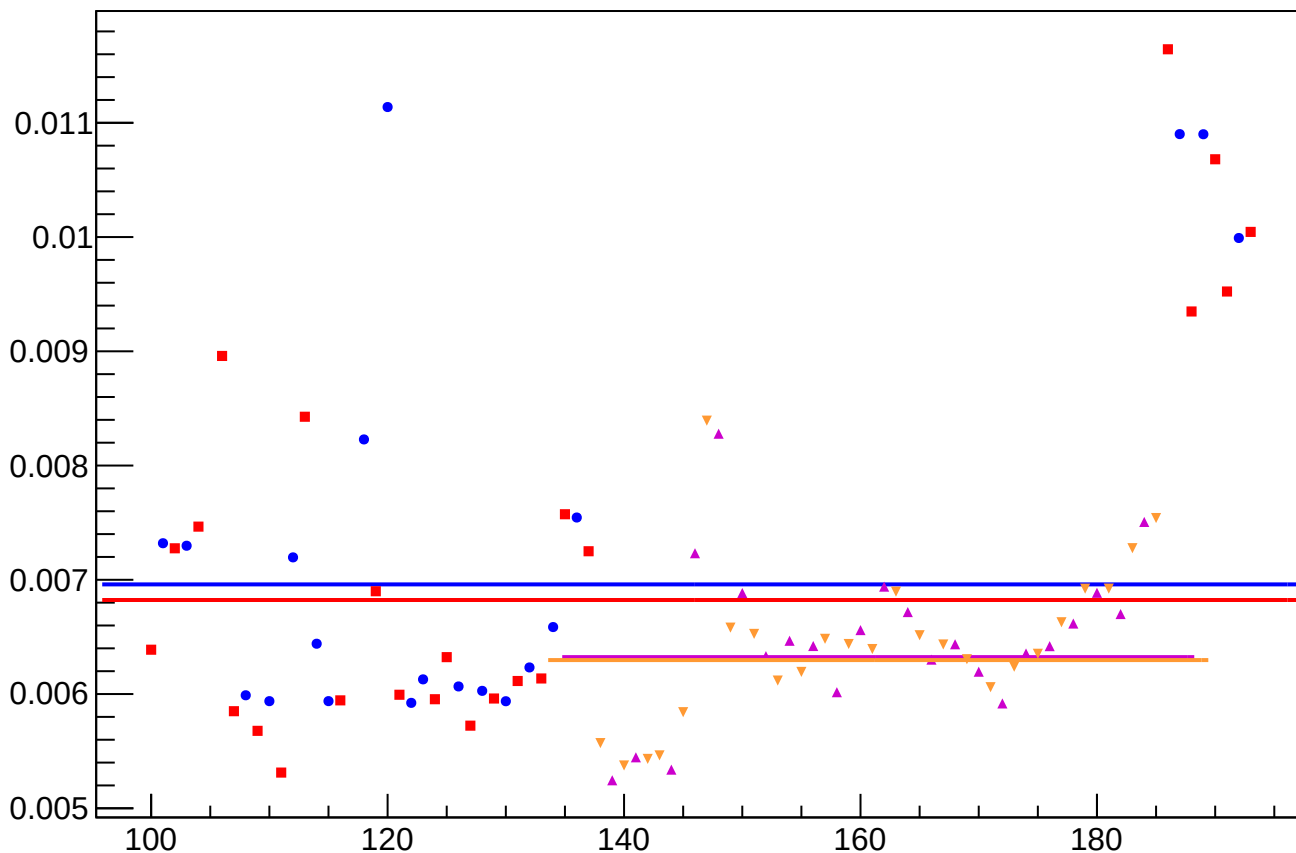
Right: -1.425+/-0.000 χ^2/NDF : 98807966818.2/43

In: -1.593+/-0.000 χ^2/NDF : 60977384132.6/42

Out: -1.601+/-0.000 χ^2/NDF : 84584279232.6/48

All: -1.597+/-0.000 χ^2/NDF : 145583920066.4

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 578135.1/19

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 816051.5/23

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

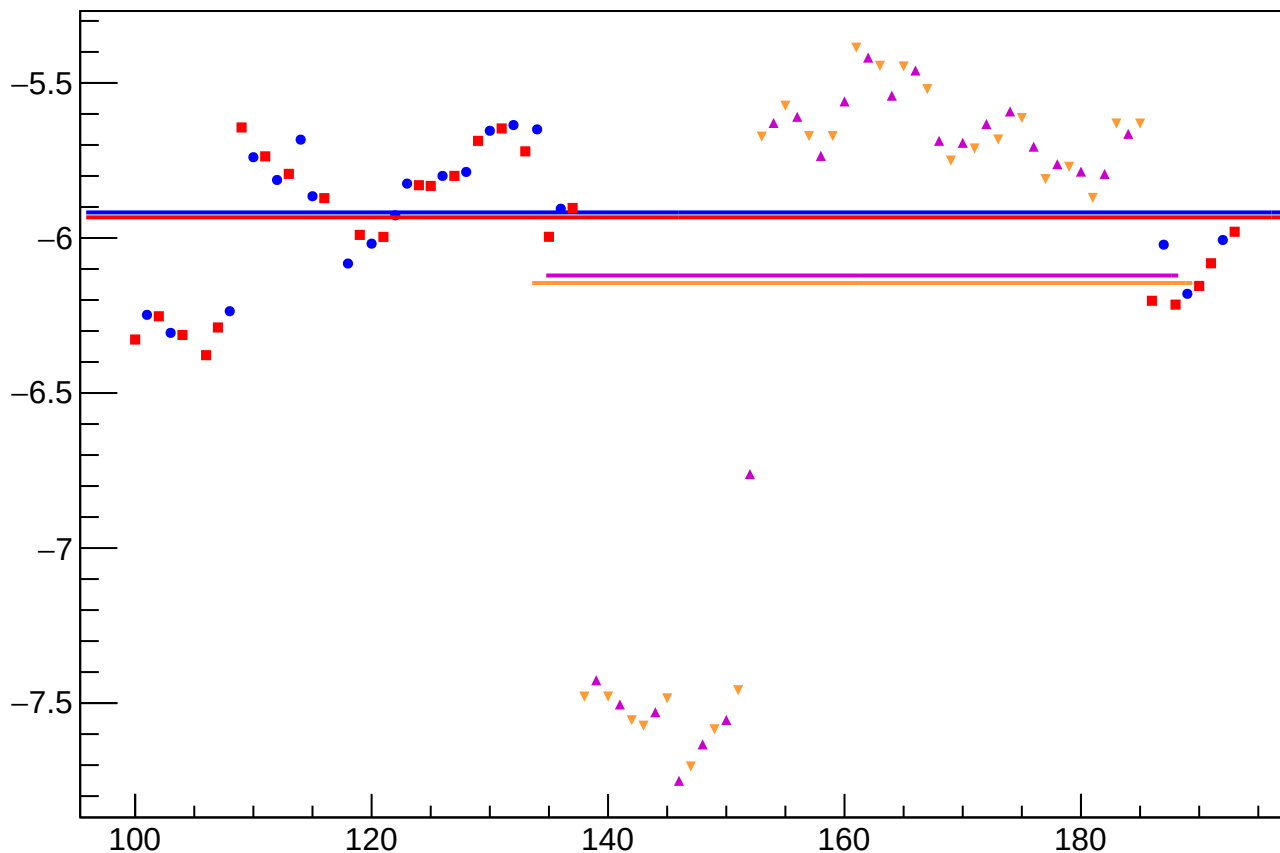
Right: 0.007+/-0.000 χ^2/NDF : 1397327.2/43

In: 0.006+/-0.000 χ^2/NDF : 998873.0/42

Out: 0.006+/-0.000 χ^2/NDF : 1199753.3/48

All: 0.006+/-0.000 χ^2/NDF : 2199612.4/91

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.918+/-0.000 χ^2/NDF : 11395411220.6/19

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.933+/-0.000 χ^2/NDF : 13616130668.4/23

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

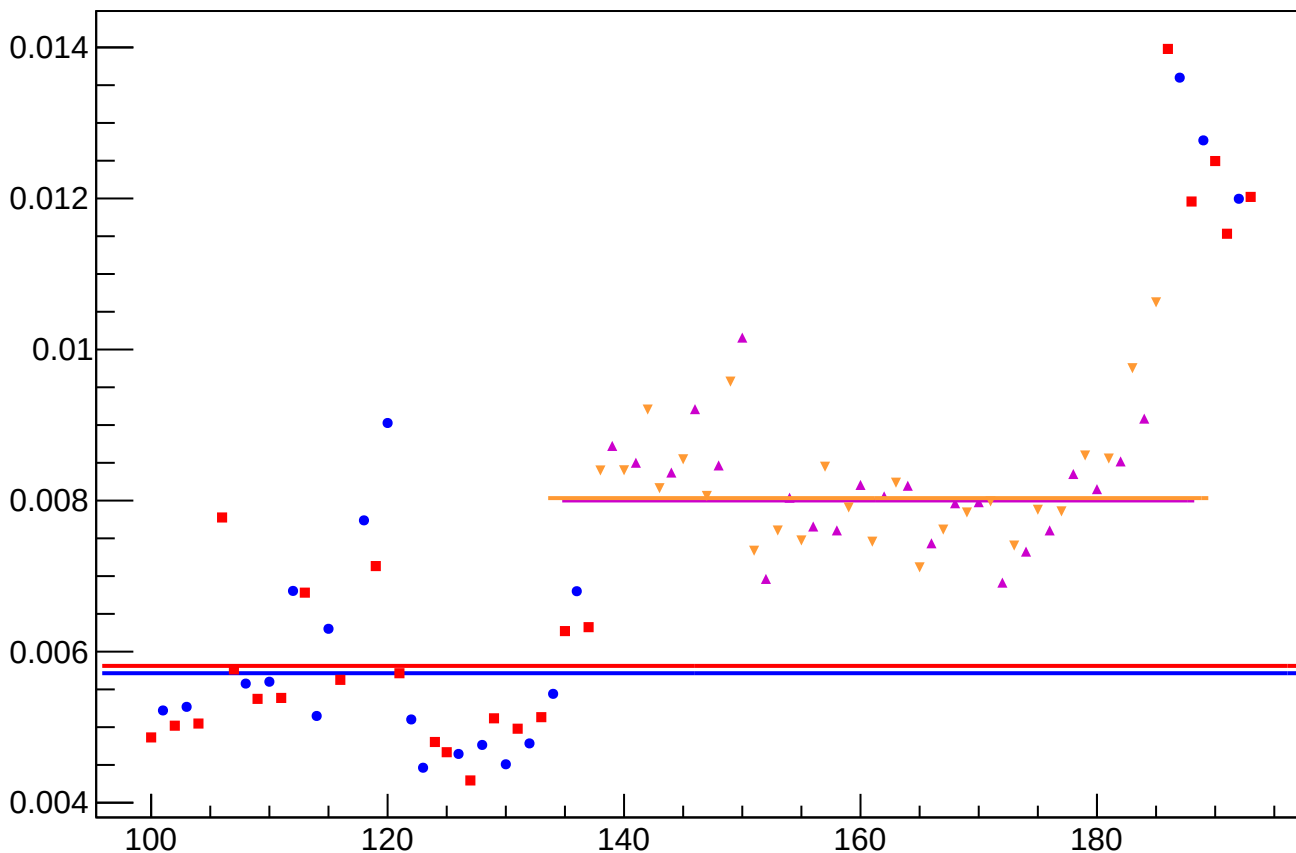
Right: -5.926+/-0.000 χ^2/NDF : 25039952955.9/43

In: -6.027+/-0.000 χ^2/NDF : 174425540773.3/42

Out: -6.043+/-0.000 χ^2/NDF : 204531155491.9/48

All: -6.035+/-0.000 χ^2/NDF : 379017928837.8

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1257579.6/19

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1708906.8/23

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

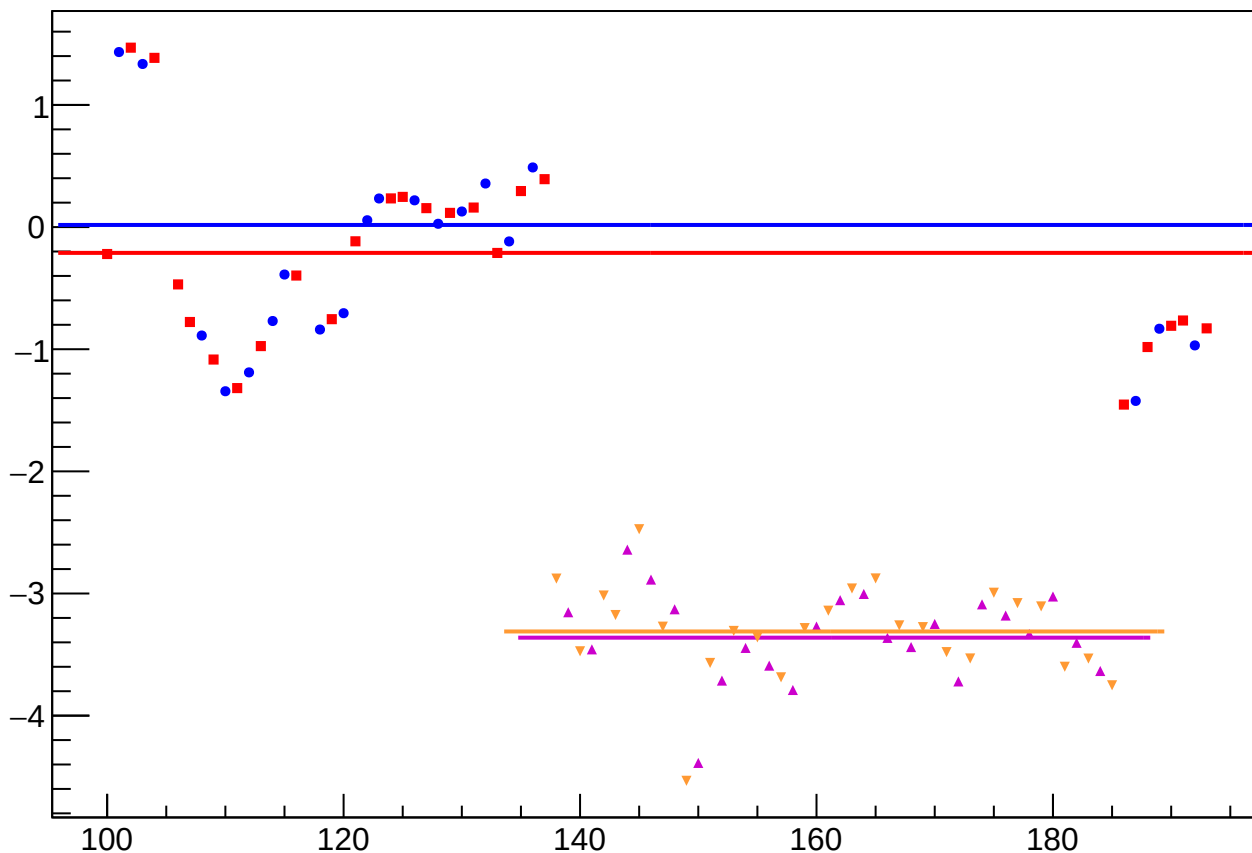
Right: 0.006+/-0.000 χ^2/NDF : 2968592.4/43

In: 0.007+/-0.000 χ^2/NDF :2669395.2/42

Out: 0.007+/-0.000 χ^2/NDF :3137370.2/48

All: 0.007+/-0.000 χ^2/NDF : 5806896.4/91

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 21794442260.0/19

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.211+/-0.000 χ^2/NDF : 26899406695.1/23

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

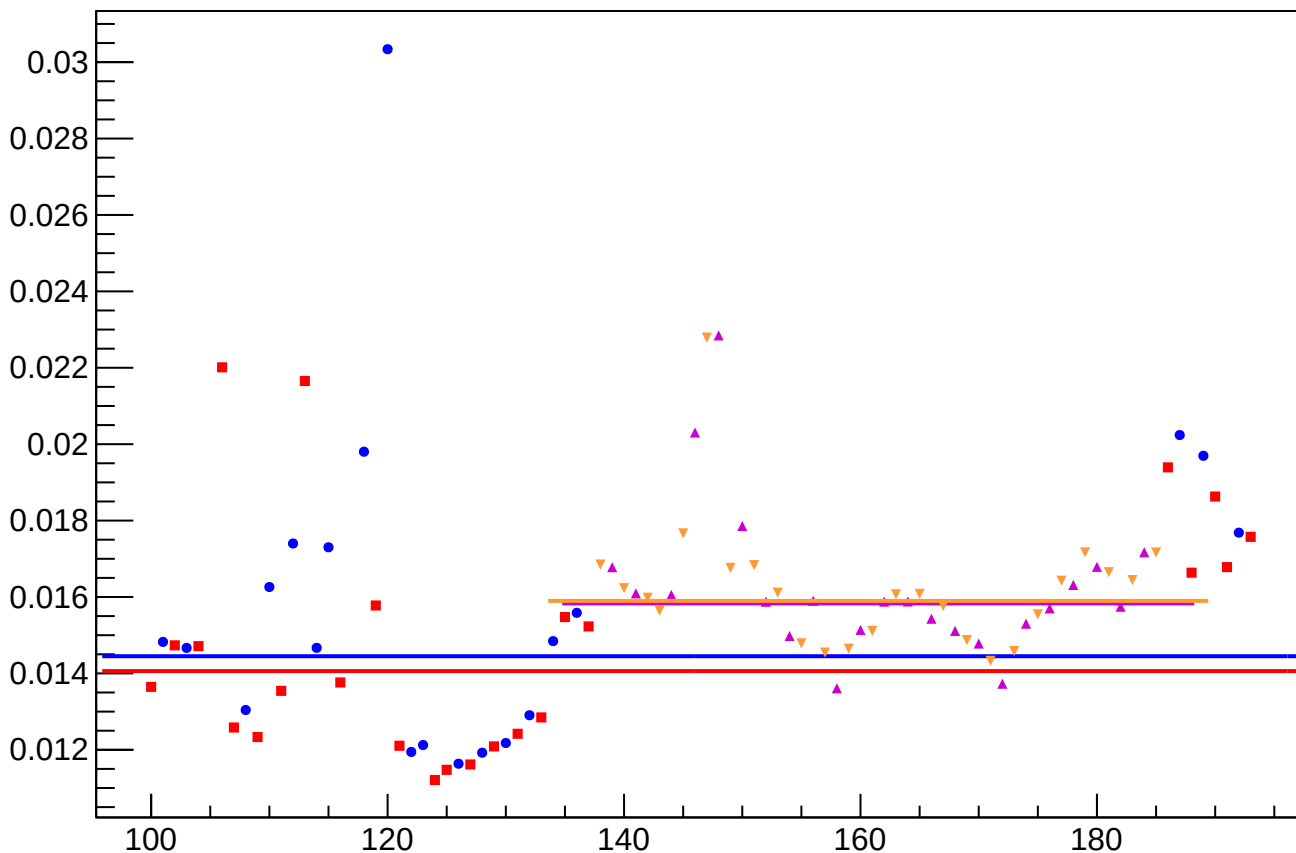
Right: -0.111+/-0.000 χ^2/NDF : 49715509233.1/43

In: -2.197+/-0.000 χ^2/NDF : 290796492730.8/42

Out: -2.106+/-0.000 χ^2/NDF : 297378576464.1/48

All: -2.149+/-0.000 χ^2/NDF : 588613866010.7

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014 ± 0.000 $\chi^2/\text{NDF}: 565129.2/19$

Left Out: 0.016 ± 0.000 $\chi^2/\text{NDF}: 251912.7/24$

Right Out: 0.014 ± 0.000 $\chi^2/\text{NDF}: 536462.0/23$

Left In: 0.016 ± 0.000 $\chi^2/\text{NDF}: 339542.1/22$

Left: 0.016 ± 0.000 $\chi^2/\text{NDF}: 591766.7/47$

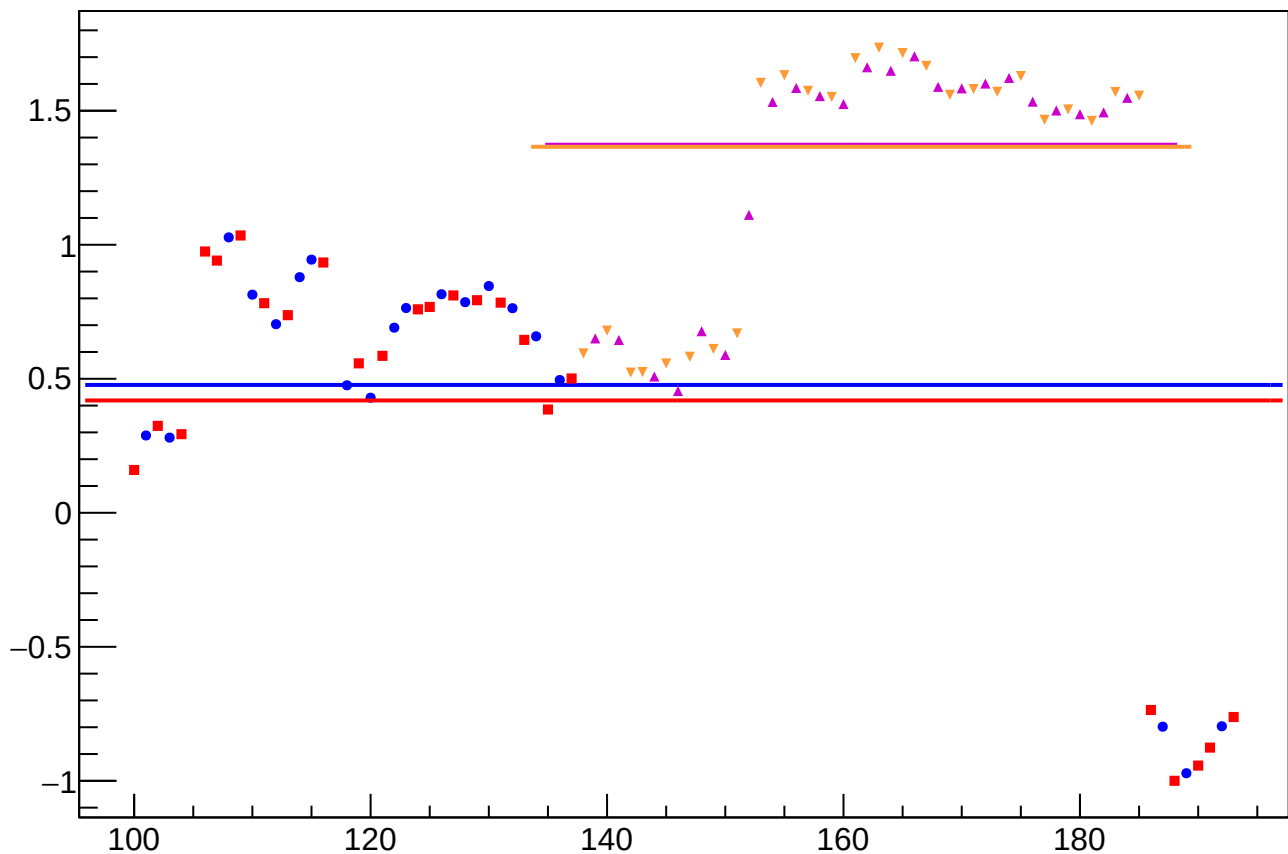
Right: 0.014 ± 0.000 $\chi^2/\text{NDF}: 1107498.6/43$

In: 0.015 ± 0.000 $\chi^2/\text{NDF}: 991804.1/42$

Out: 0.015 ± 0.000 $\chi^2/\text{NDF}: 971908.7/48$

All: 0.015 ± 0.000 $\chi^2/\text{NDF}: 1966825.7/91$

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.477±/-0.000

χ^2/NDF : 25054763984.8/19

Left: 1.369±/-0.000 χ^2/NDF : 138167468300.7/47

Right: 0.445±/-0.000 χ^2/NDF : 65719300997.8/43

Left Out: 1.366±/-0.000

χ^2/NDF : 74741956067.9/24

In: 1.196±/-0.000 χ^2/NDF : 156211124389.1/42

Right Out: 0.419±/-0.000

χ^2/NDF : 40472482658.2/23

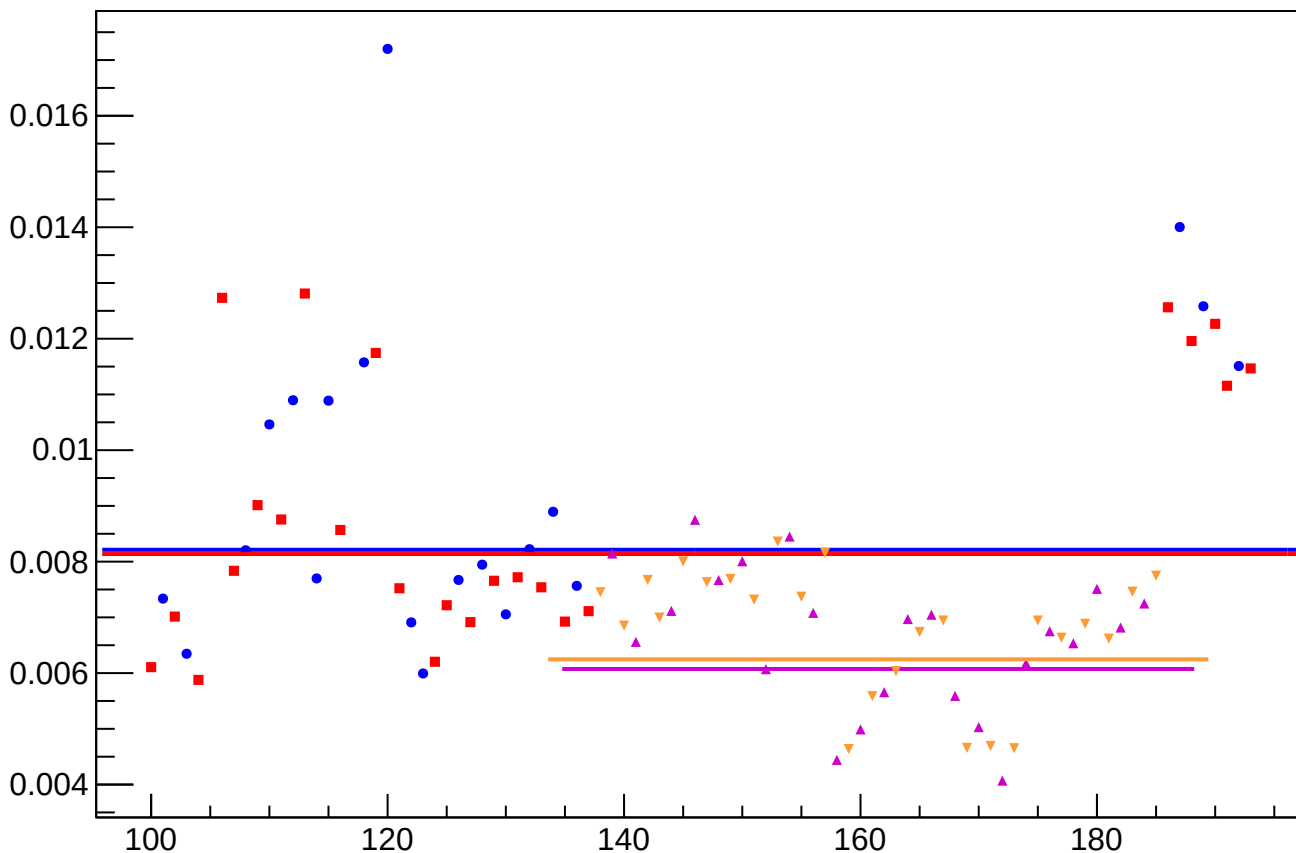
Out: 1.149±/-0.000 χ^2/NDF : 202338100712.8/48

Left In: 1.373±/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.172±/-0.000 χ^2/NDF : 359144001395.3

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000

χ^2/NDF : 796526.6/19

Left Out: 0.006+/-0.000

χ^2/NDF :1330867.5/24

Right Out: 0.008+/-0.000

χ^2/NDF : 1003108.2/23

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 : 1800309.1/43

In: 0.006+/-0.000

χ^2/NDF :3000143.4/42

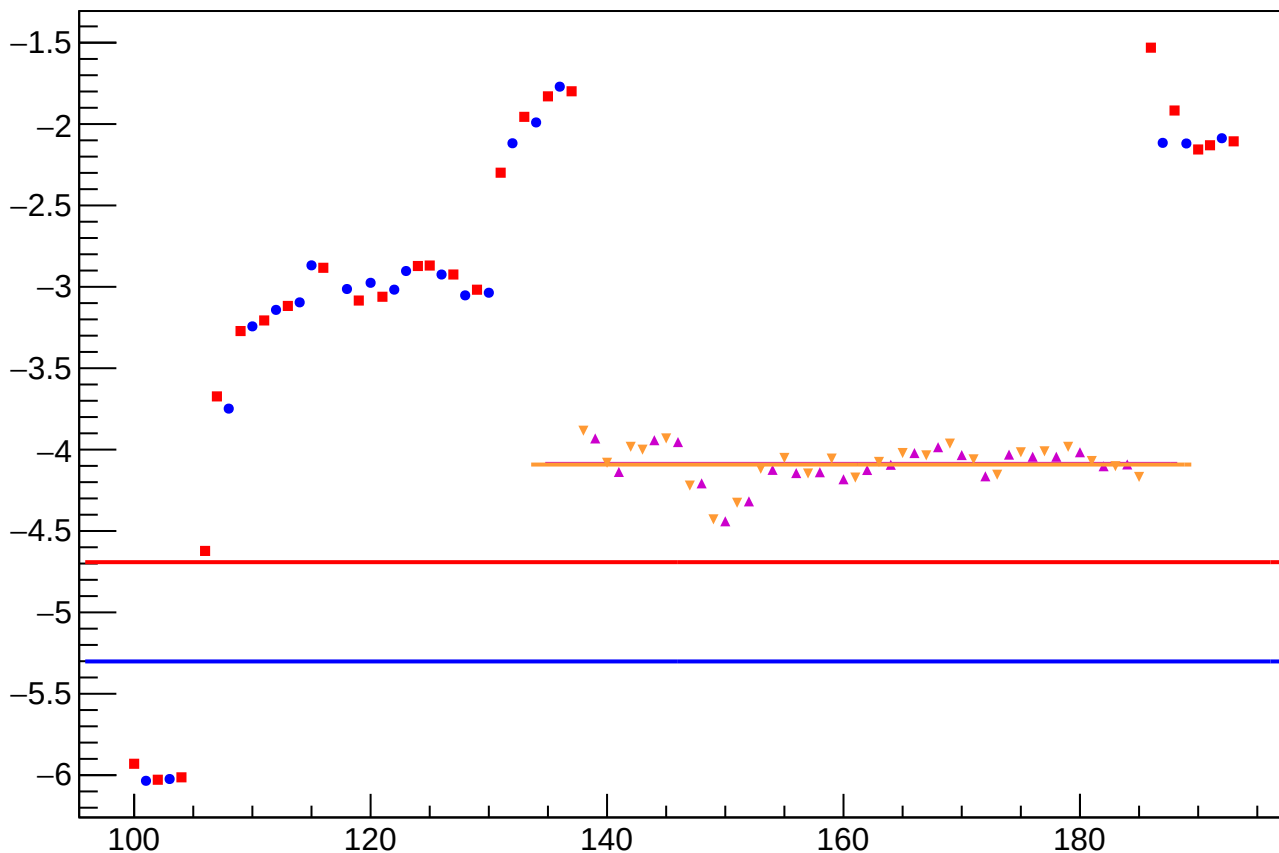
Out: 0.007+/-0.000

χ^2/NDF :3028119.4/48

All: 0.007+/-0.000

χ^2/NDF : 6046250.4/91

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.301+/-0.000

χ^2/NDF : 131097864217.2/19

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right: -5.001+/-0.000

χ^2/NDF : 339991565556.2/43

Right Out: -4.692+/-0.000

χ^2/NDF : 198455288443.2/23

In: -5.217+/-0.000

χ^2/NDF : 136976441297.5/42

Out: -4.661+/-0.000

χ^2/NDF : 199503285000.7/48

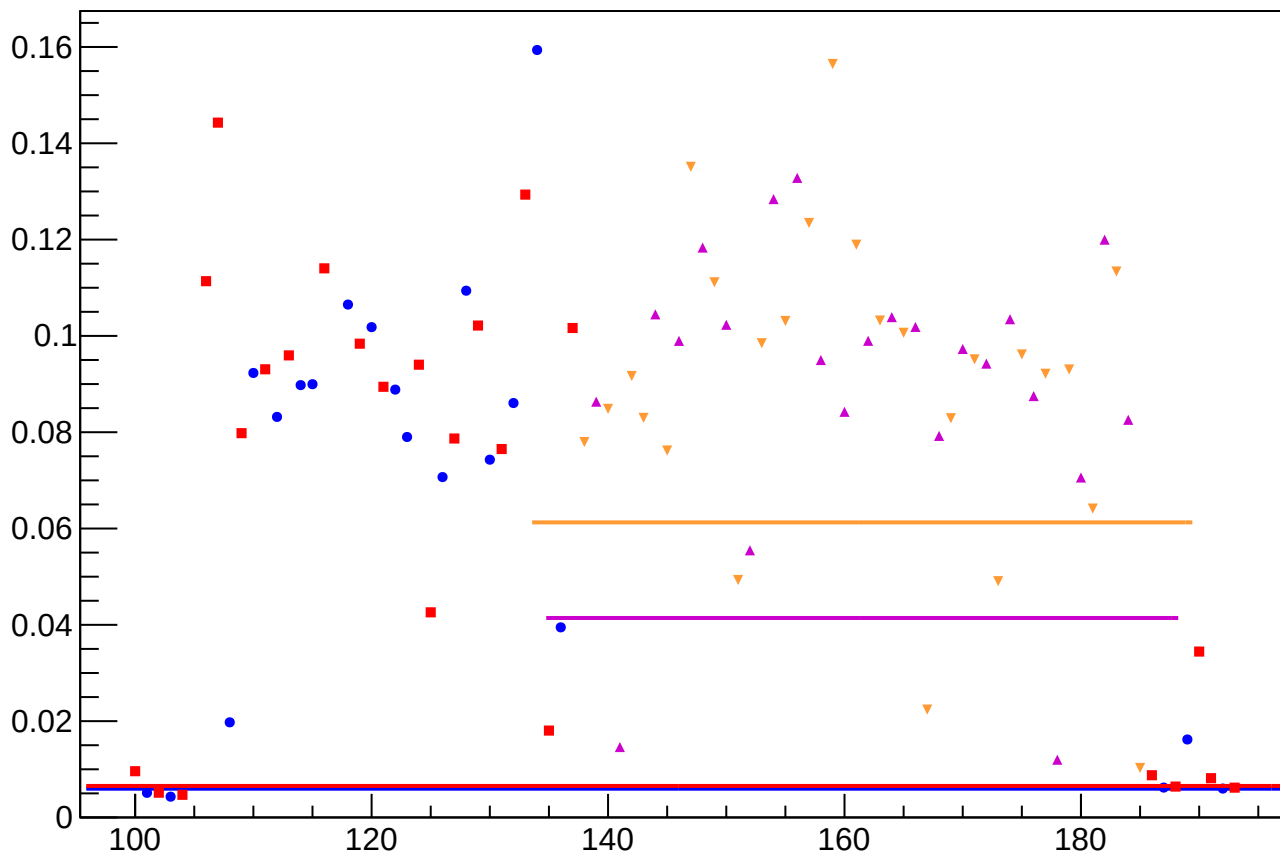
Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

All: -4.946+/-0.000

χ^2/NDF : 345698211360.3

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 7989230.2/19

Left Out: 0.061 $\pm$ 0.000 χ^2 /NDF:8355266.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 8671409.5/23

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

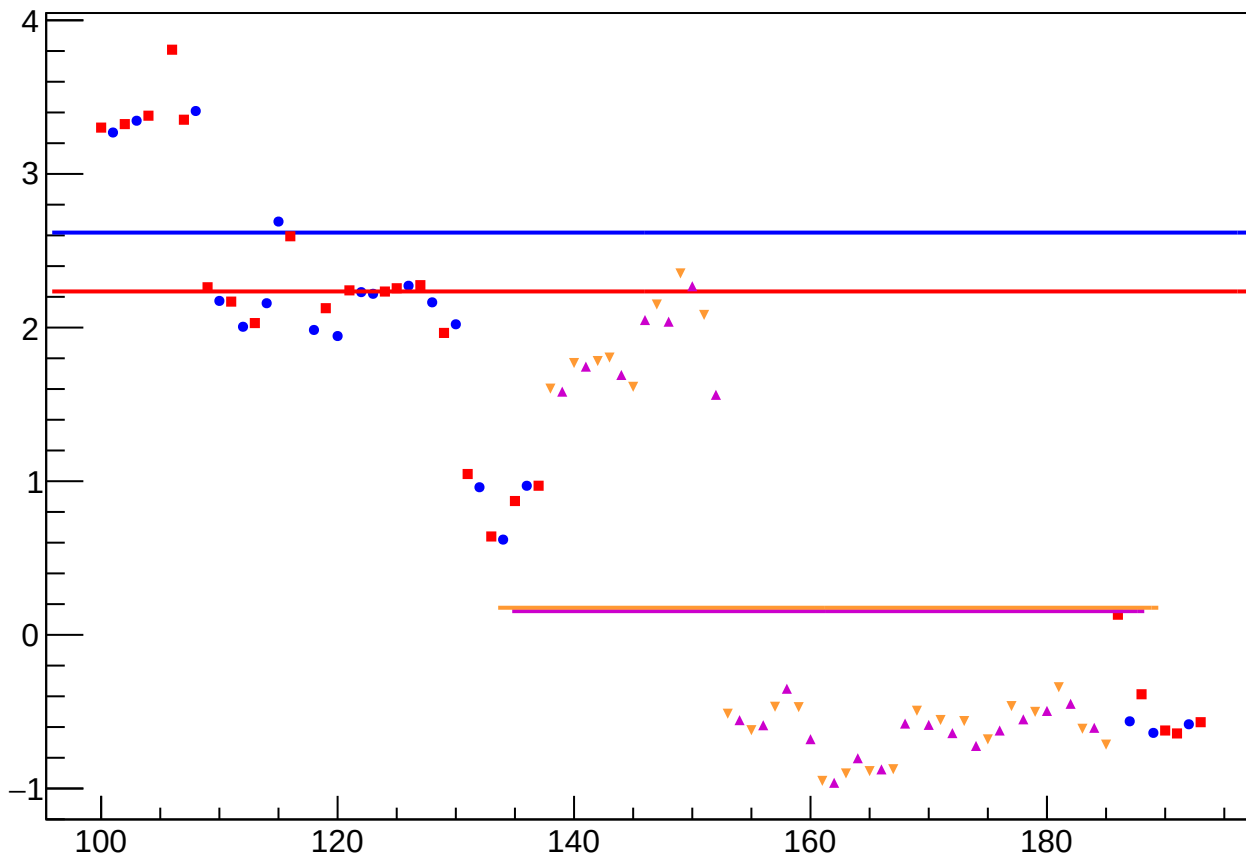
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 16678763.1/43

In: 0.008 $\pm$ 0.000 χ^2 /NDF:31085546.2/42

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:33823158.0/48

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 64953855.2/91

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 2.618+/-0.000

χ^2/NDF : 73785622868.1/19

Left Out: 0.177+/-0.000

χ^2/NDF : 3275313367.7/24

Right Out: 2.235+/-0.000

χ^2/NDF : 108111451278.9/23

Left In: 0.154+/-0.000

χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000

χ^2/NDF : 6439465655.5/47

Right: 2.420+/-0.000

χ^2/NDF : 184515041922.8/43

In: 2.447+/-0.000

χ^2/NDF : 91519758389.9/42

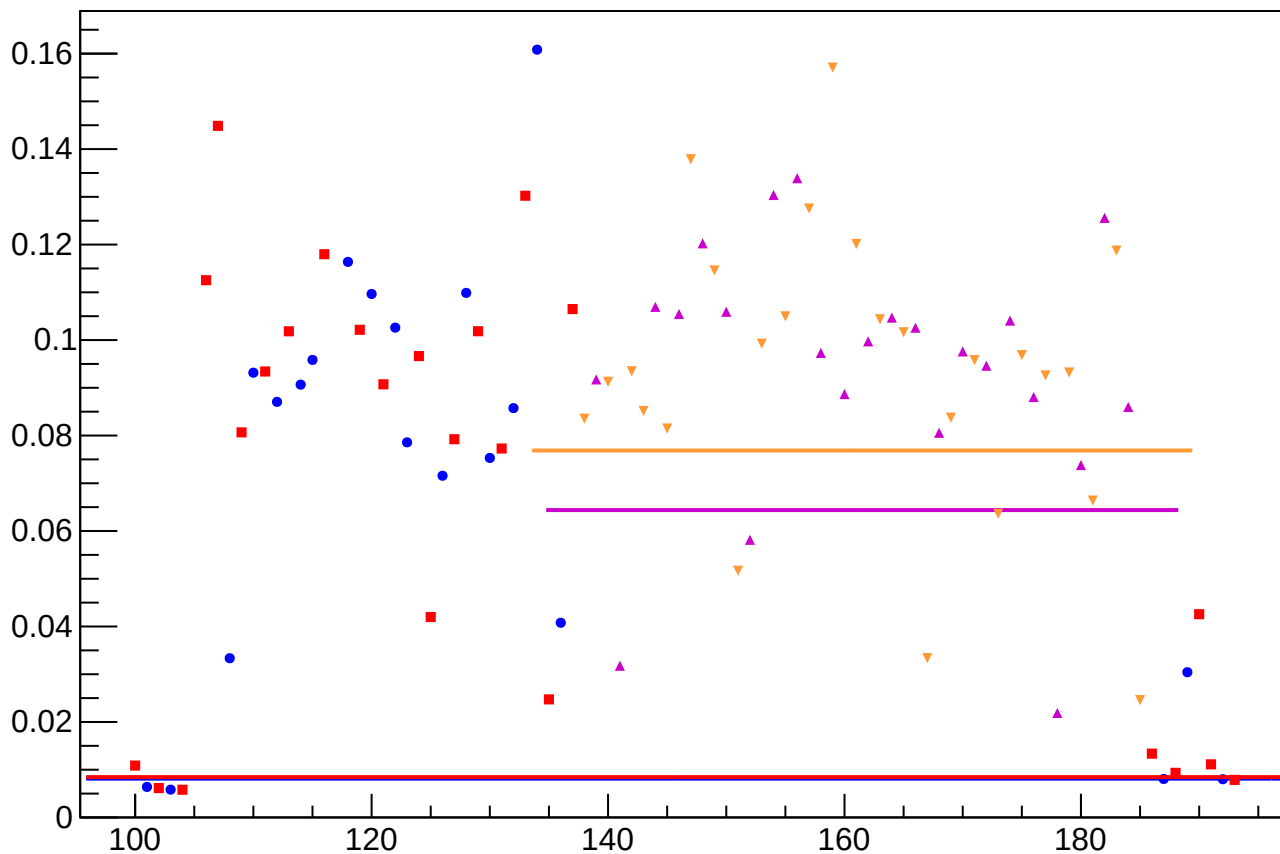
Out: 2.116+/-0.000

χ^2/NDF : 120437447655.4/48

All: 2.277+/-0.000

χ^2/NDF : 214045832794.9

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7891539.5/19

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8560229.3/23

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

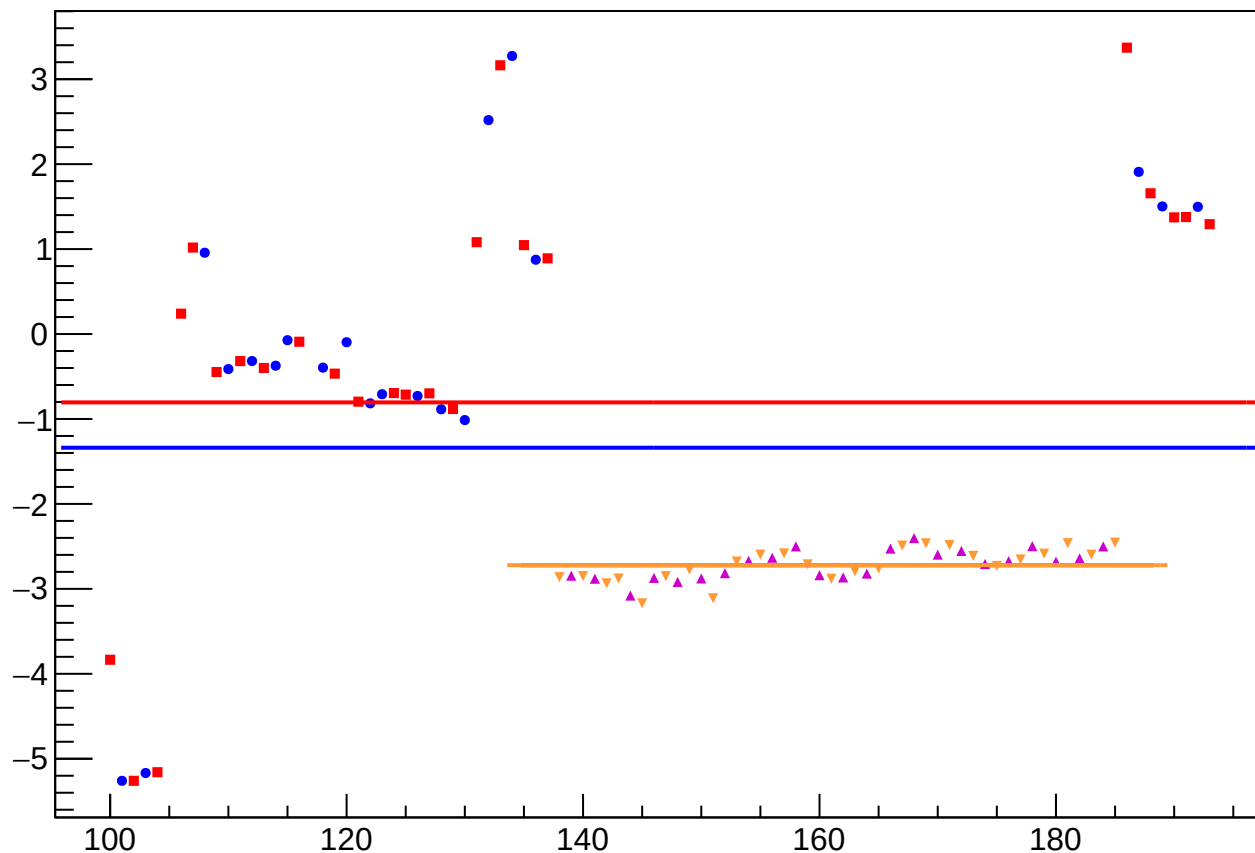
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16455180.7/43

In: 0.012 $\pm$ 0.000 χ^2 /NDF:30069826.3/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:32776360.5/48

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 62851184.9/91

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.338+/-0.000 χ^2/NDF : 193400907073.2/19

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.805+/-0.000 χ^2/NDF : 218871077456.1/23

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

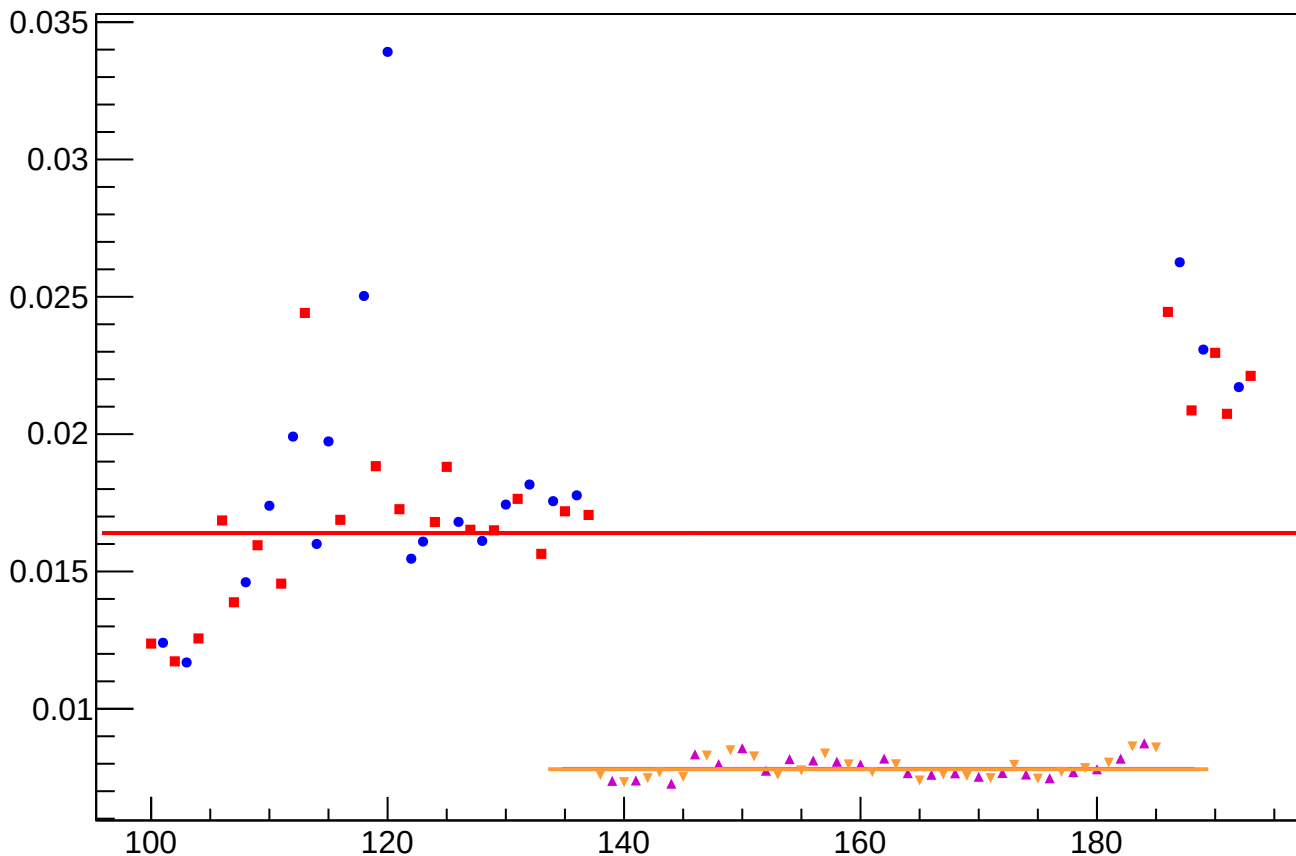
Right: -1.045+/-0.000 χ^2/NDF : 416316523267.8/43

In: -2.603+/-0.000 χ^2/NDF : 246727261448.7/42

Out: -2.534+/-0.000 χ^2/NDF : 333733462531.2/48

All: -2.567+/-0.000 χ^2/NDF : 581194476109.7

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 824326.2/19

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.016+/-0.000 χ^2/NDF : 732489.9/23

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

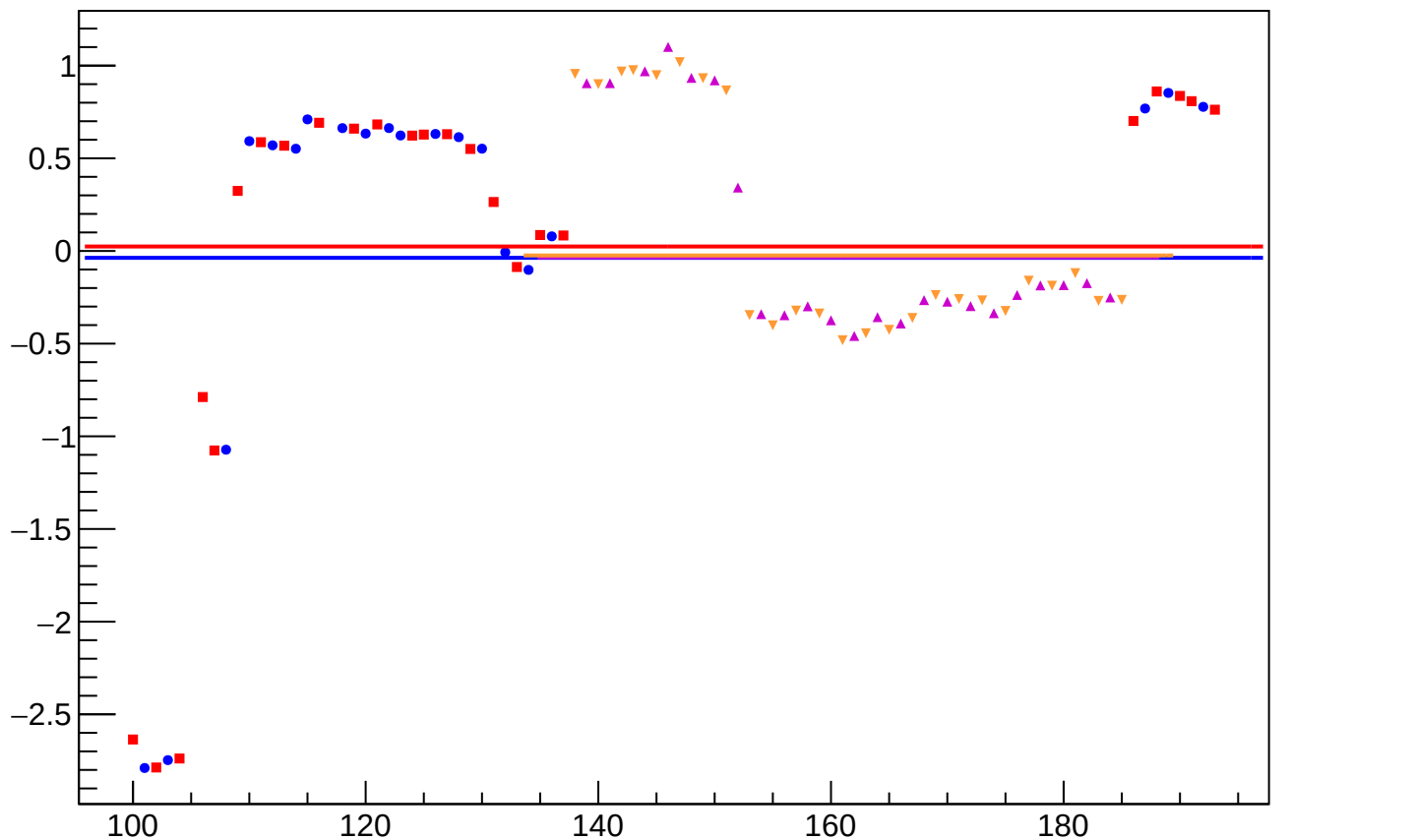
Right: 0.016+/-0.000 χ^2/NDF : 1556816.5/43

In: 0.009+/-0.000 χ^2/NDF : 4373259.4/42

Out: 0.009+/-0.000 χ^2/NDF : 5012028.9/48

All: 0.009+/-0.000 χ^2/NDF : 9387803.0/91

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.037 $\pm$ 0.000

χ^2 /NDF: 764259515255.9/19

Left Out: -0.024 $\pm$ 0.000

χ^2 /NDF: 135451649275.0/24

Right Out: 0.024 $\pm$ 0.000

χ^2 /NDF: 839627719541.6/23

Left In: -0.034 $\pm$ 0.000

χ^2 /NDF: 113929060918.1/22

Left: -0.029 $\pm$ 0.000

χ^2 /NDF: 249405201350.6/47

Right: -0.004 $\pm$ 0.000

χ^2 /NDF: 1605039370214.0/47

In: -0.036 $\pm$ 0.000

χ^2 /NDF: 878190408735.8/42

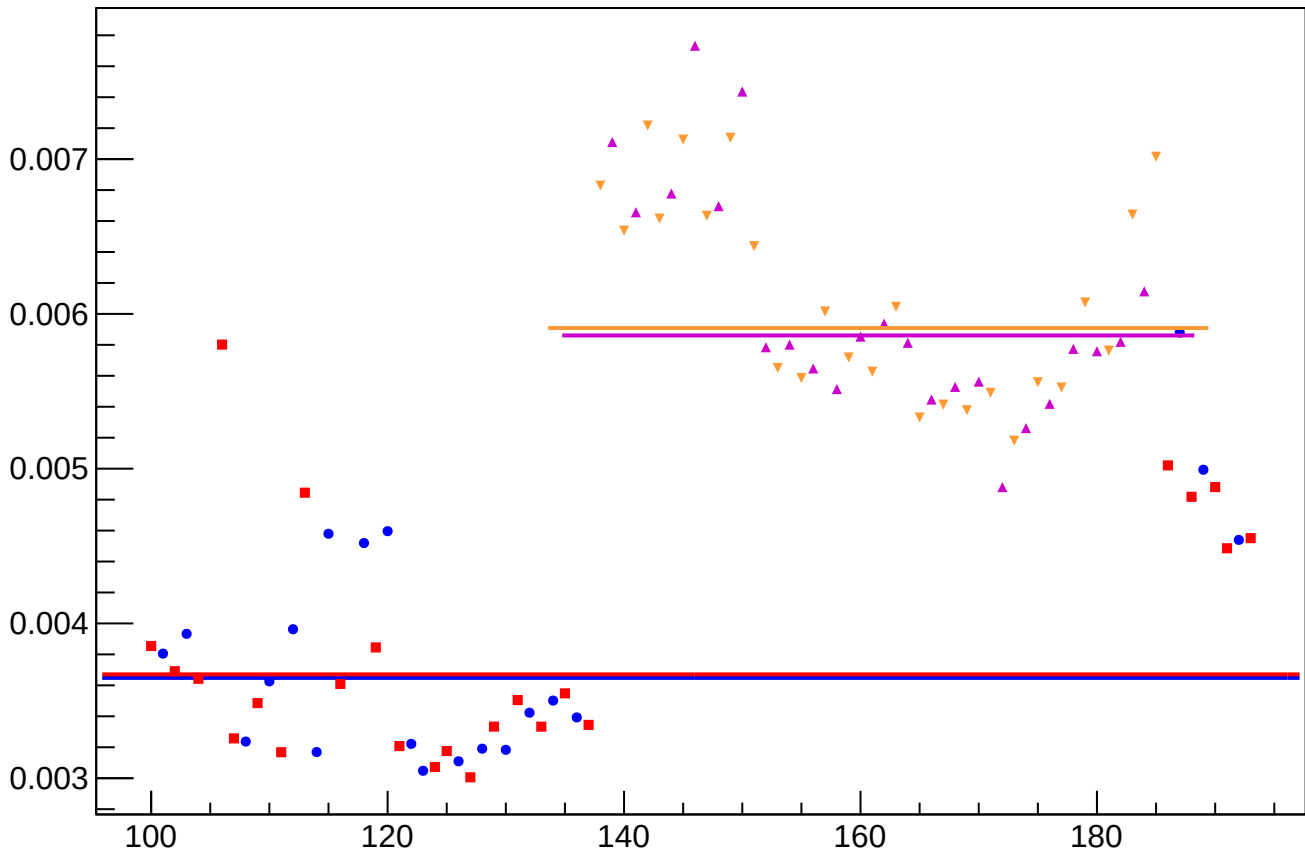
Out: 0.004 $\pm$ 0.000

χ^2 /NDF: 975732080775.1/48

All: -0.015 $\pm$ 0.000

χ^2 /NDF: 1854780222327

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 363048.2/19

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 517289.7/23

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

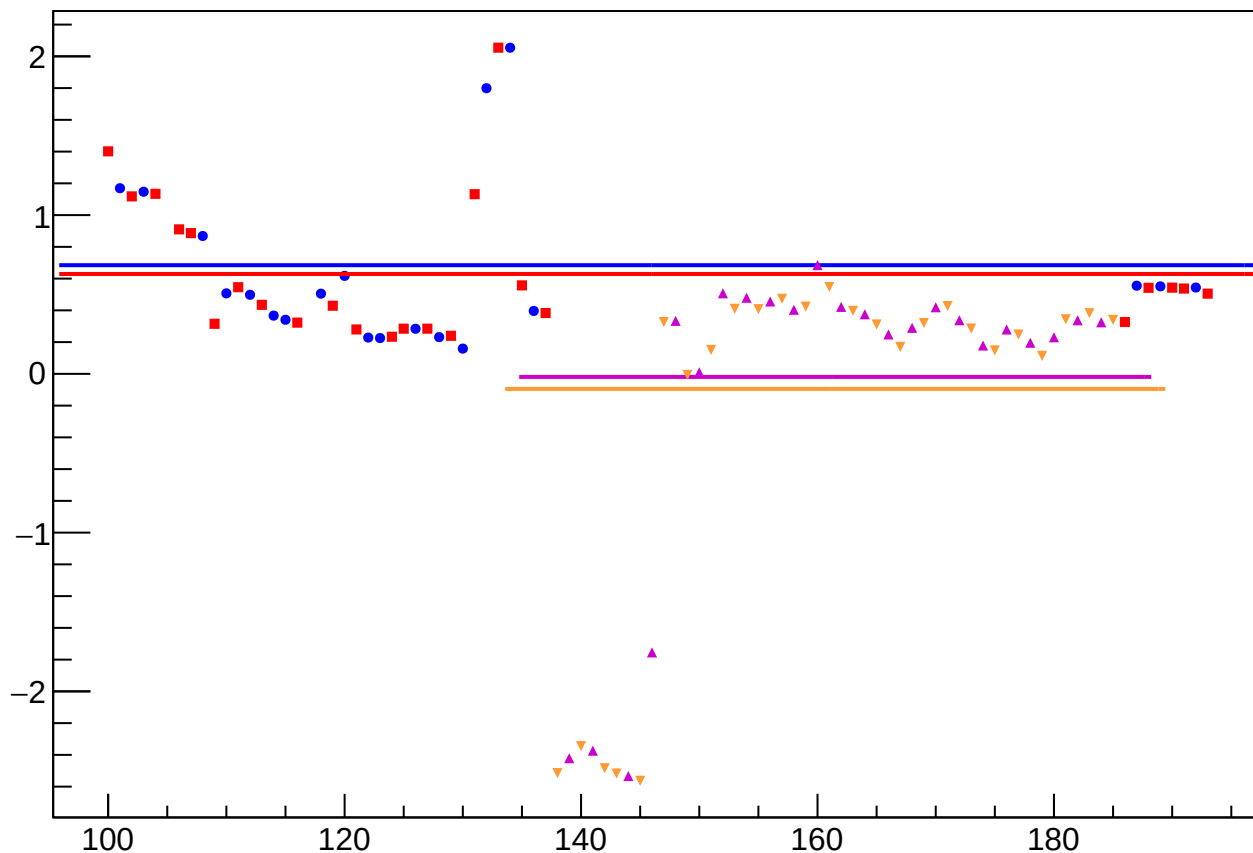
Right: 0.004+/-0.000 χ^2/NDF : 880658.0/43

In: 0.005+/-0.000 χ^2/NDF :3245757.6/42

Out: 0.005+/-0.000 χ^2/NDF :3636129.4/48

All: 0.005+/-0.000 χ^2/NDF : 6882746.9/91

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.685 $\pm$ 0.000 χ^2 /NDF: 37337248713.5/19

Left Out: -0.095 $\pm$ 0.000 χ^2 /NDF: 505606573631.9/24

Right Out: 0.629 $\pm$ 0.000 χ^2 /NDF: 44558539415.0/23

Left In: -0.019 $\pm$ 0.000 χ^2 /NDF: 417104863944.5/22

Left: -0.058 $\pm$ 0.000 χ^2 /NDF: 924153662333.7/47

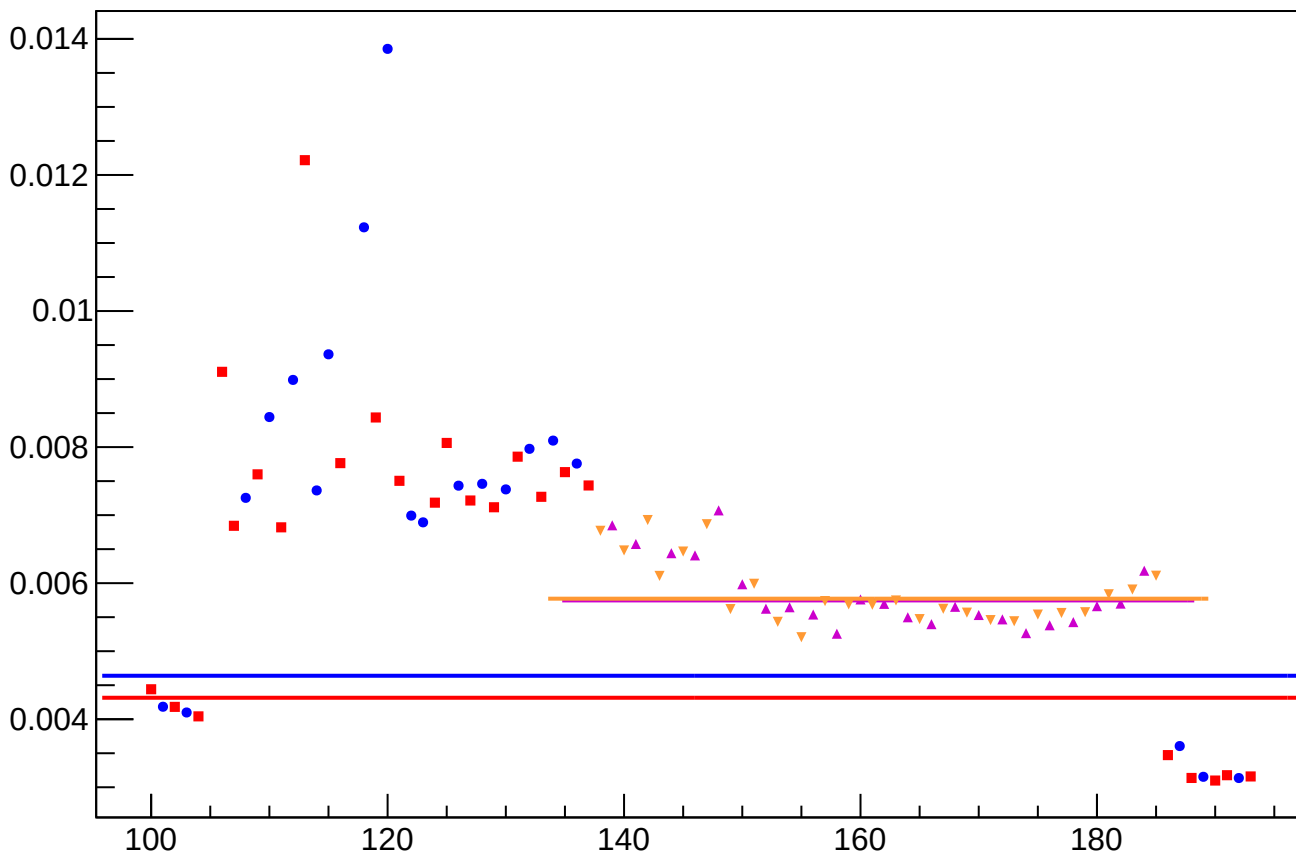
Right: 0.652 $\pm$ 0.000 χ^2 /NDF: 82412346102.1/43

In: 0.238 $\pm$ 0.000 χ^2 /NDF: 543961467326.4/42

Out: 0.222 $\pm$ 0.000 χ^2 /NDF: 668396368583.3/48

All: 0.230 $\pm$ 0.000 χ^2 /NDF: 1212470879368.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2507954.6/19

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 2720724.3/23

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

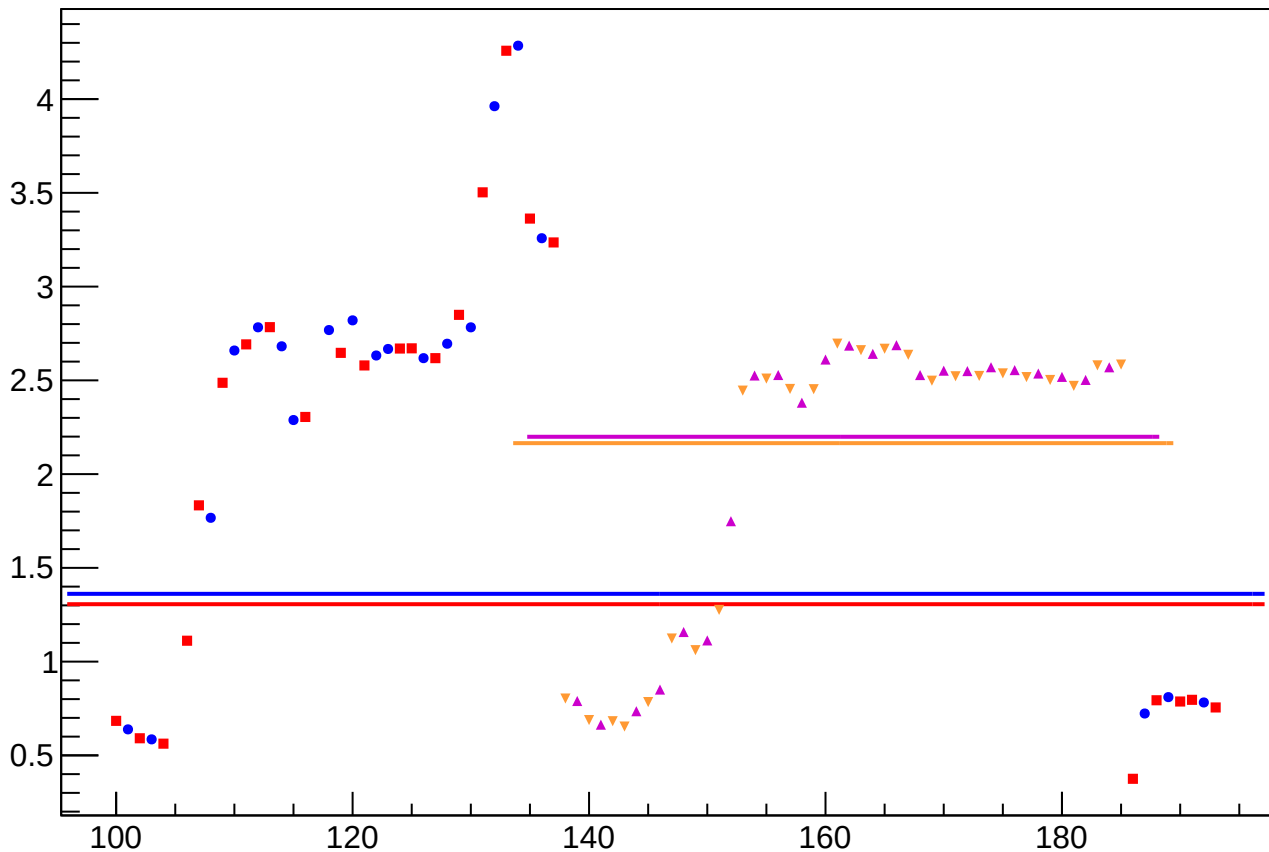
Right: 0.004+/-0.000 χ^2/NDF : 5263541.3/43

In: 0.005+/-0.000 χ^2/NDF :3155148.5/42

Out: 0.005+/-0.000 χ^2/NDF :3855539.6/48

All: 0.005+/-0.000 χ^2/NDF : 7046659.5/91

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.361+/-0.000 χ^2/NDF : 232870061536.2/19

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.306+/-0.000 χ^2/NDF : 287127161000.0/23

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

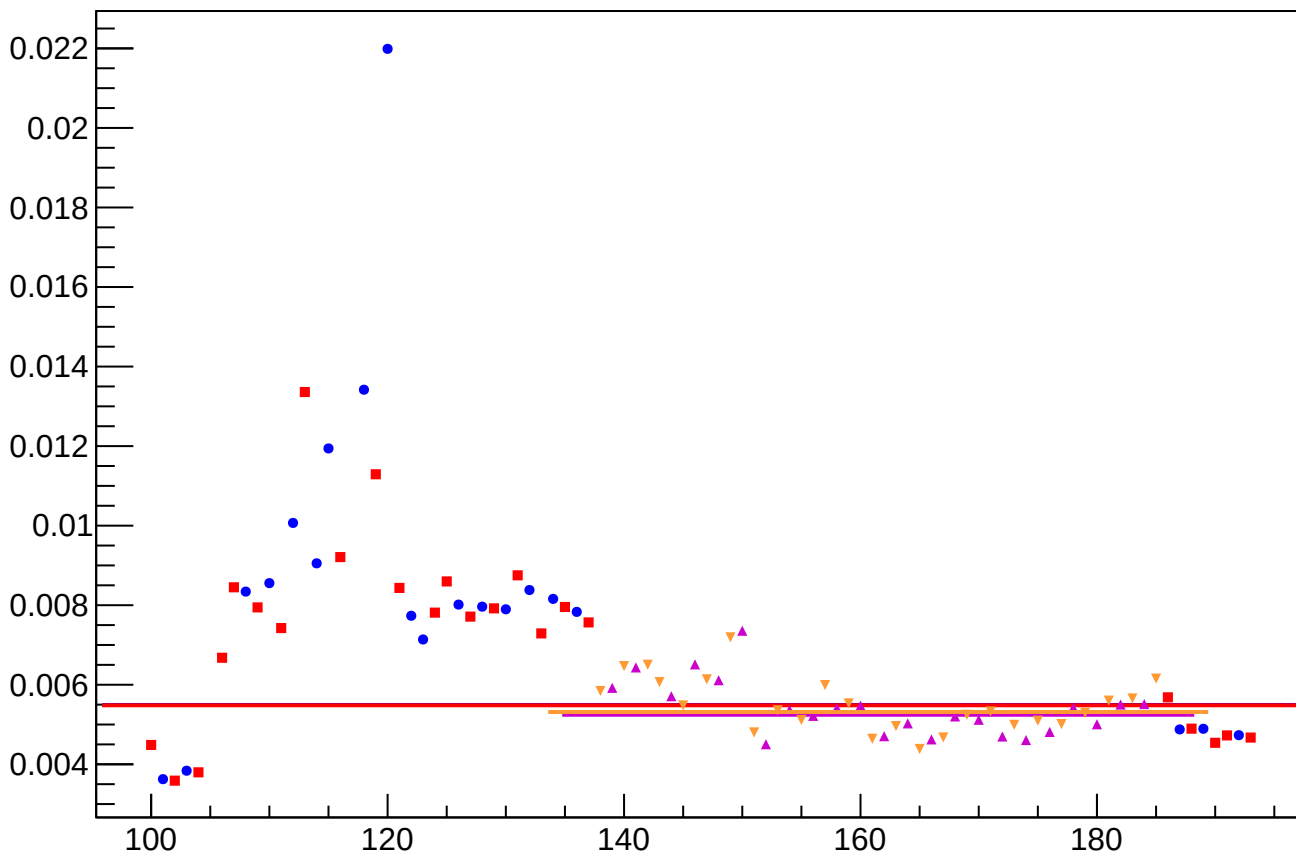
Right: 1.331+/-0.000 χ^2/NDF : 520347046100.8/43

In: 1.977+/-0.000 χ^2/NDF : 592388925348.8/42

Out: 1.903+/-0.000 χ^2/NDF : 711920289678.1/48

All: 1.939+/-0.000 χ^2/NDF : 1306520274392.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2000686.4/19

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1843952.8/23

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

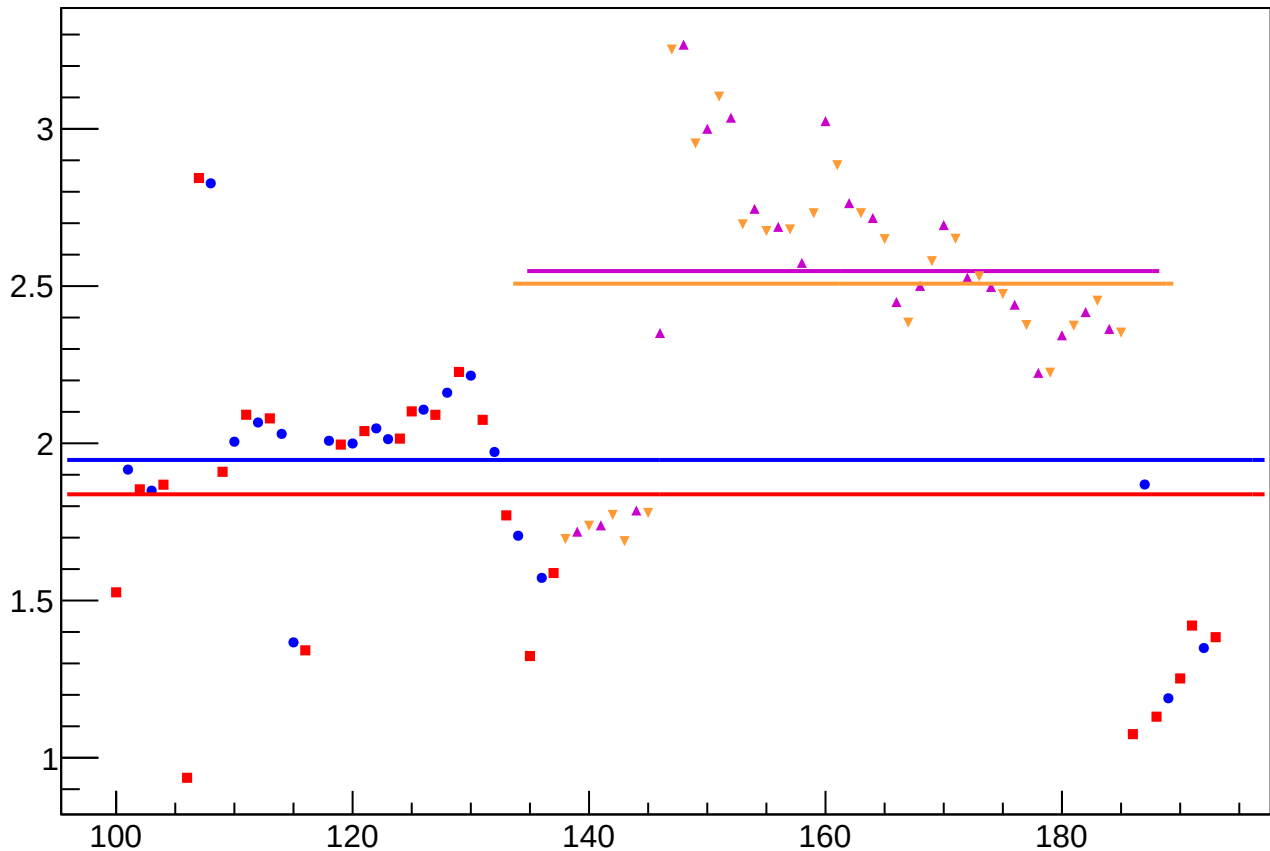
Right: 0.005+/-0.000 χ^2/NDF : 3844654.2/43

In: 0.005+/-0.000 χ^2/NDF : 2444918.1/42

Out: 0.005+/-0.000 χ^2/NDF : 2252890.6/48

All: 0.005+/-0.000 χ^2/NDF : 4700331.0/91

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.947 $\pm$ 0.000 χ^2 /NDF: 18774065878.0/19

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.838 $\pm$ 0.000 χ^2 /NDF: 33092128363.3/23

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

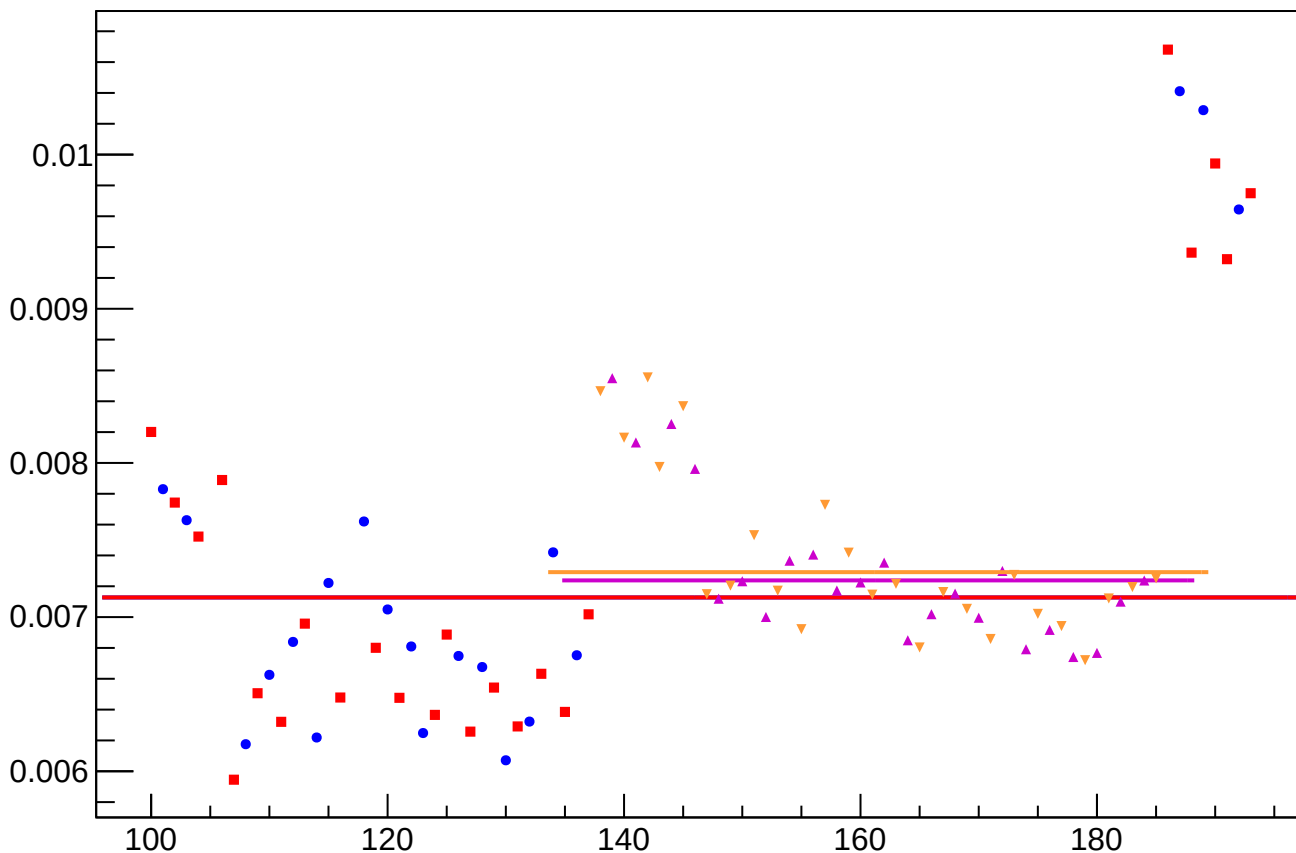
Right: 1.888 $\pm$ 0.000 χ^2 /NDF: 52844922393.7/43

In: 2.353 $\pm$ 0.000 χ^2 /NDF: 101109694245.7/42

Out: 2.272 $\pm$ 0.000 χ^2 /NDF: 137372640598.8/48

All: 2.311 $\pm$ 0.000 χ^2 /NDF: 240106575121.2

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 339027.3/19

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 501383.0/23

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

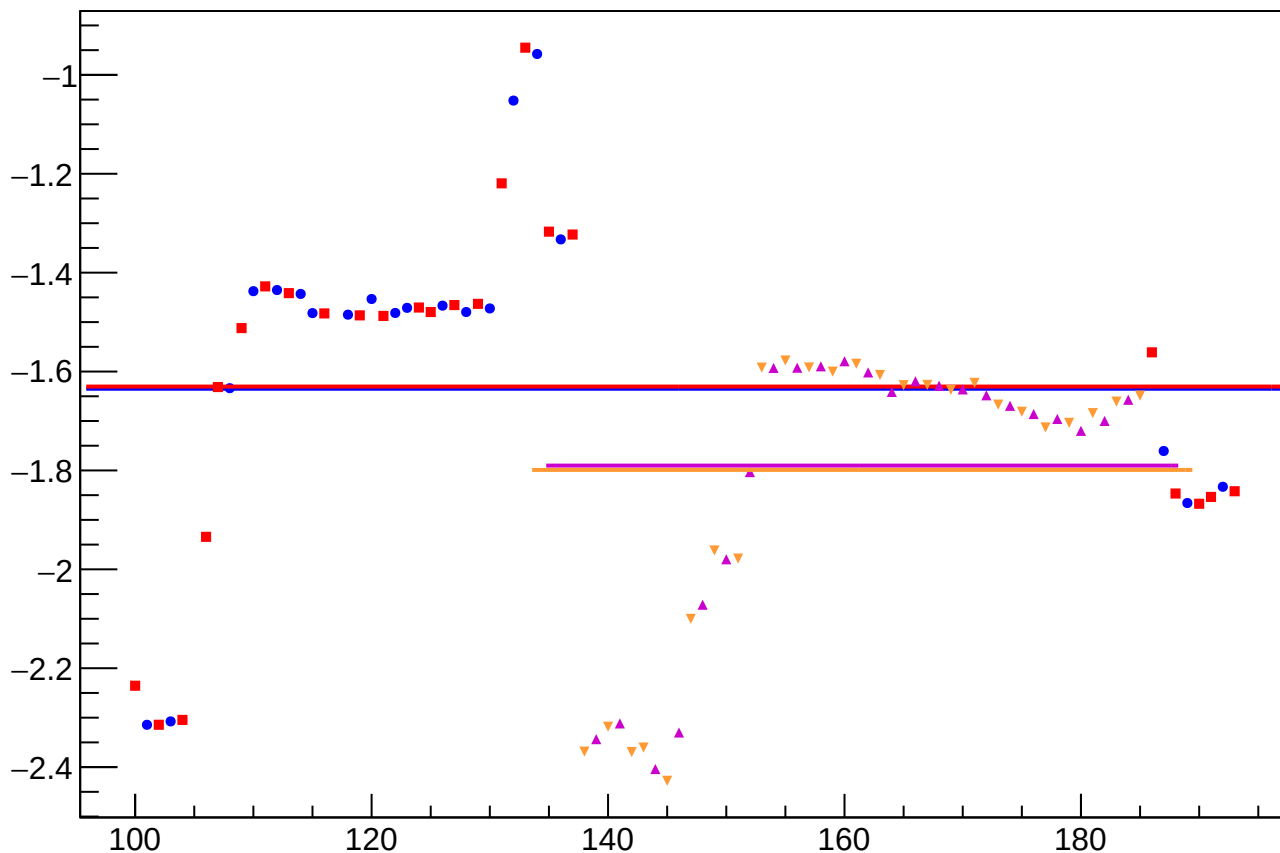
Right: 0.007+/-0.000 χ^2/NDF : 840410.3/43

In: 0.007+/-0.000 χ^2/NDF :466774.1/42

Out: 0.007+/-0.000 χ^2/NDF :648398.1/48

All: 0.007+/-0.000 χ^2/NDF : 1115657.4/91

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.635+/-0.000 χ^2/NDF : 147109369187.5/19

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.630+/-0.000 χ^2/NDF : 156592821038.1/23

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

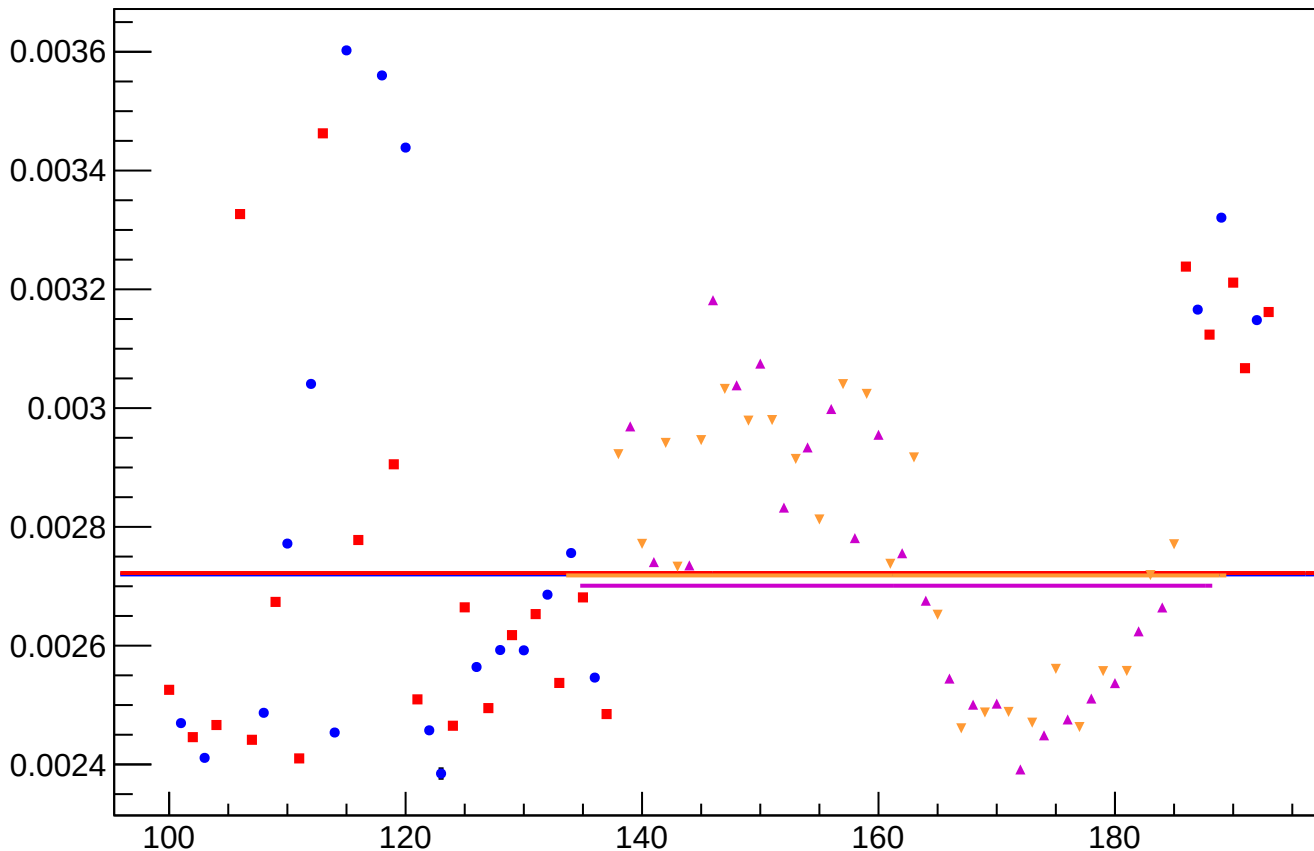
Right: -1.632+/-0.000 χ^2/NDF : 303713005242.4/43

In: -1.741+/-0.000 χ^2/NDF : 324018173221.5/42

Out: -1.741+/-0.000 χ^2/NDF : 364967563227.9/48

All: -1.741+/-0.000 χ^2/NDF : 688985749088.1

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 231499.0/19

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 225979.6/23

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

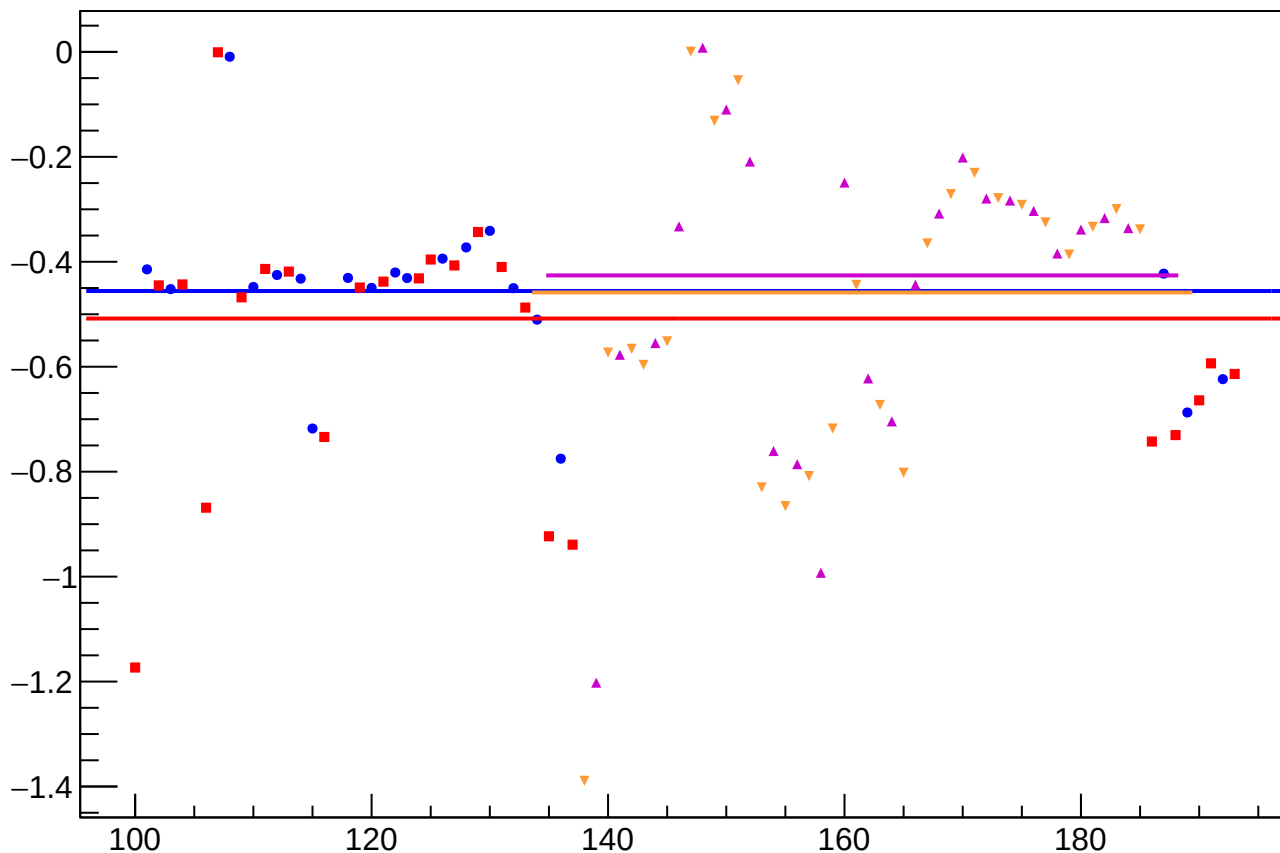
Right: 0.003+/-0.000 χ^2/NDF : 457484.9/43

In: 0.003+/-0.000 χ^2/NDF :452343.0/42

Out: 0.003+/-0.000 χ^2/NDF :425701.7/48

All: 0.003+/-0.000 χ^2/NDF : 878602.6/91

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.456+/-0.000 χ^2/NDF : 1647208590.5/19

Left Out: -0.459+/-0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.508+/-0.000 χ^2/NDF : 3007204015.8/23

Left In: -0.426+/-0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443+/-0.000 χ^2/NDF : 18401926676.9/47

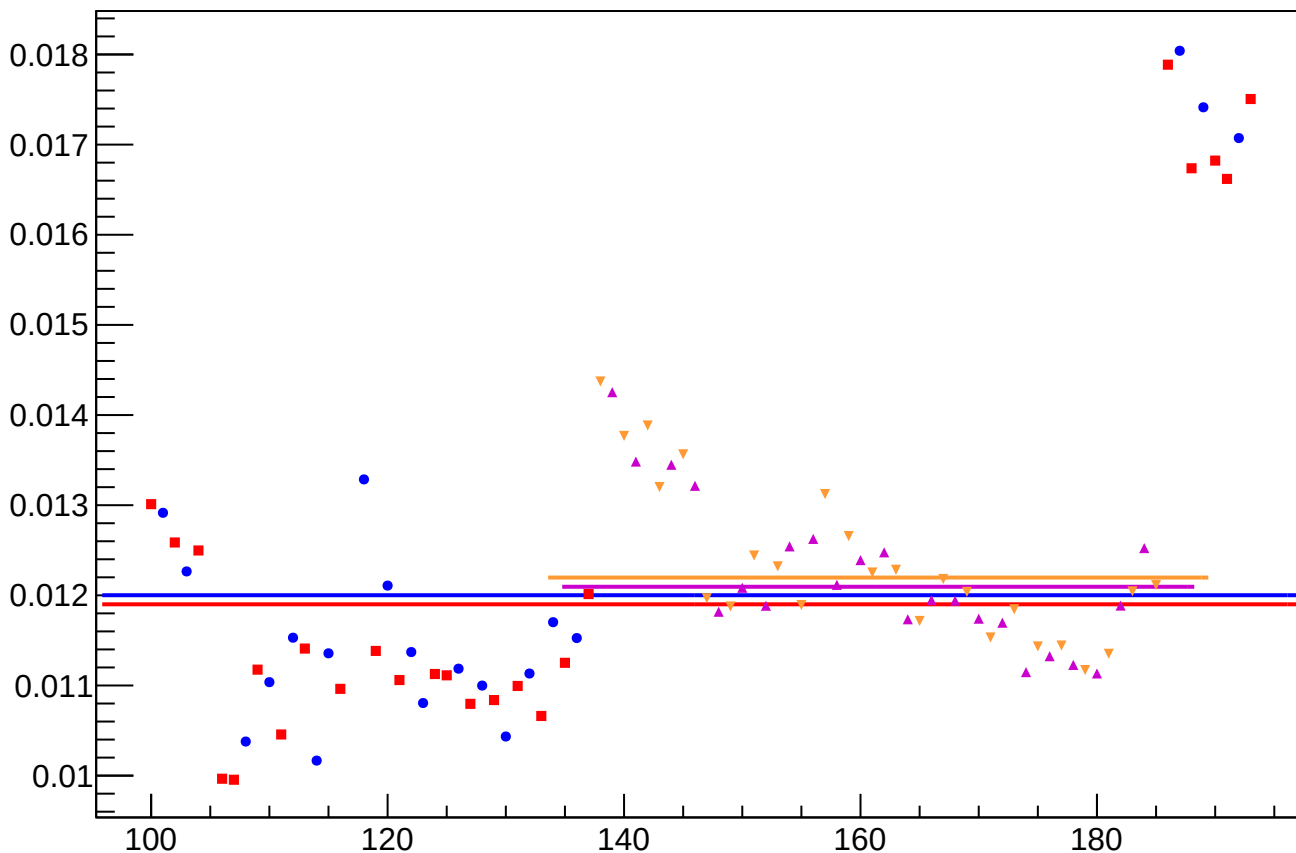
Right: -0.484+/-0.000 χ^2/NDF : 4735580050.1/43

In: -0.436+/-0.000 χ^2/NDF : 10103840314.2/42

Out: -0.476+/-0.000 χ^2/NDF : 13026785747.4/48

All: -0.457+/-0.000 χ^2/NDF : 23274147759.1/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 373965.4/19$

Left Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 141850.9/24$

Right Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 597661.7/23$

Left In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 127308.3/22$

Left: 0.012 ± 0.000 $\chi^2/\text{NDF}: 270367.5/47$

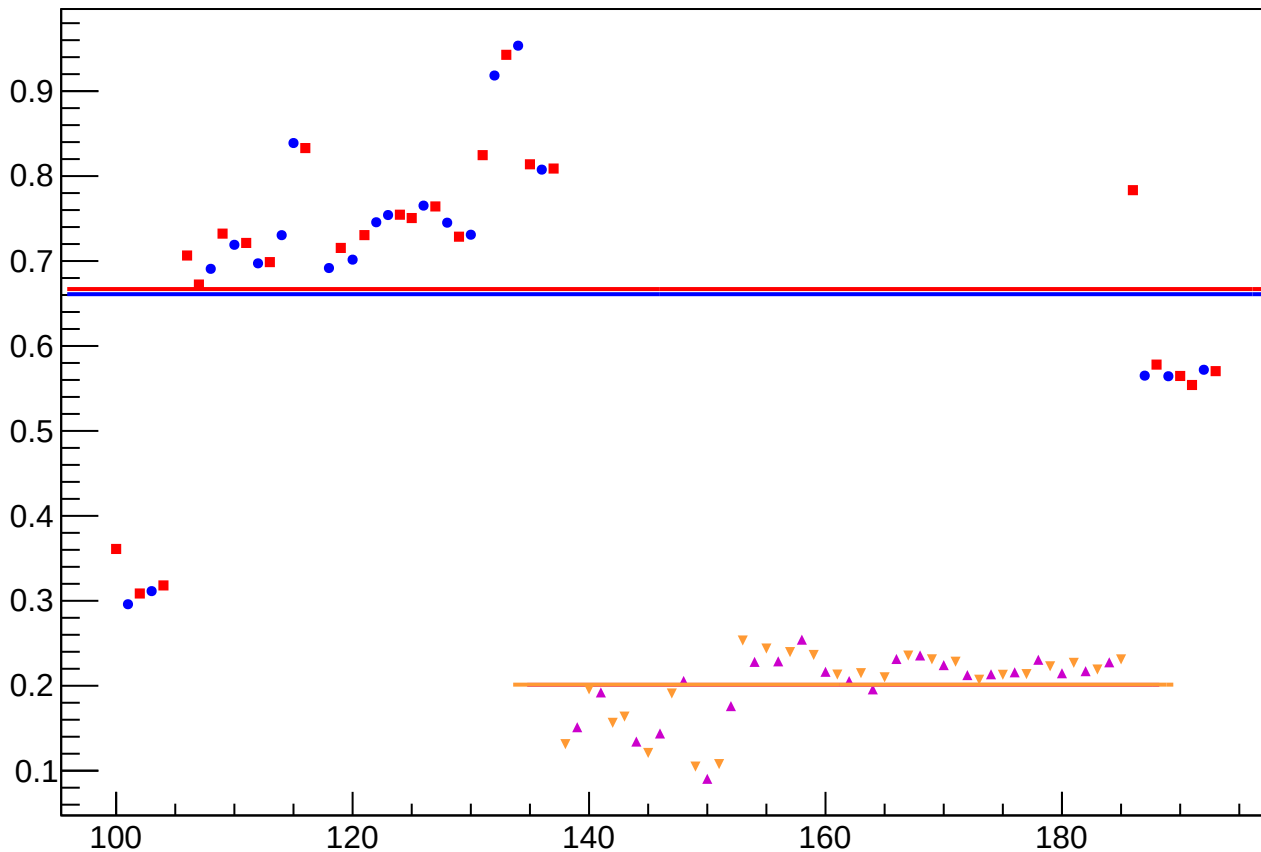
Right: 0.012 ± 0.000 $\chi^2/\text{NDF}: 972227.7/43$

In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 501916.8/42$

Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 746878.9/48$

All: 0.012 ± 0.000 $\chi^2/\text{NDF}: 1248926.5/91$

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.661 $\pm$ 0.000 χ^2 /NDF: 40383634185.9/19

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.667 $\pm$ 0.000 χ^2 /NDF: 39092714600.8/23

Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2 /NDF: 12762673178.0/47

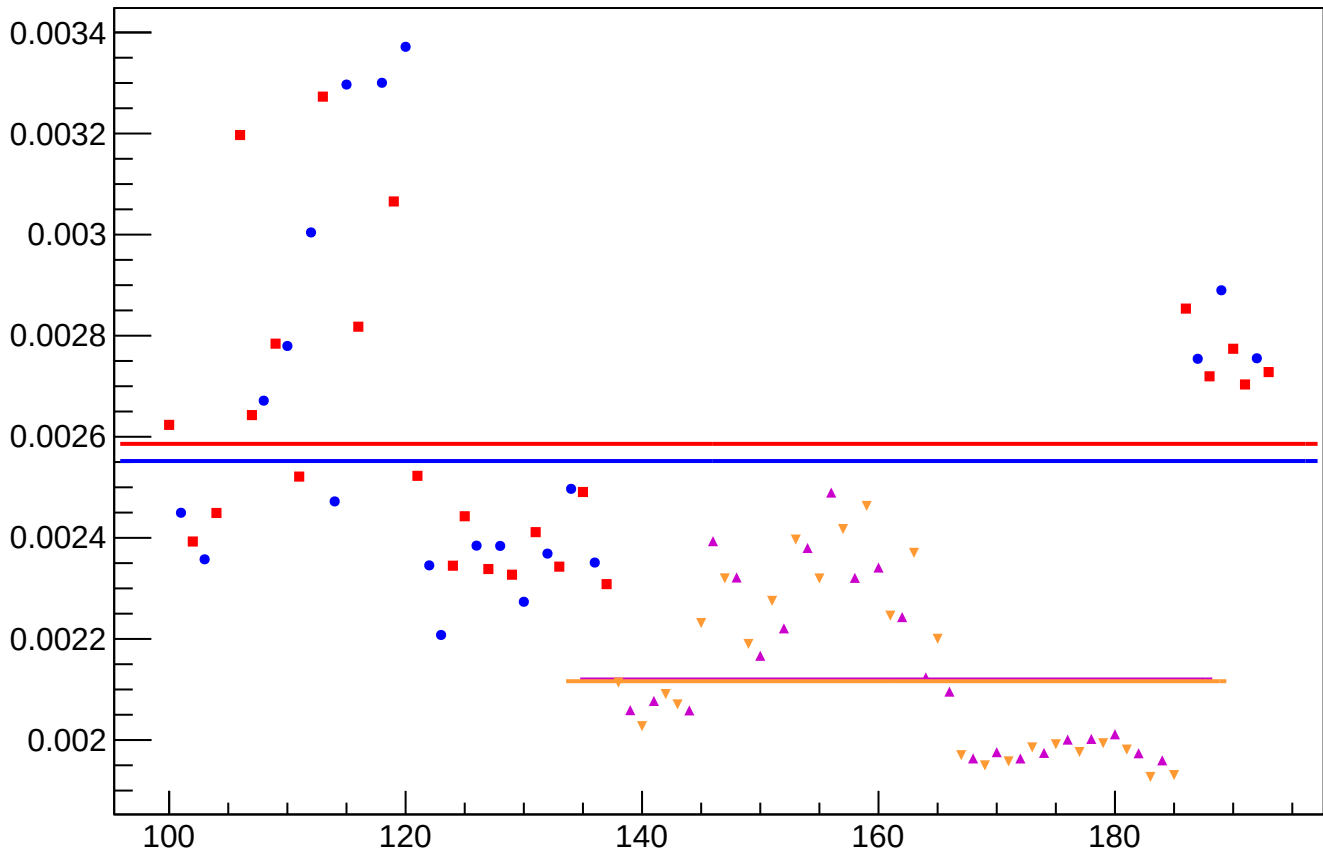
Right: 0.664 $\pm$ 0.000 χ^2 /NDF: 79499812382.7/43

In: 0.311 $\pm$ 0.000 χ^2 /NDF: 239012520780.0/42

Out: 0.319 $\pm$ 0.000 χ^2 /NDF: 268554163895.0/48

All: 0.315 $\pm$ 0.000 χ^2 /NDF: 507738227617.9

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2/NDF : 202314.9/19

Left Out: 0.002 $\pm$ 0.000 χ^2/NDF :224498.3/24

Right Out: 0.003 $\pm$ 0.000 χ^2/NDF : 155616.7/23

Left In: 0.002 $\pm$ 0.000 χ^2/NDF :189228.6/22

Left: 0.002 $\pm$ 0.000 χ^2/NDF : 413772.2/47

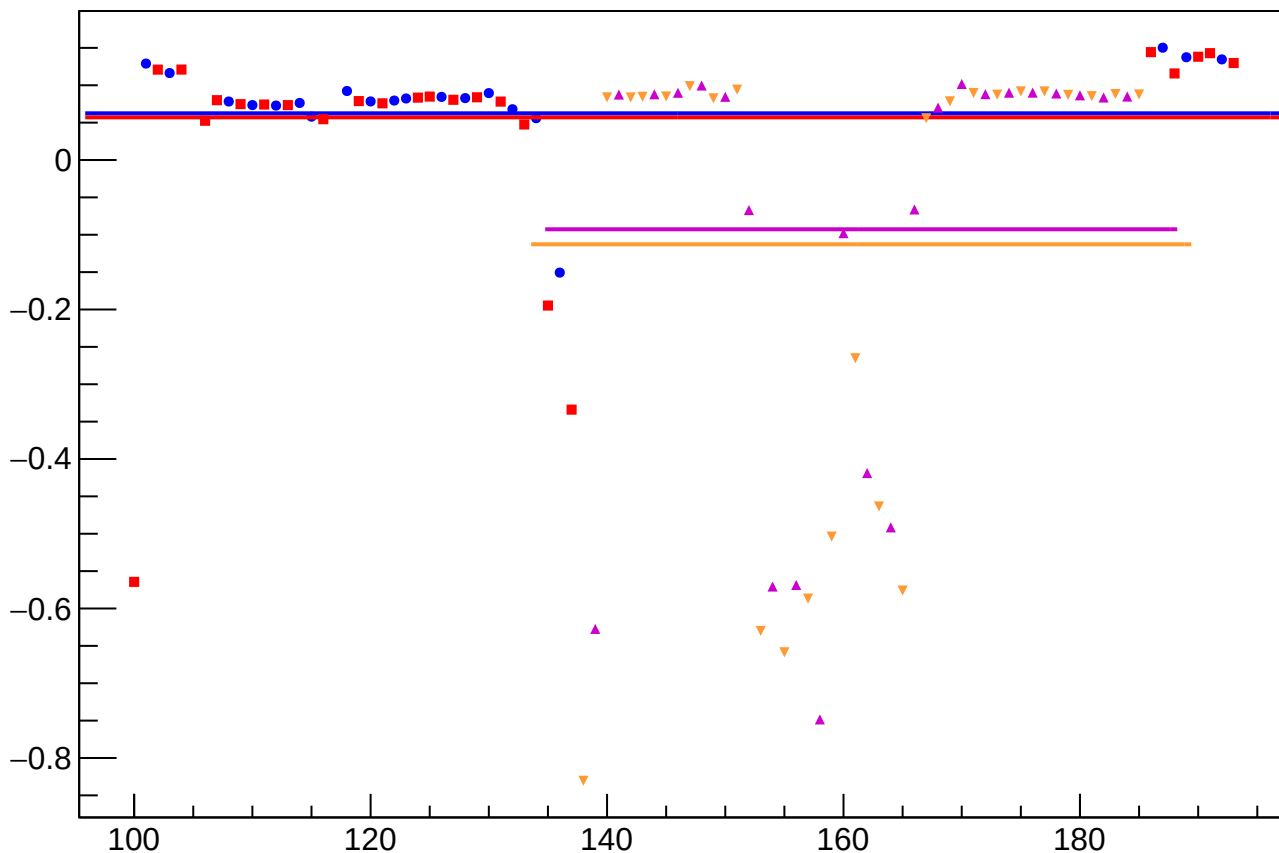
Right: 0.003 $\pm$ 0.000 χ^2/NDF : 359408.2/43

In: 0.002 $\pm$ 0.000 χ^2/NDF :732387.3/42

Out: 0.002 $\pm$ 0.000 χ^2/NDF :832306.3/48

All: 0.002 $\pm$ 0.000 χ^2/NDF : 1565451.3/91

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.062 $\pm$ 0.000

χ^2 /NDF: 460178446.4/19

Left: -0.103 $\pm$ 0.000

χ^2 /NDF: 24747894543.0/47

Left Out: -0.113 $\pm$ 0.000

χ^2 /NDF: 13667354077.1/24

Right: 0.060 $\pm$ 0.000

χ^2 /NDF: 1344684064.6/43

Right Out: 0.057 $\pm$ 0.000

χ^2 /NDF: 883334330.6/23

In: -0.039 $\pm$ 0.000

χ^2 /NDF: 12667341460.6/42

Left In: -0.093 $\pm$ 0.000

χ^2 /NDF: 11051944893.7/22

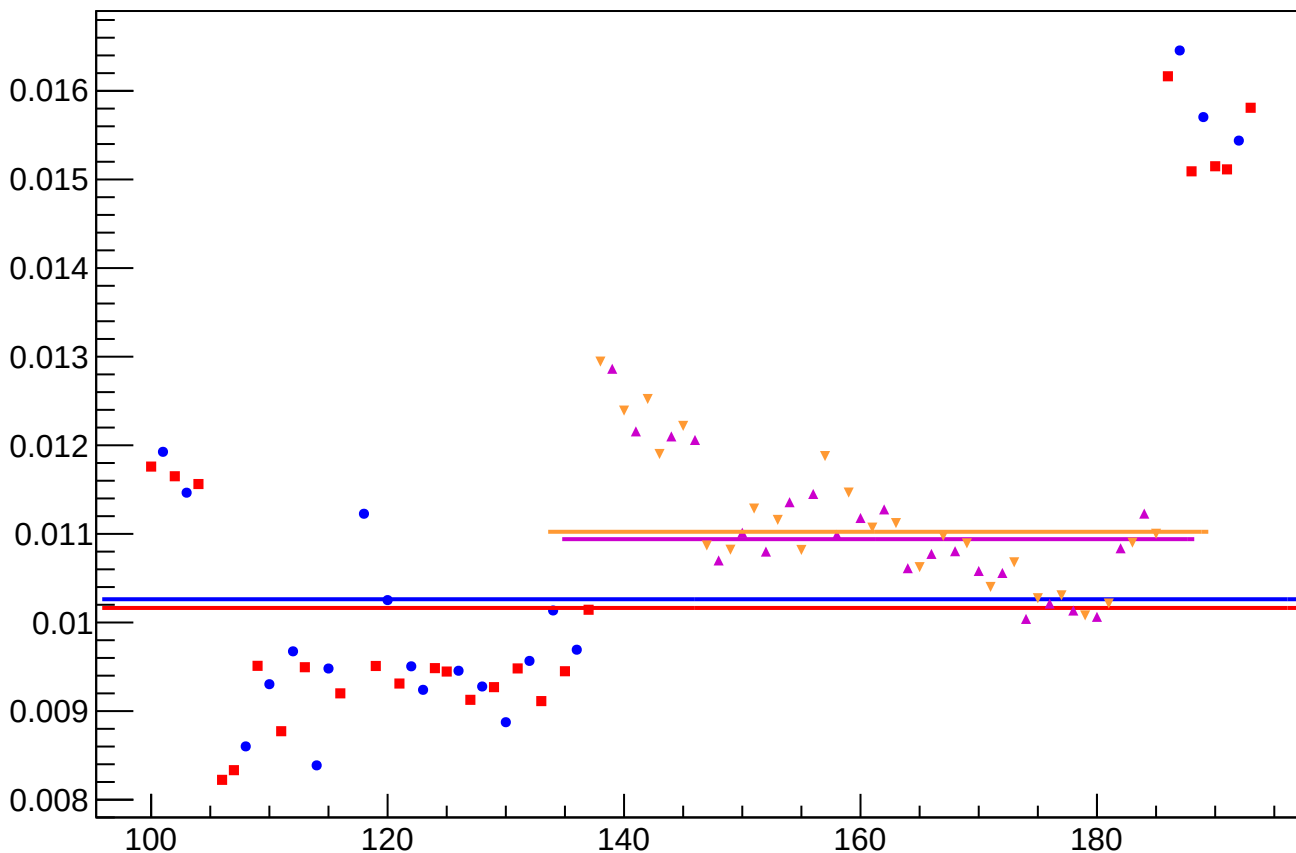
Out: -0.049 $\pm$ 0.000

χ^2 /NDF: 16126928473.8/48

All: -0.044 $\pm$ 0.000

χ^2 /NDF: 28804664426.8/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 502823.9/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 783025.9/23

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 271400.1/47

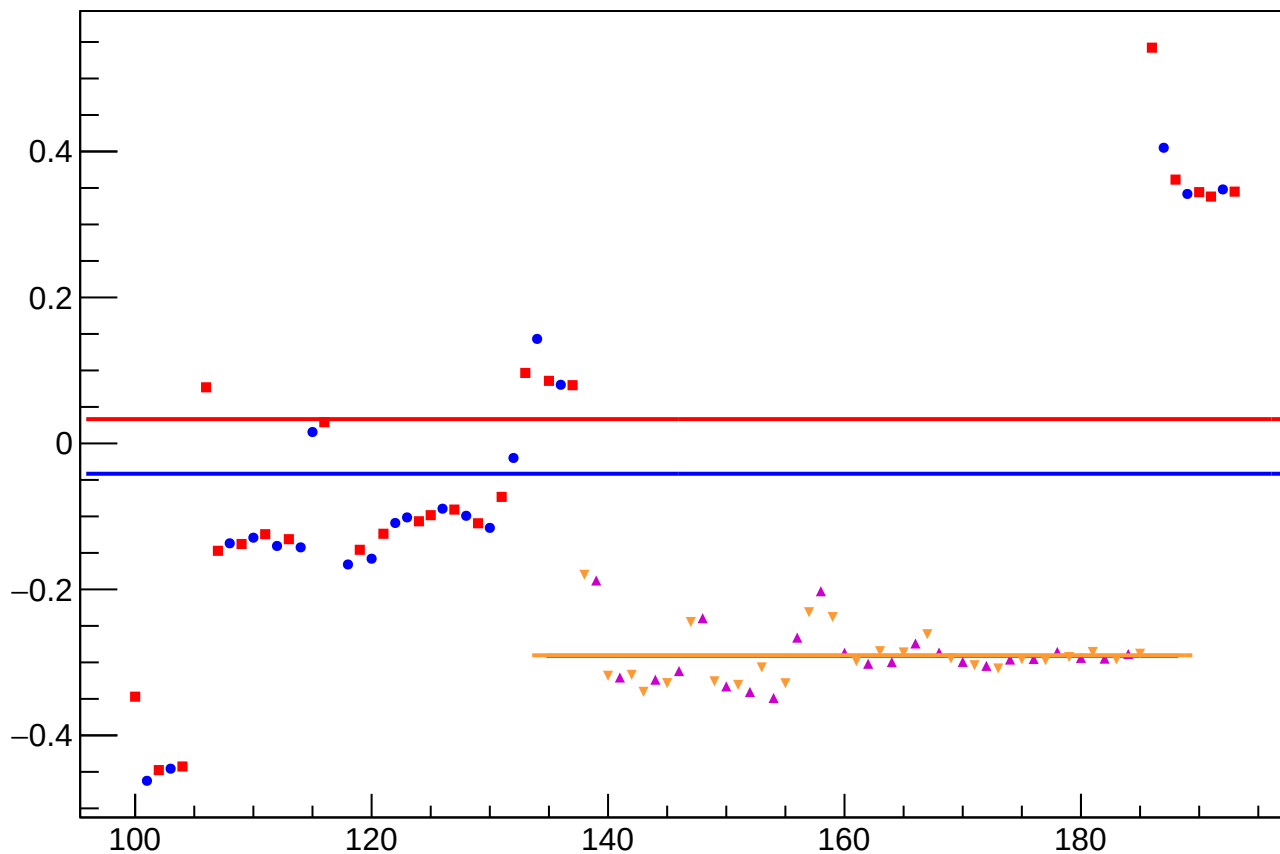
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 1286623.5/43

In: 0.011 $\pm$ 0.000 χ^2 /NDF:675854.6/42

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1005311.3/48

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1681175.4/91

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.042 ± 0.000 $\chi^2/\text{NDF}: 32829437881.7/19$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: 0.033 ± 0.000 $\chi^2/\text{NDF}: 42839834814.6/23$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

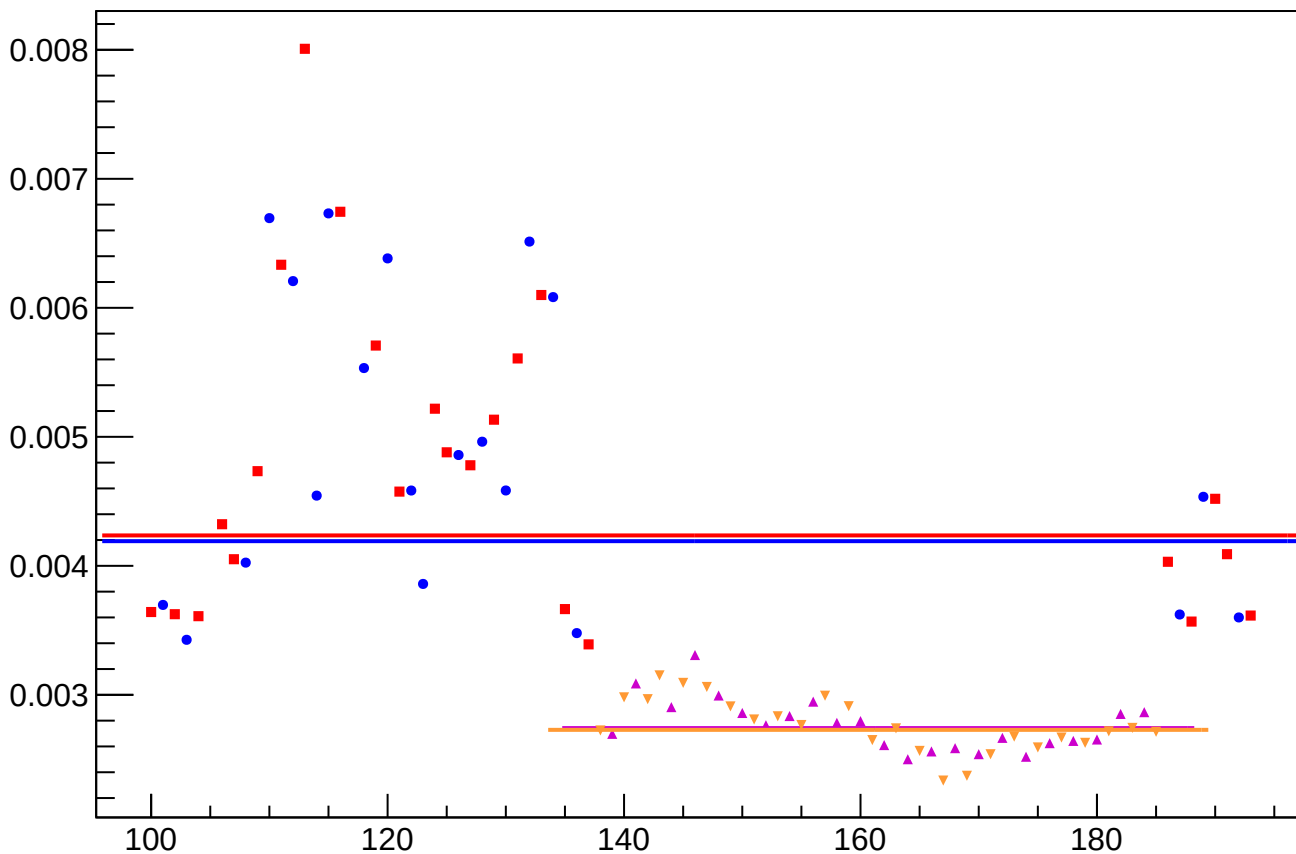
Right: -0.001 ± 0.000 $\chi^2/\text{NDF}: 76907228487.9/43$

In: -0.252 ± 0.000 $\chi^2/\text{NDF}: 57510789325.3/42$

Out: -0.236 ± 0.000 $\chi^2/\text{NDF}: 87371847161.6/48$

All: -0.243 ± 0.000 $\chi^2/\text{NDF}: 145232520948.7$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 686409.7/19

Left Out: 0.003+/-0.000 χ^2/NDF : 206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 783497.5/23

Left In: 0.003+/-0.000 χ^2/NDF : 147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

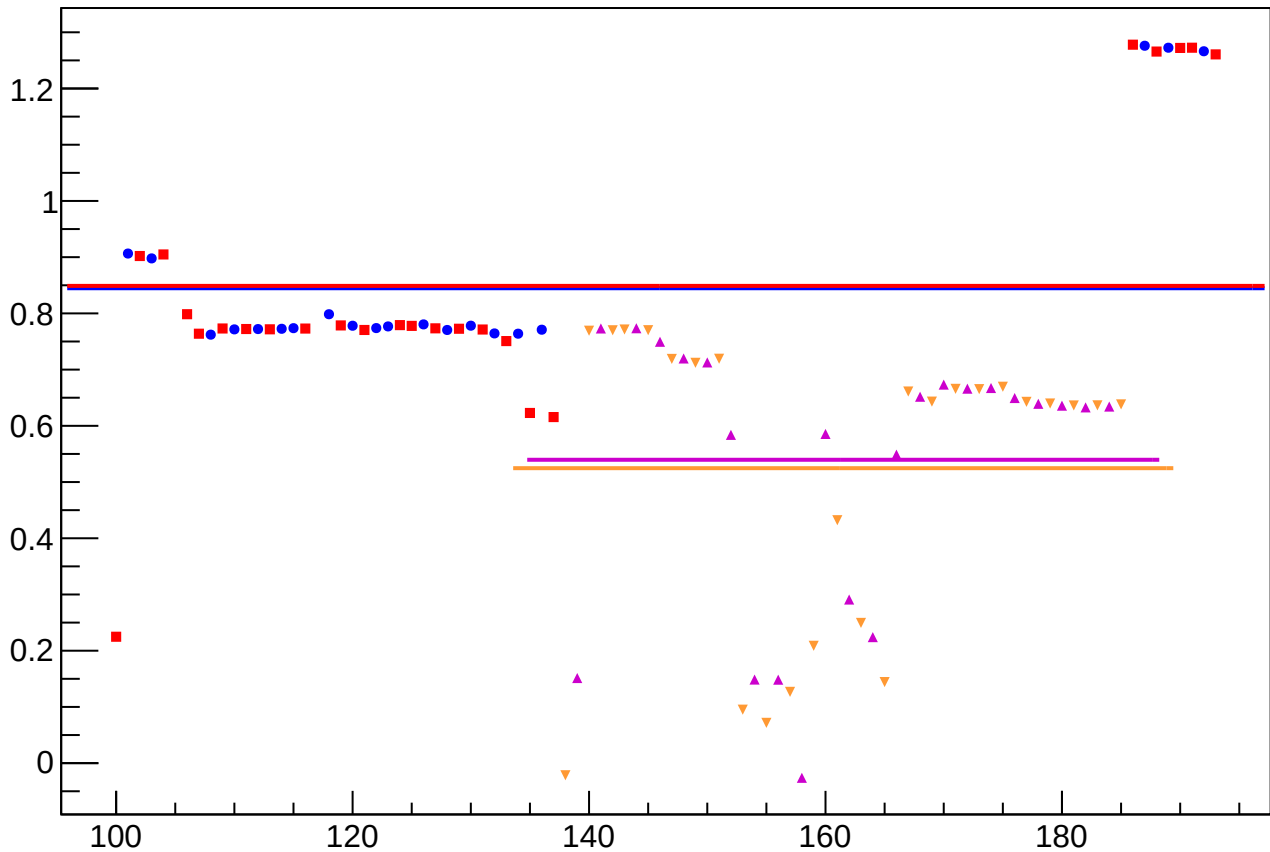
Right: 0.004+/-0.000 χ^2/NDF : 1470779.6/43

In: 0.003+/-0.000 χ^2/NDF : 2288282.3/42

Out: 0.003+/-0.000 χ^2/NDF : 2797659.8/48

All: 0.003+/-0.000 χ^2/NDF : 5086348.8/91

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.845+/-0.000 χ^2/NDF : 1489697382.2/19

Left Out: 0.525+/-0.000 χ^2/NDF : 9623503169.9/24

Right Out: 0.849+/-0.000 χ^2/NDF : 2822633576.1/23

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532+/-0.000 χ^2/NDF : 17500739852.2/47

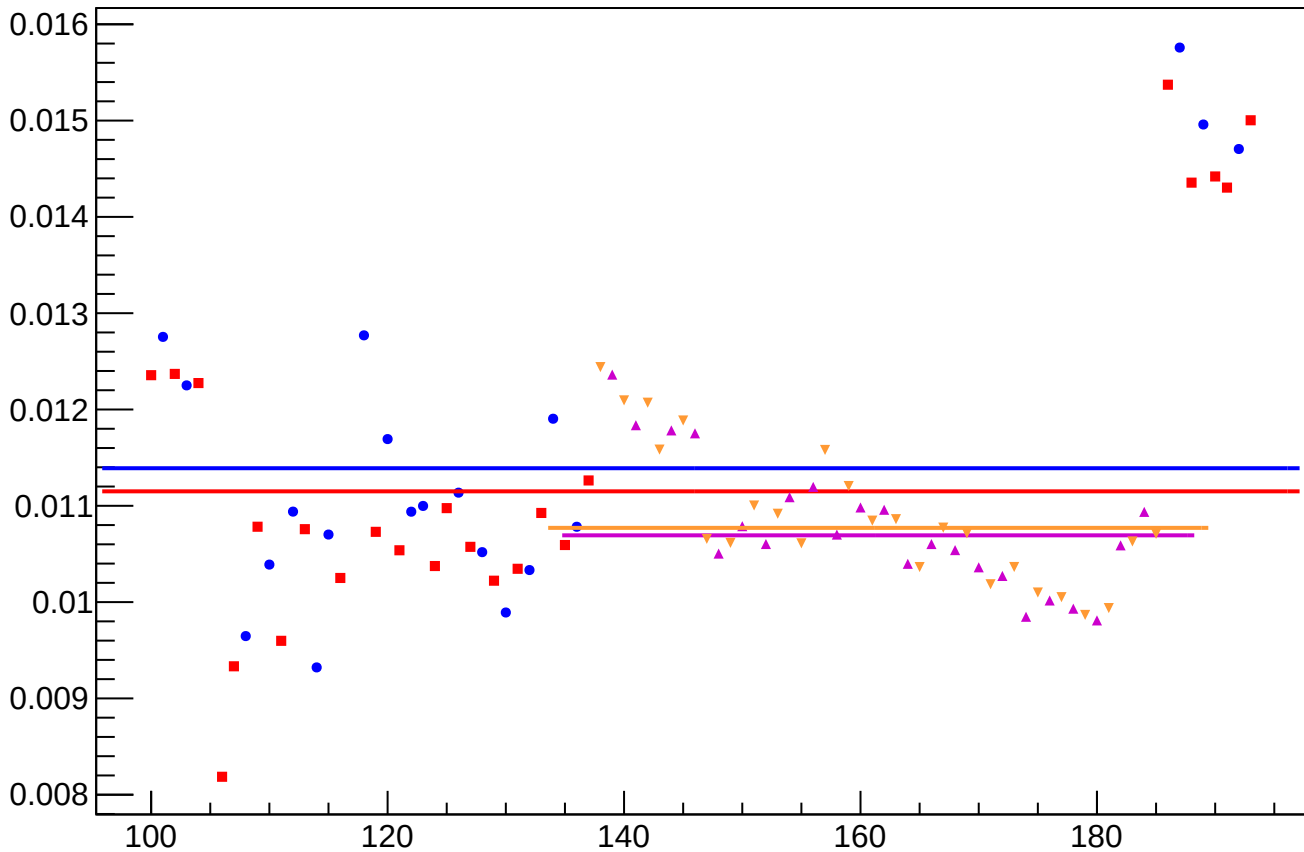
Right: 0.847+/-0.000 χ^2/NDF : 4312913267.6/43

In: 0.629+/-0.000 χ^2/NDF : 13326973967.7/42

Out: 0.631+/-0.000 χ^2/NDF : 17696548812.2/48

All: 0.630+/-0.000 χ^2/NDF : 31023916671.7/95

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 285048.9/19

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 467574.8/23

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

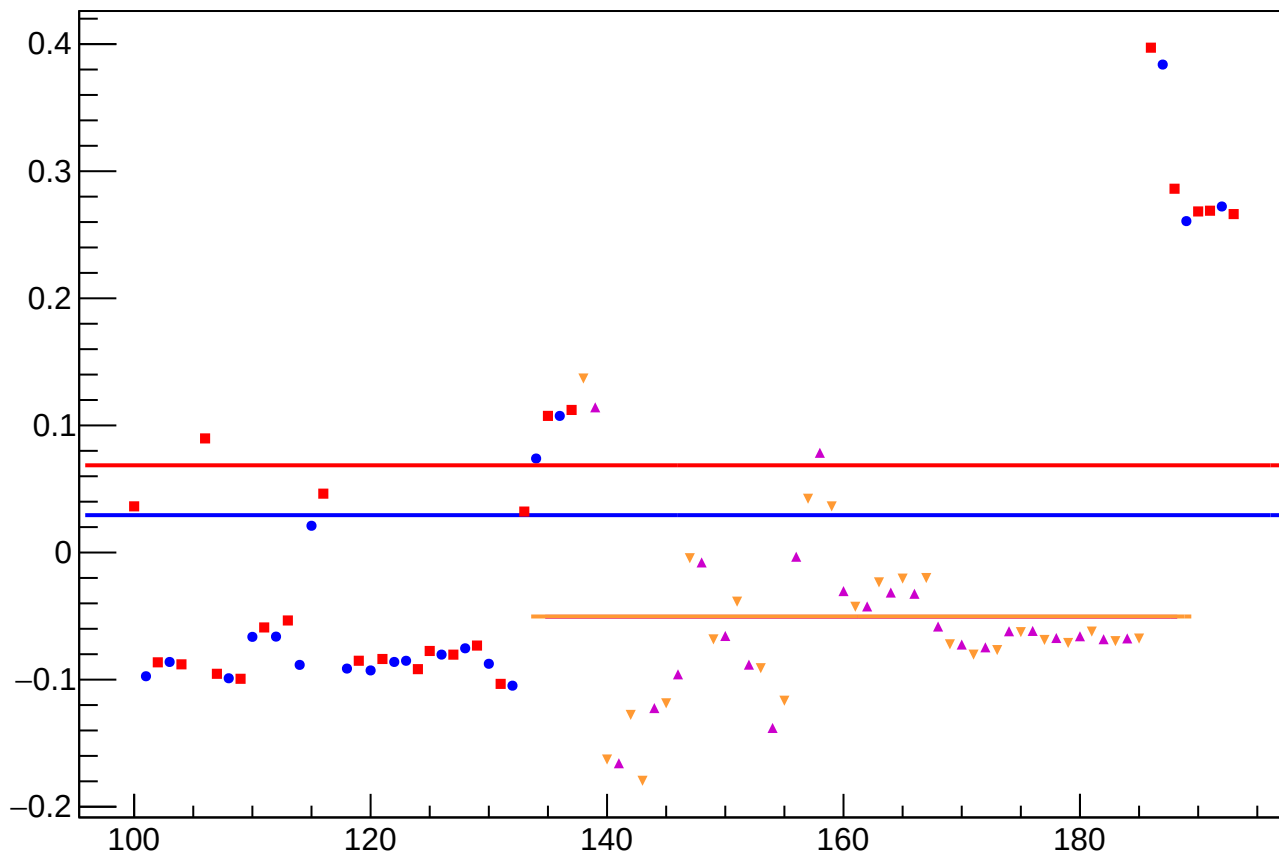
Right: 0.011+/-0.000 χ^2/NDF : 756462.0/43

In: 0.011+/-0.000 χ^2/NDF :445812.1/42

Out: 0.011+/-0.000 χ^2/NDF :613567.2/48

All: 0.011+/-0.000 χ^2/NDF : 1059380.3/91

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.029+/-0.000

χ^2/NDF : 8053305876.6/19

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.050+/-0.000

χ^2/NDF : 19844296499.8/43

Right Out: 0.069+/-0.000

χ^2/NDF : 11486796127.2/23

In: -0.037+/-0.000

χ^2/NDF : 16159865458.8/42

Out: -0.029+/-0.000

χ^2/NDF : 23637922322.7/48

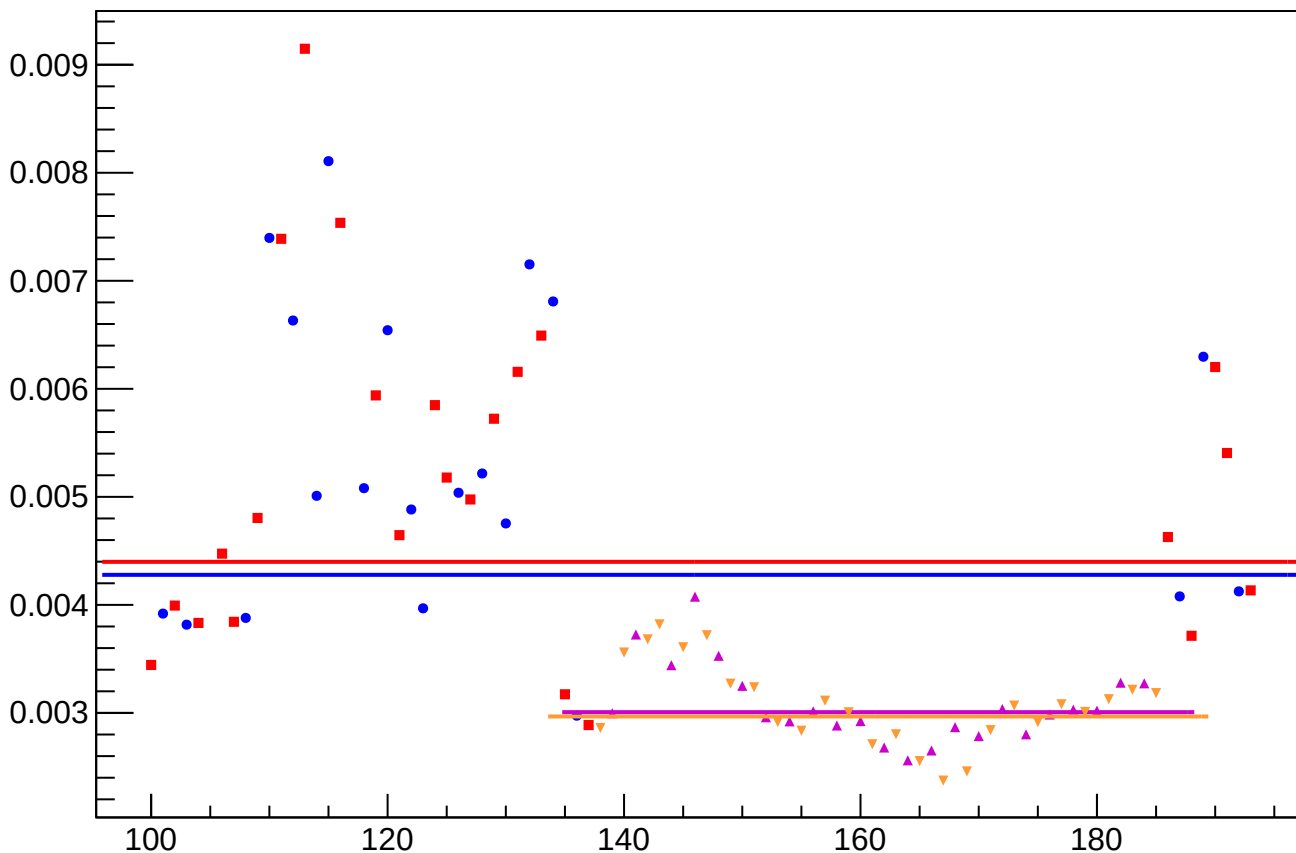
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: -0.033+/-0.000

χ^2/NDF : 39861329318.9/47

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 974766.4/19

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:499039.1/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1102813.9/23

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:329068.1/22

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 831077.6/47

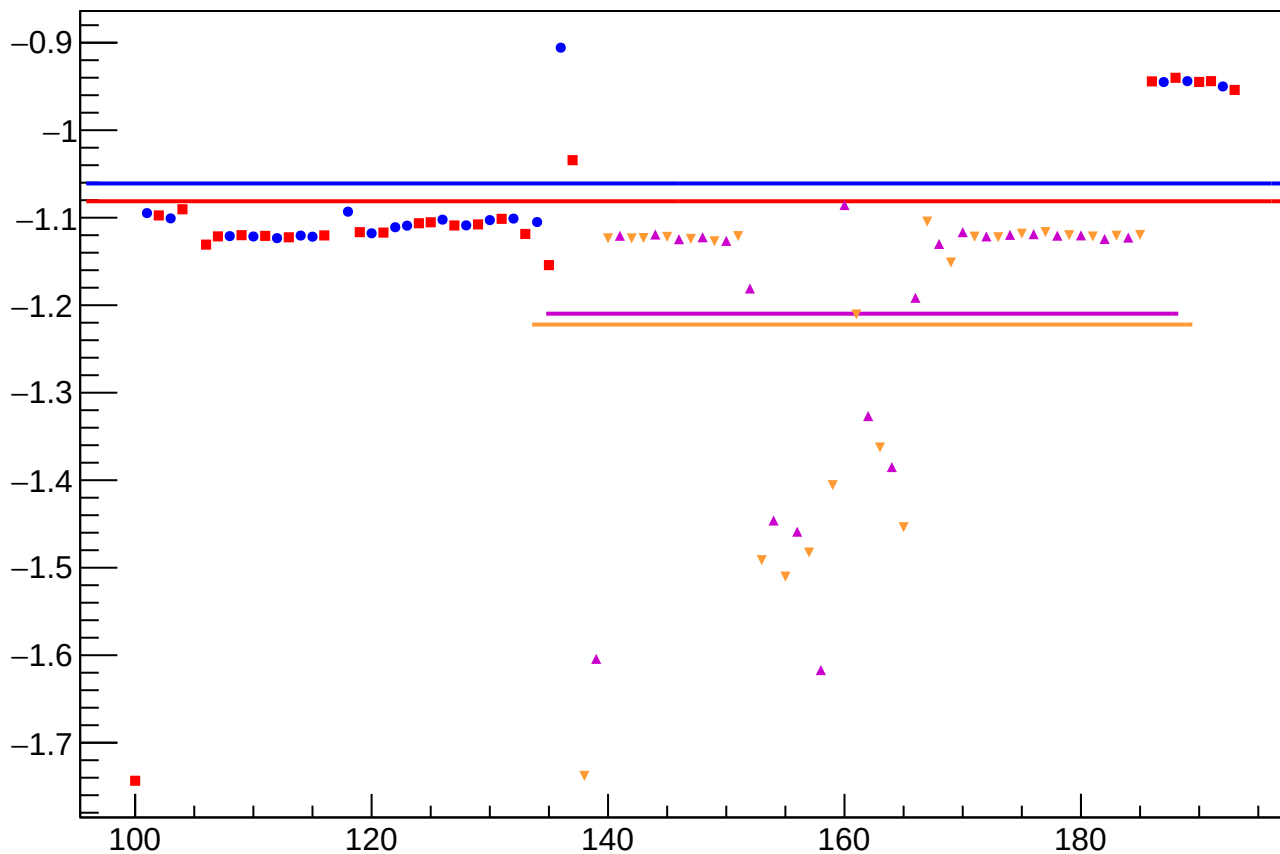
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 2083318.6/43

In: 0.003 $\pm$ 0.000 χ^2 /NDF:2302720.5/42

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:3015335.9/48

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 5318145.5/91

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.061 ± 0.000 $\chi^2/\text{NDF}: 337262468.0/19$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.081 ± 0.000 $\chi^2/\text{NDF}: 581531019.4/23$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.216 ± 0.000 $\chi^2/\text{NDF}: 9796254294.5/47$

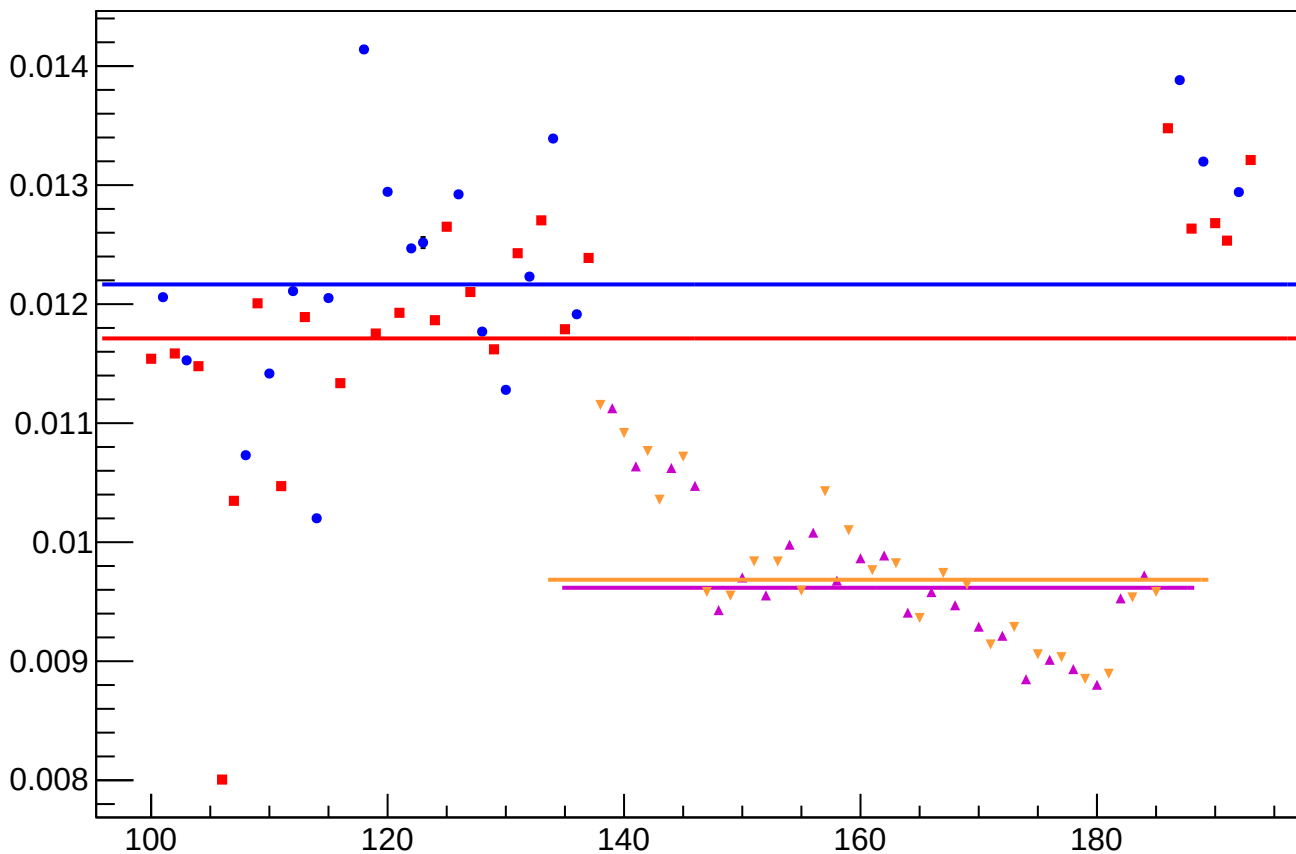
Right: -1.072 ± 0.000 $\chi^2/\text{NDF}: 931171923.4/43$

In: -1.176 ± 0.000 $\chi^2/\text{NDF}: 5753762976.8/42$

Out: -1.185 ± 0.000 $\chi^2/\text{NDF}: 6854183587.4/48$

All: -1.181 ± 0.000 $\chi^2/\text{NDF}: 12618168136.3/100$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 78206.7/19

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 210924.2/23

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

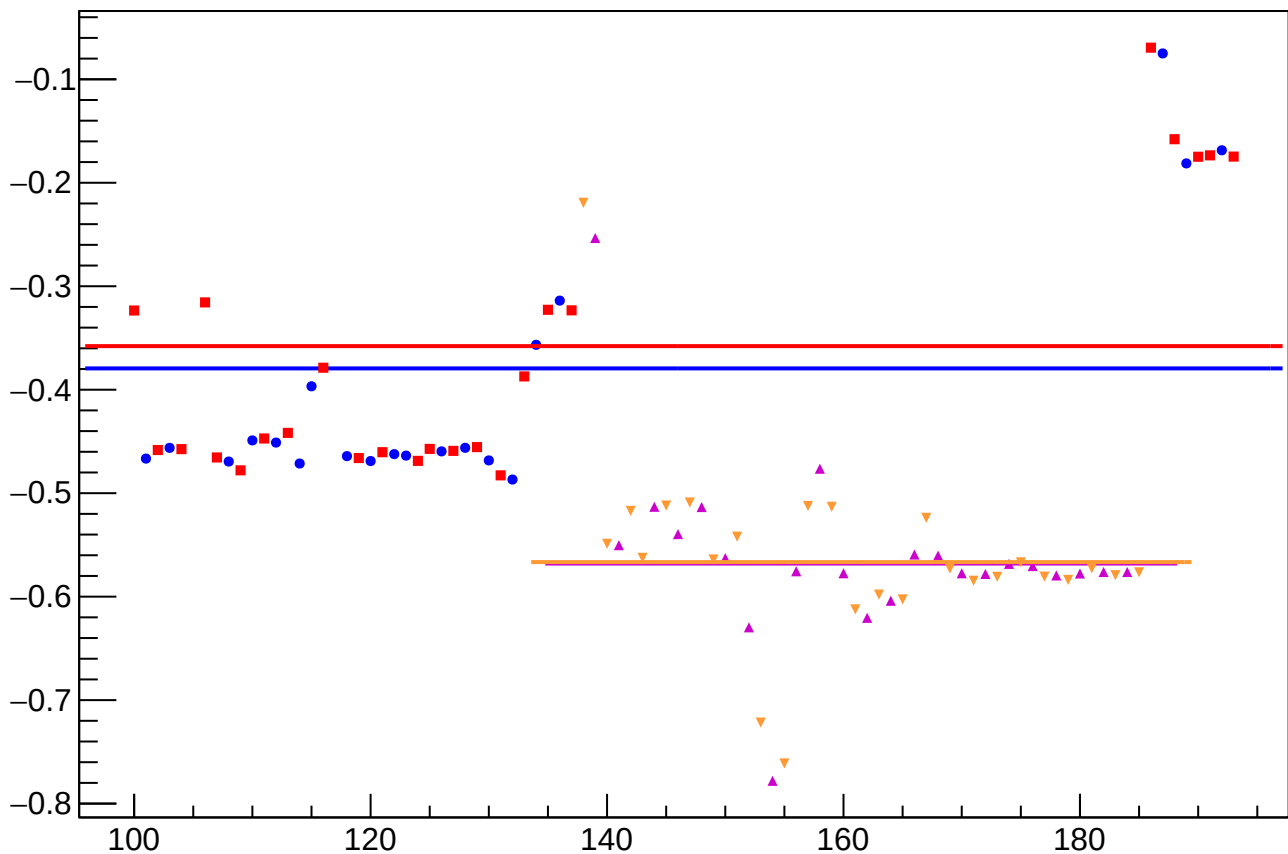
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 301443.8/43

In: 0.010 $\pm$ 0.000 χ^2 /NDF:734264.1/42

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:756934.4/48

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 1491322.7/91

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.379+/-0.000 χ^2/NDF : 6306307185.8/19

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.358+/-0.000 χ^2/NDF : 8914780416.4/23

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

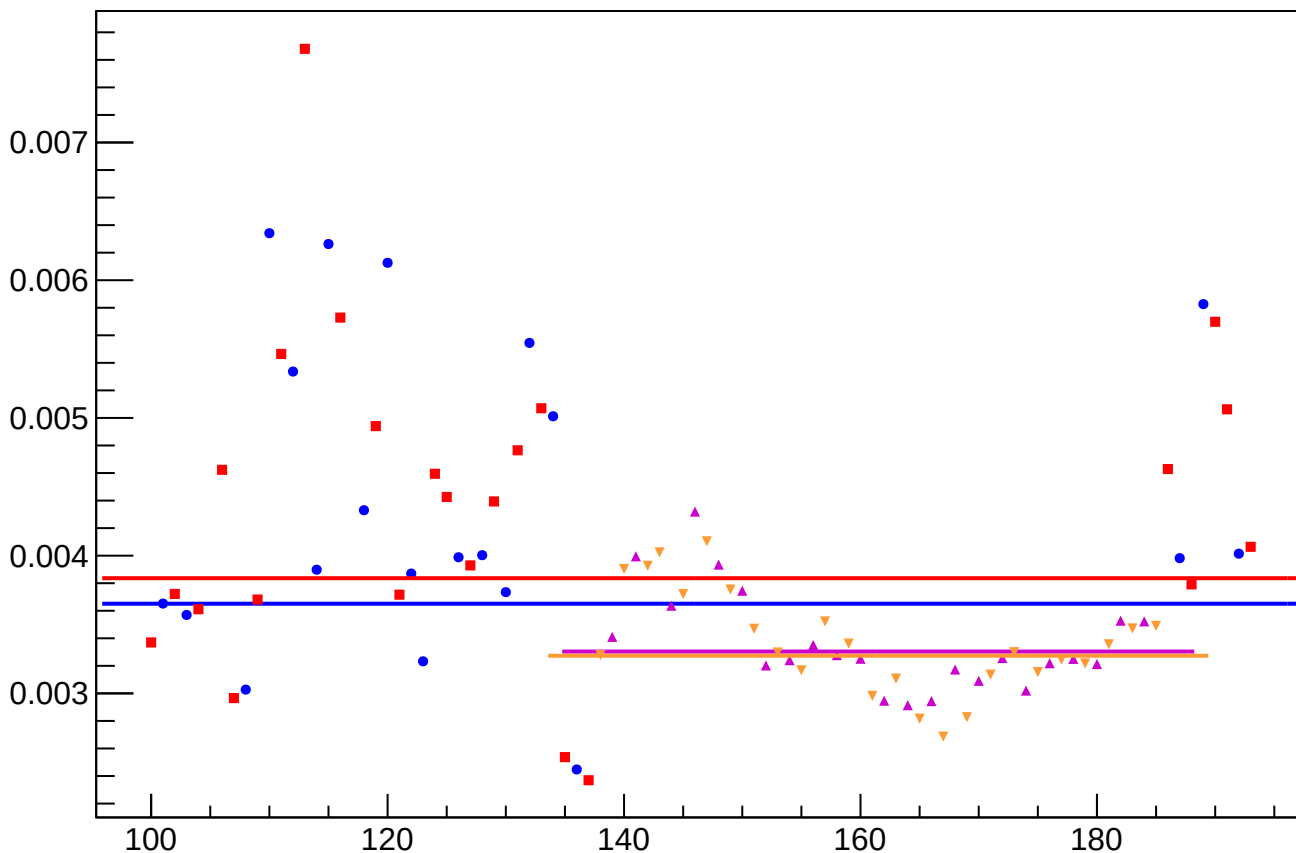
Right: -0.368+/-0.000 χ^2/NDF : 15344155751.1/43

In: -0.520+/-0.000 χ^2/NDF : 30235226635.6/42

Out: -0.513+/-0.000 χ^2/NDF : 40216587230.6/48

All: -0.516+/-0.000 χ^2/NDF : 70499095114.2/97

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 986043.9/19

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1018149.4/23

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

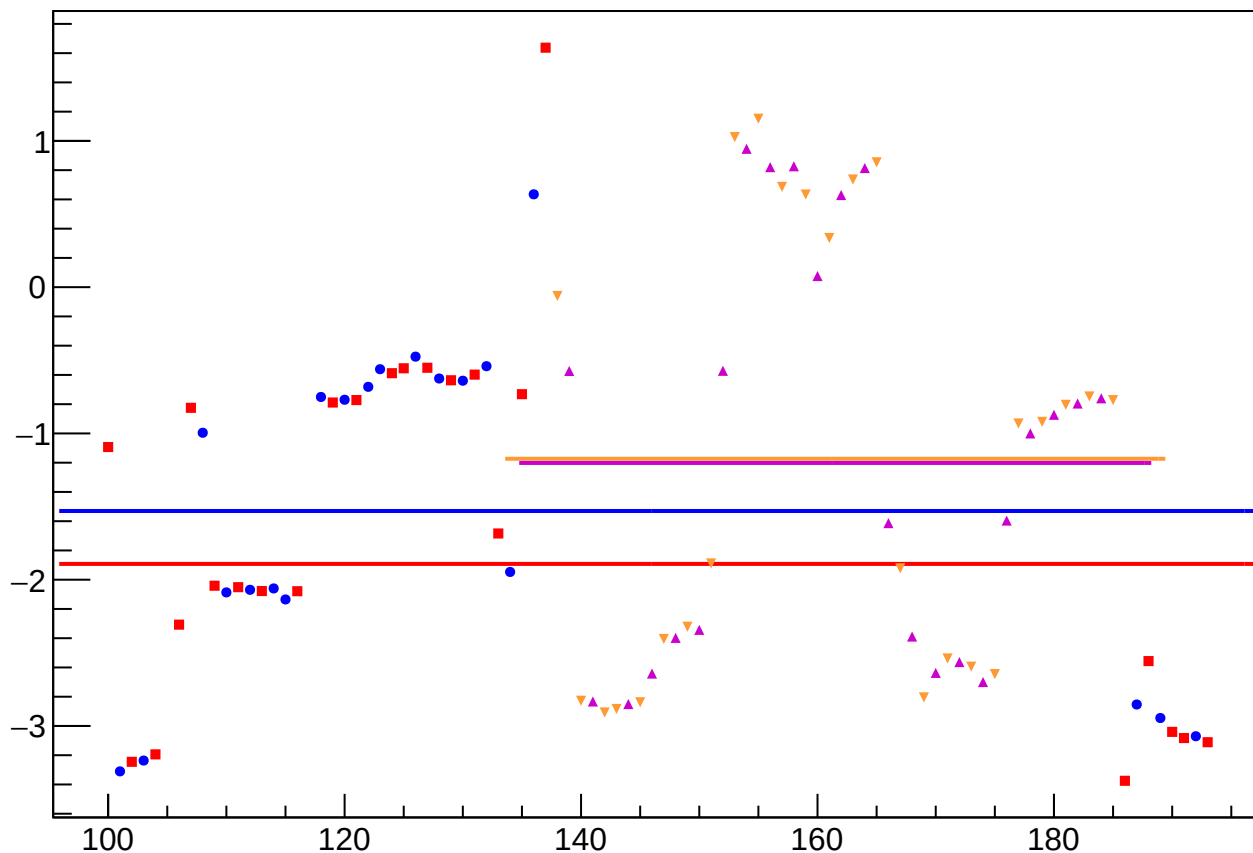
Right: 0.004+/-0.000 χ^2/NDF : 2022409.7/43

In: 0.003+/-0.000 χ^2/NDF : 1363517.9/42

Out: 0.003+/-0.000 χ^2/NDF : 1673969.9/48

All: 0.003+/-0.000 χ^2/NDF : 3038825.8/91

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.530 $\pm$ 0.000 χ^2 /NDF: 2734047243.6/19

Left Out: -1.173 $\pm$ 0.000 χ^2 /NDF: 6882684653.2/24

Right Out: -1.892 $\pm$ 0.000 χ^2 /NDF: 2460495689.1/23

Left In: -1.202 $\pm$ 0.000 χ^2 /NDF: 5606782515.9/22

Left: -1.187 $\pm$ 0.000 χ^2 /NDF: 12490828303.3/47

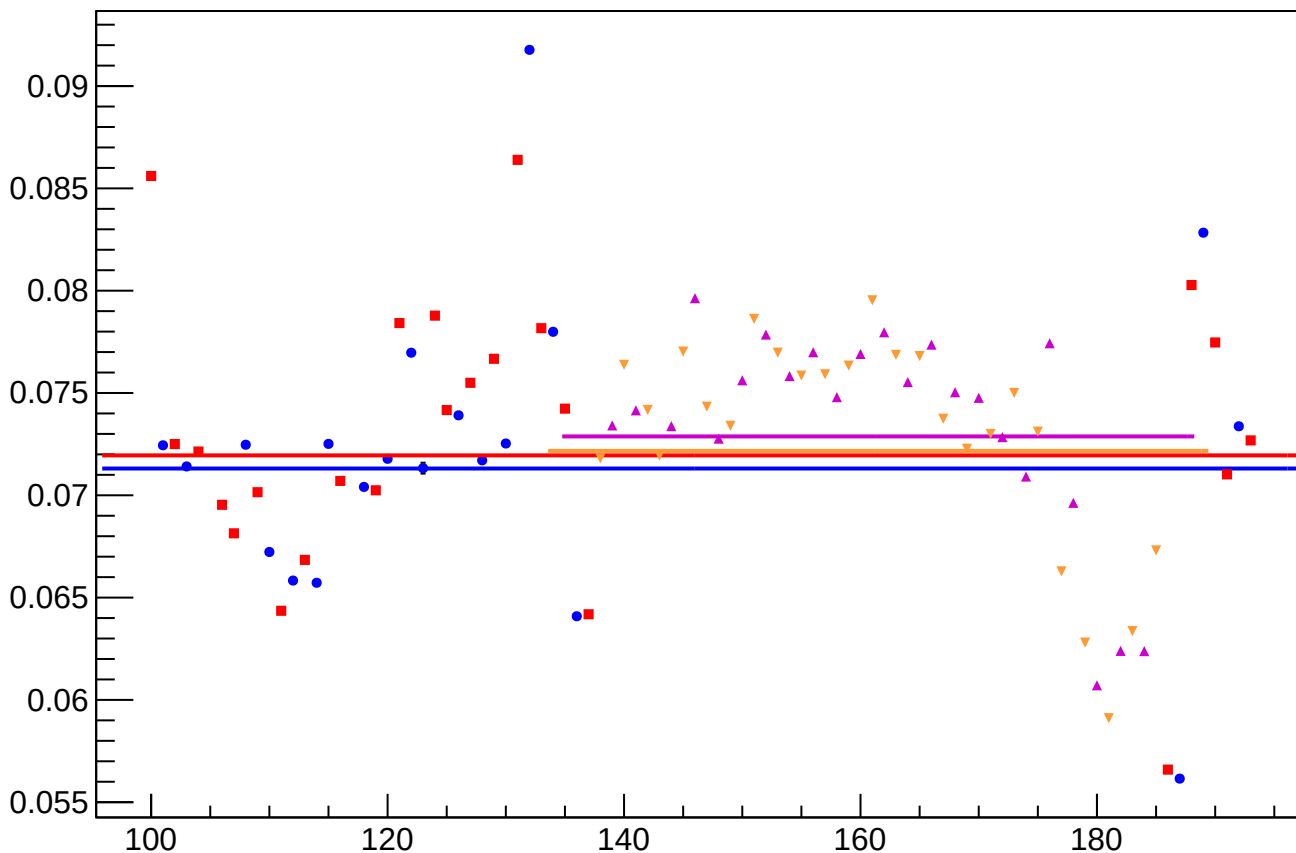
Right: -1.724 $\pm$ 0.000 χ^2 /NDF: 5305467396.1/43

In: -1.311 $\pm$ 0.000 χ^2 /NDF: 8454889007.5/42

Out: -1.421 $\pm$ 0.000 χ^2 /NDF: 9960699001.2/48

All: -1.369 $\pm$ 0.000 χ^2 /NDF: 18446377403.9/94

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 117374.5/19

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.072+/-0.000 χ^2/NDF : 145673.5/23

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

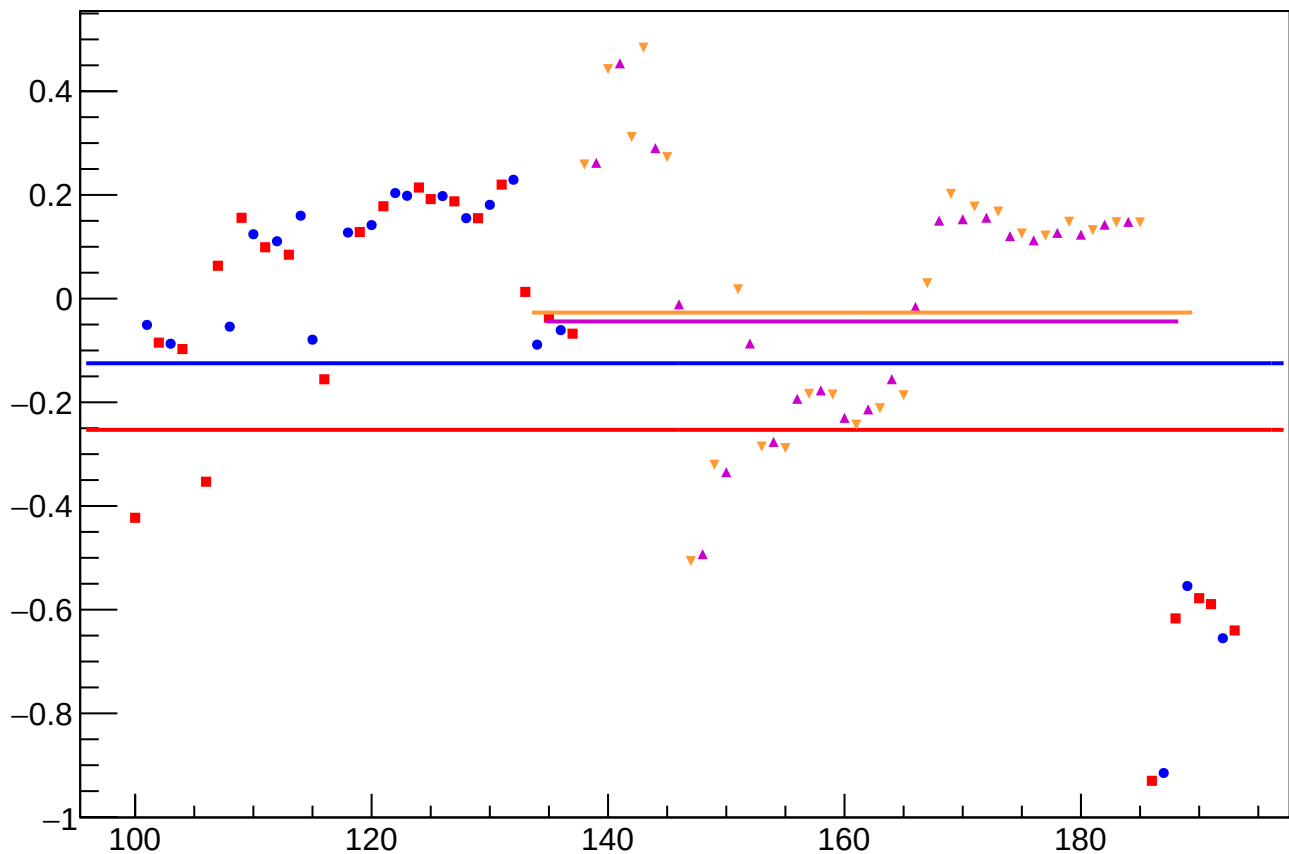
Right: 0.072+/-0.000 χ^2/NDF : 263748.4/43

In: 0.072+/-0.000 χ^2/NDF :306084.1/42

Out: 0.072+/-0.000 χ^2/NDF :368052.8/48

All: 0.072+/-0.000 χ^2/NDF : 674482.5/91

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.125+/-0.000

χ^2/NDF : 5310012494.8/19

Left: -0.035+/-0.000

χ^2/NDF : 36148383394.4/47

Left Out: -0.027+/-0.000

χ^2/NDF : 20376761328.6/24

Right: -0.197+/-0.000

χ^2/NDF : 14356164444.2/43

Right Out: -0.253+/-0.000

χ^2/NDF : 8527631322.0/23

In: -0.055+/-0.000

χ^2/NDF : 21341631322.2/42

Out: -0.063+/-0.000

χ^2/NDF : 31990061061.0/48

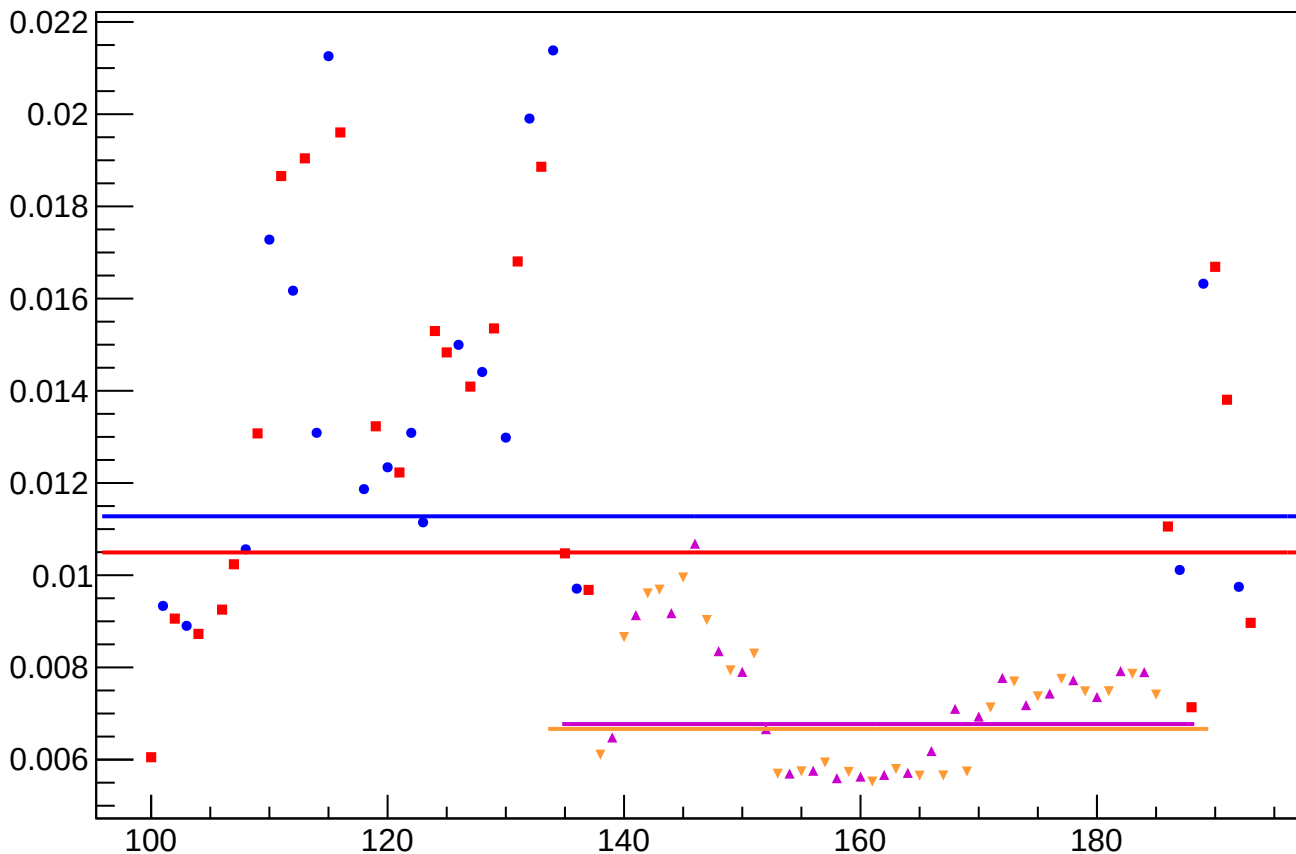
Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

All: -0.059+/-0.000

χ^2/NDF : 53344232618.0/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 807619.4/19

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1550278.4/23

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

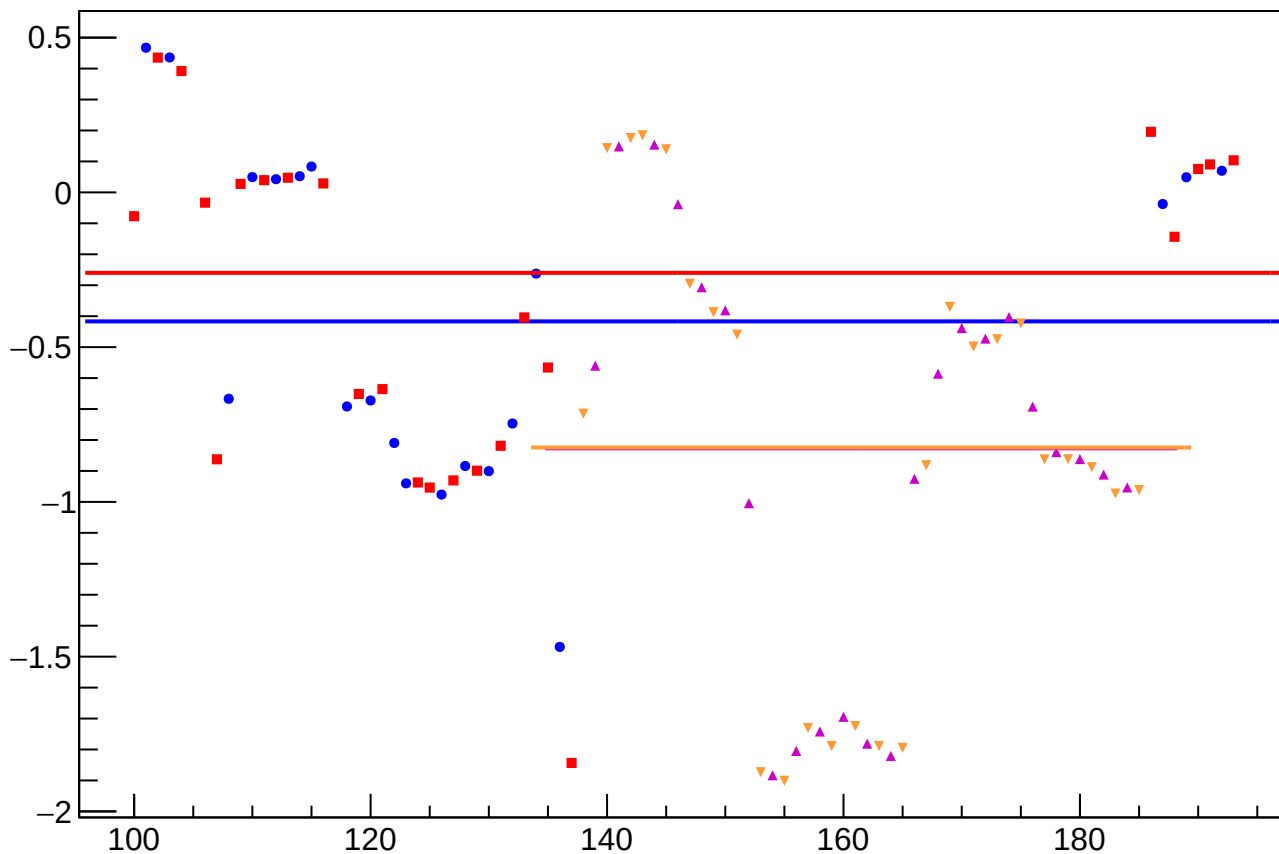
Right: 0.011+/-0.000 χ^2/NDF : 2396510.4/43

In: 0.007+/-0.000 χ^2/NDF :3697178.9/42

Out: 0.007+/-0.000 χ^2/NDF :4461437.5/48

All: 0.007+/-0.000 χ^2/NDF : 8165084.9/91

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 388652744.6/19

Left Out: -0.824+/-0.000 χ^2/NDF :1103610806.5/24

Right Out: -0.260+/-0.000 χ^2/NDF : 319806857.2/23

Left In: -0.827+/-0.000 χ^2/NDF :921651117.3/22

Left: -0.826+/-0.000 χ^2/NDF : 2025270716.0/47

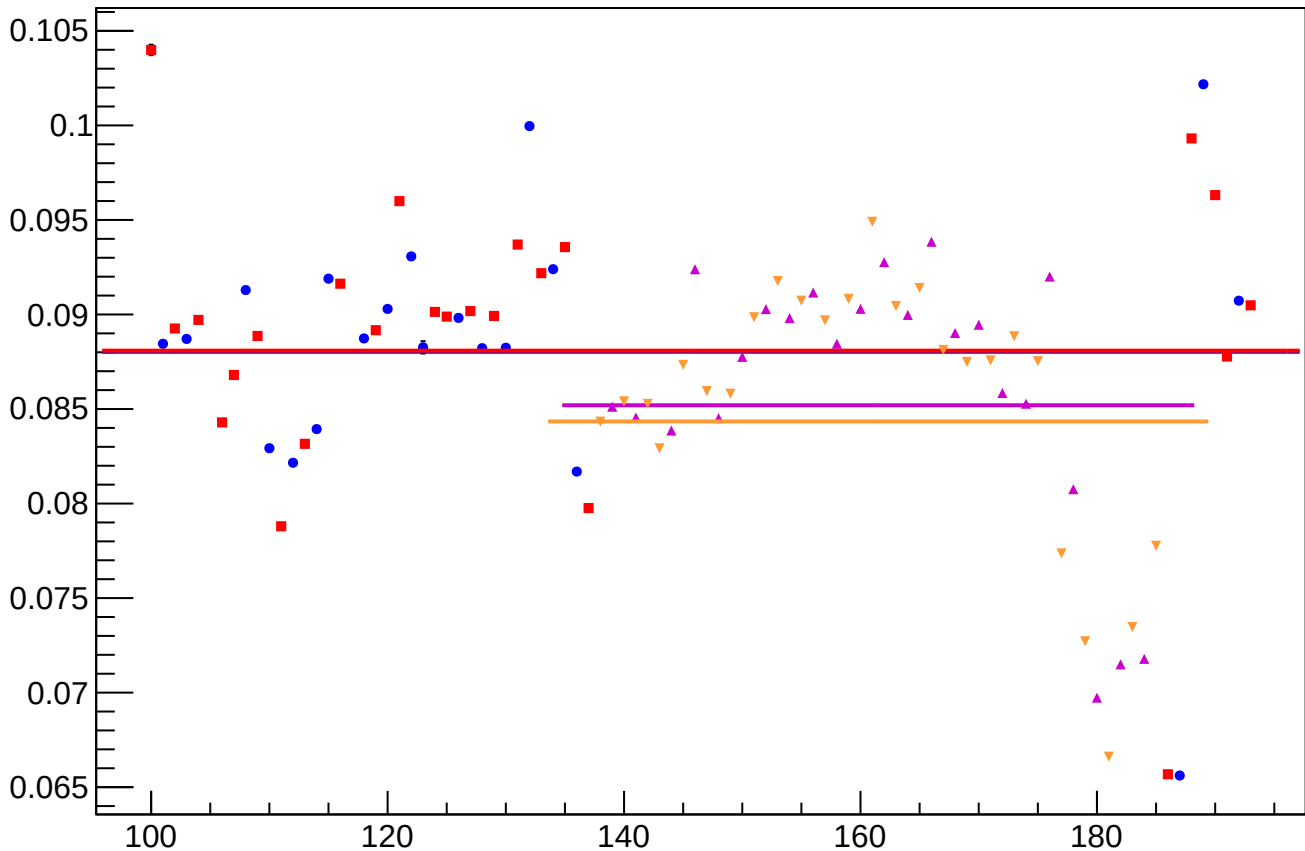
Right: -0.332+/-0.000 χ^2/NDF : 722446397.6/43

In: -0.700+/-0.000 χ^2/NDF :1432865031.9/42

Out: -0.640+/-0.000 χ^2/NDF :1688667873.4/48

All: -0.669+/-0.000 χ^2/NDF : 3127994684.4/9

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 89763.9/19

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.088 $\pm$ 0.000 χ^2 /NDF: 156486.5/23

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

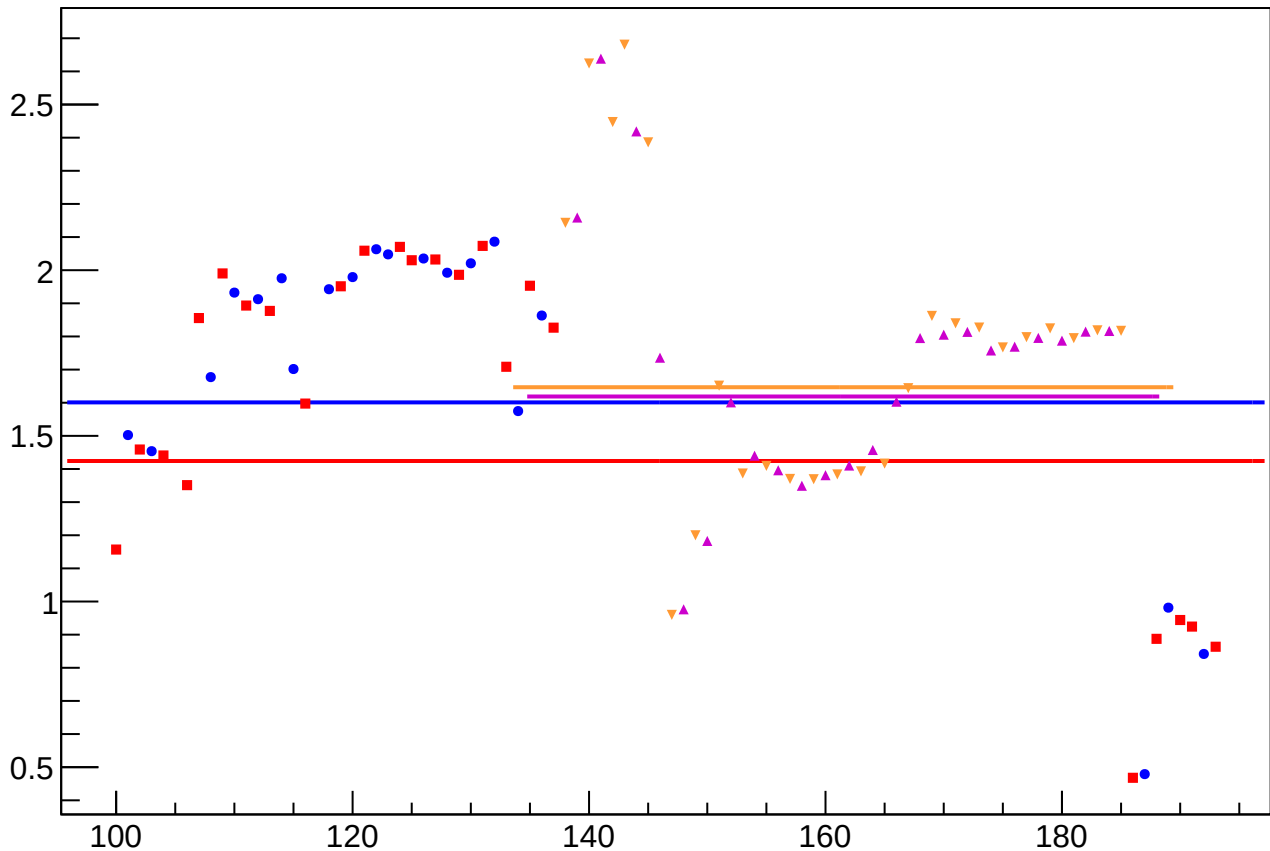
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 246253.9/43

In: 0.086 $\pm$ 0.000 χ^2 /NDF:339758.2/42

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:468153.8/48

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 808848.1/91

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.601 $\pm$ 0.000 χ^2 /NDF: 6443673996.8/19

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.424 $\pm$ 0.000 χ^2 /NDF: 9756632252.4/23

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

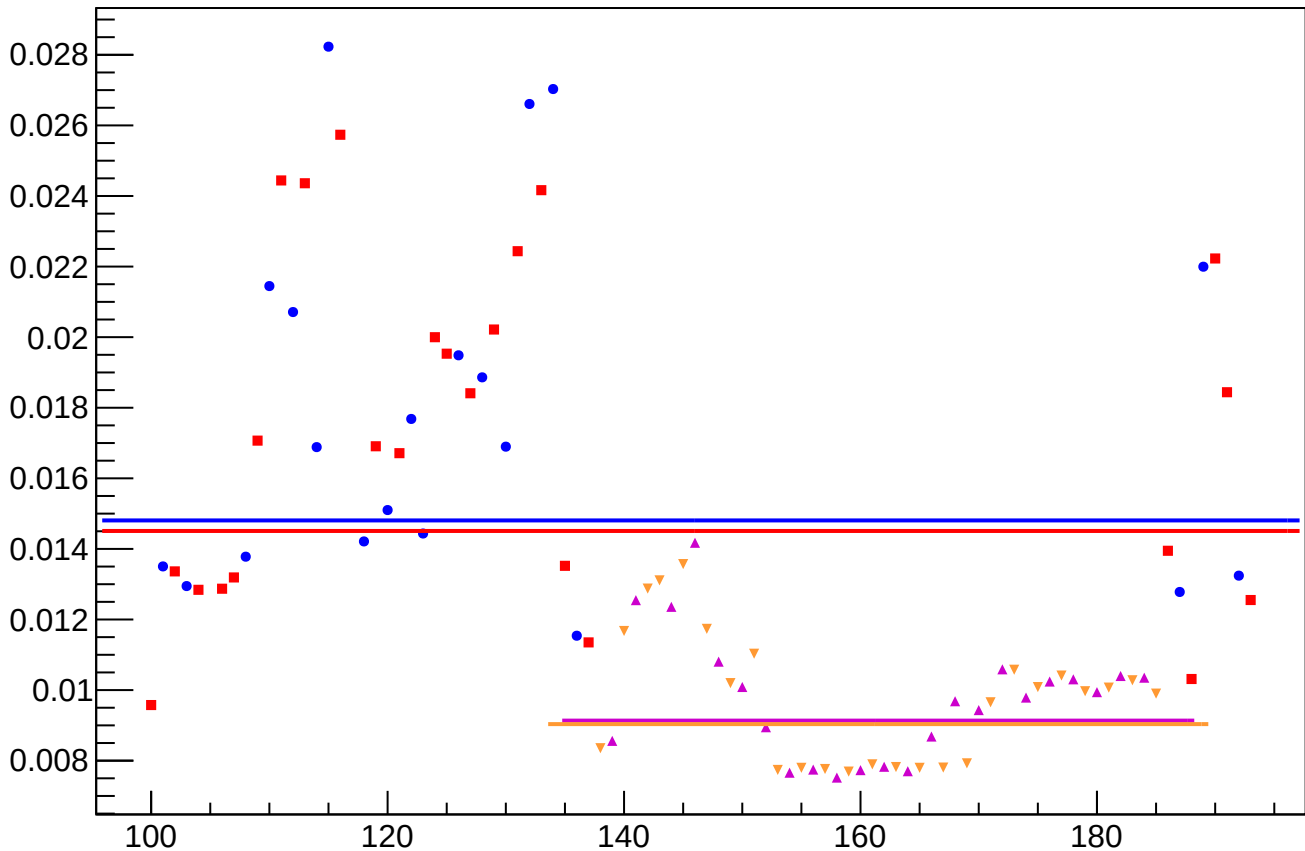
Right: 1.505 $\pm$ 0.000 χ^2 /NDF: 16750384362.5/43

In: 1.616 $\pm$ 0.000 χ^2 /NDF: 27070685175.2/42

Out: 1.612 $\pm$ 0.000 χ^2 /NDF: 37897690976.5/48

All: 1.614 $\pm$ 0.000 χ^2 /NDF: 64970345684.7/99

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 765073.1/19

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1216817.5/23

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

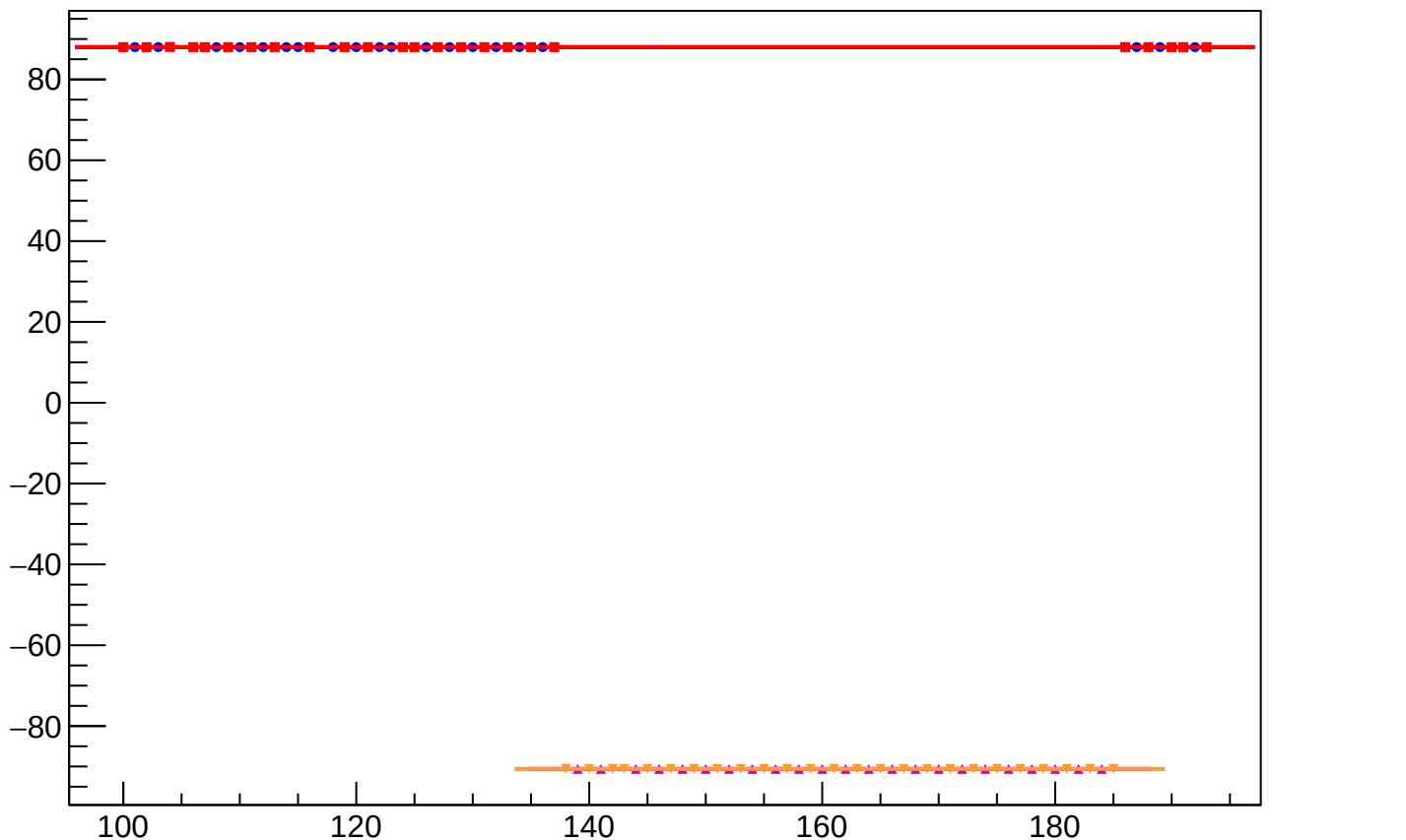
Right: 0.015+/-0.000 χ^2/NDF : 1985028.8/43

In: 0.010+/-0.000 χ^2/NDF :3430025.0/42

Out: 0.010+/-0.000 χ^2/NDF :4200254.1/48

All: 0.010+/-0.000 χ^2/NDF : 7631423.3/91

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 2372893.6/19

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.003+/-0.000 χ^2/NDF : 79137080606842312688540844032.0/23

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

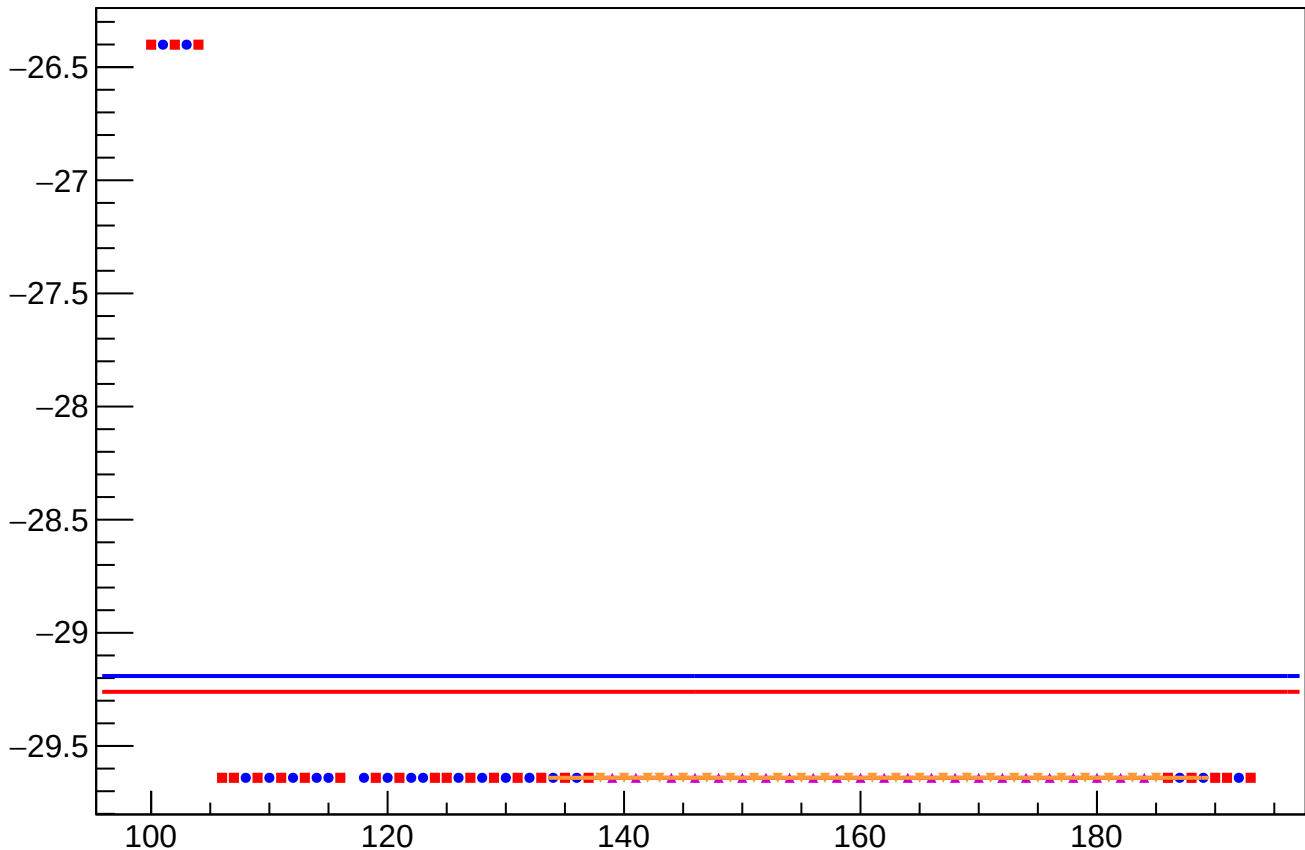
Right: 88.002+/-0.000 χ^2/NDF : 8112585060231952

In: -33.226+/-0.000 χ^2/NDF : 18403411086923635

Out: -29.564+/-0.000 χ^2/NDF : 2076661921154474

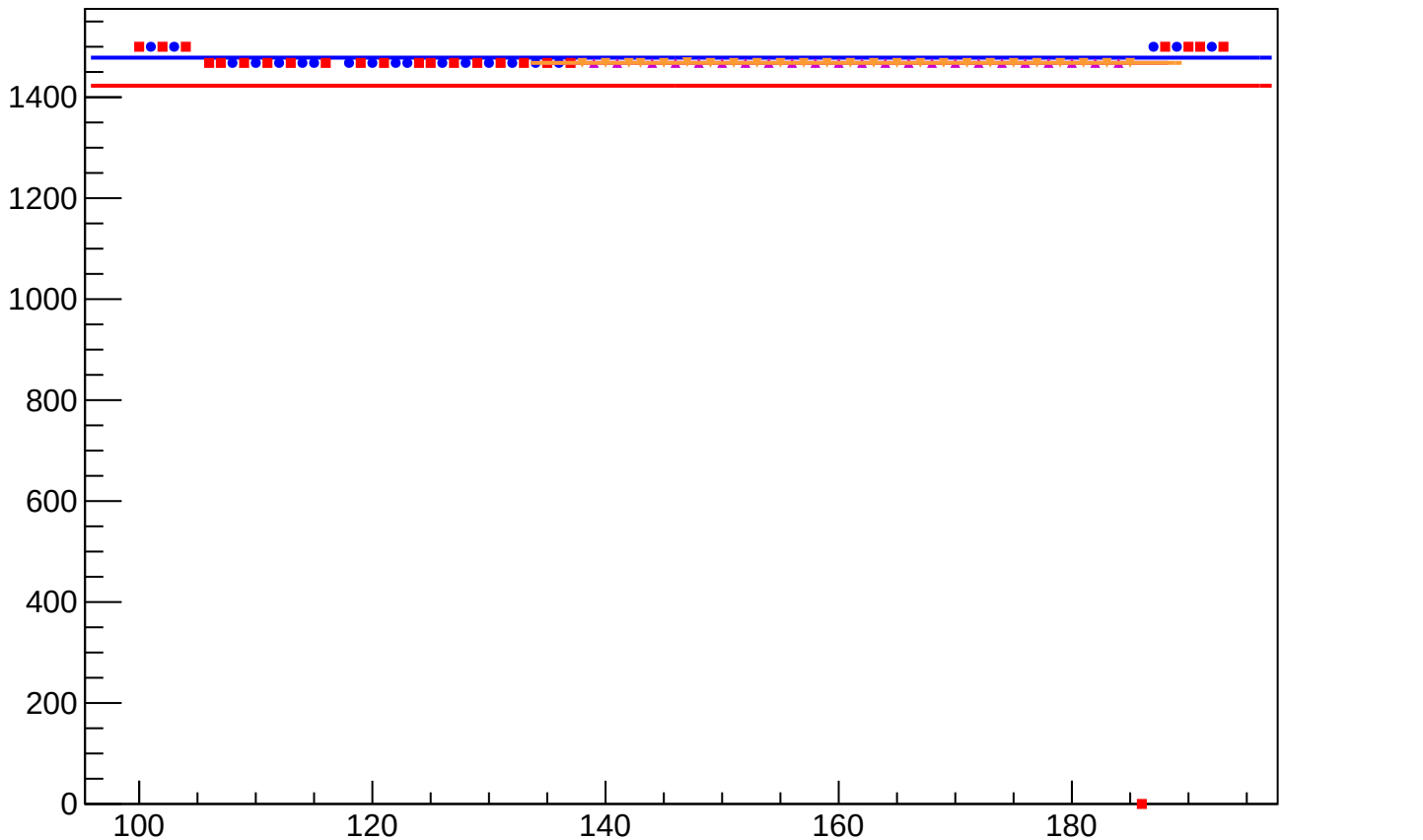
All: -31.313+/-0.000 χ^2/NDF : 391885698813

epics_HWienAngles_mean vs Slug, Sign Corrected



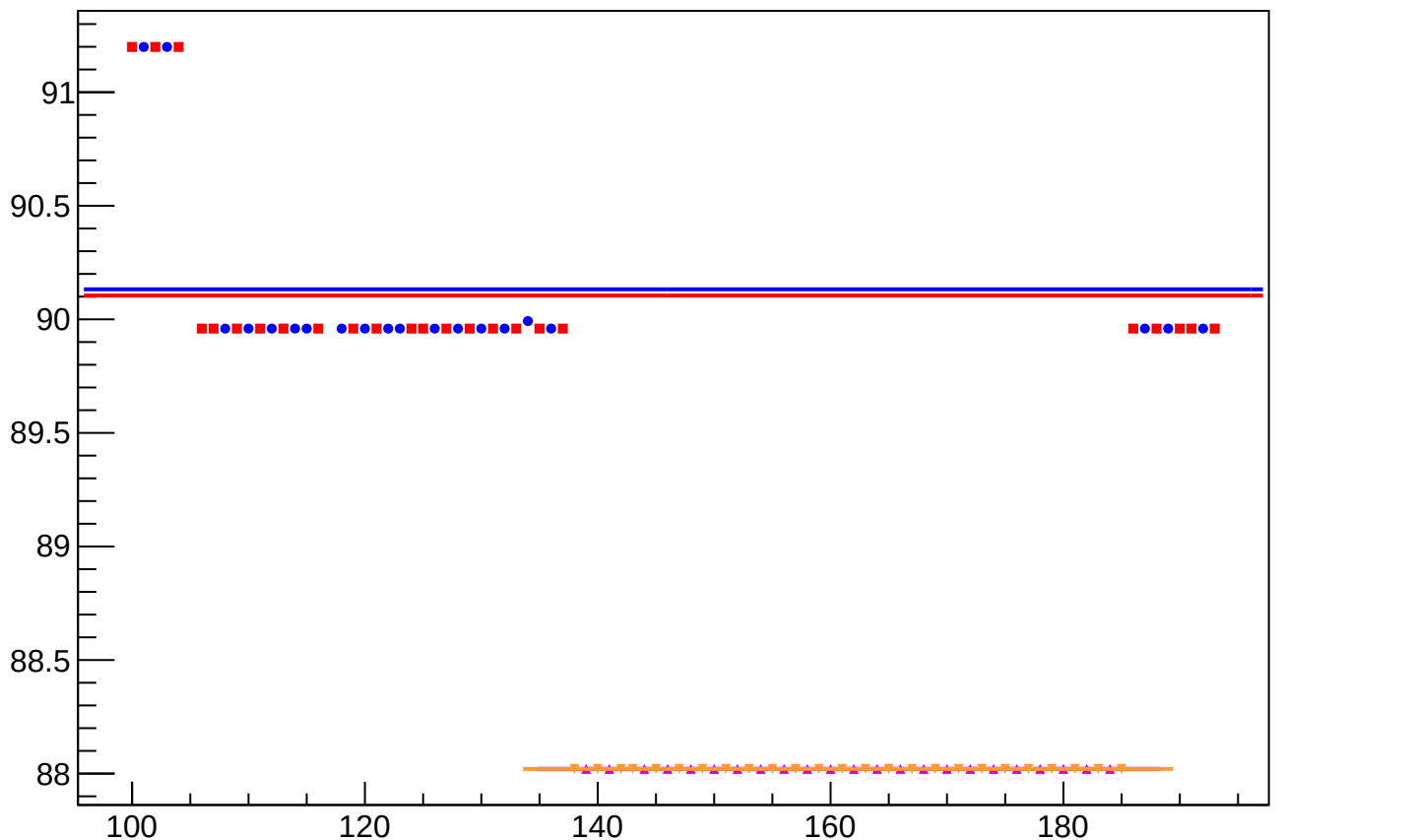
Right In: -29.191+/-0.000 χ^2/NDF : 1066753761882362033178054492160000.0/19
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.261+/-0.000 χ^2/NDF : 107489479959553195594231423434752.0/23
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.496+/-0.000 χ^2/NDF : 11834754612244765
 Out: -29.511+/-0.000 χ^2/NDF : 1168911750103637
 All: -29.504+/-0.000 χ^2/NDF : 235268269862

epics_psub_pl_pos_mean vs Slug, Sign Corrected



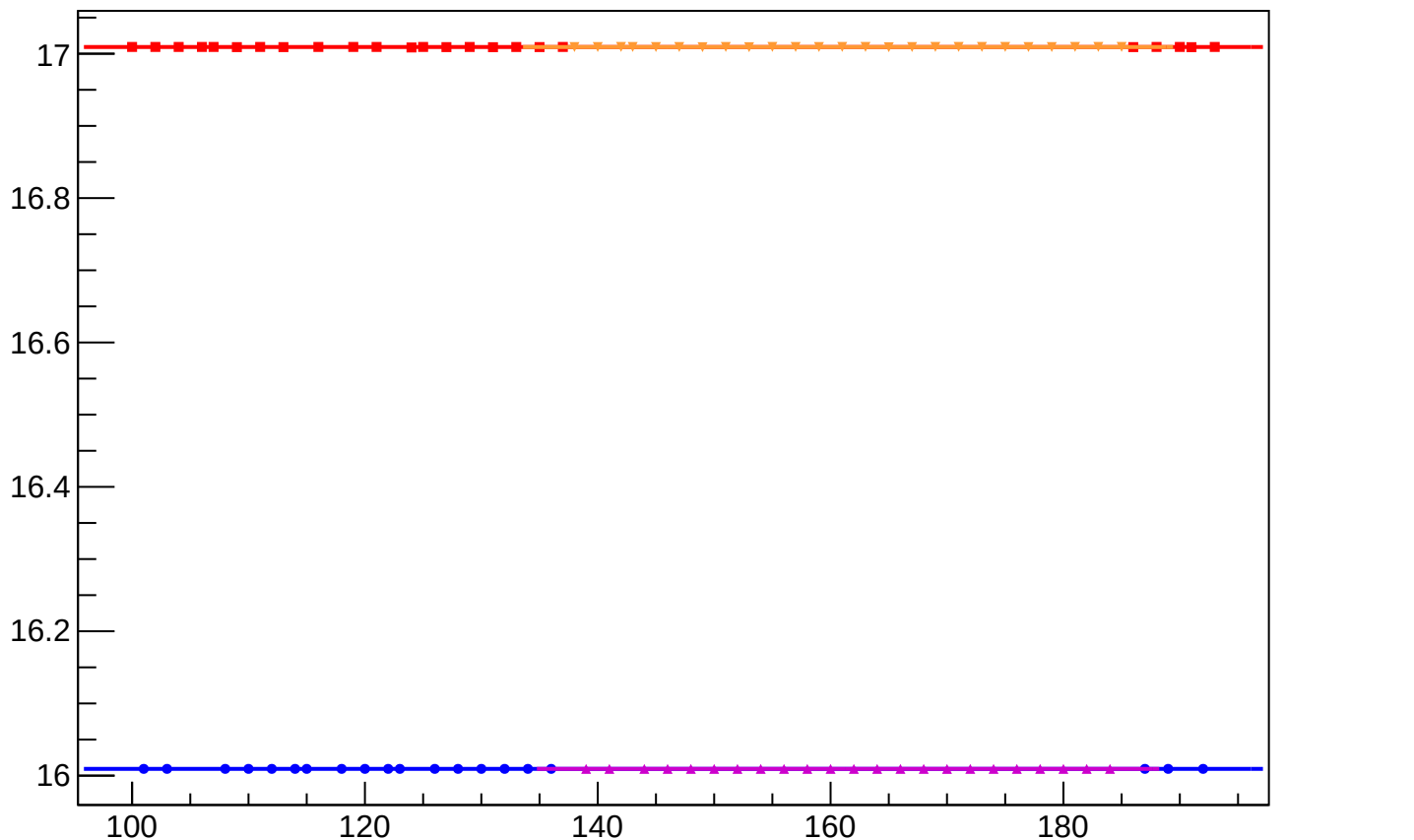
Right In: 1478.415+/-0.000 χ^2/NDF : 191468028823888560735456011933974528.0/19
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1422.811+/-0.000 χ^2/NDF : 80225628204801610326911845057867808768.0/23
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1461.545+/-0.000 χ^2/NDF : 82298182032

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.132+/-0.000 χ^2/NDF : 156032531019081029898158829731840.0/19
 Left Out: 88.021+/-0.000 χ^2/NDF : 5679798.5/24
 Right Out: 90.105+/-0.000 χ^2/NDF : 157441533670408041809459887996928.0/23
 Left In: 88.021+/-0.000 χ^2/NDF : 6257169.0/22
 Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47
 Right: 90.117+/-0.000 χ^2/NDF : 3138202130789860
 In: 88.699+/-0.000 χ^2/NDF : 27284339881543698
 Out: 88.733+/-0.000 χ^2/NDF : 29849386663068520
 All: 88.717+/-0.000 χ^2/NDF : 5714959891756

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 114063.0/19

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 15759346531047270405636096.0/23

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

Left: 16.524 $\pm$ 0.000 χ^2 /NDF: 85855870772921272

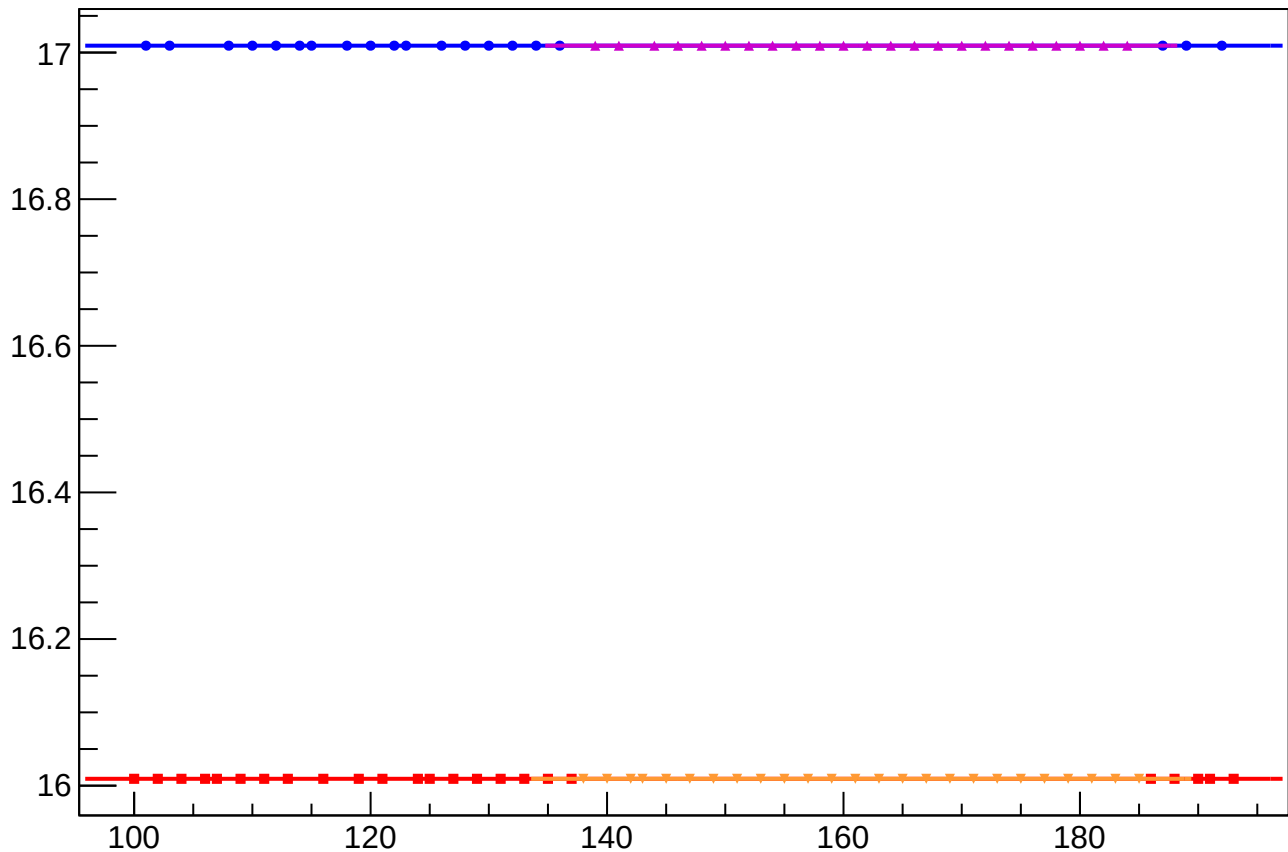
Right: 16.539 $\pm$ 0.000 χ^2 /NDF: 4333754783975573

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 129847436746439134

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 42433577954958755

All: 16.529 $\pm$ 0.000 χ^2 /NDF: 1292196385751

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 198868.7/19

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 187092.6/23

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114986101427233622065152.0/22

Left: 16.491 $\pm$ 0.000 χ^2 /NDF: 90683349233974458

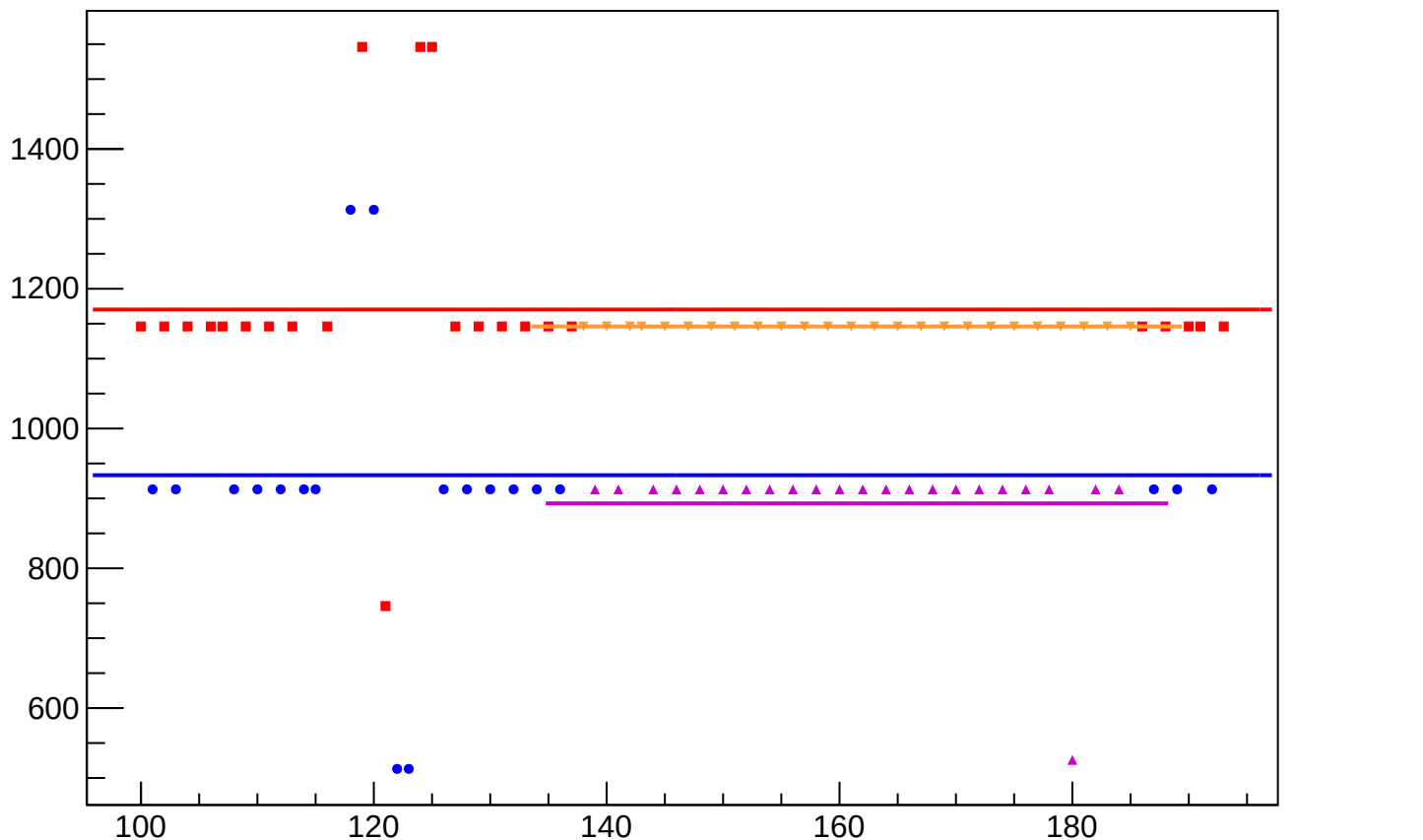
Right: 16.464 $\pm$ 0.000 χ^2 /NDF: 4462644444444265

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 116761938446911377

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 502031.1/48

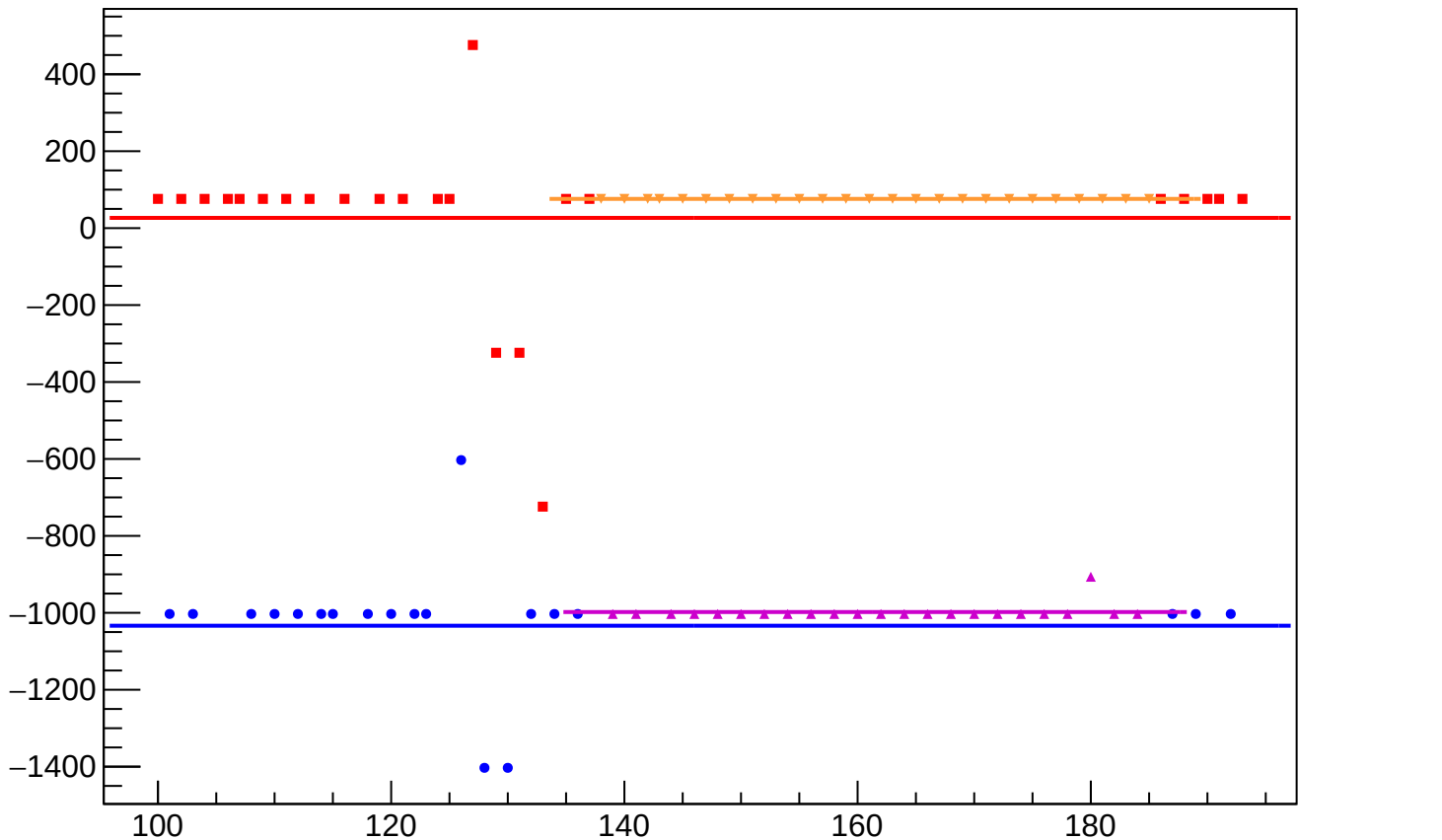
All: 16.482 $\pm$ 0.000 χ^2 /NDF: 1354018613198

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1023.207 +/- 0.000 χ^2/NDF : 724152114185977
 Right: 1060.712 +/- 0.000 χ^2/NDF : 68117935649310
 In: 905.890 +/- 0.000 χ^2/NDF : 35083227688817973
 Out: 1154.304 +/- 0.000 χ^2/NDF : 218816384544714
 All: 1035.657 +/- 0.000 χ^2/NDF : 14226126909

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1033.578 $\pm$ 0.000 χ^2/NDF : 22404361345744756860287620110348189696.0/19
 Left Out: 76.011 $\pm$ 0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: 26.667 $\pm$ 0.000 χ^2/NDF : 4463177559746839861631863244386729984.0/23
 Left In: -997.979 $\pm$ 0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -451.216 $\pm$ 0.000 χ^2/NDF : 16484383855