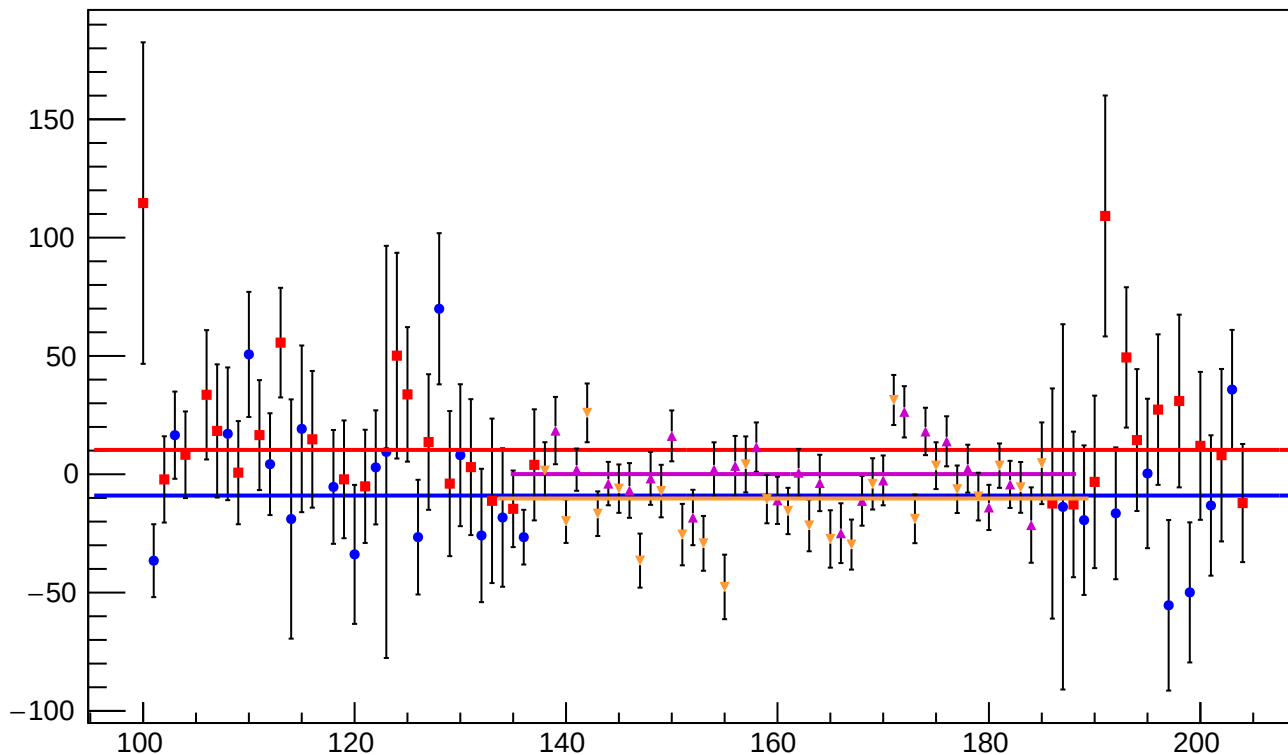


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.991 ± 5.016

$\chi^2/\text{NDF}: 29.9/24$

Left Out: -10.238 ± 2.170

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

Right Out: 10.295 ± 4.944

$\chi^2/\text{NDF}: 20.9/29$

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: 0.790 ± 3.521

$\chi^2/\text{NDF}: 58.3/54$

In: -1.440 ± 2.053

$\chi^2/\text{NDF}: 62.5/47$

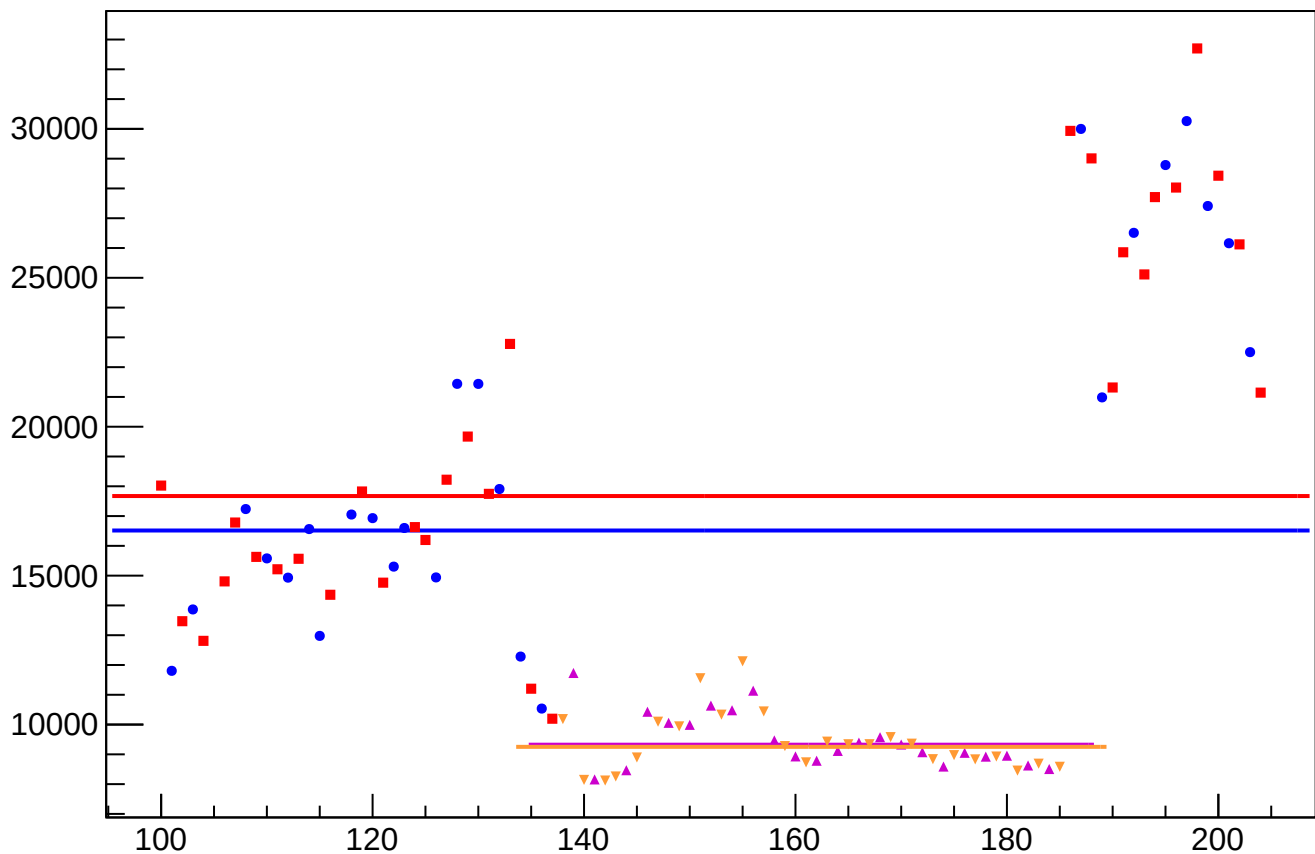
Out: -6.921 ± 1.987

$\chi^2/\text{NDF}: 93.5/54$

All: -4.270 ± 1.428

$\chi^2/\text{NDF}: 159.7/102$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16515.549+/-3.547 χ^2/NDF : 2507983.8/24

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

Right Out: 17672.516+/-3.496 χ^2/NDF : 2719965.7/29

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

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

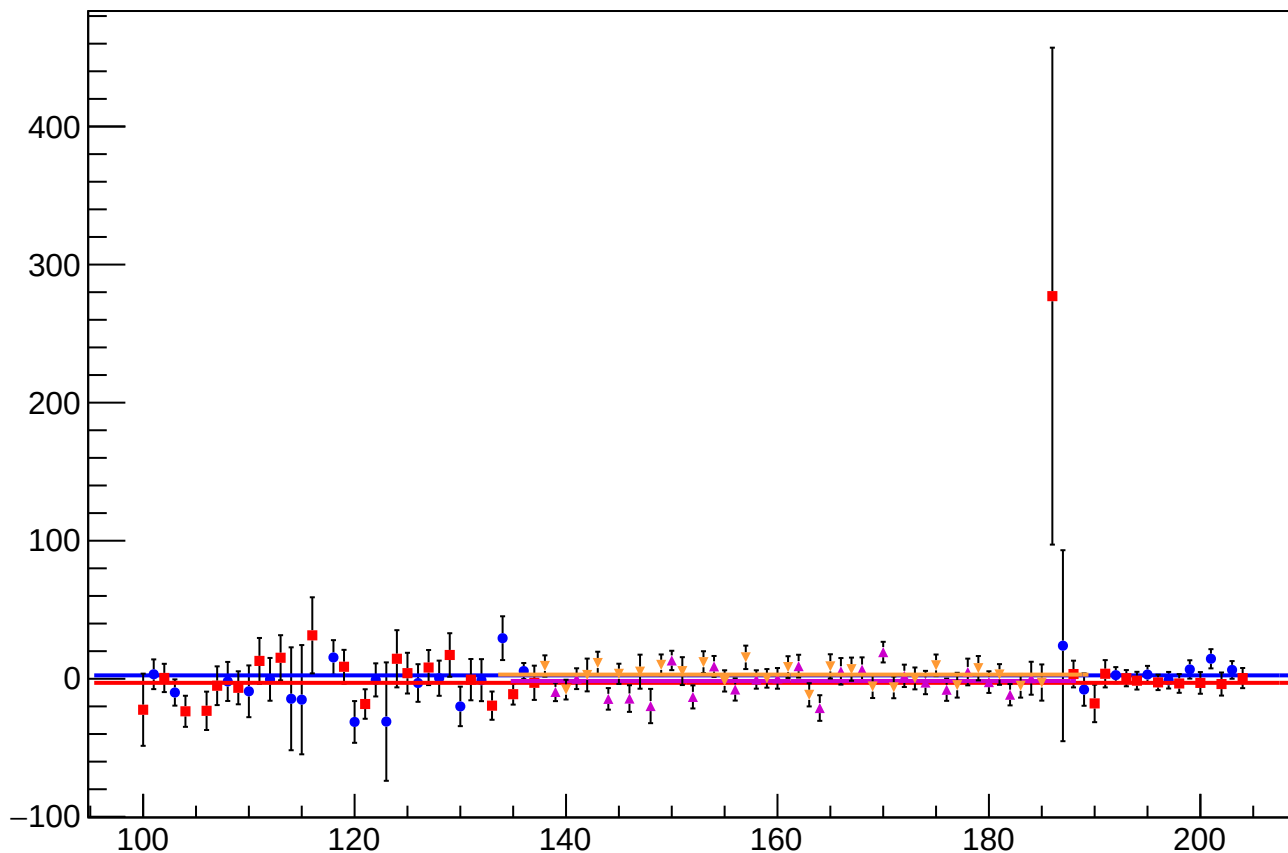
Right: 17102.331+/-2.490 χ^2/NDF : 5281918.1/54

In: 10529.165+/-1.452 χ^2/NDF : 6206113.2/47

Out: 10612.068+/-1.405 χ^2/NDF : 7916201.0/54

All: 10571.972+/-1.010 χ^2/NDF : 14123997.7

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.473 ± 1.948 $\chi^2/\text{NDF}: 20.3/24$

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

Right Out: -2.942 ± 1.831 $\chi^2/\text{NDF}: 25.2/29$

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

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

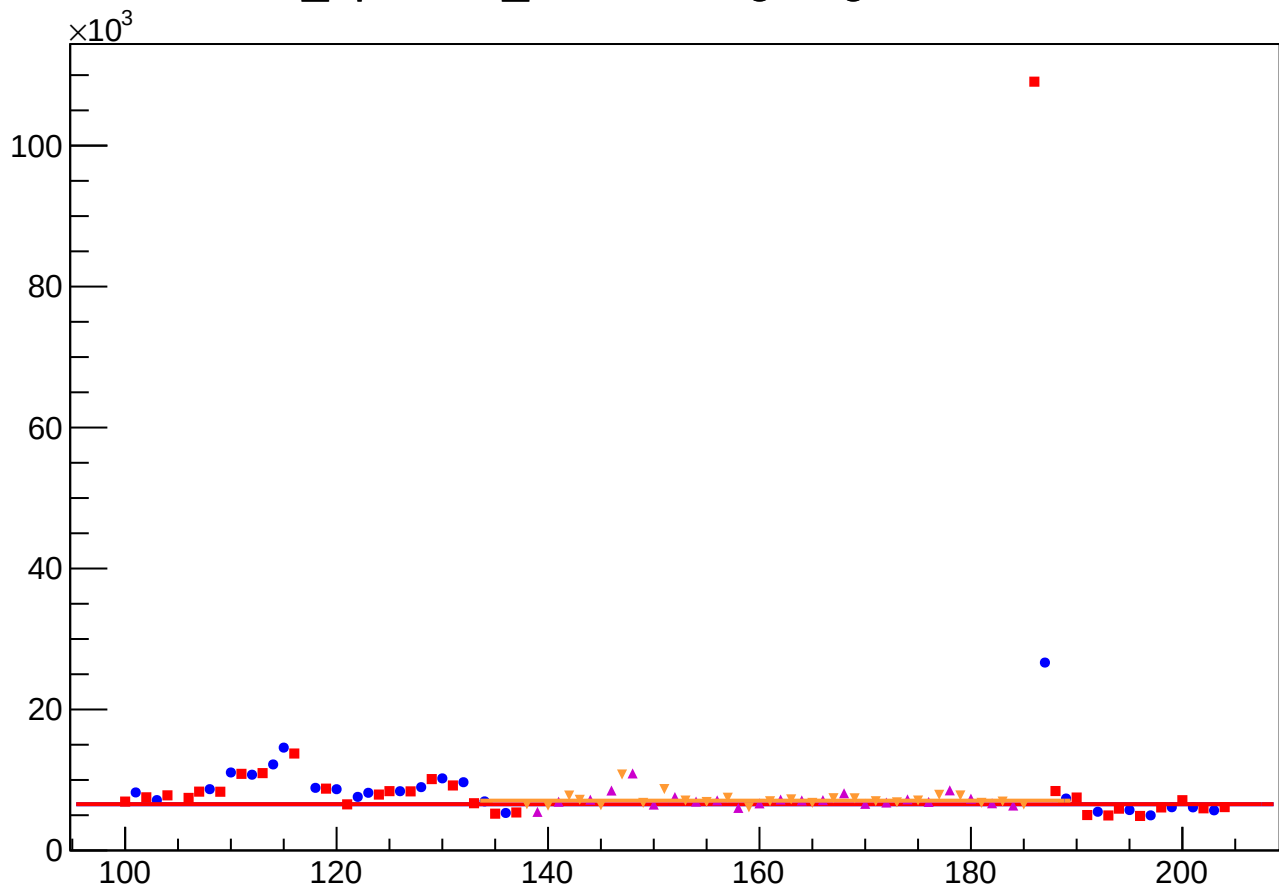
Right: -0.402 ± 1.334 $\chi^2/\text{NDF}: 49.6/54$

In: 0.170 ± 1.282 $\chi^2/\text{NDF}: 58.2/47$

Out: 0.334 ± 1.230 $\chi^2/\text{NDF}: 49.6/54$

All: 0.255 ± 0.888 $\chi^2/\text{NDF}: 107.9/102$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6552.378 ± 1.378 $\chi^2/\text{NDF}: 1507337.3/24$

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

Right Out: 6568.361 ± 1.295 $\chi^2/\text{NDF}: 2099858.0/29$

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

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

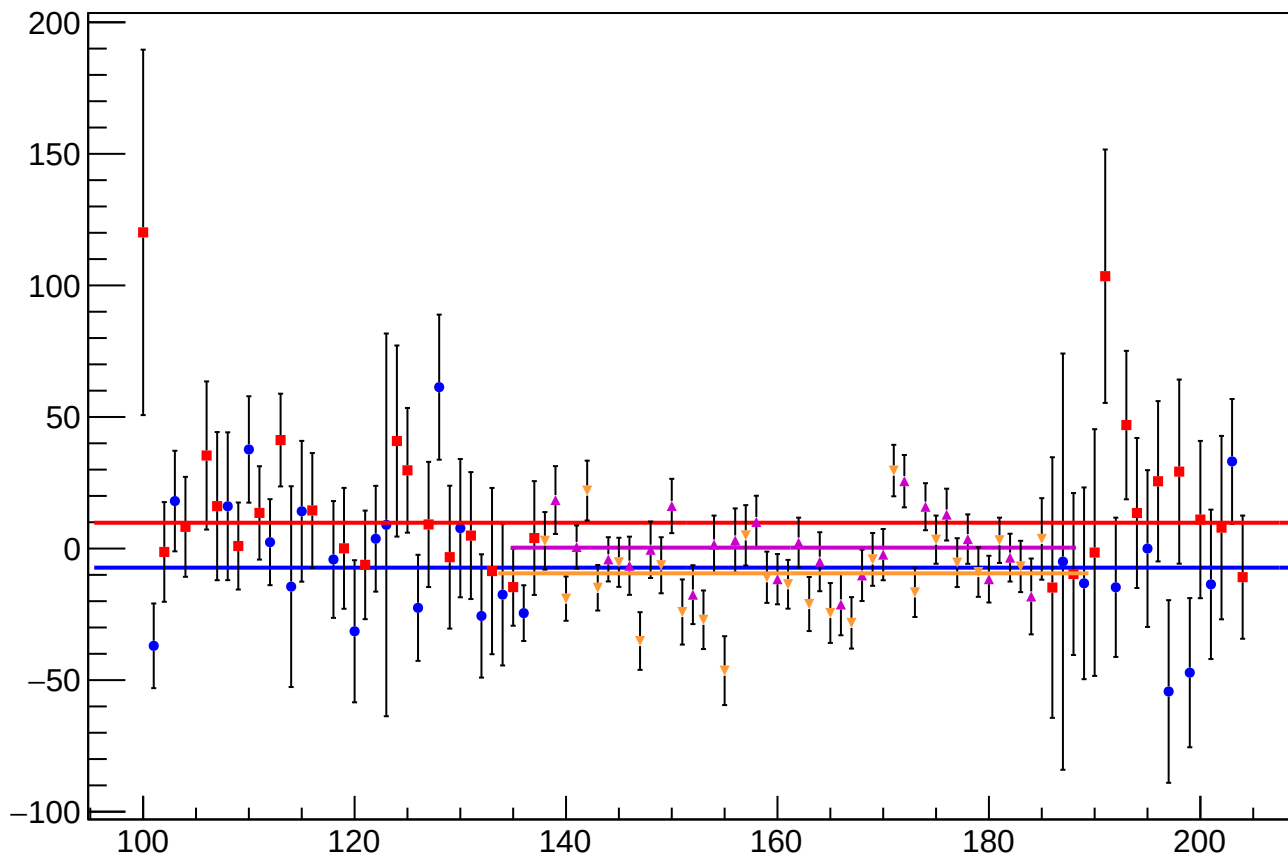
Right: 6560.864 ± 0.944 $\chi^2/\text{NDF}: 3607266.7/54$

In: 6814.444 ± 0.907 $\chi^2/\text{NDF}: 2096469.2/47$

Out: 6840.602 ± 0.870 $\chi^2/\text{NDF}: 2567218.6/54$

All: 6828.063 ± 0.628 $\chi^2/\text{NDF}: 4664121.4/100$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.258 $\pm$ 4.559 χ^2/NDF : 30.4/24

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

Right Out: 9.819 $\pm$ 4.456 χ^2/NDF : 20.6/29

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

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

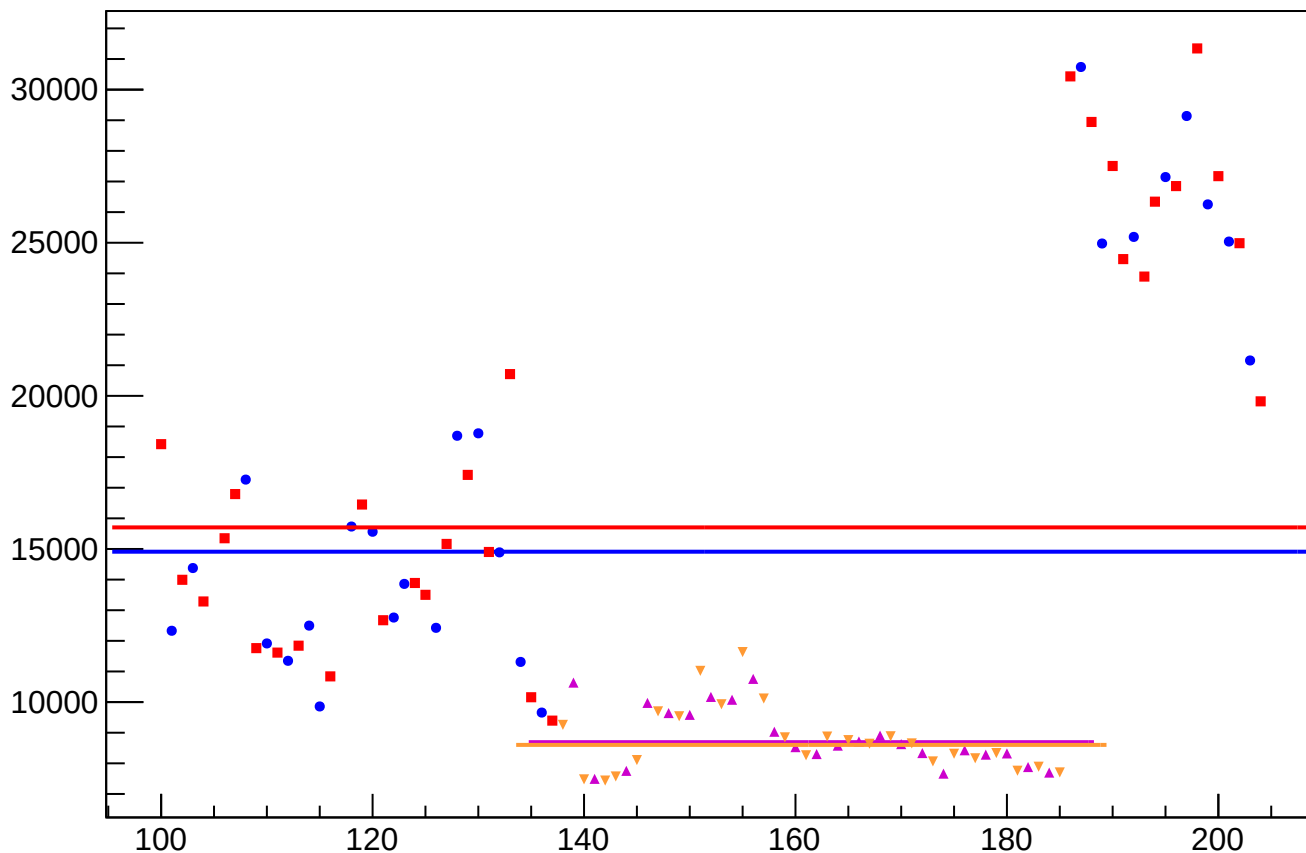
Right: 1.476 $\pm$ 3.187 χ^2/NDF : 58.2/54

In: -0.987 $\pm$ 1.908 χ^2/NDF :62.6/47

Out: -6.130 $\pm$ 1.841 χ^2/NDF :94.8/54

All: -3.651 $\pm$ 1.325 χ^2/NDF : 161.2/102

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14910.941 $\pm$ 3.224 χ^2/NDF : 2872669.0/24

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

Right Out: 15704.610 $\pm$ 3.151 χ^2/NDF : 3408778.5/29

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

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

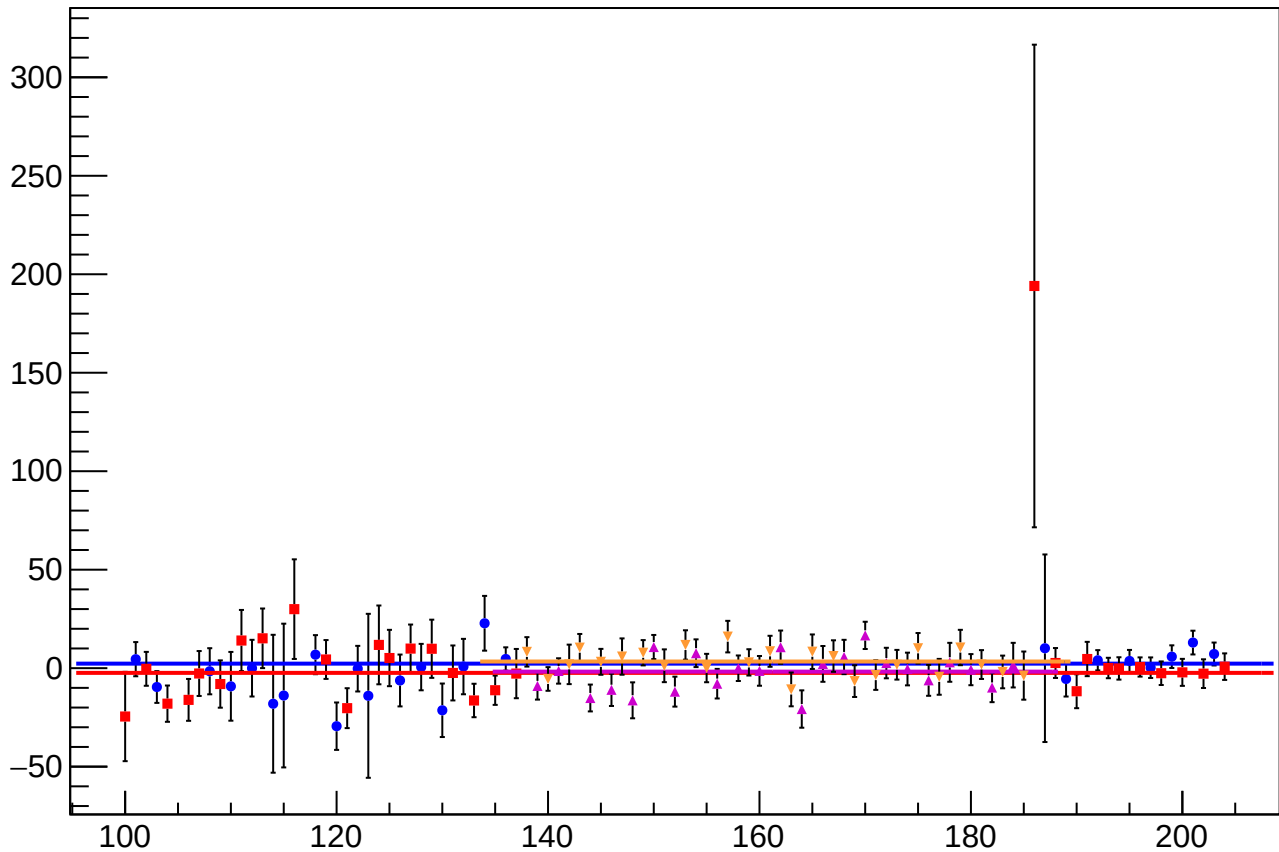
Right: 15316.859 $\pm$ 2.253 χ^2/NDF : 6312444.1/54

In: 9780.207 $\pm$ 1.349 χ^2/NDF : 6308273.9/47

Out: 9813.905 $\pm$ 1.301 χ^2/NDF : 8061581.4/54

All: 9797.660 $\pm$ 0.937 χ^2/NDF : 14370178.5/101

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.301 ± 1.728 χ^2/NDF : 21.9/24

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

Right Out: -2.390 ± 1.607 χ^2/NDF : 25.9/29

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

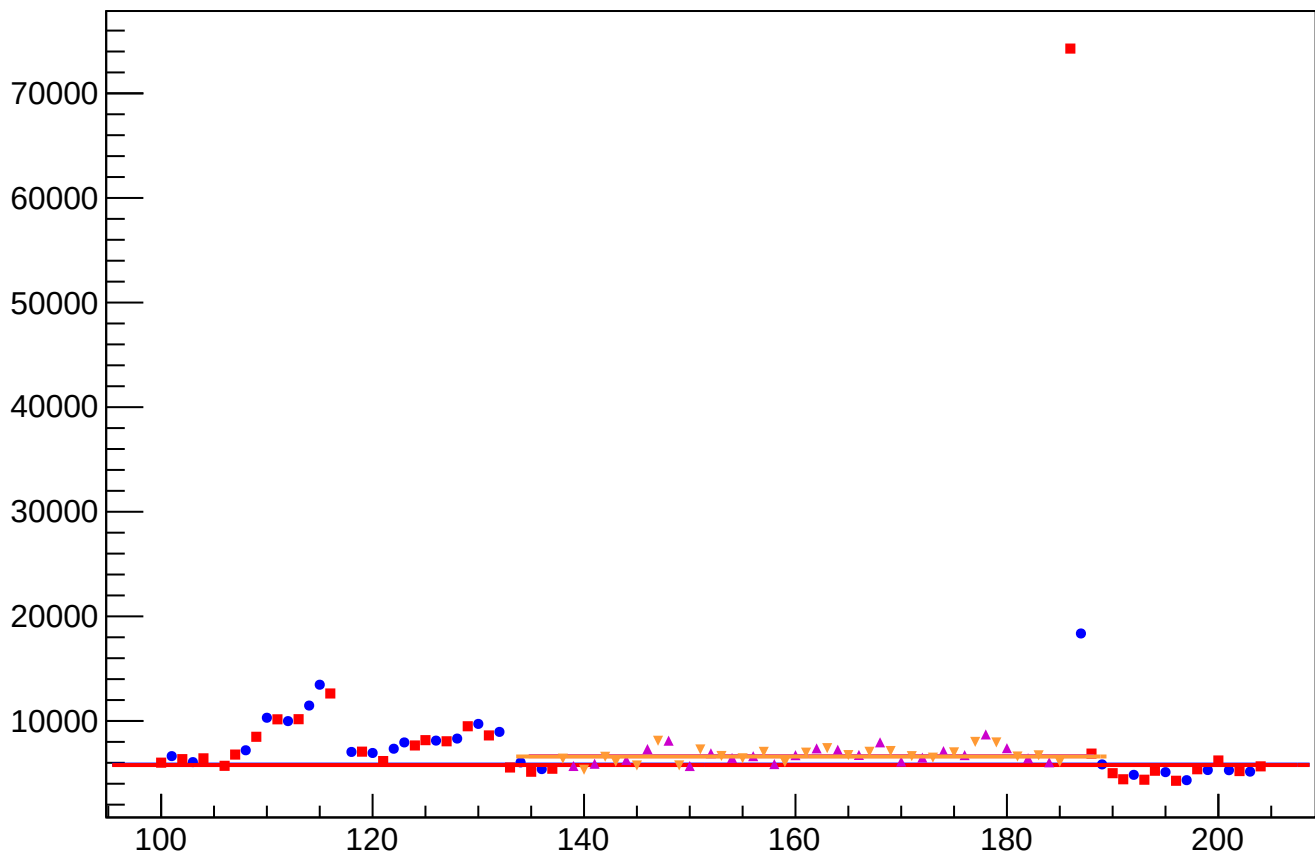
Right: -0.215 ± 1.177 χ^2/NDF : 51.8/54

In: 0.125 ± 1.177 χ^2/NDF : 58.4/47

Out: 0.593 ± 1.116 χ^2/NDF : 49.7/54

All: 0.371 ± 0.810 χ^2/NDF : 108.2/102

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5828.004+/-1.222

χ^2/NDF : 1460797.6/24

Left Out: 6603.953+/-1.097

χ^2/NDF : 395247.5/24

Right Out: 5785.818+/-1.136

χ^2/NDF : 2129236.5/29

Left In: 6637.155+/-1.136

χ^2/NDF : 415547.5/22

Left: 6619.974+/-0.789 χ^2/NDF : 811236.9/47

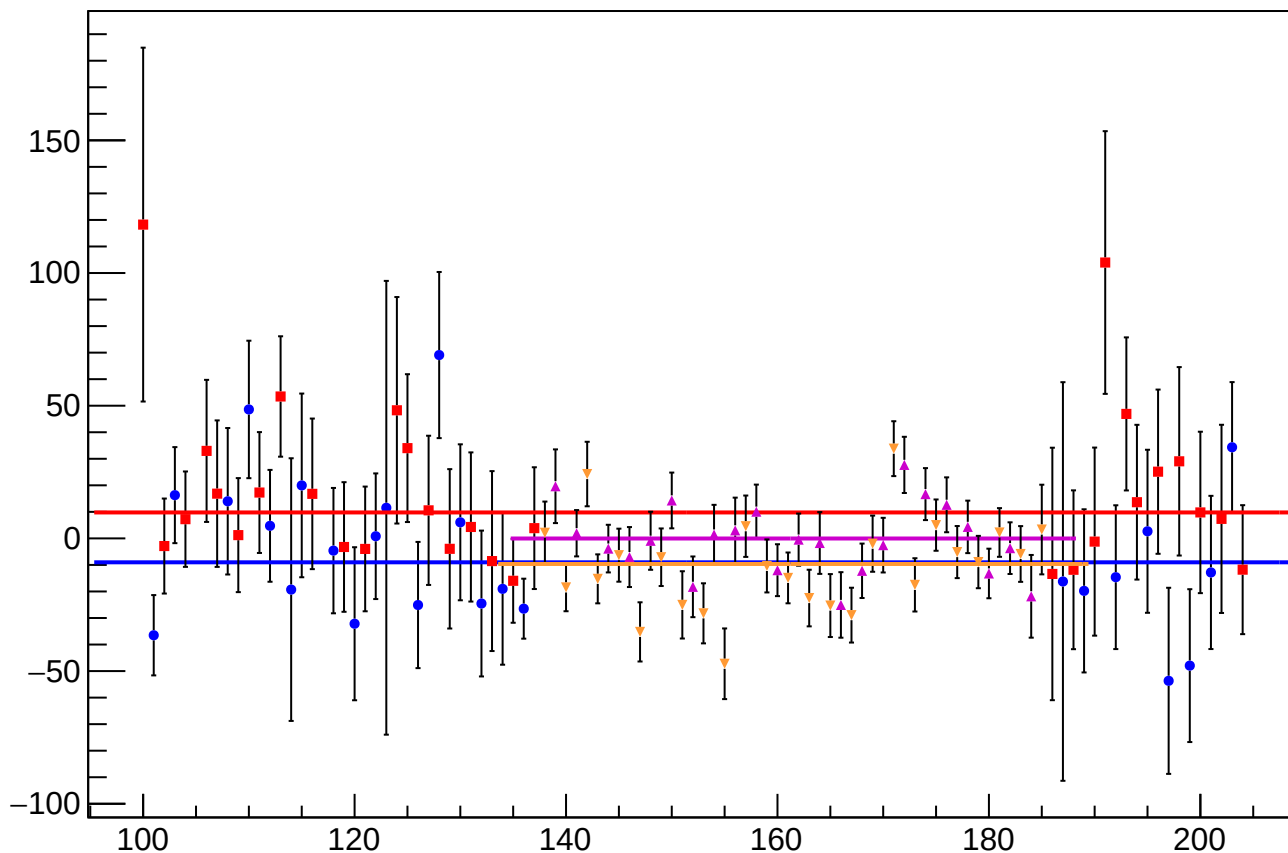
Right: 5805.378+/-0.832 χ^2/NDF : 3590673.3/54

In: 6261.964+/-0.832 χ^2/NDF : 2111460.9/47

Out: 6209.144+/-0.789 χ^2/NDF : 2792752.5/54

All: 6234.159+/-0.573 χ^2/NDF : 4906334.2/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.013 ± 4.909 $\chi^2/\text{NDF}: 29.7/24$

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

Right Out: 9.778 ± 4.838 $\chi^2/\text{NDF}: 21.0/29$

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

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

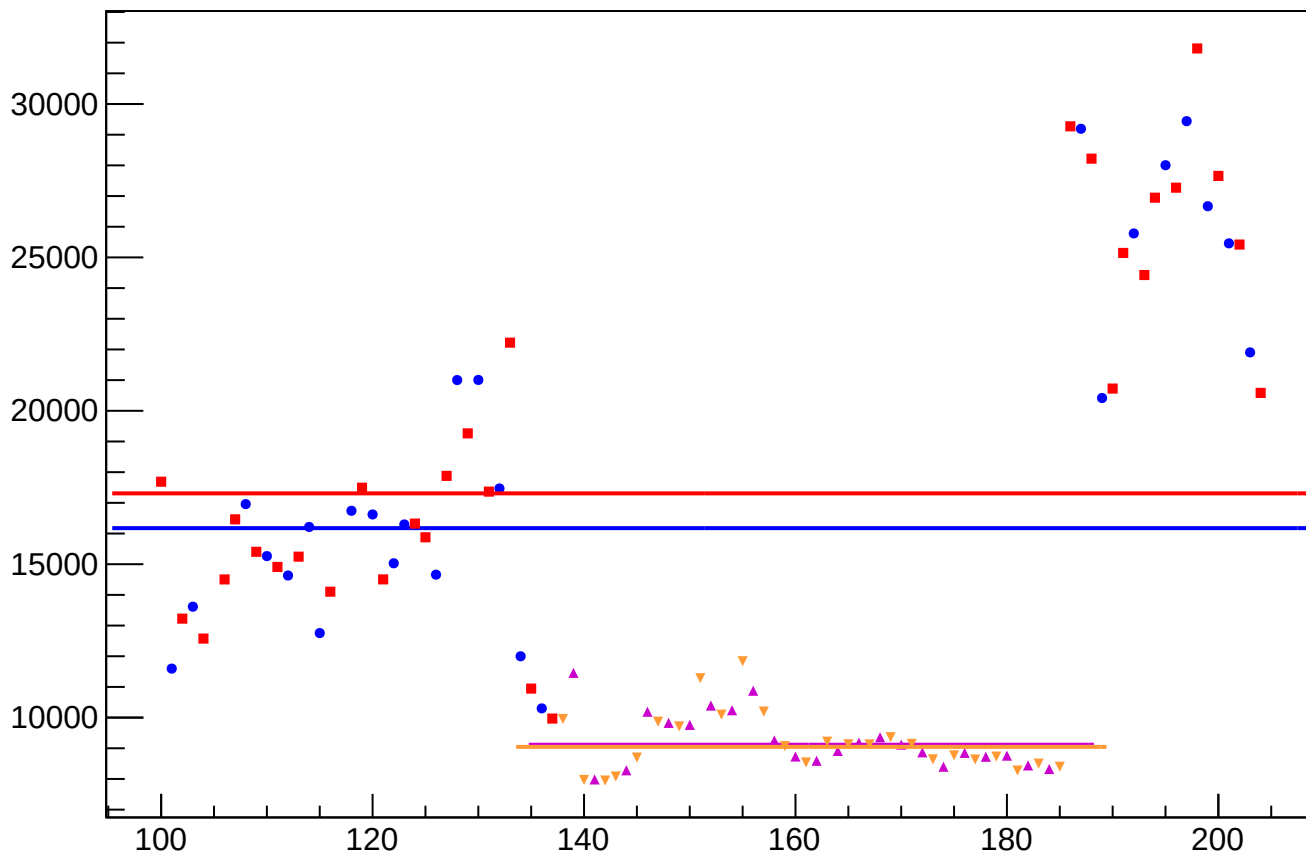
Right: 0.518 ± 3.446 $\chi^2/\text{NDF}: 58.1/54$

In: -1.543 ± 2.008 $\chi^2/\text{NDF}: 63.2/47$

Out: -6.508 ± 1.943 $\chi^2/\text{NDF}: 94.4/54$

All: -4.107 ± 1.396 $\chi^2/\text{NDF}: 160.7/102$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16175.560 $\pm$ 3.471 χ^2 /NDF: 2475106.3/24

Left Out: 9045.871 $\pm$ 1.500 χ^2 /NDF: 328508.5/24

Right Out: 17308.670 $\pm$ 3.421 χ^2 /NDF: 2676485.4/29

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

Left: 9079.576 $\pm$ 1.080 χ^2 /NDF: 602027.6/47

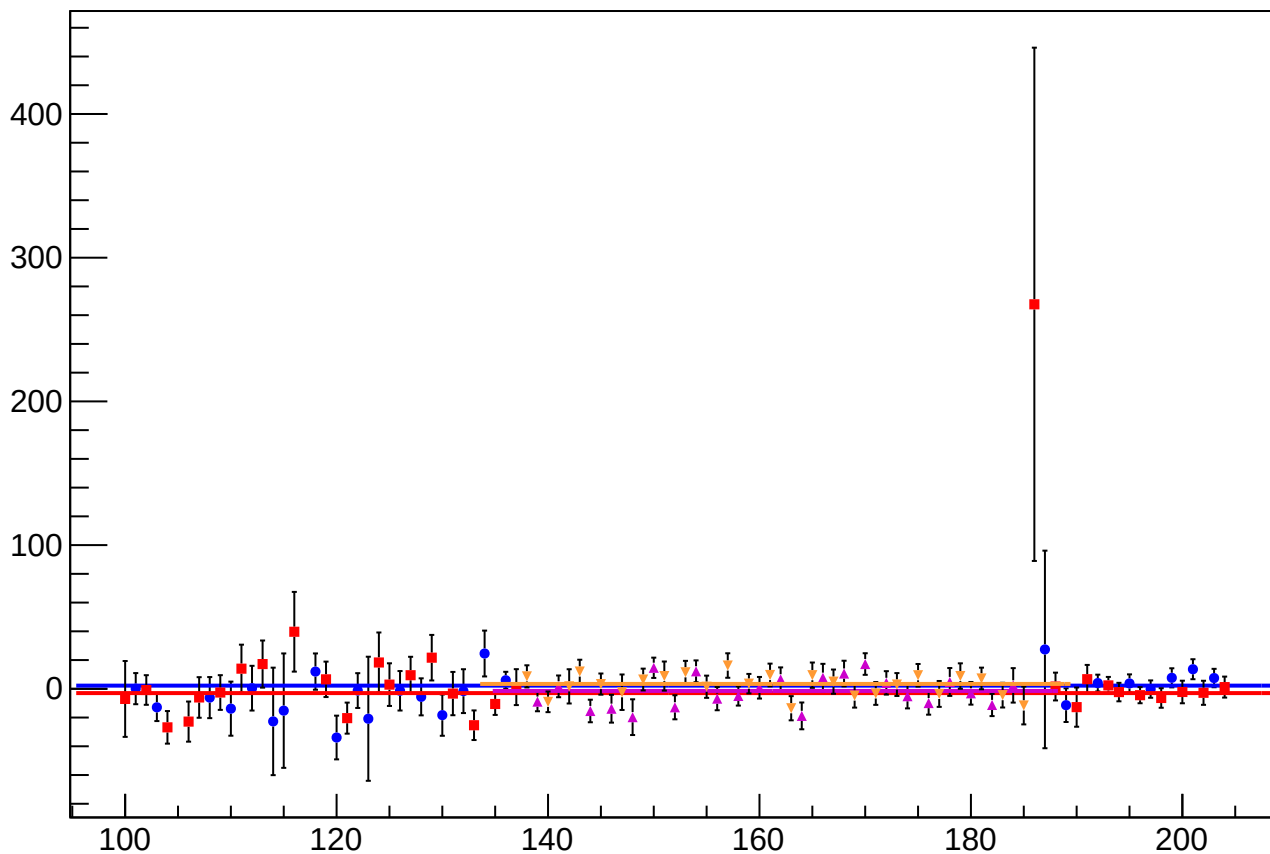
Right: 16750.296 $\pm$ 2.437 χ^2 /NDF: 5205643.9/54

In: 10296.767 $\pm$ 1.420 χ^2 /NDF: 6192258.8/47

Out: 10378.511 $\pm$ 1.374 χ^2 /NDF: 7896992.8/54

All: 10338.975 $\pm$ 0.987 χ^2 /NDF: 14090963.5

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 2.206 ± 1.956 $\chi^2/\text{NDF}: 21.6/24$

Left Out: 3.387 ± 1.668 $\chi^2/\text{NDF}: 19.4/24$

Right Out: -2.983 ± 1.839 $\chi^2/\text{NDF}: 30.5/29$

Left In: -1.479 ± 1.710 $\chi^2/\text{NDF}: 36.7/22$

Left: 1.015 ± 1.194 $\chi^2/\text{NDF}: 60.3/47$

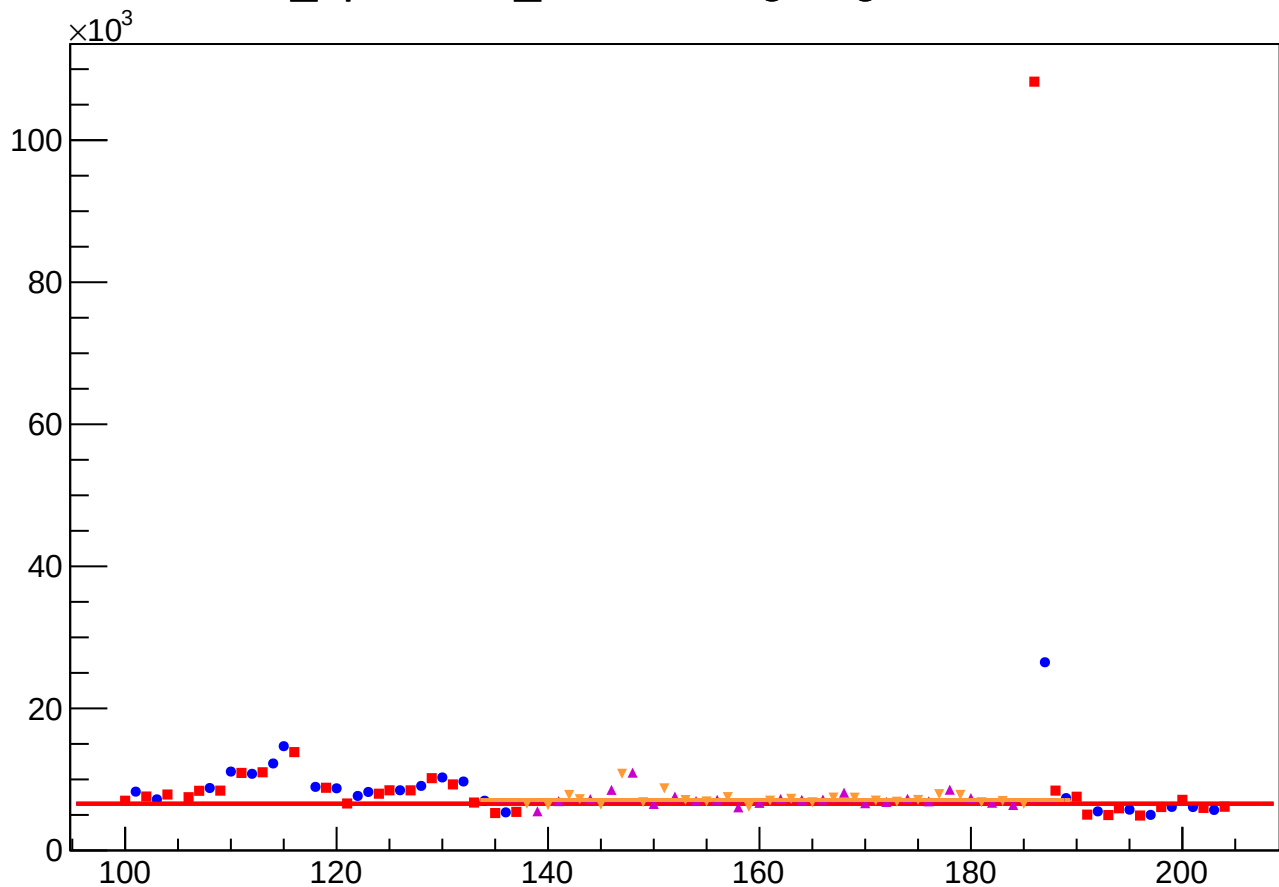
Right: -0.548 ± 1.340 $\chi^2/\text{NDF}: 55.8/54$

In: 0.117 ± 1.288 $\chi^2/\text{NDF}: 60.3/47$

Out: 0.512 ± 1.235 $\chi^2/\text{NDF}: 56.5/54$

All: 0.323 ± 0.891 $\chi^2/\text{NDF}: 116.9/102$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6578.639 $\pm$ 1.383 χ^2/NDF : 1516954.0/24

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

Right Out: 6597.474 $\pm$ 1.300 χ^2/NDF : 2104678.4/29

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

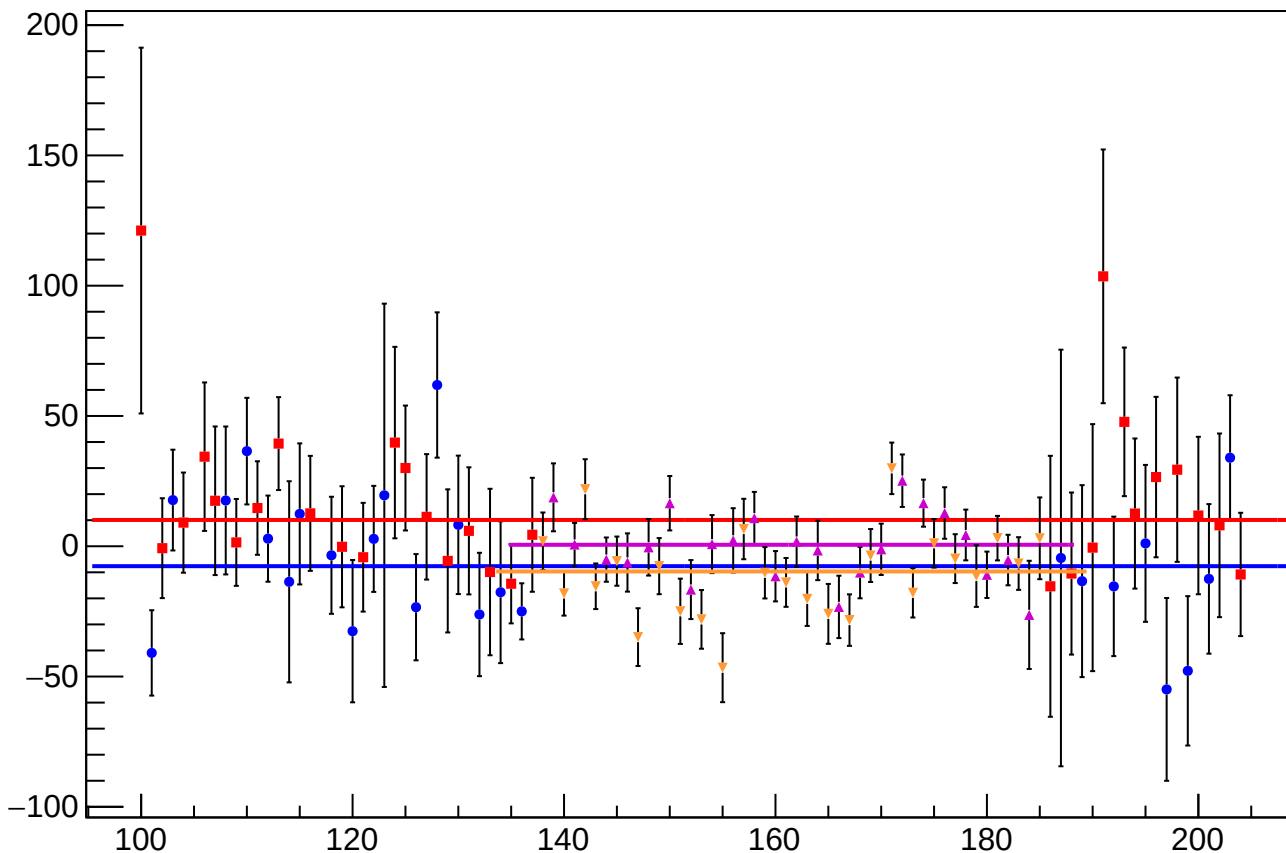
Right: 6588.637 $\pm$ 0.948 χ^2/NDF : 3621730.9/54

In: 6844.259 $\pm$ 0.910 χ^2/NDF : 2099441.2/47

Out: 6871.227 $\pm$ 0.874 χ^2/NDF : 2567369.1/54

All: 6858.299 $\pm$ 0.630 χ^2/NDF : 4667267.2/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.645 ± 4.618 χ^2/NDF : 31.1/24

Left Out: -9.670 ± 2.061 χ^2/NDF : 57.9/24

Right Out: 10.092 ± 4.516 χ^2/NDF : 19.6/29

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

Left: -4.755 ± 1.486 χ^2/NDF : 99.5/47

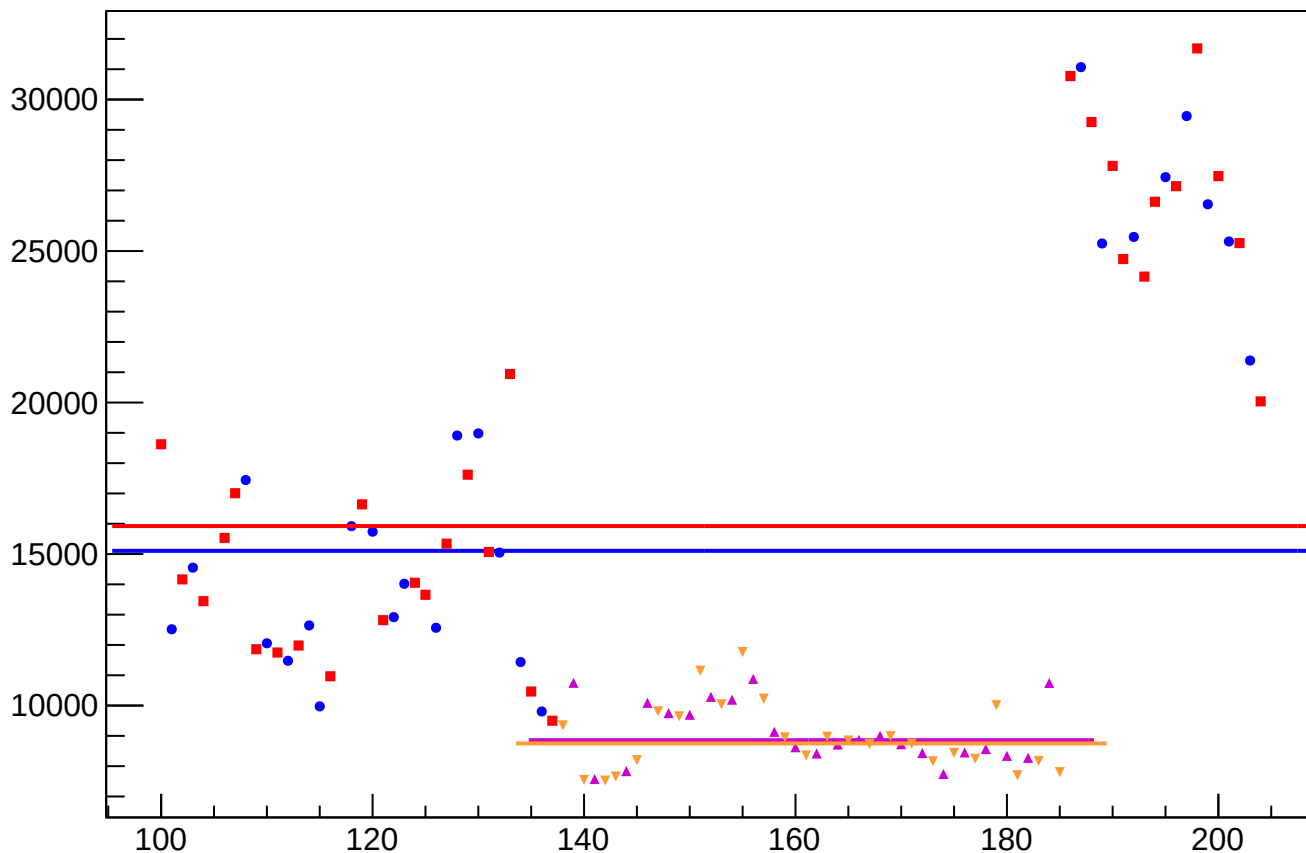
Right: 1.422 ± 3.229 χ^2/NDF : 58.3/54

In: -0.891 ± 1.944 χ^2/NDF : 63.4/47

Out: -6.265 ± 1.875 χ^2/NDF : 93.4/54

All: -3.676 ± 1.350 χ^2/NDF : 160.8/102

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15106.253 ± 3.266 $\chi^2/\text{NDF}: 2854440.0/24$

Left Out: 8750.420 ± 1.457 $\chi^2/\text{NDF}: 463880.1/24$

Right Out: 15923.846 ± 3.194 $\chi^2/\text{NDF}: 3375395.3/29$

Left In: 8857.329 ± 1.516 $\chi^2/\text{NDF}: 361778.8/22$

Left: 8801.764 ± 1.050 $\chi^2/\text{NDF}: 828244.3/47$

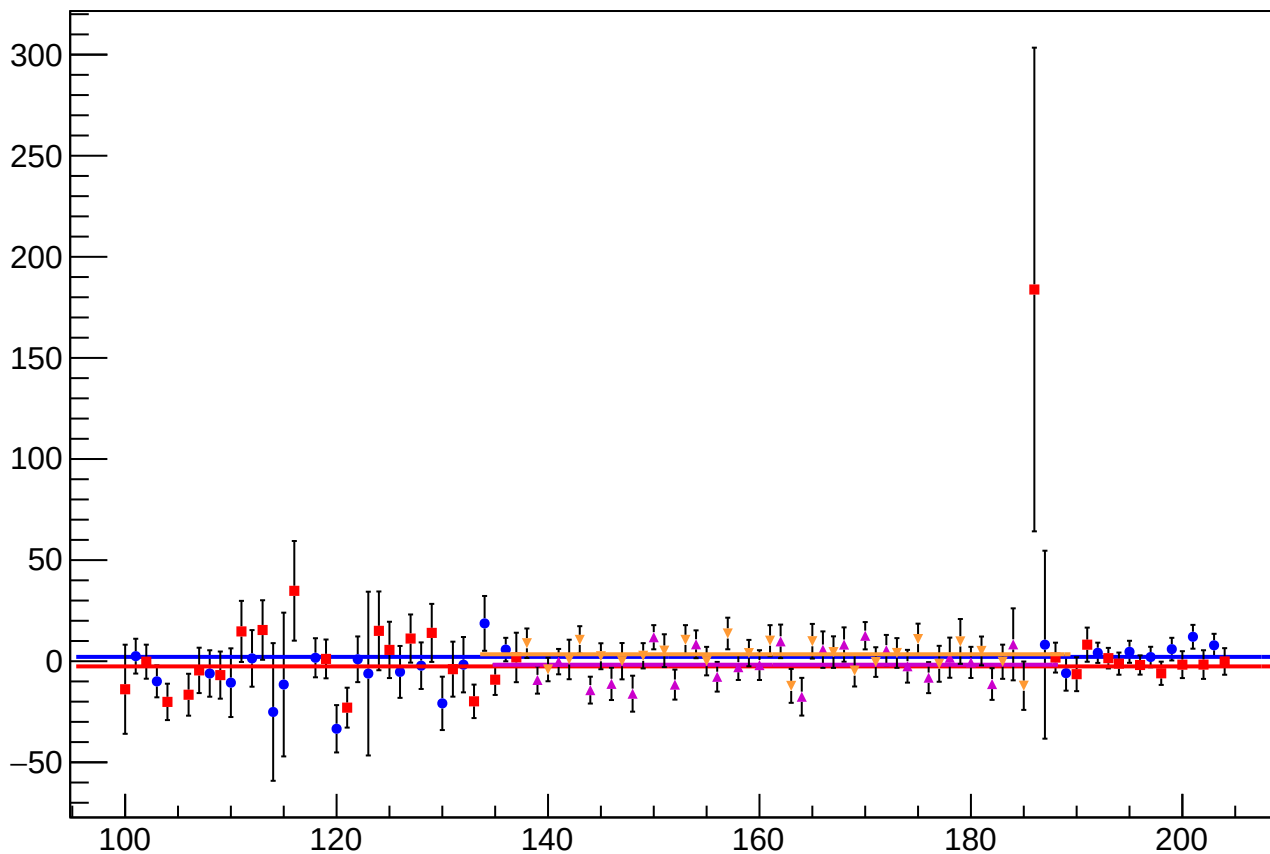
Right: 15524.178 ± 2.283 $\chi^2/\text{NDF}: 6261873.8/54$

In: 9964.964 ± 1.375 $\chi^2/\text{NDF}: 6228643.7/47$

Out: 9986.388 ± 1.326 $\chi^2/\text{NDF}: 8015311.4/54$

All: 9976.067 ± 0.954 $\chi^2/\text{NDF}: 14244081.0/101$

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 2.139 ± 1.686 $\chi^2/\text{NDF}: 24.6/24$

Left Out: 3.433 ± 1.526 $\chi^2/\text{NDF}: 16.2/24$

Right Out: -2.565 ± 1.567 $\chi^2/\text{NDF}: 30.6/29$

Left In: -1.734 ± 1.586 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.949 ± 1.099 $\chi^2/\text{NDF}: 55.3/47$

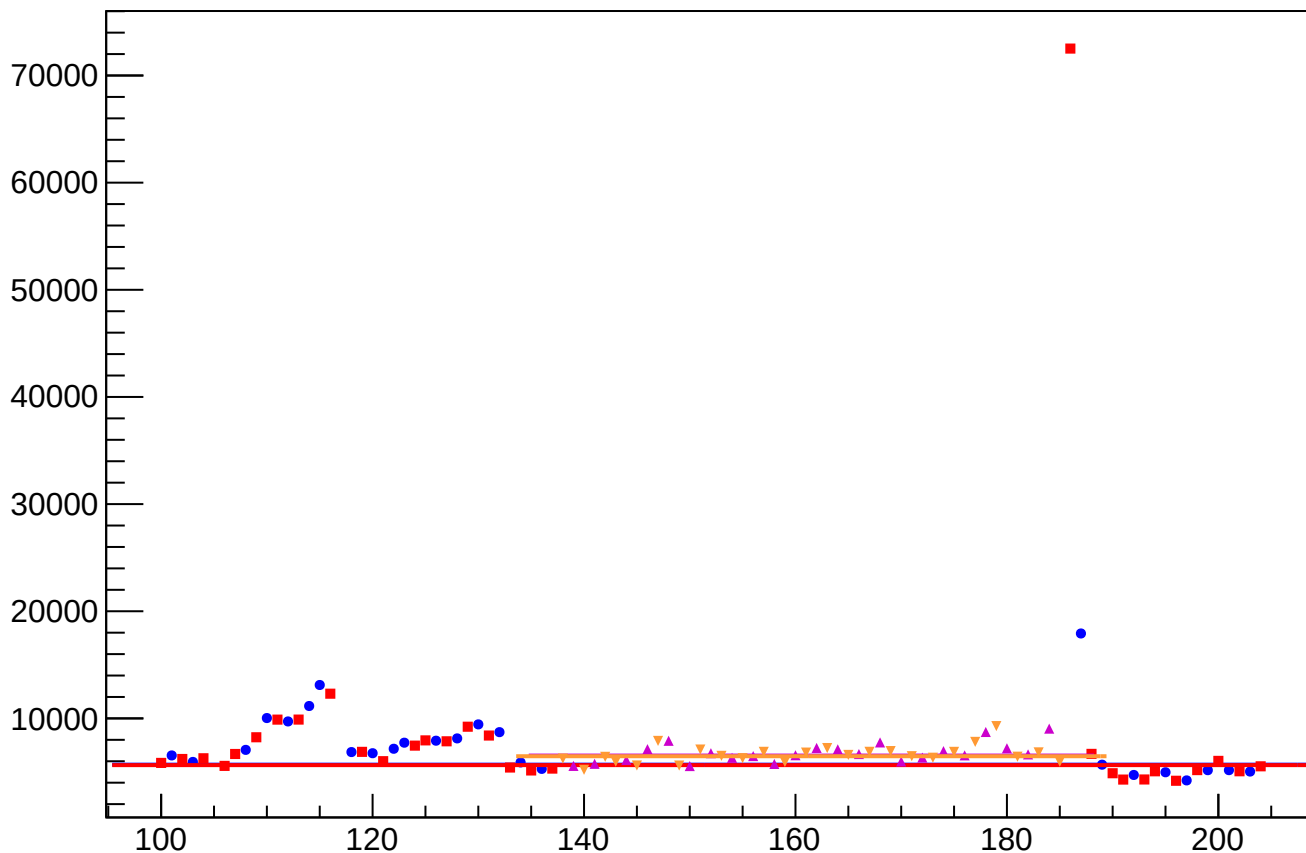
Right: -0.385 ± 1.148 $\chi^2/\text{NDF}: 59.3/54$

In: 0.084 ± 1.155 $\chi^2/\text{NDF}: 61.0/47$

Out: 0.514 ± 1.093 $\chi^2/\text{NDF}: 54.3/54$

All: 0.311 ± 0.794 $\chi^2/\text{NDF}: 115.4/102$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5682.062 $\pm$ 1.192 χ^2 /NDF: 1467283.2/24

Left Out: 6468.872 $\pm$ 1.079 χ^2 /NDF: 487187.3/24

Right Out: 5638.917 $\pm$ 1.108 χ^2 /NDF: 2120016.6/29

Left In: 6530.954 $\pm$ 1.121 χ^2 /NDF: 464668.6/22

Left: 6498.713 $\pm$ 0.777 χ^2 /NDF: 953447.7/47

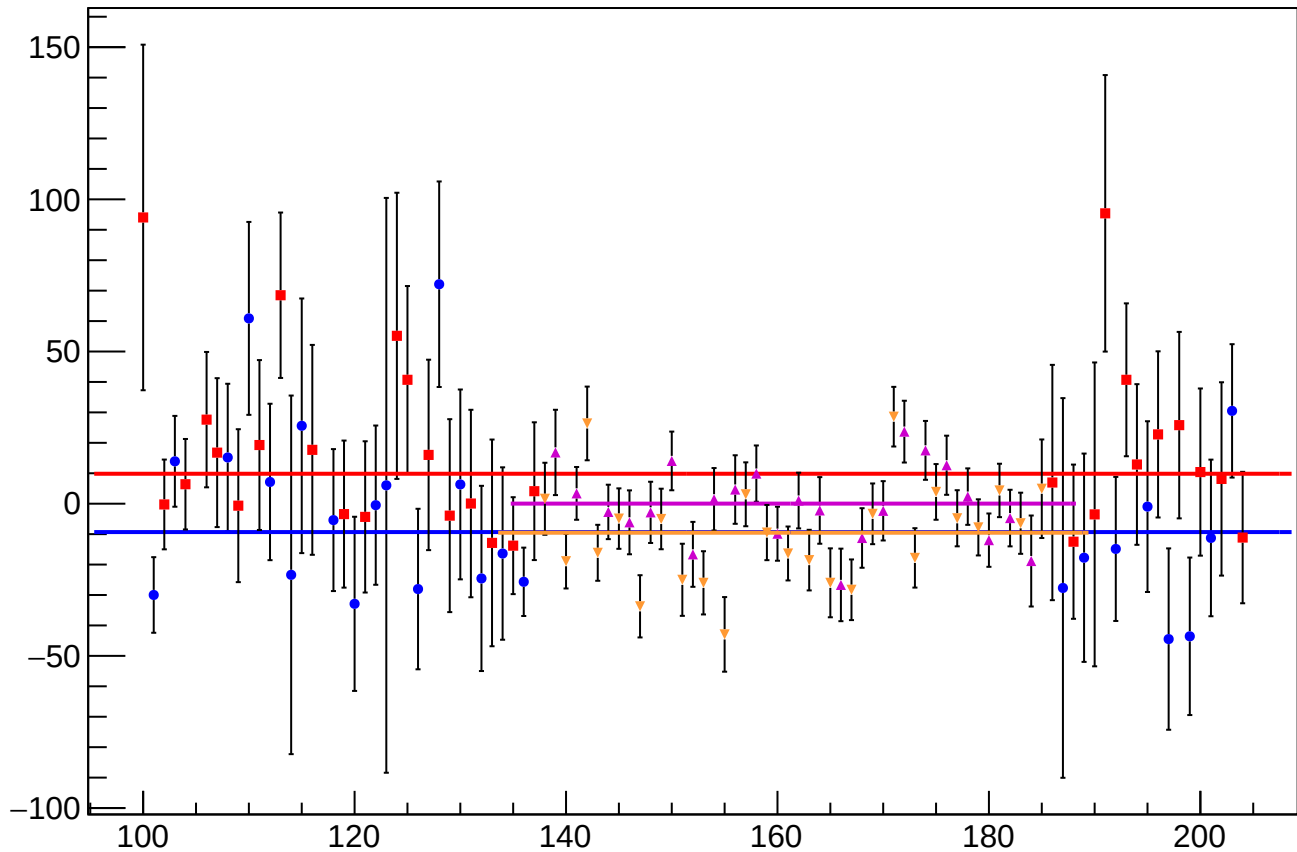
Right: 5658.910 $\pm$ 0.812 χ^2 /NDF: 3588002.6/54

In: 6132.486 $\pm$ 0.817 χ^2 /NDF: 2200957.5/47

Out: 6064.930 $\pm$ 0.773 χ^2 /NDF: 2895271.2/54

All: 6096.843 $\pm$ 0.561 χ^2 /NDF: 5099837.7/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.324 ± 4.732 χ^2/NDF : 28.9/24

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

Right Out: 9.838 ± 4.669 χ^2/NDF : 21.4/29

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

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

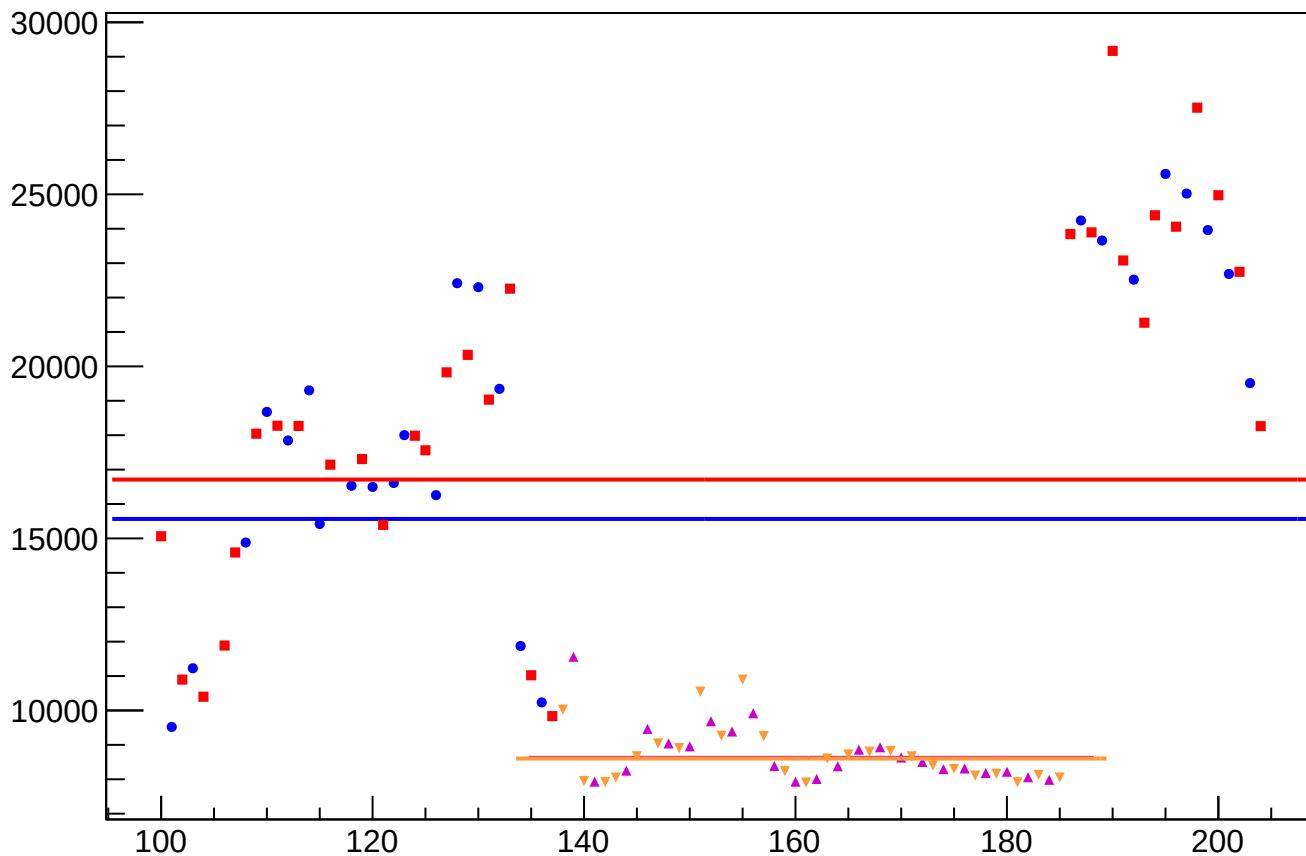
Right: 0.385 ± 3.324 χ^2/NDF : 58.6/54

In: -1.487 ± 1.904 χ^2/NDF : 62.0/47

Out: -6.487 ± 1.850 χ^2/NDF : 95.5/54

All: -4.059 ± 1.327 χ^2/NDF : 161.1/102

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15566.403 $\pm$ 3.346 χ^2 /NDF: 2598973.0/24

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

Right Out: 16710.550 $\pm$ 3.302 χ^2 /NDF: 2647008.1/29

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

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

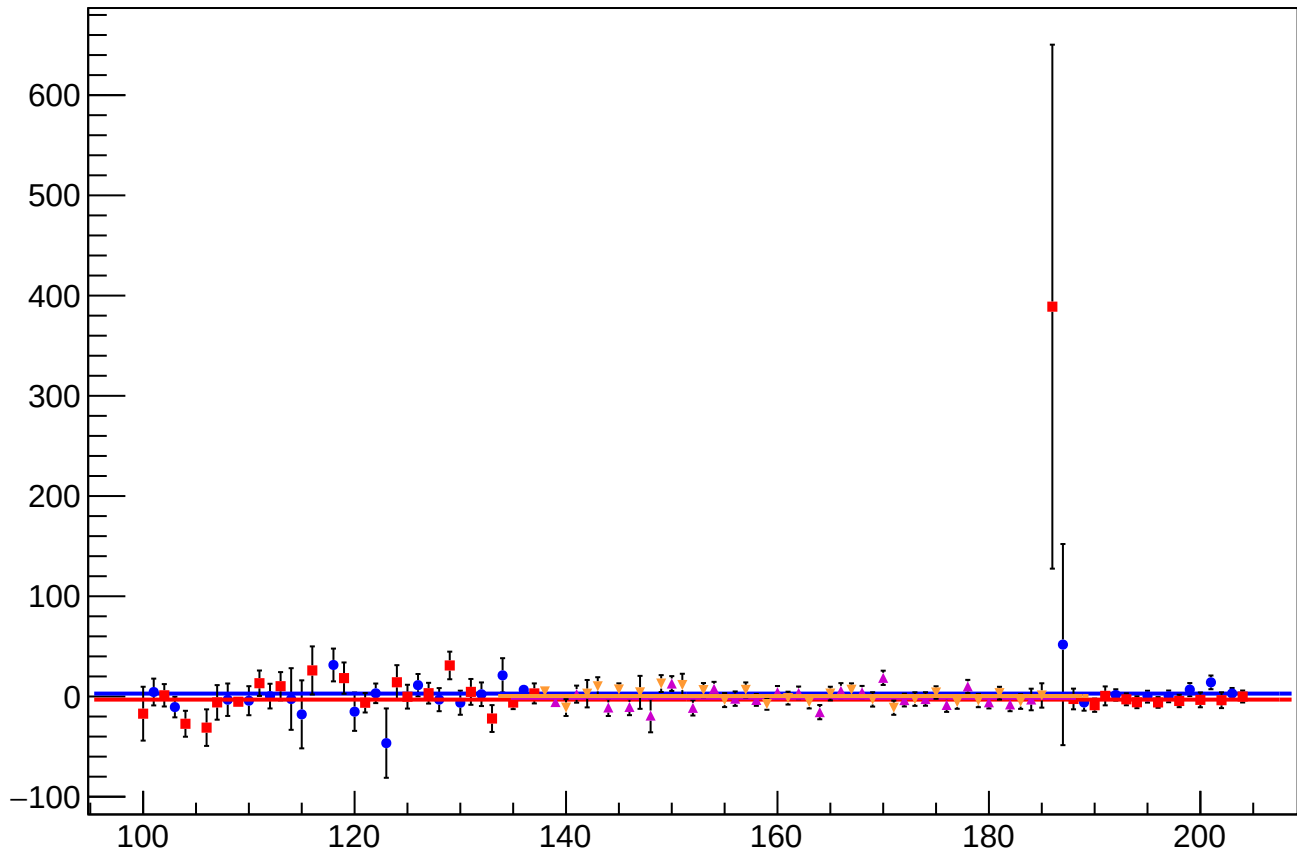
Right: 16146.120 $\pm$ 2.350 χ^2 /NDF: 5305222.0/54

In: 9746.296 $\pm$ 1.346 χ^2 /NDF: 6439666.0/47

Out: 9875.172 $\pm$ 1.308 χ^2 /NDF: 7980307.9/54

All: 9812.580 $\pm$ 0.938 χ^2 /NDF: 14424686.4/101

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.889 ± 1.787 $\chi^2/\text{NDF}: 16.8/24$

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

Right Out: -3.109 ± 1.598 $\chi^2/\text{NDF}: 27.0/29$

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

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

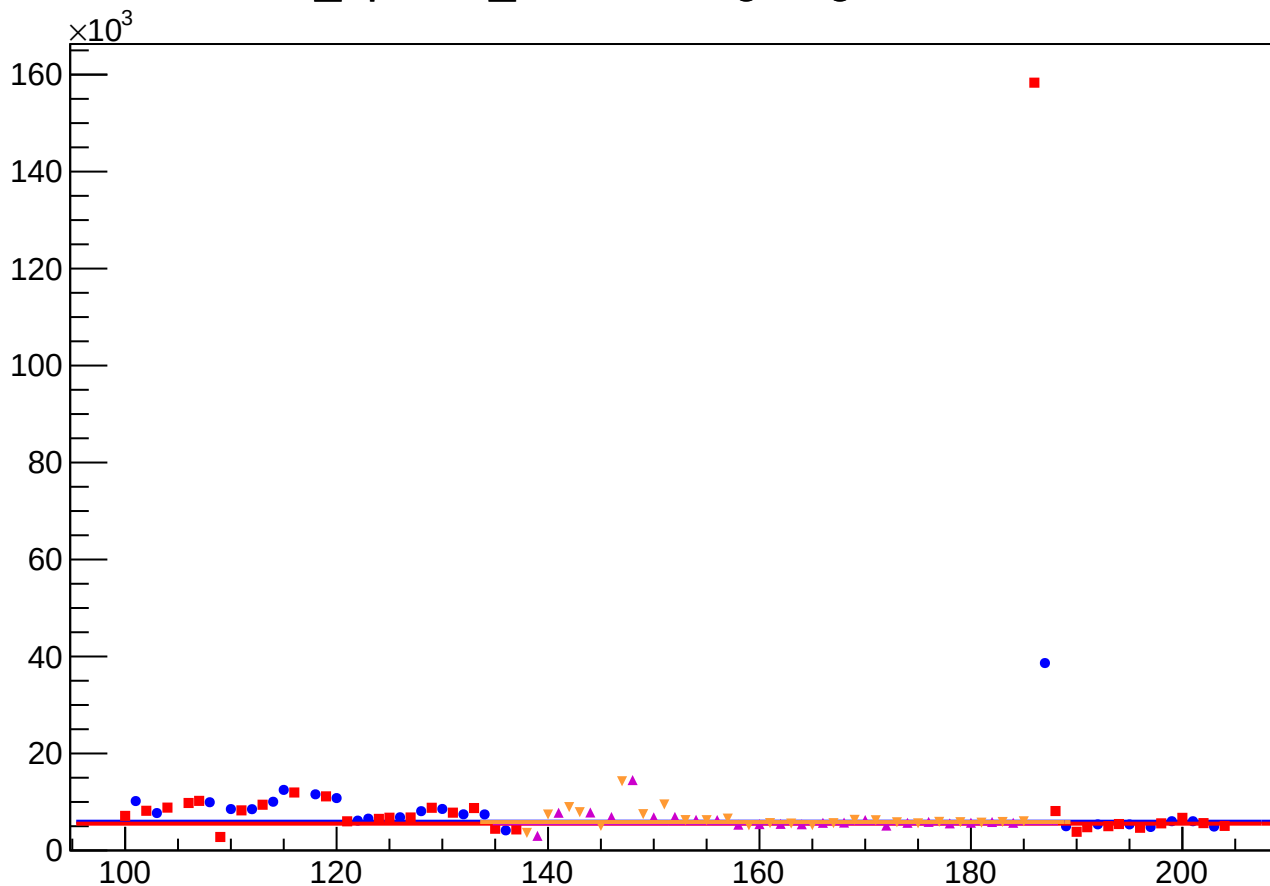
Right: -0.444 ± 1.192 $\chi^2/\text{NDF}: 50.0/54$

In: 0.303 ± 1.105 $\chi^2/\text{NDF}: 53.2/47$

Out: -1.102 ± 1.061 $\chi^2/\text{NDF}: 49.3/54$

All: -0.428 ± 0.765 $\chi^2/\text{NDF}: 103.4/102$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5931.040 ± 1.264 $\chi^2/\text{NDF}: 1969630.1/24$

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

Right Out: 5523.724 ± 1.130 $\chi^2/\text{NDF}: 3395896.1/29$

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

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

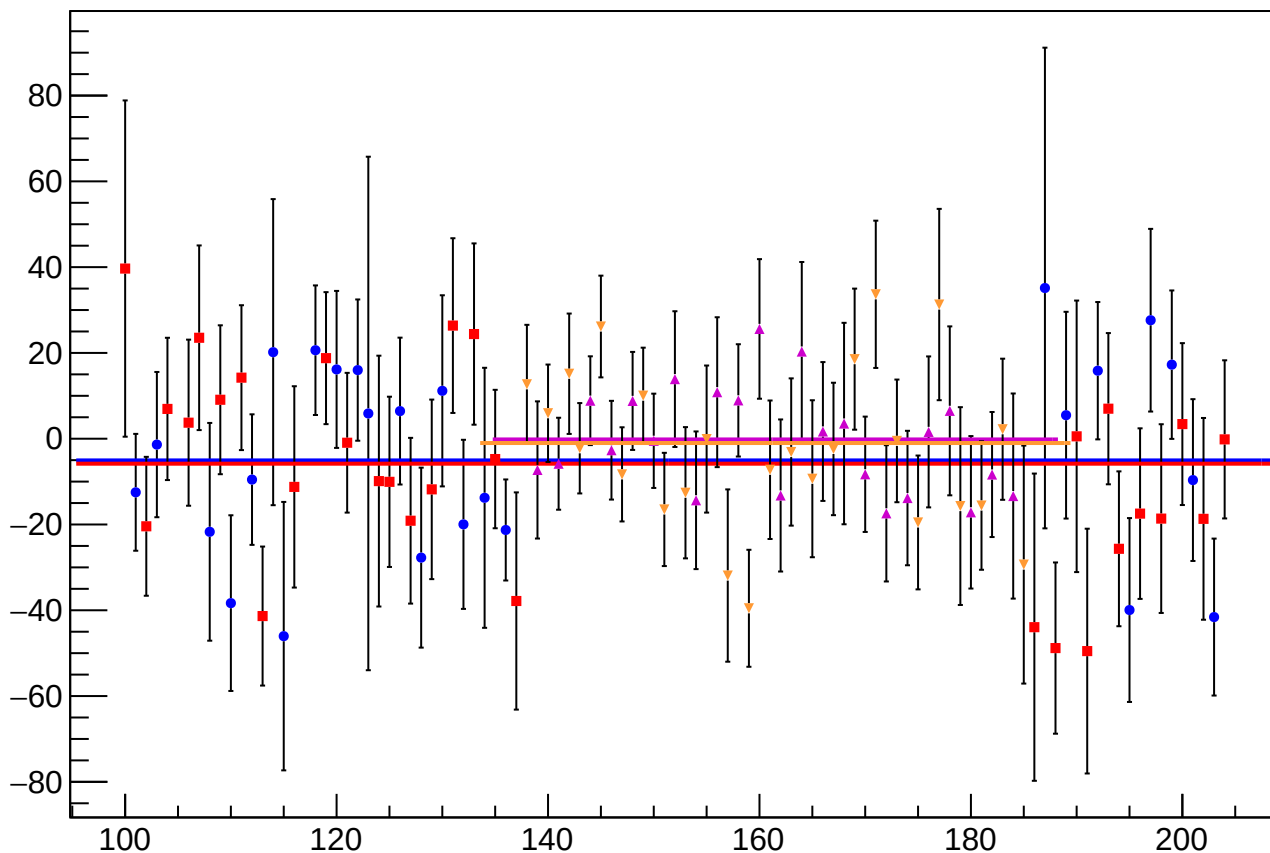
Right: 5704.722 ± 0.843 $\chi^2/\text{NDF}: 5423233.9/54$

In: 5724.635 ± 0.781 $\chi^2/\text{NDF}: 4102557.8/47$

Out: 5711.004 ± 0.750 $\chi^2/\text{NDF}: 5136337.7/54$

All: 5717.543 ± 0.541 $\chi^2/\text{NDF}: 9239053.8/10$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.062 ± 3.826 χ^2/NDF : 29.4/24

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

Right Out: -5.826 ± 3.626 χ^2/NDF : 32.5/29

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

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

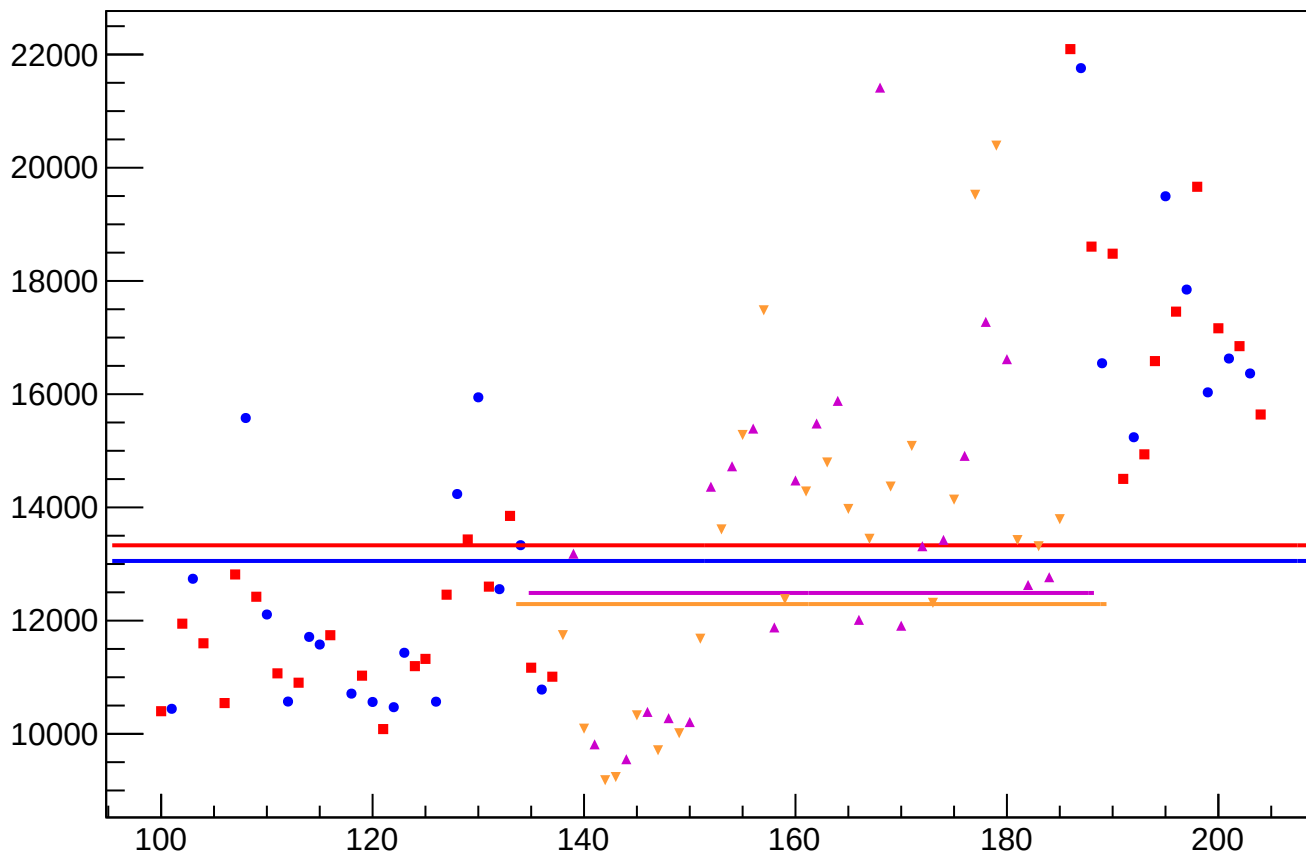
Right: -5.464 ± 2.632 χ^2/NDF : 62.0/54

In: -2.085 ± 2.393 χ^2/NDF : 42.8/47

Out: -2.919 ± 2.285 χ^2/NDF : 67.0/54

All: -2.522 ± 1.652 χ^2/NDF : 109.9/102

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13054.072+/-2.706

χ^2/NDF : 1058827.5/24

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right: 13199.698+/-1.861

χ^2/NDF : 2273714.7/54

Right Out: 13330.507+/-2.564

χ^2/NDF : 1209388.2/29

In: 12709.949+/-1.692

χ^2/NDF : 2439884.3/47

Out: 12704.475+/-1.615

χ^2/NDF : 2810751.7/54

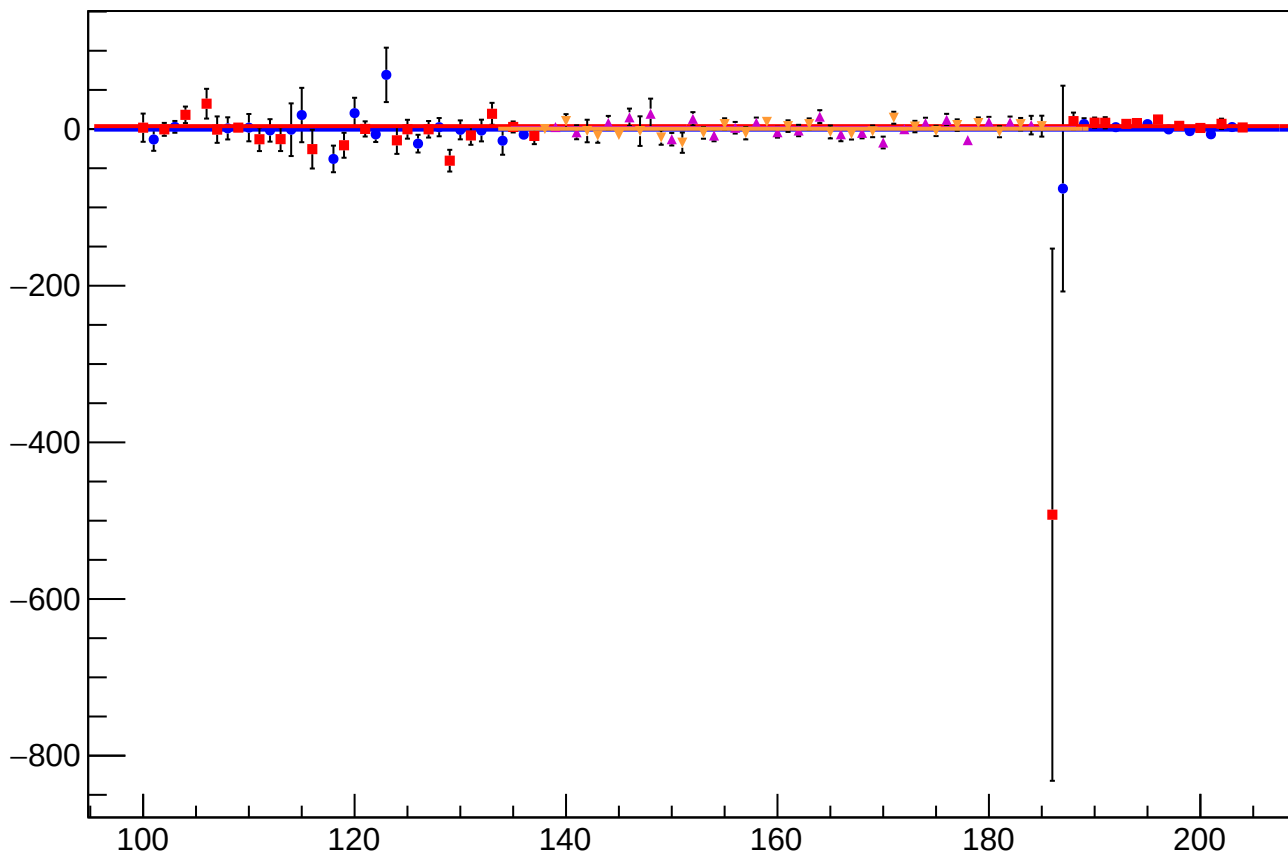
Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12707.085+/-1.168

χ^2/NDF : 5250641.5/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.723 ± 1.579 χ^2/NDF : 22.4/24

Left Out: 0.410 ± 1.435 χ^2/NDF : 19.3/24

Right Out: 3.739 ± 1.410 χ^2/NDF : 33.8/29

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

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

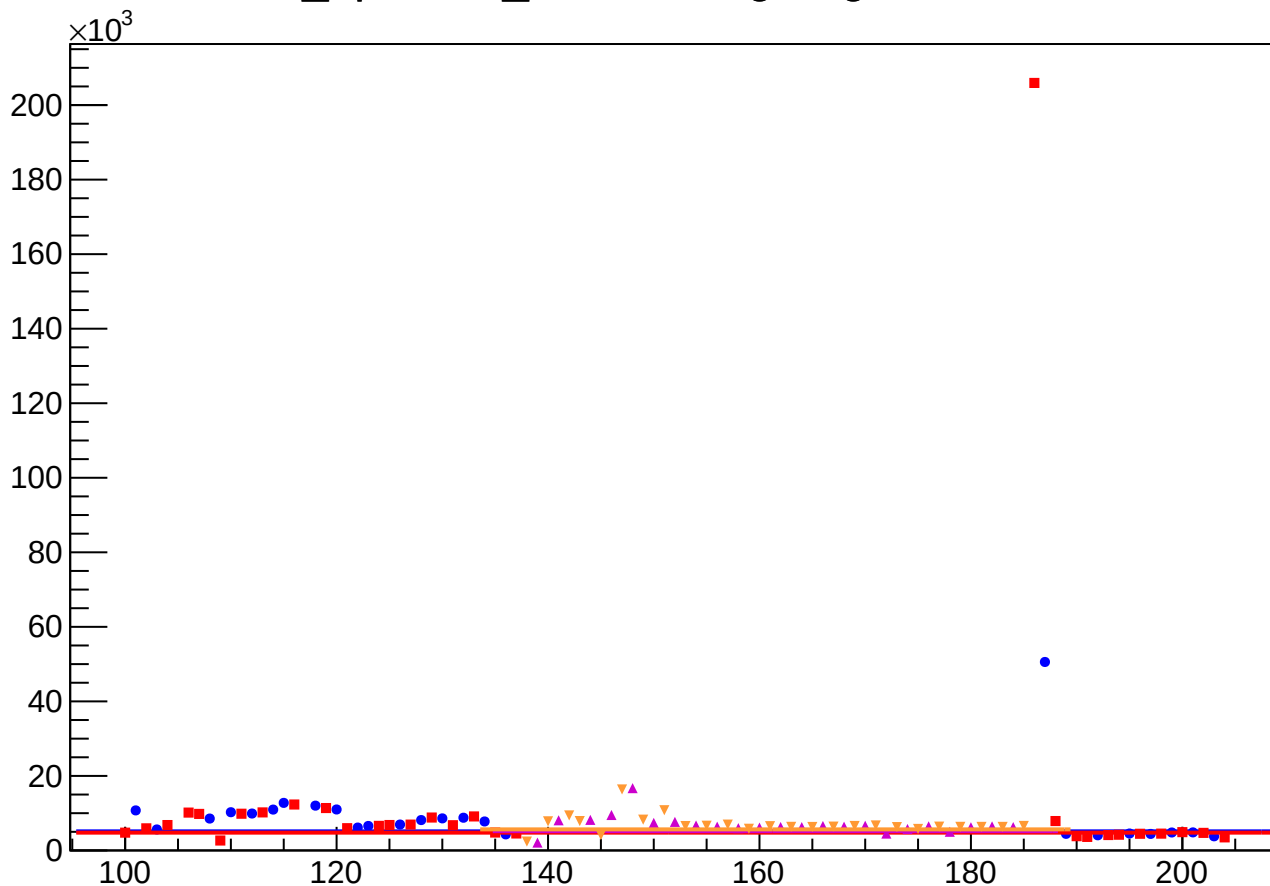
Right: 1.760 ± 1.052 χ^2/NDF : 60.7/54

In: 0.408 ± 1.042 χ^2/NDF : 57.3/47

Out: 2.104 ± 1.005 χ^2/NDF : 55.8/54

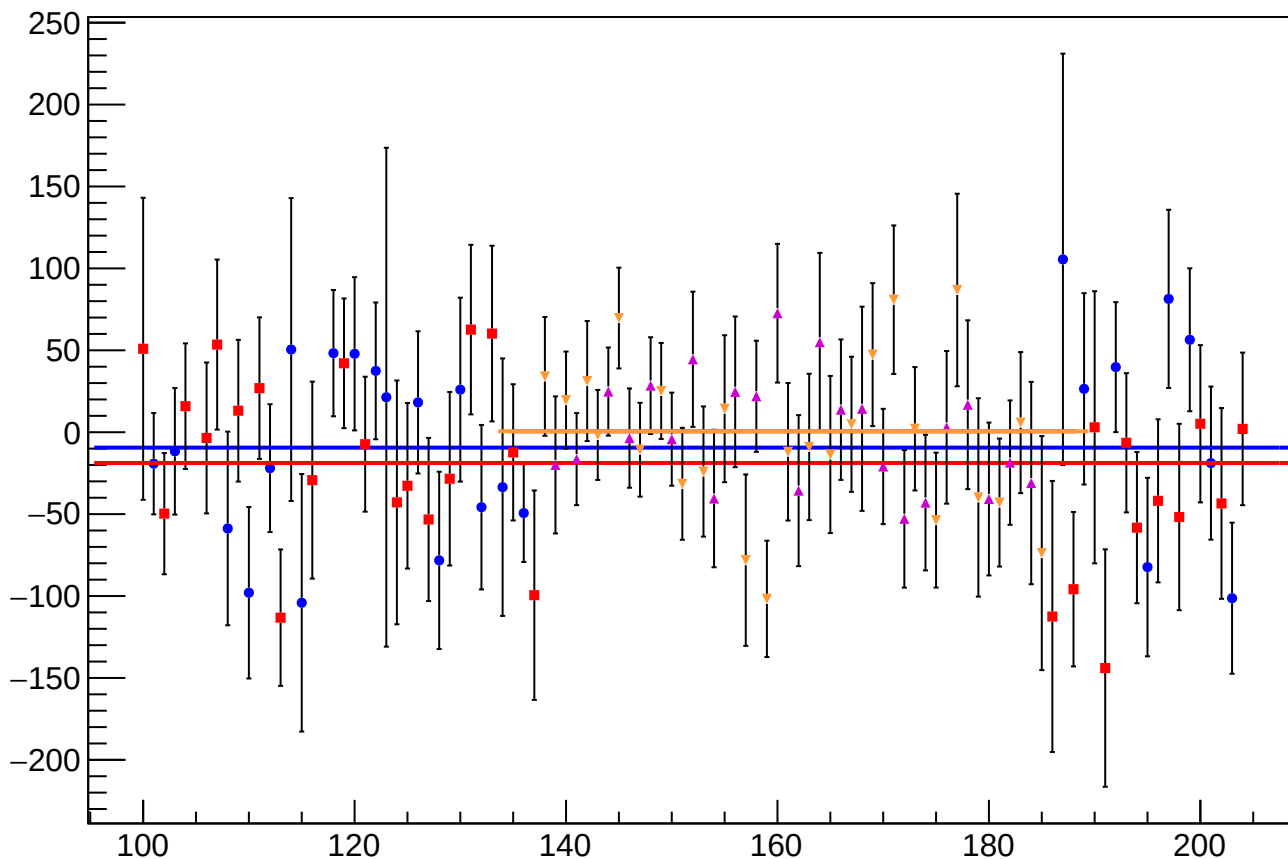
All: 1.286 ± 0.723 χ^2/NDF : 114.5/102

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5126.447 $\pm$ 1.117	χ^2/NDF : 2752485.5/24	Left: 5409.966 $\pm$ 0.705	χ^2/NDF : 9587556.1/47
Left Out: 5655.639 $\pm$ 1.014	χ^2/NDF : 4124124.3/24	Right: 4934.847 $\pm$ 0.744	χ^2/NDF : 6508676.2/54
Right Out: 4782.151 $\pm$ 0.997	χ^2/NDF : 3703282.0/29	In: 5157.122 $\pm$ 0.736	χ^2/NDF : 8103874.8/47
Left In: 5180.743 $\pm$ 0.980	χ^2/NDF : 5350053.6/22	Out: 5211.256 $\pm$ 0.711	χ^2/NDF : 8204620.4/54
		All: 5185.142 $\pm$ 0.512	χ^2/NDF : 16311291.7/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -9.404 ± 9.517 χ^2/NDF : 29.1/24

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

Right Out: -18.756 ± 9.033 χ^2/NDF : 29.4/29

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

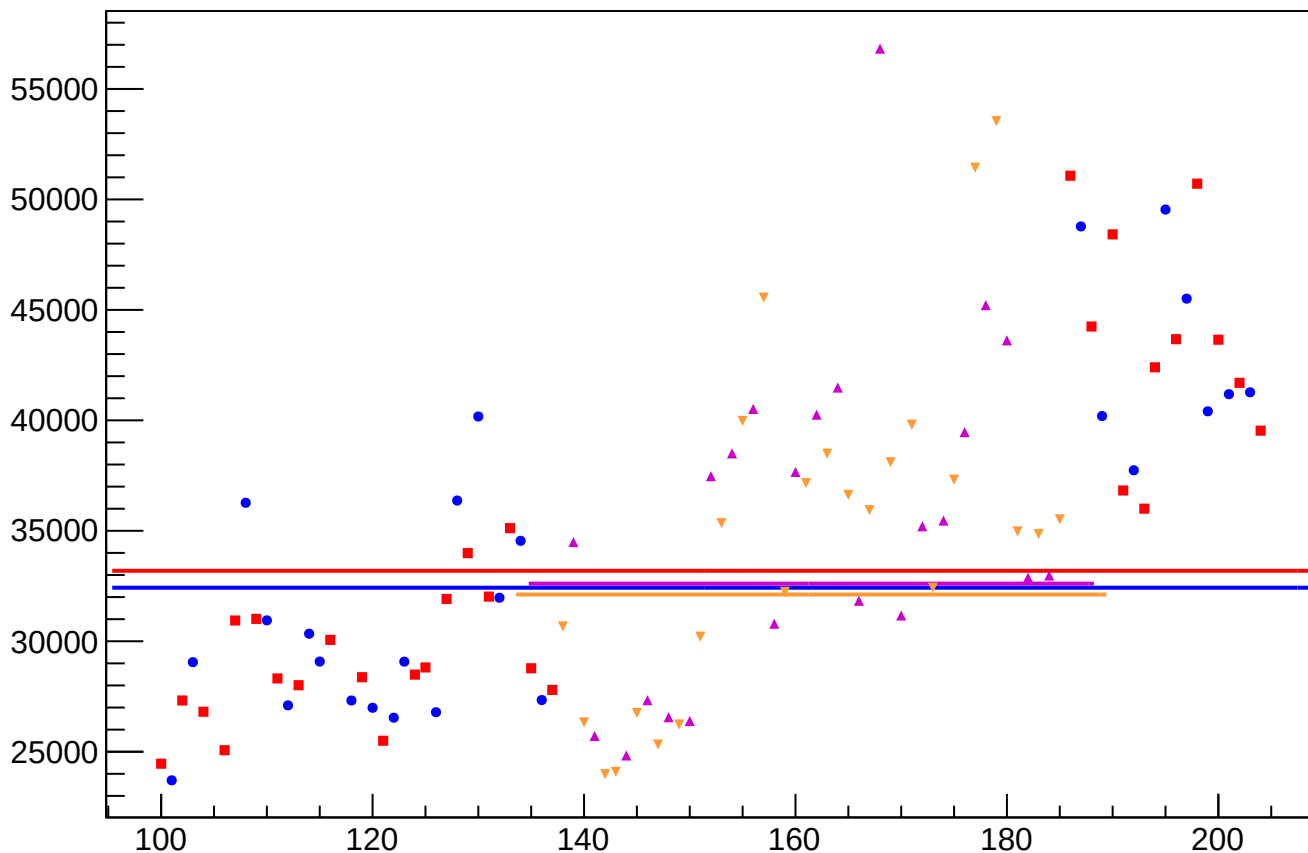
Right: -14.324 ± 6.552 χ^2/NDF : 59.0/54

In: -3.572 ± 6.130 χ^2/NDF : 44.0/47

Out: -7.546 ± 5.856 χ^2/NDF : 63.0/54

All: -5.650 ± 4.234 χ^2/NDF : 107.3/102

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32424.044+/-6.729

χ^2/NDF : 1100401.6/24

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 33190.768+/-6.388

χ^2/NDF : 1238333.5/29

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483+/-3.924

χ^2/NDF : 2939154.5/47

Right: 32827.381+/-4.633

χ^2/NDF : 2345563.9/54

In: 32532.905+/-4.335

χ^2/NDF : 2499324.7/47

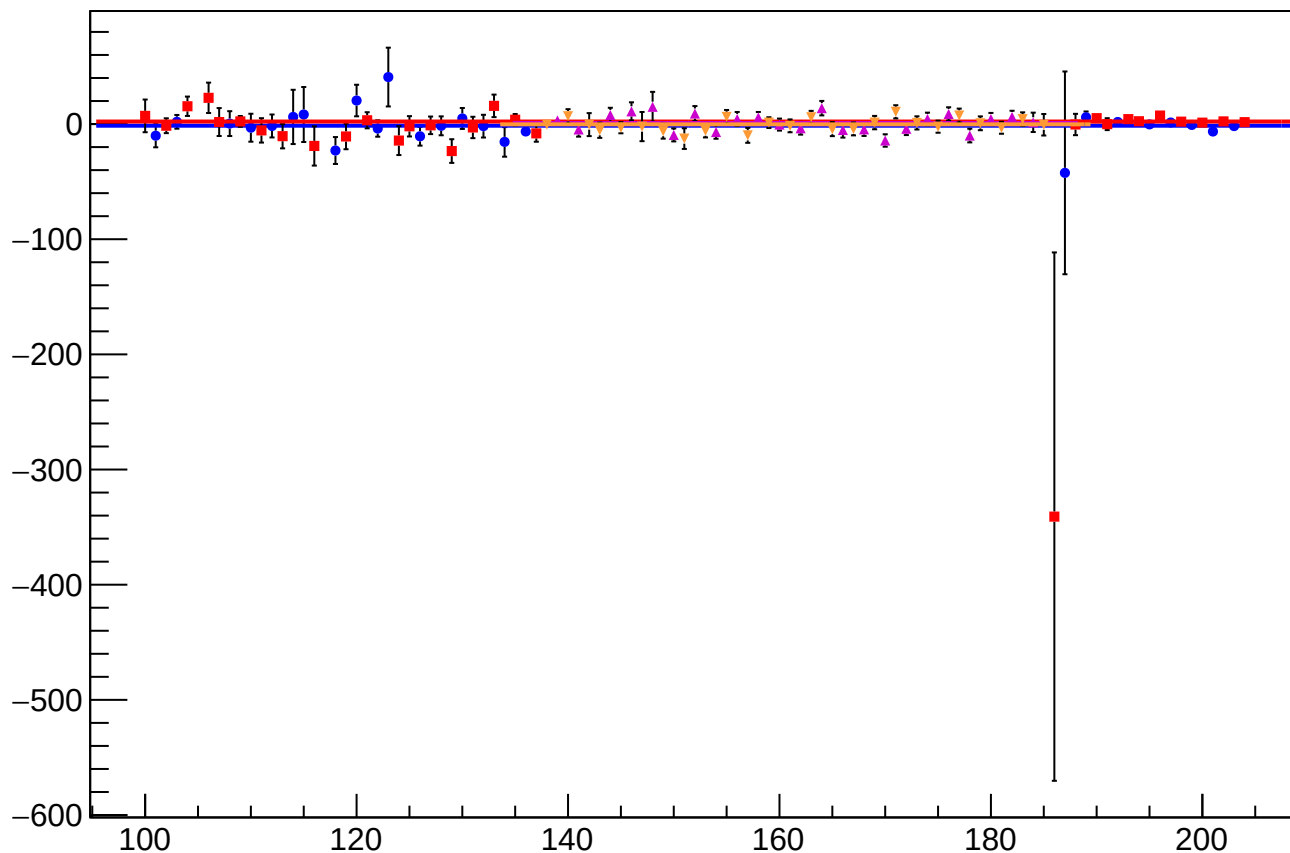
Out: 32568.331+/-4.141

χ^2/NDF : 2791451.7/54

All: 32551.429+/-2.994

χ^2/NDF : 5290811.3/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.434 ± 1.057 χ^2/NDF : 21.4/24

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

Right Out: 2.200 ± 0.979 χ^2/NDF : 29.1/29

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

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

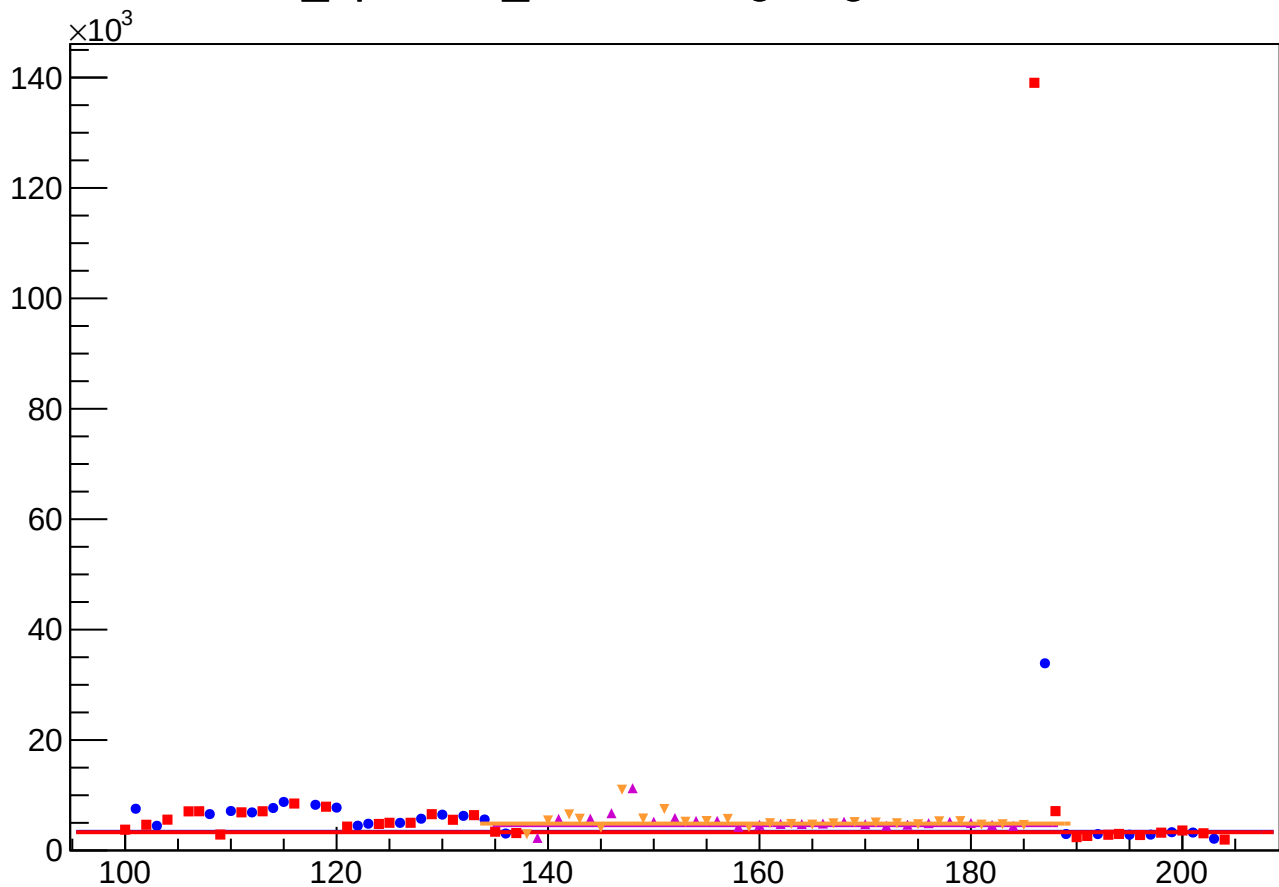
Right: 0.522 ± 0.718 χ^2/NDF : 56.9/54

In: -0.357 ± 0.779 χ^2/NDF : 59.8/47

Out: 1.191 ± 0.752 χ^2/NDF : 49.7/54

All: 0.445 ± 0.541 χ^2/NDF : 111.6/102

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3373.892 ± 0.748 $\chi^2/\text{NDF}: 3459677.0/24$

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

Right Out: 3305.906 ± 0.693 $\chi^2/\text{NDF}: 4328154.8/29$

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

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

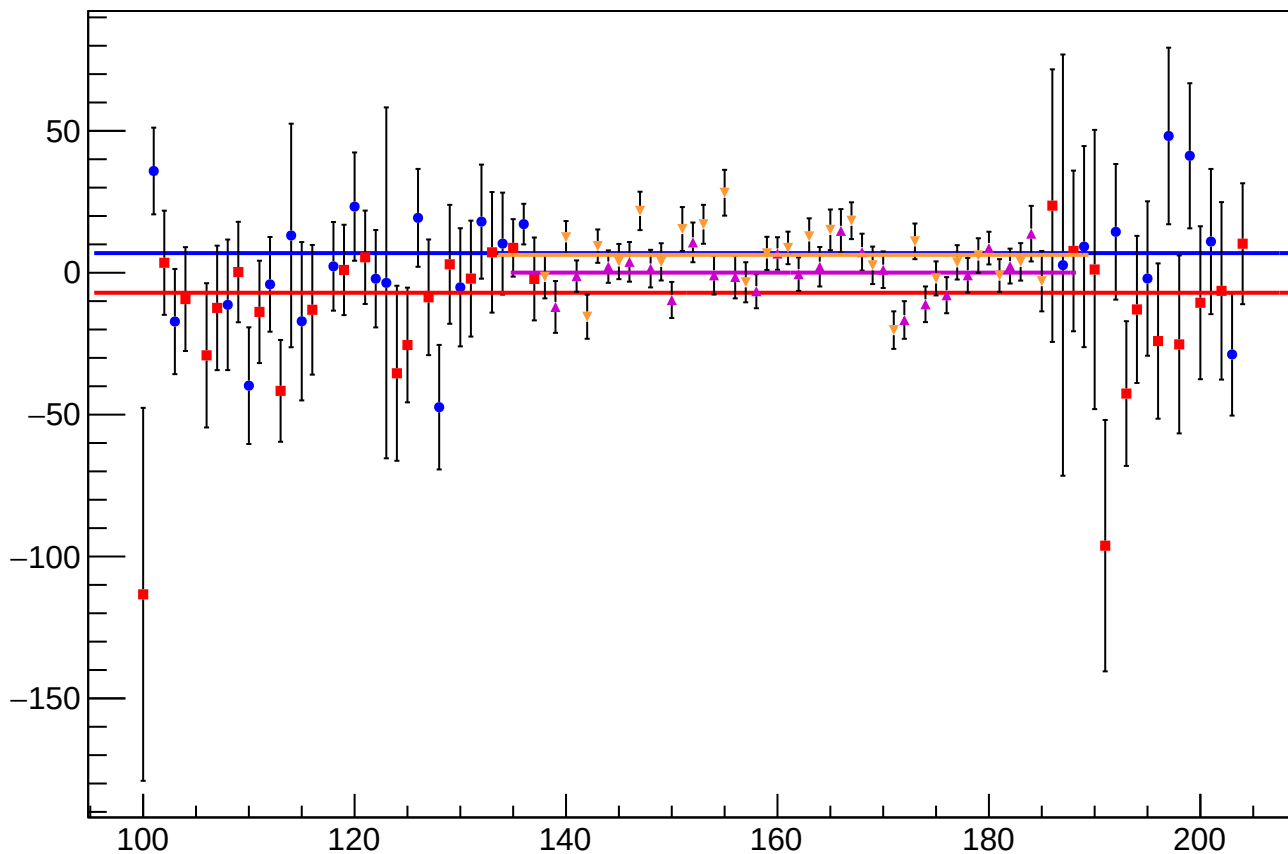
Right: 3337.305 ± 0.508 $\chi^2/\text{NDF}: 7792282.9/54$

In: 3925.391 ± 0.551 $\chi^2/\text{NDF}: 7130848.0/47$

Out: 3947.023 ± 0.532 $\chi^2/\text{NDF}: 7925950.2/54$

All: 3936.598 ± 0.383 $\chi^2/\text{NDF}: 15057596.4/100$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.922 ± 3.763 $\chi^2/\text{NDF}: 29.3/24$

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

Right Out: -7.049 ± 3.819 $\chi^2/\text{NDF}: 21.8/29$

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

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

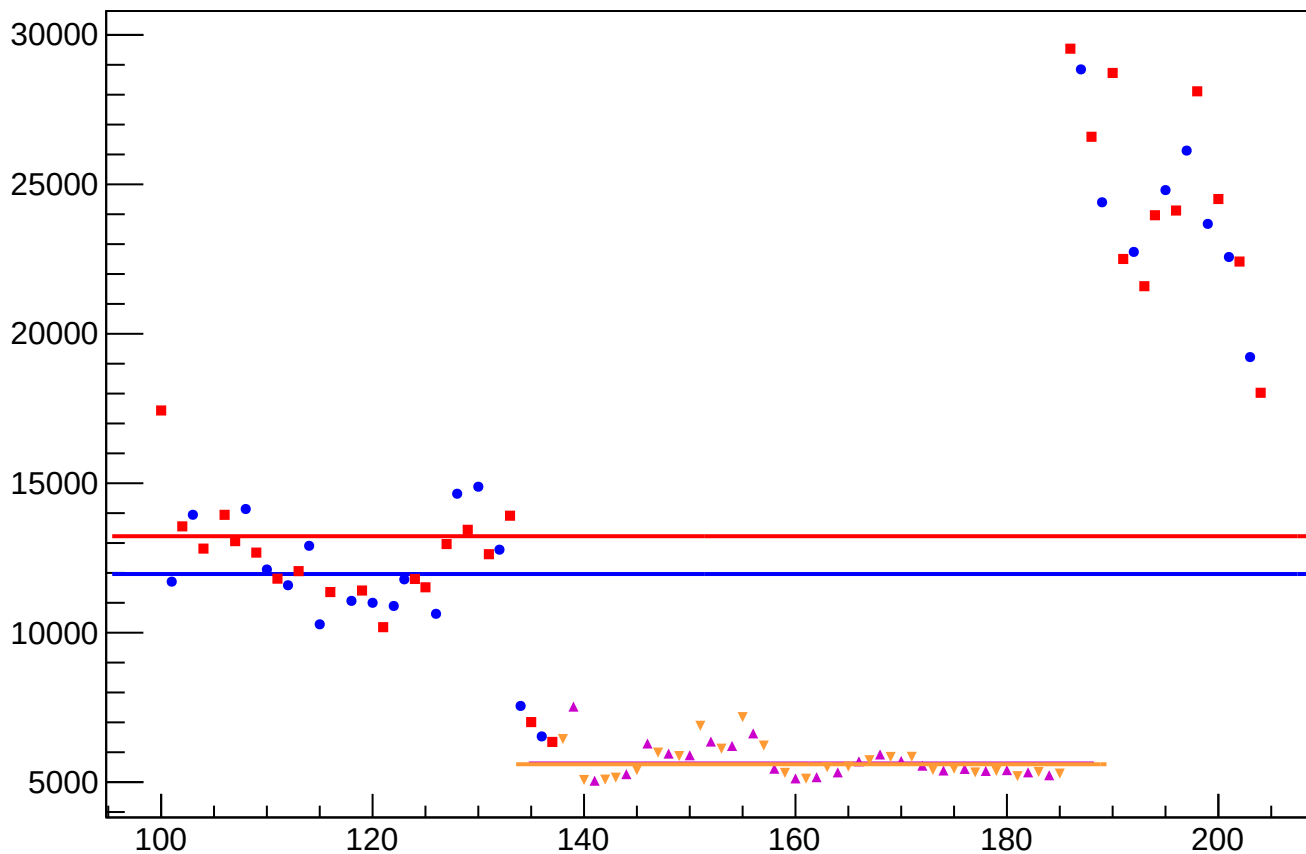
Right: 0.041 ± 2.680 $\chi^2/\text{NDF}: 57.9/54$

In: 0.837 ± 1.277 $\chi^2/\text{NDF}: 62.3/47$

Out: 4.892 ± 1.241 $\chi^2/\text{NDF}: 89.4/54$

All: 2.922 ± 0.890 $\chi^2/\text{NDF}: 156.9/102$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11963.016 $\pm$ 2.661 χ^2 /NDF: 4034109.0/24

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

Right Out: 13227.988 $\pm$ 2.701 χ^2 /NDF: 4276395.8/29

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

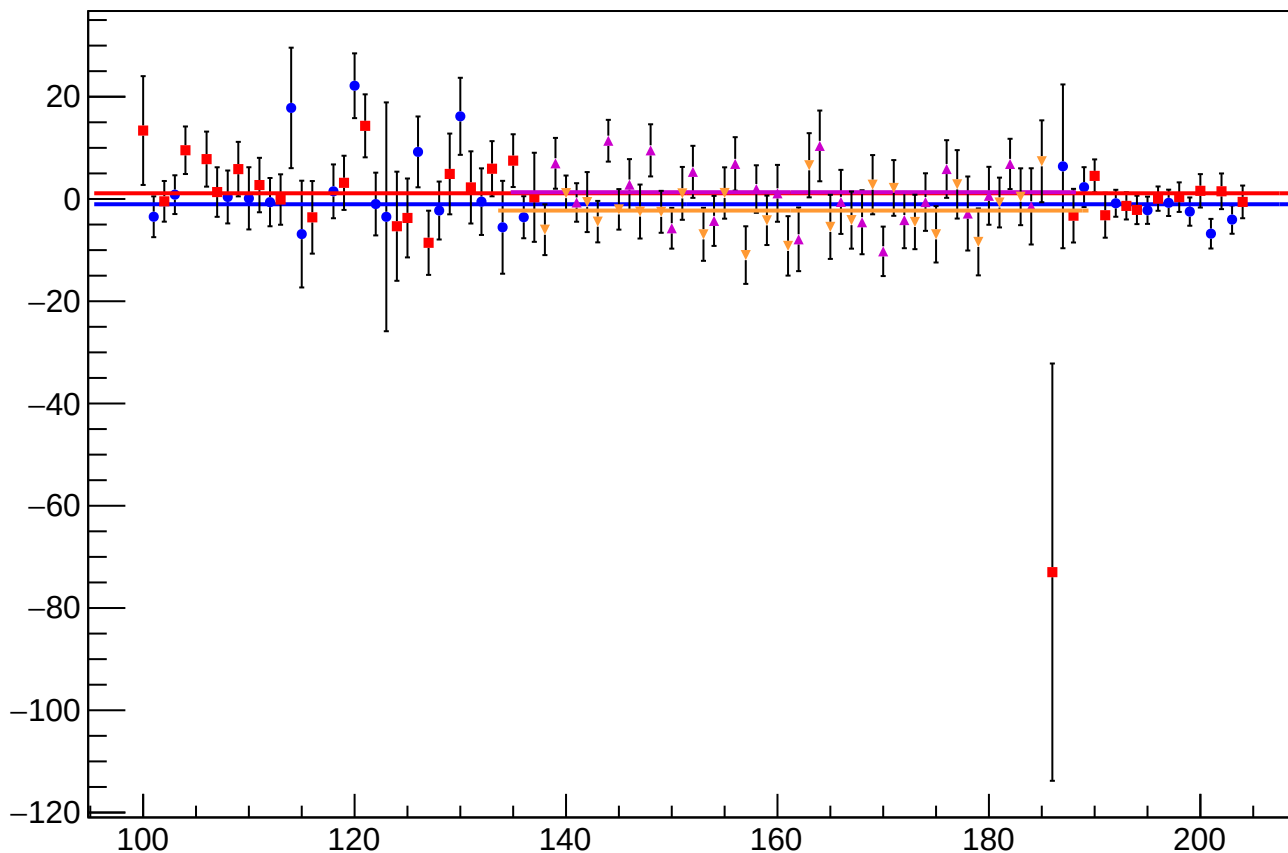
Right: 12586.082 $\pm$ 1.895 χ^2 /NDF: 8421833.2/54

In: 6355.255 $\pm$ 0.903 χ^2 /NDF: 9326885.3/47

Out: 6404.638 $\pm$ 0.878 χ^2 /NDF: 11696890.7/54

All: 6380.649 $\pm$ 0.629 χ^2 /NDF: 21025313.7/101

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -1.029 $\pm$ 0.846 χ^2/NDF : 31.9/24

Left Out: -2.262 $\pm$ 1.030 χ^2/NDF : 15.5/24

Right Out: 1.116 $\pm$ 0.794 χ^2/NDF : 27.0/29

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

Left: -0.555 $\pm$ 0.746 χ^2/NDF : 51.9/47

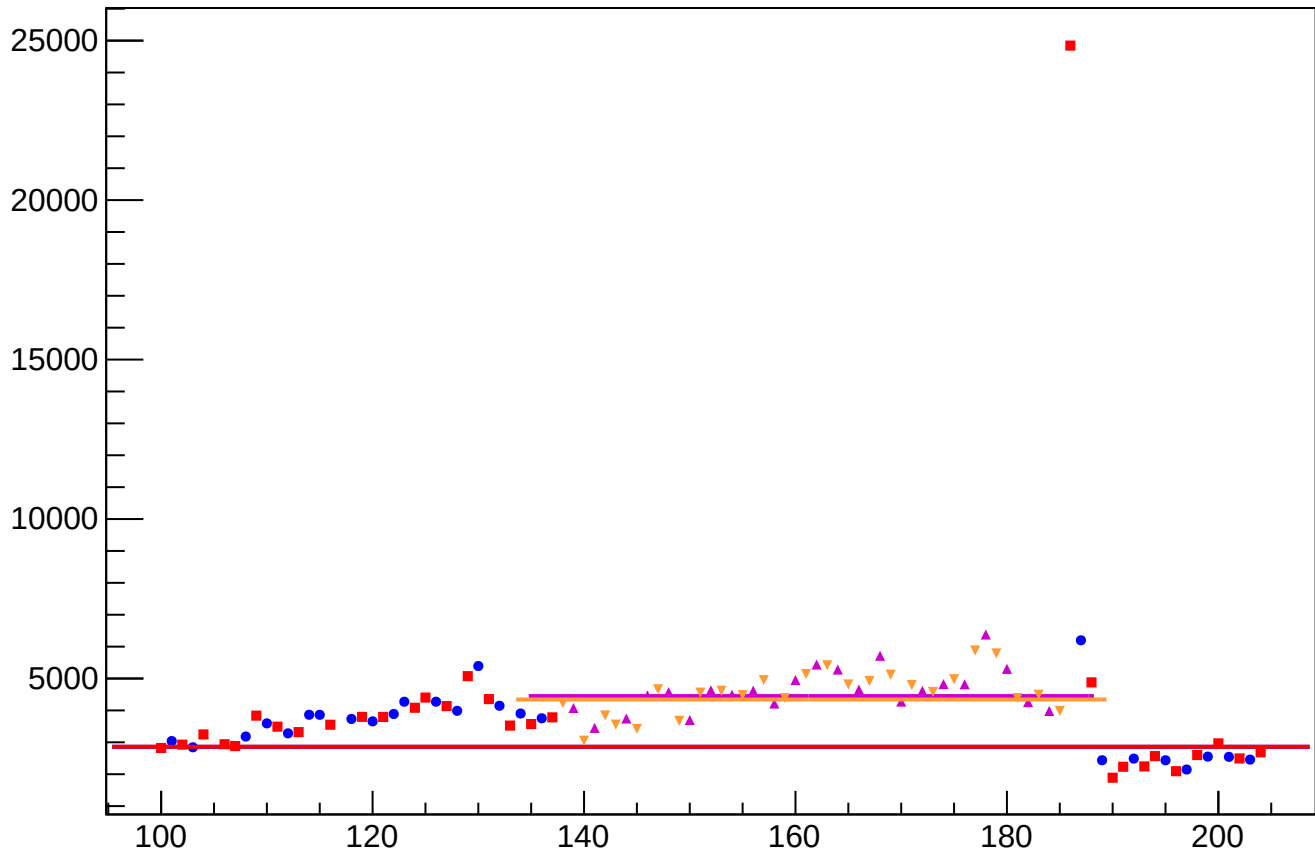
Right: 0.112 $\pm$ 0.579 χ^2/NDF : 62.3/54

In: -0.135 $\pm$ 0.666 χ^2/NDF : 65.4/47

Out: -0.142 $\pm$ 0.629 χ^2/NDF : 49.3/54

All: -0.139 $\pm$ 0.457 χ^2/NDF : 114.7/102

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2858.774+/-0.598 χ^2/NDF : 1271453.7/24

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

Right Out: 2860.823+/-0.561 χ^2/NDF : 2263531.1/29

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

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

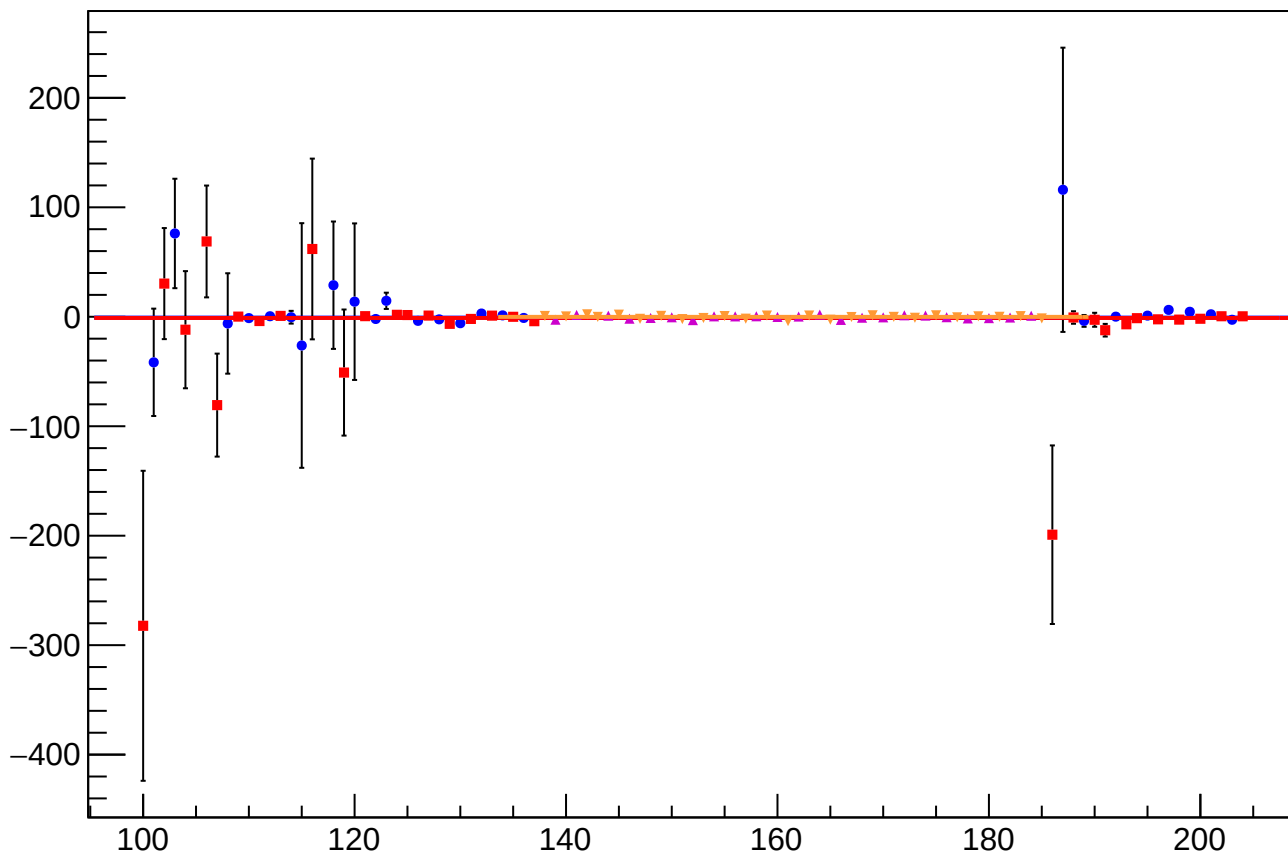
Right: 2859.863+/-0.409 χ^2/NDF : 3534991.1/54

In: 3462.511+/-0.471 χ^2/NDF : 4649024.3/47

Out: 3412.886+/-0.445 χ^2/NDF : 5853094.6/54

All: 3436.255+/-0.323 χ^2/NDF : 10507985.2/100

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.772 ± 0.651 χ^2/NDF : 25.9/24

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

Right Out: -1.088 ± 0.617 χ^2/NDF : 34.8/29

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

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

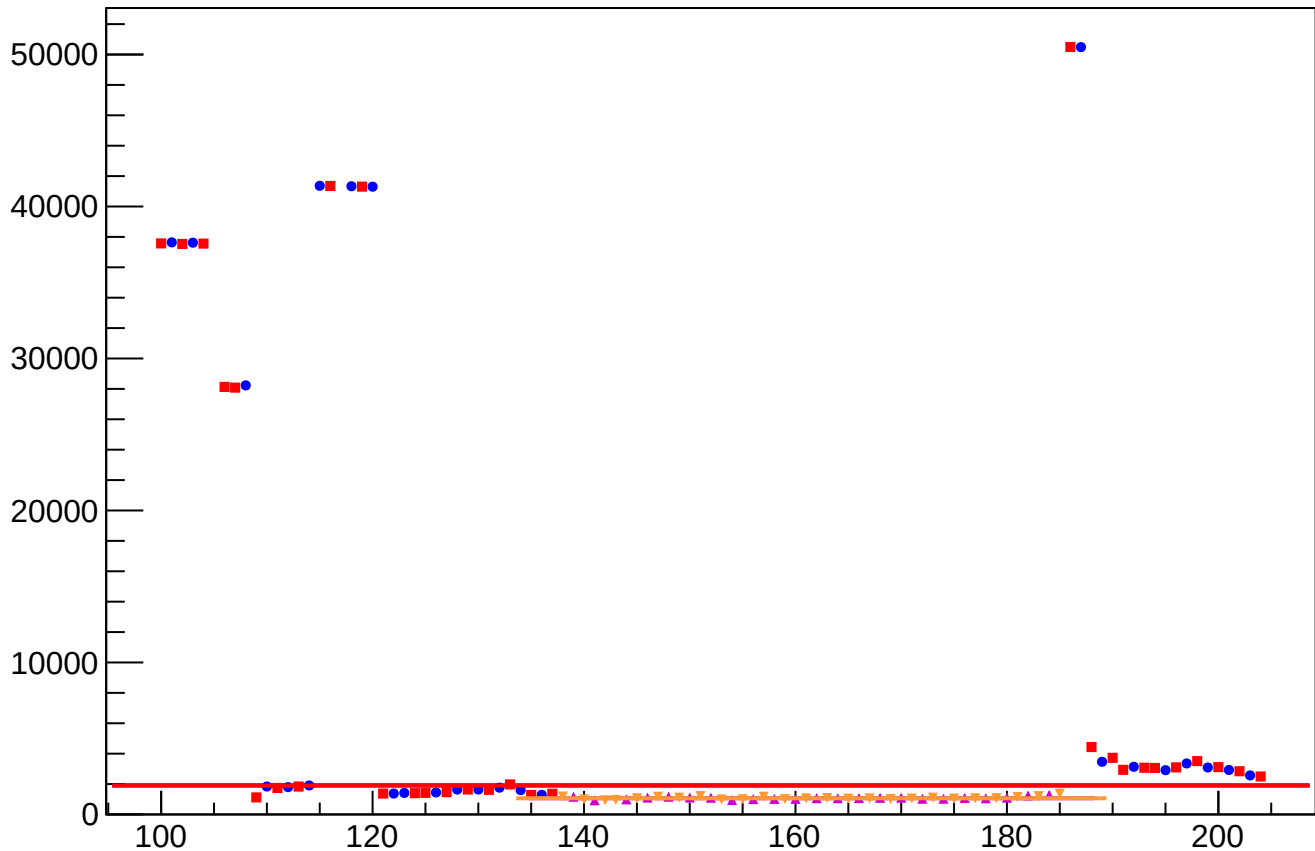
Right: -0.939 ± 0.448 χ^2/NDF : 60.8/54

In: -0.328 ± 0.239 χ^2/NDF : 53.6/47

Out: -0.231 ± 0.231 χ^2/NDF : 71.5/54

All: -0.278 ± 0.166 χ^2/NDF : 125.2/102

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1915.275+/-0.460

χ^2/NDF : 6903248.8/24

Left Out: 1064.701+/-0.176

χ^2/NDF : 186511.5/24

Right Out: 1898.589+/-0.436

χ^2/NDF : 8339581.5/29

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126

χ^2/NDF : 350781.3/47

Right: 1906.483+/-0.317

χ^2/NDF : 15243523.0/54

In: 1180.751+/-0.169

χ^2/NDF : 10011833.9/47

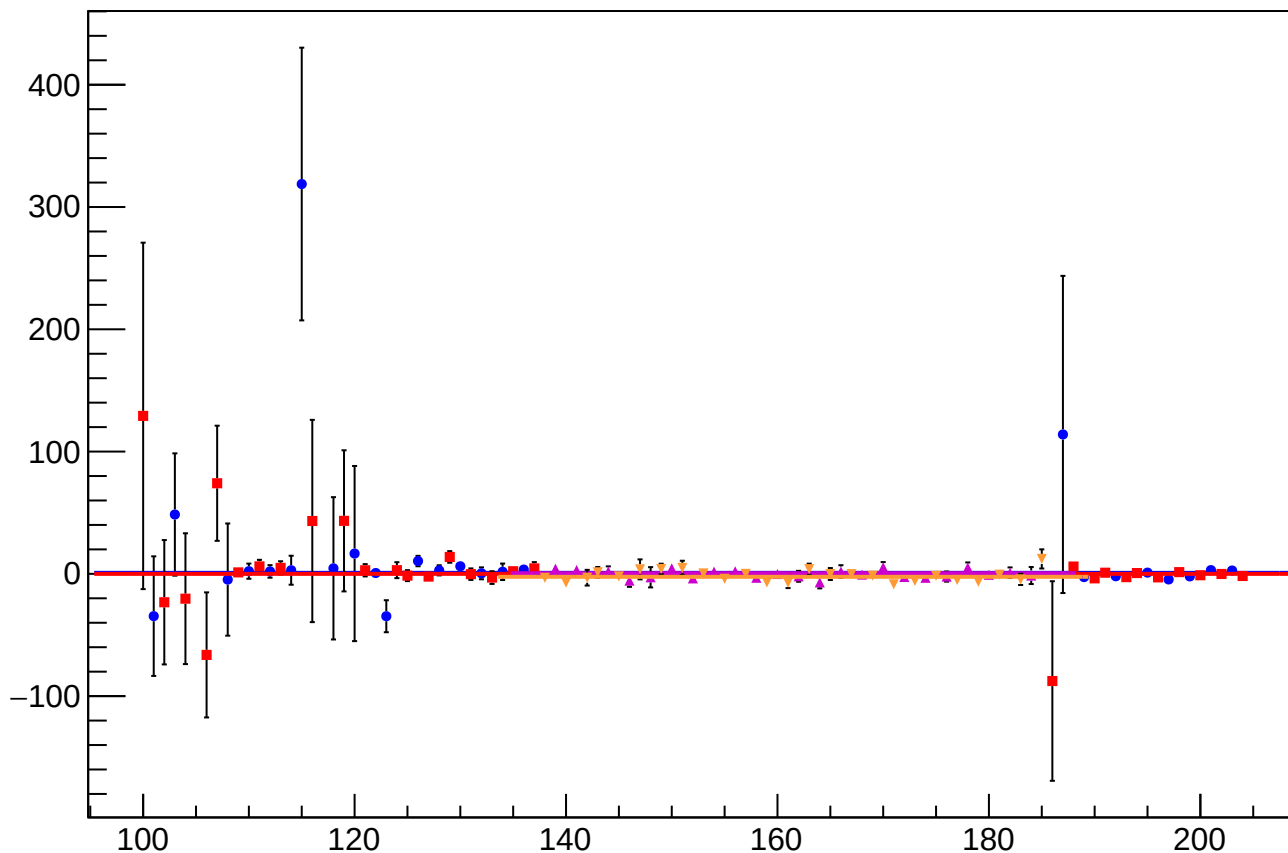
Out: 1181.619+/-0.163

χ^2/NDF : 11669964.3/54

All: 1181.199+/-0.117

χ^2/NDF : 21681811.8/100

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 0.809 ± 0.703 $\chi^2/\text{NDF}: 38.4/24$

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

Right Out: -0.005 ± 0.665 $\chi^2/\text{NDF}: 29.2/29$

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

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

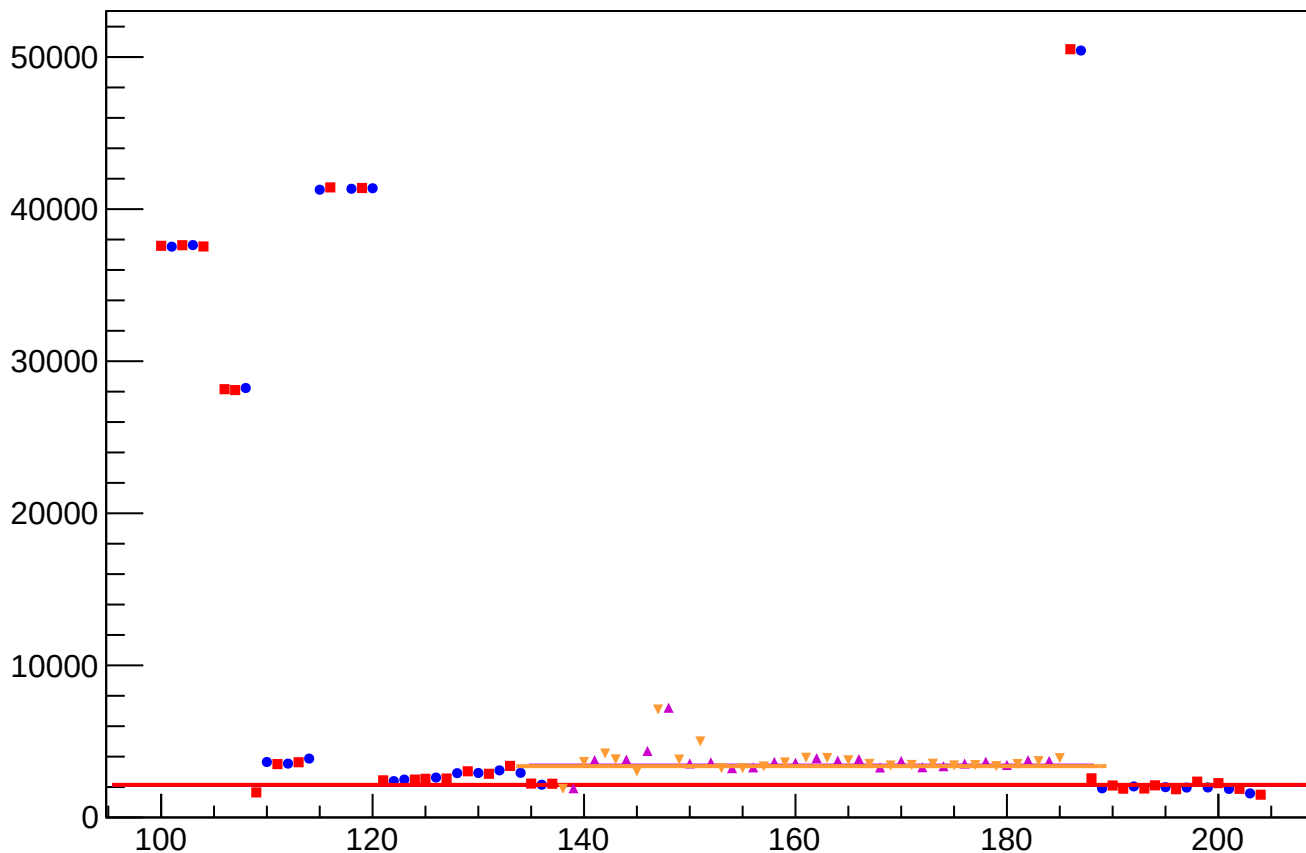
Right: 0.379 ± 0.483 $\chi^2/\text{NDF}: 68.3/54$

In: 0.669 ± 0.540 $\chi^2/\text{NDF}: 53.9/47$

Out: -0.978 ± 0.514 $\chi^2/\text{NDF}: 55.8/54$

All: -0.194 ± 0.372 $\chi^2/\text{NDF}: 114.6/102$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2135.634 ± 0.497 $\chi^2/\text{NDF}: 5603419.7/24$

Left Out: 3372.958 ± 0.573 $\chi^2/\text{NDF}: 1656864.7/24$

Right Out: 2142.015 ± 0.470 $\chi^2/\text{NDF}: 6216374.8/29$

Left In: 3411.924 ± 0.596 $\chi^2/\text{NDF}: 1434523.7/22$

Left: 3391.680 ± 0.413 $\chi^2/\text{NDF}: 3093609.1/47$

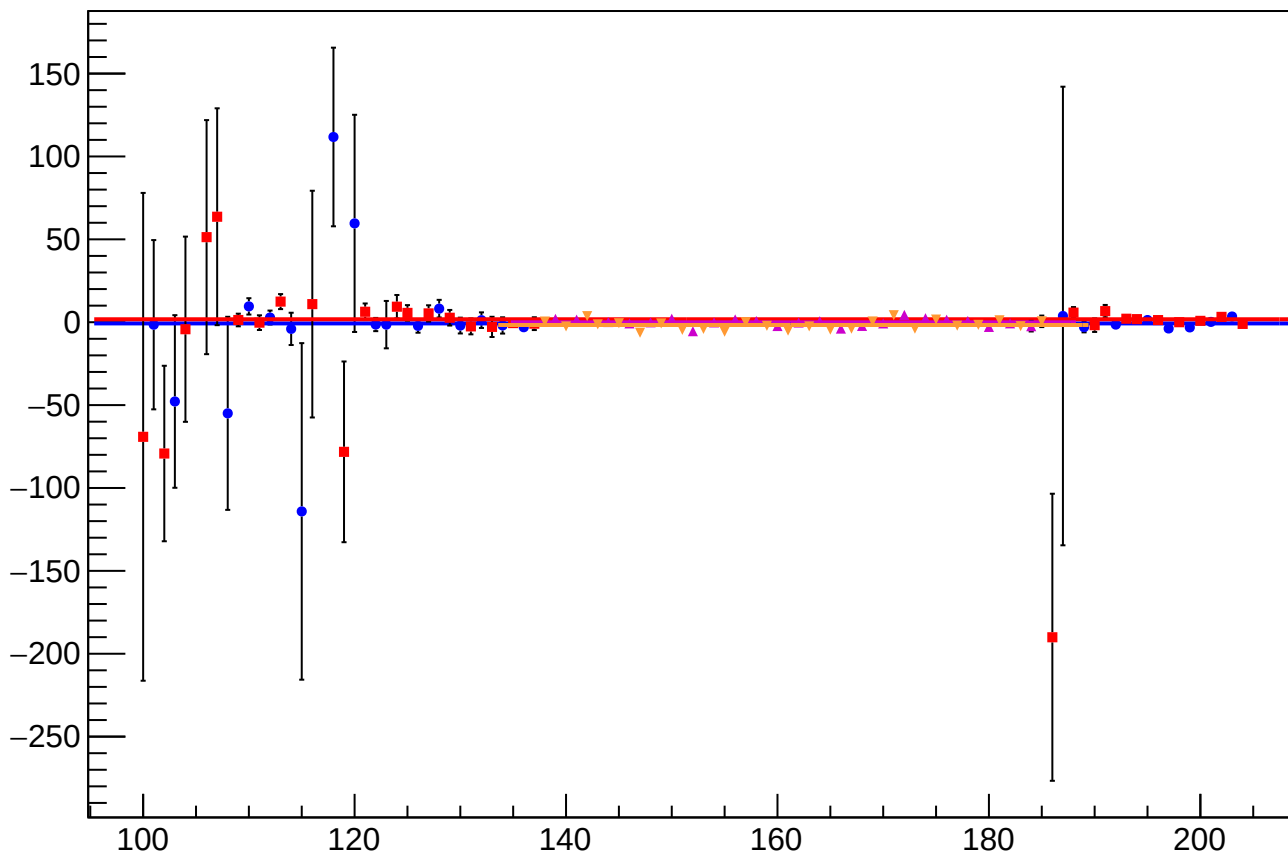
Right: 2139.000 ± 0.342 $\chi^2/\text{NDF}: 11819881.4/54$

In: 2659.250 ± 0.382 $\chi^2/\text{NDF}: 9742414.3/47$

Out: 2637.437 ± 0.364 $\chi^2/\text{NDF}: 10629439.7/54$

All: 2647.813 ± 0.263 $\chi^2/\text{NDF}: 20373565.8/101$

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.722 ± 0.714 χ^2/NDF : 25.5/24

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

Right Out: 1.785 ± 0.686 χ^2/NDF : 28.8/29

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

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

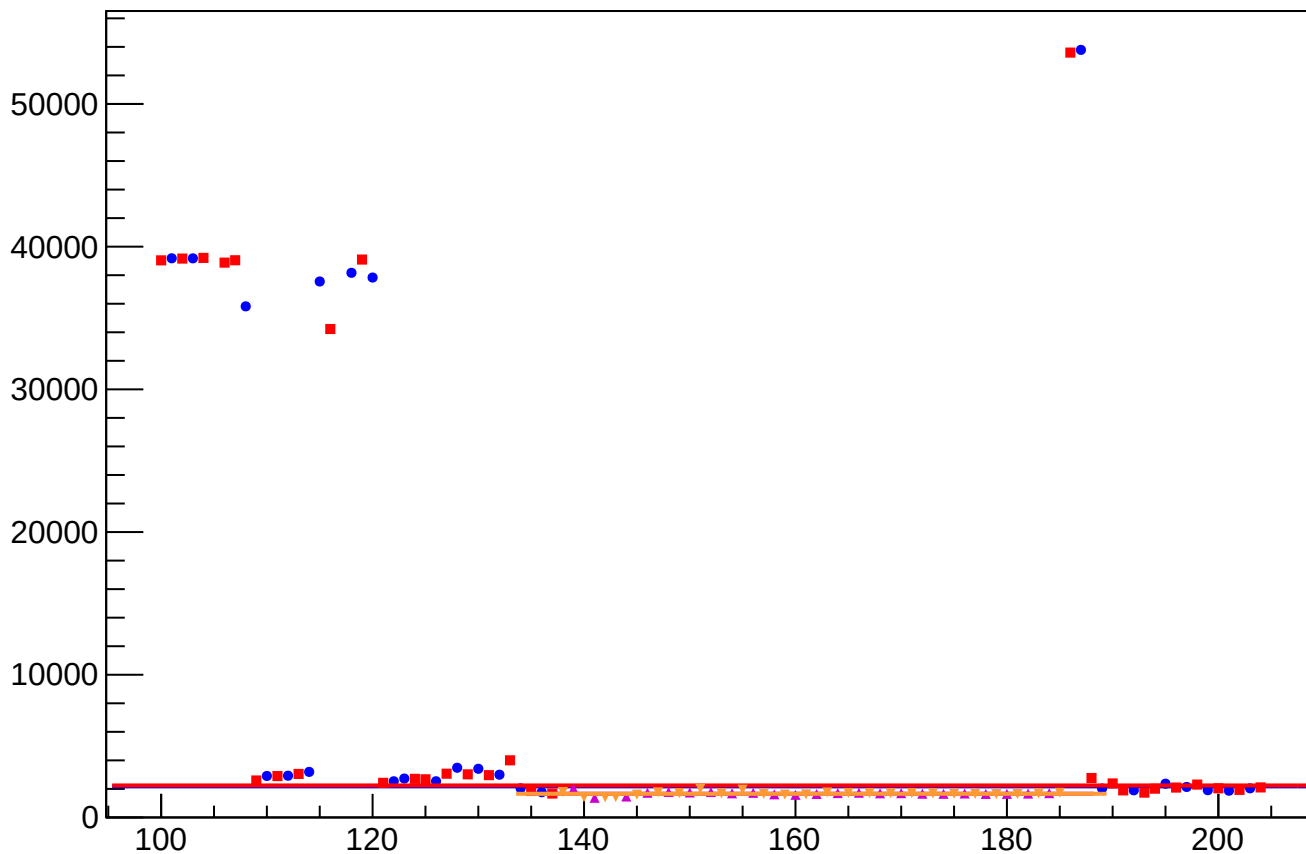
Right: 0.581 ± 0.494 χ^2/NDF : 60.7/54

In: -0.228 ± 0.350 χ^2/NDF : 54.4/47

Out: -0.834 ± 0.338 χ^2/NDF : 93.7/54

All: -0.541 ± 0.243 χ^2/NDF : 149.6/102

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2177.062+/-0.505 χ^2 /NDF: 5436907.9/24

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

Right Out: 2243.163+/-0.485 χ^2/NDF : 6027479.2/29

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

Left: 1660.599 ± 0.197 $\chi^2/\text{NDF}: 402543.2/47$

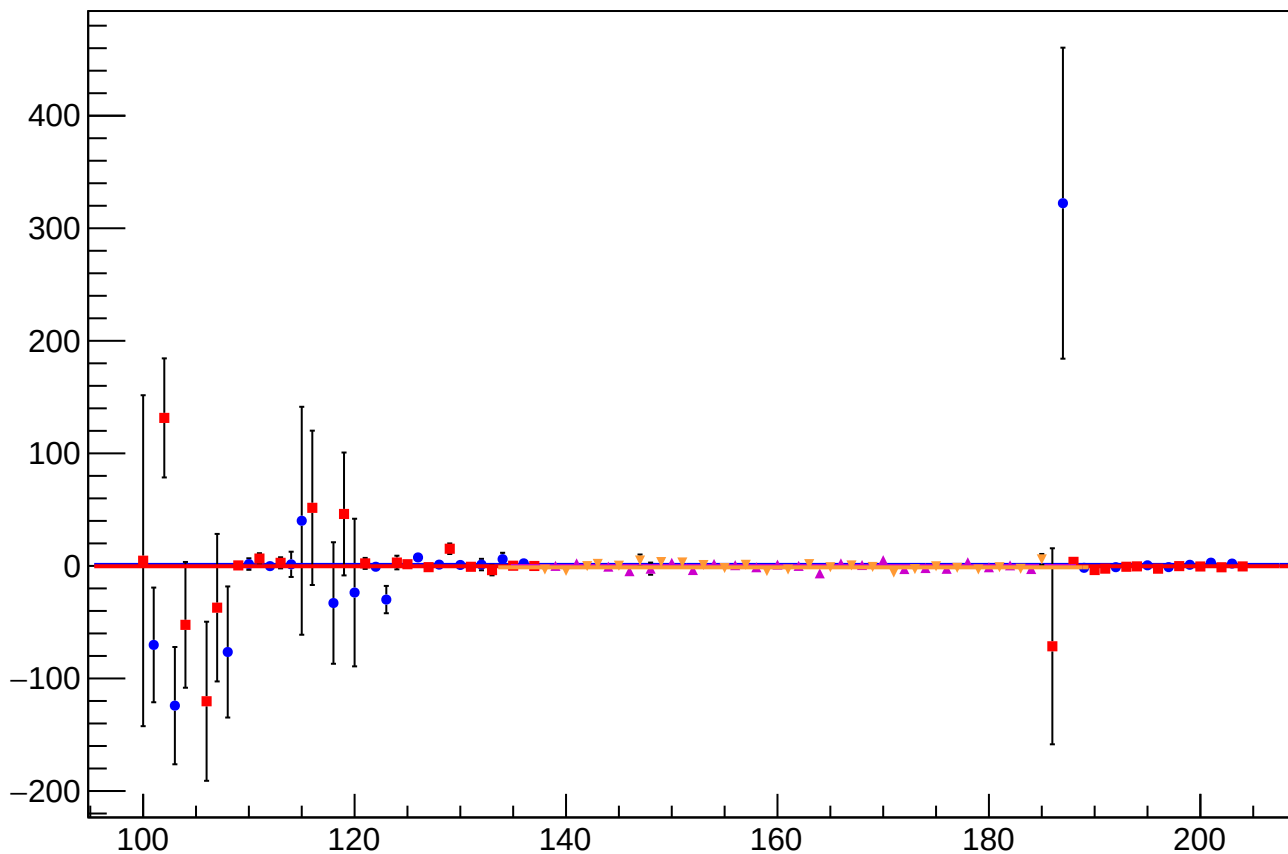
Right: 2211.424 $\pm$ 0.350 χ^2 /NDF: 11473309.1/54

In: 1786.879+/-0.247 χ^2/NDF :6402708.3/47

Out: 1799.757+/-0.239 χ^2/NDF :7354760.0/54

All: 1793.541+/-0.172 χ^2/NDF : 13758872.0/1

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.905 $\pm$ 0.589 χ^2/NDF : 31.8/24

Left Out: -1.251 $\pm$ 0.535 χ^2/NDF : 21.7/24

Right Out: -0.314 $\pm$ 0.550 χ^2/NDF : 33.0/29

Left In: -0.098 $\pm$ 0.541 χ^2/NDF : 19.3/22

Left: -0.681 $\pm$ 0.380 χ^2/NDF : 43.3/47

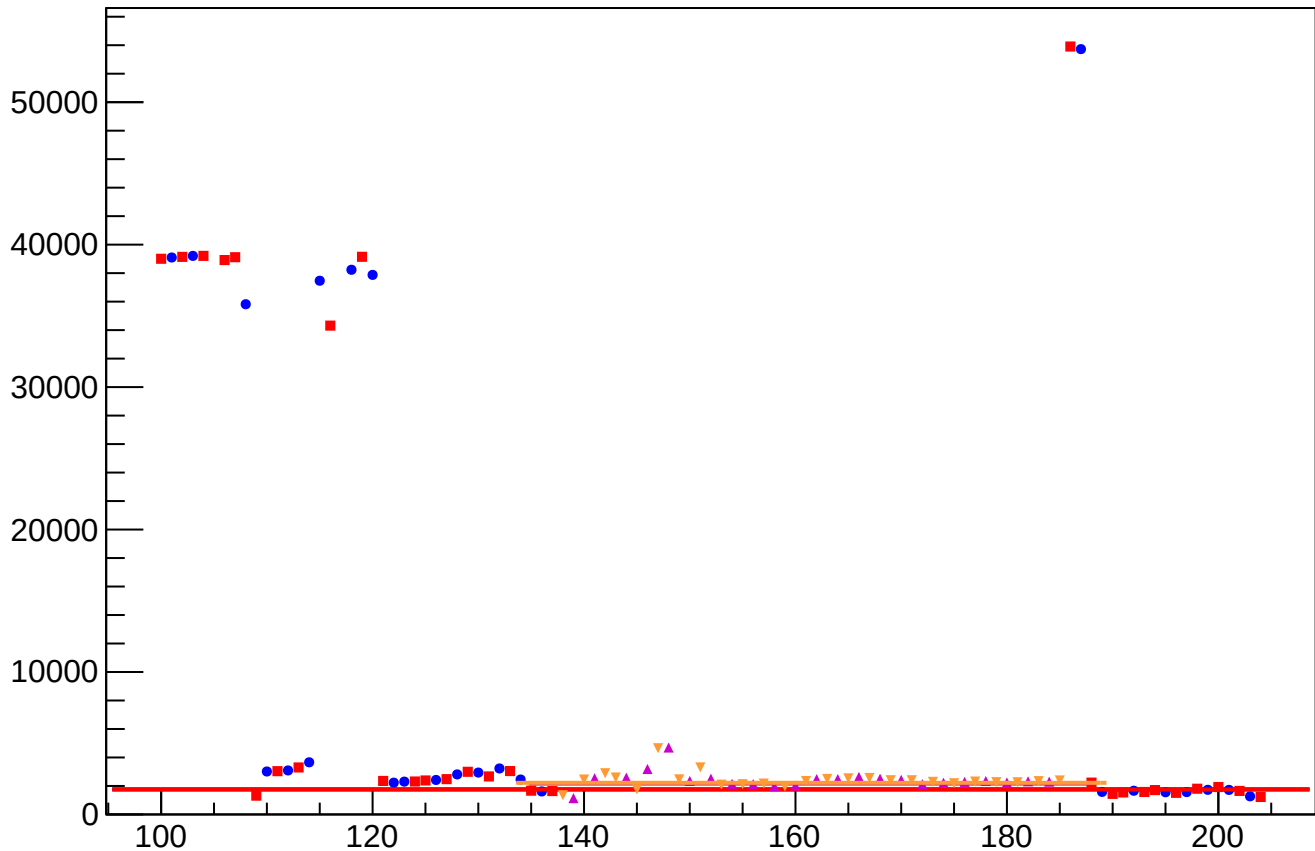
Right: 0.254 $\pm$ 0.402 χ^2/NDF : 67.1/54

In: 0.361 $\pm$ 0.398 χ^2/NDF : 52.6/47

Out: -0.795 $\pm$ 0.383 χ^2/NDF : 56.2/54

All: -0.239 $\pm$ 0.276 χ^2/NDF : 113.2/102

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1764.044+/-0.416 χ^2/NDF : 6098500.7/24

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

Right Out: 1748.691+/-0.389 χ^2/NDF : 6738788.5/29

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

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

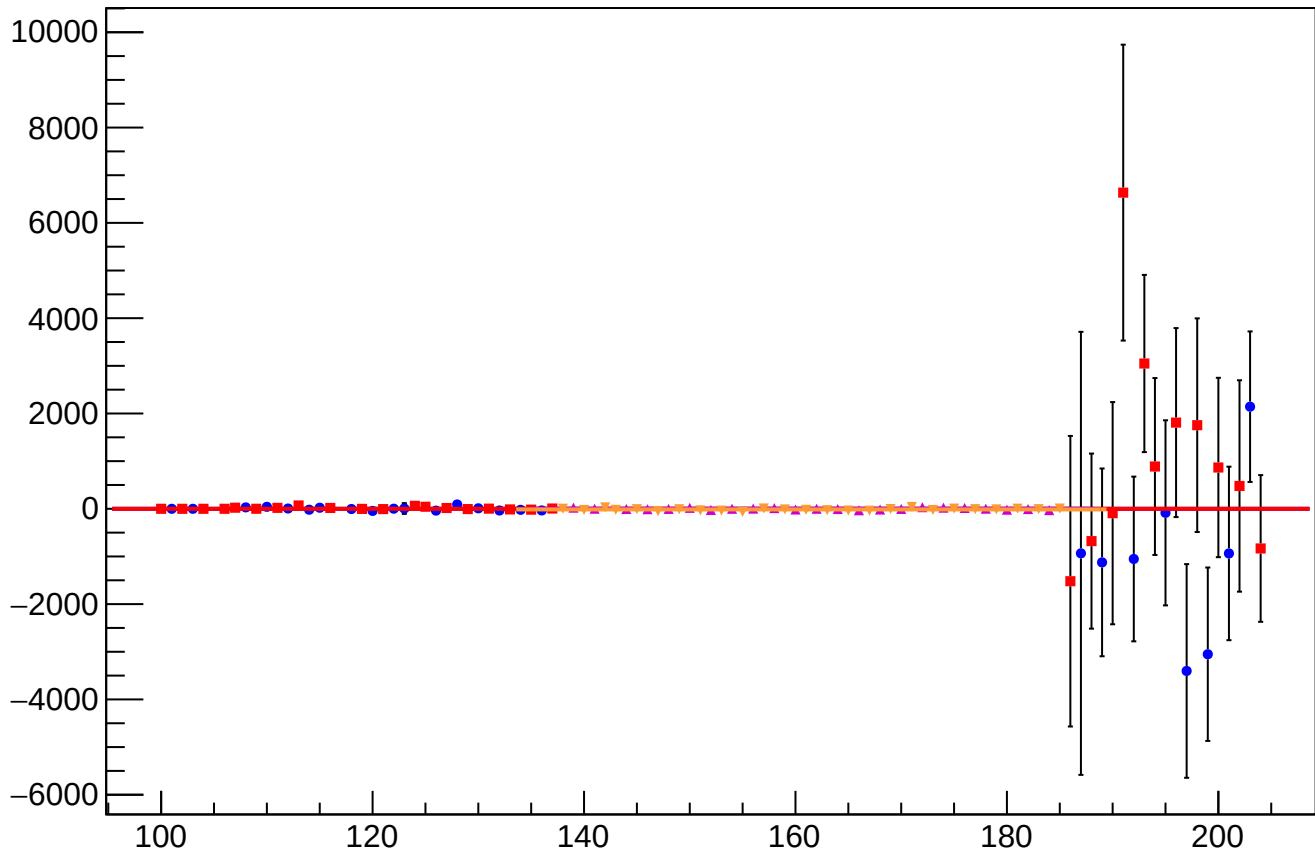
Right: 1755.842+/-0.284 χ^2/NDF : 12838015.5/54

In: 1983.784+/-0.282 χ^2/NDF :8587275.3/47

Out: 1991.843+/-0.271 χ^2/NDF :8922697.7/54

All: 1987.968+/-0.195 χ^2/NDF : 17510397.8/101

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 24.6/24$

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

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 25.4/29$

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

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

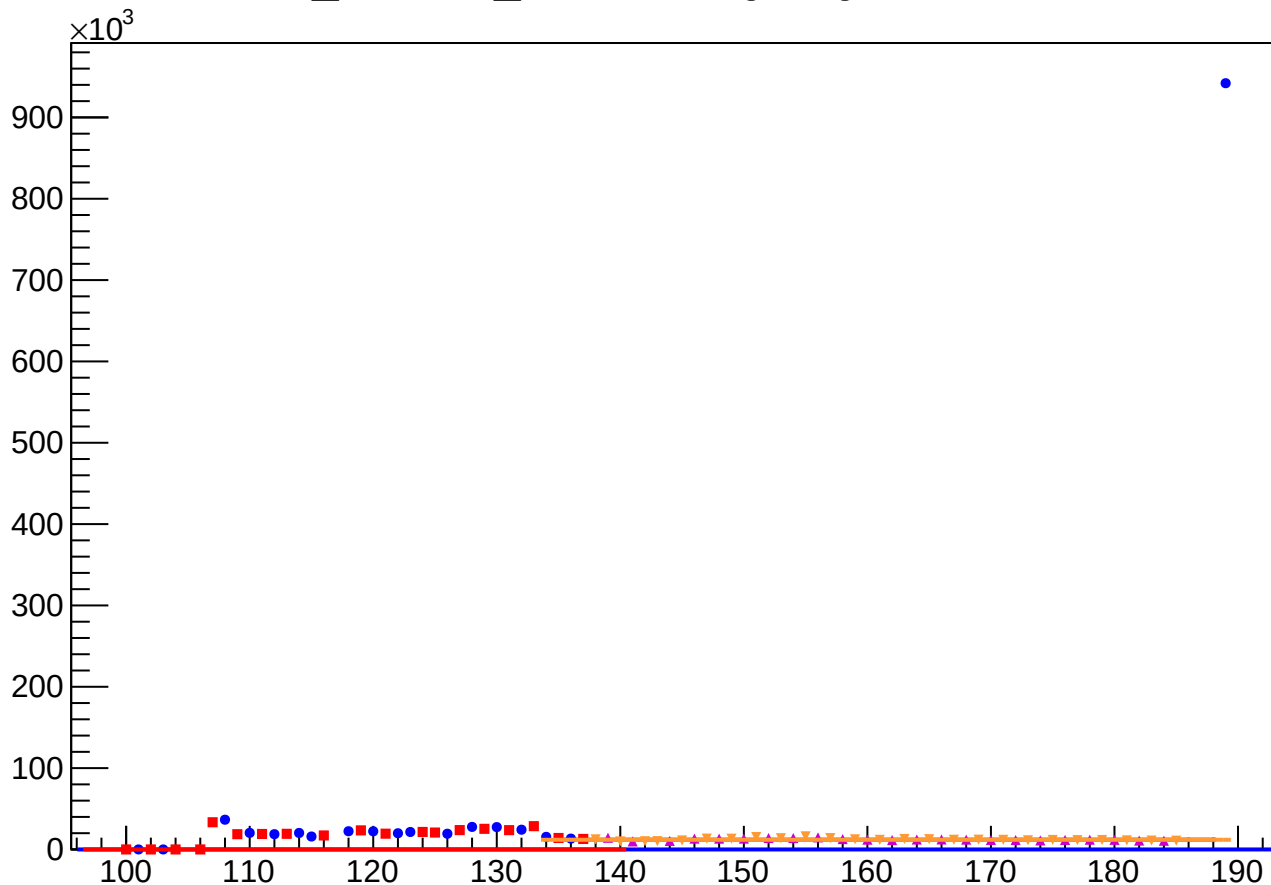
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 50.4/54$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 53.5/47$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 107.2/54$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 161.3/102$

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

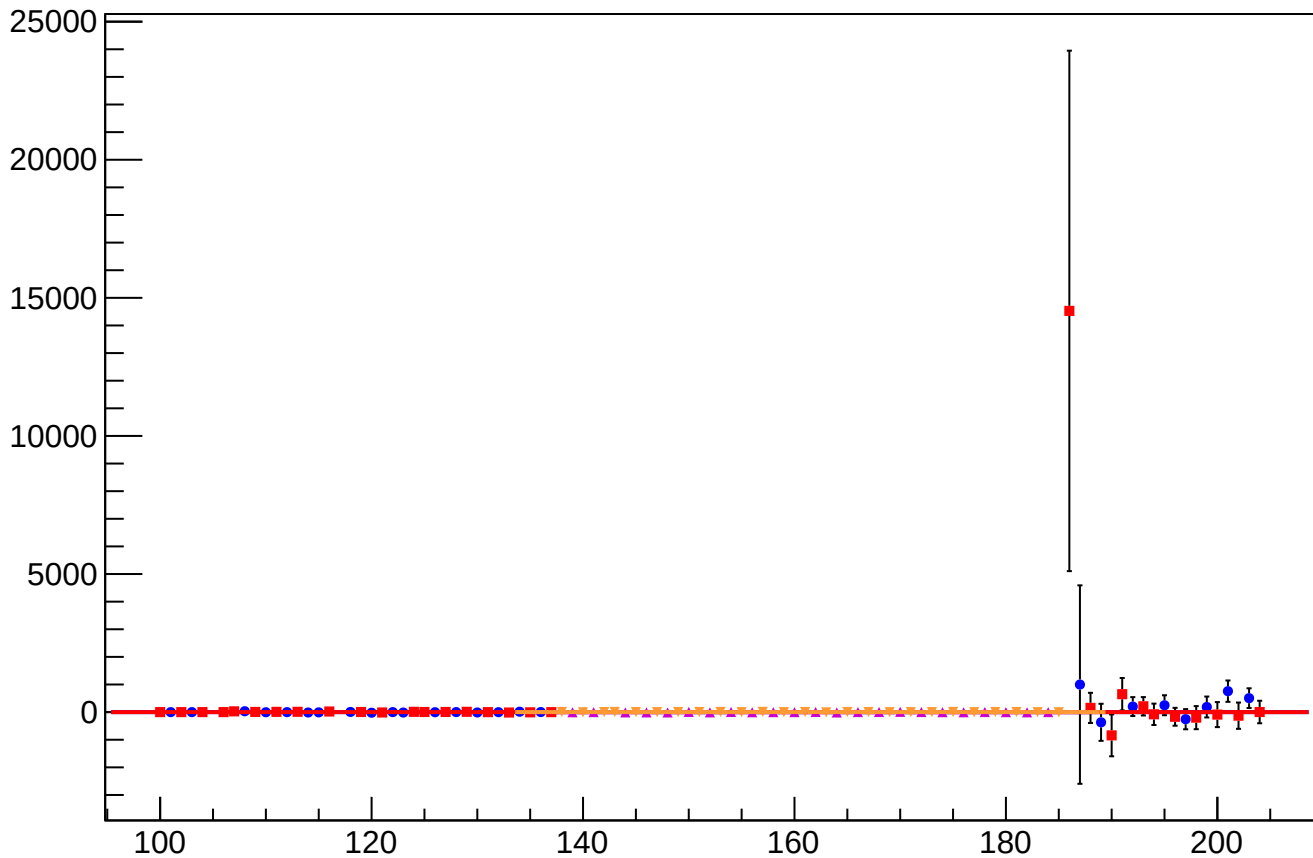
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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: 20.7/24

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

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.7/29

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

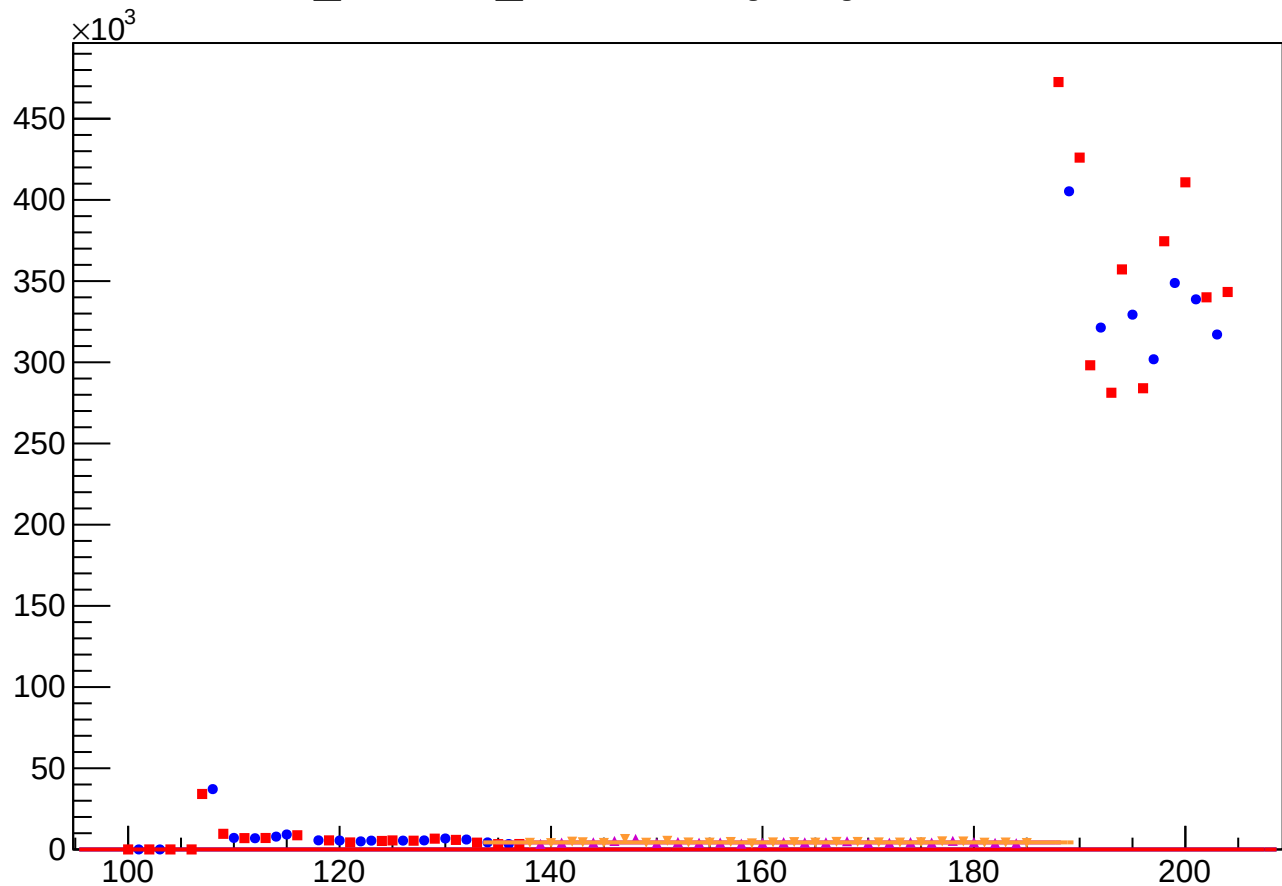
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 46.8/54

In: 0.001 $\pm$ 0.009 χ^2 /NDF:57.1/47

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:45.7/54

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 104.2/102

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.940+/-0.007 χ^2/NDF : 21401736.8/23

Left Out: 4349.005+/-0.723 χ^2/NDF :383895.7/24

Right Out: 9.855+/-0.006 χ^2/NDF : 24102735.1/28

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

Left: 4335.639+/-0.518 χ^2/NDF : 899200.9/47

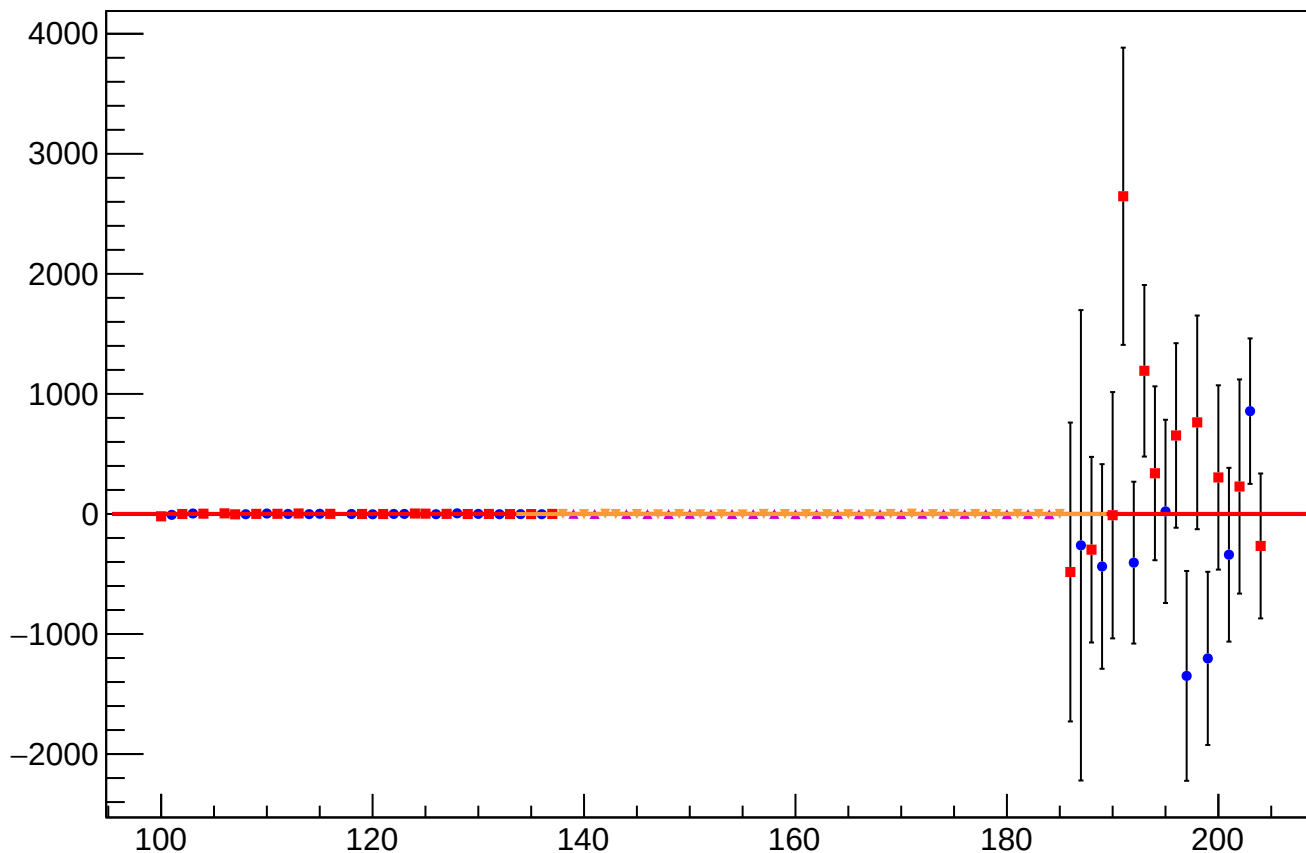
Right: 9.895+/-0.004 χ^2/NDF : 45504561.7/52

In: 10.272+/-0.007 χ^2/NDF :55733465.1/46

Out: 10.166+/-0.006 χ^2/NDF :60531887.4/53

All: 10.216+/-0.004 χ^2/NDF : 116265492.9/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 χ^2/NDF : 30.7/24

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

Right Out: 0.639 ± 0.501 χ^2/NDF : 22.8/29

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

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

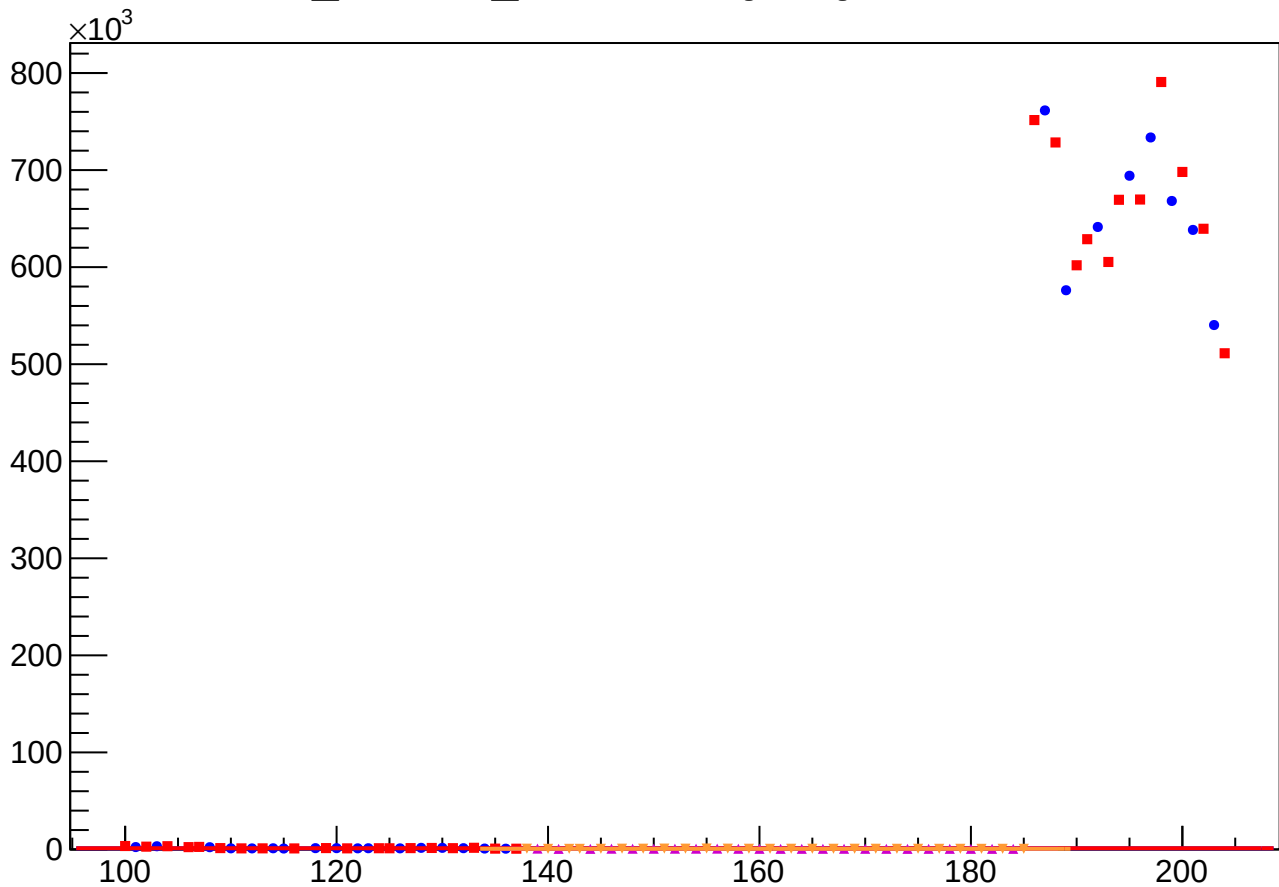
Right: -0.063 ± 0.348 χ^2/NDF : 57.3/54

In: -0.063 ± 0.161 χ^2/NDF : 62.2/47

Out: -0.637 ± 0.156 χ^2/NDF : 88.5/54

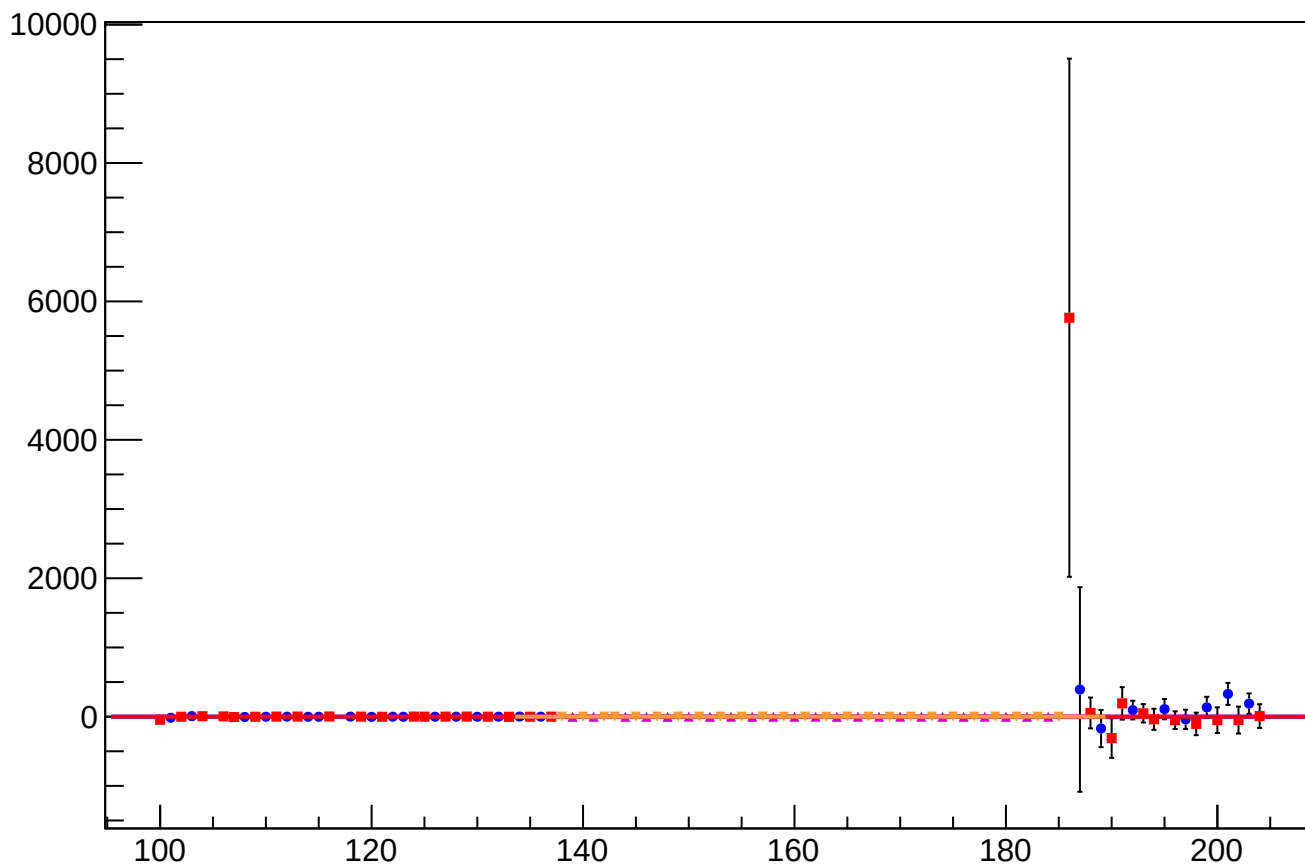
All: -0.359 ± 0.112 χ^2/NDF : 157.3/102

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1169.107 ± 0.342 $\chi^2/\text{NDF}: 12484933.2/24$ Left: 703.867 ± 0.084 $\chi^2/\text{NDF}: 726141.0/47$
 Left Out: 700.984 ± 0.116 $\chi^2/\text{NDF}: 392855.4/24$ Right: 1208.323 ± 0.246 $\chi^2/\text{NDF}: 28082221.6/54$
 Right Out: 1250.577 ± 0.355 $\chi^2/\text{NDF}: 15569911.1/29$ In: 758.303 ± 0.114 $\chi^2/\text{NDF}: 14443695.1/47$
 Left In: 706.971 ± 0.121 $\chi^2/\text{NDF}: 332011.4/22$ Out: 754.422 ± 0.111 $\chi^2/\text{NDF}: 18131398.4/54$
 All: 756.305 ± 0.079 $\chi^2/\text{NDF}: 32575691.6/10$

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.269 χ^2/NDF : 27.4/24

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

Right Out: -0.280 ± 0.264 χ^2/NDF : 25.7/29

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

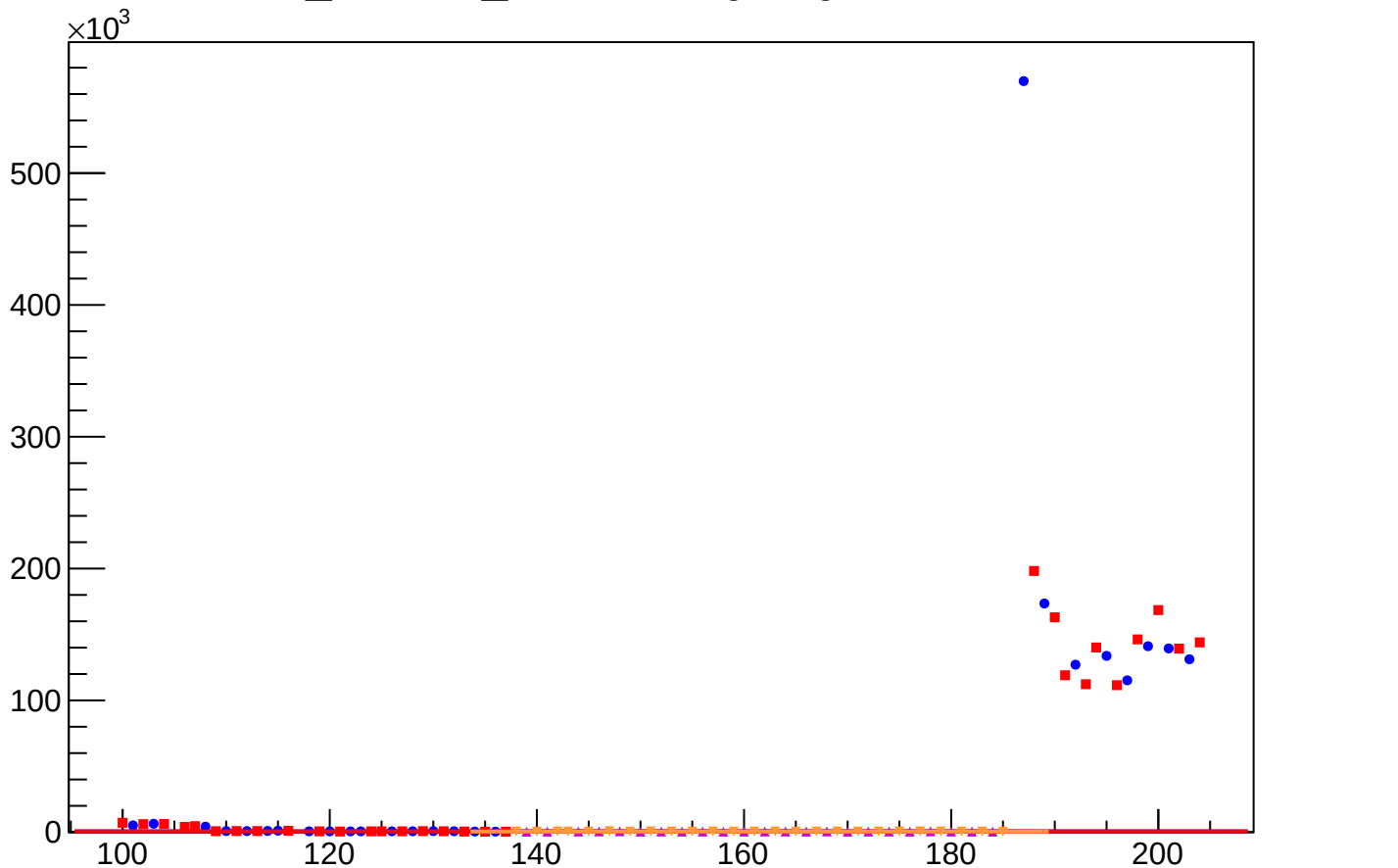
Right: -0.171 ± 0.189 χ^2/NDF : 53.5/54

In: -0.113 ± 0.114 χ^2/NDF : 62.4/47

Out: 0.142 ± 0.111 χ^2/NDF : 46.8/54

All: 0.018 ± 0.080 χ^2/NDF : 111.8/102

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 612.220 $\pm$ 0.190 χ^2/NDF : 13793366.3/24

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

Right Out: 602.055 $\pm$ 0.187 χ^2/NDF : 16557762.5/28

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

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

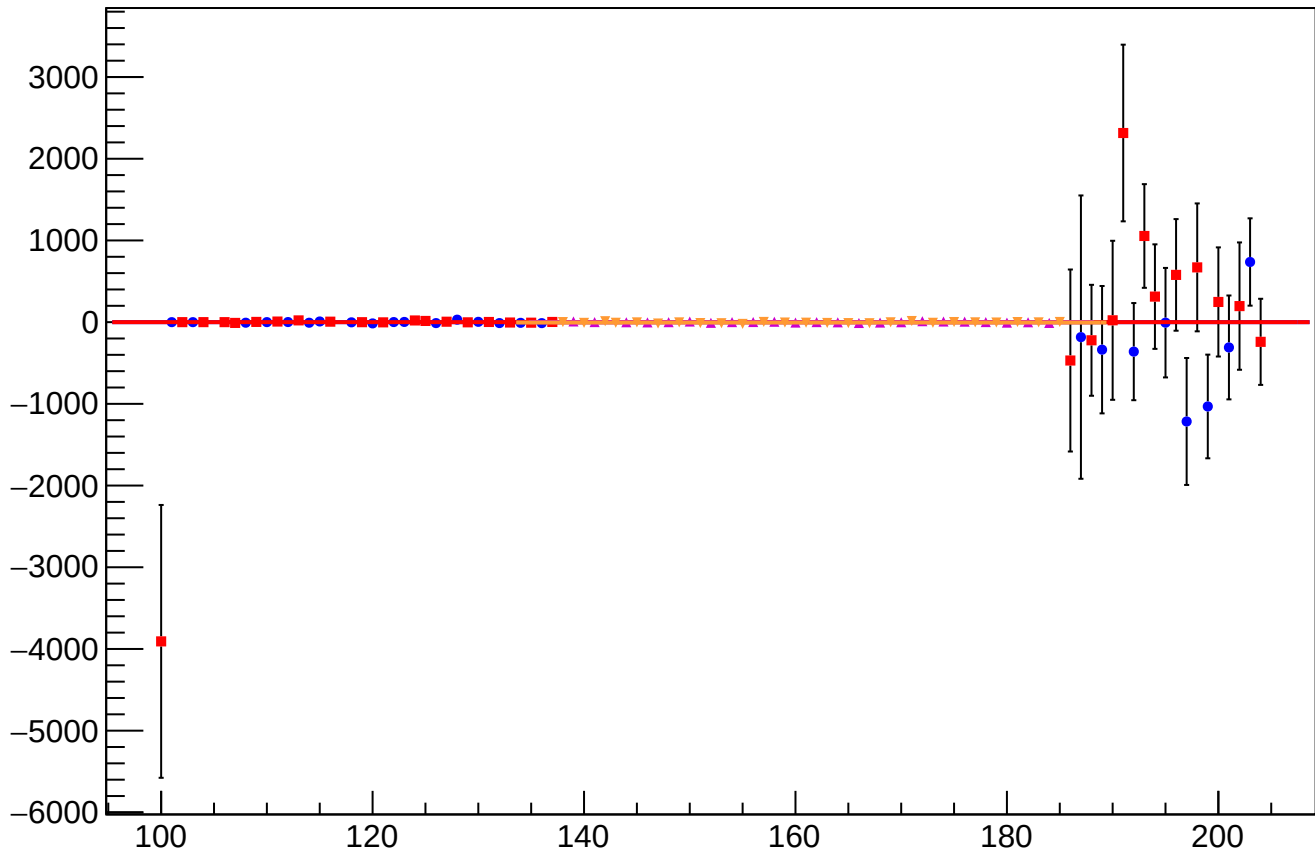
Right: 607.050 $\pm$ 0.133 χ^2/NDF : 30352581.5/53

In: 537.198 $\pm$ 0.081 χ^2/NDF : 14410865.7/47

Out: 536.347 $\pm$ 0.079 χ^2/NDF : 17038228.3/53

All: 536.761 $\pm$ 0.056 χ^2/NDF : 31449150.9/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 23.8/24

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 27.2/29

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

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

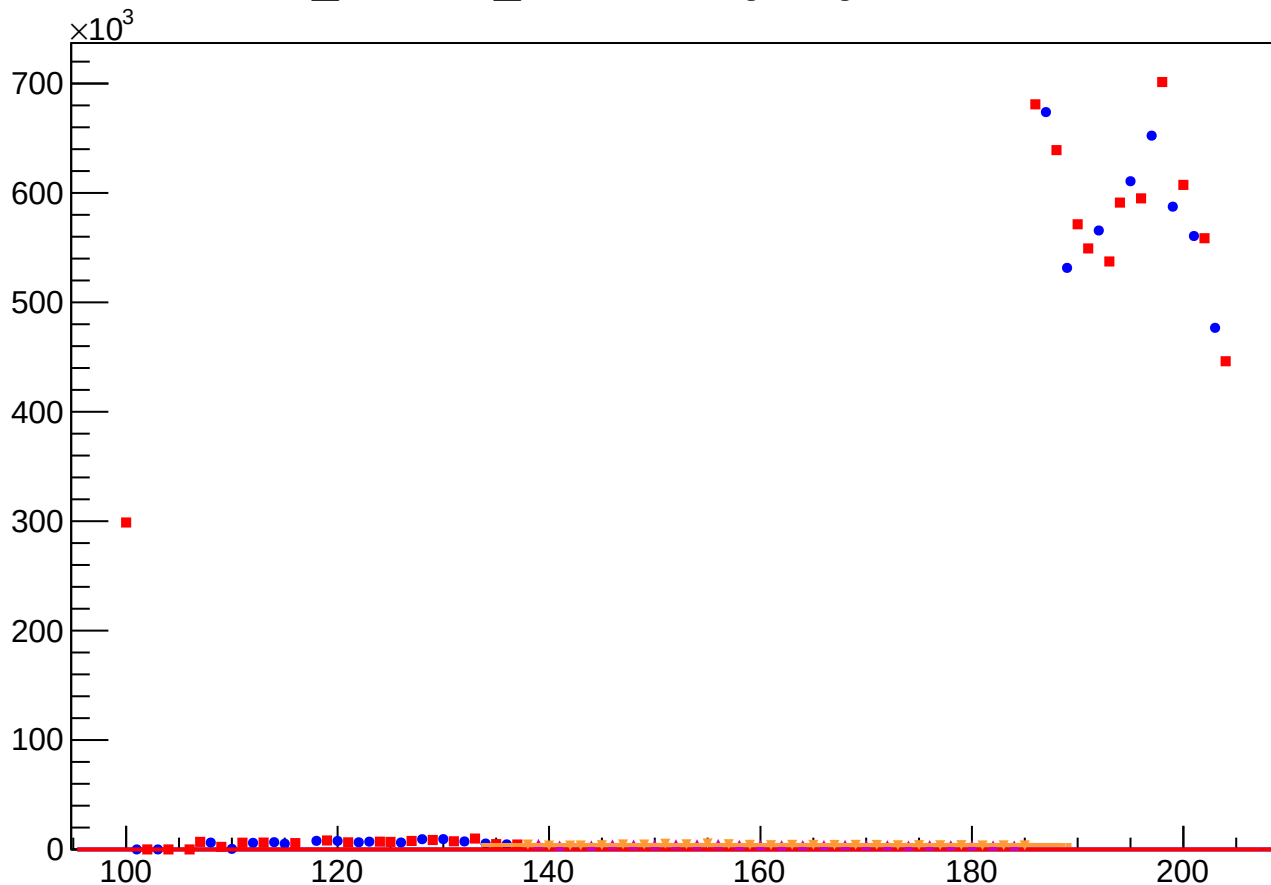
Right: 0.004 ± 0.014 χ^2/NDF : 53.8/54

In: -0.022 ± 0.021 χ^2/NDF : 53.3/47

Out: 0.025 ± 0.020 χ^2/NDF : 107.7/54

All: 0.003 ± 0.014 χ^2/NDF : 163.6/102

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.343+/-0.015 χ^2 /NDF: 21433276.3/24

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

Right Out: 17.272+/-0.014 χ^2 /NDF: 24852181.1/29

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

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

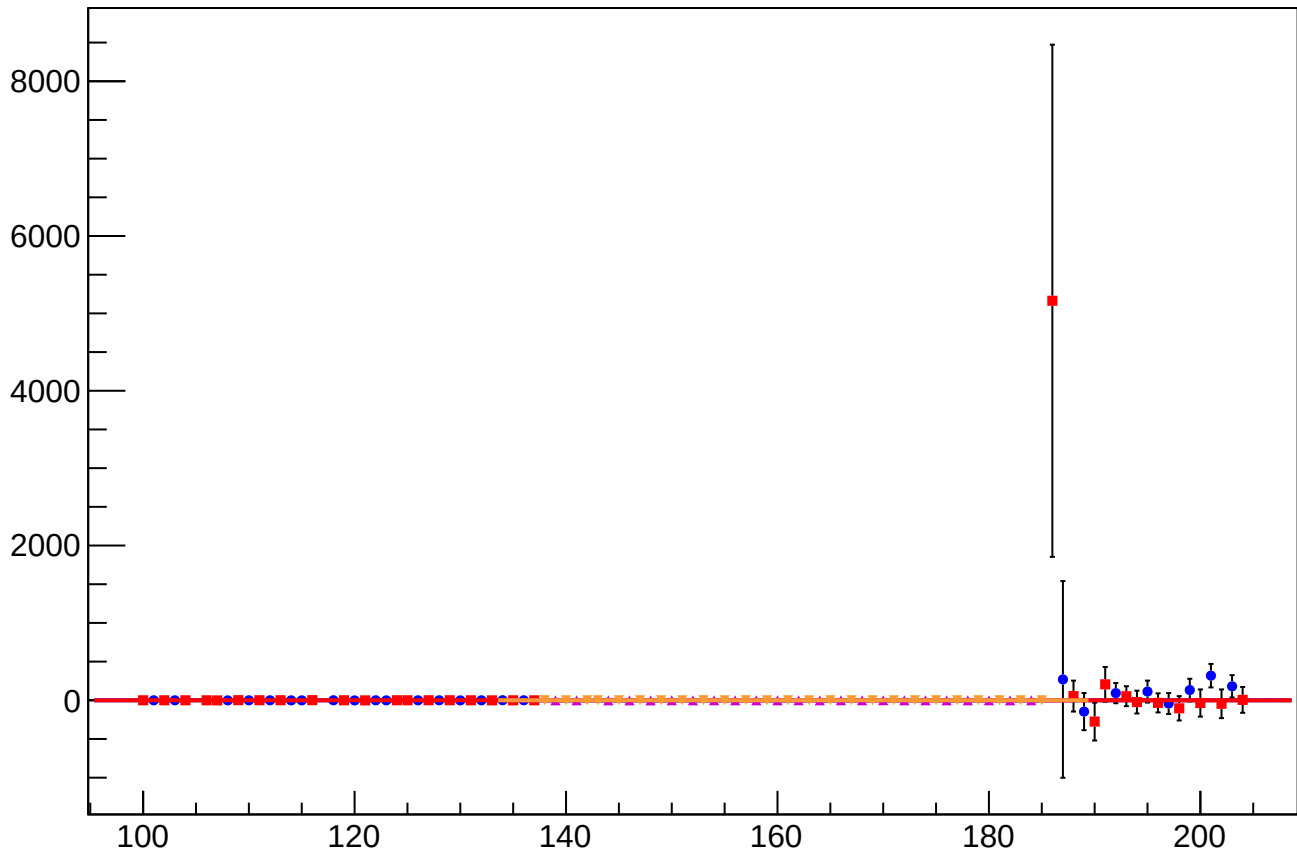
Right: 17.306+/-0.010 χ^2 /NDF: 46285469.7/54

In: 19.135+/-0.015 χ^2 /NDF:55735743.8/47

Out: 19.004+/-0.014 χ^2 /NDF:61205155.8/54

All: 19.066+/-0.010 χ^2 /NDF: 116940941.5/100

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 22.0/24

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.6/29

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

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

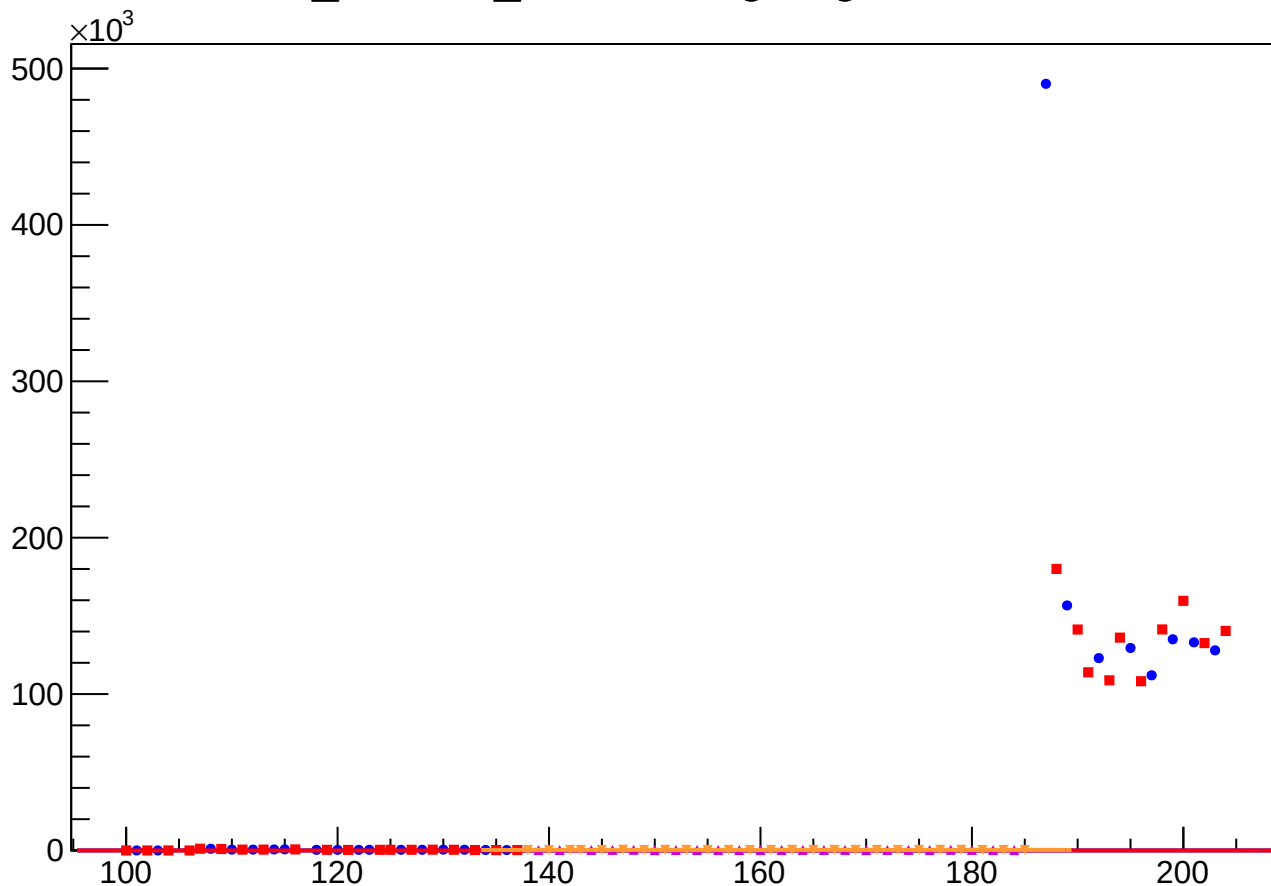
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 45.8/54

In: 0.000 $\pm$ 0.002 χ^2 /NDF:57.7/47

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.7/54

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 102.5/102

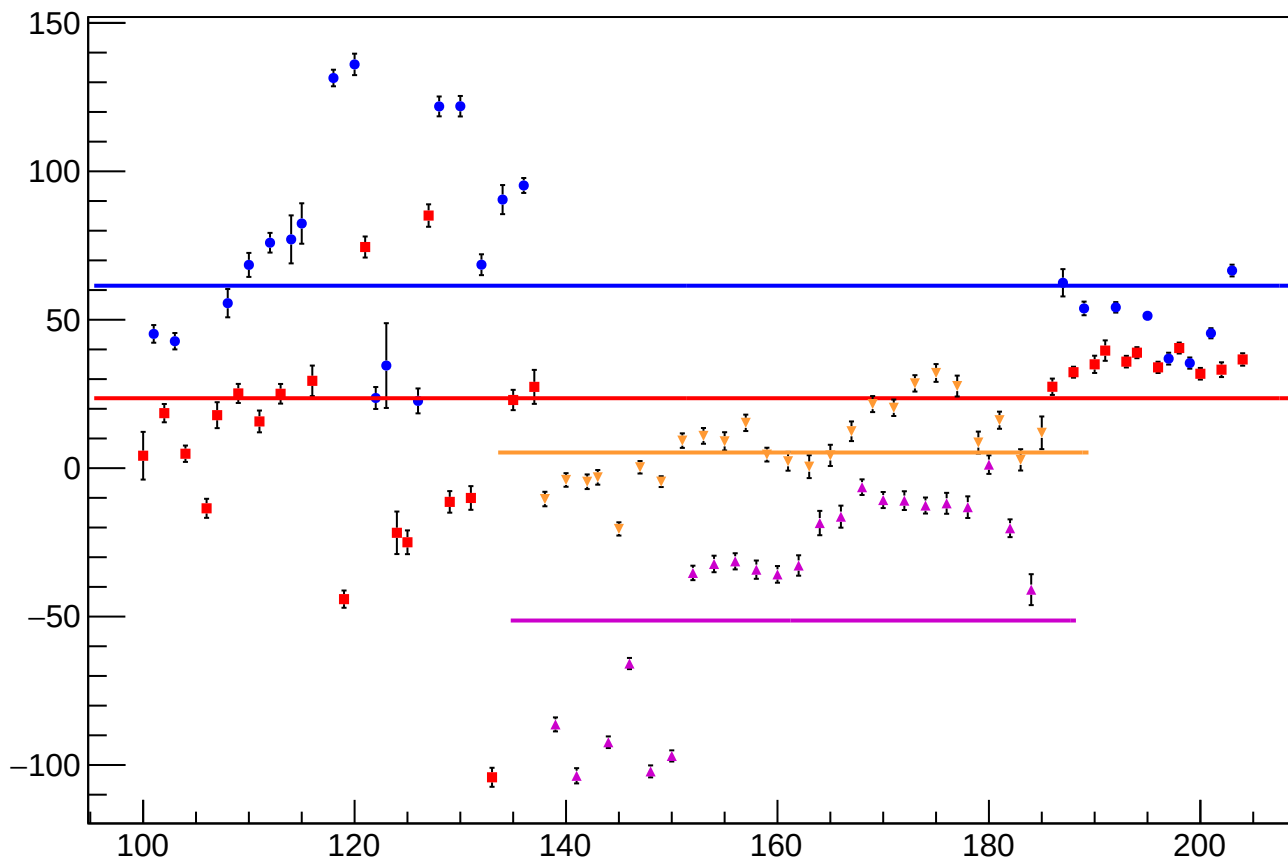
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 21784722.8/24
 Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24
 Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 23871211.2/28
 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: 45656151.3/53
 In: 1.913 $\pm$ 0.001 χ^2 /NDF:55926847.7/47
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:60078706.7/53
 All: 1.925 $\pm$ 0.001 χ^2 /NDF: 116005700.9/101

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 61.468 $\pm$ 0.549 χ^2/NDF : 2714.4/24

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

Right Out: 23.561 $\pm$ 0.513 χ^2/NDF : 3505.7/29

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

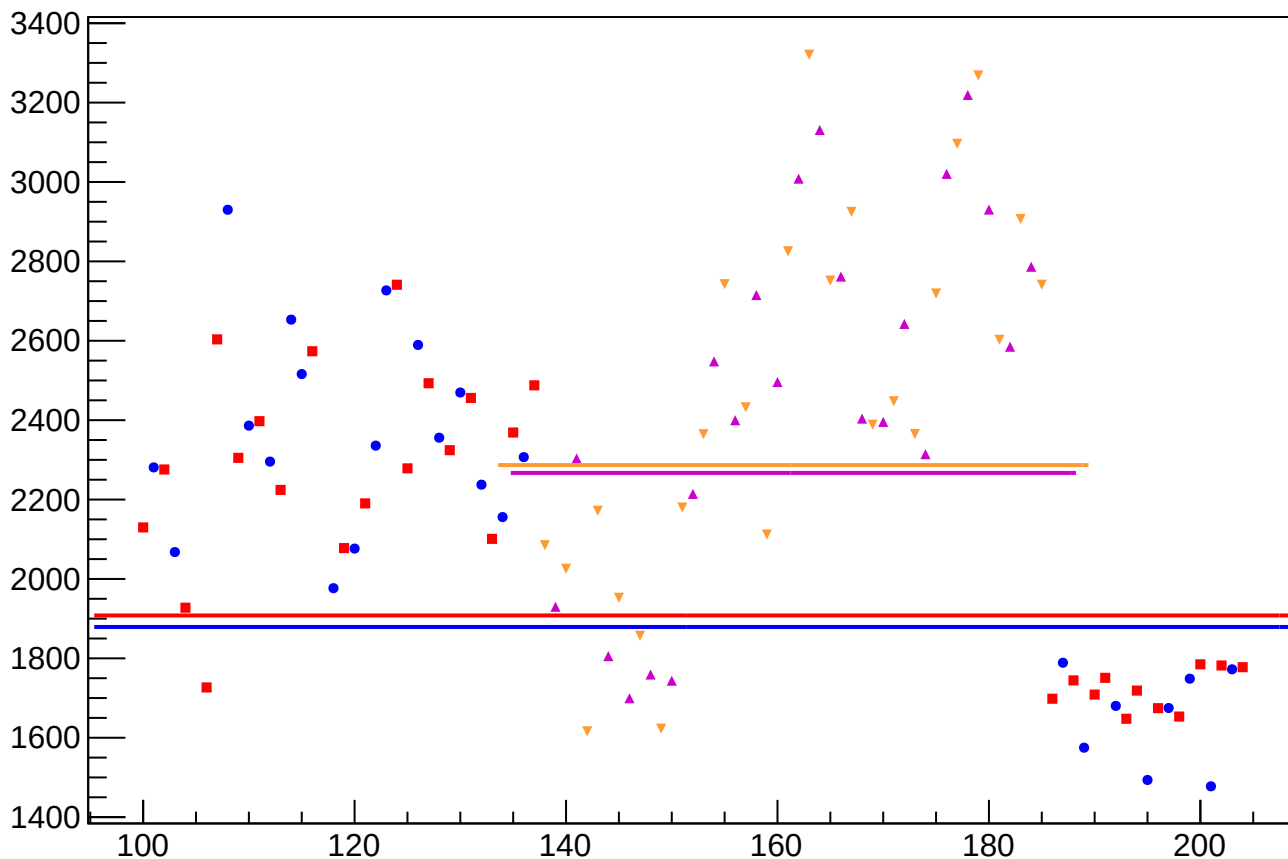
Right: 41.217 $\pm$ 0.375 χ^2/NDF : 8766.2/54

In: 6.013 $\pm$ 0.392 χ^2/NDF : 27718.3/47

Out: 14.963 $\pm$ 0.373 χ^2/NDF : 4660.0/54

All: 10.702 $\pm$ 0.270 χ^2/NDF : 32652.2/102

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1879.037 $\pm$ 0.388 χ^2/NDF : 844162.6/24

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

Right Out: 1908.056 $\pm$ 0.363 χ^2/NDF : 630792.7/29

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

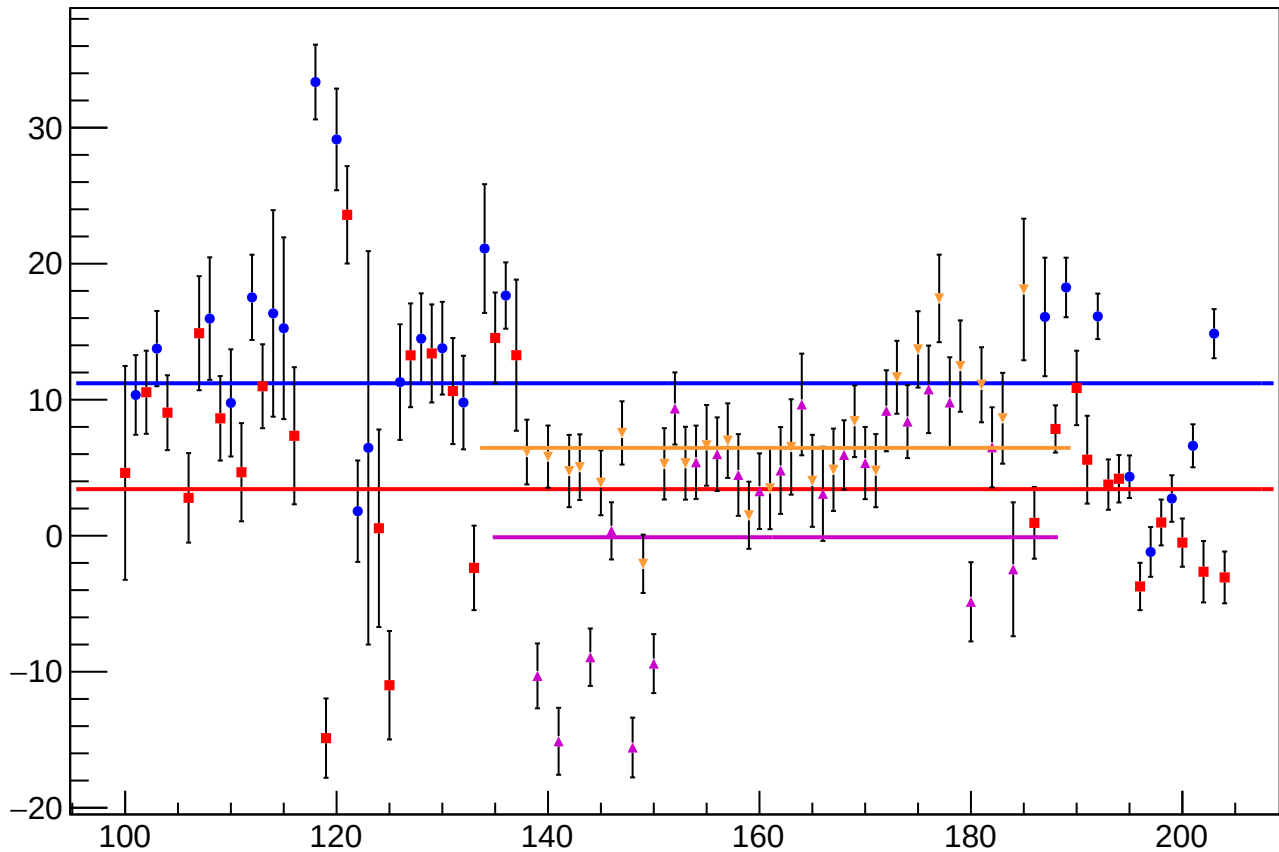
Right: 1894.540 $\pm$ 0.265 χ^2/NDF : 1477939.5/54

In: 2069.825 $\pm$ 0.277 χ^2/NDF :2648634.2/47

Out: 2086.193 $\pm$ 0.264 χ^2/NDF :2504712.2/54

All: 2078.401 $\pm$ 0.191 χ^2/NDF : 5155178.0/100

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.209 ± 0.521 $\chi^2/\text{NDF}: 237.2/24$

Left Out: 6.458 ± 0.548 $\chi^2/\text{NDF}: 58.7/24$

Right Out: 3.425 ± 0.485 $\chi^2/\text{NDF}: 204.7/29$

Left In: -0.110 ± 0.565 $\chi^2/\text{NDF}: 234.6/22$

Left: 3.278 ± 0.393 $\chi^2/\text{NDF}: 363.0/47$

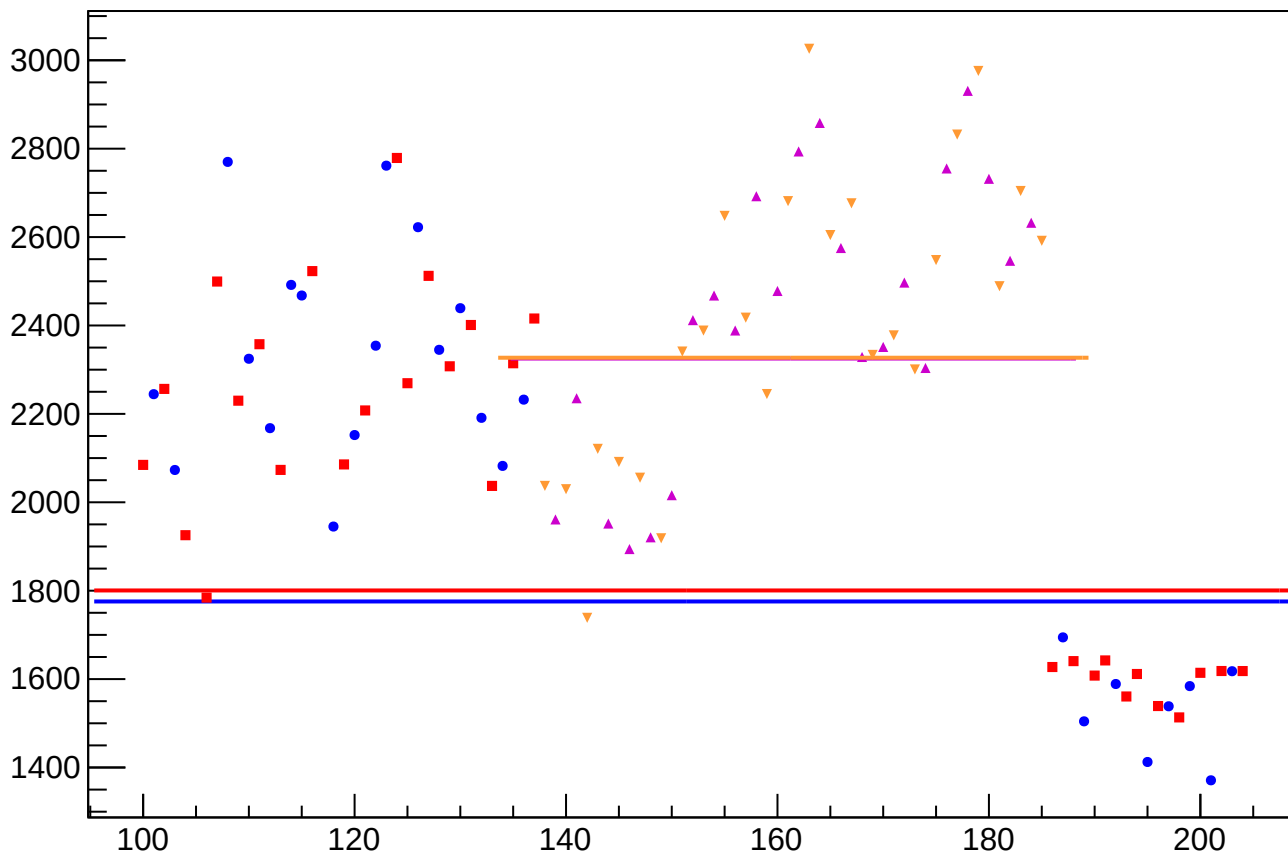
Right: 7.044 ± 0.355 $\chi^2/\text{NDF}: 561.4/54$

In: 6.011 ± 0.383 $\chi^2/\text{NDF}: 688.7/47$

Out: 4.760 ± 0.363 $\chi^2/\text{NDF}: 280.6/54$

All: 5.352 ± 0.264 $\chi^2/\text{NDF}: 974.9/102$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1775.621 ± 0.368 $\chi^2/\text{NDF}: 1057033.9/24$

Left Out: 2327.044 ± 0.387 $\chi^2/\text{NDF}: 646706.7/24$

Right Out: 1800.531 ± 0.343 $\chi^2/\text{NDF}: 852670.7/29$

Left In: 2325.175 ± 0.400 $\chi^2/\text{NDF}: 610729.2/22$

Left: 2326.139 ± 0.278 $\chi^2/\text{NDF}: 1257447.2/47$

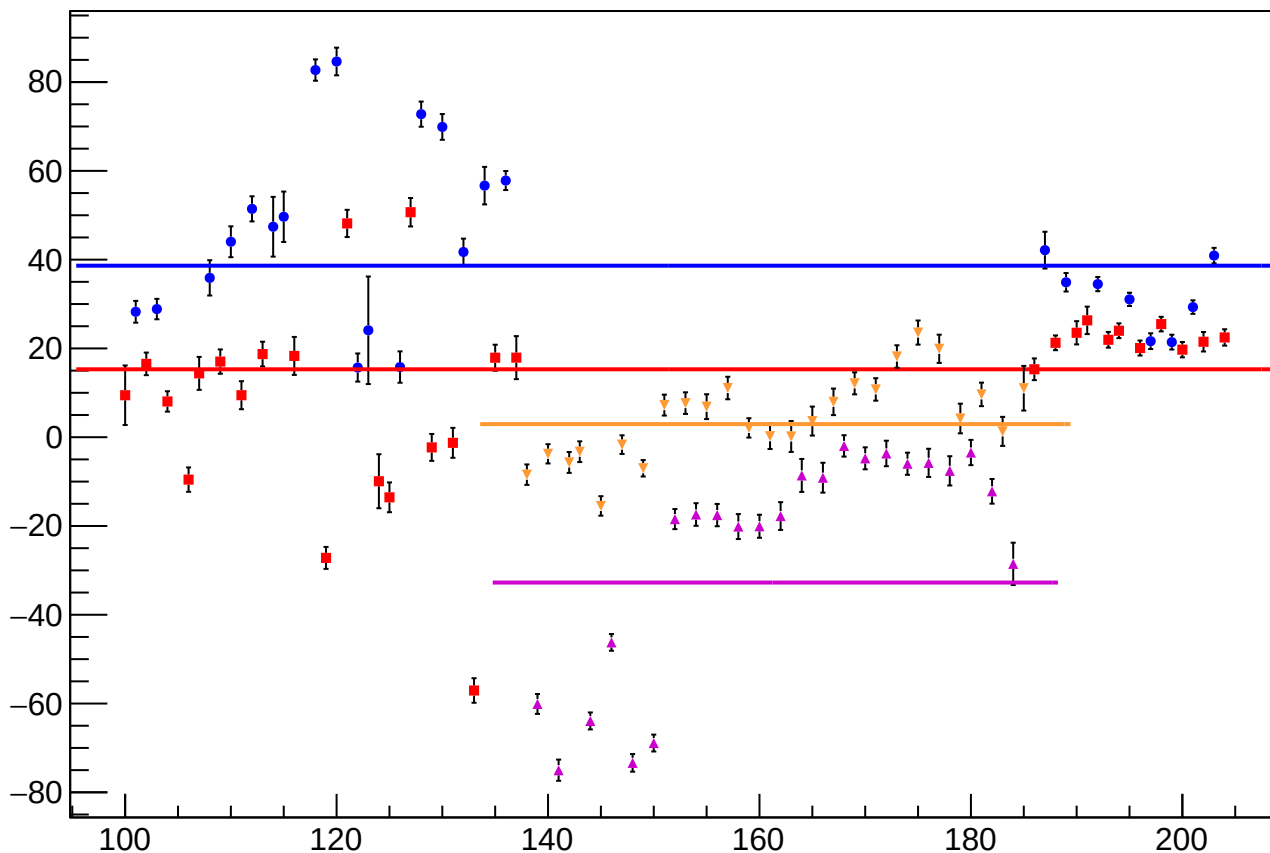
Right: 1788.948 ± 0.251 $\chi^2/\text{NDF}: 1912152.7/54$

In: 2027.984 ± 0.271 $\chi^2/\text{NDF}: 2690444.4/47$

Out: 2032.267 ± 0.257 $\chi^2/\text{NDF}: 2534685.7/54$

All: 2030.239 ± 0.186 $\chi^2/\text{NDF}: 5225261.8/10$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.637 $\pm$ 0.481 χ^2/NDF : 1348.7/24

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

Right Out: 15.298 $\pm$ 0.448 χ^2/NDF : 1618.5/29

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

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

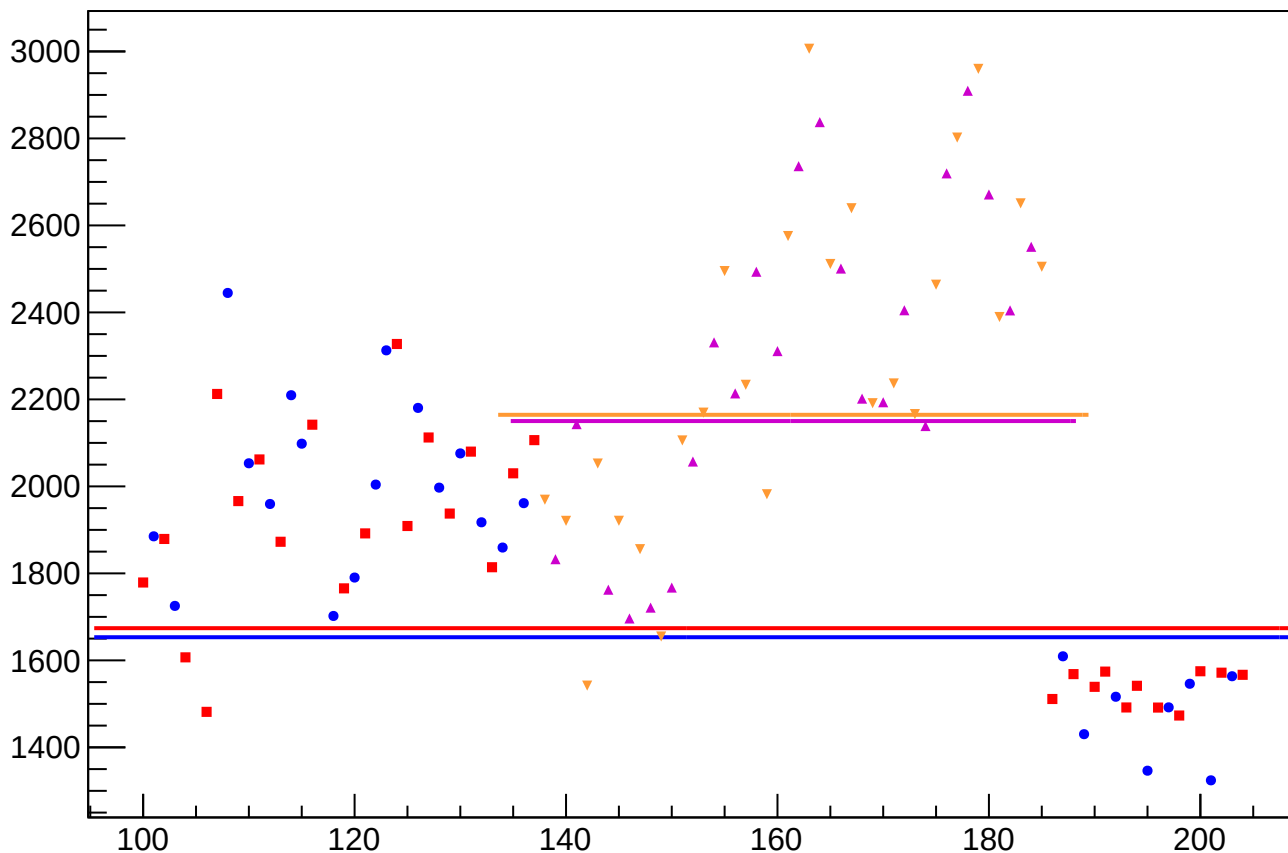
Right: 26.157 $\pm$ 0.328 χ^2/NDF : 4228.1/54

In: 6.166 $\pm$ 0.355 χ^2/NDF :14015.6/47

Out: 9.939 $\pm$ 0.337 χ^2/NDF :2285.5/54

All: 8.148 $\pm$ 0.244 χ^2/NDF : 16360.5/102

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1653.193 $\pm$ 0.340 χ^2/NDF : 632737.5/24

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

Right Out: 1674.001 $\pm$ 0.317 χ^2/NDF : 461047.2/29

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

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

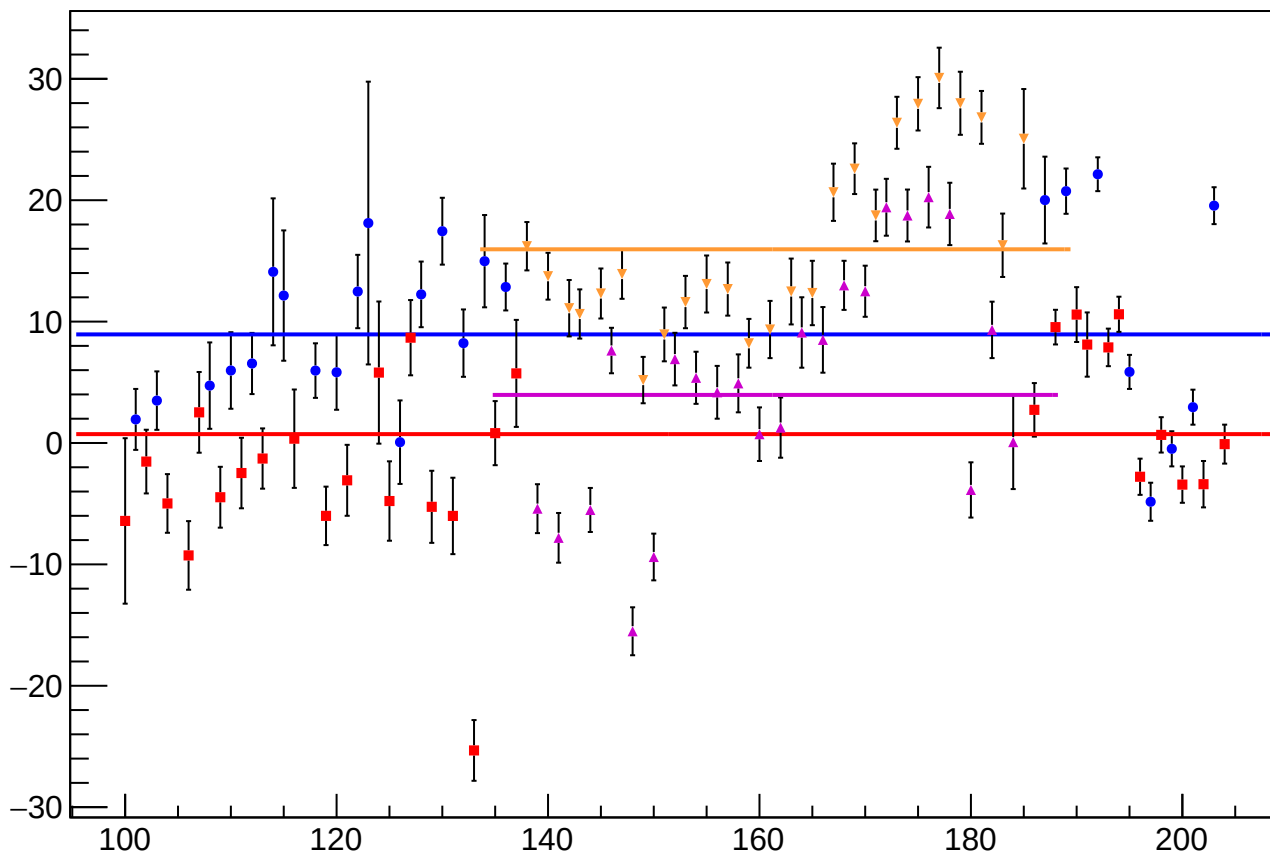
Right: 1664.320 $\pm$ 0.232 χ^2/NDF : 1095789.3/54

In: 1879.276 $\pm$ 0.251 χ^2/NDF :2517430.7/47

Out: 1886.937 $\pm$ 0.238 χ^2/NDF :2466080.5/54

All: 1883.301 $\pm$ 0.173 χ^2/NDF : 4984001.0/10

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.946 ± 0.440 χ^2/NDF : 376.2/24

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

Right Out: 0.730 ± 0.405 χ^2/NDF : 316.3/29

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

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

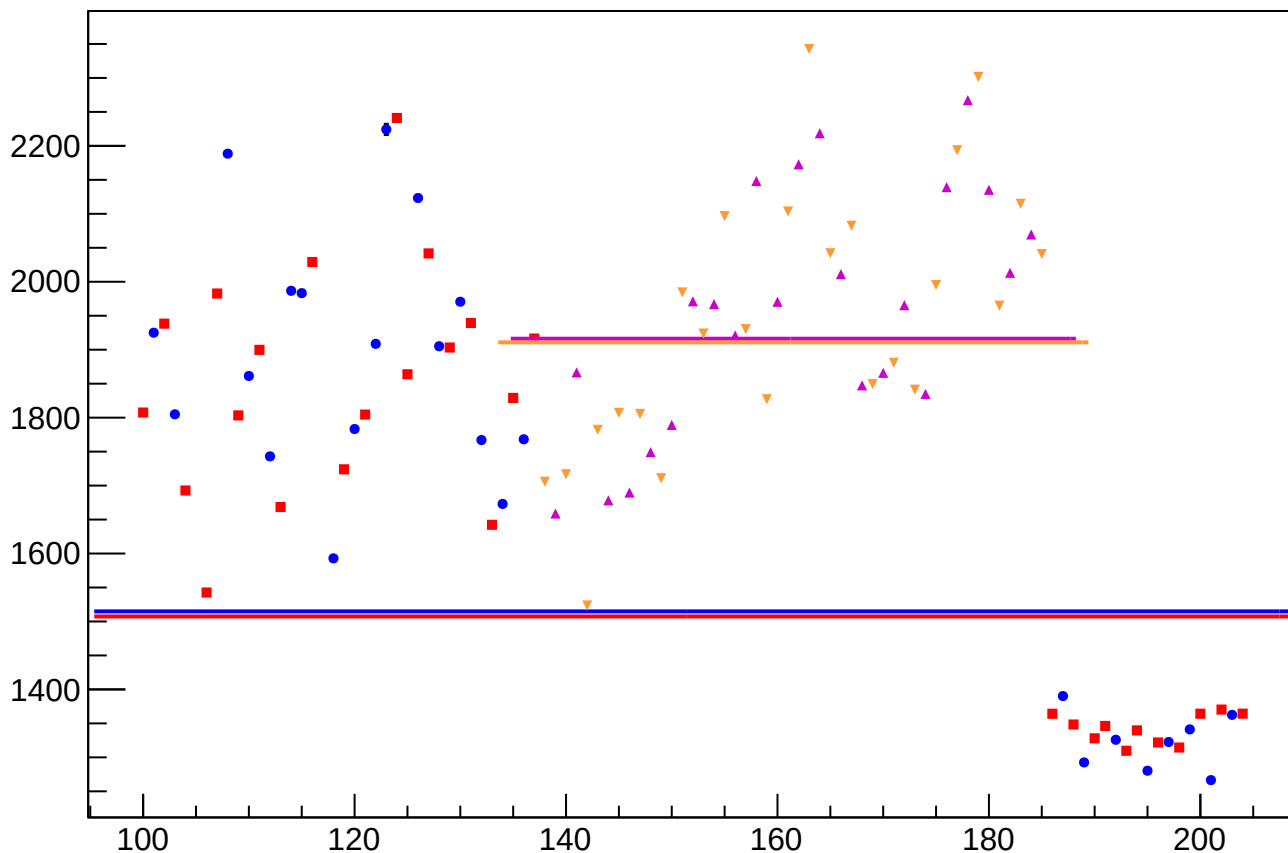
Right: 4.494 ± 0.298 χ^2/NDF : 881.0/54

In: 6.577 ± 0.319 χ^2/NDF : 902.0/47

Out: 7.586 ± 0.300 χ^2/NDF : 1198.1/54

All: 7.112 ± 0.219 χ^2/NDF : 2105.4/102

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1514.852 $\pm$ 0.311 χ^2 /NDF: 756170.6/24

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

Right Out: 1507.383 $\pm$ 0.286 χ^2 /NDF: 717375.4/29

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

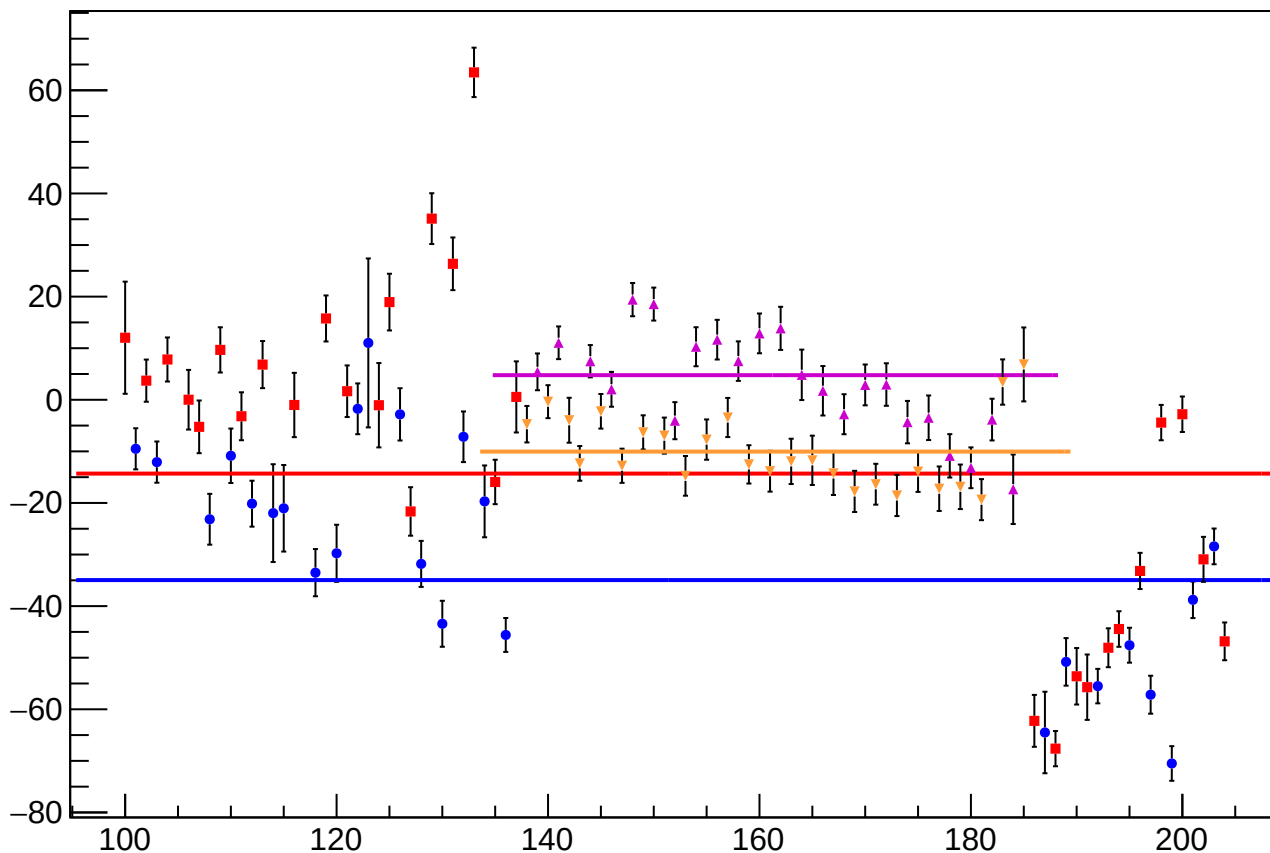
Right: 1510.805 $\pm$ 0.211 χ^2 /NDF: 1473857.8/54

In: 1705.514 $\pm$ 0.226 χ^2 /NDF: 1819716.2/47

Out: 1689.060 $\pm$ 0.212 χ^2 /NDF: 1940479.9/54

All: 1696.788 $\pm$ 0.155 χ^2 /NDF: 3763017.5/100

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -34.954 ± 0.889 χ^2/NDF : 492.7/24

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

Right Out: -14.307 ± 0.827 χ^2/NDF : 1380.1/29

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

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

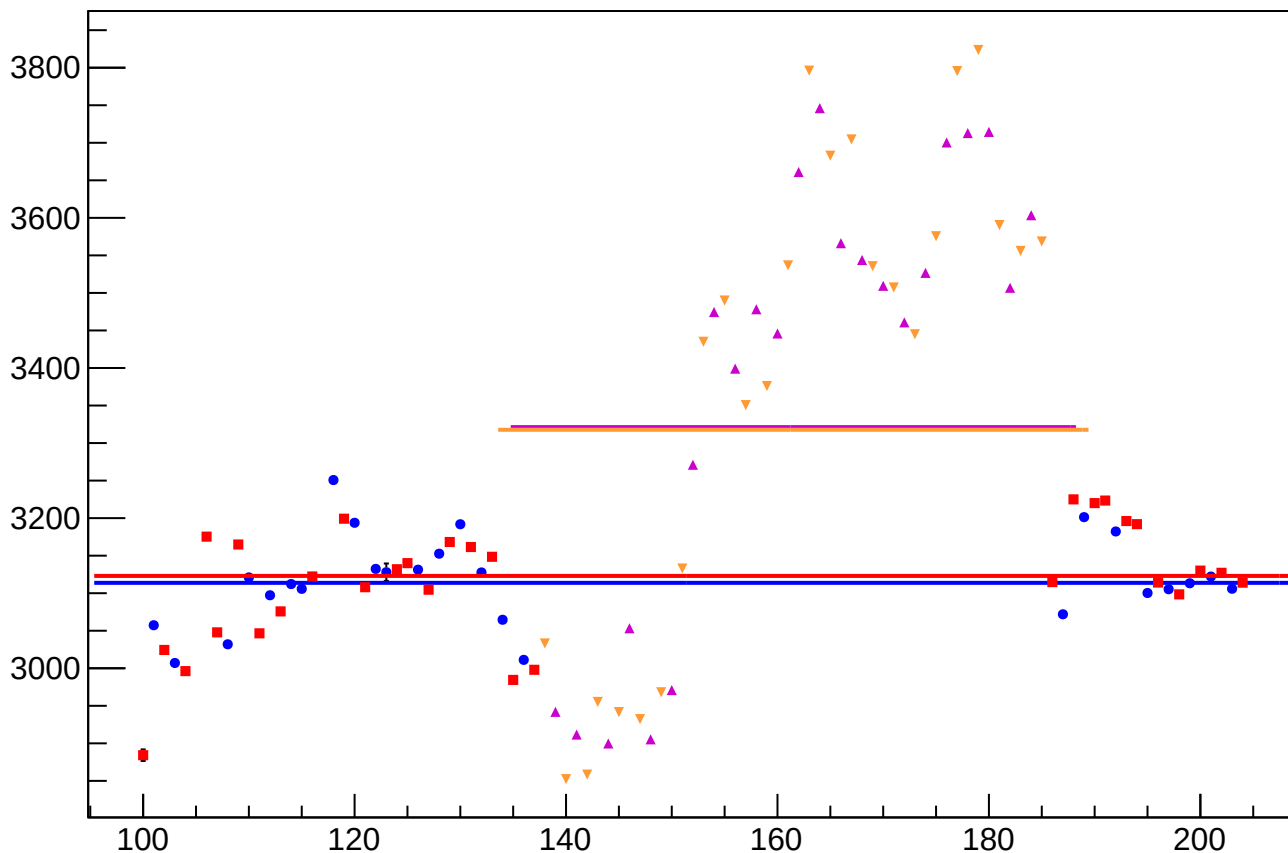
Right: -23.884 ± 0.606 χ^2/NDF : 2161.7/54

In: -13.004 ± 0.595 χ^2/NDF : 1723.4/47

Out: -12.039 ± 0.566 χ^2/NDF : 1461.4/54

All: -12.498 ± 0.410 χ^2/NDF : 3186.2/102

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3113.811 $\pm$ 0.629 χ^2 /NDF: 9189.3/24

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

Right Out: 3123.043 $\pm$ 0.585 χ^2 /NDF: 13757.7/29

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

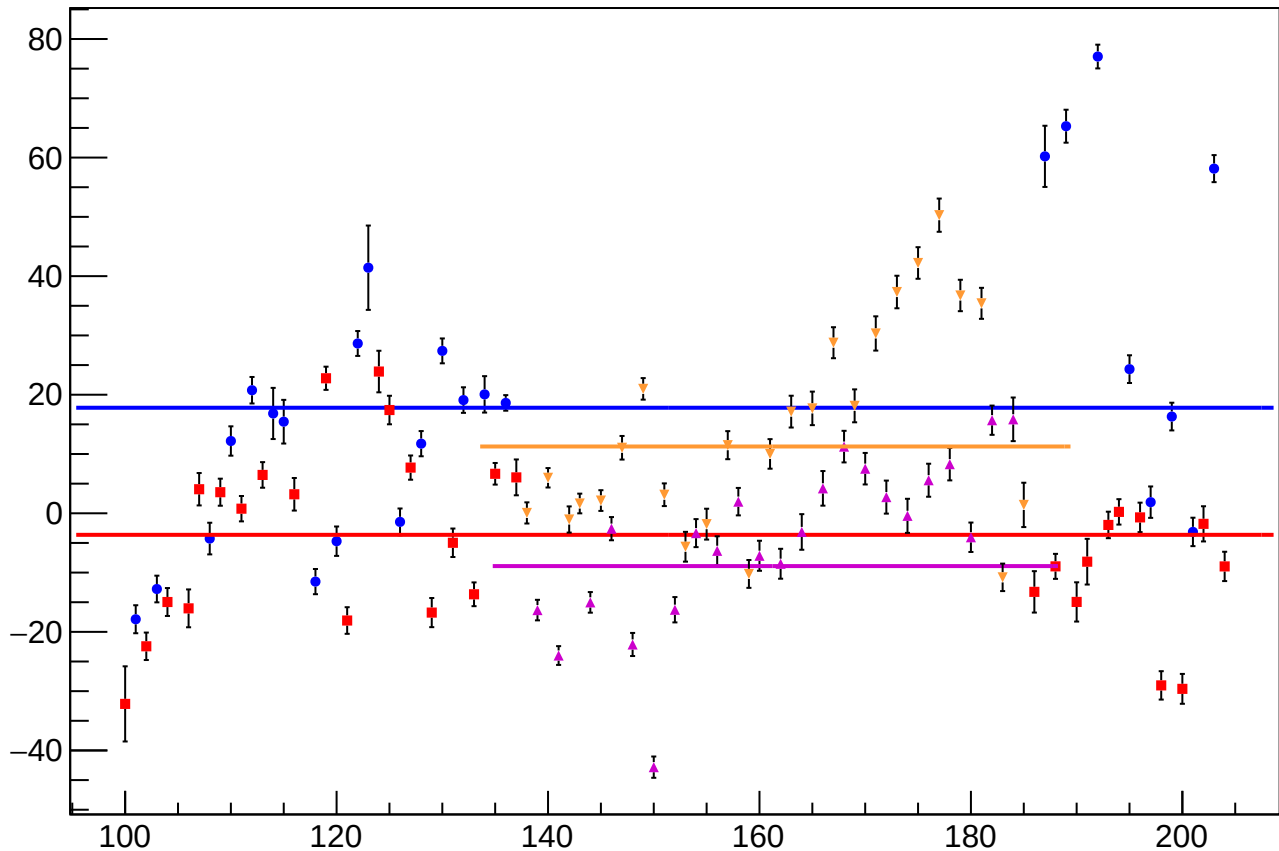
Right: 3118.761 $\pm$ 0.428 χ^2 /NDF: 23062.5/54

In: 3228.435 $\pm$ 0.421 χ^2 /NDF:353642.9/47

Out: 3226.550 $\pm$ 0.400 χ^2 /NDF:409511.9/54

All: 3227.445 $\pm$ 0.290 χ^2 /NDF: 763165.3/102

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.803 $\pm$ 0.473 χ^2 /NDF: 2568.8/24

Left Out: 11.268 $\pm$ 0.454 χ^2 /NDF:1141.8/24

Right Out: -3.633 $\pm$ 0.448 χ^2 /NDF: 919.4/29

Left In: -8.905 $\pm$ 0.478 χ^2 /NDF:936.3/22

Left: 1.682 $\pm$ 0.329 χ^2 /NDF: 3014.7/47

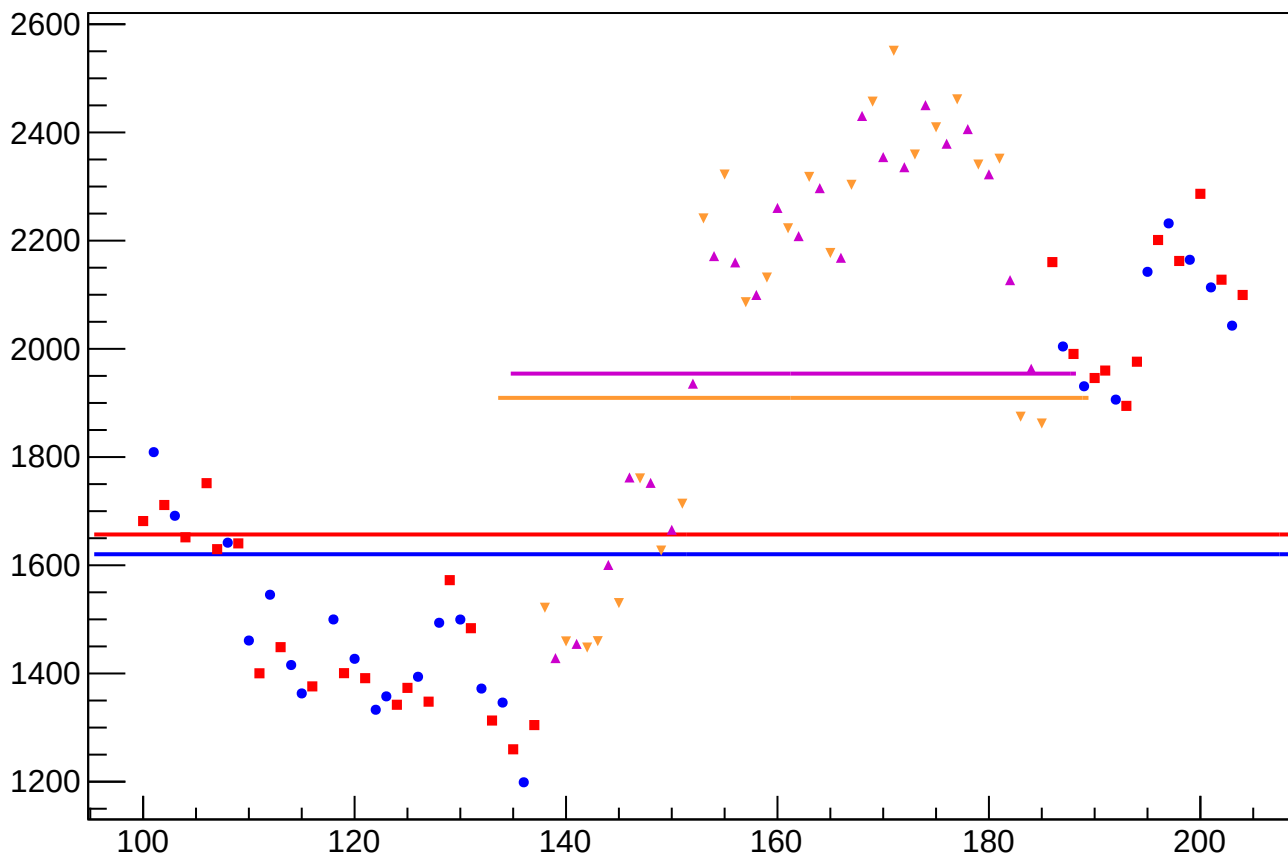
Right: 6.505 $\pm$ 0.325 χ^2 /NDF: 4571.9/54

In: 4.583 $\pm$ 0.336 χ^2 /NDF:5084.9/47

Out: 3.710 $\pm$ 0.319 χ^2 /NDF:2606.7/54

All: 4.124 $\pm$ 0.231 χ^2 /NDF: 7695.2/102

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1620.376 $\pm$ 0.334 χ^2 /NDF: 925408.8/24

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

Right Out: 1656.921 $\pm$ 0.317 χ^2 /NDF: 1027641.6/29

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

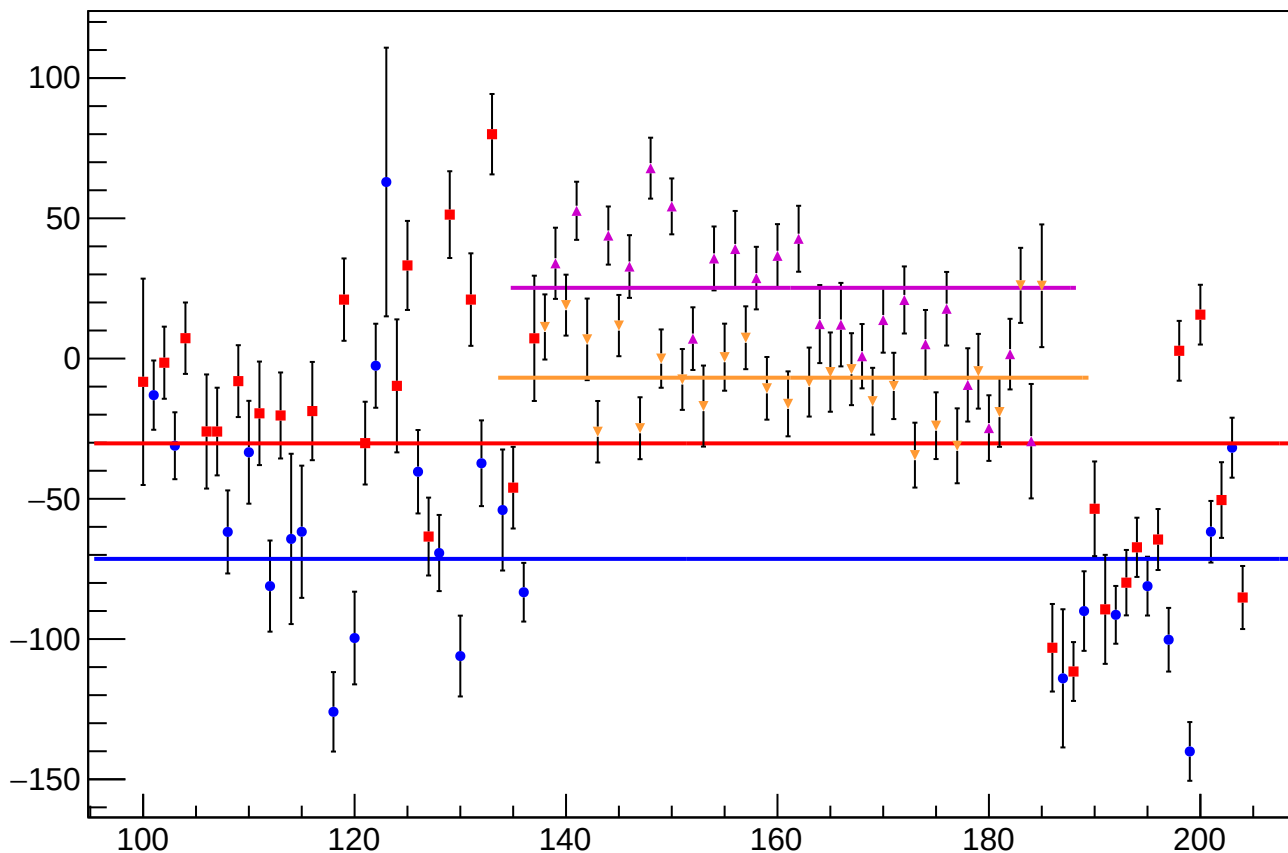
Right: 1639.637 $\pm$ 0.230 χ^2 /NDF: 1959349.6/54

In: 1785.629 $\pm$ 0.238 χ^2 /NDF:2463963.0/47

Out: 1781.322 $\pm$ 0.226 χ^2 /NDF:2739366.4/54

All: 1783.364 $\pm$ 0.164 χ^2 /NDF: 5203502.3/100

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -71.419 ± 2.766 χ^2/NDF : 176.2/24

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

Right Out: -30.237 ± 2.575 χ^2/NDF : 341.3/29

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

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

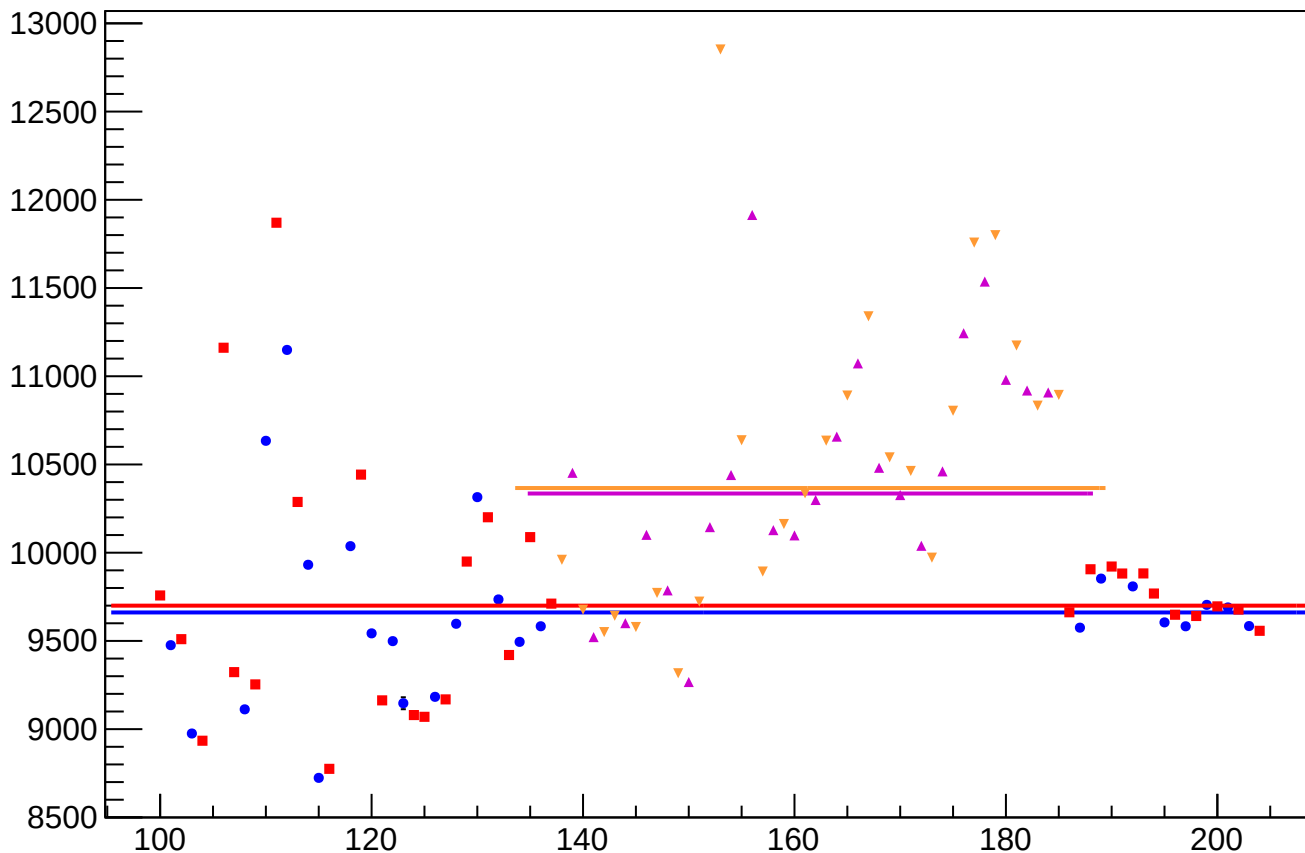
Right: -49.363 ± 1.885 χ^2/NDF : 636.3/54

In: -17.981 ± 1.849 χ^2/NDF : 940.5/47

Out: -17.816 ± 1.765 χ^2/NDF : 427.5/54

All: -17.894 ± 1.277 χ^2/NDF : 1368.1/102

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9661.360+/-1.956 χ^2/NDF : 45132.0/24

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

Right Out: 9699.919+/-1.821 χ^2/NDF : 79833.1/29

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

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

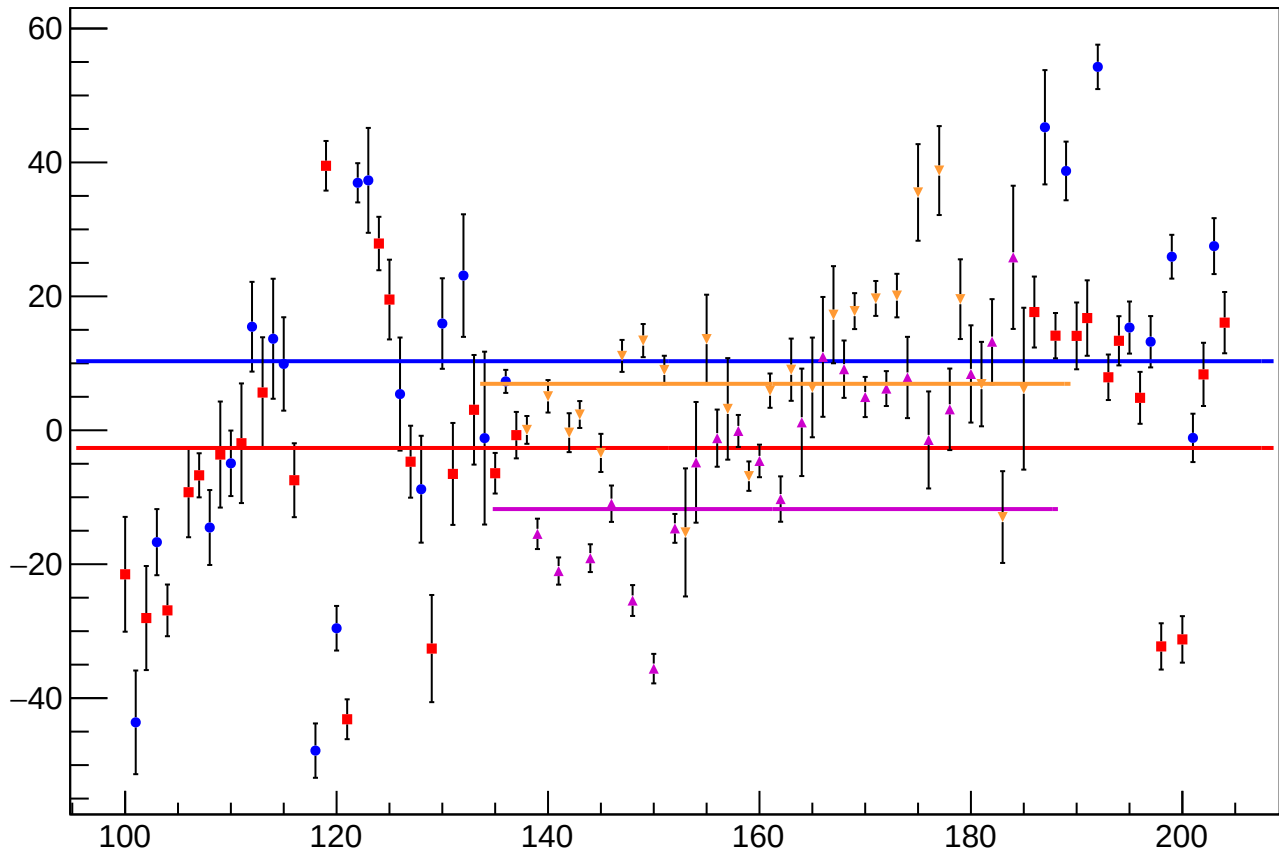
Right: 9682.012+/-1.333 χ^2/NDF : 125173.4/54

In: 10034.102+/-1.308 χ^2/NDF : 237995.1/47

Out: 10053.595+/-1.248 χ^2/NDF : 362328.6/54

All: 10044.304+/-0.903 χ^2/NDF : 600440.0/100

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 10.318 $\pm$ 0.846 χ^2/NDF : 851.0/24

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

Right Out: -2.641 $\pm$ 0.811 χ^2/NDF : 721.2/29

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

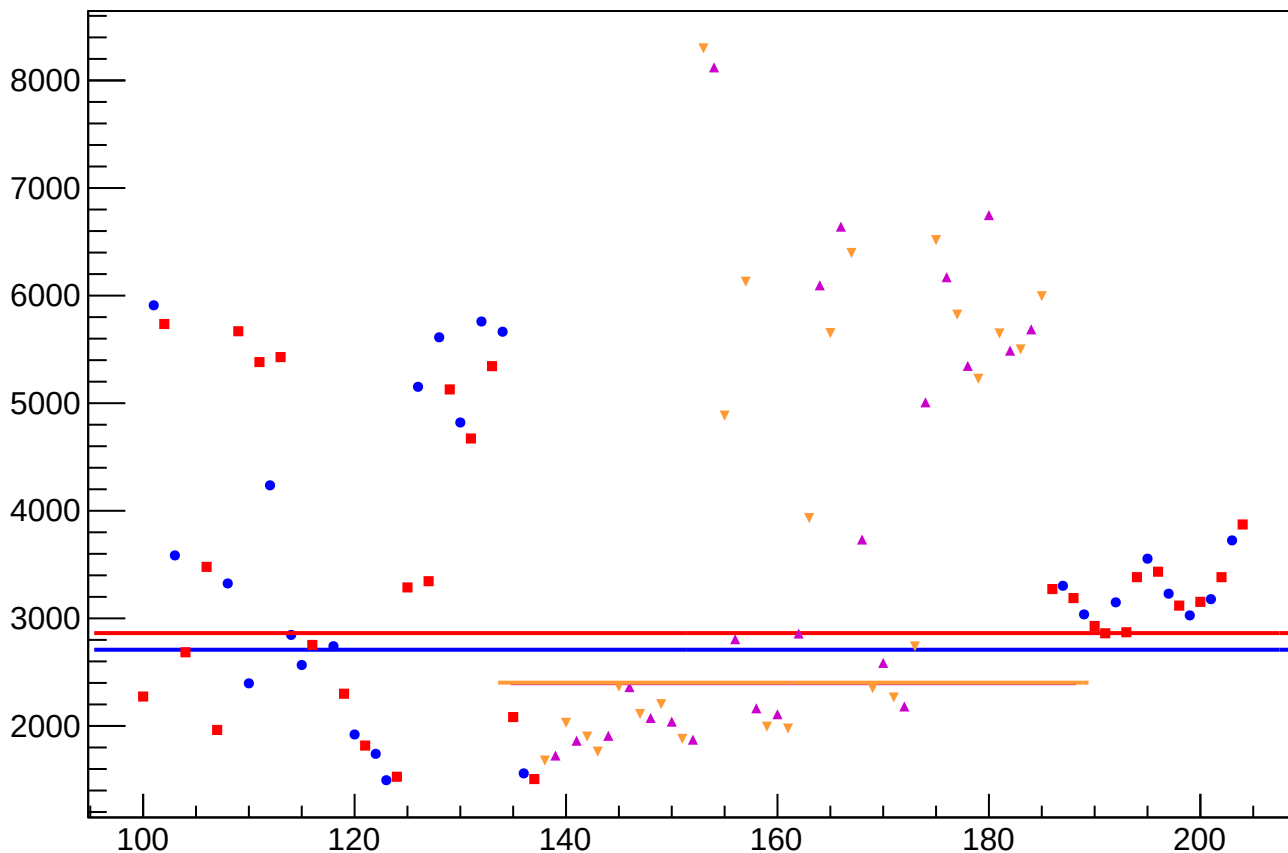
Right: 3.565 $\pm$ 0.586 χ^2/NDF : 1694.5/54

In: -3.597 $\pm$ 0.515 χ^2/NDF :1675.3/47

Out: 3.272 $\pm$ 0.502 χ^2/NDF :1011.2/54

All: -0.076 $\pm$ 0.359 χ^2/NDF : 2777.8/102

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2708.518 $\pm$ 0.598 χ^2/NDF : 3127877.0/24

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

Right Out: 2863.195 $\pm$ 0.574 χ^2/NDF : 2756536.2/29

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

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

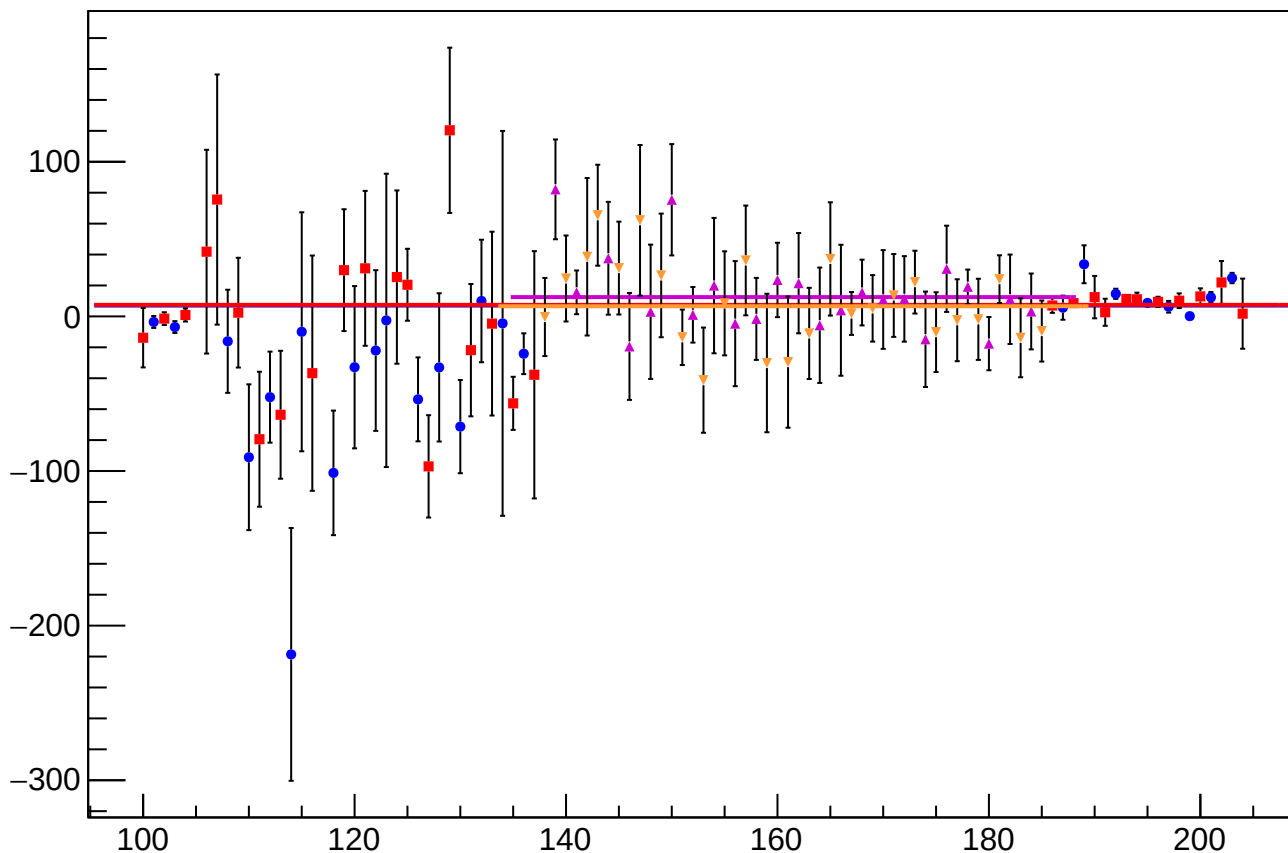
Right: 2789.124 $\pm$ 0.414 χ^2/NDF : 5919238.5/54

In: 2512.676 $\pm$ 0.364 χ^2/NDF : 8696823.7/47

Out: 2578.745 $\pm$ 0.355 χ^2/NDF : 9500972.4/54

All: 2546.543 $\pm$ 0.254 χ^2/NDF : 18214692.0/101

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 7.030 $\pm$ 1.186 χ^2/NDF : 109.5/24

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

Right Out: 7.458 $\pm$ 1.238 χ^2/NDF : 52.4/29

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

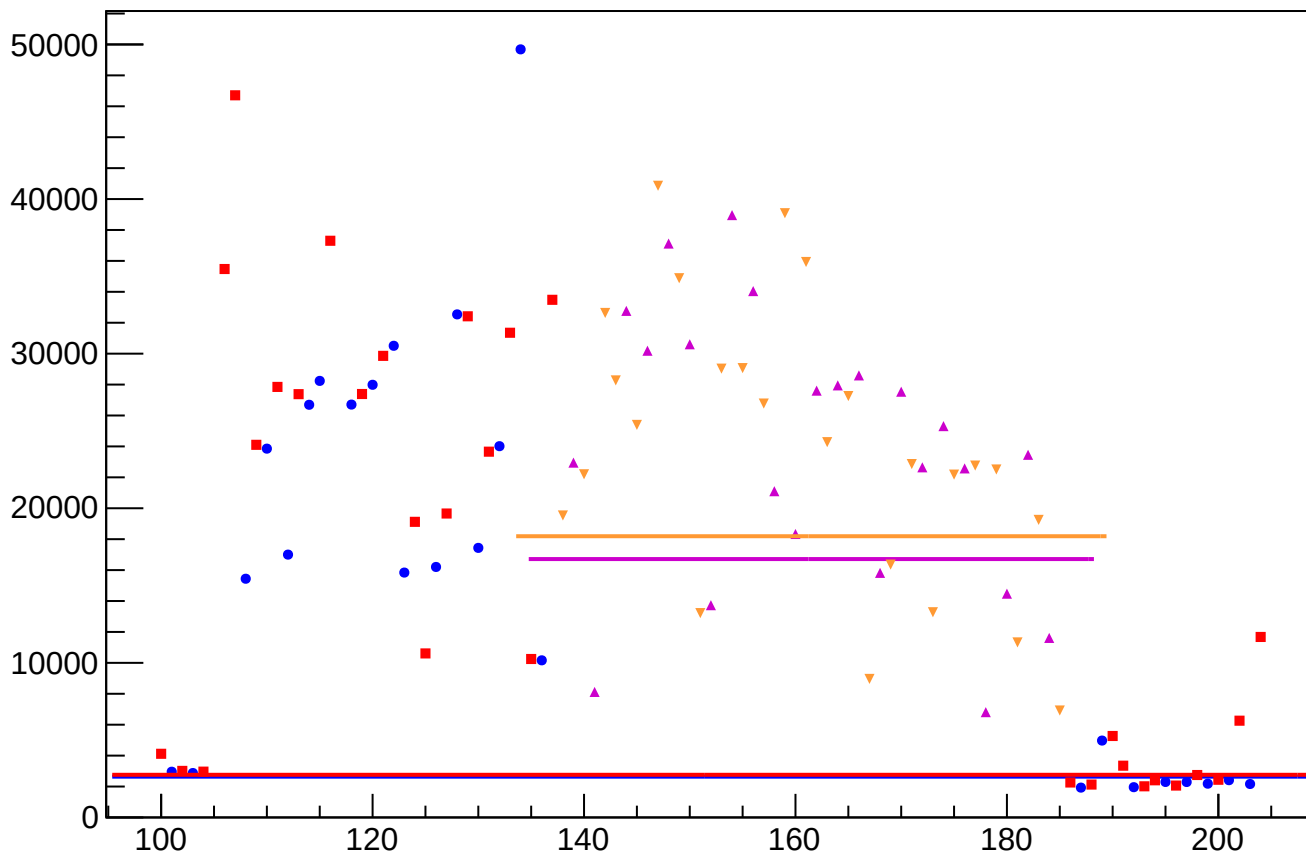
Right: 7.235 $\pm$ 0.857 χ^2/NDF : 162.0/54

In: 7.317 $\pm$ 1.154 χ^2/NDF : 126.0/47

Out: 7.408 $\pm$ 1.203 χ^2/NDF : 69.2/54

All: 7.360 $\pm$ 0.833 χ^2/NDF : 195.2/102

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2640.024 ± 0.839 $\chi^2/\text{NDF}: 6968150.6/24$

Left Out: 18190.387 ± 3.590 $\chi^2/\text{NDF}: 5261328.5/24$

Right Out: 2759.754 ± 0.876 $\chi^2/\text{NDF}: 8987831.7/29$

Left In: 16713.653 ± 3.553 $\chi^2/\text{NDF}: 6194178.8/22$

Left: 17444.397 ± 2.526 $\chi^2/\text{NDF}: 11540970.2/47$

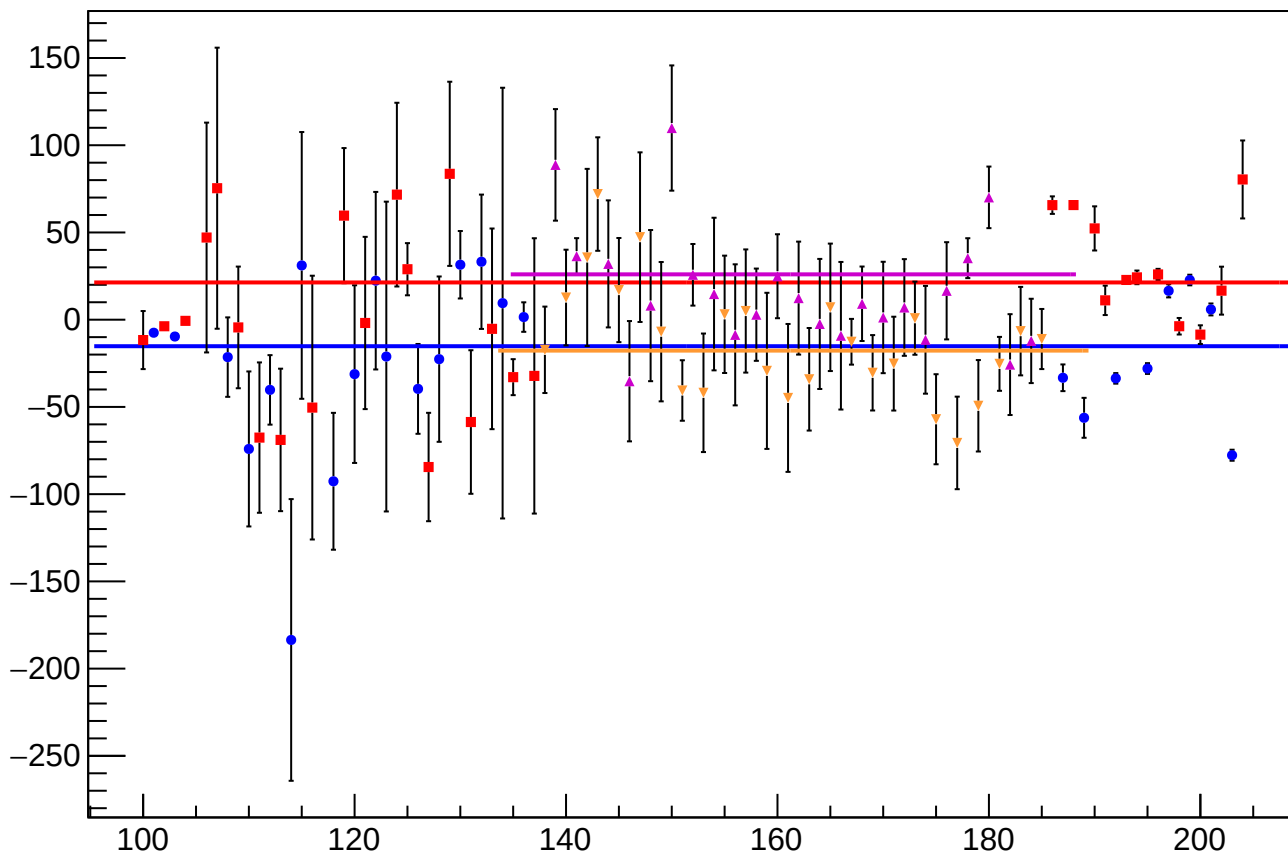
Right: 2697.307 ± 0.606 $\chi^2/\text{NDF}: 15965731.6/54$

In: 3382.758 ± 0.816 $\chi^2/\text{NDF}: 28020838.8/47$

Out: 3626.256 ± 0.851 $\chi^2/\text{NDF}: 31683699.1/54$

All: 3499.474 ± 0.589 $\chi^2/\text{NDF}: 59747187.1/100$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -15.199 $\pm$ 1.043 χ^2/NDF : 765.2/24

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

Right Out: 21.348 $\pm$ 1.085 χ^2/NDF : 625.4/29

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

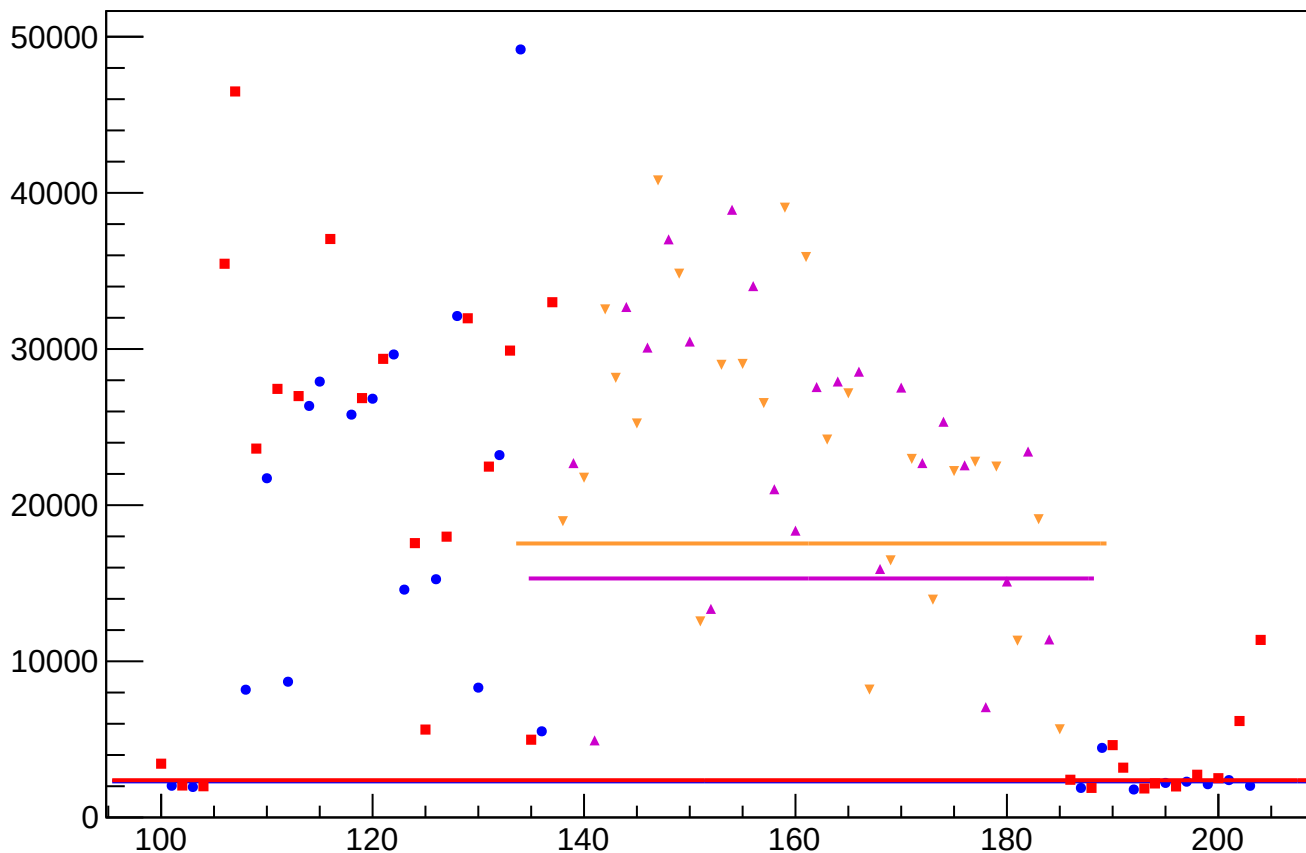
Right: 2.349 $\pm$ 0.752 χ^2/NDF : 1979.9/54

In: -13.333 $\pm$ 1.019 χ^2/NDF :868.4/47

Out: 19.572 $\pm$ 1.061 χ^2/NDF :711.4/54

All: 2.468 $\pm$ 0.735 χ^2/NDF : 2080.3/102

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2310.079 ± 0.738 $\chi^2/\text{NDF}: 5795293.5/24$

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

Right Out: 2384.875 ± 0.768 $\chi^2/\text{NDF}: 8638250.5/29$

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

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

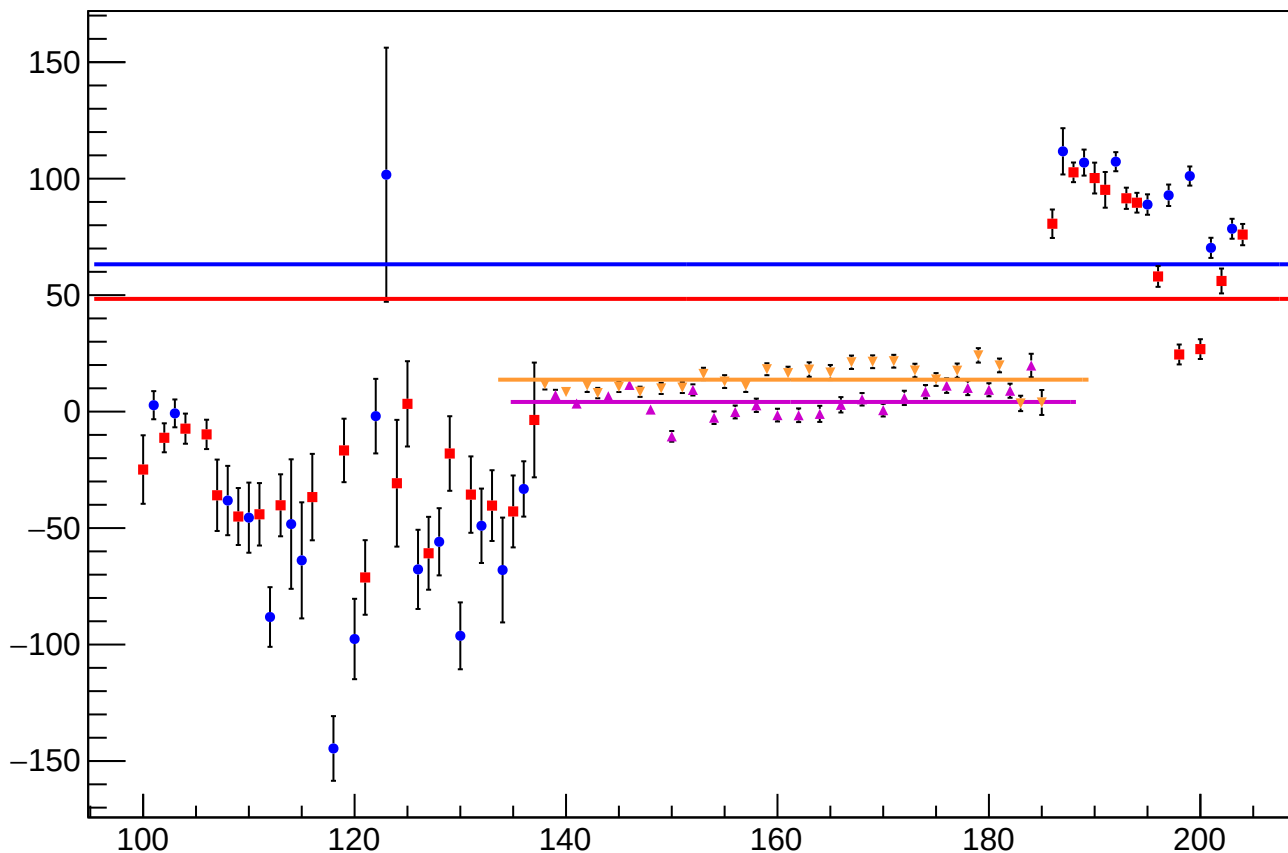
Right: 2345.993 ± 0.532 $\chi^2/\text{NDF}: 14438480.6/54$

In: 2898.825 ± 0.721 $\chi^2/\text{NDF}: 27576776.2/47$

Out: 3074.021 ± 0.750 $\chi^2/\text{NDF}: 32276560.9/54$

All: 2982.954 ± 0.520 $\chi^2/\text{NDF}: 59881709.1/101$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 63.233+/-1.442 χ^2/NDF : 1600.8/24

Left Out: 13.710+/-0.535 χ^2/NDF : 89.9/24

Right Out: 48.385+/-1.280 χ^2/NDF : 1313.9/29

Left In: 4.141+/-0.555 χ^2/NDF : 111.7/22

Left: 9.097+/-0.385 χ^2/NDF : 355.6/47

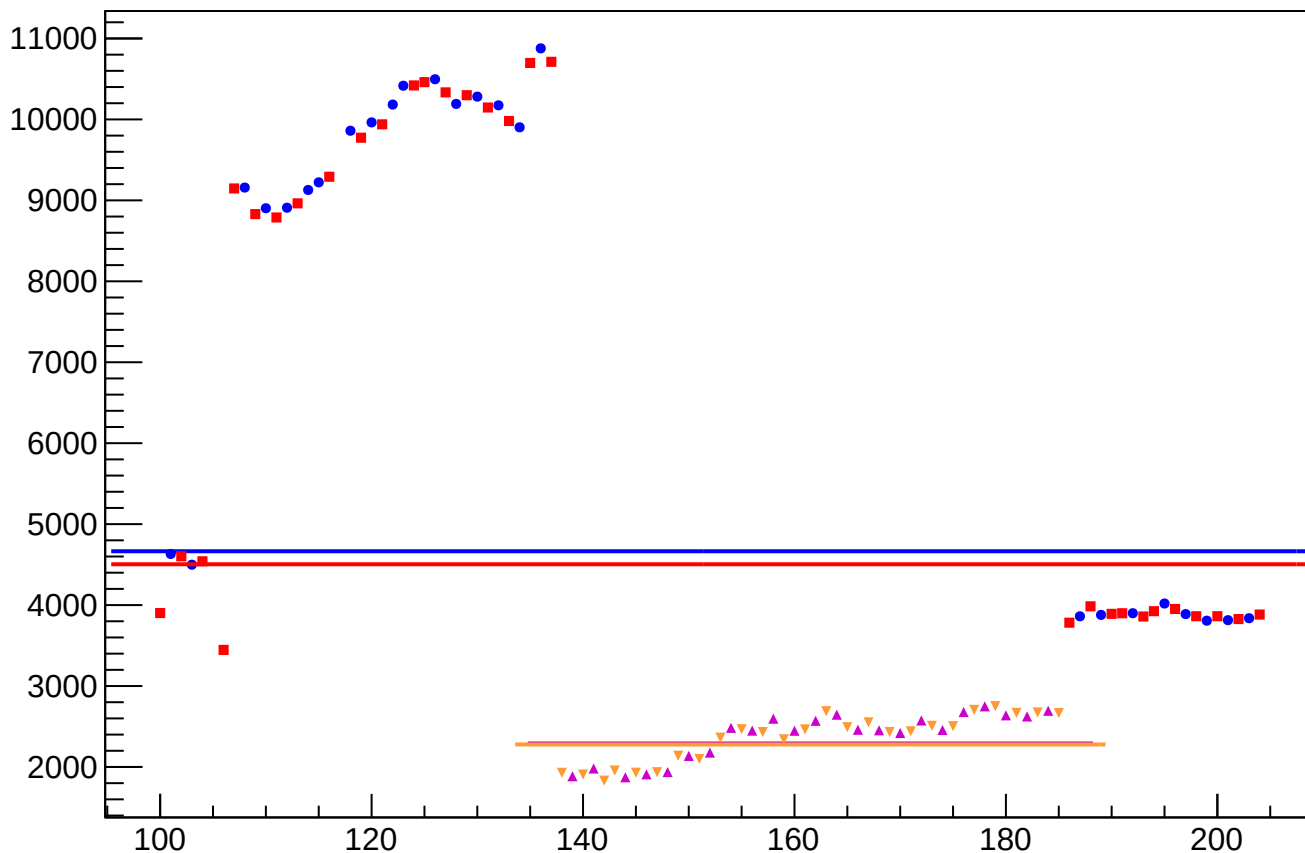
Right: 54.925+/-0.957 χ^2/NDF : 2974.0/54

In: 11.756+/-0.518 χ^2/NDF : 3174.5/47

Out: 18.872+/-0.494 χ^2/NDF : 2028.6/54

All: 15.483+/-0.357 χ^2/NDF : 5302.0/102

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4664.964+/-1.020 χ^2/NDF : 3600816.0/24

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

Right Out: 4504.266+/-0.905 χ^2/NDF : 3734208.8/29

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

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

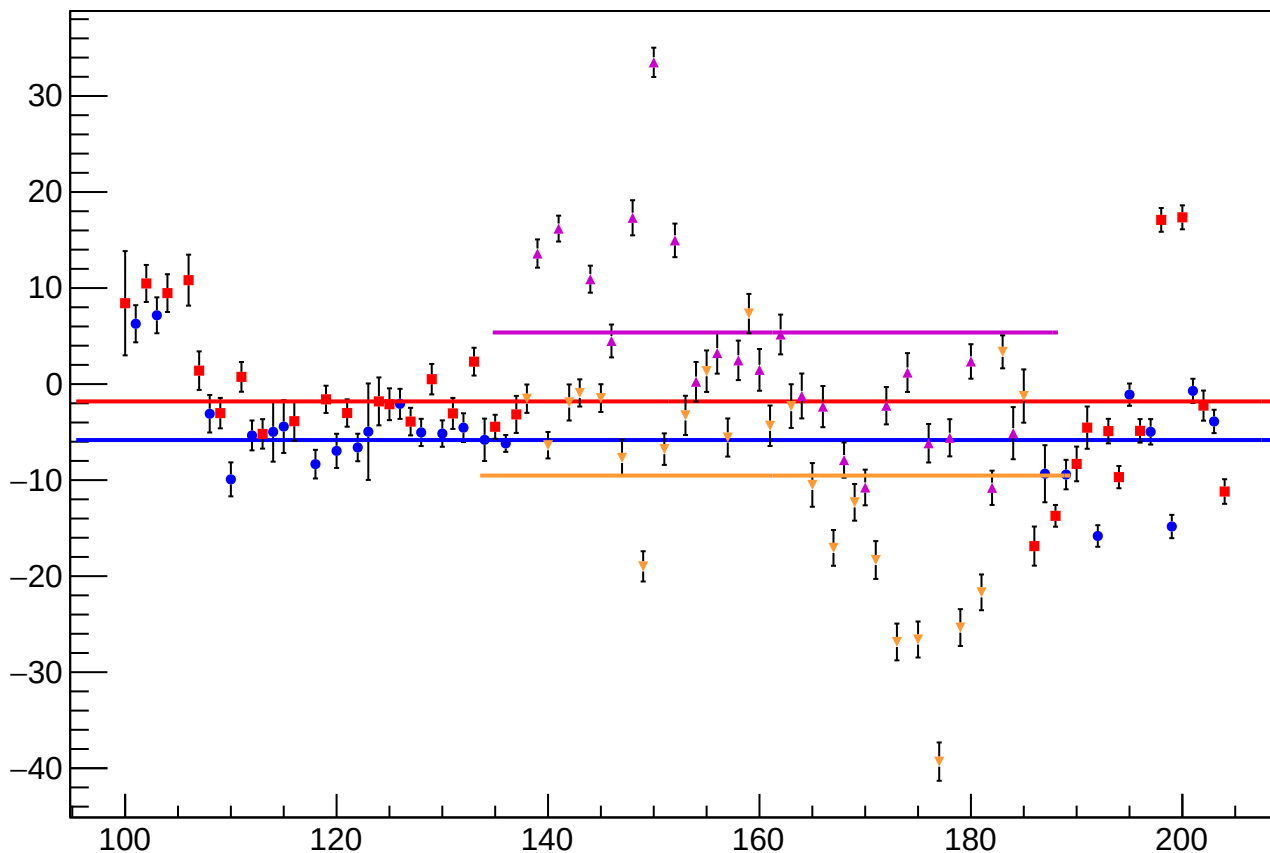
Right: 4575.046+/-0.677 χ^2/NDF : 7348913.9/54

In: 2596.457+/-0.366 χ^2/NDF : 8912194.7/47

Out: 2609.541+/-0.349 χ^2/NDF : 9491916.6/54

All: 2603.310+/-0.253 χ^2/NDF : 18404780.0/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -5.827 ± 0.300 $\chi^2/\text{NDF}: 283.3/24$

Left Out: -9.524 ± 0.365 $\chi^2/\text{NDF}: 884.1/24$

Right Out: -1.803 ± 0.283 $\chi^2/\text{NDF}: 891.3/29$

Left In: 5.372 ± 0.383 $\chi^2/\text{NDF}: 869.8/22$

Left: -2.437 ± 0.264 $\chi^2/\text{NDF}: 2547.3/47$

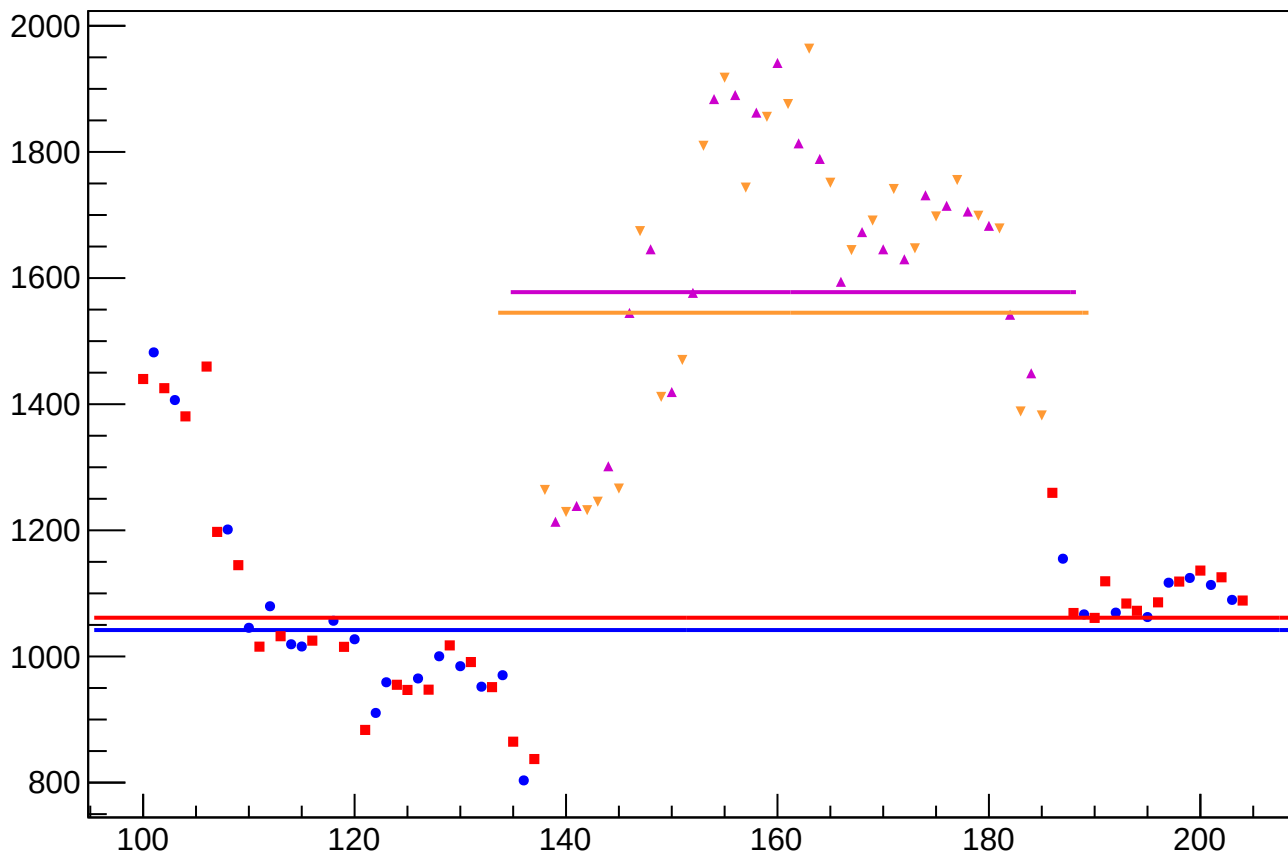
Right: -3.698 ± 0.206 $\chi^2/\text{NDF}: 1269.6/54$

In: -1.563 ± 0.236 $\chi^2/\text{NDF}: 1682.8/47$

Out: -4.707 ± 0.224 $\chi^2/\text{NDF}: 2055.0/54$

All: -3.221 ± 0.162 $\chi^2/\text{NDF}: 3831.1/102$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1041.883 $\pm$ 0.212 χ^2/NDF : 409792.8/24

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

Right Out: 1061.429 $\pm$ 0.200 χ^2/NDF : 386886.8/29

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

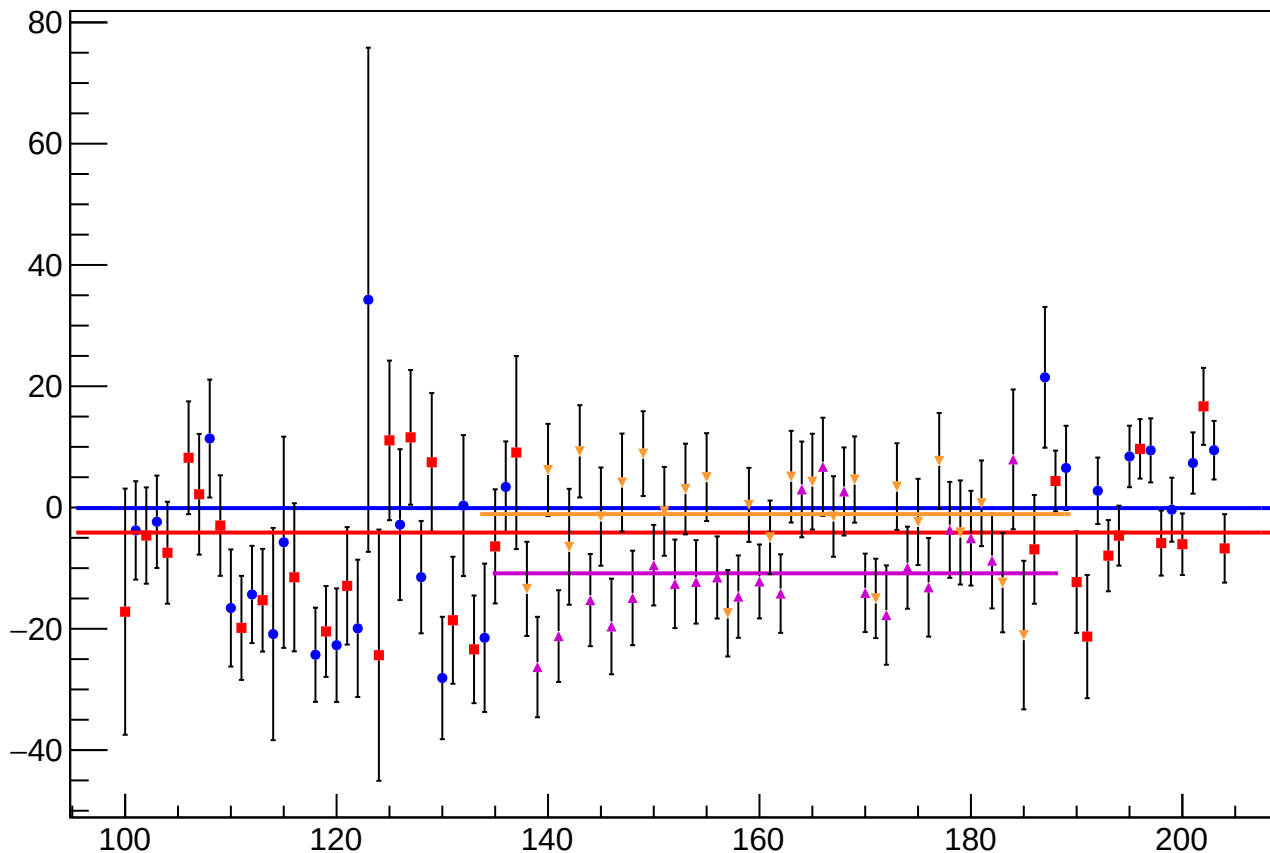
Right: 1052.227 $\pm$ 0.146 χ^2/NDF : 801165.2/54

In: 1245.895 $\pm$ 0.167 χ^2/NDF : 3460259.0/47

Out: 1243.313 $\pm$ 0.158 χ^2/NDF : 3423018.5/54

All: 1244.534 $\pm$ 0.115 χ^2/NDF : 6883403.5/100

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -0.095 ± 1.532 $\chi^2/\text{NDF}: 57.9/24$

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

Right Out: -4.126 ± 1.401 $\chi^2/\text{NDF}: 52.8/29$

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

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

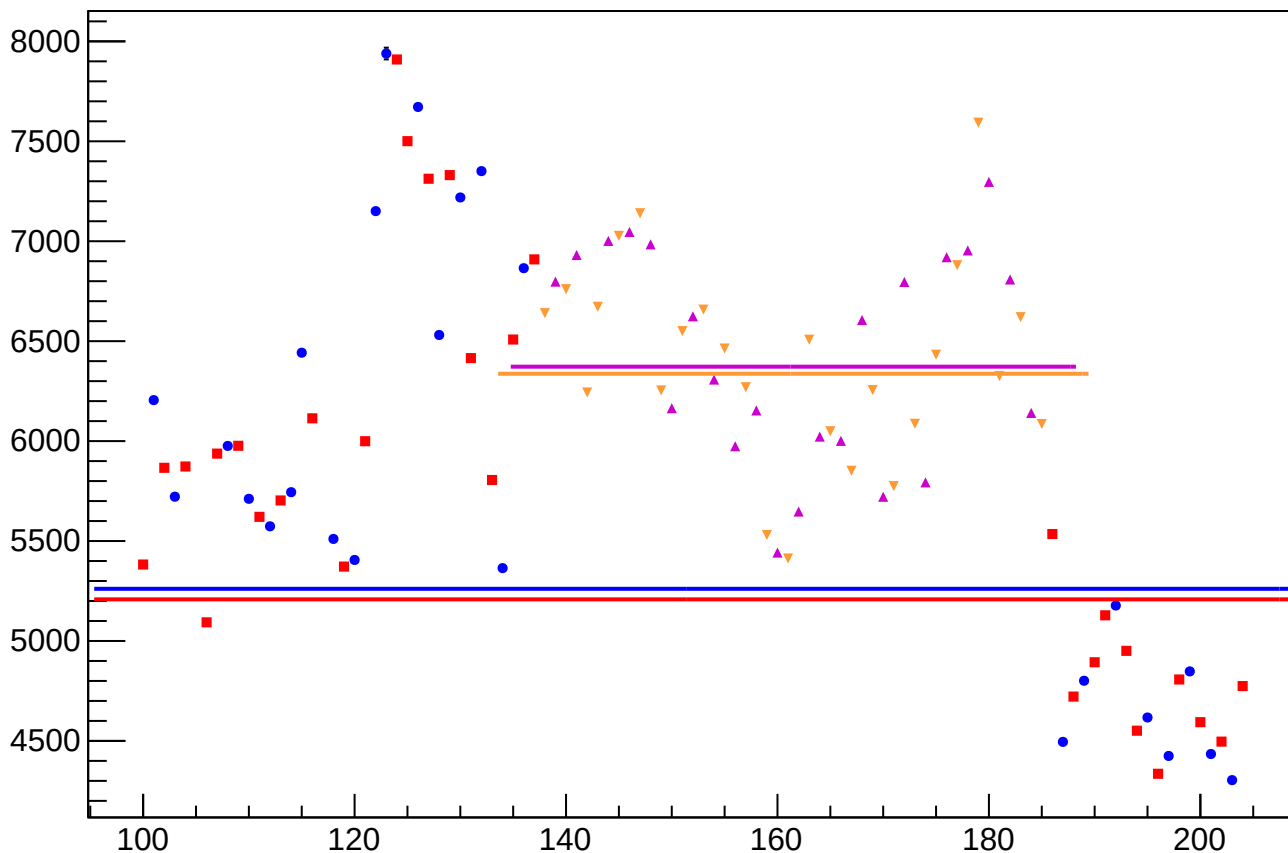
Right: -2.291 ± 1.034 $\chi^2/\text{NDF}: 114.4/54$

In: -5.440 ± 1.087 $\chi^2/\text{NDF}: 106.7/47$

Out: -2.696 ± 1.020 $\chi^2/\text{NDF}: 82.5/54$

All: -3.980 ± 0.744 $\chi^2/\text{NDF}: 192.6/102$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5260.954 ± 1.083 $\chi^2/\text{NDF}: 718388.4/24$

Left Out: 6336.876 ± 1.052 $\chi^2/\text{NDF}: 222912.5/24$

Right Out: 5208.212 ± 0.991 $\chi^2/\text{NDF}: 627790.5/29$

Left In: 6372.349 ± 1.090 $\chi^2/\text{NDF}: 247257.0/22$

Left: 6353.974 ± 0.757 $\chi^2/\text{NDF}: 470718.0/47$

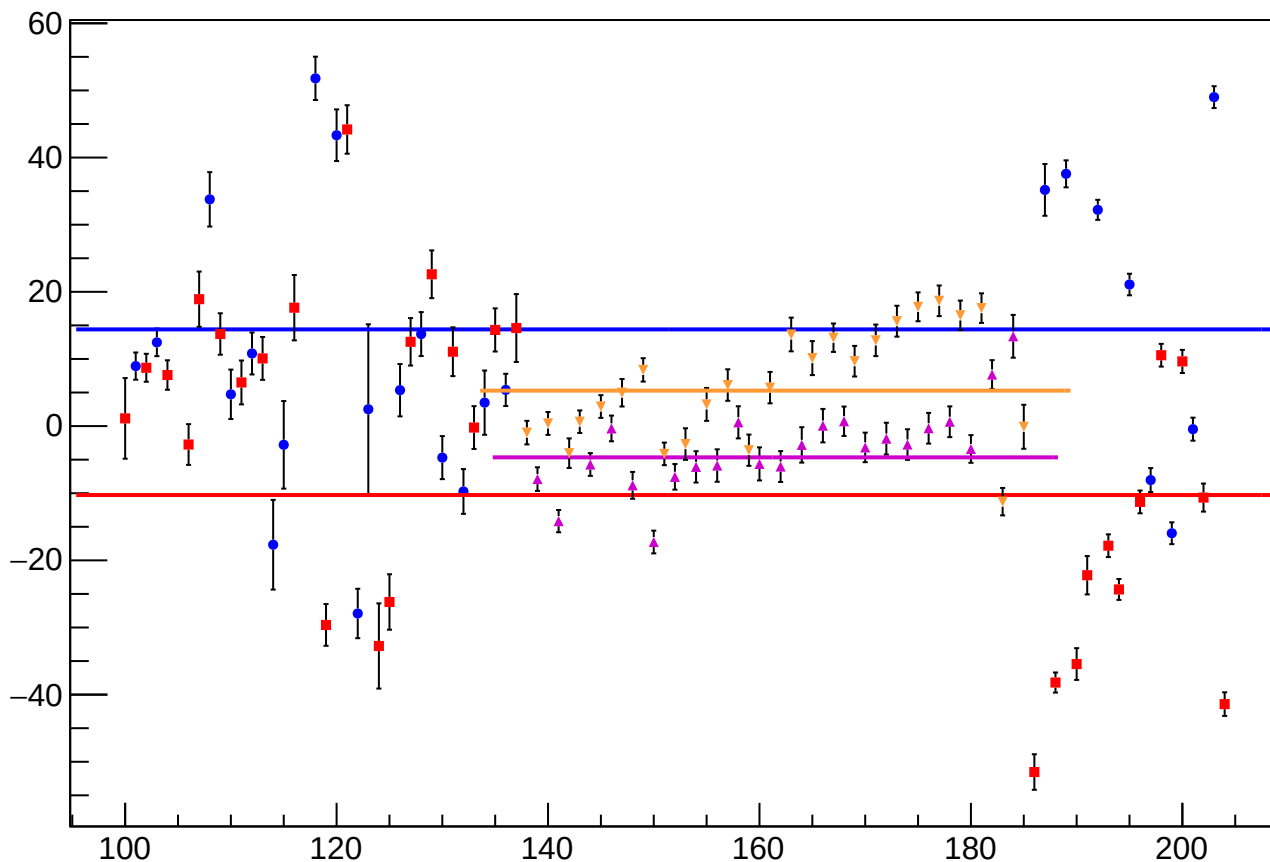
Right: 5232.226 ± 0.731 $\chi^2/\text{NDF}: 1347469.9/54$

In: 5813.202 ± 0.768 $\chi^2/\text{NDF}: 1488596.5/47$

Out: 5738.819 ± 0.721 $\chi^2/\text{NDF}: 1461119.0/54$

All: 5773.646 ± 0.526 $\chi^2/\text{NDF}: 2954698.5/100$

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 14.405 ± 0.492 $\chi^2/\text{NDF}: 1861.5/24$

Left Out: 5.284 ± 0.421 $\chi^2/\text{NDF}: 366.1/24$

Right Out: -10.269 ± 0.450 $\chi^2/\text{NDF}: 2340.0/29$

Left In: -4.657 ± 0.443 $\chi^2/\text{NDF}: 196.5/22$

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

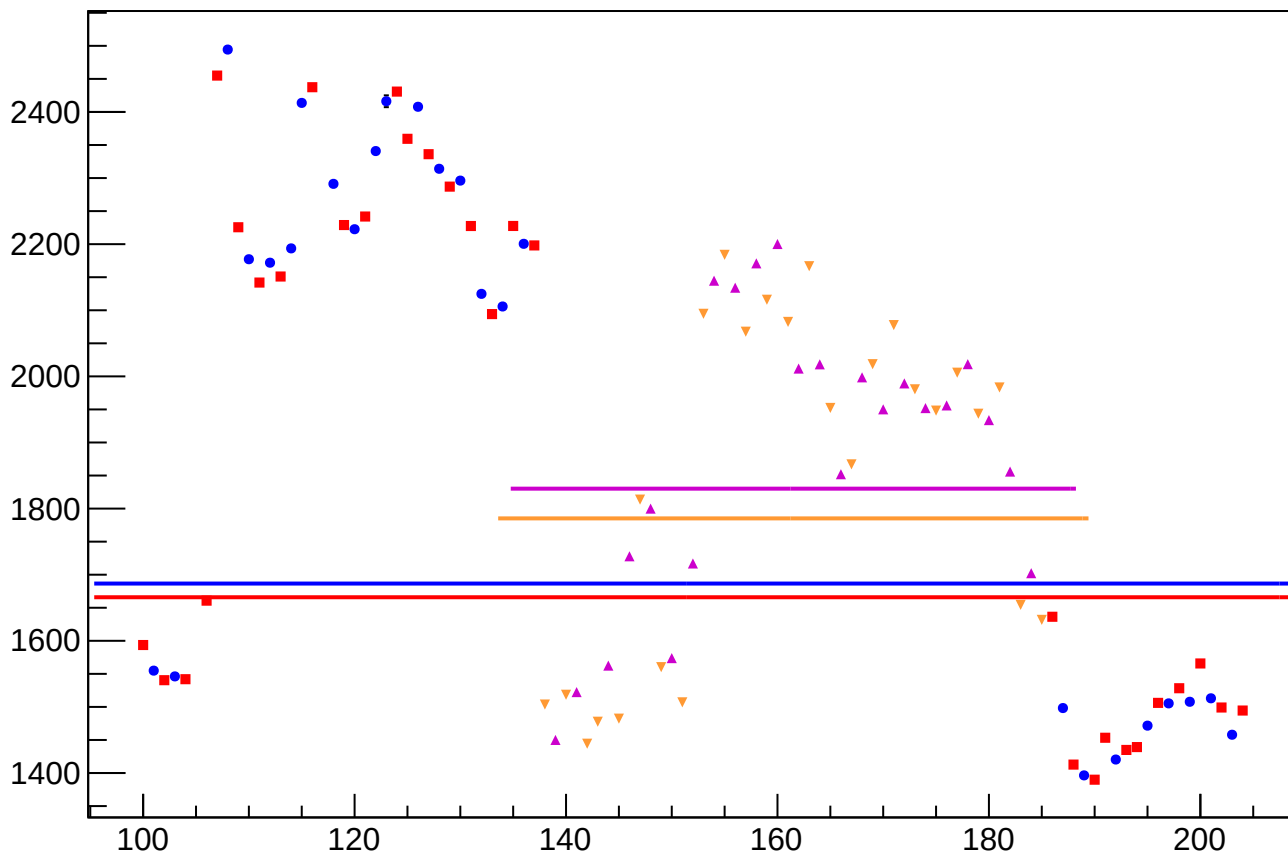
Right: 0.966 ± 0.332 $\chi^2/\text{NDF}: 5571.8/54$

In: 3.886 ± 0.329 $\chi^2/\text{NDF}: 2886.6/47$

Out: -1.973 ± 0.307 $\chi^2/\text{NDF}: 3343.9/54$

All: 0.753 ± 0.225 $\chi^2/\text{NDF}: 6399.7/102$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1686.611 $\pm$ 0.348 χ^2 /NDF: 1002680.1/24

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

Right Out: 1665.894 $\pm$ 0.318 χ^2 /NDF: 1039030.7/29

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

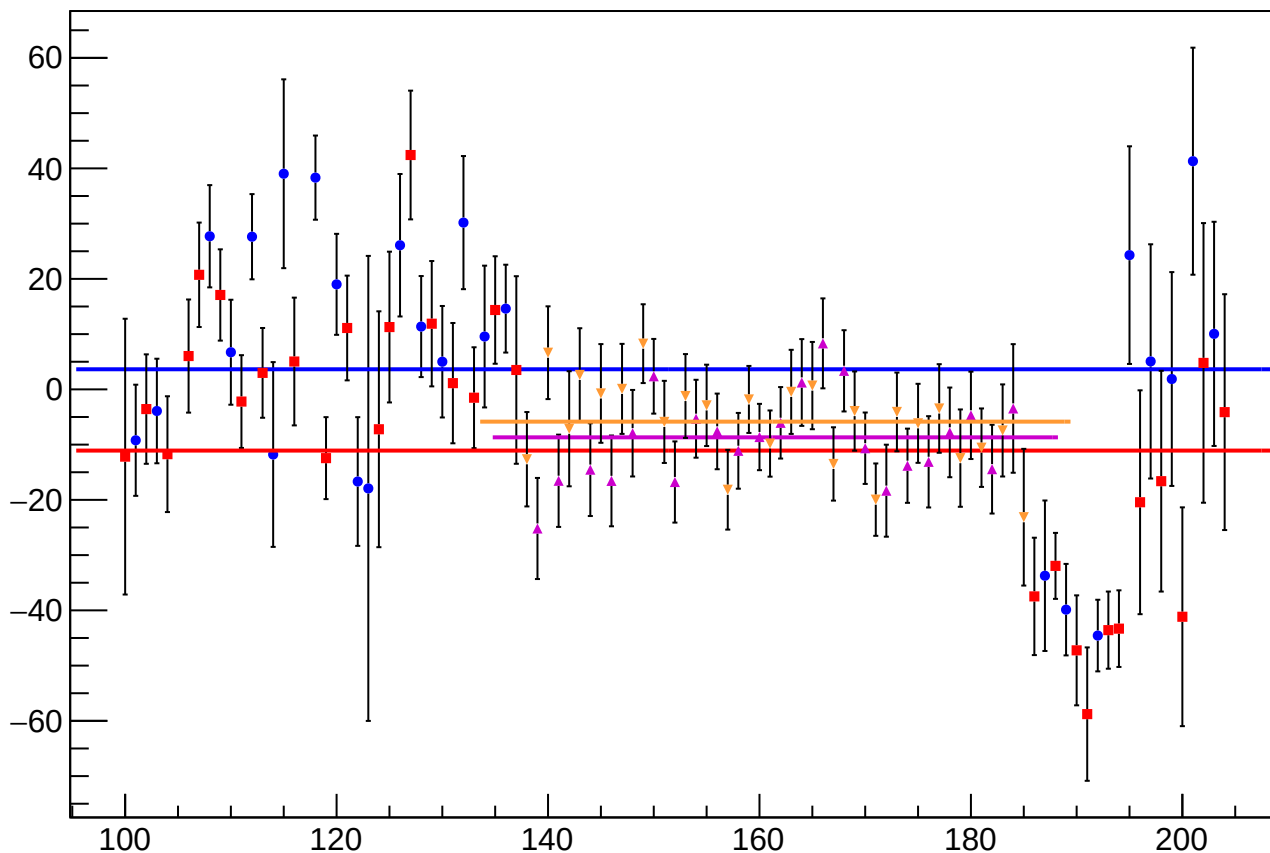
Right: 1675.327 $\pm$ 0.235 χ^2 /NDF: 2043642.8/54

In: 1765.824 $\pm$ 0.233 χ^2 /NDF: 1605048.7/47

Out: 1729.518 $\pm$ 0.217 χ^2 /NDF: 1864693.0/54

All: 1746.412 $\pm$ 0.159 χ^2 /NDF: 3482737.8/100

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 3.637 ± 2.145 χ^2/NDF : 156.6/24

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

Right Out: -11.079 ± 1.870 χ^2/NDF : 169.3/29

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

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

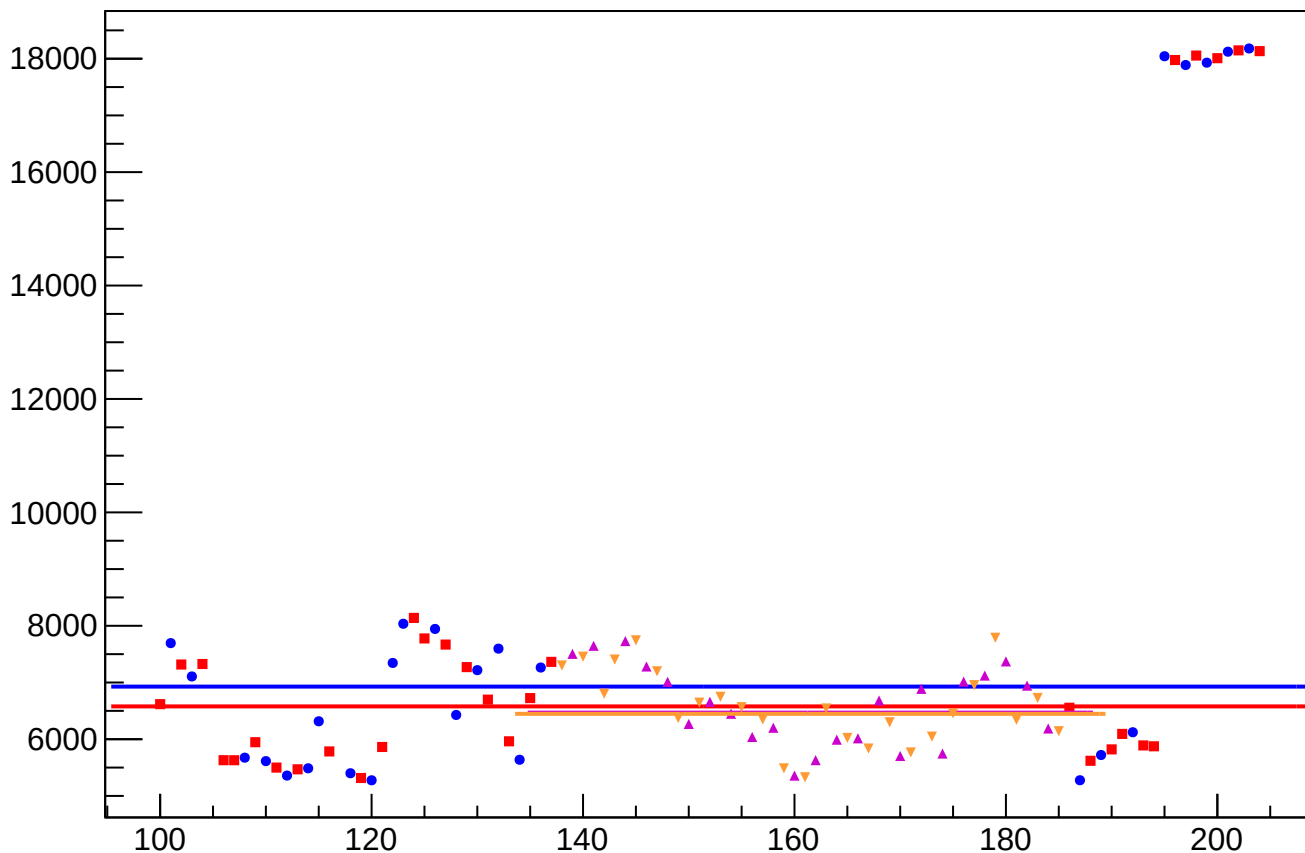
Right: -4.724 ± 1.409 χ^2/NDF : 352.6/54

In: -4.383 ± 1.267 χ^2/NDF : 200.0/47

Out: -7.922 ± 1.179 χ^2/NDF : 197.3/54

All: -6.280 ± 0.863 χ^2/NDF : 401.5/102

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6927.921 ± 1.517 $\chi^2/\text{NDF}: 3517122.8/24$

Left Out: 6447.712 ± 1.074 $\chi^2/\text{NDF}: 371671.1/24$

Right Out: 6578.537 ± 1.322 $\chi^2/\text{NDF}: 3354410.2/29$

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

Left: 6457.948 ± 0.772 $\chi^2/\text{NDF}: 755184.7/47$

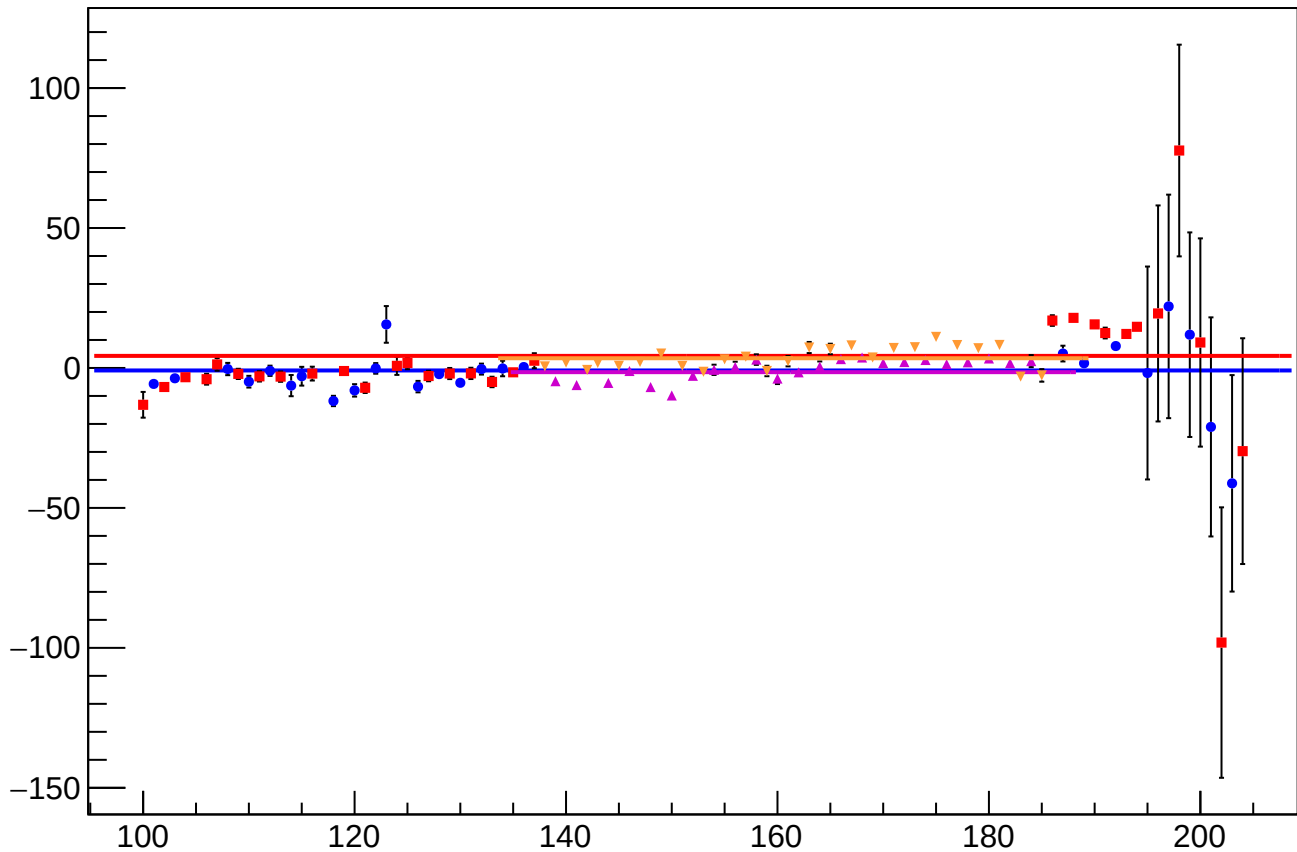
Right: 6729.427 ± 0.997 $\chi^2/\text{NDF}: 6901684.7/54$

In: 6629.124 ± 0.896 $\chi^2/\text{NDF}: 3960078.6/47$

Out: 6499.690 ± 0.833 $\chi^2/\text{NDF}: 3731981.0/54$

All: 6559.732 ± 0.610 $\chi^2/\text{NDF}: 7703247.0/10$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.893 ± 0.406 χ^2/NDF : 173.1/24

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

Right Out: 4.314 ± 0.355 χ^2/NDF : 671.2/29

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

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

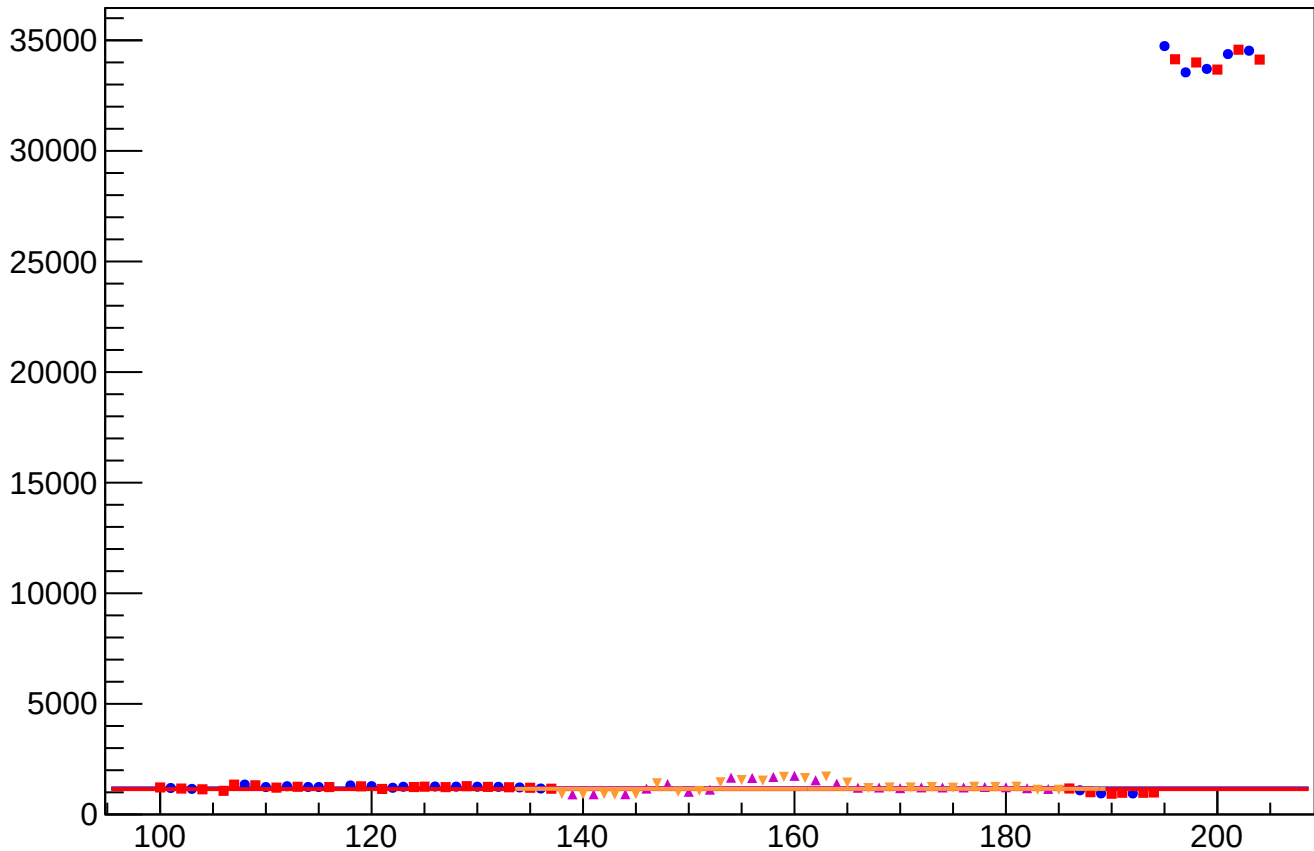
Right: 2.059 ± 0.267 χ^2/NDF : 937.7/54

In: -1.296 ± 0.236 χ^2/NDF : 377.3/47

Out: 3.789 ± 0.218 χ^2/NDF : 850.7/54

All: 1.451 ± 0.160 χ^2/NDF : 1478.2/102

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1177.447 $\pm$ 0.287 χ^2 /NDF: 7596930.6/24

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

Right Out: 1145.490 $\pm$ 0.251 χ^2 /NDF: 7039959.6/29

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

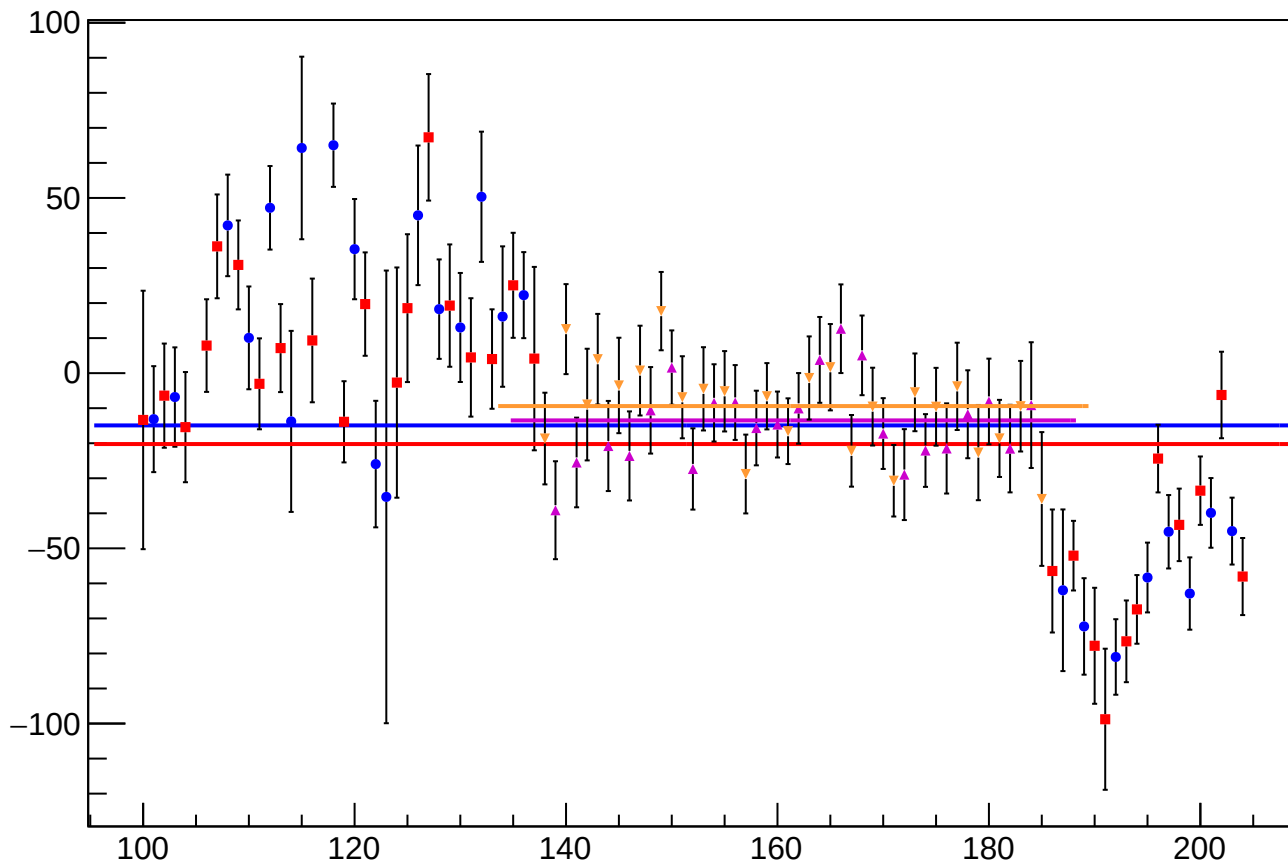
Right: 1159.329 $\pm$ 0.189 χ^2 /NDF: 14643926.0/54

In: 1182.416 $\pm$ 0.167 χ^2 /NDF: 8787816.2/47

Out: 1153.828 $\pm$ 0.154 χ^2 /NDF: 8452161.2/54

All: 1166.973 $\pm$ 0.113 χ^2 /NDF: 17255795.0/101

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -14.915 $\pm$ 2.741 χ^2/NDF : 279.3/24

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

Right Out: -20.236 $\pm$ 2.501 χ^2/NDF : 209.0/29

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

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

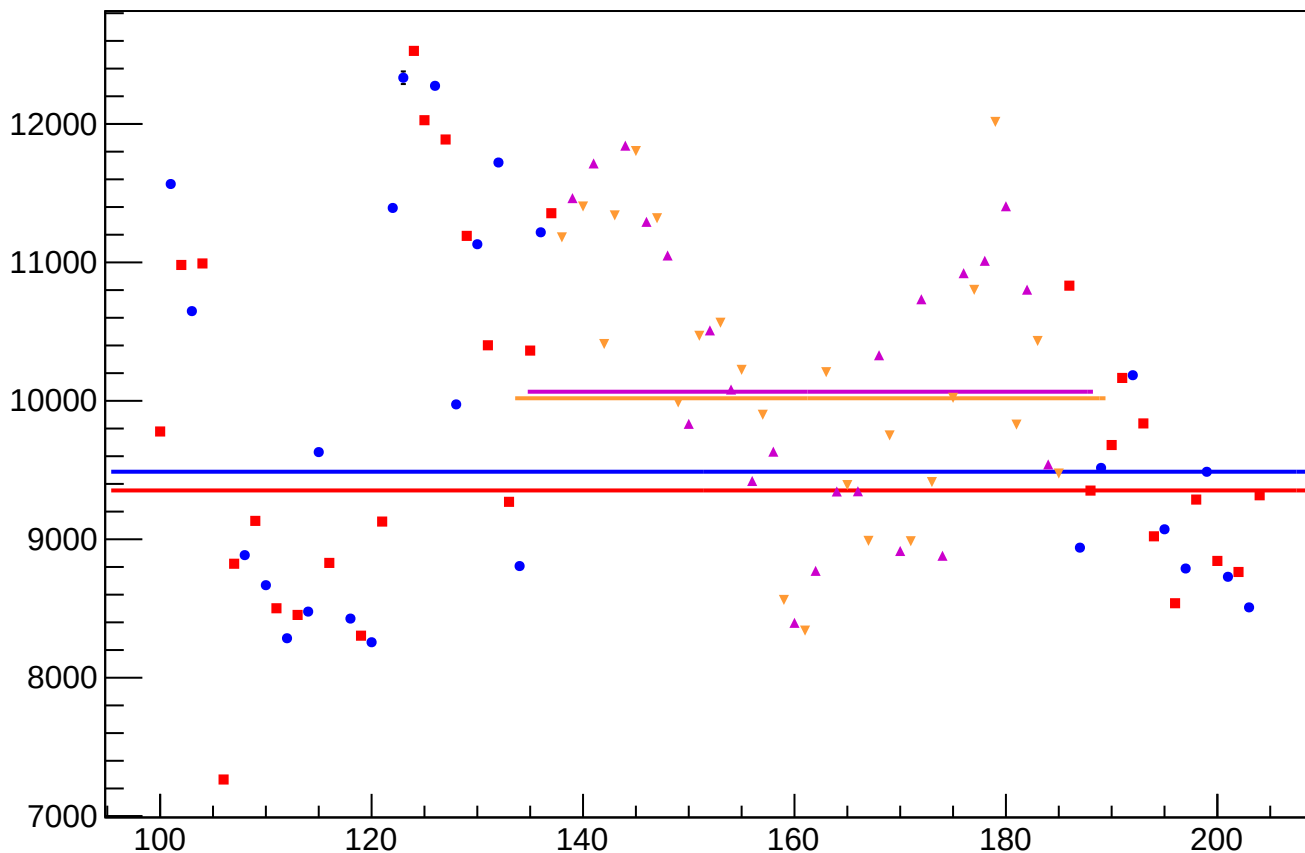
Right: -17.819 $\pm$ 1.847 χ^2/NDF : 490.4/54

In: -14.118 $\pm$ 1.824 χ^2/NDF :301.0/47

Out: -14.499 $\pm$ 1.716 χ^2/NDF :245.3/54

All: -14.320 $\pm$ 1.250 χ^2/NDF : 546.3/102

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9488.053 ± 1.938 $\chi^2/\text{NDF}: 330593.3/24$

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

Right Out: 9352.767 ± 1.768 $\chi^2/\text{NDF}: 325895.8/29$

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

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

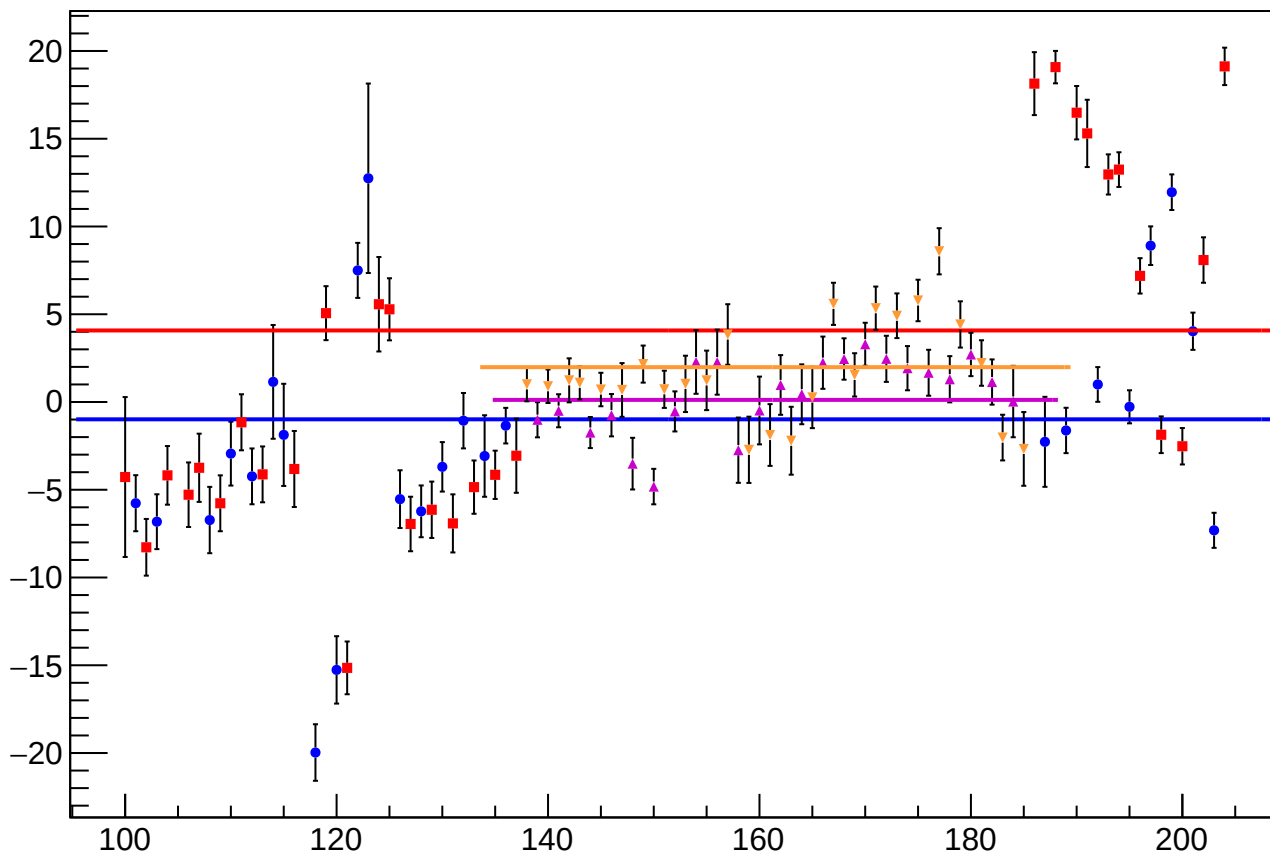
Right: 9414.228 ± 1.306 $\chi^2/\text{NDF}: 659148.1/54$

In: 9810.096 ± 1.290 $\chi^2/\text{NDF}: 738006.0/47$

Out: 9705.153 ± 1.213 $\chi^2/\text{NDF}: 745457.8/54$

All: 9754.431 ± 0.884 $\chi^2/\text{NDF}: 1486976.9/100$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.987±/0.282 χ^2/NDF : 603.9/24

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

Right Out: 4.076±/0.261 χ^2/NDF : 1462.2/29

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

Left: 1.102±/0.185 χ^2/NDF : 194.2/47

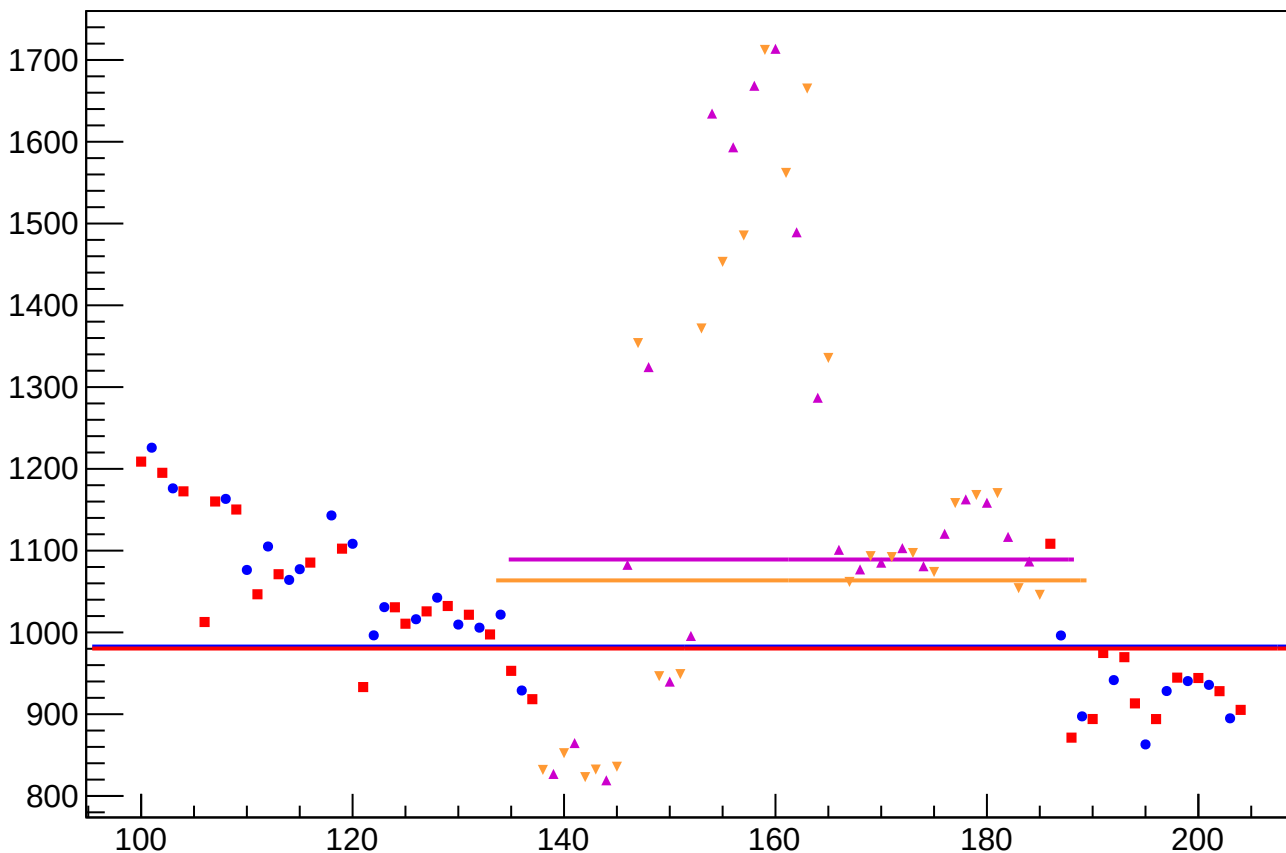
Right: 1.742±/0.191 χ^2/NDF : 2239.9/54

In: -0.407±/0.195 χ^2/NDF :679.6/47

Out: 3.006±/0.182 χ^2/NDF :1596.3/54

All: 1.411±/0.133 χ^2/NDF : 2439.8/102

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 982.697 ± 0.199 χ^2/NDF : 228078.3/24

Left Out: 1063.600 ± 0.180 χ^2/NDF : 1617376.3/24

Right Out: 980.296 ± 0.184 χ^2/NDF : 232158.9/29

Left In: 1089.154 ± 0.190 χ^2/NDF : 1430478.5/22

Left: 1075.700 ± 0.131 χ^2/NDF : 3057378.7/47

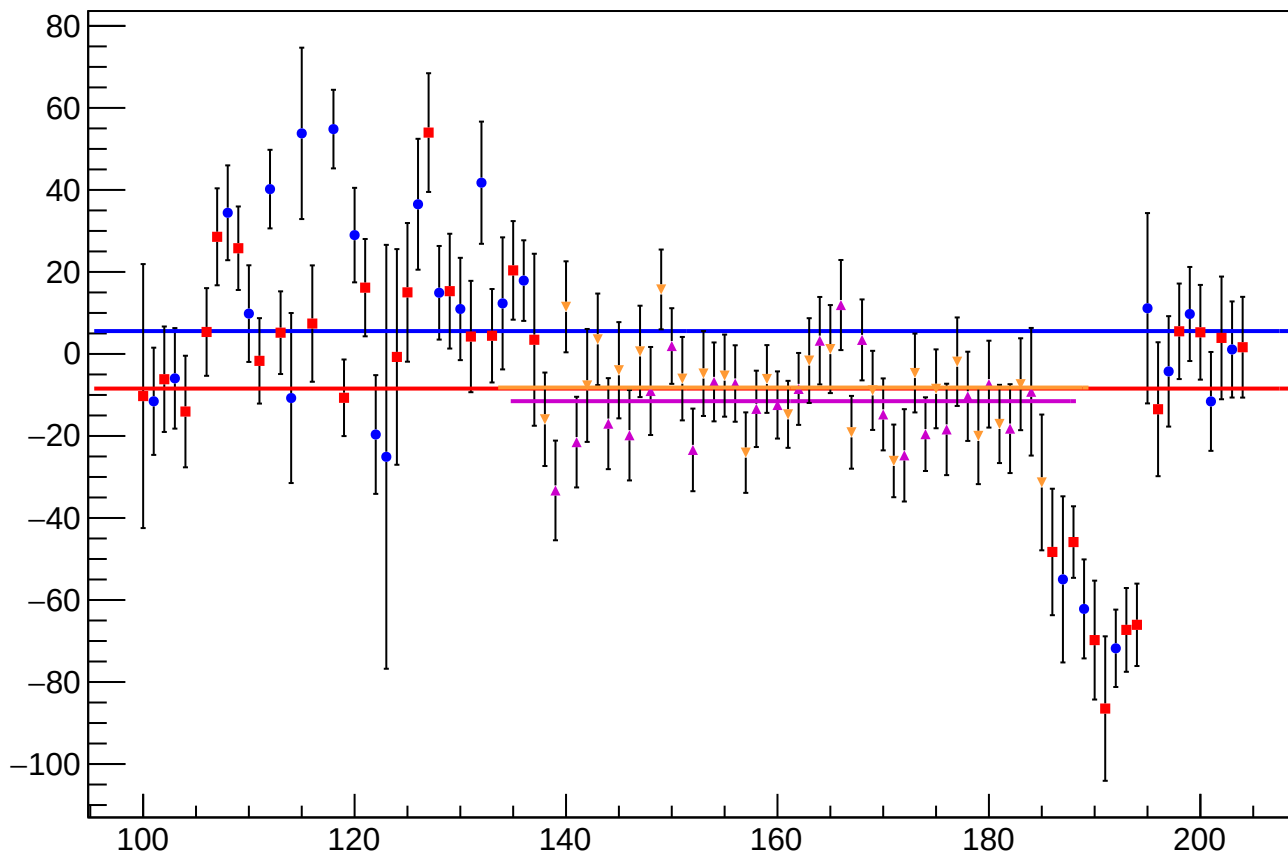
Right: 981.402 ± 0.135 χ^2/NDF : 460315.3/54

In: 1038.506 ± 0.138 χ^2/NDF : 1807924.2/47

Out: 1022.919 ± 0.129 χ^2/NDF : 1953925.8/54

All: 1030.205 ± 0.094 χ^2/NDF : 3768687.9/100

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 5.578 ± 2.559 $\chi^2/\text{NDF}: 184.7/24$

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

Right Out: -8.441 ± 2.281 $\chi^2/\text{NDF}: 195.5/29$

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

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

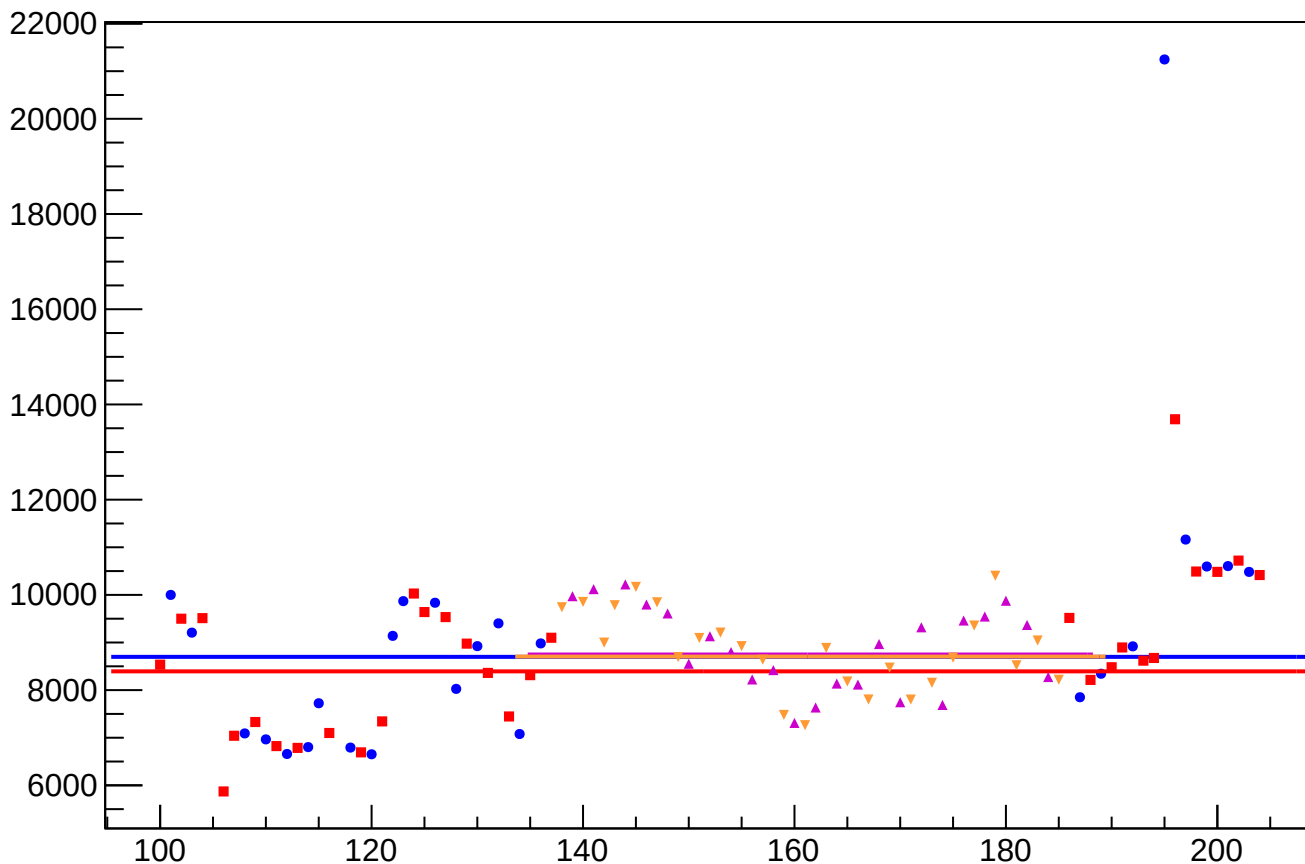
Right: -2.235 ± 1.703 $\chi^2/\text{NDF}: 396.9/54$

In: -4.550 ± 1.634 $\chi^2/\text{NDF}: 232.2/47$

Out: -8.305 ± 1.524 $\chi^2/\text{NDF}: 221.7/54$

All: -6.558 ± 1.114 $\chi^2/\text{NDF}: 456.7/102$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8698.470+/-1.810 χ^2/NDF : 1215125.3/24

Left Out: 8704.193+/-1.449 χ^2/NDF : 332364.3/24

Right Out: 8393.815+/-1.613 χ^2/NDF : 892154.7/29

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

Left: 8725.041+/-1.042 χ^2/NDF : 679904.0/47

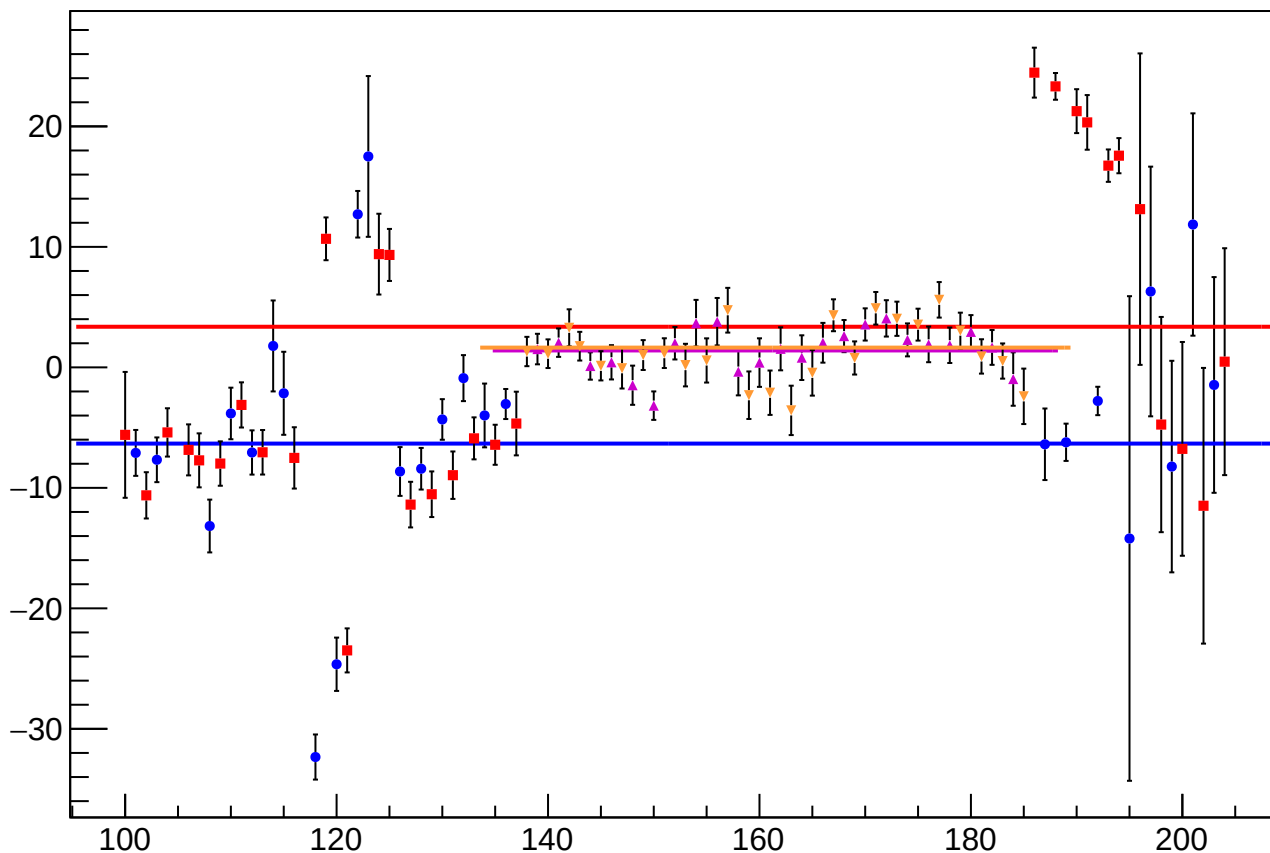
Right: 8528.674+/-1.204 χ^2/NDF : 2123074.6/54

In: 8727.472+/-1.155 χ^2/NDF : 1562669.0/47

Out: 8565.605+/-1.078 χ^2/NDF : 1245017.0/54

All: 8640.928+/-0.788 χ^2/NDF : 2818183.3/100

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.326 $\pm$ 0.426 χ^2/NDF : 424.2/24

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

Right Out: 3.371 $\pm$ 0.373 χ^2/NDF : 1470.4/29

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

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

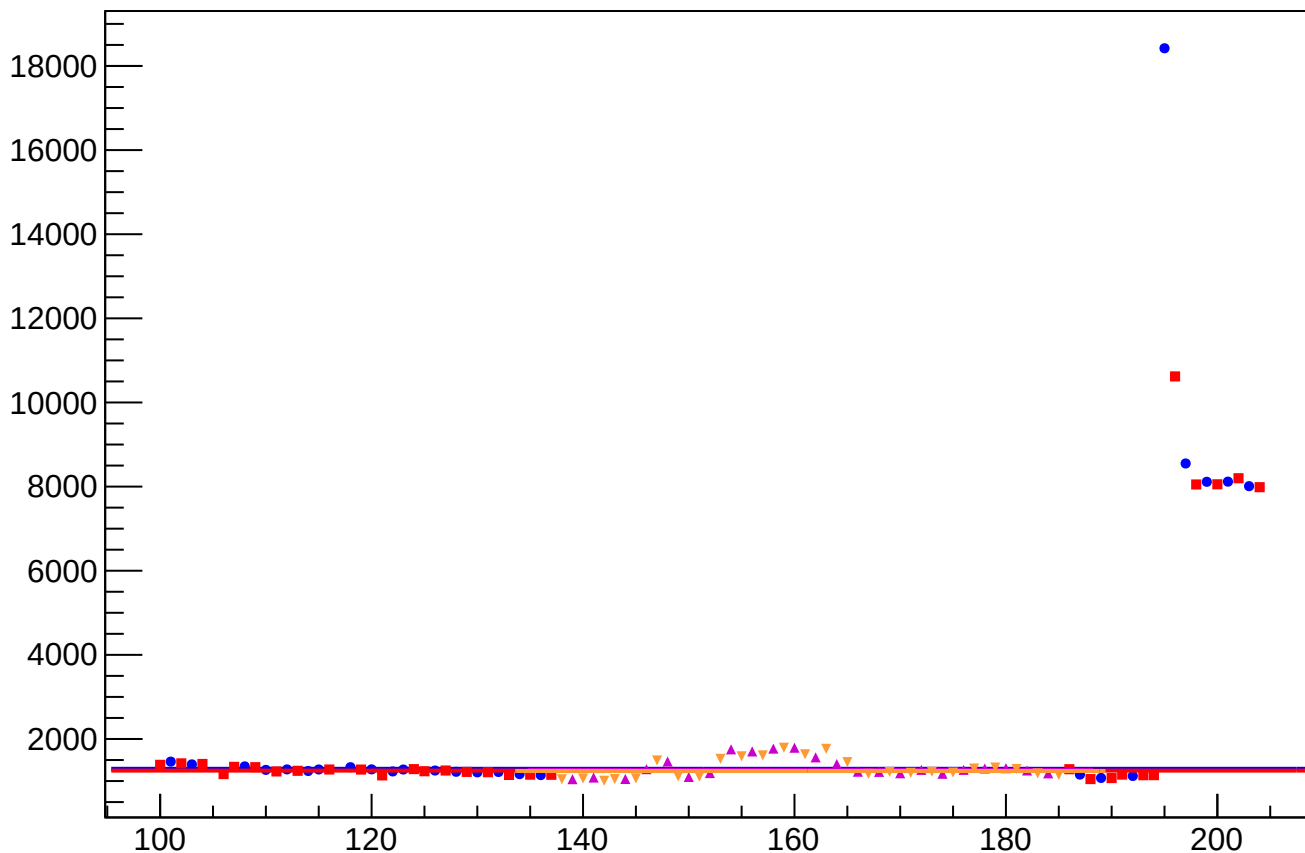
Right: -0.838 $\pm$ 0.281 χ^2/NDF : 2188.1/54

In: -1.263 $\pm$ 0.250 χ^2/NDF :674.3/47

Out: 2.302 $\pm$ 0.231 χ^2/NDF :1535.0/54

All: 0.663 $\pm$ 0.170 χ^2/NDF : 2319.0/102

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1291.242 $\pm$ 0.301 χ^2 /NDF: 6021413.4/24

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

Right Out: 1248.519 $\pm$ 0.264 χ^2 /NDF: 5331720.7/29

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

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

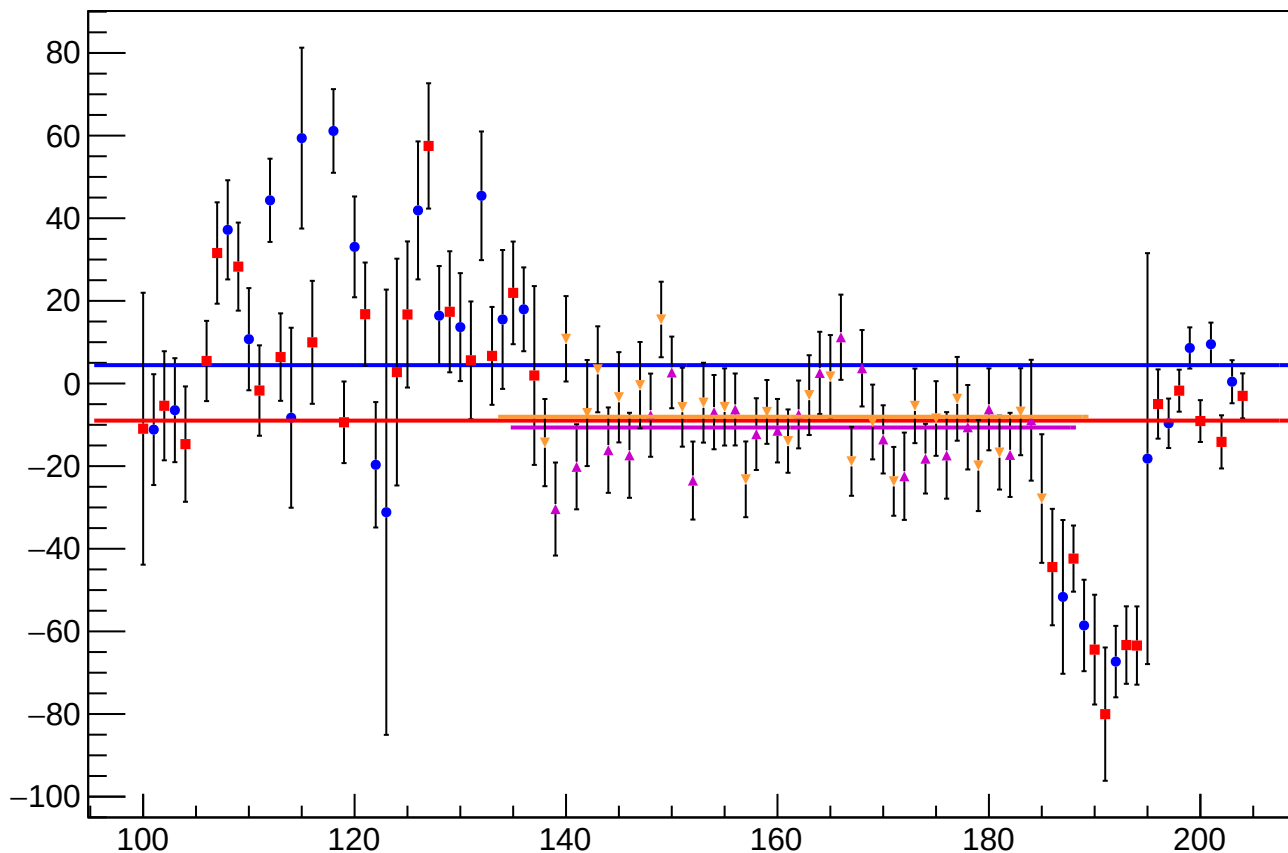
Right: 1267.066 $\pm$ 0.198 χ^2 /NDF: 11364530.5/54

In: 1274.494 $\pm$ 0.177 χ^2 /NDF: 6871295.2/47

Out: 1242.295 $\pm$ 0.163 χ^2 /NDF: 6297796.2/54

All: 1257.099 $\pm$ 0.120 χ^2 /NDF: 13187005.6/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 4.442 ± 1.958 $\chi^2/\text{NDF}: 206.0/24$

Left Out: -8.042 ± 1.918 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -8.981 ± 1.788 $\chi^2/\text{NDF}: 199.3/29$

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

Left: -9.301 ± 1.380 $\chi^2/\text{NDF}: 48.6/47$

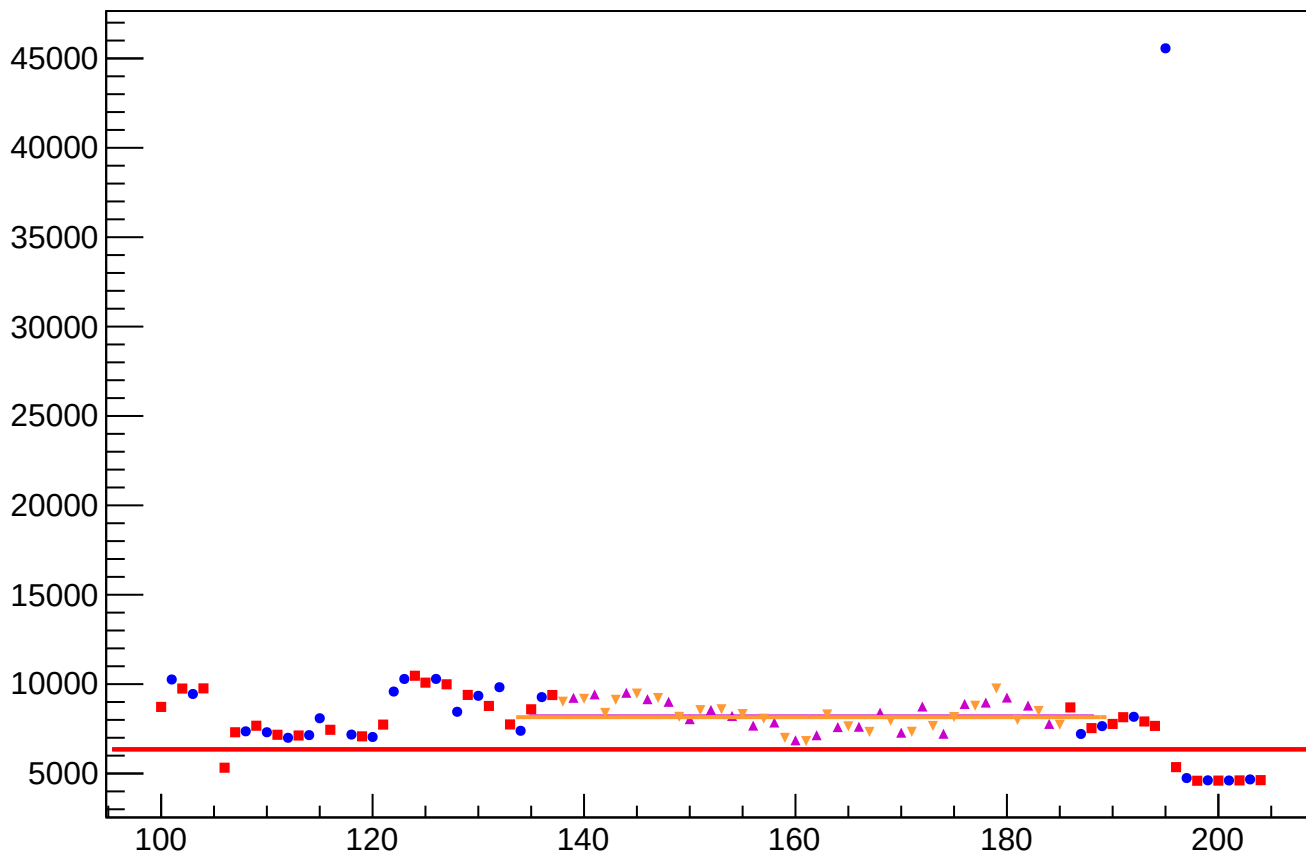
Right: -2.880 ± 1.320 $\chi^2/\text{NDF}: 430.8/54$

In: -2.993 ± 1.395 $\chi^2/\text{NDF}: 256.6/47$

Out: -8.545 ± 1.308 $\chi^2/\text{NDF}: 225.7/54$

All: -5.948 ± 0.954 $\chi^2/\text{NDF}: 490.8/102$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6352.313+/-1.385 χ^2/NDF : 3192420.8/24

Left Out: 8151.489+/-1.356 χ^2/NDF :321803.3/24

Right Out: 6348.497+/-1.264 χ^2/NDF : 2013124.5/29

Left In: 8193.636+/-1.405 χ^2/NDF :338377.6/22

Left: 8171.814+/-0.976 χ^2/NDF : 660646.6/47

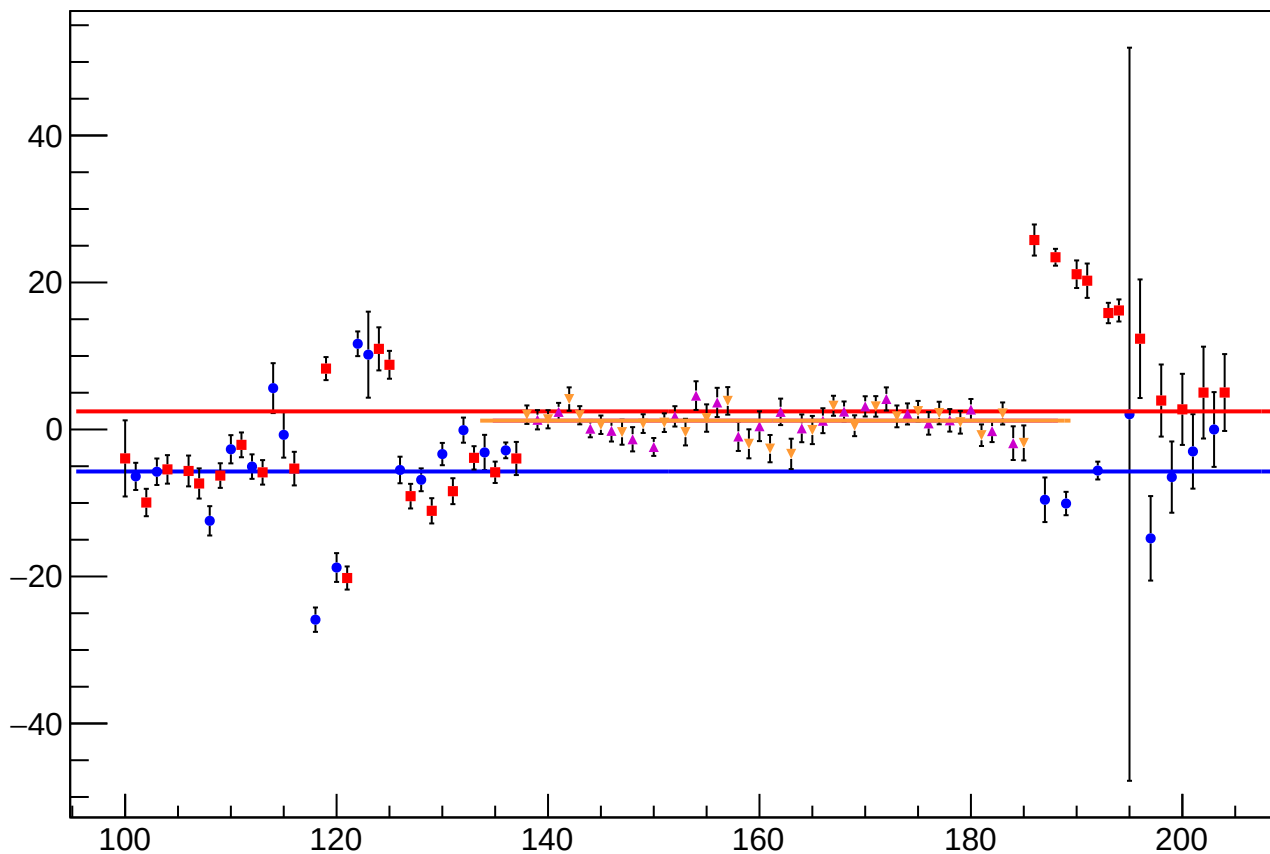
Right: 6350.231+/-0.934 χ^2/NDF : 5205549.5/54

In: 7259.332+/-0.986 χ^2/NDF :4401769.9/47

Out: 7186.529+/-0.925 χ^2/NDF :3280657.4/54

All: 7220.583+/-0.675 χ^2/NDF : 7685326.7/10

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.714 ± 0.391 χ^2/NDF : 369.9/24

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

Right Out: 2.462 ± 0.350 χ^2/NDF : 1408.5/29

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

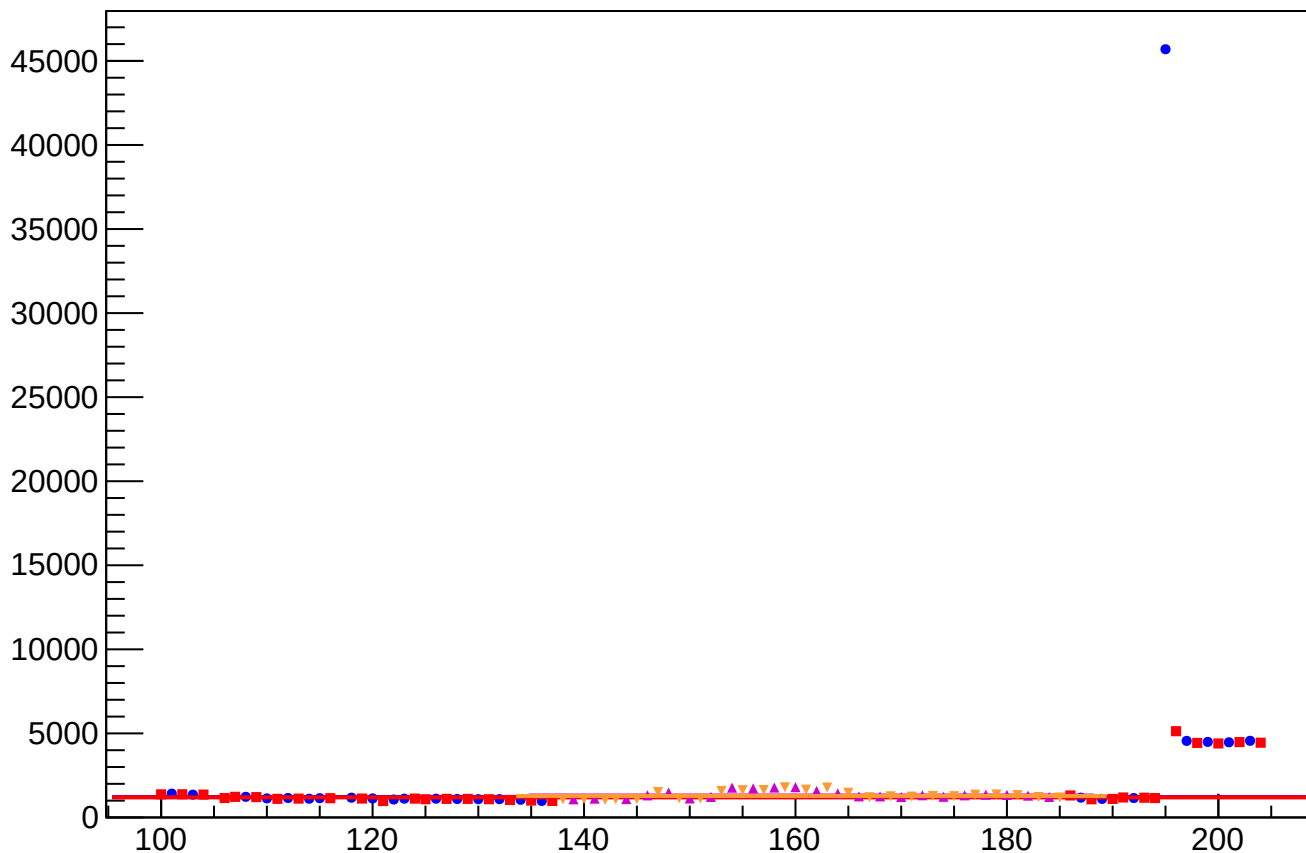
Right: -1.175 ± 0.260 χ^2/NDF : 2021.8/54

In: -1.559 ± 0.247 χ^2/NDF : 589.3/47

Out: 1.742 ± 0.229 χ^2/NDF : 1445.9/54

All: 0.216 ± 0.168 χ^2/NDF : 2131.6/102

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1211.311+/-0.276 χ^2/NDF : 5097321.4/24

Left Out: 1277.916+/-0.214 χ^2/NDF : 878127.9/24

Right Out: 1196.170+/-0.247 χ^2/NDF : 3775374.1/29

Left In: 1305.541+/-0.225 χ^2/NDF : 760450.8/22

Left: 1291.030+/-0.155 χ^2/NDF : 1646499.4/47

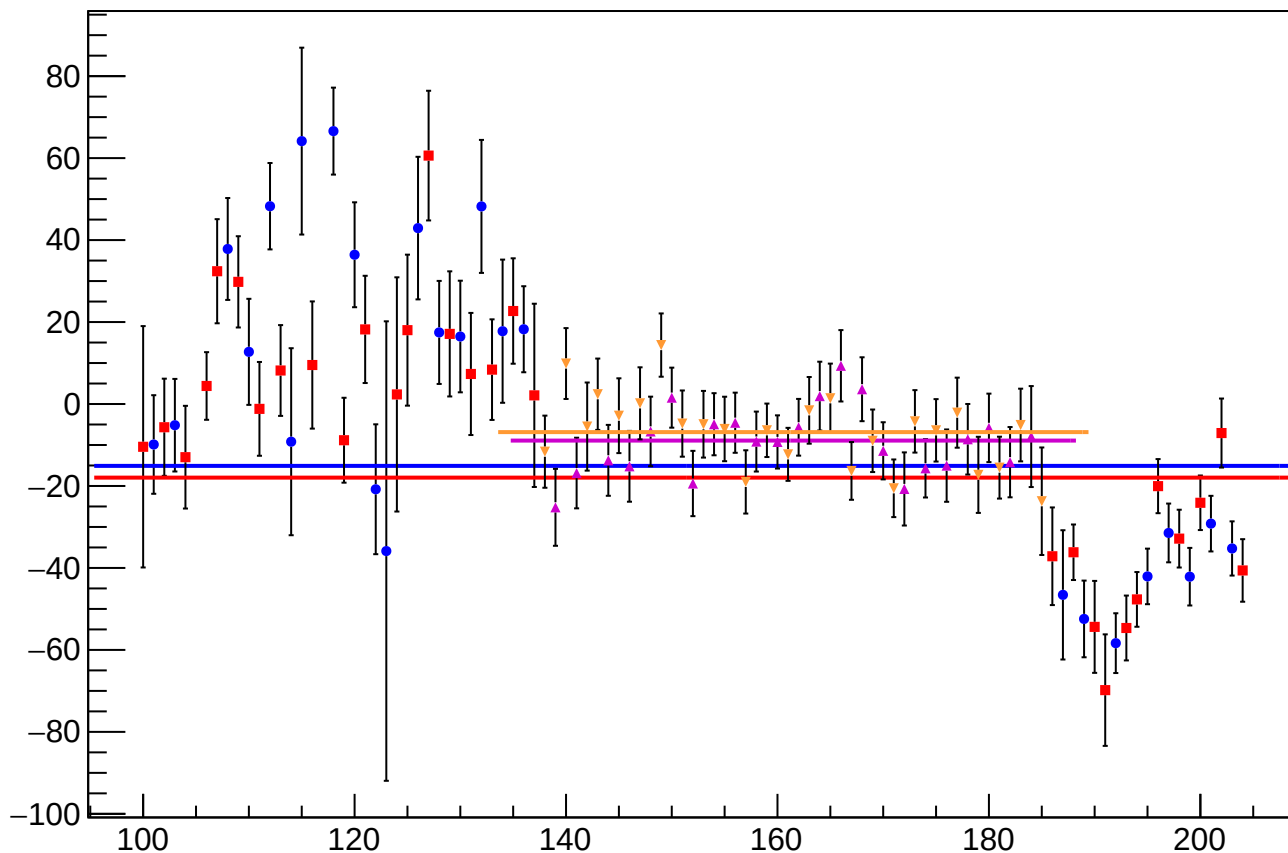
Right: 1202.904+/-0.184 χ^2/NDF : 8874364.3/54

In: 1267.955+/-0.174 χ^2/NDF : 5927754.1/47

Out: 1242.920+/-0.162 χ^2/NDF : 4716053.3/54

All: 1254.493+/-0.119 χ^2/NDF : 10654885.4/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -15.095 ± 2.081 χ^2/NDF : 304.3/24

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

Right Out: -17.961 ± 1.864 χ^2/NDF : 206.7/29

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

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

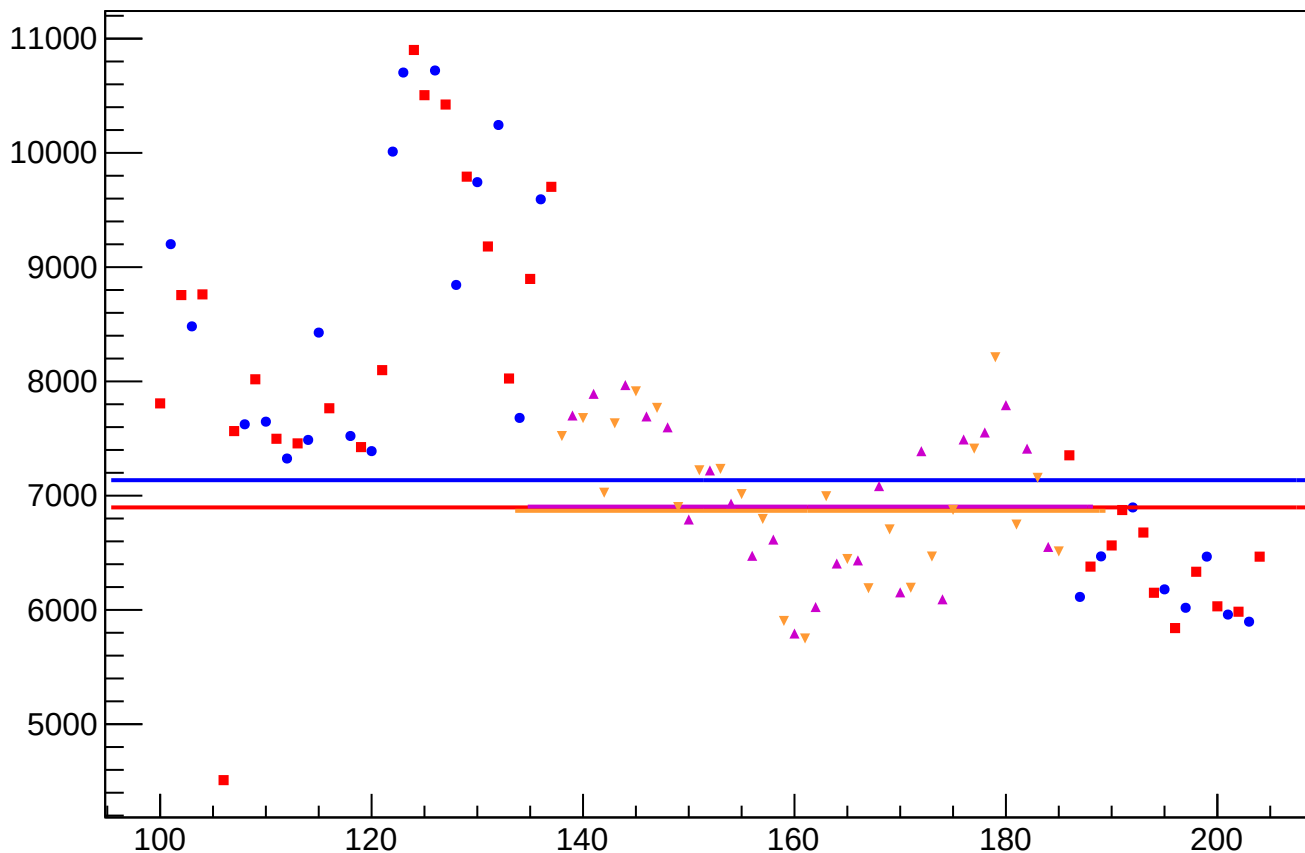
Right: -16.686 ± 1.389 χ^2/NDF : 512.1/54

In: -11.348 ± 1.305 χ^2/NDF : 331.5/47

Out: -11.619 ± 1.221 χ^2/NDF : 255.6/54

All: -11.492 ± 0.891 χ^2/NDF : 587.1/102

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7135.460+/-1.472 χ^2/NDF : 816316.7/24

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

Right Out: 6897.160+/-1.318 χ^2/NDF : 929114.7/29

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

Left: 6885.088+/-0.822 χ^2/NDF : 633306.5/47

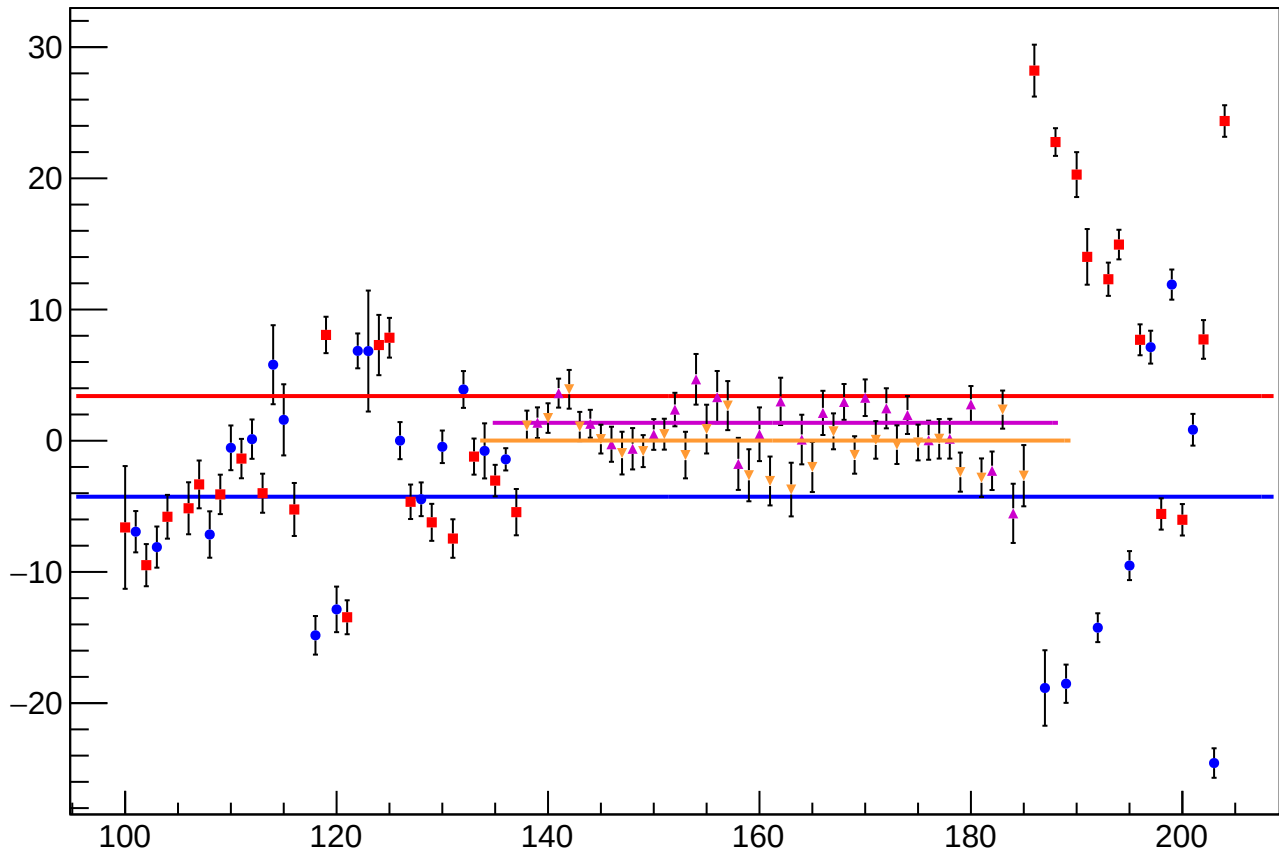
Right: 7003.204+/-0.982 χ^2/NDF : 1759980.1/54

In: 6995.000+/-0.923 χ^2/NDF : 1157229.3/47

Out: 6880.151+/-0.863 χ^2/NDF : 1236301.5/54

All: 6933.766+/-0.630 χ^2/NDF : 2401794.6/100

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.267 ± 0.282 $\chi^2/\text{NDF}: 1110.1/24$

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

Right Out: 3.404 ± 0.266 $\chi^2/\text{NDF}: 1820.3/29$

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

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

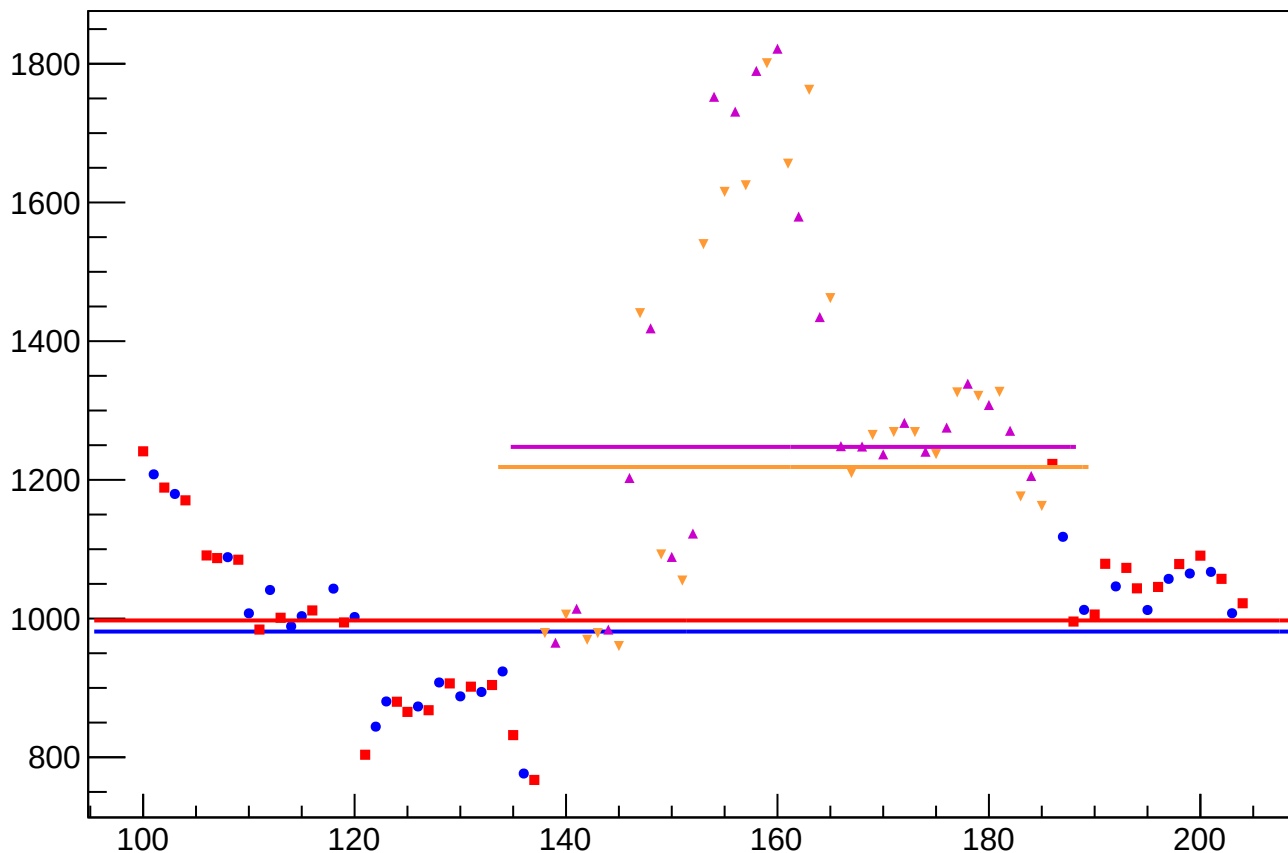
Right: -0.203 ± 0.193 $\chi^2/\text{NDF}: 3322.1/54$

In: -1.674 ± 0.207 $\chi^2/\text{NDF}: 1332.0/47$

Out: 1.856 ± 0.196 $\chi^2/\text{NDF}: 1929.6/54$

All: 0.190 ± 0.142 $\chi^2/\text{NDF}: 3414.9/102$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 981.266 ± 0.199 χ^2/NDF : 309455.4/24

Left Out: 1218.543 ± 0.205 χ^2/NDF : 1265847.5/24

Right Out: 997.278 ± 0.188 χ^2/NDF : 322773.8/29

Left In: 1247.538 ± 0.216 χ^2/NDF : 1073390.3/22

Left: 1232.283 ± 0.149 χ^2/NDF : 2348717.2/47

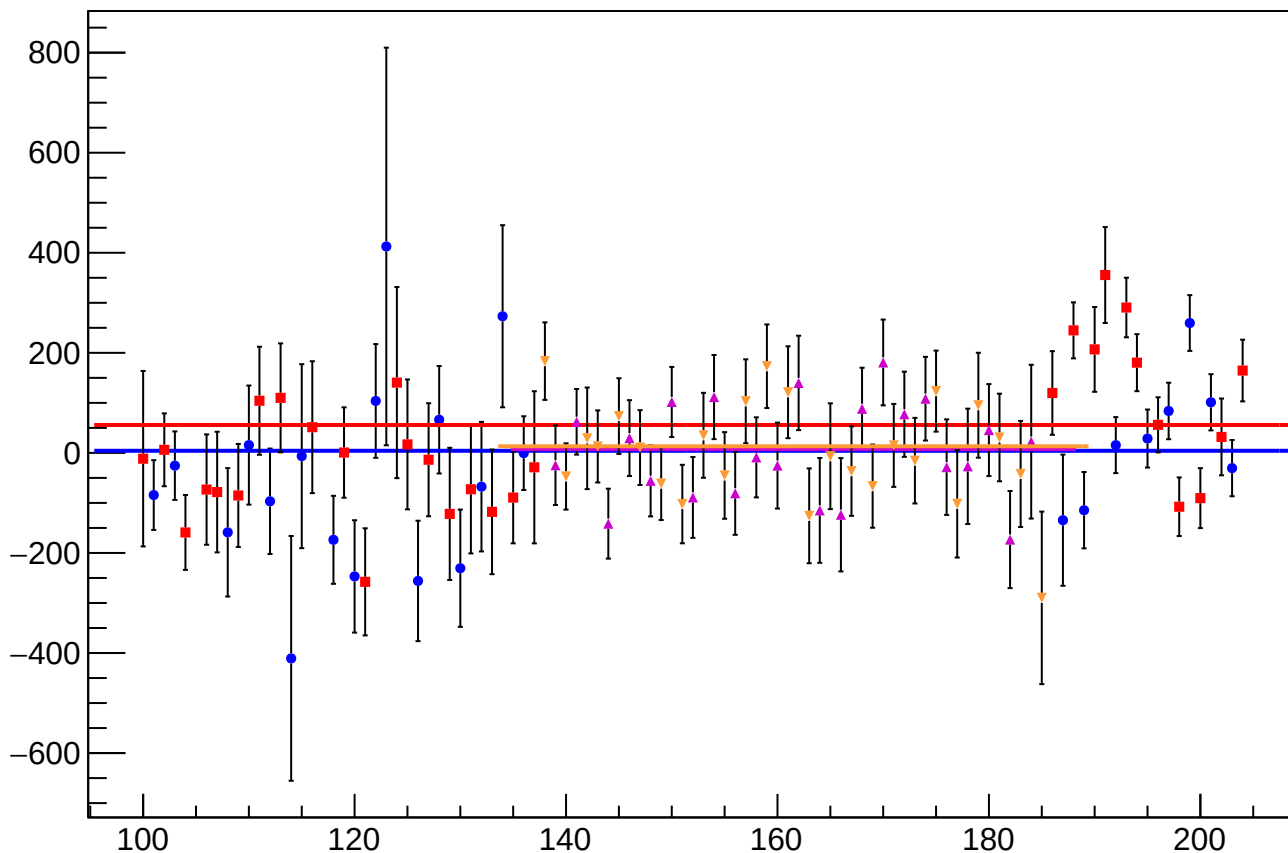
Right: 989.749 ± 0.137 χ^2/NDF : 635642.8/54

In: 1103.824 ± 0.147 χ^2/NDF : 2202885.4/47

Out: 1098.308 ± 0.139 χ^2/NDF : 2221617.9/54

All: 1100.911 ± 0.101 χ^2/NDF : 4425251.3/100

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 4.227 $\pm$ 16.675 χ^2/NDF : 59.8/24

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

Right Out: 55.749 $\pm$ 15.384 χ^2/NDF : 93.2/29

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

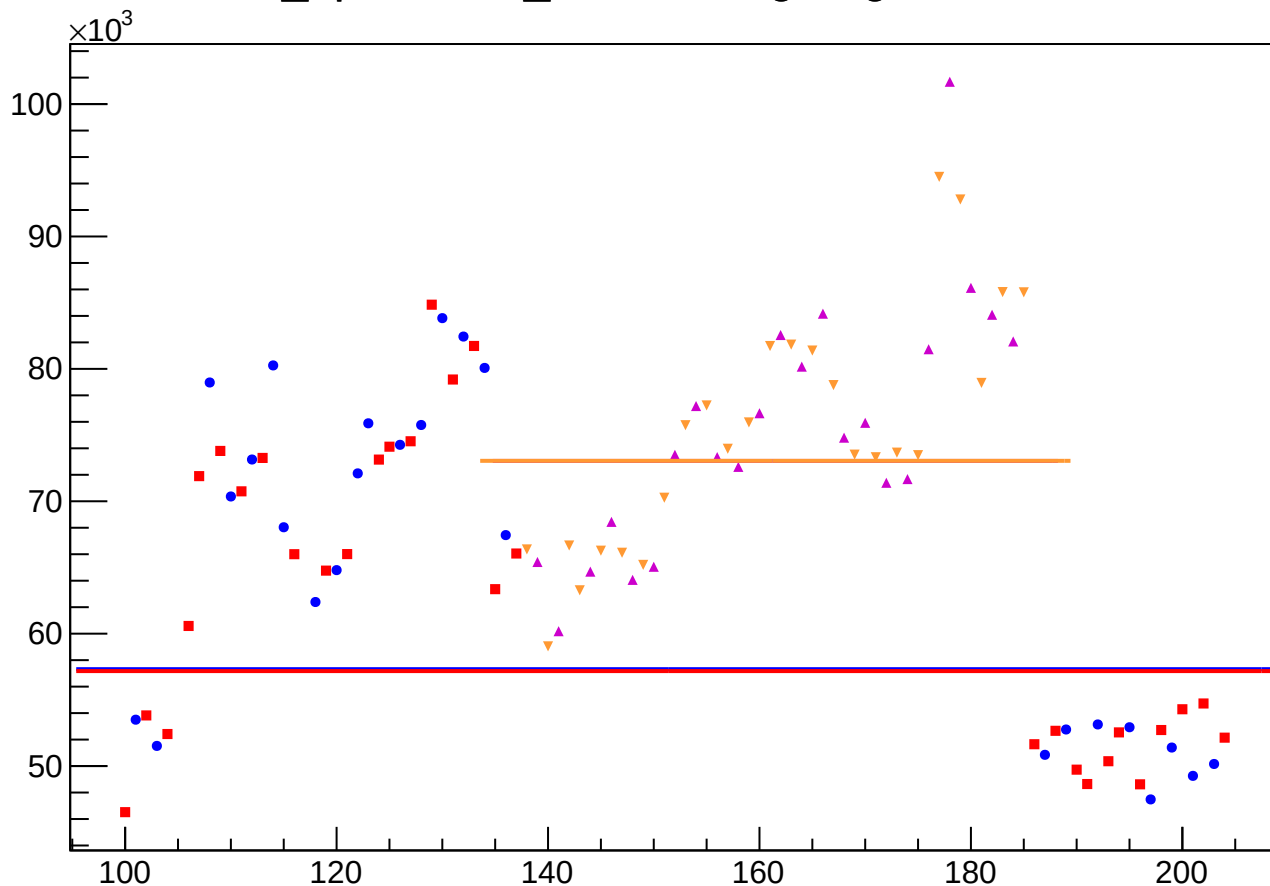
Right: 32.060 $\pm$ 11.307 χ^2/NDF : 158.1/54

In: 5.825 $\pm$ 12.128 χ^2/NDF : 87.9/47

Out: 36.776 $\pm$ 11.450 χ^2/NDF : 123.4/54

All: 22.189 $\pm$ 8.326 χ^2/NDF : 214.7/102

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 57317.835 ± 11.791 $\chi^2/\text{NDF}: 761246.1/24$

Left Out: 73054.401 ± 12.124 $\chi^2/\text{NDF}: 473050.9/24$

Right Out: 57173.447 ± 10.878 $\chi^2/\text{NDF}: 723476.6/29$

Left In: 73045.500 ± 12.496 $\chi^2/\text{NDF}: 463525.5/22$

Left: 73050.085 ± 8.701 $\chi^2/\text{NDF}: 936576.6/47$

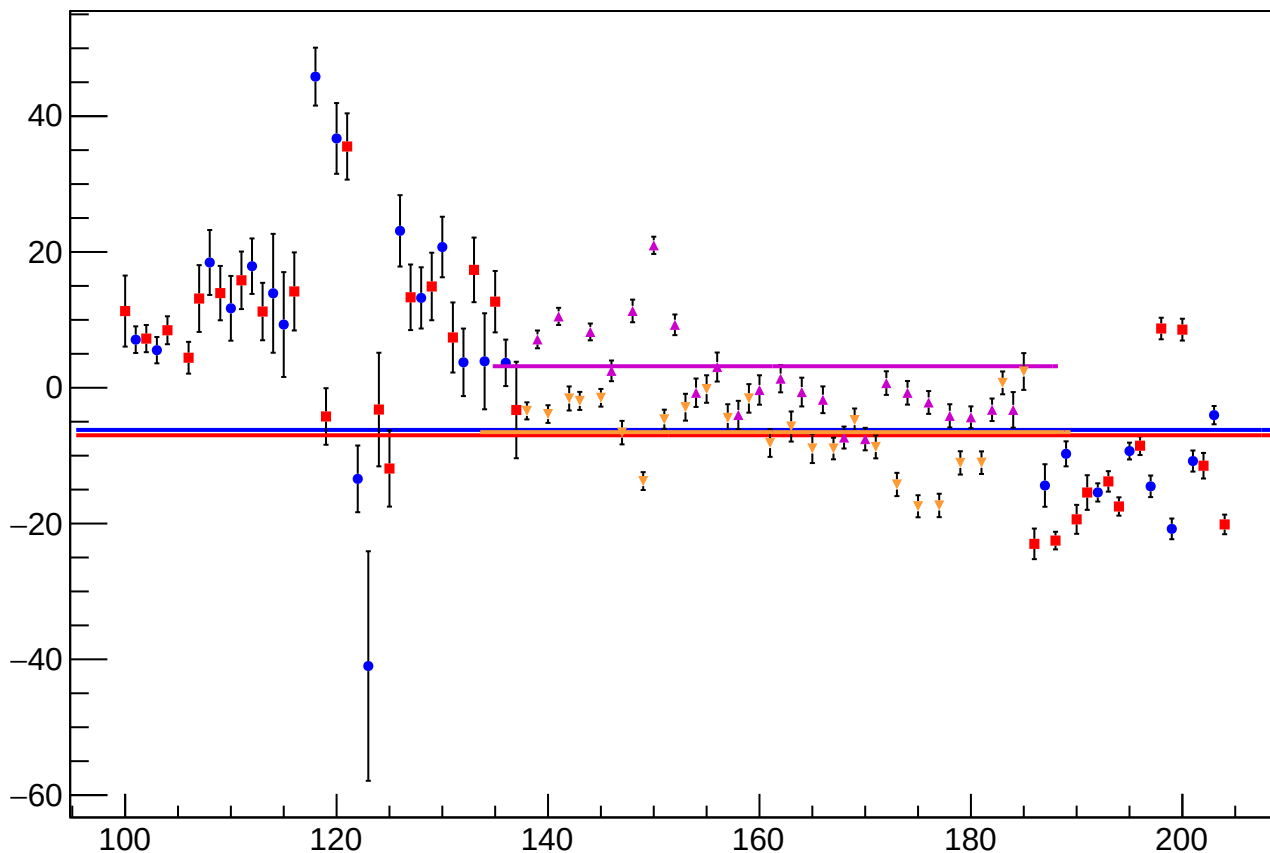
Right: 57239.834 ± 7.995 $\chi^2/\text{NDF}: 1484803.7/54$

In: 64725.716 ± 8.576 $\chi^2/\text{NDF}: 2062792.3/47$

Out: 64255.975 ± 8.097 $\chi^2/\text{NDF}: 2147084.5/54$

All: 64477.357 ± 5.887 $\chi^2/\text{NDF}: 4211463.1/100$

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -6.209 $\pm$ 0.471 χ^2 /NDF: 685.0/24

Left Out: -6.537 $\pm$ 0.332 χ^2 /NDF:252.7/24

Right Out: -6.998 $\pm$ 0.424 χ^2 /NDF: 1016.6/29

Left In: 3.171 $\pm$ 0.346 χ^2 /NDF:487.3/22

Left: -1.892 $\pm$ 0.240 χ^2 /NDF: 1149.5/47

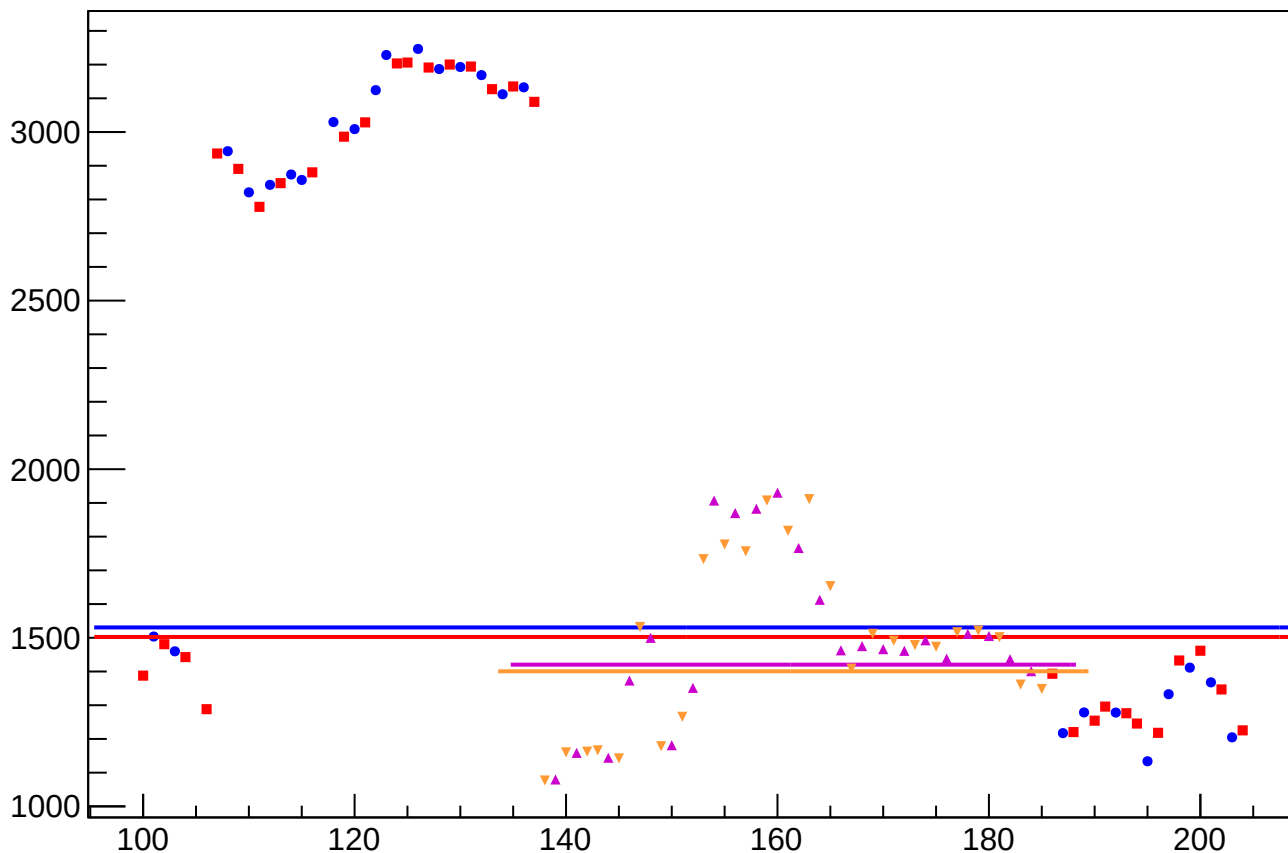
Right: -6.644 $\pm$ 0.315 χ^2 /NDF: 1703.2/54

In: -0.127 $\pm$ 0.279 χ^2 /NDF:1430.1/47

Out: -6.712 $\pm$ 0.261 χ^2 /NDF:1270.1/54

All: -3.634 $\pm$ 0.191 χ^2 /NDF: 2996.9/102

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1530.704 ± 0.333

χ^2/NDF : 3307727.7/24

Left Out: 1400.637 ± 0.235

χ^2/NDF : 1037921.6/24

Right Out: 1502.429 ± 0.300

χ^2/NDF : 3365944.7/29

Left In: 1420.285 ± 0.245

χ^2/NDF : 905186.2/22

Left: 1410.037 ± 0.169 χ^2/NDF : 1946462.8/47

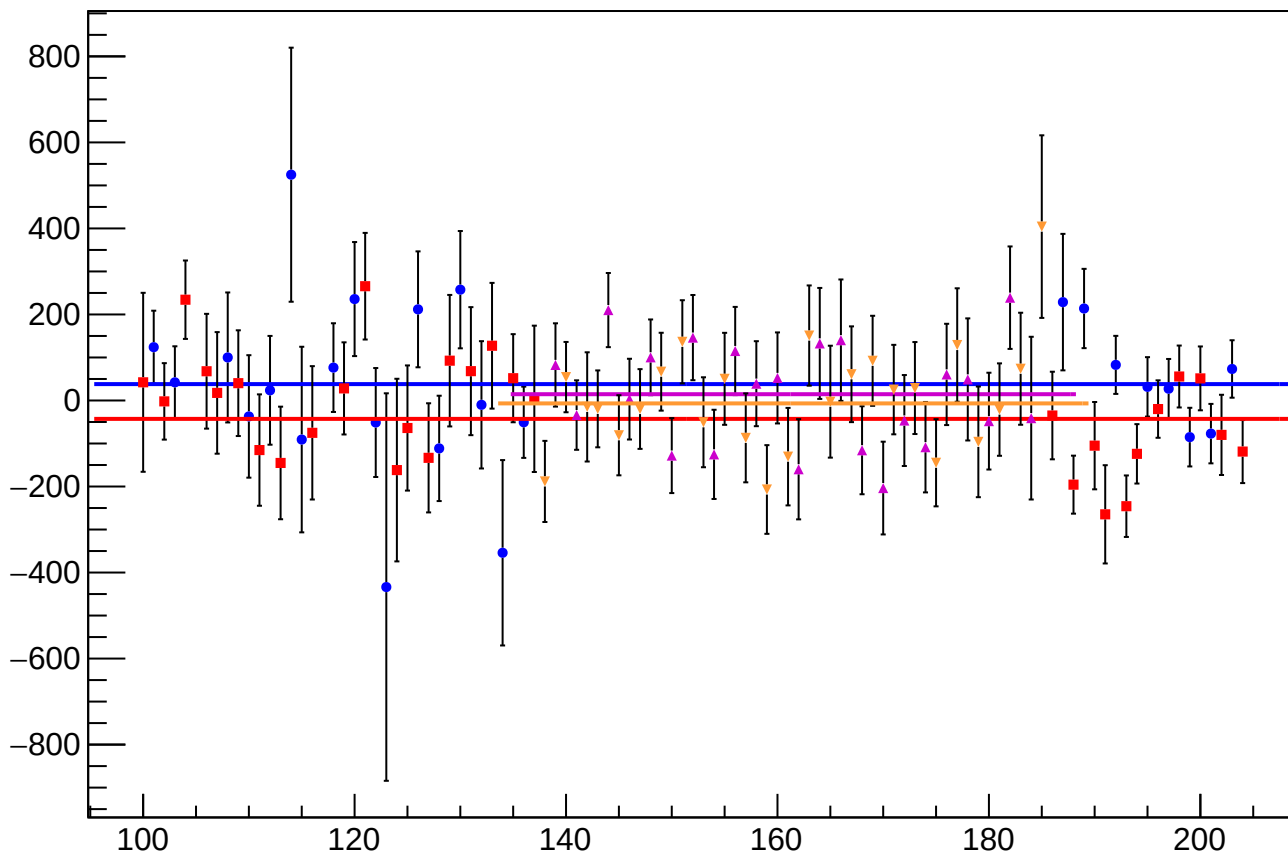
Right: 1515.105 ± 0.223 χ^2/NDF : 6677656.5/54

In: 1459.102 ± 0.197 χ^2/NDF : 4284330.6/47

Out: 1439.281 ± 0.185 χ^2/NDF : 4475321.9/54

All: 1448.545 ± 0.135 χ^2/NDF : 8765029.2/10

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 38.086 $\pm$ 19.917 χ^2/NDF : 30.7/24

Left Out: -6.789 $\pm$ 21.213 χ^2/NDF : 24.7/24

Right Out: -42.755 $\pm$ 18.423 χ^2/NDF : 46.6/29

Left In: 14.611 $\pm$ 21.846 χ^2/NDF : 29.8/22

Left: 3.596 $\pm$ 15.219 χ^2/NDF : 55.0/47

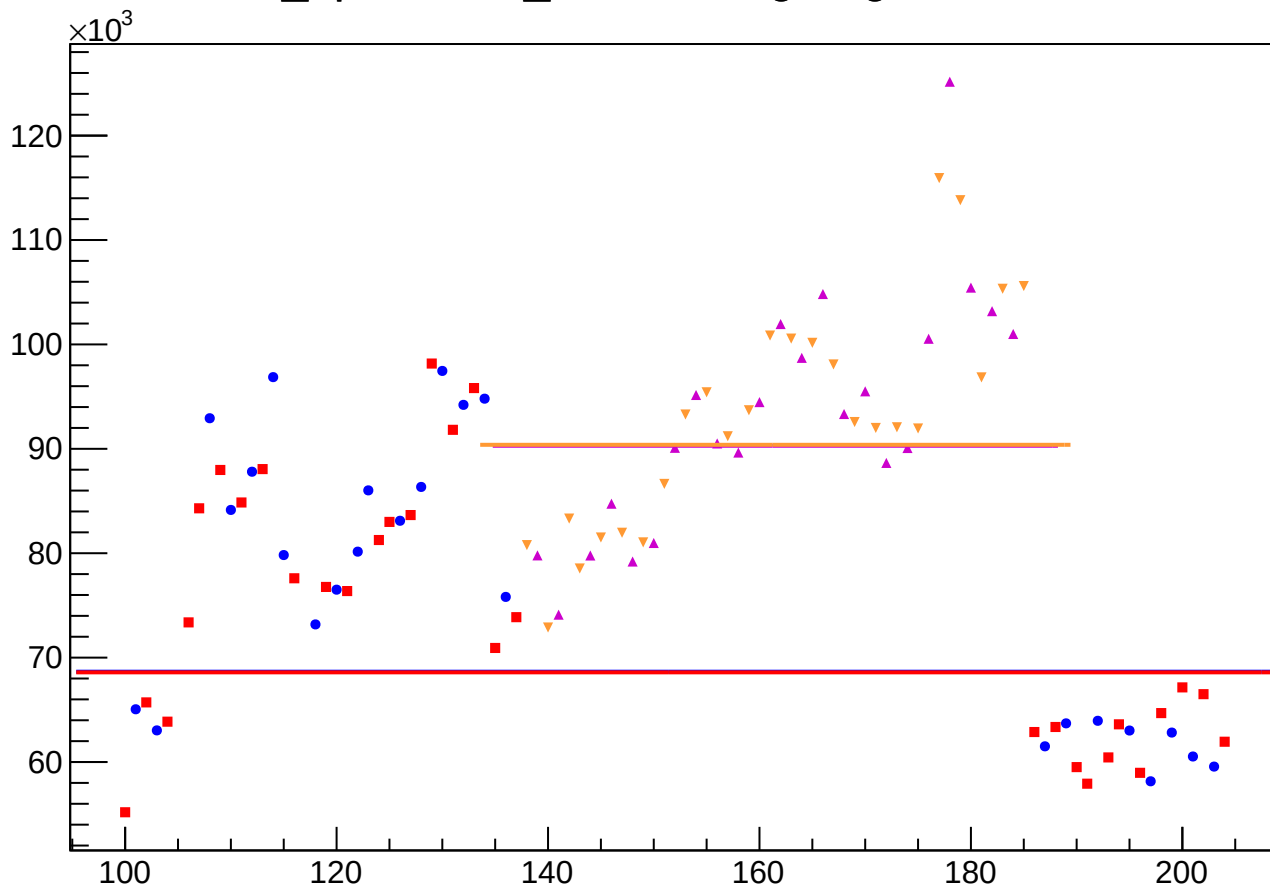
Right: -5.478 $\pm$ 13.524 χ^2/NDF : 86.2/54

In: 27.430 $\pm$ 14.718 χ^2/NDF : 61.2/47

Out: -27.291 $\pm$ 13.910 χ^2/NDF : 72.9/54

All: -1.474 $\pm$ 10.109 χ^2/NDF : 141.4/102

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 68651.997 ± 14.083

$\chi^2/\text{NDF}: 604083.9/24$

Left Out: 90384.853 ± 15.000

$\chi^2/\text{NDF}: 461648.2/24$

Right Out: 68589.783 ± 13.027

$\chi^2/\text{NDF}: 599699.9/29$

Left In: 90293.591 ± 15.448

$\chi^2/\text{NDF}: 461337.5/22$

Left: 90340.563 ± 10.761

$\chi^2/\text{NDF}: 923003.7/47$

Right: 68618.470 ± 9.563

$\chi^2/\text{NDF}: 1203794.3/54$

In: 78475.036 ± 10.407

$\chi^2/\text{NDF}: 2137273.3/47$

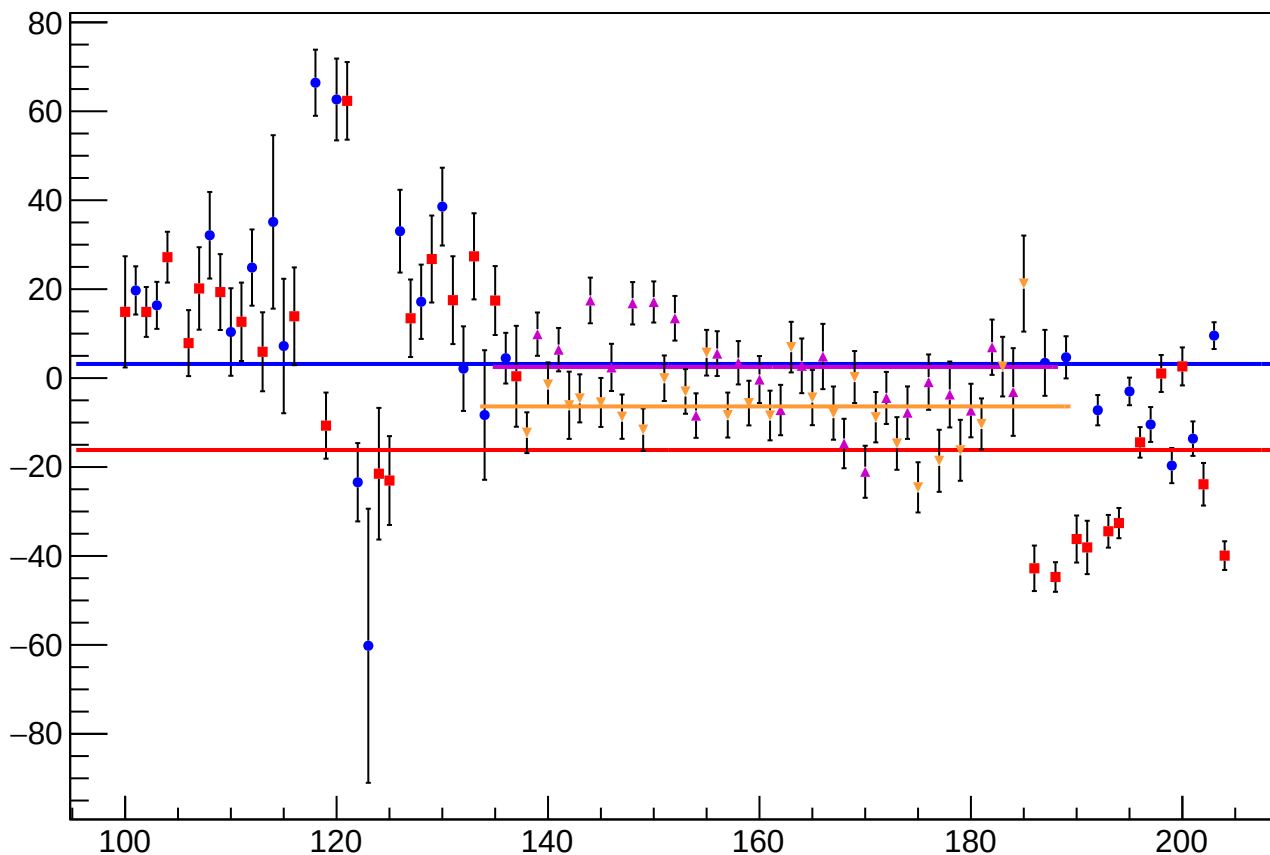
Out: 77960.818 ± 9.836

$\chi^2/\text{NDF}: 2264835.2/54$

All: 78203.419 ± 7.148

$\chi^2/\text{NDF}: 4403398.1/100$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 3.178 ± 1.118 χ^2/NDF : 273.8/24

Left Out: -6.370 ± 1.124 χ^2/NDF : 45.5/24

Right Out: -16.167 ± 1.026 χ^2/NDF : 597.5/29

Left In: 2.501 ± 1.156 χ^2/NDF : 78.4/22

Left: -2.059 ± 0.806 χ^2/NDF : 154.1/47

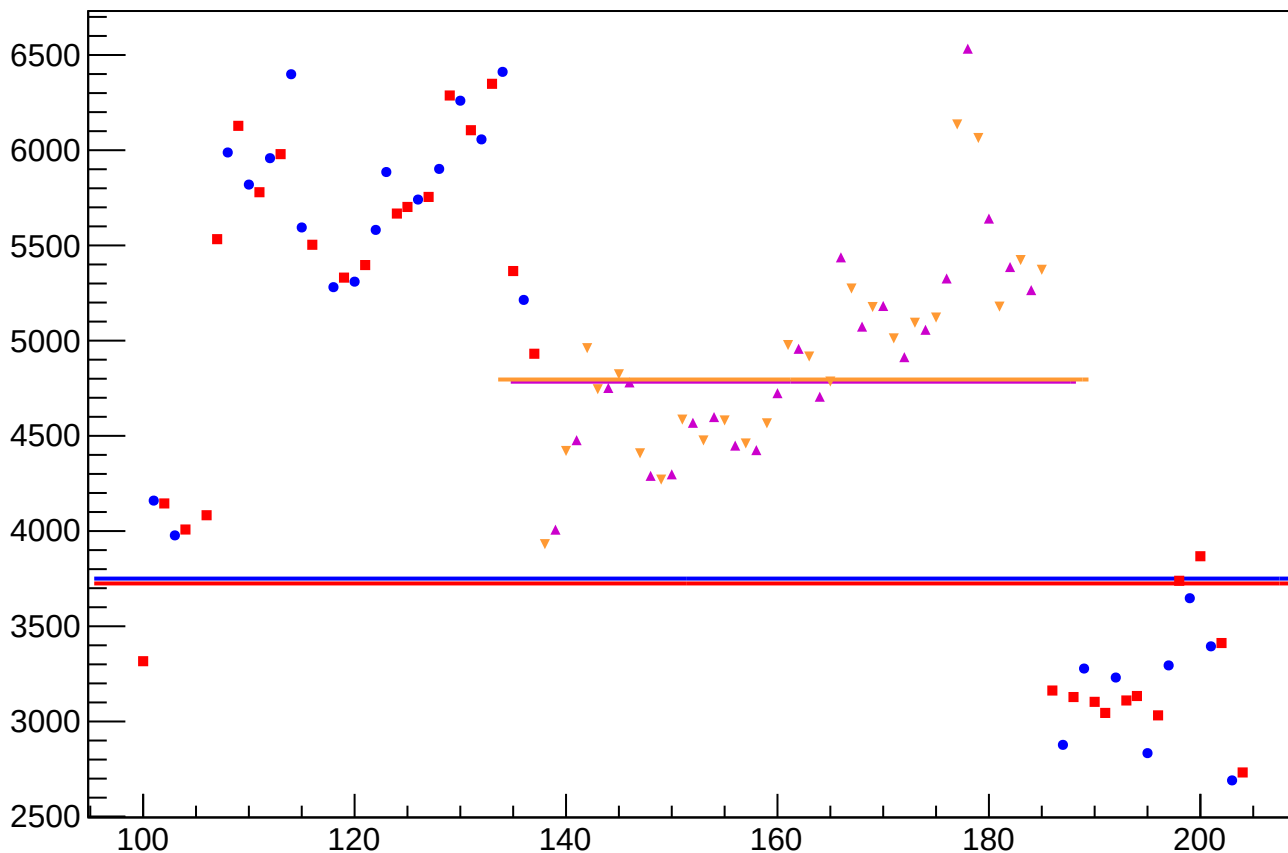
Right: -7.329 ± 0.756 χ^2/NDF : 1033.8/54

In: 2.851 ± 0.804 χ^2/NDF : 352.4/47

Out: -11.714 ± 0.758 χ^2/NDF : 684.4/54

All: -4.862 ± 0.551 χ^2/NDF : 1210.7/102

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3750.420+/-0.791 χ^2/NDF : 1913284.4/24

Left Out: 4795.847+/-0.795 χ^2/NDF : 361249.7/24

Right Out: 3724.894+/-0.725 χ^2/NDF : 1987460.2/29

Left In: 4784.434+/-0.817 χ^2/NDF : 357507.2/22

Left: 4790.301+/-0.570 χ^2/NDF : 718857.1/47

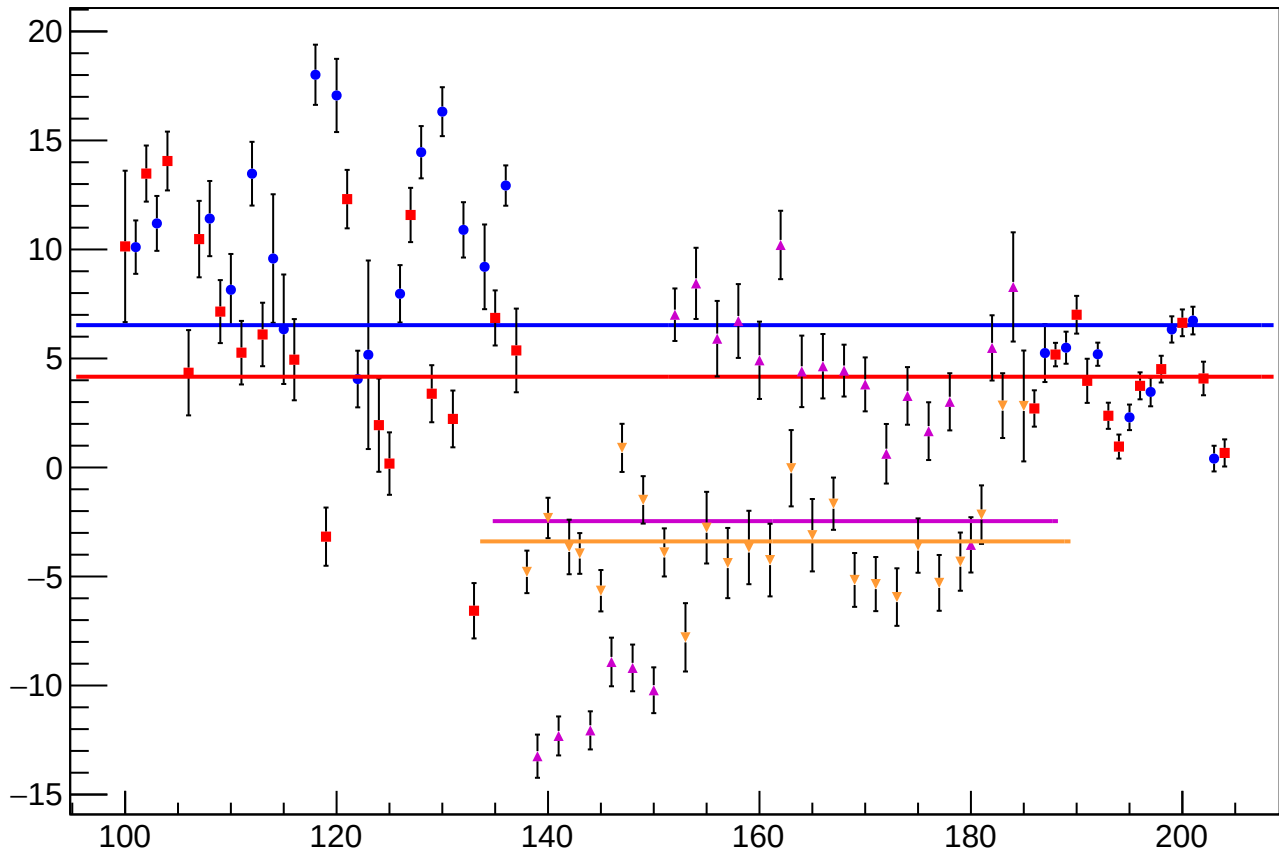
Right: 3736.556+/-0.535 χ^2/NDF : 3901310.4/54

In: 4250.413+/-0.568 χ^2/NDF : 3097326.2/47

Out: 4211.623+/-0.536 χ^2/NDF : 3339425.7/54

All: 4229.873+/-0.390 χ^2/NDF : 6439218.3/100

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 6.528 ± 0.190 $\chi^2/\text{NDF}: 541.2/24$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 4.163 ± 0.171 $\chi^2/\text{NDF}: 428.2/29$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

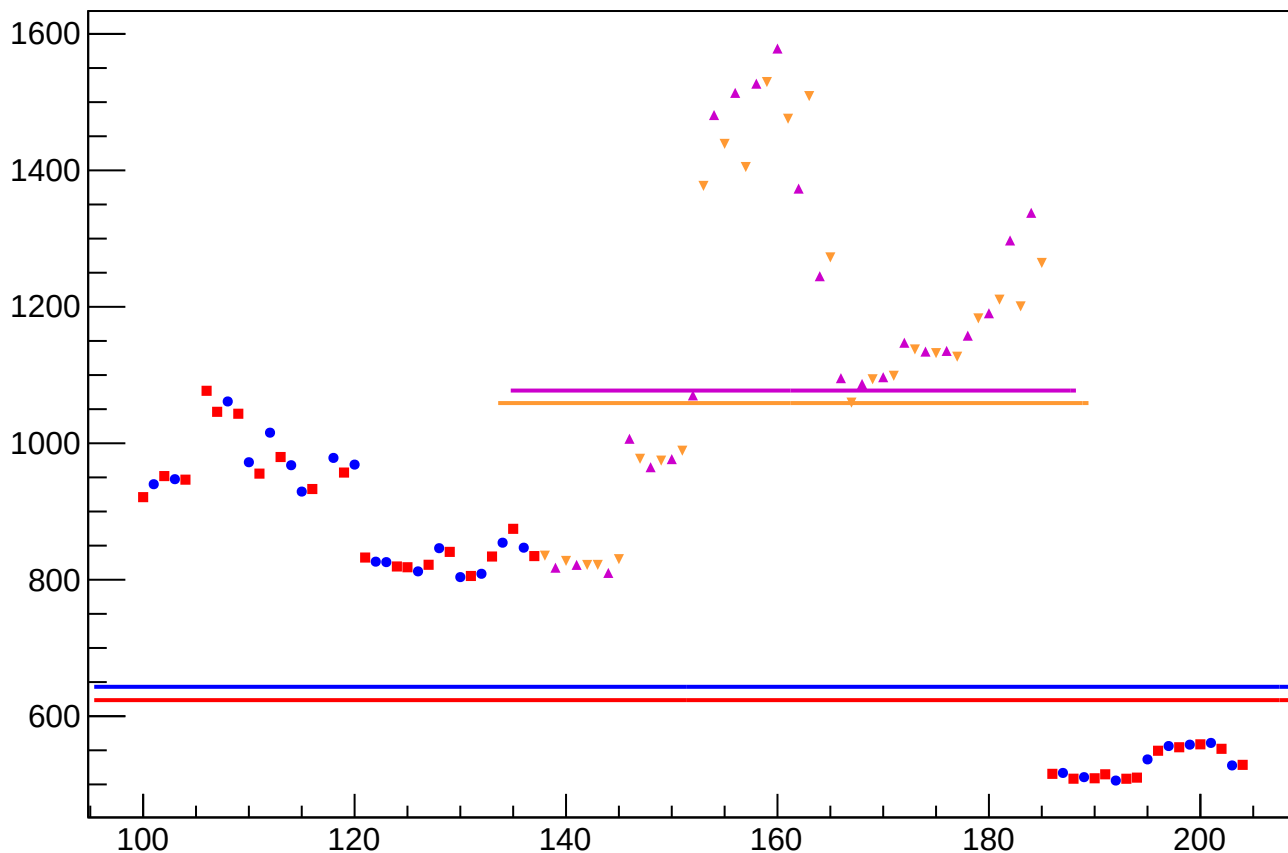
Right: 5.222 ± 0.127 $\chi^2/\text{NDF}: 1054.9/54$

In: 3.466 ± 0.154 $\chi^2/\text{NDF}: 2231.4/47$

Out: 1.783 ± 0.142 $\chi^2/\text{NDF}: 1119.9/54$

All: 2.552 ± 0.104 $\chi^2/\text{NDF}: 3415.9/102$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 643.076 $\pm$ 0.134 χ^2/NDF : 1602974.3/24

Left Out: 1058.941 $\pm$ 0.178 χ^2/NDF : 1403222.2/24

Right Out: 623.535 $\pm$ 0.121 χ^2/NDF : 1943351.8/29

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

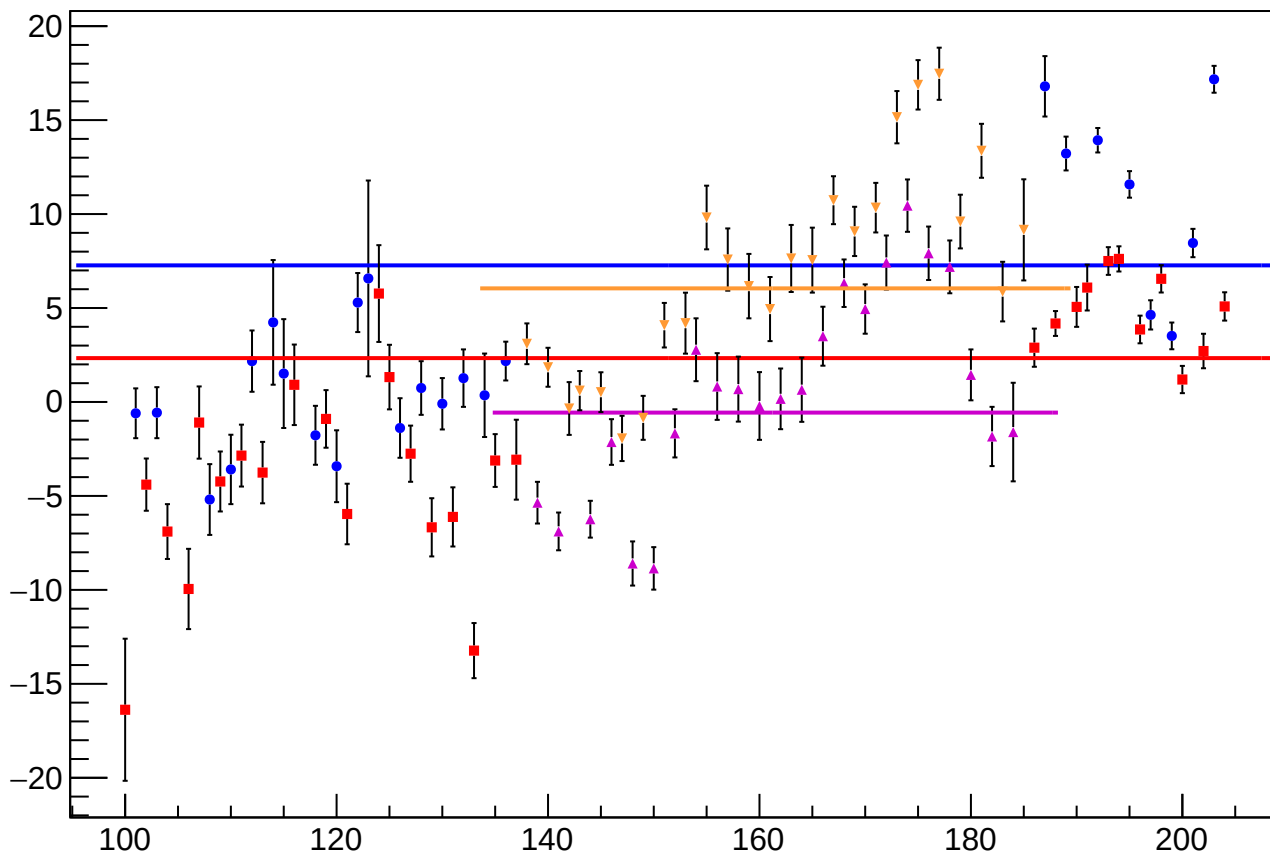
Right: 632.284 $\pm$ 0.090 χ^2/NDF : 3558004.9/54

In: 791.002 $\pm$ 0.109 χ^2/NDF : 6440569.7/47

Out: 760.739 $\pm$ 0.100 χ^2/NDF : 7427505.6/54

All: 774.574 $\pm$ 0.074 χ^2/NDF : 13909837.0/10

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 7.269 $\pm$ 0.225 χ^2/NDF : 811.1/24

Left Out: 6.045 $\pm$ 0.272 χ^2/NDF : 430.8/24

Right Out: 2.334 $\pm$ 0.204 χ^2/NDF : 596.1/29

Left In: -0.566 $\pm$ 0.284 χ^2/NDF : 417.0/22

Left: 2.888 $\pm$ 0.196 χ^2/NDF : 1130.7/47

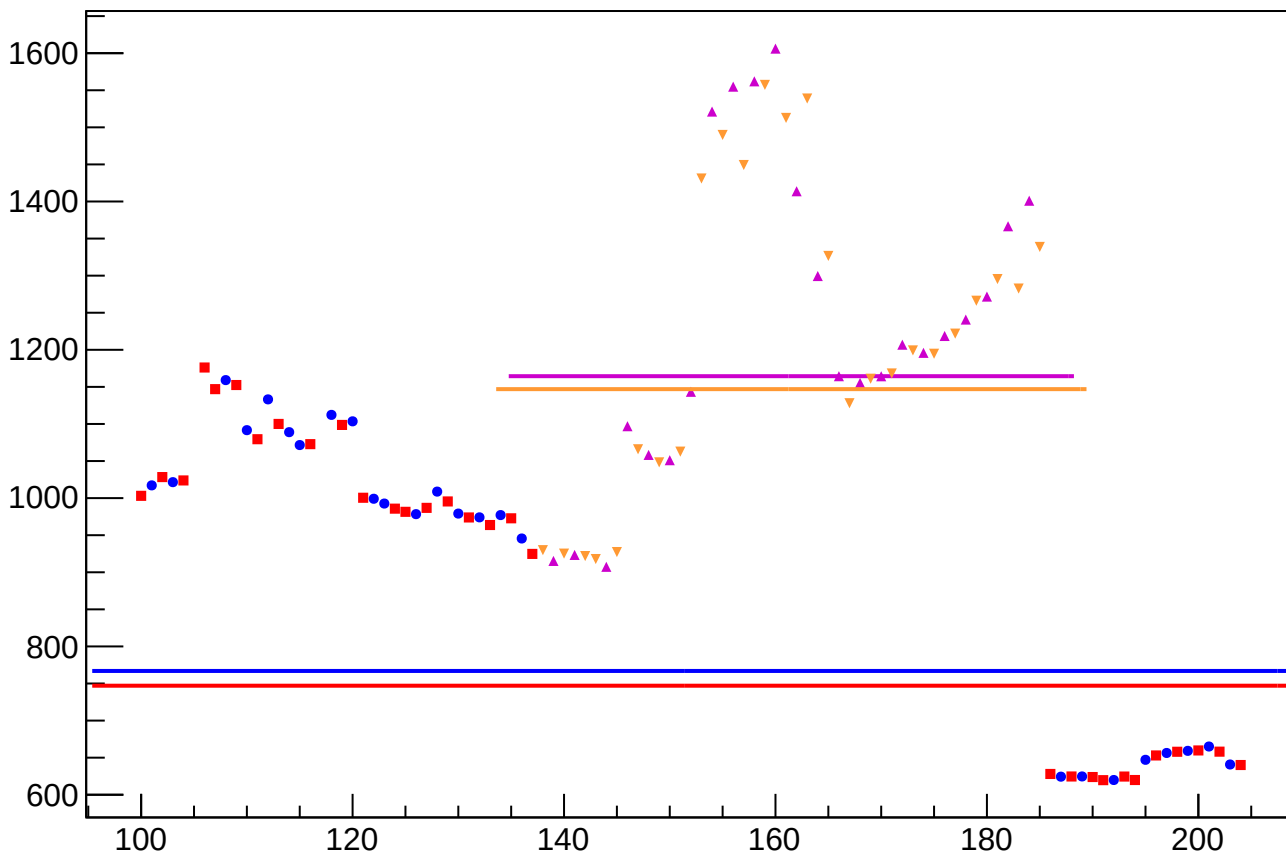
Right: 4.553 $\pm$ 0.151 χ^2/NDF : 1671.4/54

In: 4.246 $\pm$ 0.176 χ^2/NDF : 1695.1/47

Out: 3.668 $\pm$ 0.163 χ^2/NDF : 1146.4/54

All: 3.934 $\pm$ 0.120 χ^2/NDF : 2847.3/102

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 766.936 ± 0.159 $\chi^2/\text{NDF}: 1304503.4/24$

Left Out: 1146.960 ± 0.192 $\chi^2/\text{NDF}: 1045761.4/24$

Right Out: 747.038 ± 0.144 $\chi^2/\text{NDF}: 1566157.5/29$

Left In: 1164.432 ± 0.201 $\chi^2/\text{NDF}: 944112.0/22$

Left: 1155.305 ± 0.139 $\chi^2/\text{NDF}: 1993824.0/47$

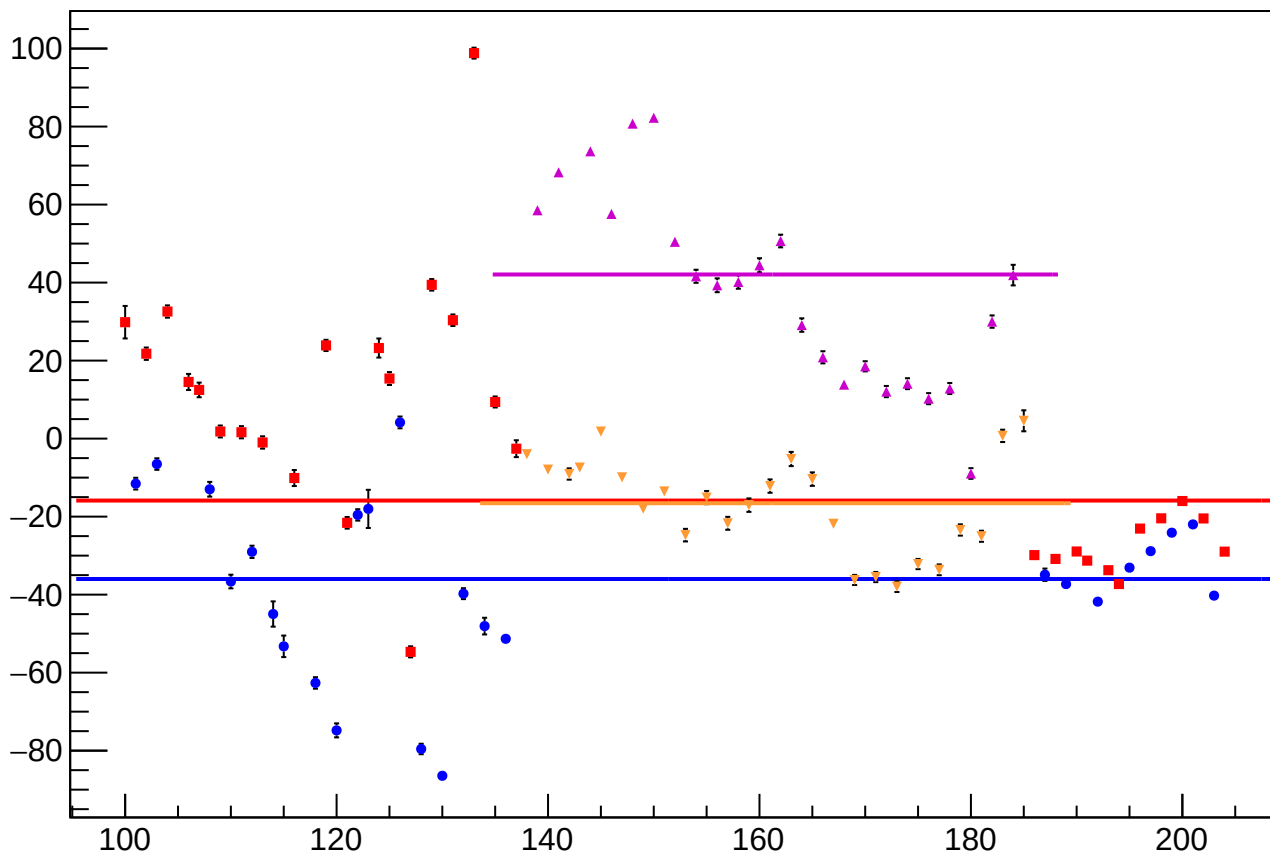
Right: 755.986 ± 0.107 $\chi^2/\text{NDF}: 2879252.6/54$

In: 920.309 ± 0.125 $\chi^2/\text{NDF}: 4652767.5/47$

Out: 890.856 ± 0.115 $\chi^2/\text{NDF}: 5387358.3/54$

All: 904.407 ± 0.085 $\chi^2/\text{NDF}: 10070198.9/10$

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -35.990 ± 0.222 χ^2/NDF : 6200.1/24

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: -15.879 ± 0.200 χ^2/NDF : 17255.5/29

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.318 ± 0.199 χ^2/NDF : 31846.5/47

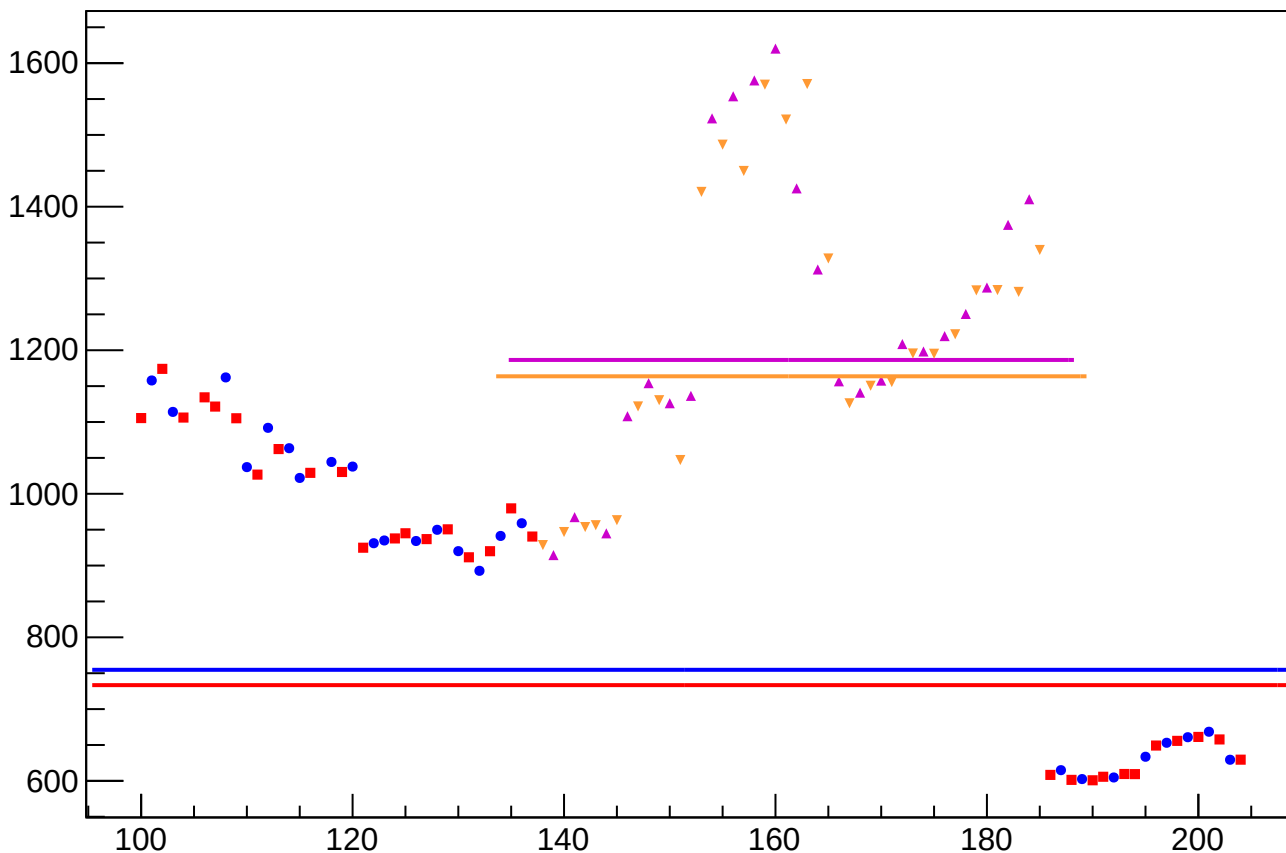
Right: -24.899 ± 0.148 χ^2/NDF : 27996.2/54

In: -7.090 ± 0.176 χ^2/NDF : 60459.6/47

Out: -16.117 ± 0.162 χ^2/NDF : 19190.8/54

All: -11.981 ± 0.119 χ^2/NDF : 81077.3/102

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 754.748 ± 0.157 χ^2/NDF : 1316302.9/24

Left Out: 1163.691 ± 0.195 χ^2/NDF : 936079.1/24

Right Out: 733.396 ± 0.141 χ^2/NDF : 1579705.0/29

Left In: 1186.476 ± 0.204 χ^2/NDF : 833420.3/22

Left: 1174.525 ± 0.141 χ^2/NDF : 1776015.7/47

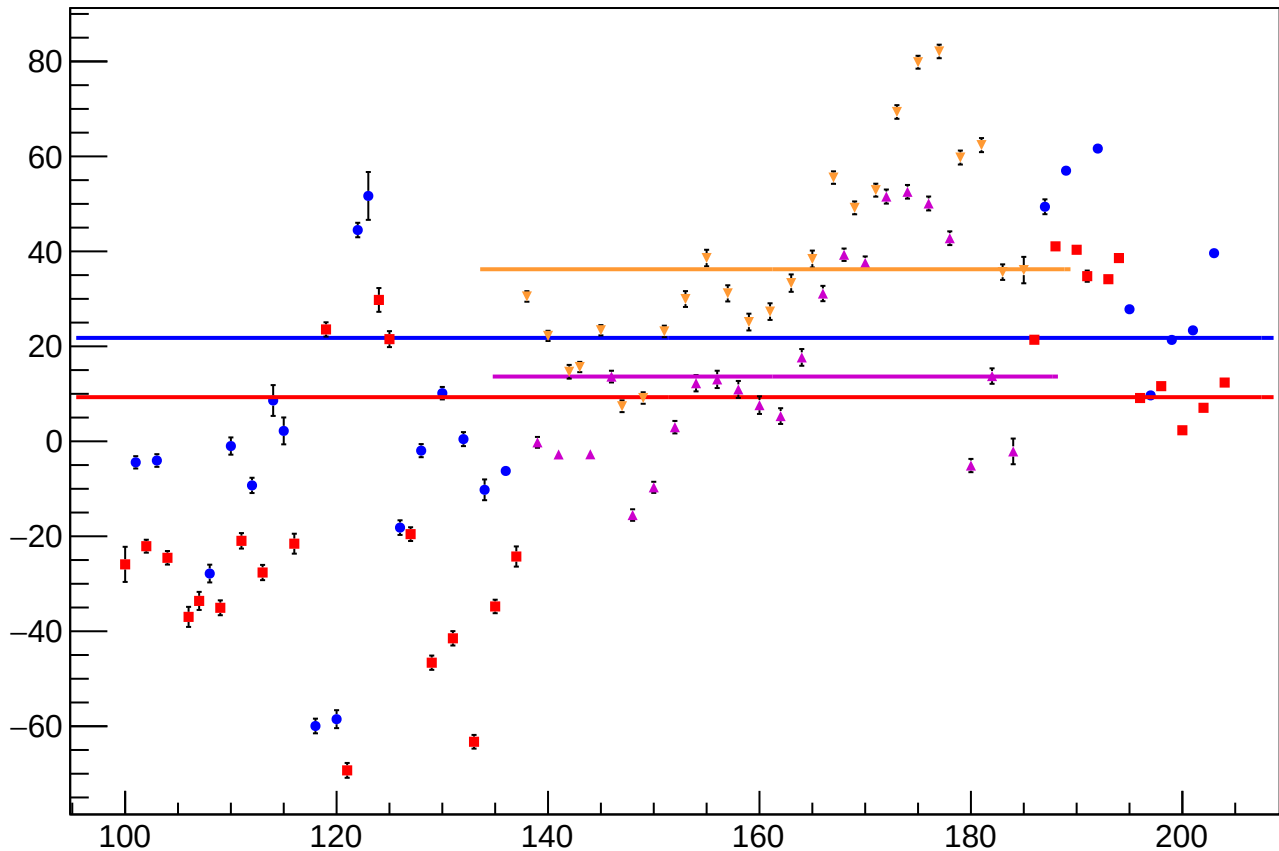
Right: 742.973 ± 0.105 χ^2/NDF : 2906244.9/54

In: 914.571 ± 0.124 χ^2/NDF : 4958933.1/47

Out: 881.949 ± 0.114 χ^2/NDF : 5715857.9/54

All: 896.895 ± 0.084 χ^2/NDF : 10712067.2/10

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 21.779 $\pm$ 0.219 χ^2/NDF : 16124.6/24

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

Right Out: 9.298 $\pm$ 0.198 χ^2/NDF : 20882.2/29

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

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

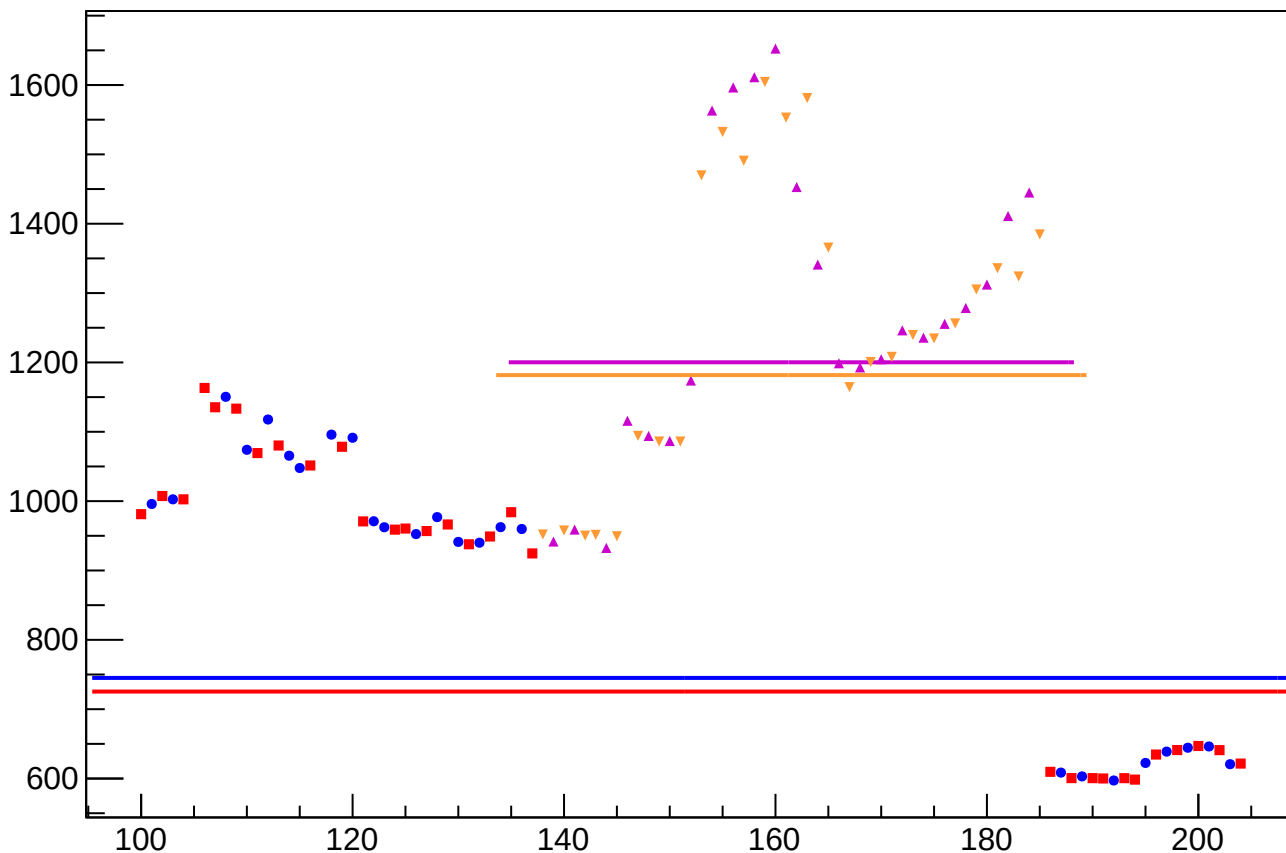
Right: 14.907 $\pm$ 0.147 χ^2/NDF : 38793.5/54

In: 18.857 $\pm$ 0.175 χ^2/NDF : 21798.0/47

Out: 18.280 $\pm$ 0.162 χ^2/NDF : 32850.7/54

All: 18.545 $\pm$ 0.119 χ^2/NDF : 54654.6/102

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 745.103 $\pm$ 0.155 χ^2 /NDF: 1379451.9/24

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 725.426 $\pm$ 0.140 χ^2 /NDF: 1648045.2/29

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

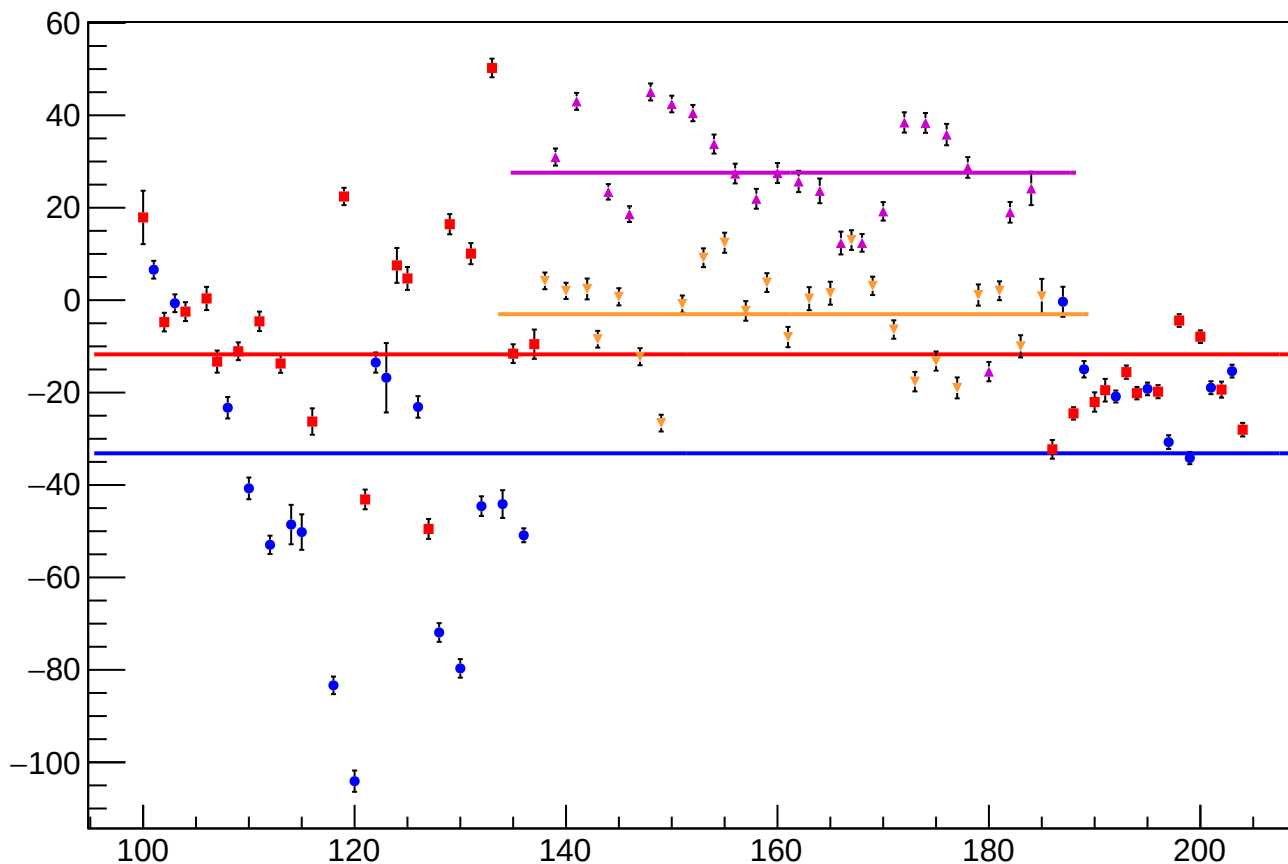
Right: 734.269 $\pm$ 0.104 χ^2 /NDF: 3036378.6/54

In: 908.463 $\pm$ 0.124 χ^2 /NDF:5415088.8/47

Out: 877.575 $\pm$ 0.114 χ^2 /NDF:6235292.9/54

All: 891.755 $\pm$ 0.084 χ^2 /NDF: 11683923.2/10

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -33.141 ± 0.377 χ^2/NDF : 4380.4/24

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -11.729 ± 0.348 χ^2/NDF : 2739.5/29

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

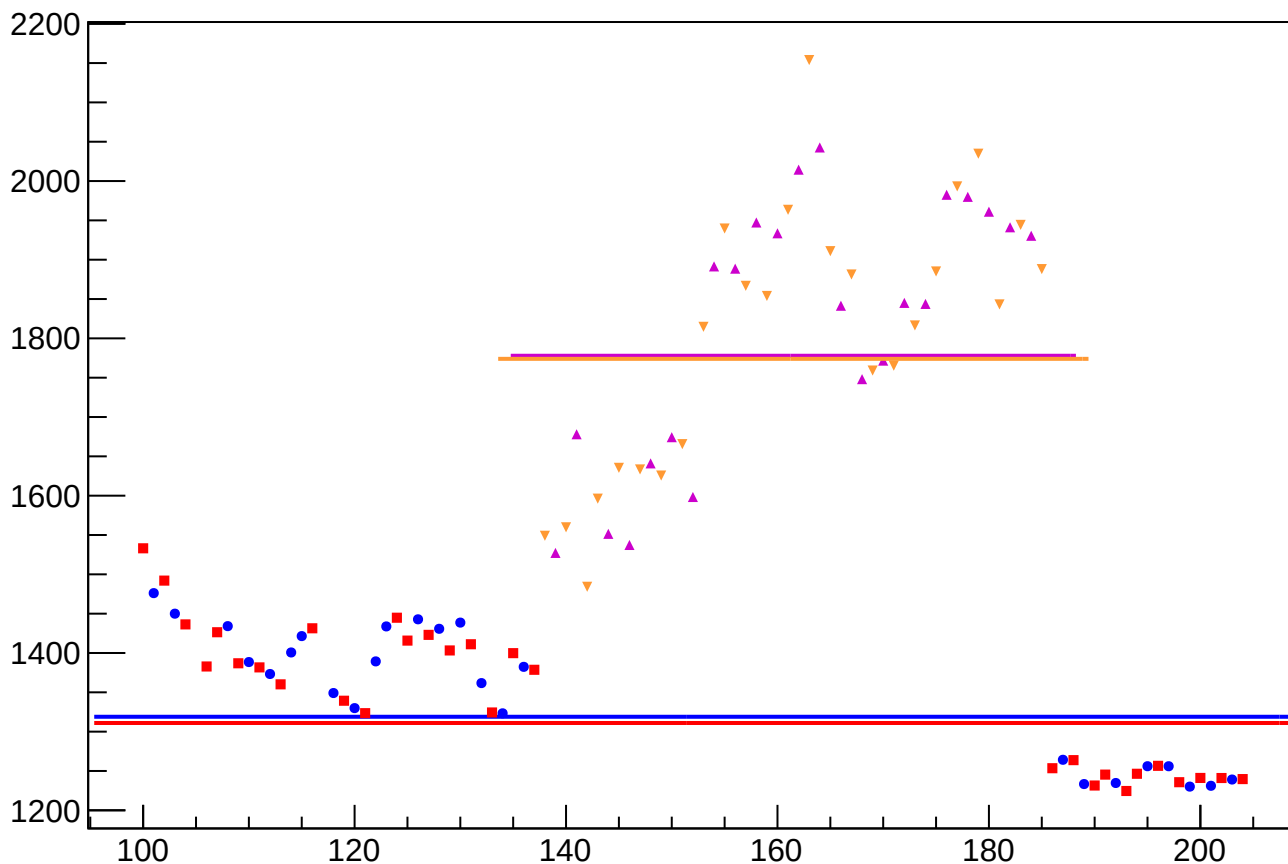
Right: -21.567 ± 0.256 χ^2/NDF : 8859.1/54

In: -6.644 ± 0.283 χ^2/NDF : 16632.1/47

Out: -8.141 ± 0.267 χ^2/NDF : 3552.6/54

All: -7.438 ± 0.194 χ^2/NDF : 20199.5/102

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1318.928 $\pm$ 0.267 χ^2 /NDF: 104171.1/24

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF:313031.1/24

Right Out: 1311.008 $\pm$ 0.246 χ^2 /NDF: 109716.0/29

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

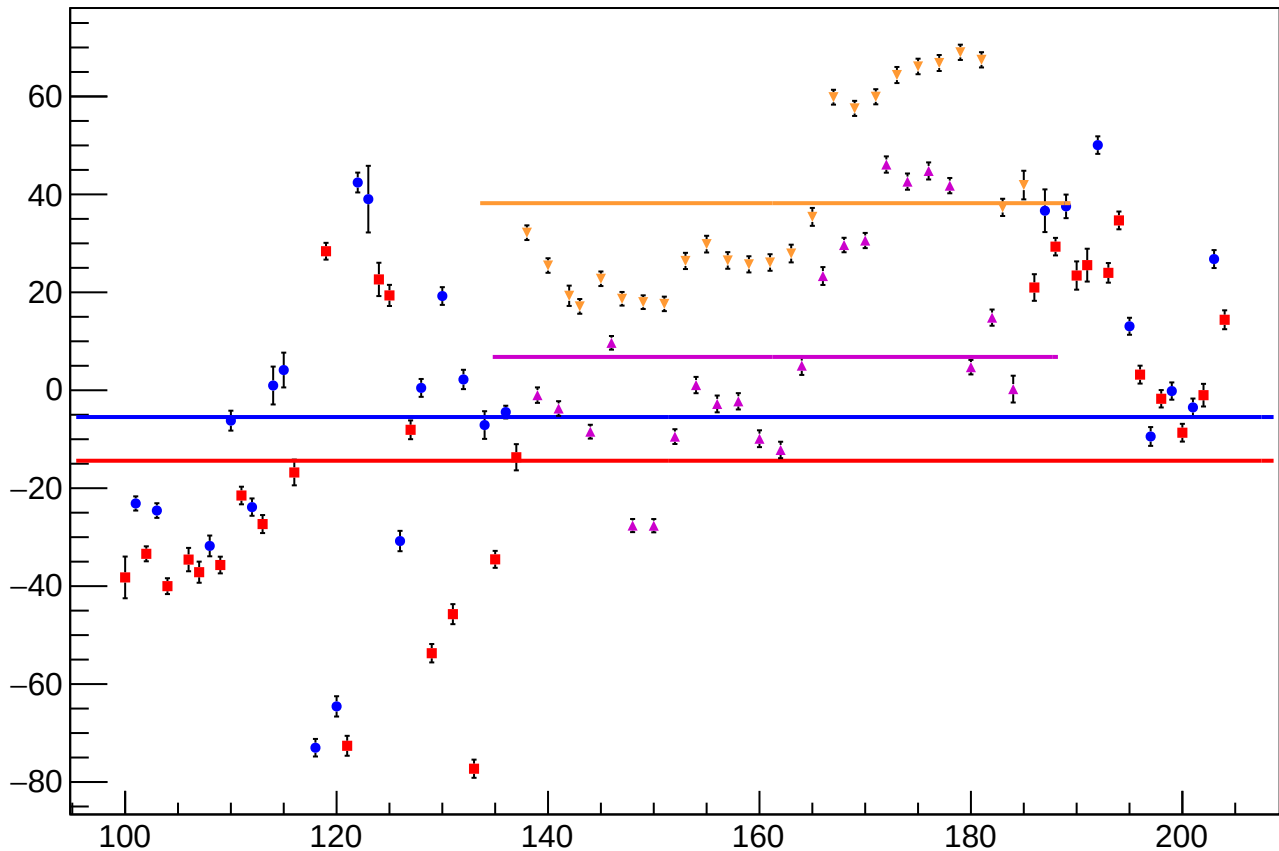
Right: 1314.647 $\pm$ 0.181 χ^2 /NDF: 214363.0/54

In: 1519.194 $\pm$ 0.200 χ^2 /NDF:1693761.3/47

Out: 1502.121 $\pm$ 0.189 χ^2 /NDF:1883638.8/54

All: 1510.139 $\pm$ 0.137 χ^2 /NDF: 3581249.7/10

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -5.466+/-0.391 χ^2/NDF : 5590.9/24

Left Out: 38.206+/-0.323 χ^2/NDF :3514.2/24

Right Out: -14.391+/-0.368 χ^2/NDF : 7200.9/29

Left In: 6.808+/-0.333 χ^2/NDF :4494.5/22

Left: 22.967+/-0.232 χ^2/NDF : 12584.4/47

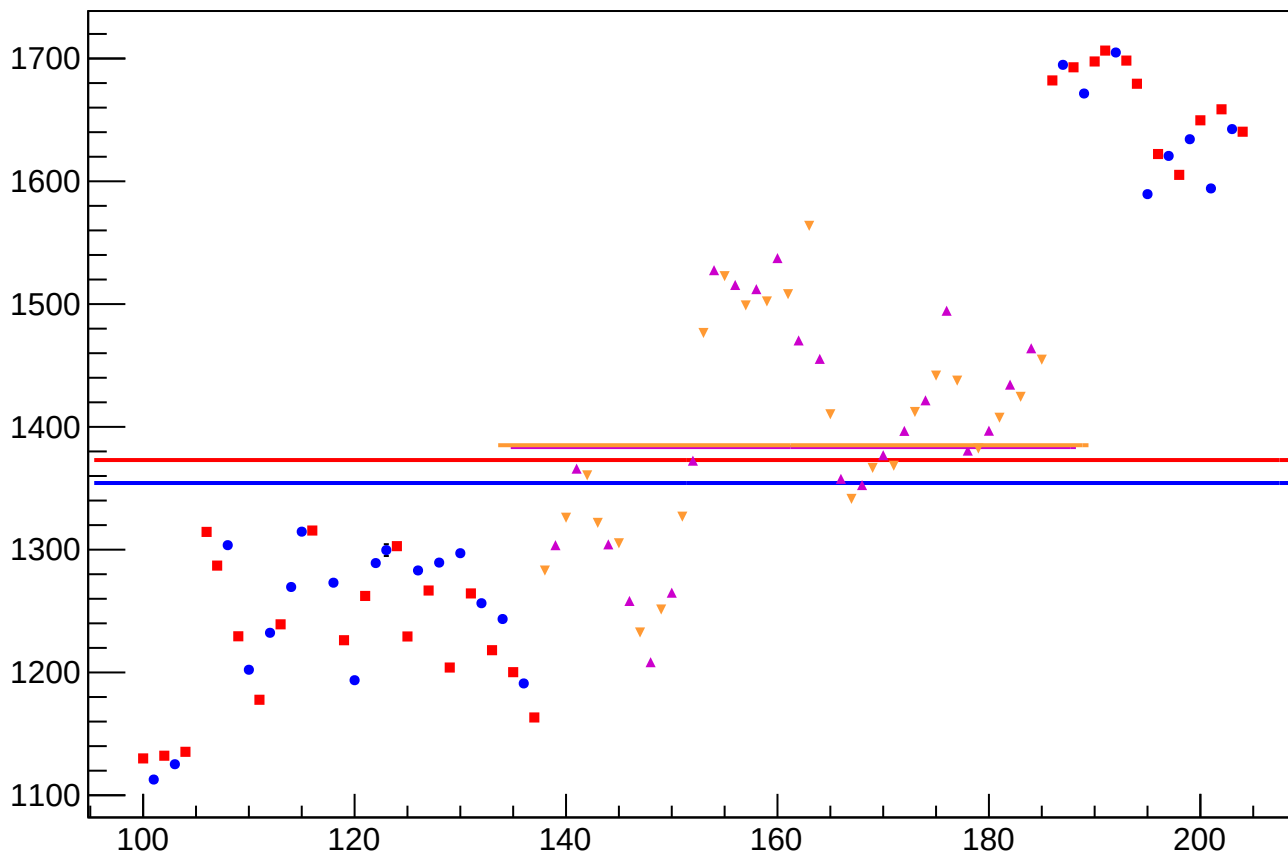
Right: -10.197+/-0.268 χ^2/NDF : 13067.9/54

In: 1.650+/-0.254 χ^2/NDF :10656.5/47

Out: 15.306+/-0.243 χ^2/NDF :22233.8/54

All: 8.768+/-0.175 χ^2/NDF : 34402.2/102

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1354.286 $\pm$ 0.277 χ^2 /NDF: 524075.5/24

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1372.989 $\pm$ 0.260 χ^2 /NDF: 688496.9/29

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

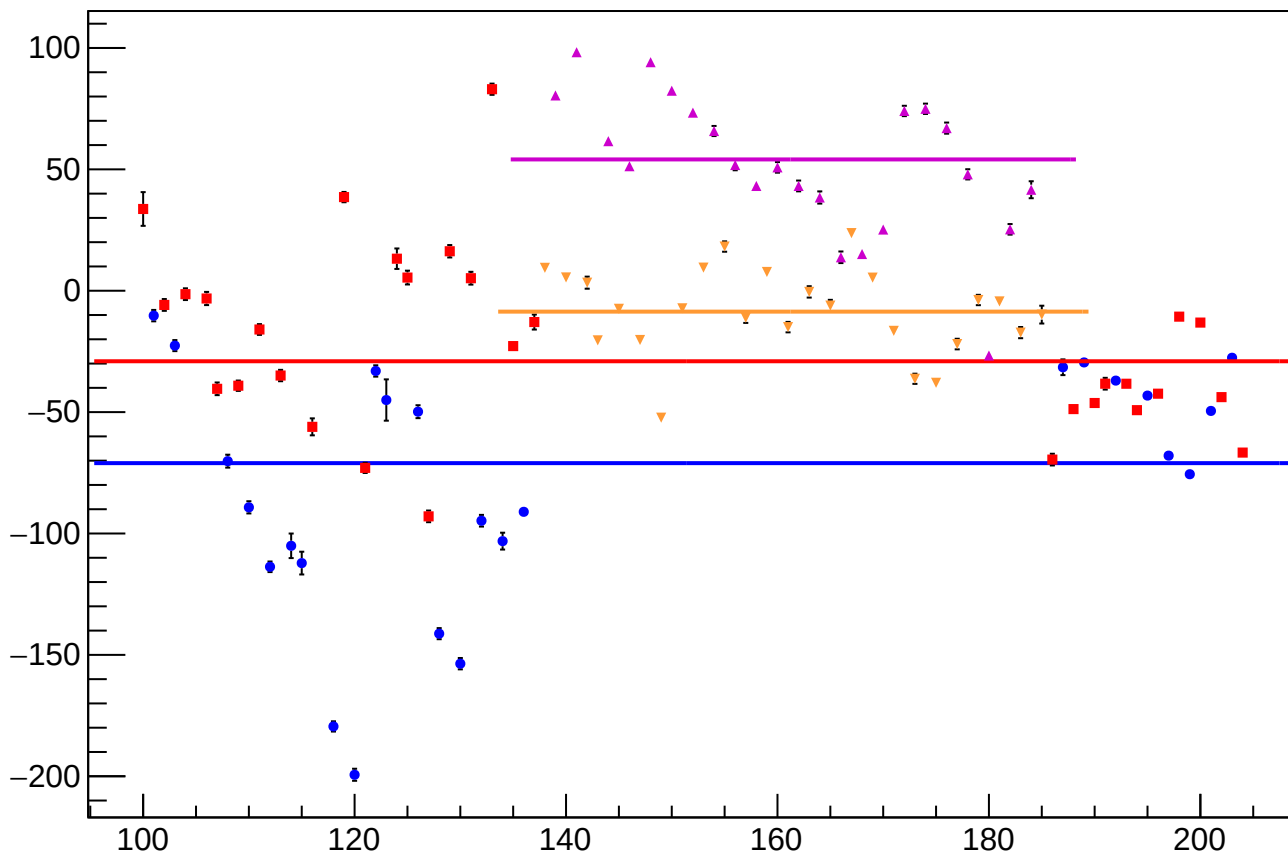
Right: 1364.200 $\pm$ 0.190 χ^2 /NDF: 1214996.6/54

In: 1371.257 $\pm$ 0.179 χ^2 /NDF:685266.2/47

Out: 1379.806 $\pm$ 0.172 χ^2 /NDF:835712.5/54

All: 1375.713 $\pm$ 0.124 χ^2 /NDF: 1522164.0/100

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -71.016 ± 0.417 $\chi^2/\text{NDF}: 12510.4/24$

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

Right Out: -29.051 ± 0.382 $\chi^2/\text{NDF}: 7488.6/29$

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

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

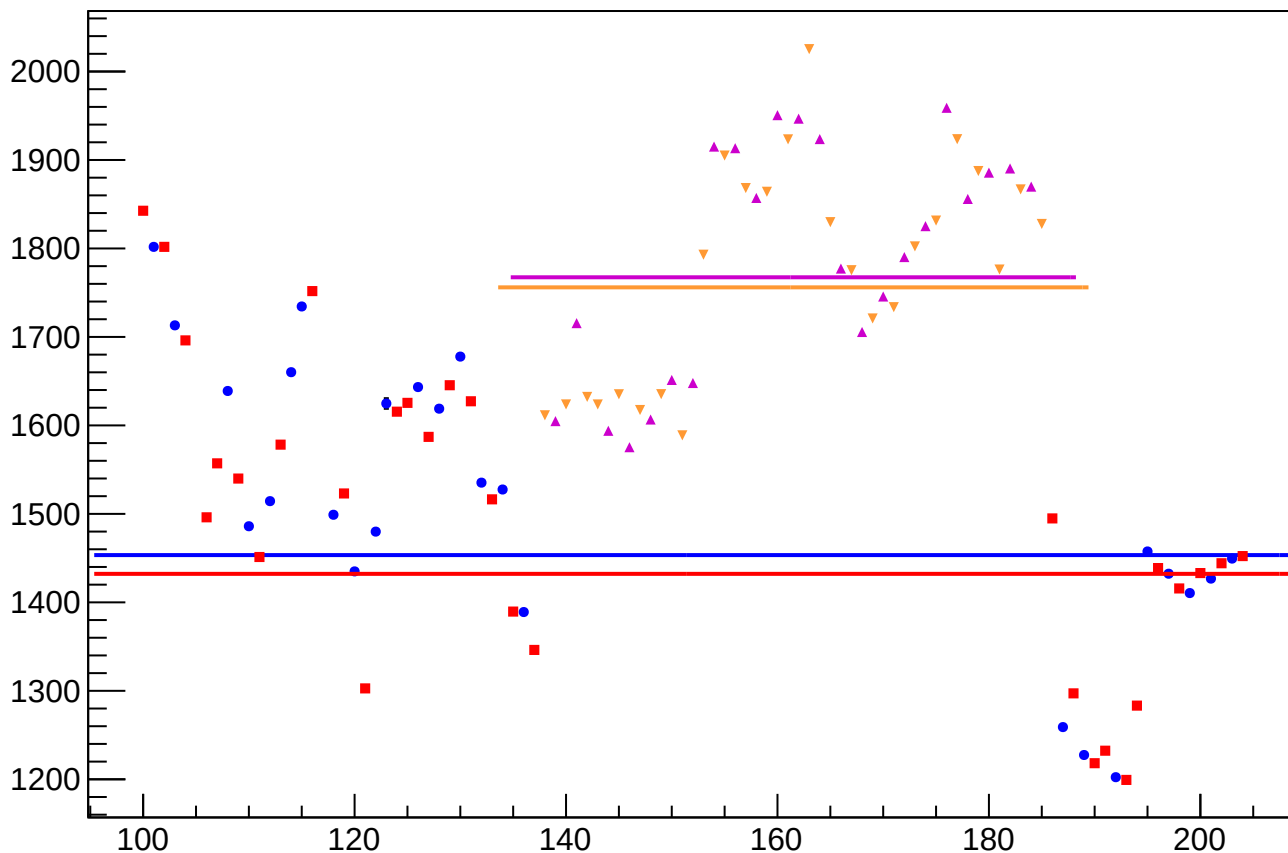
Right: -48.152 ± 0.282 $\chi^2/\text{NDF}: 25506.2/54$

In: -9.685 ± 0.298 $\chi^2/\text{NDF}: 61270.7/47$

Out: -19.569 ± 0.279 $\chi^2/\text{NDF}: 10751.1/54$

All: -14.946 ± 0.204 $\chi^2/\text{NDF}: 72607.2/102$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1453.421 $\pm$ 0.295 χ^2/NDF : 261497.2/24

Left Out: 1756.034 $\pm$ 0.290 χ^2/NDF :175762.3/24

Right Out: 1432.214 $\pm$ 0.270 χ^2/NDF : 308100.6/29

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

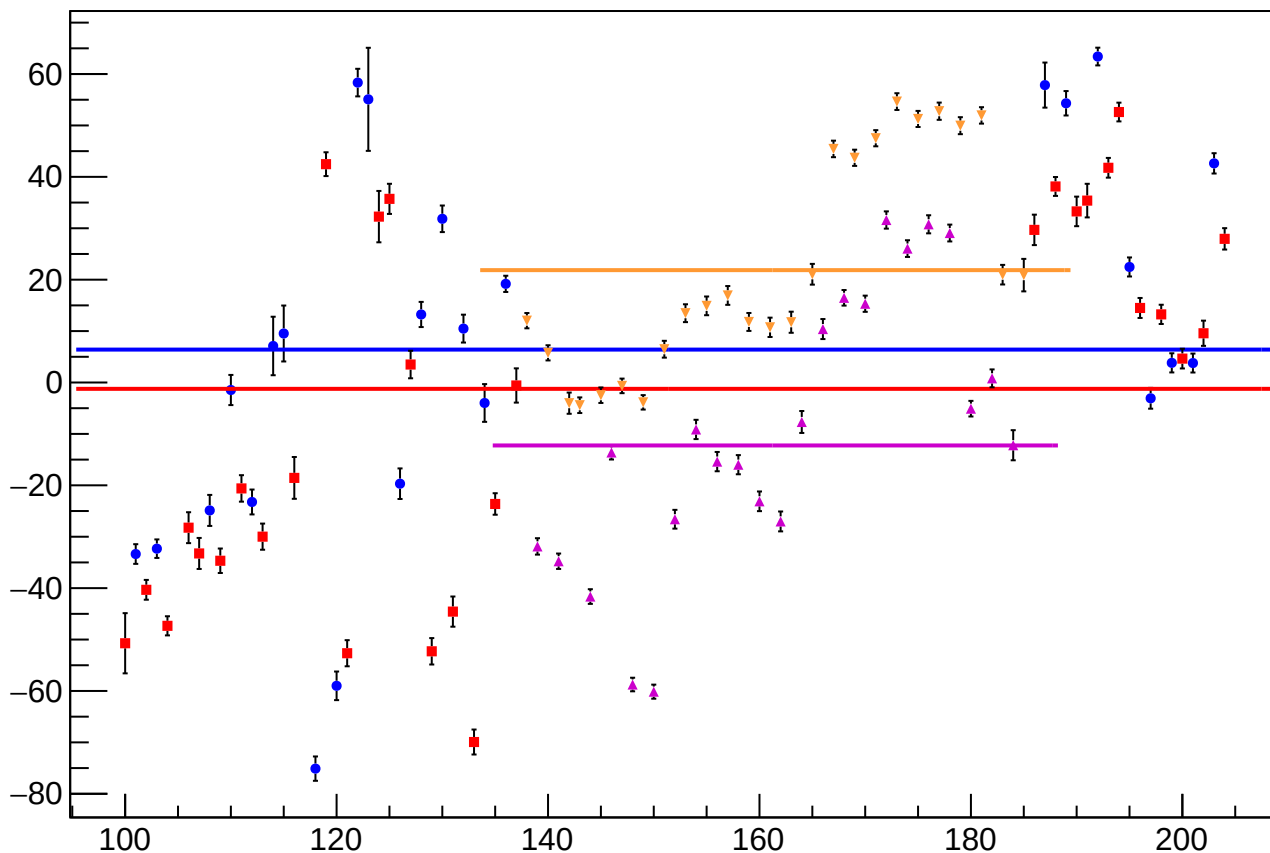
Right: 1441.866 $\pm$ 0.199 χ^2/NDF : 572410.7/54

In: 1607.350 $\pm$ 0.211 χ^2/NDF :1004269.8/47

Out: 1582.397 $\pm$ 0.198 χ^2/NDF :1152118.5/54

All: 1594.068 $\pm$ 0.144 χ^2/NDF : 2163851.2/10

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 6.401 $\pm$ 0.472 χ^2 /NDF: 5626.7/24

Left Out: 21.856 $\pm$ 0.335 χ^2 /NDF:4110.5/24

Right Out: -1.234 $\pm$ 0.440 χ^2 /NDF: 6754.5/29

Left In: -12.246 $\pm$ 0.347 χ^2 /NDF:6781.6/22

Left: 5.391 $\pm$ 0.241 χ^2 /NDF: 15885.7/47

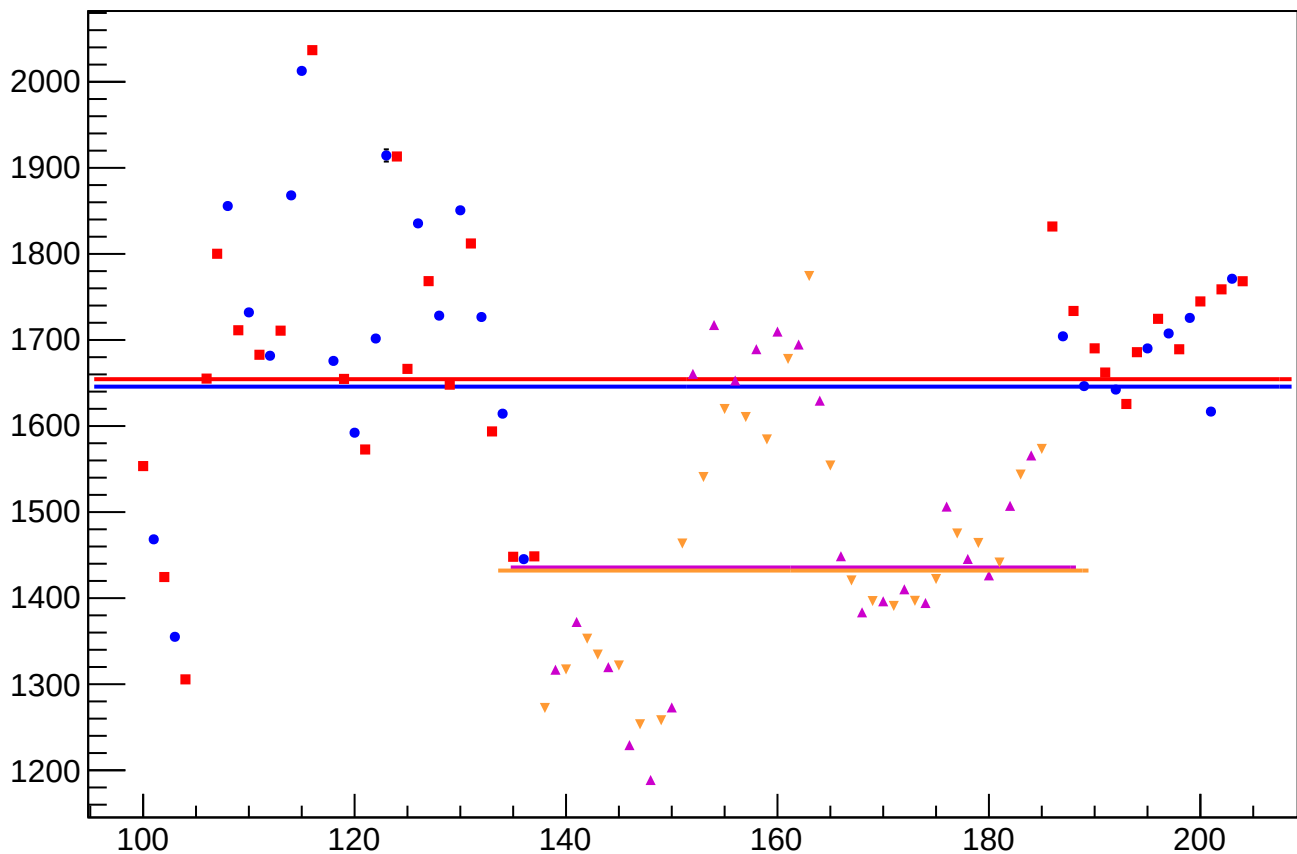
Right: 2.315 $\pm$ 0.322 χ^2 /NDF: 12521.0/54

In: -5.709 $\pm$ 0.280 χ^2 /NDF:13420.3/47

Out: 13.377 $\pm$ 0.267 χ^2 /NDF:12606.1/54

All: 4.286 $\pm$ 0.193 χ^2 /NDF: 28465.1/102

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1645.787 $\pm$ 0.334 χ^2/NDF : 169417.0/24

Left Out: 1432.060 $\pm$ 0.237 χ^2/NDF : 297360.3/24

Right Out: 1654.450 $\pm$ 0.311 χ^2/NDF : 198914.1/29

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

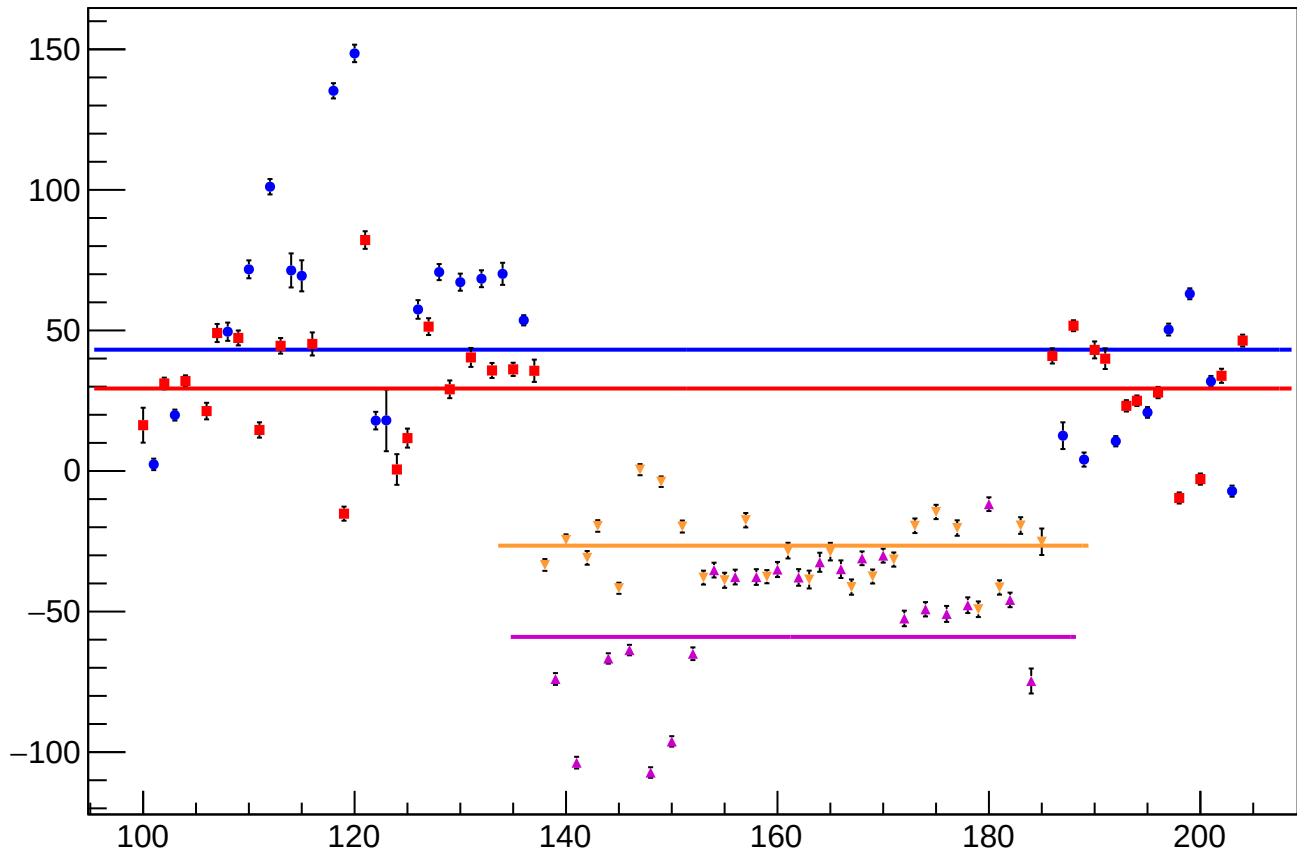
Right: 1650.424 $\pm$ 0.228 χ^2/NDF : 368691.1/54

In: 1509.312 $\pm$ 0.198 χ^2/NDF : 847304.2/47

Out: 1513.719 $\pm$ 0.189 χ^2/NDF : 819301.6/54

All: 1511.620 $\pm$ 0.136 χ^2/NDF : 1666865.9/10

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 43.160 $\pm$ 0.511 χ^2/NDF : 5342.5/24

Left Out: -26.554 $\pm$ 0.488 χ^2/NDF : 717.5/24

Right Out: 29.342 $\pm$ 0.471 χ^2/NDF : 1824.3/29

Left In: -59.014 $\pm$ 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 $\pm$ 0.351 χ^2/NDF : 5632.2/47

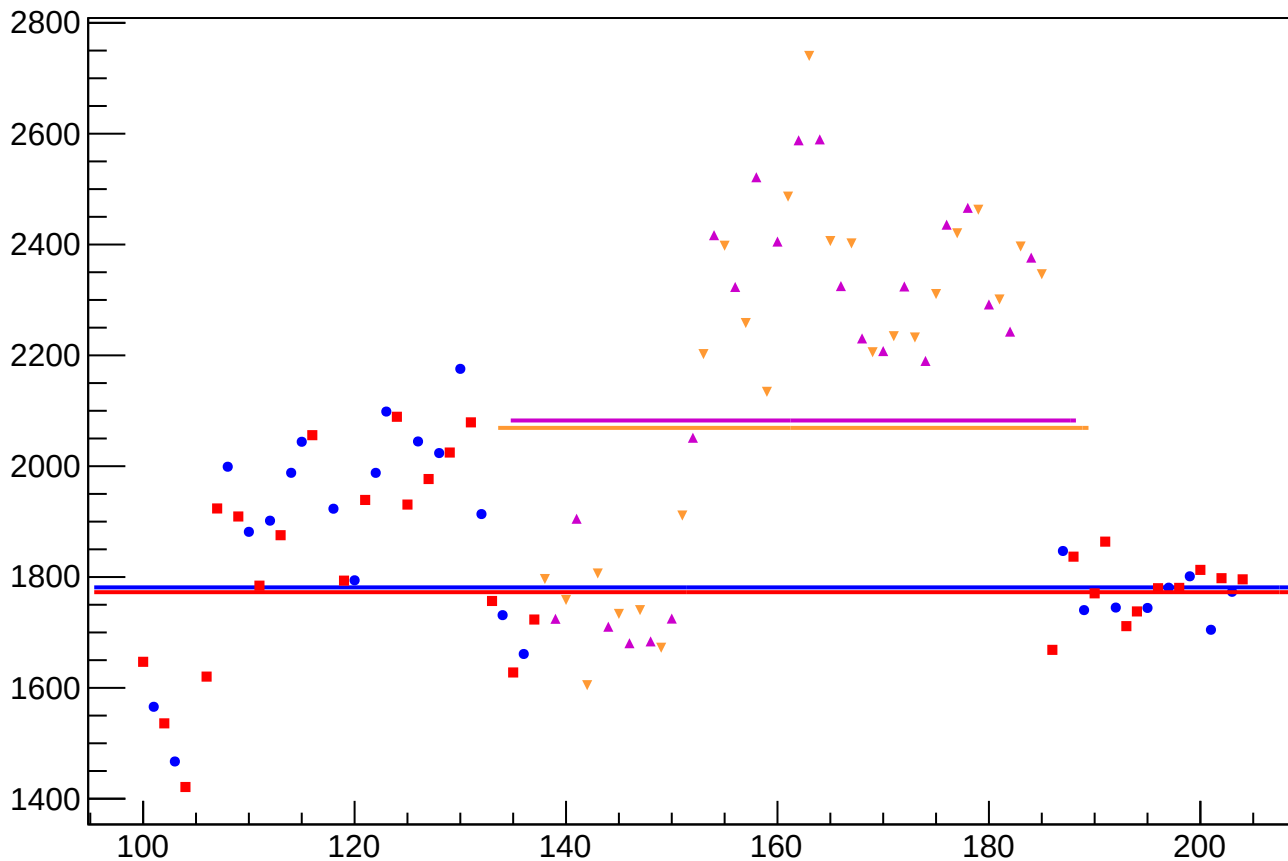
Right: 35.691 $\pm$ 0.347 χ^2/NDF : 7561.5/54

In: -8.414 $\pm$ 0.360 χ^2/NDF : 28285.0/47

Out: 2.354 $\pm$ 0.339 χ^2/NDF : 9330.7/54

All: -2.710 $\pm$ 0.247 χ^2/NDF : 38090.2/102

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1781.348 $\pm$ 0.362 χ^2 /NDF: 191113.5/24

Left Out: 2069.146 $\pm$ 0.345 χ^2 /NDF: 799037.9/24

Right Out: 1772.673 $\pm$ 0.333 χ^2 /NDF: 188089.0/29

Left In: 2082.497 $\pm$ 0.358 χ^2 /NDF: 785304.0/22

Left: 2075.572 $\pm$ 0.248 χ^2 /NDF: 1585062.9/47

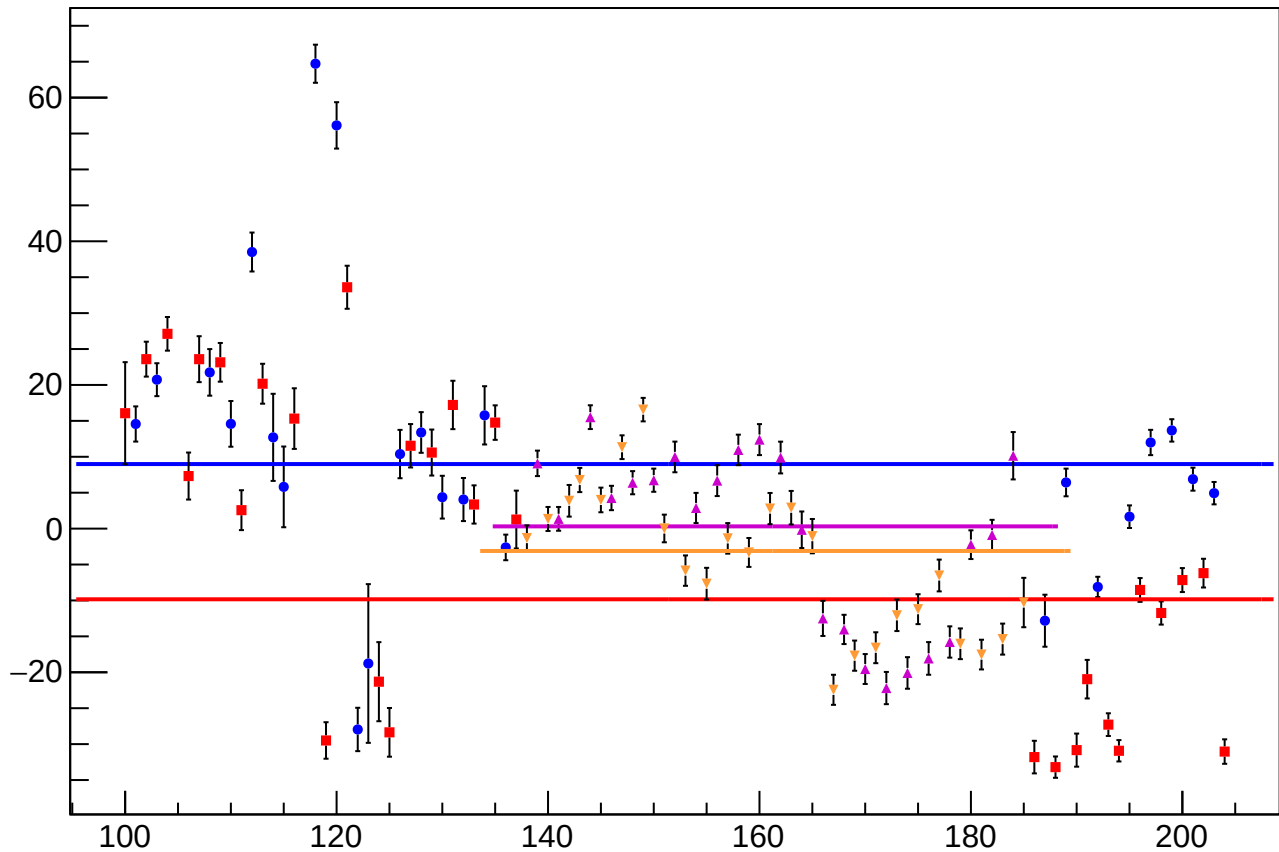
Right: 1776.659 $\pm$ 0.245 χ^2 /NDF: 379513.7/54

In: 1933.359 $\pm$ 0.254 χ^2 /NDF: 1326664.4/47

Out: 1915.820 $\pm$ 0.240 χ^2 /NDF: 1369103.9/54

All: 1924.068 $\pm$ 0.174 χ^2 /NDF: 2698286.0/100

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 8.986 ± 0.461 $\chi^2/\text{NDF}: 1259.7/24$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: -9.839 ± 0.422 $\chi^2/\text{NDF}: 2434.5/29$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

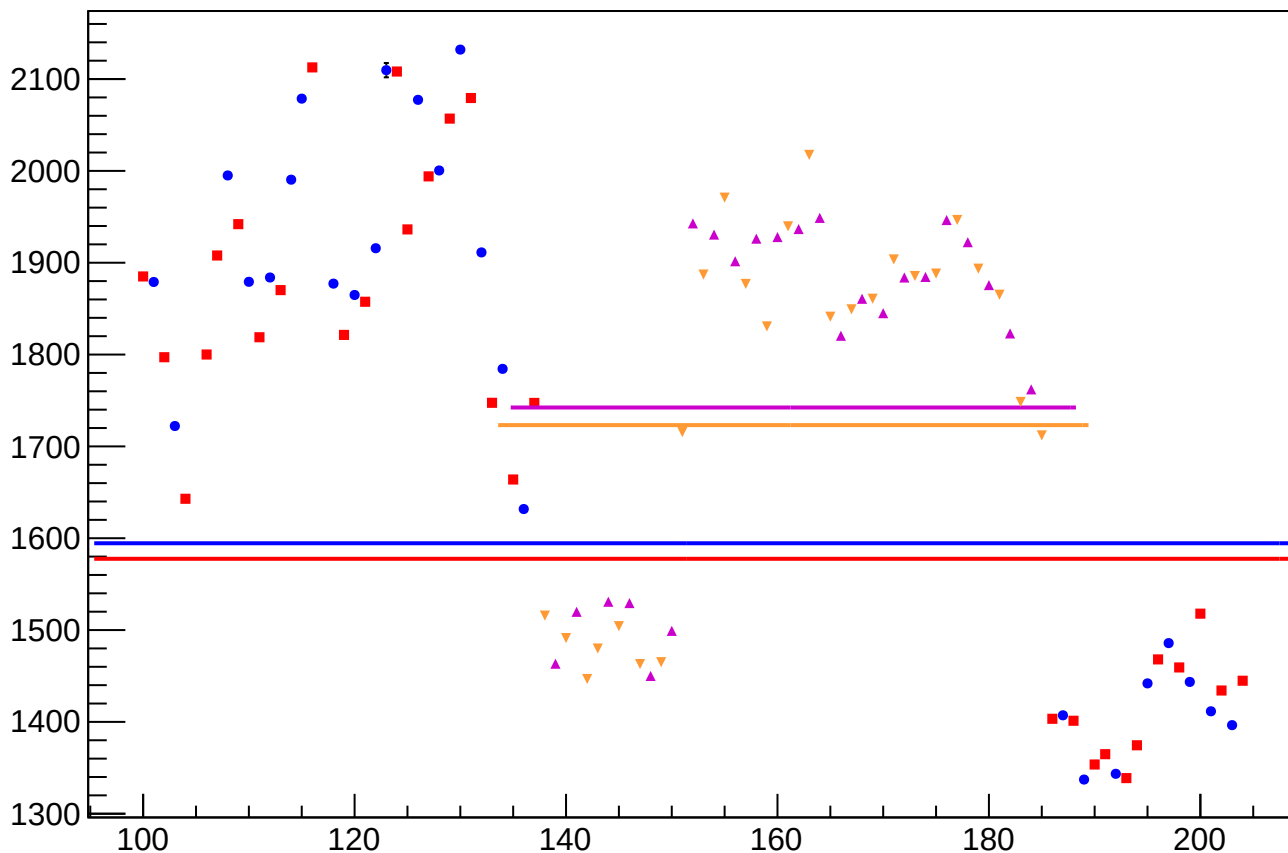
Right: -1.249 ± 0.312 $\chi^2/\text{NDF}: 4600.2/54$

In: 4.256 ± 0.311 $\chi^2/\text{NDF}: 2189.1/47$

Out: -6.327 ± 0.292 $\chi^2/\text{NDF}: 3210.6/54$

All: -1.367 ± 0.213 $\chi^2/\text{NDF}: 6015.2/102$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1594.524 $\pm$ 0.326 χ^2/NDF : 572570.3/24

Left Out: 1723.168 $\pm$ 0.286 χ^2/NDF : 477441.1/24

Right Out: 1577.605 $\pm$ 0.299 χ^2/NDF : 575525.7/29

Left In: 1742.354 $\pm$ 0.298 χ^2/NDF : 435841.5/22

Left: 1732.370 $\pm$ 0.206 χ^2/NDF : 915443.3/47

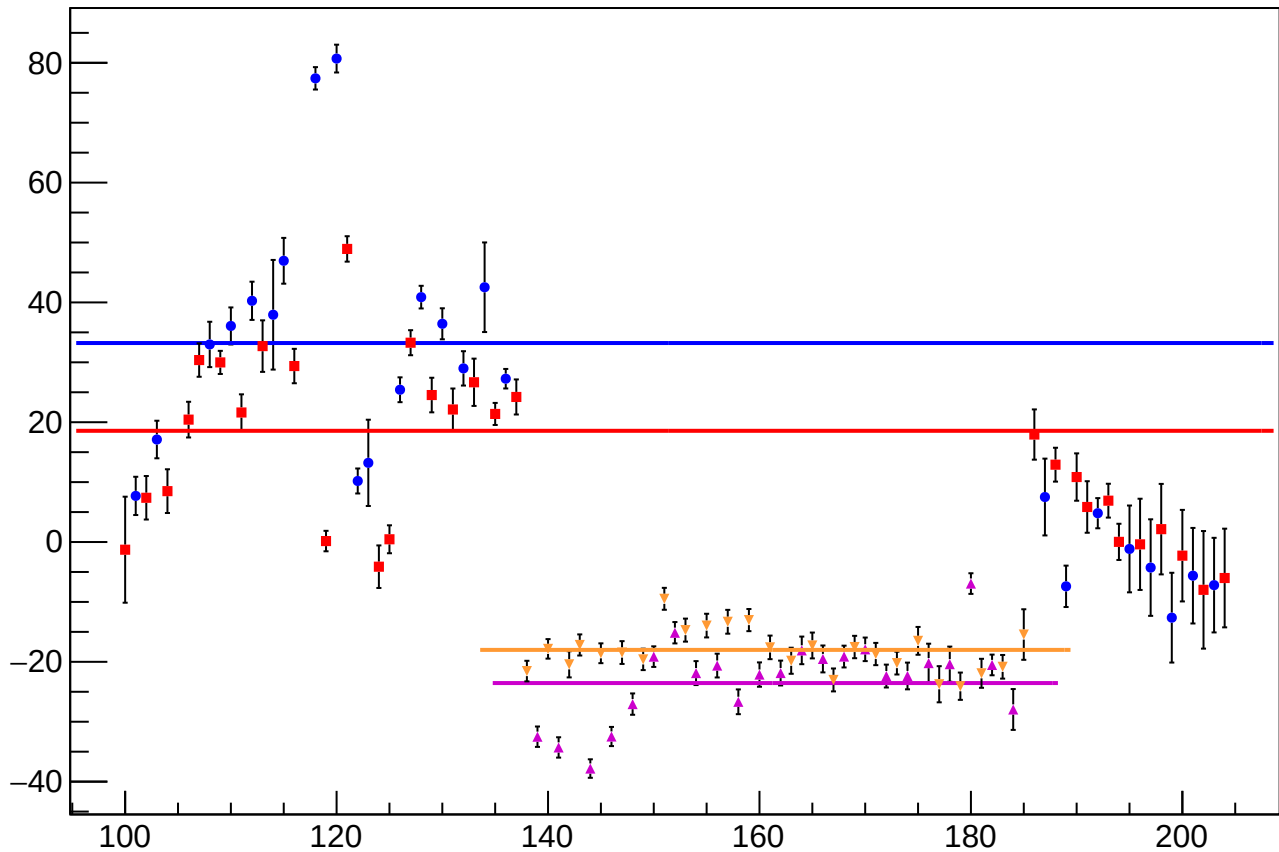
Right: 1585.325 $\pm$ 0.220 χ^2/NDF : 1149559.7/54

In: 1675.138 $\pm$ 0.220 χ^2/NDF : 1120493.3/47

Out: 1653.594 $\pm$ 0.207 χ^2/NDF : 1176918.7/54

All: 1663.692 $\pm$ 0.151 χ^2/NDF : 2302512.8/10

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 33.220 ± 0.598 $\chi^2/\text{NDF}: 1677.7/24$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 18.567 ± 0.550 $\chi^2/\text{NDF}: 694.2/29$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

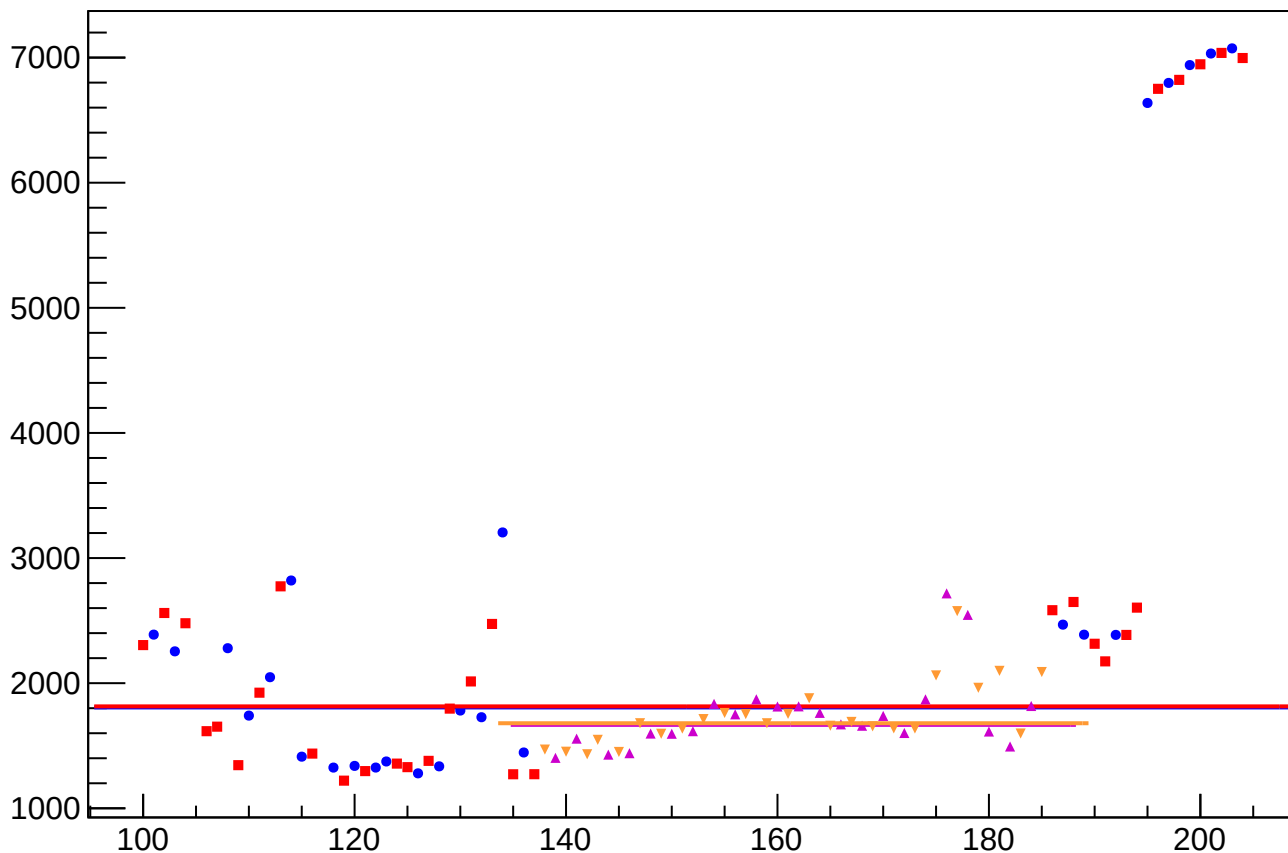
Right: 25.291 ± 0.405 $\chi^2/\text{NDF}: 2697.3/54$

In: -5.636 ± 0.336 $\chi^2/\text{NDF}: 8201.9/47$

Out: -5.498 ± 0.322 $\chi^2/\text{NDF}: 3675.4/54$

All: -5.564 ± 0.232 $\chi^2/\text{NDF}: 11877.3/102$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1806.133+/-0.423 χ^2/NDF : 5473587.6/24

Left Out: 1679.814+/-0.281 χ^2/NDF : 522795.6/24

Right Out: 1814.491+/-0.389 χ^2/NDF : 5784184.8/29

Left In: 1666.819+/-0.287 χ^2/NDF : 650990.8/22

Left: 1673.462+/-0.201 χ^2/NDF : 1174835.7/47

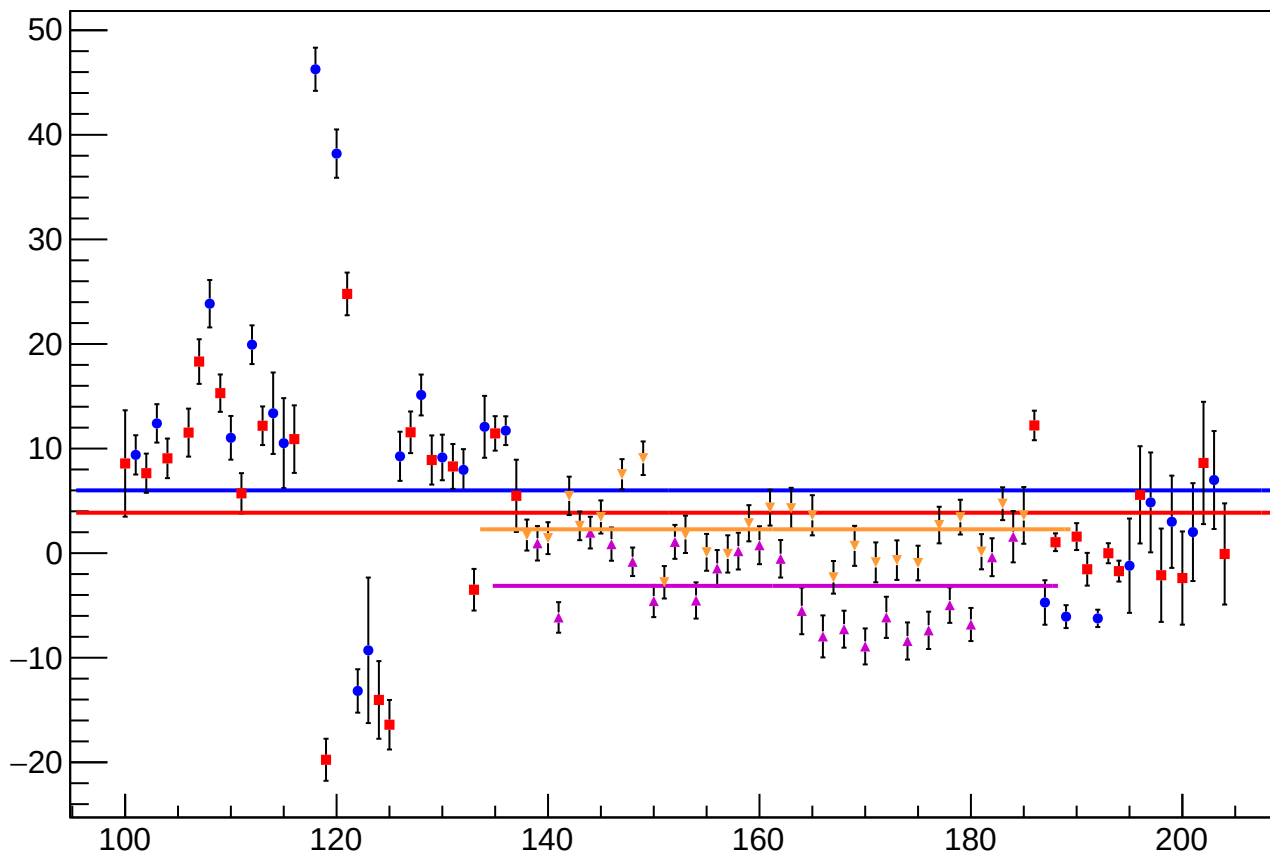
Right: 1810.656+/-0.286 χ^2/NDF : 11257984.2/54

In: 1710.770+/-0.237 χ^2/NDF : 6198996.5/47

Out: 1725.876+/-0.228 χ^2/NDF : 6385822.0/54

All: 1718.641+/-0.164 χ^2/NDF : 12586929.5/101

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 6.002 ± 0.396 $\chi^2/\text{NDF}: 1225.9/24$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 3.864 ± 0.328 $\chi^2/\text{NDF}: 648.8/29$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

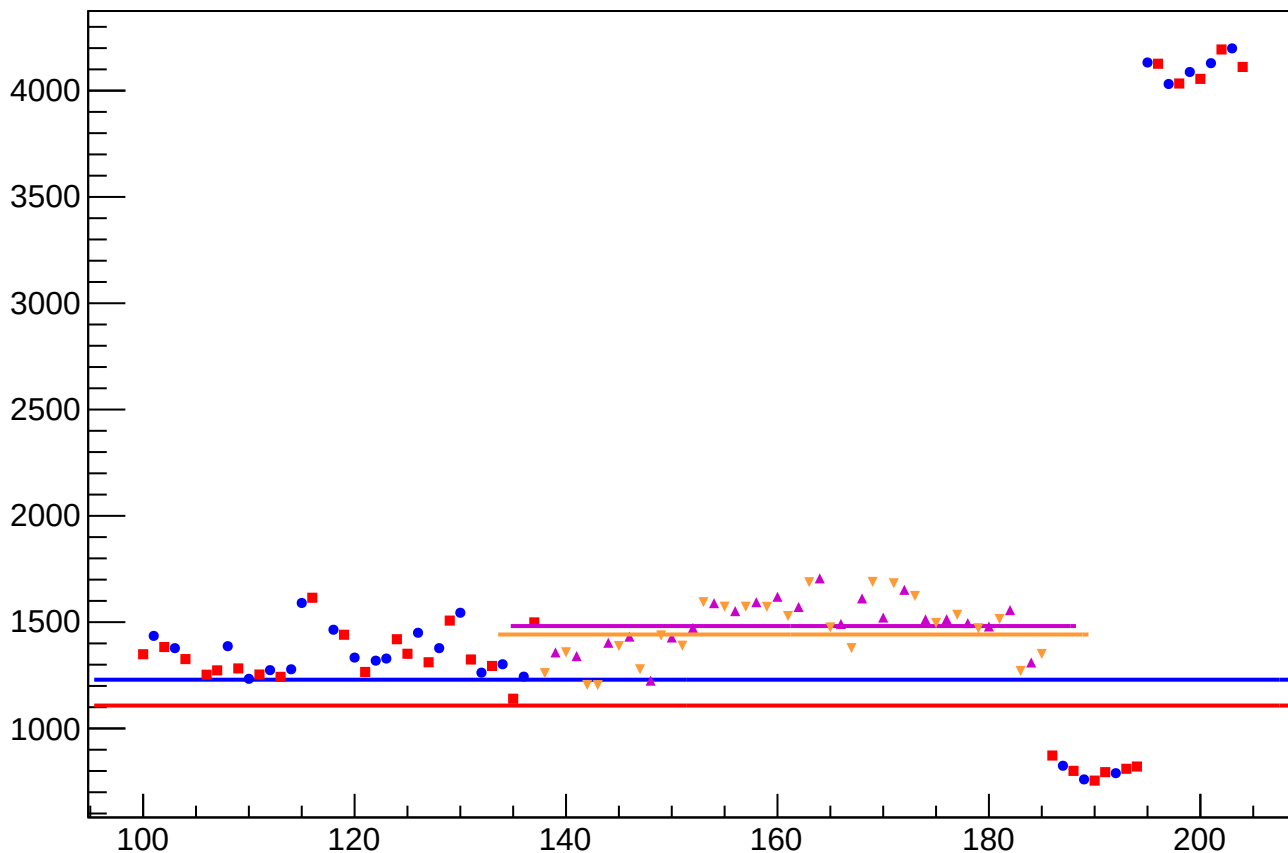
Right: 4.735 ± 0.253 $\chi^2/\text{NDF}: 1891.9/54$

In: 0.974 ± 0.265 $\chi^2/\text{NDF}: 1622.1/47$

Out: 3.096 ± 0.236 $\chi^2/\text{NDF}: 735.7/54$

All: 2.161 ± 0.176 $\chi^2/\text{NDF}: 2393.5/102$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1229.344 ± 0.280 $\chi^2/\text{NDF}: 5097589.2/24$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1107.757 ± 0.232 $\chi^2/\text{NDF}: 5241964.5/29$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

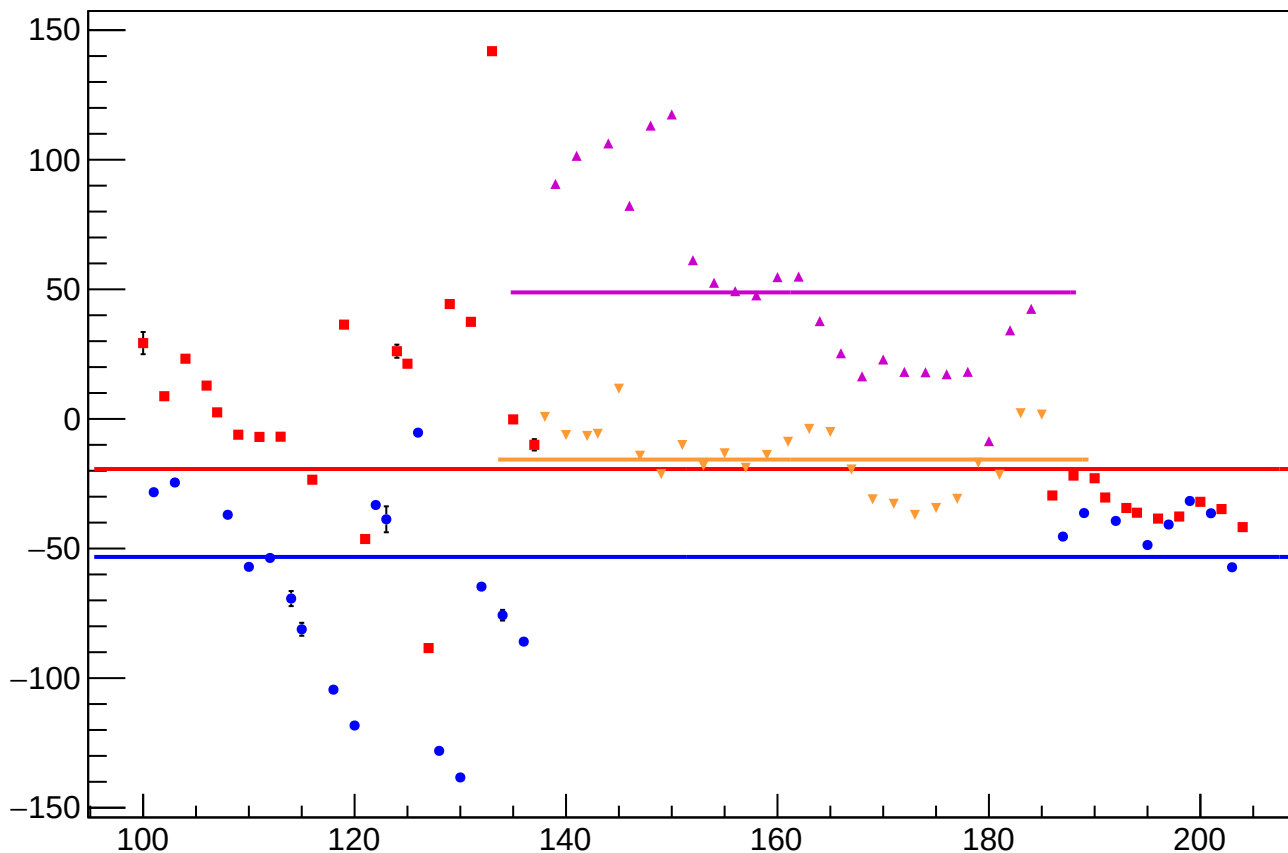
Right: 1157.263 ± 0.179 $\chi^2/\text{NDF}: 10451383.7/54$

In: 1368.302 ± 0.188 $\chi^2/\text{NDF}: 5753502.1/47$

Out: 1269.769 ± 0.167 $\chi^2/\text{NDF}: 6618485.0/54$

All: 1313.179 ± 0.125 $\chi^2/\text{NDF}: 12526223.0/101$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.241 ± 0.219 $\chi^2/\text{NDF}: 17013.3/24$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -19.323 ± 0.199 $\chi^2/\text{NDF}: 29314.5/29$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

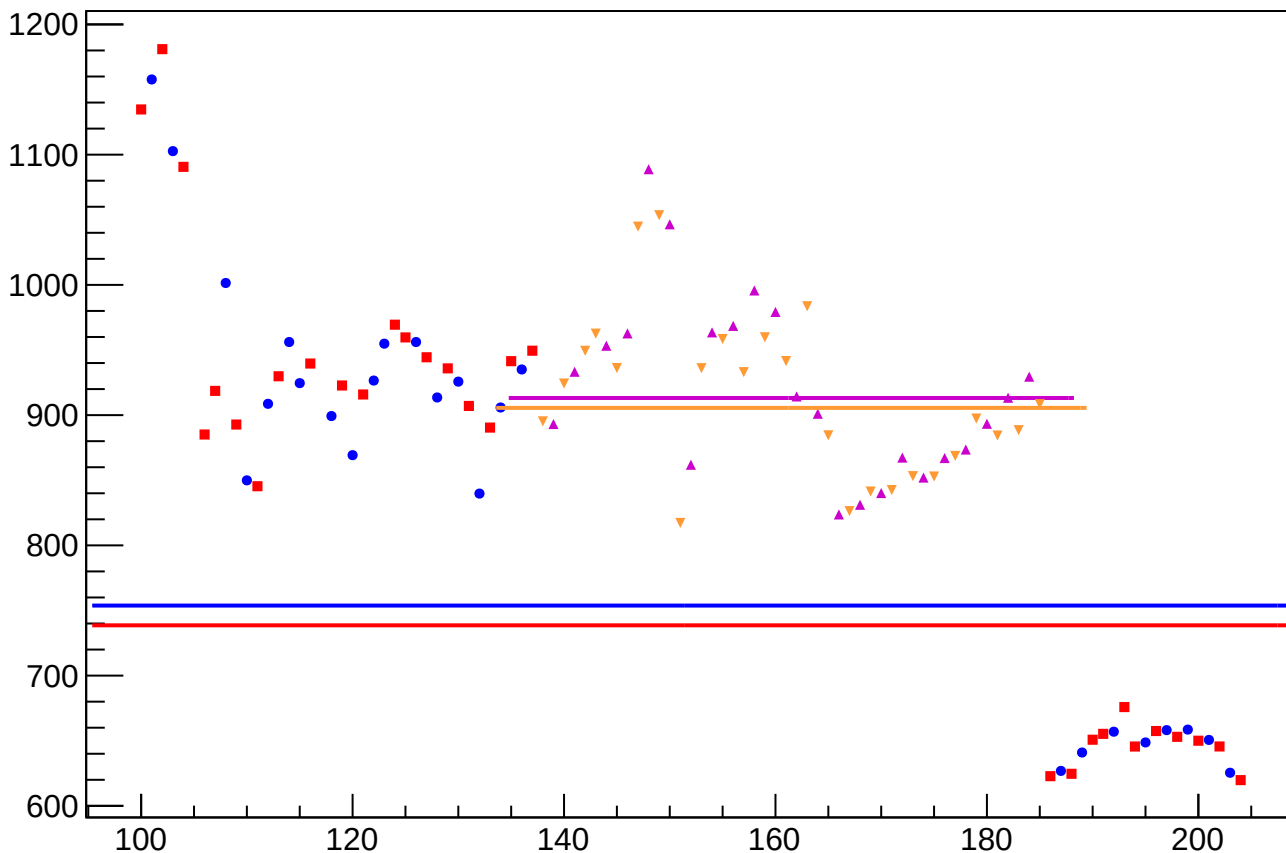
Right: -34.659 ± 0.148 $\chi^2/\text{NDF}: 59416.6/54$

In: -2.315 ± 0.155 $\chi^2/\text{NDF}: 150201.9/47$

Out: -17.603 ± 0.145 $\chi^2/\text{NDF}: 32990.9/54$

All: -10.480 ± 0.106 $\chi^2/\text{NDF}: 188366.8/102$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 753.784 $\pm$ 0.155 χ^2/NDF : 909473.9/24

Left Out: 905.578 $\pm$ 0.150 χ^2/NDF : 162073.5/24

Right Out: 738.610 $\pm$ 0.141 χ^2/NDF : 1049133.0/29

Left In: 913.165 $\pm$ 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 $\pm$ 0.108 χ^2/NDF : 337749.0/47

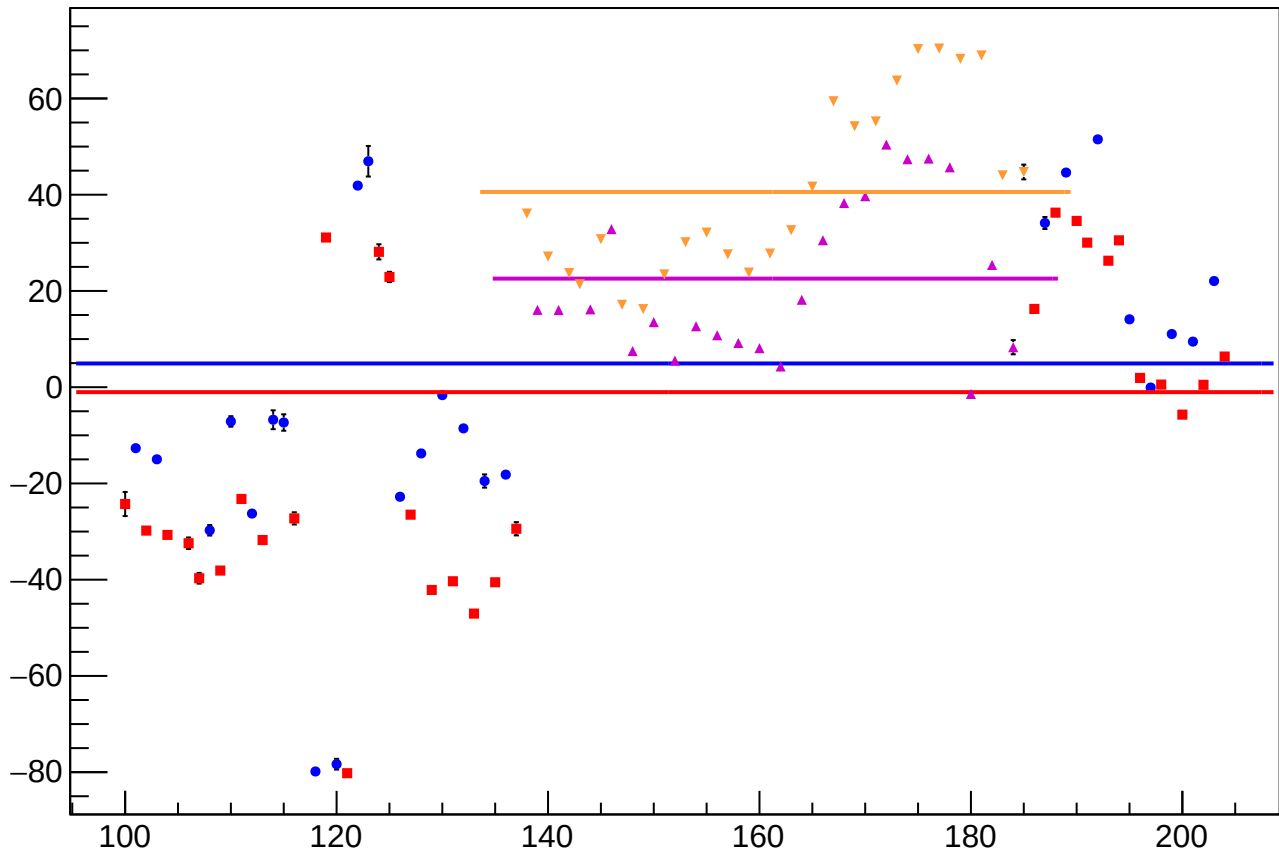
Right: 745.471 $\pm$ 0.104 χ^2/NDF : 1963846.5/54

In: 833.318 $\pm$ 0.110 χ^2/NDF : 1610390.0/47

Out: 817.156 $\pm$ 0.103 χ^2/NDF : 1871214.8/54

All: 824.686 $\pm$ 0.075 χ^2/NDF : 3493170.0/102

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 4.932 $\pm$ 0.158 χ^2 /NDF: 36586.0/24

Left Out: 40.573 $\pm$ 0.168 χ^2 /NDF:12079.0/24

Right Out: -1.027 $\pm$ 0.144 χ^2 /NDF: 41167.8/29

Left In: 22.565 $\pm$ 0.175 χ^2 /NDF:8167.7/22

Left: 31.959 $\pm$ 0.121 χ^2 /NDF: 25752.7/47

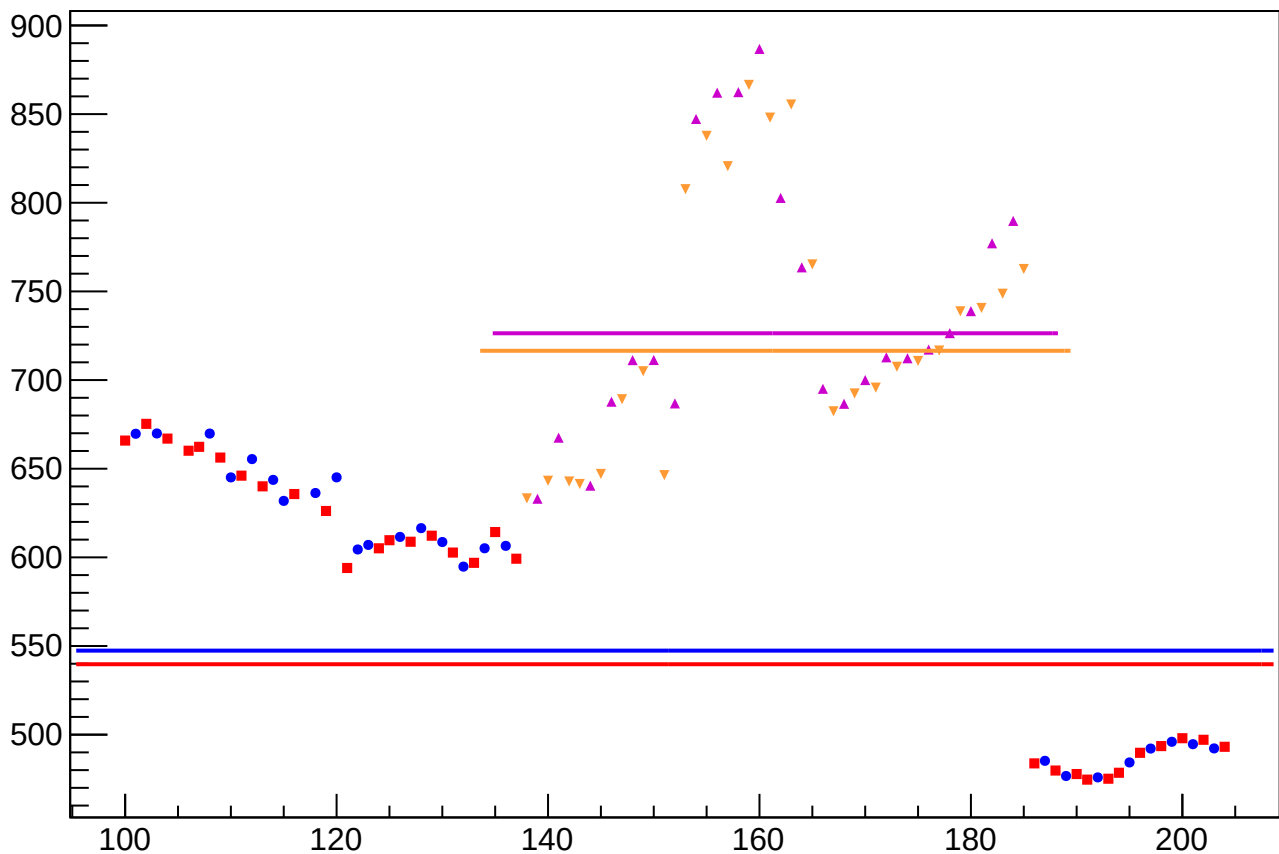
Right: 1.686 $\pm$ 0.106 χ^2 /NDF: 78531.6/54

In: 12.820 $\pm$ 0.117 χ^2 /NDF:50346.7/47

Out: 16.636 $\pm$ 0.109 χ^2 /NDF:88596.0/54

All: 14.860 $\pm$ 0.080 χ^2 /NDF: 139509.1/102

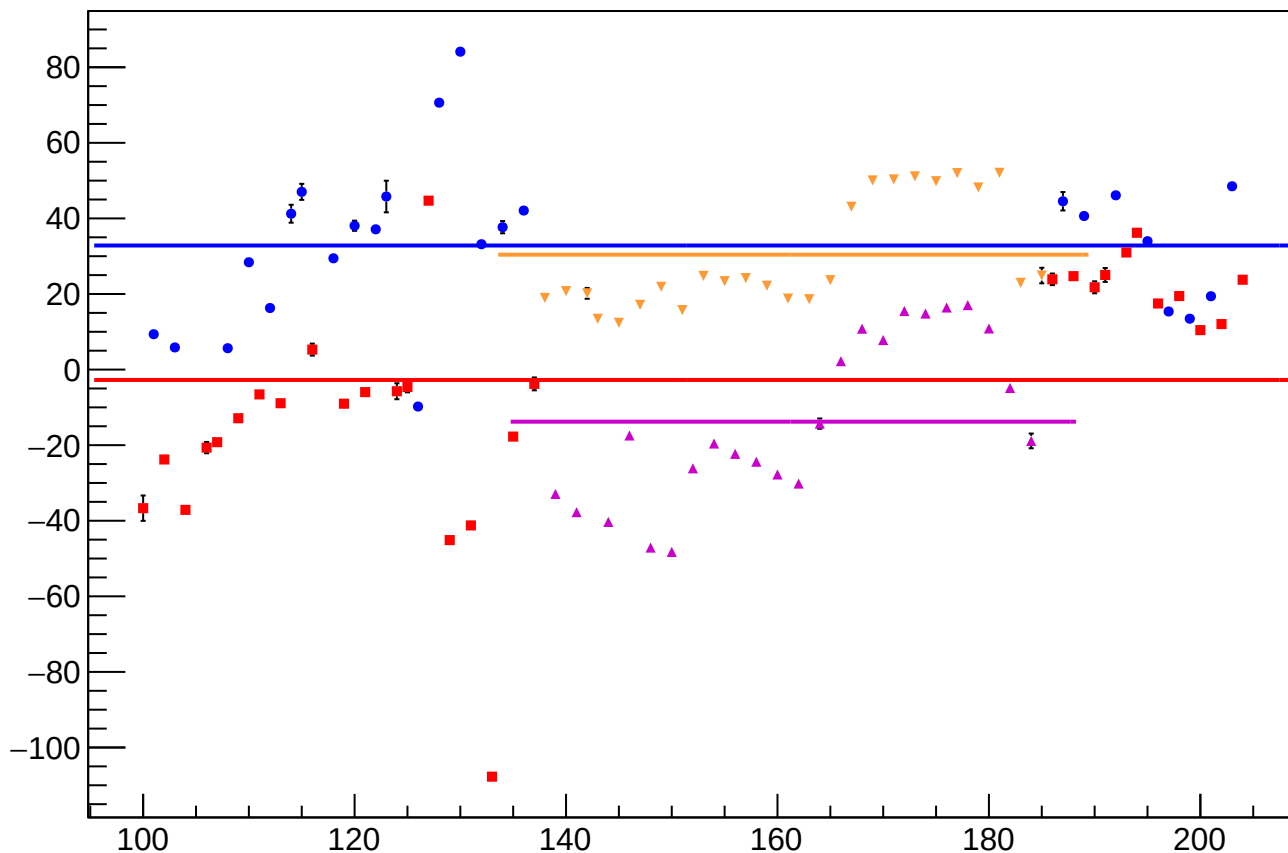
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 547.399 $\pm$ 0.112 χ^2 /NDF: 423311.2/24
 Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24
 Right Out: 539.716 $\pm$ 0.102 χ^2 /NDF: 491460.9/29
 Left In: 726.390 $\pm$ 0.124 χ^2 /NDF:289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47
 Right: 543.213 $\pm$ 0.075 χ^2 /NDF: 917357.8/54
 In: 627.471 $\pm$ 0.083 χ^2 /NDF:1865663.8/47
 Out: 614.784 $\pm$ 0.077 χ^2 /NDF:2111166.7/54
 All: 620.687 $\pm$ 0.057 χ^2 /NDF: 3989355.4/102

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 32.834 ± 0.240 $\chi^2/\text{NDF}: 7670.5/24$

Left Out: 30.408 ± 0.237 $\chi^2/\text{NDF}: 3808.0/24$

Right Out: -2.746 ± 0.225 $\chi^2/\text{NDF}: 20529.9/29$

Left In: -13.787 ± 0.246 $\chi^2/\text{NDF}: 7979.7/22$

Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$

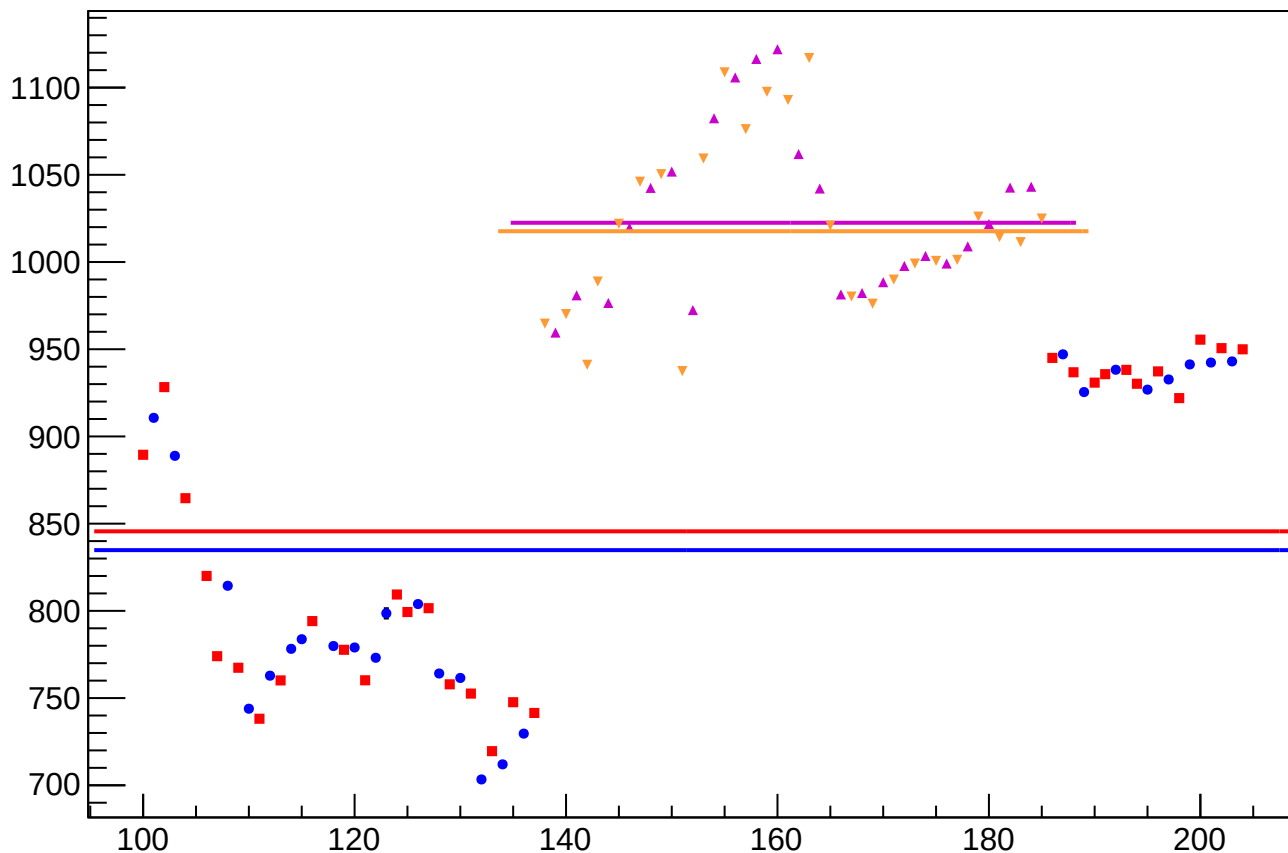
Right: 13.923 ± 0.164 $\chi^2/\text{NDF}: 39900.2/54$

In: 10.101 ± 0.172 $\chi^2/\text{NDF}: 34078.5/47$

Out: 12.953 ± 0.163 $\chi^2/\text{NDF}: 34606.4/54$

All: 11.598 ± 0.118 $\chi^2/\text{NDF}: 68829.8/102$

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 834.817 $\pm$ 0.170 χ^2 /NDF: 273075.6/24

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 845.596 $\pm$ 0.159 χ^2 /NDF: 297343.0/29

Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF: 69635.5/22

Left: 1019.997 $\pm$ 0.121 χ^2 /NDF: 153652.2/47

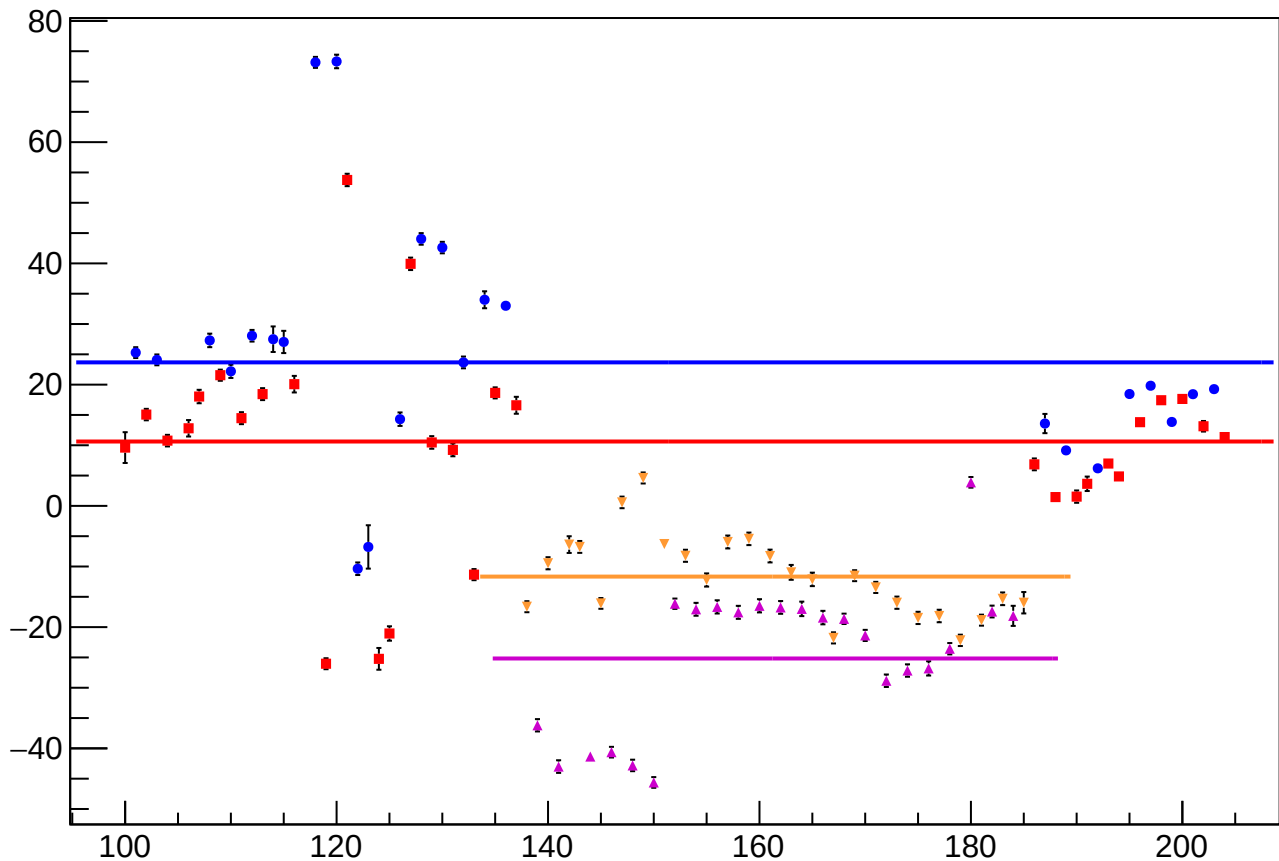
Right: 840.546 $\pm$ 0.116 χ^2 /NDF: 572566.4/54

In: 926.339 $\pm$ 0.121 χ^2 /NDF: 940116.1/47

Out: 927.069 $\pm$ 0.116 χ^2 /NDF: 934045.9/54

All: 926.722 $\pm$ 0.084 χ^2 /NDF: 1874181.1/102

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 23.672 $\pm$ 0.177 χ^2/NDF : 8892.9/24

Left Out: -11.664 $\pm$ 0.200 χ^2/NDF :1147.4/24

Right Out: 10.618 $\pm$ 0.167 χ^2/NDF : 7015.9/29

Left In: -25.174 $\pm$ 0.207 χ^2/NDF :3747.1/22

Left: -18.184 $\pm$ 0.144 χ^2/NDF : 7090.4/47

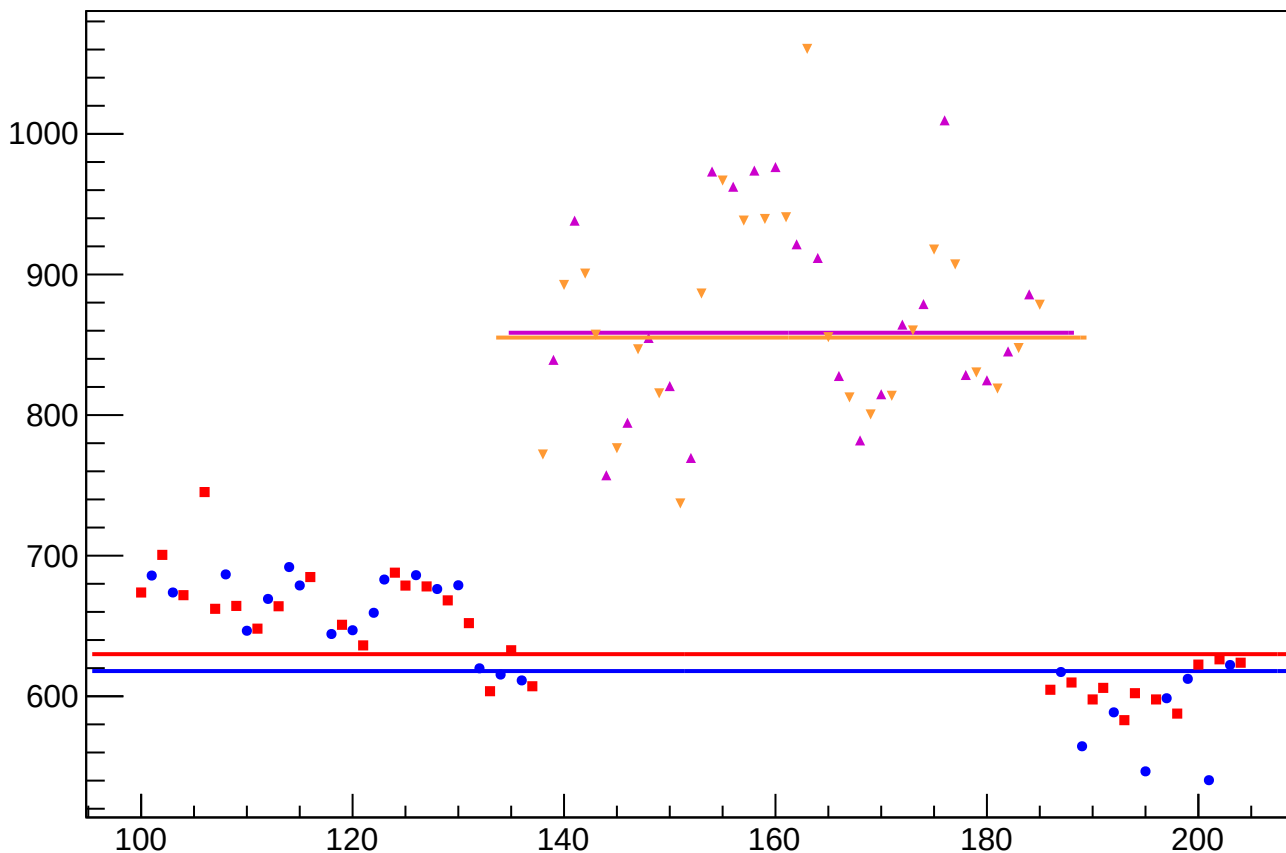
Right: 16.760 $\pm$ 0.122 χ^2/NDF : 18774.9/54

In: 3.026 $\pm$ 0.135 χ^2/NDF :44670.7/47

Out: 1.464 $\pm$ 0.128 χ^2/NDF :15455.6/54

All: 2.207 $\pm$ 0.093 χ^2/NDF : 60196.6/102

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 617.925 ± 0.125 $\chi^2/\text{NDF}: 142934.2/24$

Left Out: 855.131 ± 0.142 $\chi^2/\text{NDF}: 233746.7/24$

Right Out: 629.949 ± 0.118 $\chi^2/\text{NDF}: 89820.2/29$

Left In: 858.563 ± 0.147 $\chi^2/\text{NDF}: 239019.8/22$

Left: 856.788 ± 0.102 $\chi^2/\text{NDF}: 473049.9/47$

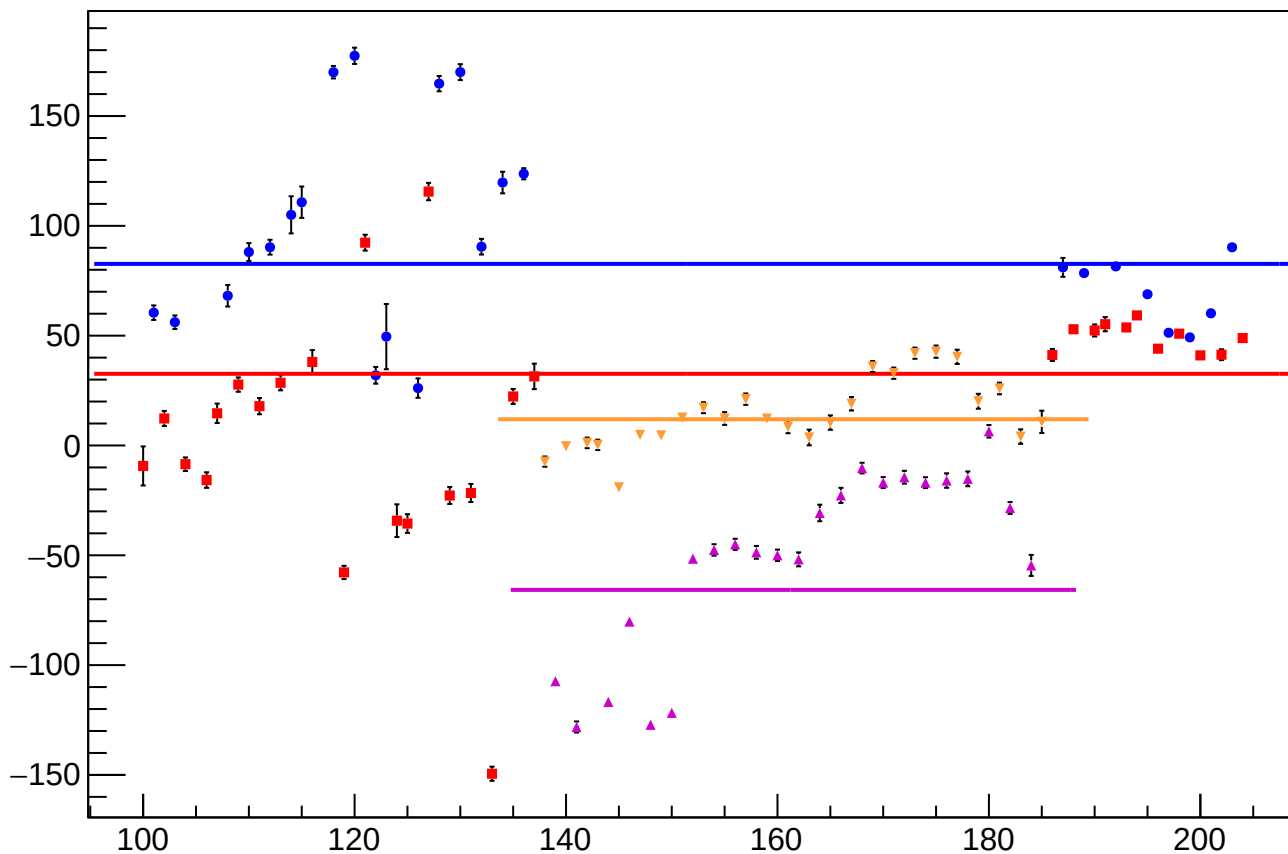
Right: 624.292 ± 0.086 $\chi^2/\text{NDF}: 237617.9/54$

In: 719.638 ± 0.095 $\chi^2/\text{NDF}: 1936729.1/47$

Out: 722.462 ± 0.091 $\chi^2/\text{NDF}: 1813079.9/54$

All: 721.119 ± 0.066 $\chi^2/\text{NDF}: 3750269.3/102$

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.678 ± 0.551 $\chi^2/\text{NDF}: 4386.2/24$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: 32.634 ± 0.511 $\chi^2/\text{NDF}: 6826.2/29$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

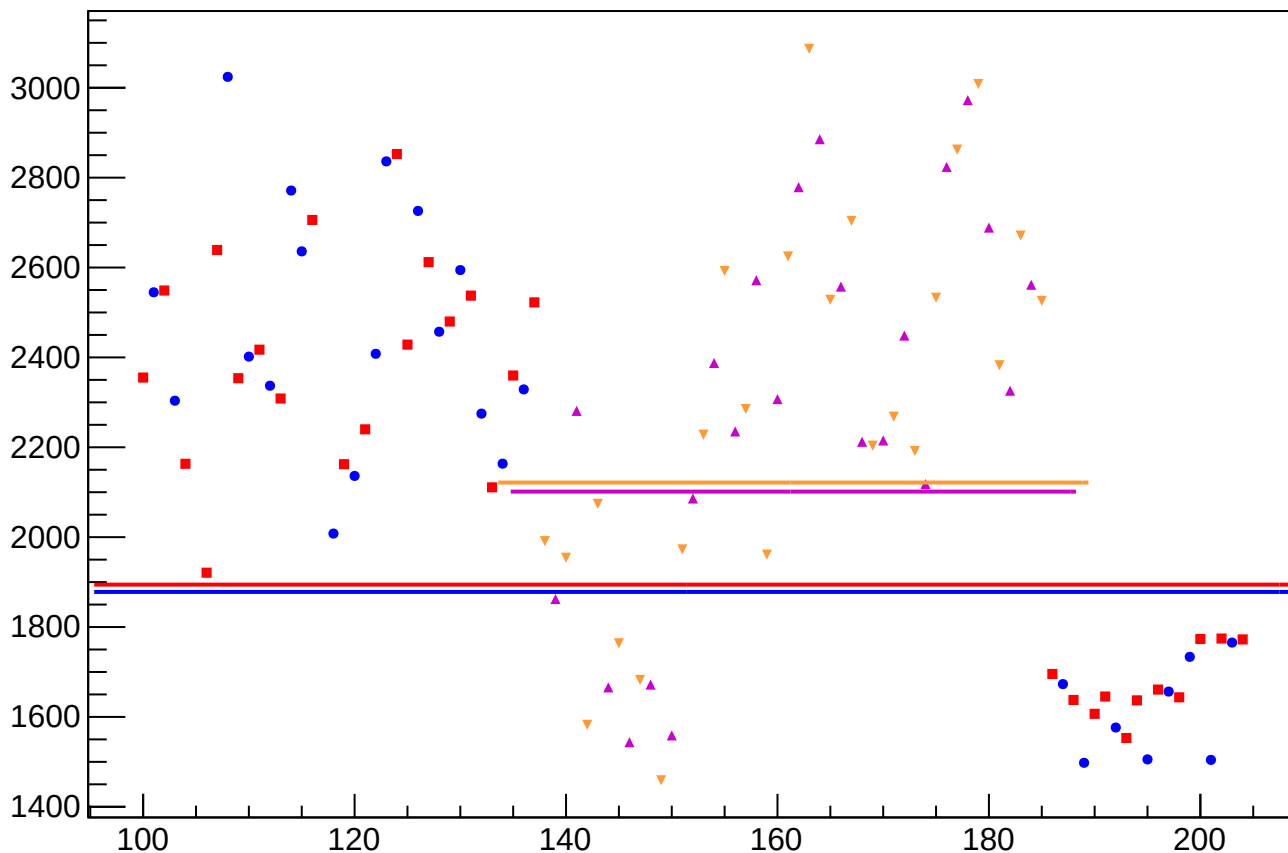
Right: 55.790 ± 0.375 $\chi^2/\text{NDF}: 15643.2/54$

In: 3.829 ± 0.377 $\chi^2/\text{NDF}: 50259.6/47$

Out: 22.162 ± 0.359 $\chi^2/\text{NDF}: 8631.6/54$

All: 13.440 ± 0.260 $\chi^2/\text{NDF}: 60129.0/102$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1878.120 ± 0.390 $\chi^2/\text{NDF}: 1071908.4/24$

Left Out: 2121.567 ± 0.357 $\chi^2/\text{NDF}: 1387847.6/24$

Right Out: 1894.392 ± 0.362 $\chi^2/\text{NDF}: 917306.6/29$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

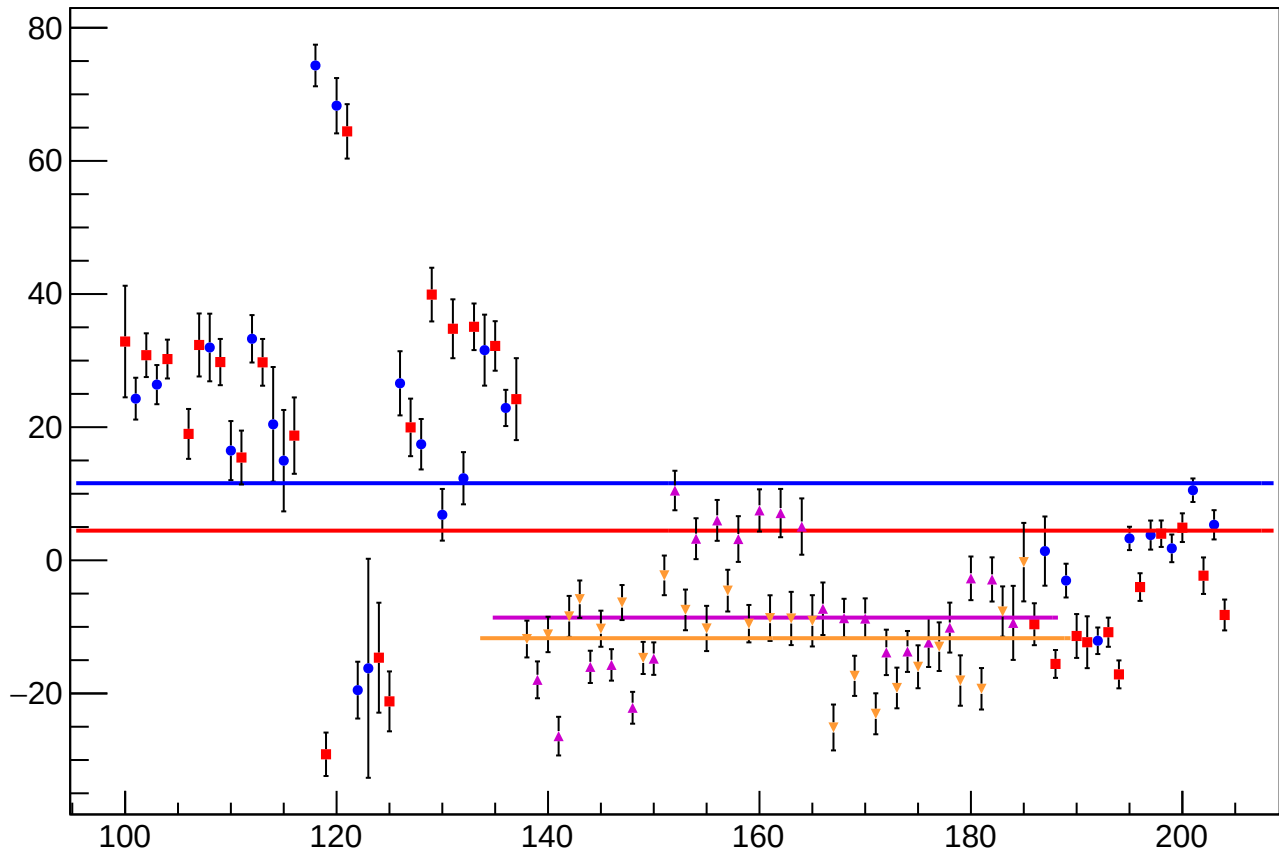
Right: 1886.863 ± 0.265 $\chi^2/\text{NDF}: 1990151.8/54$

In: 1996.692 ± 0.267 $\chi^2/\text{NDF}: 2606718.7/47$

Out: 2009.339 ± 0.254 $\chi^2/\text{NDF}: 2504847.1/54$

All: 2003.322 ± 0.184 $\chi^2/\text{NDF}: 5112743.8/100$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 11.583+/-0.599 χ^2/NDF : 1031.1/24

Left Out: -11.700+/-0.625 χ^2/NDF : 85.0/24

Right Out: 4.458+/-0.568 χ^2/NDF : 1321.2/29

Left In: -8.606+/-0.642 χ^2/NDF : 264.2/22

Left: -10.193+/-0.448 χ^2/NDF : 361.1/47

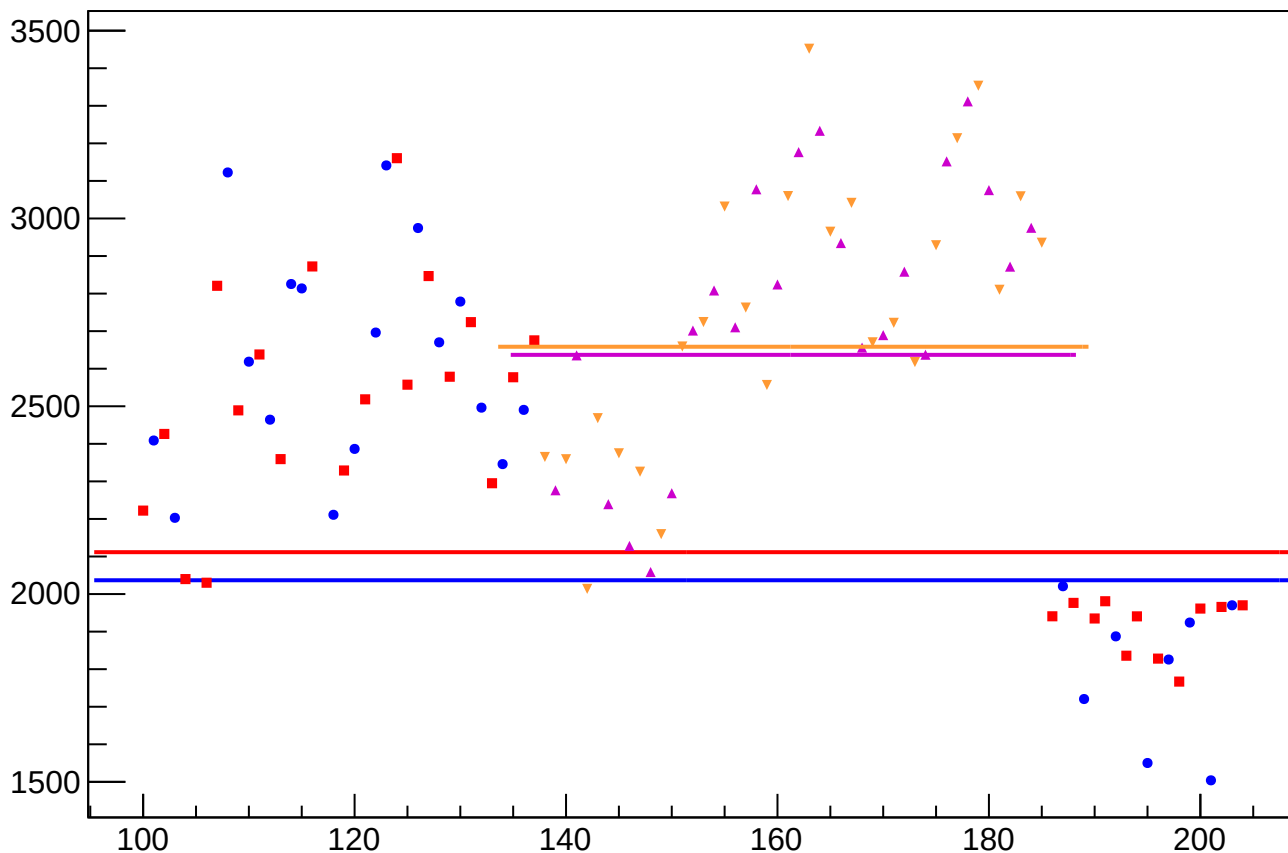
Right: 7.830+/-0.412 χ^2/NDF : 2426.9/54

In: 2.186+/-0.438 χ^2/NDF : 1824.1/47

Out: -2.843+/-0.420 χ^2/NDF : 1772.1/54

All: -0.431+/-0.303 χ^2/NDF : 3664.8/102

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2036.759 $\pm$ 0.424 χ^2 /NDF: 1002754.2/24

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2111.524 $\pm$ 0.402 χ^2 /NDF: 612870.5/29

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

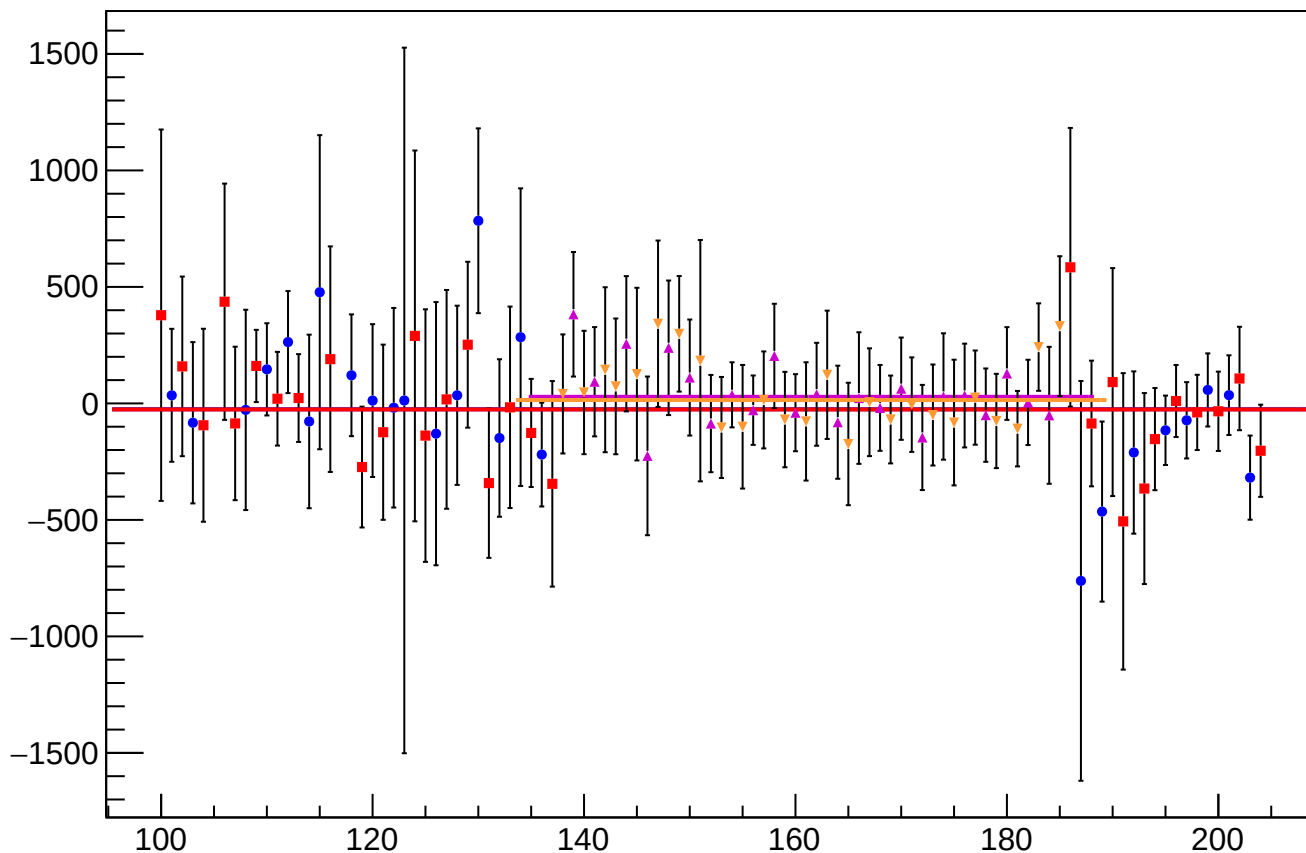
Right: 2076.135 $\pm$ 0.291 χ^2 /NDF: 1632036.2/54

In: 2316.071 $\pm$ 0.310 χ^2 /NDF: 2590094.4/47

Out: 2358.658 $\pm$ 0.297 χ^2 /NDF: 2069466.5/54

All: 2338.234 $\pm$ 0.214 χ^2 /NDF: 4669403.4/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -25.127 ± 52.462 $\chi^2/\text{NDF}: 14.6/24$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -25.986 ± 49.111 $\chi^2/\text{NDF}: 10.6/29$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

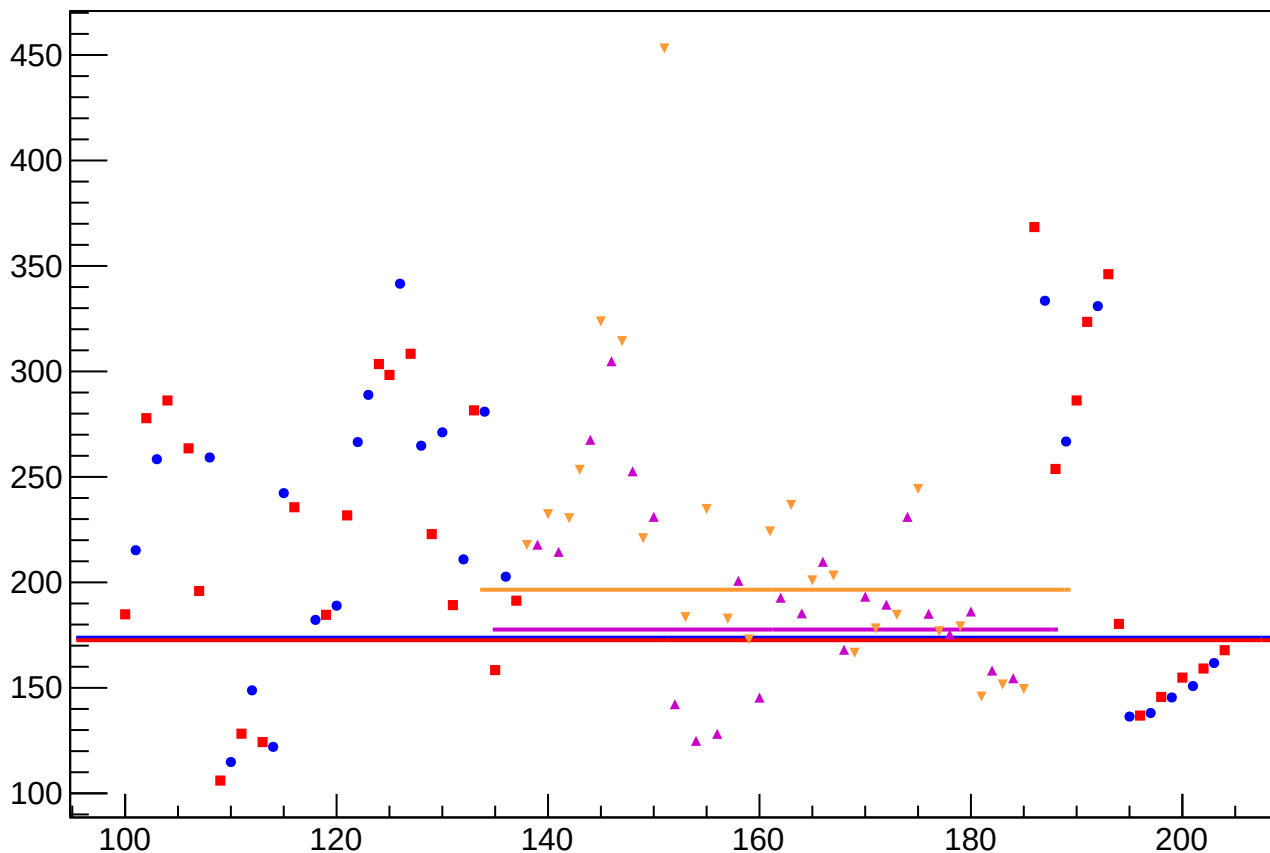
Right: -25.585 ± 35.853 $\chi^2/\text{NDF}: 25.2/54$

In: 5.869 ± 33.997 $\chi^2/\text{NDF}: 21.5/47$

Out: -5.070 ± 34.153 $\chi^2/\text{NDF}: 18.7/54$

All: 0.424 ± 24.095 $\chi^2/\text{NDF}: 40.3/102$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.780 $\pm$ 0.037 χ^2 /NDF: 2061543.8/24

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 172.589 $\pm$ 0.035 χ^2 /NDF: 2740998.0/29

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

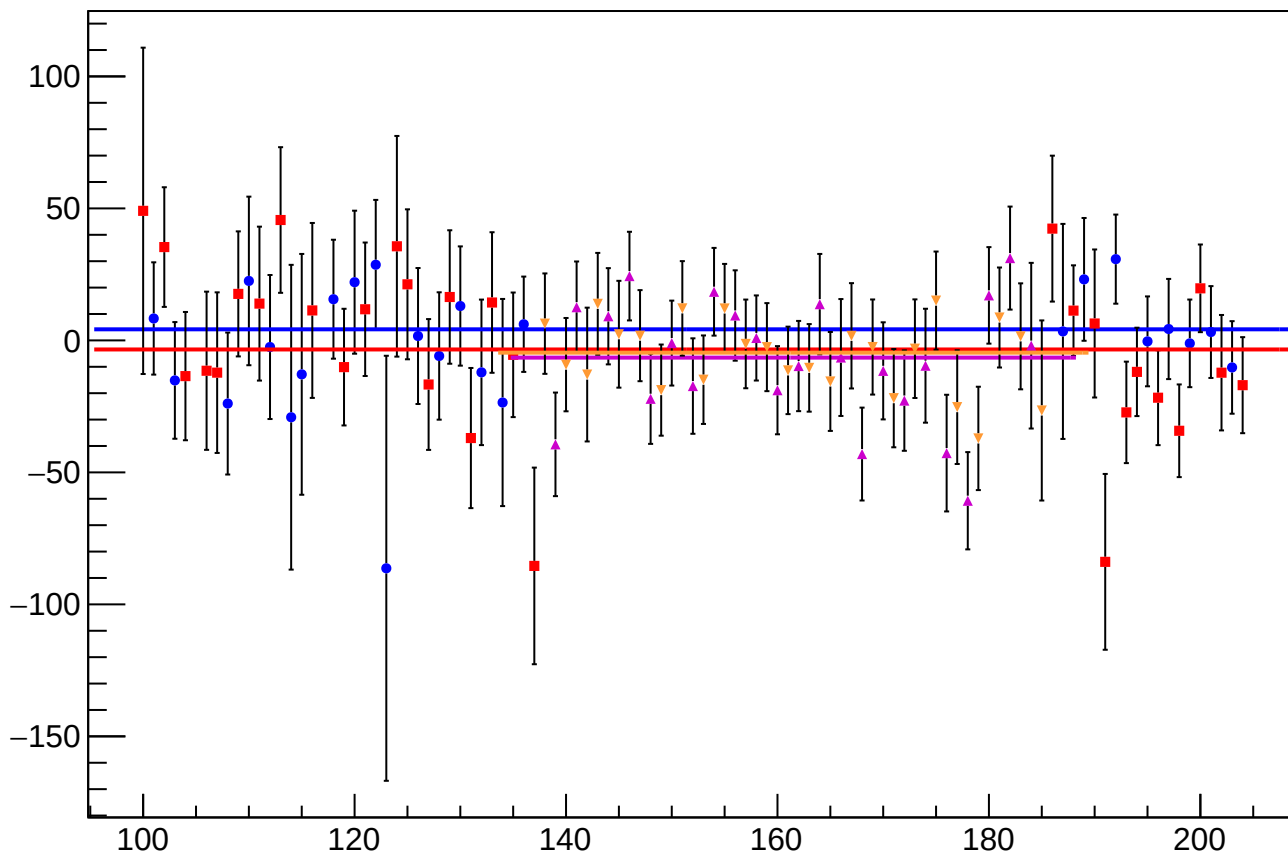
Right: 173.146 $\pm$ 0.025 χ^2 /NDF: 4803091.1/54

In: 176.021 $\pm$ 0.024 χ^2 /NDF:3698498.1/47

Out: 184.943 $\pm$ 0.024 χ^2 /NDF:4775598.7/54

All: 180.462 $\pm$ 0.017 χ^2 /NDF: 8542657.5/102

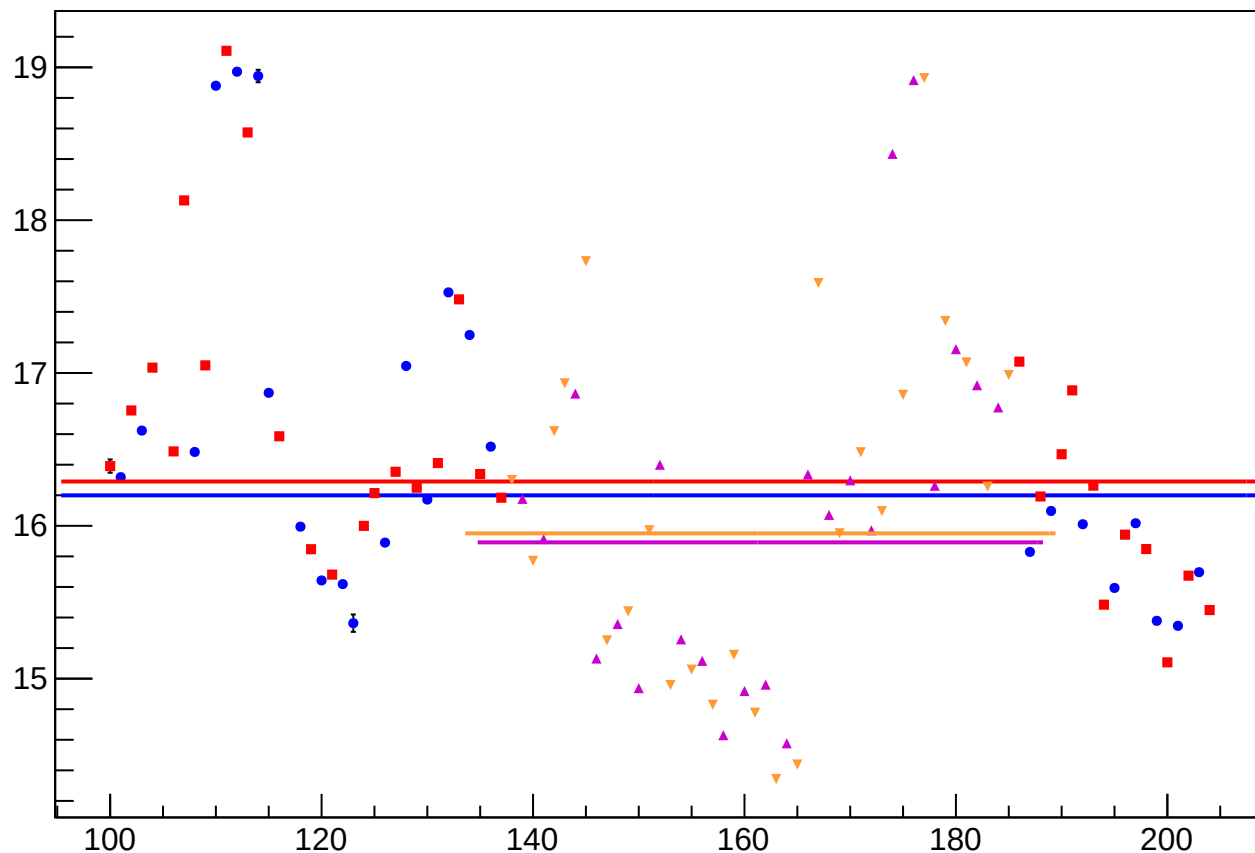
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.195 ± 4.638 $\chi^2/\text{NDF}: 10.9/24$
 Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$
 Right Out: -3.436 ± 4.324 $\chi^2/\text{NDF}: 36.4/29$
 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: 0.112 ± 3.163 $\chi^2/\text{NDF}: 48.7/54$
 In: -2.183 ± 2.952 $\chi^2/\text{NDF}: 50.5/47$
 Out: -4.130 ± 2.823 $\chi^2/\text{NDF}: 48.5/54$
 All: -3.200 ± 2.040 $\chi^2/\text{NDF}: 99.2/102$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.199 $\pm$ 0.003 χ^2 /NDF: 67042.5/24

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.290 $\pm$ 0.003 χ^2 /NDF: 75984.8/29

Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2 /NDF: 320794.5/47

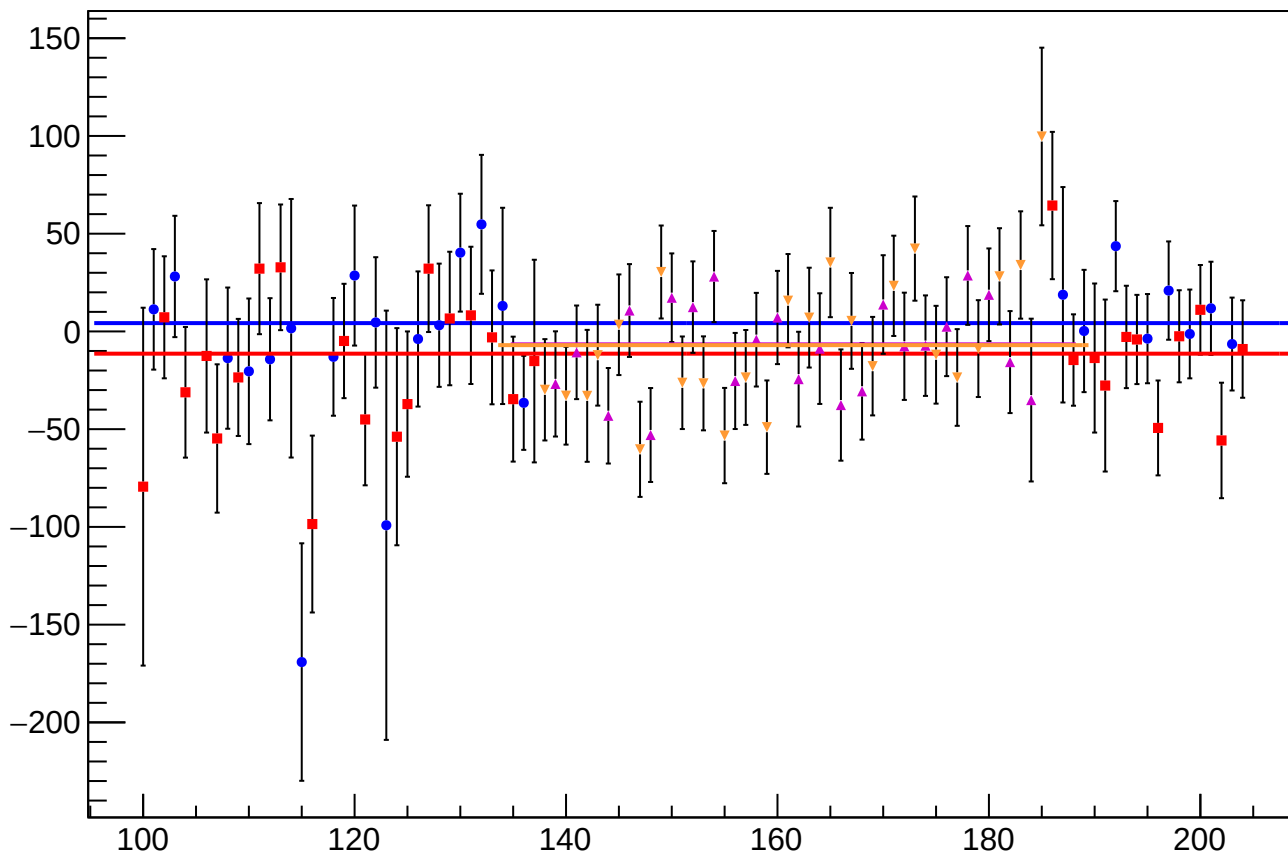
Right: 16.248 $\pm$ 0.002 χ^2 /NDF: 143435.7/54

In: 16.016 $\pm$ 0.002 χ^2 /NDF:219366.8/47

Out: 16.095 $\pm$ 0.002 χ^2 /NDF:256506.9/54

All: 16.058 $\pm$ 0.001 χ^2 /NDF: 476620.1/102

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.255 ± 6.198 $\chi^2/\text{NDF}: 21.8/24$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -11.382 ± 5.769 $\chi^2/\text{NDF}: 25.3/29$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

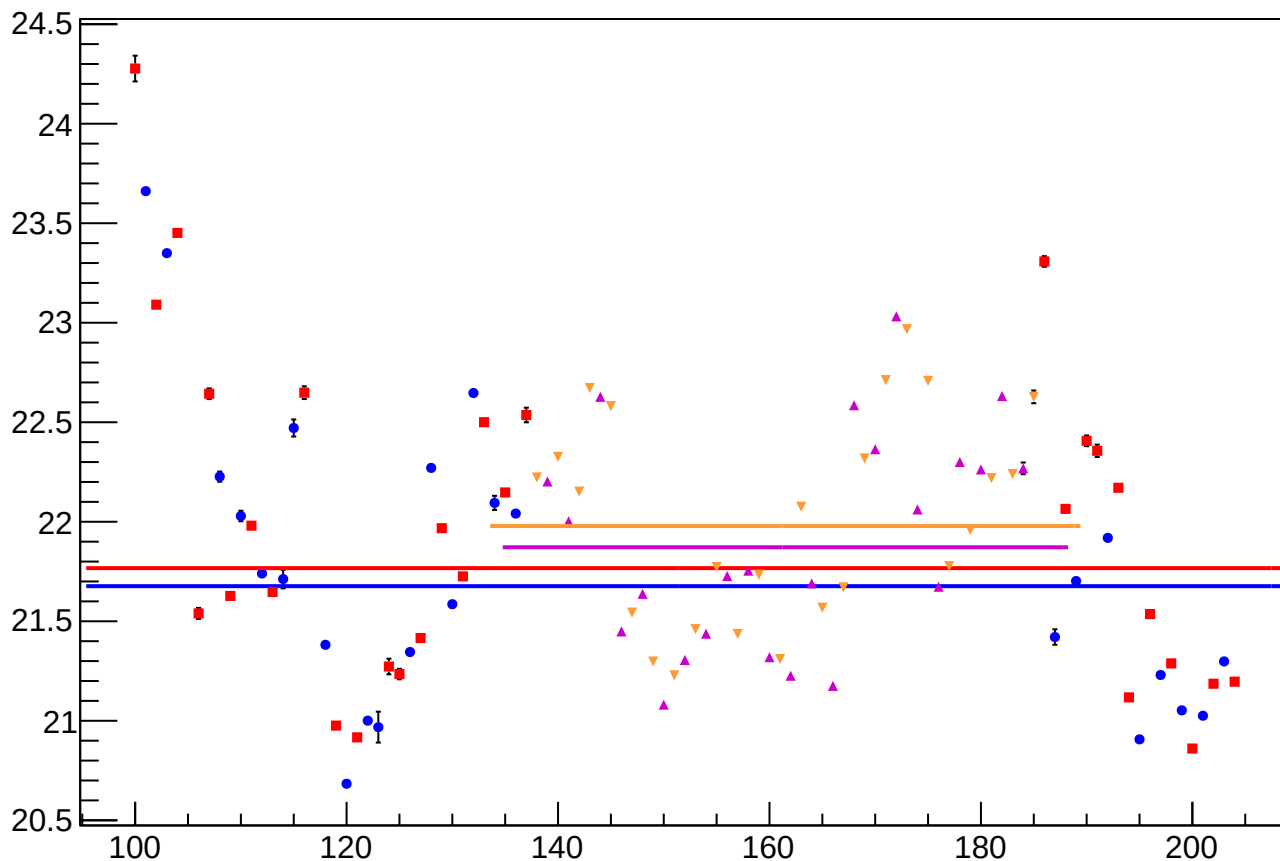
Right: -4.123 ± 4.223 $\chi^2/\text{NDF}: 50.6/54$

In: -2.071 ± 4.007 $\chi^2/\text{NDF}: 42.8/47$

Out: -8.941 ± 3.830 $\chi^2/\text{NDF}: 63.1/54$

All: -5.661 ± 2.769 $\chi^2/\text{NDF}: 107.4/102$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.676+/-0.004 χ^2/NDF : 27411.5/24

Left Out: 21.978+/-0.004 χ^2/NDF : 19430.2/24

Right Out: 21.767+/-0.004 χ^2/NDF : 30120.7/29

Left In: 21.872+/-0.004 χ^2/NDF : 20524.9/22

Left: 21.926+/-0.003 χ^2/NDF : 40377.5/47

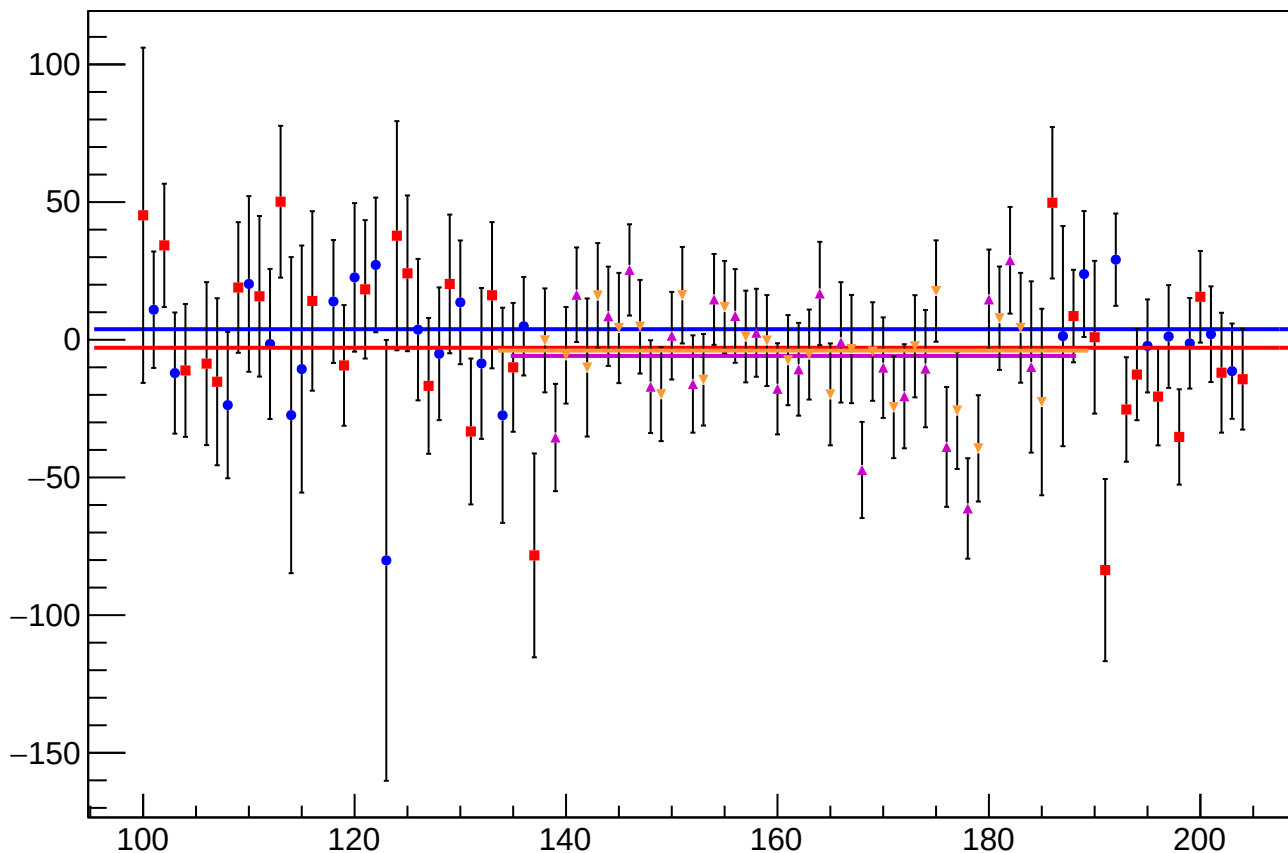
Right: 21.725+/-0.003 χ^2/NDF : 57761.0/54

In: 21.790+/-0.003 χ^2/NDF : 49093.6/47

Out: 21.885+/-0.003 χ^2/NDF : 51053.3/54

All: 21.840+/-0.002 χ^2/NDF : 100735.3/102

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.843 $\pm$ 4.603 χ^2 /NDF: 10.4/24

Left Out: -3.927 $\pm$ 3.688 χ^2 /NDF:14.0/24

Right Out: -2.902 $\pm$ 4.293 χ^2 /NDF: 37.0/29

Left In: -5.861 $\pm$ 3.787 χ^2 /NDF:36.2/22

Left: -4.869 $\pm$ 2.642 χ^2 /NDF: 50.3/47

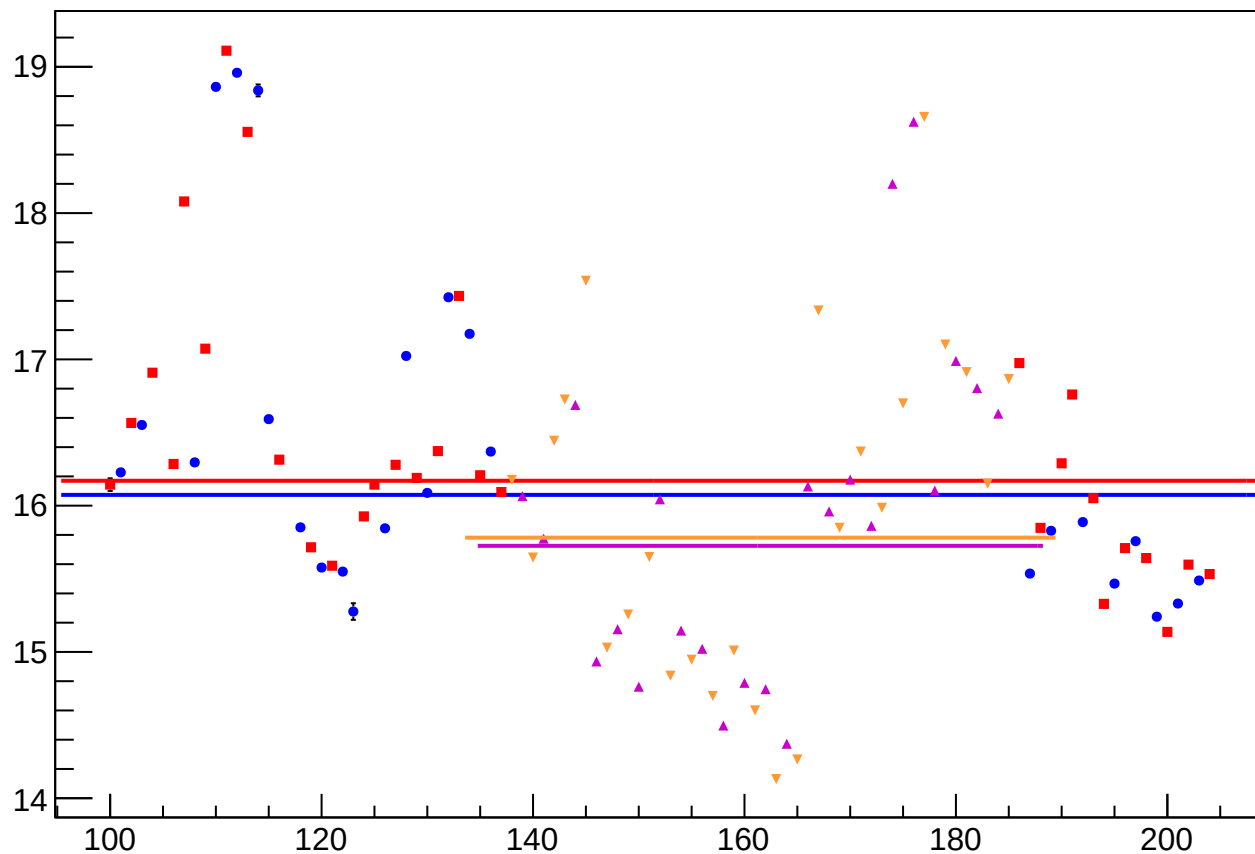
Right: 0.236 $\pm$ 3.139 χ^2 /NDF: 48.5/54

In: -1.944 $\pm$ 2.924 χ^2 /NDF:49.2/47

Out: -3.492 $\pm$ 2.797 χ^2 /NDF:51.0/54

All: -2.752 $\pm$ 2.021 χ^2 /NDF: 100.4/102

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.074 $\pm$ 0.003 χ^2 /NDF: 71115.6/24

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 16.170 $\pm$ 0.003 χ^2 /NDF: 78503.4/29

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

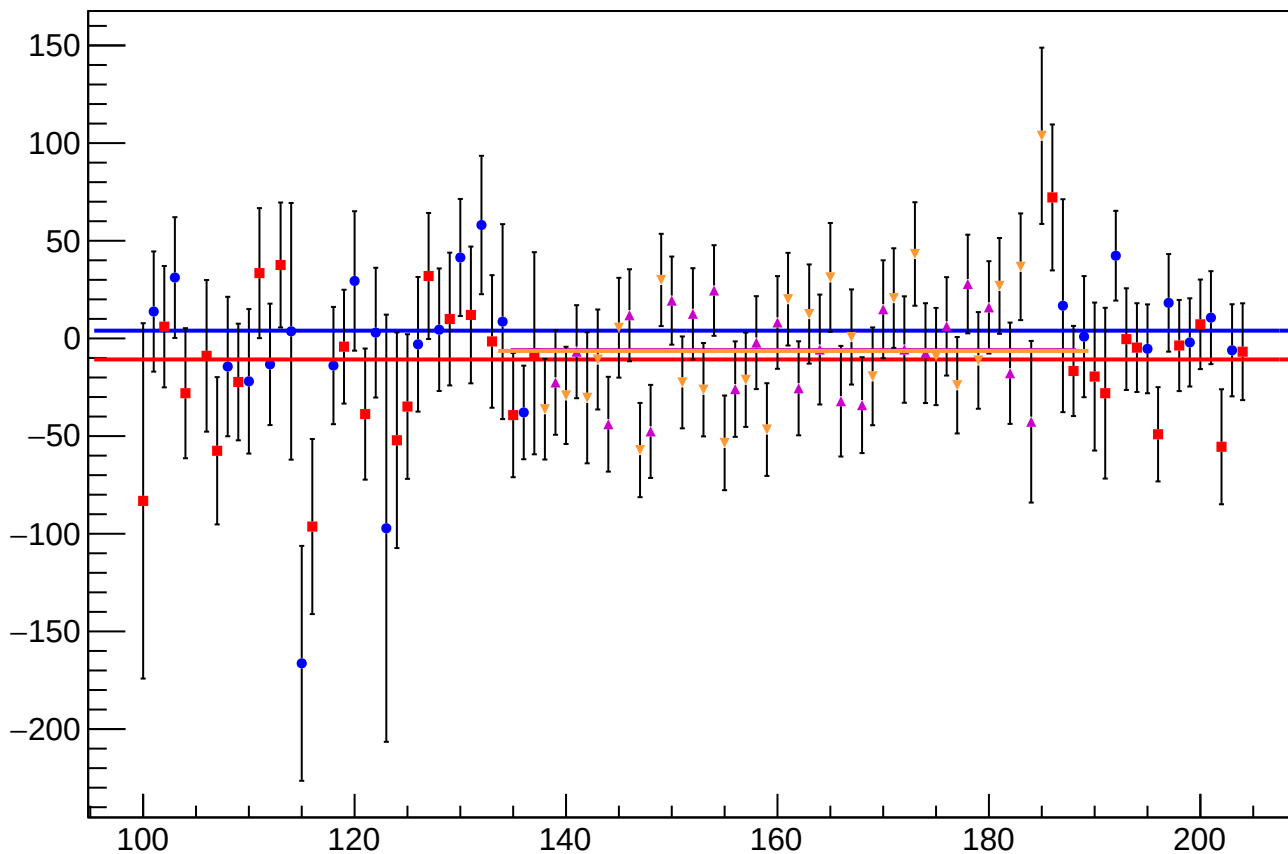
Right: 16.125 $\pm$ 0.002 χ^2 /NDF: 150089.8/54

In: 15.866 $\pm$ 0.002 χ^2 /NDF:223776.5/47

Out: 15.946 $\pm$ 0.002 χ^2 /NDF:260845.6/54

All: 15.908 $\pm$ 0.001 χ^2 /NDF: 485412.7/102

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.979 ± 6.168 $\chi^2/\text{NDF}: 22.4/24$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -10.764 ± 5.737 $\chi^2/\text{NDF}: 26.7/29$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

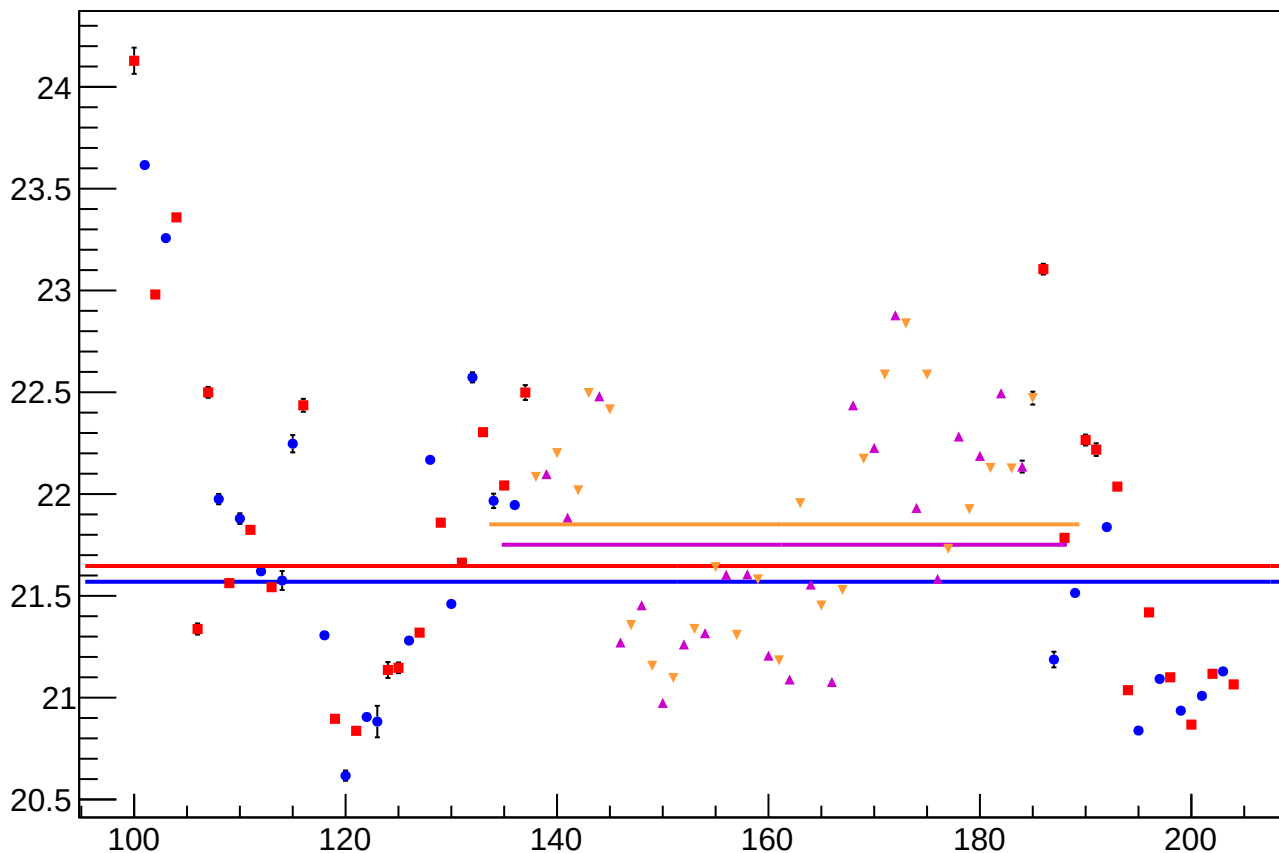
Right: -3.925 ± 4.201 $\chi^2/\text{NDF}: 52.1/54$

In: -1.820 ± 3.986 $\chi^2/\text{NDF}: 42.4/47$

Out: -8.325 ± 3.808 $\chi^2/\text{NDF}: 64.4/54$

All: -5.221 ± 2.753 $\chi^2/\text{NDF}: 108.2/102$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.569 $\pm$ 0.004 χ^2 /NDF: 27601.0/24

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.647 $\pm$ 0.004 χ^2 /NDF: 28457.1/29

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

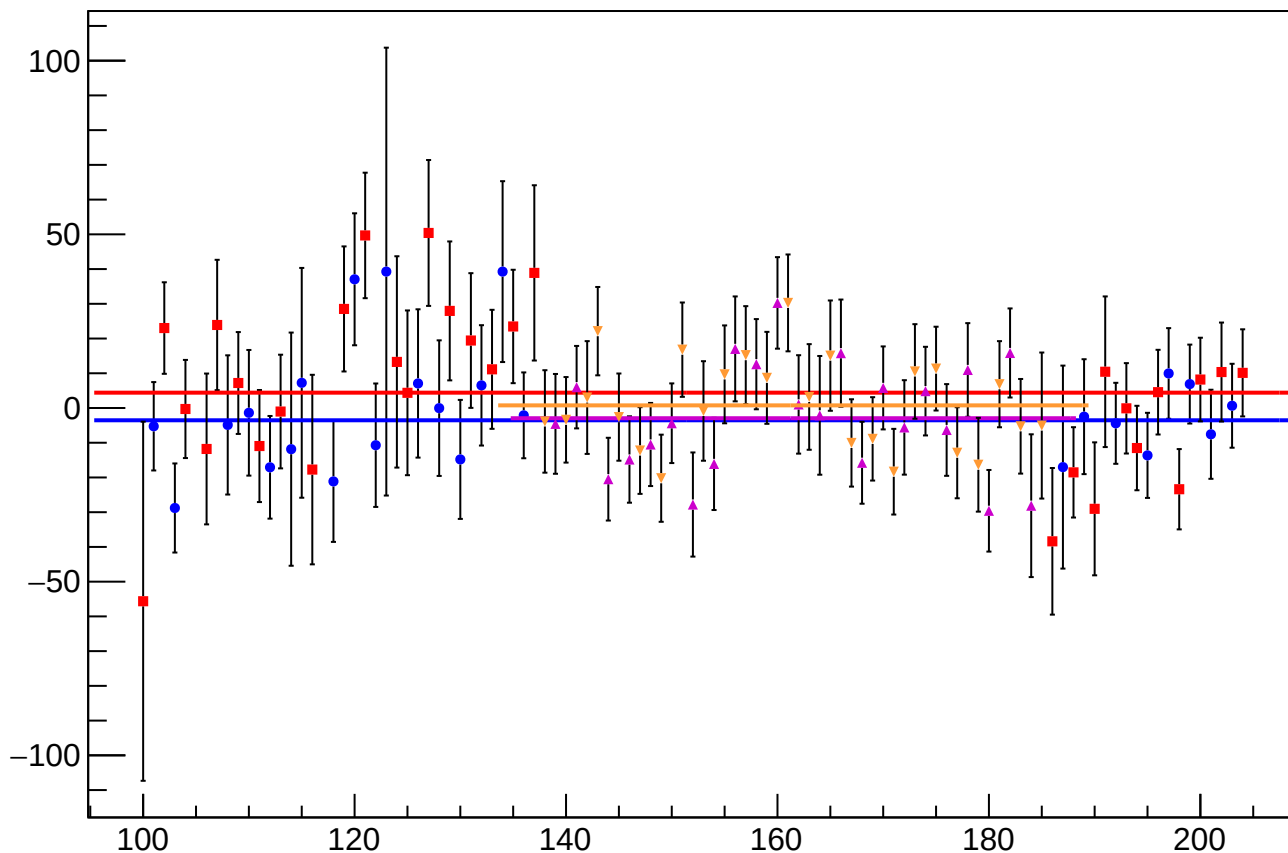
Right: 21.611 $\pm$ 0.003 χ^2 /NDF: 56227.3/54

In: 21.675 $\pm$ 0.003 χ^2 /NDF:49131.0/47

Out: 21.761 $\pm$ 0.003 χ^2 /NDF:49509.0/54

All: 21.720 $\pm$ 0.002 χ^2 /NDF: 99125.2/102

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.536 ± 3.184 $\chi^2/\text{NDF}: 17.9/24$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 4.415 ± 2.976 $\chi^2/\text{NDF}: 43.6/29$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

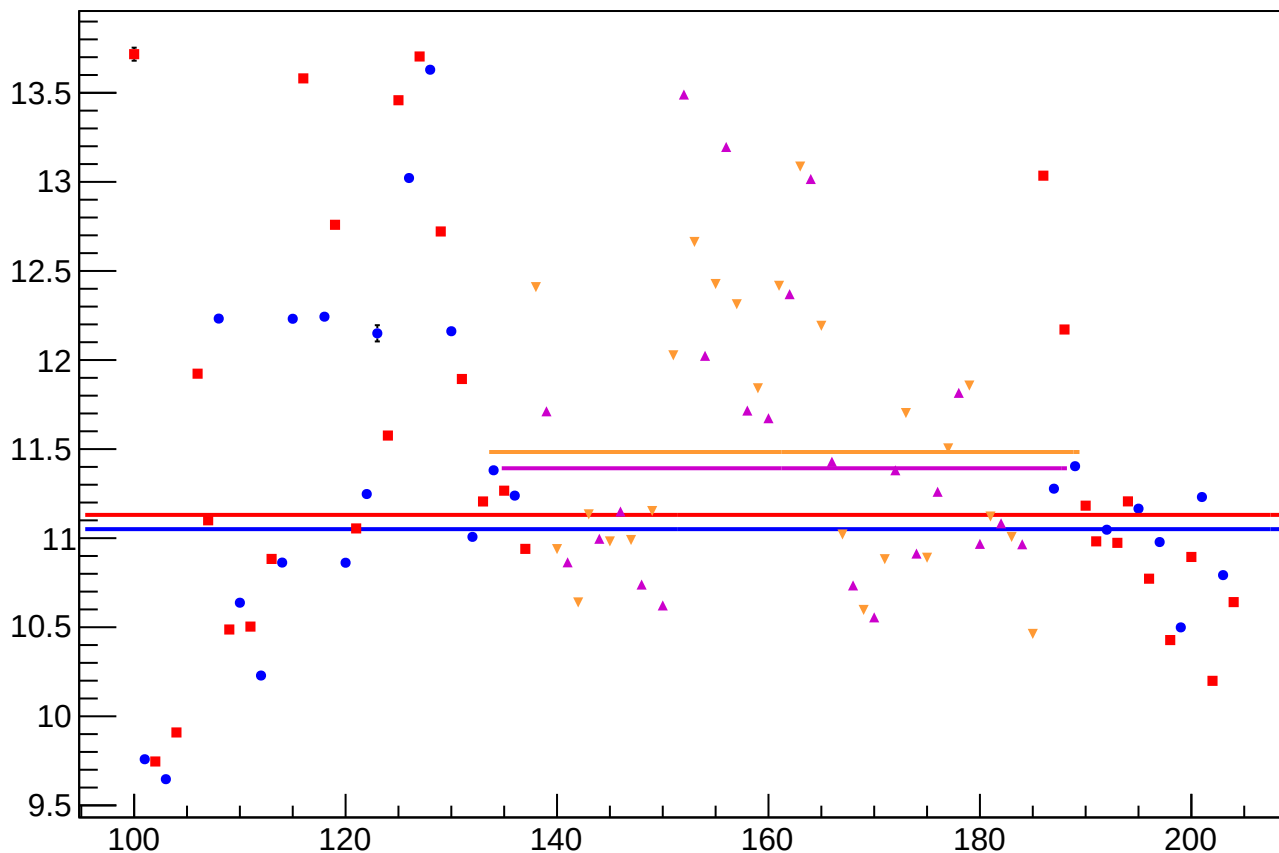
Right: 0.708 ± 2.174 $\chi^2/\text{NDF}: 64.8/54$

In: -3.198 ± 2.084 $\chi^2/\text{NDF}: 48.9/47$

Out: 2.409 ± 1.999 $\chi^2/\text{NDF}: 68.2/54$

All: -0.277 ± 1.443 $\chi^2/\text{NDF}: 120.8/102$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.051 ± 0.002 $\chi^2/\text{NDF}: 140241.5/24$

Left Out: 11.484 ± 0.002 $\chi^2/\text{NDF}: 129805.4/24$

Right Out: 11.131 ± 0.002 $\chi^2/\text{NDF}: 201367.7/29$

Left In: 11.392 ± 0.002 $\chi^2/\text{NDF}: 150493.3/22$

Left: 11.439 ± 0.001 $\chi^2/\text{NDF}: 281419.2/47$

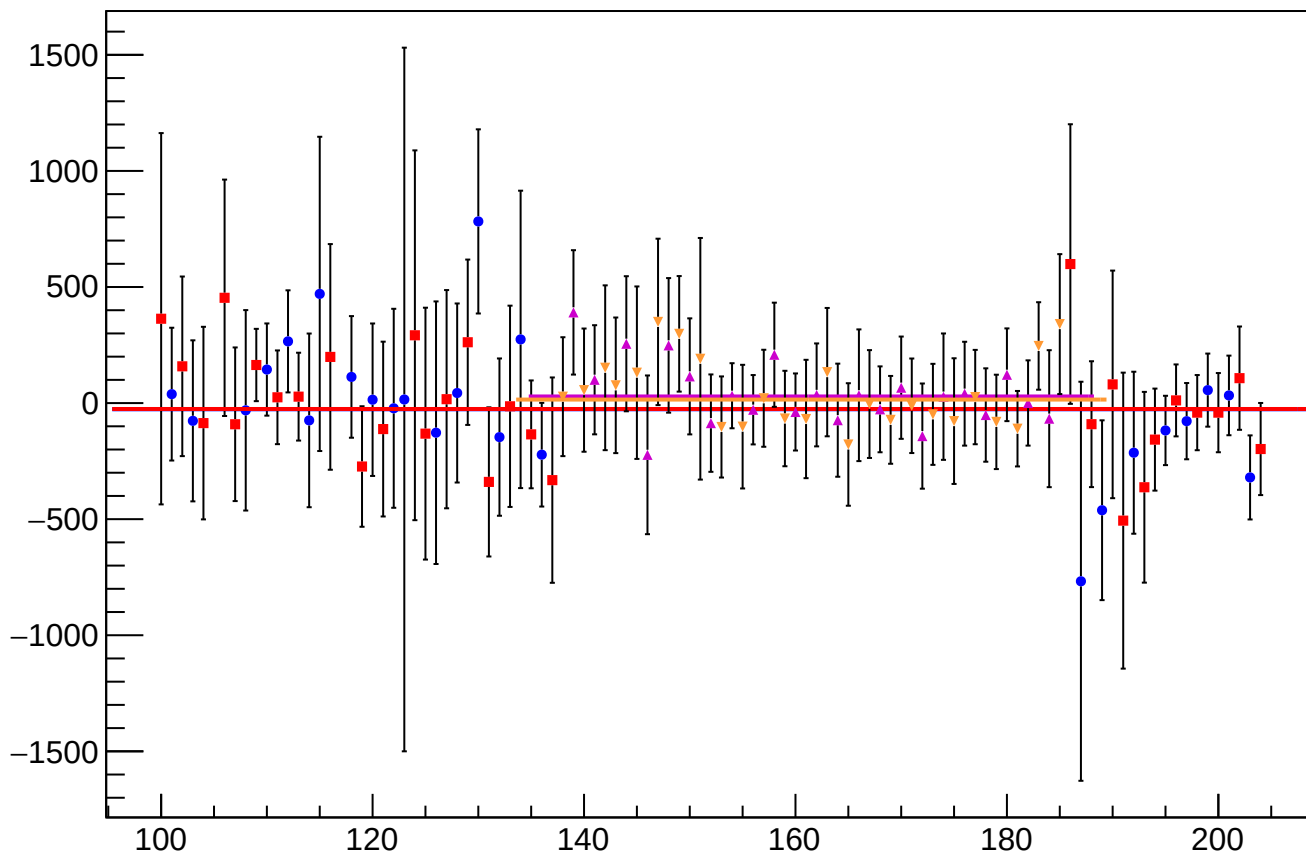
Right: 11.093 ± 0.002 $\chi^2/\text{NDF}: 342283.3/54$

In: 11.246 ± 0.001 $\chi^2/\text{NDF}: 303900.5/47$

Out: 11.324 ± 0.001 $\chi^2/\text{NDF}: 346621.6/54$

All: 11.287 ± 0.001 $\chi^2/\text{NDF}: 651999.6/102$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -26.680 ± 52.599 $\chi^2/\text{NDF}: 14.6/24$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -25.412 ± 49.246 $\chi^2/\text{NDF}: 10.7/29$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

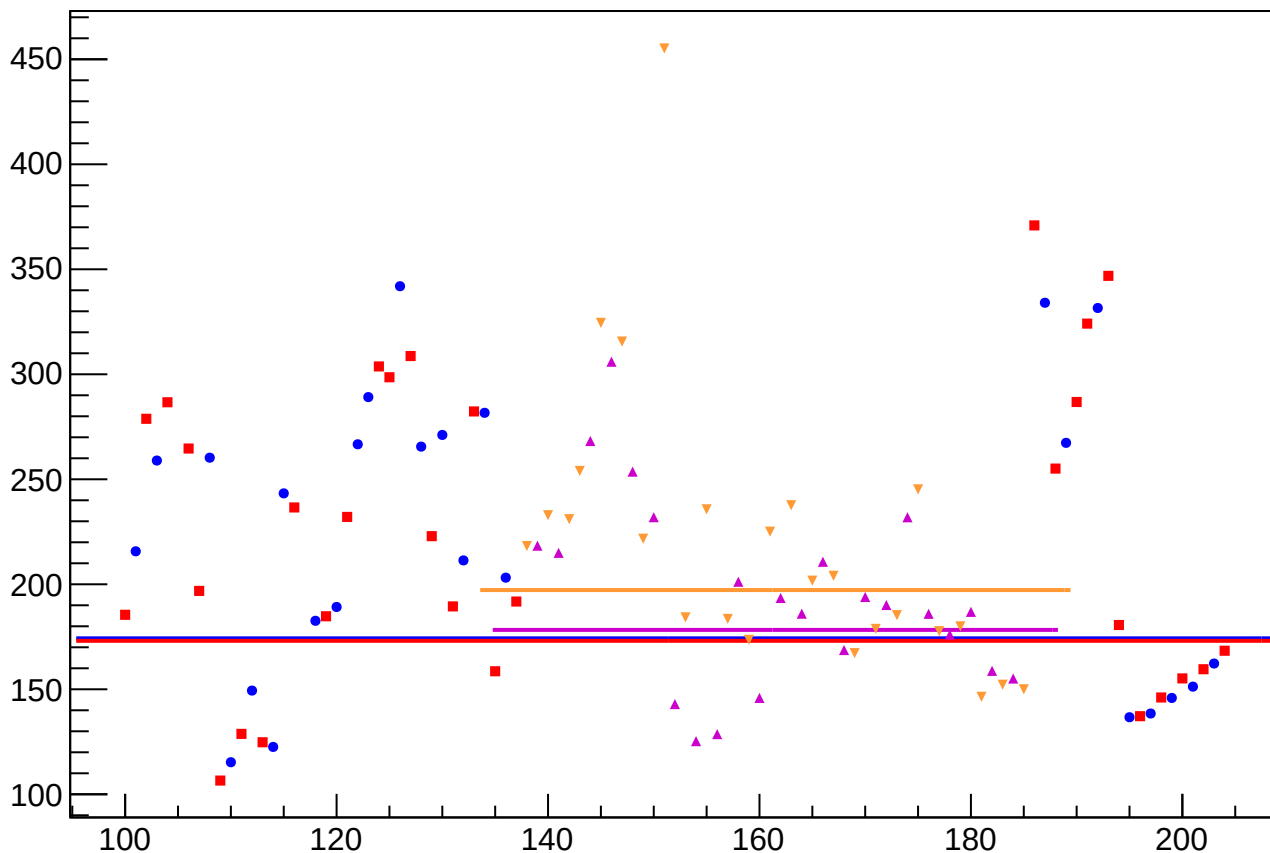
Right: -26.004 ± 35.949 $\chi^2/\text{NDF}: 25.3/54$

In: 5.302 ± 34.104 $\chi^2/\text{NDF}: 21.6/47$

Out: -4.497 ± 34.264 $\chi^2/\text{NDF}: 19.0/54$

All: 0.426 ± 24.172 $\chi^2/\text{NDF}: 40.7/102$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.256 $\pm$ 0.037 χ^2 /NDF: 2056155.0/24

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 173.081 $\pm$ 0.035 χ^2 /NDF: 2736934.4/29

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

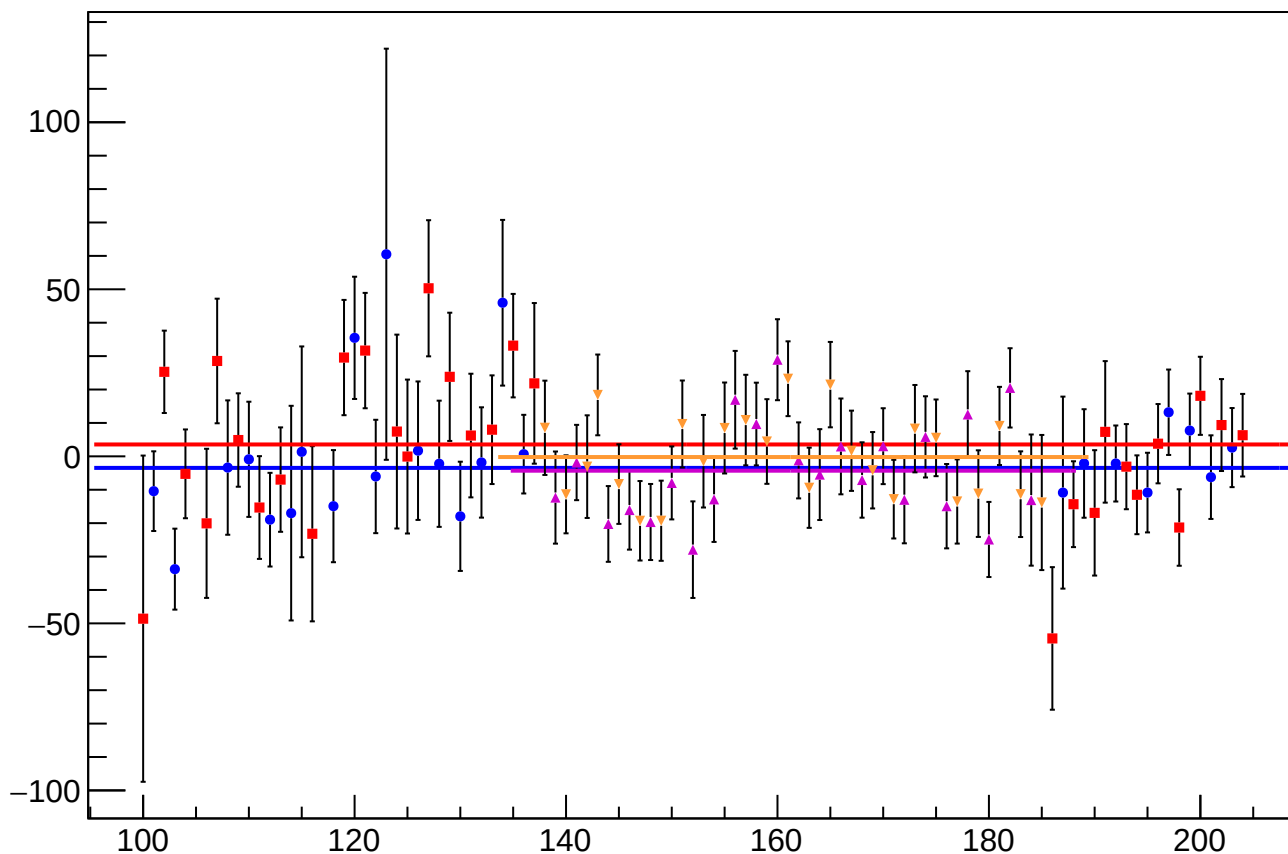
Right: 173.630 $\pm$ 0.025 χ^2 /NDF: 4793621.3/54

In: 176.586 $\pm$ 0.024 χ^2 /NDF:3691846.9/47

Out: 185.549 $\pm$ 0.024 χ^2 /NDF:4772257.0/54

All: 181.047 $\pm$ 0.017 χ^2 /NDF: 8532845.2/102

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.459 ± 3.072 $\chi^2/\text{NDF}: 22.6/24$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 3.554 ± 2.881 $\chi^2/\text{NDF}: 45.2/29$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

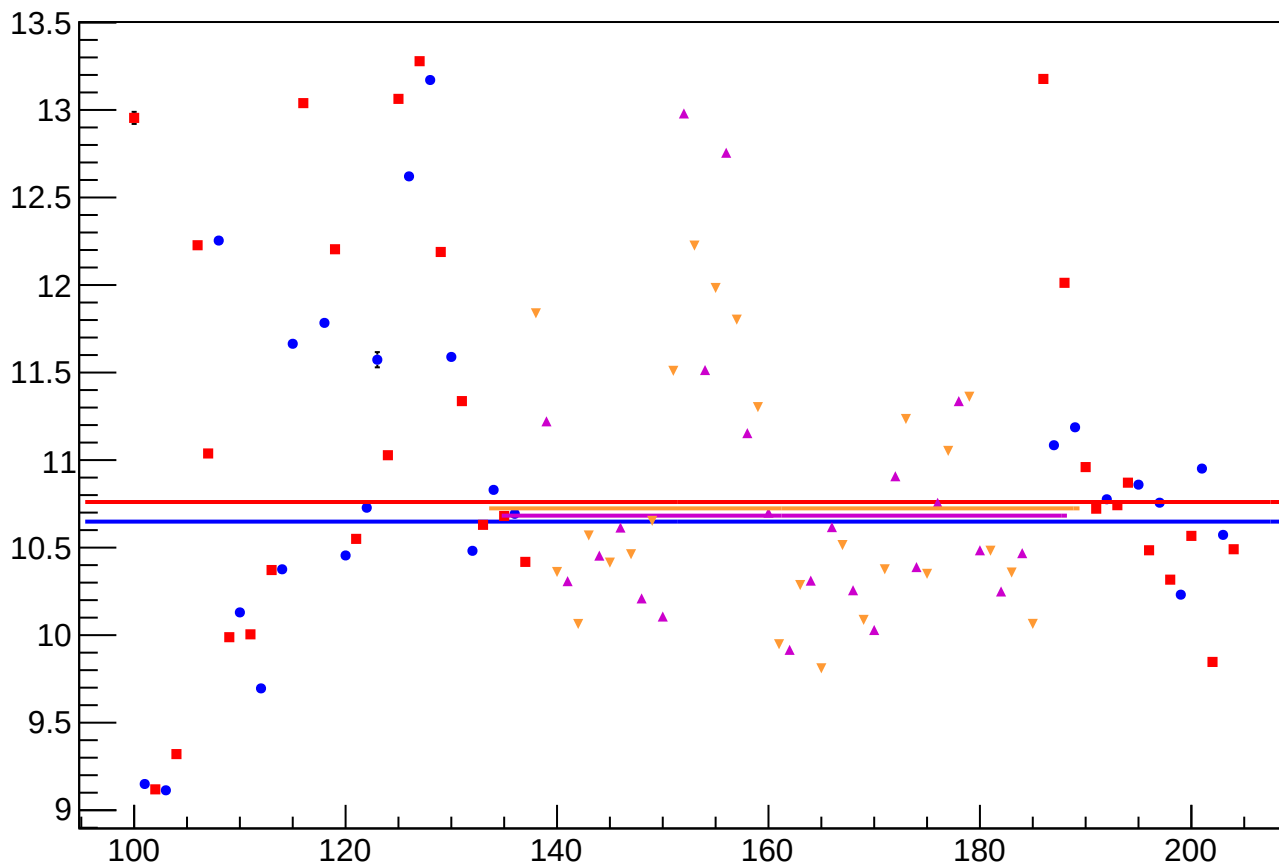
Right: 0.273 ± 2.102 $\chi^2/\text{NDF}: 70.6/54$

In: -3.949 ± 1.980 $\chi^2/\text{NDF}: 54.2/47$

Out: 1.424 ± 1.898 $\chi^2/\text{NDF}: 70.7/54$

All: -1.150 ± 1.370 $\chi^2/\text{NDF}: 128.8/102$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.649 $\pm$ 0.002 χ^2 /NDF: 168057.7/24

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.761 $\pm$ 0.002 χ^2 /NDF: 237373.5/29

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

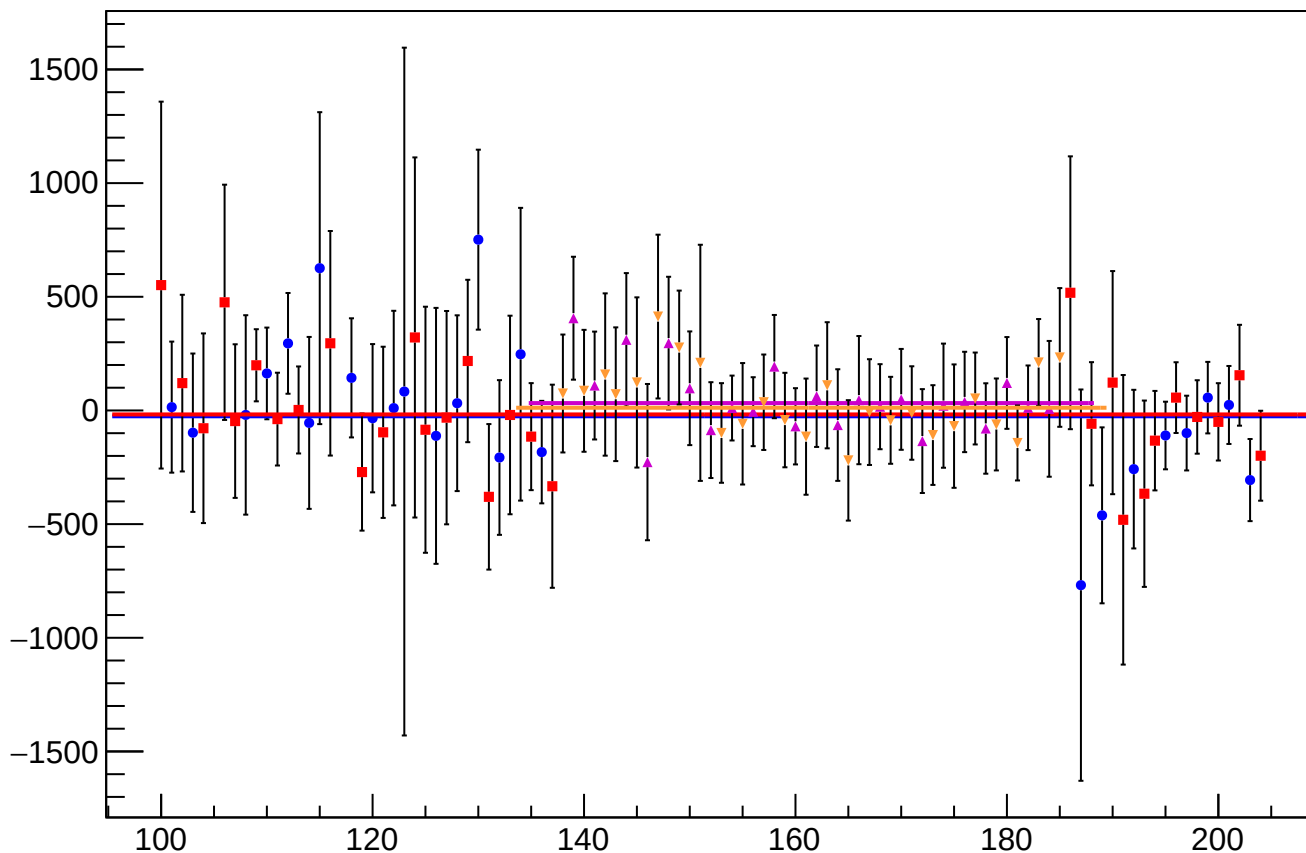
Right: 10.708 $\pm$ 0.001 χ^2 /NDF: 406845.6/54

In: 10.668 $\pm$ 0.001 χ^2 /NDF:316037.1/47

Out: 10.740 $\pm$ 0.001 χ^2 /NDF:370112.7/54

All: 10.706 $\pm$ 0.001 χ^2 /NDF: 687509.1/102

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -25.693 ± 52.713 $\chi^2/\text{NDF}: 15.0/24$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -17.519 ± 49.446 $\chi^2/\text{NDF}: 11.6/29$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

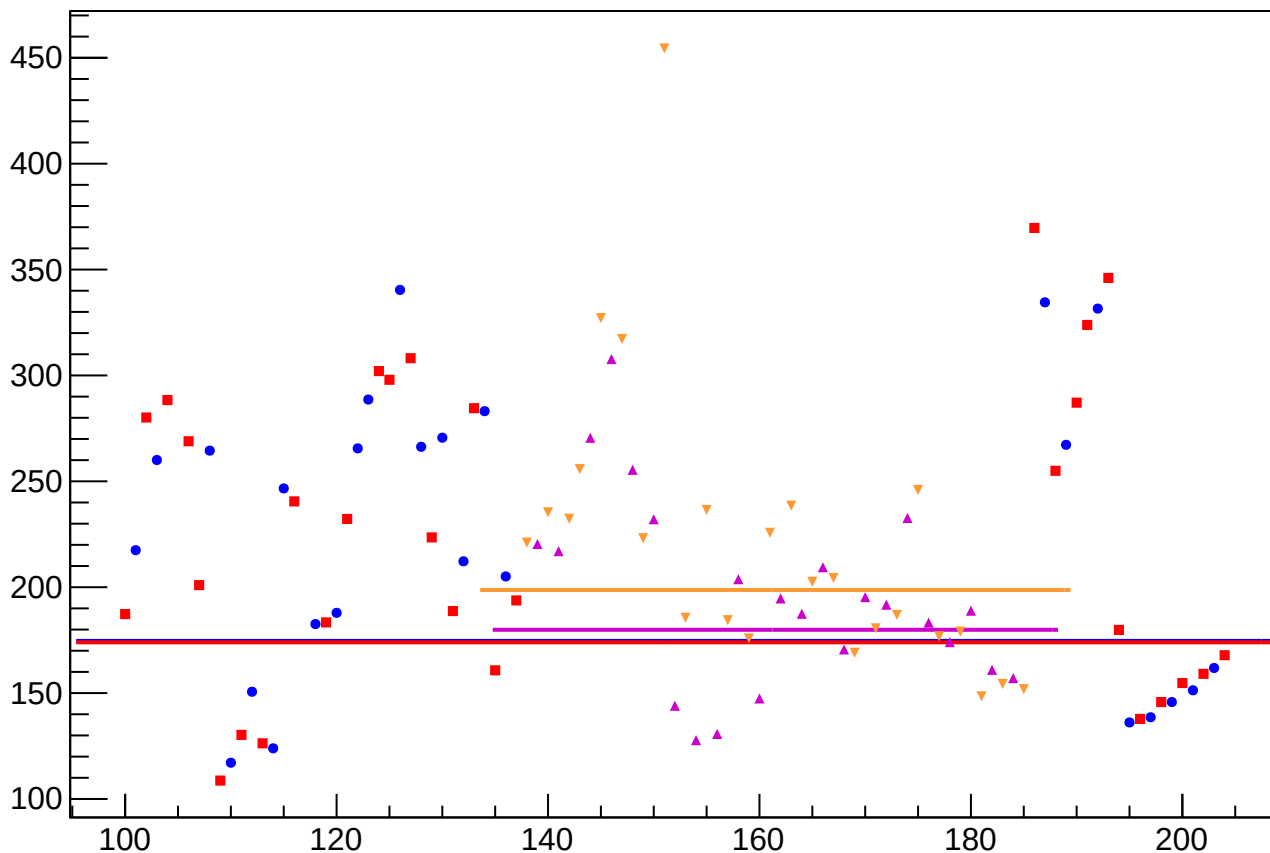
Right: -21.345 ± 36.063 $\chi^2/\text{NDF}: 26.6/54$

In: 7.821 ± 34.293 $\chi^2/\text{NDF}: 22.6/47$

Out: -2.385 ± 34.449 $\chi^2/\text{NDF}: 19.4/54$

All: 2.741 ± 24.304 $\chi^2/\text{NDF}: 42.0/102$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.643 $\pm$ 0.037 χ^2 /NDF: 2053205.7/24

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 173.968 $\pm$ 0.035 χ^2 /NDF: 2691781.8/29

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

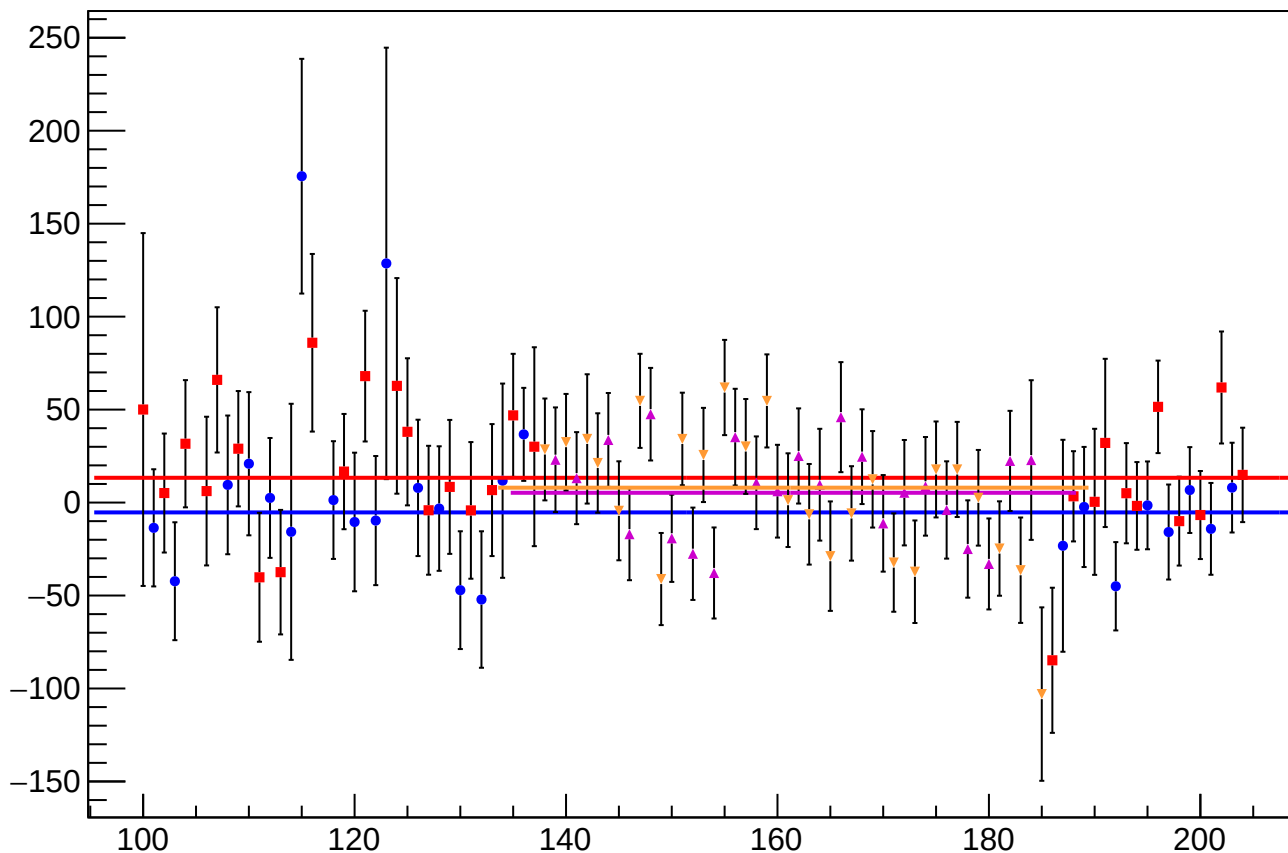
Right: 174.284 $\pm$ 0.026 χ^2 /NDF: 4745161.9/54

In: 177.667 $\pm$ 0.024 χ^2 /NDF:3645256.8/47

Out: 186.692 $\pm$ 0.024 χ^2 /NDF:4708484.4/54

All: 182.159 $\pm$ 0.017 χ^2 /NDF: 8422692.2/102

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.295 ± 6.405 $\chi^2/\text{NDF}: 22.0/24$

Left Out: 8.004 ± 5.334 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 13.327 ± 5.968 $\chi^2/\text{NDF}: 28.7/29$

Left In: 5.261 ± 5.465 $\chi^2/\text{NDF}: 20.8/22$

Left: 6.665 ± 3.817 $\chi^2/\text{NDF}: 58.3/47$

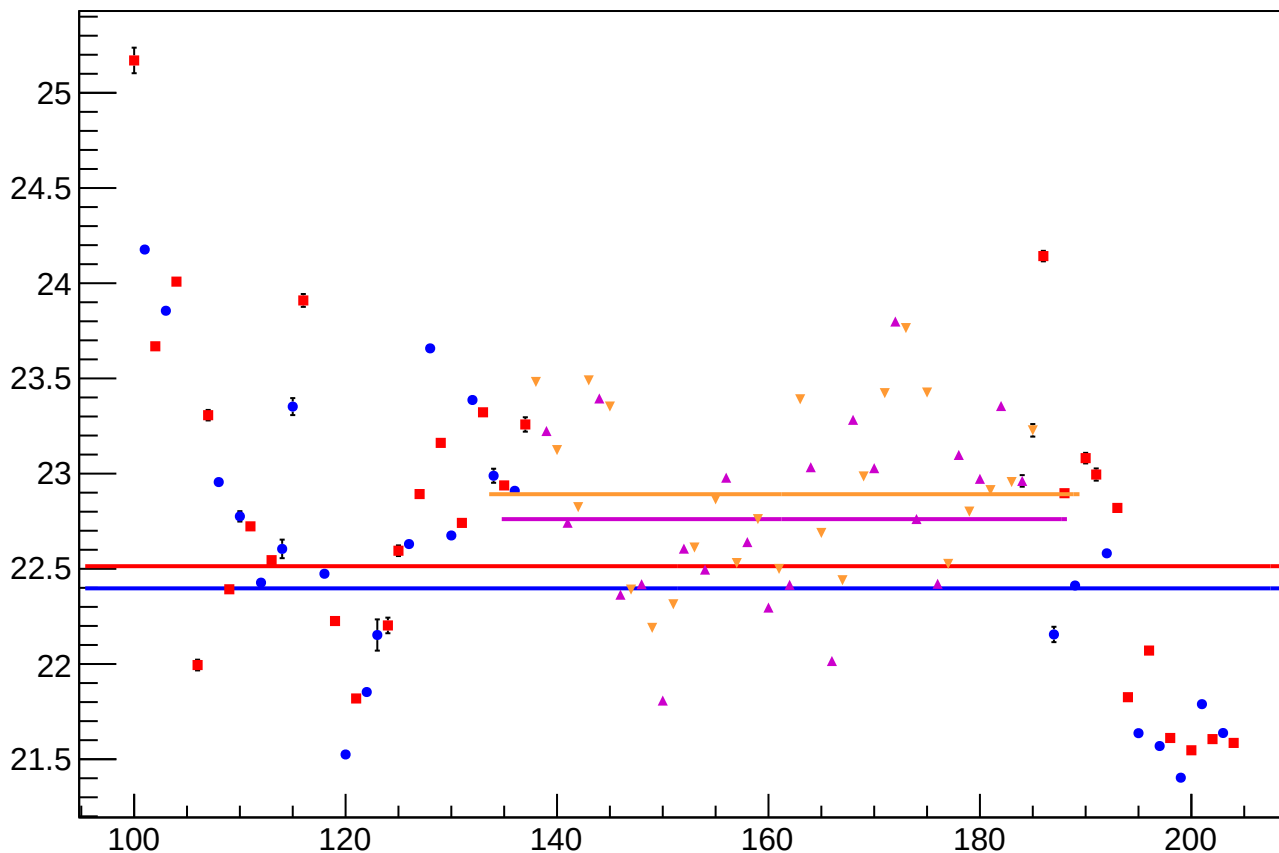
Right: 4.673 ± 4.366 $\chi^2/\text{NDF}: 55.2/54$

In: 0.814 ± 4.157 $\chi^2/\text{NDF}: 44.3/47$

Out: 10.368 ± 3.977 $\chi^2/\text{NDF}: 66.6/54$

All: 5.802 ± 2.874 $\chi^2/\text{NDF}: 113.7/102$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.397+/-0.005 χ^2/NDF : 30189.3/24

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.514+/-0.004 χ^2/NDF : 32593.8/29

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

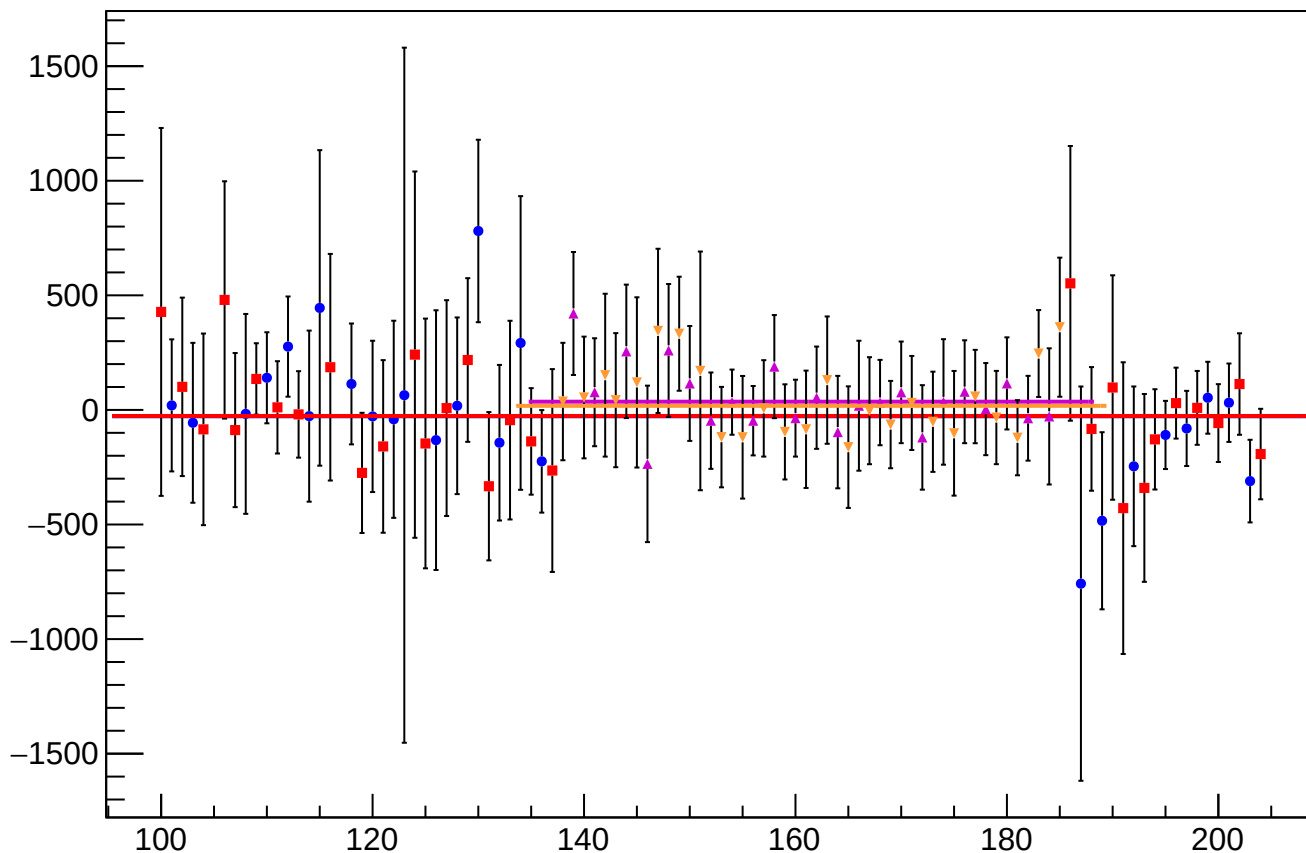
Right: 22.460+/-0.003 χ^2/NDF : 63136.6/54

In: 22.608+/-0.003 χ^2/NDF :48467.9/47

Out: 22.724+/-0.003 χ^2/NDF :50052.8/54

All: 22.668+/-0.002 χ^2/NDF : 99336.6/102

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -27.618 ± 52.559 $\chi^2/\text{NDF}: 14.5/24$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -26.373 ± 49.211 $\chi^2/\text{NDF}: 9.4/29$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

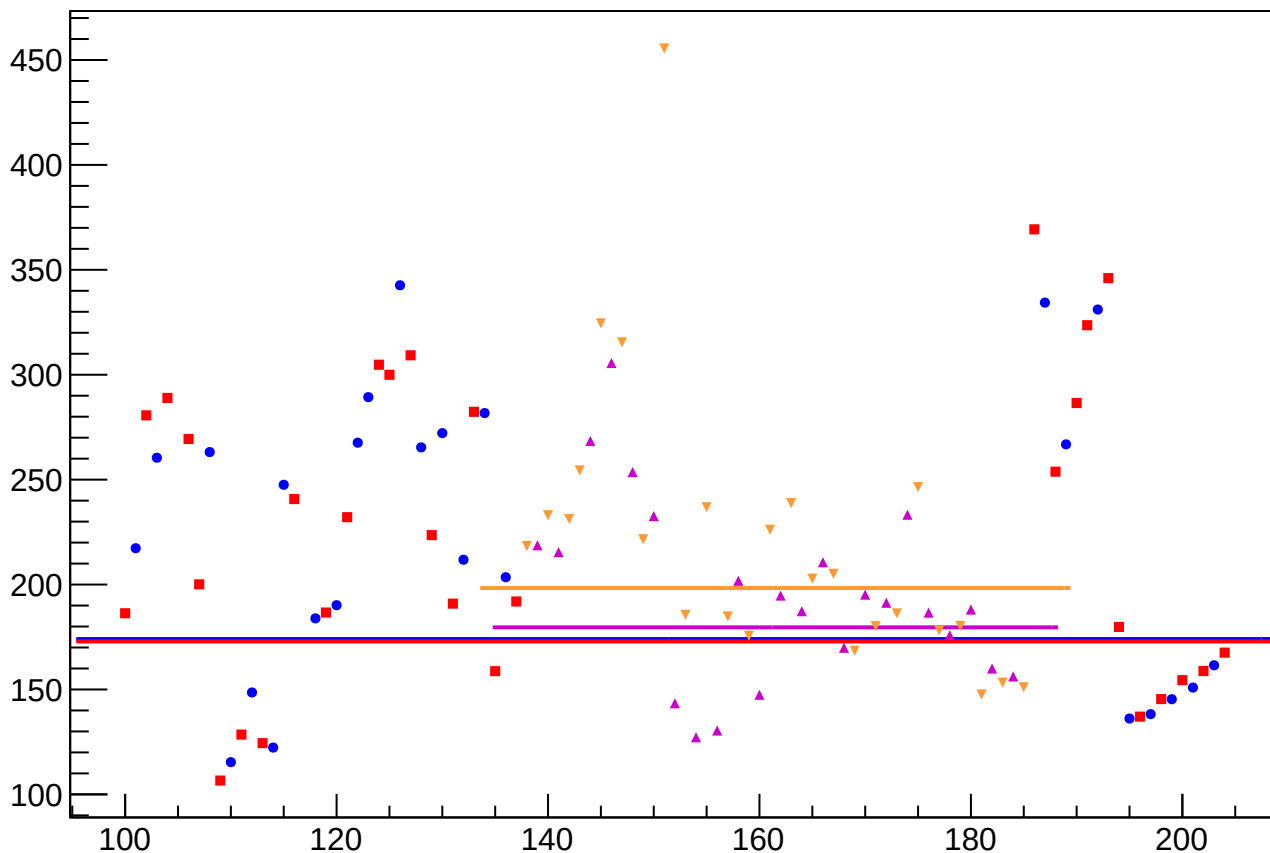
Right: -26.955 ± 35.923 $\chi^2/\text{NDF}: 23.9/54$

In: 8.961 ± 34.221 $\chi^2/\text{NDF}: 21.7/47$

Out: -3.721 ± 34.340 $\chi^2/\text{NDF}: 18.3/54$

All: 2.642 ± 24.240 $\chi^2/\text{NDF}: 40.1/102$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.025 $\pm$ 0.037 χ^2 /NDF: 2084078.3/24

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 172.887 $\pm$ 0.035 χ^2 /NDF: 2763187.3/29

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

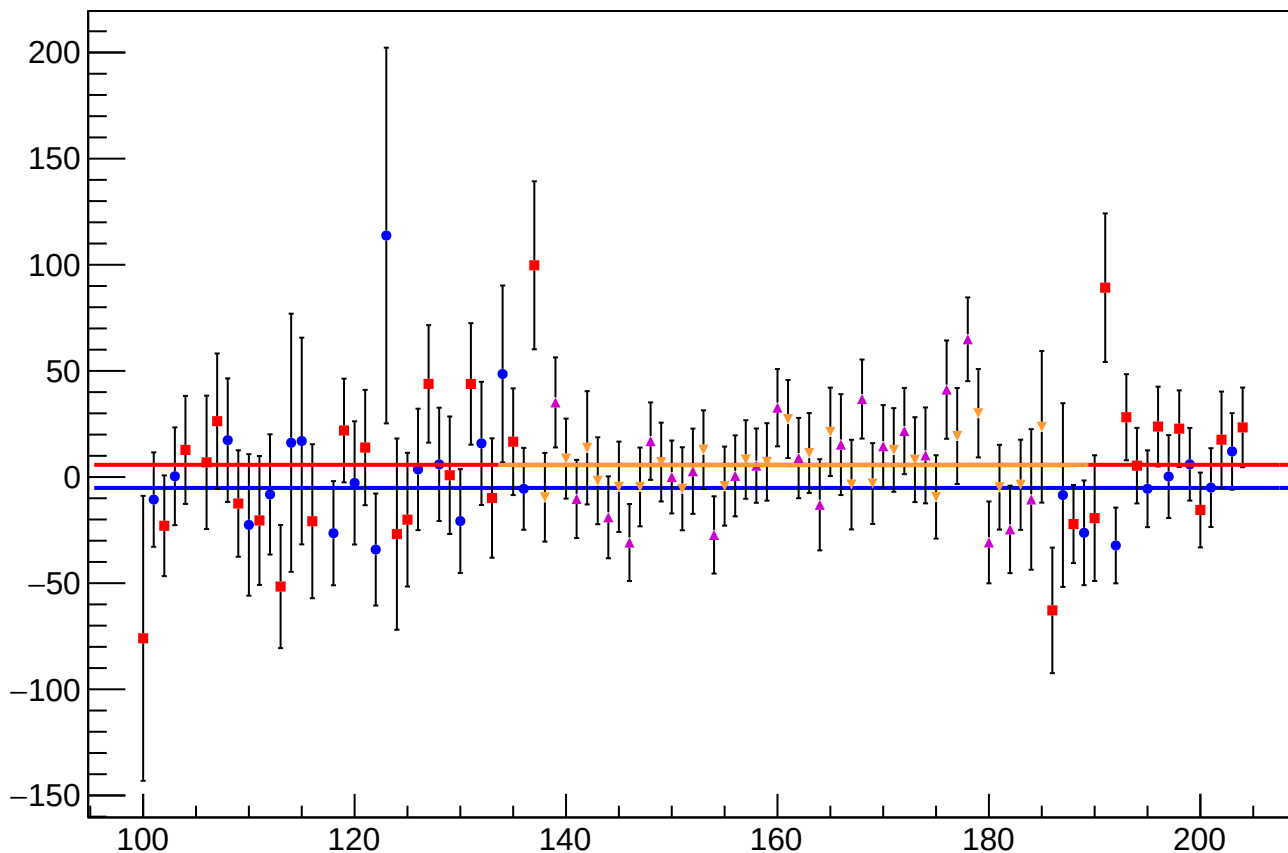
Right: 173.418 $\pm$ 0.025 χ^2 /NDF: 4847765.3/54

In: 177.239 $\pm$ 0.024 χ^2 /NDF:3672809.7/47

Out: 185.948 $\pm$ 0.024 χ^2 /NDF:4795236.5/54

All: 181.578 $\pm$ 0.017 χ^2 /NDF: 8532579.5/102

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.136 ± 4.910 $\chi^2/\text{NDF}: 12.4/24$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 5.768 ± 4.585 $\chi^2/\text{NDF}: 40.5/29$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

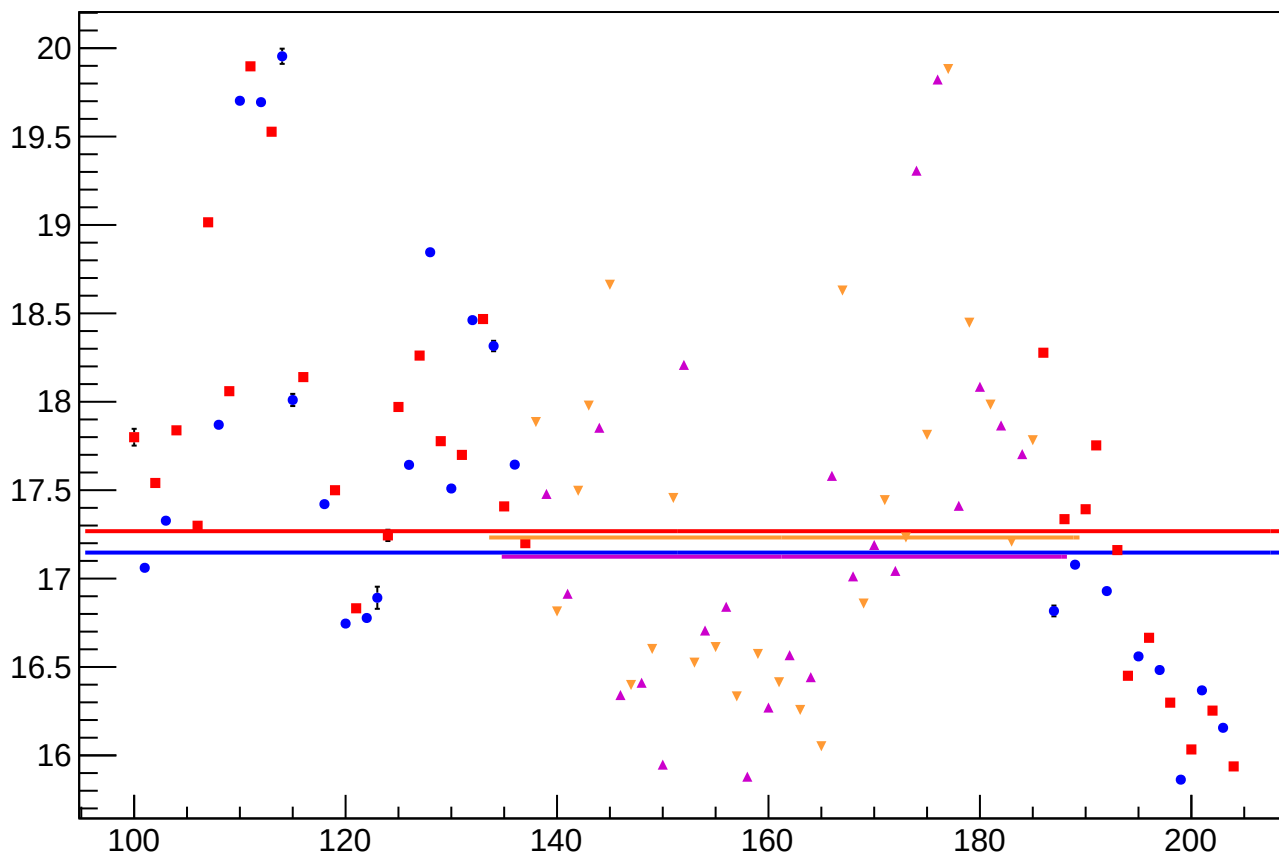
Right: 0.689 ± 3.351 $\chi^2/\text{NDF}: 55.5/54$

In: 1.160 ± 3.157 $\chi^2/\text{NDF}: 51.6/47$

Out: 5.718 ± 3.024 $\chi^2/\text{NDF}: 48.2/54$

All: 3.537 ± 2.184 $\chi^2/\text{NDF}: 100.9/102$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.147 $\pm$ 0.003 χ^2 /NDF: 77084.4/24

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.268 $\pm$ 0.003 χ^2 /NDF: 85545.9/29

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

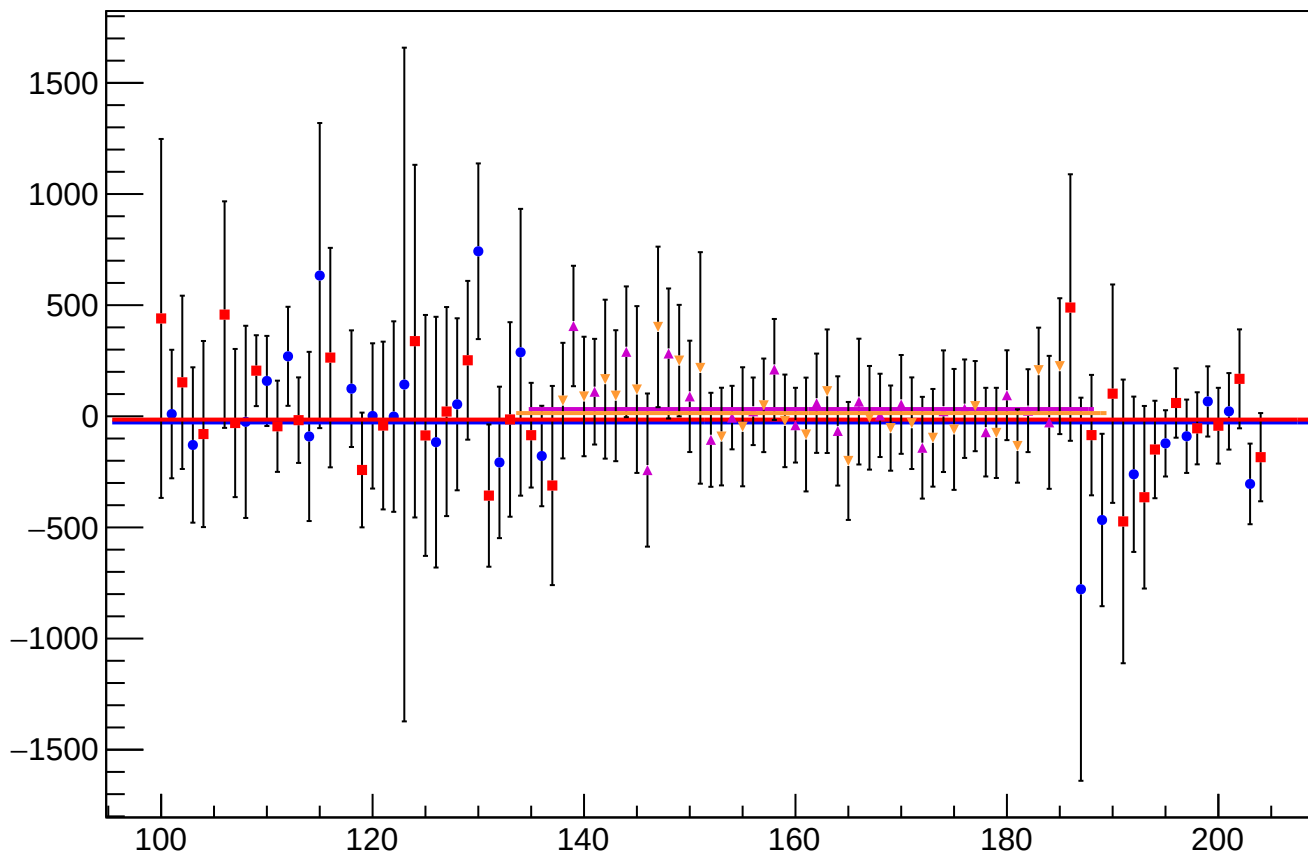
Right: 17.212 $\pm$ 0.002 χ^2 /NDF: 163279.6/54

In: 17.133 $\pm$ 0.002 χ^2 /NDF:177857.9/47

Out: 17.248 $\pm$ 0.002 χ^2 /NDF:184315.2/54

All: 17.193 $\pm$ 0.002 χ^2 /NDF: 363547.2/102

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -27.672 ± 52.872 χ^2/NDF : 14.7/24

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -14.824 ± 49.568 χ^2/NDF : 11.0/29

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

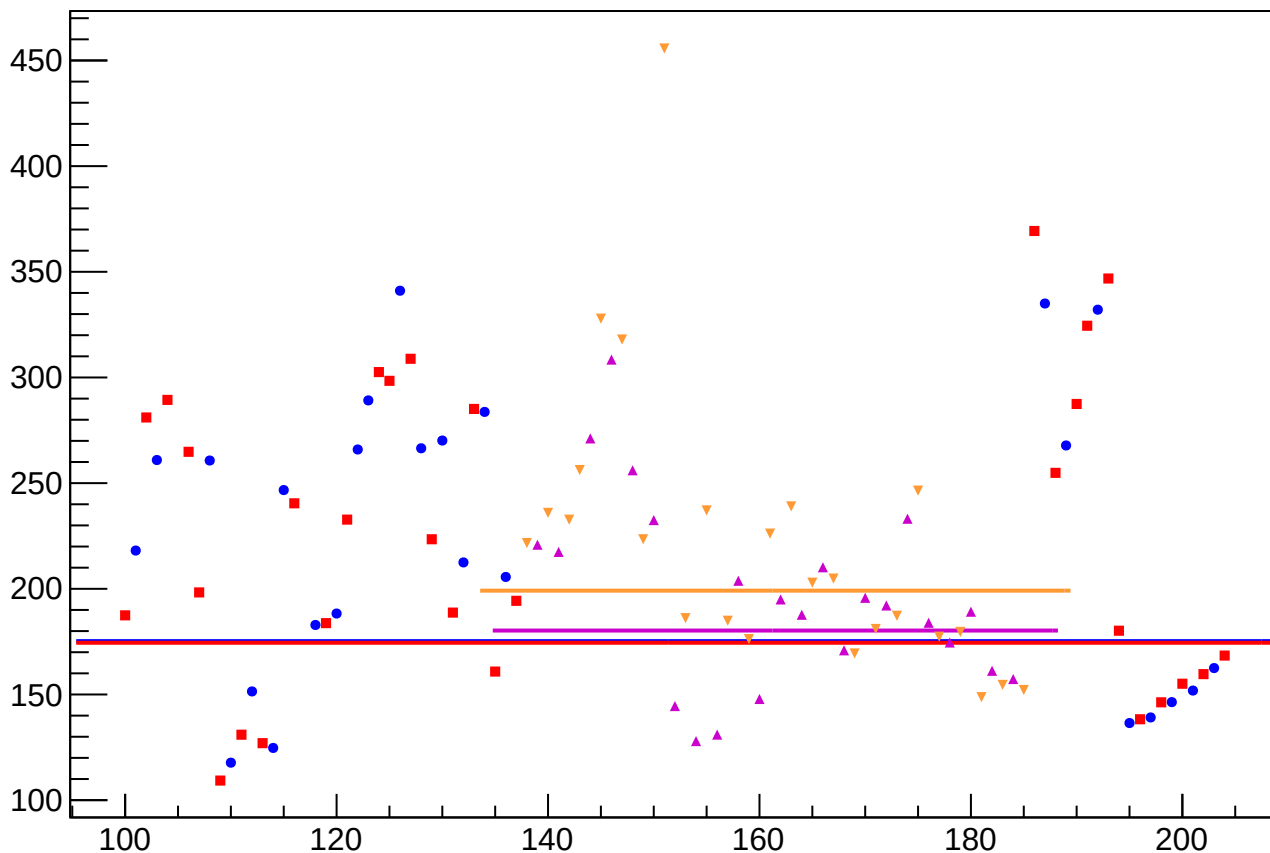
Right: -20.834 ± 36.161 χ^2/NDF : 25.7/54

In: 7.103 ± 34.377 χ^2/NDF : 22.1/47

Out: 0.199 ± 34.530 χ^2/NDF : 18.1/54

All: 3.666 ± 24.362 χ^2/NDF : 40.3/102

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.242 $\pm$ 0.037 χ^2 /NDF: 2034844.9/24

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 174.477 $\pm$ 0.035 χ^2 /NDF: 2667804.5/29

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

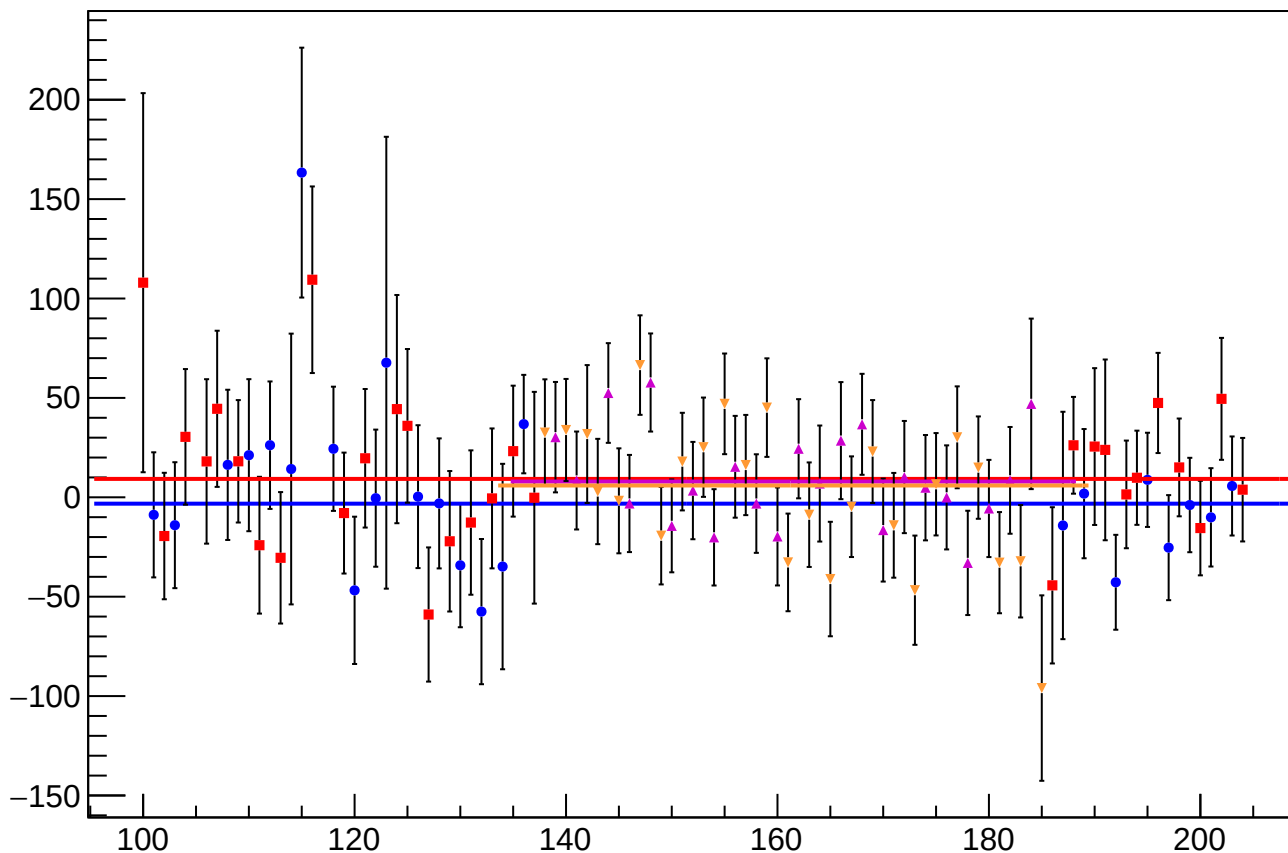
Right: 174.835 $\pm$ 0.026 χ^2 /NDF: 4702872.0/54

In: 178.136 $\pm$ 0.024 χ^2 /NDF:3625782.2/47

Out: 187.169 $\pm$ 0.024 χ^2 /NDF:4682861.9/54

All: 182.633 $\pm$ 0.017 χ^2 /NDF: 8377380.8/102

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.205 ± 6.423 $\chi^2/\text{NDF}: 21.5/24$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: 9.253 ± 5.977 $\chi^2/\text{NDF}: 24.8/29$

Left In: 7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

Left: 6.901 ± 3.784 $\chi^2/\text{NDF}: 54.9/47$

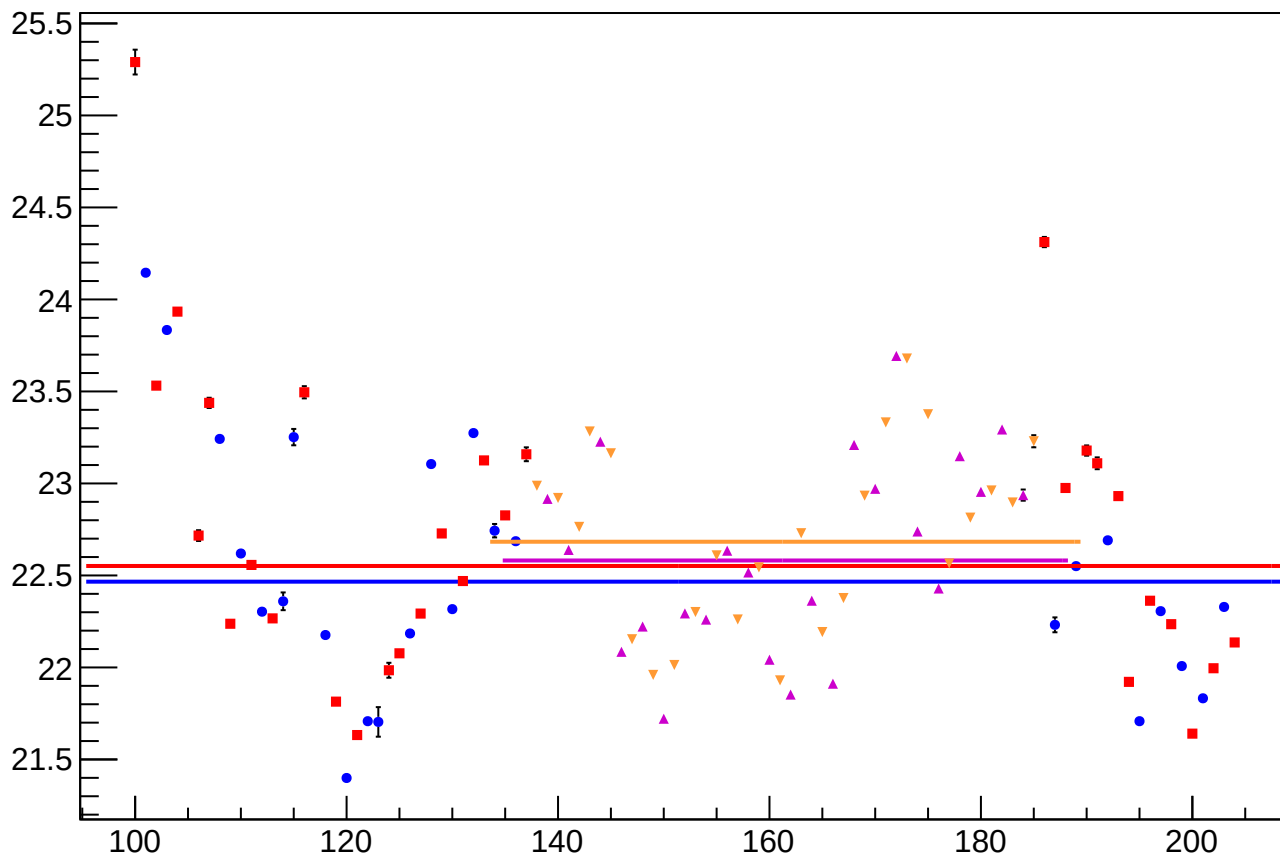
Right: 3.472 ± 4.376 $\chi^2/\text{NDF}: 48.3/54$

In: 3.289 ± 4.143 $\chi^2/\text{NDF}: 41.9/47$

Out: 7.392 ± 3.959 $\chi^2/\text{NDF}: 61.1/54$

All: 5.434 ± 2.862 $\chi^2/\text{NDF}: 103.6/102$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.466+/-0.005 χ^2/NDF : 20146.4/24

Left Out: 22.683+/-0.004 χ^2/NDF :16320.2/24

Right Out: 22.551+/-0.004 χ^2/NDF : 24997.6/29

Left In: 22.581+/-0.004 χ^2/NDF :17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

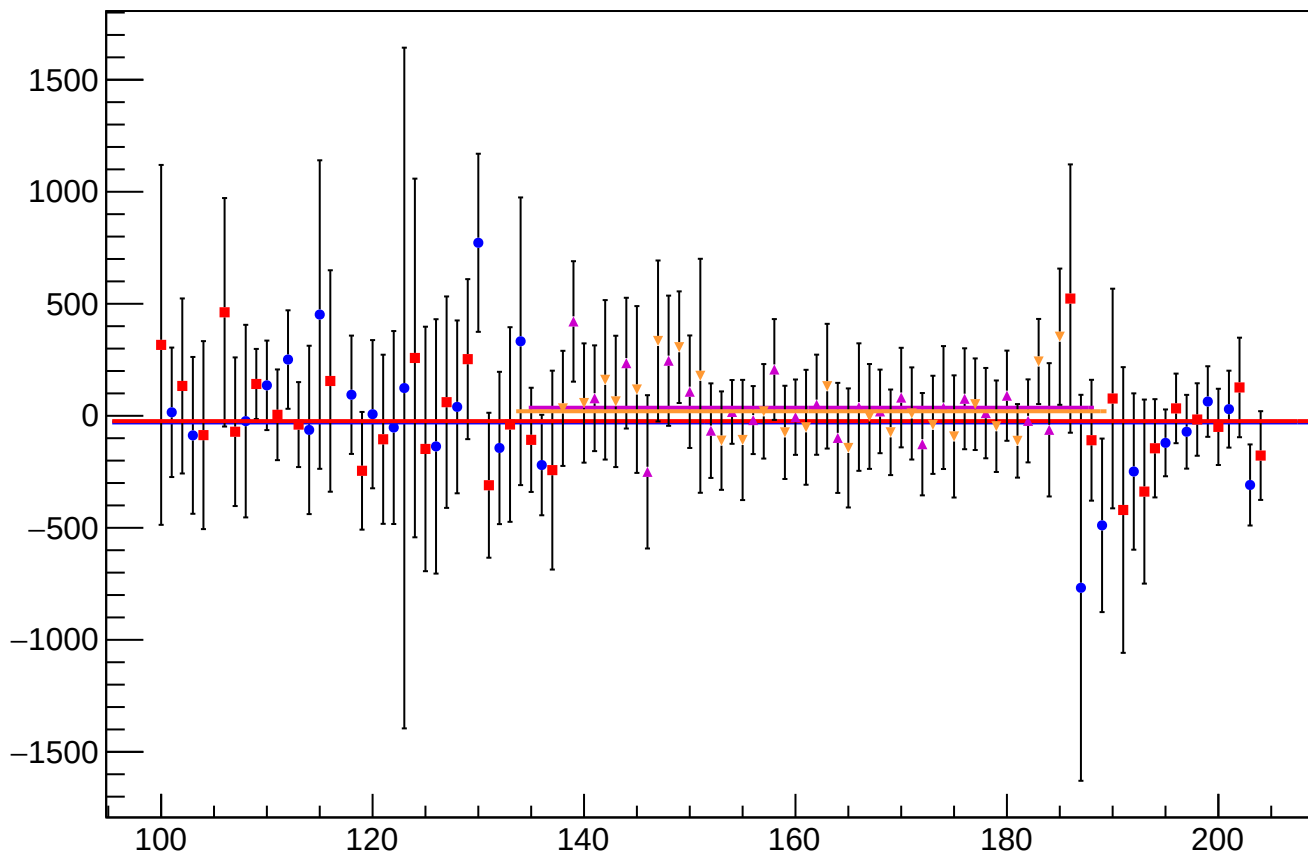
Right: 22.512+/-0.003 χ^2/NDF : 45332.9/54

In: 22.533+/-0.003 χ^2/NDF :38426.2/47

Out: 22.625+/-0.003 χ^2/NDF :41863.2/54

All: 22.581+/-0.002 χ^2/NDF : 80804.5/102

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -29.682 ± 52.719 $\chi^2/\text{NDF}: 14.2/24$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -23.742 ± 49.335 $\chi^2/\text{NDF}: 8.8/29$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

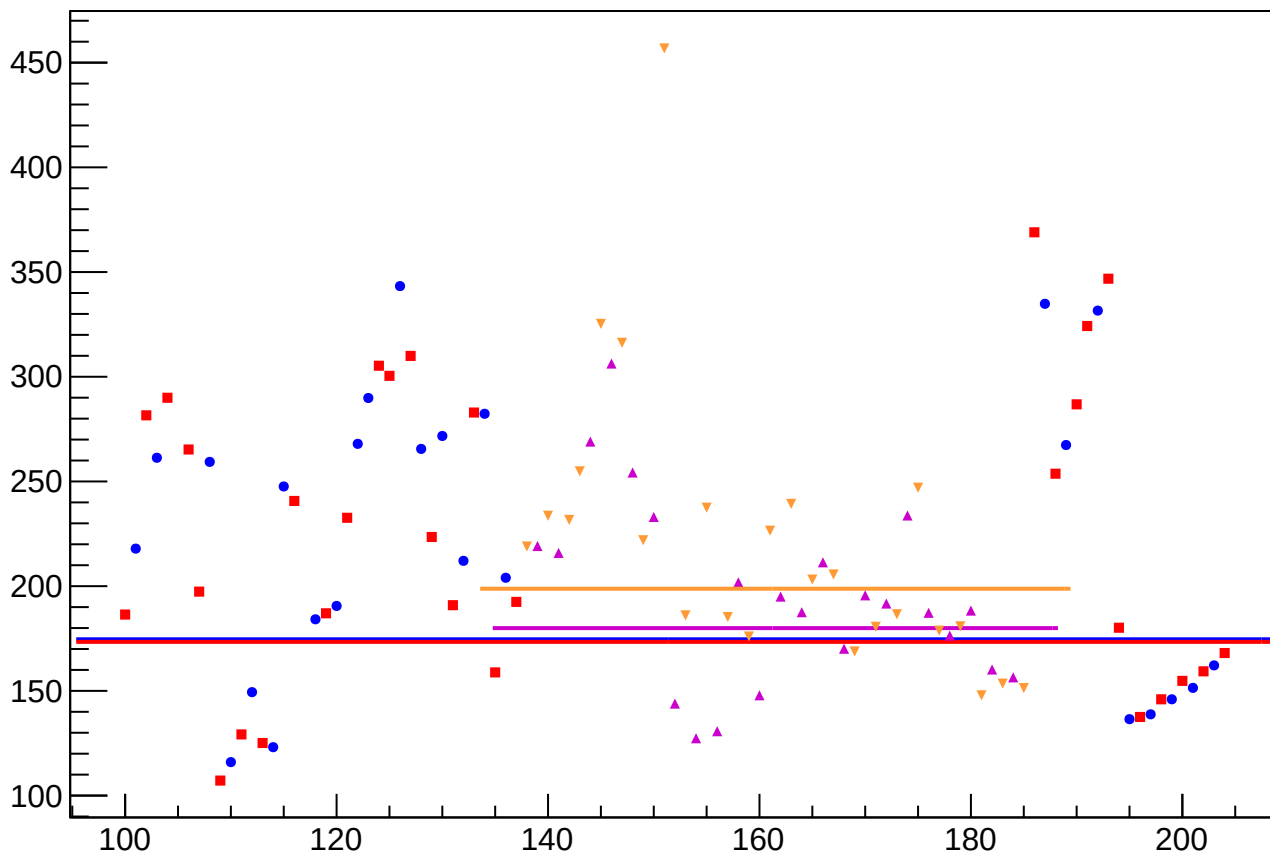
Right: -26.515 ± 36.022 $\chi^2/\text{NDF}: 23.0/54$

In: 8.185 ± 34.306 $\chi^2/\text{NDF}: 21.2/47$

Out: -1.136 ± 34.421 $\chi^2/\text{NDF}: 16.9/54$

All: 3.540 ± 24.299 $\chi^2/\text{NDF}: 38.1/102$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.630 $\pm$ 0.037 χ^2 /NDF: 2065111.5/24

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 173.405 $\pm$ 0.035 χ^2 /NDF: 2738241.6/29

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

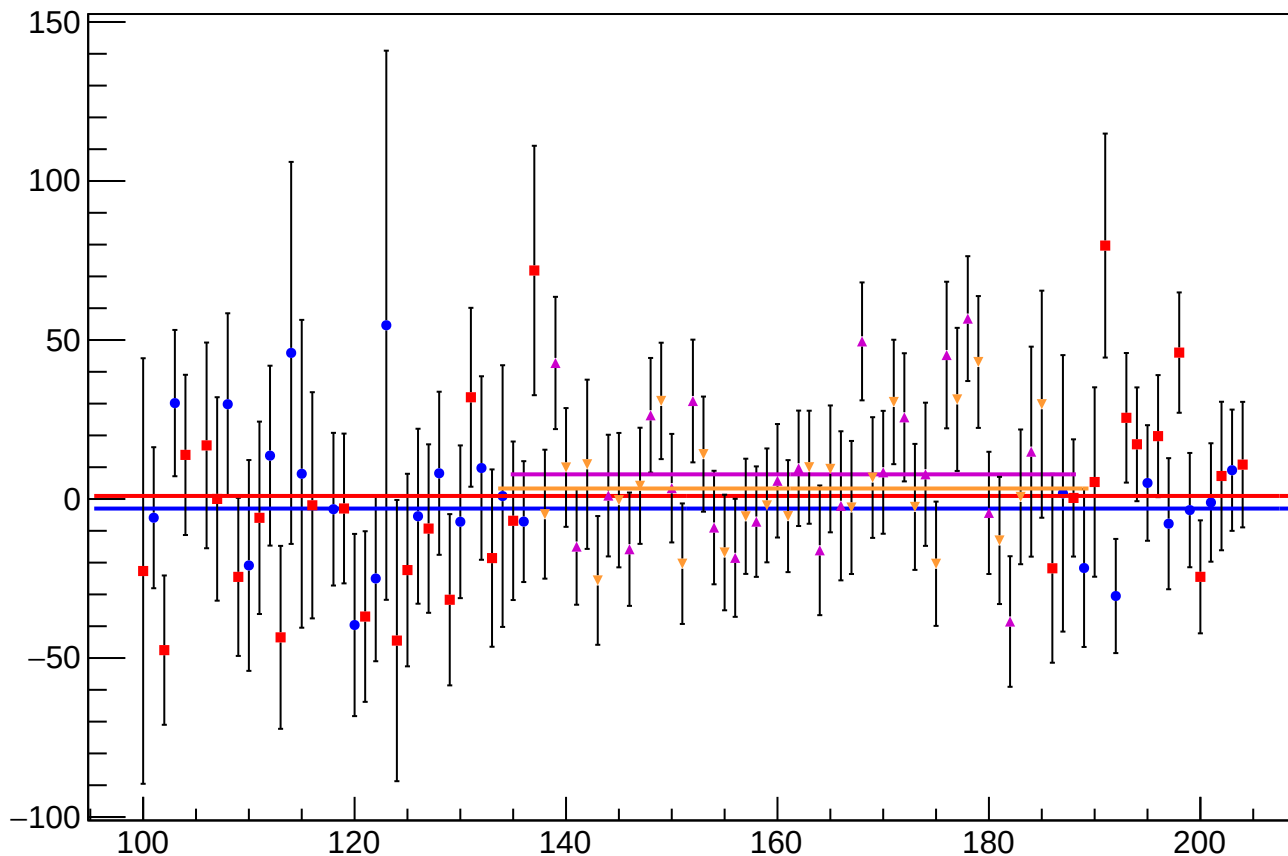
Right: 173.977 $\pm$ 0.025 χ^2 /NDF: 4803929.3/54

In: 177.710 $\pm$ 0.024 χ^2 /NDF:3652838.9/47

Out: 186.430 $\pm$ 0.024 χ^2 /NDF:4768350.6/54

All: 182.055 $\pm$ 0.017 χ^2 /NDF: 8485572.1/102

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.002 ± 4.934 χ^2/NDF : 11.6/24

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: 0.964 ± 4.598 χ^2/NDF : 35.7/29

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

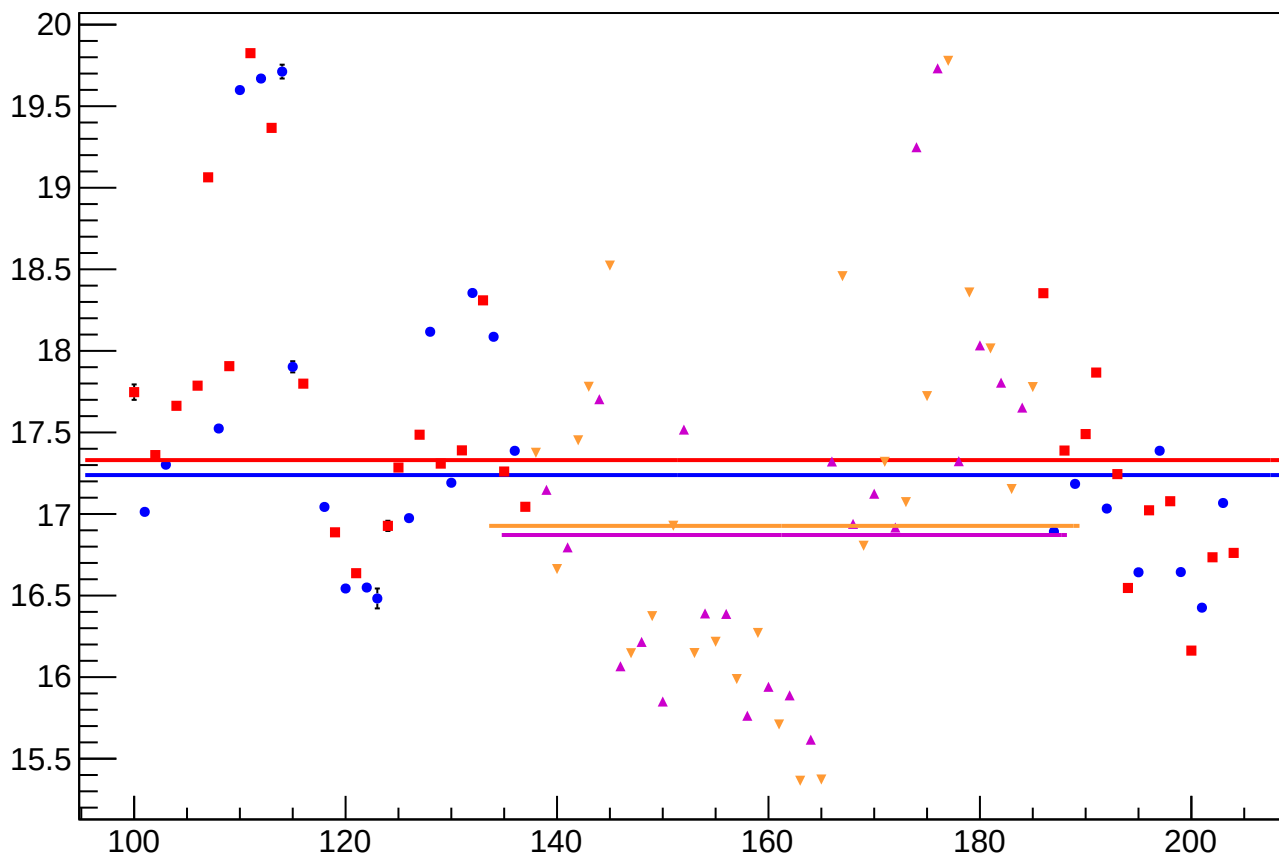
Right: -0.880 ± 3.364 χ^2/NDF : 47.6/54

In: 3.411 ± 3.135 χ^2/NDF : 48.7/47

Out: 2.311 ± 2.998 χ^2/NDF : 54.5/54

All: 2.837 ± 2.167 χ^2/NDF : 103.3/102

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.239 $\pm$ 0.003 χ^2 /NDF: 47290.9/24

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.330 $\pm$ 0.003 χ^2 /NDF: 55898.5/29

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

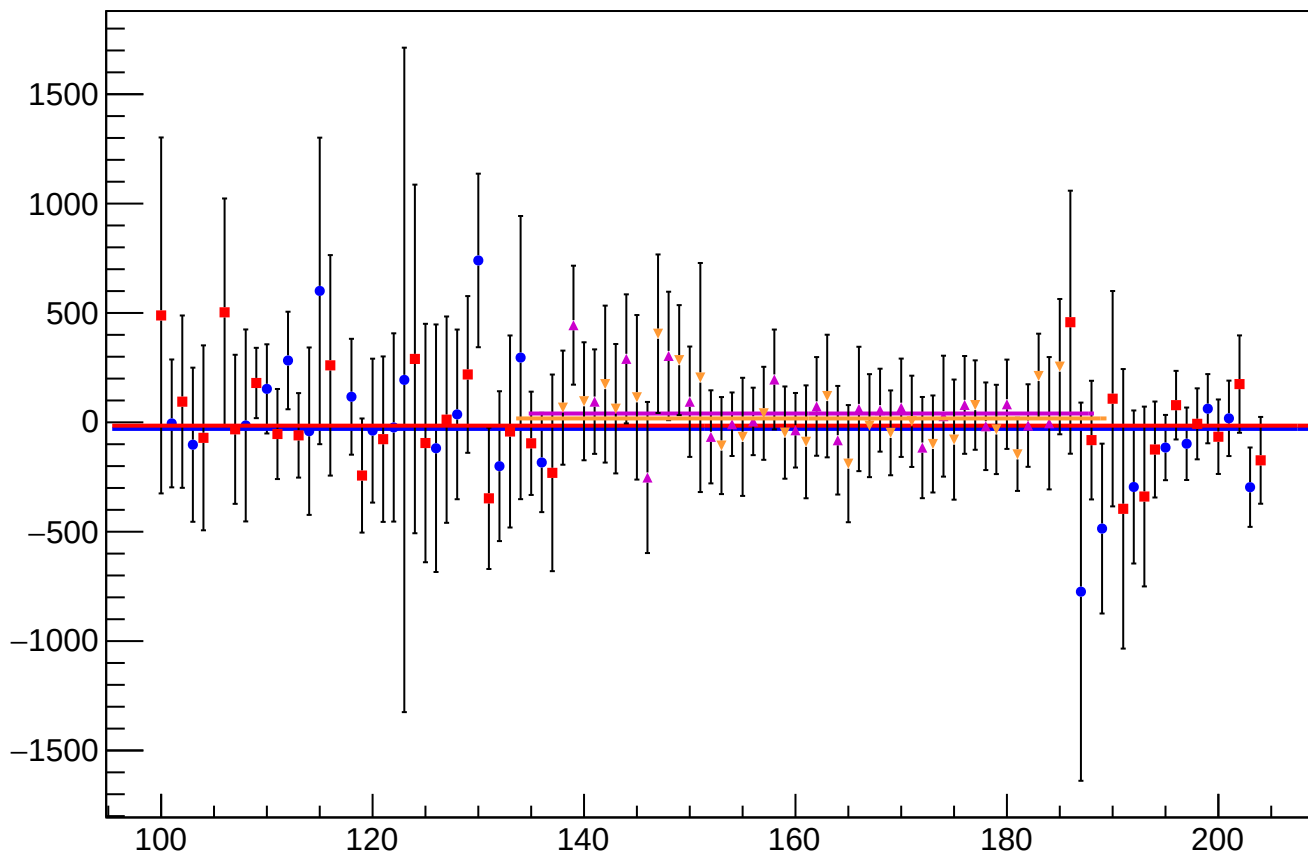
Right: 17.288 $\pm$ 0.002 χ^2 /NDF: 103559.8/54

In: 17.020 $\pm$ 0.002 χ^2 /NDF:171897.5/47

Out: 17.099 $\pm$ 0.002 χ^2 /NDF:203271.8/54

All: 17.061 $\pm$ 0.002 χ^2 /NDF: 375832.2/102

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -30.036 ± 53.051 $\chi^2/\text{NDF}: 14.5/24$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -15.122 ± 49.758 $\chi^2/\text{NDF}: 9.9/29$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

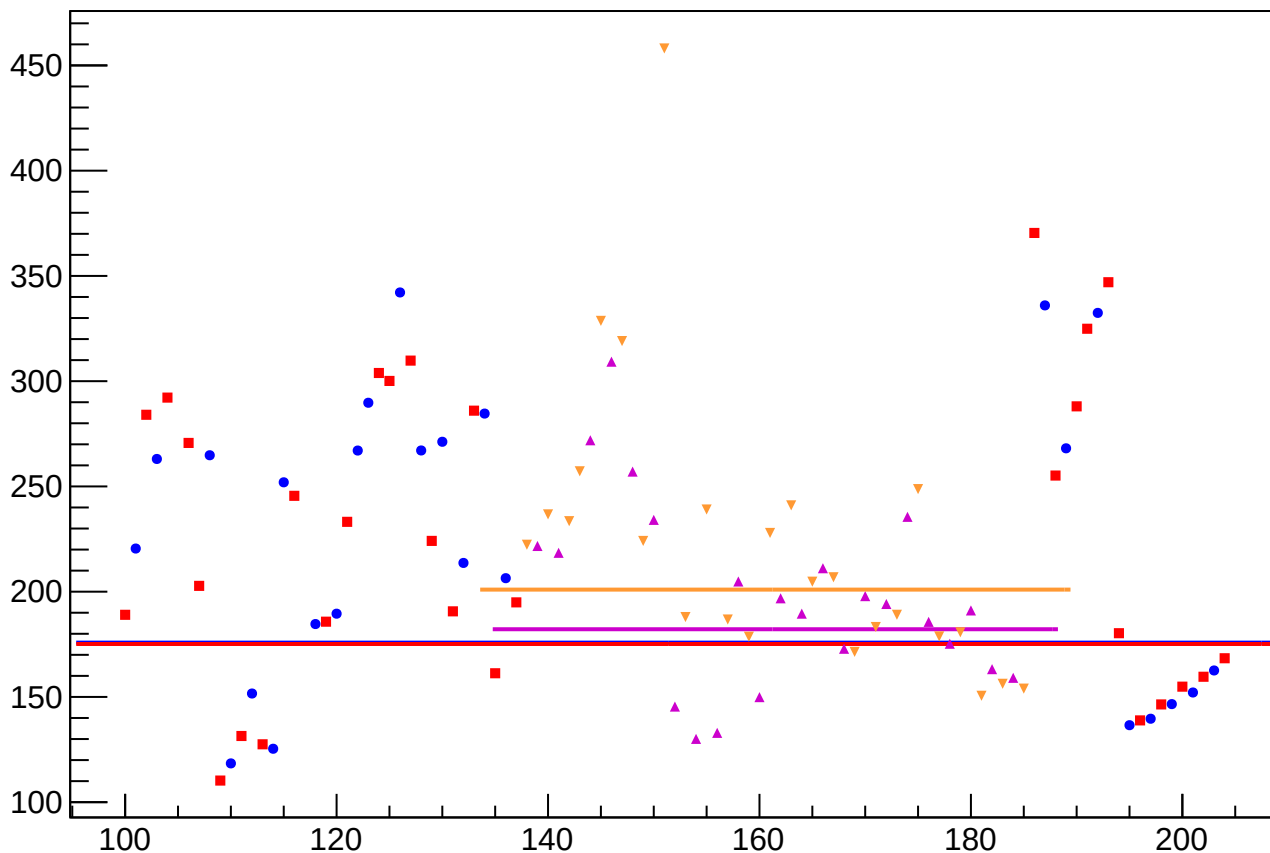
Right: -22.102 ± 36.293 $\chi^2/\text{NDF}: 24.5/54$

In: 10.379 ± 34.620 $\chi^2/\text{NDF}: 22.2/47$

Out: 1.759 ± 34.748 $\chi^2/\text{NDF}: 17.6/54$

All: 6.085 ± 24.525 $\chi^2/\text{NDF}: 39.8/102$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.795+/-0.038 χ^2/NDF : 2048573.1/24

Left Out: 200.985+/-0.034 χ^2/NDF :1727291.4/24

Right Out: 175.153+/-0.035 χ^2/NDF : 2676348.6/29

Left In: 182.158+/-0.032 χ^2/NDF :1535922.8/22

Left: 191.001+/-0.024 χ^2/NDF : 3422724.8/47

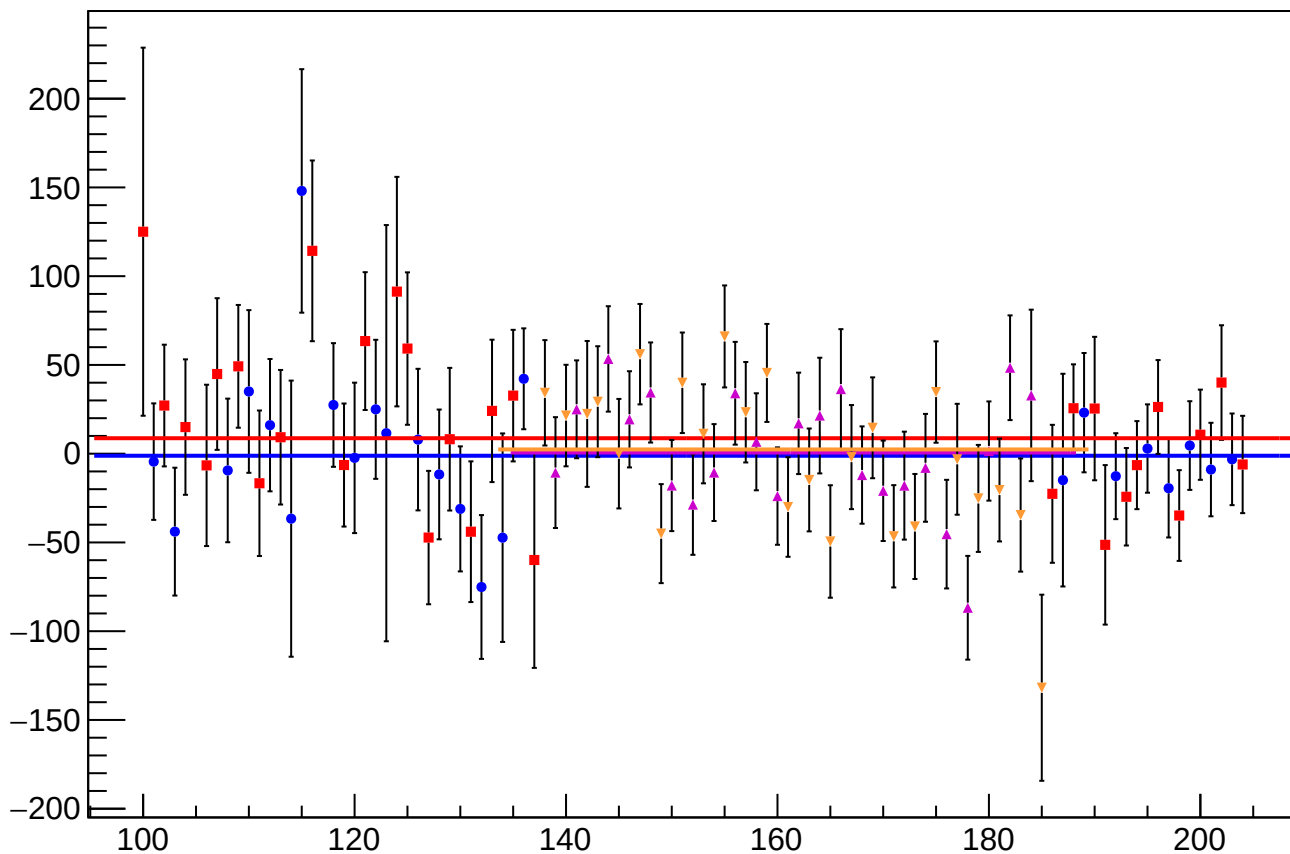
Right: 175.454+/-0.026 χ^2/NDF : 4725077.4/54

In: 179.448+/-0.024 χ^2/NDF :3601015.6/47

Out: 188.388+/-0.025 χ^2/NDF :4679791.2/54

All: 183.901+/-0.017 χ^2/NDF : 8347230.8/102

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.160 ± 6.960 $\chi^2/\text{NDF}: 16.9/24$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 8.713 ± 6.428 $\chi^2/\text{NDF}: 29.0/29$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

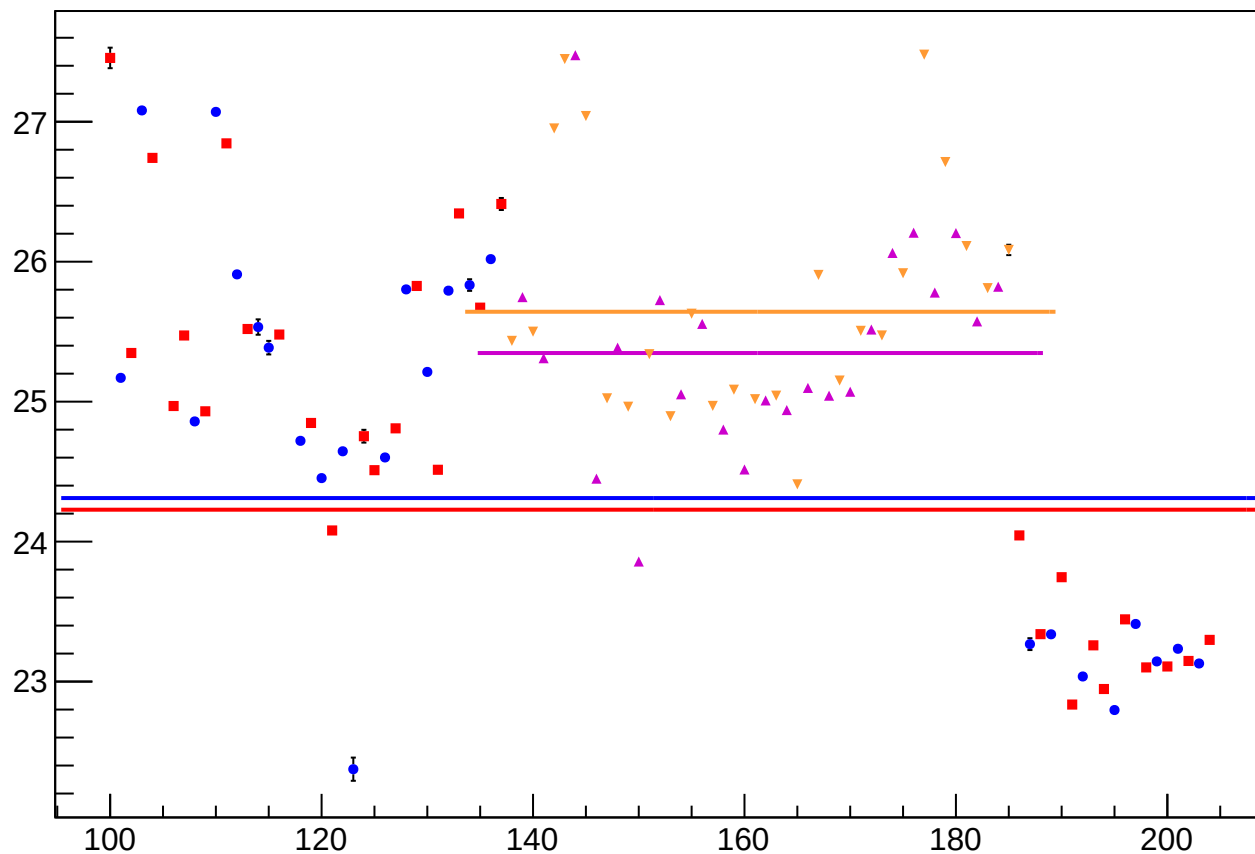
Right: 4.168 ± 4.722 $\chi^2/\text{NDF}: 47.0/54$

In: -0.140 ± 4.584 $\chi^2/\text{NDF}: 44.3/47$

Out: 5.323 ± 4.378 $\chi^2/\text{NDF}: 68.6/54$

All: 2.717 ± 3.166 $\chi^2/\text{NDF}: 113.6/102$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.311 $\pm$ 0.005 χ^2 /NDF: 71690.8/24

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.228 $\pm$ 0.005 χ^2 /NDF: 70062.3/29

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

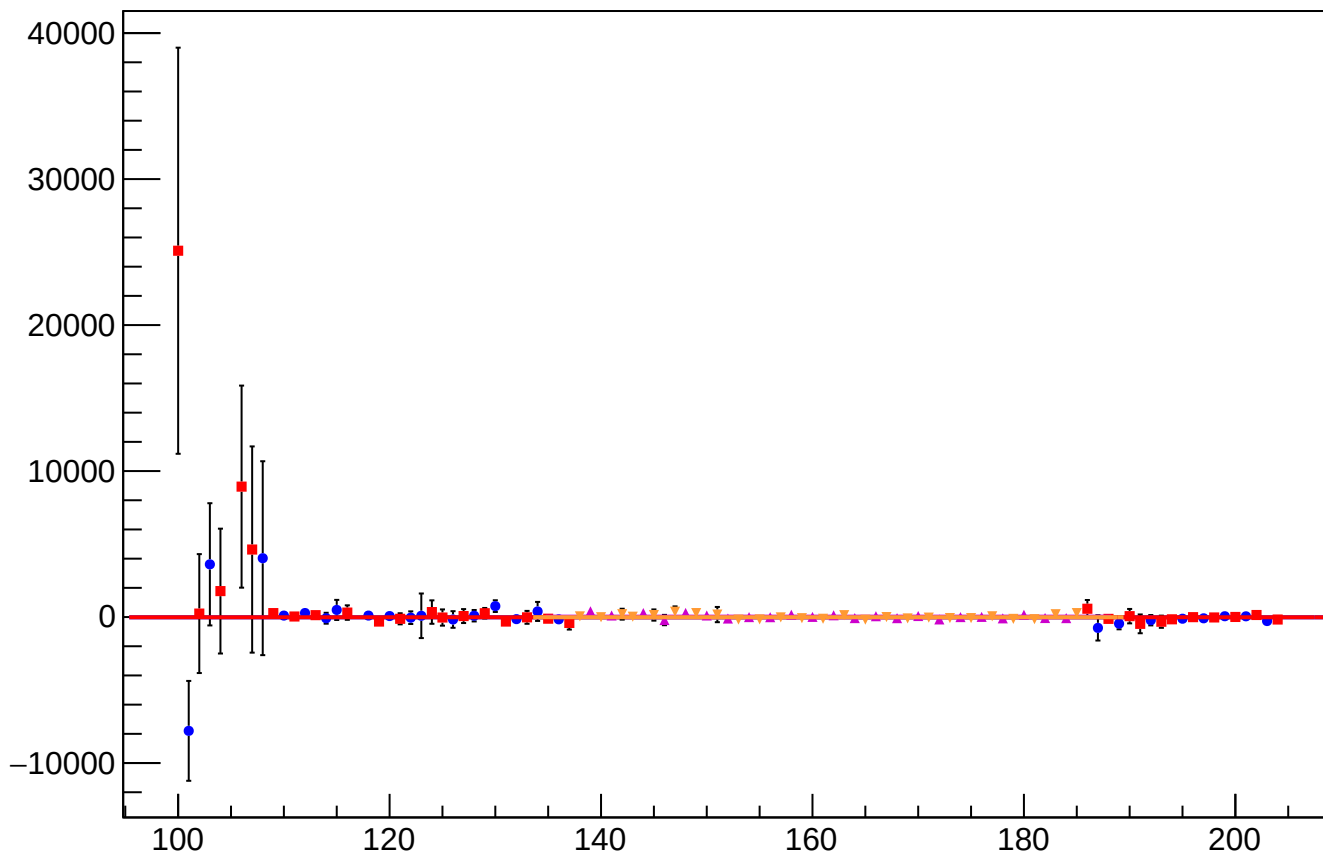
Right: 24.266 $\pm$ 0.003 χ^2 /NDF: 141907.1/54

In: 24.898 $\pm$ 0.003 χ^2 /NDF:126185.2/47

Out: 24.986 $\pm$ 0.003 χ^2 /NDF:156762.1/54

All: 24.944 $\pm$ 0.002 χ^2 /NDF: 283334.6/102

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -18.250 ± 56.021 χ^2/NDF : 19.0/24

Left Out: -11.432 ± 48.263 χ^2/NDF : 8.0/24

Right Out: -15.200 ± 53.417 χ^2/NDF : 15.8/29

Left In: 27.098 ± 45.999 χ^2/NDF : 7.2/22

Left: 8.758 ± 33.298 χ^2/NDF : 15.5/47

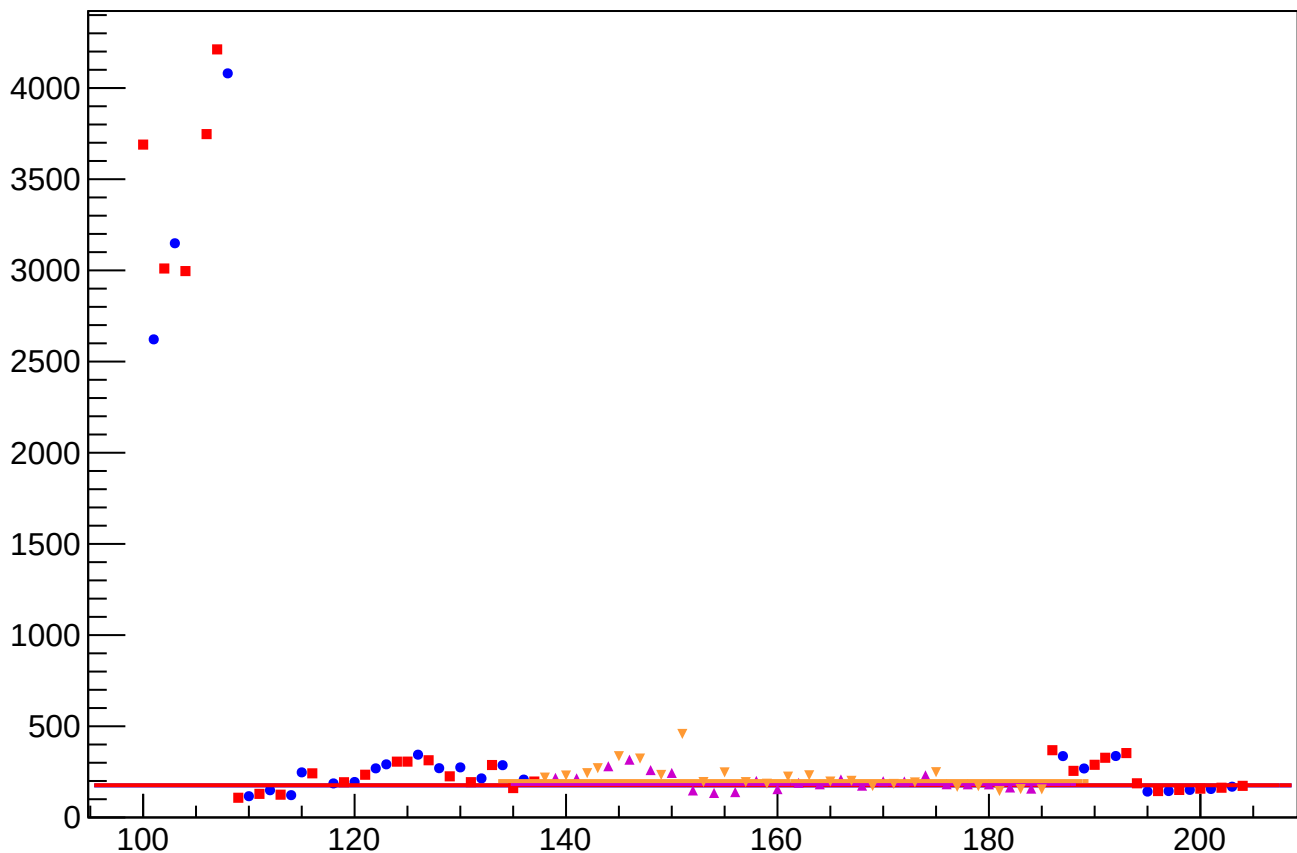
Right: -16.653 ± 38.659 χ^2/NDF : 34.7/54

In: 8.836 ± 35.550 χ^2/NDF : 26.5/47

Out: -13.126 ± 35.811 χ^2/NDF : 23.8/54

All: -2.064 ± 25.229 χ^2/NDF : 50.5/102

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.494+/-0.040 χ^2/NDF : 4467821.7/24

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 176.701+/-0.038 χ^2/NDF : 5307941.2/29

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

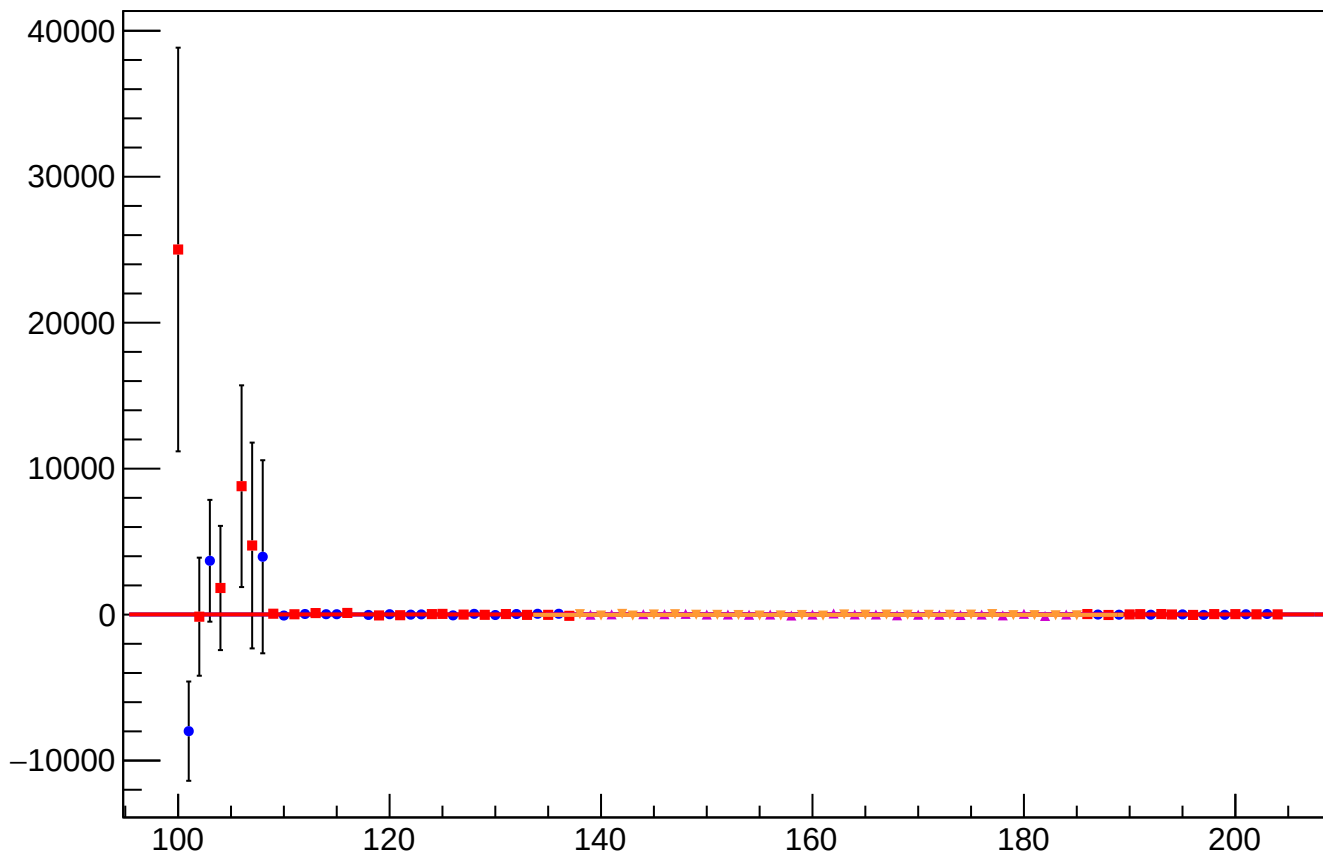
Right: 176.126+/-0.027 χ^2/NDF : 9776248.7/54

In: 180.458+/-0.025 χ^2/NDF : 5906982.2/47

Out: 189.219+/-0.025 χ^2/NDF : 7385298.7/54

All: 184.807+/-0.018 χ^2/NDF : 13352563.7/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.995 ± 8.448 $\chi^2/\text{NDF}: 21.5/24$

Left Out: -18.118 ± 6.704 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 13.319 ± 7.912 $\chi^2/\text{NDF}: 28.7/29$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

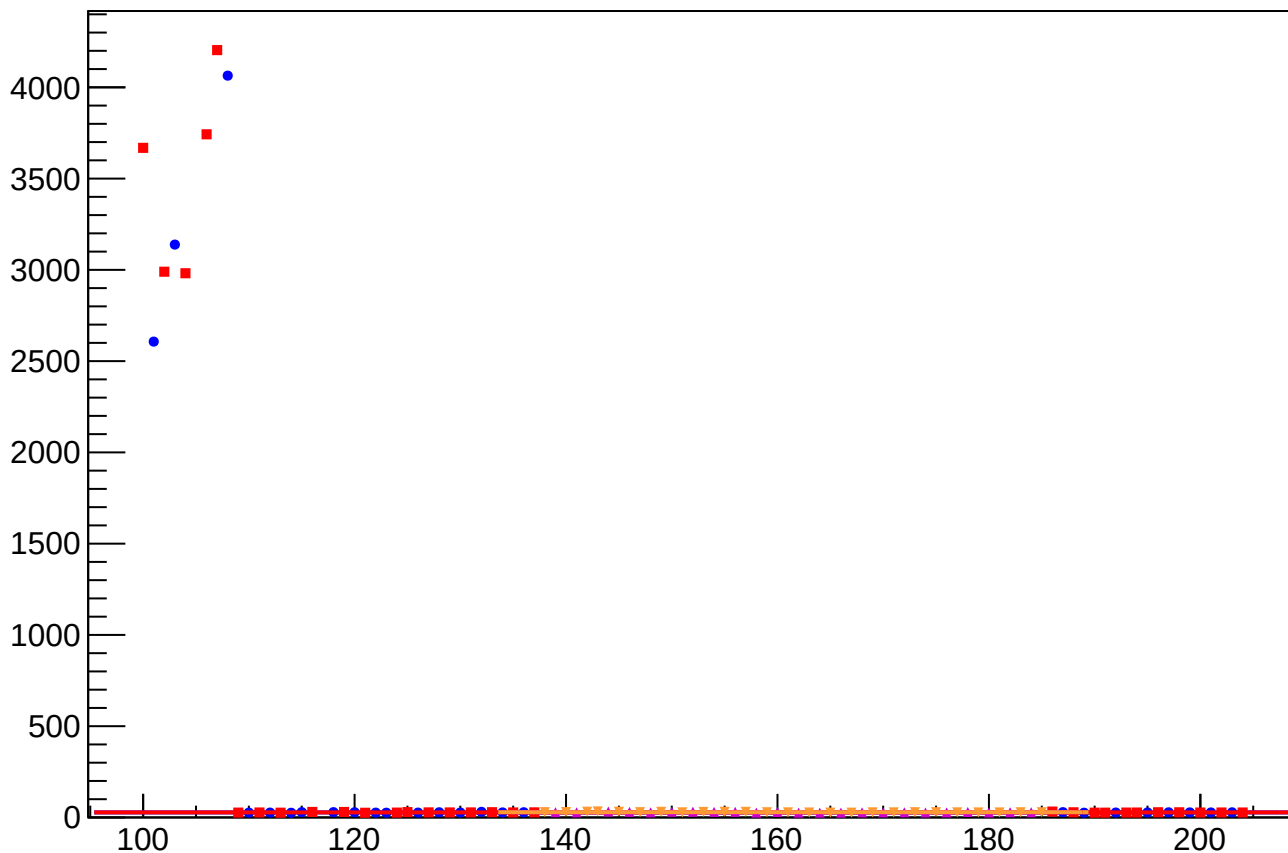
Right: 10.831 ± 5.775 $\chi^2/\text{NDF}: 50.4/54$

In: 3.963 ± 5.348 $\chi^2/\text{NDF}: 53.9/47$

Out: -4.981 ± 5.115 $\chi^2/\text{NDF}: 59.6/54$

All: -0.708 ± 3.696 $\chi^2/\text{NDF}: 115.0/102$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.652 $\pm$ 0.006 χ^2 /NDF: 3035001.3/24

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.615 $\pm$ 0.006 χ^2 /NDF: 3503072.5/29

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

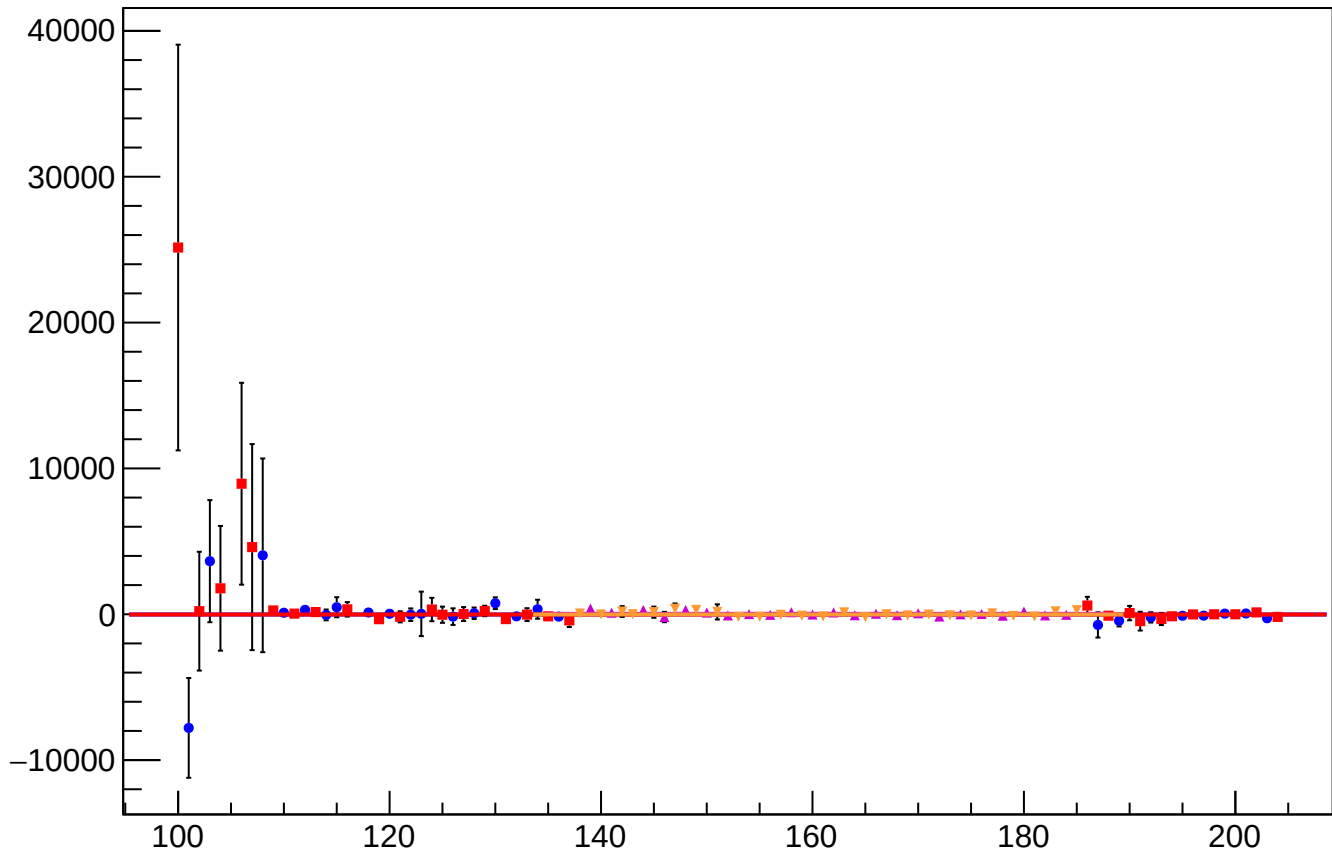
Right: 27.632 $\pm$ 0.004 χ^2 /NDF: 6538094.9/54

In: 28.266 $\pm$ 0.004 χ^2 /NDF: 3176440.1/47

Out: 28.243 $\pm$ 0.004 χ^2 /NDF: 3635190.0/54

All: 28.254 $\pm$ 0.003 χ^2 /NDF: 6811650.2/102

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -16.808 $\pm$ 55.842 χ^2 /NDF: 19.2/24

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF: 8.8/24

Right Out: -17.388 $\pm$ 53.265 χ^2 /NDF: 16.5/29

Left In: 27.286 $\pm$ 45.907 χ^2 /NDF: 7.5/22

Left: 7.688 $\pm$ 33.228 χ^2 /NDF: 16.7/47

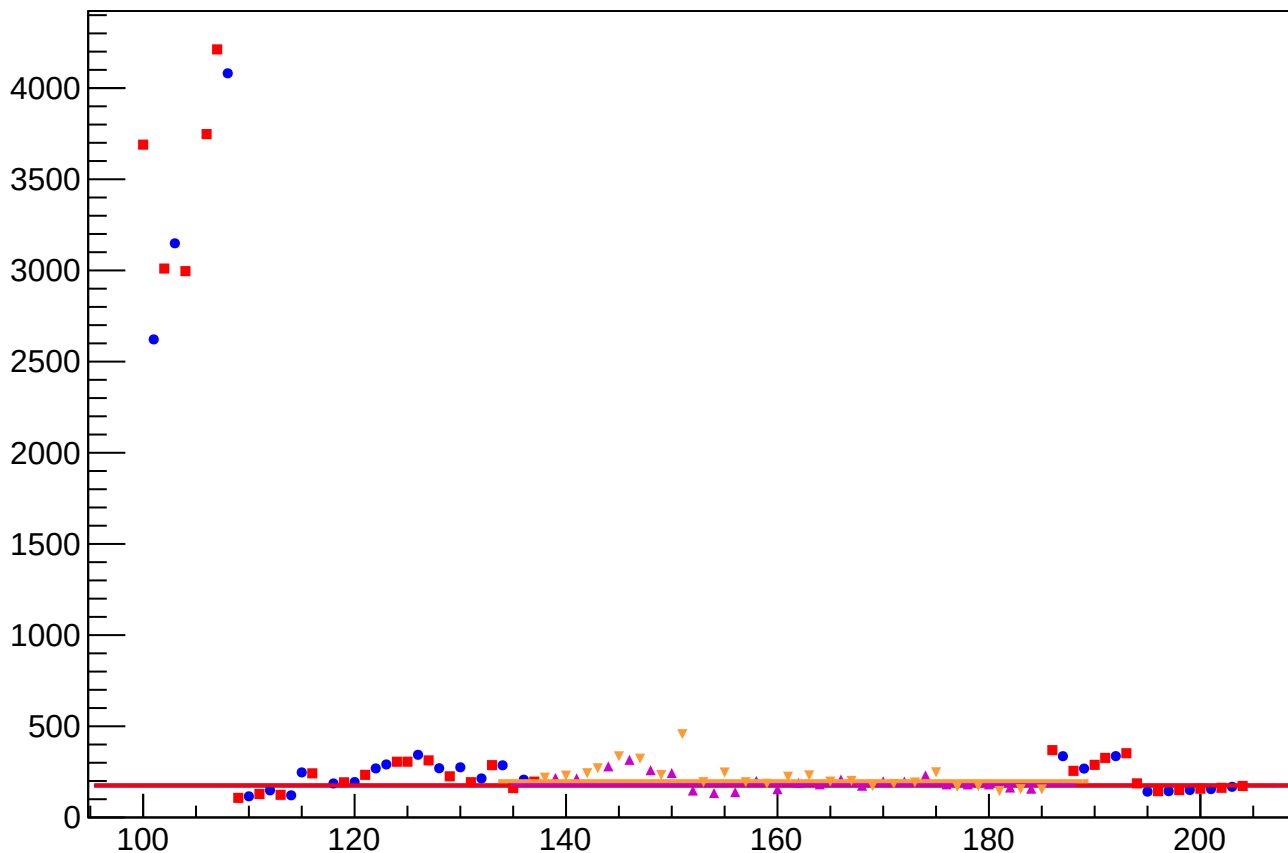
Right: -17.112 $\pm$ 38.543 χ^2 /NDF: 35.7/54

In: 9.504 $\pm$ 35.462 χ^2 /NDF: 27.1/47

Out: -15.457 $\pm$ 35.721 χ^2 /NDF: 25.3/54

All: -2.885 $\pm$ 25.167 χ^2 /NDF: 52.6/102

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.875+/-0.039 χ^2/NDF : 4481345.0/24

Left Out: 198.997+/-0.034 χ^2/NDF : 1877636.0/24

Right Out: 176.132+/-0.038 χ^2/NDF : 5325423.1/29

Left In: 183.442+/-0.032 χ^2/NDF : 1412341.8/22

Left: 190.847+/-0.023 χ^2/NDF : 3399302.2/47

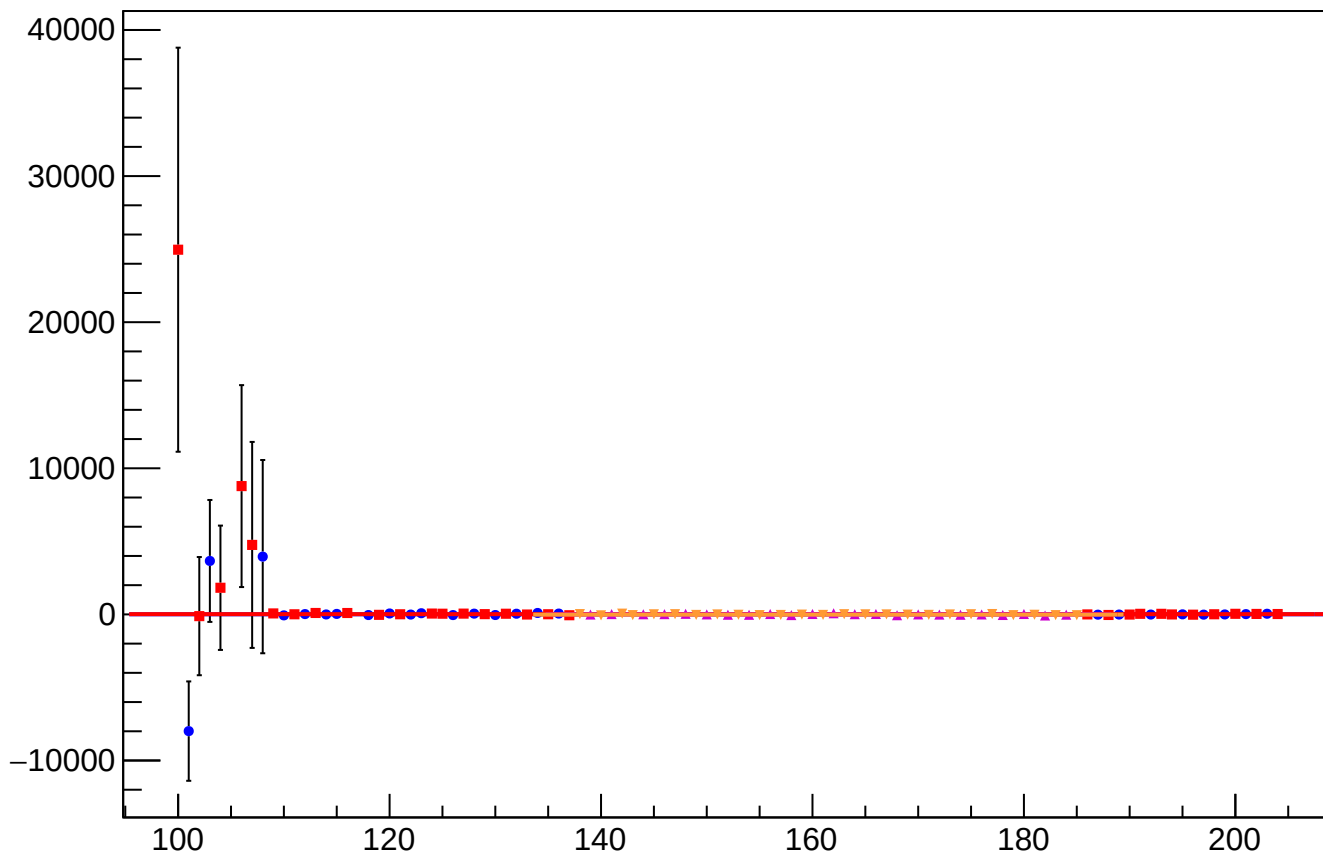
Right: 175.533+/-0.027 χ^2/NDF : 9807298.7/54

In: 179.987+/-0.025 χ^2/NDF : 5921772.3/47

Out: 188.713+/-0.025 χ^2/NDF : 7405842.3/54

All: 184.318+/-0.018 χ^2/NDF : 13387727.4/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.626+/-8.441 χ^2/NDF : 25.5/24

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 17.076+/-7.908 χ^2/NDF : 24.5/29

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

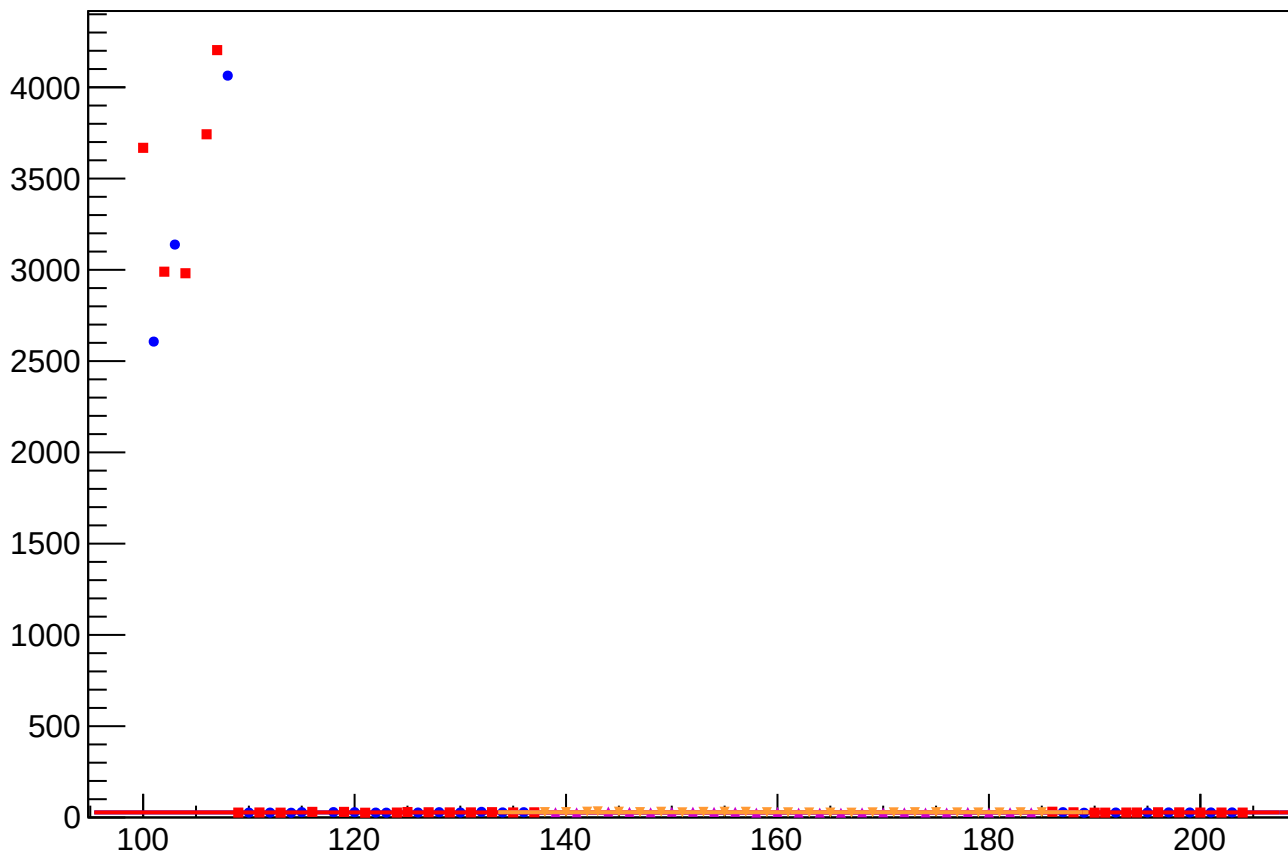
Right: 12.192+/-5.771 χ^2/NDF : 50.9/54

In: 2.374+/-5.359 χ^2/NDF : 52.0/47

Out: -2.000+/-5.127 χ^2/NDF : 51.1/54

All: 0.090+/-3.705 χ^2/NDF : 103.5/102

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.626 $\pm$ 0.006 χ^2 /NDF: 3036574.1/24

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF:122153.6/24

Right Out: 27.600 $\pm$ 0.006 χ^2 /NDF: 3502751.6/29

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF:128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

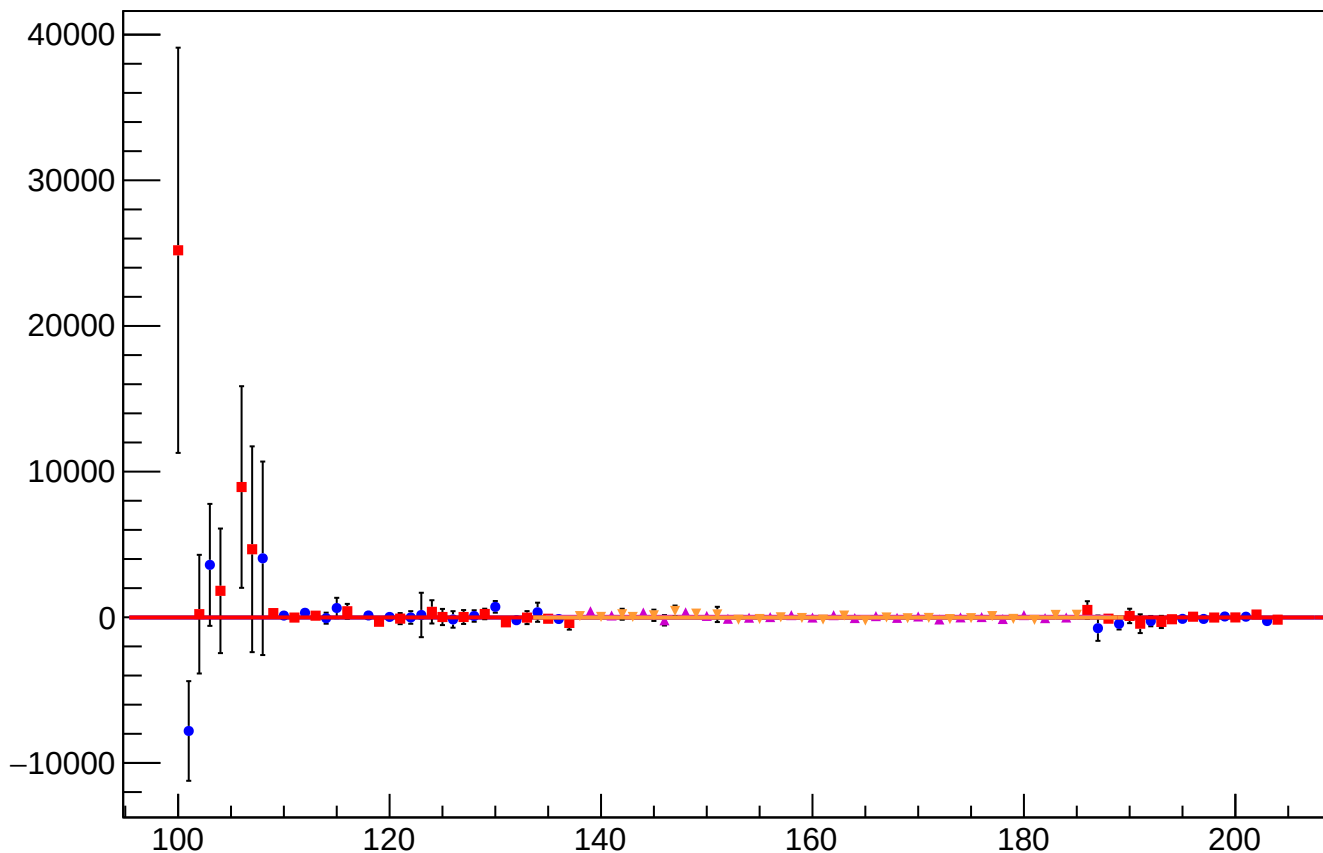
Right: 27.612 $\pm$ 0.004 χ^2 /NDF: 6539335.8/54

In: 28.325 $\pm$ 0.004 χ^2 /NDF:3187839.3/47

Out: 28.304 $\pm$ 0.004 χ^2 /NDF:3652246.9/54

All: 28.314 $\pm$ 0.003 χ^2 /NDF: 6840102.6/102

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -17.270 ± 56.257 $\chi^2/\text{NDF}: 19.4/24$

Left Out: -13.966 ± 48.735 $\chi^2/\text{NDF}: 8.1/24$

Right Out: -10.738 ± 53.690 $\chi^2/\text{NDF}: 15.9/29$

Left In: 31.477 ± 46.483 $\chi^2/\text{NDF}: 7.8/22$

Left: 9.830 ± 33.637 $\chi^2/\text{NDF}: 16.4/47$

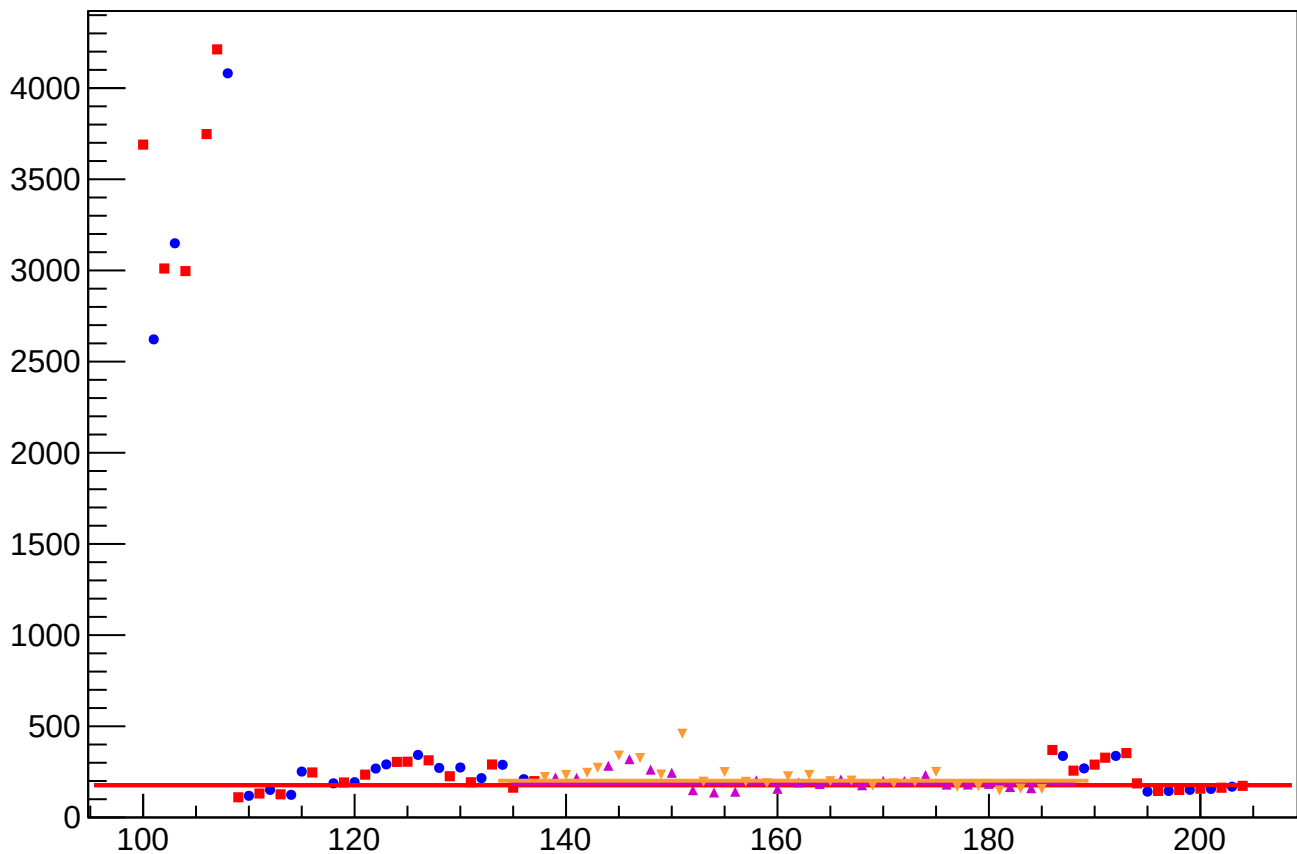
Right: -13.852 ± 38.841 $\chi^2/\text{NDF}: 35.3/54$

In: 11.700 ± 35.834 $\chi^2/\text{NDF}: 27.6/47$

Out: -12.507 ± 36.086 $\chi^2/\text{NDF}: 24.1/54$

All: -0.319 ± 25.427 $\chi^2/\text{NDF}: 51.9/102$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.317 $\pm$ 0.040 χ^2 /NDF: 4448057.8/24

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 177.809 $\pm$ 0.038 χ^2 /NDF: 5263366.5/29

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2 /NDF: 3343425.2/47

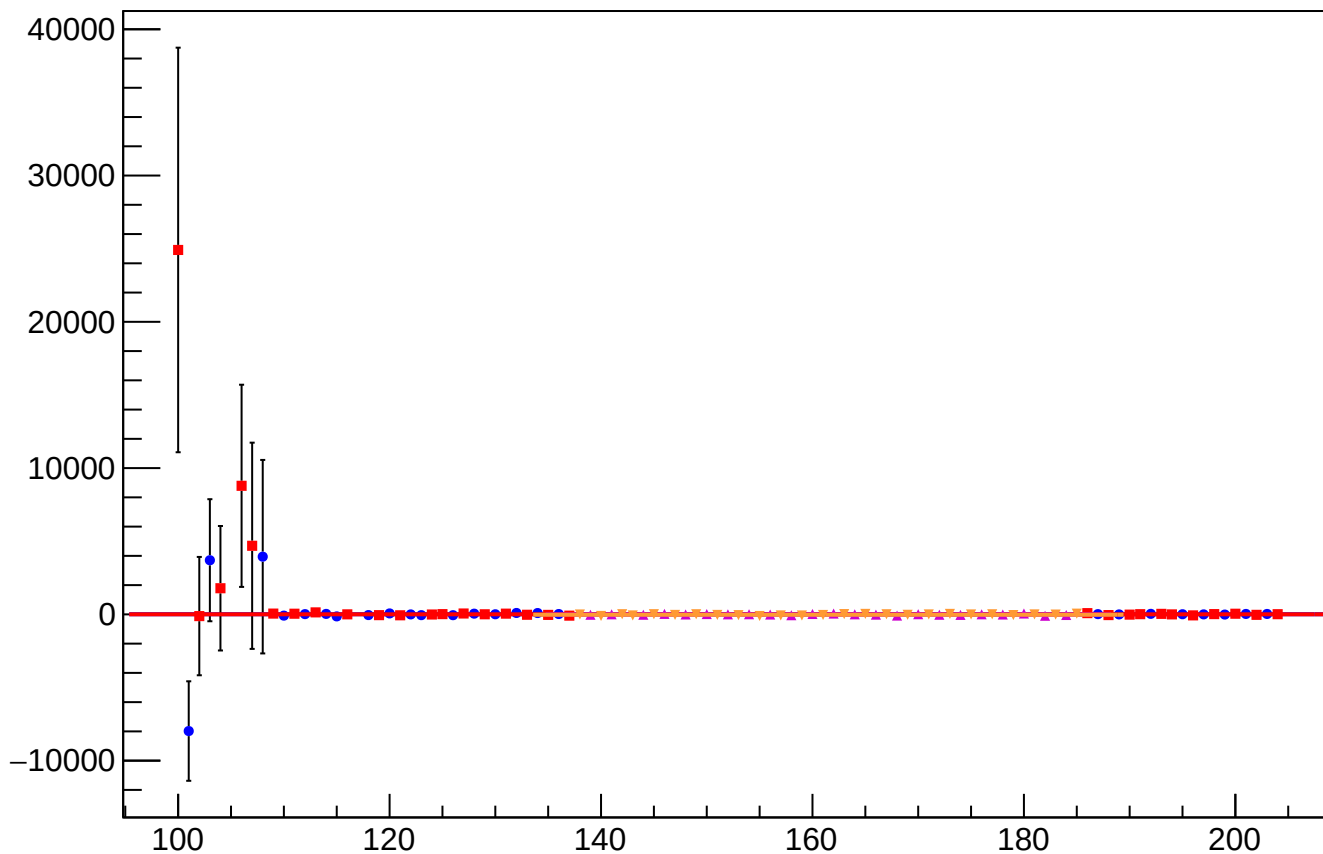
Right: 177.098 $\pm$ 0.027 χ^2 /NDF: 9712160.1/54

In: 181.999 $\pm$ 0.025 χ^2 /NDF:5863266.9/47

Out: 190.799 $\pm$ 0.026 χ^2 /NDF:7331826.3/54

All: 186.368 $\pm$ 0.018 χ^2 /NDF: 13254979.5/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.173+/-10.289 χ^2/NDF : 21.8/24

Left Out: -24.144+/-8.076 χ^2/NDF :24.9/24

Right Out: 4.931+/-9.637 χ^2/NDF : 31.7/29

Left In: -5.924+/-8.340 χ^2/NDF :21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

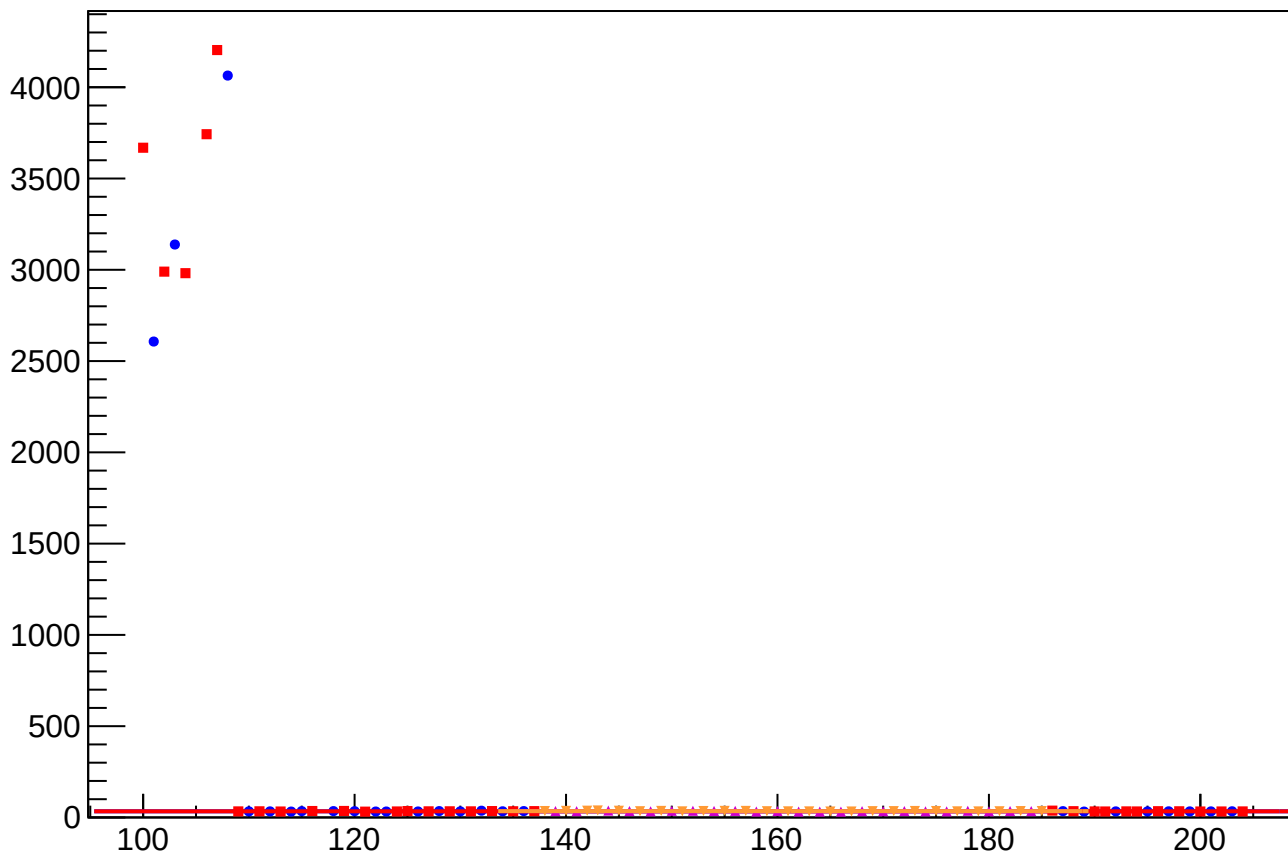
Right: 7.381+/-7.034 χ^2/NDF : 53.6/54

In: 0.459+/-6.479 χ^2/NDF :44.2/47

Out: -12.149+/-6.190 χ^2/NDF :61.9/54

All: -6.132+/-4.476 χ^2/NDF : 108.1/102

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.697 $\pm$ 0.007 χ^2 /NDF: 3011948.2/24

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.685 $\pm$ 0.007 χ^2 /NDF: 3466370.1/29

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

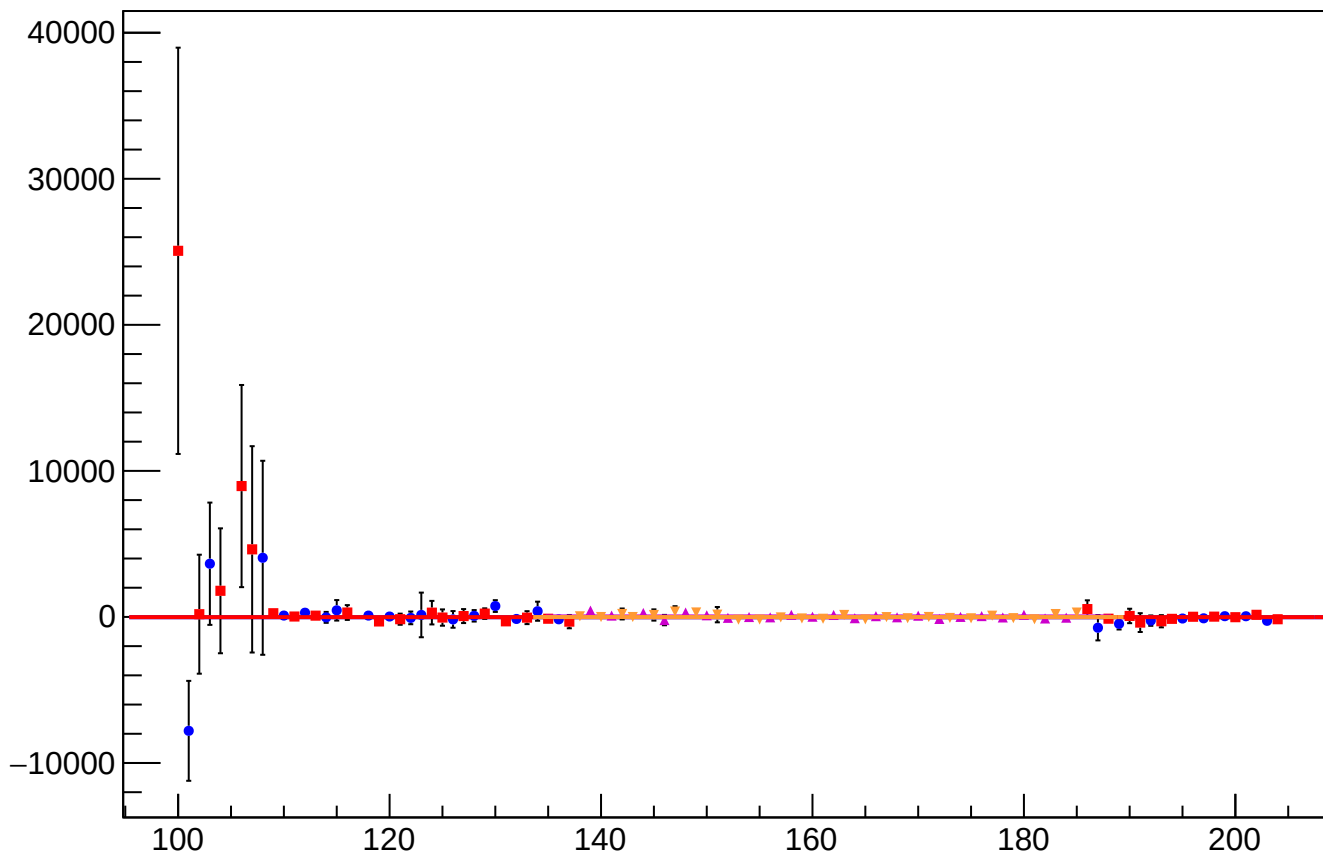
Right: 33.691 $\pm$ 0.005 χ^2 /NDF: 6478319.6/54

In: 34.291 $\pm$ 0.005 χ^2 /NDF: 3082843.2/47

Out: 34.233 $\pm$ 0.004 χ^2 /NDF: 3535226.5/54

All: 34.261 $\pm$ 0.003 χ^2 /NDF: 6618154.1/102

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -21.174 ± 56.086 χ^2/NDF : 18.9/24

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: -13.900 ± 53.470 χ^2/NDF : 14.3/29

Left In: 34.977 ± 46.421 χ^2/NDF : 7.1/22

Left: 14.712 ± 33.589 χ^2/NDF : 16.3/47

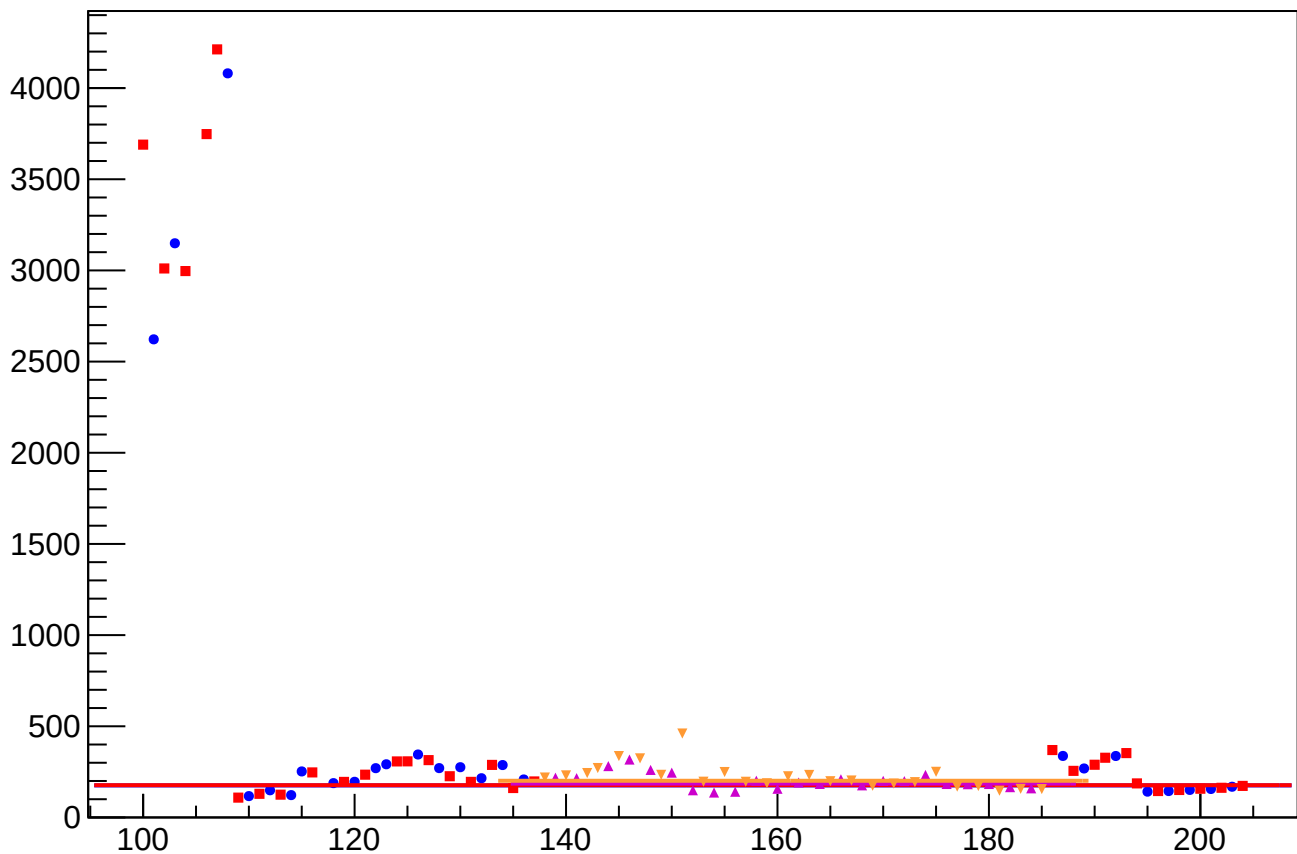
Right: -17.364 ± 38.701 χ^2/NDF : 33.3/54

In: 12.149 ± 35.761 χ^2/NDF : 26.7/47

Out: -10.431 ± 35.989 χ^2/NDF : 23.1/54

All: 0.931 ± 25.367 χ^2/NDF : 49.9/102

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.661 $\pm$ 0.040 χ^2 /NDF: 4477508.1/24

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 176.871 $\pm$ 0.038 χ^2 /NDF: 5313614.8/29

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

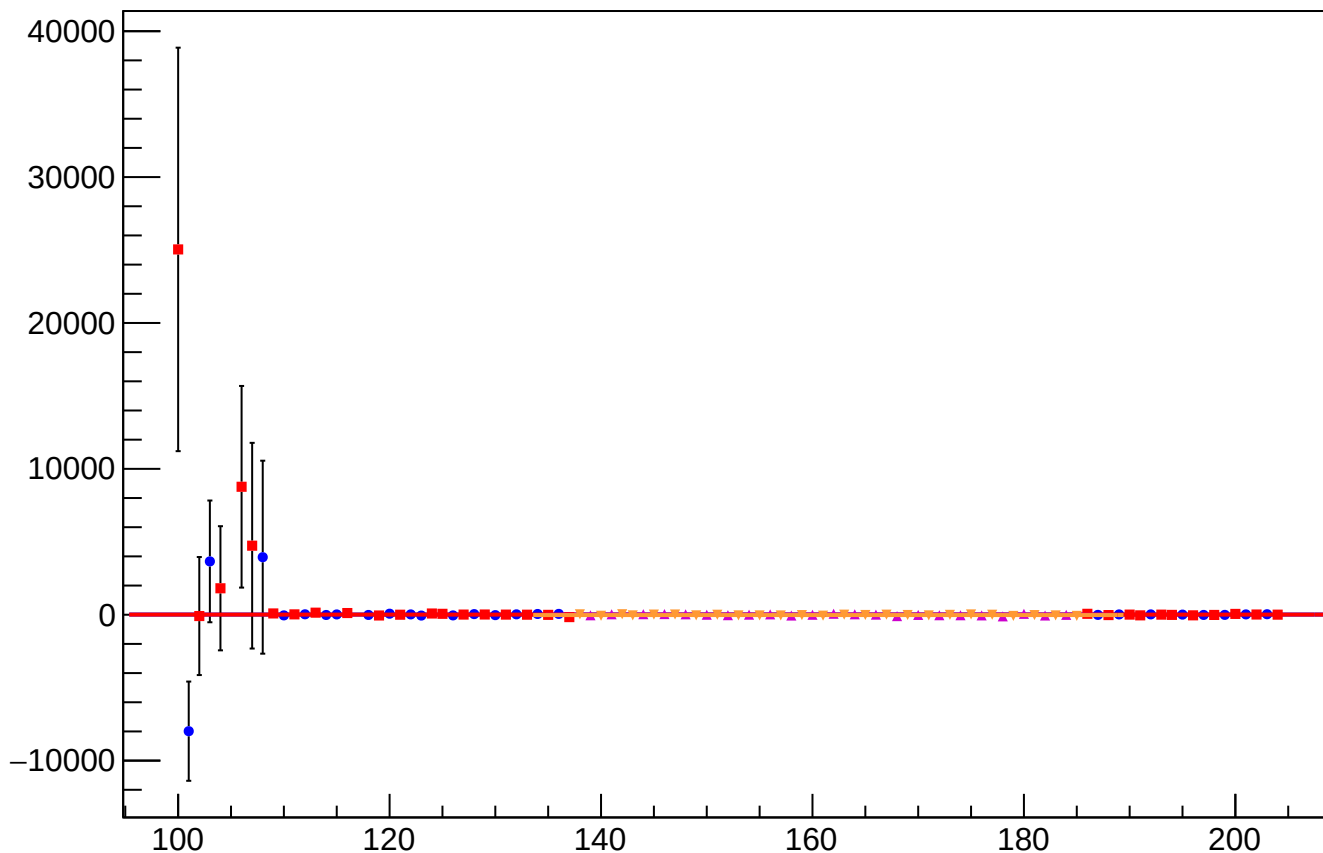
Right: 176.295 $\pm$ 0.027 χ^2 /NDF: 9791610.4/54

In: 181.576 $\pm$ 0.025 χ^2 /NDF:5886400.3/47

Out: 190.177 $\pm$ 0.025 χ^2 /NDF:7388504.7/54

All: 185.849 $\pm$ 0.018 χ^2 /NDF: 13332393.1/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 12.937+/-9.328 χ^2/NDF : 16.5/24

Left Out: -23.320+/-7.352 χ^2/NDF : 18.3/24

Right Out: 9.726+/-8.734 χ^2/NDF : 36.2/29

Left In: -6.386+/-7.577 χ^2/NDF : 38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

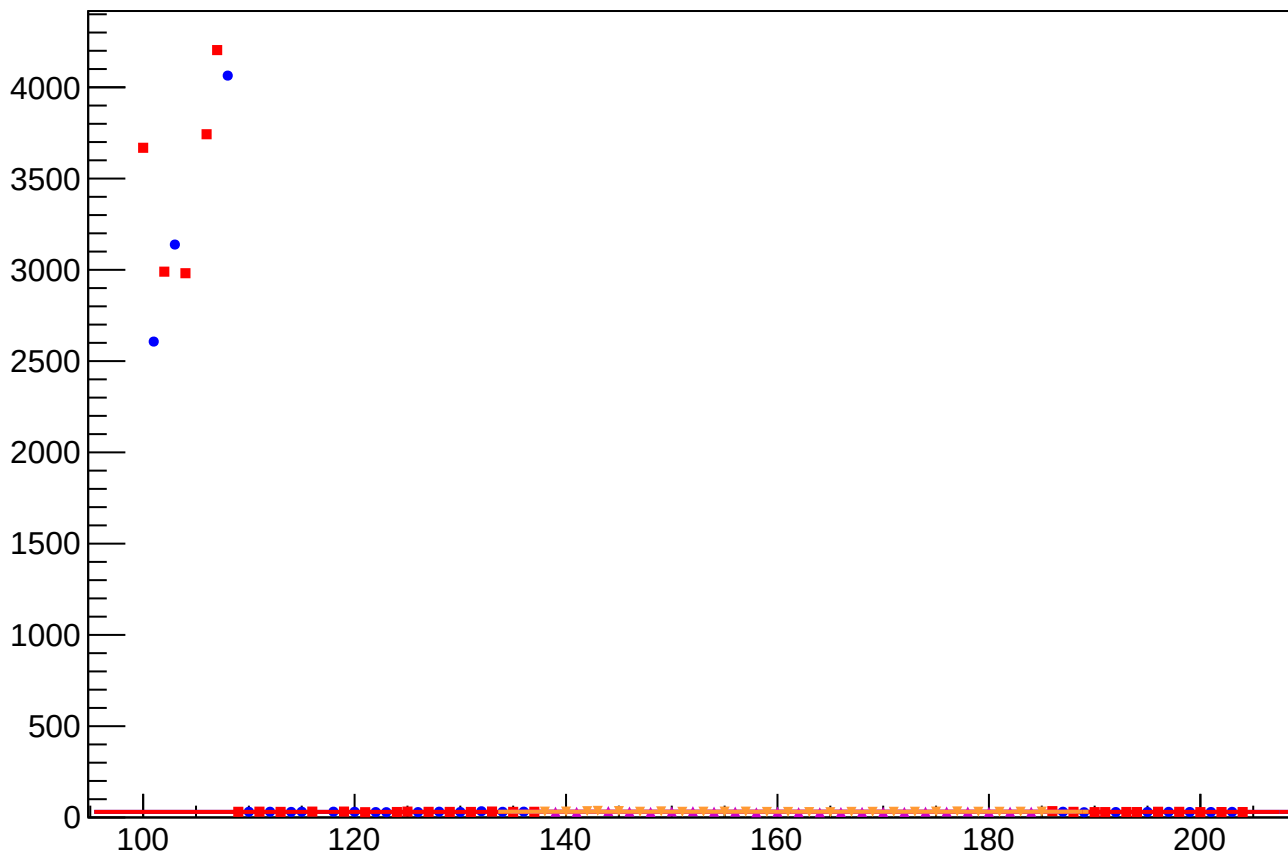
Right: 11.226+/-6.375 χ^2/NDF : 52.8/54

In: 1.295+/-5.881 χ^2/NDF : 57.9/47

Out: -9.615+/-5.624 χ^2/NDF : 62.9/54

All: -4.403+/-4.065 χ^2/NDF : 122.5/102

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.540 $\pm$ 0.007 χ^2 /NDF: 3026142.9/24

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.501 $\pm$ 0.006 χ^2 /NDF: 3482188.7/29

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

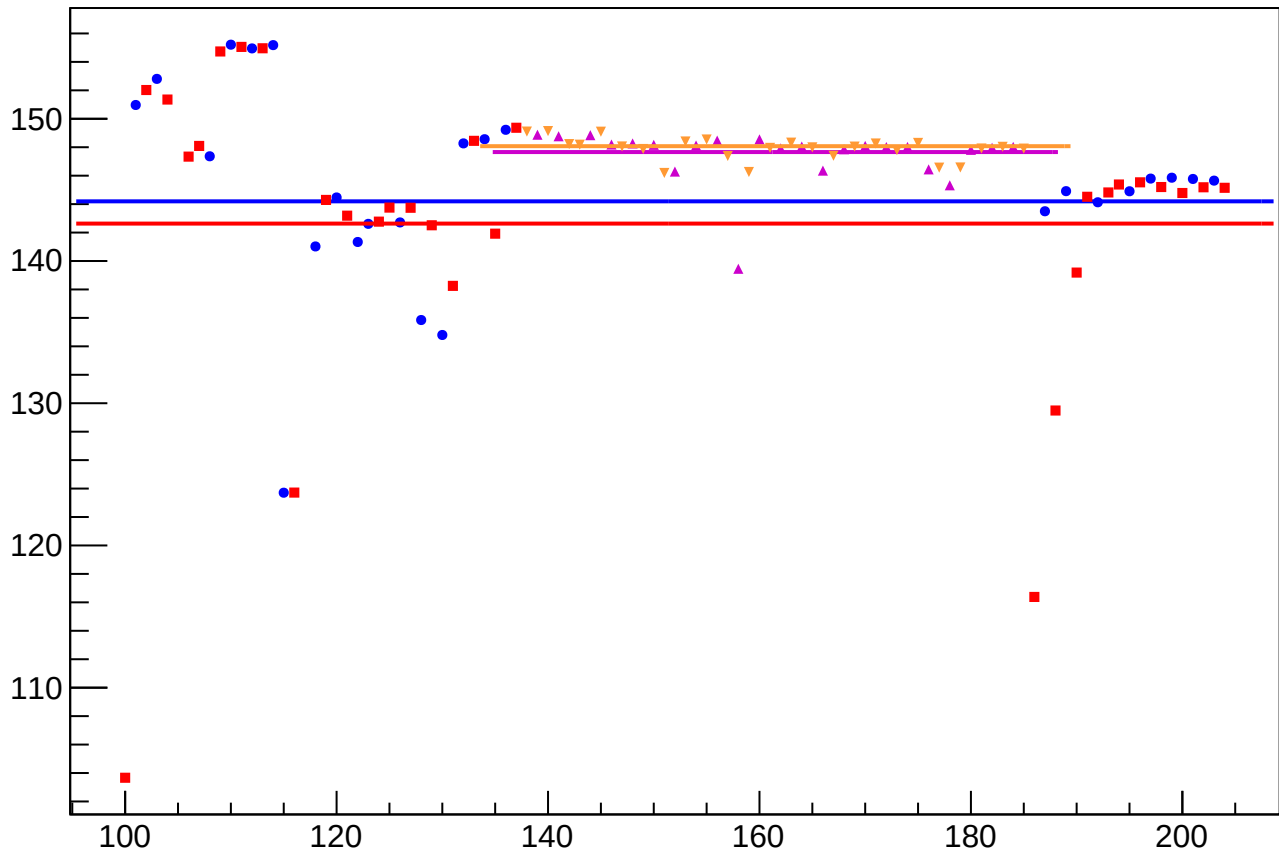
Right: 30.520 $\pm$ 0.005 χ^2 /NDF: 6508350.3/54

In: 31.104 $\pm$ 0.004 χ^2 /NDF: 3126048.6/47

Out: 31.079 $\pm$ 0.004 χ^2 /NDF: 3579081.5/54

All: 31.091 $\pm$ 0.003 χ^2 /NDF: 6705148.5/102

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.196 $\pm$ 0.000 χ^2 /NDF: 3482731531.6/24

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 142.631 $\pm$ 0.000 χ^2 /NDF: 7392236268.4/29

Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2 /NDF: 417177881.5/47

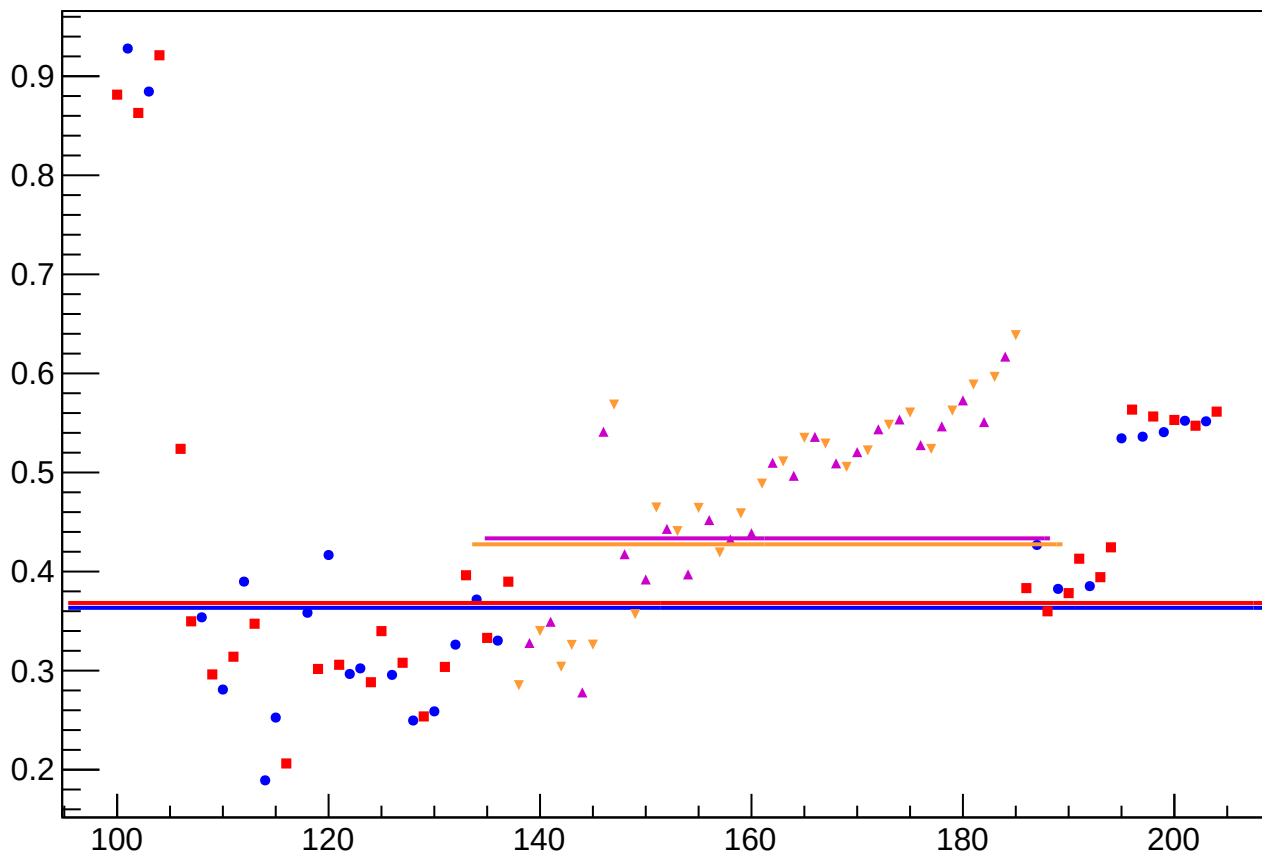
Right: 143.357 $\pm$ 0.000 χ^2 /NDF: 10977115814.8/54

In: 146.013 $\pm$ 0.000 χ^2 /NDF: 4316803336.8/47

Out: 145.392 $\pm$ 0.000 χ^2 /NDF: 8809462105.6/54

All: 145.686 $\pm$ 0.000 χ^2 /NDF: 13159464325.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.363+/-0.000 χ^2/NDF : 2348386.7/24

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.368+/-0.000 χ^2/NDF : 2321818.6/29

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

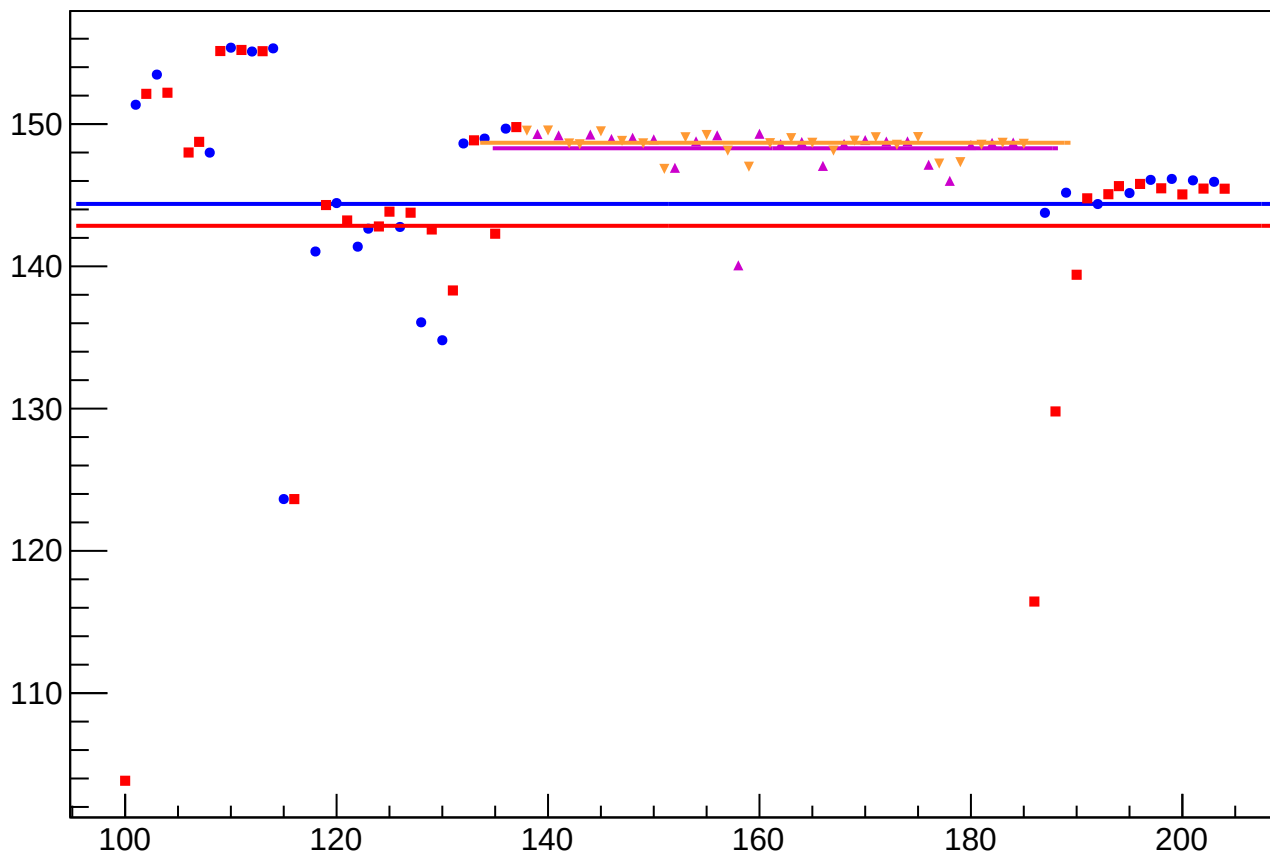
Right: 0.366+/-0.000 χ^2/NDF : 4672210.5/54

In: 0.400+/-0.000 χ^2/NDF :4229118.9/47

Out: 0.398+/-0.000 χ^2/NDF :4534579.0/54

All: 0.399+/-0.000 χ^2/NDF : 8764270.4/102

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.387 $\pm$ 0.000 χ^2 /NDF: 3530706171.2/24

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.849 $\pm$ 0.000 χ^2 /NDF: 7340305617.6/29

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

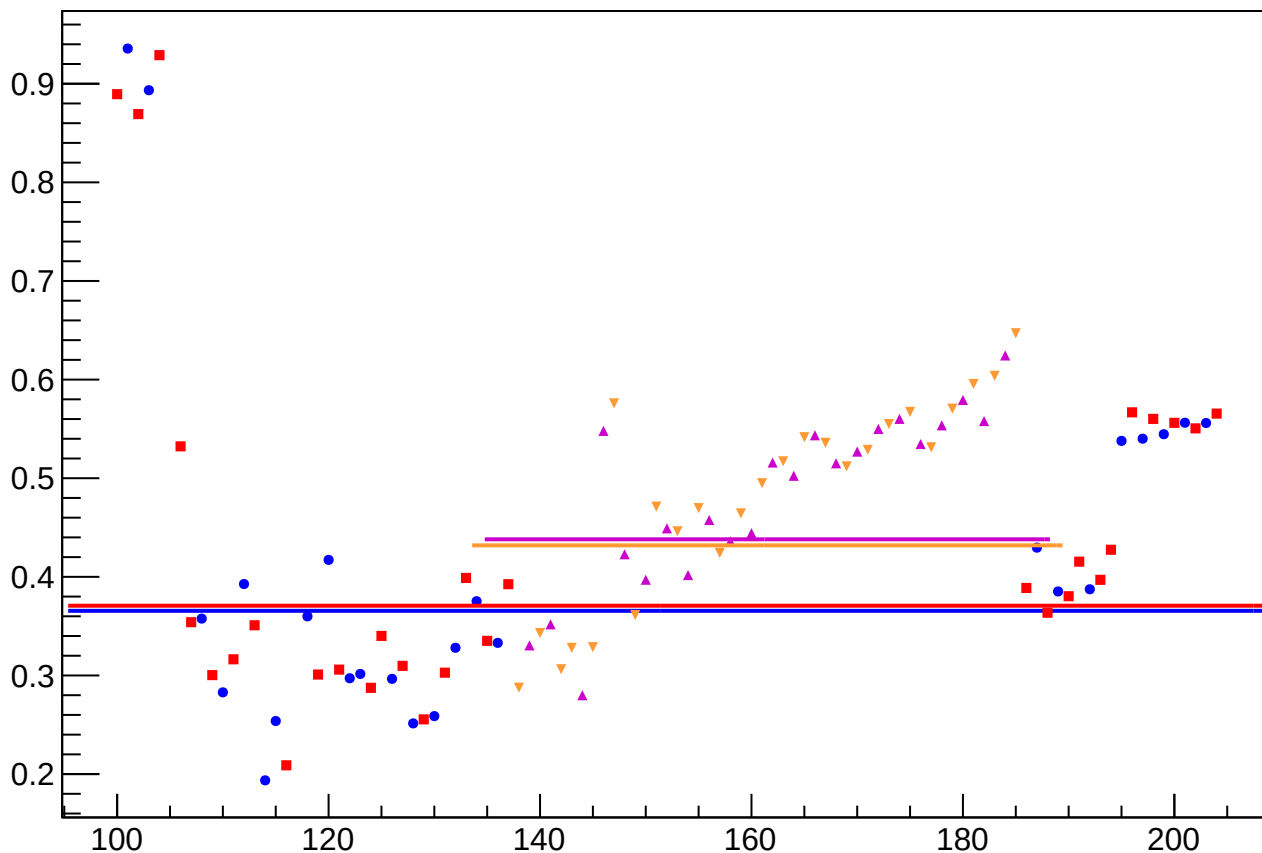
Right: 143.563 $\pm$ 0.000 χ^2 /NDF: 10968500007.9/54

In: 146.429 $\pm$ 0.000 χ^2 /NDF: 4477285417.2/47

Out: 145.799 $\pm$ 0.000 χ^2 /NDF: 8920691512.3/54

All: 146.097 $\pm$ 0.000 χ^2 /NDF: 13431591593.6/104

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.366 $\pm$ 0.000 χ^2 /NDF: 2354888.0/24

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.371 $\pm$ 0.000 χ^2 /NDF: 2326004.7/29

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

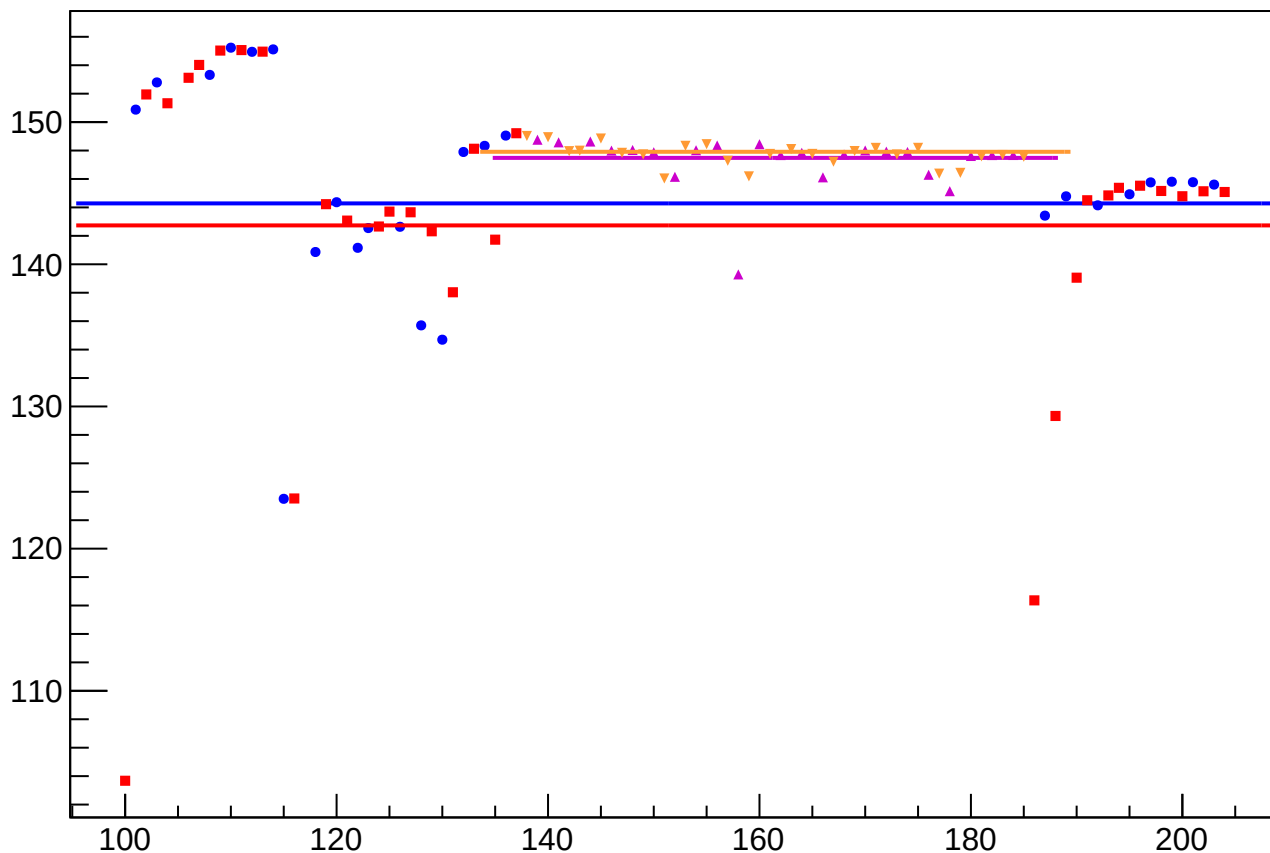
Right: 0.368 $\pm$ 0.000 χ^2 /NDF: 4683110.1/54

In: 0.403 $\pm$ 0.000 χ^2 /NDF:4281685.8/47

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:4586573.9/54

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 8868778.0/102

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.282 $\pm$ 0.000 χ^2 /NDF: 3689772596.2/24

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.734 $\pm$ 0.000 χ^2 /NDF: 7771716707.7/29

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

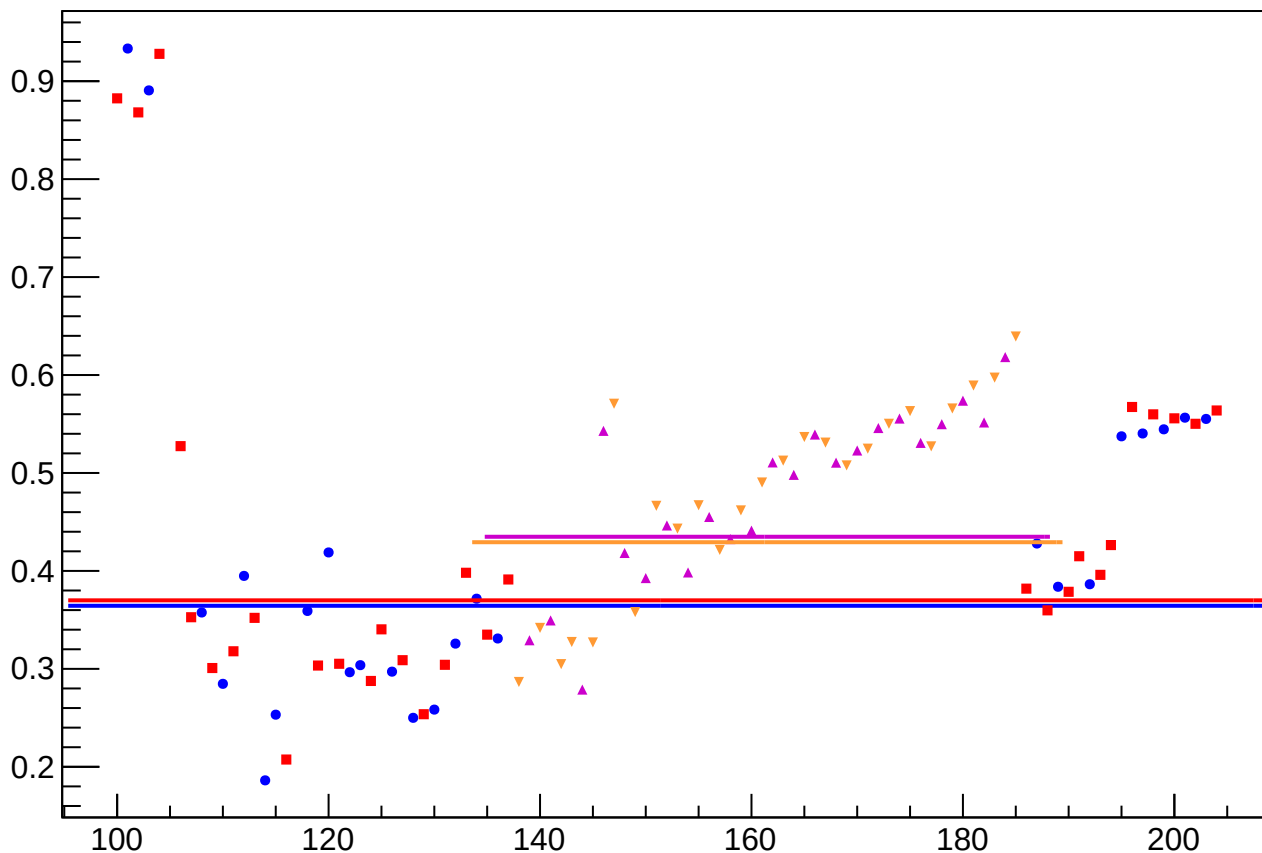
Right: 143.453 $\pm$ 0.000 χ^2 /NDF: 11560666482.7/54

In: 145.962 $\pm$ 0.000 χ^2 /NDF: 4447968114.0/47

Out: 145.362 $\pm$ 0.000 χ^2 /NDF: 9048635103.0/54

All: 145.646 $\pm$ 0.000 χ^2 /NDF: 13527380809.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.364 $\pm$ 0.000 χ^2 /NDF: 2378765.2/24

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.370 $\pm$ 0.000 χ^2 /NDF: 2326694.8/29

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

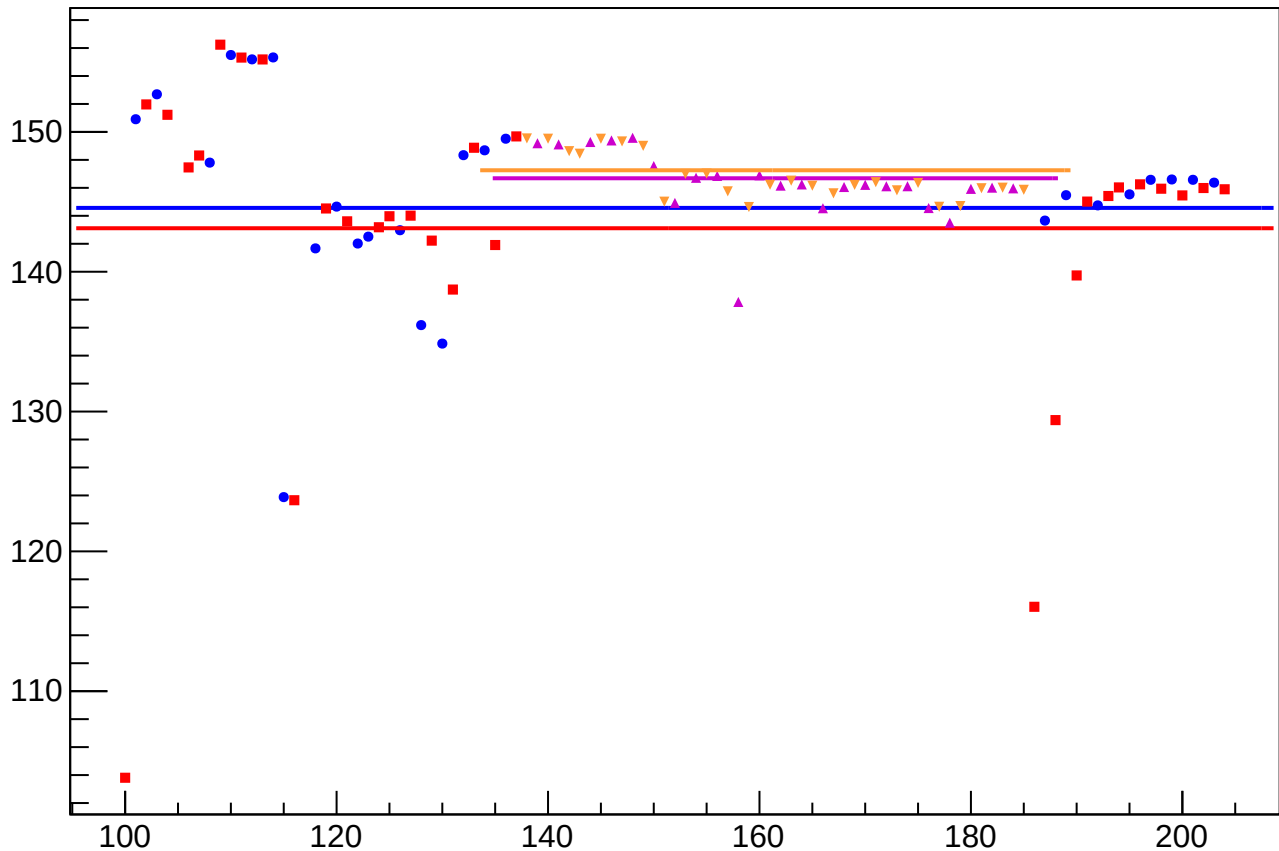
Right: 0.367 $\pm$ 0.000 χ^2 /NDF: 4708006.6/54

In: 0.401 $\pm$ 0.000 χ^2 /NDF:4267337.6/47

Out: 0.400 $\pm$ 0.000 χ^2 /NDF:4536934.5/54

All: 0.401 $\pm$ 0.000 χ^2 /NDF: 8804562.7/102

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.566 $\pm$ 0.000 χ^2/NDF : 3212585916.0/24

Left Out: 147.257 $\pm$ 0.000 χ^2/NDF : 261906278.3/24

Right Out: 143.111 $\pm$ 0.000 χ^2/NDF : 7104903386.0/29

Left In: 146.685 $\pm$ 0.000 χ^2/NDF : 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2/NDF : 830580031.2/47

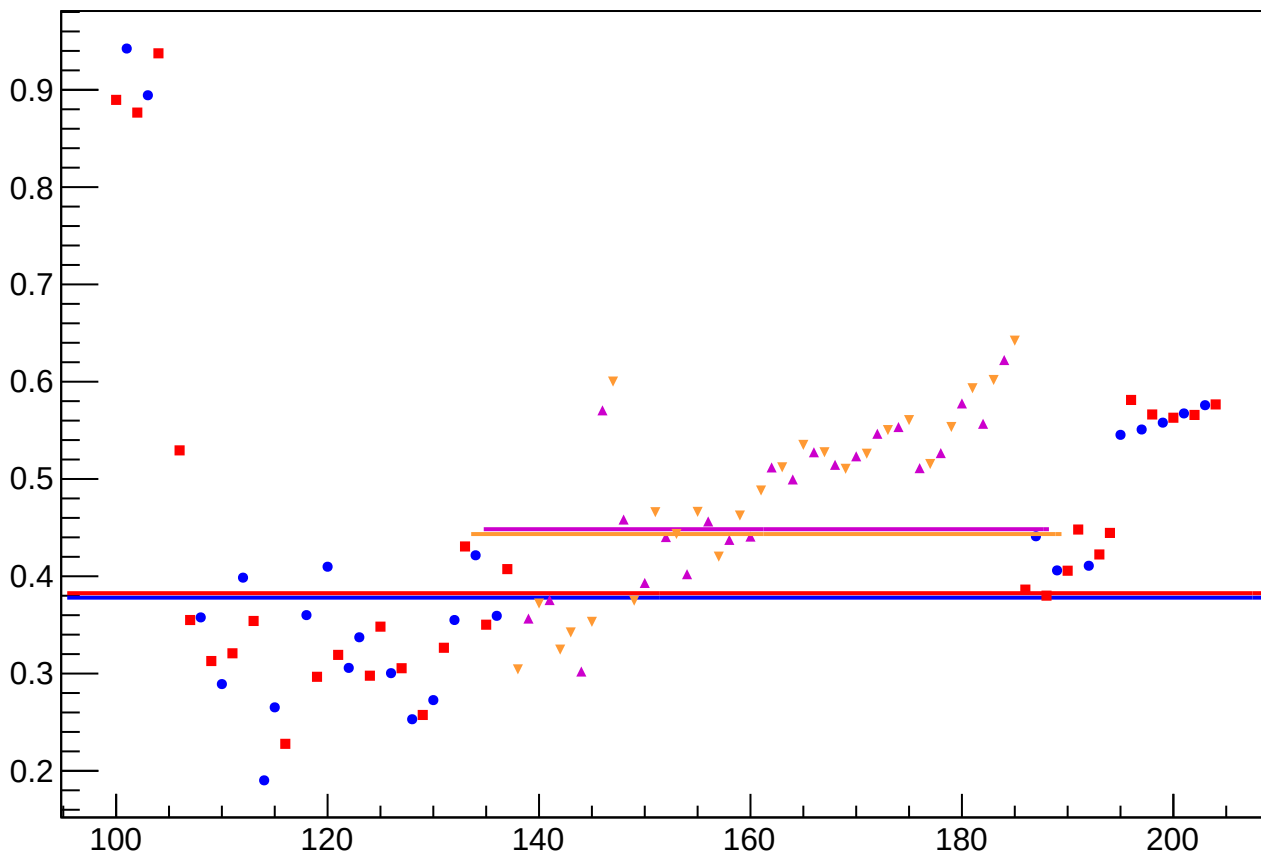
Right: 143.785 $\pm$ 0.000 χ^2/NDF : 10399010330.8/54

In: 145.690 $\pm$ 0.000 χ^2/NDF : 3938370066.5/47

Out: 145.230 $\pm$ 0.000 χ^2/NDF : 8097498613.5/54

All: 145.448 $\pm$ 0.000 χ^2/NDF : 12052909682.0/105

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.378 $\pm$ 0.000 χ^2 /NDF: 2326058.4/24

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.383 $\pm$ 0.000 χ^2 /NDF: 2267045.0/29

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

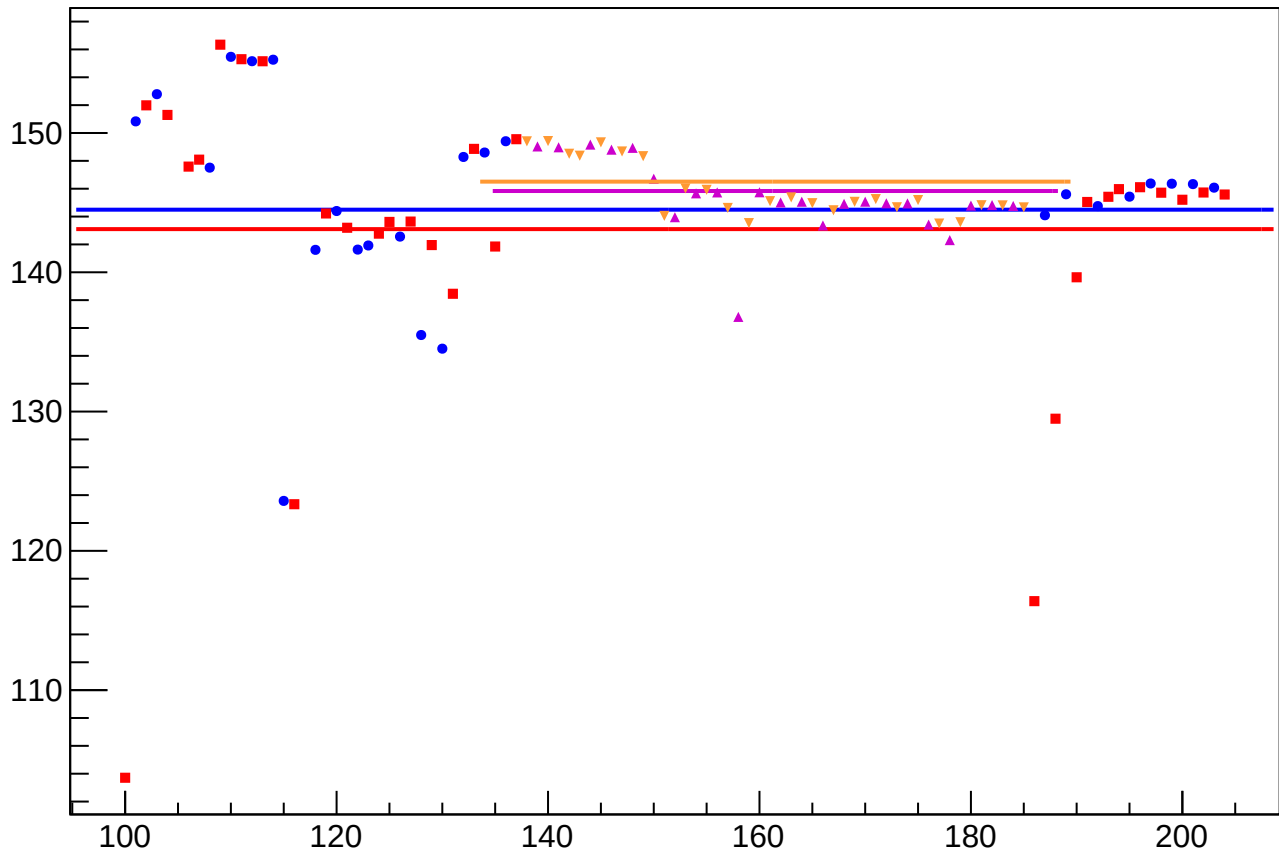
Right: 0.380 $\pm$ 0.000 χ^2 /NDF: 4594716.3/54

In: 0.415 $\pm$ 0.000 χ^2 /NDF:3822995.0/47

Out: 0.414 $\pm$ 0.000 χ^2 /NDF:4061468.8/54

All: 0.414 $\pm$ 0.000 χ^2 /NDF: 7884923.5/102

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.494 ± 0.000 $\chi^2/\text{NDF}: 3324511095.7/24$

Left Out: 146.508 ± 0.000 $\chi^2/\text{NDF}: 401248837.9/24$

Right Out: 143.099 ± 0.000 $\chi^2/\text{NDF}: 7062764243.5/29$

Left In: 145.834 ± 0.000 $\chi^2/\text{NDF}: 690172810.0/22$

Left: 146.184 ± 0.000 $\chi^2/\text{NDF}: 1110403123.5/47$

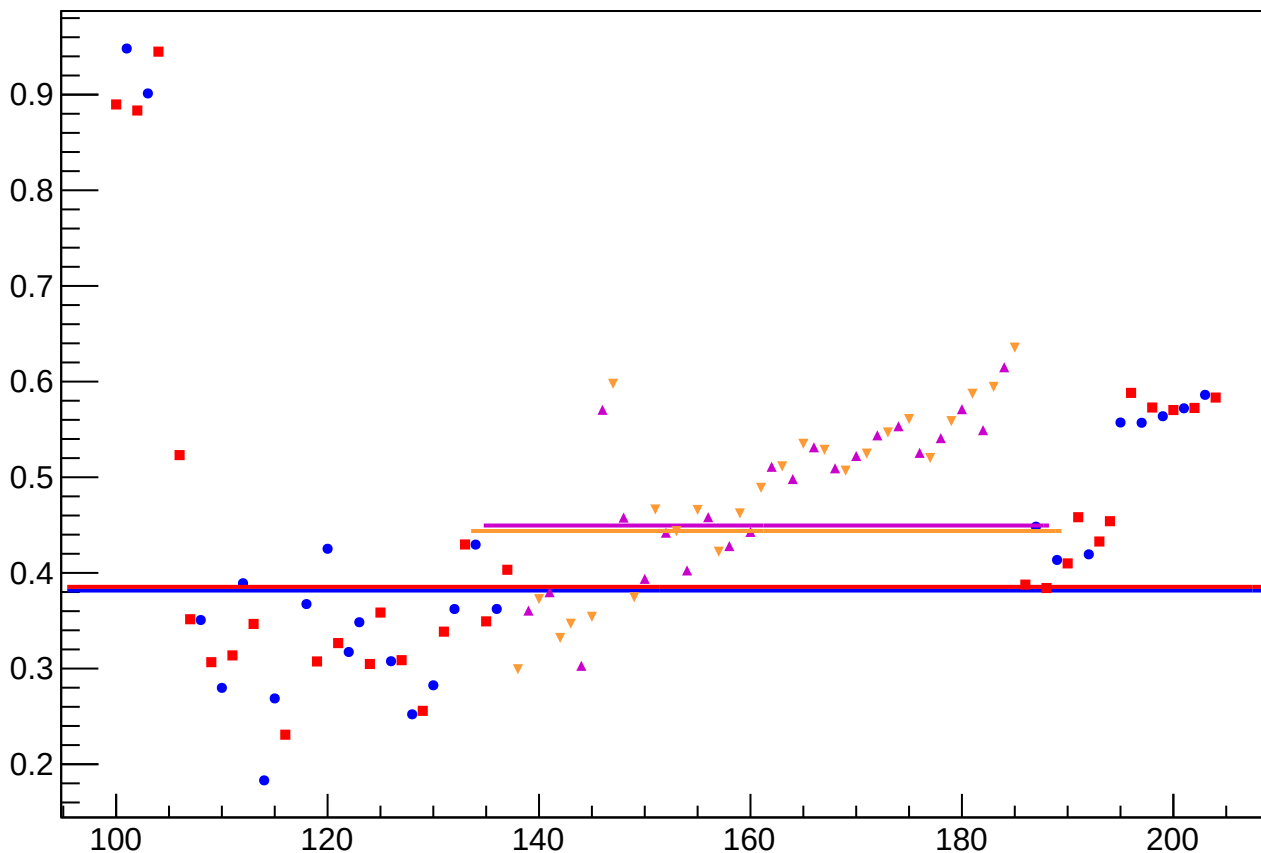
Right: 143.743 ± 0.000 $\chi^2/\text{NDF}: 10460691683.2/54$

In: 145.211 ± 0.000 $\chi^2/\text{NDF}: 4082046498.1/47$

Out: 144.855 ± 0.000 $\chi^2/\text{NDF}: 7952913649.1/54$

All: 145.023 ± 0.000 $\chi^2/\text{NDF}: 12045050310.0/100$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 2369829.0/24

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.385 $\pm$ 0.000 χ^2 /NDF: 2292638.5/29

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2555905.8/47

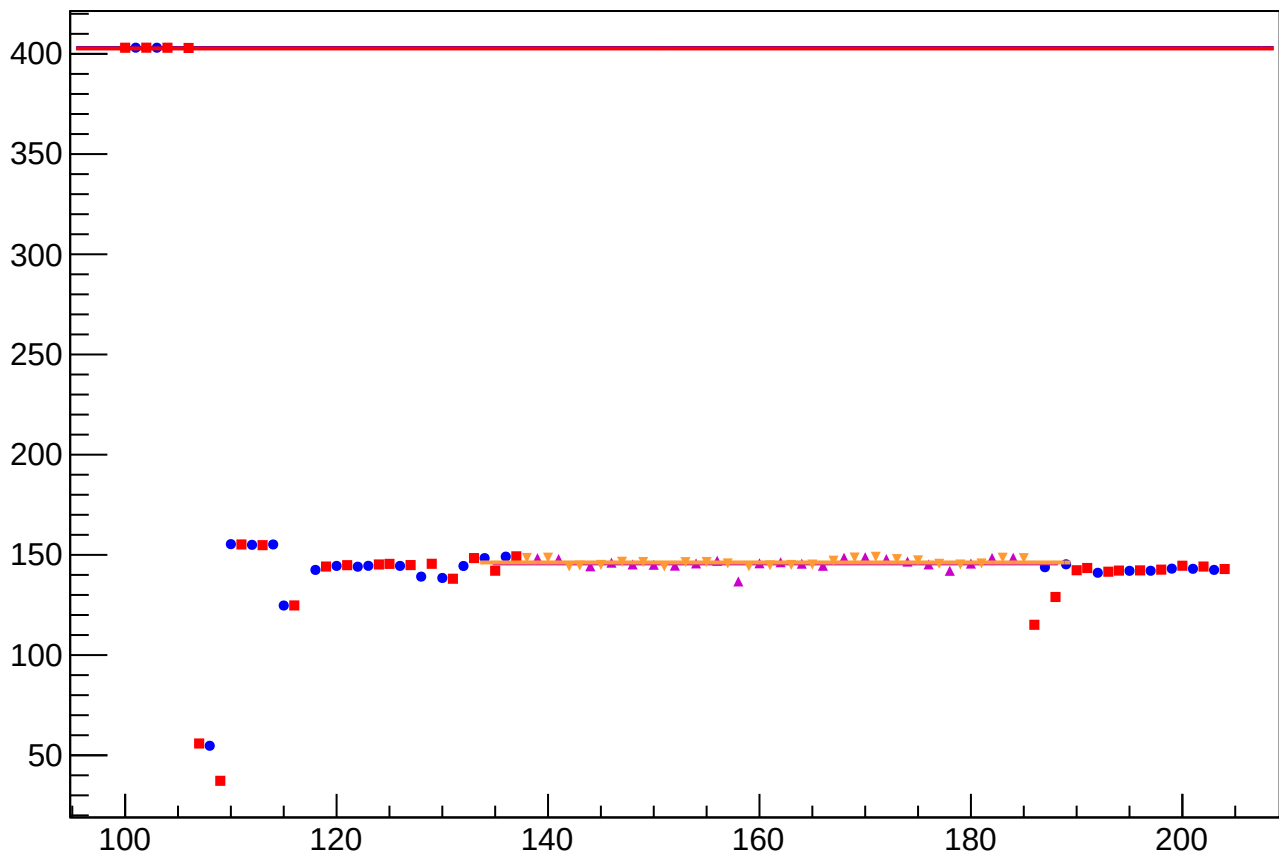
Right: 0.384 $\pm$ 0.000 χ^2 /NDF: 4663588.9/54

In: 0.418 $\pm$ 0.000 χ^2 /NDF:3809071.7/47

Out: 0.415 $\pm$ 0.000 χ^2 /NDF:4039728.5/54

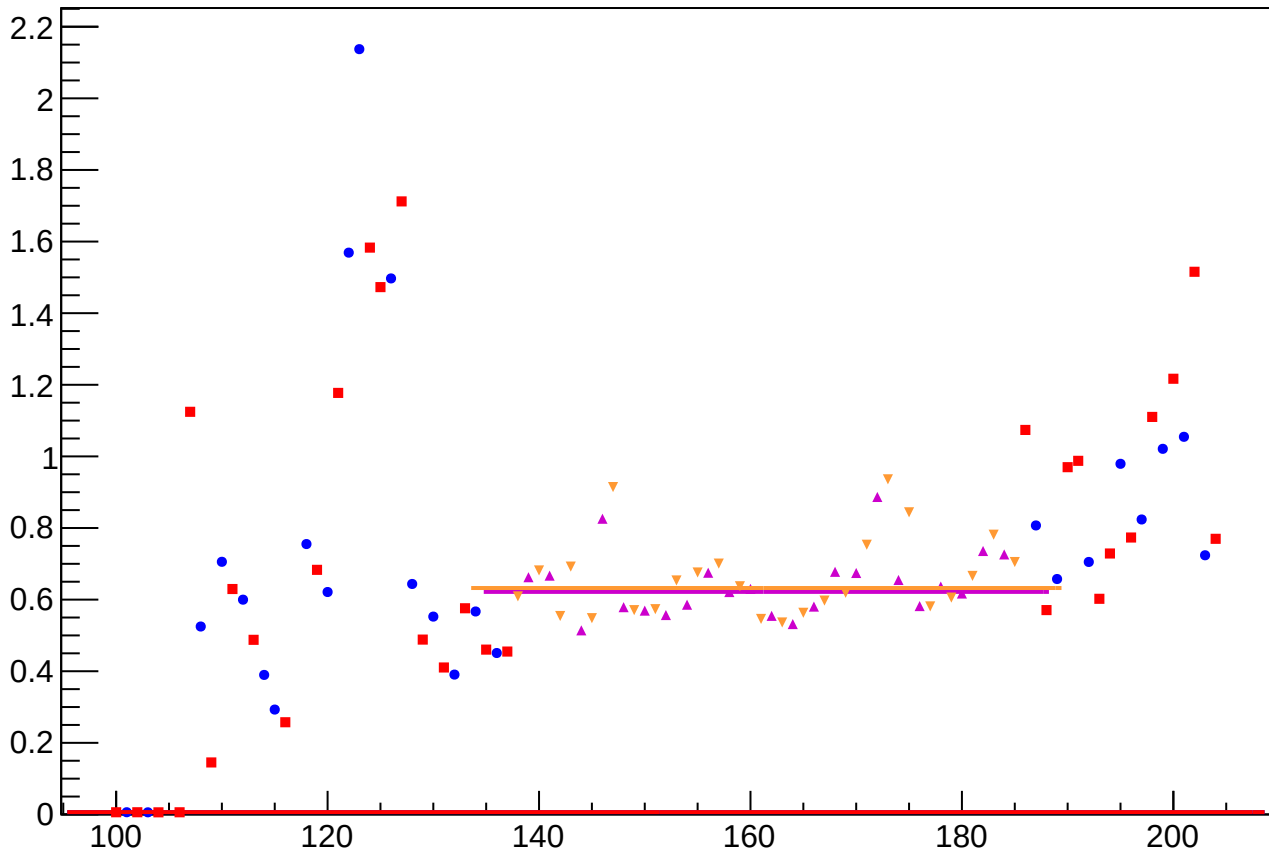
All: 0.417 $\pm$ 0.000 χ^2 /NDF: 7849744.6/102

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.904 $\pm$ 0.000 χ^2 /NDF: 1526334765288.0/24
 Left Out: 146.216 $\pm$ 0.000 χ^2 /NDF: 86042286.3/24
 Right Out: 402.728 $\pm$ 0.000 χ^2 /NDF: 3762560102250.0/29
 Left In: 145.755 $\pm$ 0.000 χ^2 /NDF: 206171532.0/22
 Left: 145.987 $\pm$ 0.000 χ^2 /NDF: 295994641.0/47
 Right: 402.811 $\pm$ 0.000 χ^2 /NDF: 5289409000517.0/47
 In: 402.613 $\pm$ 0.000 χ^2 /NDF: 3857644431491.4/47
 Out: 402.467 $\pm$ 0.000 χ^2 /NDF: 6119956164588.0/51
 All: 402.536 $\pm$ 0.000 χ^2 /NDF: 997795304588.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 17611795.1/24

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 20774388.5/29

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:399965.3/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1017722.4/47

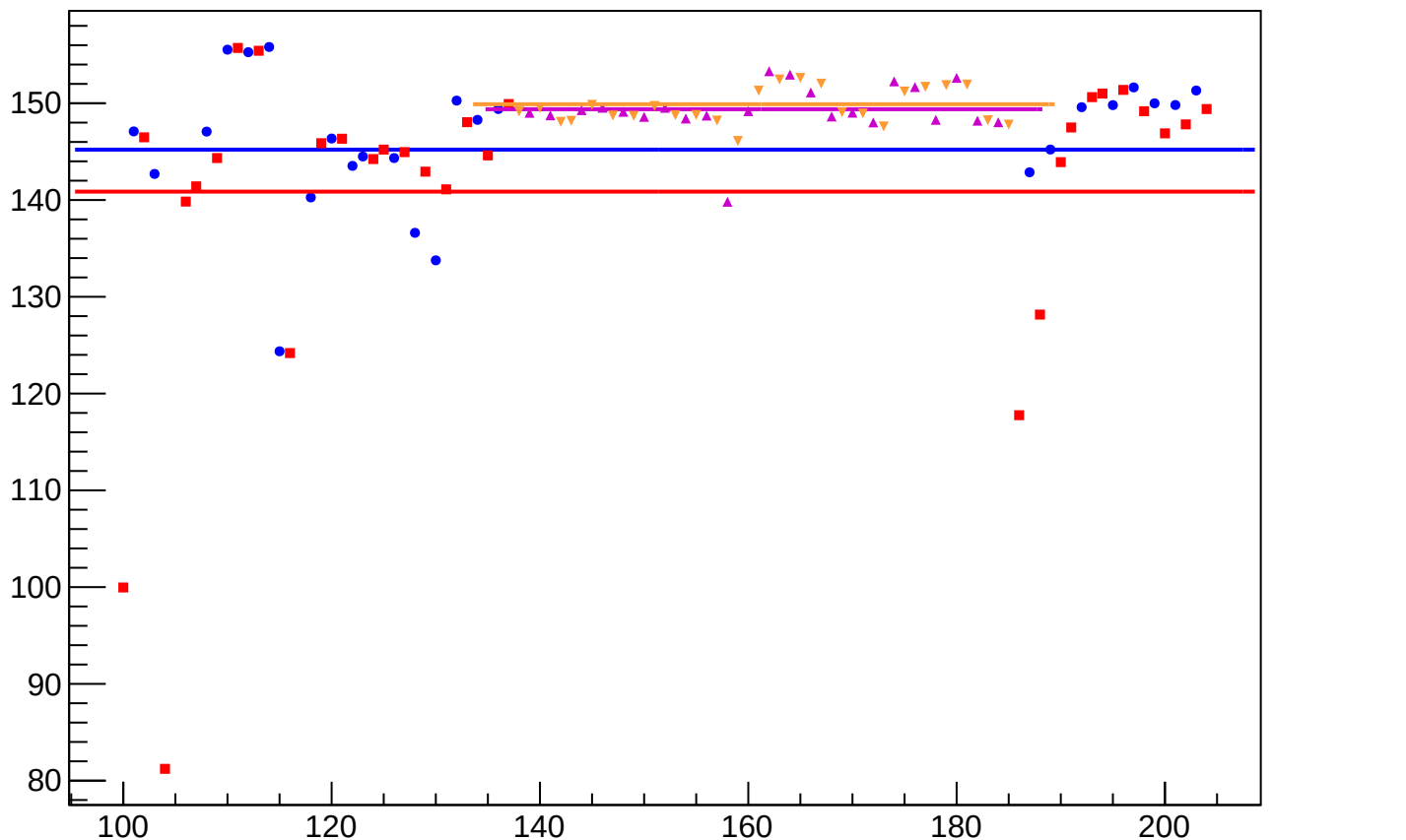
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 38386206.0/54

In: 0.007 $\pm$ 0.000 χ^2 /NDF:44687382.7/47

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:49456087.6/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 94143509.2/102

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.206 $\pm$ 0.000 χ^2 /NDF: 1299155916.4/24

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 140.869 $\pm$ 0.000 χ^2 /NDF: 3145128641.8/29

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

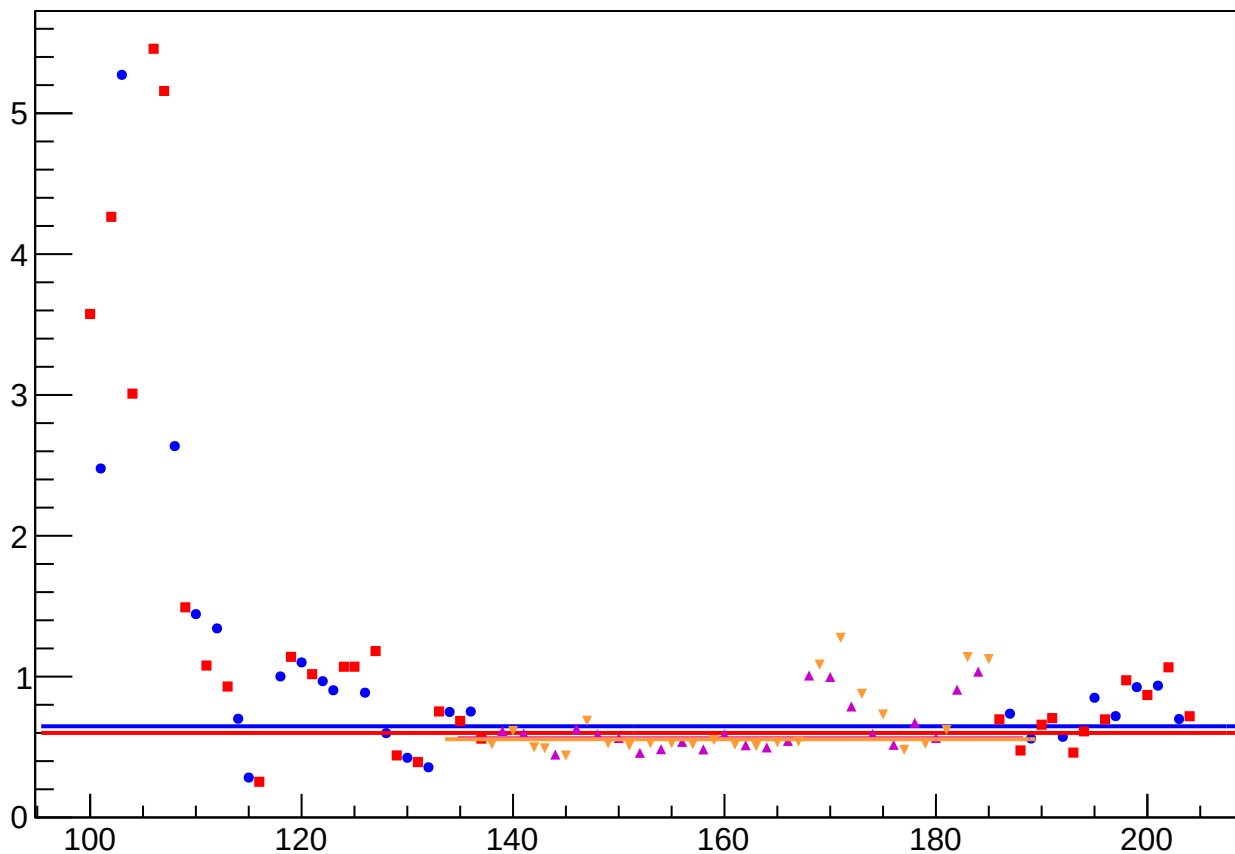
Right: 142.727 $\pm$ 0.000 χ^2 /NDF: 4644788304.2/54

In: 148.200 $\pm$ 0.000 χ^2 /NDF: 1967022363.7/47

Out: 146.929 $\pm$ 0.000 χ^2 /NDF: 4669486941.2/54

All: 147.521 $\pm$ 0.000 χ^2 /NDF: 6693456510.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.647 $\pm$ 0.000 χ^2 /NDF: 3984296.6/24

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.600 $\pm$ 0.000 χ^2 /NDF: 5484211.0/29

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

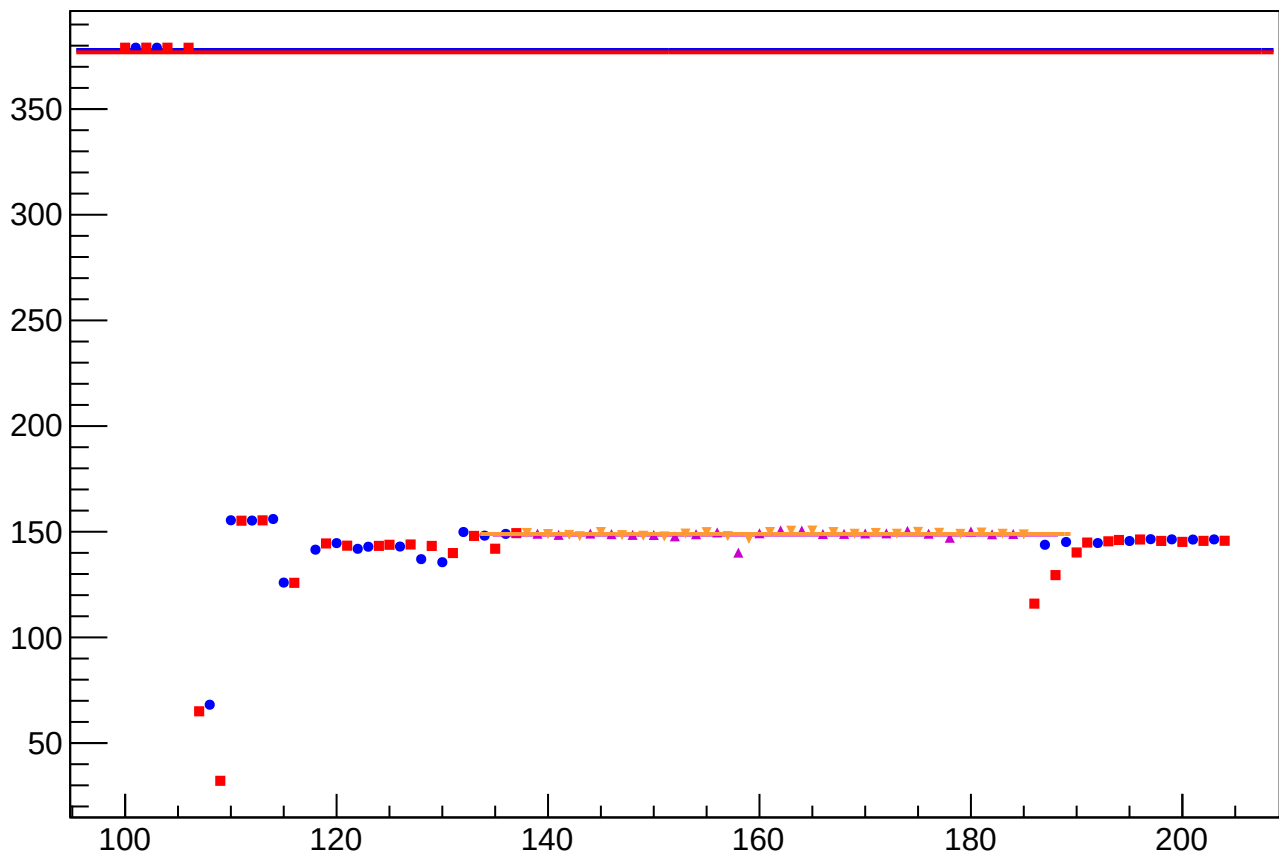
Right: 0.620 $\pm$ 0.000 χ^2 /NDF: 9515975.9/54

In: 0.586 $\pm$ 0.000 χ^2 /NDF:5485961.5/47

Out: 0.570 $\pm$ 0.000 χ^2 /NDF:7324652.8/54

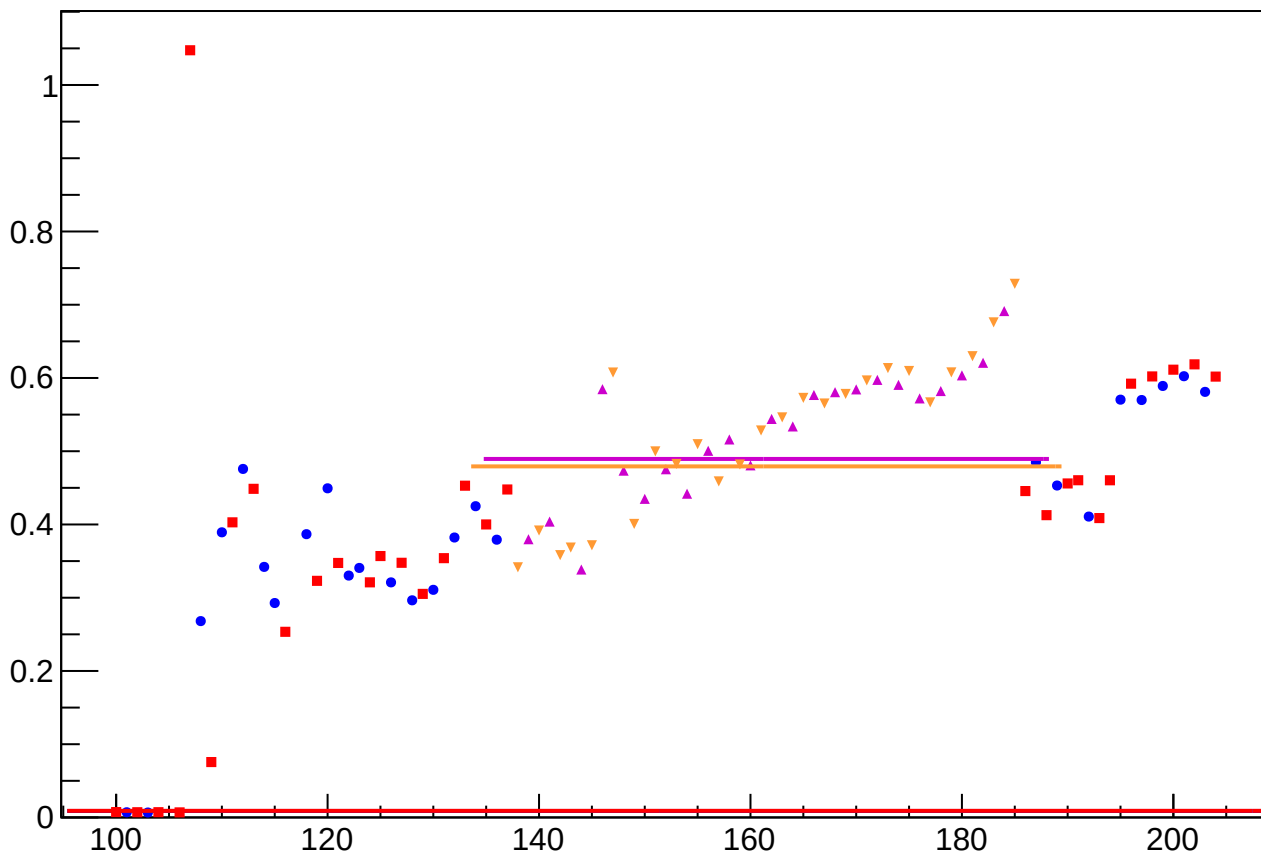
All: 0.578 $\pm$ 0.000 χ^2 /NDF: 12828182.0/102

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.954+/-0.000	χ^2/NDF : 3525157835200.1/24	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.373+/-0.000	χ^2/NDF : 13348348538268.0
Right Out: 376.863+/-0.000	χ^2/NDF : 9814728244310.4/29	In: 376.784+/-0.000	χ^2/NDF : 7102668838316.3/47
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.749+/-0.000	χ^2/NDF : 13676384867301.0
		All: 376.233+/-0.000	χ^2/NDF : 207867070752.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 19986634.5/24

Left Out: 0.479+/-0.000 χ^2/NDF : 1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 22794270.0/29

Left In: 0.489+/-0.000 χ^2/NDF : 1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

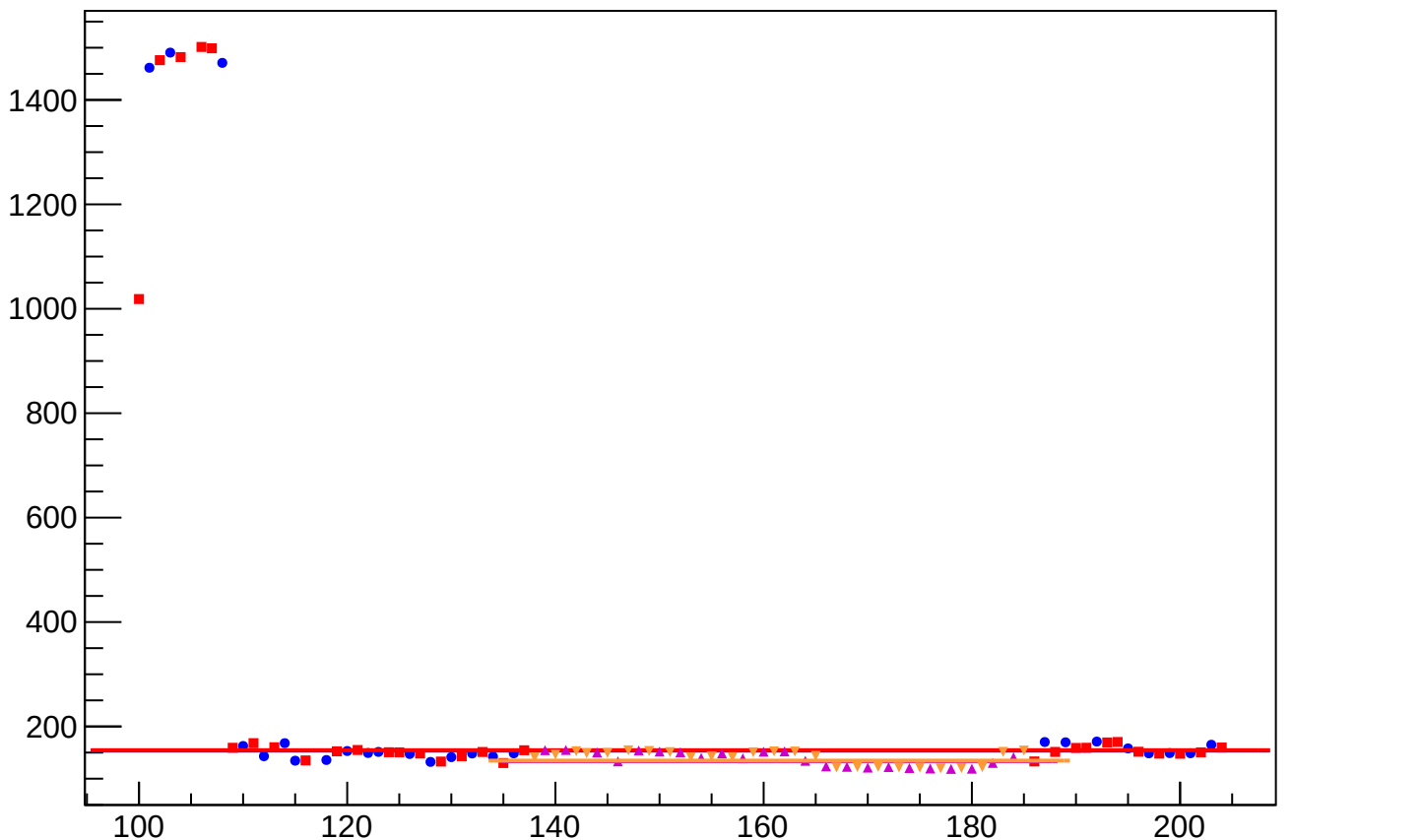
Right: 0.009+/-0.000 χ^2/NDF : 42781309.4/54

In: 0.011+/-0.000 χ^2/NDF : 52499465.2/47

Out: 0.011+/-0.000 χ^2/NDF : 57192883.3/54

All: 0.011+/-0.000 χ^2/NDF : 109692351.5/102

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 153.818 $\pm$ 0.000 χ^2 /NDF: 25633810385.0/24

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 154.566 $\pm$ 0.000 χ^2 /NDF: 34856465207.1/29

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

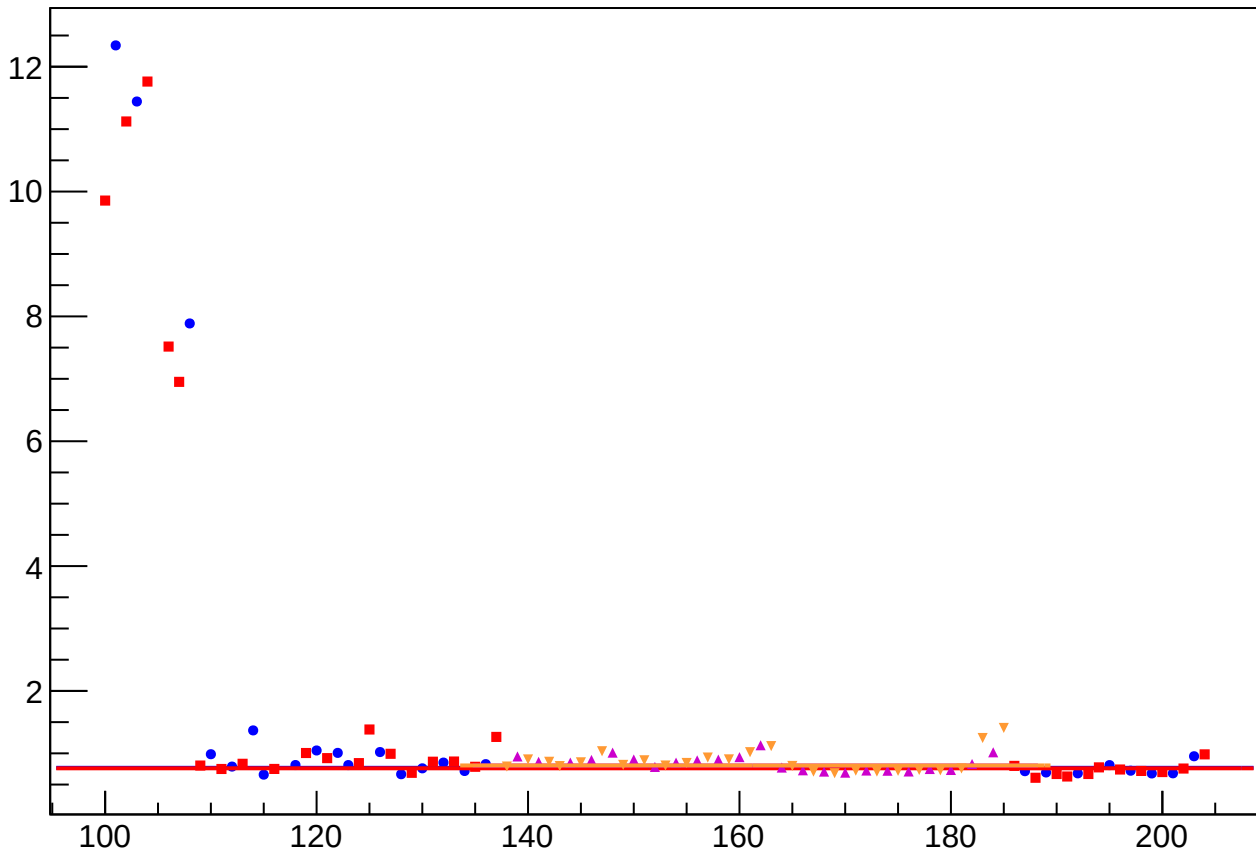
Right: 154.228 $\pm$ 0.000 χ^2 /NDF: 60494735122.1/54

In: 141.313 $\pm$ 0.000 χ^2 /NDF: 33652335103.0/47

Out: 143.080 $\pm$ 0.000 χ^2 /NDF: 43279780102.0/54

All: 142.243 $\pm$ 0.000 χ^2 /NDF: 76993269302.0/125

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.768 $\pm$ 0.000 χ^2 /NDF: 2872866.1/24

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.760 $\pm$ 0.000 χ^2 /NDF: 3197713.1/29

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

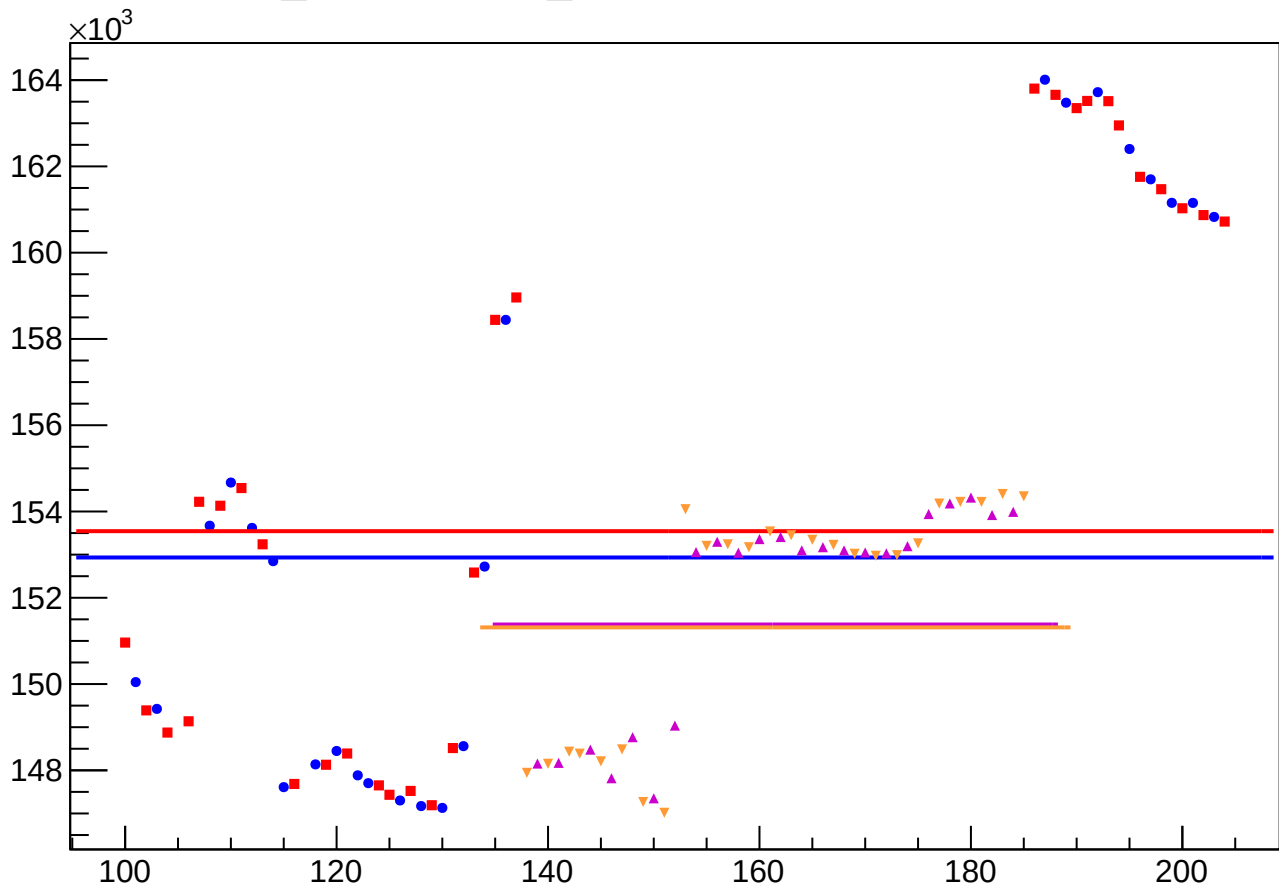
Right: 0.764 $\pm$ 0.000 χ^2 /NDF: 6071542.7/54

In: 0.791 $\pm$ 0.000 χ^2 /NDF:3377133.5/47

Out: 0.787 $\pm$ 0.000 χ^2 /NDF:3930589.1/54

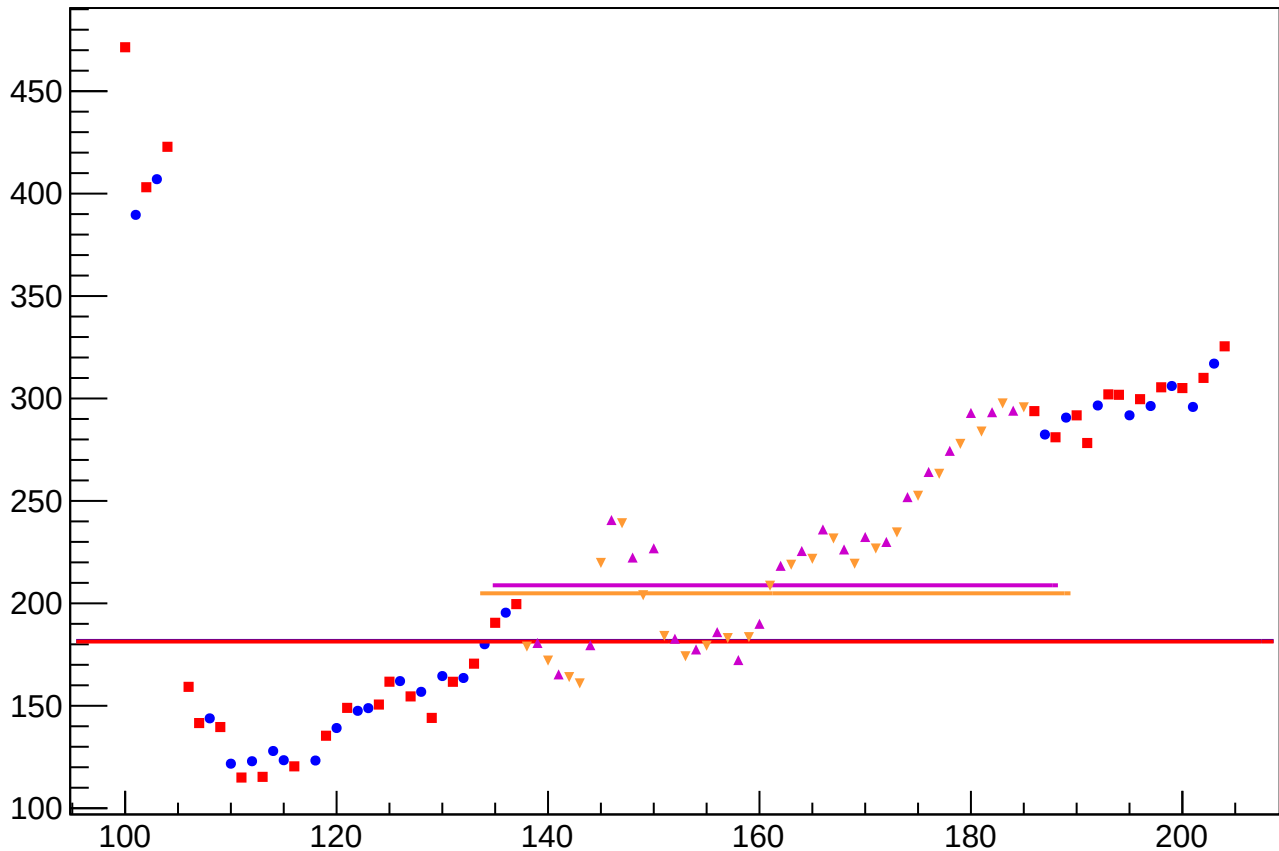
All: 0.788 $\pm$ 0.000 χ^2 /NDF: 7308313.6/102

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 152933.936 $\pm$ 0.057	χ^2 /NDF: 9834655979.1/24	Left: 151345.082 $\pm$ 0.035	χ^2 /NDF: 5518562148.3/24
Left Out: 151313.284 $\pm$ 0.049	χ^2 /NDF: 3153768134.8/24	Right: 153259.822 $\pm$ 0.039	χ^2 /NDF: 21065281173.4/24
Right Out: 153544.016 $\pm$ 0.053	χ^2 /NDF: 11168431825.2/29	In: 152080.110 $\pm$ 0.038	χ^2 /NDF: 12613533207.5/24
Left In: 151380.236 $\pm$ 0.051	χ^2 /NDF: 2363895785.3/22	Out: 152338.339 $\pm$ 0.036	χ^2 /NDF: 15286962596.9/24
		All: 152216.767 $\pm$ 0.026	χ^2 /NDF: 279250023.4/24

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 181.647 $\pm$ 0.040 χ^2 /NDF: 3269157.8/24

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF: 1056380.8/24

Right Out: 181.371 $\pm$ 0.037 χ^2 /NDF: 4033266.6/29

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

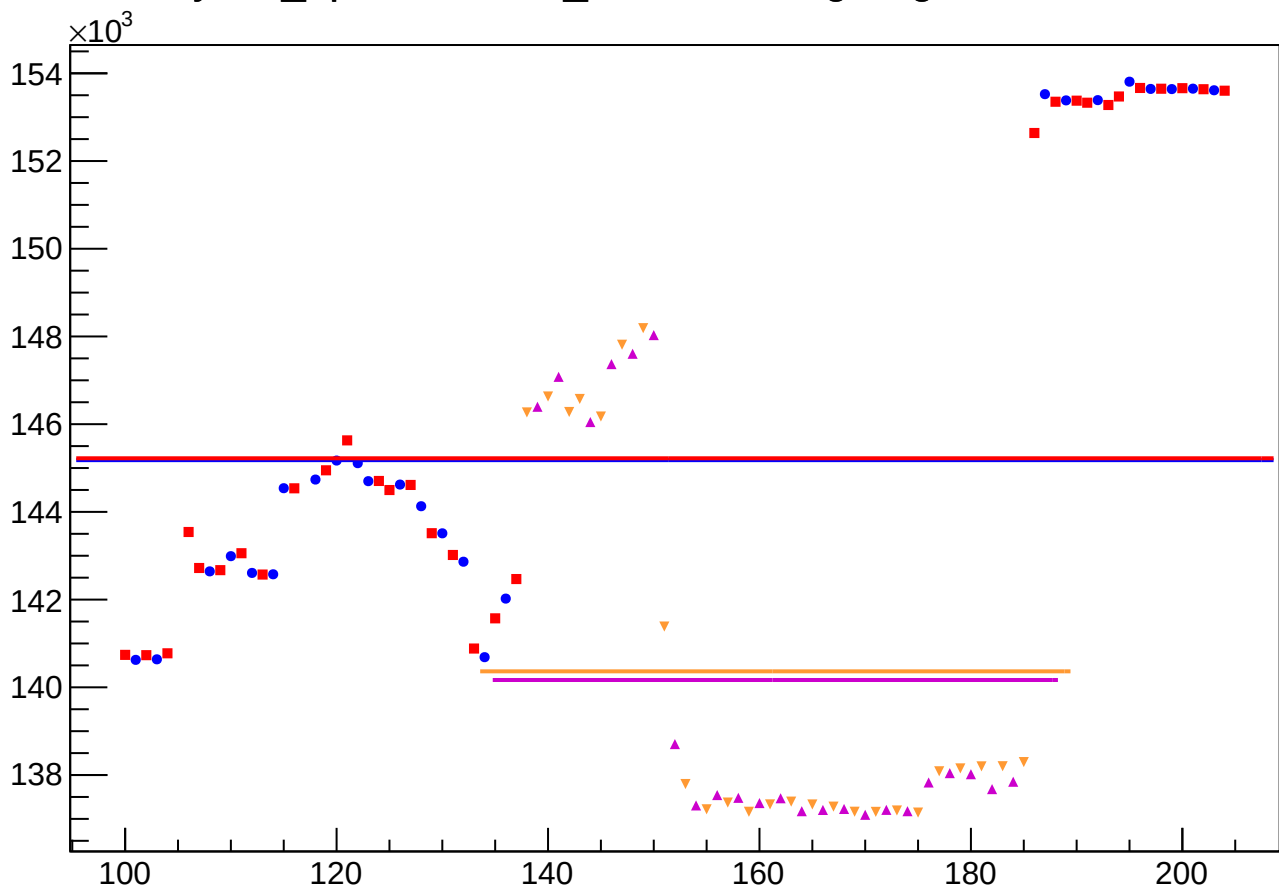
Right: 181.500 $\pm$ 0.027 χ^2 /NDF: 7302449.9/54

In: 196.576 $\pm$ 0.027 χ^2 /NDF: 4524810.7/47

Out: 194.088 $\pm$ 0.025 χ^2 /NDF: 5304302.4/54

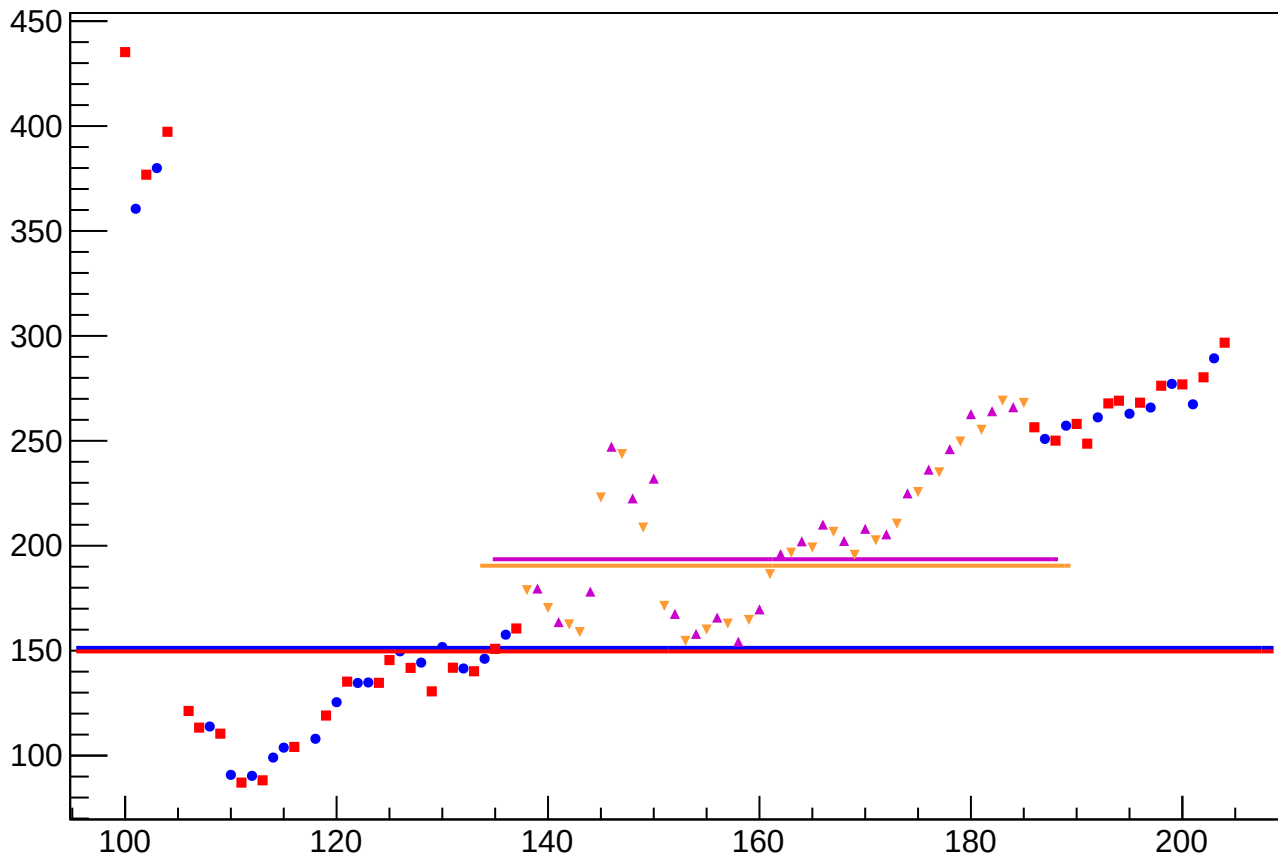
All: 195.259 $\pm$ 0.018 χ^2 /NDF: 9833662.9/102

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145179.995 $\pm$ 0.048	χ^2/NDF : 7093127685.5/24	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: 145202.845 $\pm$ 0.032	χ^2/NDF : 15882900533.7
Right Out: 145222.265 $\pm$ 0.044	χ^2/NDF : 8789352421.0/29	In: 142648.229 $\pm$ 0.034	χ^2/NDF : 20646311959.7/4
Left In: 140166.971 $\pm$ 0.047	χ^2/NDF : 8028464654.6/22	Out: 142849.381 $\pm$ 0.032	χ^2/NDF : 23370261038.8
		All: 142755.318 $\pm$ 0.023	χ^2/NDF : 440355175

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 151.330+/-0.034 χ^2/NDF : 3989454.6/24

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 149.634+/-0.031 χ^2/NDF : 4905897.1/29

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

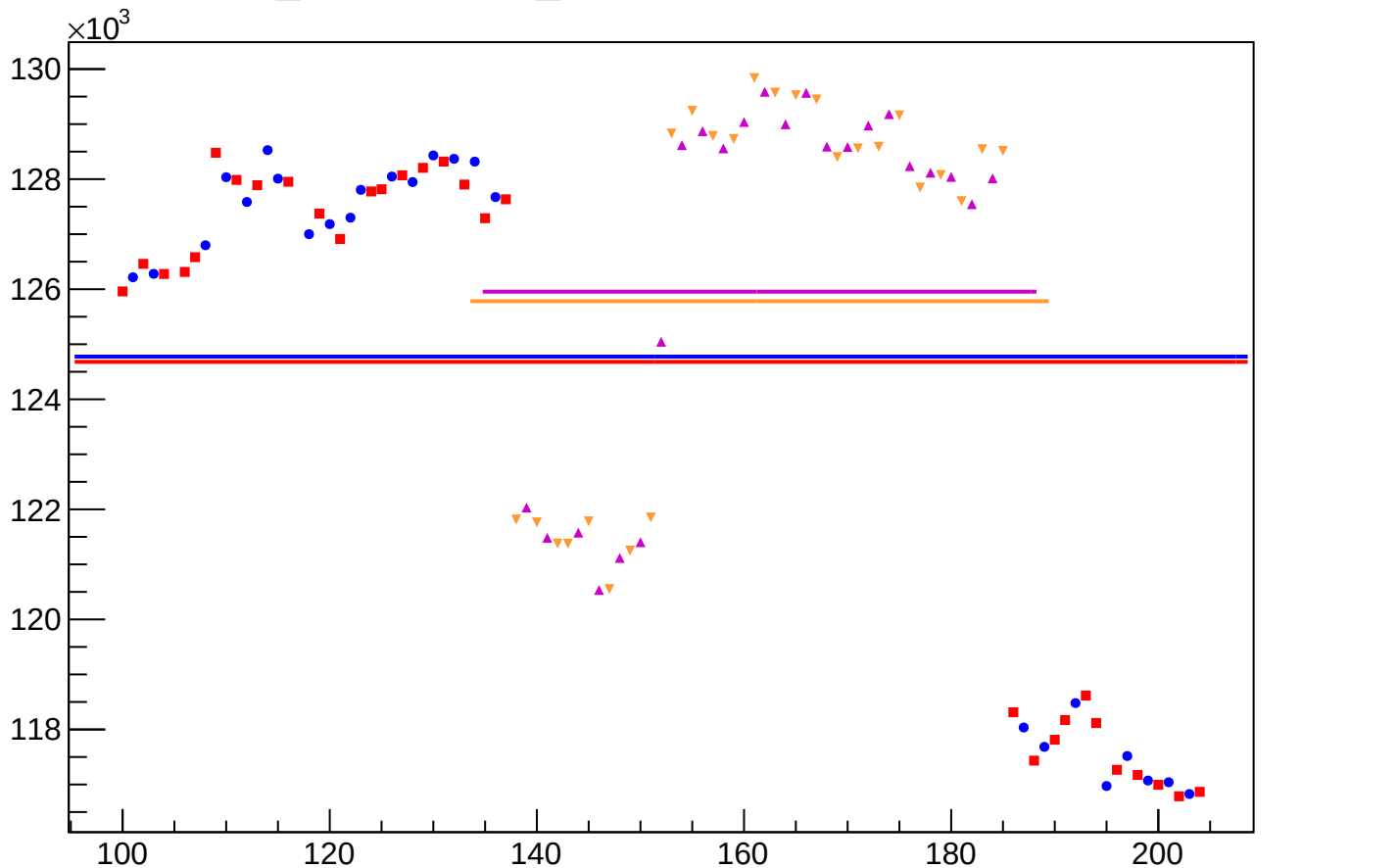
Right: 150.413+/-0.023 χ^2/NDF : 8896704.0/54

In: 172.657+/-0.024 χ^2/NDF : 5737201.6/47

Out: 169.589+/-0.022 χ^2/NDF : 6691151.1/54

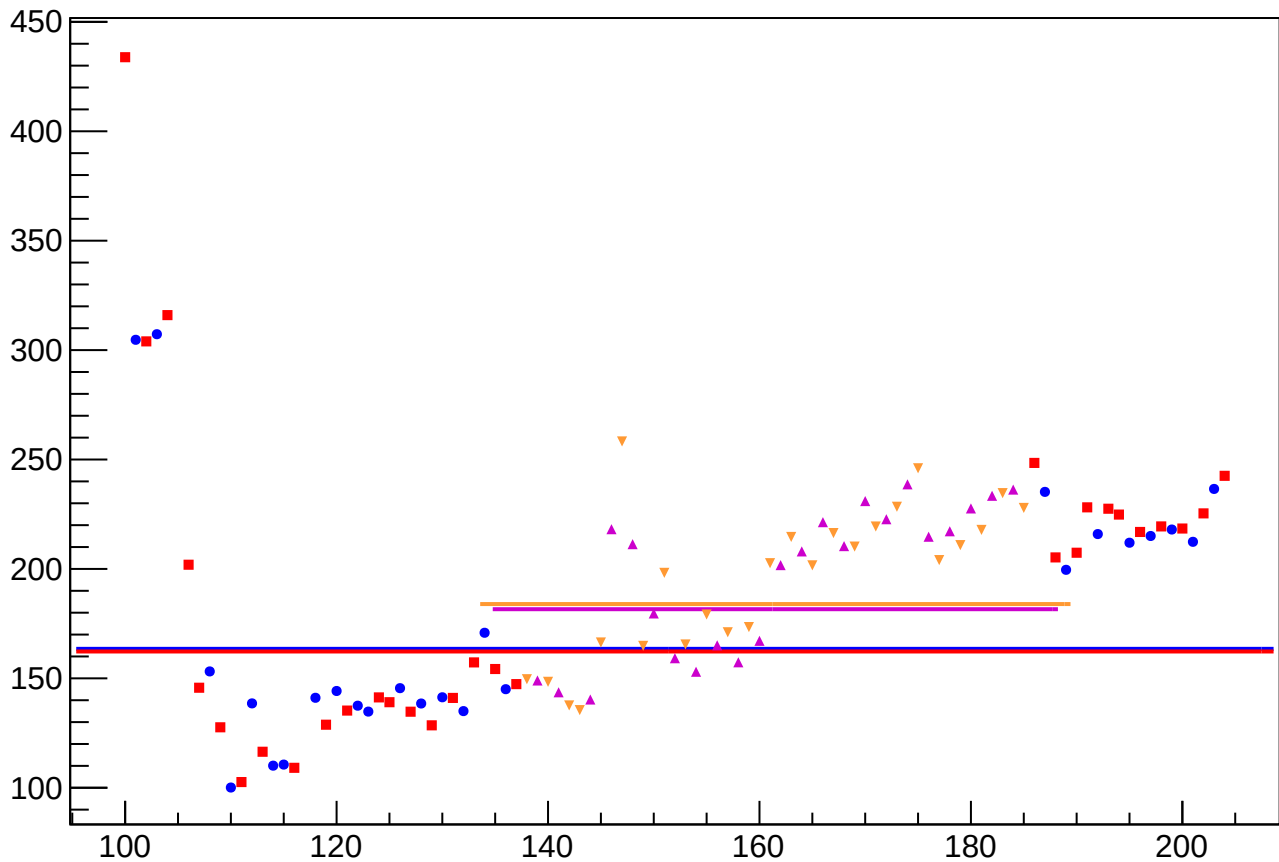
All: 171.023+/-0.016 χ^2/NDF : 12437164.4/100

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124775.319 $\pm$ 0.049	χ^2 /NDF: 9055574268.5/24	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/24
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 124724.130 $\pm$ 0.033	χ^2 /NDF: 19663175496.1/24
Right Out: 124680.000 $\pm$ 0.046	χ^2 /NDF: 10605587132.7/29	In: 125420.770 $\pm$ 0.033	χ^2 /NDF: 15174132916.2/24
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 125252.228 $\pm$ 0.032	χ^2 /NDF: 17637500612.6/24
		All: 125332.769 $\pm$ 0.023	χ^2 /NDF: 328251437.1/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 163.480 $\pm$ 0.035 χ^2 /NDF: 1771048.0/24

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 162.274 $\pm$ 0.032 χ^2 /NDF: 2427725.3/29

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

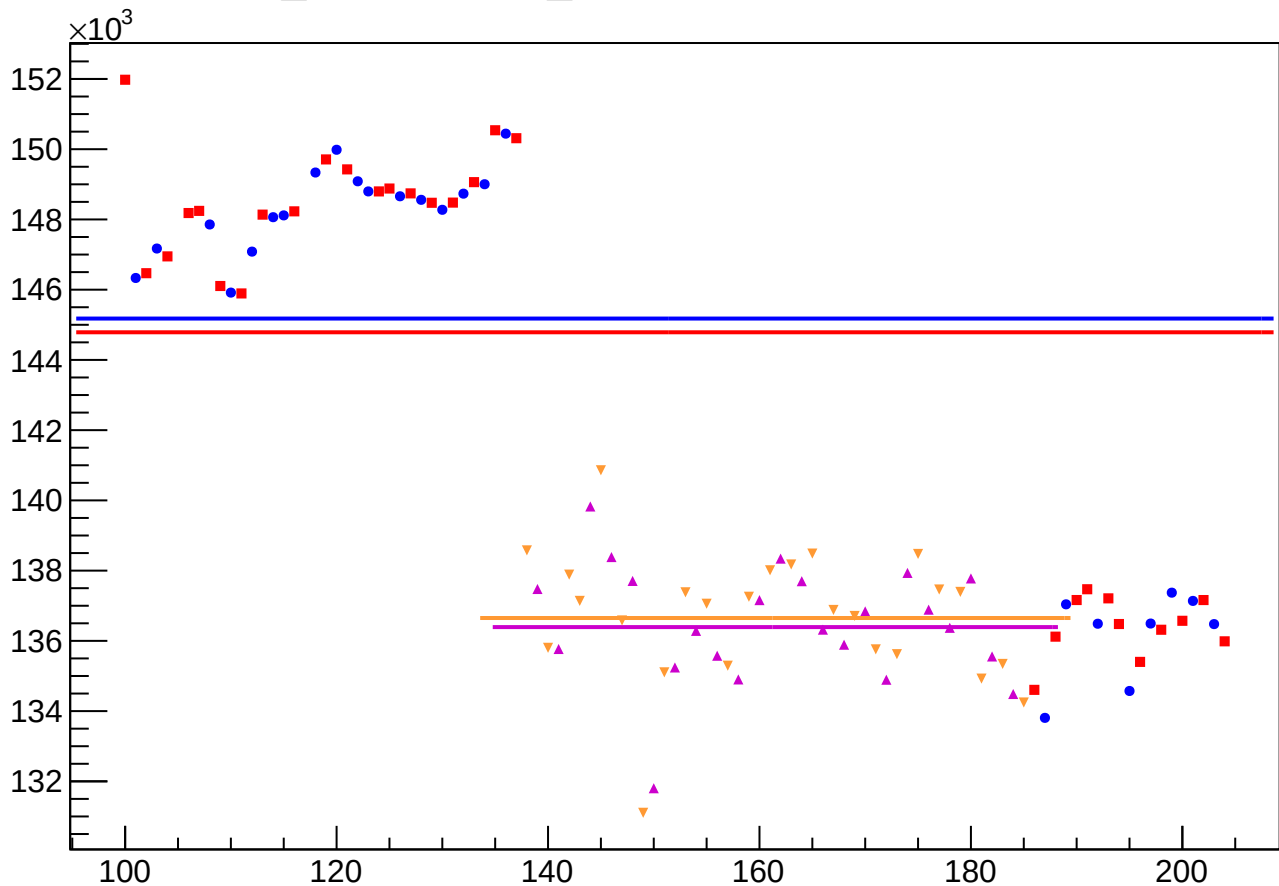
Right: 162.832 $\pm$ 0.024 χ^2 /NDF: 4199418.2/54

In: 173.386 $\pm$ 0.023 χ^2 /NDF: 3022736.4/47

Out: 173.520 $\pm$ 0.022 χ^2 /NDF: 3784337.2/54

All: 173.456 $\pm$ 0.016 χ^2 /NDF: 6807090.5/102

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 145177.717 $\pm$ 0.070

χ^2 /NDF: 6273153393.5/24

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: 144965.529 $\pm$ 0.047

χ^2 /NDF: 13807687320.4

Right Out: 144786.649 $\pm$ 0.064

χ^2 /NDF: 7517593913.2/29

In: 140525.282 $\pm$ 0.048

χ^2 /NDF: 15319434764.3/4

Out: 140741.791 $\pm$ 0.046

χ^2 /NDF: 16417122923.4

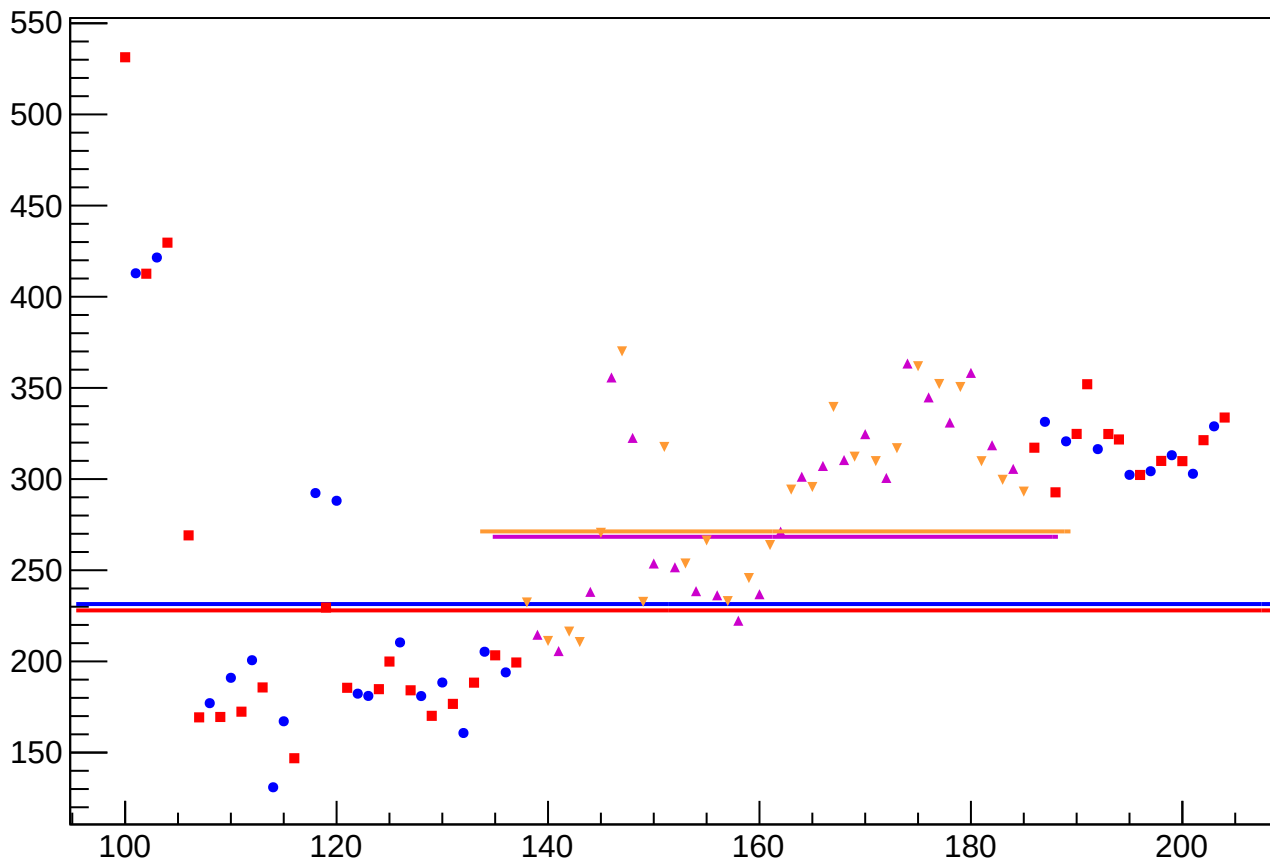
Left In: 136392.188 $\pm$ 0.066

χ^2 /NDF: 701986841.4/22

All: 140639.171 $\pm$ 0.033

χ^2 /NDF: 317472577

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 231.455+/-0.049 χ^2/NDF : 1965059.3/24

Left Out: 271.295+/-0.046 χ^2/NDF : 1064485.7/24

Right Out: 227.973+/-0.045 χ^2/NDF : 2378551.5/29

Left In: 268.344+/-0.047 χ^2/NDF : 1077364.0/22

Left: 269.850+/-0.033 χ^2/NDF : 2143892.9/47

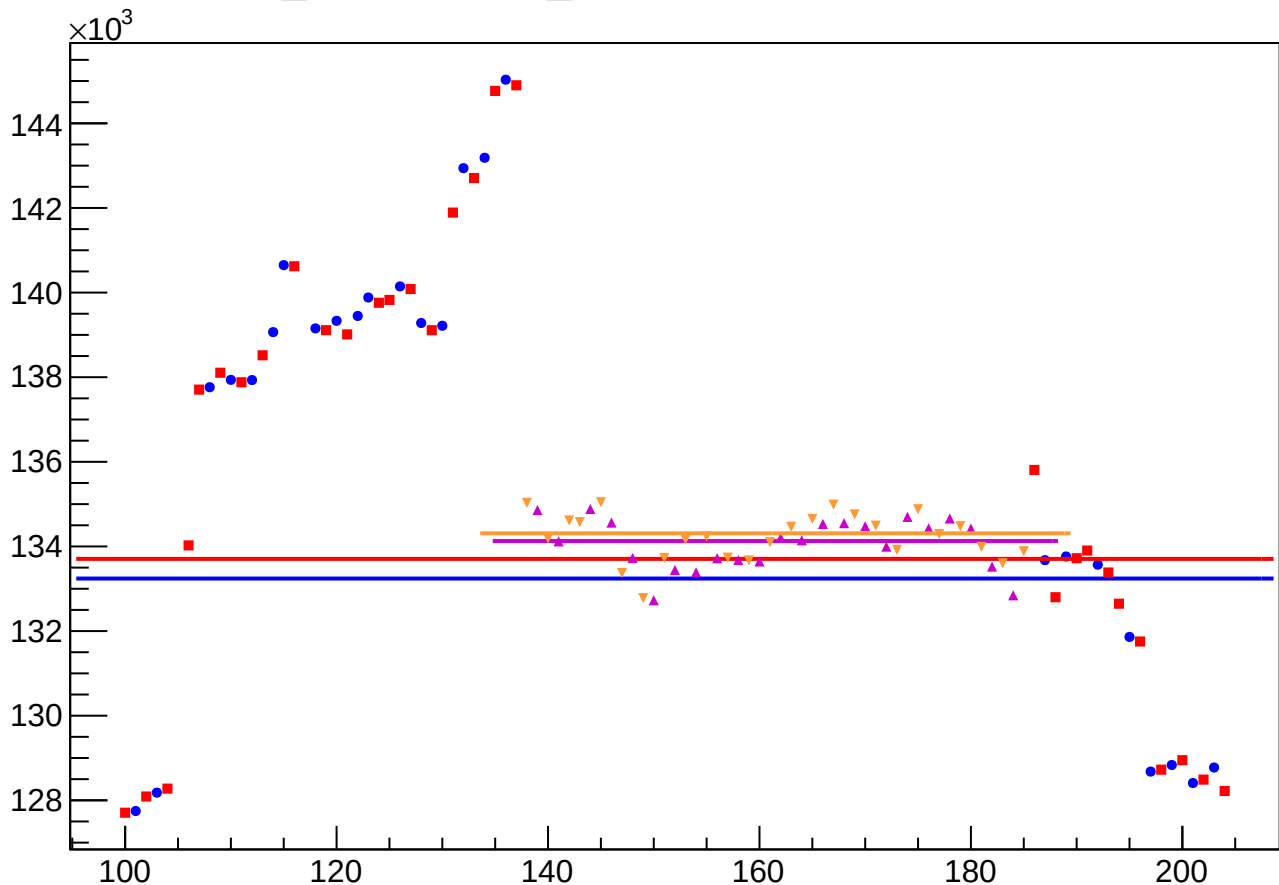
Right: 229.566+/-0.033 χ^2/NDF : 4346296.4/54

In: 250.989+/-0.034 χ^2/NDF : 3336641.7/47

Out: 249.512+/-0.032 χ^2/NDF : 3894949.8/54

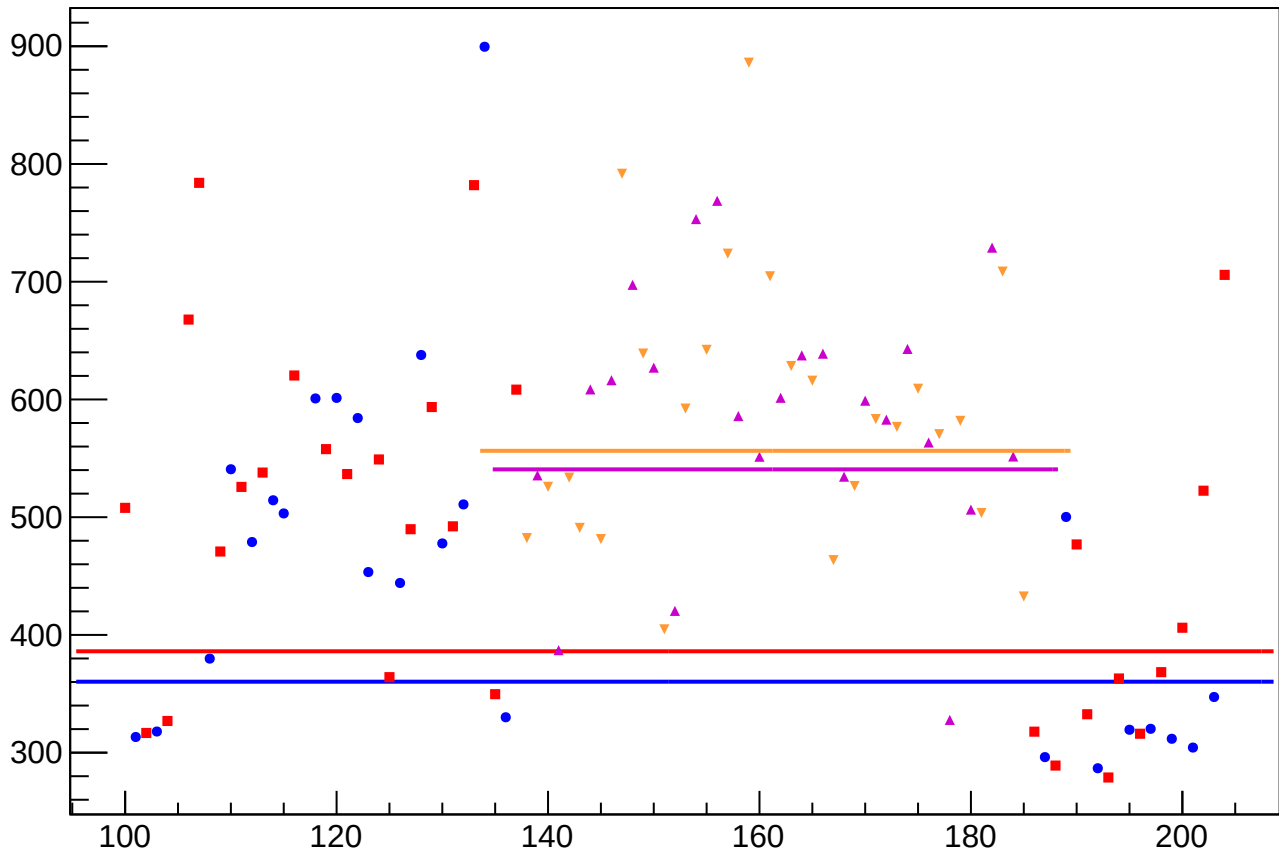
All: 250.212+/-0.023 χ^2/NDF : 7232588.6/102

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 133241.533+/-0.116	χ^2/NDF : 2383257592.6/24	Left: 134221.438+/-0.099	χ^2/NDF : 31894688.0/47
Left Out: 134310.250+/-0.139	χ^2/NDF : 15518632.9/24	Right: 133468.698+/-0.083	χ^2/NDF : 3914820468.4/
Right Out: 133706.246+/-0.119	χ^2/NDF : 1523723389.1/29	In: 133596.595+/-0.090	χ^2/NDF : 2422169598.0/47
Left In: 134128.172+/-0.142	χ^2/NDF : 15533736.2/22	Out: 133961.818+/-0.090	χ^2/NDF : 1550204398.3/5
		All: 133778.646+/-0.064	χ^2/NDF : 398060957

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 360.277 ± 0.082 χ^2/NDF : 1253751.8/24

Left Out: 556.381 ± 0.098 χ^2/NDF : 1002064.0/24

Right Out: 386.104 ± 0.084 χ^2/NDF : 1822935.9/29

Left In: 540.607 ± 0.100 χ^2/NDF : 1409015.2/22

Left: 548.687 ± 0.070 χ^2/NDF : 2423723.9/47

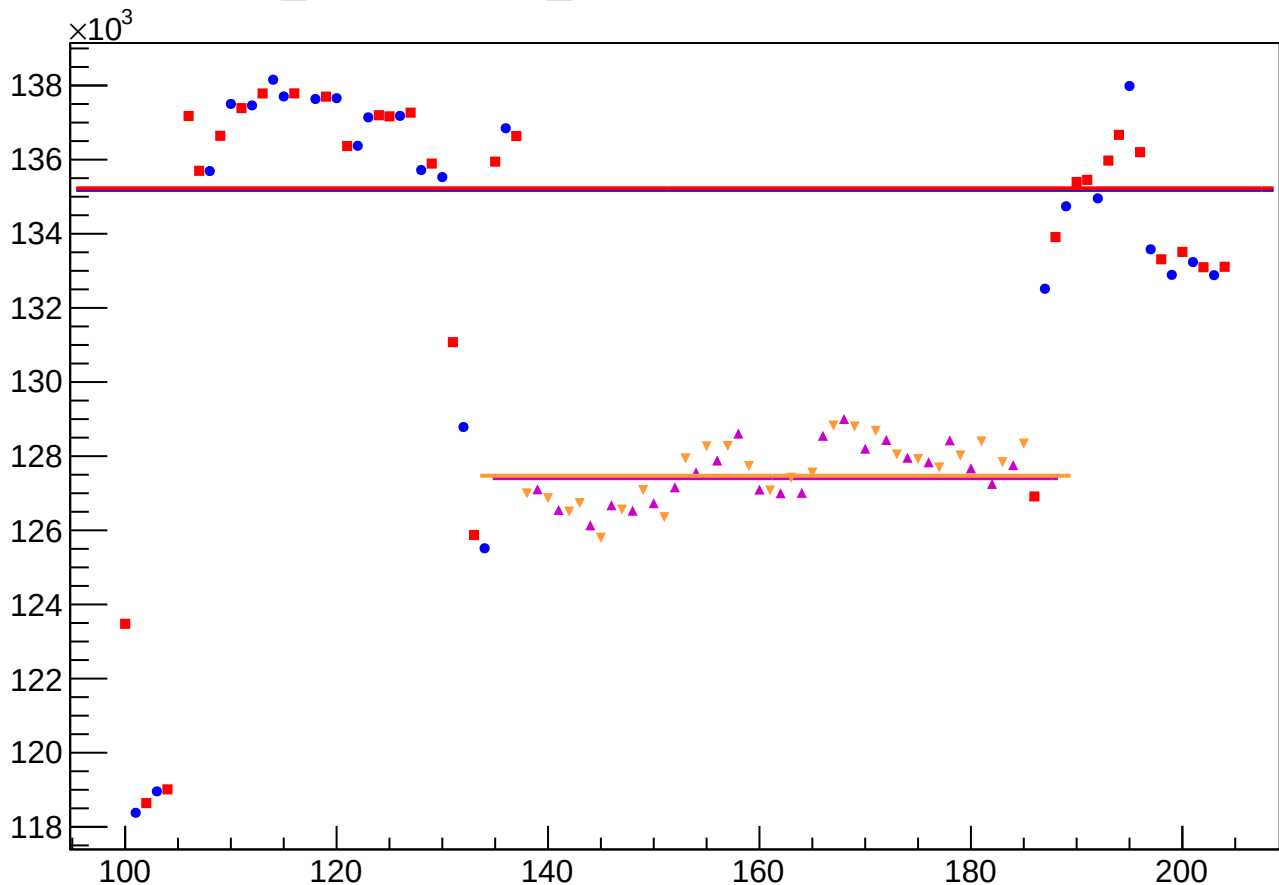
Right: 372.902 ± 0.059 χ^2/NDF : 3125115.4/54

In: 432.492 ± 0.064 χ^2/NDF : 4596889.7/47

Out: 458.154 ± 0.064 χ^2/NDF : 4567488.8/54

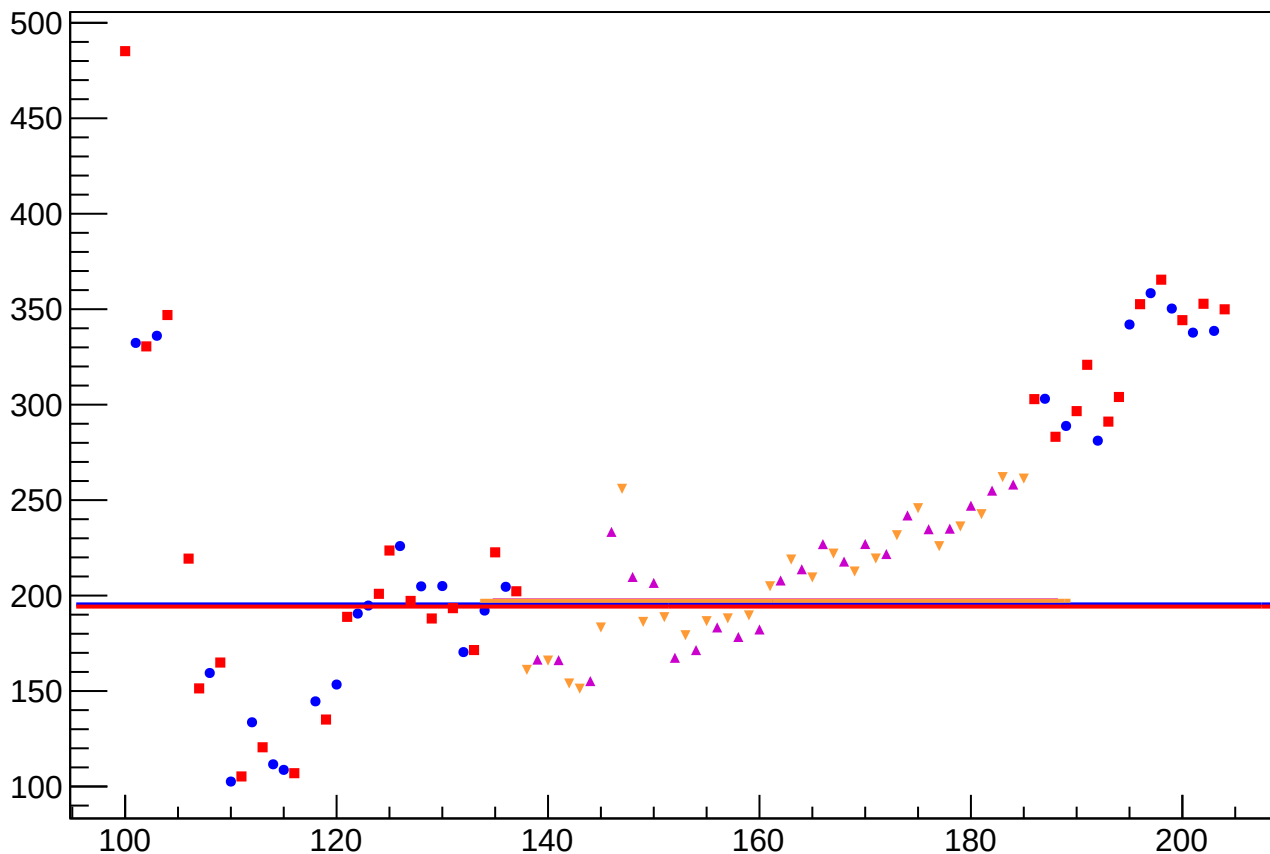
All: 445.283 ± 0.045 χ^2/NDF : 9245696.6/102

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135184.980 $\pm$ 0.061	χ^2 /NDF: 4769024122.5/24	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: 135206.931 $\pm$ 0.042	χ^2 /NDF: 9939026424.3/24
Right Out: 135225.833 $\pm$ 0.057	χ^2 /NDF: 5169763738.5/29	In: 130390.254 $\pm$ 0.038	χ^2 /NDF: 14959692933.1/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130606.006 $\pm$ 0.036	χ^2 /NDF: 16539303494.4/24
		All: 130503.374 $\pm$ 0.026	χ^2 /NDF: 315159231.1/24

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 195.376 $\pm$ 0.043 χ^2 /NDF: 3439639.6/24

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 194.229 $\pm$ 0.040 χ^2 /NDF: 4255544.6/29

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

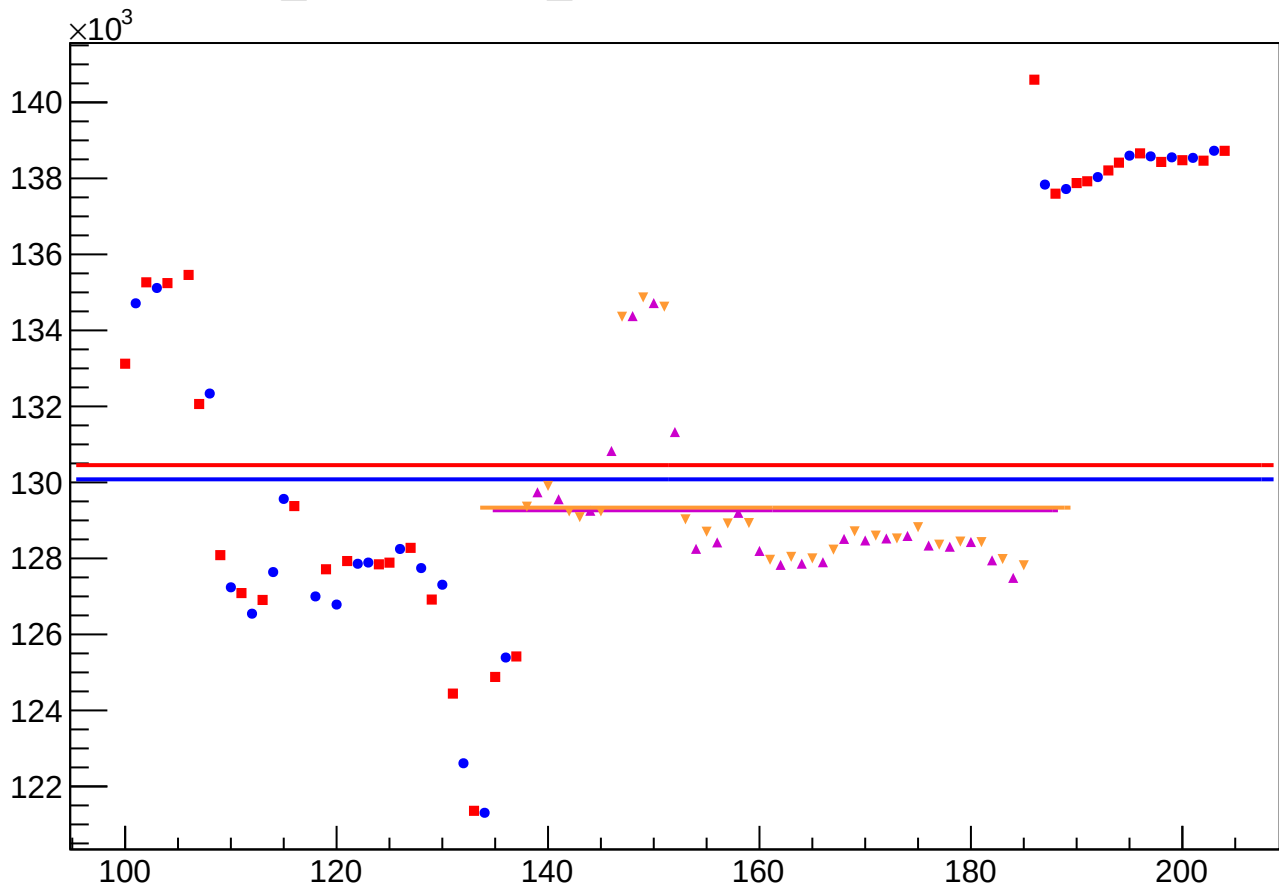
Right: 194.760 $\pm$ 0.029 χ^2 /NDF: 7695560.4/54

In: 196.667 $\pm$ 0.027 χ^2 /NDF: 4232656.8/47

Out: 196.052 $\pm$ 0.026 χ^2 /NDF: 5111017.1/54

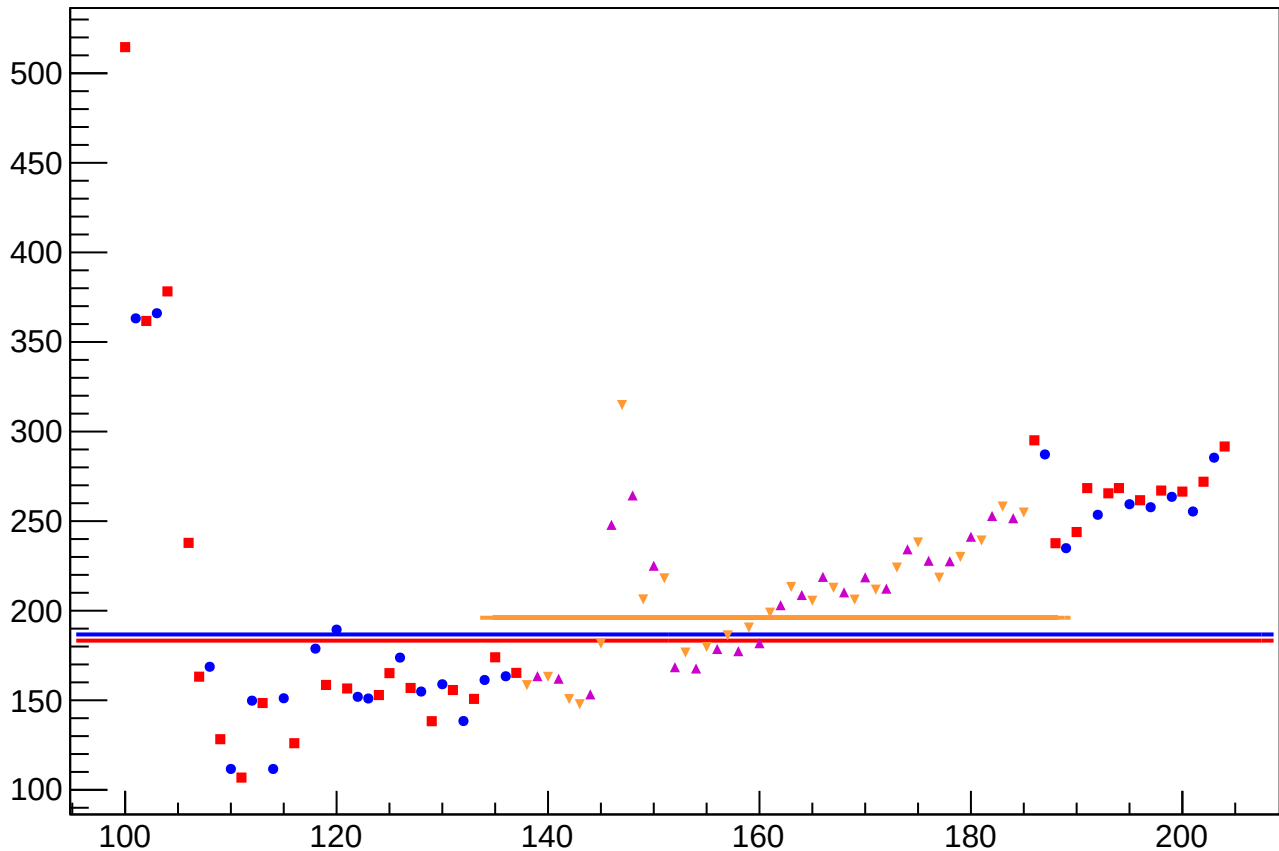
All: 196.345 $\pm$ 0.019 χ^2 /NDF: 9343948.9/102

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 130080.713 $\pm$ 0.057	χ^2 /NDF: 9386902154.3/24	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/24
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 130283.101 $\pm$ 0.039	χ^2 /NDF: 20250867764.1/24
Right Out: 130454.296 $\pm$ 0.052	χ^2 /NDF: 10840665946.6/29	In: 129606.076 $\pm$ 0.037	χ^2 /NDF: 10719695666.8/24
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129831.414 $\pm$ 0.035	χ^2 /NDF: 12545378815.2/24
		All: 129724.726 $\pm$ 0.025	χ^2 /NDF: 232848434.1/24

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 186.741 $\pm$ 0.040 χ^2 /NDF: 2141096.2/24

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 183.298 $\pm$ 0.037 χ^2 /NDF: 2953472.0/29

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

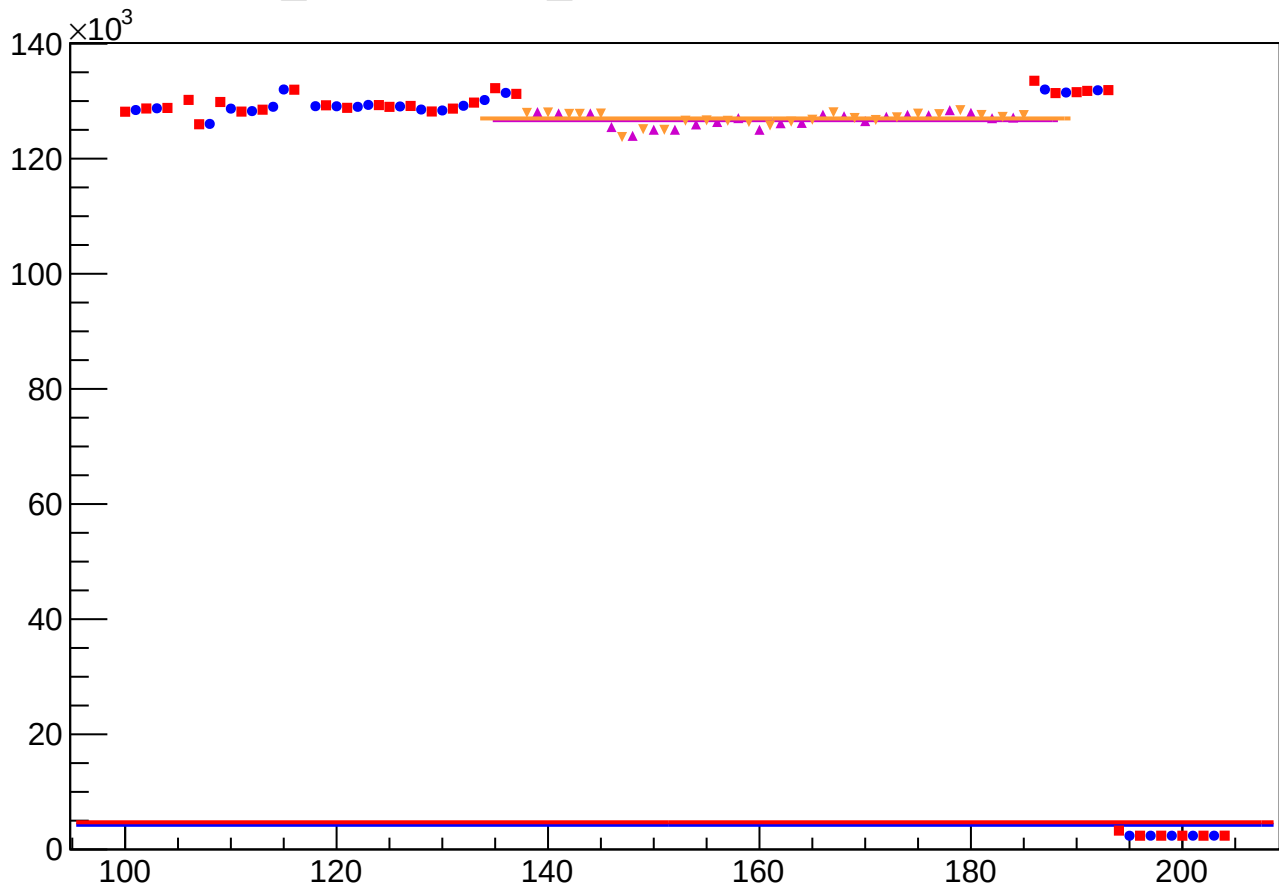
Right: 184.876 $\pm$ 0.027 χ^2 /NDF: 5098526.3/54

In: 192.250 $\pm$ 0.026 χ^2 /NDF: 3071222.5/47

Out: 190.416 $\pm$ 0.025 χ^2 /NDF: 3995459.8/54

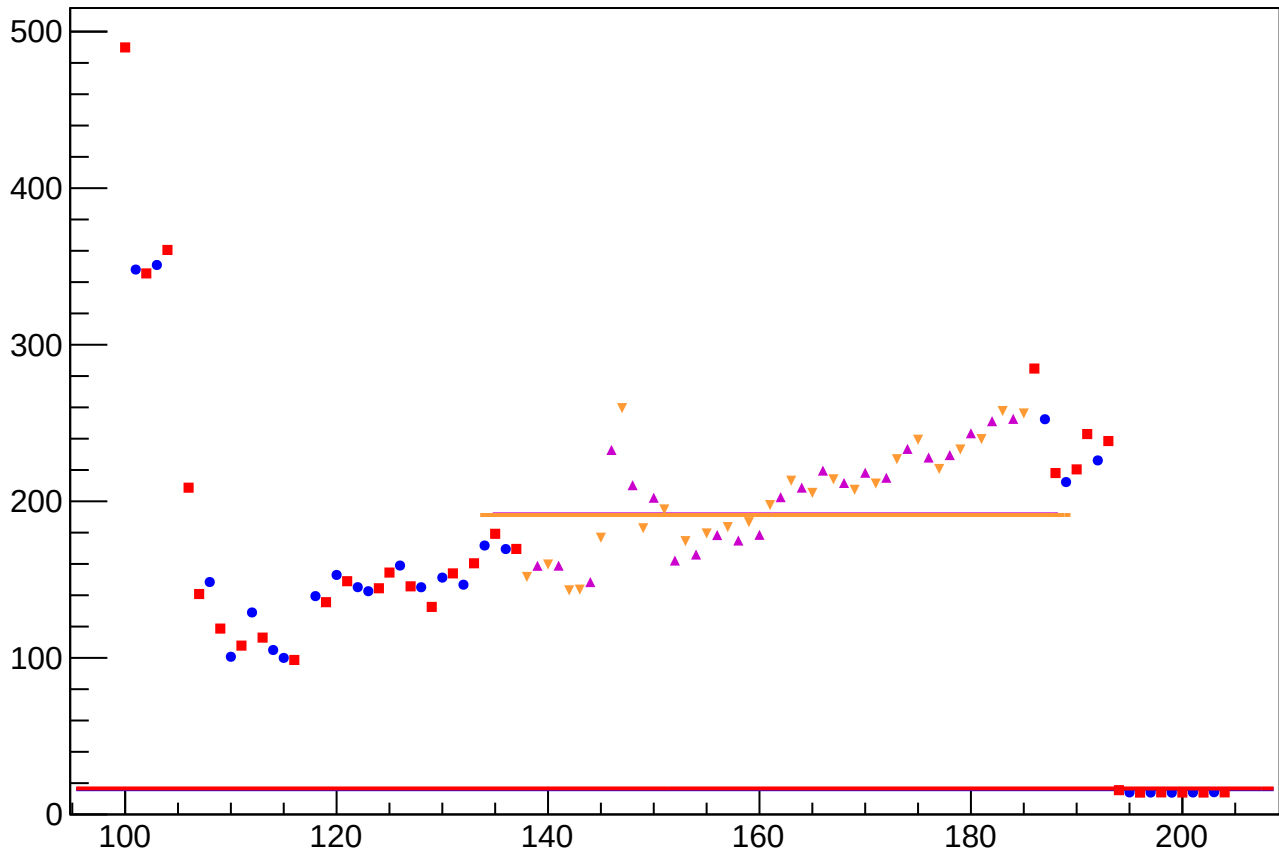
All: 191.284 $\pm$ 0.018 χ^2 /NDF: 7069301.5/102

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 4283.111 $\pm$ 0.007	χ^2/NDF : 4858004343011.5/24	Left: 126836.943 $\pm$ 0.033	χ^2/NDF : 1211882944.2/24
Left Out: 126981.724 $\pm$ 0.046	χ^2/NDF : 530573115.8/24	Right: 4501.574 $\pm$ 0.005	χ^2/NDF : 10637716781840
Right Out: 4721.278 $\pm$ 0.007	χ^2/NDF : 5777748228100.8/29	In: 6925.919 $\pm$ 0.007	χ^2/NDF : 11496359182567.1
Left In: 126682.659 $\pm$ 0.047	χ^2/NDF : 660415880.0/22	Out: 7545.956 $\pm$ 0.007	χ^2/NDF : 12824656422760.
		All: 7235.299 $\pm$ 0.005	χ^2/NDF : 24325038706

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 16.133+/-0.005 χ^2/NDF : 13227269.3/24

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 16.598+/-0.005 χ^2/NDF : 15494056.7/29

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

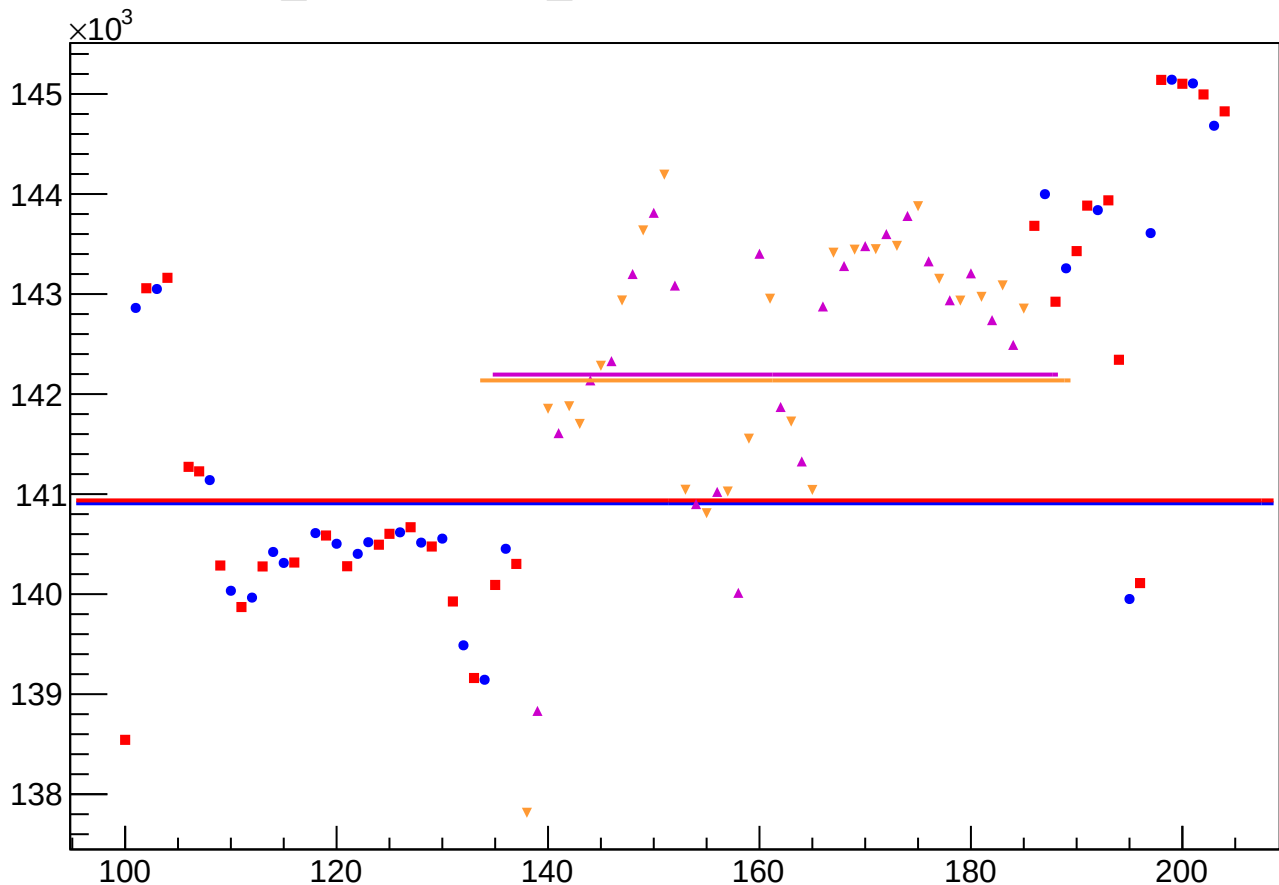
Right: 16.365+/-0.003 χ^2/NDF : 28725755.0/54

In: 19.924+/-0.005 χ^2/NDF : 41399436.9/47

Out: 20.634+/-0.005 χ^2/NDF : 45249622.0/54

All: 20.278+/-0.003 χ^2/NDF : 86659617.1/102

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140908.318 $\pm$ 0.059 χ^2 /NDF: 599972747.6/24

Left Out: 142136.579 $\pm$ 0.052 χ^2 /NDF: 815573343.0/24

Right Out: 140937.000 $\pm$ 0.054 χ^2 /NDF: 701483875.1/29

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

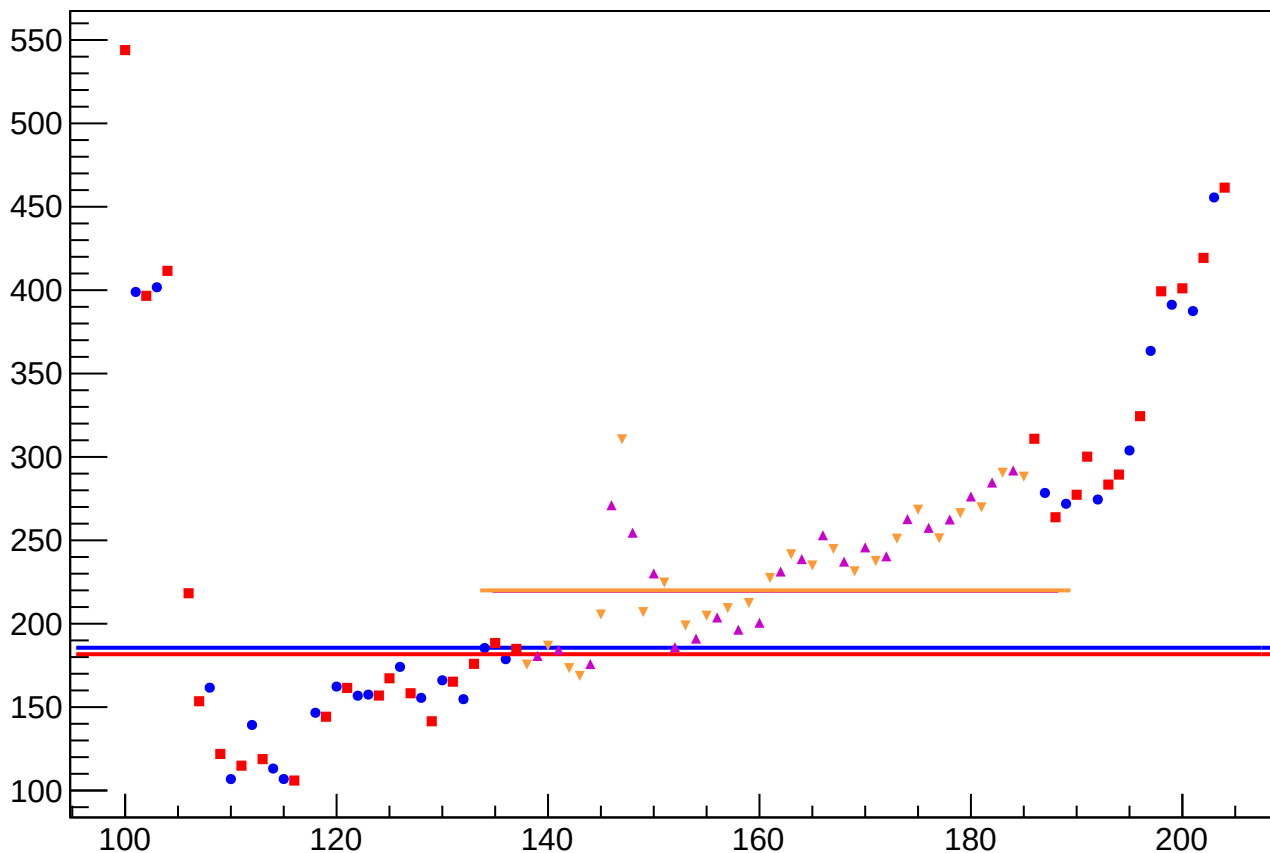
Right: 140923.908 $\pm$ 0.040 χ^2 /NDF: 1301586238.8/4

In: 141607.258 $\pm$ 0.040 χ^2 /NDF: 1504683633.1/4

Out: 141553.720 $\pm$ 0.038 χ^2 /NDF: 1772425938.6/5

All: 141578.979 $\pm$ 0.027 χ^2 /NDF: 327807027.1/1

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 185.598 $\pm$ 0.042 χ^2 /NDF: 3924158.2/24

Left Out: 219.969 $\pm$ 0.037 χ^2 /NDF: 866616.3/24

Right Out: 181.716 $\pm$ 0.038 χ^2 /NDF: 4913338.6/29

Left In: 219.685 $\pm$ 0.038 χ^2 /NDF: 812745.1/22

Left: 219.831 $\pm$ 0.027 χ^2 /NDF: 1679390.1/47

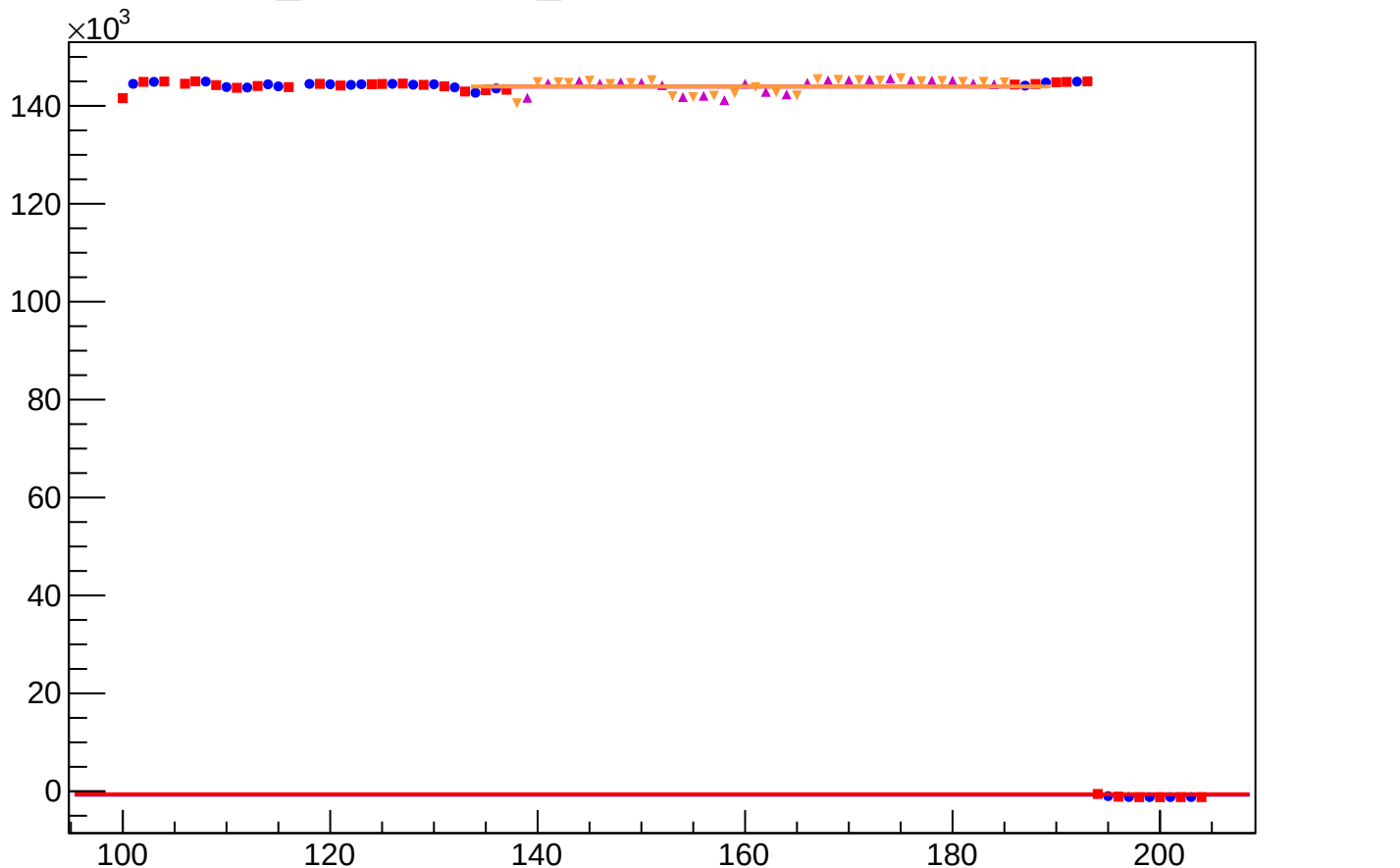
Right: 183.488 $\pm$ 0.028 χ^2 /NDF: 8842247.1/54

In: 204.114 $\pm$ 0.028 χ^2 /NDF: 5102786.4/47

Out: 201.382 $\pm$ 0.027 χ^2 /NDF: 6299333.2/54

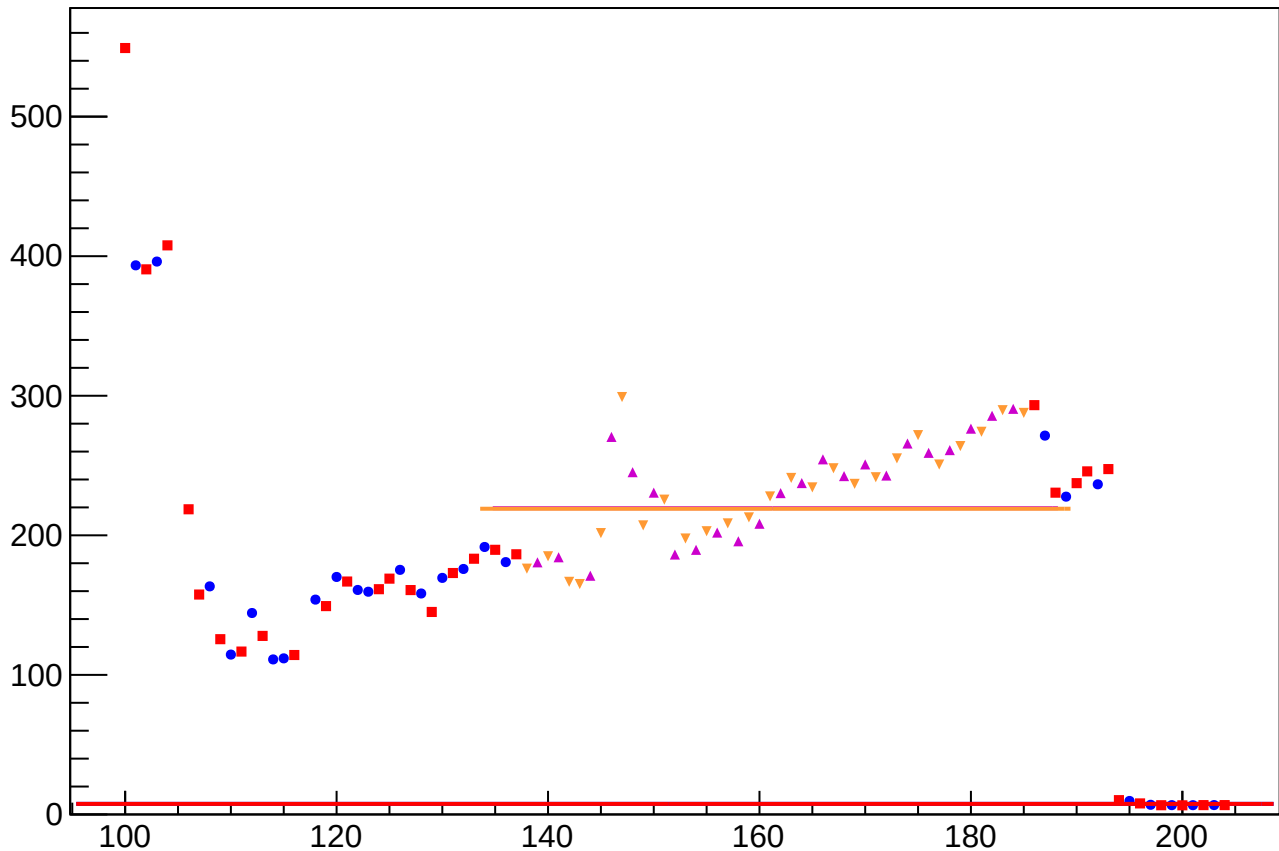
All: 202.671 $\pm$ 0.019 χ^2 /NDF: 11407122.1/100

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -690.572 ± 0.004 $\chi^2/\text{NDF}: 5288456100552.5/24$ Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/24$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$ Right: -648.908 ± 0.003 $\chi^2/\text{NDF}: 11679979432667$
 Right Out: -608.560 ± 0.004 $\chi^2/\text{NDF}: 6391255585736.2/29$ In: -56.662 ± 0.004 $\chi^2/\text{NDF}: 12473283144924.6/4$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$ Out: 45.737 ± 0.004 $\chi^2/\text{NDF}: 14045533713415.1/5$
 All: -4.637 ± 0.003 $\chi^2/\text{NDF}: 2651923613817$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.593 ± 0.003 $\chi^2/\text{NDF}: 14872608.6/24$

Left Out: 219.050 ± 0.037 $\chi^2/\text{NDF}: 934417.6/24$

Right Out: 7.566 ± 0.002 $\chi^2/\text{NDF}: 17421256.4/29$

Left In: 219.426 ± 0.038 $\chi^2/\text{NDF}: 850089.5/22$

Left: 219.232 ± 0.026 $\chi^2/\text{NDF}: 1784557.4/47$

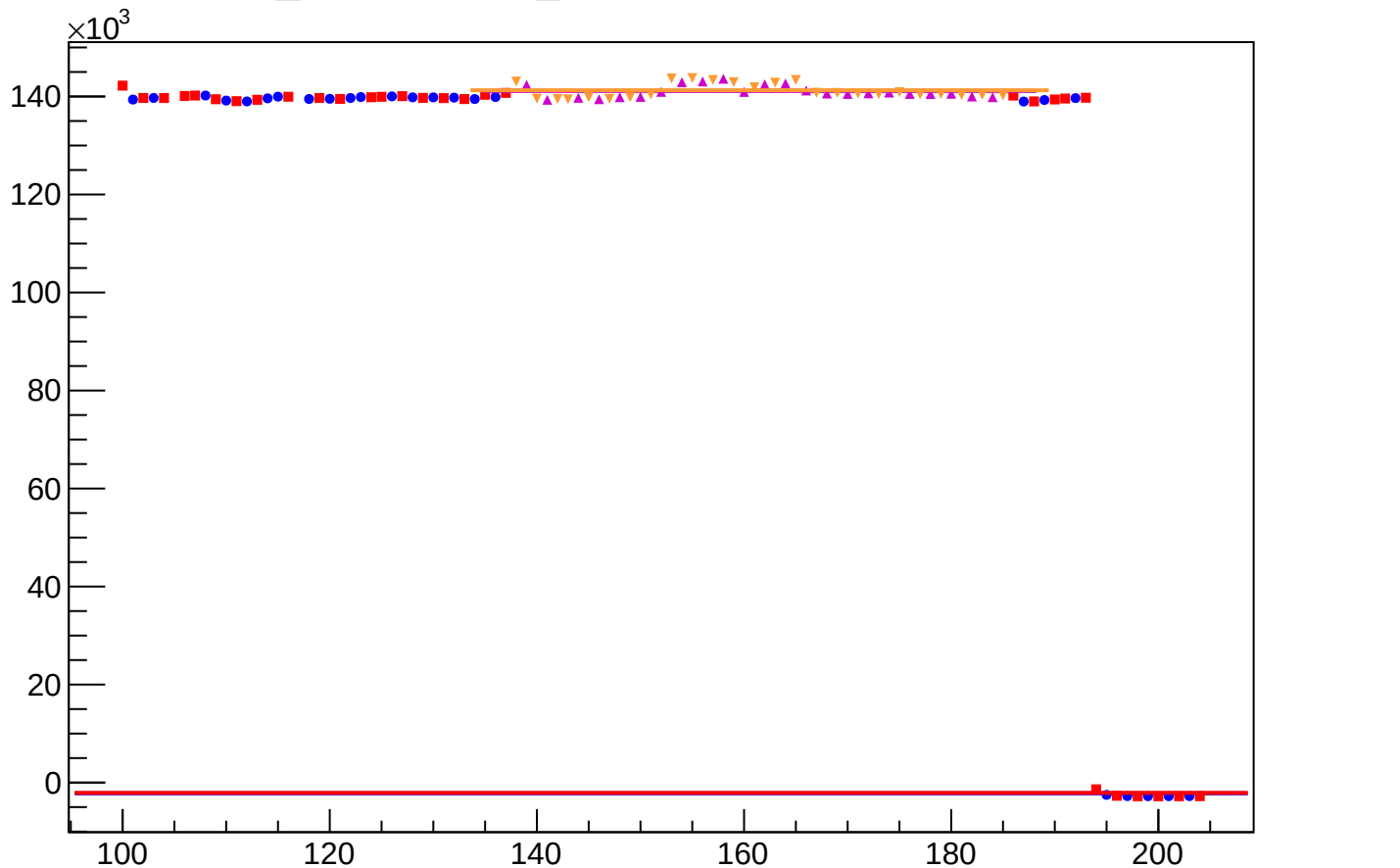
Right: 7.579 ± 0.002 $\chi^2/\text{NDF}: 32293924.8/54$

In: 8.522 ± 0.003 $\chi^2/\text{NDF}: 46545911.9/47$

Out: 8.523 ± 0.002 $\chi^2/\text{NDF}: 51115686.0/54$

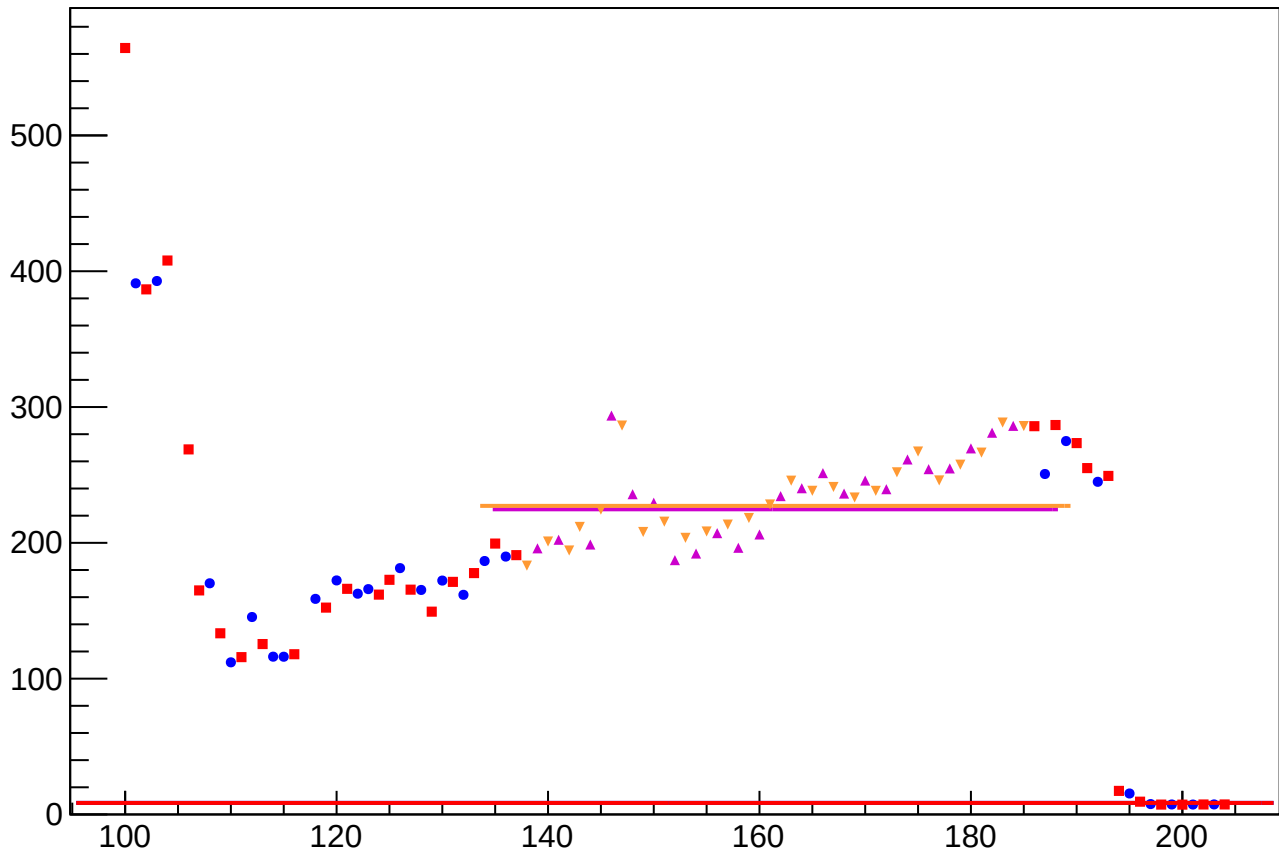
All: 8.522 ± 0.002 $\chi^2/\text{NDF}: 97661598.1/102$

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2187.364 $\pm$ 0.004	χ^2 /NDF: 4856441980473.6/24	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/24
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: -2145.443 $\pm$ 0.003	χ^2 /NDF: 1063648713531.1/24
Right Out: -2105.402 $\pm$ 0.004	χ^2 /NDF: 5779837230292.1/29	In: -1406.368 $\pm$ 0.004	χ^2 /NDF: 11629974315499.9/29
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1324.892 $\pm$ 0.004	χ^2 /NDF: 12870518851591.1/22
		All: -1364.696 $\pm$ 0.003	χ^2 /NDF: 2450069975.1/22

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.533 $\pm$ 0.003 χ^2 /NDF: 15011251.5/24

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF:484955.3/24

Right Out: 8.481 $\pm$ 0.003 χ^2 /NDF: 17447939.3/29

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

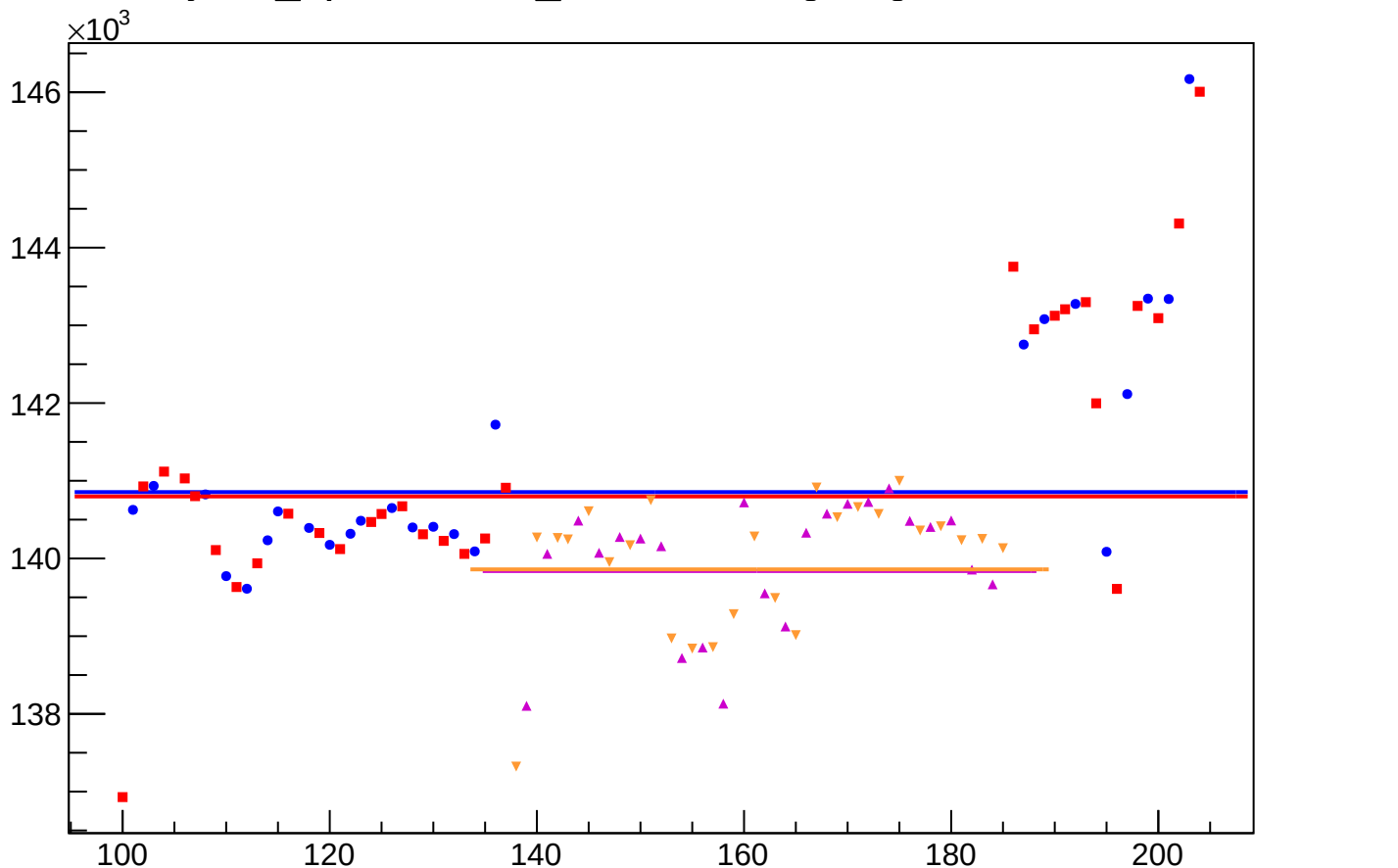
Right: 8.506 $\pm$ 0.002 χ^2 /NDF: 32459353.7/54

In: 9.711 $\pm$ 0.003 χ^2 /NDF:46407318.7/47

Out: 9.672 $\pm$ 0.003 χ^2 /NDF:50938978.6/54

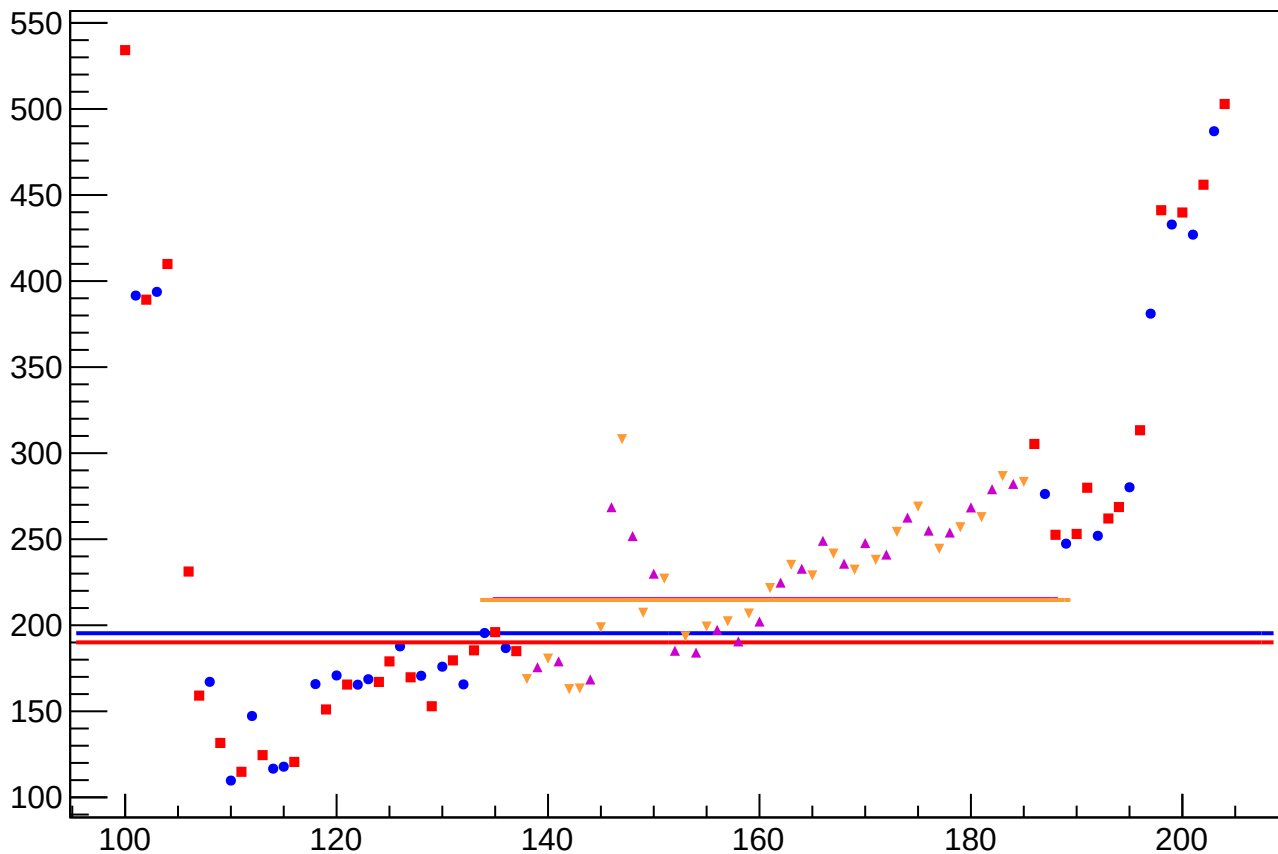
All: 9.691 $\pm$ 0.002 χ^2 /NDF: 97346389.5/102

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140854.061 $\pm$ 0.061	χ^2/NDF : 403440842.1/24	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: 140823.592 $\pm$ 0.041	χ^2/NDF : 908263457.8/5
Right Out: 140798.428 $\pm$ 0.056	χ^2/NDF : 504374298.0/29	In: 140269.623 $\pm$ 0.040	χ^2/NDF : 839956949.0/47
Left In: 139838.724 $\pm$ 0.053	χ^2/NDF : 279573689.3/22	Out: 140287.169 $\pm$ 0.038	χ^2/NDF : 988187521.7/54
		All: 140278.926 $\pm$ 0.027	χ^2/NDF : 182824618

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 195.369 $\pm$ 0.043 χ^2 /NDF: 3619829.7/24

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 190.058 $\pm$ 0.040 χ^2 /NDF: 4519884.2/29

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

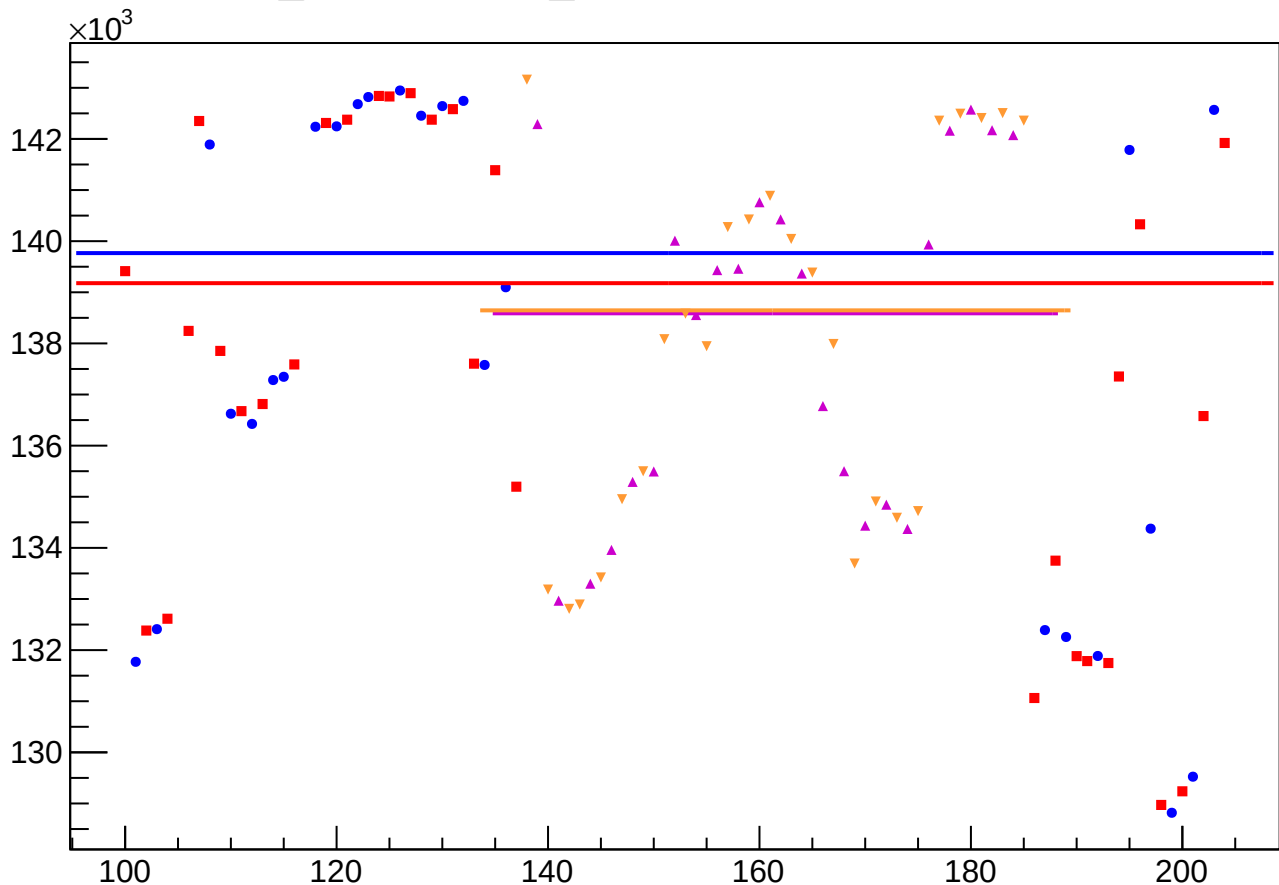
Right: 192.460 $\pm$ 0.029 χ^2 /NDF: 8147885.6/54

In: 206.796 $\pm$ 0.028 χ^2 /NDF: 4621775.9/47

Out: 203.475 $\pm$ 0.027 χ^2 /NDF: 5712679.2/54

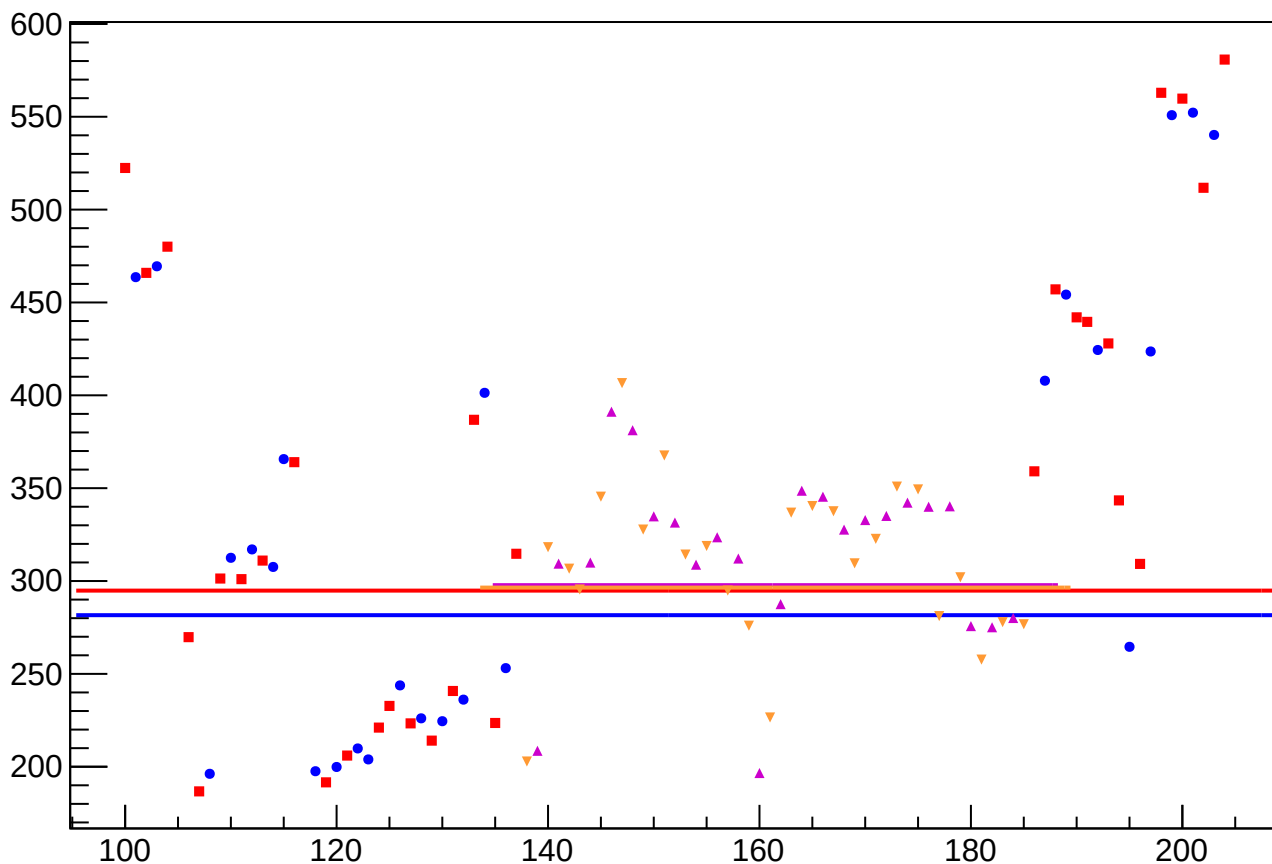
All: 205.035 $\pm$ 0.019 χ^2 /NDF: 10341746.4/100

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139766.678 $\pm$ 0.087	χ^2/NDF : 2187866874.2/24	Left: 138618.660 $\pm$ 0.051	χ^2/NDF : 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2/NDF : 2548637600.4/24	Right: 139463.608 $\pm$ 0.061	χ^2/NDF : 4559514772.9/
Right Out: 139178.344 $\pm$ 0.085	χ^2/NDF : 2348291266.9/29	In: 139078.123 $\pm$ 0.056	χ^2/NDF : 4242178689.8/4
Left In: 138588.711 $\pm$ 0.074	χ^2/NDF : 1948065195.1/22	Out: 138865.156 $\pm$ 0.054	χ^2/NDF : 4920115452.3/5
		All: 138967.877 $\pm$ 0.039	χ^2/NDF : 916969660

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 281.609 $\pm$ 0.062 χ^2 /NDF: 2777944.3/24

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF:893579.7/24

Right Out: 294.840 $\pm$ 0.060 χ^2 /NDF: 3251410.3/29

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

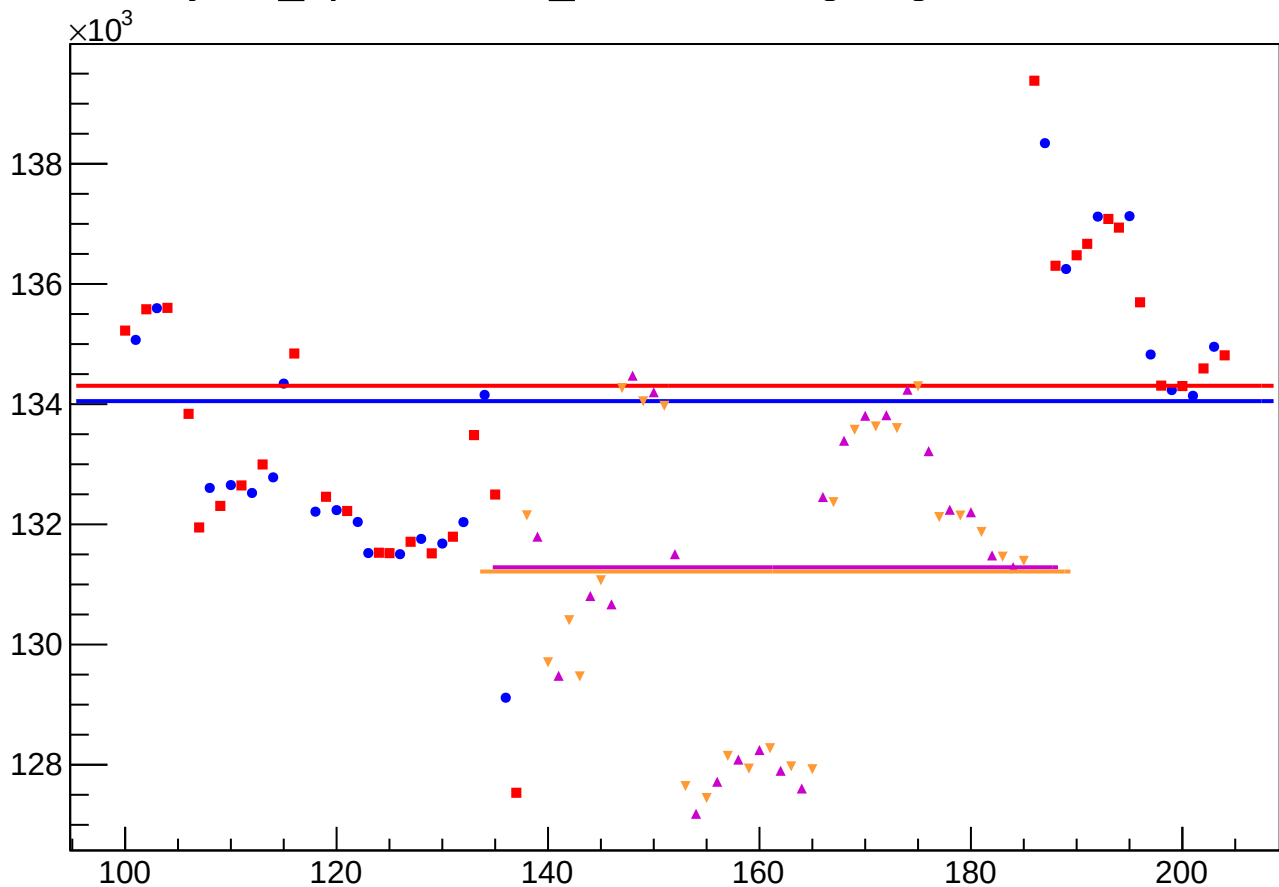
Right: 288.425 $\pm$ 0.043 χ^2 /NDF: 6052978.7/54

In: 291.058 $\pm$ 0.040 χ^2 /NDF:3879450.8/47

Out: 295.796 $\pm$ 0.038 χ^2 /NDF:4145422.6/54

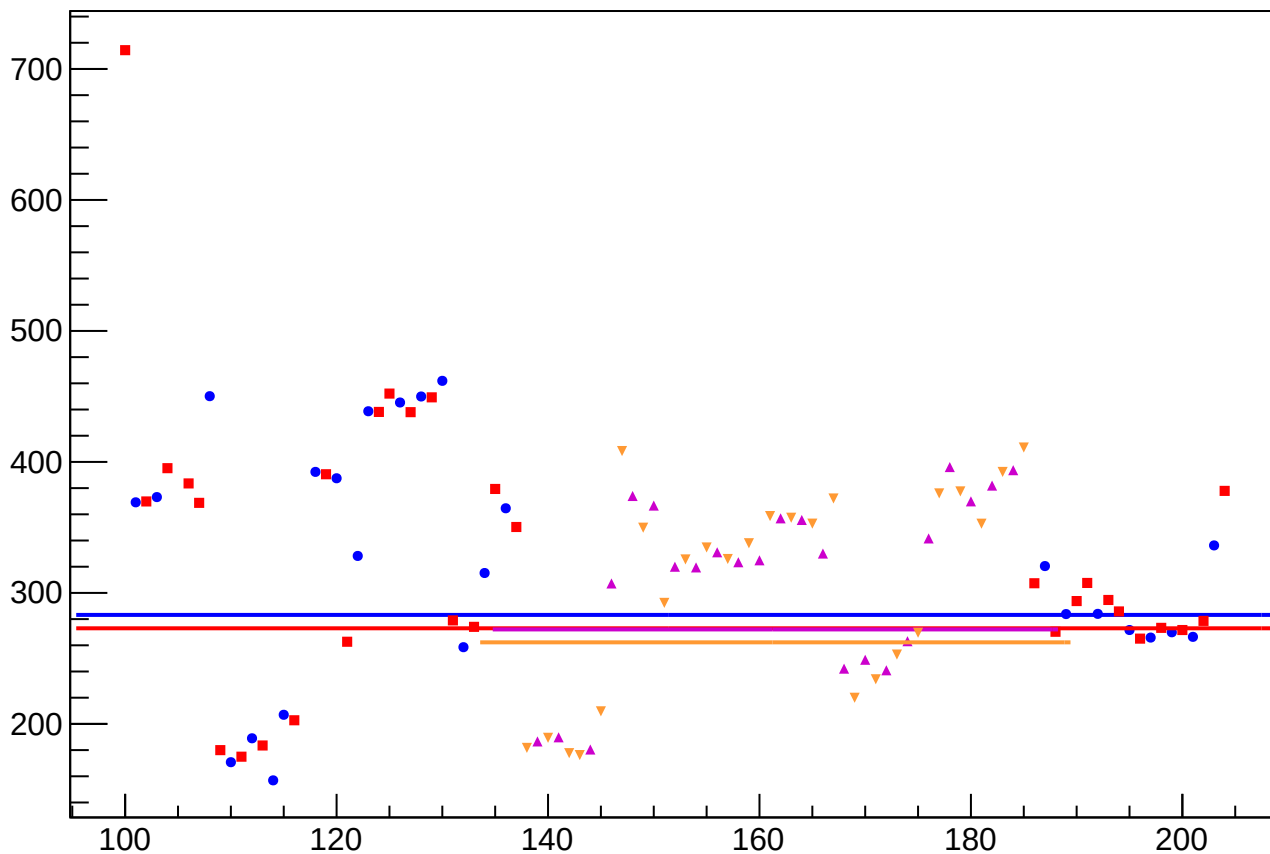
All: 293.511 $\pm$ 0.028 χ^2 /NDF: 8032201.5/102

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 134050.904 $\pm$ 0.085 χ^2 /NDF: 596593874.1/24
 Left Out: 131214.985 $\pm$ 0.064 χ^2 /NDF: 1173424494.6/24
 Right Out: 134306.068 $\pm$ 0.076 χ^2 /NDF: 678392503.4/29
 Left In: 131285.623 $\pm$ 0.068 χ^2 /NDF: 1056232192.1/22
 Left: 131248.166 $\pm$ 0.047 χ^2 /NDF: 2230223308.9/4
 Right: 134192.228 $\pm$ 0.057 χ^2 /NDF: 1279998299.1/4
 In: 132373.985 $\pm$ 0.053 χ^2 /NDF: 2297327611.8/47
 Out: 132502.343 $\pm$ 0.049 χ^2 /NDF: 2813811934.8/5
 All: 132443.278 $\pm$ 0.036 χ^2 /NDF: 511428040

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 283.205 $\pm$ 0.060 χ^2 /NDF: 1576411.6/24

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF:2818169.1/24

Right Out: 272.980 $\pm$ 0.054 χ^2 /NDF: 1776409.5/29

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

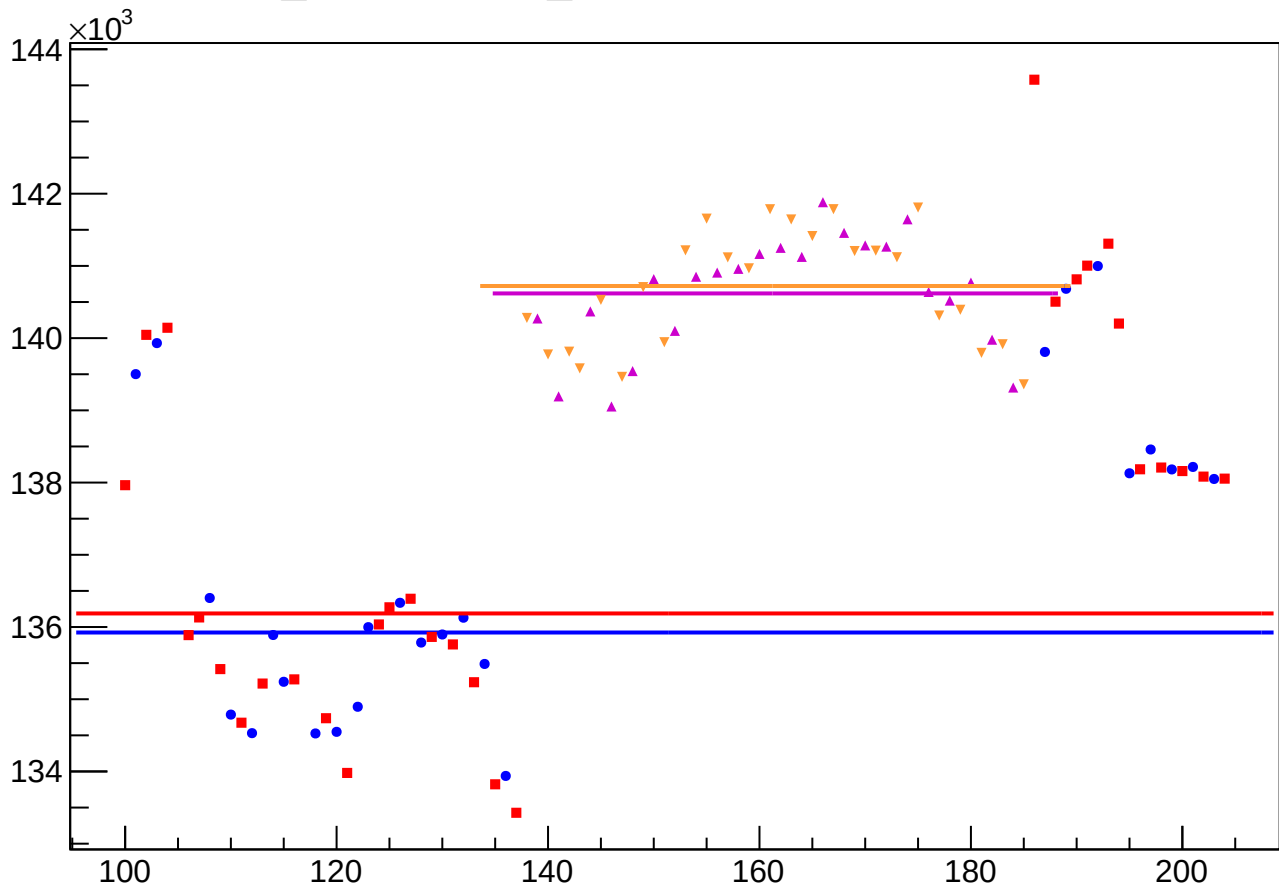
Right: 277.542 $\pm$ 0.040 χ^2 /NDF: 3368917.6/54

In: 276.480 $\pm$ 0.038 χ^2 /NDF:3819071.3/47

Out: 266.725 $\pm$ 0.035 χ^2 /NDF:4617722.3/54

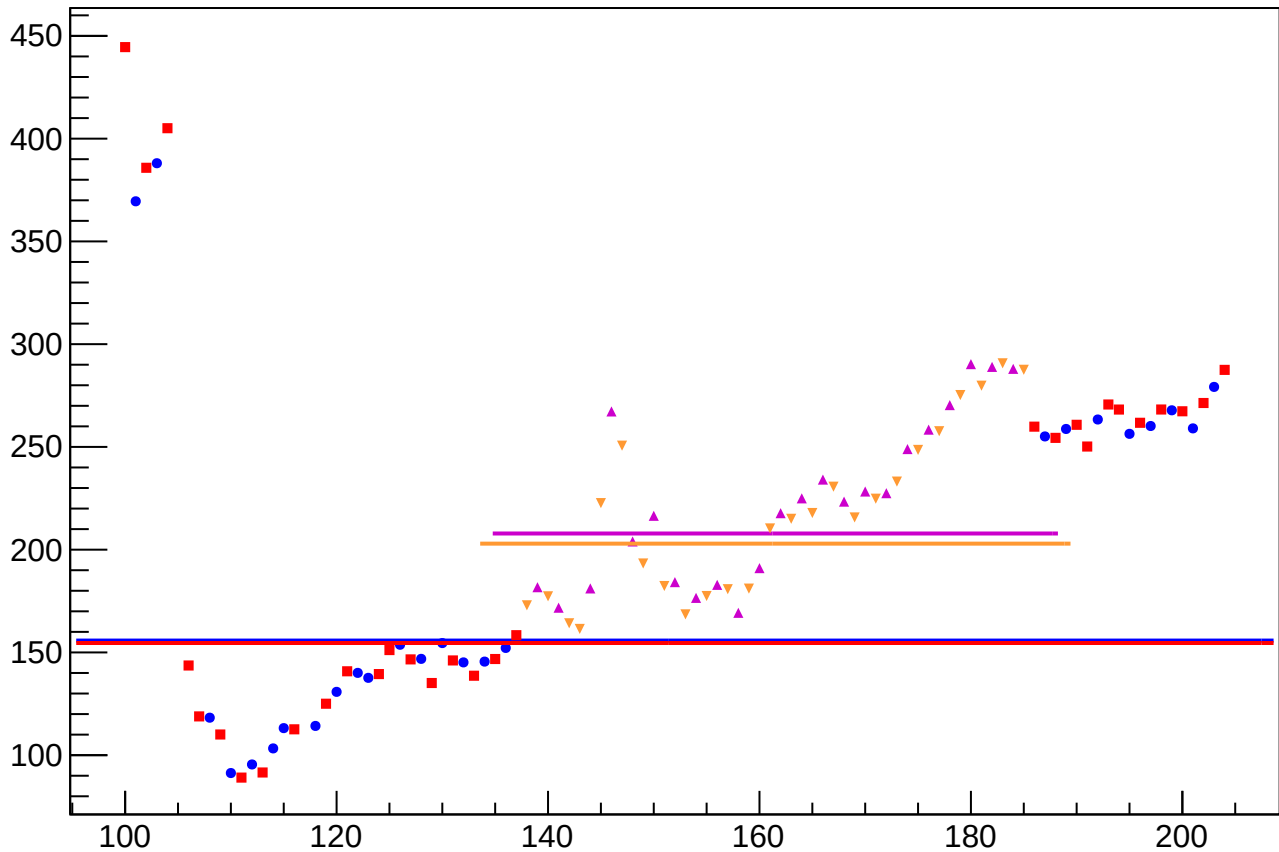
All: 271.213 $\pm$ 0.026 χ^2 /NDF: 8473077.5/102

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135923.933 $\pm$ 0.049	χ^2 /NDF: 1369879754.3/24	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: 136065.399 $\pm$ 0.033	χ^2 /NDF: 3439730624.4/47
Right Out: 136187.882 $\pm$ 0.046	χ^2 /NDF: 2054283043.9/29	In: 138172.487 $\pm$ 0.035	χ^2 /NDF: 5971792817.7/47
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138318.160 $\pm$ 0.033	χ^2 /NDF: 6952485563.6/54
		All: 138249.936 $\pm$ 0.024	χ^2 /NDF: 129333054.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 155.768 $\pm$ 0.035 χ^2 /NDF: 3648019.1/24

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 154.586 $\pm$ 0.032 χ^2 /NDF: 4562201.6/29

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

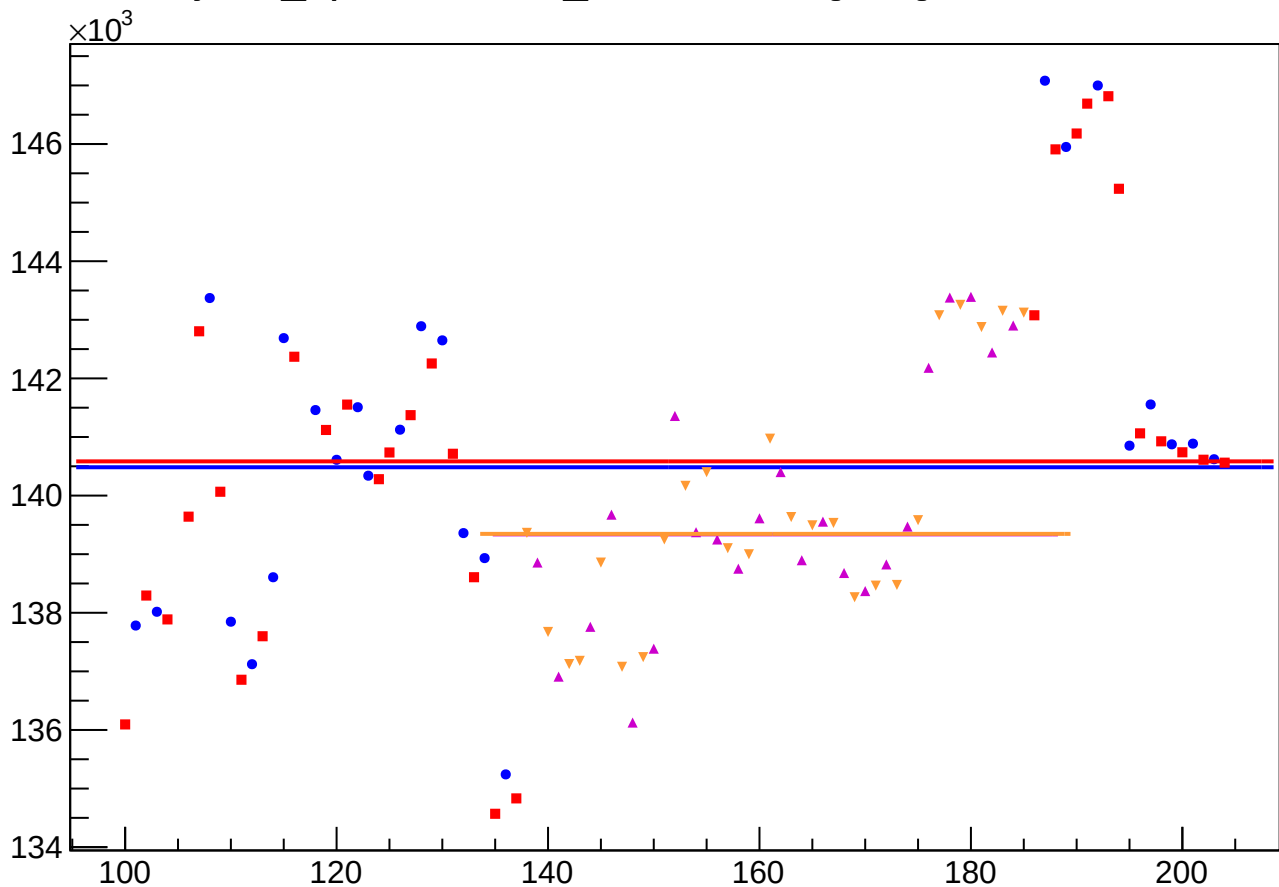
Right: 155.135 $\pm$ 0.024 χ^2 /NDF: 8210844.6/54

In: 180.721 $\pm$ 0.025 χ^2 /NDF:5681364.5/47

Out: 177.303 $\pm$ 0.023 χ^2 /NDF:6672210.6/54

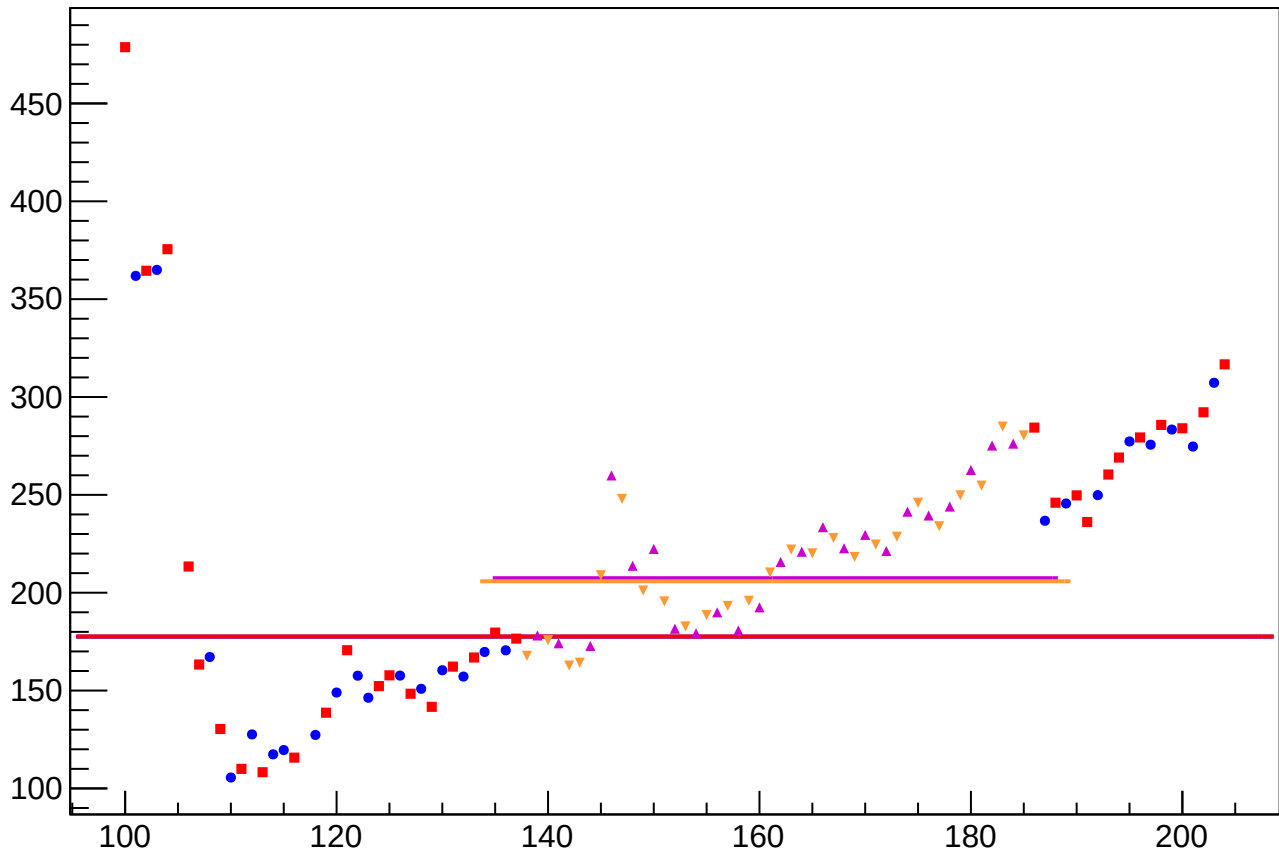
All: 178.904 $\pm$ 0.017 χ^2 /NDF: 12363518.5/10

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140483.559 $\pm$ 0.055 χ^2 /NDF: 2770970577.3/24
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 140583.984 $\pm$ 0.051 χ^2 /NDF: 3211294353.6/29
 Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22
 Left: 139342.403 $\pm$ 0.035 χ^2 /NDF: 2564192227.9/24
 Right: 140537.062 $\pm$ 0.037 χ^2 /NDF: 5984060633.4/24
 In: 139868.848 $\pm$ 0.037 χ^2 /NDF: 4299343072.4/47
 Out: 139937.380 $\pm$ 0.035 χ^2 /NDF: 4787363626.0/51
 All: 139904.852 $\pm$ 0.026 χ^2 /NDF: 908848598.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 177.556 $\pm$ 0.039 χ^2 /NDF: 2777813.9/24

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 177.649 $\pm$ 0.036 χ^2 /NDF: 3523594.6/29

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

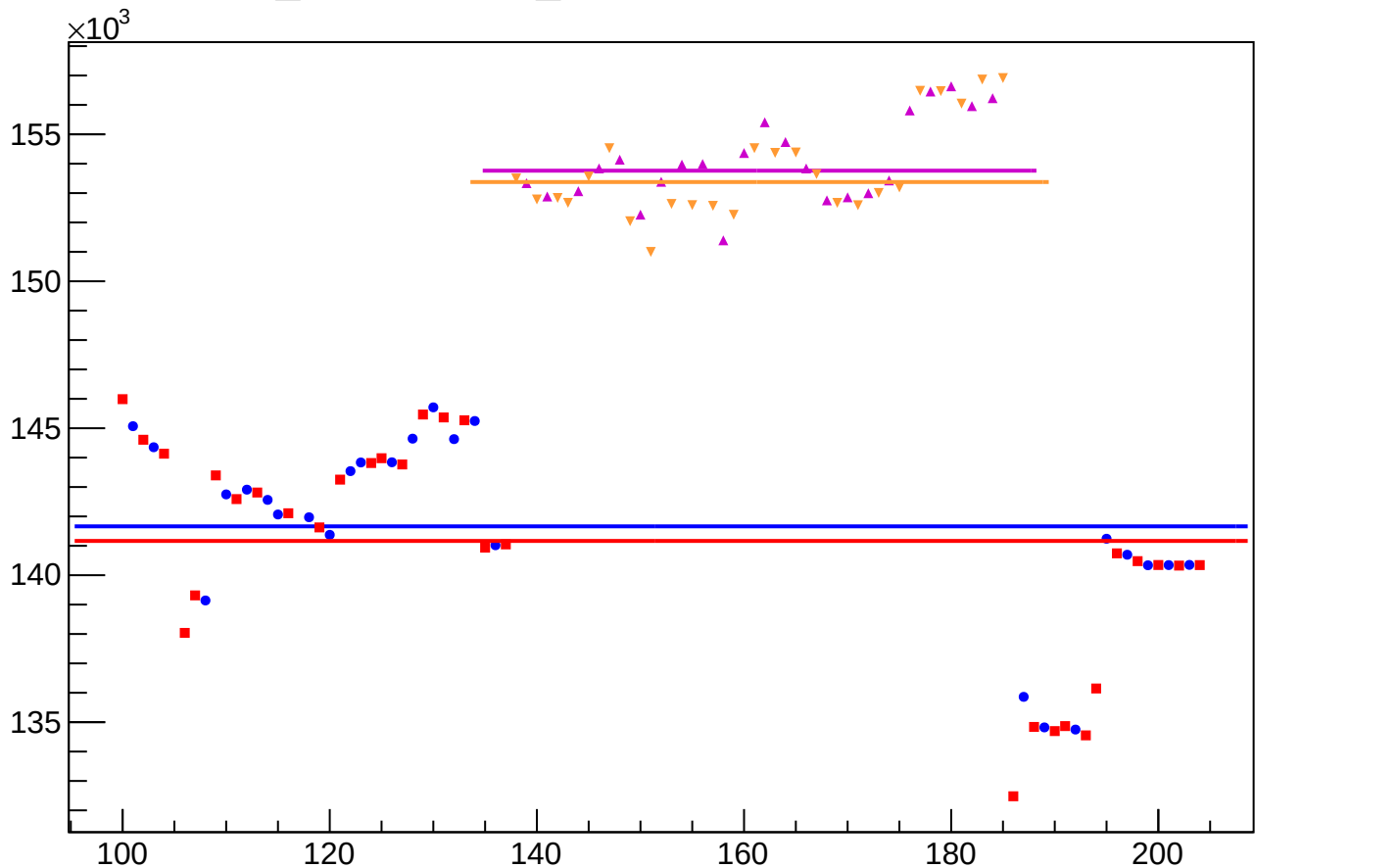
Right: 177.605 $\pm$ 0.026 χ^2 /NDF: 6301411.6/54

In: 193.577 $\pm$ 0.026 χ^2 /NDF: 3799538.0/47

Out: 192.377 $\pm$ 0.025 χ^2 /NDF: 4578616.0/54

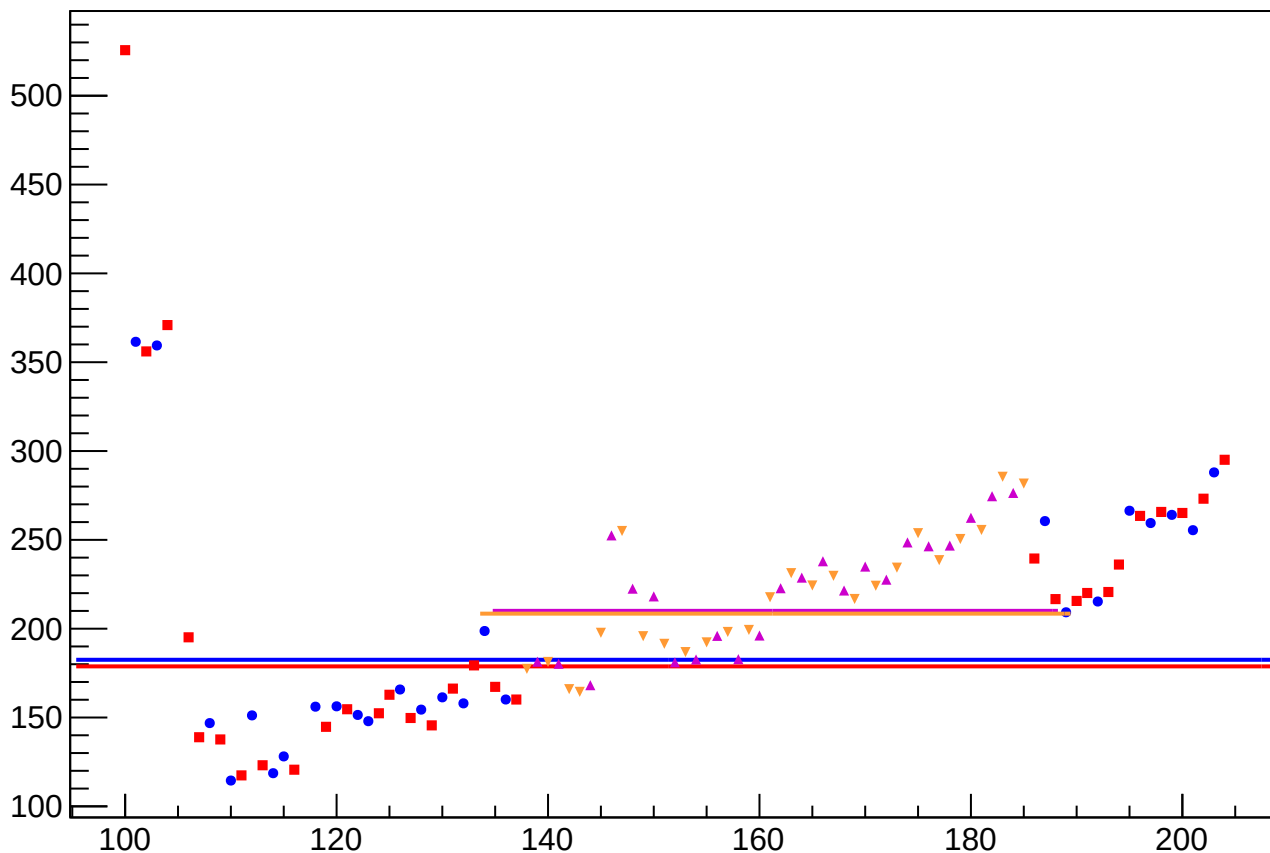
All: 192.947 $\pm$ 0.018 χ^2 /NDF: 8379246.1/102

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141662.104+/-0.055	χ^2/NDF : 2659528982.5/24	Left: 153562.262+/-0.036	χ^2/NDF : 1468093411.3/4
Left Out: 153376.698+/-0.050	χ^2/NDF : 803848095.1/24	Right: 141391.902+/-0.037	χ^2/NDF : 7120151761.5/4
Right Out: 141165.744+/-0.051	χ^2/NDF : 4416771910.0/29	In: 148148.894+/-0.038	χ^2/NDF : 28958395873.7/4
Left In: 153762.419+/-0.051	χ^2/NDF : 635075685.0/22	Out: 147400.494+/-0.035	χ^2/NDF : 34960340308.5/4
		All: 147751.444+/-0.026	χ^2/NDF : 641283745.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 182.500 $\pm$ 0.039 χ^2 /NDF: 2042438.3/24

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 178.786 $\pm$ 0.036 χ^2 /NDF: 2565440.5/29

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

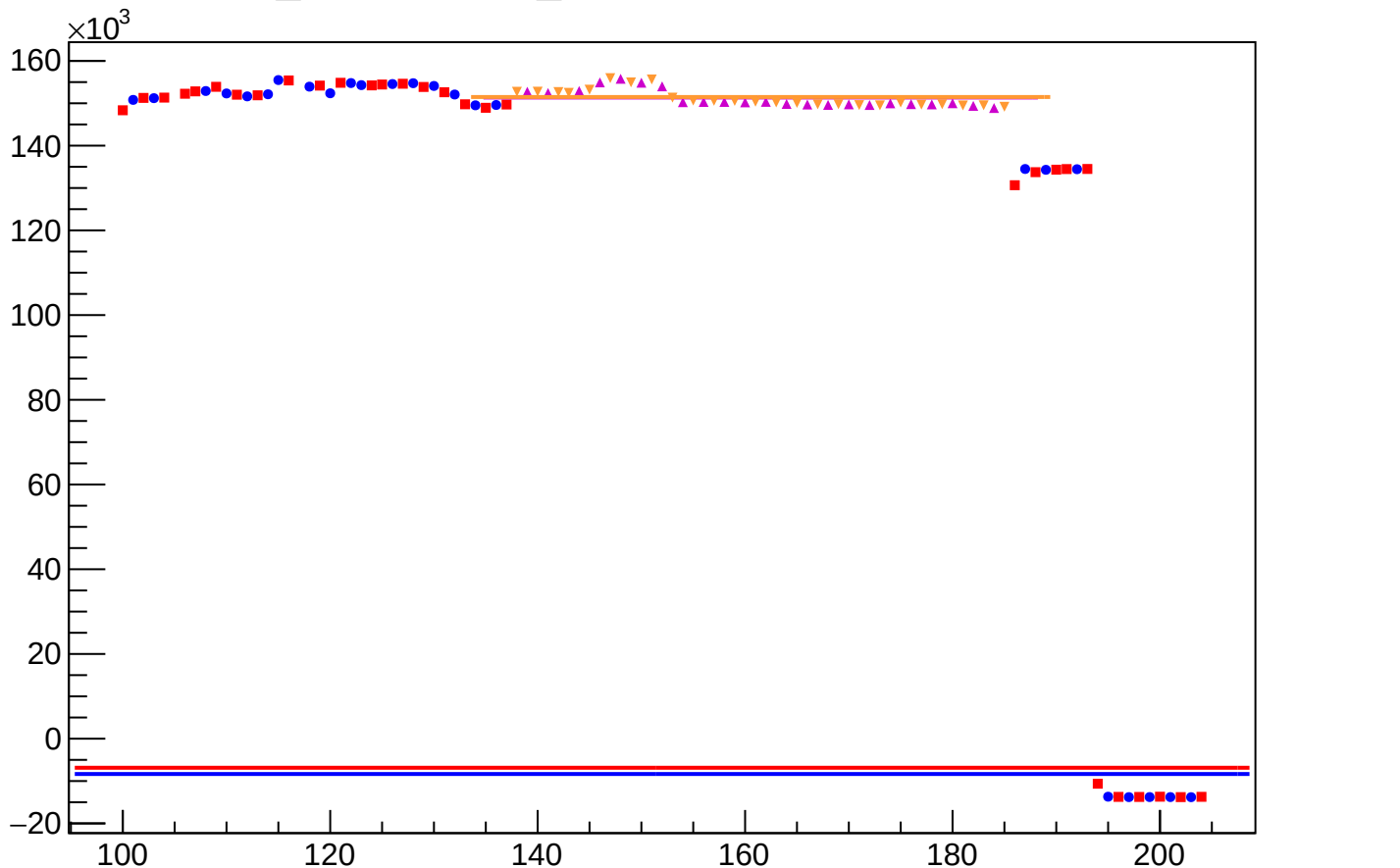
Right: 180.478 $\pm$ 0.026 χ^2 /NDF: 4612790.1/54

In: 197.263 $\pm$ 0.027 χ^2 /NDF: 3010644.2/47

Out: 193.940 $\pm$ 0.025 χ^2 /NDF: 3637735.2/54

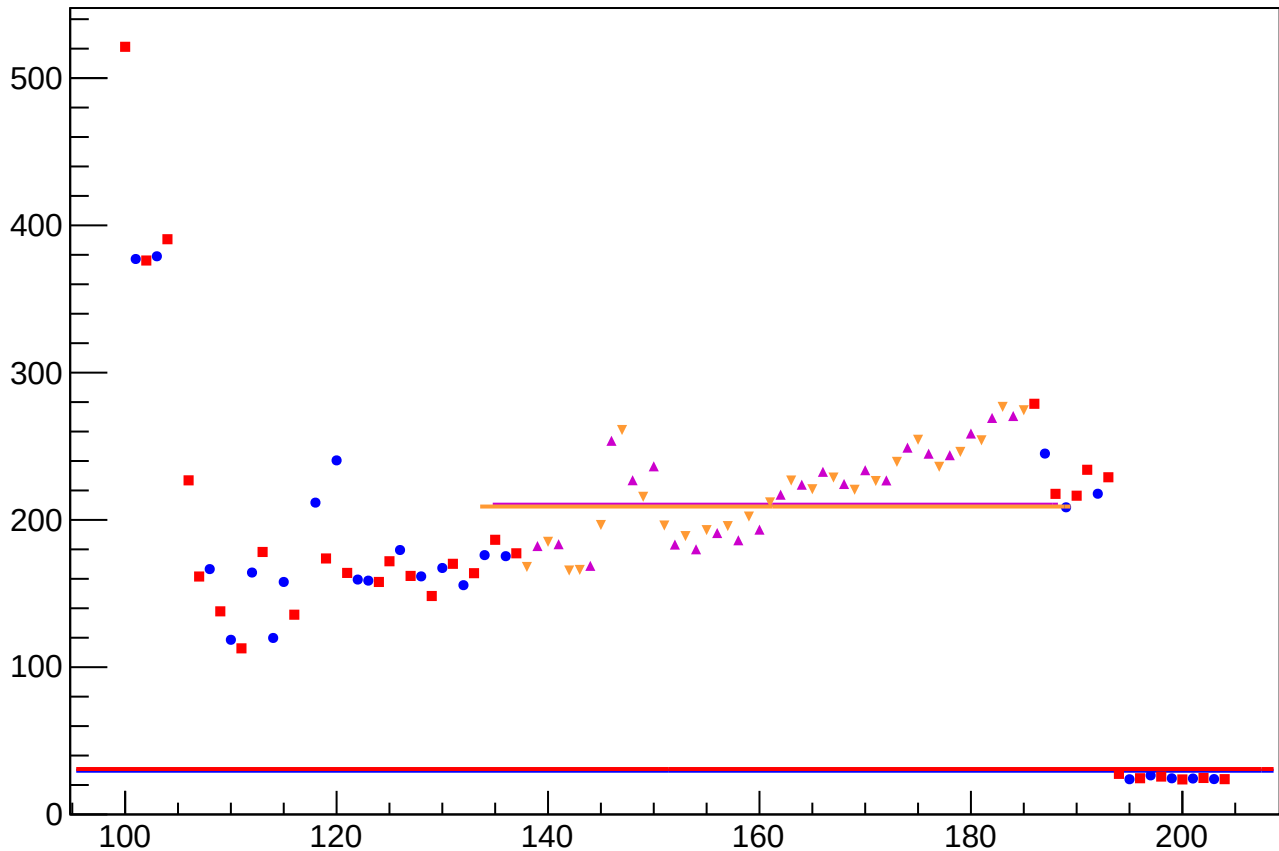
All: 195.498 $\pm$ 0.018 χ^2 /NDF: 6656643.5/102

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -8338.713 ± 0.012 $\chi^2/\text{NDF}: 5815132905671.0/24$ Left: 151425.512 ± 0.036 $\chi^2/\text{NDF}: 2906409079.9/24$
 Left Out: 151483.385 ± 0.050 $\chi^2/\text{NDF}: 1481910066.9/24$ Right: -7597.737 ± 0.009 $\chi^2/\text{NDF}: 1289214489738.0/24$
 Right Out: -6862.703 ± 0.012 $\chi^2/\text{NDF}: 7069628417588.3/29$ In: 139.478 ± 0.012 $\chi^2/\text{NDF}: 14957390865062.2/24$
 Left In: 151363.165 ± 0.051 $\chi^2/\text{NDF}: 1421662089.0/22$ Out: 2088.117 ± 0.012 $\chi^2/\text{NDF}: 16716954116666.0/24$
 All: 1119.493 ± 0.008 $\chi^2/\text{NDF}: 31687960277.0/24$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 29.694 $\pm$ 0.009 χ^2 /NDF: 11420172.9/24

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 30.850 $\pm$ 0.009 χ^2 /NDF: 13312266.2/29

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

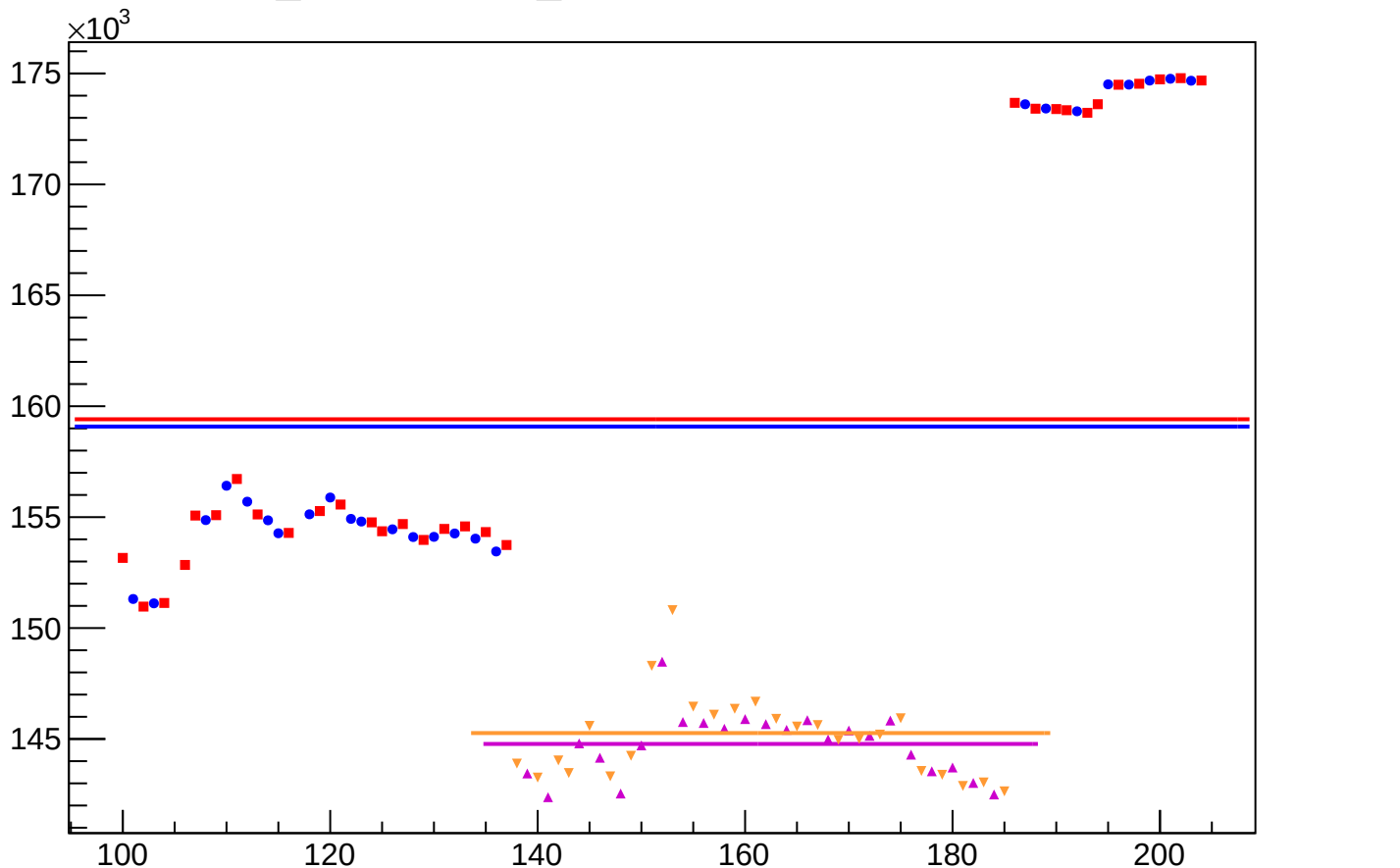
Right: 30.274 $\pm$ 0.006 χ^2 /NDF: 24741506.4/54

In: 39.284 $\pm$ 0.008 χ^2 /NDF: 35490465.0/47

Out: 40.925 $\pm$ 0.008 χ^2 /NDF: 38460246.7/54

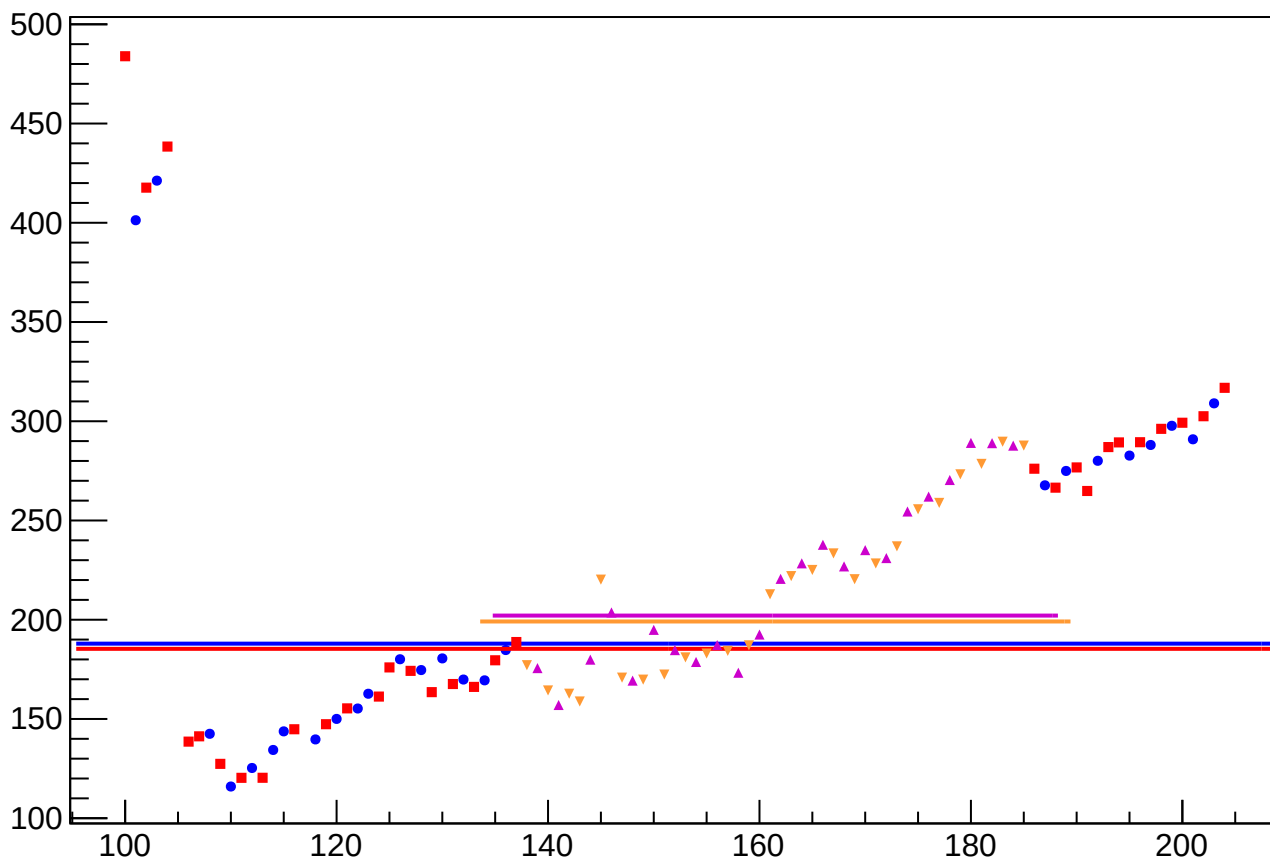
All: 40.109 $\pm$ 0.006 χ^2 /NDF: 73970018.6/102

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 159084.400 $\pm$ 0.058	χ^2 /NDF: 19805694384.8/24	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/24
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 159262.151 $\pm$ 0.039	χ^2 /NDF: 43896052195.4/24
Right Out: 159412.335 $\pm$ 0.053	χ^2 /NDF: 24072903705.5/29	In: 150839.650 $\pm$ 0.038	χ^2 /NDF: 56047420137.3/29
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 151536.257 $\pm$ 0.035	χ^2 /NDF: 65274189721.7/22
		All: 151209.467 $\pm$ 0.026	χ^2 /NDF: 121503633.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 187.948 $\pm$ 0.041 χ^2 /NDF: 2860788.2/24

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF:1152231.0/24

Right Out: 185.336 $\pm$ 0.038 χ^2 /NDF: 3568558.6/29

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

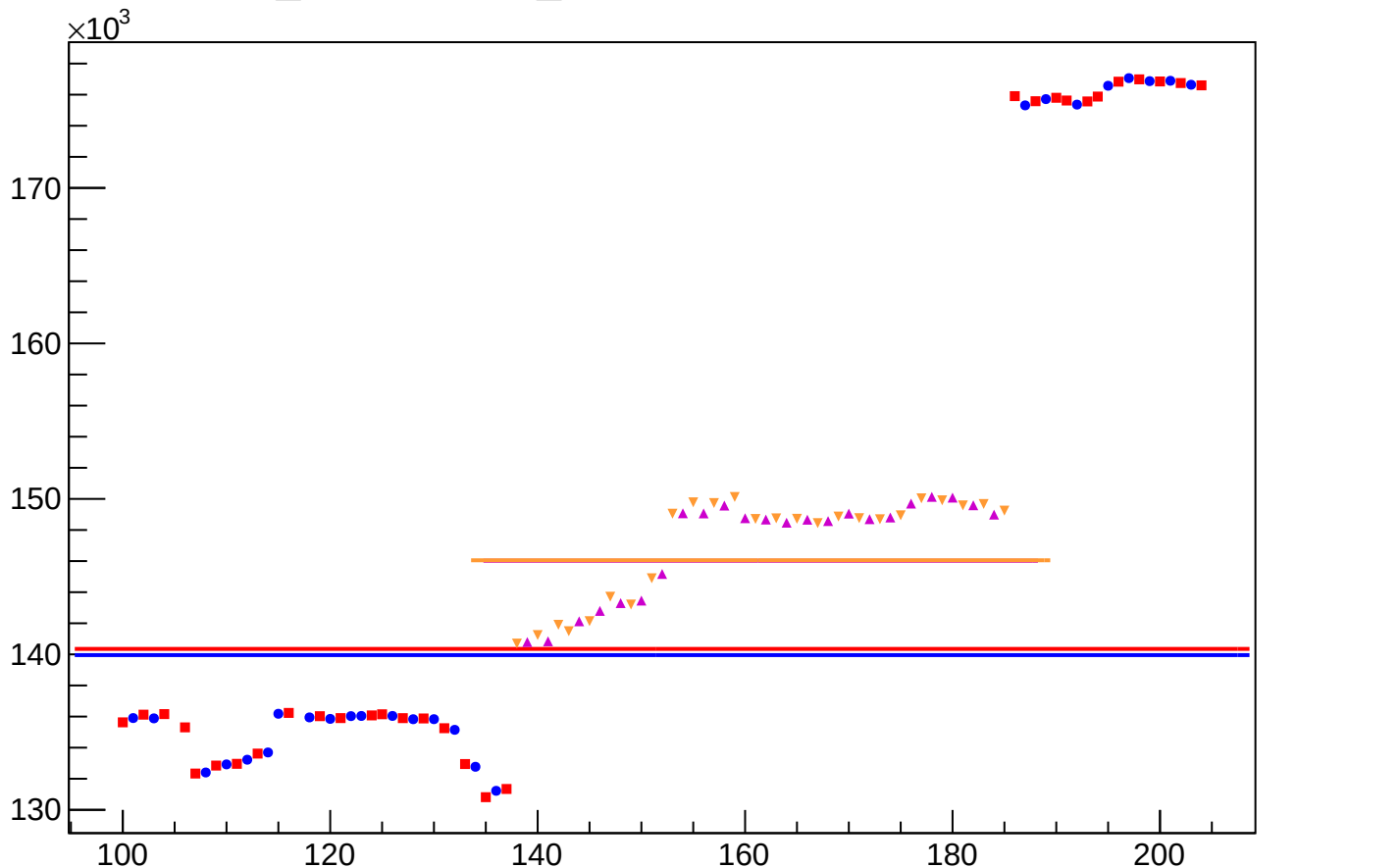
Right: 186.532 $\pm$ 0.028 χ^2 /NDF: 6431561.9/54

In: 196.097 $\pm$ 0.027 χ^2 /NDF:3987636.9/47

Out: 193.010 $\pm$ 0.025 χ^2 /NDF:4795752.3/54

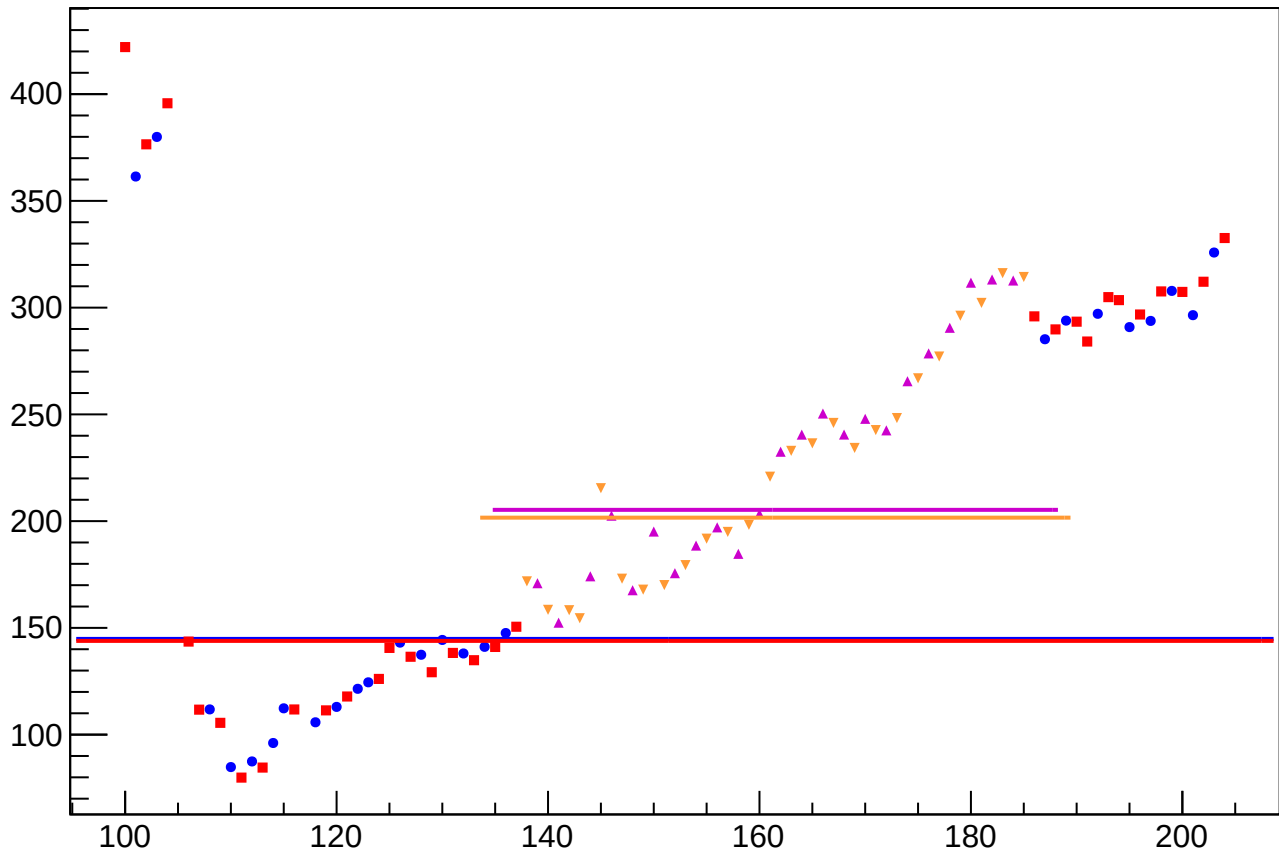
All: 194.458 $\pm$ 0.018 χ^2 /NDF: 8790540.7/102

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 139954.065 $\pm$ 0.047	χ^2/NDF : 94986271233.1/24	Left: 146036.626 $\pm$ 0.035	χ^2/NDF : 9994930852.8/24
Left Out: 146051.733 $\pm$ 0.048	χ^2/NDF : 5403300123.1/24	Right: 140166.543 $\pm$ 0.032	χ^2/NDF : 212159985291.1/24
Right Out: 140351.766 $\pm$ 0.044	χ^2/NDF : 117135282490.6/29	In: 142753.476 $\pm$ 0.034	χ^2/NDF : 107300626277.2/29
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 142922.417 $\pm$ 0.032	χ^2/NDF : 130183128934.1/22
		All: 142842.923 $\pm$ 0.024	χ^2/NDF : 237496517.1/24

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 144.835 $\pm$ 0.033 χ^2 /NDF: 4880838.6/24

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 143.907 $\pm$ 0.031 χ^2 /NDF: 6120496.2/29

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

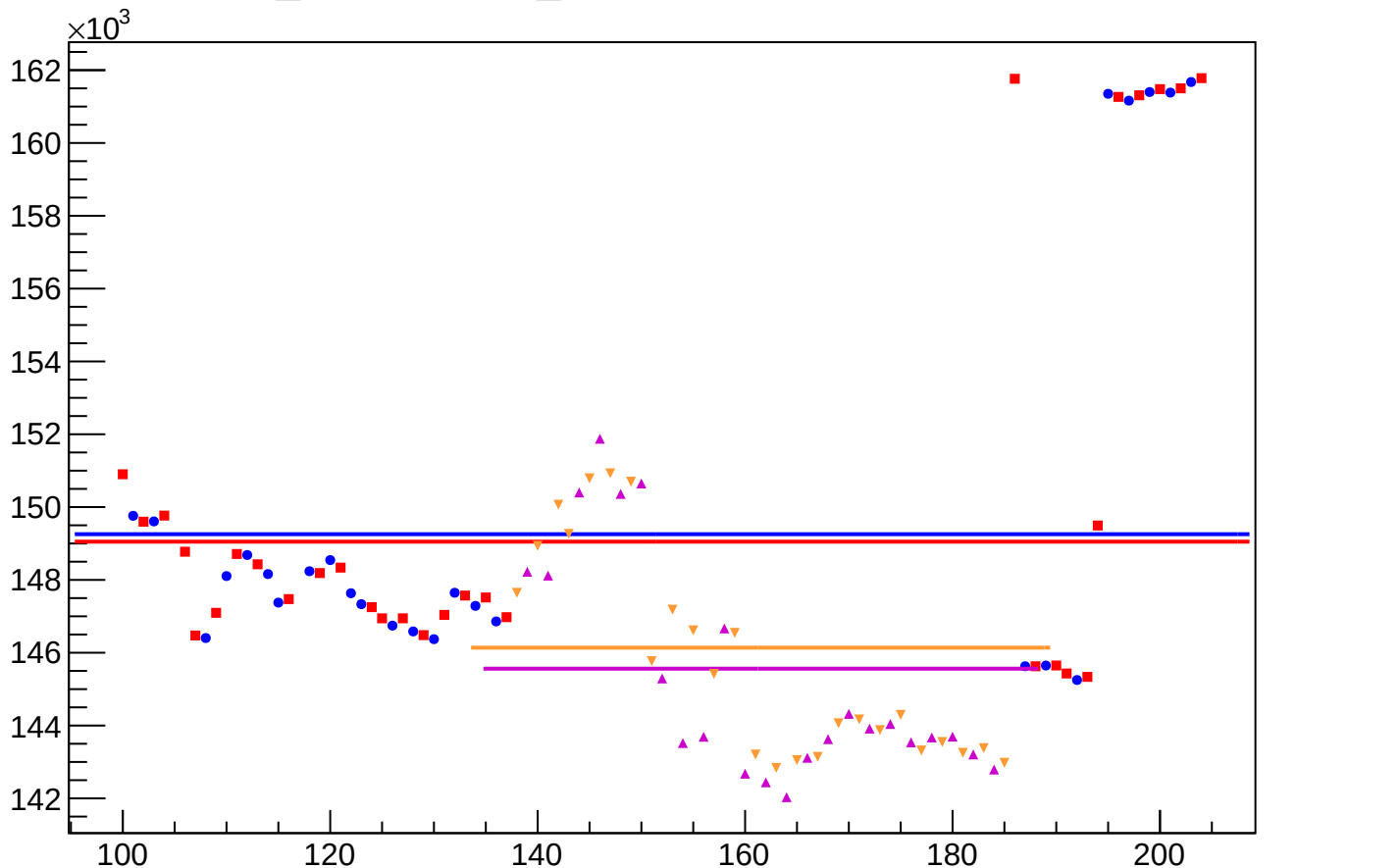
Right: 144.339 $\pm$ 0.023 χ^2 /NDF: 11001753.5/54

In: 172.733 $\pm$ 0.024 χ^2 /NDF:7840112.9/47

Out: 169.940 $\pm$ 0.023 χ^2 /NDF:9278101.5/54

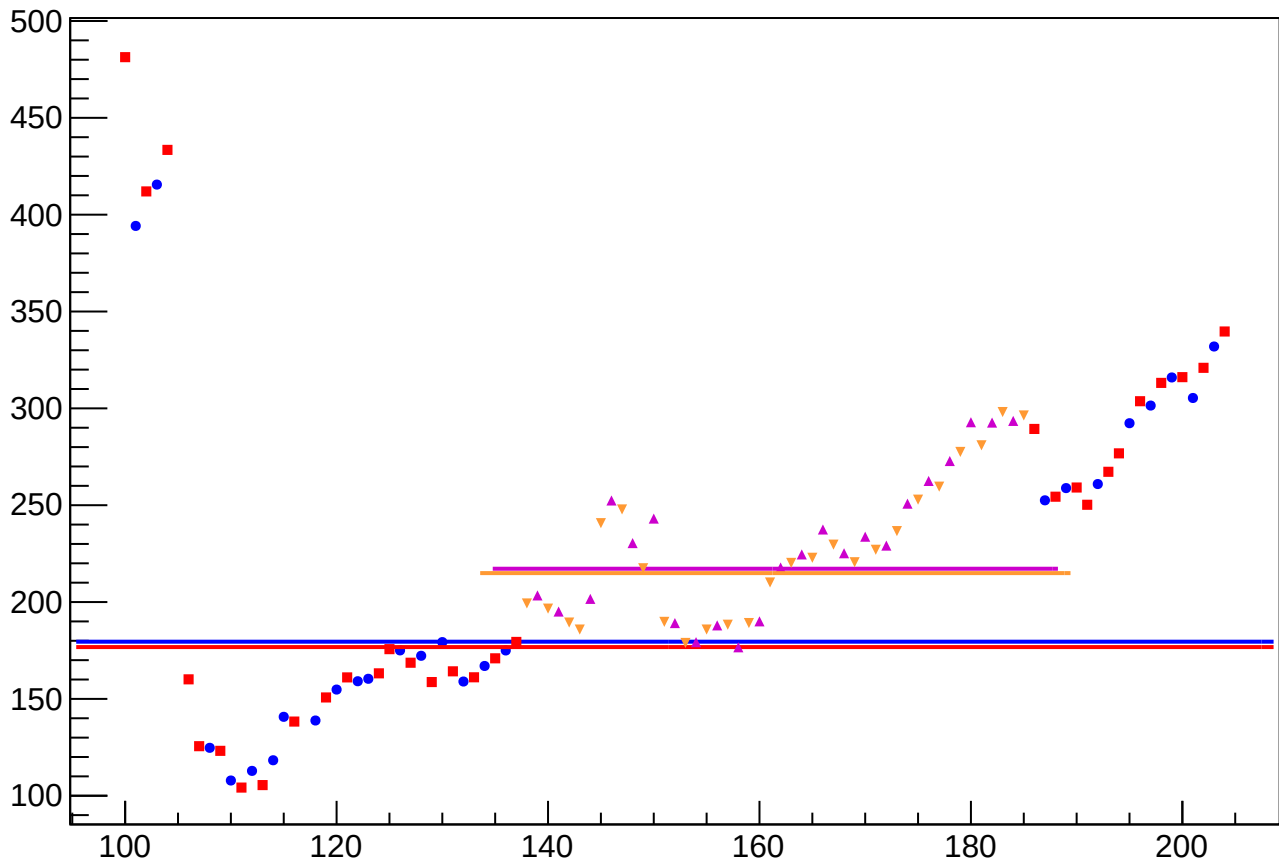
All: 171.255 $\pm$ 0.017 χ^2 /NDF: 17125189.3/100

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 149255.879 $\pm$ 0.056	χ^2 /NDF: 7355888377.6/24	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/24
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 149144.612 $\pm$ 0.038	χ^2 /NDF: 14777988624.1/24
Right Out: 149050.541 $\pm$ 0.051	χ^2 /NDF: 7414794348.0/29	In: 147312.482 $\pm$ 0.038	χ^2 /NDF: 12705812883.3/24
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 147580.314 $\pm$ 0.036	χ^2 /NDF: 11733186949.1/24
		All: 147454.705 $\pm$ 0.026	χ^2 /NDF: 244647064.1/24

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 179.536 $\pm$ 0.040 χ^2 /NDF: 3356248.1/24

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 176.754 $\pm$ 0.036 χ^2 /NDF: 4181107.5/29

Left In: 217.203 $\pm$ 0.038 χ^2 /NDF: 764798.3/22

Left: 216.027 $\pm$ 0.026 χ^2 /NDF: 1495200.1/47

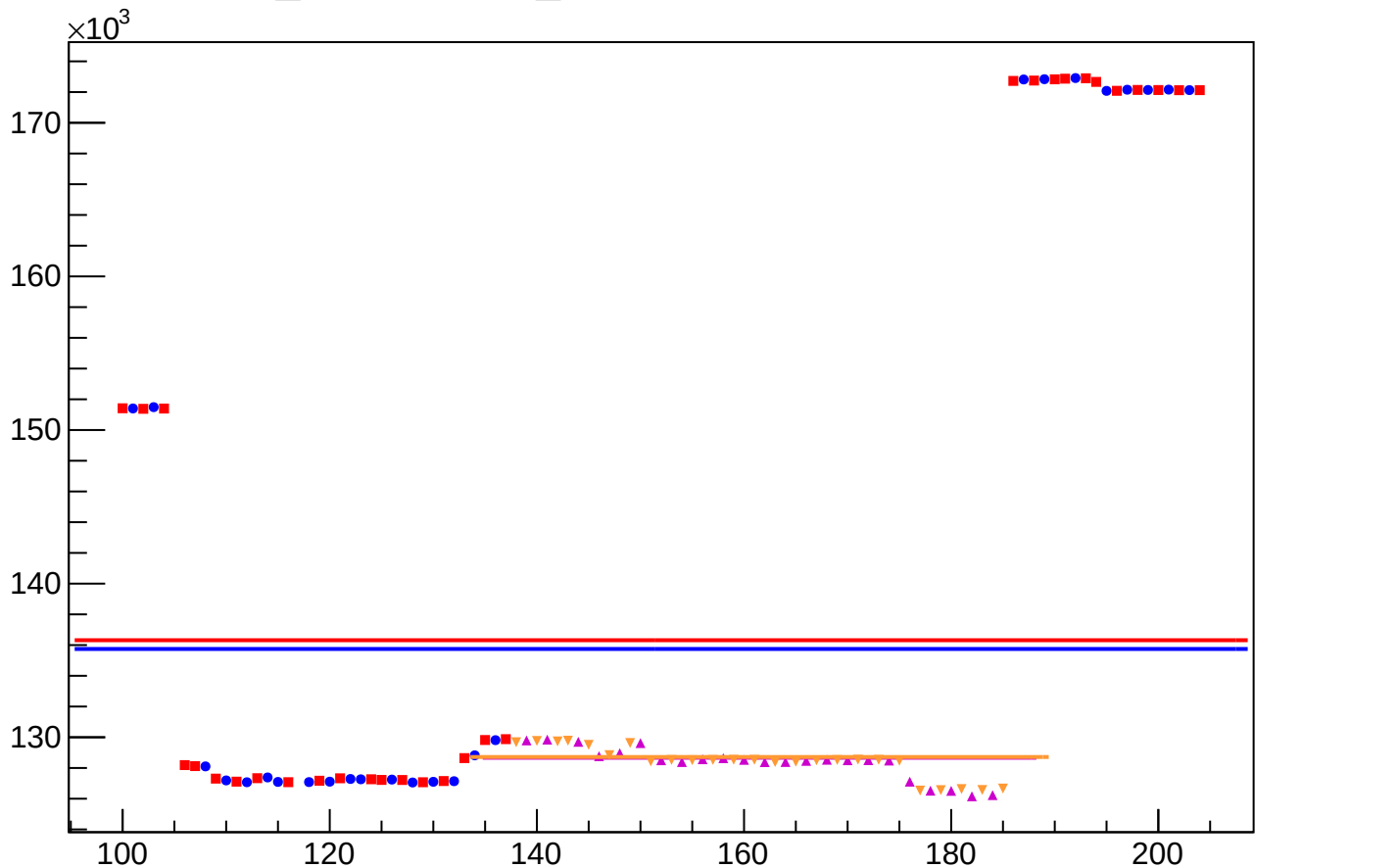
Right: 178.029 $\pm$ 0.027 χ^2 /NDF: 7540036.1/54

In: 199.355 $\pm$ 0.027 χ^2 /NDF: 4598498.9/47

Out: 196.042 $\pm$ 0.026 χ^2 /NDF: 5466807.2/54

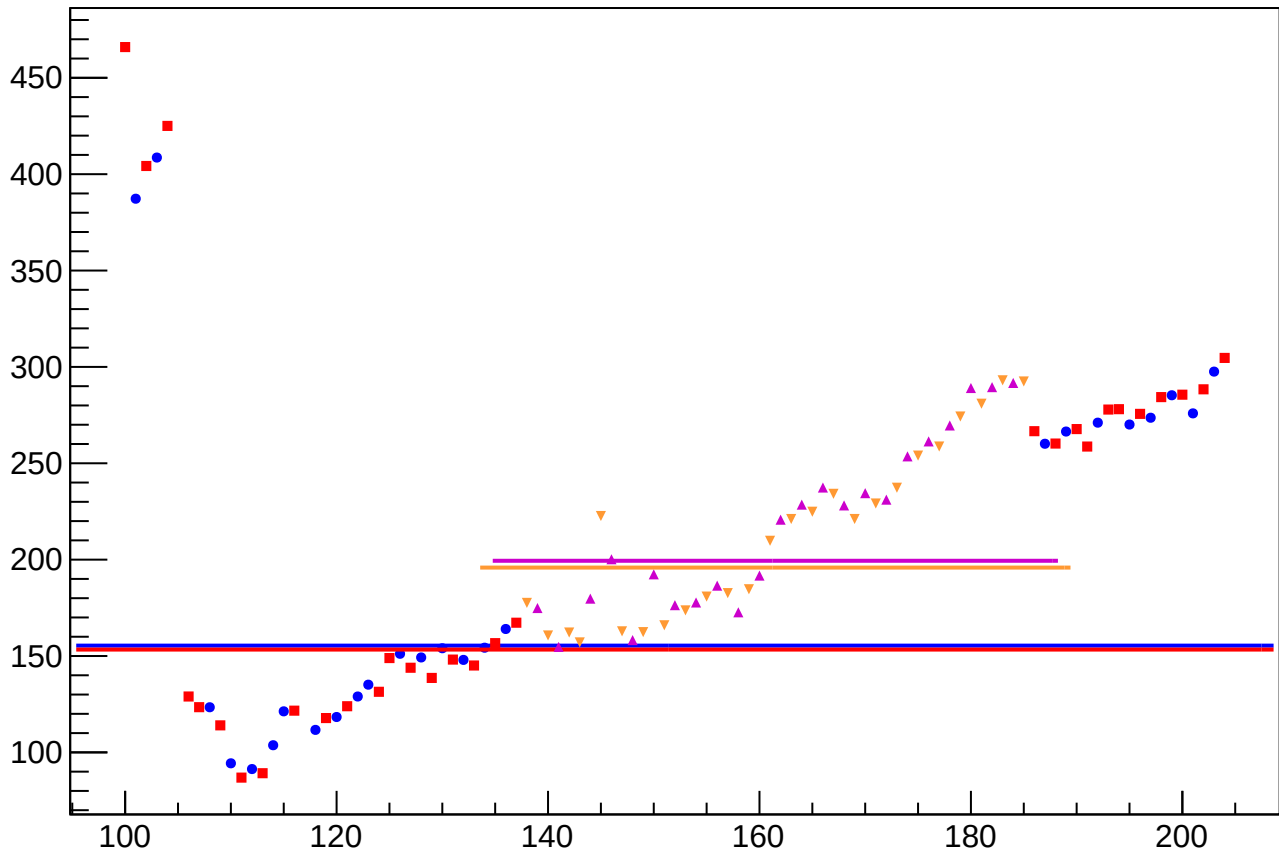
All: 197.596 $\pm$ 0.019 χ^2 /NDF: 10073176.0/100

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 135746.477 $\pm$ 0.049 χ^2 /NDF: 121042872692.4/24
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 136316.855 $\pm$ 0.045 χ^2 /NDF: 150830292774.5/29
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128691.898 $\pm$ 0.034 χ^2 /NDF: 681729975.4/47
 Right: 136054.881 $\pm$ 0.033 χ^2 /NDF: 271945663997
 In: 132187.611 $\pm$ 0.035 χ^2 /NDF: 131759774779.5
 Out: 132622.896 $\pm$ 0.033 χ^2 /NDF: 164803821466
 All: 132419.373 $\pm$ 0.024 χ^2 /NDF: 296647203

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 155.388 $\pm$ 0.035 χ^2 /NDF: 4057414.5/24

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF: 1313361.5/24

Right Out: 153.339 $\pm$ 0.032 χ^2 /NDF: 5037368.8/29

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

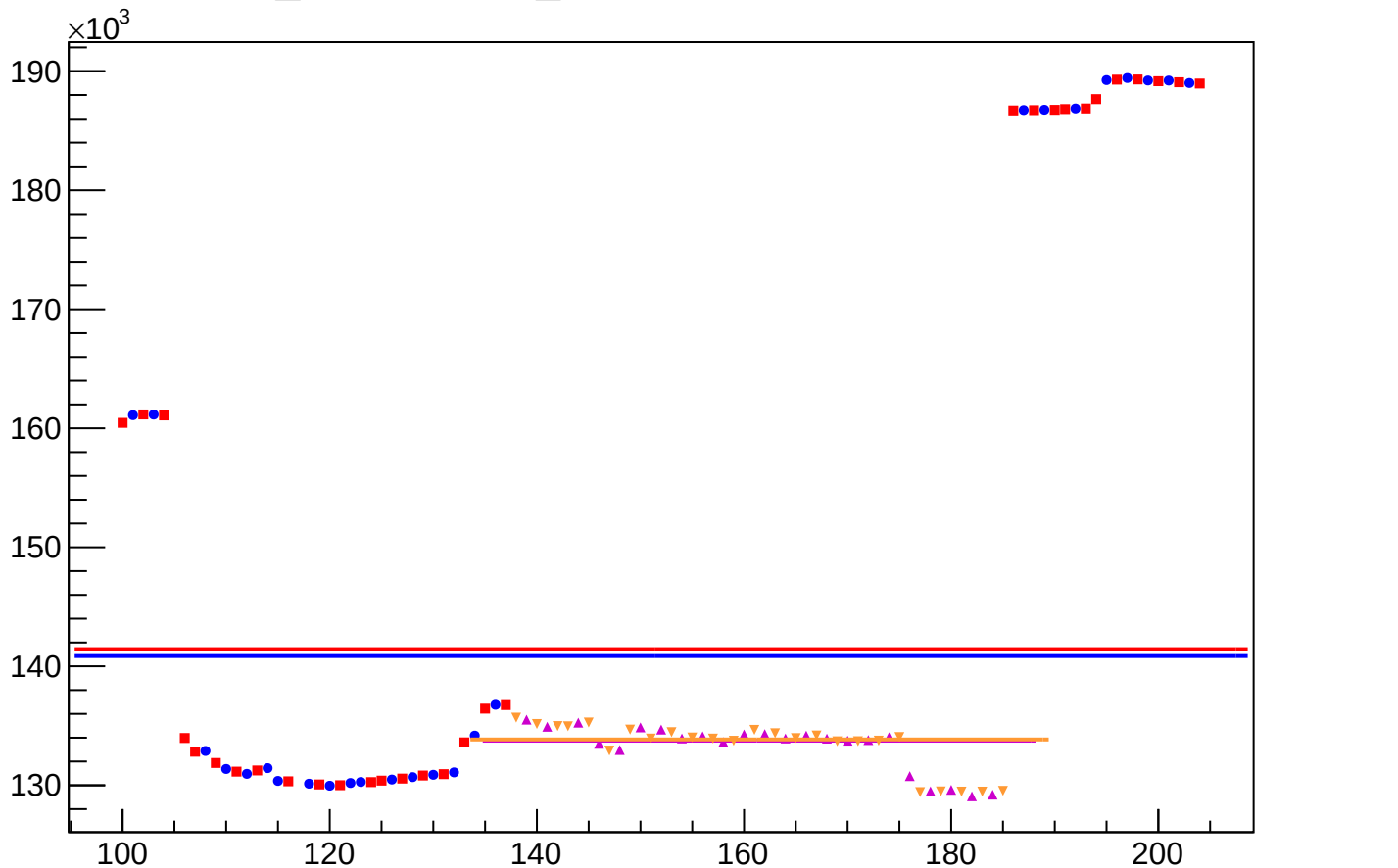
Right: 154.280 $\pm$ 0.024 χ^2 /NDF: 9096654.9/54

In: 177.520 $\pm$ 0.025 χ^2 /NDF: 6026268.6/47

Out: 174.011 $\pm$ 0.023 χ^2 /NDF: 7204148.7/54

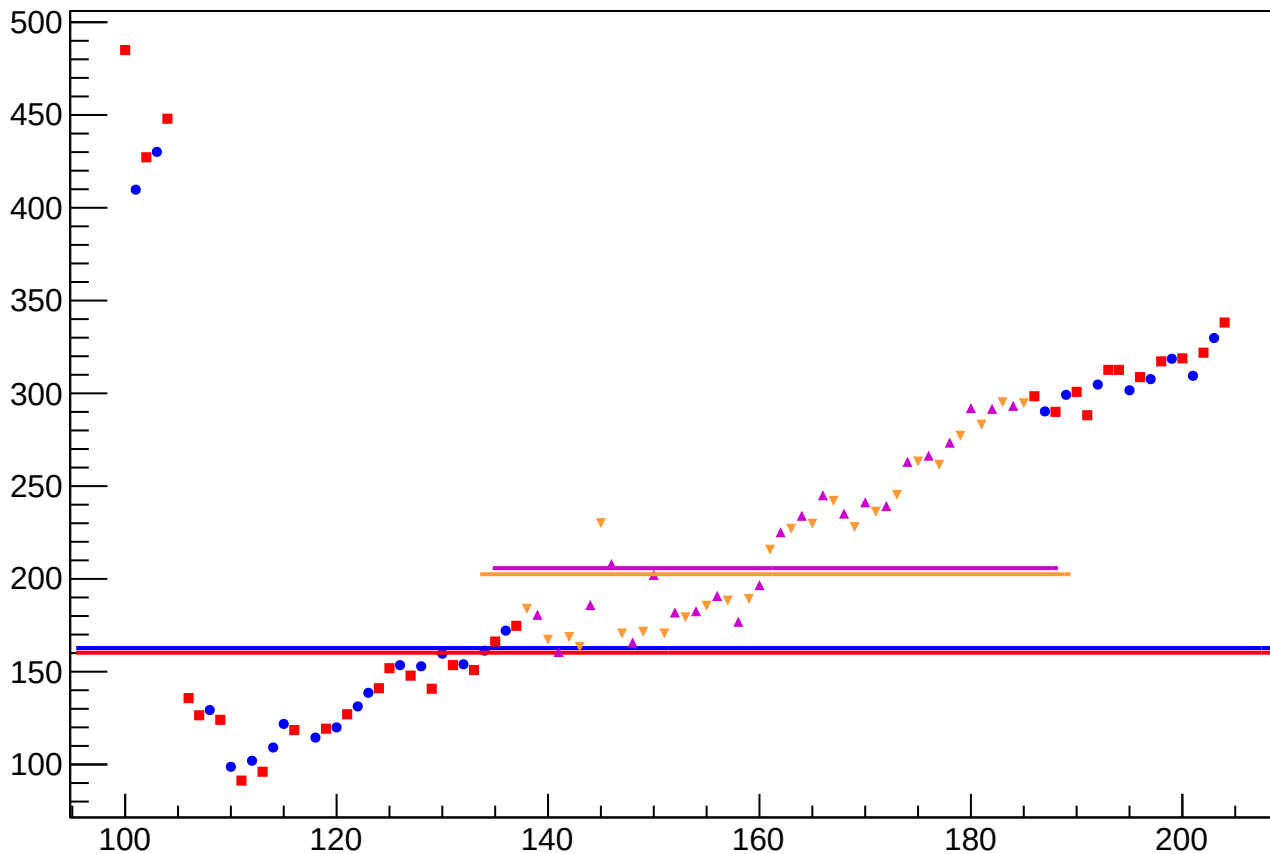
All: 175.651 $\pm$ 0.017 χ^2 /NDF: 13241283.9/100

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 140859.261 $\pm$ 0.052 χ^2 /NDF: 161207471158.7/24
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 141440.979 $\pm$ 0.048 χ^2 /NDF: 196759570430.0/29
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/24
 Right: 141173.947 $\pm$ 0.035 χ^2 /NDF: 358034672966
 In: 137199.655 $\pm$ 0.036 χ^2 /NDF: 171774141332.3
 Out: 137669.127 $\pm$ 0.034 χ^2 /NDF: 210304664335.
 All: 137449.411 $\pm$ 0.025 χ^2 /NDF: 382168076

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 162.750 $\pm$ 0.037 χ^2 /NDF: 4385987.3/24

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 160.238 $\pm$ 0.034 χ^2 /NDF: 5494480.0/29

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

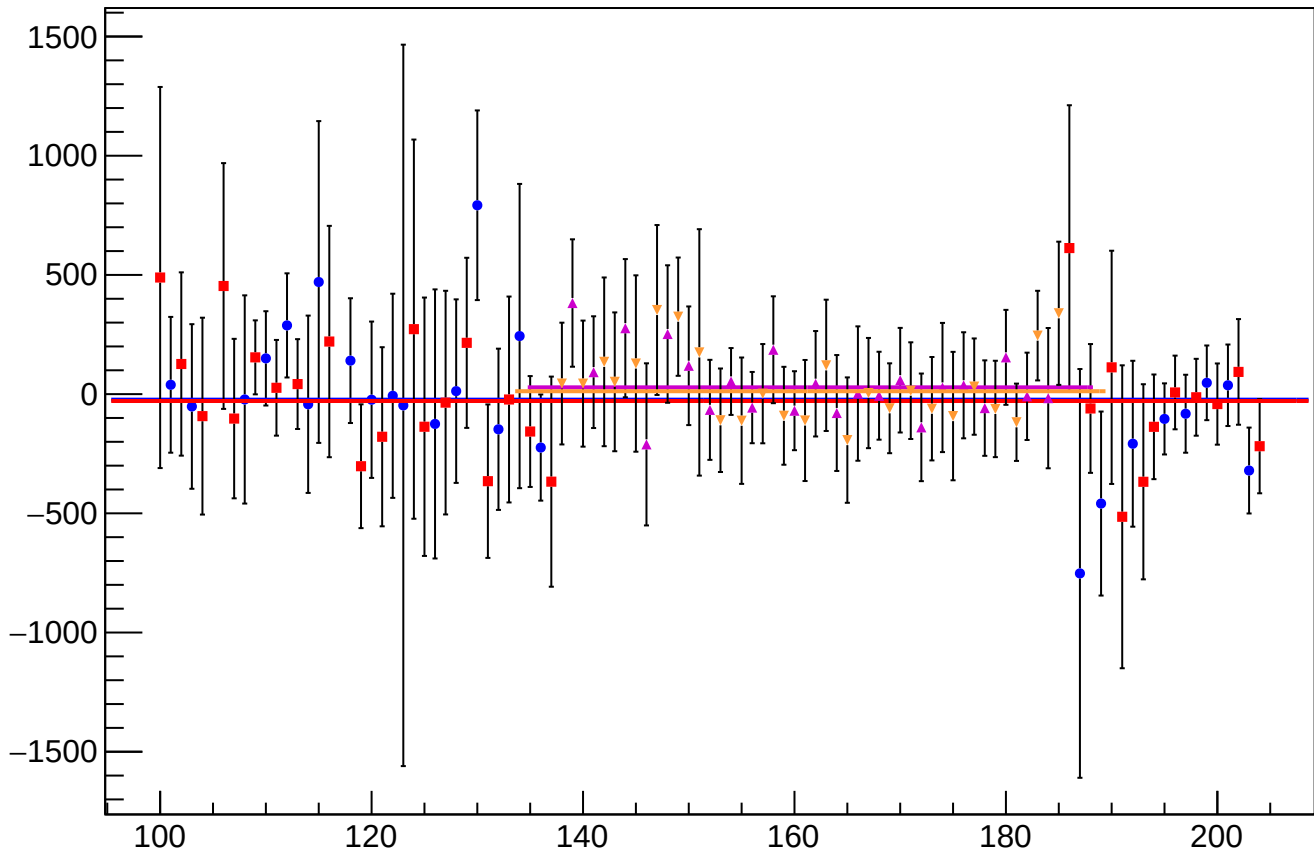
Right: 161.391 $\pm$ 0.025 χ^2 /NDF: 9882989.6/54

In: 184.914 $\pm$ 0.026 χ^2 /NDF:6185468.8/47

Out: 181.253 $\pm$ 0.024 χ^2 /NDF:7480317.4/54

All: 182.966 $\pm$ 0.018 χ^2 /NDF: 13676643.5/10

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -23.234 ± 52.429 $\chi^2/\text{NDF}: 14.9/24$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -28.858 ± 49.129 $\chi^2/\text{NDF}: 11.4/29$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

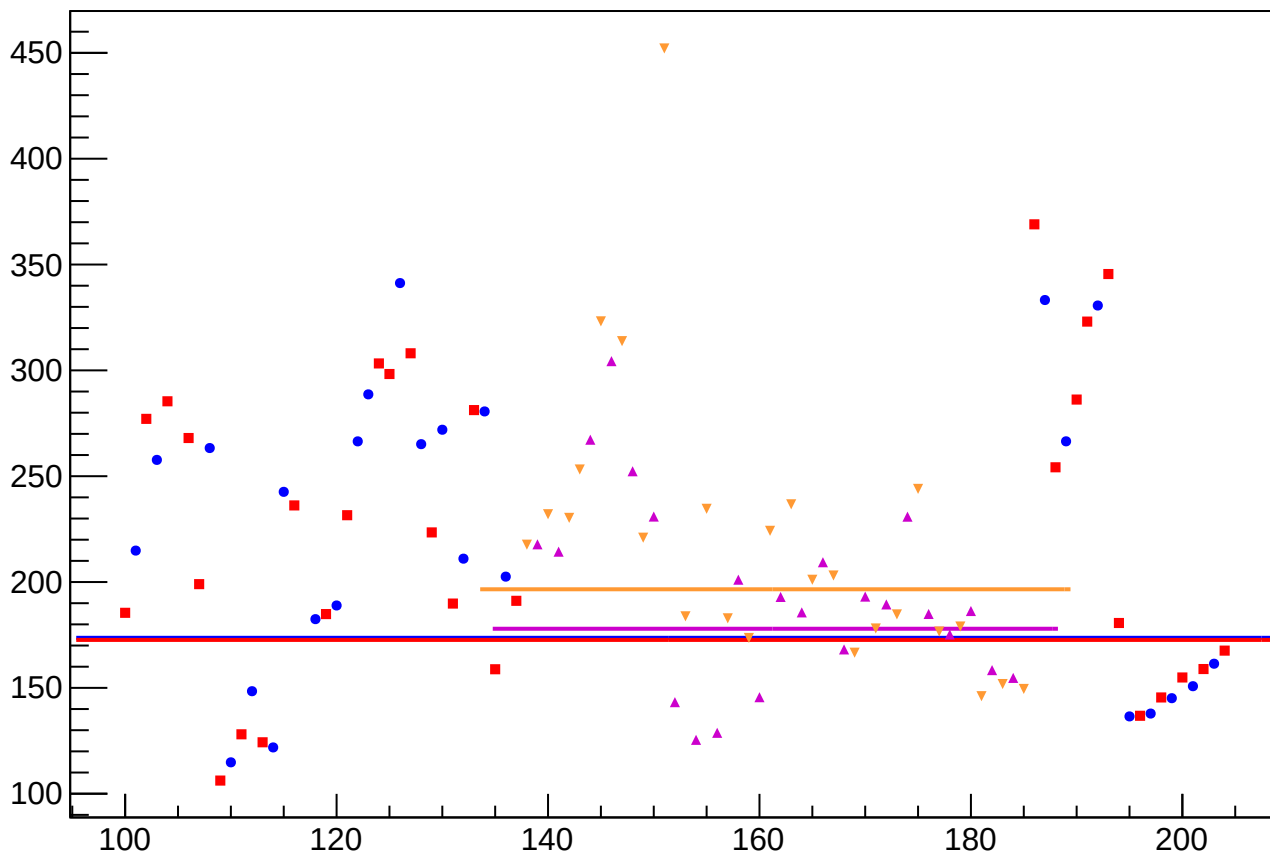
Right: -26.229 ± 35.849 $\chi^2/\text{NDF}: 26.3/54$

In: 6.702 ± 34.010 $\chi^2/\text{NDF}: 22.1/47$

Out: -7.661 ± 34.160 $\chi^2/\text{NDF}: 20.3/54$

All: -0.448 ± 24.102 $\chi^2/\text{NDF}: 42.5/102$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 173.652 $\pm$ 0.037 χ^2 /NDF: 2069339.4/24

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 172.657 $\pm$ 0.035 χ^2 /NDF: 2746295.2/29

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

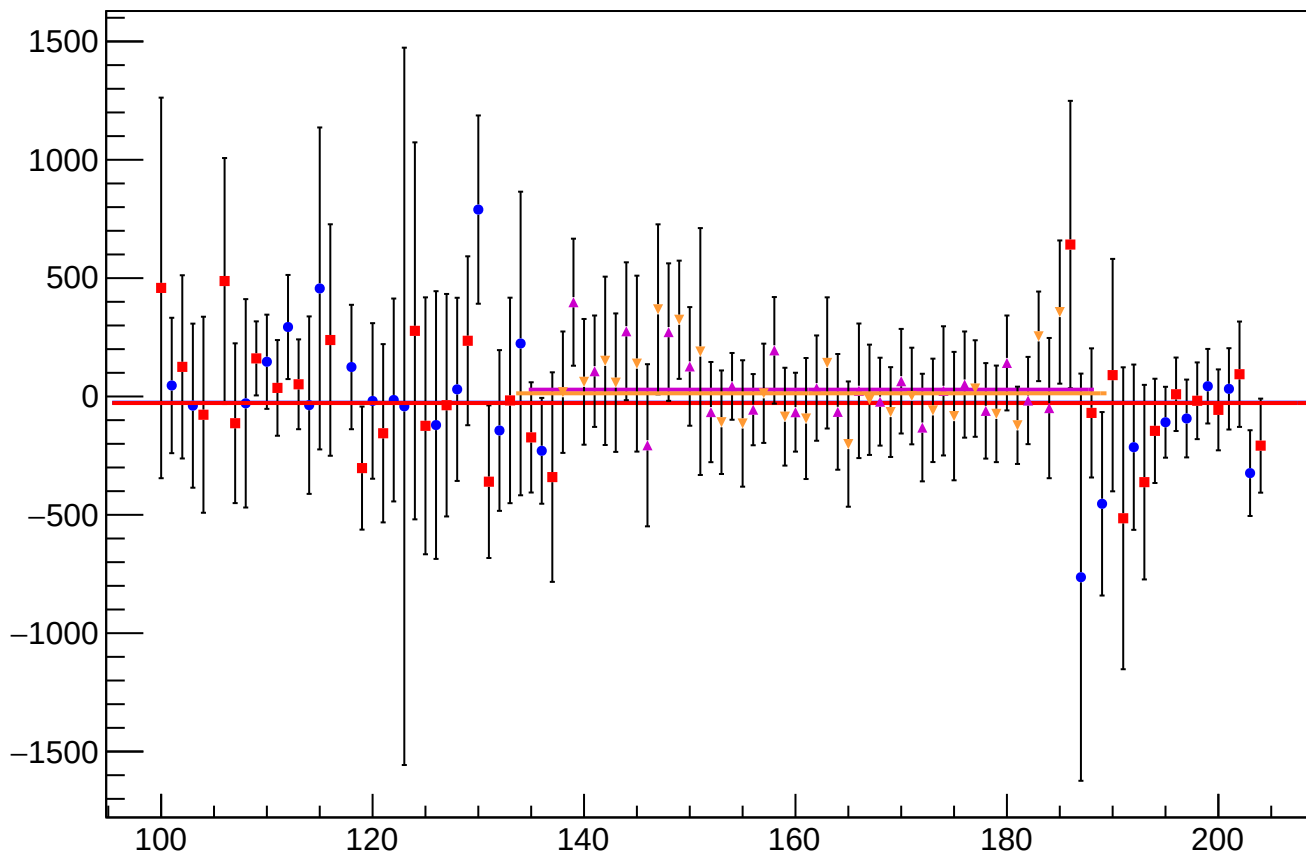
Right: 173.122 $\pm$ 0.025 χ^2 /NDF: 4816017.4/54

In: 176.131 $\pm$ 0.024 χ^2 /NDF:3682844.9/47

Out: 185.012 $\pm$ 0.024 χ^2 /NDF:4769880.1/54

All: 180.552 $\pm$ 0.017 χ^2 /NDF: 8520608.7/102

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -26.299 ± 52.688 $\chi^2/\text{NDF}: 14.8/24$

Left Out: 13.395 ± 47.862 $\chi^2/\text{NDF}: 9.0/24$

Right Out: -27.718 ± 49.381 $\chi^2/\text{NDF}: 11.5/29$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

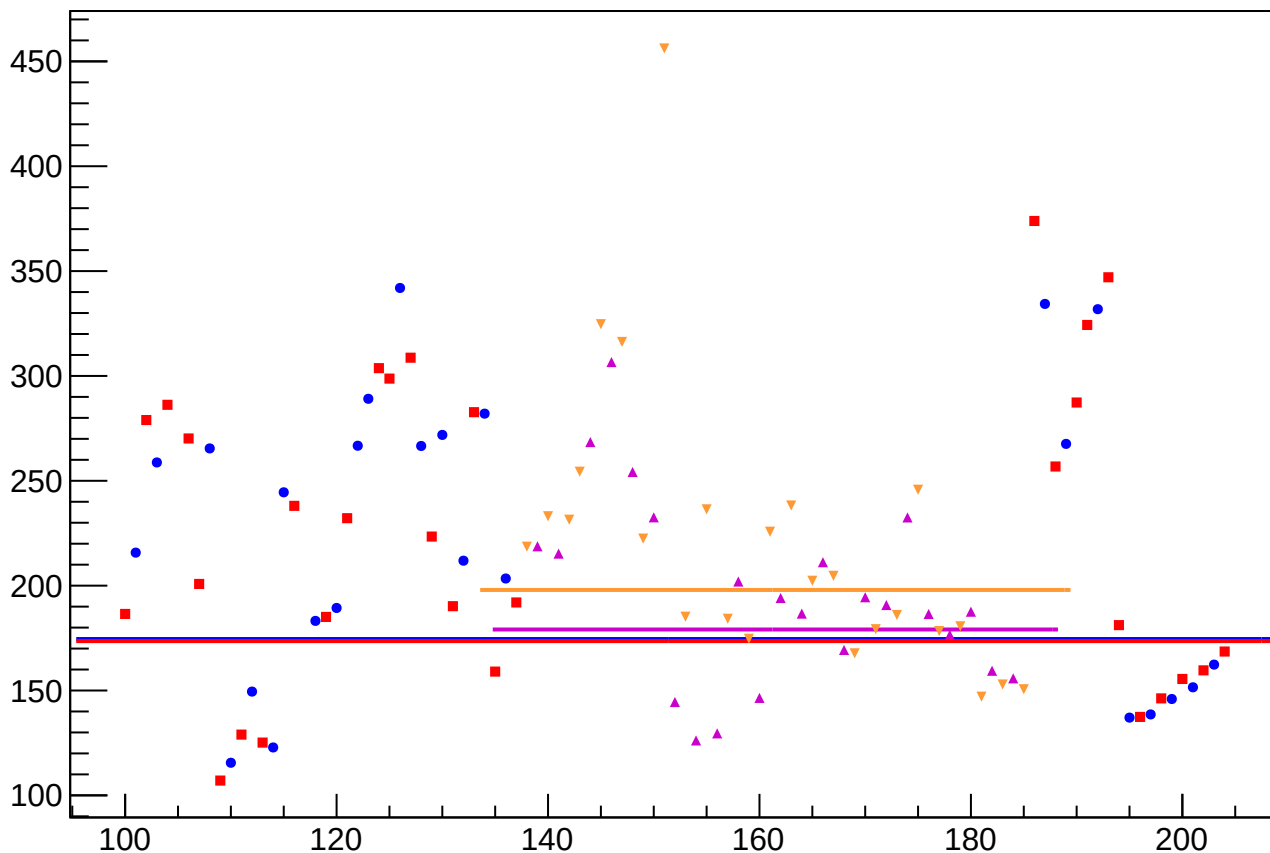
Right: -27.055 ± 36.030 $\chi^2/\text{NDF}: 26.4/54$

In: 5.575 ± 34.209 $\chi^2/\text{NDF}: 22.3/47$

Out: -6.520 ± 34.368 $\chi^2/\text{NDF}: 20.9/54$

All: -0.444 ± 24.246 $\chi^2/\text{NDF}: 43.3/102$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 174.543 $\pm$ 0.037 χ^2 /NDF: 2059817.2/24

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 173.562 $\pm$ 0.035 χ^2 /NDF: 2740921.1/29

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

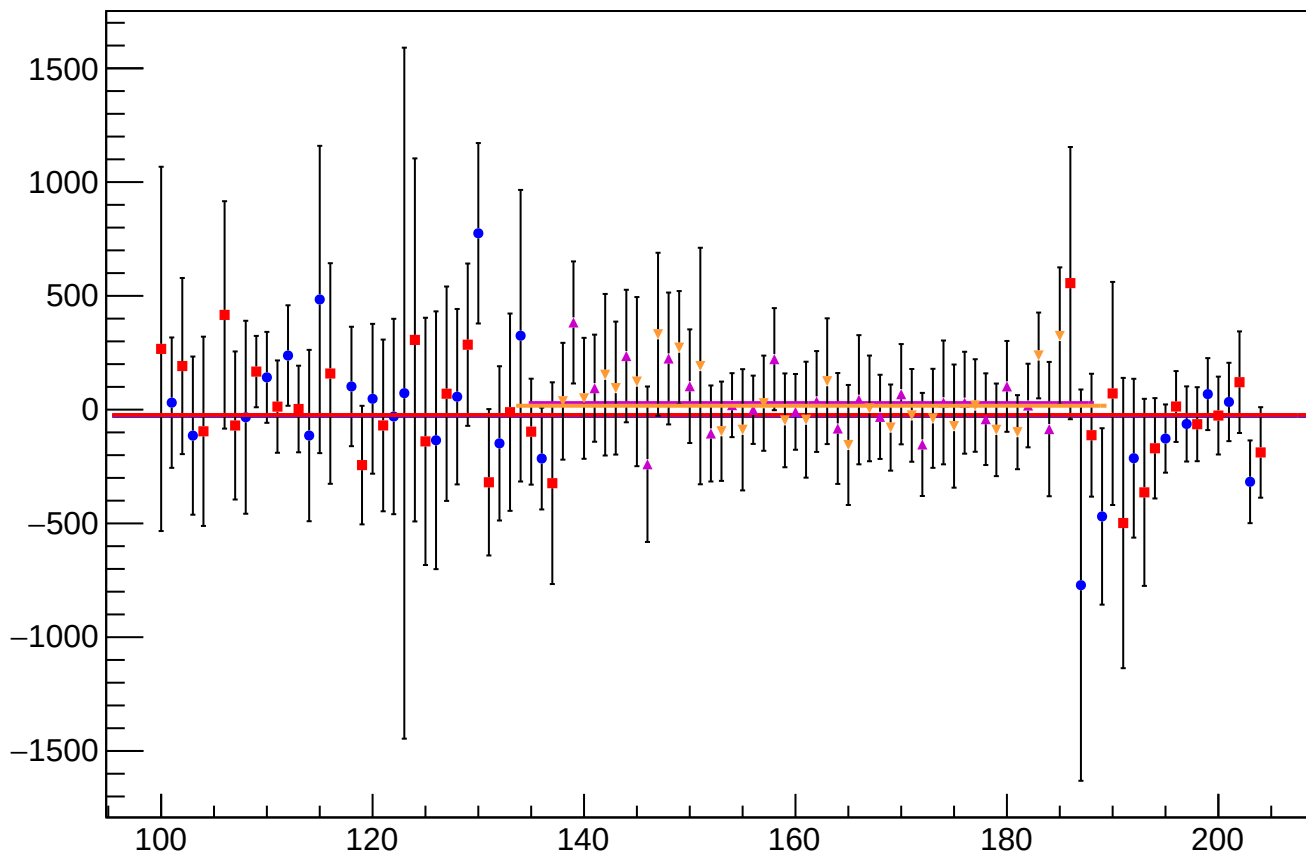
Right: 174.021 $\pm$ 0.025 χ^2 /NDF: 4801107.4/54

In: 177.173 $\pm$ 0.024 χ^2 /NDF:3673545.3/47

Out: 186.138 $\pm$ 0.024 χ^2 /NDF:4767025.2/54

All: 181.635 $\pm$ 0.017 χ^2 /NDF: 8508934.9/102

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -27.225 ± 52.767 $\chi^2/\text{NDF}: 14.4/24$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -23.611 ± 49.378 $\chi^2/\text{NDF}: 10.1/29$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

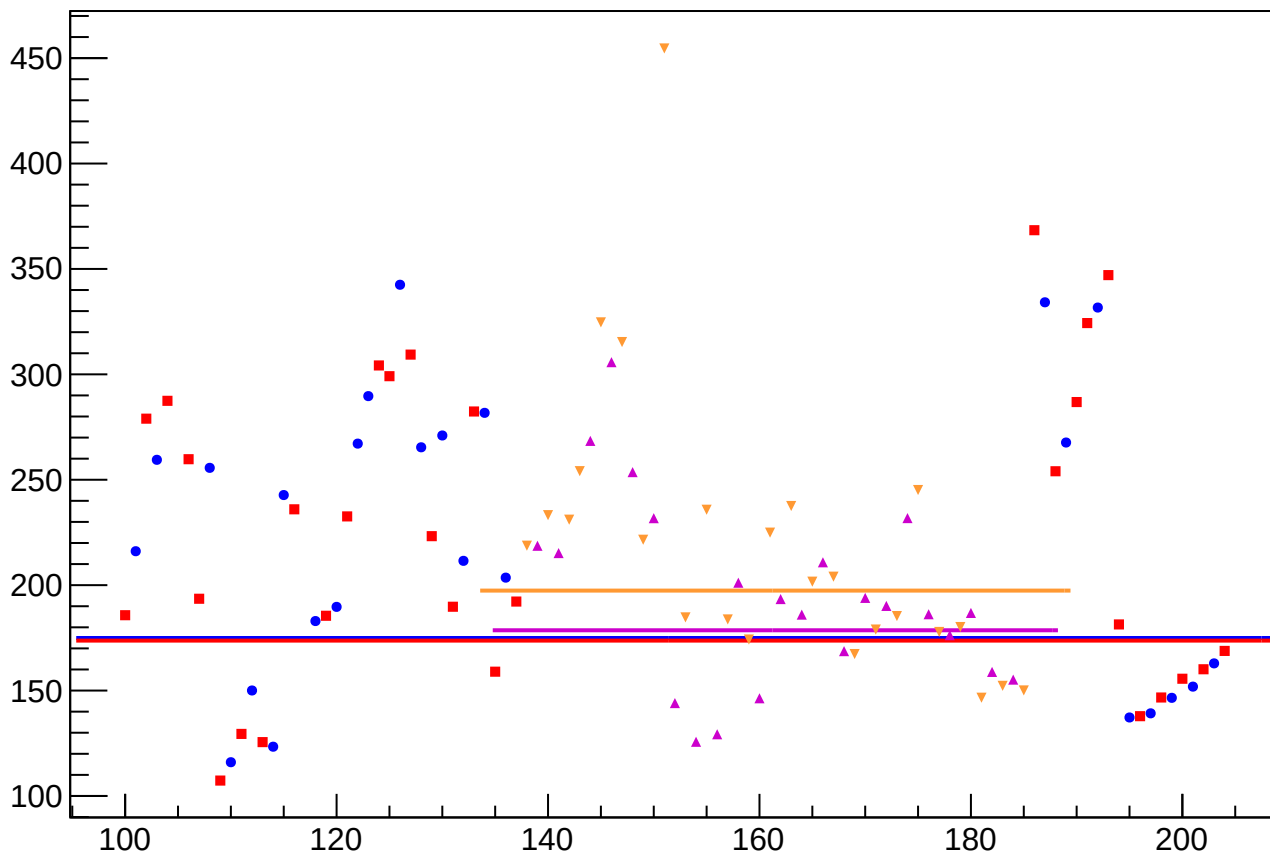
Right: -25.298 ± 36.054 $\chi^2/\text{NDF}: 24.4/54$

In: 5.212 ± 34.178 $\chi^2/\text{NDF}: 21.1/47$

Out: -2.546 ± 34.321 $\chi^2/\text{NDF}: 17.5/54$

All: 1.349 ± 24.218 $\chi^2/\text{NDF}: 38.7/102$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 174.928 $\pm$ 0.037 χ^2 /NDF: 2028689.7/24

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 173.700 $\pm$ 0.035 χ^2 /NDF: 2696718.5/29

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

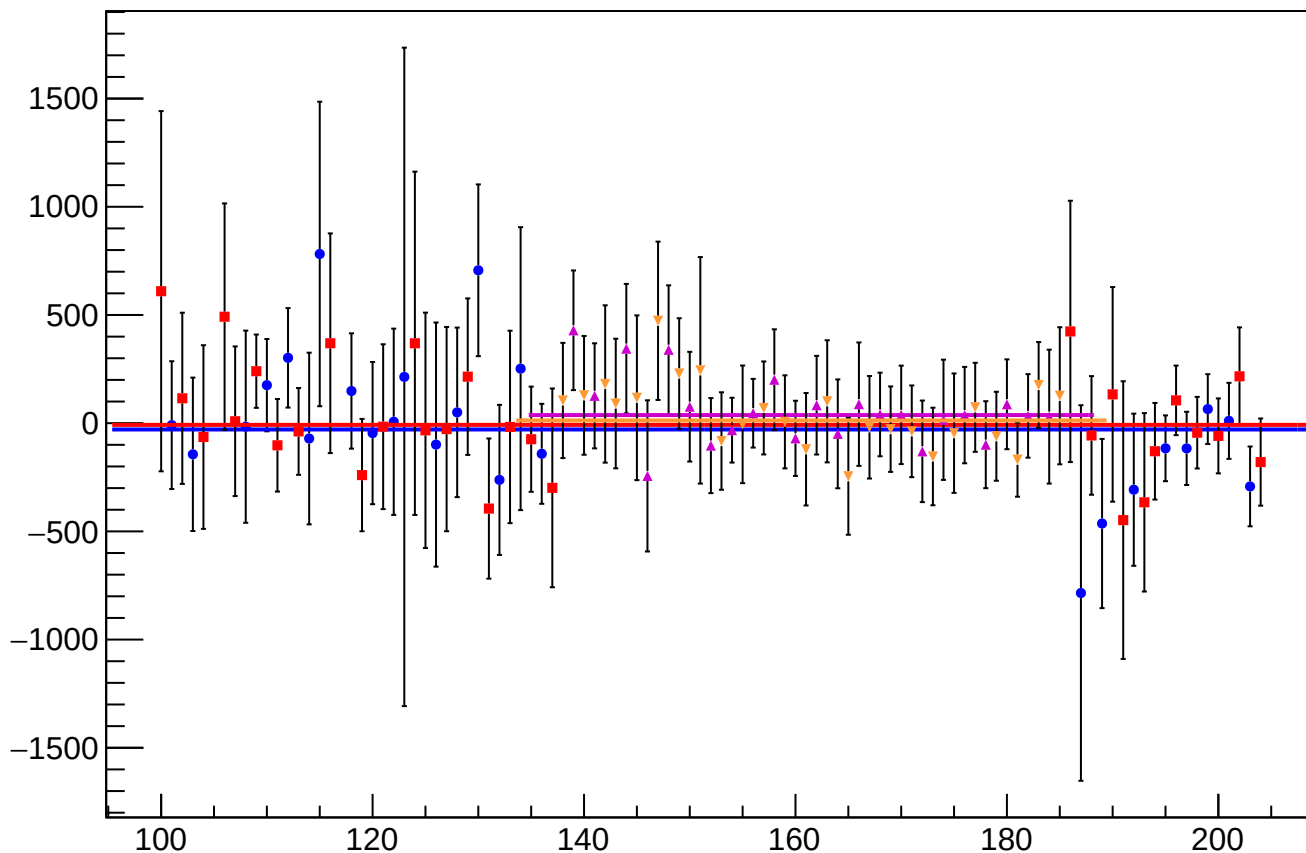
Right: 174.274 $\pm$ 0.025 χ^2 /NDF: 4725985.8/54

In: 177.060 $\pm$ 0.024 χ^2 /NDF:3643312.5/47

Out: 185.962 $\pm$ 0.024 χ^2 /NDF:4715558.8/54

All: 181.492 $\pm$ 0.017 χ^2 /NDF: 8426416.5/102

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -29.104 ± 54.011 χ^2/NDF : 14.9/24

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: -7.777 ± 50.813 χ^2/NDF : 12.3/29

Left In: 37.460 ± 46.479 χ^2/NDF : 7.6/22

Left: 25.762 ± 33.800 χ^2/NDF : 15.3/47

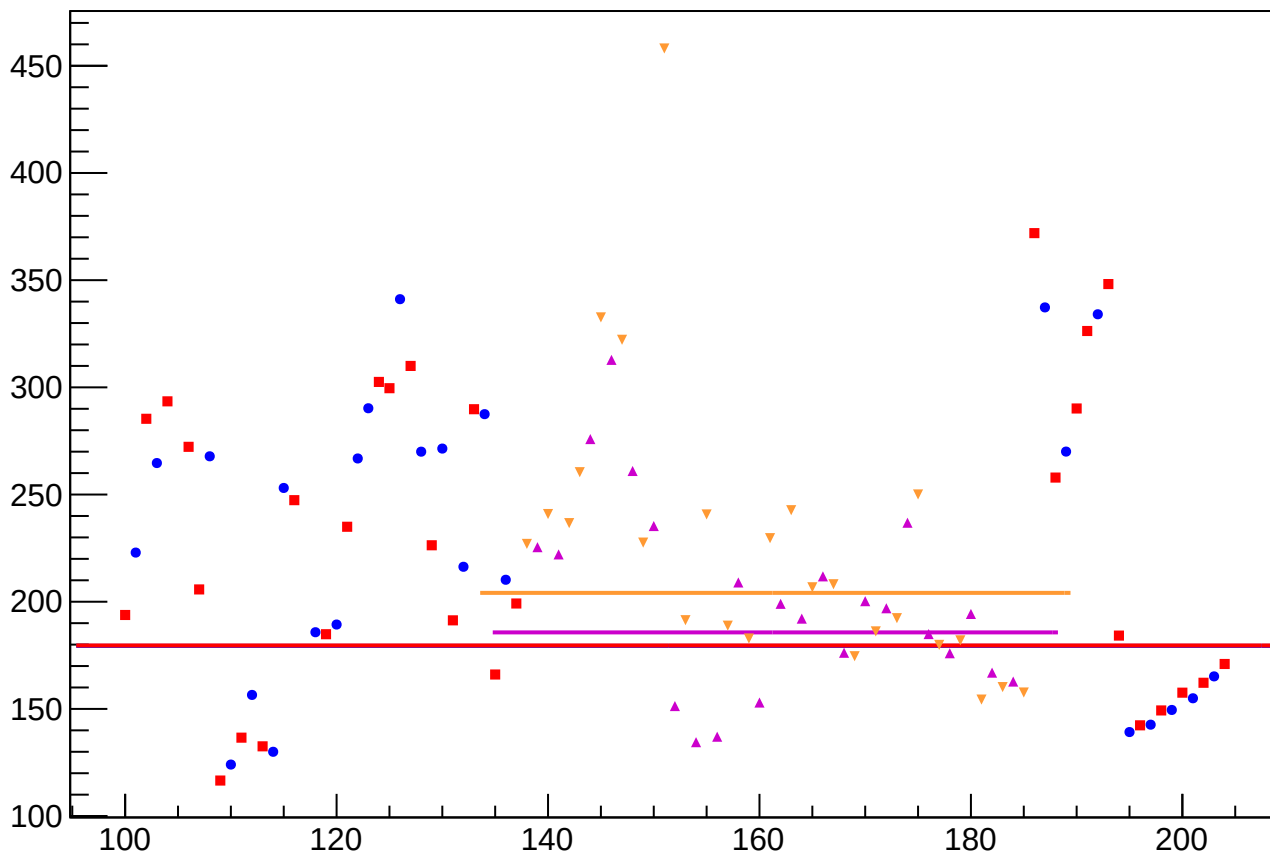
Right: -17.790 ± 37.009 χ^2/NDF : 27.3/54

In: 9.140 ± 35.230 χ^2/NDF : 23.4/47

Out: 2.748 ± 35.362 χ^2/NDF : 19.9/54

All: 5.956 ± 24.958 χ^2/NDF : 43.4/102

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 179.422 $\pm$ 0.038 χ^2 /NDF: 1948673.0/24

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 179.597 $\pm$ 0.036 χ^2 /NDF: 2502906.9/29

Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2 /NDF: 3268347.9/47

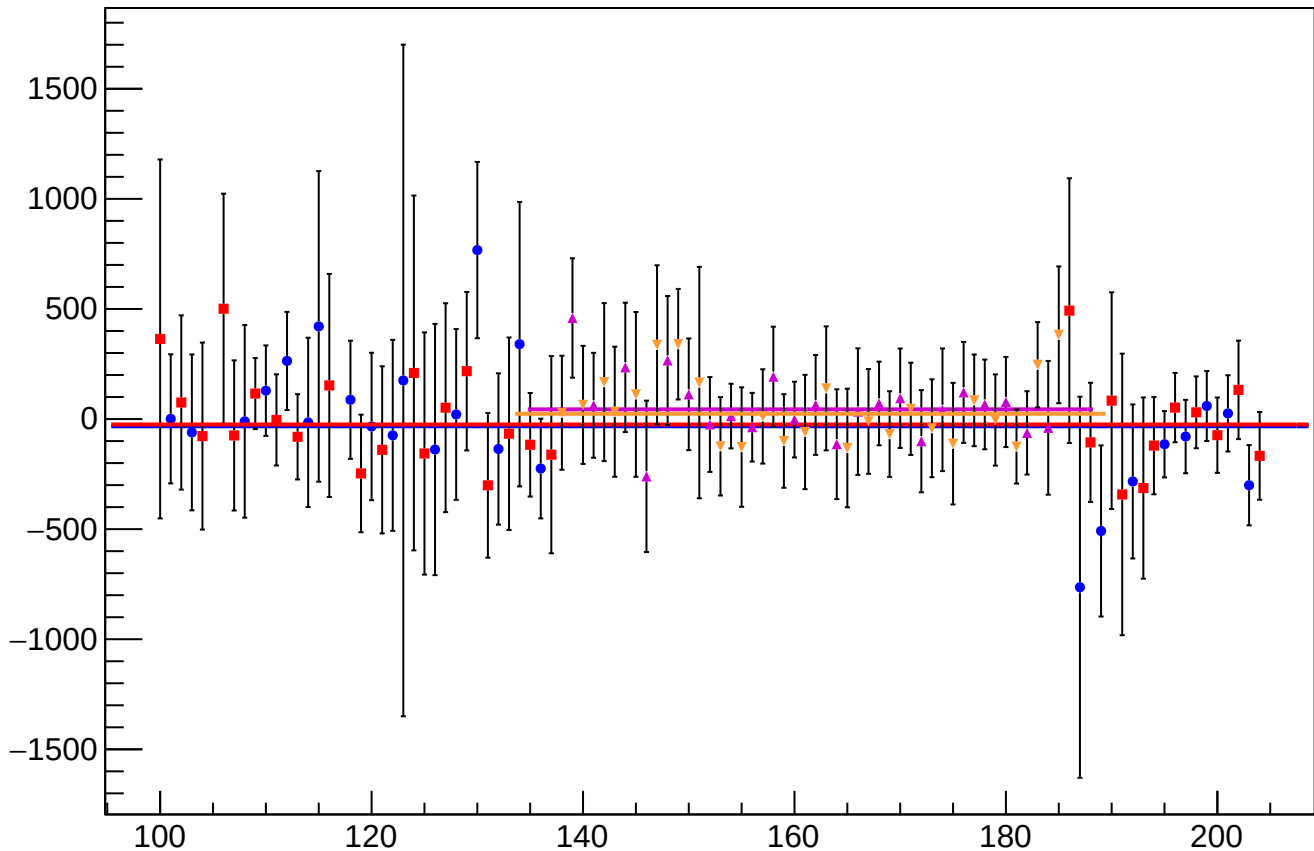
Right: 179.515 $\pm$ 0.026 χ^2 /NDF: 4451591.1/54

In: 183.025 $\pm$ 0.025 χ^2 /NDF:3411934.1/47

Out: 192.250 $\pm$ 0.025 χ^2 /NDF:4415646.3/54

All: 187.620 $\pm$ 0.018 χ^2 /NDF: 7895880.9/102

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -32.722 ± 53.336 χ^2/NDF : 14.0/24

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: -24.689 ± 49.988 χ^2/NDF : 7.9/29

Left In: 43.978 ± 45.981 χ^2/NDF : 6.5/22

Left: 34.506 ± 33.460 χ^2/NDF : 15.1/47

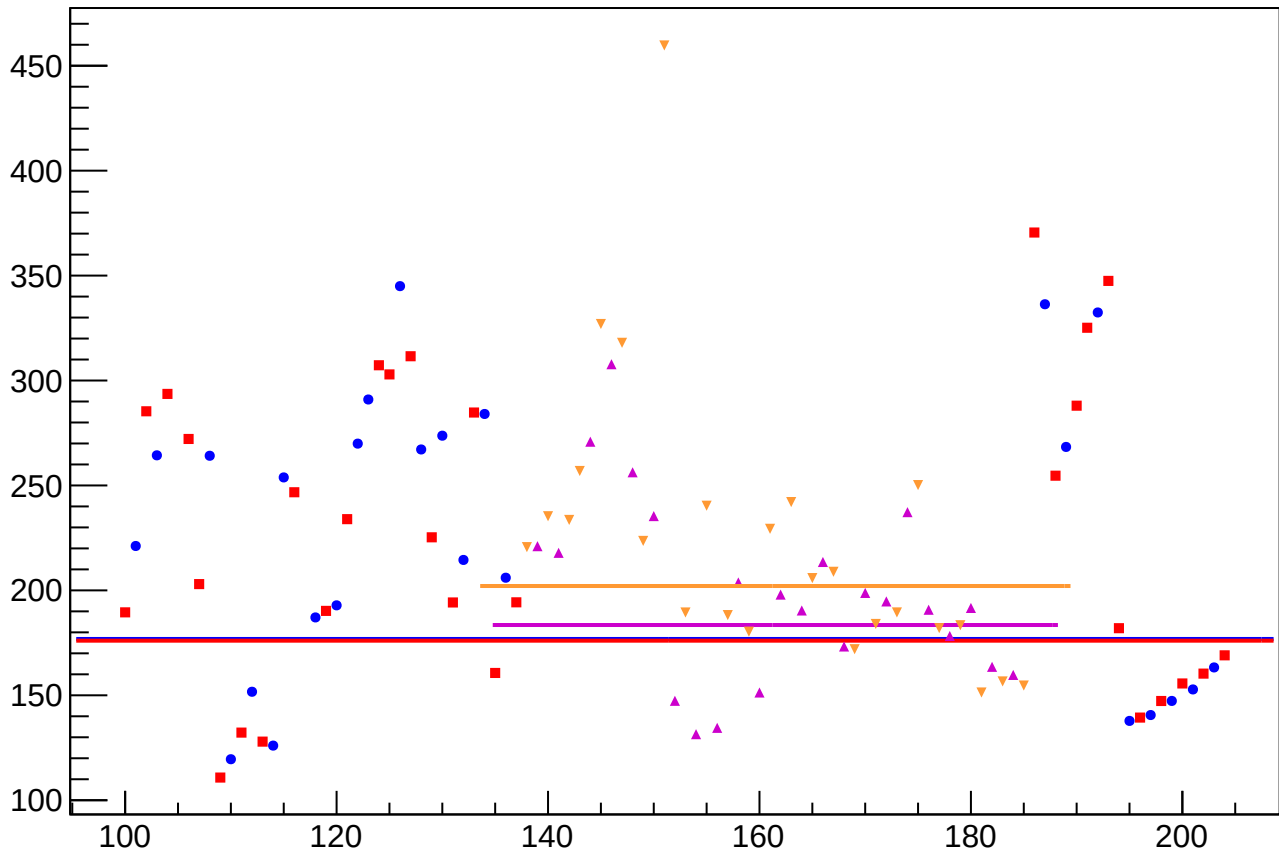
Right: -28.445 ± 36.473 χ^2/NDF : 21.9/54

In: 11.278 ± 34.826 χ^2/NDF : 21.7/47

Out: 0.169 ± 34.913 χ^2/NDF : 16.9/54

All: 5.737 ± 24.656 χ^2/NDF : 38.6/102

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 176.847 ± 0.038 χ^2/NDF : 2031581.8/24

Left Out: 202.081 ± 0.034 χ^2/NDF : 1692787.9/24

Right Out: 176.034 ± 0.035 χ^2/NDF : 2669841.6/29

Left In: 183.498 ± 0.033 χ^2/NDF : 1483383.4/22

Left: 192.240 ± 0.024 χ^2/NDF : 3329846.6/47

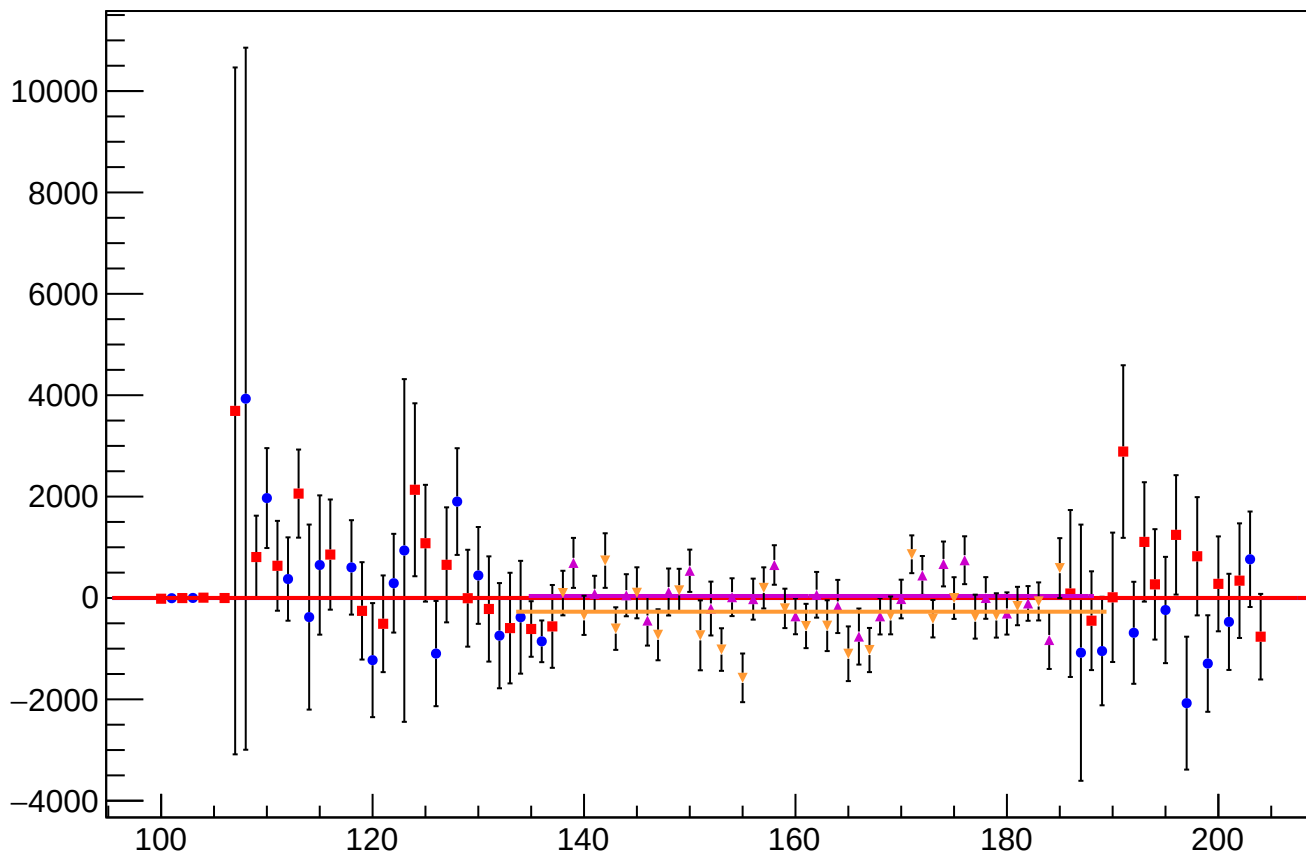
Right: 176.414 ± 0.026 χ^2/NDF : 4701670.8/54

In: 180.663 ± 0.025 χ^2/NDF : 3532805.8/47

Out: 189.375 ± 0.025 χ^2/NDF : 4640748.5/54

All: 185.008 ± 0.017 χ^2/NDF : 8235988.1/102

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.551 ± 2.251 χ^2/NDF : 24.3/24

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.737 ± 2.111 χ^2/NDF : 25.8/29

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

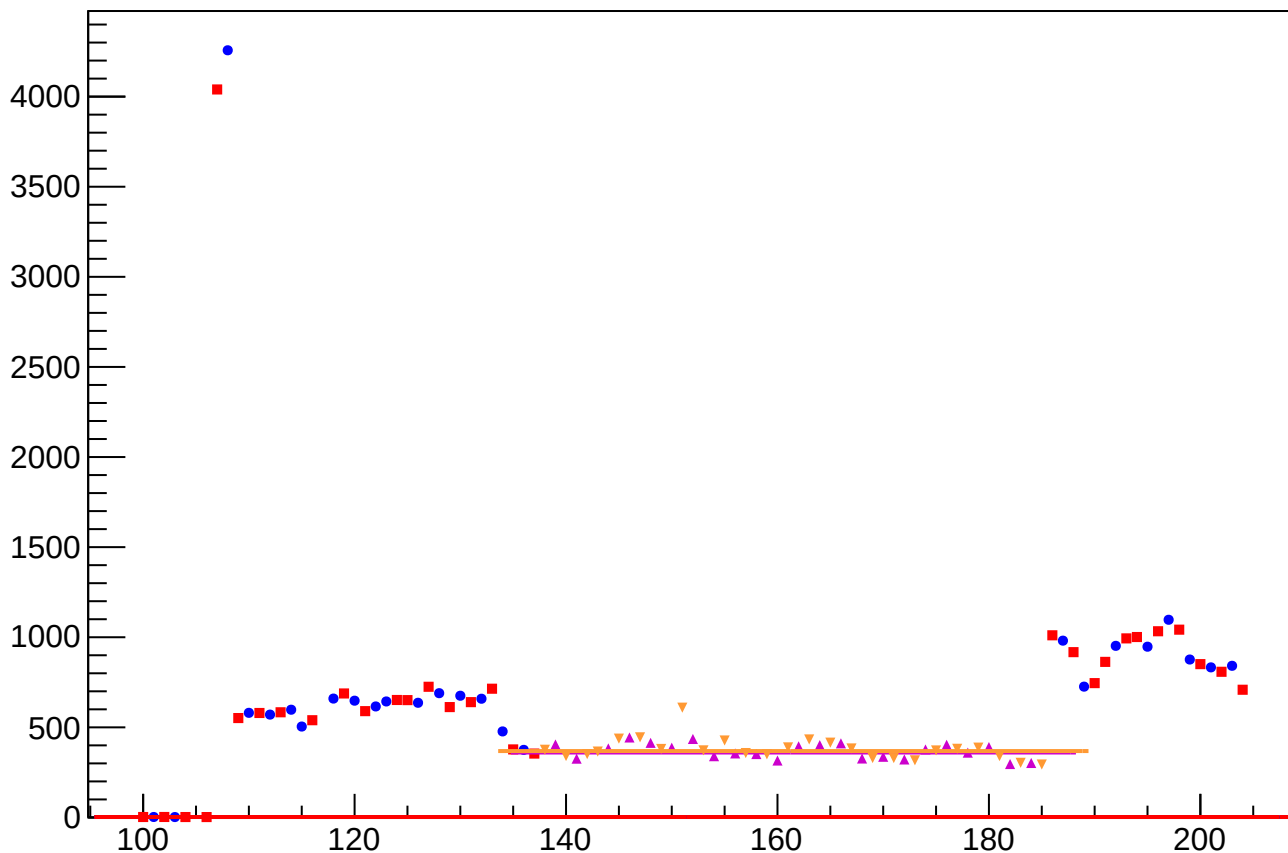
Right: -0.333 ± 1.540 χ^2/NDF : 50.7/54

In: -1.524 ± 2.251 χ^2/NDF : 44.8/47

Out: 0.577 ± 2.110 χ^2/NDF : 73.6/54

All: -0.406 ± 1.540 χ^2/NDF : 118.9/102

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.487+/-0.002 χ^2/NDF : 21628516.7/24

Left Out: 368.397+/-0.061 χ^2/NDF :622466.1/24

Right Out: 2.471+/-0.001 χ^2/NDF : 25080469.7/29

Left In: 360.408+/-0.062 χ^2/NDF :417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

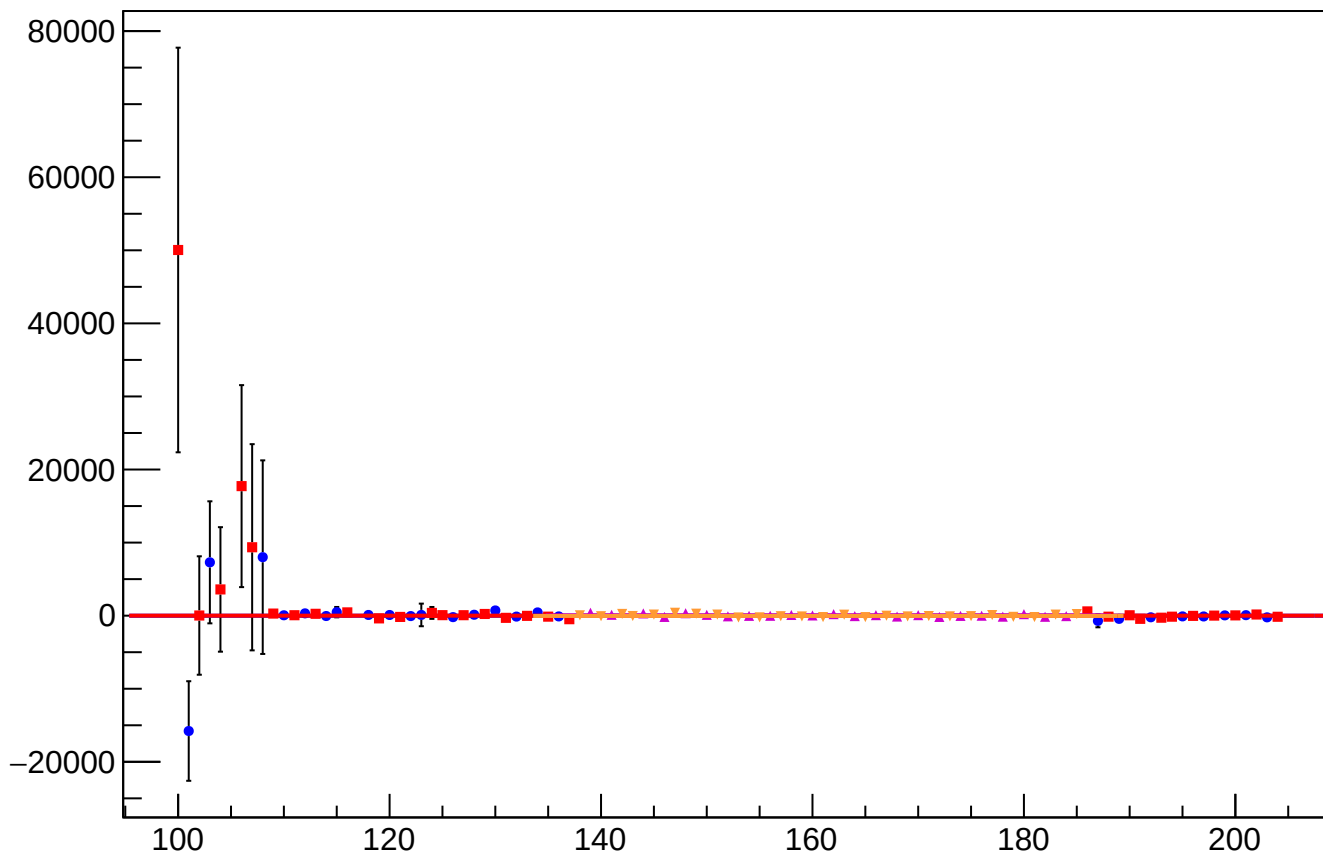
Right: 2.479+/-0.001 χ^2/NDF : 46709040.3/54

In: 2.722+/-0.002 χ^2/NDF :55284043.9/47

Out: 2.687+/-0.001 χ^2/NDF :61090322.2/54

All: 2.703+/-0.001 χ^2/NDF : 116374636.7/102

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -8.692 ± 58.819 $\chi^2/\text{NDF}: 17.7/24$

Left Out: -38.013 ± 49.628 $\chi^2/\text{NDF}: 9.3/24$

Right Out: 1.175 ± 55.998 $\chi^2/\text{NDF}: 17.6/29$

Left In: 28.205 ± 48.167 $\chi^2/\text{NDF}: 9.2/22$

Left: -3.915 ± 34.564 $\chi^2/\text{NDF}: 19.4/47$

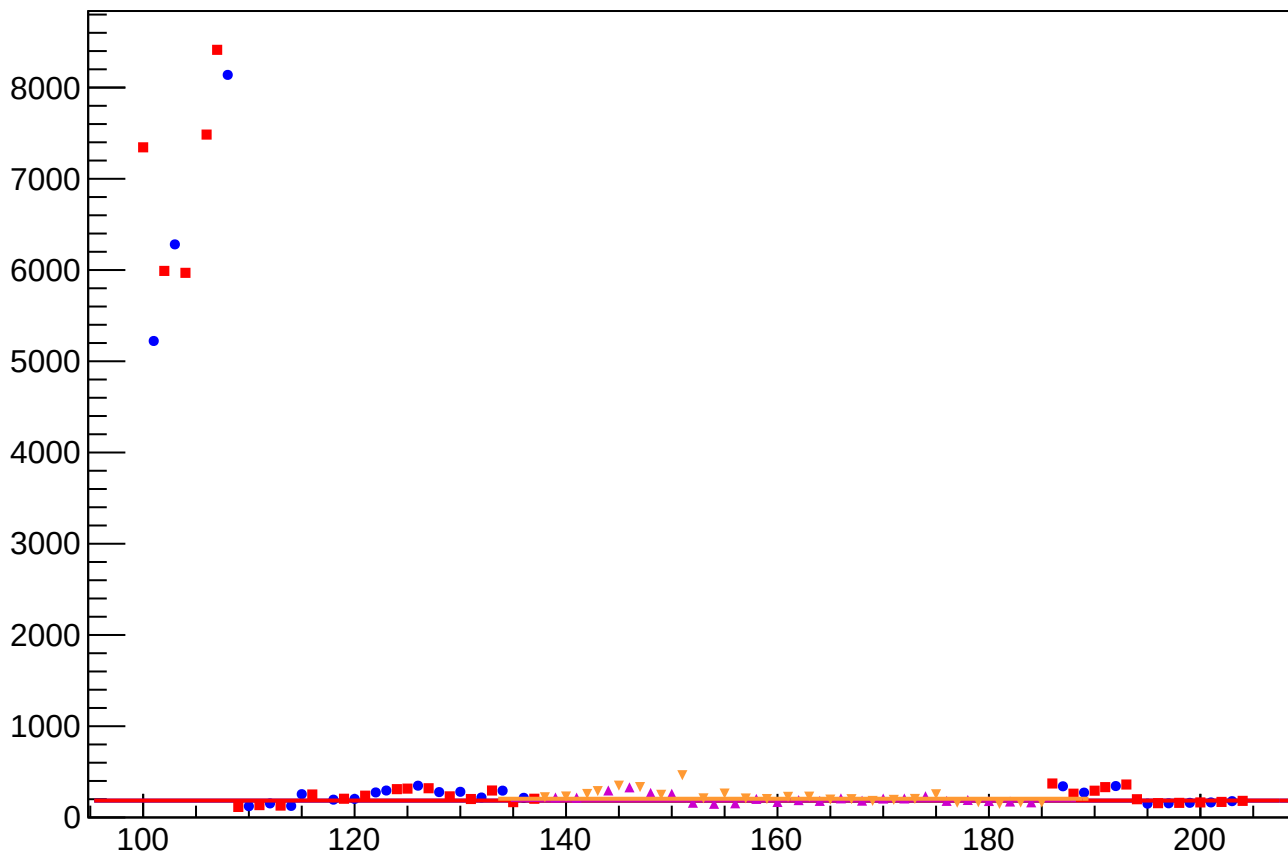
Right: -3.516 ± 40.557 $\chi^2/\text{NDF}: 35.3/54$

In: 13.394 ± 37.266 $\chi^2/\text{NDF}: 27.1/47$

Out: -20.774 ± 37.141 $\chi^2/\text{NDF}: 27.2/54$

All: -3.747 ± 26.307 $\chi^2/\text{NDF}: 54.7/102$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 184.246 $\pm$ 0.042 χ^2 /NDF: 4482517.4/24

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 185.319 $\pm$ 0.040 χ^2 /NDF: 5330699.7/29

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

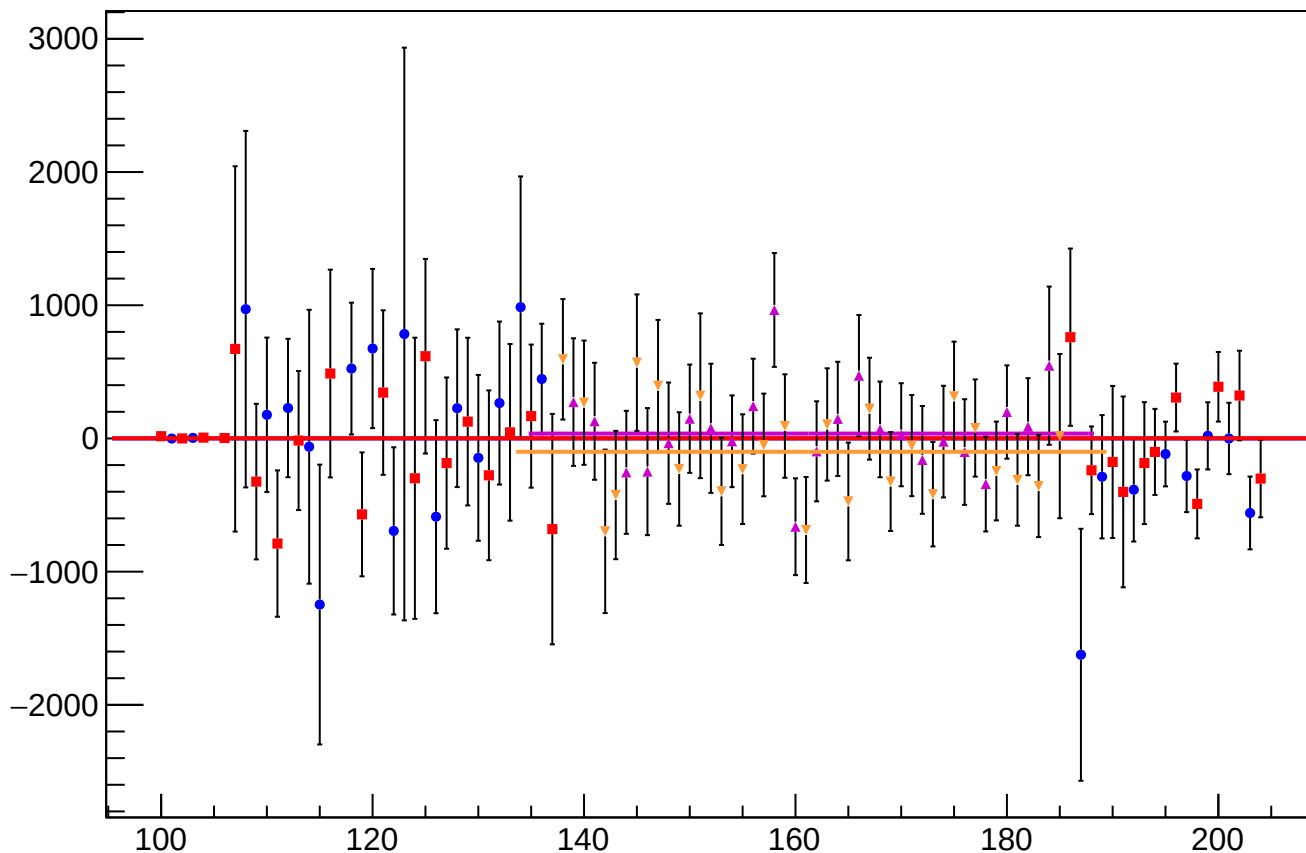
Right: 184.809 $\pm$ 0.029 χ^2 /NDF: 9813565.8/54

In: 189.728 $\pm$ 0.026 χ^2 /NDF:5683710.1/47

Out: 196.357 $\pm$ 0.026 χ^2 /NDF:7425491.7/54

All: 193.054 $\pm$ 0.019 χ^2 /NDF: 13140947.2/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.196 ± 1.736 χ^2/NDF : 19.9/24

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.319 ± 1.622 χ^2/NDF : 21.2/29

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

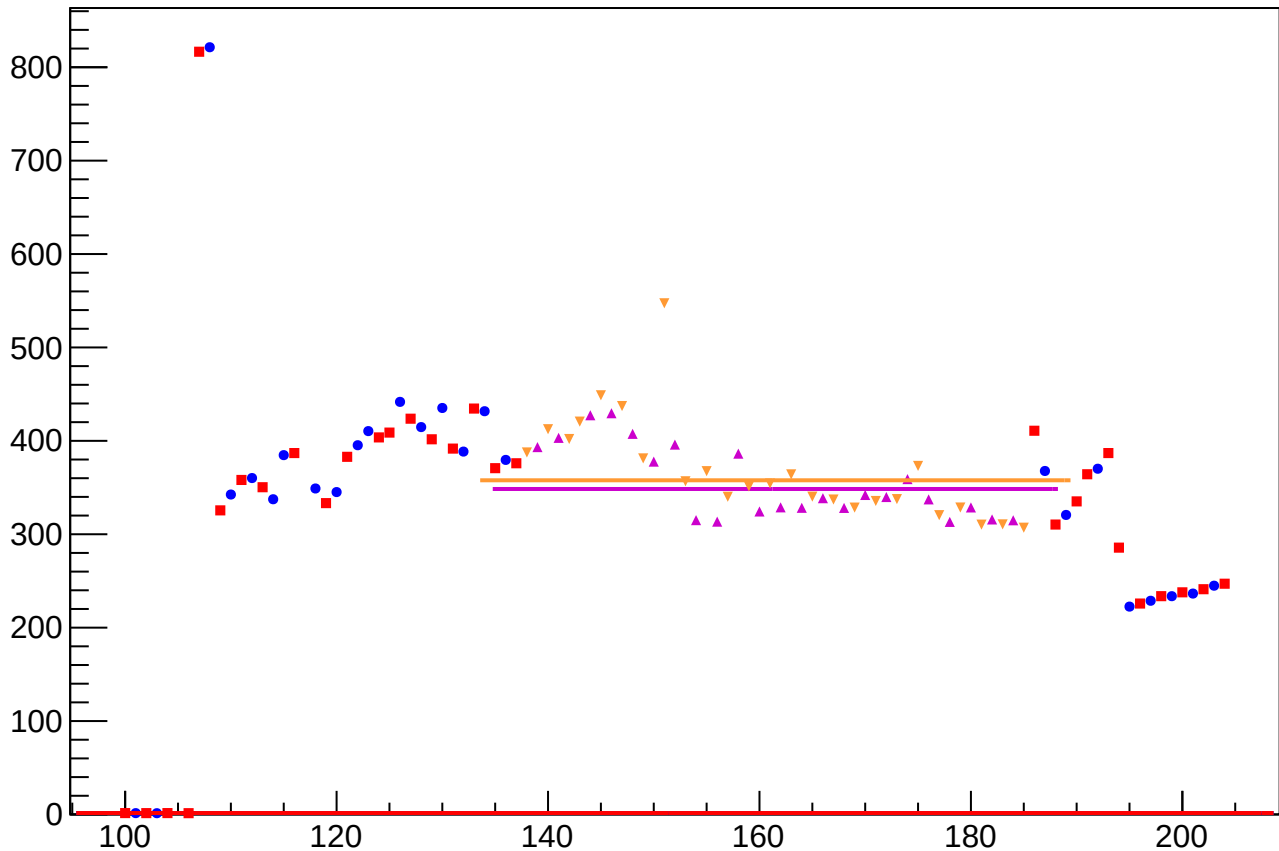
Right: 0.613 ± 1.185 χ^2/NDF : 41.4/54

In: -0.181 ± 1.736 χ^2/NDF : 33.6/47

Out: 1.281 ± 1.622 χ^2/NDF : 38.3/54

All: 0.600 ± 1.185 χ^2/NDF : 72.3/102

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.517 $\pm$ 0.001 χ^2 /NDF: 21846427.2/24

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.518 $\pm$ 0.001 χ^2 /NDF: 24767550.0/29

Left In: 348.464 $\pm$ 0.060 χ^2 /NDF: 360425.7/22

Left: 353.145 $\pm$ 0.042 χ^2 /NDF: 919701.2/47

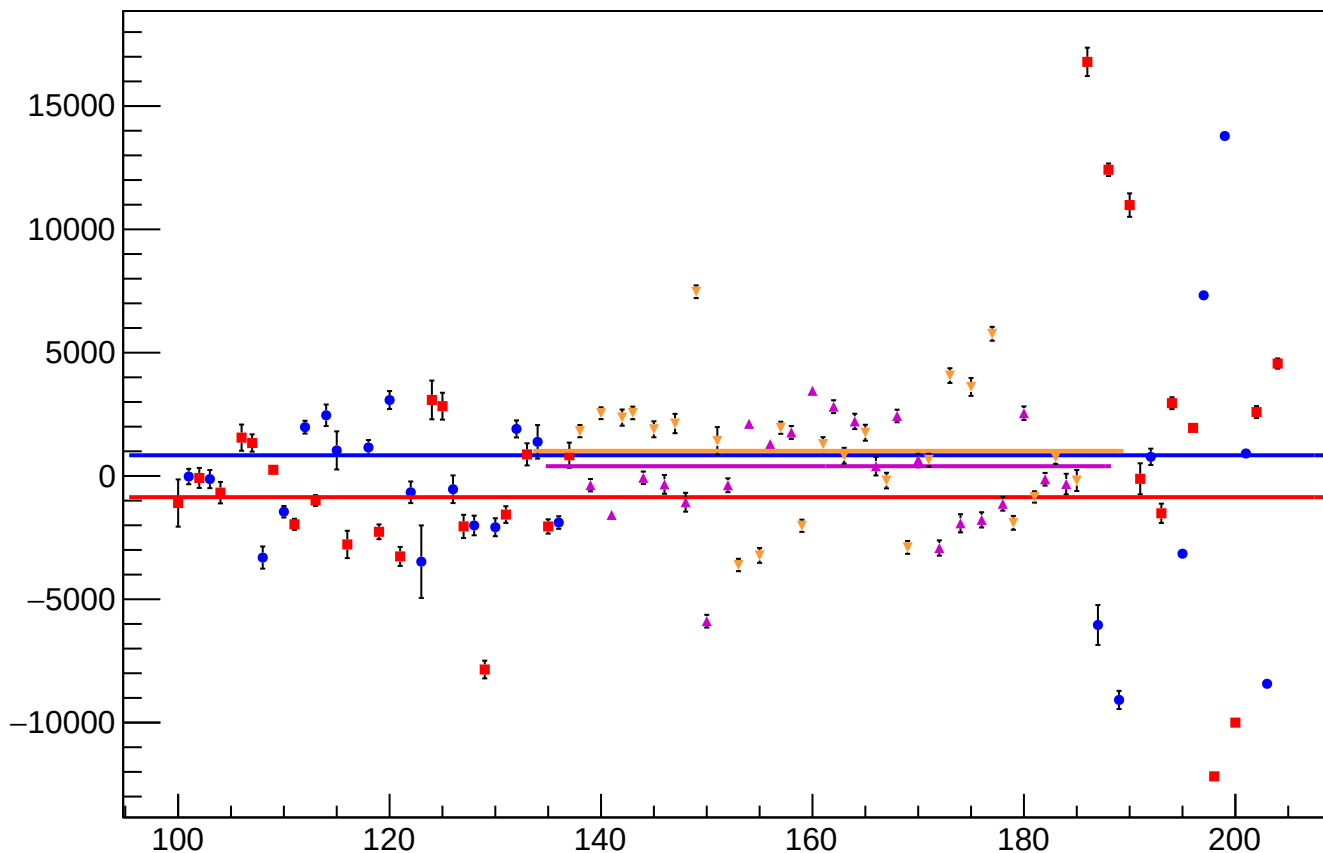
Right: 1.518 $\pm$ 0.001 χ^2 /NDF: 46613977.6/54

In: 1.663 $\pm$ 0.001 χ^2 /NDF: 55769827.3/47

Out: 1.650 $\pm$ 0.001 χ^2 /NDF: 61113396.1/54

All: 1.656 $\pm$ 0.001 χ^2 /NDF: 116883279.5/102

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 839.043+/-58.358 χ^2/NDF : 10605.6/24

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: -859.563+/-54.178 χ^2/NDF : 12631.9/29

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

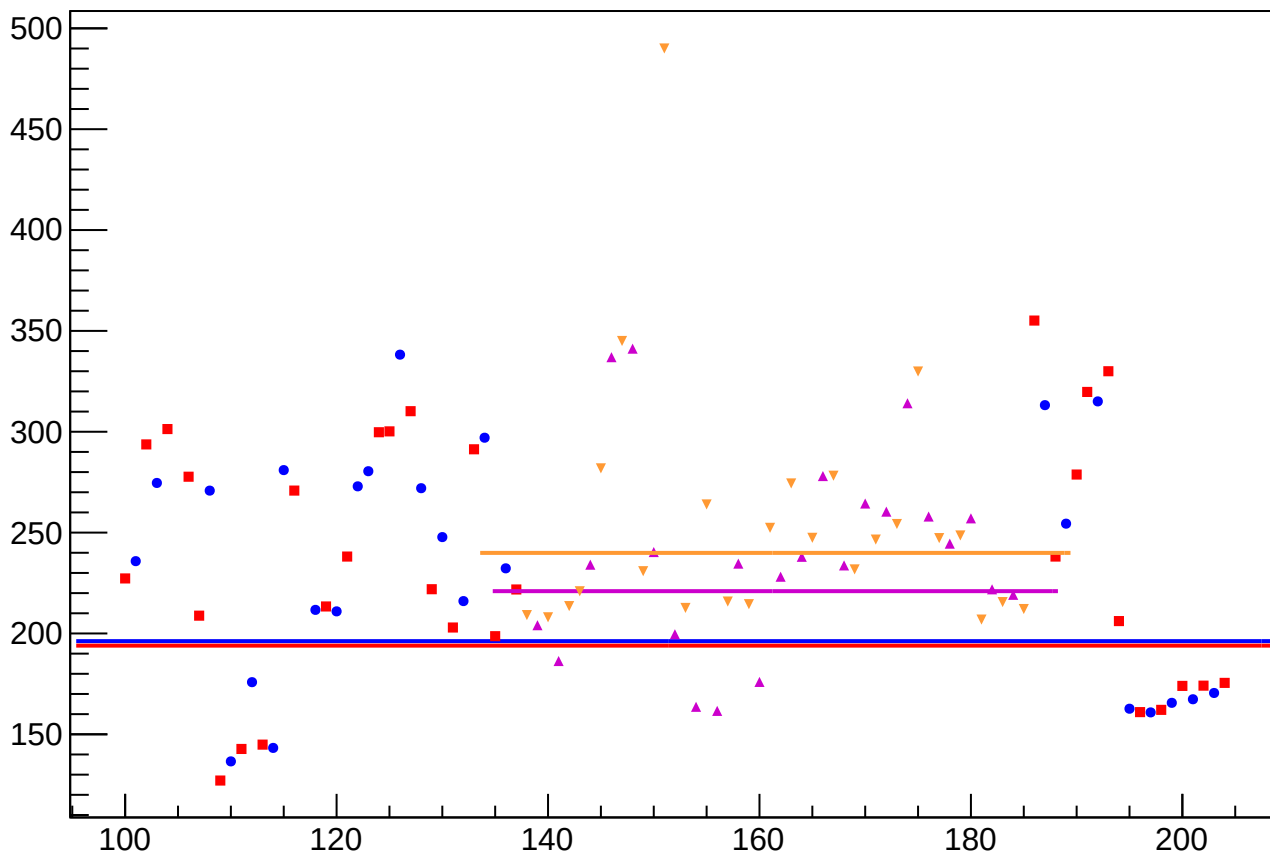
Right: -73.271+/-39.705 χ^2/NDF : 23692.6/54

In: 605.092+/-40.060 χ^2/NDF : 12217.0/47

Out: 25.463+/-39.400 χ^2/NDF : 15508.4/54

All: 310.463+/-28.090 χ^2/NDF : 27831.9/102

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 196.193 ± 0.041 χ^2/NDF : 1412130.0/24

Left Out: 239.942 ± 0.041 χ^2/NDF : 1000770.0/24

Right Out: 193.969 ± 0.038 χ^2/NDF : 1978721.4/29

Left In: 220.972 ± 0.039 χ^2/NDF : 1327680.6/22

Left: 230.067 ± 0.028 χ^2/NDF : 2442154.9/47

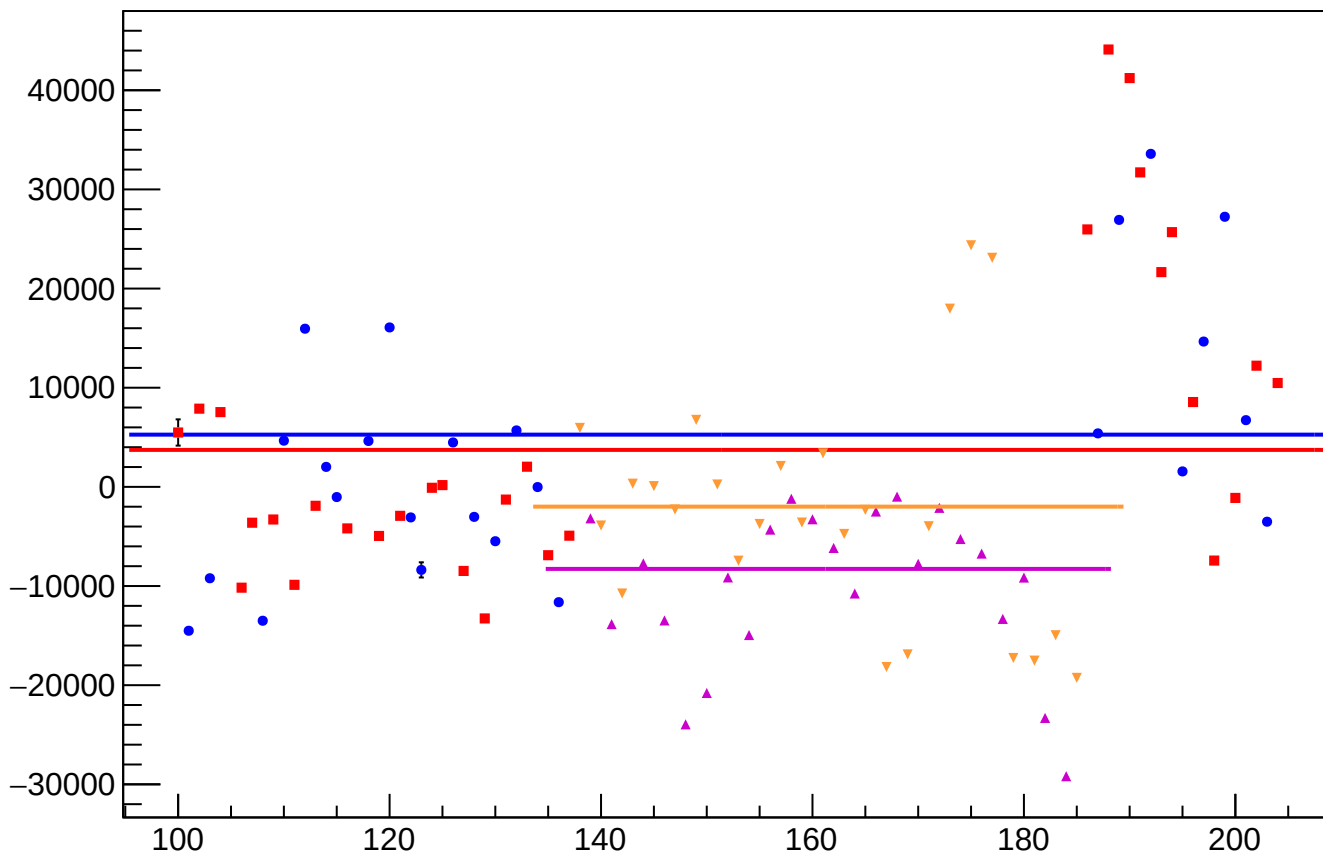
Right: 194.999 ± 0.028 χ^2/NDF : 3392410.6/54

In: 209.295 ± 0.028 χ^2/NDF : 2930472.0/47

Out: 215.628 ± 0.028 χ^2/NDF : 3657944.9/54

All: 212.514 ± 0.020 χ^2/NDF : 6613823.1/102

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5267.696+/-44.348 χ^2/NDF : 86495.0/24

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 3728.782+/-41.326 χ^2/NDF : 132938.1/29

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

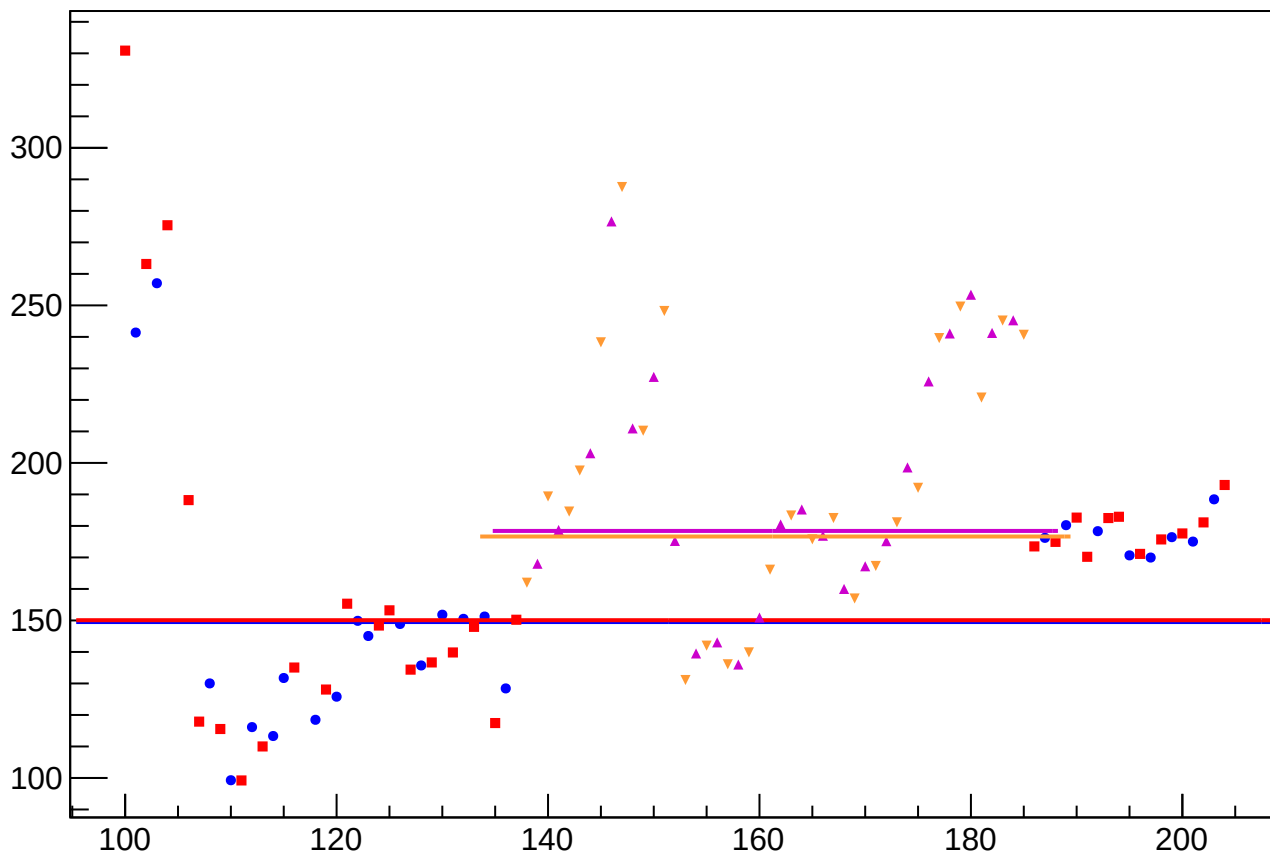
Right: 4444.025+/-30.234 χ^2/NDF : 220077.5/54

In: -1509.965+/-31.342 χ^2/NDF : 156028.3/47

Out: 943.643+/-29.604 χ^2/NDF : 206033.6/54

All: -213.216+/-21.521 χ^2/NDF : 365300.8/100

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 149.494+/-0.031 χ^2/NDF : 1064776.5/24

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 150.078+/-0.029 χ^2/NDF : 1426076.3/29

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

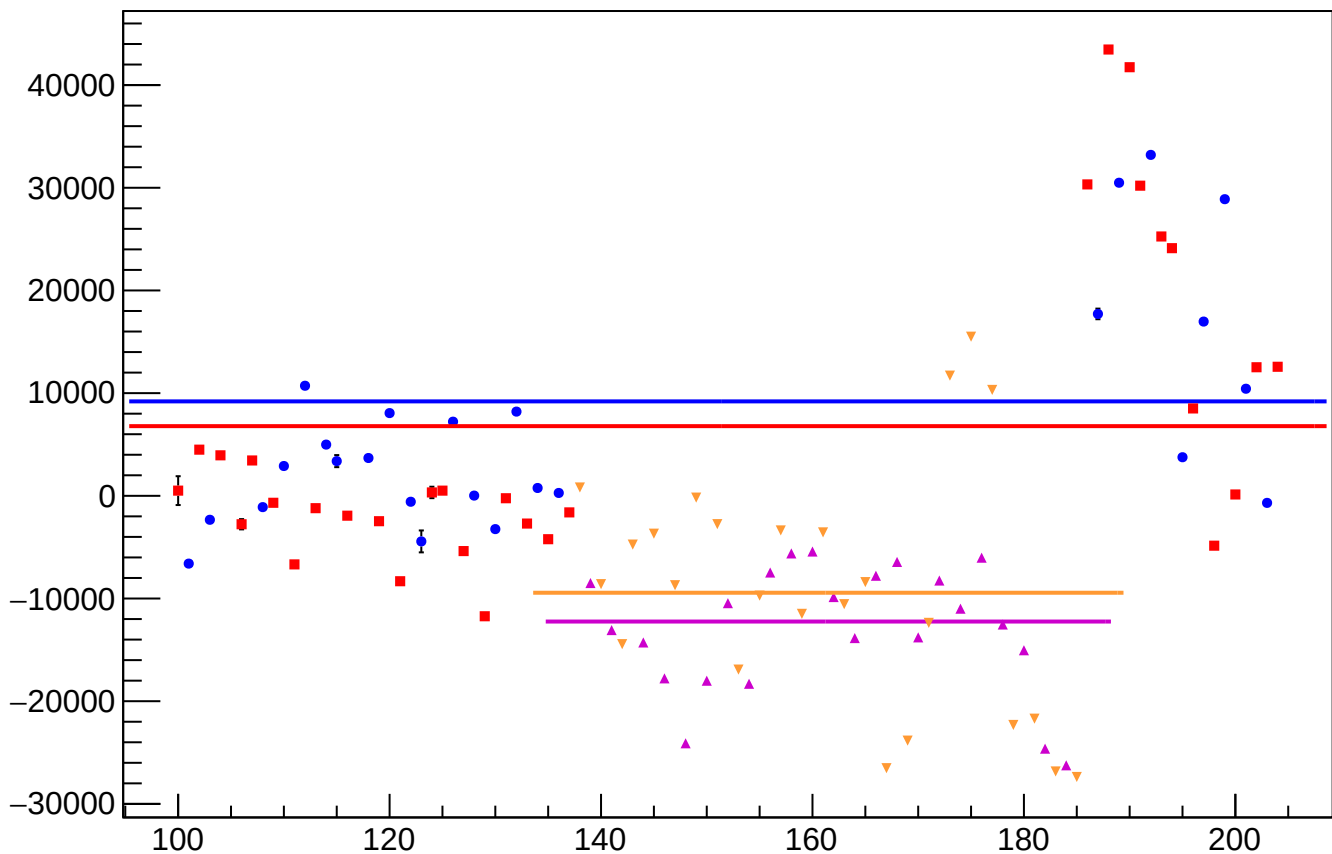
Right: 149.807+/-0.021 χ^2/NDF : 2491038.7/54

In: 163.969+/-0.022 χ^2/NDF :2784198.7/47

Out: 163.011+/-0.021 χ^2/NDF :3379399.9/54

All: 163.462+/-0.015 χ^2/NDF : 6164586.9/102

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9197.469+/-51.213

χ^2/NDF : 48378.8/24

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 7890.381+/-34.658

χ^2/NDF : 152505.5/54

Right Out: 6785.932+/-47.076

χ^2/NDF : 102925.0/29

In: -3150.561+/-33.350

χ^2/NDF : 165932.5/47

Out: -1595.768+/-32.729

χ^2/NDF : 226503.1/54

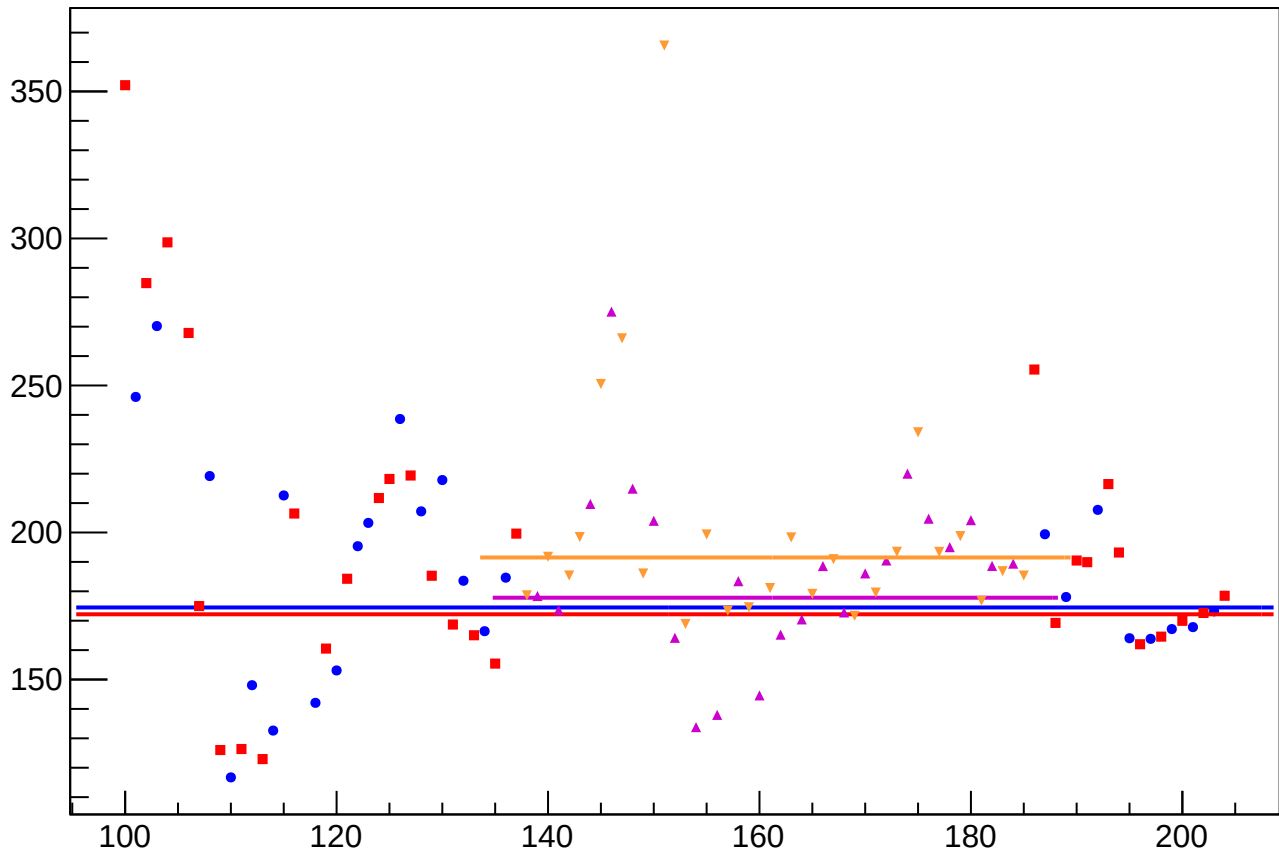
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -2358.562+/-23.359

χ^2/NDF : 393542.7/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.506 ± 0.036 $\chi^2/\text{NDF}: 758144.9/24$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 172.183 ± 0.033 $\chi^2/\text{NDF}: 1125496.9/29$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

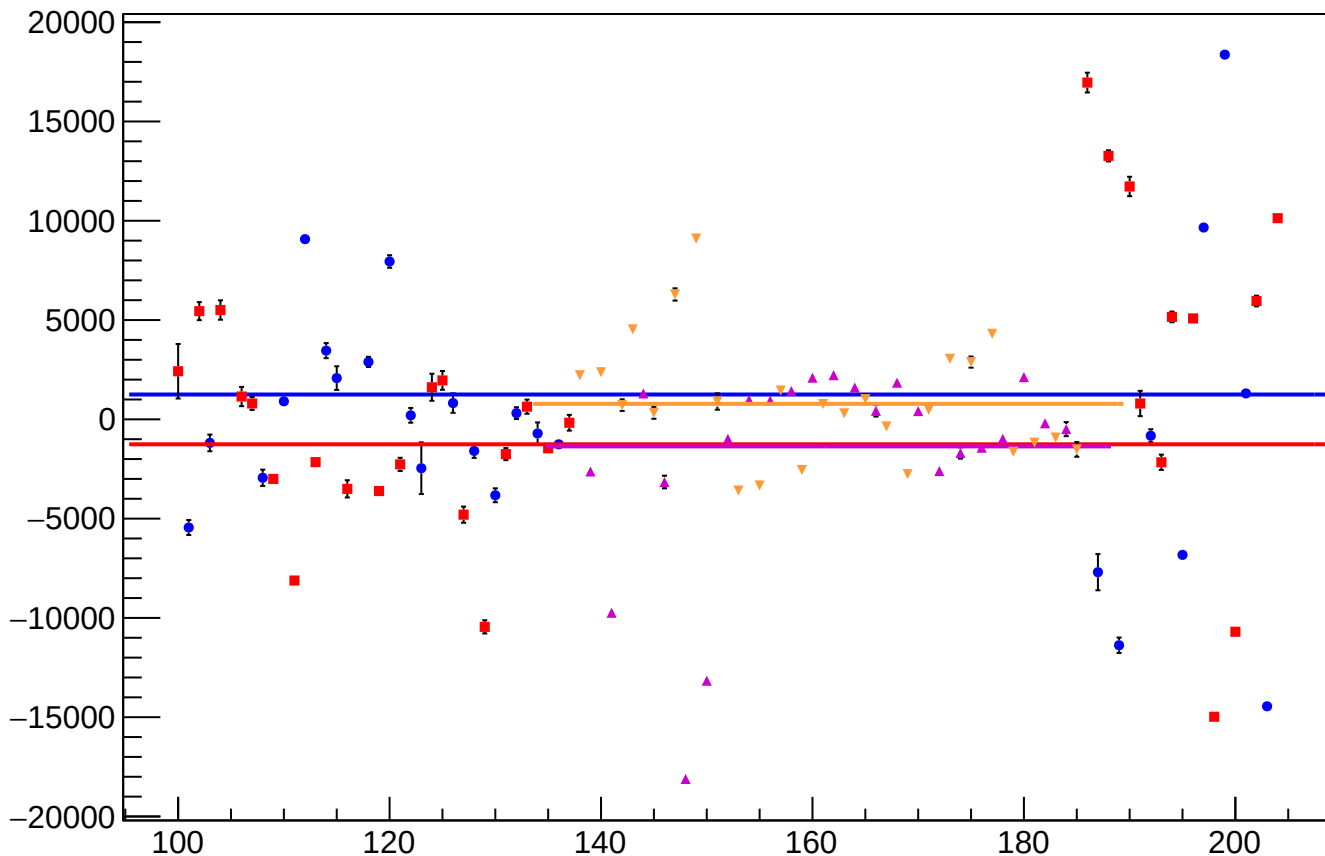
Right: 173.247 ± 0.025 $\chi^2/\text{NDF}: 1885870.9/54$

In: 176.415 ± 0.024 $\chi^2/\text{NDF}: 1625468.0/47$

Out: 182.167 ± 0.023 $\chi^2/\text{NDF}: 2026844.3/54$

All: 179.345 ± 0.017 $\chi^2/\text{NDF}: 3682611.2/102$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1250.674+/-57.546 χ^2/NDF : 19635.7/24

Left Out: 779.983+/-47.457 χ^2/NDF :4260.8/24

Right Out: -1256.803+/-53.308 χ^2/NDF : 18889.4/29

Left In: -1363.043+/-45.807 χ^2/NDF :11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

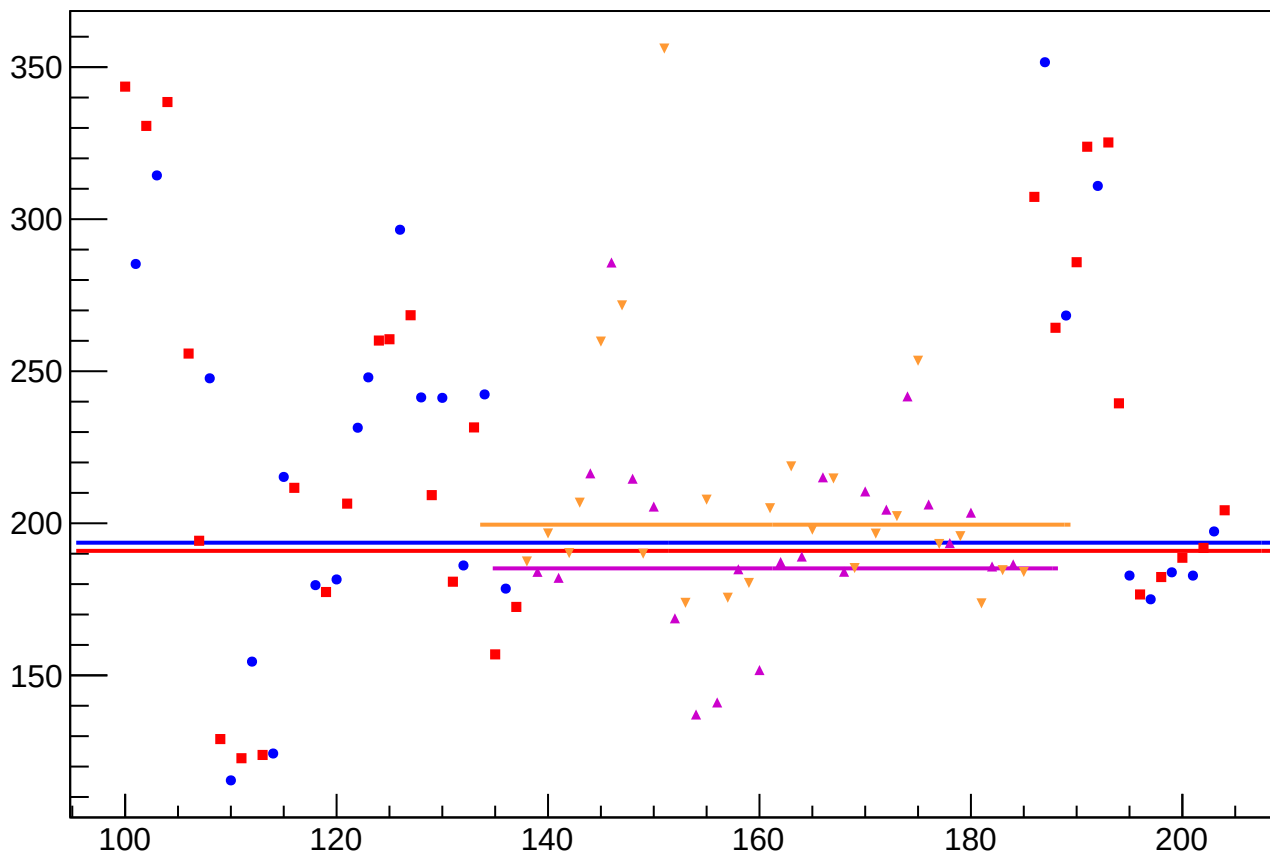
Right: -98.801+/-39.107 χ^2/NDF : 39546.9/54

In: -349.291+/-35.839 χ^2/NDF :32531.4/47

Out: -120.553+/-35.446 χ^2/NDF :23964.6/54

All: -233.661+/-25.202 χ^2/NDF : 56516.6/102

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.619 ± 0.041 $\chi^2/\text{NDF}: 1406821.6/24$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 190.932 ± 0.038 $\chi^2/\text{NDF}: 2134116.7/29$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

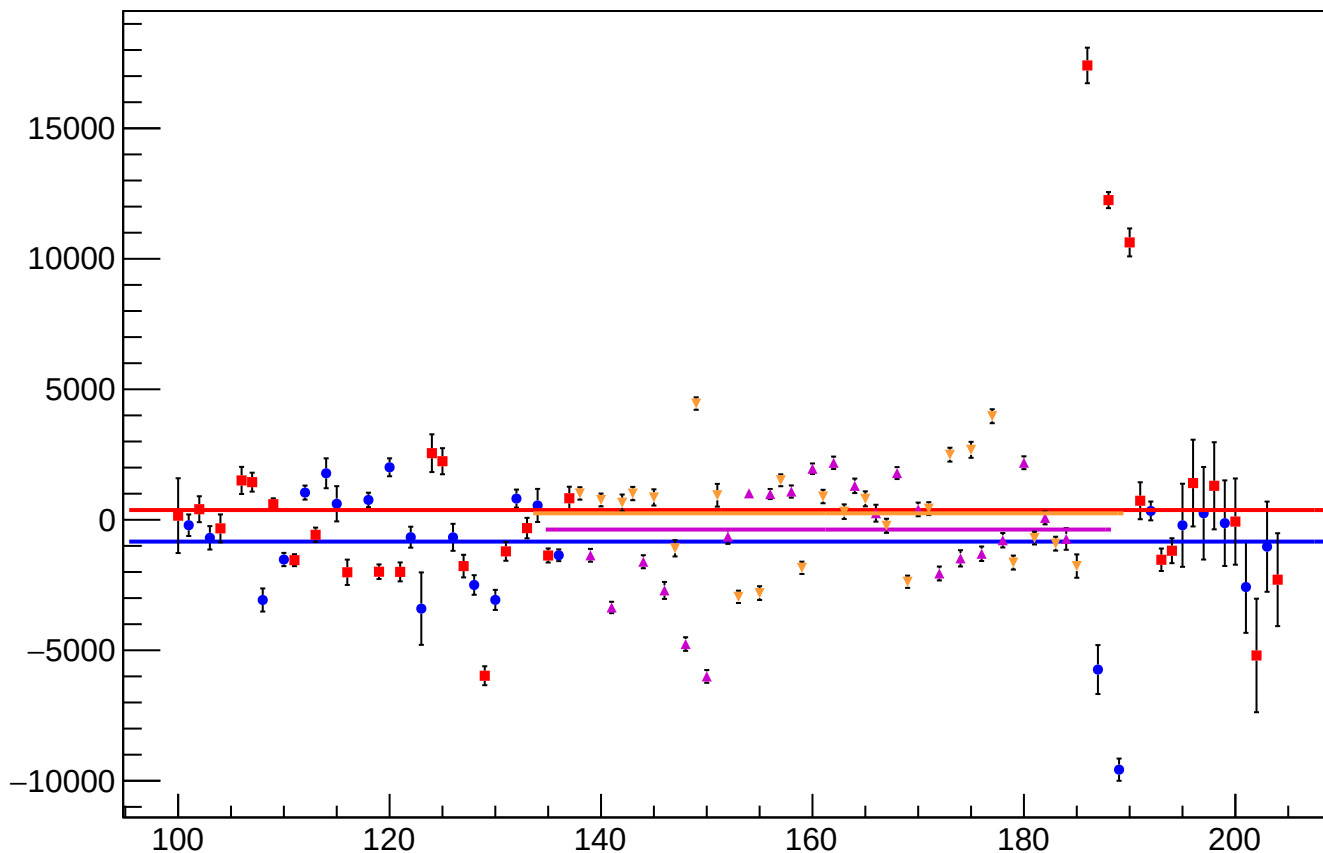
Right: 192.173 ± 0.028 $\chi^2/\text{NDF}: 3543286.1/54$

In: 188.447 ± 0.025 $\chi^2/\text{NDF}: 2315962.7/47$

Out: 195.738 ± 0.025 $\chi^2/\text{NDF}: 2892614.0/54$

All: 192.133 ± 0.018 $\chi^2/\text{NDF}: 5250411.6/102$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.352 ± 83.641 χ^2/NDF : 761.2/24

Left Out: 247.844 ± 53.555 χ^2/NDF : 1355.1/24

Right Out: 373.180 ± 75.073 χ^2/NDF : 3171.4/29

Left In: -374.122 ± 52.049 χ^2/NDF : 1801.0/22

Left: -72.006 ± 37.325 χ^2/NDF : 3225.5/47

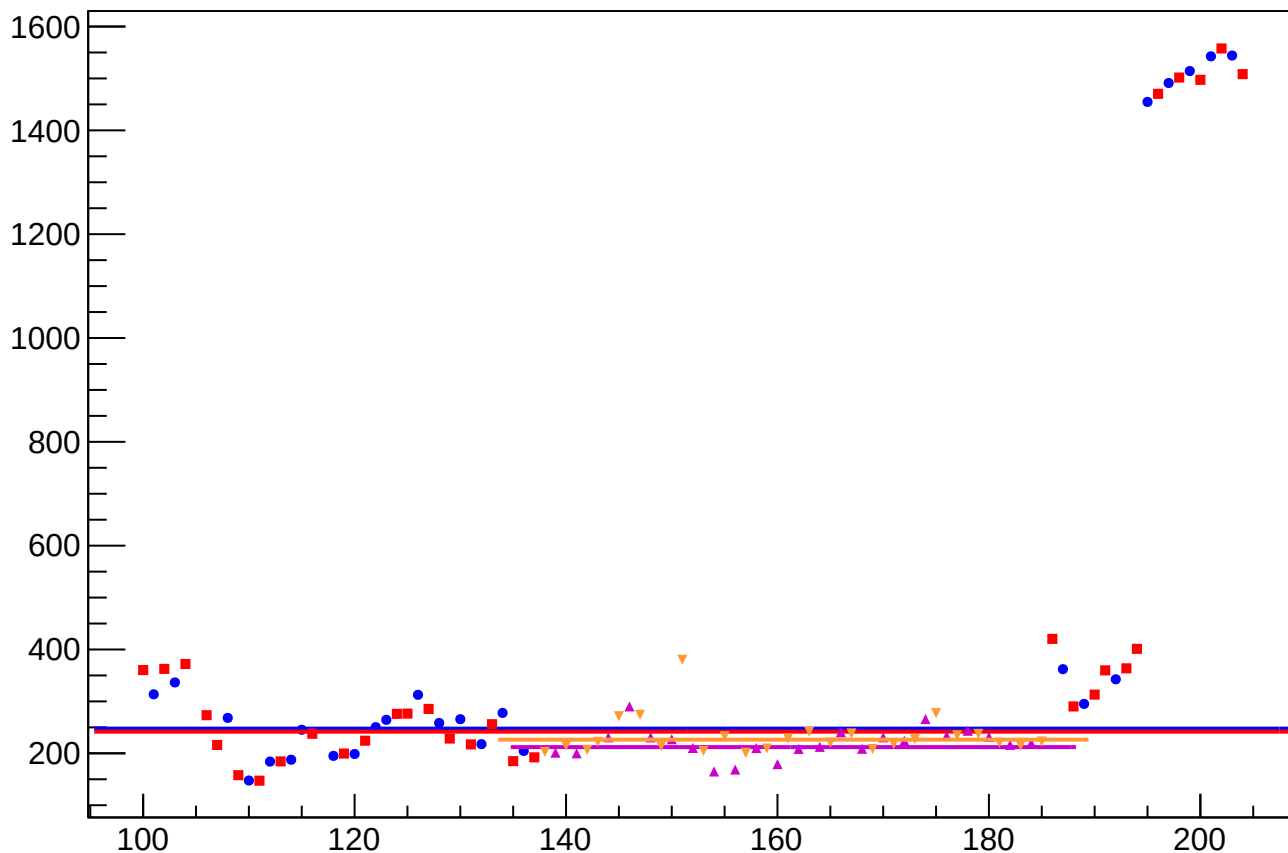
Right: -166.037 ± 55.869 χ^2/NDF : 4048.2/54

In: -502.873 ± 44.191 χ^2/NDF : 2584.1/47

Out: 290.115 ± 43.598 χ^2/NDF : 4528.3/54

All: -101.024 ± 31.036 χ^2/NDF : 7275.6/102

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 247.535 $\pm$ 0.059 χ^2 /NDF: 6556667.9/24

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 241.707 $\pm$ 0.053 χ^2 /NDF: 6982042.3/29

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

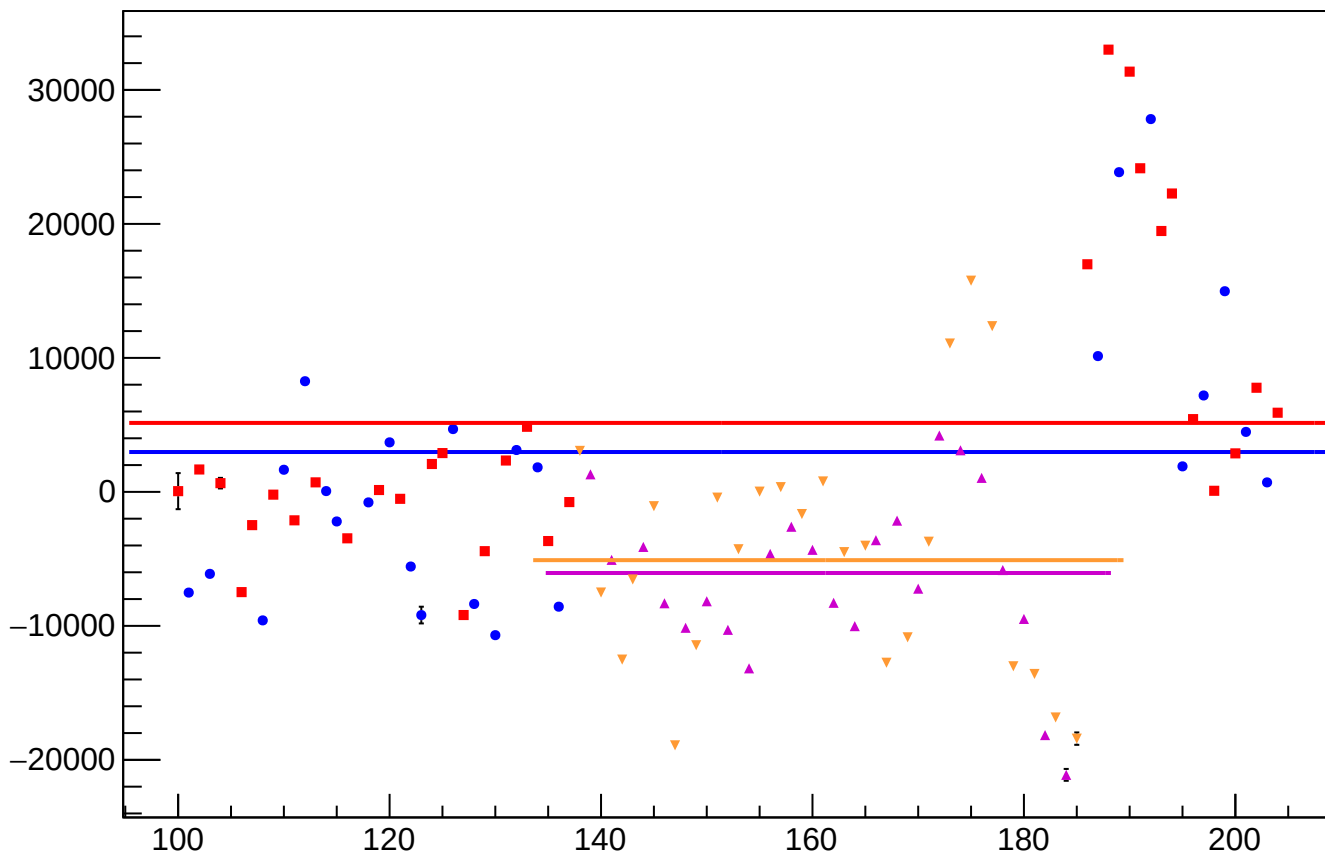
Right: 244.307 $\pm$ 0.040 χ^2 /NDF: 13544088.1/54

In: 221.898 $\pm$ 0.031 χ^2 /NDF: 7401672.5/47

Out: 231.511 $\pm$ 0.031 χ^2 /NDF: 7558750.3/54

All: 226.769 $\pm$ 0.022 χ^2 /NDF: 15008378.0/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 2975.453+/-37.694

χ^2/NDF : 73382.5/24

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right Out: 5147.498+/-34.813

χ^2/NDF : 101013.7/29

Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Right: 4147.654+/-25.575

χ^2/NDF : 176188.1/54

In: -1873.514+/-25.648

χ^2/NDF : 121785.9/47

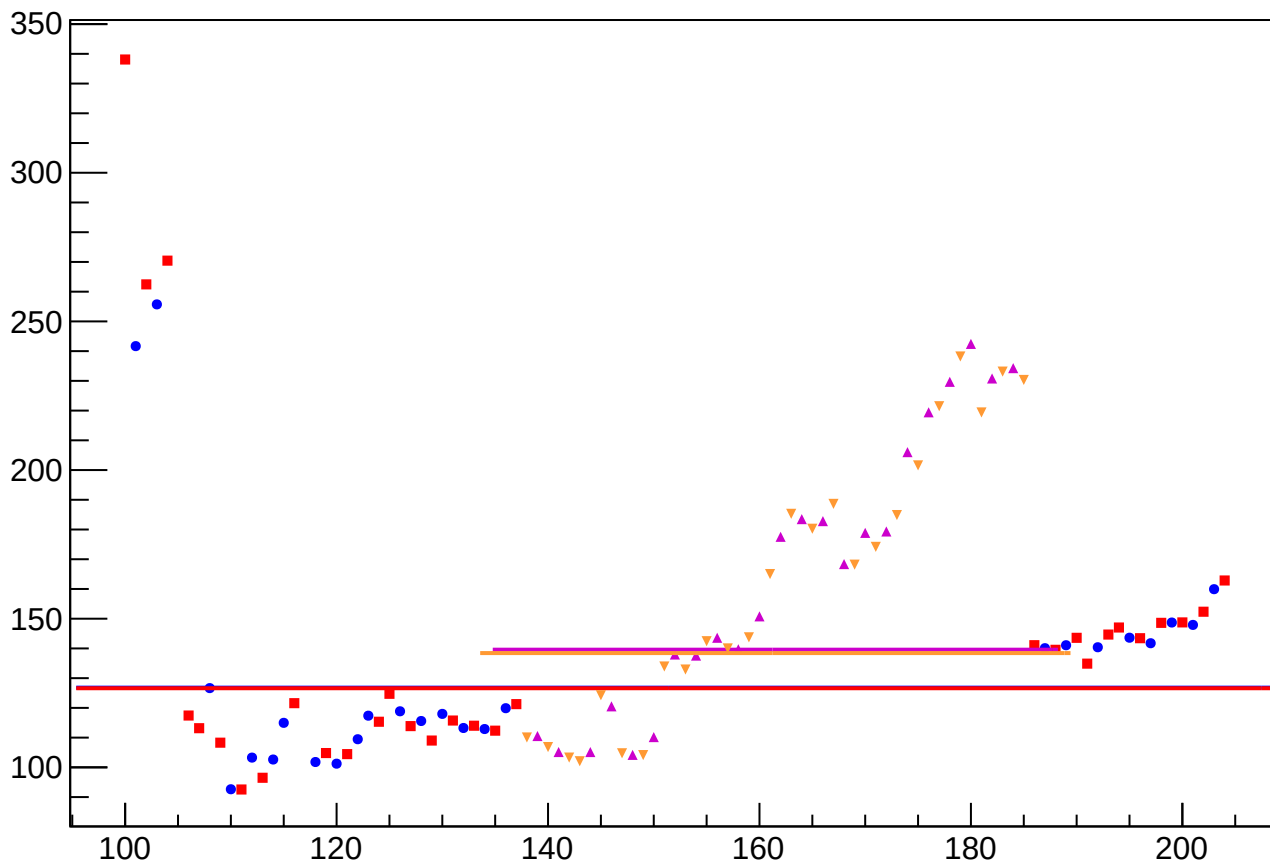
Out: -139.738+/-24.215

χ^2/NDF : 200094.3/54

All: -956.842+/-17.607

χ^2/NDF : 324296.2/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 126.806 $\pm$ 0.027 χ^2 /NDF: 1057771.1/24

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF:2549435.8/24

Right Out: 126.609 $\pm$ 0.025 χ^2 /NDF: 1252162.1/29

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

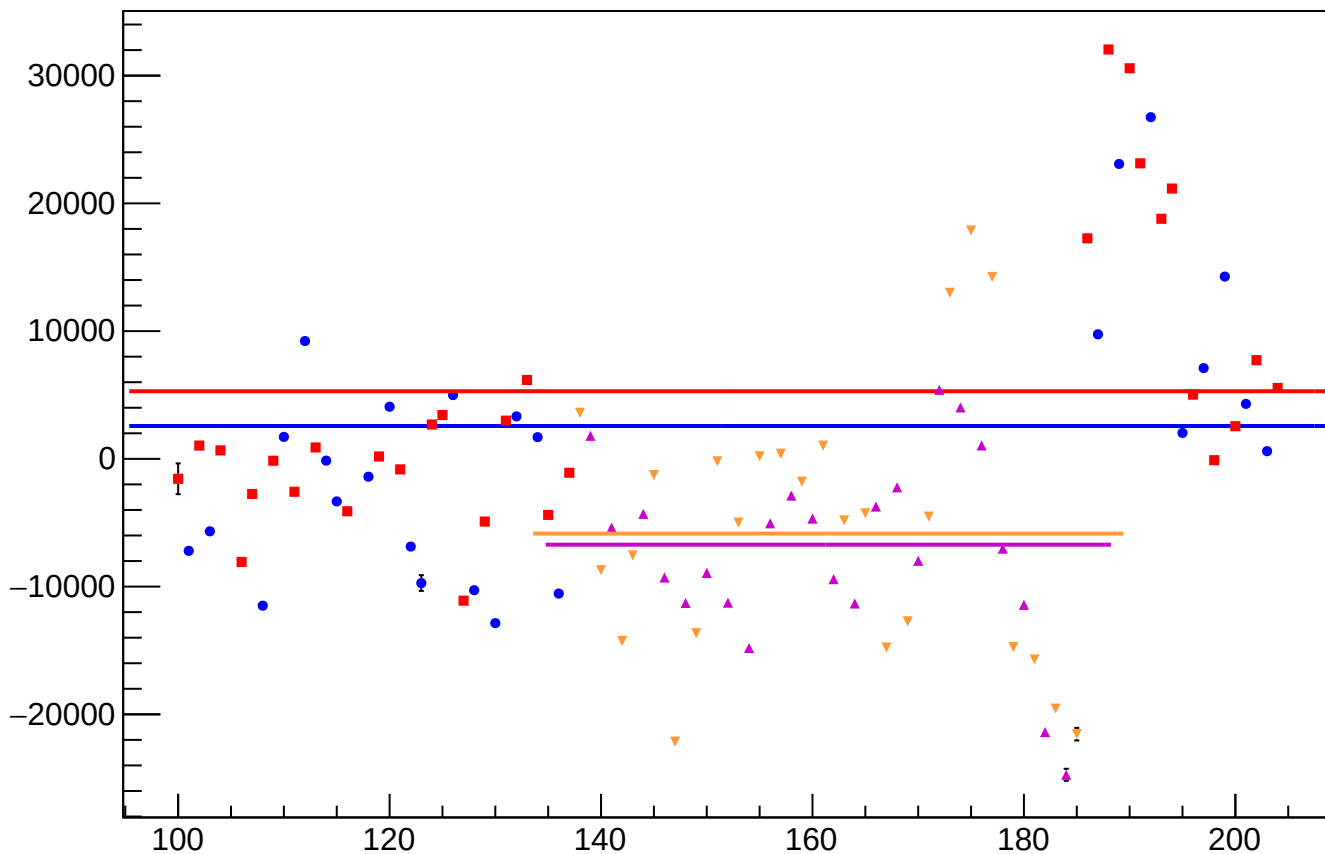
Right: 126.700 $\pm$ 0.018 χ^2 /NDF: 2309962.6/54

In: 133.665 $\pm$ 0.018 χ^2 /NDF:3594729.9/47

Out: 132.714 $\pm$ 0.017 χ^2 /NDF:3920734.8/54

All: 133.162 $\pm$ 0.012 χ^2 /NDF: 7516918.7/102

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2572.343 +/- 37.964

χ^2/NDF : 78372.2/24

Left: -6268.993 +/- 25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544 +/- 35.880

χ^2/NDF : 63411.4/24

Right: 4037.488 +/- 25.791

χ^2/NDF : 182659.5/54

Right Out: 5293.137 +/- 35.145

χ^2/NDF : 101521.4/29

In: -2158.094 +/- 26.598

χ^2/NDF : 129799.9/47

Out: -164.475 +/- 25.107

χ^2/NDF : 214179.0/54

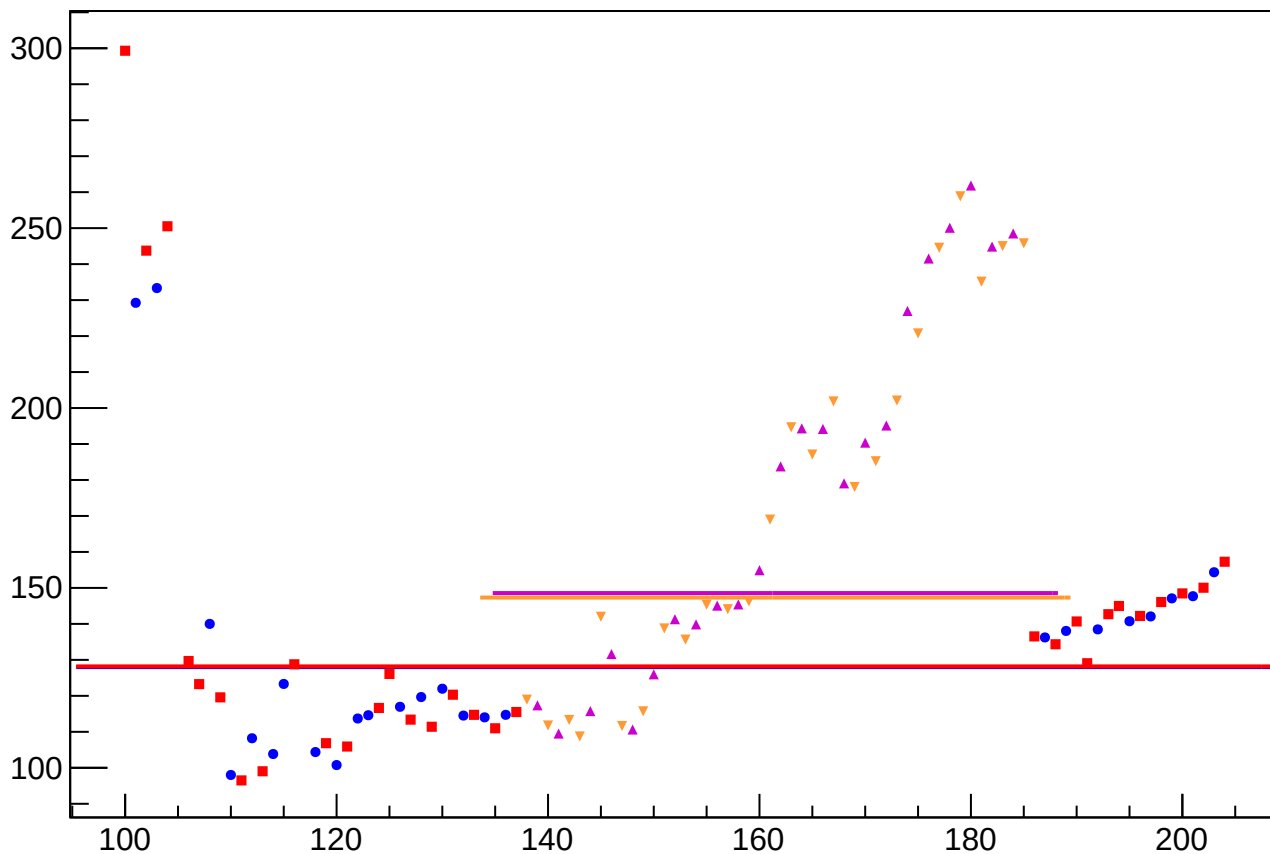
Left In: -6718.475 +/- 37.276

χ^2/NDF : 20934.3/22

All: -1103.851 +/- 18.258

χ^2/NDF : 346949.9/100

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 127.986 $\pm$ 0.027 χ^2 /NDF: 866061.3/24

Left Out: 147.317 $\pm$ 0.025 χ^2 /NDF: 2511679.9/24

Right Out: 128.186 $\pm$ 0.025 χ^2 /NDF: 998281.9/29

Left In: 148.569 $\pm$ 0.026 χ^2 /NDF: 2393185.0/22

Left: 147.919 $\pm$ 0.018 χ^2 /NDF: 4906034.9/47

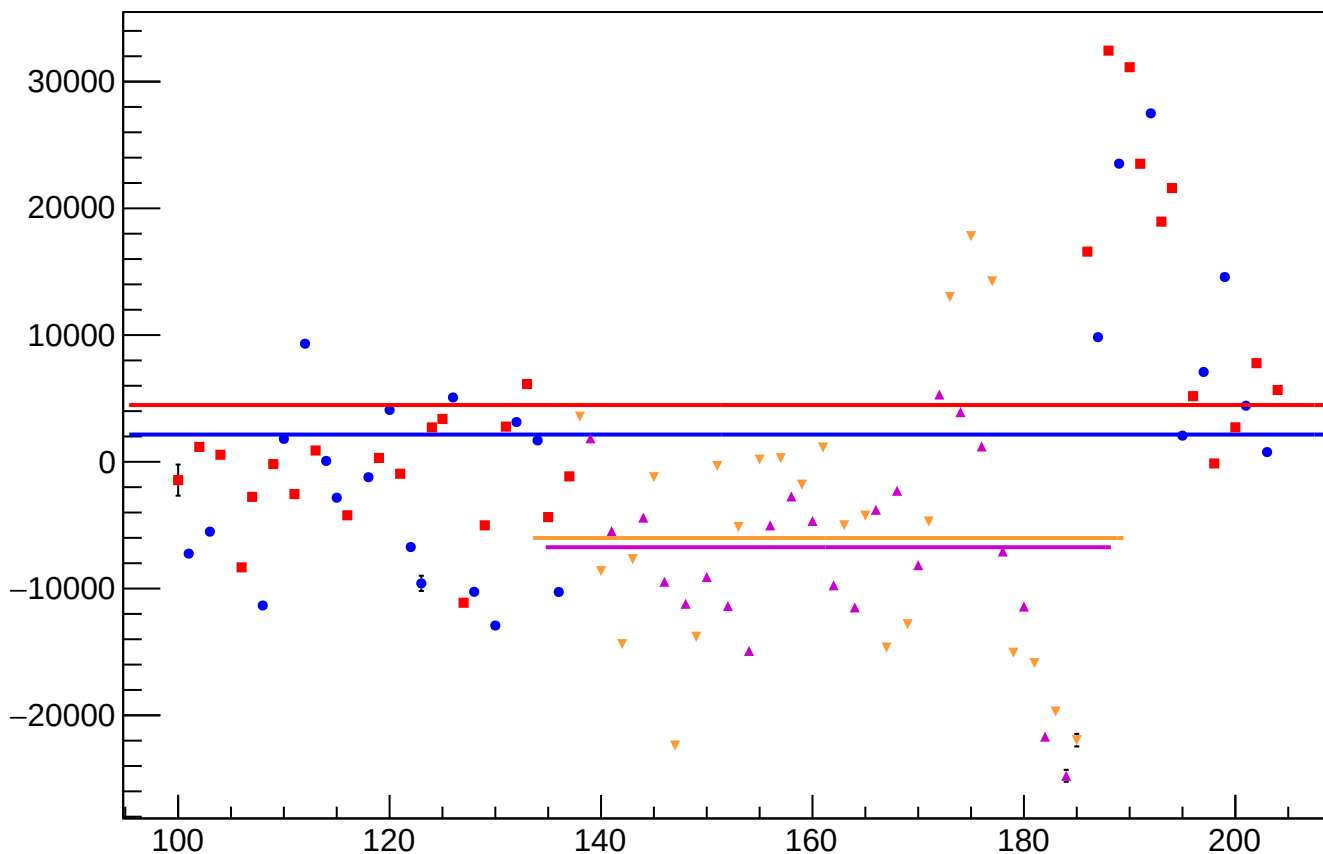
Right: 128.094 $\pm$ 0.018 χ^2 /NDF: 1864373.0/54

In: 138.466 $\pm$ 0.019 χ^2 /NDF: 3558548.9/47

Out: 137.554 $\pm$ 0.018 χ^2 /NDF: 3800144.2/54

All: 137.984 $\pm$ 0.013 χ^2 /NDF: 7359936.5/102

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 2151.652 $\pm$ 37.449 χ^2 /NDF: 77702.9/24

Left Out: -6009.913 $\pm$ 35.082 χ^2 /NDF:67852.2/24

Right Out: 4480.598 $\pm$ 34.862 χ^2 /NDF: 96152.8/29

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

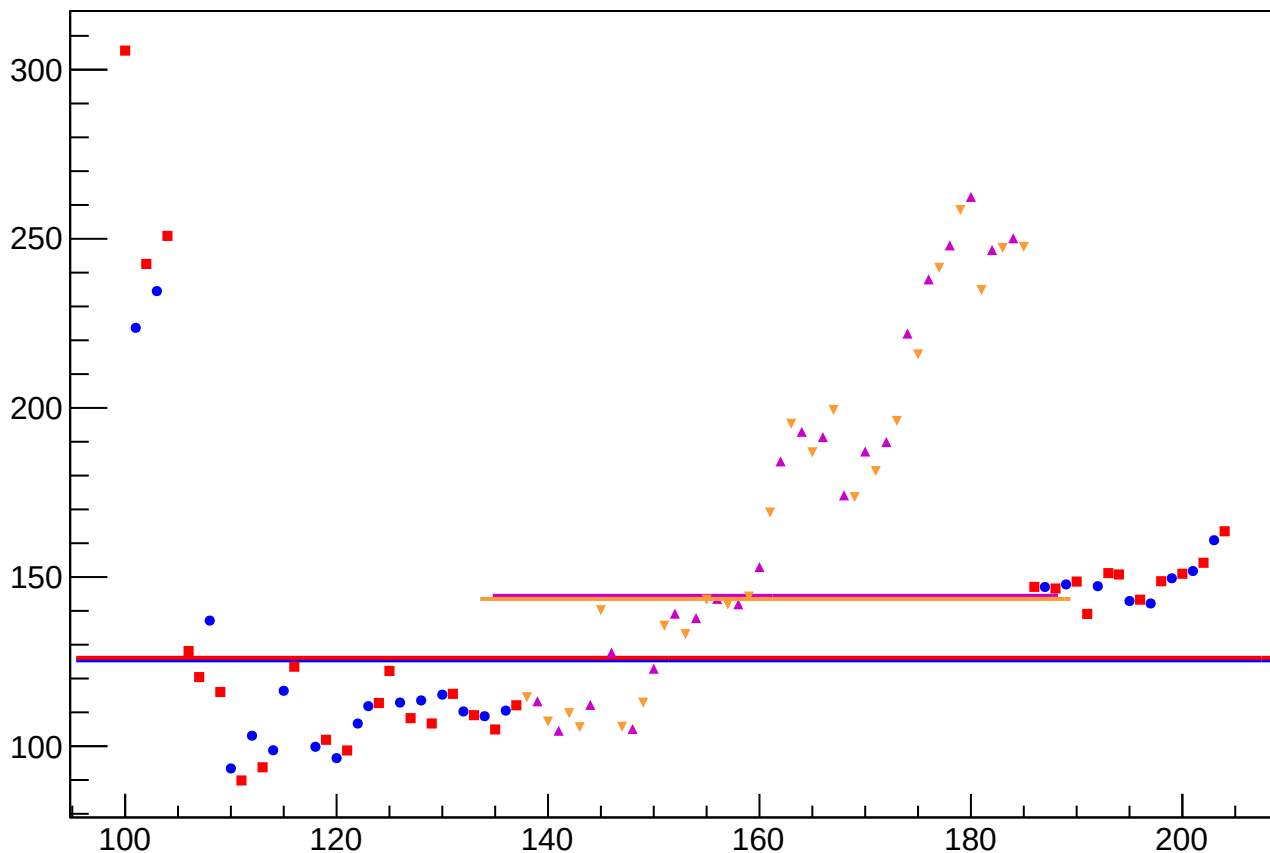
Right: 3399.341 $\pm$ 25.517 χ^2 /NDF: 175927.6/54

In: -2423.312 $\pm$ 26.094 χ^2 /NDF:128782.9/47

Out: -731.599 $\pm$ 24.729 χ^2 /NDF:208994.9/54

All: -1532.039 $\pm$ 17.949 χ^2 /NDF: 339992.2/100

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 125.375+/-0.026 χ^2/NDF : 1107107.6/24

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 126.128+/-0.025 χ^2/NDF : 1351956.8/29

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

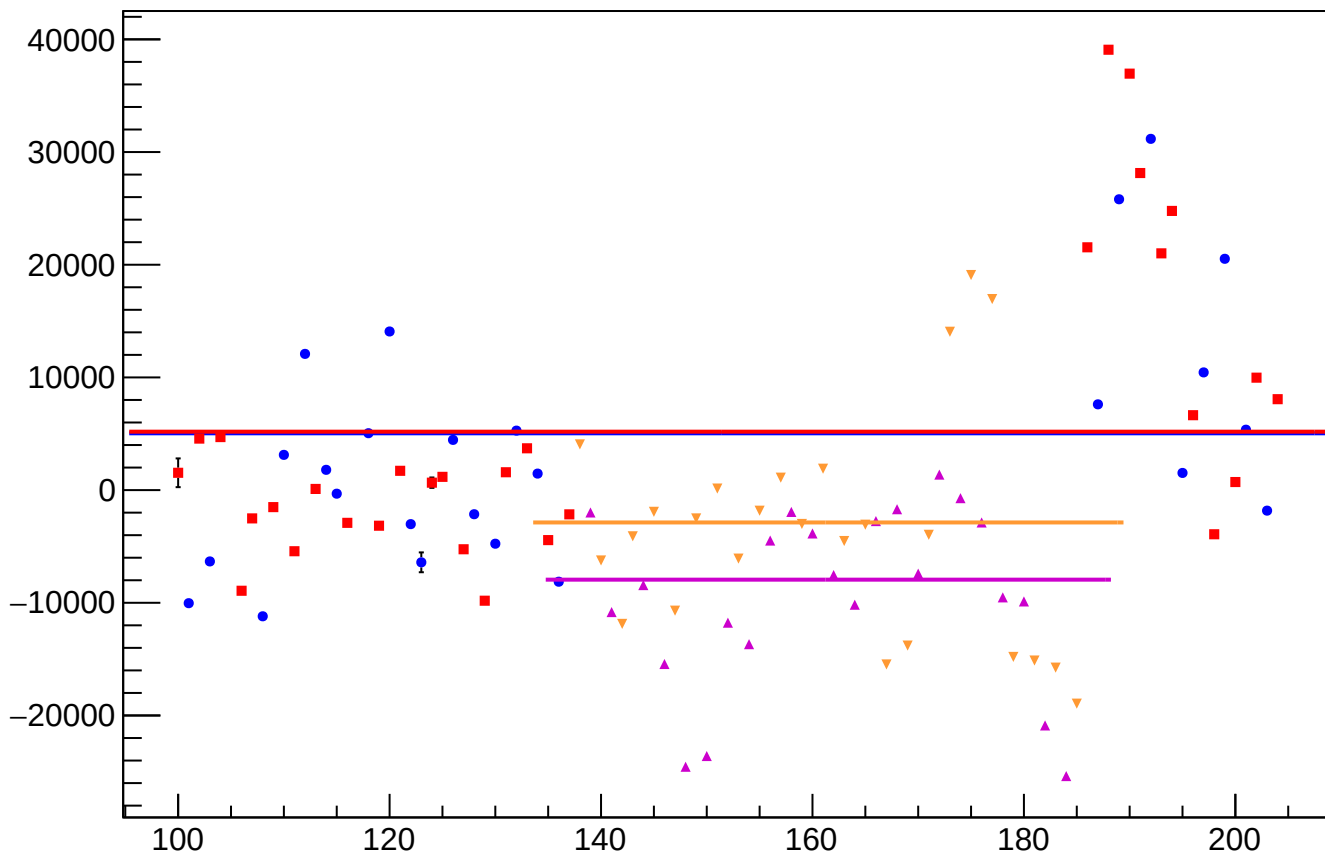
Right: 125.779+/-0.018 χ^2/NDF : 2459497.8/54

In: 135.184+/-0.018 χ^2/NDF : 3960701.1/47

Out: 134.775+/-0.017 χ^2/NDF : 4304352.3/54

All: 134.968+/-0.013 χ^2/NDF : 8265312.1/102

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5040.865+/-45.335 χ^2/NDF : 59714.6/24

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 5185.651+/-42.190 χ^2/NDF : 95371.1/29

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

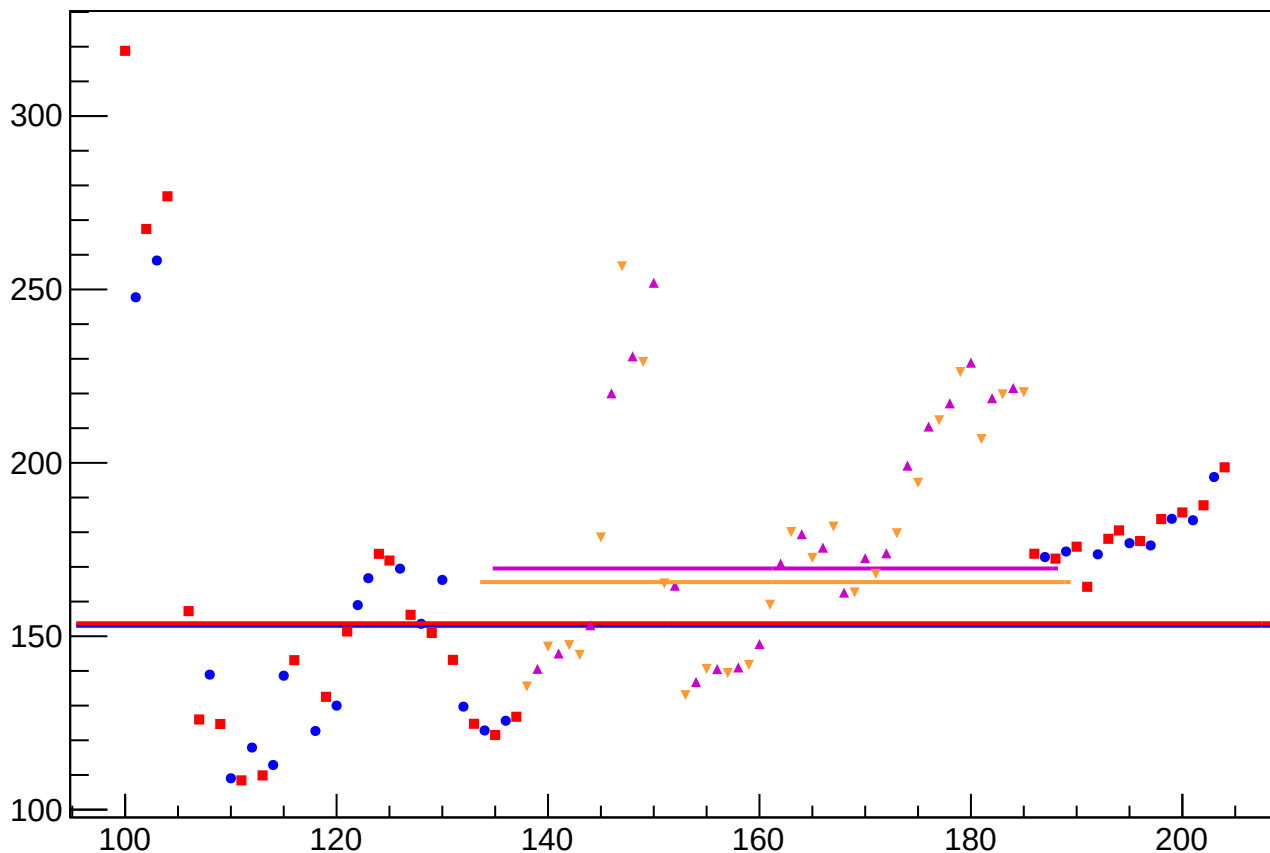
Right: 5118.454+/-30.885 χ^2/NDF : 155091.1/54

In: -1990.732+/-30.701 χ^2/NDF : 128023.7/47

Out: 890.743+/-28.828 χ^2/NDF : 161229.4/54

All: -459.402+/-21.016 χ^2/NDF : 293934.4/100

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 153.032 $\pm$ 0.032 χ^2 /NDF: 1066720.0/24

Left Out: 165.616 $\pm$ 0.028 χ^2 /NDF:1144779.3/24

Right Out: 153.748 $\pm$ 0.030 χ^2 /NDF: 1282892.3/29

Left In: 169.542 $\pm$ 0.030 χ^2 /NDF:1159241.9/22

Left: 167.471 $\pm$ 0.020 χ^2 /NDF: 2313359.6/47

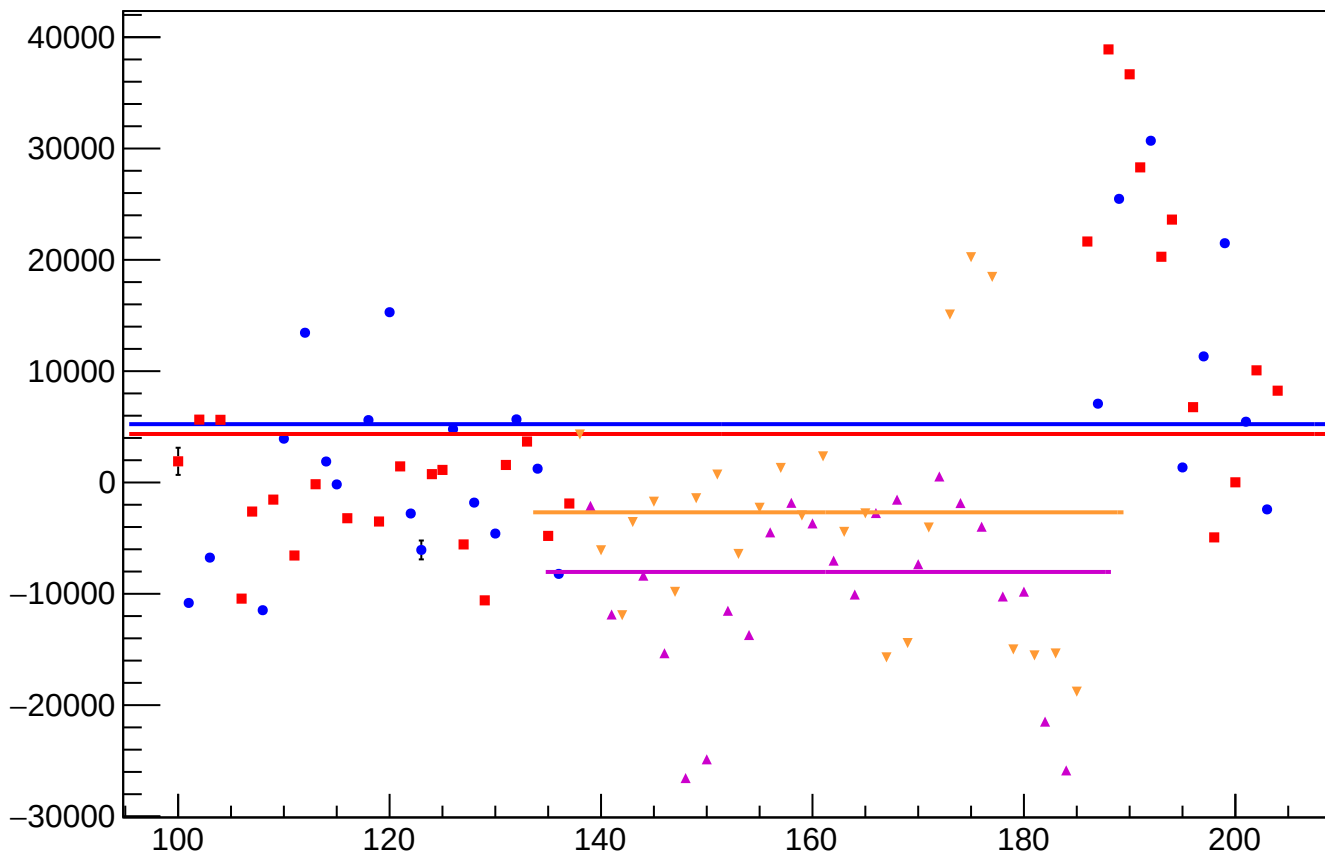
Right: 153.416 $\pm$ 0.022 χ^2 /NDF: 2349879.8/54

In: 161.970 $\pm$ 0.022 χ^2 /NDF:2369557.4/47

Out: 160.075 $\pm$ 0.020 χ^2 /NDF:2512042.7/54

All: 160.963 $\pm$ 0.015 χ^2 /NDF: 4885648.3/102

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5240.332+/-38.184

χ^2/NDF : 84100.3/24

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right Out: 4356.605+/-35.326

χ^2/NDF : 132695.0/29

Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Right: 4764.163+/-25.931

χ^2/NDF : 217084.0/54

In: -1443.532+/-26.908

χ^2/NDF : 174227.3/47

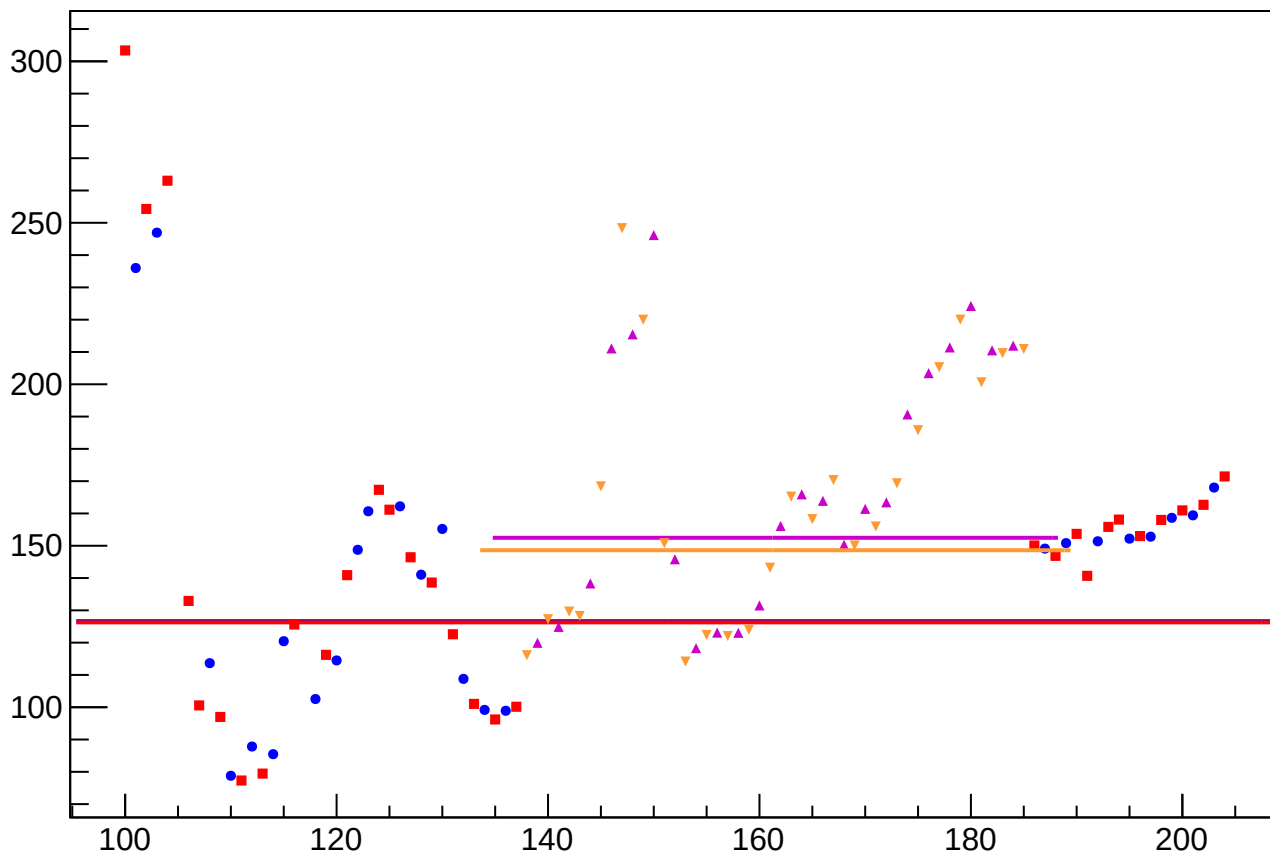
Out: 881.602+/-25.133

χ^2/NDF : 209109.6/54

All: -201.736+/-18.367

χ^2/NDF : 387324.8/10

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.632 $\pm$ 0.027 χ^2 /NDF: 1714617.4/24

Left Out: 148.611 $\pm$ 0.025 χ^2 /NDF:1685424.1/24

Right Out: 126.275 $\pm$ 0.025 χ^2 /NDF: 2098725.5/29

Left In: 152.463 $\pm$ 0.027 χ^2 /NDF:1691517.7/22

Left: 150.424 $\pm$ 0.018 χ^2 /NDF: 3387867.0/47

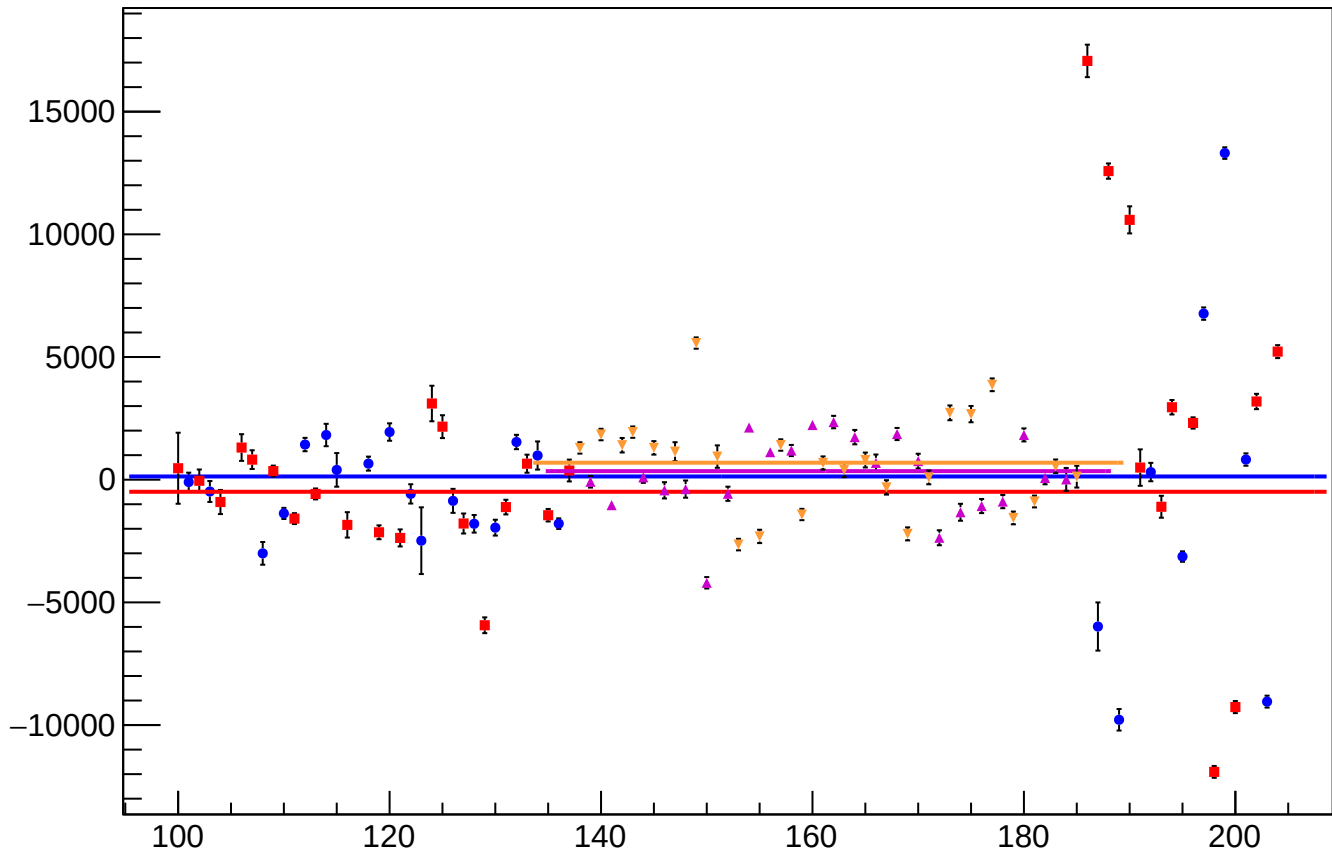
Right: 126.440 $\pm$ 0.018 χ^2 /NDF: 3813437.5/54

In: 139.636 $\pm$ 0.019 χ^2 /NDF:3866890.8/47

Out: 137.305 $\pm$ 0.018 χ^2 /NDF:4179006.1/54

All: 138.391 $\pm$ 0.013 χ^2 /NDF: 8053911.5/102

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 131.660 $\pm$ 64.080 χ^2 /NDF: 6387.6/24

Left Out: 692.998 $\pm$ 54.303 χ^2 /NDF:1422.0/24

Right Out: -491.890 $\pm$ 60.079 χ^2 /NDF: 7774.5/29

Left In: 349.623 $\pm$ 53.094 χ^2 /NDF:981.0/22

Left: 517.444 $\pm$ 37.963 χ^2 /NDF: 2423.4/47

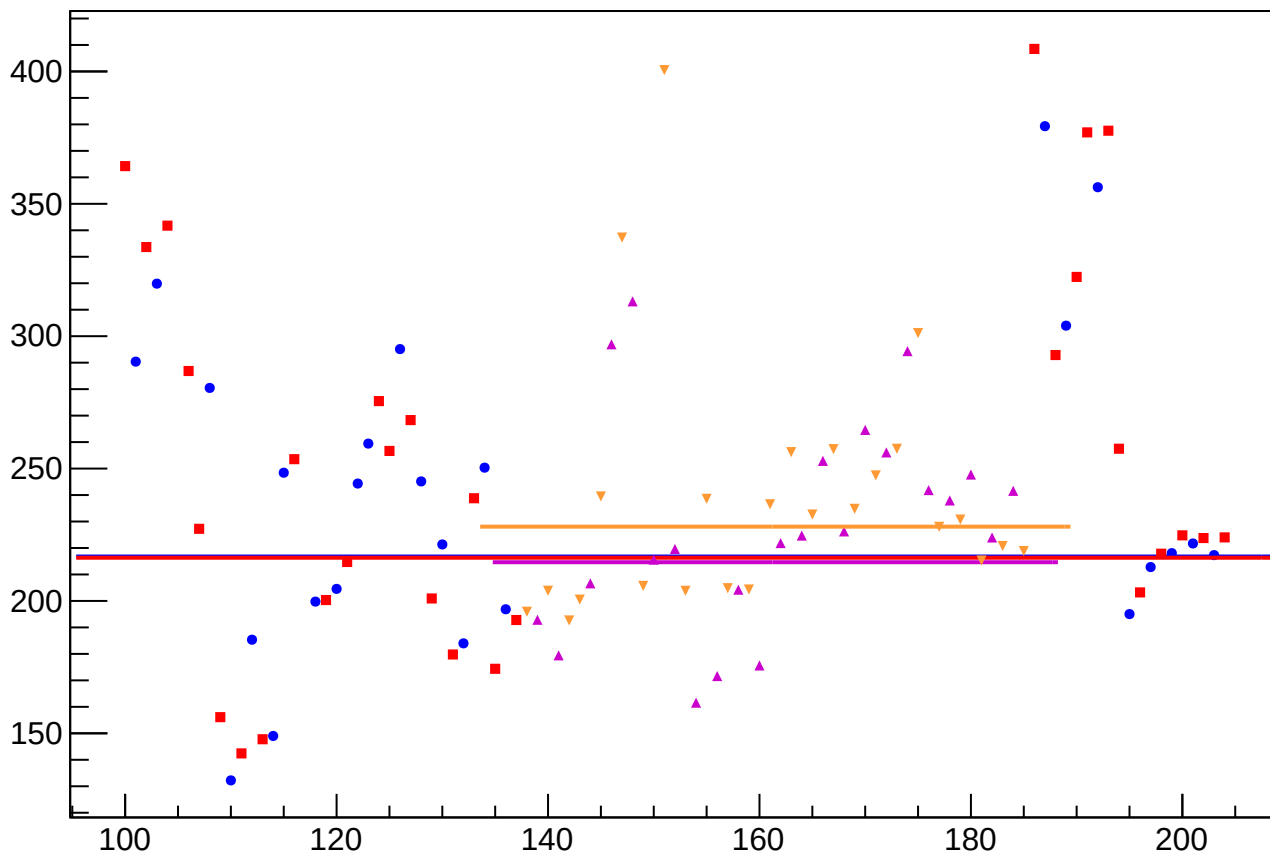
Right: -200.190 $\pm$ 43.828 χ^2 /NDF: 14212.5/54

In: 260.899 $\pm$ 40.884 χ^2 /NDF:7375.4/47

Out: 160.229 $\pm$ 40.286 χ^2 /NDF:9410.6/54

All: 209.822 $\pm$ 28.695 χ^2 /NDF: 16789.1/102

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.780 $\pm$ 0.045 χ^2 /NDF: 1149776.3/24

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 216.321 $\pm$ 0.042 χ^2 /NDF: 1820691.1/29

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

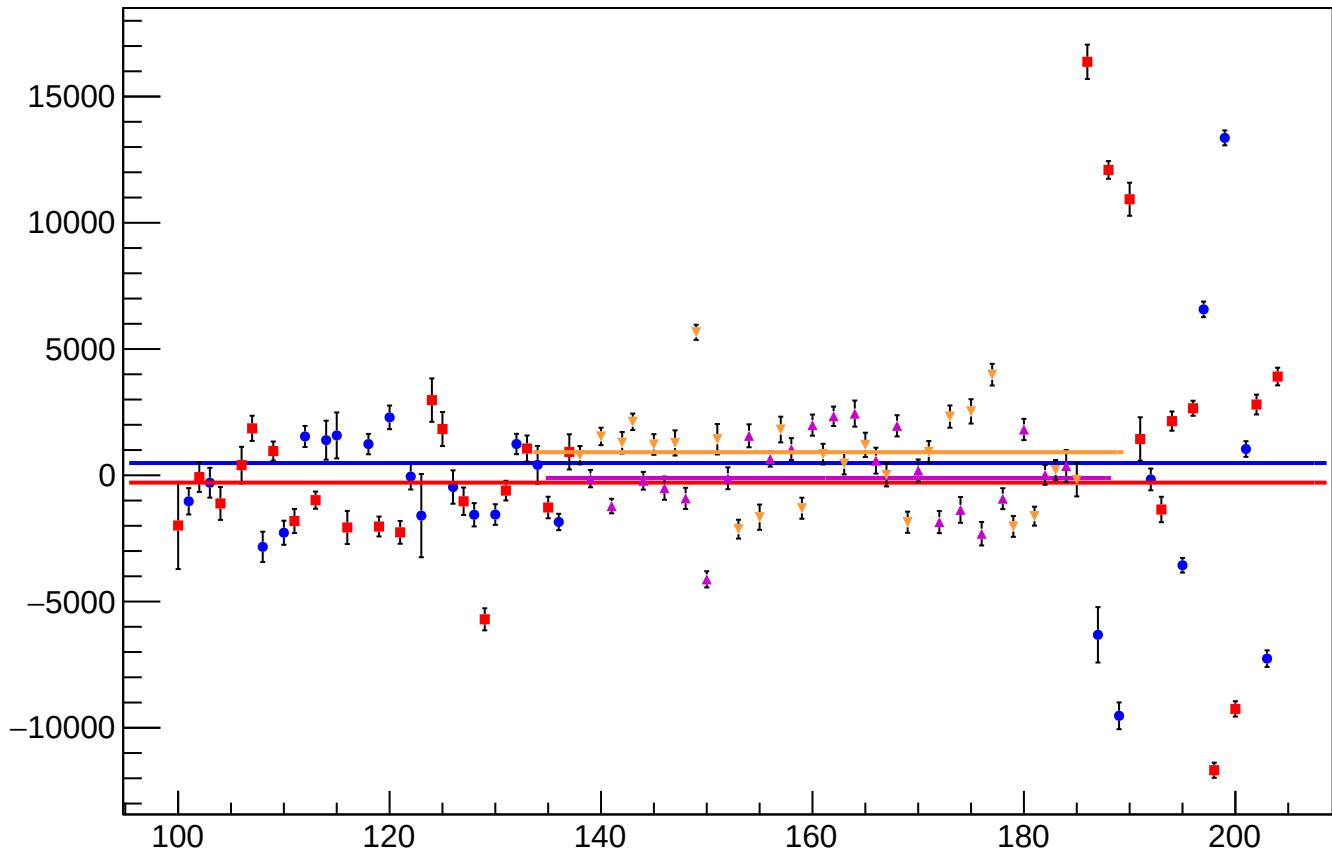
Right: 216.536 $\pm$ 0.031 χ^2 /NDF: 2970521.9/54

In: 215.503 $\pm$ 0.029 χ^2 /NDF: 2176797.8/47

Out: 222.782 $\pm$ 0.028 χ^2 /NDF: 2689063.1/54

All: 219.196 $\pm$ 0.020 χ^2 /NDF: 4898027.1/102

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 486.133 $\pm$ 87.408 χ^2/NDF : 3640.6/24

Left Out: 915.968 $\pm$ 83.398 χ^2/NDF : 618.3/24

Right Out: -290.309 $\pm$ 82.231 χ^2/NDF : 5098.3/29

Left In: -106.116 $\pm$ 84.393 χ^2/NDF : 390.3/22

Left: 410.985 $\pm$ 59.320 χ^2/NDF : 1082.8/47

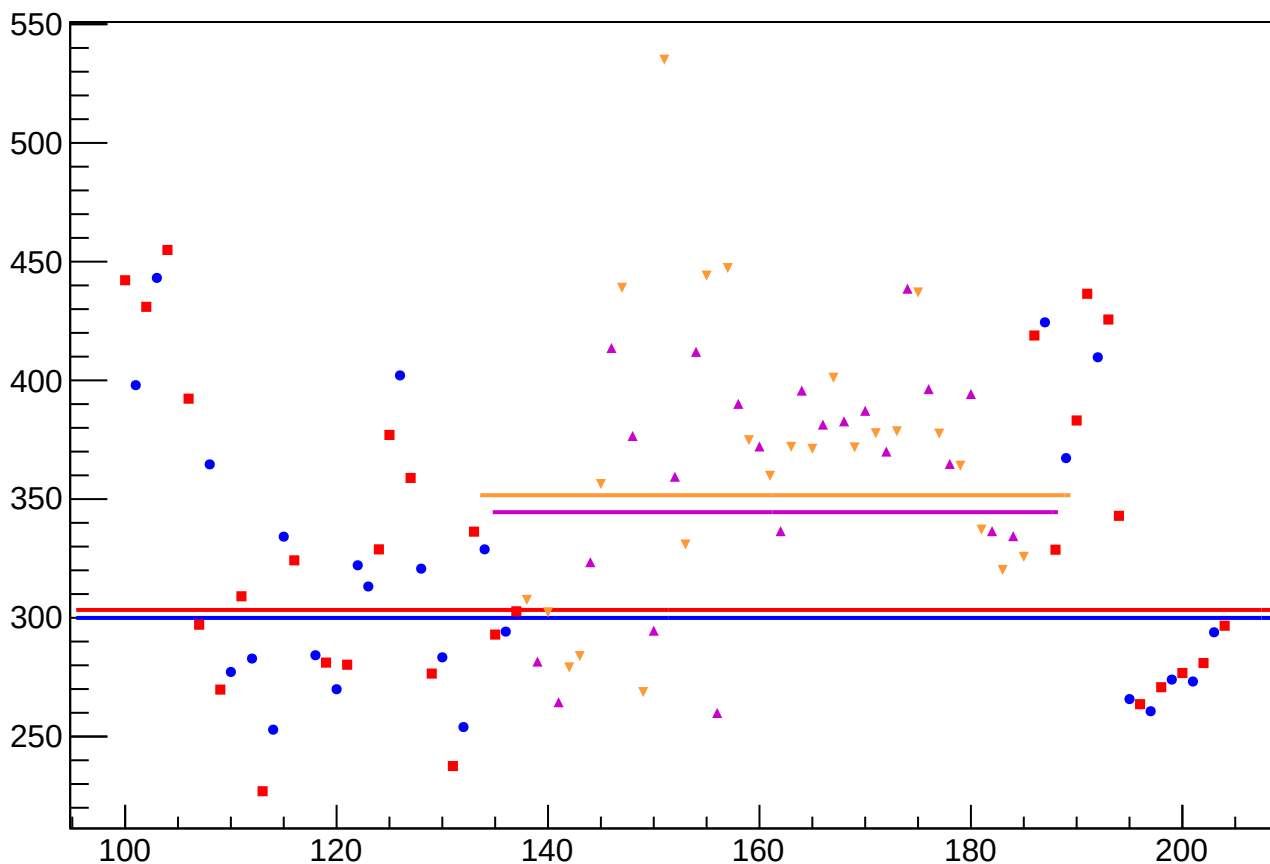
Right: 74.239 $\pm$ 59.893 χ^2/NDF : 8780.7/54

In: 179.618 $\pm$ 60.713 χ^2/NDF : 4054.6/47

Out: 304.330 $\pm$ 58.555 χ^2/NDF : 5822.7/54

All: 244.230 $\pm$ 42.147 χ^2/NDF : 9879.5/102

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 299.956 ± 0.062 χ^2/NDF : 608220.1/24

Left Out: 351.633 ± 0.059 χ^2/NDF : 907849.3/24

Right Out: 303.314 ± 0.058 χ^2/NDF : 862918.1/29

Left In: 344.491 ± 0.060 χ^2/NDF : 768885.4/22

Left: 348.104 ± 0.042 χ^2/NDF : 1683981.7/47

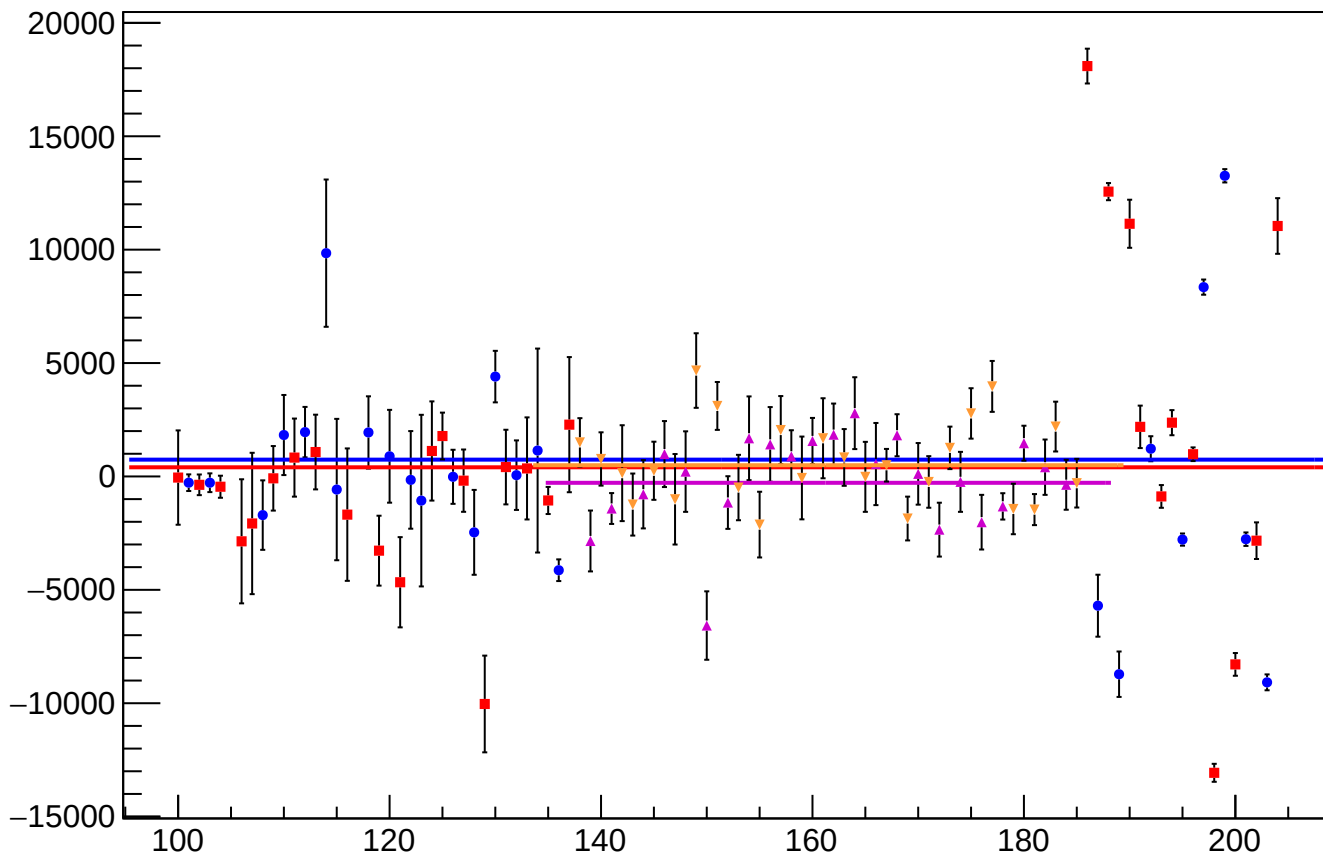
Right: 301.738 ± 0.042 χ^2/NDF : 1472703.7/54

In: 323.005 ± 0.043 χ^2/NDF : 1645805.5/47

Out: 327.133 ± 0.041 χ^2/NDF : 2111173.8/54

All: 325.144 ± 0.030 χ^2/NDF : 3761769.8/102

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 740.887 $\pm$ 110.946 χ^2 /NDF: 3683.5/24

Left Out: 495.014 $\pm$ 231.058 χ^2 /NDF:56.2/24

Right Out: 403.268 $\pm$ 130.870 χ^2 /NDF: 3293.9/29

Left In: -280.692 $\pm$ 232.048 χ^2 /NDF:57.2/22

Left: 108.818 $\pm$ 163.732 χ^2 /NDF: 119.1/47

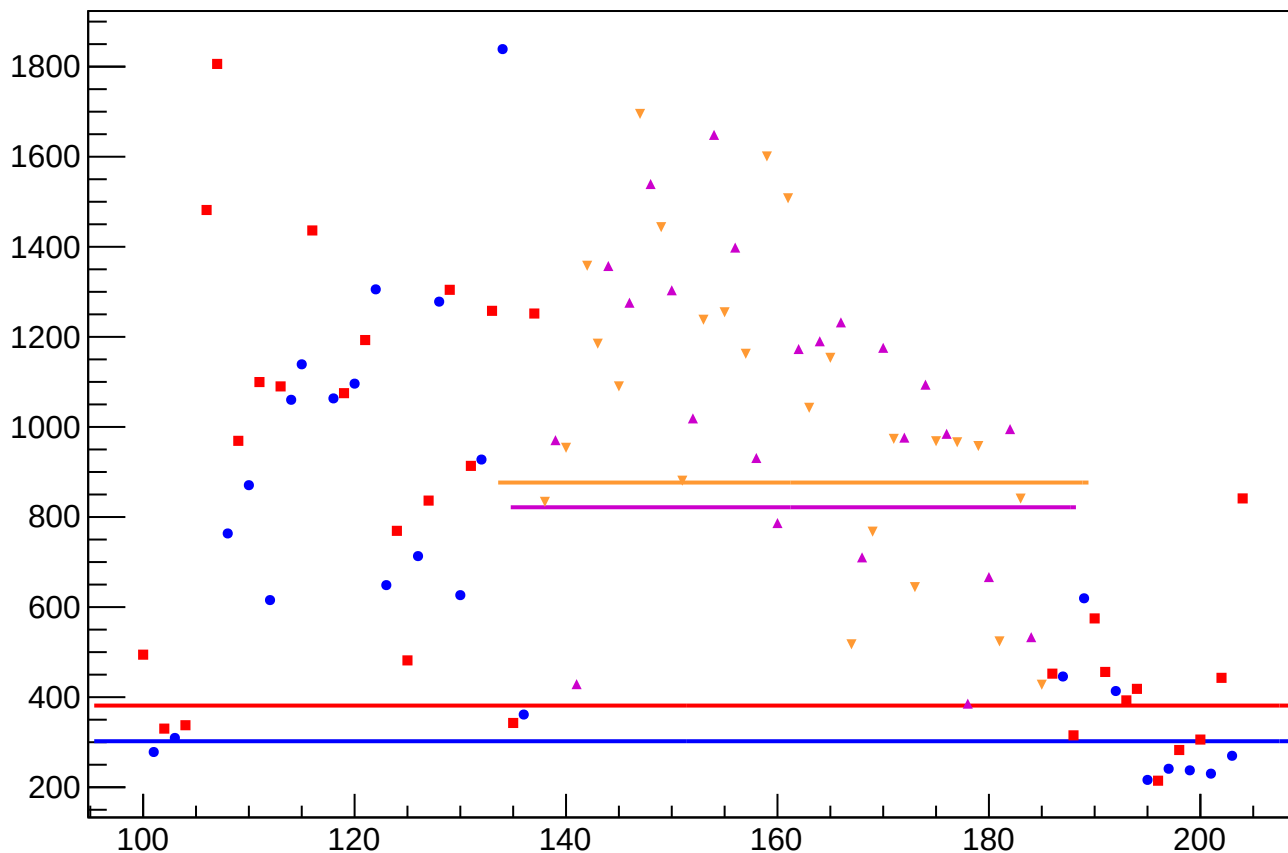
Right: 599.707 $\pm$ 84.628 χ^2 /NDF: 6981.2/54

In: 550.809 $\pm$ 100.094 χ^2 /NDF:3756.4/47

Out: 425.552 $\pm$ 113.873 χ^2 /NDF:3350.2/54

All: 496.214 $\pm$ 75.179 χ^2 /NDF: 7107.4/102

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 302.196+/-0.078 χ^2/NDF : 4367778.6/24

Left Out: 876.560+/-0.163 χ^2/NDF : 3434698.7/24

Right Out: 381.356+/-0.093 χ^2/NDF : 5457544.4/29

Left In: 821.657+/-0.164 χ^2/NDF : 4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

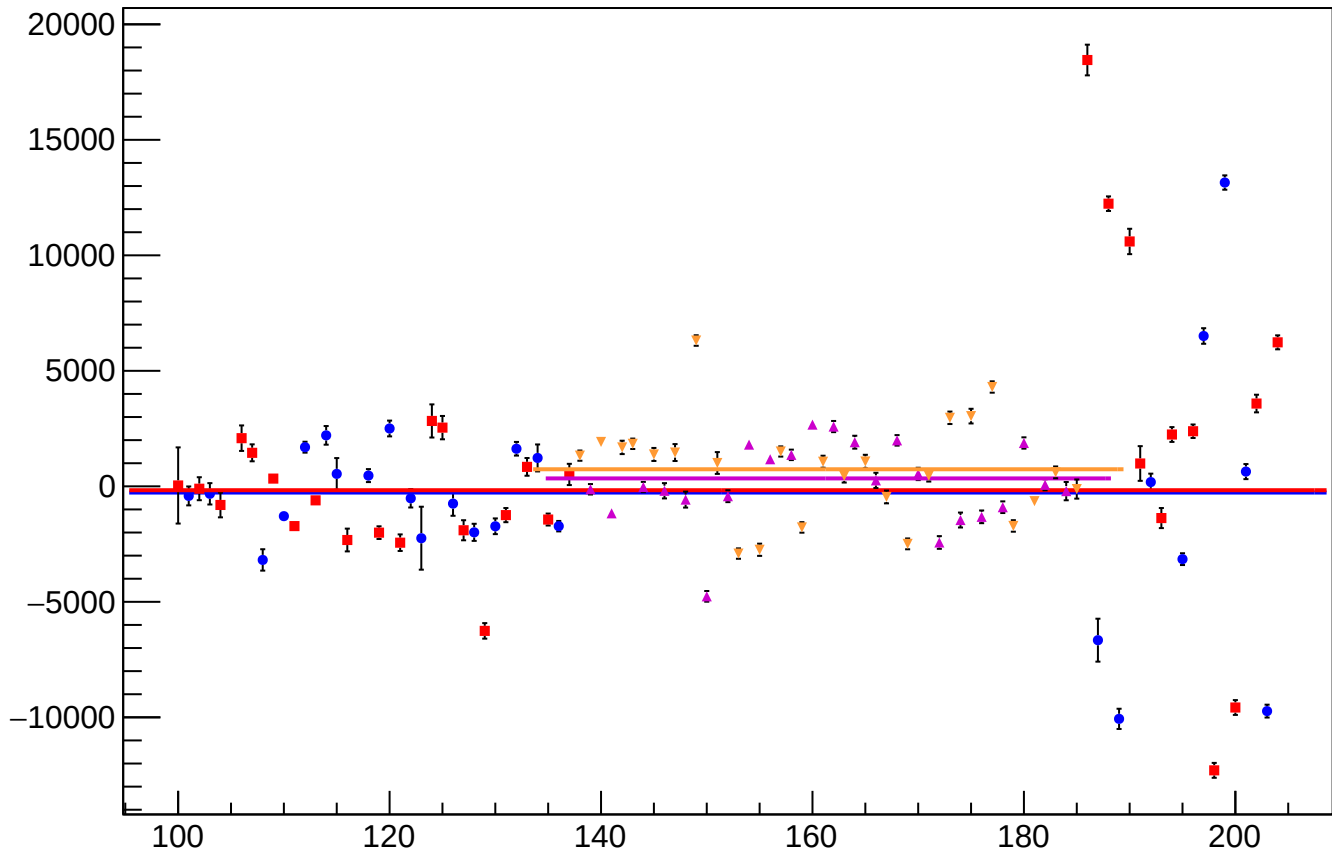
Right: 335.297+/-0.060 χ^2/NDF : 10251081.4/54

In: 398.848+/-0.071 χ^2/NDF : 16968690.4/47

Out: 501.633+/-0.081 χ^2/NDF : 15847594.9/54

All: 443.649+/-0.053 χ^2/NDF : 33735523.2/10

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -269.096 ± 67.814 $\chi^2/\text{NDF}: 4490.4/24$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: -168.175 ± 62.197 $\chi^2/\text{NDF}: 6323.6/29$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

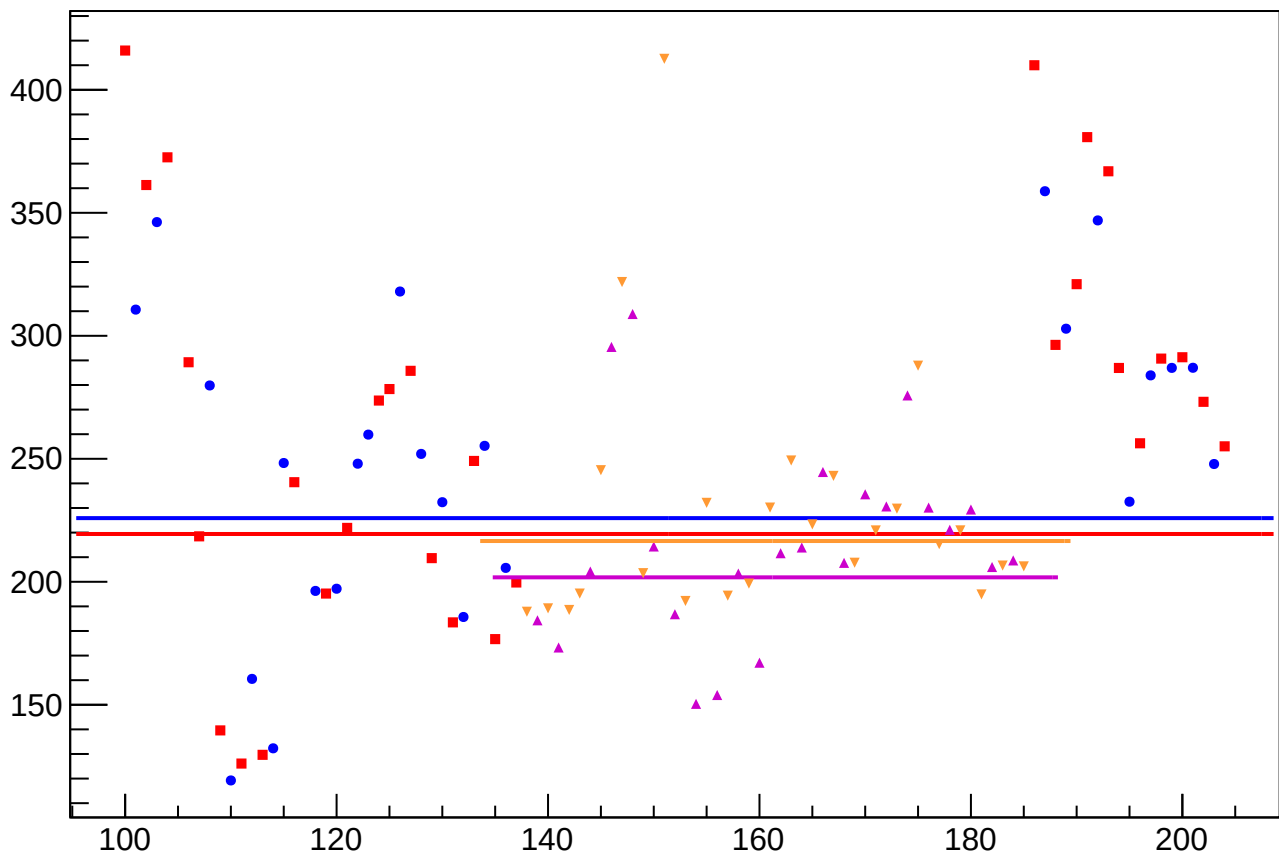
Right: -214.284 ± 45.837 $\chi^2/\text{NDF}: 10815.1/54$

In: 126.841 ± 40.267 $\chi^2/\text{NDF}: 5797.9/47$

Out: 368.659 ± 39.735 $\chi^2/\text{NDF}: 8384.6/54$

All: 249.358 ± 28.283 $\chi^2/\text{NDF}: 14200.8/102$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 225.884 +/- 0.048 χ^2/NDF : 1769169.1/24

Left Out: 216.574 +/- 0.037 χ^2/NDF : 886214.1/24

Right Out: 219.432 +/- 0.044 χ^2/NDF : 2832261.1/29

Left In: 201.805 +/- 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 +/- 0.025 χ^2/NDF : 2057801.5/47

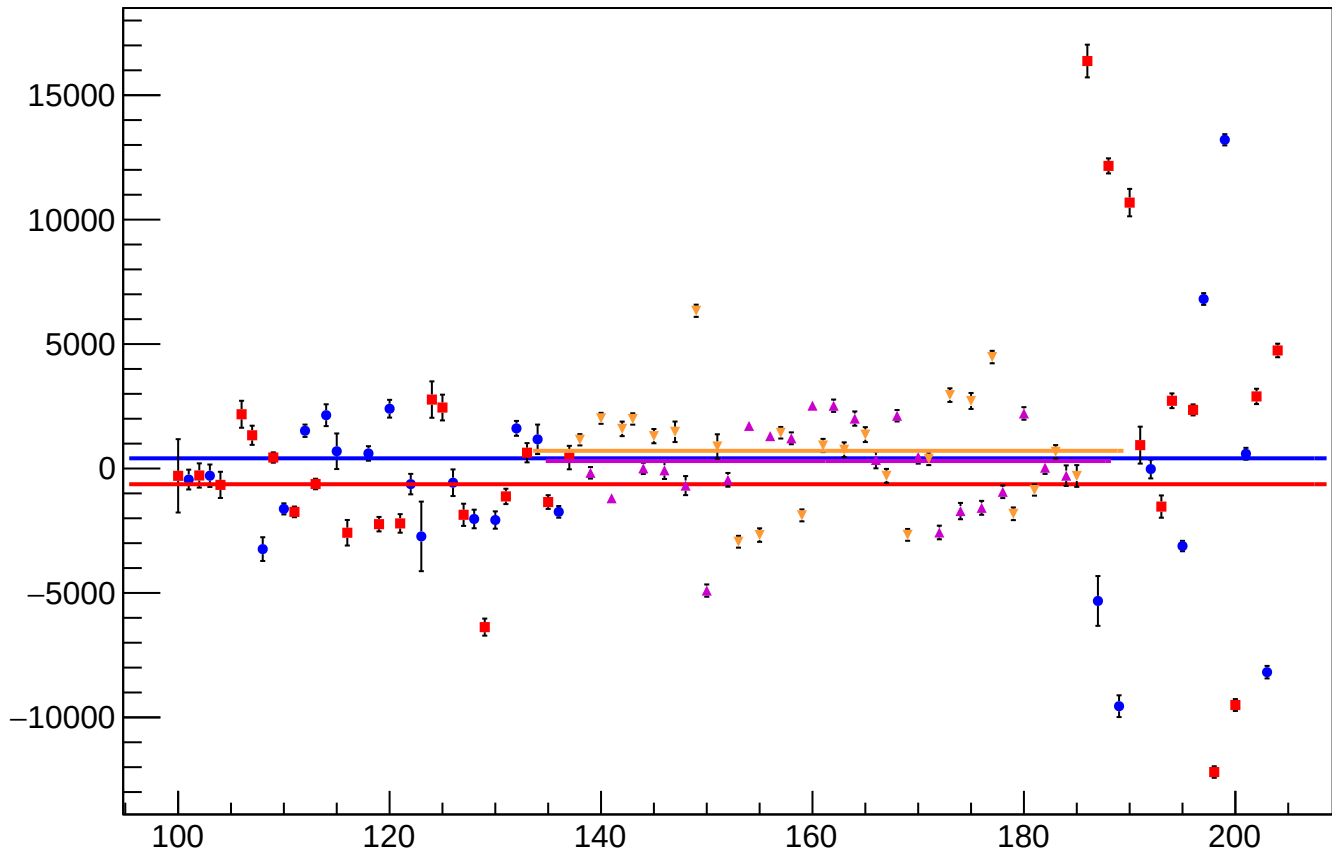
Right: 222.380 +/- 0.032 χ^2/NDF : 4611261.9/54

In: 210.295 +/- 0.028 χ^2/NDF : 3019658.9/47

Out: 217.741 +/- 0.028 χ^2/NDF : 3720975.1/54

All: 214.067 +/- 0.020 χ^2/NDF : 6775279.7/102

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 409.488+/-64.111 χ^2/NDF : 6380.9/24

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: -631.822+/-59.979 χ^2/NDF : 8122.4/29

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

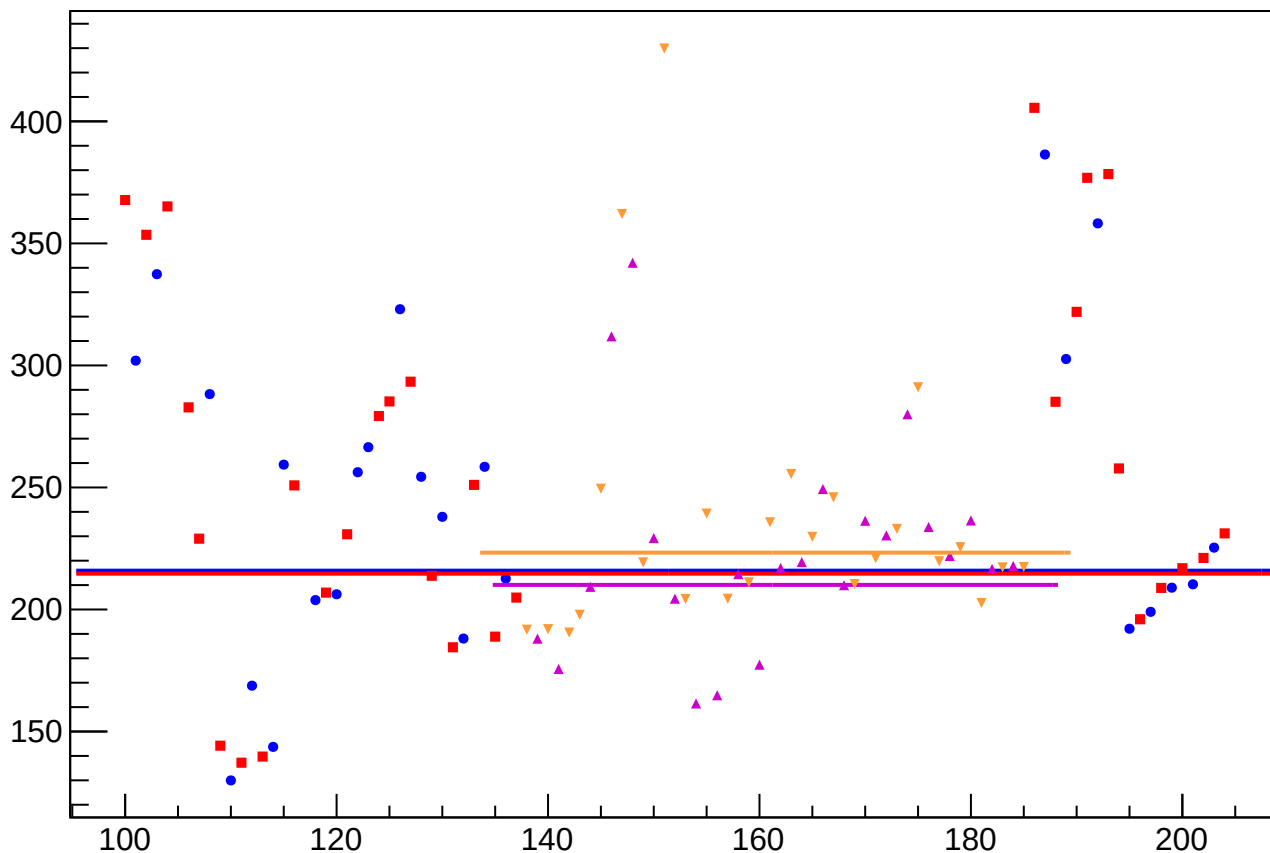
Right: -145.802+/-43.799 χ^2/NDF : 14644.0/54

In: 343.742+/-40.378 χ^2/NDF :7591.3/47

Out: 119.269+/-39.819 χ^2/NDF :10238.2/54

All: 229.940+/-28.352 χ^2/NDF : 17845.1/102

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 215.905 $\pm$ 0.045 χ^2/NDF : 1344073.0/24

Left Out: 223.296 $\pm$ 0.038 χ^2/NDF : 922768.4/24

Right Out: 214.665 $\pm$ 0.042 χ^2/NDF : 2093515.9/29

Left In: 210.080 $\pm$ 0.037 χ^2/NDF : 1015274.5/22

Left: 216.530 $\pm$ 0.026 χ^2/NDF : 2001132.1/47

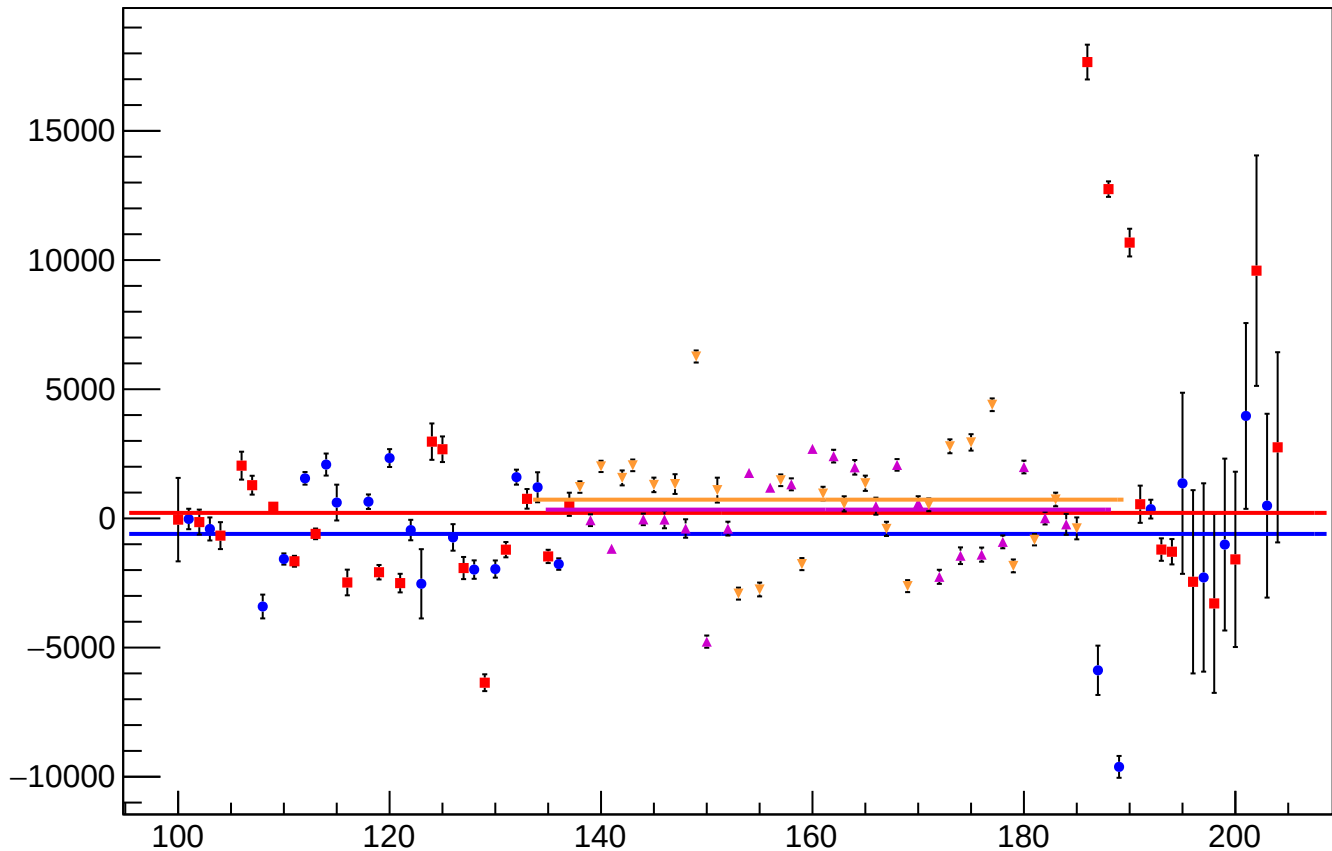
Right: 215.244 $\pm$ 0.031 χ^2/NDF : 3437987.3/54

In: 212.390 $\pm$ 0.029 χ^2/NDF : 2369307.7/47

Out: 219.492 $\pm$ 0.028 χ^2/NDF : 3039445.6/54

All: 215.991 $\pm$ 0.020 χ^2/NDF : 5440121.1/102

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -600.683 ± 79.099 χ^2/NDF : 893.8/24

Left Out: 725.866 ± 52.158 χ^2/NDF : 1912.7/24

Right Out: 213.470 ± 69.996 χ^2/NDF : 3638.4/29

Left In: 340.502 ± 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 ± 36.393 χ^2/NDF : 3142.6/47

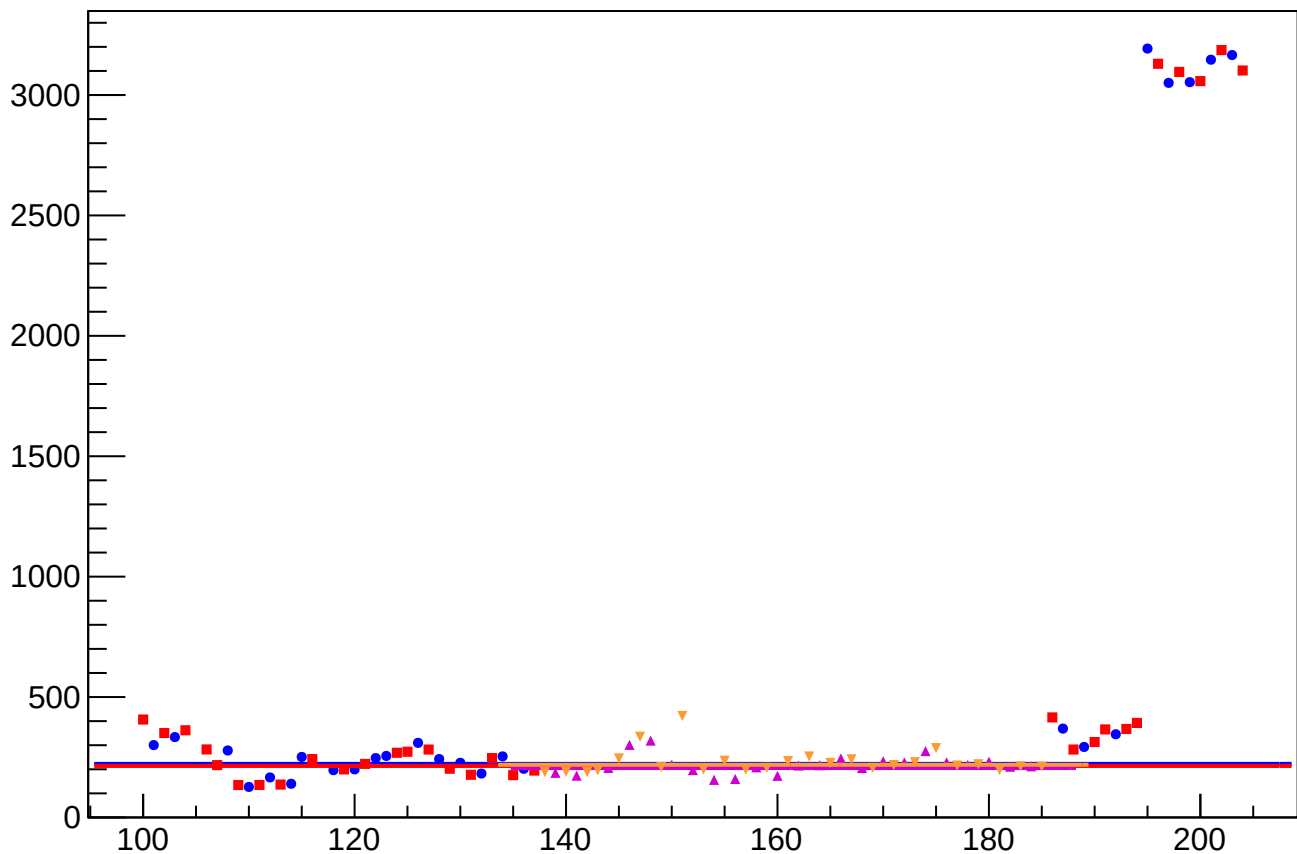
Right: -144.080 ± 52.419 χ^2/NDF : 4591.6/54

In: 65.643 ± 42.745 χ^2/NDF : 2195.9/47

Out: 542.928 ± 41.824 χ^2/NDF : 5585.6/54

All: 309.487 ± 29.894 χ^2/NDF : 7845.2/102

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 222.493+/-0.056 χ^2/NDF : 8074244.2/24

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 213.874+/-0.049 χ^2/NDF : 8691823.8/29

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

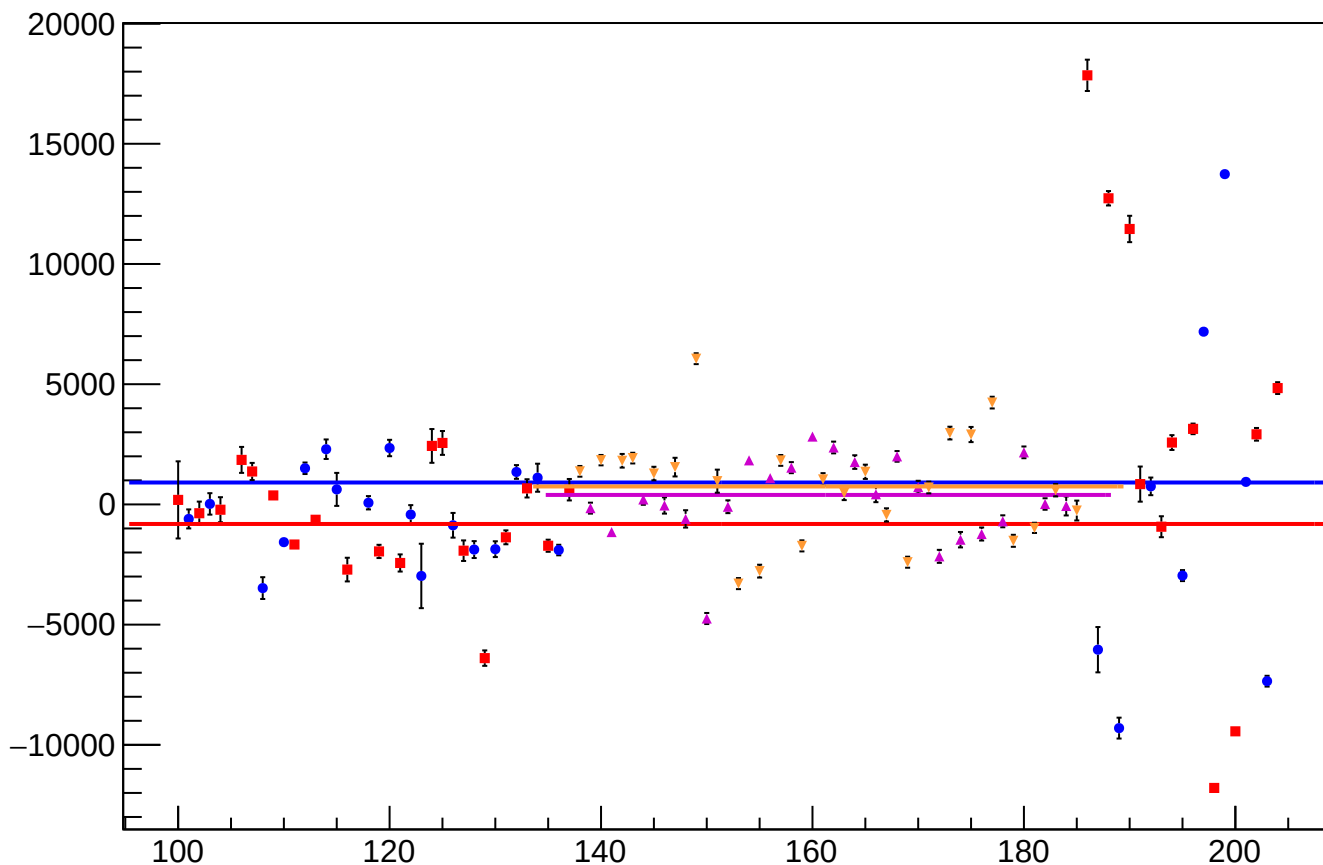
Right: 217.660+/-0.037 χ^2/NDF : 16779385.9/54

In: 210.285+/-0.030 χ^2/NDF : 9138709.4/47

Out: 217.021+/-0.030 χ^2/NDF : 9595025.2/54

All: 213.726+/-0.021 χ^2/NDF : 18759109.9/100

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 911.272 ± 60.180 $\chi^2/\text{NDF}: 8219.5/24$

Left Out: 746.405 ± 51.592 $\chi^2/\text{NDF}: 1942.1/24$

Right Out: -813.335 ± 56.134 $\chi^2/\text{NDF}: 9832.2/29$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 565.969 ± 36.020 $\chi^2/\text{NDF}: 3202.4/47$

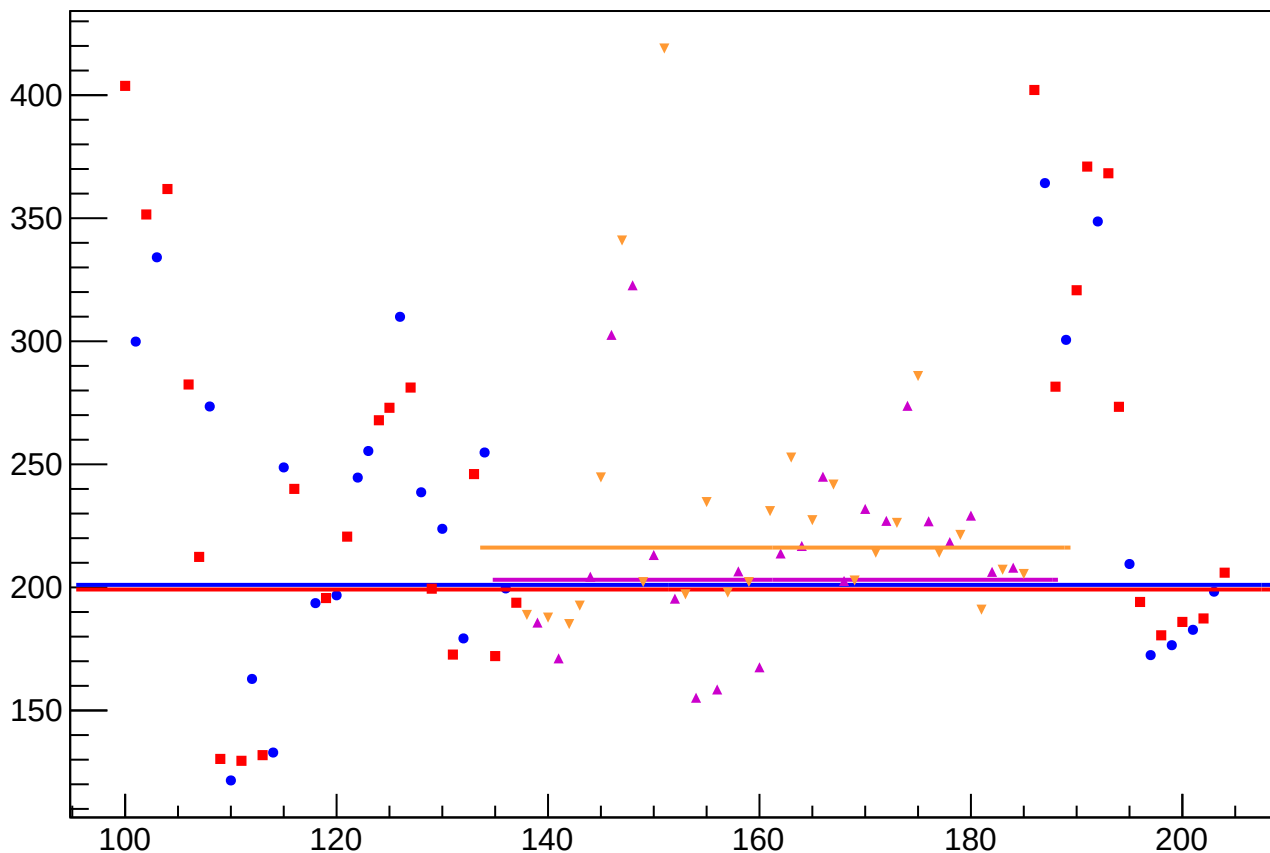
Right: -10.951 ± 41.048 $\chi^2/\text{NDF}: 18490.8/54$

In: 607.025 ± 38.599 $\chi^2/\text{NDF}: 9499.3/47$

Out: 32.179 ± 37.985 $\chi^2/\text{NDF}: 12192.8/54$

All: 314.994 ± 27.074 $\chi^2/\text{NDF}: 21804.8/102$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 201.029+/-0.043 χ^2/NDF : 1518641.5/24

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 199.145+/-0.040 χ^2/NDF : 2438205.3/29

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.475+/-0.025 χ^2/NDF : 2049926.5/47

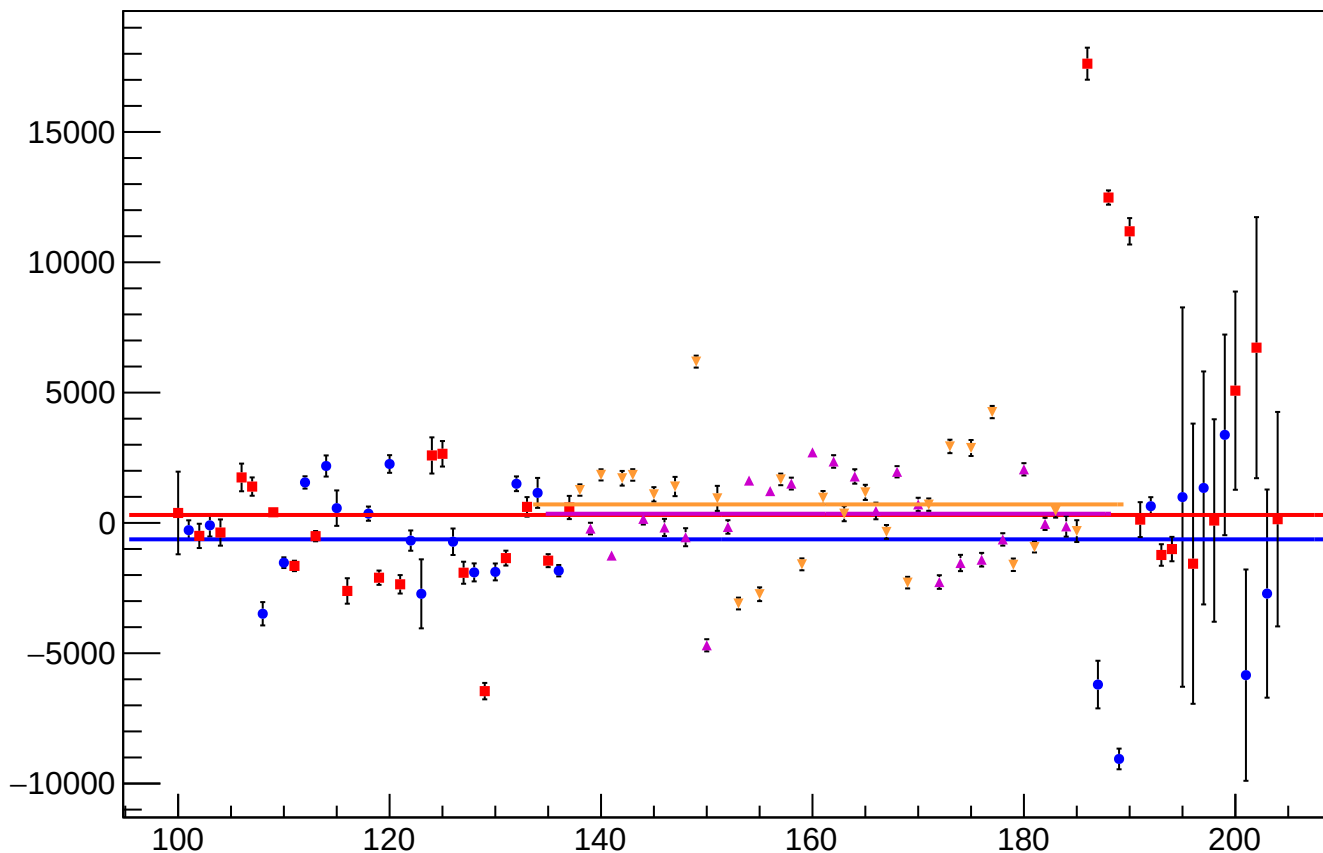
Right: 200.022+/-0.029 χ^2/NDF : 3957894.3/54

In: 202.248+/-0.027 χ^2/NDF : 2558049.9/47

Out: 208.379+/-0.027 χ^2/NDF : 3484073.5/54

All: 205.363+/-0.019 χ^2/NDF : 6067749.6/102

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -630.177 ± 76.462 χ^2/NDF : 917.9/24

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 305.005 ± 67.132 χ^2/NDF : 4164.5/29

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

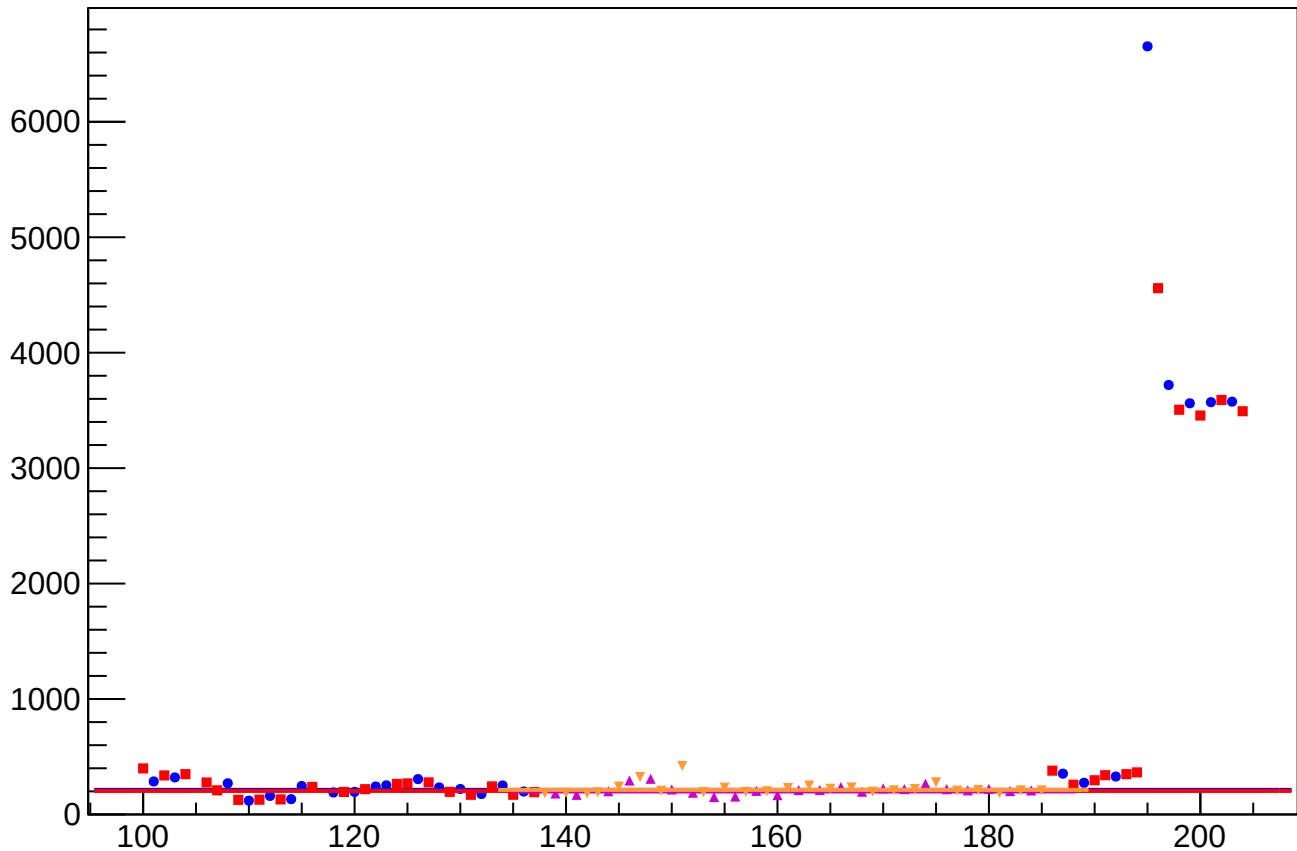
Right: -102.081 ± 50.447 χ^2/NDF : 5166.9/54

In: 63.758 ± 41.444 χ^2/NDF : 2267.6/47

Out: 562.868 ± 40.484 χ^2/NDF : 6120.0/54

All: 319.158 ± 28.960 χ^2/NDF : 8461.8/102

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 213.085+/-0.054 χ^2/NDF : 8407990.0/24

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 203.651+/-0.047 χ^2/NDF : 8829807.4/29

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

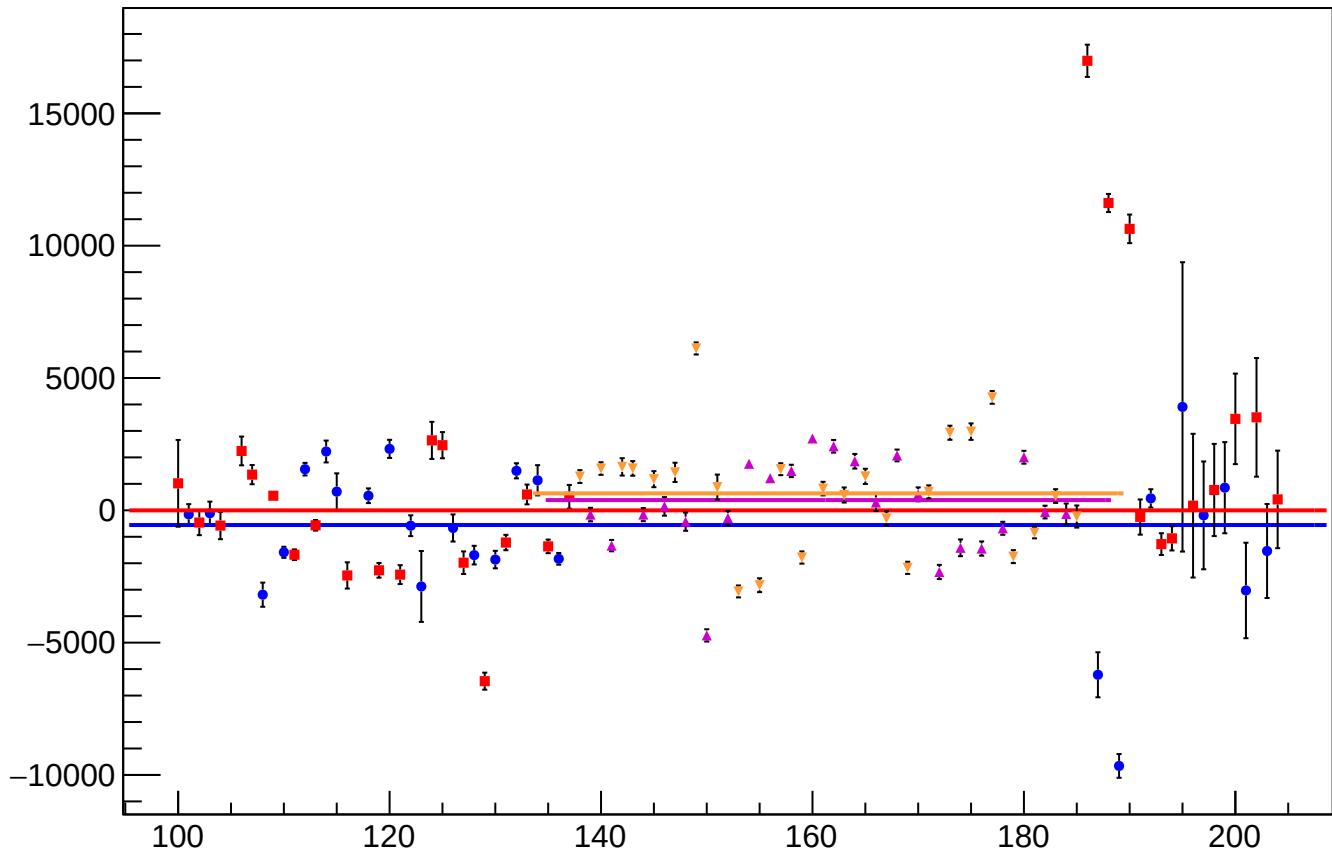
Right: 207.758+/-0.036 χ^2/NDF : 17254988.8/54

In: 203.238+/-0.029 χ^2/NDF : 9440888.5/47

Out: 209.421+/-0.029 χ^2/NDF : 9769249.4/54

All: 206.402+/-0.020 χ^2/NDF : 19232915.6/100

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -555.541 ± 77.584 $\chi^2/\text{NDF}: 862.5/24$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: -1.797 ± 68.894 $\chi^2/\text{NDF}: 3102.7/29$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

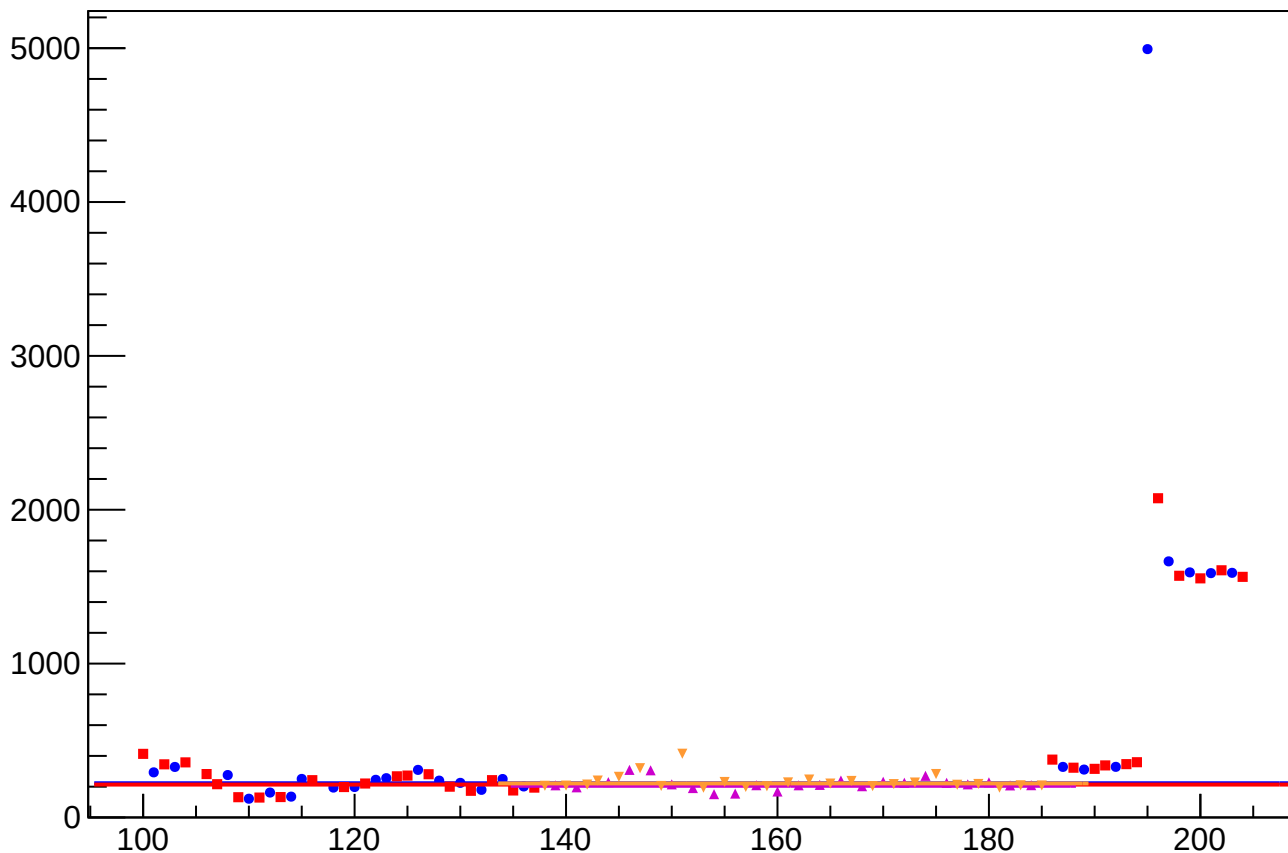
Right: -245.932 ± 51.515 $\chi^2/\text{NDF}: 3993.7/54$

In: 102.131 ± 42.613 $\chi^2/\text{NDF}: 2203.5/47$

Out: 403.034 ± 41.862 $\chi^2/\text{NDF}: 5016.7/54$

All: 255.258 ± 29.863 $\chi^2/\text{NDF}: 7245.5/102$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 222.239+/-0.055 χ^2/NDF : 7485918.9/24

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 213.748+/-0.049 χ^2/NDF : 7750096.0/29

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

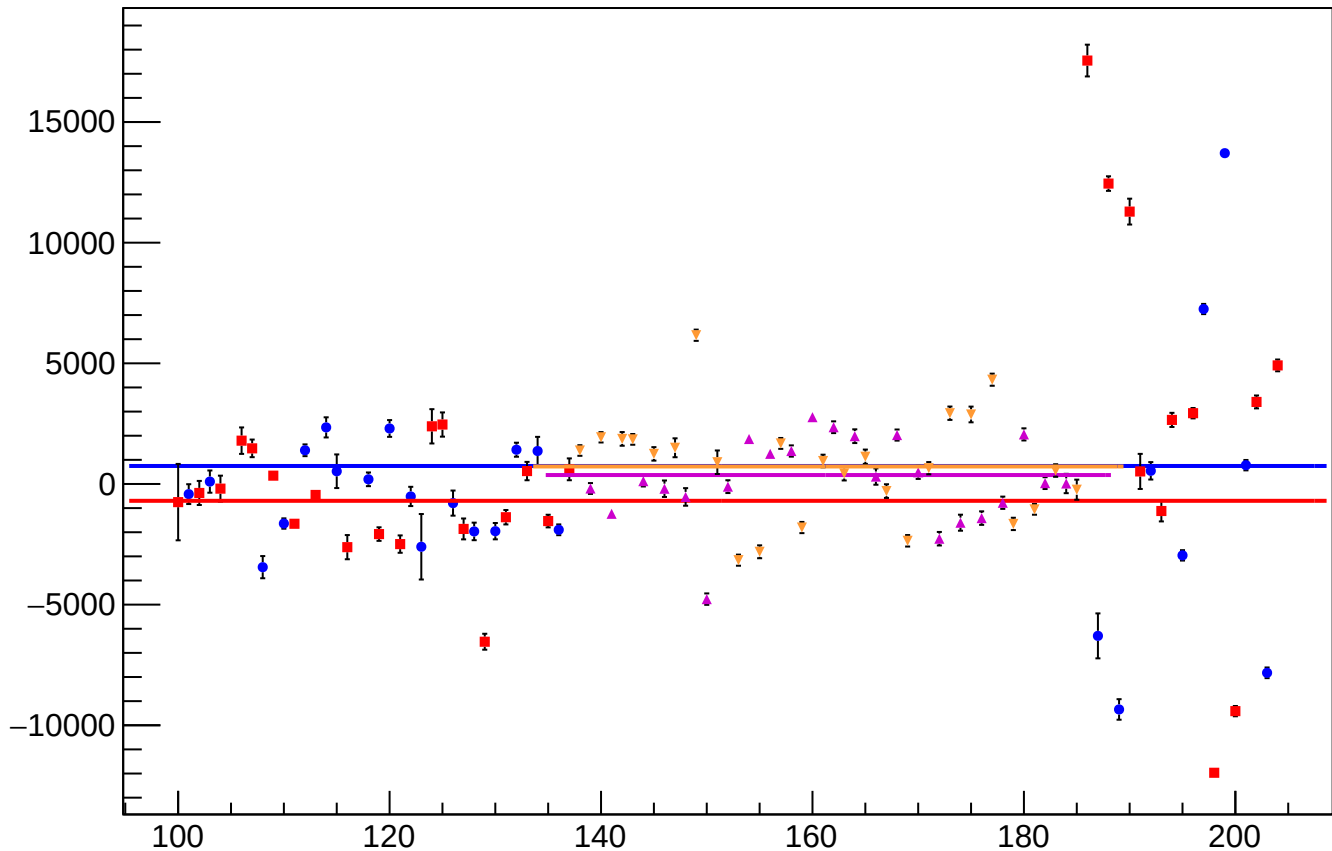
Right: 217.491+/-0.036 χ^2/NDF : 15249409.0/54

In: 210.762+/-0.030 χ^2/NDF : 8543498.8/47

Out: 218.573+/-0.030 χ^2/NDF : 8543486.4/54

All: 214.737+/-0.021 χ^2/NDF : 17121189.5/100

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 745.901 $\pm$ 60.862 χ^2 /NDF: 8232.8/24

Left Out: 725.250 $\pm$ 52.307 χ^2 /NDF:1883.1/24

Right Out: -697.733 $\pm$ 57.044 χ^2 /NDF: 9513.9/29

Left In: 370.408 $\pm$ 50.884 χ^2 /NDF:1223.2/22

Left: 542.938 $\pm$ 36.473 χ^2 /NDF: 3129.9/47

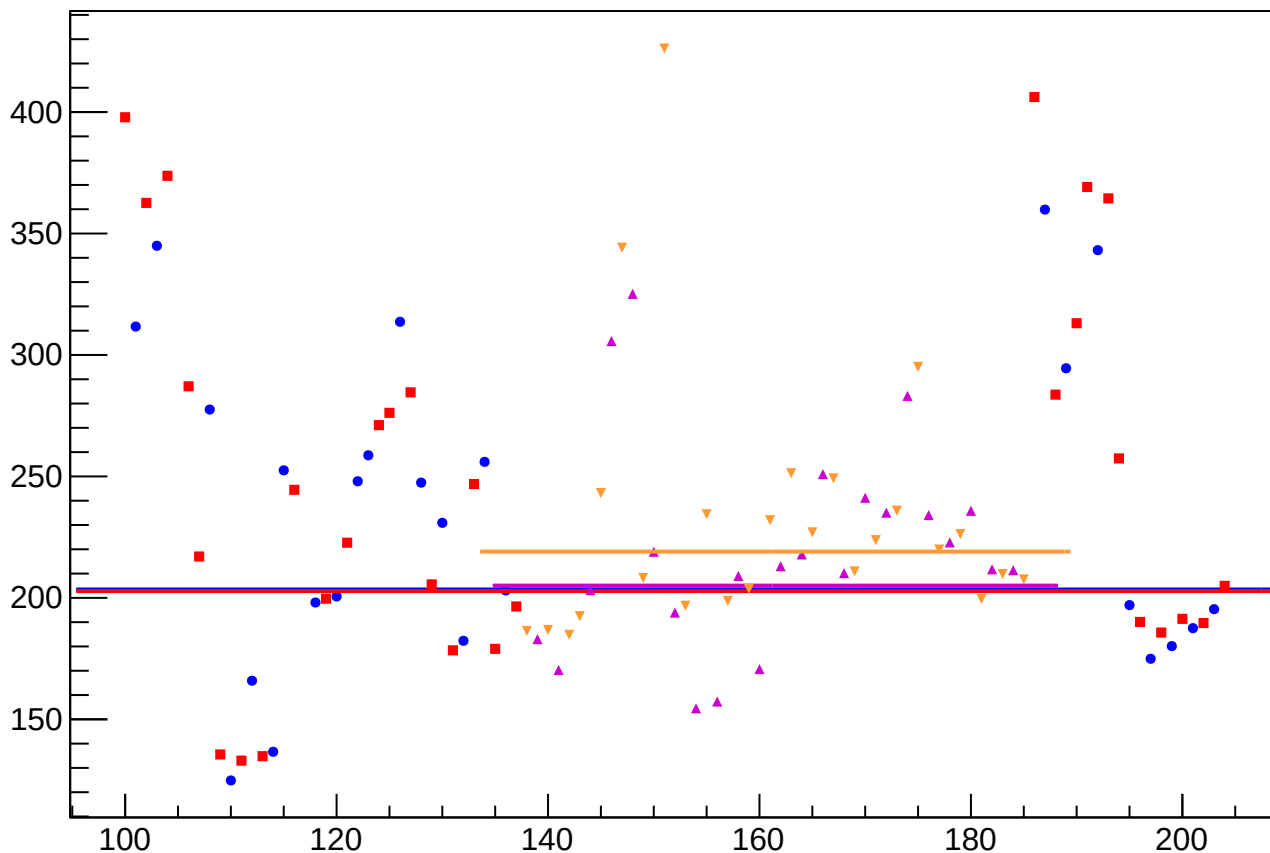
Right: -22.612 $\pm$ 41.620 χ^2 /NDF: 18046.2/54

In: 524.894 $\pm$ 39.038 χ^2 /NDF:9478.3/47

Out: 75.283 $\pm$ 38.553 χ^2 /NDF:11735.1/54

All: 297.276 $\pm$ 27.431 χ^2 /NDF: 21280.6/102

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 203.451 $\pm$ 0.043 χ^2/NDF : 1472253.1/24

Left Out: 219.049 $\pm$ 0.037 χ^2/NDF : 975564.4/24

Right Out: 202.809 $\pm$ 0.040 χ^2/NDF : 2287124.4/29

Left In: 205.046 $\pm$ 0.036 χ^2/NDF : 1144197.1/22

Left: 211.855 $\pm$ 0.026 χ^2/NDF : 2193394.9/47

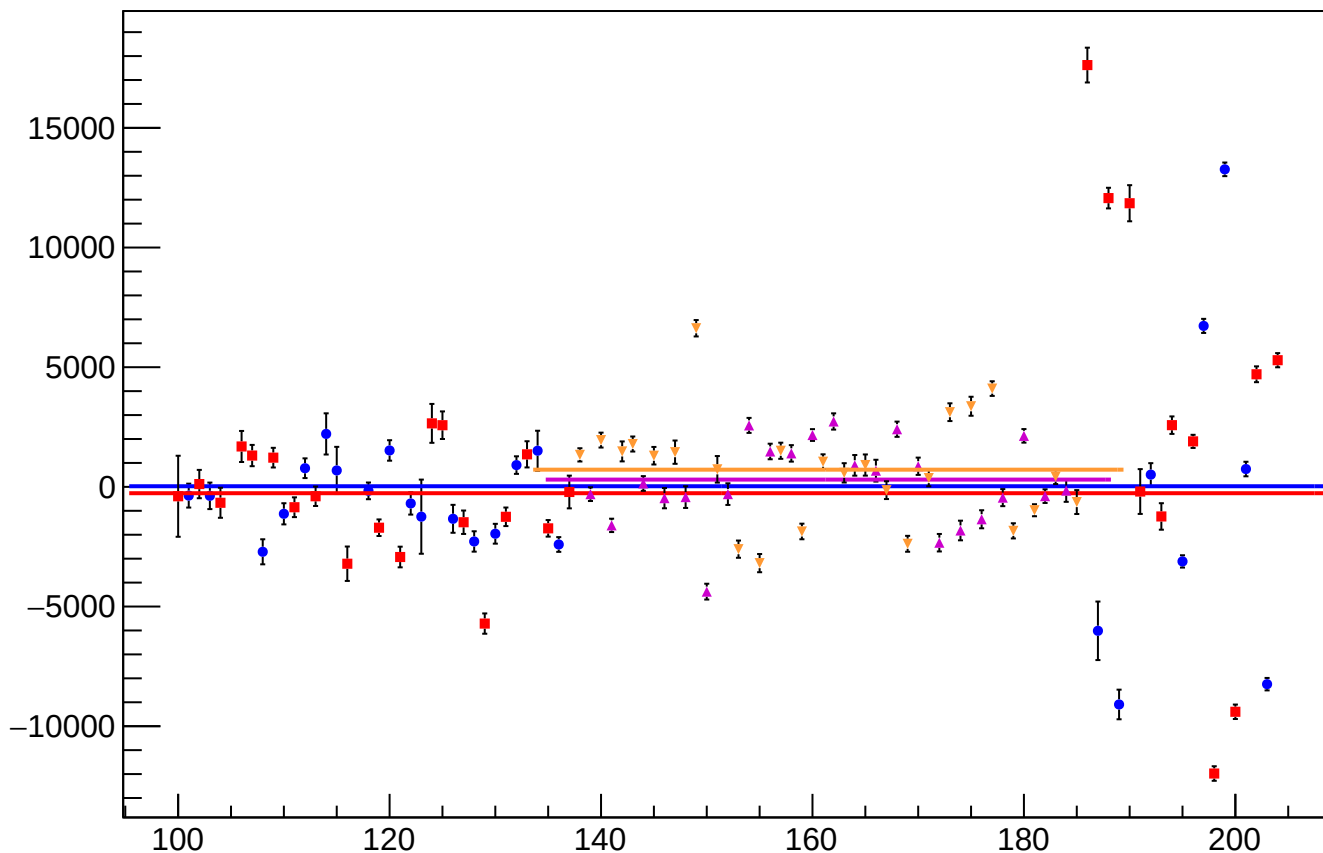
Right: 203.109 $\pm$ 0.029 χ^2/NDF : 3759495.7/54

In: 204.390 $\pm$ 0.028 χ^2/NDF : 2617259.6/47

Out: 211.631 $\pm$ 0.027 χ^2/NDF : 3350739.1/54

All: 208.056 $\pm$ 0.019 χ^2/NDF : 6002835.8/102

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 26.489 $\pm$ 81.941 χ^2/NDF : 4281.7/24

Left Out: 718.705 $\pm$ 69.601 χ^2/NDF : 1018.5/24

Right Out: -264.605 $\pm$ 79.596 χ^2/NDF : 5131.0/29

Left In: 304.161 $\pm$ 70.958 χ^2/NDF : 643.5/22

Left: 515.435 $\pm$ 49.688 χ^2/NDF : 1679.4/47

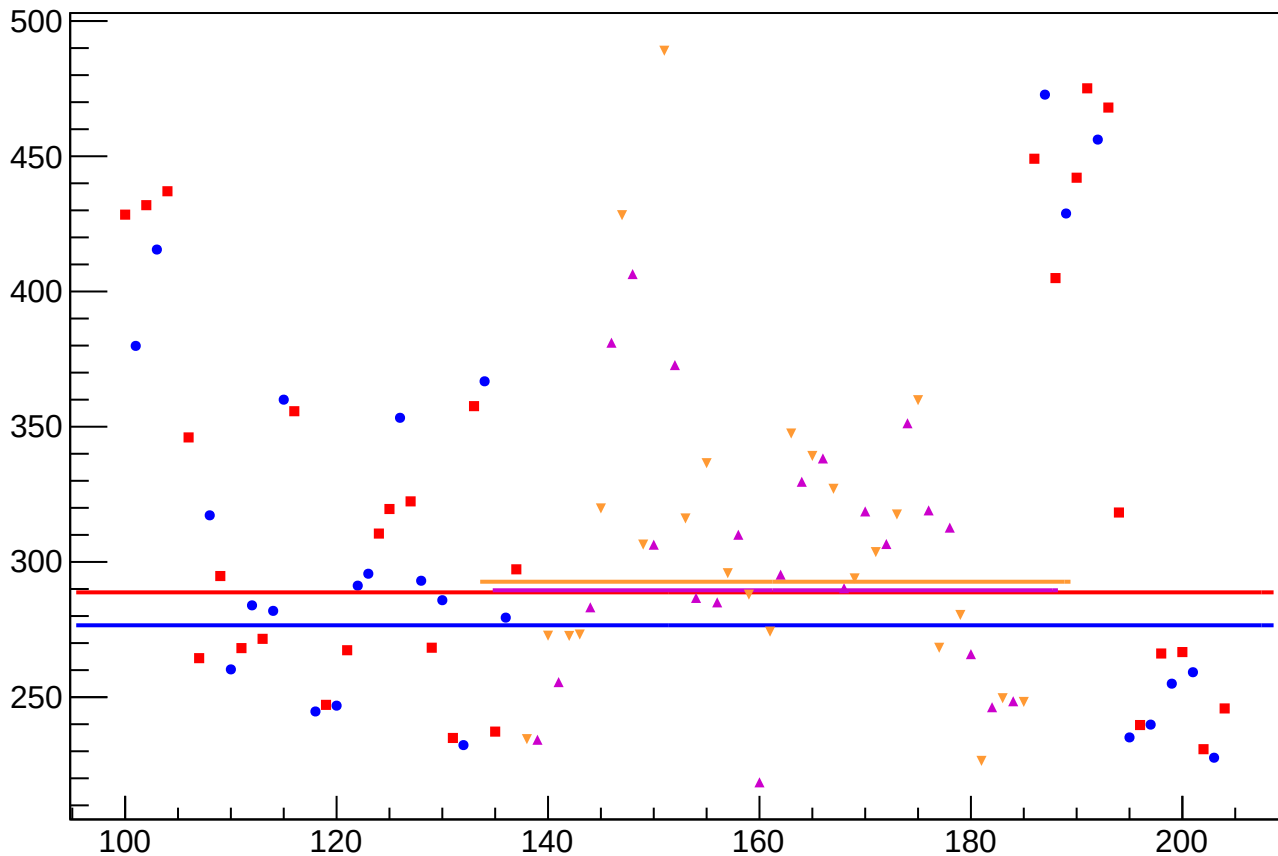
Right: -123.283 $\pm$ 57.094 χ^2/NDF : 9419.2/54

In: 185.169 $\pm$ 53.641 χ^2/NDF : 4931.7/47

Out: 292.632 $\pm$ 52.395 χ^2/NDF : 6236.0/54

All: 240.163 $\pm$ 37.481 χ^2/NDF : 11169.8/102

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 276.577 $\pm$ 0.058 χ^2 /NDF: 985534.6/24

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 288.754 $\pm$ 0.056 χ^2 /NDF: 1276059.8/29

Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2 /NDF: 1705121.5/47

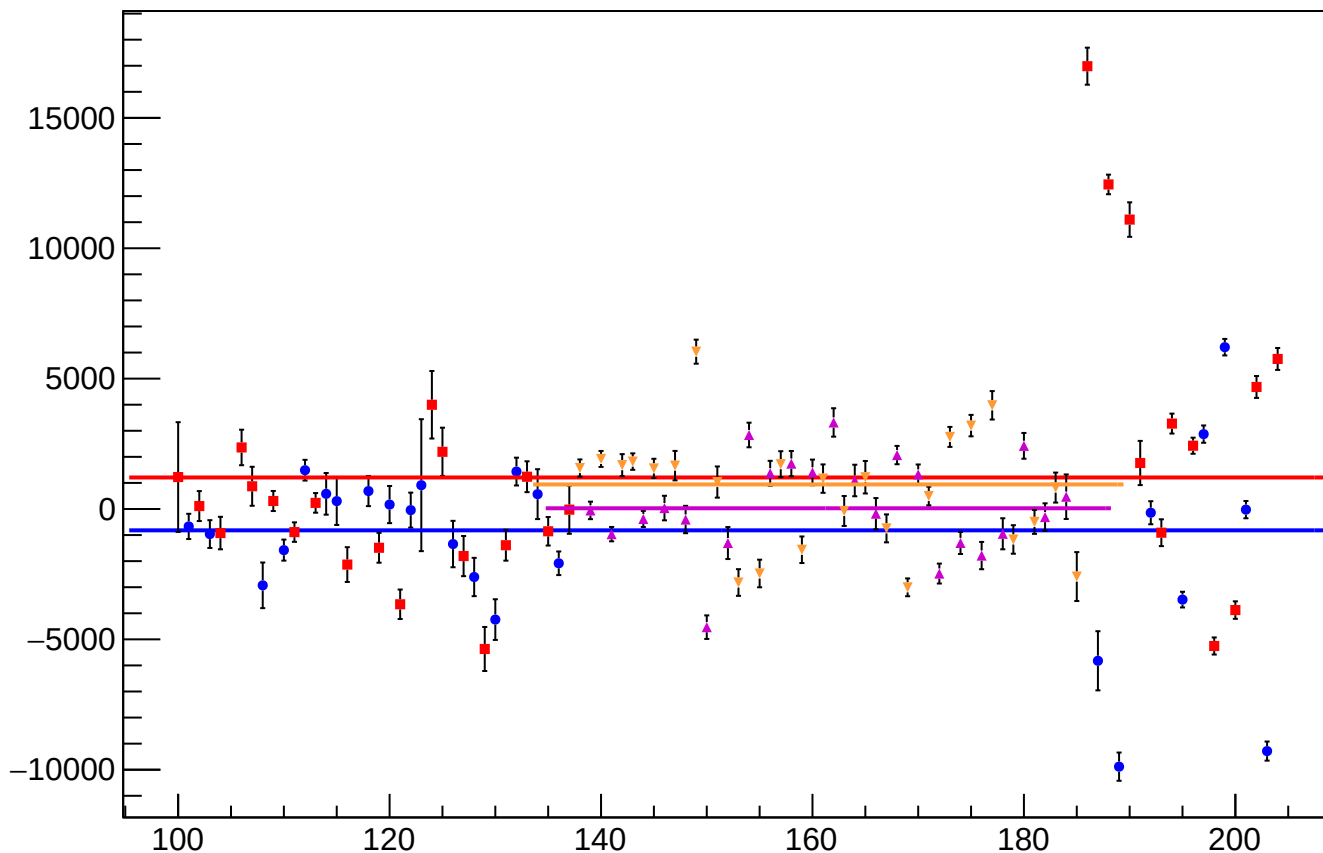
Right: 282.842 $\pm$ 0.040 χ^2 /NDF: 2284322.1/54

In: 283.974 $\pm$ 0.038 χ^2 /NDF: 1791960.0/47

Out: 290.982 $\pm$ 0.037 χ^2 /NDF: 2204018.4/54

All: 287.561 $\pm$ 0.027 χ^2 /NDF: 4013448.4/102

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -818.920 ± 99.070 $\chi^2/\text{NDF}: 1647.1/24$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1208.826 ± 92.214 $\chi^2/\text{NDF}: 2777.8/29$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

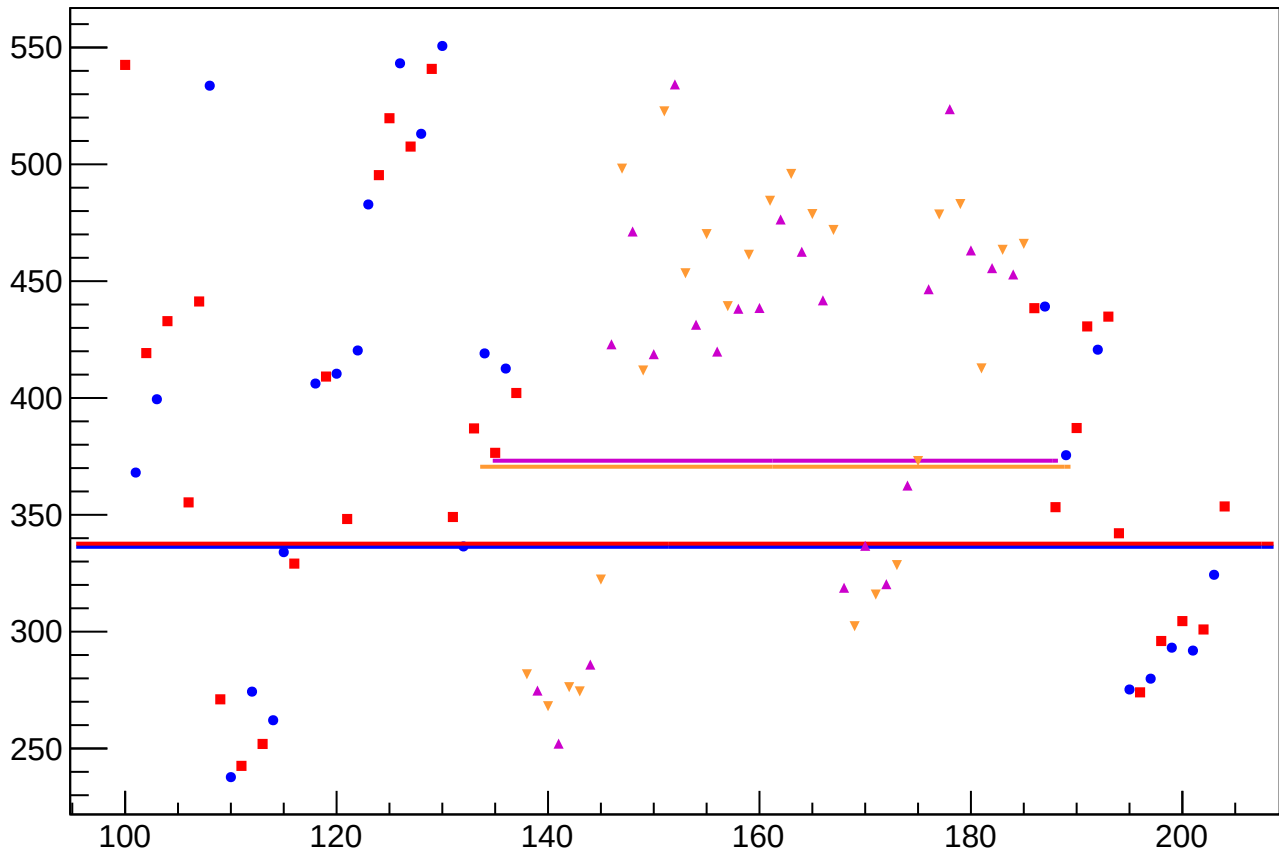
Right: 267.545 ± 67.499 $\chi^2/\text{NDF}: 4649.4/54$

In: -365.804 ± 67.545 $\chi^2/\text{NDF}: 2048.7/47$

Out: 1070.653 ± 64.083 $\chi^2/\text{NDF}: 3326.8/54$

All: 390.180 ± 46.489 $\chi^2/\text{NDF}: 5613.5/102$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 336.321 $\pm$ 0.070 χ^2 /NDF: 1174470.7/24

Left Out: 370.580 $\pm$ 0.063 χ^2 /NDF:1878118.9/24

Right Out: 337.657 $\pm$ 0.065 χ^2 /NDF: 1131380.7/29

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

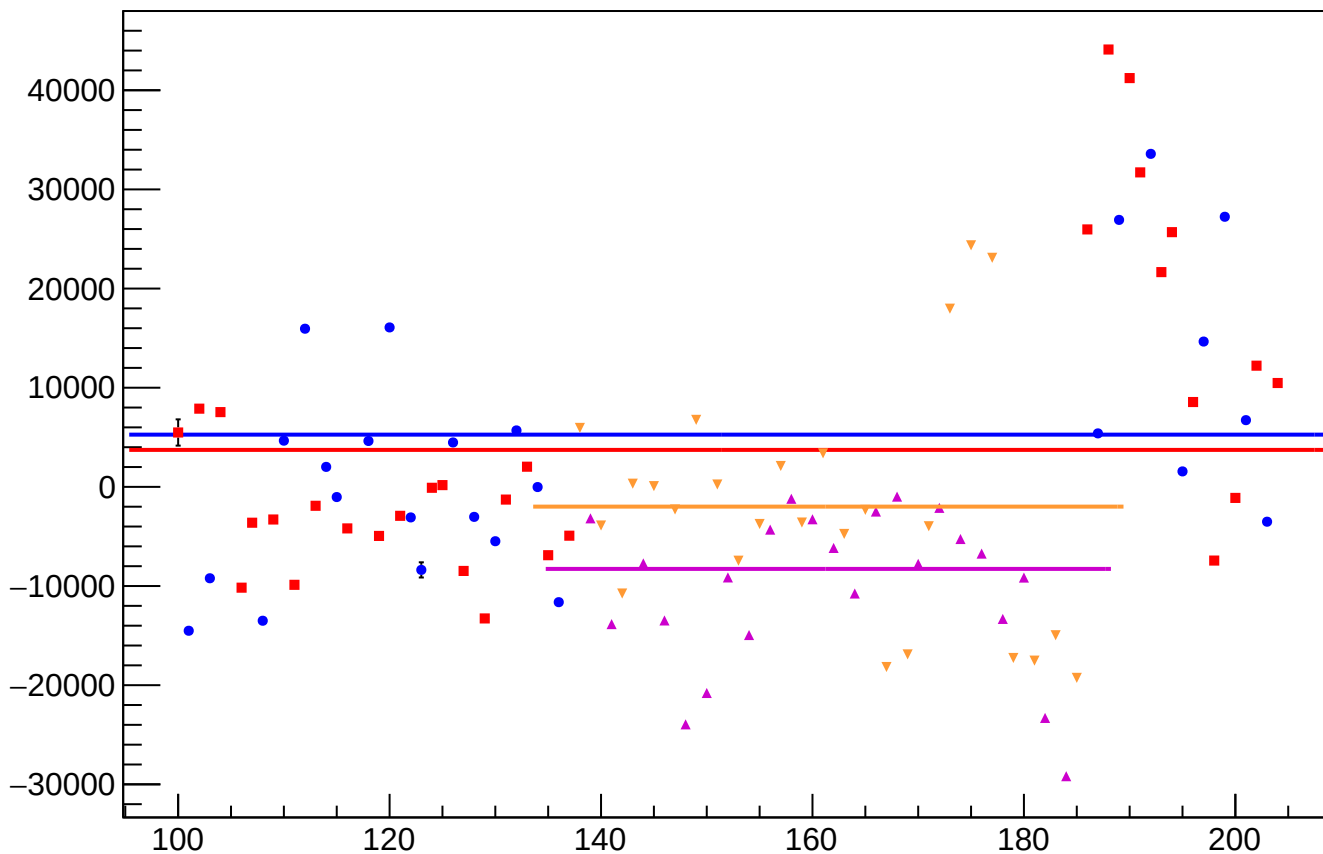
Right: 337.037 $\pm$ 0.048 χ^2 /NDF: 2306046.3/54

In: 356.036 $\pm$ 0.048 χ^2 /NDF:2958715.3/47

Out: 354.680 $\pm$ 0.045 χ^2 /NDF:3141314.0/54

All: 355.323 $\pm$ 0.033 χ^2 /NDF: 6100453.7/102

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5267.696+/-44.348 χ^2/NDF : 86495.0/24

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 3728.782+/-41.326 χ^2/NDF : 132938.1/29

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

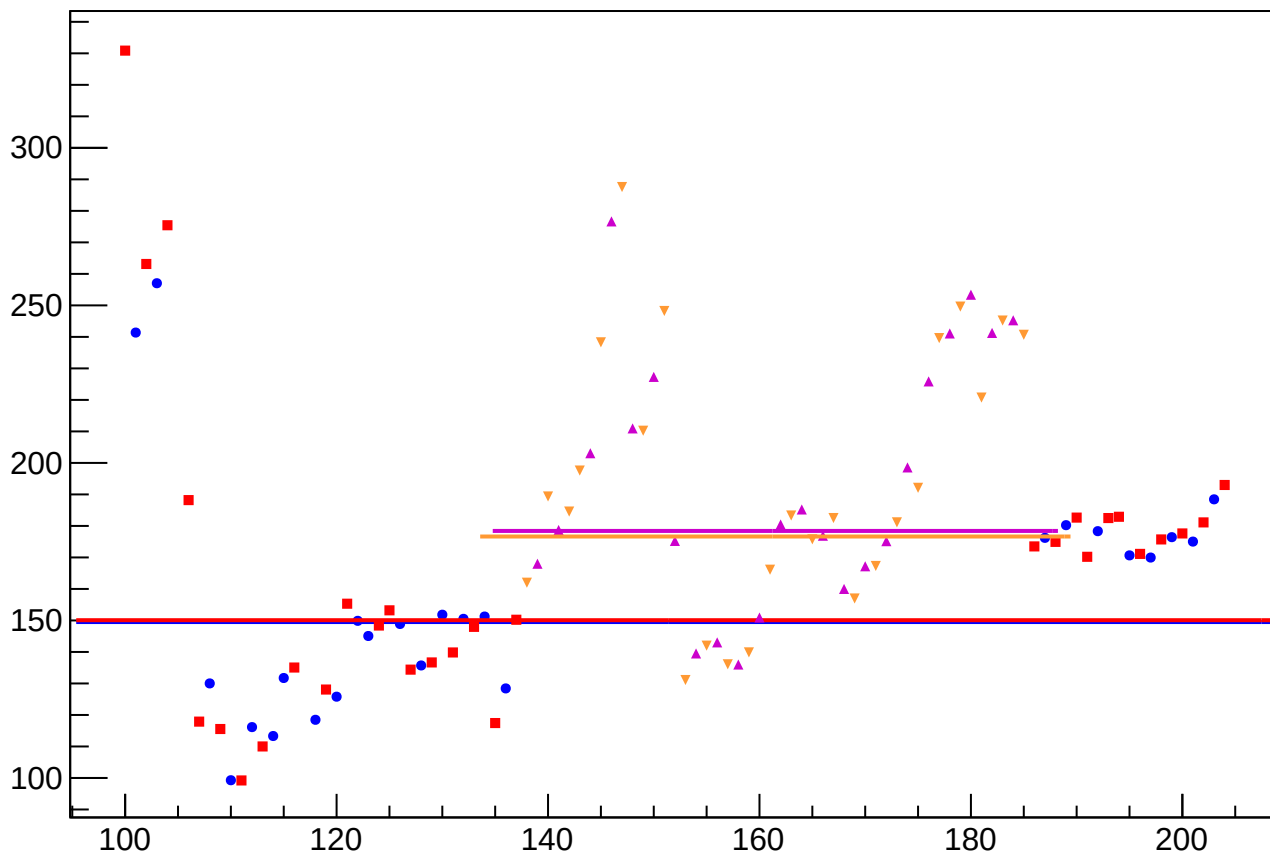
Right: 4444.025+/-30.234 χ^2/NDF : 220077.5/54

In: -1509.965+/-31.342 χ^2/NDF : 156028.3/47

Out: 943.643+/-29.604 χ^2/NDF : 206033.6/54

All: -213.216+/-21.521 χ^2/NDF : 365300.8/100

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 149.494 $\pm$ 0.031 χ^2/NDF : 1064776.5/24

Left Out: 176.641 $\pm$ 0.030 χ^2/NDF :1551048.8/24

Right Out: 150.078 $\pm$ 0.029 χ^2/NDF : 1426076.3/29

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

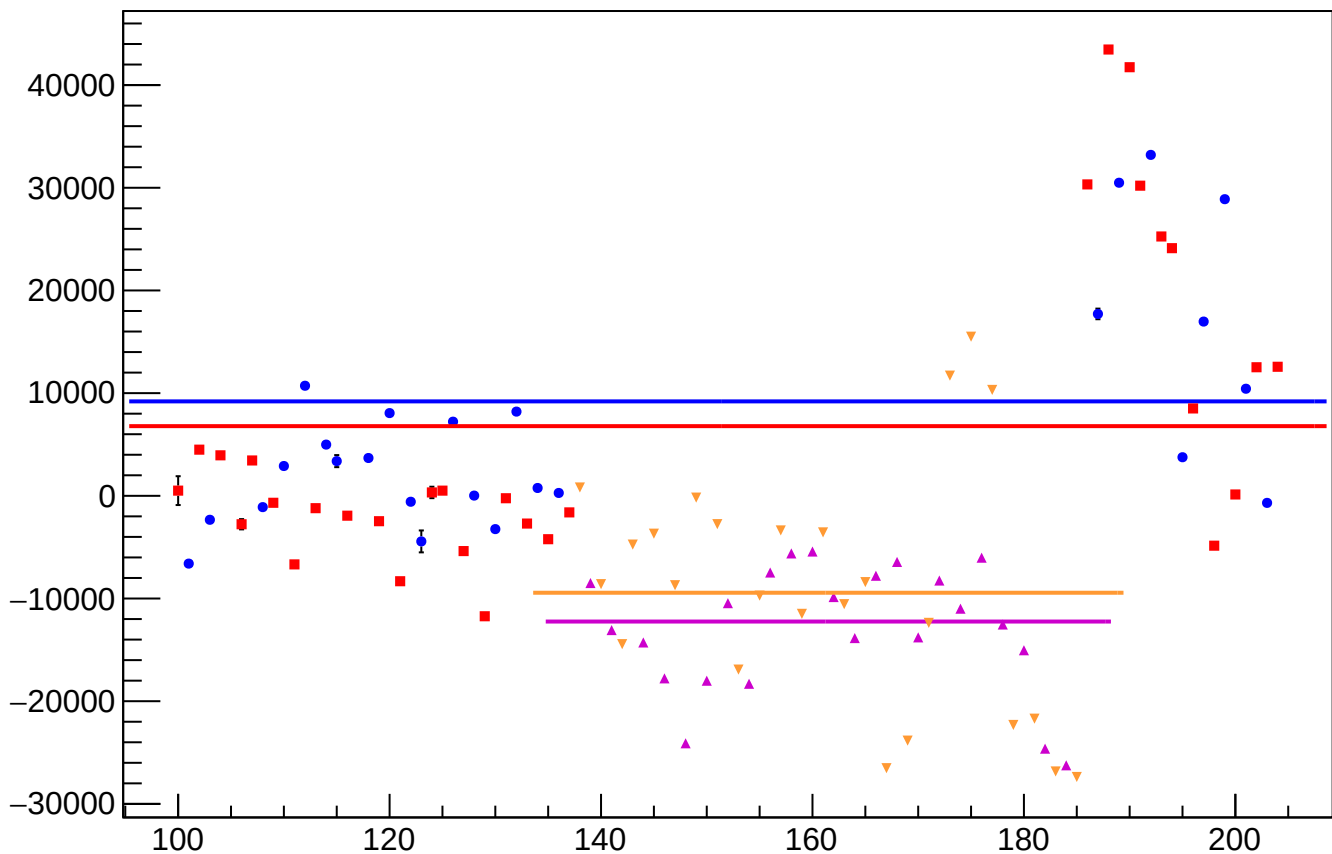
Right: 149.807 $\pm$ 0.021 χ^2/NDF : 2491038.7/54

In: 163.969 $\pm$ 0.022 χ^2/NDF :2784198.7/47

Out: 163.011 $\pm$ 0.021 χ^2/NDF :3379399.9/54

All: 163.462 $\pm$ 0.015 χ^2/NDF : 6164586.9/102

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9197.469+/-51.213

χ^2/NDF : 48378.8/24

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 7890.381+/-34.658

χ^2/NDF : 152505.5/54

Right Out: 6785.932+/-47.076

χ^2/NDF : 102925.0/29

In: -3150.561+/-33.350

χ^2/NDF : 165932.5/47

Out: -1595.768+/-32.729

χ^2/NDF : 226503.1/54

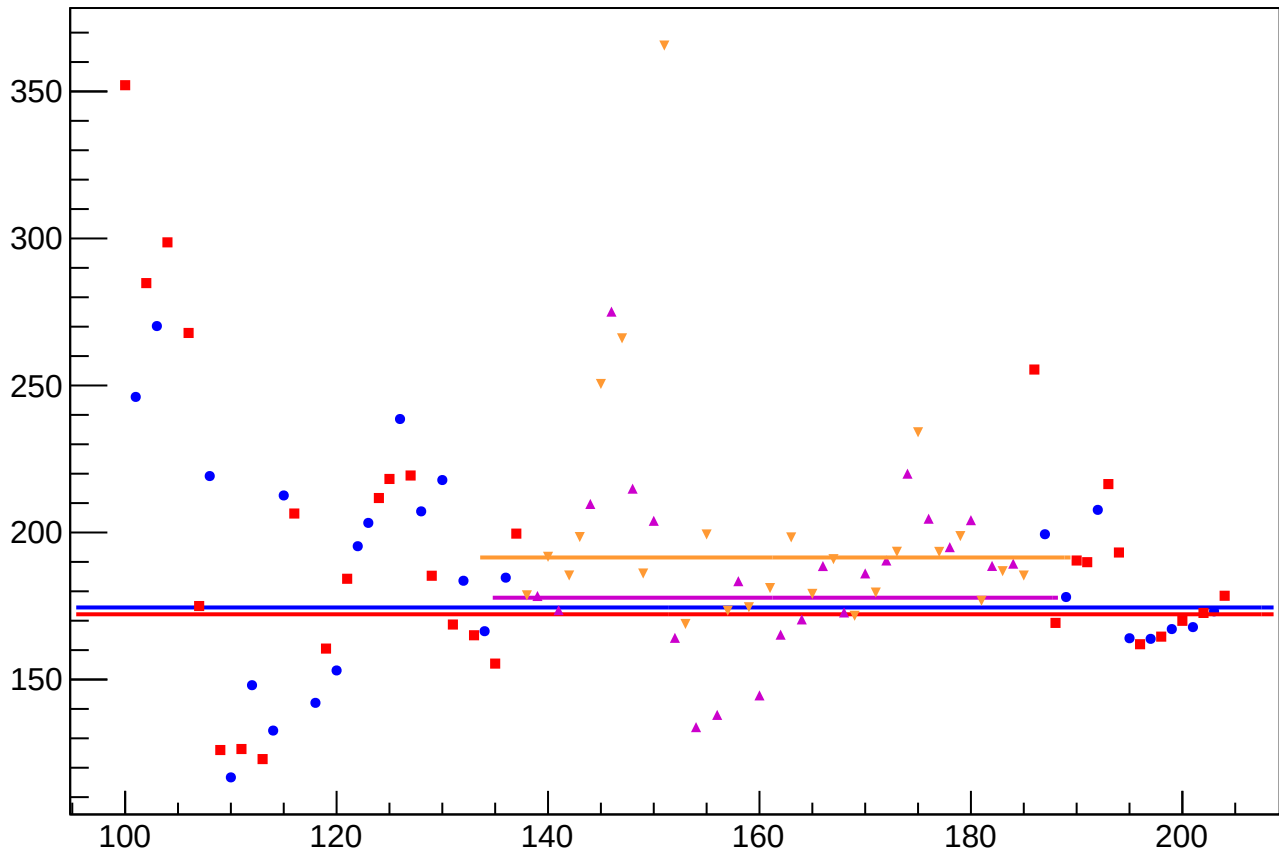
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -2358.562+/-23.359

χ^2/NDF : 393542.7/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.506 ± 0.036 $\chi^2/\text{NDF}: 758144.9/24$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 172.183 ± 0.033 $\chi^2/\text{NDF}: 1125496.9/29$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

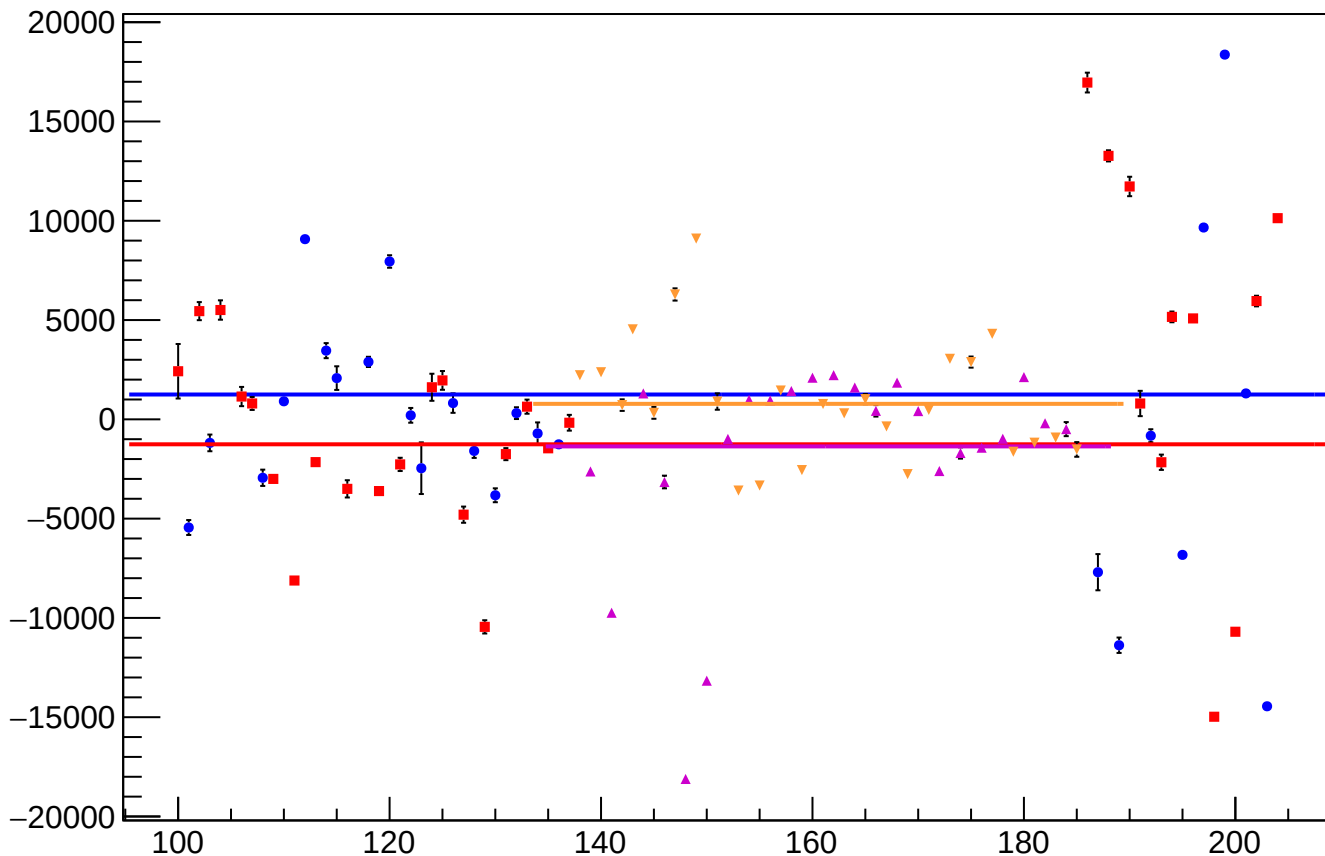
Right: 173.247 ± 0.025 $\chi^2/\text{NDF}: 1885870.9/54$

In: 176.415 ± 0.024 $\chi^2/\text{NDF}: 1625468.0/47$

Out: 182.167 ± 0.023 $\chi^2/\text{NDF}: 2026844.3/54$

All: 179.345 ± 0.017 $\chi^2/\text{NDF}: 3682611.2/102$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1250.674+/-57.546 χ^2/NDF : 19635.7/24

Left Out: 779.983+/-47.457 χ^2/NDF :4260.8/24

Right Out: -1256.803+/-53.308 χ^2/NDF : 18889.4/29

Left In: -1363.043+/-45.807 χ^2/NDF :11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

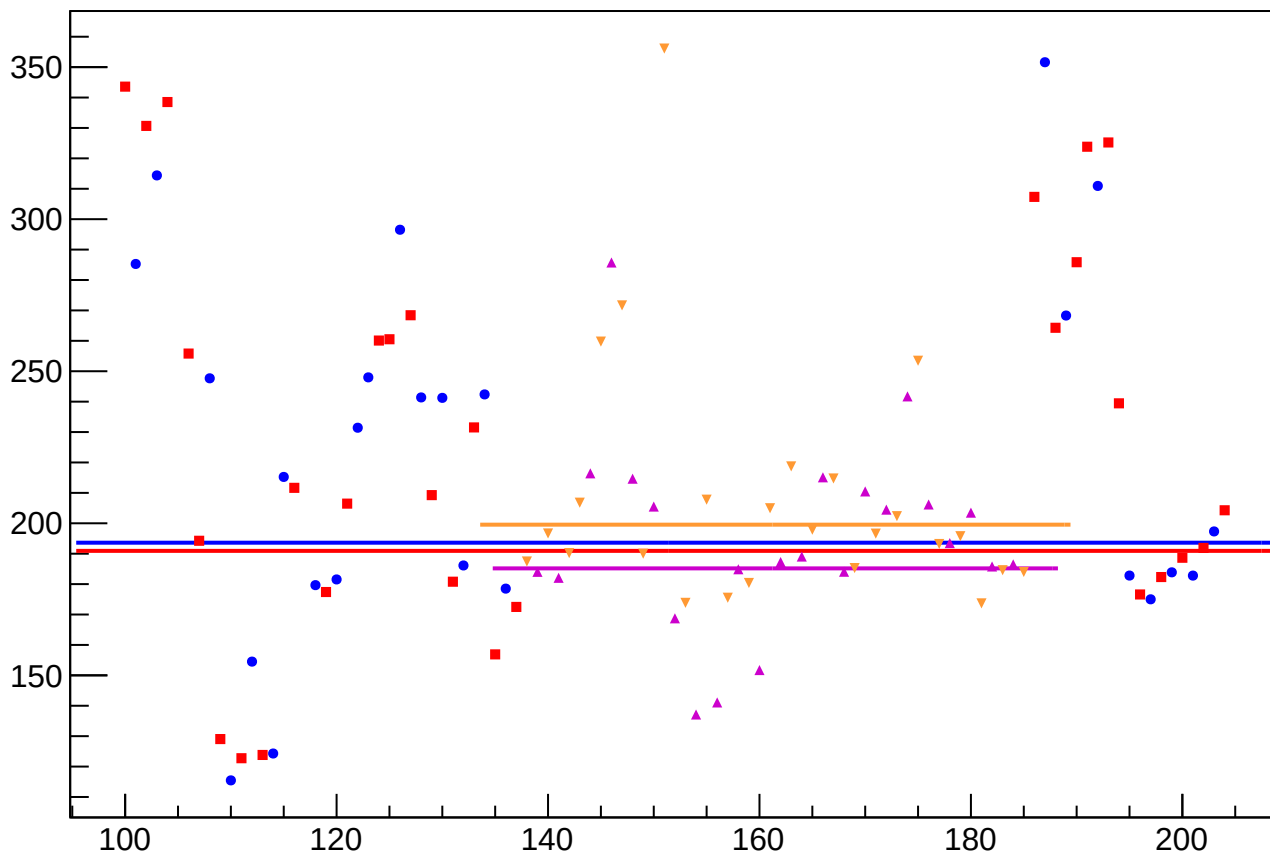
Right: -98.801+/-39.107 χ^2/NDF : 39546.9/54

In: -349.291+/-35.839 χ^2/NDF :32531.4/47

Out: -120.553+/-35.446 χ^2/NDF :23964.6/54

All: -233.661+/-25.202 χ^2/NDF : 56516.6/102

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.619 ± 0.041 $\chi^2/\text{NDF}: 1406821.6/24$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 190.932 ± 0.038 $\chi^2/\text{NDF}: 2134116.7/29$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

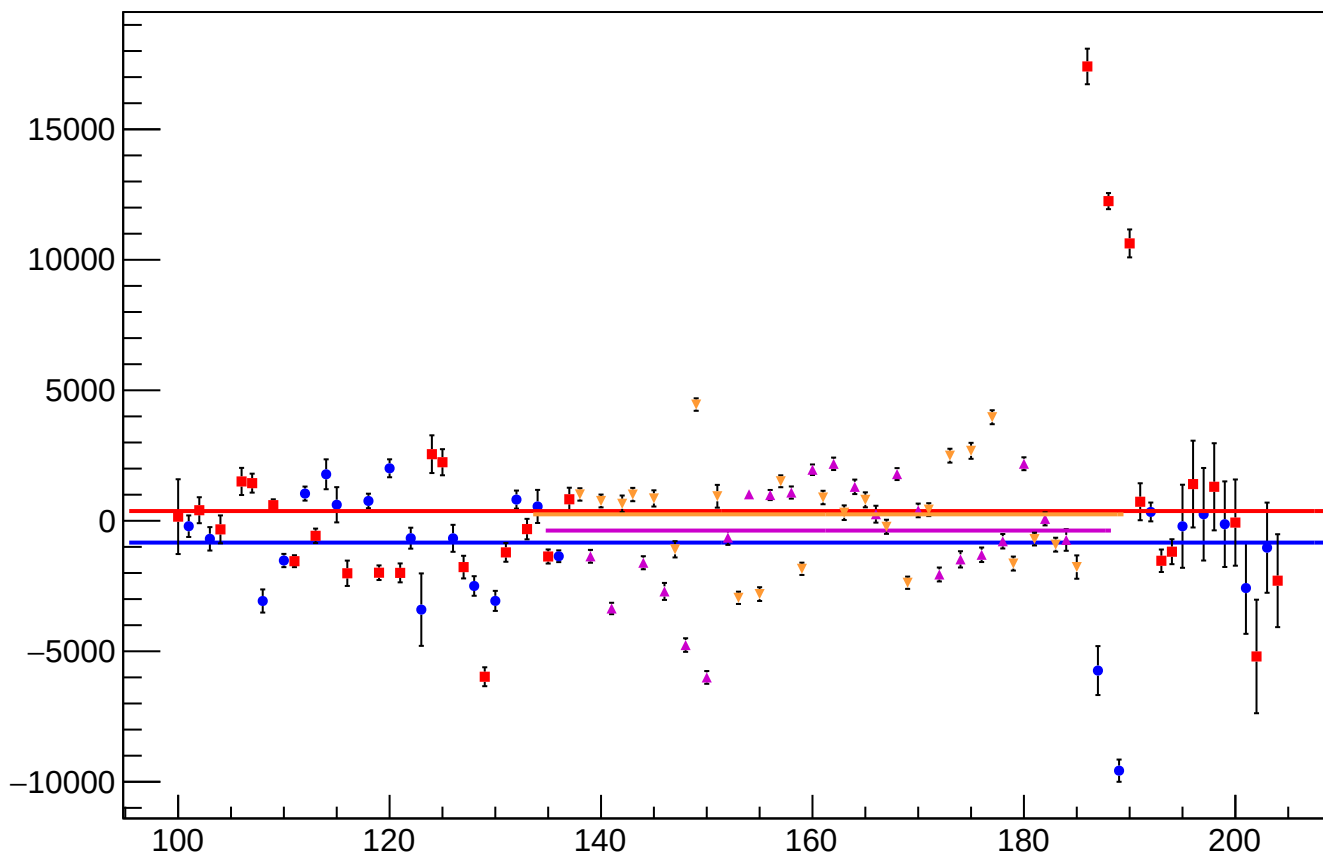
Right: 192.173 ± 0.028 $\chi^2/\text{NDF}: 3543286.1/54$

In: 188.447 ± 0.025 $\chi^2/\text{NDF}: 2315962.7/47$

Out: 195.738 ± 0.025 $\chi^2/\text{NDF}: 2892614.0/54$

All: 192.133 ± 0.018 $\chi^2/\text{NDF}: 5250411.6/102$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.352 ± 83.641 $\chi^2/\text{NDF}: 761.2/24$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 373.180 ± 75.073 $\chi^2/\text{NDF}: 3171.4/29$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

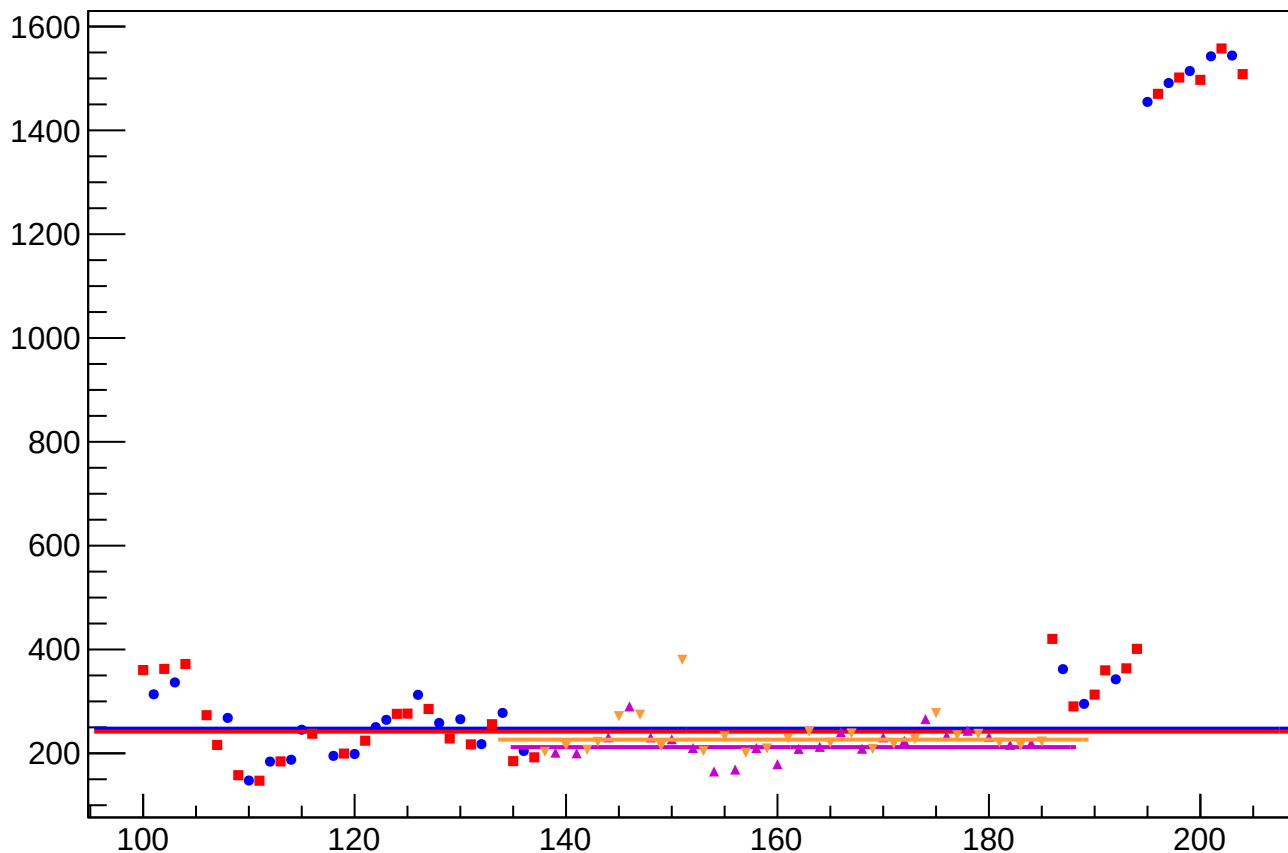
Right: -166.037 ± 55.869 $\chi^2/\text{NDF}: 4048.2/54$

In: -502.873 ± 44.191 $\chi^2/\text{NDF}: 2584.1/47$

Out: 290.115 ± 43.598 $\chi^2/\text{NDF}: 4528.3/54$

All: -101.024 ± 31.036 $\chi^2/\text{NDF}: 7275.6/102$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 247.535 $\pm$ 0.059 χ^2 /NDF: 6556667.9/24

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 241.707 $\pm$ 0.053 χ^2 /NDF: 6982042.3/29

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

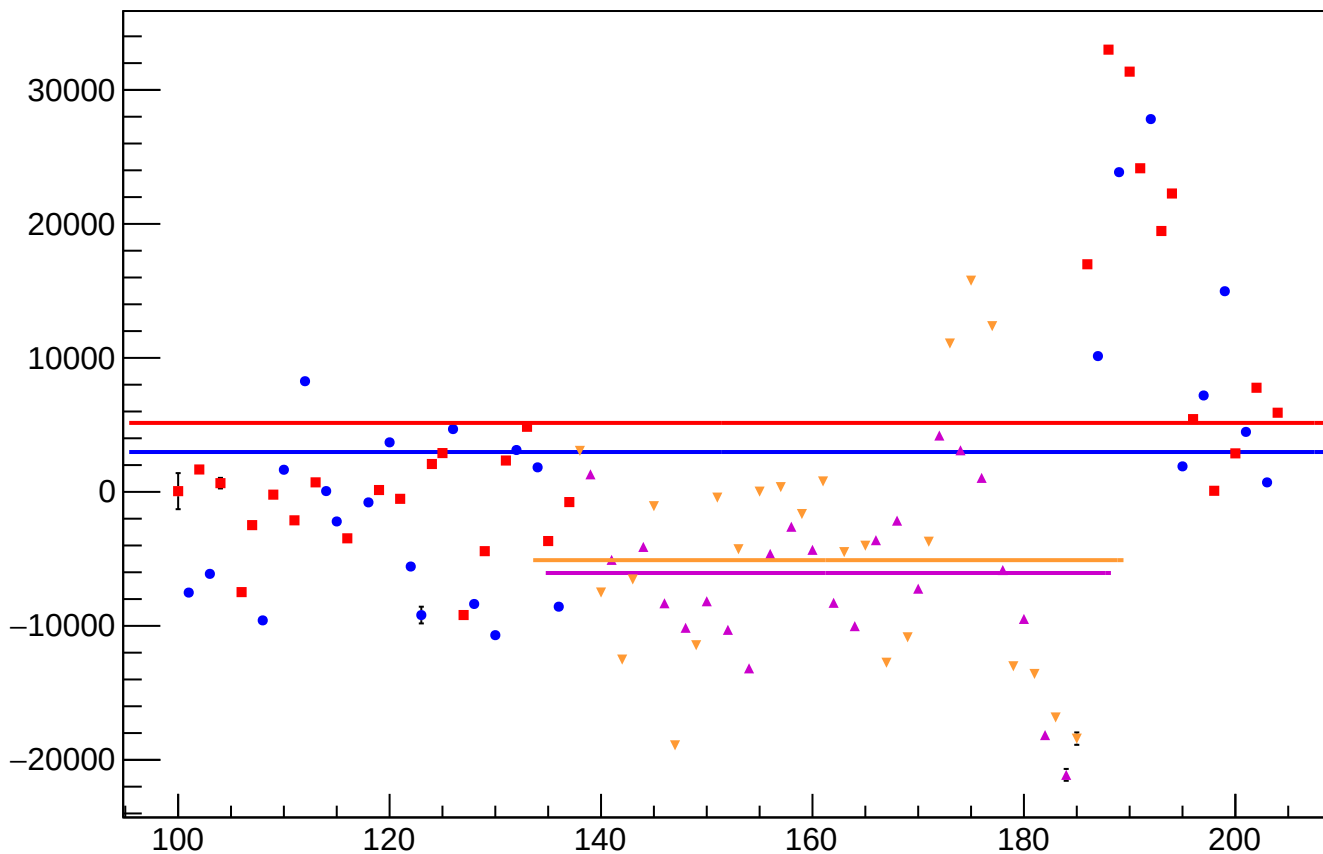
Right: 244.307 $\pm$ 0.040 χ^2 /NDF: 13544088.1/54

In: 221.898 $\pm$ 0.031 χ^2 /NDF: 7401672.5/47

Out: 231.511 $\pm$ 0.031 χ^2 /NDF: 7558750.3/54

All: 226.769 $\pm$ 0.022 χ^2 /NDF: 15008378.0/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 2975.453+/-37.694

χ^2/NDF : 73382.5/24

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right Out: 5147.498+/-34.813

χ^2/NDF : 101013.7/29

Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Right: 4147.654+/-25.575

χ^2/NDF : 176188.1/54

In: -1873.514+/-25.648

χ^2/NDF : 121785.9/47

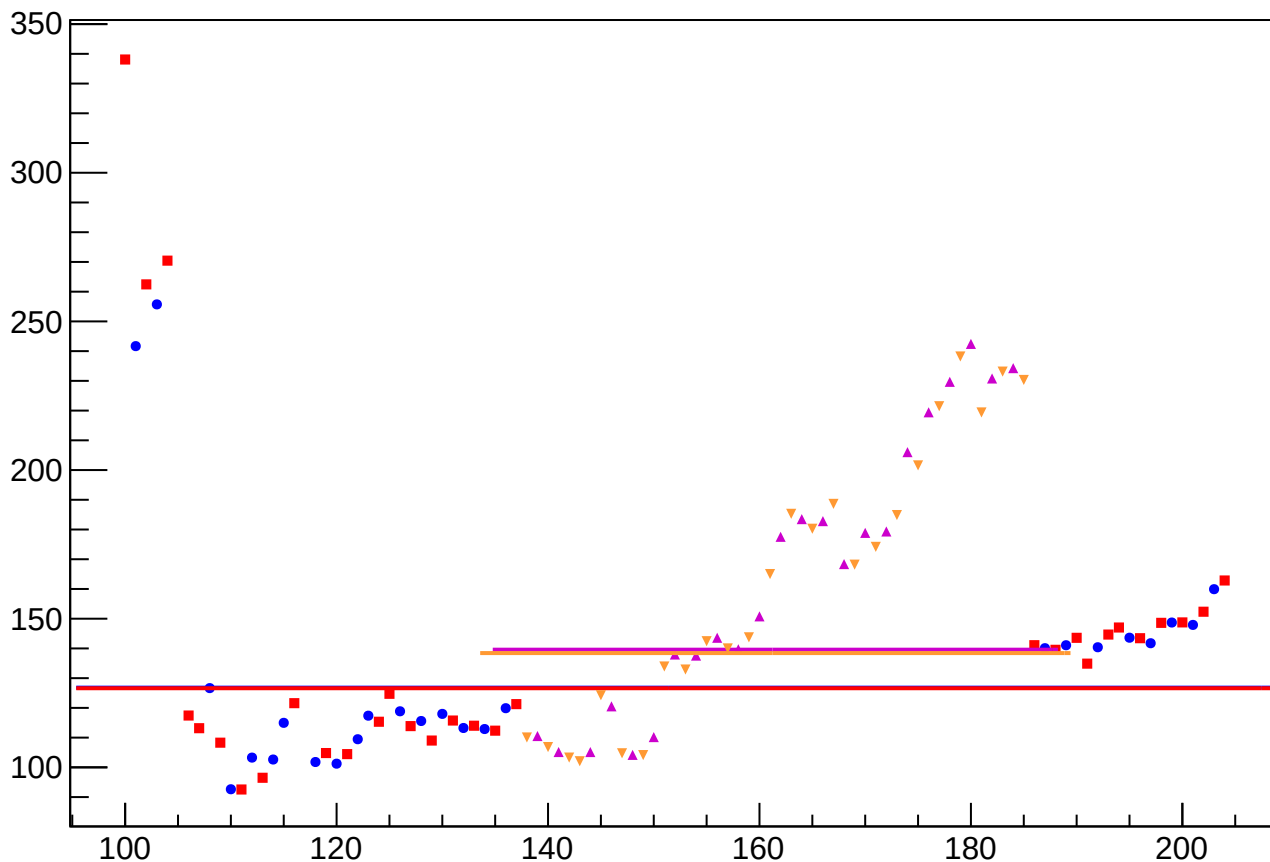
Out: -139.738+/-24.215

χ^2/NDF : 200094.3/54

All: -956.842+/-17.607

χ^2/NDF : 324296.2/100

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 126.806 $\pm$ 0.027 χ^2 /NDF: 1057771.1/24

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF:2549435.8/24

Right Out: 126.609 $\pm$ 0.025 χ^2 /NDF: 1252162.1/29

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

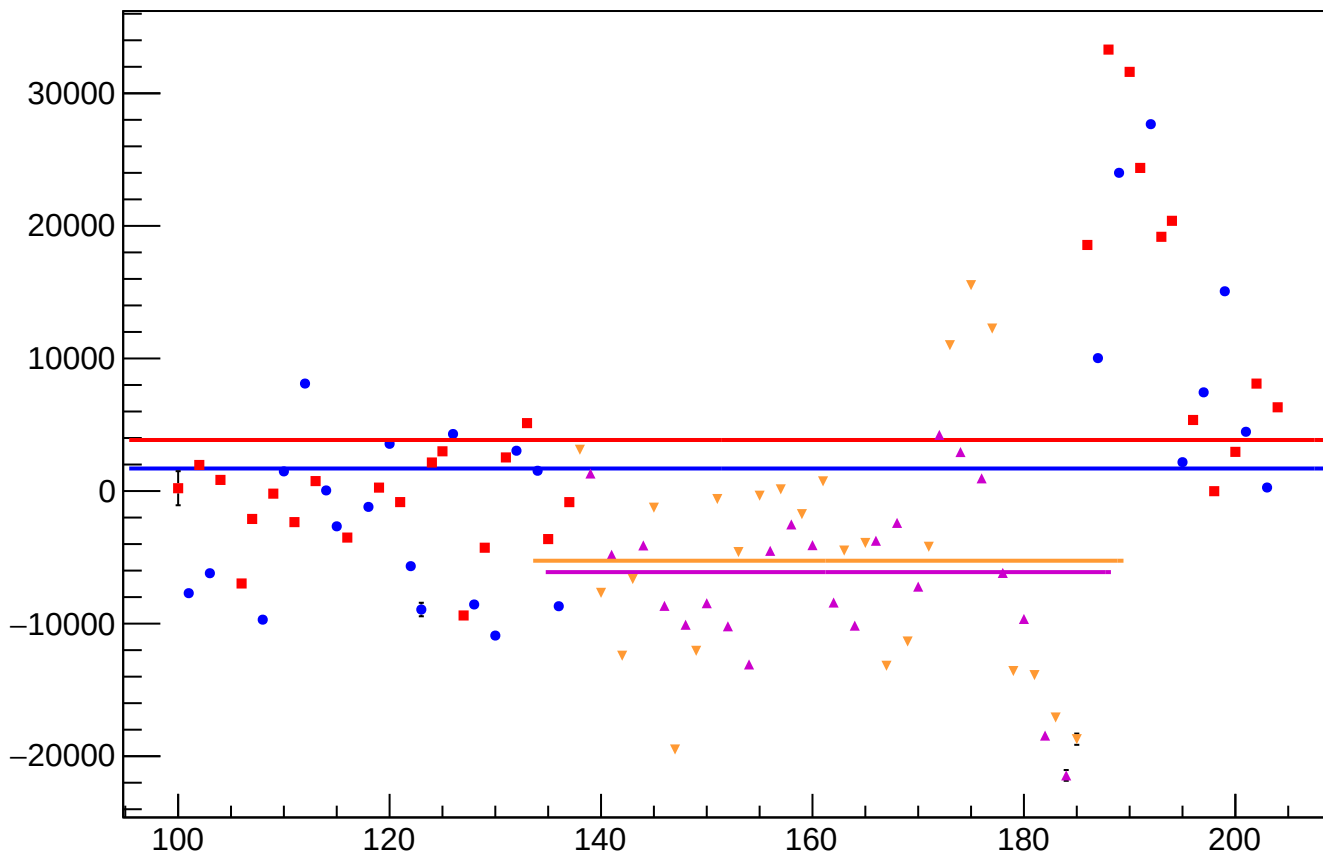
Right: 126.700 $\pm$ 0.018 χ^2 /NDF: 2309962.6/54

In: 133.665 $\pm$ 0.018 χ^2 /NDF:3594729.9/47

Out: 132.714 $\pm$ 0.017 χ^2 /NDF:3920734.8/54

All: 133.162 $\pm$ 0.012 χ^2 /NDF: 7516918.7/102

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 1700.749+/-33.569

χ^2/NDF : 80344.2/24

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 3850.746+/-31.225

χ^2/NDF : 108285.5/29

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 2853.396+/-22.863

χ^2/NDF : 190828.9/54

In: -2378.666+/-23.210

χ^2/NDF : 129899.2/47

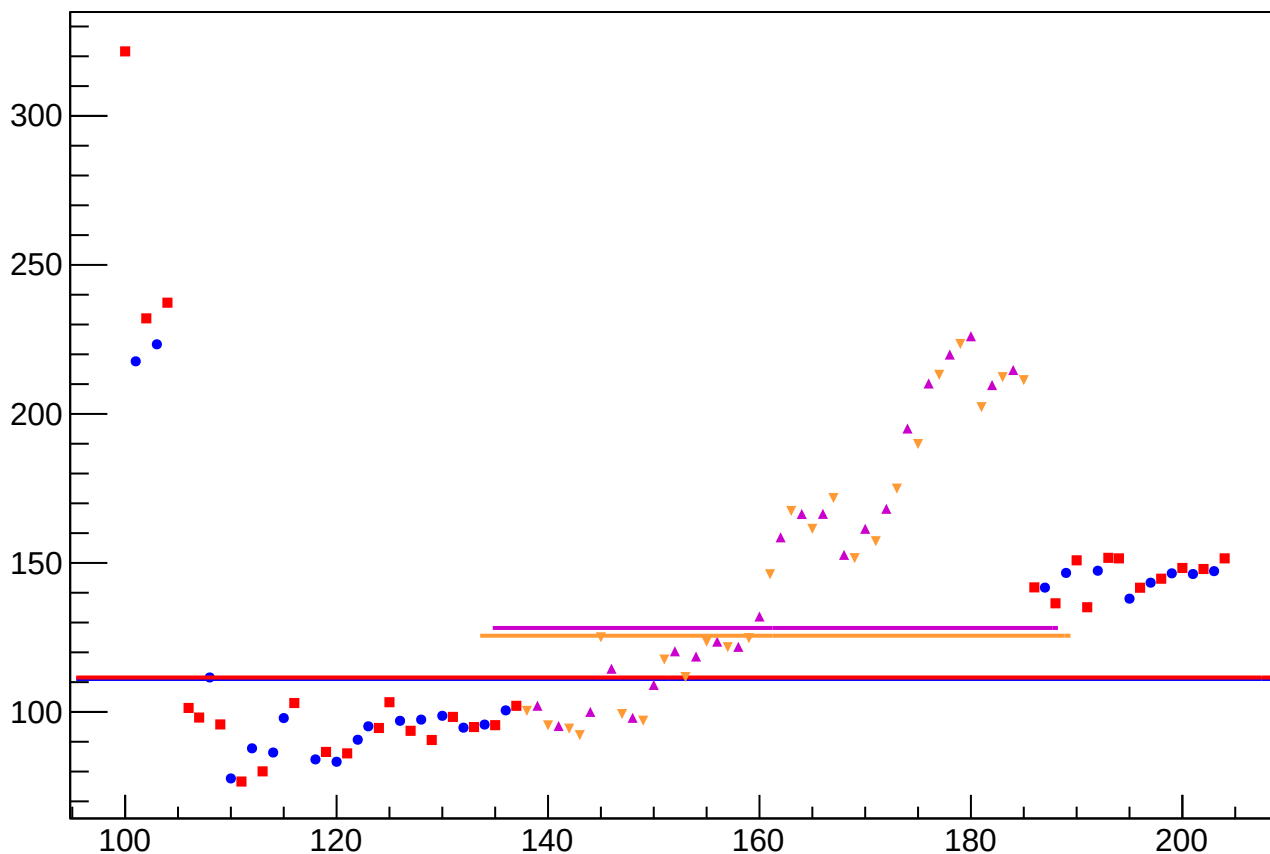
Out: -791.309+/-21.863

χ^2/NDF : 215965.0/54

All: -1537.614+/-15.914

χ^2/NDF : 348342.6/1

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 111.067 $\pm$ 0.024 χ^2 /NDF: 1670476.7/24

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF:2595752.6/24

Right Out: 111.561 $\pm$ 0.022 χ^2 /NDF: 2026191.2/29

Left In: 128.184 $\pm$ 0.023 χ^2 /NDF:2332977.5/22

Left: 126.818 $\pm$ 0.016 χ^2 /NDF: 4935627.6/47

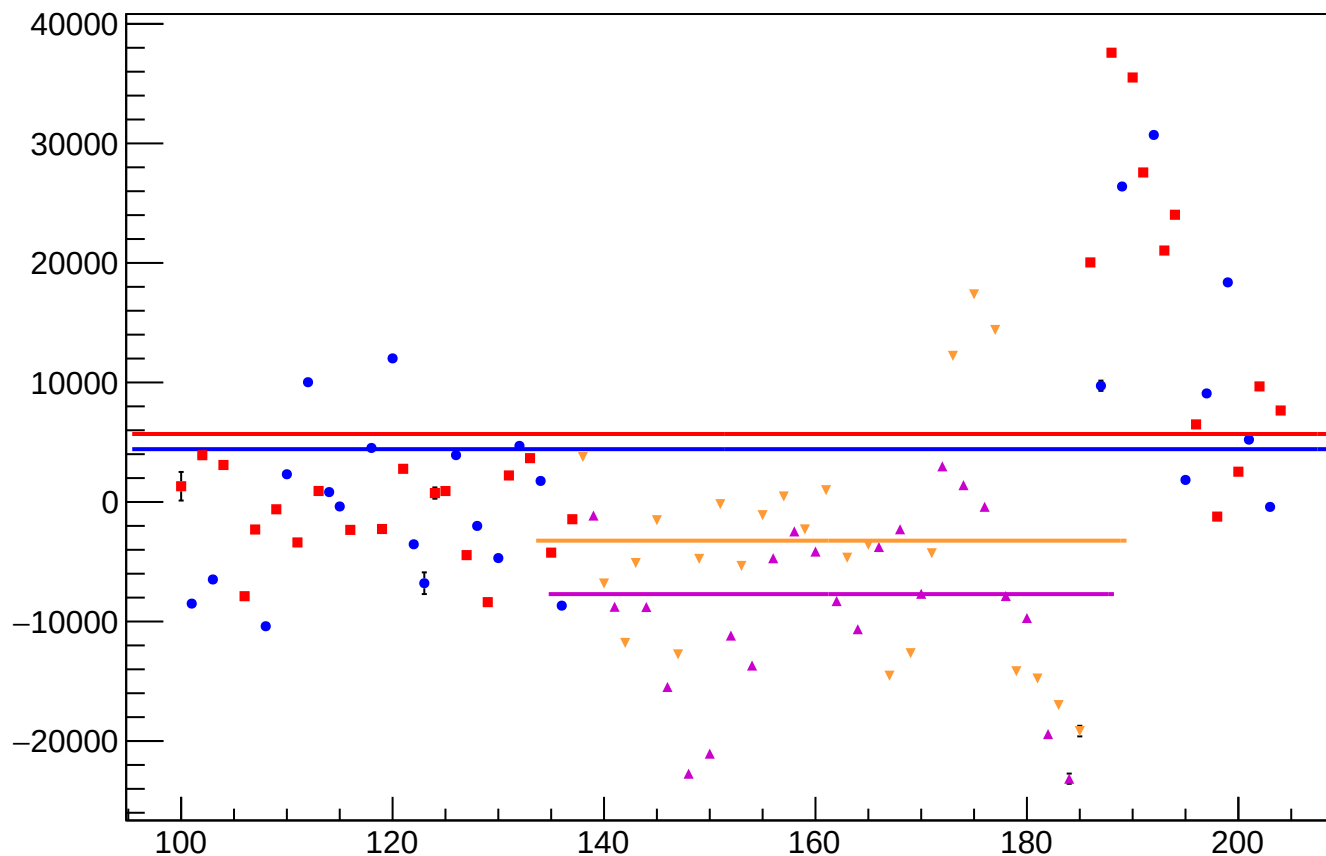
Right: 111.332 $\pm$ 0.016 χ^2 /NDF: 3696900.2/54

In: 120.001 $\pm$ 0.016 χ^2 /NDF:4274879.4/47

Out: 118.706 $\pm$ 0.015 χ^2 /NDF:4827368.4/54

All: 119.315 $\pm$ 0.011 χ^2 /NDF: 9105547.6/102

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 4419.047+/-44.596 χ^2/NDF : 58347.3/24

Left Out: -3234.922+/-40.583 χ^2/NDF :36739.9/24

Right Out: 5689.327+/-41.311 χ^2/NDF : 90430.8/29

Left In: -7707.068+/-42.990 χ^2/NDF :21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

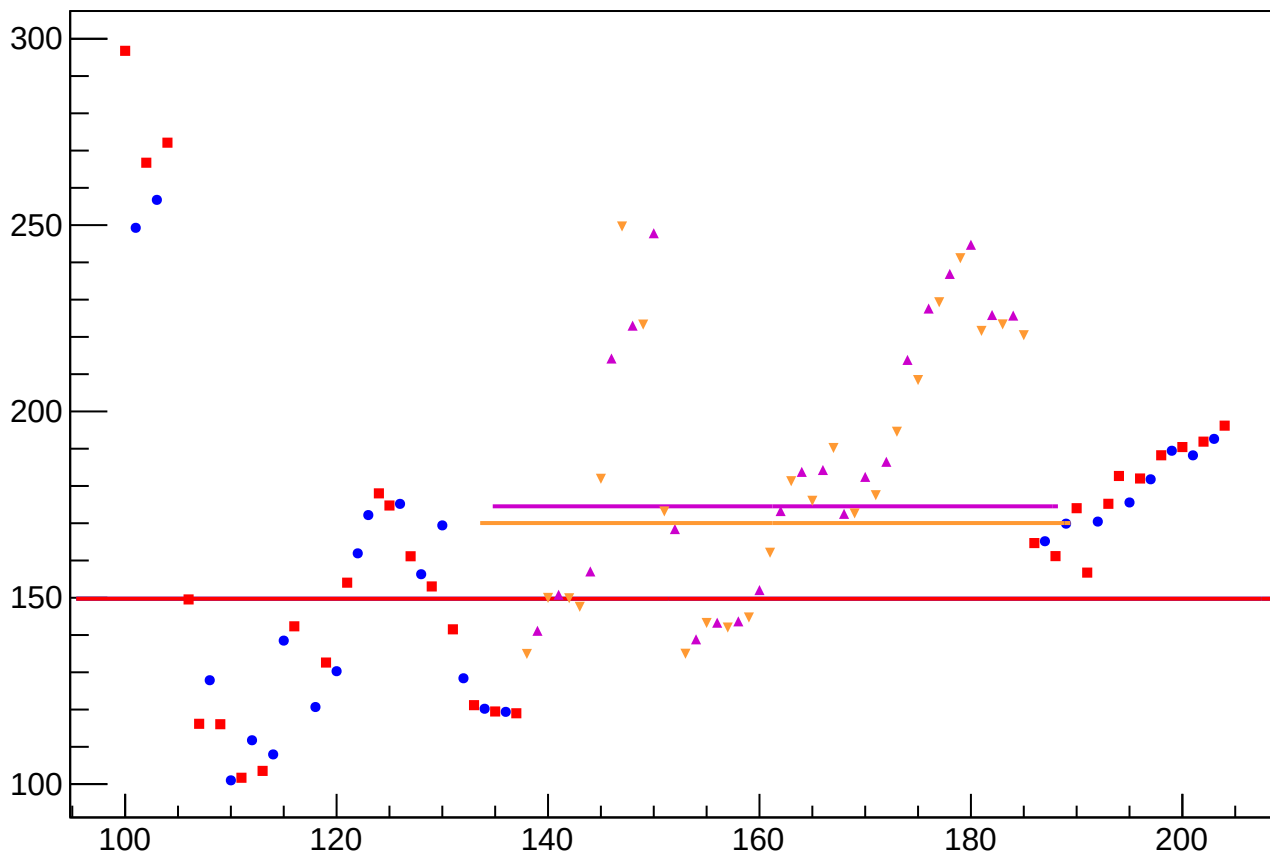
Right: 5102.691+/-30.306 χ^2/NDF : 149214.7/54

In: -1866.276+/-30.951 χ^2/NDF :117938.7/47

Out: 1147.858+/-28.950 χ^2/NDF :150919.4/54

All: -258.667+/-21.143 χ^2/NDF : 273916.4/100

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 149.745 ± 0.032 $\chi^2/\text{NDF}: 1289559.8/24$

Left Out: 170.050 ± 0.029 $\chi^2/\text{NDF}: 1240866.9/24$

Right Out: 149.739 ± 0.029 $\chi^2/\text{NDF}: 1529337.0/29$

Left In: 174.539 ± 0.030 $\chi^2/\text{NDF}: 1210071.2/22$

Left: 172.165 ± 0.021 $\chi^2/\text{NDF}: 2462472.2/47$

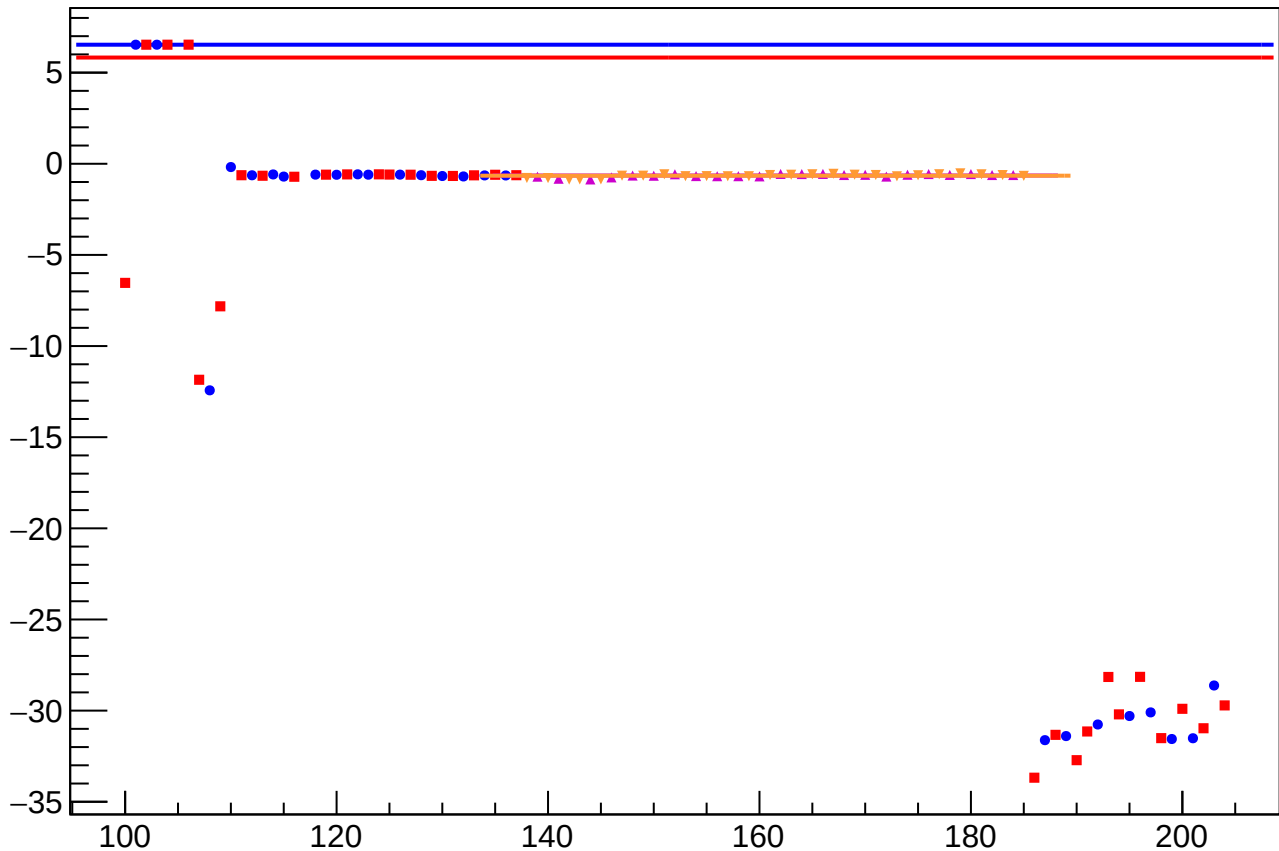
Right: 149.742 ± 0.021 $\chi^2/\text{NDF}: 2818896.8/54$

In: 162.597 ± 0.022 $\chi^2/\text{NDF}: 2820059.5/47$

Out: 160.075 ± 0.020 $\chi^2/\text{NDF}: 3016224.3/54$

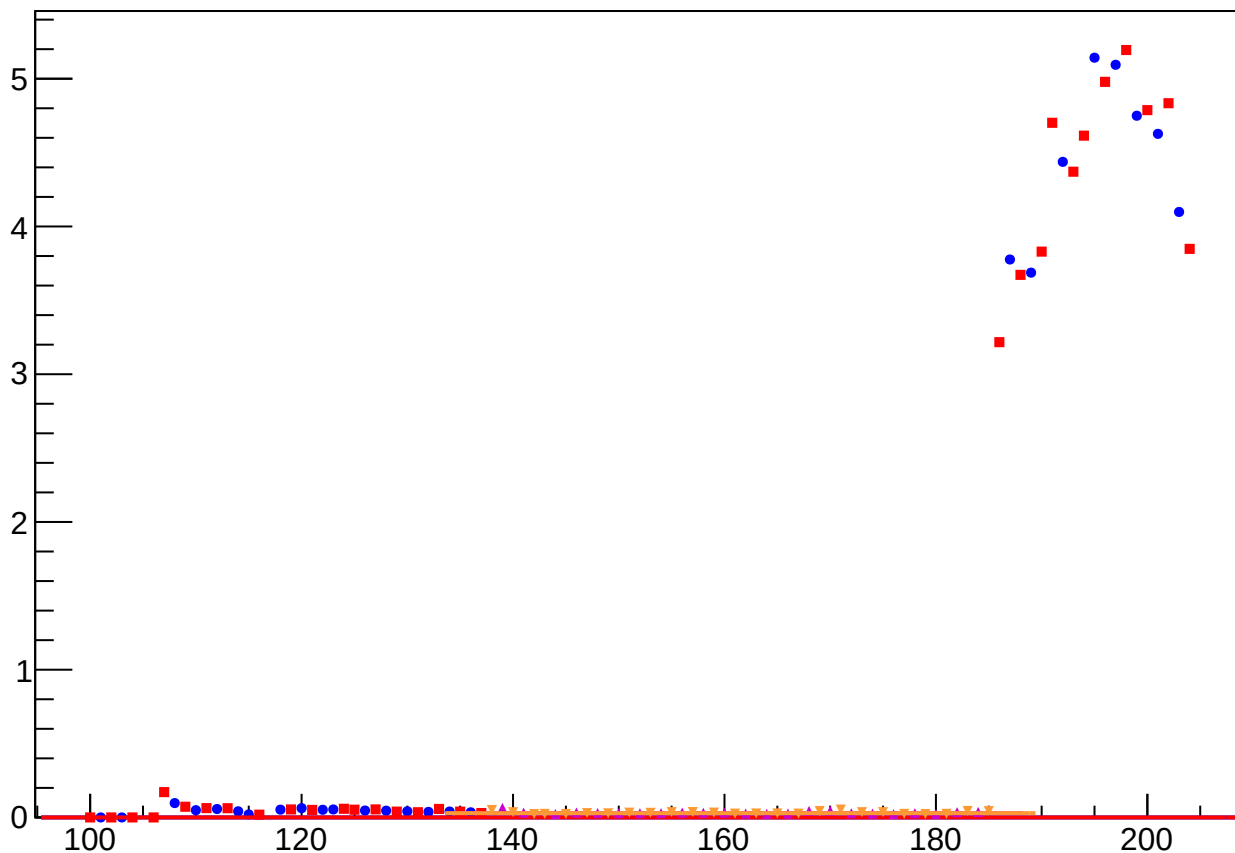
All: 161.252 ± 0.015 $\chi^2/\text{NDF}: 5843365.8/102$

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000	χ^2/NDF : 127930423867.0/24	Left: -0.649+/-0.000	χ^2/NDF : 302910331.9/47
Left Out: -0.654+/-0.000	χ^2/NDF : 179109810.4/24	Right: 6.155+/-0.000	χ^2/NDF : 776078913316117.2
Right Out: 5.827+/-0.000	χ^2/NDF : 755947813961772.0/29	In: 6.530+/-0.000	χ^2/NDF : 953277811749.1/47
Left In: -0.644+/-0.000	χ^2/NDF : 122913584.0/22	Out: 5.826+/-0.000	χ^2/NDF : 756656842605772.8/5
		All: 6.153+/-0.000	χ^2/NDF : 77760228306507

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19738708.2/24

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23173407.5/29

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

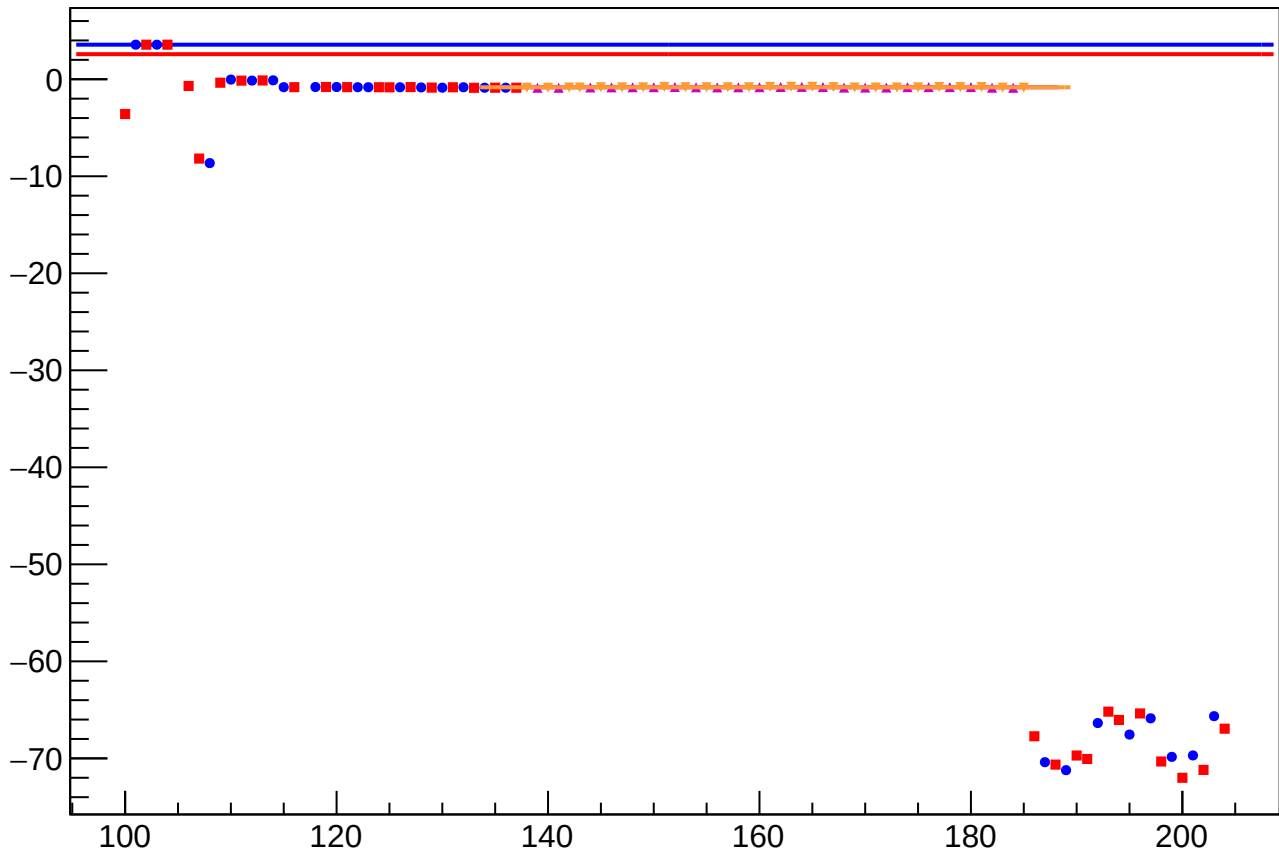
Right: 0.000+/-0.000 χ^2/NDF : 42912365.2/54

In: 0.000+/-0.000 χ^2/NDF :47700385.0/47

Out: 0.000+/-0.000 χ^2/NDF :53049073.9/54

All: 0.000+/-0.000 χ^2/NDF : 100749873.9/102

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 505909505126.7/24

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253529983068934.8/29

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

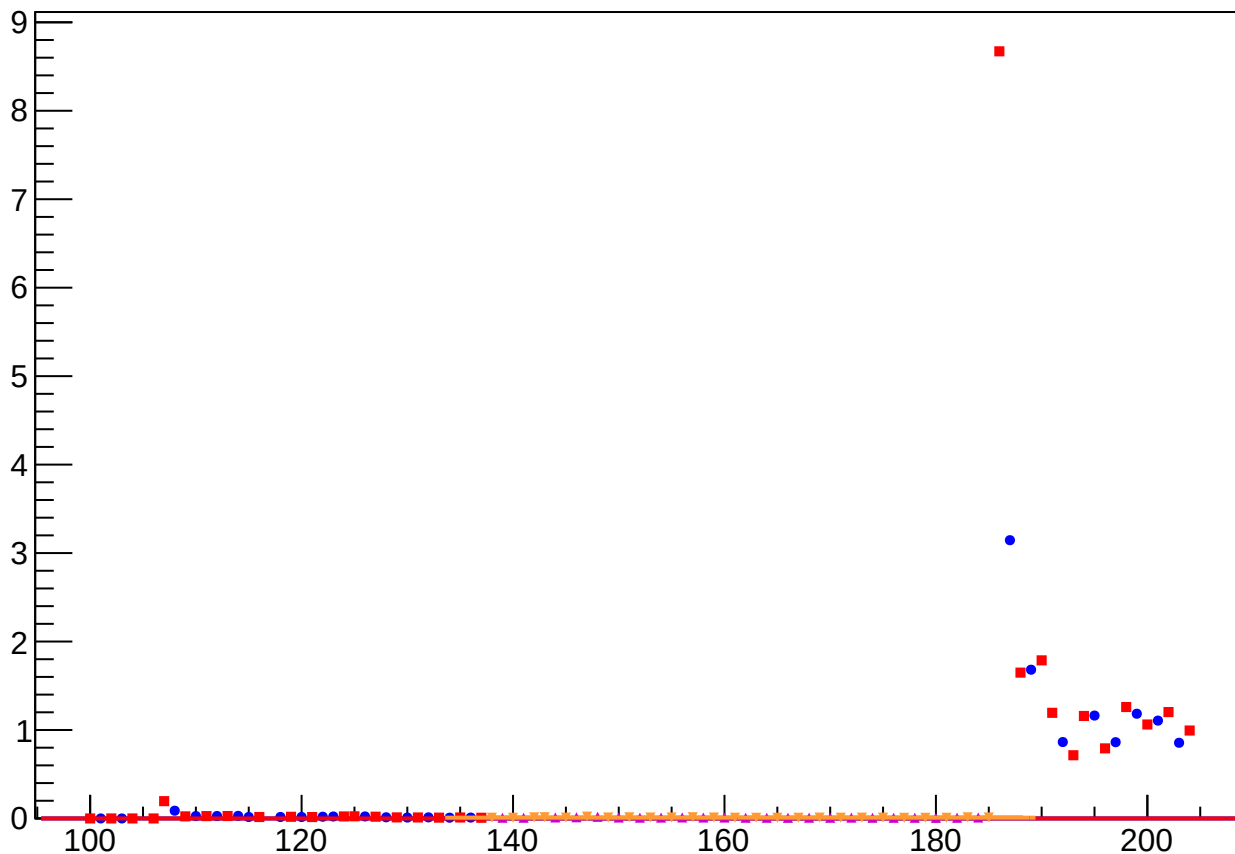
Right: 3.040+/-0.000 χ^2/NDF : 1382307104286744.0

In: 3.560+/-0.000 χ^2/NDF : 4151660974574.9/47

Out: 2.581+/-0.000 χ^2/NDF : 1255752314024192.0

All: 3.038+/-0.000 χ^2/NDF : 13879935763382

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18561608.9/24

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 21616644.7/29

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

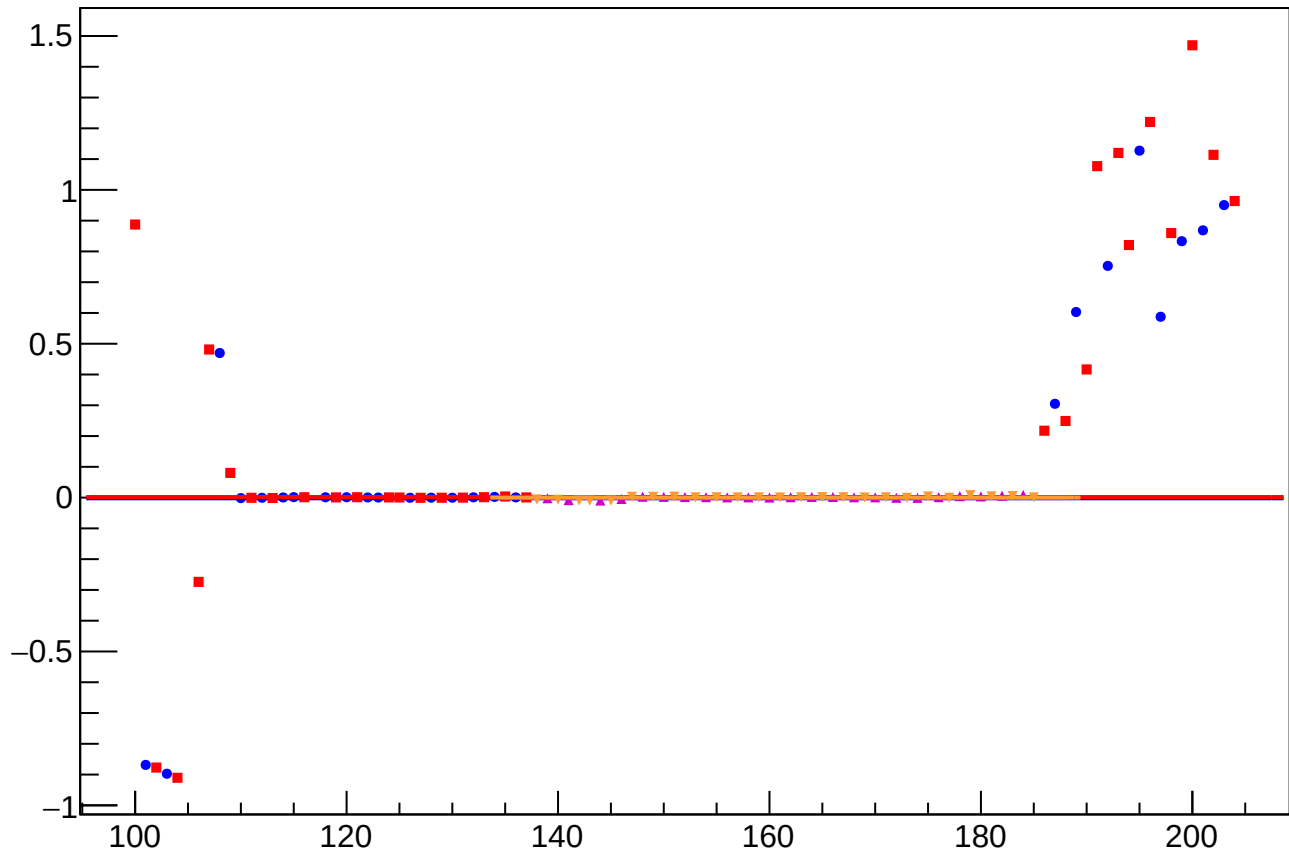
Right: 0.000+/-0.000 χ^2/NDF : 40178533.9/54

In: 0.000+/-0.000 χ^2/NDF :48097654.6/47

Out: 0.000+/-0.000 χ^2/NDF :53035238.1/54

All: 0.000+/-0.000 χ^2/NDF : 101133646.0/102

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796767422.0/24

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043581837.4/29

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 : 12854119762.7/54

In: -0.000+/-0.000

χ^2/NDF : 9909219917.8/47

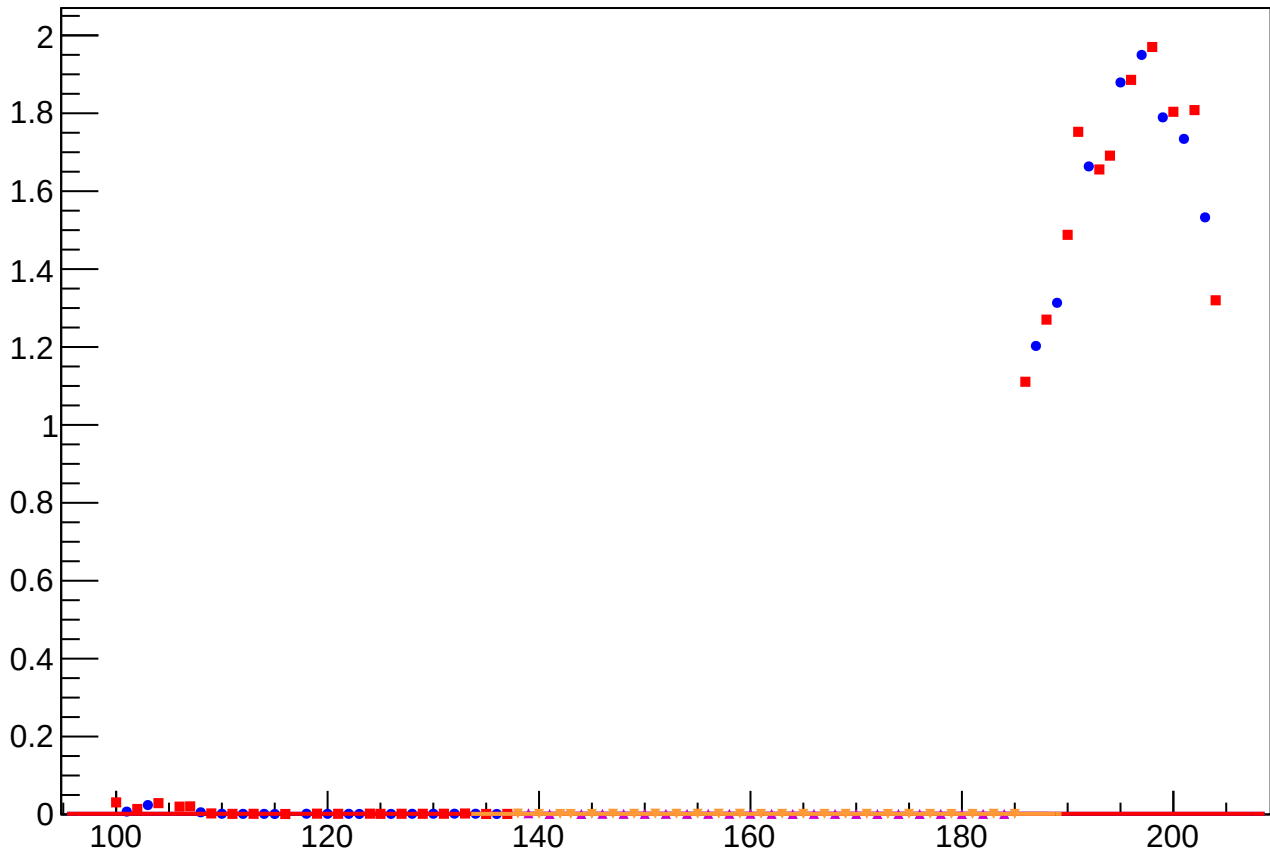
Out: 0.000+/-0.000

χ^2/NDF : 3199798010.9/54

All: 0.000+/-0.000

χ^2/NDF : 13109355055.8/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 12613126.5/24

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16807697.1/29

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

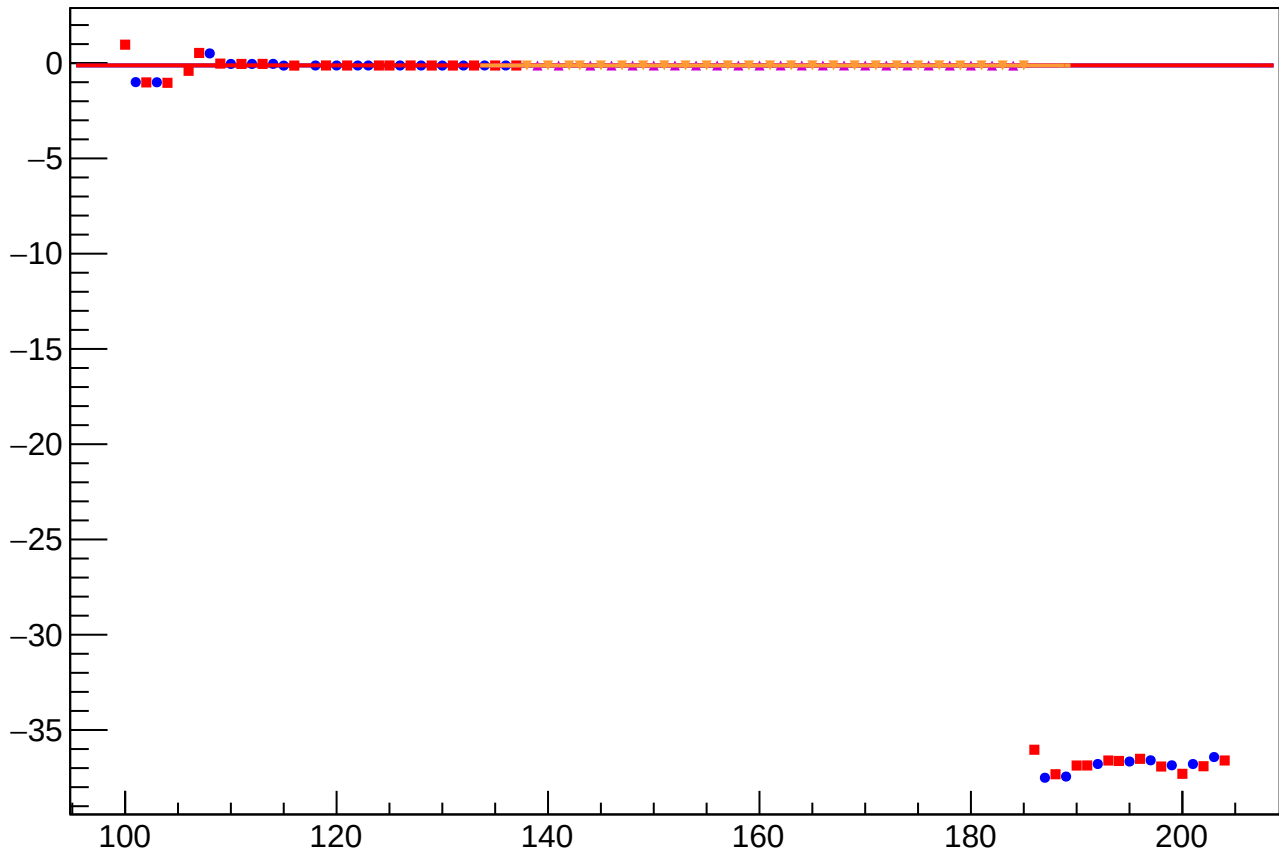
Right: 0.002+/-0.000 χ^2/NDF : 29429415.1/54

In: 0.002+/-0.000 χ^2/NDF : 13290455.6/47

Out: 0.002+/-0.000 χ^2/NDF : 17486268.9/54

All: 0.002+/-0.000 χ^2/NDF : 30777622.9/102

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 50551635331.4/24

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 59986853165.3/29

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

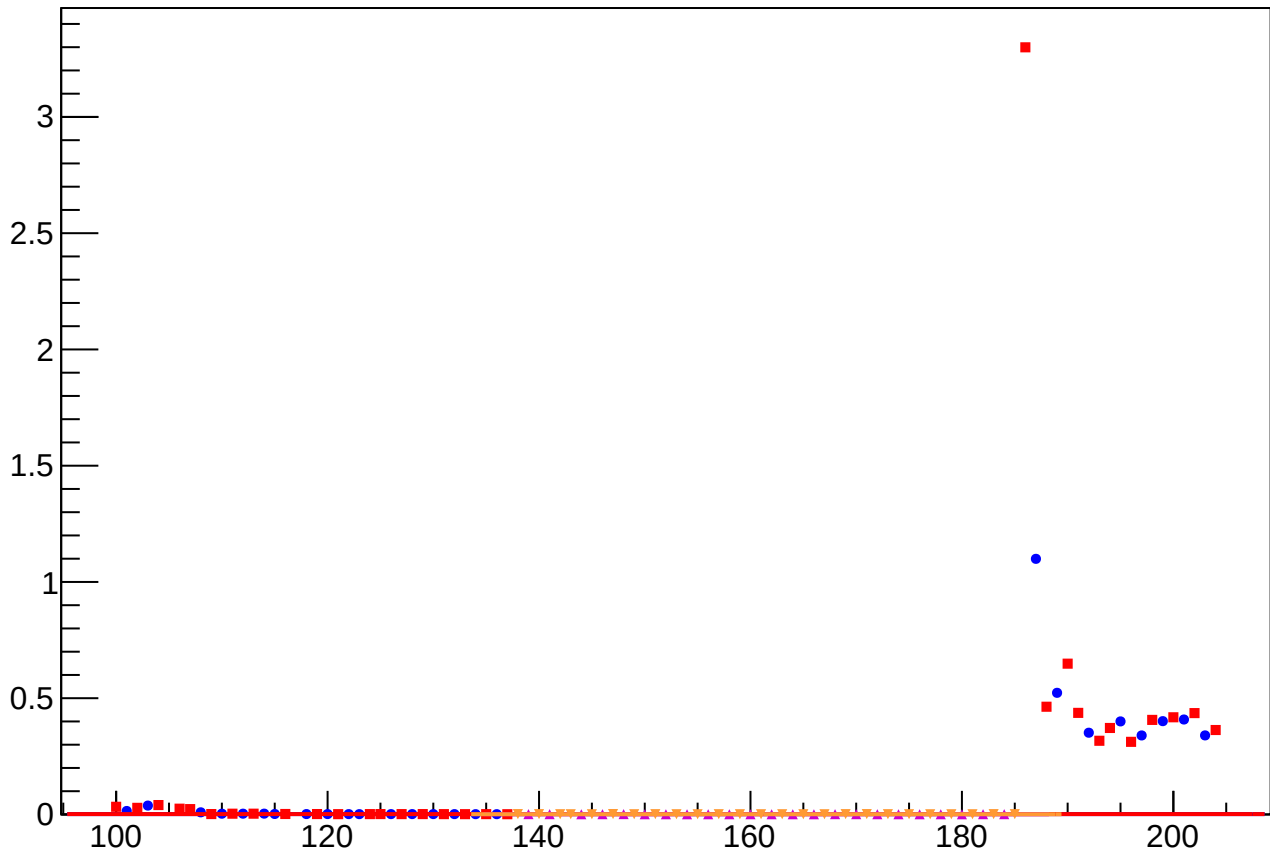
Right: -0.119+/-0.000 χ^2/NDF : 110560129389.2/54

In: -0.121+/-0.000 χ^2/NDF : 50603765156.7/47

Out: -0.121+/-0.000 χ^2/NDF : 60085277688.5/54

All: -0.121+/-0.000 χ^2/NDF : 110689933371.4

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 13071718.8/24

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16793059.2/29

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

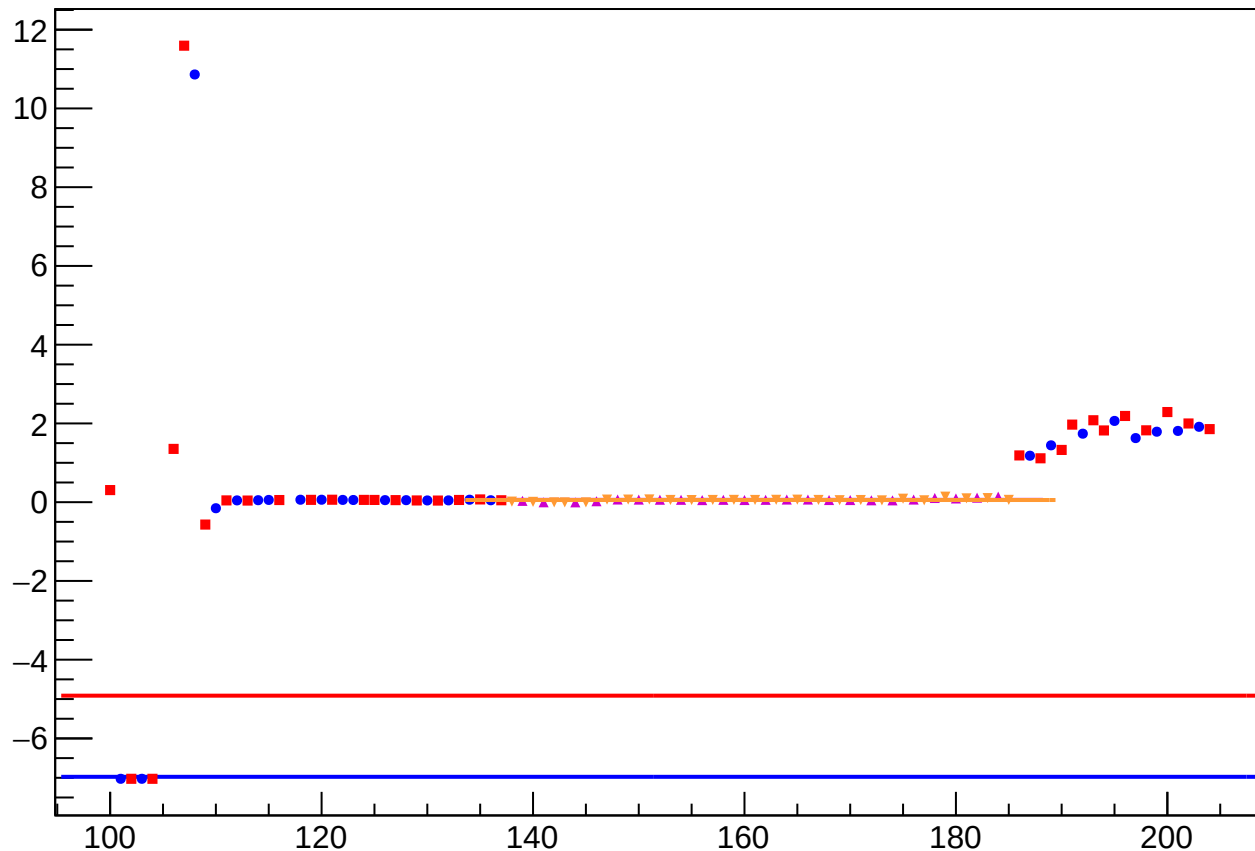
Right: 0.002+/-0.000 χ^2/NDF : 29864867.4/54

In: 0.001+/-0.000 χ^2/NDF :15210044.1/47

Out: 0.001+/-0.000 χ^2/NDF :19333712.2/54

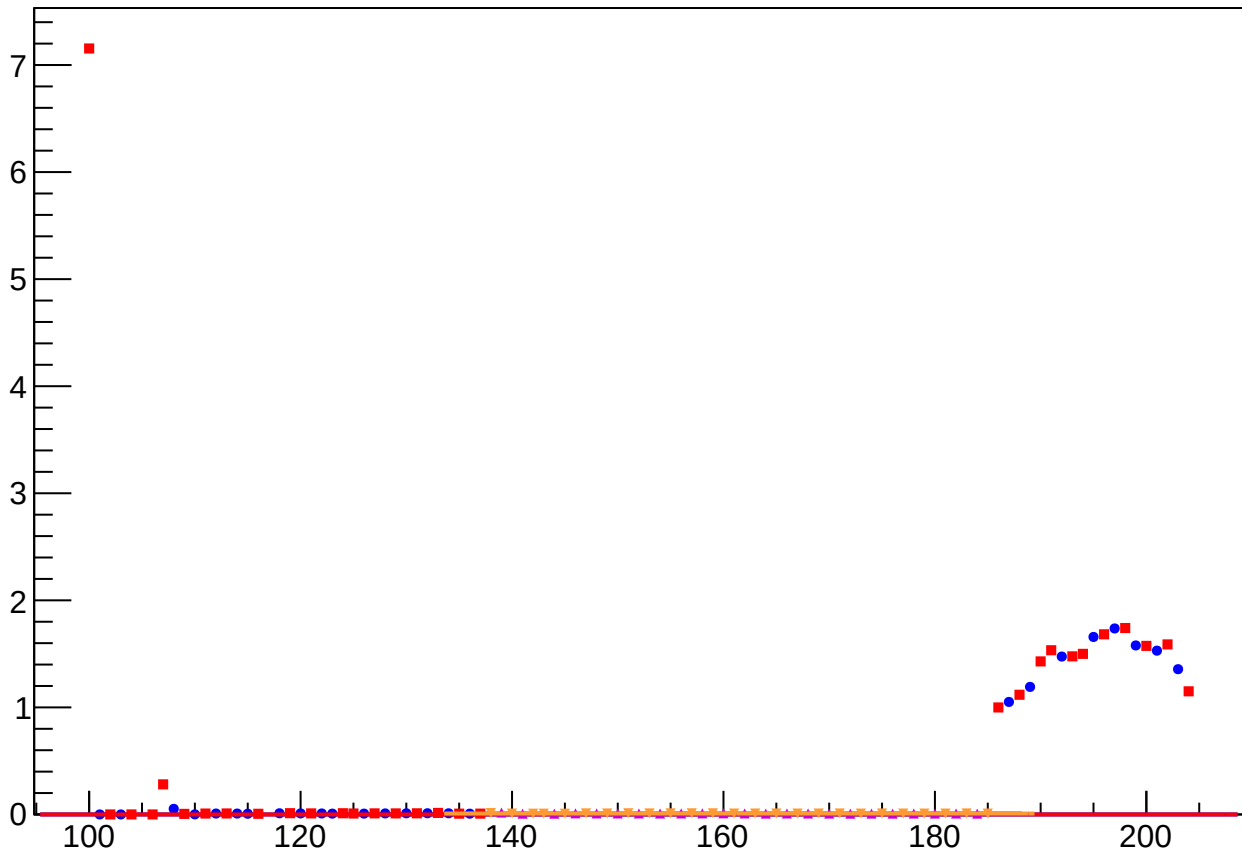
All: 0.001+/-0.000 χ^2/NDF : 34546267.0/102

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797545165953.8/24$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333618948809.1$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352814568662.2/29$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553063513003.8/47$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165377656197.4/29$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435289095572$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19061958.7/24

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 22587754.3/29

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

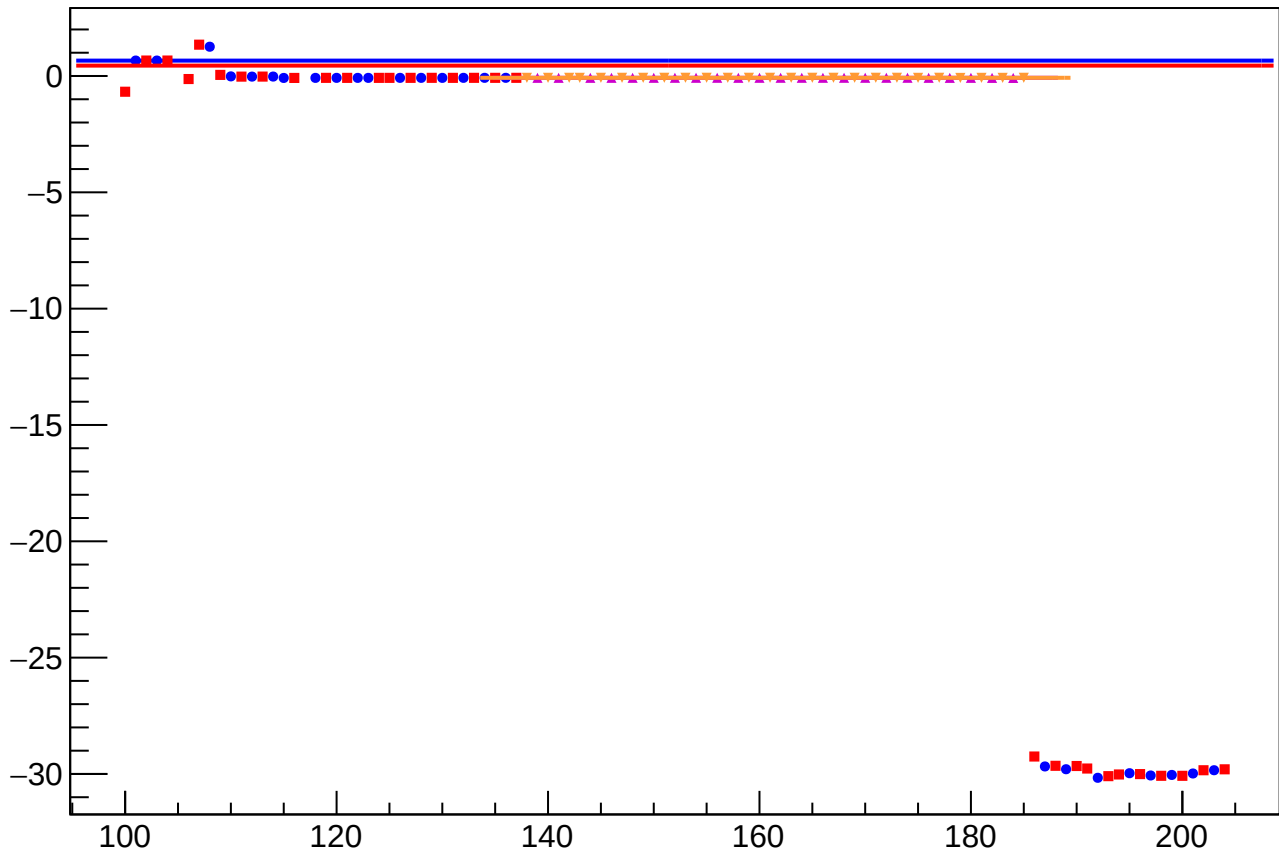
Right: 0.000+/-0.000 χ^2/NDF : 41650057.2/54

In: 0.000+/-0.000 χ^2/NDF :46480060.4/47

Out: 0.000+/-0.000 χ^2/NDF :51531879.8/54

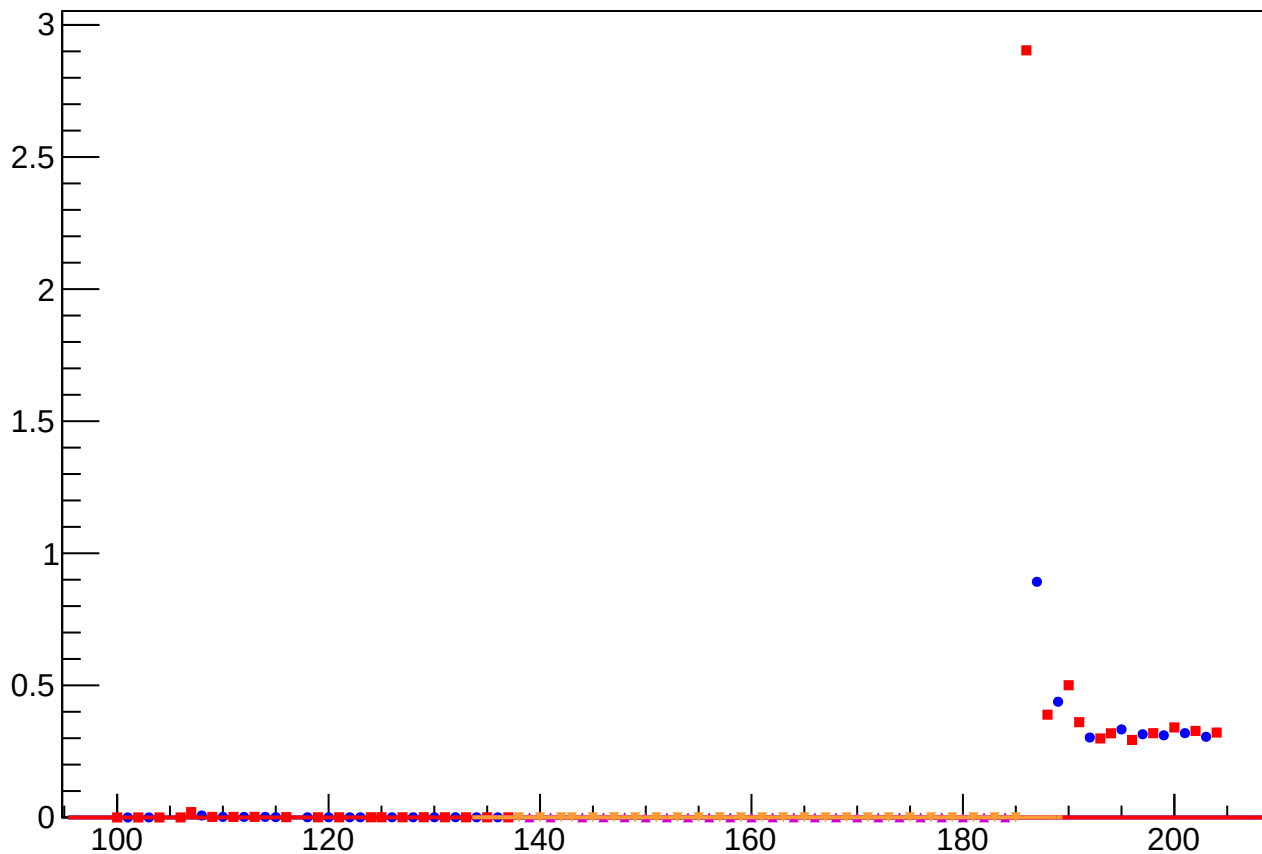
All: 0.000+/-0.000 χ^2/NDF : 98012400.6/102

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5705923328916.2/24	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 : 474102643401540.5
Right Out: 0.446+/-0.000	χ^2/NDF : 405483405092634.6/29	In: 0.647+/-0.000	χ^2/NDF : 33746613624787.2/47
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420644487175039.6/5
		All: 0.537+/-0.000	χ^2/NDF : 51594704381213

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20524675.1/24

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23124397.3/29

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

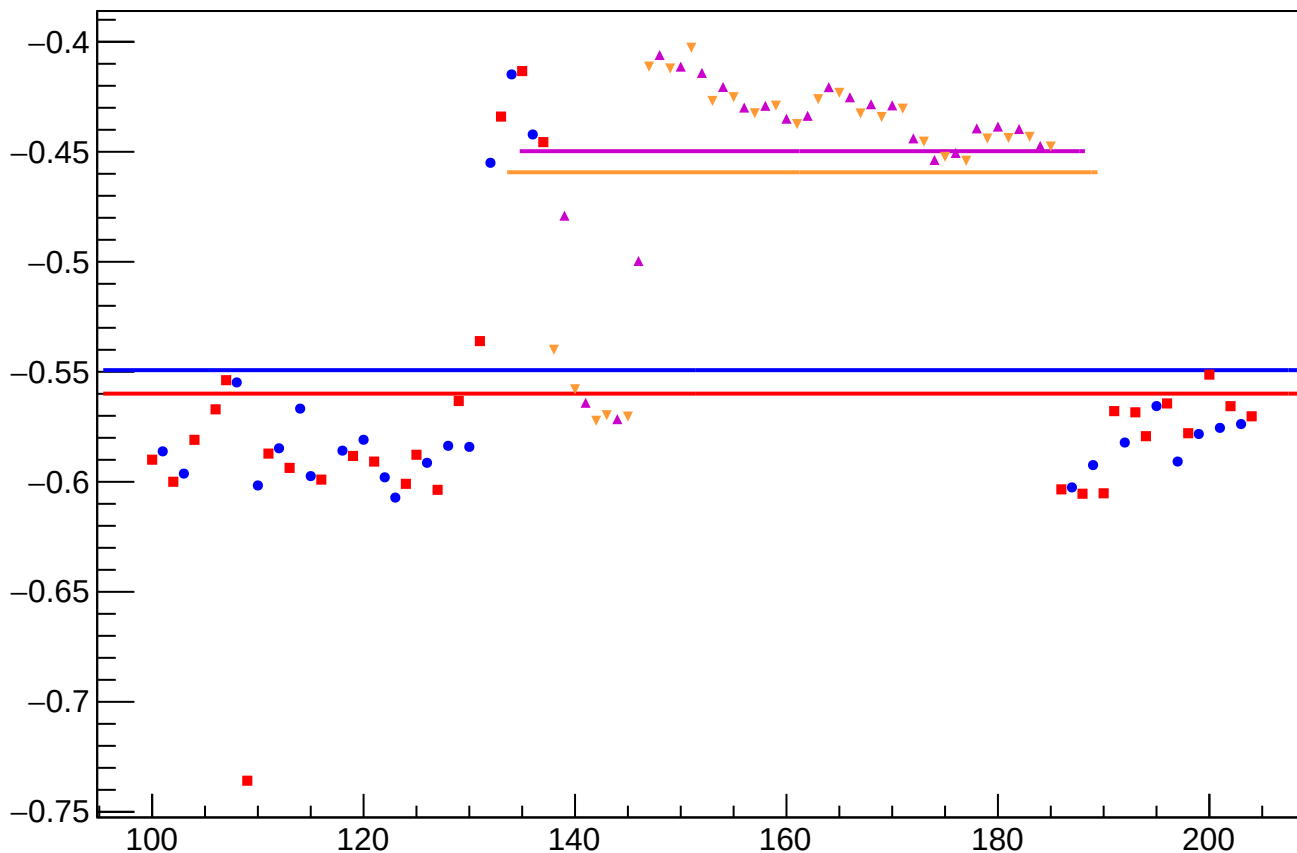
Right: 0.000+/-0.000 χ^2/NDF : 43649087.8/54

In: 0.000+/-0.000 χ^2/NDF : 51257120.6/47

Out: 0.000+/-0.000 χ^2/NDF : 55745609.4/54

All: 0.000+/-0.000 χ^2/NDF : 107003064.5/102

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.549+/-0.000 χ^2/NDF : 47770362.5/24

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65682181.2/29

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

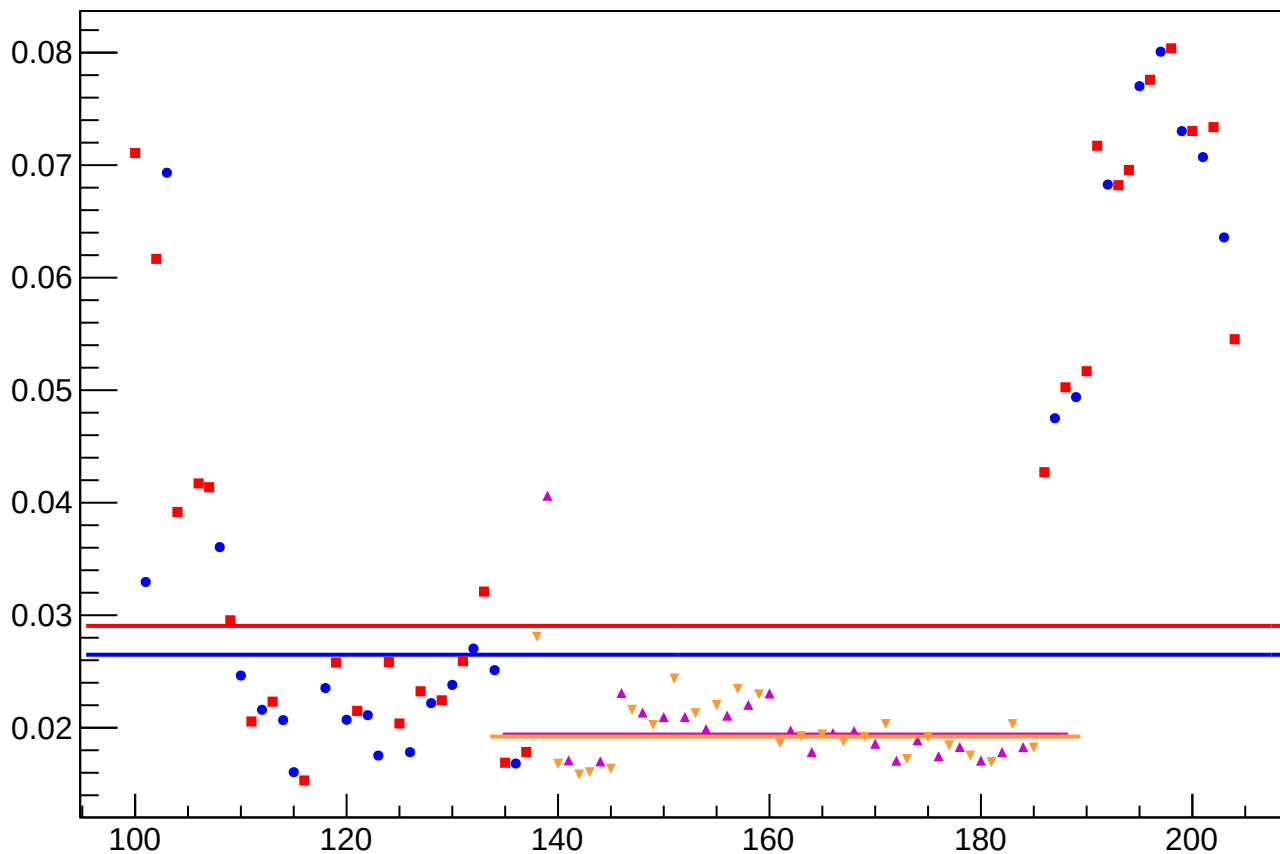
Right: -0.555+/-0.000 χ^2/NDF : 114115216.3/54

In: -0.474+/-0.000 χ^2/NDF : 212091508.6/47

Out: -0.482+/-0.000 χ^2/NDF : 270284401.3/54

All: -0.478+/-0.000 χ^2/NDF : 484071644.5/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.026+/-0.000 χ^2/NDF : 5418418.9/24

Left Out: 0.019+/-0.000 χ^2/NDF :501711.6/24

Right Out: 0.029+/-0.000 χ^2/NDF : 6035068.7/29

Left In: 0.019+/-0.000 χ^2/NDF :626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

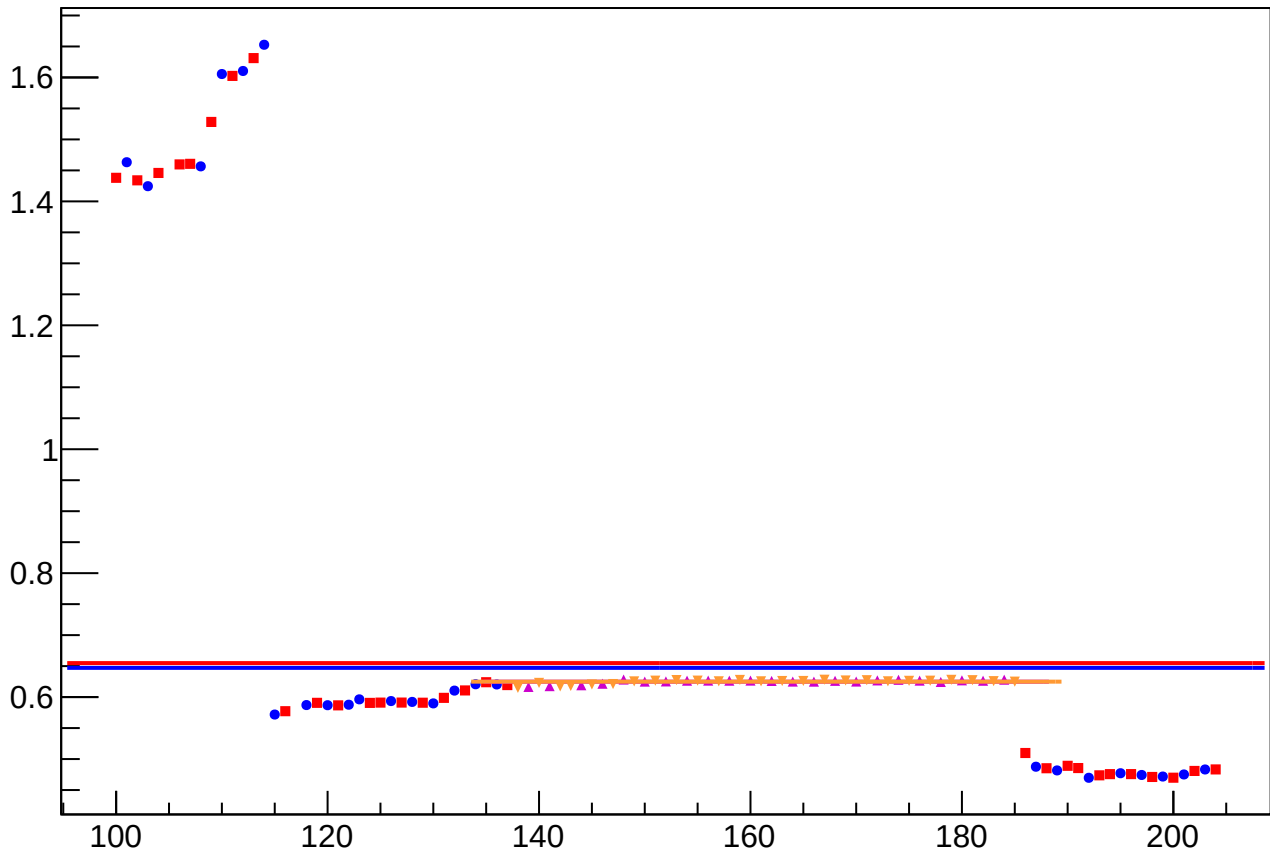
Right: 0.028+/-0.000 χ^2/NDF : 11529923.0/54

In: 0.021+/-0.000 χ^2/NDF :6941542.1/47

Out: 0.021+/-0.000 χ^2/NDF :8275042.8/54

All: 0.021+/-0.000 χ^2/NDF : 15221823.6/102

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.647+/-0.000 χ^2/NDF : 4841792181.3/24

Left Out: 0.625+/-0.000 χ^2/NDF :1445169.1/24

Right Out: 0.655+/-0.000 χ^2/NDF : 5937388051.0/29

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

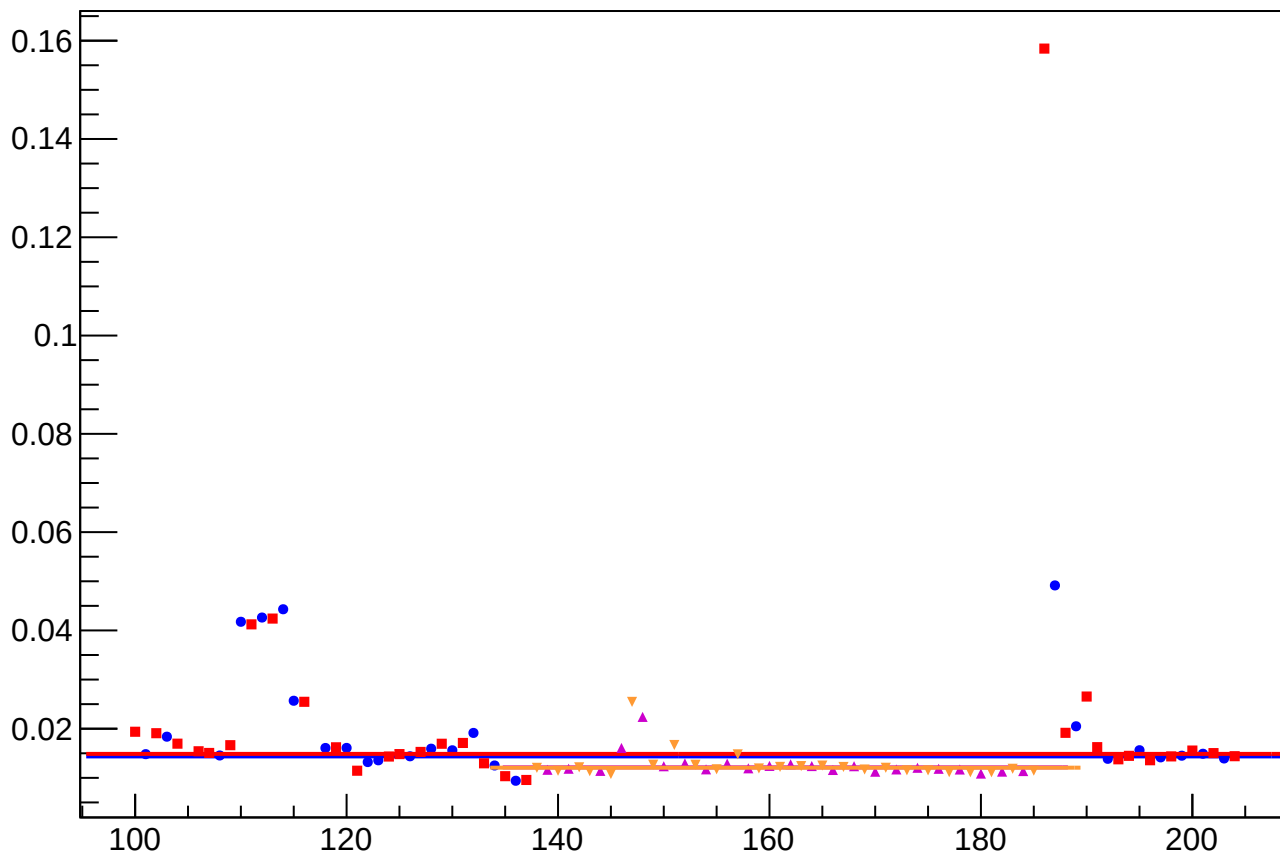
Right: 0.651+/-0.000 χ^2/NDF : 10780767017.3/54

In: 0.632+/-0.000 χ^2/NDF :4860835244.8/47

Out: 0.634+/-0.000 χ^2/NDF :5973142266.0/54

All: 0.633+/-0.000 χ^2/NDF : 10834508580.1/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1638303.2/24

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2079137.1/29

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

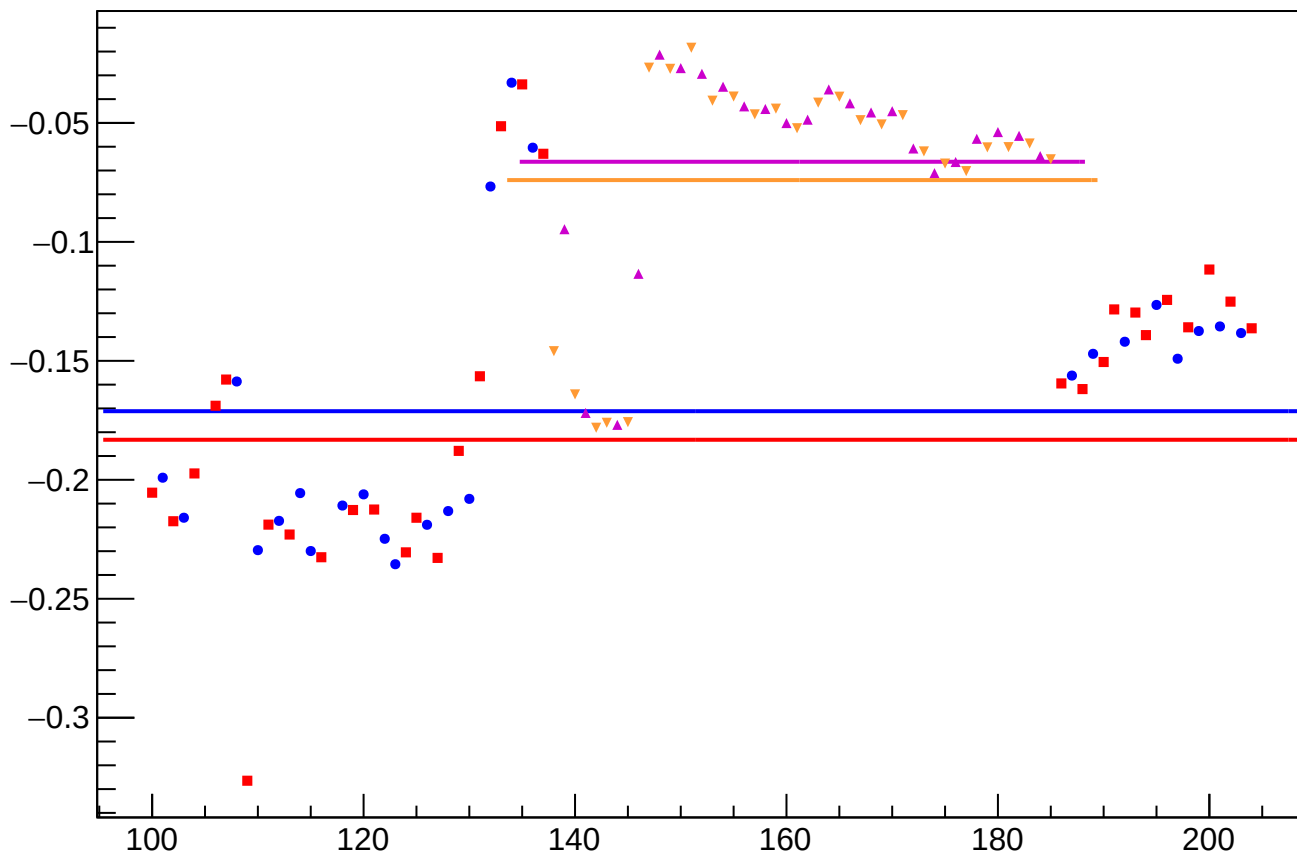
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3731492.4/54

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2482310.7/47

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3338285.7/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5822961.7/102

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68133868.8/24

Left Out: -0.074+/-0.000 χ^2/NDF :107676601.9/24

Right Out: -0.183+/-0.000 χ^2/NDF : 86269099.9/29

Left In: -0.066+/-0.000 χ^2/NDF :76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

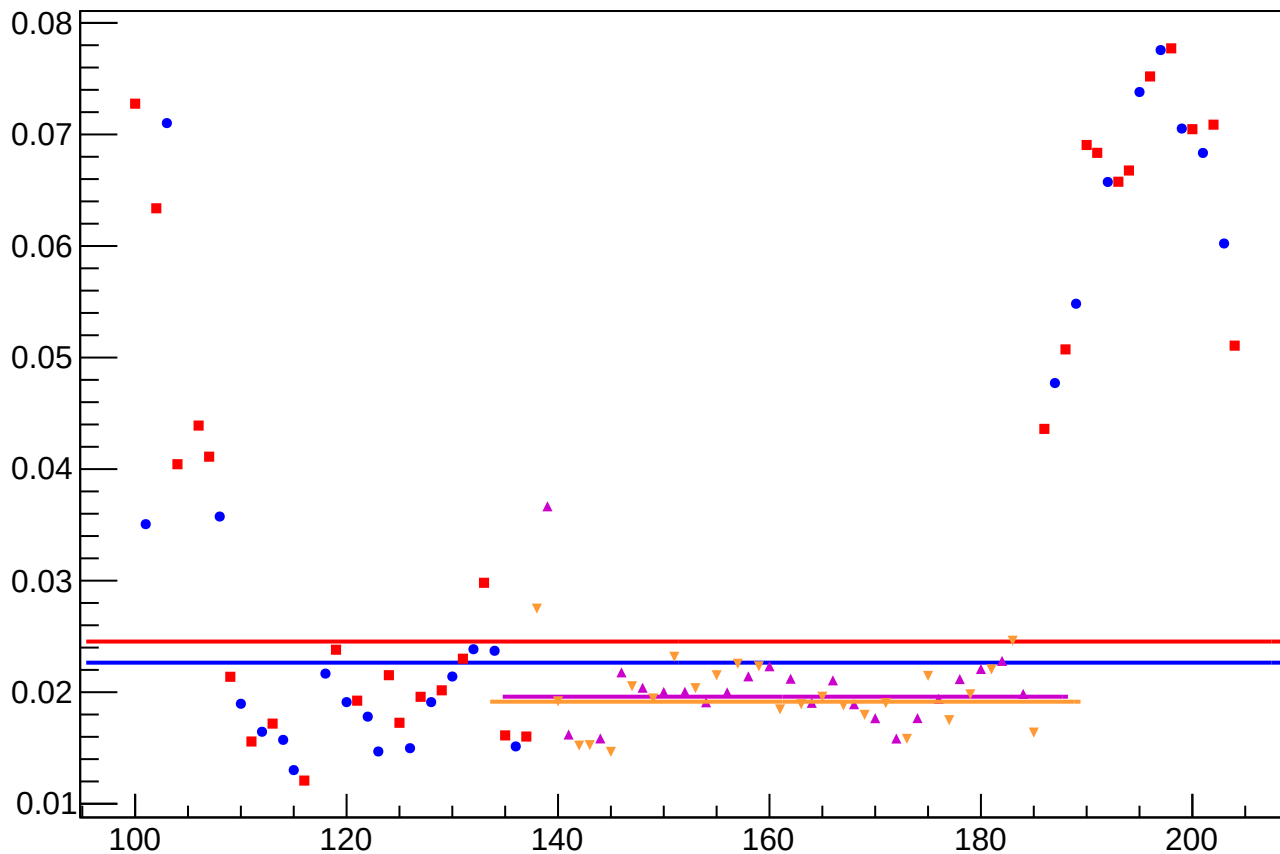
Right: -0.177+/-0.000 χ^2/NDF : 155500397.6/54

In: -0.097+/-0.000 χ^2/NDF :263113622.6/47

Out: -0.103+/-0.000 χ^2/NDF :326102534.4/54

All: -0.100+/-0.000 χ^2/NDF : 590412572.1/100

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6289471.5/24

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.025+/-0.000 χ^2/NDF : 7332713.0/29

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

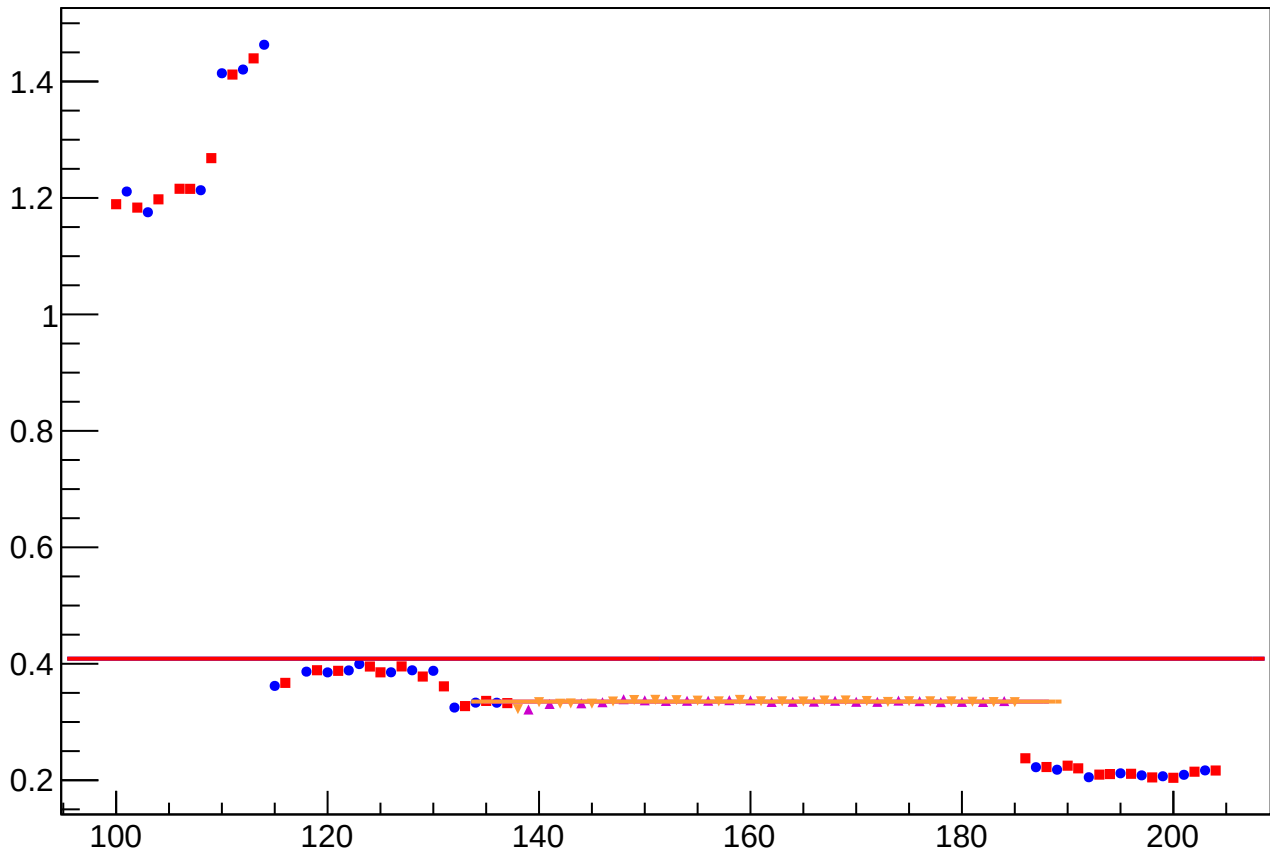
Right: 0.024+/-0.000 χ^2/NDF : 13676691.1/54

In: 0.020+/-0.000 χ^2/NDF : 7113776.4/47

Out: 0.021+/-0.000 χ^2/NDF : 8618942.3/54

All: 0.021+/-0.000 χ^2/NDF : 15733488.7/102

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.409 $\pm$ 0.000 χ^2 /NDF: 7148554865.8/24

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1154310.3/24

Right Out: 0.409 $\pm$ 0.000 χ^2 /NDF: 8381001590.1/29

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2356931.1/47

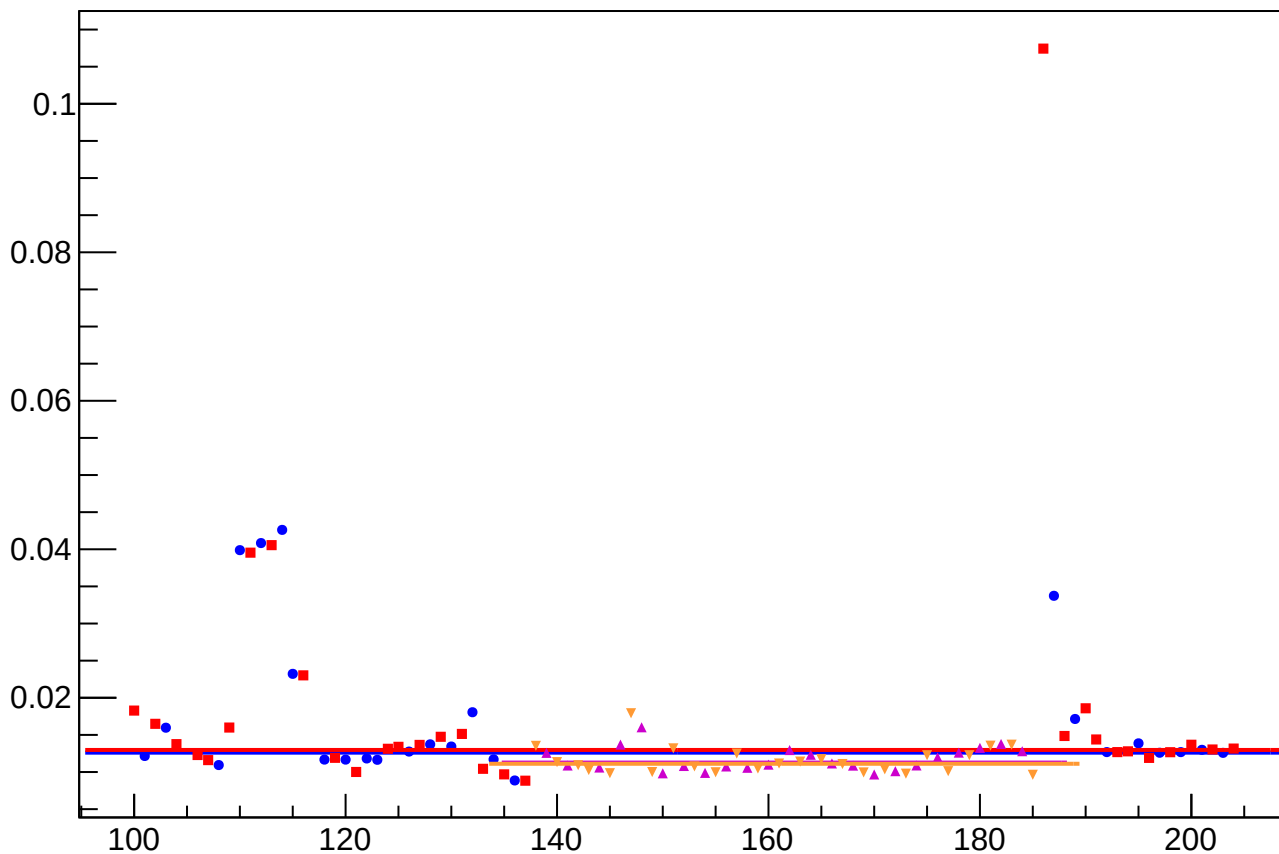
Right: 0.409 $\pm$ 0.000 χ^2 /NDF: 15529556455.9/54

In: 0.360 $\pm$ 0.000 χ^2 /NDF:7392645643.7/47

Out: 0.360 $\pm$ 0.000 χ^2 /NDF:8644480585.7/54

All: 0.360 $\pm$ 0.000 χ^2 /NDF: 16037127660.3/101

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1508608.3/24

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1937637.7/29

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

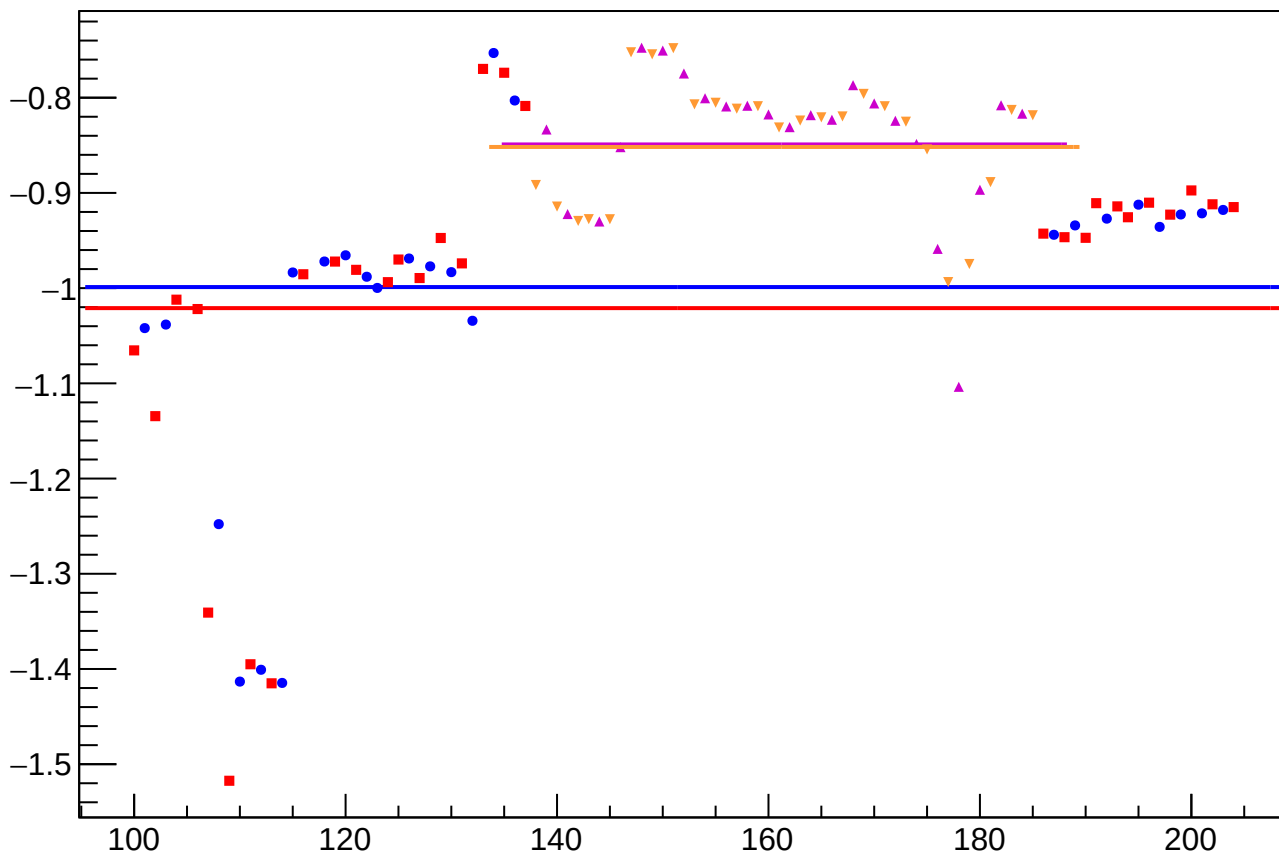
Right: 0.013+/-0.000 χ^2/NDF : 3455562.0/54

In: 0.012+/-0.000 χ^2/NDF : 2170833.5/47

Out: 0.012+/-0.000 χ^2/NDF : 2879929.8/54

All: 0.012+/-0.000 χ^2/NDF : 5050813.3/102

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.999 ± 0.000 $\chi^2/\text{NDF}: 401175873.2/24$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189103962.4/24$

Right Out: -1.021 ± 0.000 $\chi^2/\text{NDF}: 555973861.2/29$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445636655.2/47$

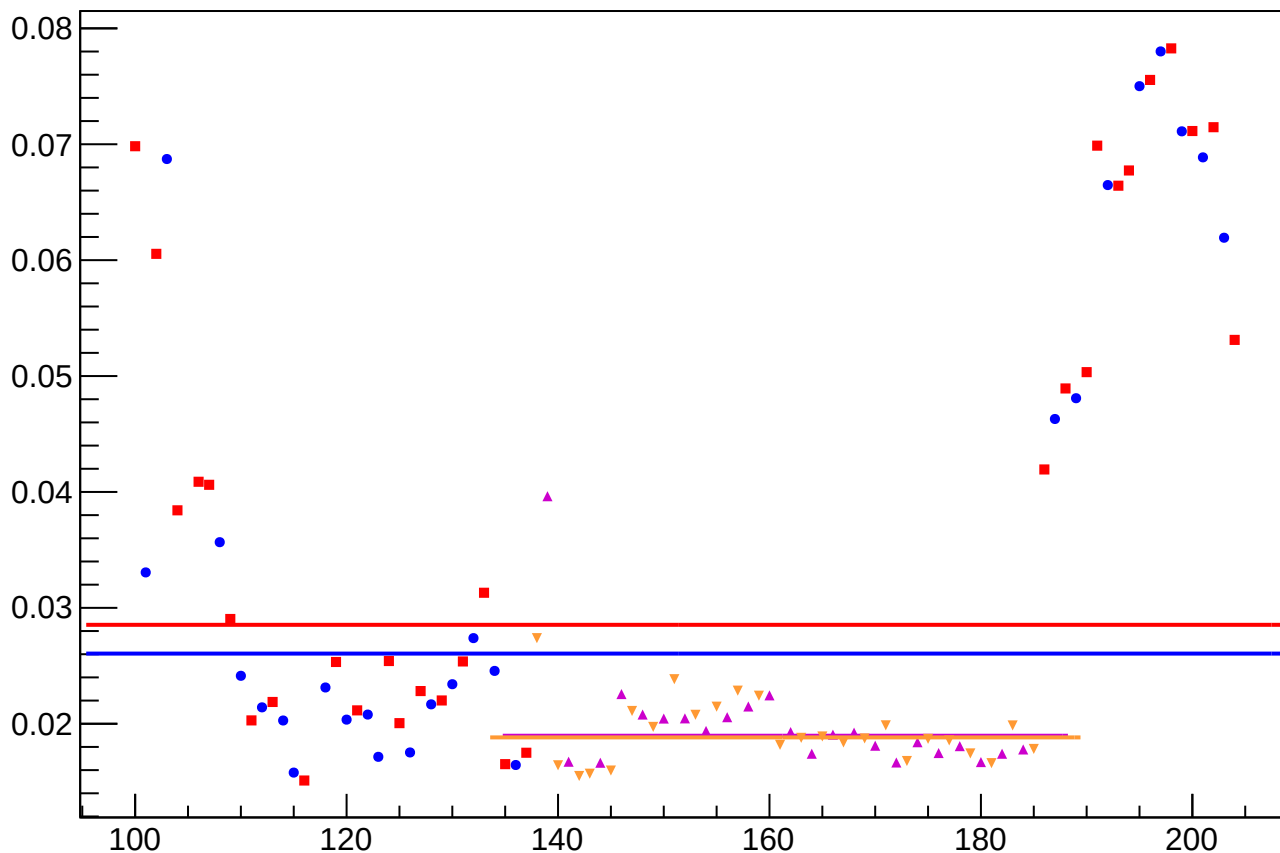
Right: -1.010 ± 0.000 $\chi^2/\text{NDF}: 960102714.3/54$

In: -0.885 ± 0.000 $\chi^2/\text{NDF}: 864944973.3/47$

Out: -0.890 ± 0.000 $\chi^2/\text{NDF}: 1012642918.9/54$

All: -0.887 ± 0.000 $\chi^2/\text{NDF}: 1878179054.5/1$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.026+/-0.000 χ^2/NDF : 5396925.3/24

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.029+/-0.000 χ^2/NDF : 5979183.6/29

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

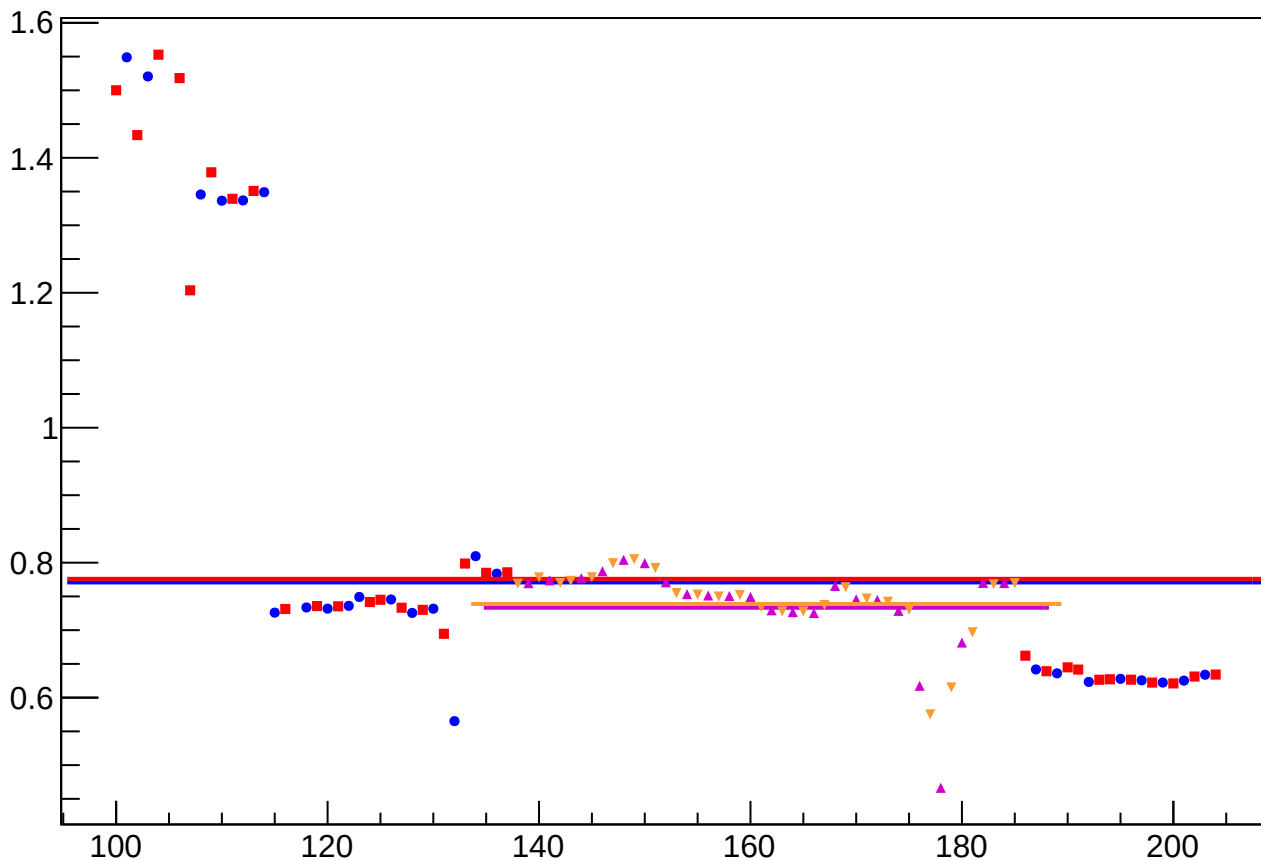
Right: 0.027+/-0.000 χ^2/NDF : 11450518.0/54

In: 0.021+/-0.000 χ^2/NDF : 6940541.3/47

Out: 0.021+/-0.000 χ^2/NDF : 8232176.2/54

All: 0.021+/-0.000 χ^2/NDF : 15178625.5/102

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.771 $\pm$ 0.000 χ^2 /NDF: 3314371564.7/24

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.776 $\pm$ 0.000 χ^2 /NDF: 3681979655.6/29

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 904456968.5/47

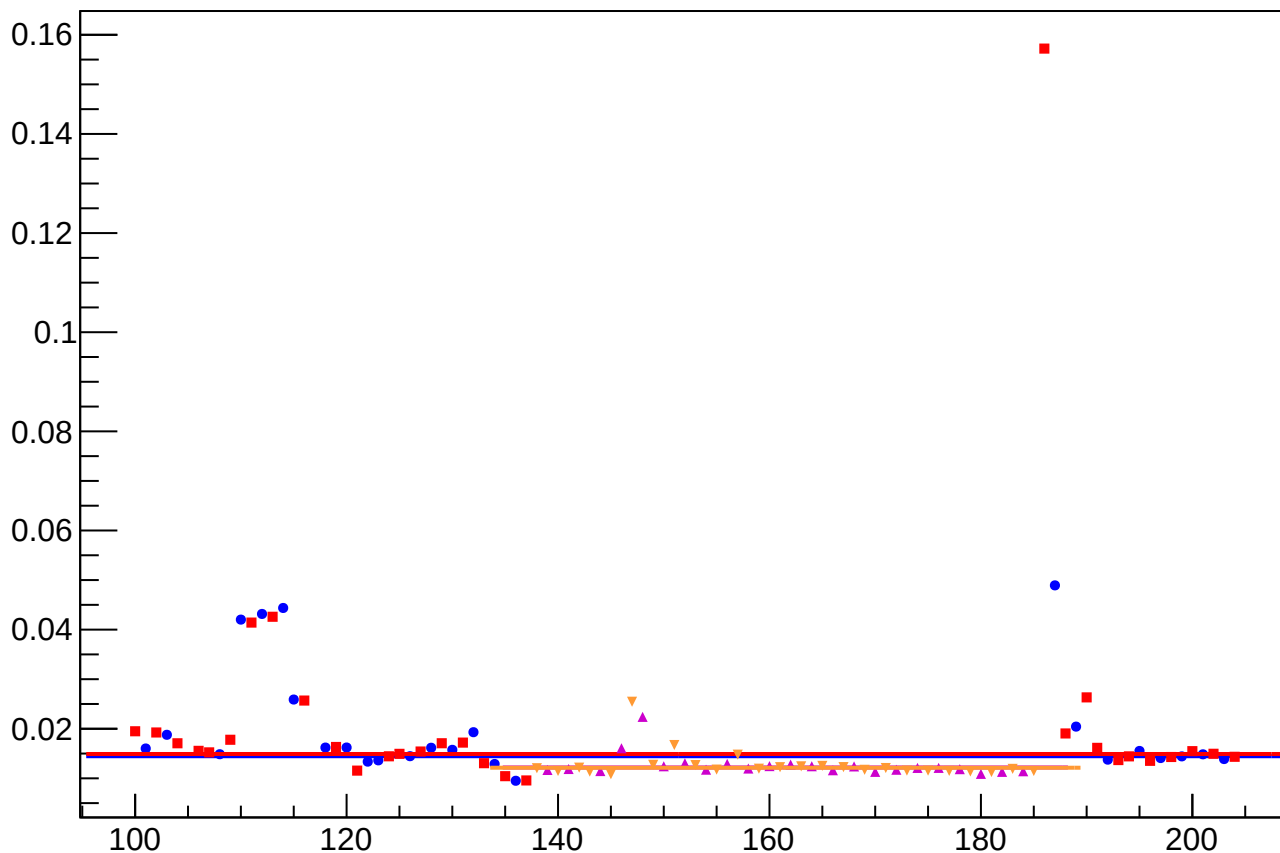
Right: 0.774 $\pm$ 0.000 χ^2 /NDF: 6997115204.3/54

In: 0.745 $\pm$ 0.000 χ^2 /NDF:3933608528.5/47

Out: 0.751 $\pm$ 0.000 χ^2 /NDF:4067560720.4/54

All: 0.748 $\pm$ 0.000 χ^2 /NDF: 8003880481.6/100

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1639469.9/24

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2082909.9/29

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

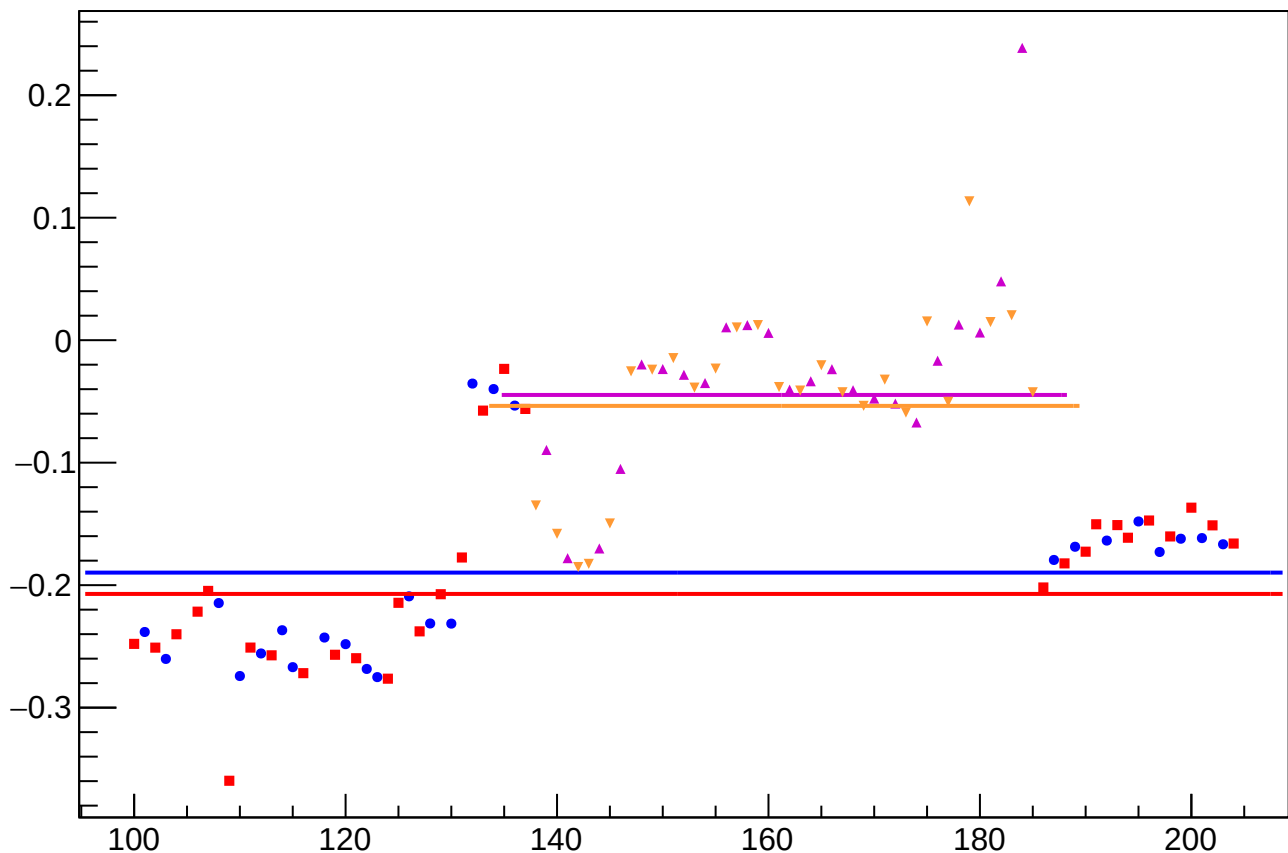
Right: 0.015+/-0.000 χ^2/NDF : 3733134.3/54

In: 0.013+/-0.000 χ^2/NDF : 2485149.9/47

Out: 0.013+/-0.000 χ^2/NDF : 3303553.3/54

All: 0.013+/-0.000 χ^2/NDF : 5790928.5/102

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 $\pm$ 0.000 χ^2/NDF : 107126656.7/24

Left Out: -0.054 $\pm$ 0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.207 $\pm$ 0.000 χ^2/NDF : 114591558.1/29

Left In: -0.045 $\pm$ 0.000 χ^2/NDF : 127192425.2/22

Left: -0.049 $\pm$ 0.000 χ^2/NDF : 296566503.6/47

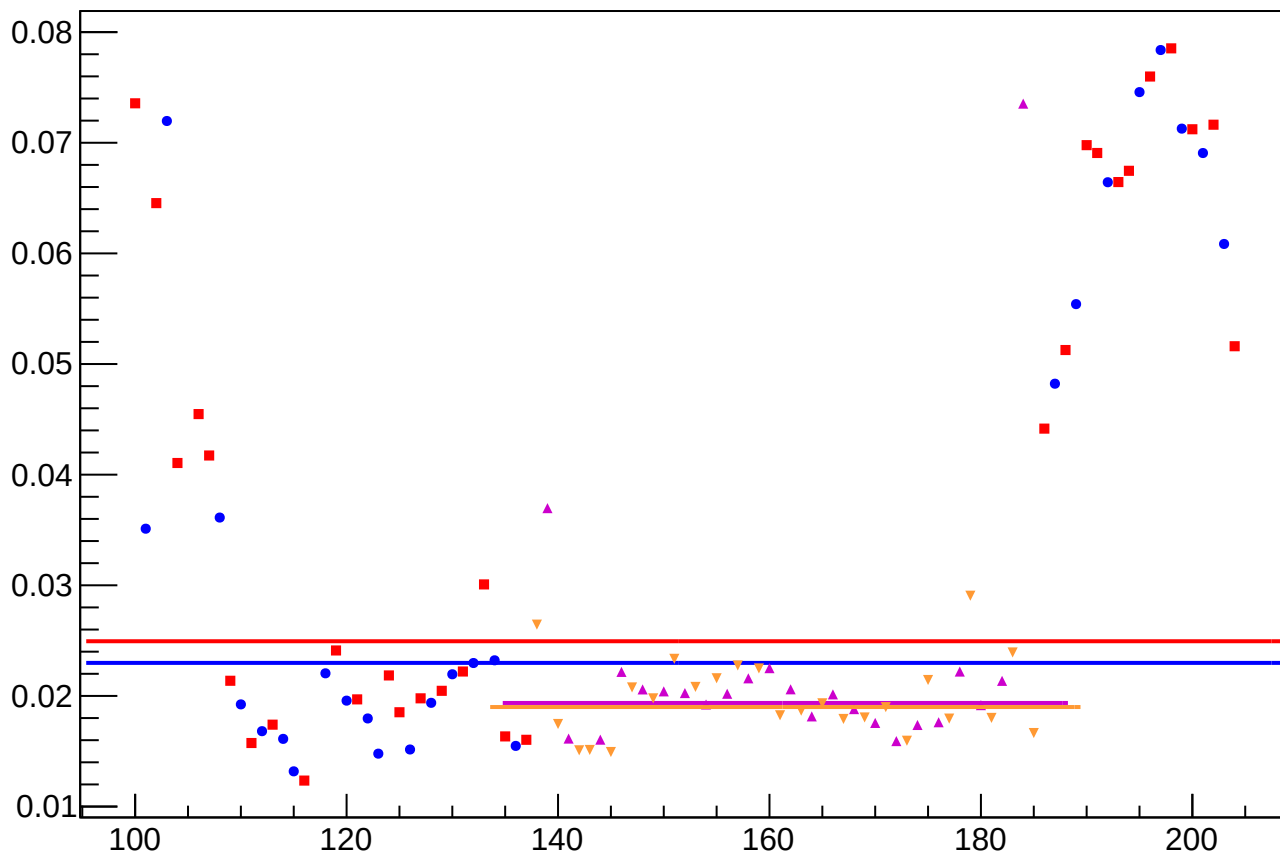
Right: -0.198 $\pm$ 0.000 χ^2/NDF : 223957368.3/54

In: -0.086 $\pm$ 0.000 χ^2/NDF : 456872265.6/47

Out: -0.095 $\pm$ 0.000 χ^2/NDF : 536845525.5/54

All: -0.091 $\pm$ 0.000 χ^2/NDF : 995572260.5/10

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6240965.6/24

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.025+/-0.000 χ^2/NDF : 7290387.0/29

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

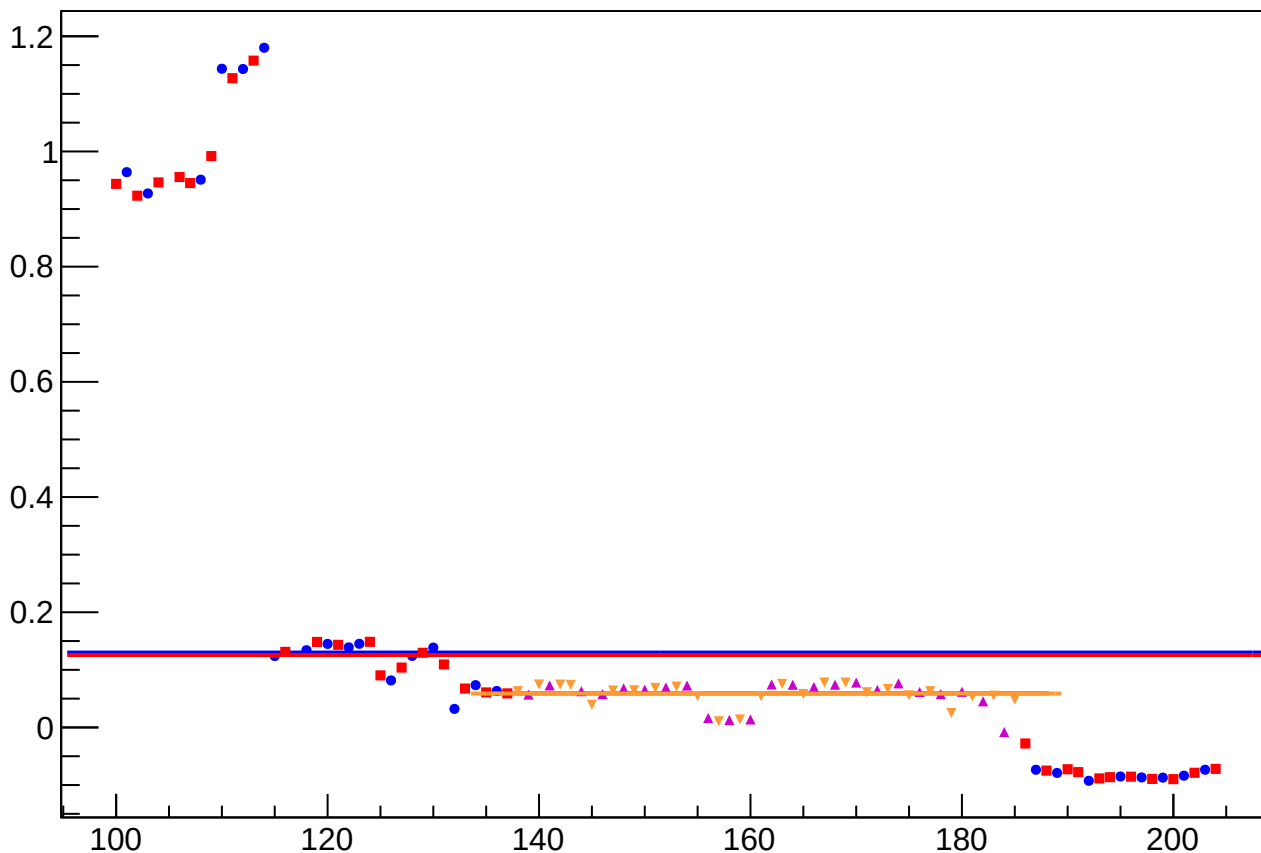
Right: 0.024+/-0.000 χ^2/NDF : 13587888.1/54

In: 0.020+/-0.000 χ^2/NDF : 7376727.1/47

Out: 0.021+/-0.000 χ^2/NDF : 8754122.6/54

All: 0.020+/-0.000 χ^2/NDF : 16132580.3/102

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.130+/-0.000 χ^2/NDF : 7691260215.5/24

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.126+/-0.000 χ^2/NDF : 8818476060.3/29

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

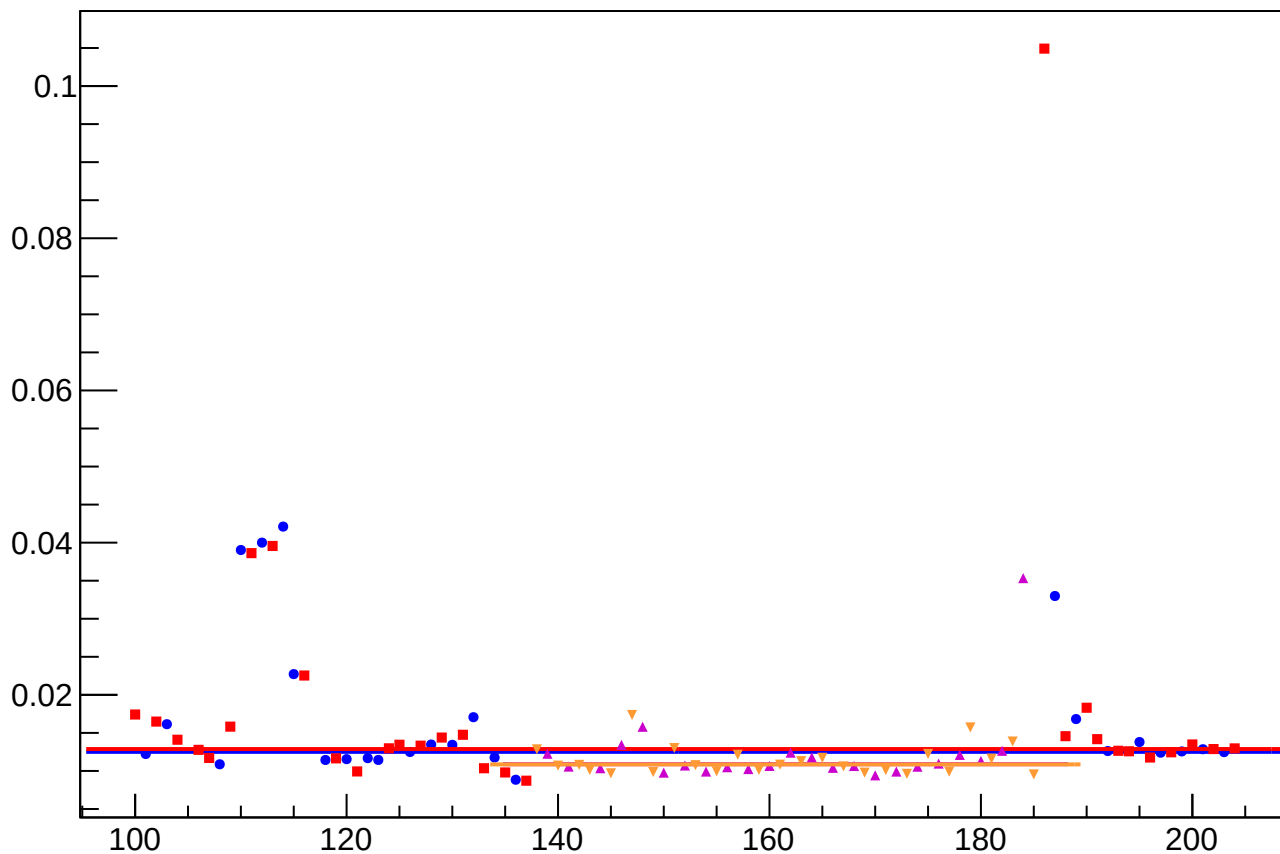
Right: 0.128+/-0.000 χ^2/NDF : 16510379179.1/54

In: 0.083+/-0.000 χ^2/NDF : 7980466447.9/47

Out: 0.082+/-0.000 χ^2/NDF : 9085325719.4/54

All: 0.082+/-0.000 χ^2/NDF : 17065981009.6/101

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1475207.3/24

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1892989.5/29

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

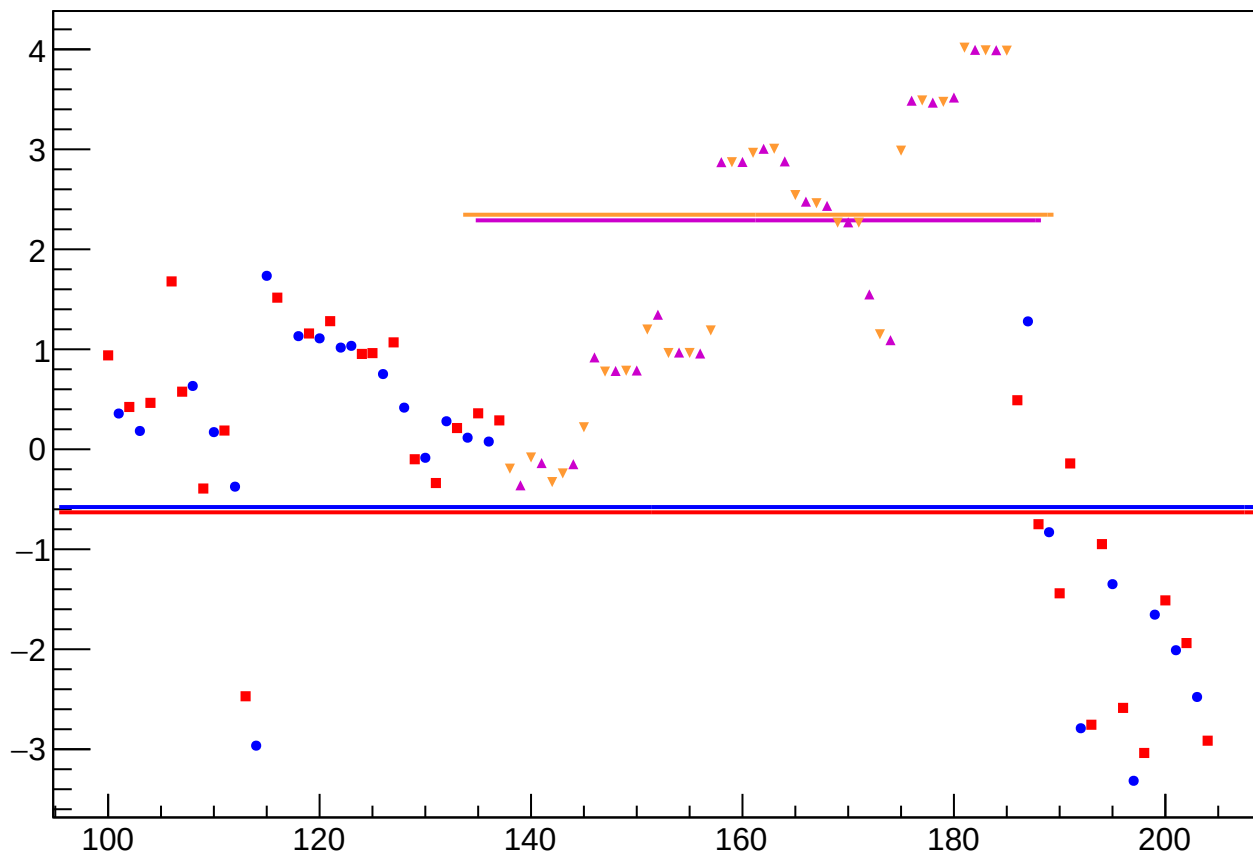
Right: 0.013+/-0.000 χ^2/NDF : 3377854.7/54

In: 0.011+/-0.000 χ^2/NDF : 2246066.2/47

Out: 0.012+/-0.000 χ^2/NDF : 2897606.4/54

All: 0.011+/-0.000 χ^2/NDF : 5146287.0/102

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.578+/-0.000 χ^2/NDF : 5501126132.3/24

Left Out: 2.346+/-0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.631+/-0.000 χ^2/NDF : 7058473692.7/29

Left In: 2.290+/-0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318+/-0.000 χ^2/NDF : 124438674298.4/47

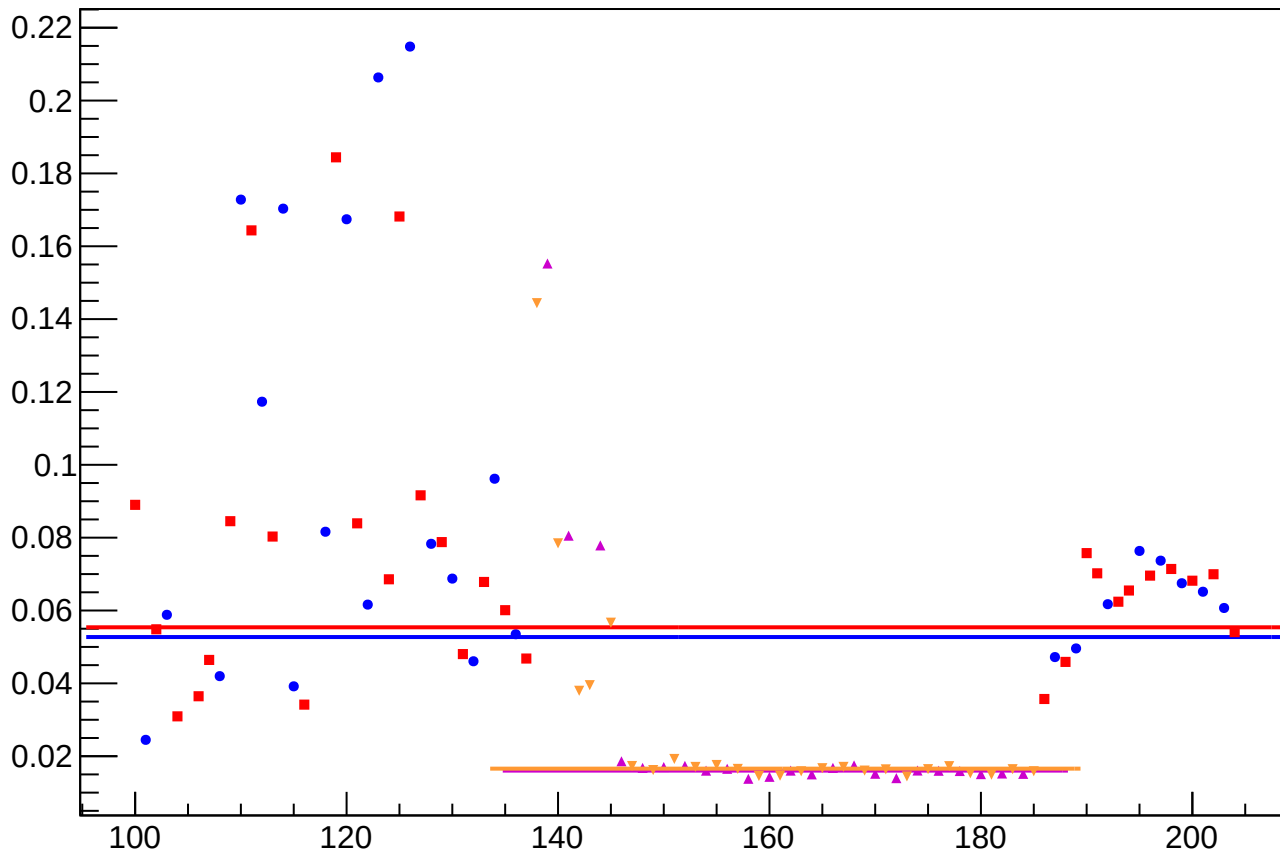
Right: -0.606+/-0.000 χ^2/NDF : 12564057425.2/54

In: 2.132+/-0.000 χ^2/NDF : 89843190321.4/47

Out: 2.159+/-0.000 χ^2/NDF : 98928661919.1/54

All: 2.145+/-0.000 χ^2/NDF : 188791861975.6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3499758.3/24

Left Out: 0.017+/-0.000 χ^2/NDF : 2621162.1/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2836350.2/29

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

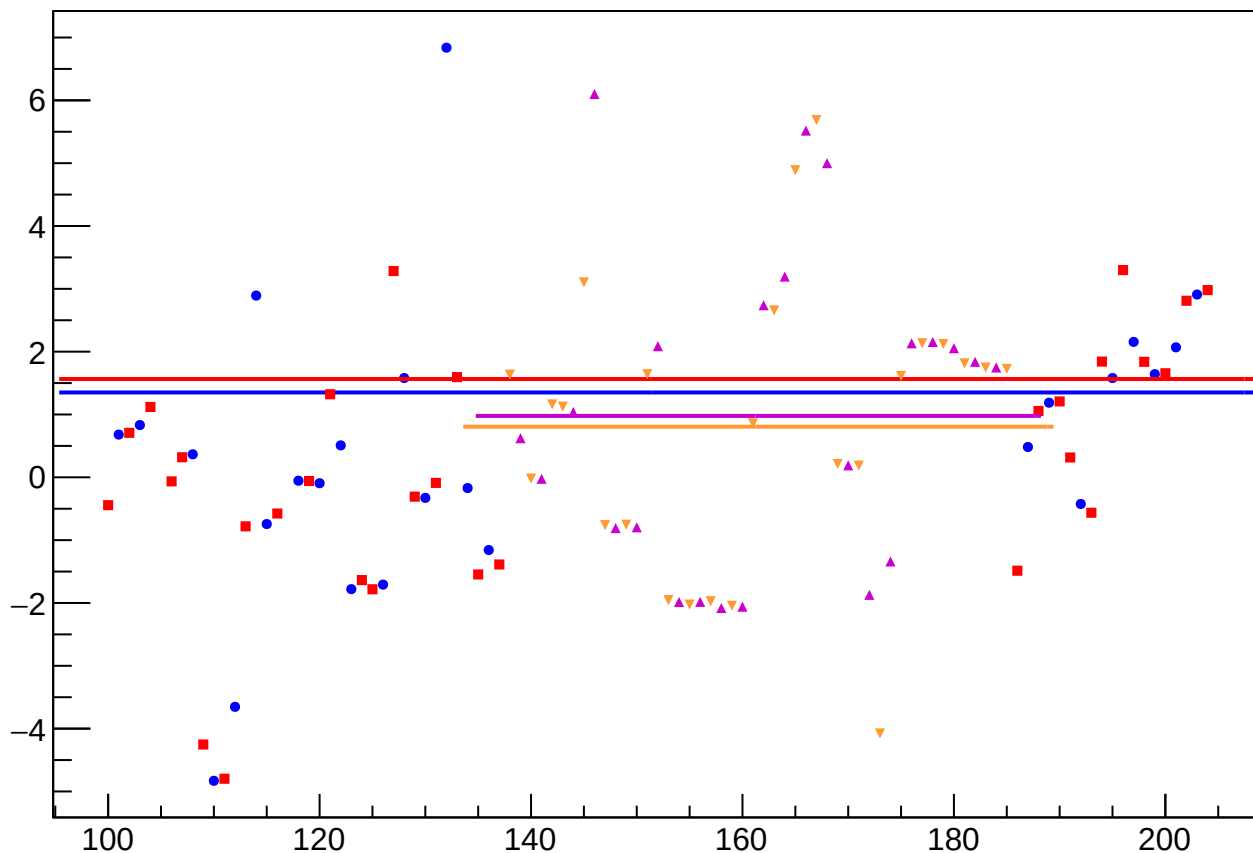
Right: 0.054+/-0.000 χ^2/NDF : 6359081.6/54

In: 0.018+/-0.000 χ^2/NDF : 13569153.2/47

Out: 0.019+/-0.000 χ^2/NDF : 15107775.7/54

All: 0.019+/-0.000 χ^2/NDF : 28727301.0/102

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.350 $\pm$ 0.000

χ^2 /NDF: 26216645040.5/24

Left: 0.892 $\pm$ 0.000 χ^2 /NDF: 1077036497291.8/47

Right: 1.466 $\pm$ 0.000 χ^2 /NDF: 58127486840.7/54

Left Out: 0.806 $\pm$ 0.000

χ^2 /NDF: 507578952196.2/24

In: 1.037 $\pm$ 0.000 χ^2 /NDF: 596317068795.8/47

Right Out: 1.565 $\pm$ 0.000

χ^2 /NDF: 31507993717.0/29

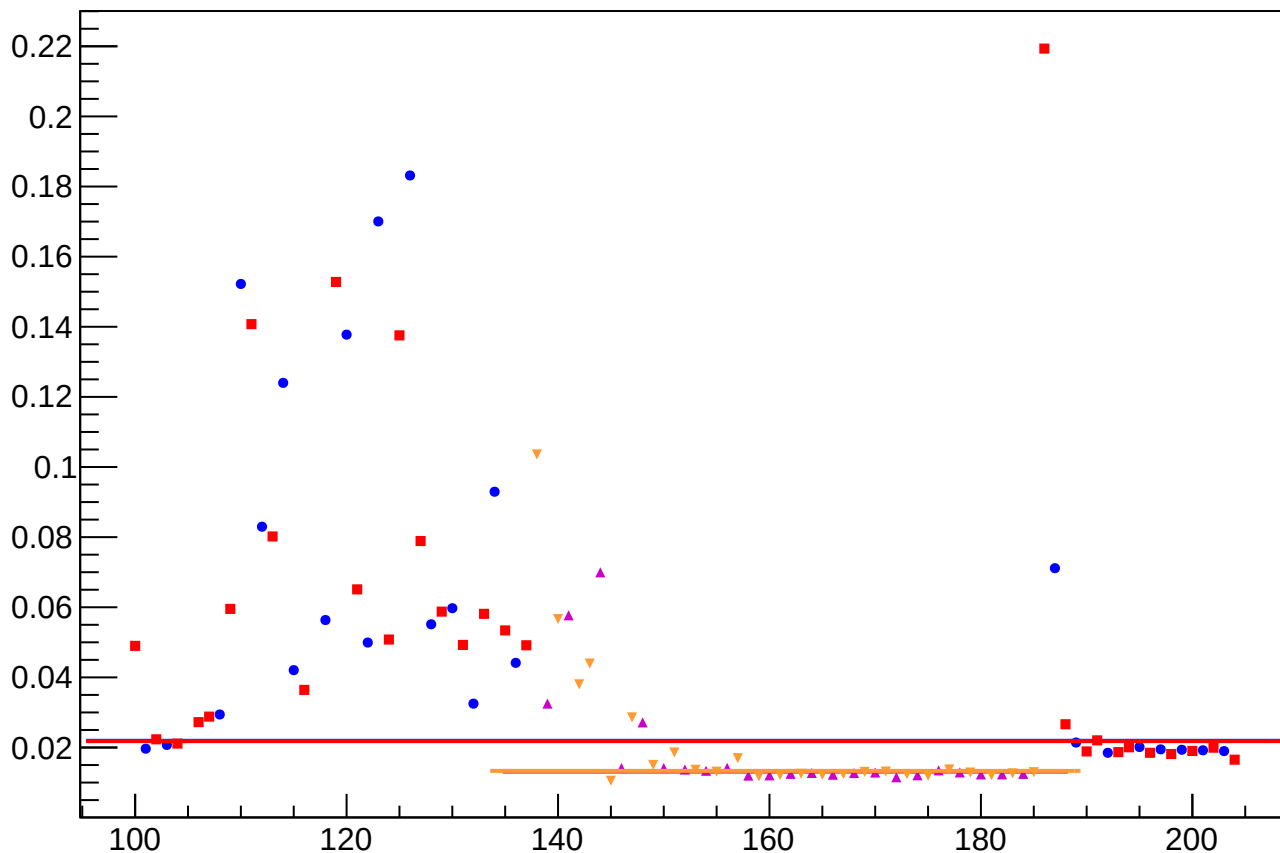
Out: 0.945 $\pm$ 0.000 χ^2 /NDF: 548052708792.3/54

Left In: 0.977 $\pm$ 0.000

χ^2 /NDF: 568209676597.4/22

All: 0.990 $\pm$ 0.000 χ^2 /NDF: 1144801545043.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 3779533.9/24

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.022+/-0.000 χ^2/NDF : 4917339.4/29

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

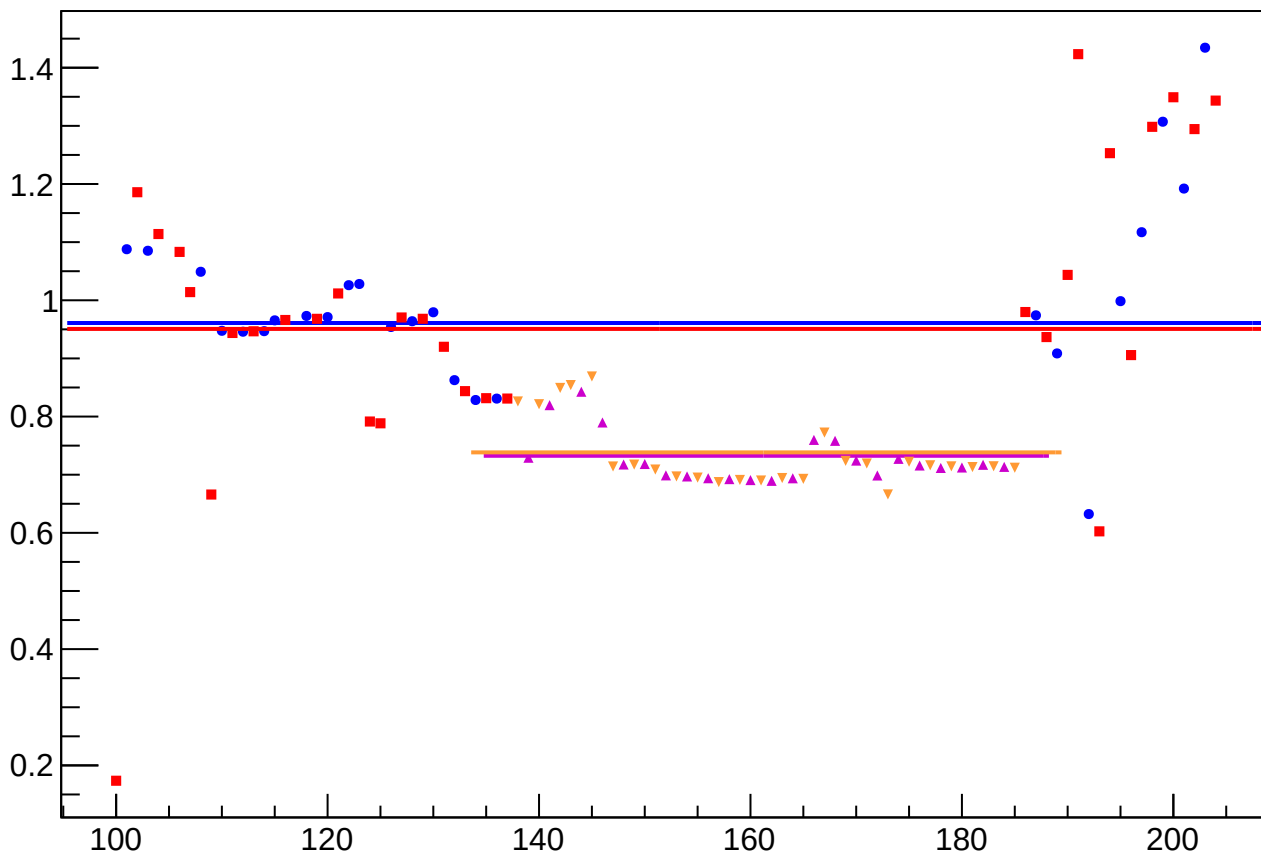
Right: 0.022+/-0.000 χ^2/NDF : 8697008.8/54

In: 0.015+/-0.000 χ^2/NDF :7817113.2/47

Out: 0.015+/-0.000 χ^2/NDF :9986313.6/54

All: 0.015+/-0.000 χ^2/NDF : 17816439.9/102

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.961+/-0.000 χ^2/NDF : 565682635.0/24

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.951+/-0.000 χ^2/NDF : 995231657.9/29

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

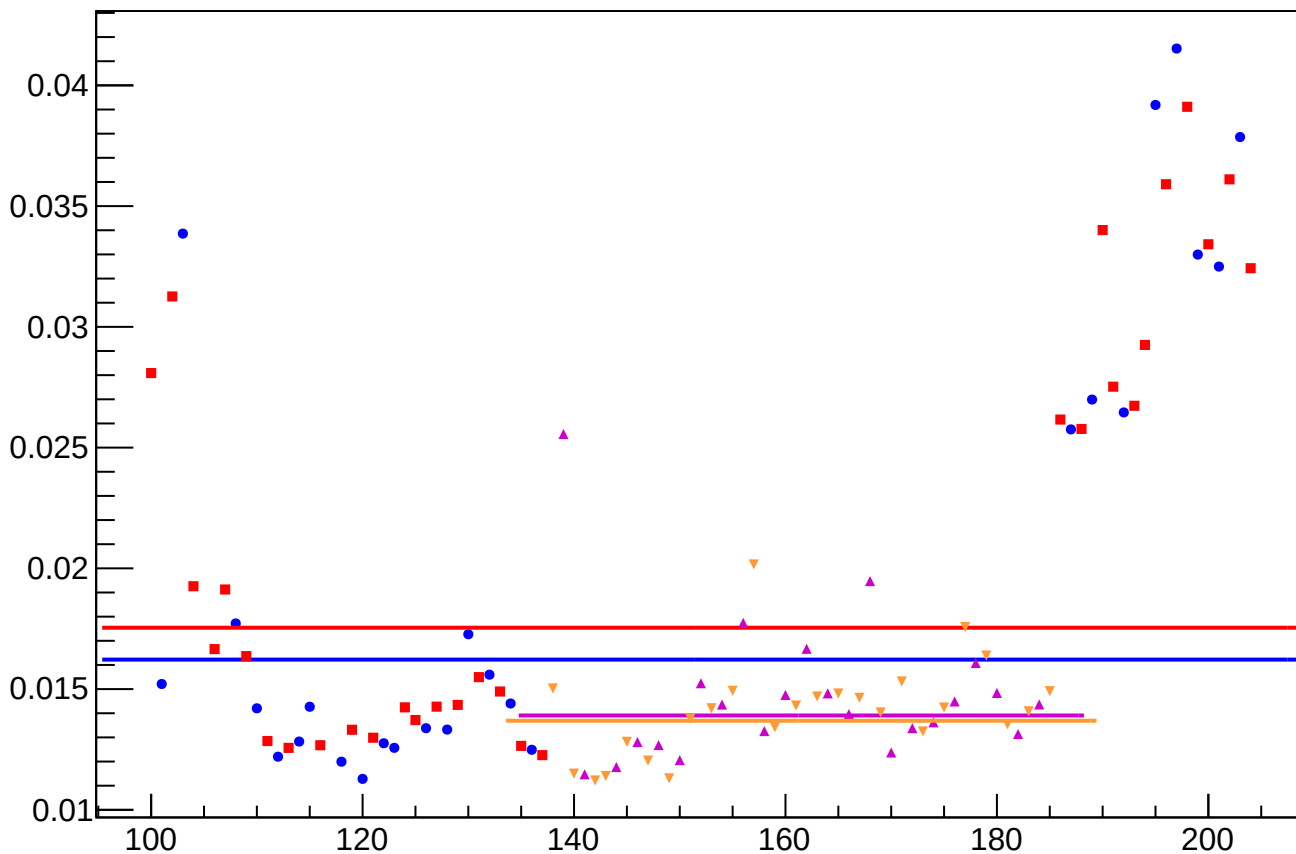
Right: 0.956+/-0.000 χ^2/NDF : 1562775333.9/54

In: 0.803+/-0.000 χ^2/NDF : 2023378143.2/47

Out: 0.801+/-0.000 χ^2/NDF : 2459142827.3/54

All: 0.802+/-0.000 χ^2/NDF : 4482724284.2/100

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 3642064.3/24

Left Out: 0.014+/-0.000 χ^2/NDF :528480.6/24

Right Out: 0.018+/-0.000 χ^2/NDF : 3702664.7/29

Left In: 0.014+/-0.000 χ^2/NDF :768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

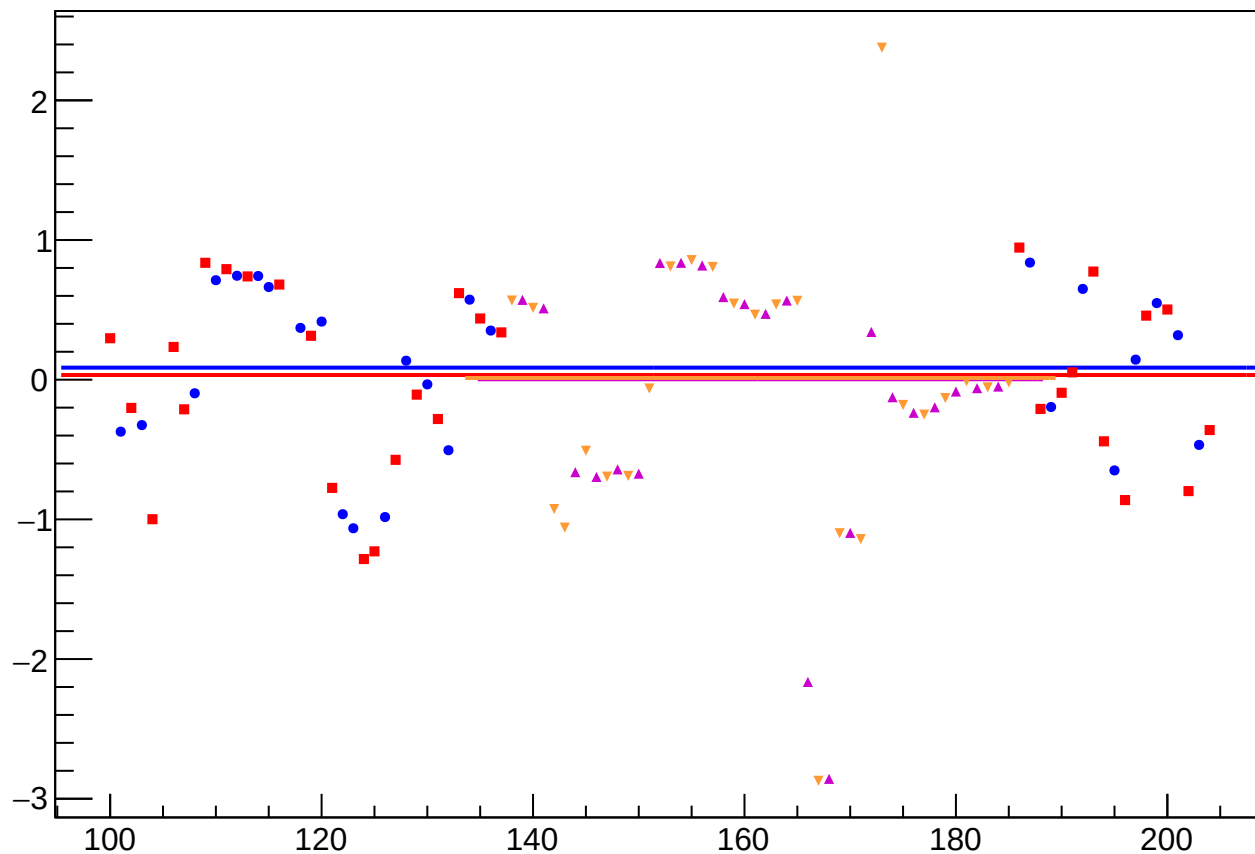
Right: 0.017+/-0.000 χ^2/NDF : 7407584.4/54

In: 0.015+/-0.000 χ^2/NDF :4674671.1/47

Out: 0.015+/-0.000 χ^2/NDF :4990193.3/54

All: 0.015+/-0.000 χ^2/NDF : 9670051.0/102

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.086+/-0.000

χ^2/NDF : 15805978425.2/24

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

Right: 0.057+/-0.000 χ^2/NDF : 44068790965.1/54

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

In: 0.034+/-0.000 χ^2/NDF : 94899334032.1/47

Right Out: 0.034+/-0.000 χ^2/NDF : 28168823121.3/29

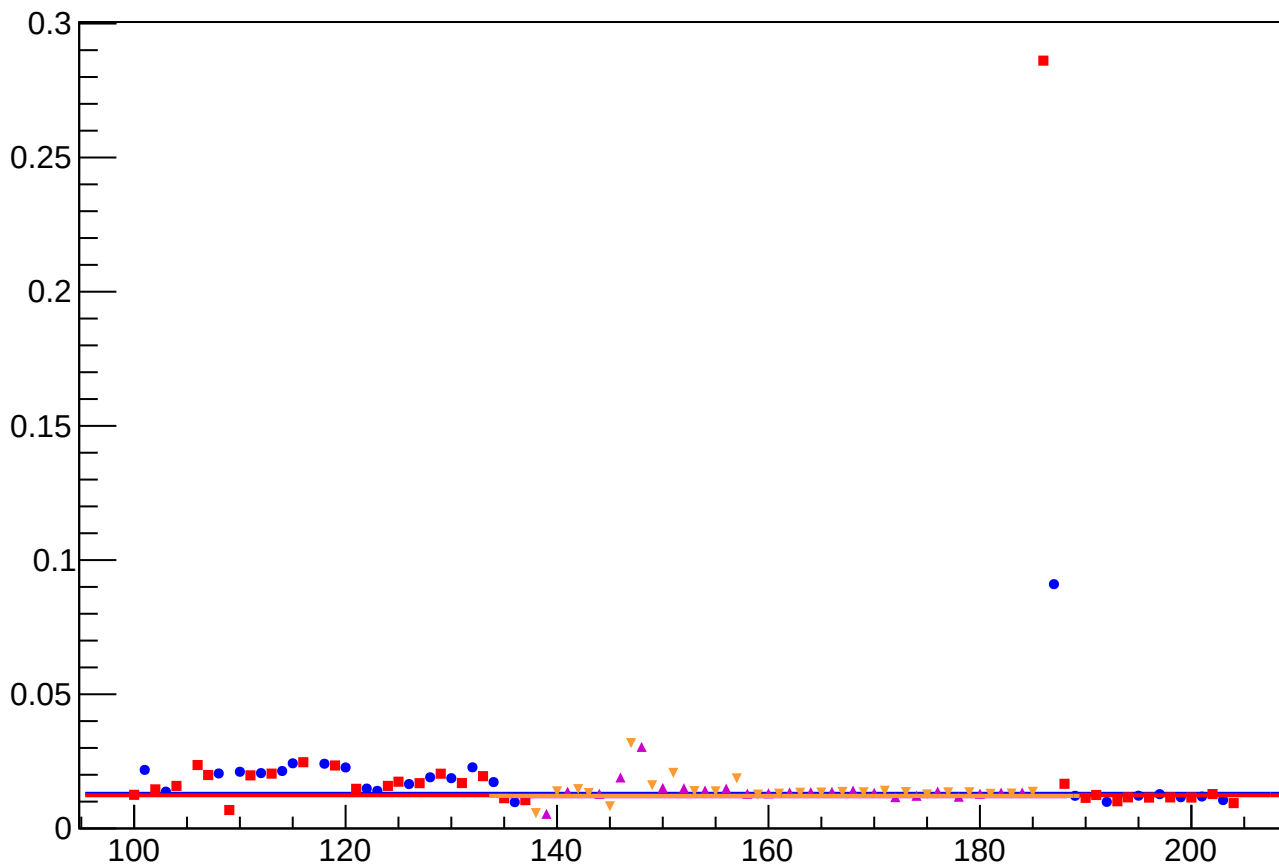
Out: 0.021+/-0.000 χ^2/NDF : 124572667492.5/54

Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.027+/-0.000 χ^2/NDF : 219486344893.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1940730.7/24

Left Out: 0.012+/-0.000 χ^2/NDF : 3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2655396.3/29

Left In: 0.012+/-0.000 χ^2/NDF : 3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

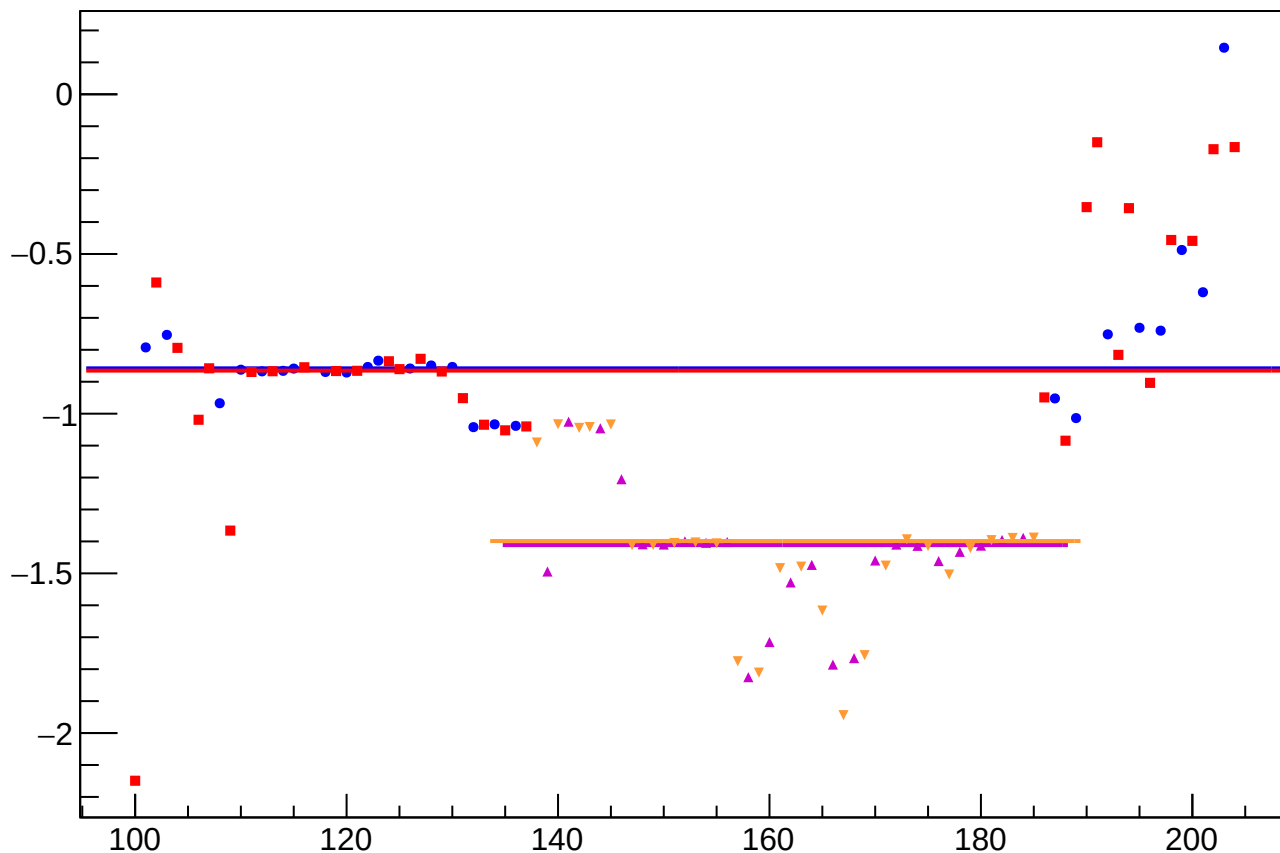
Right: 0.013+/-0.000 χ^2/NDF : 4617393.0/54

In: 0.012+/-0.000 χ^2/NDF : 5009001.8/47

Out: 0.012+/-0.000 χ^2/NDF : 5766023.9/54

All: 0.012+/-0.000 χ^2/NDF : 10777914.3/102

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.858+/-0.000 χ^2/NDF : 169924723.8/24

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.865+/-0.000 χ^2/NDF : 368270105.8/29

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.405+/-0.000 χ^2/NDF : 1251791467.1/47

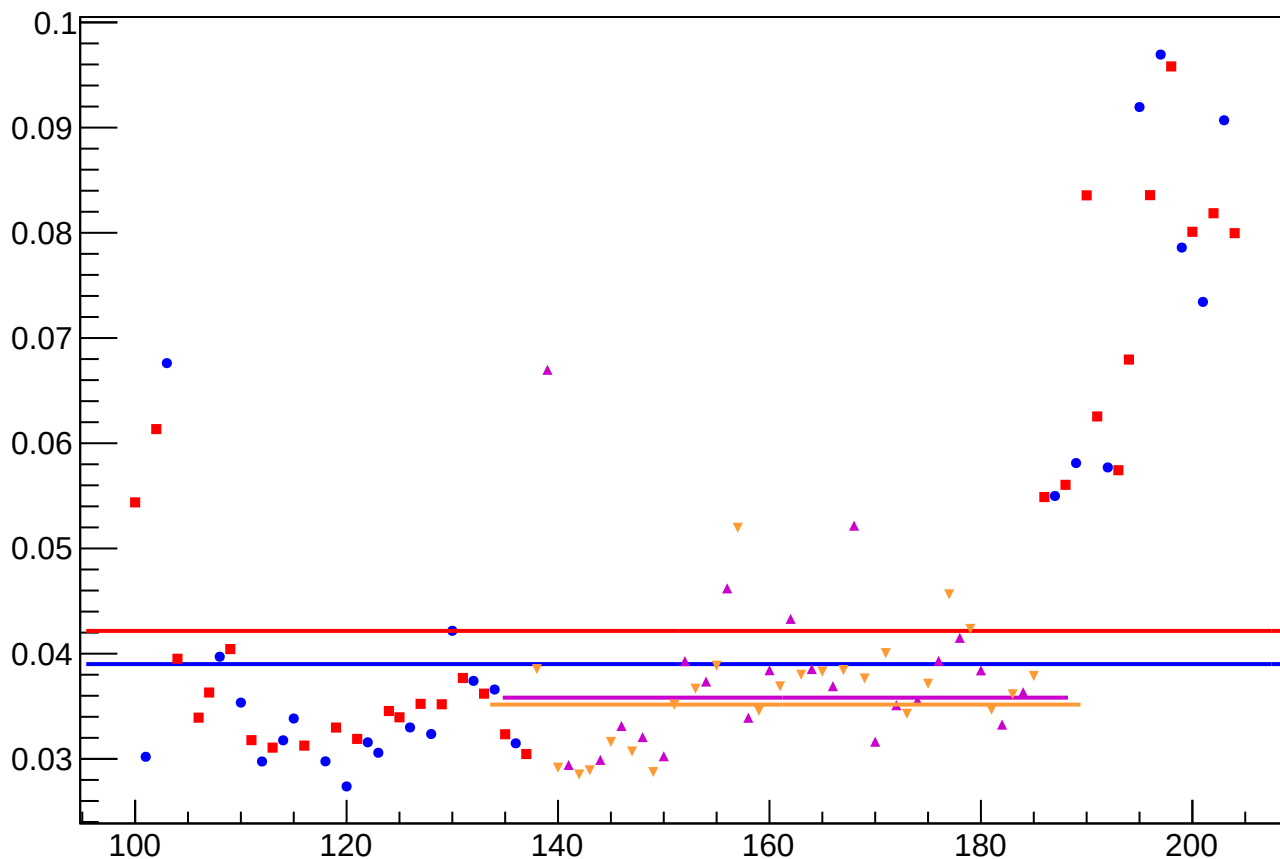
Right: -0.862+/-0.000 χ^2/NDF : 538354214.9/54

In: -1.220+/-0.000 χ^2/NDF : 1945521617.8/47

Out: -1.222+/-0.000 χ^2/NDF : 2327837773.3/54

All: -1.221+/-0.000 χ^2/NDF : 4273421827.2/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.039 $\pm$ 0.000 χ^2 /NDF: 3277770.8/24

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 3204520.6/29

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1464751.5/47

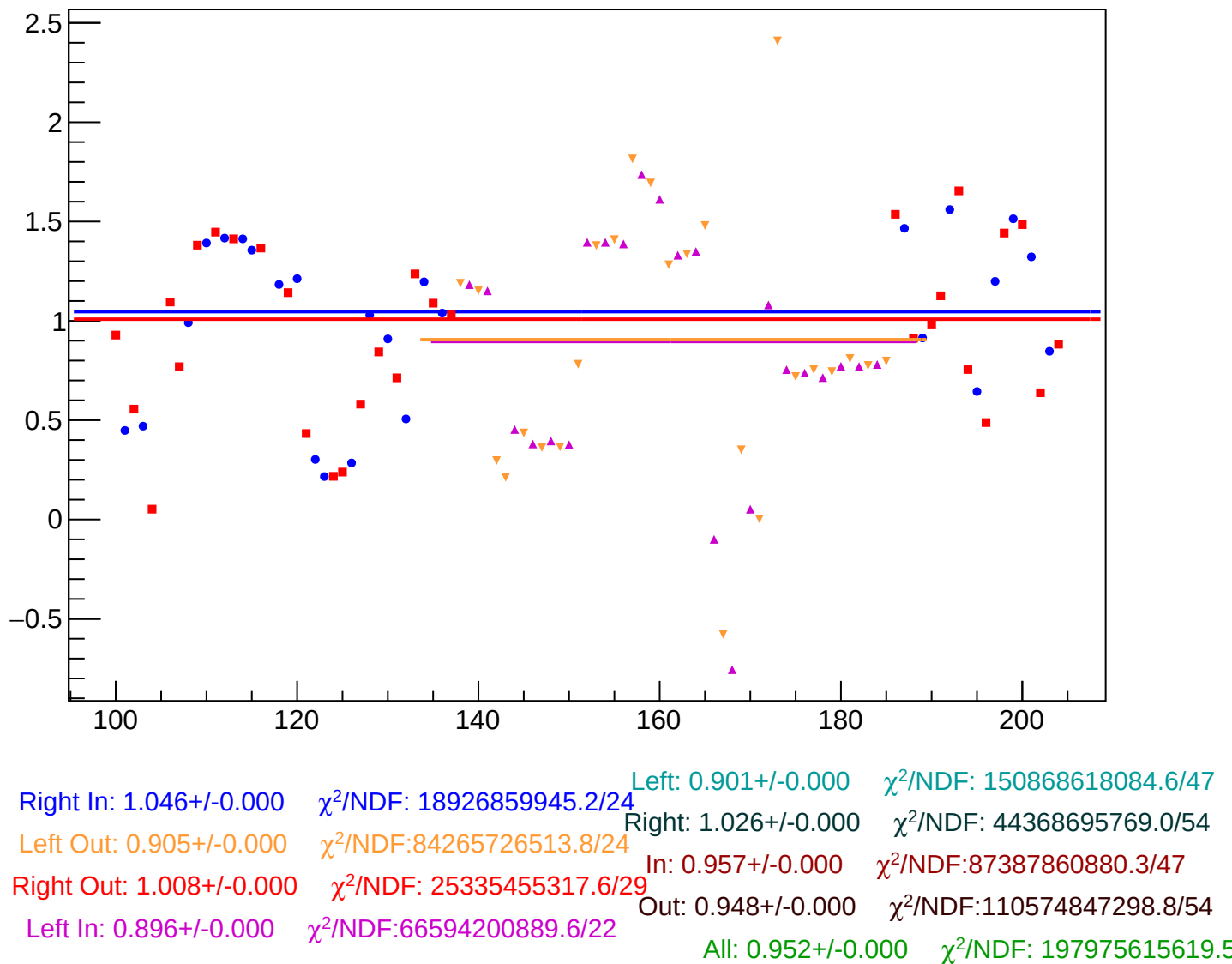
Right: 0.041 $\pm$ 0.000 χ^2 /NDF: 6545617.3/54

In: 0.037 $\pm$ 0.000 χ^2 /NDF:4225804.5/47

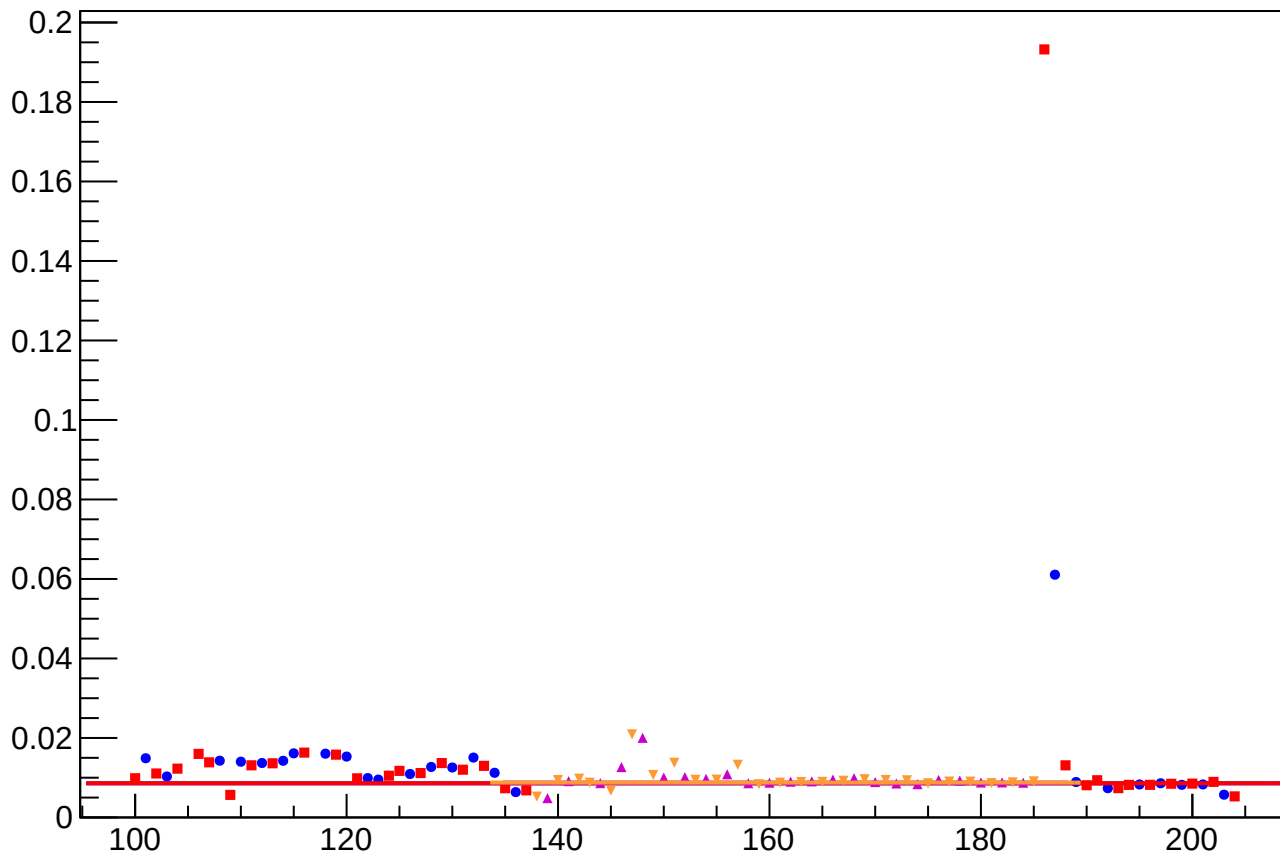
Out: 0.037 $\pm$ 0.000 χ^2 /NDF:4220382.1/54

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 8451928.6/102

yield_bpm12Y_mean vs Slug, Sign Corrected



yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2167322.1/24

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2793719.4/29

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

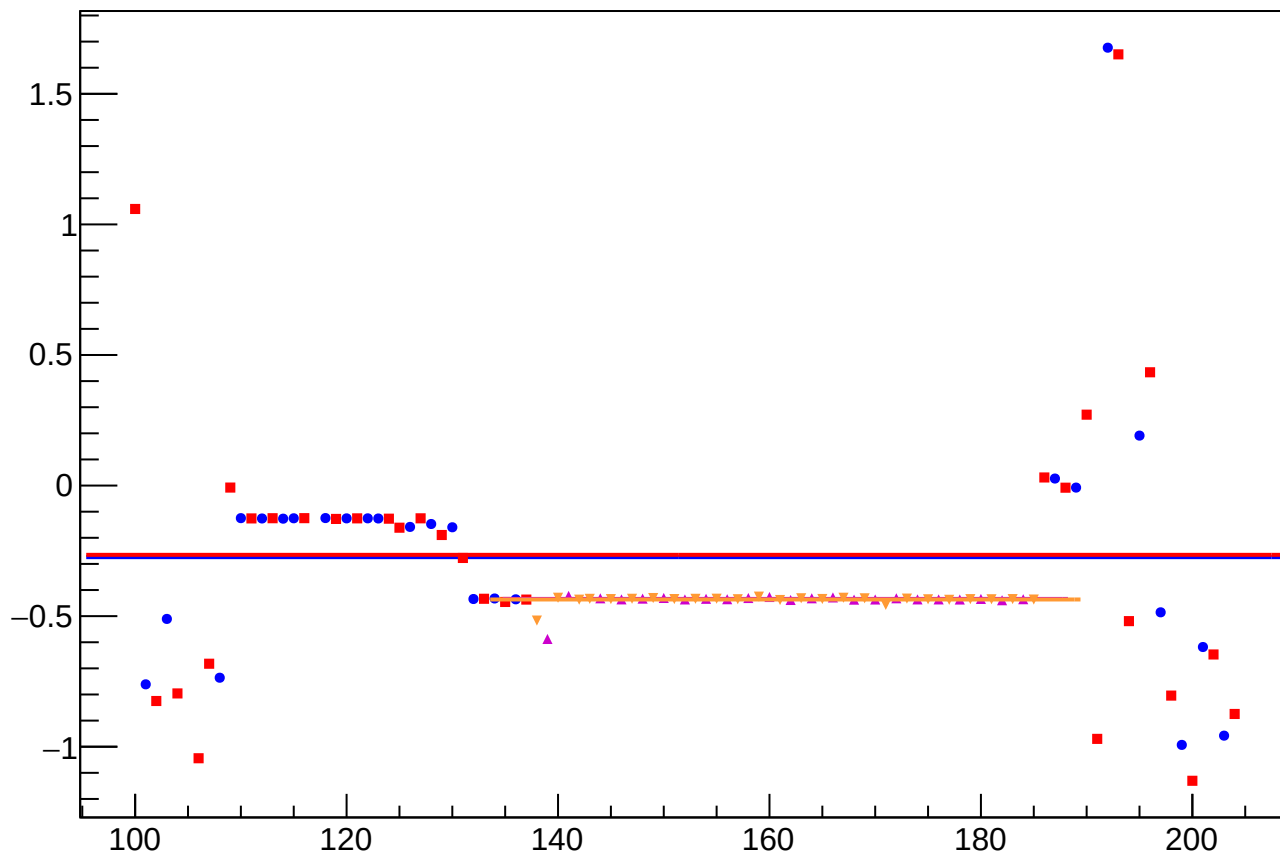
Right: 0.009+/-0.000 χ^2/NDF : 4961051.0/54

In: 0.009+/-0.000 χ^2/NDF :3781008.7/47

Out: 0.009+/-0.000 χ^2/NDF :4497491.3/54

All: 0.009+/-0.000 χ^2/NDF : 8278506.1/102

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.274+/-0.000 χ^2/NDF : 2140121599.0/24

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.265+/-0.000 χ^2/NDF : 2157977316.3/29

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

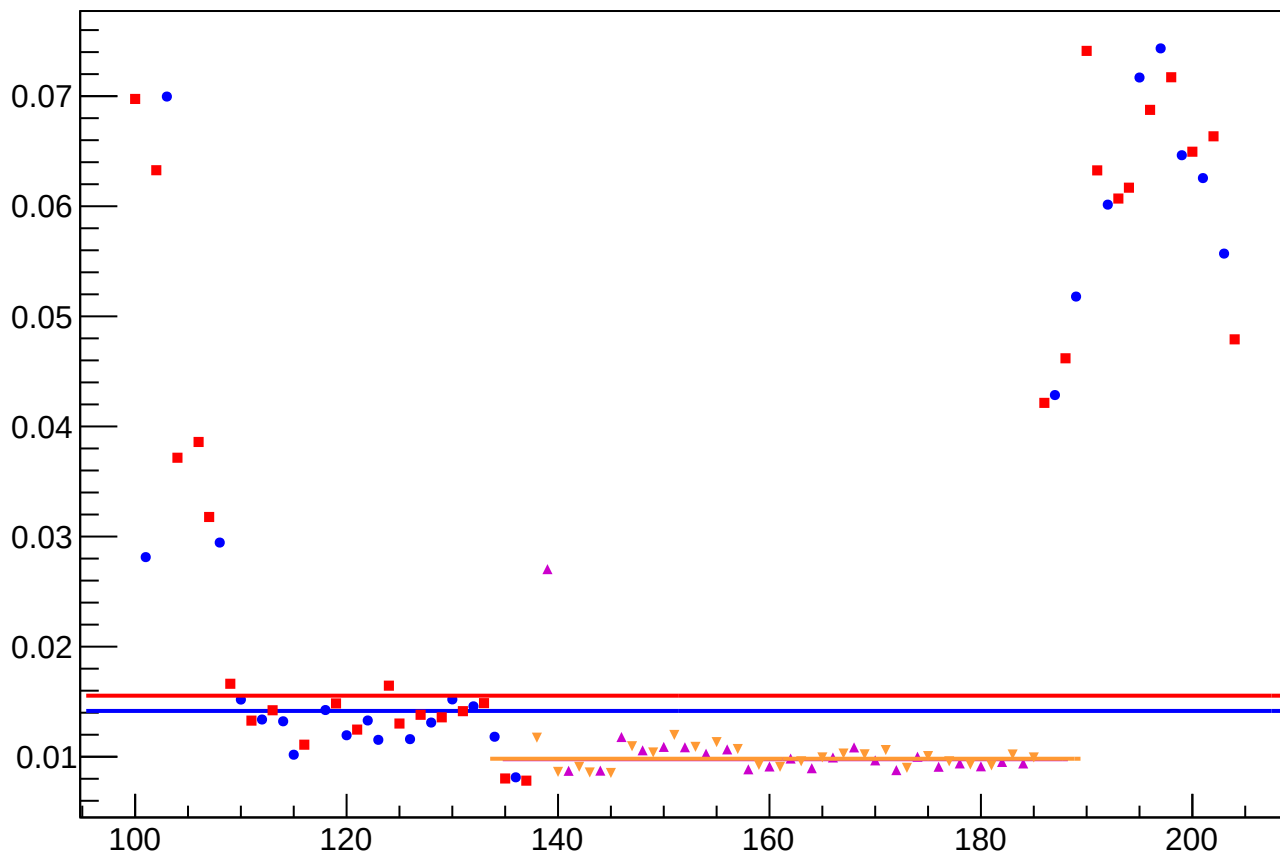
Right: -0.270+/-0.000 χ^2/NDF : 4299388664.7/54

In: -0.405+/-0.000 χ^2/NDF : 2864184872.2/47

Out: -0.408+/-0.000 χ^2/NDF : 2964378733.9/54

All: -0.407+/-0.000 χ^2/NDF : 5829322054.2/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 8245337.7/24

Left Out: 0.010+/-0.000 χ^2/NDF : 269242.6/24

Right Out: 0.016+/-0.000 χ^2/NDF : 9829587.2/29

Left In: 0.010+/-0.000 χ^2/NDF : 747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

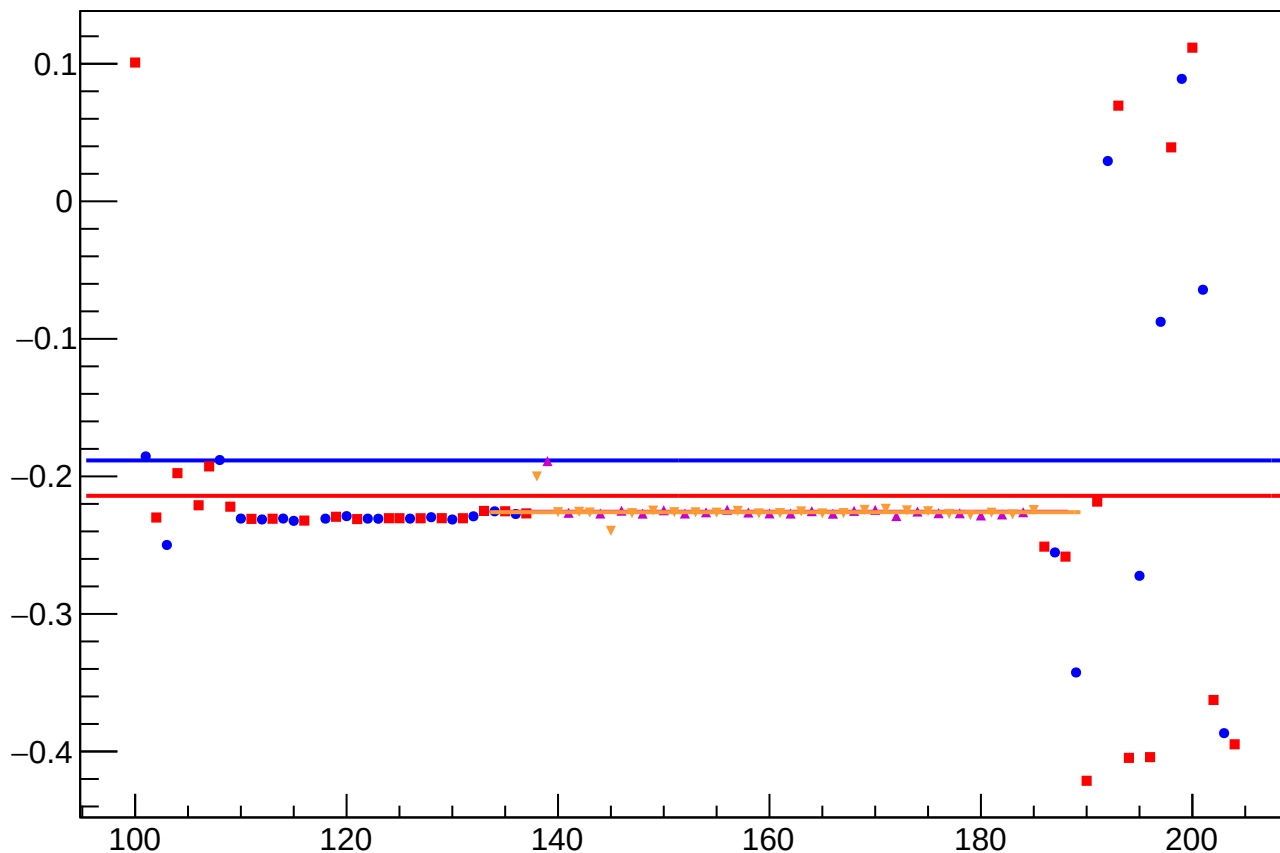
Right: 0.015+/-0.000 χ^2/NDF : 18137452.1/54

In: 0.011+/-0.000 χ^2/NDF : 10046286.6/47

Out: 0.011+/-0.000 χ^2/NDF : 11843475.1/54

All: 0.011+/-0.000 χ^2/NDF : 21897128.7/102

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.188+/-0.000 χ^2/NDF : 5265641466.5/24

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.214+/-0.000 χ^2/NDF : 8458120657.8/29

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

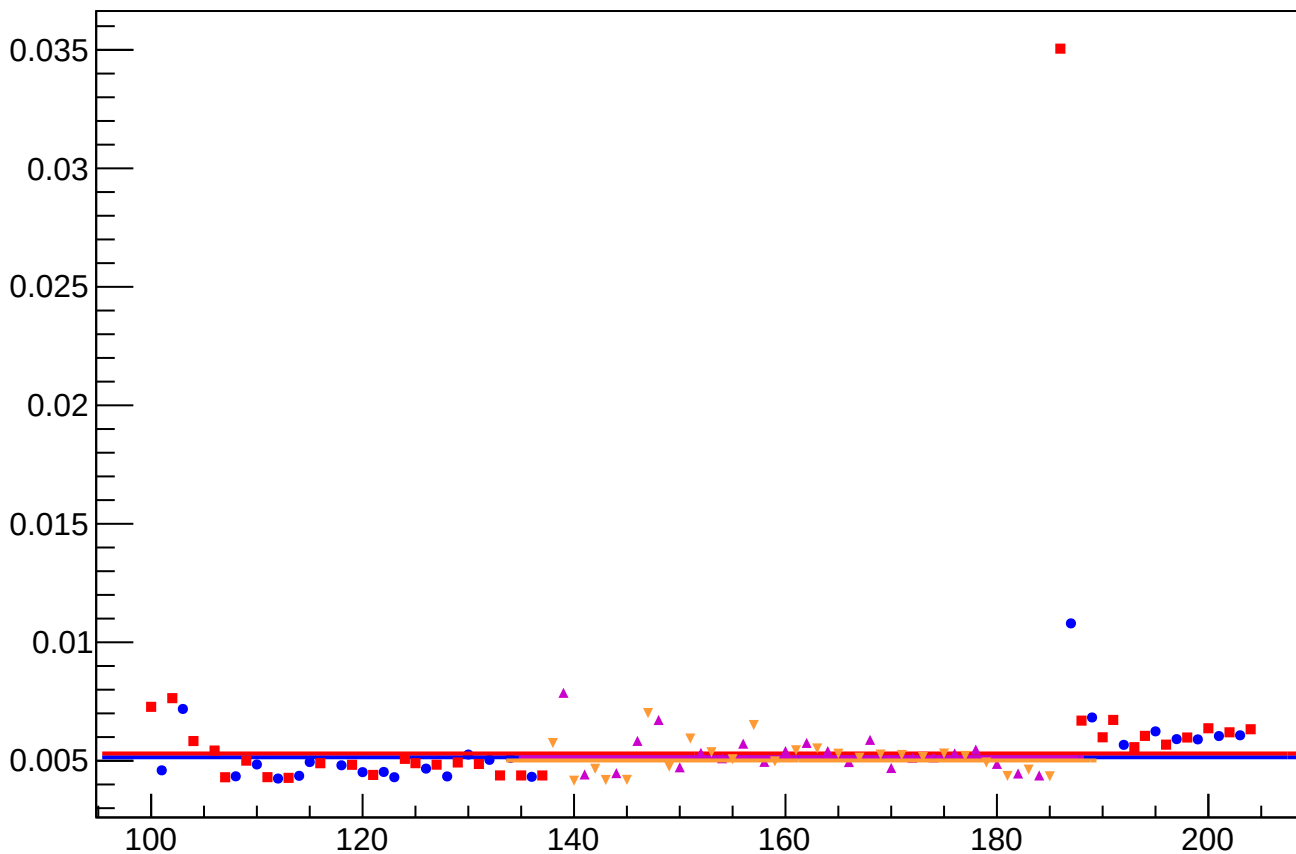
Right: -0.202+/-0.000 χ^2/NDF : 13866783074.4/54

In: -0.211+/-0.000 χ^2/NDF : 5626358166.6/47

Out: -0.221+/-0.000 χ^2/NDF : 8517794720.5/54

All: -0.216+/-0.000 χ^2/NDF : 14205435200.3/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 611353.0/24

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1167146.5/29

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

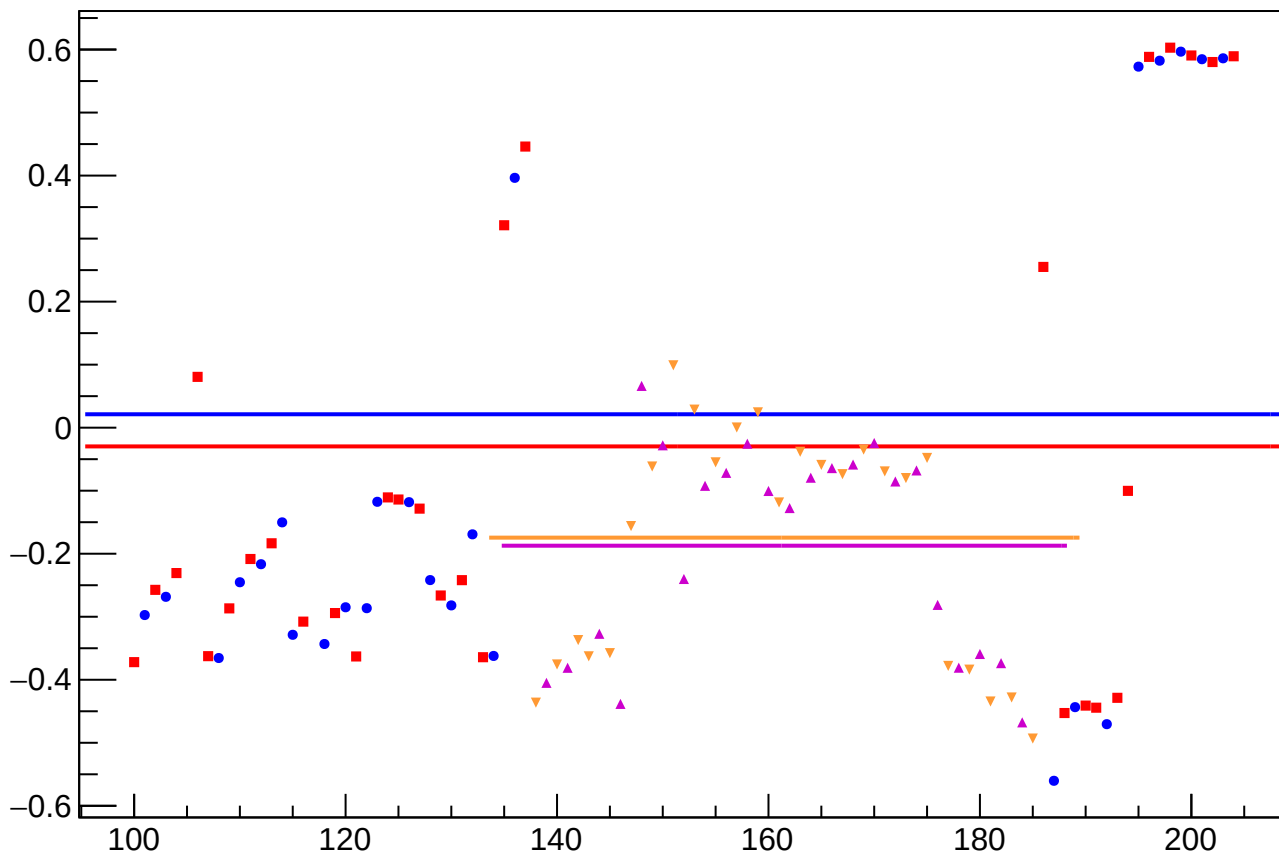
Right: 0.005+/-0.000 χ^2/NDF : 1789582.0/54

In: 0.005+/-0.000 χ^2/NDF : 1104462.6/47

Out: 0.005+/-0.000 χ^2/NDF : 1744992.6/54

All: 0.005+/-0.000 χ^2/NDF : 2849753.2/102

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 47330106931.0/24

Left Out: -0.174+/-0.000 χ^2/NDF : 18025533236.1/24

Right Out: -0.030+/-0.000 χ^2/NDF : 47374401162.3/29

Left In: -0.187+/-0.000 χ^2/NDF : 12816646575.4/22

Left: -0.181+/-0.000 χ^2/NDF : 30888184231.6/47

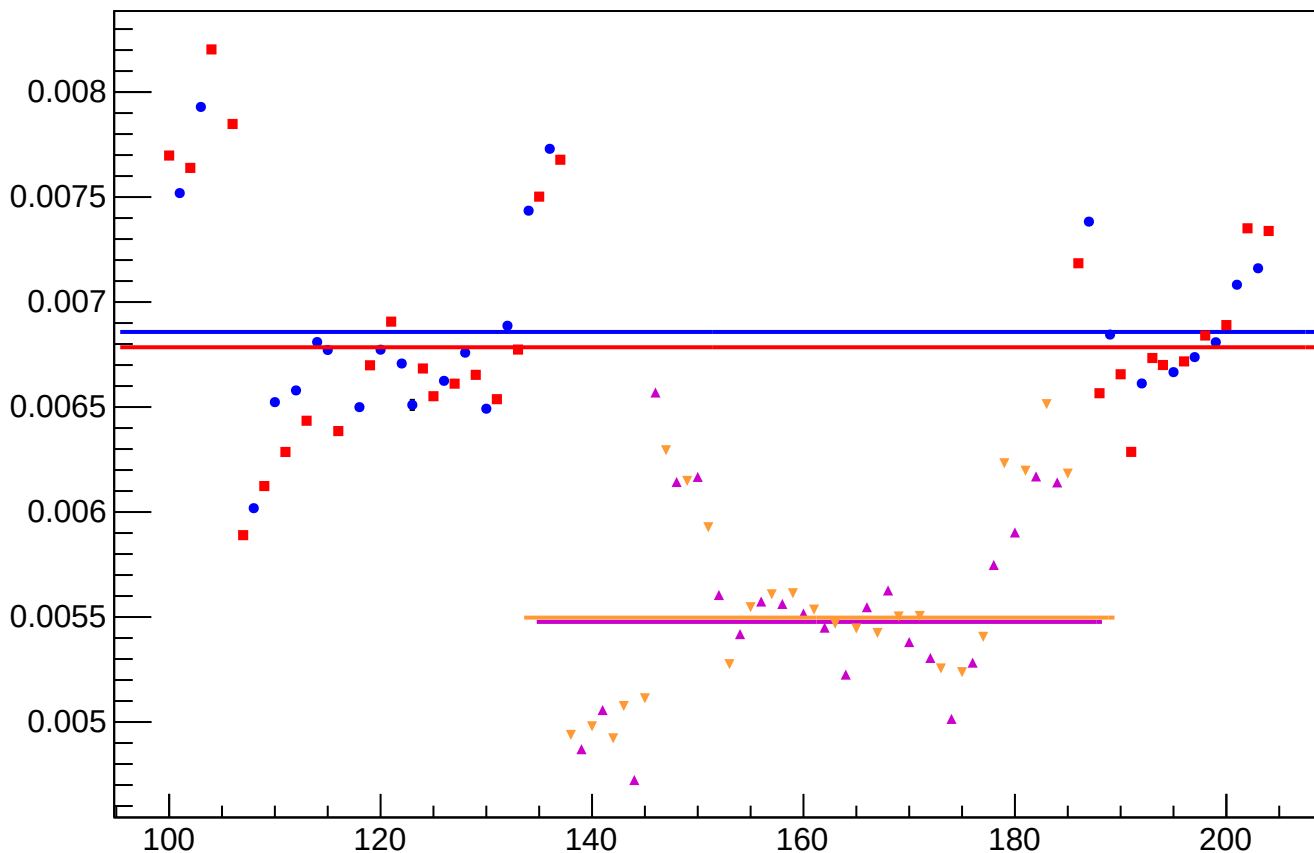
Right: -0.006+/-0.000 χ^2/NDF : 95064122883.6/54

In: -0.121+/-0.000 χ^2/NDF : 67721979059.0/47

Out: -0.125+/-0.000 χ^2/NDF : 69547395525.0/54

All: -0.123+/-0.000 χ^2/NDF : 137276097761.1

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 89007.2/24

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 128337.6/29

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

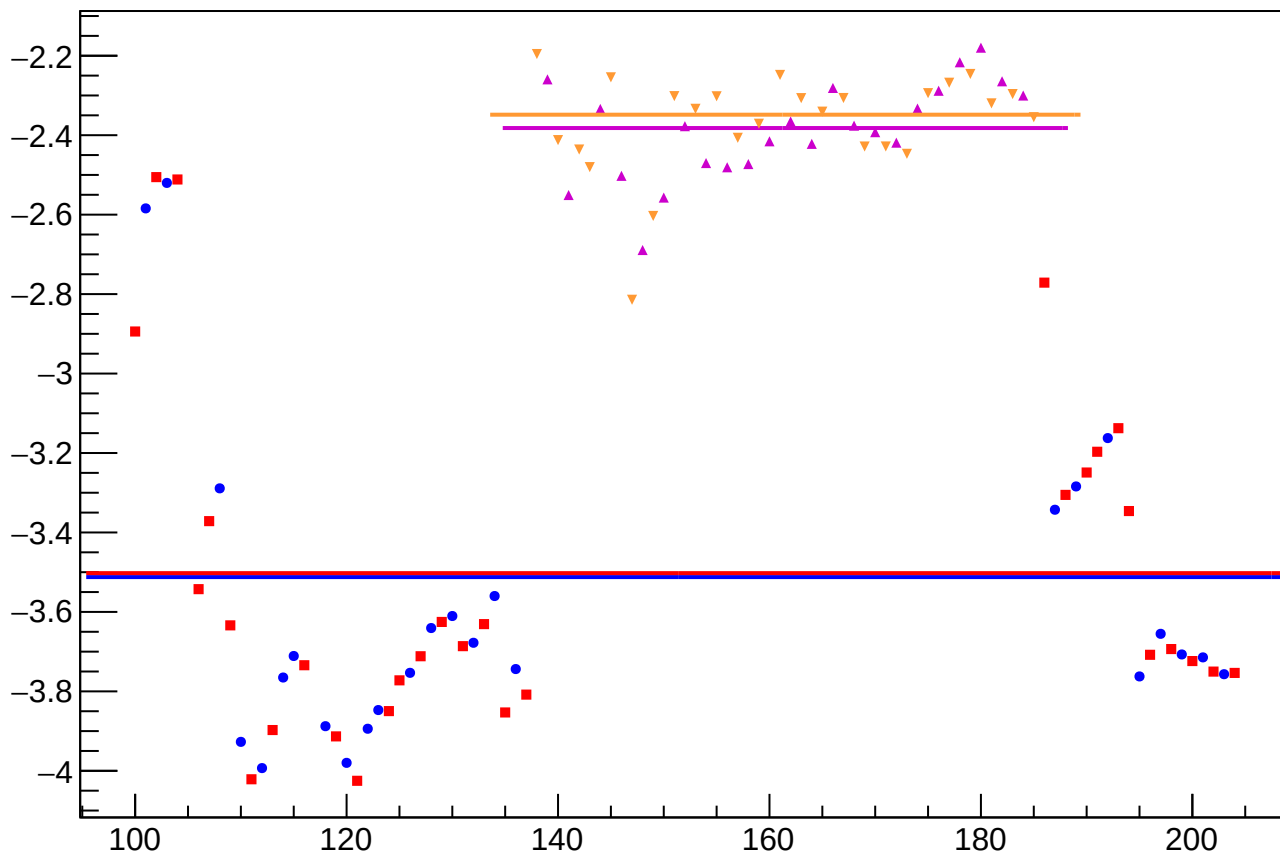
Right: 0.007+/-0.000 χ^2/NDF : 218813.9/54

In: 0.006+/-0.000 χ^2/NDF :955380.7/47

Out: 0.006+/-0.000 χ^2/NDF :983244.0/54

All: 0.006+/-0.000 χ^2/NDF : 1939032.2/102

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.512 $\pm$ 0.000 χ^2 /NDF: 29508929576.2/24

Left Out: -2.348 $\pm$ 0.000 χ^2 /NDF: 2158686333.4/24

Right Out: -3.502 $\pm$ 0.000 χ^2 /NDF: 30621287929.4/29

Left In: -2.382 $\pm$ 0.000 χ^2 /NDF: 2318395228.4/22

Left: -2.365 $\pm$ 0.000 χ^2 /NDF: 4600738143.2/47

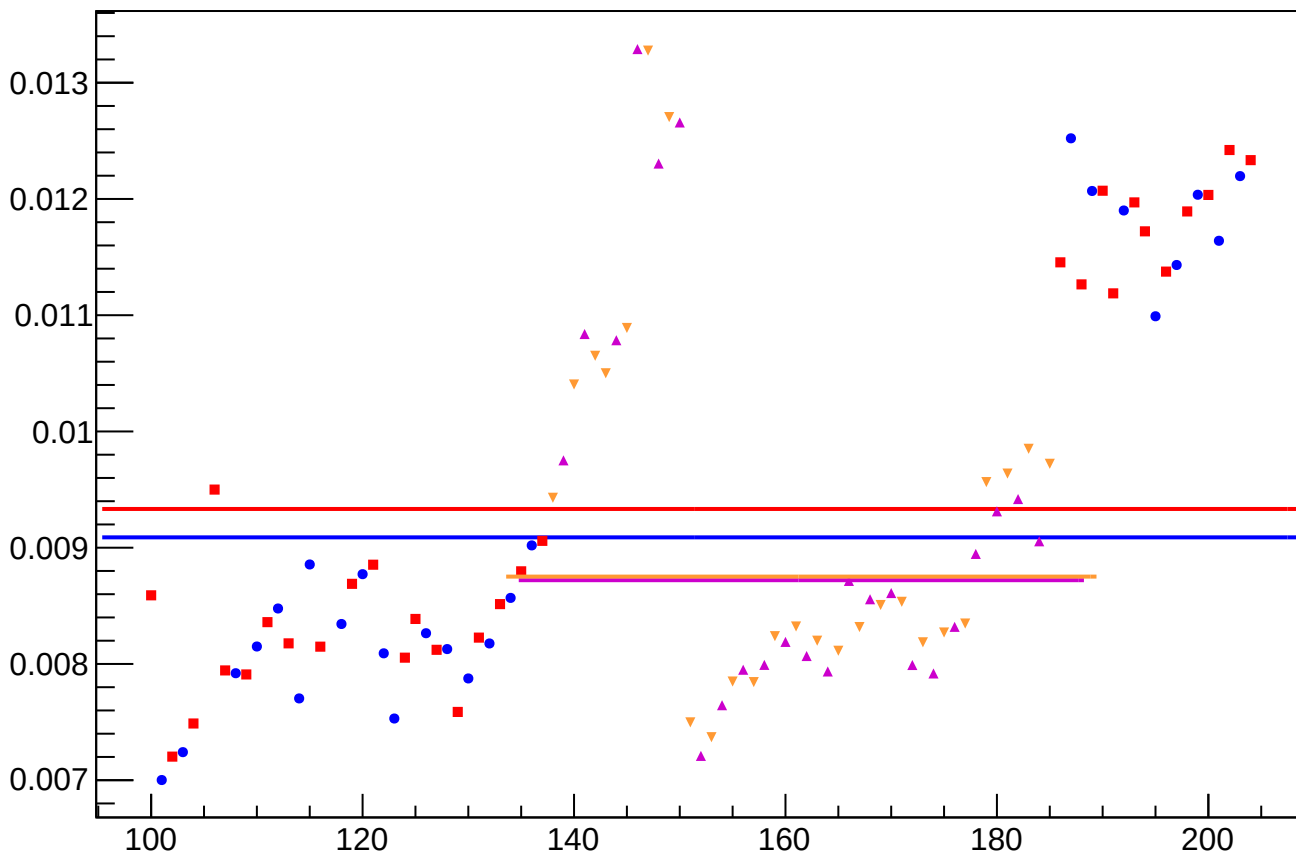
Right: -3.507 $\pm$ 0.000 χ^2 /NDF: 60137389967.1/54

In: -2.829 $\pm$ 0.000 χ^2 /NDF: 139573883359.8/47

Out: -2.815 $\pm$ 0.000 χ^2 /NDF: 153808133039.9/54

All: -2.821 $\pm$ 0.000 χ^2 /NDF: 293418256004.7

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 853618.5/24

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 970196.9/29

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

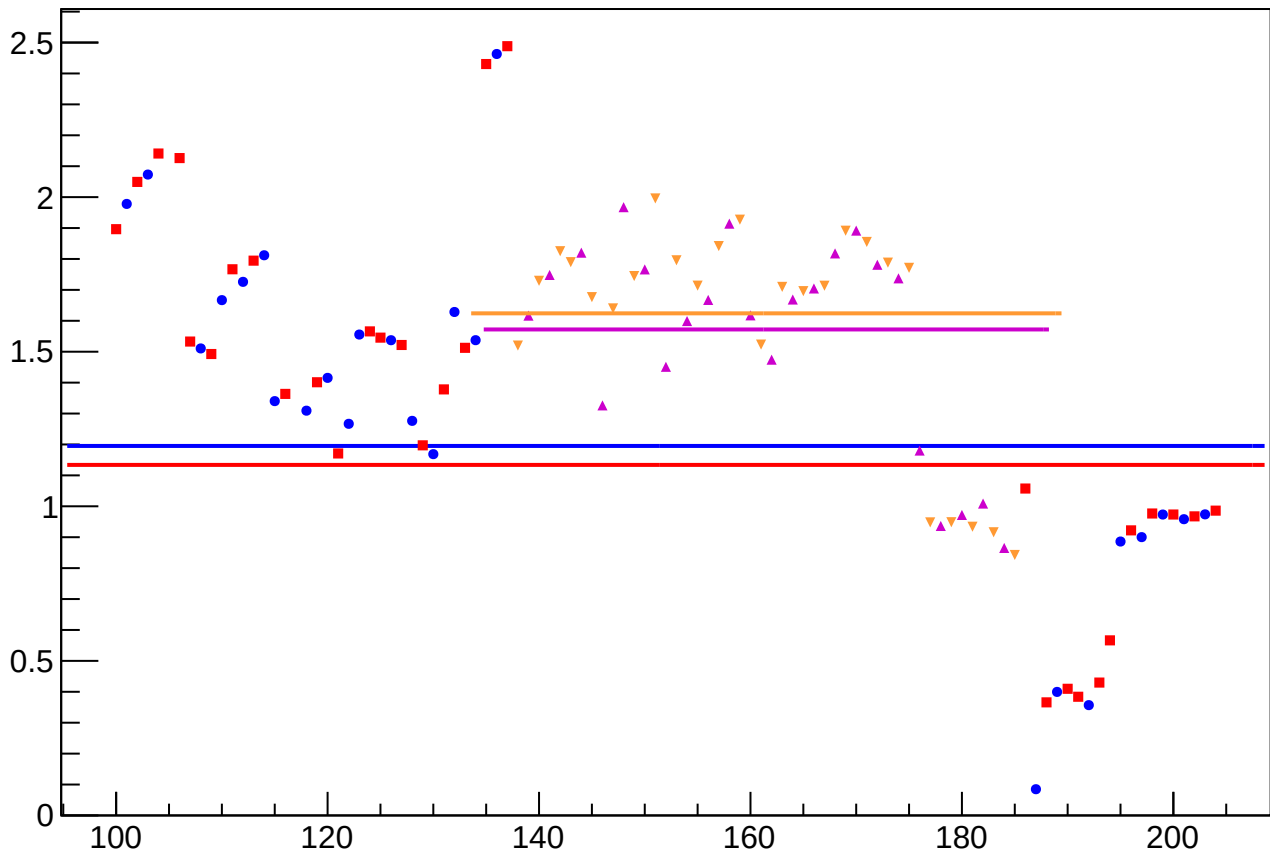
Right: 0.009+/-0.000 χ^2/NDF : 1832506.1/54

In: 0.009+/-0.000 χ^2/NDF :1624386.8/47

Out: 0.009+/-0.000 χ^2/NDF :1695398.4/54

All: 0.009+/-0.000 χ^2/NDF : 3325067.1/102

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.195 $\pm$ 0.000 χ^2 /NDF: 27113129985.1/24

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 16631112386.4/24

Right Out: 1.134 $\pm$ 0.000 χ^2 /NDF: 32584234065.5/29

Left In: 1.572 $\pm$ 0.000 χ^2 /NDF: 14230484809.4/22

Left: 1.599 $\pm$ 0.000 χ^2 /NDF: 31067753064.6/47

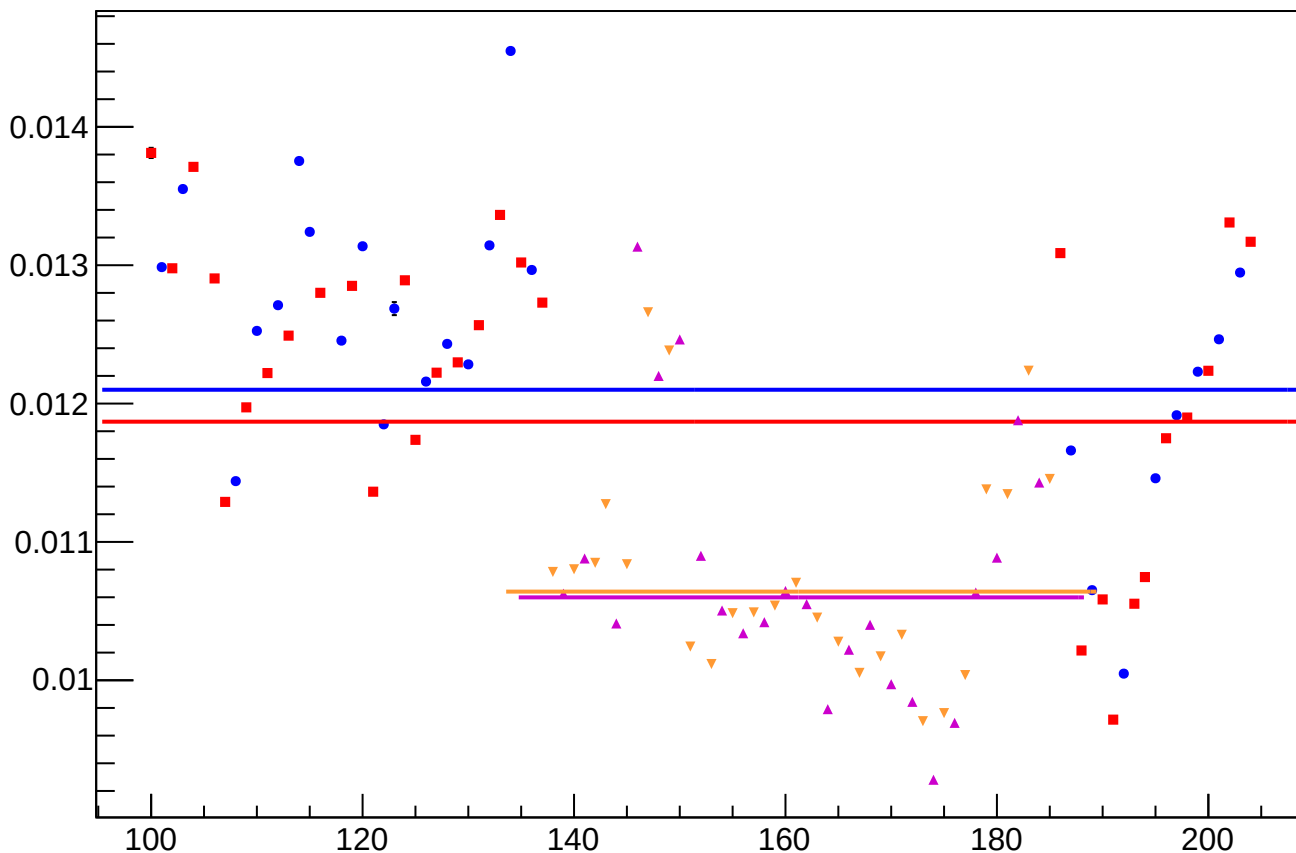
Right: 1.162 $\pm$ 0.000 χ^2 /NDF: 59864339128.9/54

In: 1.438 $\pm$ 0.000 χ^2 /NDF: 48793589733.9/47

Out: 1.435 $\pm$ 0.000 χ^2 /NDF: 63644844743.9/54

All: 1.437 $\pm$ 0.000 χ^2 /NDF: 112439304308.8

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 164379.3/24

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 225092.1/29

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

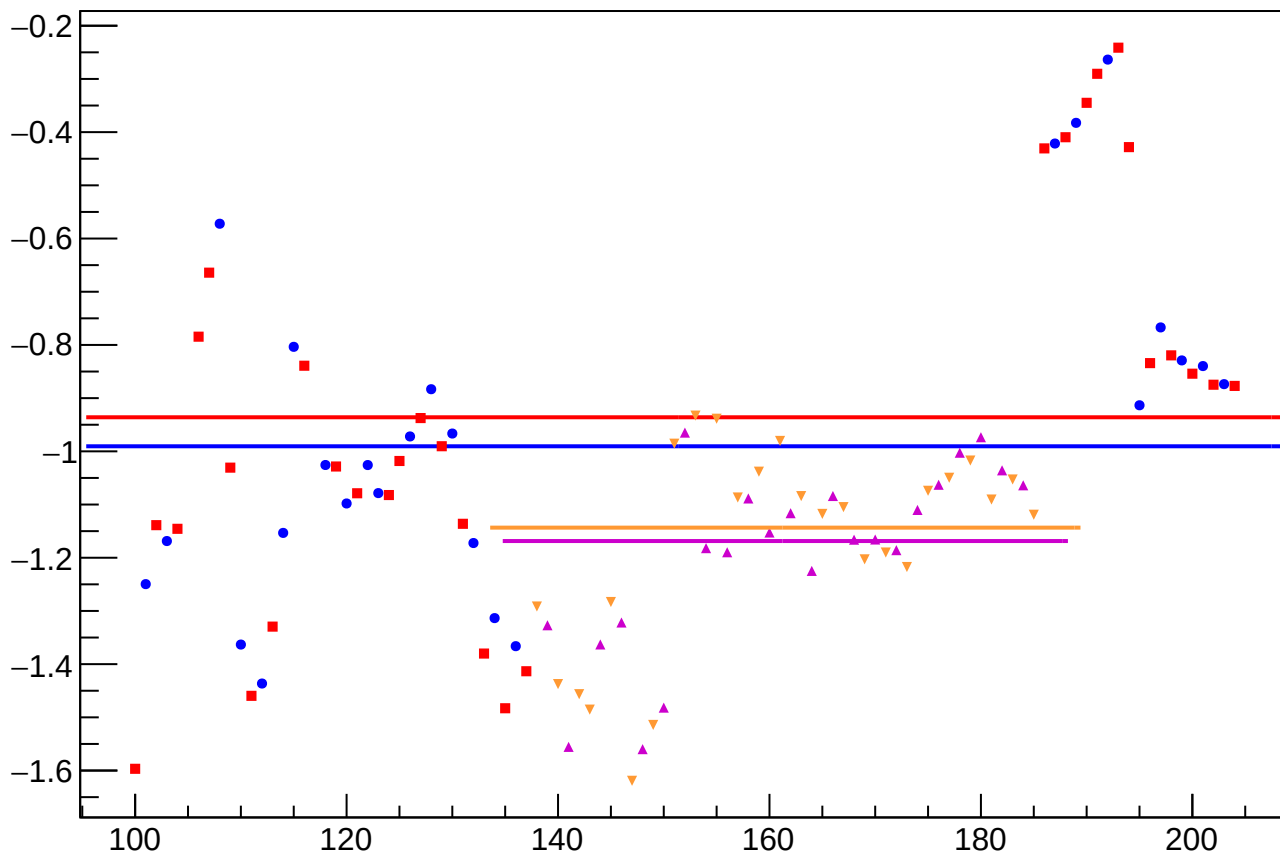
Right: 0.012+/-0.000 χ^2/NDF : 394199.1/54

In: 0.011+/-0.000 χ^2/NDF :605317.2/47

Out: 0.011+/-0.000 χ^2/NDF :566008.9/54

All: 0.011+/-0.000 χ^2/NDF : 1171410.6/102

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.990 ± 0.000 $\chi^2/\text{NDF}: 10806590123.0/24$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -0.936 ± 0.000 $\chi^2/\text{NDF}: 15769464108.1/29$

Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

Left: -1.156 ± 0.000 $\chi^2/\text{NDF}: 14424995220.9/47$

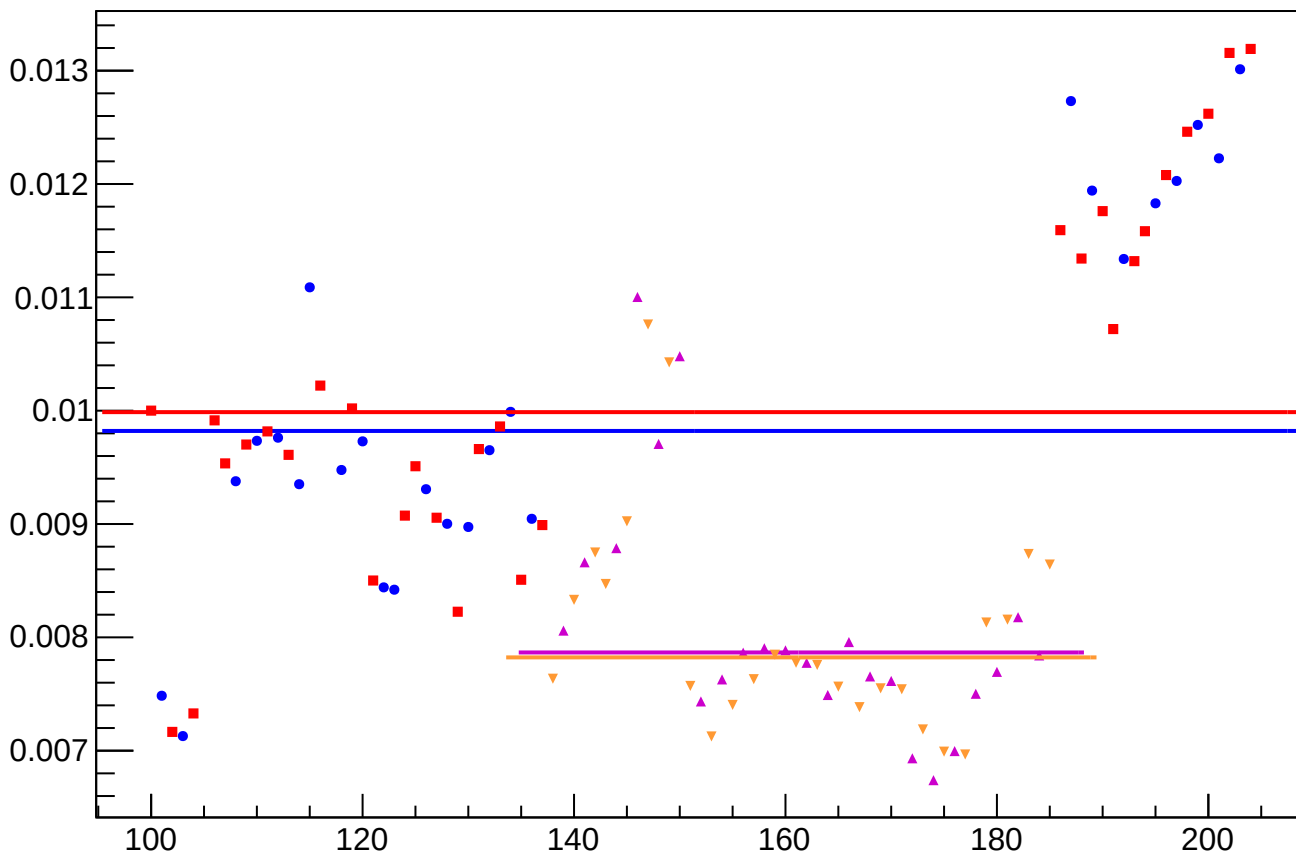
Right: -0.962 ± 0.000 $\chi^2/\text{NDF}: 26762159322.8/54$

In: -1.113 ± 0.000 $\chi^2/\text{NDF}: 19761802919.9/47$

Out: -1.077 ± 0.000 $\chi^2/\text{NDF}: 27614346736.6/54$

All: -1.094 ± 0.000 $\chi^2/\text{NDF}: 47636775077.2/100$

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 724975.0/24

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 820613.1/29

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

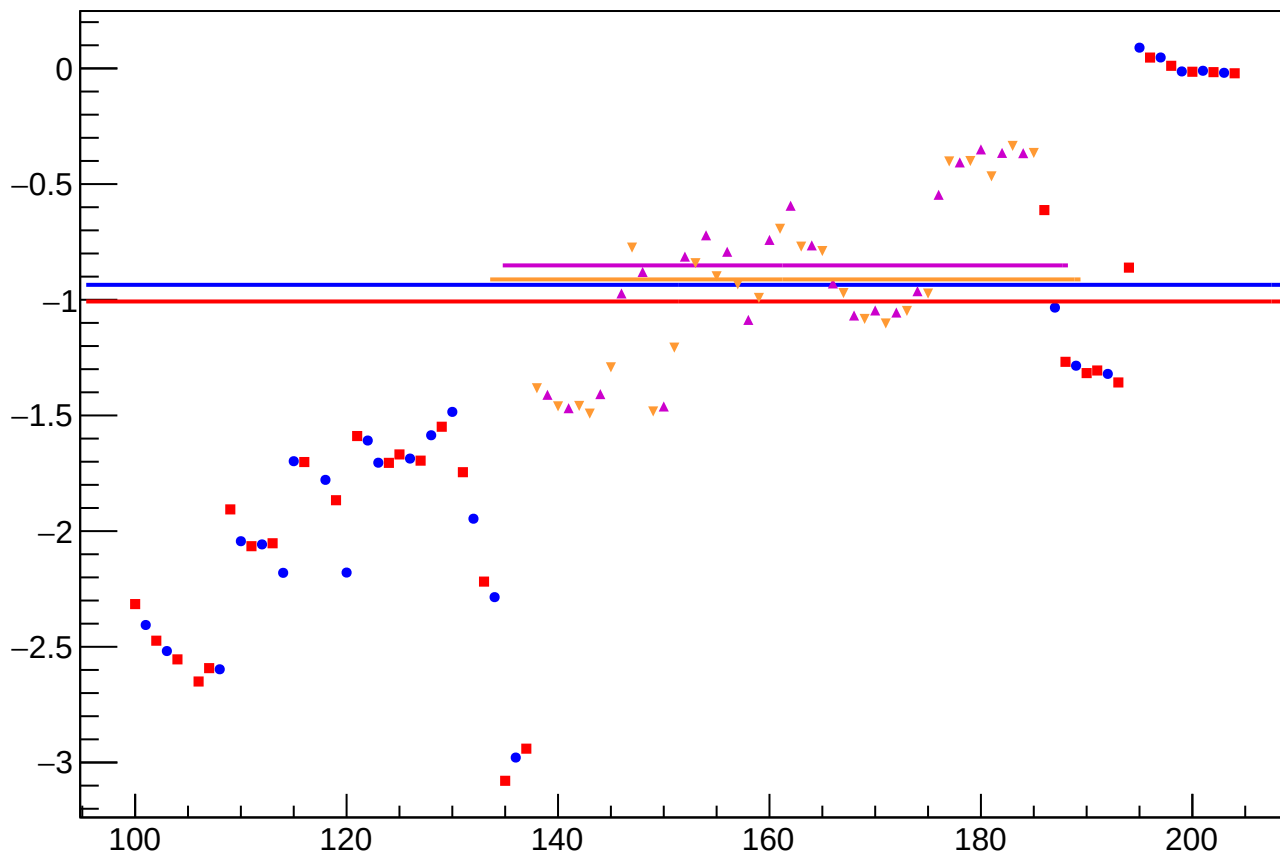
Right: 0.010+/-0.000 χ^2/NDF : 1549042.2/54

In: 0.008+/-0.000 χ^2/NDF :1729174.2/47

Out: 0.009+/-0.000 χ^2/NDF :1999201.0/54

All: 0.008+/-0.000 χ^2/NDF : 3729072.8/102

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.935+/-0.000

χ^2/NDF : 310872491750.4/24

Left: -0.882+/-0.000

χ^2/NDF : 96285672564.6/47

Right: -0.976+/-0.000

χ^2/NDF : 640636622458.2/54

Left Out: -0.912+/-0.000

χ^2/NDF : 49039425818.1/24

In: -0.884+/-0.000

χ^2/NDF : 358511591714.8/47

Right Out: -1.007+/-0.000

χ^2/NDF : 328950224897.9/29

Out: -0.955+/-0.000

χ^2/NDF : 379799589701.6/54

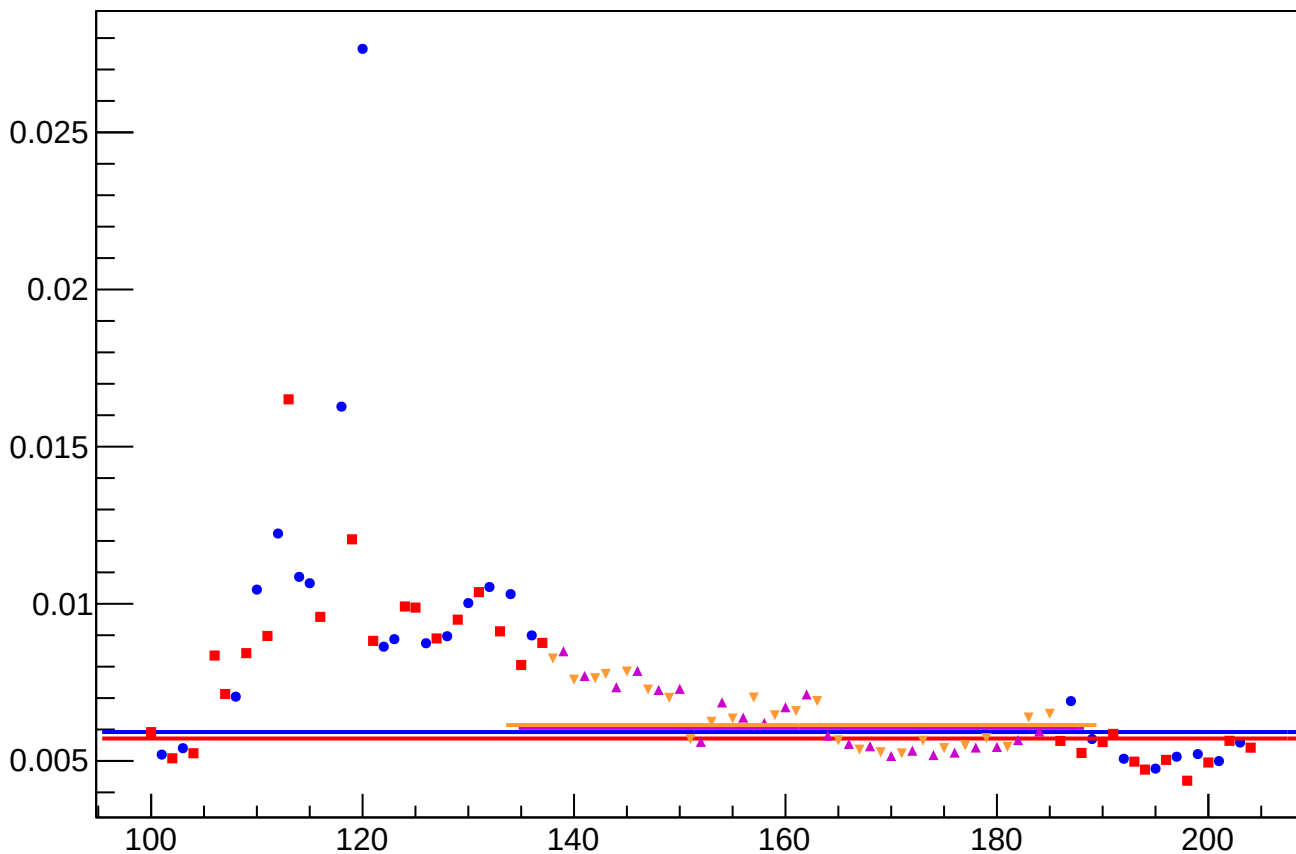
Left In: -0.851+/-0.000

χ^2/NDF : 46438446008.2/22

All: -0.922+/-0.000

χ^2/NDF : 740186268776.6

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1943804.6/24

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1882288.4/29

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

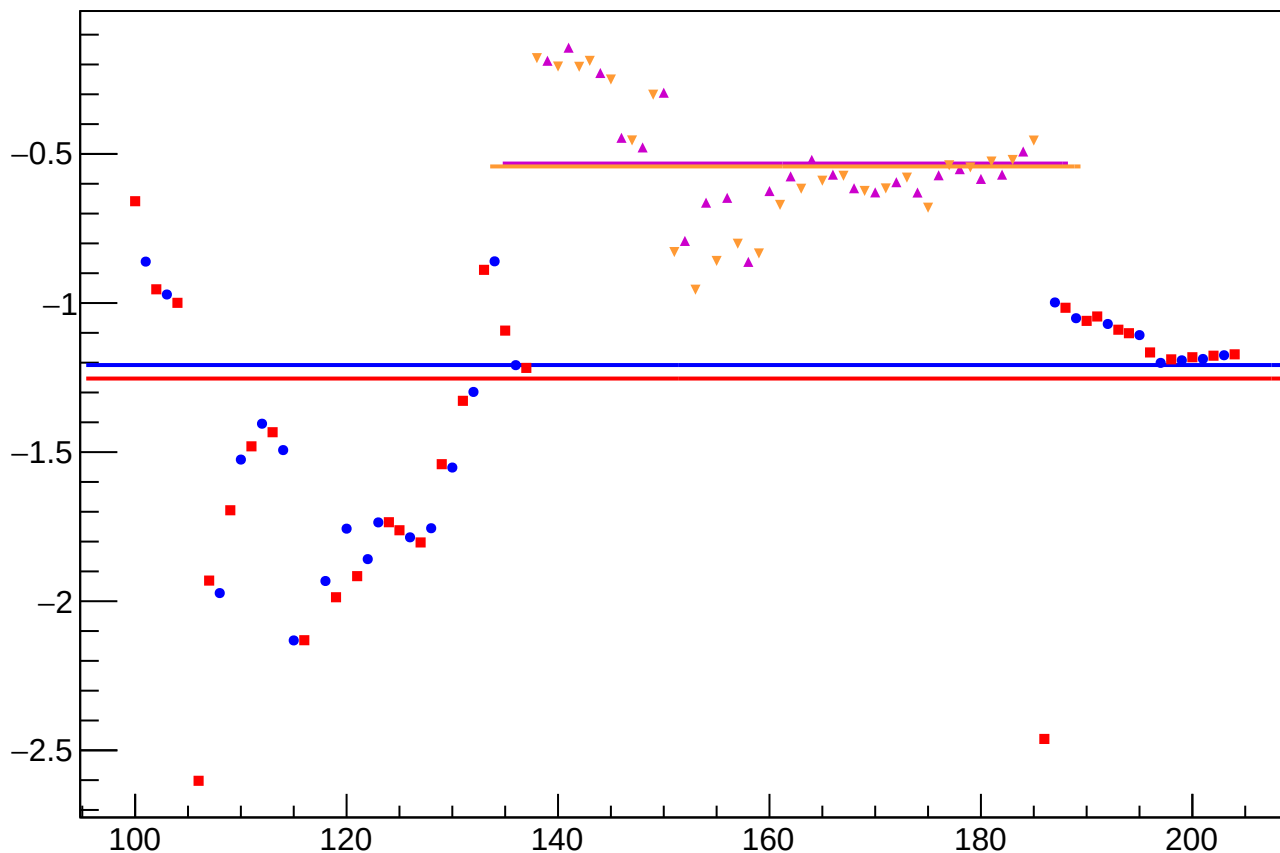
Right: 0.006+/-0.000 χ^2/NDF : 3839409.8/54

In: 0.006+/-0.000 χ^2/NDF : 2647359.8/47

Out: 0.006+/-0.000 χ^2/NDF : 2592931.6/54

All: 0.006+/-0.000 χ^2/NDF : 5242180.1/102

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.208 $\pm$ 0.000 χ^2/NDF : 26287723012.4/24

Left Out: -0.542 $\pm$ 0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.253 $\pm$ 0.000 χ^2/NDF : 78794003419.4/29

Left In: -0.532 $\pm$ 0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537 $\pm$ 0.000 χ^2/NDF : 78028833870.1/47

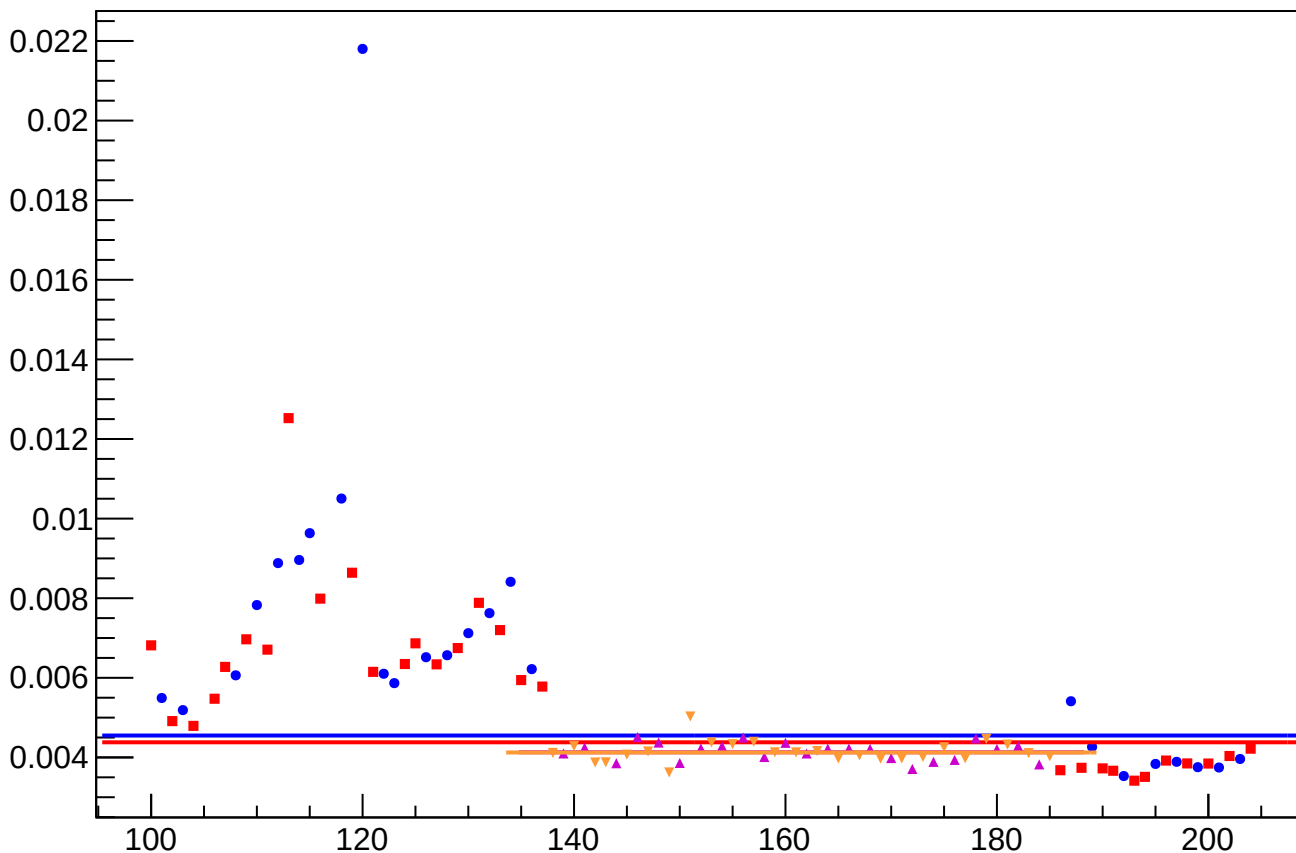
Right: -1.233 $\pm$ 0.000 χ^2/NDF : 105625051678.3/54

In: -0.759 $\pm$ 0.000 χ^2/NDF : 200276698538.6/47

Out: -0.811 $\pm$ 0.000 χ^2/NDF : 316178639691.1/54

All: -0.787 $\pm$ 0.000 χ^2/NDF : 518539119305.0

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1934538.3/24

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1828684.9/29

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

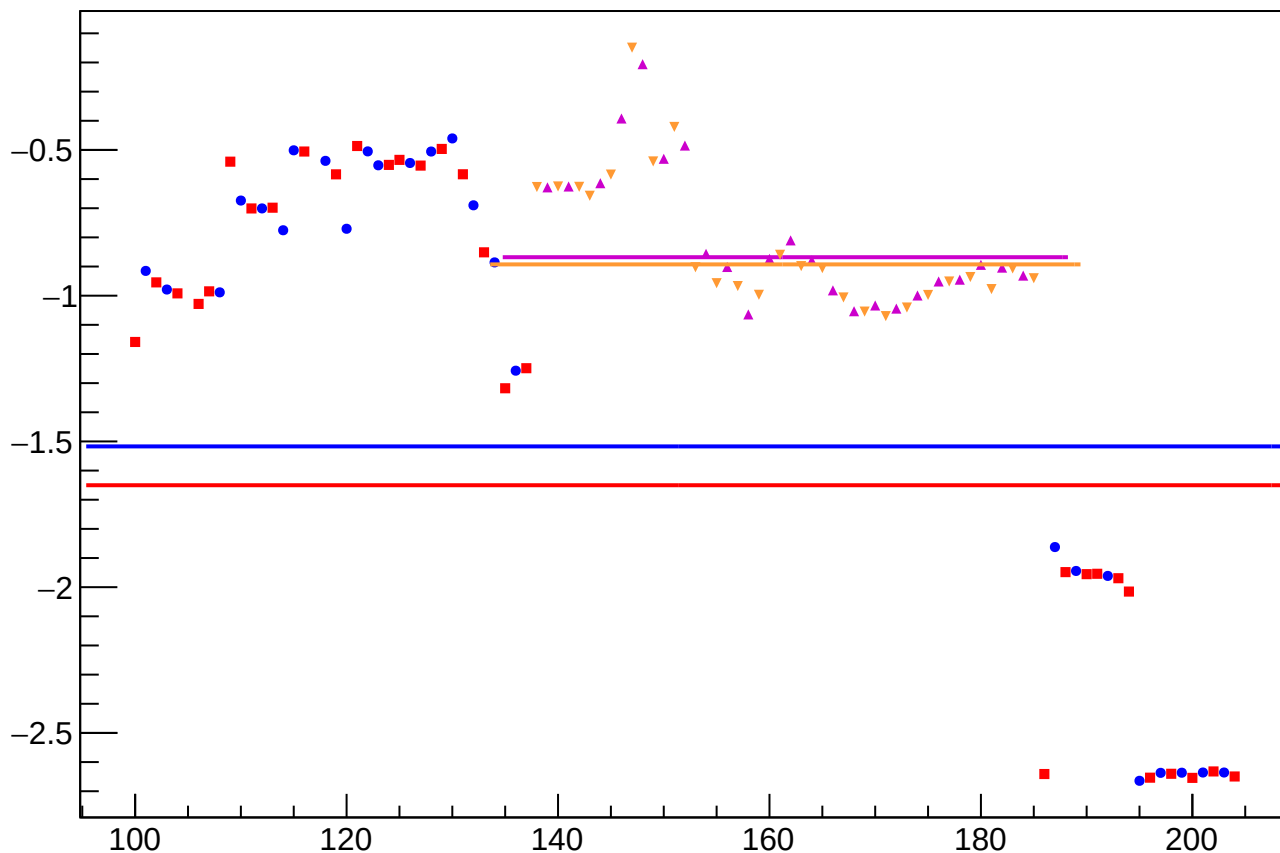
Right: 0.004+/-0.000 χ^2/NDF : 3778621.7/54

In: 0.004+/-0.000 χ^2/NDF :2138601.8/47

Out: 0.004+/-0.000 χ^2/NDF :1990722.9/54

All: 0.004+/-0.000 χ^2/NDF : 4132983.2/102

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.517+/-0.000

χ^2/NDF : 216190077231.0/24

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Right: -1.596+/-0.000

χ^2/NDF : 511520023681.5/54

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

In: -1.045+/-0.000

χ^2/NDF : 388010364575.6/47

Right Out: -1.650+/-0.000

χ^2/NDF : 290914927216.3/29

Out: -1.161+/-0.000

χ^2/NDF : 560246361161.8/54

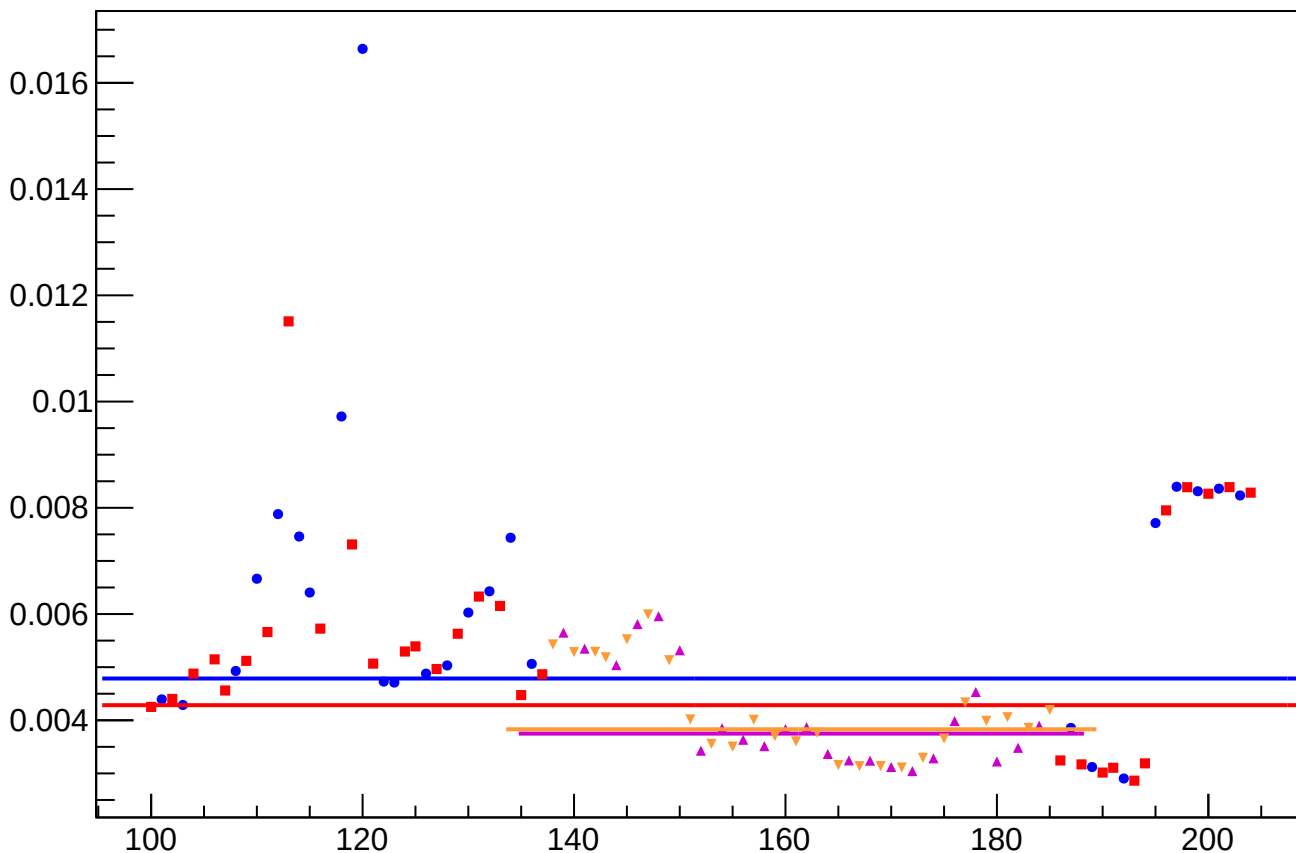
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.106+/-0.000

χ^2/NDF : 959229630613.7

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 3135994.4/24

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1179801.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 3392898.5/29

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1288490.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 2475792.1/47

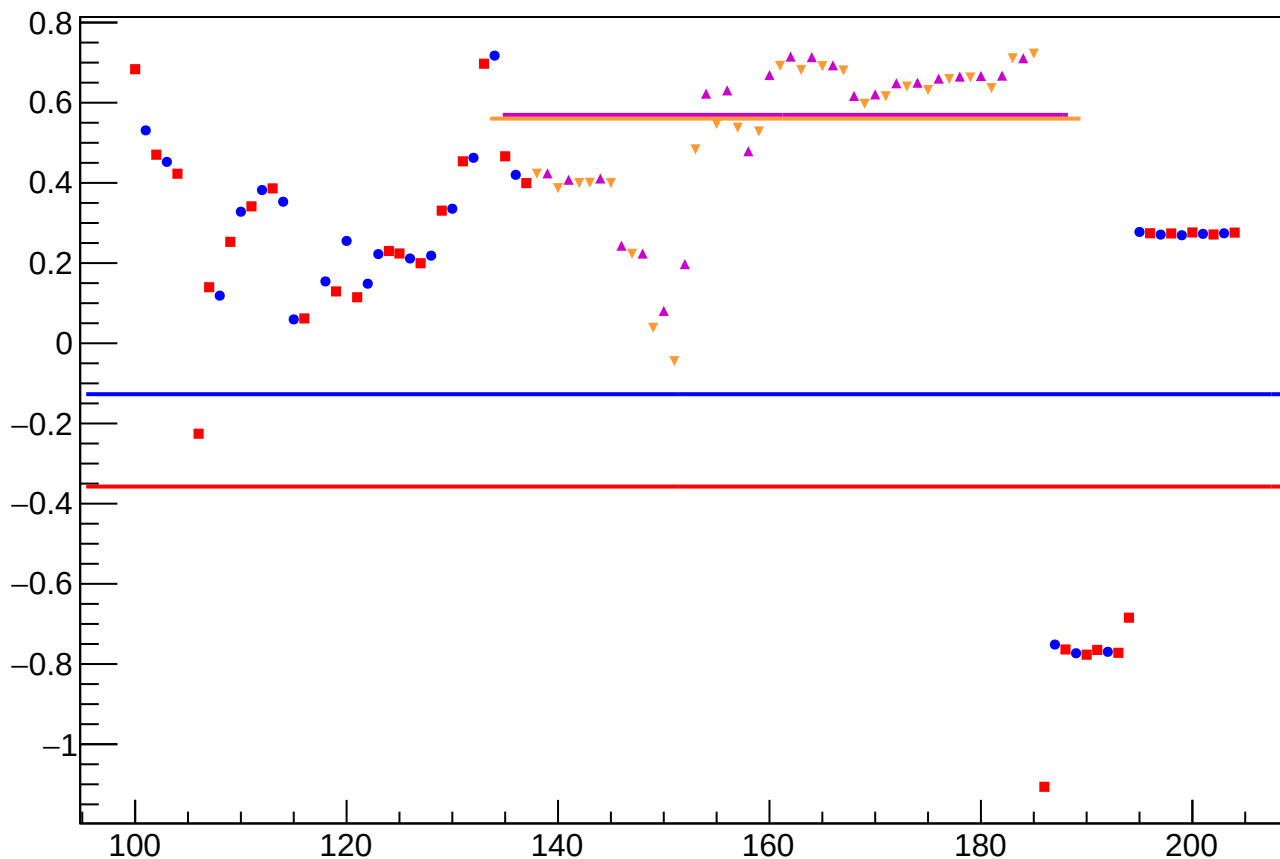
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 6654296.3/54

In: 0.004 $\pm$ 0.000 χ^2 /NDF:5078402.2/47

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:4736599.5/54

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 9817620.6/102

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.127+/-0.000 χ^2/NDF : 272161626705.3/24

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.357+/-0.000 χ^2/NDF : 438141224862.4/29

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

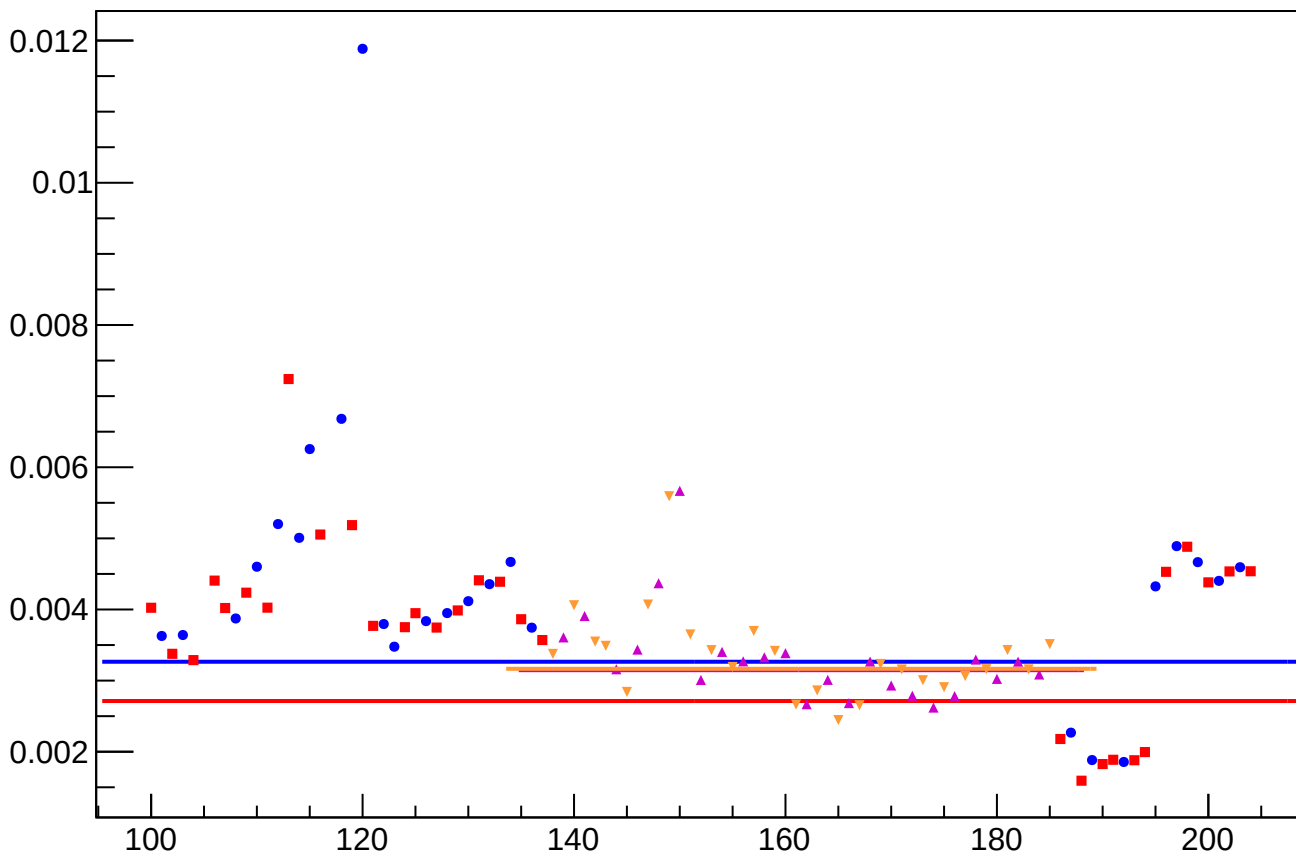
Right: -0.269+/-0.000 χ^2/NDF : 740175947782.6/54

In: 0.312+/-0.000 χ^2/NDF : 593436288460.2/47

Out: 0.123+/-0.000 χ^2/NDF : 1132428209973.0/54

All: 0.207+/-0.000 χ^2/NDF : 1774890774610.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2957545.7/24

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4147906.7/29

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 : 7448670.4/54

In: 0.003+/-0.000 χ^2/NDF : 3690203.6/47

Out: 0.003+/-0.000 χ^2/NDF : 5209036.3/54

All: 0.003+/-0.000 χ^2/NDF : 9057153.6/102

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.008 $\pm$ 0.000 χ^2 /NDF: 5772562893.7/24

Left Out: -2.182 $\pm$ 0.000 χ^2 /NDF: 4008829567.0/24

Right Out: -0.001 $\pm$ 0.000 χ^2 /NDF: 6901496627.0/29

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

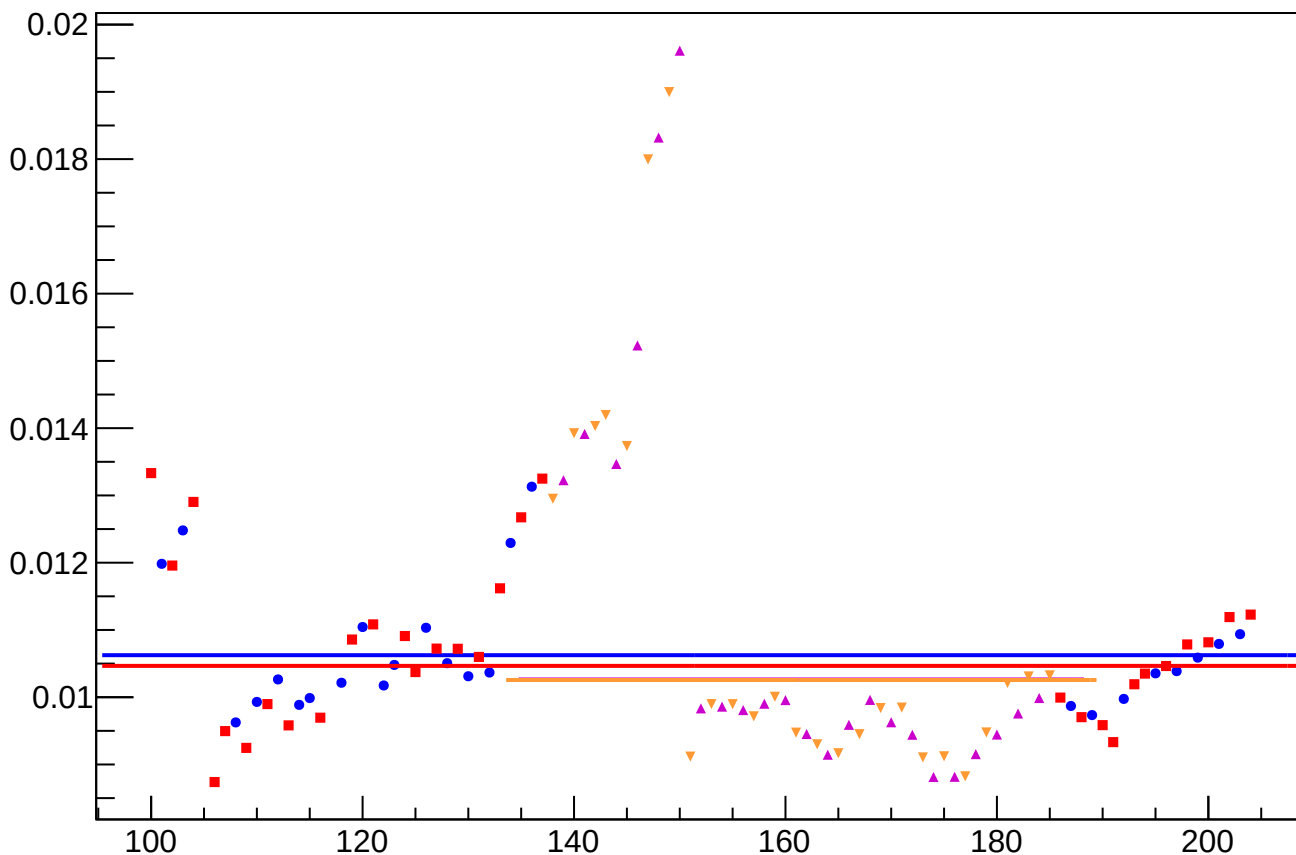
Right: -0.004 $\pm$ 0.000 χ^2 /NDF: 12676460424.3/54

In: -1.303 $\pm$ 0.000 χ^2 /NDF: 311338695703.6/47

Out: -1.237 $\pm$ 0.000 χ^2 /NDF: 356428251289.5/54

All: -1.268 $\pm$ 0.000 χ^2 /NDF: 668369179294.7

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 150588.2/24

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 221368.2/29

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

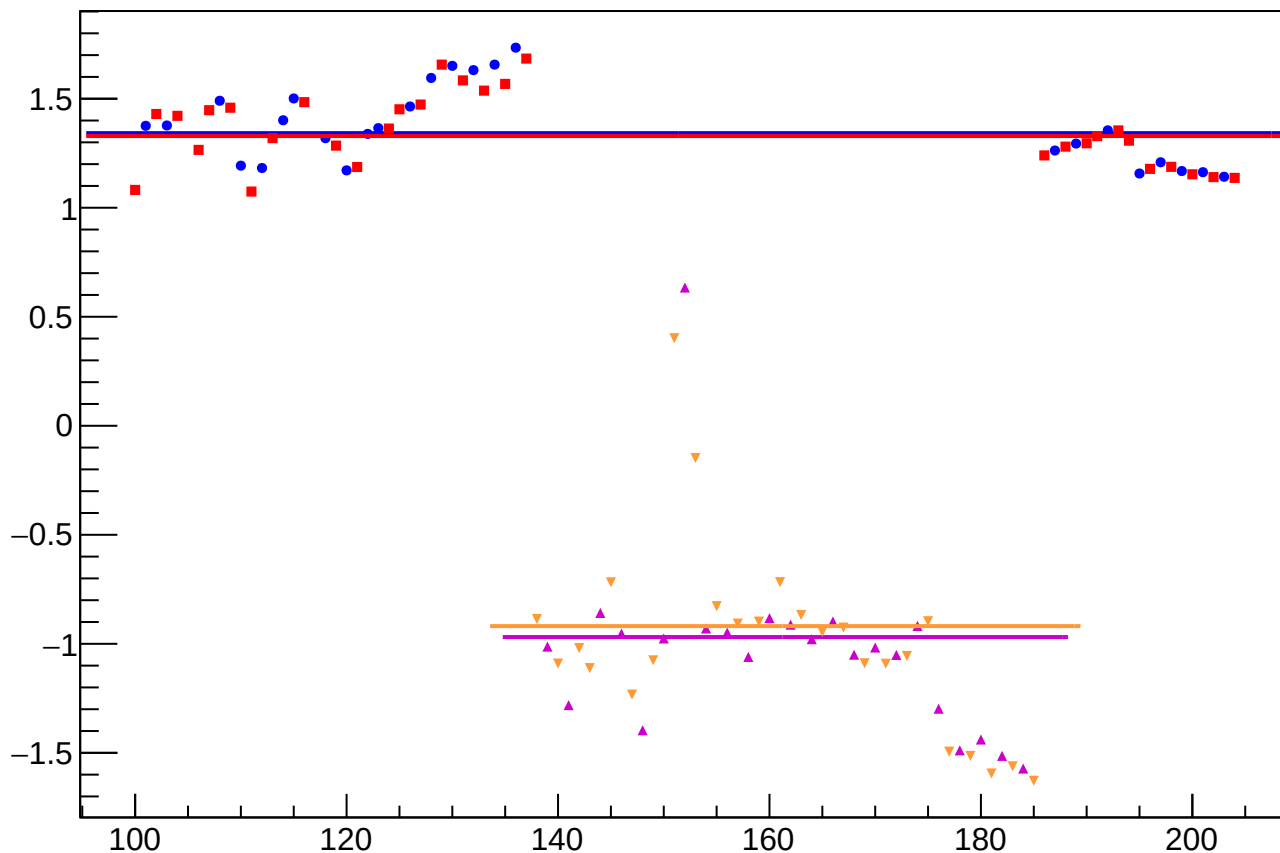
Right: 0.011+/-0.000 χ^2/NDF : 374909.4/54

In: 0.010+/-0.000 χ^2/NDF :1507429.2/47

Out: 0.010+/-0.000 χ^2/NDF :1498388.2/54

All: 0.010+/-0.000 χ^2/NDF : 3006944.2/102

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.342 $\pm$ 0.000 χ^2 /NDF: 6672892780.2/24

Left Out: -0.919 $\pm$ 0.000 χ^2 /NDF: 55622252895.8/24

Right Out: 1.329 $\pm$ 0.000 χ^2 /NDF: 5408863189.6/29

Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

Left: -0.943 $\pm$ 0.000 χ^2 /NDF: 110825900215.1/47

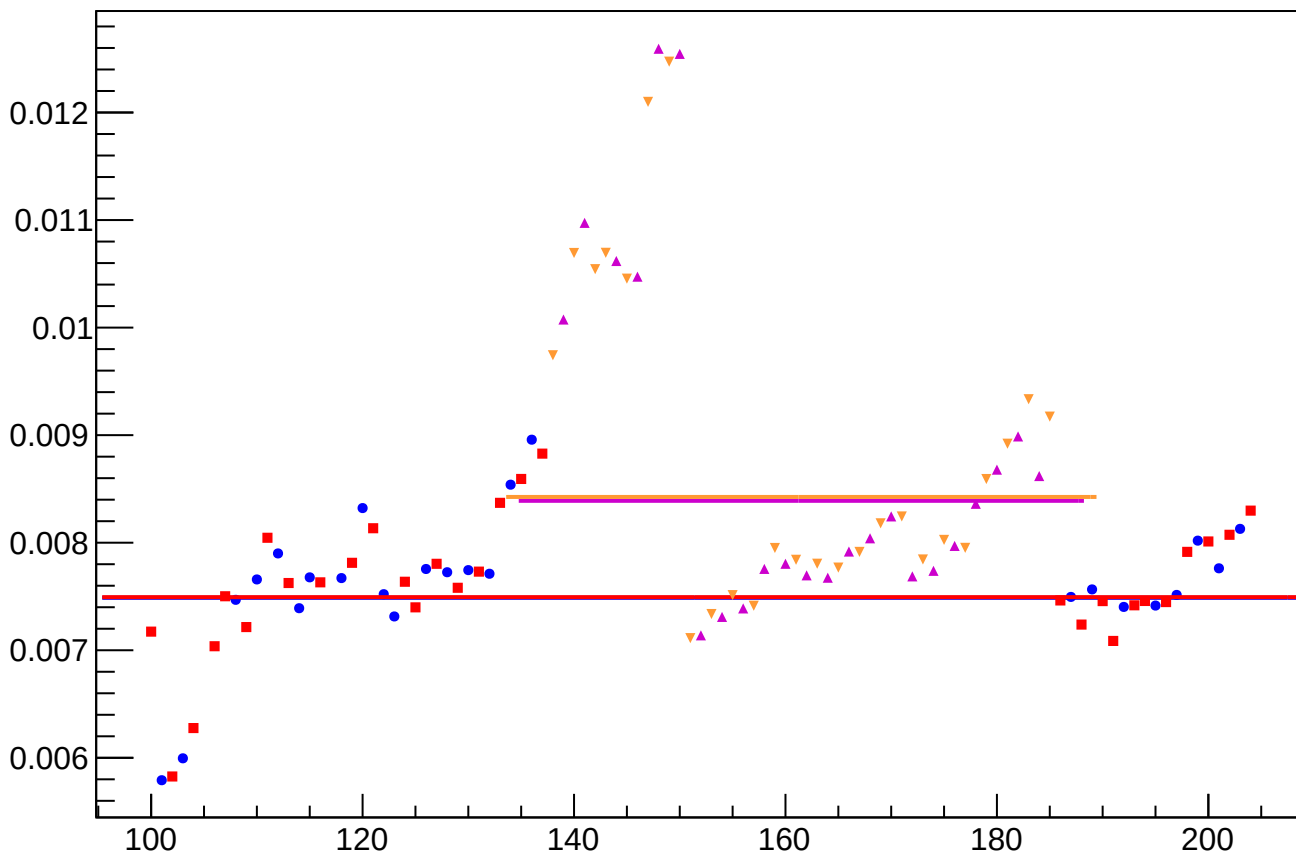
Right: 1.335 $\pm$ 0.000 χ^2 /NDF: 12102331184.6/54

In: 0.123 $\pm$ 0.000 χ^2 /NDF: 666037824450.9/47

Out: 0.200 $\pm$ 0.000 χ^2 /NDF: 695302468517.1/54

All: 0.164 $\pm$ 0.000 χ^2 /NDF: 1362756523551.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 253310.3/24

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 210752.4/29

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

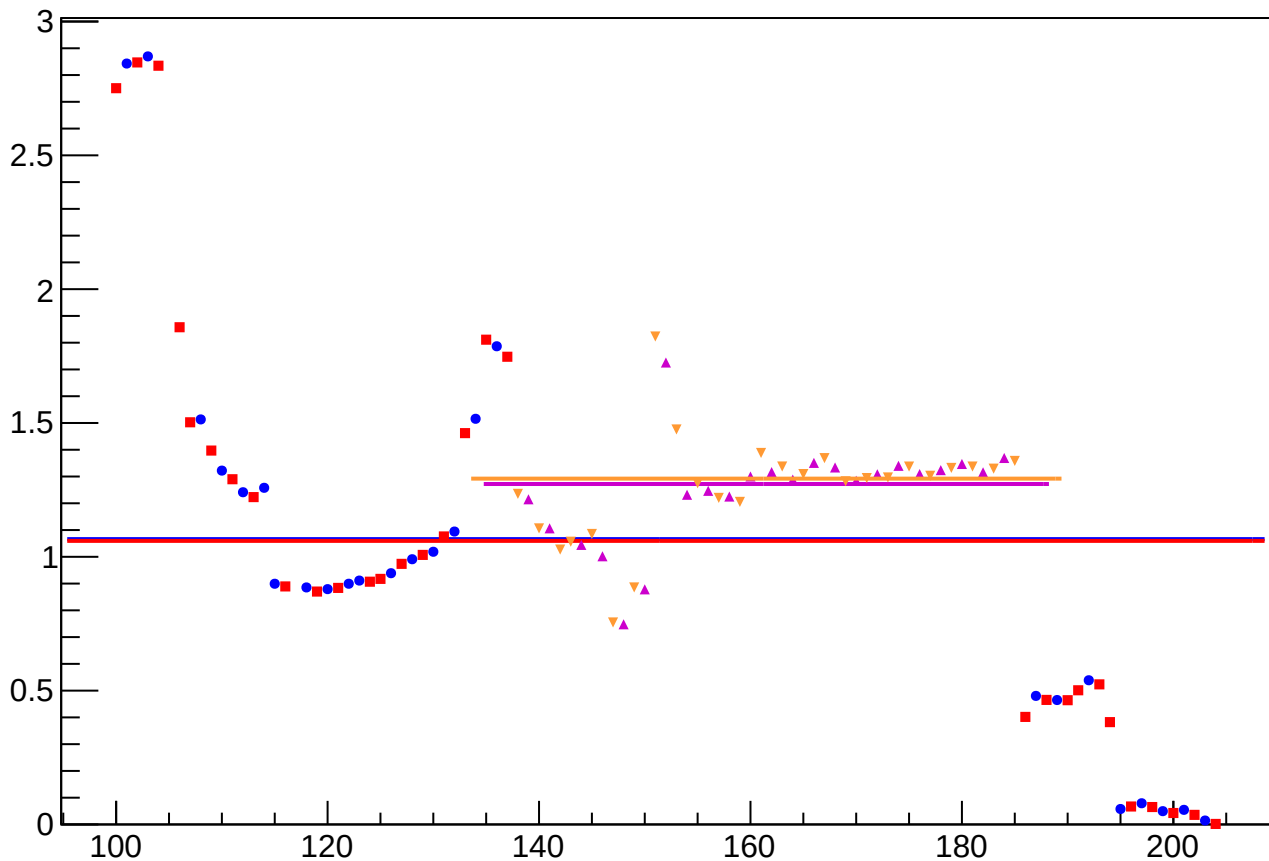
Right: 0.007+/-0.000 χ^2/NDF : 464070.9/54

In: 0.008+/-0.000 χ^2/NDF : 1277236.0/47

Out: 0.008+/-0.000 χ^2/NDF : 1221109.1/54

All: 0.008+/-0.000 χ^2/NDF : 2498346.7/102

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.066 $\pm$ 0.000 χ^2 /NDF: 108048292591.3/24

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.060 $\pm$ 0.000 χ^2 /NDF: 110130522395.7/29

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

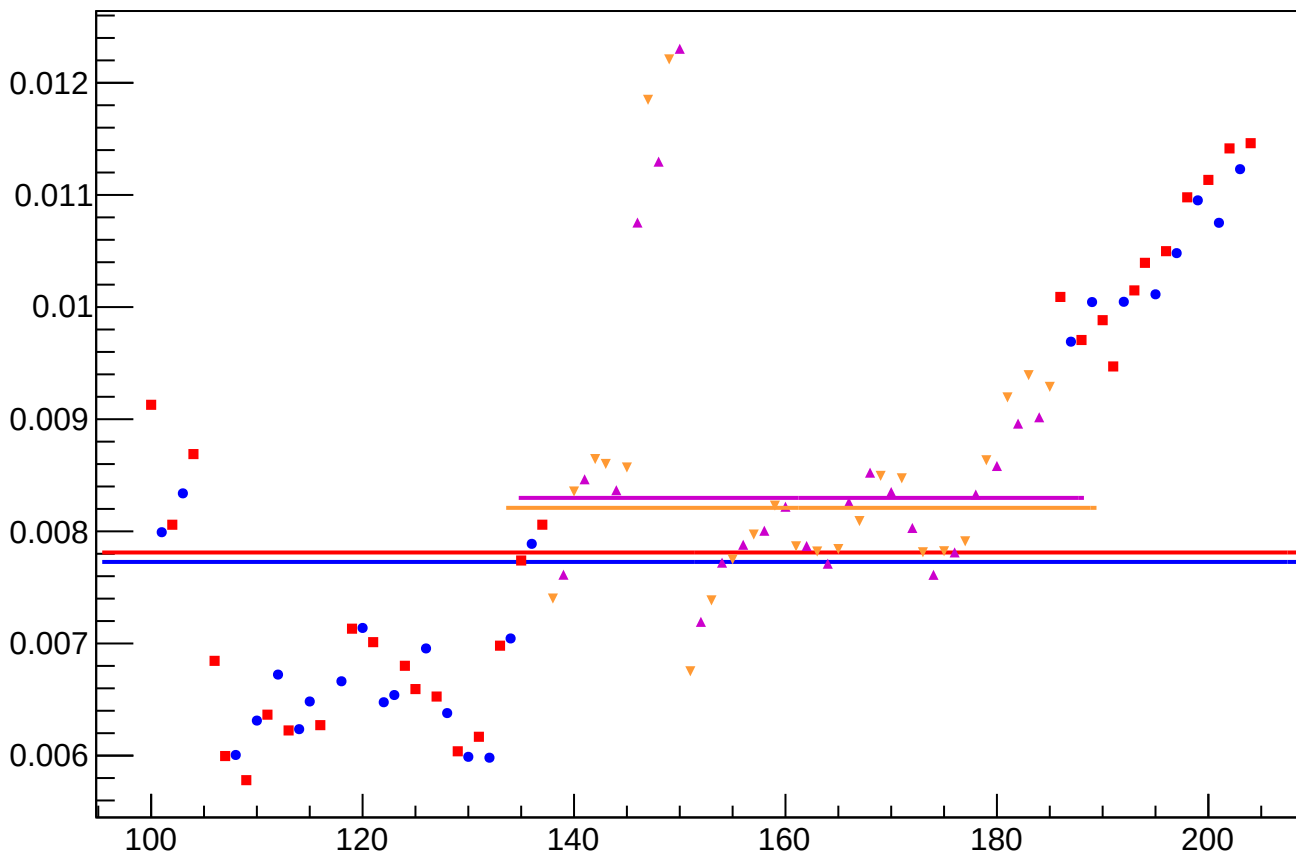
Right: 1.063 $\pm$ 0.000 χ^2 /NDF: 218183278241.0/54

In: 1.181 $\pm$ 0.000 χ^2 /NDF: 120197731318.2/47

Out: 1.186 $\pm$ 0.000 χ^2 /NDF: 125904513588.5/54

All: 1.184 $\pm$ 0.000 χ^2 /NDF: 246109292065.2

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1199542.6/24

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1534377.9/29

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

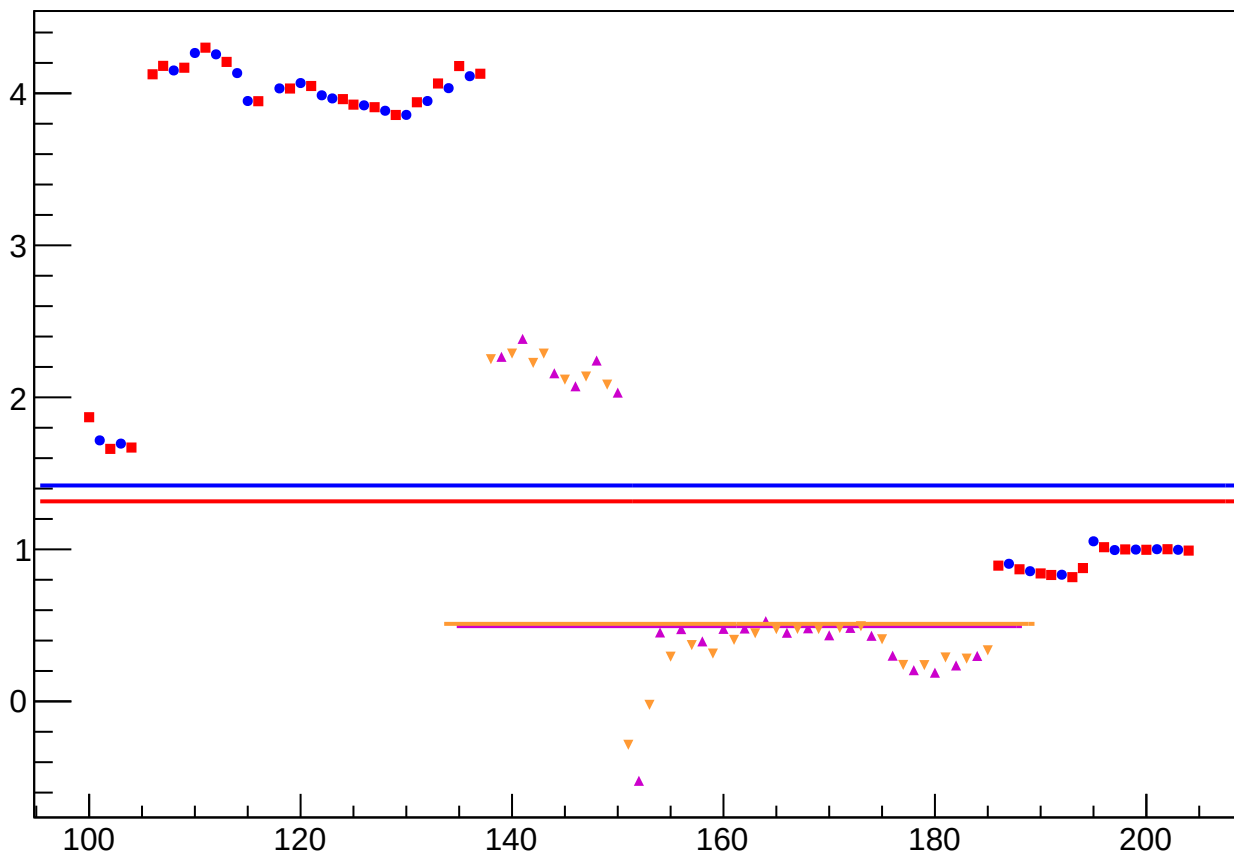
Right: 0.008+/-0.000 χ^2/NDF : 2735381.9/54

In: 0.008+/-0.000 χ^2/NDF : 1731992.7/47

Out: 0.008+/-0.000 χ^2/NDF : 2051163.3/54

All: 0.008+/-0.000 χ^2/NDF : 3783284.3/102

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.420+/-0.000 χ^2/NDF : 1429224776869.6/24

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.316+/-0.000 χ^2/NDF : 1666303792989.2/29

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

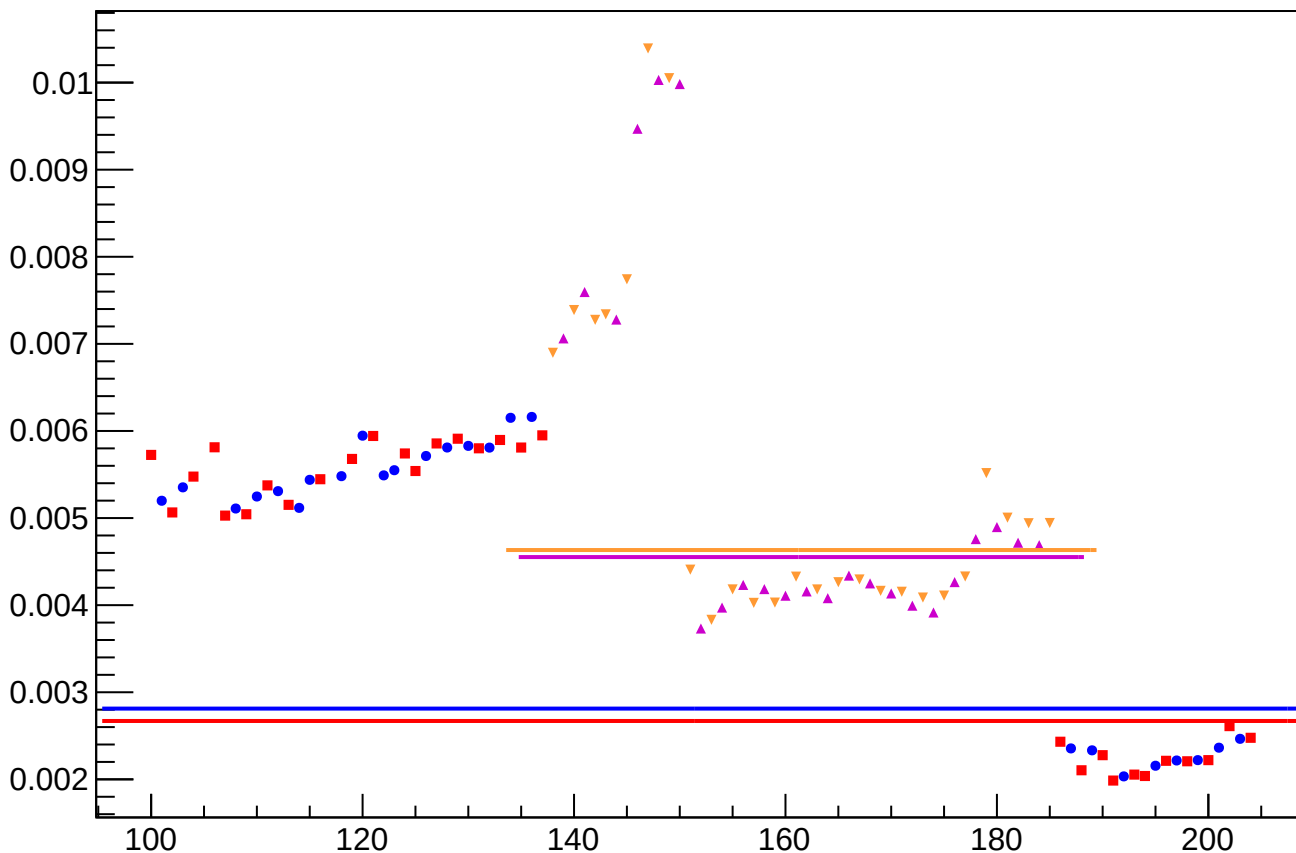
Right: 1.361+/-0.000 χ^2/NDF : 3103129240959.6/54

In: 1.069+/-0.000 χ^2/NDF : 2100277486346.9/47

Out: 1.052+/-0.000 χ^2/NDF : 2280486222967.3/54

All: 1.060+/-0.000 χ^2/NDF : 4381054237688.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 4031951.9/24

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2114007.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 4419528.1/29

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2237666.9/22

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4356682.7/47

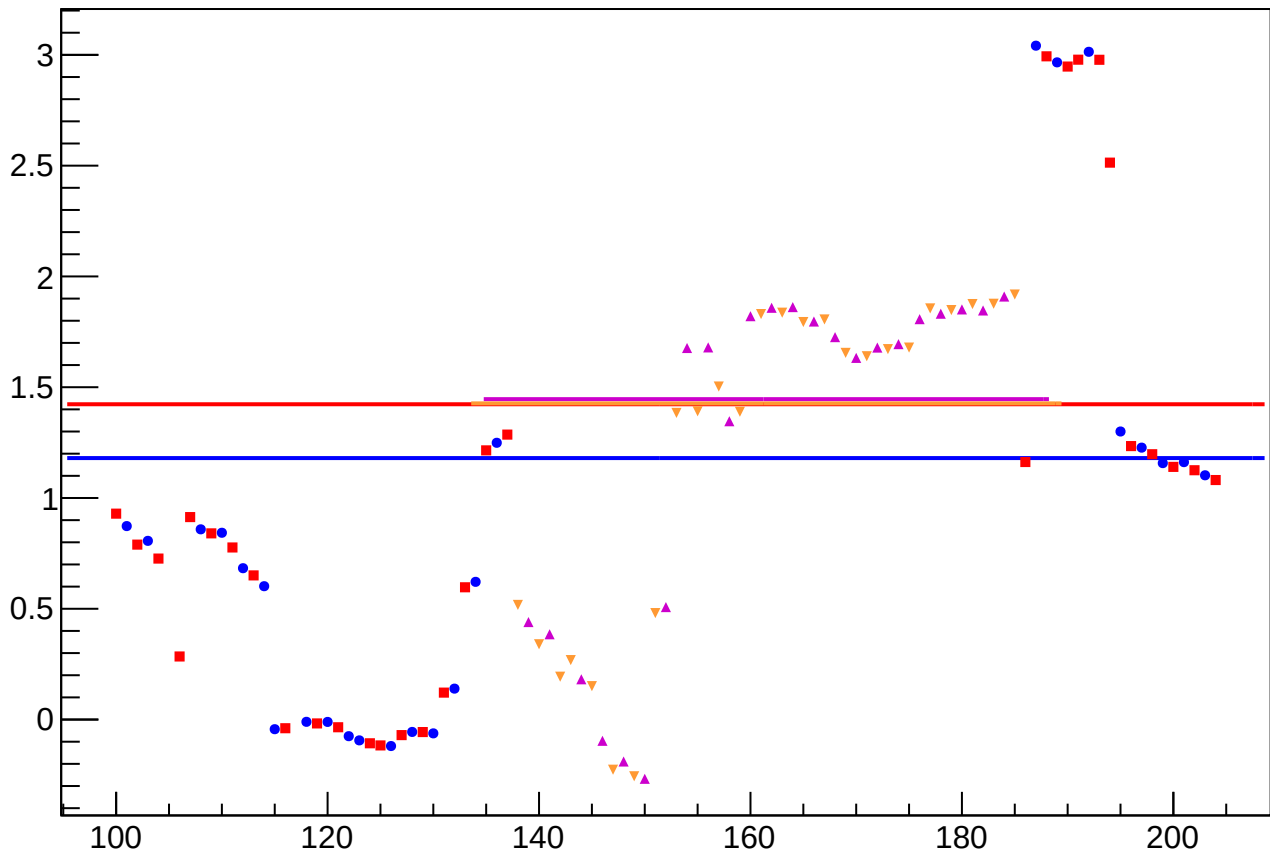
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 8479660.3/54

In: 0.003 $\pm$ 0.000 χ^2 /NDF:9113560.3/47

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:10559908.1/54

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 19729928.4/102

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.180+/-0.000 χ^2/NDF : 72635127084.5/24

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 1.423+/-0.000 χ^2/NDF : 99371266086.4/29

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

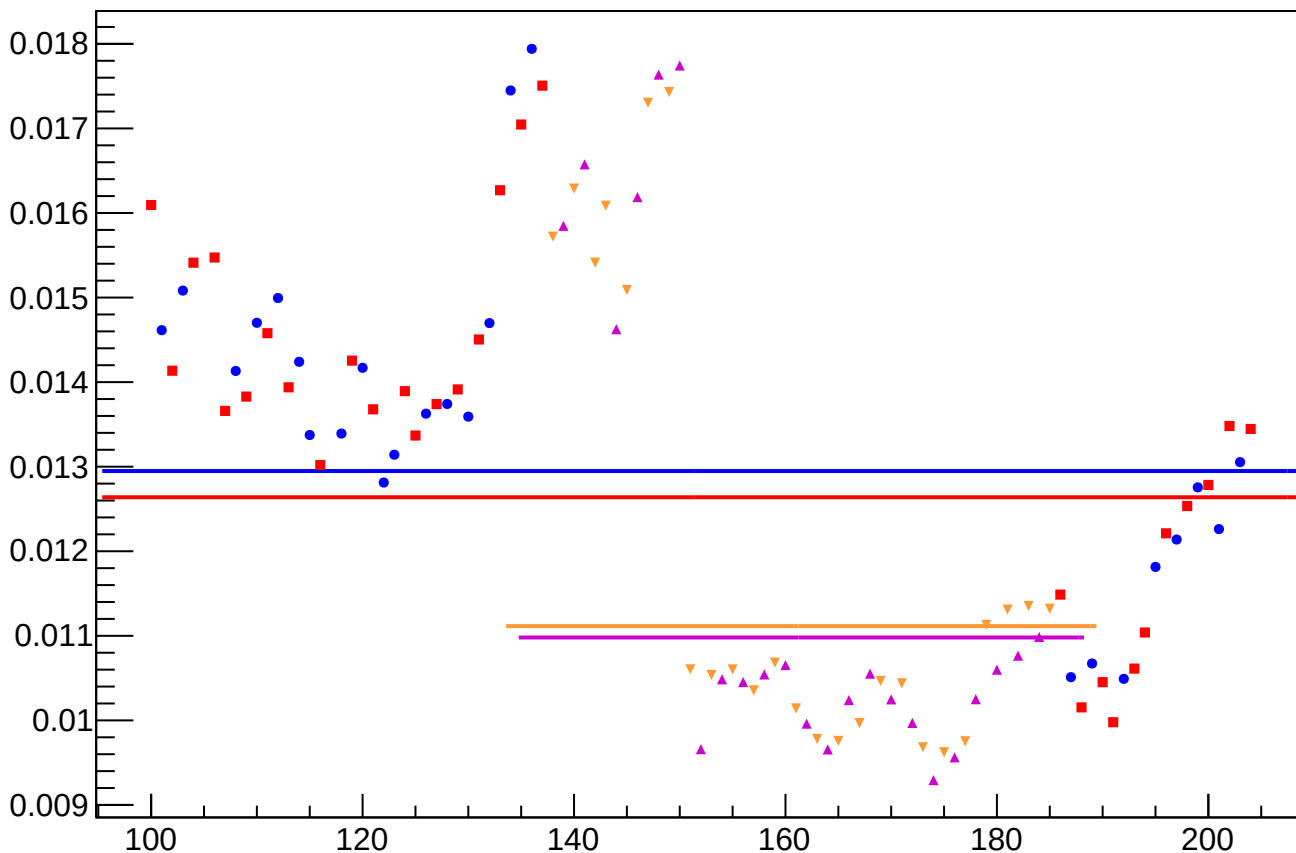
Right: 1.313+/-0.000 χ^2/NDF : 174297368948.6/54

In: 1.356+/-0.000 χ^2/NDF : 129695650000.0/47

Out: 1.426+/-0.000 χ^2/NDF : 149362875688.0/54

All: 1.392+/-0.000 χ^2/NDF : 279590992753.8

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 434794.4/24

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1227493.2/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 558410.8/29

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1264827.0/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2494847.1/47

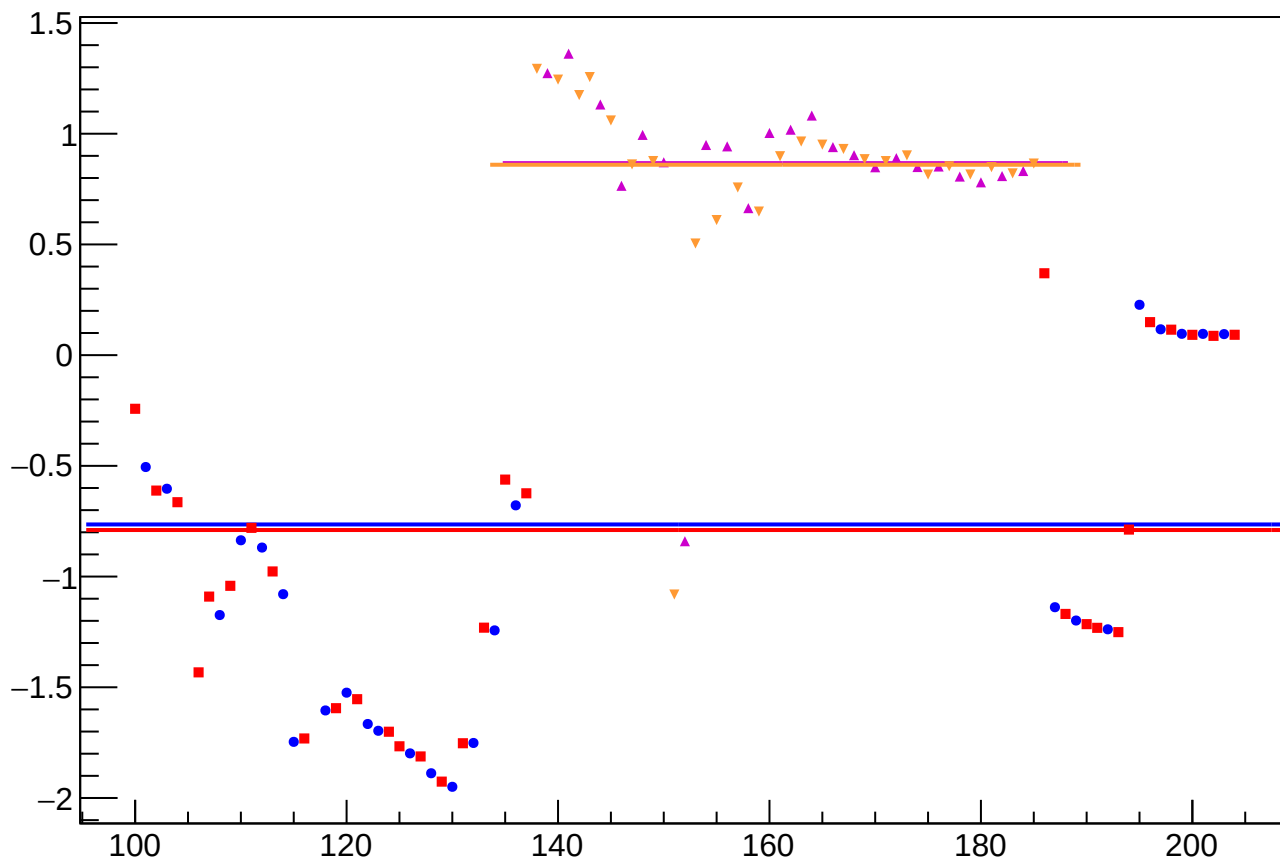
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 1000673.2/54

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2061975.9/47

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2034411.5/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4096698.8/102

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.765+/-0.000 χ^2/NDF : 151049601473.1/24

Left Out: 0.860+/-0.000 χ^2/NDF : 126335891175.4/24

Right Out: -0.790+/-0.000 χ^2/NDF : 143593246520.3/29

Left In: 0.867+/-0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

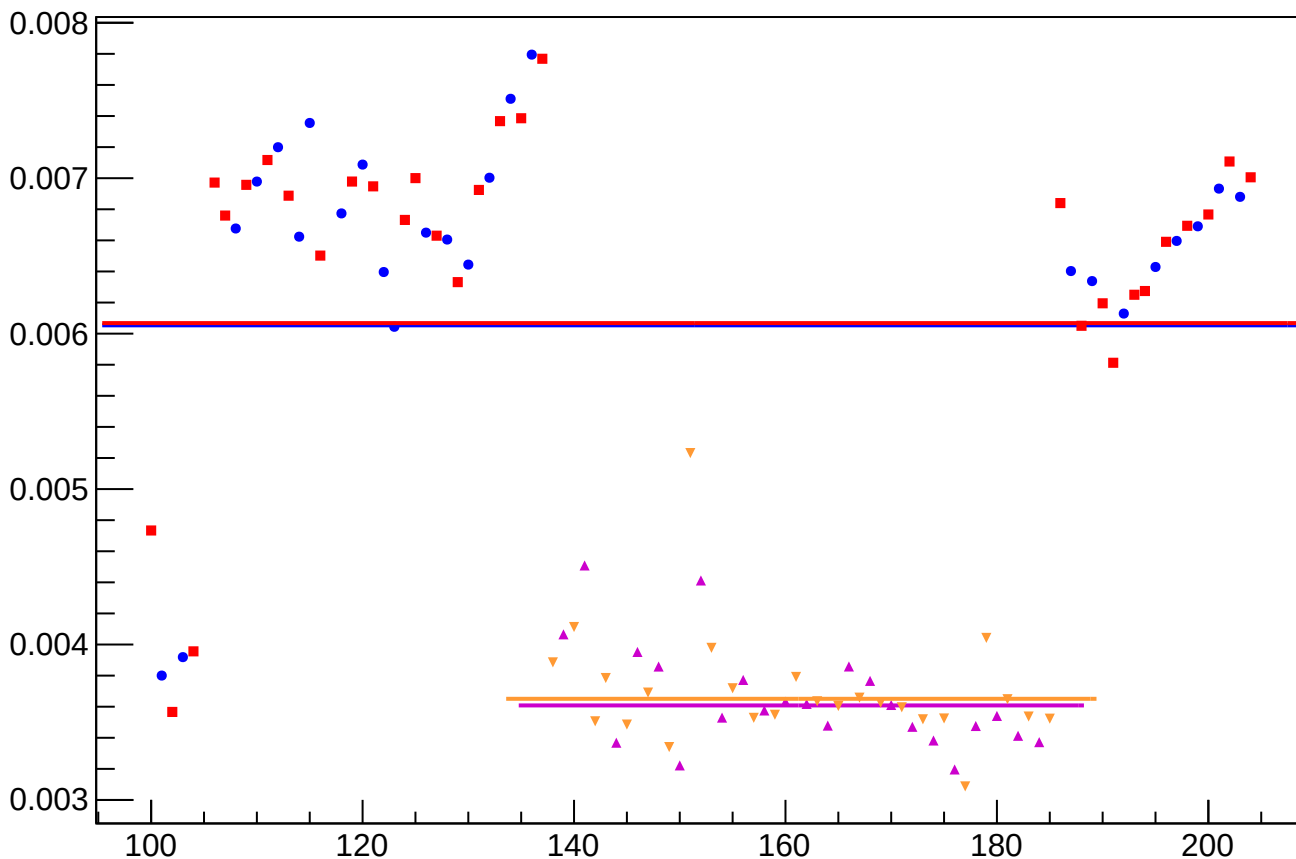
Right: -0.778+/-0.000 χ^2/NDF : 294746322199.7/54

In: 0.538+/-0.000 χ^2/NDF : 945486756468.0/47

Out: 0.499+/-0.000 χ^2/NDF : 1016569373252.7/54

All: 0.518+/-0.000 χ^2/NDF : 1963283175297.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 958241.2/24

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1069547.0/29

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

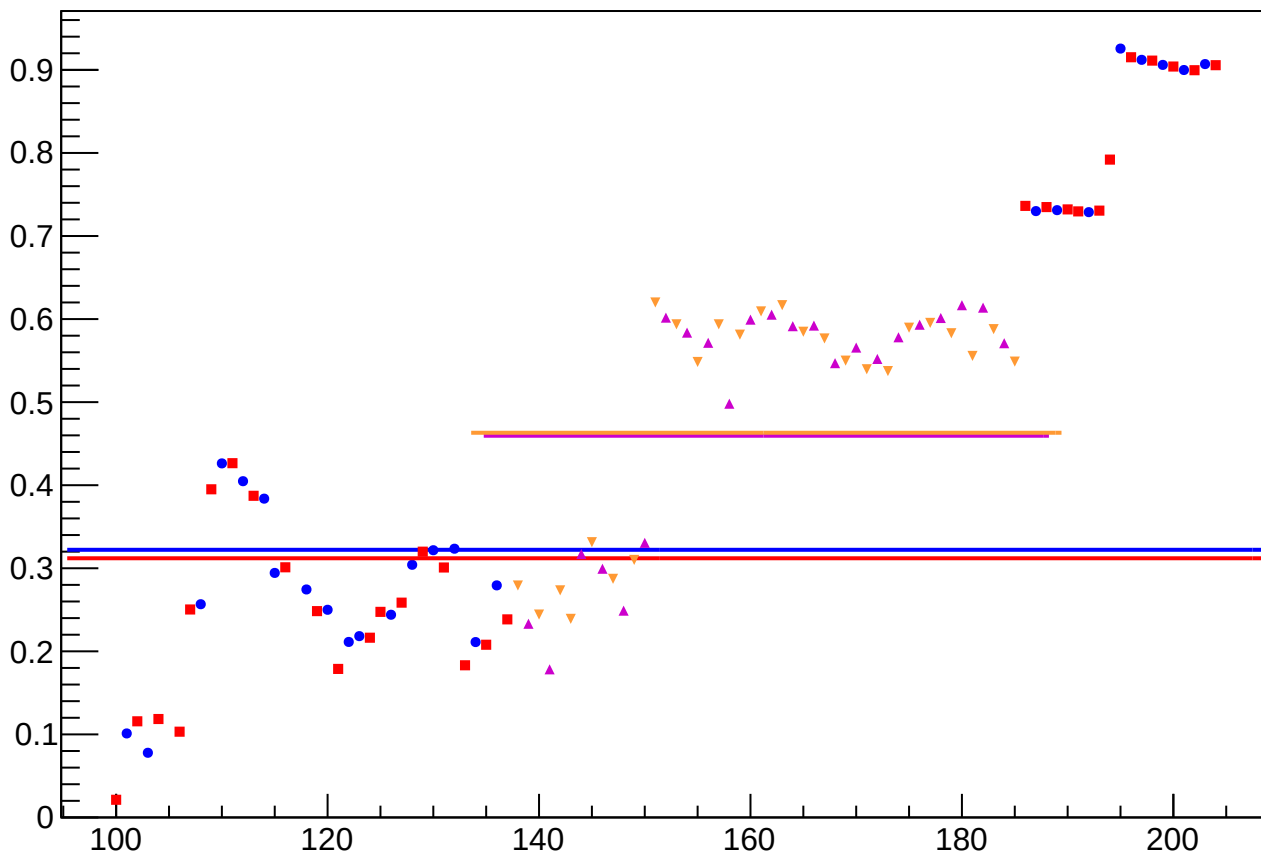
Right: 0.006+/-0.000 χ^2/NDF : 2027855.3/54

In: 0.004+/-0.000 χ^2/NDF :4093752.4/47

Out: 0.004+/-0.000 χ^2/NDF :4512289.8/54

All: 0.004+/-0.000 χ^2/NDF : 8615797.8/102

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.322 $\pm$ 0.000 χ^2 /NDF: 120763909218.8/24

Left Out: 0.463 $\pm$ 0.000 χ^2 /NDF: 102506270538.7/24

Right Out: 0.312 $\pm$ 0.000 χ^2 /NDF: 147144126456.9/29

Left In: 0.460 $\pm$ 0.000 χ^2 /NDF: 104559088628.4/22

Left: 0.461 $\pm$ 0.000 χ^2 /NDF: 207093695005.5/47

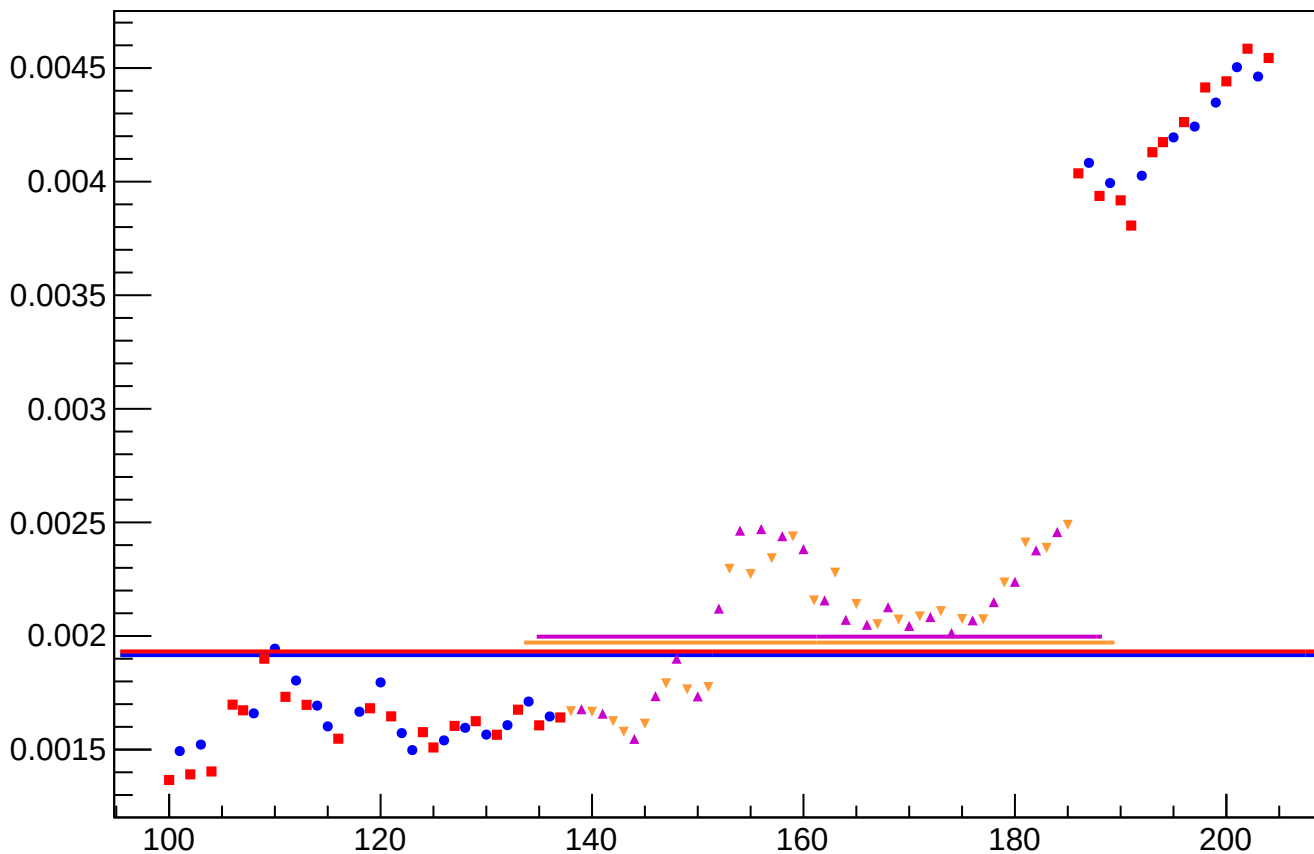
Right: 0.317 $\pm$ 0.000 χ^2 /NDF: 268059778124.2/54

In: 0.405 $\pm$ 0.000 χ^2 /NDF: 256607505477.4/47

Out: 0.402 $\pm$ 0.000 χ^2 /NDF: 292033760672.1/54

All: 0.404 $\pm$ 0.000 χ^2 /NDF: 548679372501.1

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3794834.2/24

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4883592.3/29

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

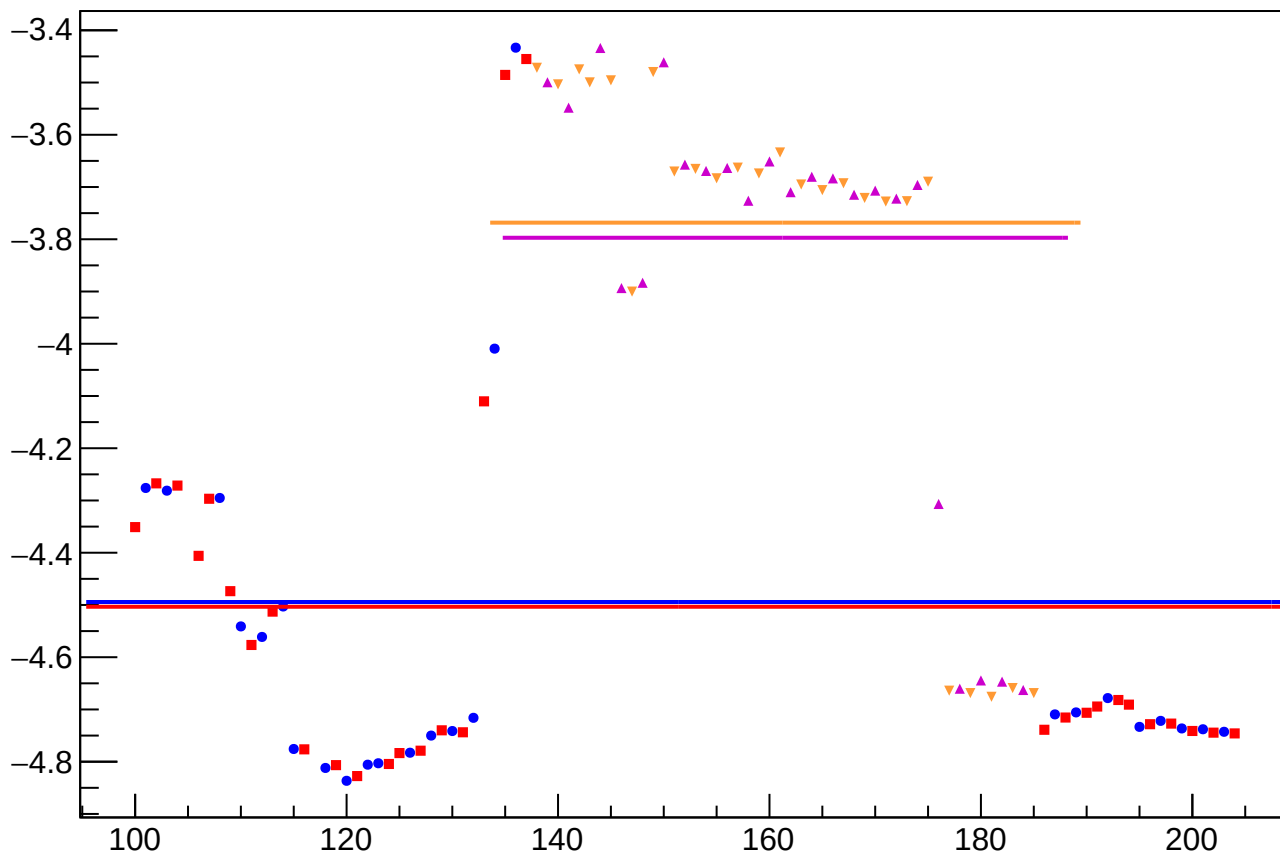
Right: 0.002+/-0.000 χ^2/NDF : 8679192.0/54

In: 0.002+/-0.000 χ^2/NDF : 4483198.9/47

Out: 0.002+/-0.000 χ^2/NDF : 5619483.9/54

All: 0.002+/-0.000 χ^2/NDF : 10103371.5/102

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.494+/-0.000 χ^2/NDF : 425736352602.2/24

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.503+/-0.000 χ^2/NDF : 365836629029.0/29

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

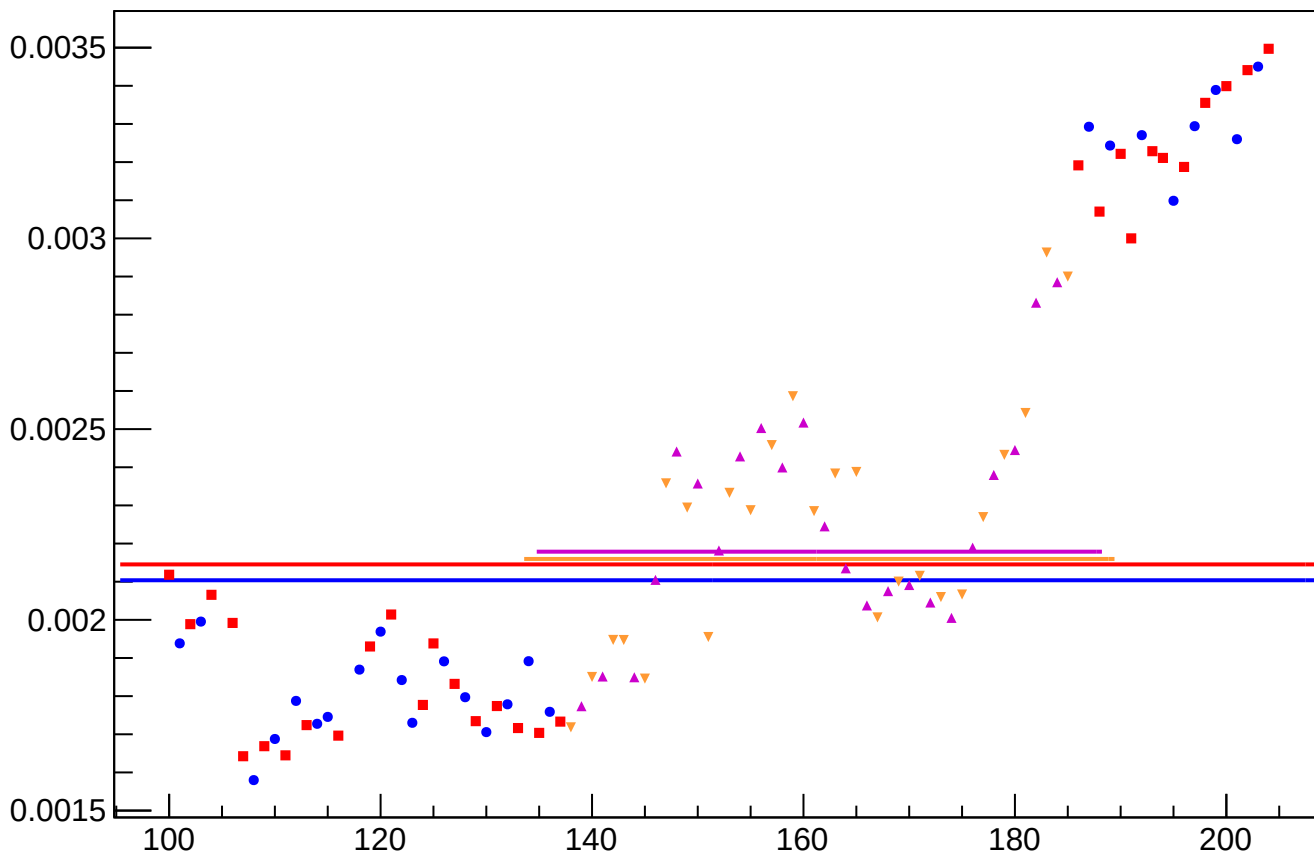
Right: -4.499+/-0.000 χ^2/NDF : 791681543170.9/54

In: -4.085+/-0.000 χ^2/NDF : 1583571662063.9/47

Out: -4.079+/-0.000 χ^2/NDF : 1752712461966.7/54

All: -4.082+/-0.000 χ^2/NDF : 3336421198520

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 1825836.9/24

Left Out: 0.002+/-0.000

χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000

χ^2/NDF : 2262951.8/29

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 : 4093338.7/54

In: 0.002+/-0.000

χ^2/NDF :2305586.8/47

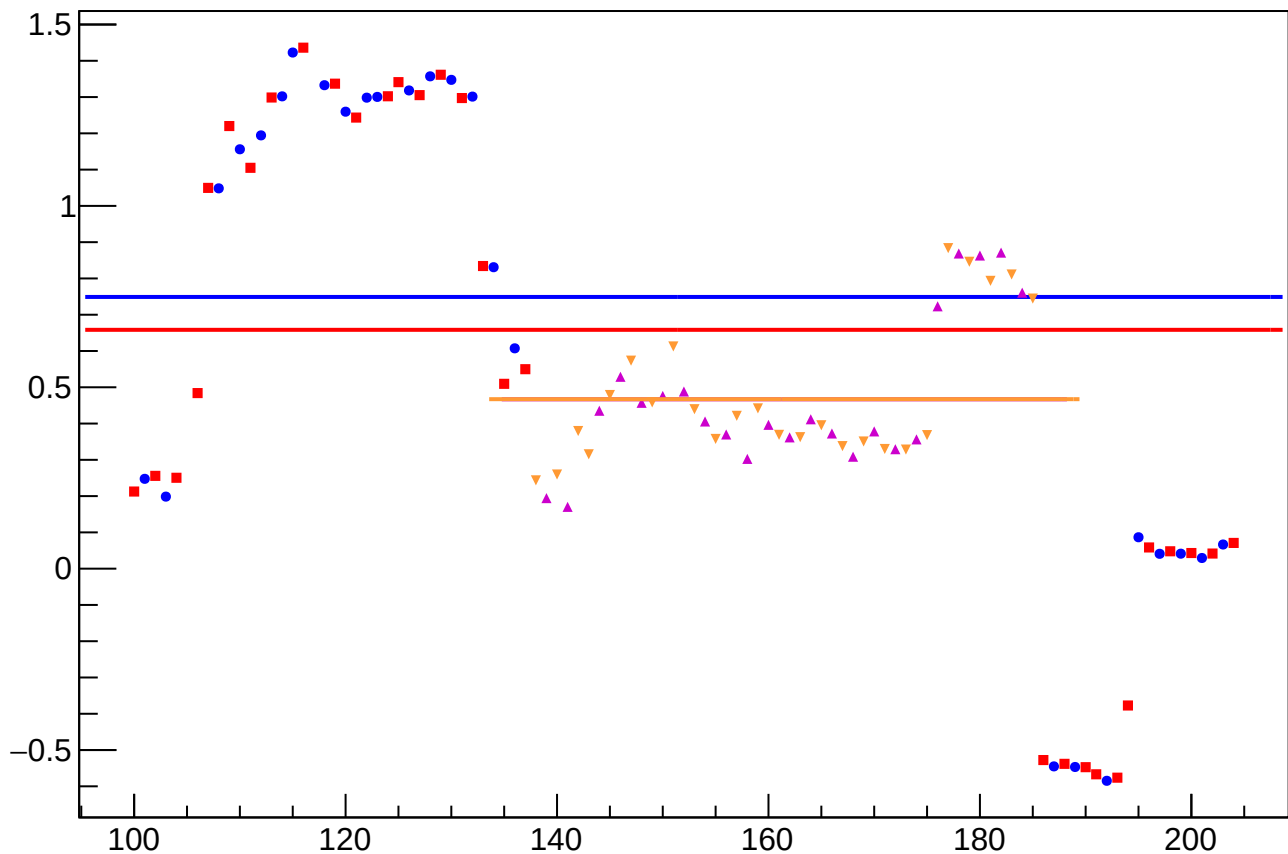
Out: 0.002+/-0.000

χ^2/NDF :2811441.3/54

All: 0.002+/-0.000

χ^2/NDF : 5117243.8/102

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.749 $\pm$ 0.000 χ^2 /NDF: 70439837034.2/24

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.658 $\pm$ 0.000 χ^2 /NDF: 93688020264.1/29

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

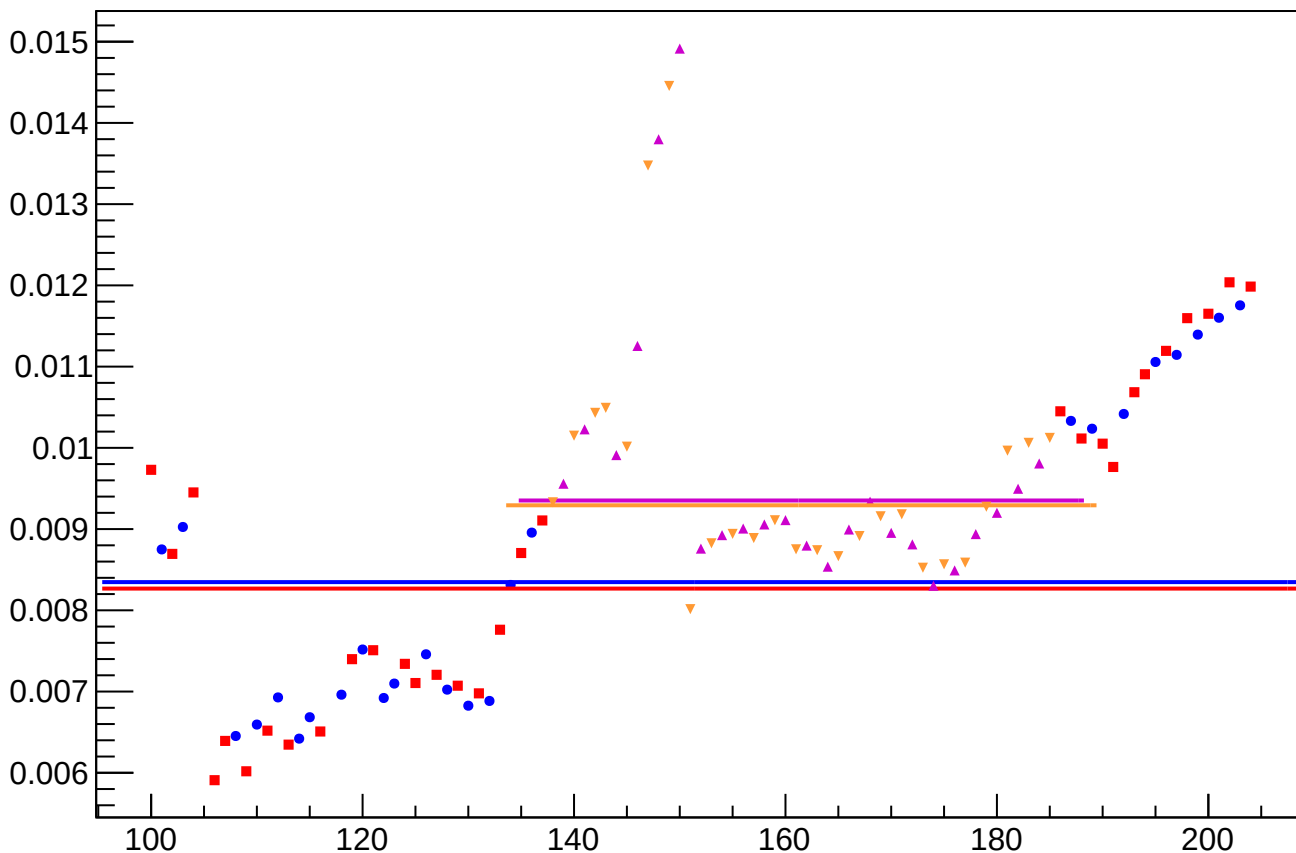
Right: 0.700 $\pm$ 0.000 χ^2 /NDF: 164868179588.9/54

In: 0.597 $\pm$ 0.000 χ^2 /NDF: 85624834459.8/47

Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 104742839422.9/54

All: 0.577 $\pm$ 0.000 χ^2 /NDF: 190636192525.3

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1106836.6/24

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:528279.5/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 1541049.4/29

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:557555.2/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 1086539.3/47

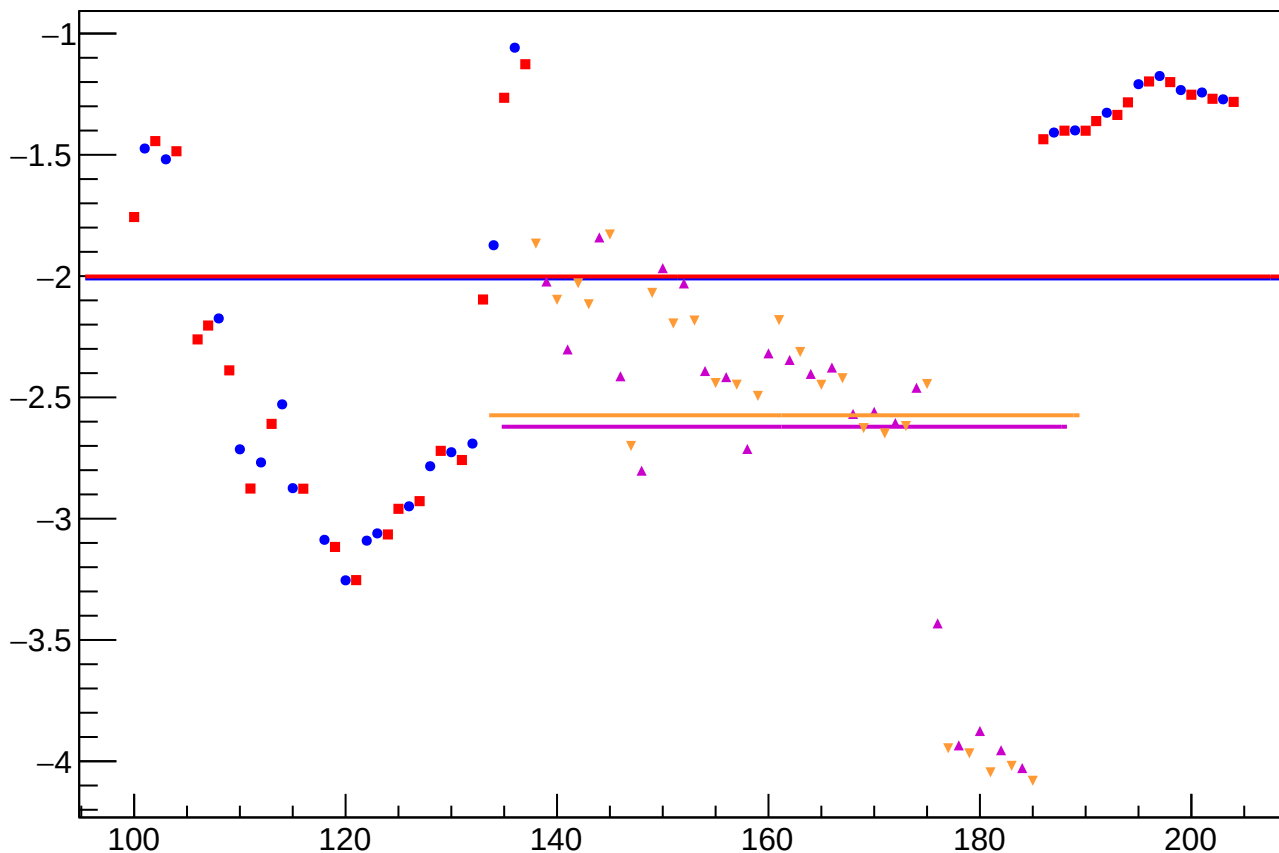
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 2649029.1/54

In: 0.009 $\pm$ 0.000 χ^2 /NDF:1845623.5/47

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2281878.0/54

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4130661.7/102

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.010+/-0.000

χ^2/NDF : 117113307342.4/24

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

Right: -2.005+/-0.000

χ^2/NDF : 234553488547.1/54

Right Out: -2.002+/-0.000

χ^2/NDF : 117433412370.0/29

In: -2.333+/-0.000

χ^2/NDF : 237413398002.2/47

Out: -2.296+/-0.000

χ^2/NDF : 254665994844.8/54

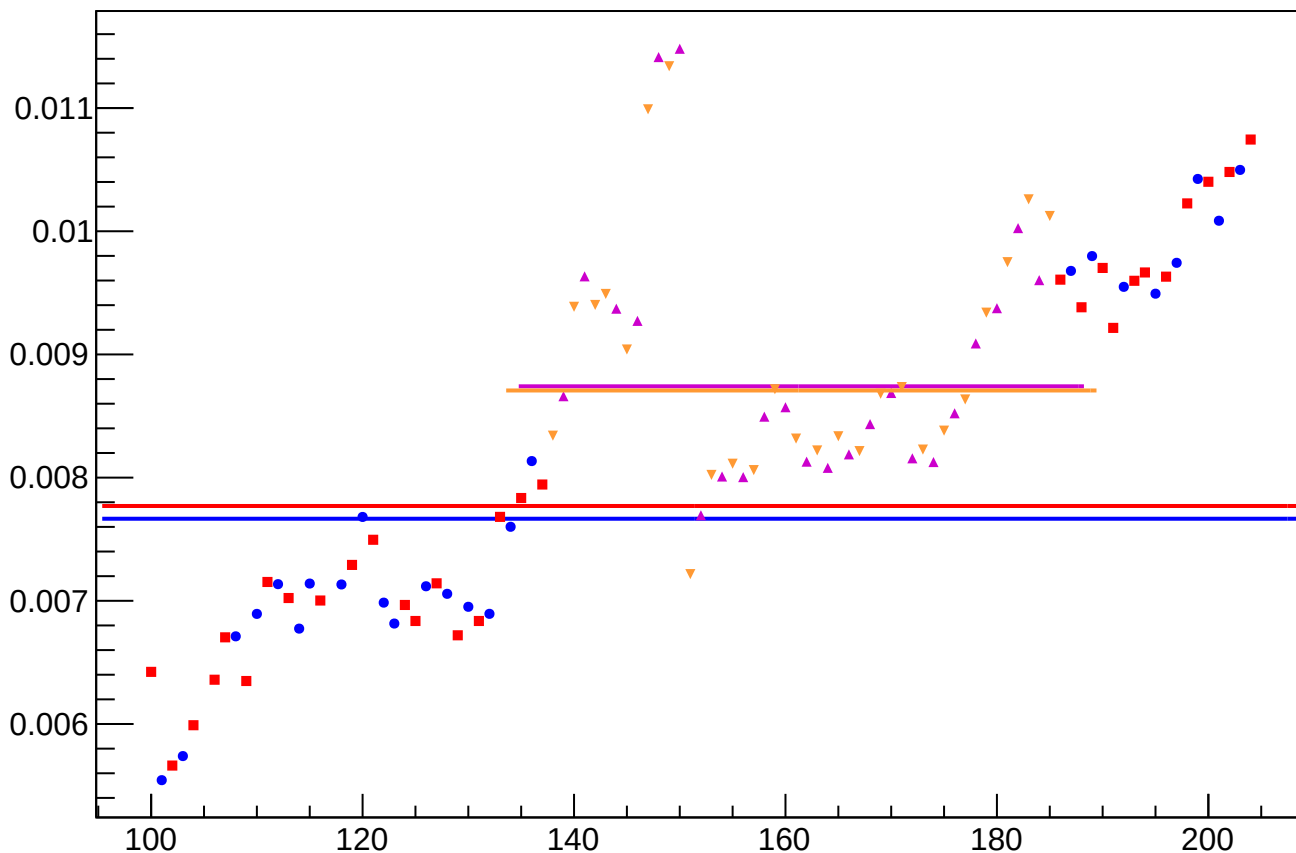
Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

All: -2.314+/-0.000

χ^2/NDF : 492385353855.5/100

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 966040.3/24

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1103720.5/29

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

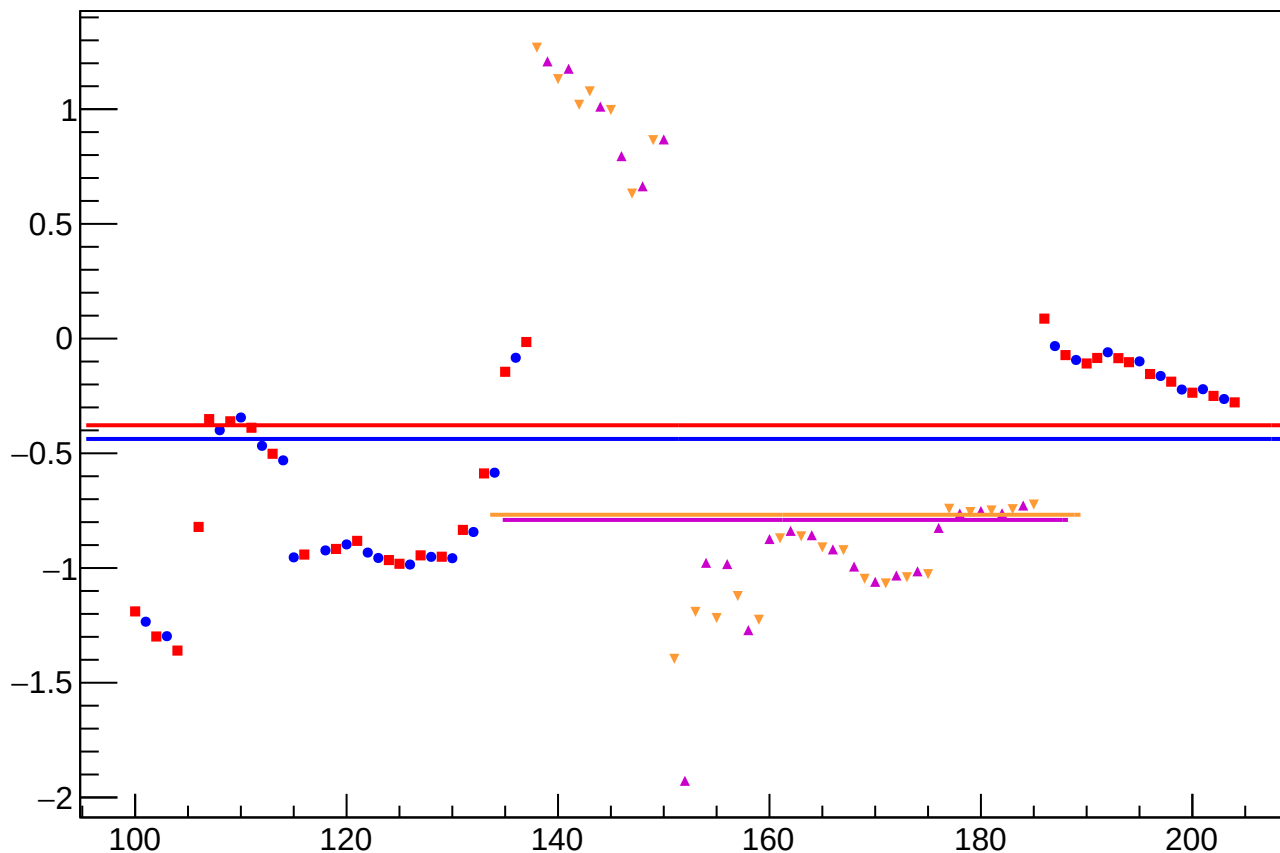
Right: 0.008+/-0.000 χ^2/NDF : 2072030.9/54

In: 0.008+/-0.000 χ^2/NDF :1563688.7/47

Out: 0.008+/-0.000 χ^2/NDF :1677547.9/54

All: 0.008+/-0.000 χ^2/NDF : 3241366.0/102

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.437 $\pm$ 0.000 χ^2 /NDF: 22142531345.1/24

Left Out: -0.768 $\pm$ 0.000 χ^2 /NDF: 120774855982.9/24

Right Out: -0.378 $\pm$ 0.000 χ^2 /NDF: 25015524299.9/29

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

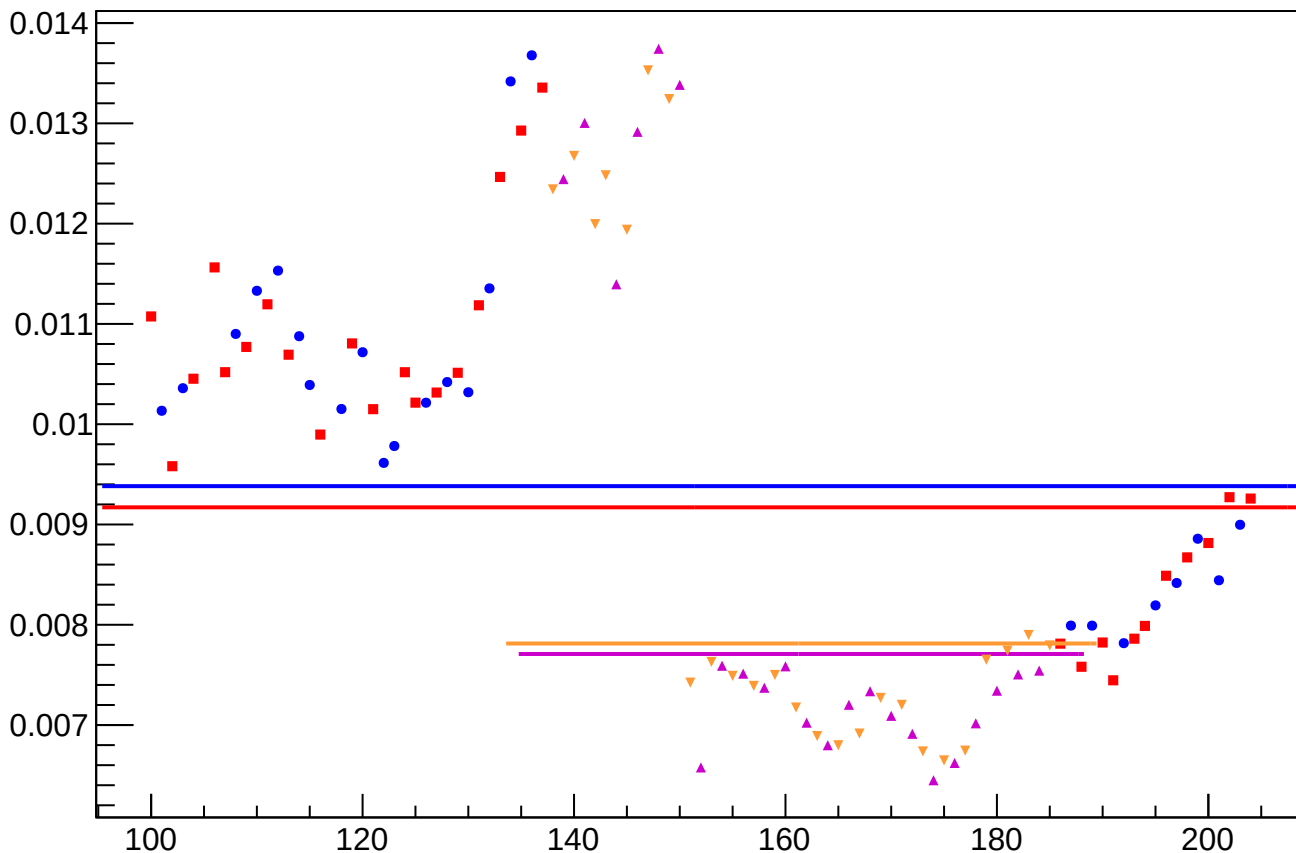
Right: -0.405 $\pm$ 0.000 χ^2 /NDF: 47418922921.7/54

In: -0.674 $\pm$ 0.000 χ^2 /NDF: 156753822098.6/47

Out: -0.626 $\pm$ 0.000 χ^2 /NDF: 161430792569.0/54

All: -0.649 $\pm$ 0.000 χ^2 /NDF: 318686403812.1

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 539184.2/24

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 628133.5/29

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

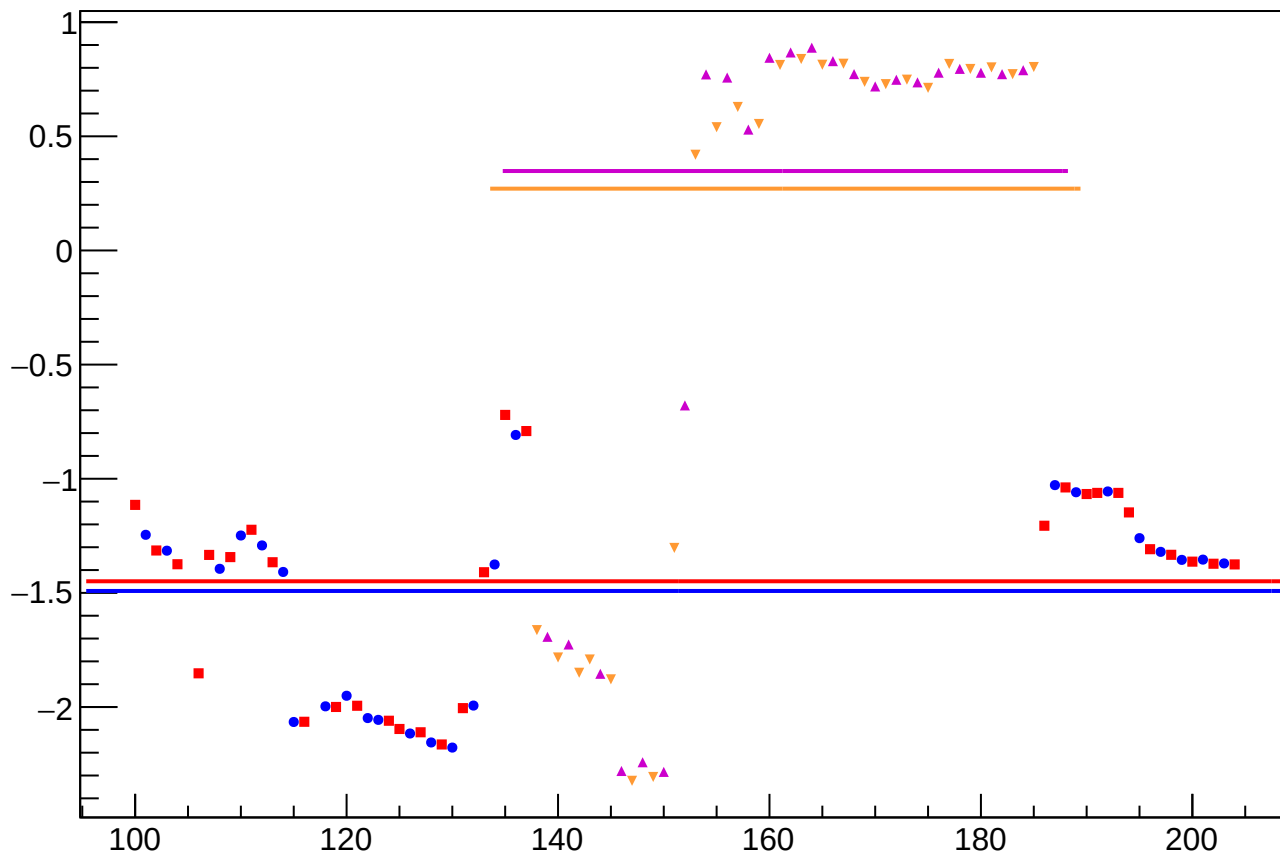
Right: 0.009+/-0.000 χ^2/NDF : 1173850.3/54

In: 0.008+/-0.000 χ^2/NDF :2787753.6/47

Out: 0.008+/-0.000 χ^2/NDF :2713100.5/54

All: 0.008+/-0.000 χ^2/NDF : 5501869.2/102

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.492 $\pm$ 0.000 χ^2 /NDF: 173534077069.2/24

Left Out: 0.271 $\pm$ 0.000 χ^2 /NDF: 2583233987355.9/24

Right Out: -1.449 $\pm$ 0.000 χ^2 /NDF: 163938578119.0/29

Left In: 0.348 $\pm$ 0.000 χ^2 /NDF: 2274004426513.8/22

Left: 0.308 $\pm$ 0.000 χ^2 /NDF: 4864843200778.2/47

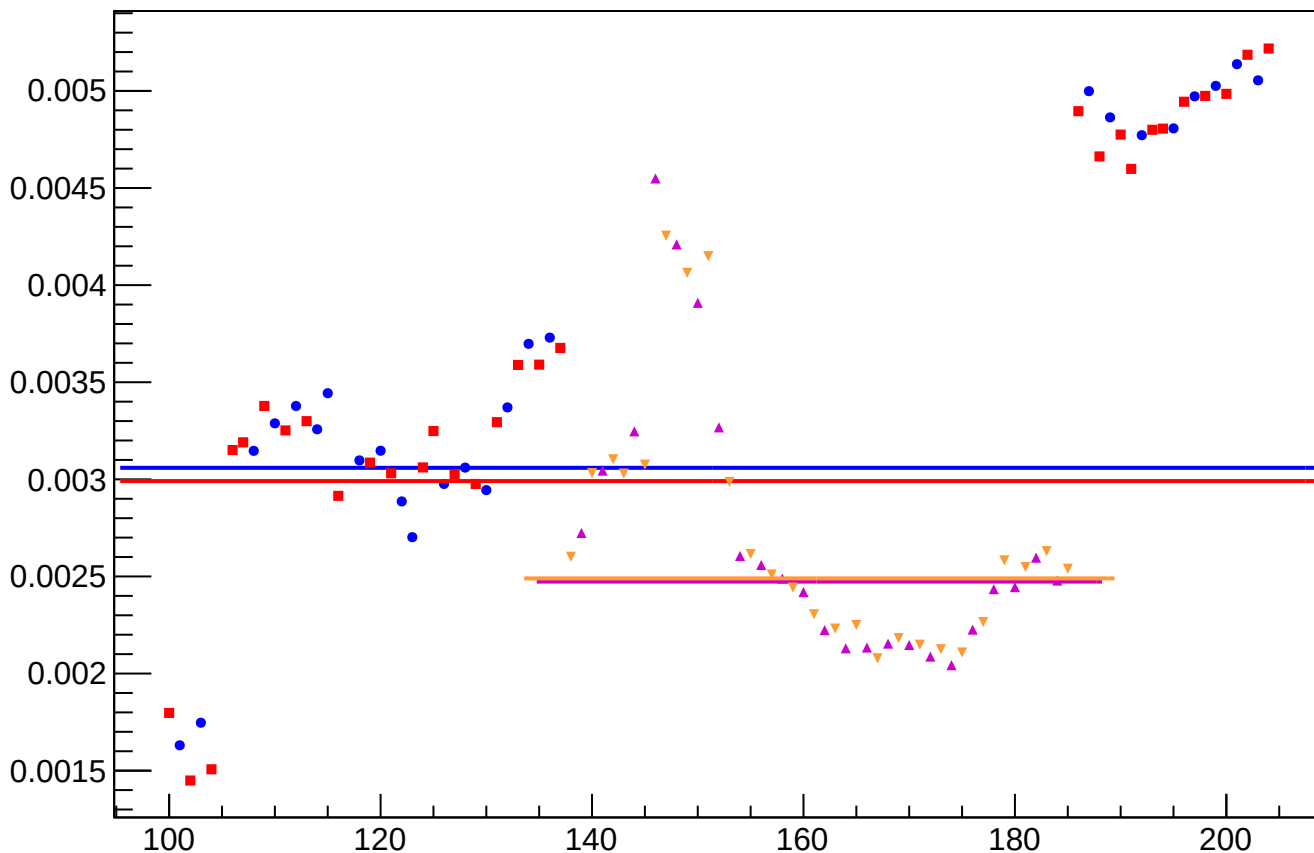
Right: -1.469 $\pm$ 0.000 χ^2 /NDF: 338512298967.4/54

In: -0.206 $\pm$ 0.000 χ^2 /NDF: 4975435354419.9/47

Out: -0.286 $\pm$ 0.000 χ^2 /NDF: 5256227716624.3/54

All: -0.247 $\pm$ 0.000 χ^2 /NDF: 1024353974317

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2973117.2/24

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4225464.5/29

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

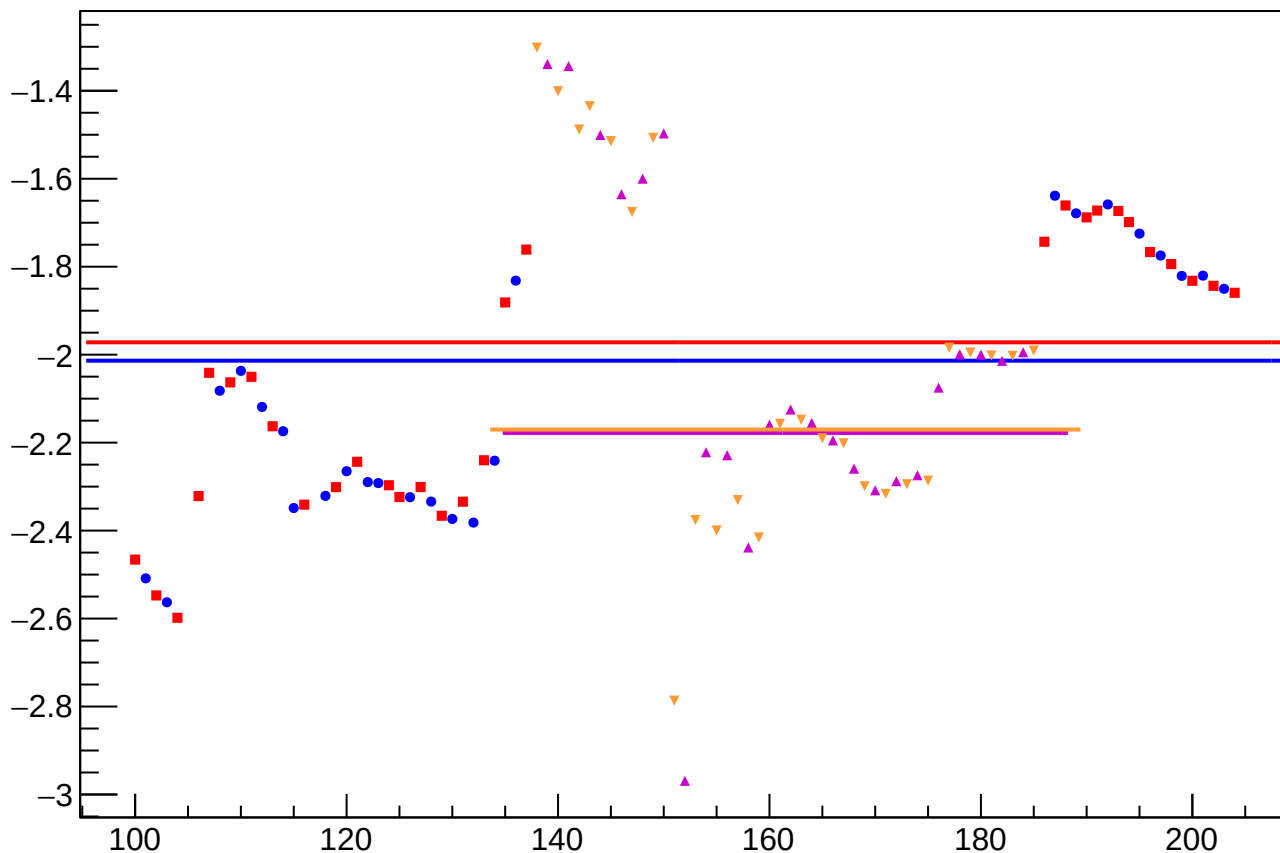
Right: 0.003+/-0.000 χ^2/NDF : 7203949.8/54

In: 0.003+/-0.000 χ^2/NDF :4621313.2/47

Out: 0.003+/-0.000 χ^2/NDF :5721725.7/54

All: 0.003+/-0.000 χ^2/NDF : 10343060.5/102

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.014+/-0.000 χ^2/NDF : 29727004043.0/24

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.972+/-0.000 χ^2/NDF : 34527034861.3/29

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

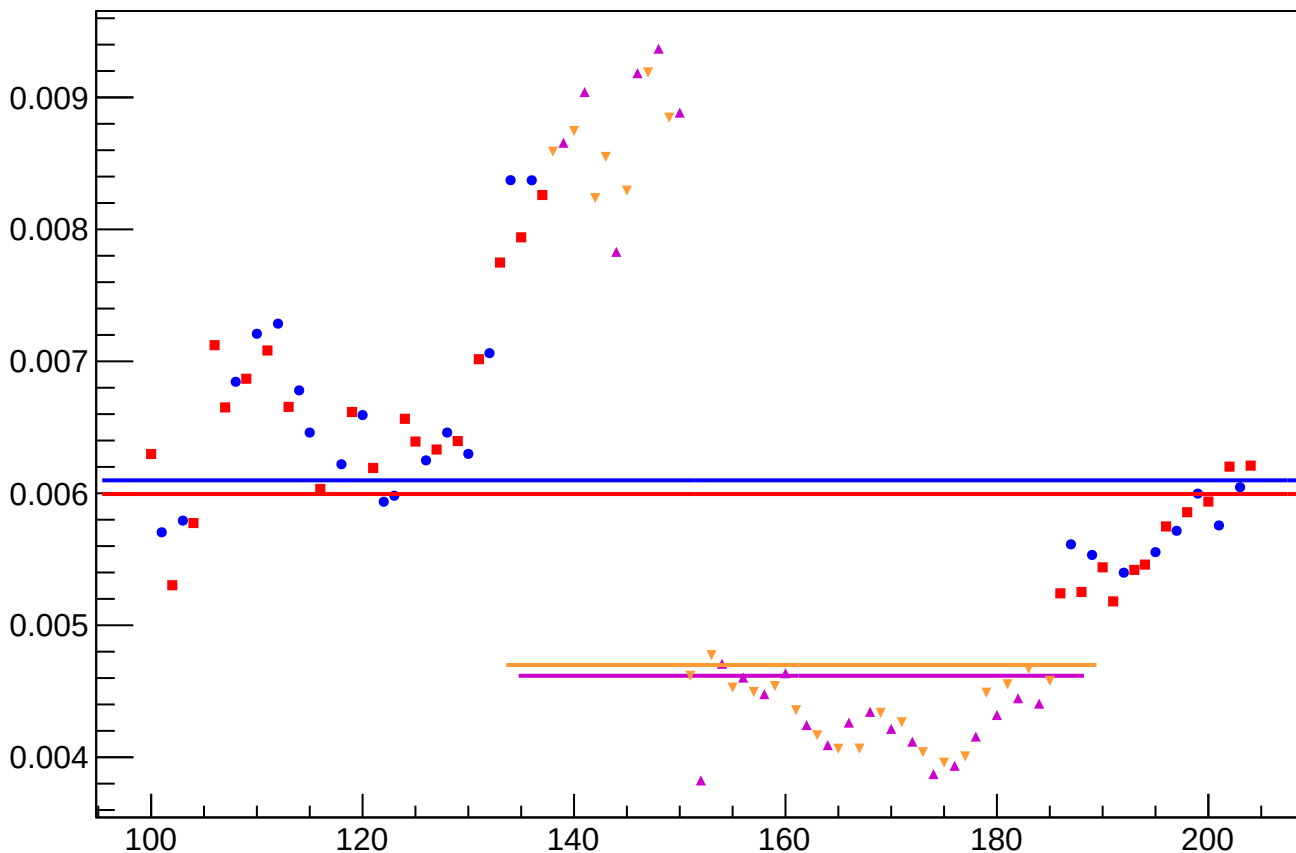
Right: -1.991+/-0.000 χ^2/NDF : 64553830355.9/54

In: -2.128+/-0.000 χ^2/NDF : 109099623605.7/47

Out: -2.104+/-0.000 χ^2/NDF : 104427192540.4/54

All: -2.116+/-0.000 χ^2/NDF : 213855935007.1

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 301767.9/24

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 352773.2/29

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

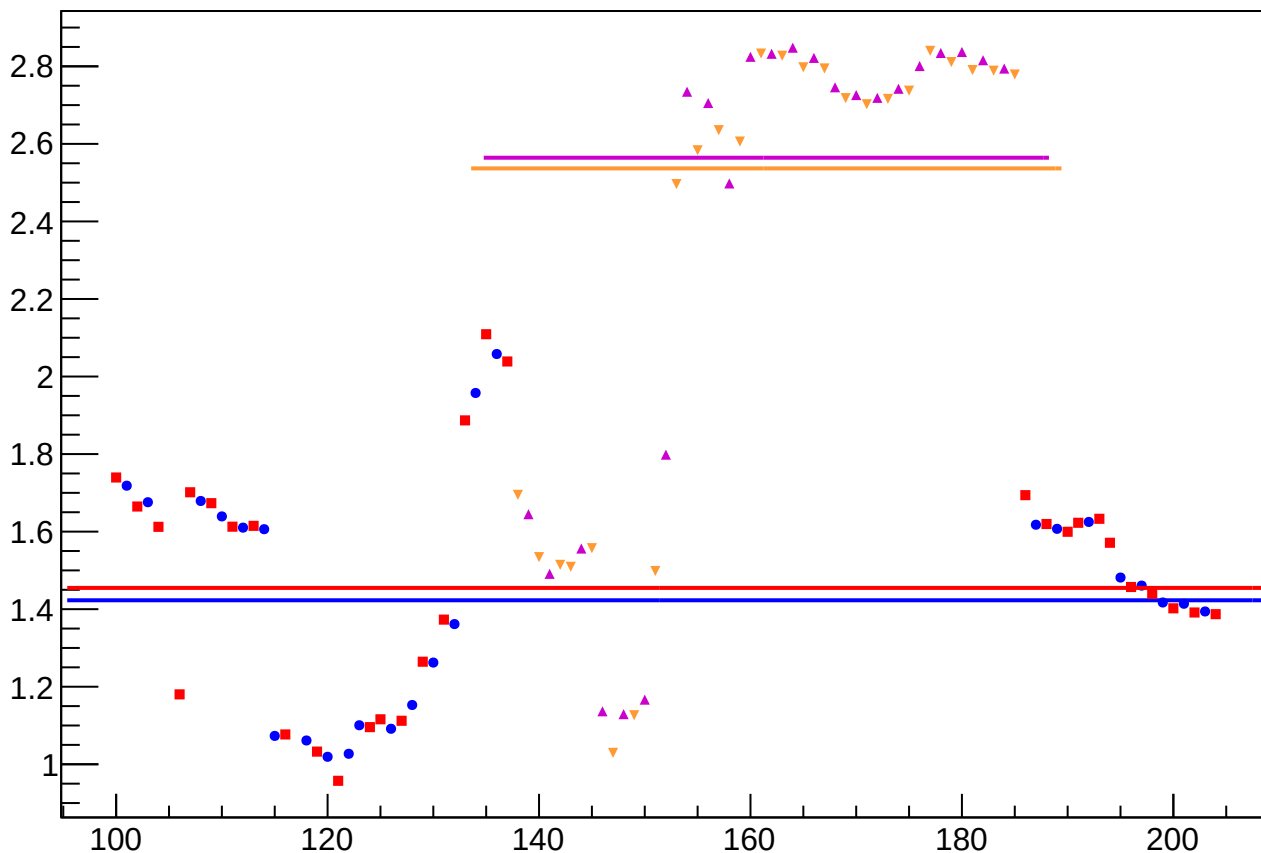
Right: 0.006+/-0.000 χ^2/NDF : 658259.9/54

In: 0.005+/-0.000 χ^2/NDF :3637991.3/47

Out: 0.005+/-0.000 χ^2/NDF :3520327.0/54

All: 0.005+/-0.000 χ^2/NDF : 7163427.9/102

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174111332729.7/24

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.455+/-0.000 χ^2/NDF : 176900285442.2/29

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

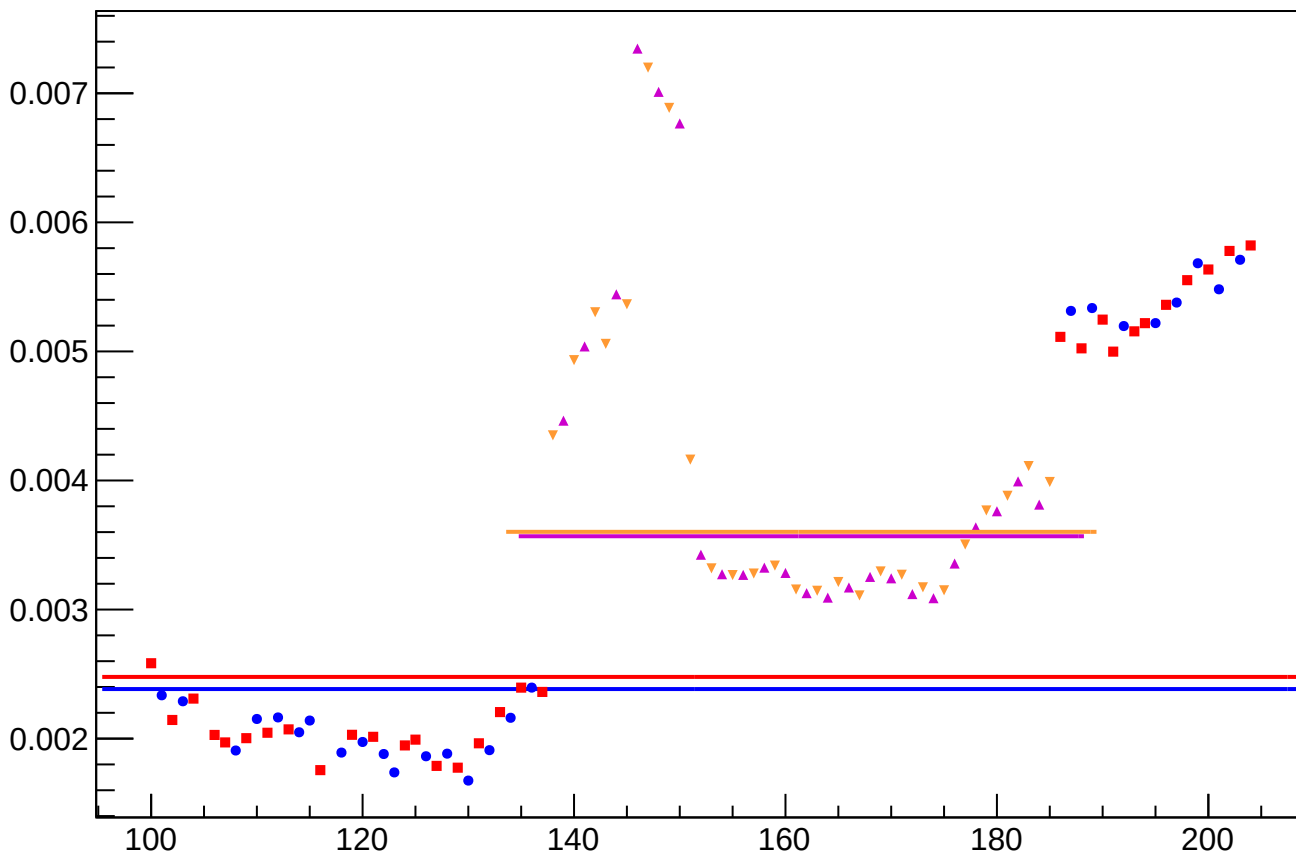
Right: 1.439+/-0.000 χ^2/NDF : 351908591720.8/54

In: 1.901+/-0.000 χ^2/NDF : 1363110785369.4/47

Out: 1.904+/-0.000 χ^2/NDF : 1329003090484.4/54

All: 1.902+/-0.000 χ^2/NDF : 2692125881724.0

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3998102.3/24

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4840219.9/29

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

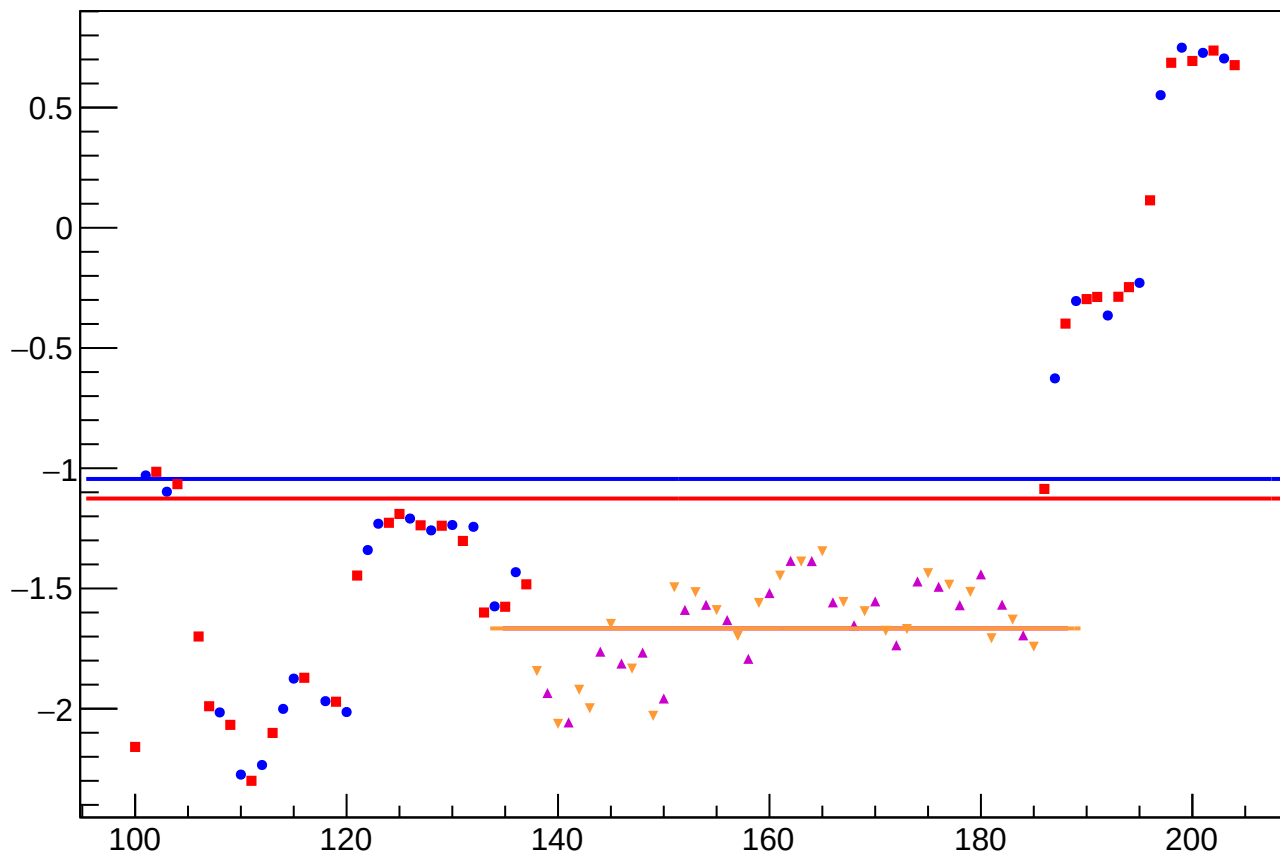
Right: 0.002+/-0.000 χ^2/NDF : 8853878.7/54

In: 0.003+/-0.000 χ^2/NDF :7559473.9/47

Out: 0.003+/-0.000 χ^2/NDF :8156607.5/54

All: 0.003+/-0.000 χ^2/NDF : 15728689.0/102

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.045+/-0.000

χ^2/NDF : 142712236412.6/24

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -1.089+/-0.000

χ^2/NDF : 321081001476.4/54

Right Out: -1.126+/-0.000

χ^2/NDF : 177686111443.4/29

In: -1.471+/-0.000

χ^2/NDF : 206692617772.0/47

Out: -1.482+/-0.000

χ^2/NDF : 239933777875.3/54

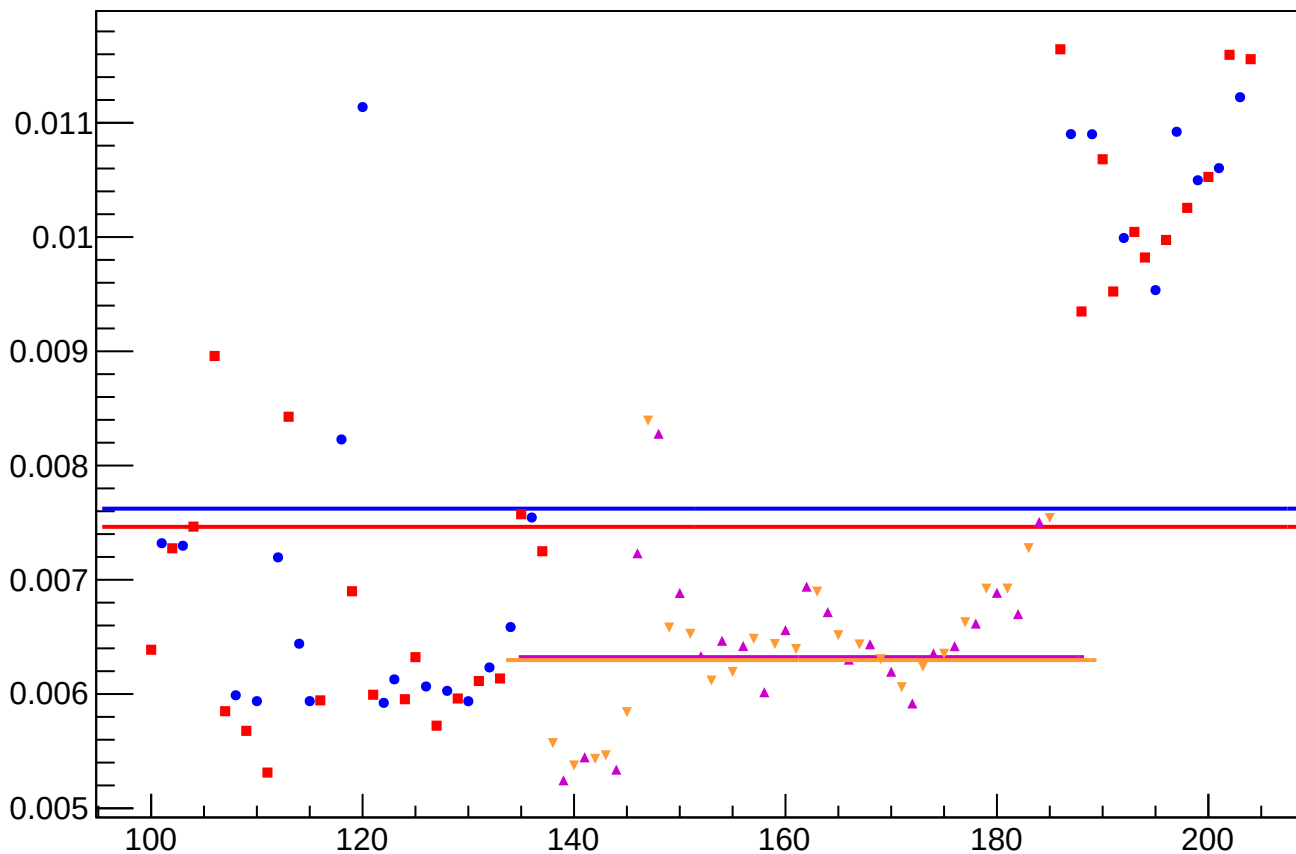
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.477+/-0.000

χ^2/NDF : 446661267691.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1310744.3/24

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1721949.0/29

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

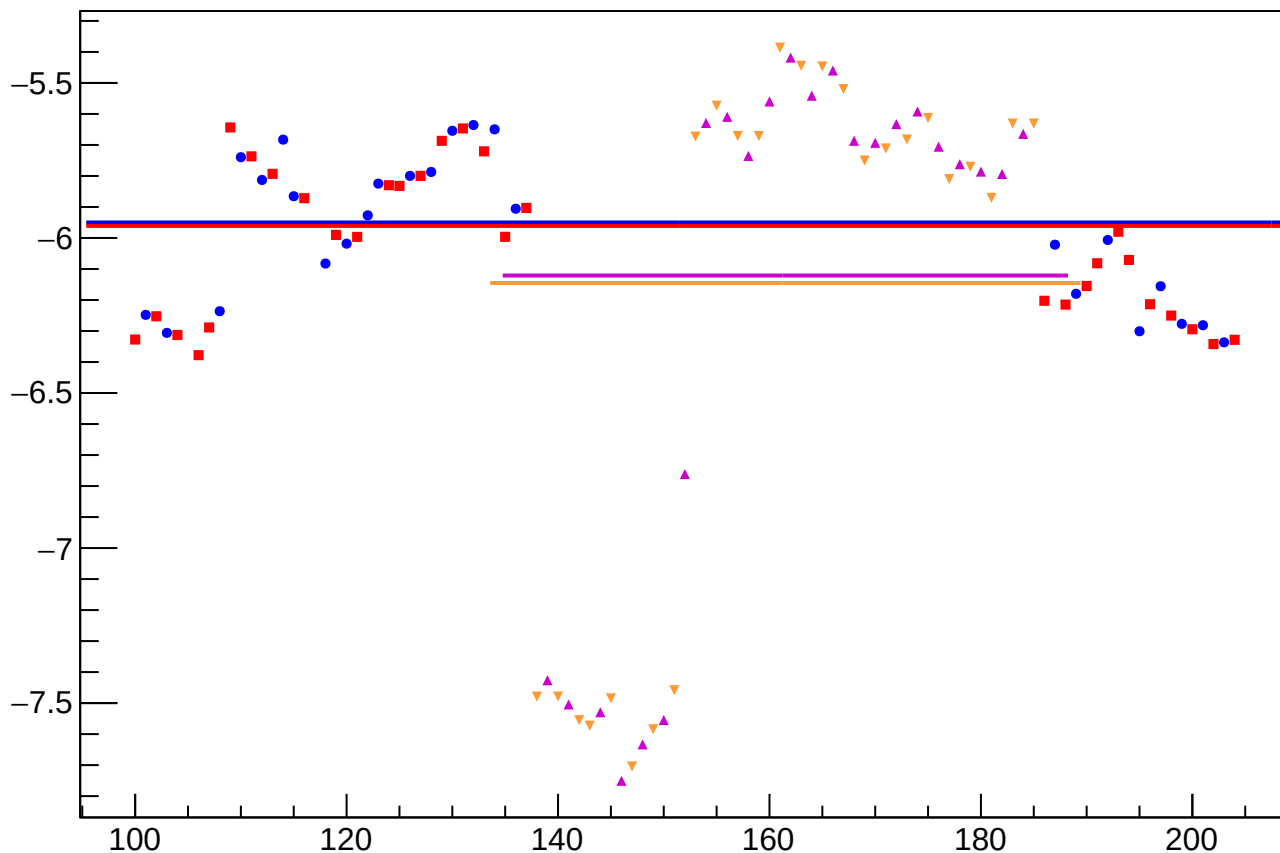
Right: 0.008+/-0.000 χ^2/NDF : 3037922.8/54

In: 0.007+/-0.000 χ^2/NDF : 2076067.1/47

Out: 0.007+/-0.000 χ^2/NDF : 2442200.7/54

All: 0.007+/-0.000 χ^2/NDF : 4519055.3/102

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.950+/-0.000

χ^2/NDF : 13908367902.6/24

Left Out: -6.145+/-0.000

χ^2/NDF : 185364150237.7/24

Right Out: -5.961+/-0.000

χ^2/NDF : 15798080831.6/29

Left In: -6.121+/-0.000

χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000

χ^2/NDF : 343753122832.9/47

Right: -5.956+/-0.000

χ^2/NDF : 29721223313.9/54

In: -6.038+/-0.000

χ^2/NDF : 175724981619.6/47

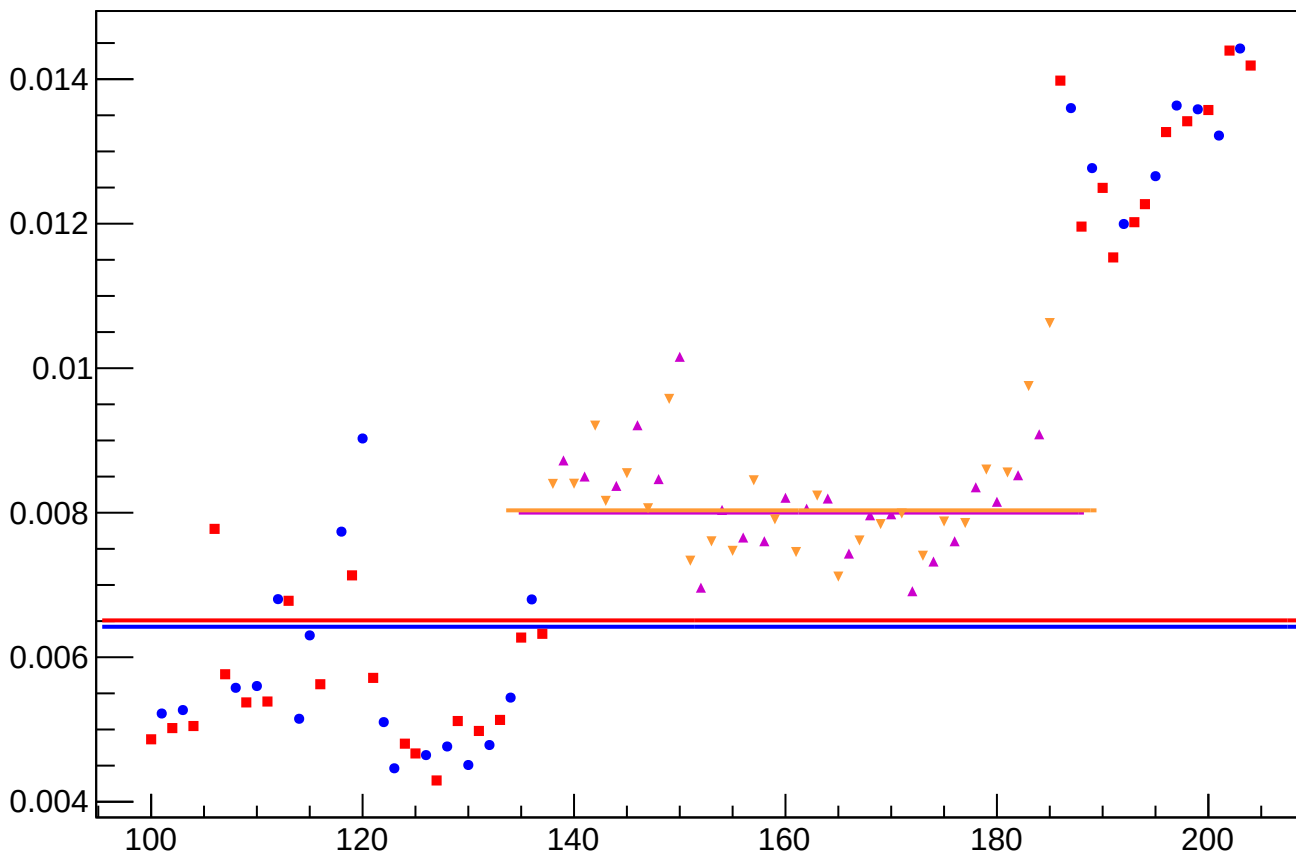
Out: -6.052+/-0.000

χ^2/NDF : 205574529173.7/54

All: -6.045+/-0.000

χ^2/NDF : 381347827911.1

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 3584954.0/24

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4255533.3/29

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

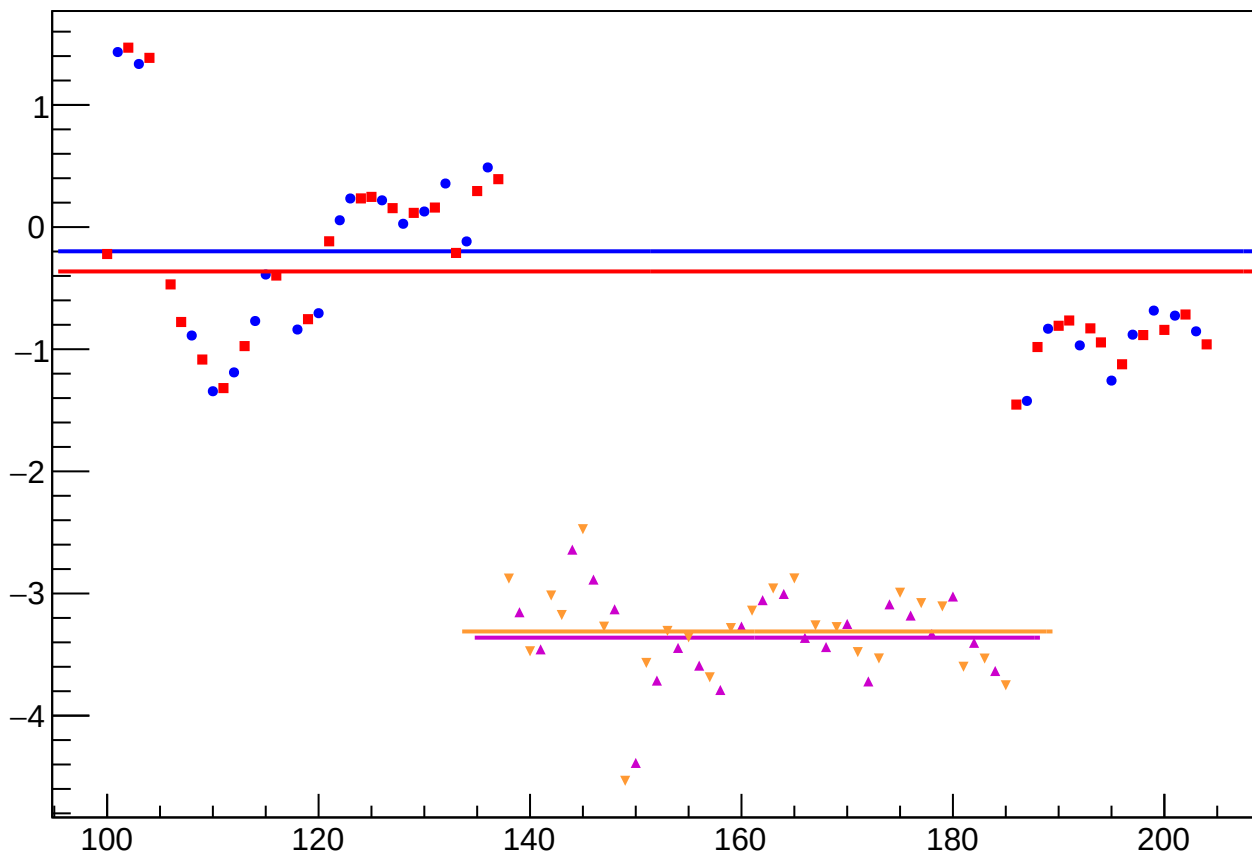
Right: 0.006+/-0.000 χ^2/NDF : 7842408.8/54

In: 0.007+/-0.000 χ^2/NDF :4403422.7/47

Out: 0.007+/-0.000 χ^2/NDF :5064798.8/54

All: 0.007+/-0.000 χ^2/NDF : 9468600.1/102

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.198 ± 0.000 $\chi^2/\text{NDF}: 29388553996.8/24$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.363 ± 0.000 $\chi^2/\text{NDF}: 31953343811.0/29$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

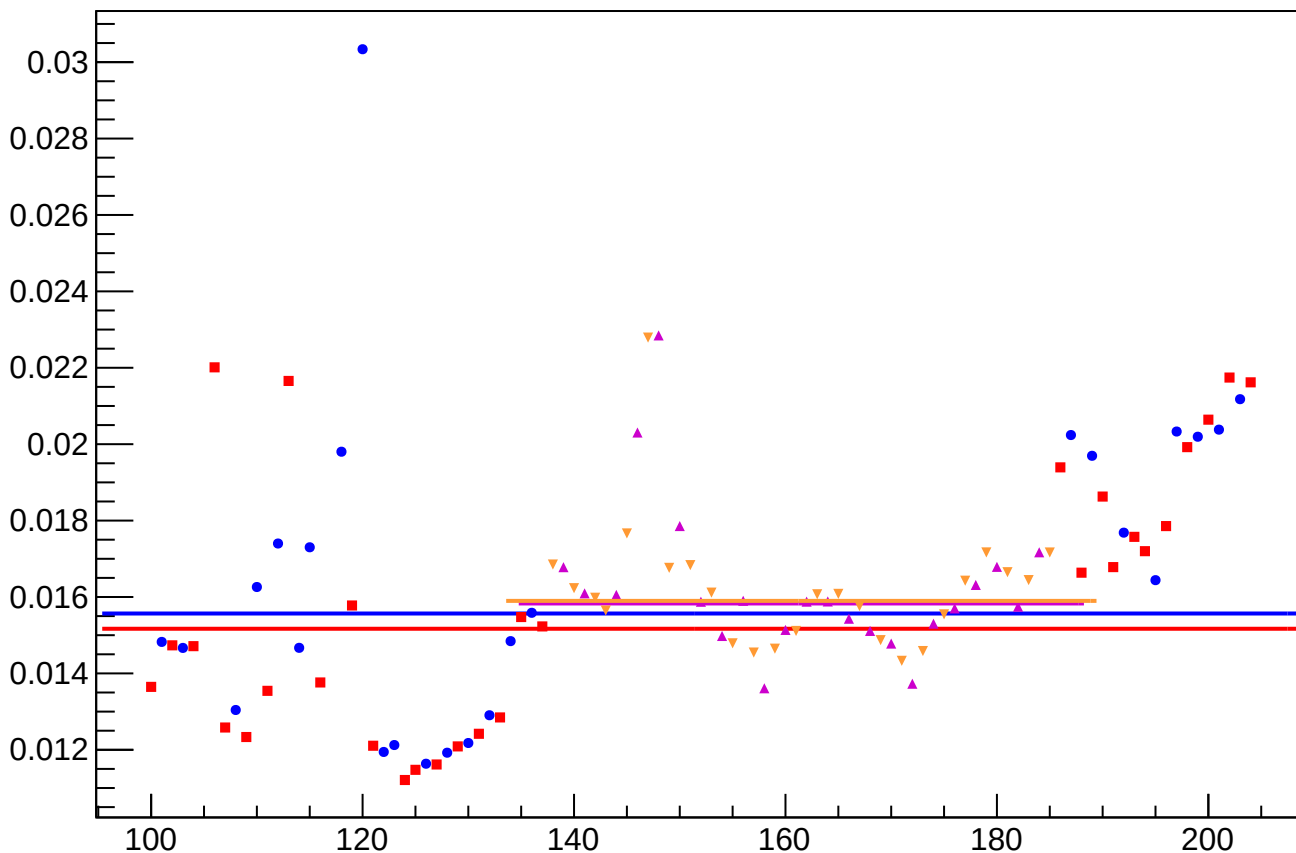
Right: -0.290 ± 0.000 $\chi^2/\text{NDF}: 62024628822.0/54$

In: -2.077 ± 0.000 $\chi^2/\text{NDF}: 306736805918.5/47$

Out: -1.997 ± 0.000 $\chi^2/\text{NDF}: 312210118287.7/54$

All: -2.035 ± 0.000 $\chi^2/\text{NDF}: 619332628778.0$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1017799.1/24

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1128941.4/29

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

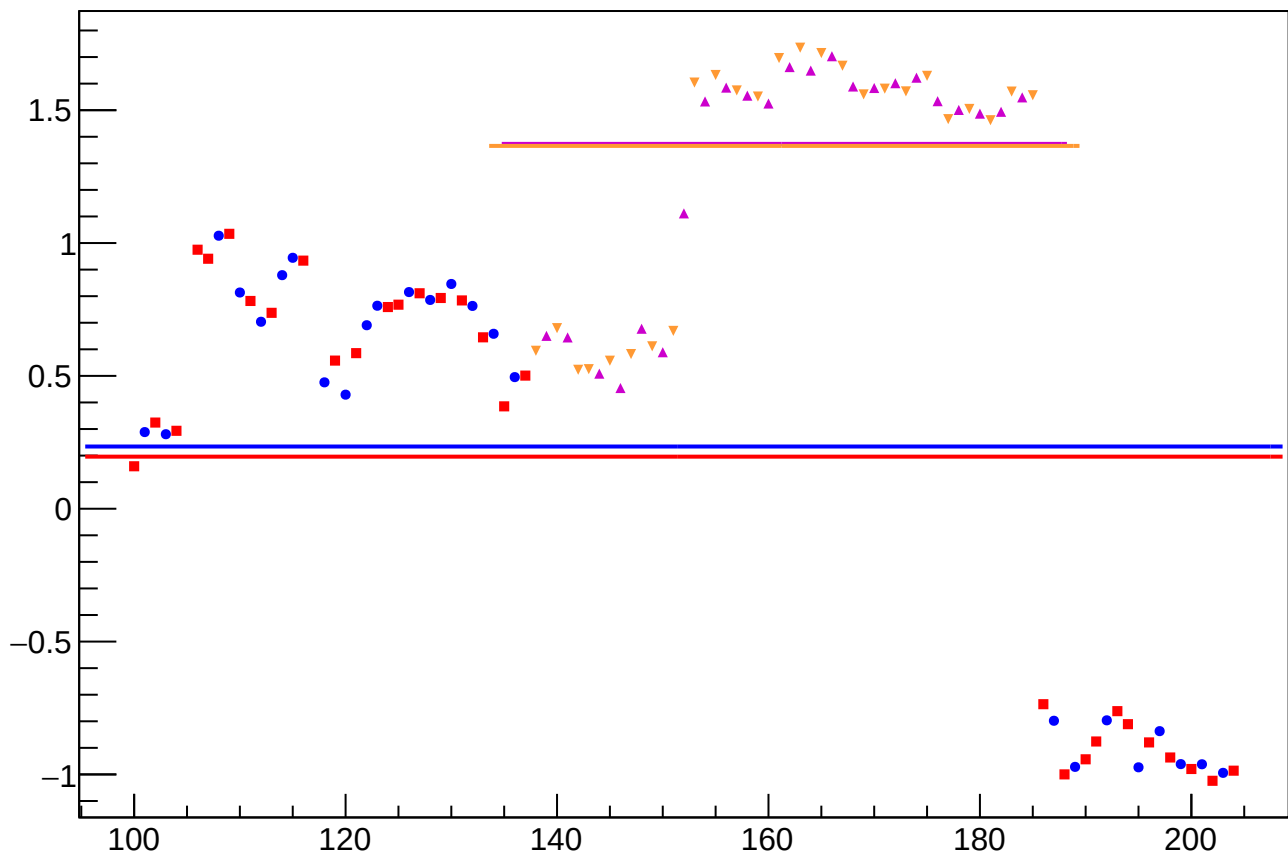
Right: 0.015+/-0.000 χ^2/NDF : 2154738.0/54

In: 0.016+/-0.000 χ^2/NDF :1361056.5/47

Out: 0.016+/-0.000 χ^2/NDF :1414060.0/54

All: 0.016+/-0.000 χ^2/NDF : 2777814.4/102

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.234+/-0.000

χ^2/NDF : 61482751961.8/24

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

Right: 0.213+/-0.000 χ^2/NDF : 139830441917.7/54

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 1.113+/-0.000 χ^2/NDF : 251679410417.6/47

Right Out: 0.196+/-0.000

χ^2/NDF : 78247320954.3/29

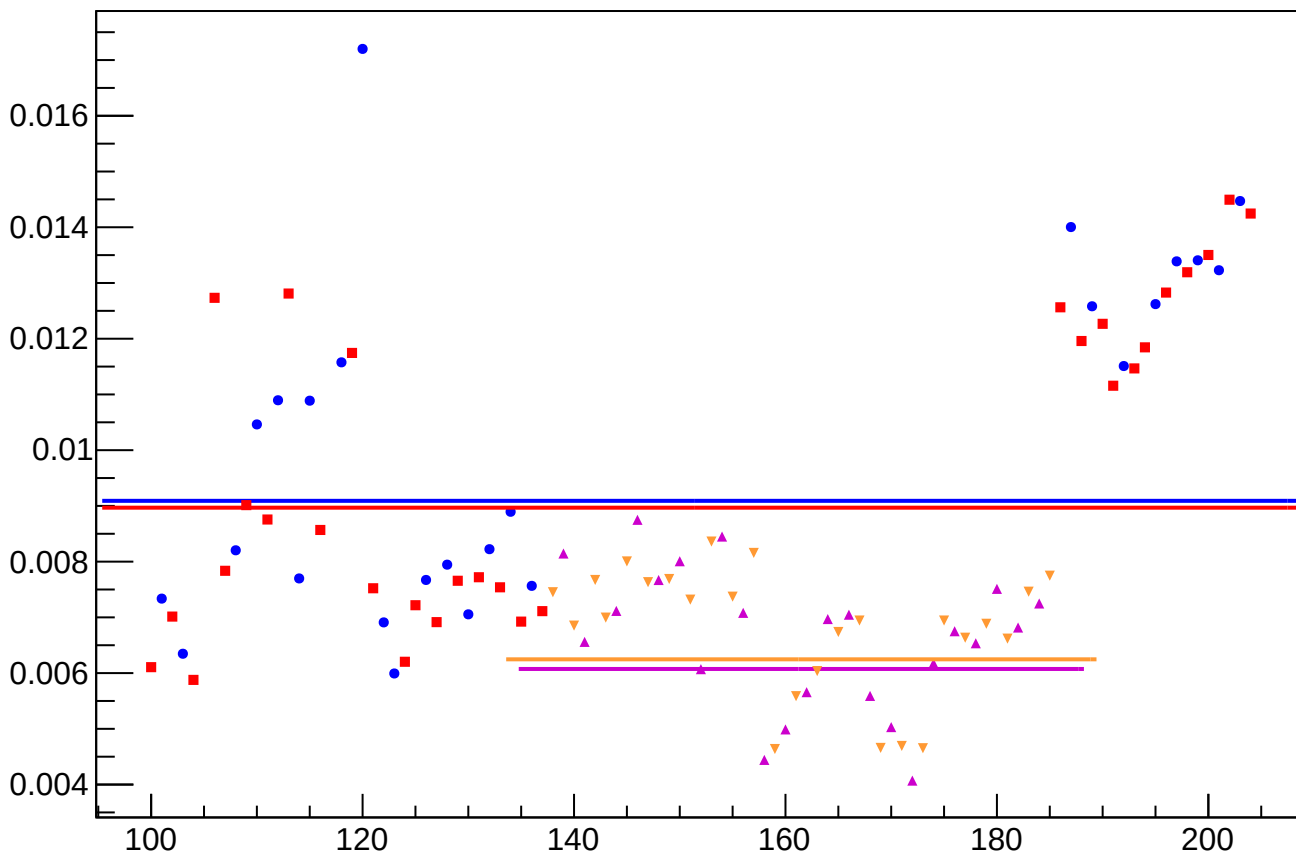
Out: 1.059+/-0.000 χ^2/NDF : 305683600471.4/54

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.085+/-0.000 χ^2/NDF : 558177061662.6

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 1762419.4/24

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2088612.0/29

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2775615.7/47

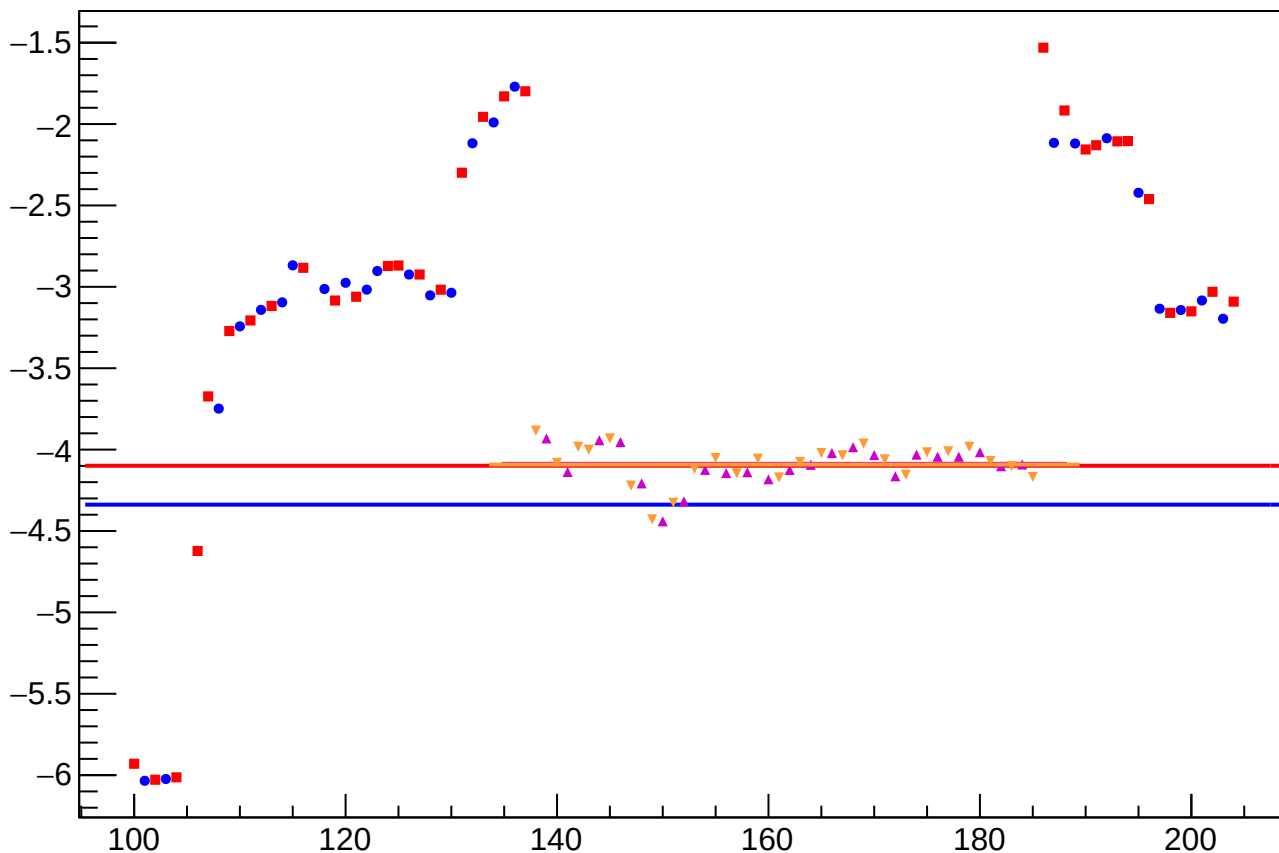
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 3853110.6/54

In: 0.007 $\pm$ 0.000 χ^2 /NDF:4973310.9/47

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:5072632.6/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 10067709.1/102

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.338+/-0.000

χ^2/NDF : 262056579767.5/24

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right Out: -4.099+/-0.000

χ^2/NDF : 268079286168.4/29

Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Right: -4.232+/-0.000

χ^2/NDF : 532615729476.4/54

In: -4.328+/-0.000

χ^2/NDF : 262347315648.5/47

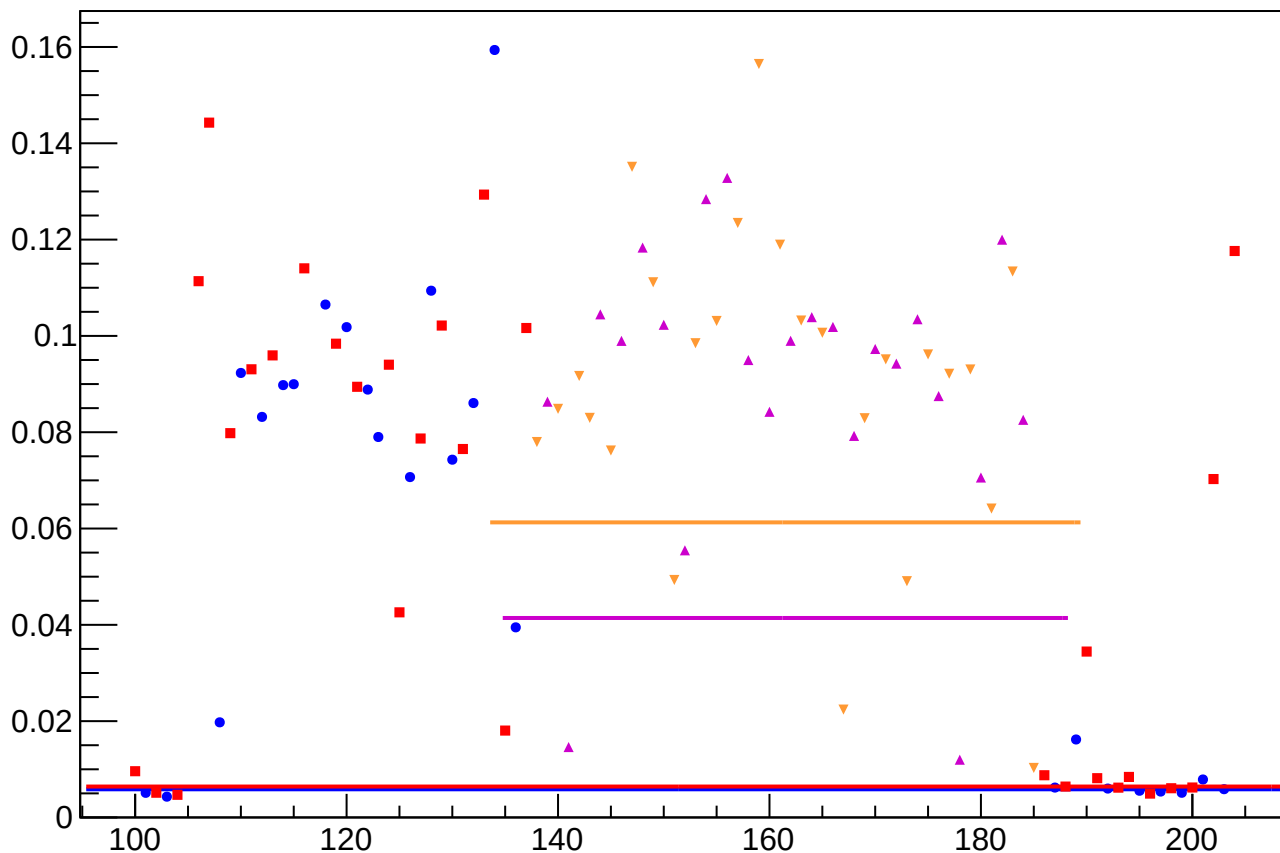
Out: -4.099+/-0.000

χ^2/NDF : 268119245892.7/54

All: -4.226+/-0.000

χ^2/NDF : 532830247876.7

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8039702.9/24

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 10093294.5/29

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

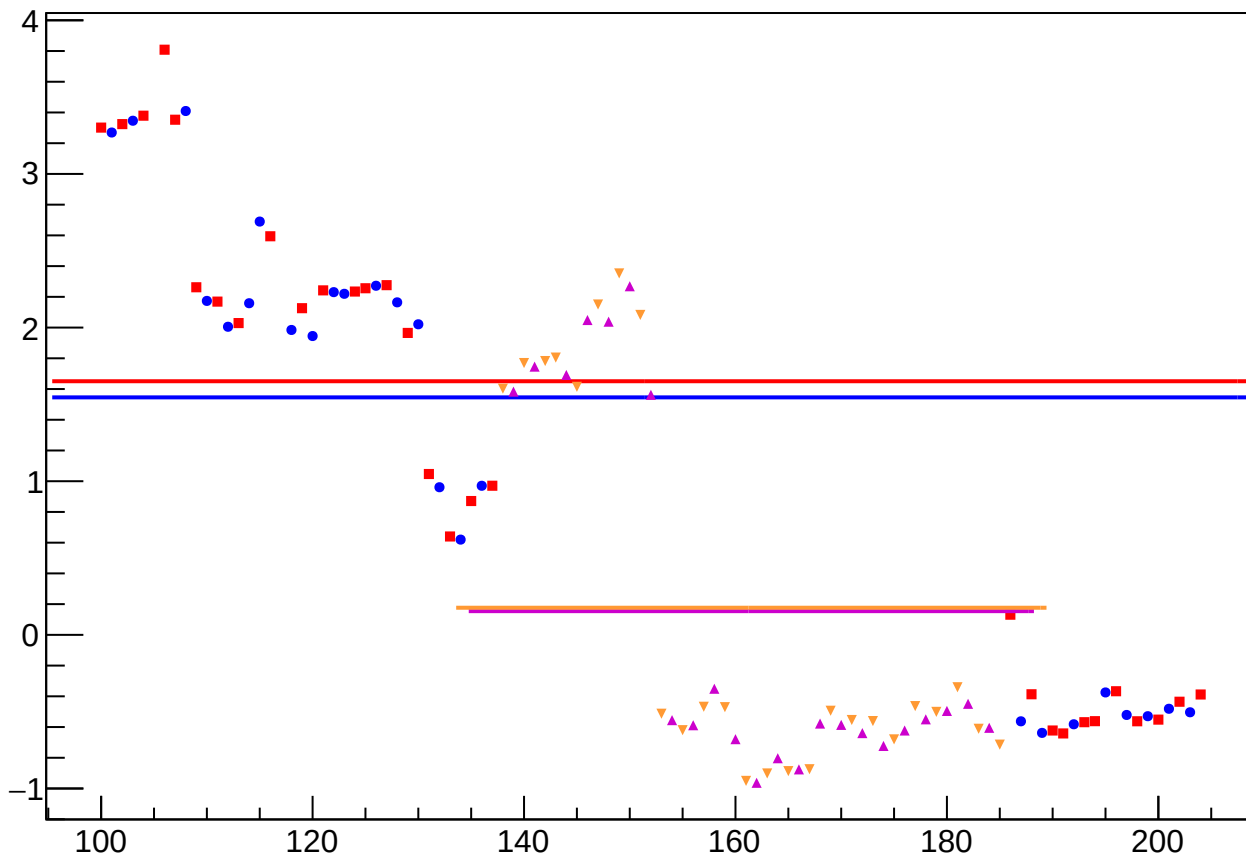
Right: 0.006+/-0.000 χ^2/NDF : 18161423.0/54

In: 0.007+/-0.000 χ^2/NDF :31506114.0/47

Out: 0.008+/-0.000 χ^2/NDF :35573854.7/54

All: 0.008+/-0.000 χ^2/NDF : 67183919.9/102

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.546 $\pm$ 0.000 χ^2 /NDF: 188644191324.5/24

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF: 3275313367.7/24

Right Out: 1.651 $\pm$ 0.000 χ^2 /NDF: 166207181304.5/29

Left In: 0.154 $\pm$ 0.000 χ^2 /NDF: 3163553595.0/22

Left: 0.165 $\pm$ 0.000 χ^2 /NDF: 6439465655.5/47

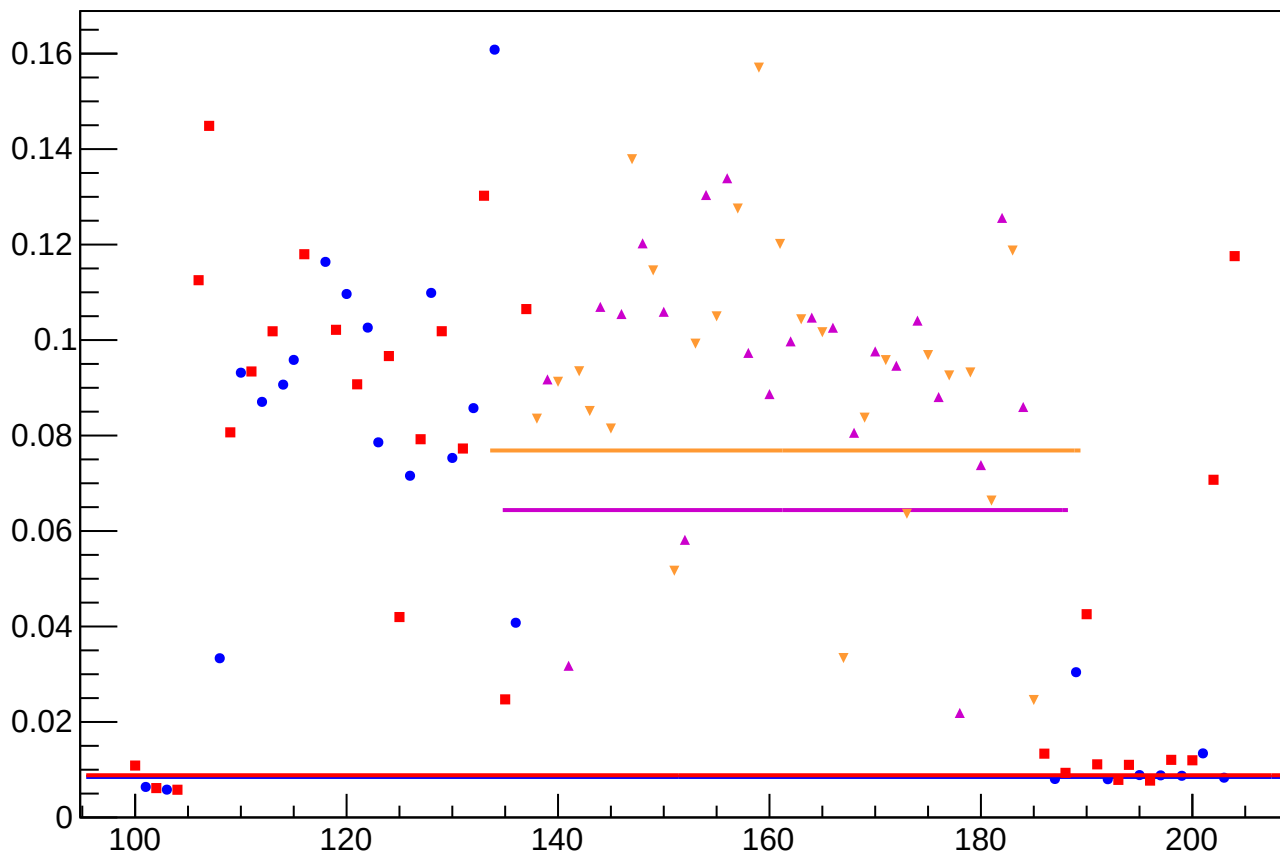
Right: 1.595 $\pm$ 0.000 χ^2 /NDF: 355126148384.8/54

In: 1.481 $\pm$ 0.000 χ^2 /NDF: 196568760430.5/47

Out: 1.583 $\pm$ 0.000 χ^2 /NDF: 174183102758.8/54

All: 1.529 $\pm$ 0.000 χ^2 /NDF: 371024336140.1

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7991084.3/24

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 9936287.5/29

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

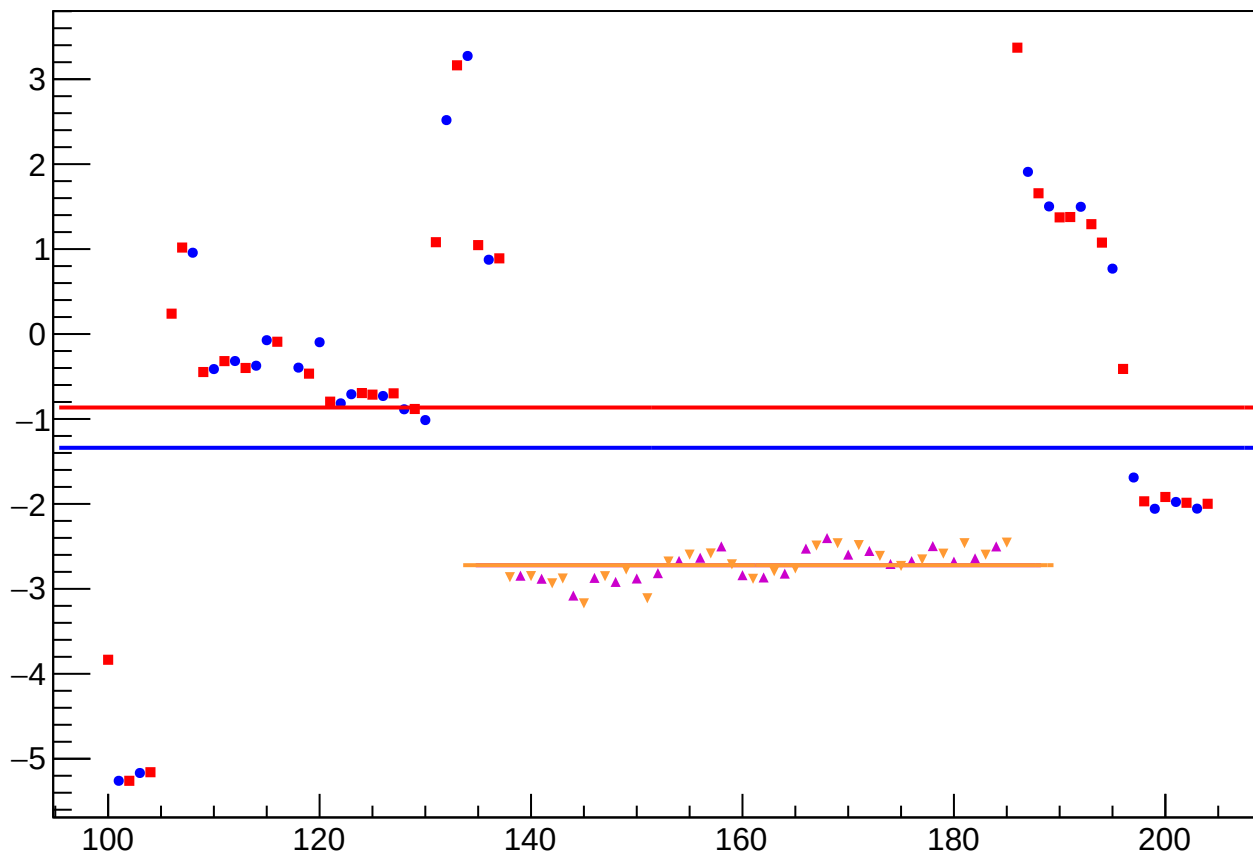
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 17933642.3/54

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30351058.7/47

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34174097.0/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 64565119.5/102

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.339+/-0.000

χ^2/NDF : 204208733505.2/24

Left: -2.722+/-0.000

χ^2/NDF : 18543711860.5/47

Left Out: -2.721+/-0.000

χ^2/NDF : 10397156971.6/24

Right: -1.081+/-0.000

χ^2/NDF : 441812814501.0/54

Right Out: -0.865+/-0.000

χ^2/NDF : 233420059320.1/29

In: -2.569+/-0.000

χ^2/NDF : 270312415455.3/47

Out: -2.492+/-0.000

χ^2/NDF : 367489047990.1/54

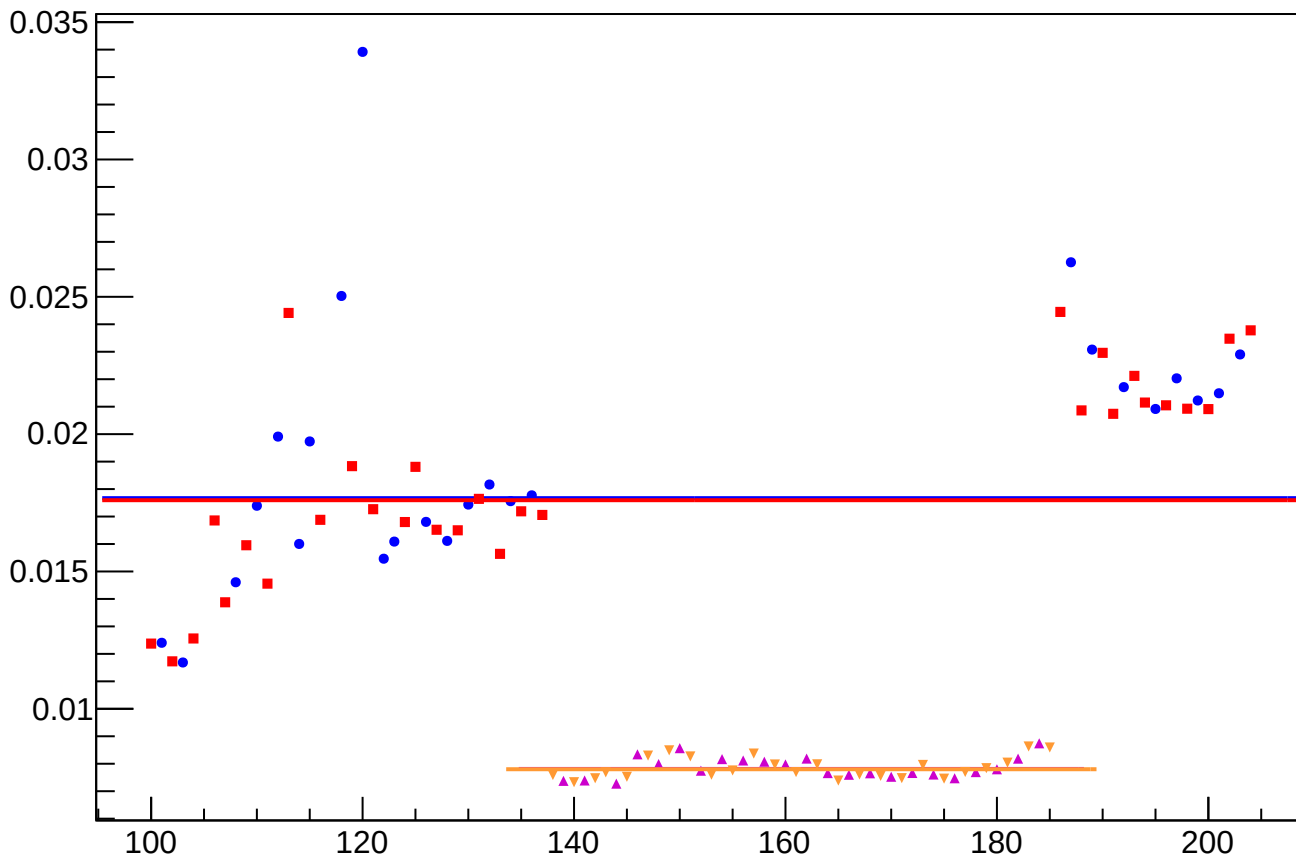
Left In: -2.722+/-0.000

χ^2/NDF : 8146484592.1/22

All: -2.529+/-0.000

χ^2/NDF : 638737462762.6

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1176658.6/24

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1145397.5/29

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

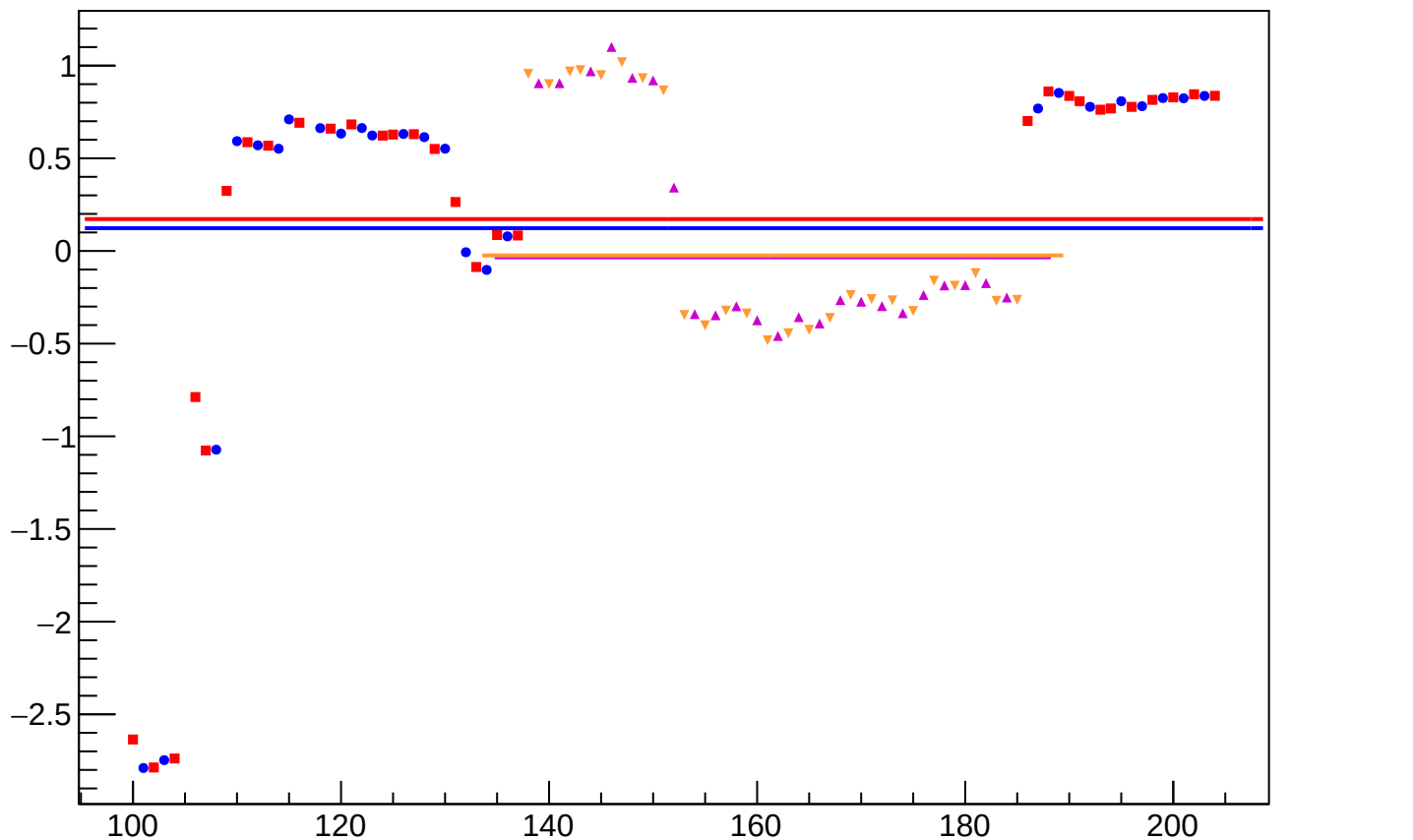
Right: 0.018+/-0.000 χ^2/NDF : 2322259.7/54

In: 0.009+/-0.000 χ^2/NDF : 7137579.7/47

Out: 0.009+/-0.000 χ^2/NDF : 8104204.8/54

All: 0.009+/-0.000 χ^2/NDF : 15245385.1/102

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.123+/-0.000

χ^2/NDF : 842510850868.7/24

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: 0.149+/-0.000

χ^2/NDF : 1760213164852.0/54

Right Out: 0.172+/-0.000

χ^2/NDF : 916778456351.0/29

In: 0.060+/-0.000

χ^2/NDF : 963380853005.0/47

Out: 0.100+/-0.000

χ^2/NDF : 1063962599829.6/54

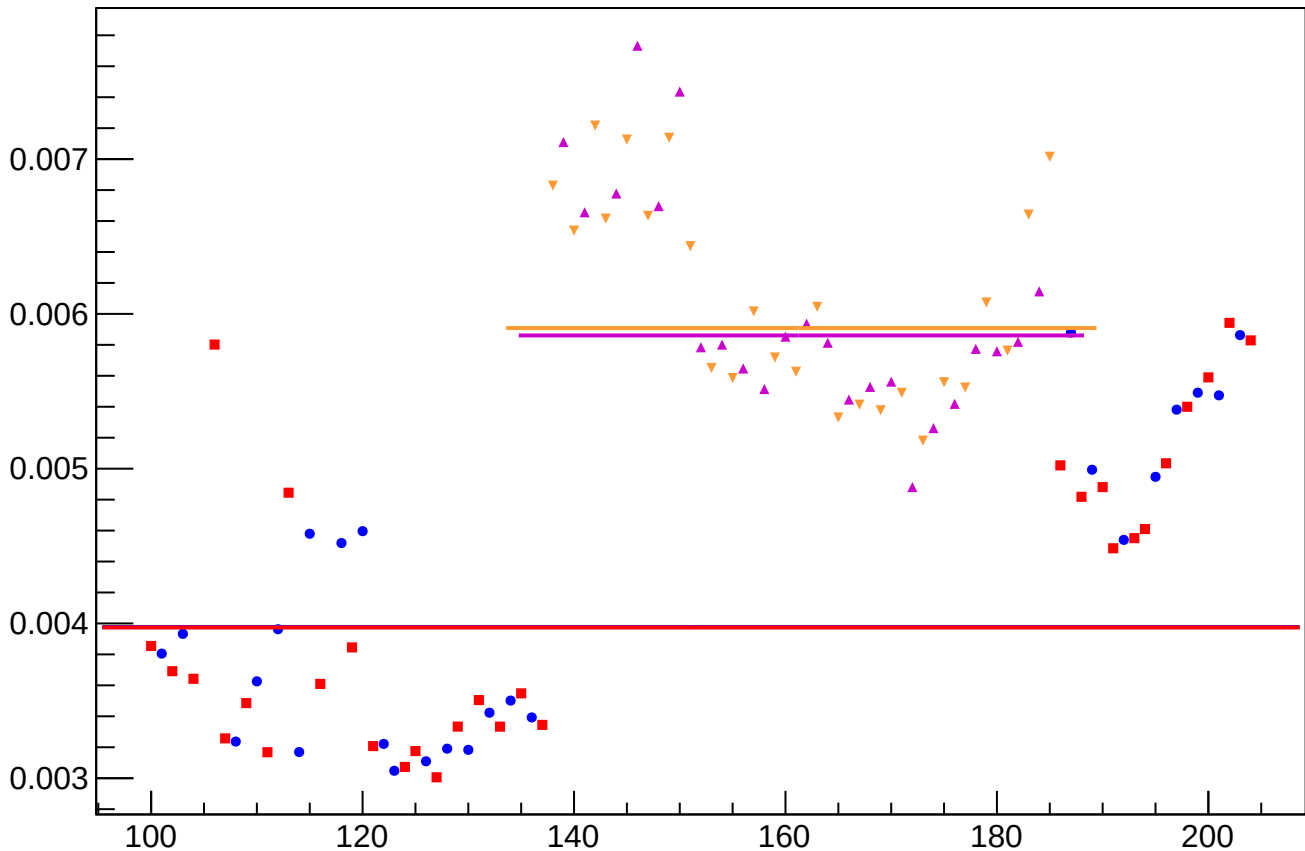
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.081+/-0.000

χ^2/NDF : 2028288439960.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1045914.9/24

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1231625.8/29

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

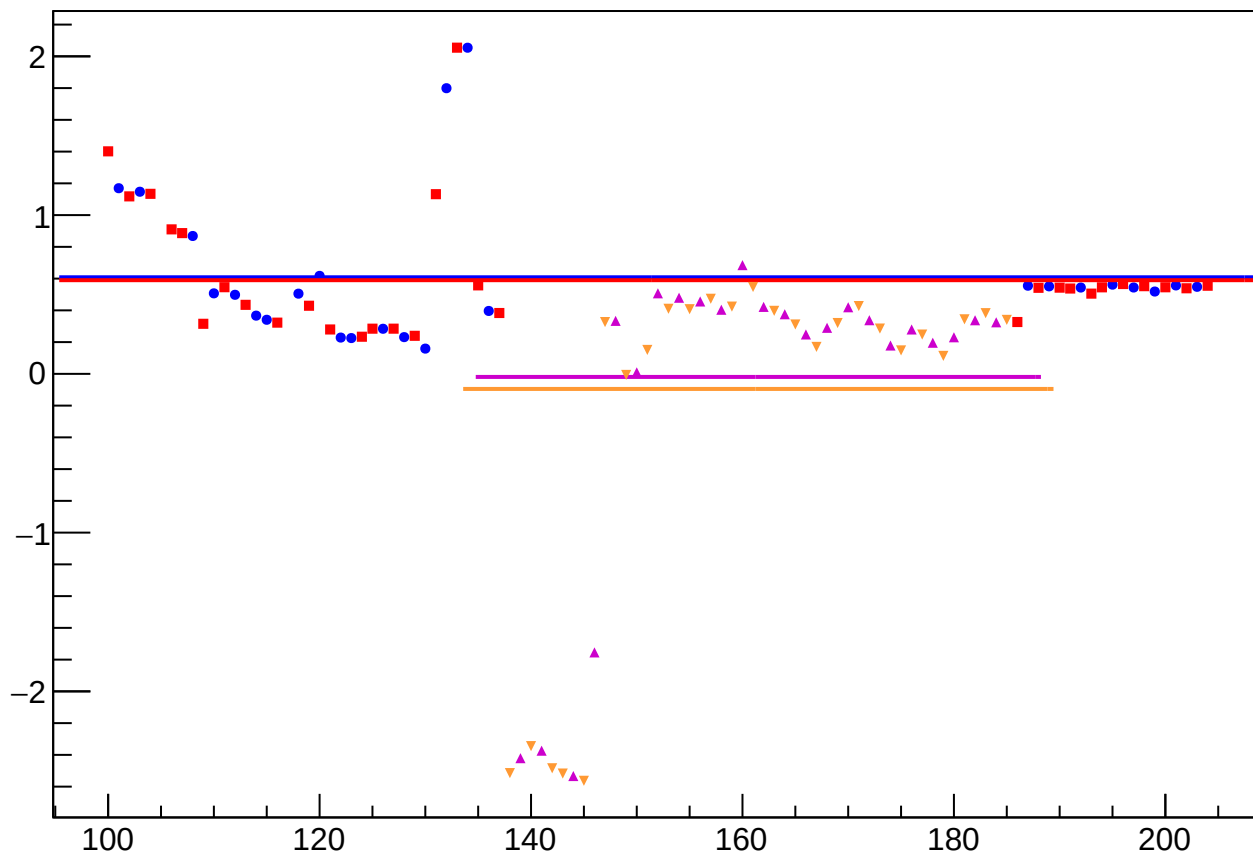
Right: 0.004+/-0.000 χ^2/NDF : 2277544.3/54

In: 0.005+/-0.000 χ^2/NDF :3404603.1/47

Out: 0.005+/-0.000 χ^2/NDF :3823383.4/54

All: 0.005+/-0.000 χ^2/NDF : 7229509.7/102

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.608 $\pm$ 0.000

χ^2 /NDF: 40440577175.4/24

Left: -0.058 $\pm$ 0.000

χ^2 /NDF: 924153662333.7/47

Left Out: -0.095 $\pm$ 0.000

χ^2 /NDF: 505606573631.9/24

Right: 0.598 $\pm$ 0.000

χ^2 /NDF: 86361893914.9/54

Right Out: 0.590 $\pm$ 0.000

χ^2 /NDF: 45803805629.9/29

In: 0.334 $\pm$ 0.000

χ^2 /NDF: 566822122039.1/47

Out: 0.322 $\pm$ 0.000

χ^2 /NDF: 698462797516.0/54

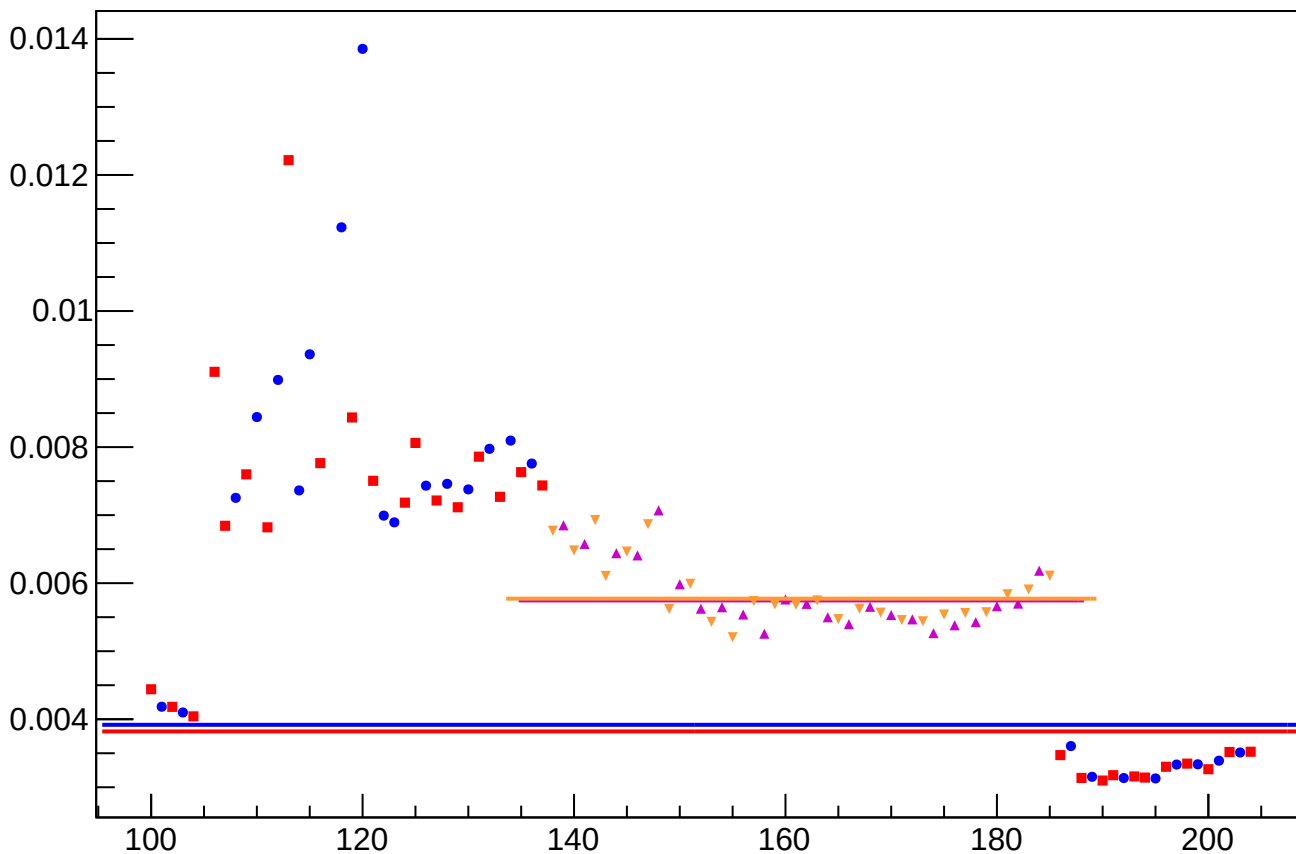
Left In: -0.019 $\pm$ 0.000

χ^2 /NDF: 417104863944.5/22

All: 0.327 $\pm$ 0.000

χ^2 /NDF: 1265370585045.0/100

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3057832.5/24

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3129545.7/29

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

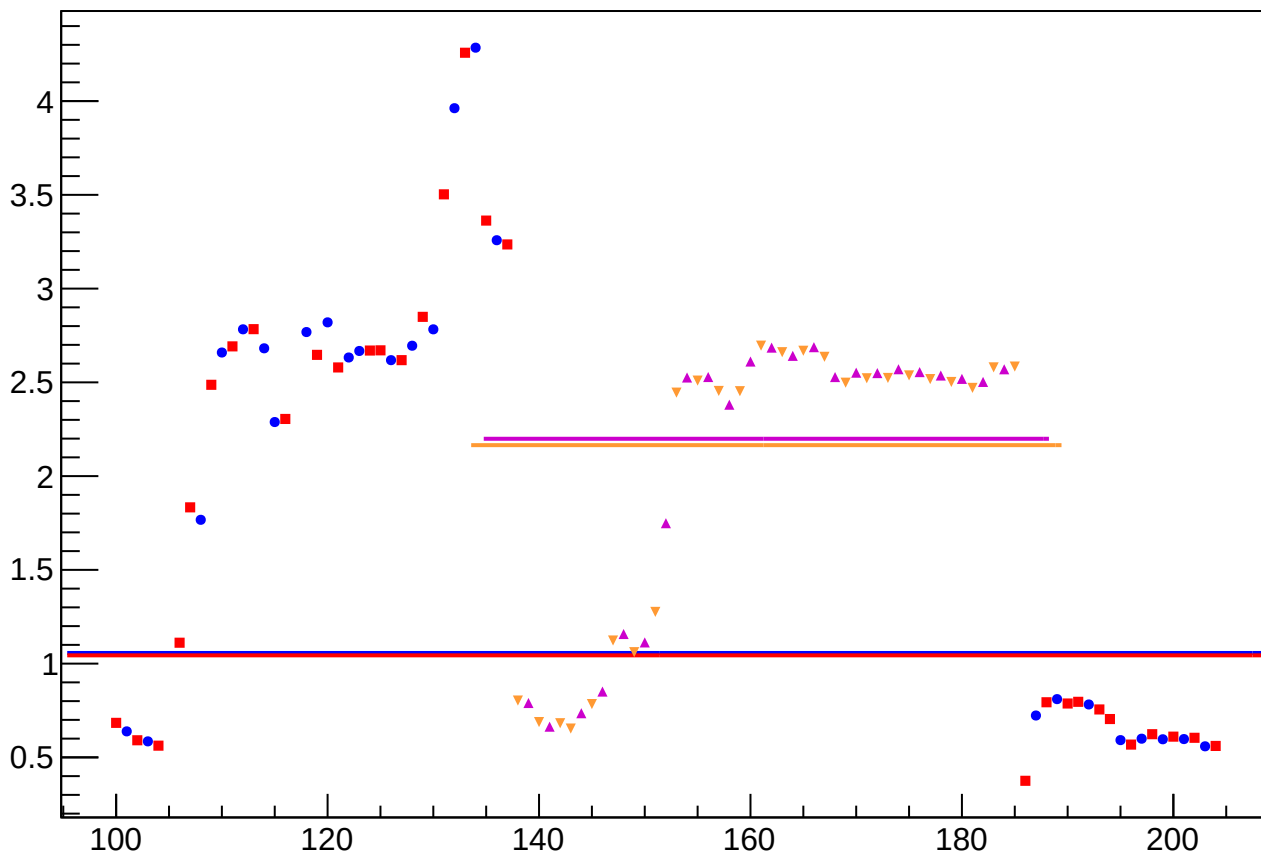
Right: 0.004+/-0.000 χ^2/NDF : 6194105.1/54

In: 0.005+/-0.000 χ^2/NDF :5116972.5/47

Out: 0.005+/-0.000 χ^2/NDF :5694317.1/54

All: 0.005+/-0.000 χ^2/NDF : 10832870.8/102

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.057 $\pm$ 0.000 χ^2 /NDF: 281426076498.4/24

Left Out: 2.165 $\pm$ 0.000 χ^2 /NDF: 292800056899.6/24

Right Out: 1.044 $\pm$ 0.000 χ^2 /NDF: 333900533721.5/29

Left In: 2.199 $\pm$ 0.000 χ^2 /NDF: 253166239065.4/22

Left: 2.182 $\pm$ 0.000 χ^2 /NDF: 546302258971.9/47

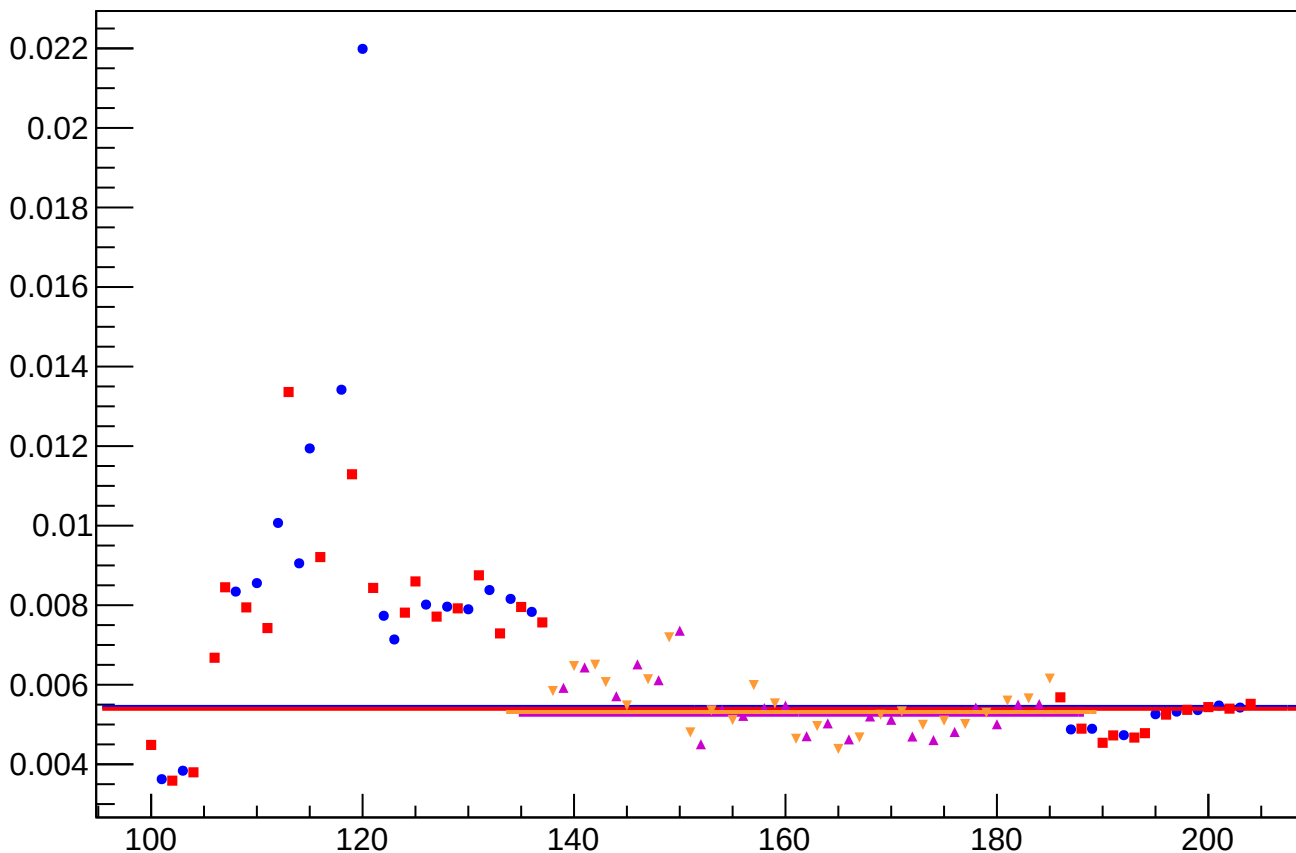
Right: 1.050 $\pm$ 0.000 χ^2 /NDF: 615356674075.8/54

In: 1.773 $\pm$ 0.000 χ^2 /NDF: 813175448283.9/47

Out: 1.700 $\pm$ 0.000 χ^2 /NDF: 932647907101.5/54

All: 1.735 $\pm$ 0.000 χ^2 /NDF: 1748347695862.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2004781.7/24

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1876854.0/29

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

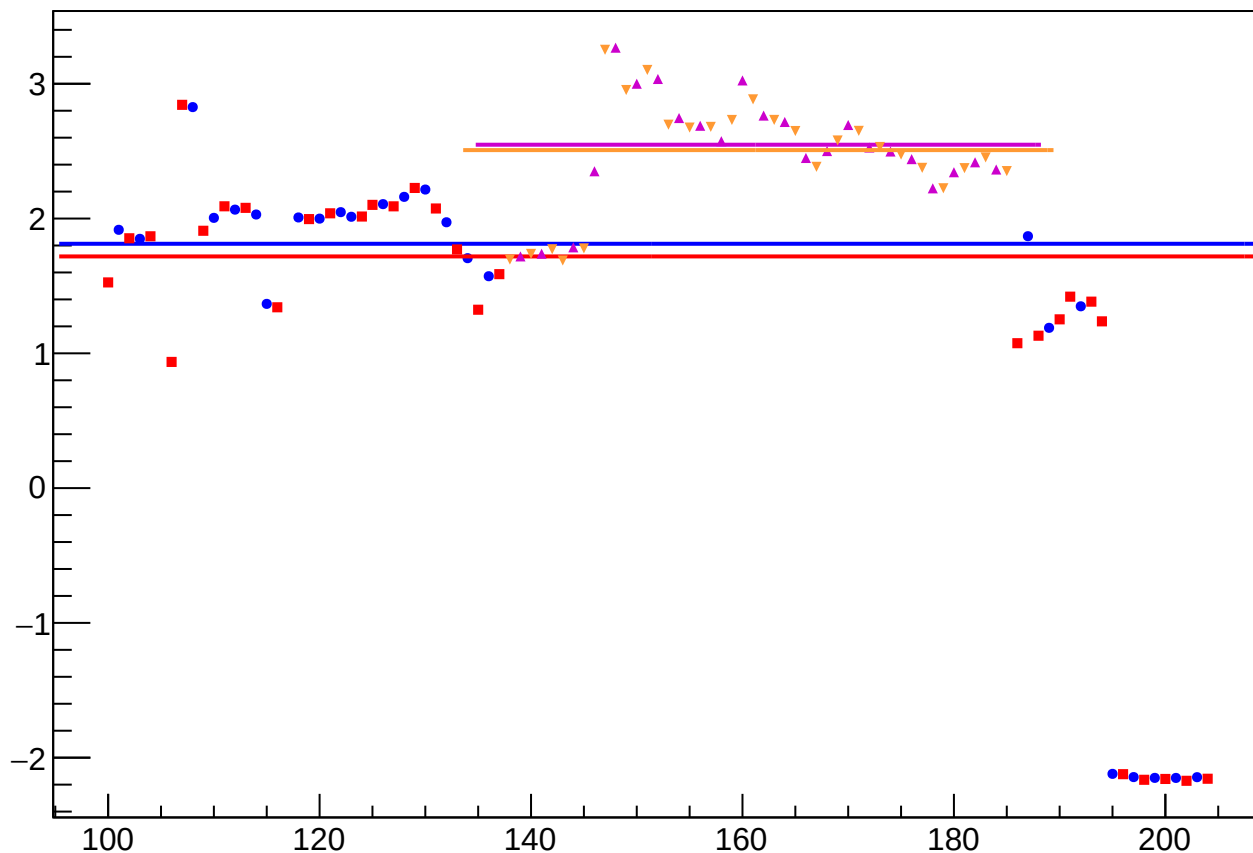
Right: 0.005+/-0.000 χ^2/NDF : 3882460.1/54

In: 0.005+/-0.000 χ^2/NDF : 2447217.6/47

Out: 0.005+/-0.000 χ^2/NDF : 2278796.7/54

All: 0.005+/-0.000 χ^2/NDF : 4726848.5/102

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.813 $\pm$ 0.000 χ^2/NDF : 101981122306.3/24

Left Out: 2.508 $\pm$ 0.000 χ^2/NDF : 52355332406.0/24

Right Out: 1.719 $\pm$ 0.000 χ^2/NDF : 106891460206.7/29

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

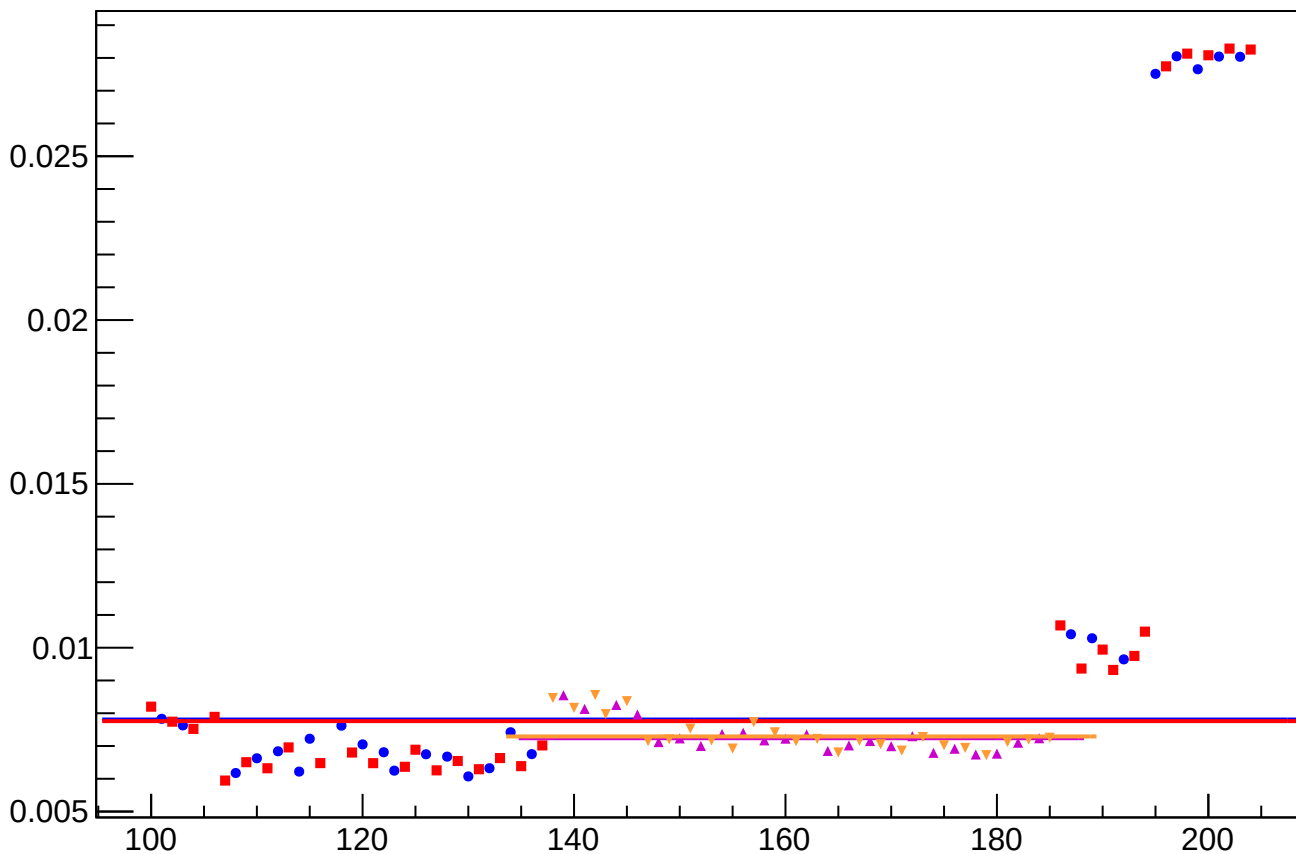
Right: 1.761 $\pm$ 0.000 χ^2/NDF : 209628926014.7/54

In: 2.305 $\pm$ 0.000 χ^2/NDF : 203962759816.6/47

Out: 2.219 $\pm$ 0.000 χ^2/NDF : 234139117910.7/54

All: 2.260 $\pm$ 0.000 χ^2/NDF : 439927992856.7

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 4612039.2/24

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 4585022.8/29

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

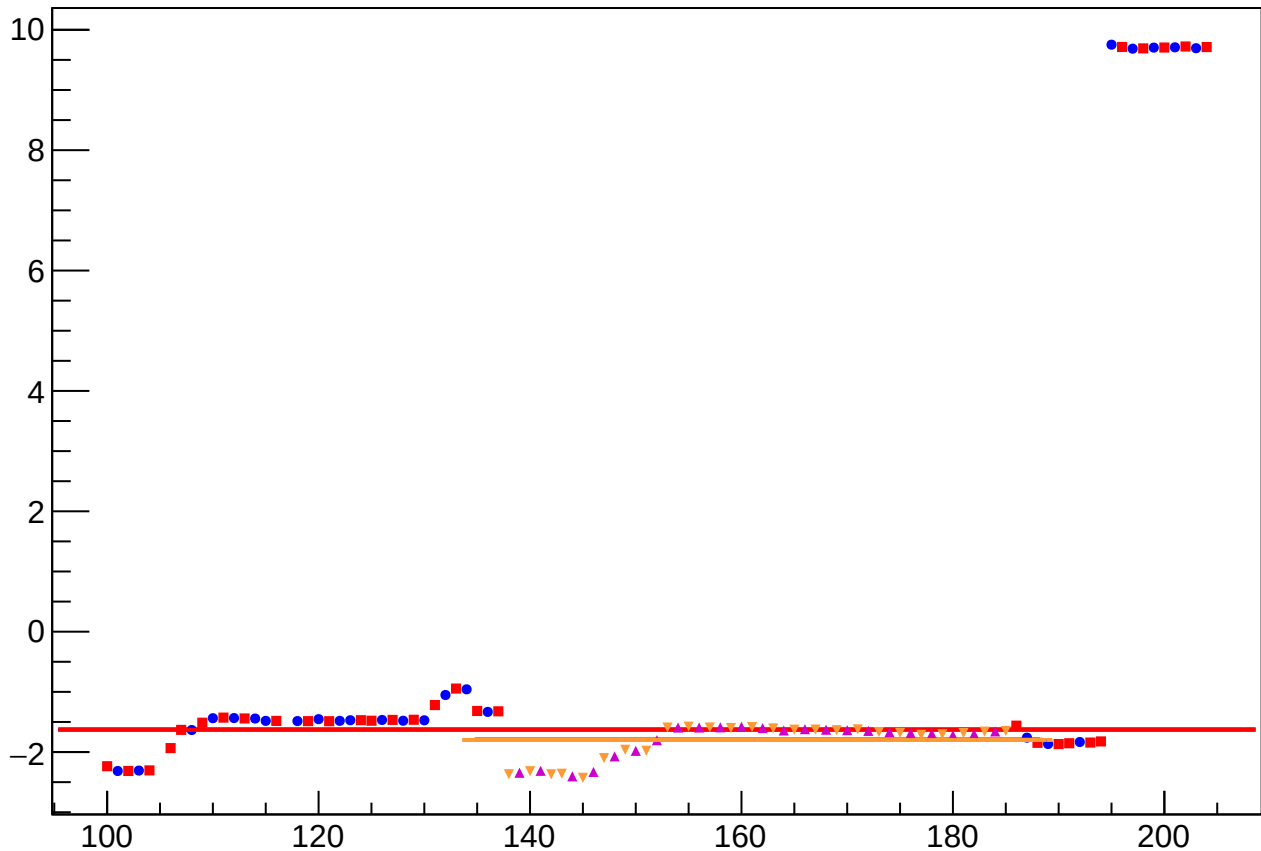
Right: 0.008+/-0.000 χ^2/NDF : 9197468.3/54

In: 0.007+/-0.000 χ^2/NDF :4805339.9/47

Out: 0.007+/-0.000 χ^2/NDF :4778447.7/54

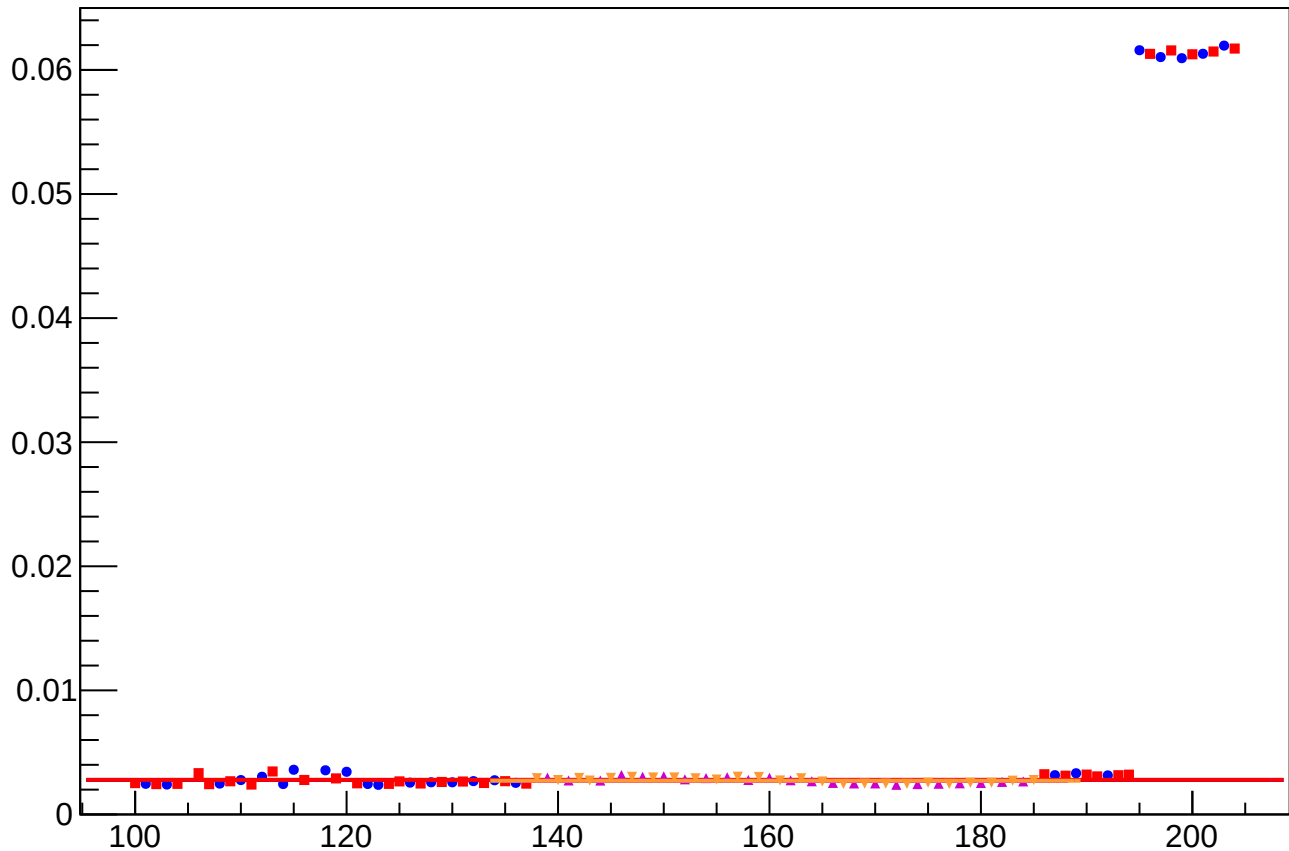
All: 0.007+/-0.000 χ^2/NDF : 9584441.9/102

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.623+/-0.000	χ^2/NDF : 283336654743.5/24	Left: -1.795+/-0.000	χ^2/NDF : 345099435201.4/47
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	Right: -1.627+/-0.000	χ^2/NDF : 566928311831.9/54
Right Out: -1.631+/-0.000	χ^2/NDF : 283560768370.5/29	In: -1.738+/-0.000	χ^2/NDF : 462913017570.9/47
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22	Out: -1.739+/-0.000	χ^2/NDF : 492602148220.4/54
		All: -1.739+/-0.000	χ^2/NDF : 955521076018.1

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 7512679.0/24

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 6940055.6/29

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

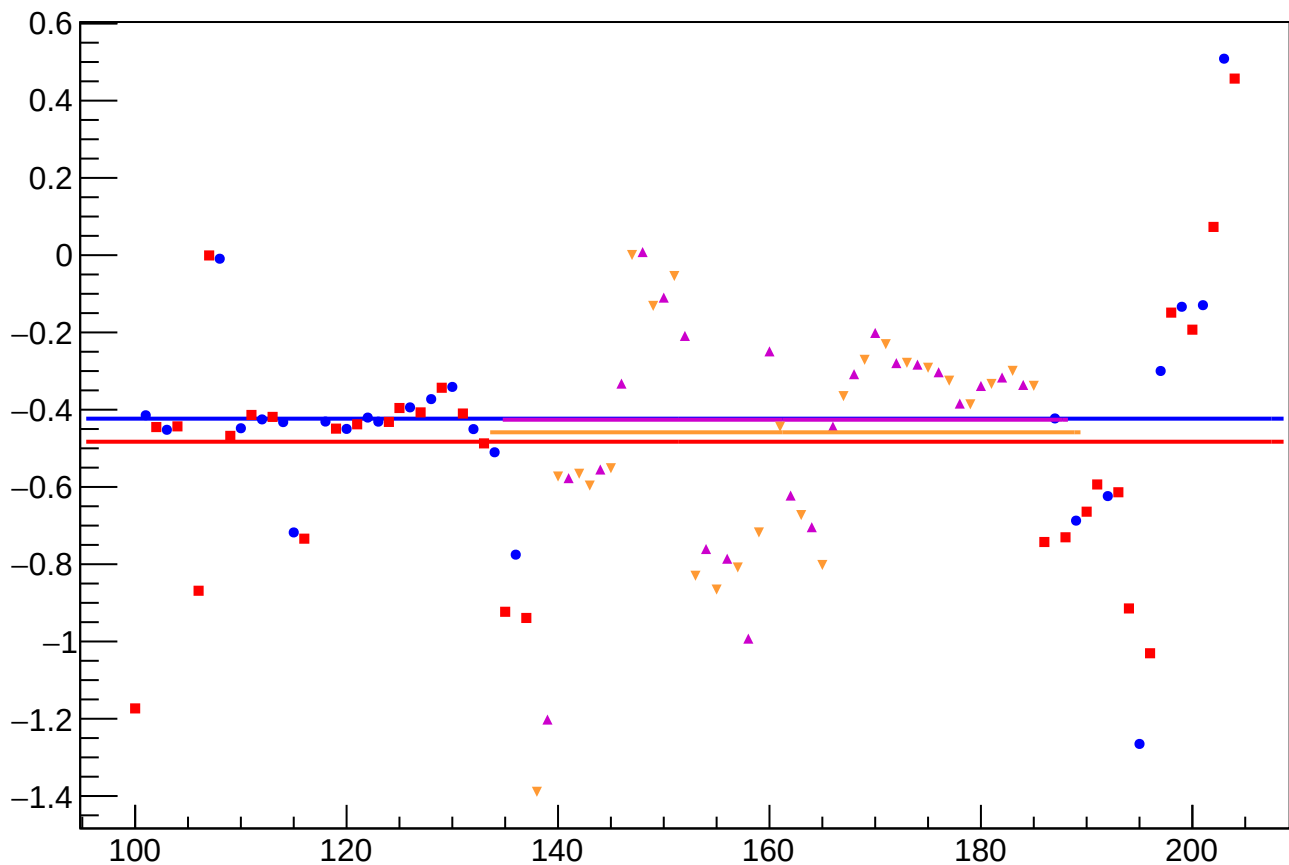
Right: 0.003+/-0.000 χ^2/NDF : 14452824.1/54

In: 0.003+/-0.000 χ^2/NDF :7741832.9/47

Out: 0.003+/-0.000 χ^2/NDF :7147952.6/54

All: 0.003+/-0.000 χ^2/NDF : 14890827.5/102

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.423 ± 0.000 $\chi^2/\text{NDF}: 6156565841.7/24$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.483 ± 0.000 $\chi^2/\text{NDF}: 7073881359.5/29$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

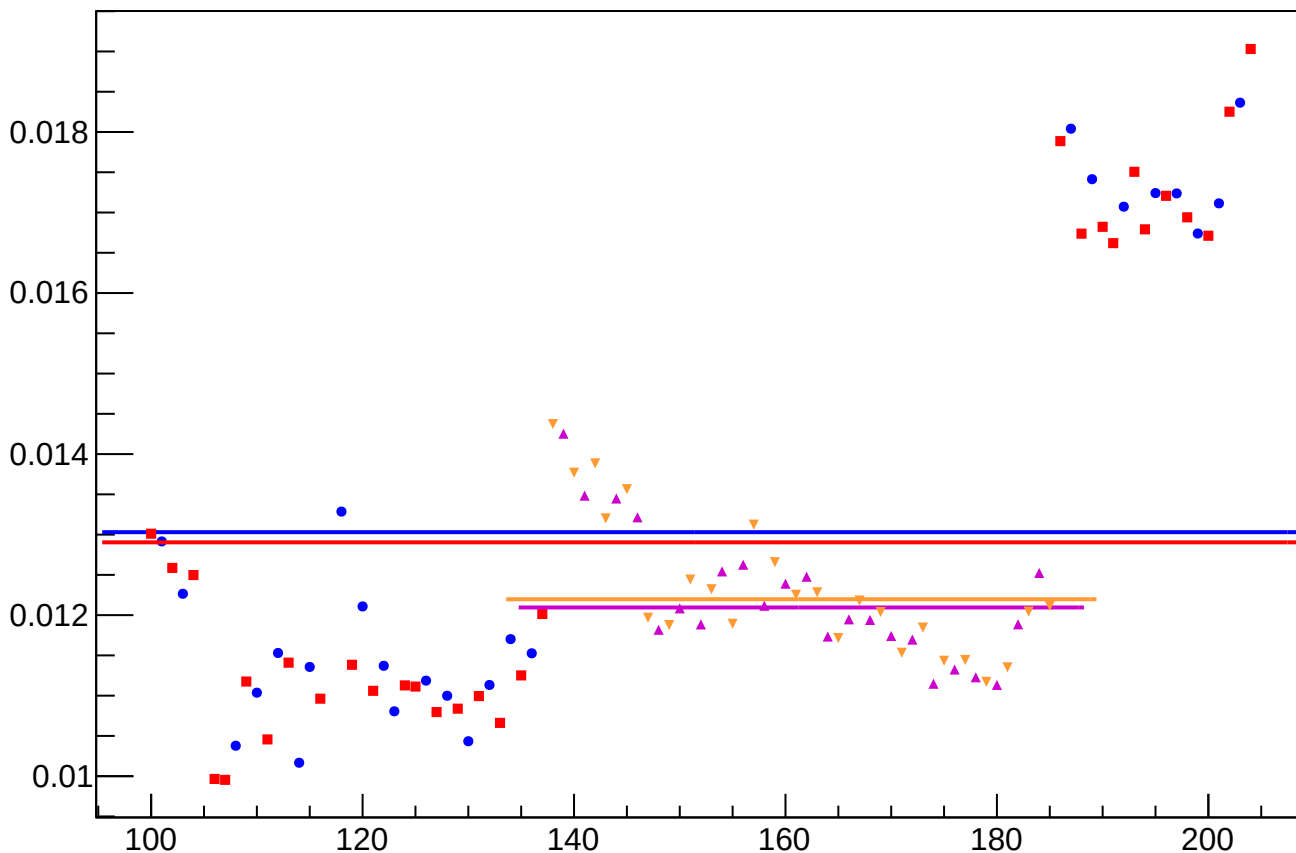
Right: -0.456 ± 0.000 $\chi^2/\text{NDF}: 13360272037.6/54$

In: -0.425 ± 0.000 $\chi^2/\text{NDF}: 14581109969.9/47$

Out: -0.468 ± 0.000 $\chi^2/\text{NDF}: 17018629849.7/54$

All: -0.448 ± 0.000 $\chi^2/\text{NDF}: 31777353947.0/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 971280.5/24

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1318877.8/29

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

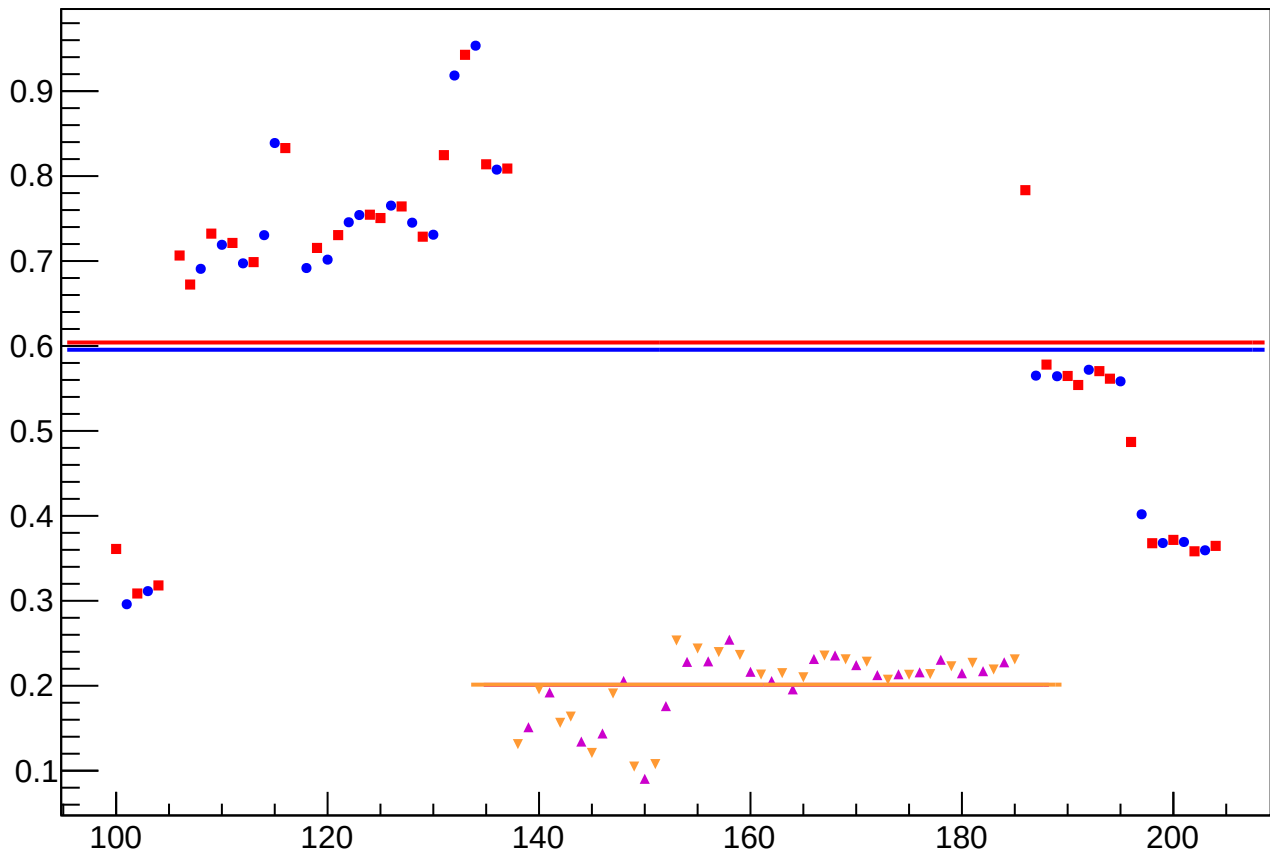
Right: 0.013+/-0.000 χ^2/NDF : 2291320.5/54

In: 0.012+/-0.000 χ^2/NDF :1172437.1/47

Out: 0.012+/-0.000 χ^2/NDF :1508204.8/54

All: 0.012+/-0.000 χ^2/NDF : 2680922.1/102

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.596 $\pm$ 0.000 χ^2 /NDF: 62236698823.6/24

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.604 $\pm$ 0.000 χ^2 /NDF: 62734371467.9/29

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

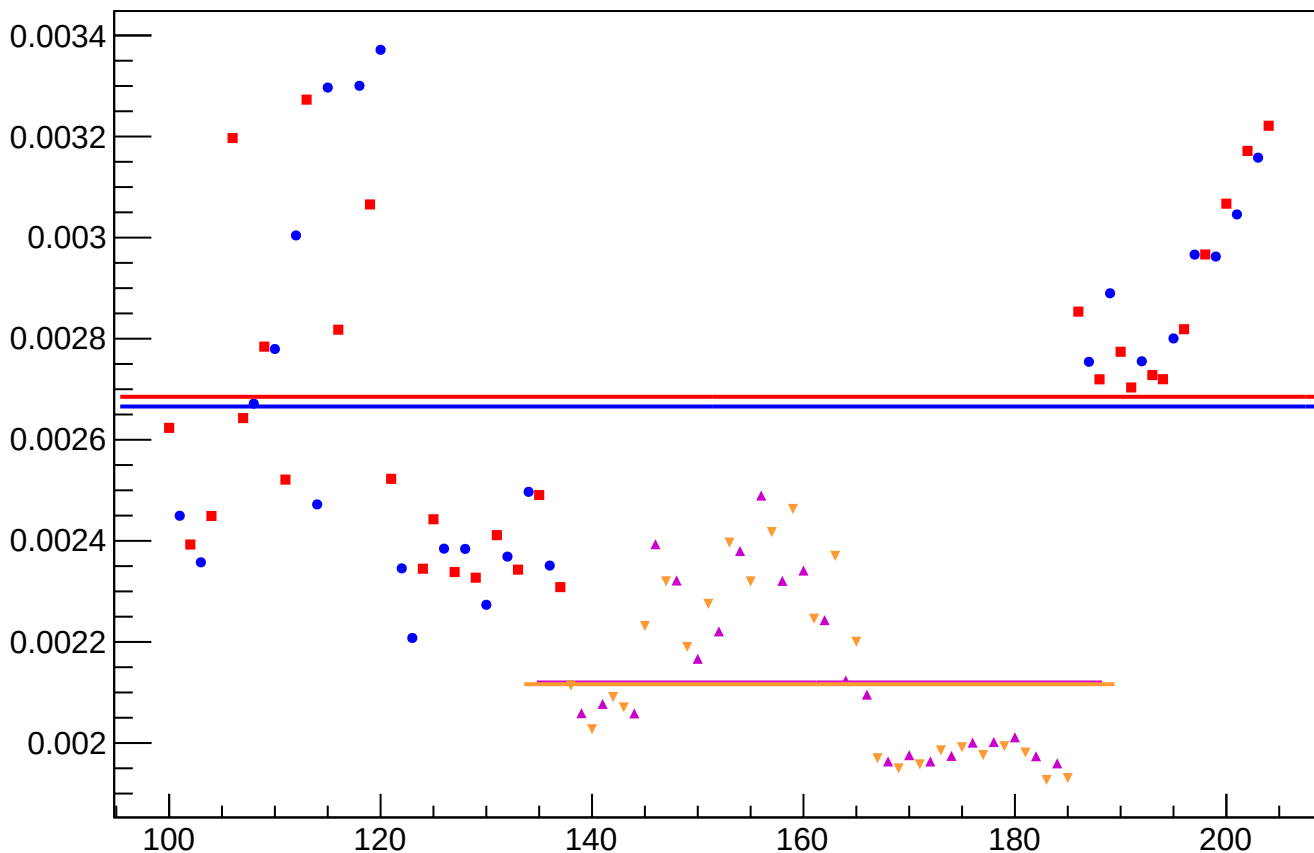
Right: 0.600 $\pm$ 0.000 χ^2 /NDF: 125035001304.4/54

In: 0.320 $\pm$ 0.000 χ^2 /NDF: 246428351472.6/47

Out: 0.329 $\pm$ 0.000 χ^2 /NDF: 278020336205.4/54

All: 0.325 $\pm$ 0.000 χ^2 /NDF: 524688904515.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 330289.2/24

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 288201.6/29

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

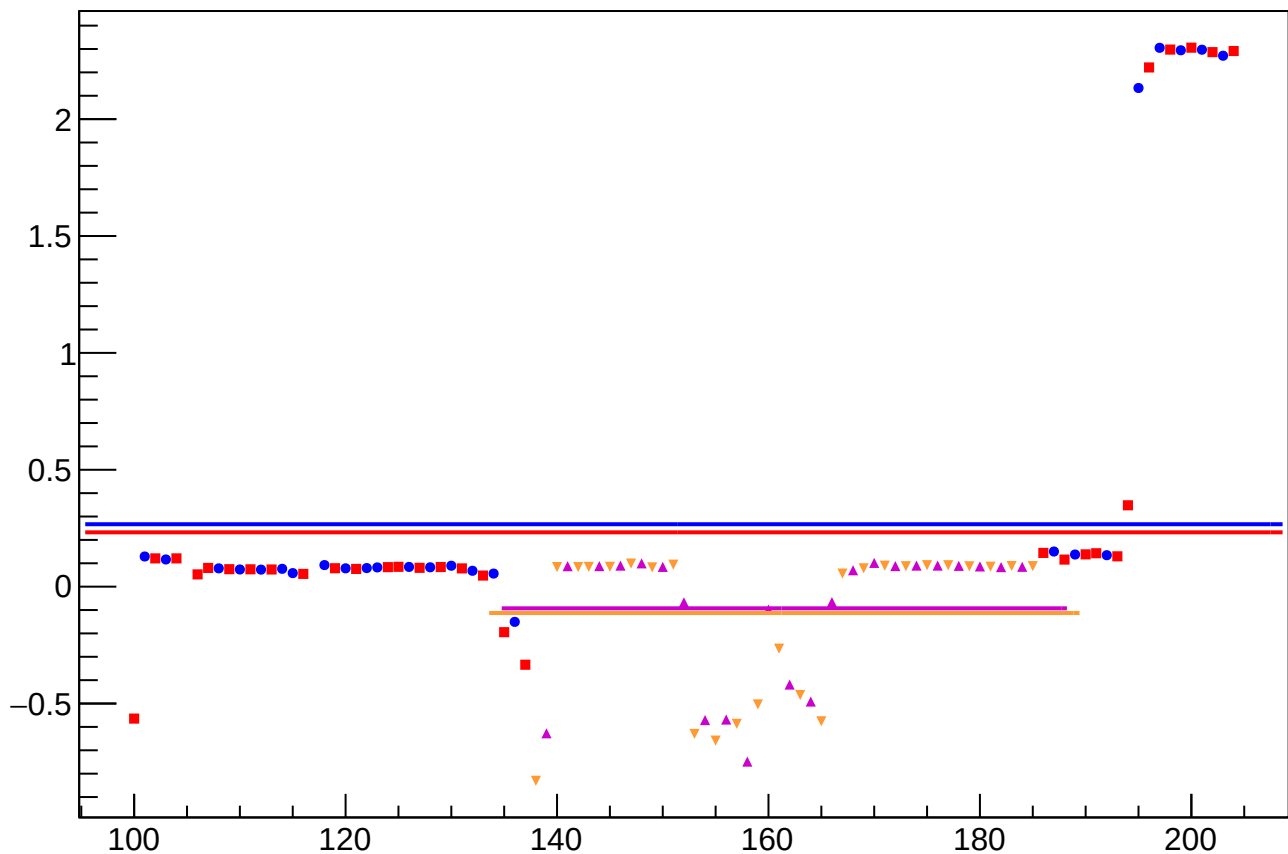
Right: 0.003+/-0.000 χ^2/NDF : 619138.3/54

In: 0.002+/-0.000 χ^2/NDF :1203526.7/47

Out: 0.002+/-0.000 χ^2/NDF :1342702.6/54

All: 0.002+/-0.000 χ^2/NDF : 2547116.8/102

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.267+/-0.000

χ^2/NDF : 33657793247.1/24

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.248+/-0.000

χ^2/NDF : 68243446028.4/54

Right Out: 0.232+/-0.000

χ^2/NDF : 34532361999.7/29

In: 0.040+/-0.000

χ^2/NDF : 51319786159.1/47

Out: 0.026+/-0.000

χ^2/NDF : 55158183023.0/54

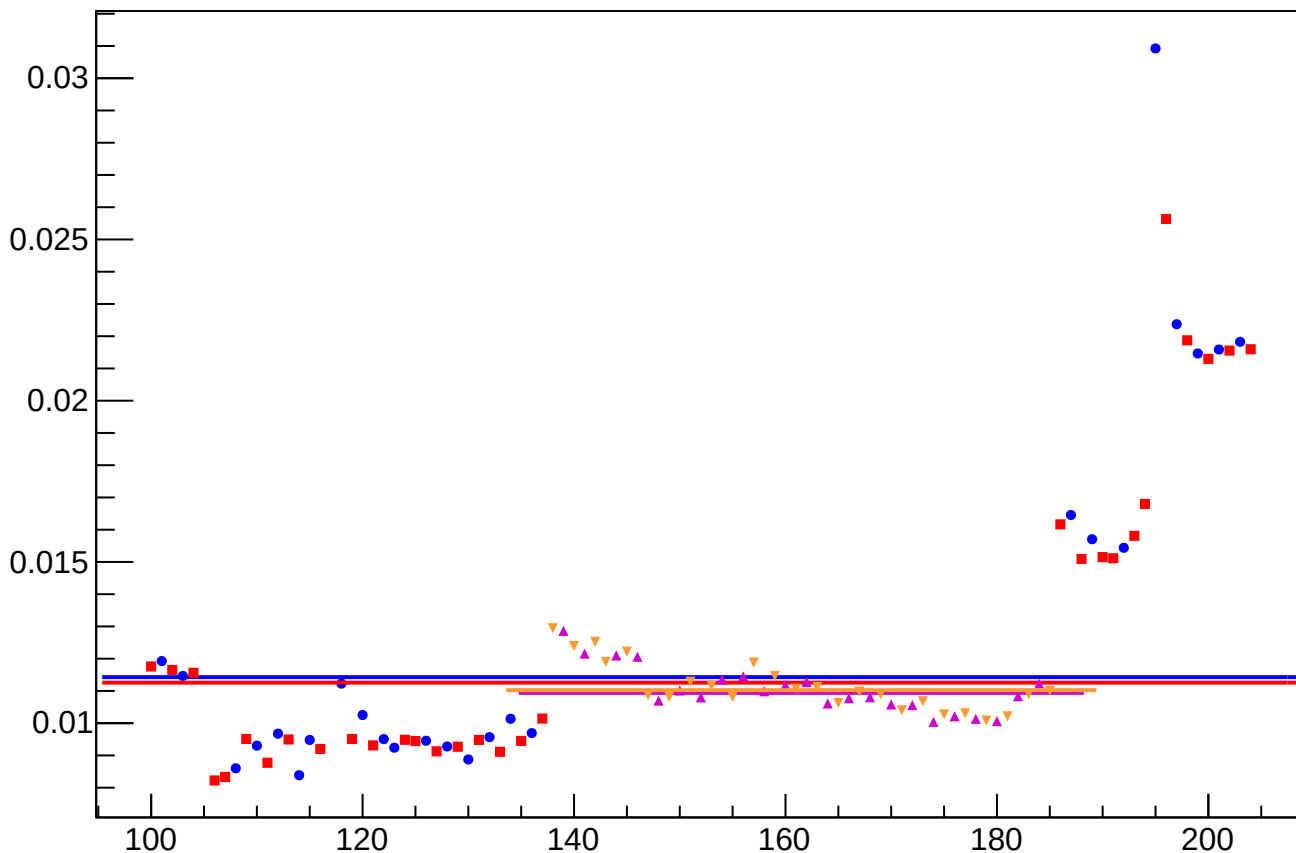
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.033+/-0.000

χ^2/NDF : 106498491464.5

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2785877.1/24

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2961050.8/29

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

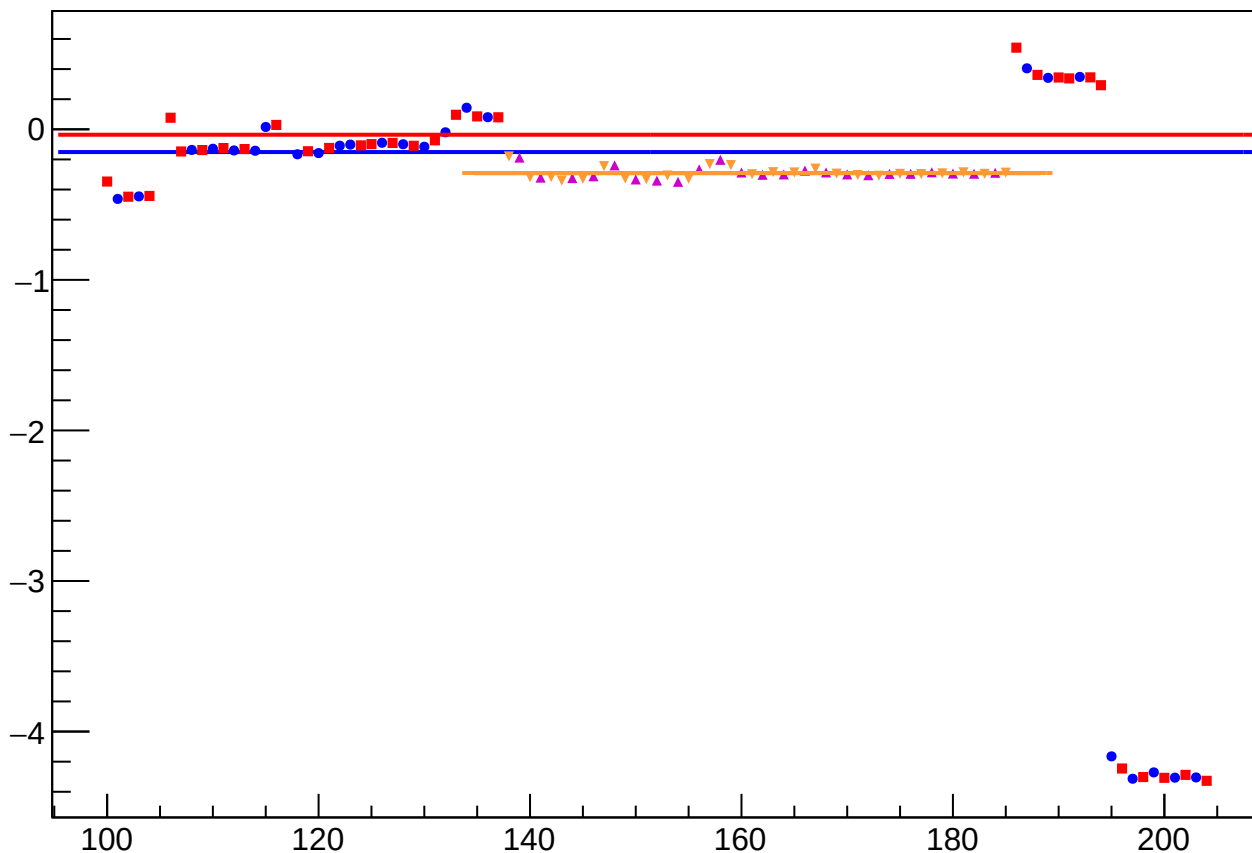
Right: 0.011+/-0.000 χ^2/NDF : 5749485.3/54

In: 0.011+/-0.000 χ^2/NDF :2939027.0/47

Out: 0.011+/-0.000 χ^2/NDF :3108939.3/54

All: 0.011+/-0.000 χ^2/NDF : 6047967.0/102

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Left: -0.291 +/- 0.000 χ^2/NDF : 6003615293.4/47
 Right: -0.087 +/- 0.000 χ^2/NDF : 471340638400.4/54
 In: -0.269 +/- 0.000 χ^2/NDF : 233904278034.5/47
 Out: -0.244 +/- 0.000 χ^2/NDF : 275152693684.4/54
 All: -0.256 +/- 0.000 χ^2/NDF : 509897264060.0

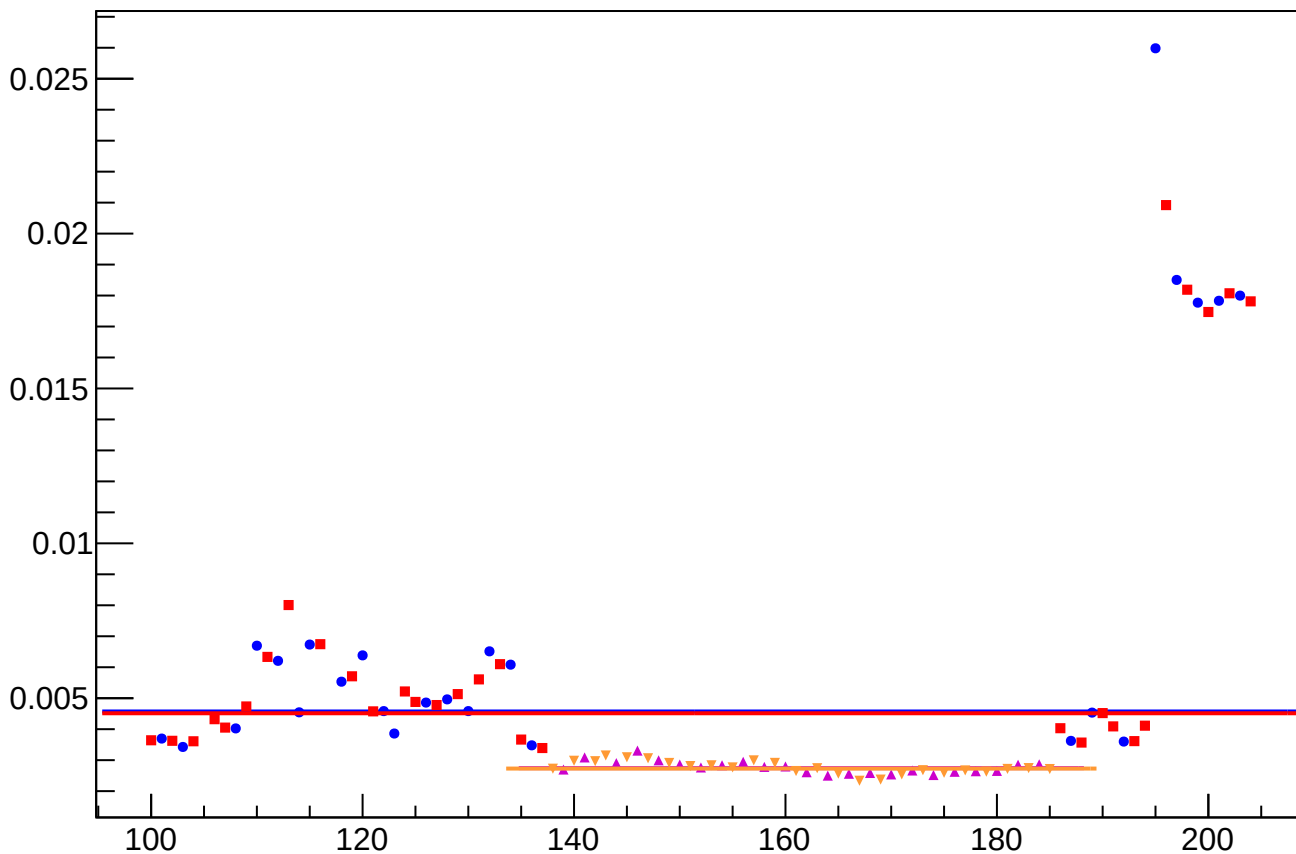
Right In: -0.151 +/- 0.000 χ^2/NDF : 223849752390.3/24

Left Out: -0.290 +/- 0.000 χ^2/NDF : 2877519093.0/24

Right Out: -0.036 +/- 0.000 χ^2/NDF : 244380886853.9/29

Left In: -0.291 +/- 0.000 χ^2/NDF : 3125402243.3/22

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 5428696.8/24

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5011400.4/29

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

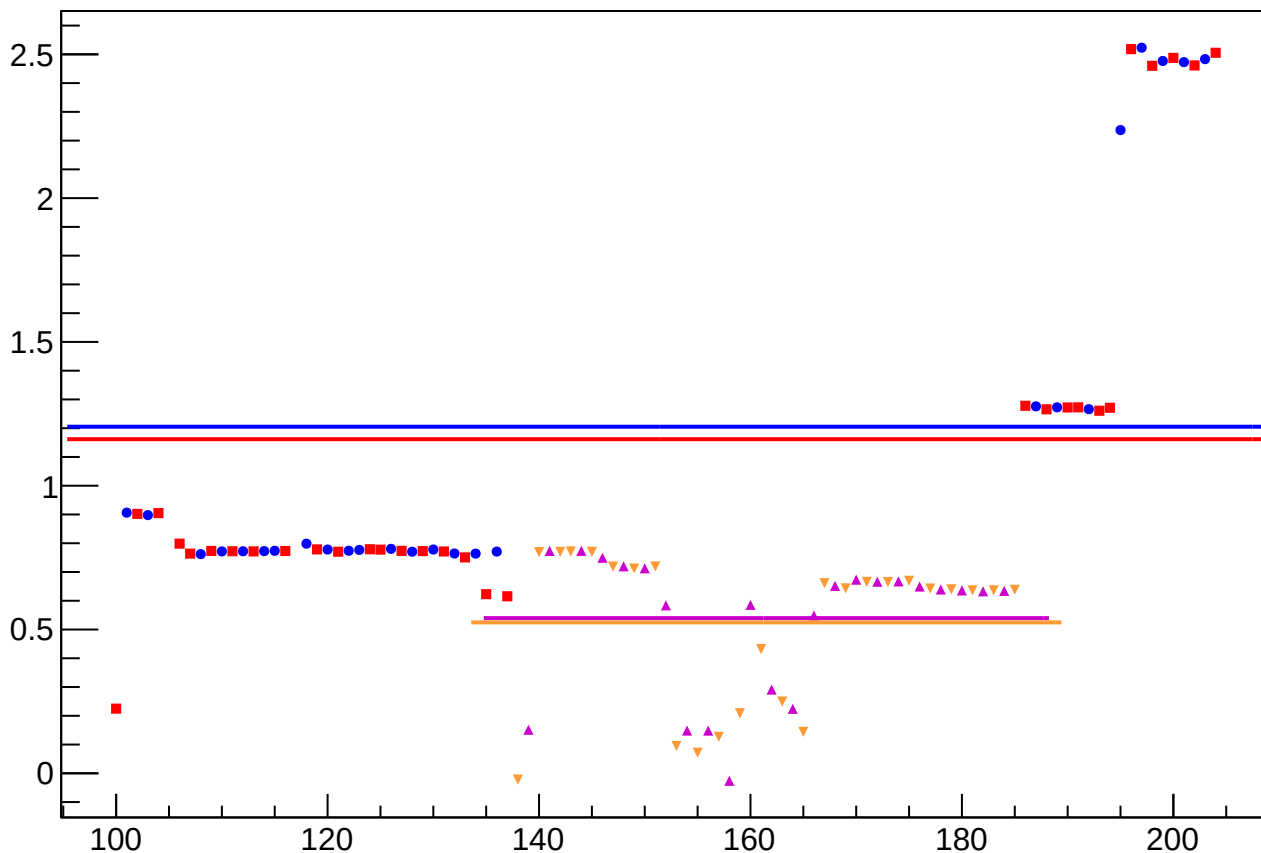
Right: 0.005+/-0.000 χ^2/NDF : 10441650.4/54

In: 0.003+/-0.000 χ^2/NDF :7945635.2/47

Out: 0.003+/-0.000 χ^2/NDF :7967976.8/54

All: 0.003+/-0.000 χ^2/NDF : 15914516.7/102

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.205+/-0.000

χ^2/NDF : 37234723279.7/24

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.181+/-0.000

χ^2/NDF : 77731284667.3/54

Right Out: 1.162+/-0.000

χ^2/NDF : 40416434615.6/29

In: 0.770+/-0.000

χ^2/NDF : 67496641483.7/47

Out: 0.768+/-0.000

χ^2/NDF : 73704888533.6/54

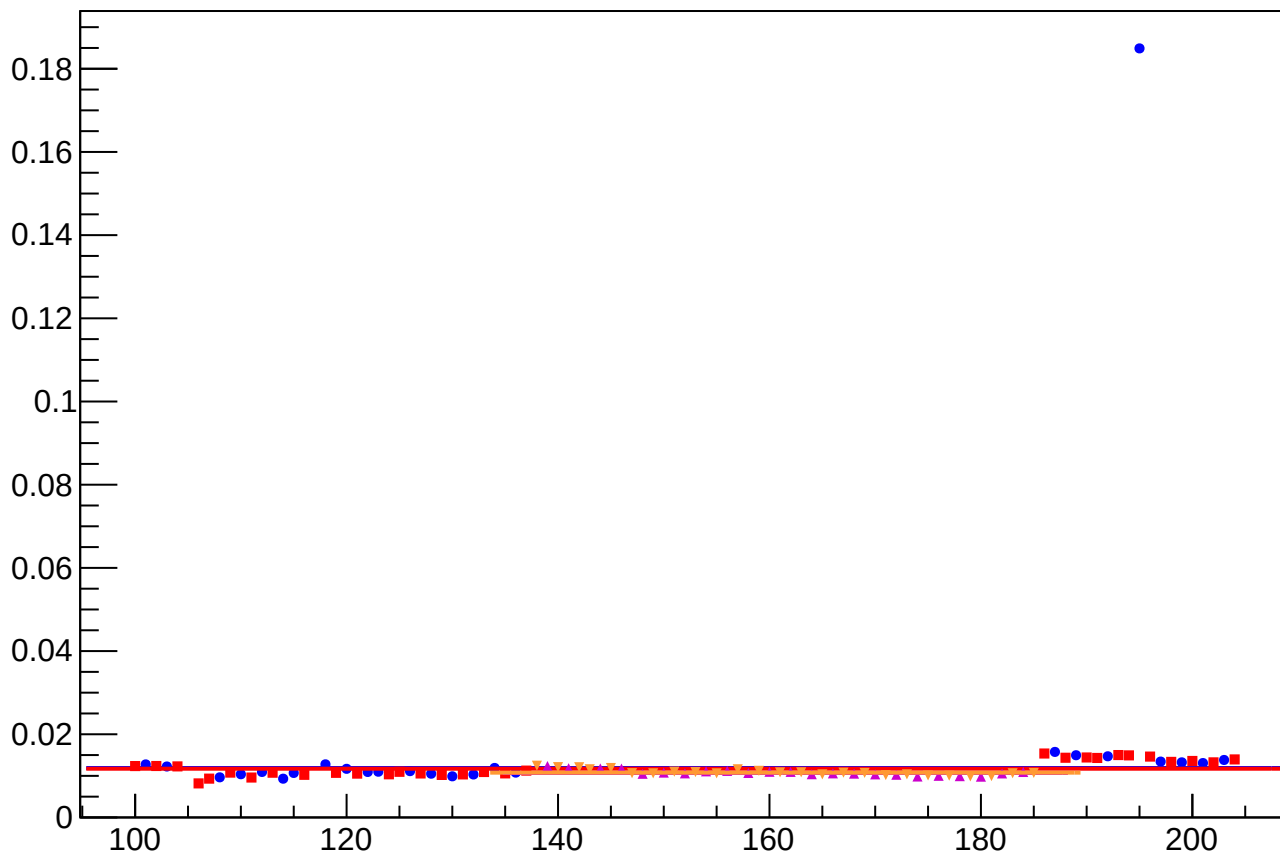
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.769+/-0.000

χ^2/NDF : 141202005590.5

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1863485.1/24

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 708291.3/29

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

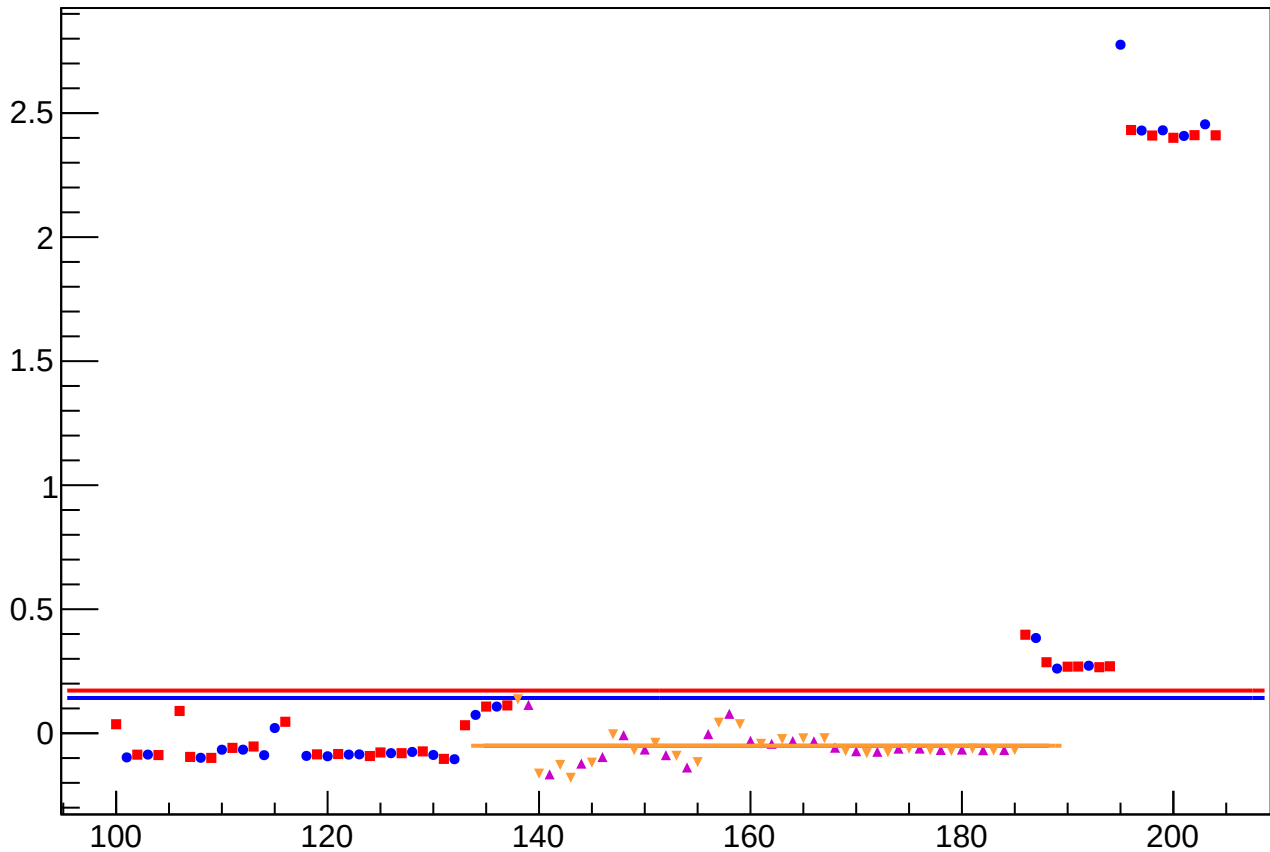
Right: 0.012+/-0.000 χ^2/NDF : 2573976.3/54

In: 0.011+/-0.000 χ^2/NDF :2125714.7/47

Out: 0.011+/-0.000 χ^2/NDF :945249.4/54

All: 0.011+/-0.000 χ^2/NDF : 3071161.6/102

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.142 $\pm$ 0.000 χ^2 /NDF: 109378136567.8/24

Left Out: -0.050 $\pm$ 0.000 χ^2 /NDF: 7271496478.6/24

Right Out: 0.172 $\pm$ 0.000 χ^2 /NDF: 108655171767.4/29

Left In: -0.051 $\pm$ 0.000 χ^2 /NDF: 6128769990.8/22

Left: -0.050 $\pm$ 0.000 χ^2 /NDF: 13400329490.2/47

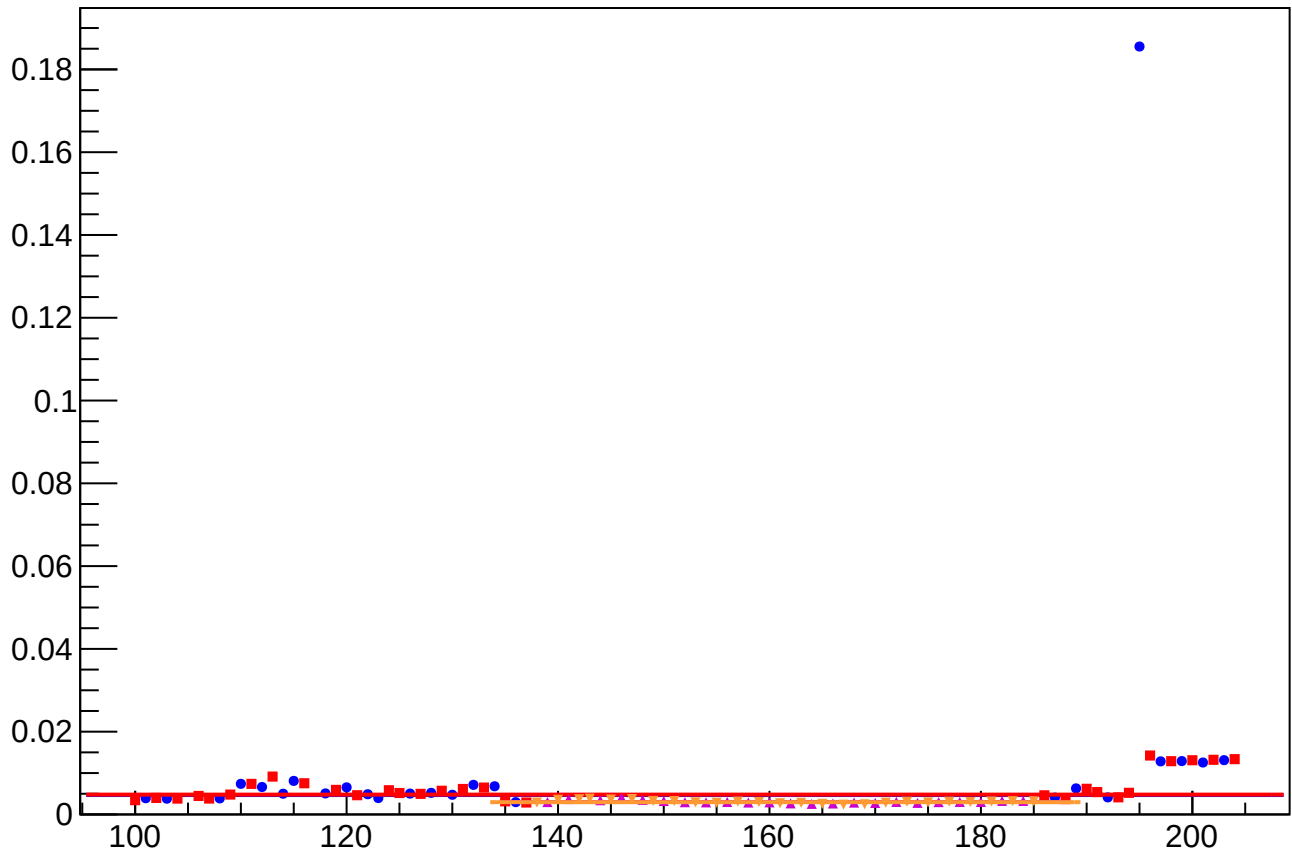
Right: 0.158 $\pm$ 0.000 χ^2 /NDF: 218222412847.9/54

In: -0.016 $\pm$ 0.000 χ^2 /NDF: 127457245381.5/47

Out: -0.008 $\pm$ 0.000 χ^2 /NDF: 134285249463.6/54

All: -0.012 $\pm$ 0.000 χ^2 /NDF: 261815043481.3

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 5147454.9/24

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 3872213.3/29

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

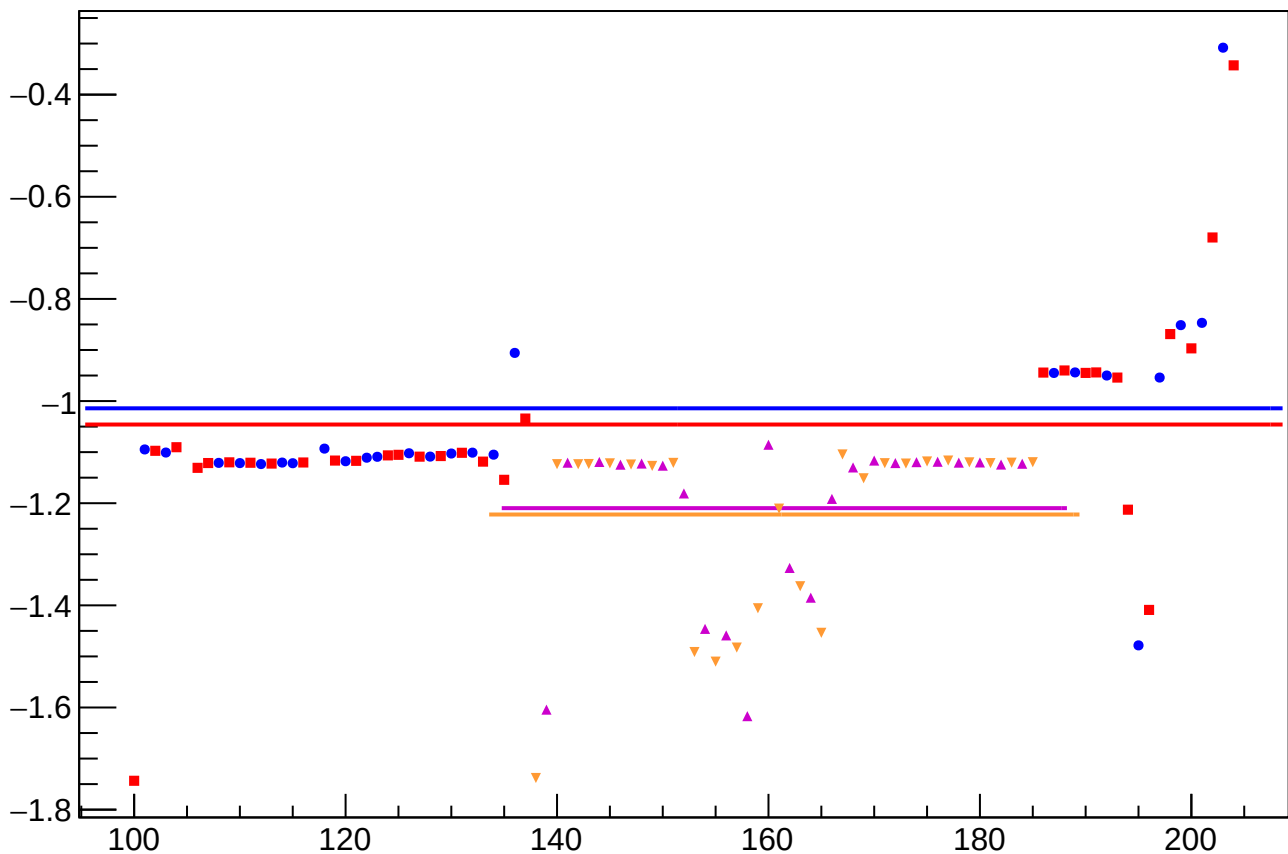
Right: 0.005+/-0.000 χ^2/NDF : 9023959.3/54

In: 0.003+/-0.000 χ^2/NDF : 7300931.4/47

Out: 0.003+/-0.000 χ^2/NDF : 6843280.0/54

All: 0.003+/-0.000 χ^2/NDF : 14144264.0/102

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.014+/-0.000 χ^2/NDF : 3840233488.0/24

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.046+/-0.000 χ^2/NDF : 3705379971.3/29

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

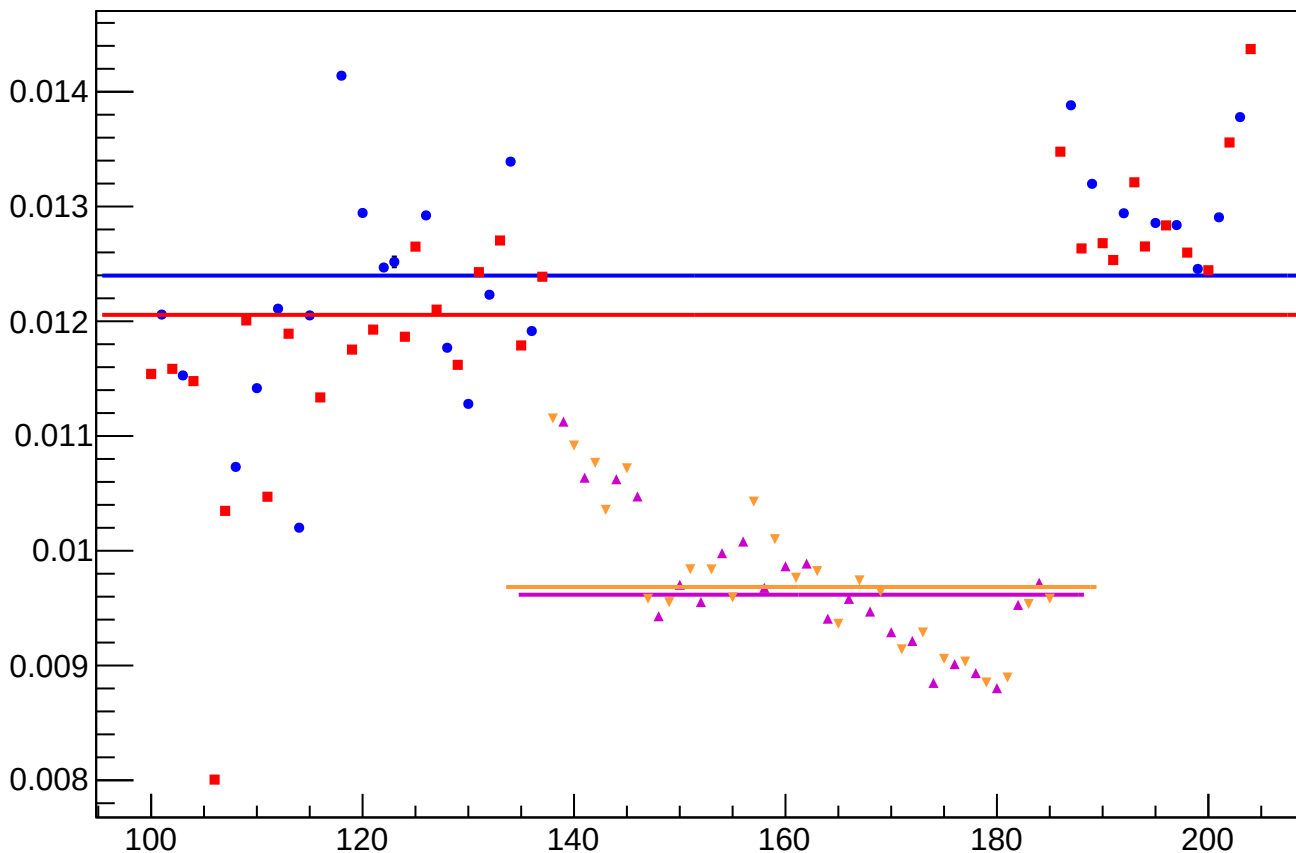
Right: -1.032+/-0.000 χ^2/NDF : 7588279033.5/54

In: -1.151+/-0.000 χ^2/NDF : 10404544643.6/47

Out: -1.164+/-0.000 χ^2/NDF : 10940478378.7/54

All: -1.158+/-0.000 χ^2/NDF : 21364608497.3/100

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 105641.6/24

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 288595.3/29

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

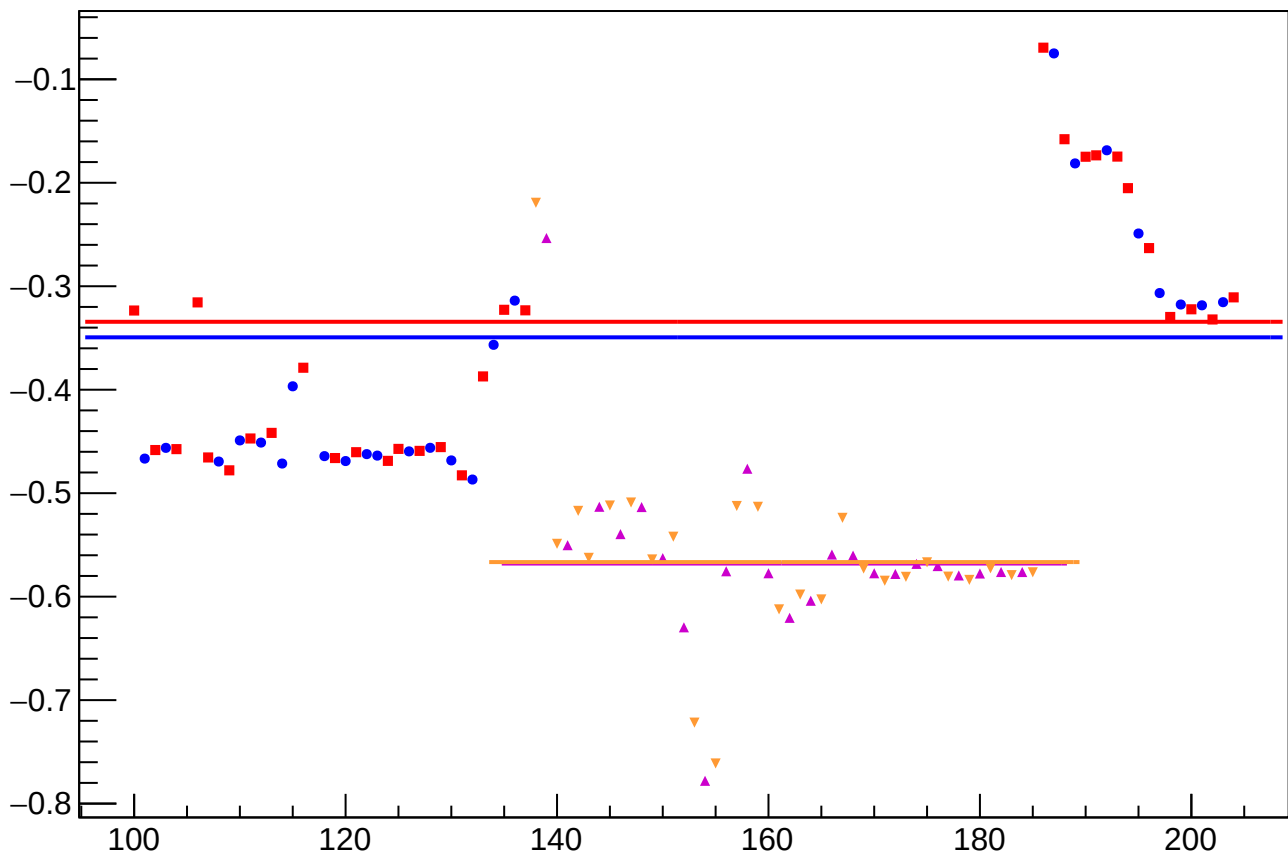
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 404167.5/54

In: 0.010 $\pm$ 0.000 χ^2 /NDF:1060164.6/47

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:1131866.1/54

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 2192247.1/102

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.349+/-0.000 χ^2/NDF : 7753570159.3/24

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.334+/-0.000 χ^2/NDF : 10367100091.5/29

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

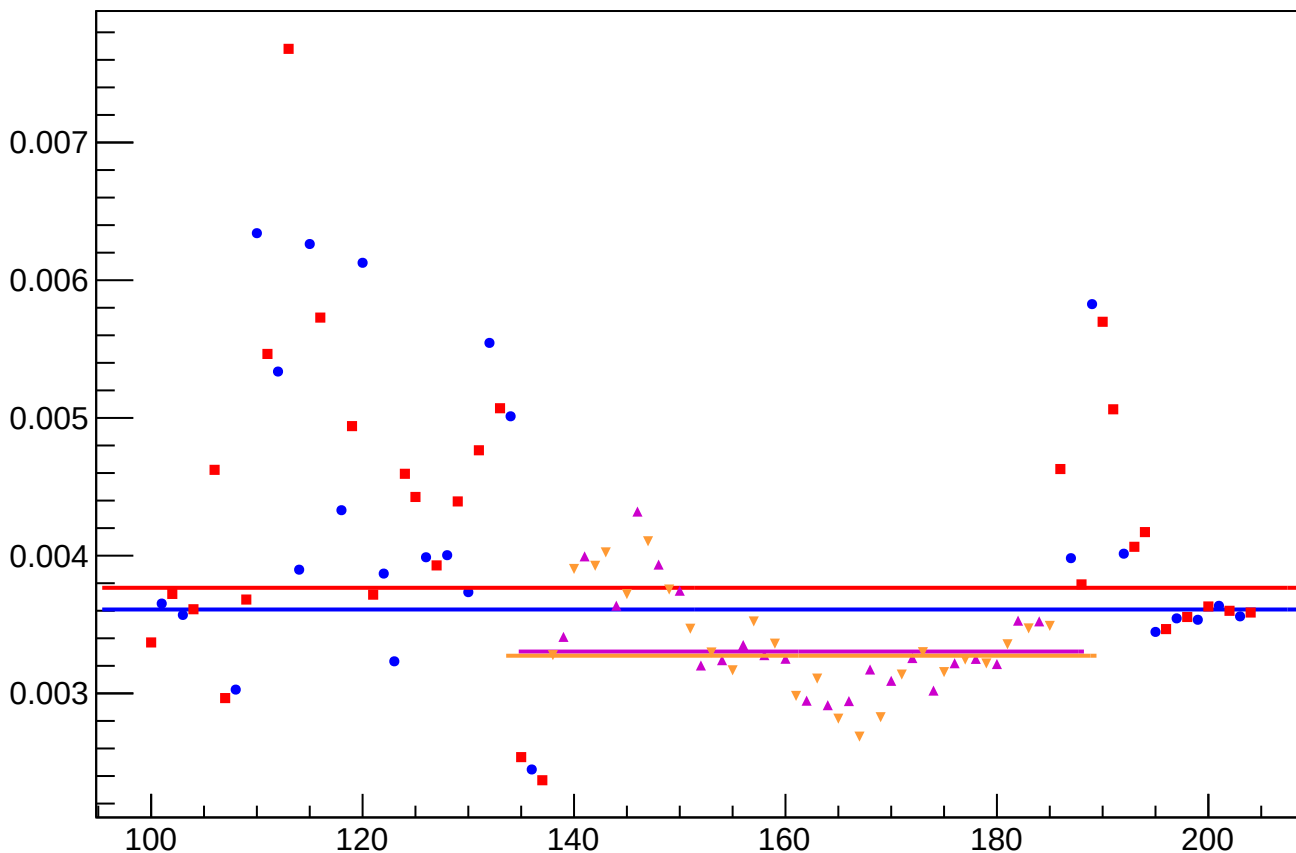
Right: -0.342+/-0.000 χ^2/NDF : 18216784637.2/54

In: -0.490+/-0.000 χ^2/NDF : 43420800351.9/47

Out: -0.484+/-0.000 χ^2/NDF : 54466871565.4/54

All: -0.487+/-0.000 χ^2/NDF : 97931468905.8/100

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 993092.0/24

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1064084.5/29

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

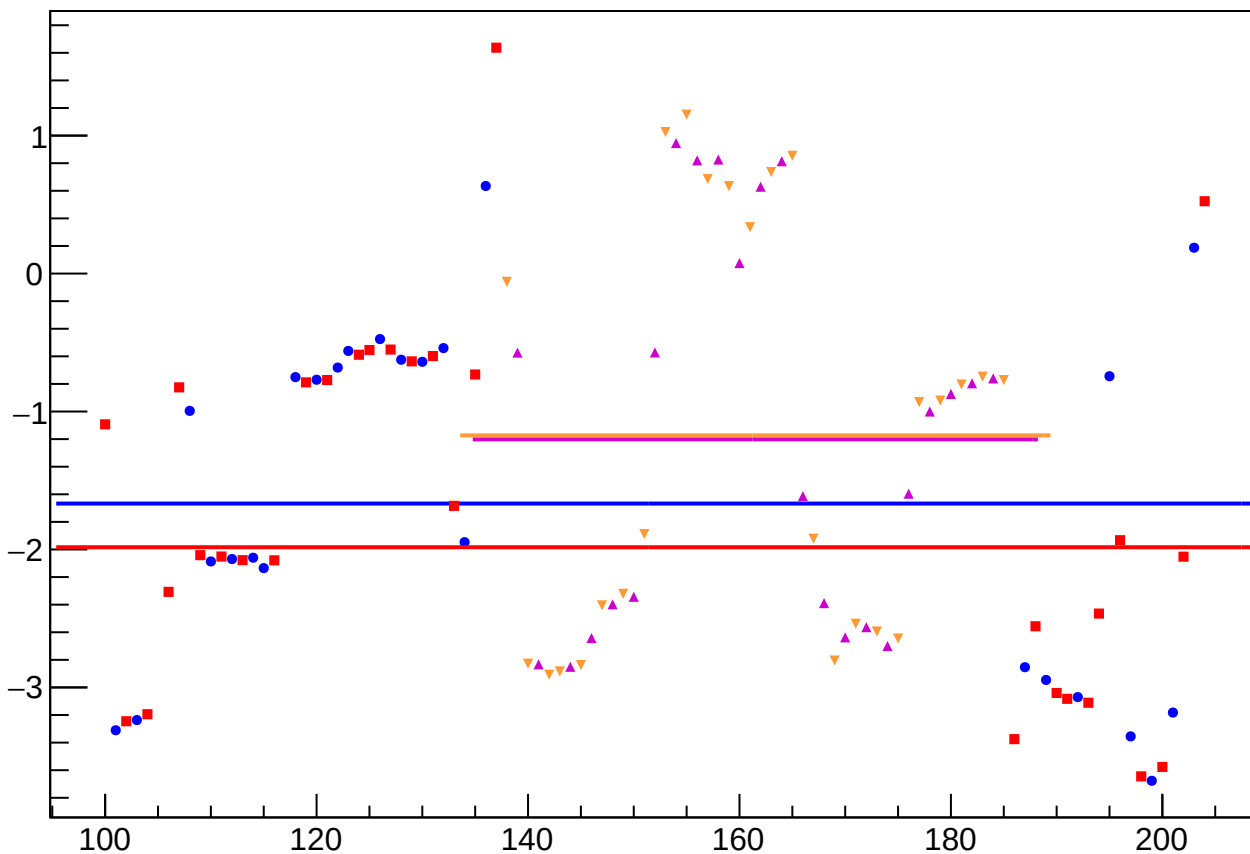
Right: 0.004+/-0.000 χ^2/NDF : 2078295.9/54

In: 0.003+/-0.000 χ^2/NDF : 1377523.7/47

Out: 0.003+/-0.000 χ^2/NDF : 1736166.4/54

All: 0.003+/-0.000 χ^2/NDF : 3116828.4/102

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.667 ± 0.000 $\chi^2/\text{NDF}: 4465716066.3/24$

Left Out: -1.173 ± 0.000 $\chi^2/\text{NDF}: 6882684653.2/24$

Right Out: -1.984 ± 0.000 $\chi^2/\text{NDF}: 3878689660.6/29$

Left In: -1.202 ± 0.000 $\chi^2/\text{NDF}: 5606782515.9/22$

Left: -1.187 ± 0.000 $\chi^2/\text{NDF}: 12490828303.3/47$

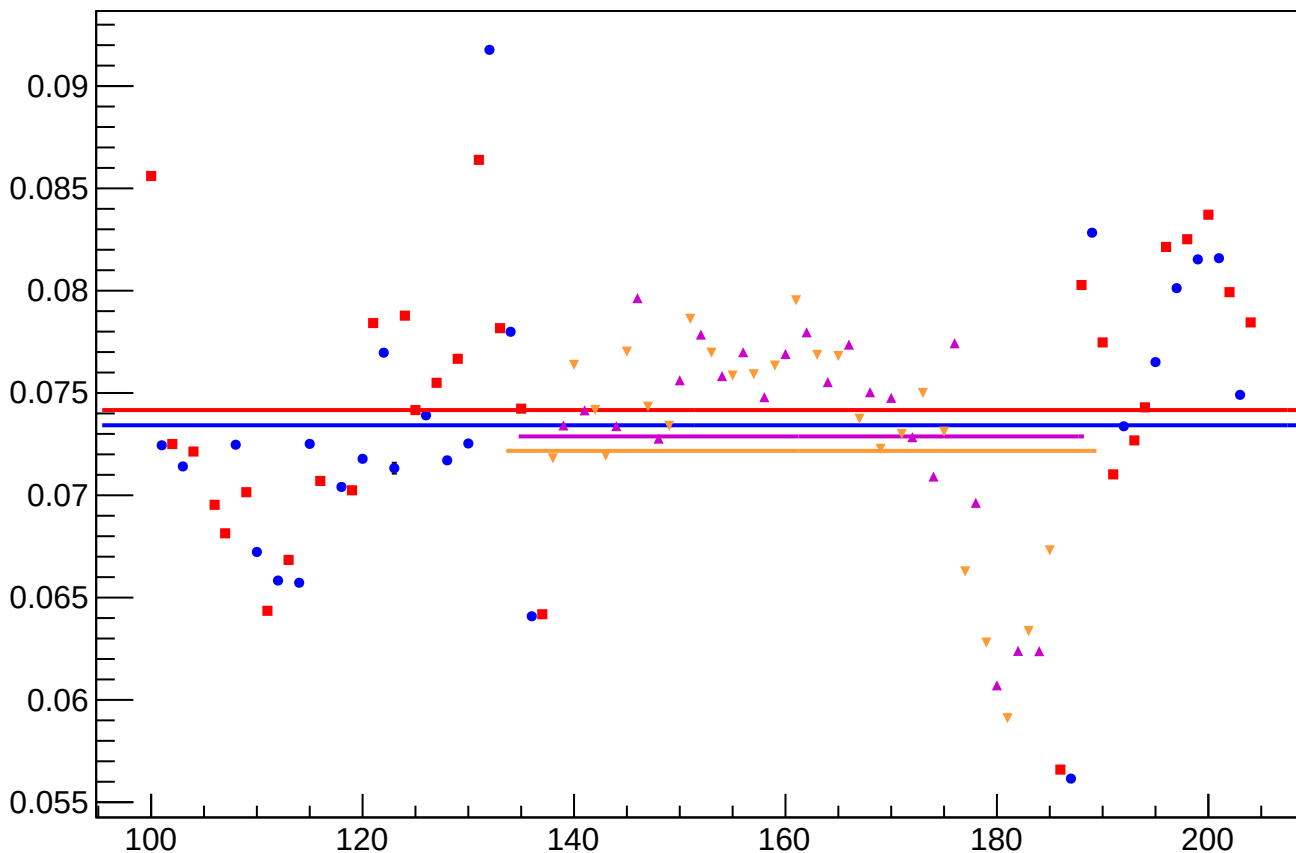
Right: -1.836 ± 0.000 $\chi^2/\text{NDF}: 8462842101.1/54$

In: -1.393 ± 0.000 $\chi^2/\text{NDF}: 10355926653.5/47$

Out: -1.516 ± 0.000 $\chi^2/\text{NDF}: 11722012292.4/54$

All: -1.457 ± 0.000 $\chi^2/\text{NDF}: 22120982161.7/100$

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.073+/-0.000 χ^2/NDF : 176511.2/24

Left Out: 0.072+/-0.000 χ^2/NDF : 222263.8/24

Right Out: 0.074+/-0.000 χ^2/NDF : 226263.7/29

Left In: 0.073+/-0.000 χ^2/NDF : 183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

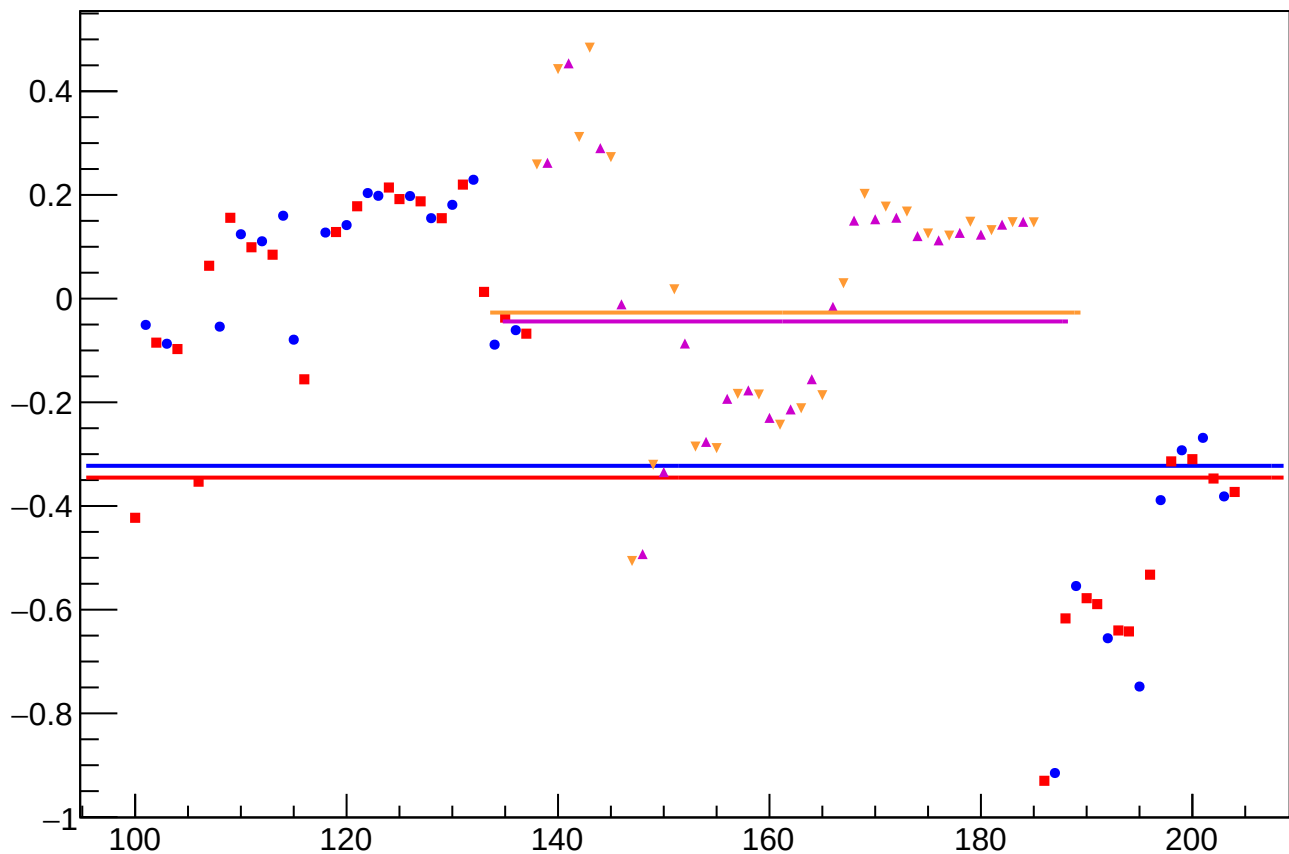
Right: 0.074+/-0.000 χ^2/NDF : 404080.7/54

In: 0.073+/-0.000 χ^2/NDF : 360792.2/47

Out: 0.073+/-0.000 χ^2/NDF : 460162.0/54

All: 0.073+/-0.000 χ^2/NDF : 820997.3/102

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.323+/-0.000 χ^2/NDF : 12128449421.6/24

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.345+/-0.000 χ^2/NDF : 10953966911.9/29

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

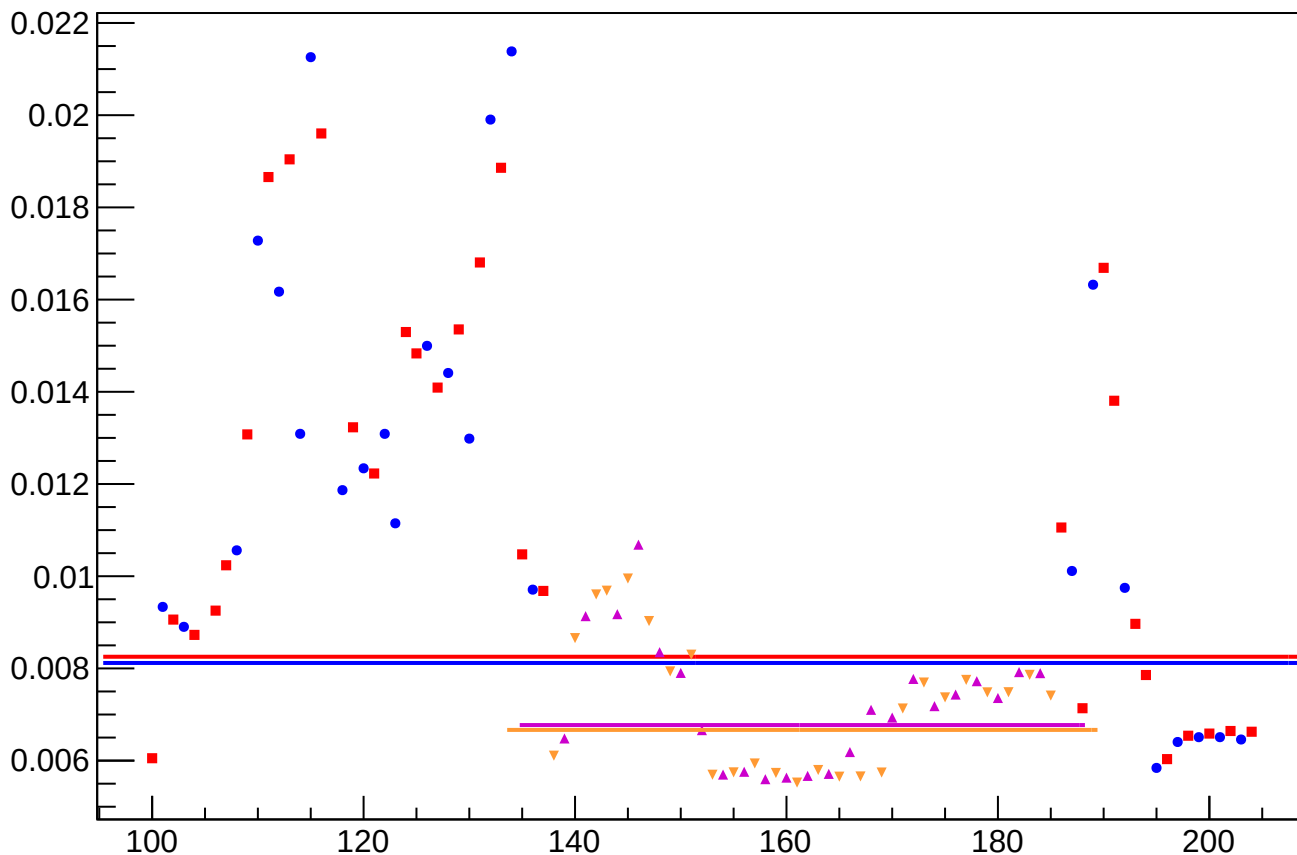
Right: -0.334+/-0.000 χ^2/NDF : 23124138702.6/54

In: -0.130+/-0.000 χ^2/NDF : 36104011674.7/47

Out: -0.126+/-0.000 χ^2/NDF : 43216776798.0/54

All: -0.128+/-0.000 χ^2/NDF : 79325587871.9/54

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2577339.5/24

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2847051.7/29

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

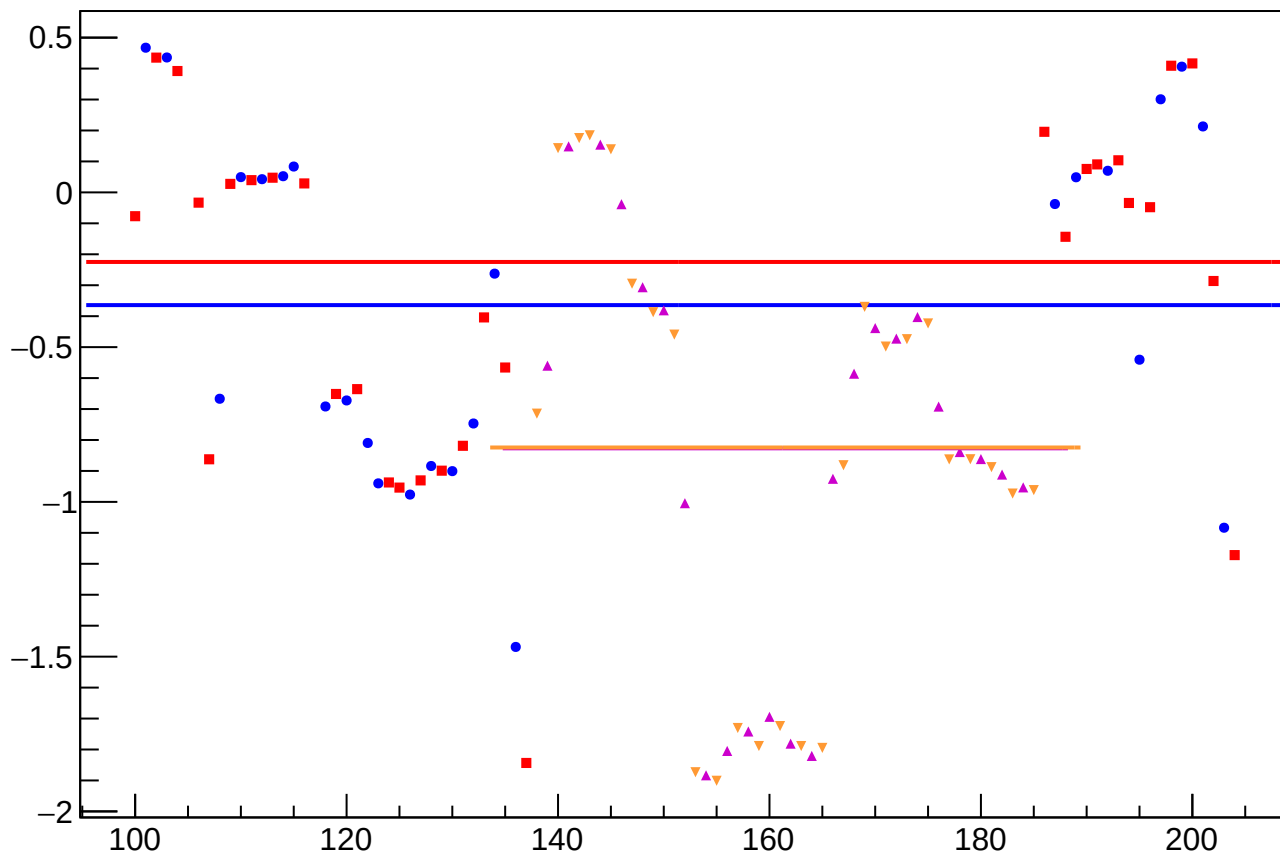
Right: 0.008+/-0.000 χ^2/NDF : 5427334.3/54

In: 0.007+/-0.000 χ^2/NDF :3897607.9/47

Out: 0.007+/-0.000 χ^2/NDF :4581723.2/54

All: 0.007+/-0.000 χ^2/NDF : 8479756.1/102

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.364 $\pm$ 0.000 χ^2 /NDF: 544470965.1/24

Left Out: -0.824 $\pm$ 0.000 χ^2 /NDF: 1103610806.5/24

Right Out: -0.225 $\pm$ 0.000 χ^2 /NDF: 458990243.1/29

Left In: -0.827 $\pm$ 0.000 χ^2 /NDF: 921651117.3/22

Left: -0.826 $\pm$ 0.000 χ^2 /NDF: 2025270716.0/47

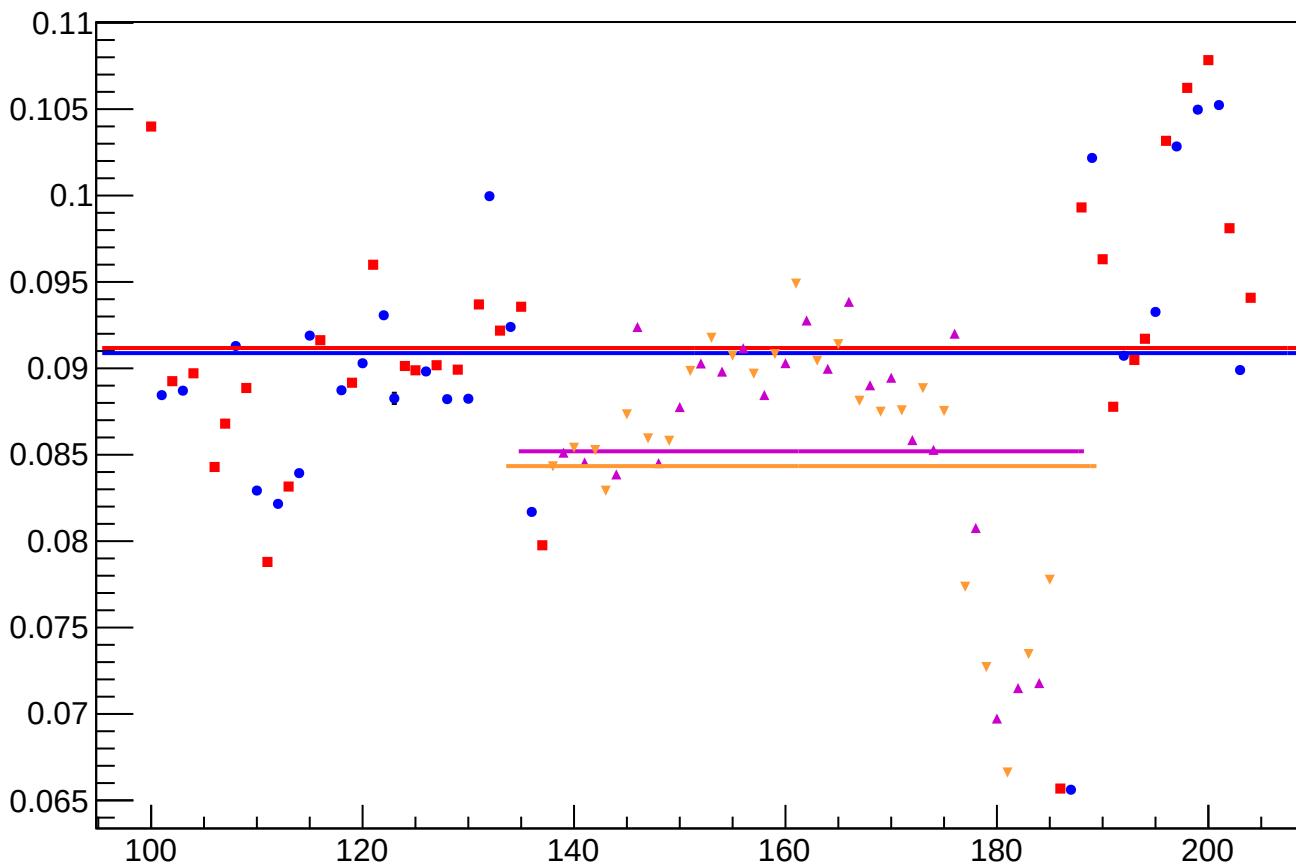
Right: -0.289 $\pm$ 0.000 χ^2 /NDF: 1018701084.5/54

In: -0.650 $\pm$ 0.000 χ^2 /NDF: 1659385129.4/47

Out: -0.586 $\pm$ 0.000 χ^2 /NDF: 1928031316.7/54

All: -0.616 $\pm$ 0.000 χ^2 /NDF: 3595704020.6/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091 $\pm$ 0.000 χ^2 /NDF: 186233.5/24

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 280198.0/29

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

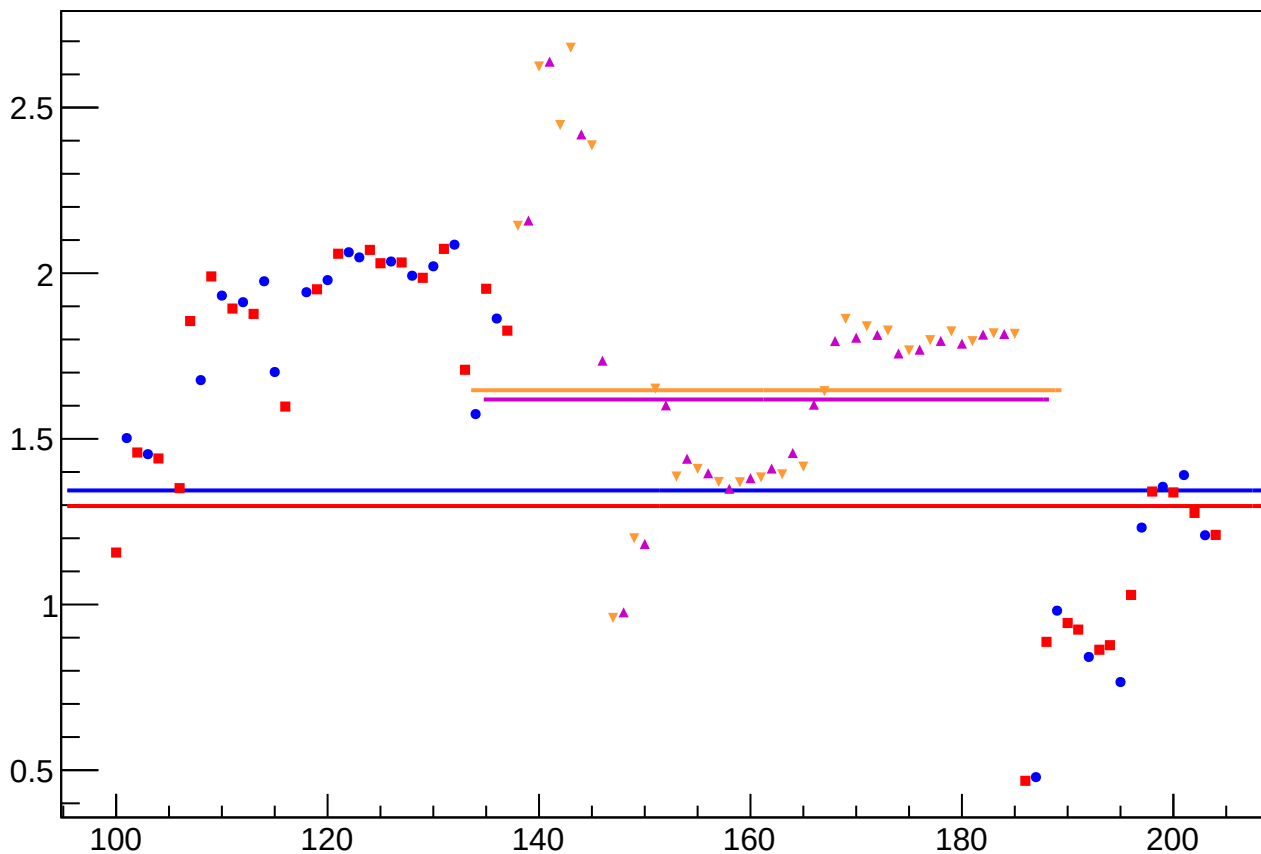
Right: 0.091 $\pm$ 0.000 χ^2 /NDF: 466568.6/54

In: 0.087 $\pm$ 0.000 χ^2 /NDF:482839.0/47

Out: 0.087 $\pm$ 0.000 χ^2 /NDF:663519.6/54

All: 0.087 $\pm$ 0.000 χ^2 /NDF: 1146747.7/102

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.344 $\pm$ 0.000 χ^2/NDF : 12708774792.1/24

Left Out: 1.647 $\pm$ 0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.297 $\pm$ 0.000 χ^2/NDF : 12064198214.8/29

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

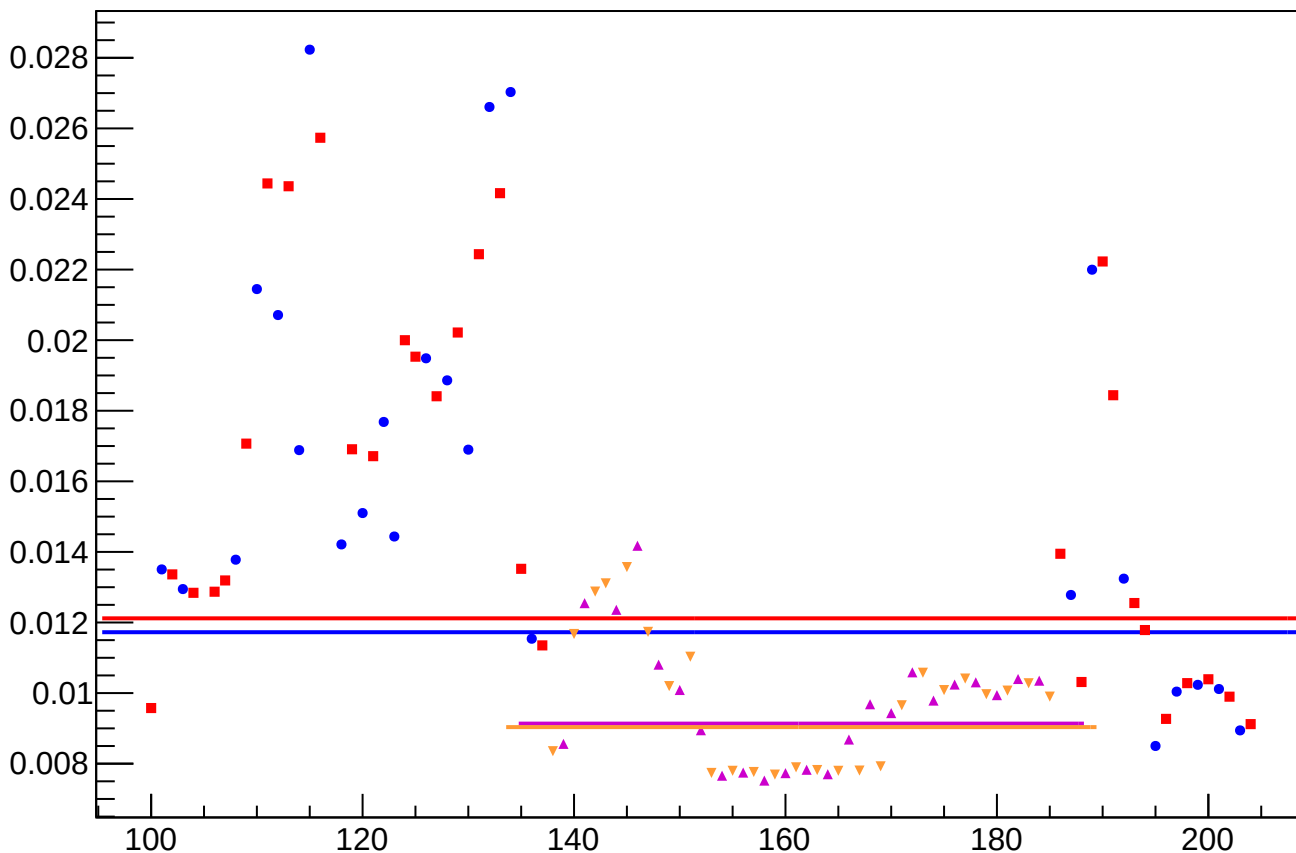
Right: 1.320 $\pm$ 0.000 χ^2/NDF : 24860459946.8/54

In: 1.541 $\pm$ 0.000 χ^2/NDF : 37435976591.4/47

Out: 1.548 $\pm$ 0.000 χ^2/NDF : 45770945947.7/54

All: 1.545 $\pm$ 0.000 χ^2/NDF : 83214927296.8/100

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1887022.3/24

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2103889.4/29

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

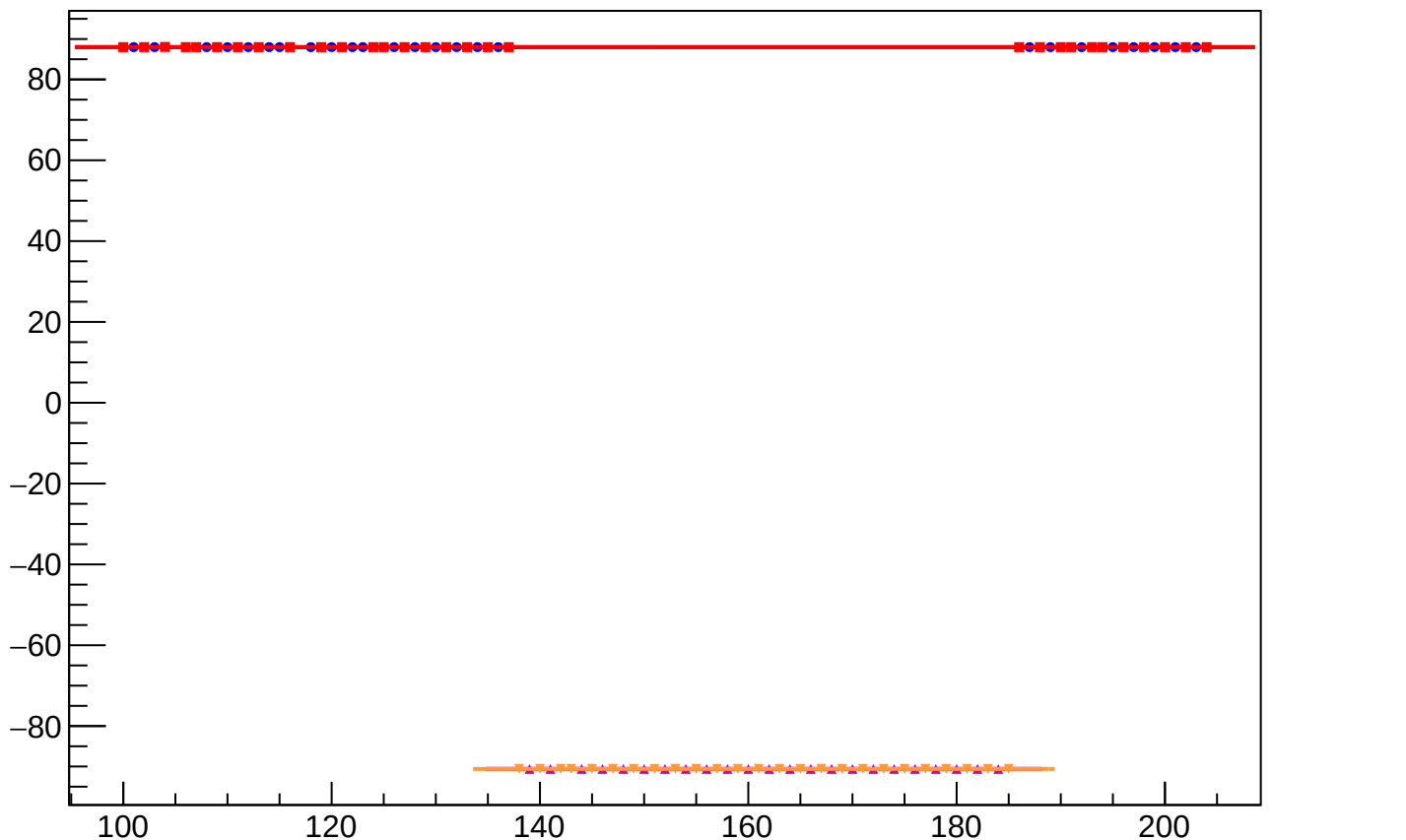
Right: 0.012+/-0.000 χ^2/NDF : 4003104.1/54

In: 0.010+/-0.000 χ^2/NDF :3496864.5/47

Out: 0.010+/-0.000 χ^2/NDF :4261724.1/54

All: 0.010+/-0.000 χ^2/NDF : 7758879.4/102

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 3643149.0/24

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 80517156177369974972394504192.0/29

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

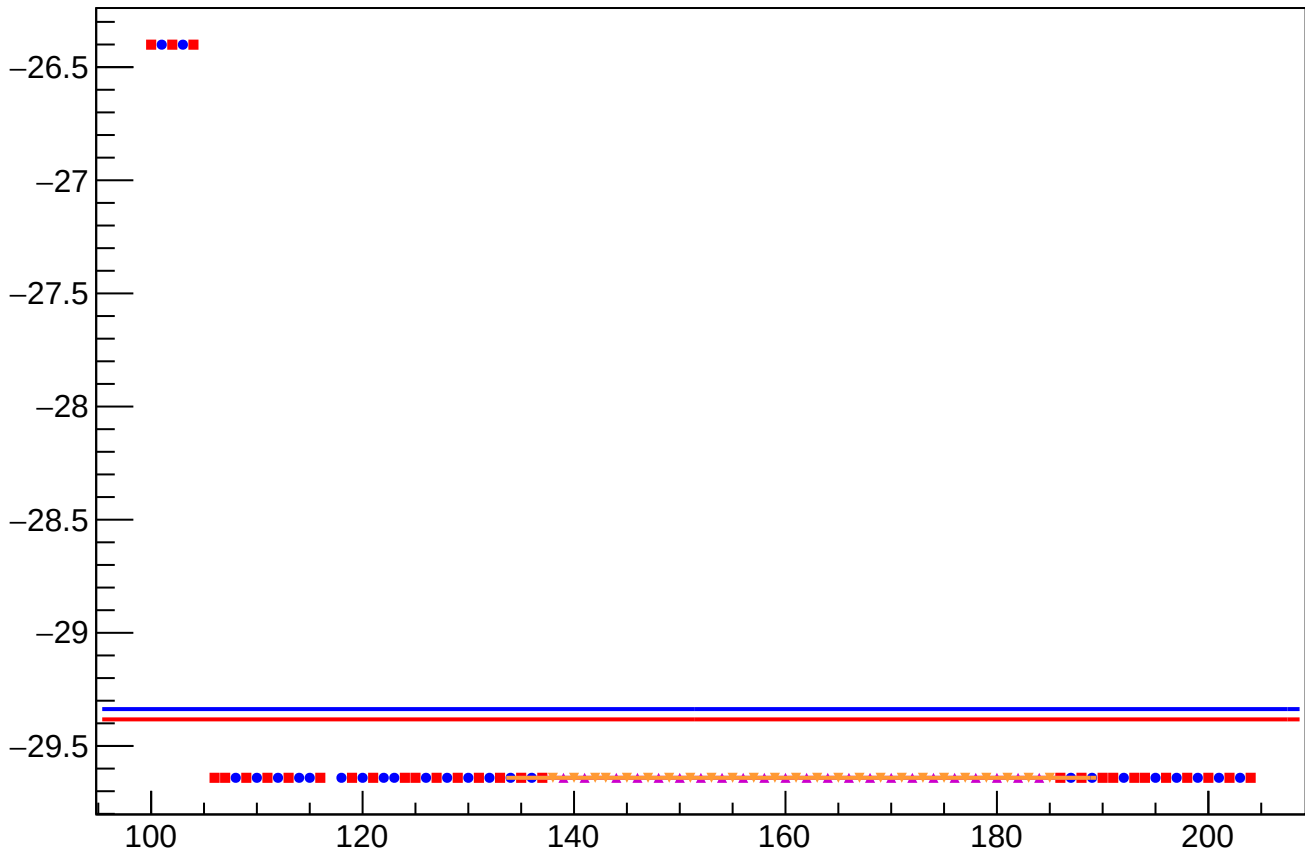
Right: 88.001+/-0.000 χ^2/NDF : 8187246471922482

In: -16.996+/-0.000 χ^2/NDF : 23609335131076900

Out: -13.228+/-0.000 χ^2/NDF : 2632434920612225

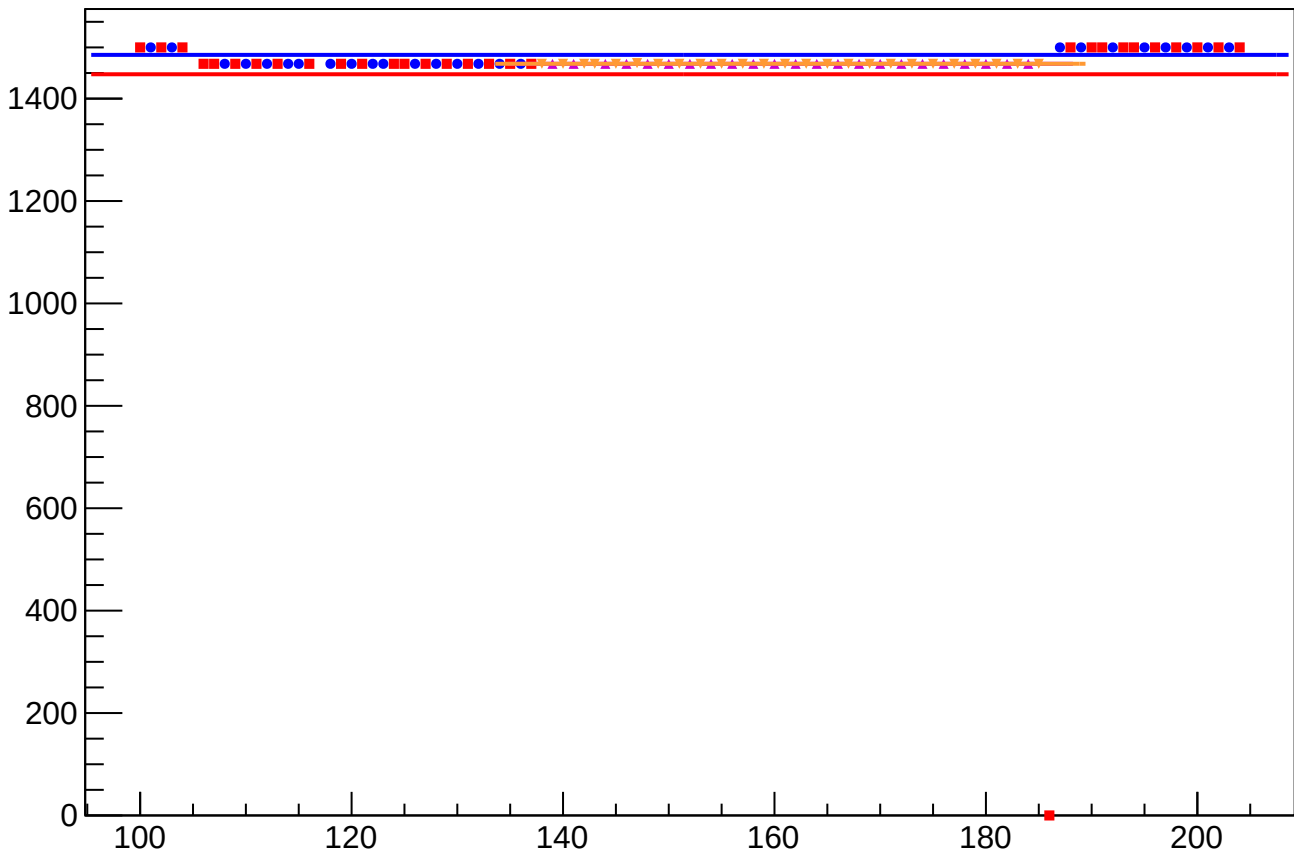
All: -15.022+/-0.000 χ^2/NDF : 499564039558

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.337+/-0.000 χ^2/NDF : 1122617846544874204334803109543936.0/24
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.383+/-0.000 χ^2/NDF : 1120705318681308468467529792094208.0/29
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.516+/-0.000 χ^2/NDF : 11908711101800178
 Out: -29.529+/-0.000 χ^2/NDF : 1175693719726245
 All: -29.523+/-0.000 χ^2/NDF : 236684884488

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1485.427+/-0.000

χ^2/NDF : 320135479729198739428803677731684352.0/24

Left Out: 1468.048+/-0.000

χ^2/NDF : 127949199501977668488138456039424.0/24

Right Out: 1447.569+/-0.000

χ^2/NDF : 82115665396300206073211861314958262272.0/29

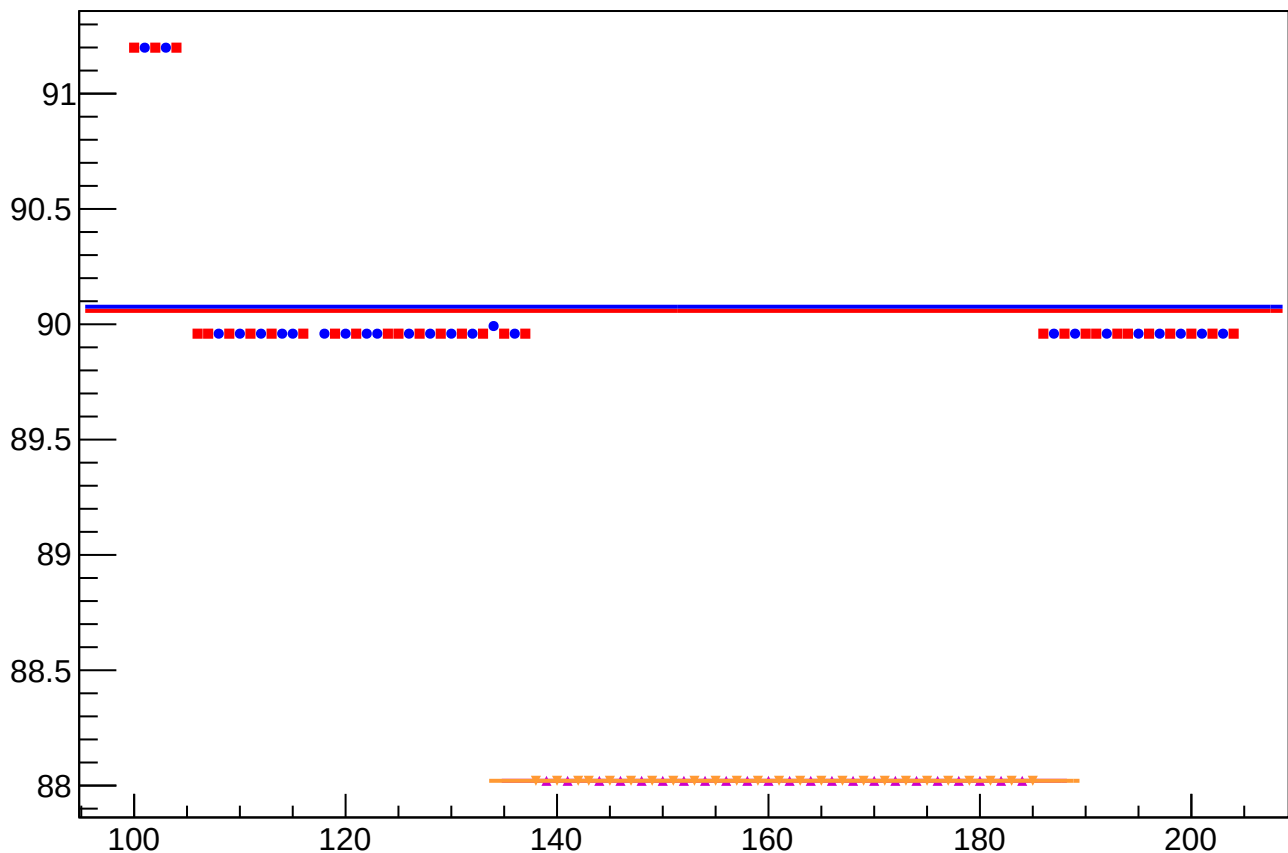
Left In: 1467.994+/-0.000

χ^2/NDF : 144497772795444989723550941184.0/22

All: 1466.796+/-0.000

χ^2/NDF : 83416760747

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.076+/-0.000

χ^2/NDF : 164292838619764038862240609206272.0/24

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.066+/-0.000 χ^2/NDF : 3286625646827637

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.058+/-0.000

χ^2/NDF : 164151472527513781167318565388288.0/29

Left In: 88.021+/-0.000

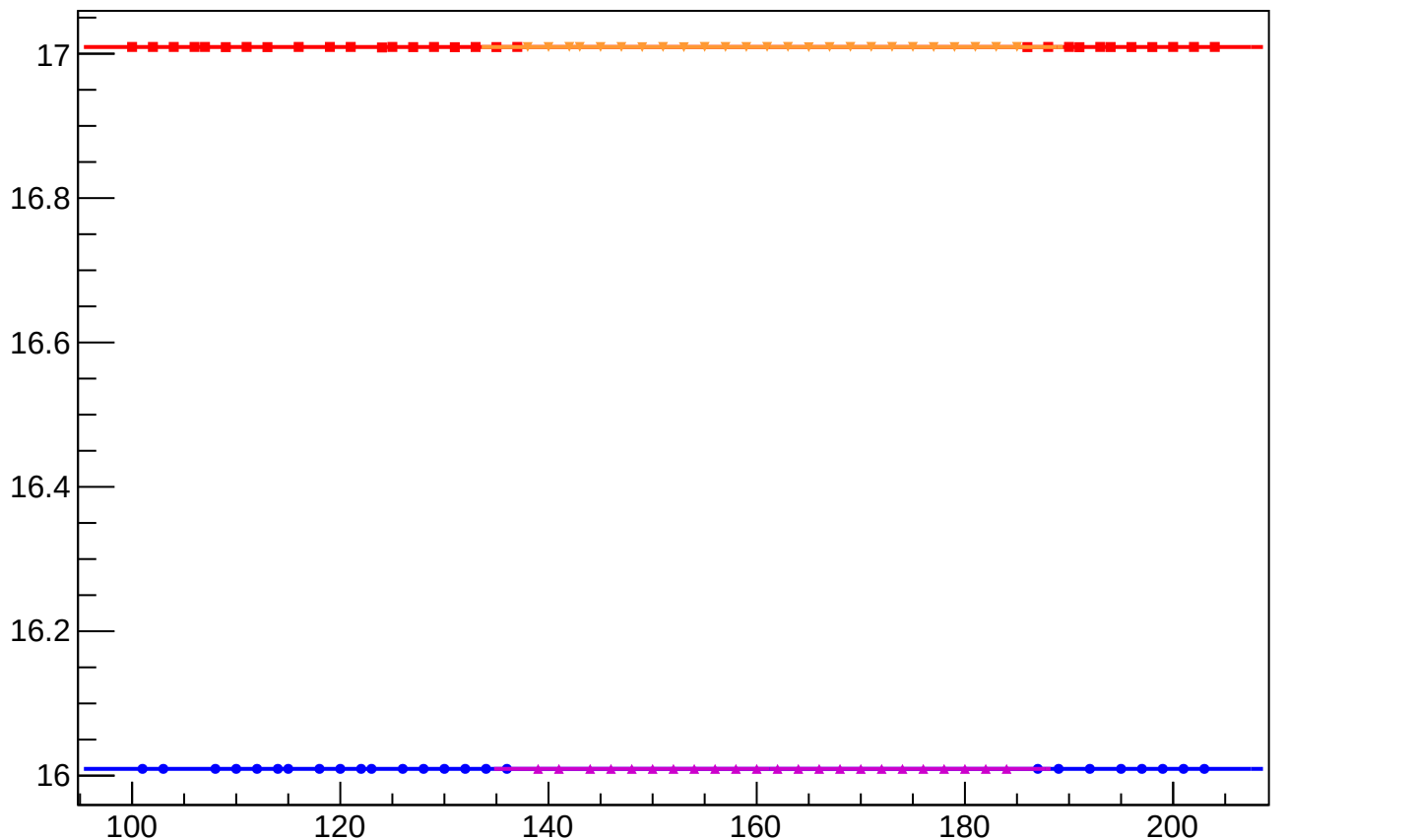
χ^2/NDF : 6257169.0/22

In: 88.868+/-0.000 χ^2/NDF : 329108082596285318

Out: 88.903+/-0.000 χ^2/NDF : 35897308365996041

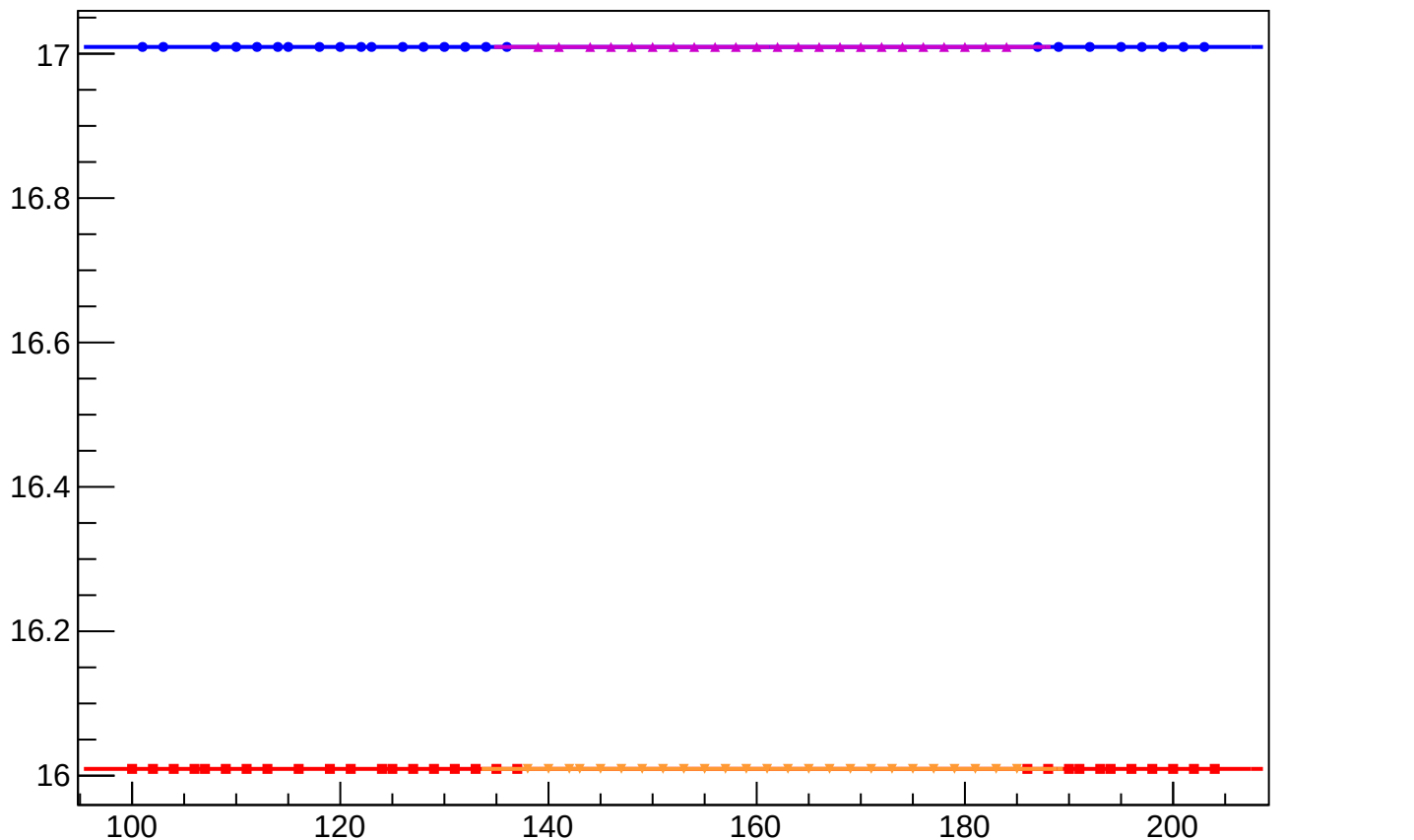
All: 88.886+/-0.000 χ^2/NDF : 6882835935060

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



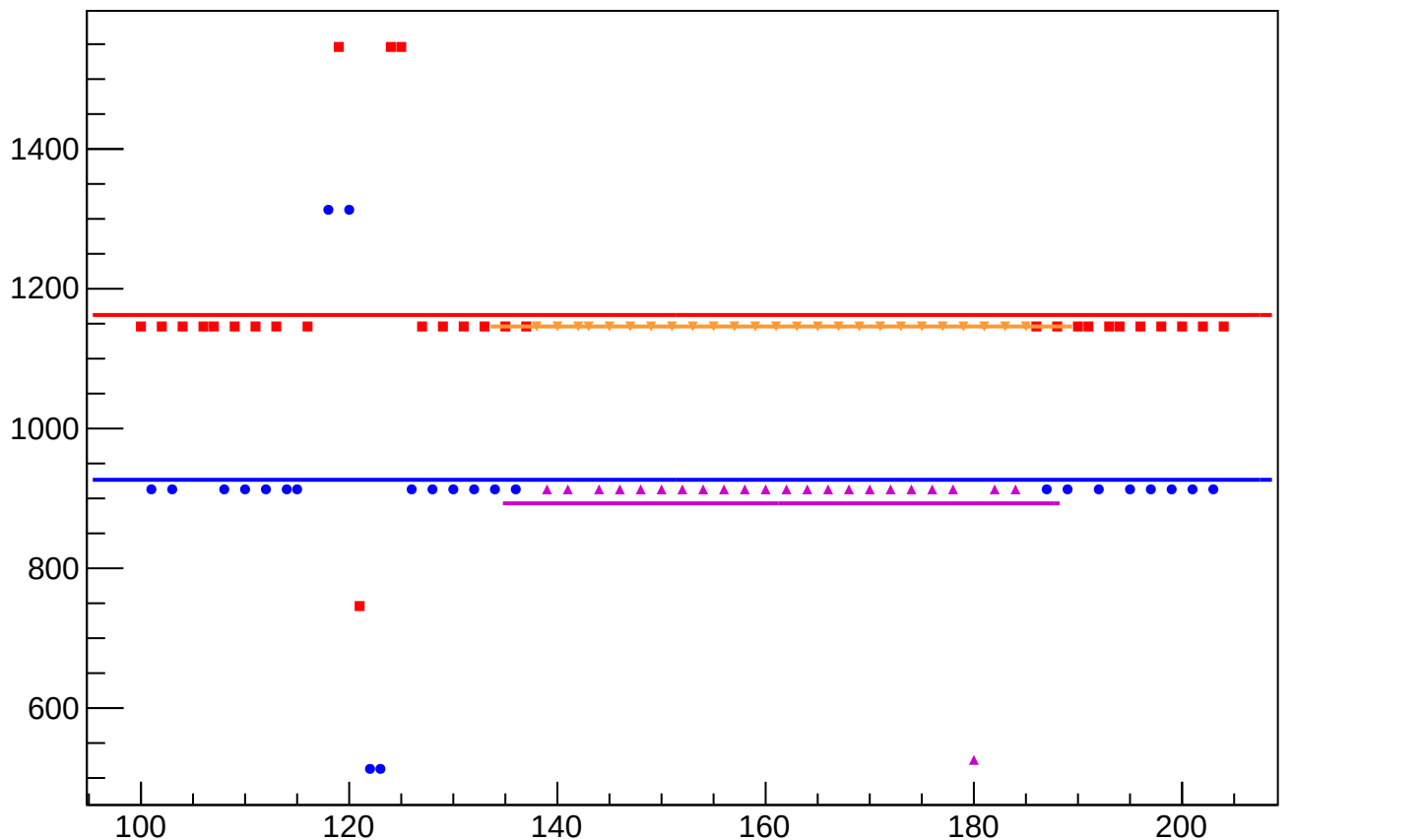
Right In: 16.009 $\pm$ 0.000 χ^2/NDF : 112604327079546359644160.0/24
 Left Out: 17.009 $\pm$ 0.000 χ^2/NDF : 26194929080144976634970112.0/24
 Right Out: 17.009 $\pm$ 0.000 χ^2/NDF : 18087658344591480814829568.0/29
 Left In: 16.009 $\pm$ 0.000 χ^2/NDF : 127920993667935400624128.0/22
 All: 16.531 $\pm$ 0.000 χ^2/NDF : 1510337083227

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



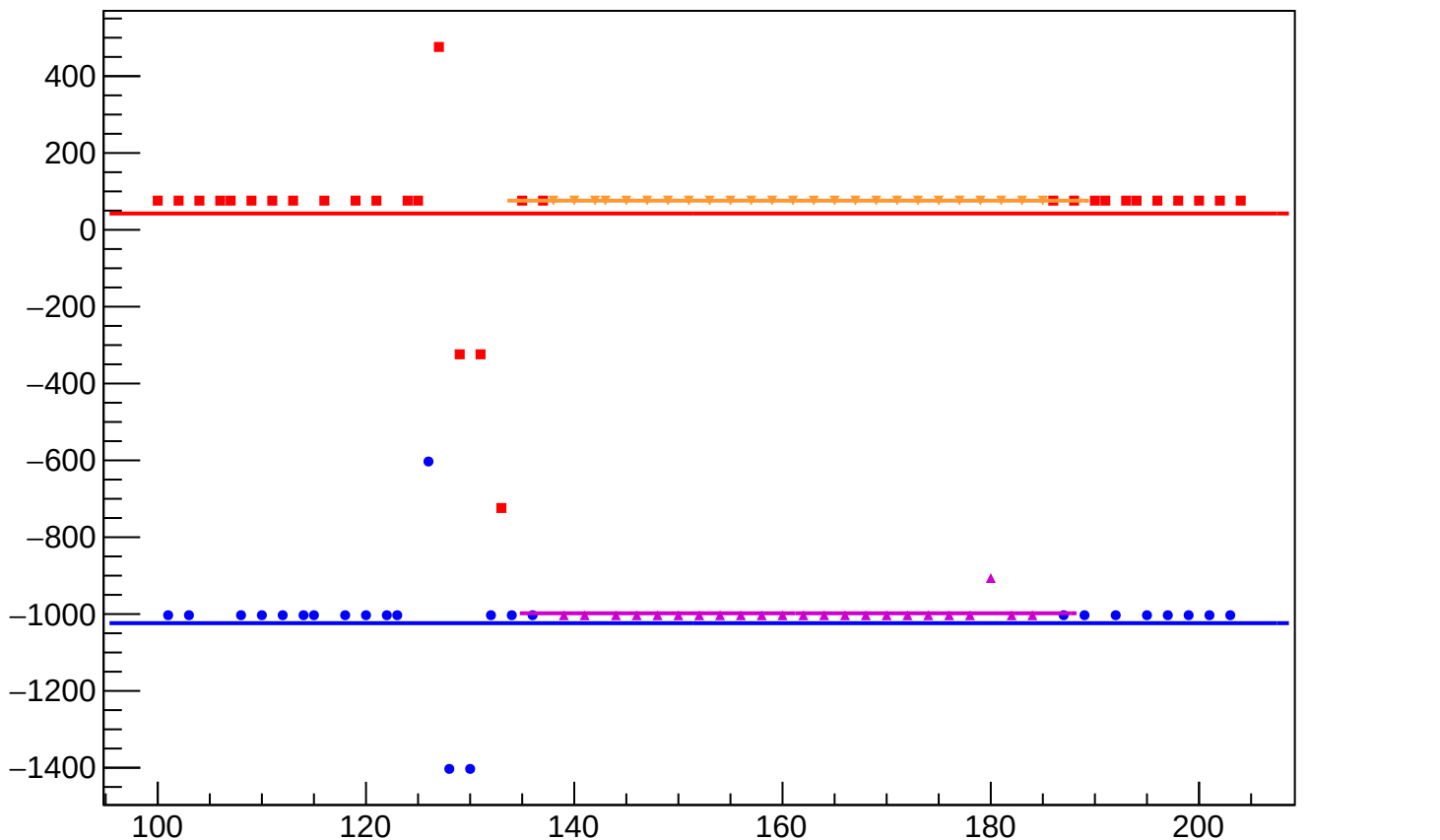
Right In: 17.009+/-0.000	χ^2/NDF : 112604327125149651304448.0/24	Left: 16.491+/-0.000	χ^2/NDF : 90683349233974458
Left Out: 16.009+/-0.000	χ^2/NDF : 61253.5/24	Right: 16.468+/-0.000	χ^2/NDF : 6643923557783195
Right Out: 16.009+/-0.000	χ^2/NDF : 255957.0/29	In: 17.009+/-0.000	χ^2/NDF : 228009518460350756
Left In: 17.009+/-0.000	χ^2/NDF : 114986101427233622065152.0/22	Out: 16.009+/-0.000	χ^2/NDF : 756953.1/54
		All: 16.481+/-0.000	χ^2/NDF : 1572082811744

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 926.657+/-0.000 χ^2/NDF : 21046354620191125675225052276693401600.0/24
 Left Out: 1146.011+/-0.000 χ^2/NDF : 80568346702701338499999540224.0/24
 Right Out: 1162.494+/-0.000 χ^2/NDF : 21685108835366846090855465845996388352.0/29
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1035.870+/-0.000 χ^2/NDF : 15410165135

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1023.641 ± 0.000 $\chi^2/\text{NDF}: 22662714308933685512270445050274512896.0/24$
 Left Out: 76.011 ± 0.000 $\chi^2/\text{NDF}: 11479003589933272170007363584.0/24$
 Right Out: 42.494 ± 0.000 $\chi^2/\text{NDF}: 45404140078183315085395812919057317888.0/29$
 Left In: -997.979 ± 0.000 $\chi^2/\text{NDF}: 825858066518991041870194619245920256.0/22$
 All: -448.015 ± 0.000 $\chi^2/\text{NDF}: 19027058318$