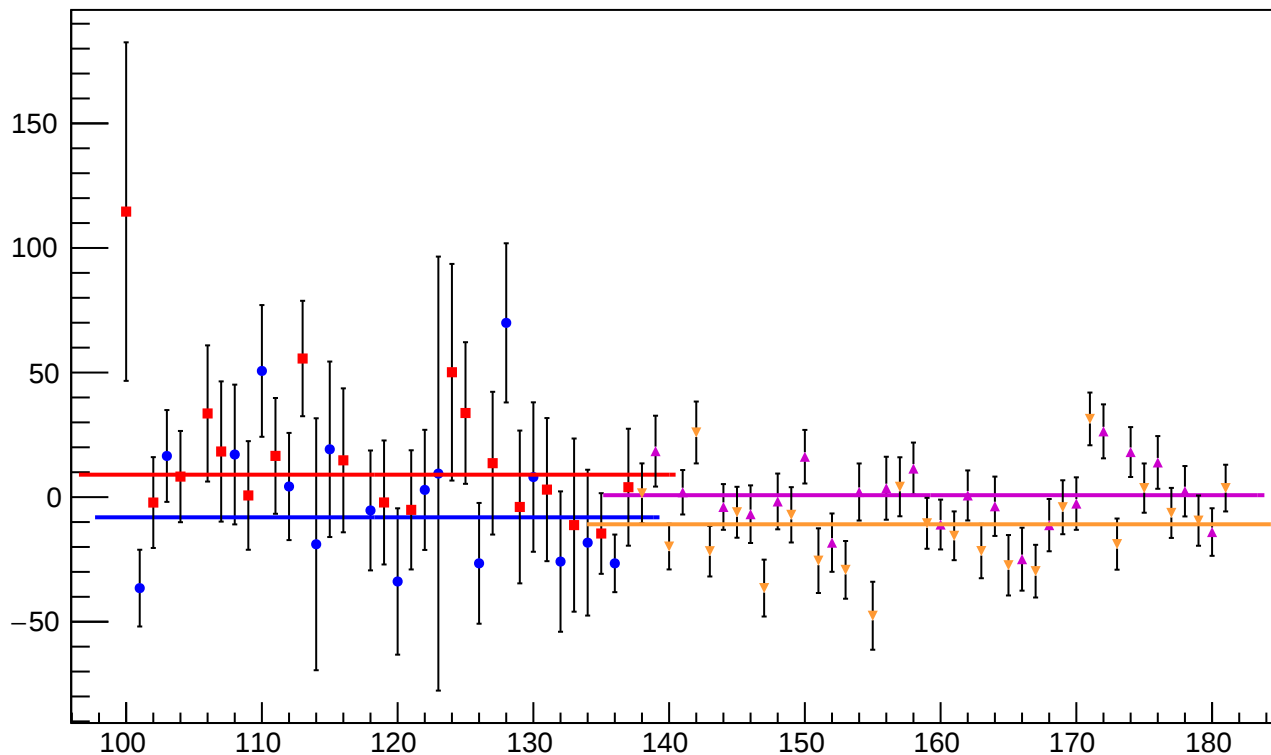


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.097 $\pm$ 5.619

χ^2/NDF : 22.9/16

Left Out: -10.892 $\pm$ 2.243

χ^2/NDF : 57.9/22

Right Out: 9.015 $\pm$ 5.687

χ^2/NDF : 13.0/18

Left In: 0.783 $\pm$ 2.335

χ^2/NDF : 27.8/20

Left: -5.289 $\pm$ 1.618

χ^2/NDF : 98.7/43

Right: 0.356 $\pm$ 3.997

χ^2/NDF : 40.5/35

In: -0.524 $\pm$ 2.156

χ^2/NDF : 52.7/37

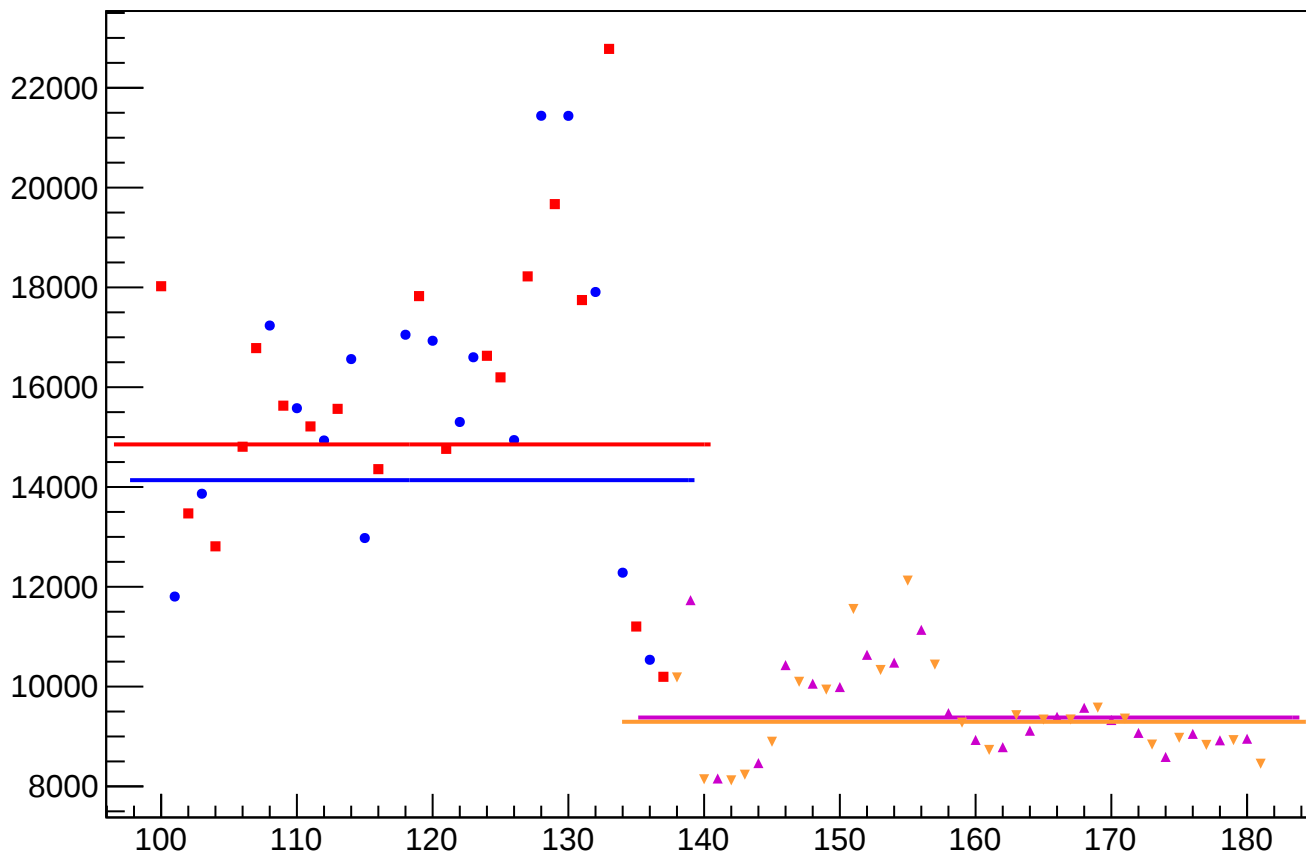
Out: -8.212 $\pm$ 2.087

χ^2/NDF : 81.5/41

All: -4.495 $\pm$ 1.500

χ^2/NDF : 140.8/79

diff_bpm4aX_rms vs Slug, Sign Corrected



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

Left Out: 9294.282 $\pm$ 1.586 χ^2 /NDF: 320941.7/22

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

Left In: 9379.975 $\pm$ 1.651 χ^2 /NDF: 259474.0/20

Left: 9335.405 $\pm$ 1.144 χ^2 /NDF: 581816.6/43

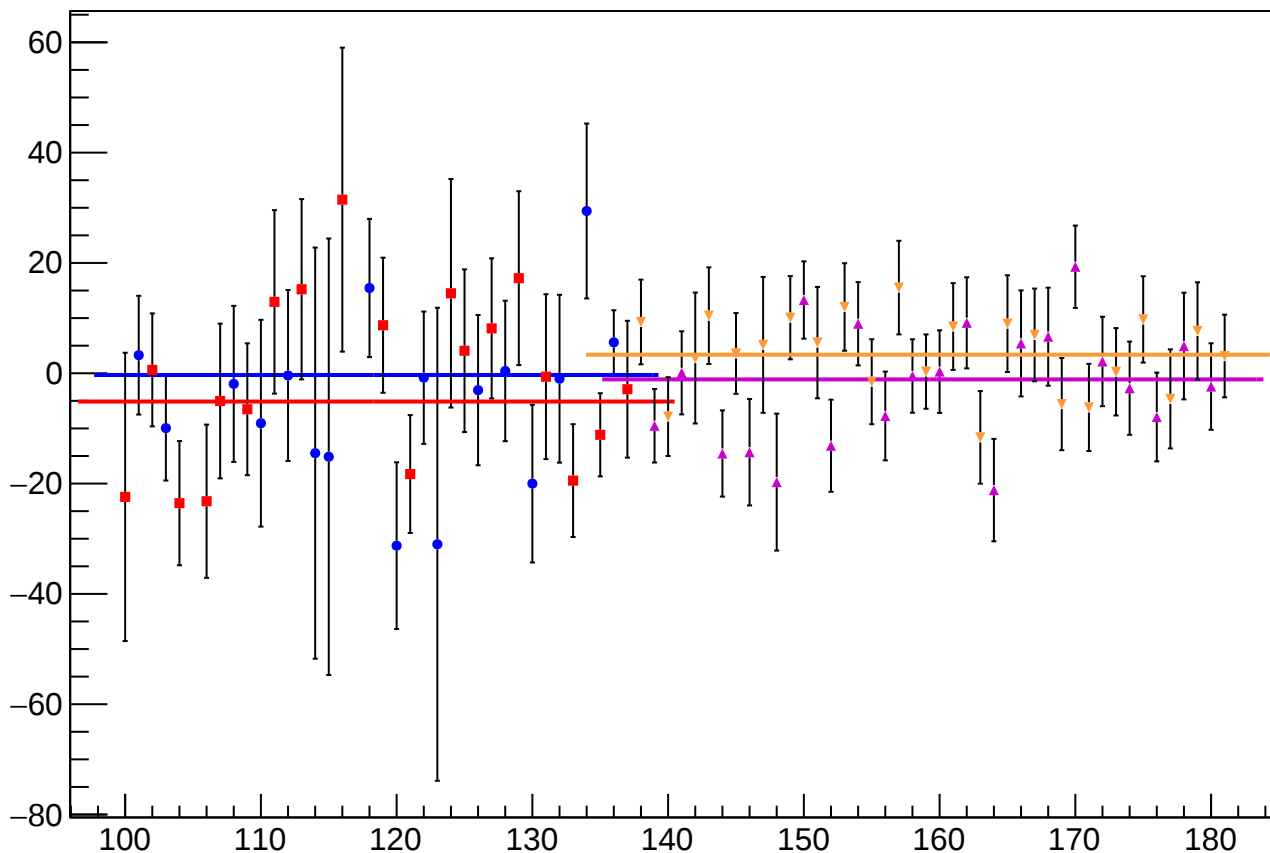
Right: 14490.905 $\pm$ 2.827 χ^2 /NDF: 1092938.6/35

In: 10080.449 $\pm$ 1.525 χ^2 /NDF: 2084700.7/37

Out: 10042.573 $\pm$ 1.475 χ^2 /NDF: 2448410.2/41

All: 10060.889 $\pm$ 1.060 χ^2 /NDF: 4533429.6/71

diff_bpm4aY_mean vs Slug, Sign Corrected



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

Left Out: 3.363 ± 1.712 χ^2/NDF : 17.1/22

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

Left In: -1.113 ± 1.764 χ^2/NDF : 33.7/20

Left: 1.193 ± 1.229 χ^2/NDF : 54.2/43

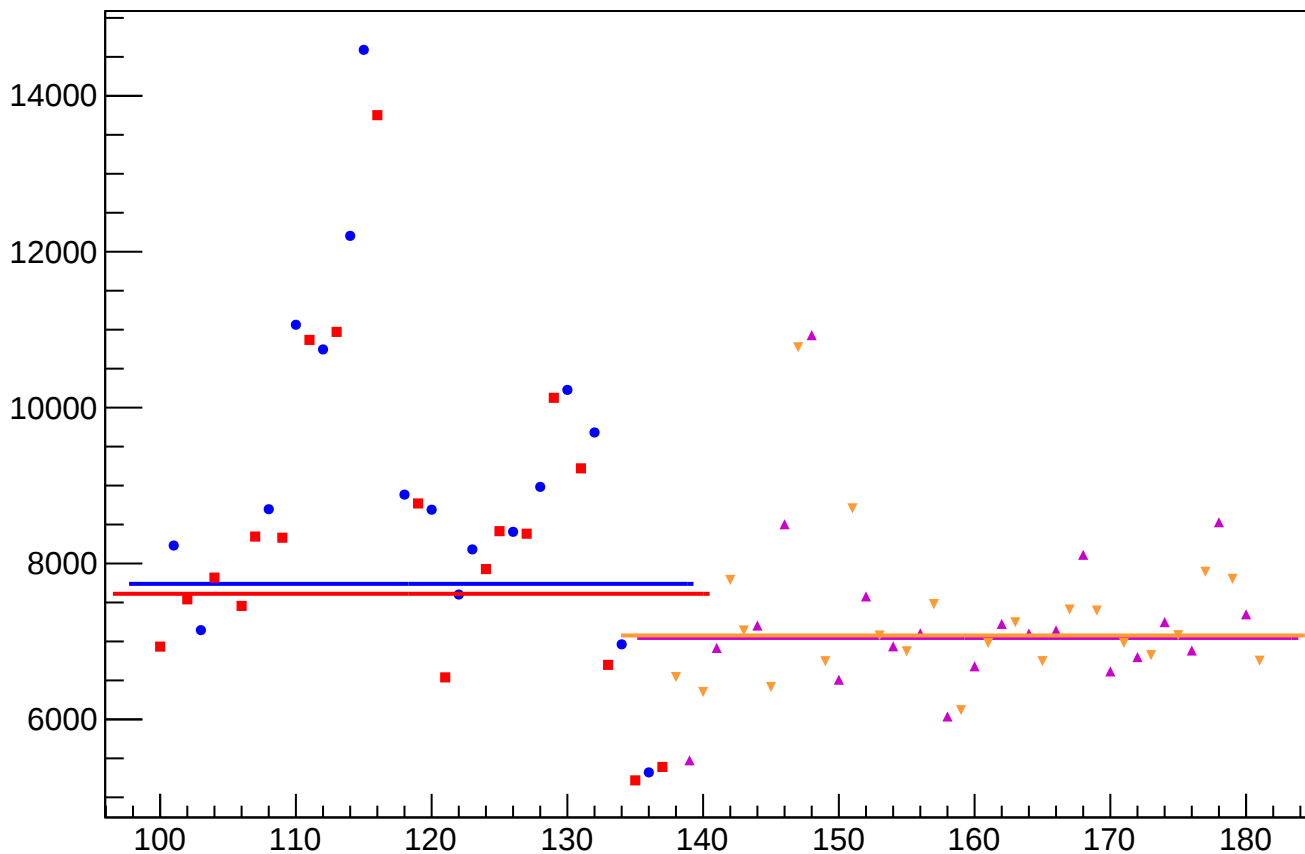
Right: -2.829 ± 2.126 χ^2/NDF : 35.3/35

In: -0.915 ± 1.531 χ^2/NDF : 48.2/37

Out: 1.216 ± 1.480 χ^2/NDF : 42.9/41

All: 0.187 ± 1.064 χ^2/NDF : 92.1/79

diff_bpm4aY_rms vs Slug, Sign Corrected



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

Left Out: 7076.653+/-1.210 χ^2/NDF : 382538.9/22

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

Left In: 7045.125+/-1.248 χ^2/NDF : 515592.9/20

Left: 7061.366+/-0.869 χ^2/NDF : 898460.8/43

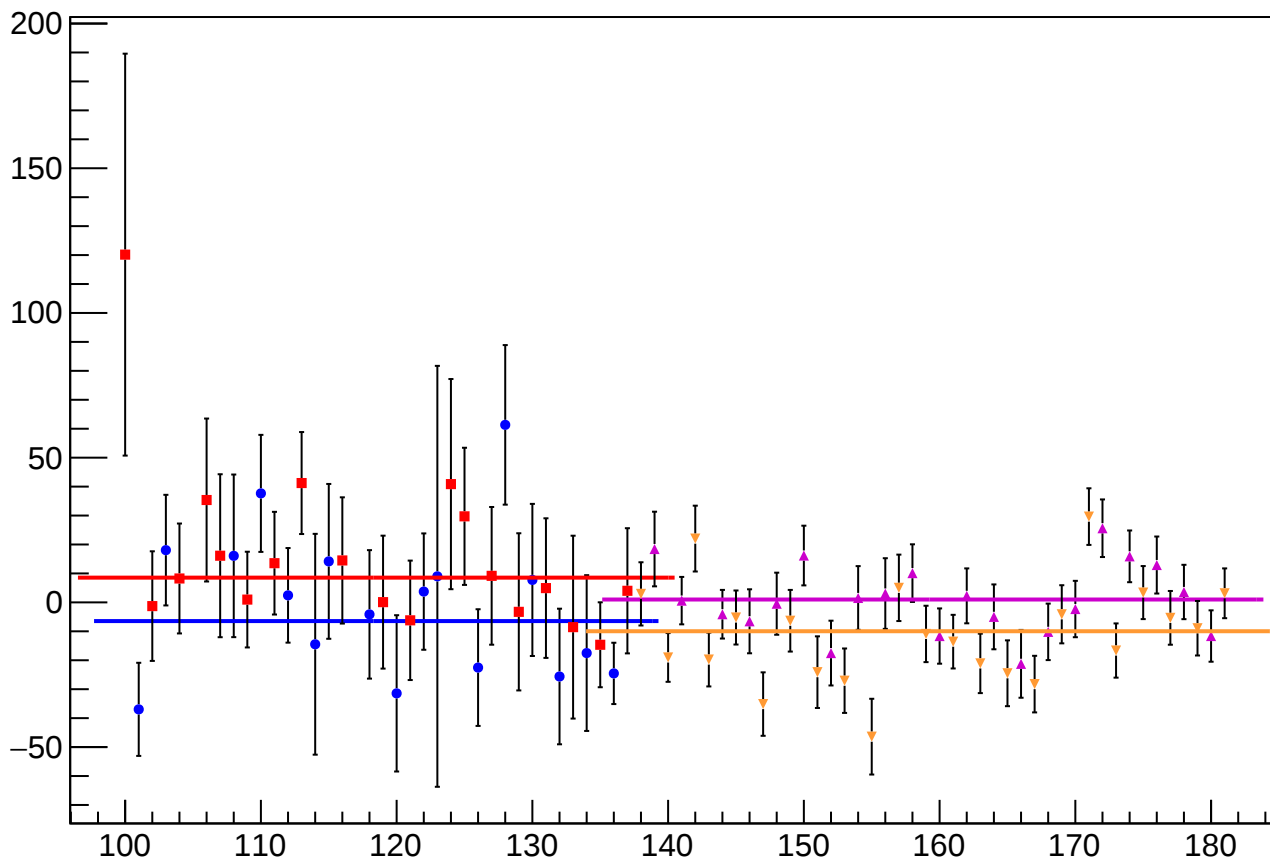
Right: 7672.308+/-1.504 χ^2/NDF : 1426027.8/35

In: 7216.830+/-1.082 χ^2/NDF : 1333090.4/37

Out: 7211.896+/-1.046 χ^2/NDF : 1115162.2/41

All: 7214.279+/-0.752 χ^2/NDF : 2448263.3/79

diff_bpm4eX_mean vs Slug, Sign Corrected



Left: -4.724 ± 1.511 $\chi^2/\text{NDF}: 99.9/43$

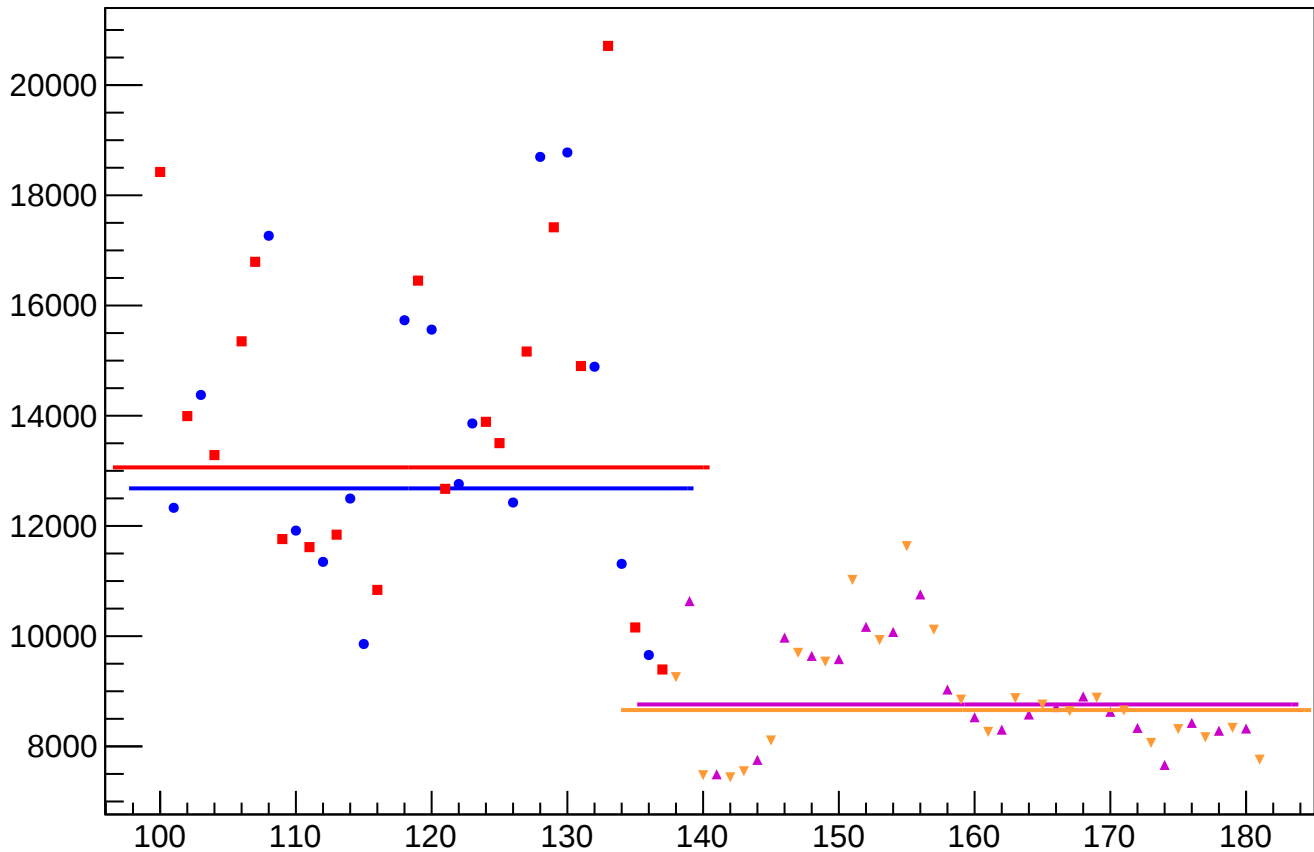
Right: 1.072 ± 3.549 $\chi^2/\text{NDF}: 40.9/35$

In: -0.193 ± 2.003 $\chi^2/\text{NDF}: 53.3/37$

Out: -7.219 ± 1.931 $\chi^2/\text{NDF}: 83.3/41$

All: -3.835 ± 1.390 $\chi^2/\text{NDF}: 143.0/79$

diff_bpm4eX_rms vs Slug, Sign Corrected



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

Left Out: 8658.390 $\pm$ 1.480 χ^2 /NDF: 417254.1/22

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

Left In: 8760.902 $\pm$ 1.544 χ^2 /NDF: 337743.0/20

Left: 8707.467 $\pm$ 1.068 χ^2 /NDF: 757294.7/43

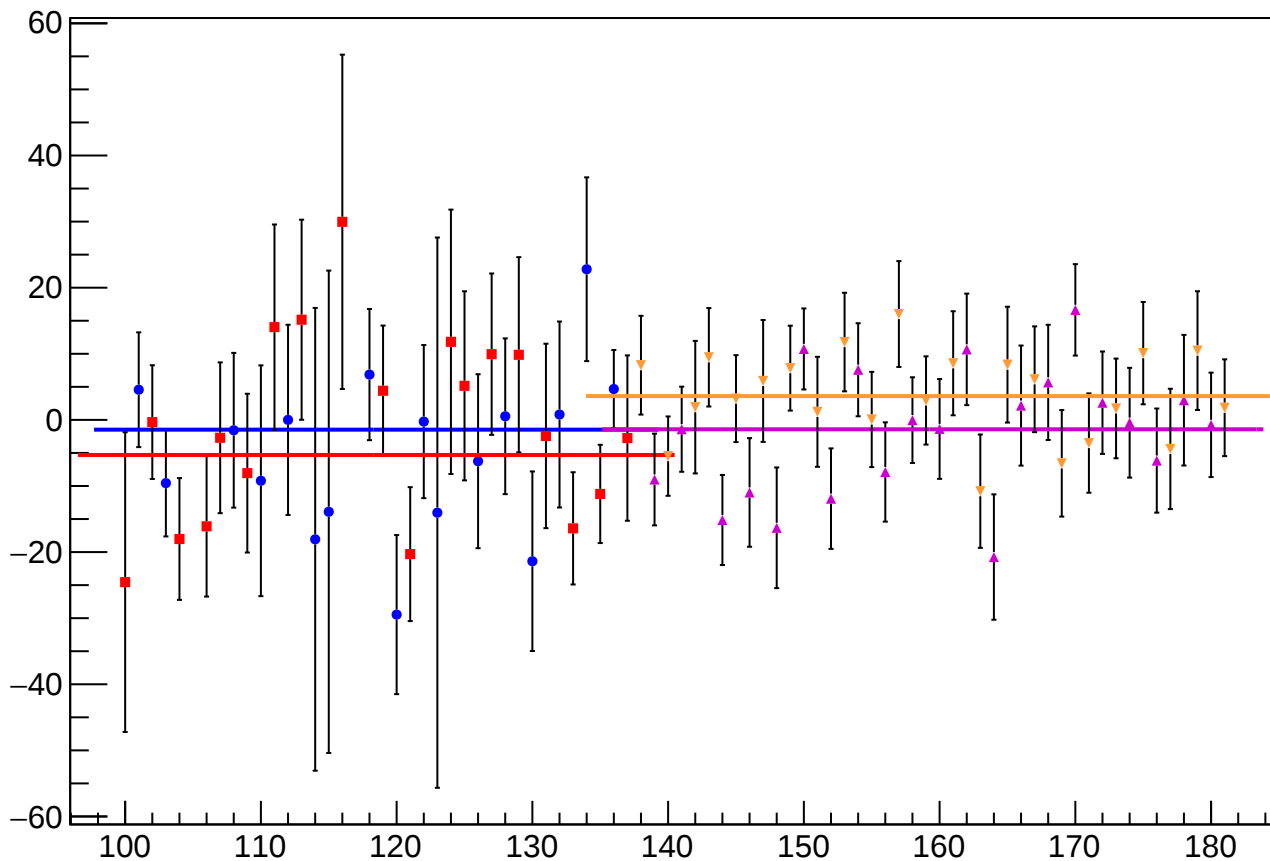
Right: 12873.023 $\pm$ 2.509 χ^2 /NDF: 1063620.9/35

In: 9382.974 $\pm$ 1.416 χ^2 /NDF: 1919471.0/37

Out: 9312.955 $\pm$ 1.365 χ^2 /NDF: 2233064.1/41

All: 9346.684 $\pm$ 0.983 χ^2 /NDF: 4153801.9/79

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.477 $\pm$ 2.795 χ^2/NDF : 14.7/16

Left Out: 3.601 $\pm$ 1.599 χ^2/NDF : 16.0/22

Right Out: -5.307 $\pm$ 2.645 χ^2/NDF : 18.9/18

Left In: -1.422 $\pm$ 1.664 χ^2/NDF : 32.2/20

Left: 1.189 $\pm$ 1.153 χ^2/NDF : 53.0/43

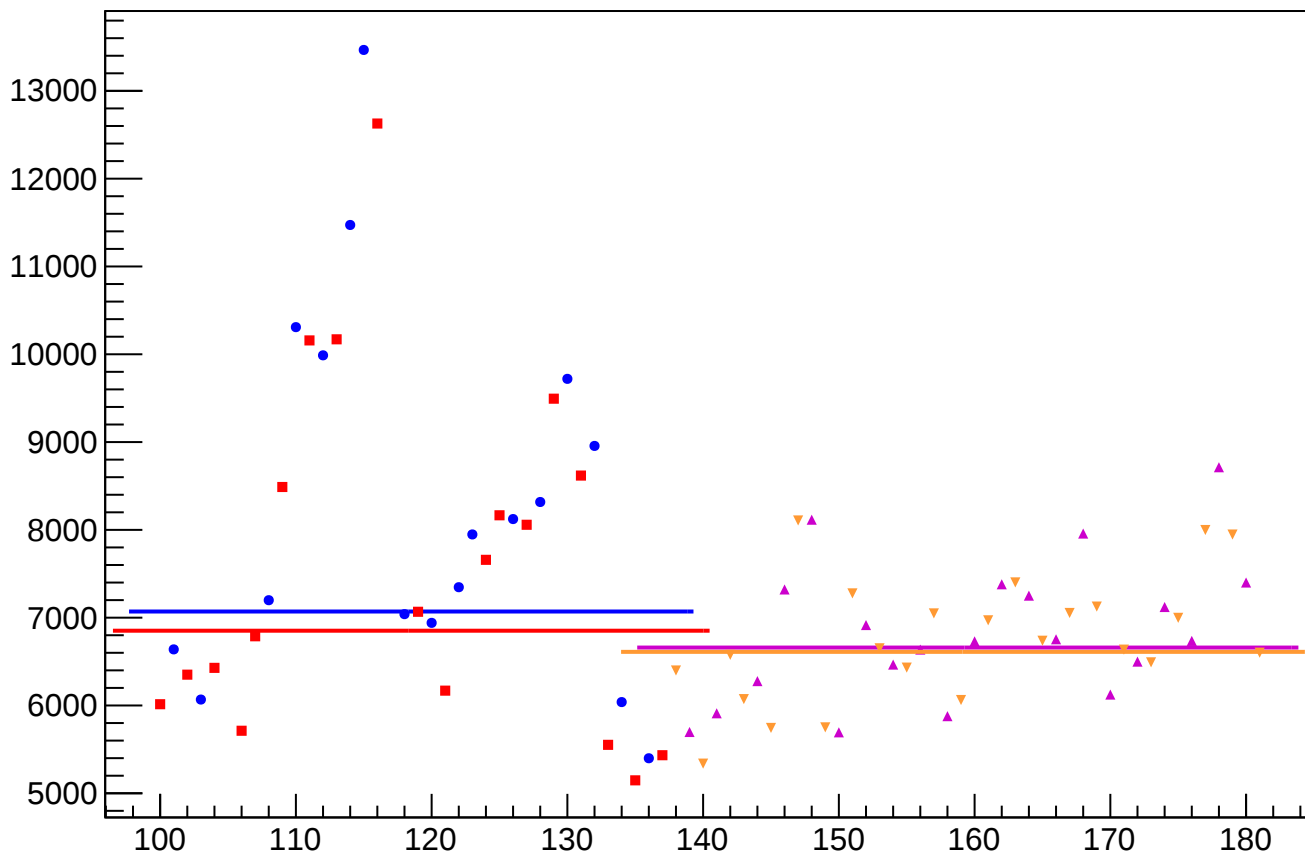
Right: -3.498 $\pm$ 1.921 χ^2/NDF : 34.6/35

In: -1.437 $\pm$ 1.430 χ^2/NDF : 46.9/37

Out: 1.217 $\pm$ 1.368 χ^2/NDF : 43.2/41

All: -0.051 $\pm$ 0.988 χ^2/NDF : 92.0/79

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7070.220 ± 1.977 $\chi^2/\text{NDF}: 600878.1/16$

Left Out: 6610.734 ± 1.130 $\chi^2/\text{NDF}: 391067.4/22$

Right Out: 6851.593 ± 1.870 $\chi^2/\text{NDF}: 688585.4/18$

Left In: 6659.636 ± 1.176 $\chi^2/\text{NDF}: 408435.2/20$

Left: 6634.209 ± 0.815 $\chi^2/\text{NDF}: 800401.1/43$

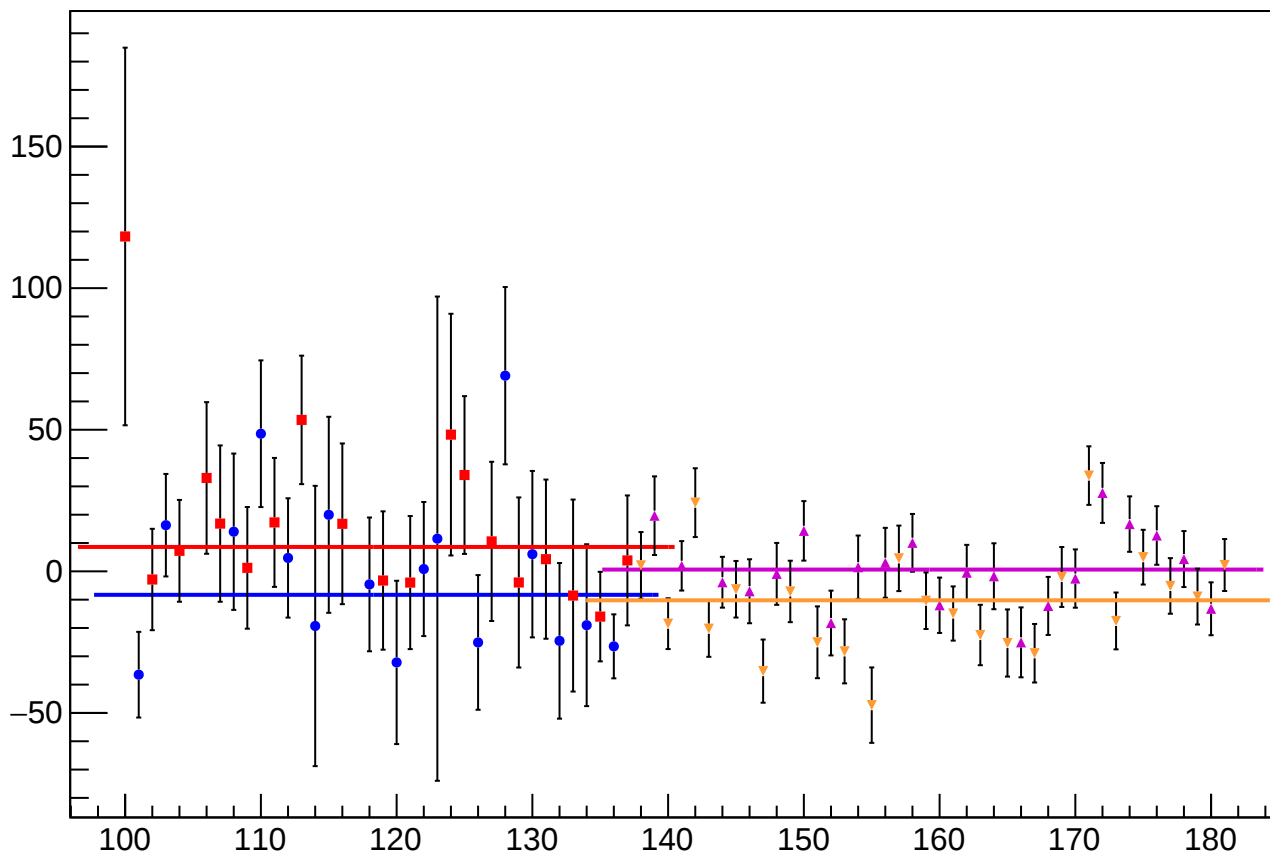
Right: 6954.858 ± 1.358 $\chi^2/\text{NDF}: 1295919.6/35$

In: 6767.033 ± 1.011 $\chi^2/\text{NDF}: 1041178.5/37$

Out: 6675.185 ± 0.967 $\chi^2/\text{NDF}: 1091803.3/41$

All: 6719.089 ± 0.699 $\chi^2/\text{NDF}: 2137291.2/79$

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.291 $\pm$ 5.508 χ^2/NDF : 22.7/16

Left Out: -10.225 $\pm$ 2.193 χ^2/NDF : 59.9/22

Right Out: 8.615 $\pm$ 5.576 χ^2/NDF : 13.4/18

Left In: 0.625 $\pm$ 2.283 χ^2/NDF : 28.6/20

Left: -5.018 $\pm$ 1.581 χ^2/NDF : 100.2/43

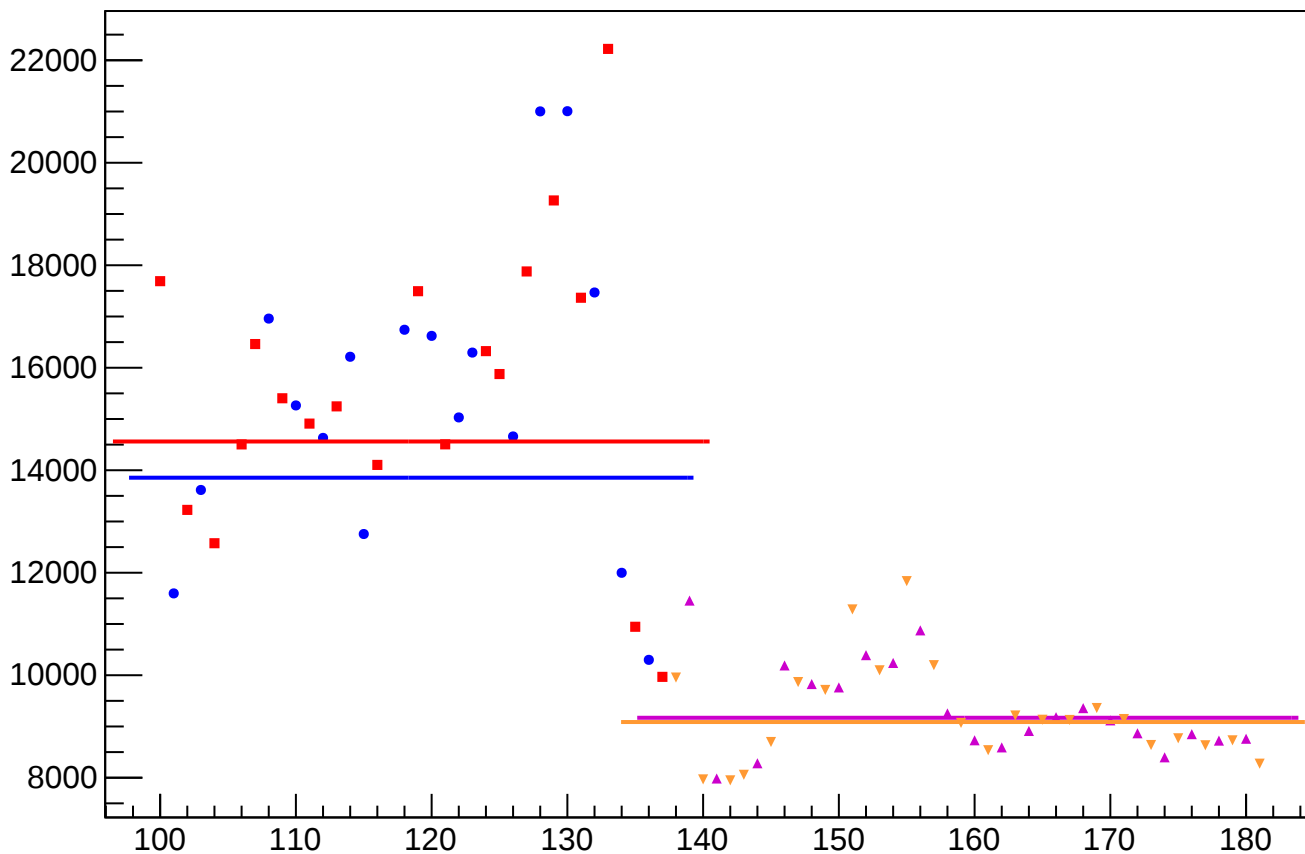
Right: 0.058 $\pm$ 3.918 χ^2/NDF : 40.8/35

In: -0.682 $\pm$ 2.109 χ^2/NDF : 53.6/37

Out: -7.701 $\pm$ 2.041 χ^2/NDF : 83.2/41

All: -4.307 $\pm$ 1.466 χ^2/NDF : 142.5/79

diff_bpm4acX_rms vs Slug, Sign Corrected



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

Left Out: 9086.892 $\pm$ 1.551 χ^2 /NDF:317376.7/22

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

Left In: 9169.910 $\pm$ 1.614 χ^2 /NDF:256574.9/20

Left: 9126.734 $\pm$ 1.118 χ^2 /NDF: 575327.4/43

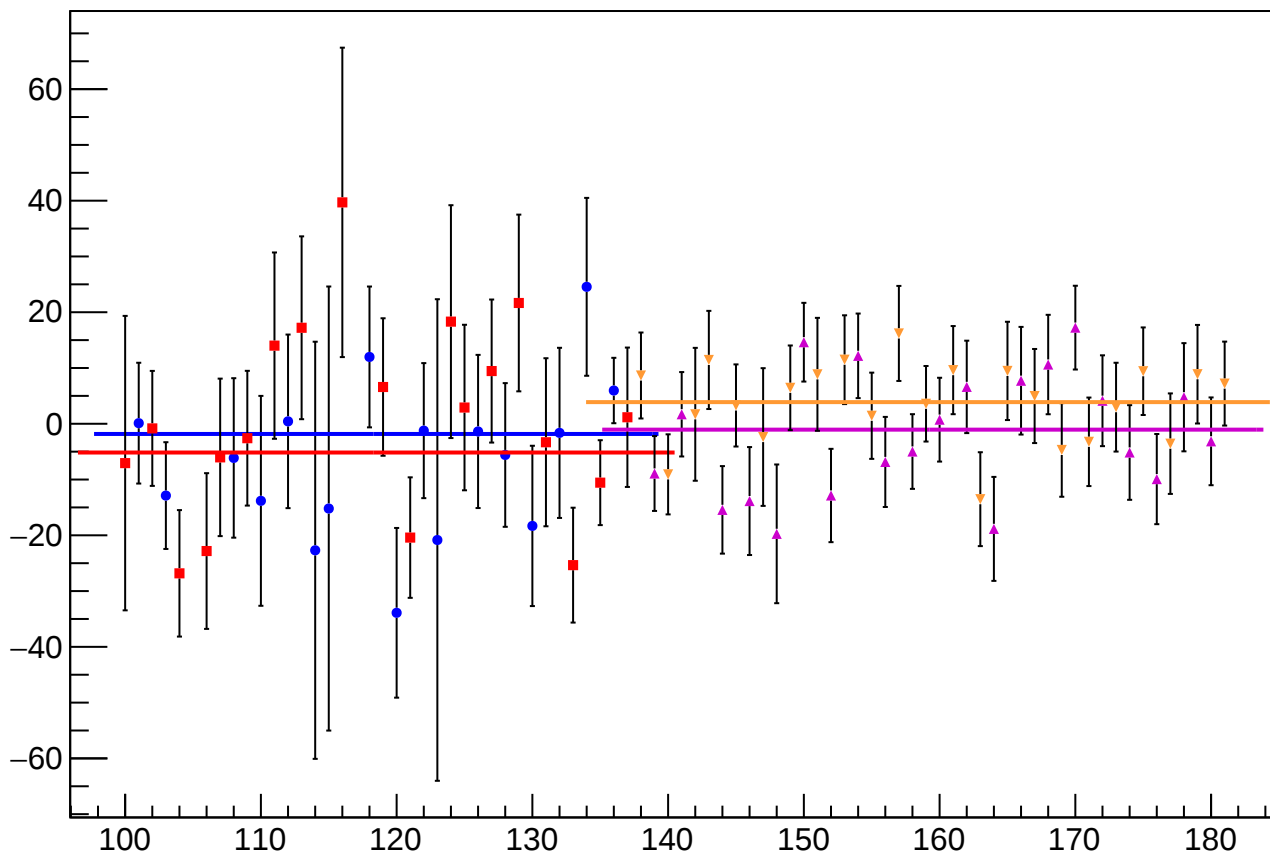
Right: 14203.439 $\pm$ 2.771 χ^2 /NDF: 1098217.6/35

In: 9856.587 $\pm$ 1.491 χ^2 /NDF:2097476.7/37

Out: 9820.133 $\pm$ 1.443 χ^2 /NDF:2462705.7/41

All: 9837.762 $\pm$ 1.037 χ^2 /NDF: 4560491.0/79

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.828 $\pm$ 3.100 χ^2/NDF : 14.0/16

Left Out: 3.882 $\pm$ 1.719 χ^2/NDF :16.9/22

Right Out: -5.156 $\pm$ 2.965 χ^2/NDF : 24.5/18

Left In: -1.054 $\pm$ 1.772 χ^2/NDF :35.0/20

Left: 1.489 $\pm$ 1.234 χ^2/NDF : 55.9/43

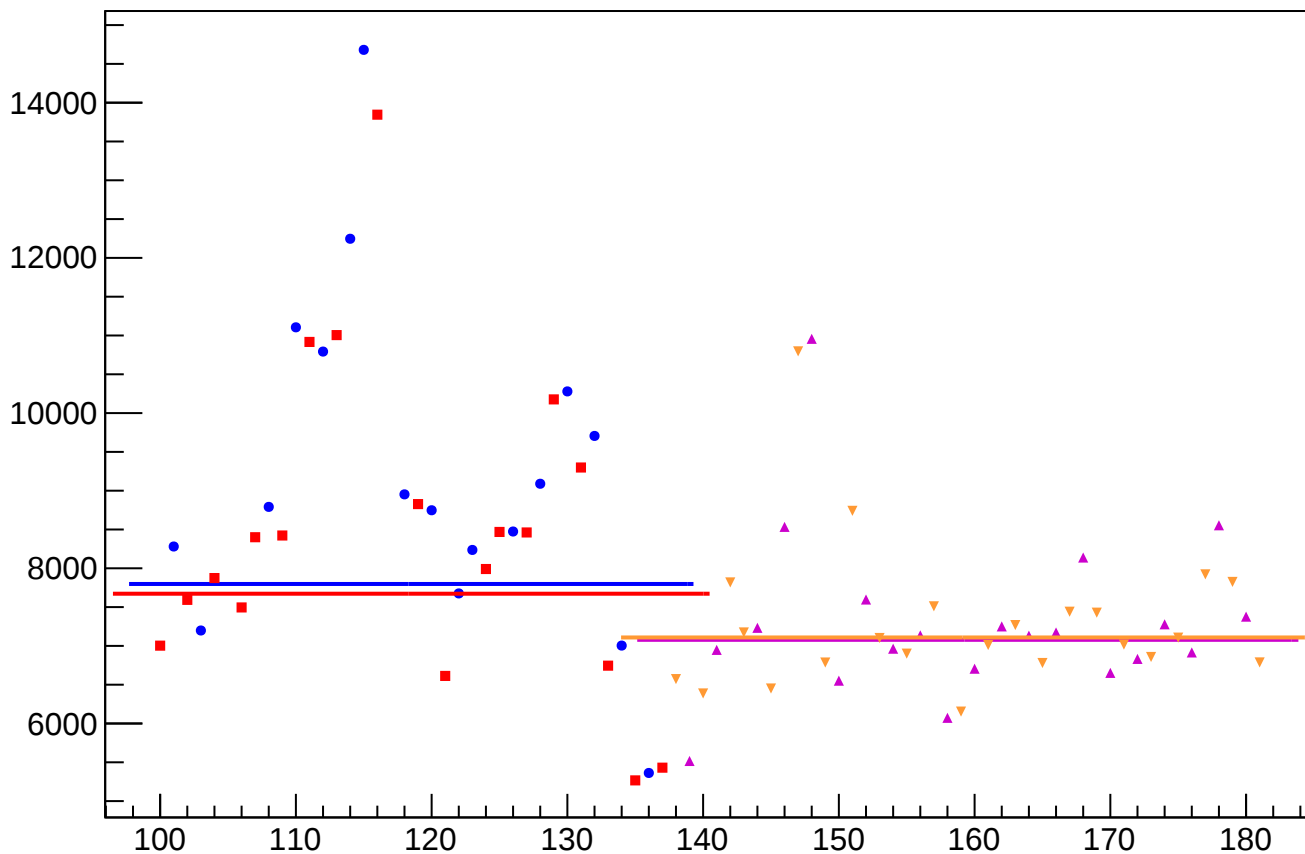
Right: -3.566 $\pm$ 2.142 χ^2/NDF : 39.2/35

In: -1.245 $\pm$ 1.539 χ^2/NDF :49.1/37

Out: 1.608 $\pm$ 1.487 χ^2/NDF :48.4/41

All: 0.230 $\pm$ 1.069 χ^2/NDF : 99.3/79

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7797.989 $\pm$ 2.192 χ^2/NDF : 736318.7/16

Left Out: 7108.629 $\pm$ 1.216 χ^2/NDF : 377731.3/22

Right Out: 7672.429 $\pm$ 2.096 χ^2/NDF : 676691.4/18

Left In: 7078.285 $\pm$ 1.253 χ^2/NDF : 507562.3/20

Left: 7093.919 $\pm$ 0.873 χ^2/NDF : 885595.5/43

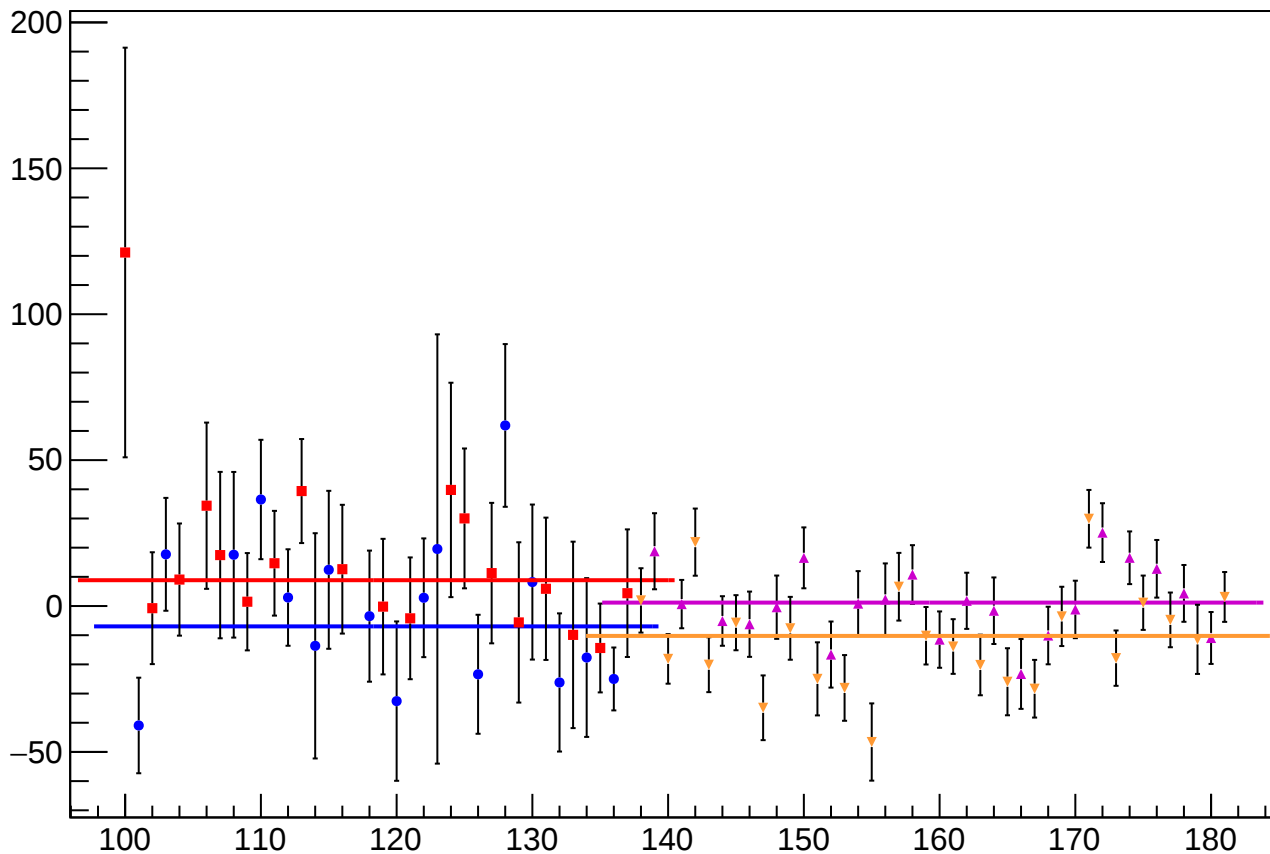
Right: 7732.419 $\pm$ 1.515 χ^2/NDF : 1414723.9/35

In: 7255.630 $\pm$ 1.088 χ^2/NDF : 1325136.9/37

Out: 7250.515 $\pm$ 1.052 χ^2/NDF : 1108547.5/41

All: 7252.986 $\pm$ 0.756 χ^2/NDF : 2433695.8/79

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 5.096 $\chi^2/\text{NDF}: 24.0/16$

Left Out: -10.239 ± 2.132 $\chi^2/\text{NDF}: 57.9/22$

Right Out: 8.848 ± 5.080 $\chi^2/\text{NDF}: 12.0/18$

Left In: 1.173 ± 2.211 $\chi^2/\text{NDF}: 27.6/20$

Left: -4.738 ± 1.535 $\chi^2/\text{NDF}: 99.3/43$

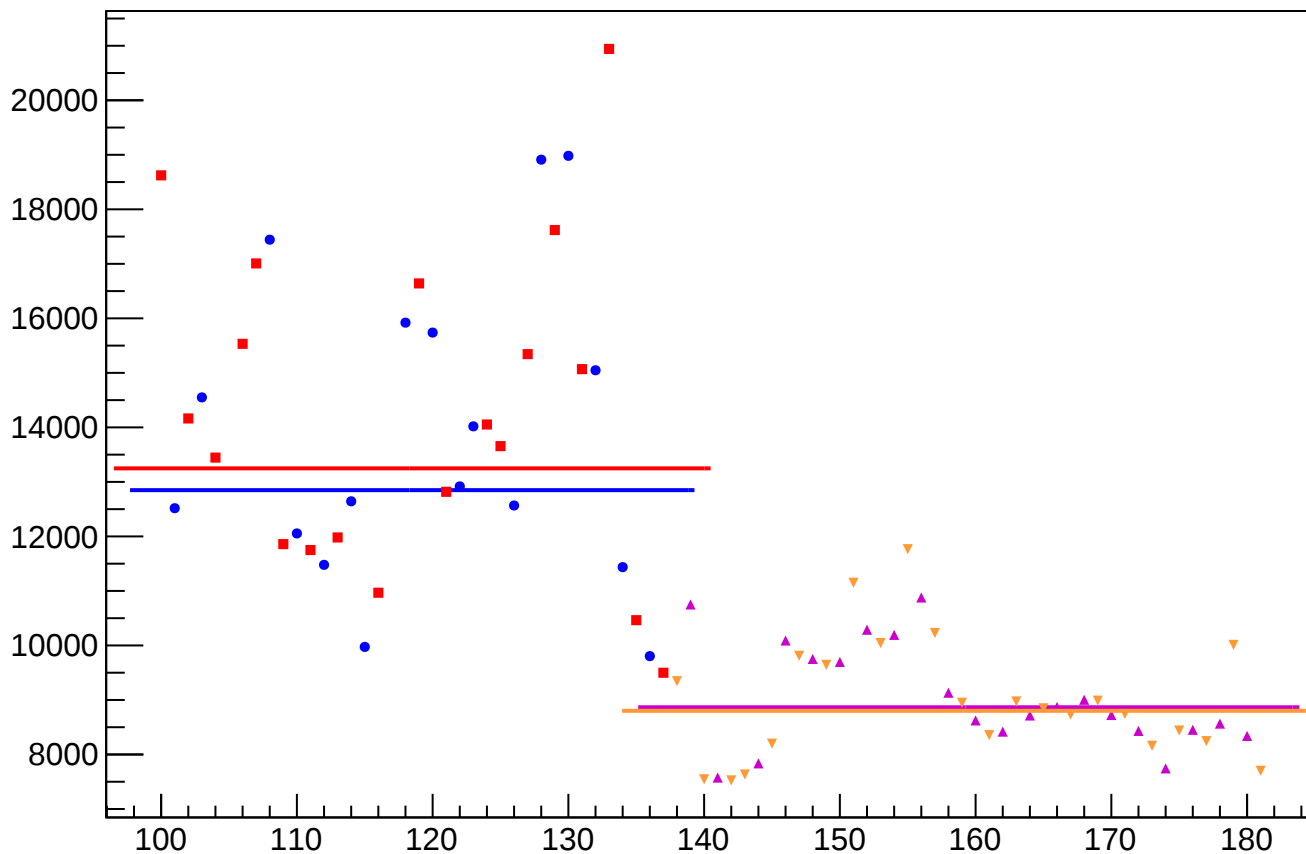
Right: 0.961 ± 3.598 $\chi^2/\text{NDF}: 40.9/35$

In: -0.117 ± 2.028 $\chi^2/\text{NDF}: 53.8/37$

Out: -7.380 ± 1.966 $\chi^2/\text{NDF}: 81.9/41$

All: -3.861 ± 1.412 $\chi^2/\text{NDF}: 142.4/79$

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

Left Out: 8801.158 $\pm$ 1.508 χ^2 /NDF: 445912.9/22

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

Left In: 8866.177 $\pm$ 1.563 χ^2 /NDF: 337988.9/20

Left: 8832.499 $\pm$ 1.085 χ^2 /NDF: 784798.0/43

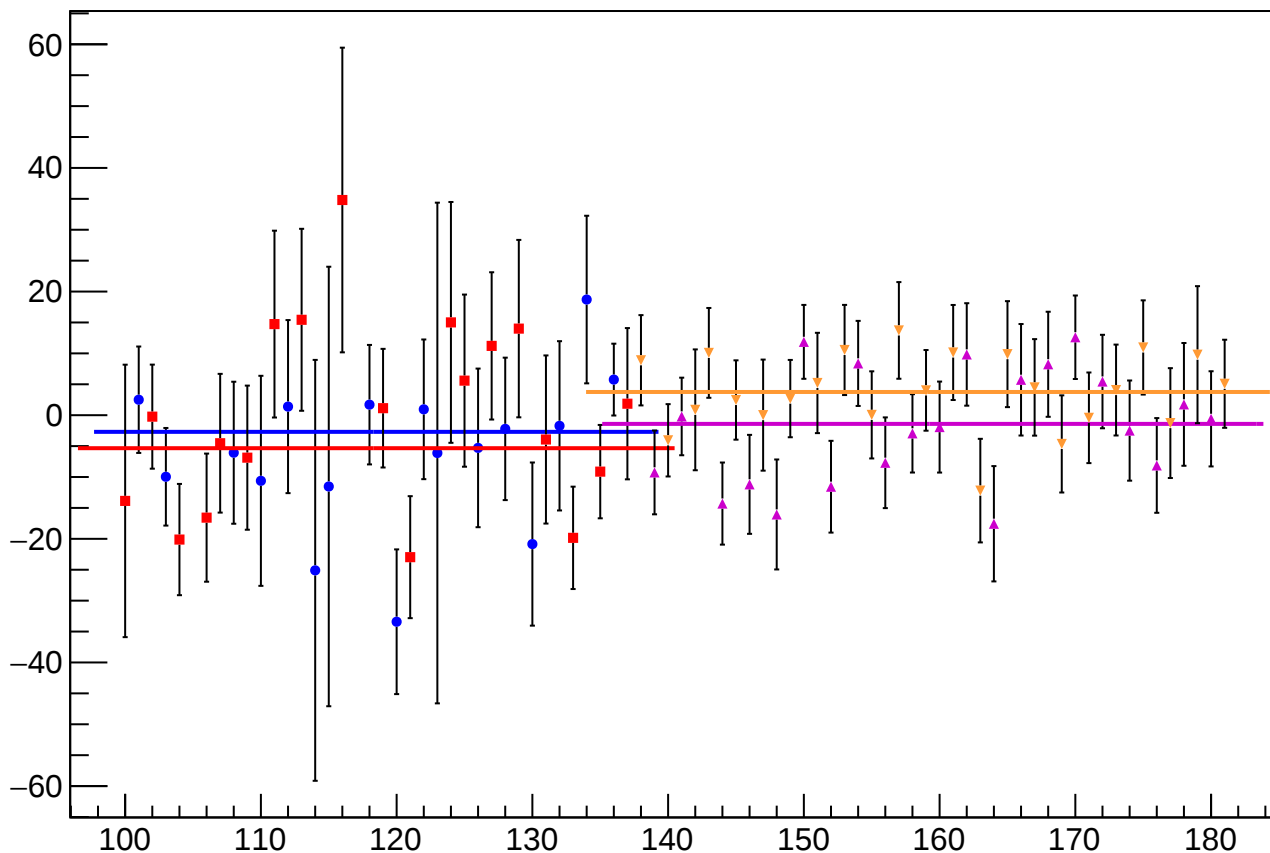
Right: 13049.037 $\pm$ 2.544 χ^2 /NDF: 1045578.8/35

In: 9496.872 $\pm$ 1.434 χ^2 /NDF: 1918249.9/37

Out: 9467.378 $\pm$ 1.390 χ^2 /NDF: 2236094.8/41

All: 9481.670 $\pm$ 0.998 χ^2 /NDF: 4154562.8/79

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.694 $\pm$ 2.736 χ^2/NDF : 15.9/16

Left Out: 3.756 $\pm$ 1.570 χ^2/NDF : 14.0/22

Right Out: -5.339 $\pm$ 2.592 χ^2/NDF : 23.6/18

Left In: -1.407 $\pm$ 1.626 χ^2/NDF : 31.8/20

Left: 1.266 $\pm$ 1.129 χ^2/NDF : 51.0/43

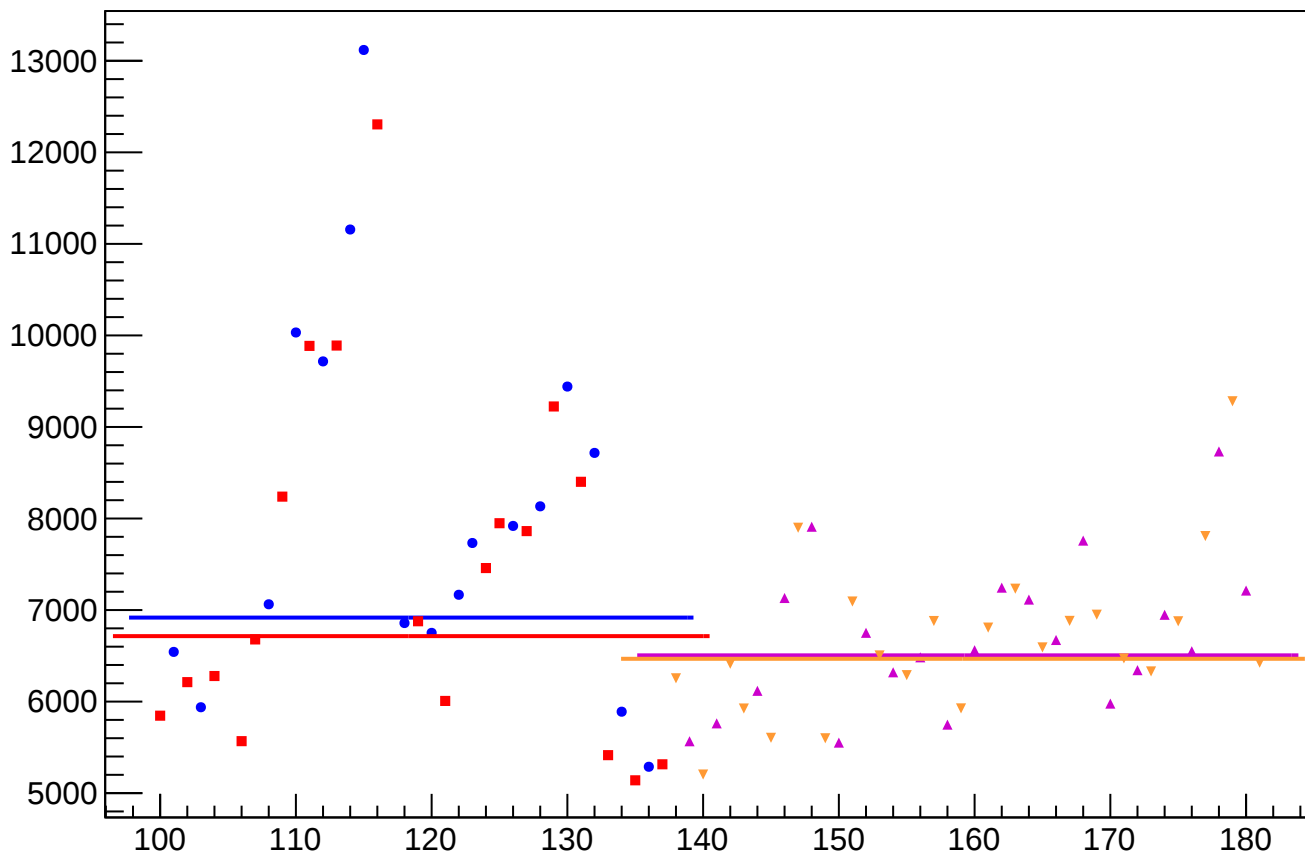
Right: -4.088 $\pm$ 1.882 χ^2/NDF : 39.9/35

In: -1.742 $\pm$ 1.398 χ^2/NDF : 47.8/37

Out: 1.316 $\pm$ 1.343 χ^2/NDF : 46.6/41

All: -0.152 $\pm$ 0.968 χ^2/NDF : 96.9/79

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6917.700 $\pm$ 1.935 χ^2/NDF : 587164.4/16

Left Out: 6467.548 $\pm$ 1.110 χ^2/NDF : 479576.7/22

Right Out: 6715.087 $\pm$ 1.833 χ^2/NDF : 660008.2/18

Left In: 6505.178 $\pm$ 1.150 χ^2/NDF : 423843.9/20

Left: 6485.700 $\pm$ 0.799 χ^2/NDF : 903975.0/43

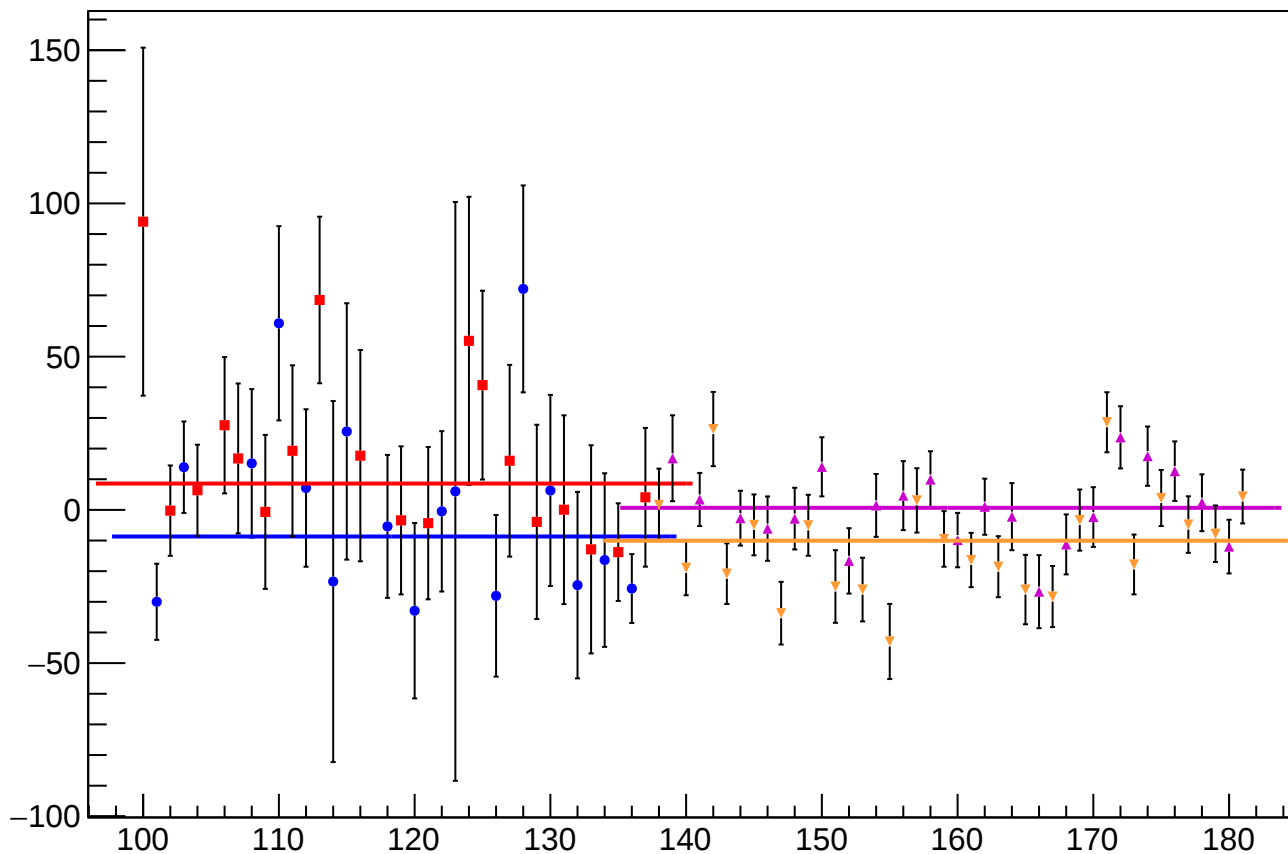
Right: 6810.919 $\pm$ 1.331 χ^2/NDF : 1252951.3/35

In: 6612.837 $\pm$ 0.988 χ^2/NDF : 1044599.3/37

Out: 6533.965 $\pm$ 0.949 χ^2/NDF : 1152928.3/41

All: 6571.815 $\pm$ 0.685 χ^2/NDF : 2200838.9/79

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.685 ± 5.401 χ^2/NDF : 22.1/16

Left Out: -10.061 ± 2.081 χ^2/NDF : 59.4/22

Right Out: 8.586 ± 5.516 χ^2/NDF : 14.0/18

Left In: 0.674 ± 2.156 χ^2/NDF : 27.9/20

Left: -4.883 ± 1.497 χ^2/NDF : 100.2/43

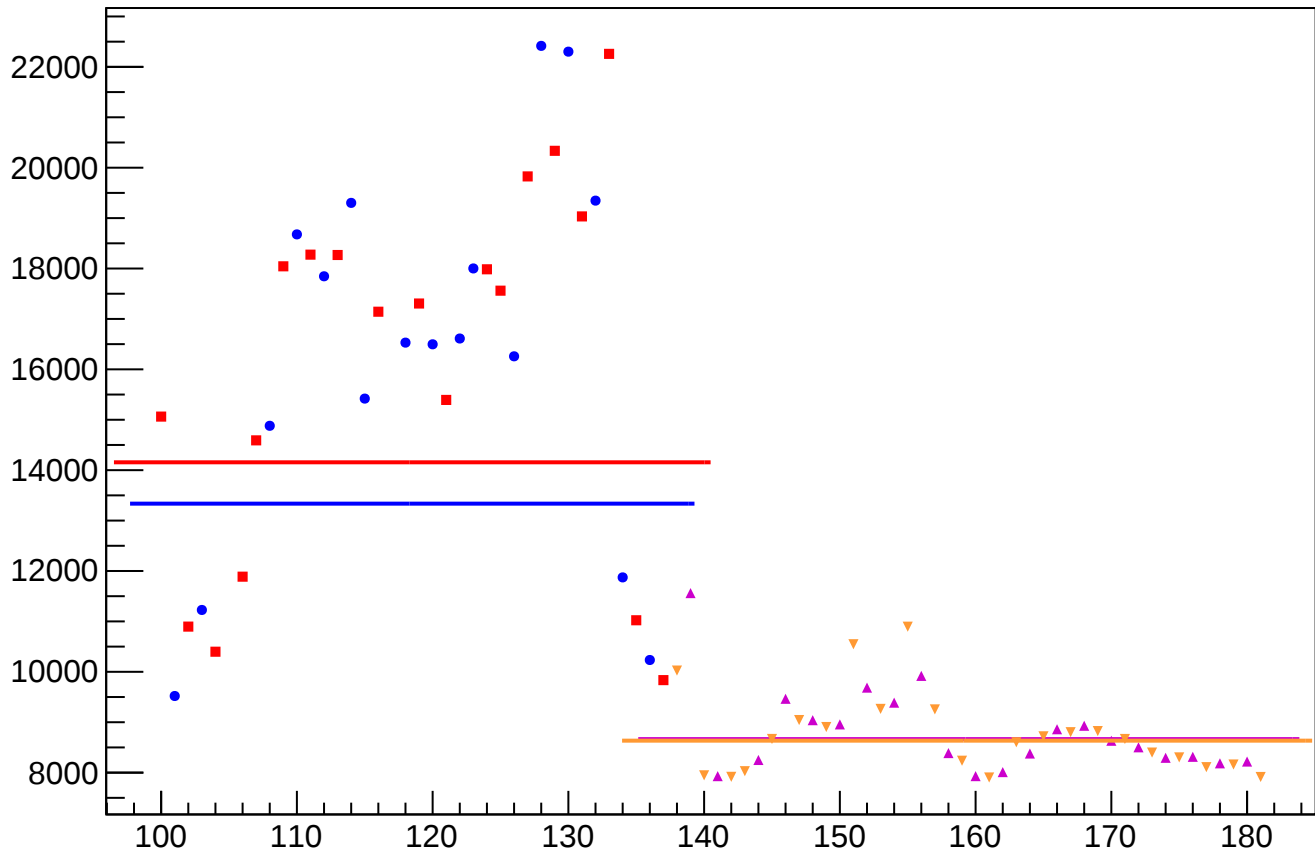
Right: -0.232 ± 3.859 χ^2/NDF : 41.1/35

In: -0.612 ± 2.002 χ^2/NDF : 52.7/37

Out: -7.738 ± 1.947 χ^2/NDF : 83.4/41

All: -4.275 ± 1.396 χ^2/NDF : 142.5/79

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13335.843+/-3.819 χ^2/NDF : 1049247.5/16

Left Out: 8634.357+/-1.472 χ^2/NDF : 241111.6/22

Right Out: 14155.967+/-3.901 χ^2/NDF : 932431.0/18

Left In: 8665.449+/-1.525 χ^2/NDF : 219073.4/20

Left: 8649.353+/-1.059 χ^2/NDF : 460400.4/43

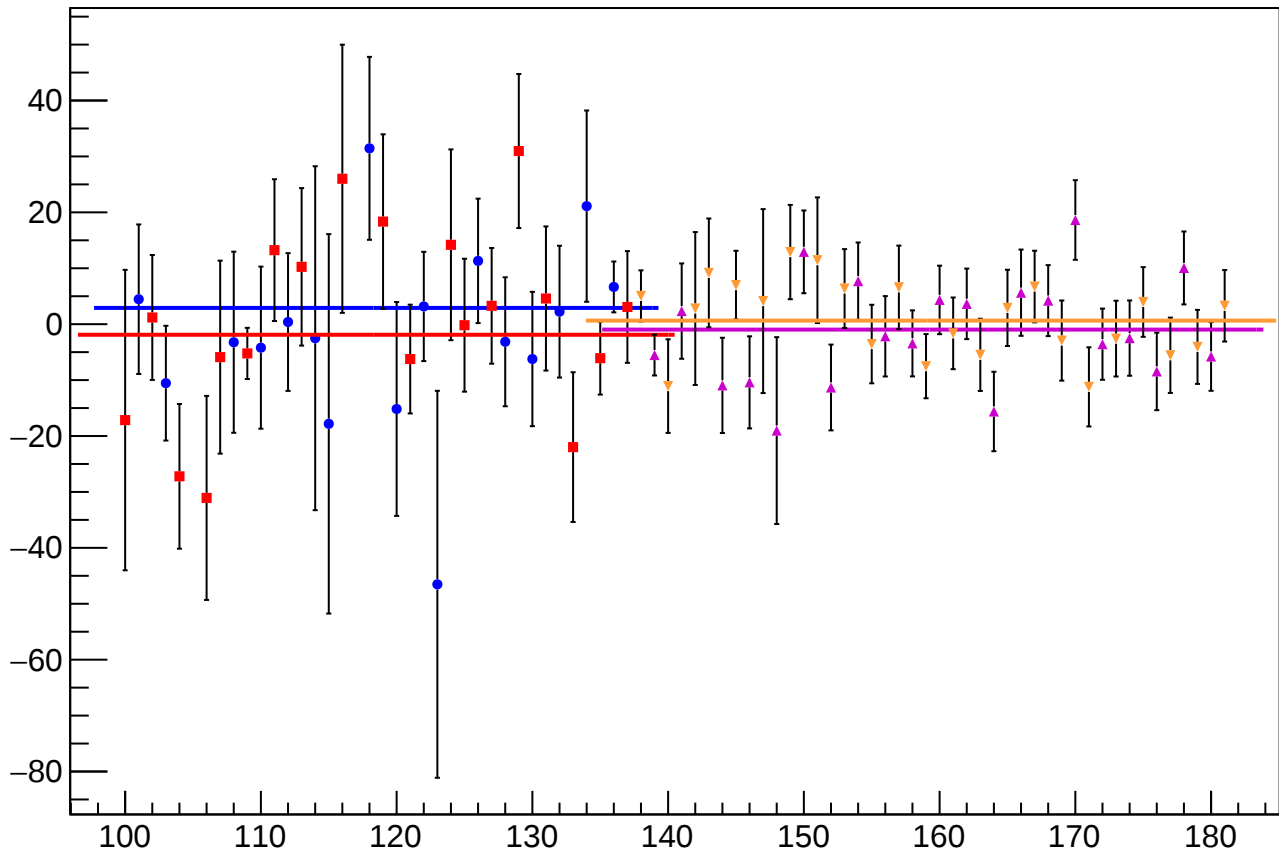
Right: 13737.272+/-2.729 χ^2/NDF : 2004248.2/35

In: 9307.343+/-1.416 χ^2/NDF : 2558159.8/37

Out: 9322.325+/-1.377 χ^2/NDF : 2927782.6/41

All: 9315.044+/-0.987 χ^2/NDF : 5485999.9/79

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.911 $\pm$ 2.758 χ^2/NDF : 11.8/16

Left Out: 0.641 $\pm$ 1.459 χ^2/NDF : 18.6/22

Right Out: -1.892 $\pm$ 2.444 χ^2/NDF : 22.8/18

Left In: -0.968 $\pm$ 1.450 χ^2/NDF : 32.0/20

Left: -0.169 $\pm$ 1.029 χ^2/NDF : 51.3/43

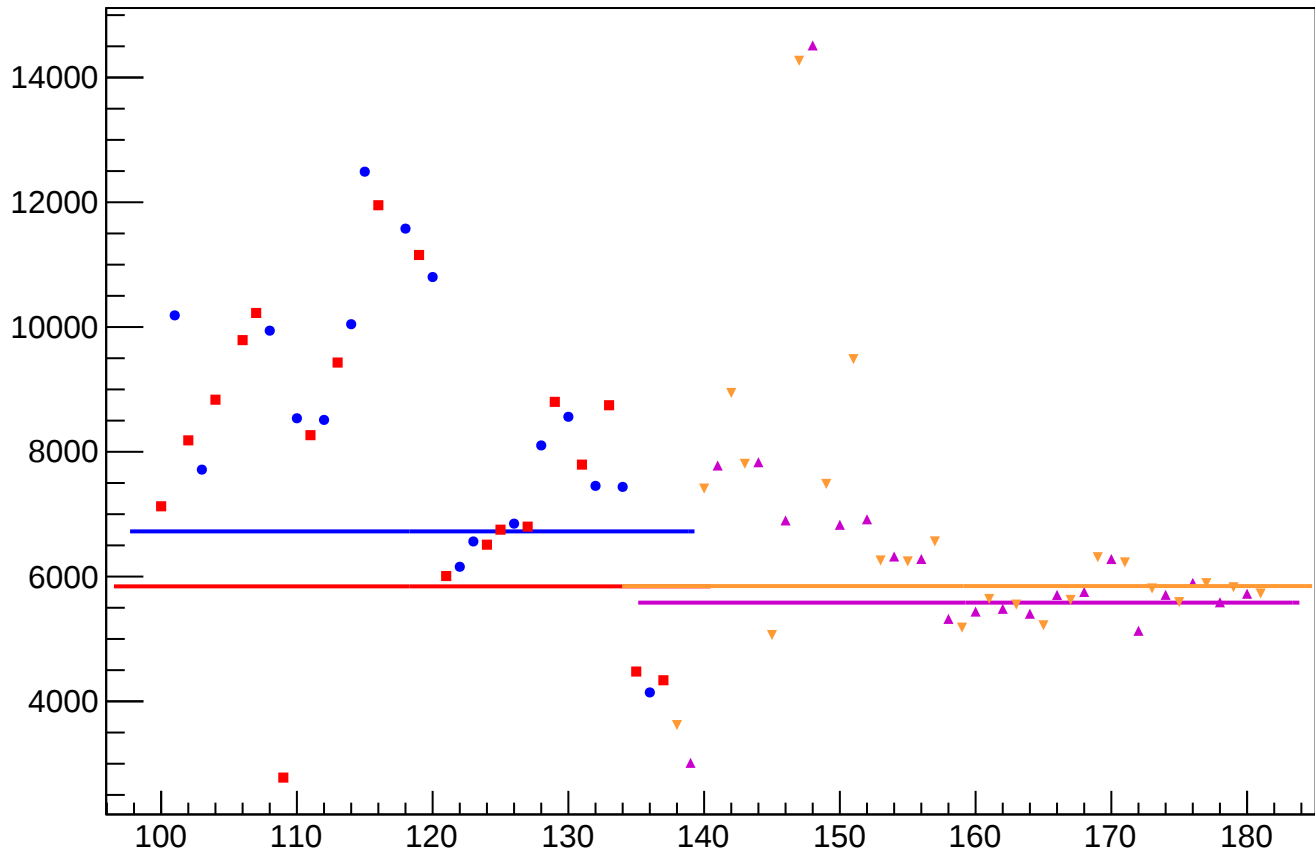
Right: 0.221 $\pm$ 1.829 χ^2/NDF : 36.3/35

In: -0.128 $\pm$ 1.284 χ^2/NDF : 45.4/37

Out: -0.025 $\pm$ 1.253 χ^2/NDF : 42.2/41

All: -0.075 $\pm$ 0.897 χ^2/NDF : 87.6/79

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6724.403+/-1.950 χ^2/NDF : 1391680.1/16

Left Out: 5847.696+/-1.032 χ^2/NDF : 1671656.0/22

Right Out: 5843.007+/-1.728 χ^2/NDF : 2280742.0/18

Left In: 5582.251+/-1.025 χ^2/NDF : 2086021.1/20

Left: 5714.130+/-0.727 χ^2/NDF : 3790967.3/43

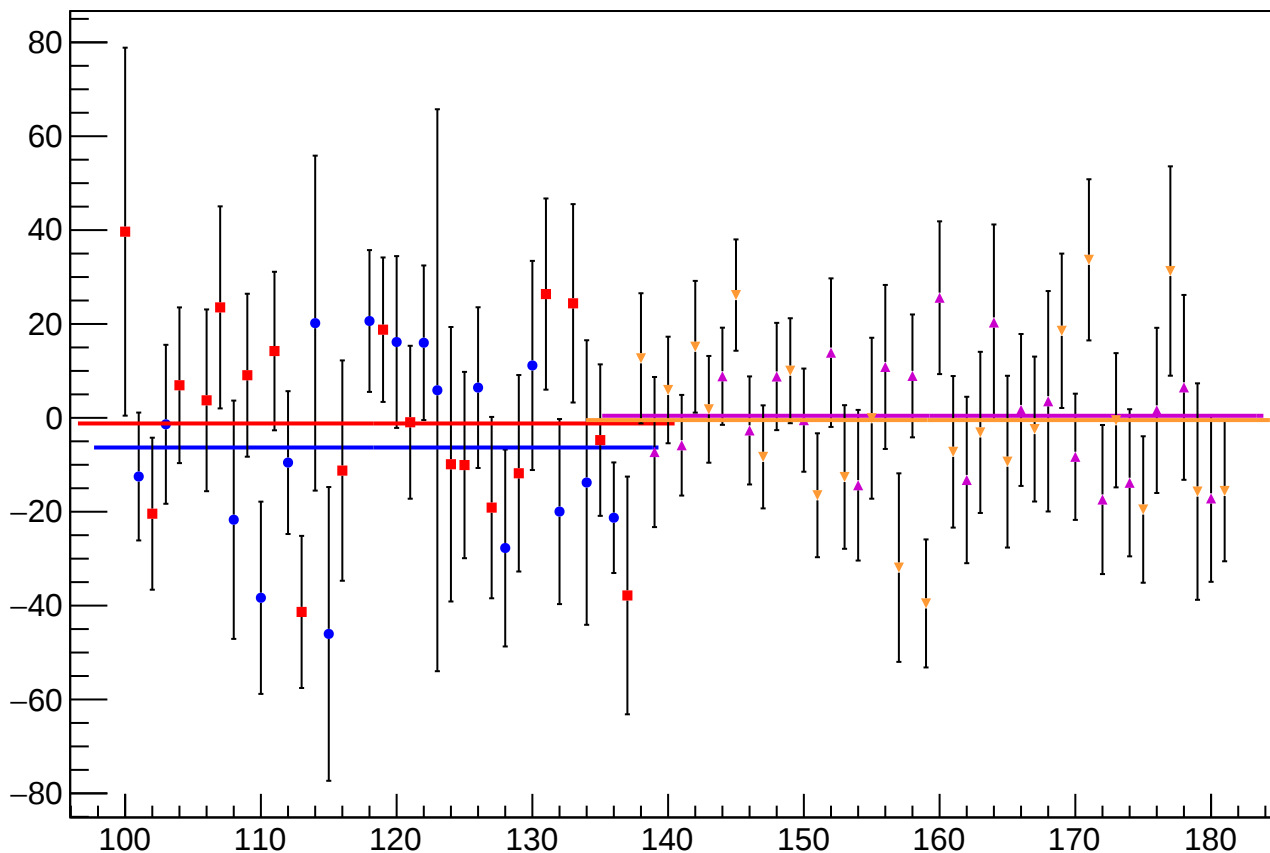
Right: 6230.735+/-1.293 χ^2/NDF : 3786855.2/35

In: 5829.687+/-0.908 χ^2/NDF : 3746455.1/37

Out: 5846.463+/-0.886 χ^2/NDF : 3952403.4/41

All: 5838.277+/-0.634 χ^2/NDF : 7699033.4/79

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.317 $\pm$ 4.525 χ^2/NDF : 16.2/16

Left Out: -0.479 $\pm$ 3.025 χ^2/NDF : 32.4/22

Right Out: -1.197 $\pm$ 4.382 χ^2/NDF : 20.2/18

Left In: 0.444 $\pm$ 3.165 χ^2/NDF : 11.7/20

Left: -0.038 $\pm$ 2.187 χ^2/NDF : 44.2/43

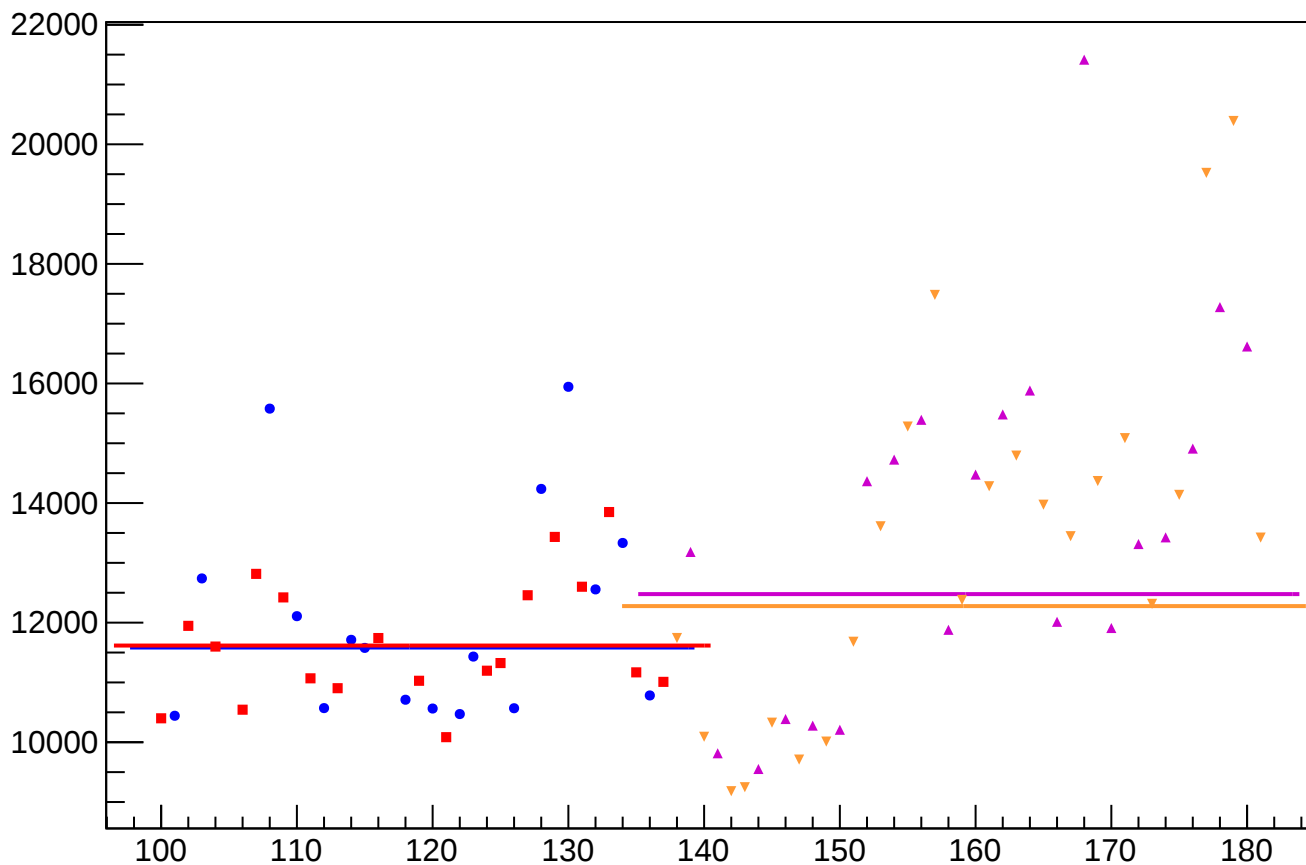
Right: -3.675 $\pm$ 3.148 χ^2/NDF : 37.1/35

In: -1.777 $\pm$ 2.593 χ^2/NDF : 29.5/37

Out: -0.711 $\pm$ 2.489 χ^2/NDF : 52.6/41

All: -1.222 $\pm$ 1.796 χ^2/NDF : 82.1/79

diff_bpm11X_rms vs Slug, Sign Corrected



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

Left Out: 12276.683+/-2.139 χ^2/NDF :1464113.9/22

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

Left In: 12477.296+/-2.238 χ^2/NDF :1354000.3/20

Left: 12372.452+/-1.546 χ^2/NDF : 2822314.0/43

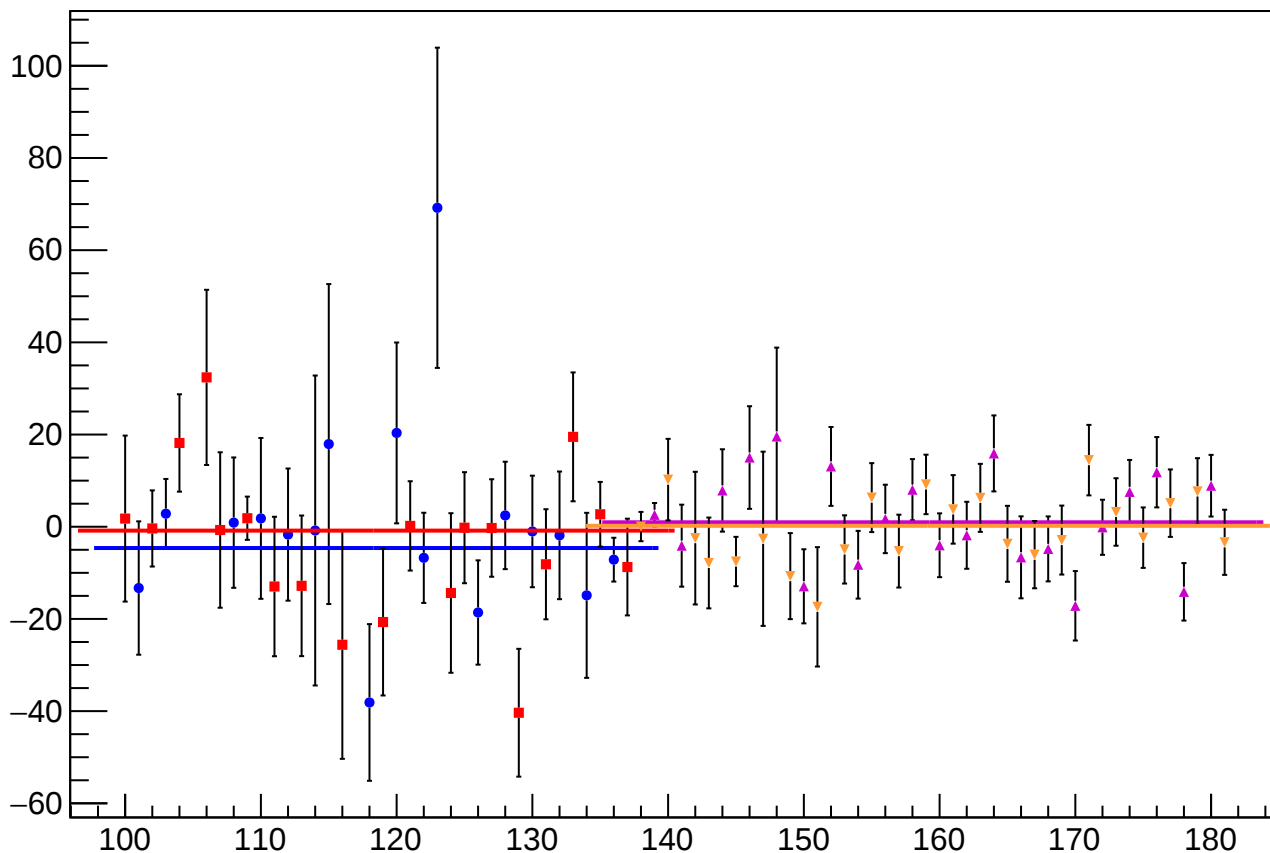
Right: 11600.972+/-2.226 χ^2/NDF : 337068.1/35

In: 12183.867+/-1.834 χ^2/NDF :1647887.0/37

Out: 12063.729+/-1.760 χ^2/NDF :1590293.2/41

All: 12121.337+/-1.270 χ^2/NDF : 3240414.0/71

diff_bpm11Y_mean vs Slug, Sign Corrected



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

Left Out: 0.204 ± 1.470 χ^2/NDF : 18.5/22

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

Left In: 0.966 ± 1.420 χ^2/NDF : 32.9/20

Left: 0.598 ± 1.021 χ^2/NDF : 51.6/43

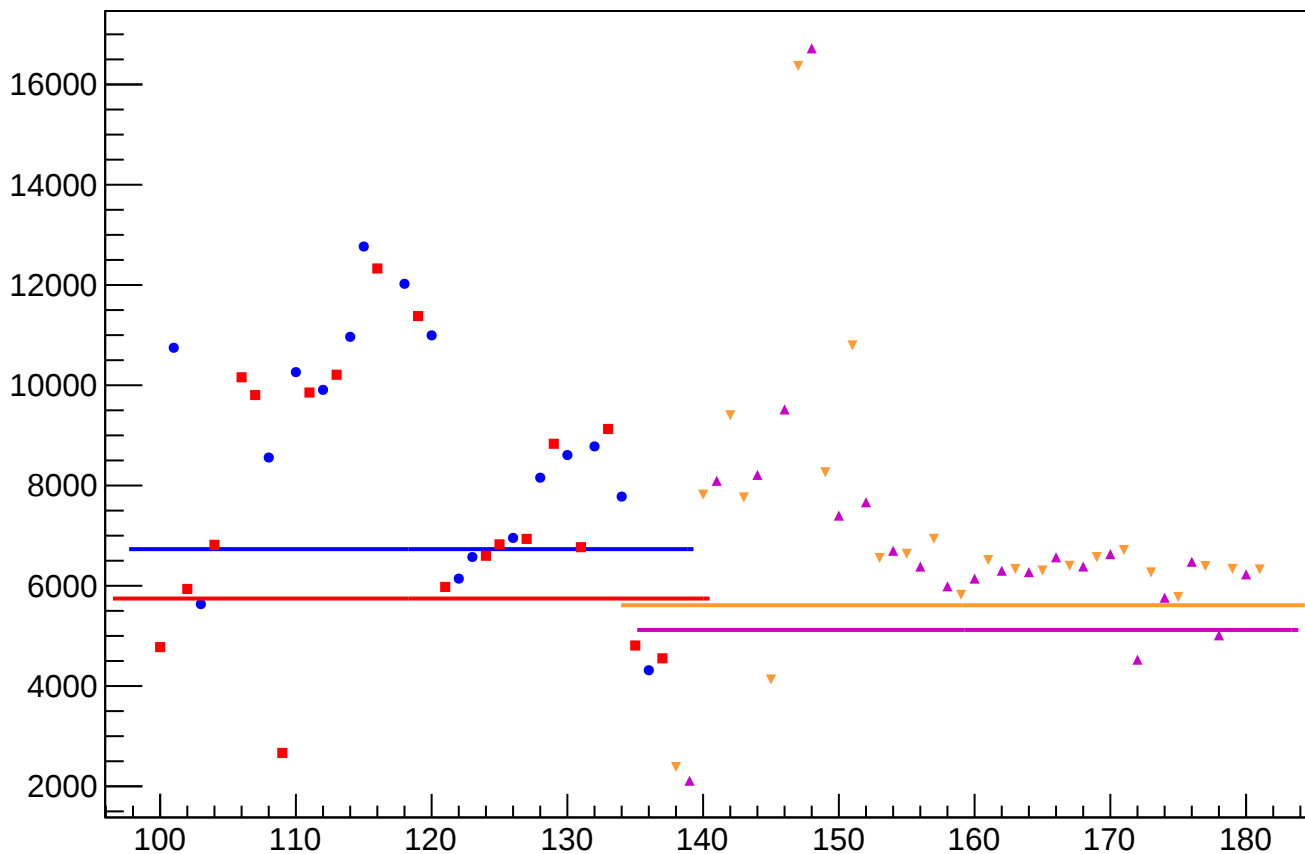
Right: -2.475 ± 1.830 χ^2/NDF : 38.4/35

In: -0.188 ± 1.265 χ^2/NDF : 50.9/37

Out: -0.075 ± 1.258 χ^2/NDF : 41.2/41

All: -0.131 ± 0.892 χ^2/NDF : 92.1/79

diff_bpm11Y_rms vs Slug, Sign Corrected



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

Left Out: 5612.141+/-1.039 χ^2/NDF : 4073718.4/22

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

Left In: 5119.139+/-1.004 χ^2/NDF : 5270878.6/20

Left: 5357.200+/-0.722 χ^2/NDF : 9460997.6/43

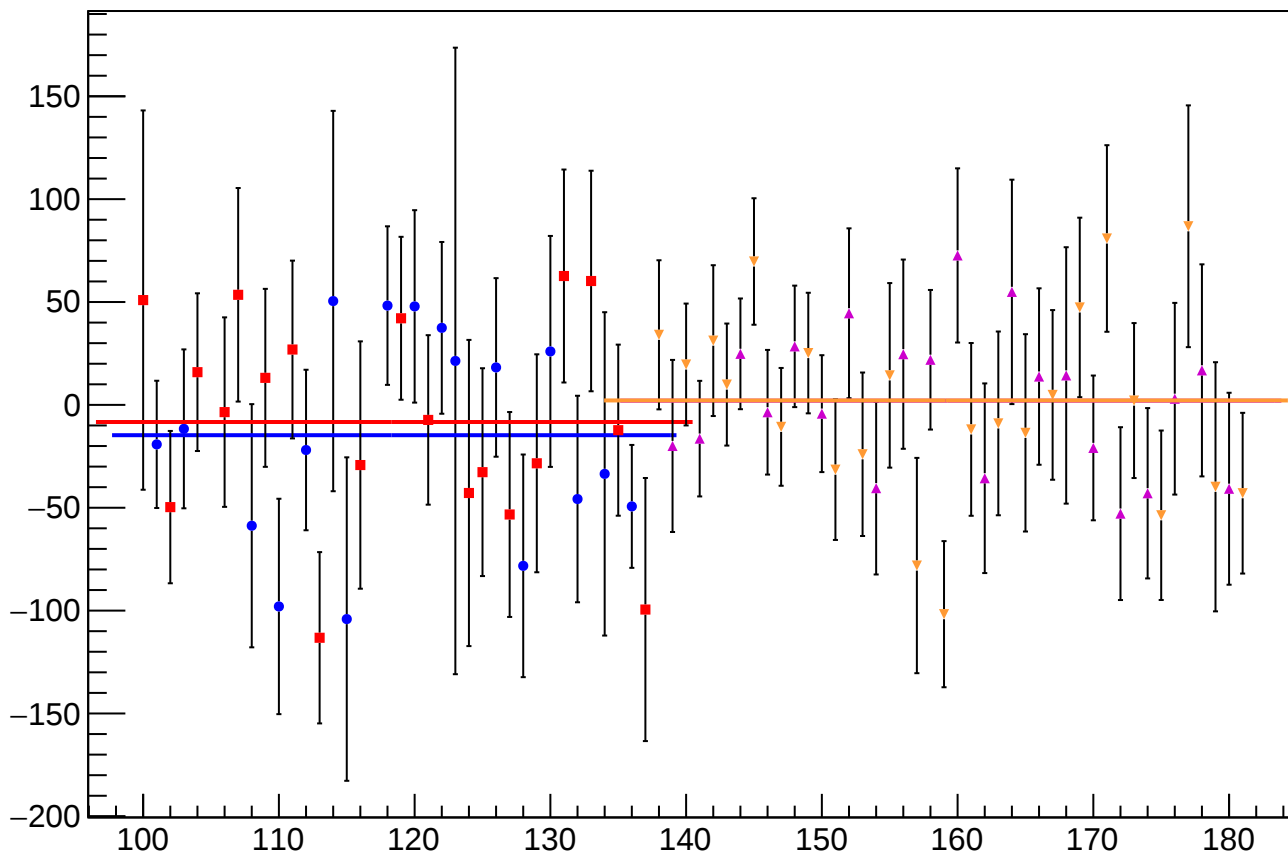
Right: 6172.245+/-1.294 χ^2/NDF : 3751459.2/35

In: 5452.324+/-0.894 χ^2/NDF : 7248065.7/37

Out: 5647.893+/-0.889 χ^2/NDF : 6242771.8/41

All: 5550.669+/-0.631 χ^2/NDF : 13514883.3/77

diff_bpm12X_mean vs Slug, Sign Corrected



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

Left Out: 2.159 ± 7.910 χ^2/NDF : 30.0/22

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

Left In: 2.039 ± 8.273 χ^2/NDF : 13.7/20

Left: 2.101 ± 5.717 χ^2/NDF : 43.7/43

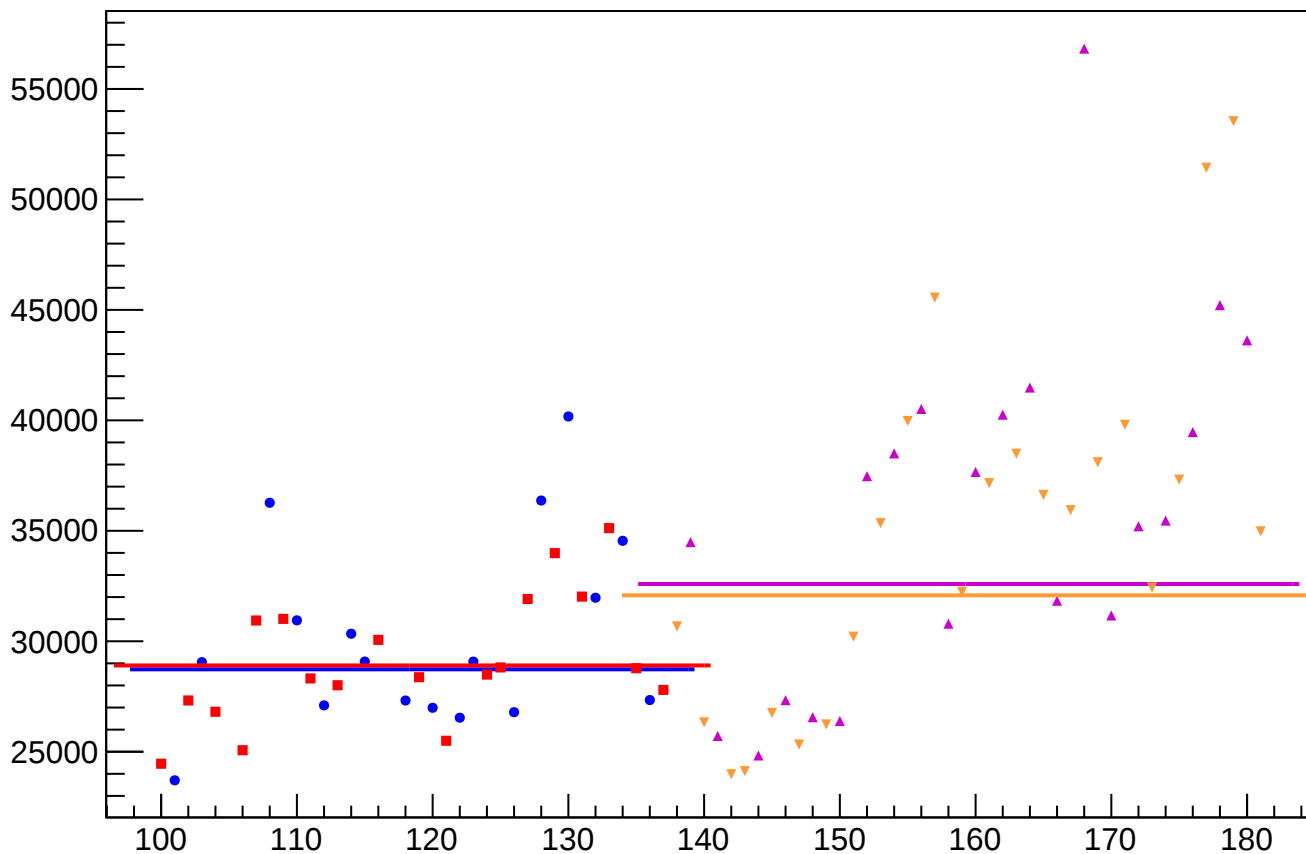
Right: -11.435 ± 7.828 χ^2/NDF : 34.9/35

In: -3.857 ± 6.662 χ^2/NDF : 30.4/37

Out: -1.451 ± 6.404 χ^2/NDF : 50.0/41

All: -2.607 ± 4.617 χ^2/NDF : 80.5/79

diff_bpm12X_rms vs Slug, Sign Corrected



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

Left Out: 32079.840+/-5.593 χ^2/NDF : 1498743.1/22

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

Left In: 32590.592+/-5.850 χ^2/NDF : 1398291.4/20

Left: 32323.763+/-4.042 χ^2/NDF : 2901017.3/43

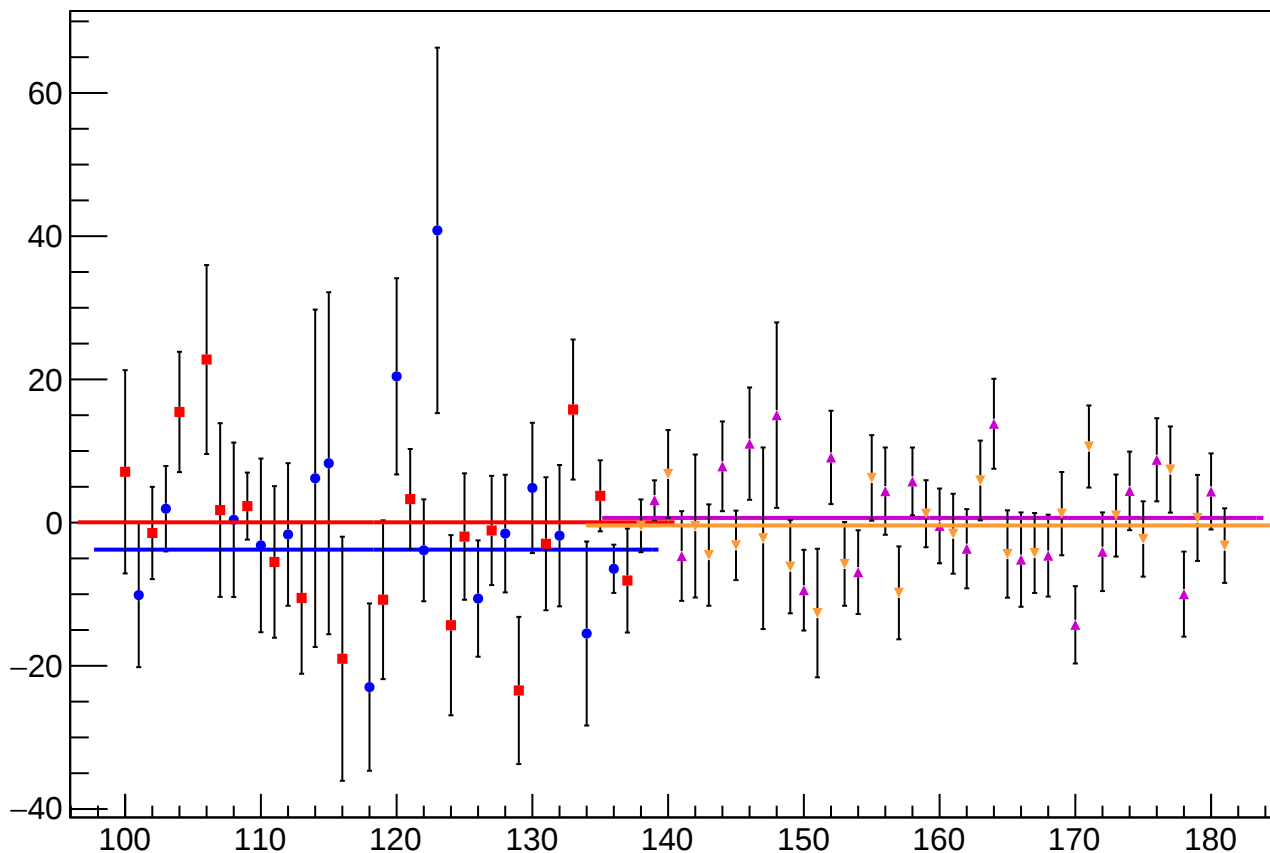
Right: 28820.430+/-5.536 χ^2/NDF : 367736.6/35

In: 31233.616+/-4.711 χ^2/NDF : 1806211.0/37

Out: 30986.626+/-4.528 χ^2/NDF : 1722341.6/41

All: 31105.250+/-3.265 χ^2/NDF : 3529981.4/71

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.773 ± 2.010 χ^2/NDF : 14.0/16

Left Out: -0.395 ± 1.209 χ^2/NDF : 17.2/22

Right Out: 0.042 ± 1.894 χ^2/NDF : 21.7/18

Left In: 0.654 ± 1.193 χ^2/NDF : 35.1/20

Left: 0.137 ± 0.849 χ^2/NDF : 52.7/43

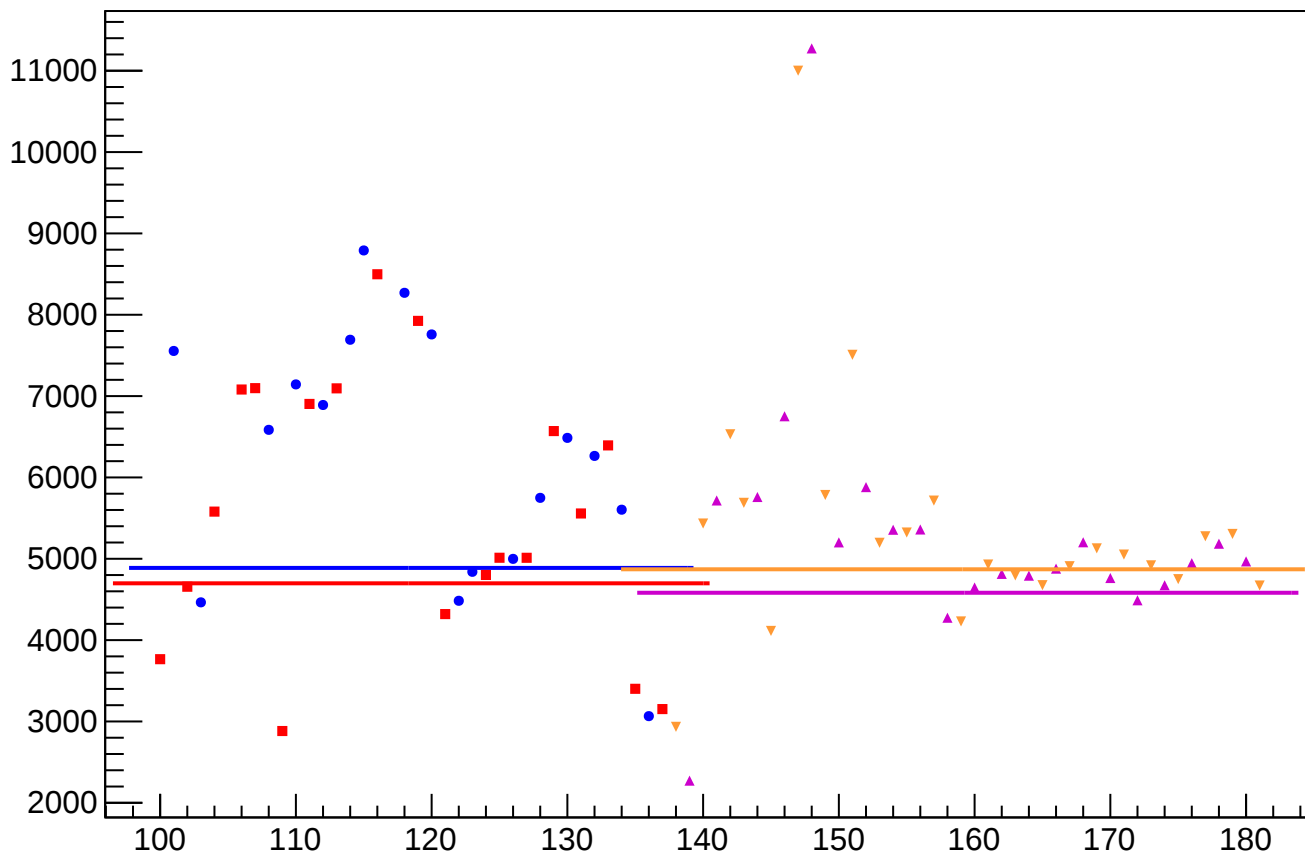
Right: -1.752 ± 1.378 χ^2/NDF : 37.6/35

In: -0.499 ± 1.026 χ^2/NDF : 52.7/37

Out: -0.269 ± 1.019 χ^2/NDF : 38.9/41

All: -0.383 ± 0.723 χ^2/NDF : 91.6/79

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.759 $\pm$ 1.421 χ^2/NDF : 1408633.3/16

Left Out: 4870.730 $\pm$ 0.855 χ^2/NDF : 1500843.9/22

Right Out: 4698.374 $\pm$ 1.339 χ^2/NDF : 1316063.8/18

Left In: 4582.172 $\pm$ 0.844 χ^2/NDF : 2478112.6/20

Left: 4724.510 $\pm$ 0.601 χ^2/NDF : 4036658.1/43

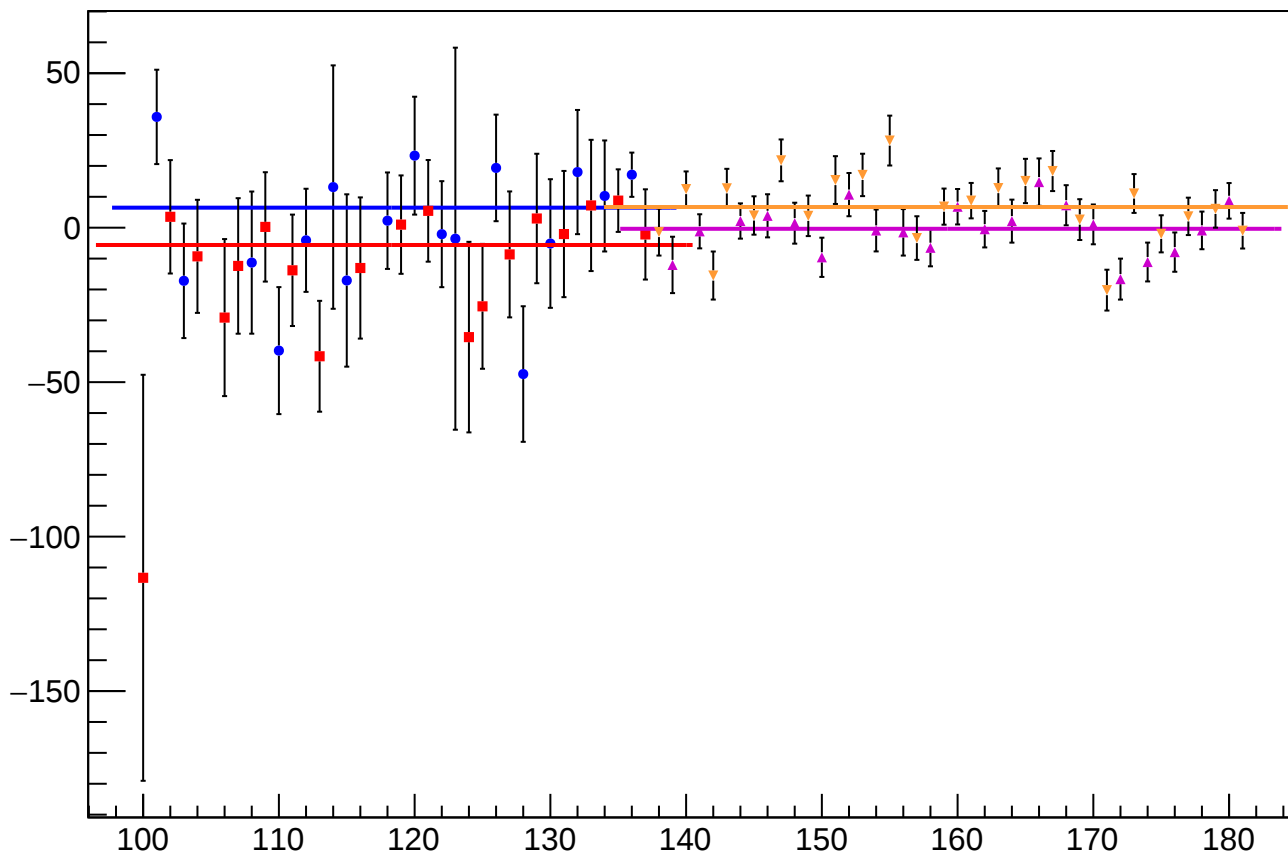
Right: 4787.445 $\pm$ 0.975 χ^2/NDF : 2734101.5/35

In: 4661.793 $\pm$ 0.726 χ^2/NDF : 3920927.7/37

Out: 4820.816 $\pm$ 0.721 χ^2/NDF : 2828673.0/41

All: 4741.828 $\pm$ 0.511 χ^2/NDF : 6773781.1/79

diff_bpm16X_mean vs Slug, Sign Corrected



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

Left Out: 6.689 $\pm$ 1.355 χ^2/NDF : 56.5/22

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

Left In: -0.360 $\pm$ 1.406 χ^2/NDF : 27.8/20

Left: 3.296 $\pm$ 0.976 χ^2/NDF : 97.3/43

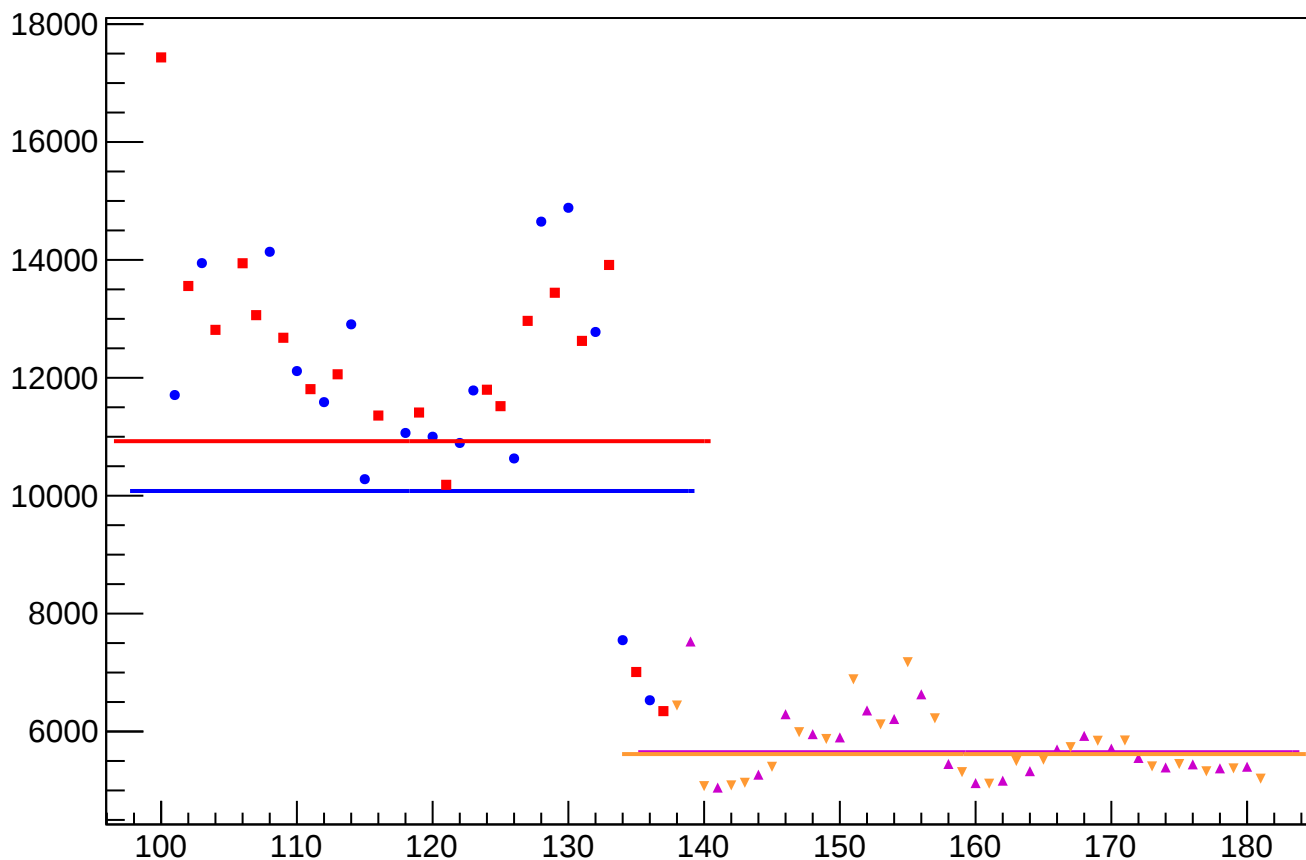
Right: 0.666 $\pm$ 2.933 χ^2/NDF : 40.5/35

In: 0.369 $\pm$ 1.329 χ^2/NDF : 53.1/37

Out: 5.544 $\pm$ 1.290 χ^2/NDF : 77.7/41

All: 3.034 $\pm$ 0.926 χ^2/NDF : 138.6/79

diff_bpm16X_rms vs Slug, Sign Corrected



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

Left Out: 5616.964 $\pm$ 0.958 χ^2 /NDF: 277496.2/22

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

Left In: 5648.812 $\pm$ 0.994 χ^2 /NDF: 264108.5/20

Left: 5632.293 $\pm$ 0.690 χ^2 /NDF: 542136.6/43

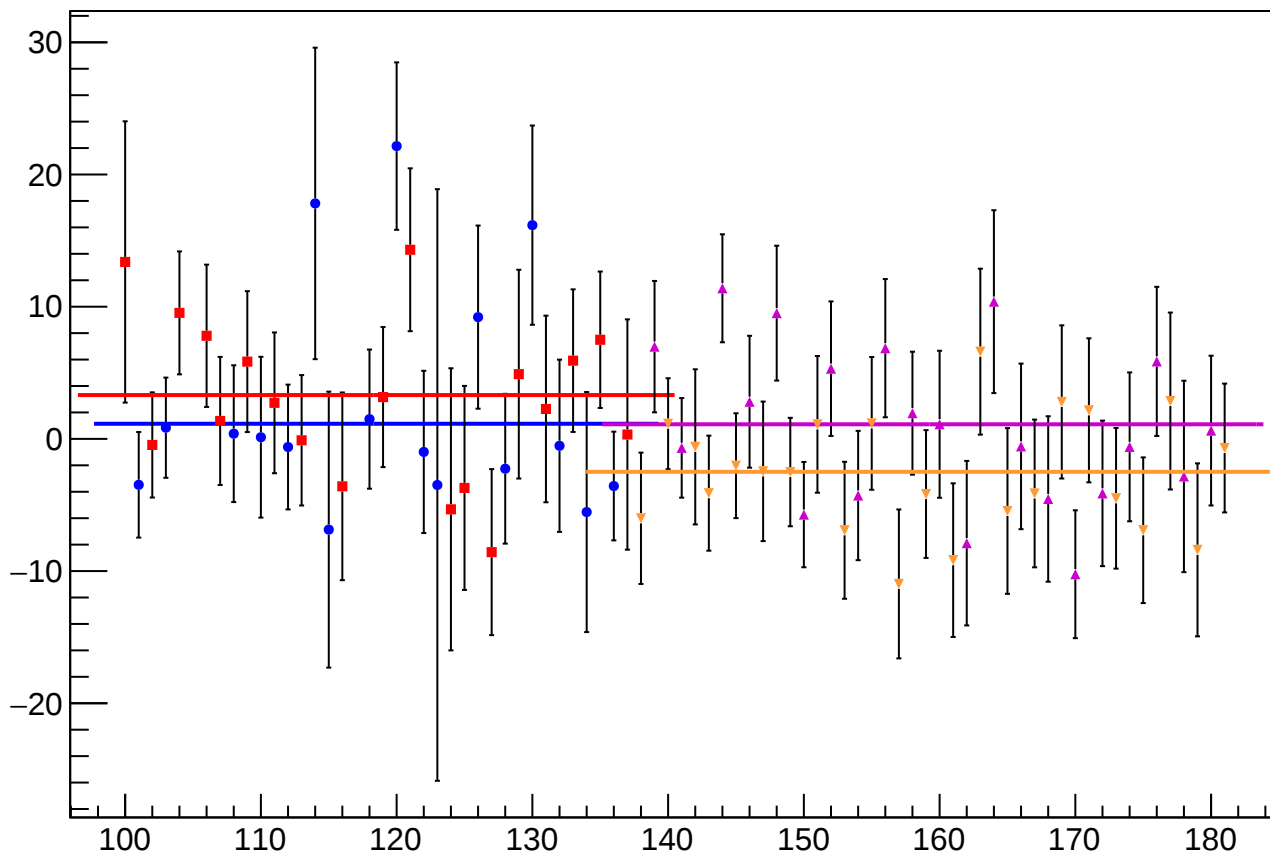
Right: 10486.688 $\pm$ 2.074 χ^2 /NDF: 1810531.7/35

In: 6121.035 $\pm$ 0.940 χ^2 /NDF: 3379278.1/37

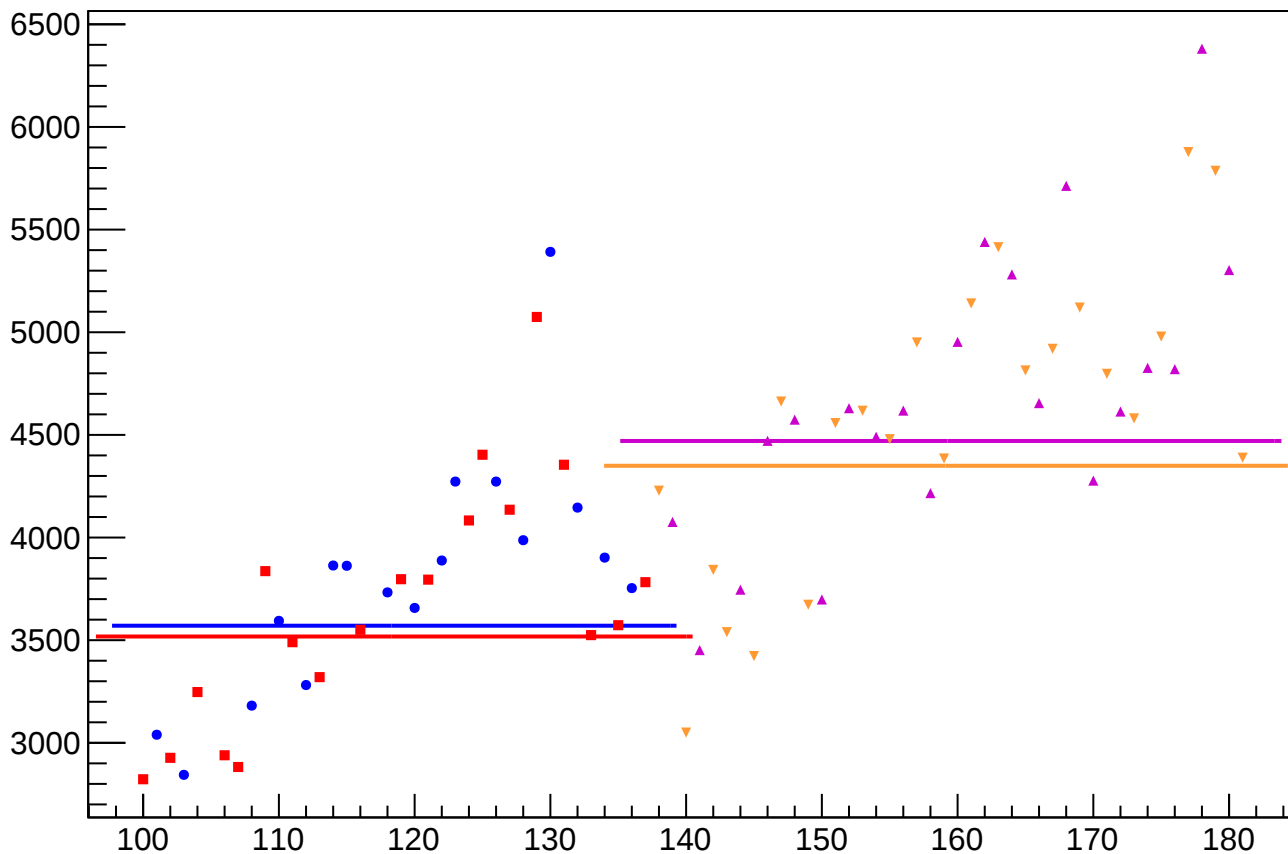
Out: 6111.465 $\pm$ 0.912 χ^2 /NDF: 3907141.1/41

All: 6116.107 $\pm$ 0.655 χ^2 /NDF: 7286472.6/79

diff_bpm16Y_mean vs Slug, Sign Corrected



diff_bpm16Y_rms vs Slug, Sign Corrected



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

Left Out: 4349.560 $\pm$ 0.751 χ^2 /NDF:980296.3/22

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

Left In: 4470.390 $\pm$ 0.793 χ^2 /NDF:681781.4/20

Left: 4406.685 $\pm$ 0.545 χ^2 /NDF: 1674314.3/43

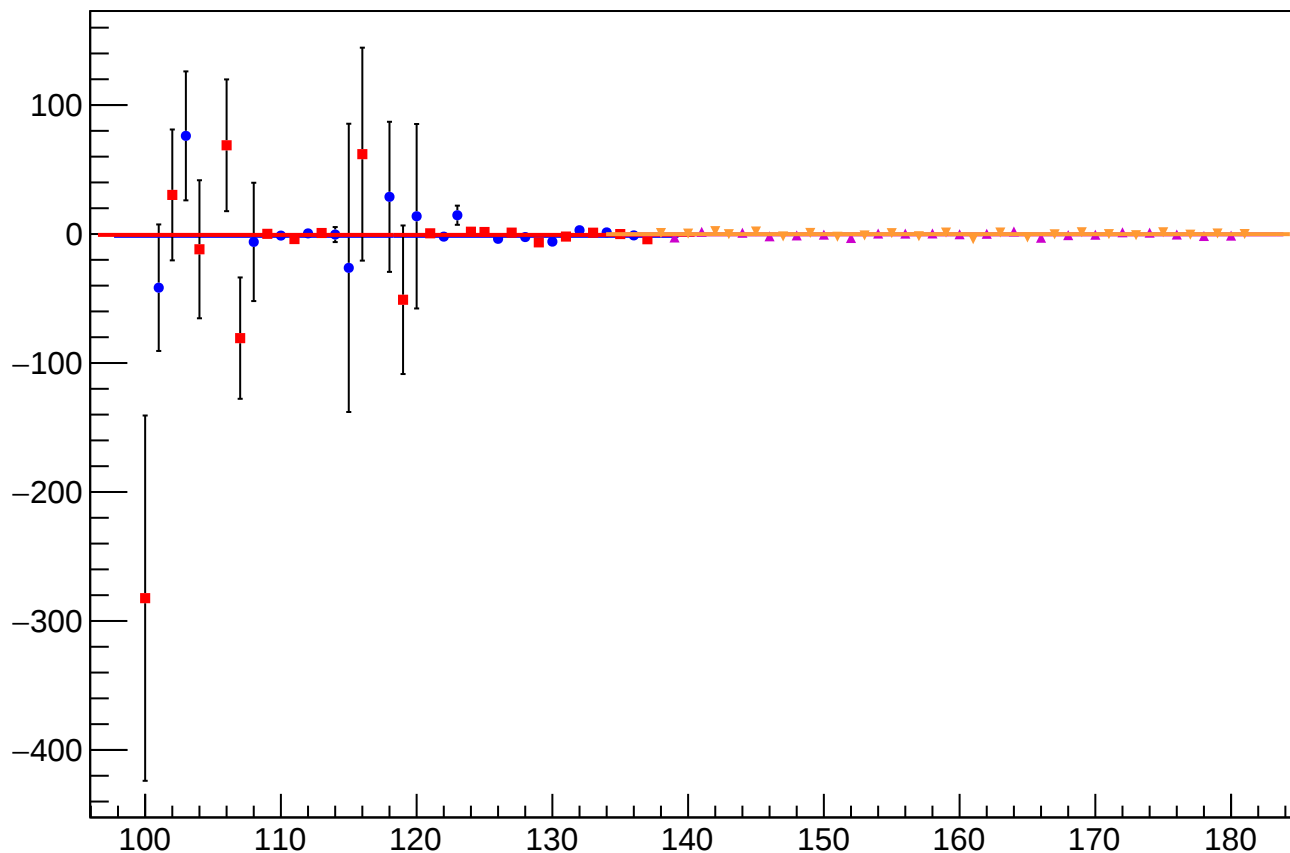
Right: 3543.048 $\pm$ 0.683 χ^2 /NDF: 608059.5/35

In: 4117.893 $\pm$ 0.619 χ^2 /NDF:1496422.3/37

Out: 4027.278 $\pm$ 0.588 χ^2 /NDF:1751599.4/41

All: 4070.274 $\pm$ 0.426 χ^2 /NDF: 3259299.0/79

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

Left Out: -0.101 ± 0.255 χ^2/NDF : 34.0/22

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

Left In: -0.259 ± 0.263 χ^2/NDF : 26.9/20

Left: -0.178 ± 0.183 χ^2/NDF : 61.0/43

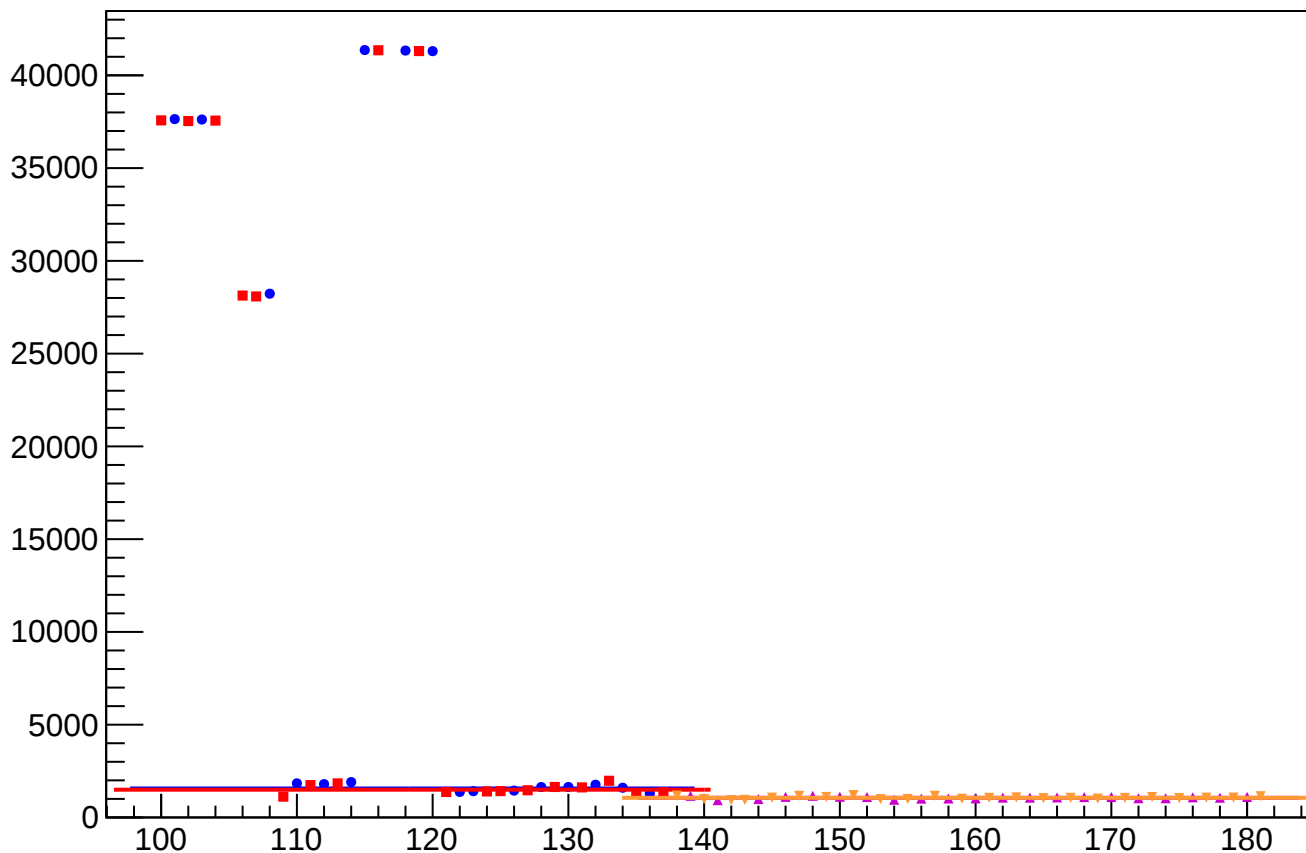
Right: -1.014 ± 0.517 χ^2/NDF : 38.7/35

In: -0.384 ± 0.248 χ^2/NDF : 45.7/37

Out: -0.165 ± 0.240 χ^2/NDF : 56.0/41

All: -0.271 ± 0.172 χ^2/NDF : 102.1/79

diff_bpm1p02bX_rms vs Slug, Sign Corrected



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

Left Out: 1058.549 $\pm$ 0.180 χ^2 /NDF: 144567.9/22

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

Left In: 1057.410 $\pm$ 0.186 χ^2 /NDF: 110776.5/20

Left: 1057.997 $\pm$ 0.129 χ^2 /NDF: 255363.8/43

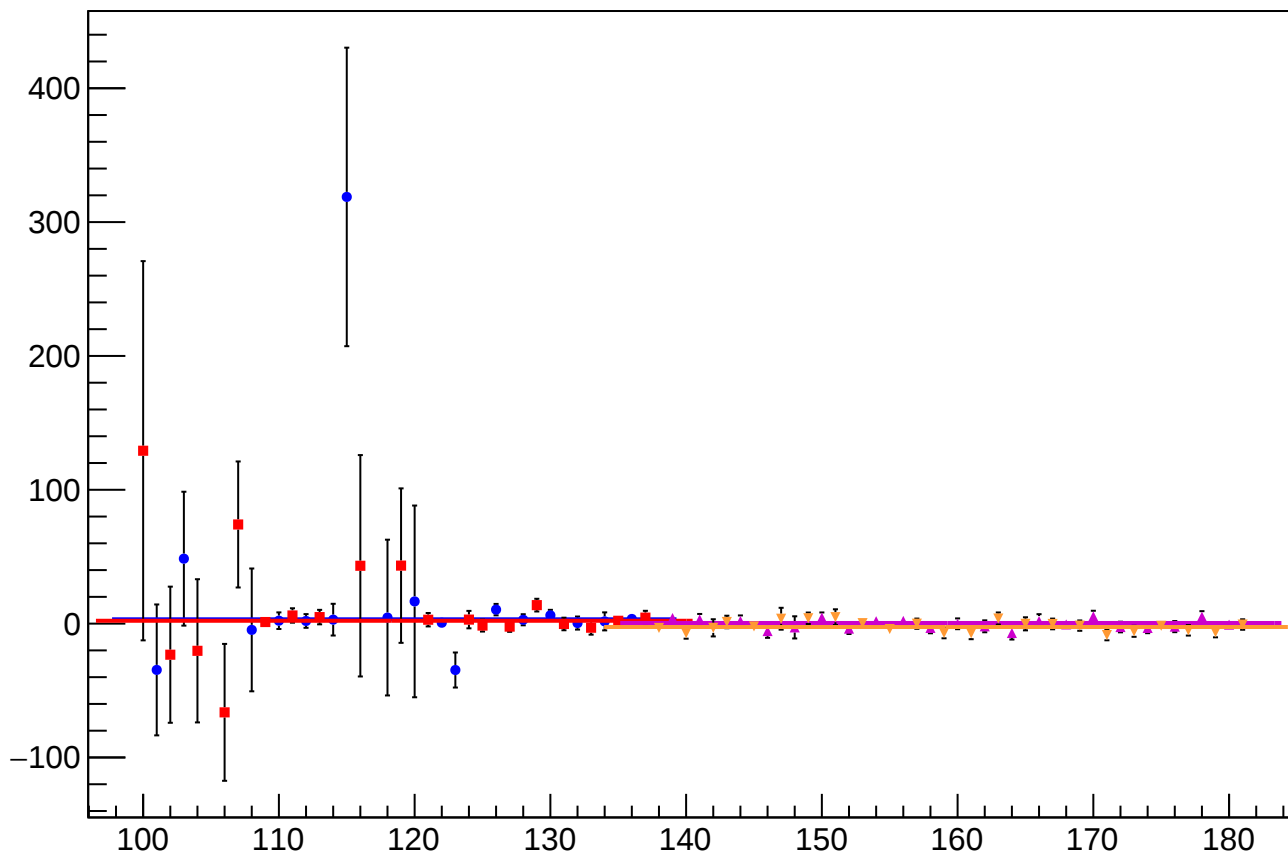
Right: 1526.792 $\pm$ 0.366 χ^2 /NDF: 9654372.3/35

In: 1112.293 $\pm$ 0.175 χ^2 /NDF: 5664525.8/37

Out: 1108.042 $\pm$ 0.170 χ^2 /NDF: 5706737.5/41

All: 1110.096 $\pm$ 0.122 χ^2 /NDF: 11371567.1/71

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

Left Out: -2.533 ± 0.830 $\chi^2/\text{NDF}: 17.4/22$

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

Left In: 0.479 ± 0.866 $\chi^2/\text{NDF}: 15.4/20$

Left: -1.091 ± 0.599 $\chi^2/\text{NDF}: 39.1/43$

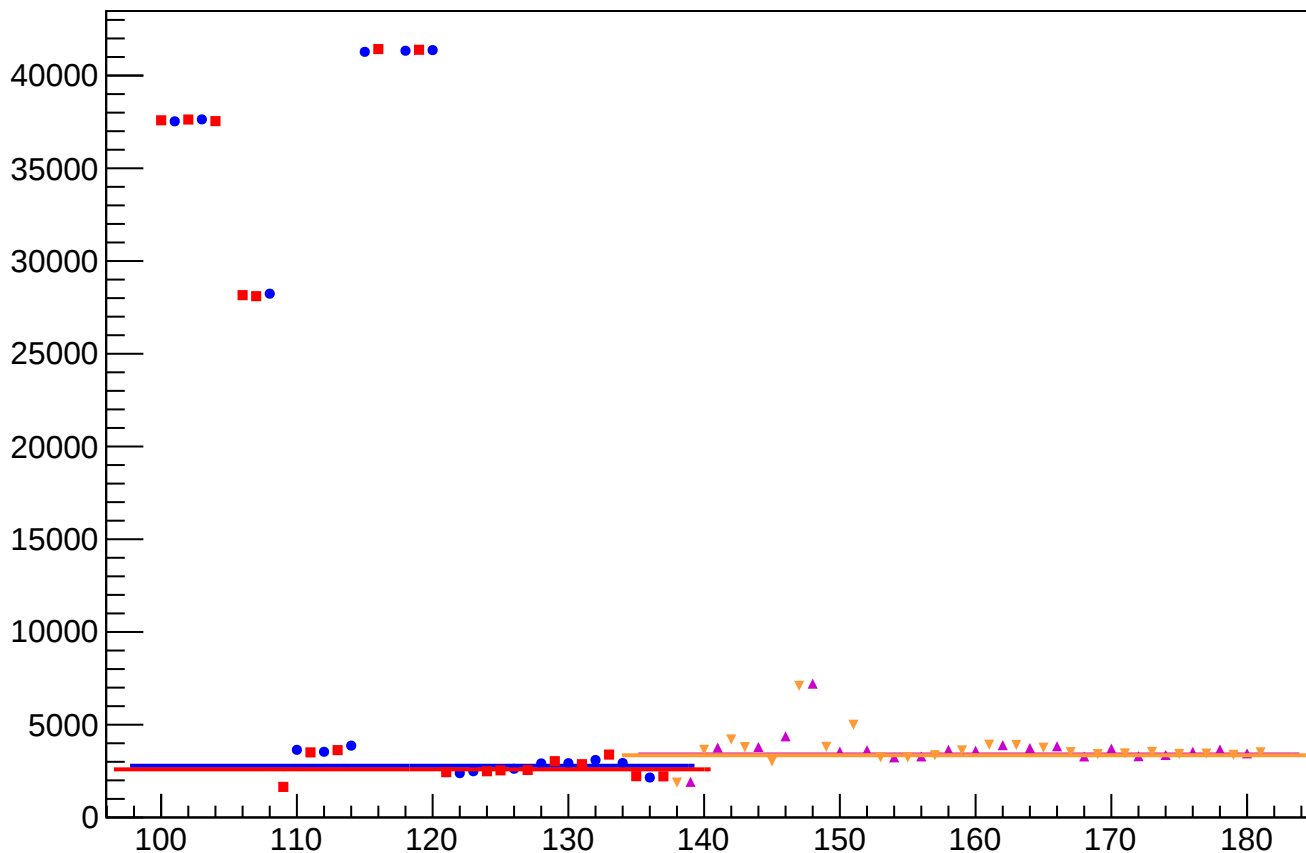
Right: 2.648 ± 0.906 $\chi^2/\text{NDF}: 39.1/35$

In: 1.301 ± 0.725 $\chi^2/\text{NDF}: 40.6/37$

Out: -1.086 ± 0.690 $\chi^2/\text{NDF}: 43.8/41$

All: 0.047 ± 0.500 $\chi^2/\text{NDF}: 90.1/79$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



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

Left Out: 3353.258+/-0.587 χ^2/NDF : 1631407.1/22

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

Left In: 3393.312+/-0.612 χ^2/NDF : 1416830.3/20

Left: 3372.440+/-0.424 χ^2/NDF : 3050467.7/43

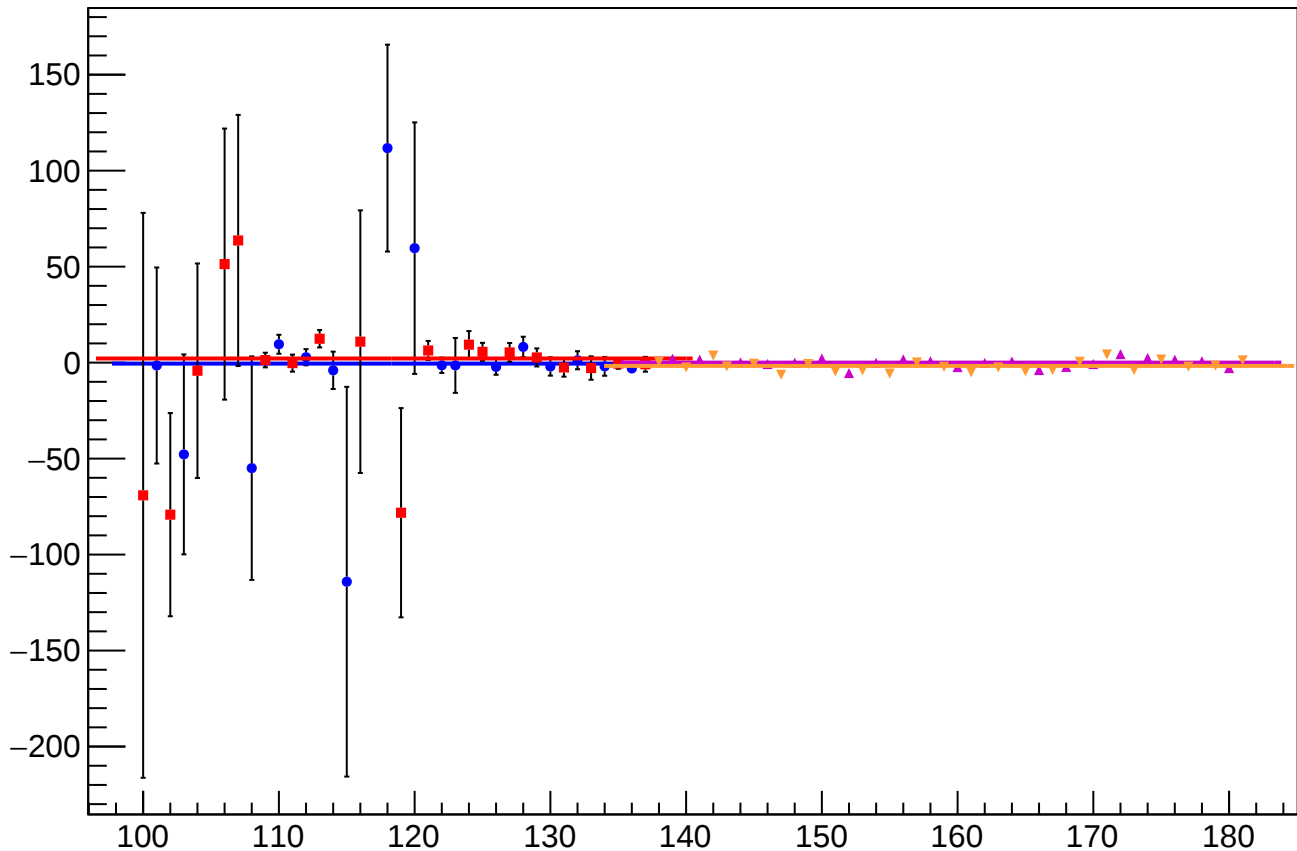
Right: 2683.369+/-0.641 χ^2/NDF : 9447510.4/35

In: 3212.145+/-0.513 χ^2/NDF : 6286978.8/37

Out: 3118.071+/-0.488 χ^2/NDF : 6998251.8/41

All: 3162.742+/-0.353 χ^2/NDF : 13302901.5/77

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.510 $\pm$ 1.222 χ^2/NDF : 18.0/16

Left Out: -1.714 $\pm$ 0.399 χ^2/NDF : 45.1/22

Right Out: 2.152 $\pm$ 1.250 χ^2/NDF : 17.6/18

Left In: -0.005 $\pm$ 0.413 χ^2/NDF : 27.6/20

Left: -0.889 $\pm$ 0.287 χ^2/NDF : 81.5/43

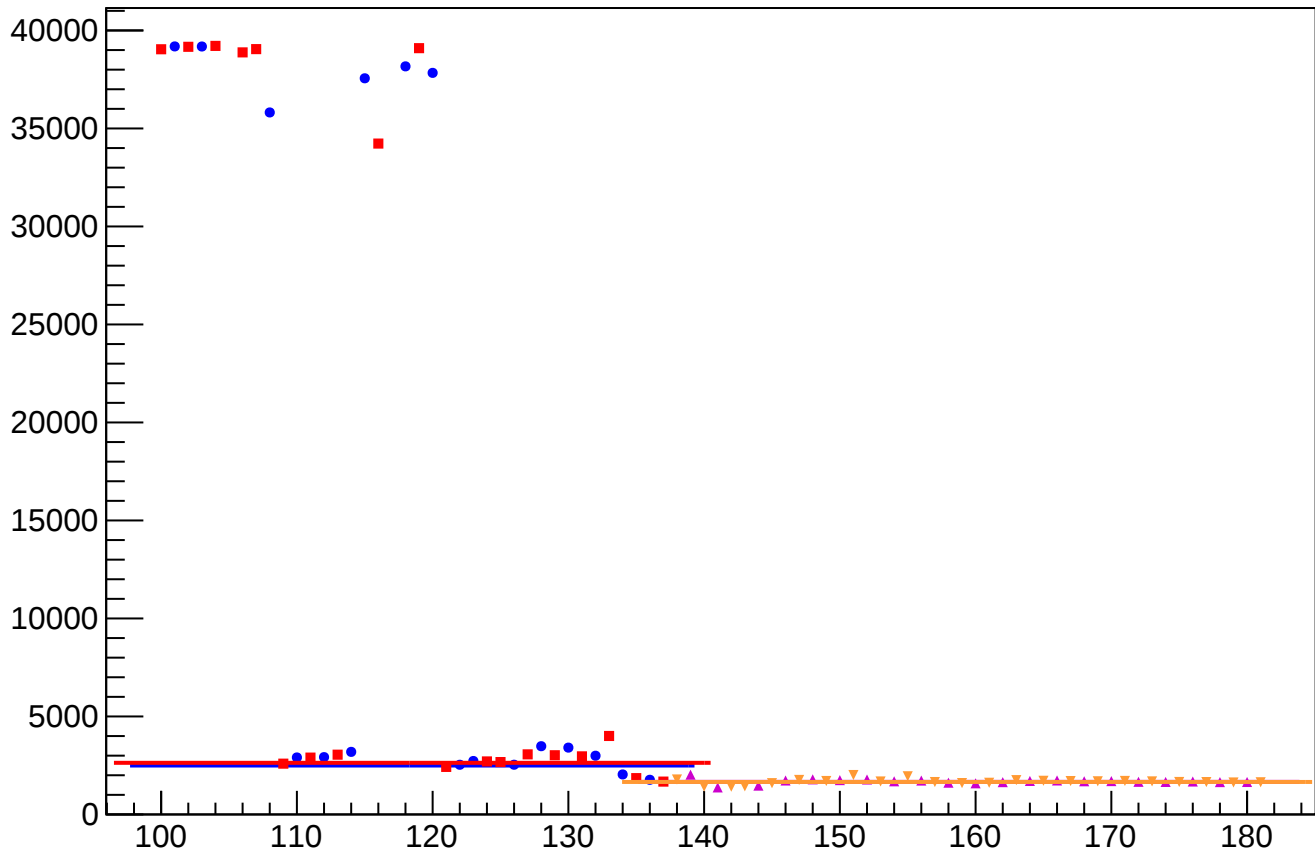
Right: 0.791 $\pm$ 0.874 χ^2/NDF : 37.9/35

In: -0.057 $\pm$ 0.392 χ^2/NDF : 45.7/37

Out: -1.356 $\pm$ 0.380 χ^2/NDF : 71.4/41

All: -0.725 $\pm$ 0.273 χ^2/NDF : 122.7/79

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2496.856 $\pm$ 0.864 χ^2 /NDF: 4887806.1/16

Left Out: 1658.166 $\pm$ 0.282 χ^2 /NDF: 215499.8/22

Right Out: 2634.601 $\pm$ 0.884 χ^2 /NDF: 4861733.2/18

Left In: 1662.473 $\pm$ 0.292 χ^2 /NDF: 178472.9/20

Left: 1660.245 $\pm$ 0.203 χ^2 /NDF: 394085.0/43

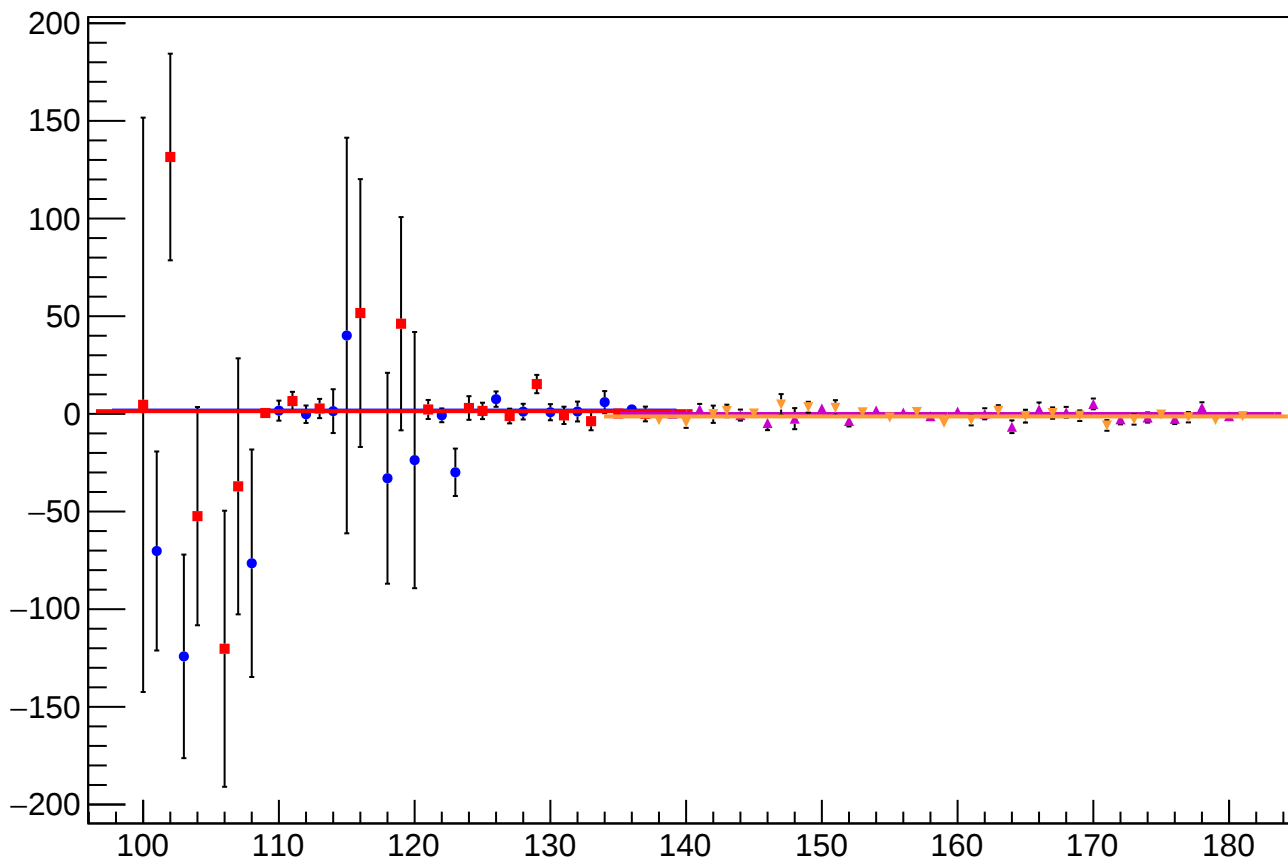
Right: 2564.162 $\pm$ 0.618 χ^2 /NDF: 9761958.6/35

In: 1748.181 $\pm$ 0.277 χ^2 /NDF: 5903088.9/37

Out: 1748.590 $\pm$ 0.269 χ^2 /NDF: 6184586.6/41

All: 1748.391 $\pm$ 0.193 χ^2 /NDF: 12087676.6/77

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

Left Out: -1.317 ± 0.549 $\chi^2/\text{NDF}: 19.1/22$

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

Left In: -0.080 ± 0.557 $\chi^2/\text{NDF}: 18.9/20$

Left: -0.707 ± 0.391 $\chi^2/\text{NDF}: 40.4/43$

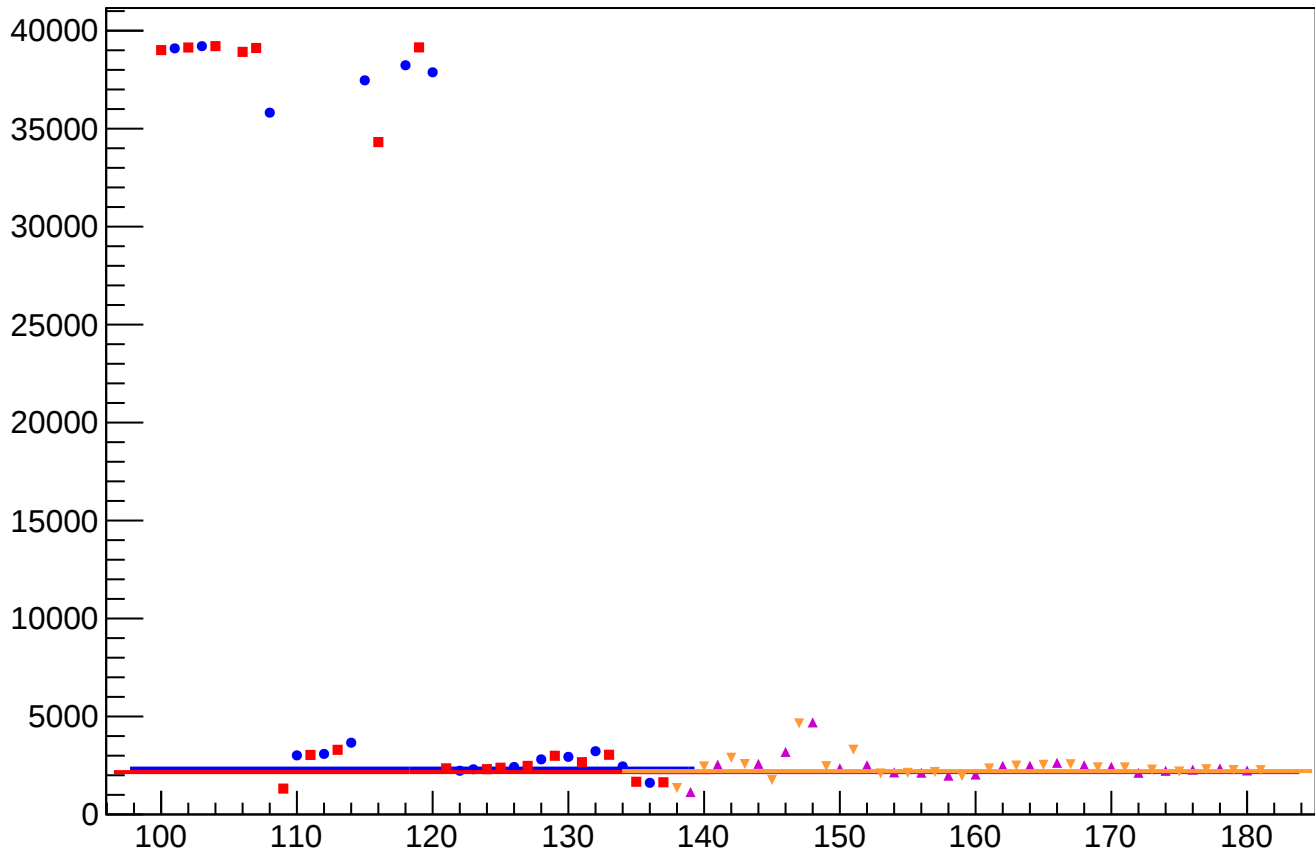
Right: 1.515 ± 0.780 $\chi^2/\text{NDF}: 44.9/35$

In: 0.255 ± 0.501 $\chi^2/\text{NDF}: 41.5/37$

Out: -0.751 ± 0.488 $\chi^2/\text{NDF}: 48.2/41$

All: -0.261 ± 0.350 $\chi^2/\text{NDF}: 91.8/79$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

Left Out: 2213.515+/-0.388 χ^2/NDF : 1409460.9/22

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

Left In: 2160.518+/-0.394 χ^2/NDF : 1965701.8/20

Left: 2187.399+/-0.277 χ^2/NDF : 3384342.9/43

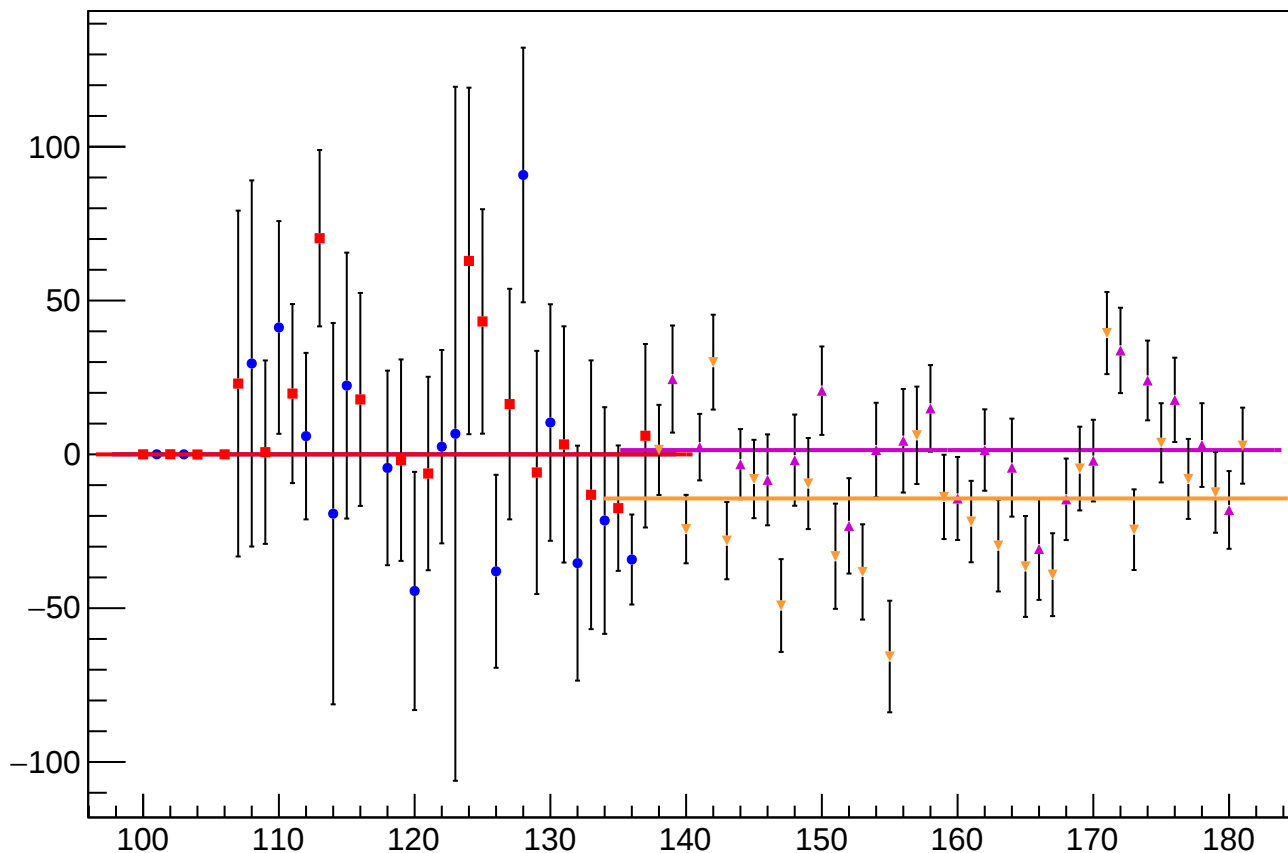
Right: 2244.647+/-0.552 χ^2/NDF : 10334729.3/35

In: 2195.049+/-0.354 χ^2/NDF : 7012394.4/37

Out: 2202.537+/-0.345 χ^2/NDF : 6715051.9/41

All: 2198.891+/-0.247 χ^2/NDF : 13727675.5/71

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 16.6/16

Left Out: -14.328 $\pm$ 2.900 χ^2 /NDF: 58.5/22

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 15.5/18

Left In: 1.396 $\pm$ 3.032 χ^2 /NDF: 26.8/20

Left: -6.816 $\pm$ 2.096 χ^2 /NDF: 99.3/43

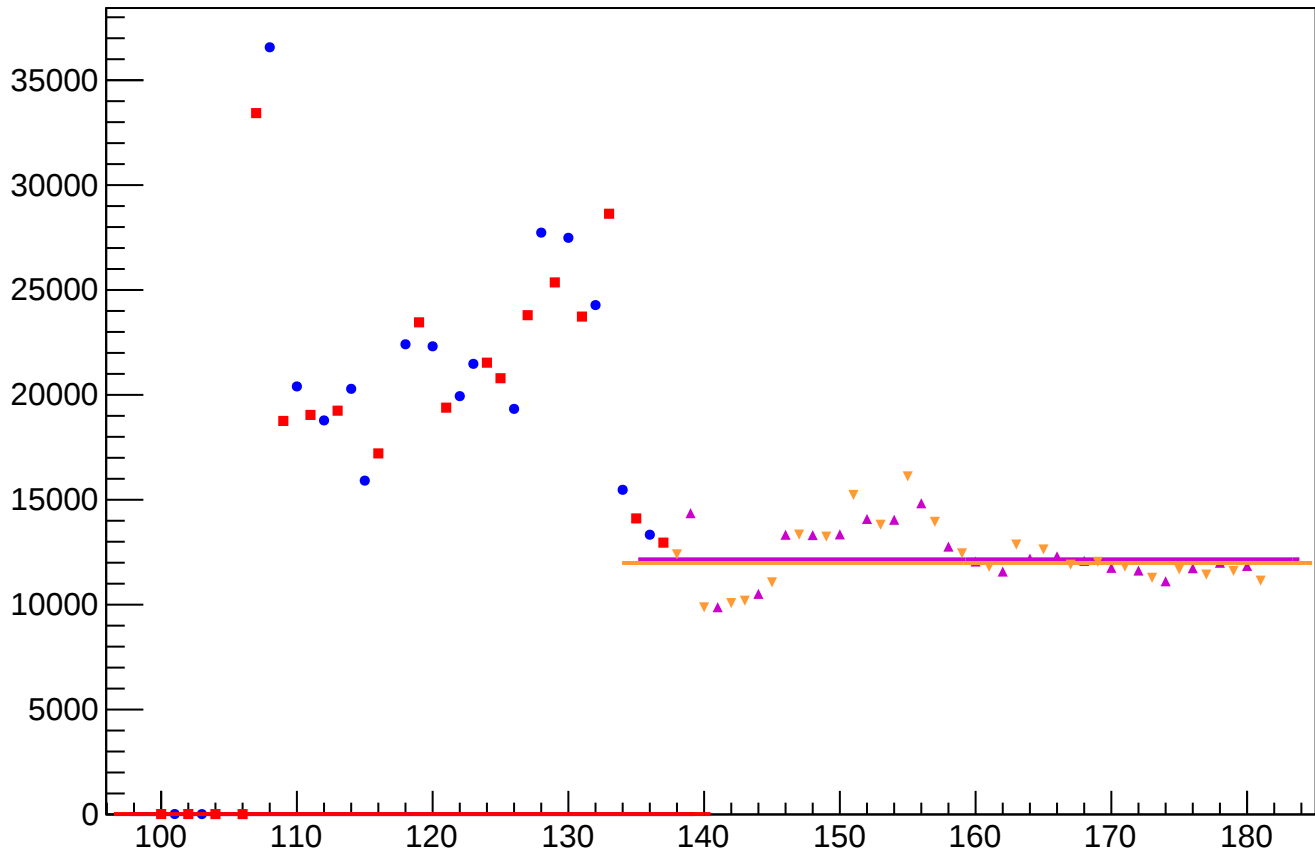
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 32.6/35

In: 0.013 $\pm$ 0.017 χ^2 /NDF: 43.6/37

Out: -0.004 $\pm$ 0.016 χ^2 /NDF: 98.4/41

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 142.5/79

diff_cav4bX_rms vs Slug, Sign Corrected



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

Left Out: 11987.301+/-2.050 χ^2/NDF : 455228.9/22

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

Left In: 12159.973+/-2.144 χ^2/NDF : 341782.1/20

Left: 12069.793+/-1.482 χ^2/NDF : 800399.3/43

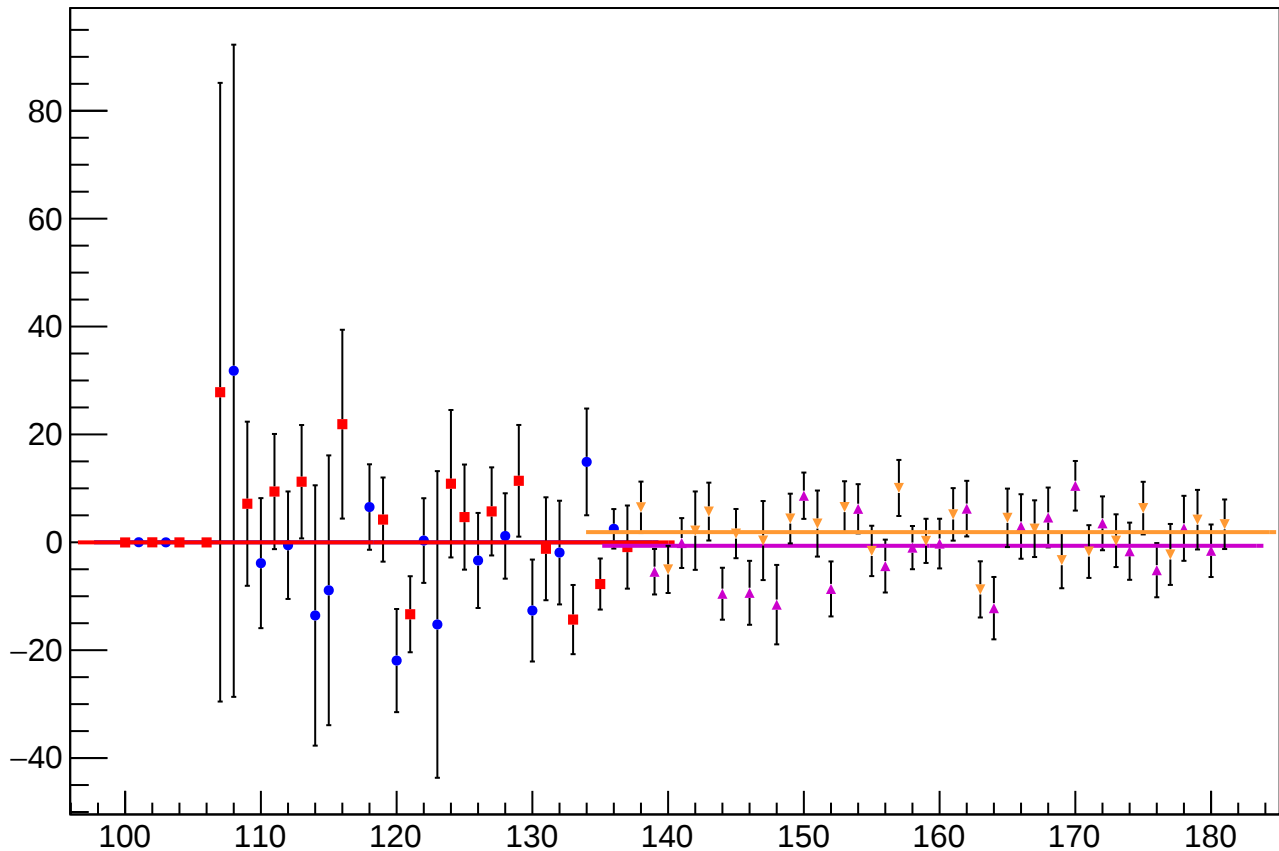
Right: 18.464+/-0.008 χ^2/NDF : 22005567.3/35

In: 19.038+/-0.012 χ^2/NDF : 43357732.8/37

Out: 18.679+/-0.011 χ^2/NDF : 45593973.2/41

All: 18.845+/-0.008 χ^2/NDF : 88952168.2/79

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 12.9/16$

Left Out: 1.887 ± 1.054 $\chi^2/\text{NDF}: 16.6/22$

Right Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 18.8/18$

Left In: -0.646 ± 1.088 $\chi^2/\text{NDF}: 33.8/20$

Left: 0.660 ± 0.757 $\chi^2/\text{NDF}: 53.3/43$

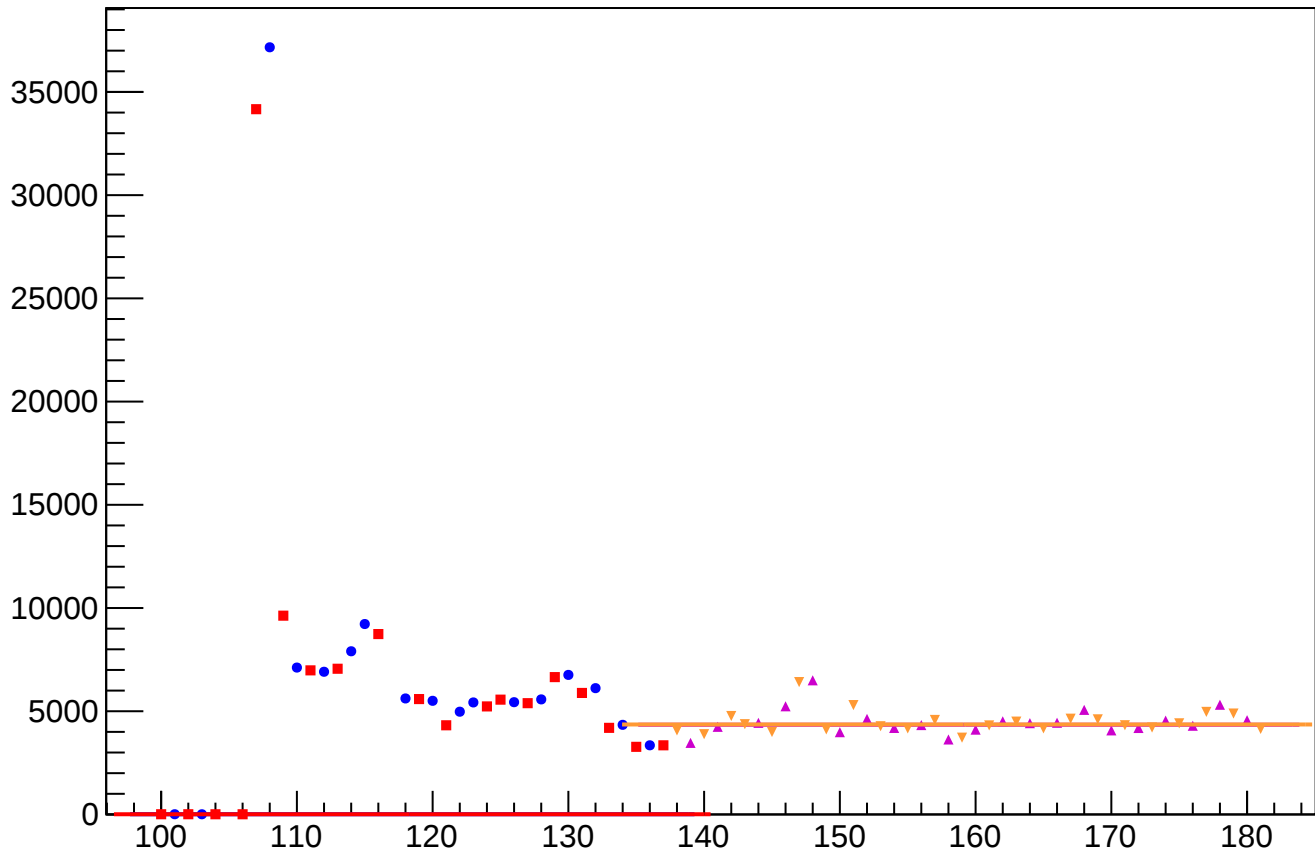
Right: -0.007 ± 0.006 $\chi^2/\text{NDF}: 33.0/35$

In: 0.001 ± 0.009 $\chi^2/\text{NDF}: 47.1/37$

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 38.7/41$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 87.1/79$

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 11067258.7/16

Left Out: 4358.642 $\pm$ 0.745 χ^2 /NDF: 378049.1/22

Right Out: 9.854 $\pm$ 0.006 χ^2 /NDF: 11113759.9/18

Left In: 4345.009 $\pm$ 0.769 χ^2 /NDF: 500558.0/20

Left: 4352.040 $\pm$ 0.535 χ^2 /NDF: 878769.2/43

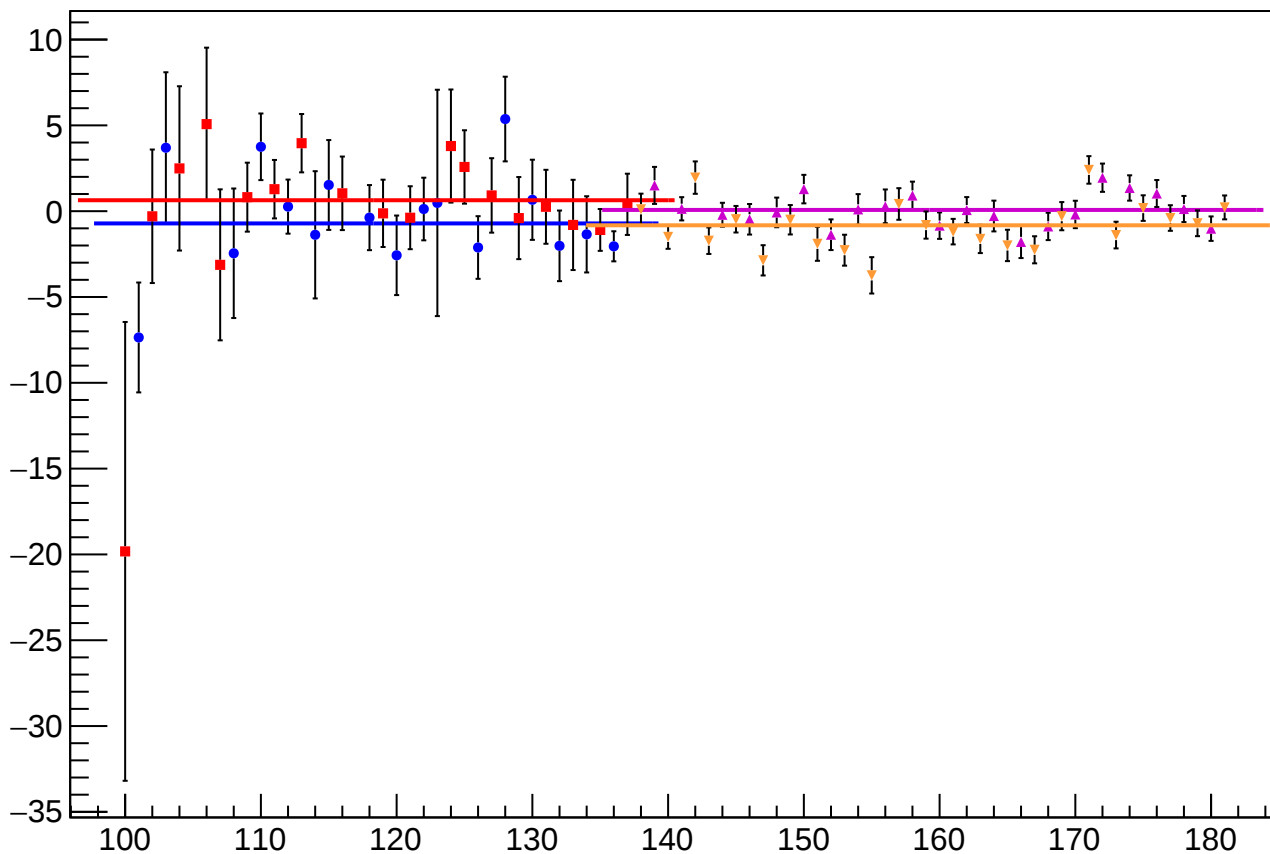
Right: 9.894 $\pm$ 0.004 χ^2 /NDF: 22181108.5/35

In: 10.249 $\pm$ 0.007 χ^2 /NDF: 43335946.8/37

Out: 10.147 $\pm$ 0.006 χ^2 /NDF: 45532144.5/41

All: 10.195 $\pm$ 0.004 χ^2 /NDF: 88868221.9/79

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.713 ± 0.483 χ^2/NDF : 22.7/16

Left Out: -0.822 ± 0.170 χ^2/NDF : 58.5/22

Right Out: 0.638 ± 0.501 χ^2/NDF : 13.1/18

Left In: 0.073 ± 0.177 χ^2/NDF : 27.3/20

Left: -0.393 ± 0.123 χ^2/NDF : 99.1/43

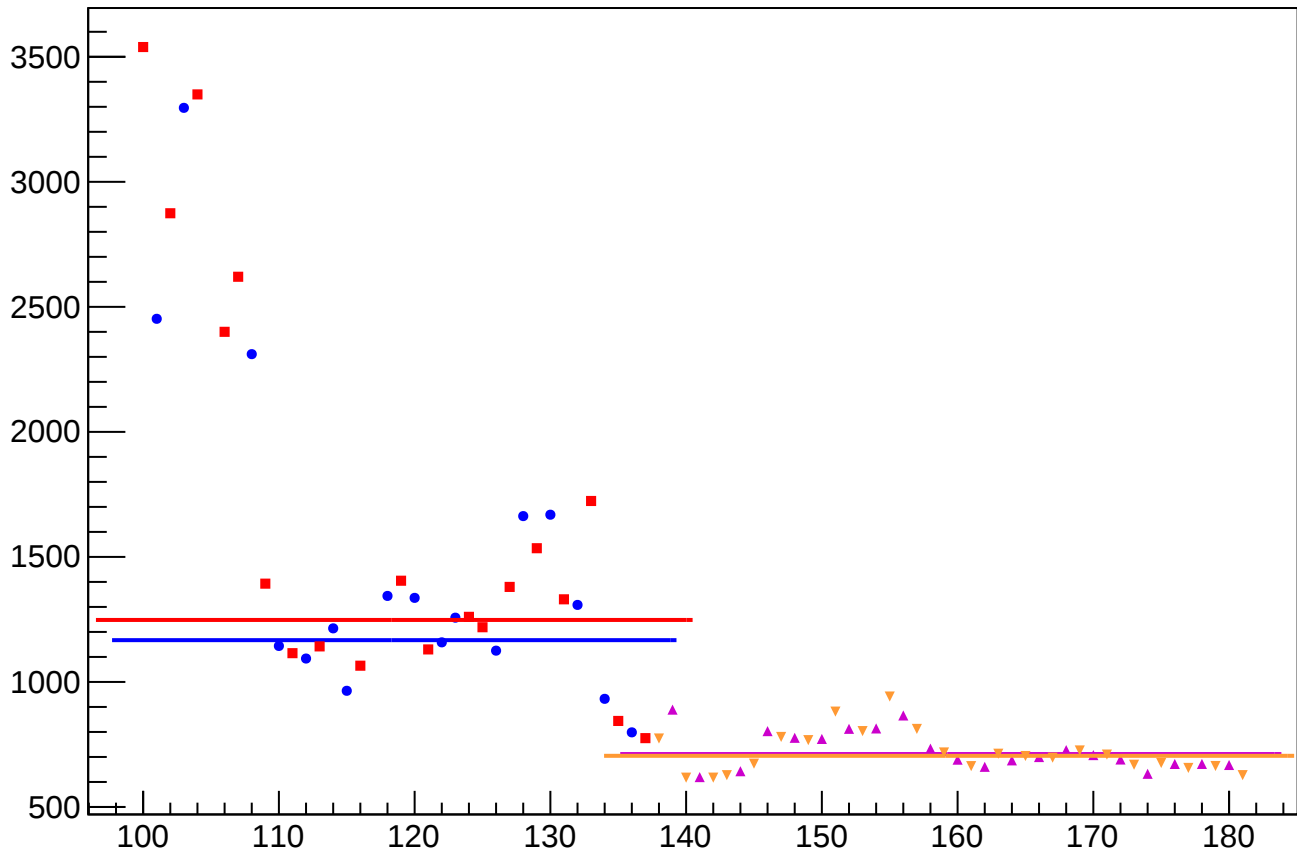
Right: -0.063 ± 0.348 χ^2/NDF : 39.5/35

In: -0.020 ± 0.166 χ^2/NDF : 52.3/37

Out: -0.672 ± 0.161 χ^2/NDF : 79.2/41

All: -0.357 ± 0.116 χ^2/NDF : 139.4/79

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.121 ± 0.342 $\chi^2/\text{NDF}: 1580218.1/16$

Left Out: 704.598 ± 0.120 $\chi^2/\text{NDF}: 378948.9/22$

Right Out: 1247.915 ± 0.355 $\chi^2/\text{NDF}: 1653323.6/18$

Left In: 711.662 ± 0.125 $\chi^2/\text{NDF}: 312498.2/20$

Left: 707.985 ± 0.087 $\chi^2/\text{NDF}: 693099.5/43$

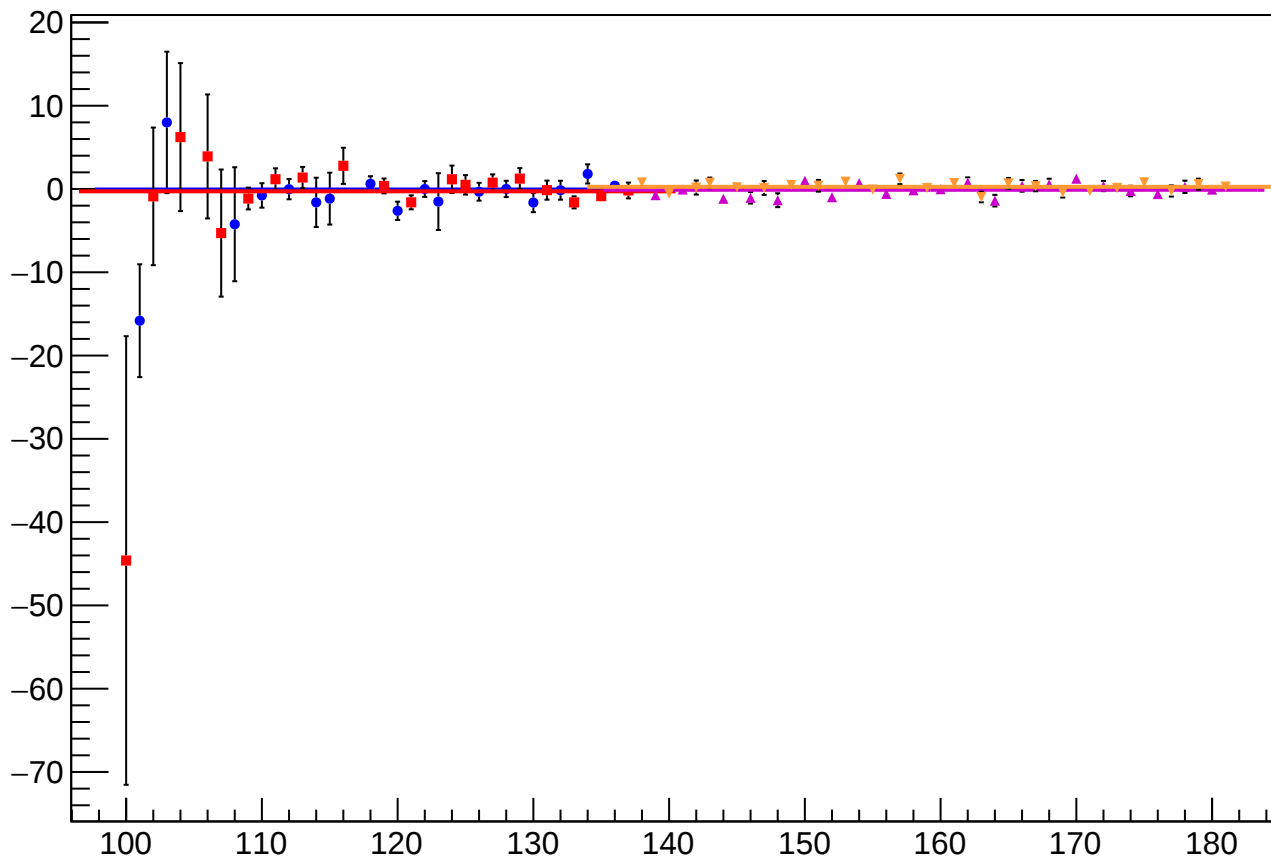
Right: 1206.012 ± 0.246 $\chi^2/\text{NDF}: 3260466.3/35$

In: 765.728 ± 0.118 $\chi^2/\text{NDF}: 3459230.1/37$

Out: 760.713 ± 0.114 $\chi^2/\text{NDF}: 4137443.4/41$

All: 763.140 ± 0.082 $\chi^2/\text{NDF}: 7597610.2/79$

diff_cav4cY_mean vs Slug, Sign Corrected



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

Left Out: 0.262 ± 0.126 χ^2/NDF : 16.2/22

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

Left In: -0.094 ± 0.131 χ^2/NDF : 33.2/20

Left: 0.090 ± 0.091 χ^2/NDF : 53.3/43

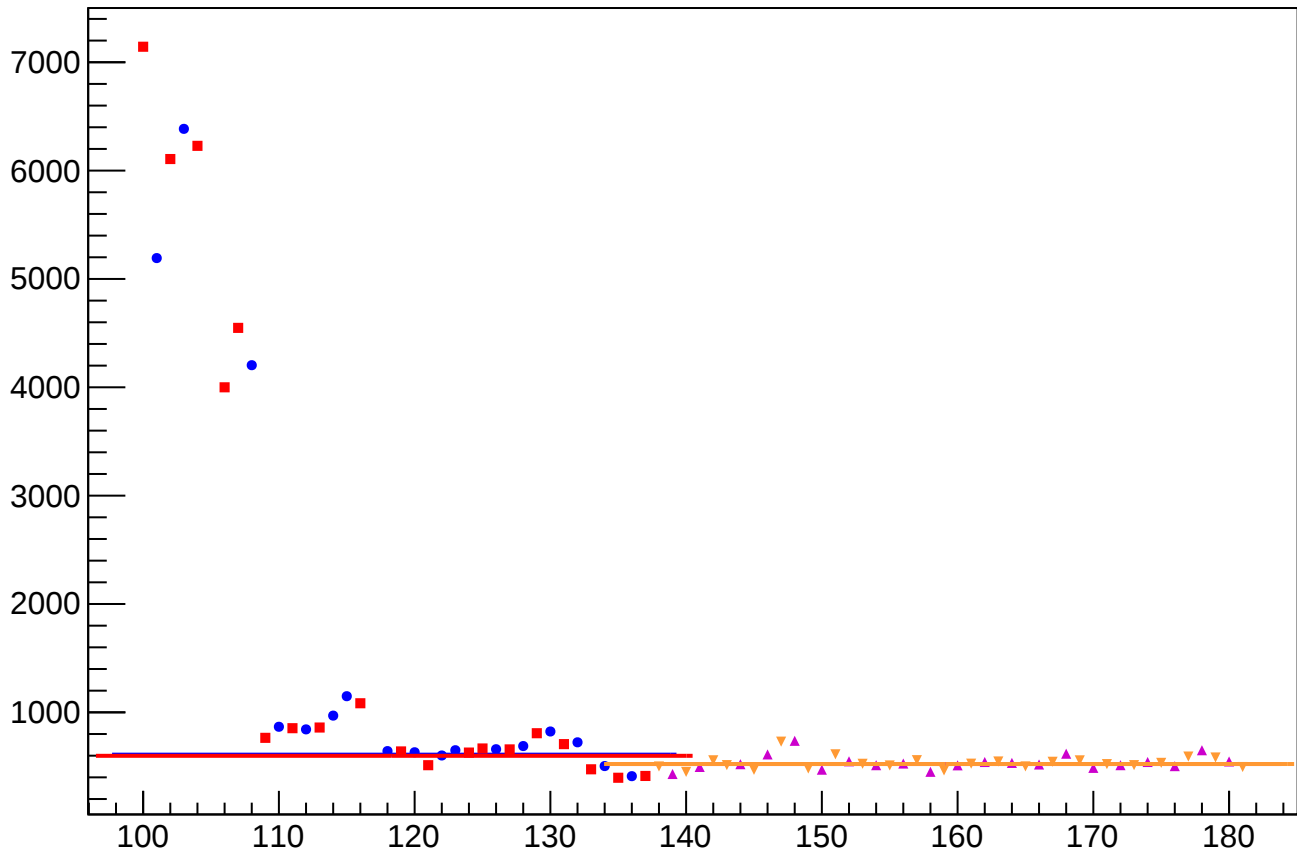
Right: -0.172 ± 0.189 χ^2/NDF : 40.0/35

In: -0.087 ± 0.118 χ^2/NDF : 52.4/37

Out: 0.161 ± 0.114 χ^2/NDF : 40.2/41

All: 0.041 ± 0.082 χ^2/NDF : 94.8/79

diff_cav4cY_rms vs Slug, Sign Corrected



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

Left Out: 523.082+/-0.089 χ^2/NDF : 326435.3/22

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

Left In: 523.010+/-0.092 χ^2/NDF : 417252.3/20

Left: 523.047+/-0.064 χ^2/NDF : 743687.9/43

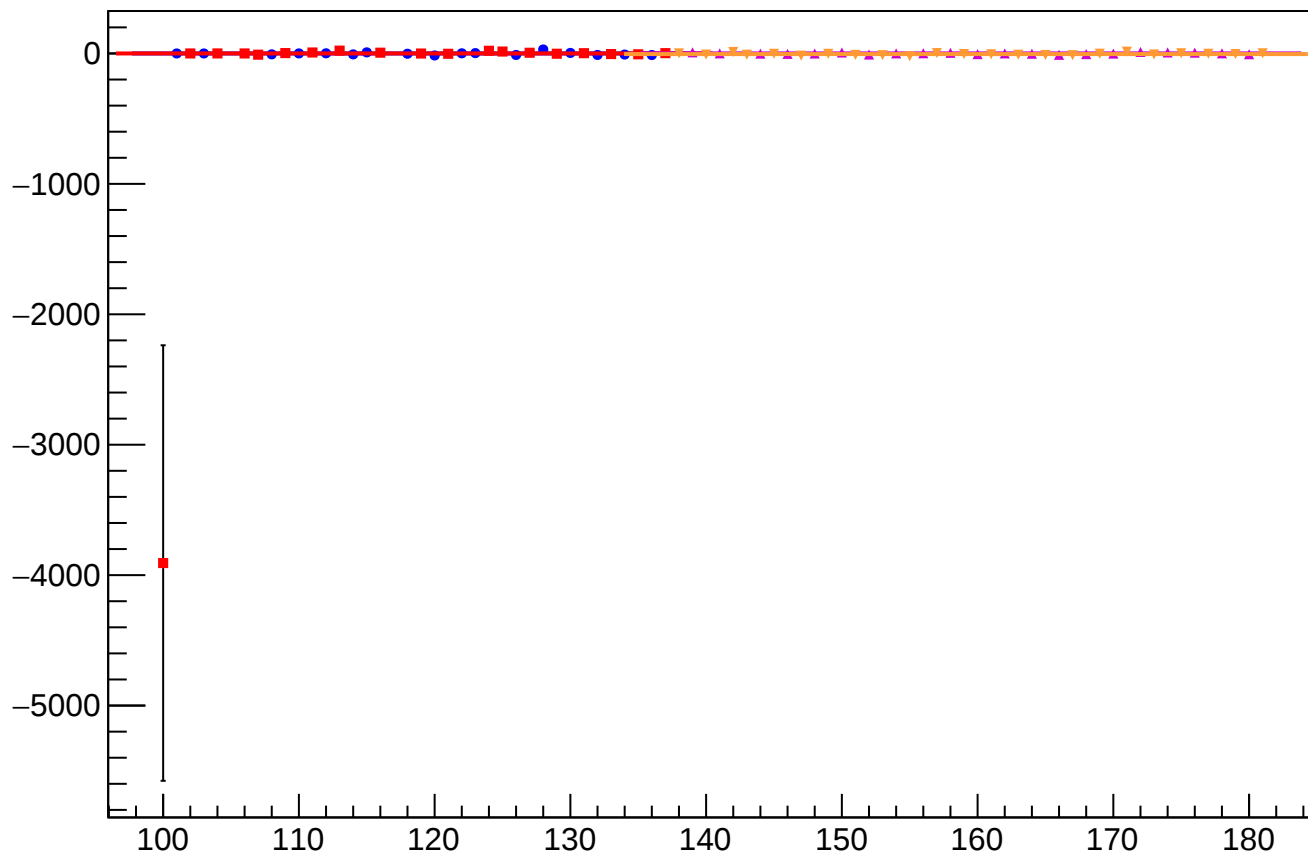
Right: 604.012+/-0.133 χ^2/NDF : 6688123.9/35

In: 539.511+/-0.083 χ^2/NDF : 3718386.6/37

Out: 537.164+/-0.081 χ^2/NDF : 4012248.6/41

All: 538.302+/-0.058 χ^2/NDF : 7731045.8/79

diff_cav4dX_mean vs Slug, Sign Corrected



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

Left Out: -4.768 ± 0.991 χ^2/NDF : 58.3/22

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

Left In: 0.495 ± 1.033 χ^2/NDF : 27.3/20

Left: -2.247 ± 0.715 χ^2/NDF : 99.1/43

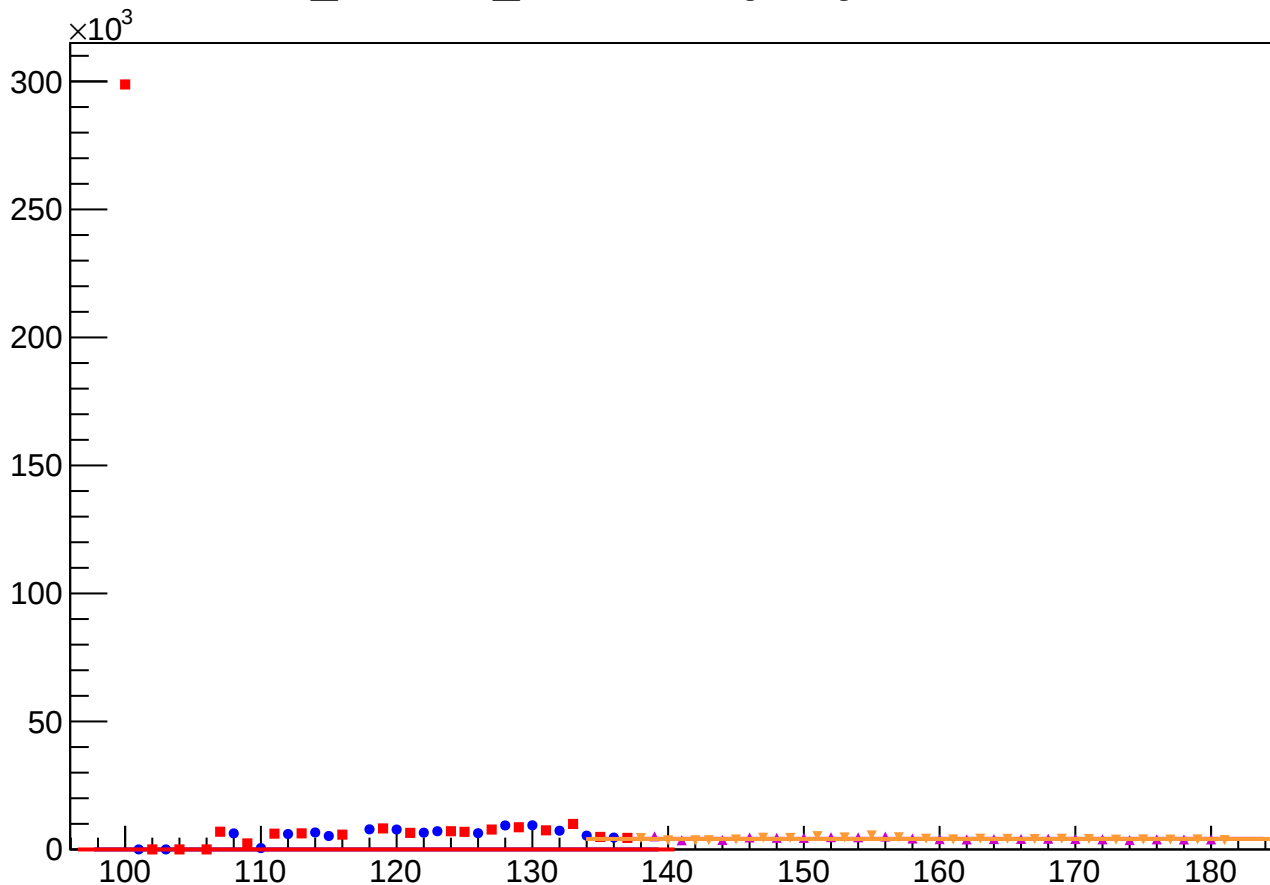
Right: 0.004 ± 0.014 χ^2/NDF : 36.3/35

In: -0.021 ± 0.021 χ^2/NDF : 43.6/37

Out: 0.025 ± 0.020 χ^2/NDF : 99.1/41

All: 0.003 ± 0.014 χ^2/NDF : 145.3/79

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.339 ± 0.015 $\chi^2/\text{NDF}: 10457335.9/16$

Left Out: 4100.551 ± 0.701 $\chi^2/\text{NDF}: 397874.0/22$

Right Out: 17.267 ± 0.014 $\chi^2/\text{NDF}: 10773848.1/18$

Left In: 4147.427 ± 0.731 $\chi^2/\text{NDF}: 321036.5/20$

Left: 4123.001 ± 0.506 $\chi^2/\text{NDF}: 721054.6/43$

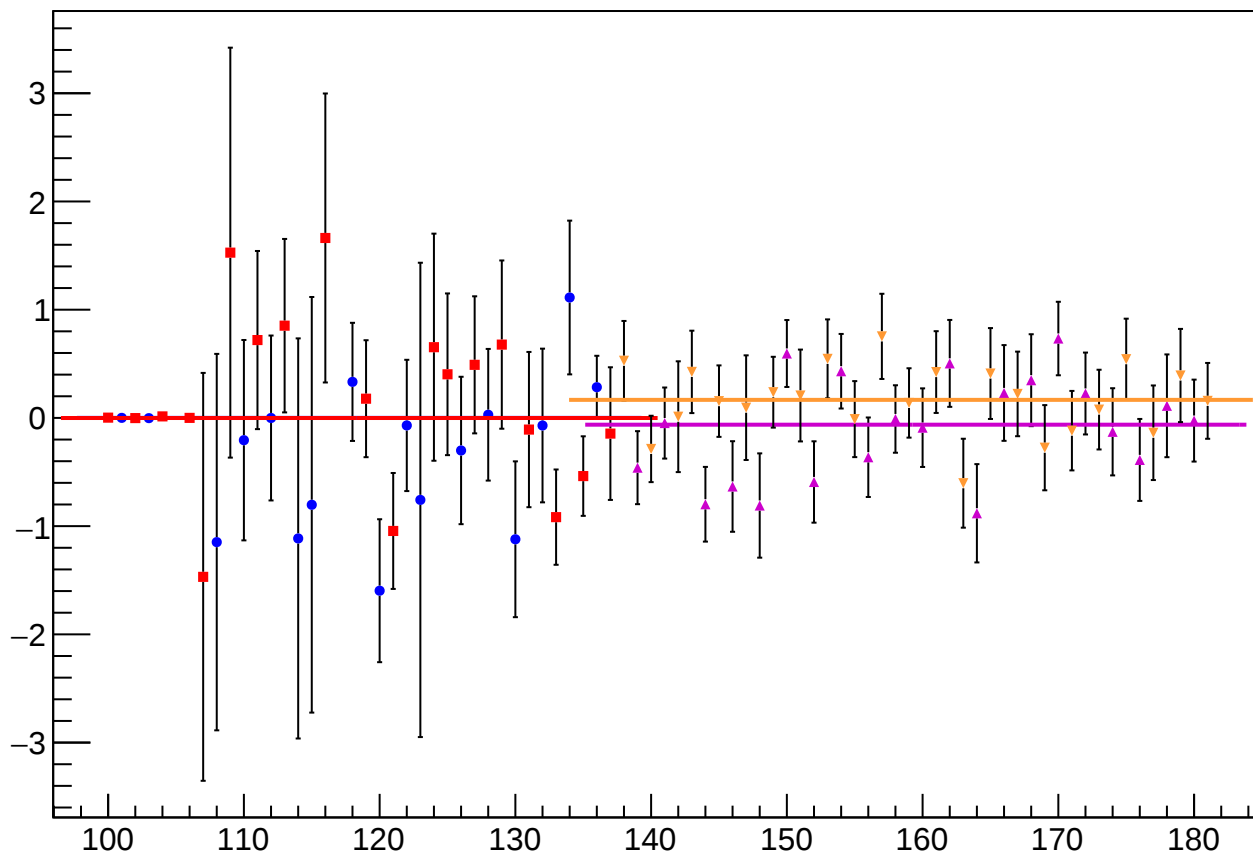
Right: 17.302 ± 0.010 $\chi^2/\text{NDF}: 21231196.4/35$

In: 19.011 ± 0.015 $\chi^2/\text{NDF}: 42706916.6/37$

Out: 18.894 ± 0.014 $\chi^2/\text{NDF}: 45128571.2/41$

All: 18.949 ± 0.010 $\chi^2/\text{NDF}: 87835521.0/79$

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 13.6/16$

Left Out: 0.167 ± 0.079 $\chi^2/\text{NDF}: 15.4/22$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 18.2/18$

Left In: -0.063 ± 0.082 $\chi^2/\text{NDF}: 33.1/20$

Left: 0.056 ± 0.057 $\chi^2/\text{NDF}: 52.5/43$

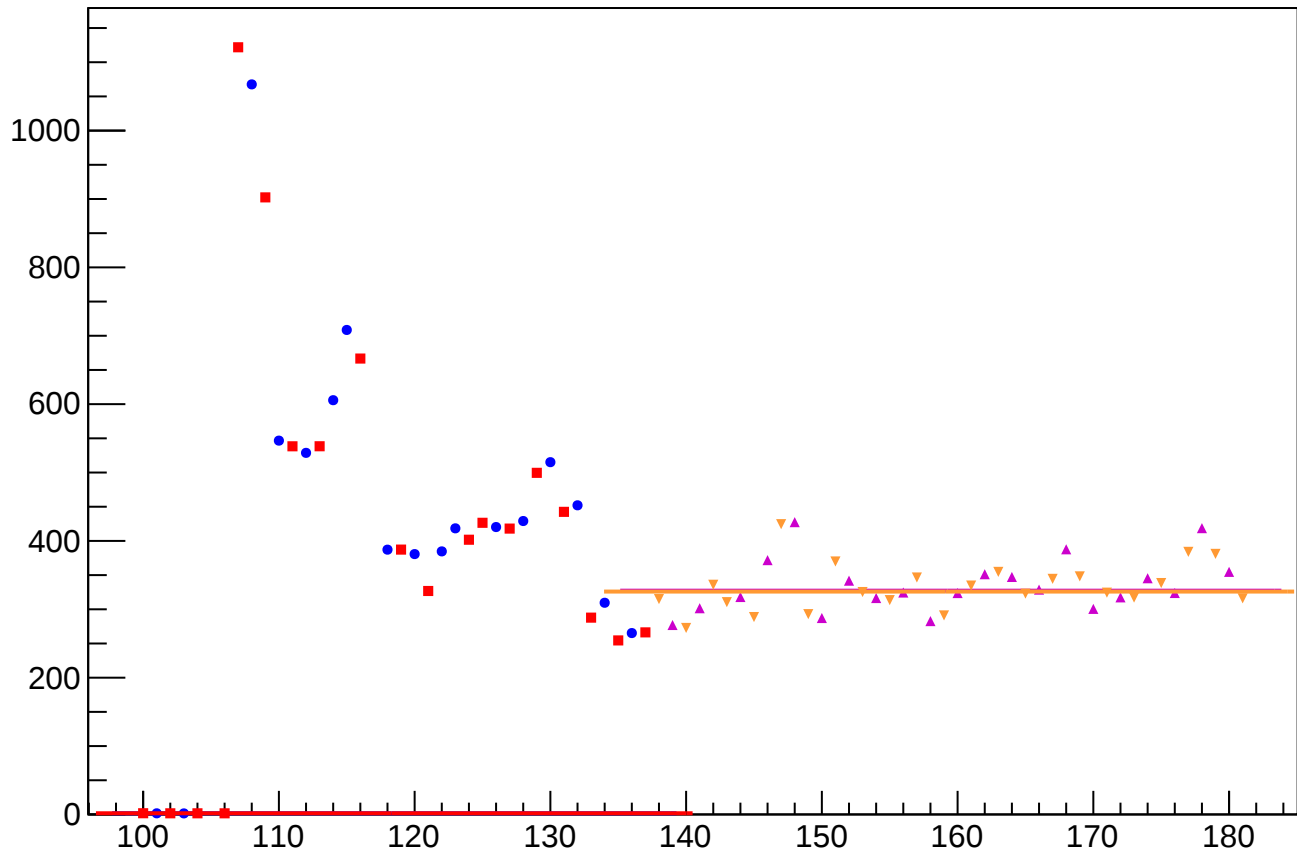
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 31.9/35$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 47.3/37$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 38.1/41$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 85.4/79$

diff_cav4dY_rms vs Slug, Sign Corrected



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

Left Out: 325.934 ± 0.056 χ^2/NDF : 343084.6/22

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

Left In: 327.223 ± 0.058 χ^2/NDF : 400943.0/20

Left: 326.555 ± 0.040 χ^2/NDF : 744285.4/43

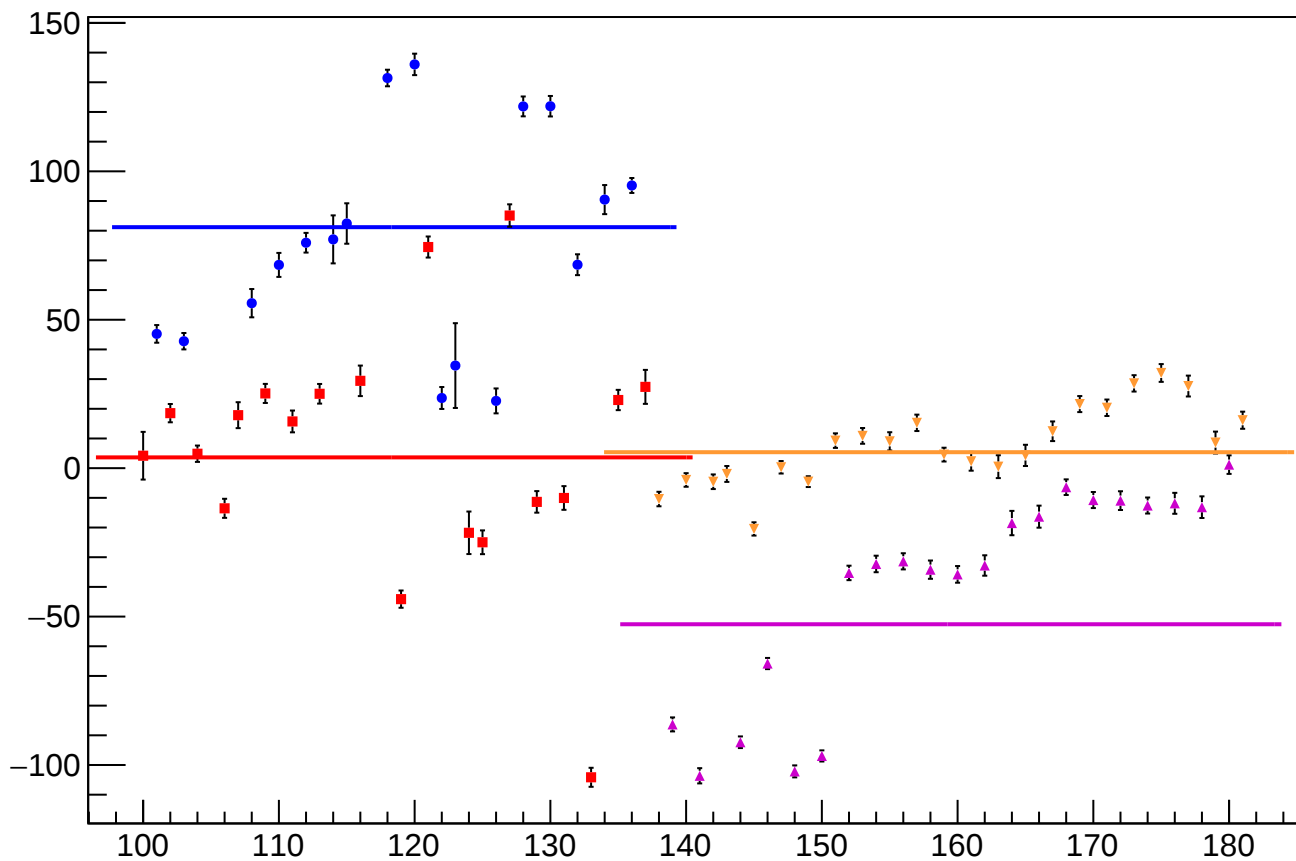
Right: 1.714 ± 0.001 χ^2/NDF : 21704428.1/35

In: 1.899 ± 0.001 χ^2/NDF : 43100158.7/37

Out: 1.925 ± 0.001 χ^2/NDF : 44909613.9/41

All: 1.912 ± 0.001 χ^2/NDF : 88009943.6/79

diff_bpm0i01X_mean vs Slug, Sign Corrected



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

Left Out: 5.380 ± 0.555 $\chi^2/\text{NDF}: 550.0/22$

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

Left In: -52.586 ± 0.572 $\chi^2/\text{NDF}: 4141.2/20$

Left: -22.763 ± 0.398 $\chi^2/\text{NDF}: 9979.8/43$

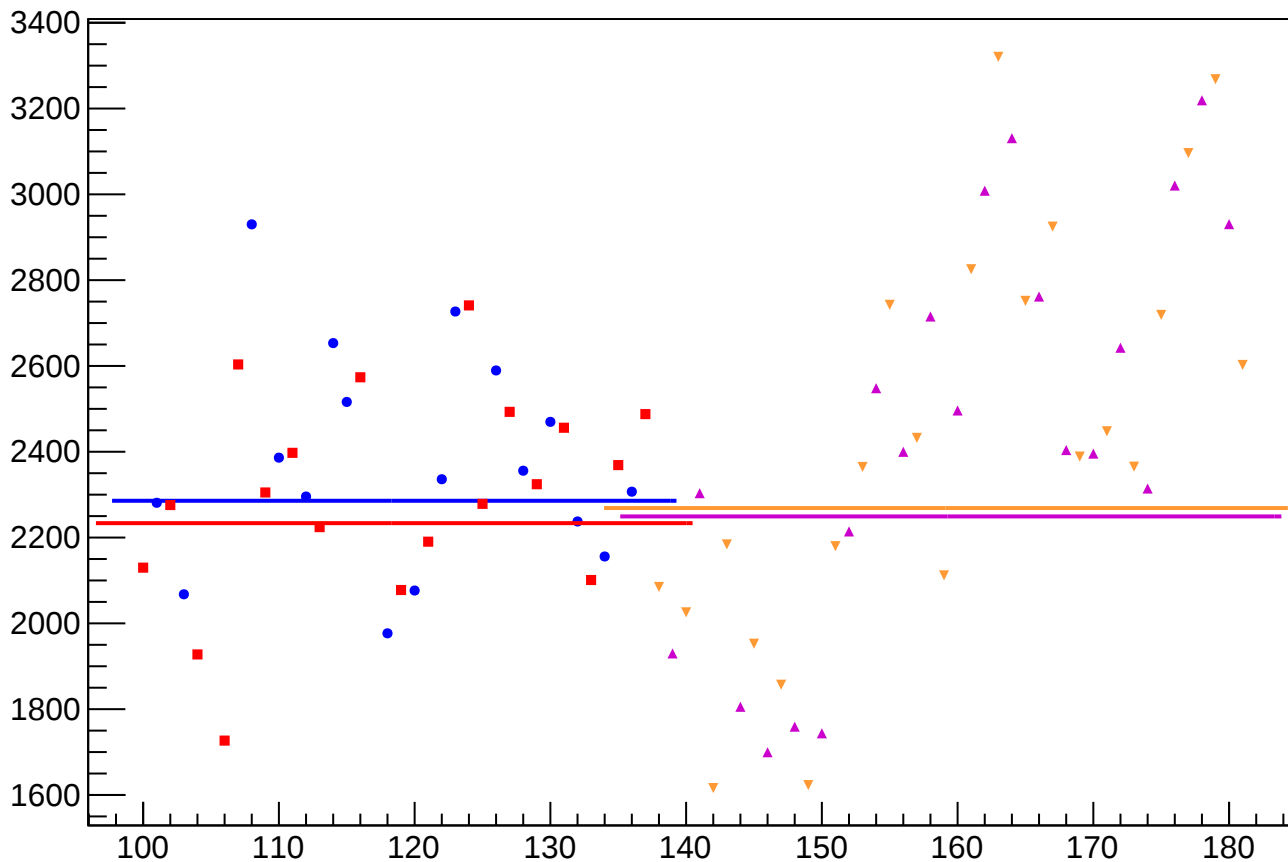
Right: 40.474 ± 0.611 $\chi^2/\text{NDF}: 8322.9/35$

In: -13.333 ± 0.481 $\chi^2/\text{NDF}: 21923.7/37$

Out: 4.852 ± 0.464 $\chi^2/\text{NDF}: 3146.1/41$

All: -3.921 ± 0.334 $\chi^2/\text{NDF}: 25810.9/79$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2285.757 $\pm$ 0.627 χ^2 /NDF: 109159.1/16

Left Out: 2268.795 $\pm$ 0.393 χ^2 /NDF:1283693.5/22

Right Out: 2233.605 $\pm$ 0.597 χ^2 /NDF: 147058.0/18

Left In: 2249.260 $\pm$ 0.404 χ^2 /NDF:1269008.2/20

Left: 2259.311 $\pm$ 0.282 χ^2 /NDF: 2553903.0/43

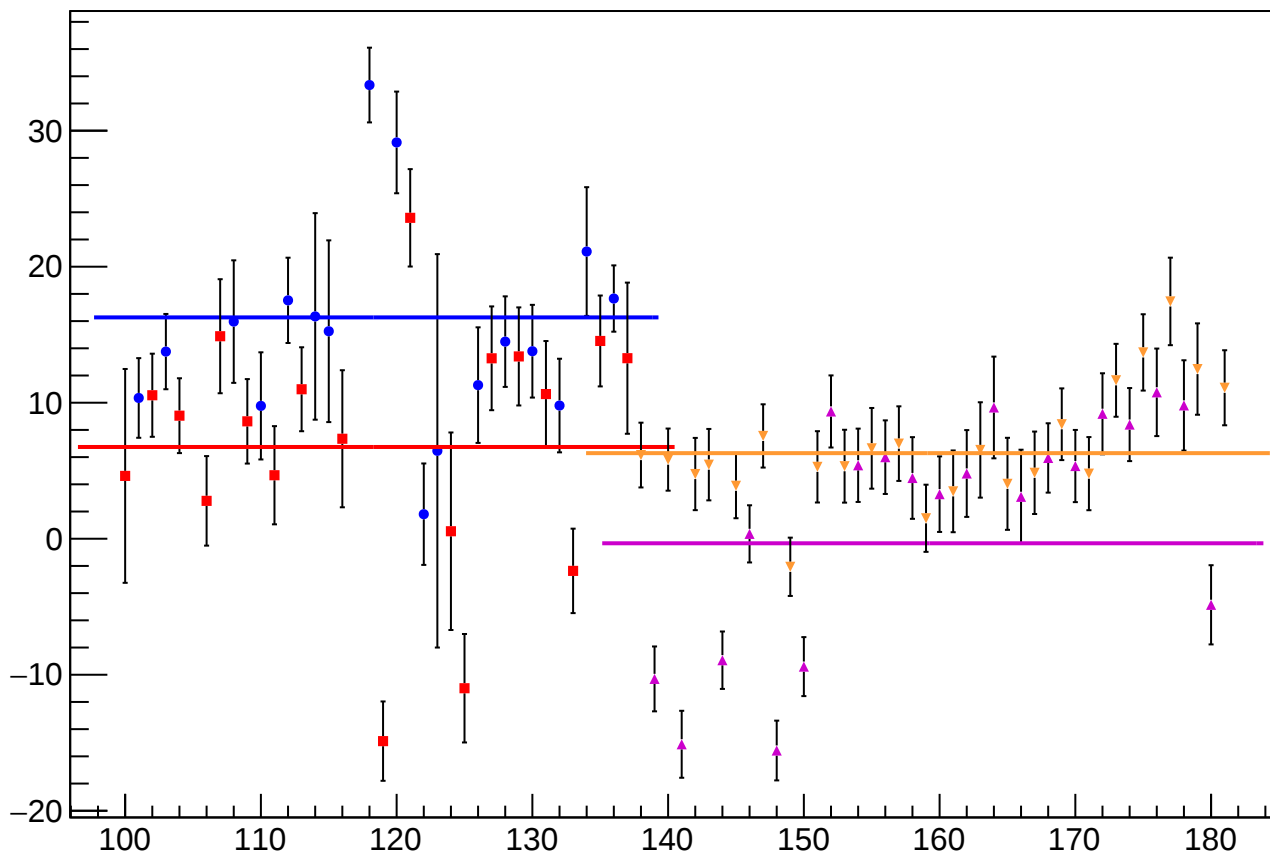
Right: 2258.379 $\pm$ 0.432 χ^2 /NDF: 259845.0/35

In: 2259.969 $\pm$ 0.340 χ^2 /NDF:1380558.8/37

Out: 2258.161 $\pm$ 0.328 χ^2 /NDF:1433177.9/41

All: 2259.033 $\pm$ 0.236 χ^2 /NDF: 2813751.3/79

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.273 ± 0.873 $\chi^2/\text{NDF}: 81.0/16$

Left Out: 6.292 ± 0.561 $\chi^2/\text{NDF}: 53.0/22$

Right Out: 6.745 ± 0.832 $\chi^2/\text{NDF}: 130.5/18$

Left In: -0.335 ± 0.580 $\chi^2/\text{NDF}: 229.1/20$

Left: 3.091 ± 0.403 $\chi^2/\text{NDF}: 349.7/43$

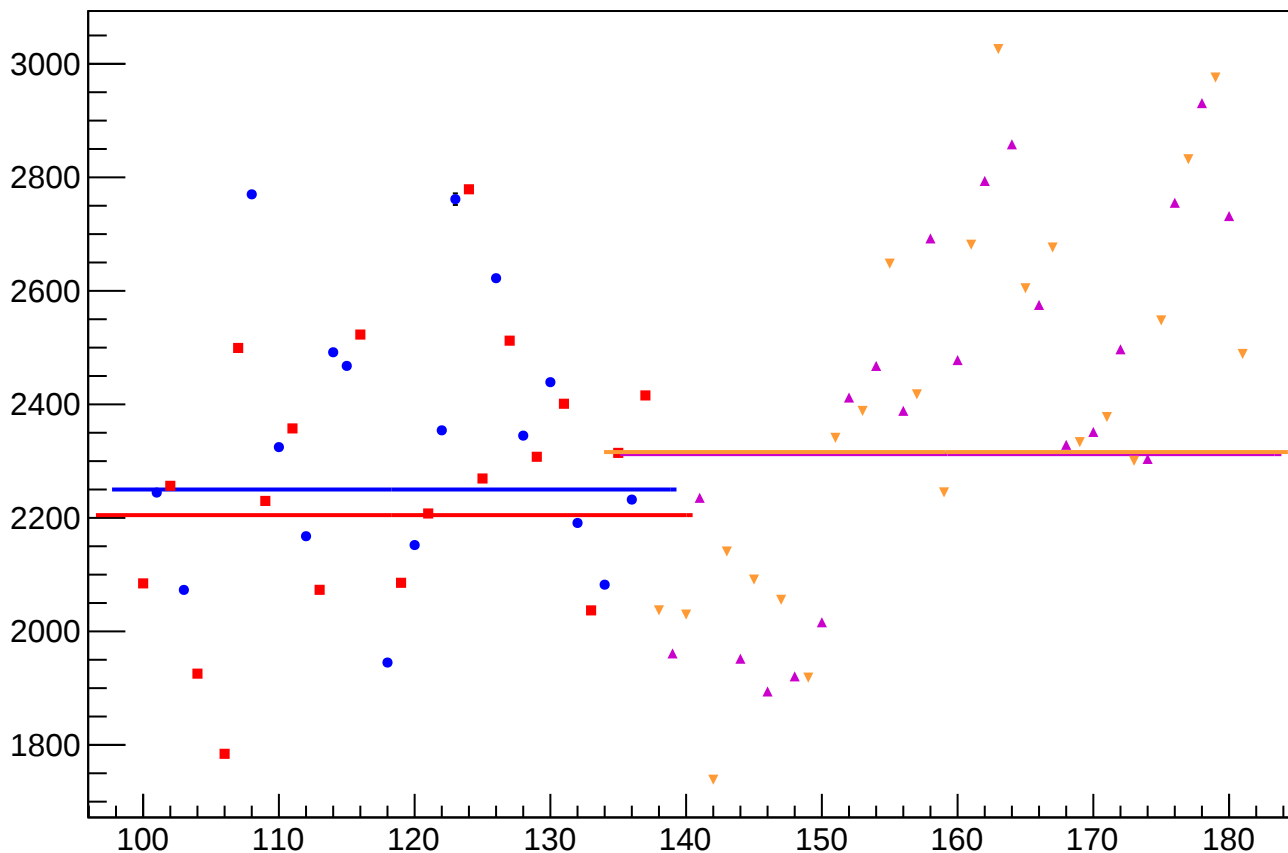
Right: 11.281 ± 0.602 $\chi^2/\text{NDF}: 273.9/35$

In: 4.750 ± 0.483 $\chi^2/\text{NDF}: 561.2/37$

Out: 6.434 ± 0.465 $\chi^2/\text{NDF}: 183.8/41$

All: 5.624 ± 0.335 $\chi^2/\text{NDF}: 751.3/79$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



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

Left Out: 2315.974 $\pm$ 0.396 χ^2 /NDF: 610716.6/22

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

Left In: 2312.316 $\pm$ 0.410 χ^2 /NDF: 590642.3/20

Left: 2314.207 $\pm$ 0.285 χ^2 /NDF: 1201400.0/43

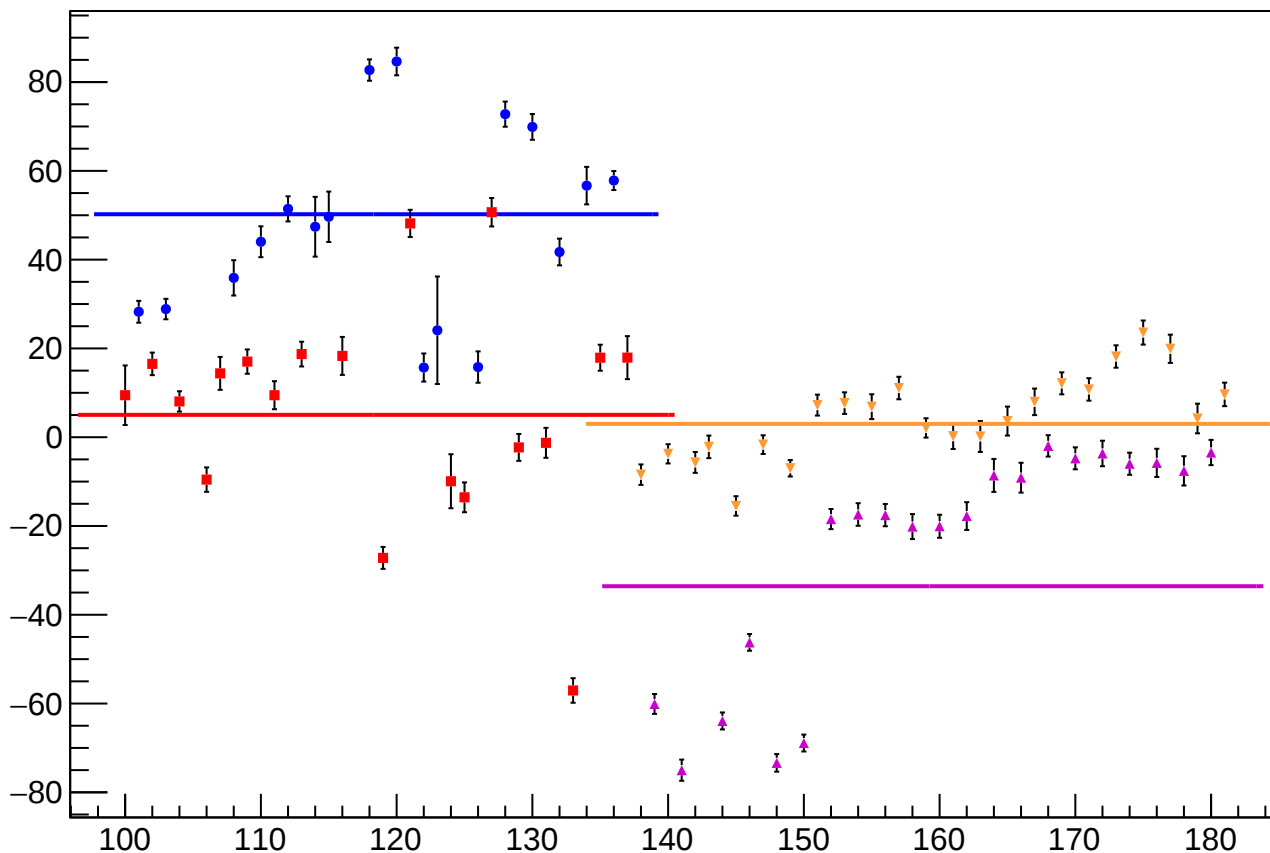
Right: 2226.349 $\pm$ 0.426 χ^2 /NDF: 226736.2/35

In: 2293.237 $\pm$ 0.342 χ^2 /NDF: 695216.1/37

Out: 2281.290 $\pm$ 0.329 χ^2 /NDF: 761676.6/41

All: 2287.036 $\pm$ 0.237 χ^2 /NDF: 1457527.8/79

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.230+/-0.752 χ^2/NDF : 837.5/16

Left Out: 3.002+/-0.523 χ^2/NDF : 331.9/22

Right Out: 5.035+/-0.715 χ^2/NDF : 1259.3/18

Left In: -33.571+/-0.539 χ^2/NDF : 2574.8/20

Left: -14.731+/-0.375 χ^2/NDF : 5276.7/43

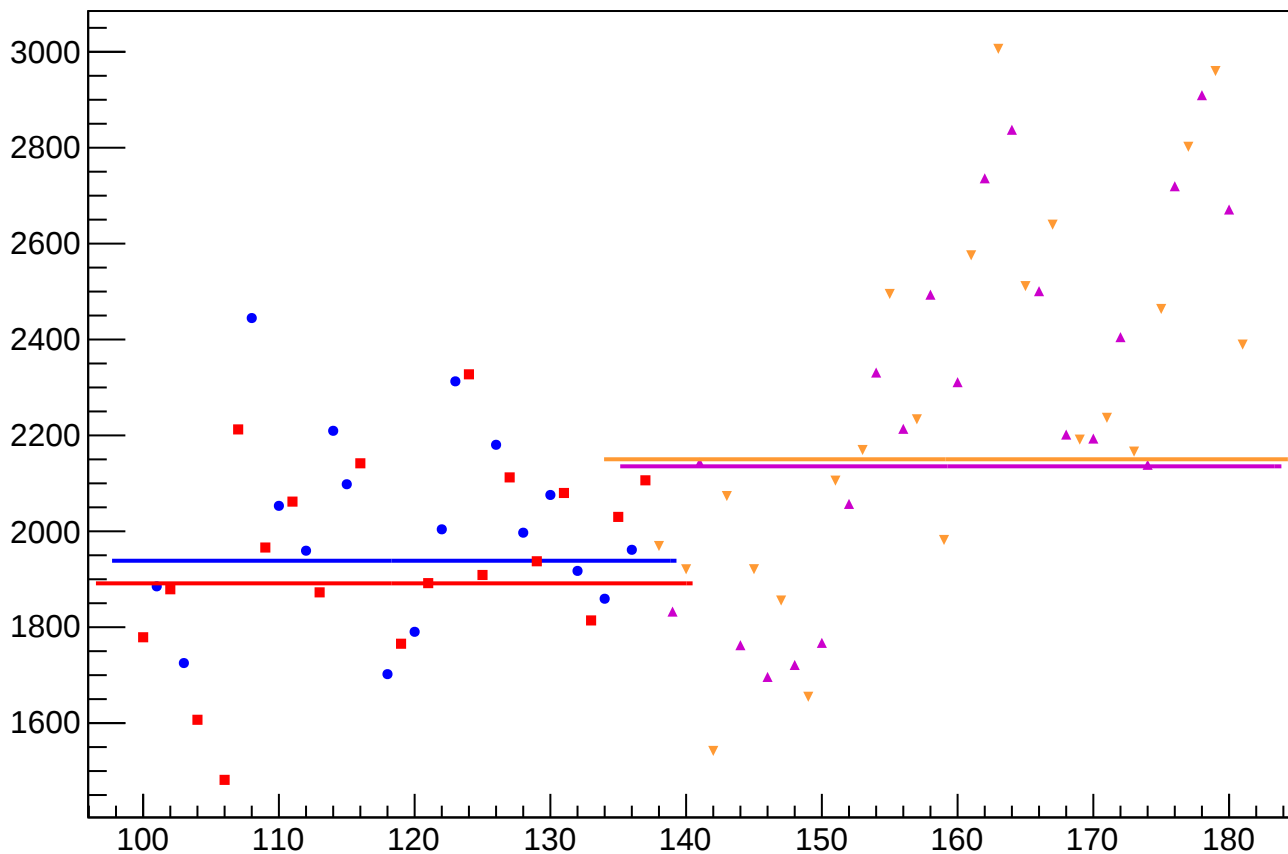
Right: 26.479+/-0.518 χ^2/NDF : 3994.7/35

In: -5.120+/-0.438 χ^2/NDF : 11613.1/37

Out: 3.711+/-0.422 χ^2/NDF : 1596.6/41

All: -0.539+/-0.304 χ^2/NDF : 13420.3/79

diff_bpm0i01aX_rms vs Slug, Sign Corrected



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

Left Out: 2150.238 $\pm$ 0.370 χ^2 /NDF: 908781.4/22

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

Left In: 2135.520 $\pm$ 0.381 χ^2 /NDF: 879538.7/20

Left: 2143.102 $\pm$ 0.265 χ^2 /NDF: 1789087.7/43

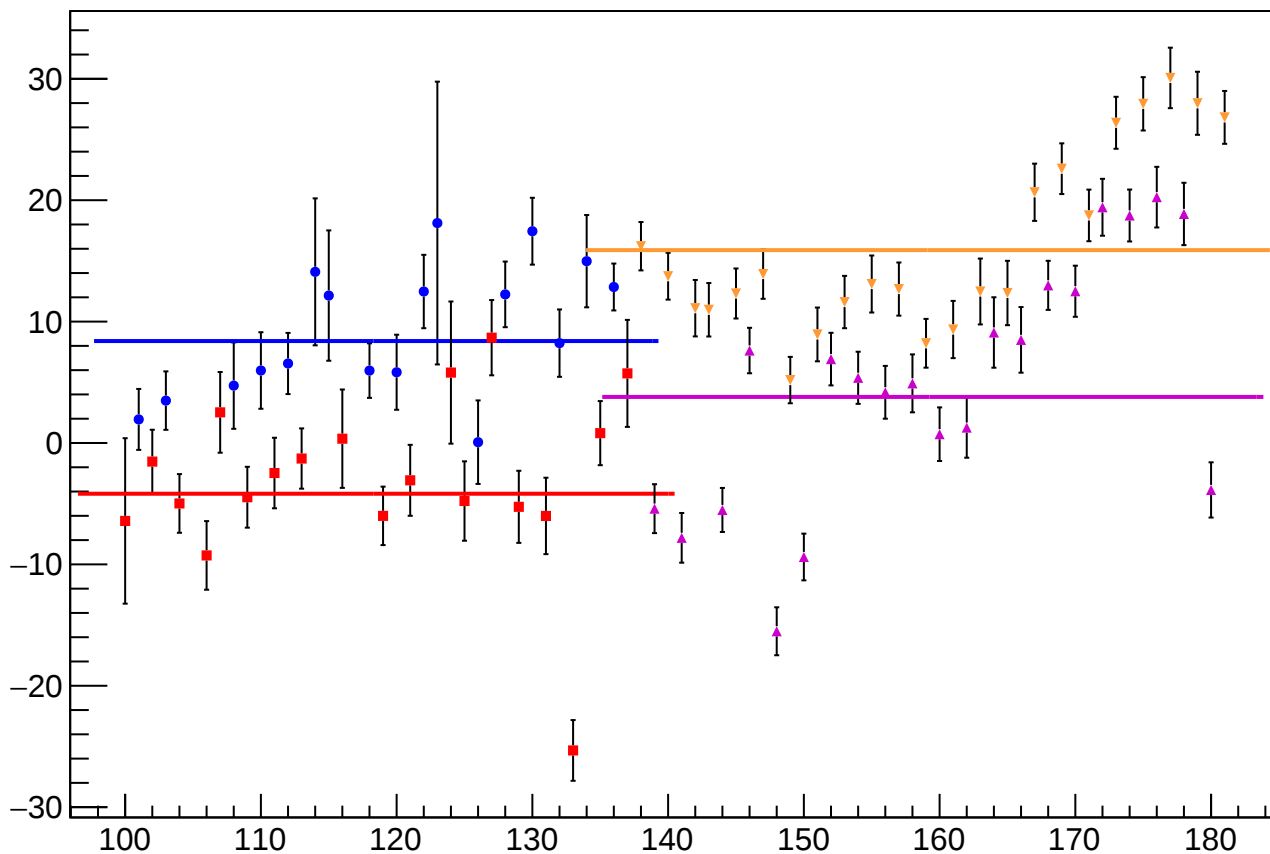
Right: 1913.832 $\pm$ 0.366 χ^2 /NDF: 250866.9/35

In: 2068.669 $\pm$ 0.310 χ^2 /NDF: 1070099.0/37

Out: 2059.947 $\pm$ 0.298 χ^2 /NDF: 1226279.3/41

All: 2064.145 $\pm$ 0.215 χ^2 /NDF: 2296789.2/79

diff_bpm0i01aY_mean vs Slug, Sign Corrected



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

Left Out: 15.888 ± 0.459 $\chi^2/\text{NDF}: 238.4/22$

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

Left In: 3.795 ± 0.476 $\chi^2/\text{NDF}: 458.5/20$

Left: 10.063 ± 0.330 $\chi^2/\text{NDF}: 1031.7/43$

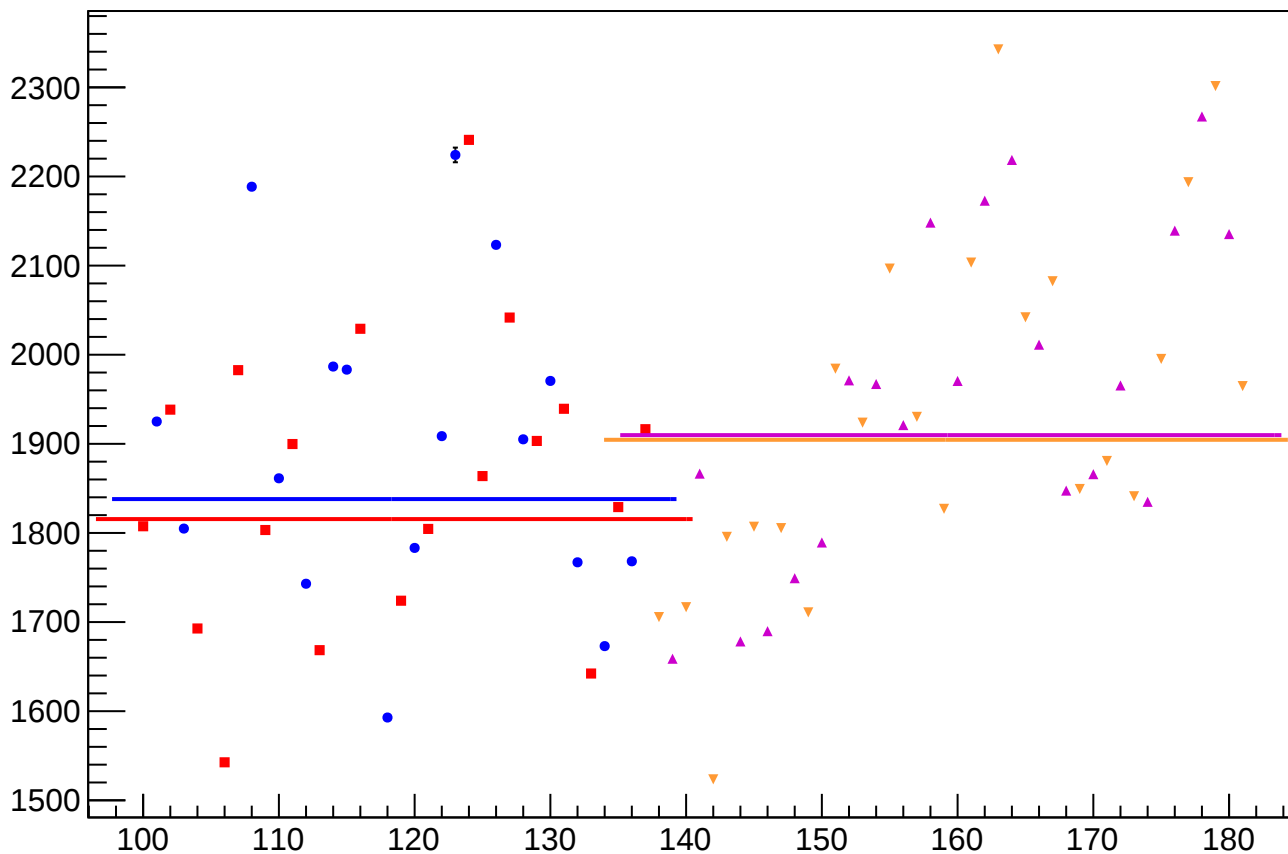
Right: 1.849 ± 0.493 $\chi^2/\text{NDF}: 320.9/35$

In: 5.215 ± 0.396 $\chi^2/\text{NDF}: 533.1/37$

Out: 9.657 ± 0.381 $\chi^2/\text{NDF}: 945.6/41$

All: 7.521 ± 0.274 $\chi^2/\text{NDF}: 1544.1/79$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

Left Out: 1904.534+/-0.324 χ^2/NDF : 311784.6/22

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

Left In: 1909.773+/-0.336 χ^2/NDF : 267294.7/20

Left: 1907.058+/-0.234 χ^2/NDF : 579205.0/43

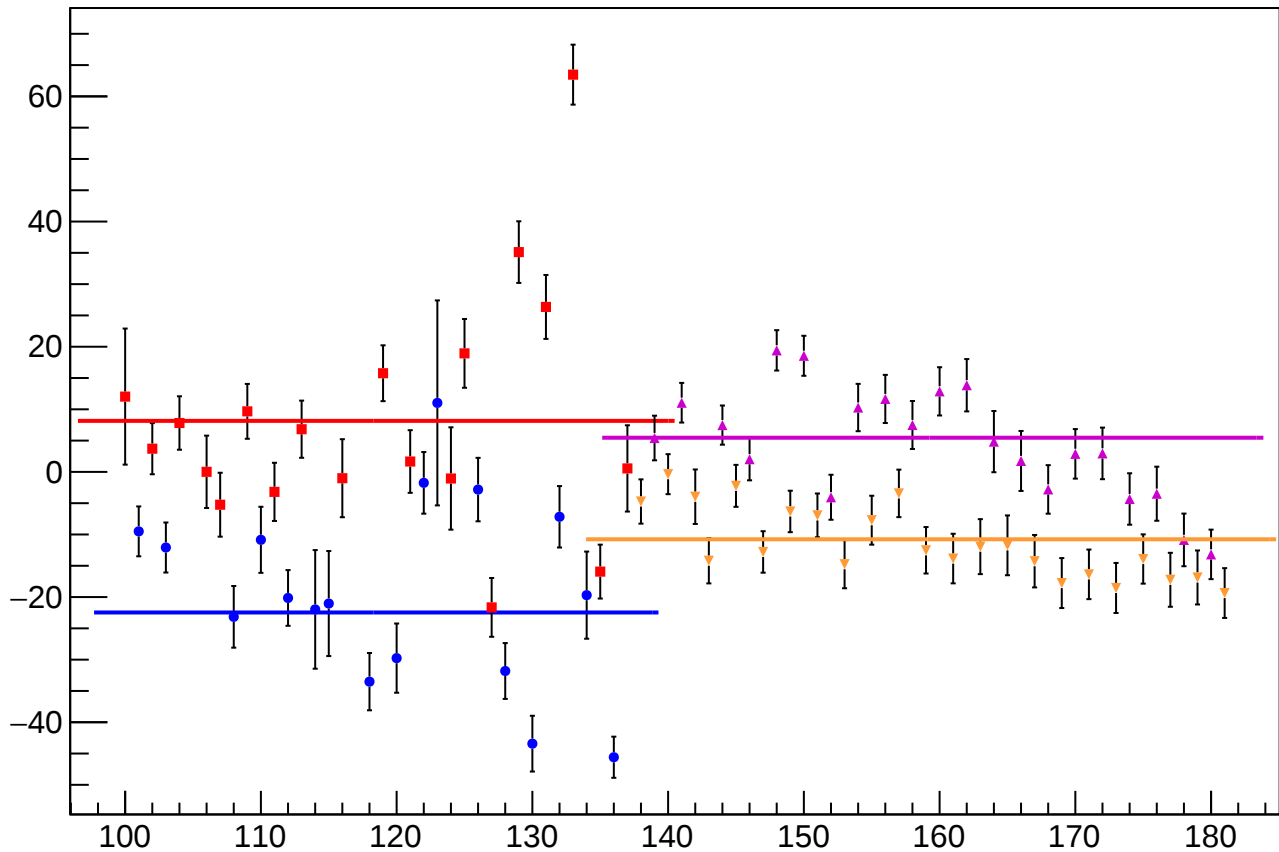
Right: 1826.322+/-0.349 χ^2/NDF : 171512.1/35

In: 1887.634+/-0.280 χ^2/NDF : 364159.5/37

Out: 1876.910+/-0.269 χ^2/NDF : 422792.7/41

All: 1882.068+/-0.194 χ^2/NDF : 787714.7/79

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.463 ± 1.197 χ^2/NDF : 152.8/16

Left Out: -10.766 ± 0.797 χ^2/NDF : 52.2/22

Right Out: 8.153 ± 1.158 χ^2/NDF : 277.0/18

Left In: 5.460 ± 0.823 χ^2/NDF : 112.5/20

Left: -2.913 ± 0.572 χ^2/NDF : 365.4/43

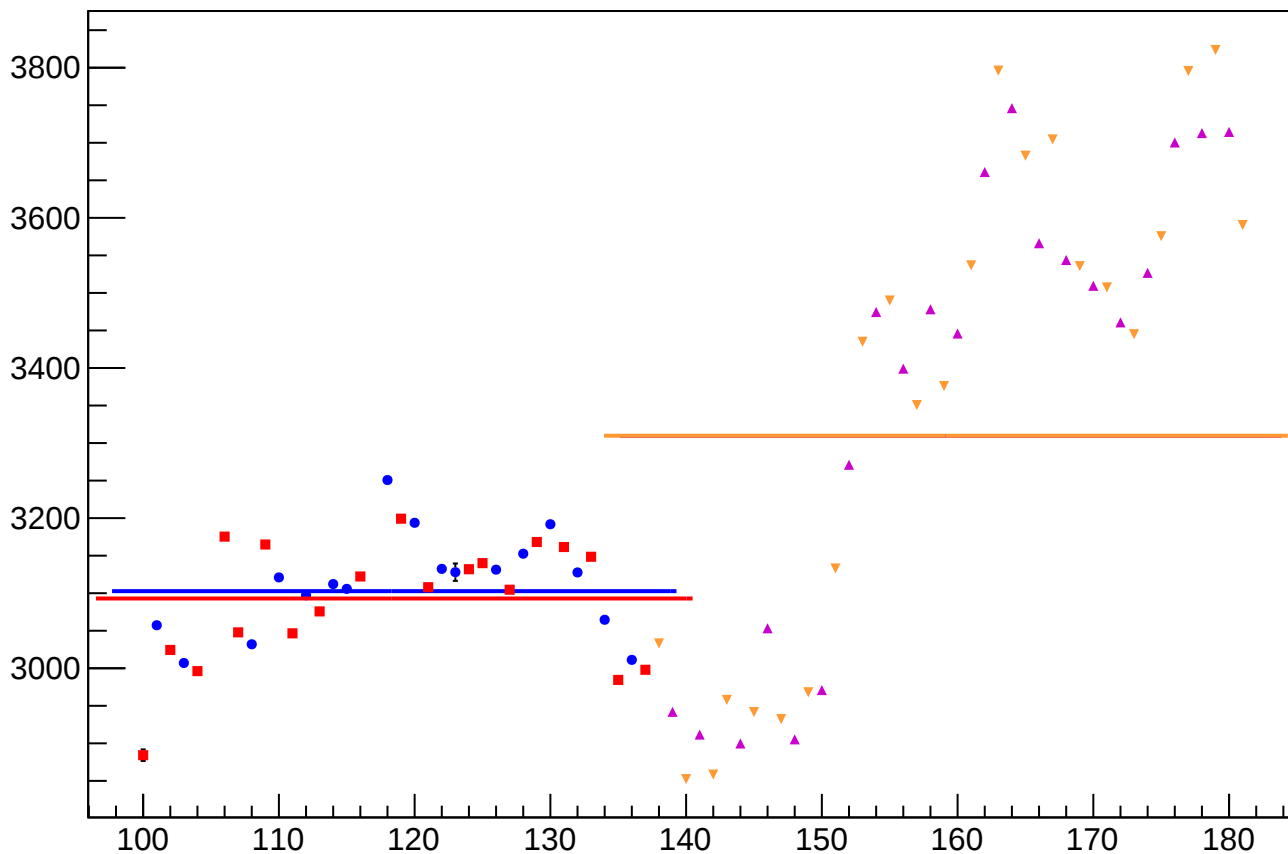
Right: -6.657 ± 0.832 χ^2/NDF : 767.7/35

In: -3.501 ± 0.678 χ^2/NDF : 635.0/37

Out: -4.691 ± 0.656 χ^2/NDF : 510.2/41

All: -4.115 ± 0.472 χ^2/NDF : 1146.8/79

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3102.744 $\pm$ 0.846 χ^2/NDF : 7337.7/16

Left Out: 3309.765 $\pm$ 0.563 χ^2/NDF : 324750.5/22

Right Out: 3092.954 $\pm$ 0.819 χ^2/NDF : 7802.6/18

Left In: 3309.386 $\pm$ 0.582 χ^2/NDF : 276196.4/20

Left: 3309.582 $\pm$ 0.405 χ^2/NDF : 600947.1/43

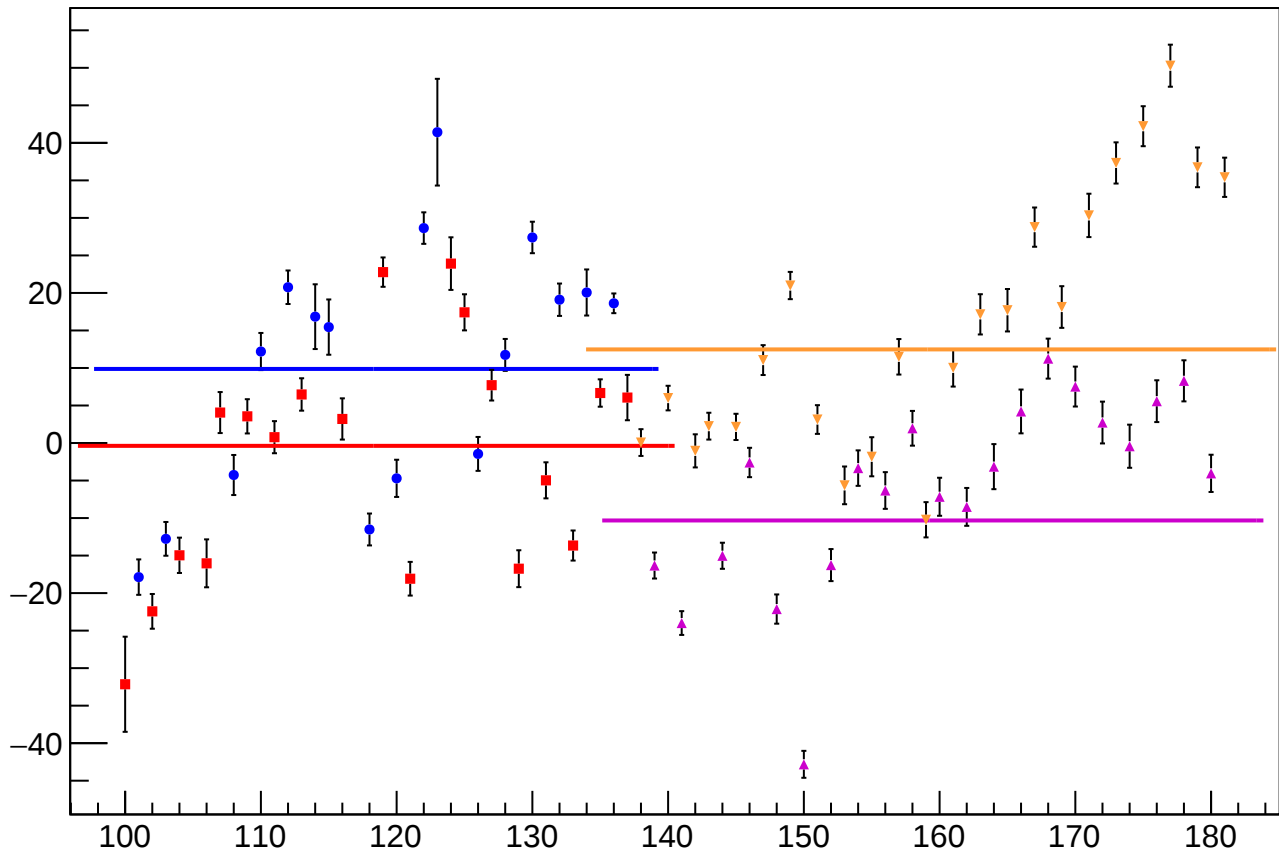
Right: 3097.690 $\pm$ 0.589 χ^2/NDF : 15209.4/35

In: 3243.073 $\pm$ 0.479 χ^2/NDF : 324025.9/37

Out: 3240.146 $\pm$ 0.464 χ^2/NDF : 380109.5/41

All: 3241.562 $\pm$ 0.333 χ^2/NDF : 704154.7/79

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.873 ± 0.560 χ^2/NDF : 701.6/16

Left Out: 12.475 ± 0.469 χ^2/NDF : 1029.5/22

Right Out: -0.377 ± 0.548 χ^2/NDF : 628.0/18

Left In: -10.321 ± 0.491 χ^2/NDF : 783.2/20

Left: 1.588 ± 0.339 χ^2/NDF : 2938.5/43

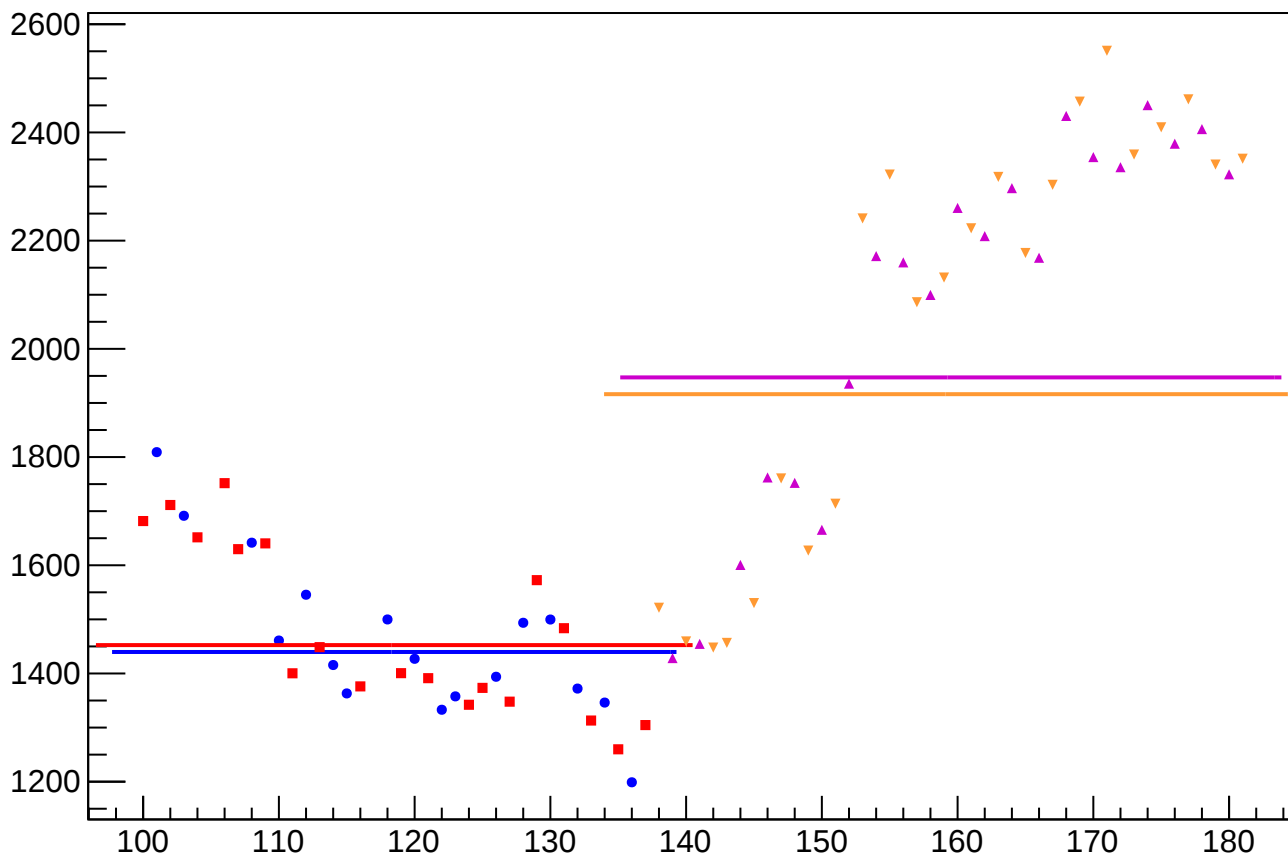
Right: 4.631 ± 0.392 χ^2/NDF : 1500.7/35

In: -1.551 ± 0.369 χ^2/NDF : 2219.3/37

Out: 7.032 ± 0.356 χ^2/NDF : 1974.8/41

All: 2.893 ± 0.256 χ^2/NDF : 4473.7/79

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1439.733 $\pm$ 0.396 χ^2 /NDF: 172867.1/16

Left Out: 1916.228 $\pm$ 0.332 χ^2 /NDF:1379158.1/22

Right Out: 1452.445 $\pm$ 0.387 χ^2 /NDF: 138400.9/18

Left In: 1947.228 $\pm$ 0.347 χ^2 /NDF:1034594.9/20

Left: 1931.032 $\pm$ 0.240 χ^2 /NDF: 2417917.3/43

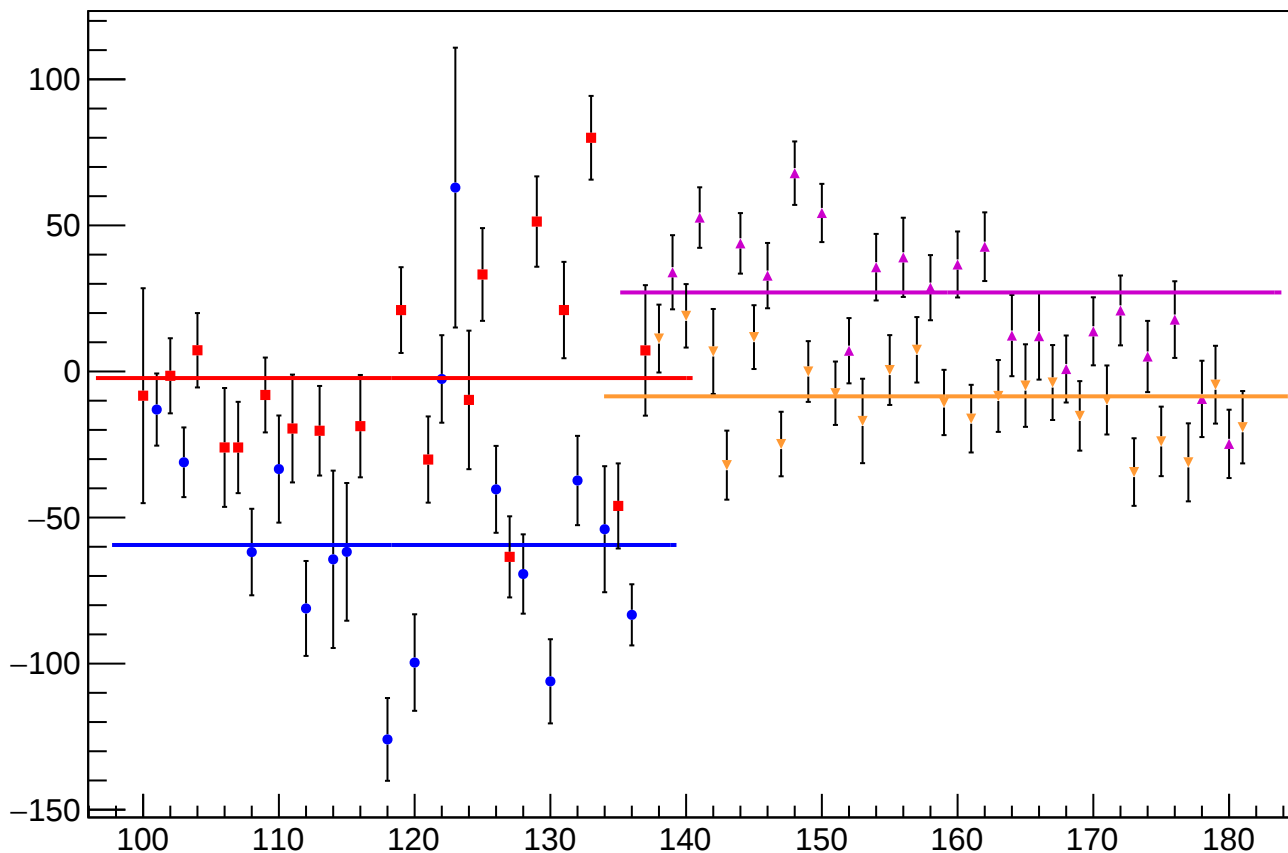
Right: 1446.234 $\pm$ 0.277 χ^2 /NDF: 311794.3/35

In: 1726.832 $\pm$ 0.261 χ^2 /NDF:2135197.1/37

Out: 1719.826 $\pm$ 0.252 χ^2 /NDF:2344069.5/41

All: 1723.205 $\pm$ 0.181 χ^2 /NDF: 4479639.2/79

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -59.392 ± 3.736 χ^2/NDF : 92.5/16

Left Out: -8.513 ± 2.488 χ^2/NDF : 35.0/22

Right Out: -2.255 ± 3.636 χ^2/NDF : 94.4/18

Left In: 27.048 ± 2.556 χ^2/NDF : 78.0/20

Left: 8.785 ± 1.783 χ^2/NDF : 212.5/43

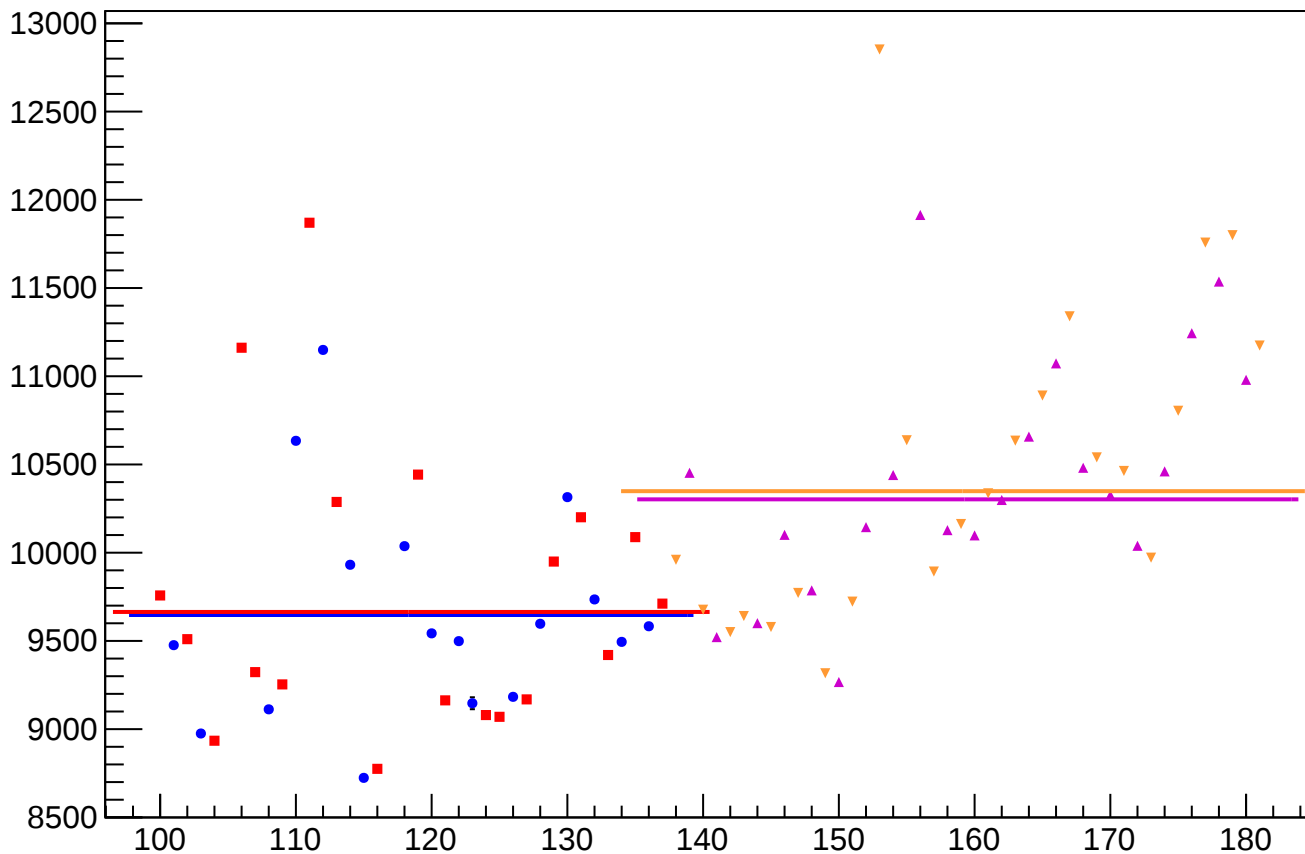
Right: -30.055 ± 2.606 χ^2/NDF : 307.0/35

In: -0.522 ± 2.110 χ^2/NDF : 535.3/37

Out: -6.518 ± 2.053 χ^2/NDF : 131.4/41

All: -3.601 ± 1.471 χ^2/NDF : 670.8/79

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9646.921 ± 2.641 $\chi^2/\text{NDF}: 43997.1/16$

Left Out: 10348.703 ± 1.759 $\chi^2/\text{NDF}: 206516.0/22$

Right Out: 9664.191 ± 2.571 $\chi^2/\text{NDF}: 77326.5/18$

Left In: 10302.331 ± 1.808 $\chi^2/\text{NDF}: 120961.1/20$

Left: 10326.146 ± 1.261 $\chi^2/\text{NDF}: 327815.1/43$

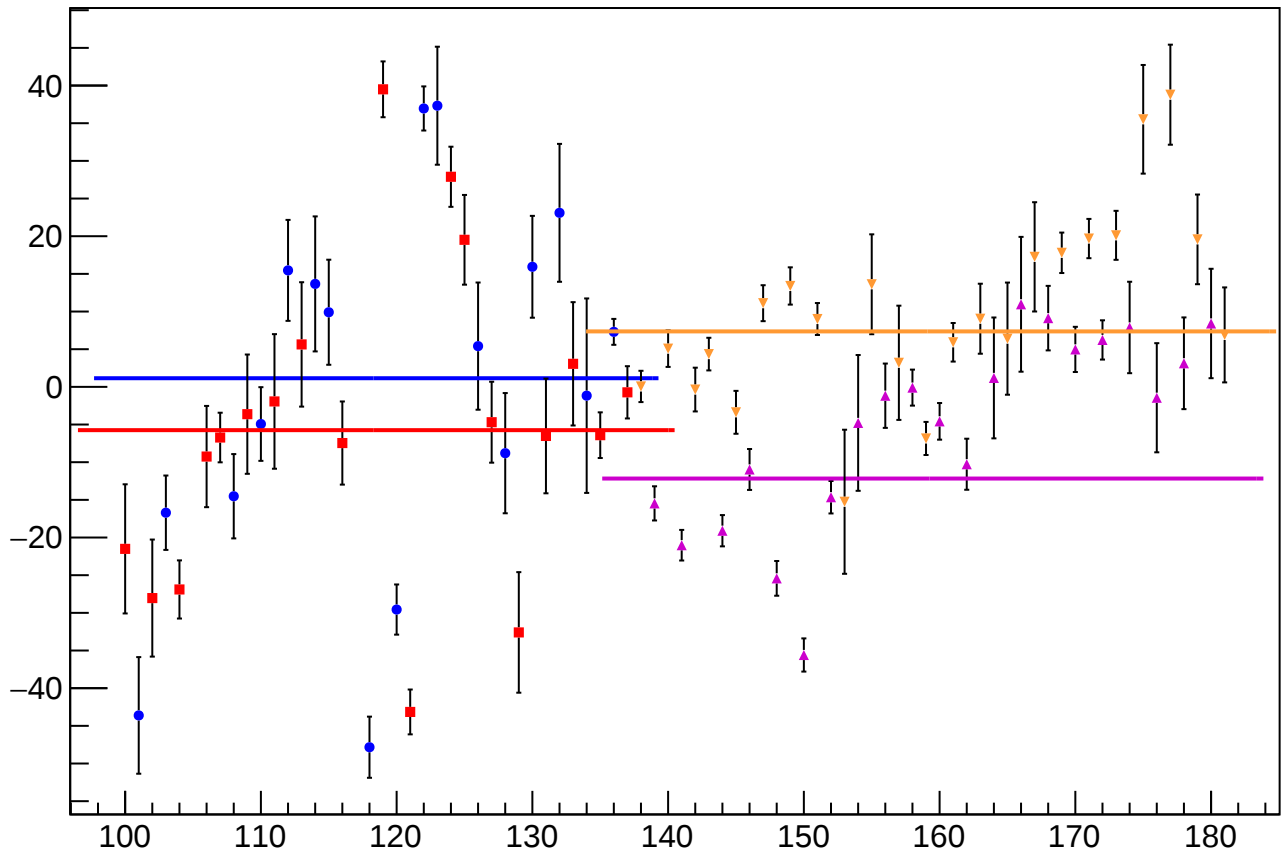
Right: 9655.788 ± 1.842 $\chi^2/\text{NDF}: 121345.6/35$

In: 10093.287 ± 1.492 $\chi^2/\text{NDF}: 206887.7/37$

Out: 10130.450 ± 1.452 $\chi^2/\text{NDF}: 332115.4/41$

All: 10112.372 ± 1.040 $\chi^2/\text{NDF}: 539321.9/79$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 1.147 $\pm$ 1.067 χ^2/NDF : 490.7/16

Left Out: 7.363 $\pm$ 0.647 χ^2/NDF :191.2/22

Right Out: -5.747 $\pm$ -1.092 χ^2/NDF : 455.0/18

Left In: -12.170 $\pm$ -0.653 χ^2/NDF :366.9/20

Left: -2.315 $\pm$ -0.460 χ^2/NDF : 1009.5/43

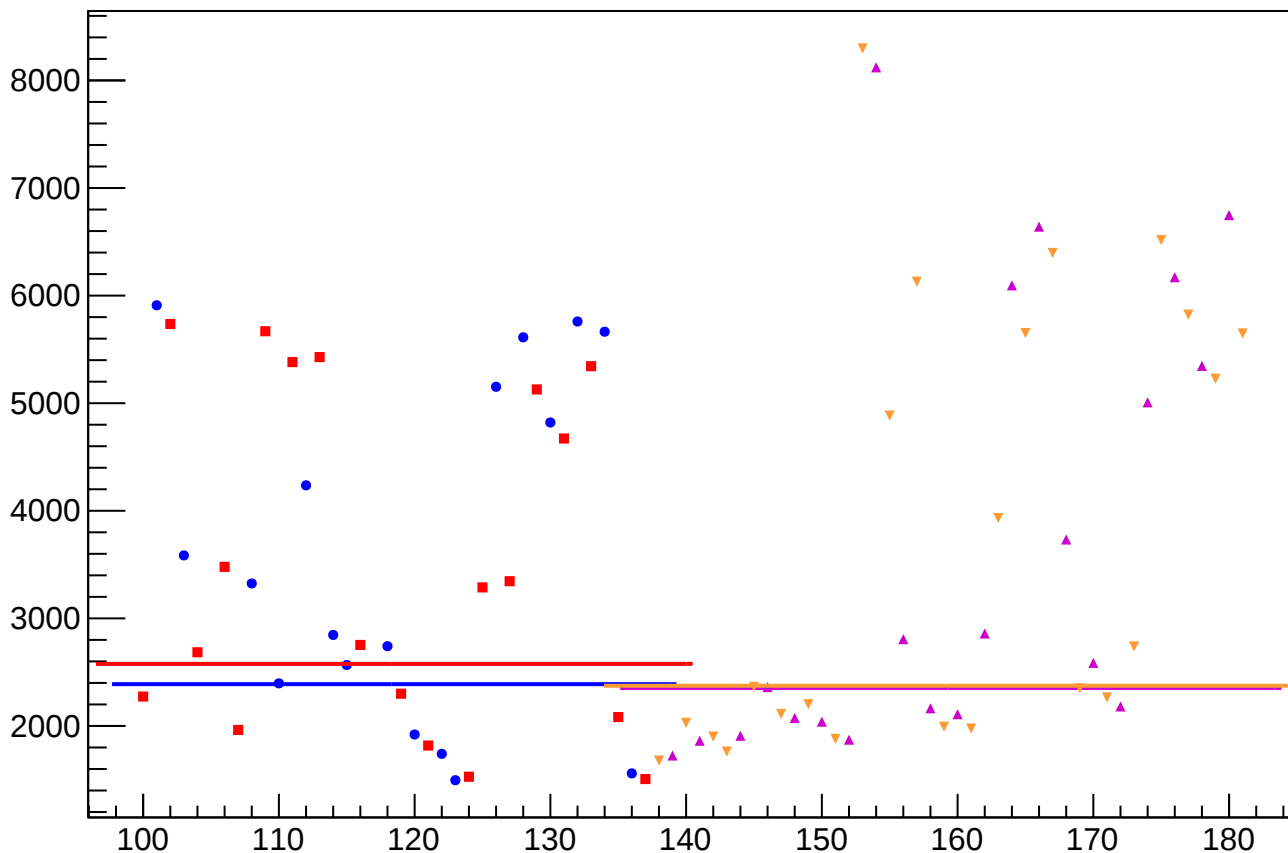
Right: -2.221 $\pm$ -0.763 χ^2/NDF : 966.1/35

In: -8.543 $\pm$ -0.557 χ^2/NDF :970.8/37

Out: 3.956 $\pm$ -0.557 χ^2/NDF :752.9/41

All: -2.290 $\pm$ -0.394 χ^2/NDF : 1975.6/79

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2388.532 $\pm$ 0.755 χ^2 /NDF: 2588689.4/16

Left Out: 2373.844 $\pm$ 0.458 χ^2 /NDF: 5727777.9/22

Right Out: 2577.351 $\pm$ 0.772 χ^2 /NDF: 2358780.3/18

Left In: 2352.771 $\pm$ 0.462 χ^2 /NDF: 4726673.4/20

Left: 2363.402 $\pm$ 0.325 χ^2 /NDF: 10455502.2/43

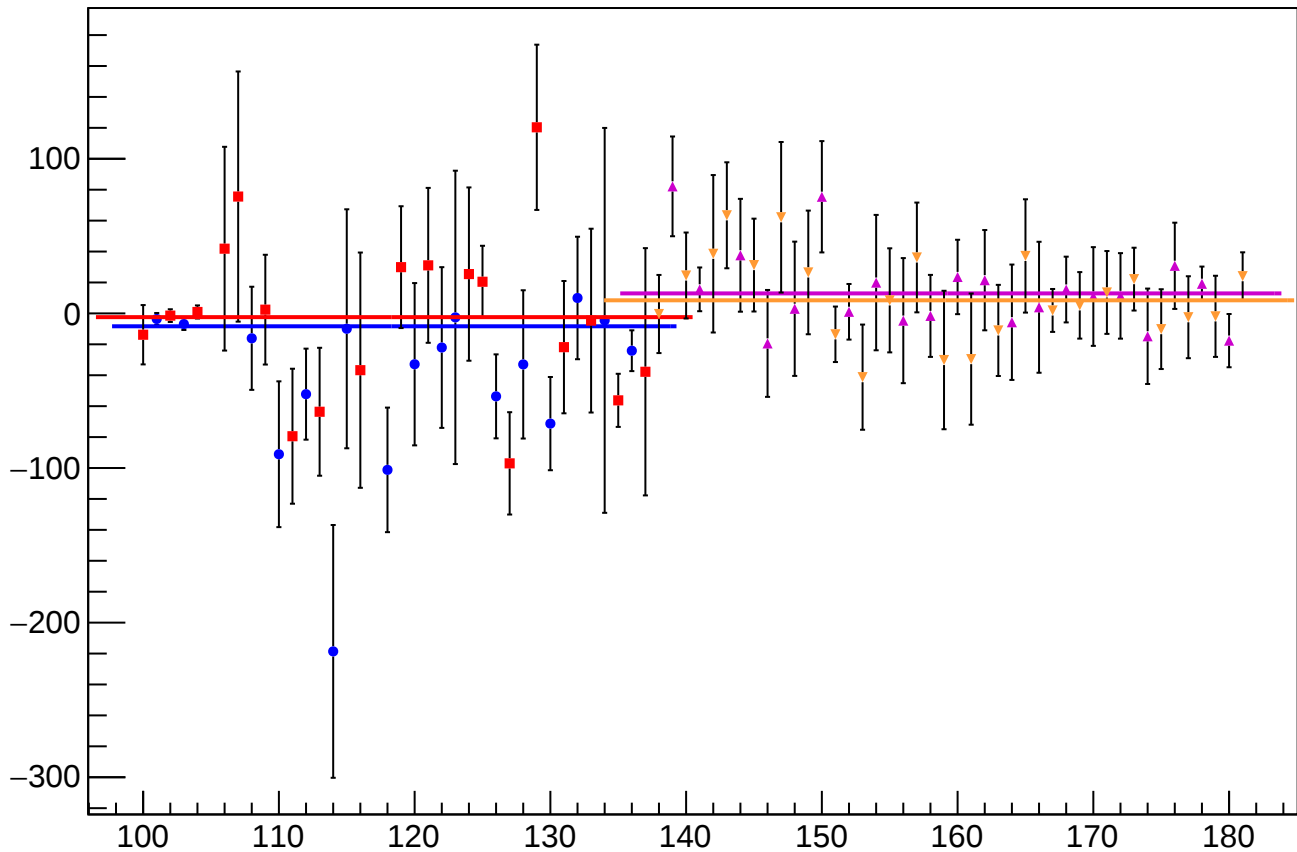
Right: 2480.778 $\pm$ 0.540 χ^2 /NDF: 4978057.3/35

In: 2362.513 $\pm$ 0.394 χ^2 /NDF: 7316996.9/37

Out: 2426.741 $\pm$ 0.394 χ^2 /NDF: 8137971.9/41

All: 2394.643 $\pm$ 0.278 χ^2 /NDF: 15468273.3/77

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

Left Out: 8.461 ± 5.376 χ^2/NDF : 14.8/22

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

Left In: 12.934 ± 5.217 χ^2/NDF : 15.3/20

Left: 10.765 ± 3.744 χ^2/NDF : 30.4/43

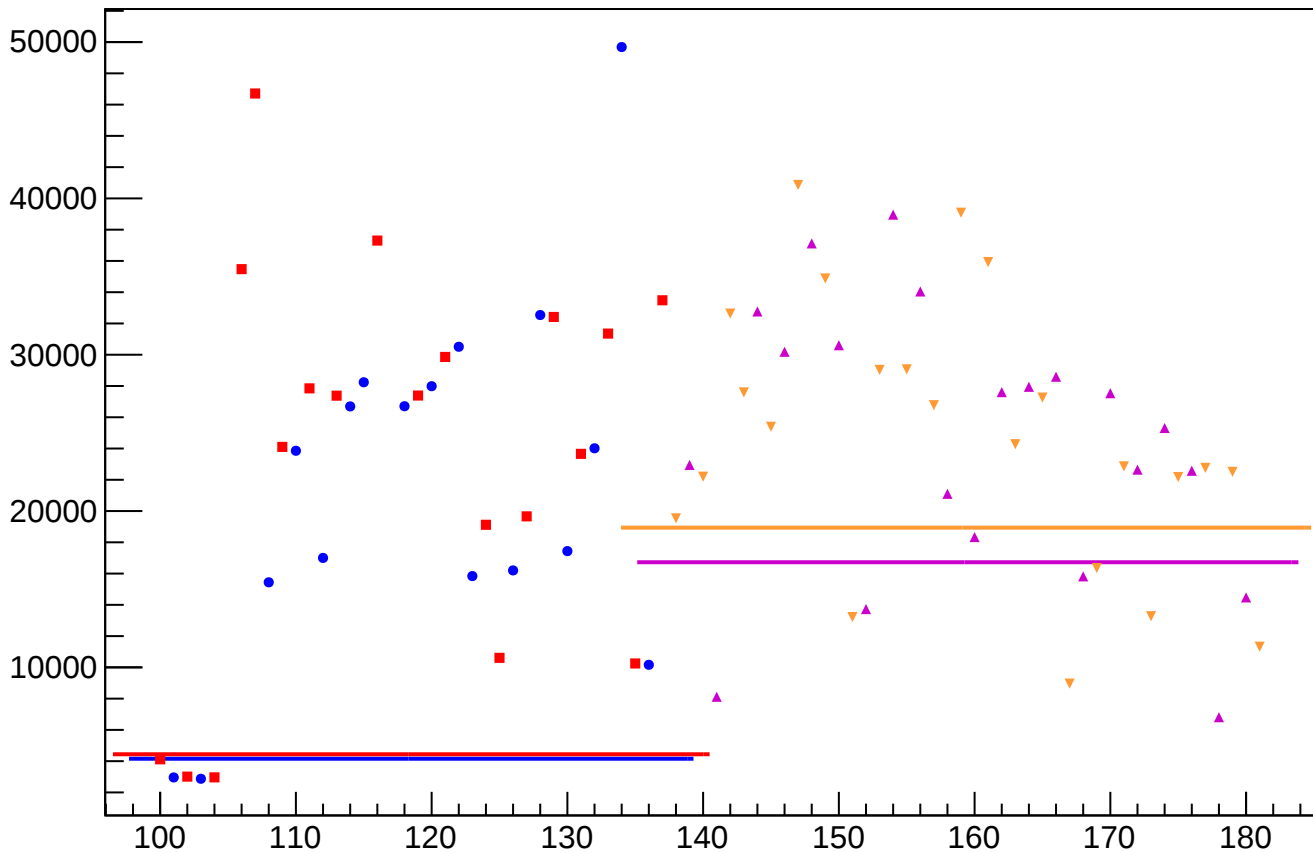
Right: -5.599 ± 1.896 χ^2/NDF : 64.6/35

In: -4.137 ± 2.319 χ^2/NDF : 56.9/37

Out: -0.117 ± 2.474 χ^2/NDF : 52.0/41

All: -2.258 ± 1.692 χ^2/NDF : 110.3/79

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4156.086 ± 1.830 $\chi^2/\text{NDF}: 5974546.9/16$

Left Out: 18938.282 ± 3.802 $\chi^2/\text{NDF}: 4526316.9/22$

Right Out: 4441.440 ± 1.971 $\chi^2/\text{NDF}: 7399930.1/18$

Left In: 16724.873 ± 3.689 $\chi^2/\text{NDF}: 5998921.2/20$

Left: 17798.321 ± 2.647 $\chi^2/\text{NDF}: 10699828.3/43$

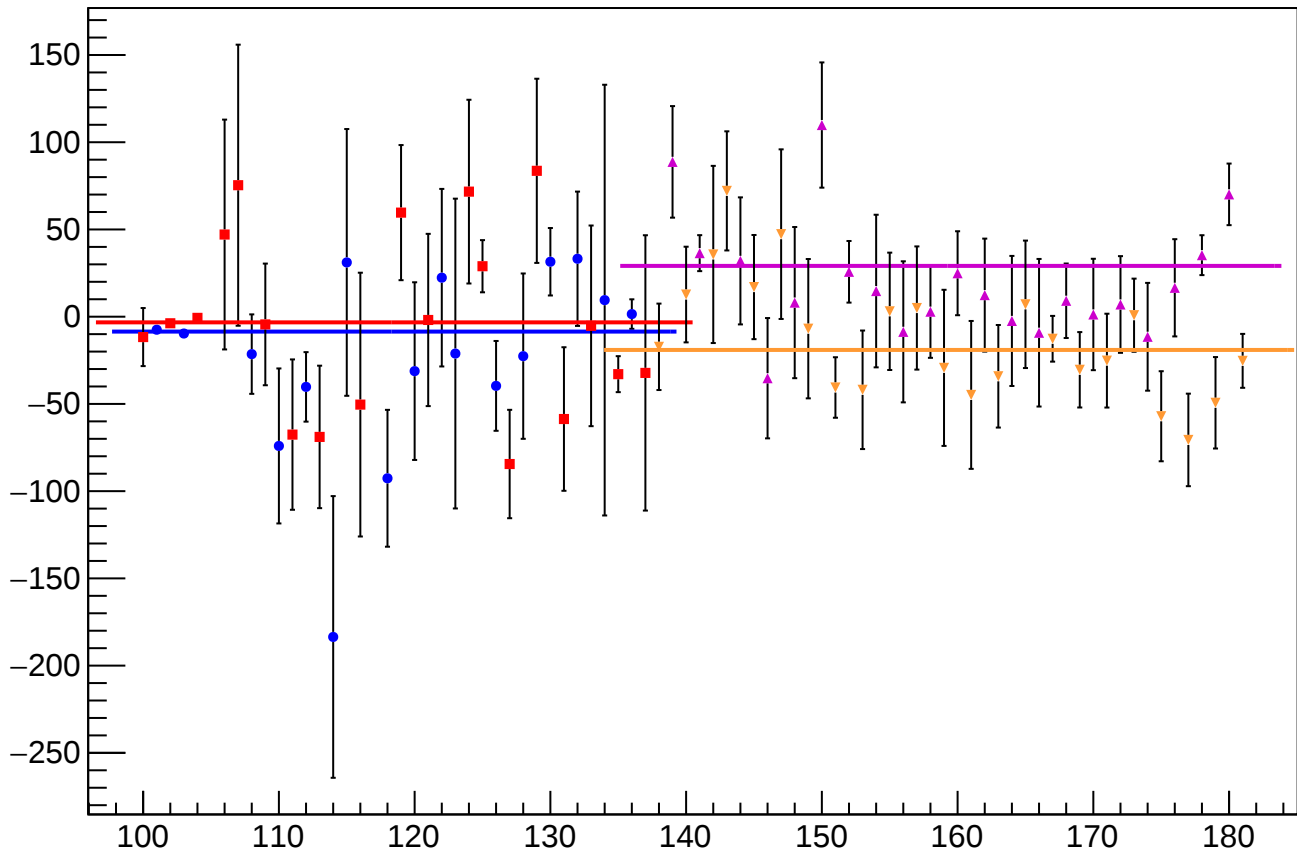
Right: 4288.220 ± 1.341 $\chi^2/\text{NDF}: 13385734.9/35$

In: 6638.400 ± 1.639 $\chi^2/\text{NDF}: 21289047.5/37$

Out: 7511.983 ± 1.750 $\chi^2/\text{NDF}: 23387899.5/41$

All: 7046.825 ± 1.196 $\chi^2/\text{NDF}: 44809696.0/71$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



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

Left Out: -19.057 $\pm$ 5.315 χ^2/NDF : 26.1/22

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

Left In: 29.118 $\pm$ 4.957 χ^2/NDF : 26.5/20

Left: 6.705 $\pm$ 3.625 χ^2/NDF : 96.5/43

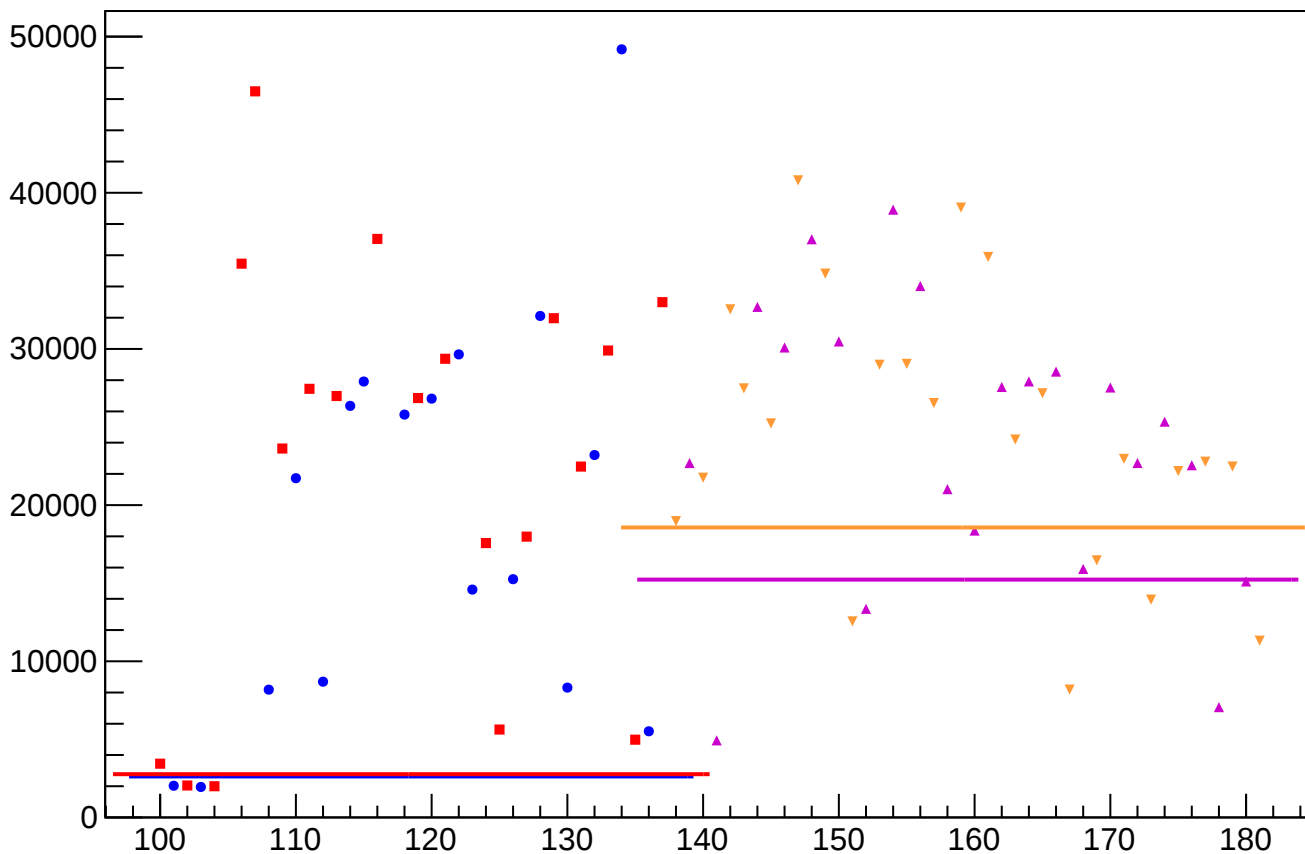
Right: -6.098 $\pm$ 1.305 χ^2/NDF : 65.0/35

In: -4.244 $\pm$ 1.674 χ^2/NDF : 101.6/37

Out: -5.077 $\pm$ 1.808 χ^2/NDF : 70.8/41

All: -4.628 $\pm$ 1.228 χ^2/NDF : 172.5/79

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2627.104 +/- 1.257 χ^2/NDF : 5569866.4/16

Left Out: 18567.586 +/- 3.758 χ^2/NDF : 4823563.6/22

Right Out: 2770.651 +/- 1.359 χ^2/NDF : 7812778.8/18

Left In: 15230.390 +/- 3.505 χ^2/NDF : 7510286.1/20

Left: 16782.982 +/- 2.563 χ^2/NDF : 12755558.5/43

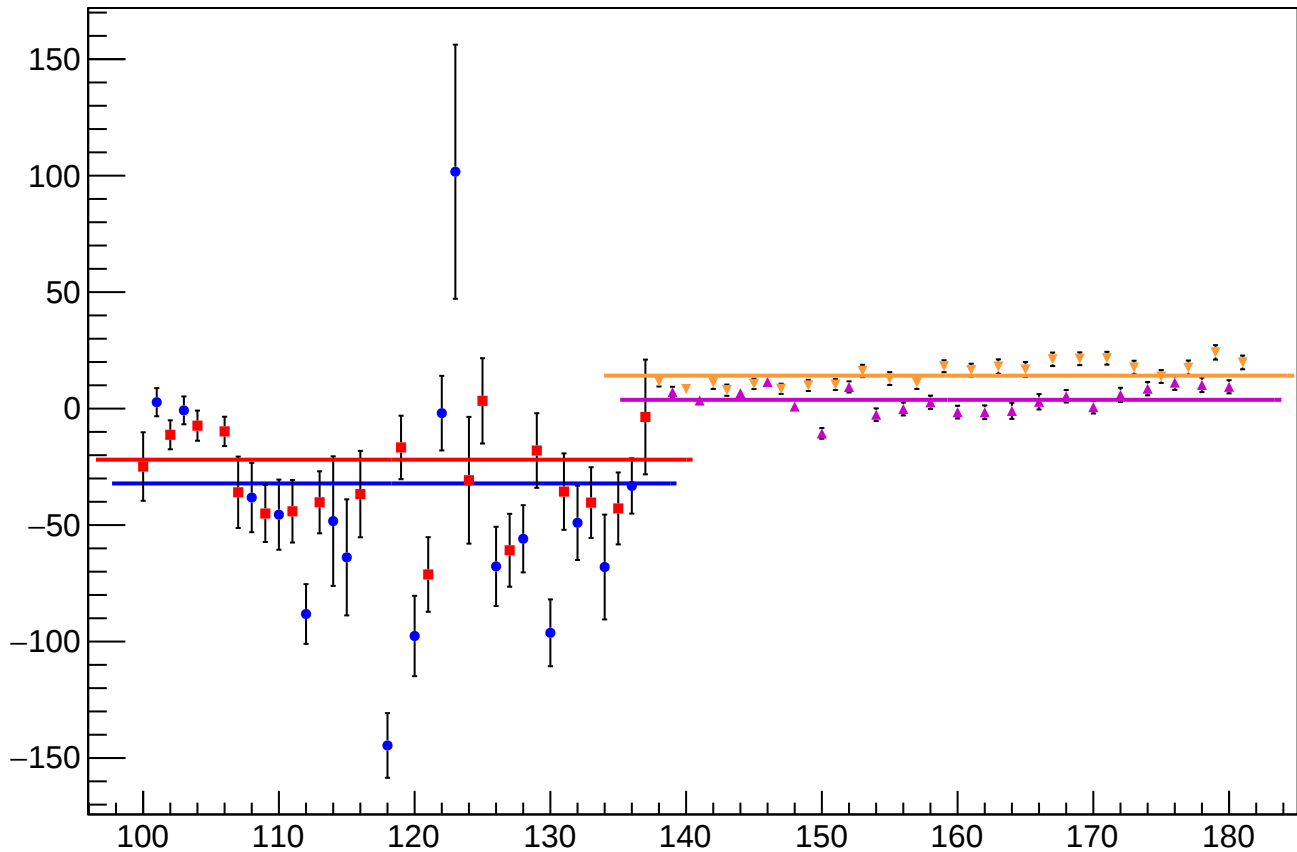
Right: 2693.290 +/- 0.923 χ^2/NDF : 13388655.9/35

In: 4063.717 +/- 1.183 χ^2/NDF : 24534784.9/37

Out: 4598.184 +/- 1.278 χ^2/NDF : 28262059.3/41

All: 4310.402 +/- 0.868 χ^2/NDF : 52890986.1/71

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.125 ± 2.985 χ^2/NDF : 203.3/16

Left Out: 14.142 ± 0.548 χ^2/NDF : 75.5/22

Right Out: -21.921 ± 2.672 χ^2/NDF : 43.9/18

Left In: 3.772 ± 0.568 χ^2/NDF : 99.1/20

Left: 9.145 ± 0.394 χ^2/NDF : 347.3/43

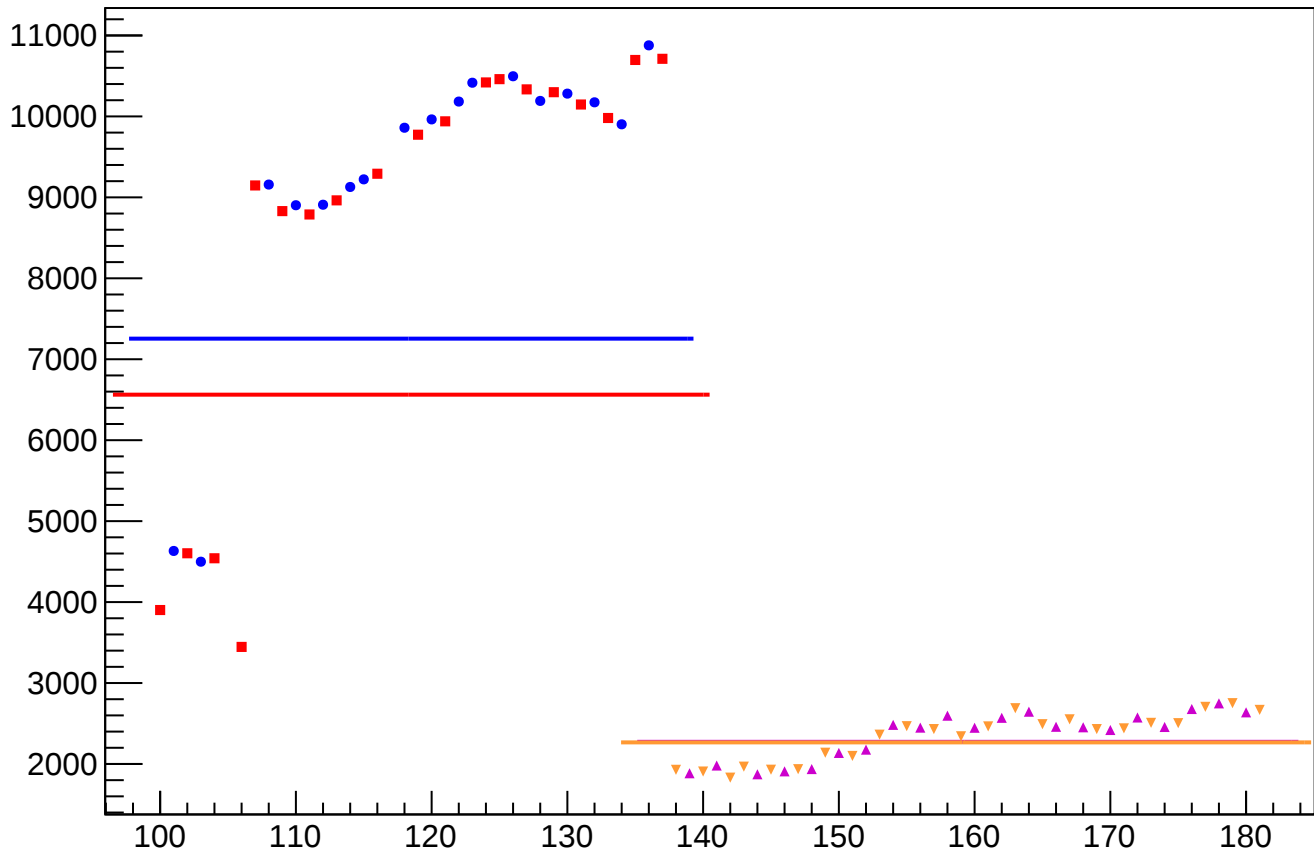
Right: -26.460 ± 1.991 χ^2/NDF : 253.7/35

In: 2.518 ± 0.558 χ^2/NDF : 442.0/37

Out: 12.687 ± 0.537 χ^2/NDF : 294.2/41

All: 7.801 ± 0.387 χ^2/NDF : 908.9/79

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7254.506+/-2.110 χ^2/NDF : 1633073.8/16

Left Out: 2266.616+/-0.387 χ^2/NDF : 558668.0/22

Right Out: 6562.403+/-1.889 χ^2/NDF : 2190982.1/18

Left In: 2273.588+/-0.402 χ^2/NDF : 551366.3/20

Left: 2269.975+/-0.279 χ^2/NDF : 1110190.5/43

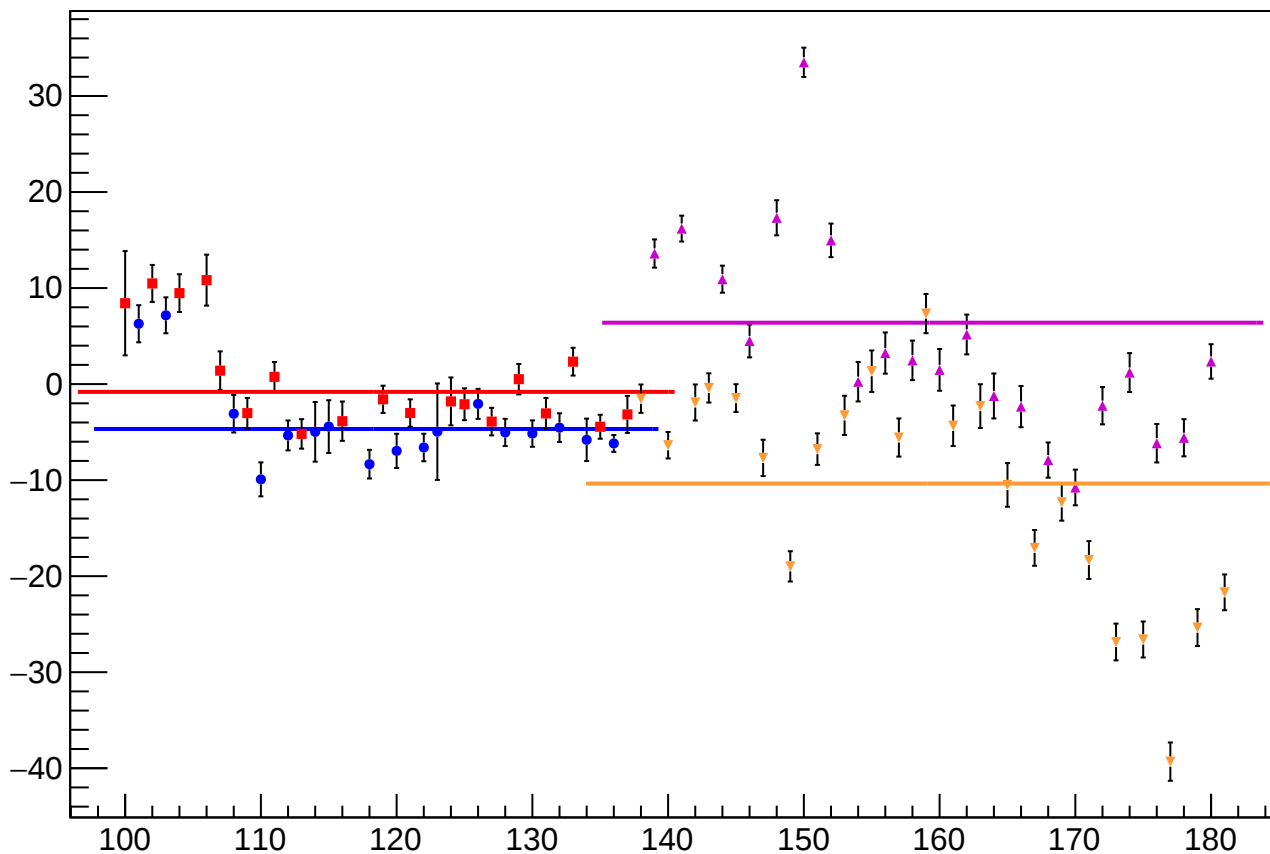
Right: 6870.261+/-1.408 χ^2/NDF : 3883763.4/35

In: 2447.638+/-0.395 χ^2/NDF : 7559960.5/37

Out: 2439.874+/-0.379 χ^2/NDF : 7712297.7/41

All: 2443.604+/-0.273 χ^2/NDF : 15272459.4/71

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.677 ± 0.393 $\chi^2/\text{NDF}: 97.6/16$

Left Out: -10.356 ± 0.379 $\chi^2/\text{NDF}: 813.0/22$

Right Out: -0.810 ± 0.389 $\chi^2/\text{NDF}: 123.7/18$

Left In: 6.393 ± 0.396 $\chi^2/\text{NDF}: 766.1/20$

Left: -2.363 ± 0.274 $\chi^2/\text{NDF}: 2513.4/43$

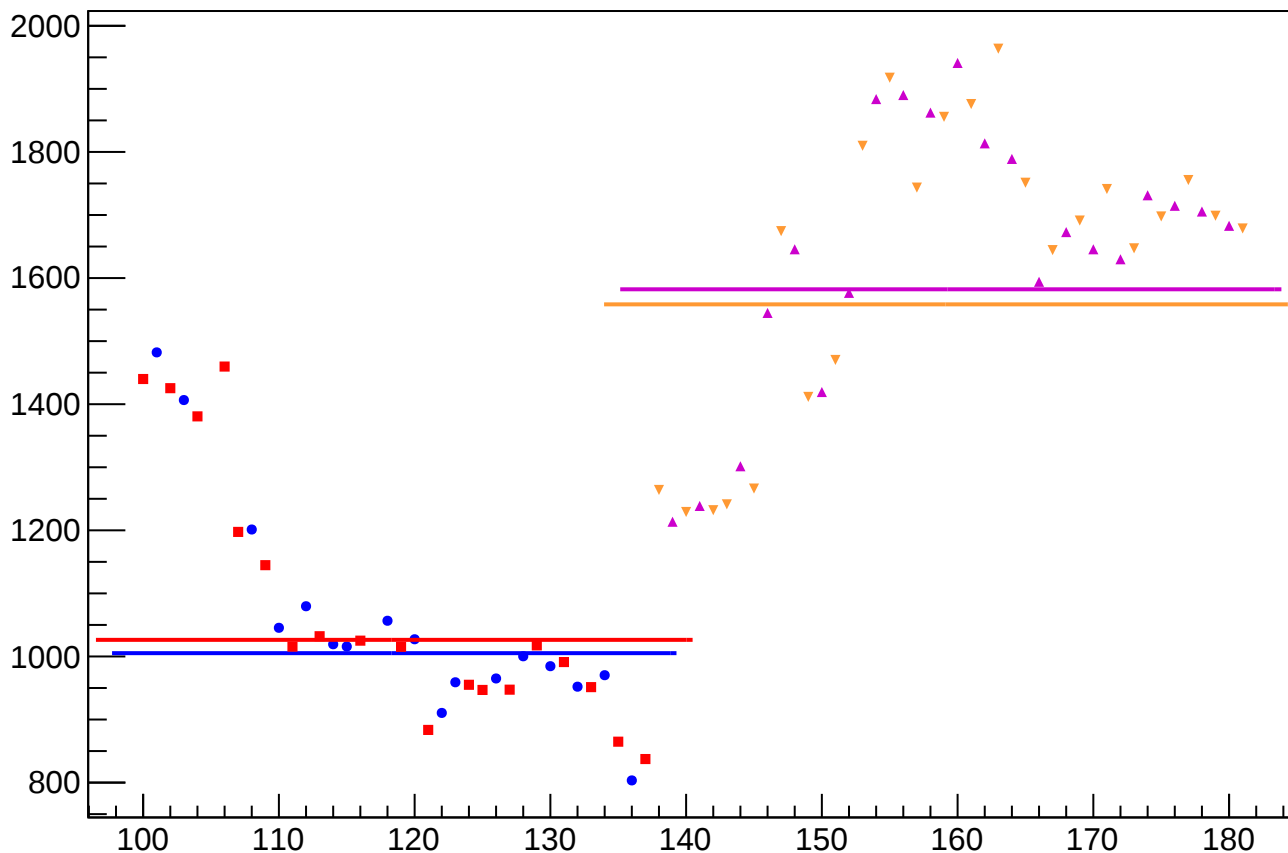
Right: -2.723 ± 0.277 $\chi^2/\text{NDF}: 270.1/35$

In: 0.818 ± 0.279 $\chi^2/\text{NDF}: 1256.8/37$

Out: -5.716 ± 0.271 $\chi^2/\text{NDF}: 1245.8/41$

All: -2.541 ± 0.195 $\chi^2/\text{NDF}: 2784.3/79$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1005.234 ± 0.278 χ^2/NDF : 361933.2/16

Left Out: 1558.315 ± 0.268 χ^2/NDF : 806901.0/22

Right Out: 1026.341 ± 0.275 χ^2/NDF : 332964.3/18

Left In: 1582.192 ± 0.280 χ^2/NDF : 619851.4/20

Left: 1569.709 ± 0.194 χ^2/NDF : 1430549.8/43

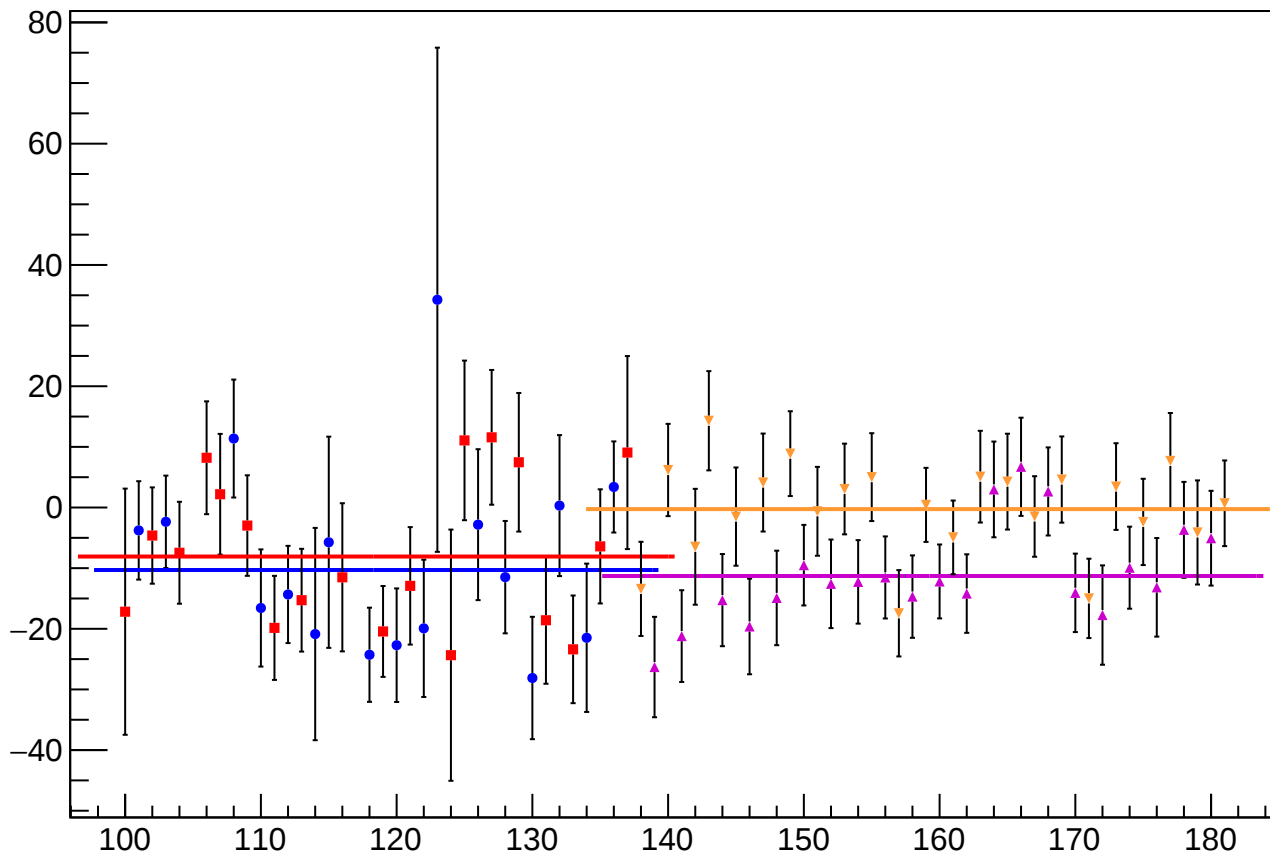
Right: 1015.898 ± 0.196 χ^2/NDF : 697807.1/35

In: 1291.628 ± 0.197 χ^2/NDF : 3117809.6/37

Out: 1299.733 ± 0.192 χ^2/NDF : 3059899.0/41

All: 1295.795 ± 0.138 χ^2/NDF : 6178575.4/79

diff_bpm0l05X_mean vs Slug, Sign Corrected



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

Left Out: -0.261 $\pm$ 1.528 χ^2/NDF : 24.3/22

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

Left In: -11.292 $\pm$ 1.587 χ^2/NDF : 21.6/20

Left: -5.568 $\pm$ 1.101 χ^2/NDF : 71.0/43

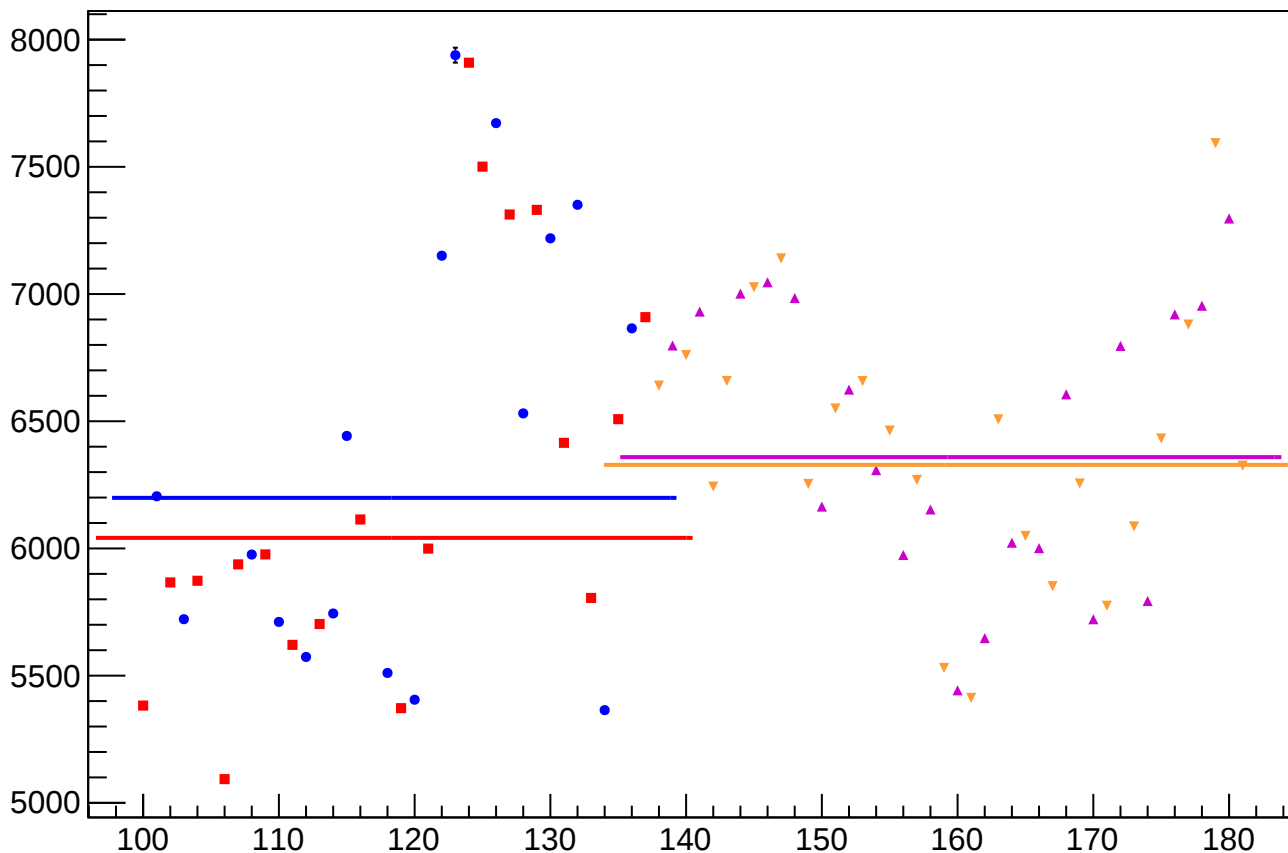
Right: -9.130 $\pm$ 1.657 χ^2/NDF : 47.1/35

In: -10.994 $\pm$ 1.326 χ^2/NDF : 44.8/37

Out: -2.683 $\pm$ 1.270 χ^2/NDF : 55.9/41

All: -6.659 $\pm$ 0.917 χ^2/NDF : 121.3/79

diff_bpm0l05X_rms vs Slug, Sign Corrected



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

Left Out: 6328.621+/-1.081 χ^2/NDF : 218826.3/22

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

Left In: 6358.998+/-1.122 χ^2/NDF : 240166.3/20

Left: 6343.236+/-0.778 χ^2/NDF : 459372.9/43

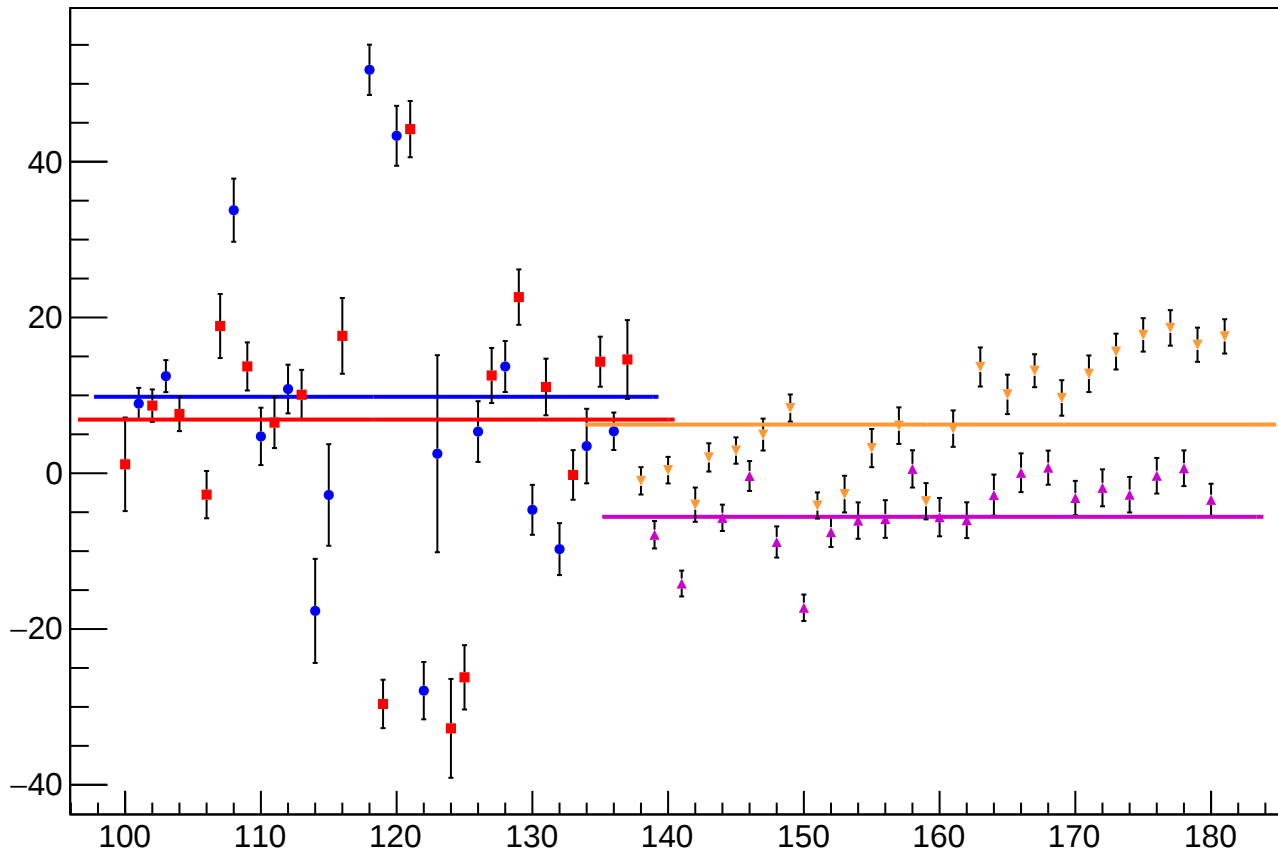
Right: 6115.860+/-1.172 χ^2/NDF : 332181.0/35

In: 6310.618+/-0.937 χ^2/NDF : 417624.7/37

Out: 6239.700+/-0.898 χ^2/NDF : 397070.5/41

All: 6273.625+/-0.648 χ^2/NDF : 817680.8/79

diff_bpm0l05Y_mean vs Slug, Sign Corrected



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

Left Out: 6.255 ± 0.436 χ^2/NDF : 288.5/22

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

Left In: -5.590 ± 0.458 χ^2/NDF : 127.4/20

Left: 0.625 ± 0.316 χ^2/NDF : 767.2/43

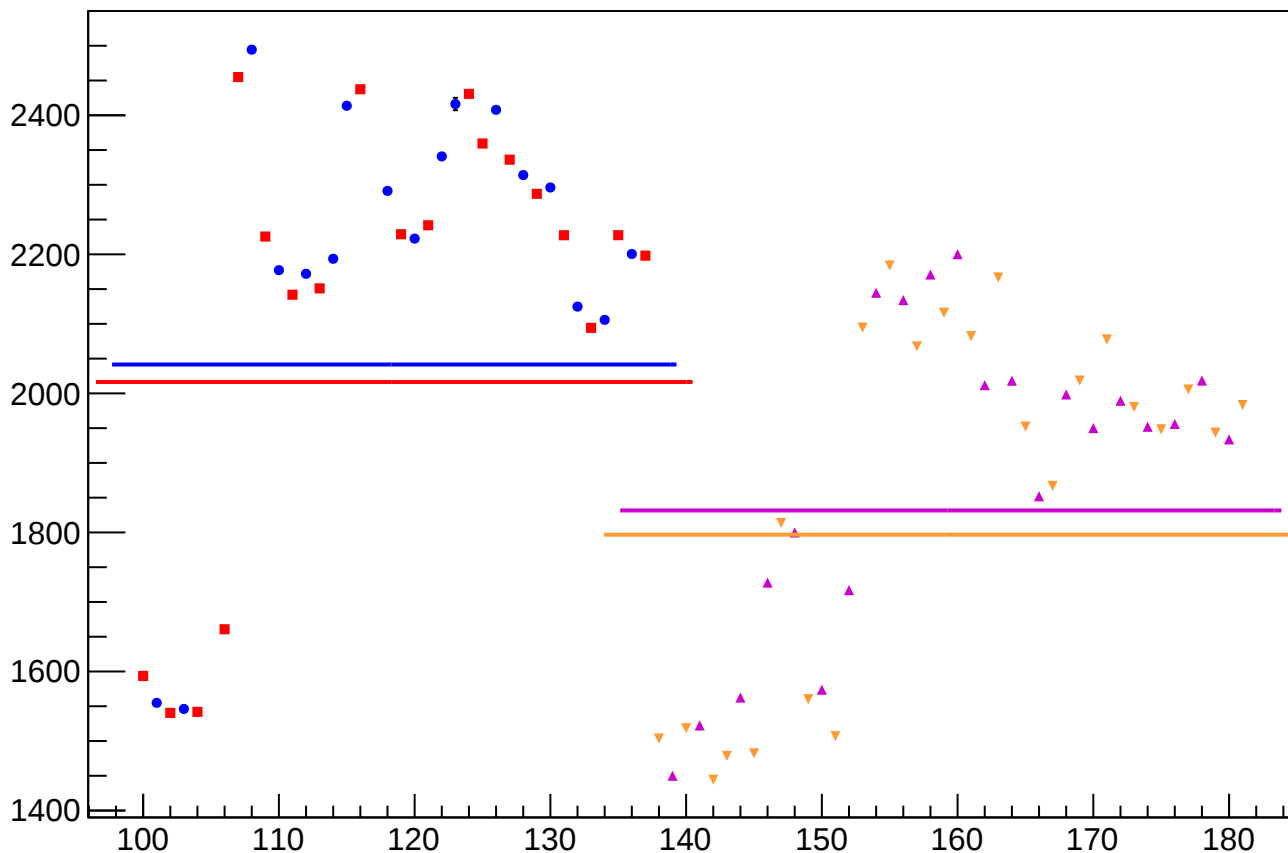
Right: 8.296 ± 0.553 χ^2/NDF : 894.8/35

In: -1.775 ± 0.397 χ^2/NDF : 880.6/37

Out: 6.411 ± 0.379 χ^2/NDF : 704.2/41

All: 2.512 ± 0.274 χ^2/NDF : 1807.4/79

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

Left Out: 1796.810 $\pm$ 0.308 χ^2 /NDF: 726803.5/22

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

Left In: 1831.620 $\pm$ 0.324 χ^2 /NDF: 504864.7/20

Left: 1813.356 $\pm$ 0.223 χ^2 /NDF: 1237736.6/43

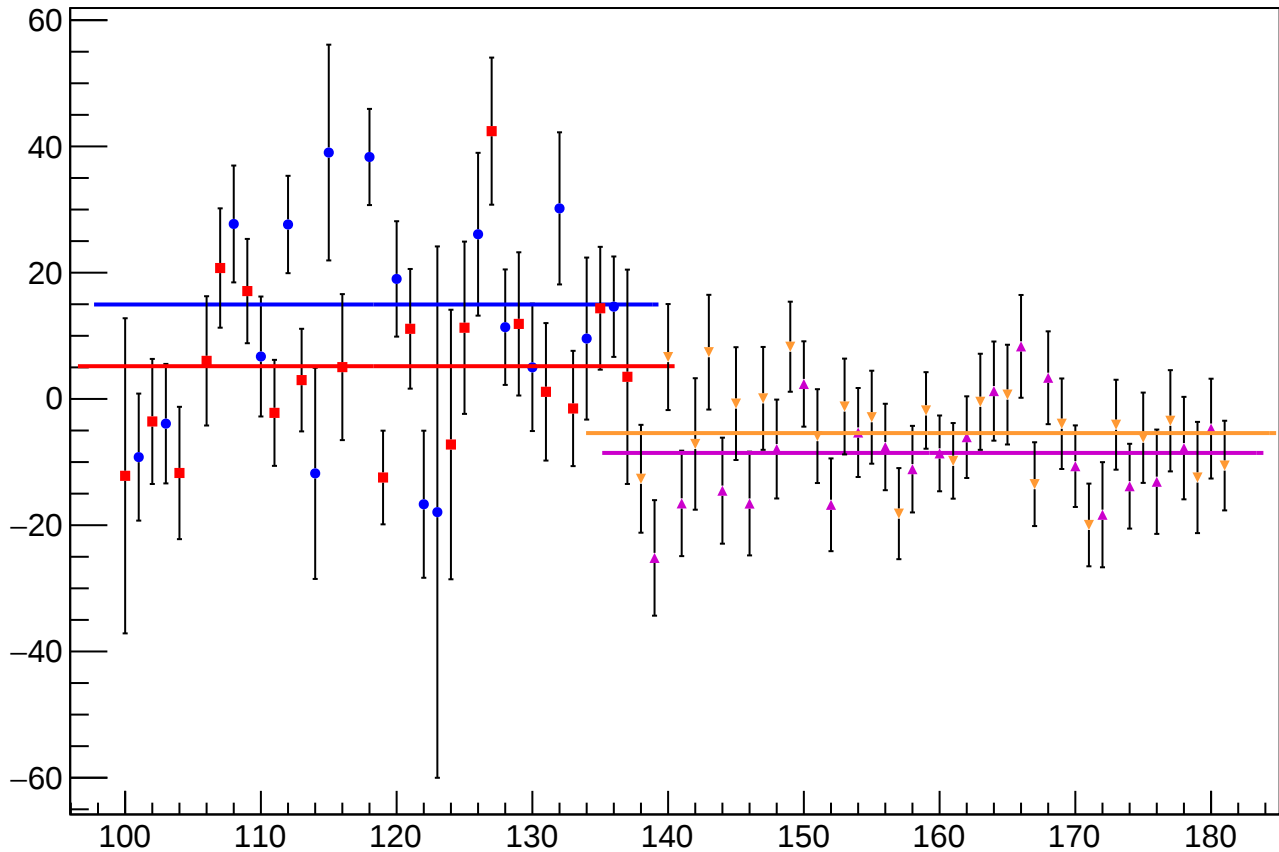
Right: 2028.464 $\pm$ 0.391 χ^2 /NDF: 732406.2/35

In: 1883.595 $\pm$ 0.281 χ^2 /NDF: 965229.3/37

Out: 1850.511 $\pm$ 0.268 χ^2 /NDF: 1226205.1/41

All: 1866.270 $\pm$ 0.194 χ^2 /NDF: 2198705.9/79

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.961 ± 2.490 $\chi^2/\text{NDF}: 40.9/16$

Left Out: -5.408 ± 1.560 $\chi^2/\text{NDF}: 22.4/22$

Right Out: 5.187 ± 2.360 $\chi^2/\text{NDF}: 28.2/18$

Left In: -8.551 ± 1.617 $\chi^2/\text{NDF}: 21.2/20$

Left: -6.923 ± 1.123 $\chi^2/\text{NDF}: 45.5/43$

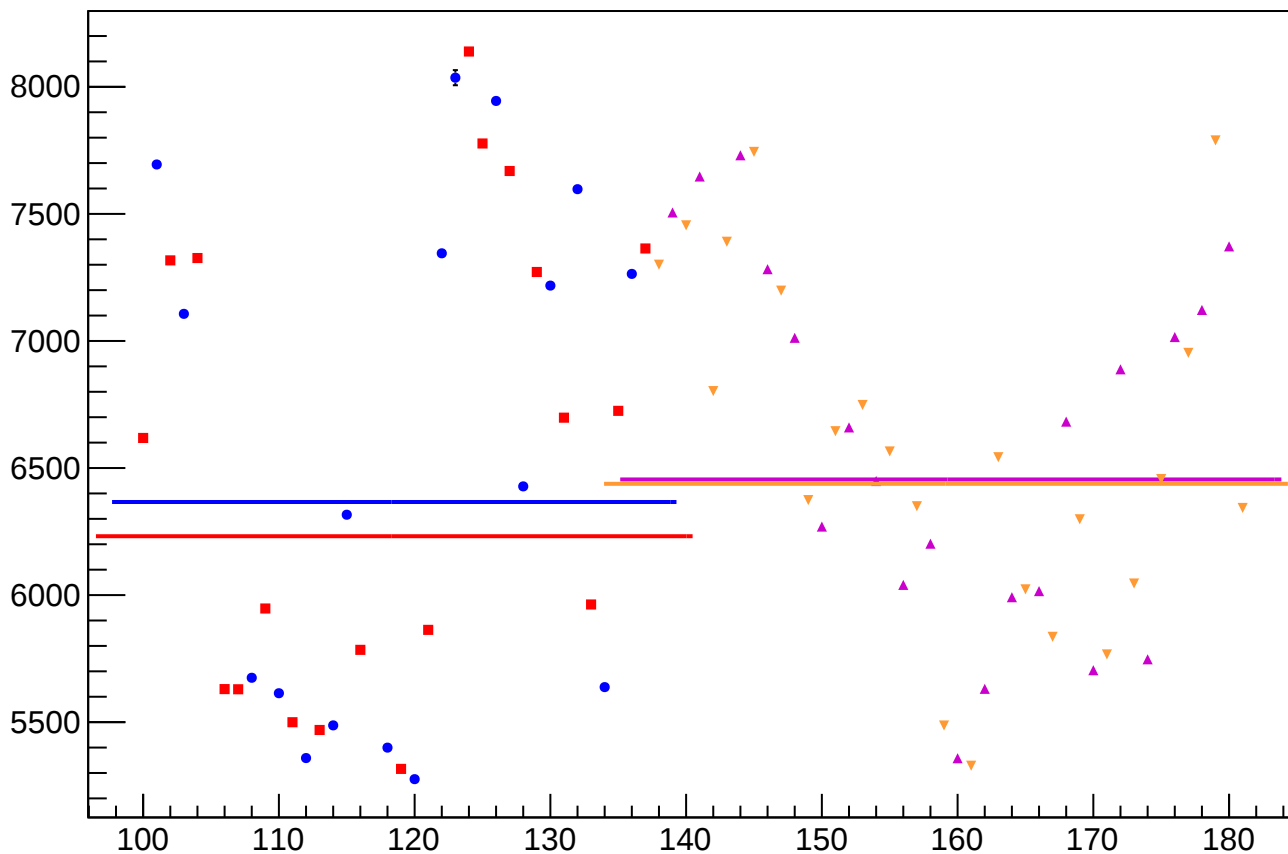
Right: 9.813 ± 1.713 $\chi^2/\text{NDF}: 77.2/35$

In: -1.576 ± 1.356 $\chi^2/\text{NDF}: 124.8/37$

Out: -2.186 ± 1.301 $\chi^2/\text{NDF}: 64.6/41$

All: -1.894 ± 0.939 $\chi^2/\text{NDF}: 189.6/79$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6366.340+/-1.760 χ^2/NDF : 285567.3/16

Left Out: 6437.907+/-1.103 χ^2/NDF : 363969.9/22

Right Out: 6231.657+/-1.669 χ^2/NDF : 241308.4/18

Left In: 6455.023+/-1.143 χ^2/NDF : 375002.1/20

Left: 6446.158+/-0.794 χ^2/NDF : 739088.1/43

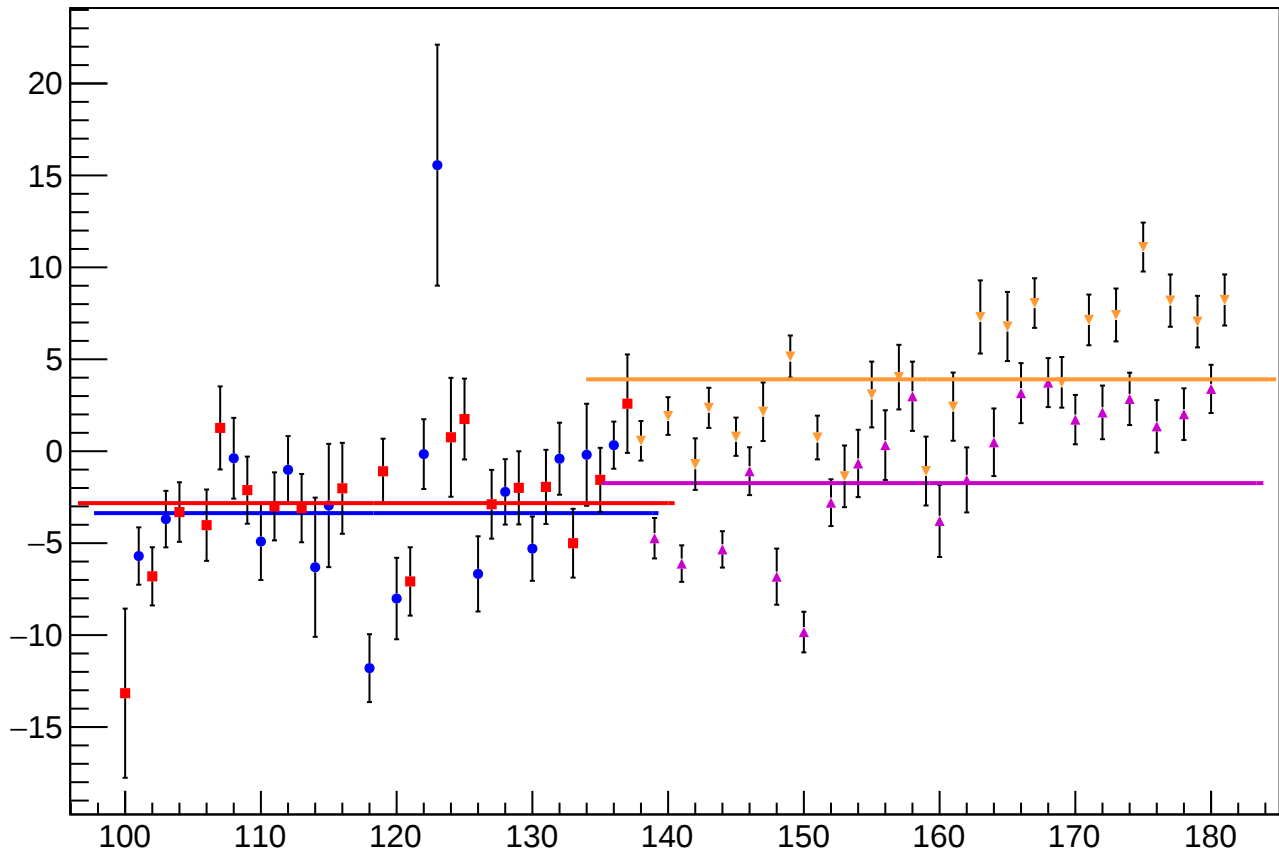
Right: 6295.395+/-1.211 χ^2/NDF : 529958.8/35

In: 6428.715+/-0.959 χ^2/NDF : 662354.3/37

Out: 6375.189+/-0.920 χ^2/NDF : 615910.2/41

All: 6400.851+/-0.664 χ^2/NDF : 1279886.9/79

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

Left Out: 3.911 $\pm$ 0.286 χ^2/NDF :141.7/22

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

Left In: -1.734 $\pm$ 0.300 χ^2/NDF :193.2/20

Left: 1.226 $\pm$ 0.207 χ^2/NDF : 520.3/43

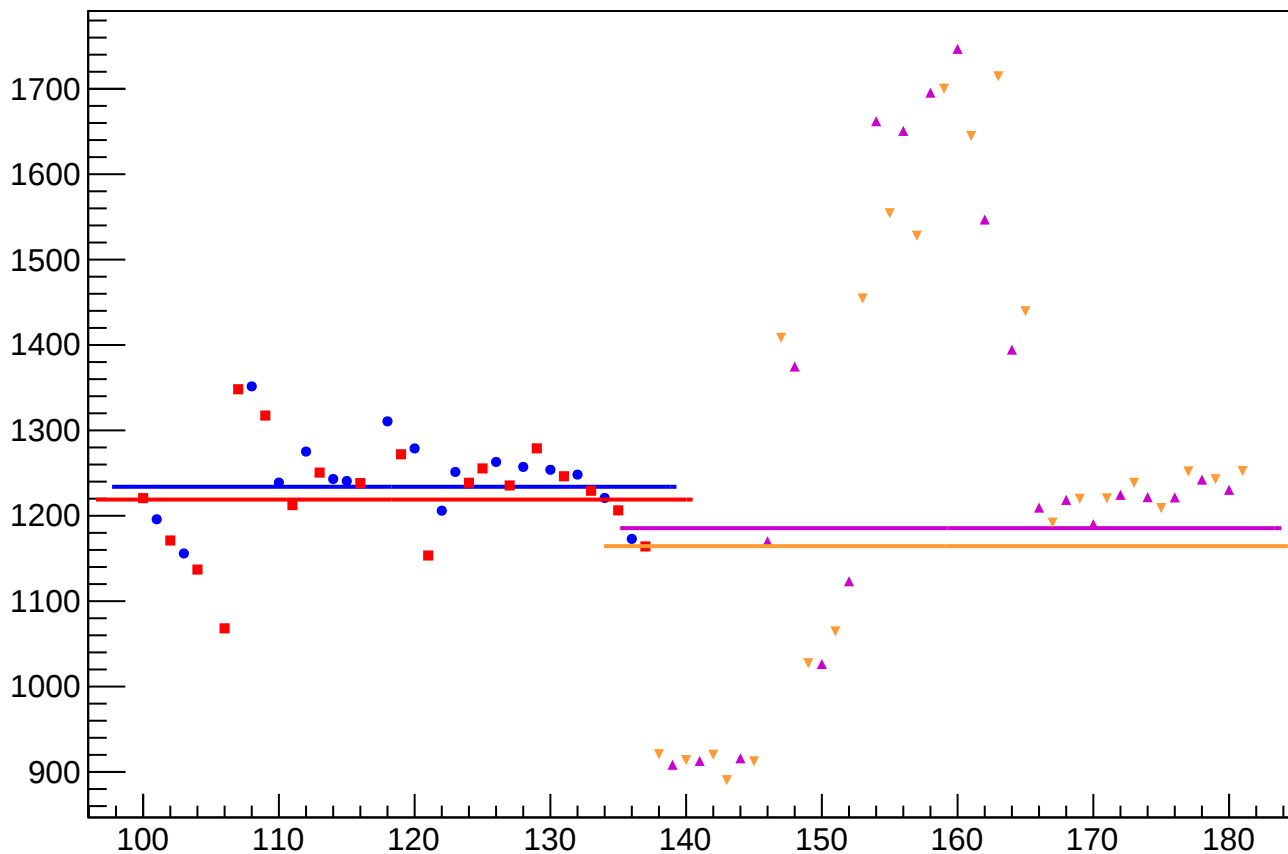
Right: -3.084 $\pm$ 0.330 χ^2/NDF : 93.8/35

In: -2.198 $\pm$ 0.254 χ^2/NDF :261.2/37

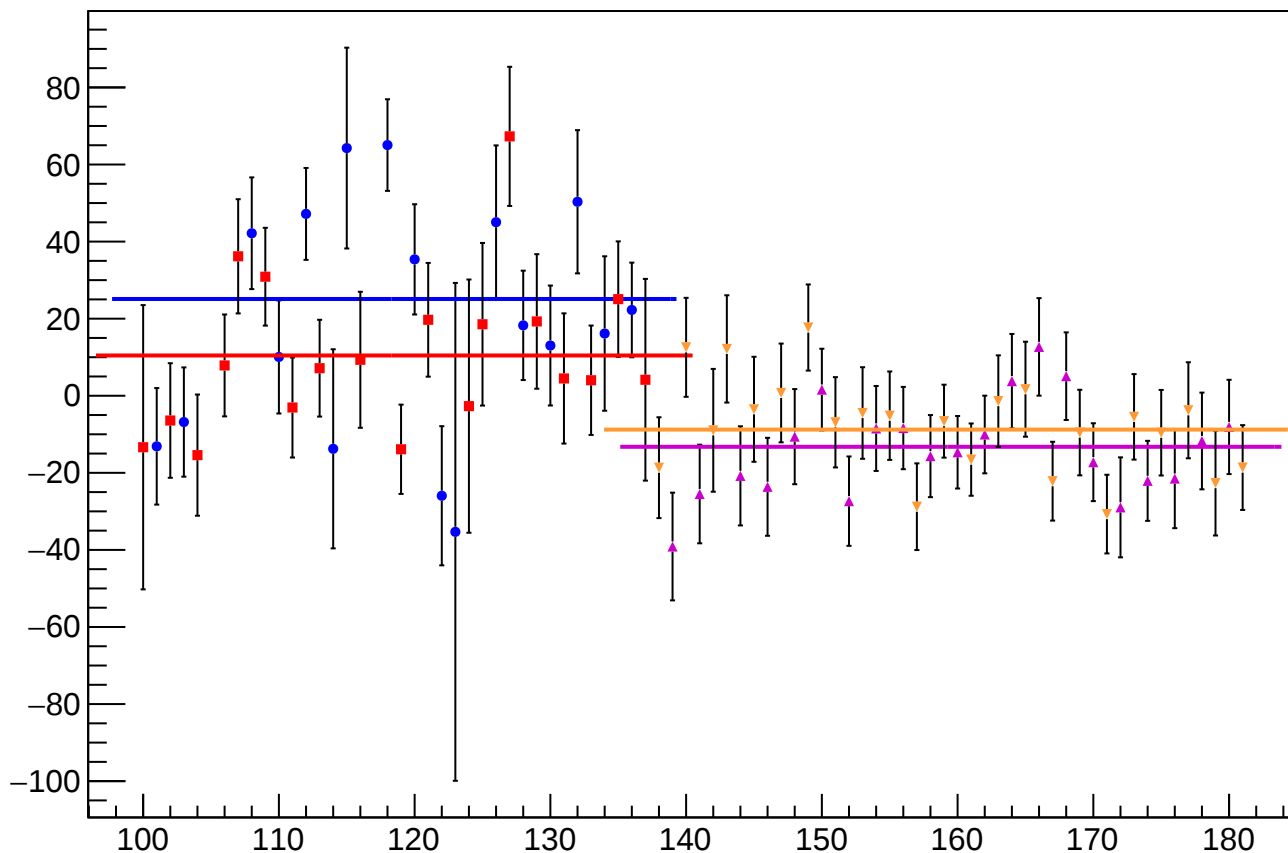
Out: 2.017 $\pm$ 0.242 χ^2/NDF :331.2/41

All: 0.008 $\pm$ 0.175 χ^2/NDF : 736.5/79

diff_bpm0l06Y_rms vs Slug, Sign Corrected



diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 25.108 ± 3.844 $\chi^2/\text{NDF}: 46.5/16$

Left Out: -8.785 ± 2.424 $\chi^2/\text{NDF}: 25.6/22$

Right Out: 10.450 ± 3.598 $\chi^2/\text{NDF}: 27.8/18$

Left In: -13.245 ± 2.515 $\chi^2/\text{NDF}: 21.1/20$

Left: -10.932 ± 1.745 $\chi^2/\text{NDF}: 48.3/43$

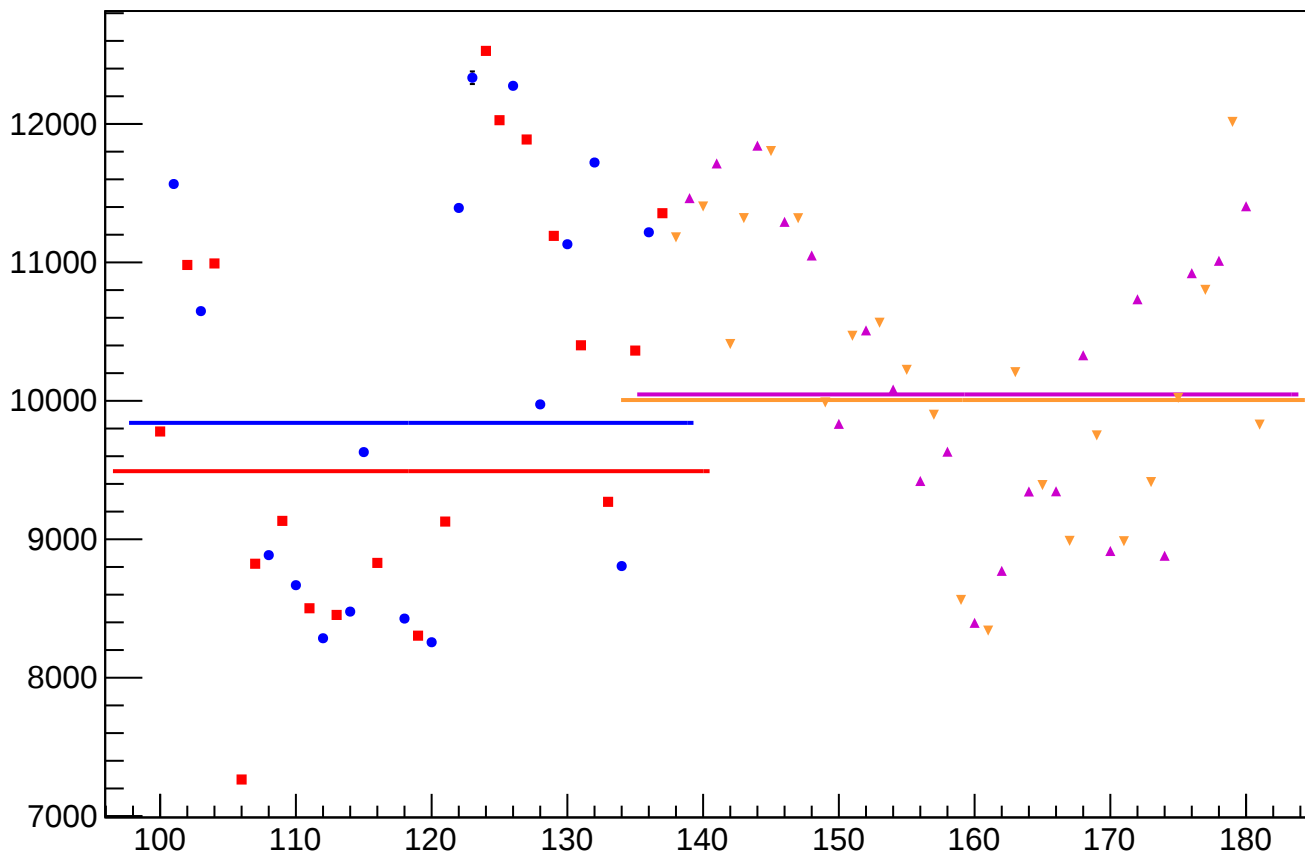
Right: 17.296 ± 2.627 $\chi^2/\text{NDF}: 82.1/35$

In: -1.747 ± 2.105 $\chi^2/\text{NDF}: 137.3/37$

Out: -2.782 ± 2.010 $\chi^2/\text{NDF}: 73.1/41$

All: -2.288 ± 1.454 $\chi^2/\text{NDF}: 210.5/79$

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

Left Out: 10005.843 $\pm$ 1.714 χ^2/NDF : 337423.4/22

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

Left In: 10046.358 $\pm$ 1.779 χ^2/NDF : 349073.3/20

Left: 10025.350 $\pm$ 1.234 χ^2/NDF : 686765.9/43

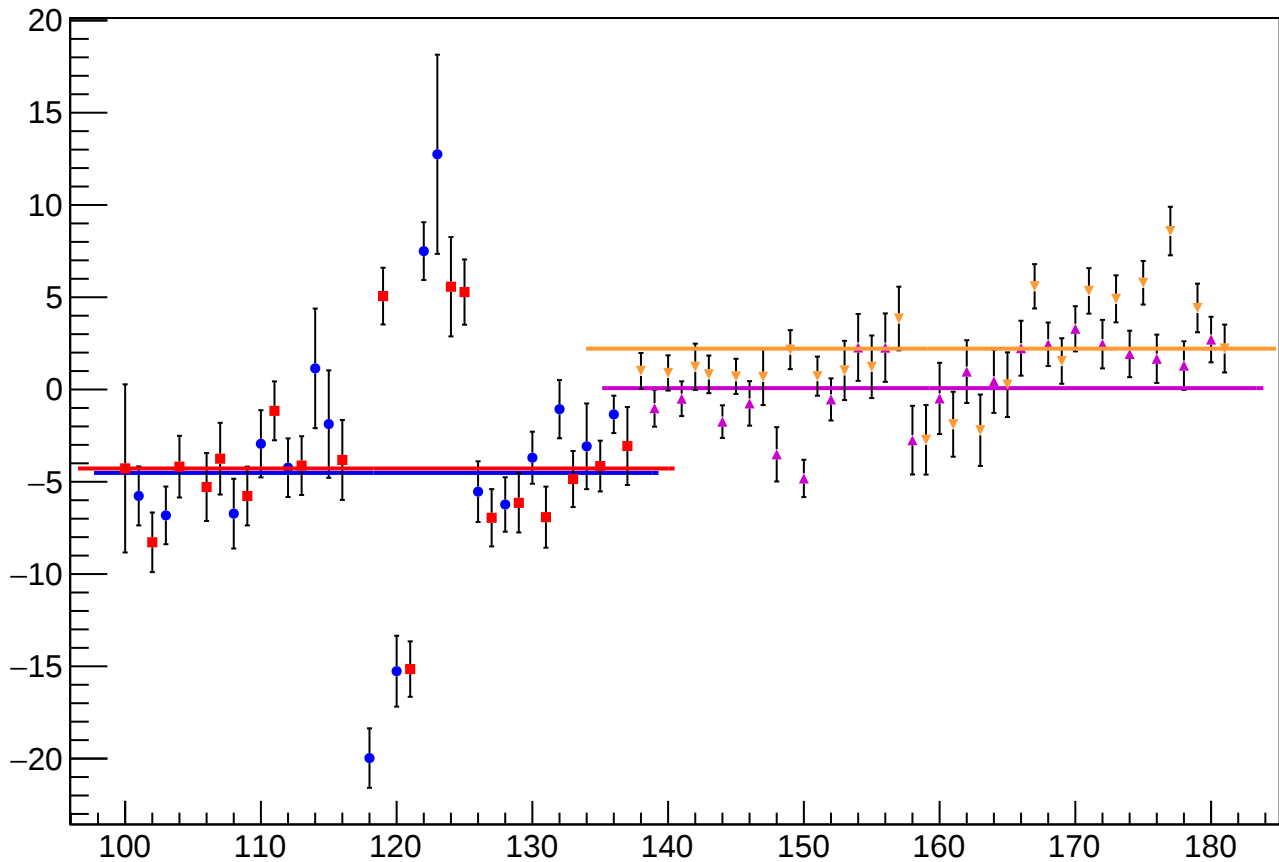
Right: 9654.969 $\pm$ 1.858 χ^2/NDF : 542472.7/35

In: 9984.785 $\pm$ 1.488 χ^2/NDF : 612178.2/37

Out: 9845.472 $\pm$ 1.421 χ^2/NDF : 640060.7/41

All: 9911.931 $\pm$ 1.028 χ^2/NDF : 1256821.2/79

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.520 ± 0.409 χ^2/NDF : 218.2/16

Left Out: 2.214 ± 0.263 χ^2/NDF : 86.4/22

Right Out: -4.279 ± 0.395 χ^2/NDF : 150.4/18

Left In: 0.074 ± 0.277 χ^2/NDF : 66.9/20

Left: 1.199 ± 0.191 χ^2/NDF : 184.7/43

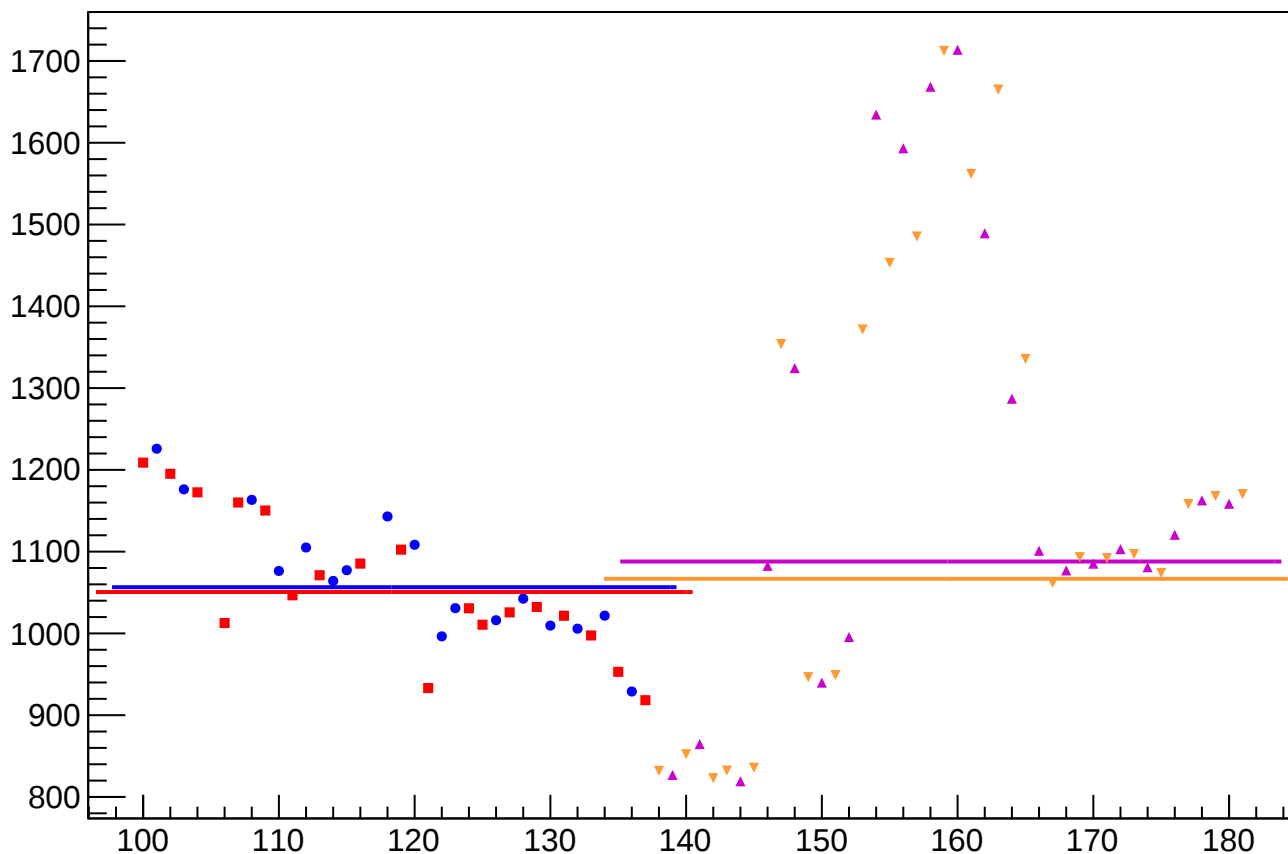
Right: -4.395 ± 0.284 χ^2/NDF : 368.8/35

In: -1.373 ± 0.229 χ^2/NDF : 371.6/37

Out: 0.214 ± 0.219 χ^2/NDF : 424.2/41

All: -0.542 ± 0.158 χ^2/NDF : 820.8/79

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1056.494 $\pm$ 0.289 χ^2 /NDF: 90759.5/16

Left Out: 1066.770 $\pm$ 0.186 χ^2 /NDF:1600120.9/22

Right Out: 1050.578 $\pm$ 0.279 χ^2 /NDF: 82328.7/18

Left In: 1087.917 $\pm$ 0.196 χ^2 /NDF:1429513.4/20

Left: 1076.796 $\pm$ 0.135 χ^2 /NDF: 3035752.3/43

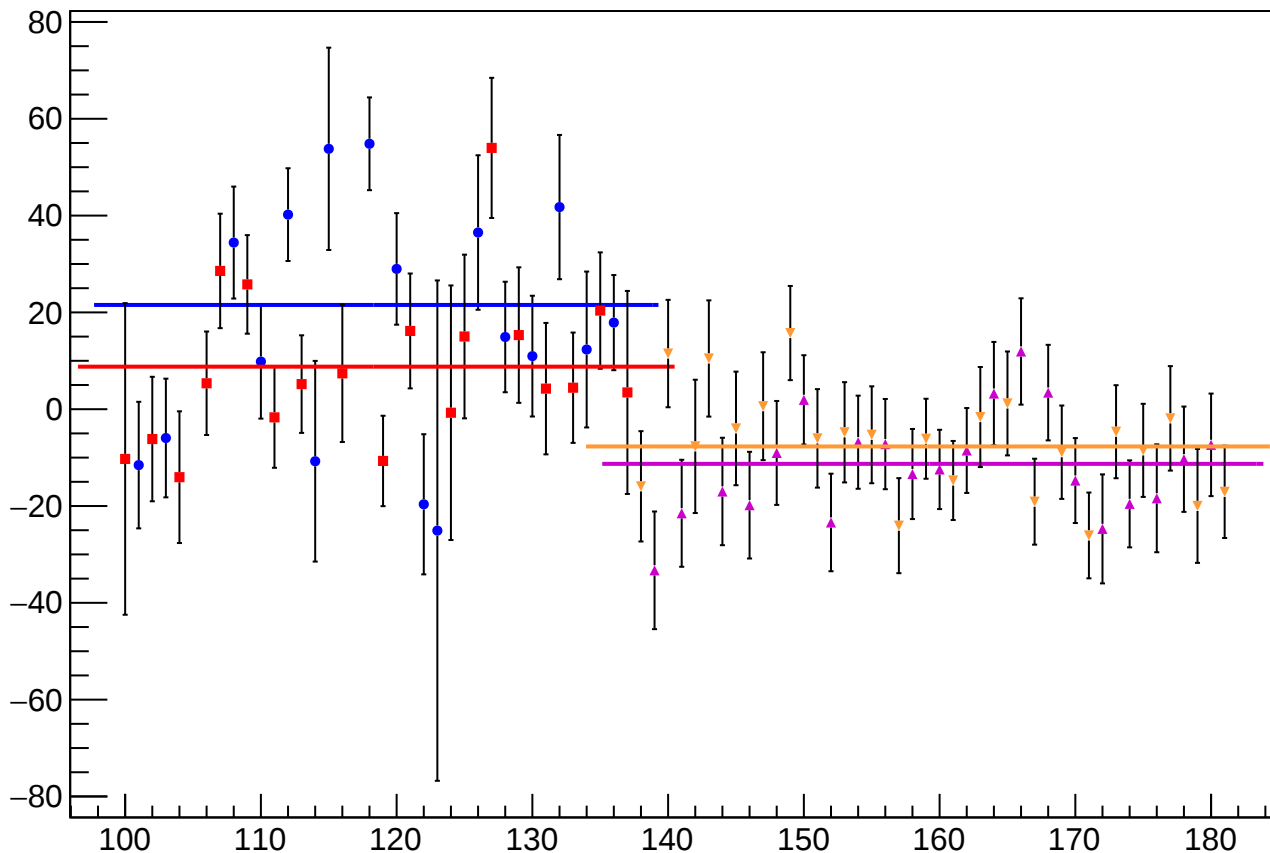
Right: 1053.431 $\pm$ 0.201 χ^2 /NDF: 173304.9/35

In: 1078.020 $\pm$ 0.162 χ^2 /NDF:1528363.8/37

Out: 1061.783 $\pm$ 0.155 χ^2 /NDF:1684779.8/41

All: 1069.522 $\pm$ 0.112 χ^2 /NDF: 3218383.6/79

diff_bpm0l08X_mean vs Slug, Sign Corrected



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

Left Out: -7.694 ± 2.106 $\chi^2/\text{NDF}: 25.4/22$

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

Left In: -11.288 ± 2.186 $\chi^2/\text{NDF}: 20.6/20$

Left: -9.424 ± 1.516 $\chi^2/\text{NDF}: 47.5/43$

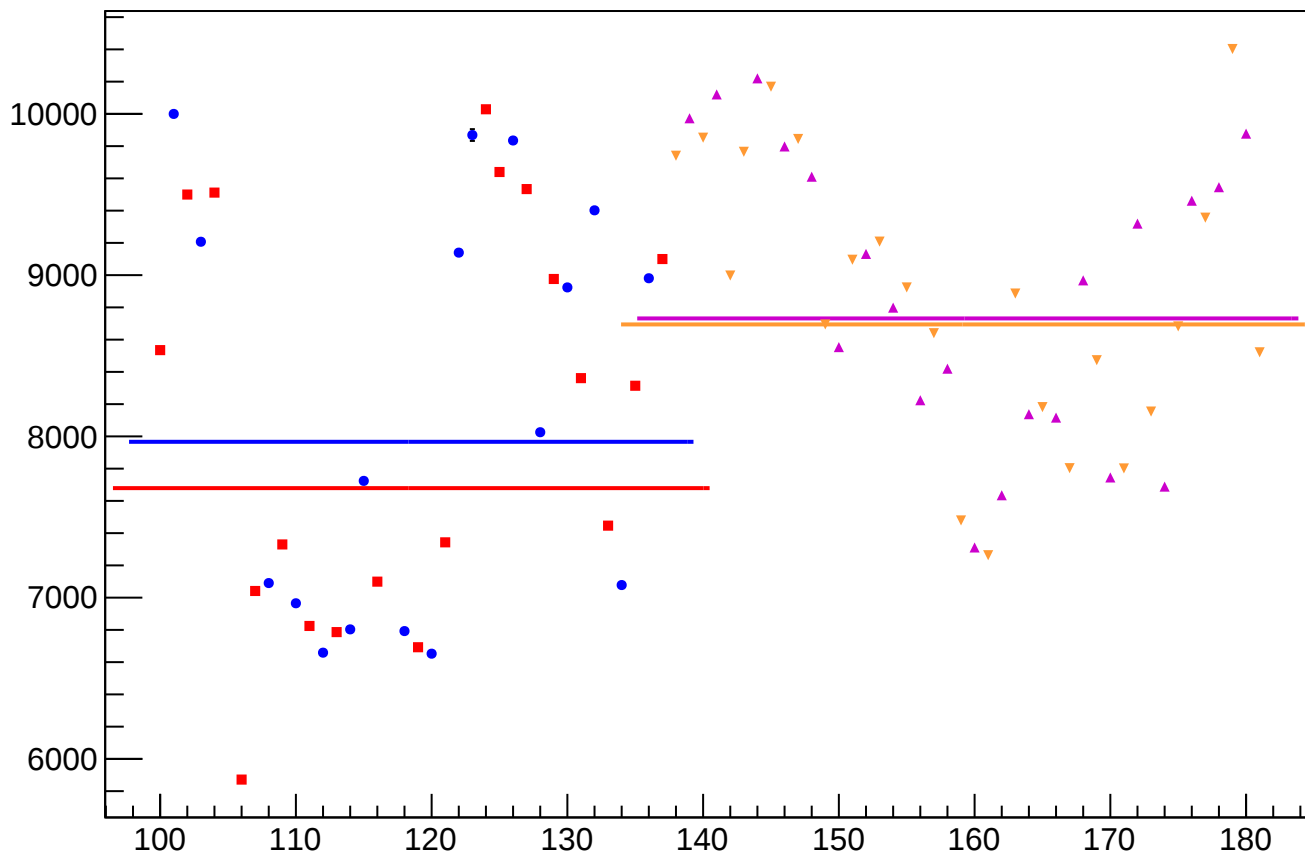
Right: 14.742 ± 2.129 $\chi^2/\text{NDF}: 84.4/35$

In: -0.463 ± 1.789 $\chi^2/\text{NDF}: 142.9/37$

Out: -2.041 ± 1.707 $\chi^2/\text{NDF}: 74.0/41$

All: -1.289 ± 1.235 $\chi^2/\text{NDF}: 217.4/79$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7966.450 ± 2.203 $\chi^2/\text{NDF}: 295660.2/16$

Left Out: 8694.336 ± 1.489 $\chi^2/\text{NDF}: 325695.7/22$

Right Out: 7679.131 ± 2.061 $\chi^2/\text{NDF}: 313051.7/18$

Left In: 8731.489 ± 1.545 $\chi^2/\text{NDF}: 338595.9/20$

Left: 8712.220 ± 1.072 $\chi^2/\text{NDF}: 664591.4/43$

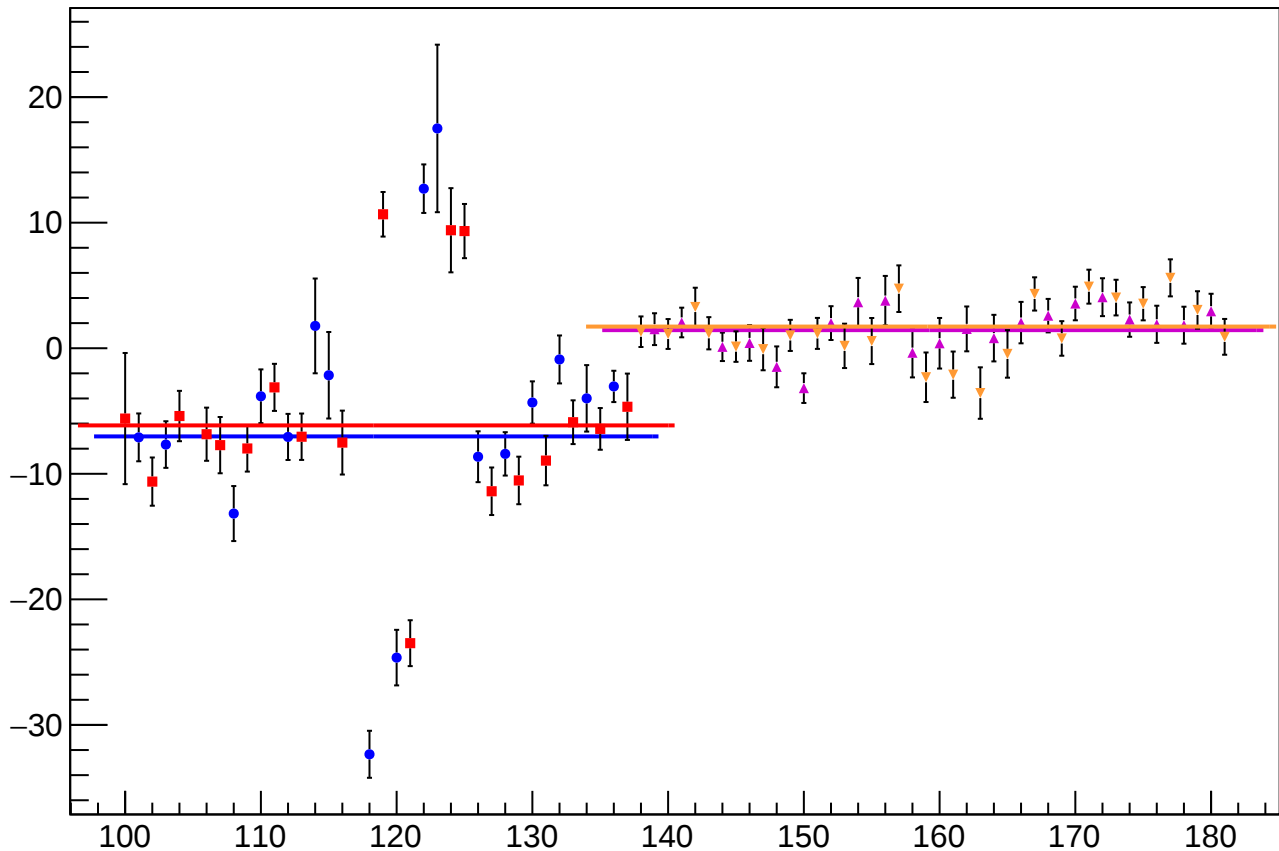
Right: 7813.225 ± 1.505 $\chi^2/\text{NDF}: 617781.0/35$

In: 8479.218 ± 1.265 $\chi^2/\text{NDF}: 715067.8/37$

Out: 8346.239 ± 1.207 $\chi^2/\text{NDF}: 798165.8/41$

All: 8409.596 ± 0.873 $\chi^2/\text{NDF}: 1519017.5/79$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.022 ± 0.487 χ^2/NDF : 407.3/16

Left Out: 1.725 ± 0.304 χ^2/NDF : 47.7/22

Right Out: -6.146 ± 0.467 χ^2/NDF : 278.4/18

Left In: 1.441 ± 0.320 χ^2/NDF : 33.0/20

Left: 1.590 ± 0.220 χ^2/NDF : 81.1/43

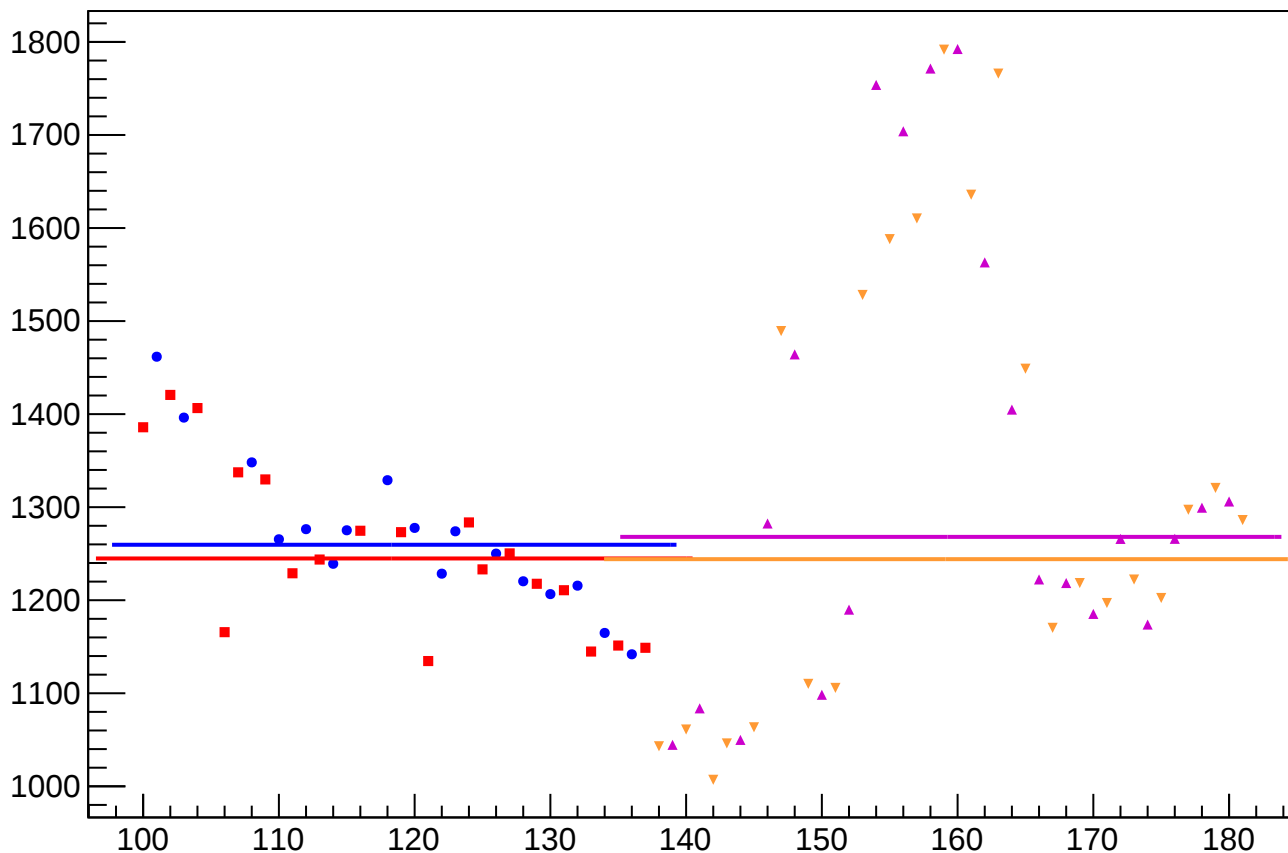
Right: -6.566 ± 0.337 χ^2/NDF : 687.3/35

In: -1.106 ± 0.267 χ^2/NDF : 651.3/37

Out: -0.611 ± 0.255 χ^2/NDF : 525.5/41

All: -0.846 ± 0.184 χ^2/NDF : 1178.6/79

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

Left Out: 1244.126 $\pm$ 0.215 χ^2/NDF : 951596.5/22

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

Left In: 1268.075 $\pm$ 0.226 χ^2/NDF : 842109.7/20

Left: 1255.489 $\pm$ 0.156 χ^2/NDF : 1799608.7/43

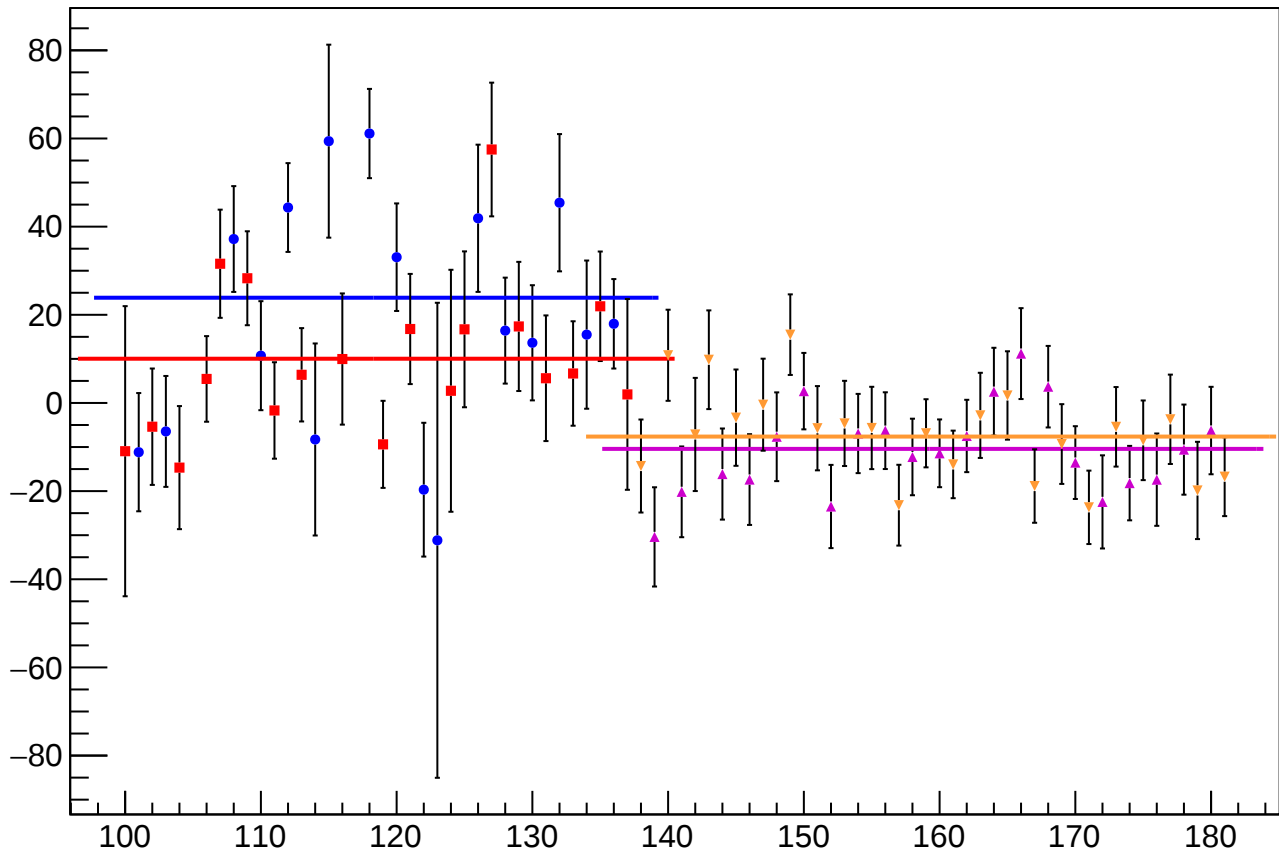
Right: 1251.936 $\pm$ 0.238 χ^2/NDF : 132588.1/35

In: 1265.525 $\pm$ 0.189 χ^2/NDF : 907349.6/37

Out: 1244.348 $\pm$ 0.180 χ^2/NDF : 1018419.5/41

All: 1254.427 $\pm$ 0.130 χ^2/NDF : 1932352.6/79

diff_bpm0l09X_mean vs Slug, Sign Corrected



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

Left Out: -7.626 ± 1.971 $\chi^2/\text{NDF}: 25.9/22$

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

Left In: -10.420 ± 2.046 $\chi^2/\text{NDF}: 21.0/20$

Left: -8.971 ± 1.420 $\chi^2/\text{NDF}: 47.9/43$

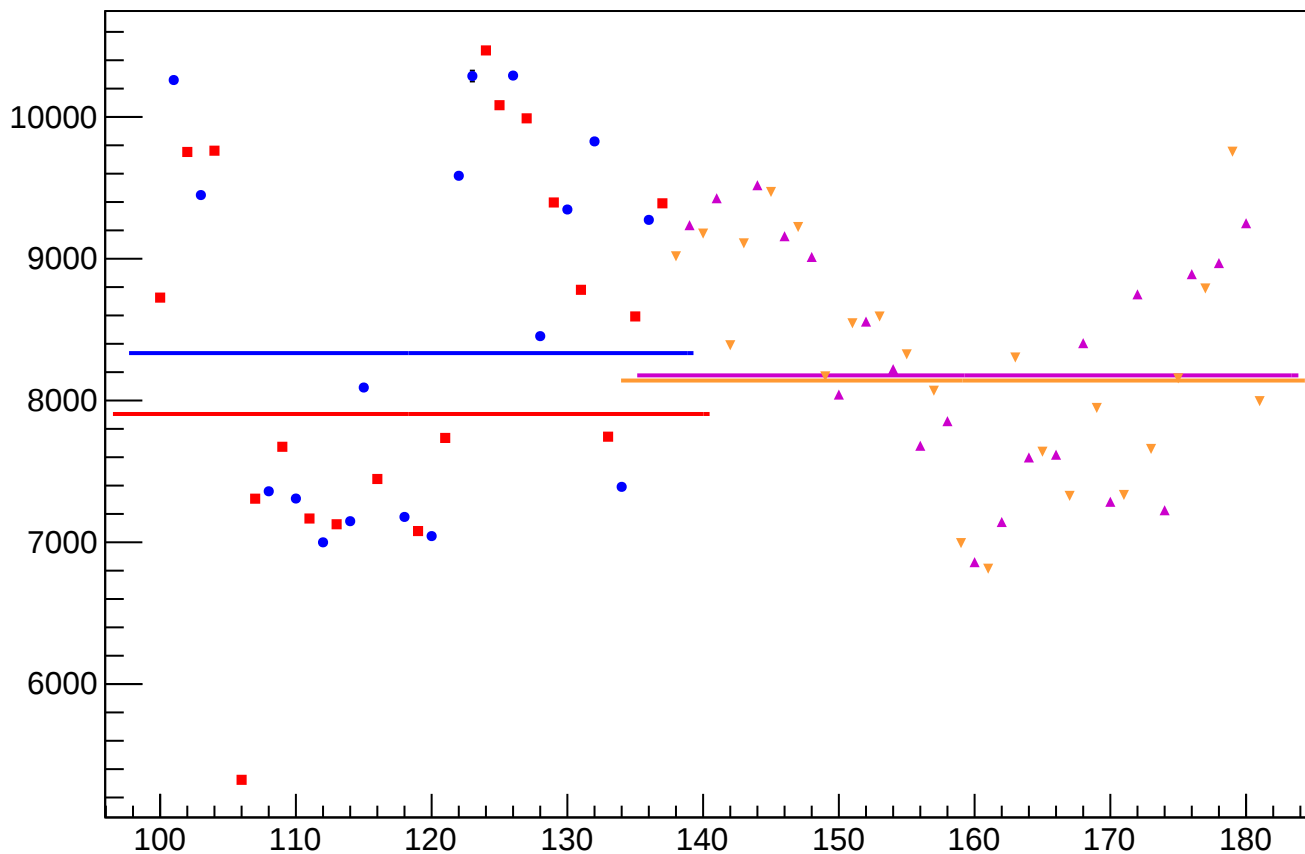
Right: 16.410 ± 2.210 $\chi^2/\text{NDF}: 89.8/35$

In: -0.710 ± 1.733 $\chi^2/\text{NDF}: 152.5/37$

Out: -2.322 ± 1.649 $\chi^2/\text{NDF}: 78.1/41$

All: -1.556 ± 1.194 $\chi^2/\text{NDF}: 231.1/79$

diff_bpm0l09X_rms vs Slug, Sign Corrected



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

Left Out: 8140.942 $\pm$ 1.394 χ^2 /NDF: 315252.4/22

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

Left In: 8177.247 $\pm$ 1.447 χ^2 /NDF: 329513.3/20

Left: 8158.415 $\pm$ 1.004 χ^2 /NDF: 645092.3/43

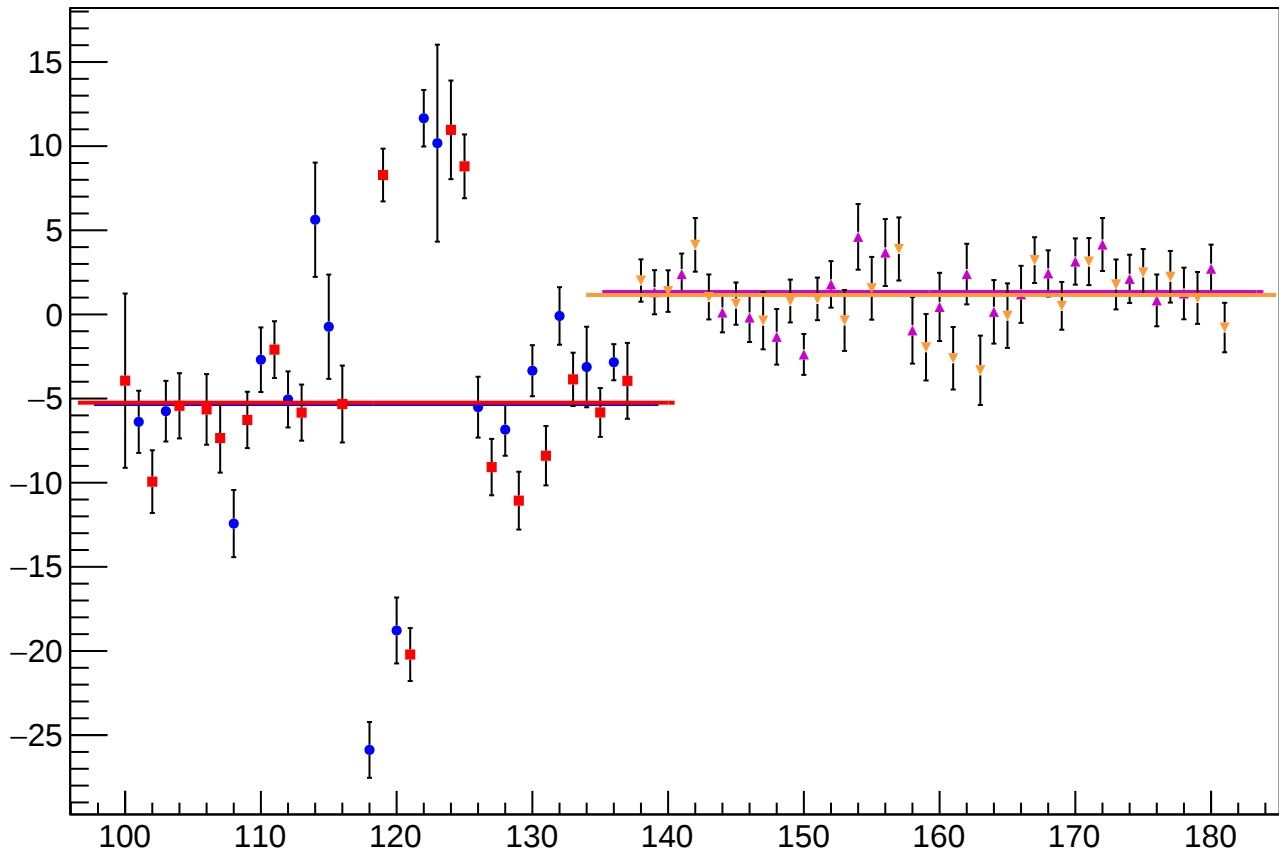
Right: 8102.760 $\pm$ 1.563 χ^2 /NDF: 678729.4/35

In: 8221.748 $\pm$ 1.225 χ^2 /NDF: 604220.5/37

Out: 8070.079 $\pm$ 1.166 χ^2 /NDF: 712456.5/41

All: 8142.156 $\pm$ 0.845 χ^2 /NDF: 1324719.6/79

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.325 $\pm$ 0.438 χ^2/NDF : 355.9/16

Left Out: 1.158 $\pm$ 0.313 χ^2/NDF :27.5/22

Right Out: -5.245 $\pm$ 0.422 χ^2/NDF : 283.1/18

Left In: 1.329 $\pm$ 0.329 χ^2/NDF :28.3/20

Left: 1.239 $\pm$ 0.227 χ^2/NDF : 56.0/43

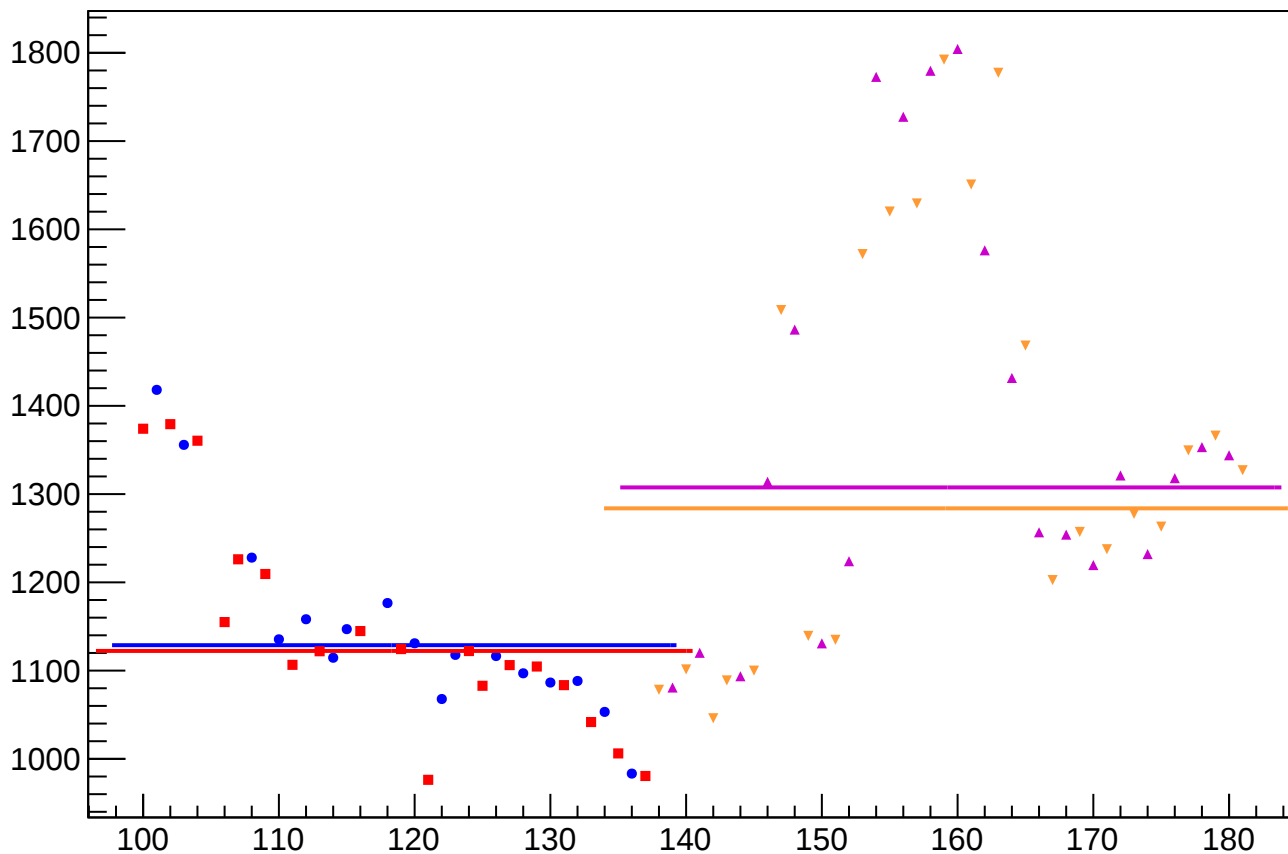
Right: -5.283 $\pm$ 0.304 χ^2/NDF : 639.0/35

In: -1.073 $\pm$ 0.263 χ^2/NDF :531.9/37

Out: -1.110 $\pm$ 0.251 χ^2/NDF :459.0/41

All: -1.092 $\pm$ 0.182 χ^2/NDF : 990.9/79

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

Left Out: 1283.851 $\pm$ 0.221 χ^2 /NDF:864665.0/22

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

Left In: 1307.559 $\pm$ 0.233 χ^2 /NDF:757854.9/20

Left: 1295.110 $\pm$ 0.160 χ^2 /NDF: 1627976.4/43

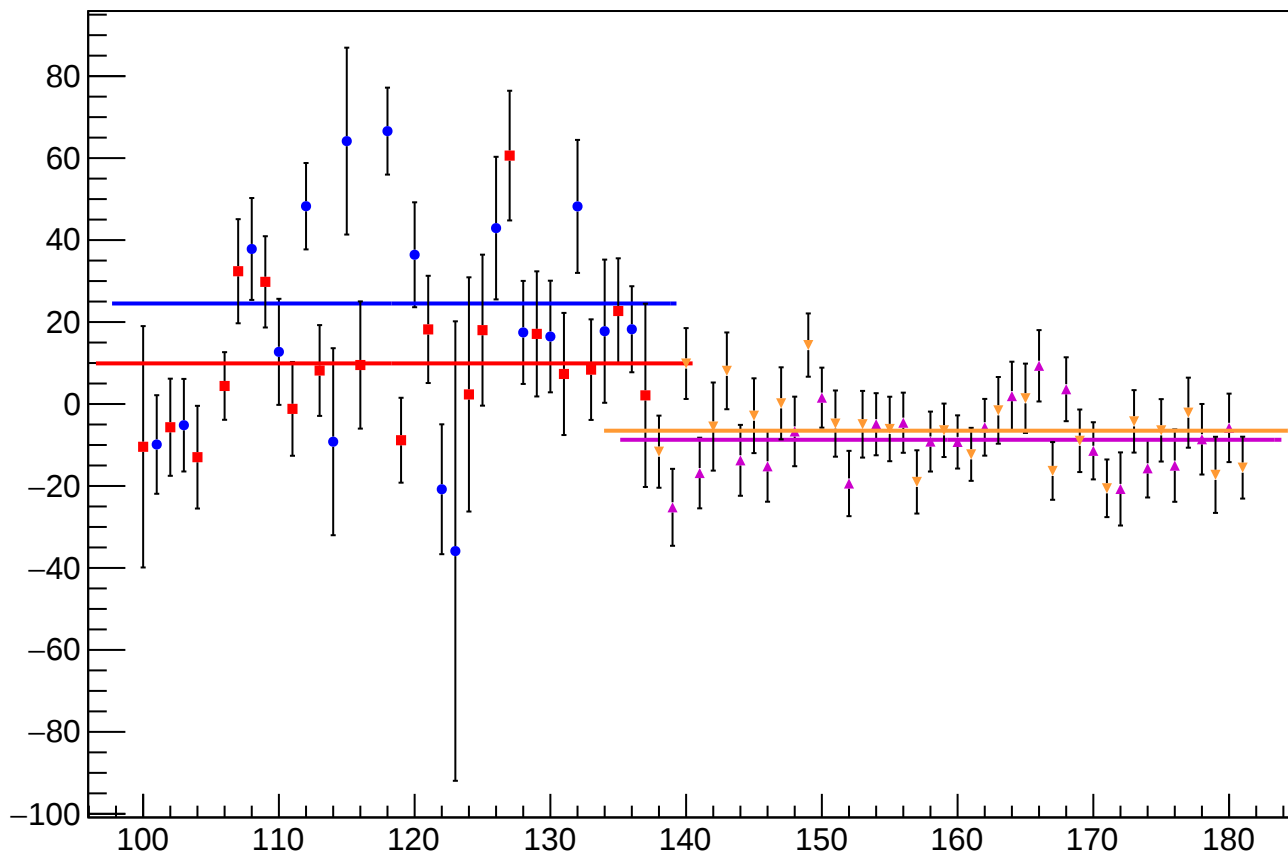
Right: 1125.436 $\pm$ 0.215 χ^2 /NDF: 262911.2/35

In: 1243.034 $\pm$ 0.186 χ^2 /NDF:1104178.8/37

Out: 1226.639 $\pm$ 0.178 χ^2 /NDF:1183220.9/41

All: 1234.468 $\pm$ 0.128 χ^2 /NDF: 2291462.7/79

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

Left Out: -6.511 ± 1.660 $\chi^2/\text{NDF}: 28.3/22$

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

Left In: -8.729 ± 1.724 $\chi^2/\text{NDF}: 21.4/20$

Left: -7.578 ± 1.196 $\chi^2/\text{NDF}: 50.6/43$

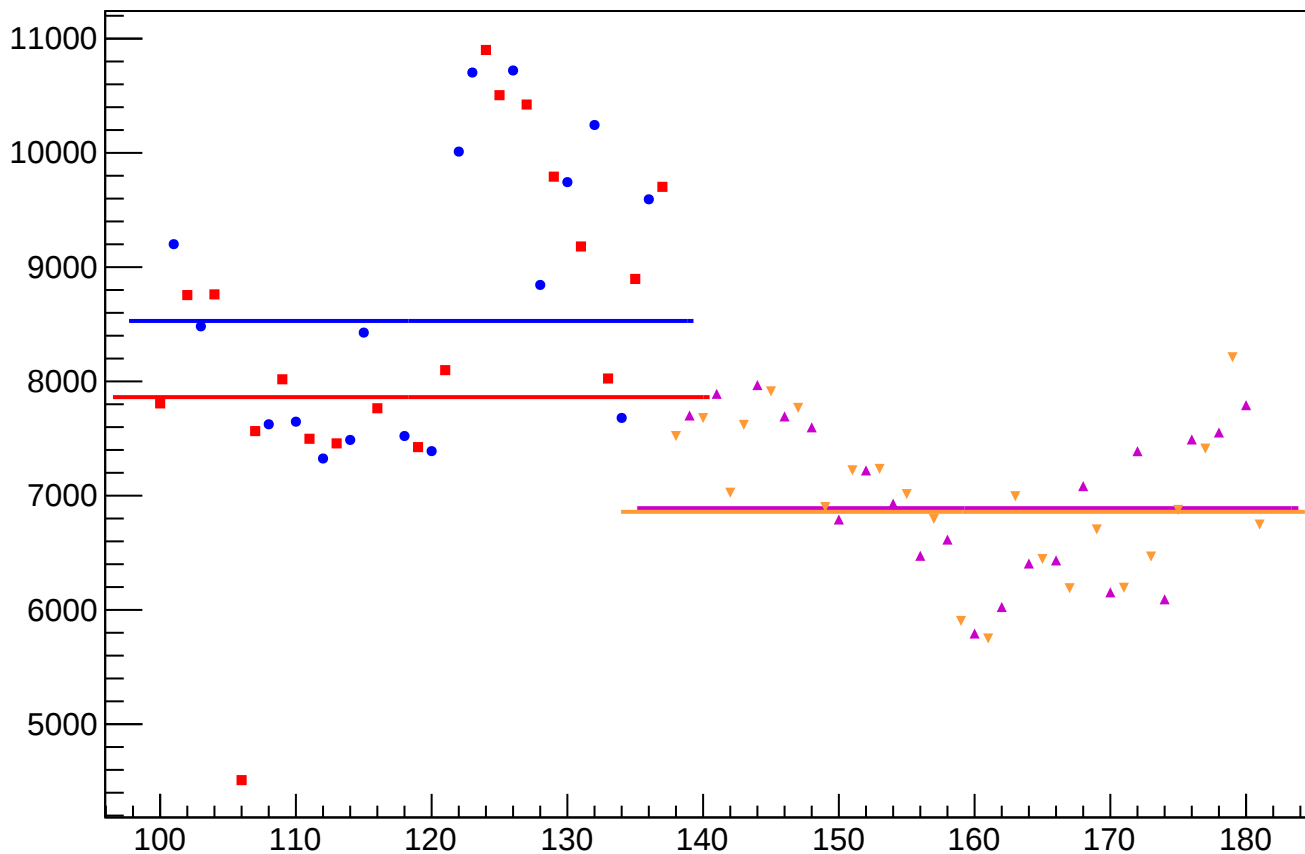
Right: 16.498 ± 2.231 $\chi^2/\text{NDF}: 97.2/35$

In: -1.680 ± 1.530 $\chi^2/\text{NDF}: 158.0/37$

Out: -2.682 ± 1.454 $\chi^2/\text{NDF}: 80.0/41$

All: -2.207 ± 1.054 $\chi^2/\text{NDF}: 238.3/79$

diff_bpm0l10X_rms vs Slug, Sign Corrected



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

Left Out: 6858.724 ± 1.174 χ^2/NDF : 300676.0/22

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

Left In: 6890.496 ± 1.219 χ^2/NDF : 317137.0/20

Left: 6874.012 ± 0.846 χ^2/NDF : 618165.4/43

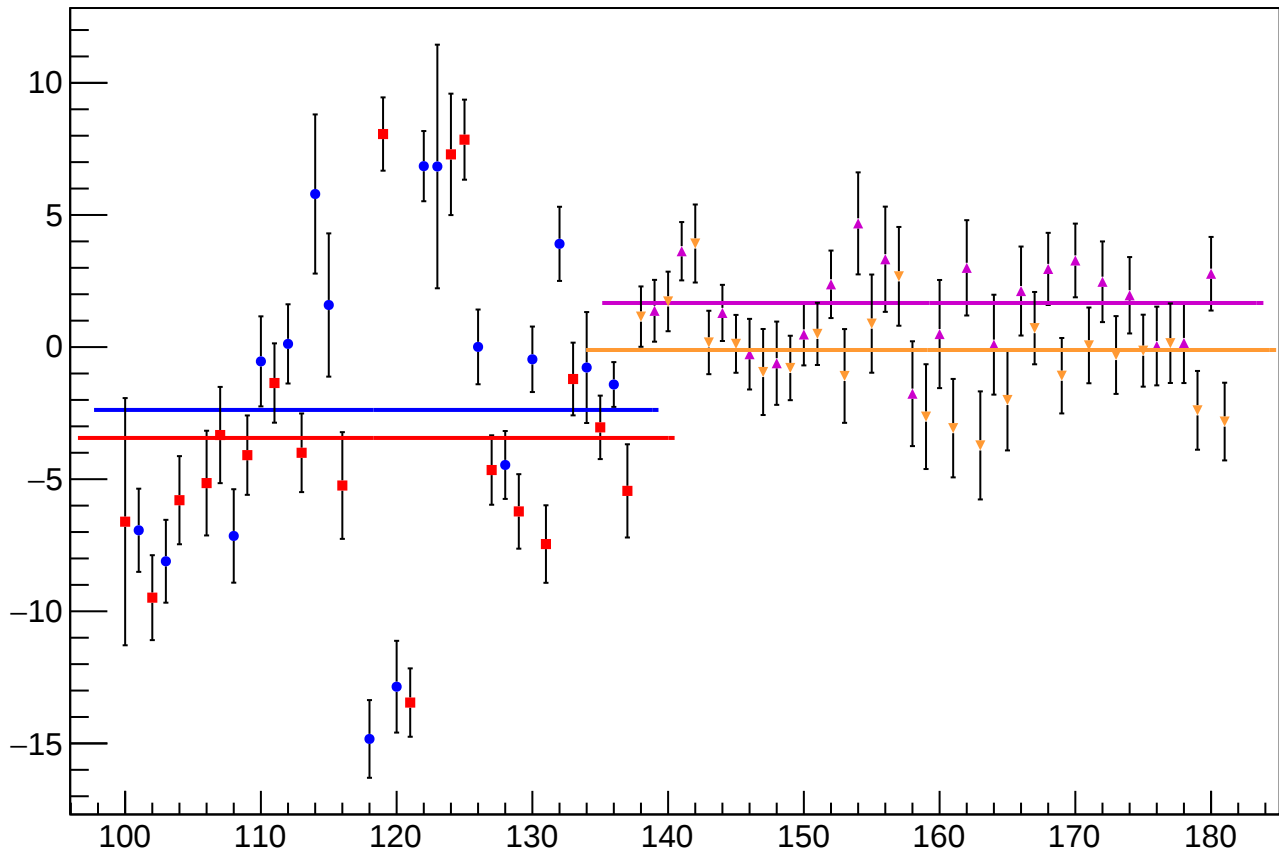
Right: 8162.886 ± 1.578 χ^2/NDF : 804422.1/35

In: 7237.811 ± 1.082 χ^2/NDF : 907578.0/37

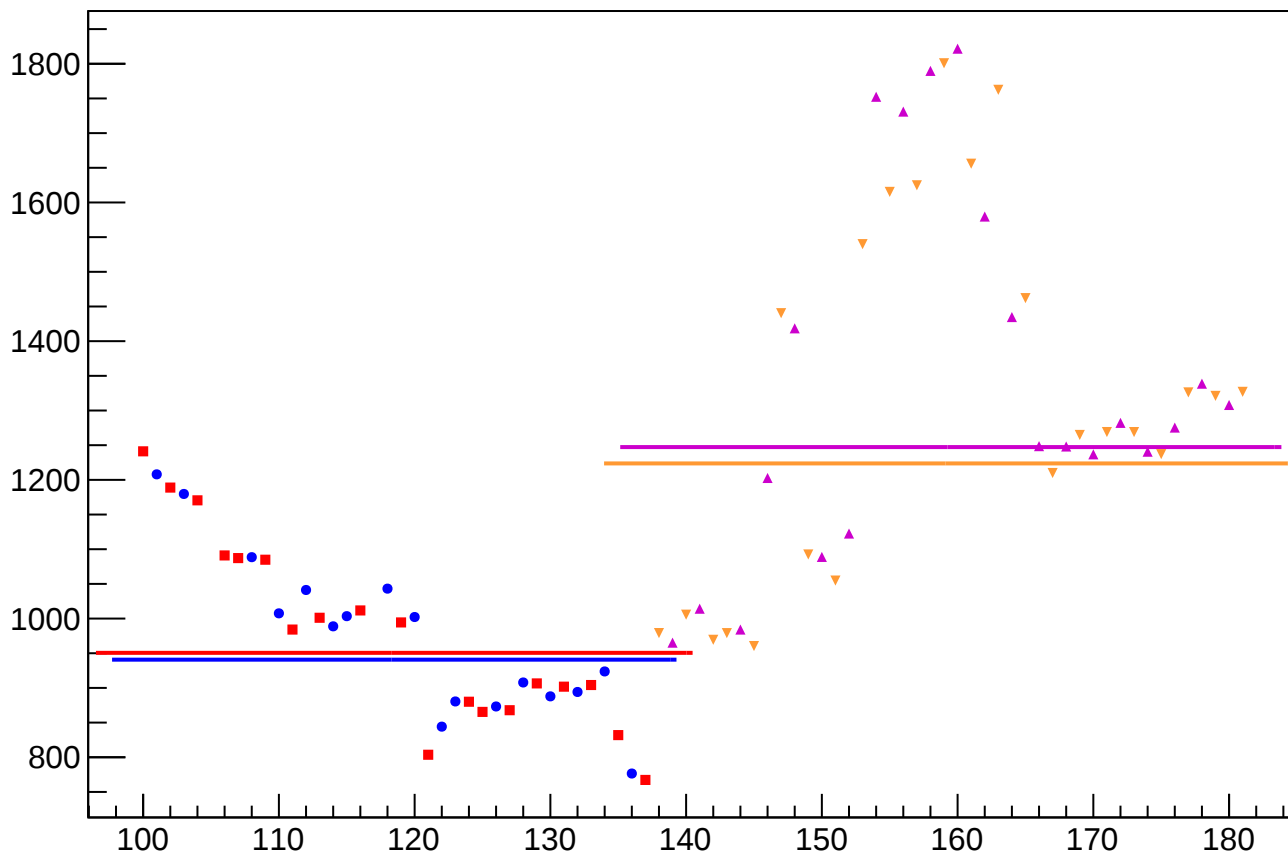
Out: 7092.792 ± 1.028 χ^2/NDF : 1023979.6/41

All: 7161.586 ± 0.745 χ^2/NDF : 1940998.5/79

diff_bpm0l10Y_mean vs Slug, Sign Corrected



diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 940.732 ± 0.259 χ^2/NDF : 241704.7/16

Left Out: 1223.705 ± 0.212 χ^2/NDF : 1249457.7/22

Right Out: 950.573 ± 0.254 χ^2/NDF : 220343.0/18

Left In: 1247.281 ± 0.223 χ^2/NDF : 1072198.0/20

Left: 1234.896 ± 0.154 χ^2/NDF : 2327526.4/43

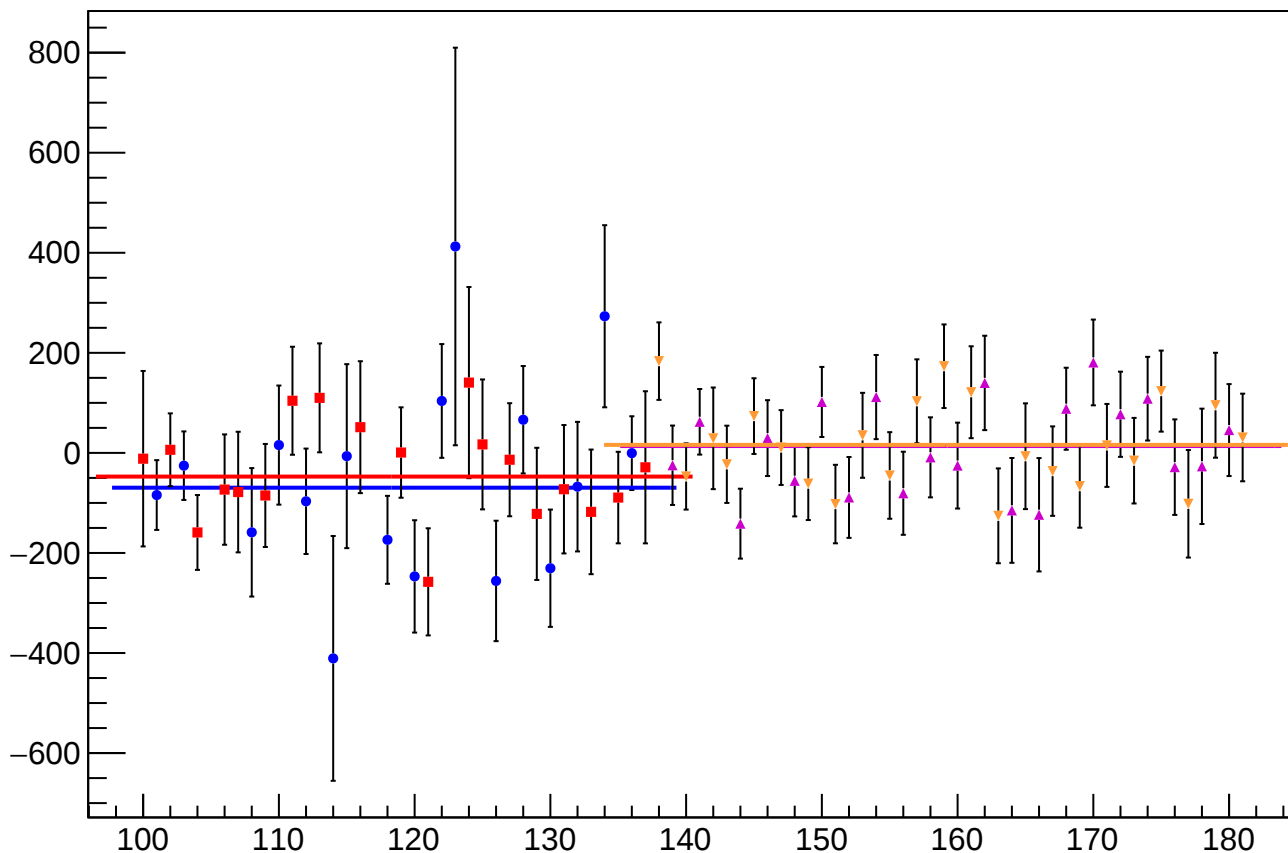
Right: 945.752 ± 0.181 χ^2/NDF : 462784.3/35

In: 1116.743 ± 0.169 χ^2/NDF : 2118514.3/37

Out: 1111.448 ± 0.163 χ^2/NDF : 2152092.8/41

All: 1113.995 ± 0.117 χ^2/NDF : 4271116.7/79

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -69.559 $\pm$ 25.981 χ^2/NDF : 21.6/16

Left Out: 16.010 $\pm$ 17.531 χ^2/NDF :23.6/22

Right Out: -47.342 $\pm$ 25.054 χ^2/NDF : 14.0/18

Left In: 13.700 $\pm$ 18.096 χ^2/NDF :24.5/20

Left: 14.891 $\pm$ 12.591 χ^2/NDF : 48.1/43

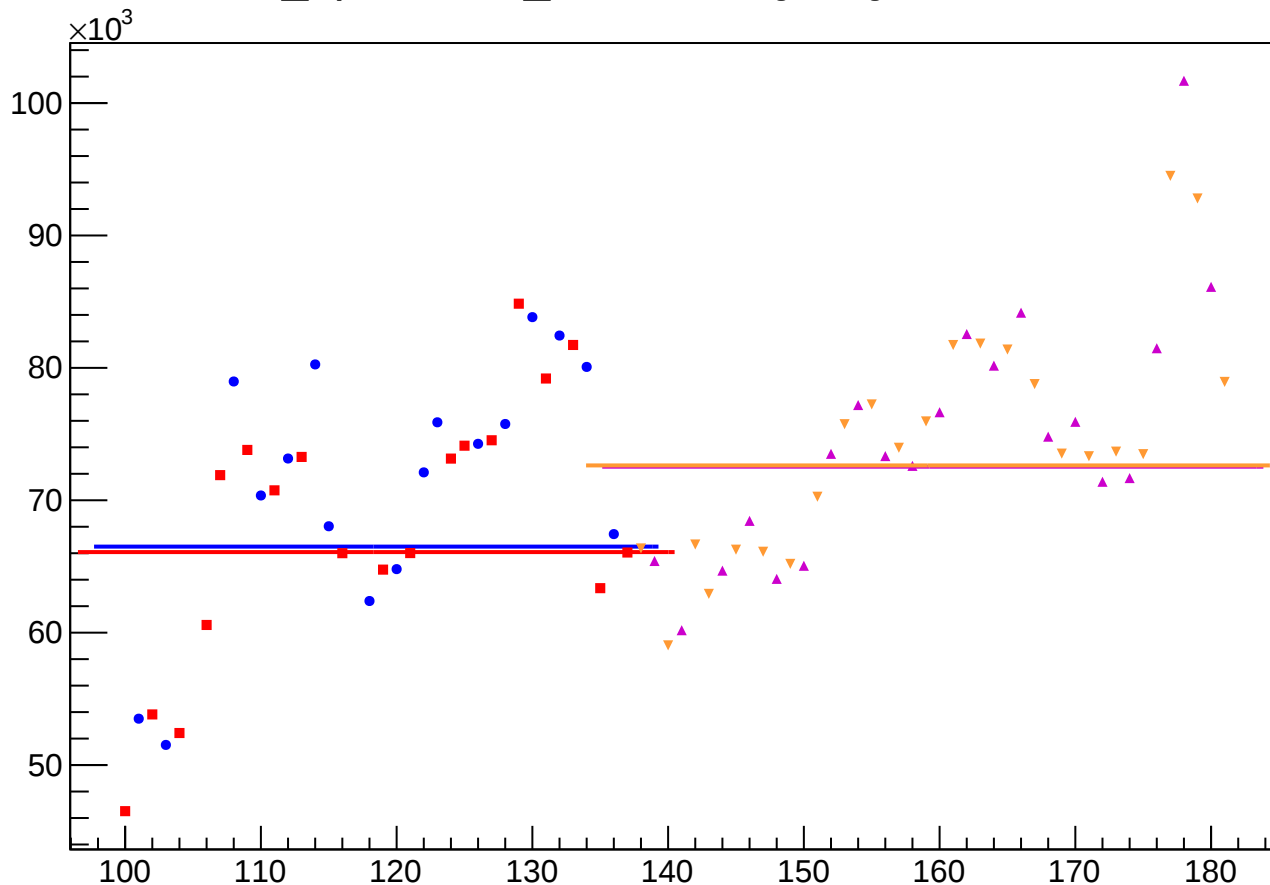
Right: -58.047 $\pm$ 18.035 χ^2/NDF : 36.0/35

In: -13.498 $\pm$ 14.849 χ^2/NDF :53.0/37

Out: -4.813 $\pm$ 14.364 χ^2/NDF :42.0/41

All: -9.011 $\pm$ 10.324 χ^2/NDF : 95.1/79

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66500.038 $\pm$ 18.371 χ^2 /NDF: 320048.0/16

Left Out: 72632.320 $\pm$ 12.396 χ^2 /NDF: 429613.8/22

Right Out: 66086.098 $\pm$ 17.716 χ^2 /NDF: 298277.2/18

Left In: 72536.423 $\pm$ 12.796 χ^2 /NDF: 429150.0/20

Left: 72585.893 $\pm$ 8.903 χ^2 /NDF: 858792.8/43

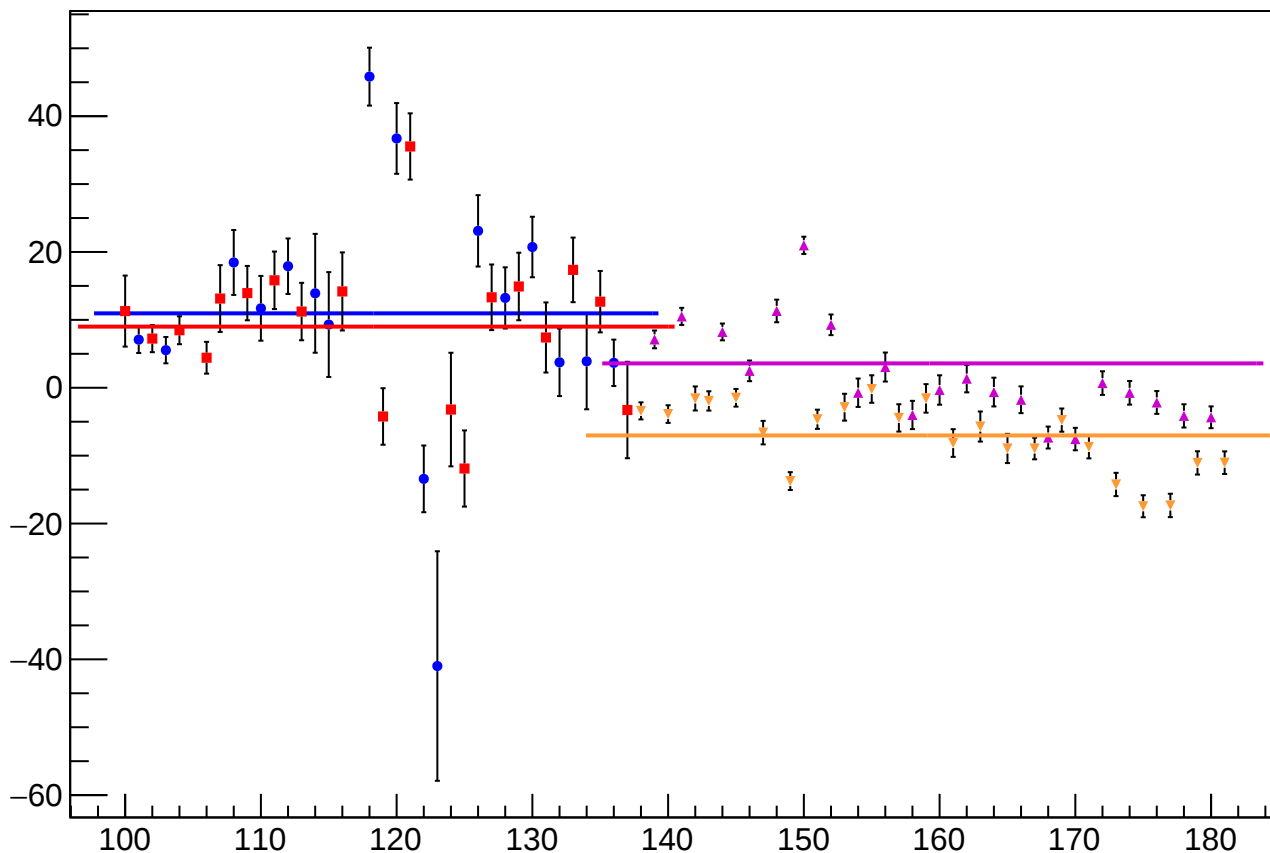
Right: 66285.552 $\pm$ 12.752 χ^2 /NDF: 618588.3/35

In: 70564.564 $\pm$ 10.500 χ^2 /NDF: 821893.6/37

Out: 70480.688 $\pm$ 10.157 χ^2 /NDF: 819552.3/41

All: 70521.232 $\pm$ 7.300 χ^2 /NDF: 1641478.9/77

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.959 ± 0.944 $\chi^2/\text{NDF}: 160.6/16$

Left Out: -7.022 ± 0.343 $\chi^2/\text{NDF}: 219.6/22$

Right Out: 9.006 ± 0.867 $\chi^2/\text{NDF}: 75.5/18$

Left In: 3.589 ± 0.358 $\chi^2/\text{NDF}: 465.0/20$

Left: -1.942 ± 0.247 $\chi^2/\text{NDF}: 1143.6/43$

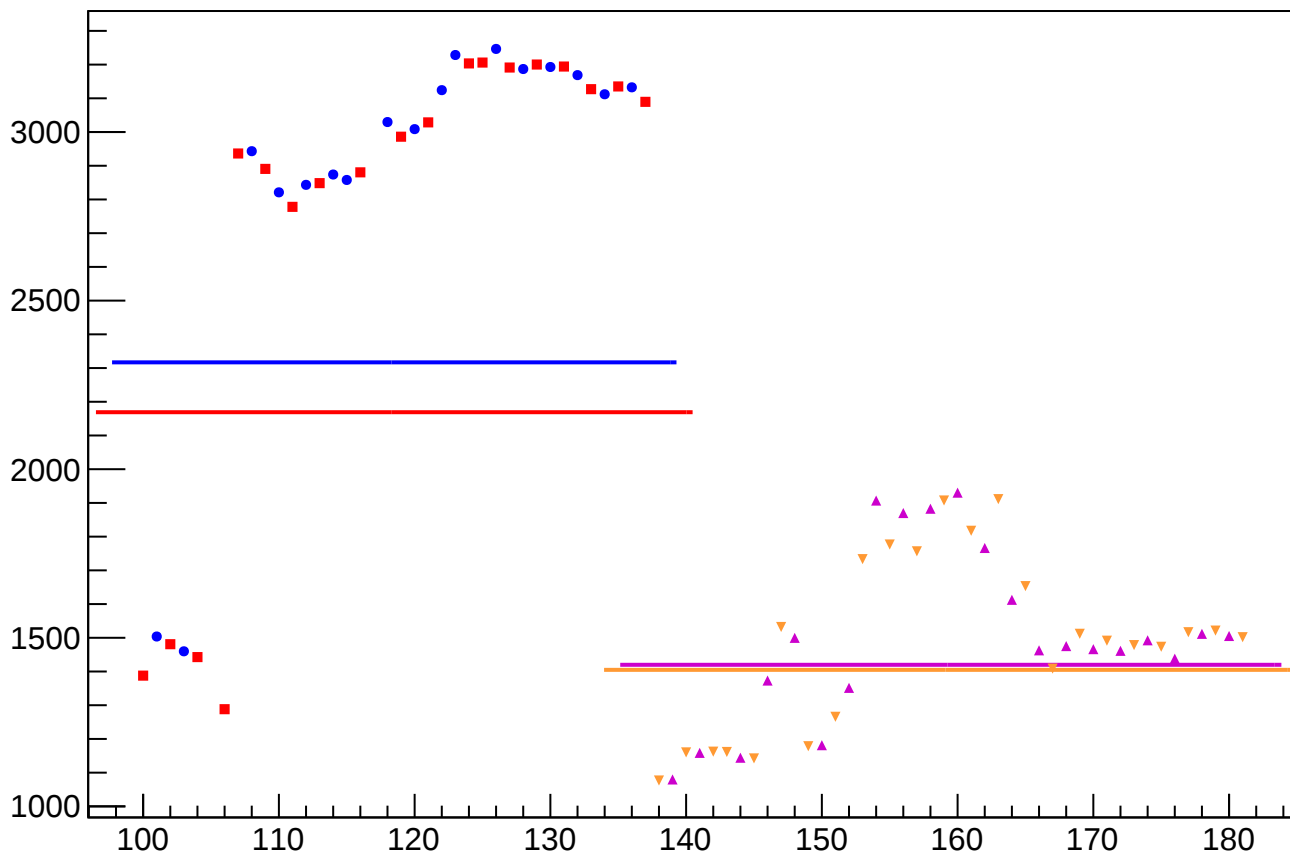
Right: 9.899 ± 0.639 $\chi^2/\text{NDF}: 238.4/35$

In: 4.513 ± 0.334 $\chi^2/\text{NDF}: 678.9/37$

Out: -4.857 ± 0.319 $\chi^2/\text{NDF}: 590.6/41$

All: -0.397 ± 0.231 $\chi^2/\text{NDF}: 1681.0/79$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2316.901+/-0.668 χ^2/NDF : 1405097.4/16

Left Out: 1404.906+/-0.242 χ^2/NDF : 1029727.8/22

Right Out: 2169.038+/-0.613 χ^2/NDF : 1749119.2/18

Left In: 1419.890+/-0.253 χ^2/NDF : 904883.4/20

Left: 1412.079+/-0.175 χ^2/NDF : 1936442.2/43

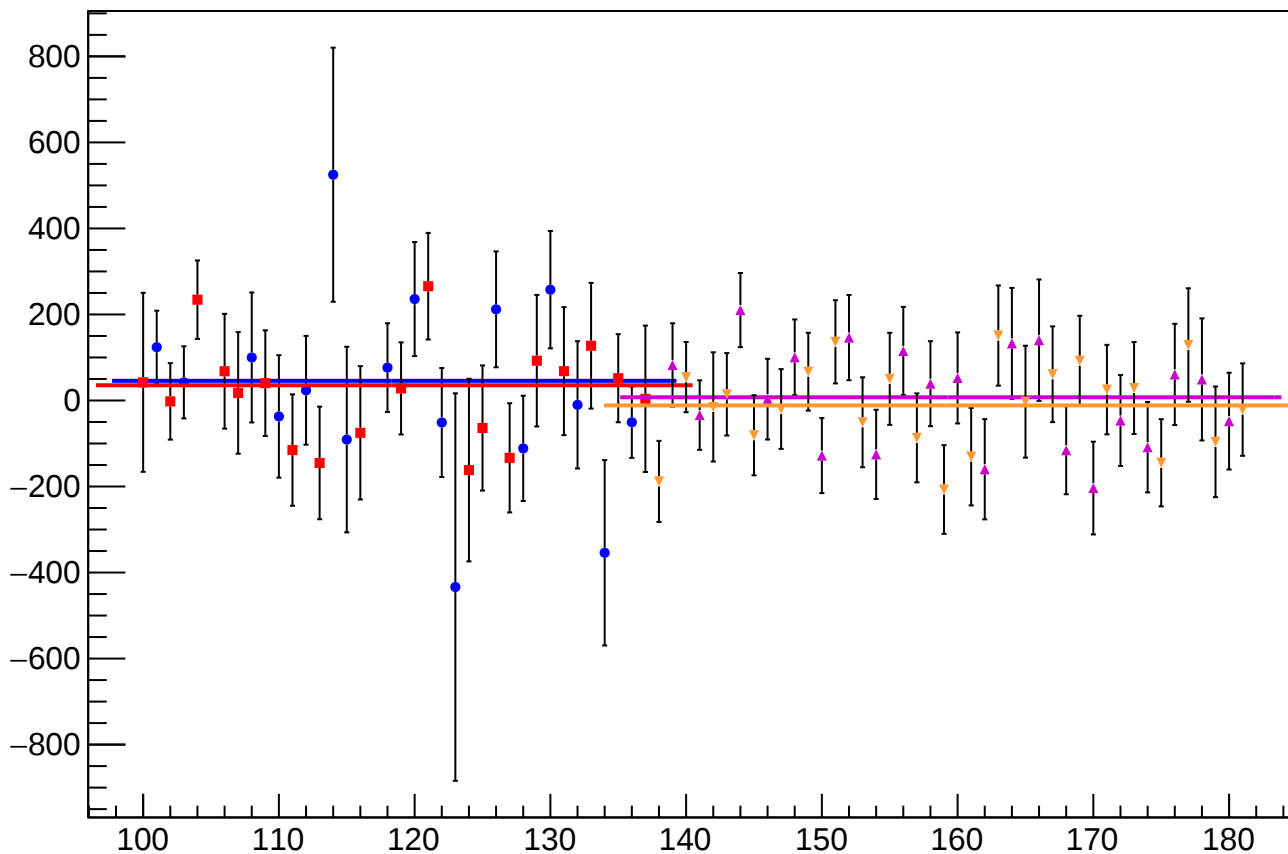
Right: 2236.688+/-0.452 χ^2/NDF : 3180824.5/35

In: 1532.394+/-0.236 χ^2/NDF : 3888670.4/37

Out: 1508.112+/-0.225 χ^2/NDF : 4122230.3/41

All: 1519.669+/-0.163 χ^2/NDF : 8016427.5/79

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 45.747+/-30.474 χ^2/NDF : 18.8/16

Left Out: -11.484+/-21.694 χ^2/NDF : 20.5/22

Right Out: 35.391+/-29.480 χ^2/NDF : 16.0/18

Left In: 7.467+/-22.378 χ^2/NDF : 26.1/20

Left: -2.303+/-15.576 χ^2/NDF : 47.0/43

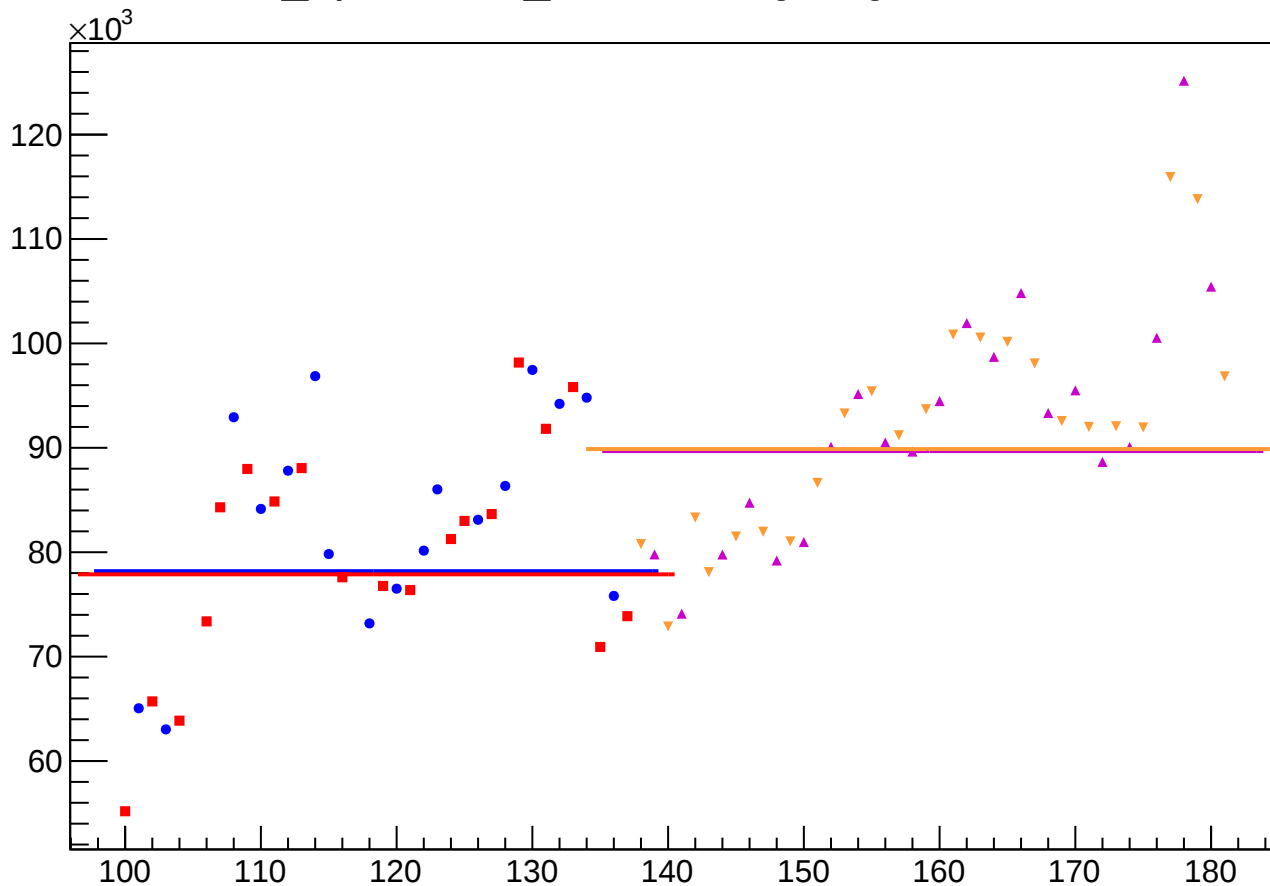
Right: 40.397+/-21.188 χ^2/NDF : 34.8/35

In: 20.878+/-18.037 χ^2/NDF : 45.9/37

Out: 4.982+/-17.473 χ^2/NDF : 38.1/41

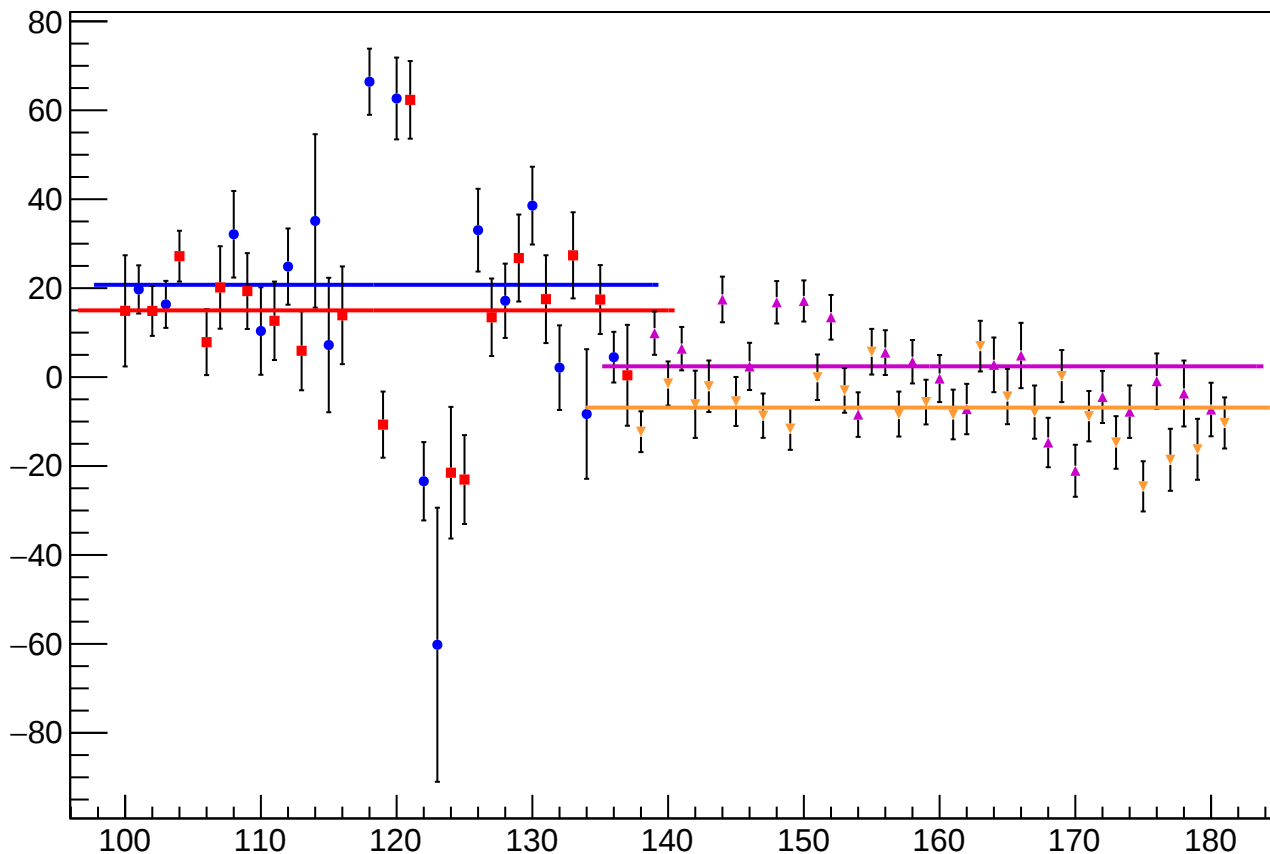
All: 12.678+/-12.550 χ^2/NDF : 84.4/79

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 78183.588 $\pm$ 21.548	χ^2/NDF : 250278.3/16	Left: 89786.662 $\pm$ 11.014	χ^2/NDF : 851853.7/43
Left Out: 89878.810 $\pm$ 15.340	χ^2/NDF : 421744.3/22	Right: 78027.099 $\pm$ 14.982	χ^2/NDF : 497649.1/35
Right Out: 77880.644 $\pm$ 20.846	χ^2/NDF : 247268.7/18	In: 85657.940 $\pm$ 12.754	χ^2/NDF : 865515.4/37
Left In: 89688.608 $\pm$ 15.824	χ^2/NDF : 430034.9/20	Out: 85663.997 $\pm$ 12.355	χ^2/NDF : 883919.8/41
		All: 85661.065 $\pm$ 8.874	χ^2/NDF : 1749435.3/71

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.754 $\pm$ 2.039 χ^2/NDF : 117.4/16

Left Out: -6.858 $\pm$ 1.150 χ^2/NDF : 37.4/22

Right Out: 15.004 $\pm$ 1.958 χ^2/NDF : 74.0/18

Left In: 2.421 $\pm$ 1.185 χ^2/NDF : 77.6/20

Left: -2.358 $\pm$ 0.825 χ^2/NDF : 146.6/43

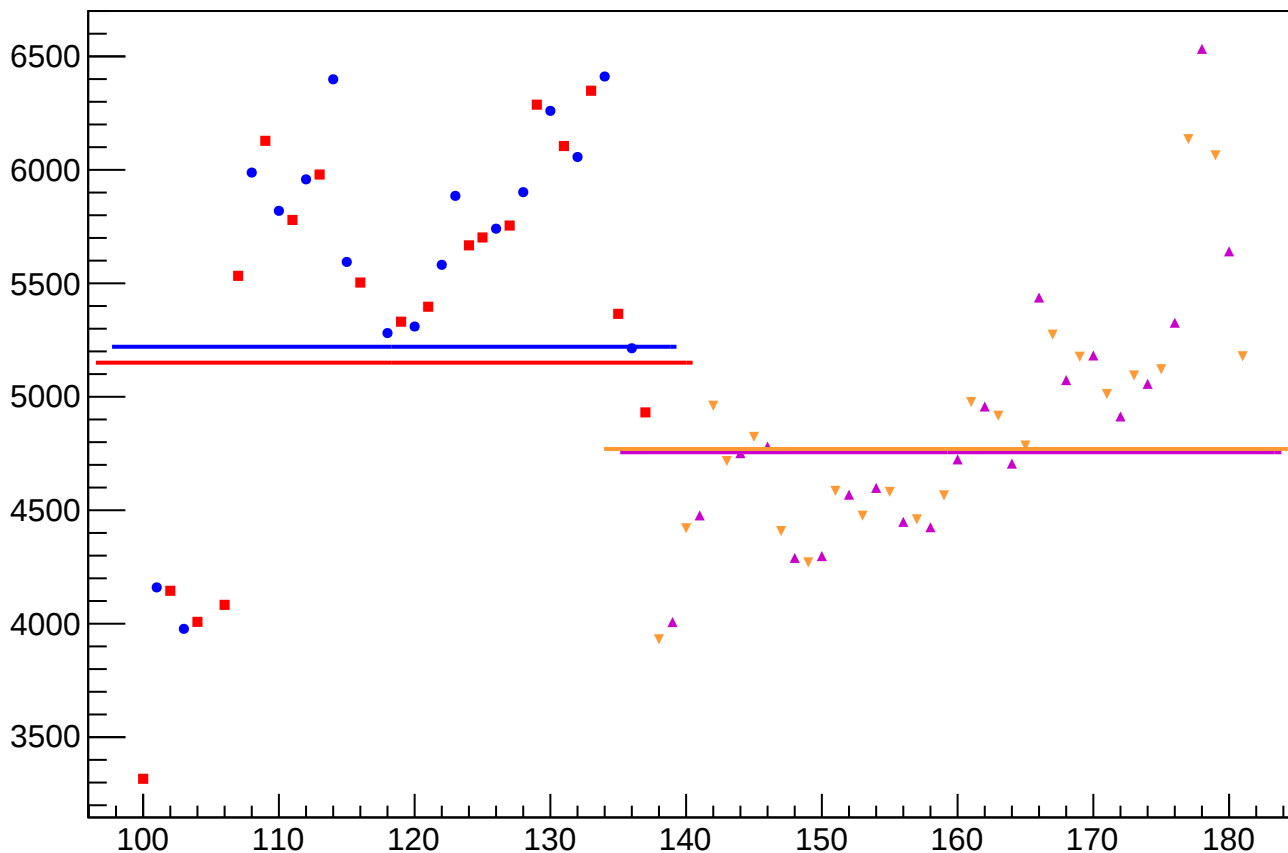
Right: 17.763 $\pm$ 1.412 χ^2/NDF : 195.5/35

In: 7.051 $\pm$ 1.024 χ^2/NDF : 255.4/37

Out: -1.251 $\pm$ 0.991 χ^2/NDF : 204.2/41

All: 2.764 $\pm$ 0.712 χ^2/NDF : 493.5/79

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 5220.495 $\pm$ 1.441 χ^2 /NDF: 311533.7/16

Left Out: 4770.066 $\pm$ 0.813 χ^2 /NDF: 337240.5/22

Right Out: 5150.309 $\pm$ 1.384 χ^2 /NDF: 387575.3/18

Left In: 4755.612 $\pm$ 0.838 χ^2 /NDF: 332799.1/20

Left: 4763.056 $\pm$ 0.583 χ^2 /NDF: 670192.9/43

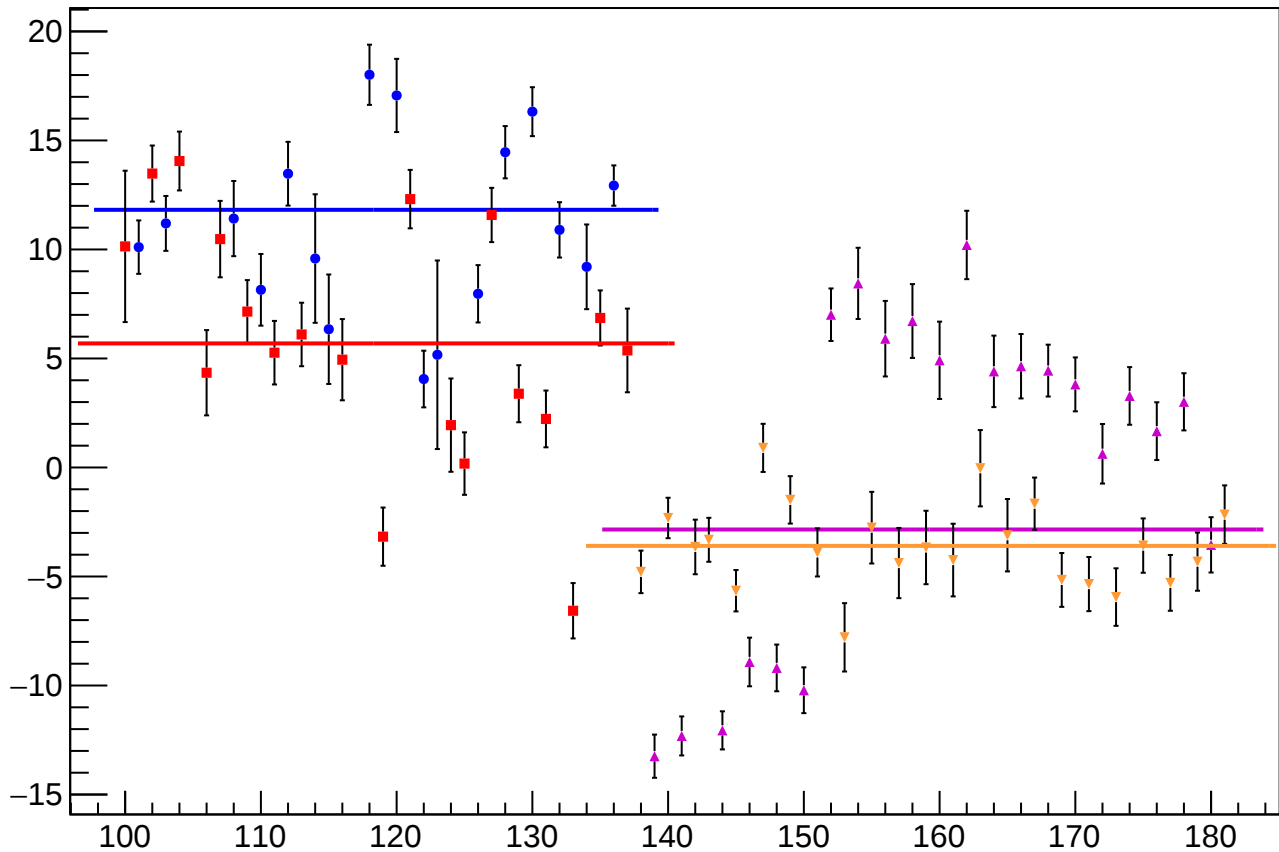
Right: 5183.979 $\pm$ 0.998 χ^2 /NDF: 700342.4/35

In: 4873.008 $\pm$ 0.724 χ^2 /NDF: 722076.4/37

Out: 4867.596 $\pm$ 0.701 χ^2 /NDF: 780922.6/41

All: 4870.213 $\pm$ 0.504 χ^2 /NDF: 1503027.9/79

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 11.819 ± 0.345 $\chi^2/\text{NDF}: 115.1/16$

Left Out: -3.596 ± 0.259 $\chi^2/\text{NDF}: 53.2/22$

Right Out: 5.691 ± 0.339 $\chi^2/\text{NDF}: 299.2/18$

Left In: -2.845 ± 0.270 $\chi^2/\text{NDF}: 879.4/20$

Left: -3.237 ± 0.187 $\chi^2/\text{NDF}: 936.6/43$

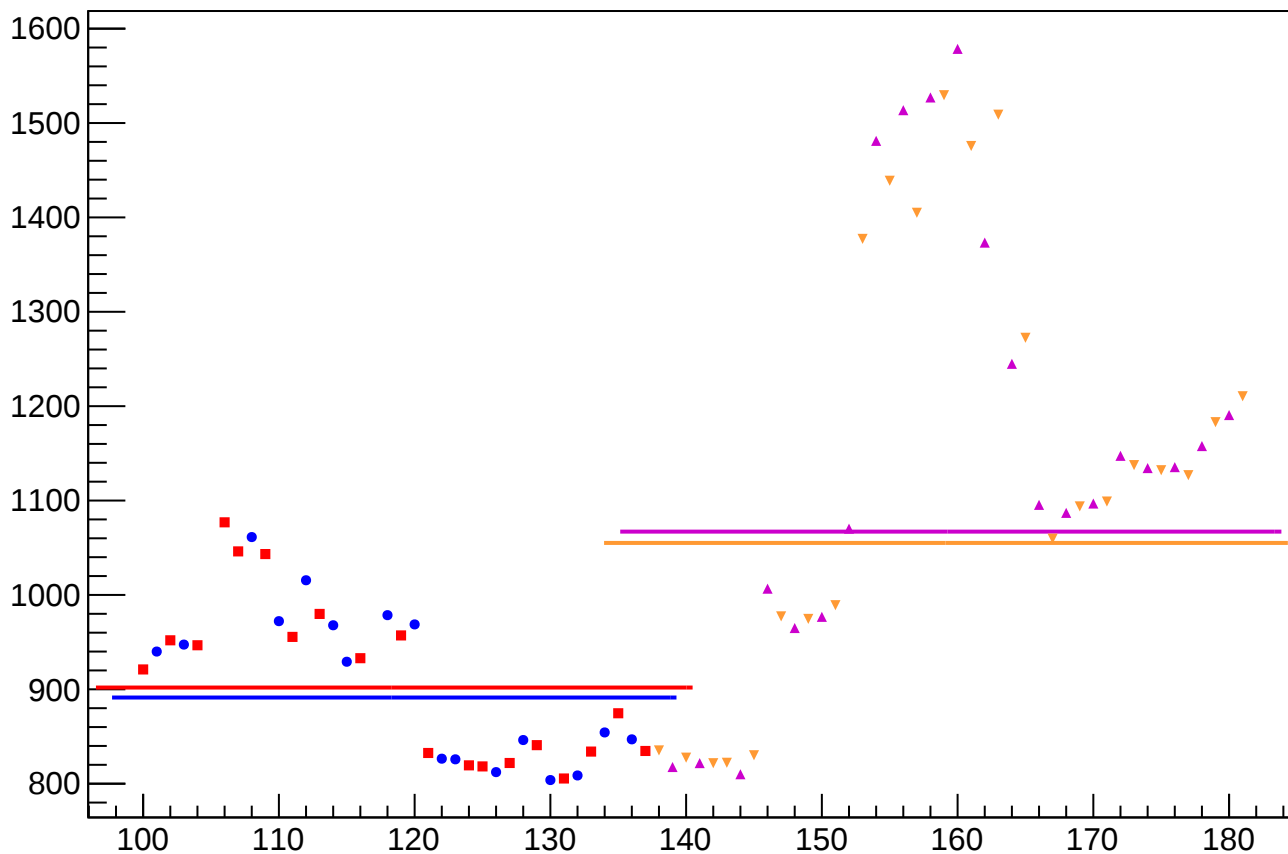
Right: 8.701 ± 0.242 $\chi^2/\text{NDF}: 574.6/35$

In: 2.726 ± 0.213 $\chi^2/\text{NDF}: 2113.7/37$

Out: -0.180 ± 0.206 $\chi^2/\text{NDF}: 826.4/41$

All: 1.224 ± 0.148 $\chi^2/\text{NDF}: 3036.6/79$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 891.299 $\pm$ 0.244 χ^2 /NDF: 101327.8/16

Left Out: 1055.103 $\pm$ 0.183 χ^2 /NDF:1353045.5/22

Right Out: 901.879 $\pm$ 0.240 χ^2 /NDF: 114242.3/18

Left In: 1067.082 $\pm$ 0.191 χ^2 /NDF:1212621.5/20

Left: 1060.832 $\pm$ 0.132 χ^2 /NDF: 2567718.9/43

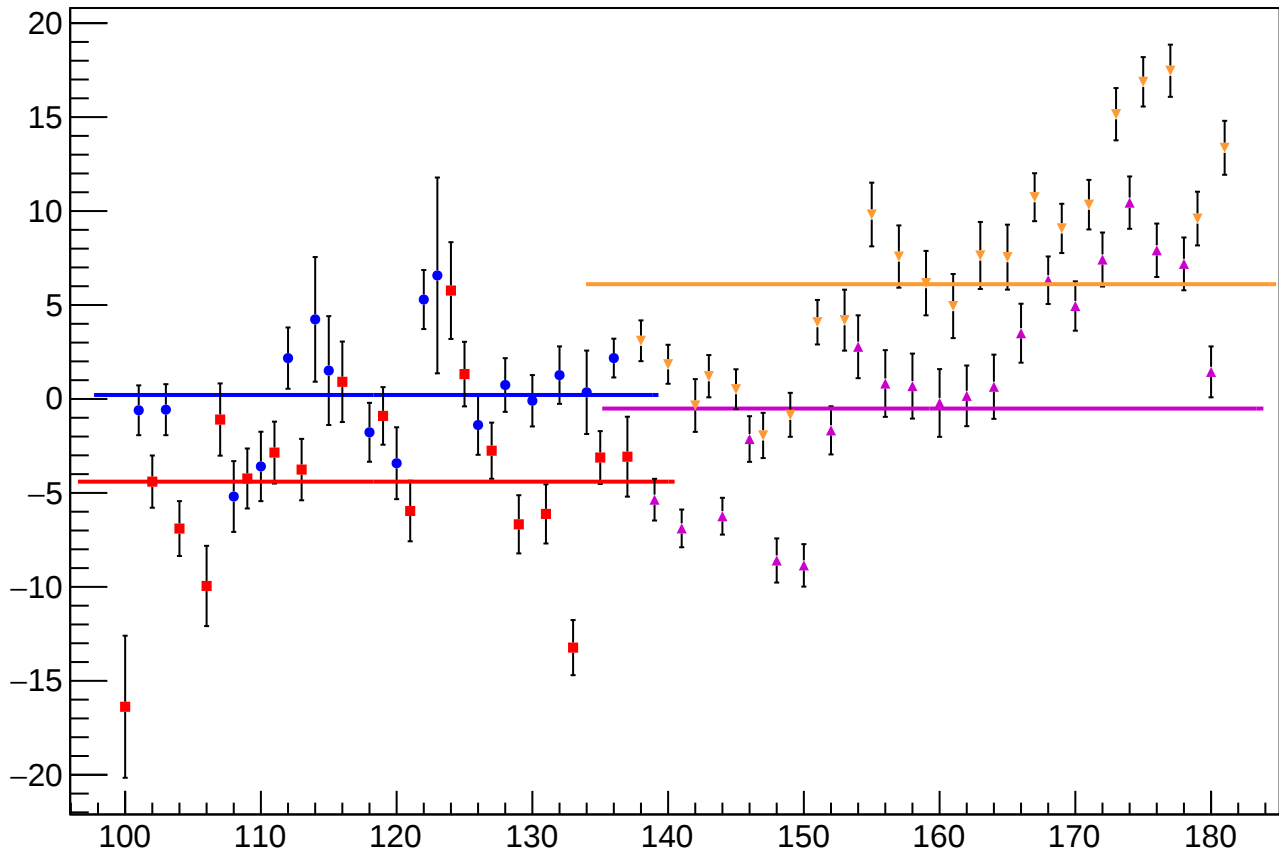
Right: 896.682 $\pm$ 0.171 χ^2 /NDF: 216526.2/35

In: 1000.306 $\pm$ 0.150 χ^2 /NDF:1635628.7/37

Out: 998.751 $\pm$ 0.145 χ^2 /NDF:1725402.4/41

All: 999.502 $\pm$ 0.105 χ^2 /NDF: 3361086.3/79

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.396 χ^2/NDF : 38.8/16

Left Out: 6.108 ± 0.279 χ^2/NDF : 420.7/22

Right Out: -4.400 ± 0.387 χ^2/NDF : 104.8/18

Left In: -0.510 ± 0.291 χ^2/NDF : 416.1/20

Left: 2.939 ± 0.201 χ^2/NDF : 1107.1/43

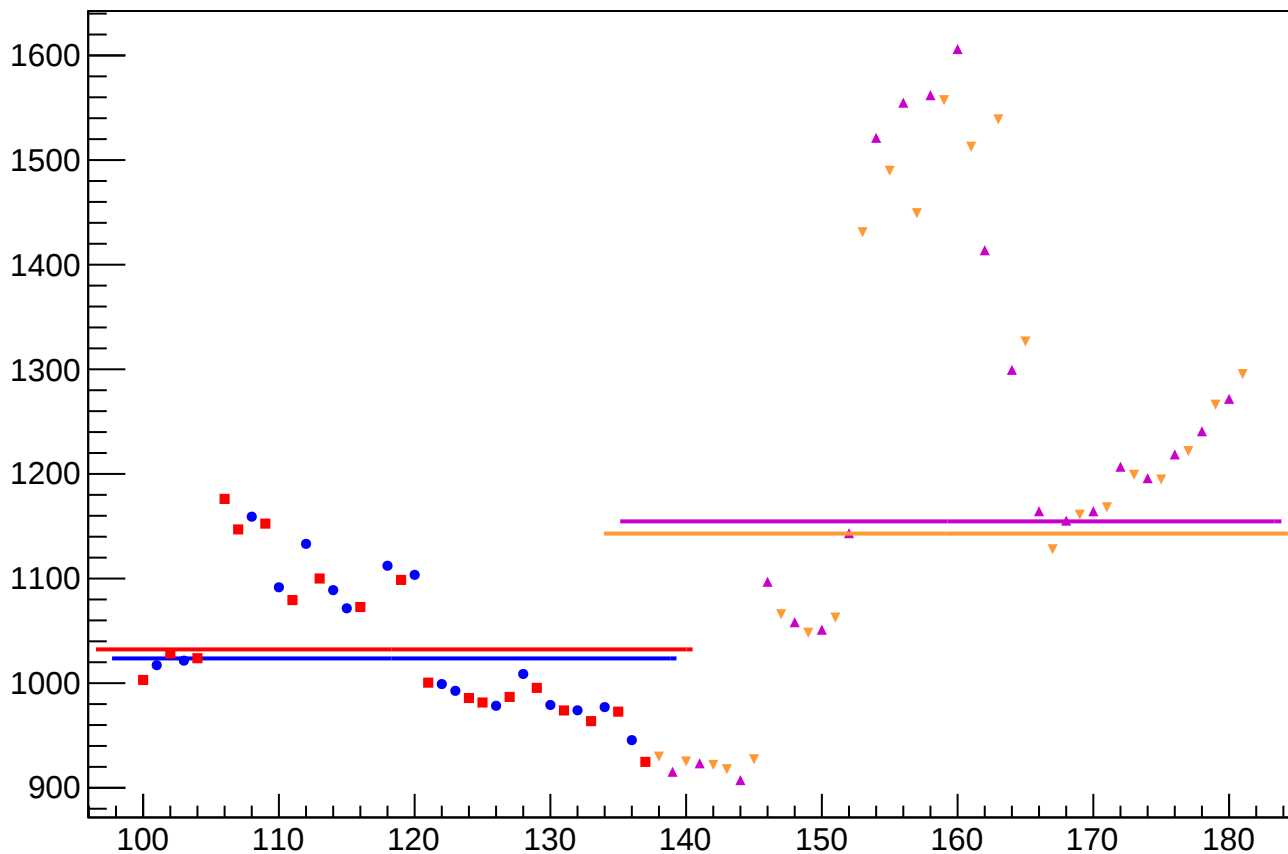
Right: -2.142 ± 0.277 χ^2/NDF : 212.9/35

In: -0.257 ± 0.234 χ^2/NDF : 457.1/37

Out: 2.527 ± 0.226 χ^2/NDF : 1010.5/41

All: 1.184 ± 0.163 χ^2/NDF : 1540.6/79

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 1023.643 $\pm$ 0.280 χ^2/NDF : 52282.5/16

Left Out: 1142.993 $\pm$ 0.197 χ^2/NDF : 1007190.0/22

Right Out: 1032.299 $\pm$ 0.274 χ^2/NDF : 59262.4/18

Left In: 1154.651 $\pm$ 0.206 χ^2/NDF : 892653.5/20

Left: 1148.576 $\pm$ 0.142 χ^2/NDF : 1901520.9/43

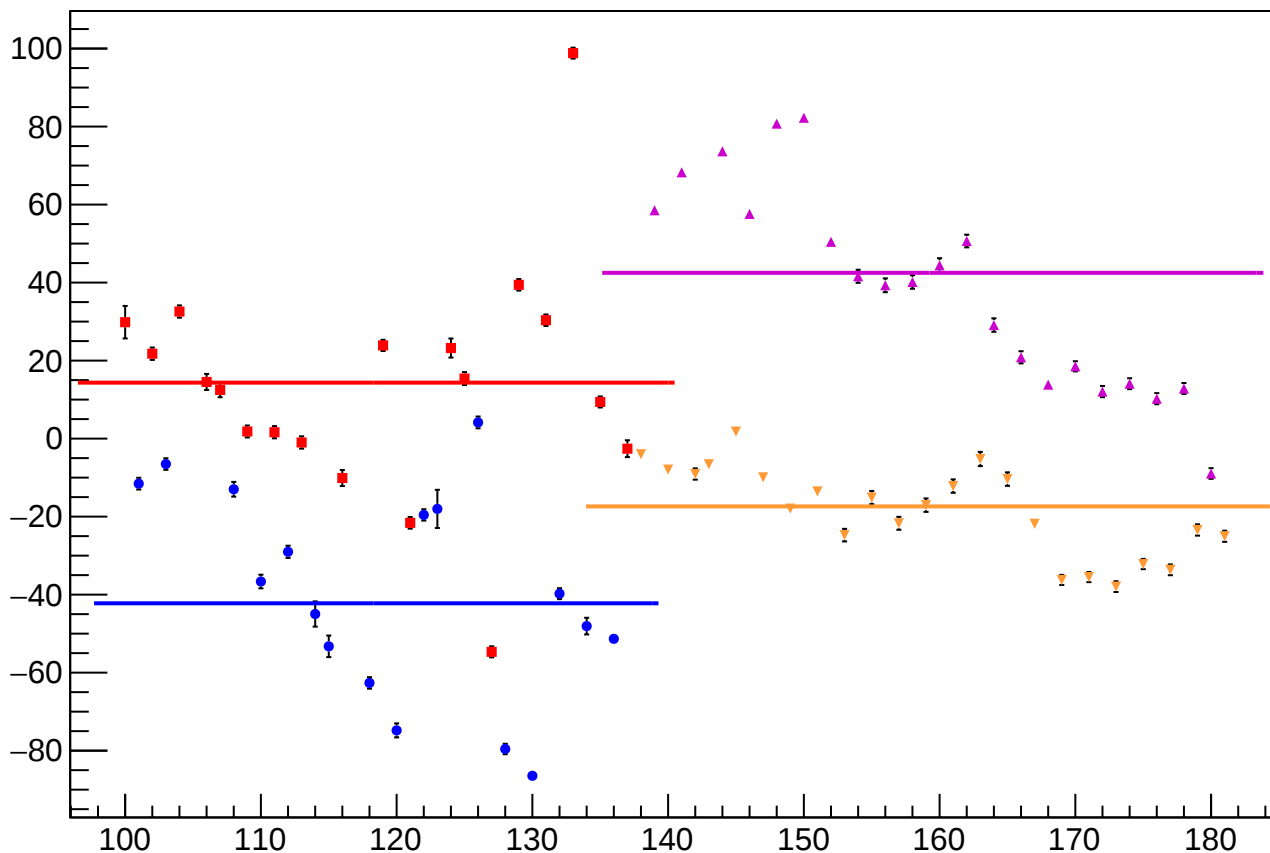
Right: 1028.062 $\pm$ 0.196 χ^2/NDF : 112033.6/35

In: 1108.742 $\pm$ 0.166 χ^2/NDF : 1087357.4/37

Out: 1105.267 $\pm$ 0.160 χ^2/NDF : 1174073.0/41

All: 1106.943 $\pm$ 0.115 χ^2/NDF : 2261658.2/79

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -42.222 ± 0.388 χ^2/NDF : 5097.2/16

Left Out: -17.385 ± 0.282 χ^2/NDF : 1744.3/22

Right Out: 14.353 ± 0.379 χ^2/NDF : 7667.7/18

Left In: 42.499 ± 0.296 χ^2/NDF : 8272.3/20

Left: 11.160 ± 0.204 χ^2/NDF : 31456.8/43

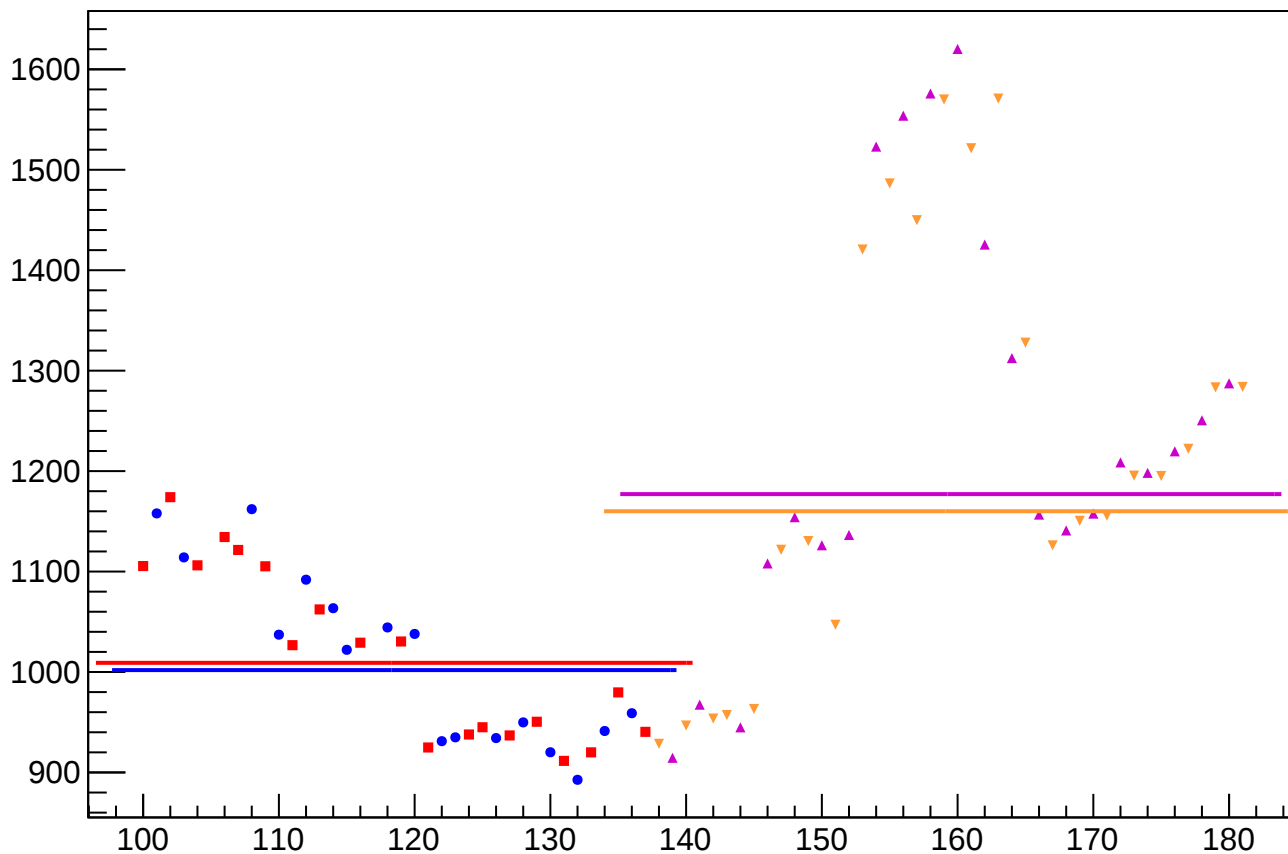
Right: -13.294 ± 0.271 χ^2/NDF : 23642.7/35

In: 11.337 ± 0.235 χ^2/NDF : 43529.9/37

Out: -6.064 ± 0.226 χ^2/NDF : 13918.6/41

All: 2.306 ± 0.163 χ^2/NDF : 60288.4/79

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 1001.897 ± 0.274 χ^2/NDF : 95203.3/16

Left Out: 1160.057 ± 0.200 χ^2/NDF : 905322.6/22

Right Out: 1009.139 ± 0.268 χ^2/NDF : 95040.9/18

Left In: 1177.109 ± 0.209 χ^2/NDF : 788835.9/20

Left: 1168.185 ± 0.144 χ^2/NDF : 1697635.3/43

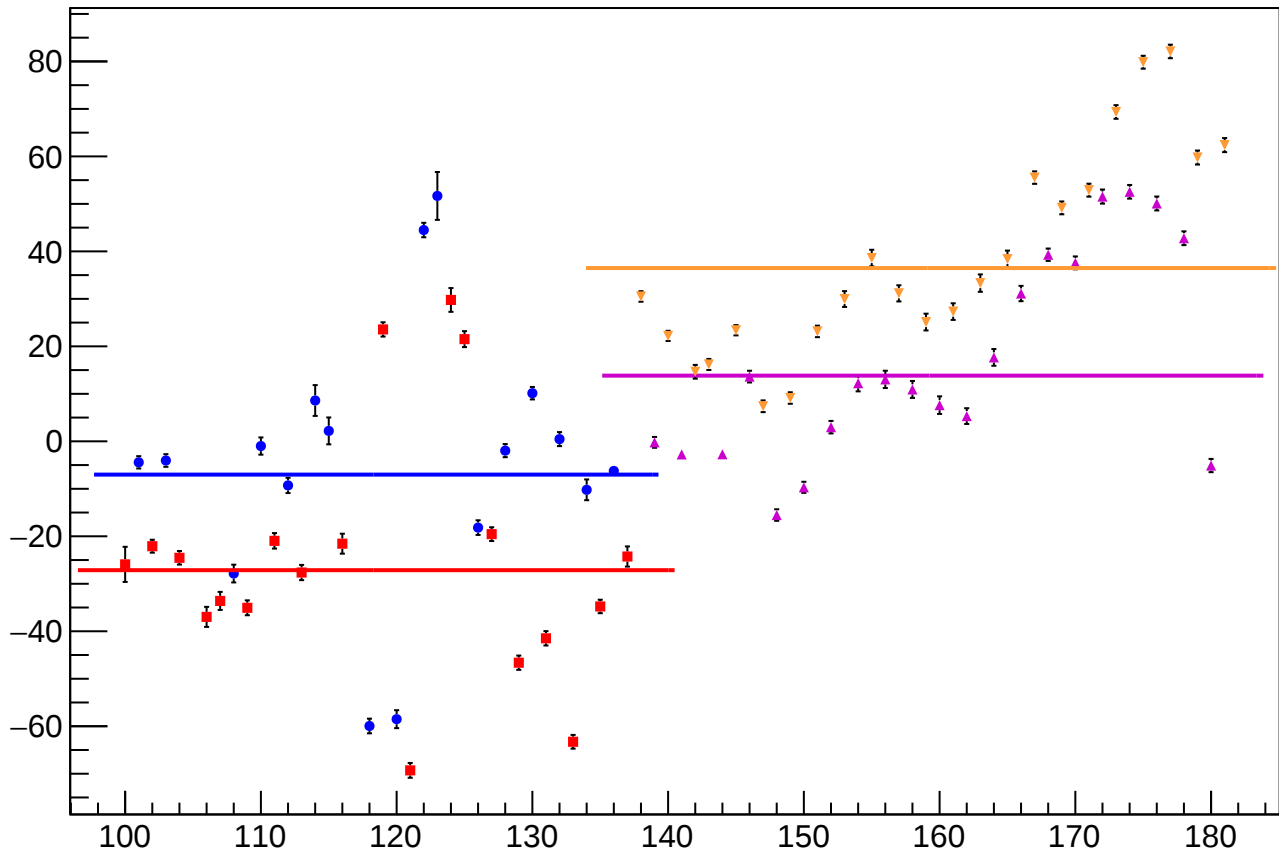
Right: 1005.600 ± 0.192 χ^2/NDF : 190600.7/35

In: 1112.663 ± 0.166 χ^2/NDF : 1142034.5/37

Out: 1106.224 ± 0.160 χ^2/NDF : 1204159.9/41

All: 1109.322 ± 0.115 χ^2/NDF : 2346972.0/79

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -7.011 ± 0.389 χ^2/NDF : 3634.7/16

Left Out: 36.488 ± 0.287 χ^2/NDF : 5726.9/22

Right Out: -27.137 ± 0.380 χ^2/NDF : 4257.1/18

Left In: 13.830 ± 0.299 χ^2/NDF : 5143.6/20

Left: 25.643 ± 0.207 χ^2/NDF : 13855.3/43

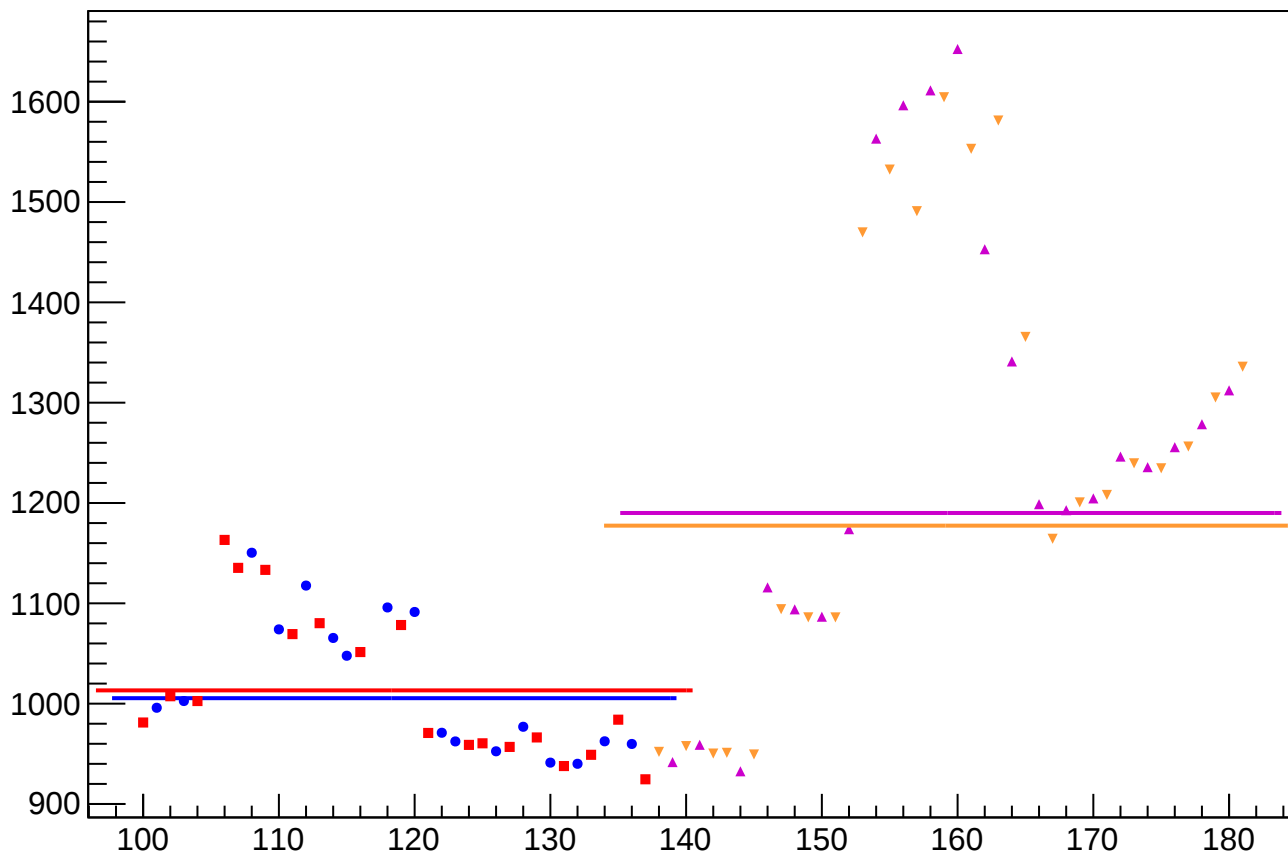
Right: -17.293 ± 0.272 χ^2/NDF : 9261.8/35

In: 6.066 ± 0.237 χ^2/NDF : 10582.4/37

Out: 13.406 ± 0.229 χ^2/NDF : 27821.5/41

All: 9.864 ± 0.165 χ^2/NDF : 38899.4/79

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 1005.453 $\pm$ 0.275 χ^2 /NDF: 54493.5/16

Left Out: 1177.429 $\pm$ 0.203 χ^2 /NDF:1005044.5/22

Right Out: 1013.228 $\pm$ 0.269 χ^2 /NDF: 63189.9/18

Left In: 1190.053 $\pm$ 0.212 χ^2 /NDF:885941.2/20

Left: 1183.472 $\pm$ 0.147 χ^2 /NDF: 1892838.5/43

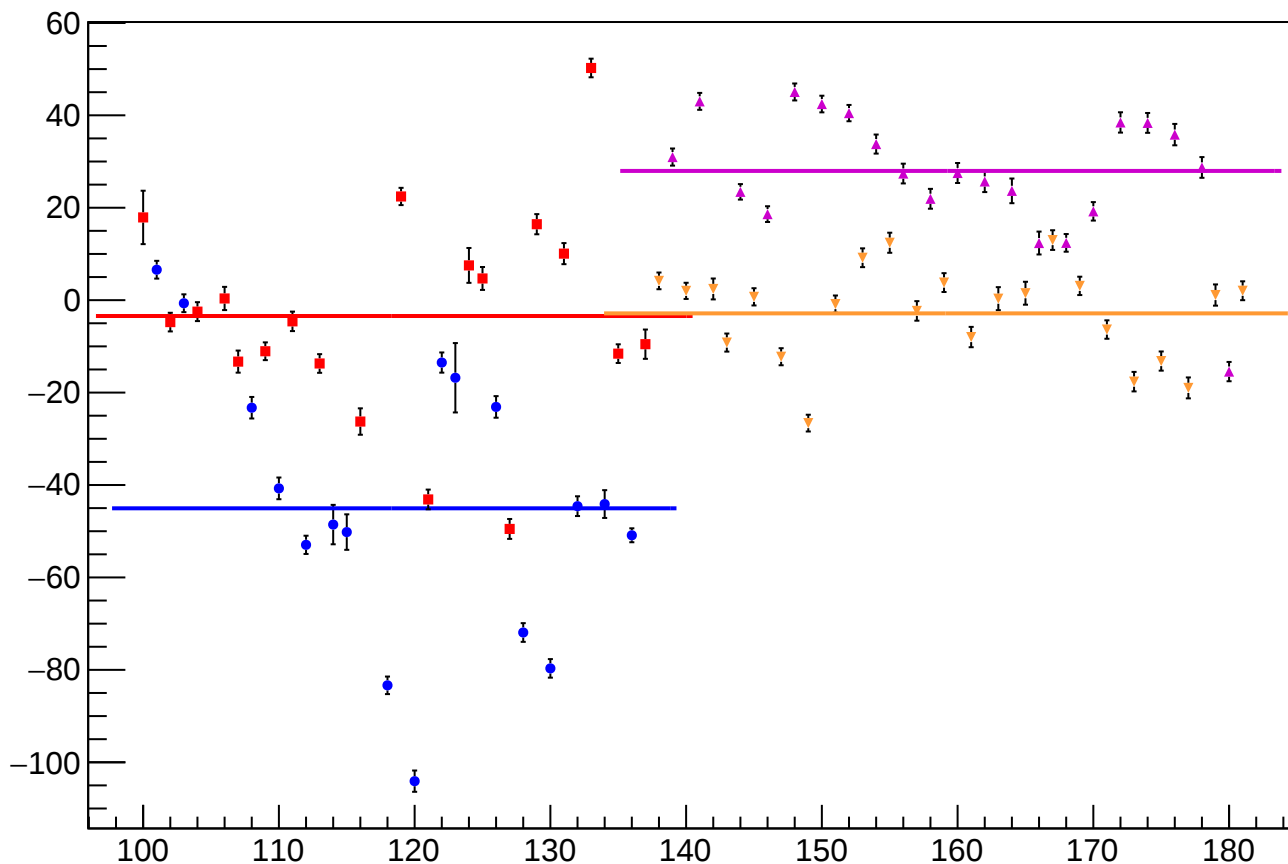
Right: 1009.425 $\pm$ 0.192 χ^2 /NDF: 118092.3/35

In: 1121.283 $\pm$ 0.168 χ^2 /NDF:1223544.8/37

Out: 1117.859 $\pm$ 0.162 χ^2 /NDF:1305841.1/41

All: 1119.511 $\pm$ 0.117 χ^2 /NDF: 2529601.4/79

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -45.043 $\pm$ 0.541 χ^2/NDF : 3223.5/16

Left Out: -2.860 $\pm$ 0.426 χ^2/NDF : 547.0/22

Right Out: -3.429 $\pm$ 0.523 χ^2/NDF : 2001.9/18

Left In: 27.965 $\pm$ 0.440 χ^2/NDF : 943.8/20

Left: 12.029 $\pm$ 0.306 χ^2/NDF : 4023.8/43

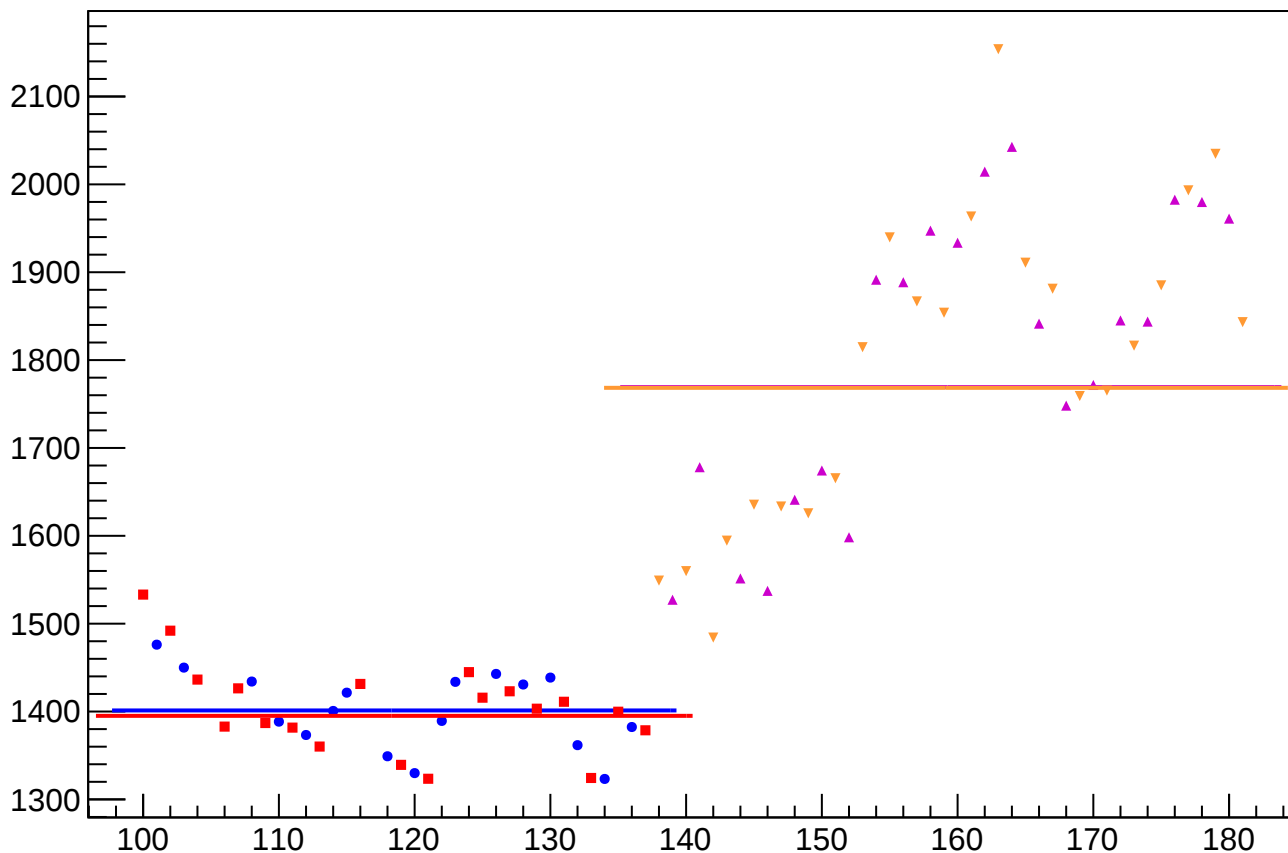
Right: -23.534 $\pm$ 0.376 χ^2/NDF : 8287.8/35

In: -1.156 $\pm$ 0.341 χ^2/NDF : 15130.3/37

Out: -3.087 $\pm$ 0.330 χ^2/NDF : 2549.6/41

All: -2.154 $\pm$ 0.237 χ^2/NDF : 17696.5/79

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1401.235+/-0.382 χ^2/NDF : 12839.4/16

Left Out: 1768.435+/-0.301 χ^2/NDF : 298497.2/22

Right Out: 1395.100+/-0.370 χ^2/NDF : 15523.2/18

Left In: 1769.290+/-0.311 χ^2/NDF : 284528.3/20

Left: 1768.848+/-0.216 χ^2/NDF : 583029.4/43

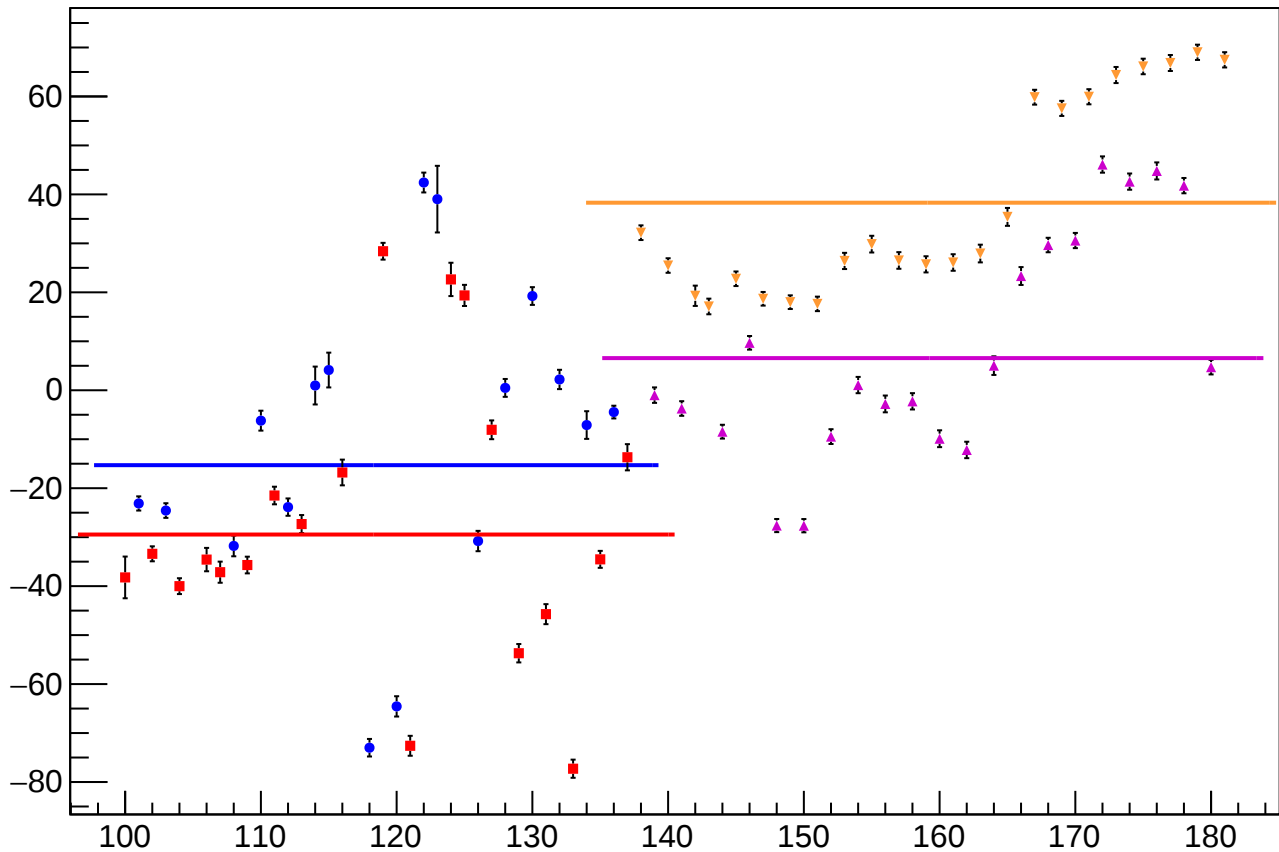
Right: 1398.064+/-0.266 χ^2/NDF : 28495.7/35

In: 1622.484+/-0.241 χ^2/NDF : 854619.3/37

Out: 1619.562+/-0.233 χ^2/NDF : 927517.7/41

All: 1620.974+/-0.168 χ^2/NDF : 1782212.6/79

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.296 ± 0.473 χ^2/NDF : 3345.6/16

Left Out: 38.303 ± 0.332 χ^2/NDF : 3490.6/22

Right Out: -29.461 ± 0.457 χ^2/NDF : 3528.0/18

Left In: 6.567 ± 0.343 χ^2/NDF : 4464.7/20

Left: 22.934 ± 0.238 χ^2/NDF : 12380.7/43

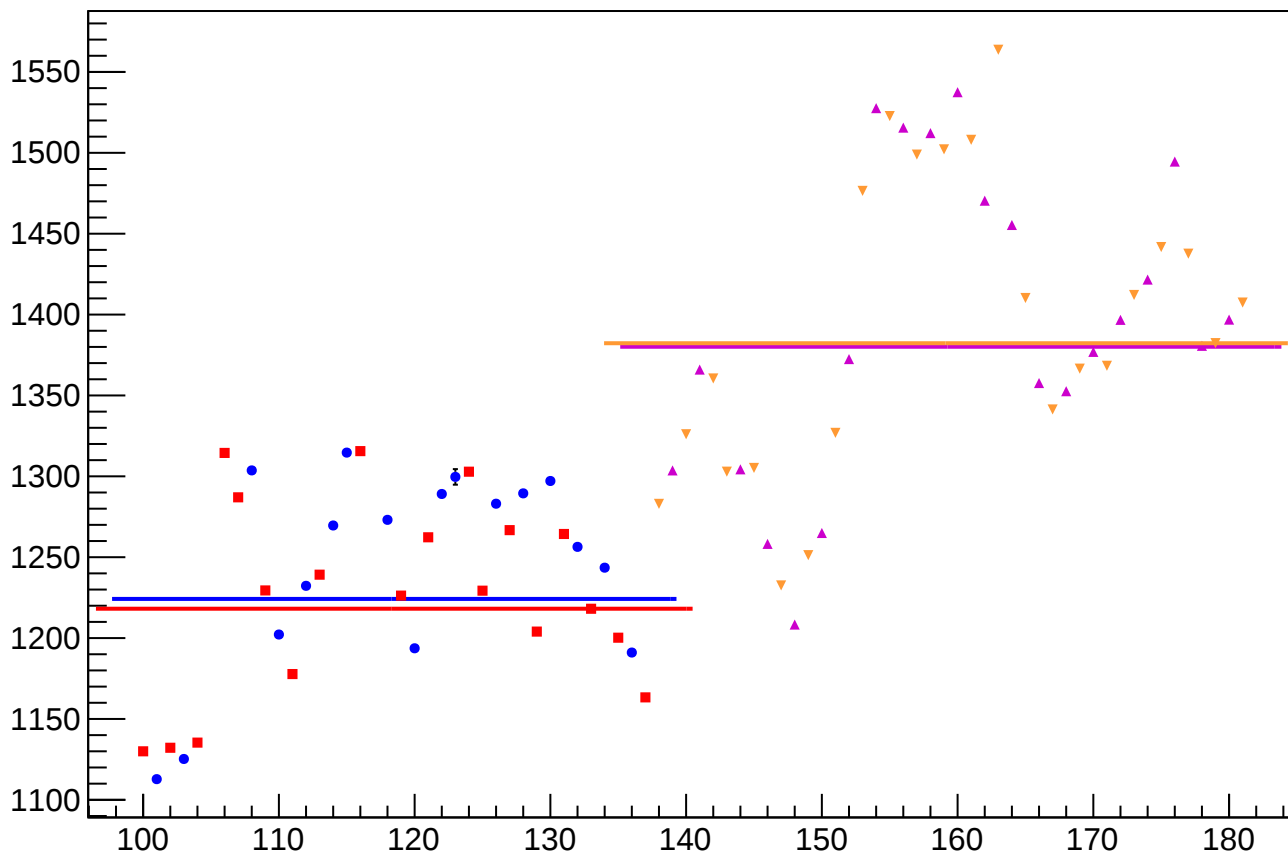
Right: -22.622 ± 0.329 χ^2/NDF : 7337.6/35

In: -0.958 ± 0.277 χ^2/NDF : 9211.9/37

Out: 14.888 ± 0.269 χ^2/NDF : 21414.7/41

All: 7.222 ± 0.193 χ^2/NDF : 32310.7/79

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1224.212 $\pm$ 0.334 χ^2 /NDF: 38774.7/16

Left Out: 1382.286 $\pm$ 0.235 χ^2 /NDF: 145484.1/22

Right Out: 1218.154 $\pm$ 0.323 χ^2 /NDF: 27562.5/18

Left In: 1380.114 $\pm$ 0.242 χ^2 /NDF: 150874.8/20

Left: 1381.234 $\pm$ 0.169 χ^2 /NDF: 296400.3/43

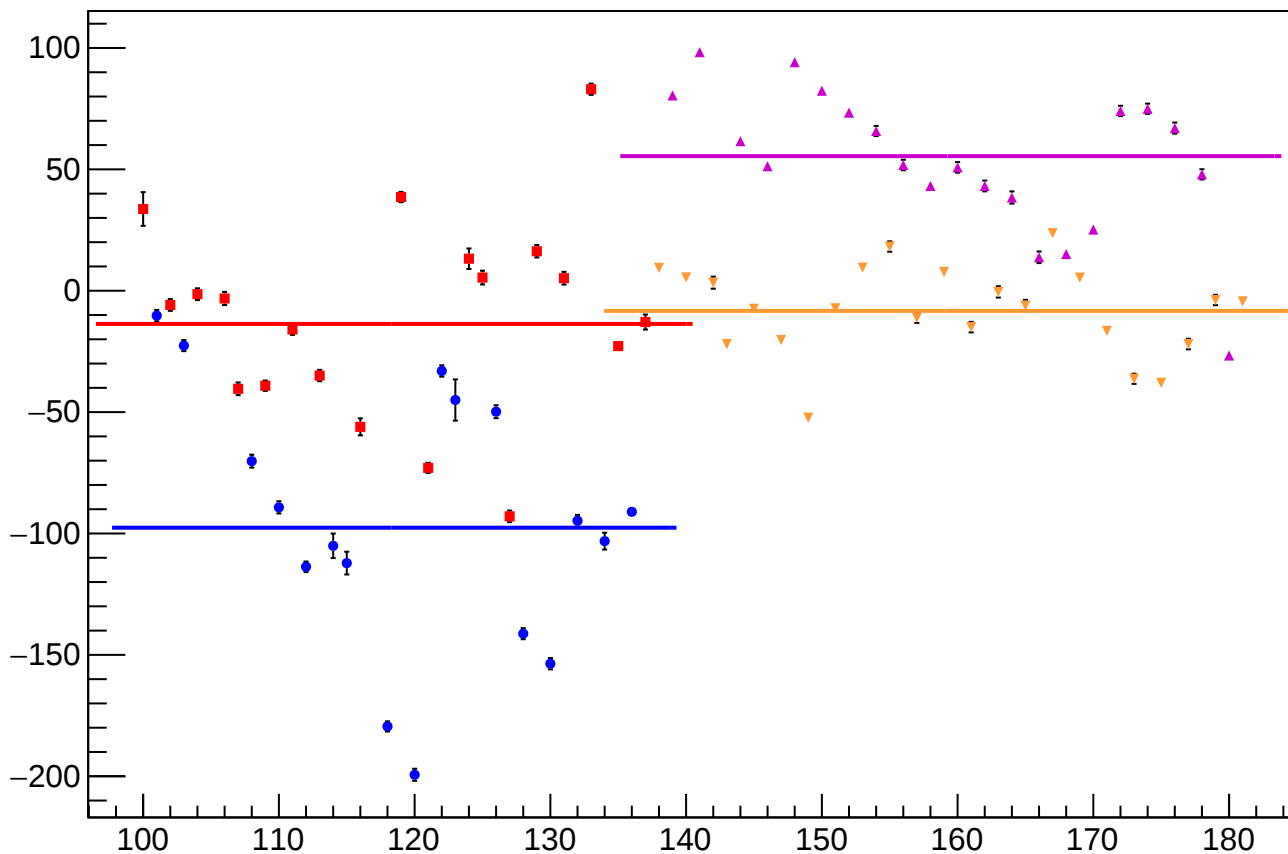
Right: 1221.079 $\pm$ 0.232 χ^2 /NDF: 66506.9/35

In: 1326.453 $\pm$ 0.196 χ^2 /NDF: 332200.2/37

Out: 1325.572 $\pm$ 0.190 χ^2 /NDF: 341958.3/41

All: 1325.998 $\pm$ 0.136 χ^2 /NDF: 674168.9/79

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.610 ± 0.602 χ^2/NDF : 7919.3/16

Left Out: -8.298 ± 0.421 χ^2/NDF : 1920.9/22

Right Out: -13.666 ± 0.580 χ^2/NDF : 5116.2/18

Left In: 55.444 ± 0.437 χ^2/NDF : 4524.7/20

Left: 22.349 ± 0.303 χ^2/NDF : 17473.0/43

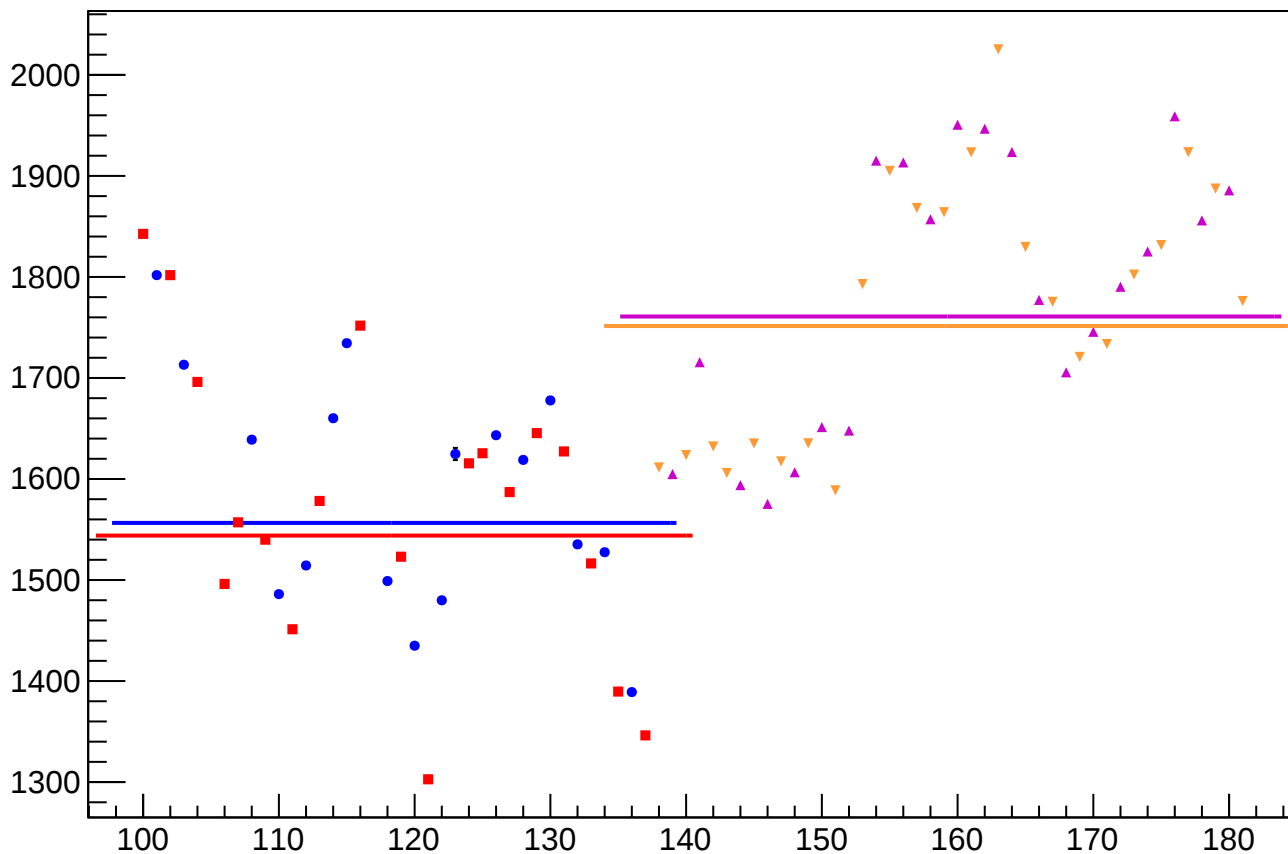
Right: -54.080 ± 0.418 χ^2/NDF : 23109.2/35

In: 2.597 ± 0.354 χ^2/NDF : 54725.7/37

Out: -10.148 ± 0.341 χ^2/NDF : 7093.2/41

All: -4.018 ± 0.245 χ^2/NDF : 62492.0/79

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1556.539 $\pm$ 0.426 χ^2/NDF : 81438.3/16

Left Out: 1751.406 $\pm$ 0.298 χ^2/NDF :171504.6/22

Right Out: 1543.993 $\pm$ 0.410 χ^2/NDF : 100599.9/18

Left In: 1760.851 $\pm$ 0.309 χ^2/NDF :179418.4/20

Left: 1755.948 $\pm$ 0.214 χ^2/NDF : 351407.3/43

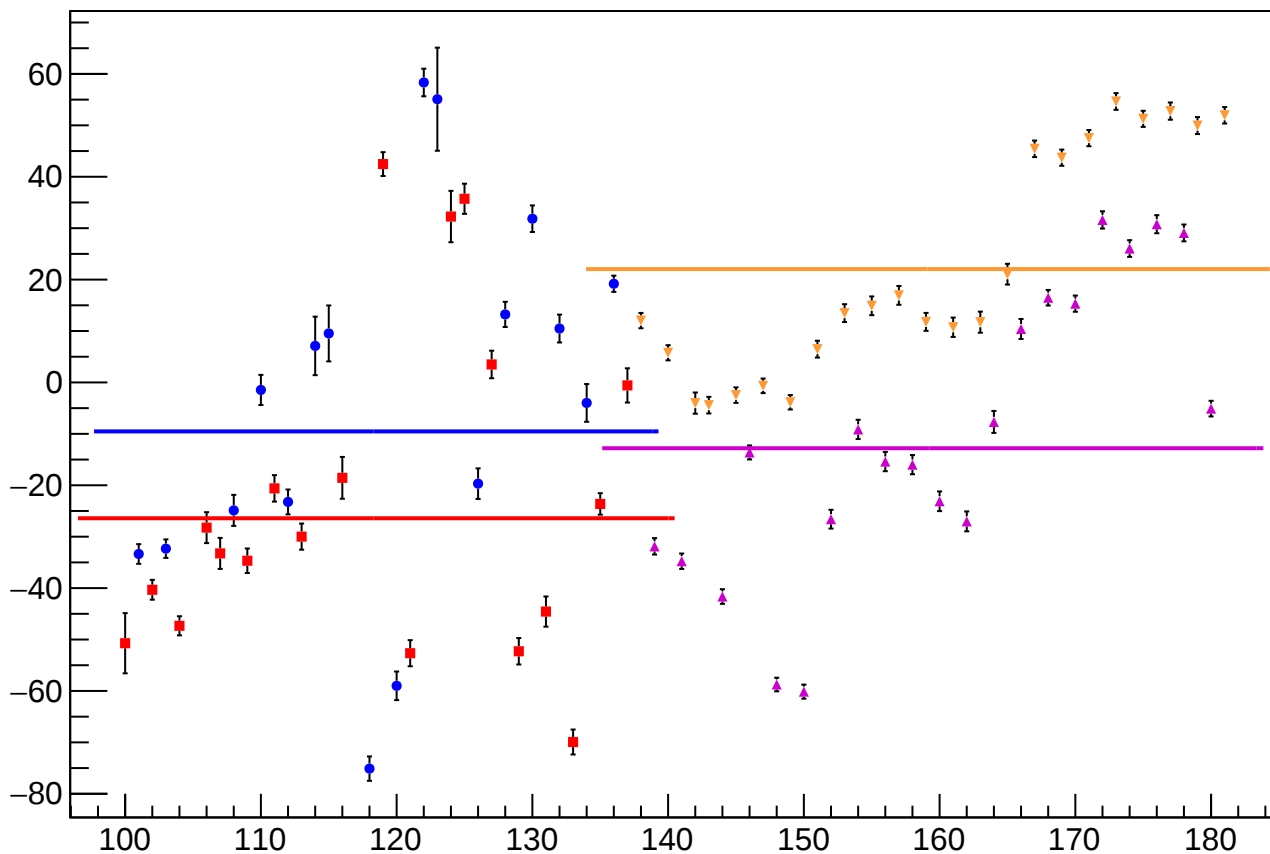
Right: 1550.033 $\pm$ 0.295 χ^2/NDF : 182488.2/35

In: 1690.305 $\pm$ 0.250 χ^2/NDF :411546.2/37

Out: 1679.912 $\pm$ 0.241 χ^2/NDF :439525.5/41

All: 1684.911 $\pm$ 0.174 χ^2/NDF : 851966.9/79

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -9.523 ± 0.627 χ^2/NDF : 2908.8/16

Left Out: 22.050 ± 0.344 χ^2/NDF : 4075.5/22

Right Out: -26.417 ± 0.604 χ^2/NDF : 2451.3/18

Left In: -12.797 ± 0.357 χ^2/NDF : 6722.8/20

Left: 5.282 ± 0.248 χ^2/NDF : 15746.7/43

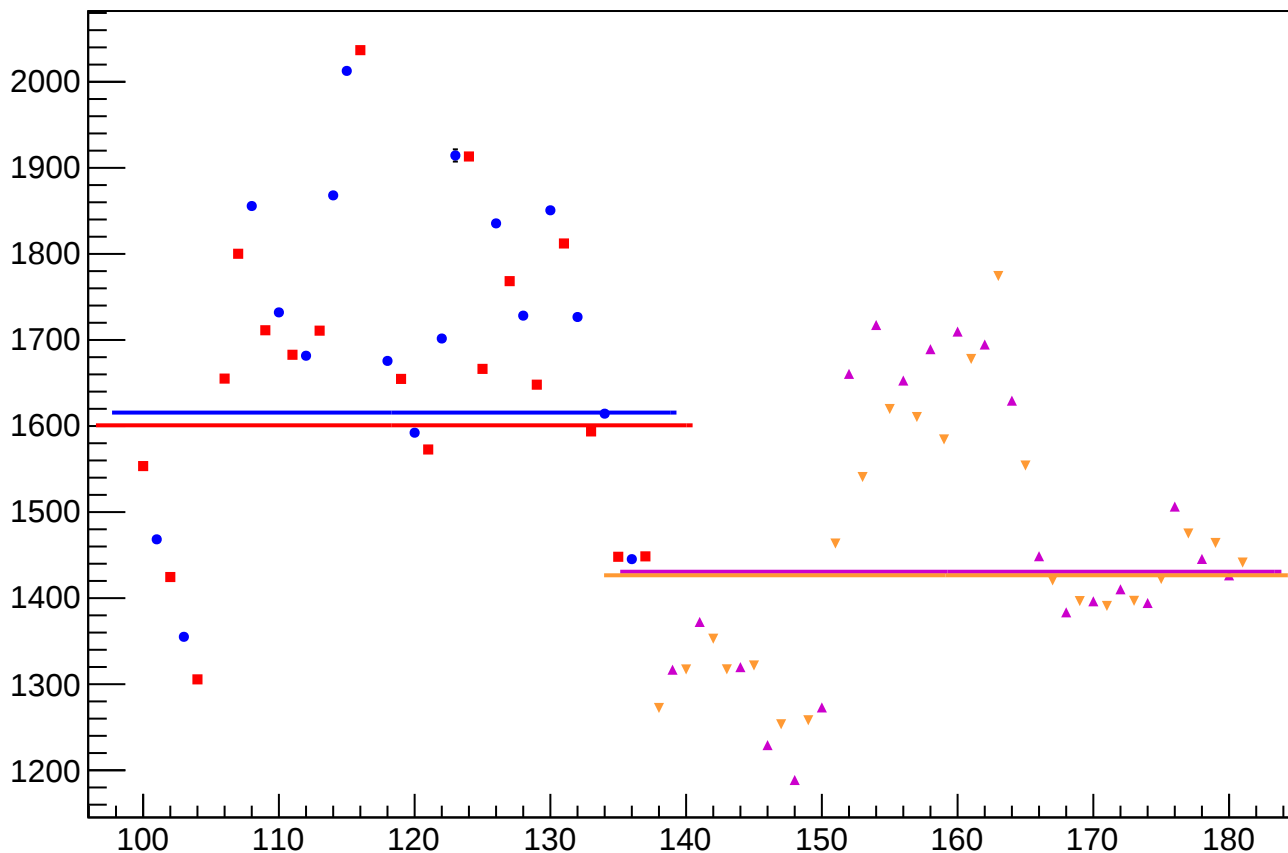
Right: -18.295 ± 0.435 χ^2/NDF : 5736.6/35

In: -11.997 ± 0.310 χ^2/NDF : 9652.2/37

Out: 10.189 ± 0.299 χ^2/NDF : 11395.3/41

All: -0.484 ± 0.215 χ^2/NDF : 23702.6/79

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1615.627 $\pm$ 0.444 χ^2 /NDF: 149190.0/16

Left Out: 1426.562 $\pm$ 0.243 χ^2 /NDF: 287839.6/22

Right Out: 1600.836 $\pm$ 0.427 χ^2 /NDF: 153528.6/18

Left In: 1430.693 $\pm$ 0.252 χ^2 /NDF: 413097.5/20

Left: 1428.550 $\pm$ 0.175 χ^2 /NDF: 701076.1/43

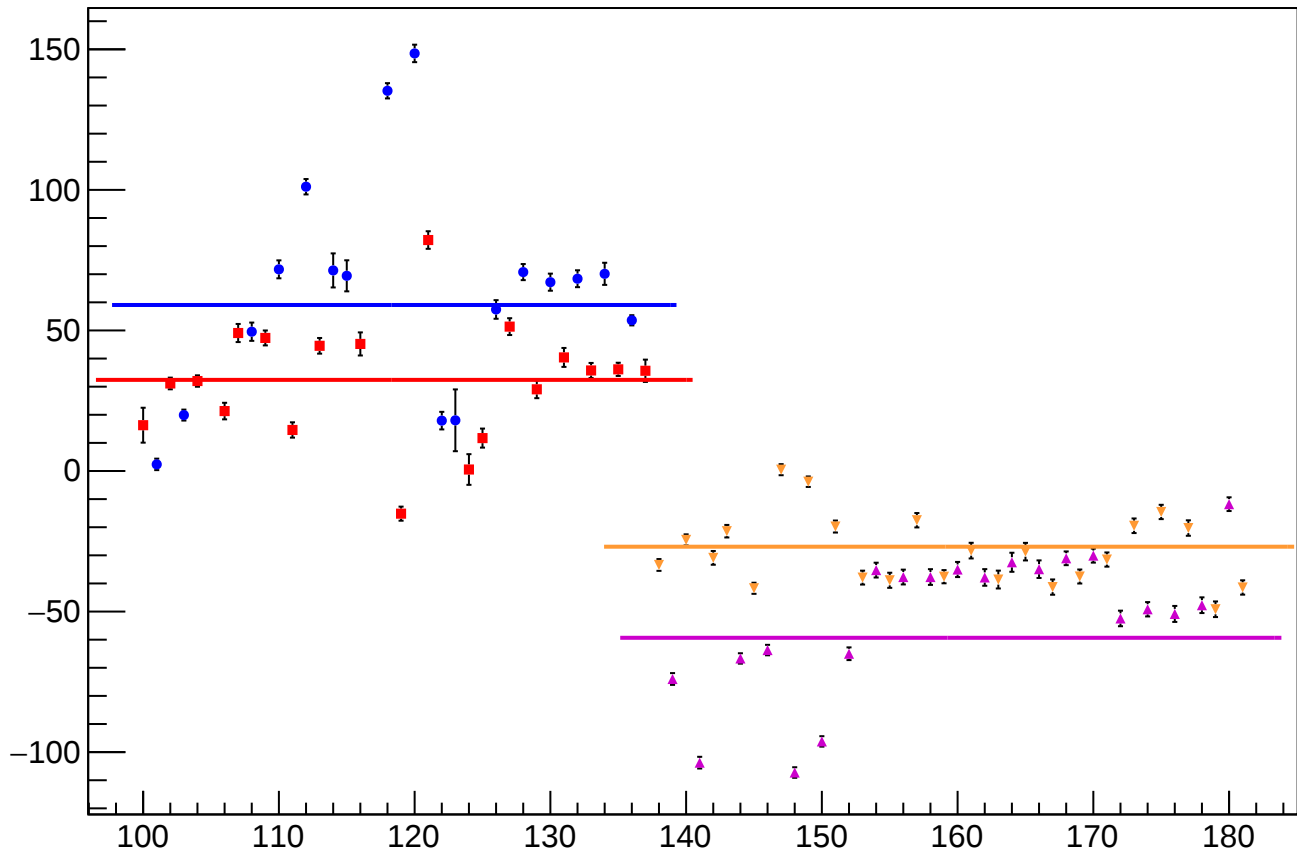
Right: 1607.947 $\pm$ 0.308 χ^2 /NDF: 303295.8/35

In: 1475.891 $\pm$ 0.219 χ^2 /NDF: 693599.5/37

Out: 1469.211 $\pm$ 0.211 χ^2 /NDF: 567254.8/41

All: 1472.425 $\pm$ 0.152 χ^2 /NDF: 1261335.8/79

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 59.057 ± 0.700 $\chi^2/\text{NDF}: 3293.2/16$

Left Out: -26.927 ± 0.500 $\chi^2/\text{NDF}: 704.8/22$

Right Out: 32.417 ± 0.667 $\chi^2/\text{NDF}: 888.1/18$

Left In: -59.329 ± 0.520 $\chi^2/\text{NDF}: 2745.2/20$

Left: -42.480 ± 0.360 $\chi^2/\text{NDF}: 5469.7/43$

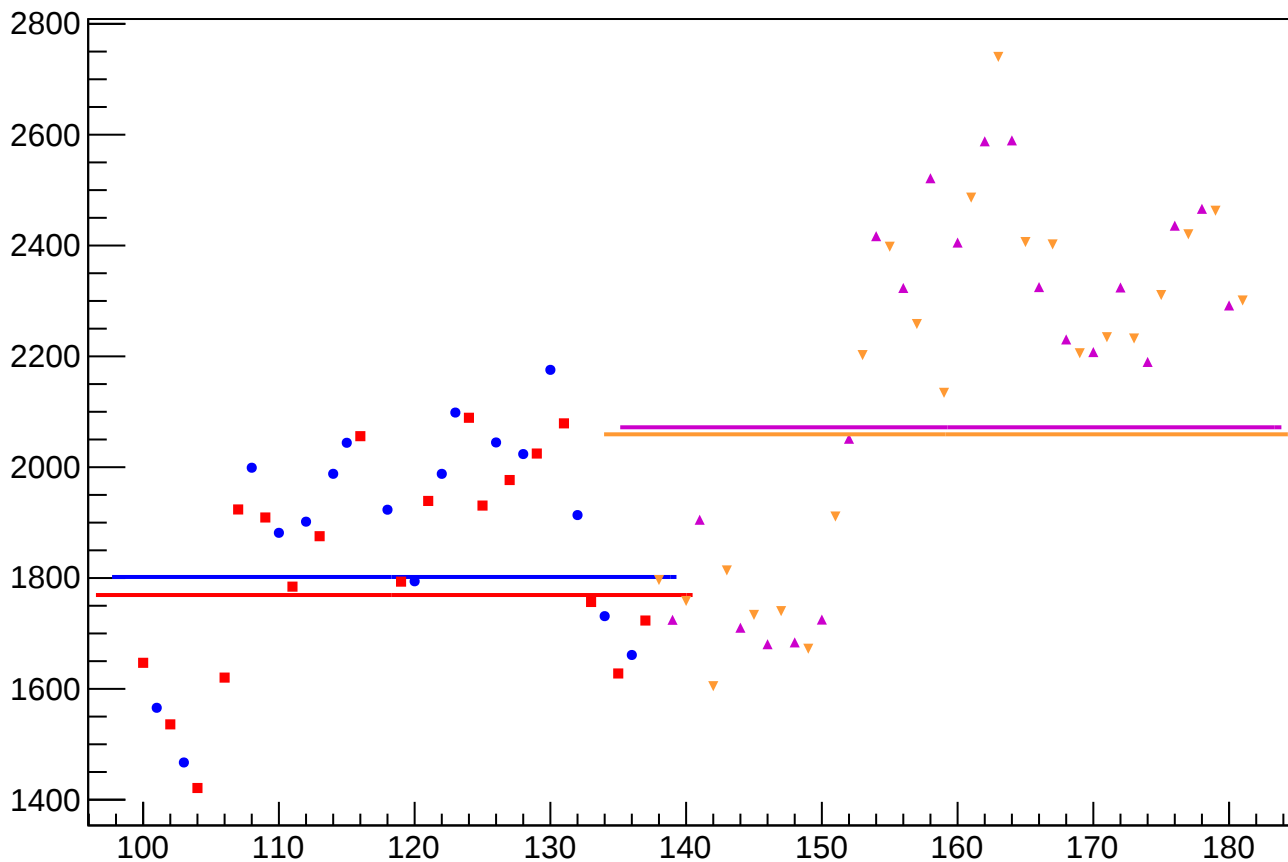
Right: 45.094 ± 0.483 $\chi^2/\text{NDF}: 4939.4/35$

In: -17.277 ± 0.417 $\chi^2/\text{NDF}: 24456.9/37$

Out: -5.621 ± 0.400 $\chi^2/\text{NDF}: 6660.2/41$

All: -11.199 ± 0.289 $\chi^2/\text{NDF}: 31523.6/79$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1801.920 $\pm$ 0.495 χ^2 /NDF: 183555.8/16

Left Out: 2059.350 $\pm$ 0.353 χ^2 /NDF: 760604.5/22

Right Out: 1769.354 $\pm$ 0.472 χ^2 /NDF: 177813.0/18

Left In: 2072.023 $\pm$ 0.368 χ^2 /NDF: 768090.5/20

Left: 2065.433 $\pm$ 0.255 χ^2 /NDF: 1529313.0/43

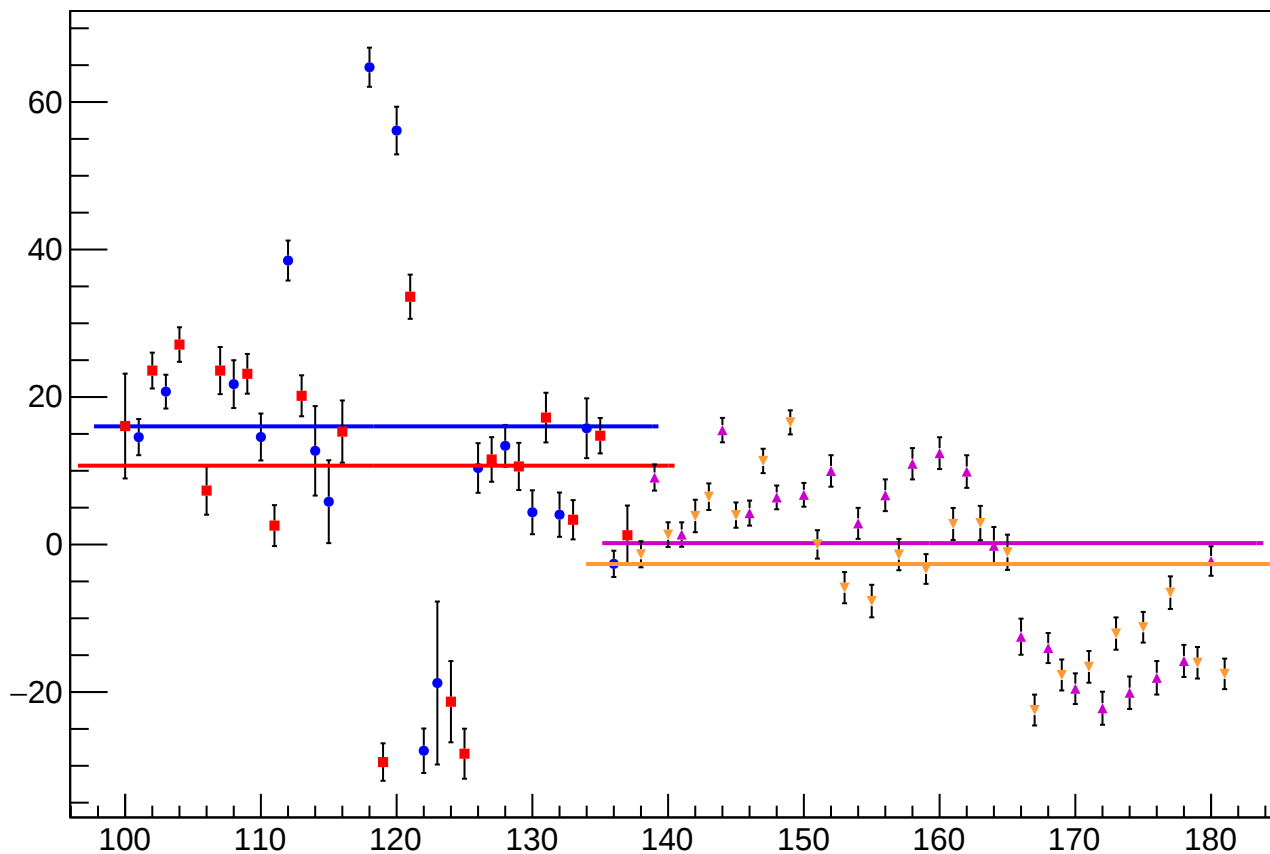
Right: 1784.851 $\pm$ 0.342 χ^2 /NDF: 363634.8/35

In: 1976.079 $\pm$ 0.295 χ^2 /NDF: 1143400.2/37

Out: 1955.235 $\pm$ 0.283 χ^2 /NDF: 1180430.6/41

All: 1965.210 $\pm$ 0.204 χ^2 /NDF: 2326430.9/79

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 16.023 $\pm$ 0.723 χ^2 /NDF: 938.1/16

Left Out: -2.643 $\pm$ 0.416 χ^2 /NDF: 599.7/22

Right Out: 10.695 $\pm$ 0.694 χ^2 /NDF: 632.7/18

Left In: 0.192 $\pm$ 0.433 χ^2 /NDF: 727.2/20

Left: -1.283 $\pm$ 0.300 χ^2 /NDF: 1349.2/43

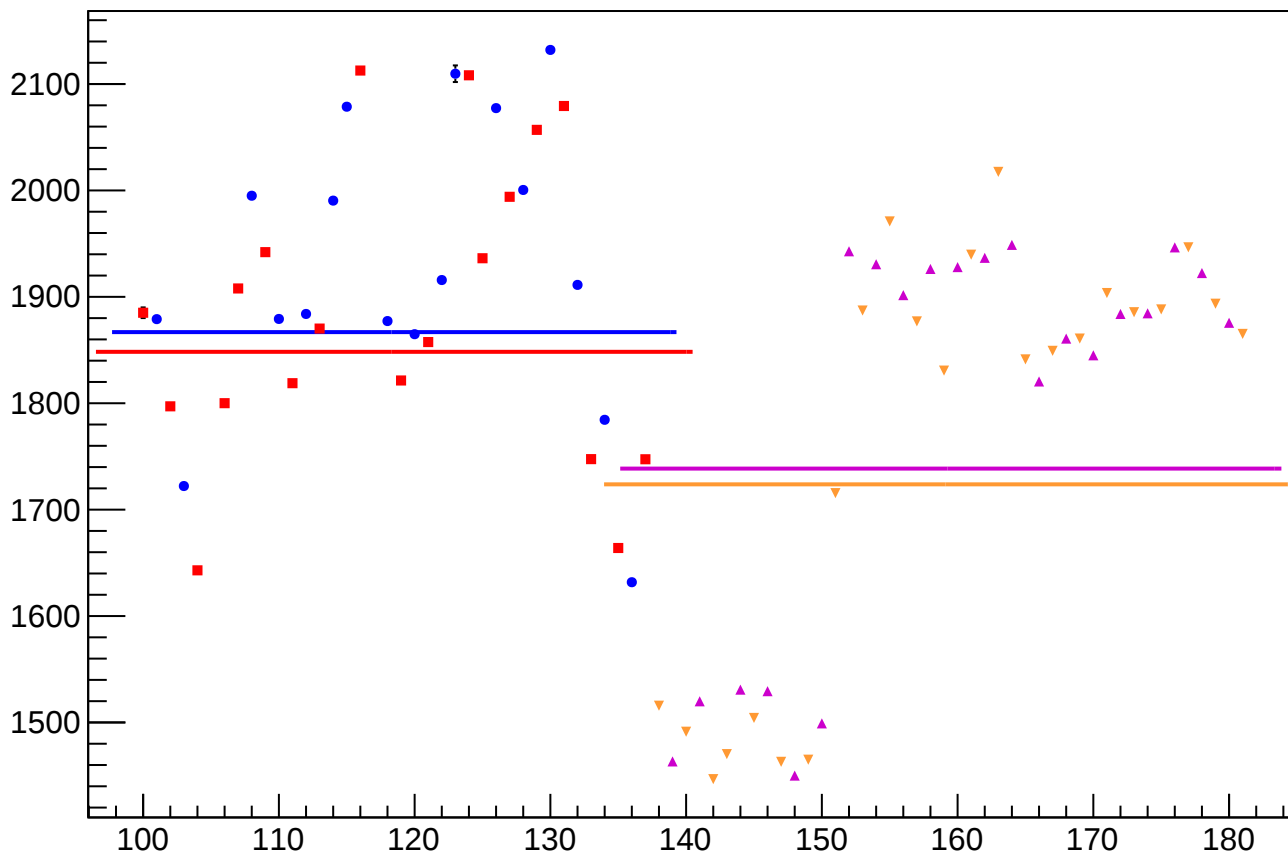
Right: 13.253 $\pm$ 0.501 χ^2 /NDF: 1599.1/35

In: 4.381 $\pm$ 0.372 χ^2 /NDF: 2018.2/37

Out: 0.881 $\pm$ 0.357 χ^2 /NDF: 1503.9/41

All: 2.560 $\pm$ 0.257 χ^2 /NDF: 3568.2/79

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1866.855 $\pm$ 0.511 χ^2 /NDF: 80657.5/16

Left Out: 1723.781 $\pm$ 0.294 χ^2 /NDF: 474747.8/22

Right Out: 1848.333 $\pm$ 0.491 χ^2 /NDF: 72586.9/18

Left In: 1738.586 $\pm$ 0.307 χ^2 /NDF: 432677.1/20

Left: 1730.881 $\pm$ 0.212 χ^2 /NDF: 908638.9/43

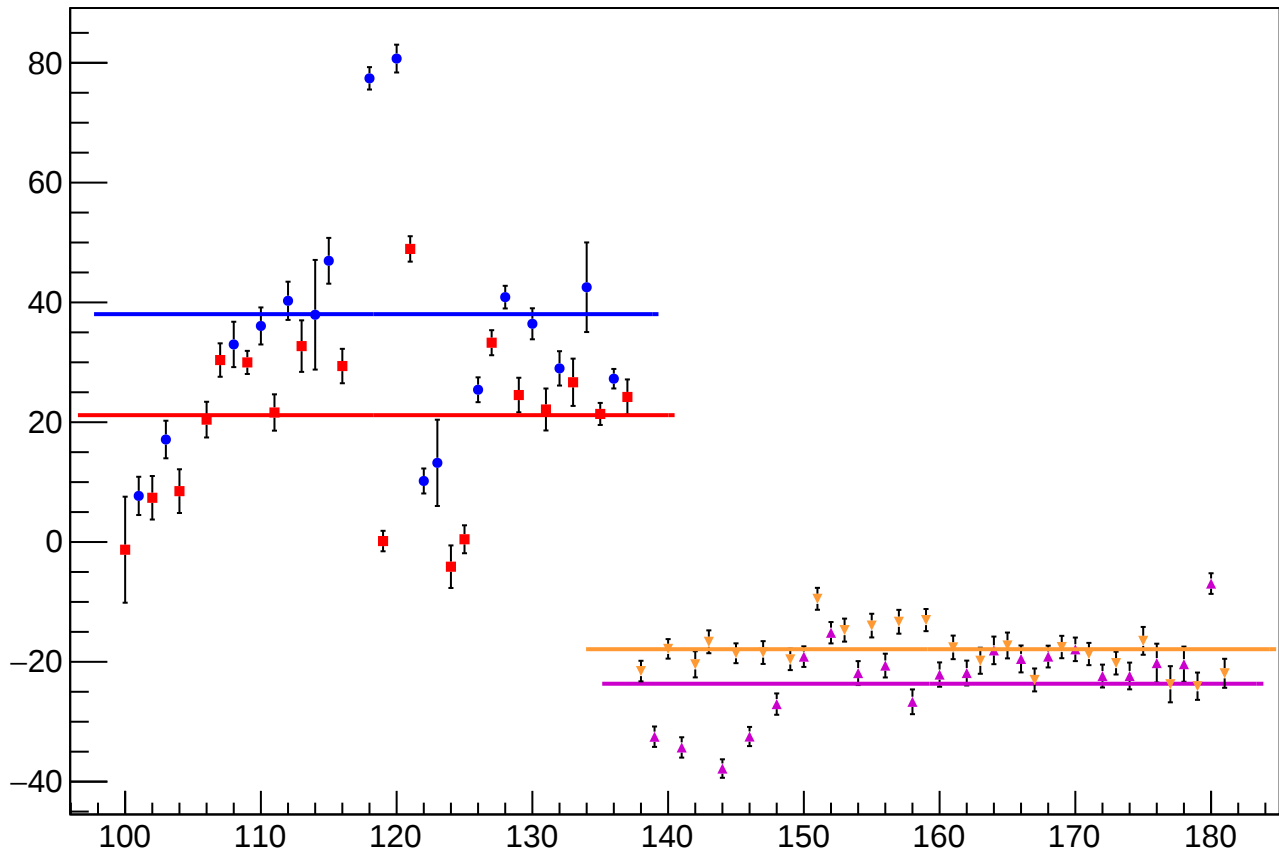
Right: 1857.225 $\pm$ 0.354 χ^2 /NDF: 153927.5/35

In: 1772.524 $\pm$ 0.263 χ^2 /NDF: 559668.6/37

Out: 1756.688 $\pm$ 0.252 χ^2 /NDF: 594676.1/41

All: 1764.284 $\pm$ 0.182 χ^2 /NDF: 1156233.0/79

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 38.041 ± 0.639 χ^2/NDF : 1207.6/16

Left Out: -17.893 ± 0.408 χ^2/NDF : 71.6/22

Right Out: 21.178 ± 0.610 χ^2/NDF : 570.0/18

Left In: -23.657 ± 0.421 χ^2/NDF : 341.9/20

Left: -20.691 ± 0.293 χ^2/NDF : 510.2/43

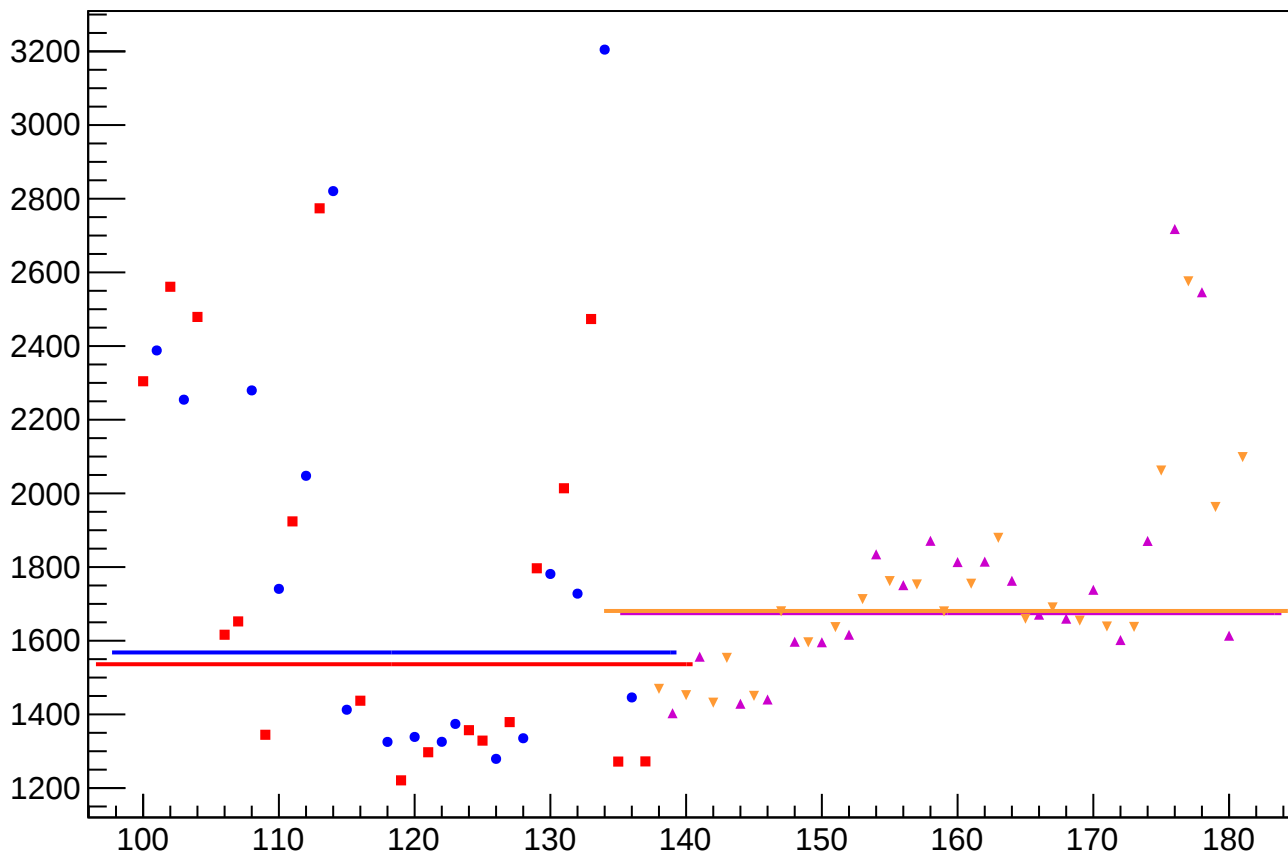
Right: 29.215 ± 0.441 χ^2/NDF : 2142.4/35

In: -5.002 ± 0.351 χ^2/NDF : 8058.3/37

Out: -5.788 ± 0.339 χ^2/NDF : 3477.1/41

All: -5.408 ± 0.244 χ^2/NDF : 11538.0/79

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1568.172 $\pm$ 0.452 χ^2/NDF : 668072.7/16

Left Out: 1680.820 $\pm$ 0.289 χ^2/NDF : 497938.3/22

Right Out: 1536.208 $\pm$ 0.431 χ^2/NDF : 882312.9/18

Left In: 1674.798 $\pm$ 0.297 χ^2/NDF : 626267.7/20

Left: 1677.897 $\pm$ 0.207 χ^2/NDF : 1124417.1/43

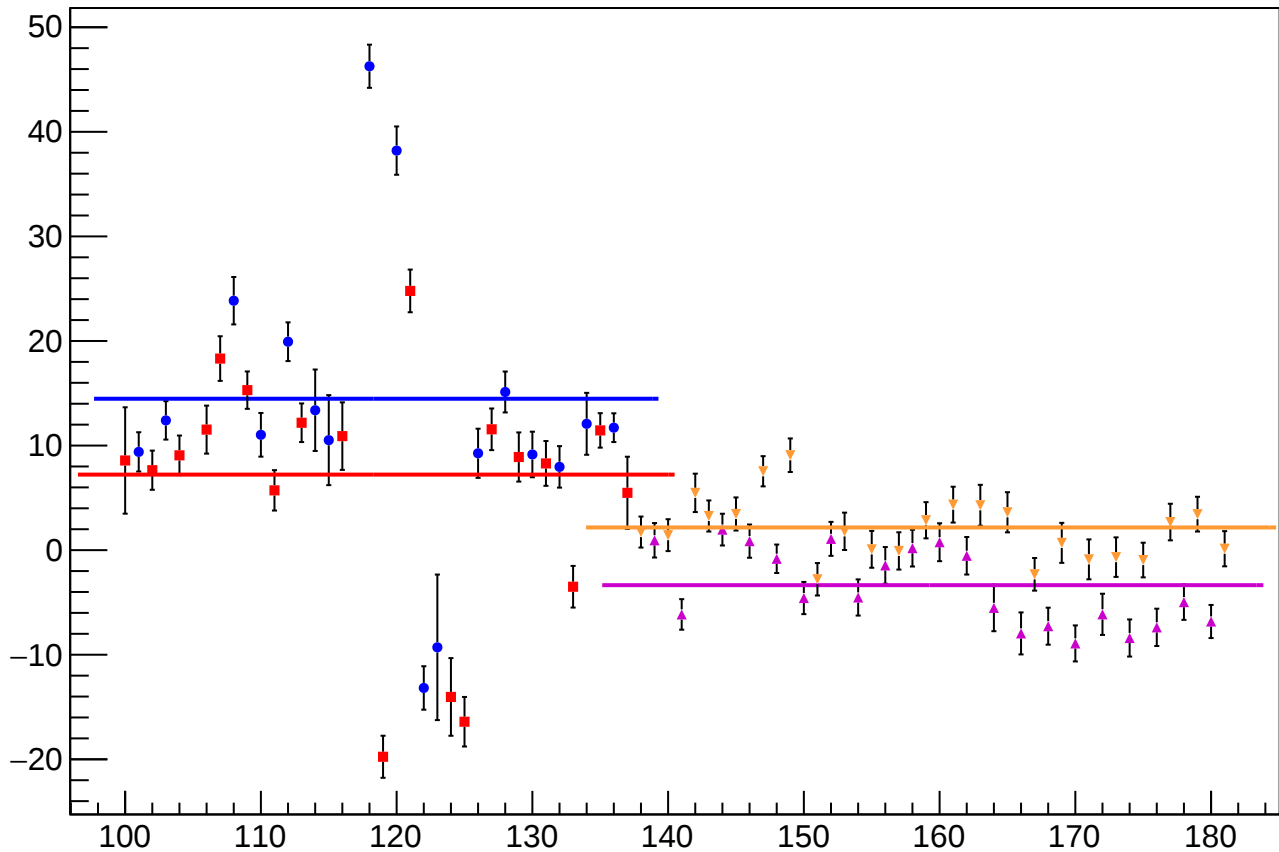
Right: 1551.443 $\pm$ 0.312 χ^2/NDF : 1553006.8/35

In: 1642.558 $\pm$ 0.248 χ^2/NDF : 1333218.8/37

Out: 1636.015 $\pm$ 0.240 χ^2/NDF : 1457940.8/41

All: 1639.174 $\pm$ 0.173 χ^2/NDF : 2791518.6/79

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.477 +/- 0.524 χ^2/NDF : 596.5/16

Left Out: 2.169 +/- 0.351 χ^2/NDF : 73.2/22

Right Out: 7.223 +/- 0.495 χ^2/NDF : 489.0/18

Left In: -3.349 +/- 0.369 χ^2/NDF : 97.0/20

Left: -0.452 +/- 0.254 χ^2/NDF : 287.6/43

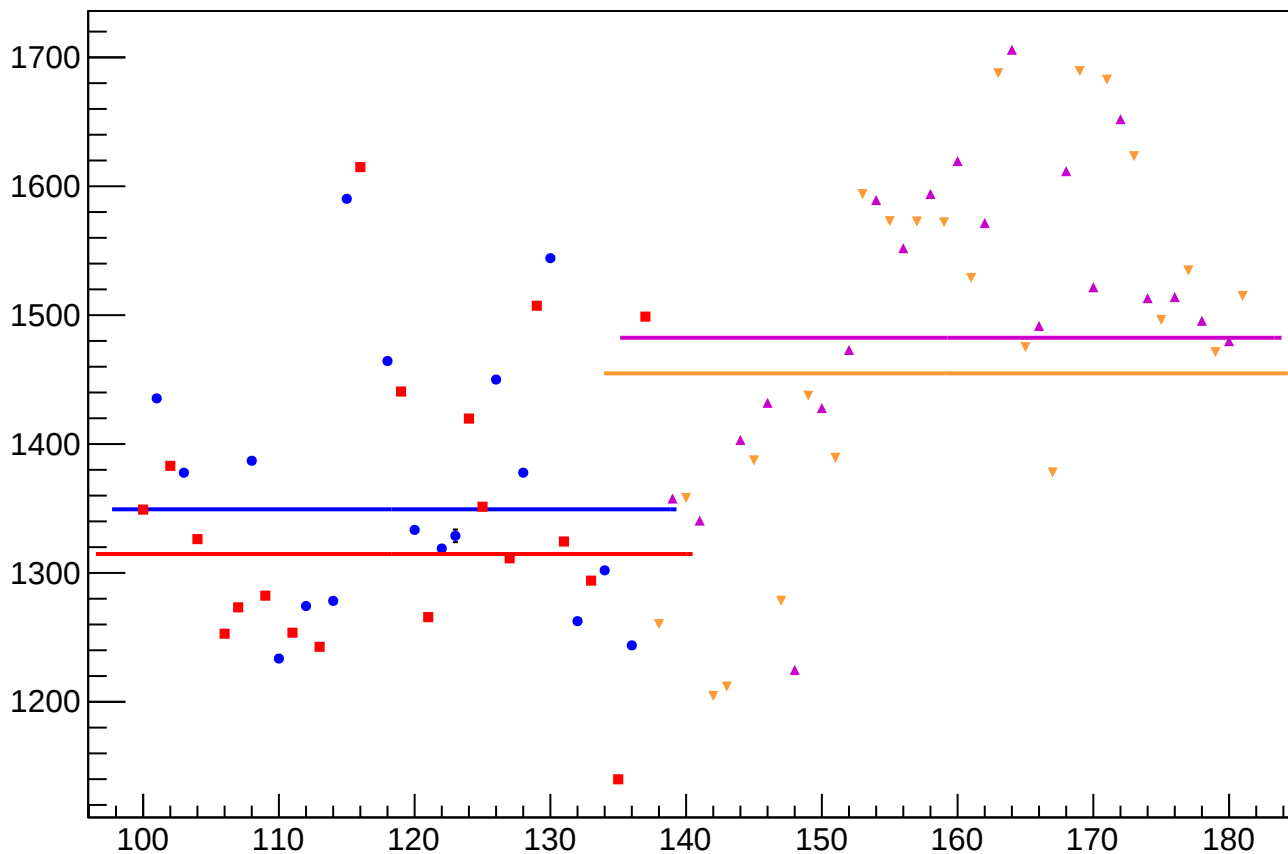
Right: 10.645 +/- 0.360 χ^2/NDF : 1186.7/35

In: 2.558 +/- 0.302 χ^2/NDF : 1467.2/37

Out: 3.859 +/- 0.286 χ^2/NDF : 631.5/41

All: 3.242 +/- 0.208 χ^2/NDF : 2108.5/79

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.357 $\pm$ 0.371 χ^2 /NDF: 64580.7/16

Left Out: 1454.865 $\pm$ 0.248 χ^2 /NDF:329267.3/22

Right Out: 1314.682 $\pm$ 0.350 χ^2 /NDF: 80983.6/18

Left In: 1482.461 $\pm$ 0.261 χ^2 /NDF:195271.0/20

Left: 1467.975 $\pm$ 0.180 χ^2 /NDF: 530412.0/43

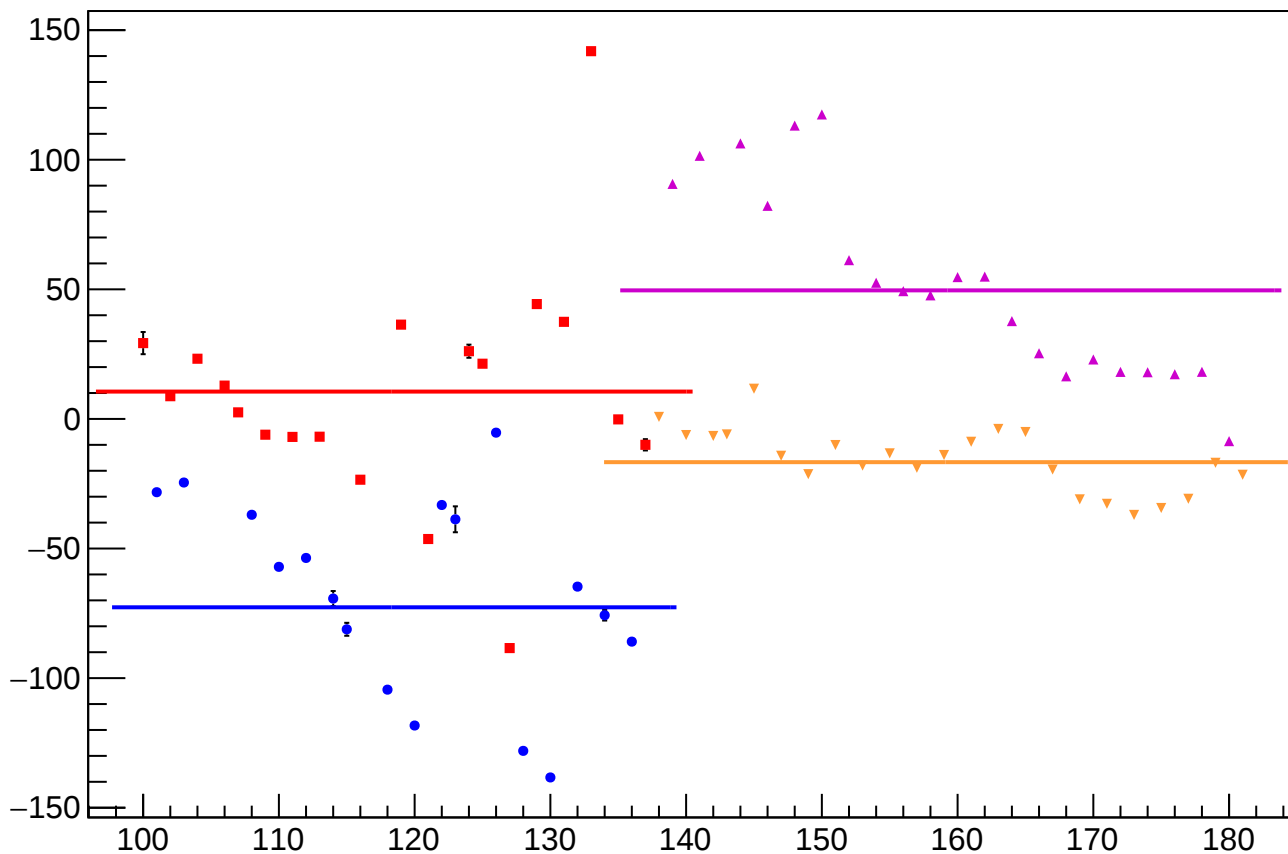
Right: 1331.041 $\pm$ 0.255 χ^2 /NDF: 150189.5/35

In: 1438.355 $\pm$ 0.213 χ^2 /NDF:346114.3/37

Out: 1408.001 $\pm$ 0.202 χ^2 /NDF:516916.3/41

All: 1422.388 $\pm$ 0.147 χ^2 /NDF: 873681.8/79

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.674 +/- 0.363 χ^2/NDF : 11603.9/16

Left Out: -16.678 +/- 0.218 χ^2/NDF : 3126.8/22

Right Out: 10.552 +/- 0.353 χ^2/NDF : 18145.5/18

Left In: 49.599 +/- 0.227 χ^2/NDF : 25042.4/20

Left: 15.111 +/- 0.157 χ^2/NDF : 72631.6/43

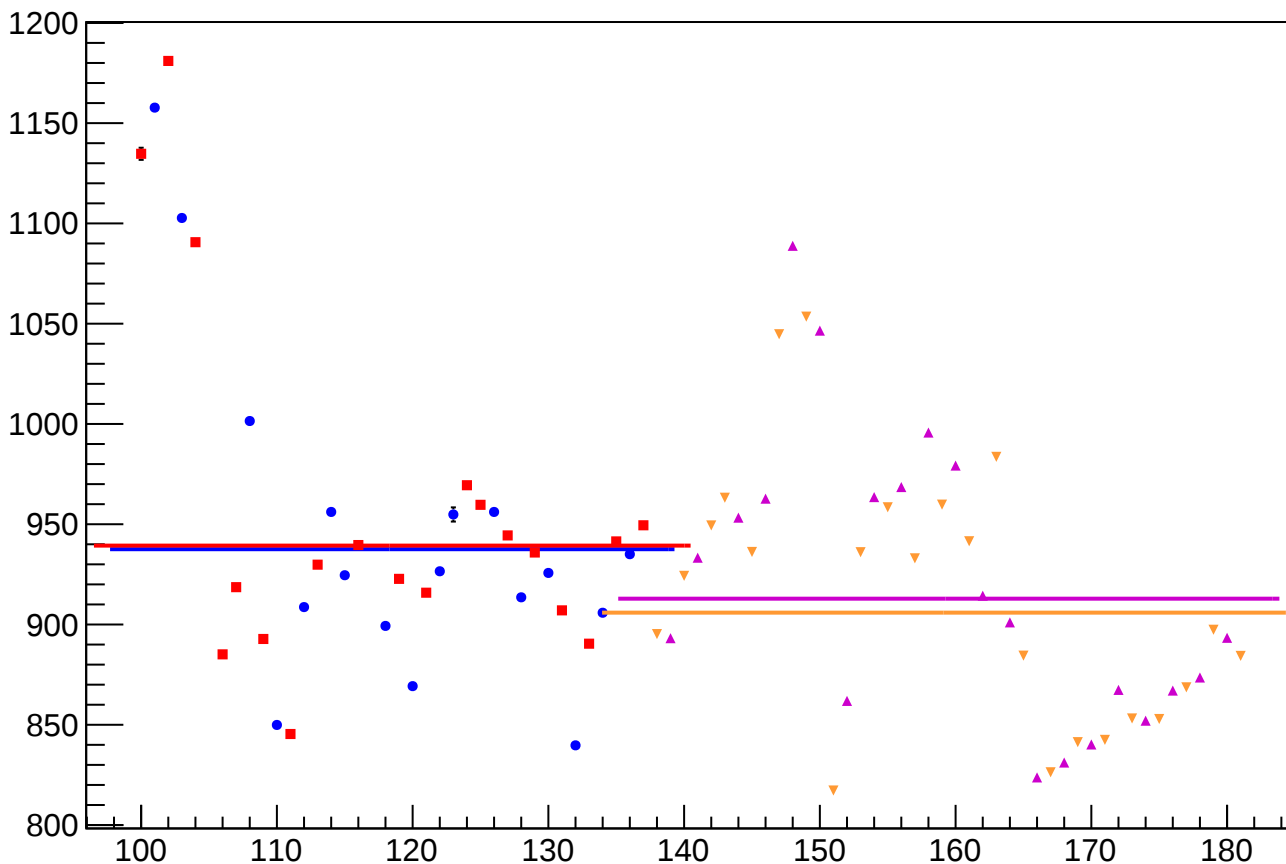
Right: -29.893 +/- 0.253 χ^2/NDF : 56765.3/35

In: 15.287 +/- 0.192 χ^2/NDF : 118254.5/37

Out: -9.176 +/- 0.185 χ^2/NDF : 25583.8/41

All: 2.601 +/- 0.133 χ^2/NDF : 152229.8/79

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.550 $\pm$ 0.257 χ^2/NDF : 98231.3/16

Left Out: 905.917 $\pm$ 0.154 χ^2/NDF :160919.4/22

Right Out: 939.341 $\pm$ 0.250 χ^2/NDF : 90084.9/18

Left In: 912.878 $\pm$ 0.160 χ^2/NDF :174258.4/20

Left: 909.256 $\pm$ 0.111 χ^2/NDF : 336158.6/43

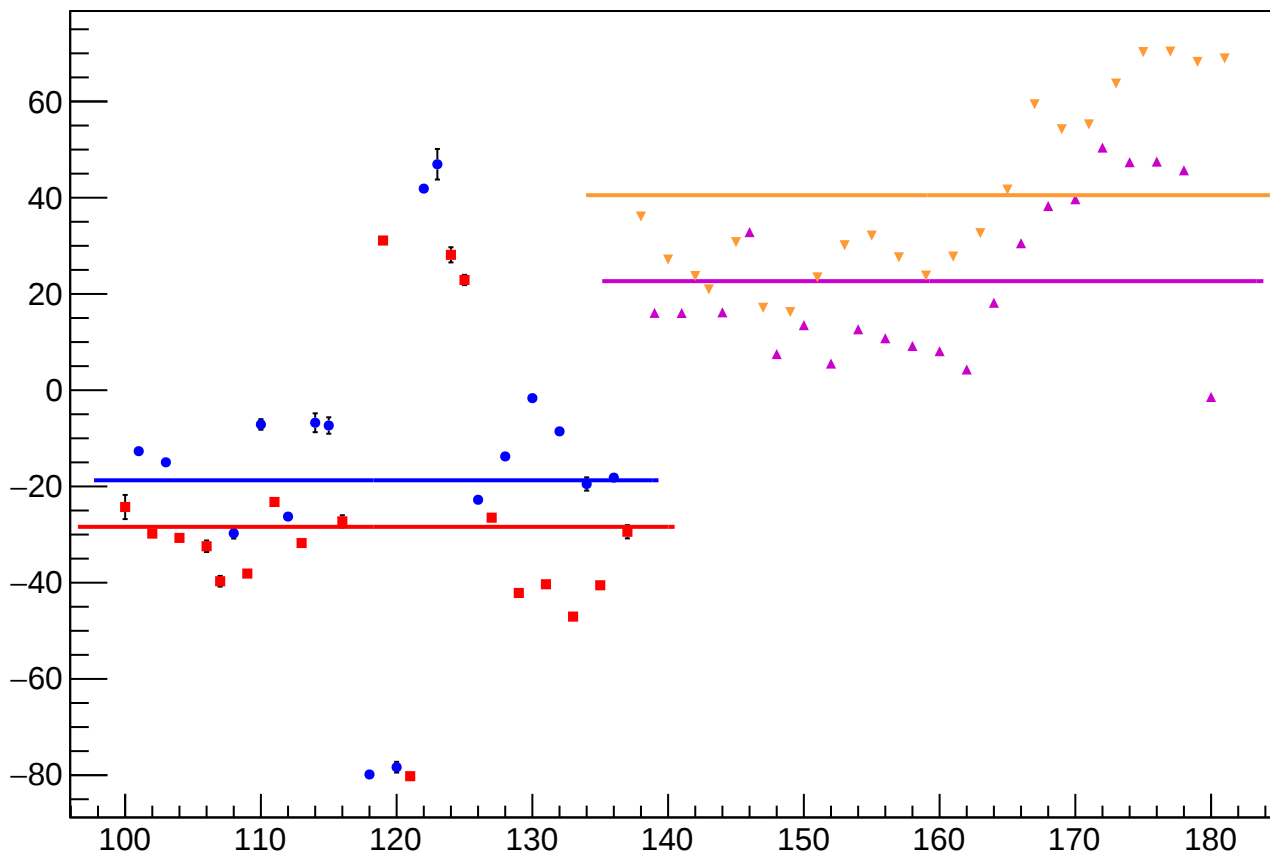
Right: 938.471 $\pm$ 0.179 χ^2/NDF : 188341.3/35

In: 919.801 $\pm$ 0.136 χ^2/NDF :279135.1/37

Out: 915.126 $\pm$ 0.131 χ^2/NDF :263996.1/41

All: 917.377 $\pm$ 0.094 χ^2/NDF : 543744.1/79

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -18.723 ± 0.243 χ^2/NDF : 12999.6/16

Left Out: 40.525 ± 0.172 χ^2/NDF : 11991.4/22

Right Out: -28.395 ± 0.236 χ^2/NDF : 12424.6/18

Left In: 22.662 ± 0.180 χ^2/NDF : 8064.3/20

Left: 31.982 ± 0.125 χ^2/NDF : 25190.3/43

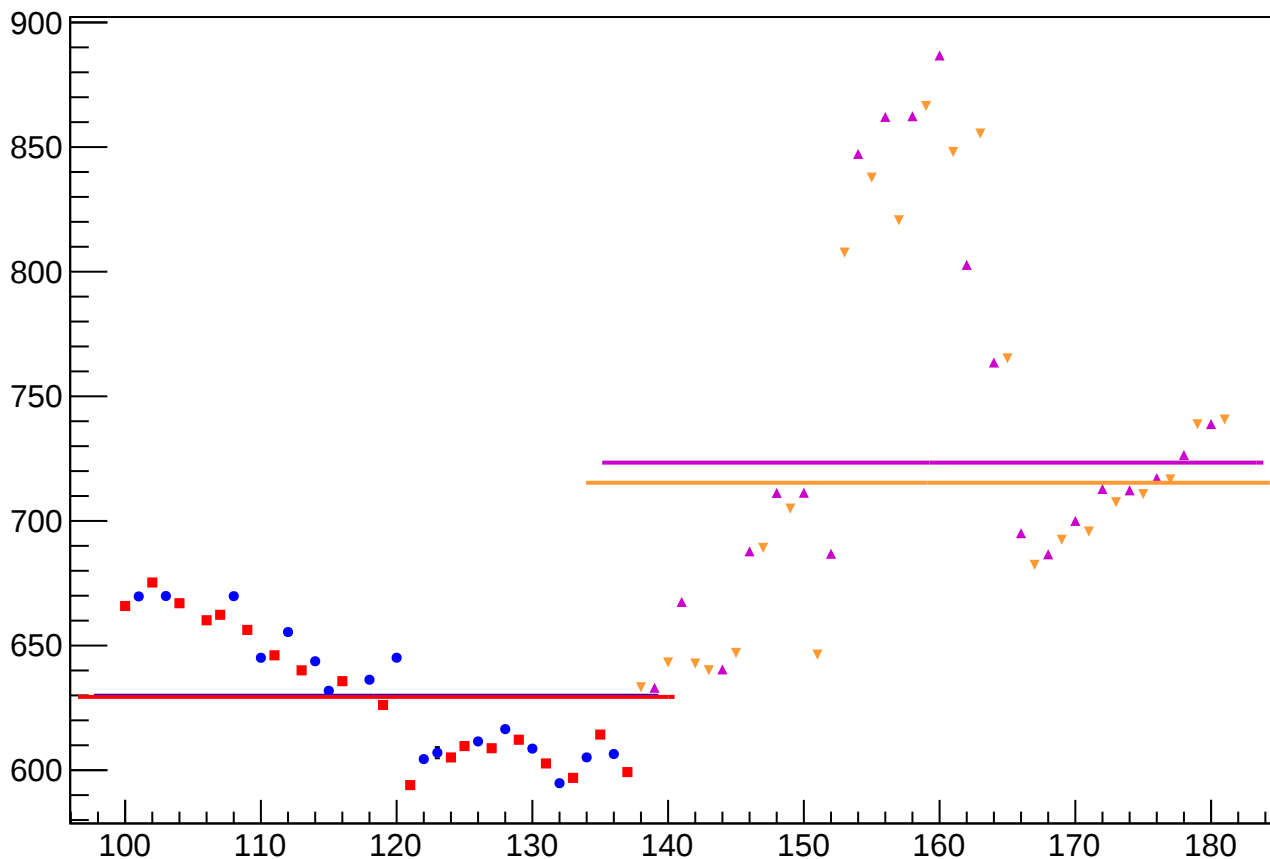
Right: -23.705 ± 0.169 χ^2/NDF : 26239.5/35

In: 8.002 ± 0.145 χ^2/NDF : 39778.1/37

Out: 16.528 ± 0.139 χ^2/NDF : 80064.3/41

All: 12.430 ± 0.100 χ^2/NDF : 121646.0/79

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.857 $\pm$ 0.172 χ^2 /NDF: 23252.7/16

Left Out: 715.321 $\pm$ 0.122 χ^2 /NDF:336160.4/22

Right Out: 629.413 $\pm$ 0.167 χ^2 /NDF: 25484.3/18

Left In: 723.398 $\pm$ 0.127 χ^2 /NDF:279138.0/20

Left: 719.184 $\pm$ 0.088 χ^2 /NDF: 617398.2/43

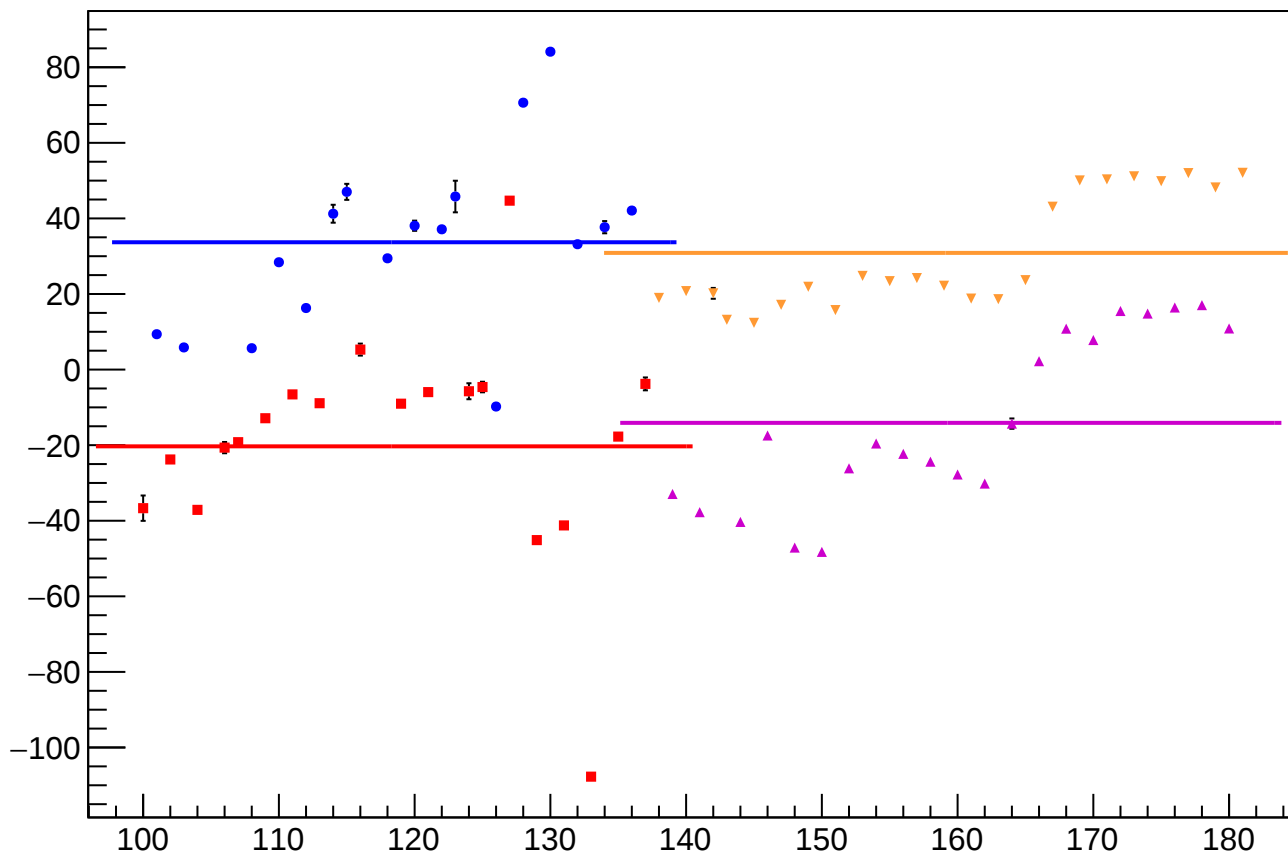
Right: 629.628 $\pm$ 0.120 χ^2 /NDF: 48740.5/35

In: 690.262 $\pm$ 0.102 χ^2 /NDF:493605.8/37

Out: 685.409 $\pm$ 0.098 χ^2 /NDF:534575.7/41

All: 687.741 $\pm$ 0.071 χ^2 /NDF: 1029349.9/79

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.692+/-0.300 χ^2/NDF : 6428.2/16

Left Out: 30.876+/-0.244 χ^2/NDF : 3735.0/22

Right Out: -20.314+/-0.293 χ^2/NDF : 11278.0/18

Left In: -14.097+/-0.253 χ^2/NDF : 7916.2/20

Left: 9.196+/-0.176 χ^2/NDF : 27985.5/43

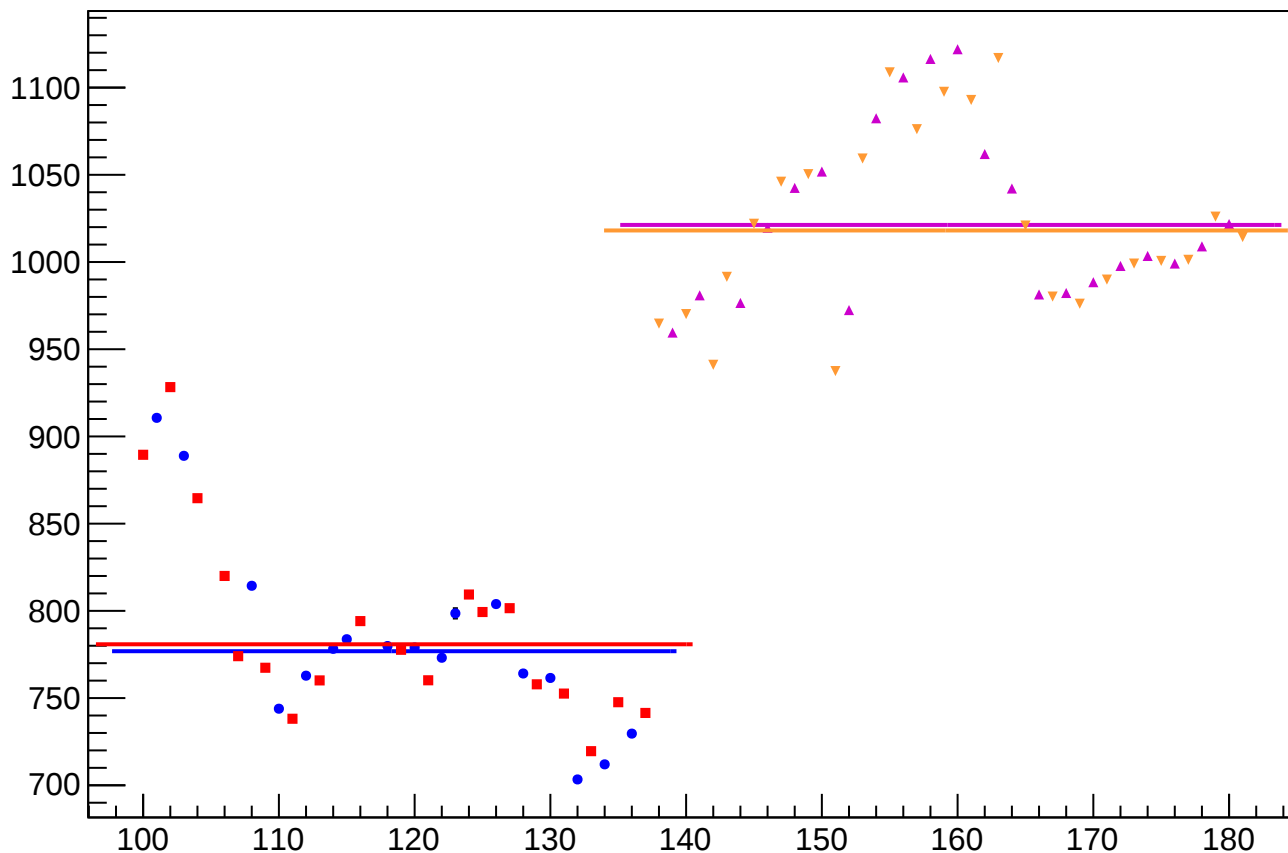
Right: 6.016+/-0.210 χ^2/NDF : 34265.5/35

In: 5.754+/-0.194 χ^2/NDF : 29136.6/37

Out: 9.884+/-0.188 χ^2/NDF : 33014.6/41

All: 7.884+/-0.135 χ^2/NDF : 62385.9/79

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 776.869 $\pm$ 0.212 χ^2 /NDF: 67447.3/16

Left Out: 1018.095 $\pm$ 0.173 χ^2 /NDF: 83140.0/22

Right Out: 780.840 $\pm$ 0.207 χ^2 /NDF: 57297.9/18

Left In: 1021.267 $\pm$ 0.179 χ^2 /NDF: 68799.7/20

Left: 1019.624 $\pm$ 0.124 χ^2 /NDF: 152102.3/43

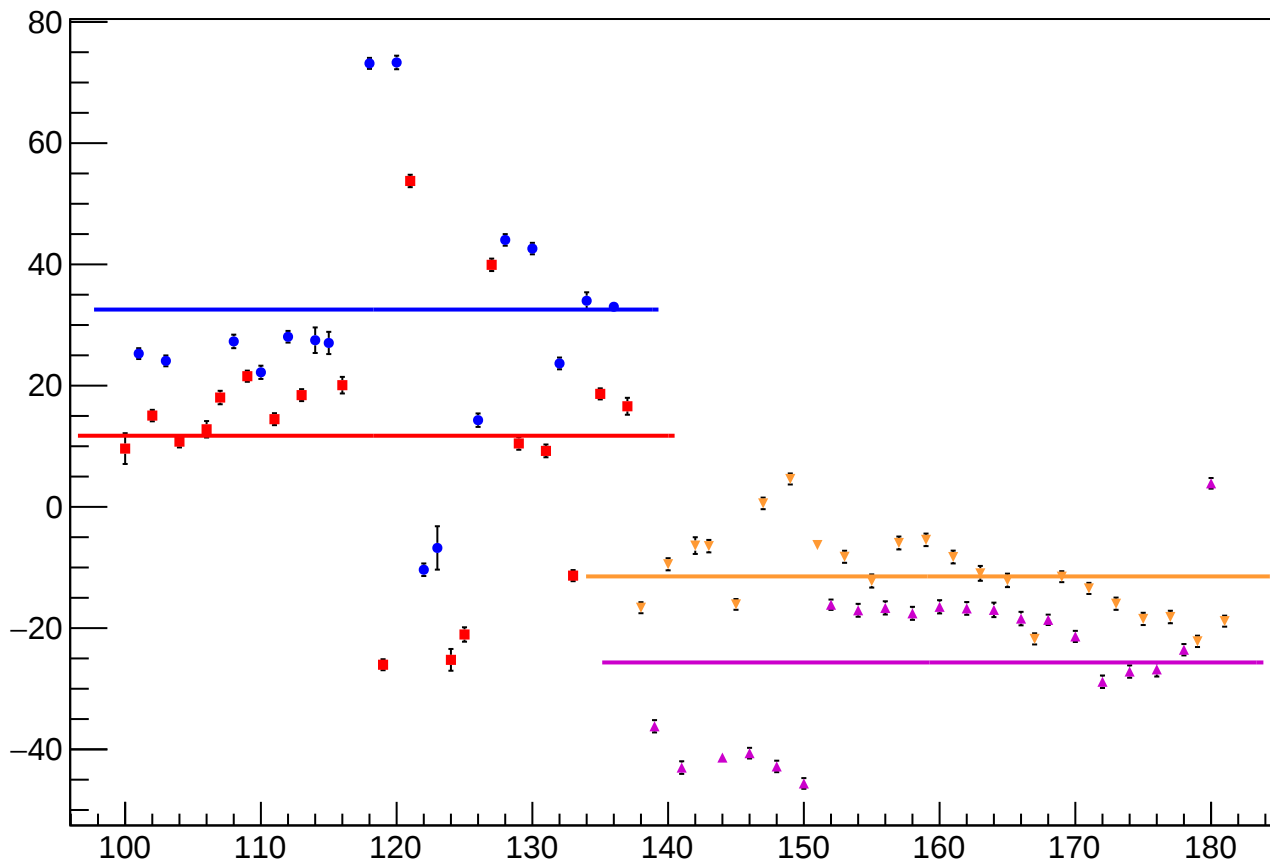
Right: 778.904 $\pm$ 0.148 χ^2 /NDF: 124924.2/35

In: 919.748 $\pm$ 0.137 χ^2 /NDF: 909997.8/37

Out: 920.801 $\pm$ 0.133 χ^2 /NDF: 913845.1/41

All: 920.291 $\pm$ 0.095 χ^2 /NDF: 1823873.4/79

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.550 ± 0.253 χ^2/NDF : 6077.4/16

Left Out: -11.471 ± 0.206 χ^2/NDF : 1128.9/22

Right Out: 11.737 ± 0.247 χ^2/NDF : 6313.2/18

Left In: -25.664 ± 0.214 χ^2/NDF : 3660.6/20

Left: -18.292 ± 0.148 χ^2/NDF : 7074.6/43

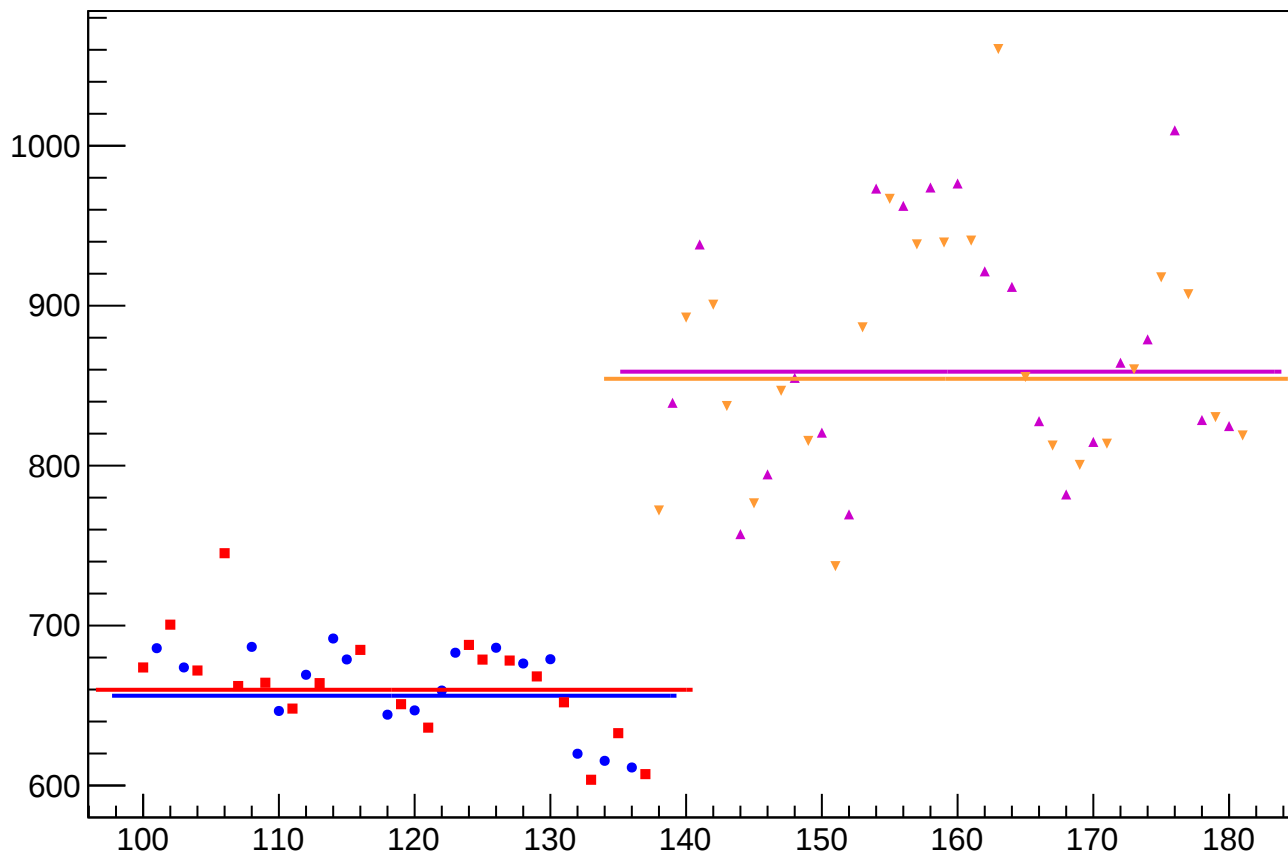
Right: 21.899 ± 0.177 χ^2/NDF : 15845.9/35

In: -1.418 ± 0.163 χ^2/NDF : 40560.7/37

Out: -1.978 ± 0.158 χ^2/NDF : 12642.0/41

All: -1.707 ± 0.114 χ^2/NDF : 53208.7/79

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 656.132 ± 0.179 χ^2/NDF : 23518.0/16

Left Out: 854.295 ± 0.146 χ^2/NDF : 233856.9/22

Right Out: 659.855 ± 0.175 χ^2/NDF : 28270.5/18

Left In: 858.748 ± 0.151 χ^2/NDF : 238103.5/20

Left: 856.435 ± 0.105 χ^2/NDF : 472410.4/43

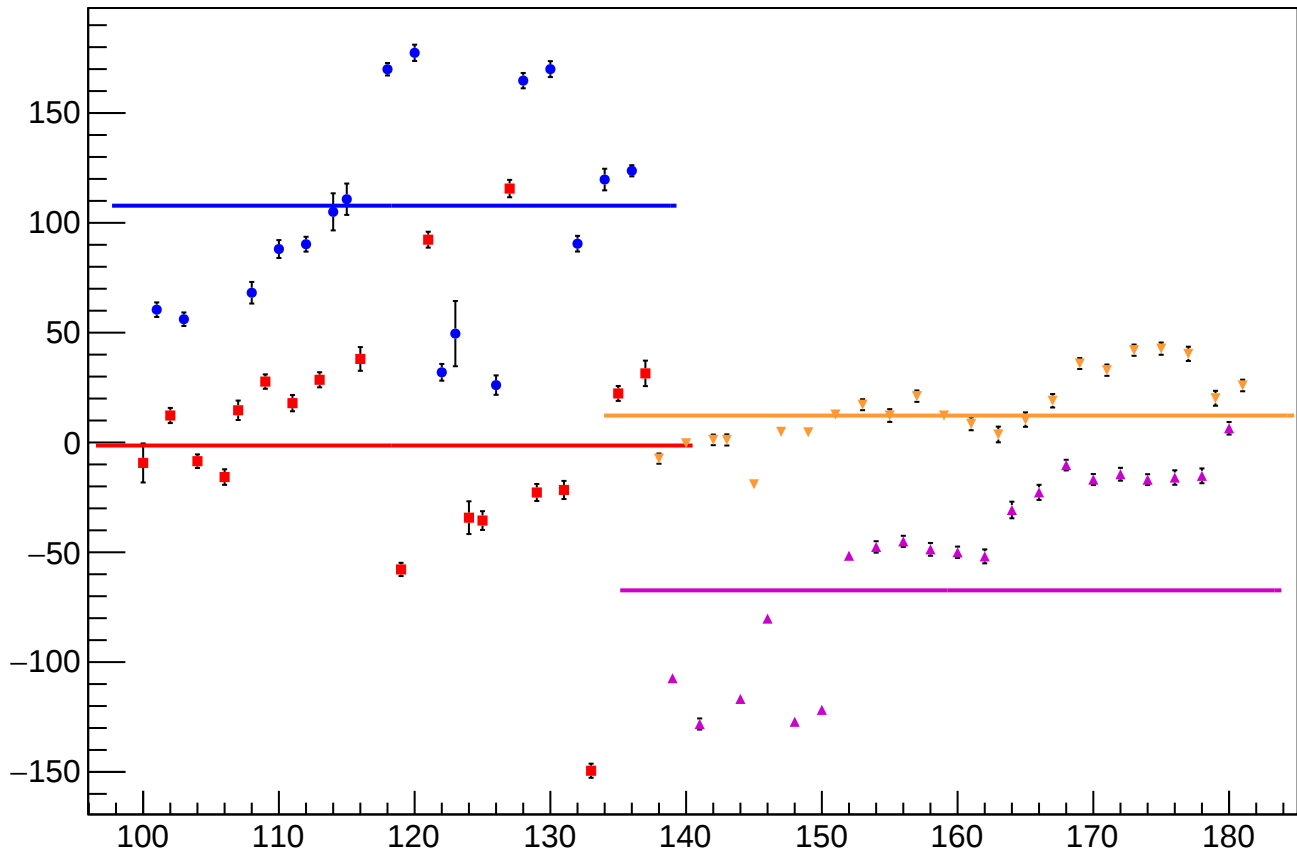
Right: 658.037 ± 0.125 χ^2/NDF : 52009.7/35

In: 774.357 ± 0.116 χ^2/NDF : 1008400.7/37

Out: 774.765 ± 0.112 χ^2/NDF : 992126.9/41

All: 774.567 ± 0.080 χ^2/NDF : 2000534.0/79

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.816 $\pm$ 0.923 χ^2 /NDF: 2815.8/16

Left Out: 12.255 $\pm$ 0.516 χ^2 /NDF: 964.1/22

Right Out: -1.388 $\pm$ 0.885 χ^2 /NDF: 4515.0/18

Left In: -67.331 $\pm$ 0.531 χ^2 /NDF: 7130.6/20

Left: -26.392 $\pm$ 0.370 χ^2 /NDF: 19662.8/43

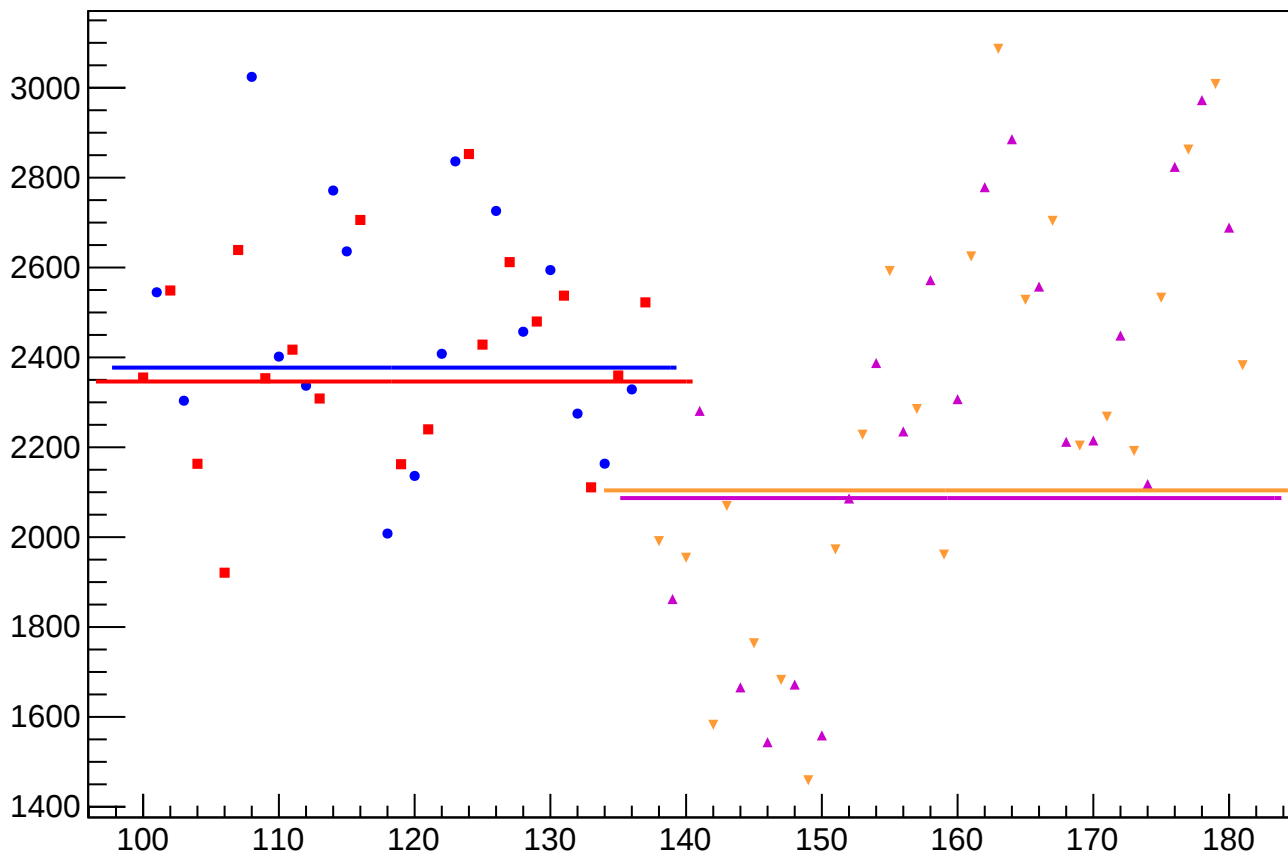
Right: 50.907 $\pm$ 0.639 χ^2 /NDF: 14624.3/35

In: -23.819 $\pm$ 0.460 χ^2 /NDF: 37004.3/37

Out: 8.797 $\pm$ 0.446 χ^2 /NDF: 5656.6/41

All: -6.987 $\pm$ 0.320 χ^2 /NDF: 45254.6/79

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2377.271+/-0.653 χ^2/NDF : 119441.2/16

Left Out: 2104.068+/-0.365 χ^2/NDF :1317341.6/22

Right Out: 2346.354+/-0.626 χ^2/NDF : 108612.6/18

Left In: 2086.985+/-0.375 χ^2/NDF :1326725.0/20

Left: 2095.772+/-0.262 χ^2/NDF : 2645132.6/43

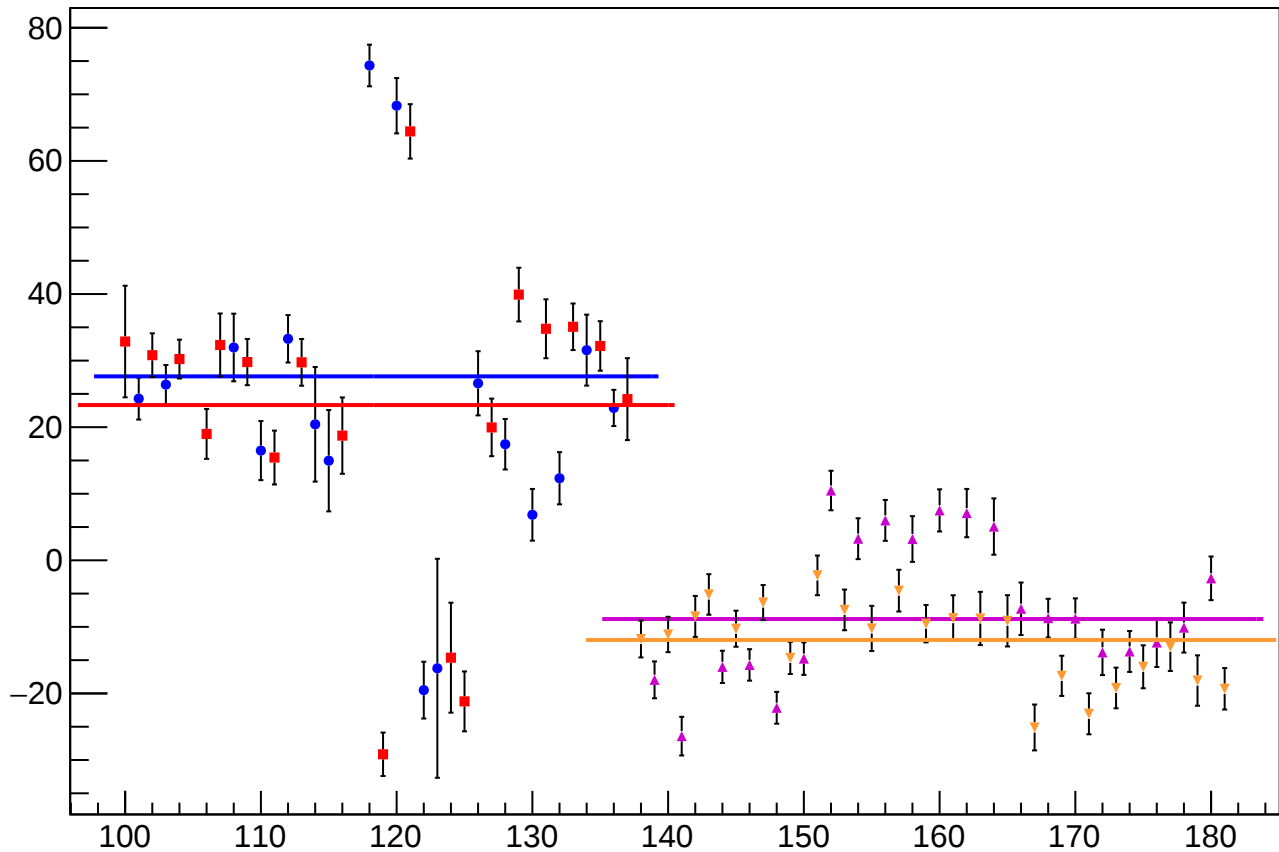
Right: 2361.159+/-0.452 χ^2/NDF : 229223.0/35

In: 2159.100+/-0.325 χ^2/NDF :1594819.6/37

Out: 2165.485+/-0.315 χ^2/NDF :1537887.8/41

All: 2162.395+/-0.226 χ^2/NDF : 3132906.2/79

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.633 ± 0.976 $\chi^2/\text{NDF}: 517.1/16$

Left Out: -11.964 ± 0.640 $\chi^2/\text{NDF}: 80.3/22$

Right Out: 23.322 ± 0.929 $\chi^2/\text{NDF}: 548.2/18$

Left In: -8.821 ± 0.659 $\chi^2/\text{NDF}: 261.1/20$

Left: -10.437 ± 0.459 $\chi^2/\text{NDF}: 353.1/43$

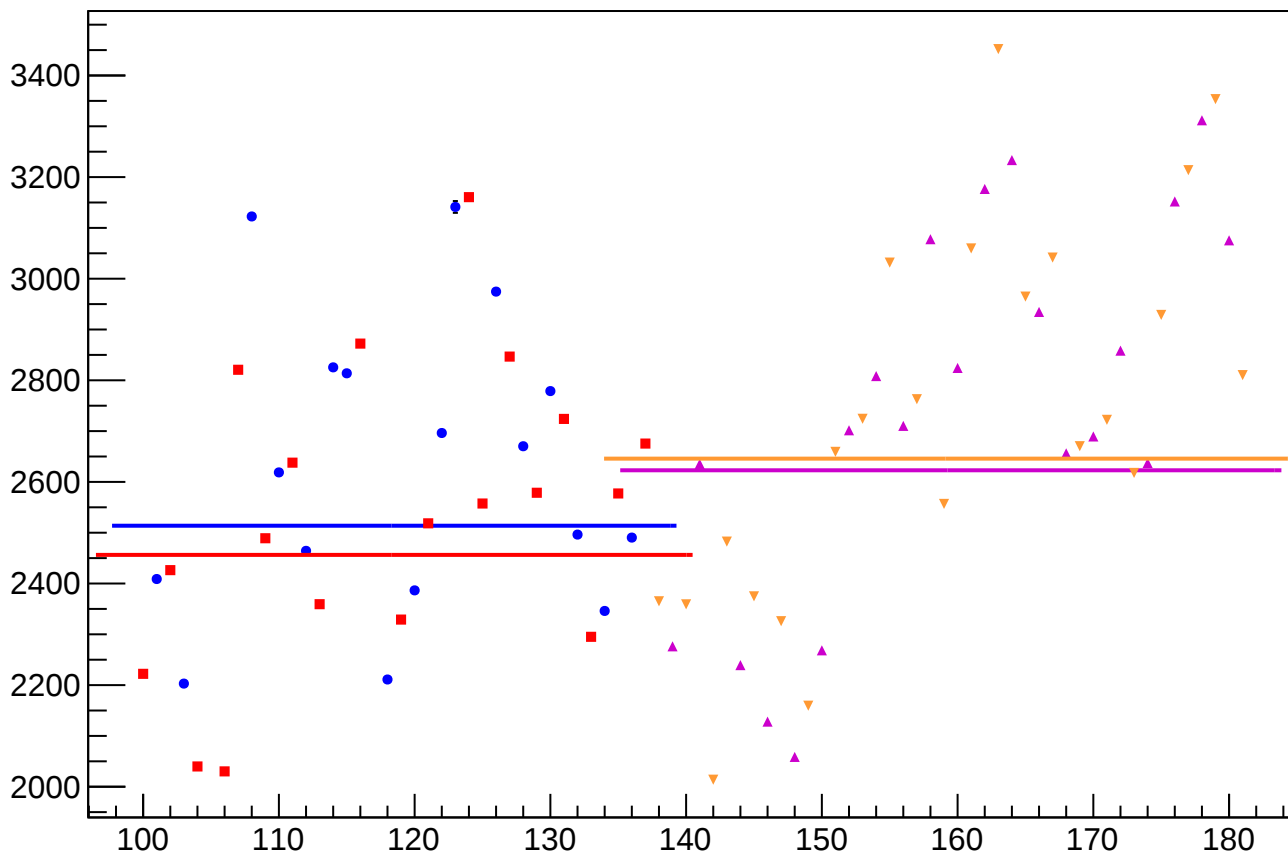
Right: 25.369 ± 0.673 $\chi^2/\text{NDF}: 1075.6/35$

In: 2.585 ± 0.546 $\chi^2/\text{NDF}: 1736.1/37$

Out: -0.590 ± 0.527 $\chi^2/\text{NDF}: 1607.1/41$

All: 0.941 ± 0.379 $\chi^2/\text{NDF}: 3360.7/79$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2513.762 $\pm$ 0.690 χ^2 /NDF: 120863.4/16

Left Out: 2645.812 $\pm$ 0.453 χ^2 /NDF: 587971.7/22

Right Out: 2456.343 $\pm$ 0.657 χ^2 /NDF: 149877.3/18

Left In: 2622.878 $\pm$ 0.466 χ^2 /NDF: 634568.4/20

Left: 2634.671 $\pm$ 0.325 χ^2 /NDF: 1223786.2/43

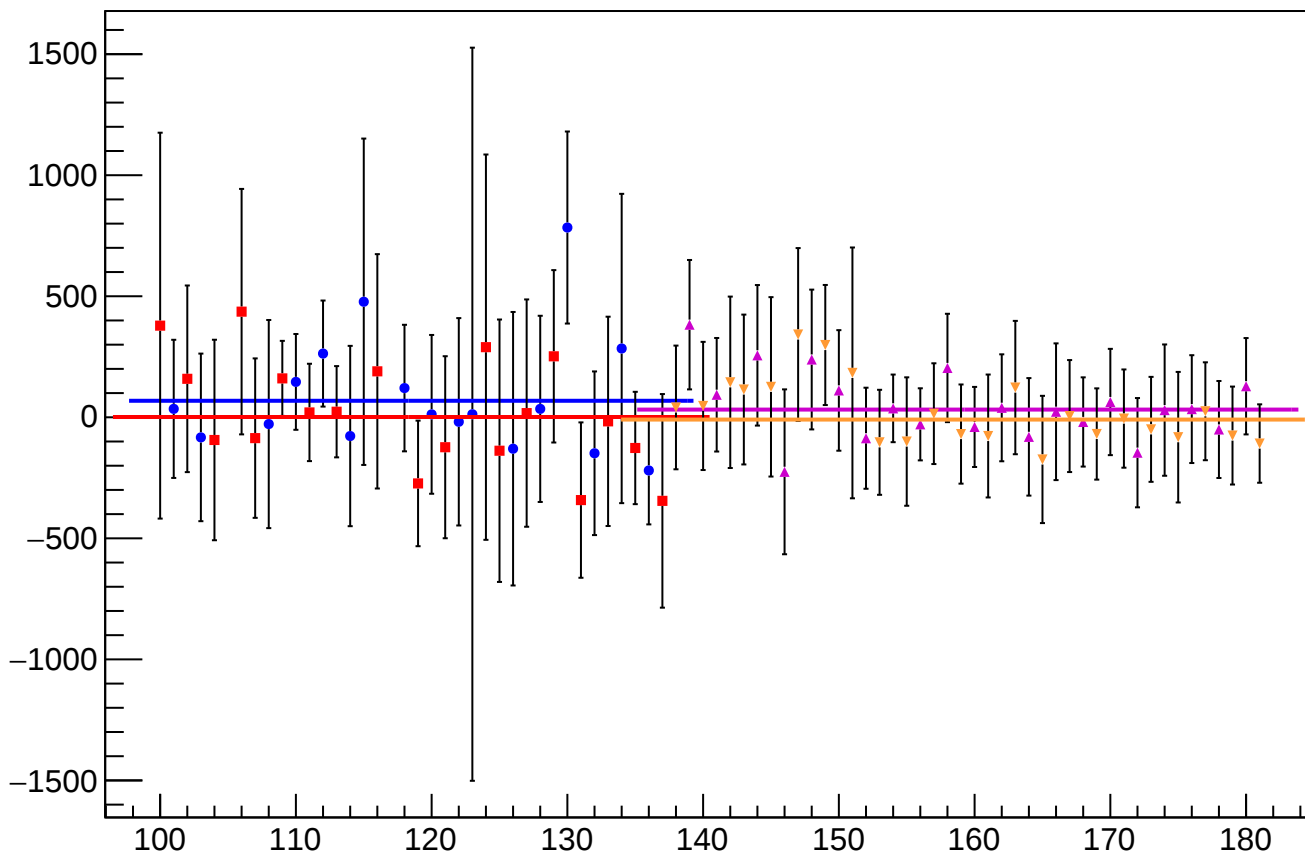
Right: 2483.612 $\pm$ 0.476 χ^2 /NDF: 274372.9/35

In: 2588.736 $\pm$ 0.386 χ^2 /NDF: 772596.2/37

Out: 2584.740 $\pm$ 0.373 χ^2 /NDF: 794283.6/41

All: 2586.668 $\pm$ 0.268 χ^2 /NDF: 1566935.2/79

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.238 $\pm$ 79.240 χ^2 /NDF: 7.4/16

Left Out: -9.397 $\pm$ 49.884 χ^2 /NDF:5.0/22

Right Out: 1.201 $\pm$ 69.991 χ^2 /NDF: 6.5/18

Left In: 31.859 $\pm$ 46.605 χ^2 /NDF:6.2/20

Left: 12.631 $\pm$ 34.055 χ^2 /NDF: 11.6/43

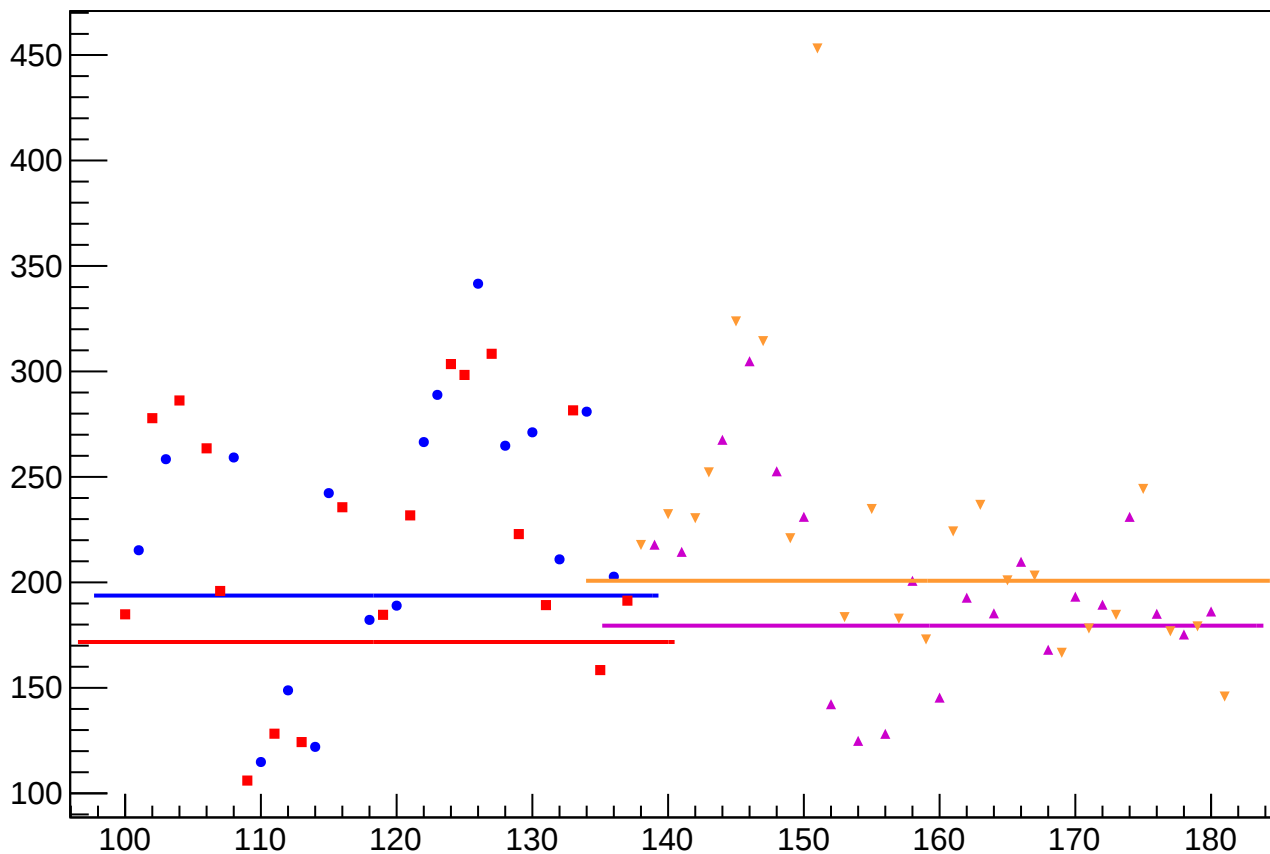
Right: 30.580 $\pm$ 52.458 χ^2 /NDF: 14.3/35

In: 41.209 $\pm$ 40.172 χ^2 /NDF:13.8/37

Out: -5.827 $\pm$ 40.622 χ^2 /NDF:11.5/41

All: 17.953 $\pm$ 28.564 χ^2 /NDF: 26.0/79

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.749+/-0.056 χ^2/NDF : 1011115.2/16

Left Out: 200.766+/-0.035 χ^2/NDF : 1599784.1/22

Right Out: 171.741+/-0.049 χ^2/NDF : 1571422.7/18

Left In: 179.485+/-0.033 χ^2/NDF : 1592629.2/20

Left: 189.403+/-0.024 χ^2/NDF : 3386763.2/43

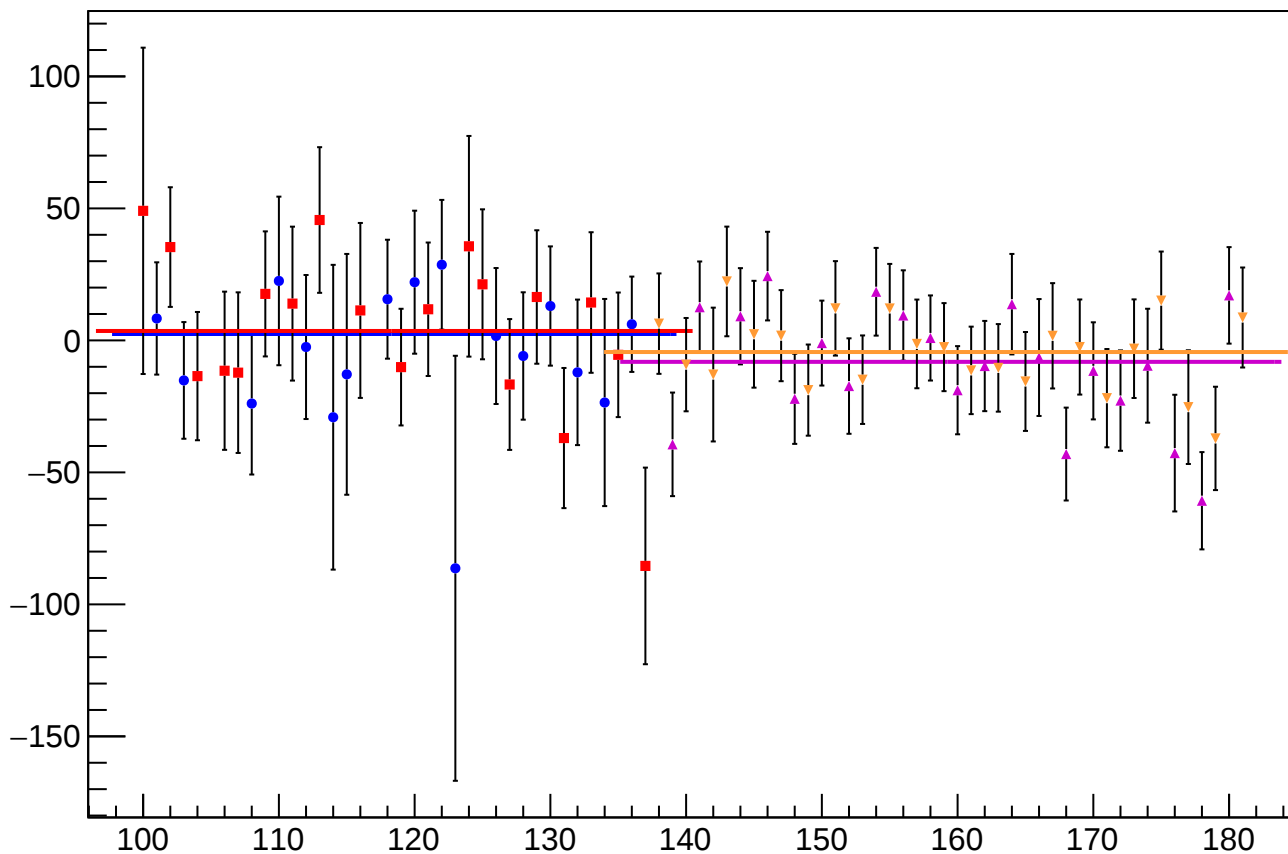
Right: 181.386+/-0.037 χ^2/NDF : 2669200.7/35

In: 183.151+/-0.028 χ^2/NDF : 2651896.2/37

Out: 190.988+/-0.029 χ^2/NDF : 3399286.5/41

All: 187.026+/-0.020 χ^2/NDF : 6088824.0/79

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.423 ± 6.440 $\chi^2/\text{NDF}: 6.8/16$

Left Out: -4.407 ± 3.828 $\chi^2/\text{NDF}: 12.3/22$

Right Out: 3.569 ± 6.294 $\chi^2/\text{NDF}: 17.1/18$

Left In: -8.130 ± 3.934 $\chi^2/\text{NDF}: 32.5/20$

Left: -6.218 ± 2.743 $\chi^2/\text{NDF}: 45.2/43$

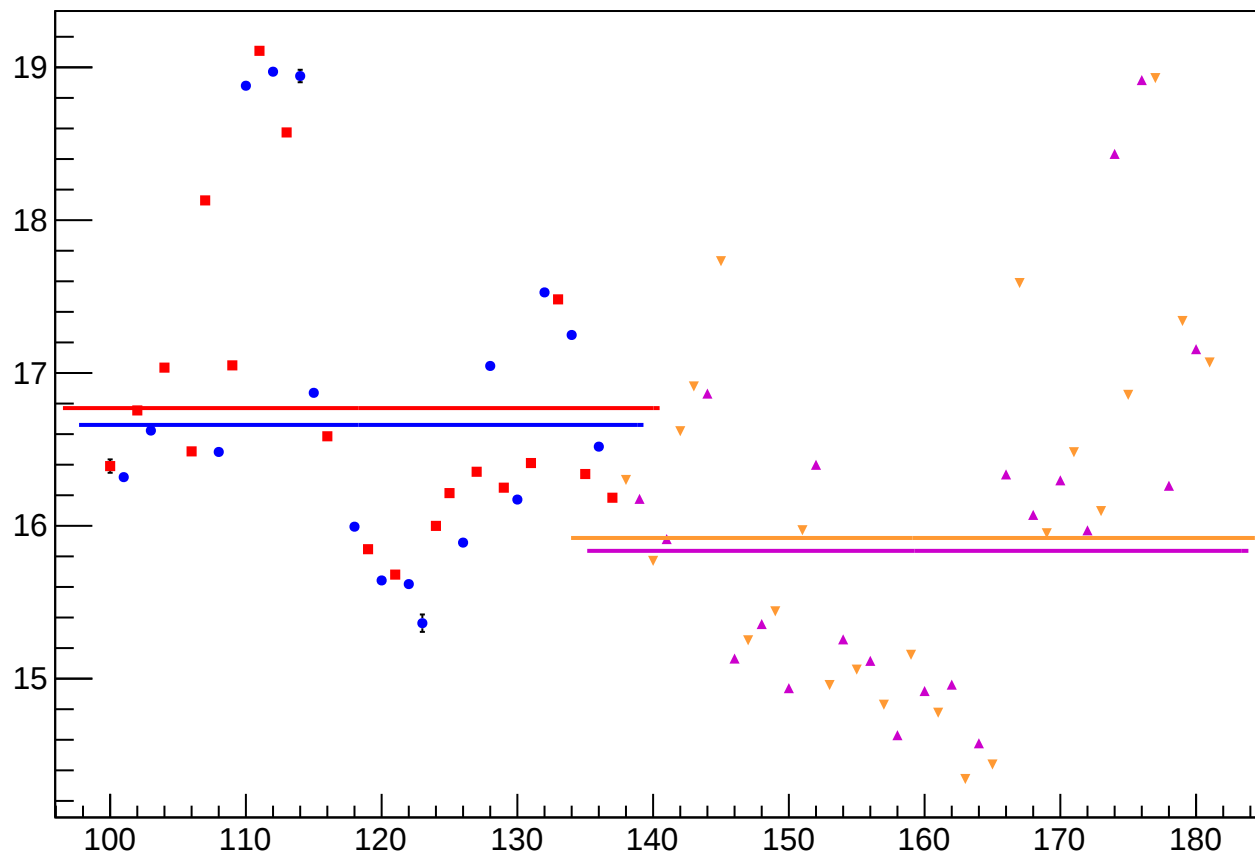
Right: 3.009 ± 4.501 $\chi^2/\text{NDF}: 24.0/35$

In: -5.262 ± 3.357 $\chi^2/\text{NDF}: 41.3/37$

Out: -2.254 ± 3.270 $\chi^2/\text{NDF}: 30.6/41$

All: -3.719 ± 2.343 $\chi^2/\text{NDF}: 72.3/79$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.660 $\pm$ 0.005 χ^2 /NDF: 42269.4/16

Left Out: 15.921 $\pm$ 0.003 χ^2 /NDF:170130.0/22

Right Out: 16.770 $\pm$ 0.004 χ^2 /NDF: 39259.2/18

Left In: 15.836 $\pm$ 0.003 χ^2 /NDF:139555.8/20

Left: 15.880 $\pm$ 0.002 χ^2 /NDF: 310158.0/43

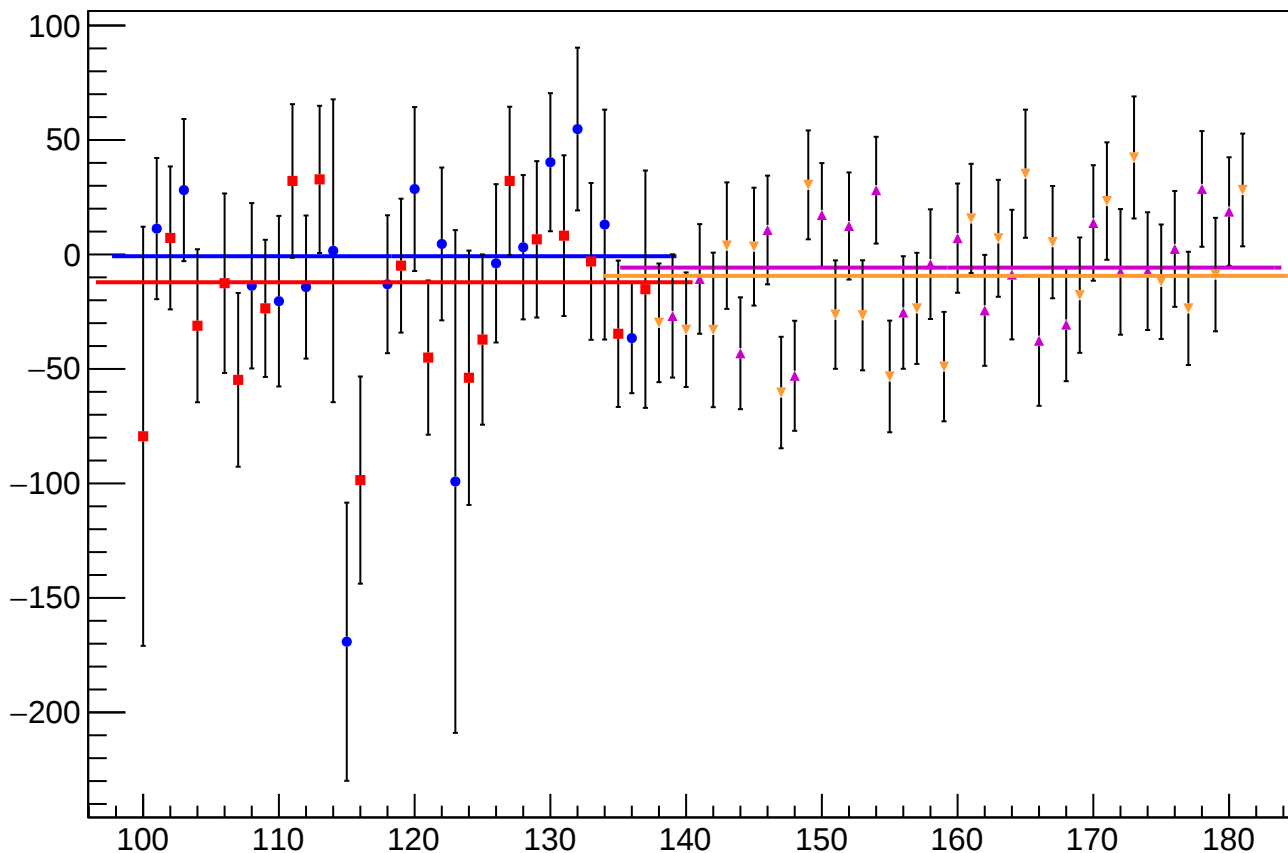
Right: 16.717 $\pm$ 0.003 χ^2 /NDF: 81827.4/35

In: 16.060 $\pm$ 0.002 χ^2 /NDF:205673.0/37

Out: 16.150 $\pm$ 0.002 χ^2 /NDF:236005.2/41

All: 16.106 $\pm$ 0.002 χ^2 /NDF: 442413.4/79

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.764 ± 8.505 $\chi^2/\text{NDF}: 17.6/16$

Left Out: -9.346 ± 5.261 $\chi^2/\text{NDF}: 29.6/22$

Right Out: -12.135 ± 8.228 $\chi^2/\text{NDF}: 15.1/18$

Left In: -5.742 ± 5.406 $\chi^2/\text{NDF}: 18.5/20$

Left: -7.593 ± 3.770 $\chi^2/\text{NDF}: 48.3/43$

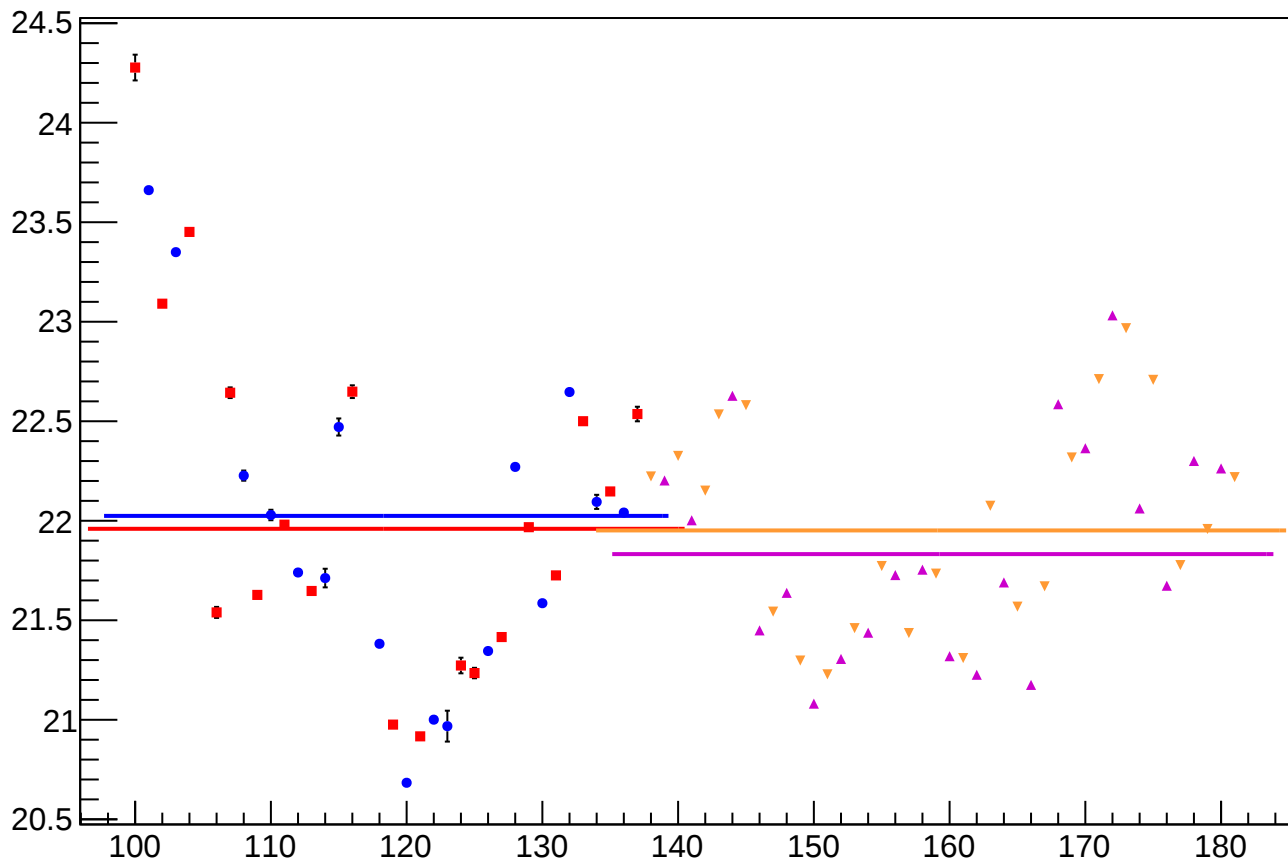
Right: -6.638 ± 5.914 $\chi^2/\text{NDF}: 33.6/35$

In: -4.309 ± 4.562 $\chi^2/\text{NDF}: 36.3/37$

Out: -10.155 ± 4.433 $\chi^2/\text{NDF}: 44.8/41$

All: -7.317 ± 3.179 $\chi^2/\text{NDF}: 81.9/79$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.024 $\pm$ 0.006 χ^2 /NDF: 17381.0/16

Left Out: 21.951 $\pm$ 0.004 χ^2 /NDF:18151.9/22

Right Out: 21.960 $\pm$ 0.006 χ^2 /NDF: 16383.4/18

Left In: 21.832 $\pm$ 0.004 χ^2 /NDF:18540.5/20

Left: 21.894 $\pm$ 0.003 χ^2 /NDF: 37189.4/43

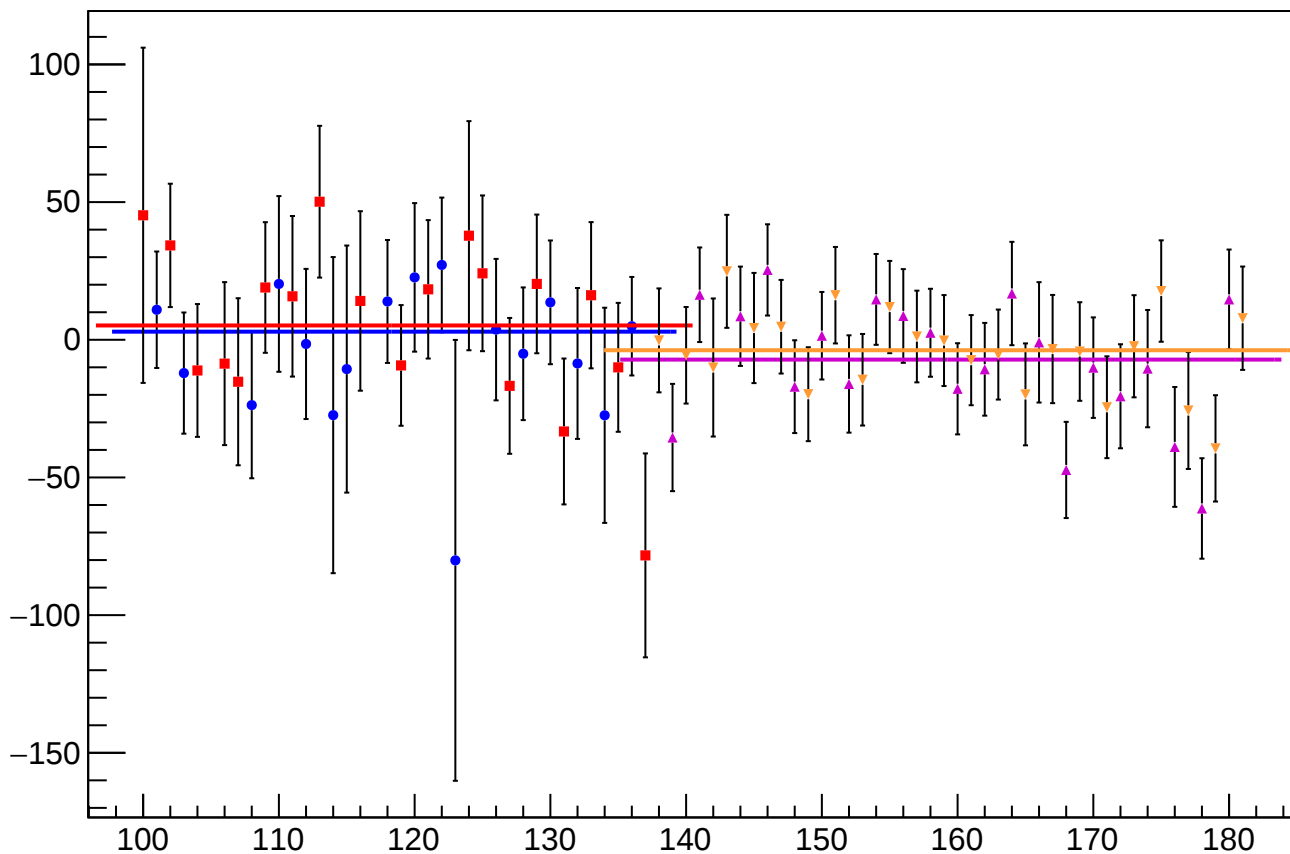
Right: 21.991 $\pm$ 0.004 χ^2 /NDF: 33824.6/35

In: 21.888 $\pm$ 0.003 χ^2 /NDF:36647.4/37

Out: 21.954 $\pm$ 0.003 χ^2 /NDF:34536.8/41

All: 21.922 $\pm$ 0.002 χ^2 /NDF: 71399.8/79

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.948 $\pm$ 6.404 χ^2 /NDF: 6.3/16

Left Out: -3.803 $\pm$ 3.786 χ^2 /NDF:14.4/22

Right Out: 5.199 $\pm$ 6.258 χ^2 /NDF: 17.2/18

Left In: -7.200 $\pm$ 3.892 χ^2 /NDF:32.8/20

Left: -5.455 $\pm$ 2.714 χ^2 /NDF: 47.6/43

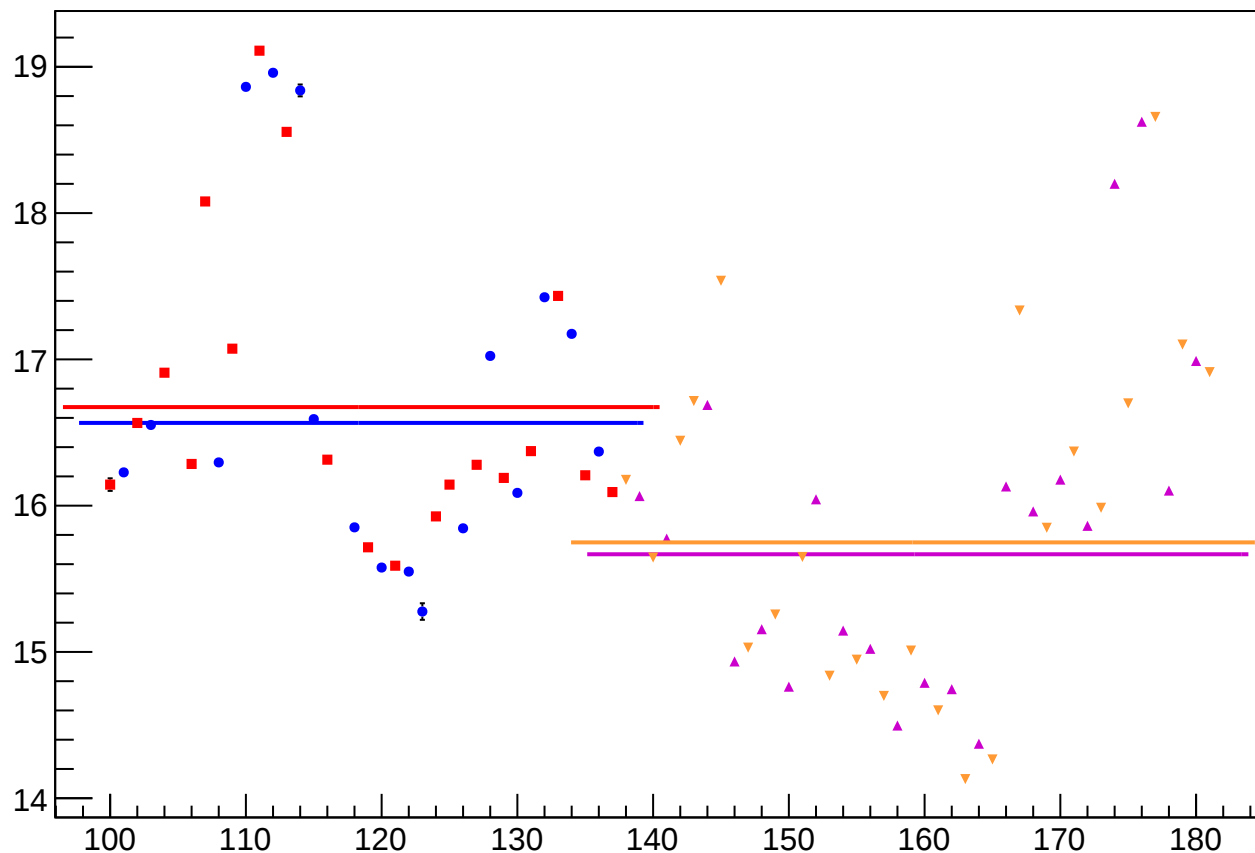
Right: 4.100 $\pm$ 4.476 χ^2 /NDF: 23.5/35

In: -4.463 $\pm$ 3.326 χ^2 /NDF:41.0/37

Out: -1.391 $\pm$ 3.240 χ^2 /NDF:33.0/41

All: -2.887 $\pm$ 2.321 χ^2 /NDF: 74.4/79

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.566 $\pm$ 0.005 χ^2 /NDF: 44242.8/16

Left Out: 15.749 $\pm$ 0.003 χ^2 /NDF:169238.4/22

Right Out: 16.674 $\pm$ 0.004 χ^2 /NDF: 42453.5/18

Left In: 15.668 $\pm$ 0.003 χ^2 /NDF:137508.3/20

Left: 15.709 $\pm$ 0.002 χ^2 /NDF: 307193.7/43

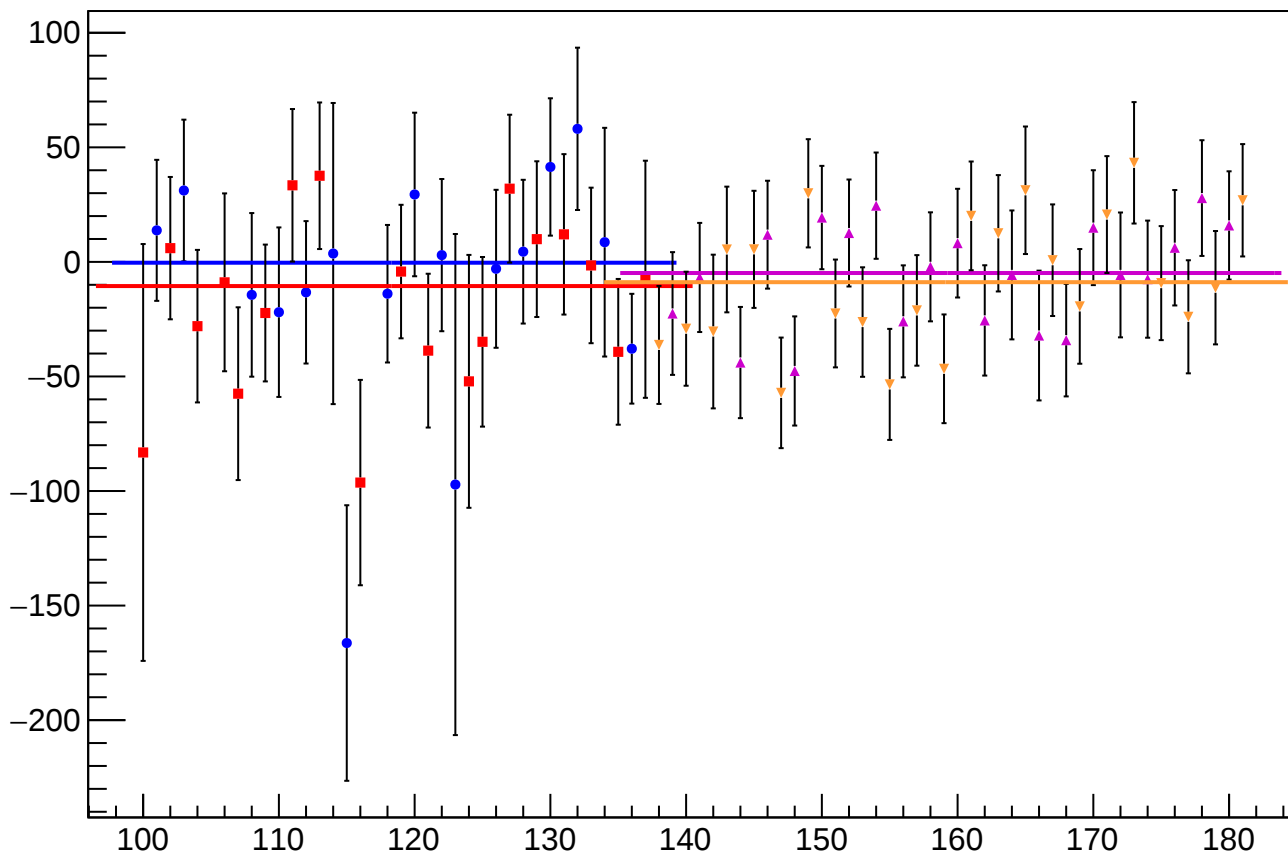
Right: 16.621 $\pm$ 0.003 χ^2 /NDF: 86987.8/35

In: 15.910 $\pm$ 0.002 χ^2 /NDF:210469.8/37

Out: 15.997 $\pm$ 0.002 χ^2 /NDF:243669.7/41

All: 15.954 $\pm$ 0.002 χ^2 /NDF: 454838.8/79

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.358 ± 8.465 $\chi^2/\text{NDF}: 18.4/16$

Left Out: -8.851 ± 5.231 $\chi^2/\text{NDF}: 28.9/22$

Right Out: -10.548 ± 8.187 $\chi^2/\text{NDF}: 15.7/18$

Left In: -4.850 ± 5.376 $\chi^2/\text{NDF}: 17.5/20$

Left: -6.905 ± 3.749 $\chi^2/\text{NDF}: 46.7/43$

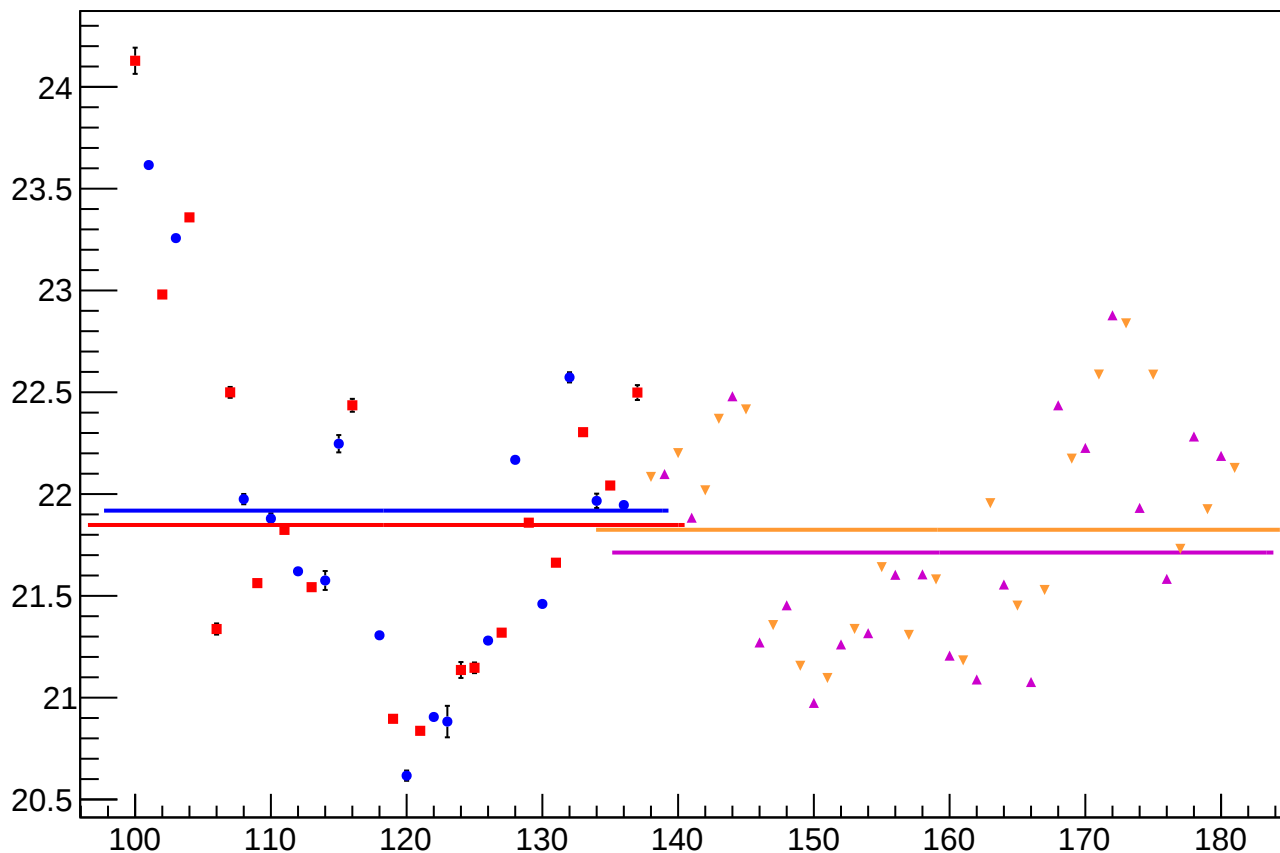
Right: -5.623 ± 5.885 $\chi^2/\text{NDF}: 34.9/35$

In: -3.558 ± 4.538 $\chi^2/\text{NDF}: 36.1/37$

Out: -9.343 ± 4.408 $\chi^2/\text{NDF}: 44.6/41$

All: -6.535 ± 3.162 $\chi^2/\text{NDF}: 81.6/79$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.919 $\pm$ 0.006 χ^2 /NDF: 17641.8/16

Left Out: 21.825 $\pm$ 0.004 χ^2 /NDF: 18445.3/22

Right Out: 21.848 $\pm$ 0.006 χ^2 /NDF: 16031.9/18

Left In: 21.713 $\pm$ 0.004 χ^2 /NDF: 18596.1/20

Left: 21.770 $\pm$ 0.003 χ^2 /NDF: 37486.5/43

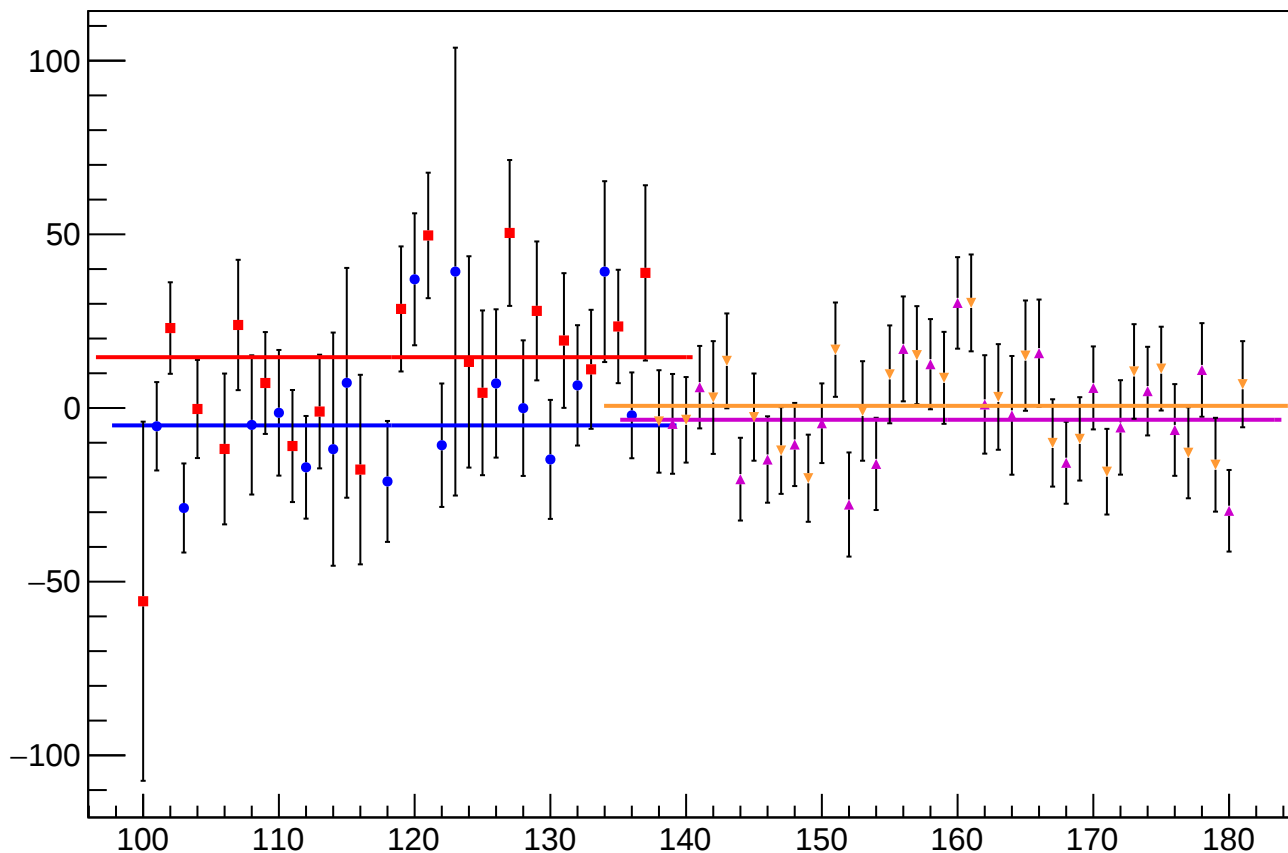
Right: 21.882 $\pm$ 0.004 χ^2 /NDF: 33745.4/35

In: 21.772 $\pm$ 0.003 χ^2 /NDF: 37081.4/37

Out: 21.831 $\pm$ 0.003 χ^2 /NDF: 34488.9/41

All: 21.803 $\pm$ 0.002 χ^2 /NDF: 71747.3/79

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.010 ± 4.334 χ^2/NDF : 14.8/16

Left Out: 0.621 ± 2.786 χ^2/NDF : 21.6/22

Right Out: 14.630 ± 4.270 χ^2/NDF : 19.4/18

Left In: -3.389 ± 2.851 χ^2/NDF : 27.3/20

Left: -1.338 ± 1.992 χ^2/NDF : 49.9/43

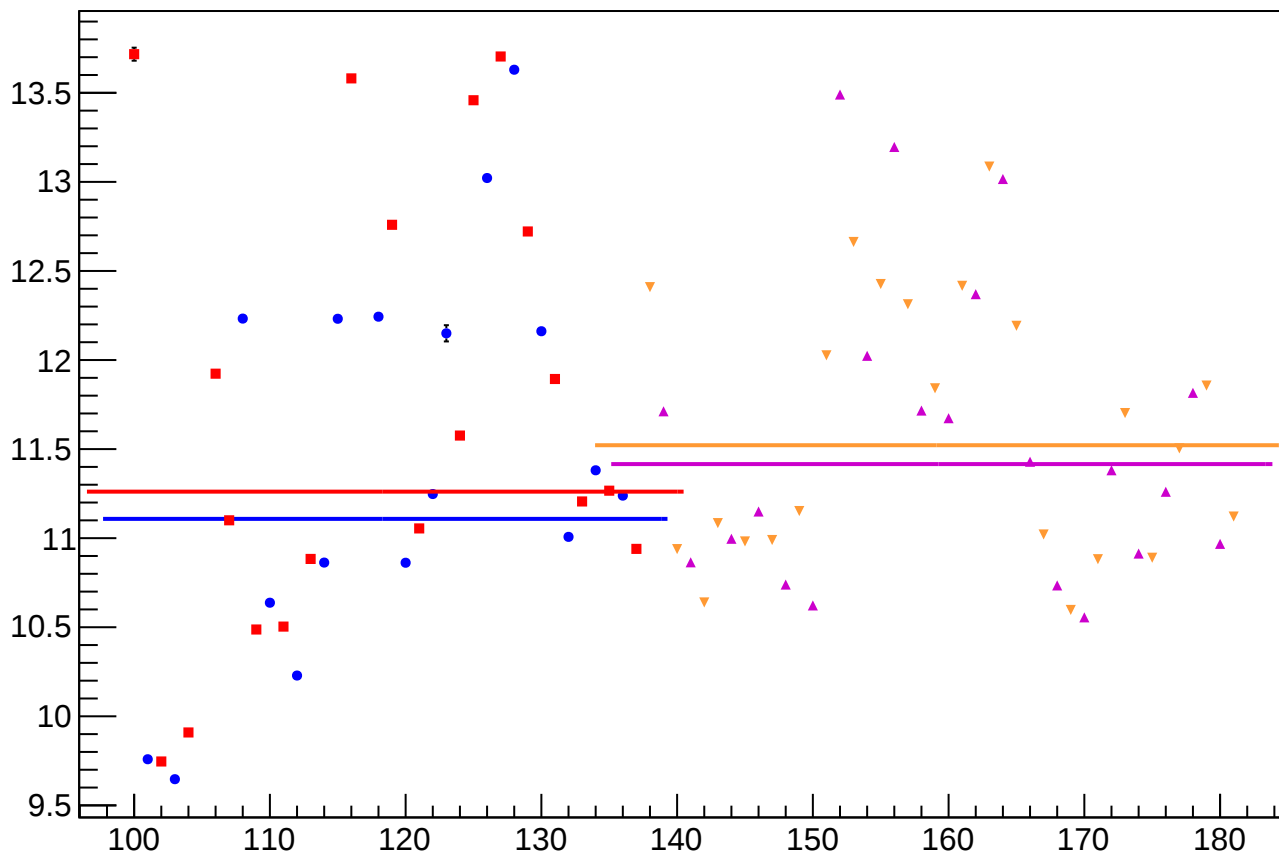
Right: 4.955 ± 3.042 χ^2/NDF : 44.6/35

In: -3.878 ± 2.382 χ^2/NDF : 42.1/37

Out: 4.803 ± 2.333 χ^2/NDF : 48.5/41

All: 0.551 ± 1.667 χ^2/NDF : 97.4/79

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.108 $\pm$ 0.003 χ^2 /NDF: 132594.7/16

Left Out: 11.522 $\pm$ 0.002 χ^2 /NDF:122457.1/22

Right Out: 11.261 $\pm$ 0.003 χ^2 /NDF: 148448.6/18

Left In: 11.416 $\pm$ 0.002 χ^2 /NDF:148335.3/20

Left: 11.470 $\pm$ 0.001 χ^2 /NDF: 272204.2/43

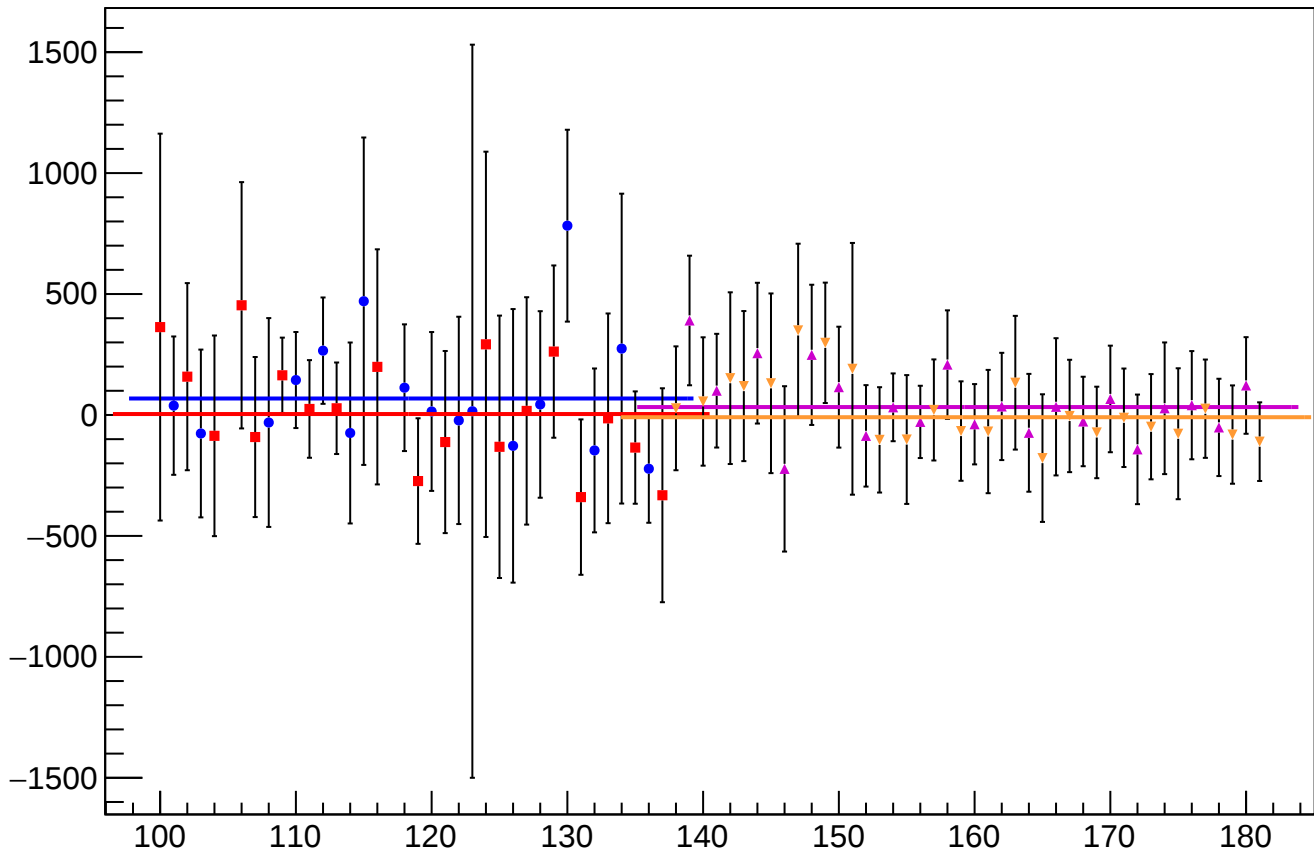
Right: 11.186 $\pm$ 0.002 χ^2 /NDF: 282306.4/35

In: 11.323 $\pm$ 0.002 χ^2 /NDF:287961.4/37

Out: 11.444 $\pm$ 0.002 χ^2 /NDF:276129.4/41

All: 11.385 $\pm$ 0.001 χ^2 /NDF: 566725.2/79

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.114+/-79.449 χ^2/NDF : 7.4/16

Left Out: -9.238+/-50.068 χ^2/NDF : 5.2/22

Right Out: 3.876+/-70.195 χ^2/NDF : 6.5/18

Left In: 32.724+/-46.769 χ^2/NDF : 6.3/20

Left: 13.171+/-34.178 χ^2/NDF : 11.8/43

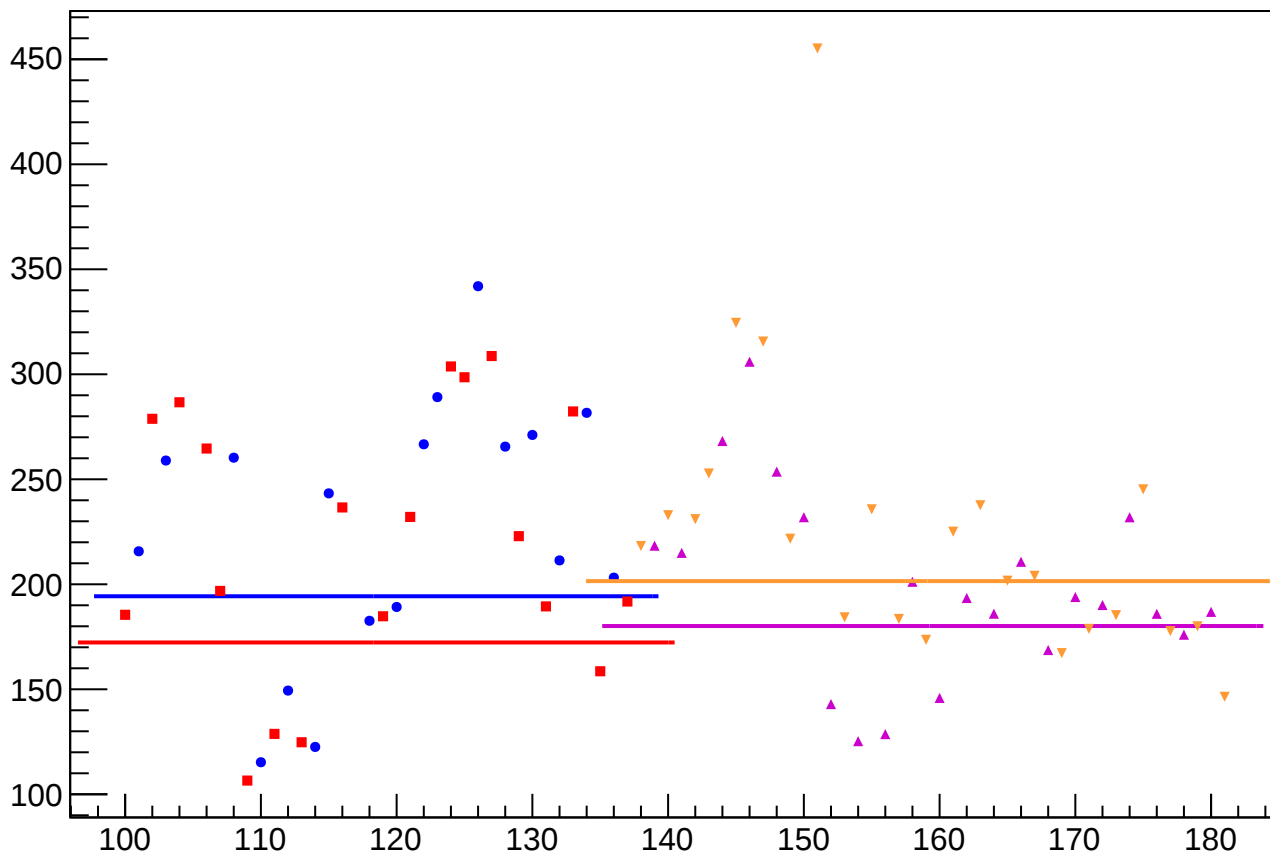
Right: 32.037+/-52.604 χ^2/NDF : 14.3/35

In: 41.832+/-40.305 χ^2/NDF : 13.8/37

Out: -4.816+/-40.762 χ^2/NDF : 11.7/41

All: 18.771+/-28.660 χ^2/NDF : 26.2/79

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.298 $\pm$ 0.056 χ^2 /NDF: 1006214.8/16

Left Out: 201.515 $\pm$ 0.035 χ^2 /NDF: 1597303.3/22

Right Out: 172.293 $\pm$ 0.050 χ^2 /NDF: 1564135.2/18

Left In: 180.124 $\pm$ 0.033 χ^2 /NDF: 1590923.2/20

Left: 190.092 $\pm$ 0.024 χ^2 /NDF: 3383181.9/43

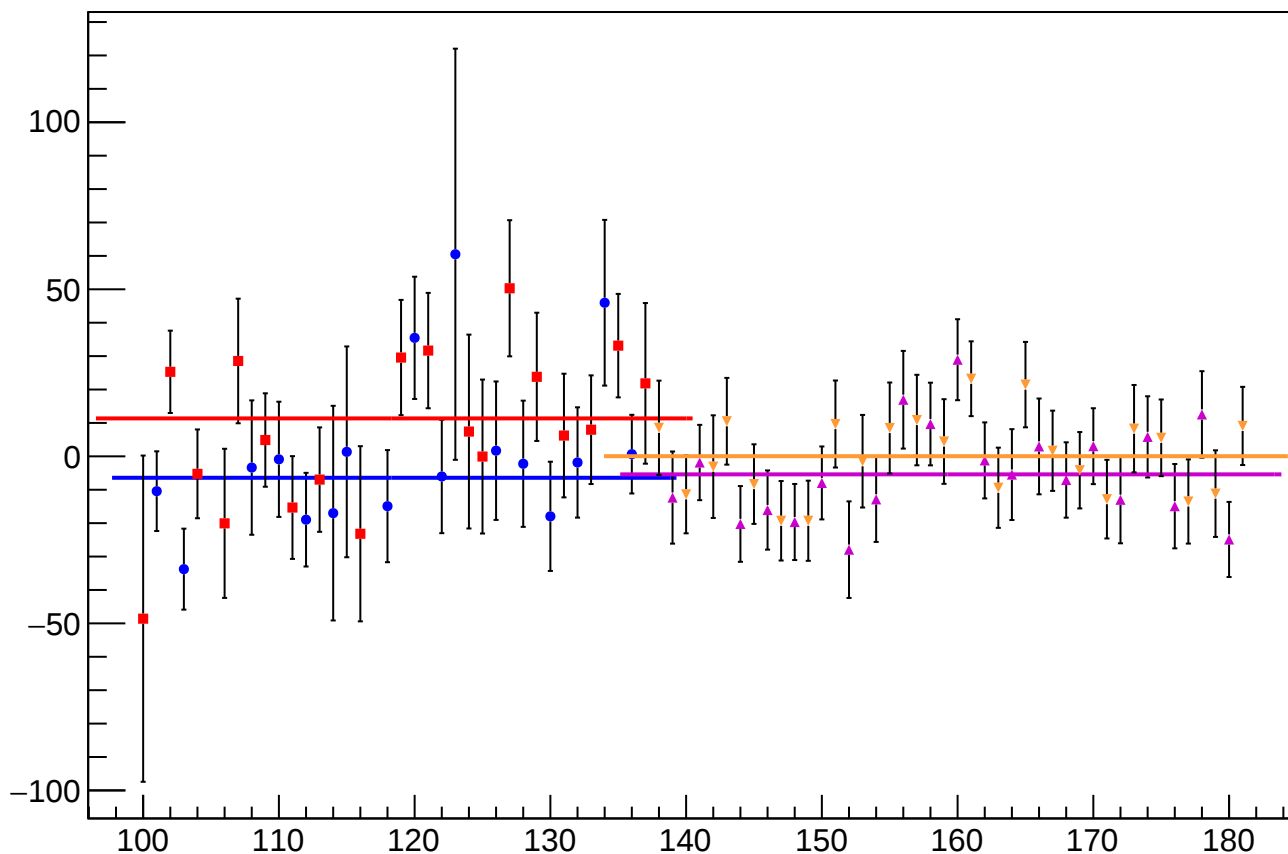
Right: 181.940 $\pm$ 0.037 χ^2 /NDF: 2656513.7/35

In: 183.772 $\pm$ 0.028 χ^2 /NDF: 2644410.1/37

Out: 191.661 $\pm$ 0.029 χ^2 /NDF: 3391174.9/41

All: 187.672 $\pm$ 0.020 χ^2 /NDF: 6073469.9/79

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.419 ± 4.138 χ^2/NDF : 18.6/16

Left Out: 0.040 ± 2.603 χ^2/NDF : 21.6/22

Right Out: 11.351 ± 4.084 χ^2/NDF : 22.6/18

Left In: -5.396 ± 2.677 χ^2/NDF : 26.8/20

Left: -2.601 ± 1.866 χ^2/NDF : 50.6/43

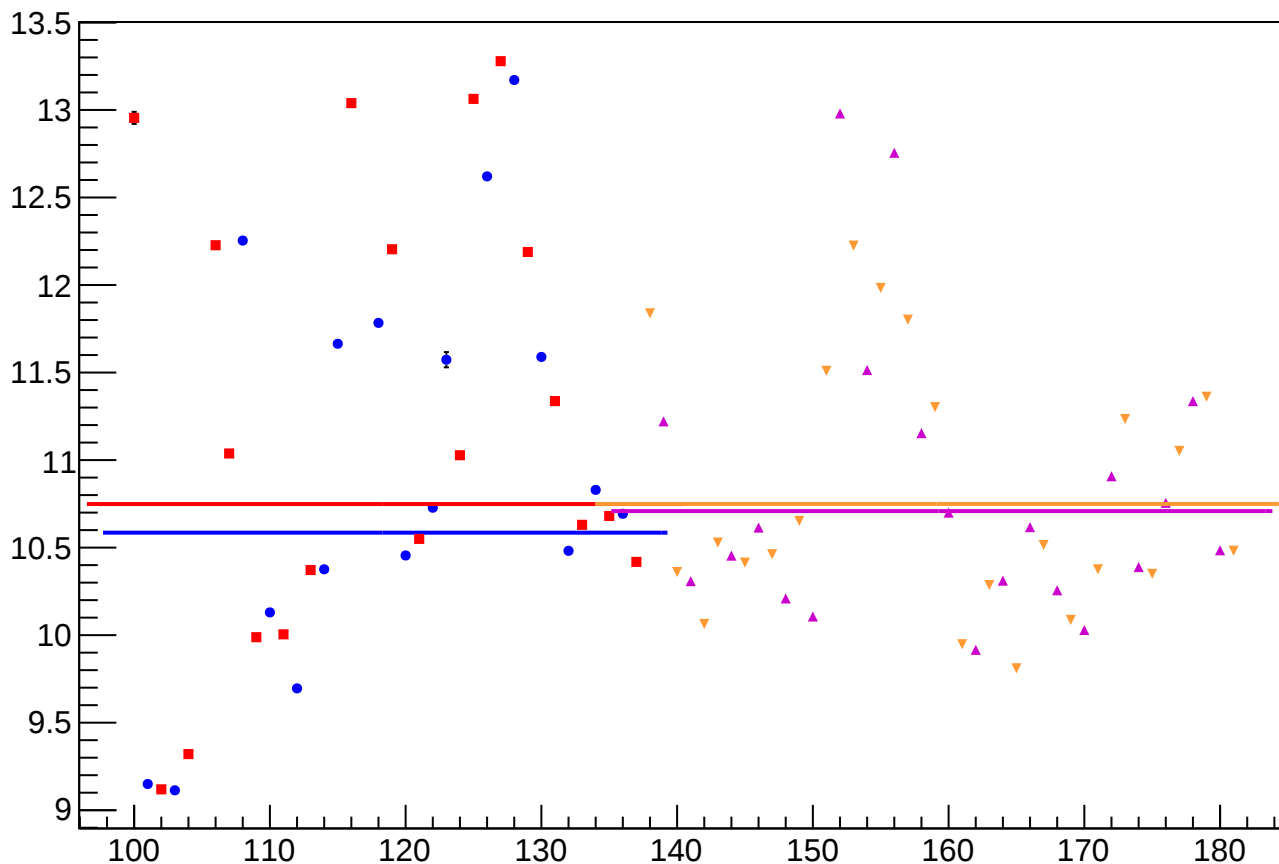
Right: 2.582 ± 2.907 χ^2/NDF : 50.6/35

In: -5.698 ± 2.248 χ^2/NDF : 45.5/37

Out: 3.307 ± 2.195 χ^2/NDF : 49.7/41

All: -1.088 ± 1.571 χ^2/NDF : 103.4/79

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.585 $\pm$ 0.003 χ^2 /NDF: 159813.8/16

Left Out: 10.750 $\pm$ 0.002 χ^2 /NDF:128730.6/22

Right Out: 10.749 $\pm$ 0.003 χ^2 /NDF: 177905.9/18

Left In: 10.709 $\pm$ 0.002 χ^2 /NDF:144746.4/20

Left: 10.730 $\pm$ 0.001 χ^2 /NDF: 273717.0/43

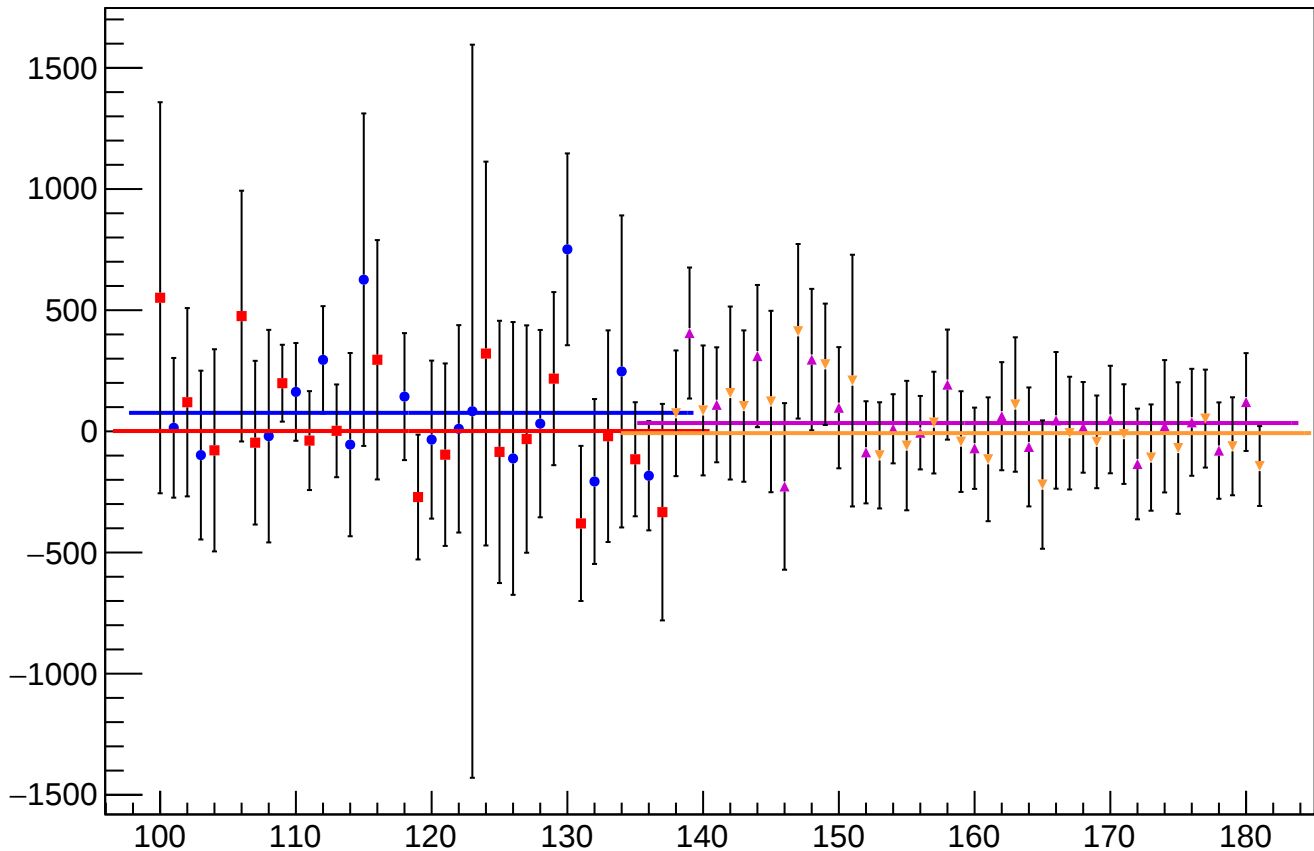
Right: 10.668 $\pm$ 0.002 χ^2 /NDF: 339301.3/35

In: 10.672 $\pm$ 0.002 χ^2 /NDF:305812.2/37

Out: 10.749 $\pm$ 0.002 χ^2 /NDF:306636.5/41

All: 10.712 $\pm$ 0.001 χ^2 /NDF: 613652.8/79

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 76.396 $\pm$ 79.969 χ^2 /NDF: 7.6/16

Left Out: -7.324 $\pm$ 50.368 χ^2 /NDF: 5.9/22

Right Out: 1.355 $\pm$ 70.867 χ^2 /NDF: 7.4/18

Left In: 34.370 $\pm$ 47.120 χ^2 /NDF: 6.9/20

Left: 14.911 $\pm$ 34.410 χ^2 /NDF: 13.2/43

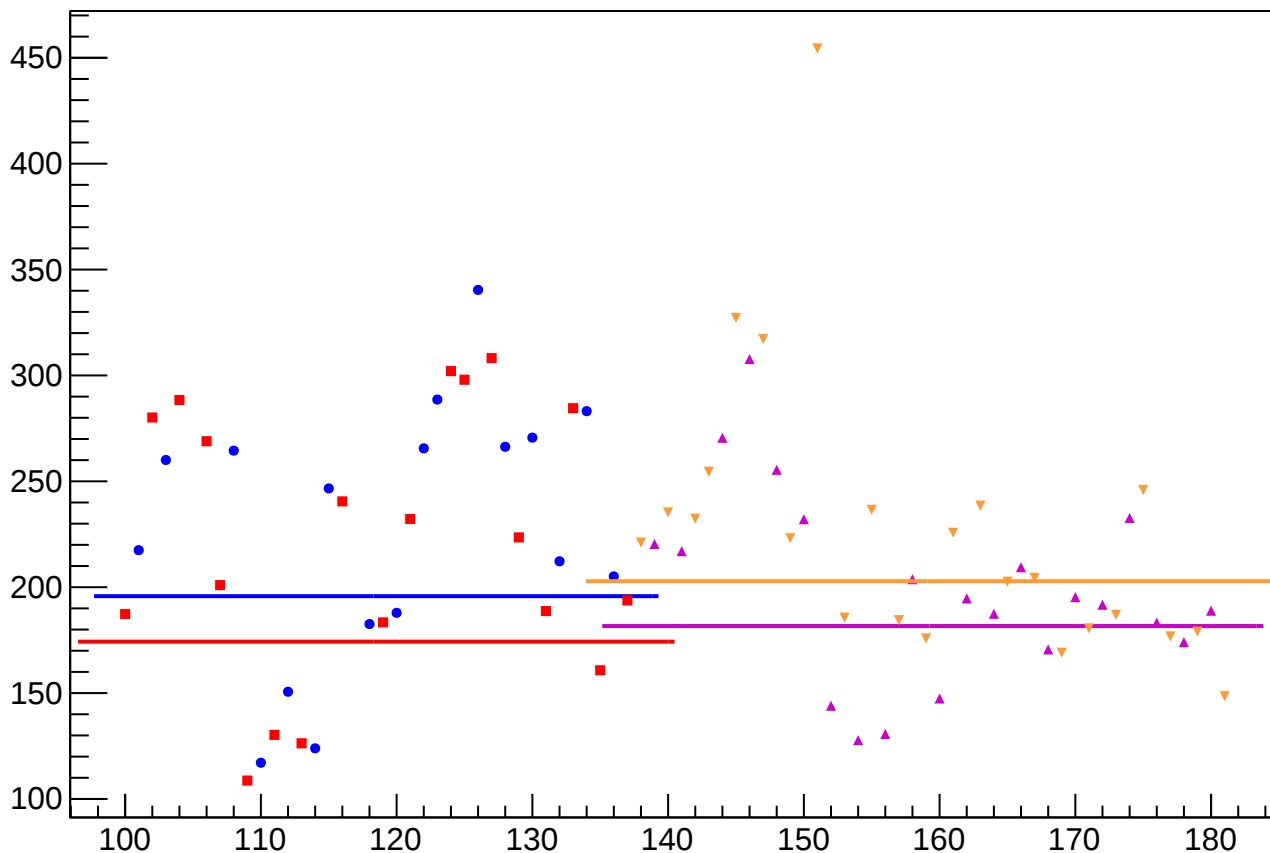
Right: 34.364 $\pm$ 53.038 χ^2 /NDF: 15.5/35

In: 45.201 $\pm$ 40.597 χ^2 /NDF: 14.7/37

Out: -4.411 $\pm$ 41.055 χ^2 /NDF: 13.3/41

All: 20.673 $\pm$ 28.867 χ^2 /NDF: 28.7/79

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.766 ± 0.057 χ^2/NDF : 980914.1/16

Left Out: 202.834 ± 0.036 χ^2/NDF : 1579381.5/22

Right Out: 174.286 ± 0.050 χ^2/NDF : 1523733.5/18

Left In: 181.666 ± 0.033 χ^2/NDF : 1545490.4/20

Left: 191.545 ± 0.024 χ^2/NDF : 3313261.3/43

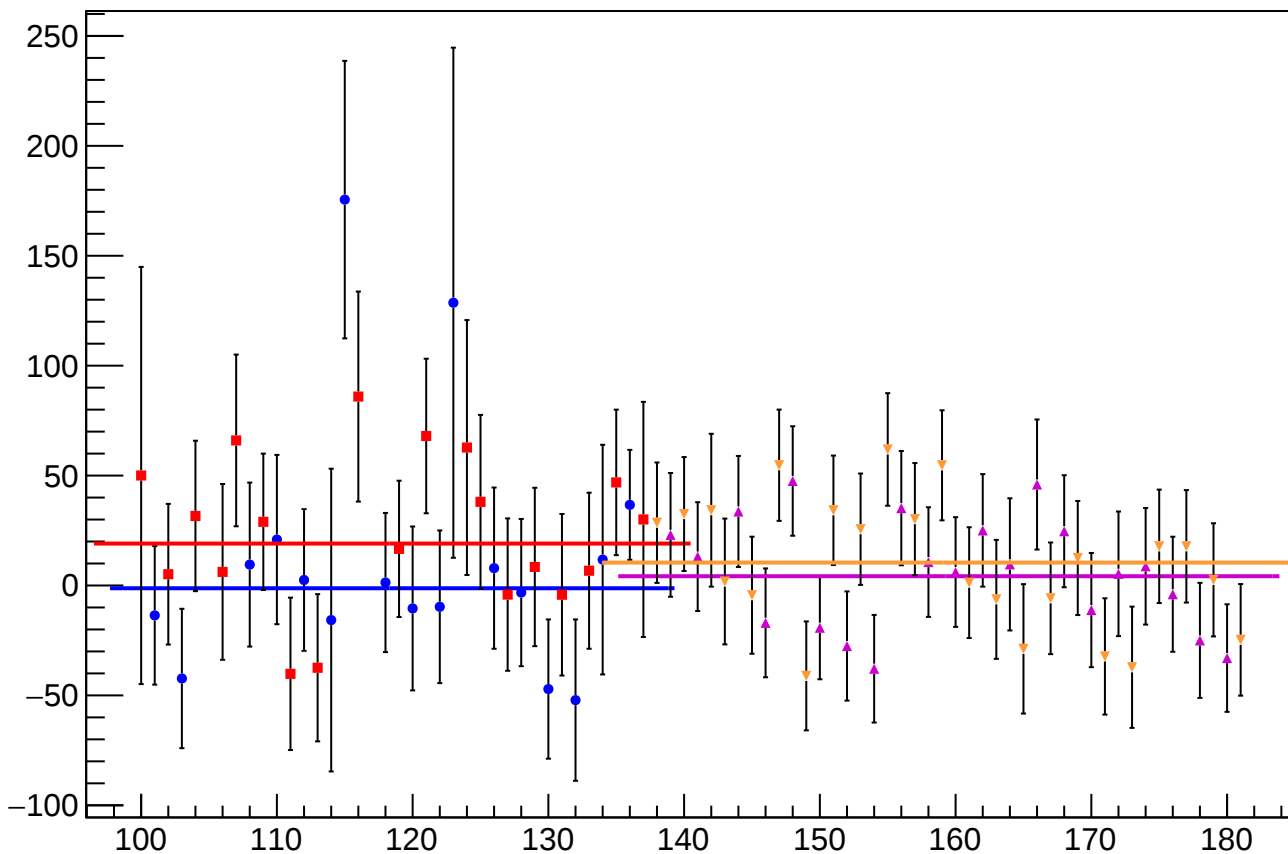
Right: 183.734 ± 0.038 χ^2/NDF : 2585471.0/35

In: 185.299 ± 0.029 χ^2/NDF : 2572558.0/37

Out: 193.253 ± 0.029 χ^2/NDF : 3318751.7/41

All: 189.232 ± 0.020 χ^2/NDF : 5929261.6/79

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.260 ± 8.846 χ^2/NDF : 18.0/16

Left Out: 10.413 ± 5.483 χ^2/NDF : 28.9/22

Right Out: 19.071 ± 8.572 χ^2/NDF : 14.4/18

Left In: 4.209 ± 5.629 χ^2/NDF : 20.1/20

Left: 7.392 ± 3.927 χ^2/NDF : 49.7/43

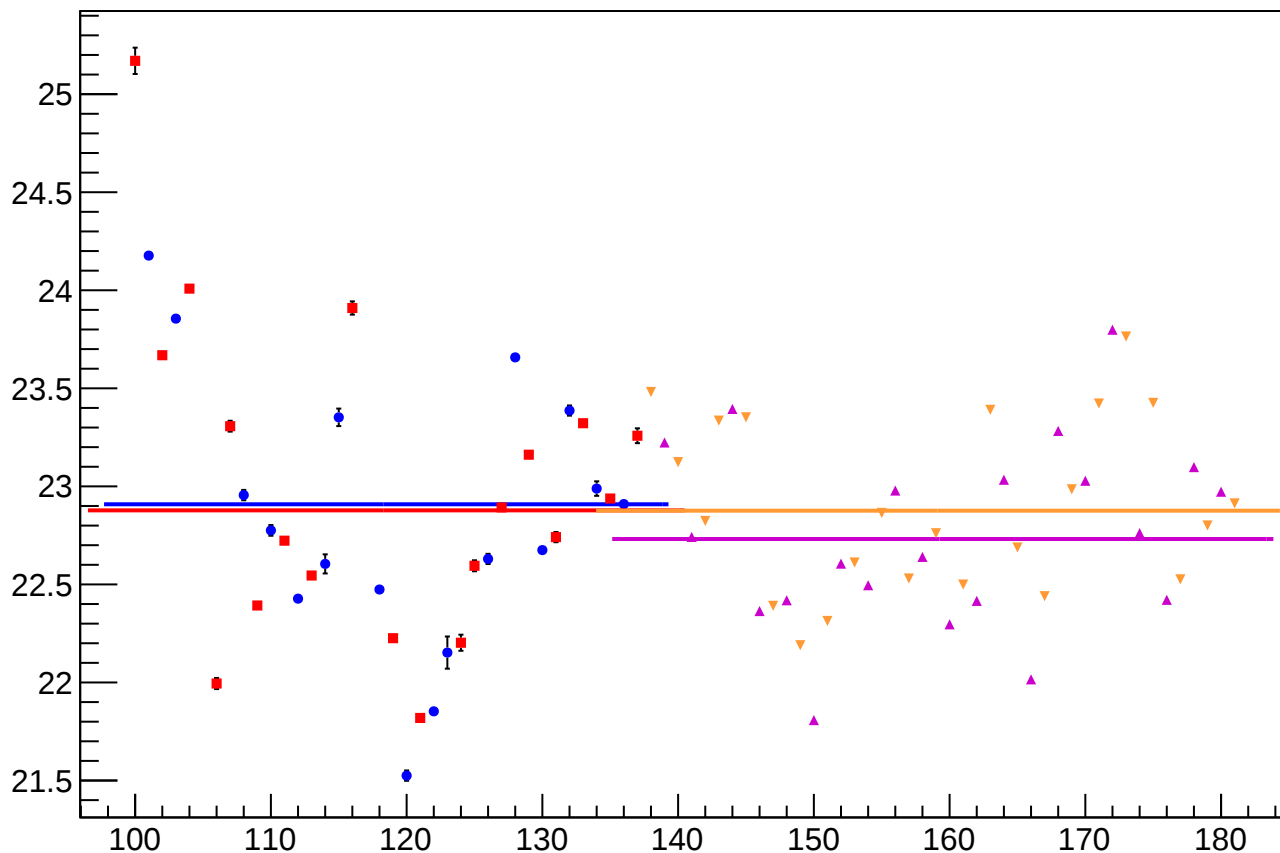
Right: 9.225 ± 6.156 χ^2/NDF : 35.1/35

In: 2.633 ± 4.749 χ^2/NDF : 38.4/37

Out: 12.927 ± 4.619 χ^2/NDF : 44.0/41

All: 7.922 ± 3.311 χ^2/NDF : 84.8/79

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.909 $\pm$ 0.006 χ^2 /NDF: 12270.5/16

Left Out: 22.876 $\pm$ 0.004 χ^2 /NDF:12345.9/22

Right Out: 22.878 $\pm$ 0.006 χ^2 /NDF: 11094.4/18

Left In: 22.732 $\pm$ 0.004 χ^2 /NDF:13477.7/20

Left: 22.806 $\pm$ 0.003 χ^2 /NDF: 26500.1/43

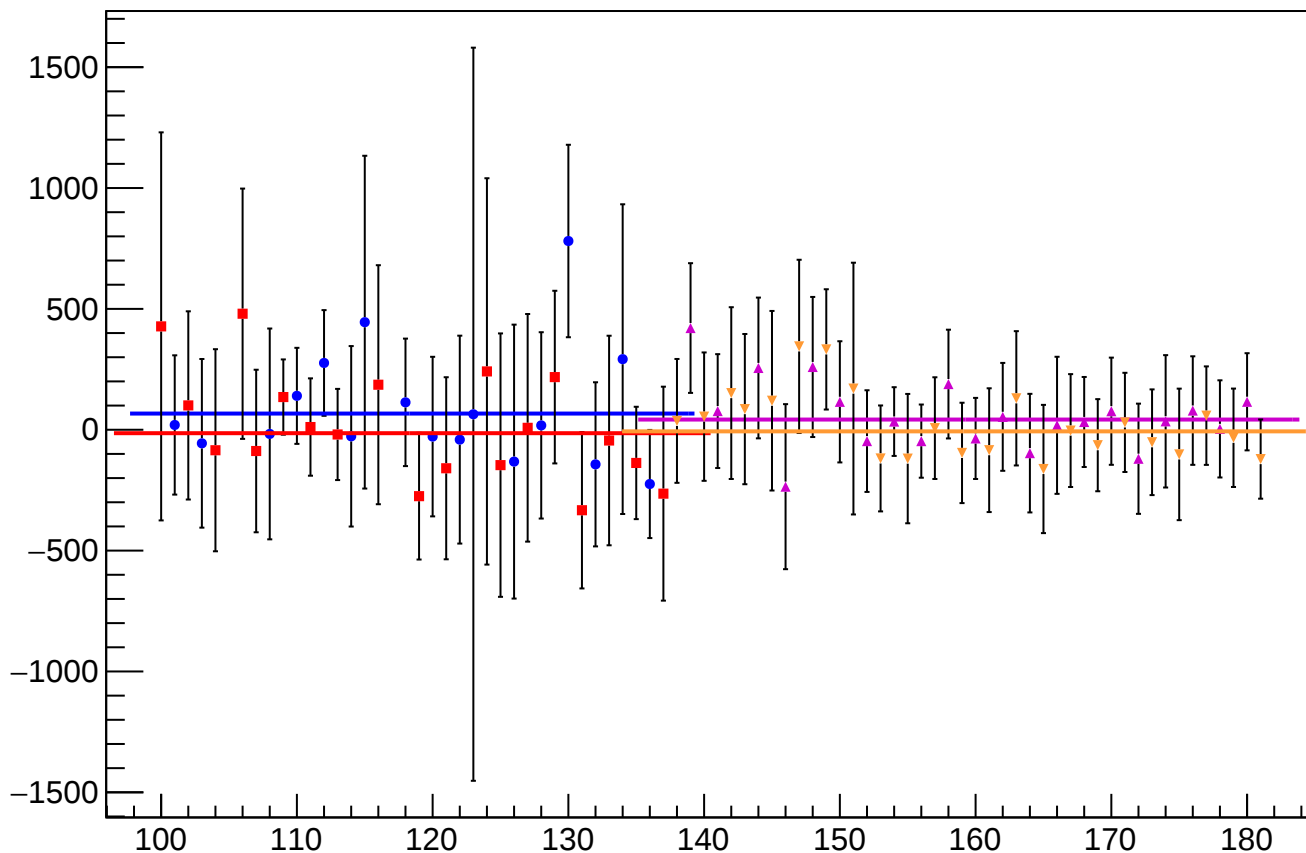
Right: 22.893 $\pm$ 0.004 χ^2 /NDF: 23377.6/35

In: 22.783 $\pm$ 0.003 χ^2 /NDF:26319.2/37

Out: 22.877 $\pm$ 0.003 χ^2 /NDF:23440.3/41

All: 22.831 $\pm$ 0.002 χ^2 /NDF: 50161.6/79

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 66.962 ± 79.625 $\chi^2/\text{NDF}: 7.3/16$

Left Out: -6.659 ± 50.307 $\chi^2/\text{NDF}: 5.6/22$

Right Out: -14.253 ± 70.367 $\chi^2/\text{NDF}: 5.8/18$

Left In: 42.167 ± 47.069 $\chi^2/\text{NDF}: 6.1/20$

Left: 19.376 ± 34.371 $\chi^2/\text{NDF}: 12.2/43$

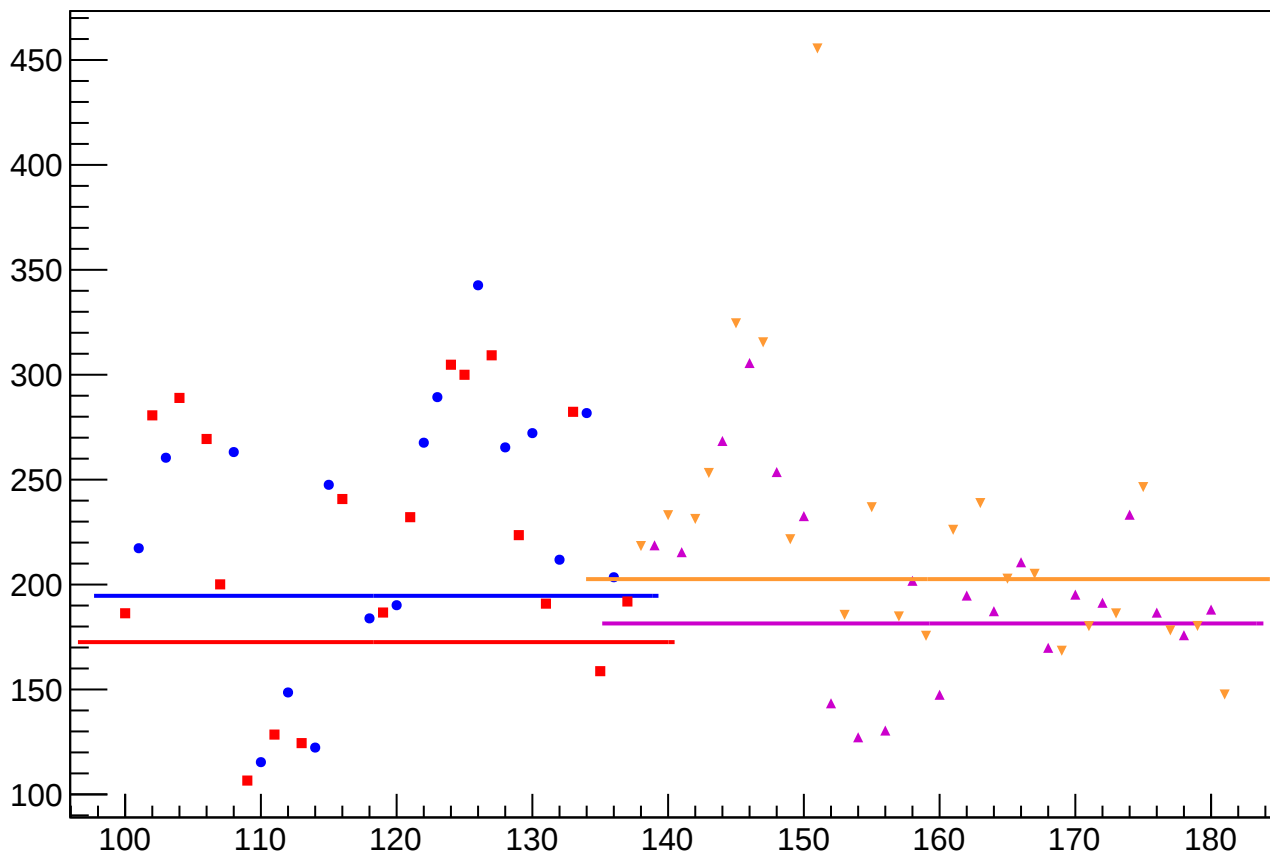
Right: 21.361 ± 52.728 $\chi^2/\text{NDF}: 13.7/35$

In: 48.588 ± 40.519 $\chi^2/\text{NDF}: 13.5/37$

Out: -9.228 ± 40.924 $\chi^2/\text{NDF}: 11.4/41$

All: 19.968 ± 28.794 $\chi^2/\text{NDF}: 25.9/79$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.633+/-0.056 χ^2/NDF : 1020982.9/16

Left Out: 202.594+/-0.036 χ^2/NDF : 1570500.7/22

Right Out: 172.571+/-0.050 χ^2/NDF : 1591230.2/18

Left In: 181.463+/-0.033 χ^2/NDF : 1537718.5/20

Left: 191.326+/-0.024 χ^2/NDF : 3296367.6/43

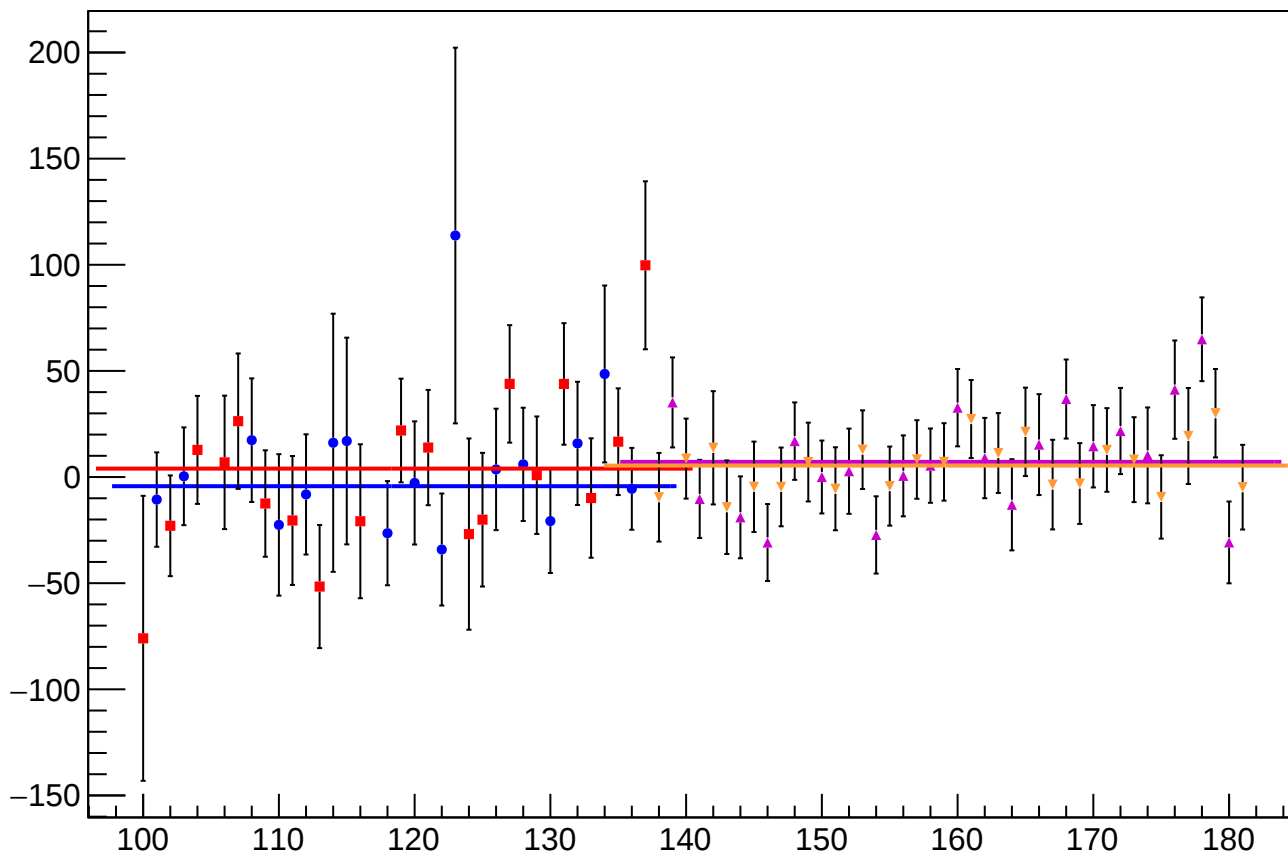
Right: 182.245+/-0.037 χ^2/NDF : 2698427.0/35

In: 184.873+/-0.029 χ^2/NDF : 2599249.0/37

Out: 192.439+/-0.029 χ^2/NDF : 3402664.2/41

All: 188.618+/-0.020 χ^2/NDF : 6036426.9/79

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.314 $\pm$ 6.887 χ^2 /NDF: 7.9/16

Left Out: 5.395 $\pm$ 4.136 χ^2 /NDF:8.0/22

Right Out: 3.970 $\pm$ 6.740 χ^2 /NDF: 20.7/18

Left In: 7.142 $\pm$ 4.241 χ^2 /NDF:33.9/20

Left: 6.247 $\pm$ 2.961 χ^2 /NDF: 41.9/43

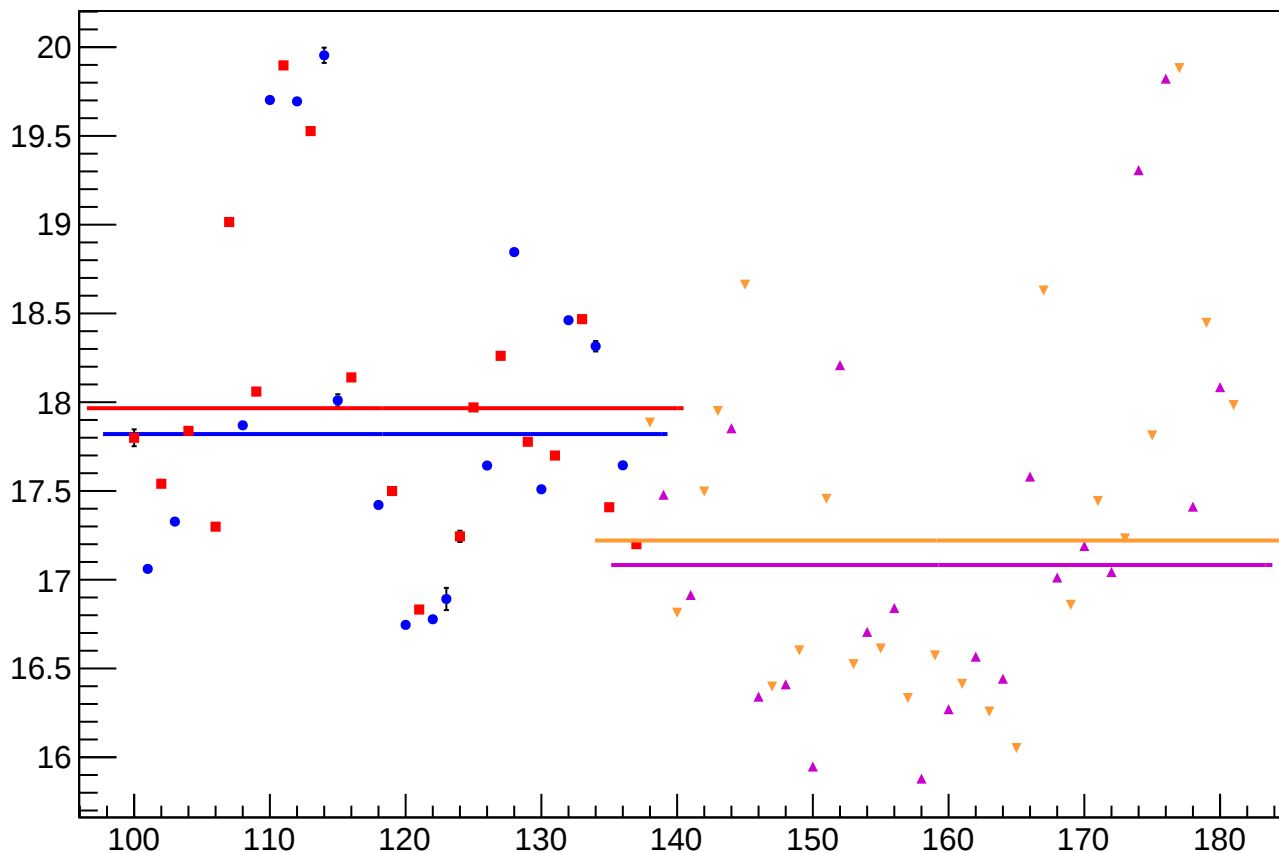
Right: -0.083 $\pm$ 4.817 χ^2 /NDF: 29.3/35

In: 3.992 $\pm$ 3.611 χ^2 /NDF:43.8/37

Out: 5.005 $\pm$ 3.526 χ^2 /NDF:28.7/41

All: 4.511 $\pm$ 2.523 χ^2 /NDF: 72.5/79

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.821 $\pm$ 0.005 χ^2 /NDF: 32283.6/16

Left Out: 17.221 $\pm$ 0.003 χ^2 /NDF: 97675.9/22

Right Out: 17.966 $\pm$ 0.005 χ^2 /NDF: 25320.4/18

Left In: 17.083 $\pm$ 0.003 χ^2 /NDF: 97349.6/20

Left: 17.153 $\pm$ 0.002 χ^2 /NDF: 196111.5/43

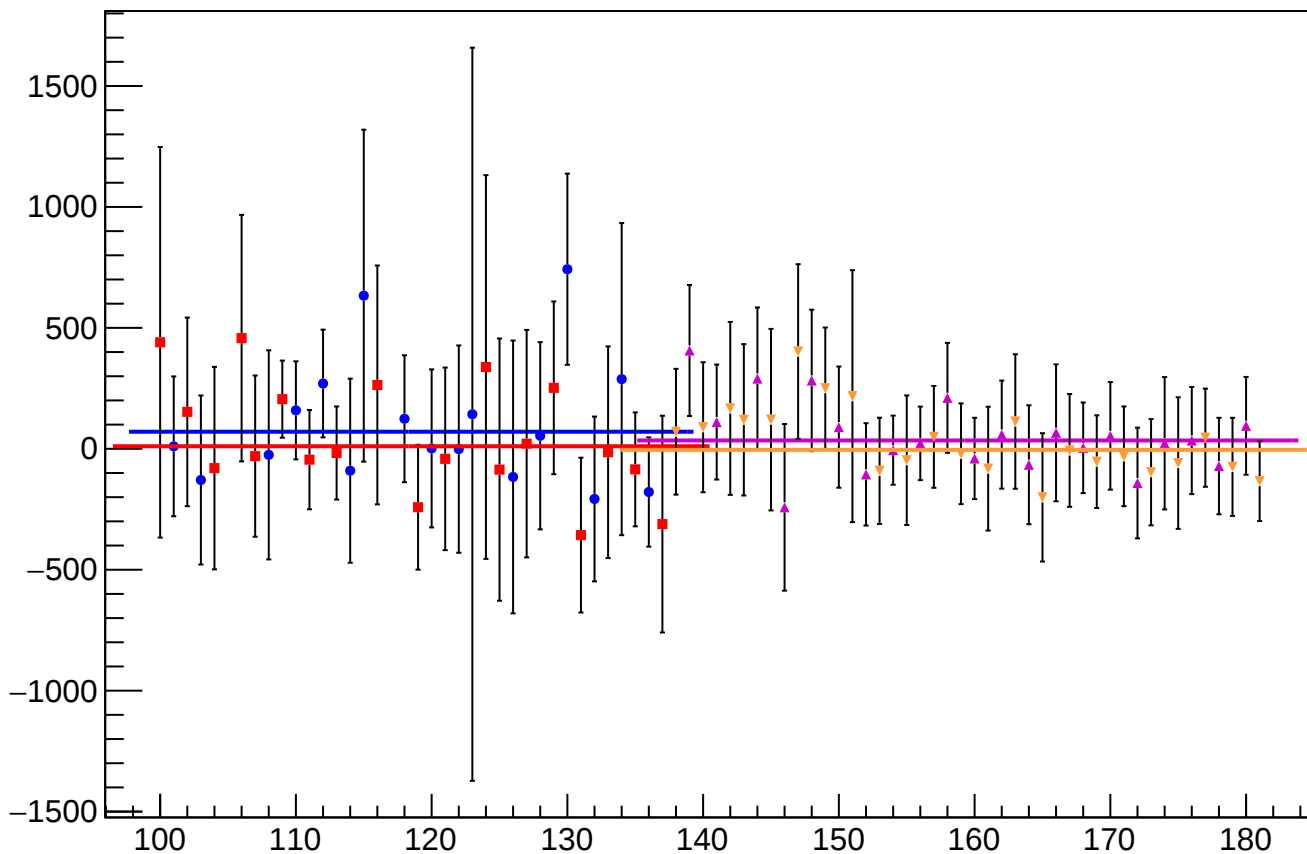
Right: 17.895 $\pm$ 0.003 χ^2 /NDF: 58060.9/35

In: 17.286 $\pm$ 0.003 χ^2 /NDF: 146275.9/37

Out: 17.425 $\pm$ 0.002 χ^2 /NDF: 140762.7/41

All: 17.357 $\pm$ 0.002 χ^2 /NDF: 288558.5/79

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 70.603+/-80.168 χ^2/NDF : 7.4/16

Left Out: -4.399+/-50.484 χ^2/NDF : 5.3/22

Right Out: 10.558+/-71.025 χ^2/NDF : 6.7/18

Left In: 34.527+/-47.220 χ^2/NDF : 6.7/20

Left: 16.363+/-34.486 χ^2/NDF : 12.3/43

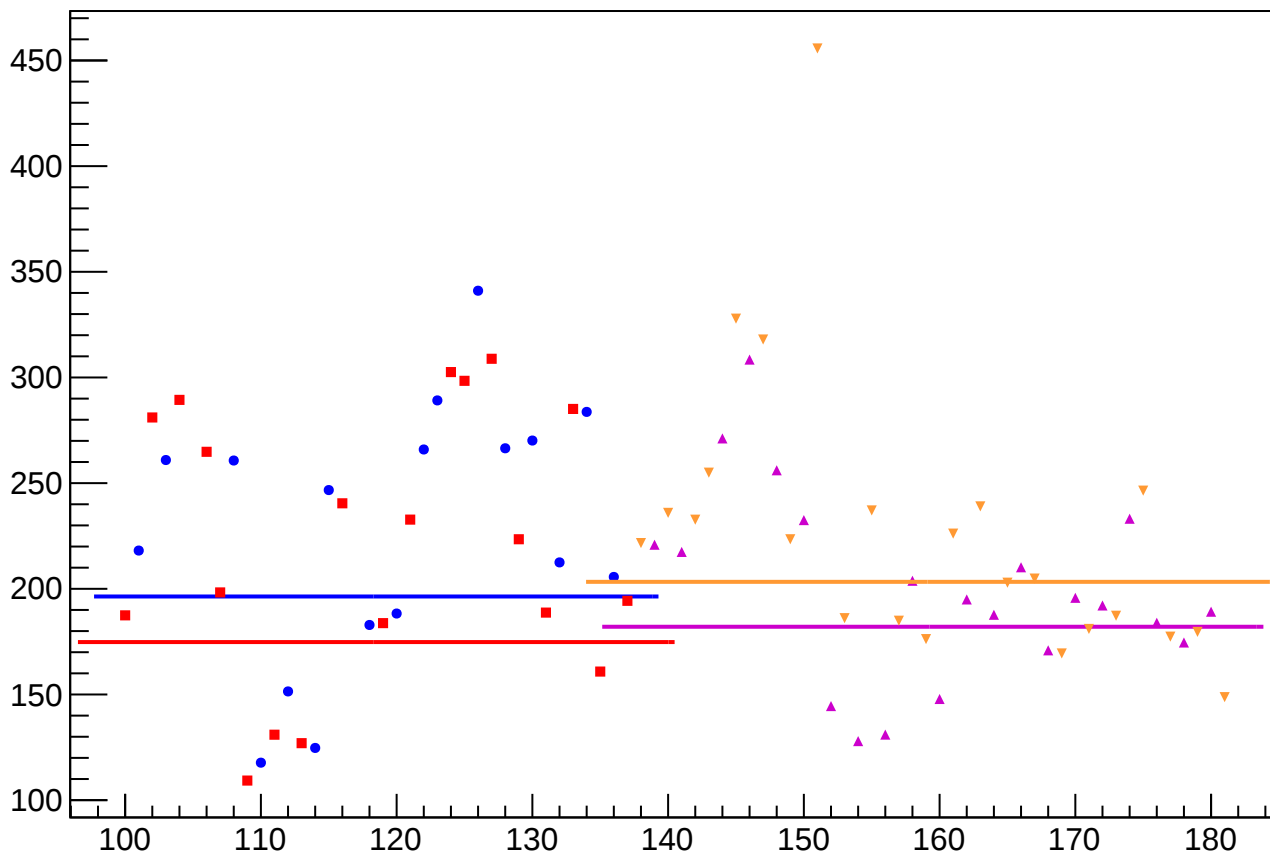
Right: 36.962+/-53.162 χ^2/NDF : 14.4/35

In: 43.819+/-40.687 χ^2/NDF : 14.2/37

Out: 0.621+/-41.149 χ^2/NDF : 12.1/41

All: 22.464+/-28.932 χ^2/NDF : 26.9/79

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.369+/-0.057 χ^2/NDF : 965962.8/16

Left Out: 203.301+/-0.036 χ^2/NDF :1579368.2/22

Right Out: 174.800+/-0.050 χ^2/NDF : 1506075.3/18

Left In: 182.050+/-0.033 χ^2/NDF :1545031.7/20

Left: 191.966+/-0.024 χ^2/NDF : 3313415.0/43

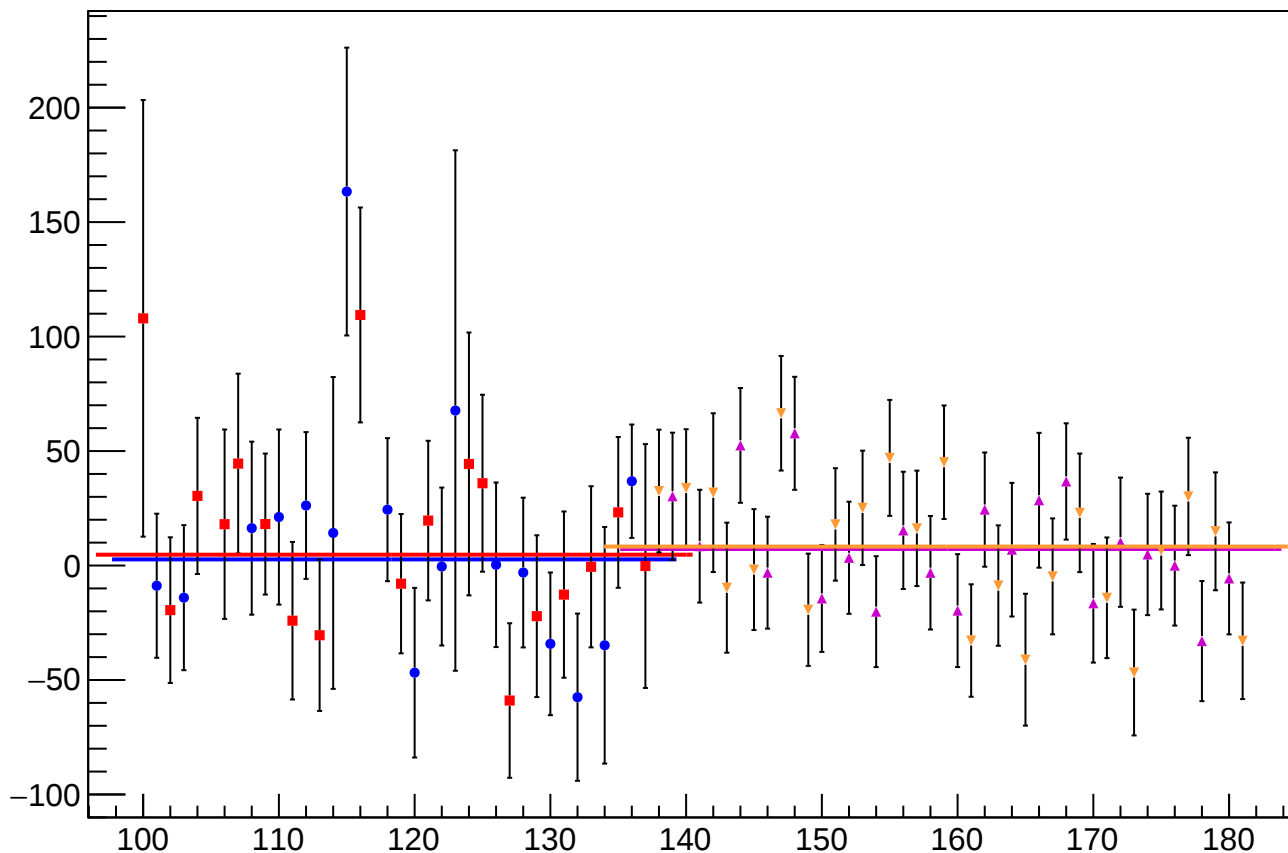
Right: 184.285+/-0.038 χ^2/NDF : 2553145.1/35

In: 185.738+/-0.029 χ^2/NDF :2558365.7/37

Out: 193.734+/-0.029 χ^2/NDF :3299388.0/41

All: 189.691+/-0.020 χ^2/NDF : 5895944.4/79

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.676 $\pm$ 8.772 χ^2 /NDF: 17.1/16

Left Out: 8.282 $\pm$ 5.431 χ^2 /NDF:29.6/22

Right Out: 4.736 $\pm$ 8.496 χ^2 /NDF: 16.6/18

Left In: 7.227 $\pm$ 5.582 χ^2 /NDF:17.8/20

Left: 7.769 $\pm$ 3.893 χ^2 /NDF: 47.5/43

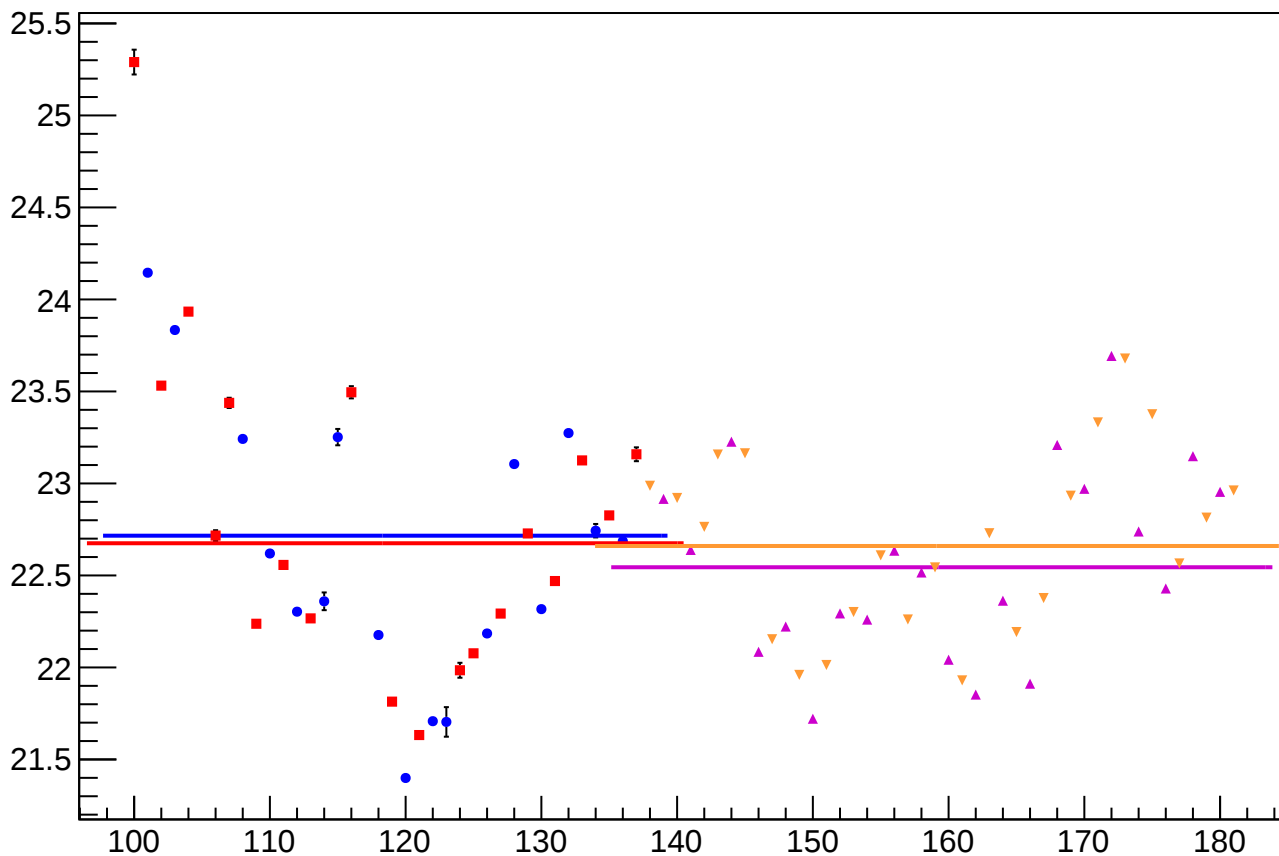
Right: 3.739 $\pm$ 6.103 χ^2 /NDF: 33.7/35

In: 5.915 $\pm$ 4.709 χ^2 /NDF:35.1/37

Out: 7.253 $\pm$ 4.576 χ^2 /NDF:46.4/41

All: 6.603 $\pm$ 3.282 χ^2 /NDF: 81.6/79

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.716 $\pm$ 0.006 χ^2 /NDF: 14058.2/16

Left Out: 22.660 $\pm$ 0.004 χ^2 /NDF:15429.7/22

Right Out: 22.675 $\pm$ 0.006 χ^2 /NDF: 12796.3/18

Left In: 22.545 $\pm$ 0.004 χ^2 /NDF:16274.6/20

Left: 22.604 $\pm$ 0.003 χ^2 /NDF: 32144.4/43

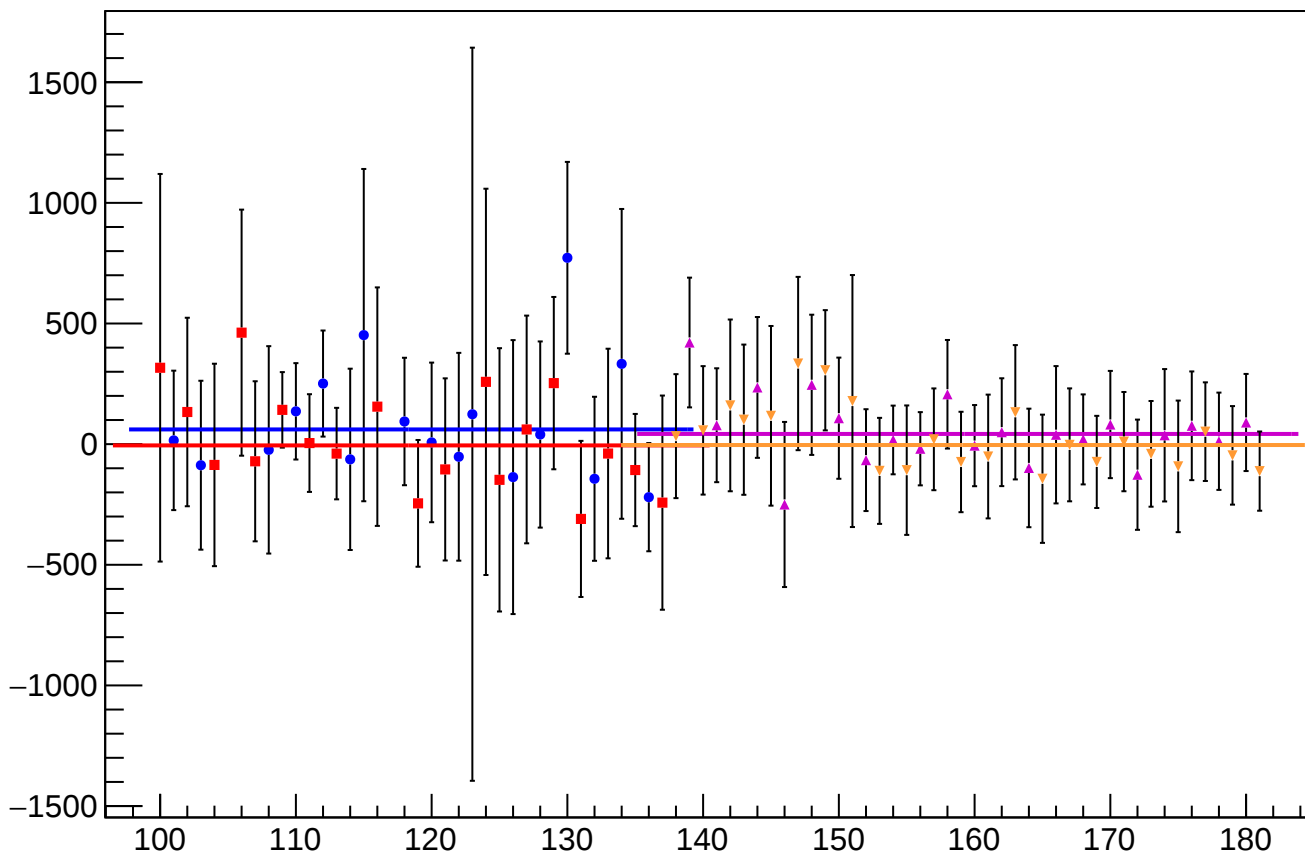
Right: 22.695 $\pm$ 0.004 χ^2 /NDF: 26877.1/35

In: 22.594 $\pm$ 0.003 χ^2 /NDF:30876.9/37

Out: 22.664 $\pm$ 0.003 χ^2 /NDF:28230.3/41

All: 22.630 $\pm$ 0.002 χ^2 /NDF: 59337.3/79

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.977 $\pm$ 79.827 χ^2 /NDF: 7.1/16

Left Out: -3.659 $\pm$ 50.424 χ^2 /NDF: 4.9/22

Right Out: -5.234 $\pm$ 70.529 χ^2 /NDF: 5.2/18

Left In: 42.273 $\pm$ 47.168 χ^2 /NDF: 5.8/20

Left: 20.837 $\pm$ 34.446 χ^2 /NDF: 11.2/43

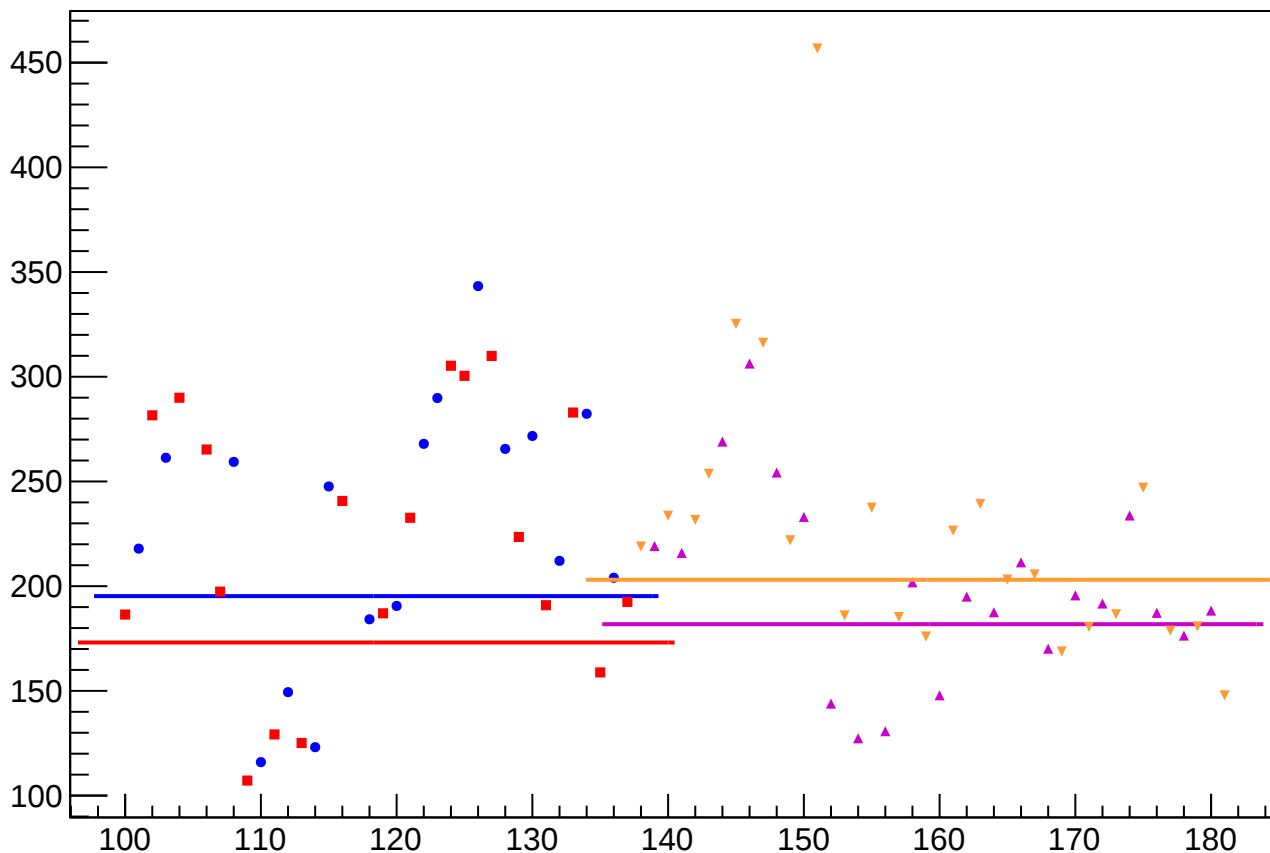
Right: 23.793 $\pm$ 52.855 χ^2 /NDF: 12.7/35

In: 47.113 $\pm$ 40.609 χ^2 /NDF: 13.0/37

Out: -4.192 $\pm$ 41.019 χ^2 /NDF: 10.2/41

All: 21.718 $\pm$ 28.859 χ^2 /NDF: 23.9/79

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.248+/-0.056 χ^2/NDF : 1005332.5/16

Left Out: 203.060+/-0.036 χ^2/NDF : 1570514.5/22

Right Out: 173.101+/-0.050 χ^2/NDF : 1572691.1/18

Left In: 181.845+/-0.033 χ^2/NDF : 1537481.5/20

Left: 191.745+/-0.024 χ^2/NDF : 3296820.9/43

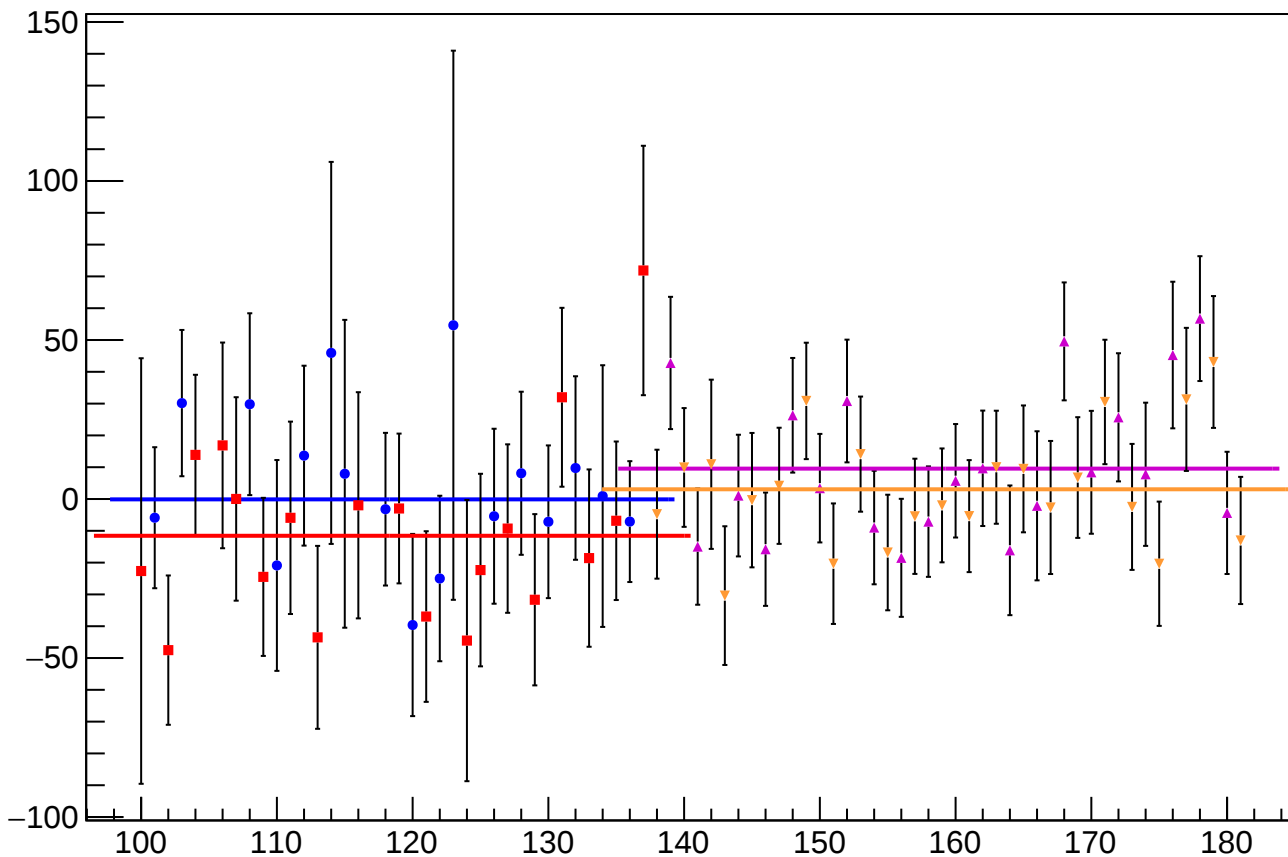
Right: 182.810+/-0.037 χ^2/NDF : 2664478.8/35

In: 185.313+/-0.029 χ^2/NDF : 2584608.2/37

Out: 192.927+/-0.029 χ^2/NDF : 3382011.2/41

All: 189.082+/-0.020 χ^2/NDF : 6001416.3/79

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.111 ± 6.786 χ^2/NDF : 7.9/16

Left Out: 3.056 ± 4.061 χ^2/NDF : 18.5/22

Right Out: -11.560 ± 6.642 χ^2/NDF : 15.2/18

Left In: 9.556 ± 4.176 χ^2/NDF : 29.0/20

Left: 6.216 ± 2.911 χ^2/NDF : 48.7/43

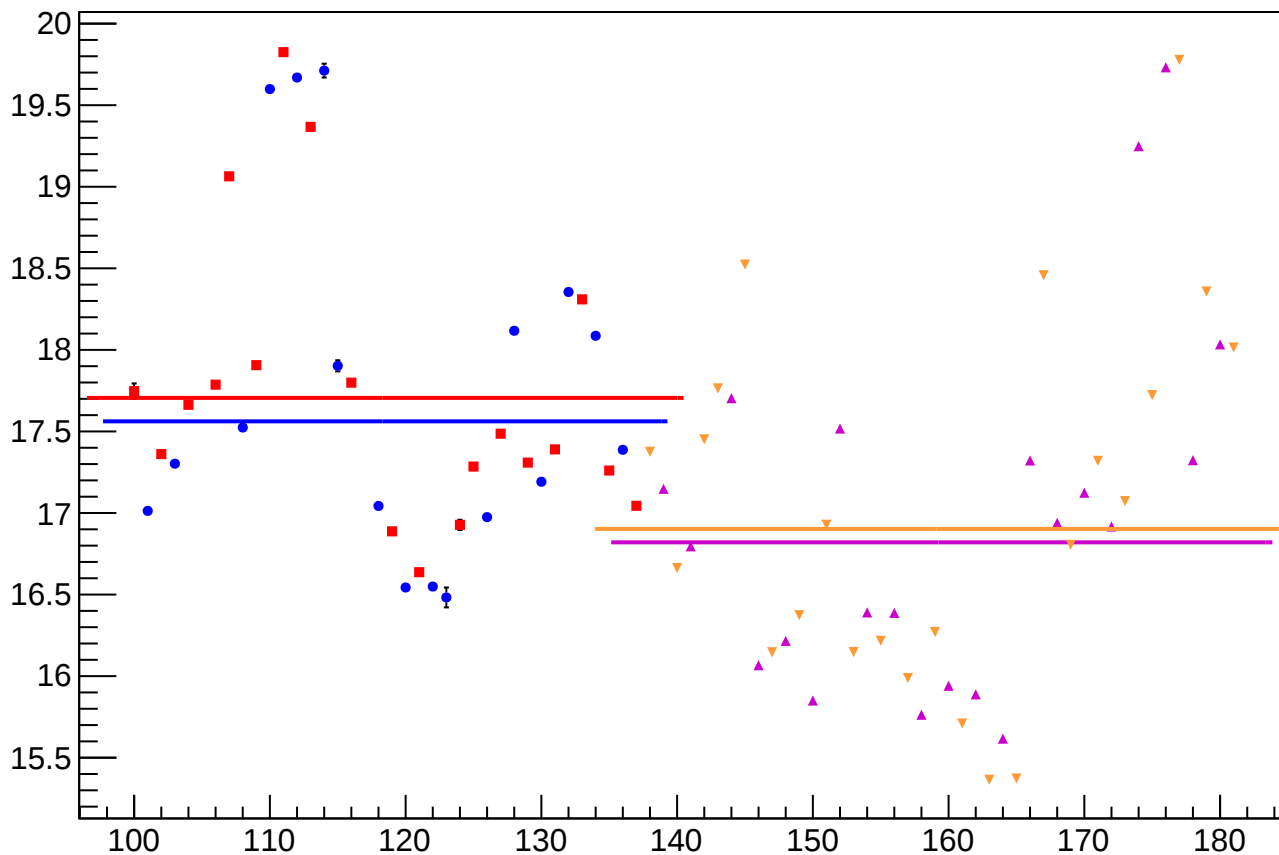
Right: -5.959 ± 4.747 χ^2/NDF : 24.5/35

In: 6.901 ± 3.556 χ^2/NDF : 38.3/37

Out: -0.922 ± 3.465 χ^2/NDF : 37.2/41

All: 2.888 ± 2.482 χ^2/NDF : 78.0/79

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.562 $\pm$ 0.005 χ^2 /NDF: 33937.0/16

Left Out: 16.903 $\pm$ 0.003 χ^2 /NDF:136494.5/22

Right Out: 17.706 $\pm$ 0.005 χ^2 /NDF: 30251.5/18

Left In: 16.820 $\pm$ 0.003 χ^2 /NDF:112435.5/20

Left: 16.863 $\pm$ 0.002 χ^2 /NDF: 249331.4/43

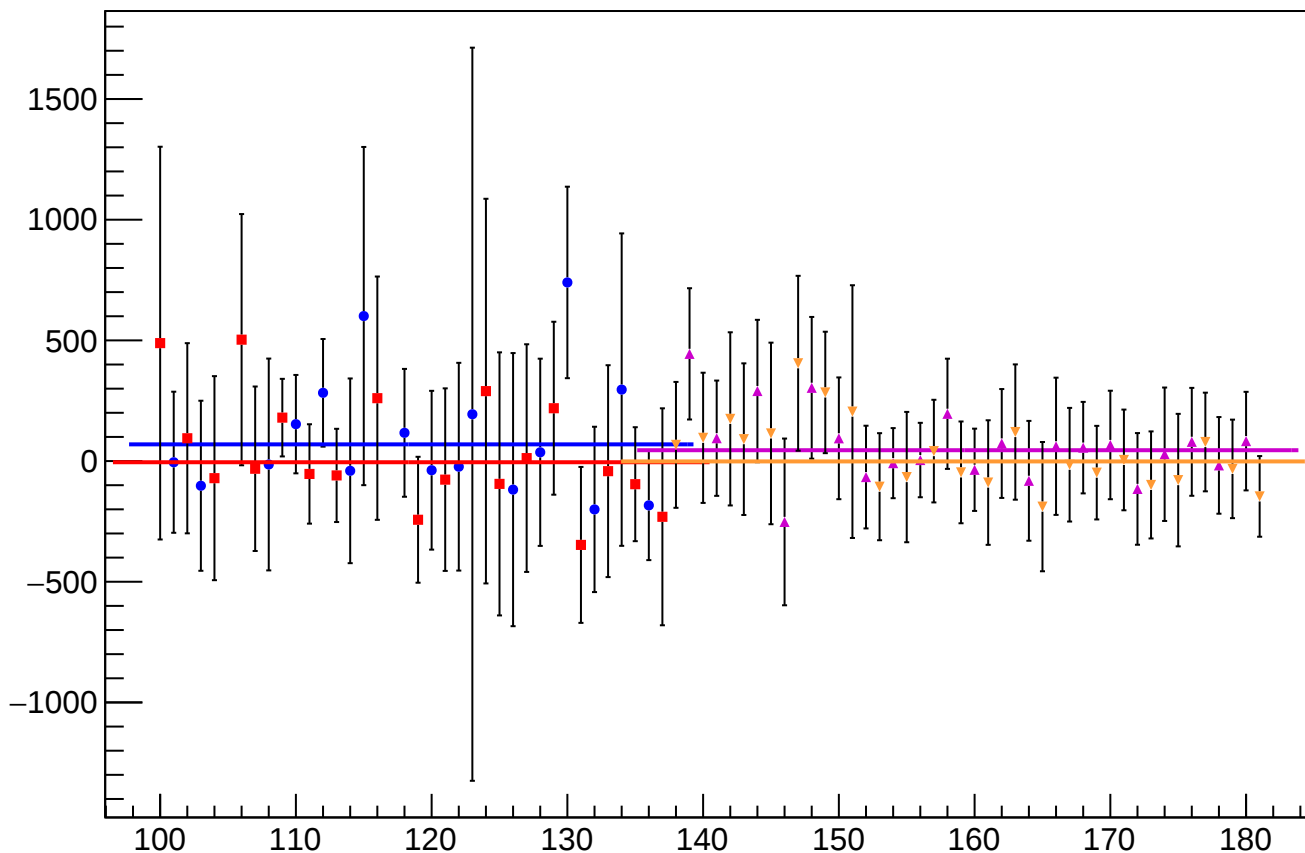
Right: 17.635 $\pm$ 0.003 χ^2 /NDF: 64646.6/35

In: 17.024 $\pm$ 0.003 χ^2 /NDF:163706.5/37

Out: 17.121 $\pm$ 0.002 χ^2 /NDF:188020.5/41

All: 17.074 $\pm$ 0.002 χ^2 /NDF: 352495.5/79

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.218 $\pm$ 80.633 χ^2 /NDF: 7.2/16

Left Out: -1.433 $\pm$ 50.910 χ^2 /NDF: 5.8/22

Right Out: -4.849 $\pm$ 71.521 χ^2 /NDF: 6.1/18

Left In: 44.967 $\pm$ 47.671 χ^2 /NDF: 6.5/20

Left: 23.290 $\pm$ 34.797 χ^2 /NDF: 12.7/43

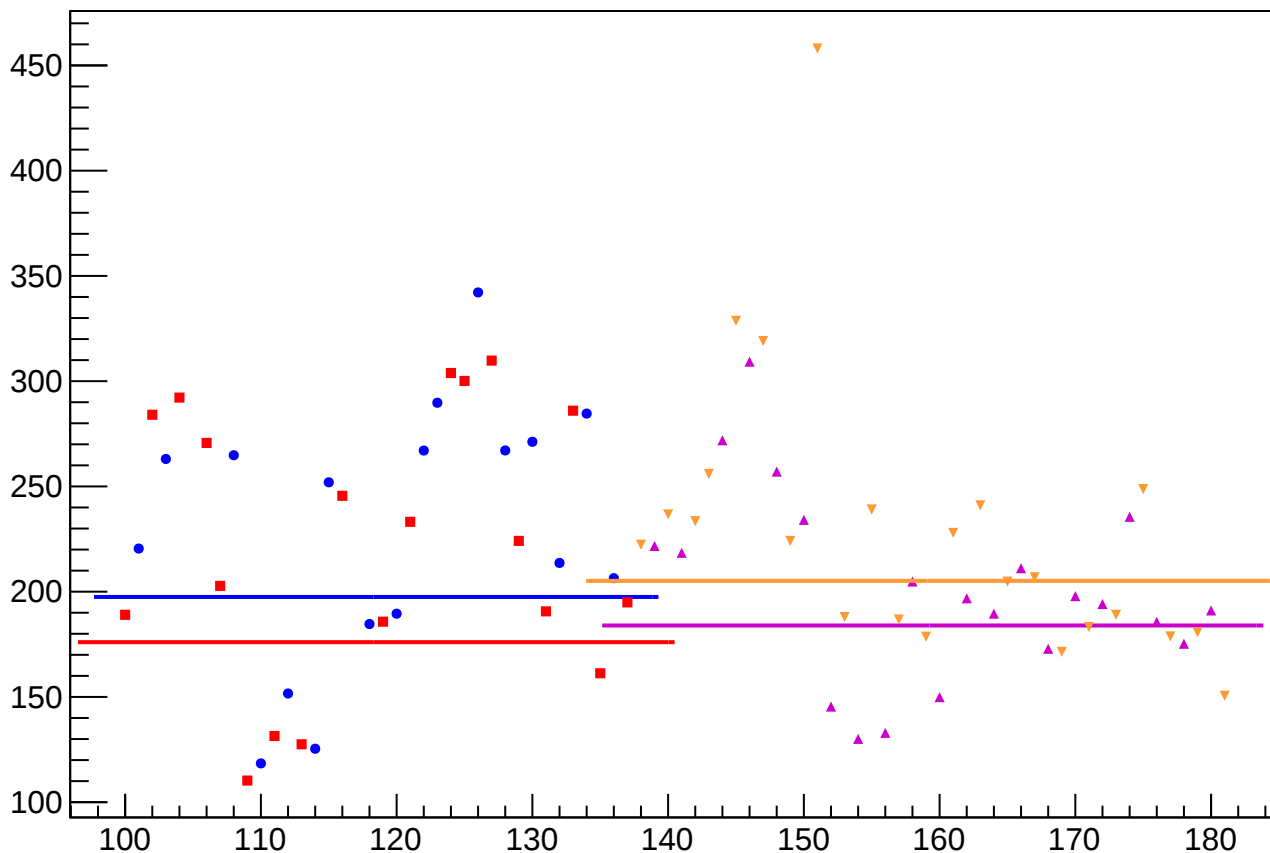
Right: 27.765 $\pm$ 53.506 χ^2 /NDF: 13.8/35

In: 51.248 $\pm$ 41.036 χ^2 /NDF: 13.8/37

Out: -2.582 $\pm$ 41.476 χ^2 /NDF: 11.9/41

All: 24.620 $\pm$ 29.171 χ^2 /NDF: 26.5/79

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.498 $\pm$ 0.057 χ^2 /NDF: 970879.0/16

Left Out: 205.137 $\pm$ 0.036 χ^2 /NDF:1549723.3/22

Right Out: 176.016 $\pm$ 0.051 χ^2 /NDF: 1514778.3/18

Left In: 183.941 $\pm$ 0.034 χ^2 /NDF:1501305.2/20

Left: 193.843 $\pm$ 0.025 χ^2 /NDF: 3235749.2/43

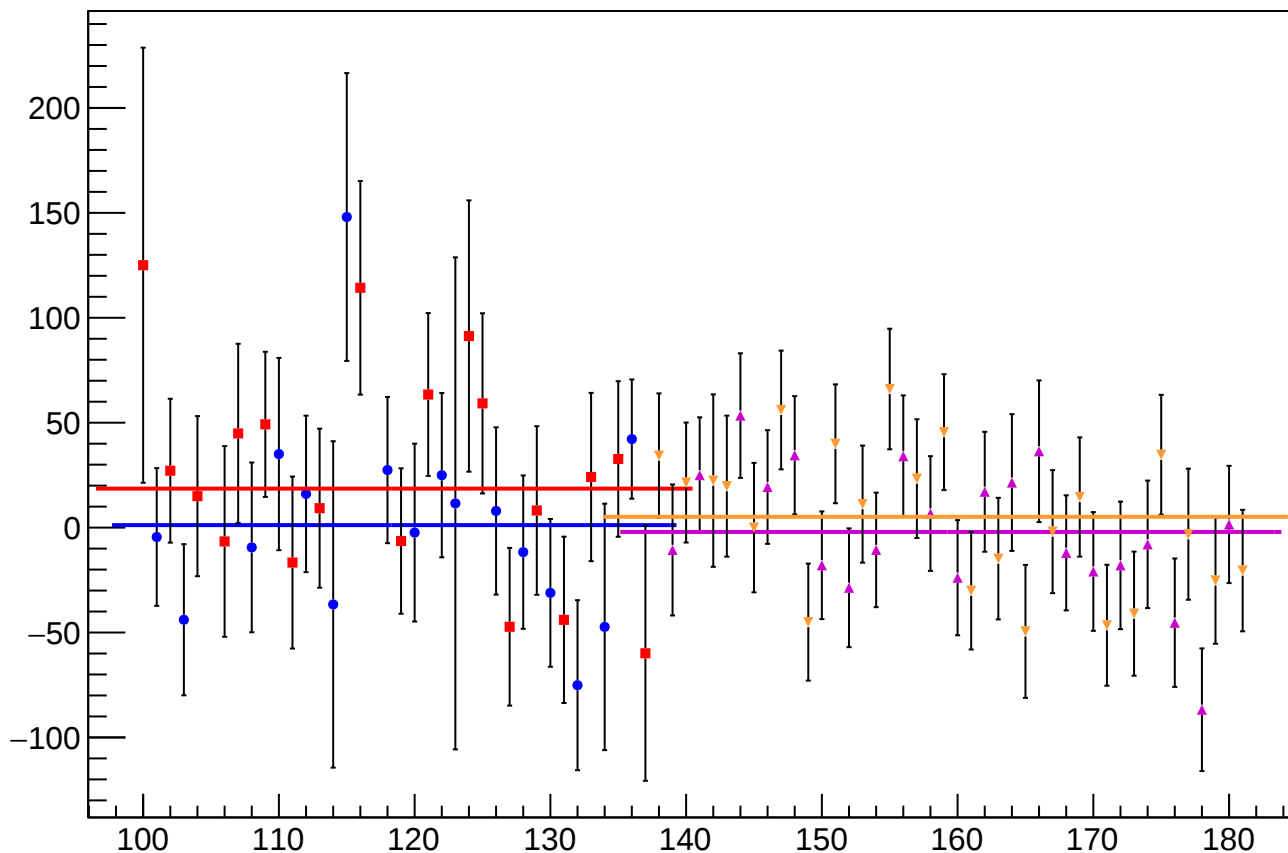
Right: 185.475 $\pm$ 0.038 χ^2 /NDF: 2565103.3/35

In: 187.452 $\pm$ 0.029 χ^2 /NDF:2514074.3/37

Out: 195.344 $\pm$ 0.029 χ^2 /NDF:3284571.8/41

All: 191.356 $\pm$ 0.021 χ^2 /NDF: 5835235.6/79

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.189 $\pm$ 9.848 χ^2/NDF : 15.4/16

Left Out: 5.148 $\pm$ 6.145 χ^2/NDF :30.5/22

Right Out: 18.582 $\pm$ 9.518 χ^2/NDF : 18.4/18

Left In: -2.067 $\pm$ 6.278 χ^2/NDF :24.1/20

Left: 1.617 $\pm$ 4.392 χ^2/NDF : 55.3/43

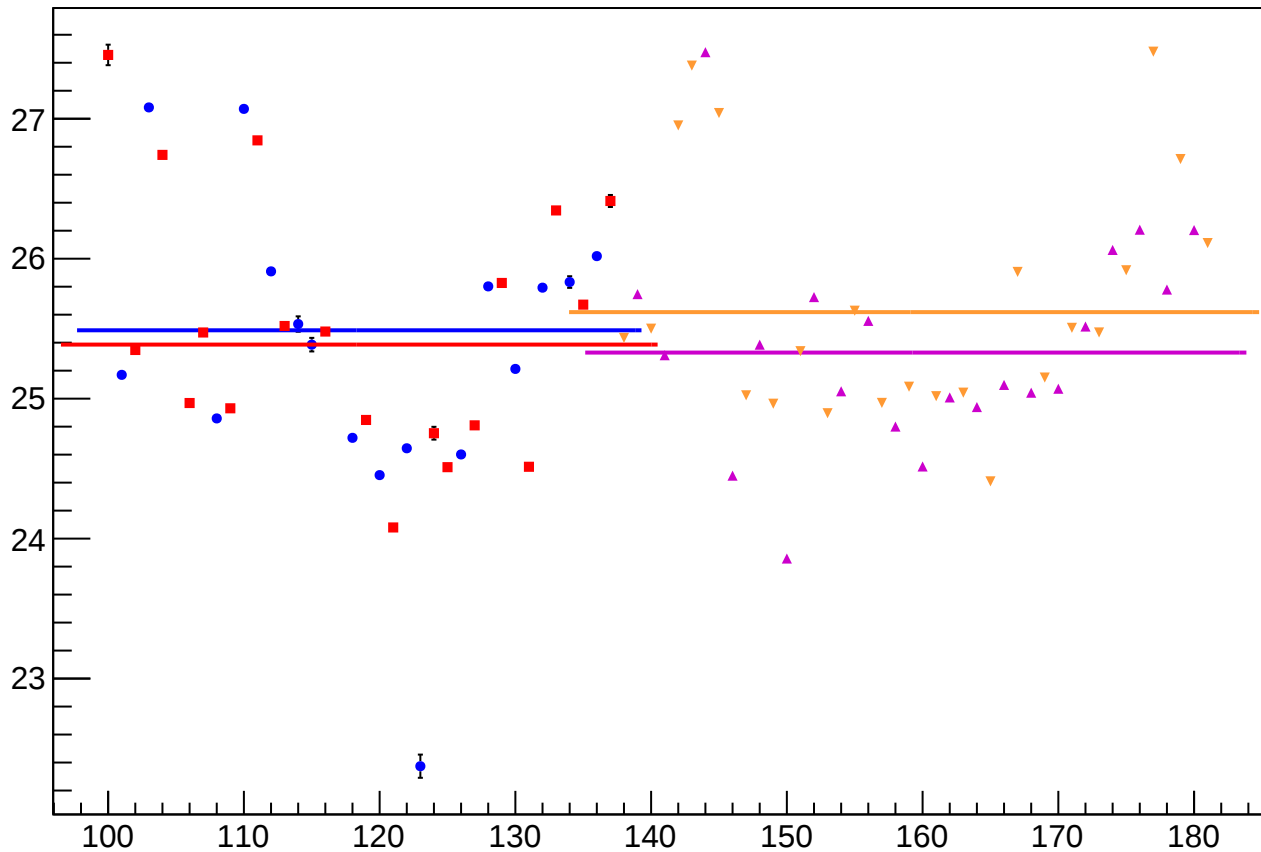
Right: 10.182 $\pm$ 6.844 χ^2/NDF : 35.5/35

In: -1.126 $\pm$ 5.294 χ^2/NDF :39.6/37

Out: 9.101 $\pm$ 5.163 χ^2/NDF :50.3/41

All: 4.115 $\pm$ 3.696 χ^2/NDF : 91.8/79

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.488 $\pm$ 0.007 χ^2 /NDF: 13867.7/16

Left Out: 25.618 $\pm$ 0.004 χ^2 /NDF:33243.6/22

Right Out: 25.386 $\pm$ 0.007 χ^2 /NDF: 13699.1/18

Left In: 25.329 $\pm$ 0.004 χ^2 /NDF:29062.5/20

Left: 25.477 $\pm$ 0.003 χ^2 /NDF: 64471.7/43

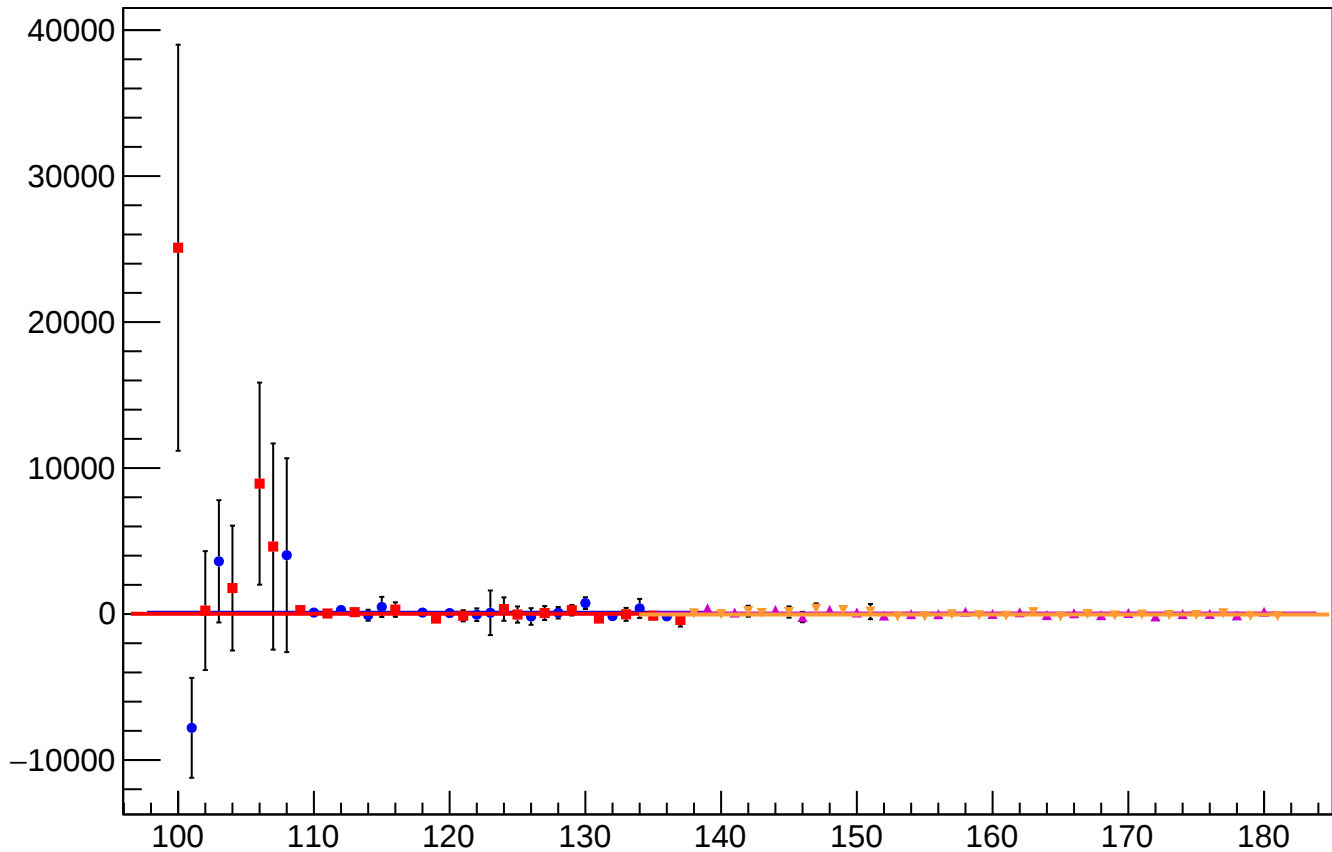
Right: 25.436 $\pm$ 0.005 χ^2 /NDF: 27678.0/35

In: 25.375 $\pm$ 0.004 χ^2 /NDF:43302.0/37

Out: 25.550 $\pm$ 0.004 χ^2 /NDF:47781.2/41

All: 25.465 $\pm$ 0.003 χ^2 /NDF: 92201.0/79

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 89.231+/-87.920 χ^2/NDF : 12.5/16

Left Out: -32.122+/-50.594 χ^2/NDF : 5.9/22

Right Out: 18.864+/-80.923 χ^2/NDF : 12.0/18

Left In: 35.532+/-48.005 χ^2/NDF : 6.8/20

Left: 3.480+/-34.824 χ^2/NDF : 13.7/43

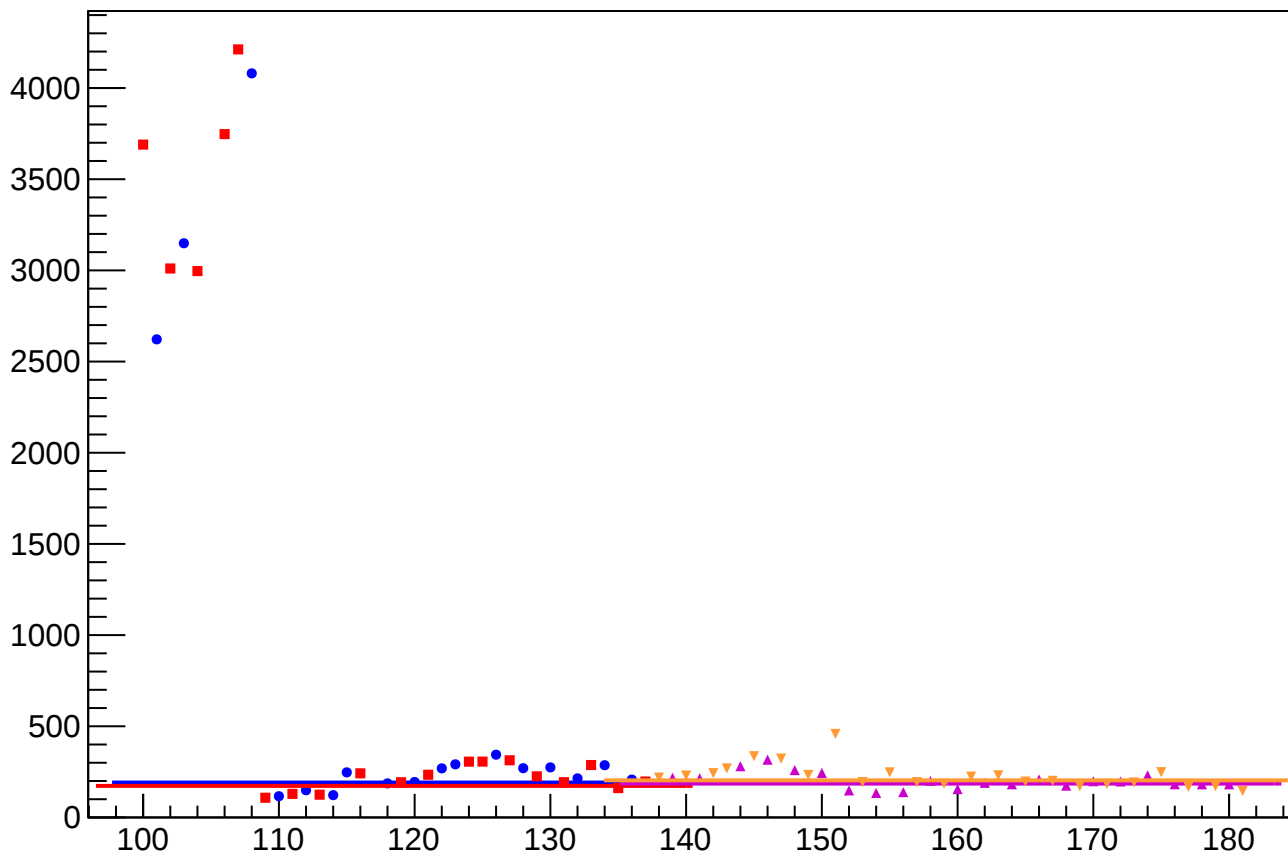
Right: 51.137+/-59.541 χ^2/NDF : 24.8/35

In: 47.864+/-42.134 χ^2/NDF : 19.6/37

Out: -17.793+/-42.899 χ^2/NDF : 18.2/41

All: 15.627+/-30.060 χ^2/NDF : 39.0/79

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.422+/-0.062 χ^2/NDF : 3573556.6/16

Left Out: 203.457+/-0.036 χ^2/NDF :1702652.2/22

Right Out: 173.068+/-0.057 χ^2/NDF : 4201509.7/18

Left In: 185.687+/-0.034 χ^2/NDF :1374707.5/20

Left: 194.106+/-0.025 χ^2/NDF : 3207201.6/43

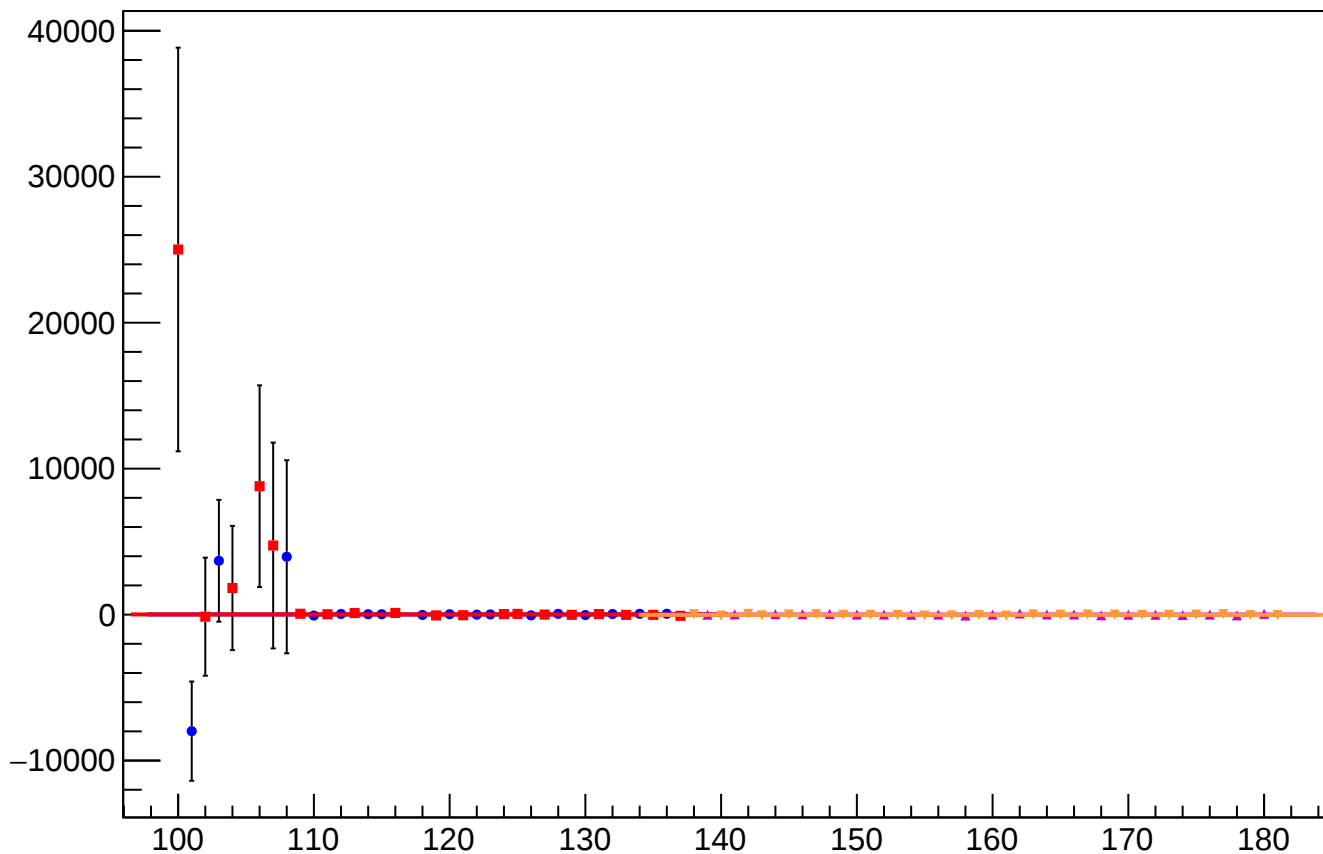
Right: 181.486+/-0.042 χ^2/NDF : 7822251.9/35

In: 187.004+/-0.030 χ^2/NDF :4954821.7/37

Out: 194.917+/-0.030 χ^2/NDF :6106937.9/41

All: 190.889+/-0.021 χ^2/NDF : 11096395.2/79

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.464+/-12.227 χ^2/NDF : 18.3/16

Left Out: -16.013+/-6.892 χ^2/NDF :19.8/22

Right Out: 11.883+/-12.264 χ^2/NDF : 23.9/18

Left In: 5.292+/-7.123 χ^2/NDF :24.3/20

Left: -5.711+/-4.953 χ^2/NDF : 48.7/43

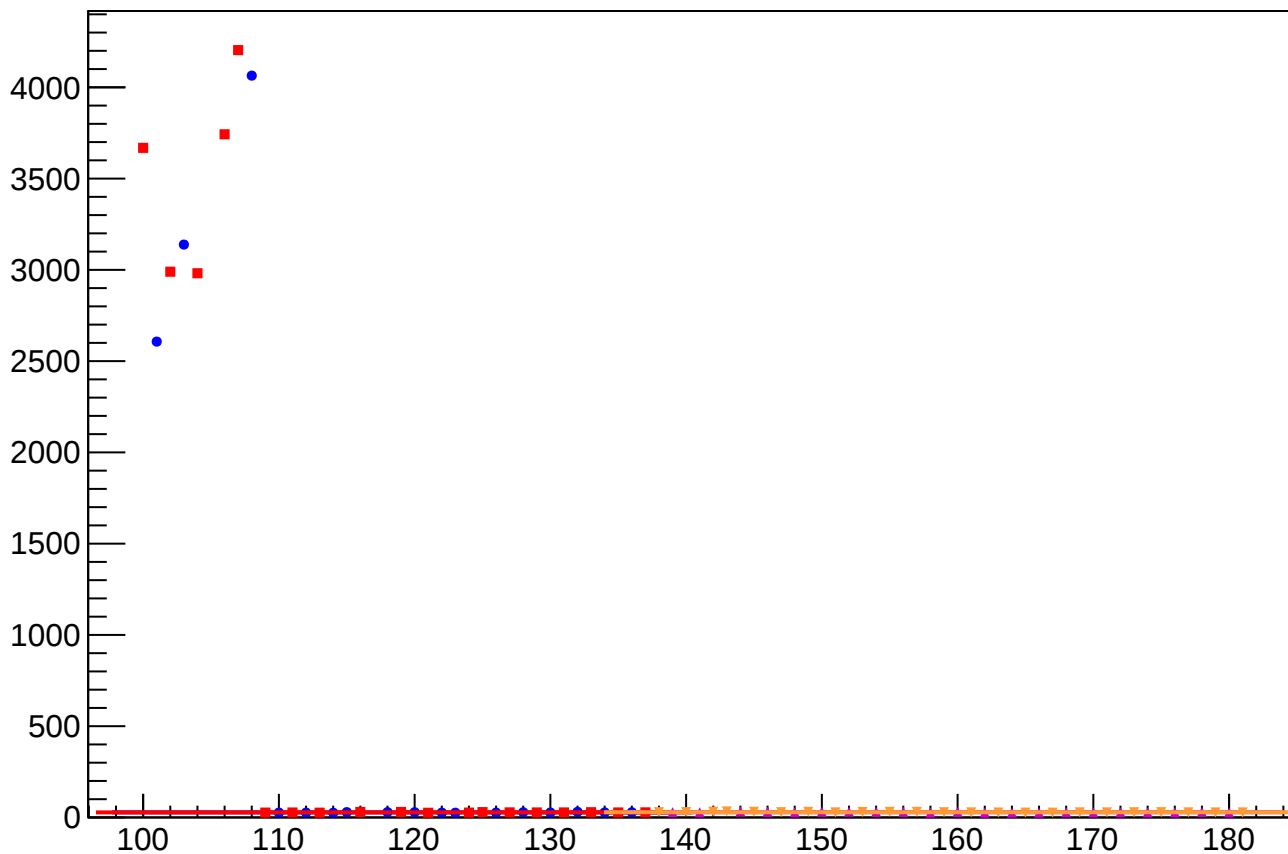
Right: 11.673+/-8.659 χ^2/NDF : 42.1/35

In: 6.856+/-6.155 χ^2/NDF :42.7/37

Out: -9.317+/-6.008 χ^2/NDF :47.7/41

All: -1.425+/-4.299 χ^2/NDF : 93.9/79

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.858+/-0.009 χ^2/NDF : 3026949.6/16

Left Out: 28.685+/-0.005 χ^2/NDF :104845.2/22

Right Out: 27.714+/-0.009 χ^2/NDF : 3476894.0/18

Left In: 28.669+/-0.005 χ^2/NDF :123730.6/20

Left: 28.677+/-0.004 χ^2/NDF : 228580.5/43

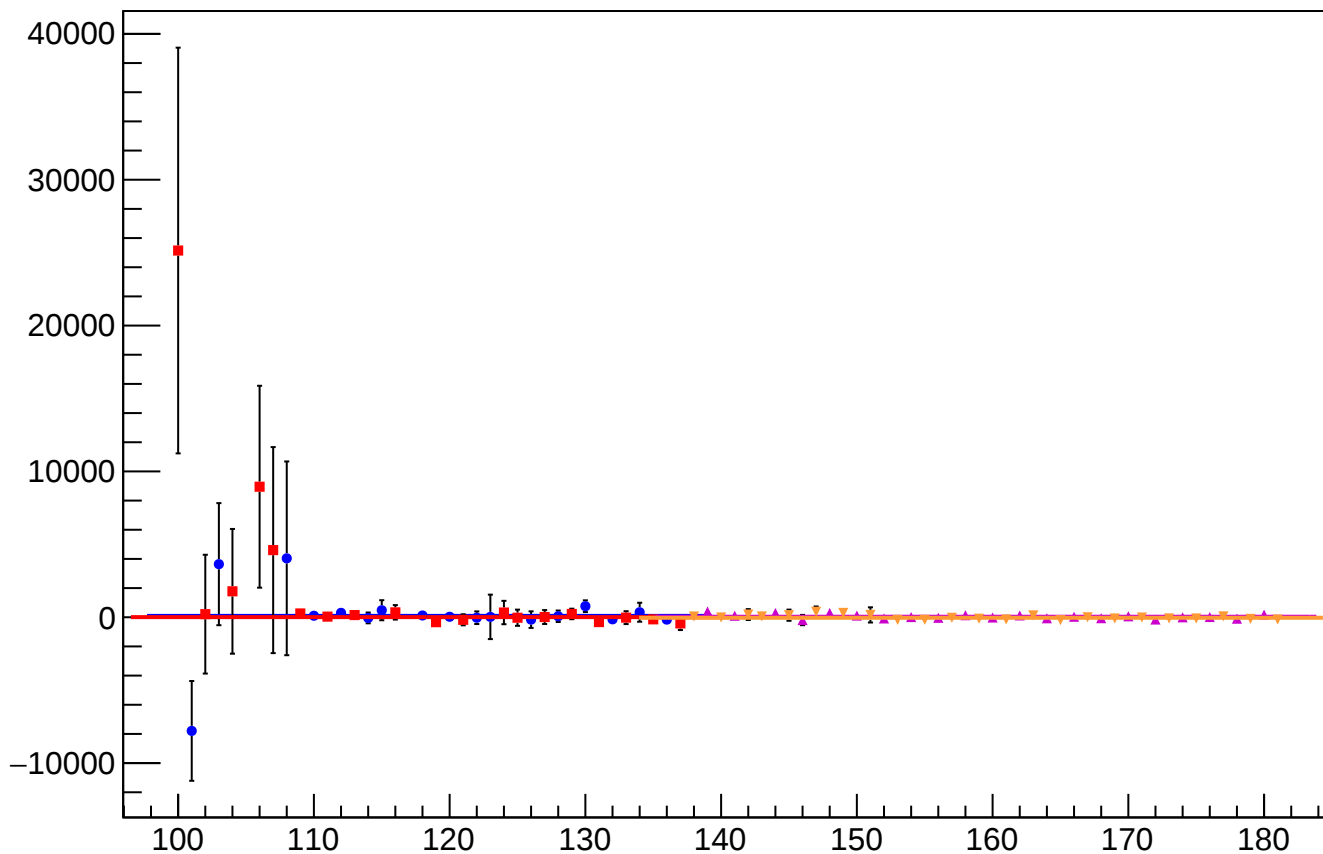
Right: 27.786+/-0.006 χ^2/NDF : 6503982.3/35

In: 28.464+/-0.004 χ^2/NDF :3157258.7/37

Out: 28.452+/-0.004 χ^2/NDF :3591265.2/41

All: 28.458+/-0.003 χ^2/NDF : 6748528.0/79

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 93.805+/-87.646 χ^2/NDF : 12.7/16

Left Out: -35.066+/-50.478 χ^2/NDF : 6.6/22

Right Out: 9.116+/-80.662 χ^2/NDF : 12.8/18

Left In: 35.668+/-47.907 χ^2/NDF : 7.1/20

Left: 2.148+/-34.749 χ^2/NDF : 14.7/43

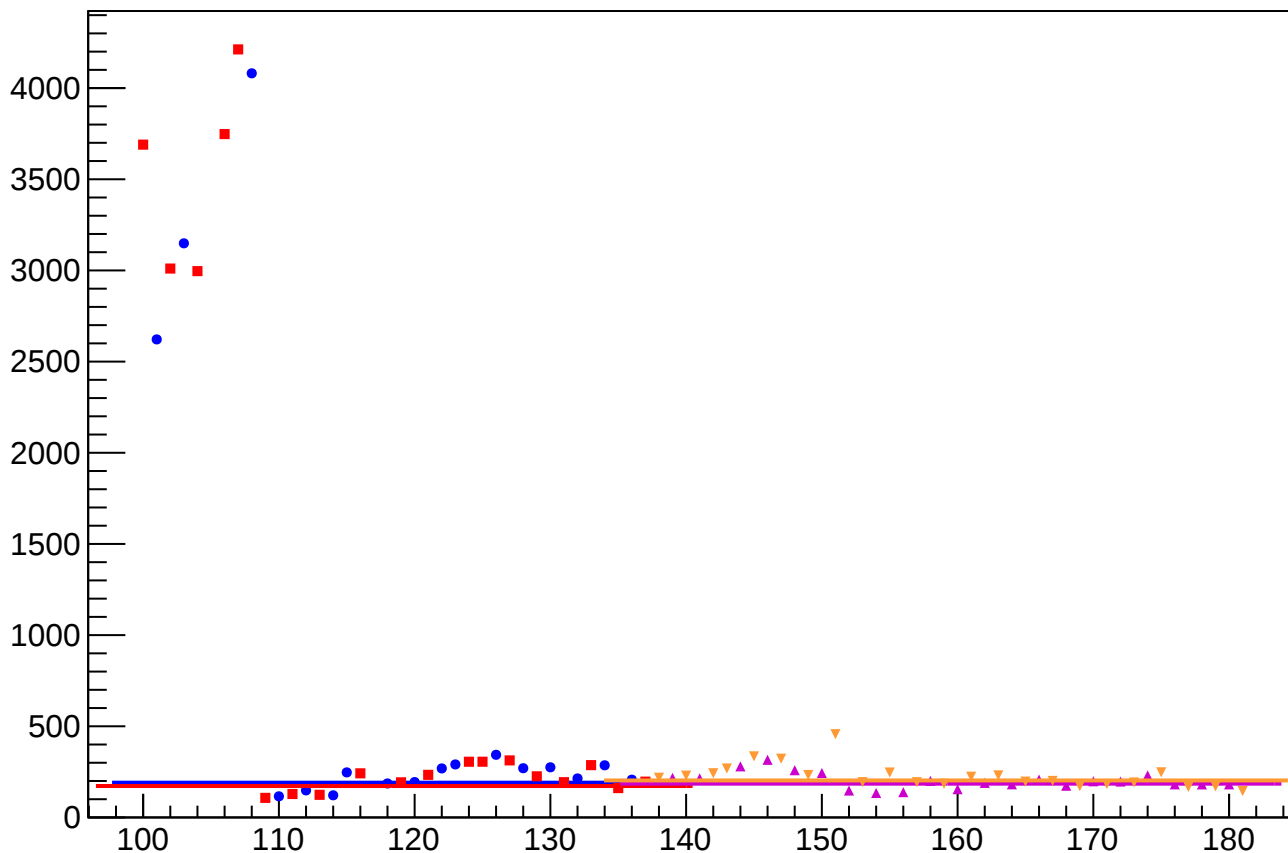
Right: 47.952+/-59.352 χ^2/NDF : 26.0/35

In: 49.042+/-42.037 χ^2/NDF : 20.1/37

Out: -22.632+/-42.790 χ^2/NDF : 19.6/41

All: 13.841+/-29.987 χ^2/NDF : 41.1/79

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.712+/-0.062 χ^2/NDF : 3585407.6/16

Left Out: 202.989+/-0.036 χ^2/NDF :1703518.4/22

Right Out: 172.402+/-0.057 χ^2/NDF : 4212674.3/18

Left In: 185.309+/-0.034 χ^2/NDF :1374557.0/20

Left: 193.687+/-0.025 χ^2/NDF : 3207159.9/43

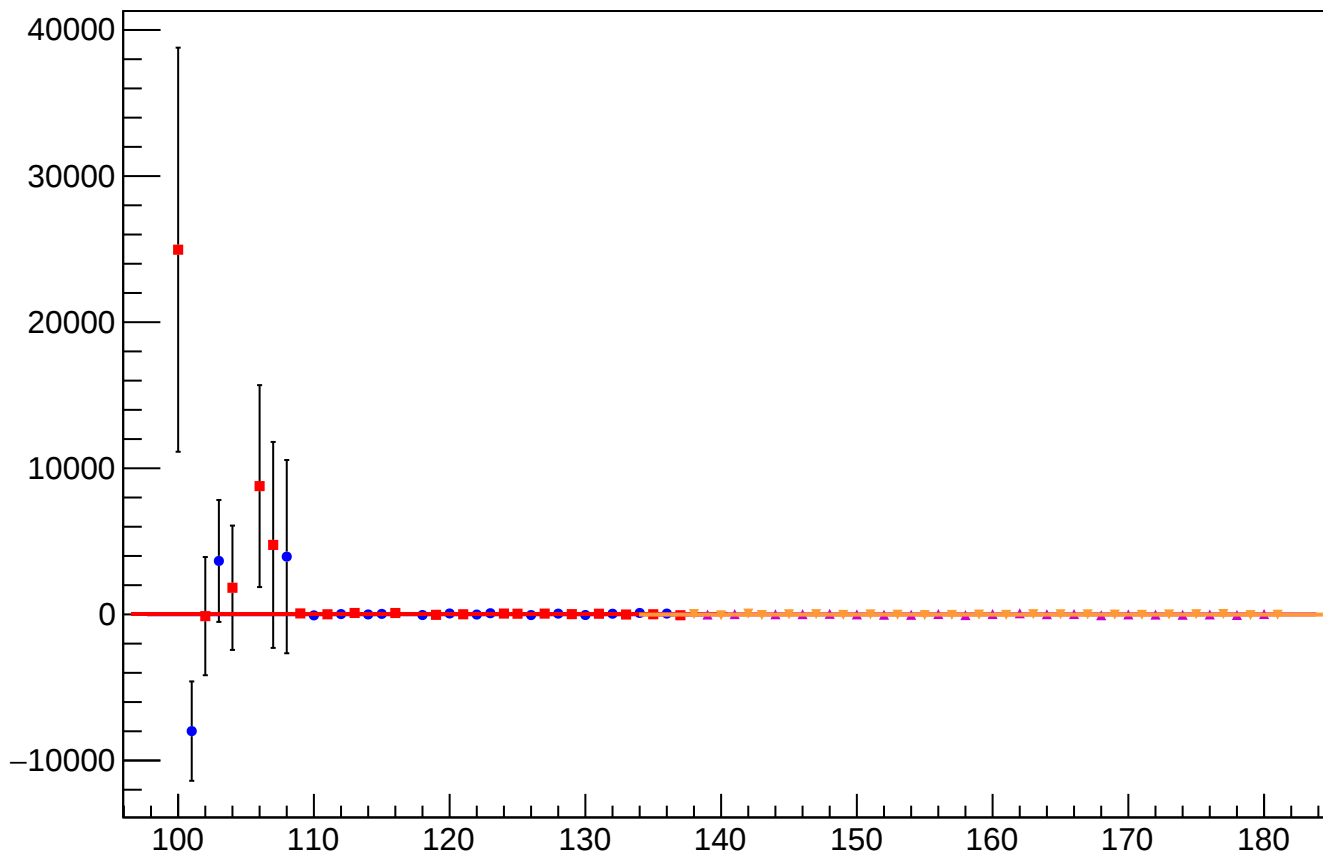
Right: 180.799+/-0.042 χ^2/NDF : 7845341.0/35

In: 186.552+/-0.030 χ^2/NDF :4965818.4/37

Out: 194.381+/-0.030 χ^2/NDF :6122840.2/41

All: 190.397+/-0.021 χ^2/NDF : 11122733.3/79

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.486+/-12.310 χ^2/NDF : 22.5/16

Left Out: -13.593+/-6.924 χ^2/NDF :14.6/22

Right Out: 28.414+/-12.365 χ^2/NDF : 16.2/18

Left In: 3.198+/-7.155 χ^2/NDF :20.8/20

Left: -5.472+/-4.976 χ^2/NDF : 38.3/43

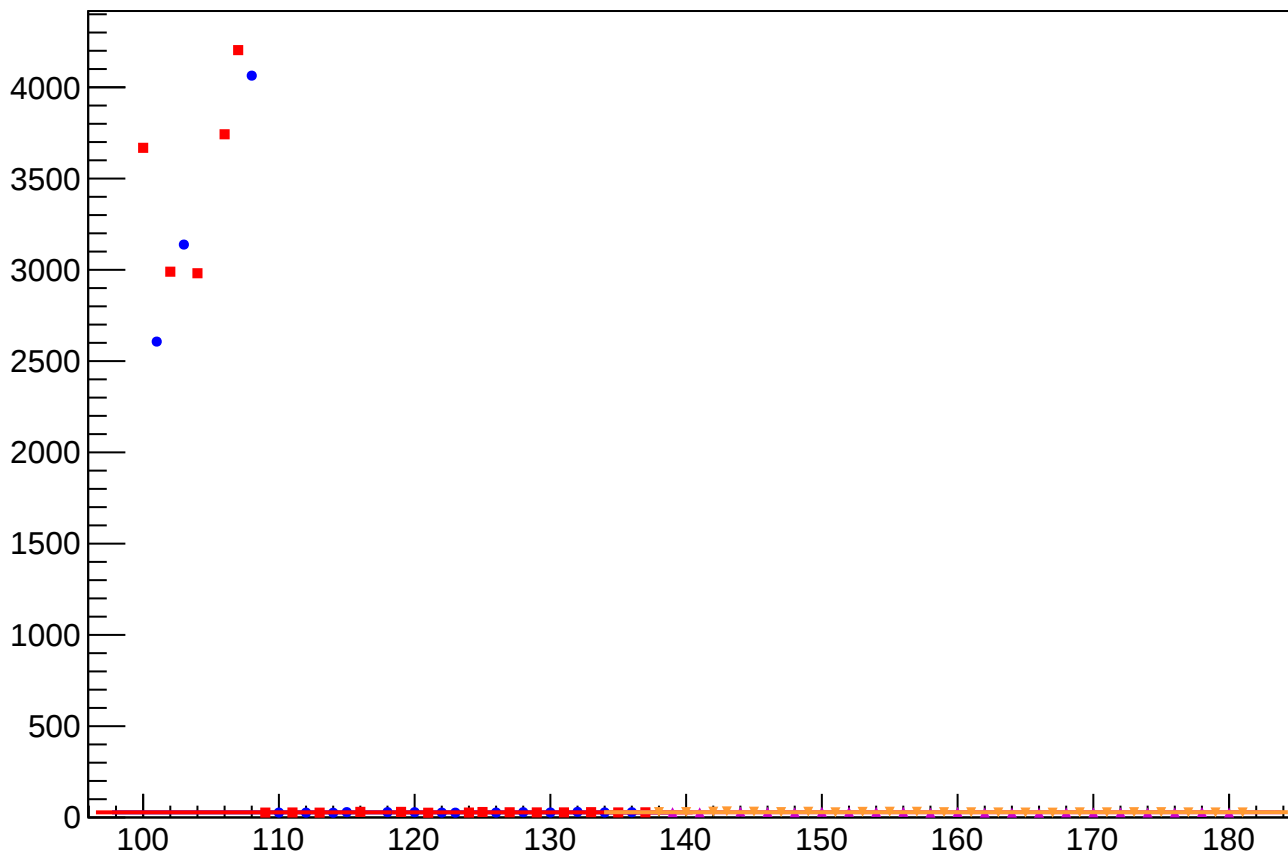
Right: 18.908+/-8.724 χ^2/NDF : 39.9/35

In: 4.786+/-6.186 χ^2/NDF :43.5/37

Out: -3.565+/-6.041 χ^2/NDF :39.6/41

All: 0.512+/-4.322 χ^2/NDF : 84.1/79

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.041 $\pm$ 0.009 χ^2 /NDF: 3027315.2/16

Left Out: 28.812 $\pm$ 0.005 χ^2 /NDF: 116068.8/22

Right Out: 27.934 $\pm$ 0.009 χ^2 /NDF: 3479779.2/18

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF: 128214.8/20

Left: 28.805 $\pm$ 0.004 χ^2 /NDF: 244288.5/43

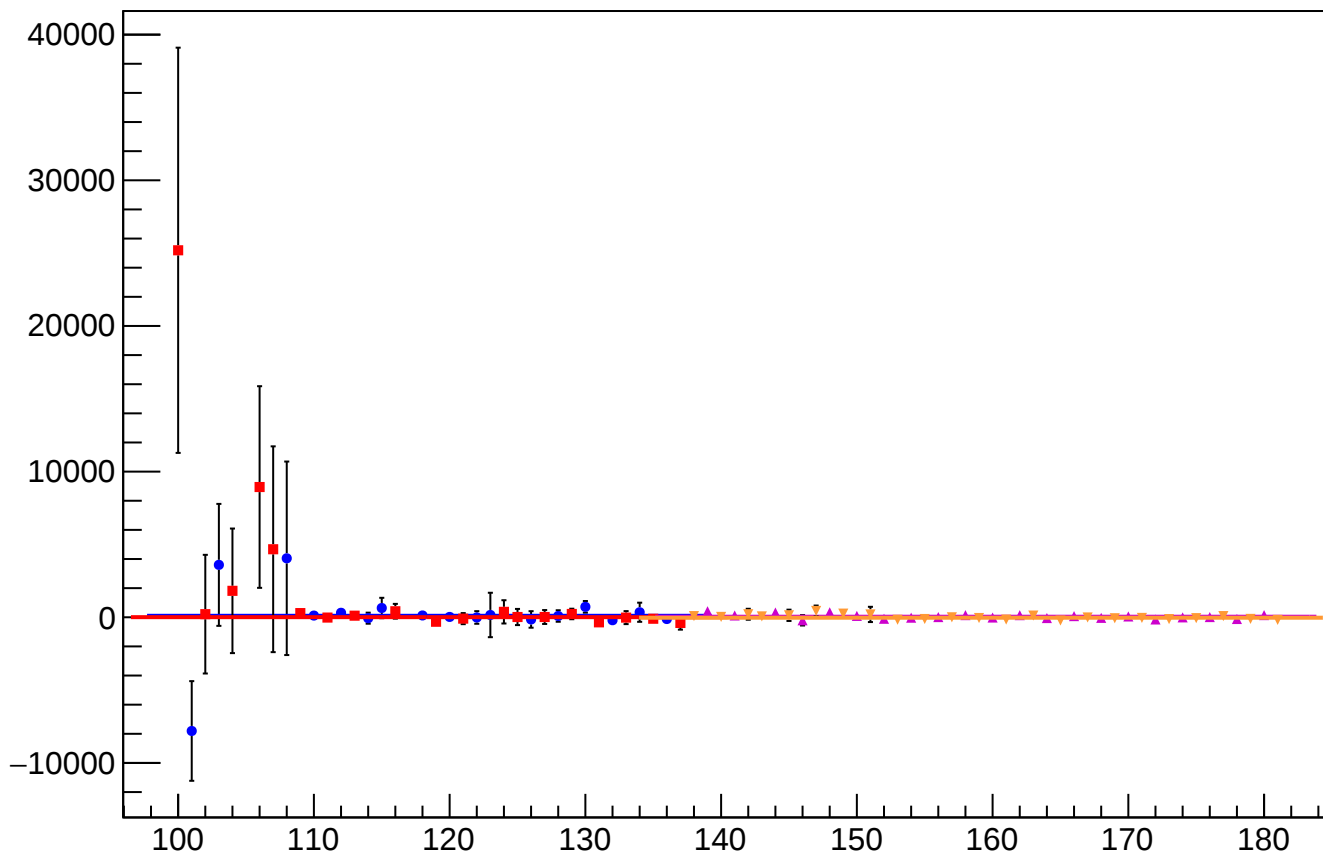
Right: 27.988 $\pm$ 0.006 χ^2 /NDF: 6507169.2/35

In: 28.606 $\pm$ 0.004 χ^2 /NDF: 3161159.0/37

Out: 28.602 $\pm$ 0.004 χ^2 /NDF: 3603517.0/41

All: 28.604 $\pm$ 0.003 χ^2 /NDF: 6764676.3/79

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 101.587+/-88.682 χ^2/NDF : 12.5/16

Left Out: -30.136+/-51.057 χ^2/NDF : 6.9/22

Right Out: 7.957+/-81.751 χ^2/NDF : 12.3/18

Left In: 38.243+/-48.488 χ^2/NDF : 7.6/20

Left: 5.818+/-35.159 χ^2/NDF : 15.4/43

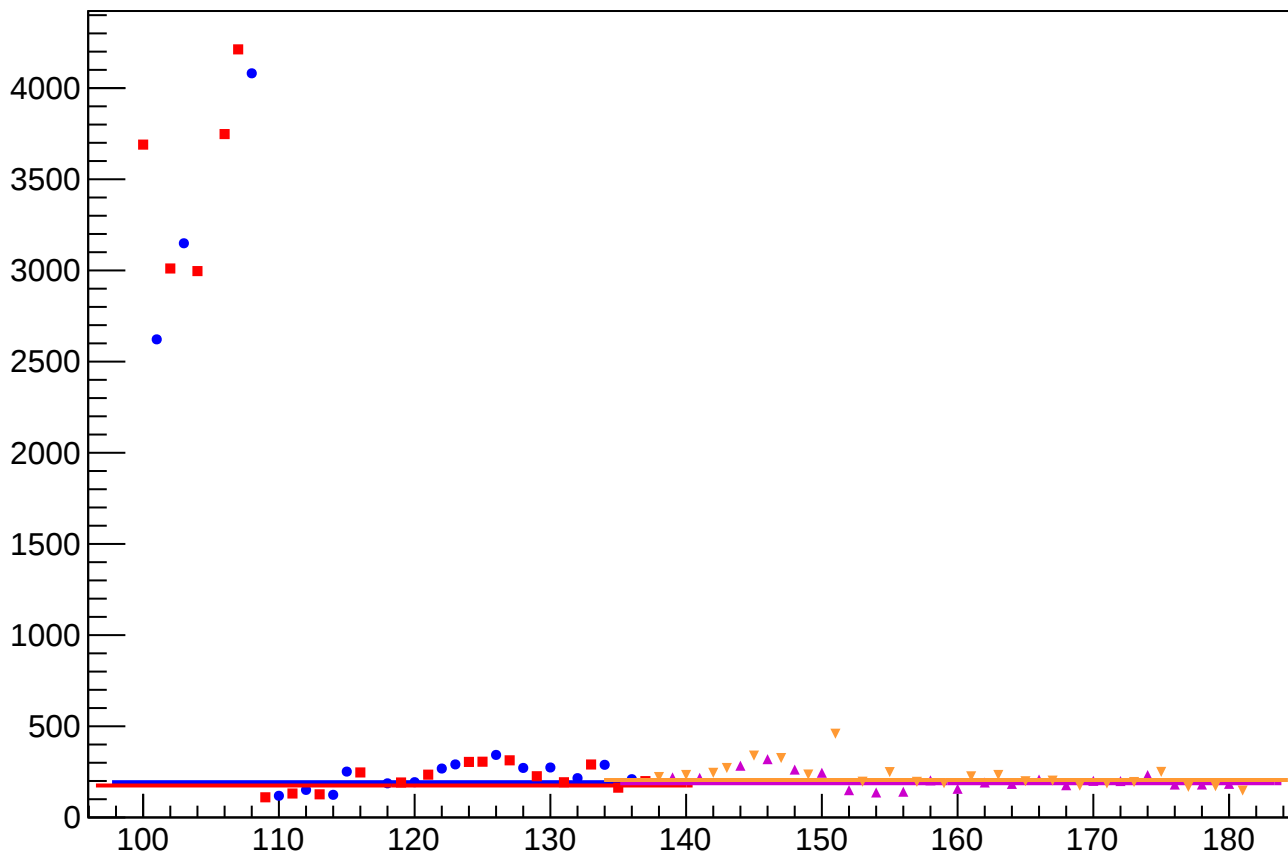
Right: 50.971+/-60.108 χ^2/NDF : 25.4/35

In: 52.821+/-42.544 χ^2/NDF : 20.5/37

Out: -19.446+/-43.305 χ^2/NDF : 19.3/41

All: 17.328+/-30.349 χ^2/NDF : 41.3/79

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.420+/-0.063 χ^2/NDF : 3538238.9/16

Left Out: 205.412+/-0.036 χ^2/NDF :1688658.0/22

Right Out: 175.281+/-0.058 χ^2/NDF : 4160209.8/18

Left In: 187.691+/-0.034 χ^2/NDF :1345724.0/20

Left: 196.094+/-0.025 χ^2/NDF : 3161068.5/43

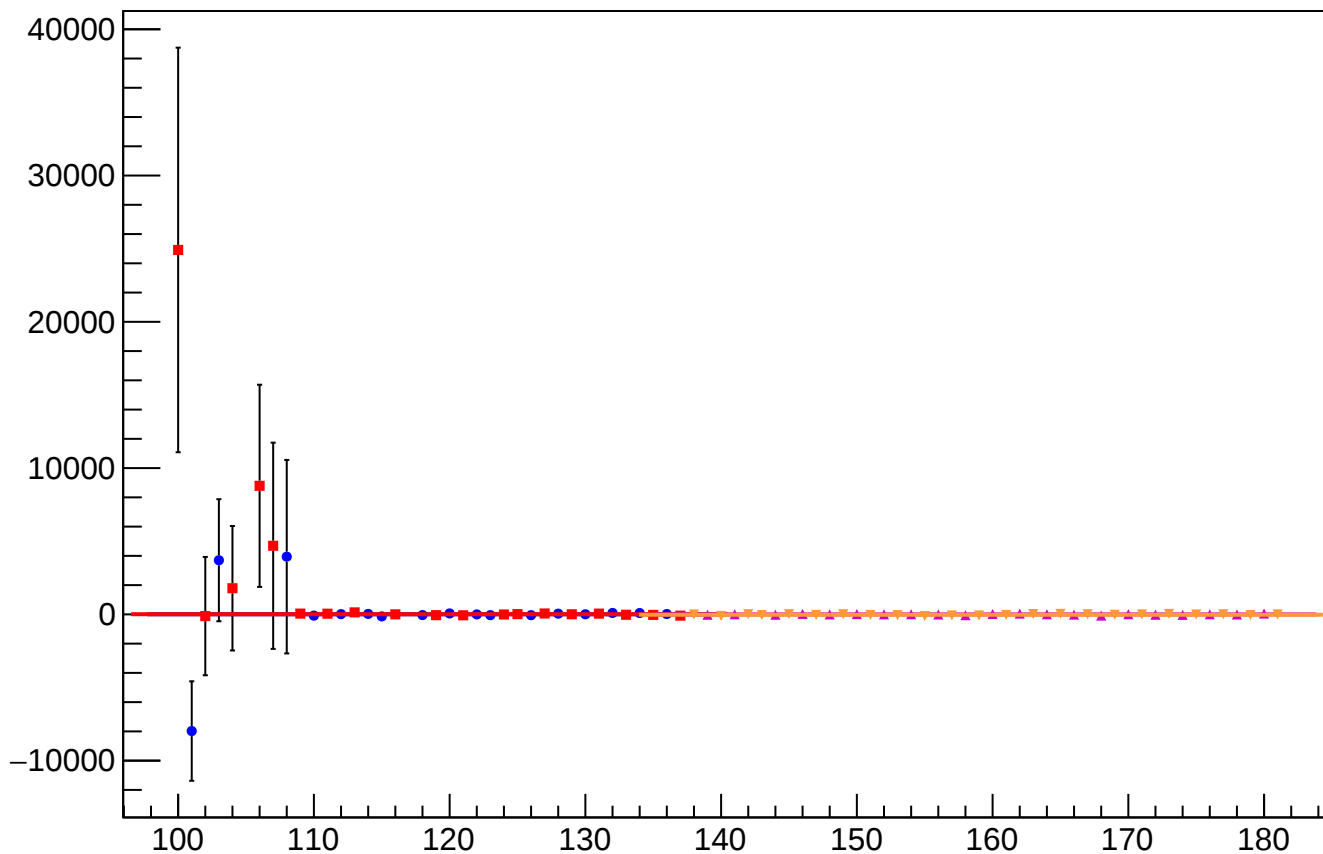
Right: 183.614+/-0.043 χ^2/NDF : 7743679.8/35

In: 189.009+/-0.030 χ^2/NDF :4890389.0/37

Out: 196.957+/-0.031 χ^2/NDF :6044316.0/41

All: 192.913+/-0.021 χ^2/NDF : 10968987.9/79

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.177 ± 14.983 $\chi^2/\text{NDF}: 20.1/16$

Left Out: -24.559 ± 8.297 $\chi^2/\text{NDF}: 22.8/22$

Right Out: 11.632 ± 14.990 $\chi^2/\text{NDF}: 21.2/18$

Left In: -1.444 ± 8.593 $\chi^2/\text{NDF}: 15.8/20$

Left: -13.407 ± 5.969 $\chi^2/\text{NDF}: 42.4/43$

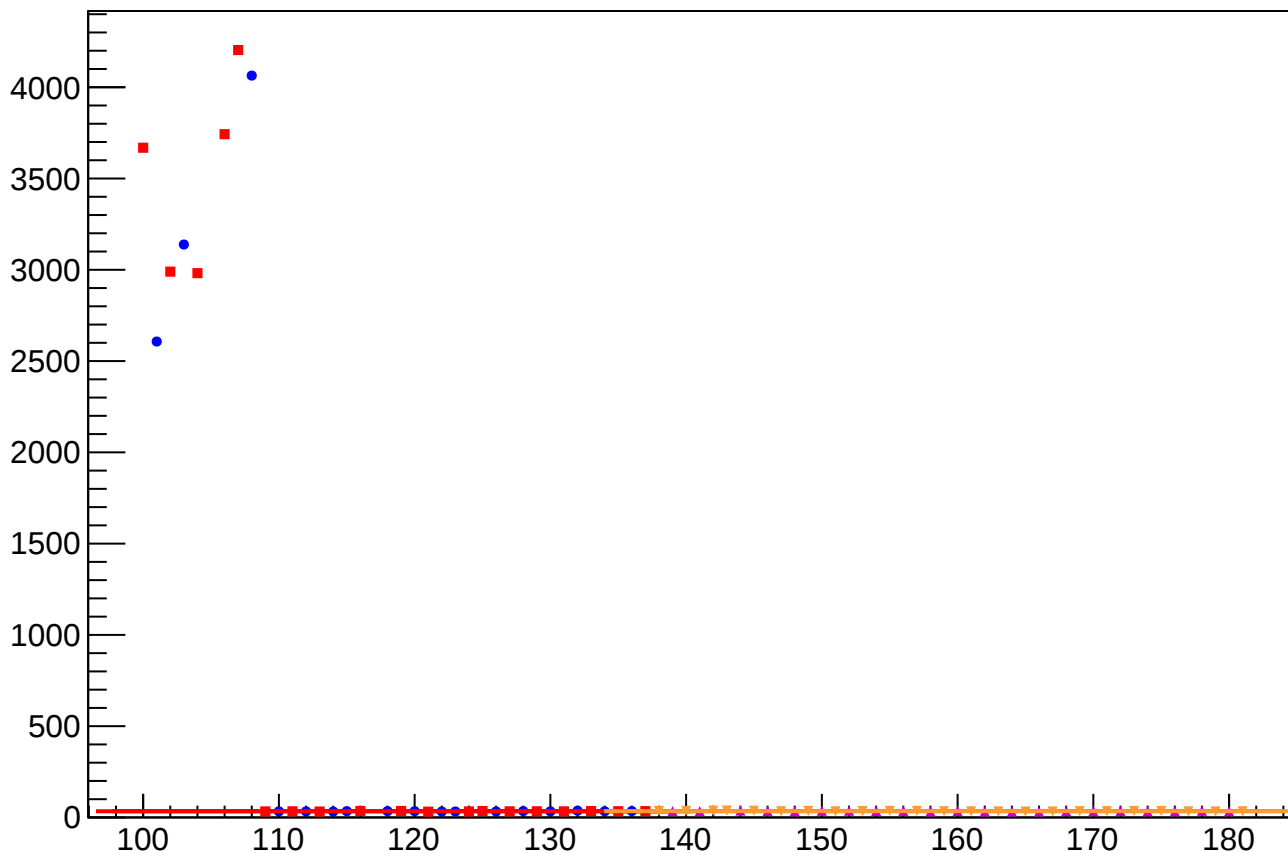
Right: 8.903 ± 10.597 $\chi^2/\text{NDF}: 41.4/35$

In: 0.443 ± 7.454 $\chi^2/\text{NDF}: 36.1/37$

Out: -16.072 ± 7.259 $\chi^2/\text{NDF}: 48.4/41$

All: -8.033 ± 5.201 $\chi^2/\text{NDF}: 87.1/79$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.169 $\pm$ 0.011 χ^2 /NDF: 3006128.0/16

Left Out: 34.578 $\pm$ 0.006 χ^2 /NDF: 54134.9/22

Right Out: 33.933 $\pm$ 0.011 χ^2 /NDF: 3451992.5/18

Left In: 34.648 $\pm$ 0.006 χ^2 /NDF: 59227.1/20

Left: 34.611 $\pm$ 0.004 χ^2 /NDF: 113430.3/43

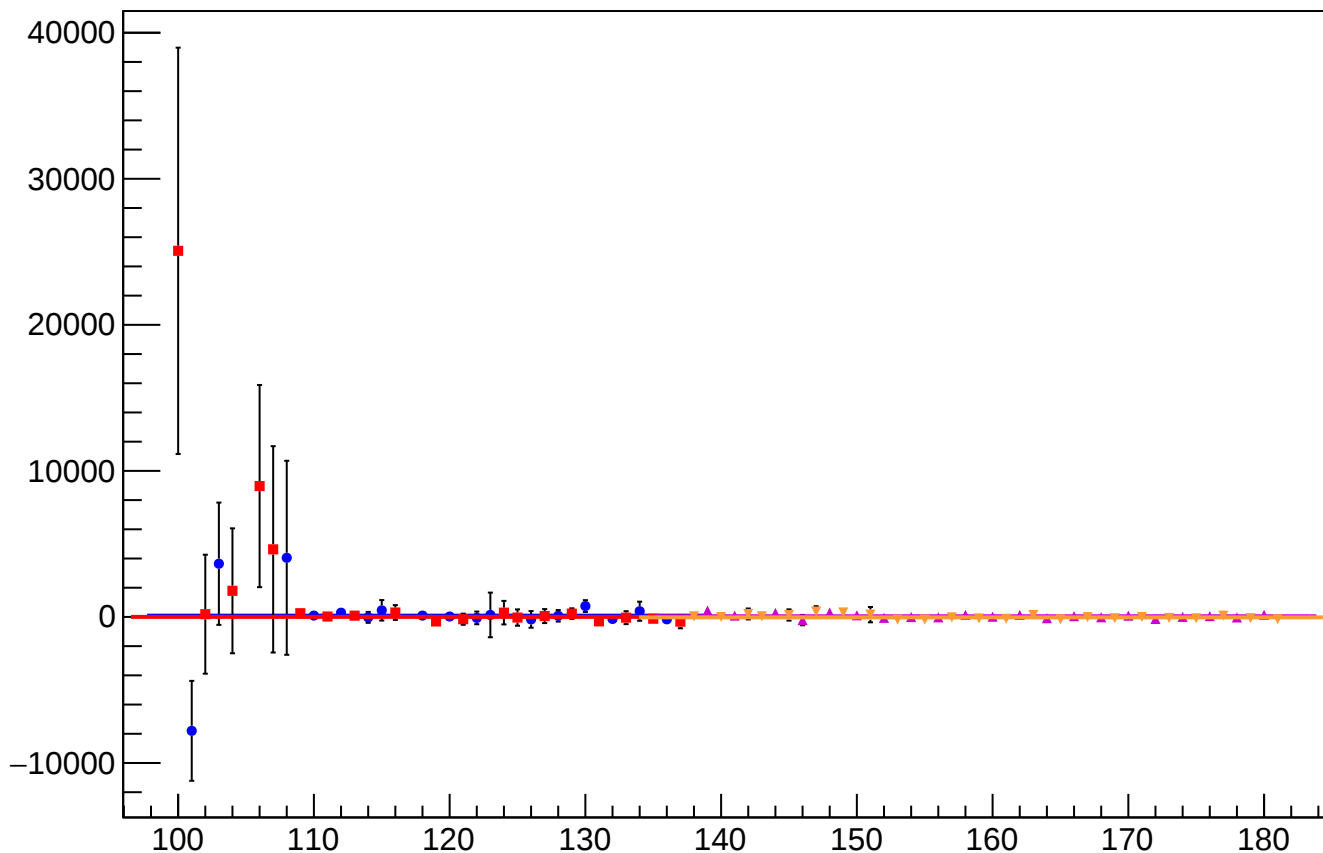
Right: 34.051 $\pm$ 0.007 χ^2 /NDF: 6458368.2/35

In: 34.529 $\pm$ 0.005 χ^2 /NDF: 3066893.2/37

Out: 34.426 $\pm$ 0.005 χ^2 /NDF: 3508962.3/41

All: 34.476 $\pm$ 0.004 χ^2 /NDF: 6576049.5/79

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.712+/-88.241 χ^2/NDF : 12.5/16

Left Out: -28.752+/-51.004 χ^2/NDF : 6.5/22

Right Out: 3.827+/-81.231 χ^2/NDF : 11.1/18

Left In: 46.018+/-48.441 χ^2/NDF : 6.5/20

Left: 10.558+/-35.124 χ^2/NDF : 14.1/43

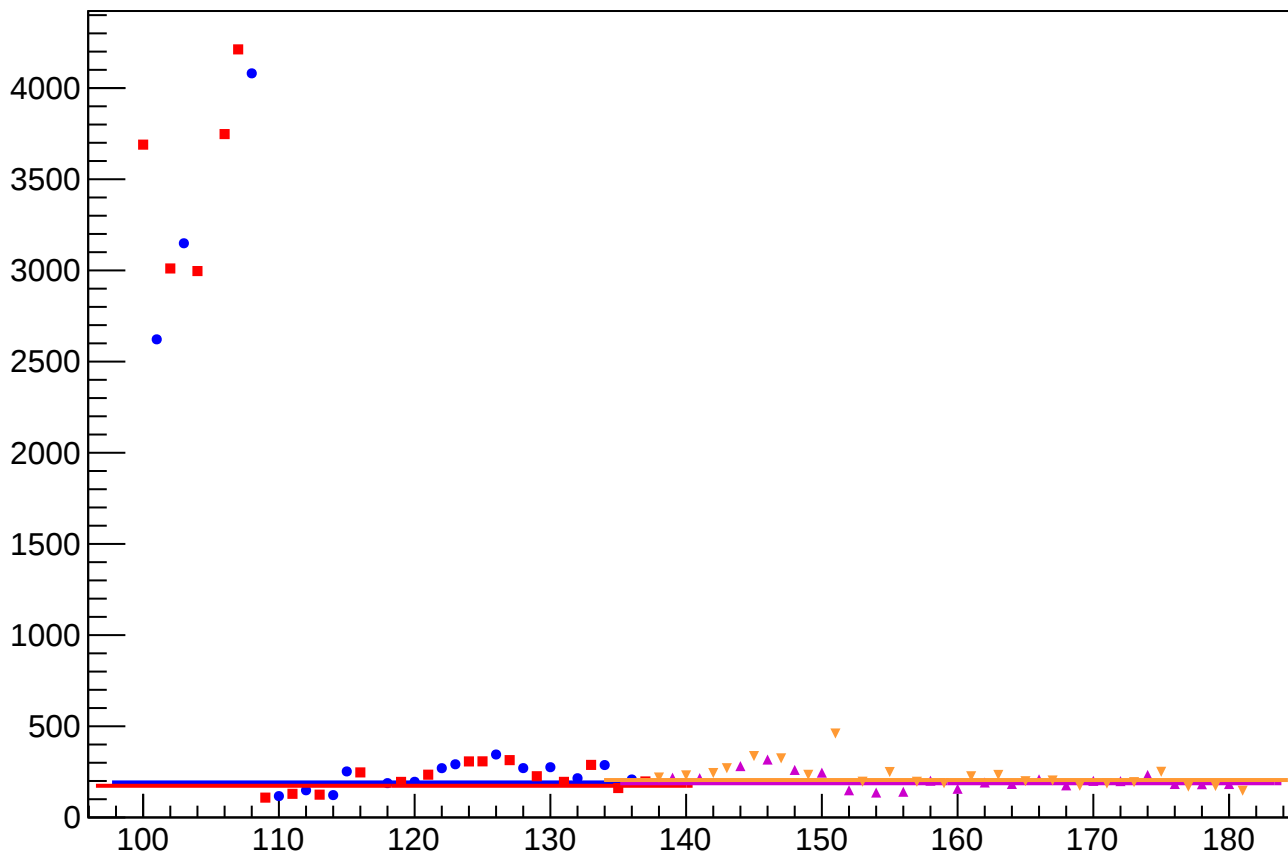
Right: 41.847+/-59.764 χ^2/NDF : 24.1/35

In: 55.441+/-42.463 χ^2/NDF : 19.1/37

Out: -19.540+/-43.195 χ^2/NDF : 17.8/41

All: 18.591+/-30.281 χ^2/NDF : 38.4/79

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.118 $\pm$ 0.062 χ^2 /NDF: 3575311.3/16

Left Out: 205.216 $\pm$ 0.036 χ^2 /NDF:1675690.5/22

Right Out: 173.728 $\pm$ 0.057 χ^2 /NDF: 4205626.6/18

Left In: 187.517 $\pm$ 0.034 χ^2 /NDF:1333514.8/20

Left: 195.911 $\pm$ 0.025 χ^2 /NDF: 3135828.2/43

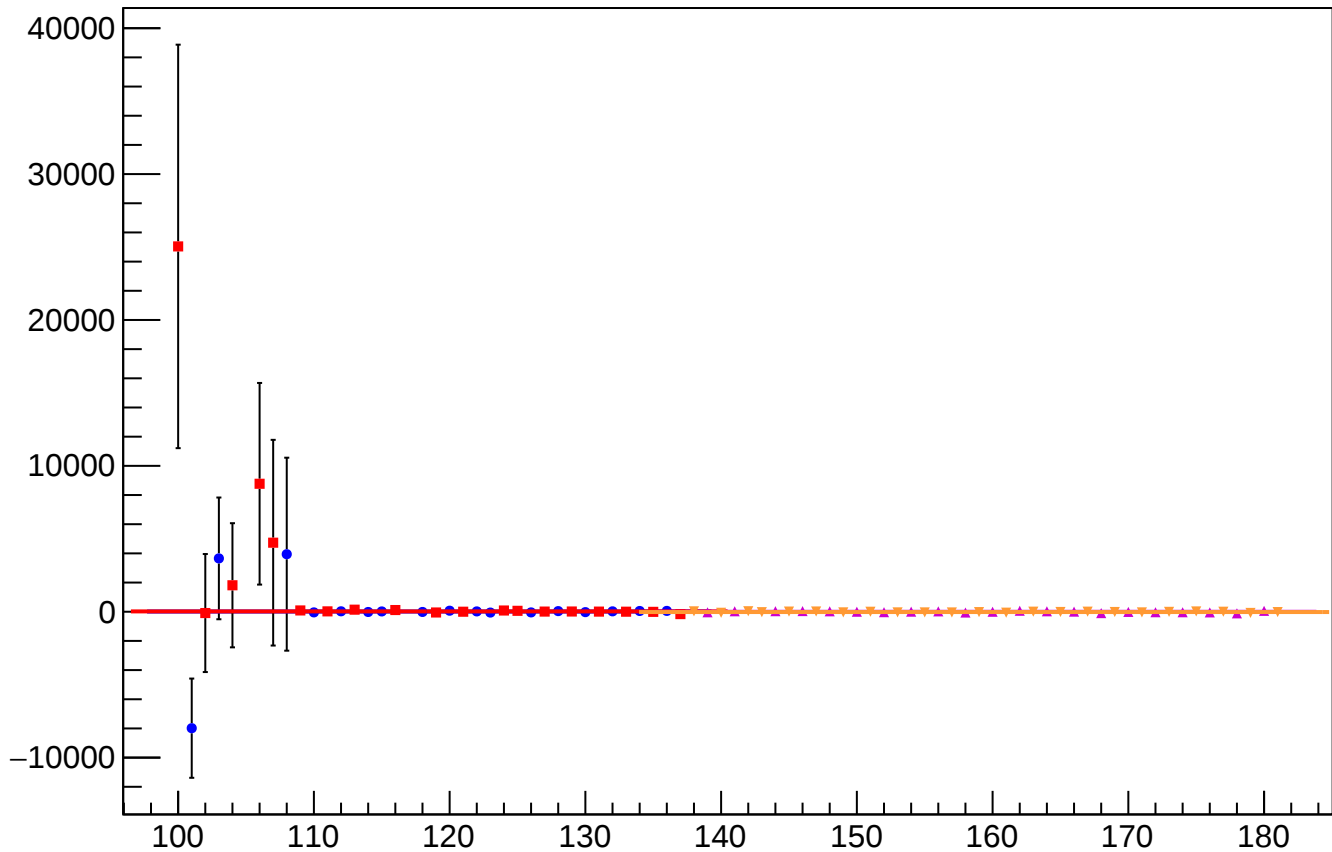
Right: 182.163 $\pm$ 0.042 χ^2 /NDF: 7827959.7/35

In: 188.583 $\pm$ 0.030 χ^2 /NDF:4913004.4/37

Out: 196.312 $\pm$ 0.031 χ^2 /NDF:6096869.4/41

All: 192.381 $\pm$ 0.021 χ^2 /NDF: 11042444.9/79

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.225+/-13.662 χ^2/NDF : 14.8/16

Left Out: -21.201+/-7.555 χ^2/NDF : 16.9/22

Right Out: 22.859+/-13.697 χ^2/NDF : 27.3/18

Left In: -4.330+/-7.807 χ^2/NDF : 37.1/20

Left: -13.042+/-5.429 χ^2/NDF : 56.4/43

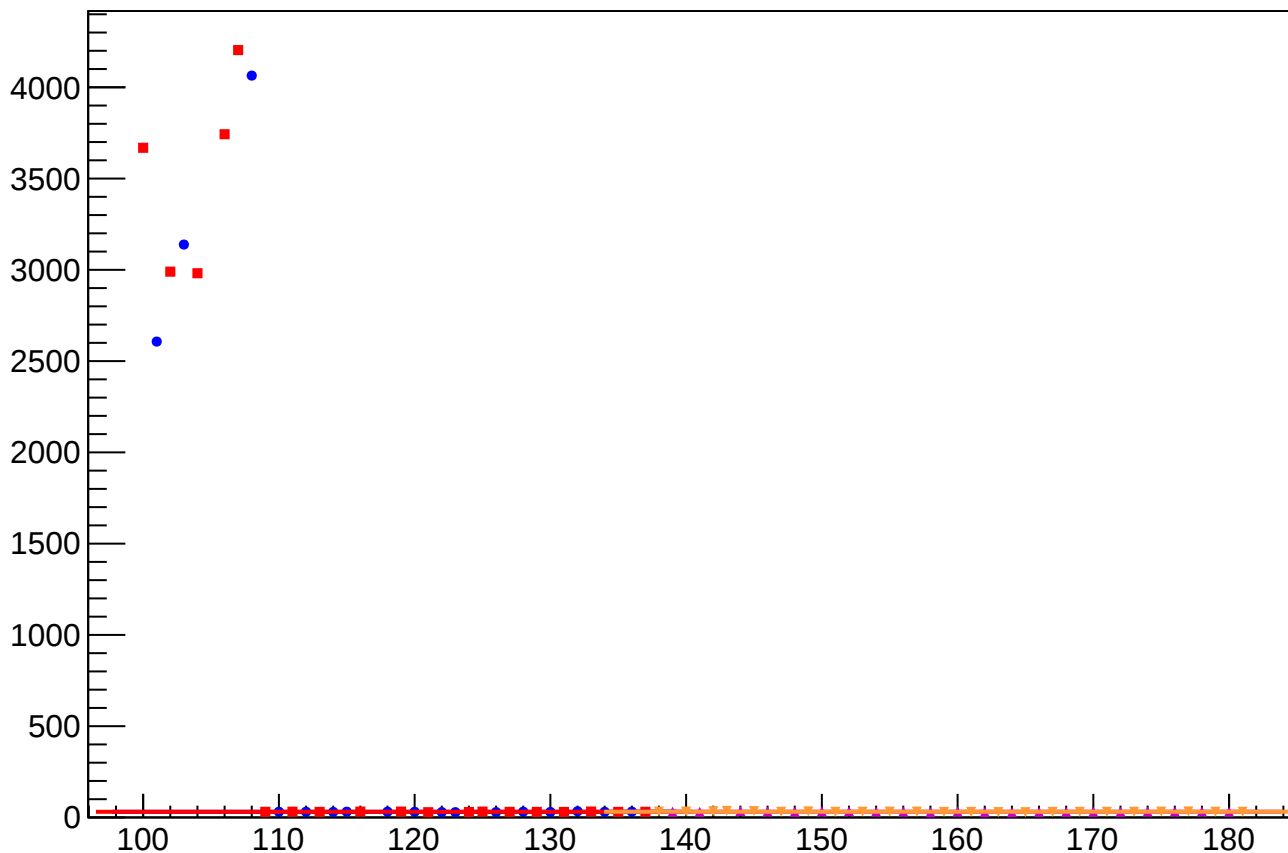
Right: 18.531+/-9.673 χ^2/NDF : 42.3/35

In: 0.237+/-6.778 χ^2/NDF : 53.3/37

Out: -10.923+/-6.615 χ^2/NDF : 52.2/41

All: -5.478+/-4.734 χ^2/NDF : 106.9/79

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.158+/-0.010 χ^2/NDF : 3014166.6/16

Left Out: 31.463+/-0.005 χ^2/NDF : 76920.8/22

Right Out: 30.985+/-0.010 χ^2/NDF : 3458900.0/18

Left In: 31.443+/-0.006 χ^2/NDF : 87147.6/20

Left: 31.453+/-0.004 χ^2/NDF : 164075.4/43

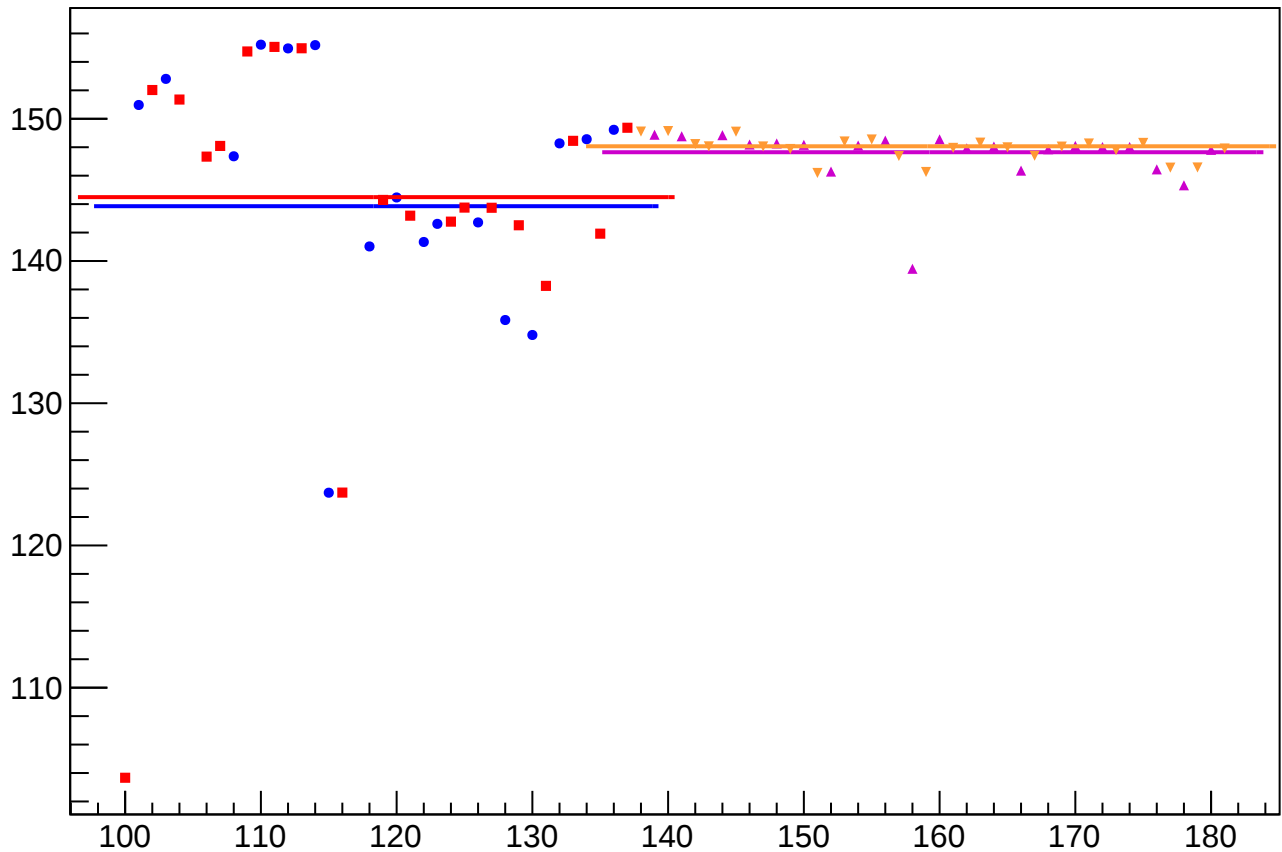
Right: 31.071+/-0.007 χ^2/NDF : 6473226.1/35

In: 31.373+/-0.005 χ^2/NDF : 3101972.0/37

Out: 31.352+/-0.005 χ^2/NDF : 3537691.0/41

All: 31.362+/-0.003 χ^2/NDF : 6639672.9/79

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.854 $\pm$ 0.000 χ^2 /NDF: 3448306444.5/16

Left Out: 148.067 $\pm$ 0.000 χ^2 /NDF: 65573146.2/22

Right Out: 144.491 $\pm$ 0.000 χ^2 /NDF: 4184461794.3/18

Left In: 147.648 $\pm$ 0.000 χ^2 /NDF: 343558335.9/20

Left: 147.866 $\pm$ 0.000 χ^2 /NDF: 416654765.0/43

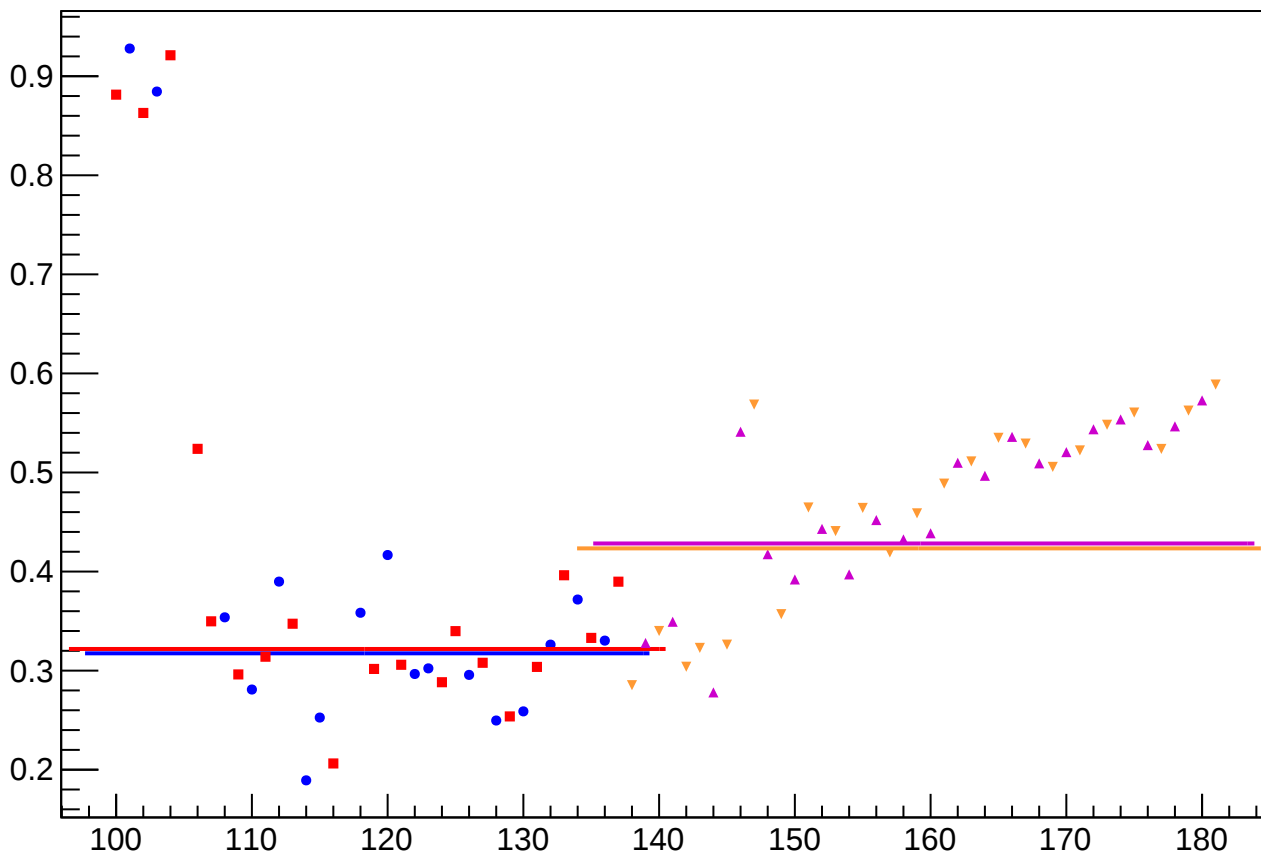
Right: 144.176 $\pm$ 0.000 χ^2 /NDF: 7644095101.6/35

In: 146.128 $\pm$ 0.000 χ^2 /NDF: 4268616728.6/37

Out: 146.682 $\pm$ 0.000 χ^2 /NDF: 4692183343.8/41

All: 146.413 $\pm$ 0.000 χ^2 /NDF: 8982587949.6

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.000 χ^2 /NDF: 1273243.2/16

Left Out: 0.423 $\pm$ 0.000 χ^2 /NDF:1721032.7/22

Right Out: 0.322 $\pm$ 0.000 χ^2 /NDF: 1215219.2/18

Left In: 0.428 $\pm$ 0.000 χ^2 /NDF:1356758.1/20

Left: 0.426 $\pm$ 0.000 χ^2 /NDF: 3079898.7/43

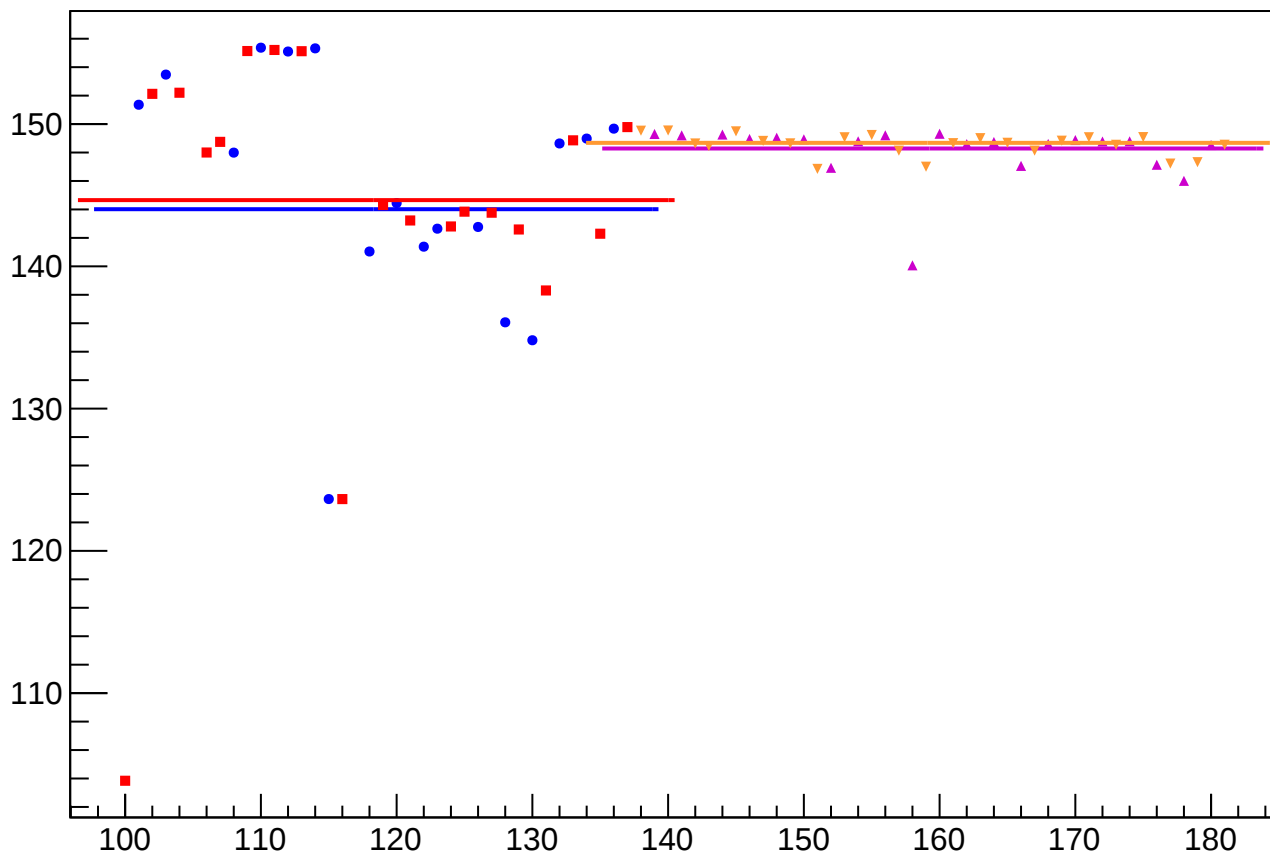
Right: 0.320 $\pm$ 0.000 χ^2 /NDF: 2489538.1/35

In: 0.384 $\pm$ 0.000 χ^2 /NDF:3444366.0/37

Out: 0.384 $\pm$ 0.000 χ^2 /NDF:3649288.7/41

All: 0.384 $\pm$ 0.000 χ^2 /NDF: 7093658.5/79

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.016 $\pm$ 0.000 χ^2 /NDF: 3492221319.5/16

Left Out: 148.680 $\pm$ 0.000 χ^2 /NDF: 52514317.5/22

Right Out: 144.655 $\pm$ 0.000 χ^2 /NDF: 4208783732.4/18

Left In: 148.283 $\pm$ 0.000 χ^2 /NDF: 332037254.5/20

Left: 148.489 $\pm$ 0.000 χ^2 /NDF: 391183495.3/43

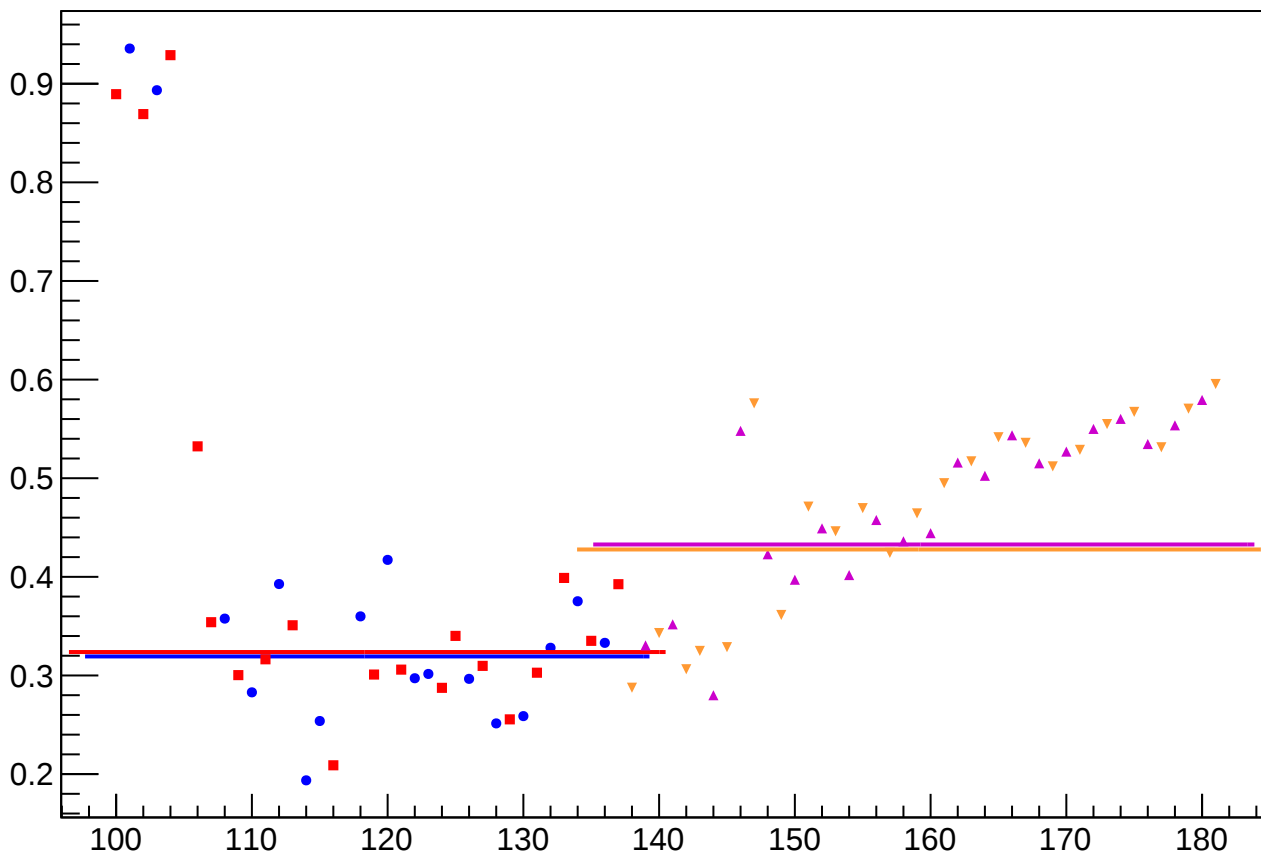
Right: 144.339 $\pm$ 0.000 χ^2 /NDF: 7712254878.2/35

In: 146.563 $\pm$ 0.000 χ^2 /NDF: 4417798908.9/37

Out: 147.113 $\pm$ 0.000 χ^2 /NDF: 4812848015.7/41

All: 146.846 $\pm$ 0.000 χ^2 /NDF: 9251692297.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1274809.7/16

Left Out: 0.428+/-0.000 χ^2/NDF :1751112.8/22

Right Out: 0.324+/-0.000 χ^2/NDF : 1217547.6/18

Left In: 0.433+/-0.000 χ^2/NDF :1380471.2/20

Left: 0.430+/-0.000 χ^2/NDF : 3133743.4/43

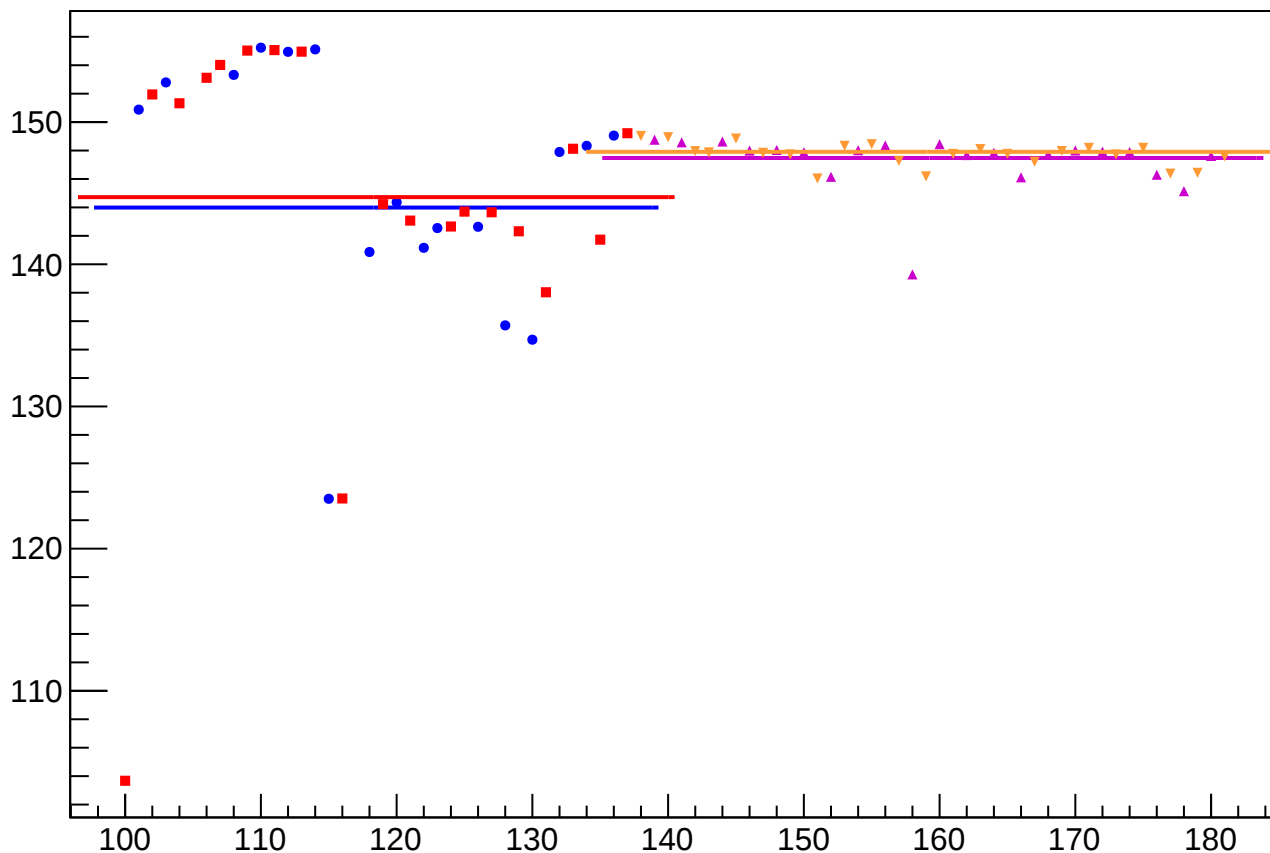
Right: 0.322+/-0.000 χ^2/NDF : 2493460.6/35

In: 0.387+/-0.000 χ^2/NDF :3495598.6/37

Out: 0.387+/-0.000 χ^2/NDF :3704678.6/41

All: 0.387+/-0.000 χ^2/NDF : 7200283.0/79

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.990 $\pm$ 0.000 χ^2 /NDF: 3661758828.8/16

Left Out: 147.910 $\pm$ 0.000 χ^2 /NDF: 64265160.3/22

Right Out: 144.724 $\pm$ 0.000 χ^2 /NDF: 4474261871.8/18

Left In: 147.476 $\pm$ 0.000 χ^2 /NDF: 342540473.3/20

Left: 147.701 $\pm$ 0.000 χ^2 /NDF: 414853199.2/43

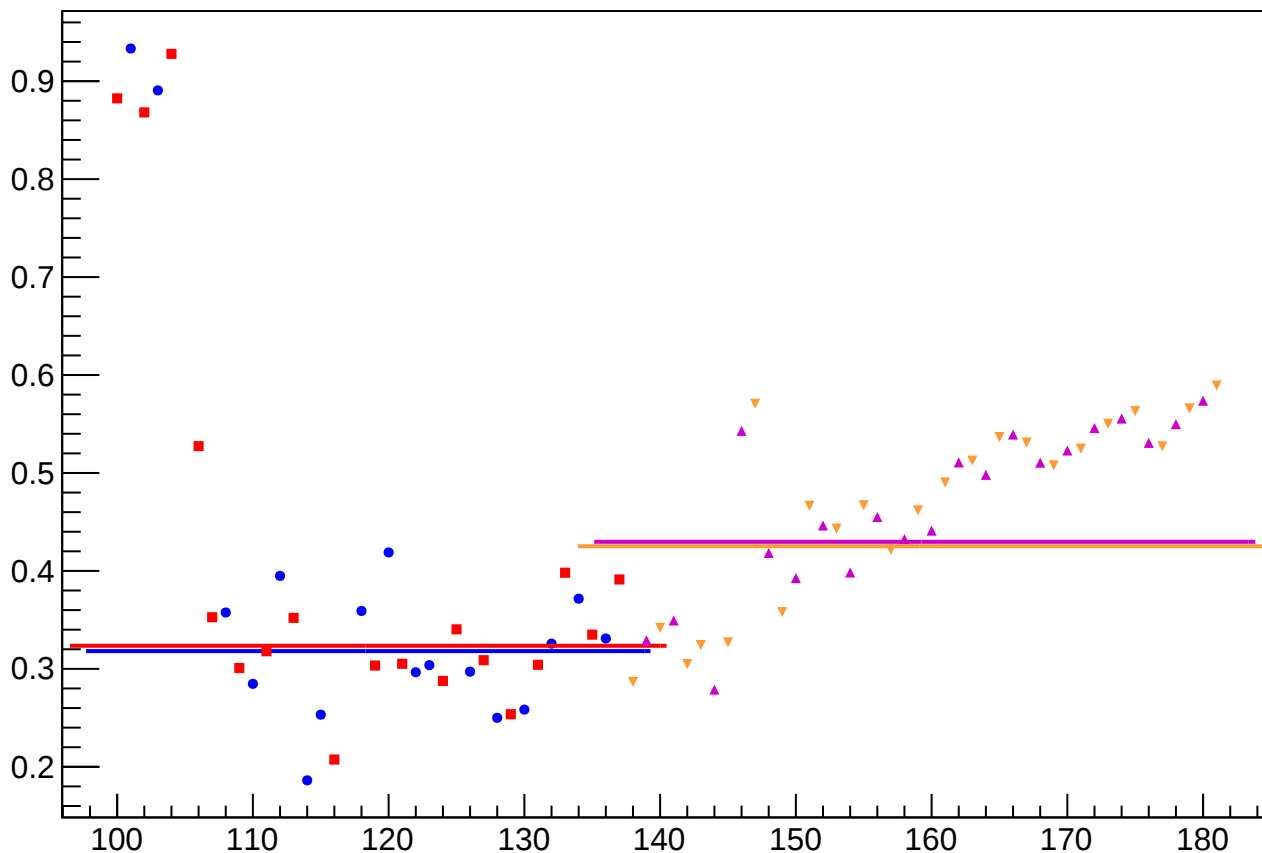
Right: 144.360 $\pm$ 0.000 χ^2 /NDF: 8150942060.9/35

In: 146.078 $\pm$ 0.000 χ^2 /NDF: 4404184276.0/37

Out: 146.678 $\pm$ 0.000 χ^2 /NDF: 4886118480.9/41

All: 146.386 $\pm$ 0.000 χ^2 /NDF: 9315613332.5

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.318+/-0.000 χ^2/NDF : 1287972.7/16

Left Out: 0.425+/-0.000 χ^2/NDF : 1722582.8/22

Right Out: 0.324+/-0.000 χ^2/NDF : 1220104.3/18

Left In: 0.430+/-0.000 χ^2/NDF : 1364563.0/20

Left: 0.427+/-0.000 χ^2/NDF : 3088917.4/43

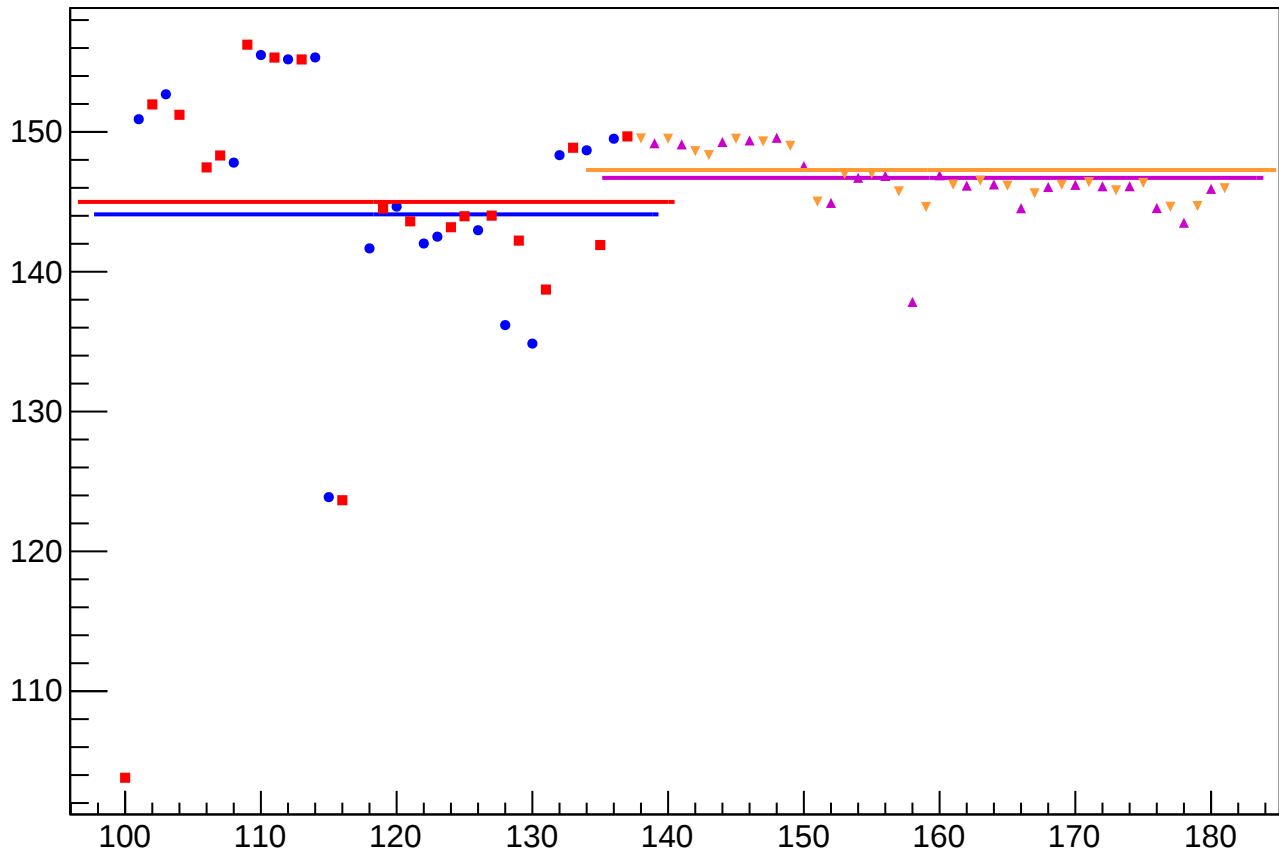
Right: 0.321+/-0.000 χ^2/NDF : 2509712.1/35

In: 0.385+/-0.000 χ^2/NDF : 3472004.5/37

Out: 0.386+/-0.000 χ^2/NDF : 3649353.9/41

All: 0.385+/-0.000 χ^2/NDF : 7121470.2/79

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.104 $\pm$ 0.000 χ^2 /NDF: 3160280337.5/16

Left Out: 147.277 $\pm$ 0.000 χ^2 /NDF: 255655160.6/22

Right Out: 144.995 $\pm$ 0.000 χ^2 /NDF: 3854490205.5/18

Left In: 146.712 $\pm$ 0.000 χ^2 /NDF: 553401036.0/20

Left: 147.005 $\pm$ 0.000 χ^2 /NDF: 821945645.9/43

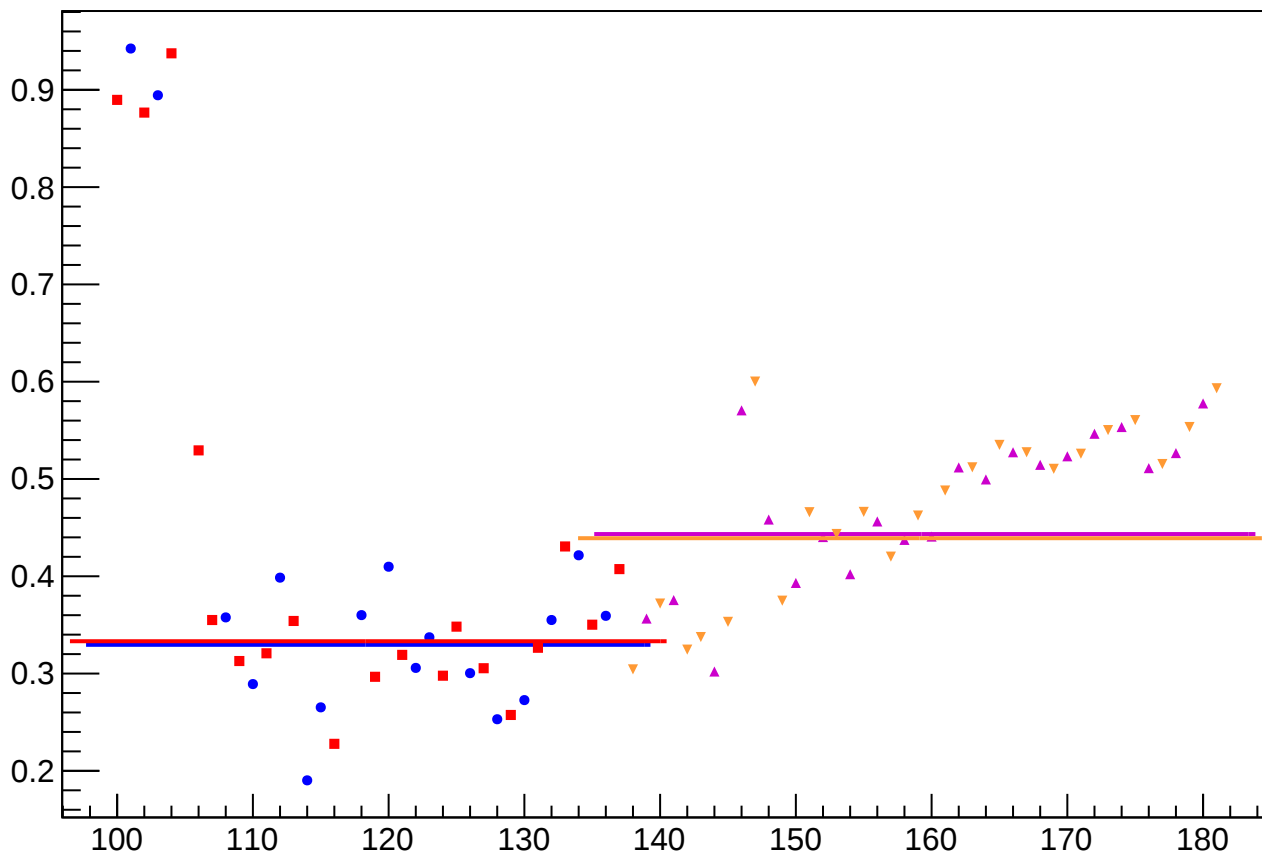
Right: 144.556 $\pm$ 0.000 χ^2 /NDF: 7035324027.3/35

In: 145.680 $\pm$ 0.000 χ^2 /NDF: 3923605056.5/37

Out: 146.397 $\pm$ 0.000 χ^2 /NDF: 4278498357.6/41

All: 146.049 $\pm$ 0.000 χ^2 /NDF: 8236249352.6

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.330+/-0.000 χ^2/NDF : 1270354.0/16

Left Out: 0.439+/-0.000 χ^2/NDF :1335744.7/22

Right Out: 0.333+/-0.000 χ^2/NDF : 1179001.1/18

Left In: 0.443+/-0.000 χ^2/NDF :1015322.3/20

Left: 0.441+/-0.000 χ^2/NDF : 2352535.0/43

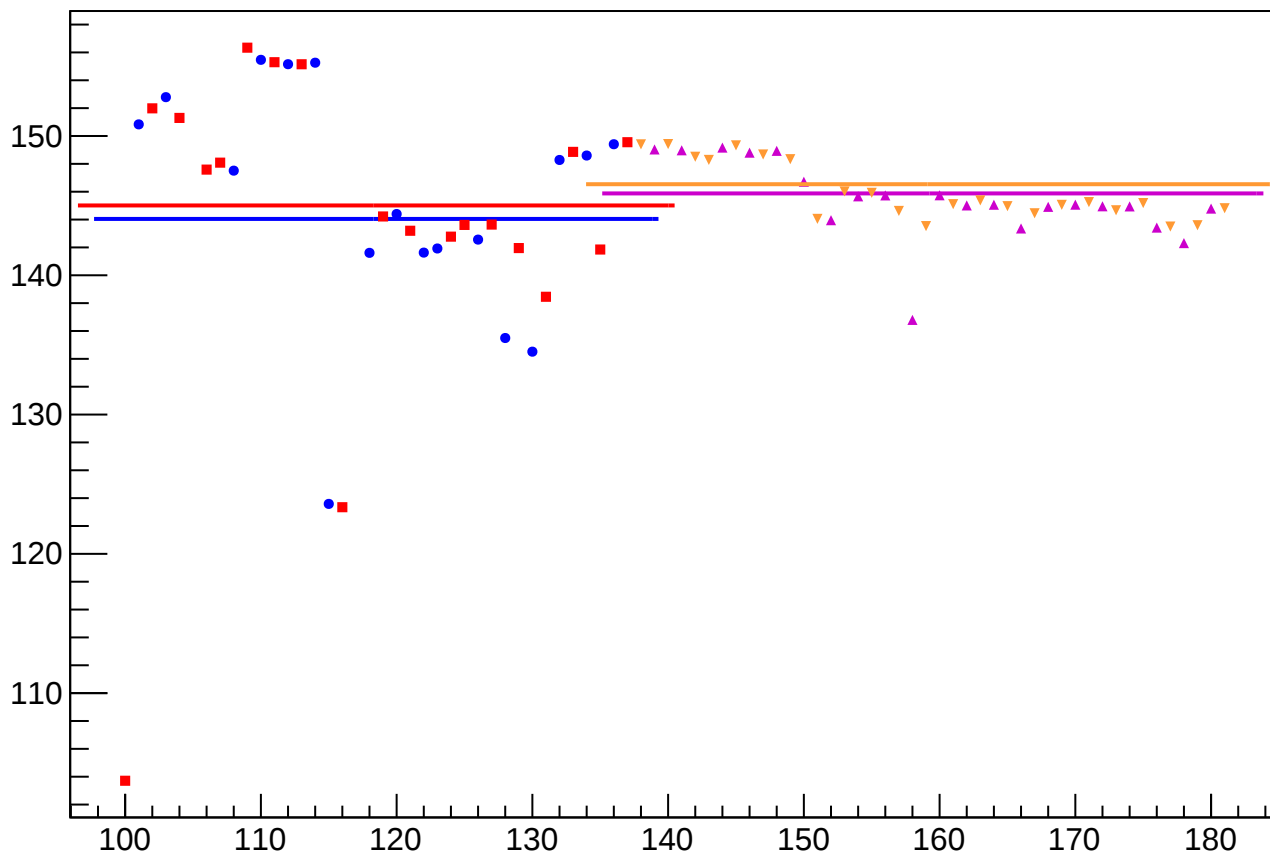
Right: 0.331+/-0.000 χ^2/NDF : 2450053.6/35

In: 0.398+/-0.000 χ^2/NDF :3085149.7/37

Out: 0.398+/-0.000 χ^2/NDF :3239296.1/41

All: 0.398+/-0.000 χ^2/NDF : 6324445.8/79

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.046 $\pm$ 0.000 χ^2 /NDF: 3279467915.9/16

Left Out: 146.538 $\pm$ 0.000 χ^2 /NDF: 389599869.1/22

Right Out: 145.013 $\pm$ 0.000 χ^2 /NDF: 3930693089.2/18

Left In: 145.877 $\pm$ 0.000 χ^2 /NDF: 686640869.2/20

Left: 146.220 $\pm$ 0.000 χ^2 /NDF: 1093808881.1/43

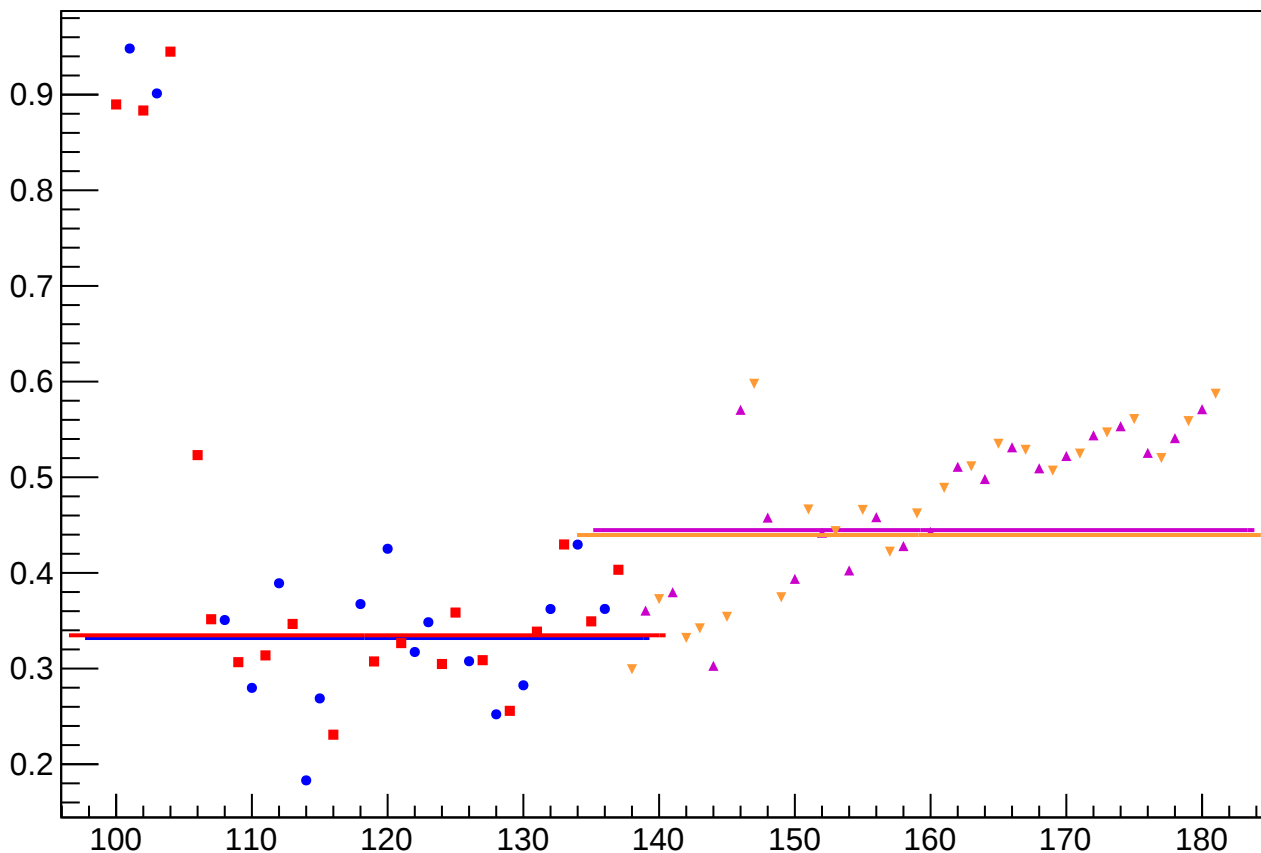
Right: 144.538 $\pm$ 0.000 χ^2 /NDF: 7234057528.4/35

In: 145.157 $\pm$ 0.000 χ^2 /NDF: 4068193785.1/37

Out: 145.953 $\pm$ 0.000 χ^2 /NDF: 4394846967.6/41

All: 145.567 $\pm$ 0.000 χ^2 /NDF: 8504714802.3

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.000 χ^2 /NDF: 1287882.2/16

Left Out: 0.440 $\pm$ 0.000 χ^2 /NDF:1325782.0/22

Right Out: 0.335 $\pm$ 0.000 χ^2 /NDF: 1168458.2/18

Left In: 0.445 $\pm$ 0.000 χ^2 /NDF:998810.3/20

Left: 0.442 $\pm$ 0.000 χ^2 /NDF: 2326726.7/43

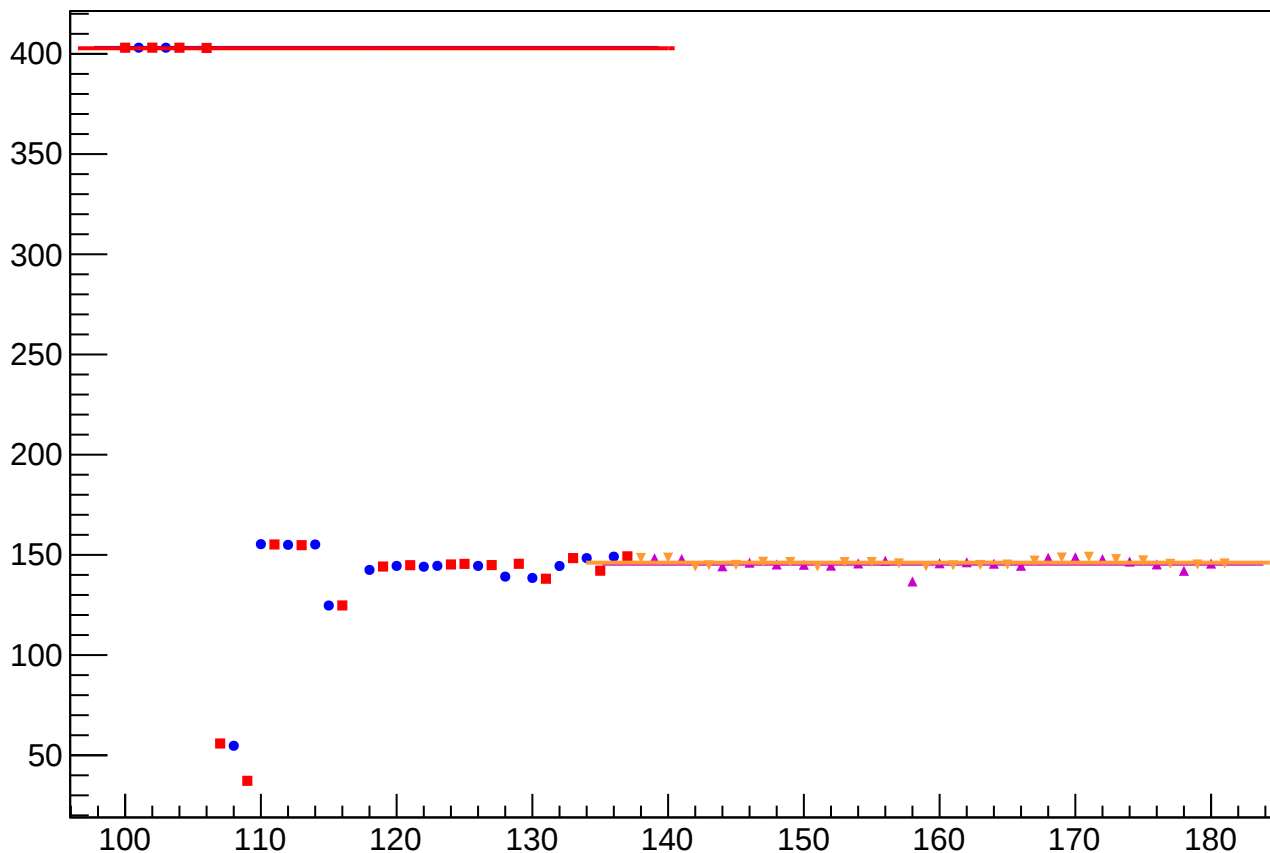
Right: 0.333 $\pm$ 0.000 χ^2 /NDF: 2456747.1/35

In: 0.400 $\pm$ 0.000 χ^2 /NDF:3061252.6/37

Out: 0.399 $\pm$ 0.000 χ^2 /NDF:3198702.4/41

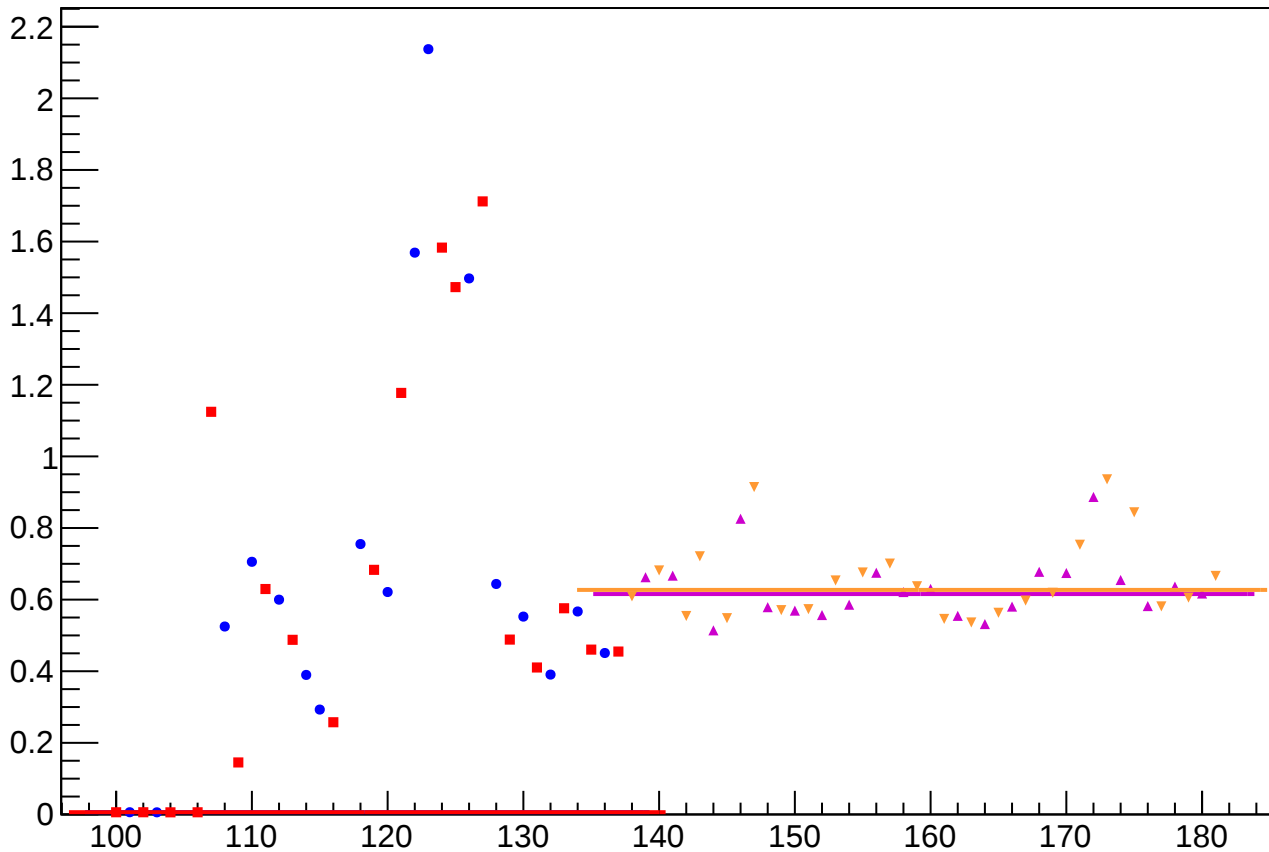
All: 0.400 $\pm$ 0.000 χ^2 /NDF: 6260088.7/79

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.957+/-0.000	χ^2/NDF : 1097981079296.6/16	Left: 145.868+/-0.000	χ^2/NDF : 273480228.4/43
Left Out: 146.123+/-0.000	χ^2/NDF : 77084309.8/22	Right: 402.873+/-0.000	χ^2/NDF : 4204637713016.5
Right Out: 402.798+/-0.000	χ^2/NDF : 3106239706226.1/18	In: 402.681+/-0.000	χ^2/NDF : 3312428443381.7/3
Left In: 145.606+/-0.000	χ^2/NDF : 191877500.5/20	Out: 402.550+/-0.000	χ^2/NDF : 5356782510829.4/4
		All: 402.611+/-0.000	χ^2/NDF : 866949597622

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9127939.0/16

Left Out: 0.627+/-0.000 χ^2/NDF :565109.2/22

Right Out: 0.006+/-0.000 χ^2/NDF : 9171738.5/18

Left In: 0.616+/-0.000 χ^2/NDF :352129.5/20

Left: 0.621+/-0.000 χ^2/NDF : 921801.9/43

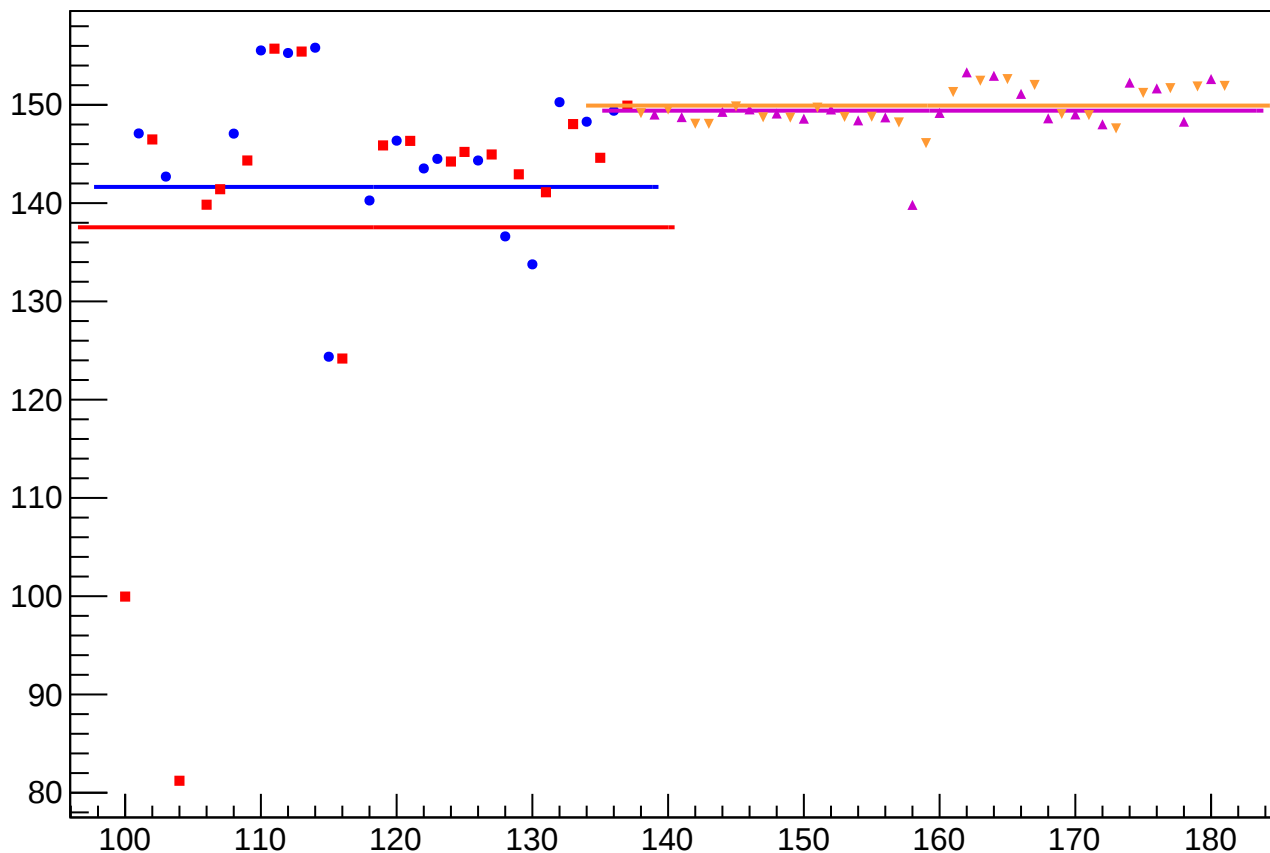
Right: 0.006+/-0.000 χ^2/NDF : 18299681.6/35

In: 0.007+/-0.000 χ^2/NDF :34295253.6/37

Out: 0.007+/-0.000 χ^2/NDF :36067731.9/41

All: 0.007+/-0.000 χ^2/NDF : 70363119.5/79

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.649 $\pm$ 0.000 χ^2 /NDF: 978960977.0/16

Left Out: 149.926 $\pm$ 0.000 χ^2 /NDF: 161074884.6/22

Right Out: 137.540 $\pm$ 0.000 χ^2 /NDF: 1319926808.9/18

Left In: 149.408 $\pm$ 0.000 χ^2 /NDF: 433147525.2/20

Left: 149.677 $\pm$ 0.000 χ^2 /NDF: 600669730.3/43

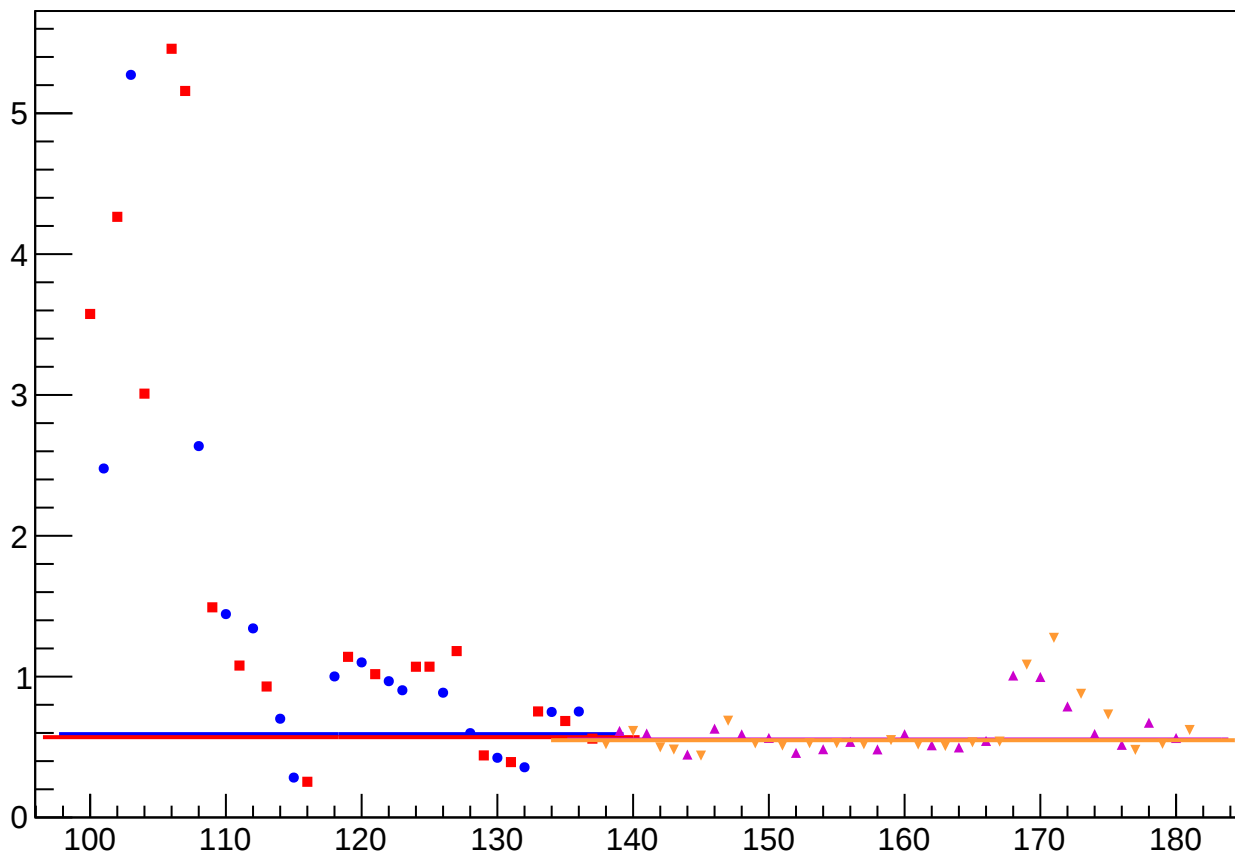
Right: 139.554 $\pm$ 0.000 χ^2 /NDF: 2385756401.6/35

In: 148.018 $\pm$ 0.000 χ^2 /NDF: 1911136284.8/37

Out: 147.770 $\pm$ 0.000 χ^2 /NDF: 2811298692.3/41

All: 147.890 $\pm$ 0.000 χ^2 /NDF: 4724229005.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3518726.1/16

Left Out: 0.548 $\pm$ 0.000 χ^2 /NDF:1367671.3/22

Right Out: 0.570 $\pm$ 0.000 χ^2 /NDF: 4645113.2/18

Left In: 0.554 $\pm$ 0.000 χ^2 /NDF:1015461.1/20

Left: 0.551 $\pm$ 0.000 χ^2 /NDF: 2384478.3/43

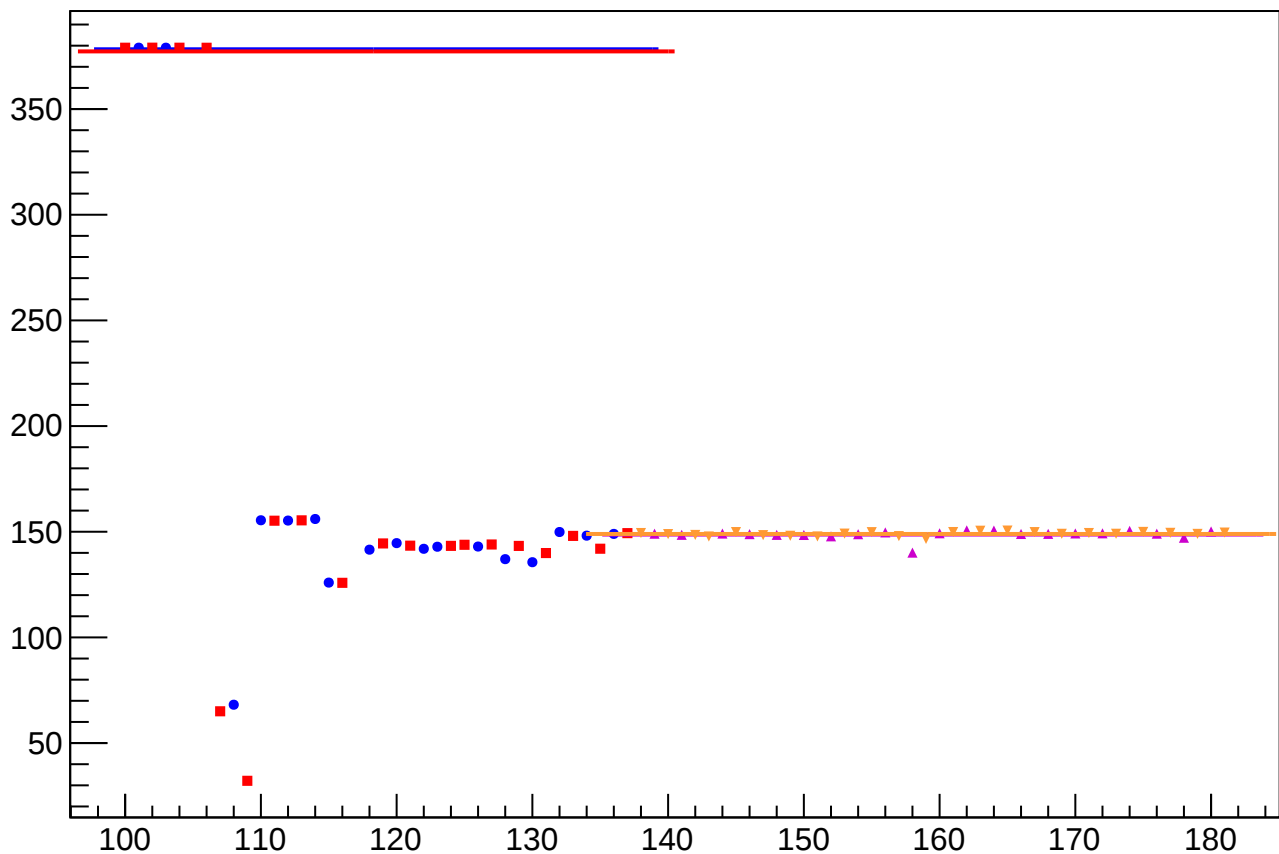
Right: 0.581 $\pm$ 0.000 χ^2 /NDF: 8168630.3/35

In: 0.561 $\pm$ 0.000 χ^2 /NDF:4558048.8/37

Out: 0.552 $\pm$ 0.000 χ^2 /NDF:6020922.7/41

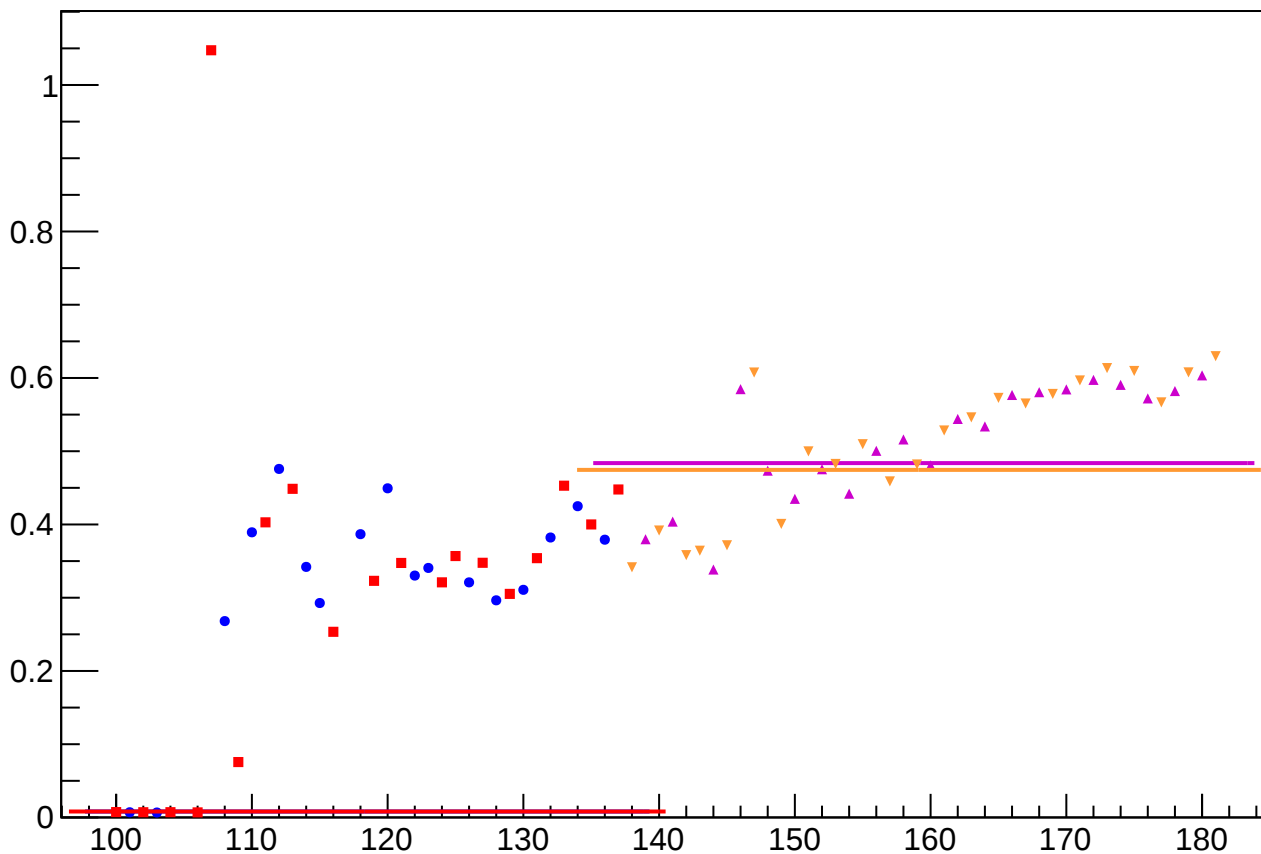
All: 0.556 $\pm$ 0.000 χ^2 /NDF: 10583005.6/79

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.288 +/- 0.000 χ^2/NDF : 2492505563660.4/16
 Left Out: 148.944 +/- 0.000 χ^2/NDF : 64696148.1/22
 Right Out: 377.290 +/- 0.000 χ^2/NDF : 8277094761031.6/18
 Left In: 148.665 +/- 0.000 χ^2/NDF : 252755502.9/20
 All: 376.652 +/- 0.000 χ^2/NDF : 179772307852.0/36

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 9842025.8/16

Left Out: 0.475+/-0.000 χ^2/NDF :1338744.0/22

Right Out: 0.008+/-0.000 χ^2/NDF : 9491450.8/18

Left In: 0.484+/-0.000 χ^2/NDF :956872.5/20

Left: 0.479+/-0.000 χ^2/NDF : 2301530.1/43

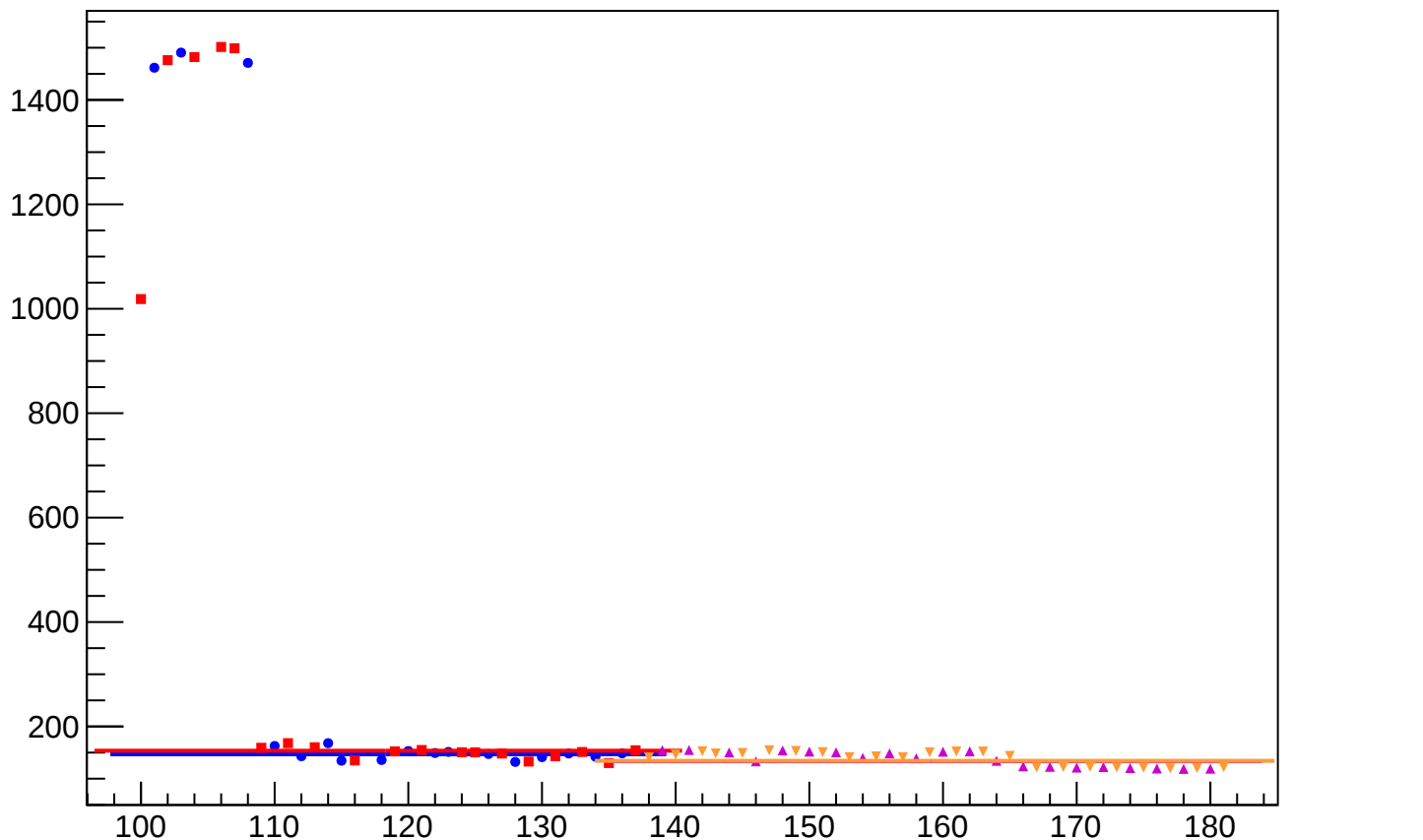
Right: 0.008+/-0.000 χ^2/NDF : 19333484.2/35

In: 0.010+/-0.000 χ^2/NDF :40459808.0/37

Out: 0.010+/-0.000 χ^2/NDF :42075369.9/41

All: 0.010+/-0.000 χ^2/NDF : 82535356.7/79

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.782 $\pm$ 0.000 χ^2 /NDF: 24345208780.4/16

Left Out: 134.195 $\pm$ 0.000 χ^2 /NDF: 4228279560.3/22

Right Out: 153.596 $\pm$ 0.000 χ^2 /NDF: 33791266543.9/18

Left In: 133.384 $\pm$ 0.000 χ^2 /NDF: 4282335591.5/20

Left: 133.804 $\pm$ 0.000 χ^2 /NDF: 8518000367.5/43

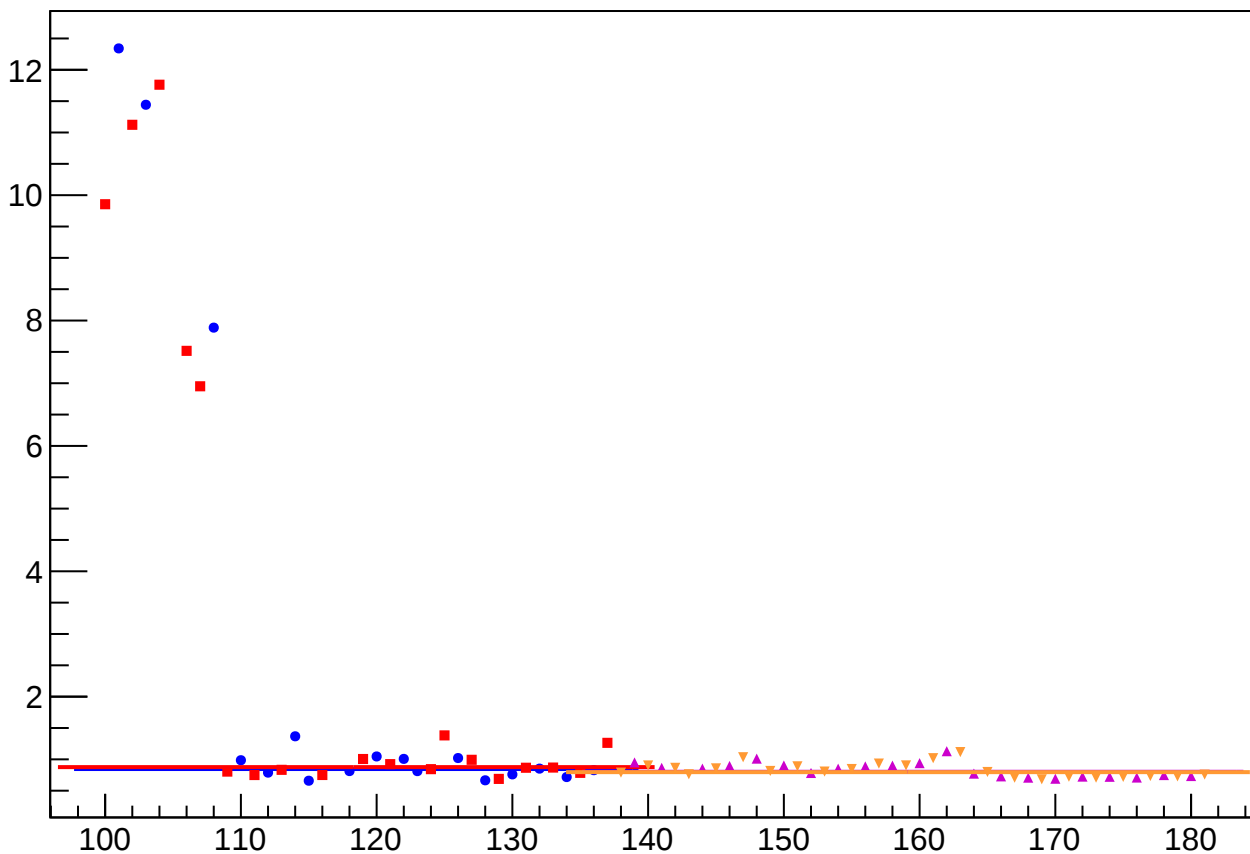
Right: 150.182 $\pm$ 0.000 χ^2 /NDF: 58259873830.0/35

In: 136.029 $\pm$ 0.000 χ^2 /NDF: 29394921693.7/37

Out: 137.802 $\pm$ 0.000 χ^2 /NDF: 39645289696.1/41

All: 136.941 $\pm$ 0.000 χ^2 /NDF: 69083770159.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.846 $\pm$ 0.000 χ^2 /NDF: 2658649.7/16

Left Out: 0.796 $\pm$ 0.000 χ^2 /NDF:482491.0/22

Right Out: 0.876 $\pm$ 0.000 χ^2 /NDF: 2826804.8/18

Left In: 0.802 $\pm$ 0.000 χ^2 /NDF:459545.3/20

Left: 0.799 $\pm$ 0.000 χ^2 /NDF: 942770.7/43

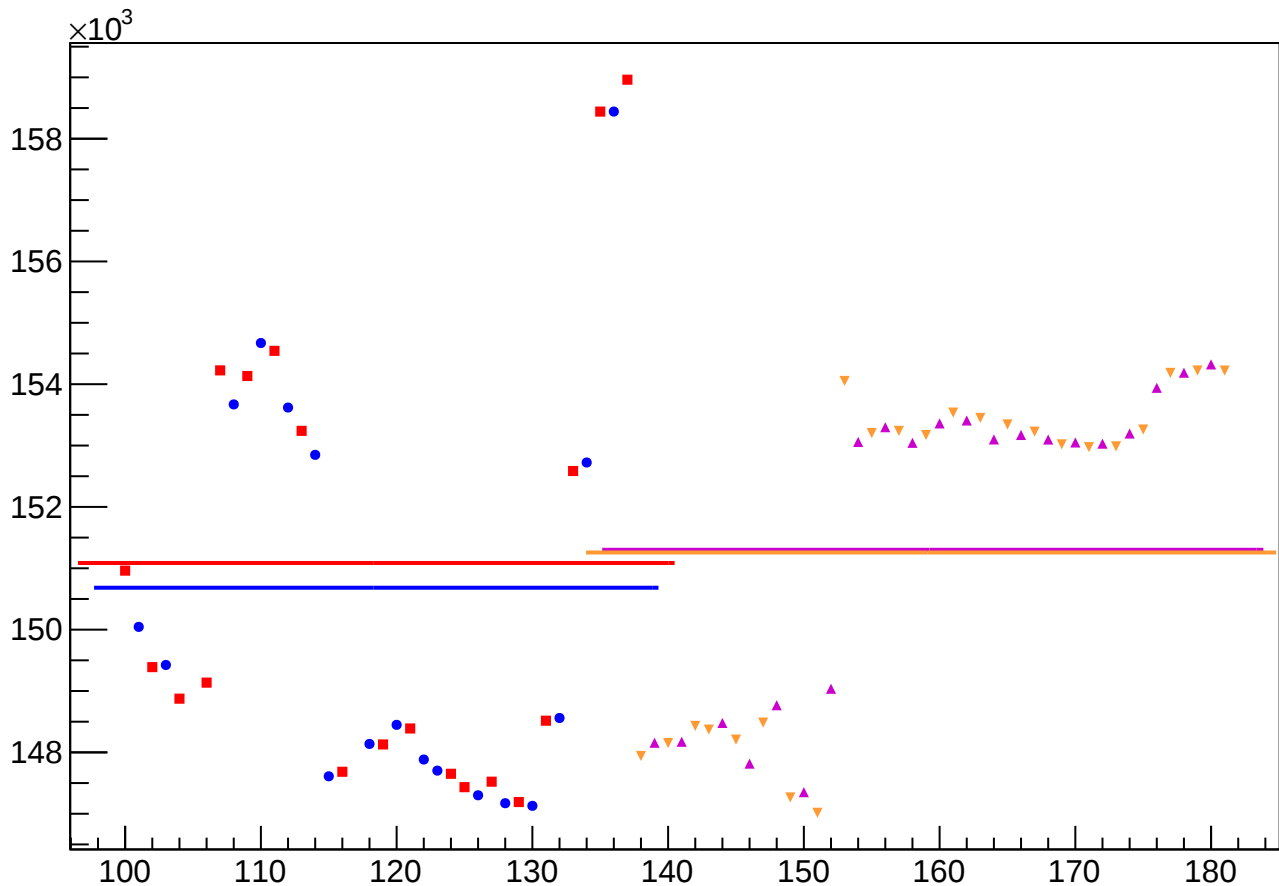
Right: 0.861 $\pm$ 0.000 χ^2 /NDF: 5490366.4/35

In: 0.810 $\pm$ 0.000 χ^2 /NDF:3134747.5/37

Out: 0.811 $\pm$ 0.000 χ^2 /NDF:3364754.8/41

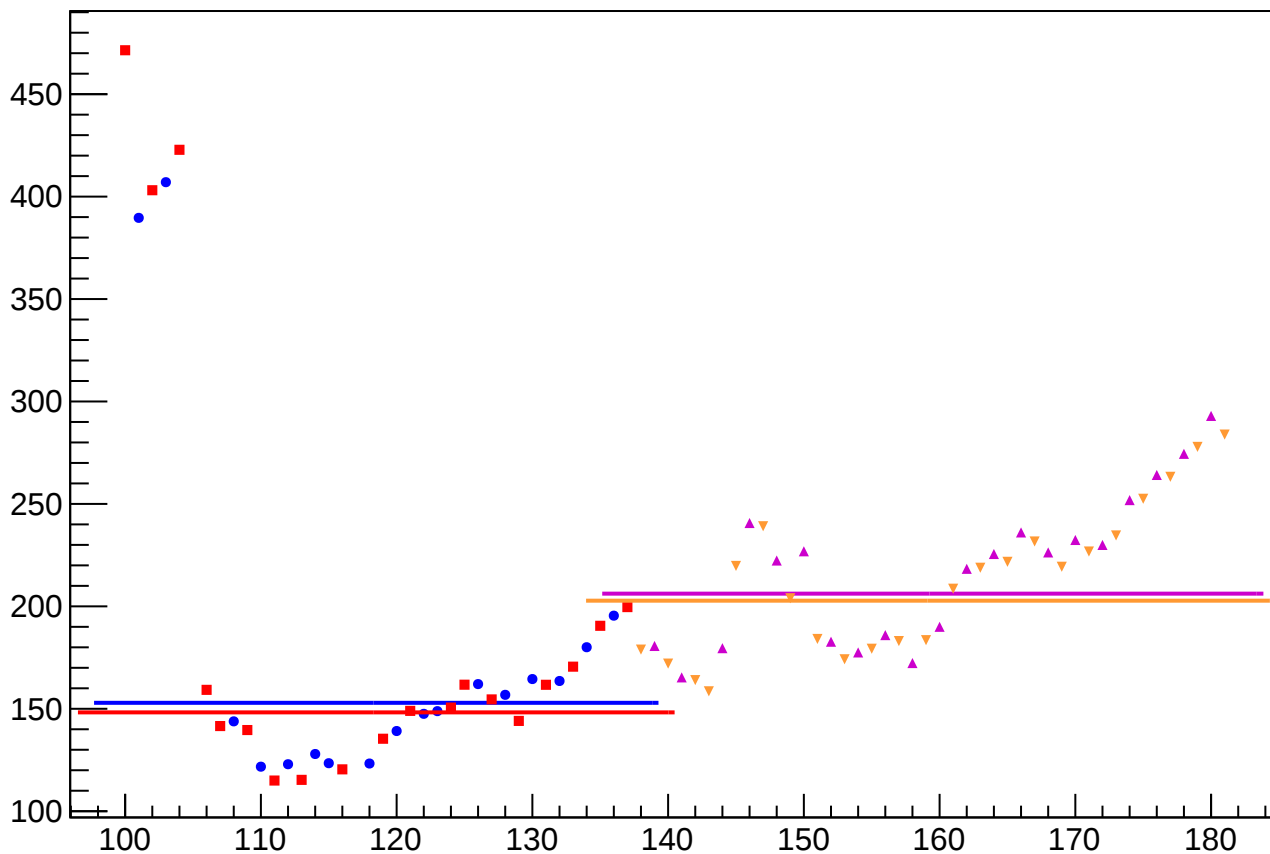
All: 0.811 $\pm$ 0.000 χ^2 /NDF: 6499508.7/79

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150683.304+/-0.063	χ^2/NDF : 3299311261.5/16	Left: 151278.258+/-0.036	χ^2/NDF : 5319128316.6/4
Left Out: 151257.277+/-0.049	χ^2/NDF : 3031826938.9/22	Right: 150895.868+/-0.043	χ^2/NDF : 6618337097.0/4
Right Out: 151086.261+/-0.060	χ^2/NDF : 3297509595.7/18	In: 151051.556+/-0.040	χ^2/NDF : 5643412255.2/37
Left In: 151301.416+/-0.052	χ^2/NDF : 2286922942.1/20	Out: 151187.677+/-0.038	χ^2/NDF : 6334200620.6/4
		All: 151123.131+/-0.028	χ^2/NDF : 119836673

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 152.916 $\pm$ 0.045 χ^2/NDF : 1154367.4/16

Left Out: 202.771 $\pm$ 0.035 χ^2/NDF : 878662.0/22

Right Out: 148.245 $\pm$ 0.042 χ^2/NDF : 1189017.0/18

Left In: 206.203 $\pm$ 0.037 χ^2/NDF : 833239.5/20

Left: 204.403 $\pm$ 0.025 χ^2/NDF : 1716477.5/43

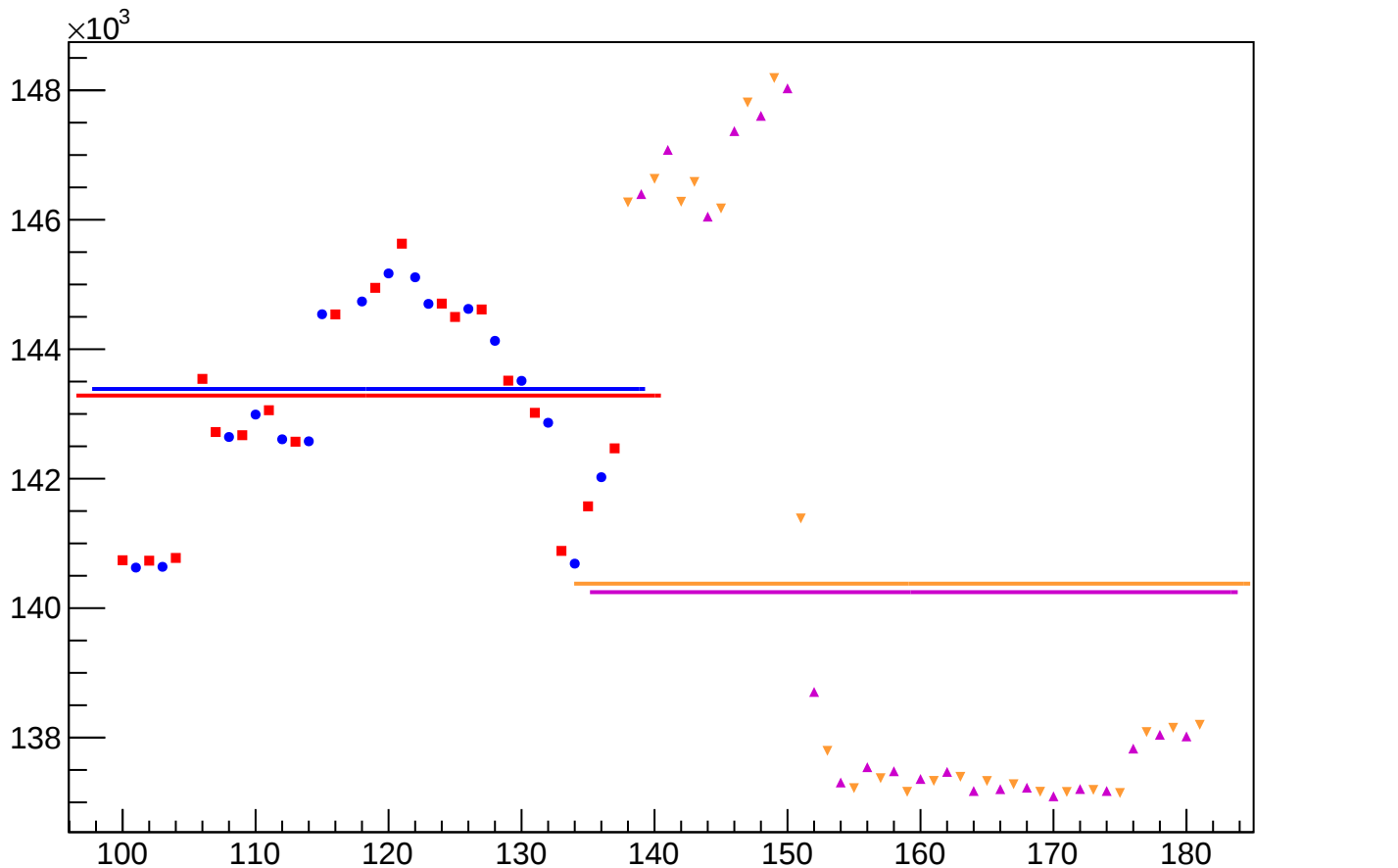
Right: 150.452 $\pm$ 0.031 χ^2/NDF : 2349165.6/35

In: 184.663 $\pm$ 0.028 χ^2/NDF : 2837517.8/37

Out: 180.580 $\pm$ 0.027 χ^2/NDF : 3056600.2/41

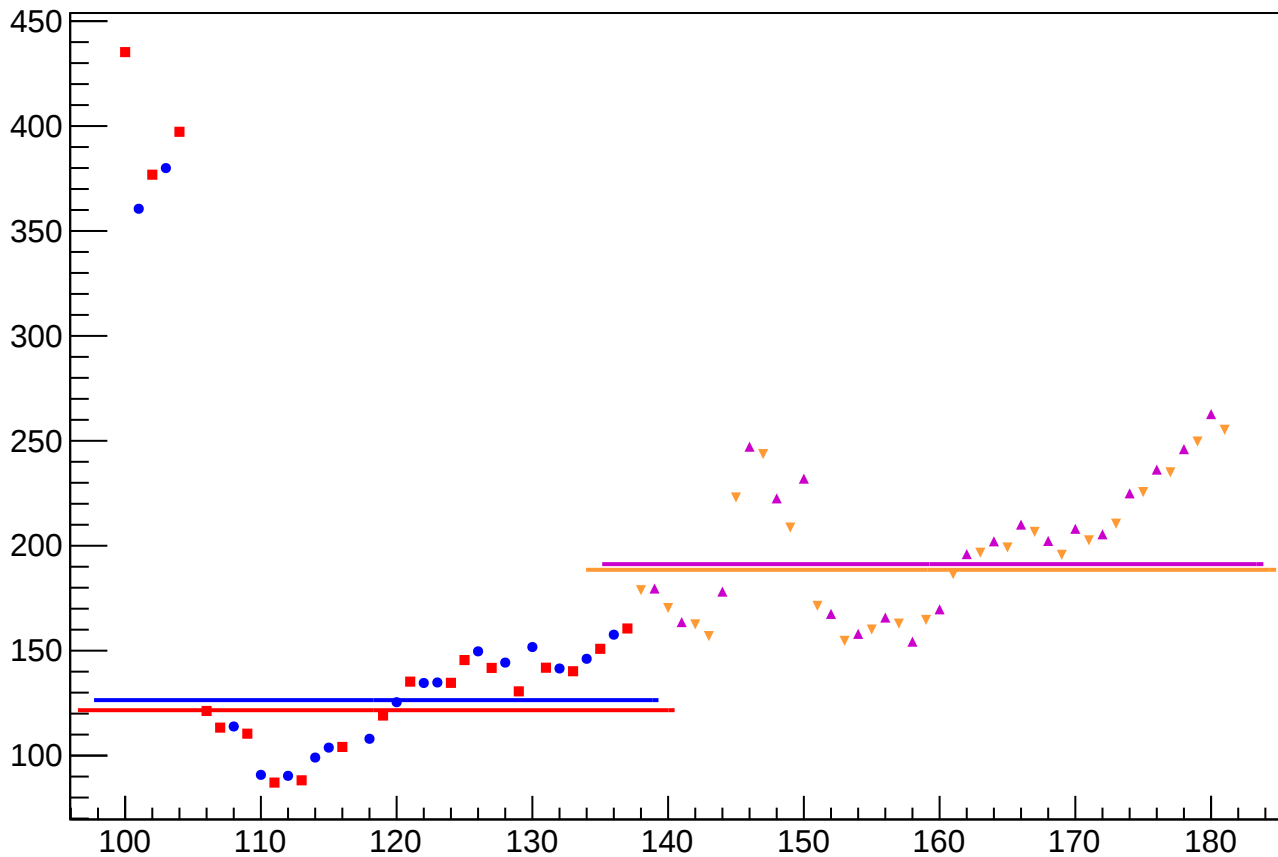
All: 182.516 $\pm$ 0.020 χ^2/NDF : 5905011.1/79

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143385.822 $\pm$ 0.053	χ^2 /NDF: 520518329.3/16	Left: 140315.448 $\pm$ 0.033	χ^2 /NDF: 16441398322.9
Left Out: 140377.983 $\pm$ 0.046	χ^2 /NDF: 8495522966.3/22	Right: 143331.368 $\pm$ 0.036	χ^2 /NDF: 1130981734.7
Right Out: 143284.246 $\pm$ 0.049	χ^2 /NDF: 608478885.8/18	In: 141674.300 $\pm$ 0.036	χ^2 /NDF: 10390198505.2/3
Left In: 140246.636 $\pm$ 0.048	χ^2 /NDF: 7941987811.1/20	Out: 141735.065 $\pm$ 0.034	χ^2 /NDF: 10970698584.4
		All: 141706.476 $\pm$ 0.024	χ^2 /NDF: 213624395

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.427+/-0.037 χ^2/NDF : 1442156.7/16

Left Out: 188.535+/-0.033 χ^2/NDF : 793390.6/22

Right Out: 121.629+/-0.035 χ^2/NDF : 1458546.9/18

Left In: 191.239+/-0.034 χ^2/NDF : 817221.1/20

Left: 189.822+/-0.024 χ^2/NDF : 1613908.0/43

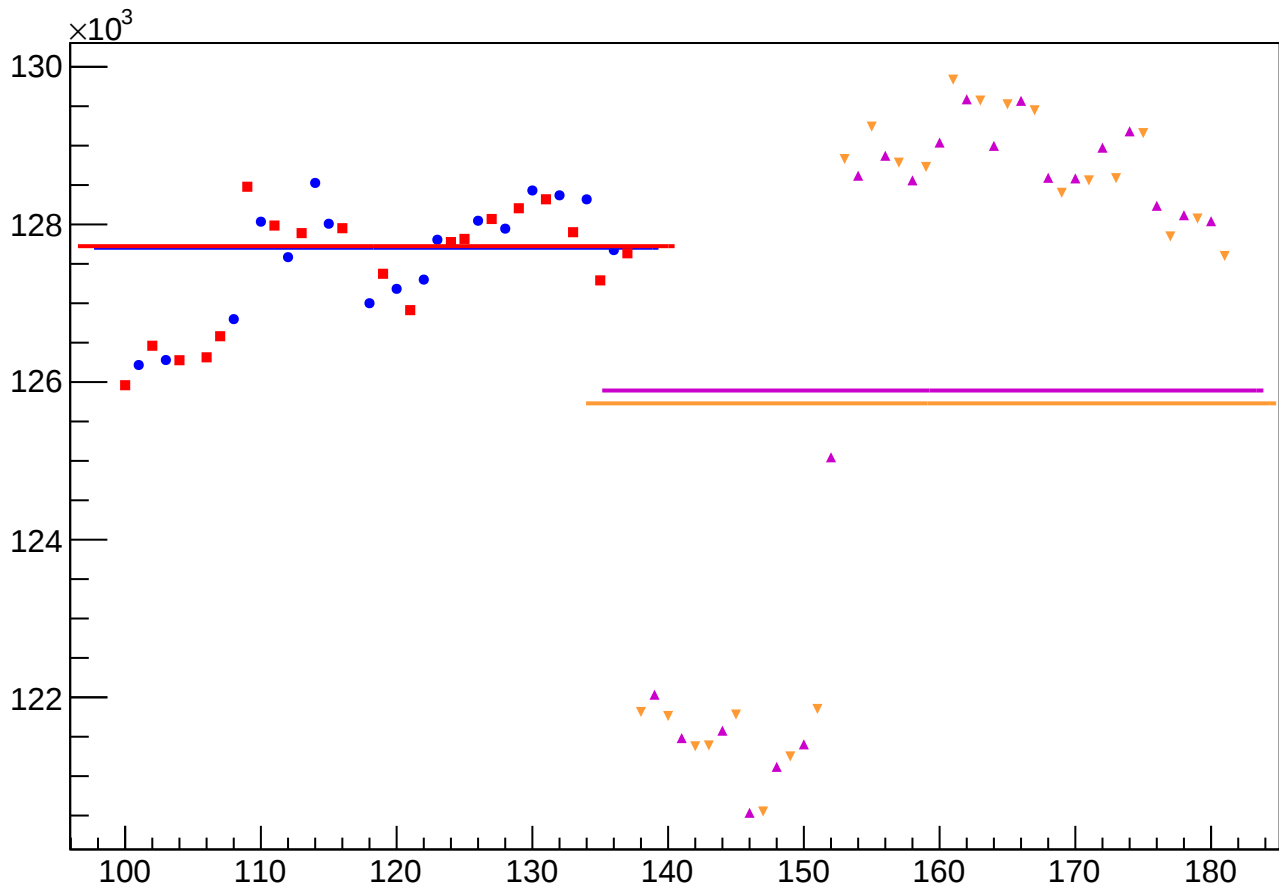
Right: 123.855+/-0.025 χ^2/NDF : 2909560.8/35

In: 161.764+/-0.025 χ^2/NDF : 3902766.6/37

Out: 157.293+/-0.024 χ^2/NDF : 4230540.7/41

All: 159.396+/-0.017 χ^2/NDF : 8150005.0/79

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127704.536 $\pm$ 0.058

χ^2 /NDF: 97614287.1/16

Left Out: 125729.971 $\pm$ 0.045

χ^2 /NDF: 6517423093.6/22

Right Out: 127724.288 $\pm$ 0.055

χ^2 /NDF: 112647022.0/18

Left In: 125892.913 $\pm$ 0.046

χ^2 /NDF: 5749633846.4/20

Left: 125810.177 $\pm$ 0.032

χ^2 /NDF: 12273535716.7

Right: 127715.047 $\pm$ 0.040

χ^2 /NDF: 210322651.4/3

In: 126582.667 $\pm$ 0.036

χ^2 /NDF: 6447765541.8/3

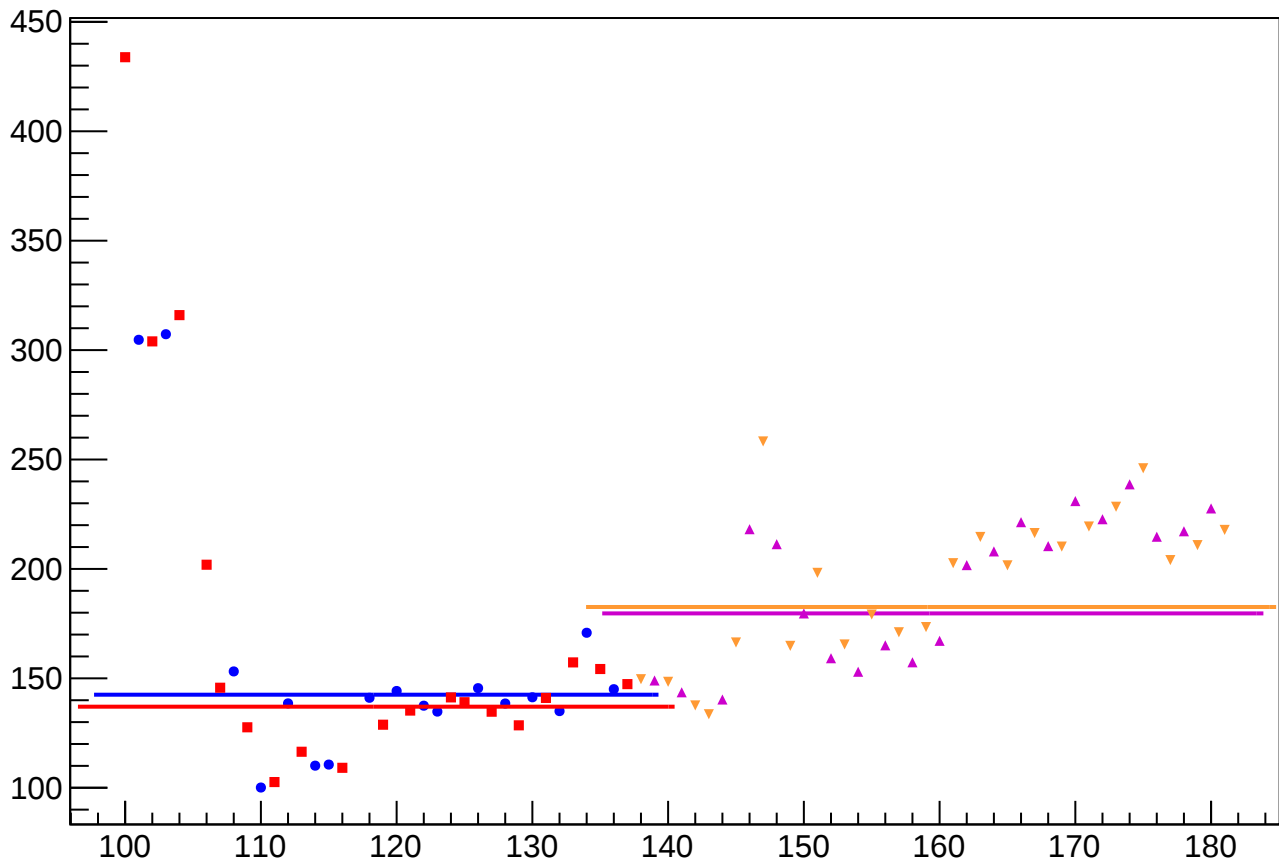
Out: 126535.699 $\pm$ 0.035

χ^2 /NDF: 7426661204.1/4

All: 126558.369 $\pm$ 0.025

χ^2 /NDF: 138753124

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.524+/-0.041 χ^2/NDF : 836220.9/16

Left Out: 182.606+/-0.032 χ^2/NDF : 1036415.7/22

Right Out: 137.050+/-0.039 χ^2/NDF : 956482.5/18

Left In: 179.676+/-0.032 χ^2/NDF : 1002834.2/20

Left: 181.163+/-0.023 χ^2/NDF : 2043440.8/43

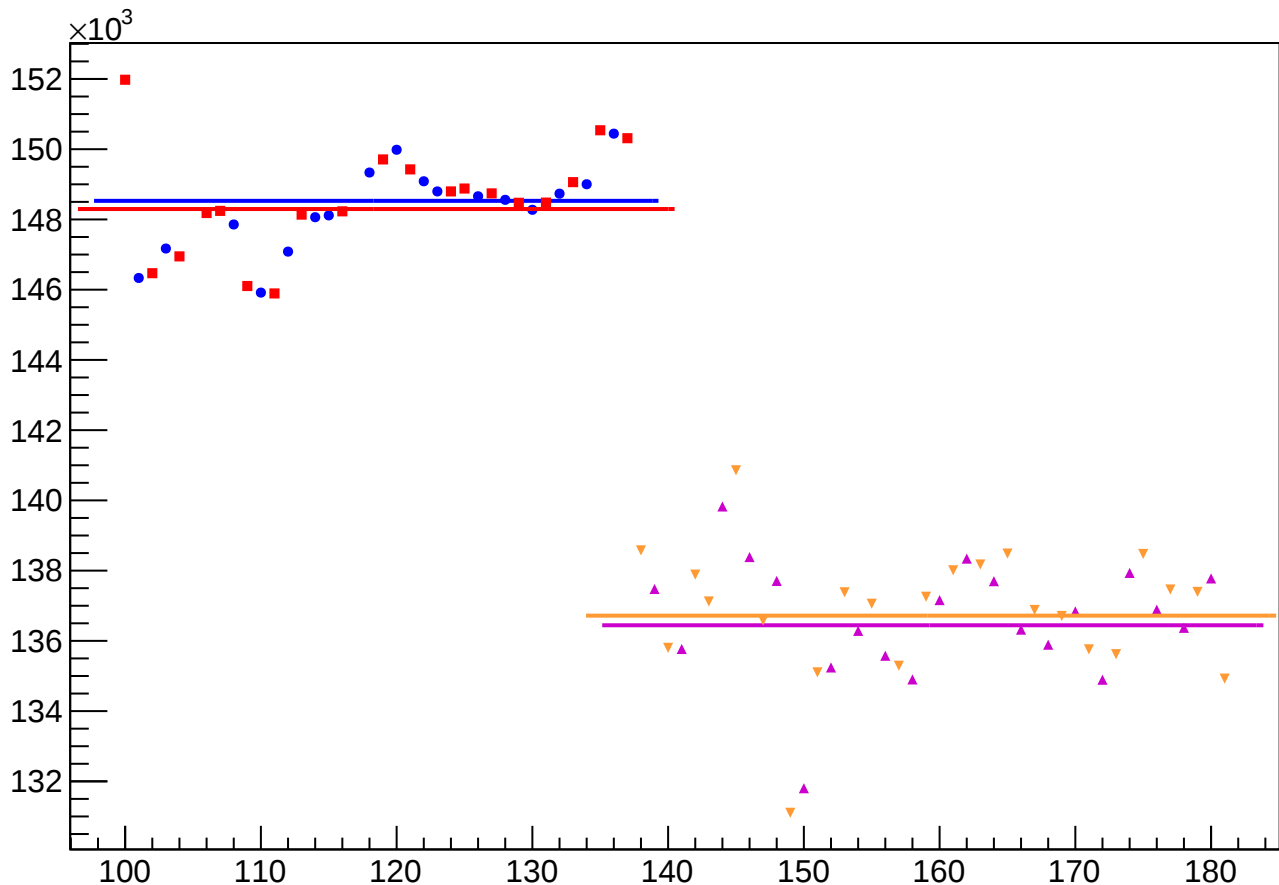
Right: 139.611+/-0.028 χ^2/NDF : 1802128.3/35

In: 165.531+/-0.025 χ^2/NDF : 2344141.9/37

Out: 164.201+/-0.025 χ^2/NDF : 2824227.3/41

All: 164.843+/-0.018 χ^2/NDF : 5169789.5/79

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148529.735 $\pm$ 0.082 χ^2 /NDF: 209963911.3/16

Left Out: 136718.161 $\pm$ 0.066 χ^2 /NDF: 899813538.5/22

Right Out: 148296.414 $\pm$ 0.076 χ^2 /NDF: 293172260.2/18

Left In: 136444.110 $\pm$ 0.067 χ^2 /NDF: 685902163.9/20

Left: 136583.440 $\pm$ 0.047 χ^2 /NDF: 1594111412.0/4

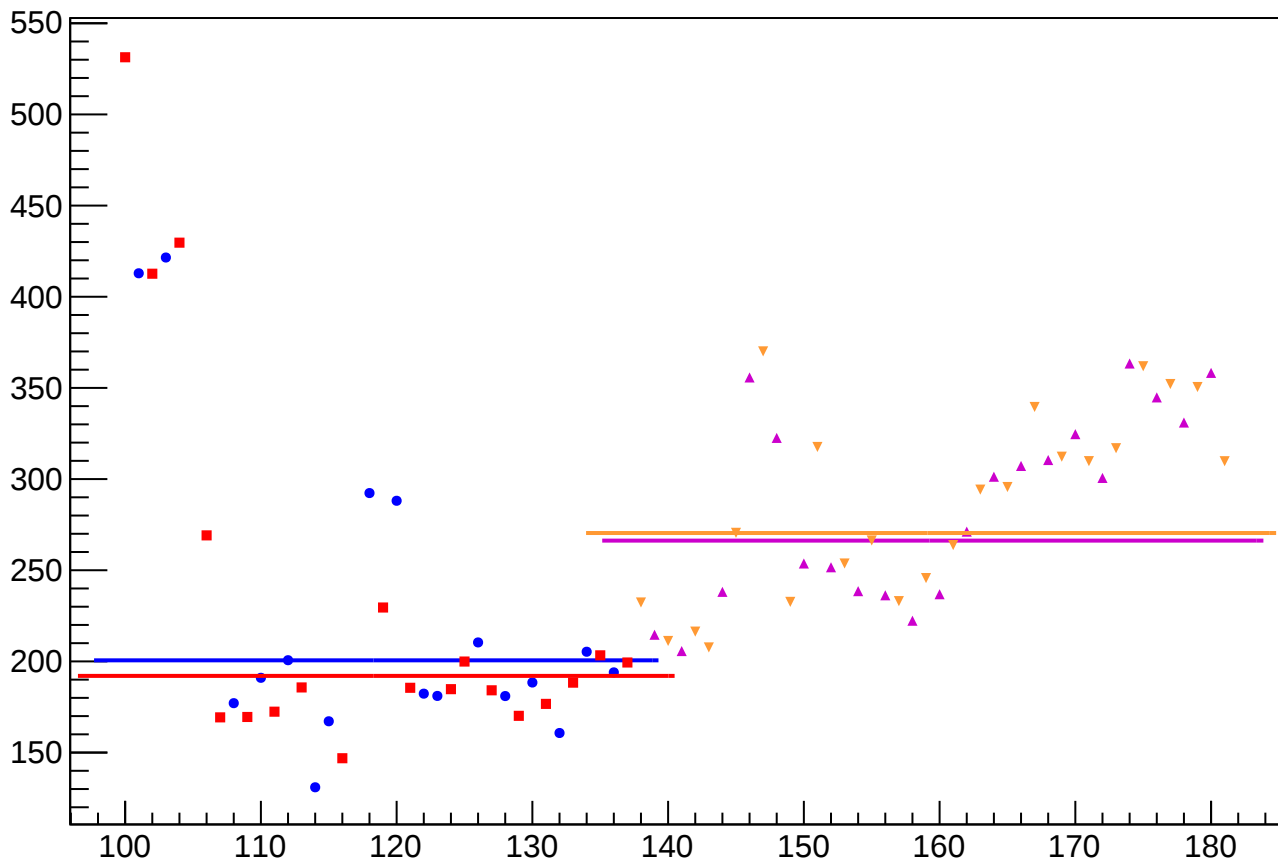
Right: 148404.511 $\pm$ 0.056 χ^2 /NDF: 507452913.3/3

In: 141301.279 $\pm$ 0.052 χ^2 /NDF: 13803064956.9/3

Out: 141690.314 $\pm$ 0.050 χ^2 /NDF: 14284188686.8

All: 141503.650 $\pm$ 0.036 χ^2 /NDF: 281161963

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 200.585 $\pm$ 0.058 χ^2 /NDF: 935452.3/16

Left Out: 270.415 $\pm$ 0.047 χ^2 /NDF:1047095.3/22

Right Out: 192.054 $\pm$ 0.054 χ^2 /NDF: 845373.5/18

Left In: 266.250 $\pm$ 0.048 χ^2 /NDF:1032014.2/20

Left: 268.367 $\pm$ 0.033 χ^2 /NDF: 2082988.0/43

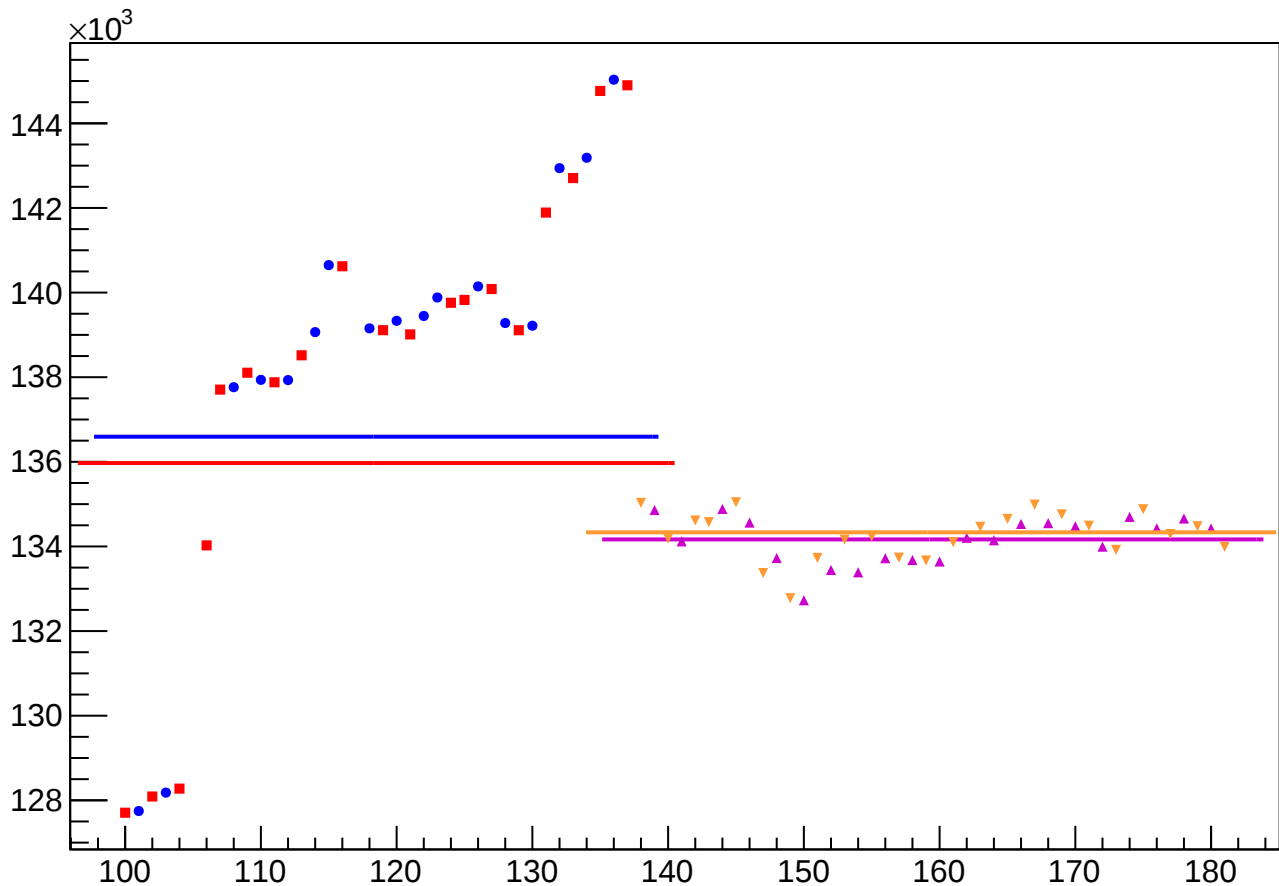
Right: 196.006 $\pm$ 0.040 χ^2 /NDF: 1792367.6/35

In: 239.859 $\pm$ 0.037 χ^2 /NDF:2729527.2/37

Out: 236.763 $\pm$ 0.035 χ^2 /NDF:3091750.2/41

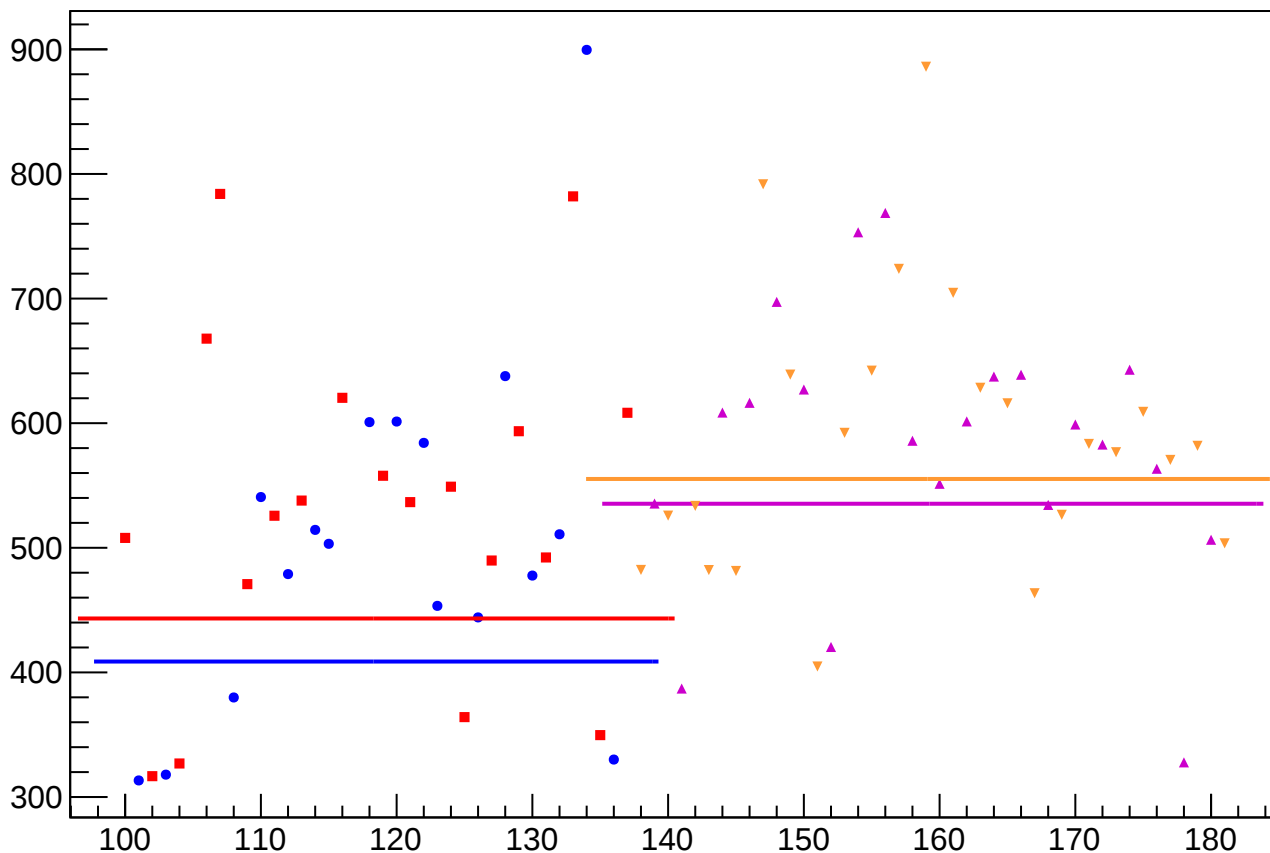
All: 238.249 $\pm$ 0.026 χ^2 /NDF: 5824942.6/79

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136593.896 $\pm$ 0.172	χ^2 /NDF: 1493317567.5/16	Left: 134251.687 $\pm$ 0.101	χ^2 /NDF: 29064506.2/43
Left Out: 134333.794 $\pm$ 0.142	χ^2 /NDF: 14697785.4/22	Right: 136301.988 $\pm$ 0.125	χ^2 /NDF: 2580296104.5/16
Right Out: 135970.927 $\pm$ 0.183	χ^2 /NDF: 1080815746.9/18	In: 135176.673 $\pm$ 0.111	χ^2 /NDF: 1623609567.4/37
Left In: 134166.018 $\pm$ 0.145	χ^2 /NDF: 13683673.6/20	Out: 134949.406 $\pm$ 0.112	χ^2 /NDF: 1145486384.2/4
		All: 135064.414 $\pm$ 0.079	χ^2 /NDF: 277117299.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 408.721+/-0.121 χ^2/NDF : 830375.0/16

Left Out: 555.231+/-0.100 χ^2/NDF : 920736.0/22

Right Out: 443.274+/-0.129 χ^2/NDF : 916555.3/18

Left In: 535.349+/-0.103 χ^2/NDF : 1315369.5/20

Left: 545.501+/-0.072 χ^2/NDF : 2255289.5/43

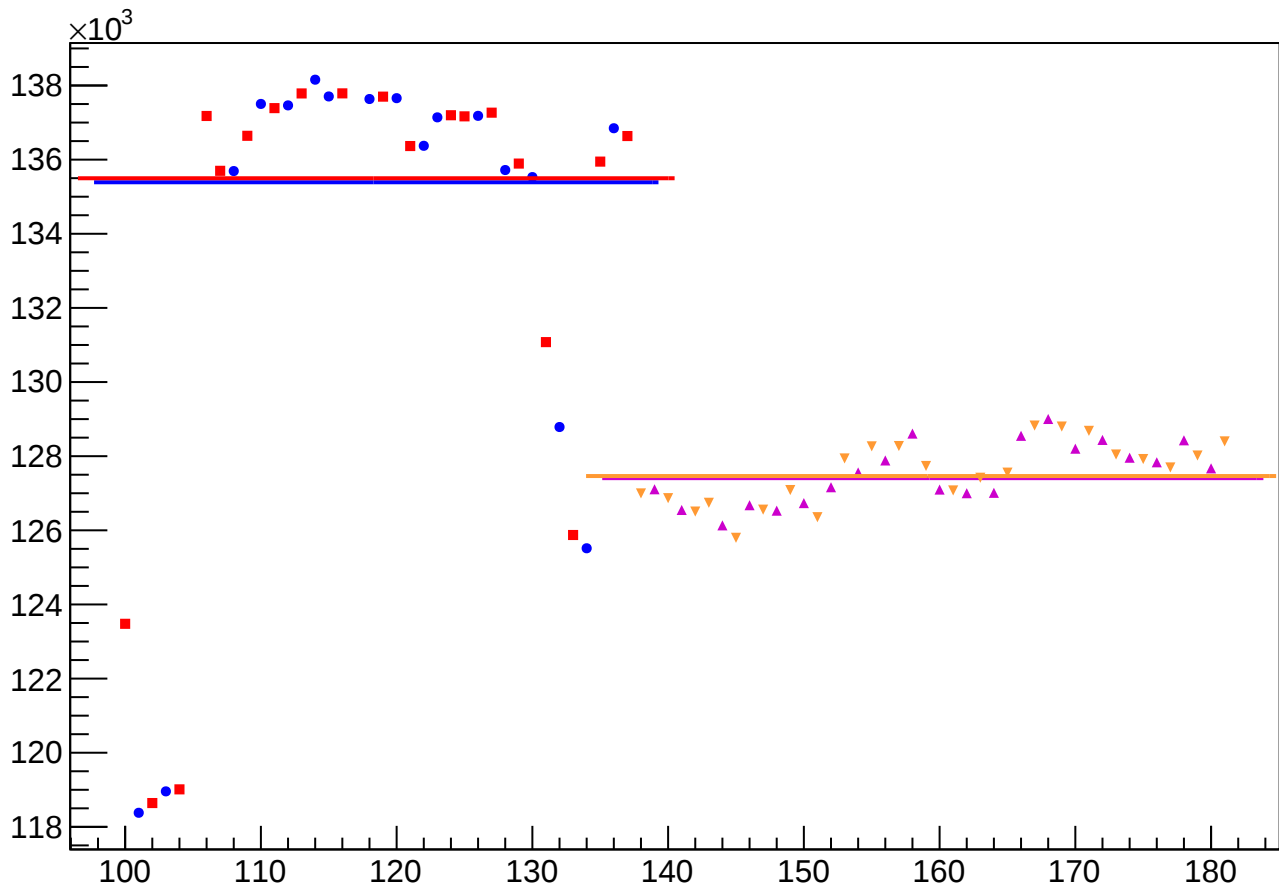
Right: 424.912+/-0.089 χ^2/NDF : 1784847.3/35

In: 482.637+/-0.078 χ^2/NDF : 2780143.5/37

Out: 513.131+/-0.079 χ^2/NDF : 2304701.8/41

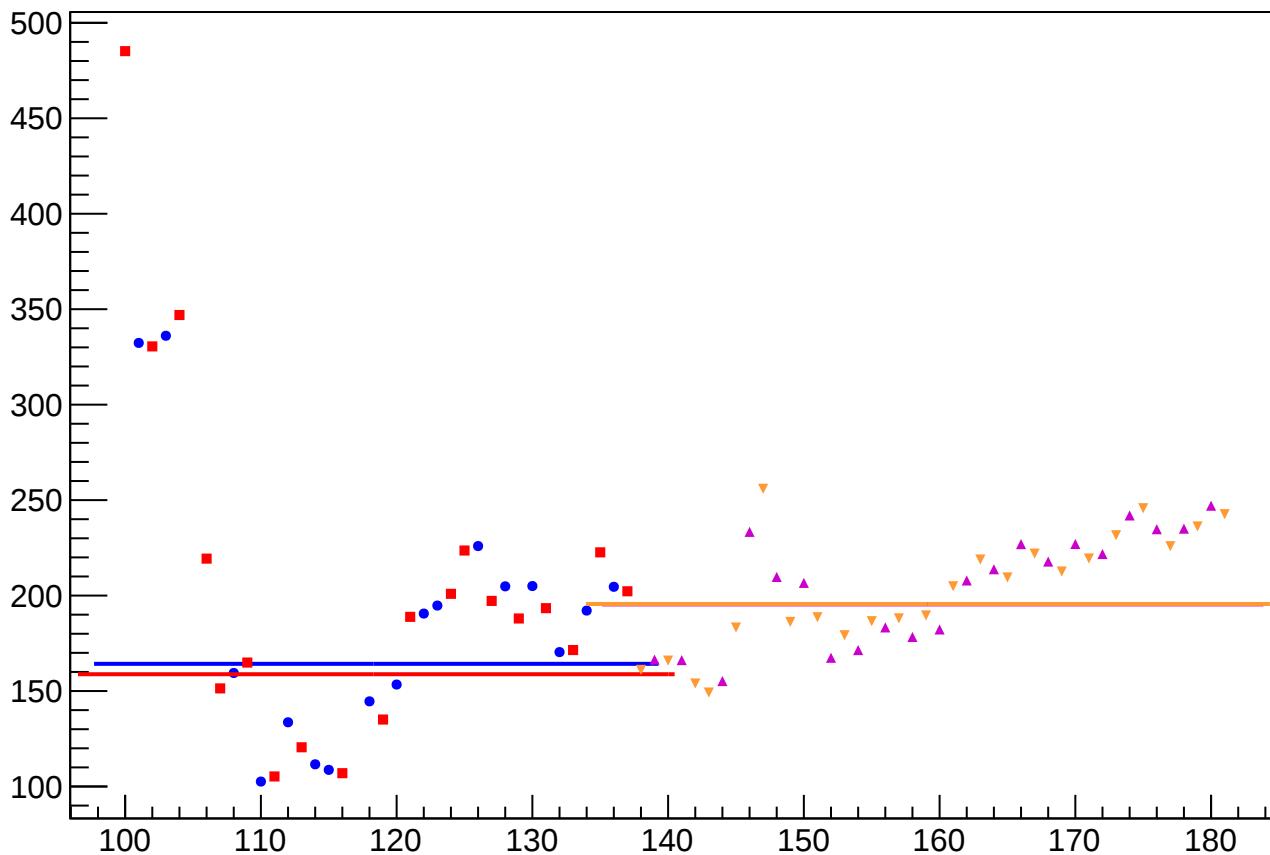
All: 497.700+/-0.056 χ^2/NDF : 5159633.5/79

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135389.443+/-0.068	χ^2/NDF : 4578120272.5/16	Left: 127436.689+/-0.034	χ^2/NDF : 567107739.7/43
Left Out: 127464.159+/-0.048	χ^2/NDF : 297260620.3/22	Right: 135446.829+/-0.047	χ^2/NDF : 9318066155.5/16
Right Out: 135497.758+/-0.064	χ^2/NDF : 4738615601.8/18	In: 130133.459+/-0.040	χ^2/NDF : 13826045072.3/3
Left In: 127407.483+/-0.049	χ^2/NDF : 269164067.7/20	Out: 130313.630+/-0.038	χ^2/NDF : 15079149766.3/16
		All: 130227.213+/-0.028	χ^2/NDF : 289157804.7/16

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 164.250+/-0.048 χ^2/NDF : 1227814.4/16

Left Out: 195.604+/-0.034 χ^2/NDF : 735908.8/22

Right Out: 158.804+/-0.046 χ^2/NDF : 1376920.6/18

Left In: 195.366+/-0.035 χ^2/NDF : 686448.7/20

Left: 195.489+/-0.024 χ^2/NDF : 1422381.5/43

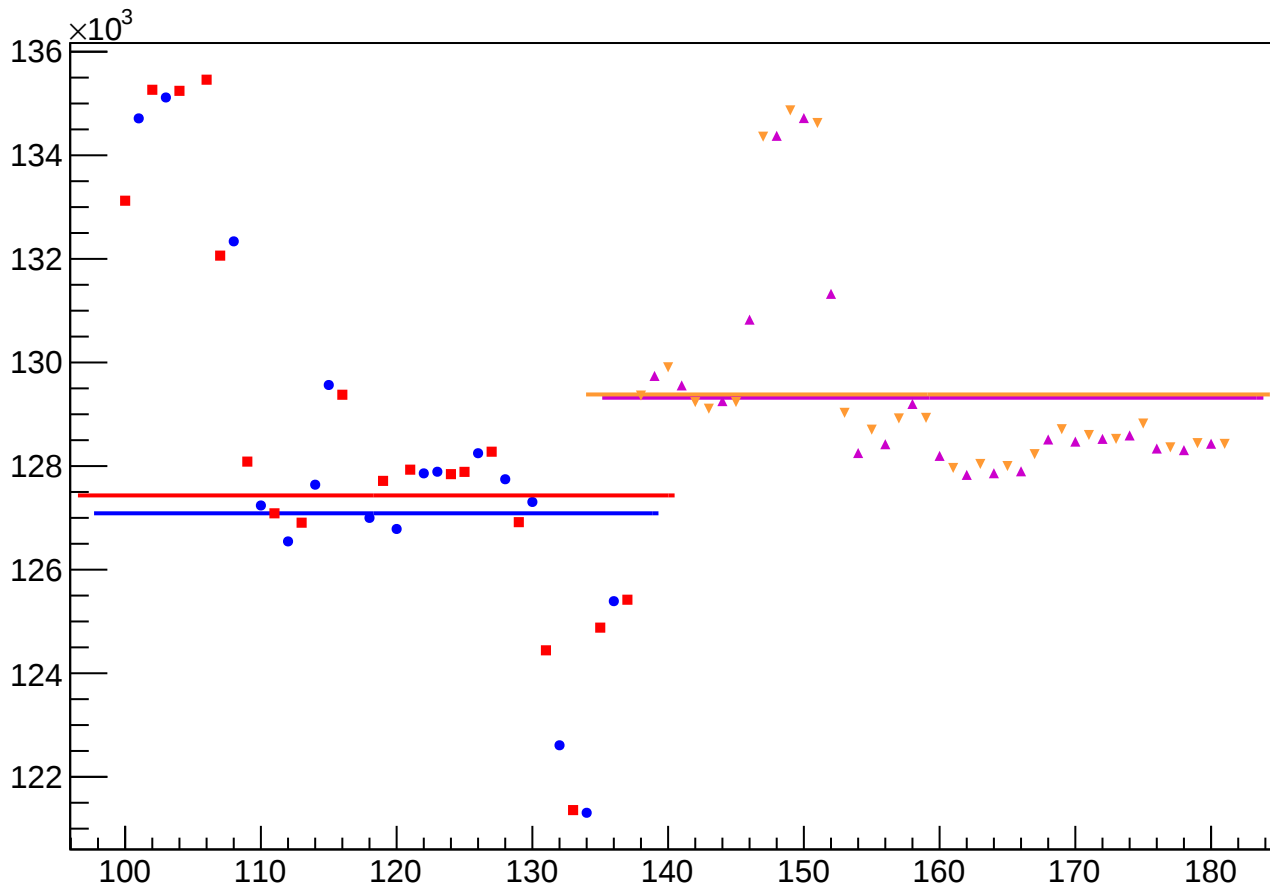
Right: 161.365+/-0.033 χ^2/NDF : 2611460.2/35

In: 184.739+/-0.028 χ^2/NDF : 2187162.7/37

Out: 182.551+/-0.027 χ^2/NDF : 2534303.5/41

All: 183.601+/-0.020 χ^2/NDF : 4724589.1/79

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 127088.167 $\pm$ 0.066 χ^2 /NDF: 1716591601.9/16

Left Out: 129382.699 $\pm$ 0.048 χ^2 /NDF: 1422762406.4/22

Right Out: 127433.358 $\pm$ 0.062 χ^2 /NDF: 2081739412.0/18

Left In: 129319.778 $\pm$ 0.049 χ^2 /NDF: 1180132003.3/20

Left: 129352.147 $\pm$ 0.034 χ^2 /NDF: 2603741754.0/16

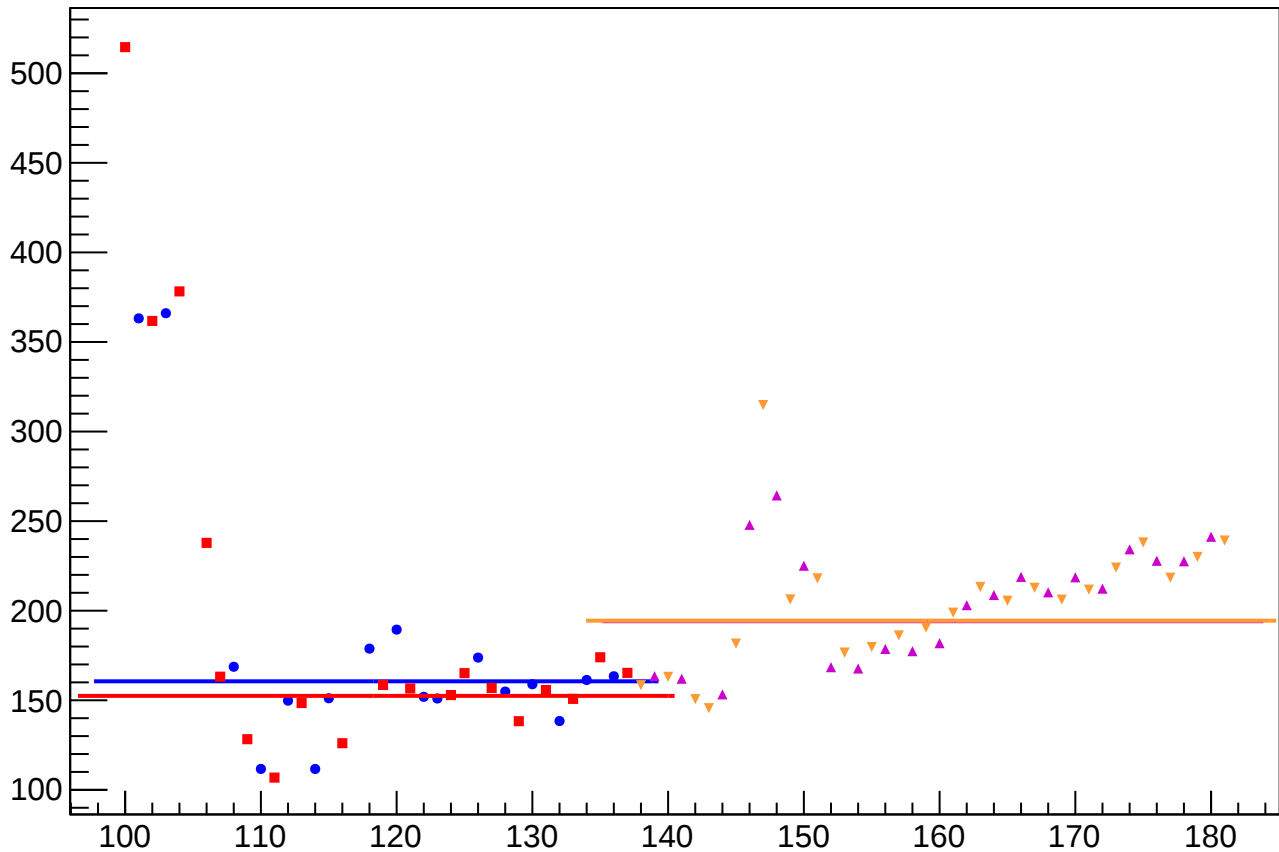
Right: 127273.865 $\pm$ 0.045 χ^2 /NDF: 3812853475.7/16

In: 128532.994 $\pm$ 0.039 χ^2 /NDF: 3627202903.1/30

Out: 128652.901 $\pm$ 0.038 χ^2 /NDF: 4131584563.8/40

All: 128595.706 $\pm$ 0.027 χ^2 /NDF: 776361950.0/100

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 160.589 $\pm$ 0.047 χ^2 /NDF: 942522.1/16

Left Out: 194.439 $\pm$ 0.034 χ^2 /NDF: 868370.7/22

Right Out: 152.452 $\pm$ 0.044 χ^2 /NDF: 1084973.3/18

Left In: 194.127 $\pm$ 0.035 χ^2 /NDF: 797988.7/20

Left: 194.288 $\pm$ 0.024 χ^2 /NDF: 1666401.1/43

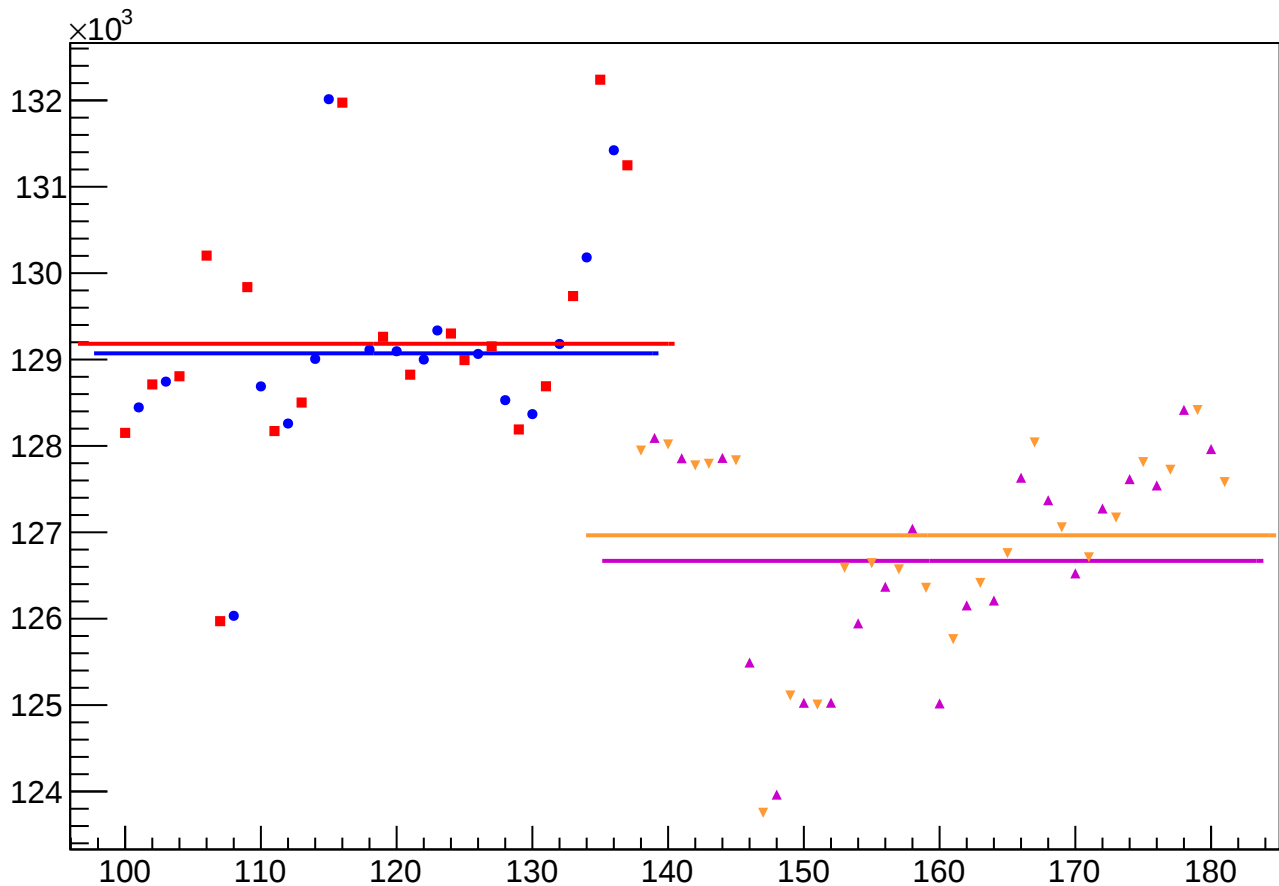
Right: 156.211 $\pm$ 0.032 χ^2 /NDF: 2043633.6/35

In: 182.302 $\pm$ 0.028 χ^2 /NDF: 2070485.7/37

Out: 178.720 $\pm$ 0.027 χ^2 /NDF: 2535206.4/41

All: 180.429 $\pm$ 0.019 χ^2 /NDF: 4614318.6/79

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 129071.617 $\pm$ 0.060

χ^2 /NDF: 476291091.1/16

Left Out: 126965.257 $\pm$ 0.046

χ^2 /NDF: 526546728.0/22

Right Out: 129182.486 $\pm$ 0.056

χ^2 /NDF: 625425272.9/18

Left In: 126669.377 $\pm$ 0.048

χ^2 /NDF: 658109291.9/20

Left: 126821.806 $\pm$ 0.033

χ^2 /NDF: 1204384991.0/4

Right: 129130.997 $\pm$ 0.041

χ^2 /NDF: 1103528566.8/7

In: 127597.179 $\pm$ 0.037

χ^2 /NDF: 2109380088.4/37

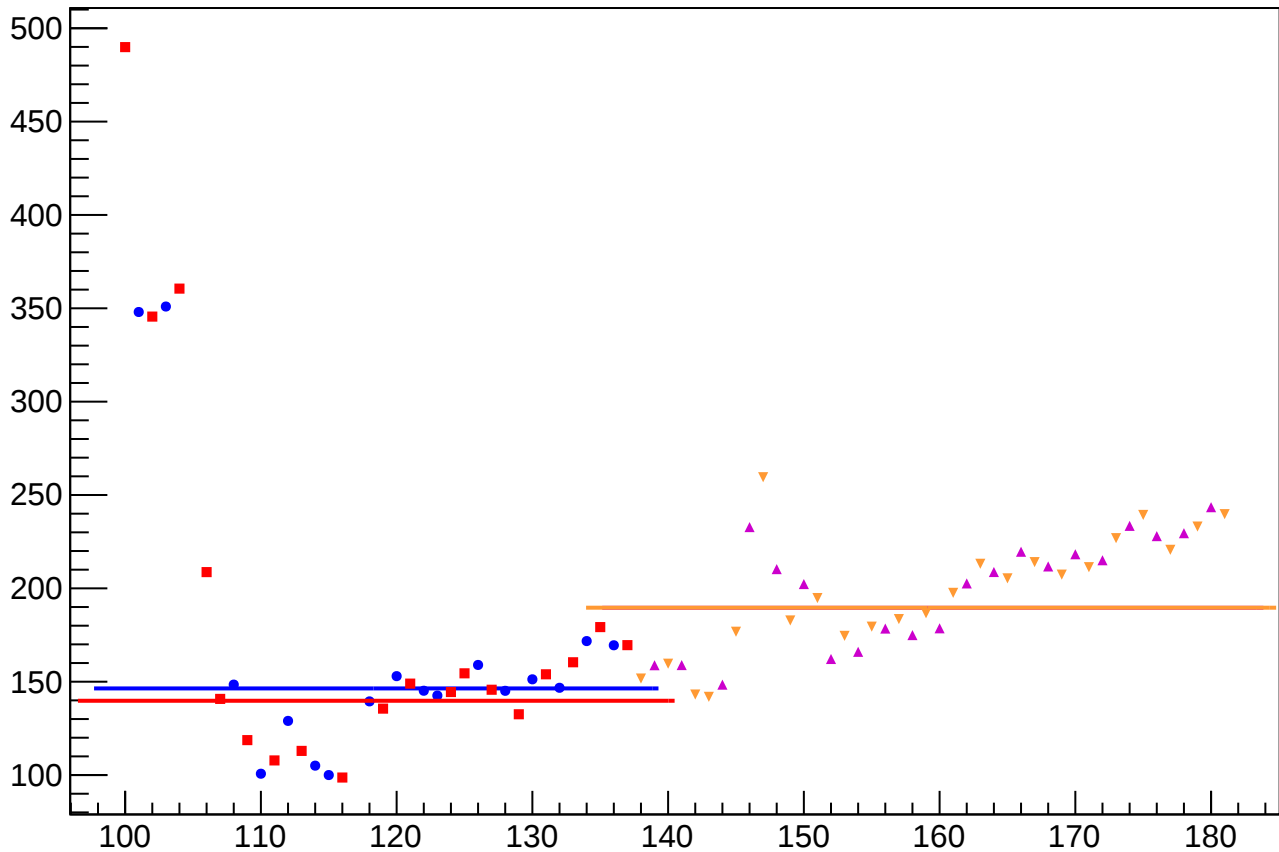
Out: 127865.019 $\pm$ 0.036

χ^2 /NDF: 2079279408.5/4

All: 127737.330 $\pm$ 0.026

χ^2 /NDF: 421541333.0/10

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 146.401 $\pm$ 0.043 χ^2 /NDF: 1066973.0/16

Left Out: 189.639 $\pm$ 0.033 χ^2 /NDF: 863610.5/22

Right Out: 139.793 $\pm$ 0.040 χ^2 /NDF: 1200865.0/18

Left In: 189.575 $\pm$ 0.034 χ^2 /NDF: 750043.4/20

Left: 189.608 $\pm$ 0.024 χ^2 /NDF: 1613655.6/43

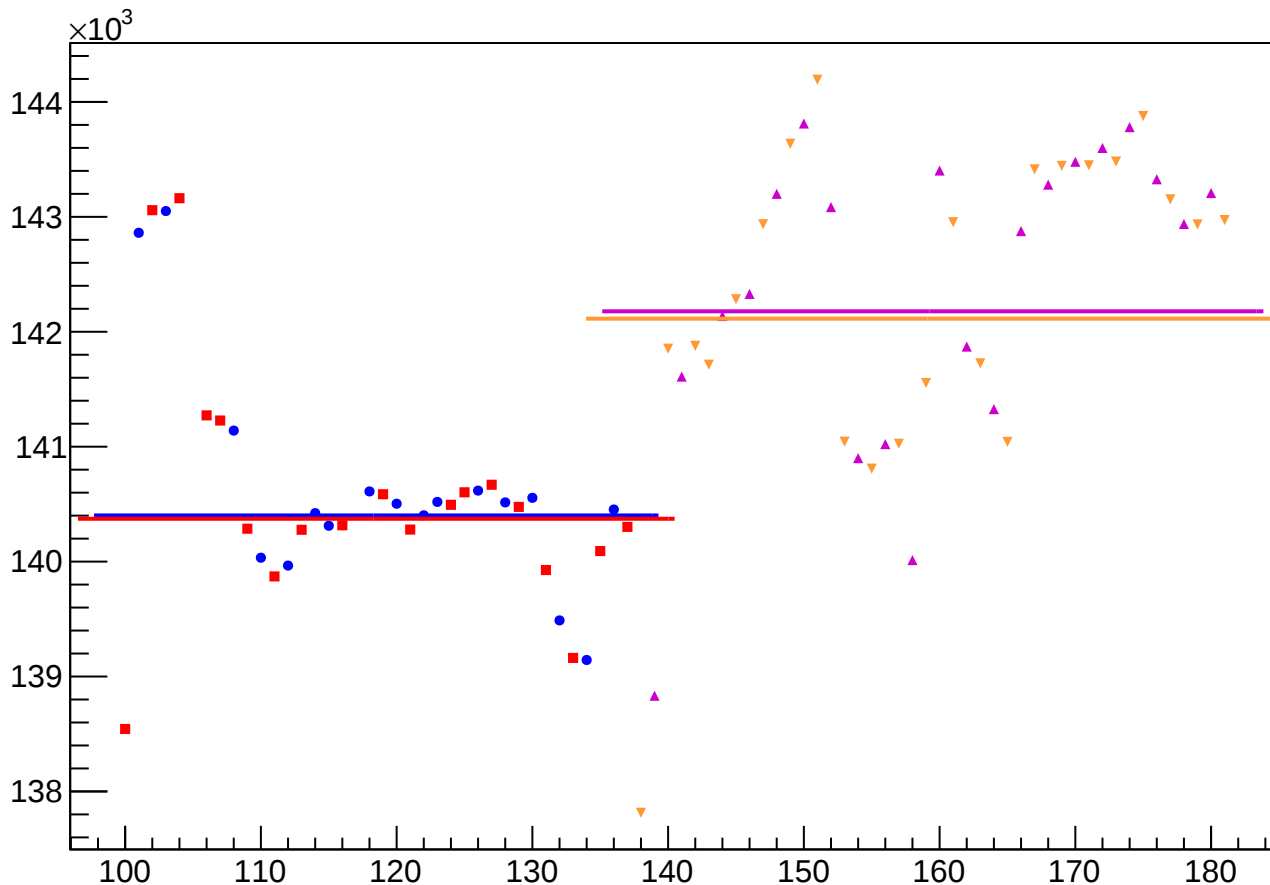
Right: 142.862 $\pm$ 0.029 χ^2 /NDF: 2280713.0/35

In: 172.900 $\pm$ 0.026 χ^2 /NDF: 2446876.9/37

Out: 169.411 $\pm$ 0.025 χ^2 /NDF: 3001813.7/41

All: 171.075 $\pm$ 0.018 χ^2 /NDF: 5457770.3/79

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140401.573 $\pm$ 0.064

χ^2 /NDF: 88055814.0/16

Left Out: 142113.876 $\pm$ 0.053

χ^2 /NDF: 806119651.5/22

Right Out: 140372.890 $\pm$ 0.060

χ^2 /NDF: 99844698.8/18

Left In: 142178.008 $\pm$ 0.055

χ^2 /NDF: 641083633.9/20

Left: 142145.058 $\pm$ 0.038

χ^2 /NDF: 1447906663.3/4

Right: 140386.177 $\pm$ 0.044

χ^2 /NDF: 188006778.1/3

In: 141432.602 $\pm$ 0.042

χ^2 /NDF: 1169895510.2/37

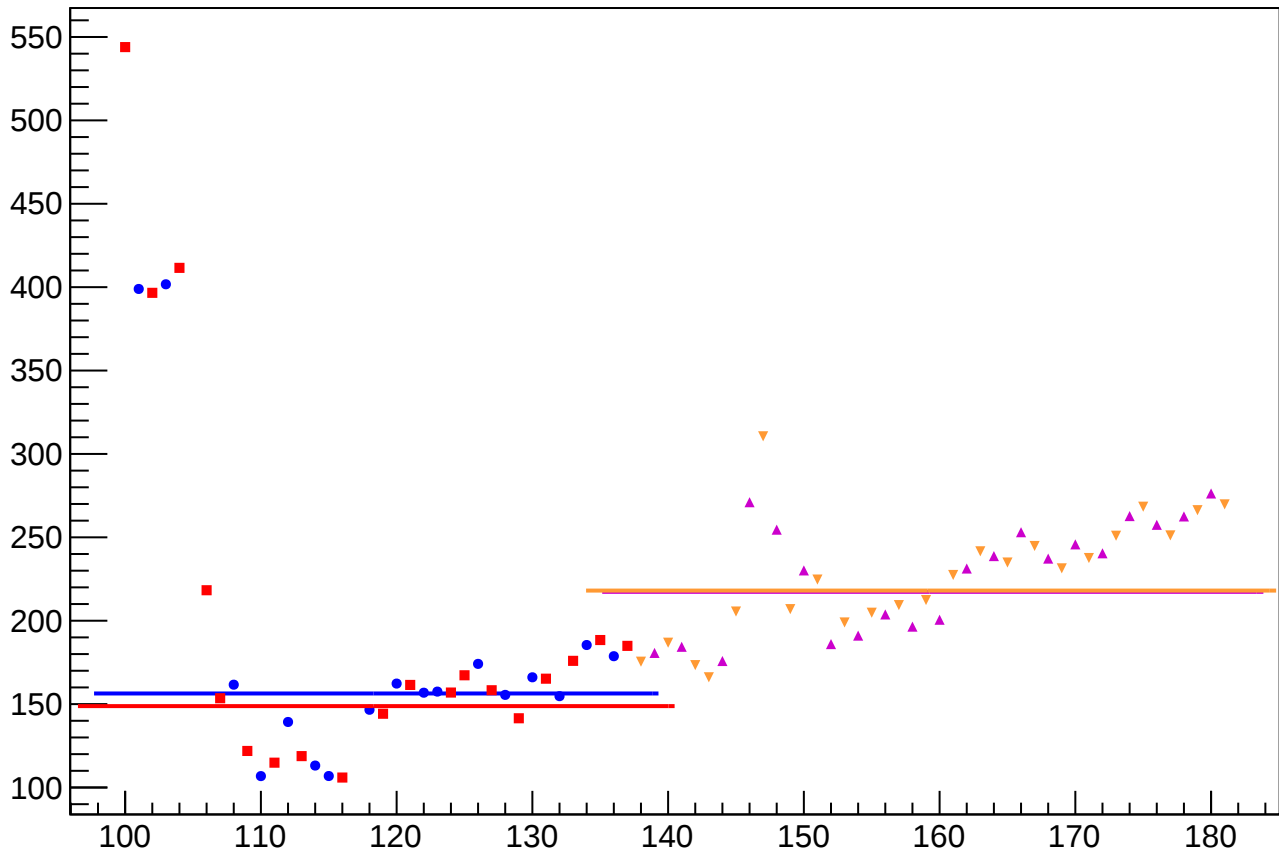
Out: 141343.998 $\pm$ 0.040

χ^2 /NDF: 1377405869.4/4

All: 141386.200 $\pm$ 0.029

χ^2 /NDF: 254965927.1/1

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 156.377 $\pm$ 0.046 χ^2 /NDF: 1154470.5/16

Left Out: 218.075 $\pm$ 0.038 χ^2 /NDF: 757640.2/22

Right Out: 148.800 $\pm$ 0.042 χ^2 /NDF: 1304529.7/18

Left In: 217.306 $\pm$ 0.039 χ^2 /NDF: 702771.1/20

Left: 217.701 $\pm$ 0.027 χ^2 /NDF: 1460613.6/43

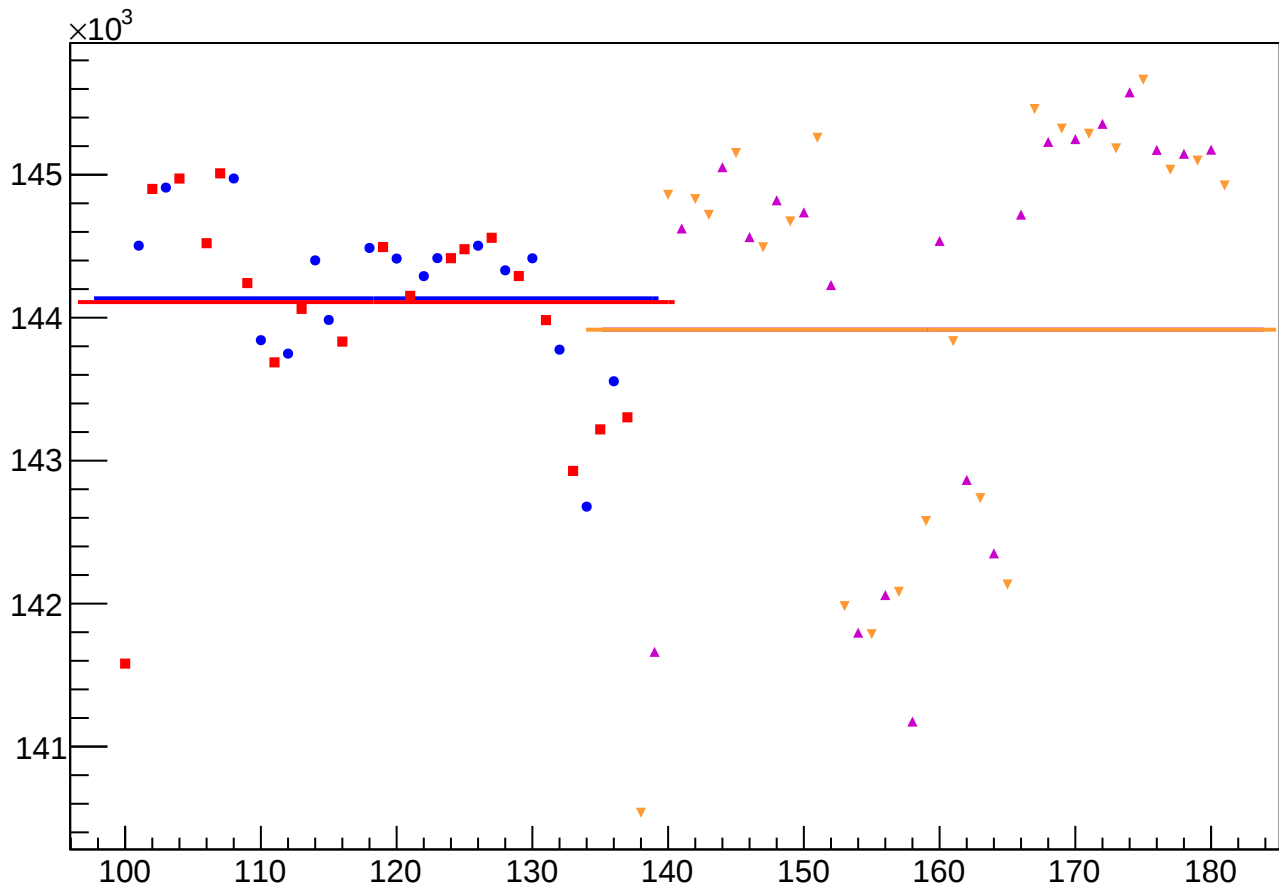
Right: 152.310 $\pm$ 0.031 χ^2 /NDF: 2473830.9/35

In: 191.739 $\pm$ 0.030 χ^2 /NDF: 2894240.9/37

Out: 187.441 $\pm$ 0.028 χ^2 /NDF: 3555030.2/41

All: 189.488 $\pm$ 0.020 χ^2 /NDF: 6460370.4/79

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 144135.363 $\pm$ 0.067

χ^2 /NDF: 47030717.0/16

Left: 143916.350 $\pm$ 0.038

χ^2 /NDF: 1568177068.8/4

Left Out: 143916.157 $\pm$ 0.053

χ^2 /NDF: 853007550.3/22

Right: 144121.238 $\pm$ 0.045

χ^2 /NDF: 112346812.4/3

Right Out: 144109.137 $\pm$ 0.062

χ^2 /NDF: 65233259.1/18

In: 144004.430 $\pm$ 0.042

χ^2 /NDF: 768606258.8/37

Out: 143998.066 $\pm$ 0.040

χ^2 /NDF: 923835675.7/41

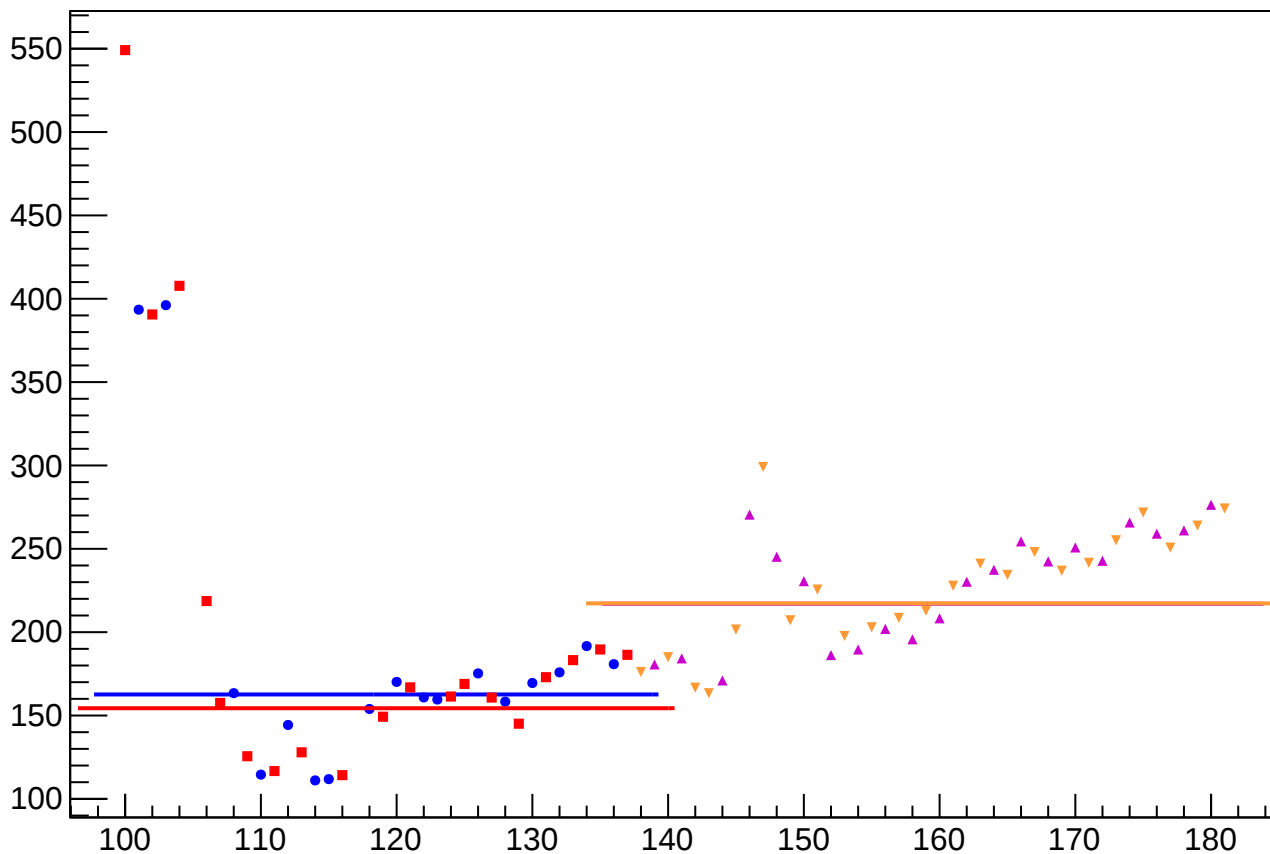
Left In: 143916.555 $\pm$ 0.055

χ^2 /NDF: 715169491.4/20

All: 144001.090 $\pm$ 0.029

χ^2 /NDF: 169245377

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 162.634 $\pm$ 0.047 χ^2/NDF : 1069524.2/16

Left Out: 217.284 $\pm$ 0.038 χ^2/NDF :817220.0/22

Right Out: 154.377 $\pm$ 0.044 χ^2/NDF : 1214462.2/18

Left In: 217.033 $\pm$ 0.039 χ^2/NDF :738403.8/20

Left: 217.162 $\pm$ 0.027 χ^2/NDF : 1555645.6/43

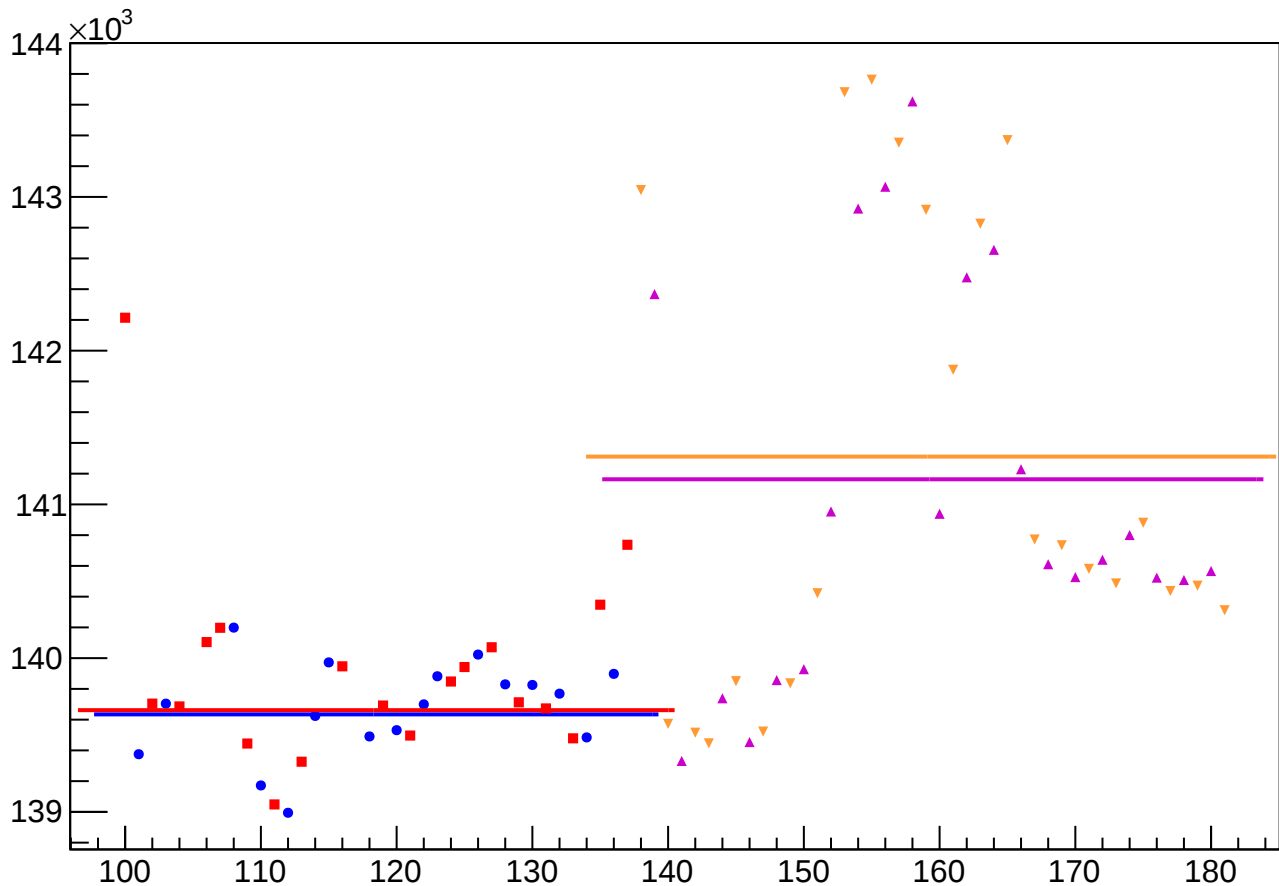
Right: 158.187 $\pm$ 0.032 χ^2/NDF : 2300407.0/35

In: 195.186 $\pm$ 0.030 χ^2/NDF :2599820.7/37

Out: 190.584 $\pm$ 0.029 χ^2/NDF :3220697.0/41

All: 192.770 $\pm$ 0.021 χ^2/NDF : 5832893.8/79

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 139634.248 $\pm$ 0.068

χ^2 /NDF: 24816599.6/16

Left Out: 141310.952 $\pm$ 0.055

χ^2 /NDF: 778425343.2/22

Right Out: 139661.708 $\pm$ 0.063

χ^2 /NDF: 38354381.9/18

Left In: 141163.432 $\pm$ 0.056

χ^2 /NDF: 548459556.7/20

Left: 141238.838 $\pm$ 0.039

χ^2 /NDF: 1330438152.1/4

Right: 139648.993 $\pm$ 0.046

χ^2 /NDF: 63258749.7/35

In: 140545.234 $\pm$ 0.043

χ^2 /NDF: 875242240.4/37

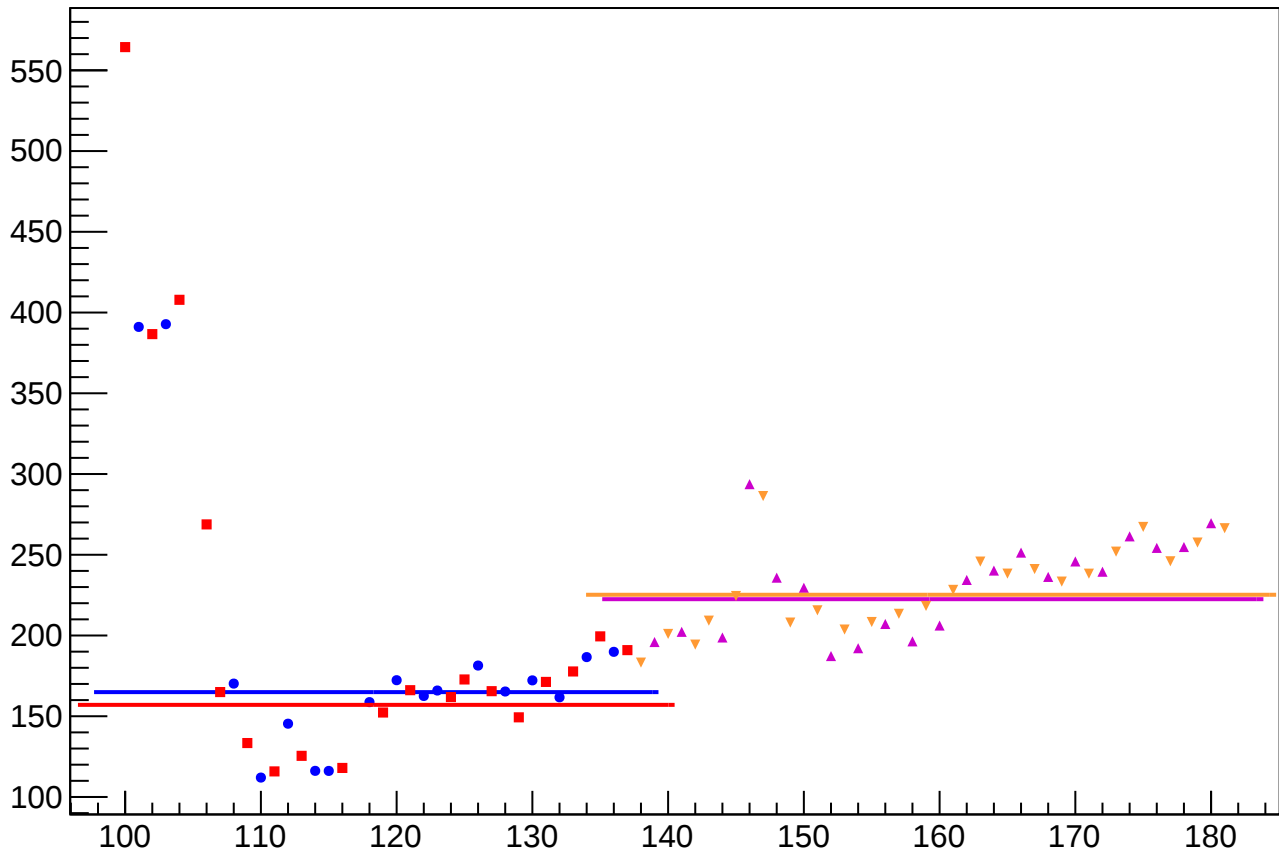
Out: 140602.756 $\pm$ 0.041

χ^2 /NDF: 1206891237.7/4

All: 140575.256 $\pm$ 0.030

χ^2 /NDF: 208305943

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 164.938 $\pm$ 0.048 χ^2 /NDF: 1064403.1/16

Left Out: 225.230 $\pm$ 0.039 χ^2 /NDF: 404065.3/22

Right Out: 157.047 $\pm$ 0.045 χ^2 /NDF: 1242666.6/18

Left In: 222.484 $\pm$ 0.040 χ^2 /NDF: 493880.9/20

Left: 223.888 $\pm$ 0.028 χ^2 /NDF: 900408.3/43

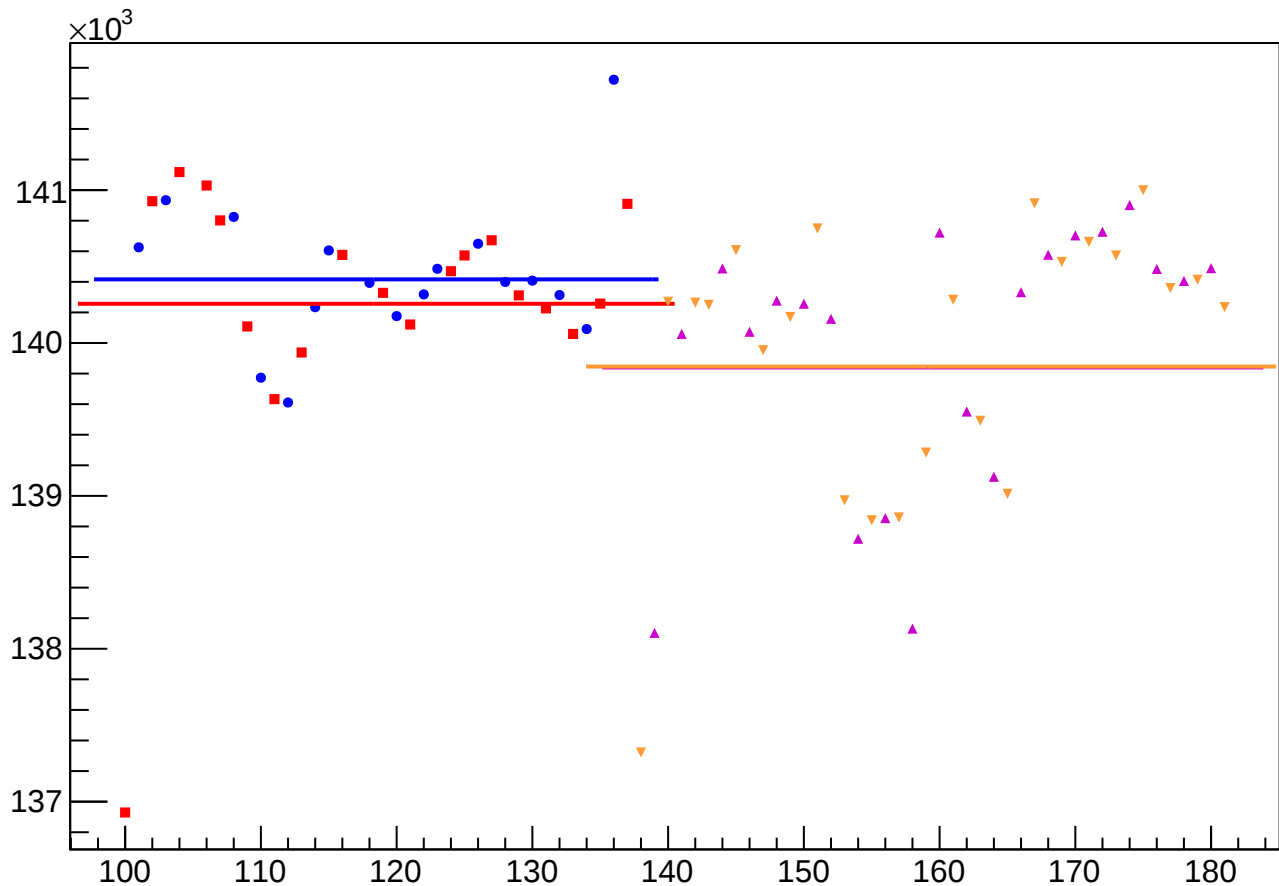
Right: 160.701 $\pm$ 0.033 χ^2 /NDF: 2321561.9/35

In: 199.220 $\pm$ 0.031 χ^2 /NDF: 2413563.5/37

Out: 195.952 $\pm$ 0.029 χ^2 /NDF: 2980246.1/41

All: 197.514 $\pm$ 0.021 χ^2 /NDF: 5399787.4/79

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140416.183 $\pm$ 0.069 χ^2 /NDF: 69956735.1/16

Left Out: 139845.973 $\pm$ 0.052 χ^2 /NDF: 328213092.5/22

Right Out: 140256.621 $\pm$ 0.063 χ^2 /NDF: 38038769.4/18

Left In: 139839.908 $\pm$ 0.054 χ^2 /NDF: 279470947.6/20

Left: 139843.036 $\pm$ 0.037 χ^2 /NDF: 607690610.7/43

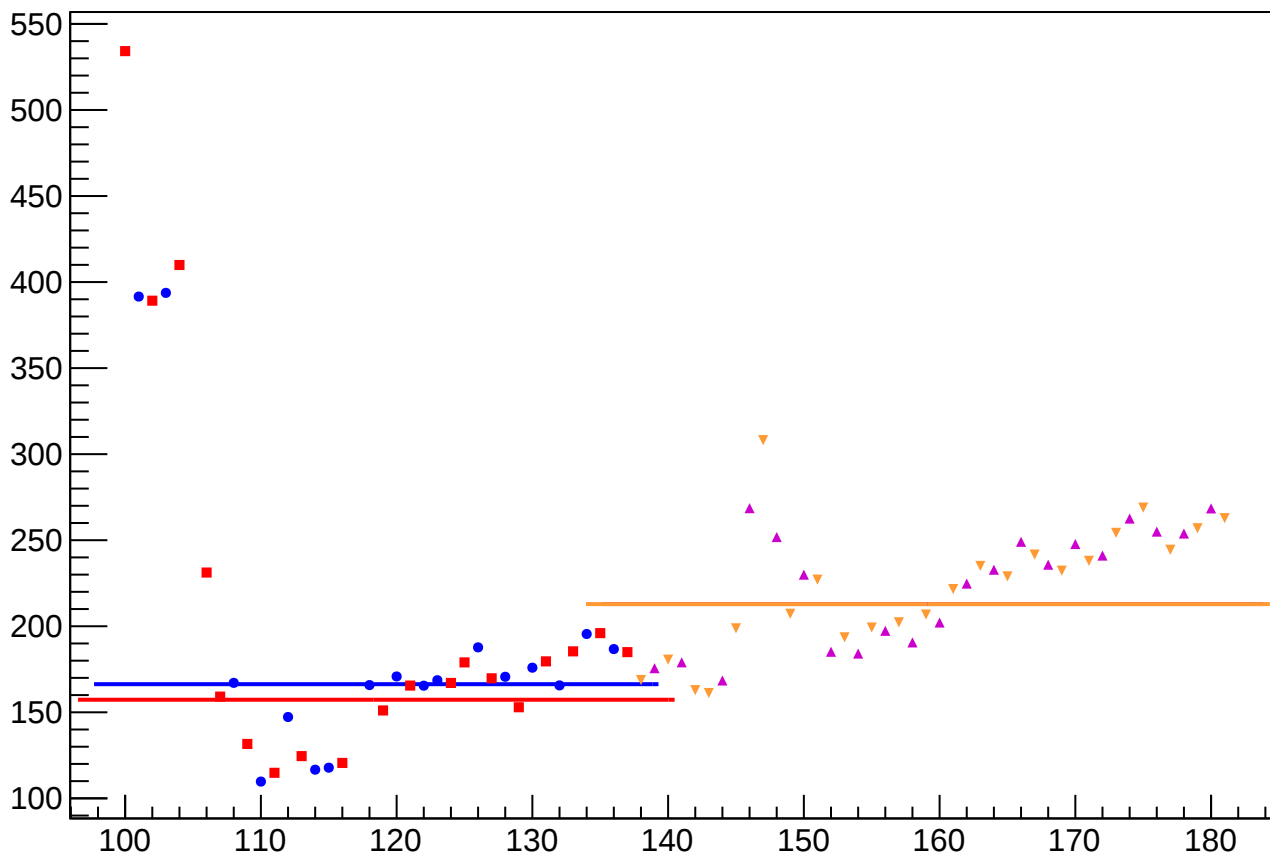
Right: 140329.953 $\pm$ 0.046 χ^2 /NDF: 110927465.2/37

In: 140059.433 $\pm$ 0.042 χ^2 /NDF: 393236564.7/37

Out: 140012.094 $\pm$ 0.040 χ^2 /NDF: 391412870.2/41

All: 140034.558 $\pm$ 0.029 χ^2 /NDF: 785308129.2/101

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 166.338 $\pm$ 0.048 χ^2/NDF : 1081005.6/16

Left Out: 212.867 $\pm$ 0.037 χ^2/NDF : 861532.2/22

Right Out: 157.302 $\pm$ 0.045 χ^2/NDF : 1226210.5/18

Left In: 212.901 $\pm$ 0.038 χ^2/NDF : 774197.7/20

Left: 212.884 $\pm$ 0.026 χ^2/NDF : 1635730.3/43

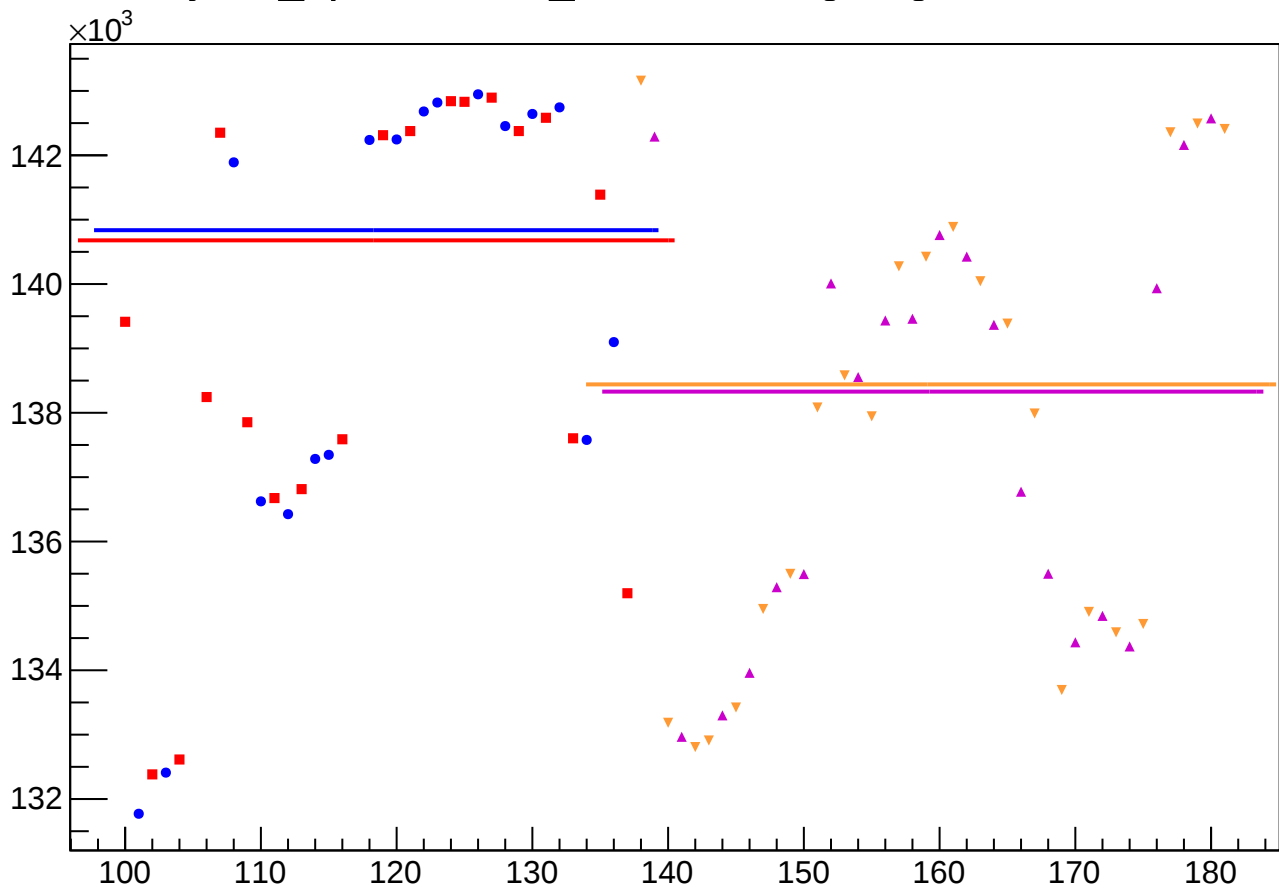
Right: 161.455 $\pm$ 0.033 χ^2/NDF : 2326018.0/35

In: 195.163 $\pm$ 0.030 χ^2/NDF : 2427241.0/37

Out: 190.390 $\pm$ 0.028 χ^2/NDF : 3009089.7/41

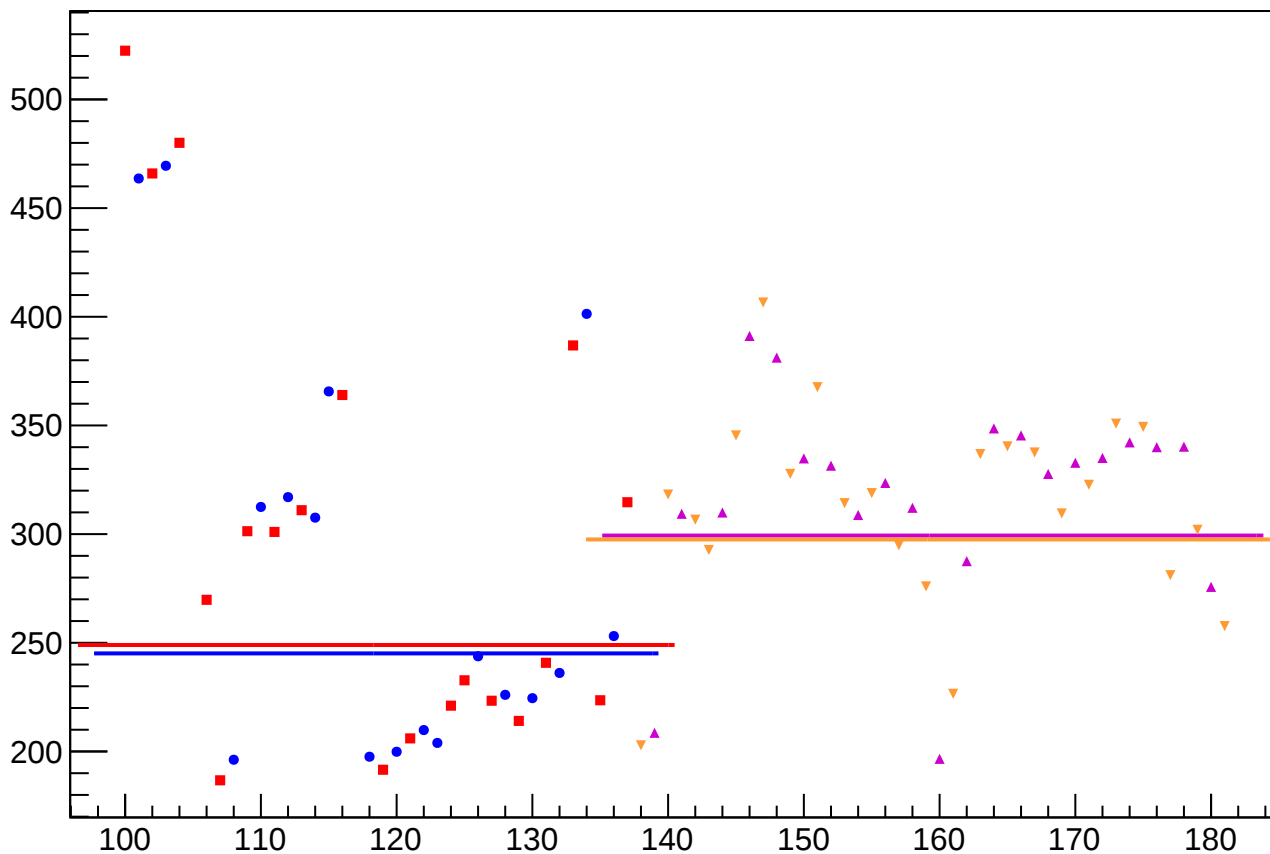
All: 192.655 $\pm$ 0.021 χ^2/NDF : 5449728.2/79

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 140836.633 $\pm$ 0.100	χ^2/NDF : 821253018.3/16	Left: 138387.245 $\pm$ 0.053	χ^2/NDF : 4114520164.7/4
Left Out: 138441.033 $\pm$ 0.073	χ^2/NDF : 2335695352.9/22	Right: 140756.822 $\pm$ 0.070	χ^2/NDF : 1663362290.3/4
Right Out: 140678.692 $\pm$ 0.099	χ^2/NDF : 840853098.4/18	In: 139249.655 $\pm$ 0.061	χ^2/NDF : 2995555153.3/37
Left In: 138328.817 $\pm$ 0.076	χ^2/NDF : 1777698774.9/20	Out: 139230.978 $\pm$ 0.059	χ^2/NDF : 3506314800.7/4
		All: 139240.034 $\pm$ 0.042	χ^2/NDF : 650191872.0/20

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 245.117 $\pm$ 0.071 χ^2/NDF : 868050.1/16

Left Out: 297.541 $\pm$ 0.052 χ^2/NDF : 885011.0/22

Right Out: 248.984 $\pm$ 0.070 χ^2/NDF : 1011335.0/18

Left In: 299.334 $\pm$ 0.054 χ^2/NDF : 1049100.1/20

Left: 298.400 $\pm$ 0.037 χ^2/NDF : 1934685.9/43

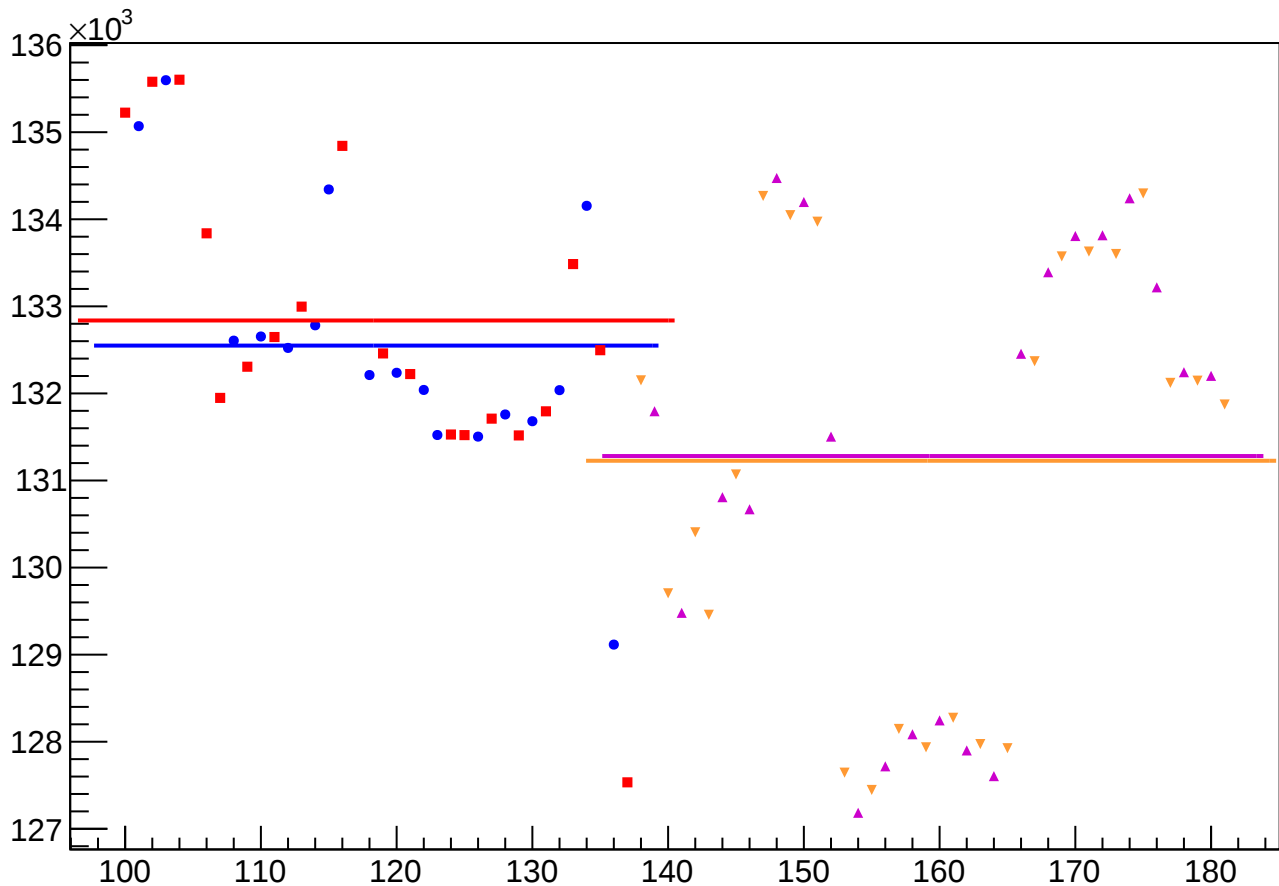
Right: 247.071 $\pm$ 0.050 χ^2/NDF : 1880891.1/35

In: 279.426 $\pm$ 0.043 χ^2/NDF : 2287889.1/37

Out: 280.399 $\pm$ 0.042 χ^2/NDF : 2206916.1/41

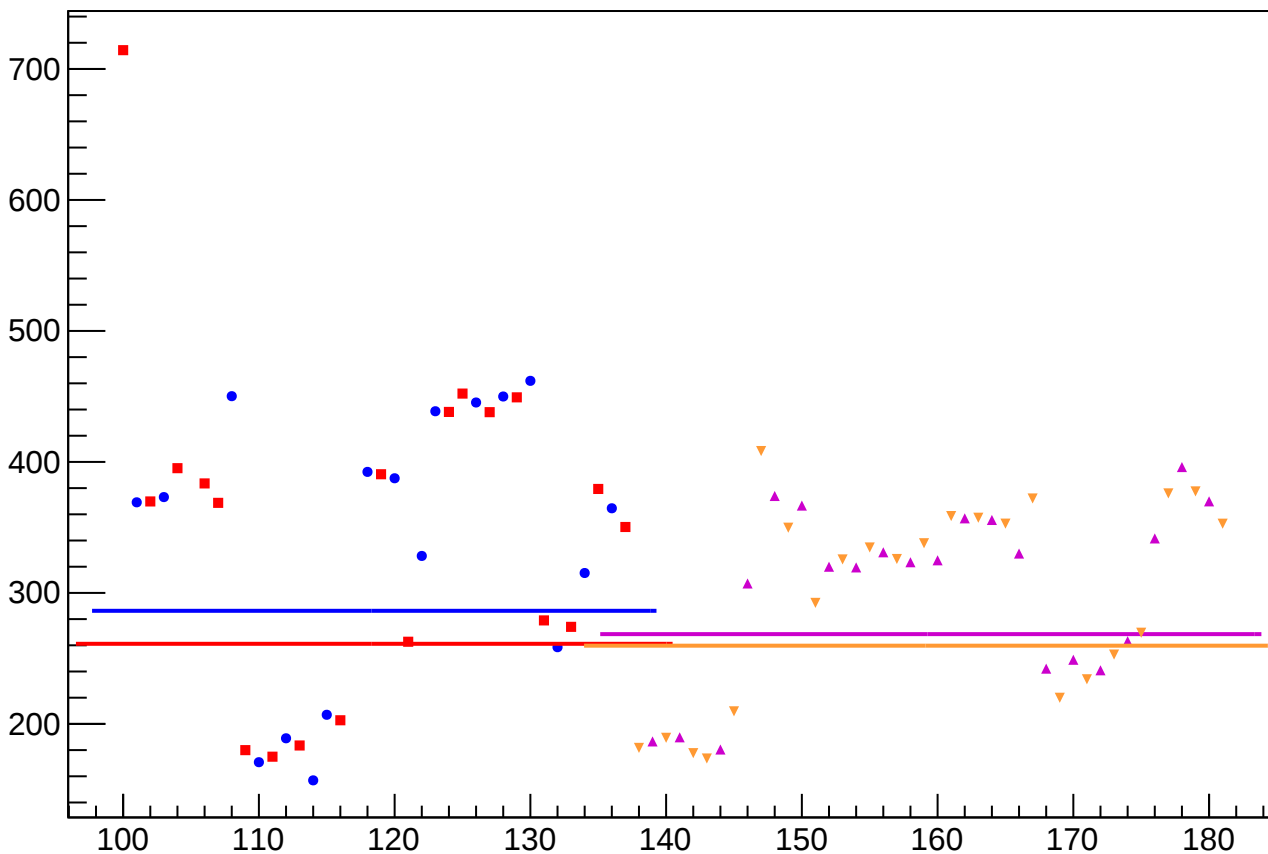
All: 279.927 $\pm$ 0.030 χ^2/NDF : 4495070.1/79

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 132549.335 $\pm$ 0.120	χ^2 /NDF: 161038742.0/16	Left: 131252.259 $\pm$ 0.048	χ^2 /NDF: 2222843164.7/4
Left Out: 131226.741 $\pm$ 0.065	χ^2 /NDF: 1166481257.9/22	Right: 132709.457 $\pm$ 0.080	χ^2 /NDF: 313937187.2/3
Right Out: 132837.715 $\pm$ 0.107	χ^2 /NDF: 149672642.4/18	In: 131600.371 $\pm$ 0.060	χ^2 /NDF: 1301160663.9/37
Left In: 131280.989 $\pm$ 0.069	χ^2 /NDF: 1056038397.4/20	Out: 131664.544 $\pm$ 0.056	χ^2 /NDF: 1480983714.0/4
		All: 131634.790 $\pm$ 0.041	χ^2 /NDF: 278275714

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 286.338+/-0.085 χ^2/NDF : 1514049.7/16

Left Out: 259.714+/-0.046 χ^2/NDF : 2594476.9/22

Right Out: 261.146+/-0.076 χ^2/NDF : 1614381.3/18

Left In: 268.536+/-0.049 χ^2/NDF : 2048510.6/20

Left: 263.864+/-0.034 χ^2/NDF : 4660101.1/43

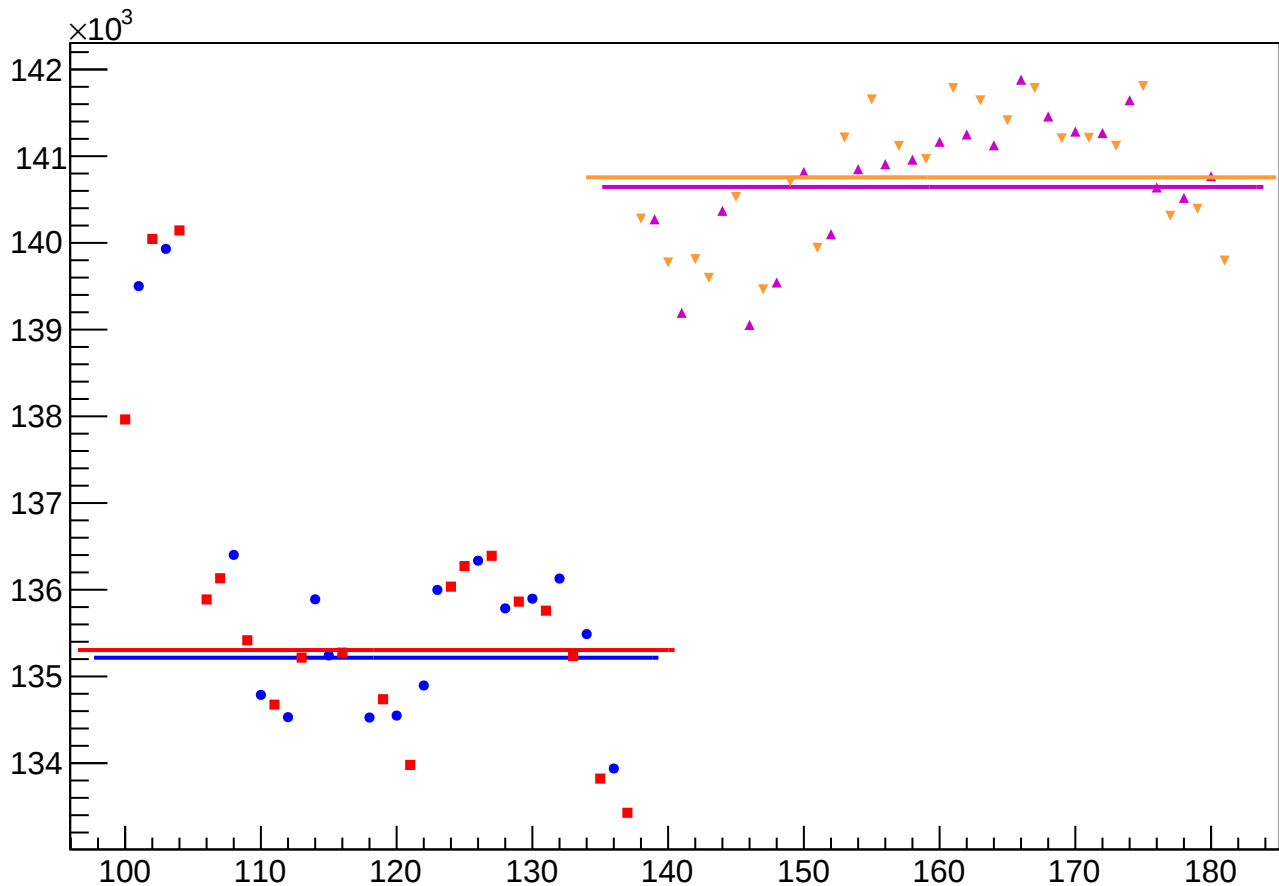
Right: 272.350+/-0.056 χ^2/NDF : 3177662.4/35

In: 273.019+/-0.042 χ^2/NDF : 3595686.3/37

Out: 260.103+/-0.039 χ^2/NDF : 4209118.8/41

All: 266.092+/-0.029 χ^2/NDF : 7854449.1/79

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135216.054+/-0.054

χ^2/NDF : 371419425.6/16

Left Out: 140756.404+/-0.049

χ^2/NDF : 231181536.0/22

Right Out: 135304.602+/-0.051

χ^2/NDF : 357443836.5/18

Left In: 140645.255+/-0.052

χ^2/NDF : 191036754.7/20

Left: 140703.774+/-0.036

χ^2/NDF : 424633921.3/43

Right: 135263.073+/-0.037

χ^2/NDF : 730268475.9/3

In: 138060.347+/-0.038

χ^2/NDF : 5774484017.9/37

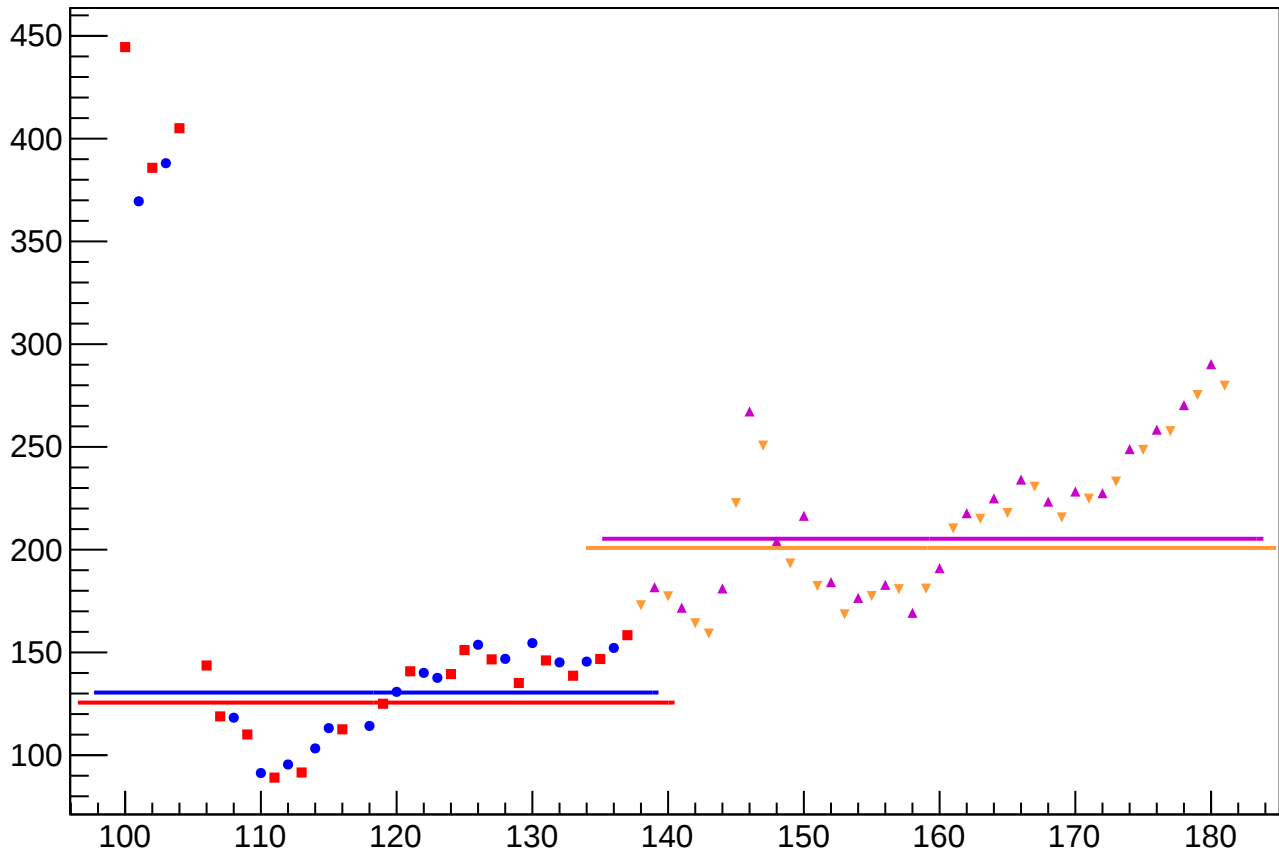
Out: 138136.142+/-0.035

χ^2/NDF : 6487472239.8/4

All: 138100.415+/-0.026

χ^2/NDF : 122641093

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 130.478 $\pm$ 0.038 χ^2 /NDF: 1372969.9/16

Left Out: 200.845 $\pm$ 0.035 χ^2 /NDF: 885966.0/22

Right Out: 125.594 $\pm$ 0.036 χ^2 /NDF: 1434855.8/18

Left In: 205.305 $\pm$ 0.037 χ^2 /NDF: 790261.7/20

Left: 202.957 $\pm$ 0.025 χ^2 /NDF: 1684006.8/43

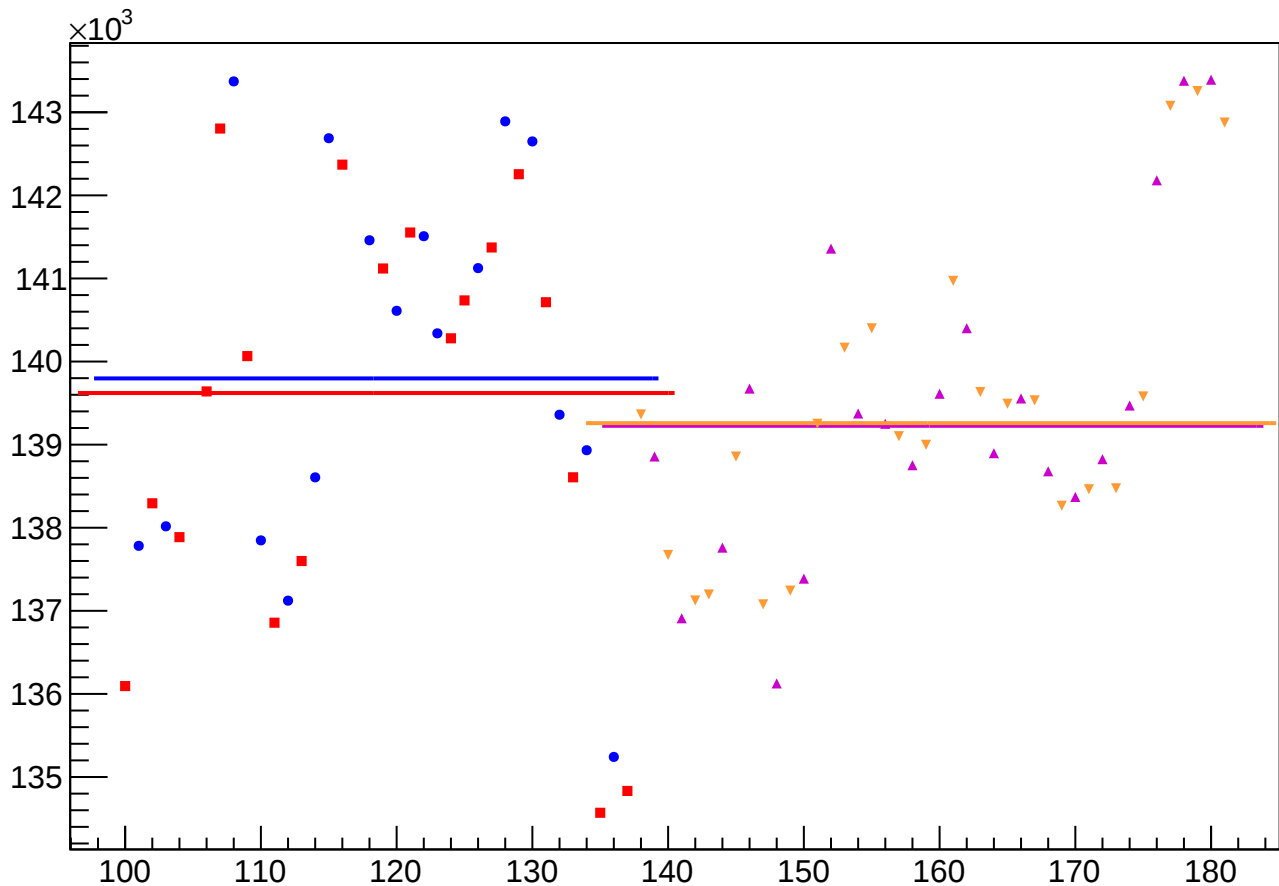
Right: 127.885 $\pm$ 0.026 χ^2 /NDF: 2816373.3/35

In: 169.679 $\pm$ 0.027 χ^2 /NDF: 4143345.3/37

Out: 164.678 $\pm$ 0.025 χ^2 /NDF: 4568536.1/41

All: 167.035 $\pm$ 0.018 χ^2 /NDF: 8730627.1/79

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139796.979 $\pm$ 0.062

χ^2 /NDF: 1668151198.8/16

Left: 139243.347 $\pm$ 0.036

χ^2 /NDF: 2244677038.6/4

Left Out: 139258.762 $\pm$ 0.050

χ^2 /NDF: 1090987821.9/22

Right: 139704.736 $\pm$ 0.043

χ^2 /NDF: 3176880475.6/4

Right Out: 139621.197 $\pm$ 0.059

χ^2 /NDF: 1504518858.4/18

In: 139460.399 $\pm$ 0.040

χ^2 /NDF: 2871479612.9/37

Out: 139409.451 $\pm$ 0.038

χ^2 /NDF: 2617510578.5/4

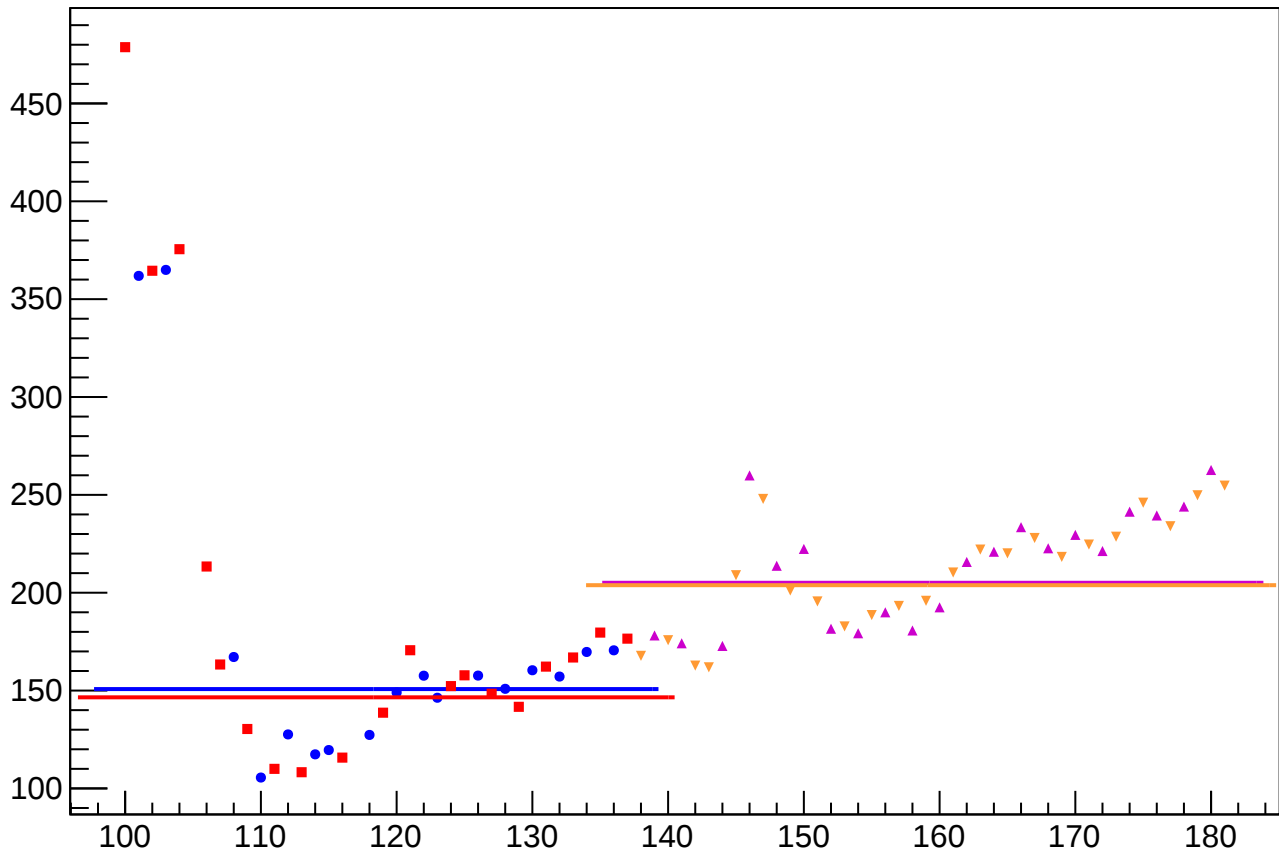
Left In: 139226.743 $\pm$ 0.052

χ^2 /NDF: 1153490350.2/20

All: 139433.849 $\pm$ 0.027

χ^2 /NDF: 54898474.1/10

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 150.766 $\pm$ 0.044 χ^2 /NDF: 1050110.5/16

Left Out: 203.847 $\pm$ 0.035 χ^2 /NDF:599801.3/22

Right Out: 146.546 $\pm$ 0.042 χ^2 /NDF: 1200776.5/18

Left In: 205.076 $\pm$ 0.037 χ^2 /NDF:578698.0/20

Left: 204.439 $\pm$ 0.025 χ^2 /NDF: 1179085.5/43

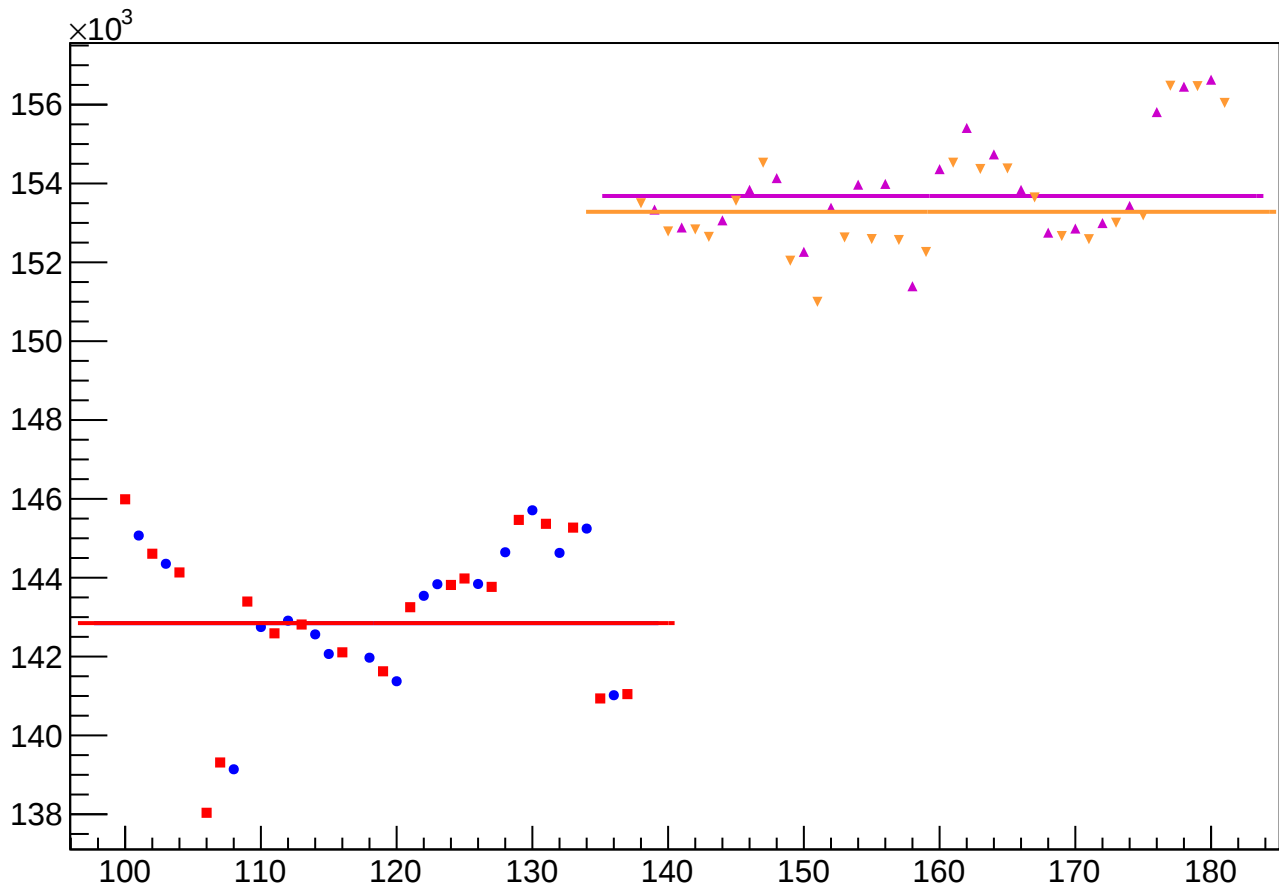
Right: 148.551 $\pm$ 0.030 χ^2 /NDF: 2255741.1/35

In: 182.822 $\pm$ 0.028 χ^2 /NDF:2532955.6/37

Out: 180.023 $\pm$ 0.027 χ^2 /NDF:2900585.1/41

All: 181.363 $\pm$ 0.019 χ^2 /NDF: 5438717.0/79

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142846.769 $\pm$ 0.065

χ^2 /NDF: 735751313.8/16

Left: 153474.617 $\pm$ 0.036

χ^2 /NDF: 1260875143.3/4

Right: 142847.777 $\pm$ 0.044

χ^2 /NDF: 1585493619.2/2

Left Out: 153281.609 $\pm$ 0.050

χ^2 /NDF: 663826850.6/22

Right Out: 142848.653 $\pm$ 0.060

χ^2 /NDF: 849741852.9/18

In: 149403.174 $\pm$ 0.041

χ^2 /NDF: 18229823418.8/3

Out: 149000.321 $\pm$ 0.039

χ^2 /NDF: 19098378581.5/3

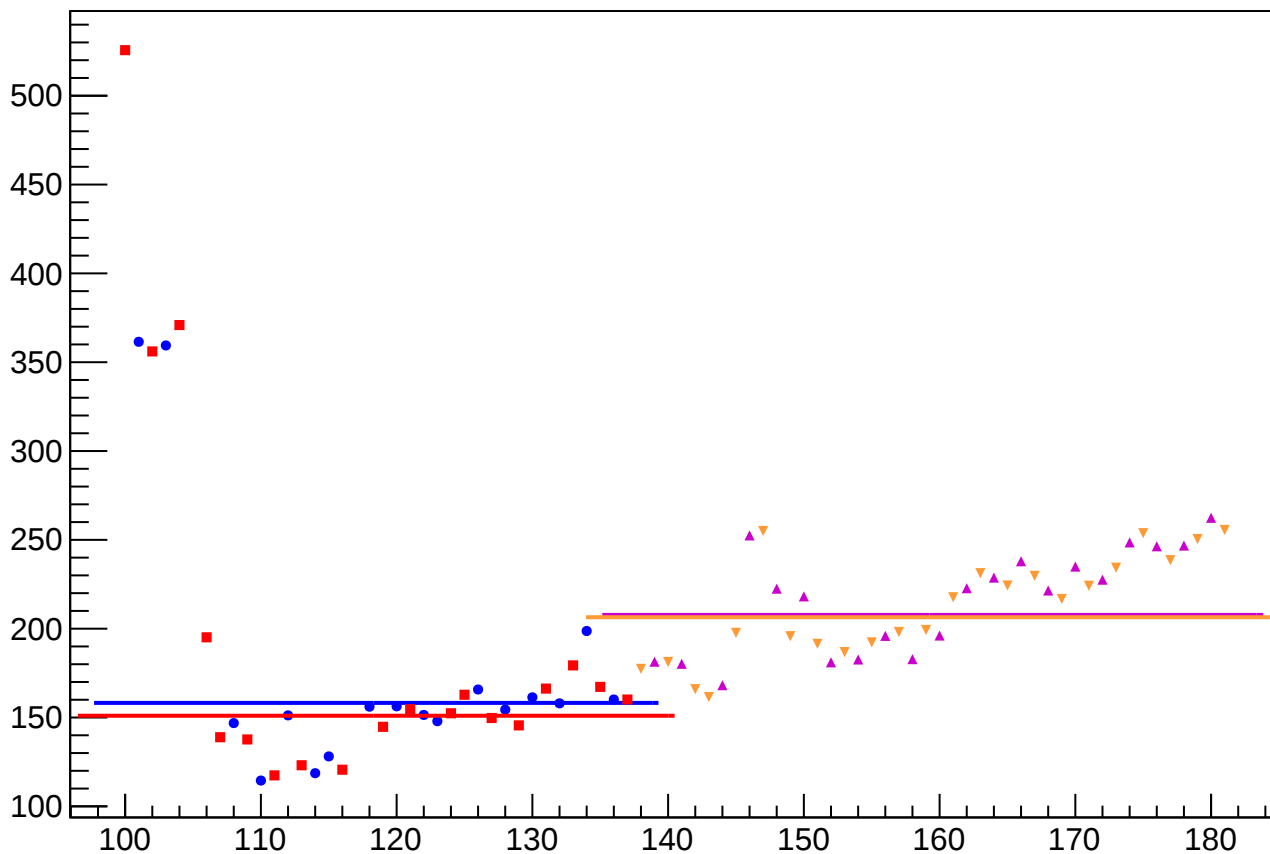
Left In: 153682.784 $\pm$ 0.052

χ^2 /NDF: 566564825.7/20

All: 149191.542 $\pm$ 0.028

χ^2 /NDF: 373796363.3/10

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 158.235+/-0.046 χ^2/NDF : 883619.5/16

Left Out: 206.446+/-0.036 χ^2/NDF : 592304.4/22

Right Out: 150.999+/-0.043 χ^2/NDF : 1000583.6/18

Left In: 207.757+/-0.037 χ^2/NDF : 590246.2/20

Left: 207.077+/-0.026 χ^2/NDF : 1183201.1/43

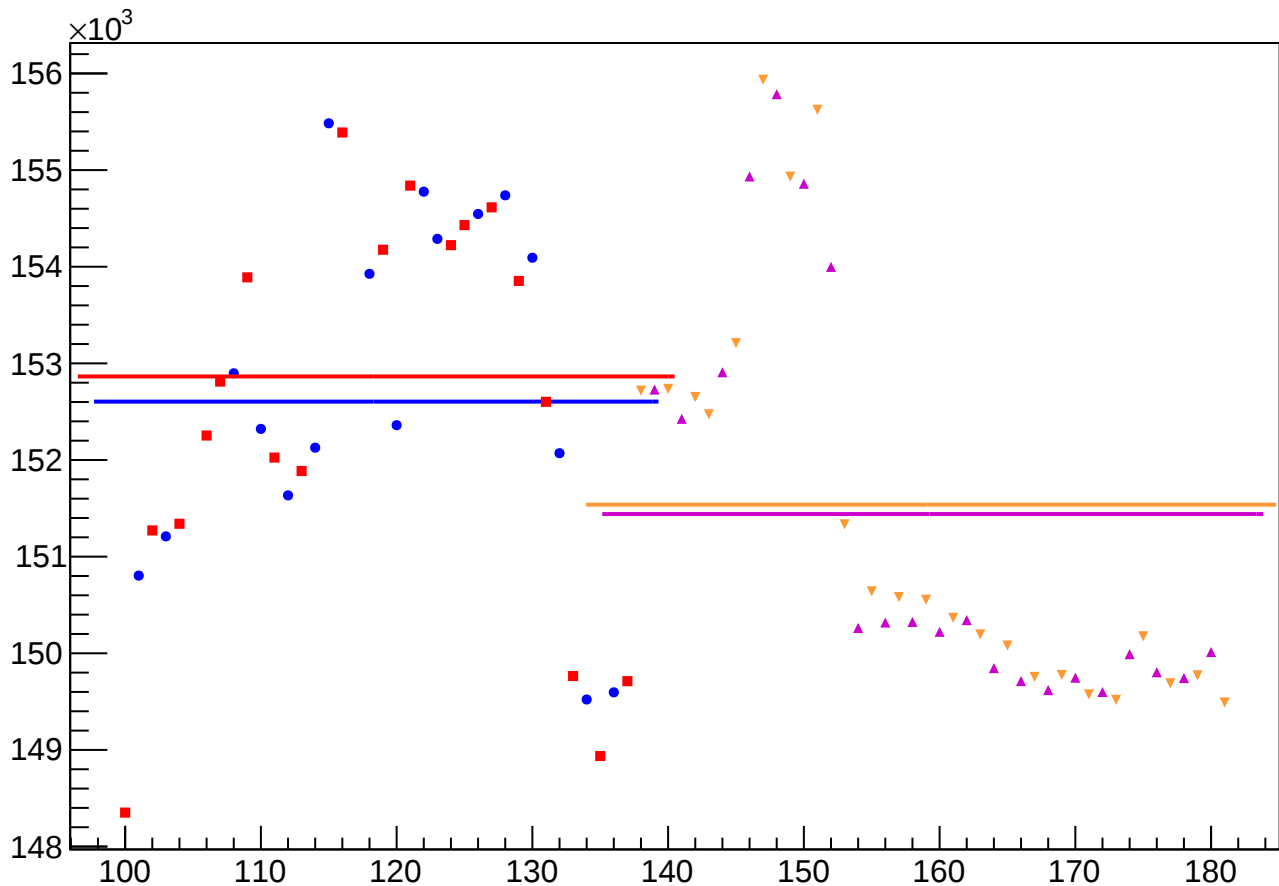
Right: 154.365+/-0.031 χ^2/NDF : 1897545.9/35

In: 188.198+/-0.029 χ^2/NDF : 2180970.4/37

Out: 183.693+/-0.027 χ^2/NDF : 2586254.2/41

All: 185.832+/-0.020 χ^2/NDF : 4780090.5/79

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152604.406 $\pm$ 0.072 χ^2 /NDF: 616818062.6/16

Left Out: 151537.761 $\pm$ 0.050 χ^2 /NDF: 1427954595.0/22

Right Out: 152864.722 $\pm$ 0.066 χ^2 /NDF: 718455566.6/18

Left In: 151440.615 $\pm$ 0.052 χ^2 /NDF: 1359148726.2/20

Left: 151490.968 $\pm$ 0.036 χ^2 /NDF: 2788889178.1/4

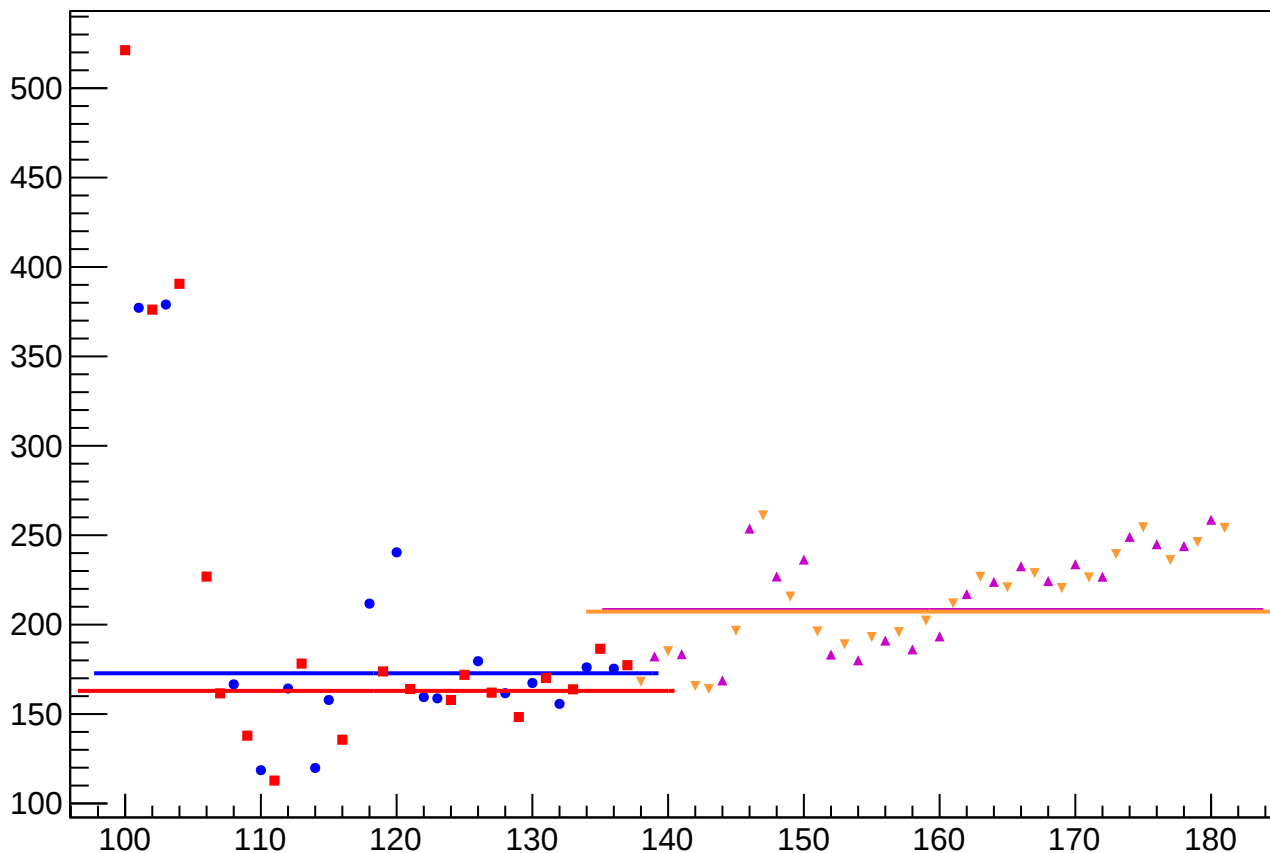
Right: 152745.876 $\pm$ 0.049 χ^2 /NDF: 1342324437.7/3

In: 151840.973 $\pm$ 0.042 χ^2 /NDF: 2146072822.3/3

Out: 152024.937 $\pm$ 0.040 χ^2 /NDF: 2400378224.3/4

All: 151937.973 $\pm$ 0.029 χ^2 /NDF: 455638226.2/2

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.803+/-0.051 χ^2/NDF : 945652.6/16

Left Out: 207.274+/-0.036 χ^2/NDF : 596858.9/22

Right Out: 162.951+/-0.047 χ^2/NDF : 1032146.9/18

Left In: 208.169+/-0.037 χ^2/NDF : 580120.9/20

Left: 207.705+/-0.026 χ^2/NDF : 1177282.7/43

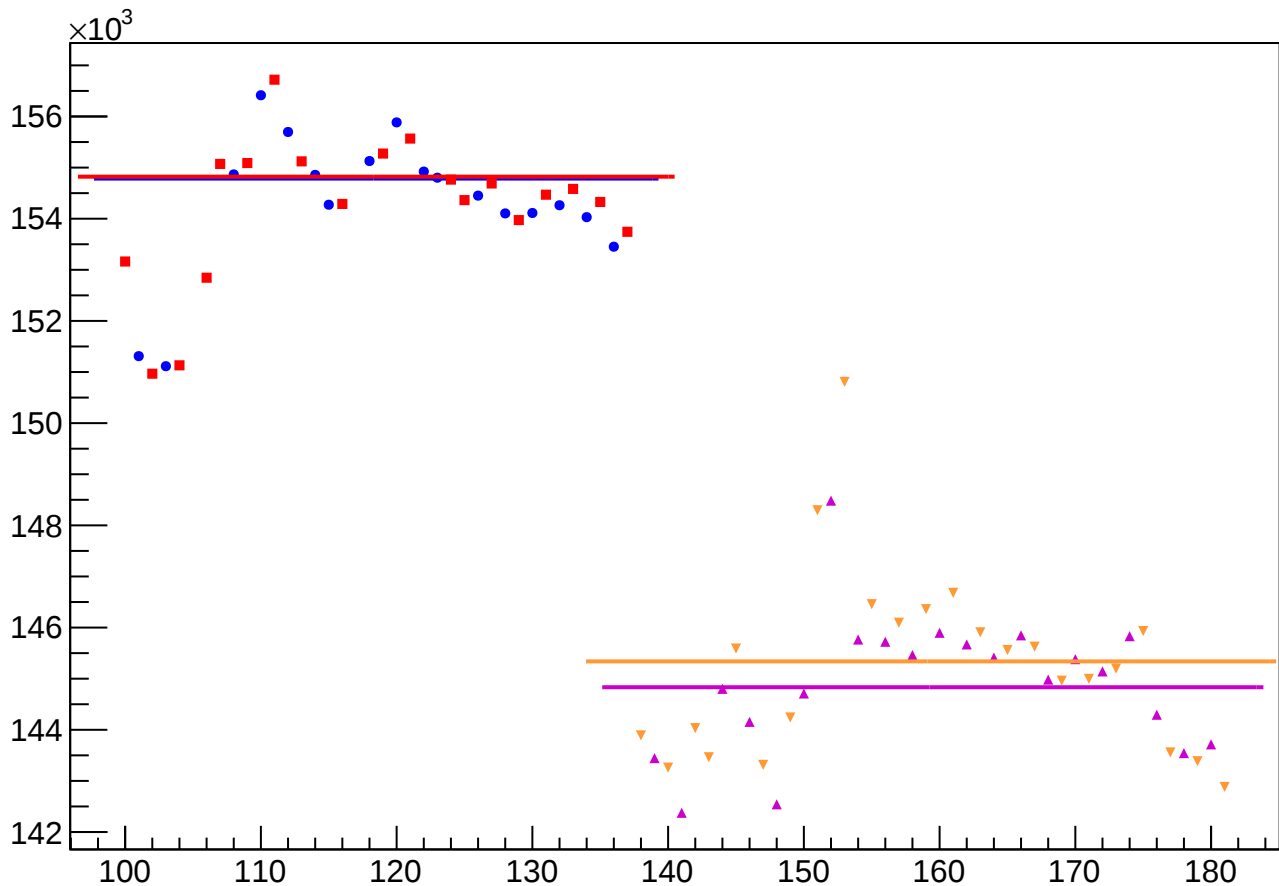
Right: 167.449+/-0.035 χ^2/NDF : 1997996.2/35

In: 196.003+/-0.030 χ^2/NDF : 1839947.0/37

Out: 191.002+/-0.028 χ^2/NDF : 2195698.9/41

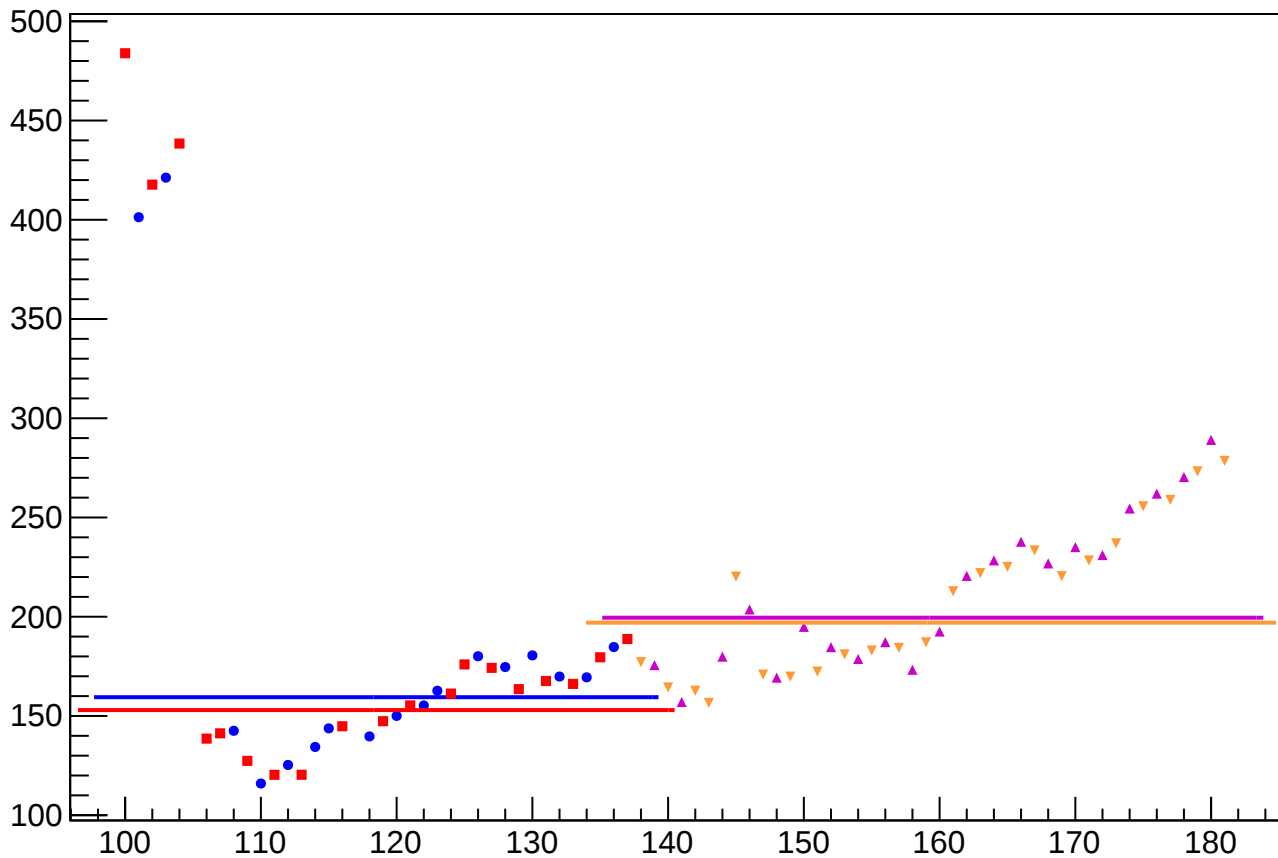
All: 193.366+/-0.021 χ^2/NDF : 4050323.8/79

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154784.970 $\pm$ 0.065	χ^2 /NDF: 265445259.7/16	Left: 145096.625 $\pm$ 0.035	χ^2 /NDF: 2572172142.7/4
Left Out: 145338.389 $\pm$ 0.048	χ^2 /NDF: 1646023673.5/22	Right: 154805.060 $\pm$ 0.045	χ^2 /NDF: 559405704.7/3
Right Out: 154822.442 $\pm$ 0.061	χ^2 /NDF: 293784821.8/18	In: 148526.217 $\pm$ 0.040	χ^2 /NDF: 15669104532.9/3
Left In: 144832.893 $\pm$ 0.050	χ^2 /NDF: 873447137.4/20	Out: 148986.974 $\pm$ 0.038	χ^2 /NDF: 16861924662.5
		All: 148769.119 $\pm$ 0.027	χ^2 /NDF: 326013803

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 159.460 $\pm$ 0.046 χ^2 /NDF: 1131650.0/16

Left Out: 197.025 $\pm$ 0.034 χ^2 /NDF: 973106.3/22

Right Out: 152.961 $\pm$ 0.043 χ^2 /NDF: 1169783.0/18

Left In: 199.502 $\pm$ 0.036 χ^2 /NDF: 875475.8/20

Left: 198.210 $\pm$ 0.025 χ^2 /NDF: 1851112.8/43

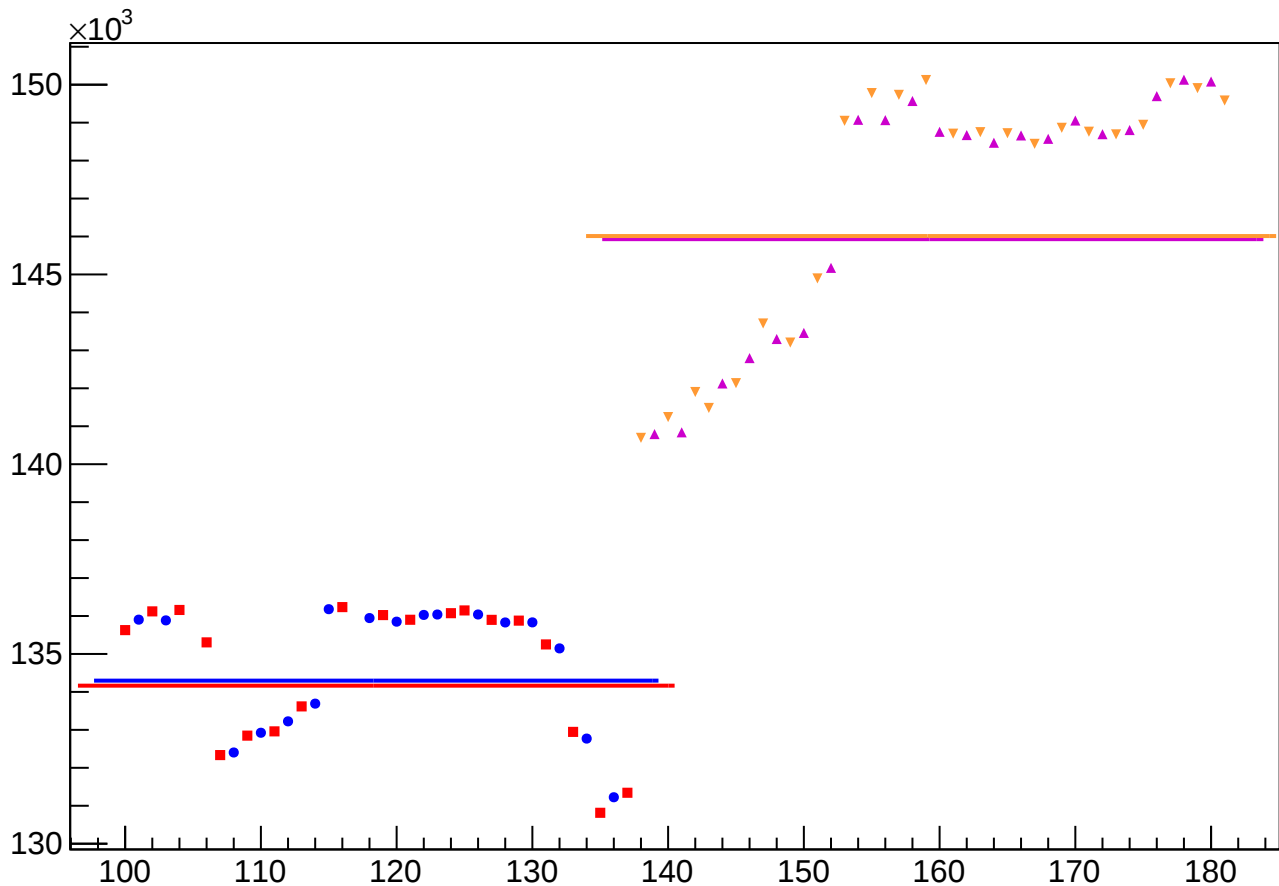
Right: 155.976 $\pm$ 0.032 χ^2 /NDF: 2311995.9/35

In: 184.642 $\pm$ 0.028 χ^2 /NDF: 2477576.4/37

Out: 180.073 $\pm$ 0.027 χ^2 /NDF: 2787112.2/41

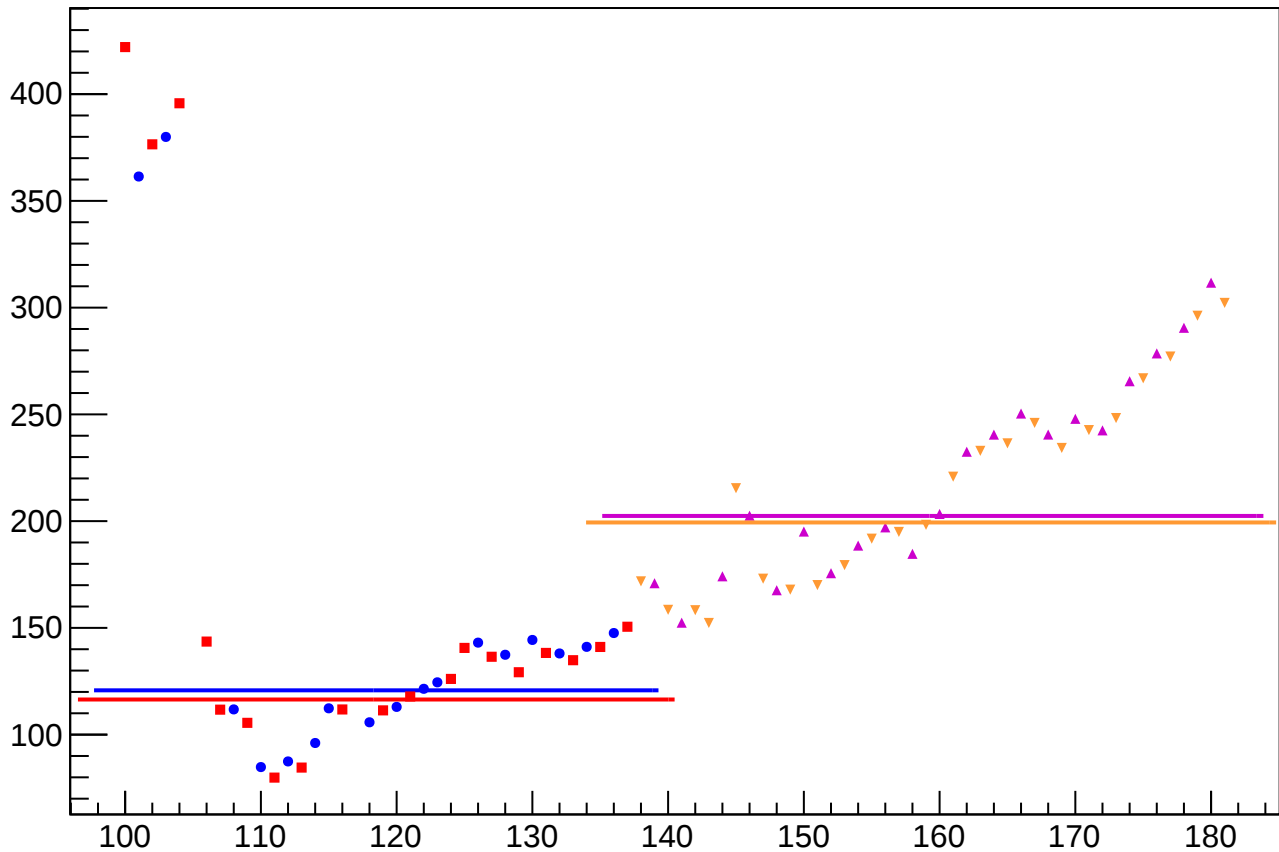
All: 182.233 $\pm$ 0.019 χ^2 /NDF: 5278520.8/79

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134297.022 $\pm$ 0.050	χ^2 /NDF: 1147567257.7/16	Left: 145972.684 $\pm$ 0.035	χ^2 /NDF: 9696093227.8/4
Left Out: 146011.703 $\pm$ 0.049	χ^2 /NDF: 5223576339.5/22	Right: 134226.757 $\pm$ 0.035	χ^2 /NDF: 2361744877.8/3
Right Out: 134164.594 $\pm$ 0.047	χ^2 /NDF: 1210514088.0/18	In: 140008.119 $\pm$ 0.036	χ^2 /NDF: 31775815445.2/3
Left In: 145929.917 $\pm$ 0.051	χ^2 /NDF: 4471188774.7/20	Out: 139889.777 $\pm$ 0.034	χ^2 /NDF: 36619103317.1/3
		All: 139945.770 $\pm$ 0.025	χ^2 /NDF: 684006254.7/10

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.752 +/- 0.036 χ^2/NDF : 1465247.5/16

Left Out: 199.379 +/- 0.035 χ^2/NDF : 1347203.8/22

Right Out: 116.453 +/- 0.034 χ^2/NDF : 1535612.1/18

Left In: 202.433 +/- 0.036 χ^2/NDF : 1185640.8/20

Left: 200.836 +/- 0.025 χ^2/NDF : 2536549.3/43

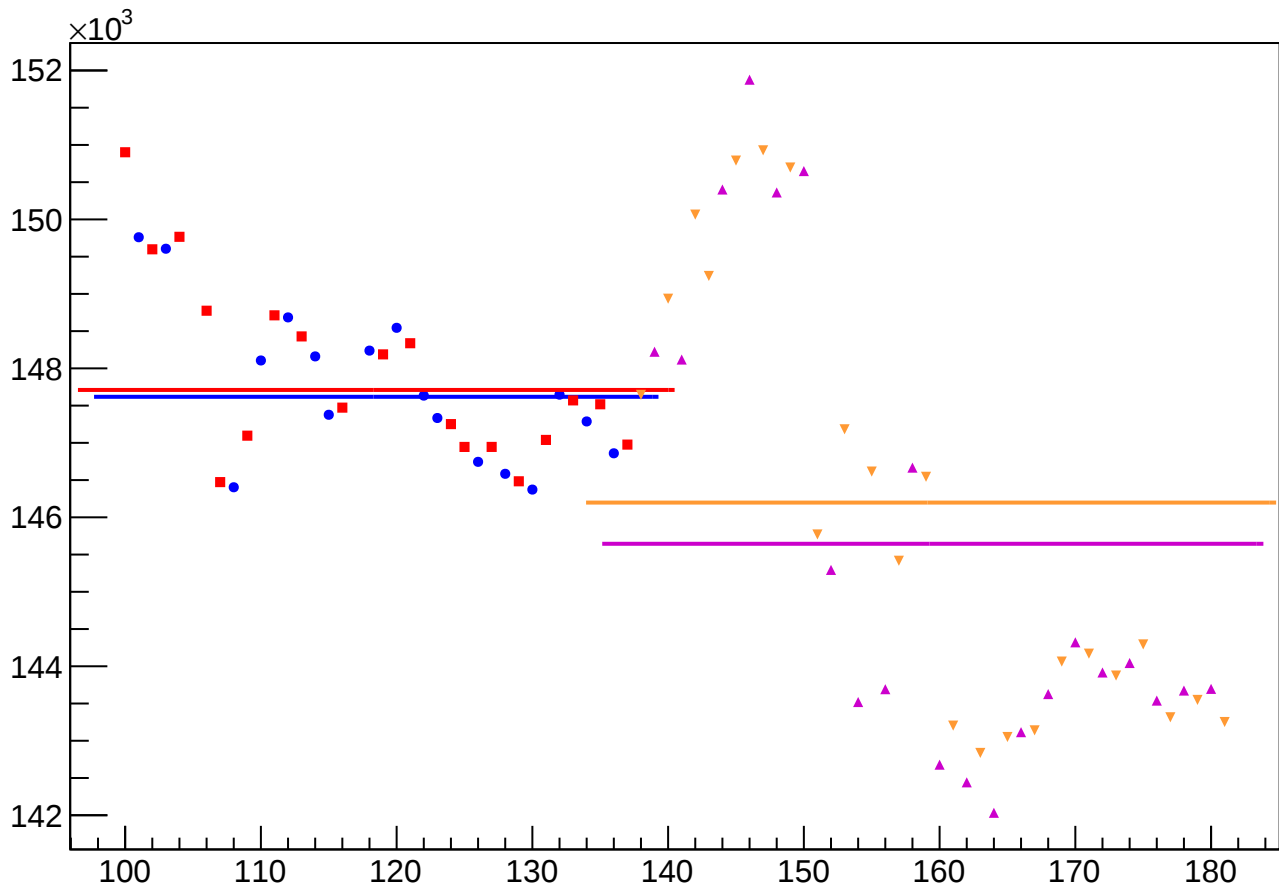
Right: 118.471 +/- 0.024 χ^2/NDF : 3008583.2/35

In: 160.853 +/- 0.025 χ^2/NDF : 5230102.6/37

Out: 156.527 +/- 0.024 χ^2/NDF : 5840707.9/41

All: 158.574 +/- 0.017 χ^2/NDF : 11086060.3/79

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147618.243 $\pm$ 0.063

χ^2/NDF : 198581777.1/16

Left Out: 146198.057 $\pm$ 0.052

χ^2/NDF : 2589804200.8/22

Right Out: 147710.334 $\pm$ 0.058

χ^2/NDF : 203714451.2/18

Left In: 145644.744 $\pm$ 0.054

χ^2/NDF : 2982033600.7/20

Left: 145932.938 $\pm$ 0.037

χ^2/NDF : 5626633169.3/4

Right: 147667.515 $\pm$ 0.043

χ^2/NDF : 403454683.7/3

In: 146485.980 $\pm$ 0.041

χ^2/NDF : 3751098644.1/37

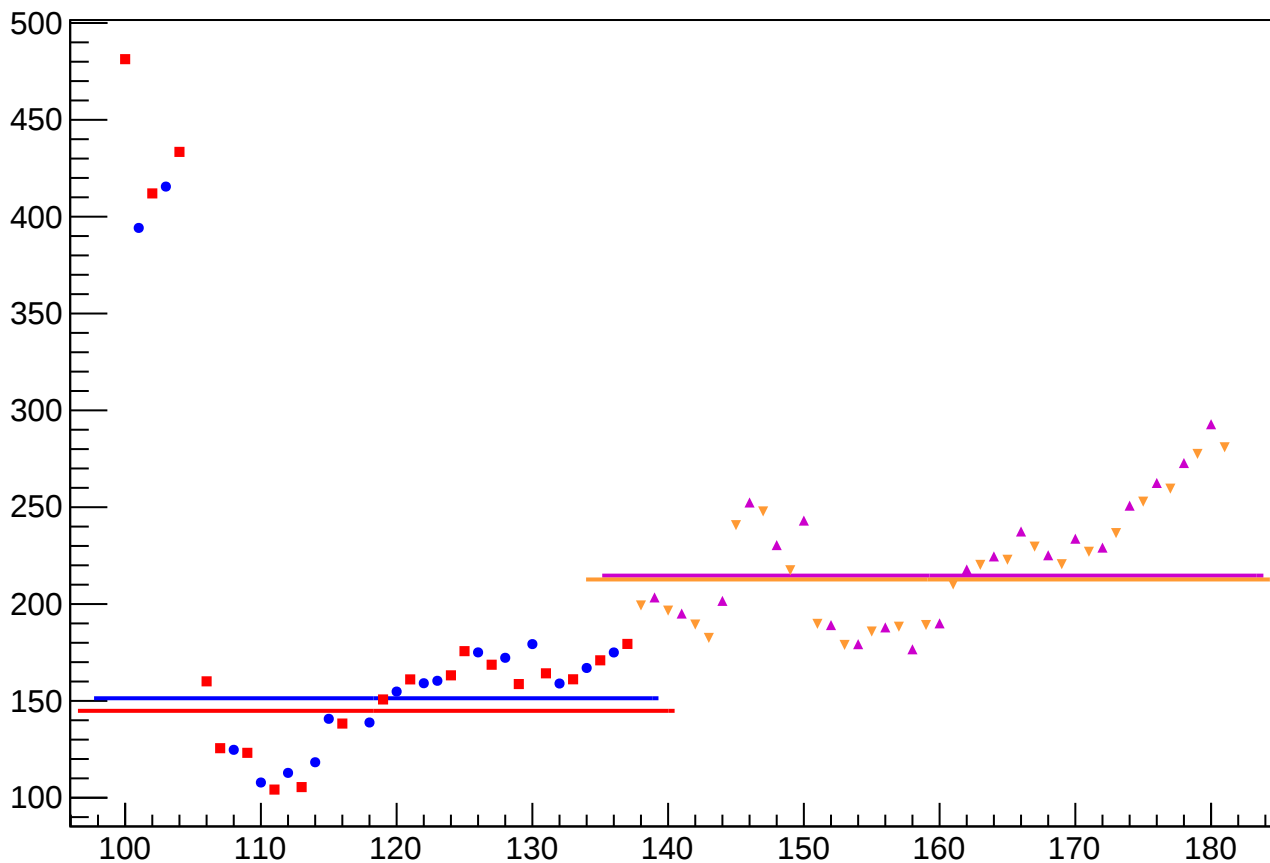
Out: 146863.831 $\pm$ 0.039

χ^2/NDF : 3169607072.5/4

All: 146685.109 $\pm$ 0.028

χ^2/NDF : 696576993.7/10

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.363+/-0.044 χ^2/NDF : 1259788.8/16

Left Out: 212.690+/-0.037 χ^2/NDF : 589887.6/22

Right Out: 144.870+/-0.041 χ^2/NDF : 1371292.3/18

Left In: 214.679+/-0.038 χ^2/NDF : 629059.6/20

Left: 213.643+/-0.026 χ^2/NDF : 1220362.8/43

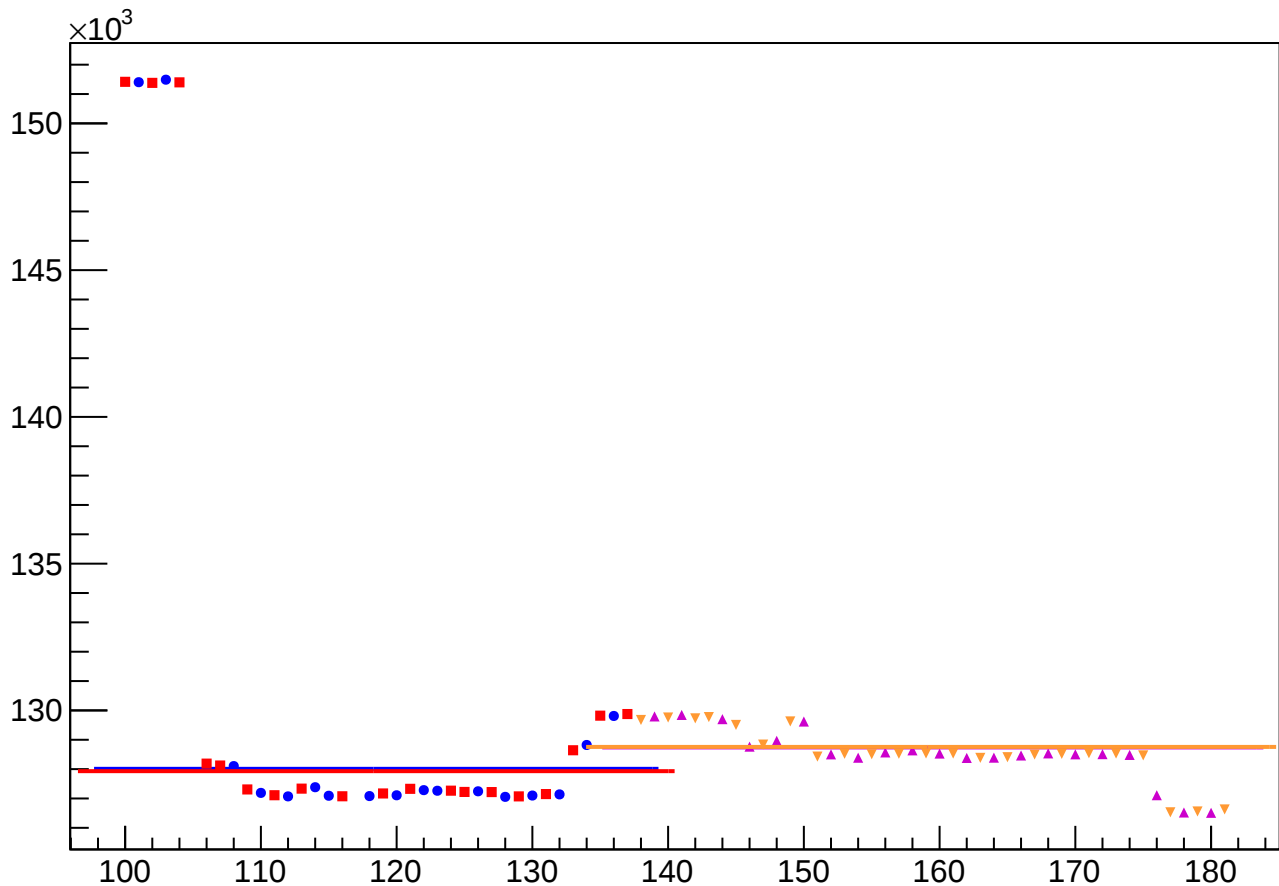
Right: 147.889+/-0.030 χ^2/NDF : 2642598.4/35

In: 187.689+/-0.029 χ^2/NDF : 3063275.3/37

Out: 182.832+/-0.027 χ^2/NDF : 3473962.7/41

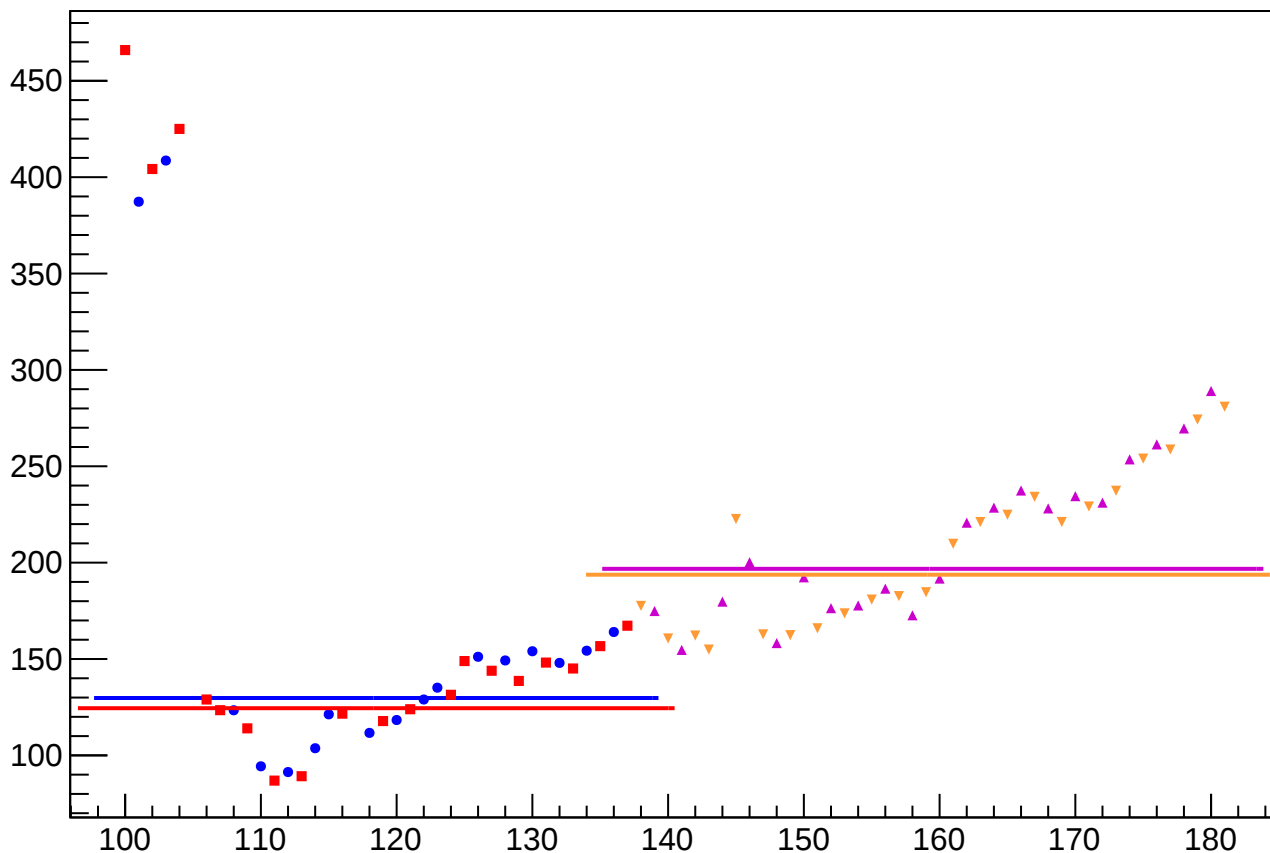
All: 185.130+/-0.020 χ^2/NDF : 6552128.5/79

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128009.906 $\pm$ 0.054 χ^2 /NDF: 4319099803.8/16
 Left Out: 128756.684 $\pm$ 0.047 χ^2 /NDF: 296125738.8/22
 Right Out: 127930.465 $\pm$ 0.050 χ^2 /NDF: 3768075163.1/18
 Left In: 128738.910 $\pm$ 0.050 χ^2 /NDF: 258510241.3/20
 Left: 128748.214 $\pm$ 0.034 χ^2 /NDF: 554702942.6/43
 Right: 127967.286 $\pm$ 0.037 χ^2 /NDF: 8088326902.9/16
 In: 128406.052 $\pm$ 0.037 χ^2 /NDF: 4675866125.7/37
 Out: 128368.692 $\pm$ 0.035 χ^2 /NDF: 4206785686.3/43
 All: 128386.270 $\pm$ 0.025 χ^2 /NDF: 888320252.6/16

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.769 ± 0.038 $\chi^2/\text{NDF}: 1483741.9/16$

Left Out: 193.741 ± 0.034 $\chi^2/\text{NDF}: 1110944.4/22$

Right Out: 124.477 ± 0.036 $\chi^2/\text{NDF}: 1526276.6/18$

Left In: 196.793 ± 0.035 $\chi^2/\text{NDF}: 967651.2/20$

Left: 195.196 ± 0.024 $\chi^2/\text{NDF}: 2082544.1/43$

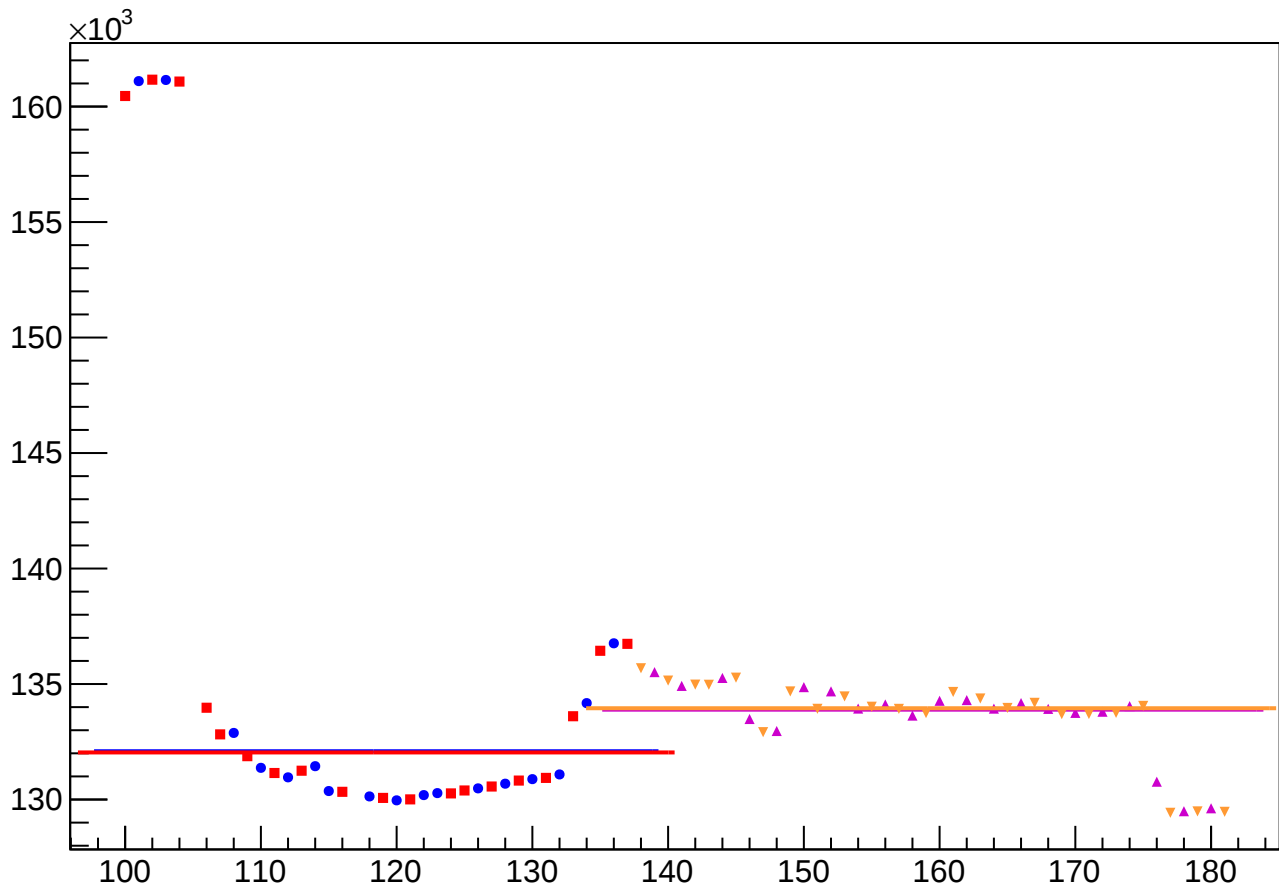
Right: 126.930 ± 0.026 $\chi^2/\text{NDF}: 3020240.6/35$

In: 166.190 ± 0.026 $\chi^2/\text{NDF}: 4112475.8/37$

Out: 161.215 ± 0.024 $\chi^2/\text{NDF}: 4641345.0/41$

All: 163.556 ± 0.018 $\chi^2/\text{NDF}: 8773355.3/79$

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 132090.159+/-0.057

χ^2/NDF : 6731961368.4/16

Left: 133922.361+/-0.035

χ^2/NDF : 1574540390.0/4

Left Out: 133951.723+/-0.049

χ^2/NDF : 875128260.2/22

Right: 132062.178+/-0.039

χ^2/NDF : 12614215233.0/4

Right Out: 132038.077+/-0.053

χ^2/NDF : 5881799125.4/18

In: 133078.988+/-0.038

χ^2/NDF : 7986028831.5/37

Out: 133061.698+/-0.036

χ^2/NDF : 7466591028.8/4

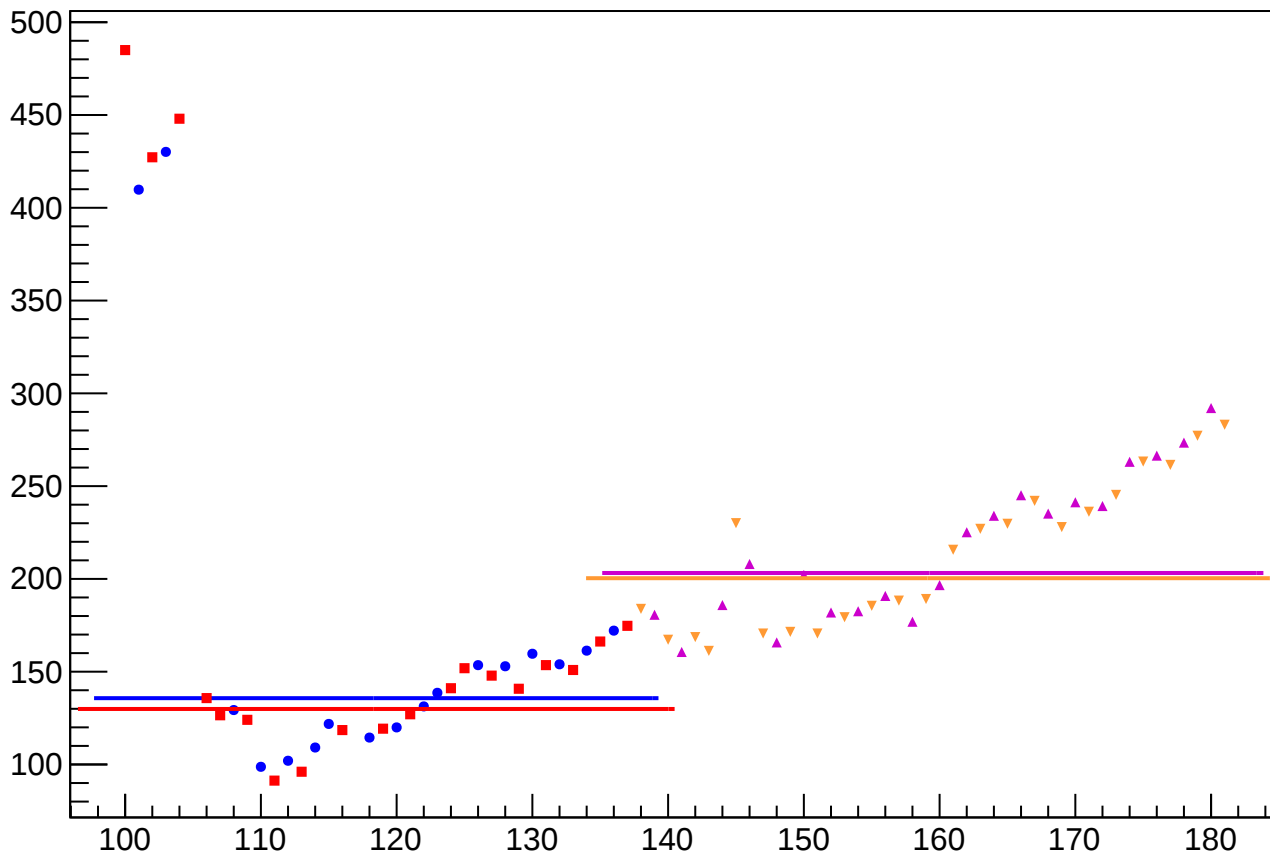
Left In: 133890.196+/-0.051

χ^2/NDF : 698659389.4/20

All: 133069.835+/-0.026

χ^2/NDF : 154527294.0/4

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 135.730 $\pm$ 0.040 χ^2/NDF : 1442560.7/16

Left Out: 200.381 $\pm$ 0.035 χ^2/NDF :1030272.8/22

Right Out: 129.912 $\pm$ 0.037 χ^2/NDF : 1498757.6/18

Left In: 203.191 $\pm$ 0.036 χ^2/NDF :917333.6/20

Left: 201.722 $\pm$ 0.025 χ^2/NDF : 1950746.5/43

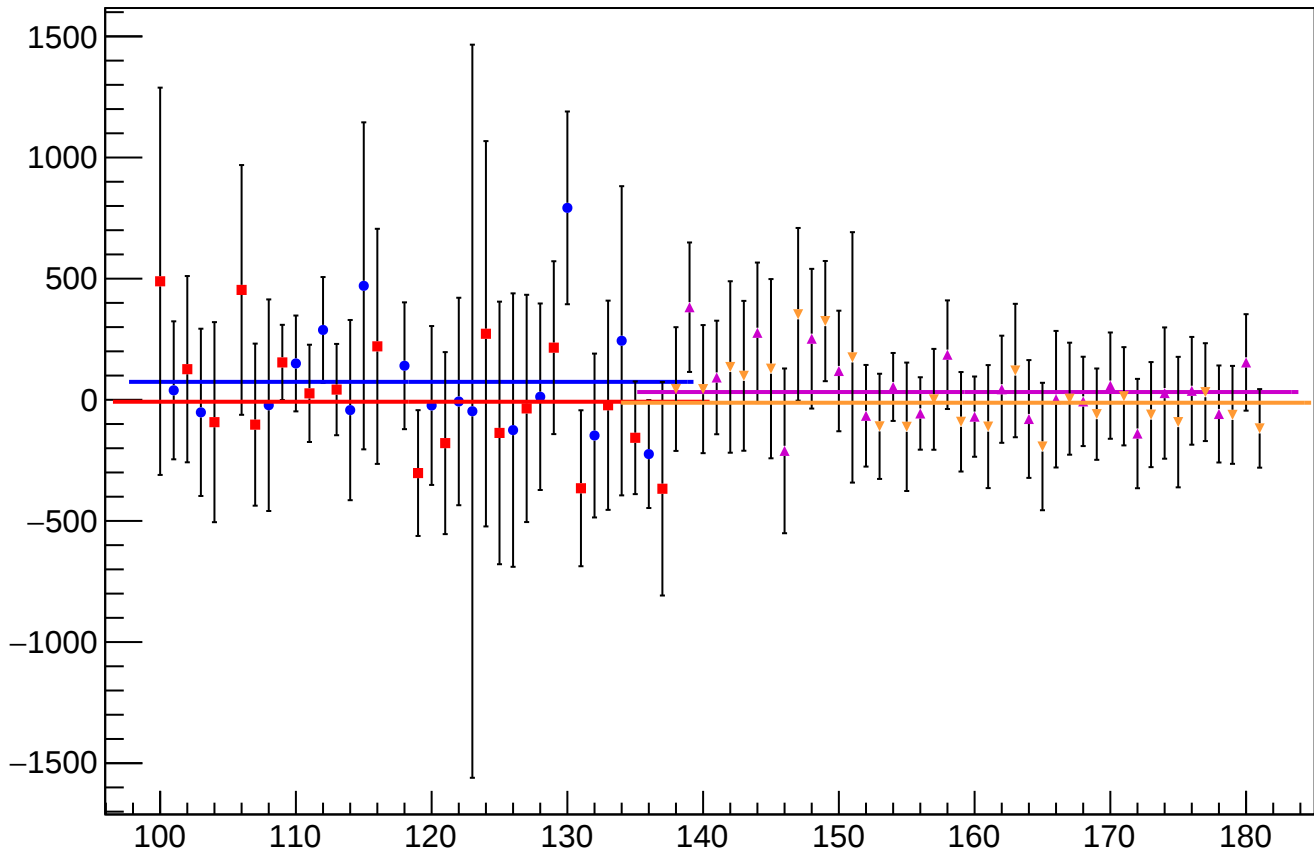
Right: 132.605 $\pm$ 0.027 χ^2/NDF : 2952668.5/35

In: 172.789 $\pm$ 0.027 χ^2/NDF :3920103.1/37

Out: 167.607 $\pm$ 0.025 χ^2/NDF :4453703.1/41

All: 170.045 $\pm$ 0.018 χ^2/NDF : 8393498.2/79

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 74.036 $\pm$ 79.233 χ^2/NDF : 7.6/16

Left Out: -12.168 $\pm$ 49.881 χ^2/NDF : 5.7/22

Right Out: -8.046 $\pm$ 70.080 χ^2/NDF : 7.2/18

Left In: 32.033 $\pm$ 46.657 χ^2/NDF : 6.6/20

Left: 11.407 $\pm$ 34.074 χ^2/NDF : 12.7/43

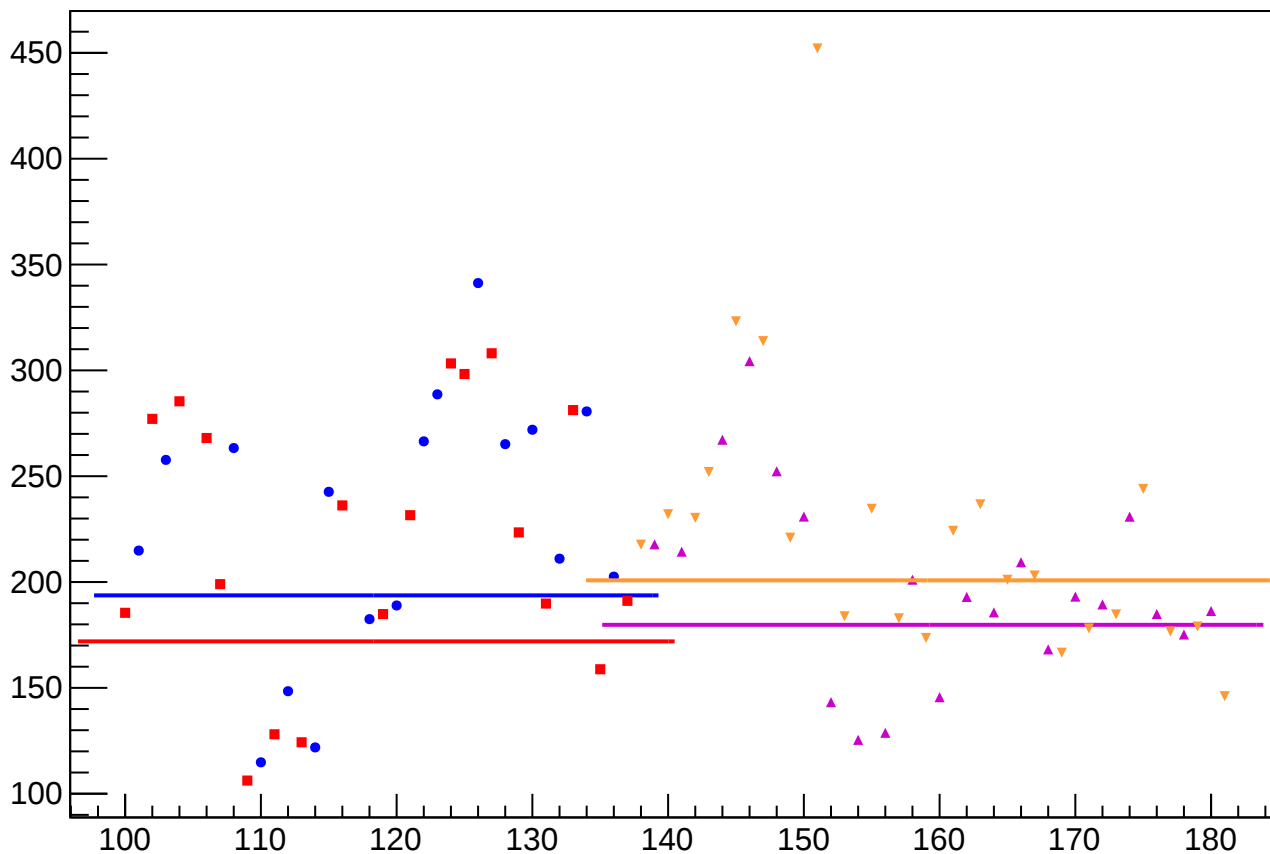
Right: 27.982 $\pm$ 52.493 χ^2/NDF : 15.5/35

In: 42.848 $\pm$ 40.204 χ^2/NDF : 14.4/37

Out: -10.782 $\pm$ 40.638 χ^2/NDF : 12.9/41

All: 16.321 $\pm$ 28.581 χ^2/NDF : 28.2/79

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.695 $\pm$ 0.056 χ^2 /NDF: 1018039.6/16

Left Out: 200.807 $\pm$ 0.035 χ^2 /NDF: 1590334.3/22

Right Out: 171.963 $\pm$ 0.050 χ^2 /NDF: 1574387.3/18

Left In: 179.785 $\pm$ 0.033 χ^2 /NDF: 1567410.7/20

Left: 189.595 $\pm$ 0.024 χ^2 /NDF: 3347223.4/43

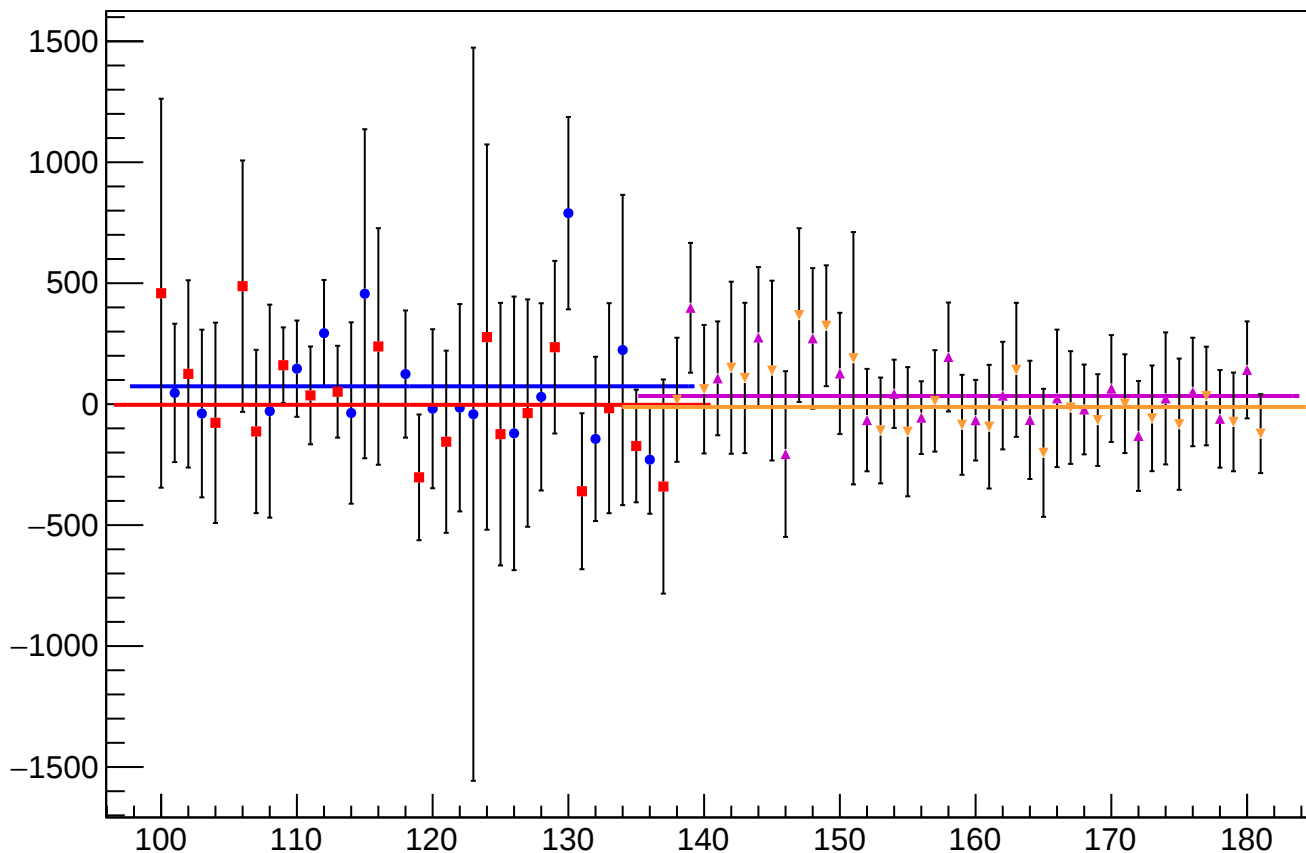
Right: 181.502 $\pm$ 0.037 χ^2 /NDF: 2676847.4/35

In: 183.366 $\pm$ 0.028 χ^2 /NDF: 2631224.1/37

Out: 191.108 $\pm$ 0.029 χ^2 /NDF: 3389608.5/41

All: 187.196 $\pm$ 0.020 χ^2 /NDF: 6057514.8/79

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 73.822 $\pm$ 79.620 χ^2/NDF : 7.5/16

Left Out: -11.865 $\pm$ 50.229 χ^2/NDF : 5.9/22

Right Out: -2.721 $\pm$ 70.450 χ^2/NDF : 7.4/18

Left In: 33.738 $\pm$ 46.961 χ^2/NDF : 6.7/20

Left: 12.468 $\pm$ 34.303 χ^2/NDF : 13.0/43

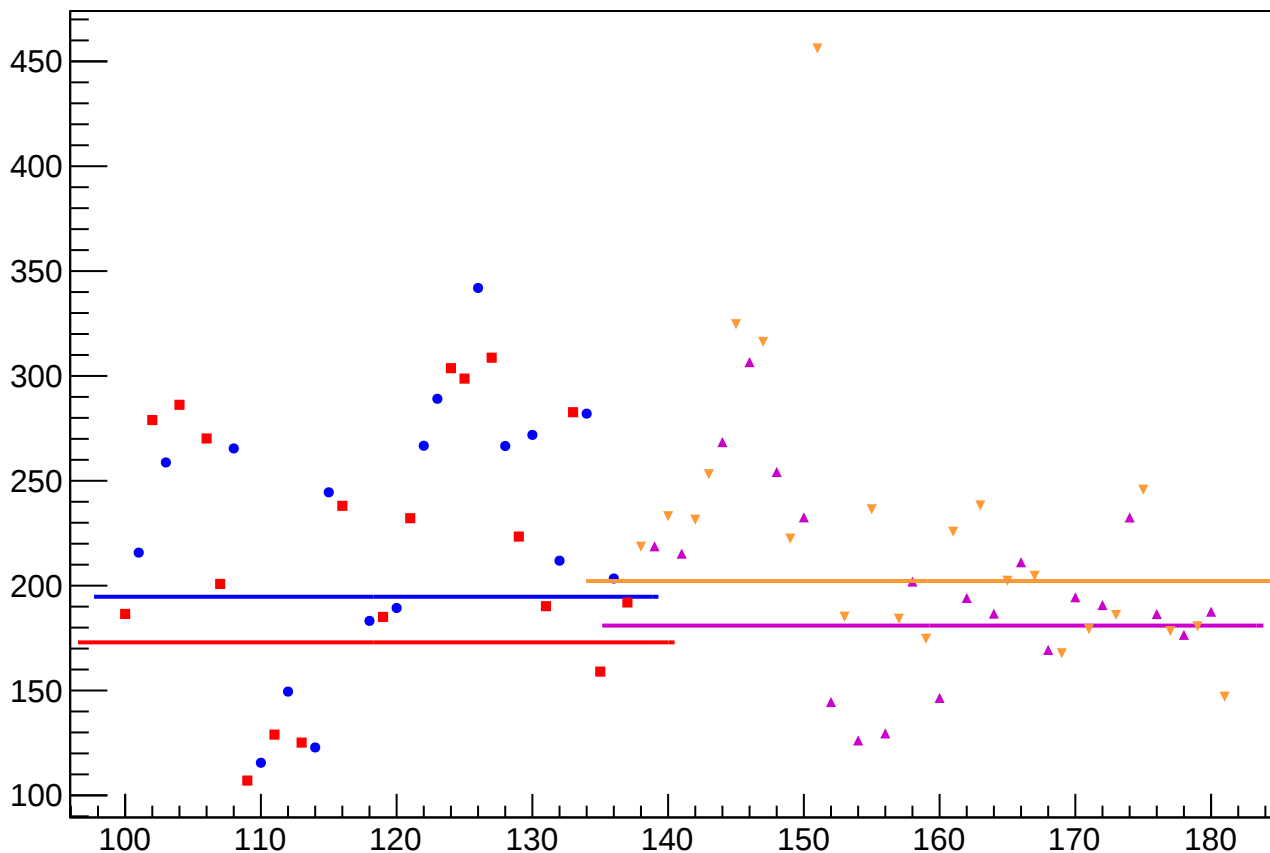
Right: 30.891 $\pm$ 52.761 χ^2/NDF : 15.5/35

In: 44.083 $\pm$ 40.449 χ^2/NDF : 14.4/37

Out: -8.783 $\pm$ 40.898 χ^2/NDF : 13.3/41

All: 17.942 $\pm$ 28.759 χ^2/NDF : 28.6/79

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.704 $\pm$ 0.056 χ^2 /NDF: 1009606.0/16

Left Out: 202.213 $\pm$ 0.036 χ^2 /NDF: 1586399.9/22

Right Out: 172.953 $\pm$ 0.050 χ^2 /NDF: 1562179.1/18

Left In: 180.952 $\pm$ 0.033 χ^2 /NDF: 1566828.2/20

Left: 190.868 $\pm$ 0.024 χ^2 /NDF: 3344446.6/43

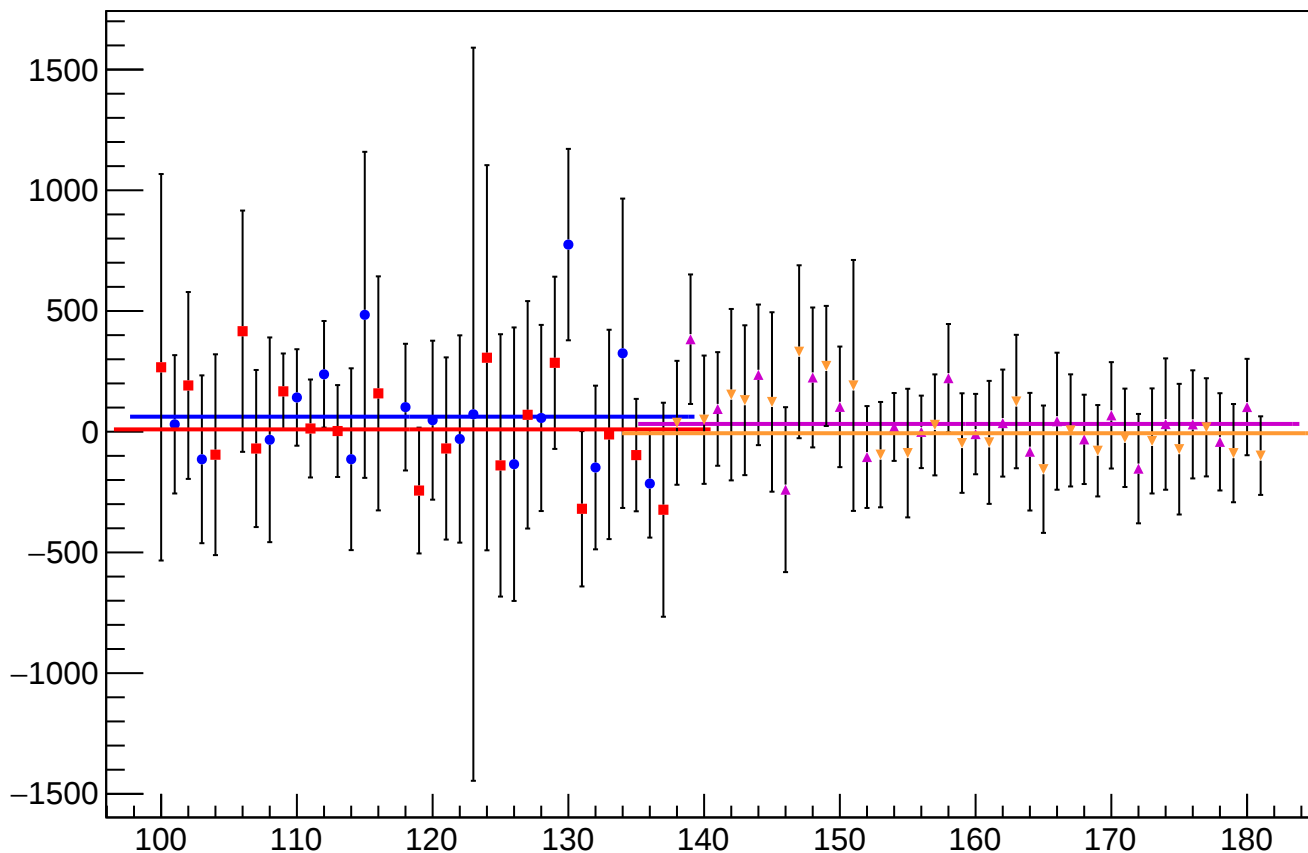
Right: 182.505 $\pm$ 0.037 χ^2 /NDF: 2655502.8/35

In: 184.501 $\pm$ 0.029 χ^2 /NDF: 2620704.7/37

Out: 192.352 $\pm$ 0.029 χ^2 /NDF: 3377310.2/41

All: 188.383 $\pm$ 0.020 χ^2 /NDF: 6035273.8/79

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 62.284 $\pm$ 79.616 χ^2 /NDF: 7.2/16

Left Out: -6.260 $\pm$ 50.104 χ^2 /NDF:4.5/22

Right Out: 9.662 $\pm$ 70.372 χ^2 /NDF: 5.9/18

Left In: 32.216 $\pm$ 46.839 χ^2 /NDF:6.0/20

Left: 14.273 $\pm$ 34.216 χ^2 /NDF: 10.8/43

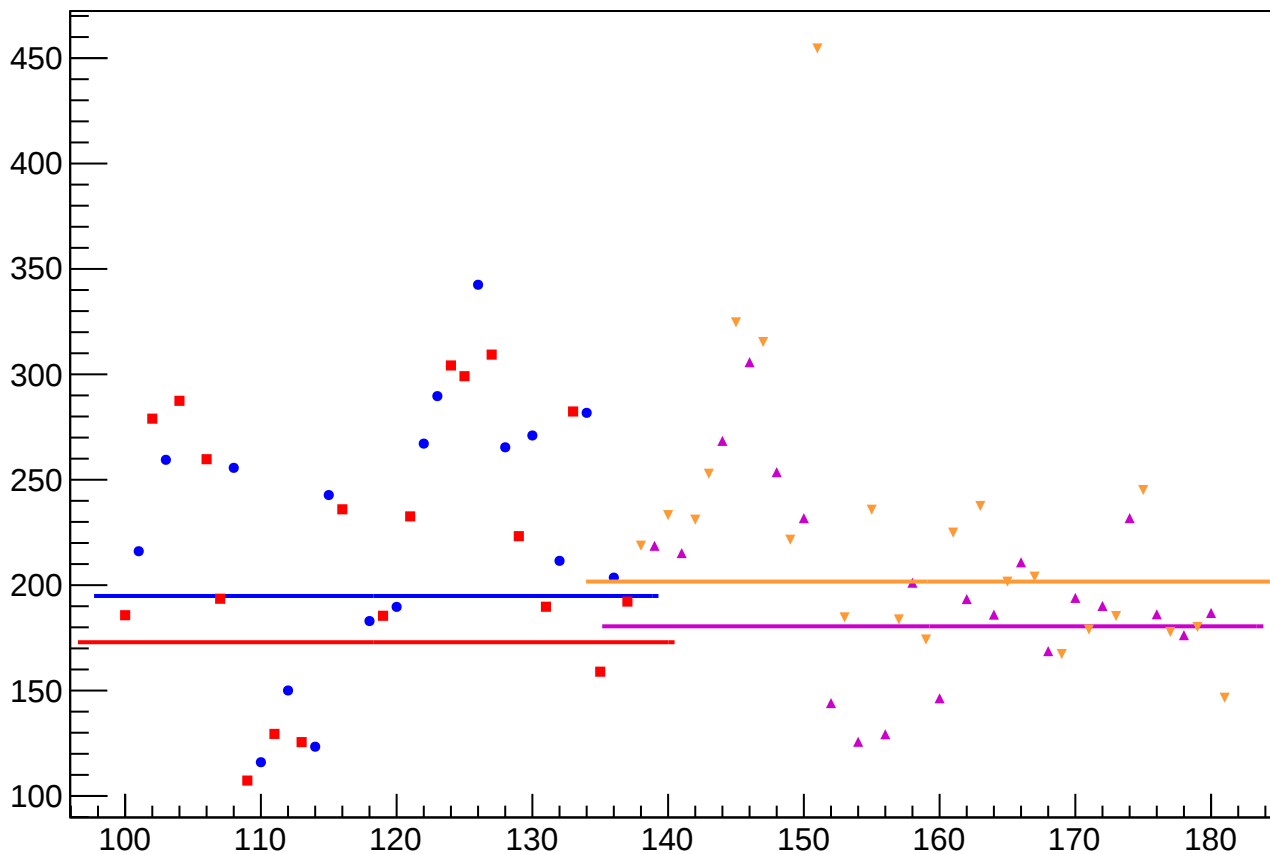
Right: 32.742 $\pm$ 52.727 χ^2 /NDF: 13.3/35

In: 39.947 $\pm$ 40.371 χ^2 /NDF:13.3/37

Out: -0.904 $\pm$ 40.816 χ^2 /NDF:10.4/41

All: 19.746 $\pm$ 28.702 χ^2 /NDF: 24.2/79

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.868 ± 0.056 $\chi^2/\text{NDF}: 987545.2/16$

Left Out: 201.701 ± 0.035 $\chi^2/\text{NDF}: 1590046.8/22$

Right Out: 172.928 ± 0.050 $\chi^2/\text{NDF}: 1539123.2/18$

Left In: 180.475 ± 0.033 $\chi^2/\text{NDF}: 1570076.6/20$

Left: 190.374 ± 0.024 $\chi^2/\text{NDF}: 3351653.8/43$

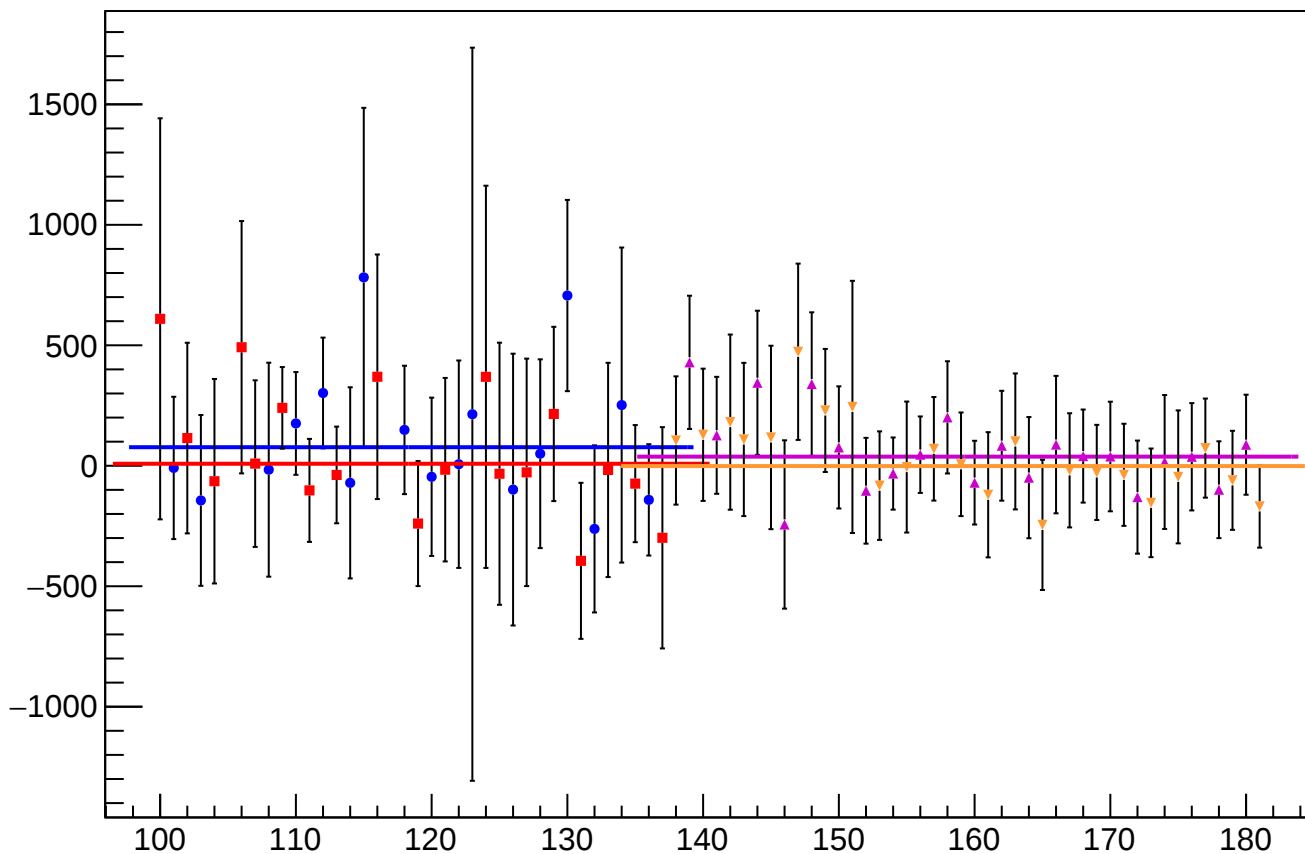
Right: 182.551 ± 0.037 $\chi^2/\text{NDF}: 2611939.6/35$

In: 184.176 ± 0.029 $\chi^2/\text{NDF}: 2606177.7/37$

Out: 192.021 ± 0.029 $\chi^2/\text{NDF}: 3351046.2/41$

All: 188.056 ± 0.020 $\chi^2/\text{NDF}: 5994574.4/79$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 77.030+/-82.098 χ^2/NDF : 7.6/16

Left Out: -1.264+/-51.589 χ^2/NDF : 6.7/22

Right Out: 8.365+/-73.326 χ^2/NDF : 7.8/18

Left In: 37.881+/-48.473 χ^2/NDF : 7.6/20

Left: 19.527+/-35.326 χ^2/NDF : 14.6/43

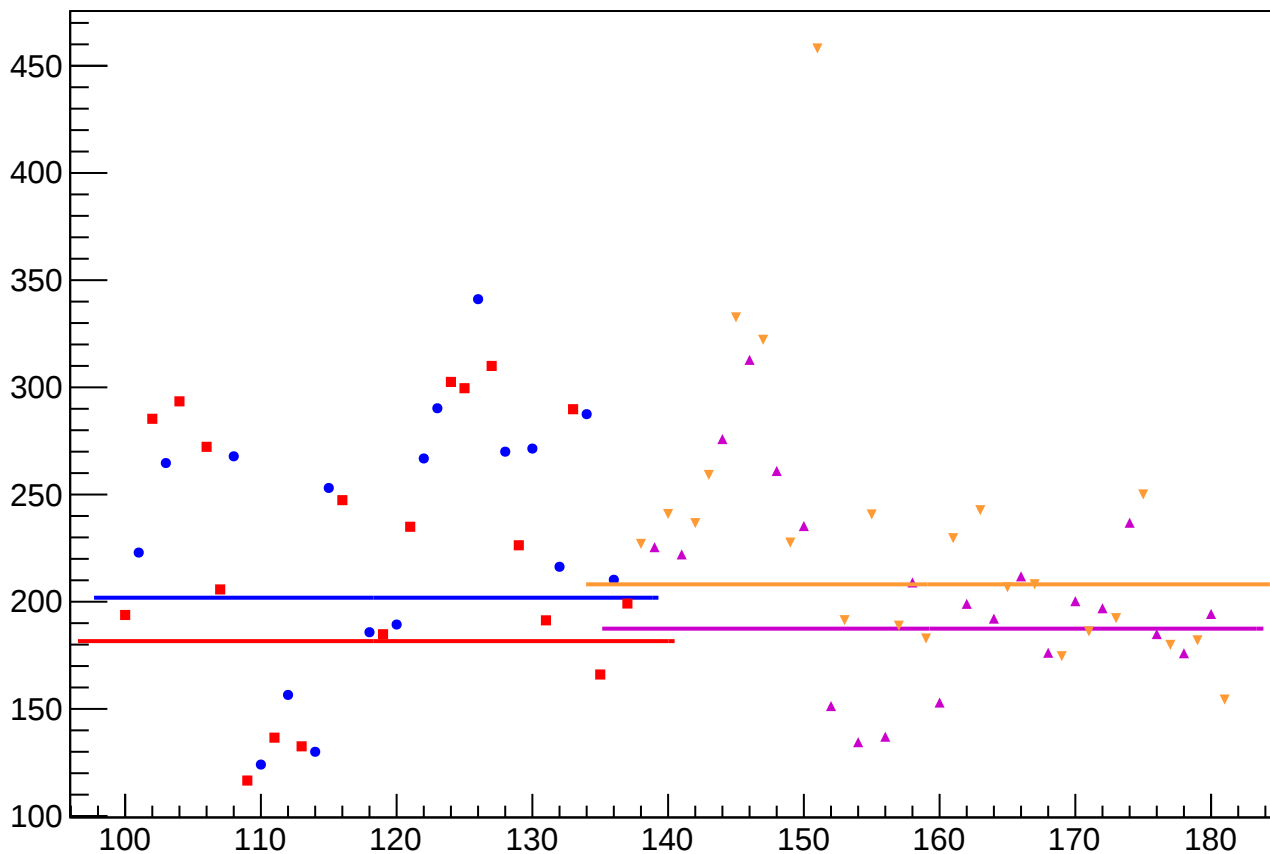
Right: 38.834+/-54.689 χ^2/NDF : 15.8/35

In: 48.001+/-41.740 χ^2/NDF : 15.4/37

Out: 1.924+/-42.193 χ^2/NDF : 14.4/41

All: 25.211+/-29.674 χ^2/NDF : 30.5/79

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 201.873+/-0.058 χ^2/NDF : 884412.3/16

Left Out: 208.117+/-0.036 χ^2/NDF :1508169.8/22

Right Out: 181.626+/-0.052 χ^2/NDF : 1373392.9/18

Left In: 187.441+/-0.034 χ^2/NDF :1415260.5/20

Left: 197.136+/-0.025 χ^2/NDF : 3094063.9/43

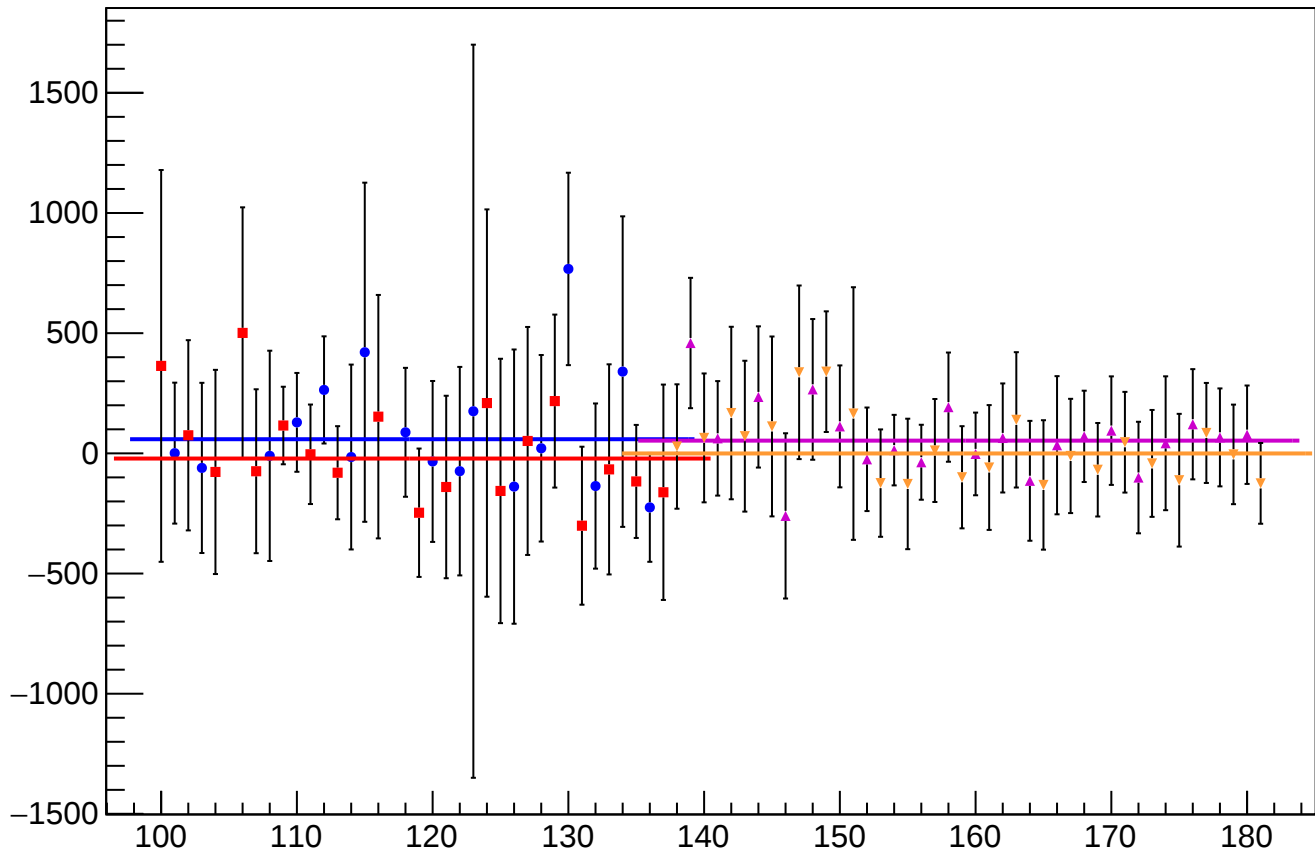
Right: 190.610+/-0.039 χ^2/NDF : 2325469.6/35

In: 191.171+/-0.030 χ^2/NDF :2345501.6/37

Out: 199.346+/-0.030 χ^2/NDF :3056181.2/41

All: 195.215+/-0.021 χ^2/NDF : 5439625.5/79

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 58.835+/-81.036 χ^2/NDF : 7.0/16

Left Out: -0.413+/-51.168 χ^2/NDF : 5.6/22

Right Out: -21.559+/-71.880 χ^2/NDF : 4.7/18

Left In: 52.949+/-47.991 χ^2/NDF : 6.1/20

Left: 27.975+/-35.004 χ^2/NDF : 12.3/43

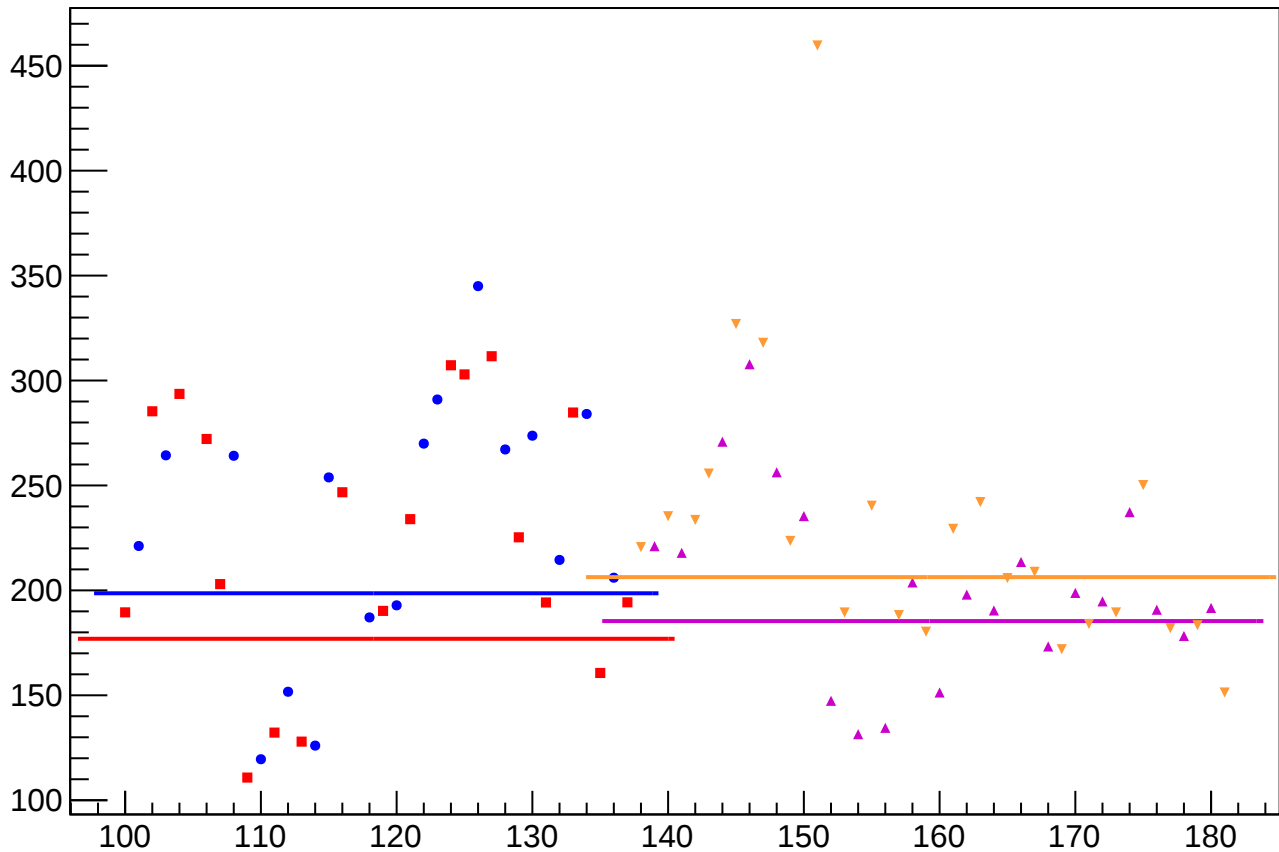
Right: 13.841+/-53.774 χ^2/NDF : 12.2/35

In: 54.477+/-41.293 χ^2/NDF : 13.1/37

Out: -7.525+/-41.685 χ^2/NDF : 10.4/41

All: 23.769+/-29.336 χ^2/NDF : 24.5/79

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.615+/-0.057 χ^2/NDF : 965079.3/16

Left Out: 206.314+/-0.036 χ^2/NDF :1511977.1/22

Right Out: 176.933+/-0.051 χ^2/NDF : 1519414.5/18

Left In: 185.375+/-0.034 χ^2/NDF :1445863.5/20

Left: 195.174+/-0.025 χ^2/NDF : 3136014.5/43

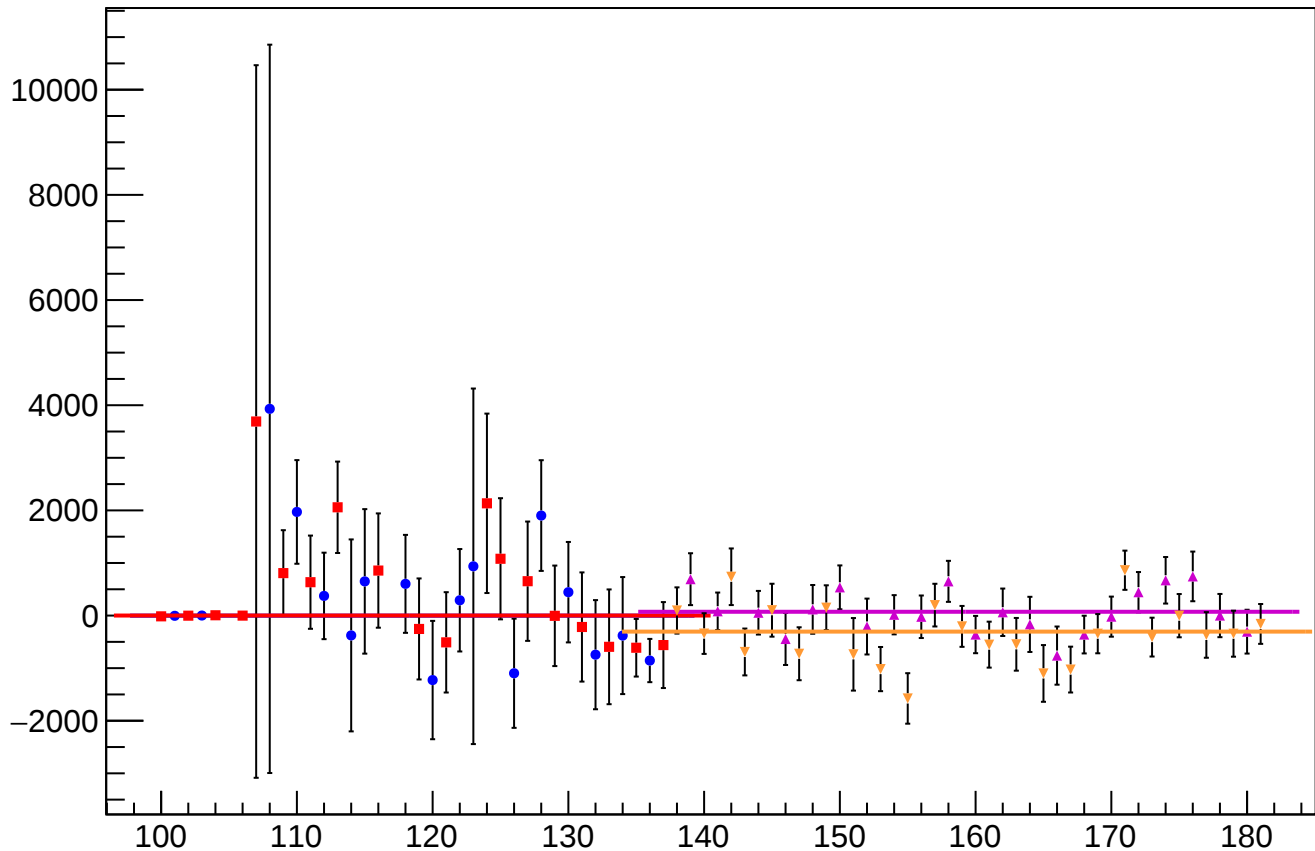
Right: 186.480+/-0.038 χ^2/NDF : 2564624.8/35

In: 188.813+/-0.029 χ^2/NDF :2450467.4/37

Out: 196.433+/-0.029 χ^2/NDF :3253164.9/41

All: 192.587+/-0.021 χ^2/NDF : 5737360.2/79

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.530 ± 2.251 χ^2/NDF : 17.4/16

Left Out: -304.958 ± 90.672 χ^2/NDF : 35.8/22

Right Out: 0.726 ± 2.111 χ^2/NDF : 19.1/18

Left In: 72.175 ± 91.974 χ^2/NDF : 17.6/20

Left: -119.080 ± 64.570 χ^2/NDF : 62.0/43

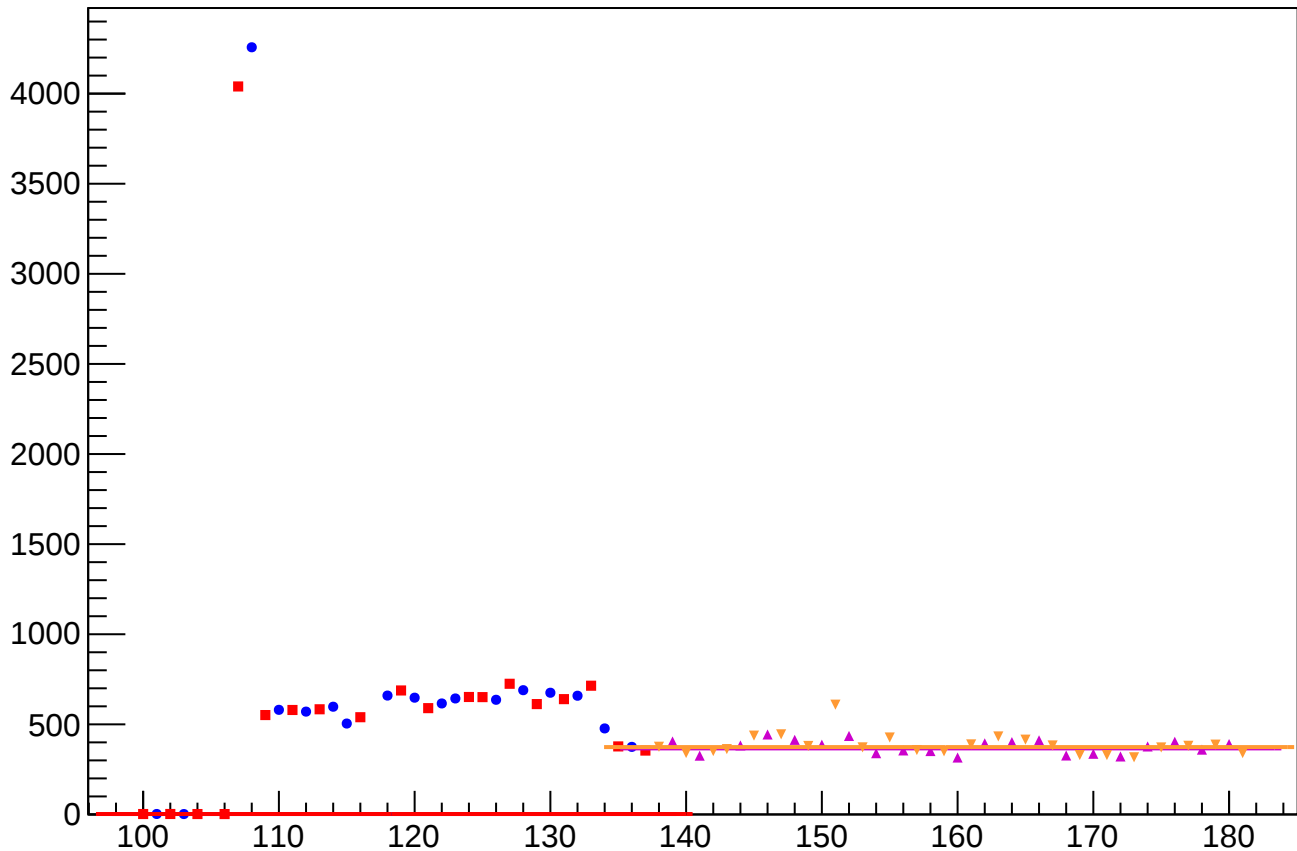
Right: -0.329 ± 1.540 χ^2/NDF : 37.1/35

In: -1.485 ± 2.251 χ^2/NDF : 35.7/37

Out: 0.560 ± 2.111 χ^2/NDF : 66.3/41

All: -0.397 ± 1.540 χ^2/NDF : 102.4/79

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.456+/-0.002 χ^2/NDF : 10808630.7/16

Left Out: 373.834+/-0.064 χ^2/NDF : 523622.6/22

Right Out: 2.437+/-0.001 χ^2/NDF : 11101281.1/18

Left In: 366.524+/-0.065 χ^2/NDF : 318625.7/20

Left: 370.231+/-0.046 χ^2/NDF : 848656.6/43

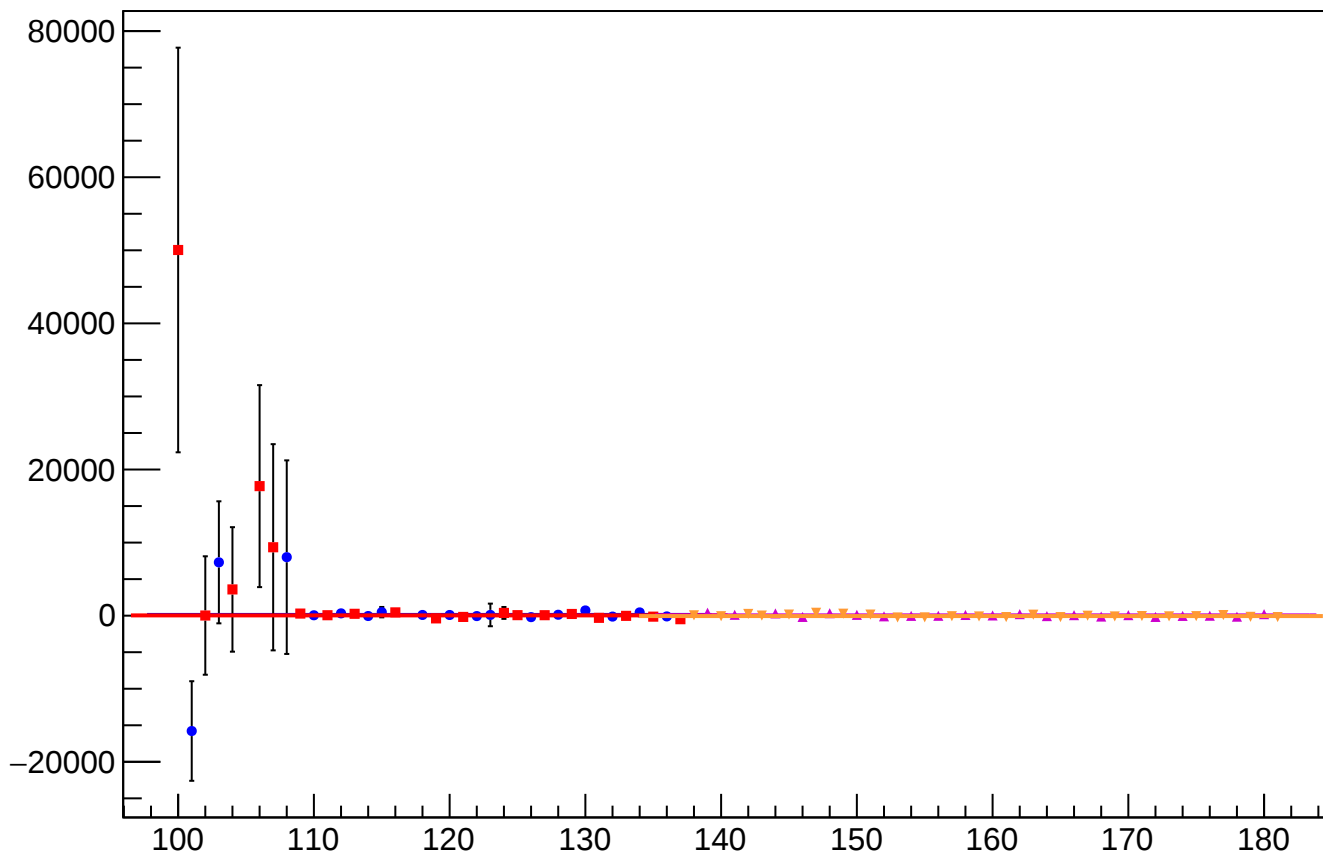
Right: 2.446+/-0.001 χ^2/NDF : 21909994.5/35

In: 2.674+/-0.002 χ^2/NDF : 42445696.6/37

Out: 2.638+/-0.001 χ^2/NDF : 45162122.1/41

All: 2.655+/-0.001 χ^2/NDF : 87608100.9/79

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 100.742 $\pm$ 91.159 χ^2 /NDF: 12.0/16

Left Out: -55.262 $\pm$ 51.902 χ^2 /NDF:7.8/22

Right Out: 37.835 $\pm$ 84.525 χ^2 /NDF: 14.0/18

Left In: 41.464 $\pm$ 50.219 χ^2 /NDF:8.3/20

Left: -5.306 $\pm$ 36.091 χ^2 /NDF: 17.8/43

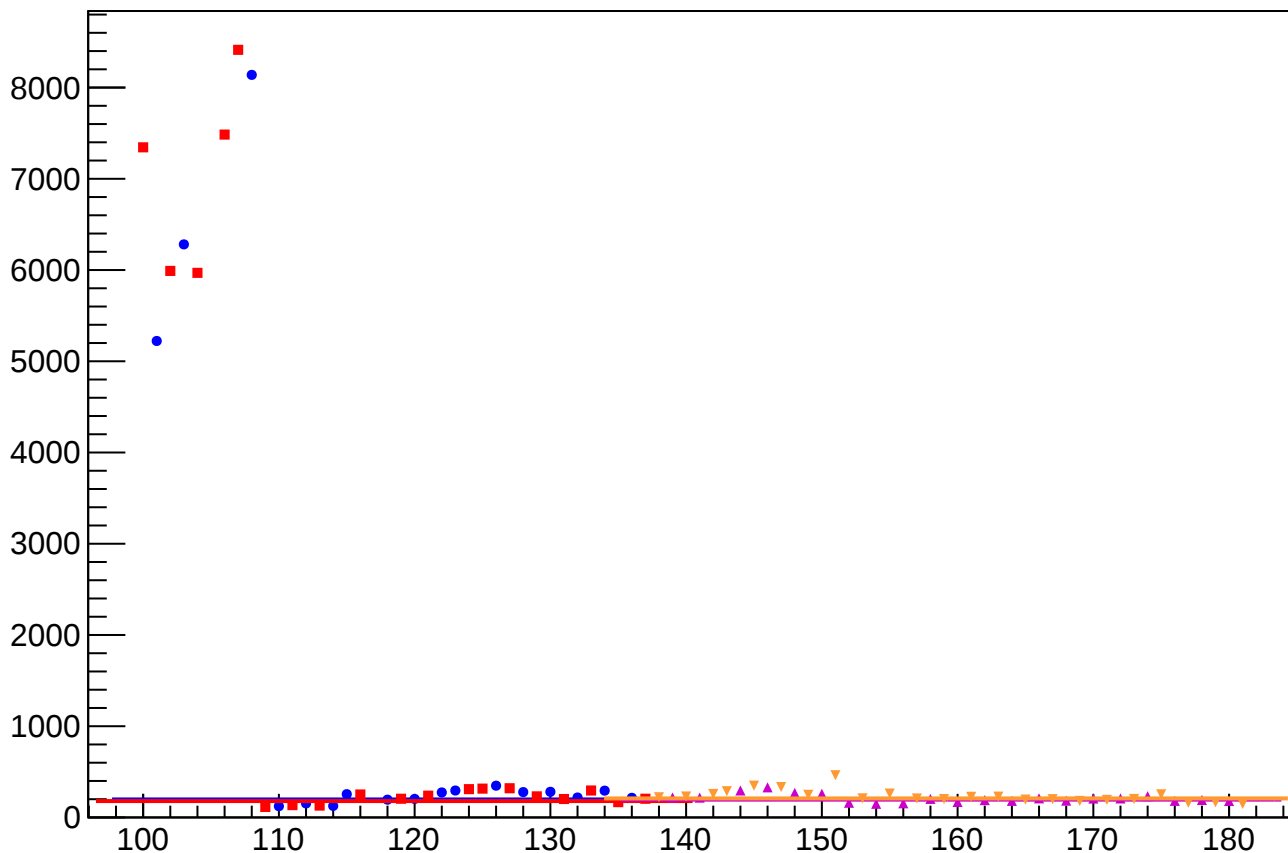
Right: 66.916 $\pm$ 61.981 χ^2 /NDF: 26.3/35

In: 55.265 $\pm$ 43.986 χ^2 /NDF:20.6/37

Out: -29.771 $\pm$ 44.229 χ^2 /NDF:22.7/41

All: 12.982 $\pm$ 31.189 χ^2 /NDF: 45.1/79

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.308+/-0.064 χ^2/NDF : 3696256.2/16

Left Out: 208.561+/-0.037 χ^2/NDF : 1812043.9/22

Right Out: 179.749+/-0.060 χ^2/NDF : 4315581.1/18

Left In: 195.244+/-0.036 χ^2/NDF : 1137549.5/20

Left: 201.683+/-0.026 χ^2/NDF : 3017588.8/43

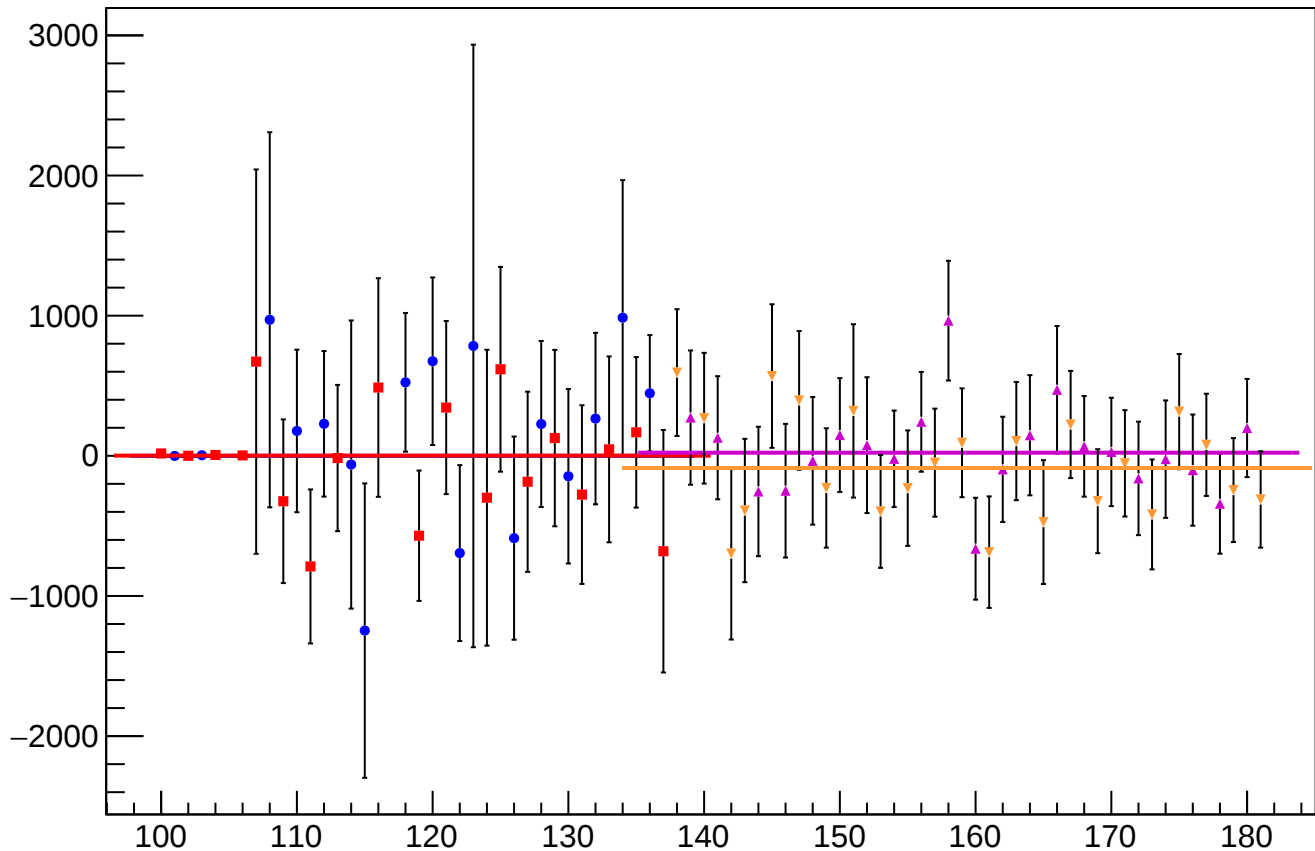
Right: 187.866+/-0.044 χ^2/NDF : 8051736.9/35

In: 195.725+/-0.031 χ^2/NDF : 4834591.8/37

Out: 200.672+/-0.031 χ^2/NDF : 6296377.8/41

All: 198.184+/-0.022 χ^2/NDF : 11143548.6/79

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.140 ± 1.737 χ^2/NDF : 10.0/16

Left Out: -86.911 ± 87.312 χ^2/NDF : 15.1/22

Right Out: 1.323 ± 1.623 χ^2/NDF : 9.4/18

Left In: 22.277 ± 88.010 χ^2/NDF : 12.7/20

Left: -32.752 ± 61.984 χ^2/NDF : 28.6/43

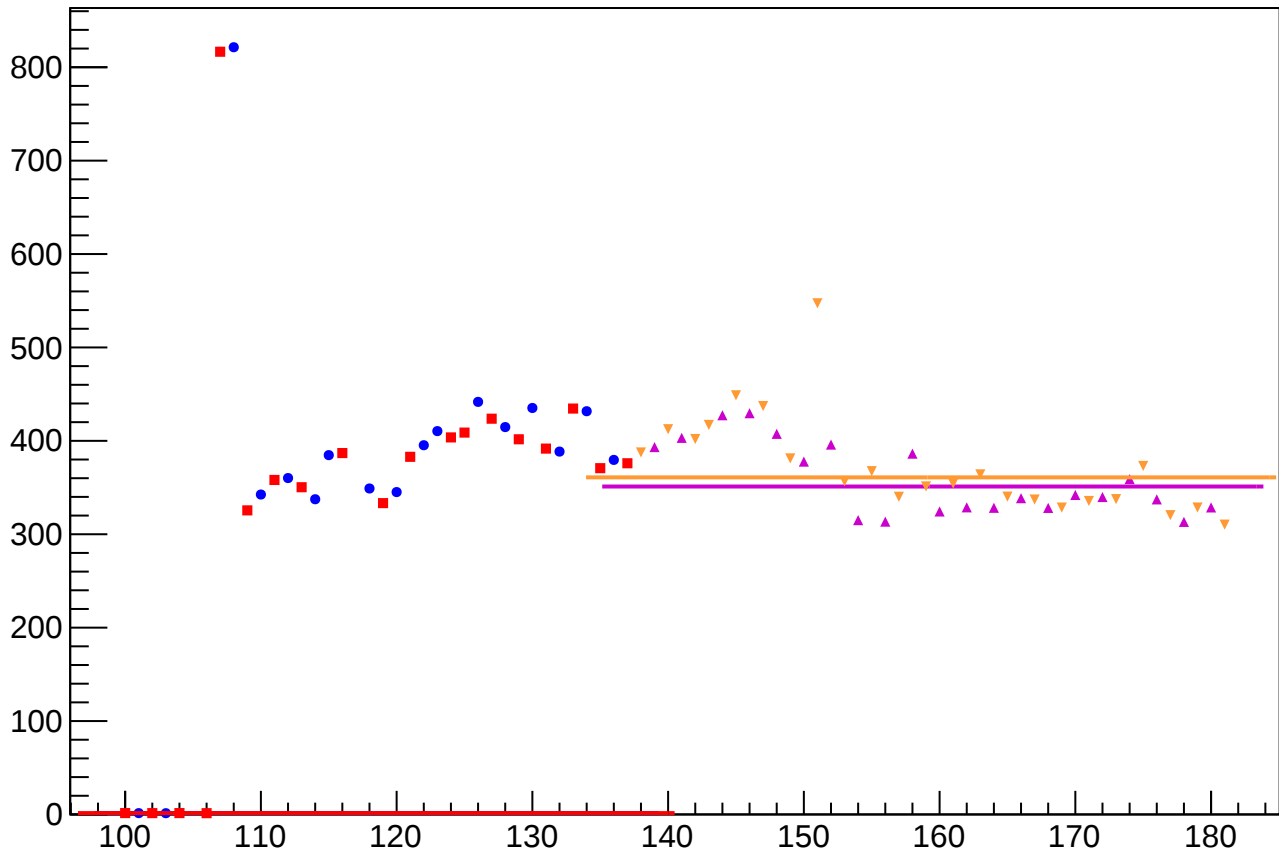
Right: 0.641 ± 1.186 χ^2/NDF : 19.8/35

In: -0.131 ± 1.736 χ^2/NDF : 22.8/37

Out: 1.292 ± 1.622 χ^2/NDF : 25.5/41

All: 0.629 ± 1.185 χ^2/NDF : 48.7/79

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 10914608.7/16

Left Out: 360.900+/-0.062 χ^2/NDF : 493588.4/22

Right Out: 1.451+/-0.001 χ^2/NDF : 10838834.3/18

Left In: 351.103+/-0.062 χ^2/NDF : 336240.5/20

Left: 356.040+/-0.044 χ^2/NDF : 842318.0/43

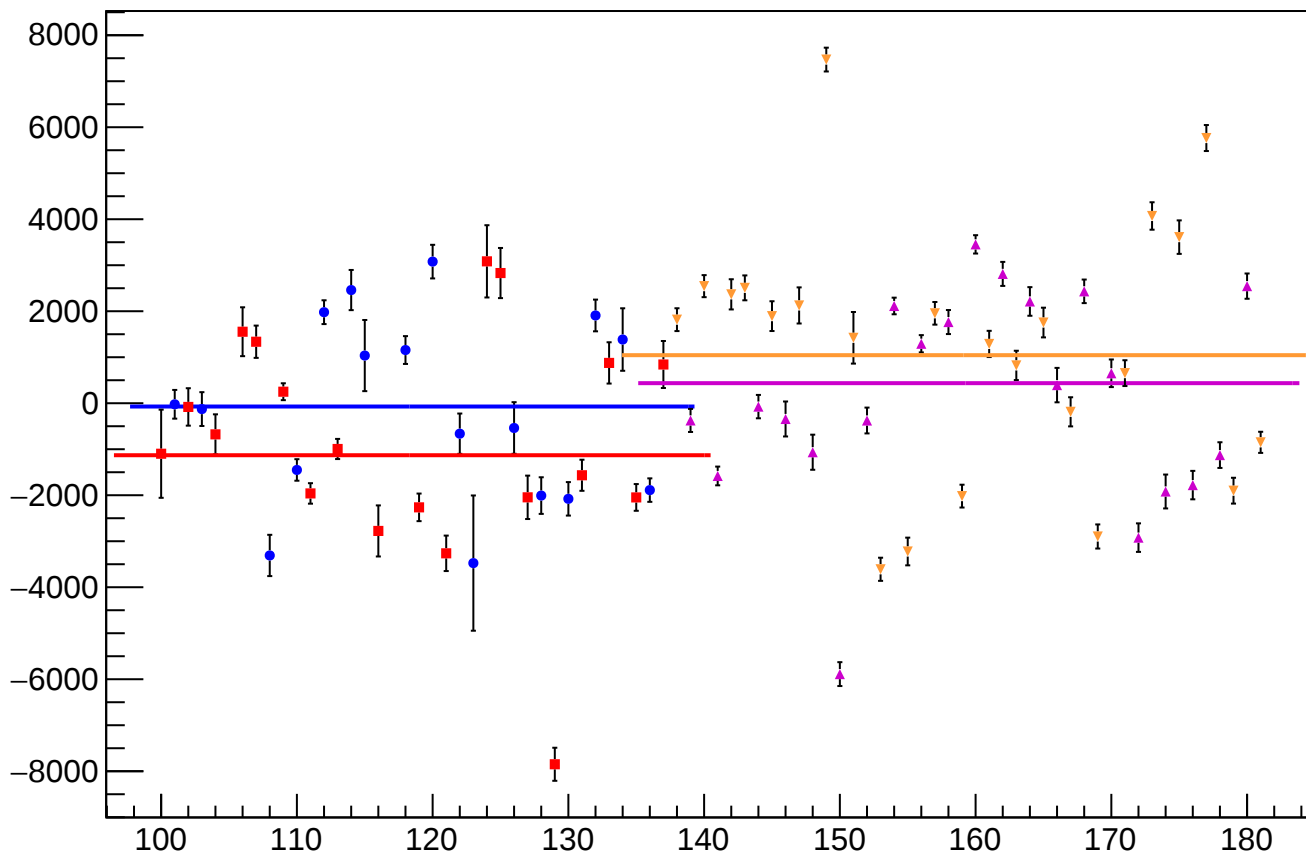
Right: 1.452+/-0.001 χ^2/NDF : 21753444.0/35

In: 1.589+/-0.001 χ^2/NDF : 42805658.4/37

Out: 1.575+/-0.001 χ^2/NDF : 45217463.5/41

All: 1.581+/-0.001 χ^2/NDF : 88023188.2/79

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -71.539 ± 87.764 χ^2/NDF : 426.3/16

Left Out: 1044.603 ± 59.511 χ^2/NDF : 2295.1/22

Right Out: -1130.395 ± 78.436 χ^2/NDF : 688.9/18

Left In: 436.195 ± 56.930 χ^2/NDF : 1573.3/20

Left: 726.918 ± 41.138 χ^2/NDF : 3923.0/43

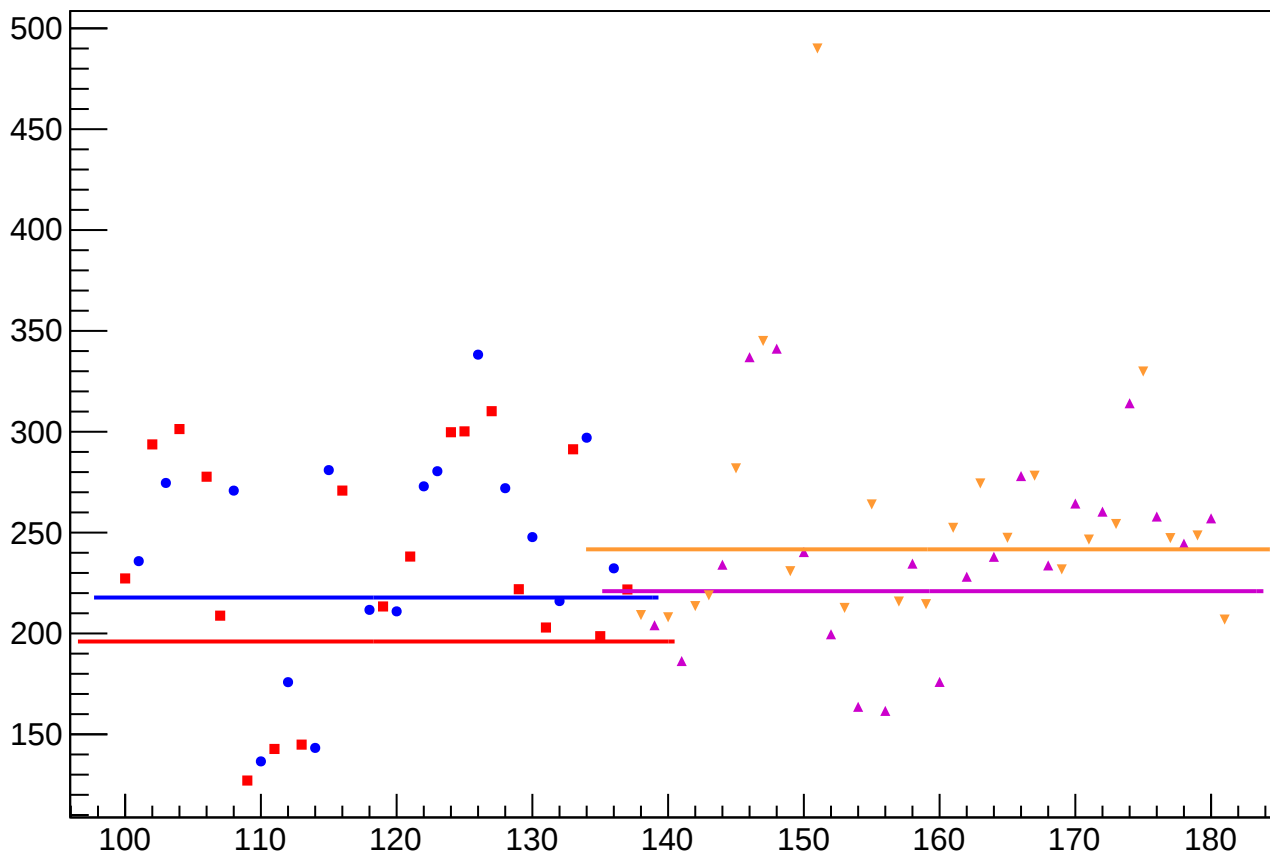
Right: -660.208 ± 58.484 χ^2/NDF : 1196.1/35

In: 285.825 ± 47.762 χ^2/NDF : 2023.1/37

Out: 249.976 ± 47.410 χ^2/NDF : 3472.0/41

All: 267.768 ± 33.648 χ^2/NDF : 5495.4/79

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.814 $\pm$ 0.062 χ^2 /NDF: 661049.8/16

Left Out: 241.706 $\pm$ 0.042 χ^2 /NDF: 974859.2/22

Right Out: 196.014 $\pm$ 0.055 χ^2 /NDF: 1189121.8/18

Left In: 220.961 $\pm$ 0.040 χ^2 /NDF: 1327617.7/20

Left: 230.873 $\pm$ 0.029 χ^2 /NDF: 2429378.8/43

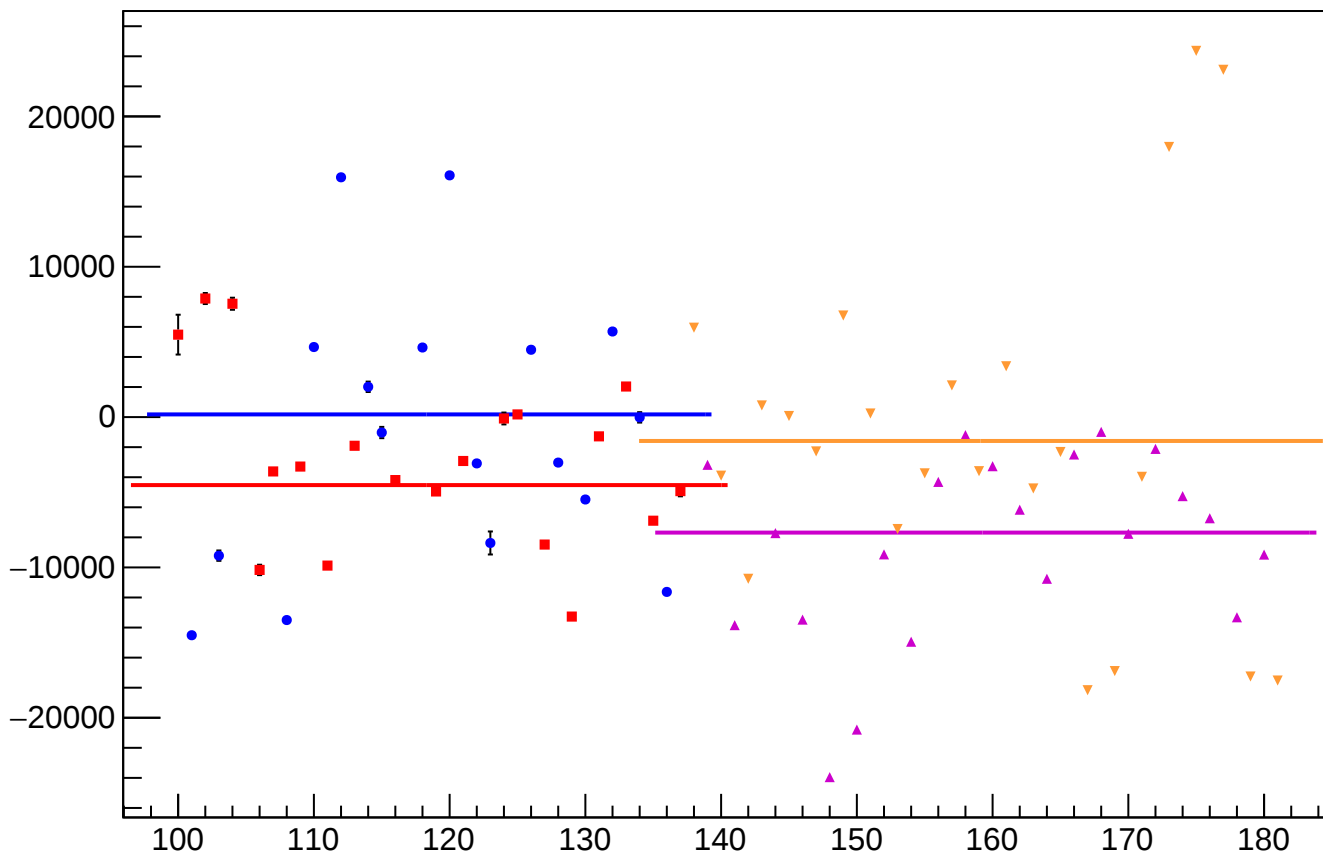
Right: 205.694 $\pm$ 0.041 χ^2 /NDF: 1918777.4/35

In: 220.029 $\pm$ 0.034 χ^2 /NDF: 1990477.0/37

Out: 225.012 $\pm$ 0.034 χ^2 /NDF: 2594724.6/41

All: 222.539 $\pm$ 0.024 χ^2 /NDF: 4596169.7/79

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788 ± 54.896 $\chi^2/\text{NDF}: 30662.2/16$

Left Out: -1587.880 ± 43.094 $\chi^2/\text{NDF}: 60612.3/22$

Right Out: -4523.222 ± 52.440 $\chi^2/\text{NDF}: 7474.2/18$

Left In: -7683.382 ± 45.082 $\chi^2/\text{NDF}: 17766.3/20$

Left: -4498.298 ± 31.151 $\chi^2/\text{NDF}: 87931.3/43$

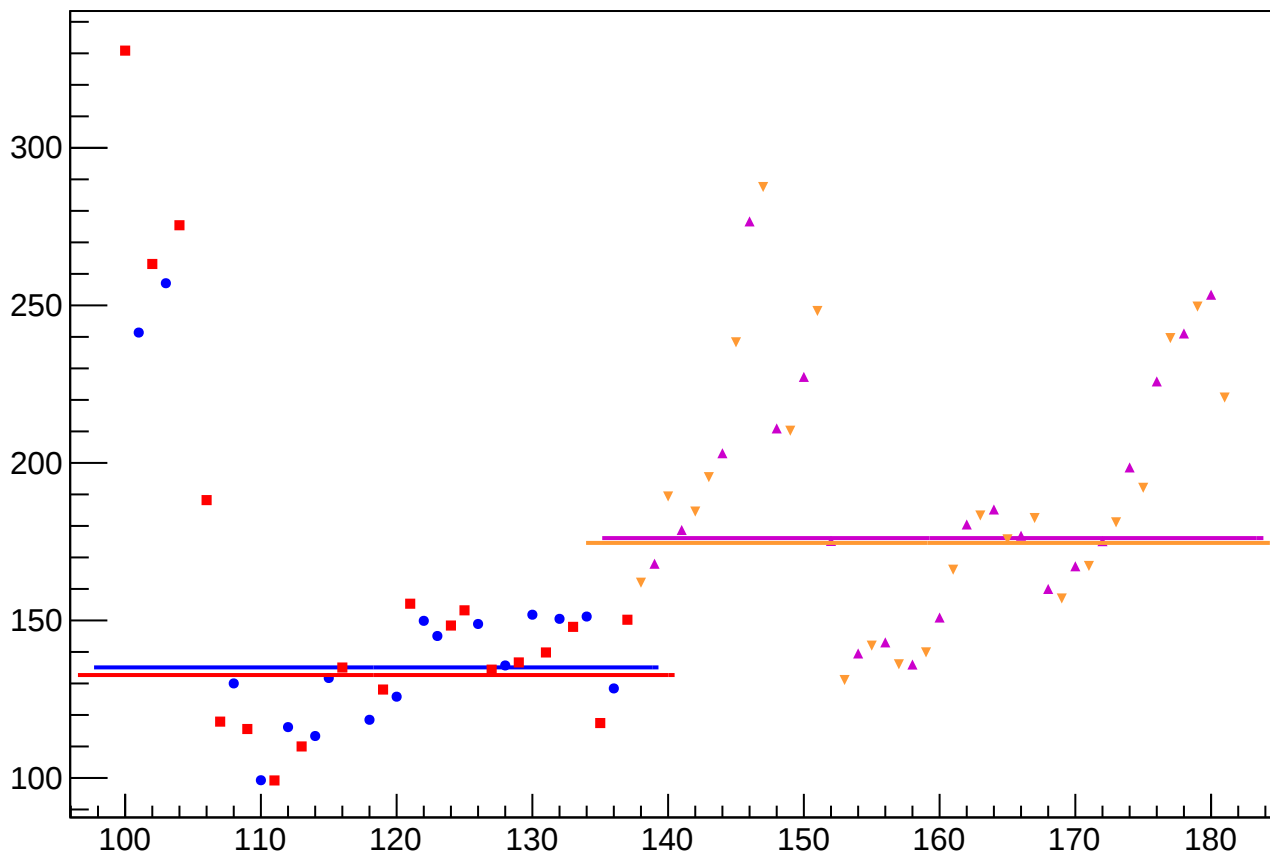
Right: -2279.776 ± 37.919 $\chi^2/\text{NDF}: 41972.4/35$

In: -4516.735 ± 34.840 $\chi^2/\text{NDF}: 60678.6/37$

Out: -2771.124 ± 33.294 $\chi^2/\text{NDF}: 69956.8/41$

All: -3604.358 ± 24.070 $\chi^2/\text{NDF}: 131947.4/77$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099+/-0.039 χ^2/NDF : 657657.4/16

Left Out: 174.610+/-0.030 χ^2/NDF : 1405215.3/22

Right Out: 132.672+/-0.037 χ^2/NDF : 828363.1/18

Left In: 176.141+/-0.032 χ^2/NDF : 1145624.0/20

Left: 175.341+/-0.022 χ^2/NDF : 2552044.1/43

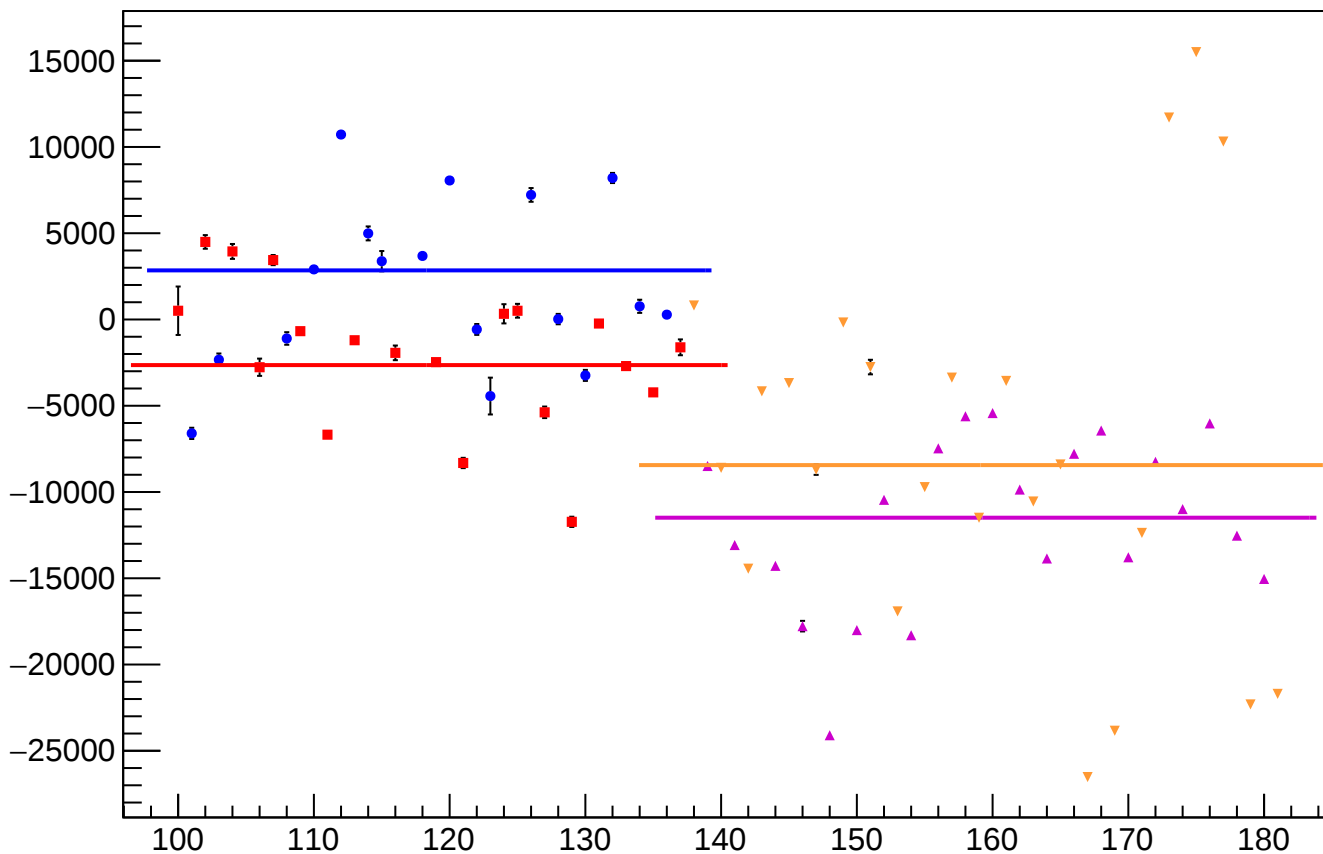
Right: 133.830+/-0.027 χ^2/NDF : 1488063.7/35

In: 159.610+/-0.025 χ^2/NDF : 2470929.7/37

Out: 157.705+/-0.024 χ^2/NDF : 2997108.3/41

All: 158.614+/-0.017 χ^2/NDF : 5471164.9/79

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117+/-70.894 χ^2/NDF : 4160.1/16

Left Out: -8440.454+/-46.910 χ^2/NDF : 53871.1/22

Right Out: -2643.505+/-65.711 χ^2/NDF : 3177.7/18

Left In: -11489.213+/-45.217 χ^2/NDF : 11603.3/20

Left: -10020.847+/-32.555 χ^2/NDF : 67664.0/43

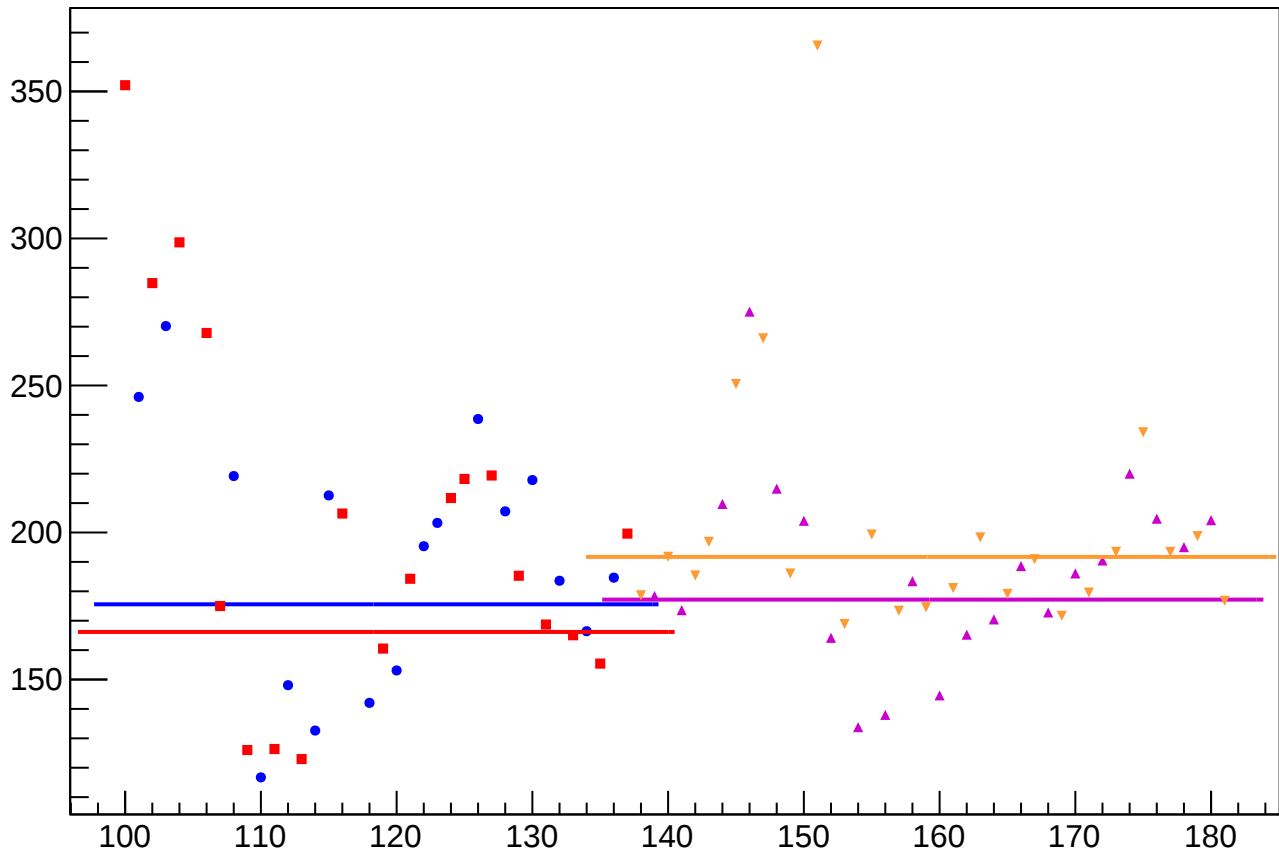
Right: -106.685+/-48.193 χ^2/NDF : 10563.0/35

In: -7343.899+/-38.123 χ^2/NDF : 44827.8/37

Out: -6483.476+/-38.180 χ^2/NDF : 62204.1/41

All: -6914.327+/-26.977 χ^2/NDF : 107286.3/77

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582+/-0.050 χ^2/NDF : 687852.4/16

Left Out: 191.702+/-0.033 χ^2/NDF : 724979.8/22

Right Out: 166.180+/-0.046 χ^2/NDF : 925559.0/18

Left In: 177.174+/-0.032 χ^2/NDF : 855090.3/20

Left: 184.171+/-0.023 χ^2/NDF : 1679512.1/43

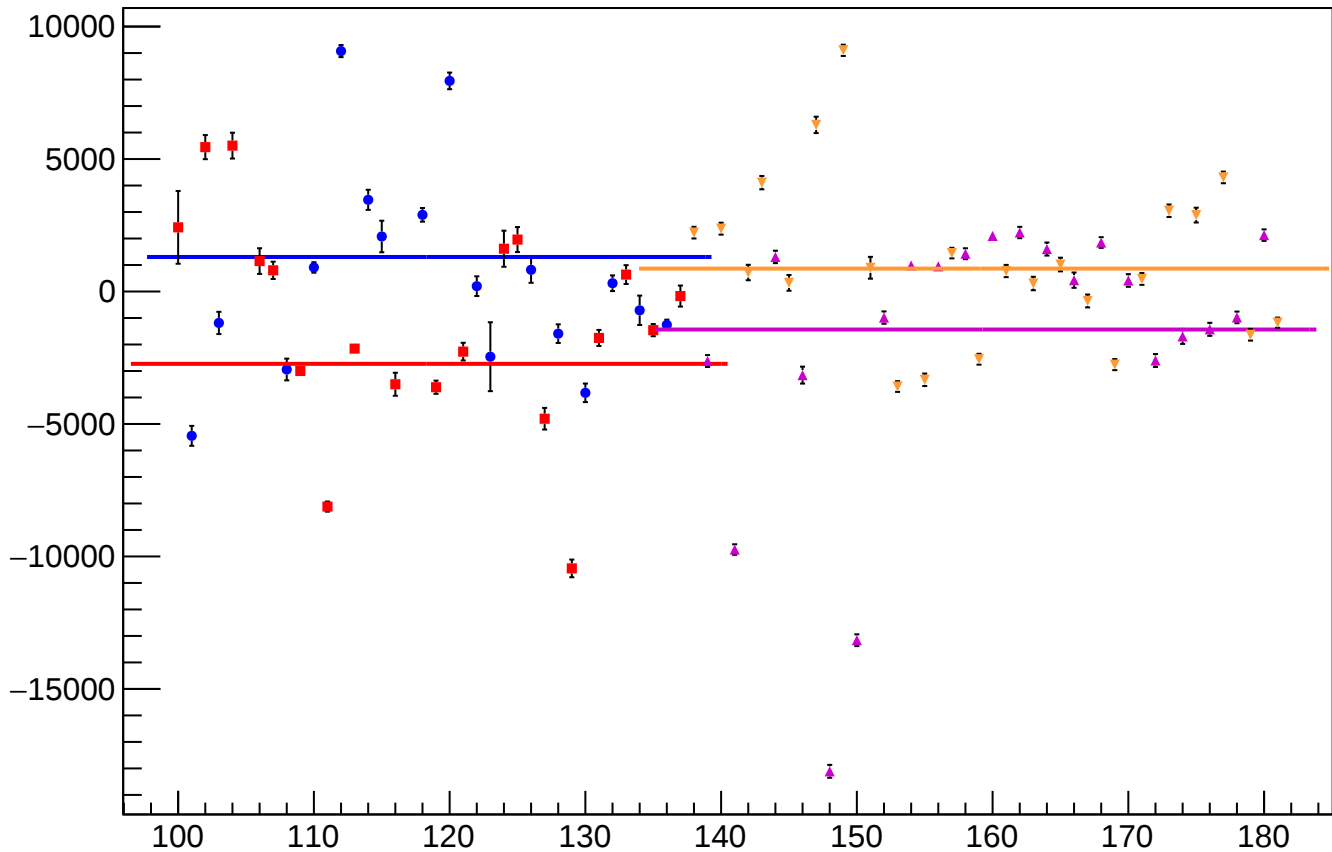
Right: 170.525+/-0.034 χ^2/NDF : 1632331.4/35

In: 176.713+/-0.027 χ^2/NDF : 1543659.5/37

Out: 183.086+/-0.027 χ^2/NDF : 1850391.3/41

All: 179.895+/-0.019 χ^2/NDF : 3421952.9/79

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950+/-77.323 χ^2/NDF : 2649.9/16

Left Out: 864.423+/-49.044 χ^2/NDF :4090.0/22

Right Out: -2729.355+/-70.012 χ^2/NDF : 2497.2/18

Left In: -1434.946+/-47.299 χ^2/NDF :11595.1/20

Left: -326.901+/-34.045 χ^2/NDF : 16824.0/43

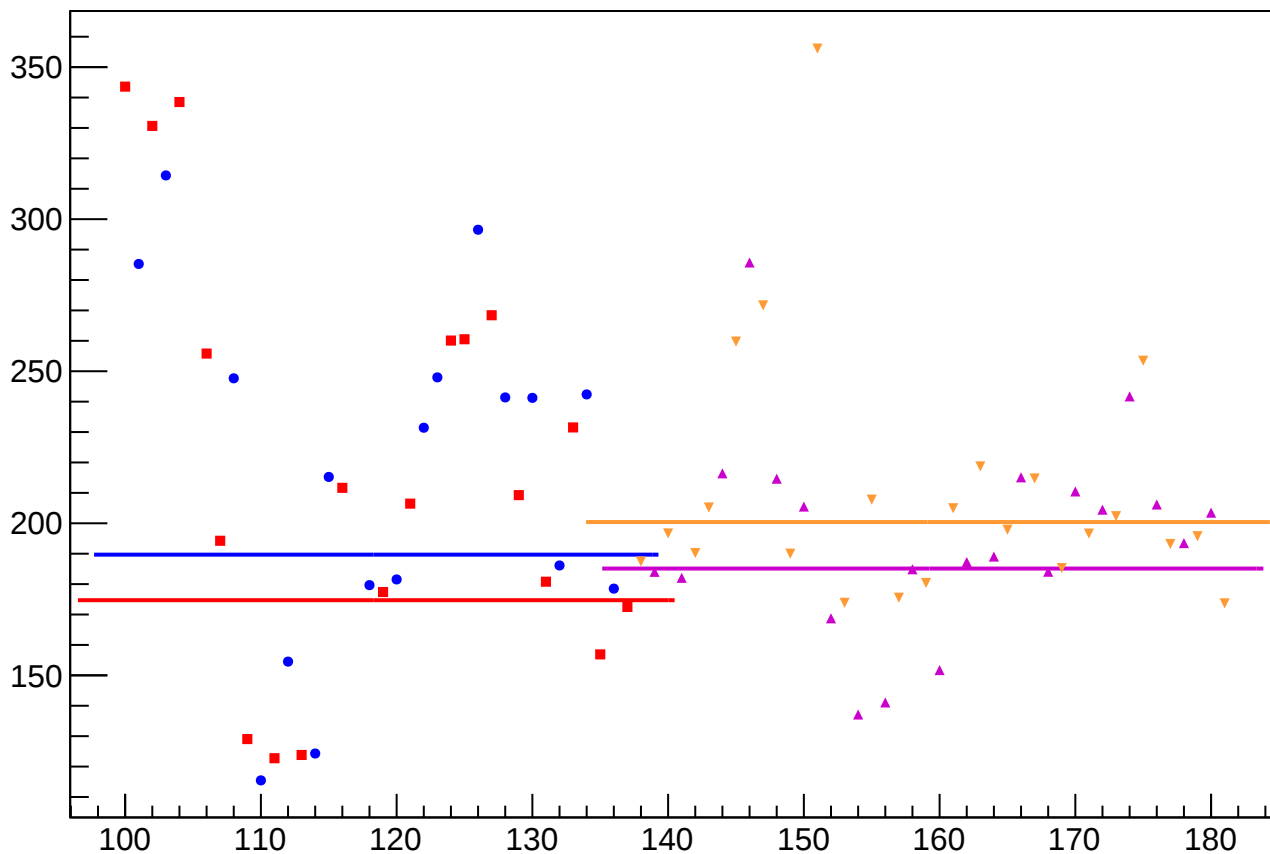
Right: -912.817+/-51.899 χ^2/NDF : 6641.4/35

In: -689.441+/-40.348 χ^2/NDF :15157.4/37

Out: -318.578+/-40.169 χ^2/NDF :8354.7/41

All: -503.181+/-28.467 χ^2/NDF : 23554.5/79

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2/NDF : 977199.2/16

Left Out: 200.411 $\pm$ 0.035 χ^2/NDF : 715827.8/22

Right Out: 174.707 $\pm$ 0.050 χ^2/NDF : 1291115.5/18

Left In: 185.117 $\pm$ 0.033 χ^2/NDF : 882704.7/20

Left: 192.487 $\pm$ 0.024 χ^2/NDF : 1699307.4/43

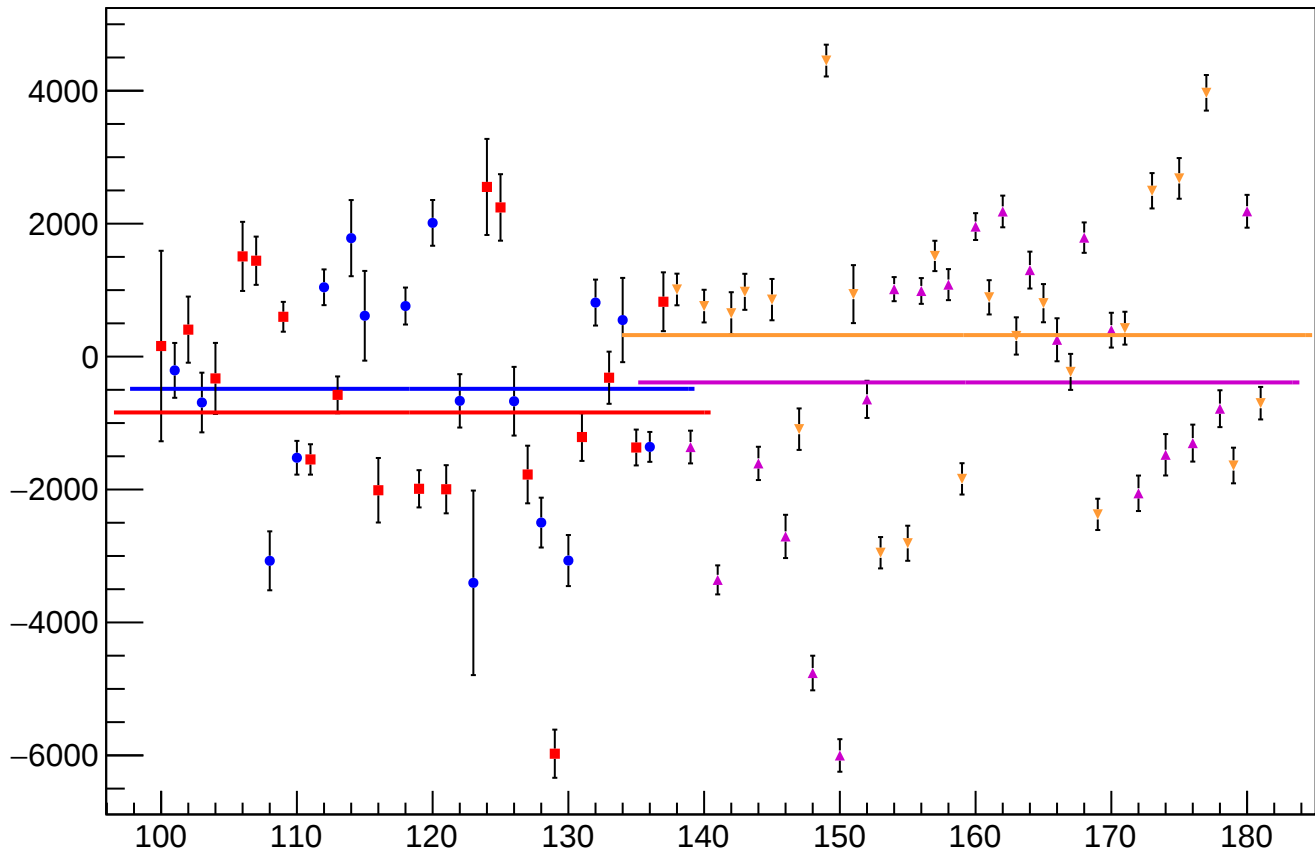
Right: 181.455 $\pm$ 0.037 χ^2/NDF : 2309563.7/35

In: 186.361 $\pm$ 0.029 χ^2/NDF : 1864988.4/37

Out: 191.950 $\pm$ 0.028 χ^2/NDF : 2187789.5/41

All: 189.168 $\pm$ 0.020 χ^2/NDF : 4072048.7/79

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -485.036±/88.788 χ^2/NDF : 285.3/16

Left Out: 323.339±/55.229 χ^2/NDF :1312.2/22

Right Out: -840.594±/82.233 χ^2/NDF : 438.2/18

Left In: -388.764±/53.656 χ^2/NDF :1797.0/20

Left: -42.992±/38.485 χ^2/NDF : 3194.7/43

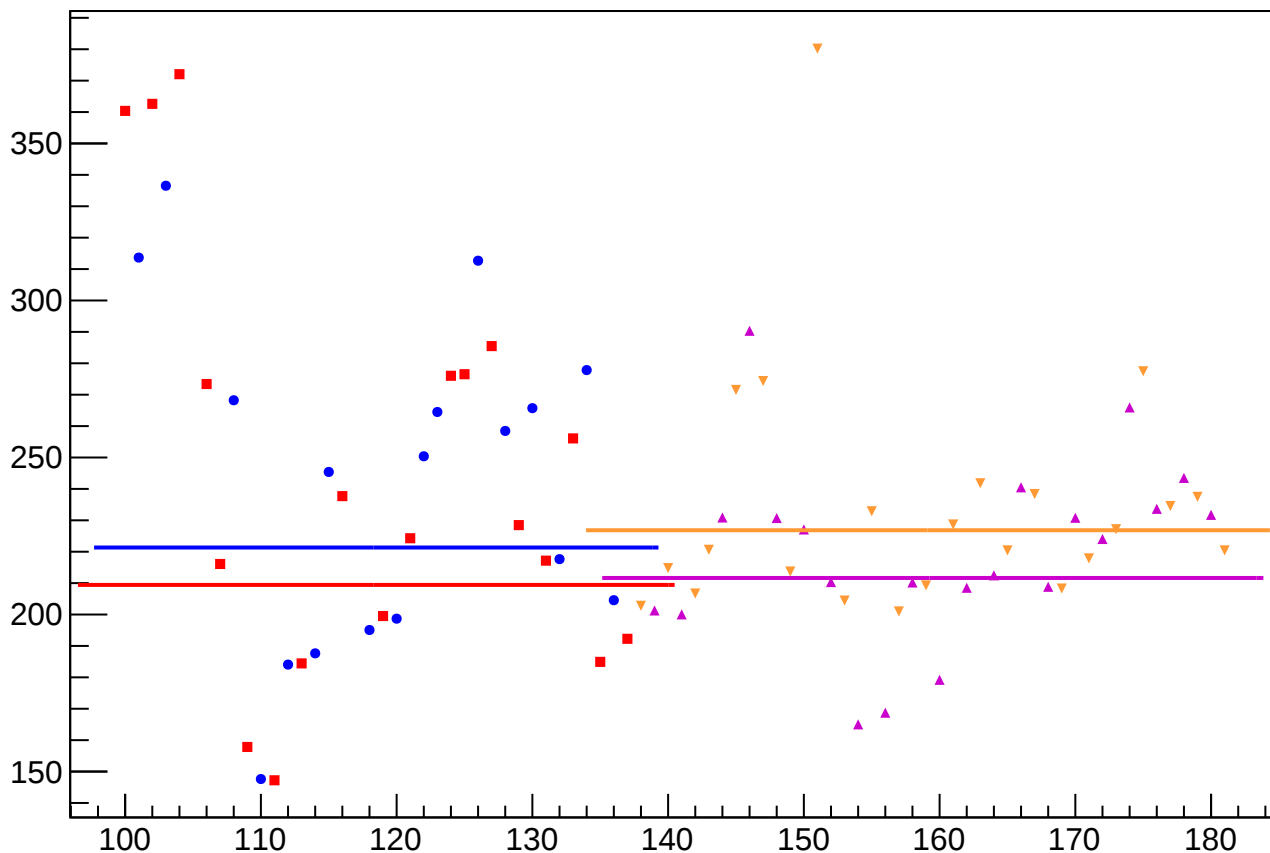
Right: -676.425±/60.332 χ^2/NDF : 732.1/35

In: -414.517±/45.922 χ^2/NDF :2083.1/37

Out: -38.473±/45.848 χ^2/NDF :1888.5/41

All: -226.191±/32.446 χ^2/NDF : 4005.2/79

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 $\pm$ 0.063 χ^2 /NDF: 645507.4/16

Left Out: 226.836 $\pm$ 0.039 χ^2 /NDF: 517293.9/22

Right Out: 209.428 $\pm$ 0.058 χ^2 /NDF: 879292.0/18

Left In: 211.642 $\pm$ 0.038 χ^2 /NDF: 582988.2/20

Left: 219.019 $\pm$ 0.027 χ^2 /NDF: 1178152.2/43

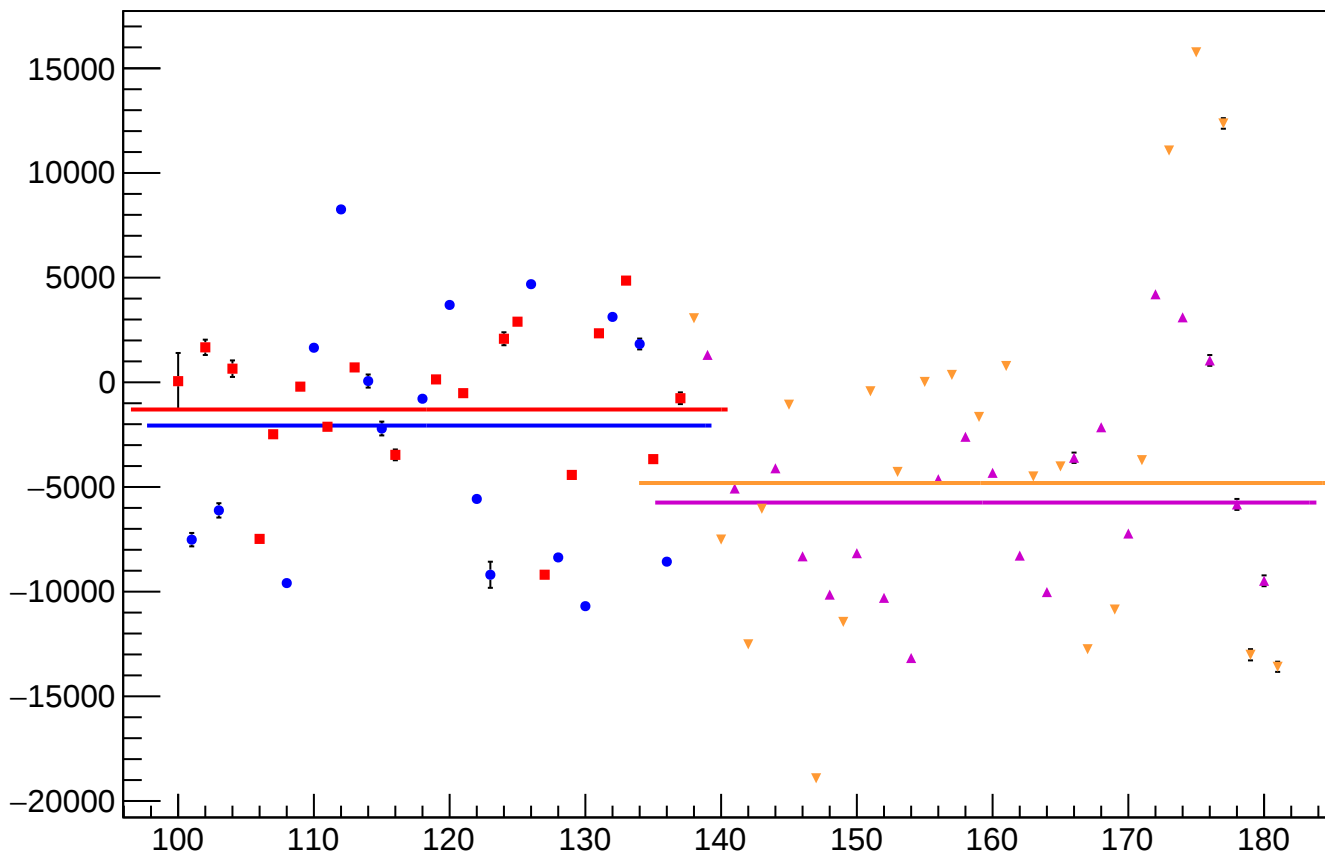
Right: 214.927 $\pm$ 0.043 χ^2 /NDF: 1544173.7/35

In: 214.236 $\pm$ 0.032 χ^2 /NDF: 1245970.3/37

Out: 221.424 $\pm$ 0.032 χ^2 /NDF: 1458351.1/41

All: 217.836 $\pm$ 0.023 χ^2 /NDF: 2728865.2/79

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524 $\pm$ 47.407 χ^2/NDF : 16535.7/16

Left Out: -4809.676 $\pm$ 34.168 χ^2/NDF : 51757.6/22

Right Out: -1298.632 $\pm$ 44.980 χ^2/NDF : 5909.5/18

Left In: -5744.333 $\pm$ 35.415 χ^2/NDF : 14303.9/20

Left: -5260.254 $\pm$ 24.590 χ^2/NDF : 66422.2/43

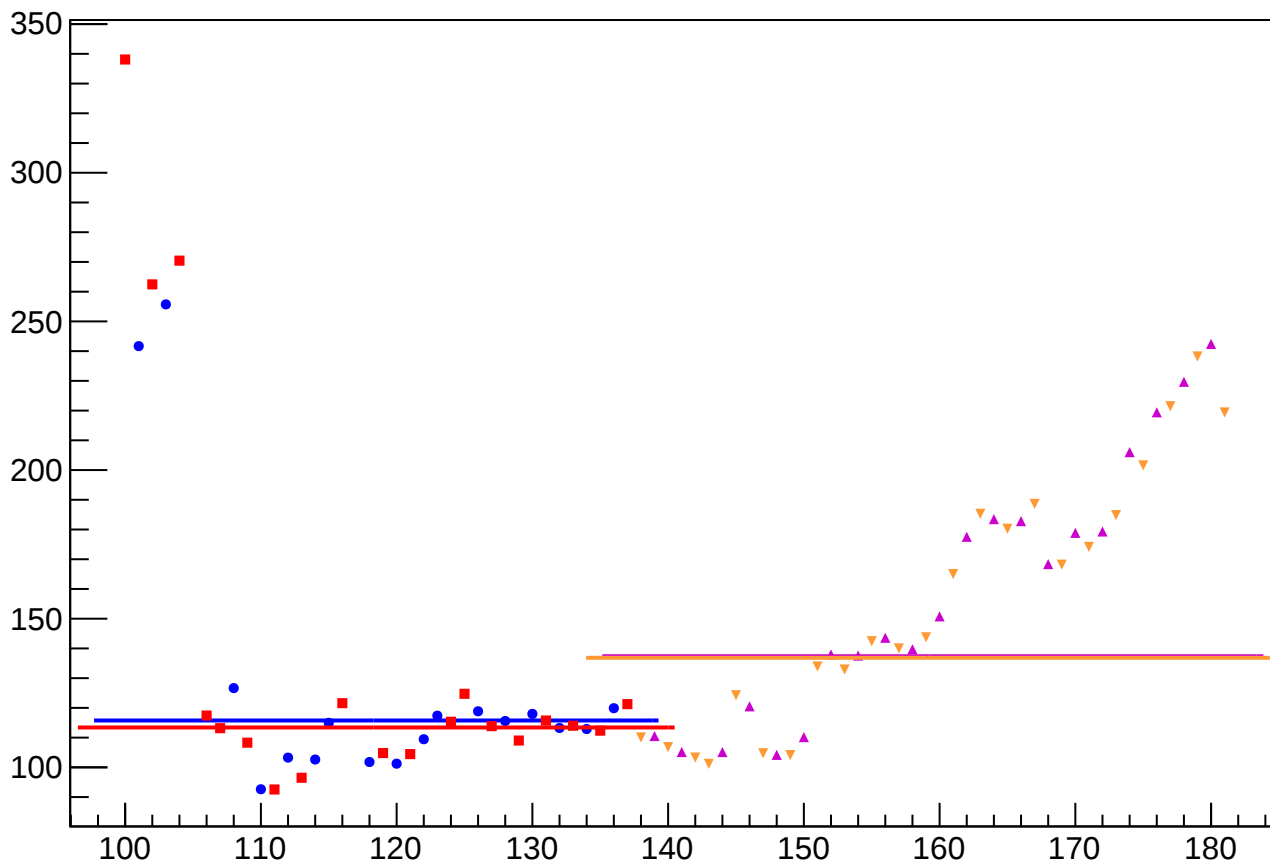
Right: -1661.949 $\pm$ 32.630 χ^2/NDF : 22582.8/35

In: -4426.626 $\pm$ 28.372 χ^2/NDF : 34704.5/37

Out: -3525.003 $\pm$ 27.208 χ^2/NDF : 61530.6/41

All: -3956.937 $\pm$ 19.638 χ^2/NDF : 96761.2/79

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768 $\pm$ 0.034 χ^2 /NDF: 743657.8/16

Left Out: 136.850 $\pm$ 0.024 χ^2 /NDF: 2241155.4/22

Right Out: 113.410 $\pm$ 0.032 χ^2 /NDF: 795303.3/18

Left In: 137.366 $\pm$ 0.025 χ^2 /NDF: 2080851.7/20

Left: 137.099 $\pm$ 0.017 χ^2 /NDF: 4322227.0/43

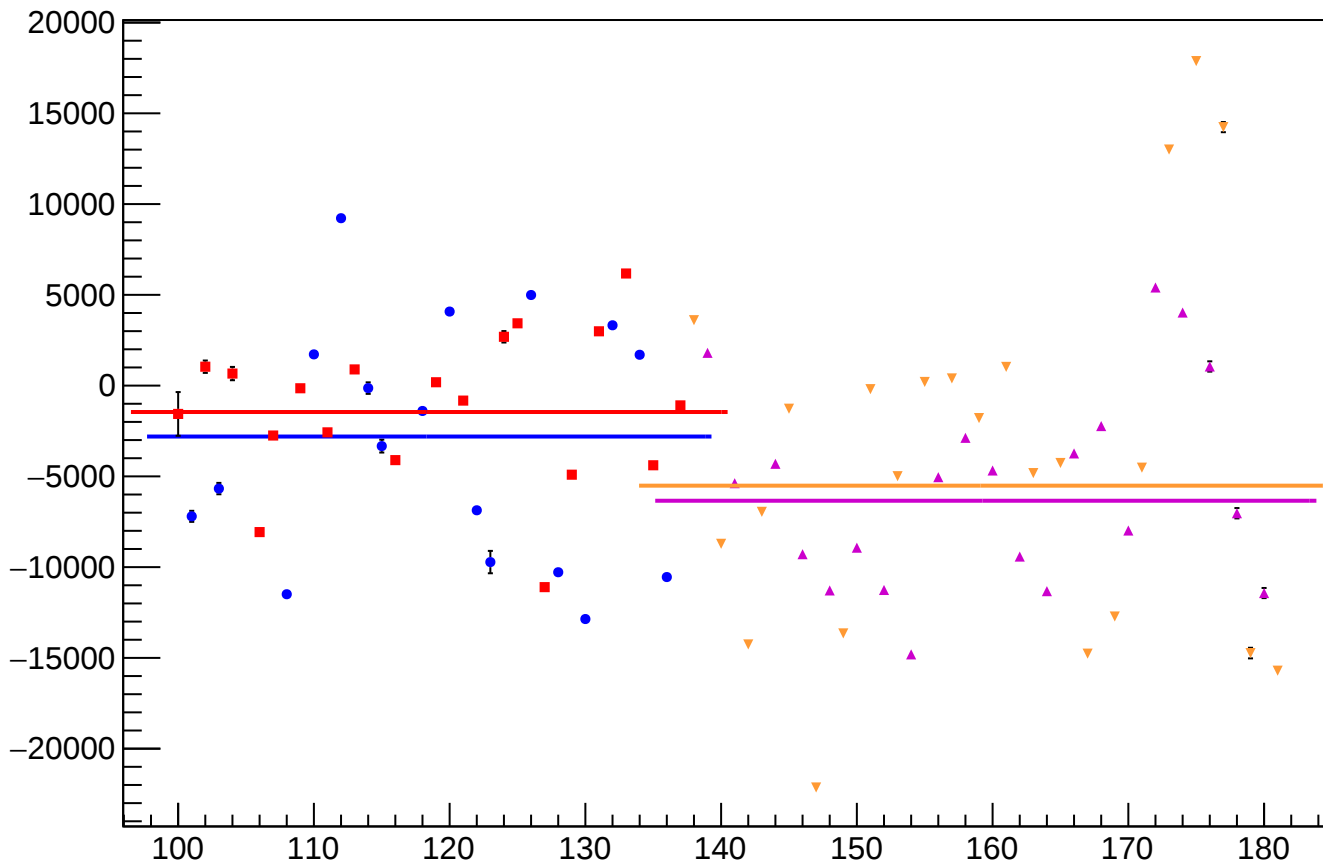
Right: 114.527 $\pm$ 0.023 χ^2 /NDF: 1541564.1/35

In: 129.630 $\pm$ 0.020 χ^2 /NDF: 3090956.5/37

Out: 128.274 $\pm$ 0.019 χ^2 /NDF: 3380866.0/41

All: 128.923 $\pm$ 0.014 χ^2 /NDF: 6474203.4/79

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2805.410+/-48.358 χ^2/NDF : 21259.6/16

Left Out: -5511.649+/-36.377 χ^2/NDF : 60165.3/22

Right Out: -1454.376+/-46.372 χ^2/NDF : 8020.2/18

Left In: -6342.481+/-37.723 χ^2/NDF : 16686.5/20

Left: -5911.971+/-26.185 χ^2/NDF : 77103.1/43

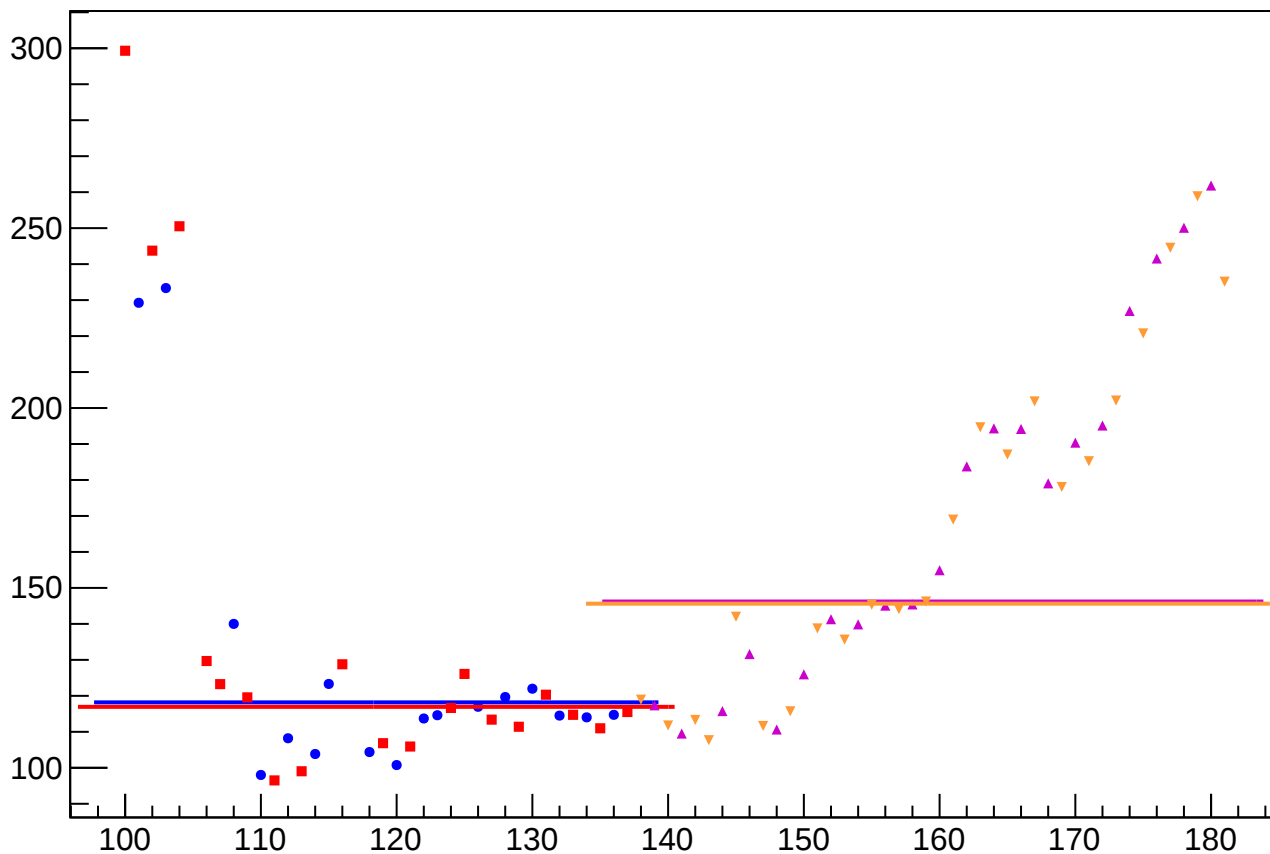
Right: -2101.578+/-33.470 χ^2/NDF : 29686.5/35

In: -5004.369+/-29.744 χ^2/NDF : 41272.1/37

Out: -3966.055+/-28.621 χ^2/NDF : 72924.4/41

All: -4465.249+/-20.624 χ^2/NDF : 114829.3/77

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.187 $\pm$ 0.034 χ^2 /NDF: 636345.5/16

Left Out: 145.619 $\pm$ 0.026 χ^2 /NDF: 2211921.8/22

Right Out: 116.944 $\pm$ 0.033 χ^2 /NDF: 689368.0/18

Left In: 146.218 $\pm$ 0.027 χ^2 /NDF: 2063977.9/20

Left: 145.908 $\pm$ 0.019 χ^2 /NDF: 4276160.9/43

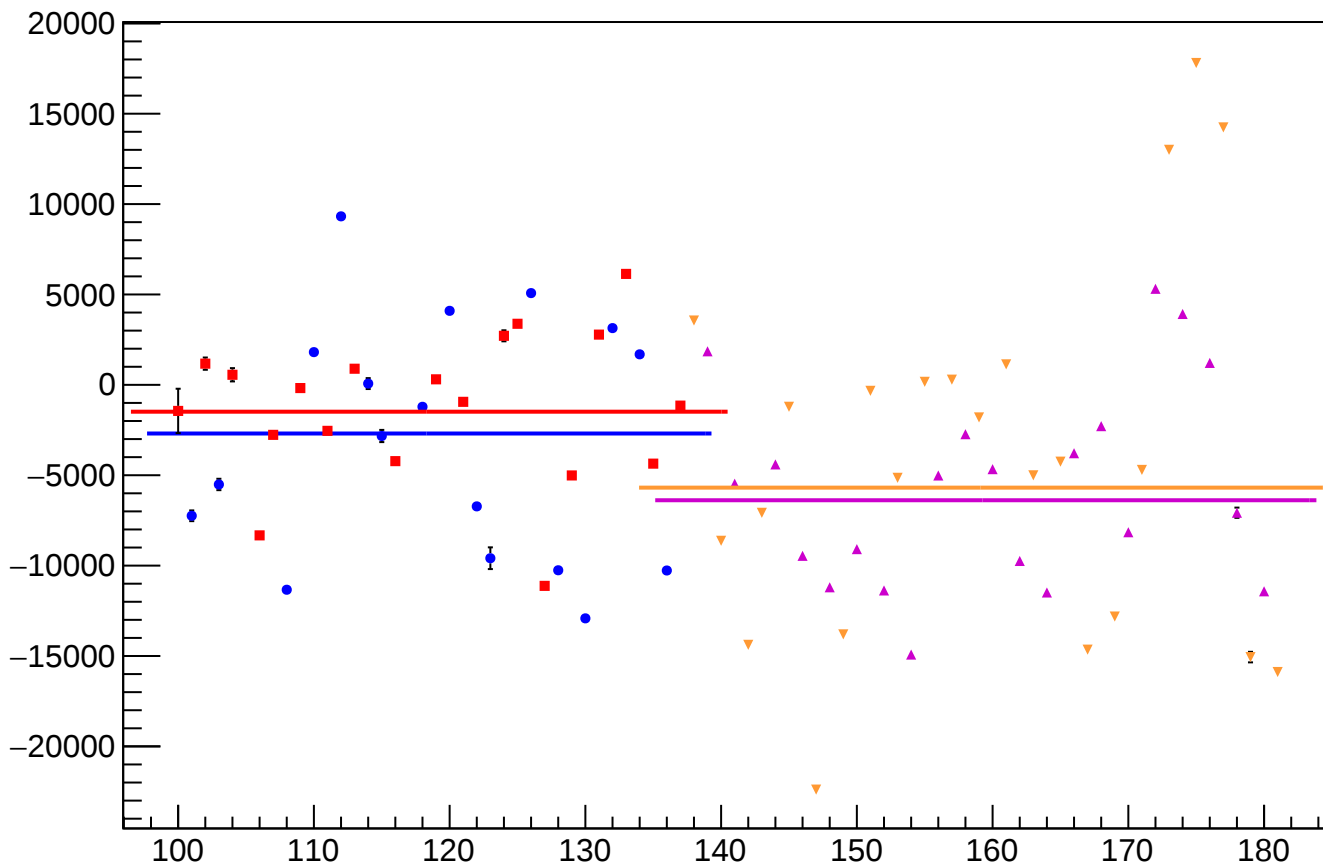
Right: 117.539 $\pm$ 0.024 χ^2 /NDF: 1326402.5/35

In: 135.614 $\pm$ 0.021 χ^2 /NDF: 3118092.9/37

Out: 134.695 $\pm$ 0.020 χ^2 /NDF: 3374737.2/41

All: 135.137 $\pm$ 0.015 χ^2 /NDF: 6493819.9/79

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2691.569 ± 46.420 $\chi^2/\text{NDF}: 22847.7/16$

Left Out: -5685.794 ± 35.546 $\chi^2/\text{NDF}: 64633.4/22$

Right Out: -1484.889 ± 44.421 $\chi^2/\text{NDF}: 8724.0/18$

Left In: -6383.824 ± 36.789 $\chi^2/\text{NDF}: 17789.7/20$

Left: -6022.820 ± 25.563 $\chi^2/\text{NDF}: 82609.3/43$

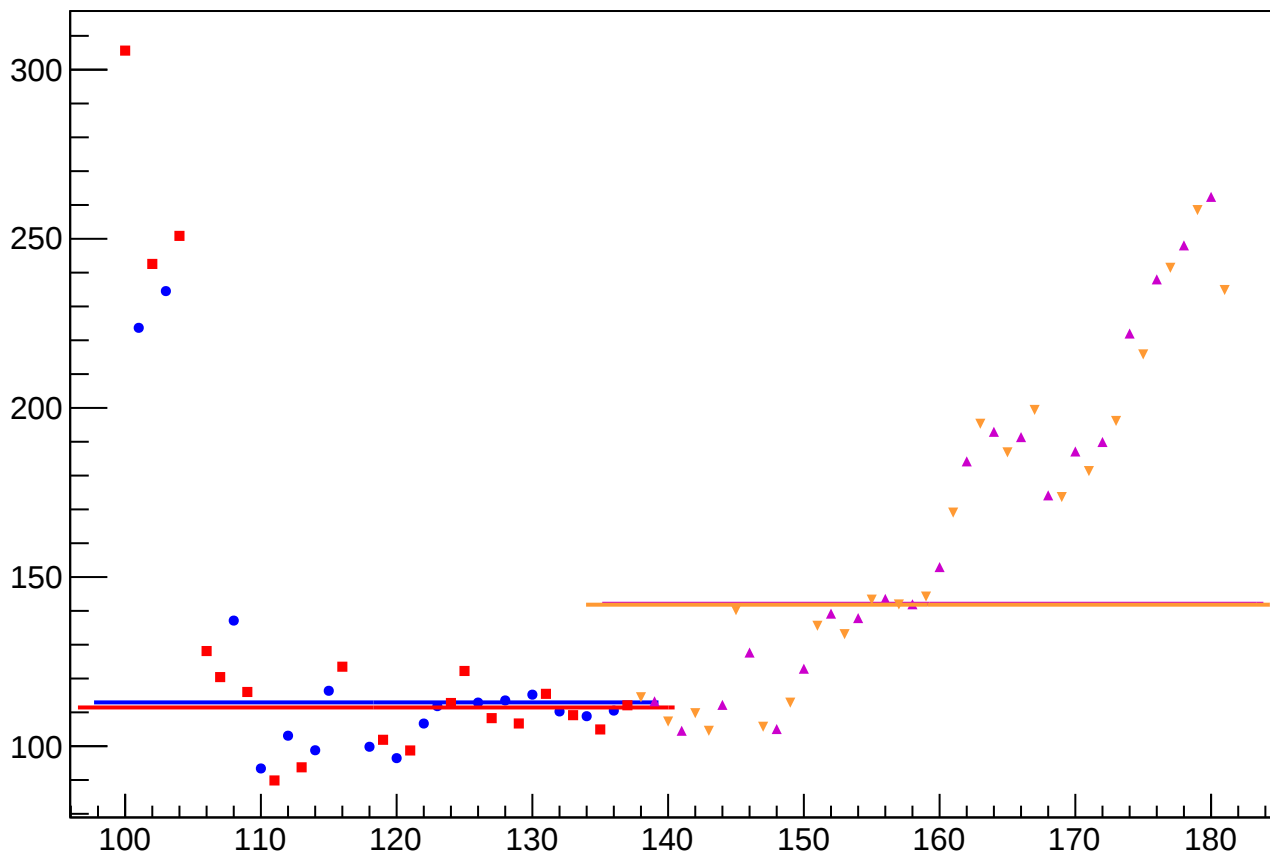
Right: -2061.688 ± 32.094 $\chi^2/\text{NDF}: 31924.4/35$

In: -4959.398 ± 28.832 $\chi^2/\text{NDF}: 44523.4/37$

Out: -4045.876 ± 27.754 $\chi^2/\text{NDF}: 78809.7/41$

All: -4485.238 ± 19.995 $\chi^2/\text{NDF}: 123854.1/77$

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 112.944+/-0.033 χ^2/NDF : 680438.6/16

Left Out: 141.833+/-0.025 χ^2/NDF : 2375445.4/22

Right Out: 111.444+/-0.031 χ^2/NDF : 764132.1/18

Left In: 142.104+/-0.026 χ^2/NDF : 2222689.8/20

Left: 141.964+/-0.018 χ^2/NDF : 4598191.6/43

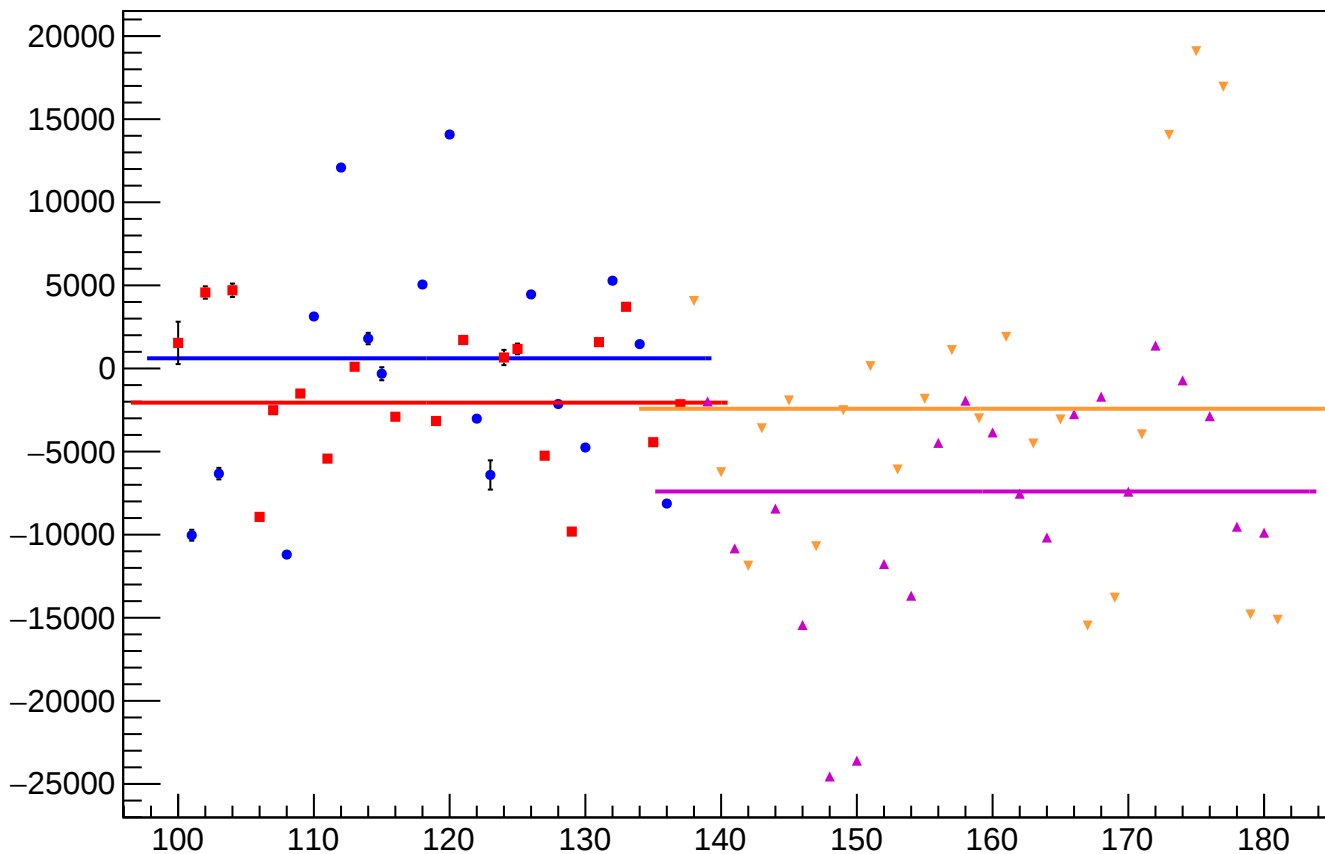
Right: 112.161+/-0.023 χ^2/NDF : 1445660.4/35

In: 130.854+/-0.020 χ^2/NDF : 3387895.8/37

Out: 129.970+/-0.020 χ^2/NDF : 3710193.6/41

All: 130.395+/-0.014 χ^2/NDF : 7099066.8/79

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 610.939 ± 56.154 $\chi^2/\text{NDF}: 18248.2/16$

Left Out: -2425.151 ± 40.178 $\chi^2/\text{NDF}: 42707.6/22$

Right Out: -2057.548 ± 53.904 $\chi^2/\text{NDF}: 4649.5/18$

Left In: -7402.384 ± 42.522 $\chi^2/\text{NDF}: 19367.0/20$

Left: -4772.812 ± 29.204 $\chi^2/\text{NDF}: 69313.1/43$

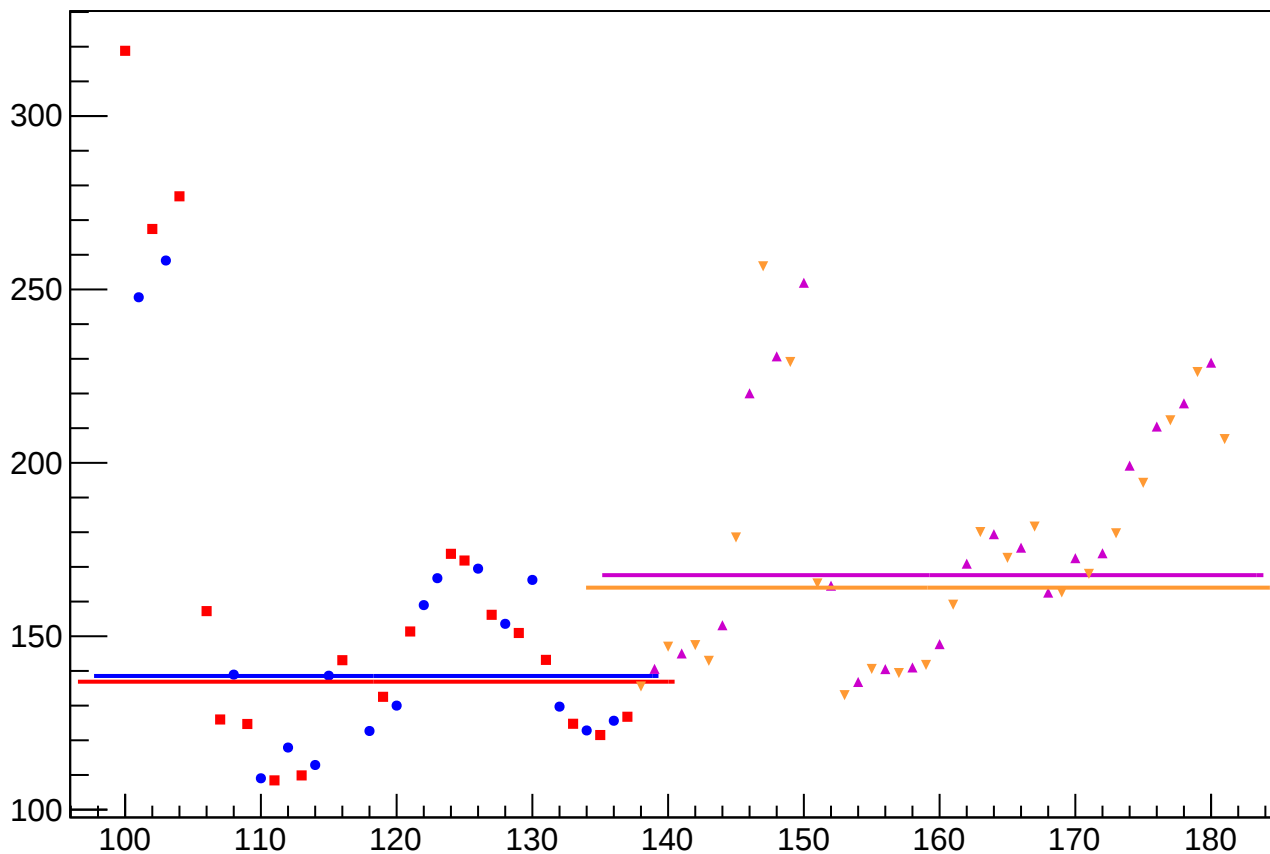
Right: -777.832 ± 38.887 $\chi^2/\text{NDF}: 24073.0/35$

In: -4482.004 ± 33.899 $\chi^2/\text{NDF}: 50557.9/37$

Out: -2293.862 ± 32.214 $\chi^2/\text{NDF}: 47387.1/41$

All: -3332.188 ± 23.352 $\chi^2/\text{NDF}: 100134.3/77$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 138.549 $\pm$ 0.040 χ^2 /NDF: 667663.4/16

Left Out: 164.016 $\pm$ 0.028 χ^2 /NDF:1033909.6/22

Right Out: 136.895 $\pm$ 0.038 χ^2 /NDF: 751443.4/18

Left In: 167.619 $\pm$ 0.030 χ^2 /NDF:1048972.7/20

Left: 165.716 $\pm$ 0.021 χ^2 /NDF: 2090466.5/43

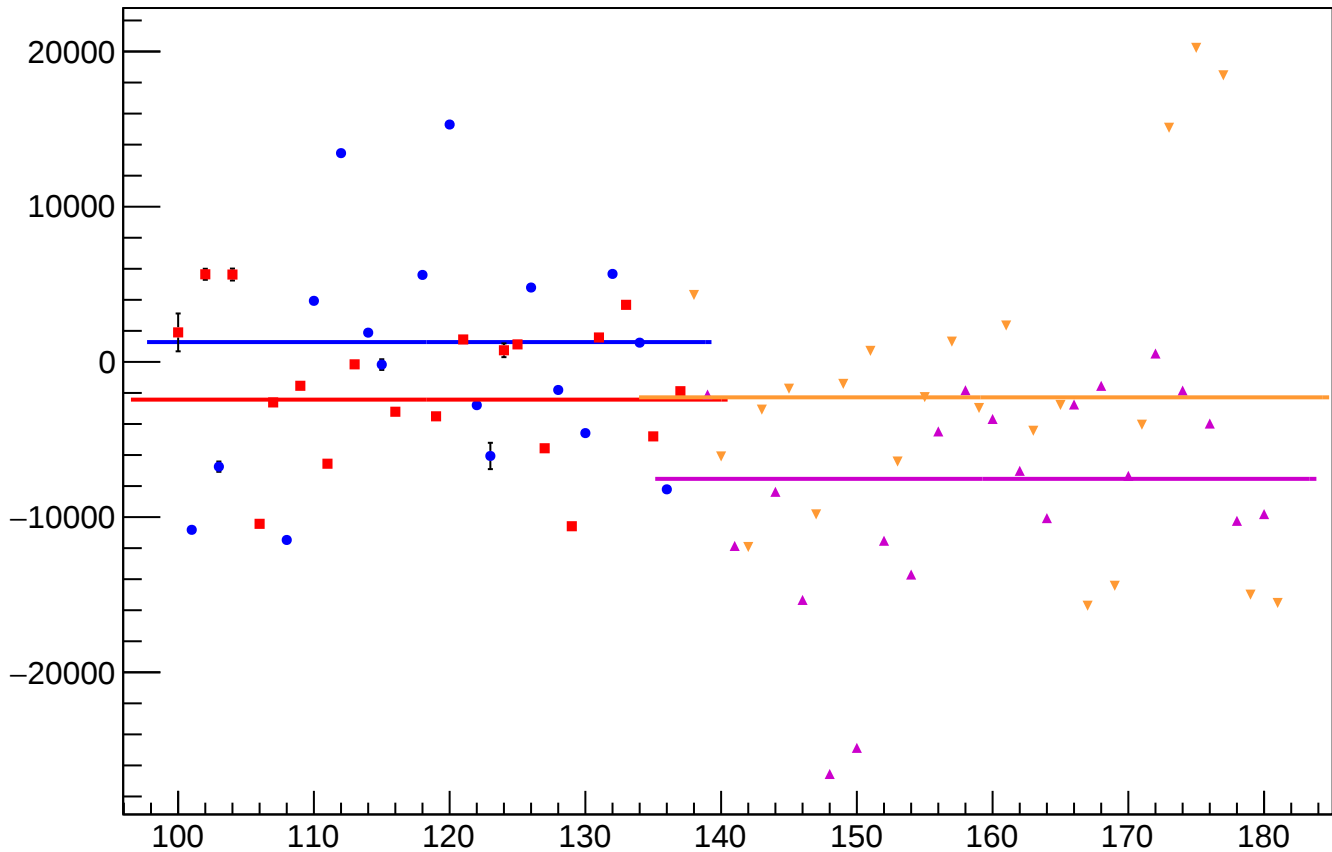
Right: 137.688 $\pm$ 0.027 χ^2 /NDF: 1420010.0/35

In: 157.025 $\pm$ 0.024 χ^2 /NDF:2057284.9/37

Out: 154.330 $\pm$ 0.023 χ^2 /NDF:2110829.9/41

All: 155.609 $\pm$ 0.017 χ^2 /NDF: 4174755.5/79

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1277.751+/-46.646 χ^2/NDF : 30549.2/16

Left Out: -2283.318+/-36.342 χ^2/NDF : 52854.4/22

Right Out: -2430.297+/-44.264 χ^2/NDF : 7696.9/18

Left In: -7535.362+/-38.569 χ^2/NDF : 24076.1/20

Left: -4753.342+/-26.450 χ^2/NDF : 86752.7/43

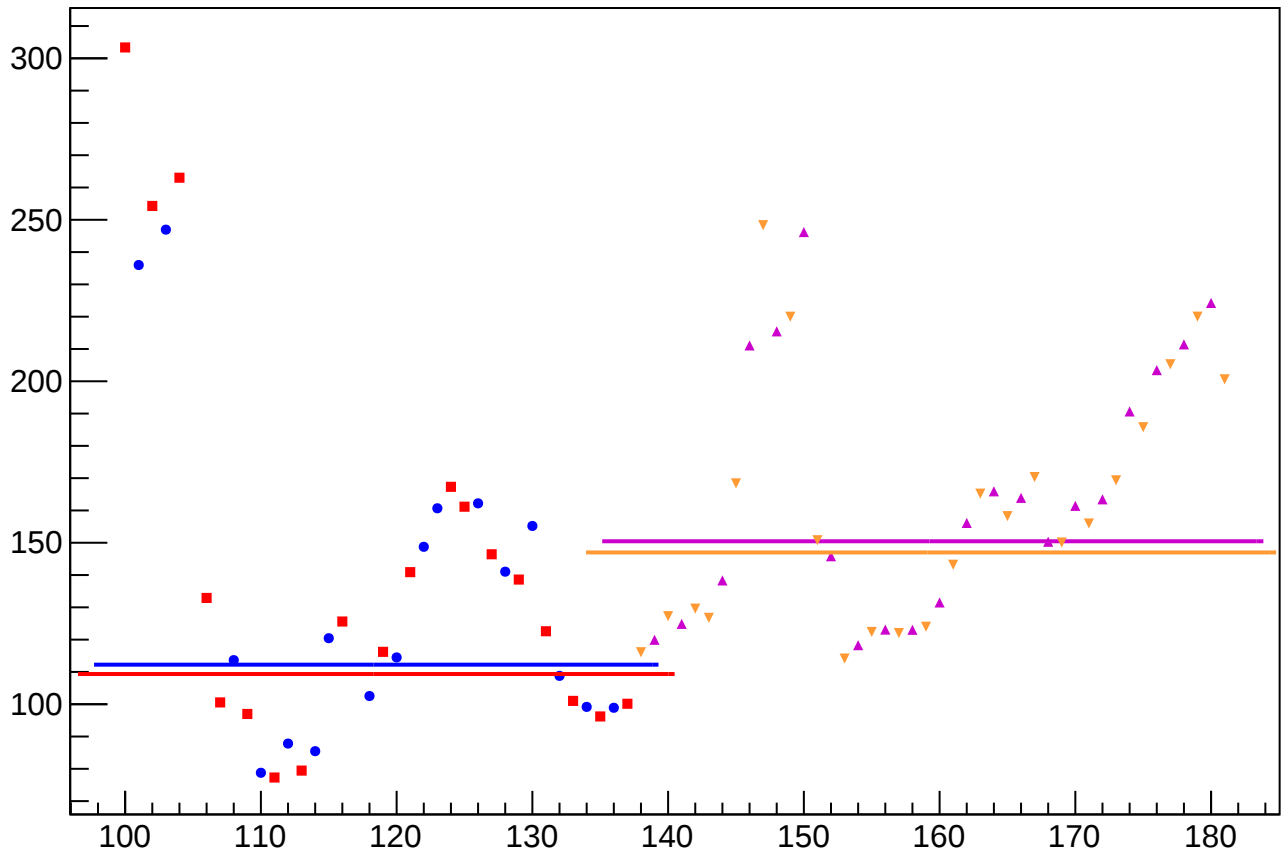
Right: -673.335+/-32.109 χ^2/NDF : 41571.1/35

In: -3956.669+/-29.724 χ^2/NDF : 75827.1/37

Out: -2342.500+/-28.088 χ^2/NDF : 60557.9/41

All: -3103.941+/-20.415 χ^2/NDF : 137942.9/77

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 112.247 $\pm$ 0.033 χ^2 /NDF: 1123602.1/16

Left Out: 146.997 $\pm$ 0.026 χ^2 /NDF: 1529833.9/22

Right Out: 109.351 $\pm$ 0.031 χ^2 /NDF: 1263029.6/18

Left In: 150.459 $\pm$ 0.027 χ^2 /NDF: 1528658.3/20

Left: 148.625 $\pm$ 0.019 χ^2 /NDF: 3067031.3/43

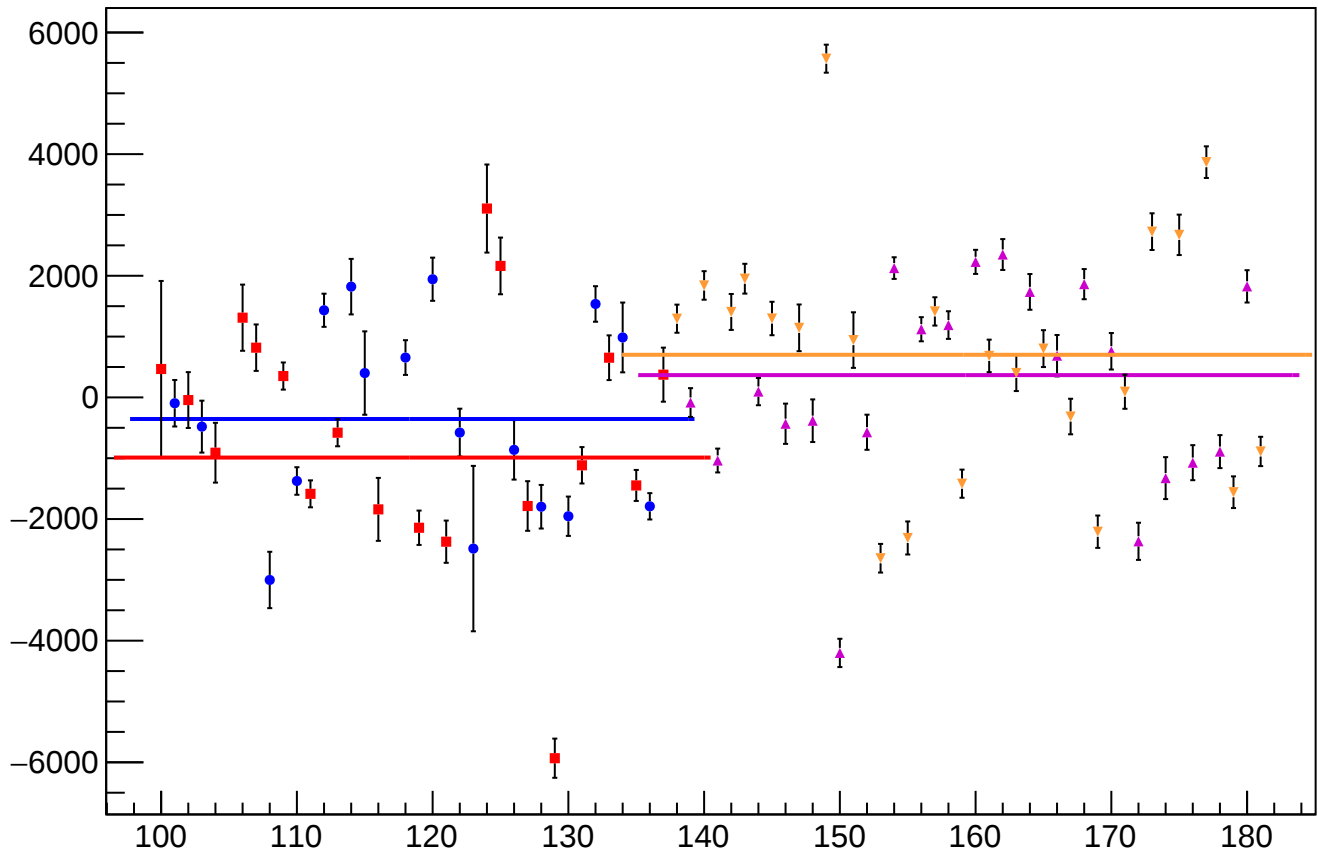
Right: 110.723 $\pm$ 0.023 χ^2 /NDF: 2390689.7/35

In: 134.943 $\pm$ 0.021 χ^2 /NDF: 3449419.8/37

Out: 131.838 $\pm$ 0.020 χ^2 /NDF: 3656995.4/41

All: 133.303 $\pm$ 0.014 χ^2 /NDF: 7117940.9/79

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -354.938 ± 84.016 χ^2/NDF : 310.6/16

Left Out: 700.886 ± 56.003 χ^2/NDF : 1417.5/22

Right Out: -989.192 ± 77.653 χ^2/NDF : 477.2/18

Left In: 366.438 ± 54.605 χ^2/NDF : 979.2/20

Left: 529.436 ± 39.097 χ^2/NDF : 2415.0/43

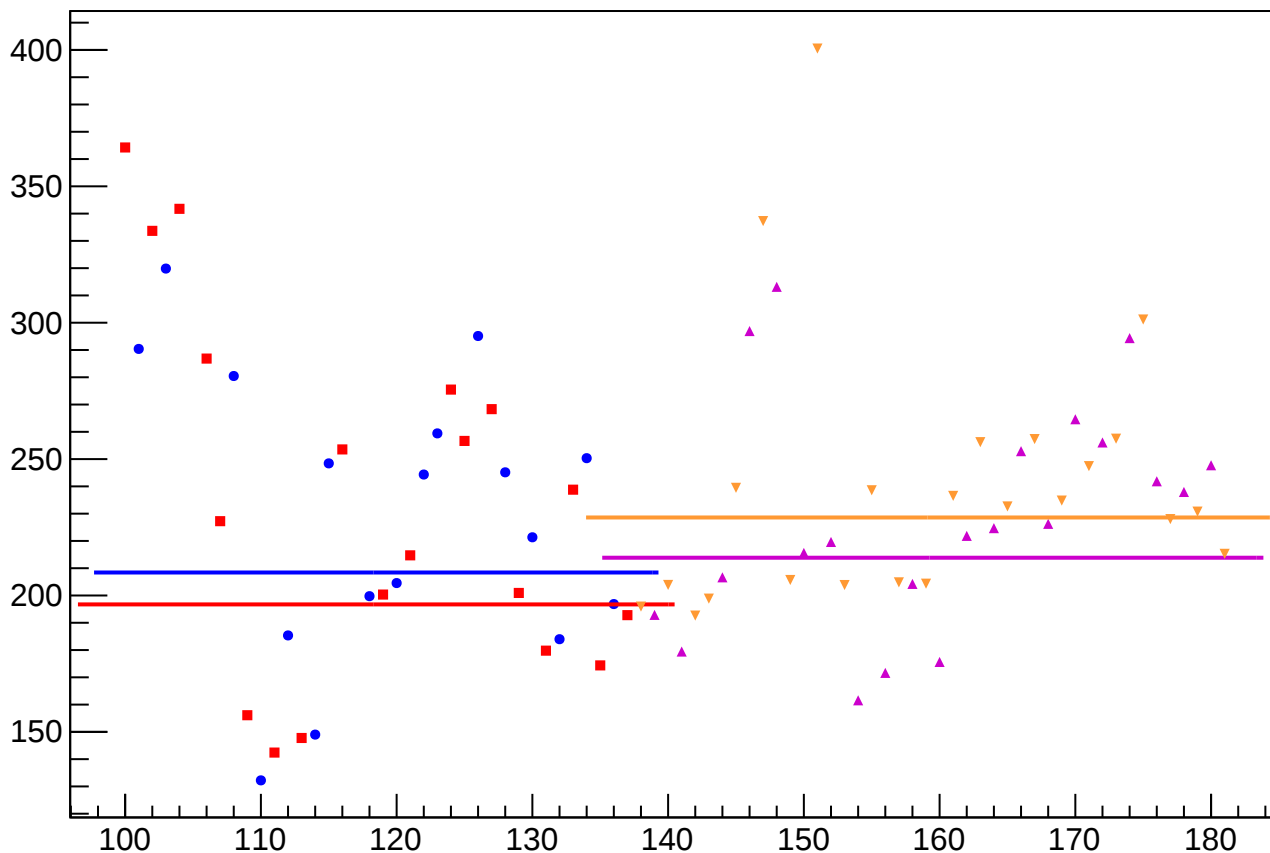
Right: -696.988 ± 57.026 χ^2/NDF : 818.5/35

In: 152.207 ± 45.785 χ^2/NDF : 1341.6/37

Out: 122.608 ± 45.423 χ^2/NDF : 2206.3/41

All: 137.290 ± 32.246 χ^2/NDF : 3548.1/79

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.429+/-0.059 χ^2/NDF : 696957.4/16

Left Out: 228.598+/-0.040 χ^2/NDF : 823938.6/22

Right Out: 196.731+/-0.055 χ^2/NDF : 925461.3/18

Left In: 213.846+/-0.039 χ^2/NDF : 1016003.1/20

Left: 221.036+/-0.028 χ^2/NDF : 1911089.5/43

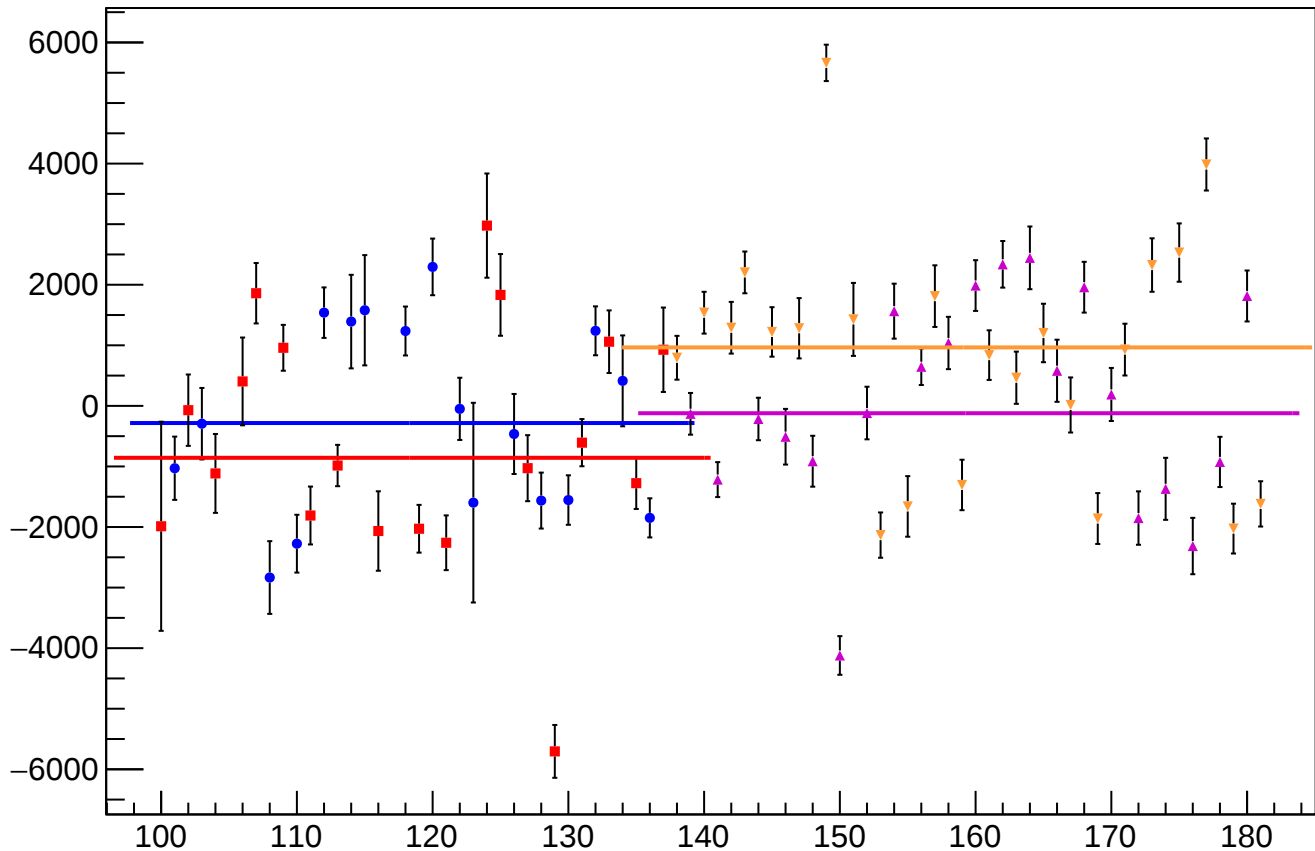
Right: 202.120+/-0.040 χ^2/NDF : 1643330.9/35

In: 212.237+/-0.032 χ^2/NDF : 1718804.5/37

Out: 217.694+/-0.032 χ^2/NDF : 1970983.8/41

All: 214.987+/-0.023 χ^2/NDF : 3704109.2/79

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -283.146+/-121.564 χ^2/NDF : 166.9/16

Left Out: 965.319+/-86.353 χ^2/NDF : 612.4/22

Right Out: -857.162+/-115.341 χ^2/NDF : 265.0/18

Left In: -121.252+/-87.281 χ^2/NDF : 389.6/20

Left: 427.840+/-61.386 χ^2/NDF : 1080.3/43

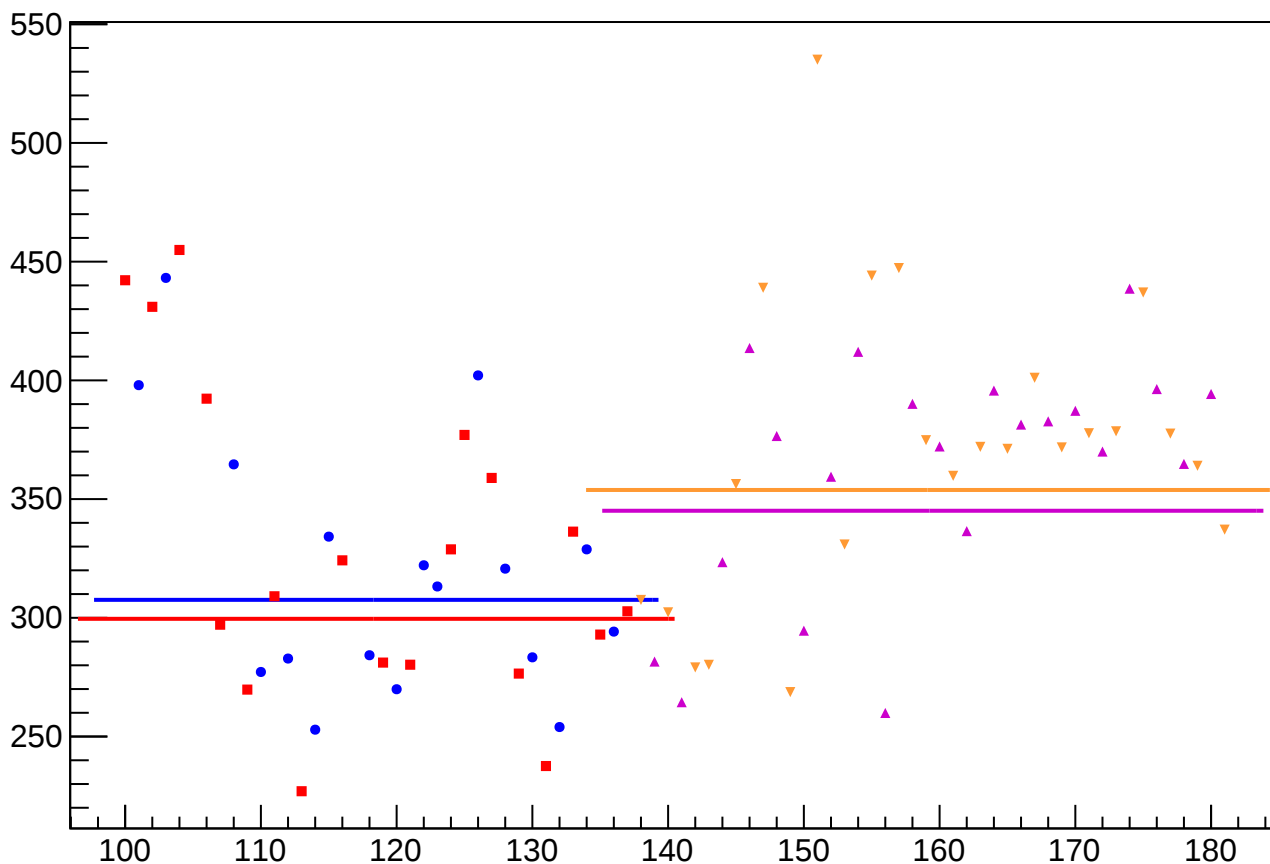
Right: -585.220+/-83.672 χ^2/NDF : 443.7/35

In: -176.321+/-70.899 χ^2/NDF : 557.7/37

Out: 310.712+/-69.126 χ^2/NDF : 1037.4/41

All: 73.360+/-49.495 χ^2/NDF : 1619.3/79

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 307.566 ± 0.086 χ^2/NDF : 321522.0/16

Left Out: 353.841 ± 0.061 χ^2/NDF : 890445.6/22

Right Out: 299.577 ± 0.082 χ^2/NDF : 493549.3/18

Left In: 345.087 ± 0.062 χ^2/NDF : 767433.3/20

Left: 349.511 ± 0.043 χ^2/NDF : 1668043.9/43

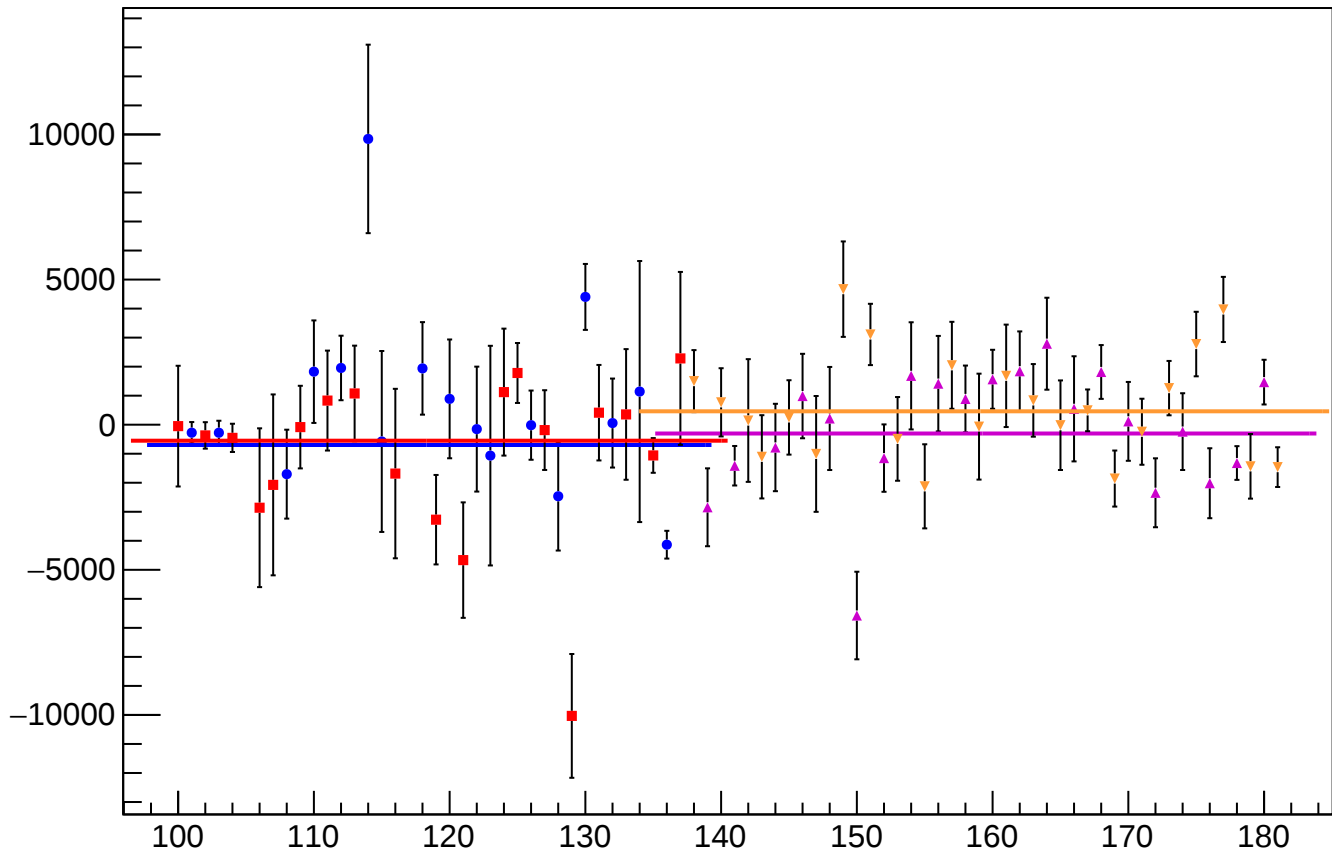
Right: 303.362 ± 0.059 χ^2/NDF : 819617.4/35

In: 332.324 ± 0.050 χ^2/NDF : 1214680.0/37

Out: 334.350 ± 0.049 χ^2/NDF : 1667664.5/41

All: 333.363 ± 0.035 χ^2/NDF : 2883181.2/79

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -699.406 $\pm$ 210.504 χ^2 /NDF: 97.9/16

Left Out: 461.232 $\pm$ 242.651 χ^2 /NDF:52.9/22

Right Out: -551.457 $\pm$ 243.420 χ^2 /NDF: 38.1/18

Left In: -303.632 $\pm$ 242.003 χ^2 /NDF:56.9/20

Left: 77.778 $\pm$ 171.351 χ^2 /NDF: 114.8/43

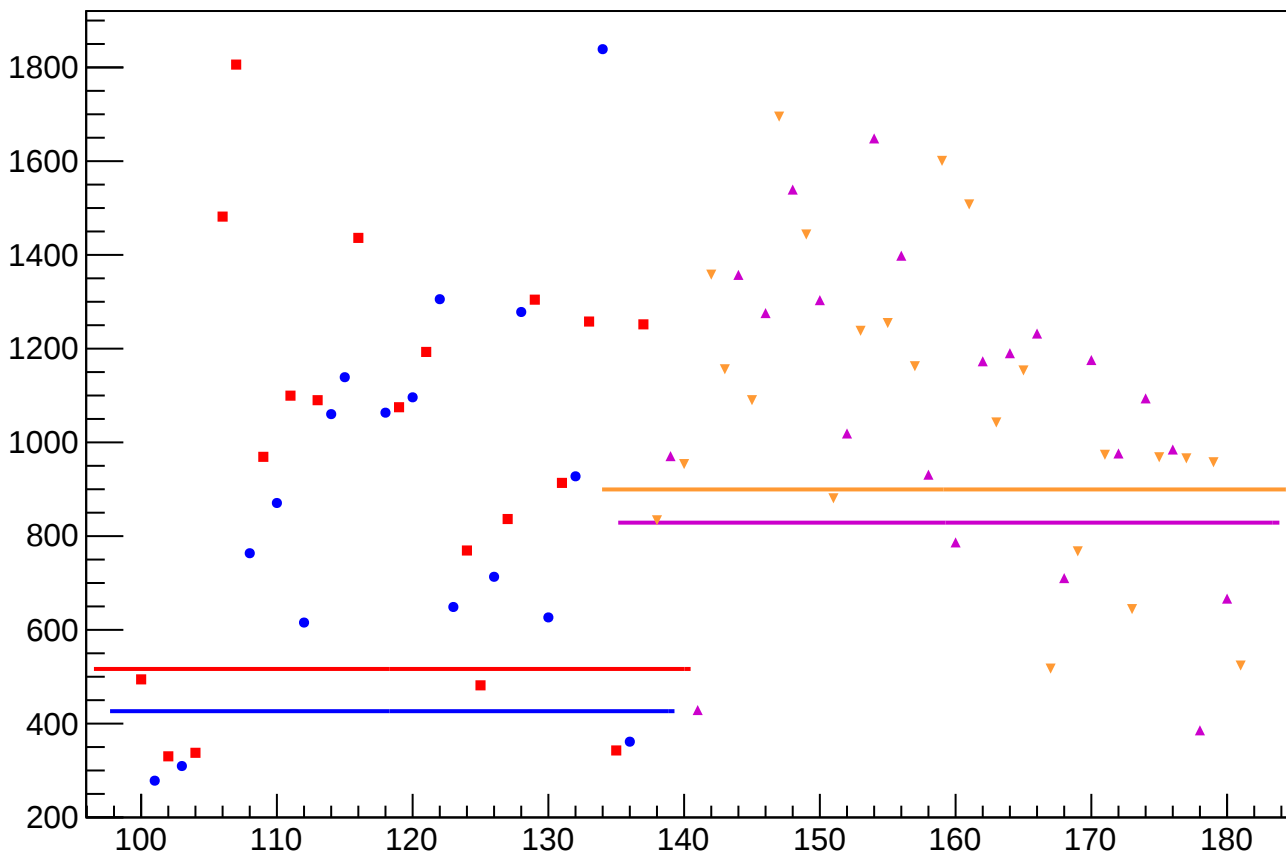
Right: -636.104 $\pm$ 159.224 χ^2 /NDF: 136.3/35

In: -528.937 $\pm$ 158.826 χ^2 /NDF:156.3/37

Out: -43.510 $\pm$ 171.852 χ^2 /NDF:99.7/41

All: -305.315 $\pm$ 116.640 χ^2 /NDF: 260.3/79

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 426.522 $\pm$ 0.149 χ^2 /NDF: 2863074.2/16

Left Out: 899.590 $\pm$ 0.172 χ^2 /NDF: 3038269.1/22

Right Out: 516.598 $\pm$ 0.172 χ^2 /NDF: 3598022.9/18

Left In: 828.747 $\pm$ 0.171 χ^2 /NDF: 4263743.7/20

Left: 864.074 $\pm$ 0.121 χ^2 /NDF: 7387476.2/43

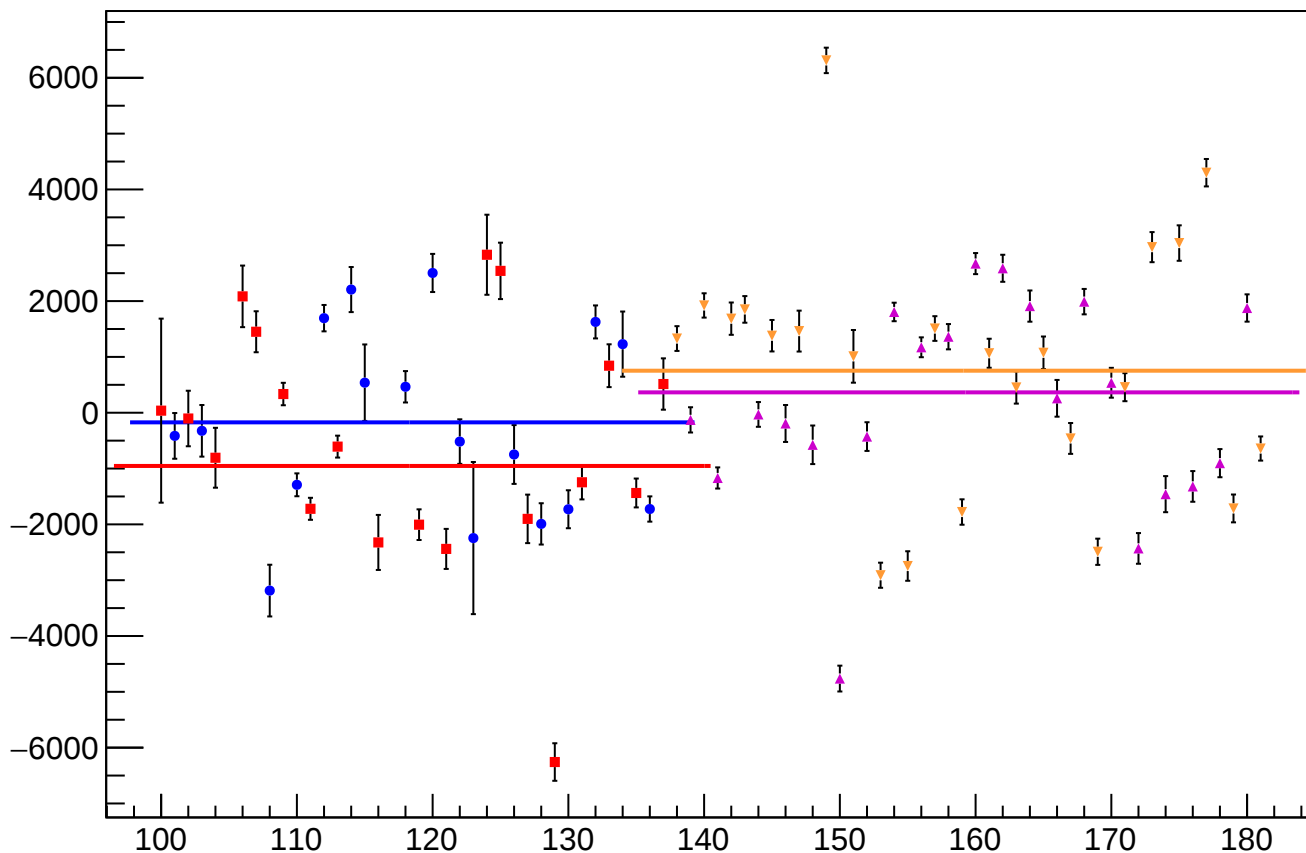
Right: 465.062 $\pm$ 0.113 χ^2 /NDF: 6617785.8/35

In: 599.770 $\pm$ 0.112 χ^2 /NDF: 10272025.1/37

Out: 708.700 $\pm$ 0.122 χ^2 /NDF: 9119637.7/41

All: 649.951 $\pm$ 0.082 χ^2 /NDF: 19825043.0/79

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Left: 552.530 ± 37.085 χ^2/NDF : 3207.2/43

Right: -599.765 ± 55.551 χ^2/NDF : 966.7/35

In: 213.729 ± 43.766 χ^2/NDF : 1658.4/37

Out: 181.086 ± 43.475 χ^2/NDF : 2812.9/41

All: 197.299 ± 30.844 χ^2/NDF : 4471.5/79

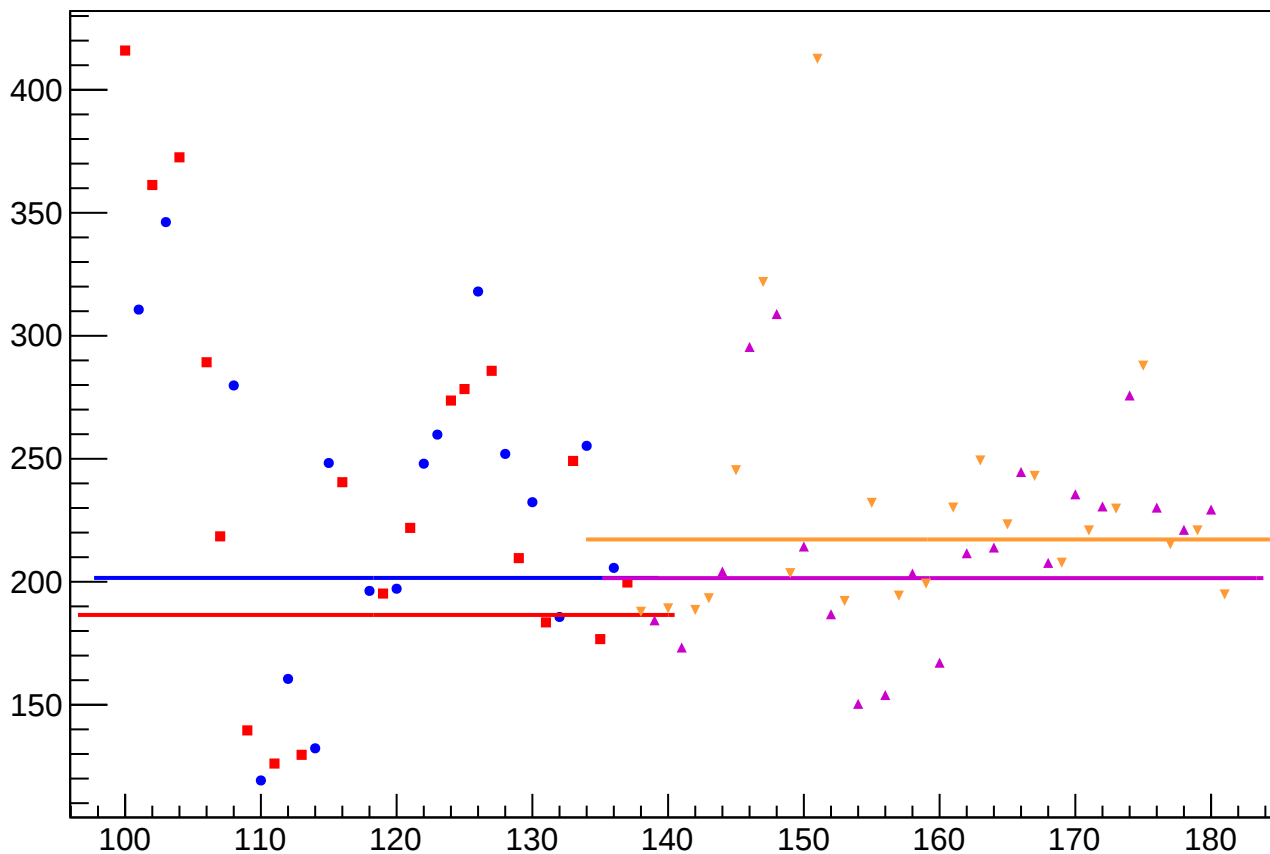
Right In: -172.521 ± 82.544 χ^2/NDF : 376.5/16

Left Out: 752.839 ± 53.316 χ^2/NDF : 1928.5/22

Right Out: -953.457 ± 75.104 χ^2/NDF : 541.2/18

Left In: 364.772 ± 51.618 χ^2/NDF : 1251.4/20

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 201.572 $\pm$ 0.058 χ^2 /NDF: 1052330.1/16

Left Out: 217.205 $\pm$ 0.038 χ^2 /NDF:882780.1/22

Right Out: 186.520 $\pm$ 0.053 χ^2 /NDF: 1388400.1/18

Left In: 201.491 $\pm$ 0.036 χ^2 /NDF:1085941.3/20

Left: 209.094 $\pm$ 0.026 χ^2 /NDF: 2058402.9/43

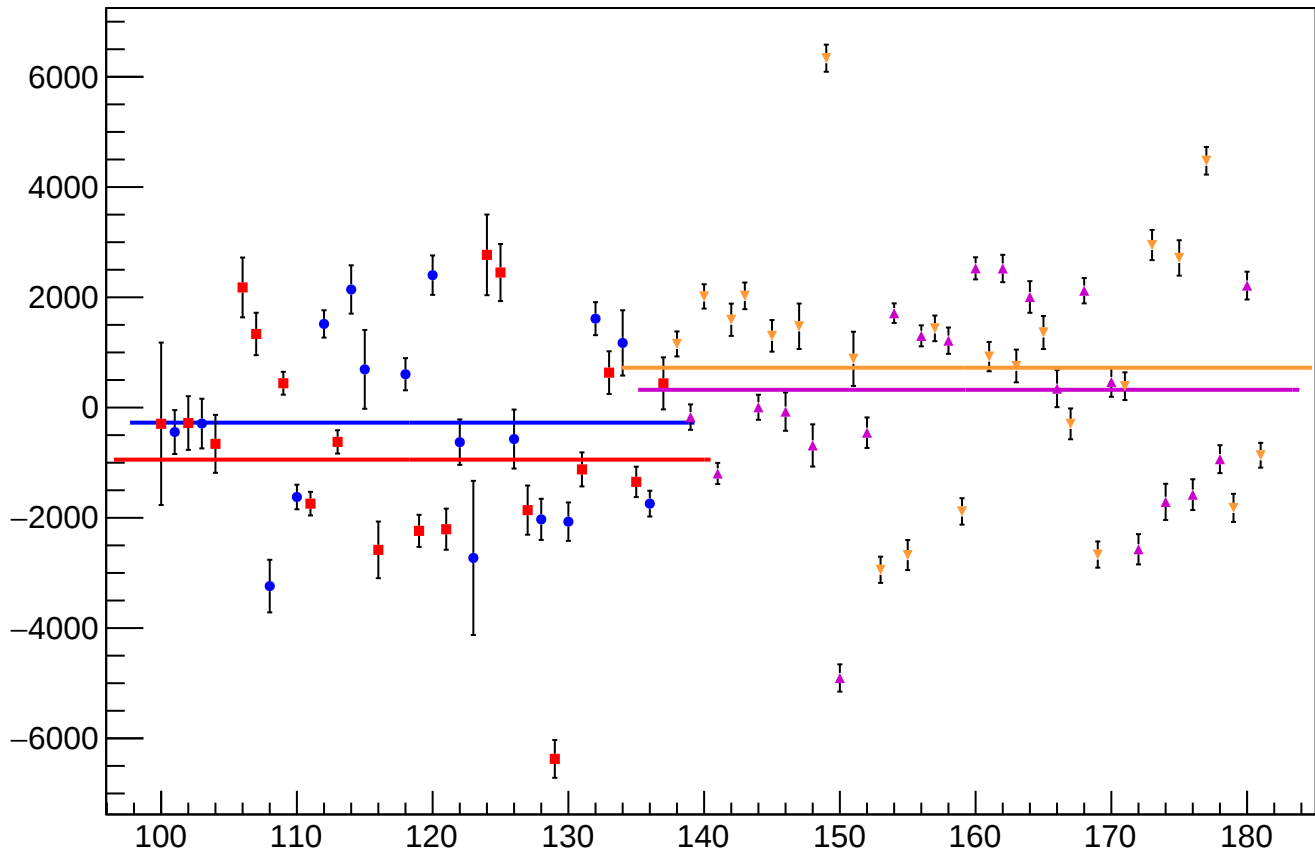
Right: 193.337 $\pm$ 0.039 χ^2 /NDF: 2477113.4/35

In: 201.514 $\pm$ 0.031 χ^2 /NDF:2138272.8/37

Out: 206.923 $\pm$ 0.031 χ^2 /NDF:2493170.9/41

All: 204.236 $\pm$ 0.022 χ^2 /NDF: 4646822.1/79

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -273.296 ± 85.630 $\chi^2/\text{NDF}: 362.8/16$

Left Out: 722.905 ± 54.904 $\chi^2/\text{NDF}: 1828.2/22$

Right Out: -944.335 ± 78.399 $\chi^2/\text{NDF}: 524.4/18$

Left In: 322.599 ± 53.584 $\chi^2/\text{NDF}: 1205.3/20$

Left: 517.884 ± 38.348 $\chi^2/\text{NDF}: 3060.7/43$

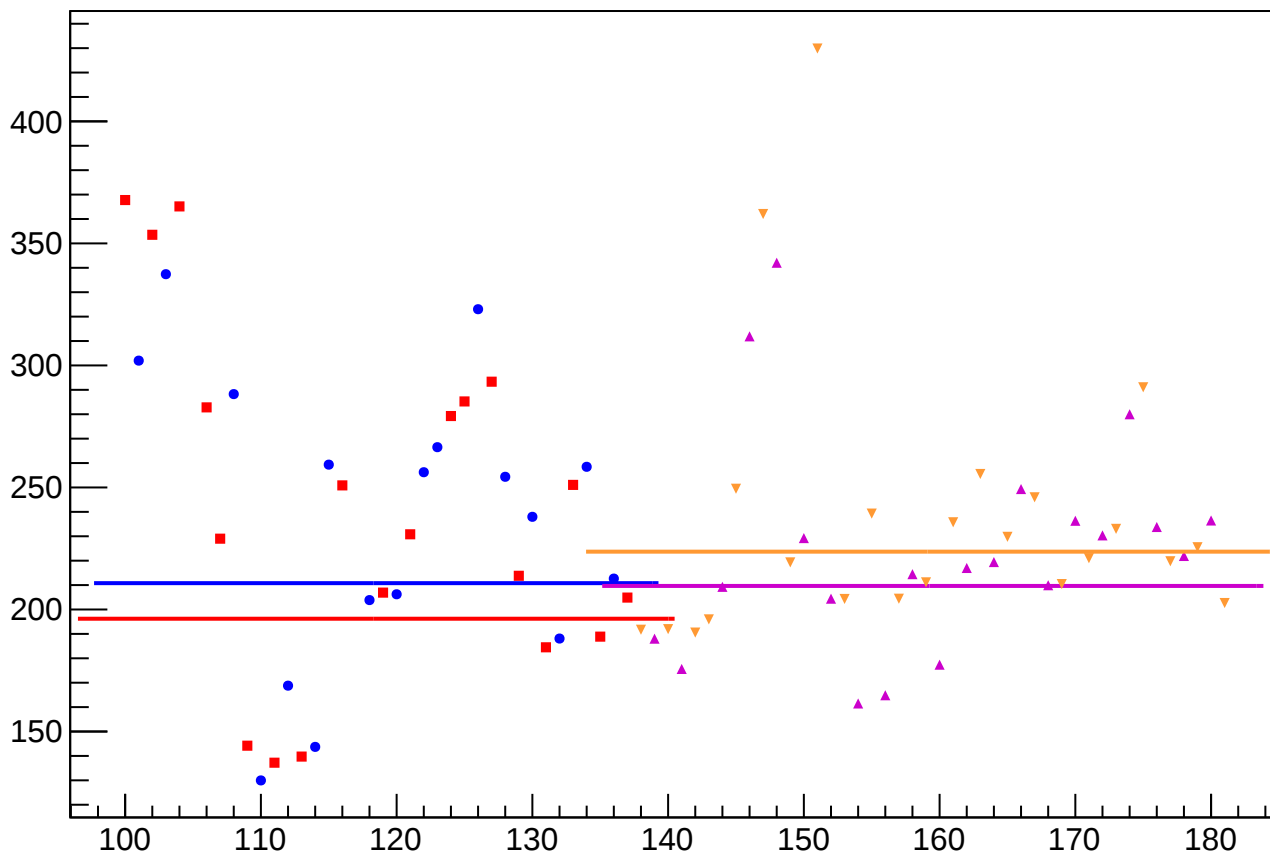
Right: -638.342 ± 57.824 $\chi^2/\text{NDF}: 920.6/35$

In: 154.918 ± 45.424 $\chi^2/\text{NDF}: 1602.8/37$

Out: 174.284 ± 44.972 $\chi^2/\text{NDF}: 2656.0/41$

All: 164.698 ± 31.959 $\chi^2/\text{NDF}: 4259.0/79$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 210.791+/-0.061 χ^2/NDF : 873120.0/16

Left Out: 223.696+/-0.039 χ^2/NDF : 922092.9/22

Right Out: 196.216+/-0.055 χ^2/NDF : 1201600.7/18

Left In: 209.650+/-0.038 χ^2/NDF : 1013078.0/20

Left: 216.503+/-0.027 χ^2/NDF : 2002209.8/43

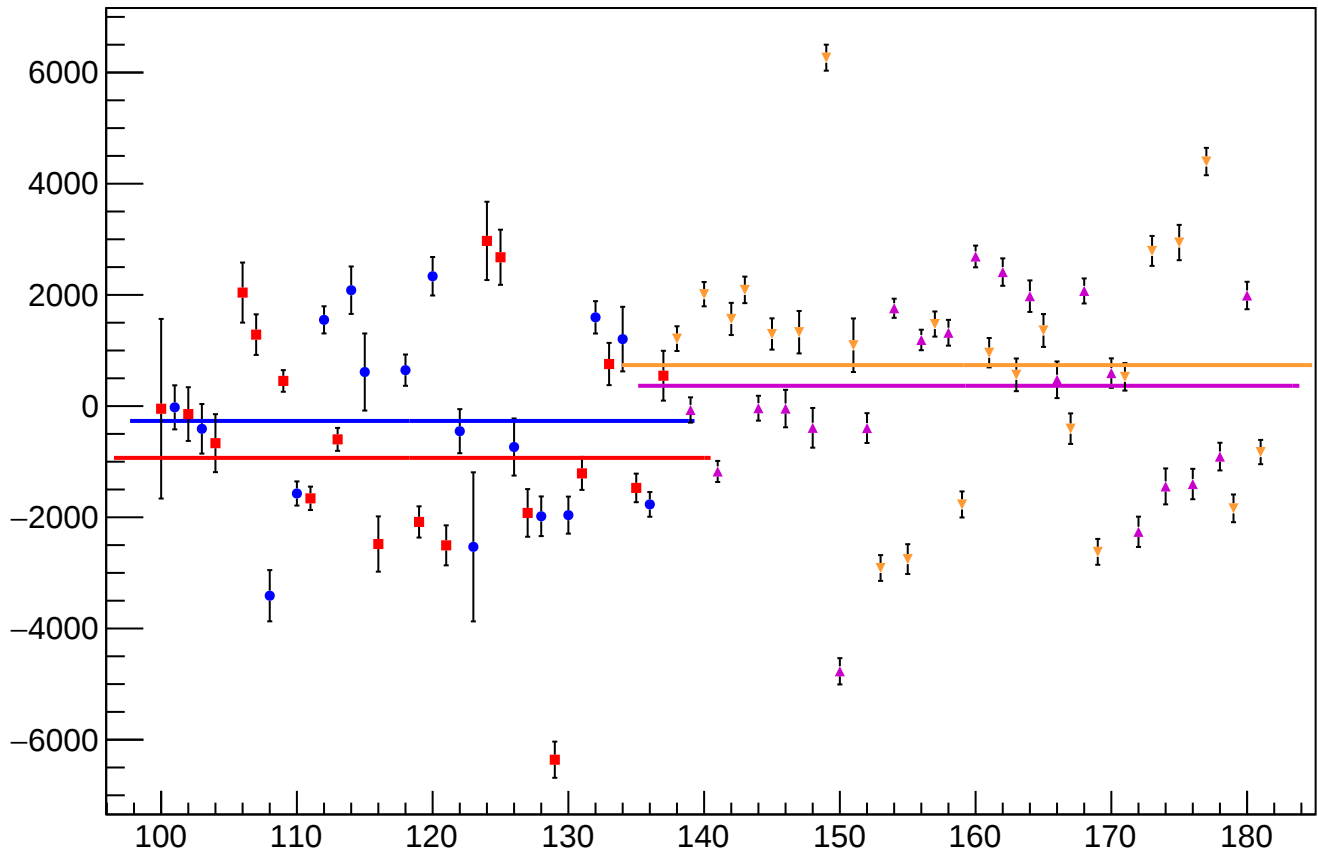
Right: 202.862+/-0.041 χ^2/NDF : 2106241.2/35

In: 209.971+/-0.032 χ^2/NDF : 1886453.0/37

Out: 214.654+/-0.032 χ^2/NDF : 2288561.4/41

All: 212.336+/-0.023 χ^2/NDF : 4185746.0/79

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -266.674 ± 82.997 χ^2/NDF : 383.4/16

Left Out: 737.416 ± 53.788 χ^2/NDF : 1903.9/22

Right Out: -931.196 ± 75.469 χ^2/NDF : 584.4/18

Left In: 365.427 ± 52.378 χ^2/NDF : 1197.8/20

Left: 546.481 ± 37.525 χ^2/NDF : 3126.2/43

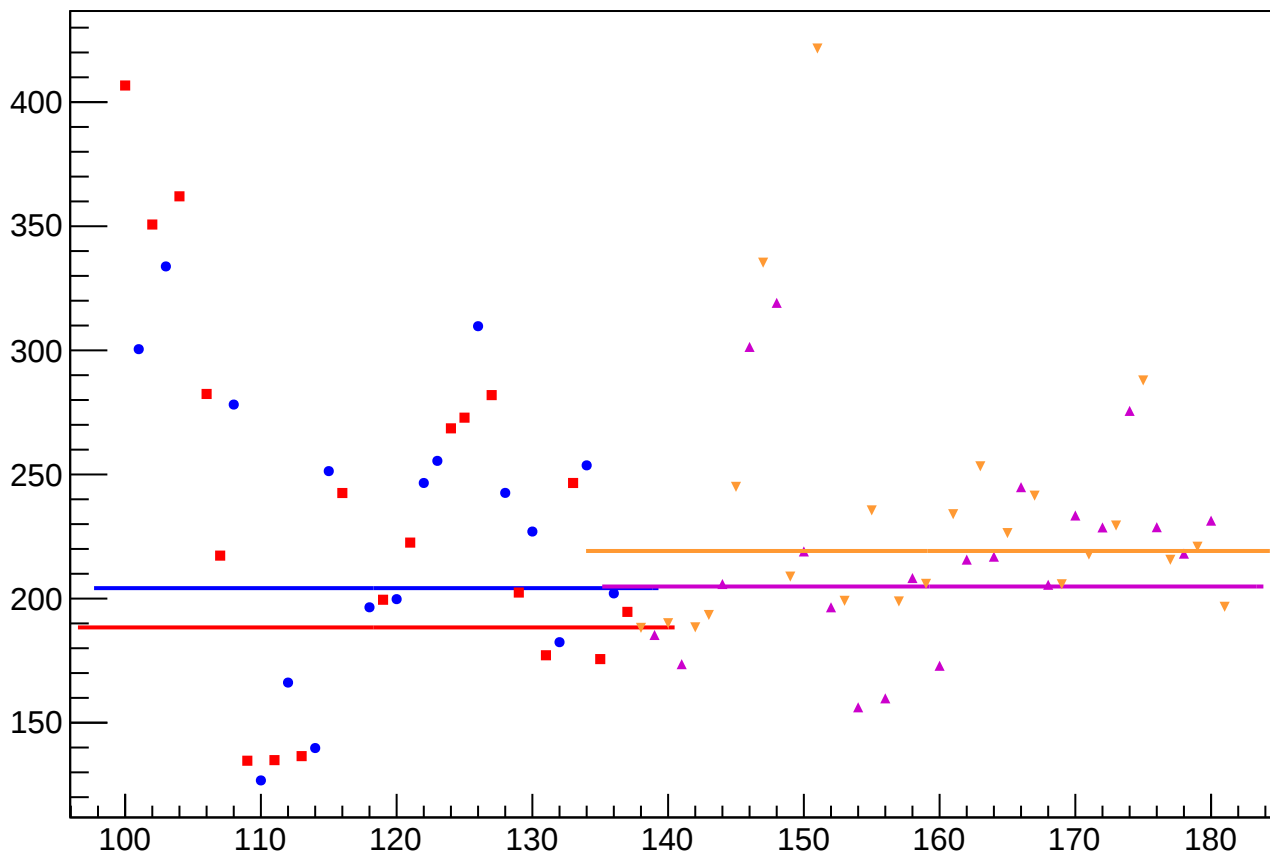
Right: -630.431 ± 55.837 χ^2/NDF : 1002.9/35

In: 185.388 ± 44.295 χ^2/NDF : 1622.7/37

Out: 175.340 ± 43.802 χ^2/NDF : 2812.5/41

All: 180.308 ± 31.145 χ^2/NDF : 4435.2/79

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 204.211+/-0.059 χ^2/NDF : 866108.6/16

Left Out: 219.181+/-0.038 χ^2/NDF : 896155.1/22

Right Out: 188.384+/-0.053 χ^2/NDF : 1247760.0/18

Left In: 204.870+/-0.037 χ^2/NDF : 995379.7/20

Left: 211.835+/-0.027 χ^2/NDF : 1964210.1/43

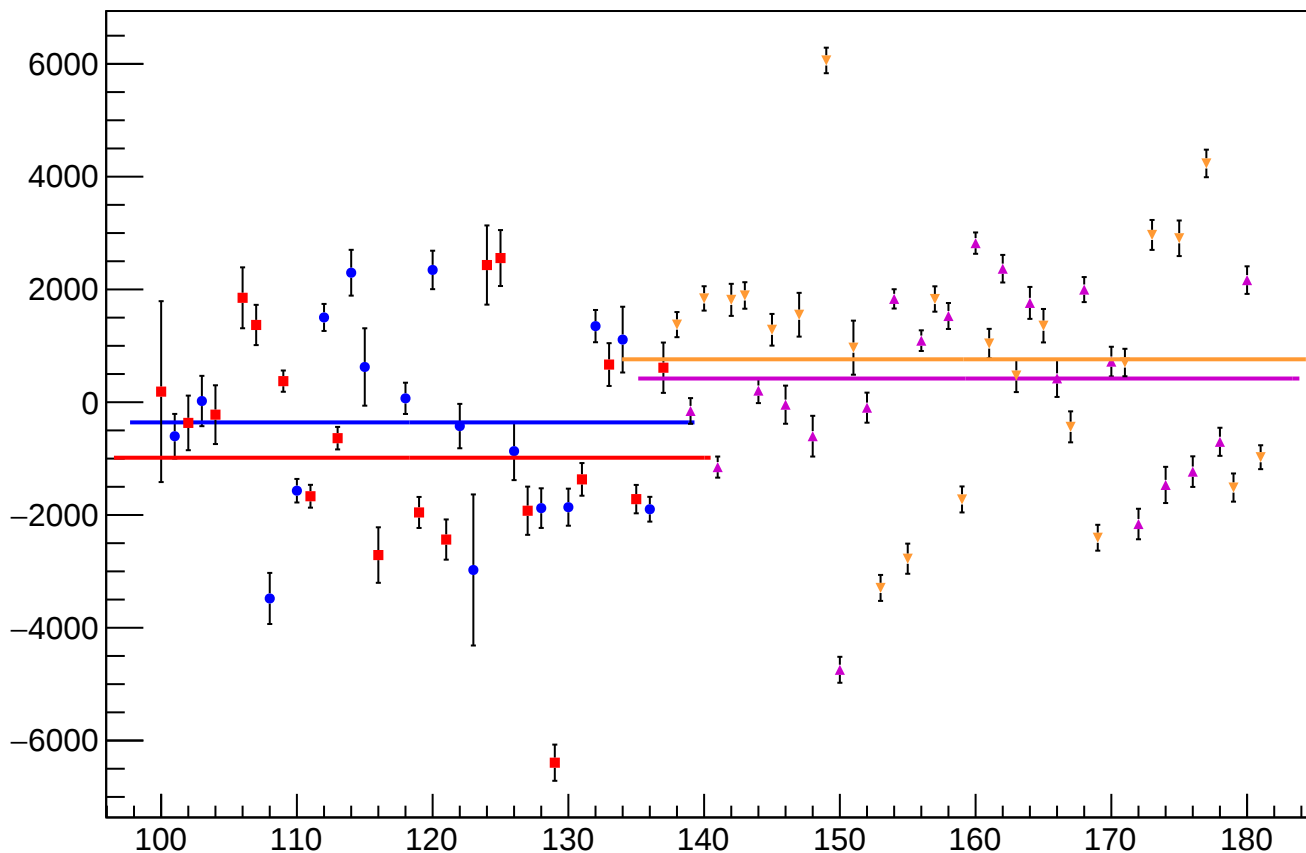
Right: 195.548+/-0.039 χ^2/NDF : 2153679.4/35

In: 204.682+/-0.031 χ^2/NDF : 1861578.3/37

Out: 208.807+/-0.031 χ^2/NDF : 2364773.1/41

All: 206.768+/-0.022 χ^2/NDF : 4235121.1/79

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Left: 586.258 ± 37.171 χ^2/NDF : 3184.8/43

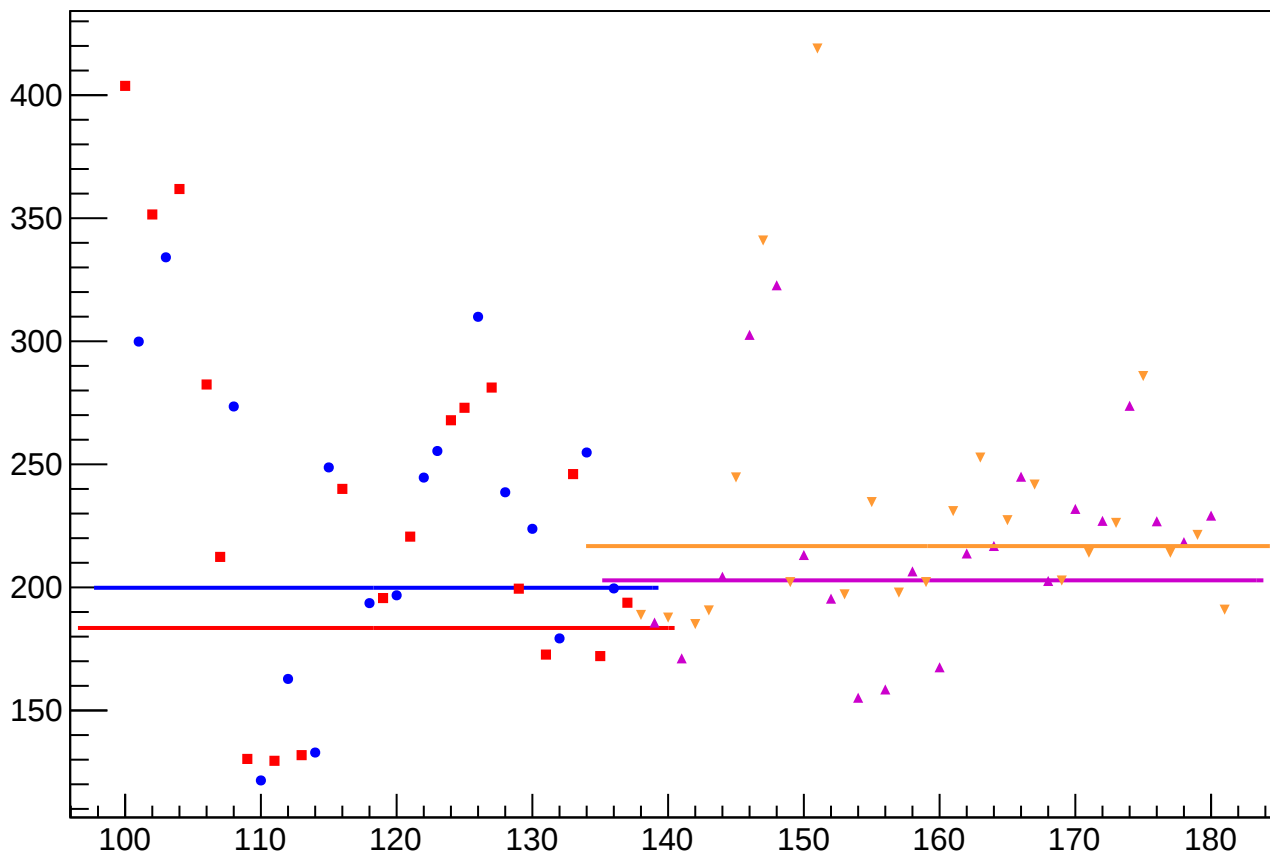
Right: -701.918 ± 54.731 χ^2/NDF : 1008.9/35

In: 195.694 ± 43.786 χ^2/NDF : 1685.4/37

Out: 163.995 ± 43.194 χ^2/NDF : 2887.2/41

All: 179.629 ± 30.750 χ^2/NDF : 4572.8/79

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.847 ± 0.058 $\chi^2/\text{NDF}: 940786.8/16$

Left Out: 216.782 ± 0.038 $\chi^2/\text{NDF}: 943119.9/22$

Right Out: 183.513 ± 0.052 $\chi^2/\text{NDF}: 1345883.7/18$

Left In: 202.864 ± 0.037 $\chi^2/\text{NDF}: 1037297.1/20$

Left: 209.645 ± 0.026 $\chi^2/\text{NDF}: 2050476.9/43$

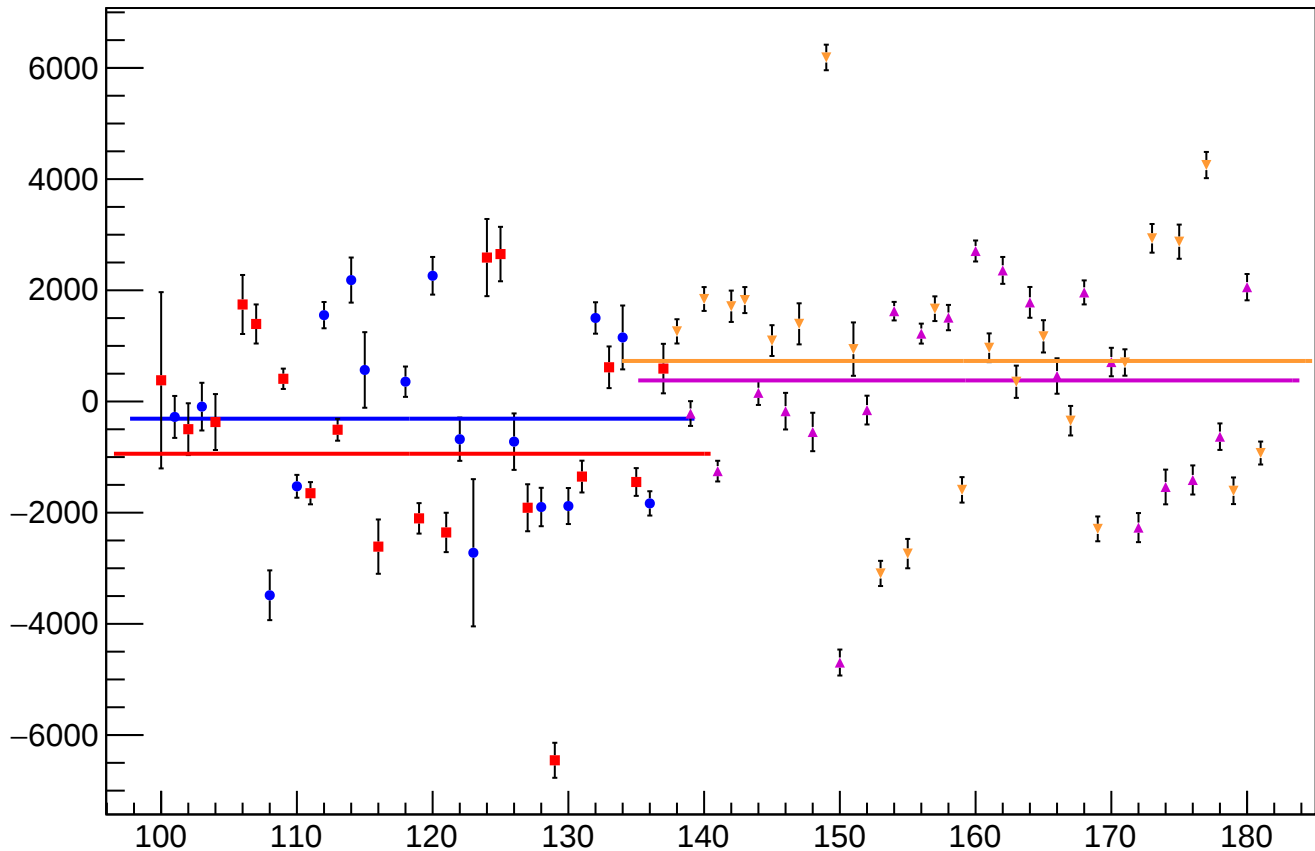
Right: 190.876 ± 0.039 $\chi^2/\text{NDF}: 2330772.3/35$

In: 201.993 ± 0.031 $\chi^2/\text{NDF}: 1980032.4/37$

Out: 205.402 ± 0.031 $\chi^2/\text{NDF}: 2556038.4/41$

All: 203.721 ± 0.022 $\chi^2/\text{NDF}: 4542212.3/79$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -309.418 ± 80.357 χ^2/NDF : 396.4/16

Left Out: 728.950 ± 52.305 χ^2/NDF : 1921.9/22

Right Out: -940.123 ± 72.716 χ^2/NDF : 616.8/18

Left In: 378.779 ± 50.859 χ^2/NDF : 1228.5/20

Left: 548.960 ± 36.463 χ^2/NDF : 3173.4/43

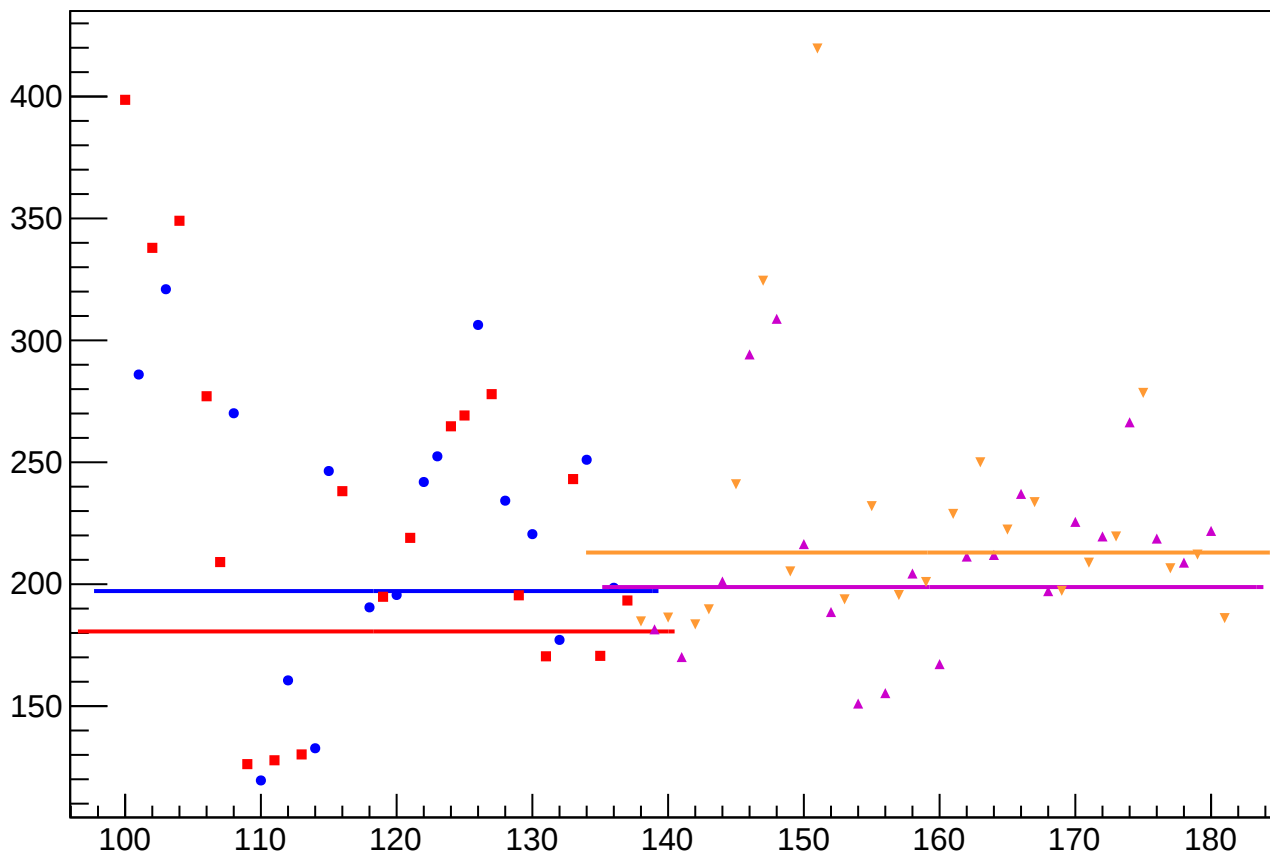
Right: -656.175 ± 53.917 χ^2/NDF : 1047.2/35

In: 181.946 ± 42.975 χ^2/NDF : 1677.3/37

Out: 159.837 ± 42.461 χ^2/NDF : 2885.9/41

All: 170.758 ± 30.205 χ^2/NDF : 4563.4/79

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 197.185+/-0.057 χ^2/NDF : 909929.0/16

Left Out: 212.988+/-0.037 χ^2/NDF : 916515.7/22

Right Out: 180.624+/-0.051 χ^2/NDF : 1341837.4/18

Left In: 198.832+/-0.036 χ^2/NDF : 984401.4/20

Left: 205.712+/-0.026 χ^2/NDF : 1976218.4/43

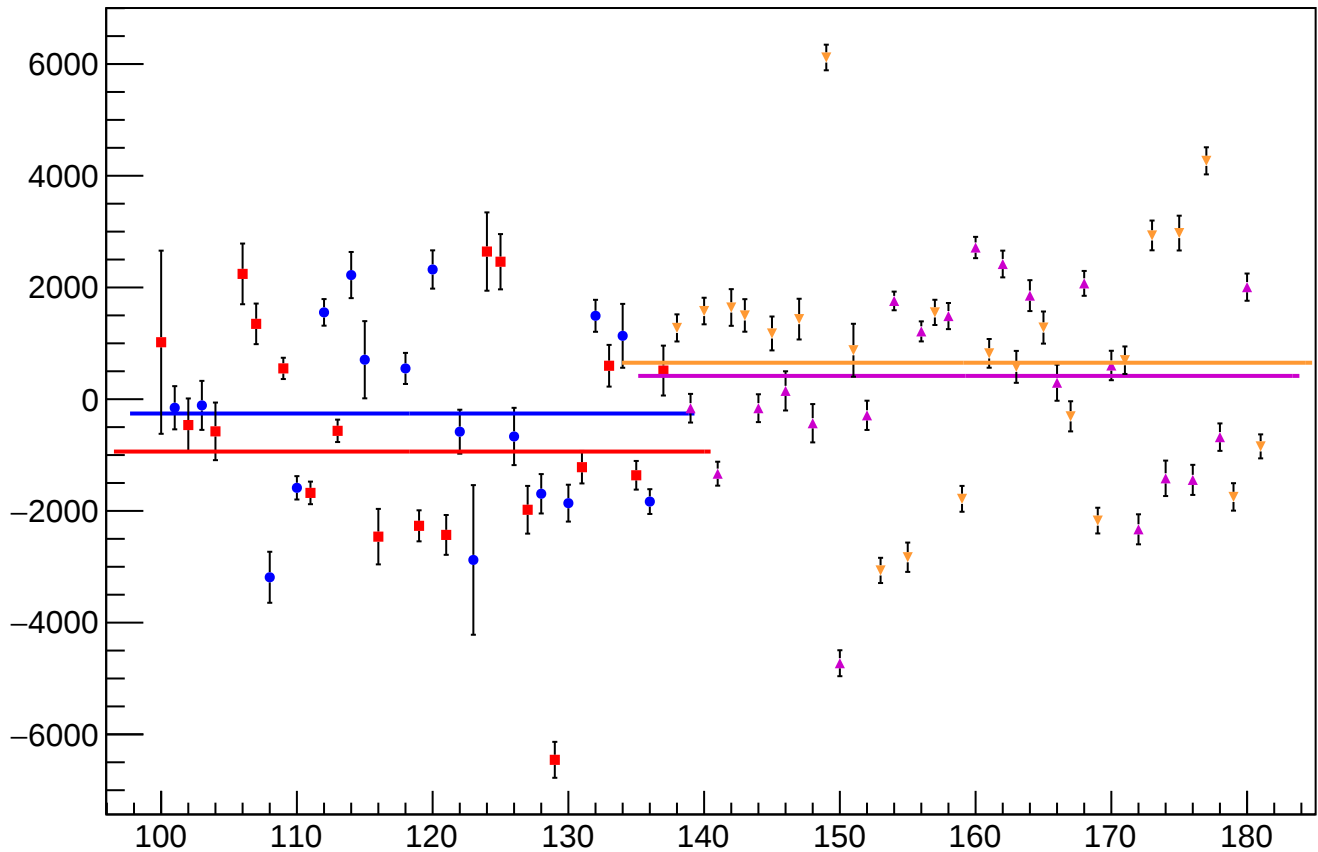
Right: 188.080+/-0.038 χ^2/NDF : 2298467.9/35

In: 198.361+/-0.030 χ^2/NDF : 1894930.2/37

Out: 201.953+/-0.030 χ^2/NDF : 2519440.7/41

All: 200.178+/-0.021 χ^2/NDF : 4421440.8/79

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -256.429+/-81.594 χ^2/NDF : 381.8/16

Left Out: 652.684+/-54.383 χ^2/NDF :1851.7/22

Right Out: -937.482+/-74.168 χ^2/NDF : 609.1/18

Left In: 416.953+/-52.626 χ^2/NDF :1232.4/20

Left: 530.948+/-37.818 χ^2/NDF : 3093.9/43

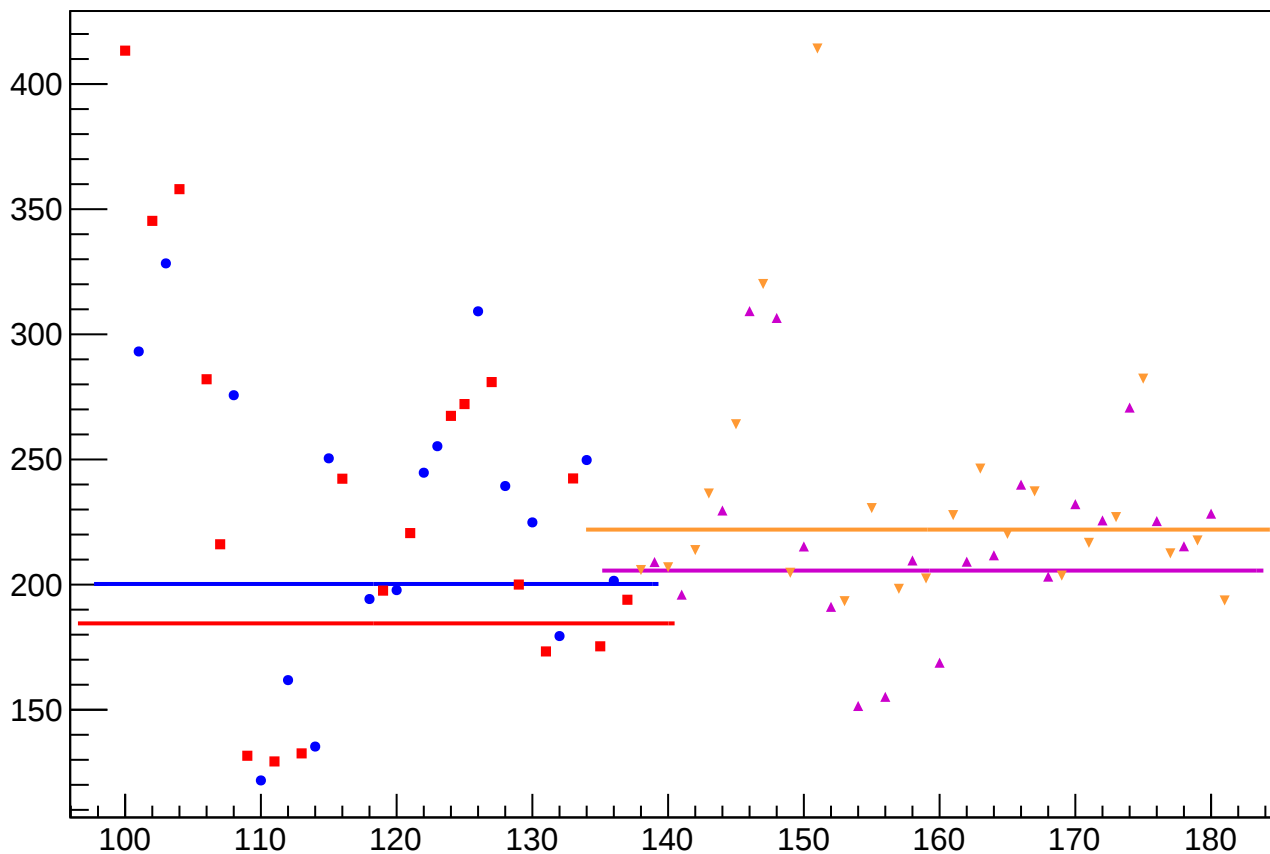
Right: -629.348+/-54.883 χ^2/NDF : 1029.0/35

In: 219.124+/-44.225 χ^2/NDF :1662.4/37

Out: 96.675+/-43.857 χ^2/NDF :2759.7/41

All: 157.388+/-31.141 χ^2/NDF : 4426.0/79

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 200.256+/-0.058 χ^2/NDF : 915910.1/16

Left Out: 221.983+/-0.038 χ^2/NDF : 767409.5/22

Right Out: 184.510+/-0.052 χ^2/NDF : 1314720.9/18

Left In: 205.609+/-0.037 χ^2/NDF : 994438.5/20

Left: 213.527+/-0.027 χ^2/NDF : 1855484.8/43

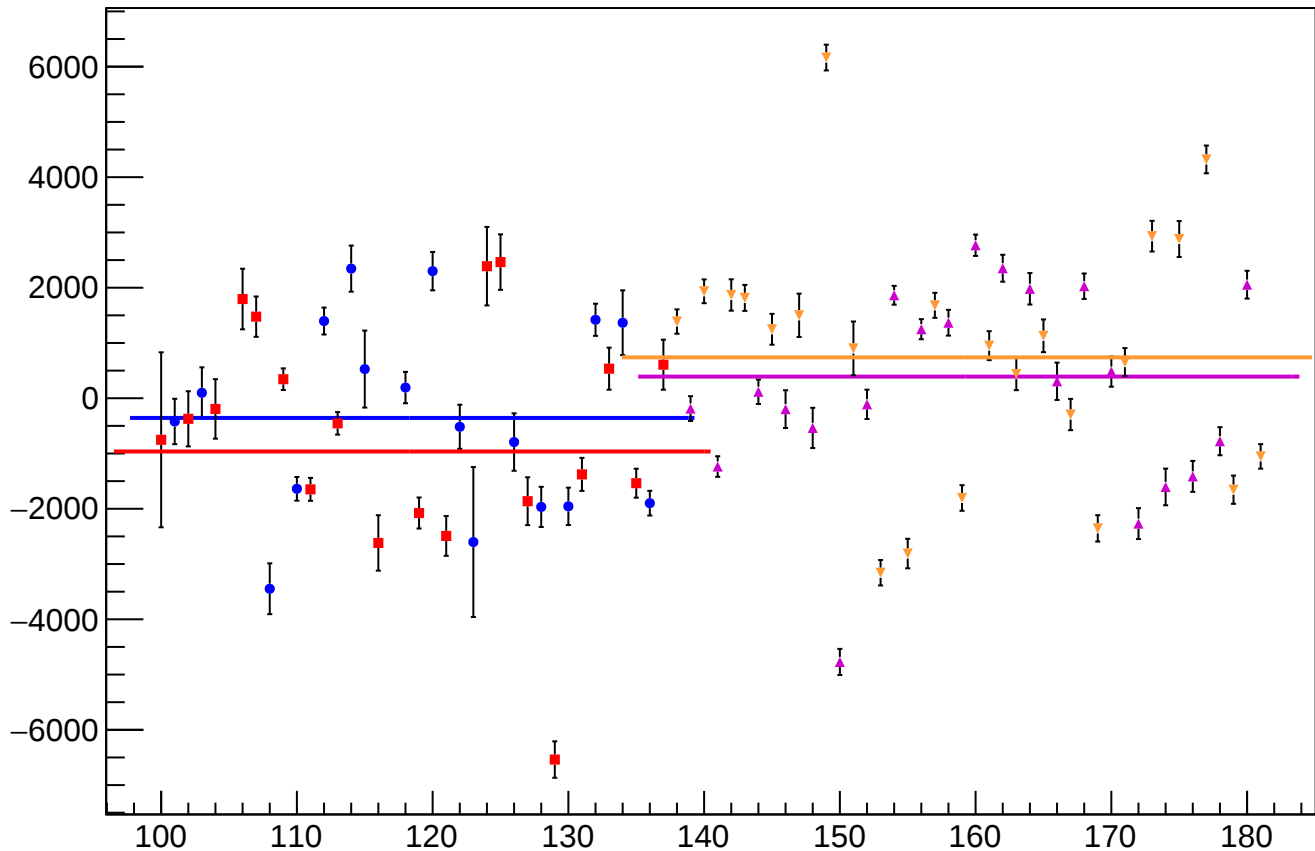
Right: 191.634+/-0.039 χ^2/NDF : 2271416.2/35

In: 204.036+/-0.031 χ^2/NDF : 1916427.8/37

Out: 208.881+/-0.031 χ^2/NDF : 2414173.2/41

All: 206.479+/-0.022 χ^2/NDF : 4342700.3/79

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -356.124 ± 83.321 χ^2/NDF : 378.6/16

Left Out: 739.933 ± 54.001 χ^2/NDF : 1873.3/22

Right Out: -963.743 ± 75.713 χ^2/NDF : 572.4/18

Left In: 391.736 ± 52.461 χ^2/NDF : 1220.4/20

Left: 560.802 ± 37.628 χ^2/NDF : 3115.1/43

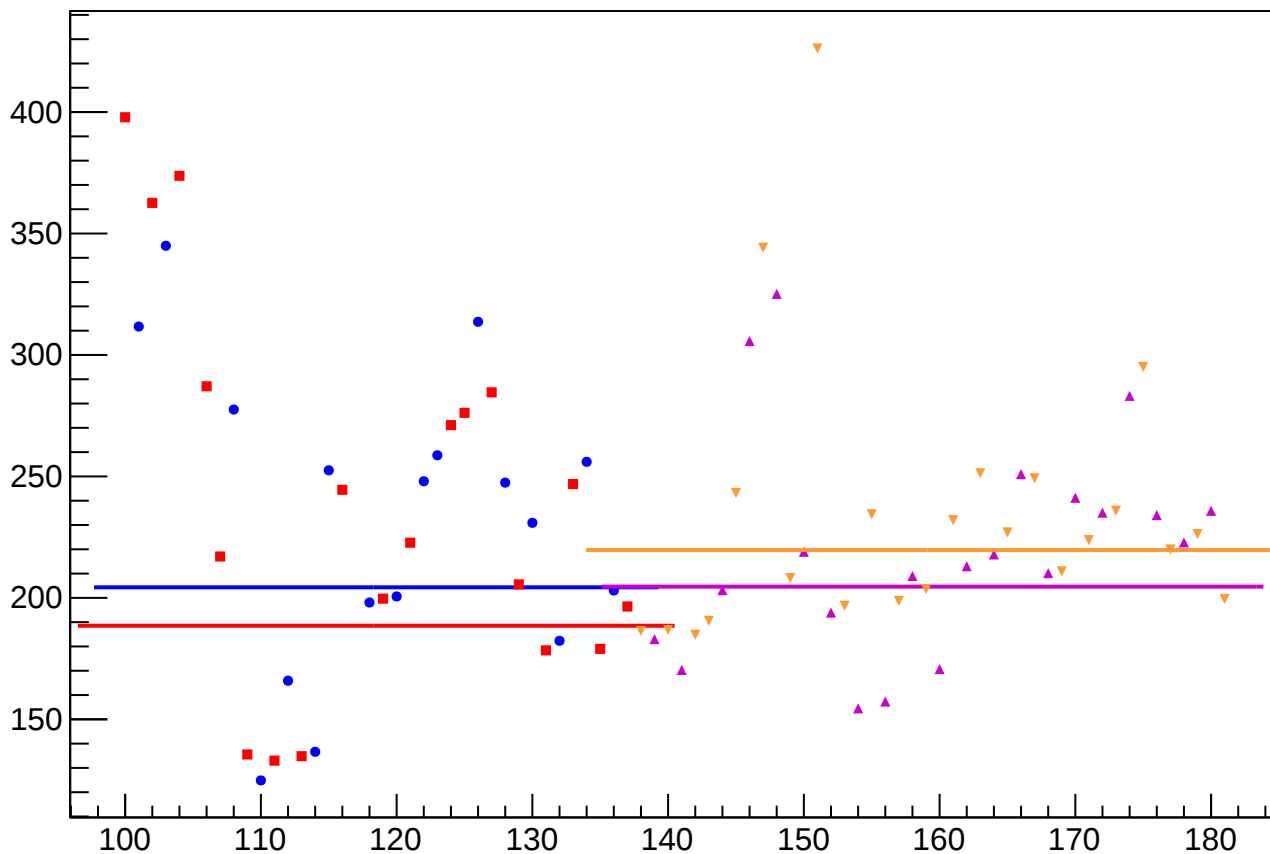
Right: -688.935 ± 56.034 χ^2/NDF : 980.1/35

In: 179.426 ± 44.395 χ^2/NDF : 1656.6/37

Out: 165.499 ± 43.964 χ^2/NDF : 2781.3/41

All: 172.394 ± 31.238 χ^2/NDF : 4438.0/79

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.343+/-0.059 χ^2/NDF : 944923.9/16

Left Out: 219.699+/-0.038 χ^2/NDF : 972082.7/22

Right Out: 188.523+/-0.054 χ^2/NDF : 1311109.8/18

Left In: 204.630+/-0.037 χ^2/NDF : 1142066.1/20

Left: 211.947+/-0.027 χ^2/NDF : 2194271.1/43

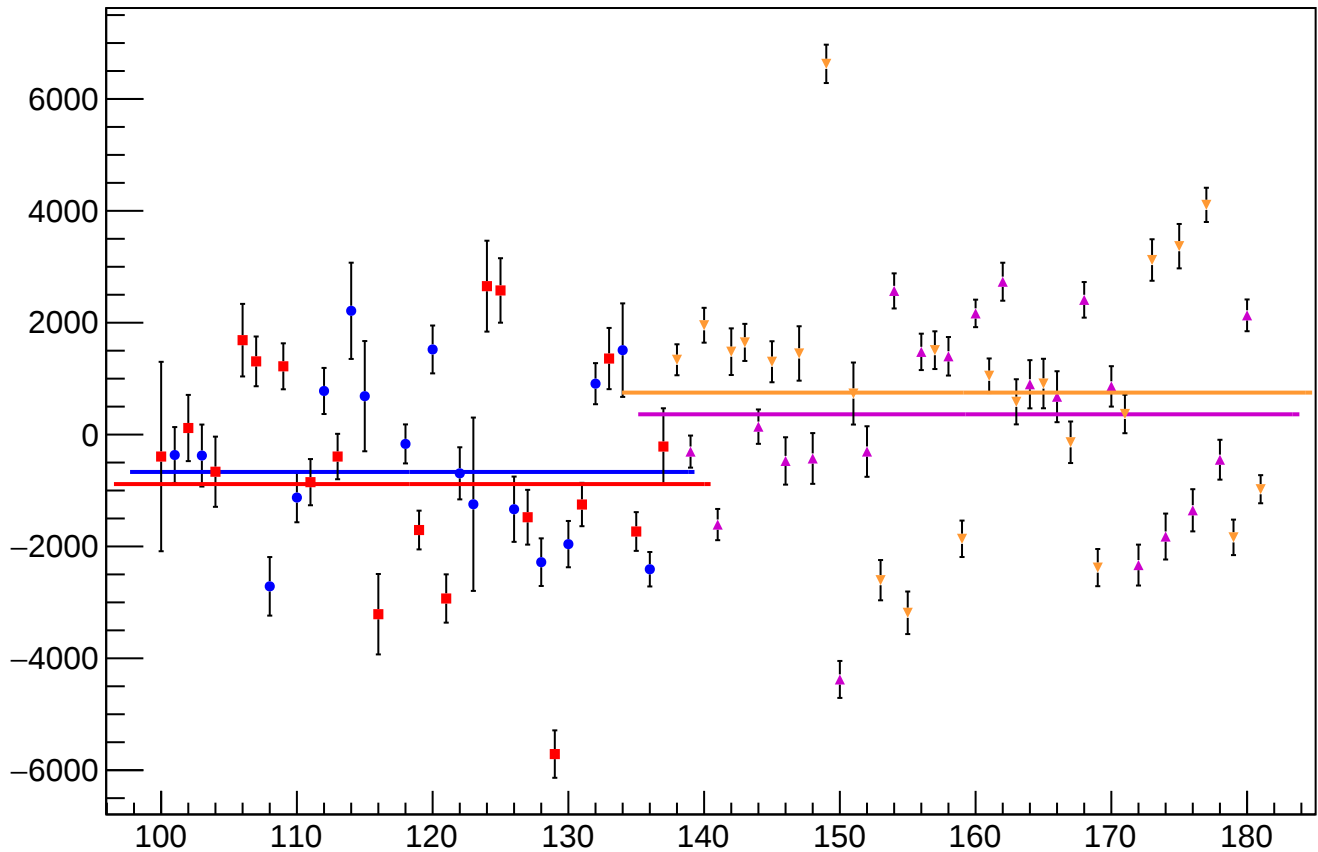
Right: 195.678+/-0.040 χ^2/NDF : 2295521.2/35

In: 204.548+/-0.031 χ^2/NDF : 2087007.0/37

Out: 209.187+/-0.031 χ^2/NDF : 2507951.4/41

All: 206.890+/-0.022 χ^2/NDF : 4605984.1/79

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -668.118 ± 114.189 χ^2/NDF : 153.3/16

Left Out: 750.454 ± 72.364 χ^2/NDF : 1006.3/22

Right Out: -884.858 ± 110.843 χ^2/NDF : 320.1/18

Left In: 362.455 ± 74.171 χ^2/NDF : 636.0/20

Left: 561.237 ± 51.796 χ^2/NDF : 1656.4/43

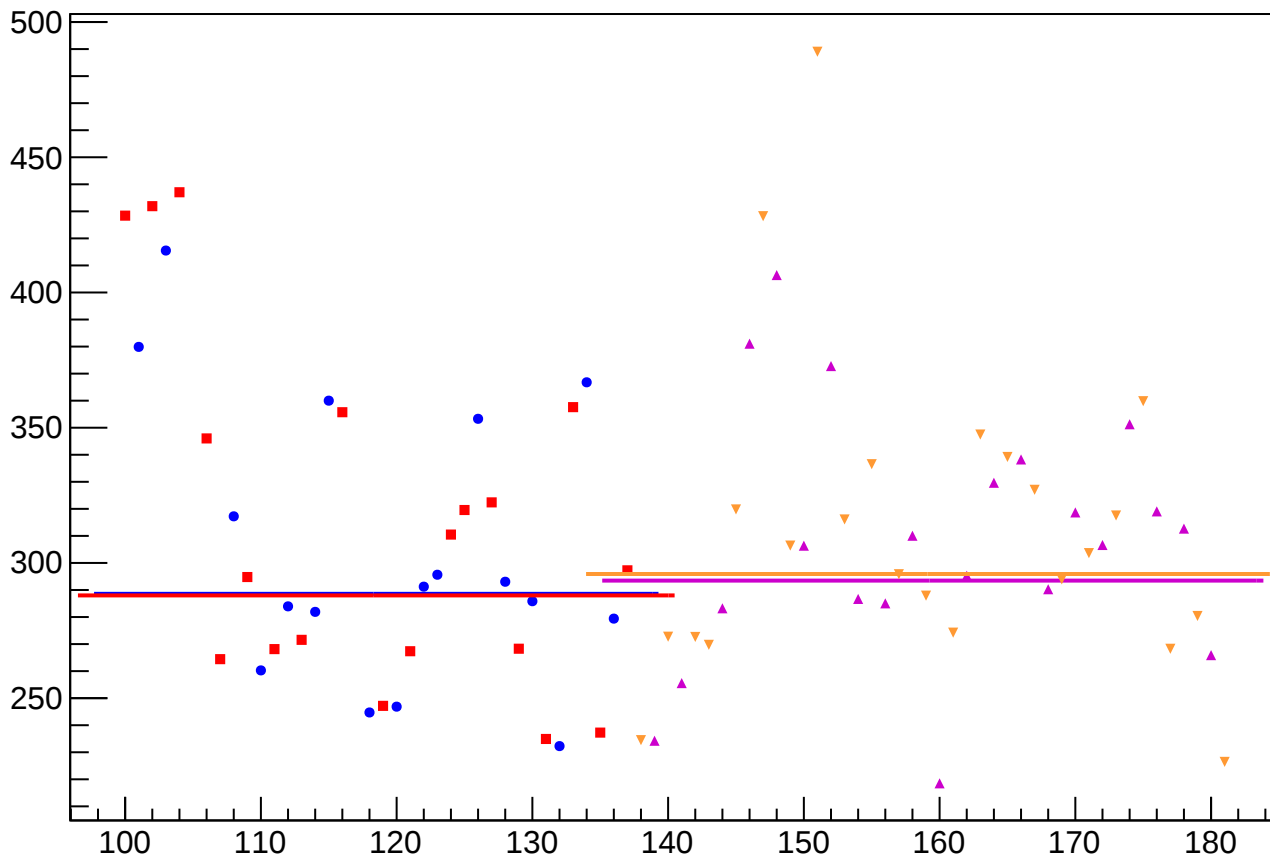
Right: -779.711 ± 79.534 χ^2/NDF : 475.3/35

In: 56.667 ± 62.201 χ^2/NDF : 846.7/37

Out: 261.750 ± 60.594 χ^2/NDF : 1479.1/41

All: 161.892 ± 43.403 χ^2/NDF : 2331.3/79

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 288.577 $\pm$ 0.081 χ^2 /NDF: 338793.1/16

Left Out: 295.911 $\pm$ 0.051 χ^2 /NDF: 868578.7/22

Right Out: 287.995 $\pm$ 0.078 χ^2 /NDF: 459962.0/18

Left In: 293.471 $\pm$ 0.052 χ^2 /NDF: 710974.7/20

Left: 294.721 $\pm$ 0.037 χ^2 /NDF: 1580662.7/43

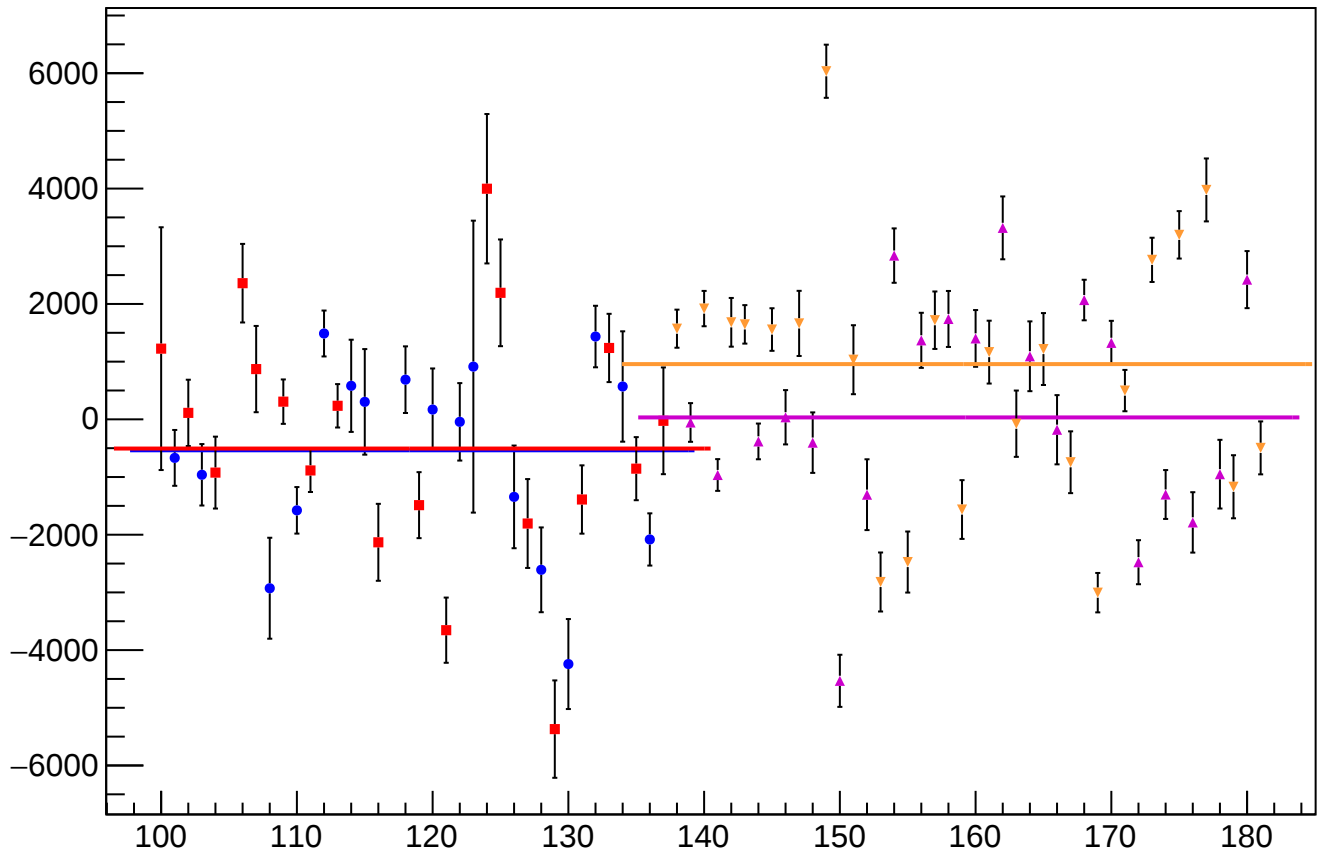
Right: 288.277 $\pm$ 0.056 χ^2 /NDF: 798781.9/35

In: 292.019 $\pm$ 0.044 χ^2 /NDF: 1052351.6/37

Out: 293.546 $\pm$ 0.043 χ^2 /NDF: 1335693.7/41

All: 292.802 $\pm$ 0.031 χ^2 /NDF: 2388663.7/79

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -536.568 ± 147.571 χ^2/NDF : 107.9/16

Left Out: 957.404 ± 91.025 χ^2/NDF : 527.1/22

Right Out: -506.373 ± 135.761 χ^2/NDF : 140.9/18

Left In: 33.163 ± 94.353 χ^2/NDF : 361.8/20

Left: 511.868 ± 65.509 χ^2/NDF : 938.6/43

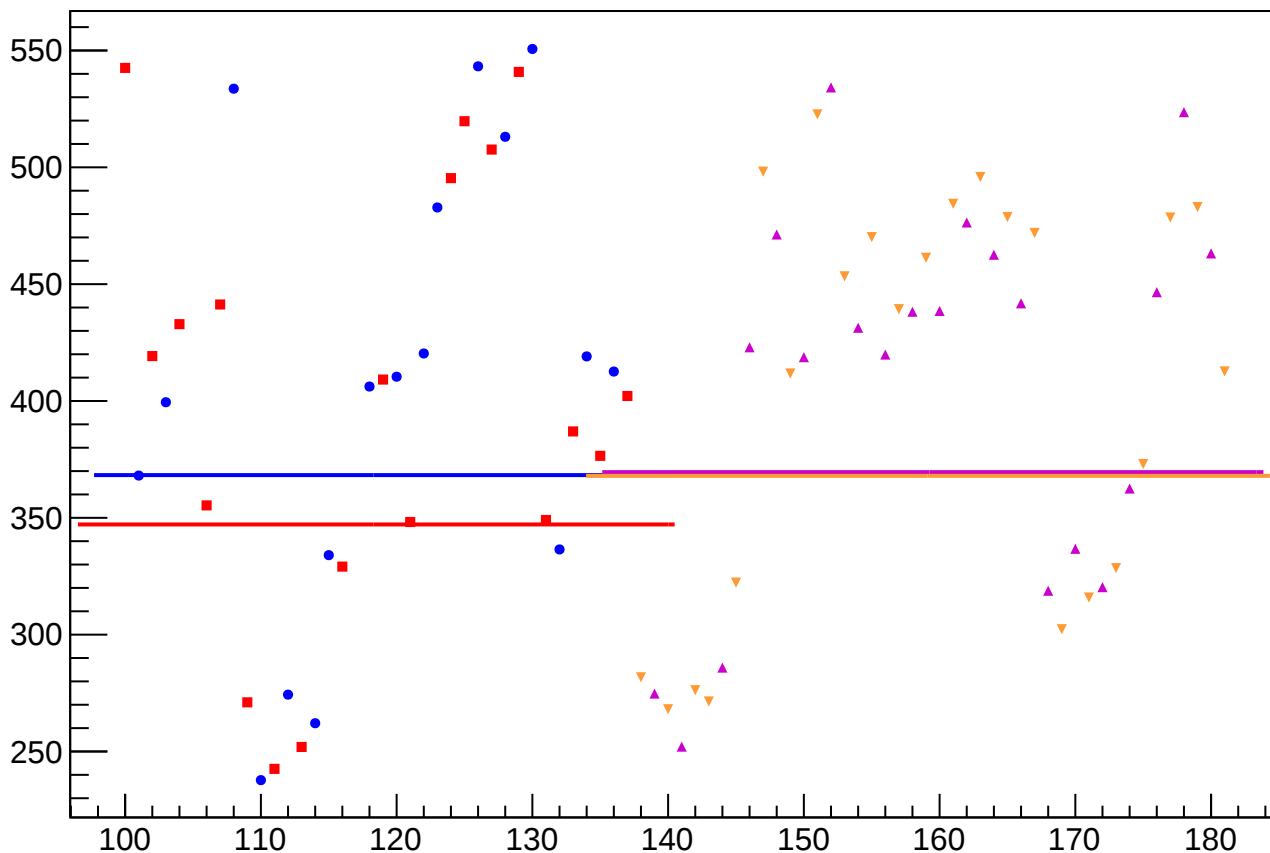
Right: -520.214 ± 99.912 χ^2/NDF : 248.8/35

In: -132.158 ± 79.493 χ^2/NDF : 480.3/37

Out: 503.445 ± 75.604 χ^2/NDF : 748.2/41

All: 201.572 ± 54.783 χ^2/NDF : 1262.0/79

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 368.287 $\pm$ 0.104 χ^2 /NDF: 765418.4/16

Left Out: 367.973 $\pm$ 0.064 χ^2 /NDF: 1794724.9/22

Right Out: 347.159 $\pm$ 0.096 χ^2 /NDF: 816304.3/18

Left In: 369.545 $\pm$ 0.067 χ^2 /NDF: 1566950.7/20

Left: 368.731 $\pm$ 0.046 χ^2 /NDF: 3361963.1/43

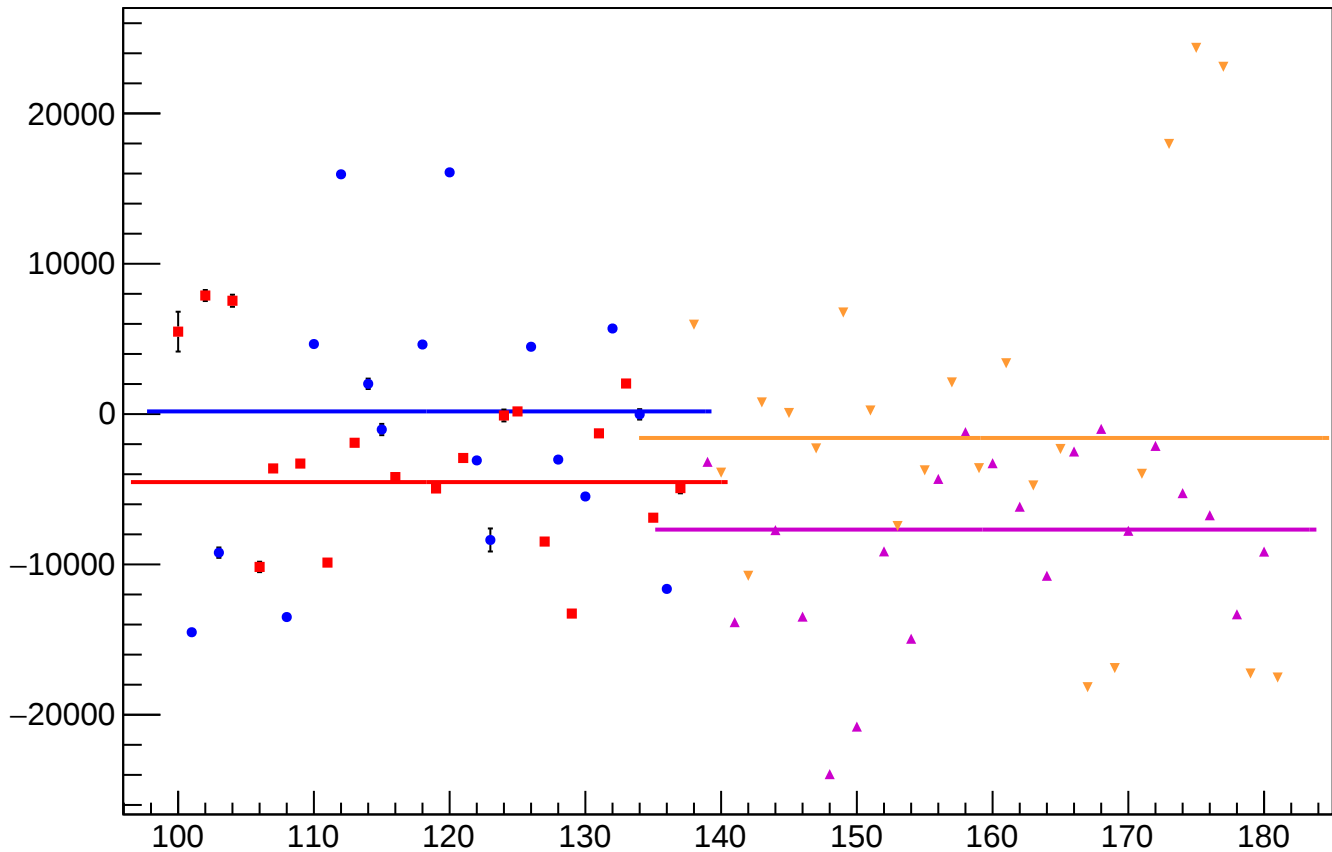
Right: 356.844 $\pm$ 0.071 χ^2 /NDF: 1603928.6/35

In: 369.180 $\pm$ 0.056 χ^2 /NDF: 2332472.2/37

Out: 361.518 $\pm$ 0.053 χ^2 /NDF: 2643462.3/41

All: 365.157 $\pm$ 0.039 χ^2 /NDF: 4985690.7/79

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 178.788+/-54.896 χ^2/NDF : 30662.2/16

Left Out: -1587.880+/-43.094 χ^2/NDF : 60612.3/22

Right Out: -4523.222+/-52.440 χ^2/NDF : 7474.2/18

Left In: -7683.382+/-45.082 χ^2/NDF : 17766.3/20

Left: -4498.298+/-31.151 χ^2/NDF : 87931.3/43

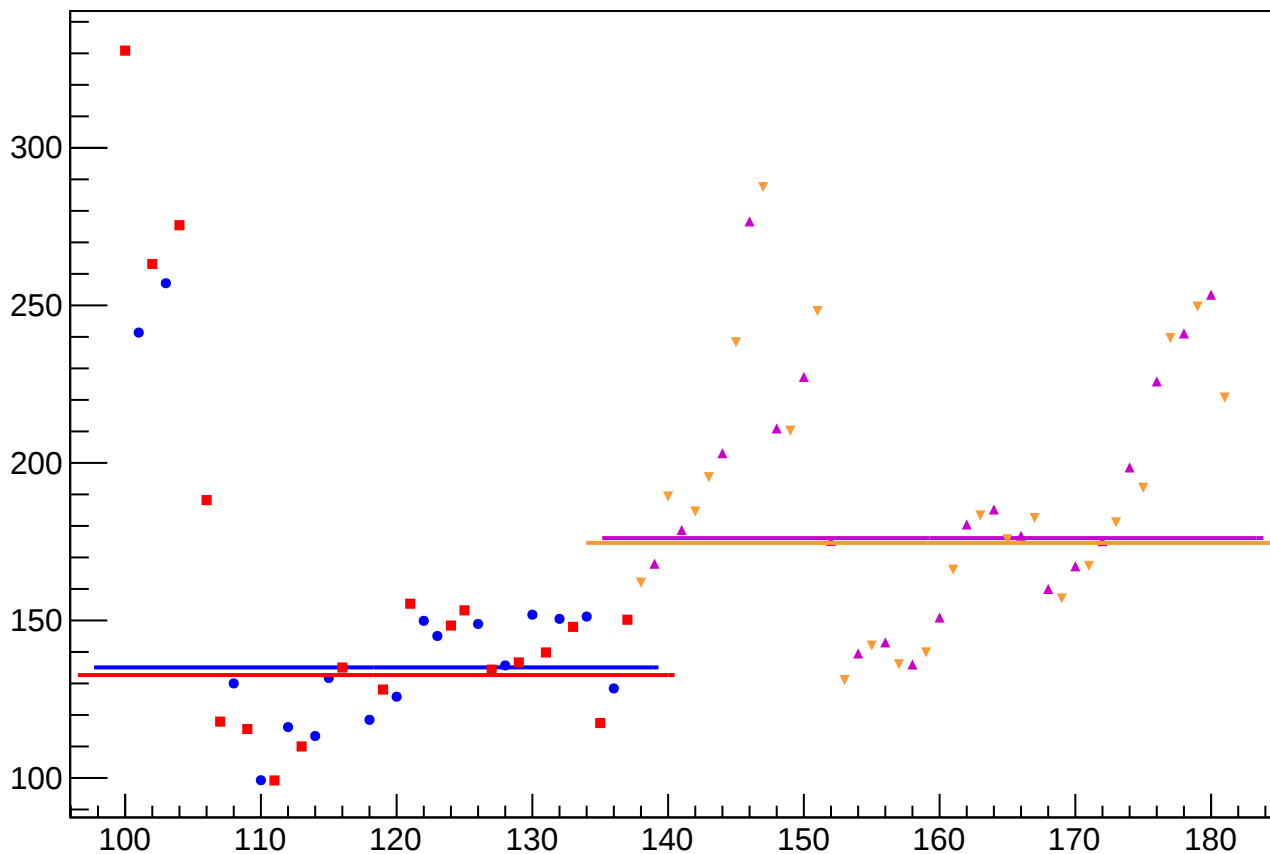
Right: -2279.776+/-37.919 χ^2/NDF : 41972.4/35

In: -4516.735+/-34.840 χ^2/NDF : 60678.6/37

Out: -2771.124+/-33.294 χ^2/NDF : 69956.8/41

All: -3604.358+/-24.070 χ^2/NDF : 131947.4/77

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 135.099 $\pm$ 0.039 χ^2 /NDF: 657657.4/16

Left Out: 174.610 $\pm$ 0.030 χ^2 /NDF: 1405215.3/22

Right Out: 132.672 $\pm$ 0.037 χ^2 /NDF: 828363.1/18

Left In: 176.141 $\pm$ 0.032 χ^2 /NDF: 1145624.0/20

Left: 175.341 $\pm$ 0.022 χ^2 /NDF: 2552044.1/43

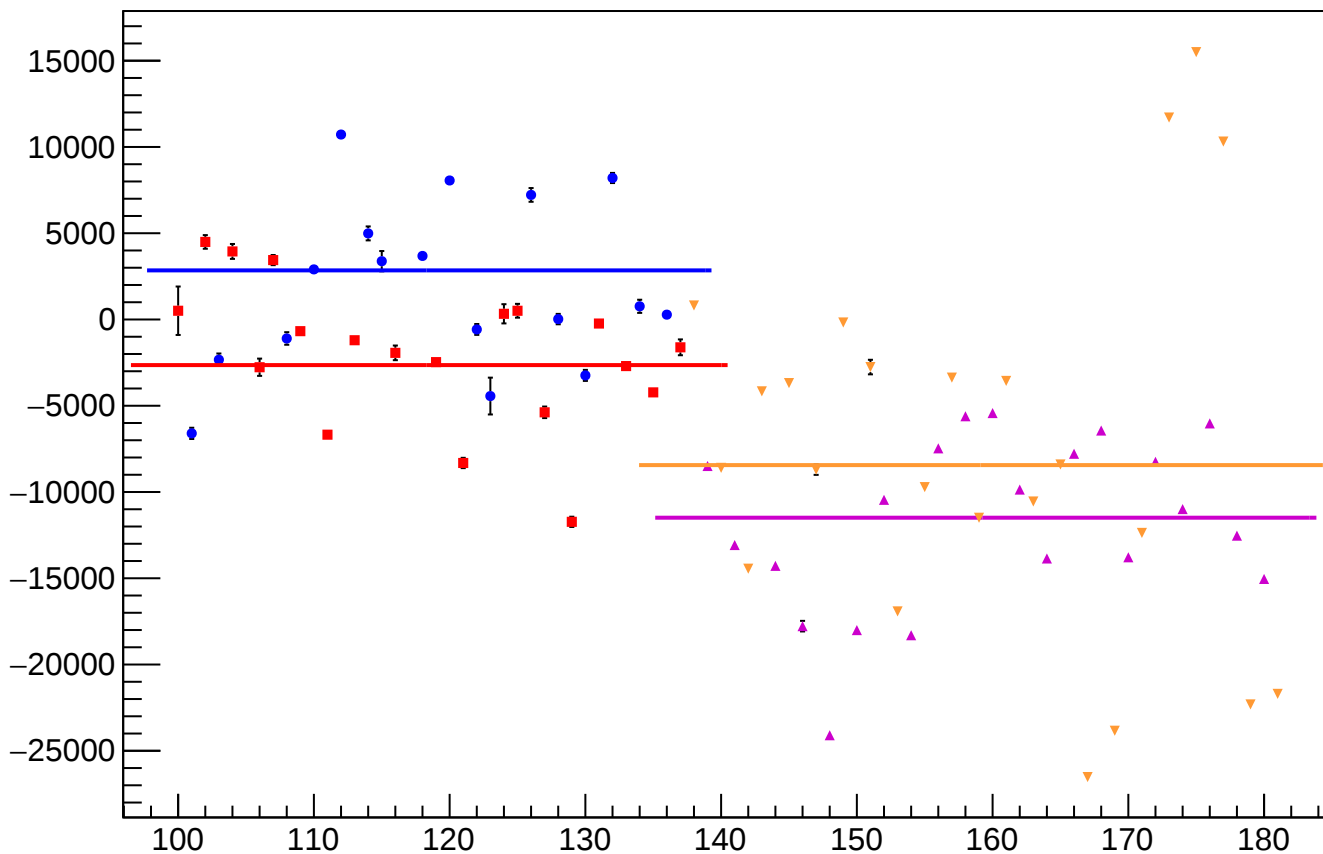
Right: 133.830 $\pm$ 0.027 χ^2 /NDF: 1488063.7/35

In: 159.610 $\pm$ 0.025 χ^2 /NDF: 2470929.7/37

Out: 157.705 $\pm$ 0.024 χ^2 /NDF: 2997108.3/41

All: 158.614 $\pm$ 0.017 χ^2 /NDF: 5471164.9/79

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2846.117 $\pm$ 70.894 χ^2 /NDF: 4160.1/16

Left Out: -8440.454 $\pm$ 46.910 χ^2 /NDF:53871.1/22

Right Out: -2643.505 $\pm$ 65.711 χ^2 /NDF: 3177.7/18

Left In: -11489.213 $\pm$ 45.217 χ^2 /NDF:11603.3/20

Left: -10020.847 $\pm$ 32.555 χ^2 /NDF: 67664.0/43

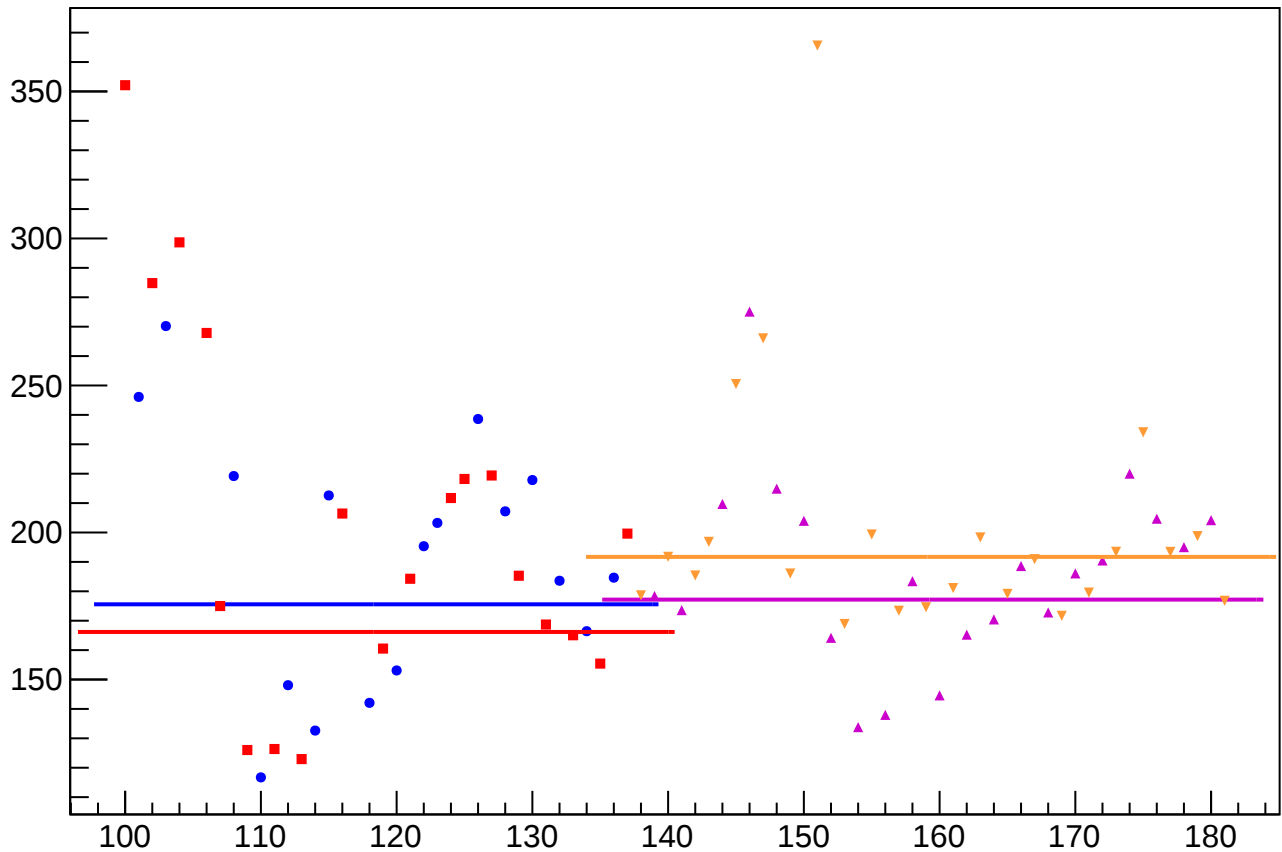
Right: -106.685 $\pm$ 48.193 χ^2 /NDF: 10563.0/35

In: -7343.899 $\pm$ 38.123 χ^2 /NDF:44827.8/37

Out: -6483.476 $\pm$ 38.180 χ^2 /NDF:62204.1/41

All: -6914.327 $\pm$ 26.977 χ^2 /NDF: 107286.3/7

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.582+/-0.050 χ^2/NDF : 687852.4/16

Left Out: 191.702+/-0.033 χ^2/NDF : 724979.8/22

Right Out: 166.180+/-0.046 χ^2/NDF : 925559.0/18

Left In: 177.174+/-0.032 χ^2/NDF : 855090.3/20

Left: 184.171+/-0.023 χ^2/NDF : 1679512.1/43

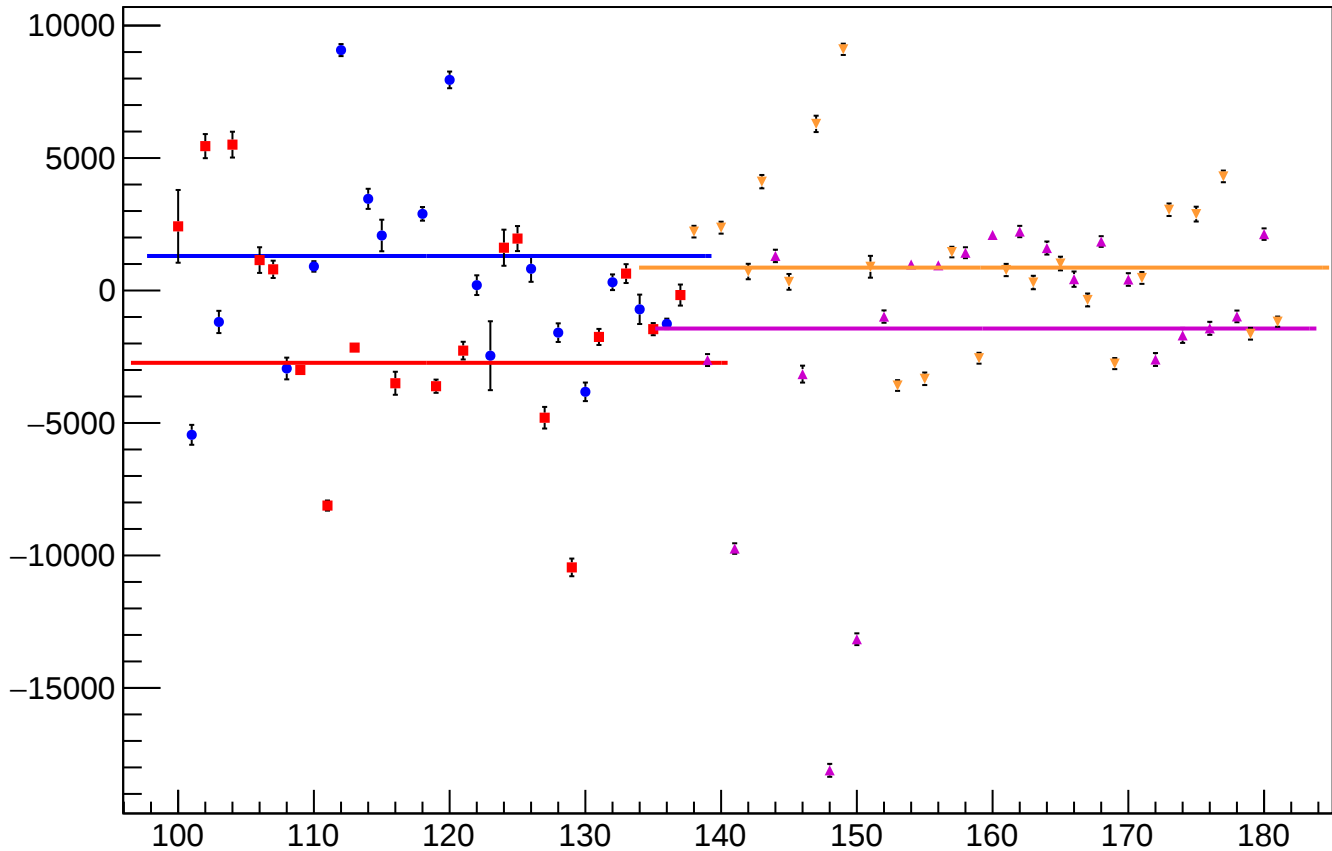
Right: 170.525+/-0.034 χ^2/NDF : 1632331.4/35

In: 176.713+/-0.027 χ^2/NDF : 1543659.5/37

Out: 183.086+/-0.027 χ^2/NDF : 1850391.3/41

All: 179.895+/-0.019 χ^2/NDF : 3421952.9/79

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1302.950 ± 77.323 $\chi^2/\text{NDF}: 2649.9/16$

Left Out: 864.423 ± 49.044 $\chi^2/\text{NDF}: 4090.0/22$

Right Out: -2729.355 ± 70.012 $\chi^2/\text{NDF}: 2497.2/18$

Left In: -1434.946 ± 47.299 $\chi^2/\text{NDF}: 11595.1/20$

Left: -326.901 ± 34.045 $\chi^2/\text{NDF}: 16824.0/43$

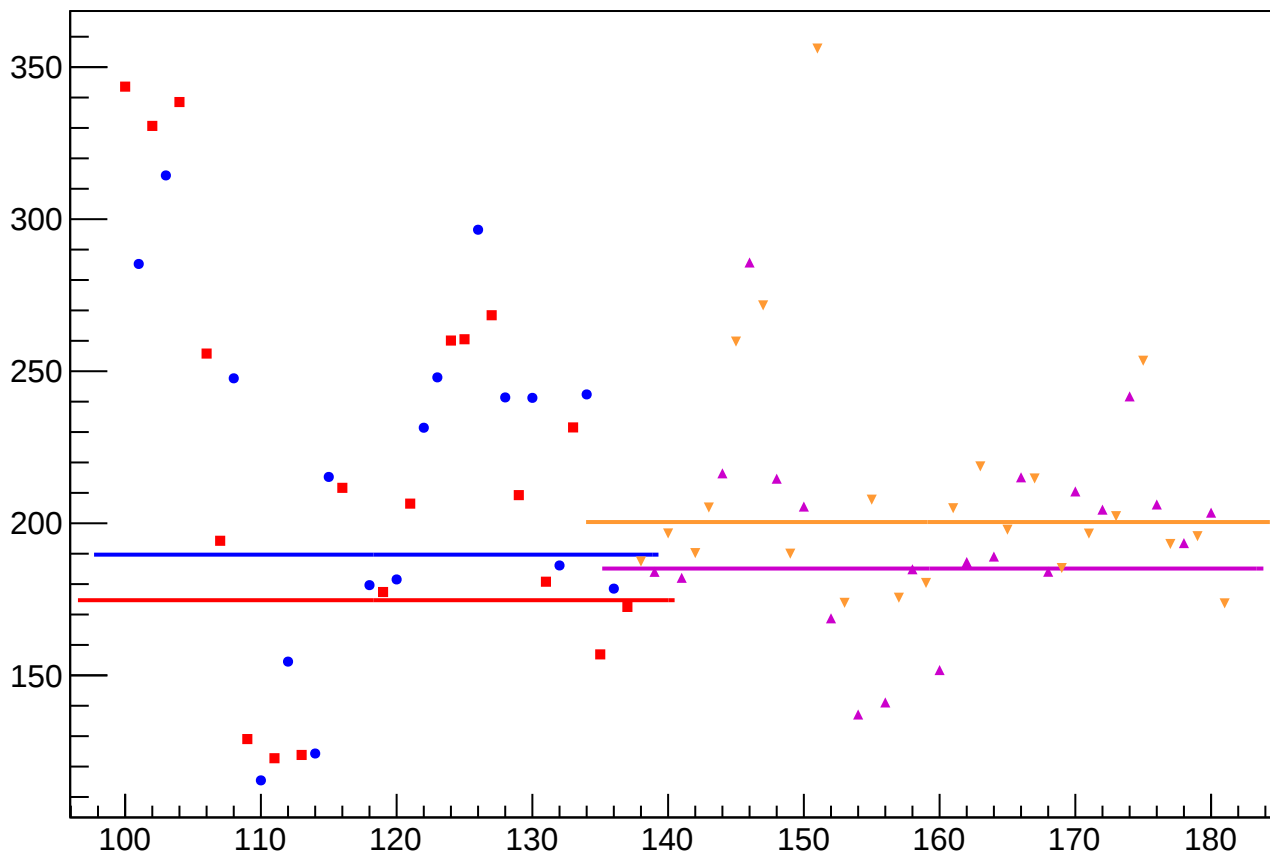
Right: -912.817 ± 51.899 $\chi^2/\text{NDF}: 6641.4/35$

In: -689.441 ± 40.348 $\chi^2/\text{NDF}: 15157.4/37$

Out: -318.578 ± 40.169 $\chi^2/\text{NDF}: 8354.7/41$

All: -503.181 ± 28.467 $\chi^2/\text{NDF}: 23554.5/79$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 189.687 $\pm$ 0.055 χ^2 /NDF: 977199.2/16

Left Out: 200.411 $\pm$ 0.035 χ^2 /NDF: 715827.8/22

Right Out: 174.707 $\pm$ 0.050 χ^2 /NDF: 1291115.5/18

Left In: 185.117 $\pm$ 0.033 χ^2 /NDF: 882704.7/20

Left: 192.487 $\pm$ 0.024 χ^2 /NDF: 1699307.4/43

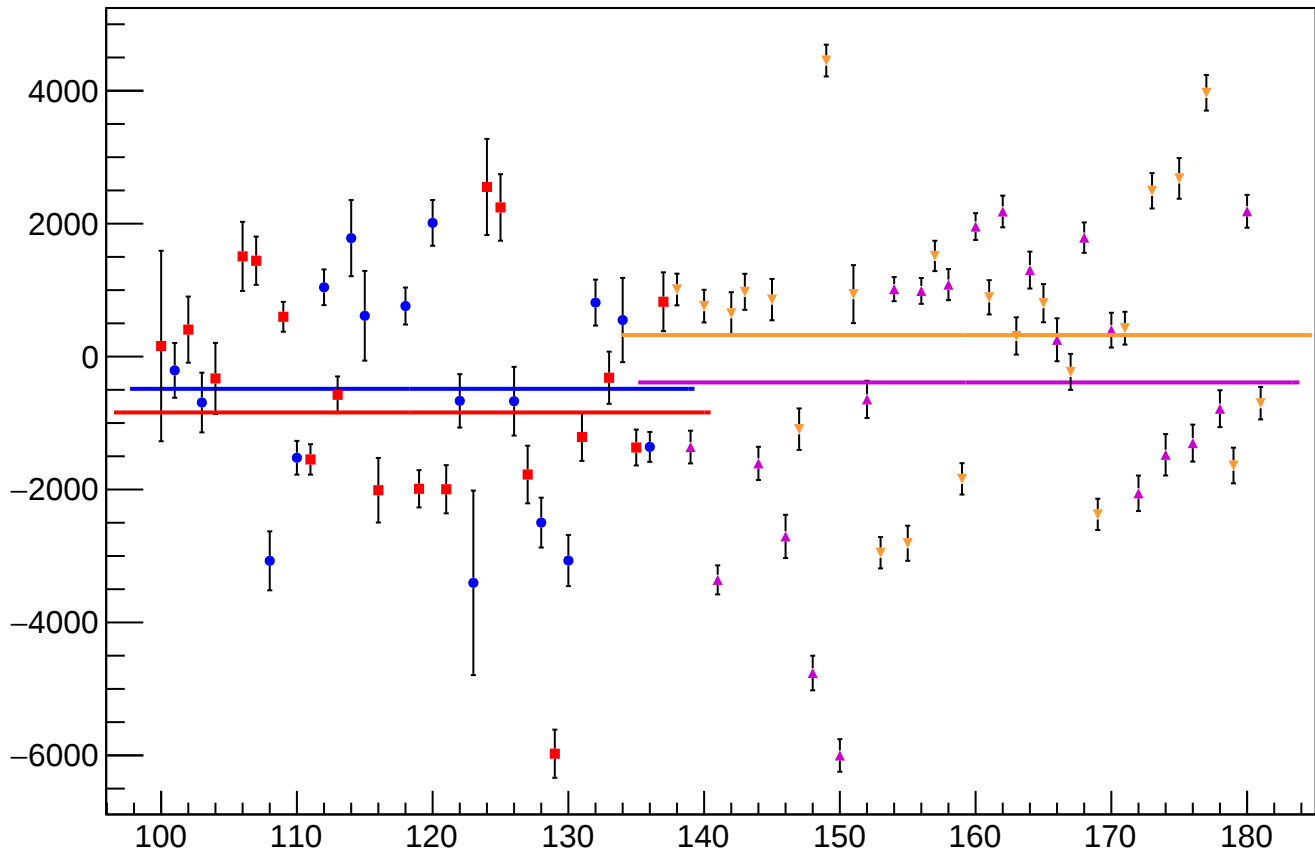
Right: 181.455 $\pm$ 0.037 χ^2 /NDF: 2309563.7/35

In: 186.361 $\pm$ 0.029 χ^2 /NDF: 1864988.4/37

Out: 191.950 $\pm$ 0.028 χ^2 /NDF: 2187789.5/41

All: 189.168 $\pm$ 0.020 χ^2 /NDF: 4072048.7/79

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -485.036±/88.788 χ^2/NDF : 285.3/16

Left Out: 323.339±/55.229 χ^2/NDF :1312.2/22

Right Out: -840.594±/82.233 χ^2/NDF : 438.2/18

Left In: -388.764±/53.656 χ^2/NDF :1797.0/20

Left: -42.992±/38.485 χ^2/NDF : 3194.7/43

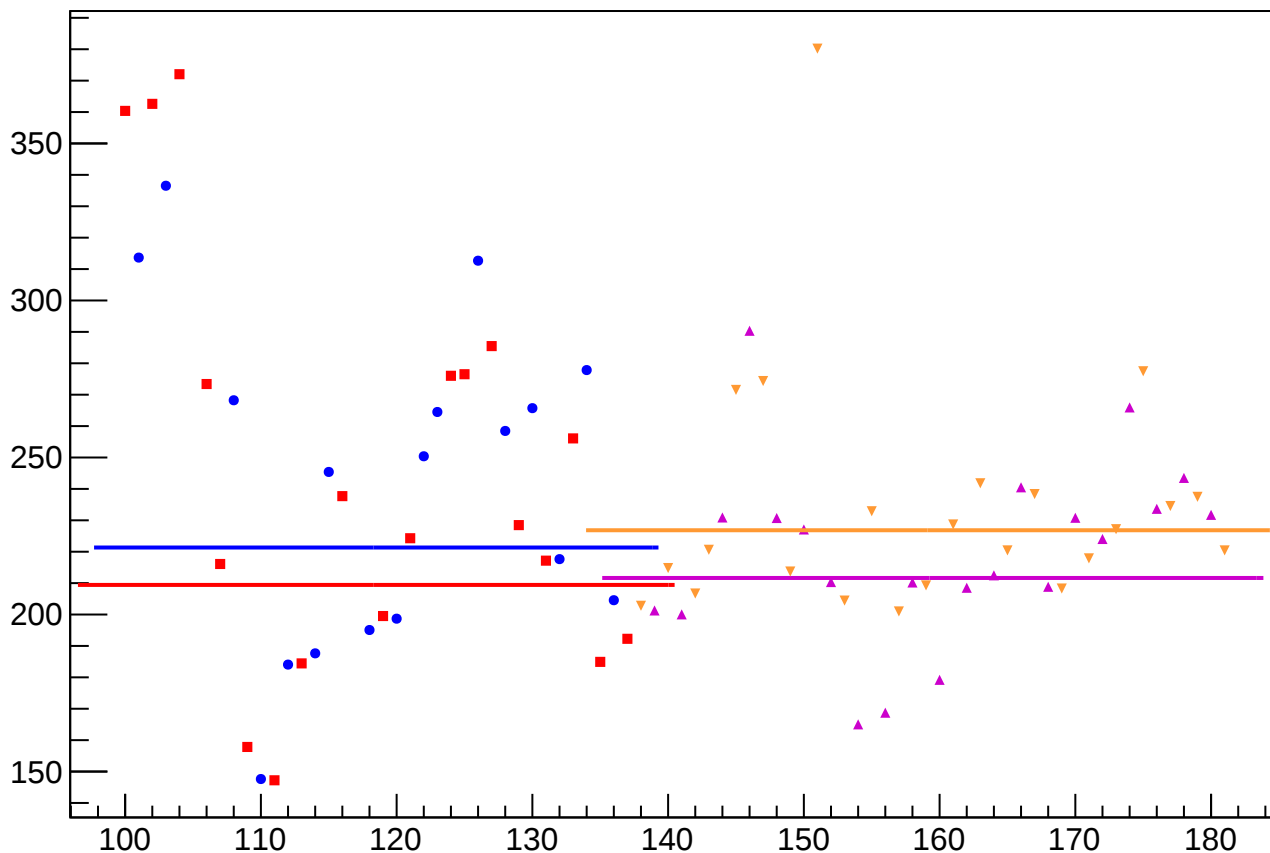
Right: -676.425±/60.332 χ^2/NDF : 732.1/35

In: -414.517±/45.922 χ^2/NDF :2083.1/37

Out: -38.473±/45.848 χ^2/NDF :1888.5/41

All: -226.191±/32.446 χ^2/NDF : 4005.2/79

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.339 $\pm$ 0.063 χ^2 /NDF: 645507.4/16

Left Out: 226.836 $\pm$ 0.039 χ^2 /NDF: 517293.9/22

Right Out: 209.428 $\pm$ 0.058 χ^2 /NDF: 879292.0/18

Left In: 211.642 $\pm$ 0.038 χ^2 /NDF: 582988.2/20

Left: 219.019 $\pm$ 0.027 χ^2 /NDF: 1178152.2/43

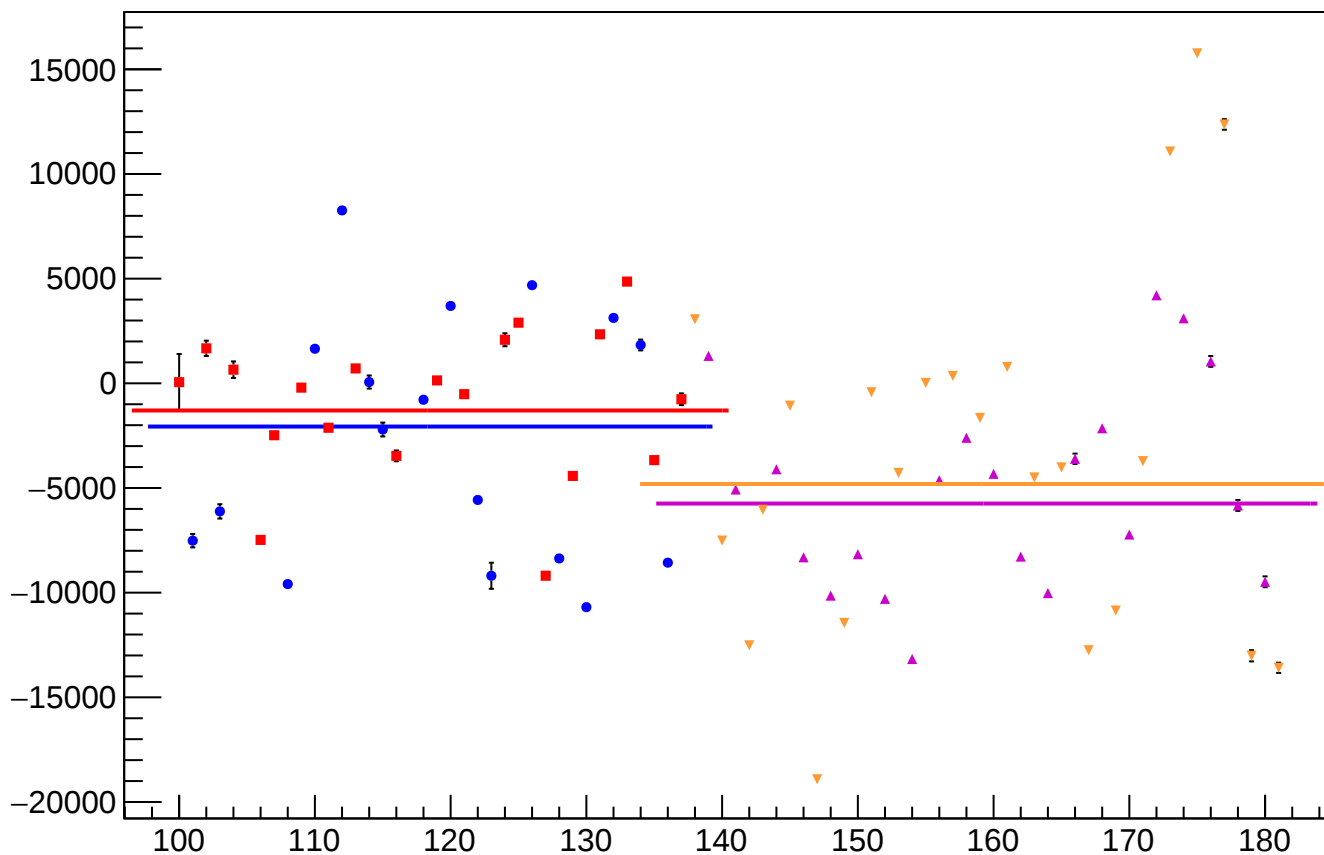
Right: 214.927 $\pm$ 0.043 χ^2 /NDF: 1544173.7/35

In: 214.236 $\pm$ 0.032 χ^2 /NDF: 1245970.3/37

Out: 221.424 $\pm$ 0.032 χ^2 /NDF: 1458351.1/41

All: 217.836 $\pm$ 0.023 χ^2 /NDF: 2728865.2/79

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2065.524+/-47.407 χ^2/NDF : 16535.7/16

Left Out: -4809.676+/-34.168 χ^2/NDF : 51757.6/22

Right Out: -1298.632+/-44.980 χ^2/NDF : 5909.5/18

Left In: -5744.333+/-35.415 χ^2/NDF : 14303.9/20

Left: -5260.254+/-24.590 χ^2/NDF : 66422.2/43

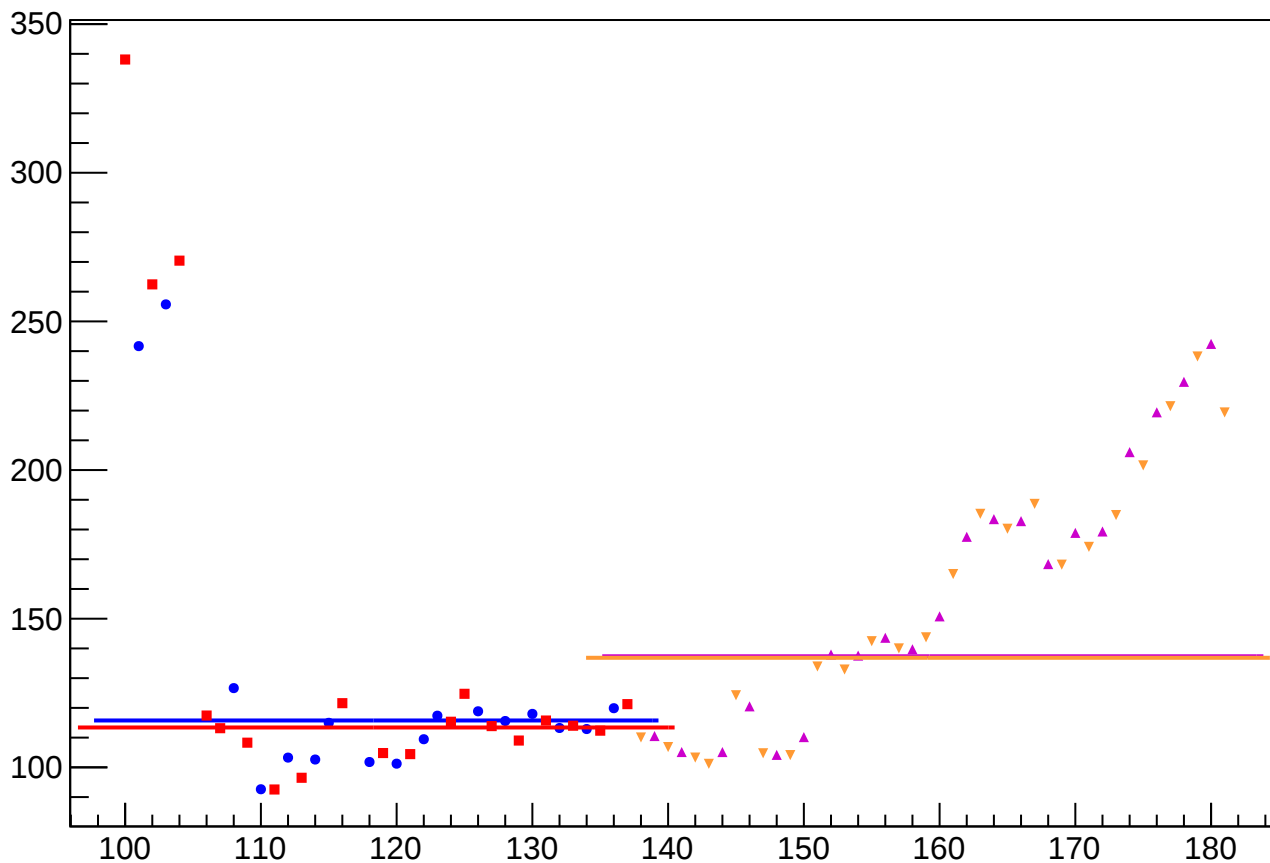
Right: -1661.949+/-32.630 χ^2/NDF : 22582.8/35

In: -4426.626+/-28.372 χ^2/NDF : 34704.5/37

Out: -3525.003+/-27.208 χ^2/NDF : 61530.6/41

All: -3956.937+/-19.638 χ^2/NDF : 96761.2/79

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 115.768 $\pm$ 0.034 χ^2 /NDF: 743657.8/16

Left Out: 136.850 $\pm$ 0.024 χ^2 /NDF: 2241155.4/22

Right Out: 113.410 $\pm$ 0.032 χ^2 /NDF: 795303.3/18

Left In: 137.366 $\pm$ 0.025 χ^2 /NDF: 2080851.7/20

Left: 137.099 $\pm$ 0.017 χ^2 /NDF: 4322227.0/43

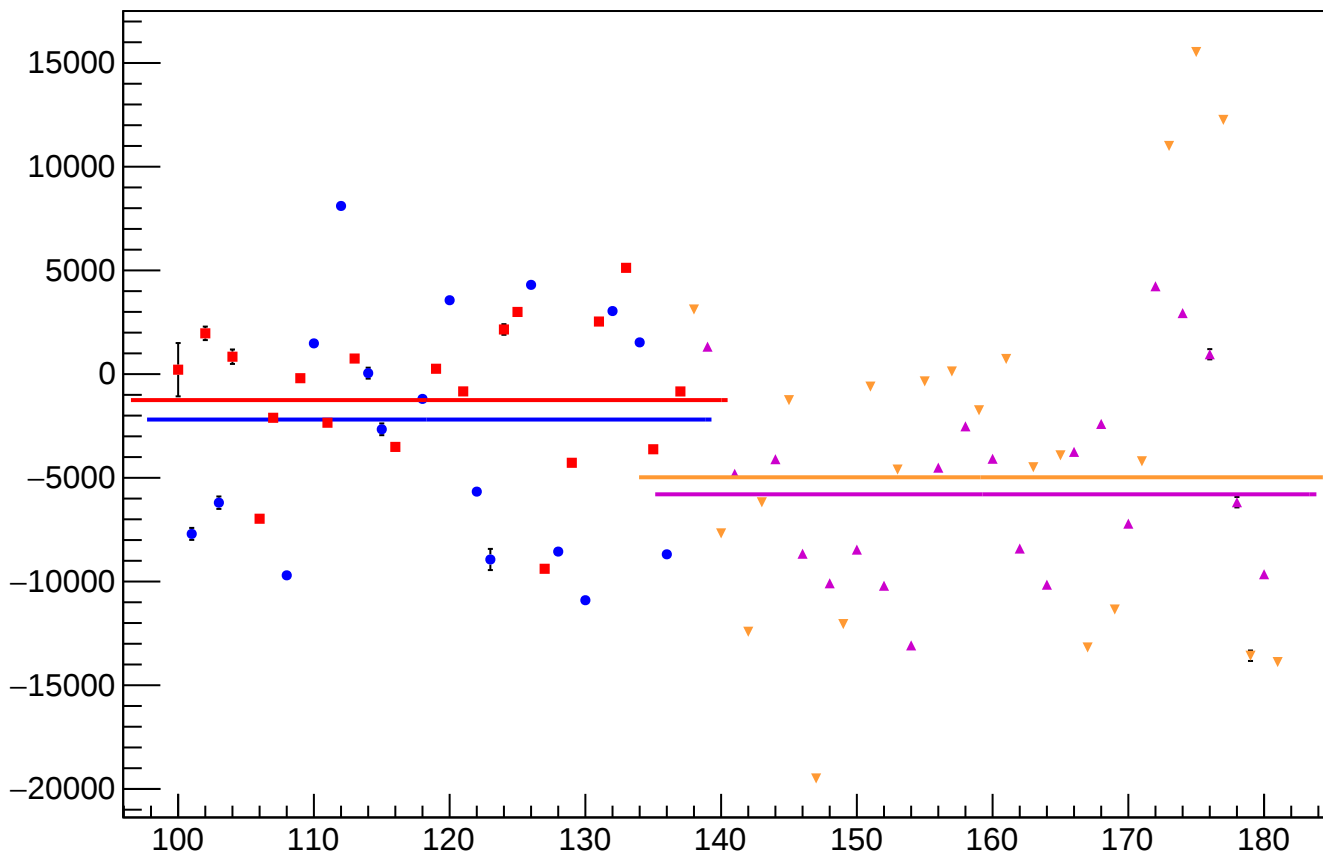
Right: 114.527 $\pm$ 0.023 χ^2 /NDF: 1541564.1/35

In: 129.630 $\pm$ 0.020 χ^2 /NDF: 3090956.5/37

Out: 128.274 $\pm$ 0.019 χ^2 /NDF: 3380866.0/41

All: 128.923 $\pm$ 0.014 χ^2 /NDF: 6474203.4/79

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2190.242 $\pm$ 40.008 χ^2/NDF : 22811.0/16

Left Out: -4973.647 $\pm$ 31.036 χ^2/NDF : 61120.5/22

Right Out: -1252.225 $\pm$ 38.029 χ^2/NDF : 8581.9/18

Left In: -5794.955 $\pm$ 32.515 χ^2/NDF : 17154.1/20

Left: -5365.197 $\pm$ 22.450 χ^2/NDF : 78608.4/43

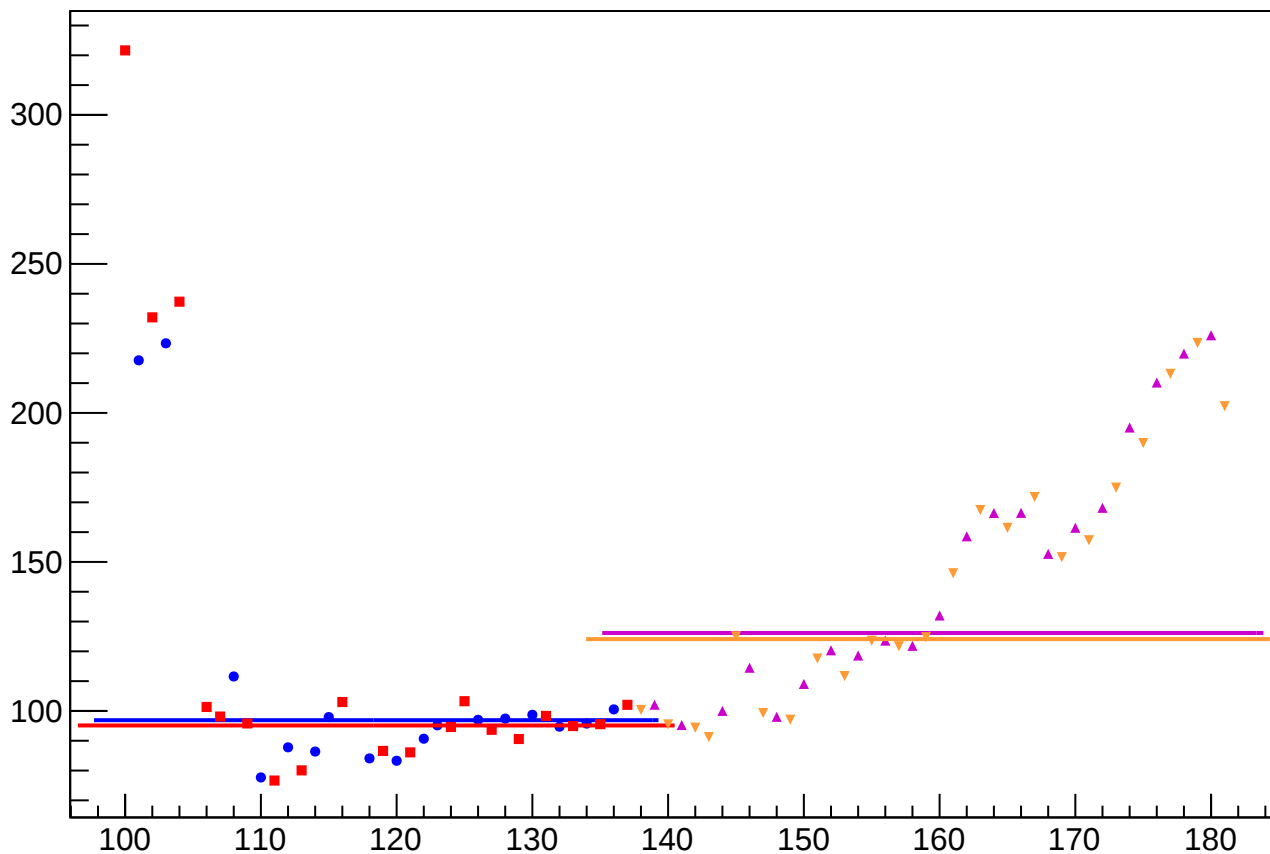
Right: -1697.452 $\pm$ 27.564 χ^2/NDF : 31681.6/35

In: -4361.110 $\pm$ 25.233 χ^2/NDF : 44853.9/37

Out: -3485.895 $\pm$ 24.045 χ^2/NDF : 75450.2/41

All: -3902.414 $\pm$ 17.407 χ^2/NDF : 120934.6/77

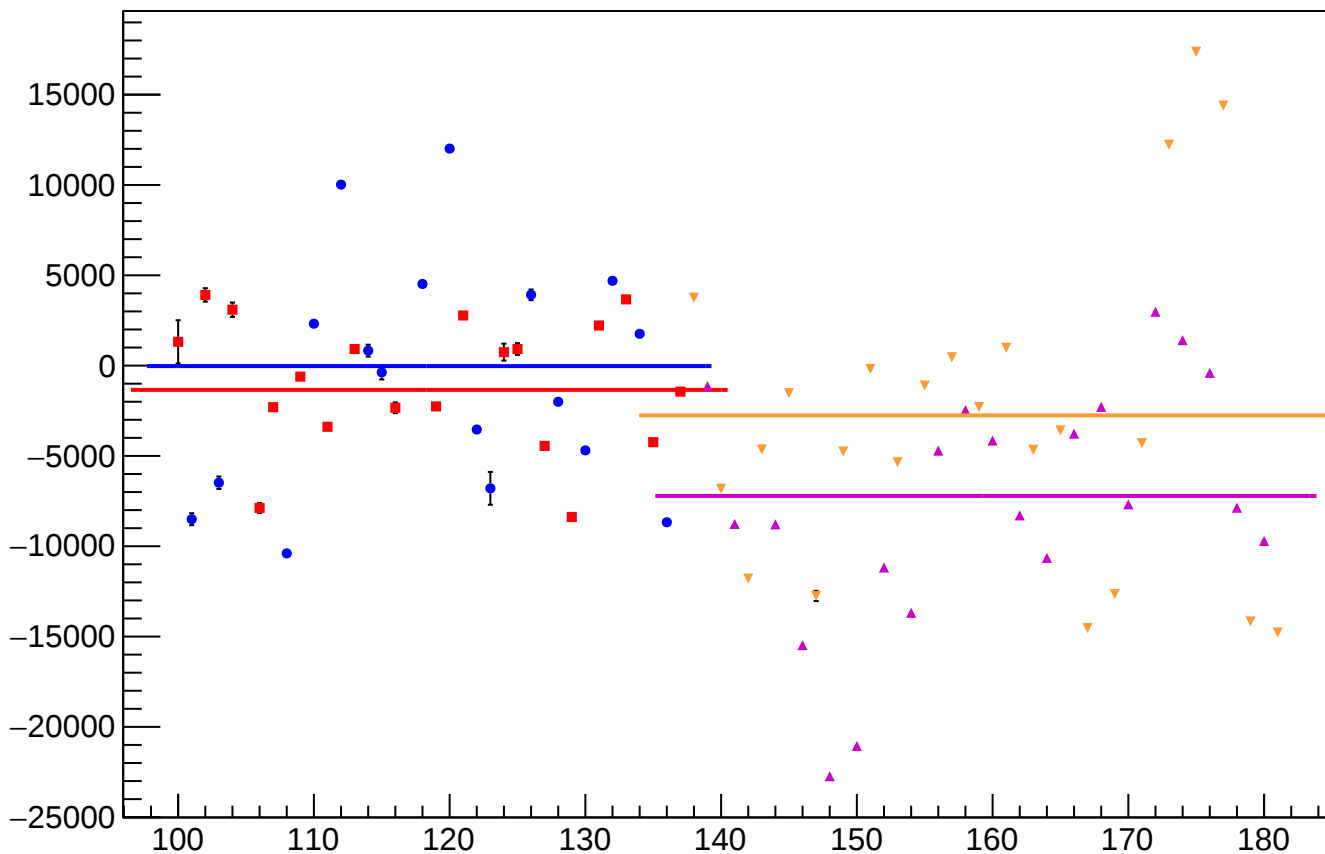
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 96.898+/-0.028 χ^2/NDF : 817255.1/16
 Left Out: 124.104+/-0.022 χ^2/NDF : 2284692.0/22
 Right Out: 95.130+/-0.027 χ^2/NDF : 858457.3/18
 Left In: 126.163+/-0.023 χ^2/NDF : 2008455.5/20

Left: 125.086+/-0.016 χ^2/NDF : 4297345.4/43
 Right: 95.969+/-0.019 χ^2/NDF : 1677765.8/35
 In: 114.523+/-0.018 χ^2/NDF : 3470160.8/37
 Out: 112.521+/-0.017 χ^2/NDF : 3840009.8/41
 All: 113.473+/-0.012 χ^2/NDF : 7316768.7/79

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -27.457 ± 54.732 $\chi^2/\text{NDF}: 16364.6/16$

Left Out: -2754.920 ± 41.316 $\chi^2/\text{NDF}: 32782.6/22$

Right Out: -1343.122 ± 52.343 $\chi^2/\text{NDF}: 3846.7/18$

Left In: -7214.647 ± 43.814 $\chi^2/\text{NDF}: 17822.2/20$

Left: -4854.042 ± 30.059 $\chi^2/\text{NDF}: 56089.0/43$

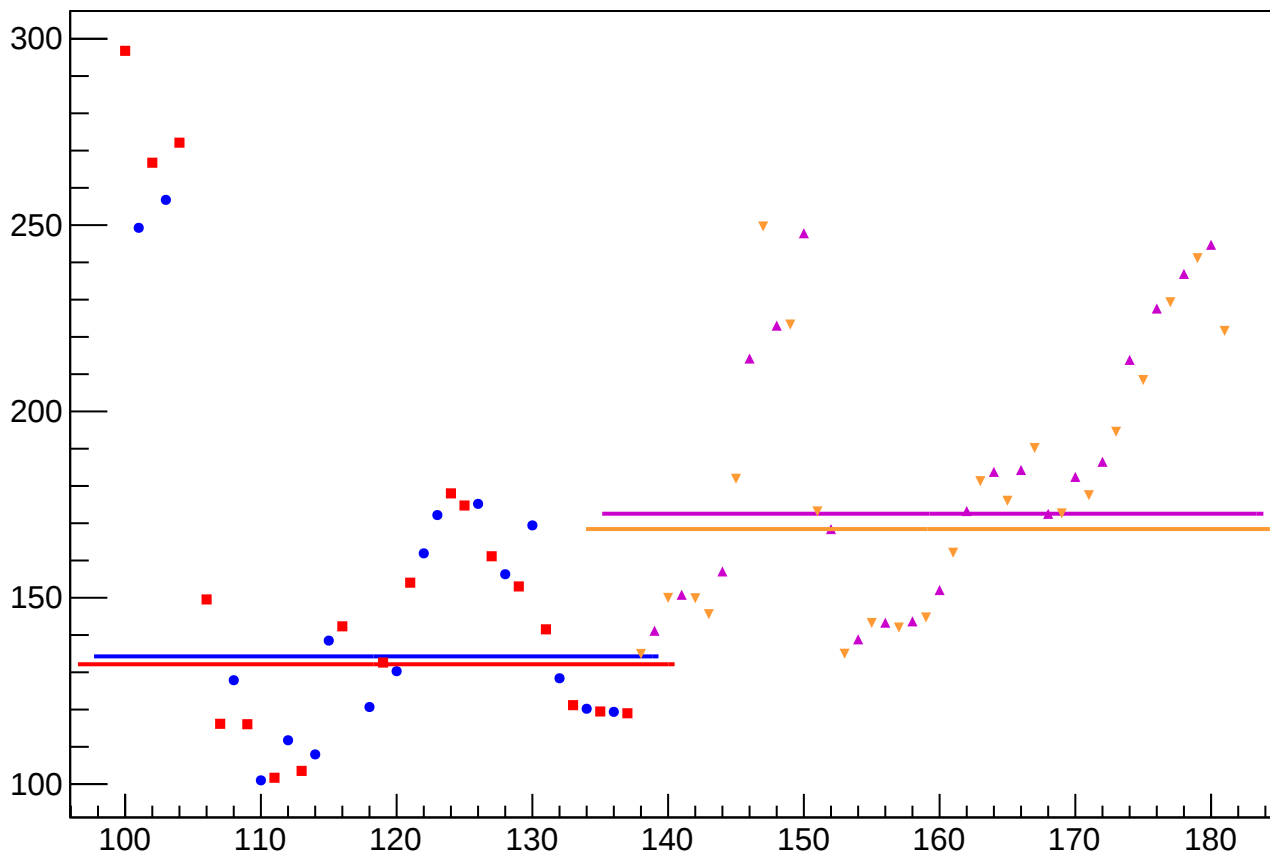
Right: -714.627 ± 37.829 $\chi^2/\text{NDF}: 20513.1/35$

In: -4407.694 ± 34.204 $\chi^2/\text{NDF}: 44696.0/37$

Out: -2212.971 ± 32.430 $\chi^2/\text{NDF}: 37077.6/41$

All: -3251.953 ± 23.534 $\chi^2/\text{NDF}: 83941.7/79$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 134.270 $\pm$ 0.039 χ^2/NDF : 787098.5/16

Left Out: 168.442 $\pm$ 0.029 χ^2/NDF :1140327.7/22

Right Out: 132.155 $\pm$ 0.037 χ^2/NDF : 865020.1/18

Left In: 172.554 $\pm$ 0.031 χ^2/NDF :1099859.0/20

Left: 170.378 $\pm$ 0.021 χ^2/NDF : 2249508.9/43

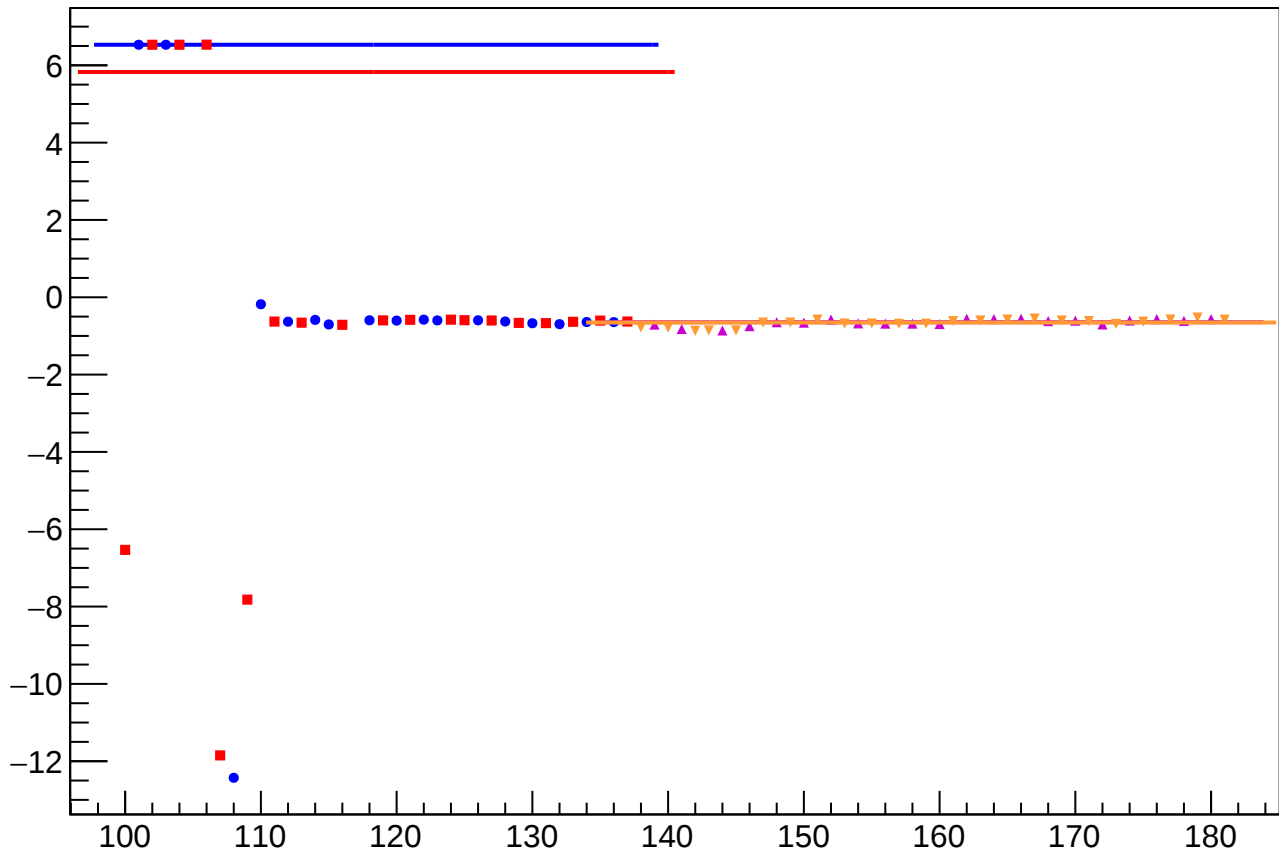
Right: 133.165 $\pm$ 0.027 χ^2/NDF : 1653679.5/35

In: 157.602 $\pm$ 0.024 χ^2/NDF :2483323.5/37

Out: 154.513 $\pm$ 0.023 χ^2/NDF :2597597.7/41

All: 155.975 $\pm$ 0.017 χ^2/NDF : 5089515.0/79

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127565119308.7/16

Left Out: -0.652+/-0.000 χ^2/NDF : 170982069.9/22

Right Out: 5.827+/-0.000 χ^2/NDF : 755947318870738.2/18

Left In: -0.645+/-0.000 χ^2/NDF : 122461691.9/20

Left: -0.649+/-0.000 χ^2/NDF : 293897543.6/43

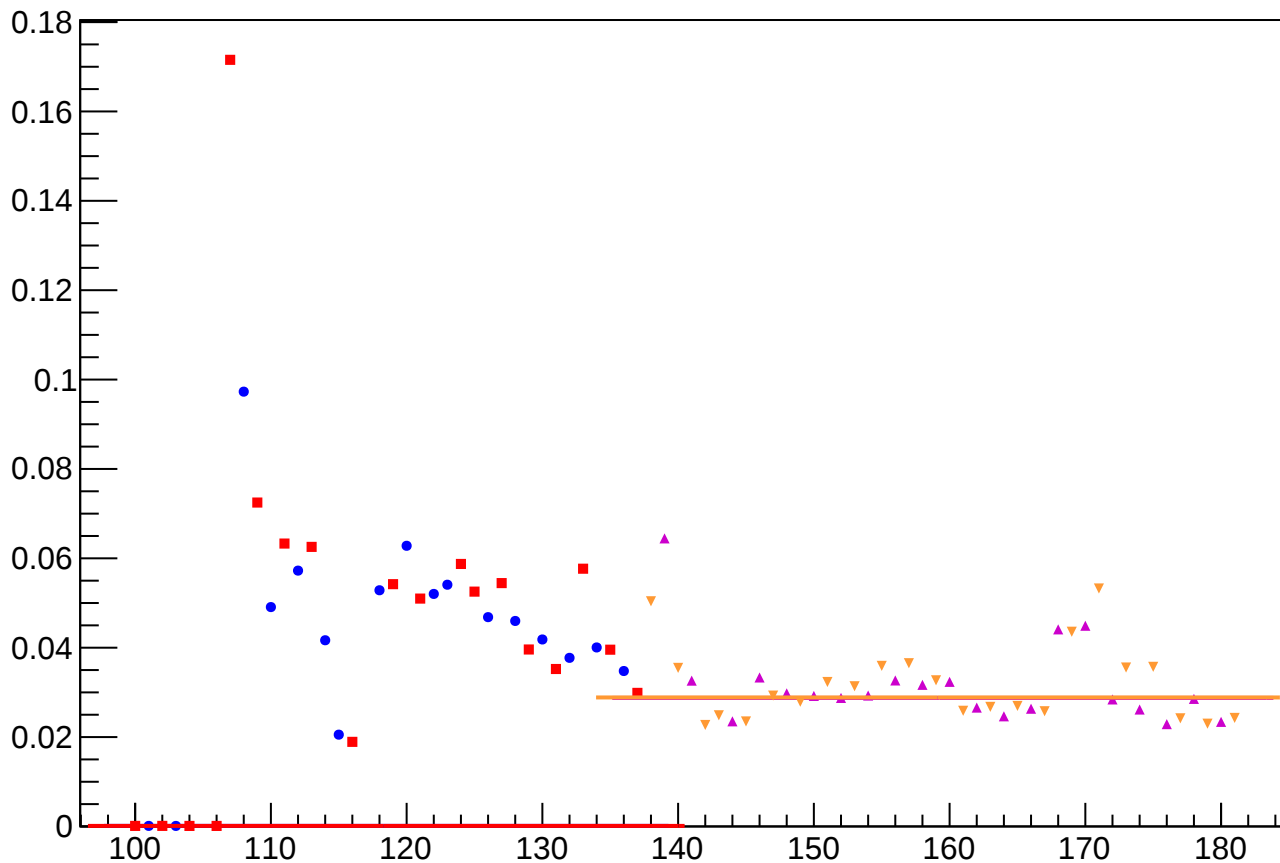
Right: 6.155+/-0.000 χ^2/NDF : 776078051369928.0/43

In: 6.530+/-0.000 χ^2/NDF : 921851116977.7/37

Out: 5.826+/-0.000 χ^2/NDF : 756631829990363.5/43

All: 6.153+/-0.000 χ^2/NDF : 77754651262923.0/86

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9008104.3/16

Left Out: 0.029+/-0.000 χ^2/NDF :1298685.1/22

Right Out: 0.000+/-0.000 χ^2/NDF : 9347467.6/18

Left In: 0.029+/-0.000 χ^2/NDF :1101299.5/20

Left: 0.029+/-0.000 χ^2/NDF : 2400161.4/43

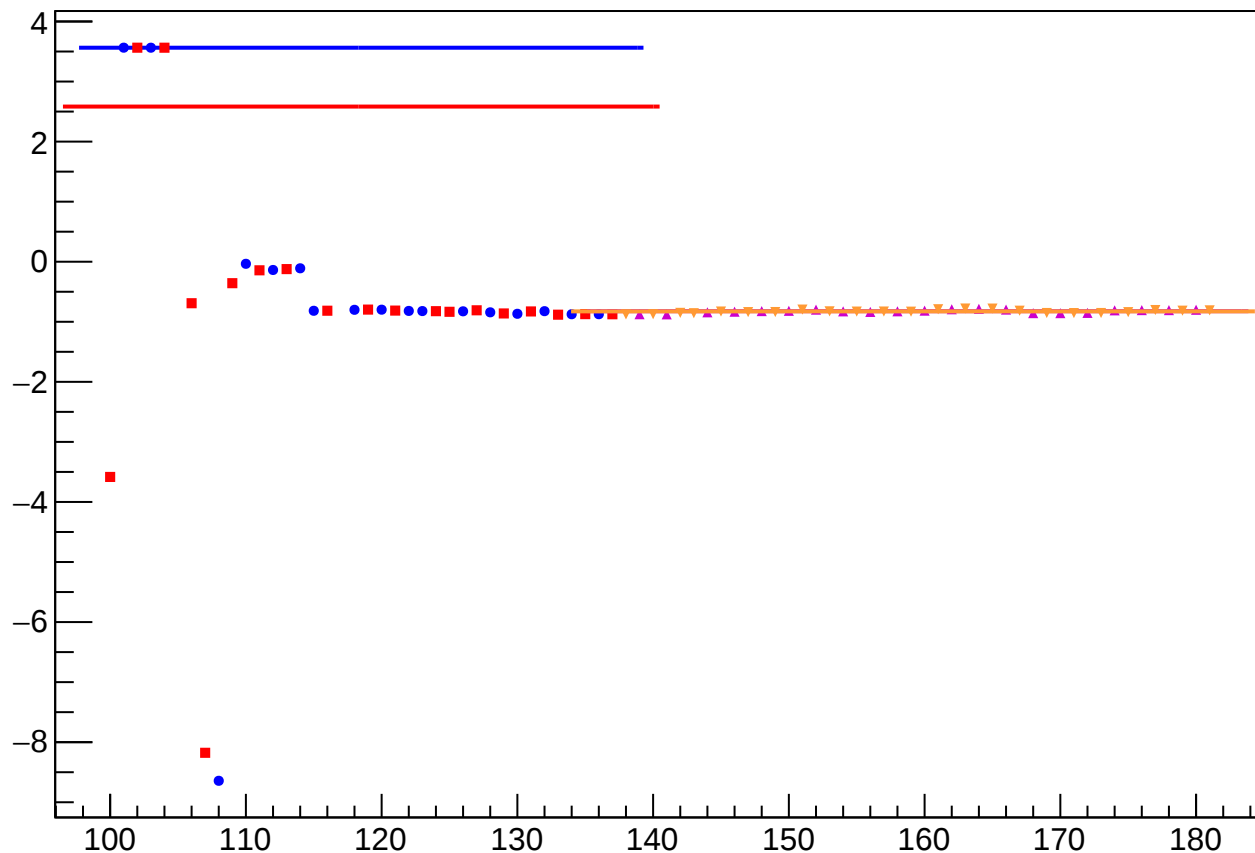
Right: 0.000+/-0.000 χ^2/NDF : 18355822.2/35

In: 0.000+/-0.000 χ^2/NDF :35399735.6/37

Out: 0.000+/-0.000 χ^2/NDF :37577433.3/41

All: 0.000+/-0.000 χ^2/NDF : 72977567.1/79

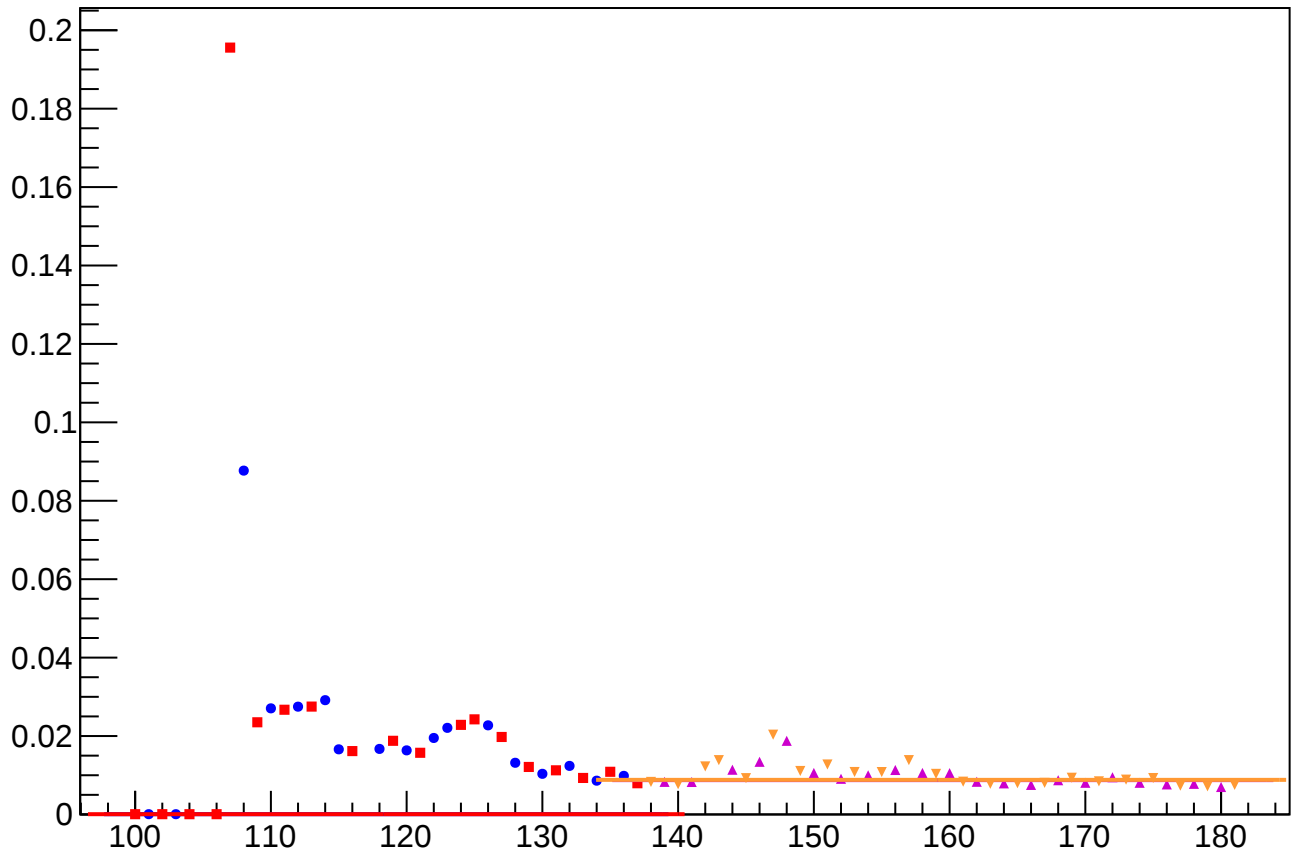
yield_cav4bY_mean vs Slug, Sign Corrected



Left: -0.825 +/- 0.000 χ^2/NDF : 307719073.4/43
 Right: 3.040 +/- 0.000 χ^2/NDF : 1382260831198329.0
 In: 3.560 +/- 0.000 χ^2/NDF : 3880691165282.7/37
 Out: 2.581 +/- 0.000 χ^2/NDF : 1255657164530604.0
 All: 3.038 +/- 0.000 χ^2/NDF : 13876632165276

Right In: 3.563 +/- 0.000 χ^2/NDF : 485019512048.0/16
 Left Out: -0.827 +/- 0.000 χ^2/NDF : 160140047.7/22
 Right Out: 2.583 +/- 0.000 χ^2/NDF : 1253504623679499.2/18
 Left In: -0.823 +/- 0.000 χ^2/NDF : 146732705.7/20

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9814021.8/16

Left Out: 0.009+/-0.000 χ^2/NDF :1321541.2/22

Right Out: 0.000+/-0.000 χ^2/NDF : 9837255.2/18

Left In: 0.009+/-0.000 χ^2/NDF :1018512.7/20

Left: 0.009+/-0.000 χ^2/NDF : 2340859.6/43

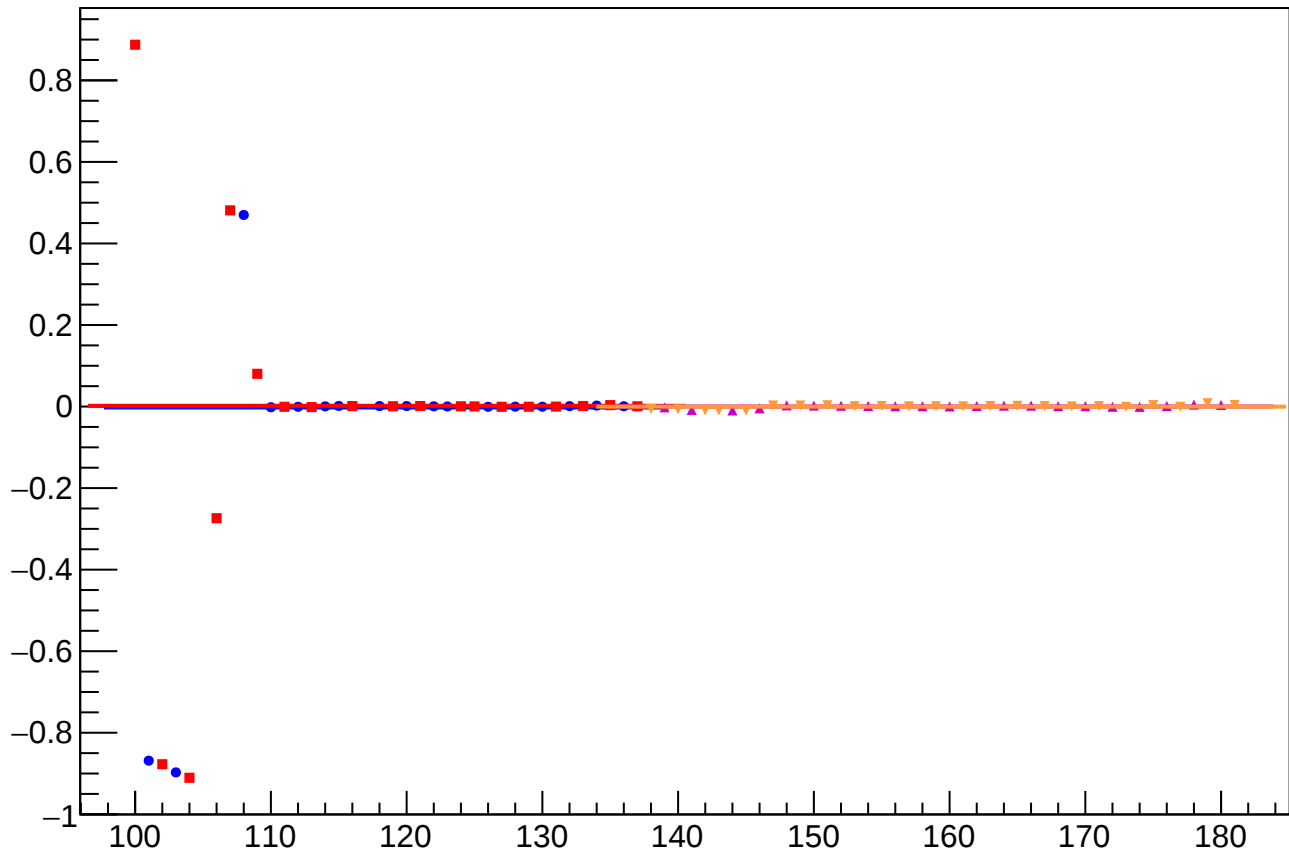
Right: 0.000+/-0.000 χ^2/NDF : 19651558.2/35

In: 0.000+/-0.000 χ^2/NDF :37459655.1/37

Out: 0.000+/-0.000 χ^2/NDF :39531146.4/41

All: 0.000+/-0.000 χ^2/NDF : 76991397.0/79

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795455603.3/16

Left Out: -0.000+/-0.000 χ^2/NDF : 138864490.4/22

Right Out: 0.002+/-0.000 χ^2/NDF : 3041330797.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 83194329.9/20

Left: -0.000+/-0.000 χ^2/NDF : 222345385.4/43

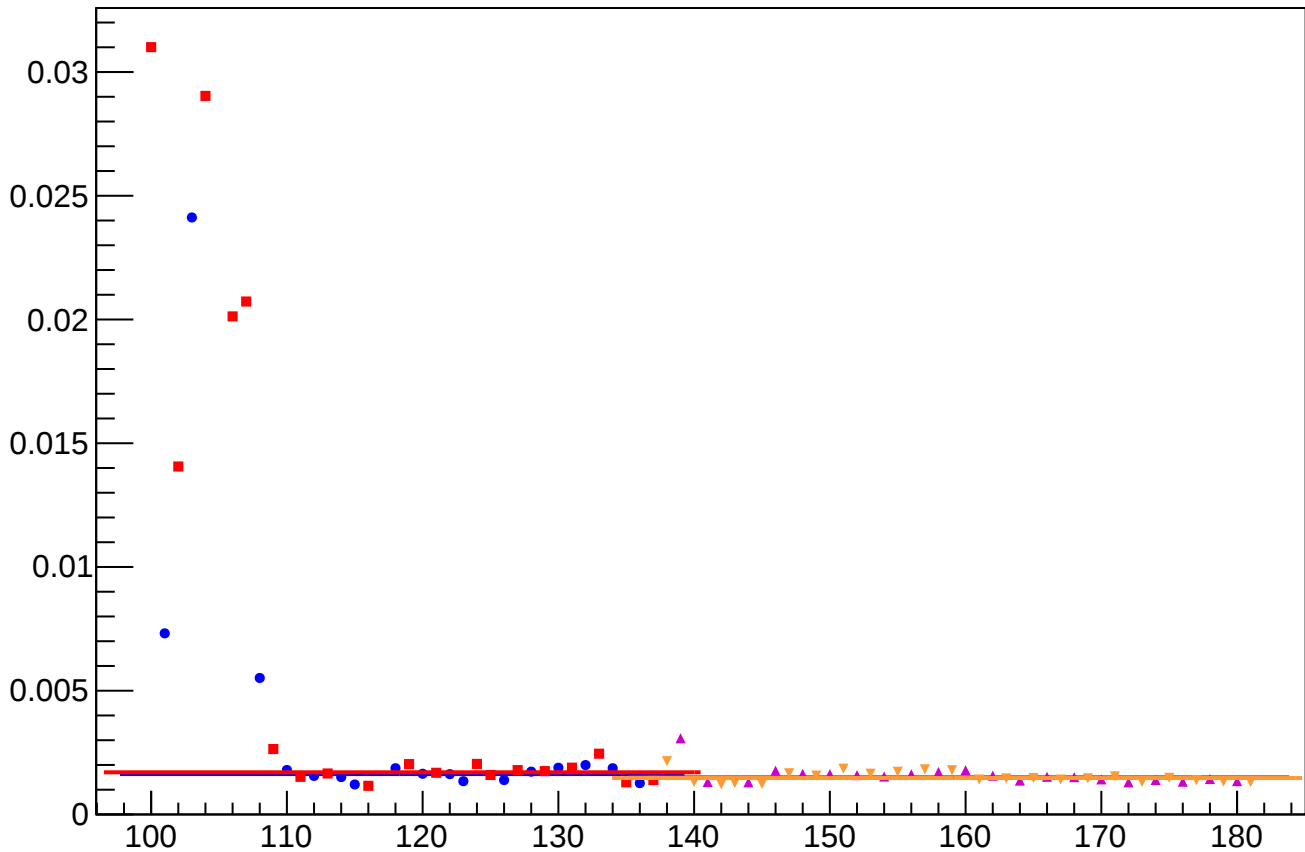
Right: -0.000+/-0.000 χ^2/NDF : 12850553248.4/35

In: -0.000+/-0.000 χ^2/NDF : 9886335954.1/37

Out: 0.000+/-0.000 χ^2/NDF : 3185263432.8/41

All: -0.000+/-0.000 χ^2/NDF : 13073123439.9/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1922148.8/16

Left Out: 0.001+/-0.000 χ^2/NDF : 508859.8/22

Right Out: 0.002+/-0.000 χ^2/NDF : 3024458.4/18

Left In: 0.002+/-0.000 χ^2/NDF : 620187.0/20

Left: 0.001+/-0.000 χ^2/NDF : 1134067.8/43

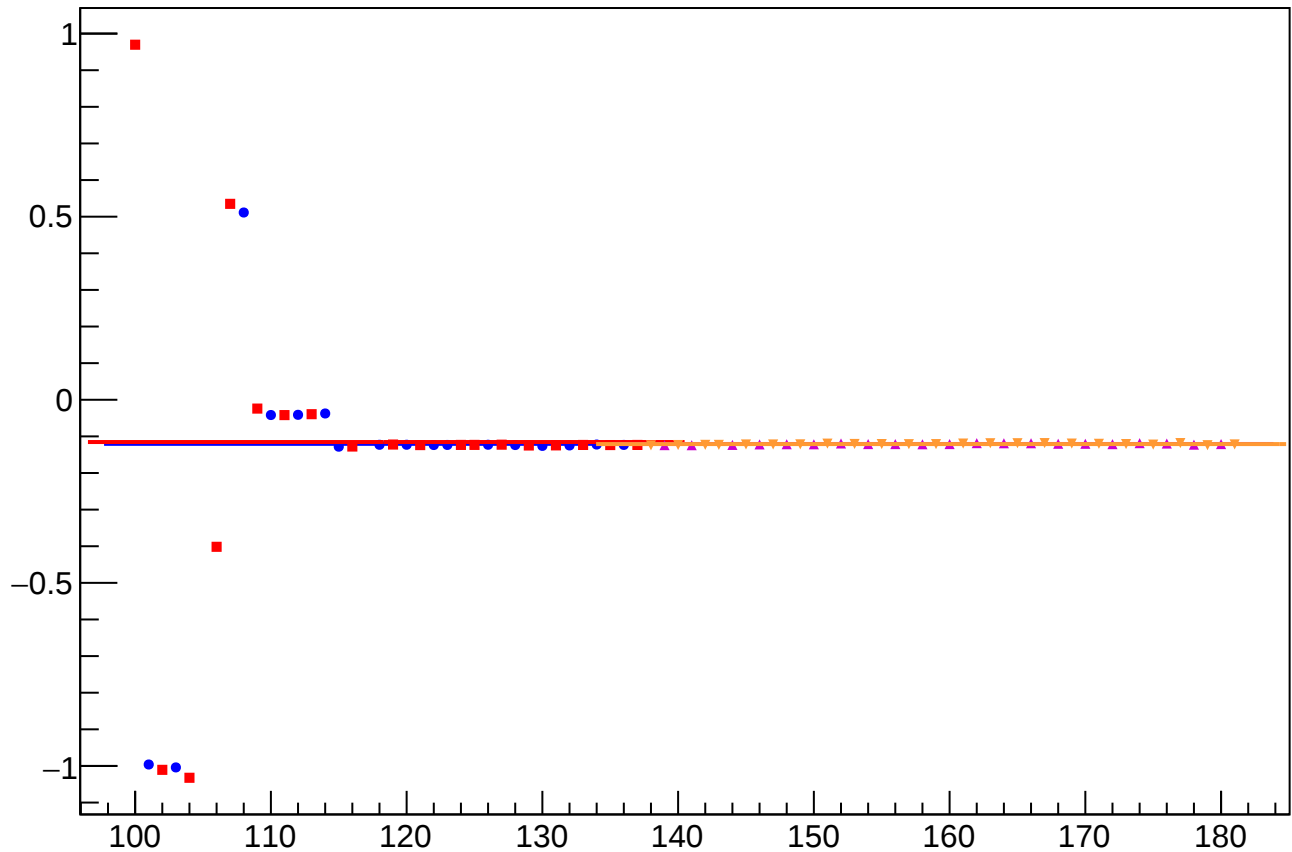
Right: 0.002+/-0.000 χ^2/NDF : 4954975.3/35

In: 0.002+/-0.000 χ^2/NDF : 2587734.4/37

Out: 0.002+/-0.000 χ^2/NDF : 3666569.6/41

All: 0.002+/-0.000 χ^2/NDF : 6255774.4/79

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000

χ^2/NDF : 3932772427.7/16

Left: -0.121+/-0.000

χ^2/NDF : 93125153.3/43

Left Out: -0.121+/-0.000

χ^2/NDF : 55265983.5/22

Right: -0.118+/-0.000

χ^2/NDF : 6412289085.1/35

Right Out: -0.115+/-0.000

χ^2/NDF : 2456433698.5/18

In: -0.121+/-0.000

χ^2/NDF : 3970248411.1/37

Out: -0.120+/-0.000

χ^2/NDF : 2565408331.1/41

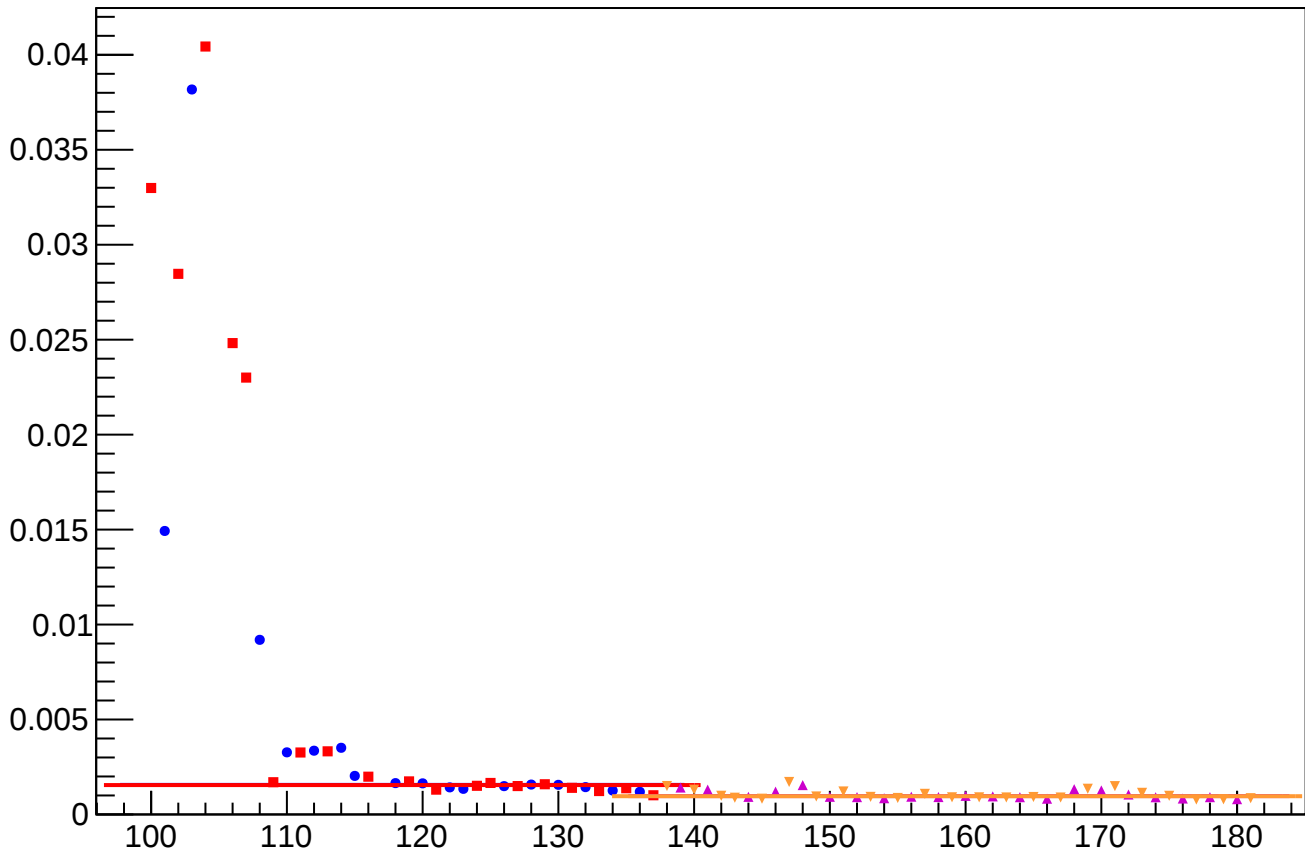
Left In: -0.121+/-0.000

χ^2/NDF : 37210624.7/20

All: -0.121+/-0.000

χ^2/NDF : 6536160206.3/7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2898219.2/16

Left Out: 0.001+/-0.000 χ^2/NDF :1238971.7/22

Right Out: 0.002+/-0.000 χ^2/NDF : 3535649.7/18

Left In: 0.001+/-0.000 χ^2/NDF :883746.9/20

Left: 0.001+/-0.000 χ^2/NDF : 2123514.2/43

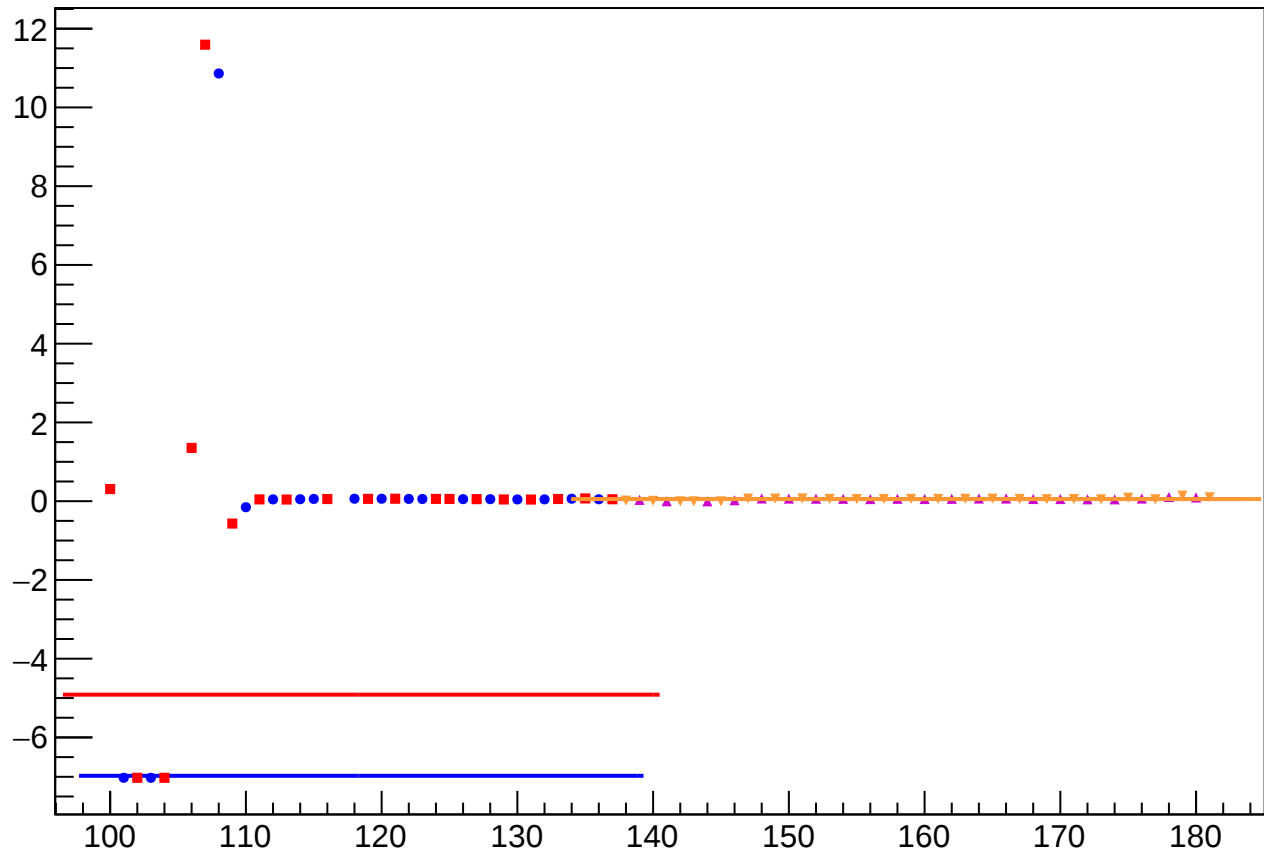
Right: 0.002+/-0.000 χ^2/NDF : 6434006.7/35

In: 0.001+/-0.000 χ^2/NDF :4956855.1/37

Out: 0.001+/-0.000 χ^2/NDF :5949965.0/41

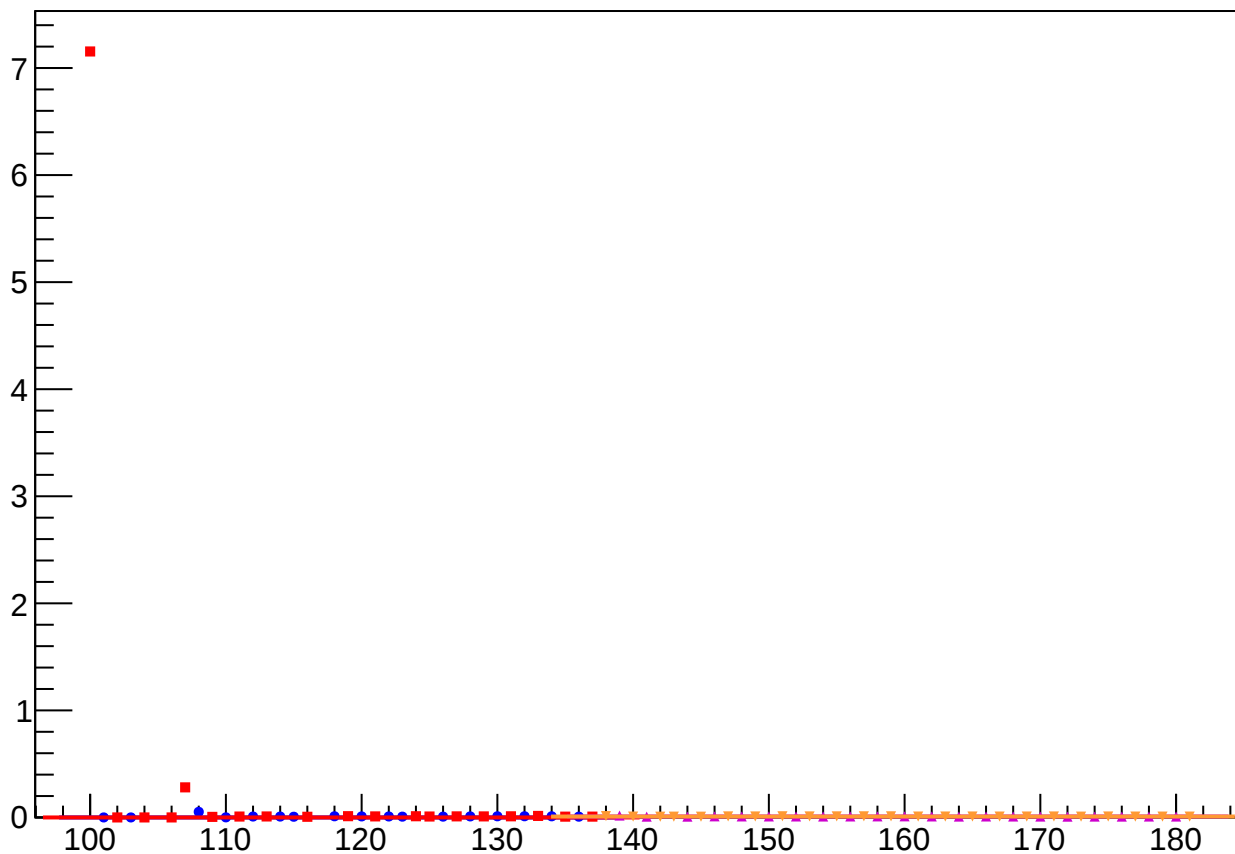
All: 0.001+/-0.000 χ^2/NDF : 10909135.8/79

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8797358006083.6/16
 Left Out: 0.054+/-0.000 χ^2/NDF : 220628490.3/22
 Right Out: -4.914+/-0.000 χ^2/NDF : 365352656389636.4/18
 Left In: 0.054+/-0.000 χ^2/NDF : 124843064.1/20
 Left: 0.054+/-0.000 χ^2/NDF : 345491908.4/43
 Right: -5.900+/-0.000 χ^2/NDF : 430333266539126.9
 In: -6.929+/-0.000 χ^2/NDF : 16956014929136.0/37
 Out: -4.881+/-0.000 χ^2/NDF : 369874454332786.0
 All: -5.861+/-0.000 χ^2/NDF : 4426816854034

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8350428.8/16

Left Out: 0.009+/-0.000 χ^2/NDF : 482502.0/22

Right Out: 0.000+/-0.000 χ^2/NDF : 8775433.1/18

Left In: 0.009+/-0.000 χ^2/NDF : 595070.5/20

Left: 0.009+/-0.000 χ^2/NDF : 1083202.9/43

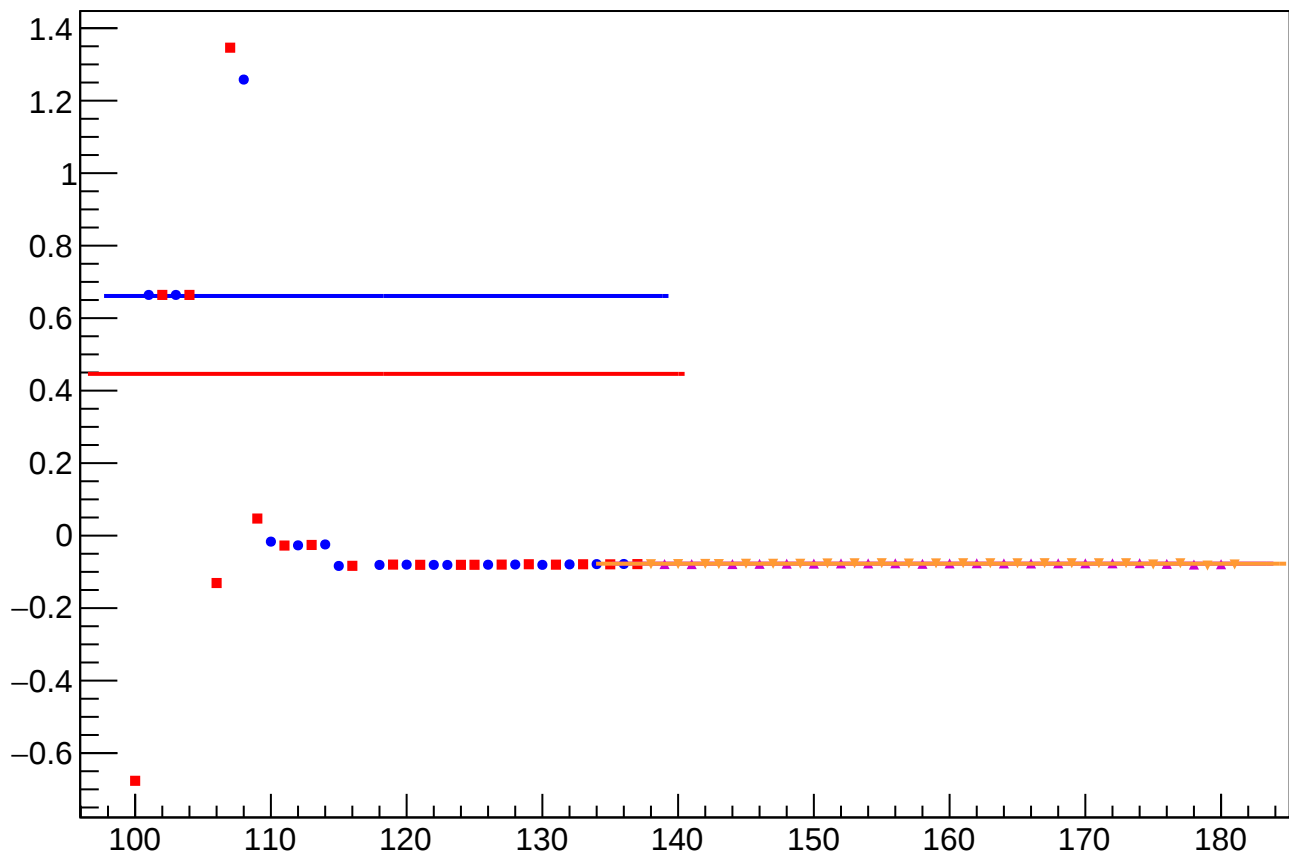
Right: 0.000+/-0.000 χ^2/NDF : 17126212.9/35

In: 0.000+/-0.000 χ^2/NDF : 34135383.4/37

Out: 0.000+/-0.000 χ^2/NDF : 36094434.7/41

All: 0.000+/-0.000 χ^2/NDF : 70230204.7/79

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5658672217179.3/16

Left Out: -0.077+/-0.000

χ^2/NDF : 144525720.8/22

Right Out: 0.446+/-0.000

χ^2/NDF : 405428422570886.0/18

Left In: -0.077+/-0.000

χ^2/NDF : 54329976.2/20

Left: -0.077+/-0.000

χ^2/NDF : 199897819.4/43

Right: 0.549+/-0.000

χ^2/NDF : 474000383494468.1

In: 0.647+/-0.000

χ^2/NDF : 32134835617300.3/37

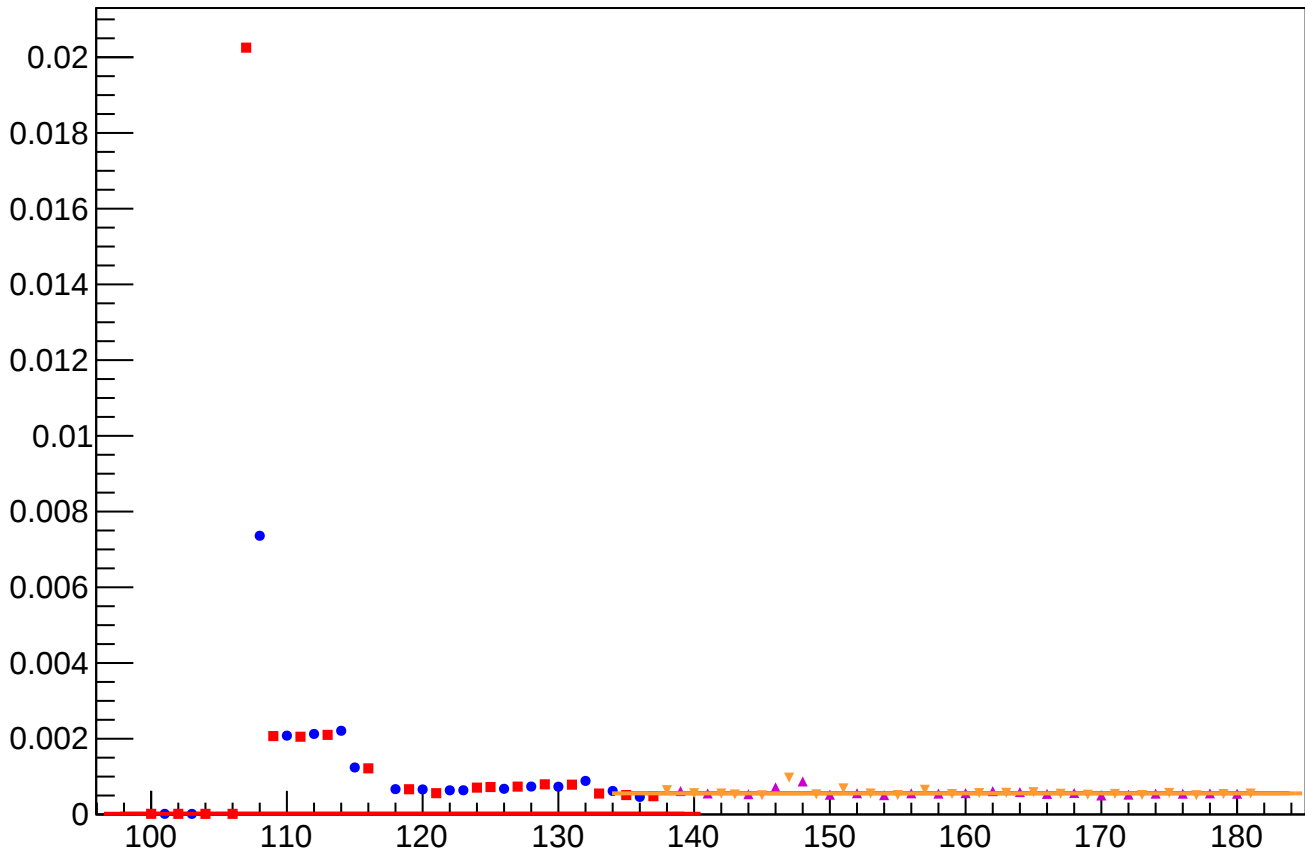
Out: 0.437+/-0.000

χ^2/NDF : 419795560142776.5/4

All: 0.537+/-0.000

χ^2/NDF : 51358314636223

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9958320.7/16

Left Out: 0.001+/-0.000 χ^2/NDF : 457073.6/22

Right Out: 0.000+/-0.000 χ^2/NDF : 9460895.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 354205.6/20

Left: 0.001+/-0.000 χ^2/NDF : 812146.9/43

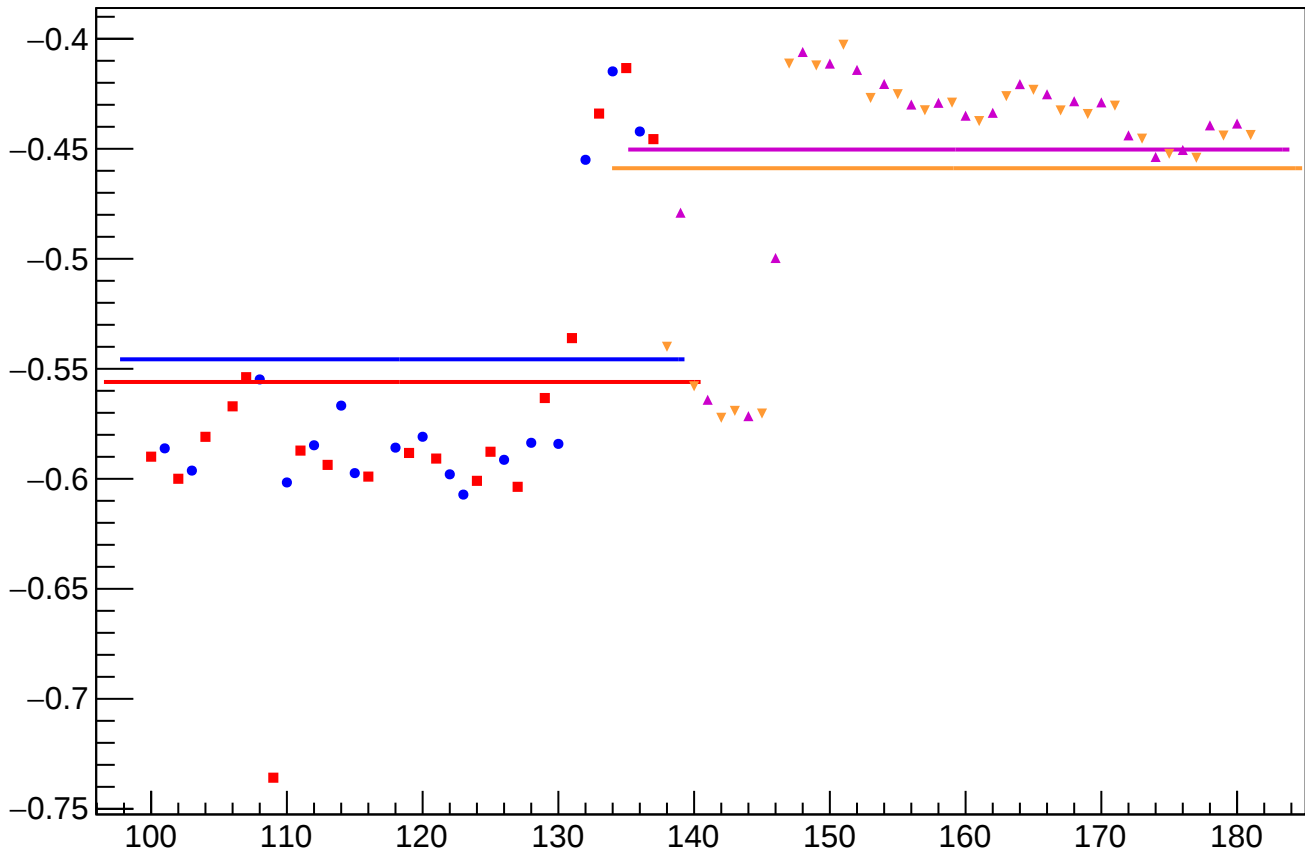
Right: 0.000+/-0.000 χ^2/NDF : 19419231.6/35

In: 0.000+/-0.000 χ^2/NDF : 38924819.3/37

Out: 0.000+/-0.000 χ^2/NDF : 40326989.4/41

All: 0.000+/-0.000 χ^2/NDF : 79252052.4/79

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546+/-0.000 χ^2/NDF : 46331446.0/16

Left Out: -0.459+/-0.000 χ^2/NDF : 107748221.0/22

Right Out: -0.556+/-0.000 χ^2/NDF : 64058429.8/18

Left In: -0.450+/-0.000 χ^2/NDF : 75901940.6/20

Left: -0.455+/-0.000 χ^2/NDF : 184946452.8/43

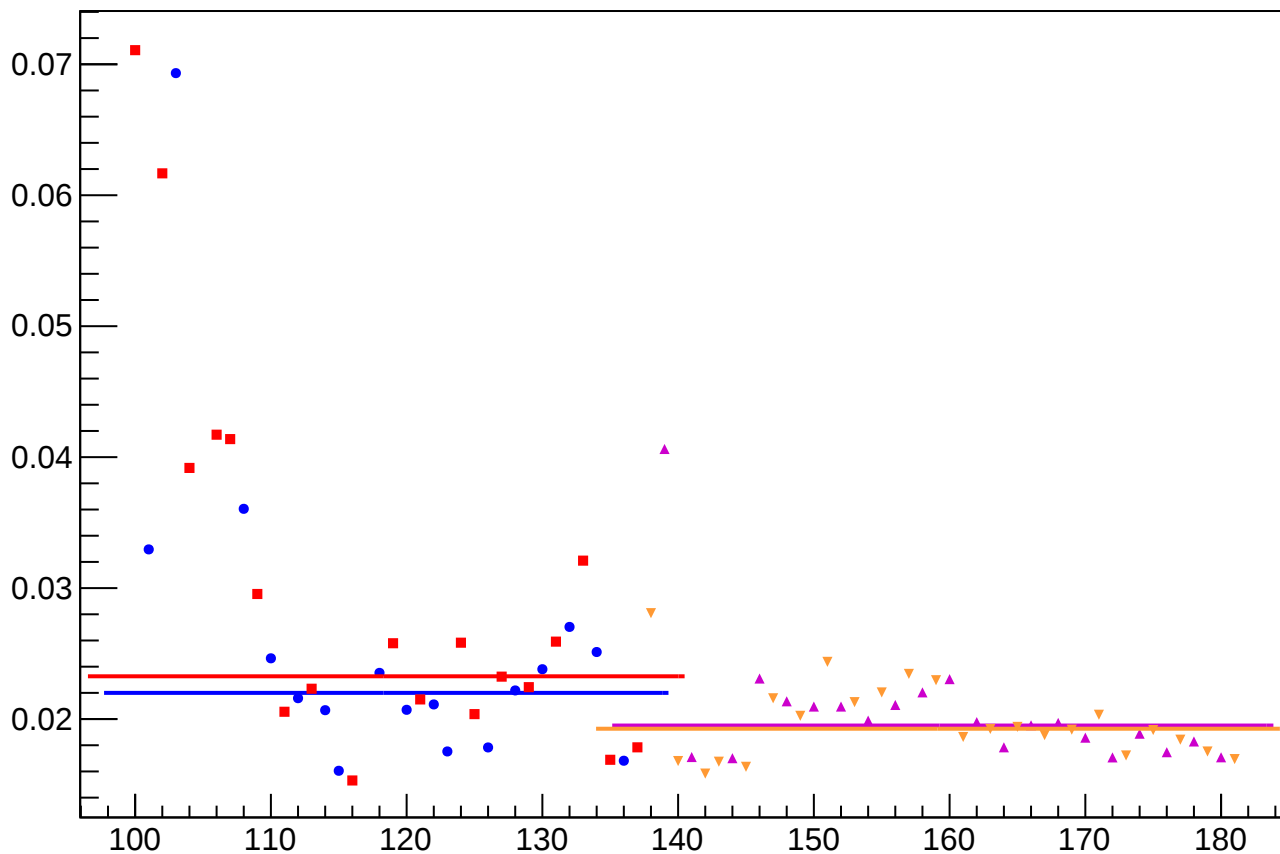
Right: -0.551+/-0.000 χ^2/NDF : 110929363.5/35

In: -0.473+/-0.000 χ^2/NDF : 195559392.3/37

Out: -0.479+/-0.000 χ^2/NDF : 245407429.3/41

All: -0.476+/-0.000 χ^2/NDF : 441865281.7/79

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 959677.4/16

Left Out: 0.019+/-0.000 χ^2/NDF : 475471.5/22

Right Out: 0.023+/-0.000 χ^2/NDF : 1155060.8/18

Left In: 0.020+/-0.000 χ^2/NDF : 614295.2/20

Left: 0.019+/-0.000 χ^2/NDF : 1091904.4/43

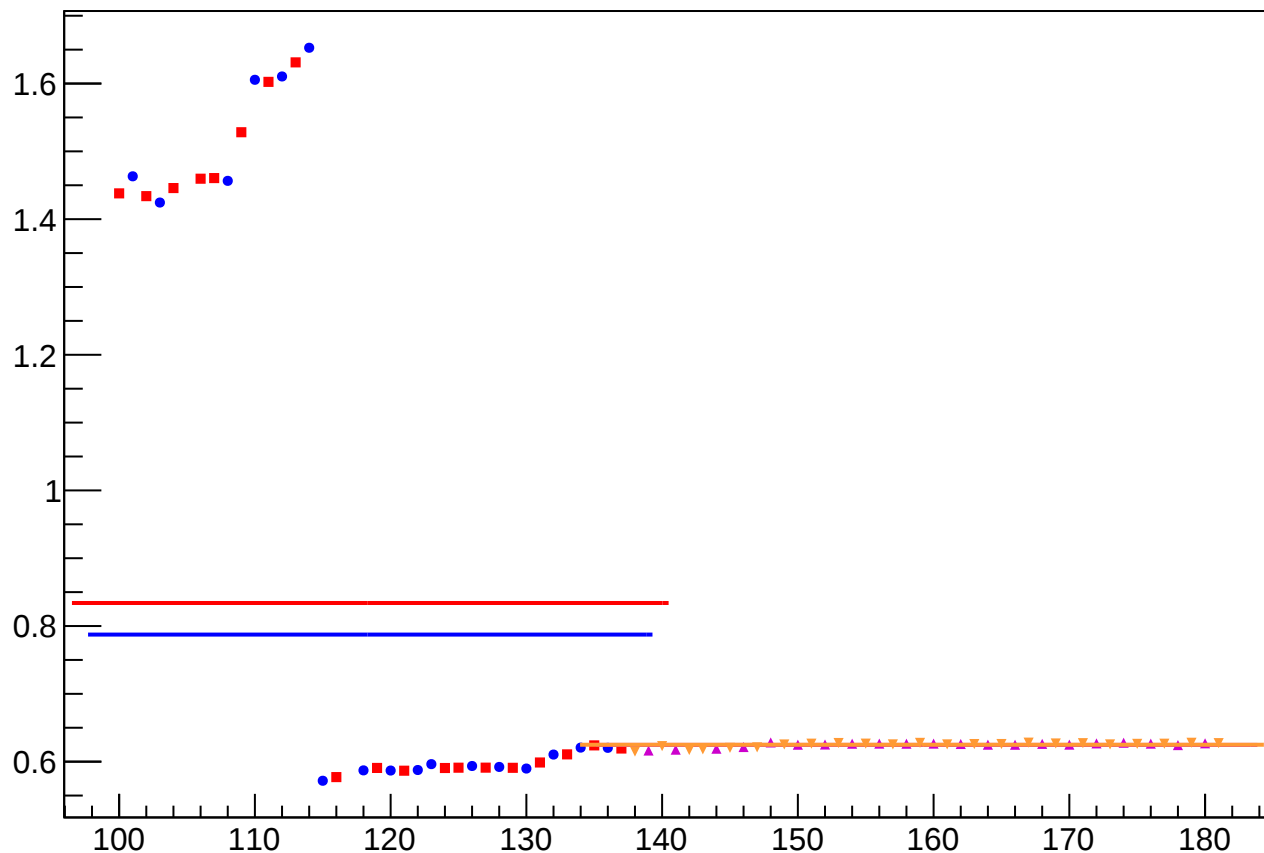
Right: 0.023+/-0.000 χ^2/NDF : 2131038.0/35

In: 0.020+/-0.000 χ^2/NDF : 1674309.7/37

Out: 0.020+/-0.000 χ^2/NDF : 1880495.2/41

All: 0.020+/-0.000 χ^2/NDF : 3554804.9/79

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.787 $\pm$ 0.000 χ^2 /NDF: 3581416919.1/16

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1385341.3/22

Right Out: 0.834 $\pm$ 0.000 χ^2 /NDF: 4150651936.4/18

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1103409.5/20

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2492765.6/43

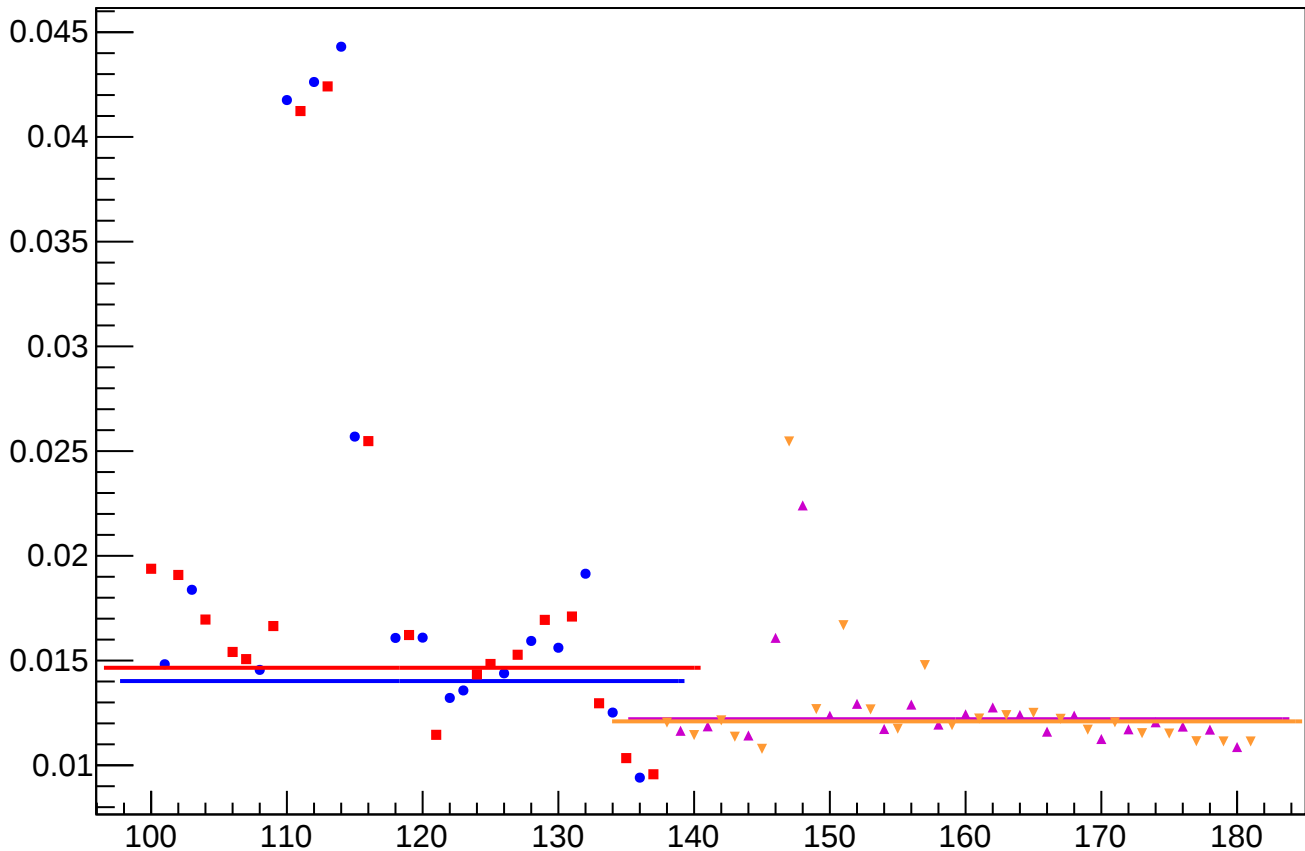
Right: 0.810 $\pm$ 0.000 χ^2 /NDF: 7762825893.7/35

In: 0.660 $\pm$ 0.000 χ^2 /NDF:4181350448.3/37

Out: 0.666 $\pm$ 0.000 χ^2 /NDF:5131200053.5/41

All: 0.663 $\pm$ 0.000 χ^2 /NDF: 9315486671.1/79

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1399935.4/16

Left Out: 0.012+/-0.000 χ^2/NDF : 654214.6/22

Right Out: 0.015+/-0.000 χ^2/NDF : 1262071.4/18

Left In: 0.012+/-0.000 χ^2/NDF : 476411.8/20

Left: 0.012+/-0.000 χ^2/NDF : 1131795.9/43

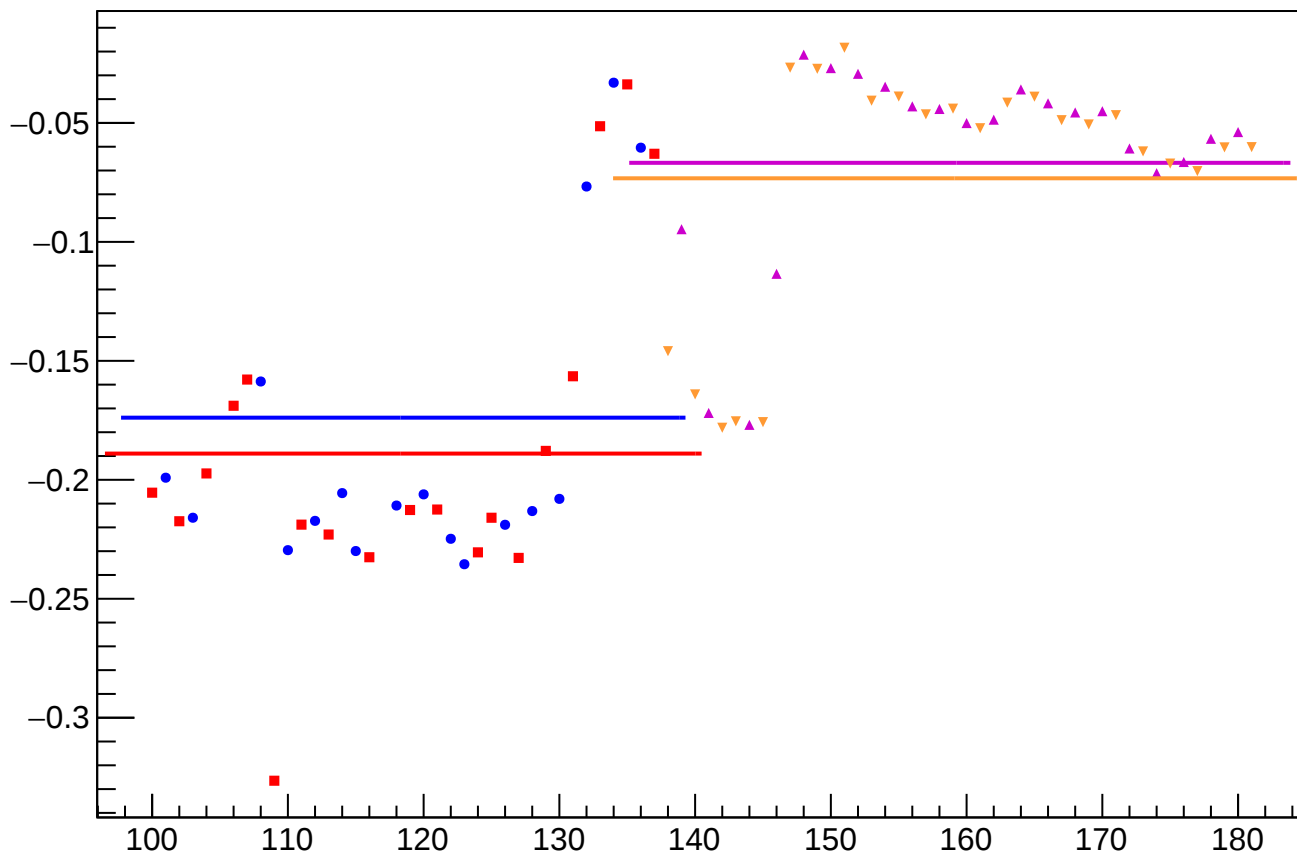
Right: 0.014+/-0.000 χ^2/NDF : 2673402.9/35

In: 0.013+/-0.000 χ^2/NDF : 2026386.9/37

Out: 0.013+/-0.000 χ^2/NDF : 2209715.2/41

All: 0.013+/-0.000 χ^2/NDF : 4236115.3/79

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 66778428.3/16

Left Out: -0.073+/-0.000 χ^2/NDF : 101973043.4/22

Right Out: -0.189+/-0.000 χ^2/NDF : 81975900.9/18

Left In: -0.067+/-0.000 χ^2/NDF : 76078364.1/20

Left: -0.070+/-0.000 χ^2/NDF : 178832801.3/43

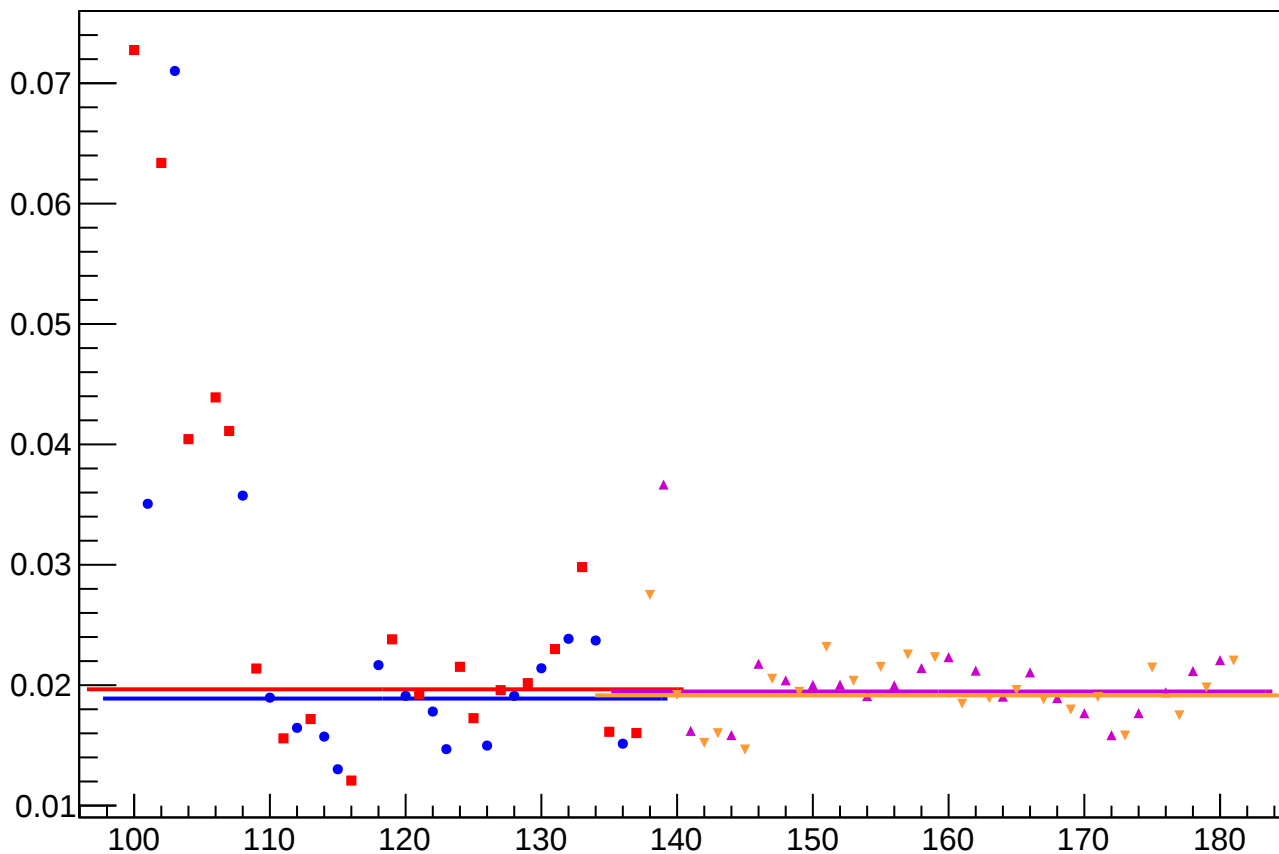
Right: -0.181+/-0.000 χ^2/NDF : 150315642.4/35

In: -0.097+/-0.000 χ^2/NDF : 257855020.5/37

Out: -0.103+/-0.000 χ^2/NDF : 317337372.1/41

All: -0.100+/-0.000 χ^2/NDF : 576018954.9/79

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1211816.5/16

Left Out: 0.019+/-0.000 χ^2/NDF : 534369.9/22

Right Out: 0.020+/-0.000 χ^2/NDF : 1454143.7/18

Left In: 0.019+/-0.000 χ^2/NDF : 595223.7/20

Left: 0.019+/-0.000 χ^2/NDF : 1133431.9/43

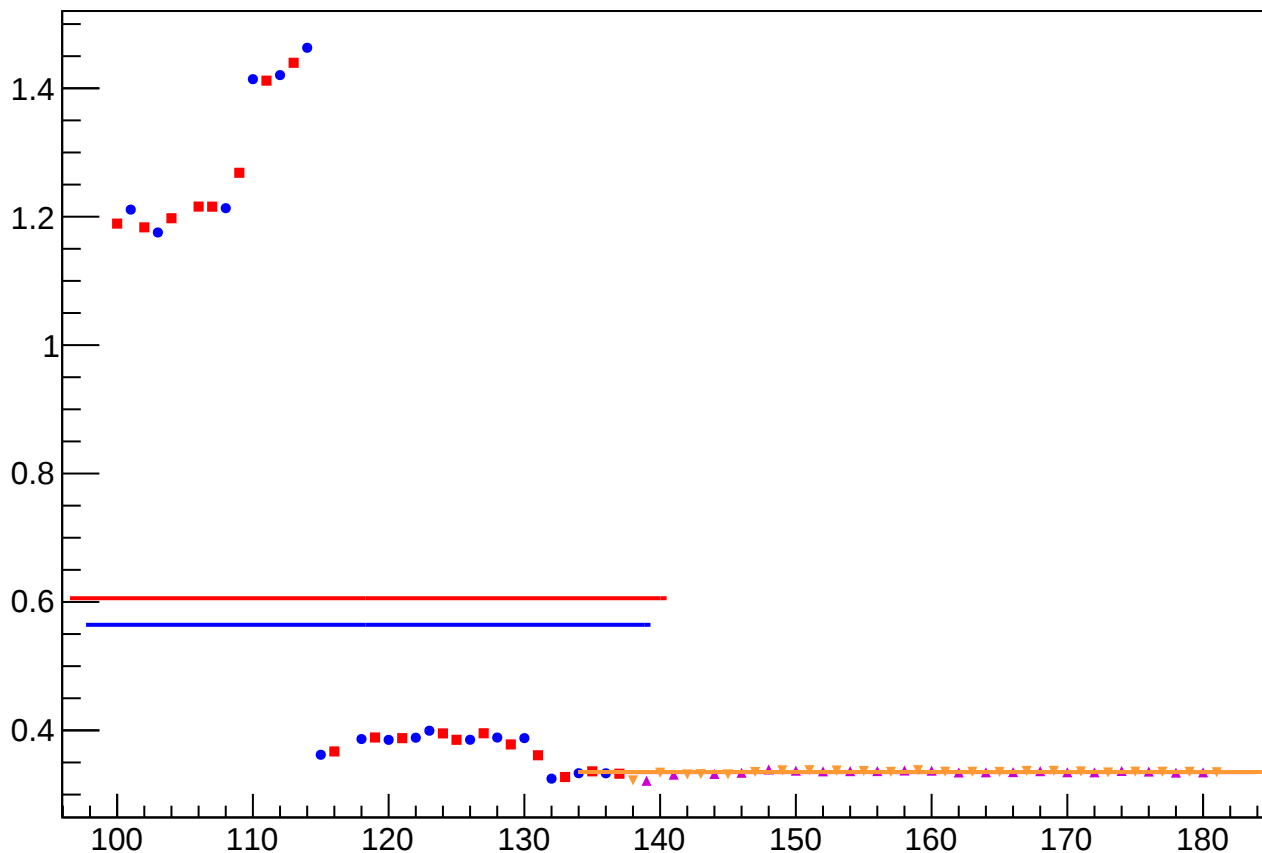
Right: 0.019+/-0.000 χ^2/NDF : 2674059.2/35

In: 0.019+/-0.000 χ^2/NDF : 1813931.3/37

Out: 0.019+/-0.000 χ^2/NDF : 1993594.3/41

All: 0.019+/-0.000 χ^2/NDF : 3807559.5/79

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.564 $\pm$ 0.000 χ^2 /NDF: 5040911893.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1138165.0/22

Right Out: 0.606 $\pm$ 0.000 χ^2 /NDF: 5529469116.6/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1199416.2/20

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2338896.6/43

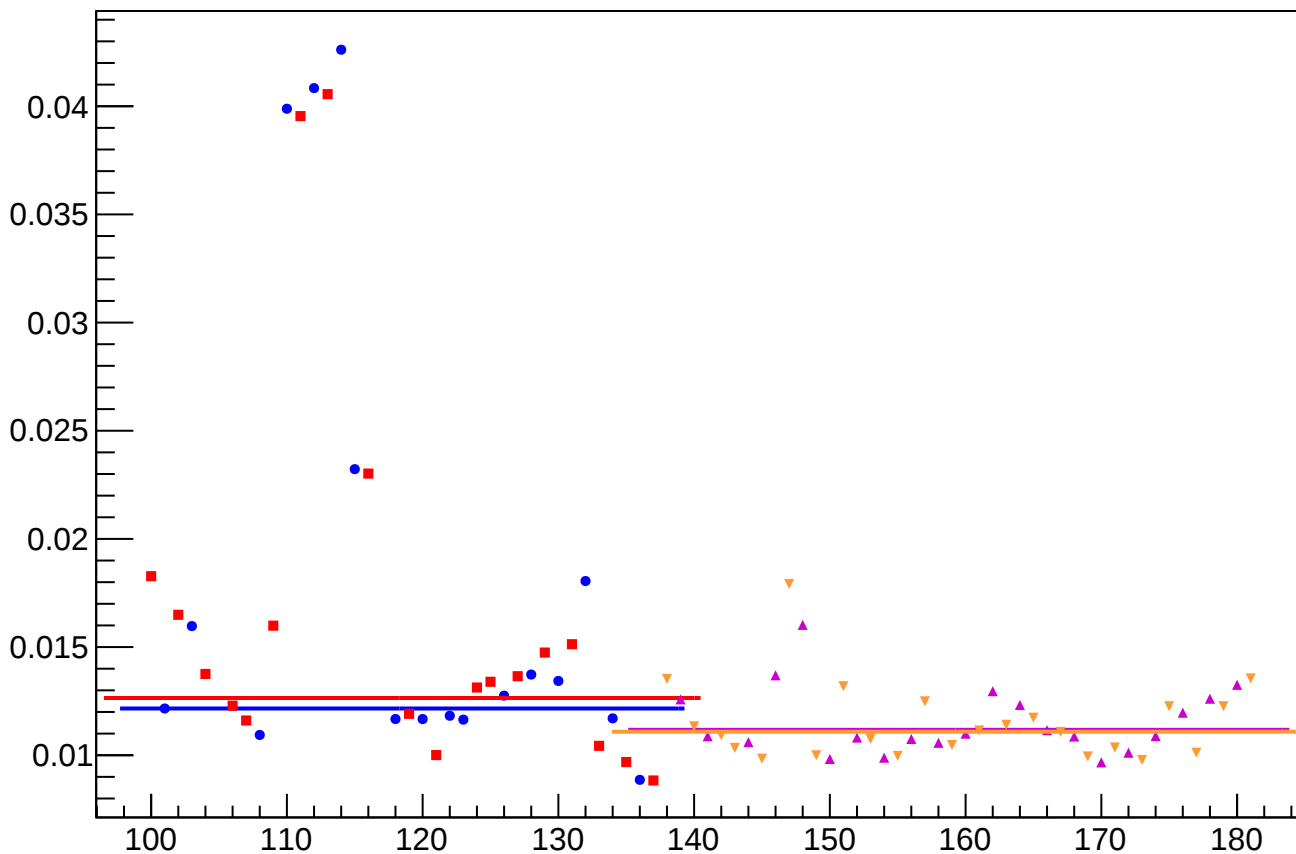
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 10602472583.7/35

In: 0.389 $\pm$ 0.000 χ^2 /NDF:6579752003.0/37

Out: 0.393 $\pm$ 0.000 χ^2 /NDF:7643064007.0/41

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 14224364192.5/77

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1304124.1/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:548914.3/22

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1268972.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:444426.2/20

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 994334.4/43

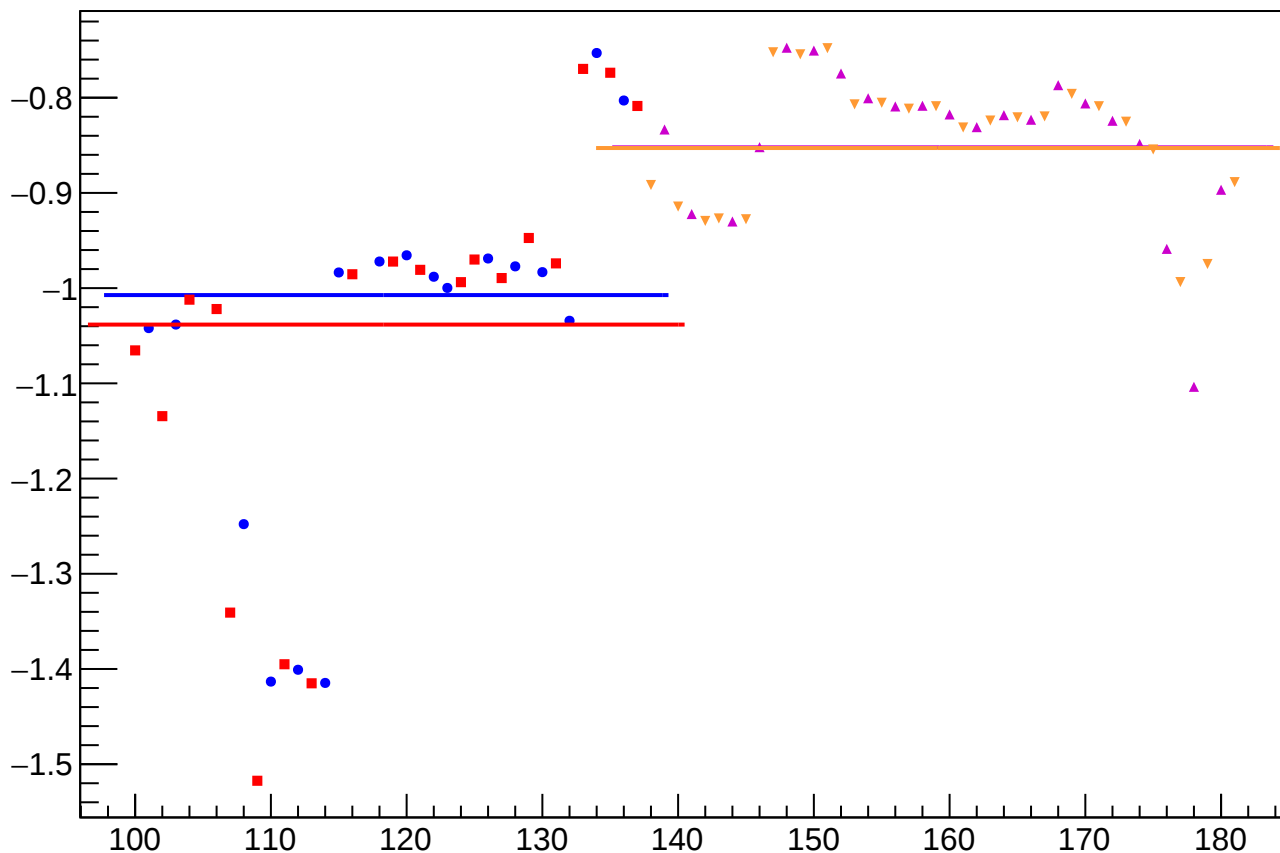
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2581927.2/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1805311.4/37

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1958043.7/41

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3763393.6/79

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.007 ± 0.000 χ^2/NDF : 393589325.7/16

Left Out: -0.853 ± 0.000 χ^2/NDF : 183360296.2/22

Right Out: -1.038 ± 0.000 χ^2/NDF : 535629570.0/18

Left In: -0.852 ± 0.000 χ^2/NDF : 251810839.0/20

Left: -0.853 ± 0.000 χ^2/NDF : 435181748.8/43

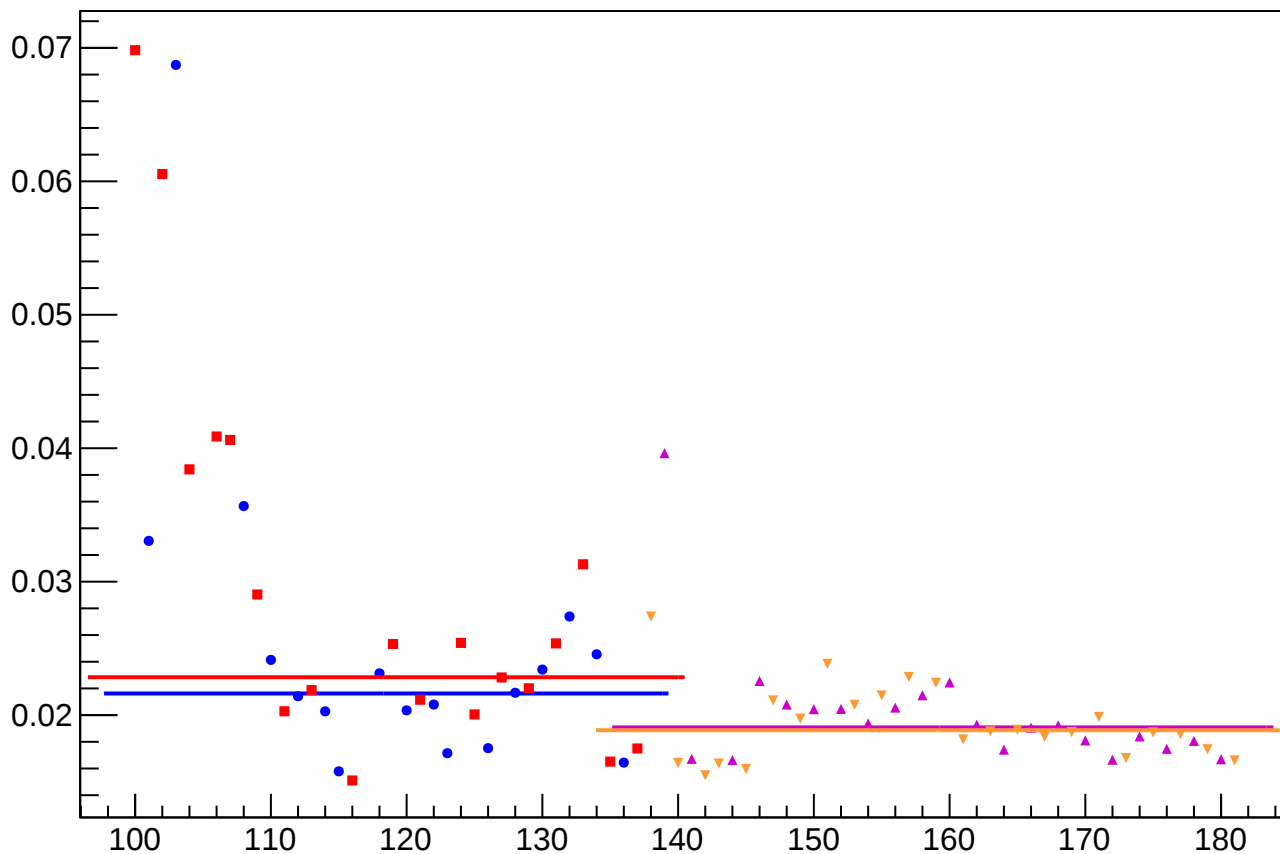
Right: -1.022 ± 0.000 χ^2/NDF : 934274584.5/35

In: -0.888 ± 0.000 χ^2/NDF : 846709619.8/37

Out: -0.891 ± 0.000 χ^2/NDF : 996933837.4/41

All: -0.890 ± 0.000 χ^2/NDF : 1843844279.0/77

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 984588.1/16

Left Out: 0.019+/-0.000 χ^2/NDF : 464168.6/22

Right Out: 0.023+/-0.000 χ^2/NDF : 1150914.8/18

Left In: 0.019+/-0.000 χ^2/NDF : 602277.4/20

Left: 0.019+/-0.000 χ^2/NDF : 1068151.1/43

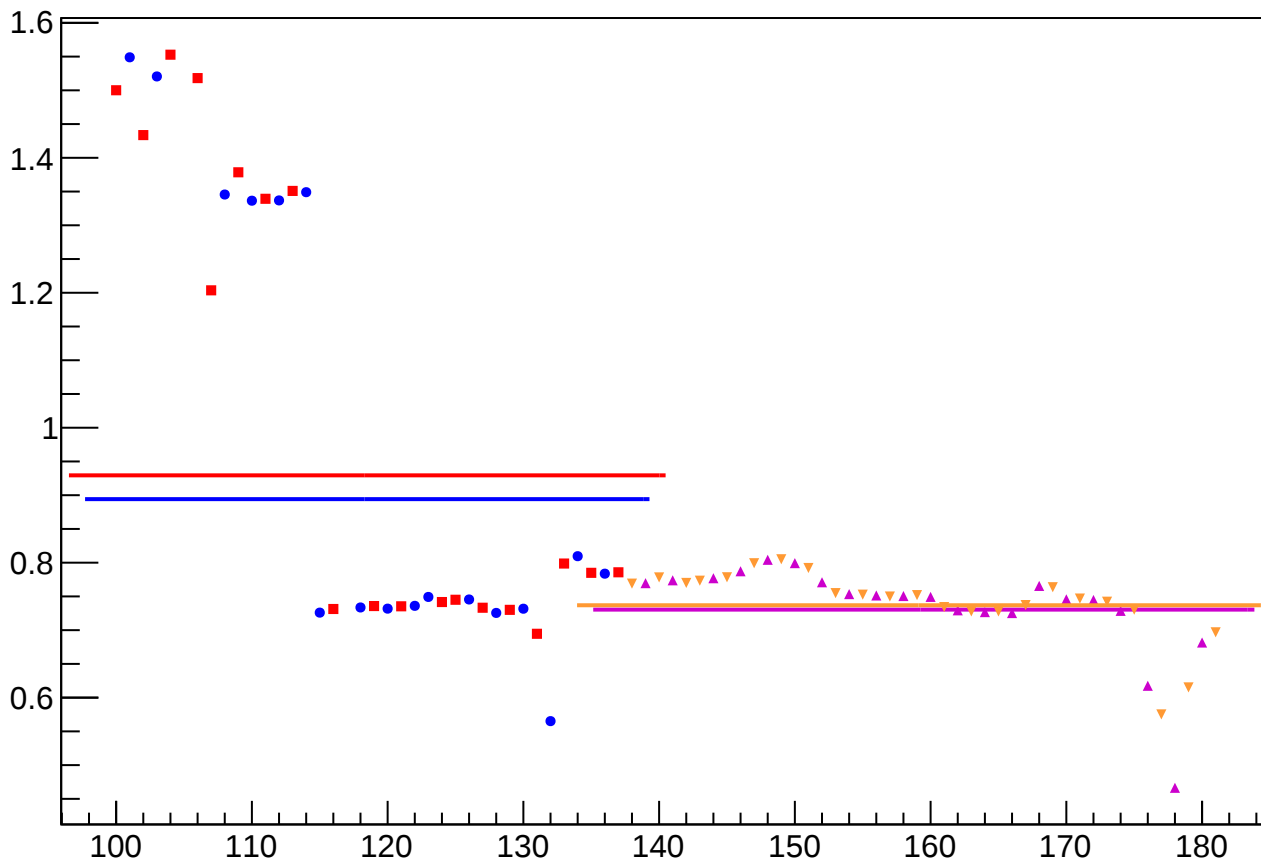
Right: 0.022+/-0.000 χ^2/NDF : 2151098.1/35

In: 0.020+/-0.000 χ^2/NDF : 1694831.8/37

Out: 0.020+/-0.000 χ^2/NDF : 1870107.8/41

All: 0.020+/-0.000 χ^2/NDF : 3564949.6/79

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.894 $\pm$ 0.000 χ^2 /NDF: 2399022212.9/16

Left Out: 0.737 $\pm$ 0.000 χ^2 /NDF: 326010734.7/22

Right Out: 0.929 $\pm$ 0.000 χ^2 /NDF: 2422023767.8/18

Left In: 0.730 $\pm$ 0.000 χ^2 /NDF: 558110540.2/20

Left: 0.734 $\pm$ 0.000 χ^2 /NDF: 886380761.4/43

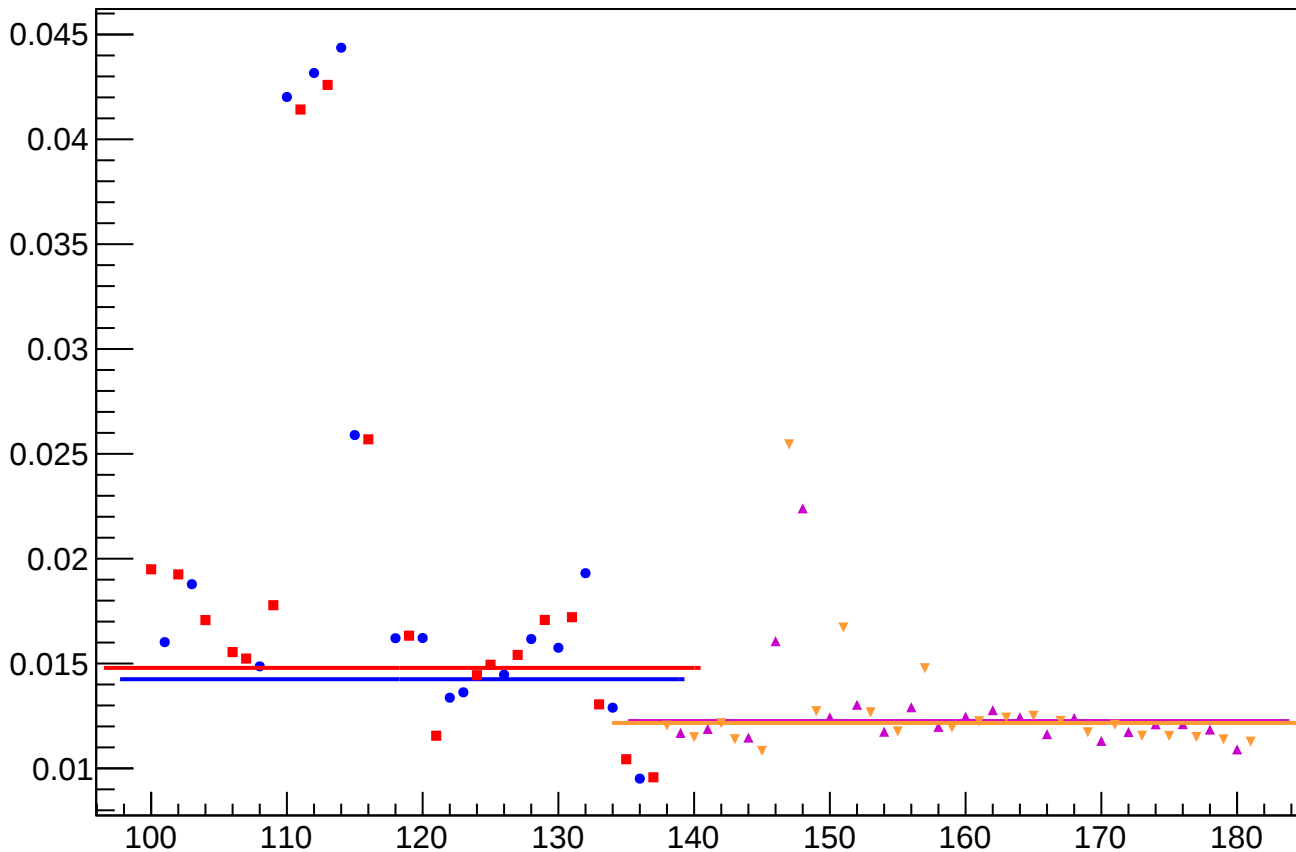
Right: 0.912 $\pm$ 0.000 χ^2 /NDF: 4838135937.4/35

In: 0.765 $\pm$ 0.000 χ^2 /NDF: 3544068222.4/37

Out: 0.775 $\pm$ 0.000 χ^2 /NDF: 3561220674.4/41

All: 0.770 $\pm$ 0.000 χ^2 /NDF: 7111749458.5/79

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1409964.0/16

Left Out: 0.012+/-0.000 χ^2/NDF : 634242.6/22

Right Out: 0.015+/-0.000 χ^2/NDF : 1271820.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 469537.3/20

Left: 0.012+/-0.000 χ^2/NDF : 1104625.6/43

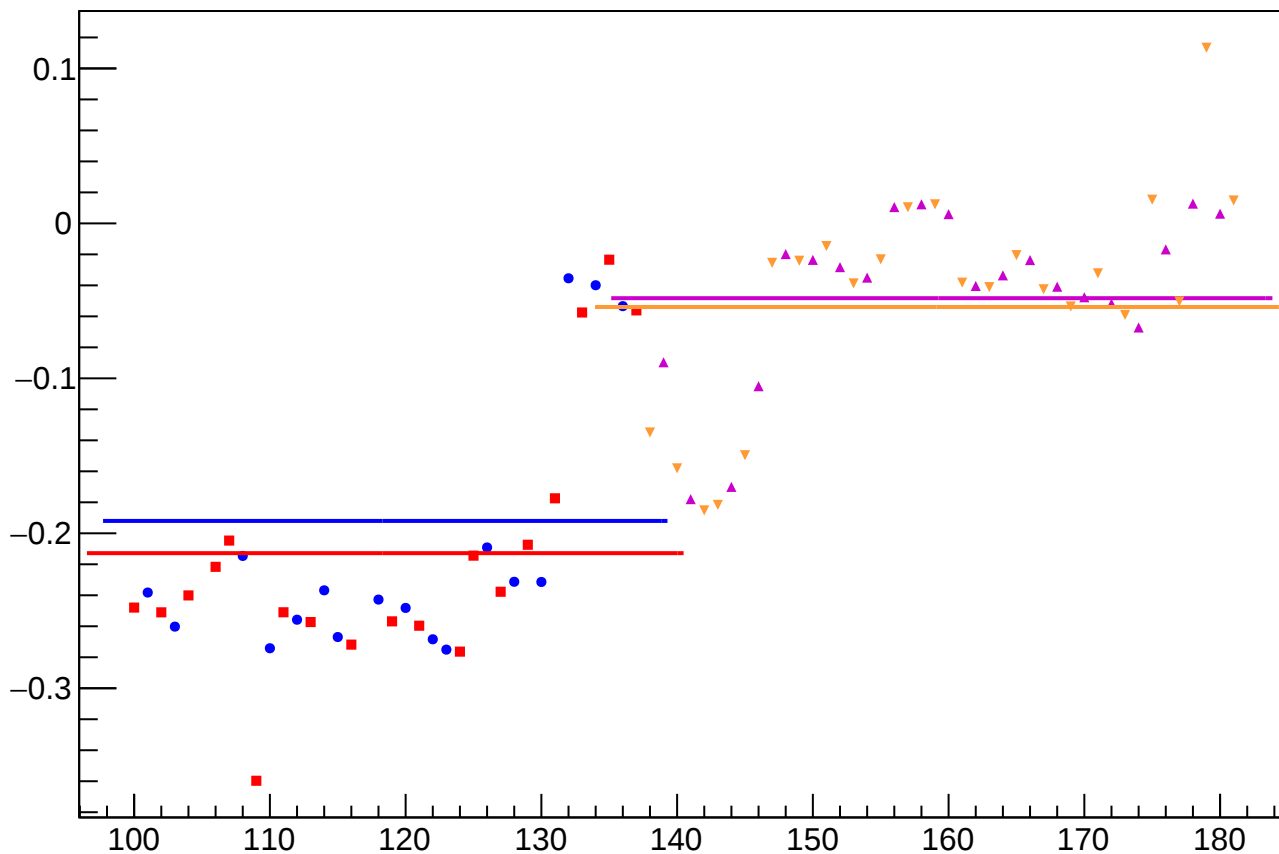
Right: 0.015+/-0.000 χ^2/NDF : 2689819.1/35

In: 0.013+/-0.000 χ^2/NDF : 2054051.5/37

Out: 0.013+/-0.000 χ^2/NDF : 2208550.5/41

All: 0.013+/-0.000 χ^2/NDF : 4262607.0/79

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.192+/-0.000 χ^2/NDF : 106200458.9/16

Left Out: -0.054+/-0.000 χ^2/NDF : 154102130.1/22

Right Out: -0.213+/-0.000 χ^2/NDF : 110522593.6/18

Left In: -0.048+/-0.000 χ^2/NDF : 112757930.4/20

Left: -0.051+/-0.000 χ^2/NDF : 267458125.6/43

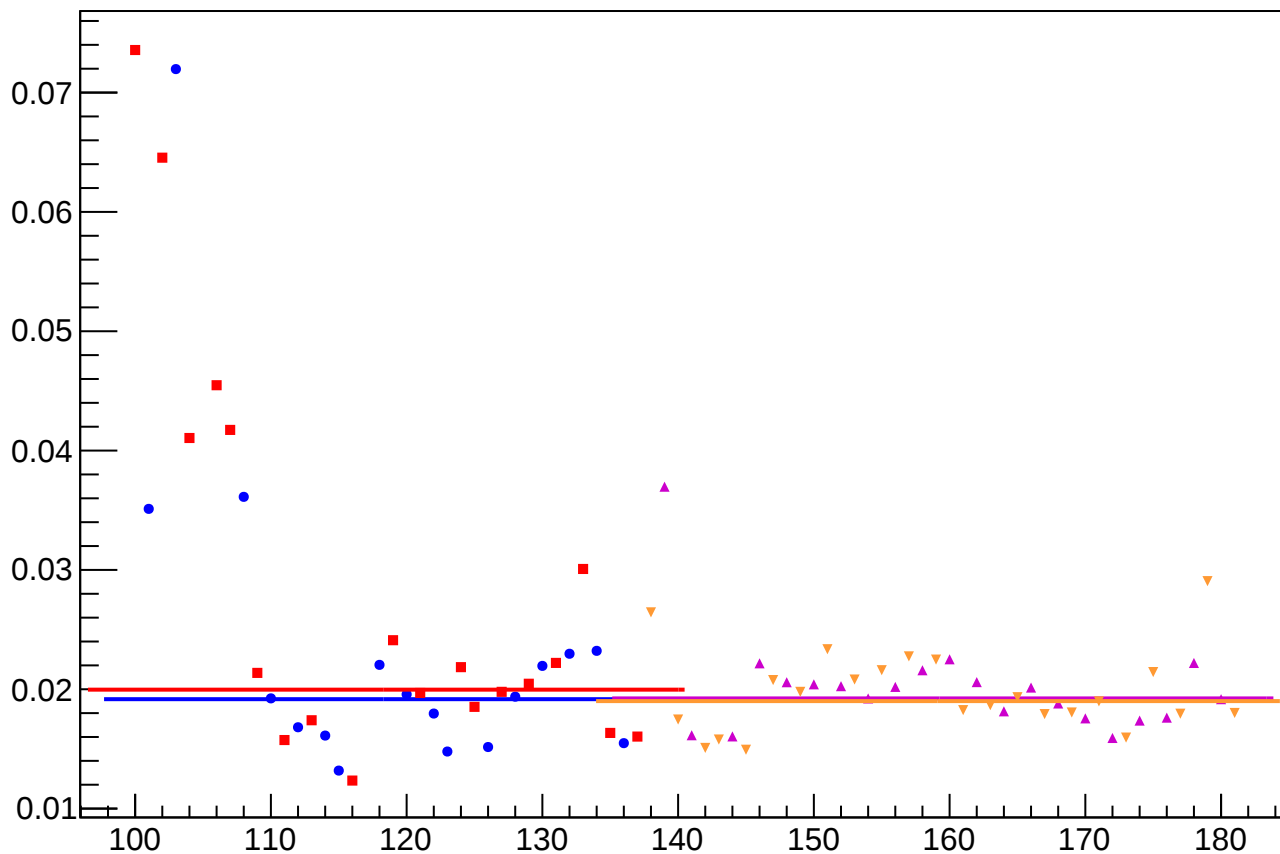
Right: -0.202+/-0.000 χ^2/NDF : 219599085.5/35

In: -0.088+/-0.000 χ^2/NDF : 422643043.9/37

Out: -0.094+/-0.000 χ^2/NDF : 509096500.3/41

All: -0.091+/-0.000 χ^2/NDF : 932689110.3/79

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1182752.8/16

Left Out: 0.019+/-0.000 χ^2/NDF : 613996.5/22

Right Out: 0.020+/-0.000 χ^2/NDF : 1445067.6/18

Left In: 0.019+/-0.000 χ^2/NDF : 605943.5/20

Left: 0.019+/-0.000 χ^2/NDF : 1221815.0/43

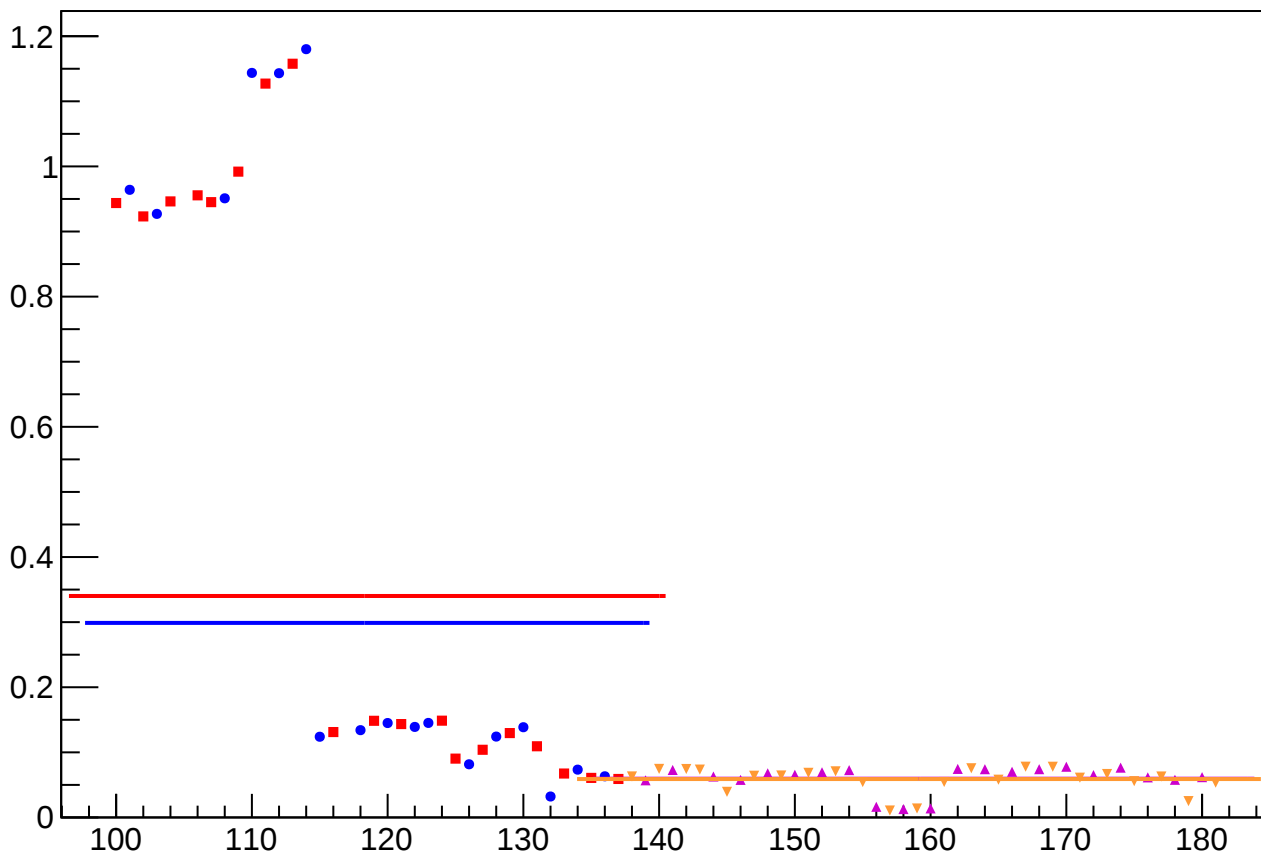
Right: 0.020+/-0.000 χ^2/NDF : 2636287.3/35

In: 0.019+/-0.000 χ^2/NDF : 1788777.5/37

Out: 0.019+/-0.000 χ^2/NDF : 2076896.6/41

All: 0.019+/-0.000 χ^2/NDF : 3865736.4/79

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.299+/-0.000 χ^2/NDF : 5180137730.5/16

Left Out: 0.059+/-0.000 χ^2/NDF : 46162977.8/22

Right Out: 0.340+/-0.000 χ^2/NDF : 5473541358.4/18

Left In: 0.060+/-0.000 χ^2/NDF : 57266116.8/20

Left: 0.059+/-0.000 χ^2/NDF : 103449004.5/43

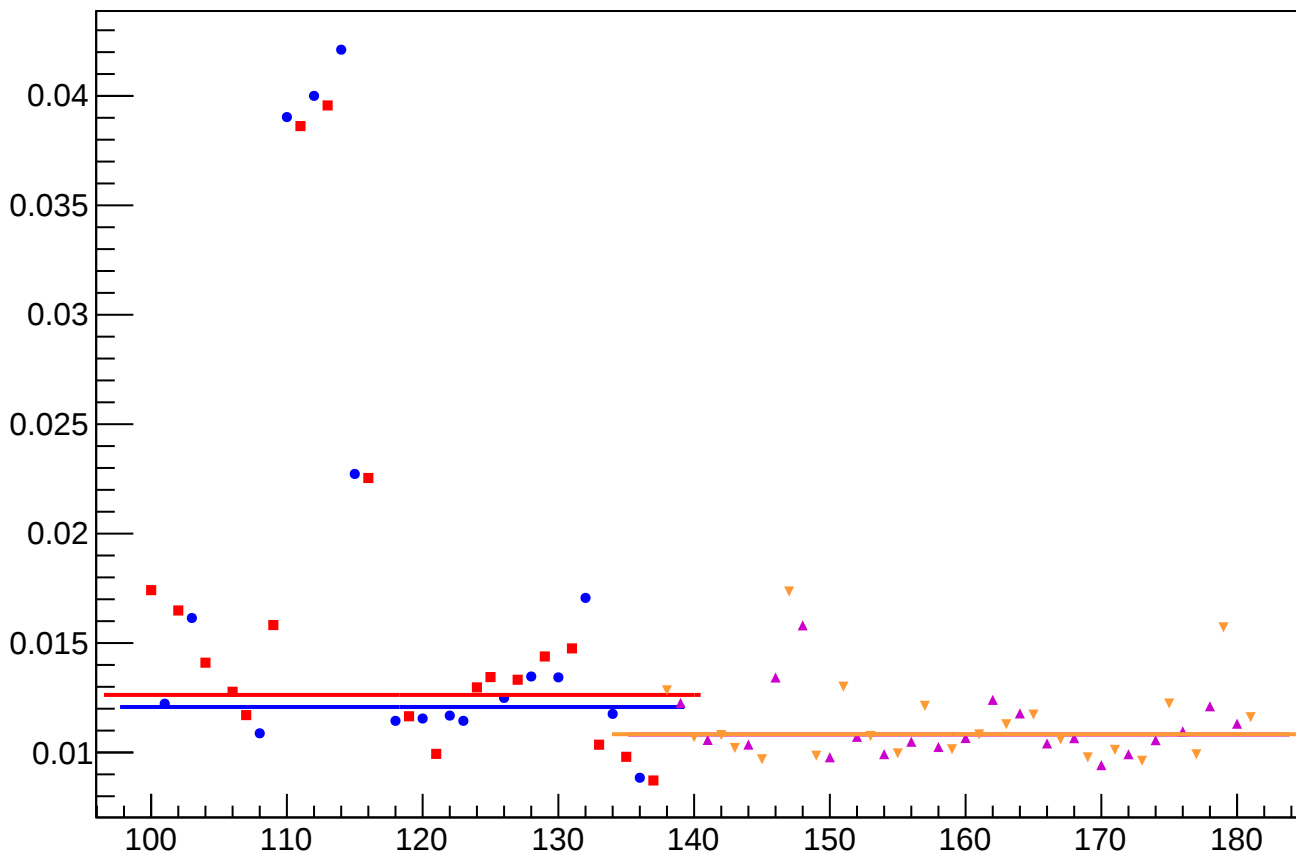
Right: 0.319+/-0.000 χ^2/NDF : 10685960138.1/35

In: 0.114+/-0.000 χ^2/NDF : 6953285843.7/37

Out: 0.118+/-0.000 χ^2/NDF : 7815663494.1/41

All: 0.116+/-0.000 χ^2/NDF : 14770754668.7/71

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1276713.5/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:542119.7/22

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1235880.5/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:369762.5/20

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 911909.2/43

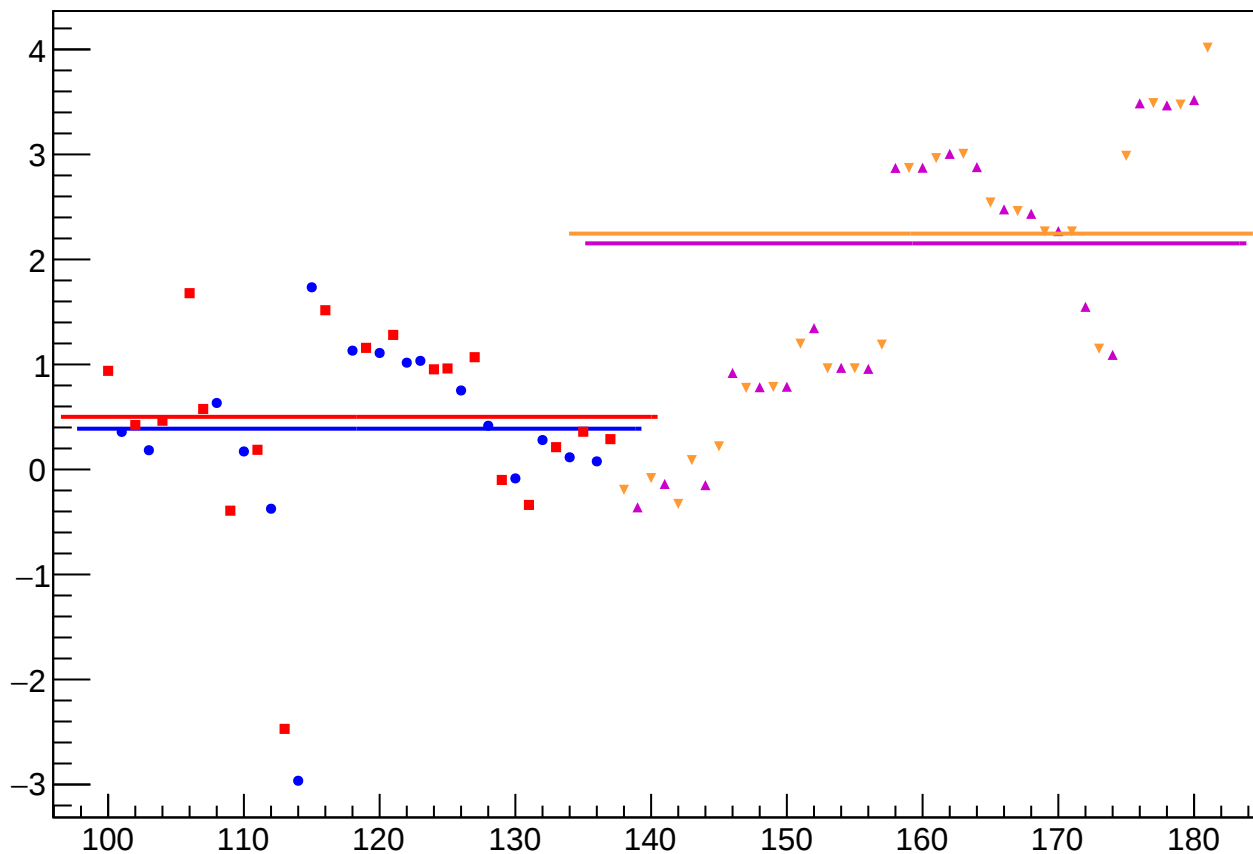
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2524057.1/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1741418.6/37

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1965215.8/41

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3708644.8/79

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.388+/-0.000

χ^2/NDF : 245257258.4/16

Left: 2.200+/-0.000 χ^2/NDF : 103024183641.7/43

Right: 0.440+/-0.000 χ^2/NDF : 1238568445.6/35

Left Out: 2.246+/-0.000

χ^2/NDF : 53977677178.2/22

In: 2.091+/-0.000 χ^2/NDF : 54339086971.4/37

Right Out: 0.501+/-0.000

χ^2/NDF : 983034937.0/18

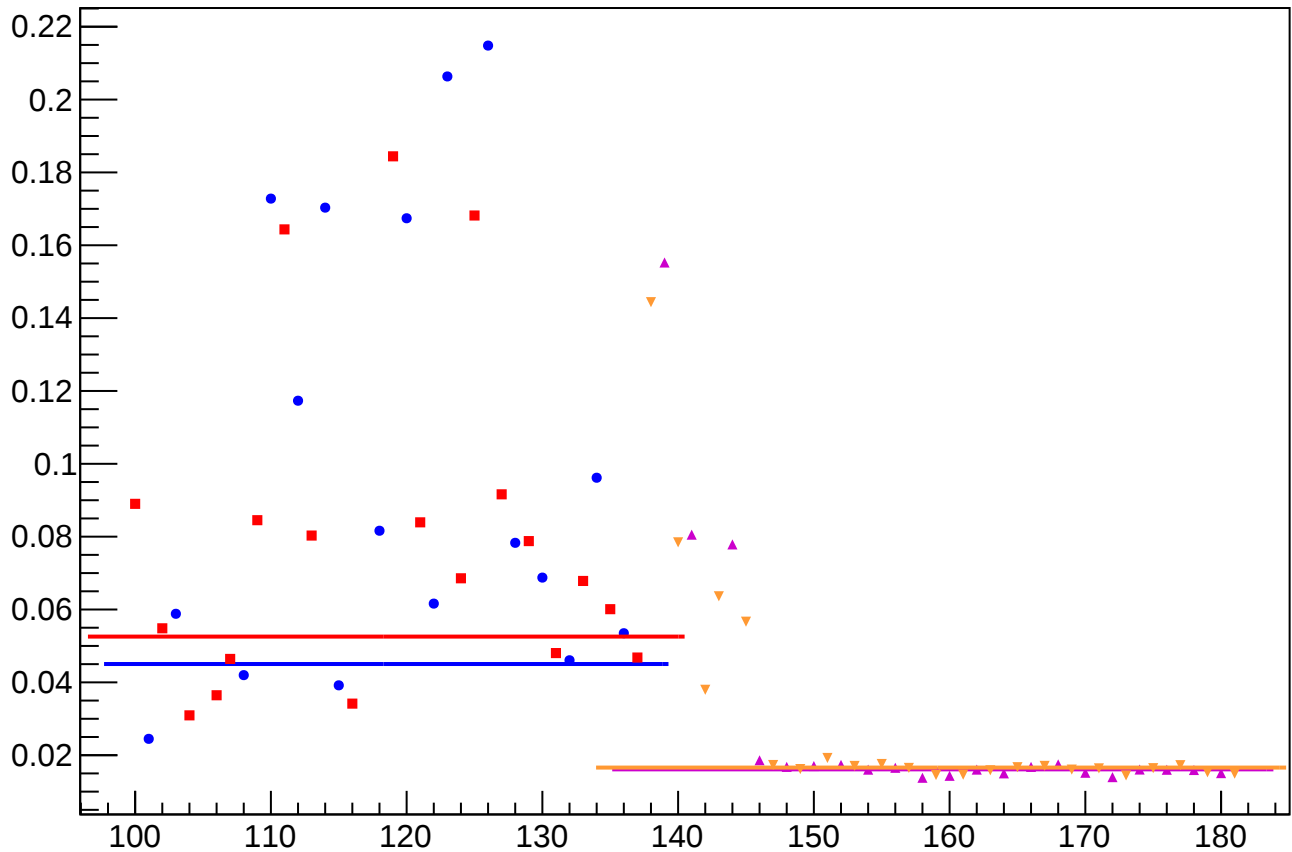
Out: 2.193+/-0.000 χ^2/NDF : 59360509939.3/41

Left In: 2.153+/-0.000

χ^2/NDF : 48840754703.1/20

All: 2.142+/-0.000 χ^2/NDF : 113956781553.9

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2830669.1/16

Left Out: 0.017+/-0.000 χ^2/NDF :2809535.6/22

Right Out: 0.053+/-0.000 χ^2/NDF : 2177690.7/18

Left In: 0.016+/-0.000 χ^2/NDF :2388822.1/20

Left: 0.016+/-0.000 χ^2/NDF : 5209946.9/43

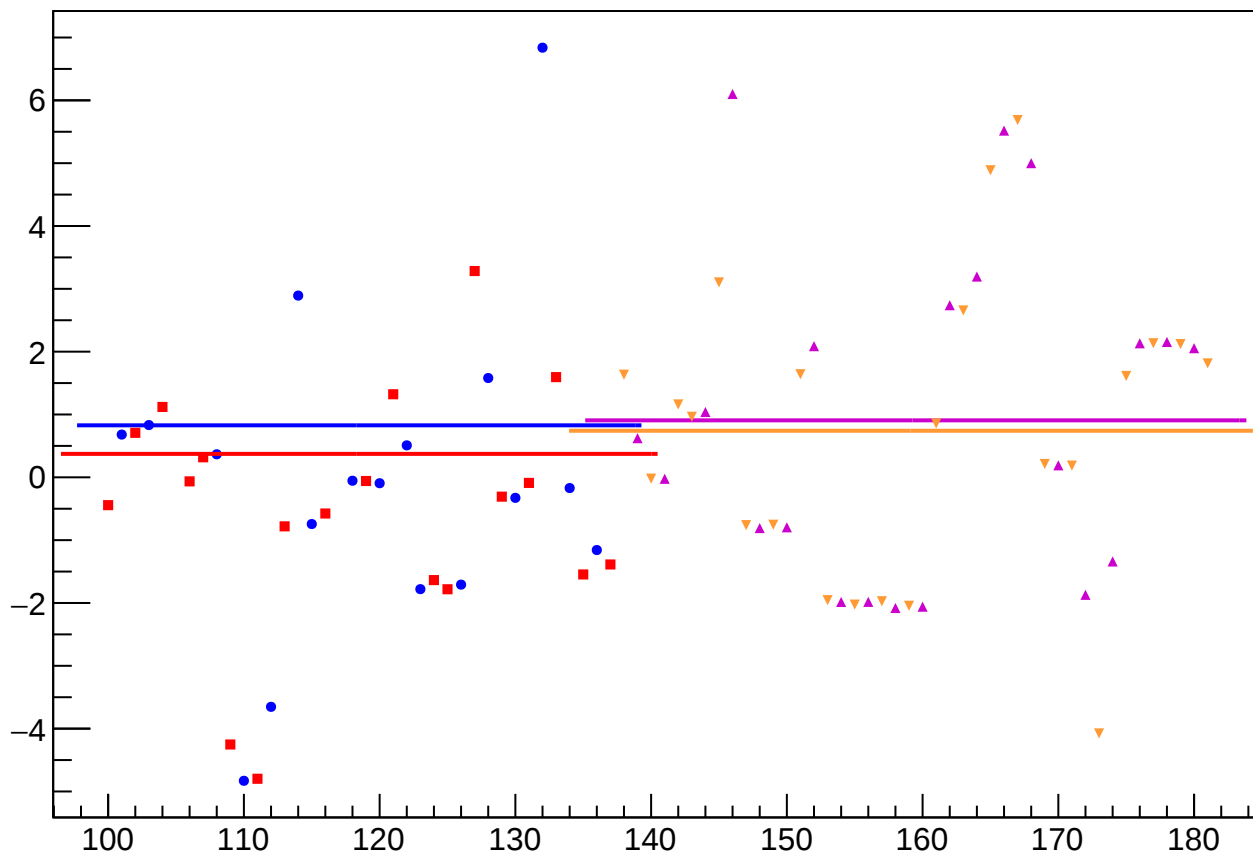
Right: 0.049+/-0.000 χ^2/NDF : 5099571.7/35

In: 0.017+/-0.000 χ^2/NDF :8040677.3/37

Out: 0.018+/-0.000 χ^2/NDF :8725381.8/41

All: 0.017+/-0.000 χ^2/NDF : 16781790.0/79

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.828+/-0.000

χ^2/NDF : 10934615588.5/16

Left: 0.824+/-0.000

χ^2/NDF : 1066724437236.9/43

Left Out: 0.741+/-0.000

χ^2/NDF : 502474730096.9/22

Right: 0.614+/-0.000

χ^2/NDF : 16284898380.7/35

Right Out: 0.373+/-0.000

χ^2/NDF : 4968052358.8/18

In: 0.903+/-0.000

χ^2/NDF : 574128895660.1/37

Left In: 0.907+/-0.000

χ^2/NDF : 563170789828.8/20

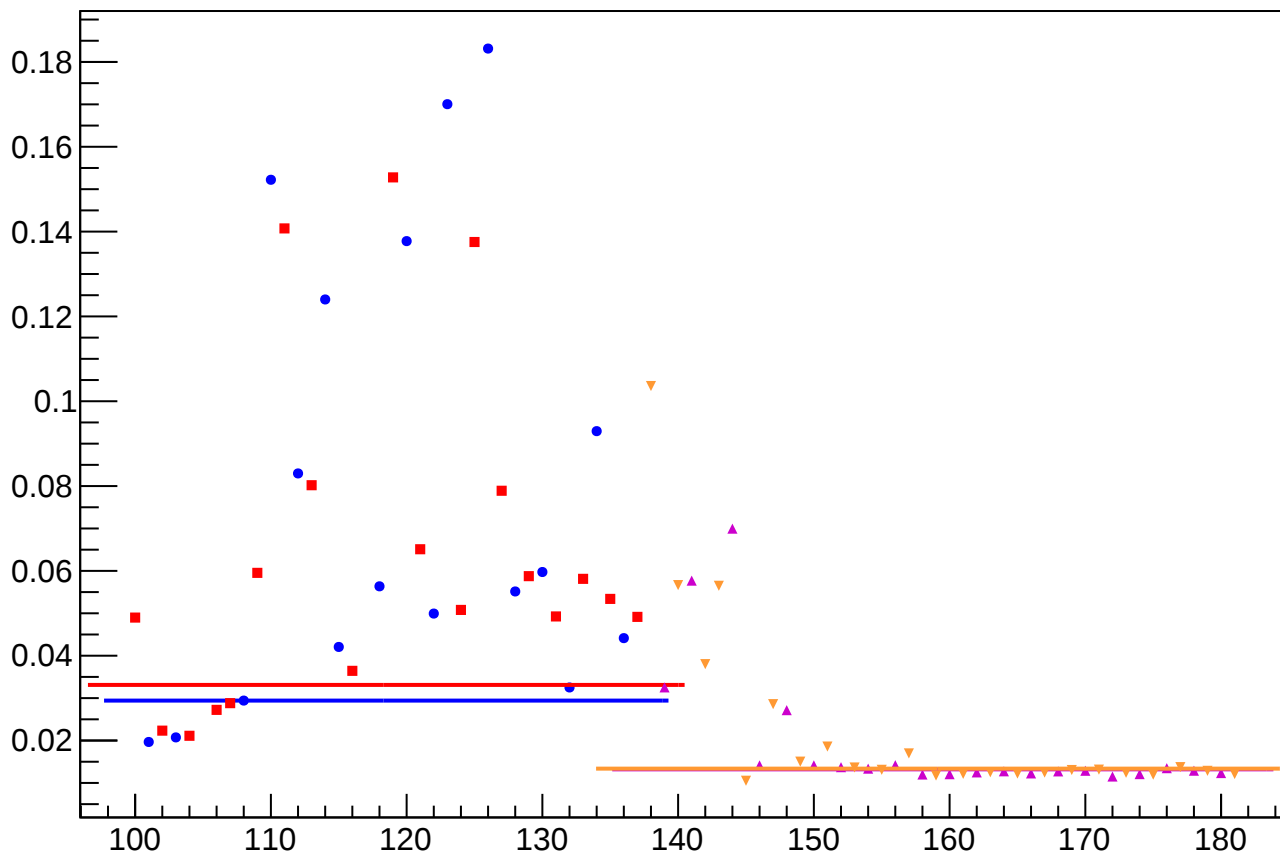
Out: 0.726+/-0.000

χ^2/NDF : 507896865384.7/41

All: 0.814+/-0.000

χ^2/NDF : 1083321932607.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 3034312.5/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:2914495.4/22

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 3078516.1/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:1938355.1/20

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 4855171.7/43

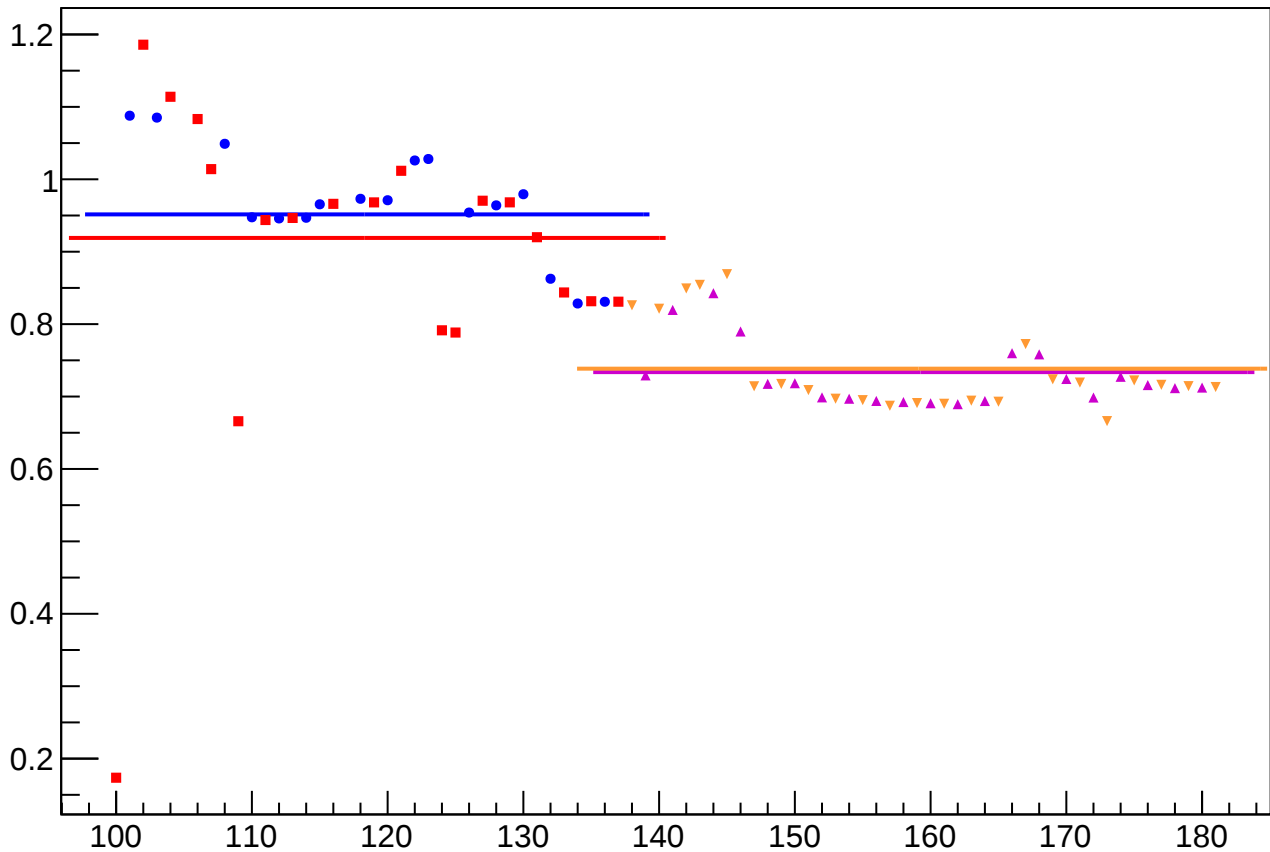
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6163407.5/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:6942244.2/37

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:8603111.9/41

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 15549749.3/79

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.952 $\pm$ 0.000 χ^2 /NDF: 173959453.0/16

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 296621620.1/22

Right Out: 0.919 $\pm$ 0.000 χ^2 /NDF: 374715264.1/18

Left In: 0.734 $\pm$ 0.000 χ^2 /NDF: 168563422.8/20

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 466065465.6/43

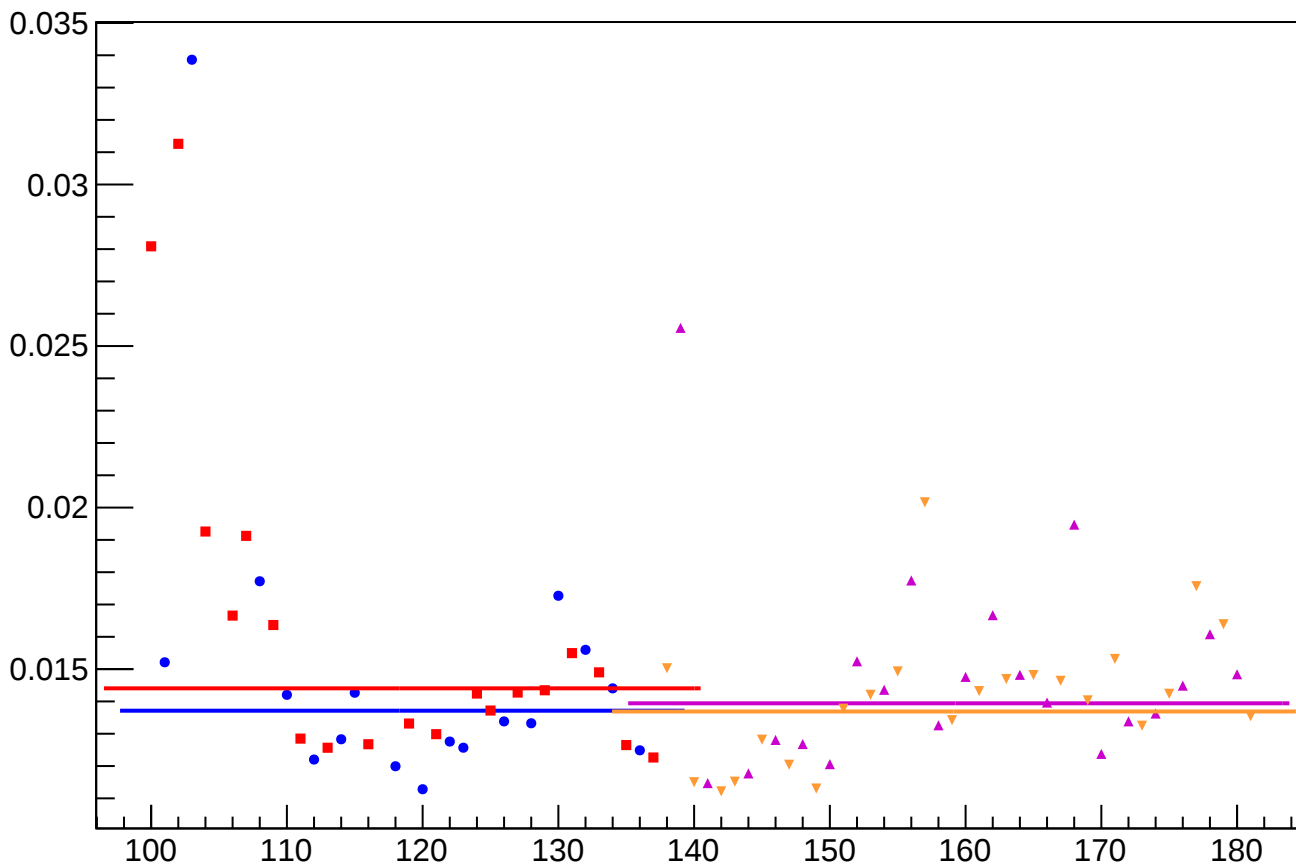
Right: 0.936 $\pm$ 0.000 χ^2 /NDF: 564529204.5/35

In: 0.797 $\pm$ 0.000 χ^2 /NDF: 1376877582.5/37

Out: 0.786 $\pm$ 0.000 χ^2 /NDF: 1372055486.7/41

All: 0.792 $\pm$ 0.000 χ^2 /NDF: 2755723761.5/79

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 546221.8/16

Left Out: 0.014+/-0.000 χ^2/NDF : 511351.2/22

Right Out: 0.014+/-0.000 χ^2/NDF : 502019.0/18

Left In: 0.014+/-0.000 χ^2/NDF : 762646.6/20

Left: 0.014+/-0.000 χ^2/NDF : 1278984.7/43

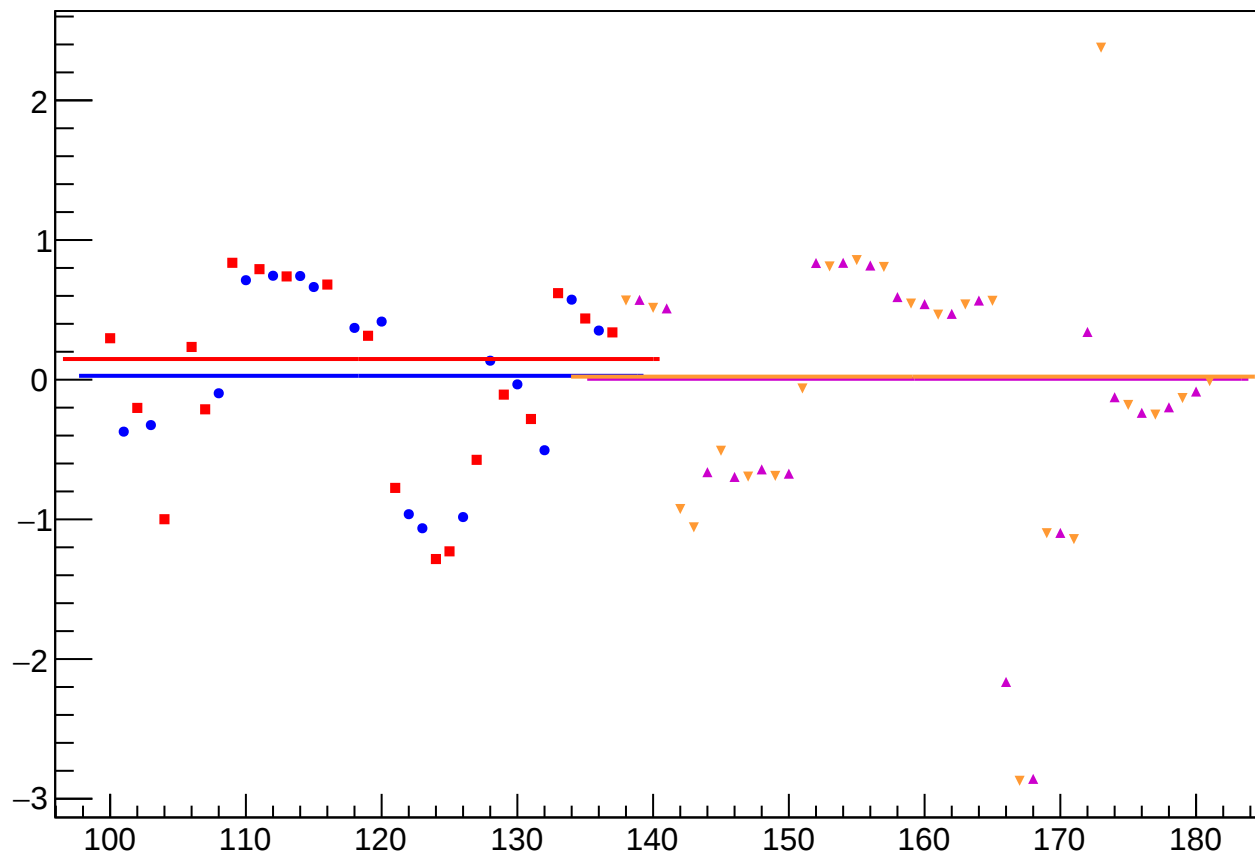
Right: 0.014+/-0.000 χ^2/NDF : 1062609.3/35

In: 0.014+/-0.000 χ^2/NDF : 1311149.8/37

Out: 0.014+/-0.000 χ^2/NDF : 1035445.7/41

All: 0.014+/-0.000 χ^2/NDF : 2346596.6/79

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 6330660019.5/16

Left Out: 0.022 $\pm$ 0.000 χ^2 /NDF: 95595145572.1/22

Right Out: 0.148 $\pm$ 0.000 χ^2 /NDF: 12786884425.3/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF: 78804386177.6/20

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 174411418256.9/43

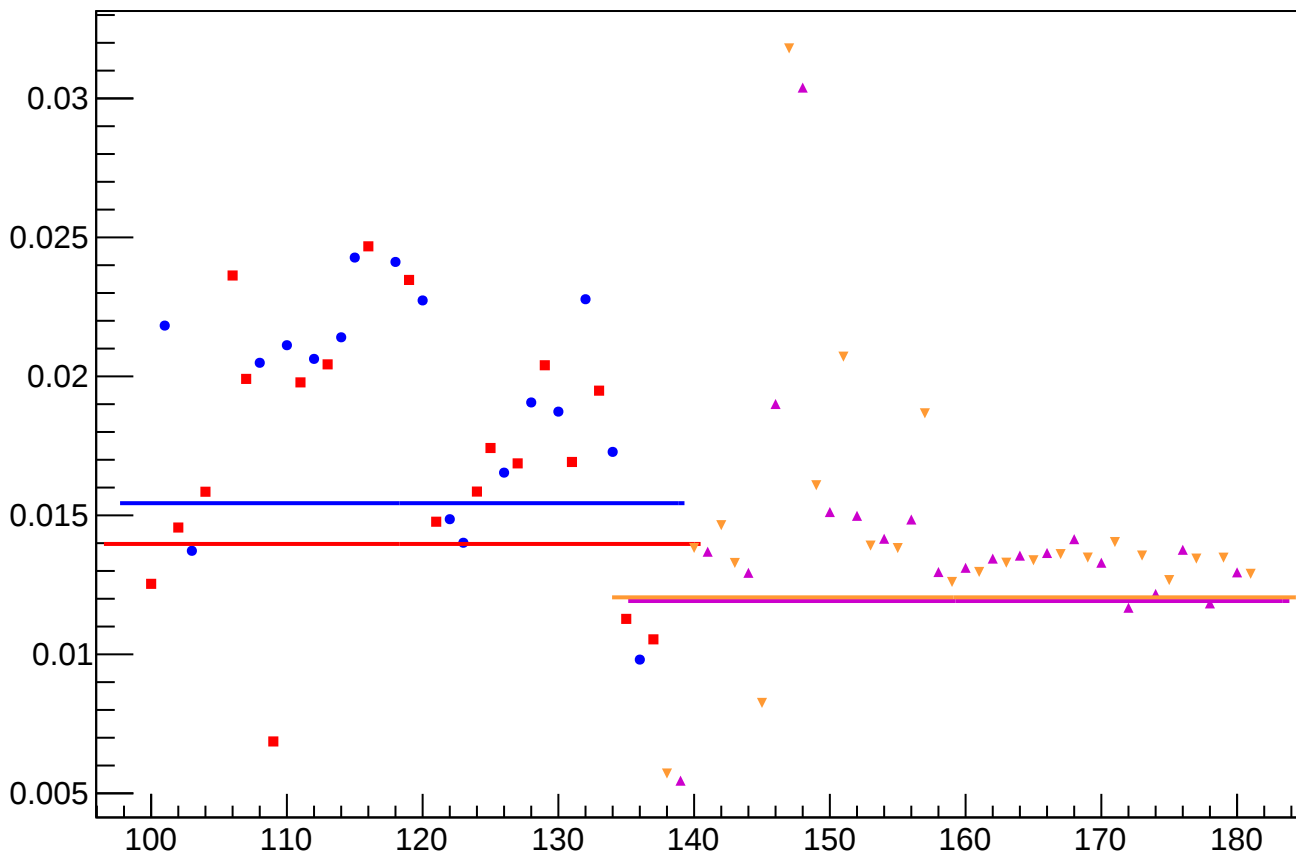
Right: 0.094 $\pm$ 0.000 χ^2 /NDF: 19304525914.6/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 85143611032.3/37

Out: 0.049 $\pm$ 0.000 χ^2 /NDF: 108738230450.9/41

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 193976241448.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1160014.9/16

Left Out: 0.012+/-0.000 χ^2/NDF : 3091746.8/22

Right Out: 0.014+/-0.000 χ^2/NDF : 1556431.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 2980677.8/20

Left: 0.012+/-0.000 χ^2/NDF : 6074177.3/43

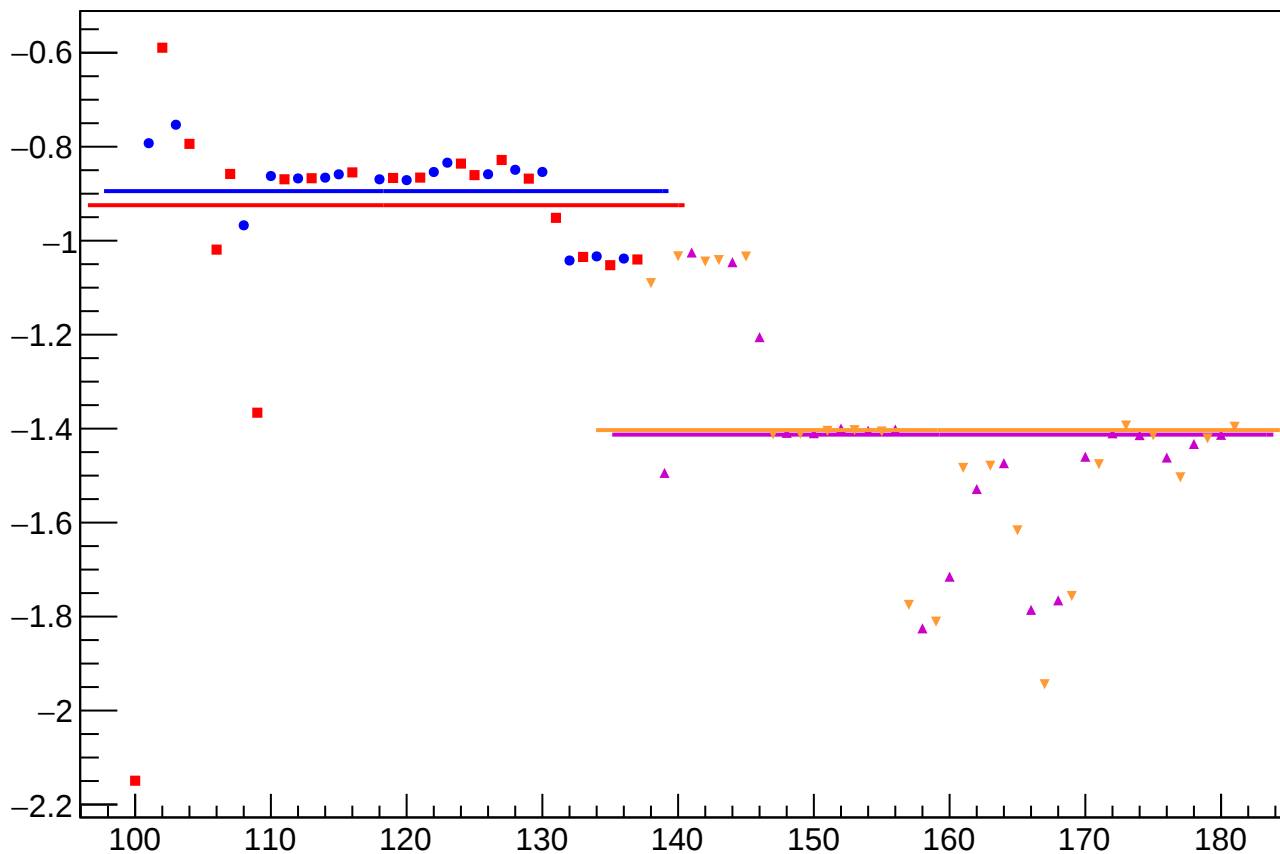
Right: 0.015+/-0.000 χ^2/NDF : 2772133.5/35

In: 0.013+/-0.000 χ^2/NDF : 4613322.7/37

Out: 0.012+/-0.000 χ^2/NDF : 4813702.8/41

All: 0.013+/-0.000 χ^2/NDF : 9429219.7/79

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.895 ± 0.000 $\chi^2/\text{NDF}: 37736129.8/16$

Left Out: -1.403 ± 0.000 $\chi^2/\text{NDF}: 721740445.8/22$

Right Out: -0.925 ± 0.000 $\chi^2/\text{NDF}: 128456555.8/18$

Left In: -1.413 ± 0.000 $\chi^2/\text{NDF}: 512266052.2/20$

Left: -1.408 ± 0.000 $\chi^2/\text{NDF}: 1234550112.9/43$

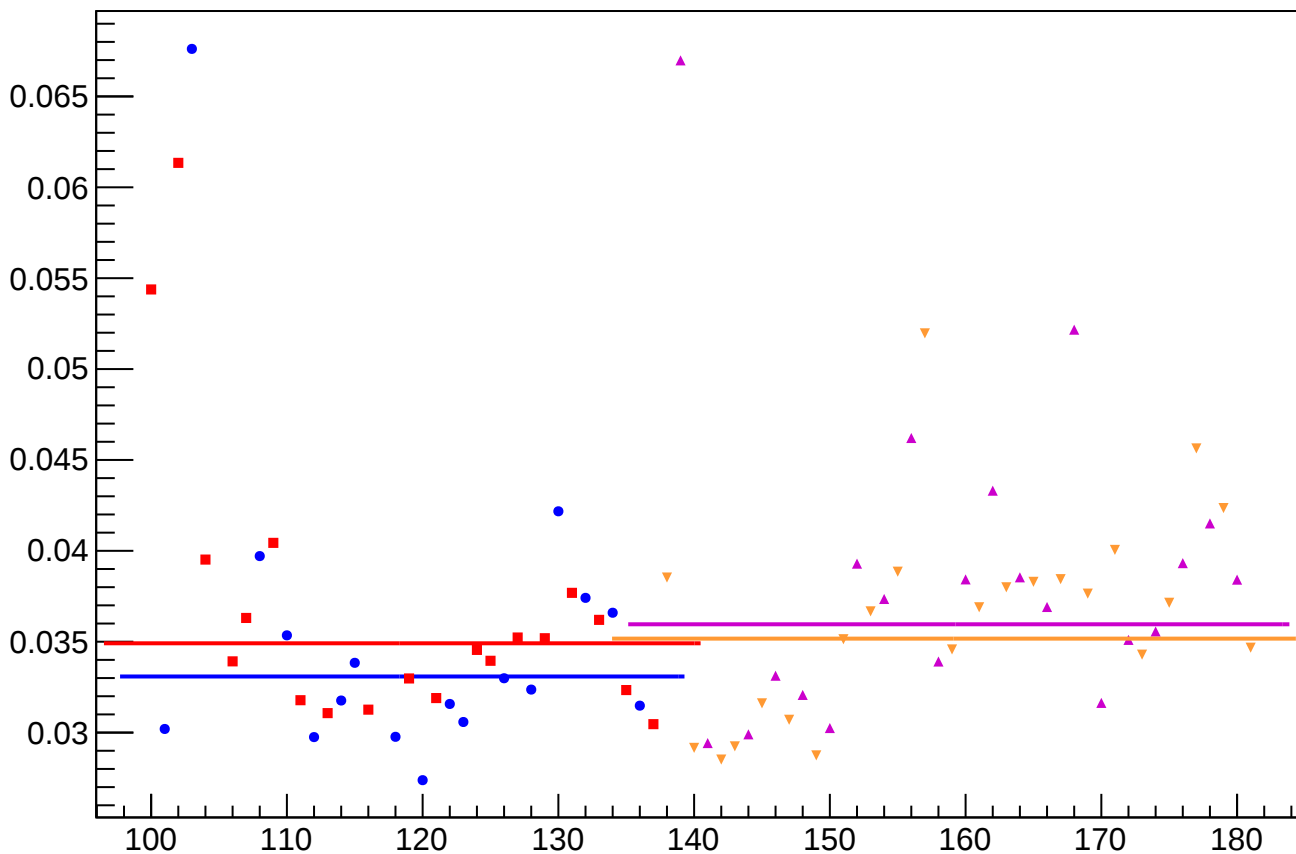
Right: -0.909 ± 0.000 $\chi^2/\text{NDF}: 168526057.0/35$

In: -1.244 ± 0.000 $\chi^2/\text{NDF}: 1518296629.0/37$

Out: -1.263 ± 0.000 $\chi^2/\text{NDF}: 1666105050.5/41$

All: -1.254 ± 0.000 $\chi^2/\text{NDF}: 3187515612.7/77$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 408714.5/16

Left Out: 0.035+/-0.000 χ^2/NDF : 576875.2/22

Right Out: 0.035+/-0.000 χ^2/NDF : 274757.5/18

Left In: 0.036+/-0.000 χ^2/NDF : 855255.3/20

Left: 0.036+/-0.000 χ^2/NDF : 1439355.2/43

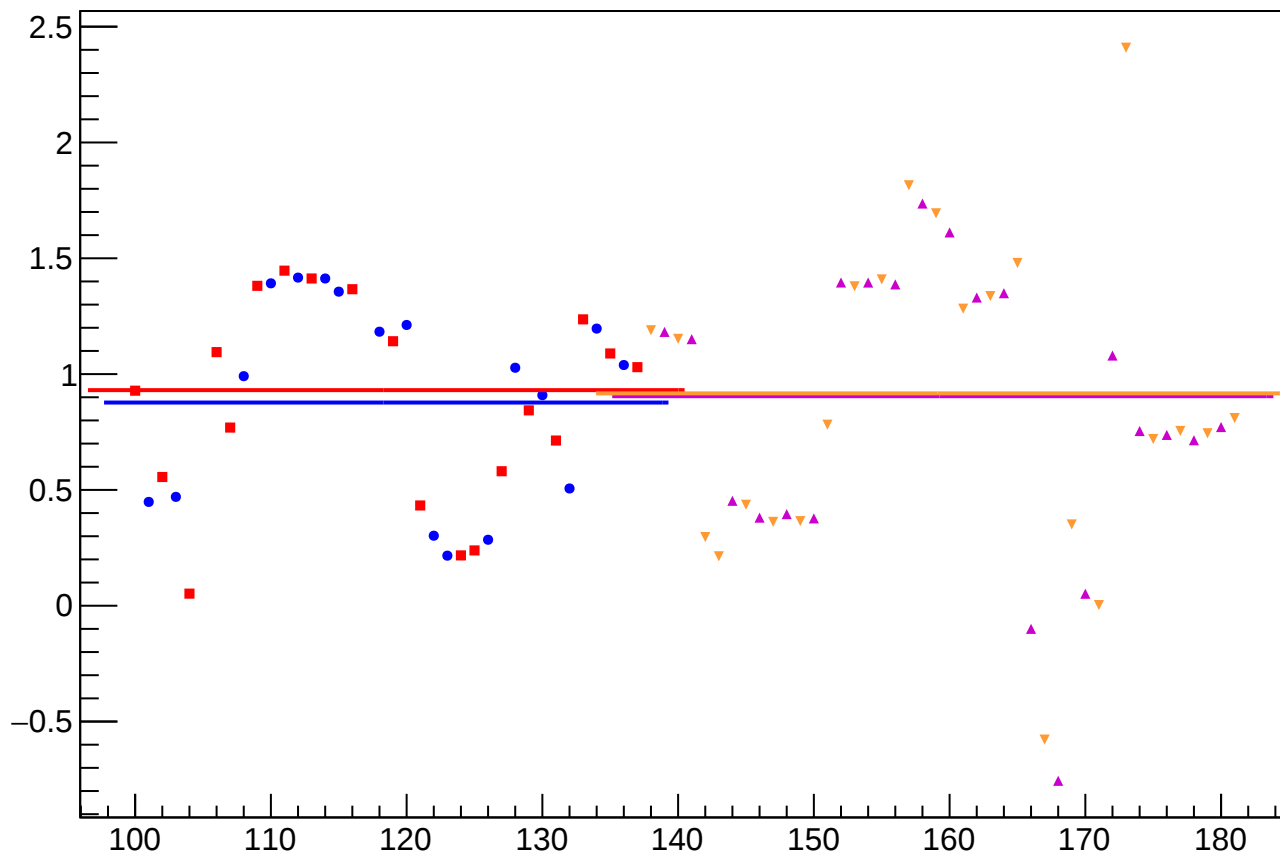
Right: 0.034+/-0.000 χ^2/NDF : 700763.4/35

In: 0.035+/-0.000 χ^2/NDF : 1323445.5/37

Out: 0.035+/-0.000 χ^2/NDF : 852102.7/41

All: 0.035+/-0.000 χ^2/NDF : 2175633.3/79

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.877 $\pm$ 0.000

χ^2 /NDF: 6492530367.5/16

Left: 0.911 $\pm$ 0.000 χ^2 /NDF: 149766193134.6/43

Right: 0.905 $\pm$ 0.000 χ^2 /NDF: 16534143607.8/35

Left Out: 0.917 $\pm$ 0.000

χ^2 /NDF: 83369161803.1/22

In: 0.899 $\pm$ 0.000 χ^2 /NDF: 72905739807.5/37

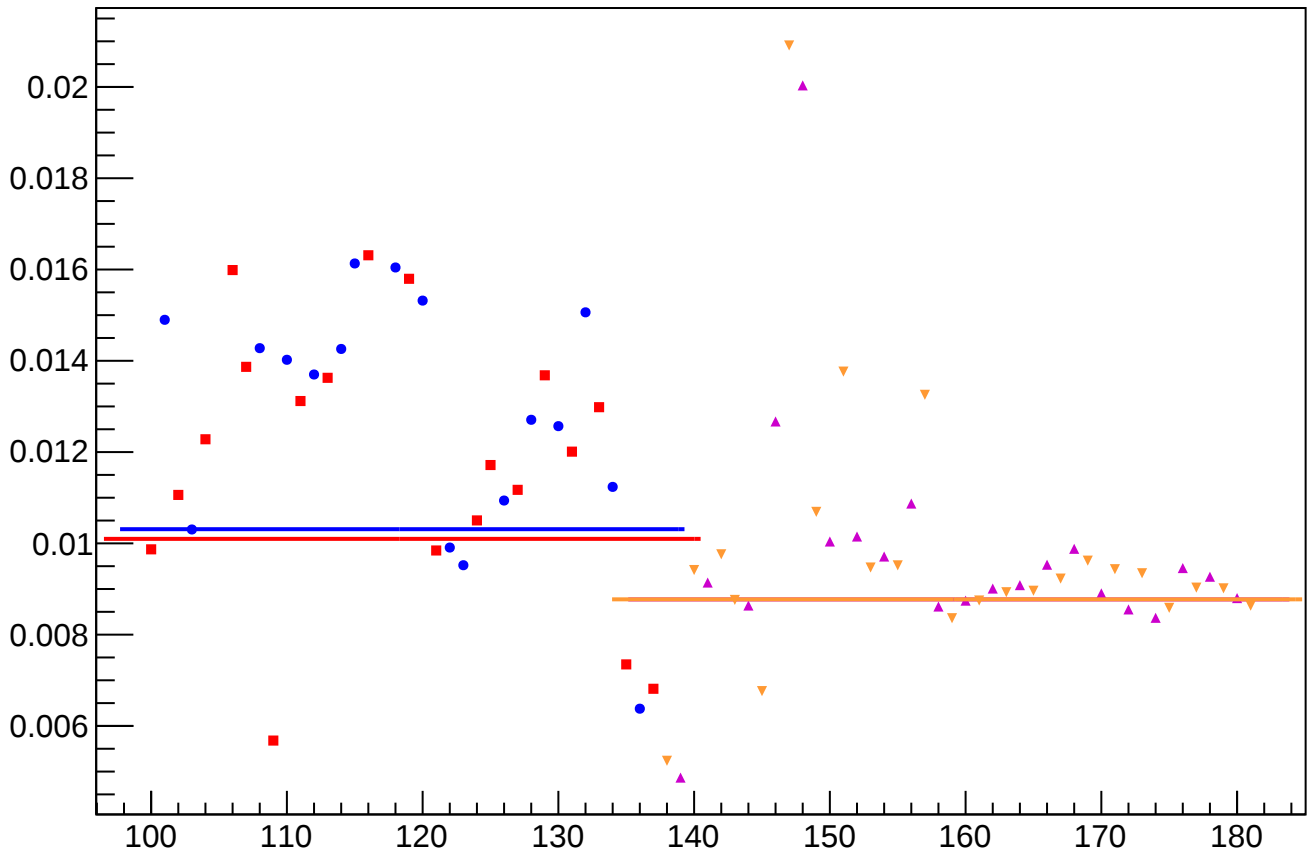
Right Out: 0.931 $\pm$ 0.000 χ^2 /NDF: 9963132374.2/18

Out: 0.920 $\pm$ 0.000 χ^2 /NDF: 93341077952.3/41

Left In: 0.905 $\pm$ 0.000 χ^2 /NDF: 66382318388.2/20

All: 0.910 $\pm$ 0.000 χ^2 /NDF: 166303214172.2

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1229309.4/16

Left Out: 0.009+/-0.000 χ^2/NDF :1696989.2/22

Right Out: 0.010+/-0.000 χ^2/NDF : 1175272.9/18

Left In: 0.009+/-0.000 χ^2/NDF :1607893.1/20

Left: 0.009+/-0.000 χ^2/NDF : 3304883.2/43

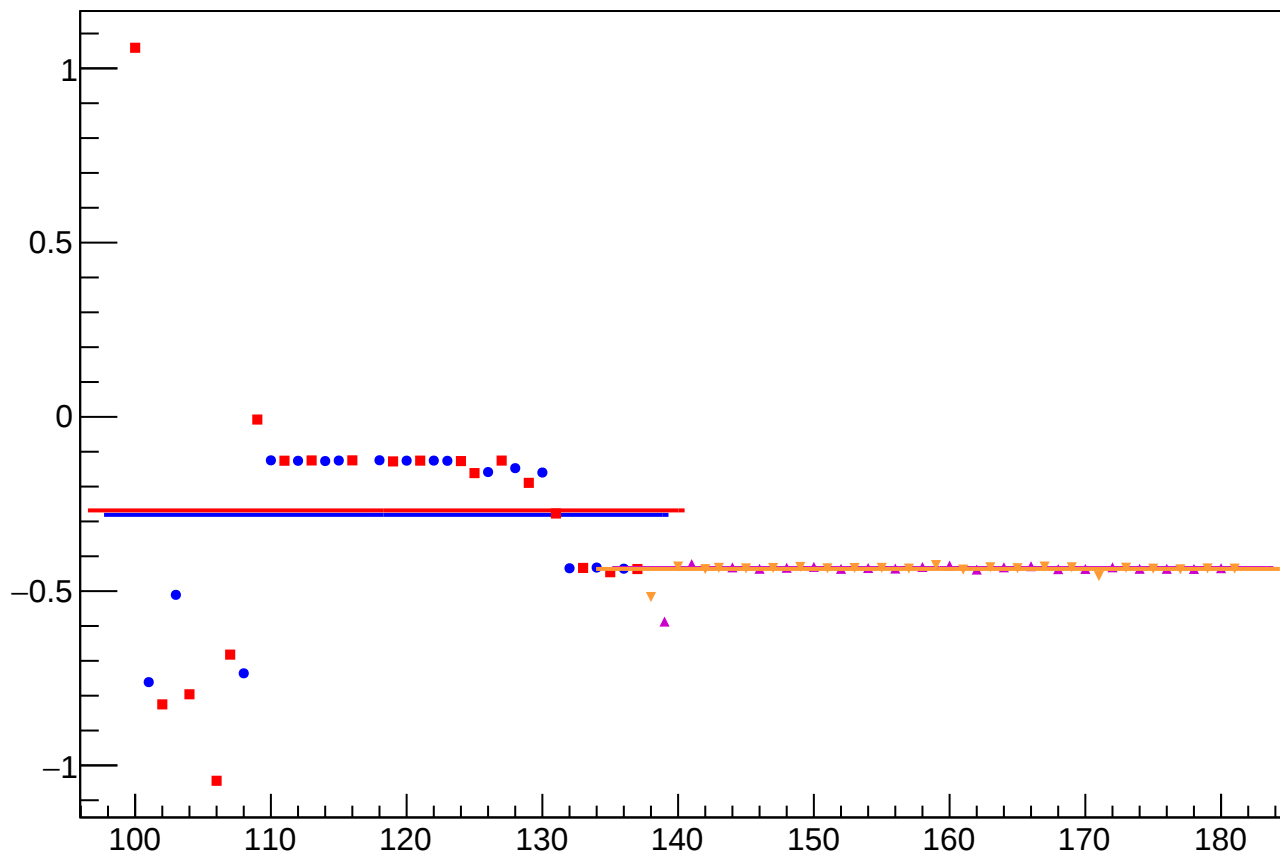
Right: 0.010+/-0.000 χ^2/NDF : 2407045.8/35

In: 0.009+/-0.000 χ^2/NDF :3032593.4/37

Out: 0.009+/-0.000 χ^2/NDF :3029284.3/41

All: 0.009+/-0.000 χ^2/NDF : 6062319.8/79

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.281 ± 0.000 $\chi^2/\text{NDF}: 905834039.3/16$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28773698.0/22$

Right Out: -0.268 ± 0.000 $\chi^2/\text{NDF}: 967576606.4/18$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23788321.5/20$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53013625.9/43$

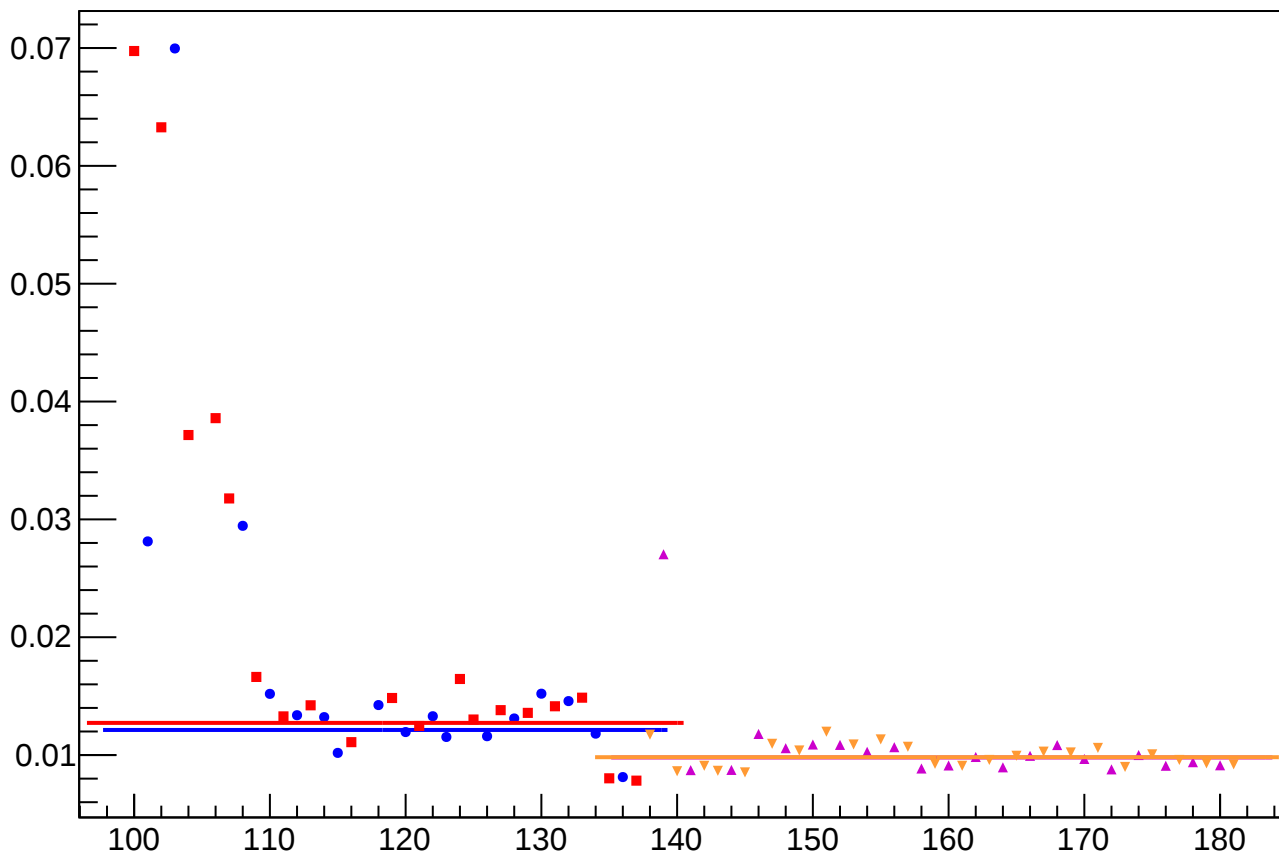
Right: -0.275 ± 0.000 $\chi^2/\text{NDF}: 1875885505.2/35$

In: -0.406 ± 0.000 $\chi^2/\text{NDF}: 1538652097.0/37$

Out: -0.409 ± 0.000 $\chi^2/\text{NDF}: 1698898531.7/41$

All: -0.407 ± 0.000 $\chi^2/\text{NDF}: 3238401649.7/77$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2 /NDF: 1724778.2/16

Left Out: 0.010+/-0.000 χ^2 /NDF:260316.2/22

Right Out: 0.013+/-0.000 χ^2 /NDF: 1970038.2/18

Left In: 0.010+/-0.000 χ^2 /NDF:745797.2/20

Left: 0.010+/-0.000 χ^2 /NDF: 1006201.7/43

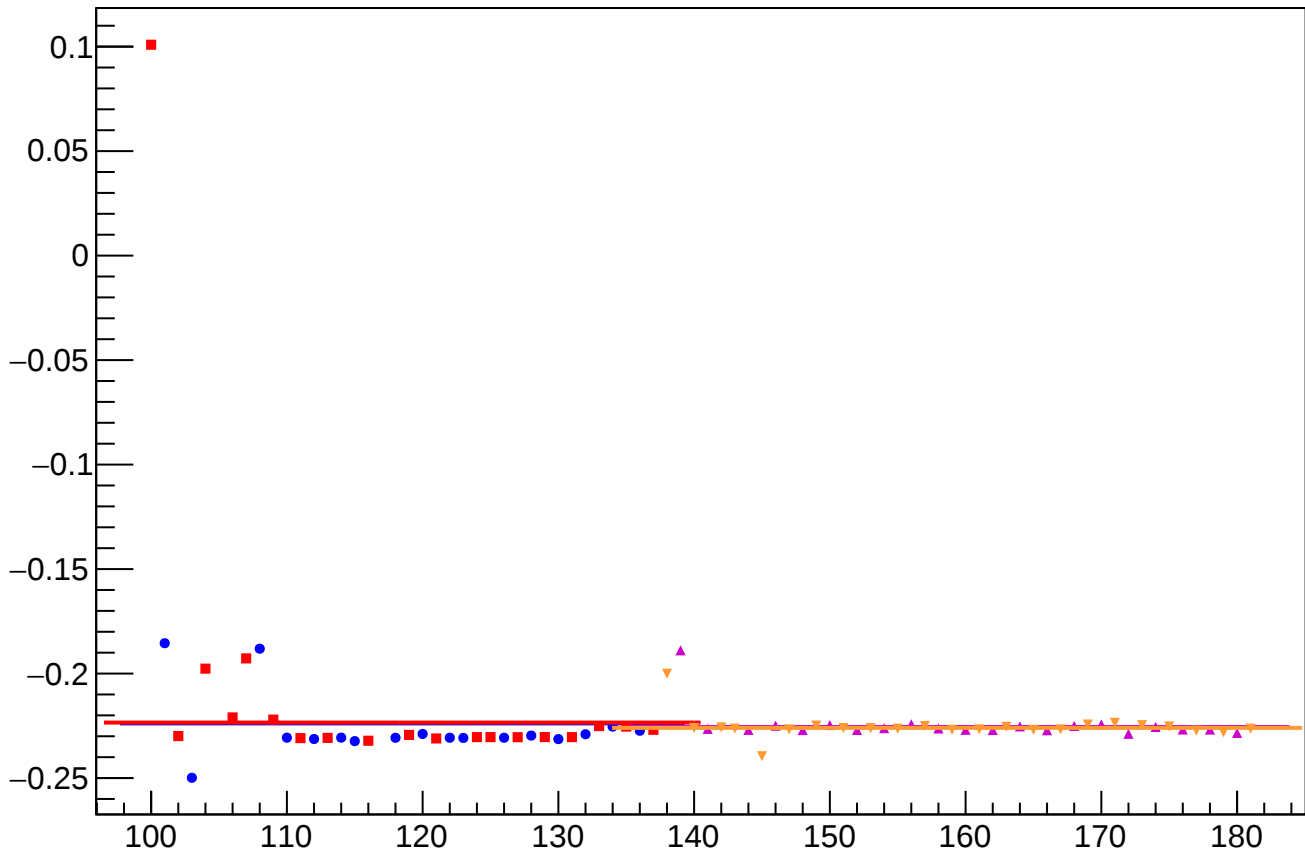
Right: 0.012+/-0.000 χ^2 /NDF: 3705932.5/35

In: 0.010+/-0.000 χ^2 /NDF:2755391.6/37

Out: 0.010+/-0.000 χ^2 /NDF:2652924.1/41

All: 0.010+/-0.000 χ^2 /NDF: 5409222.7/79

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 74308262.0/16

Left Out: -0.226+/-0.000 χ^2/NDF : 21098661.6/22

Right Out: -0.223+/-0.000 χ^2/NDF : 167796311.6/18

Left In: -0.226+/-0.000 χ^2/NDF : 15099054.5/20

Left: -0.226+/-0.000 χ^2/NDF : 36243670.5/43

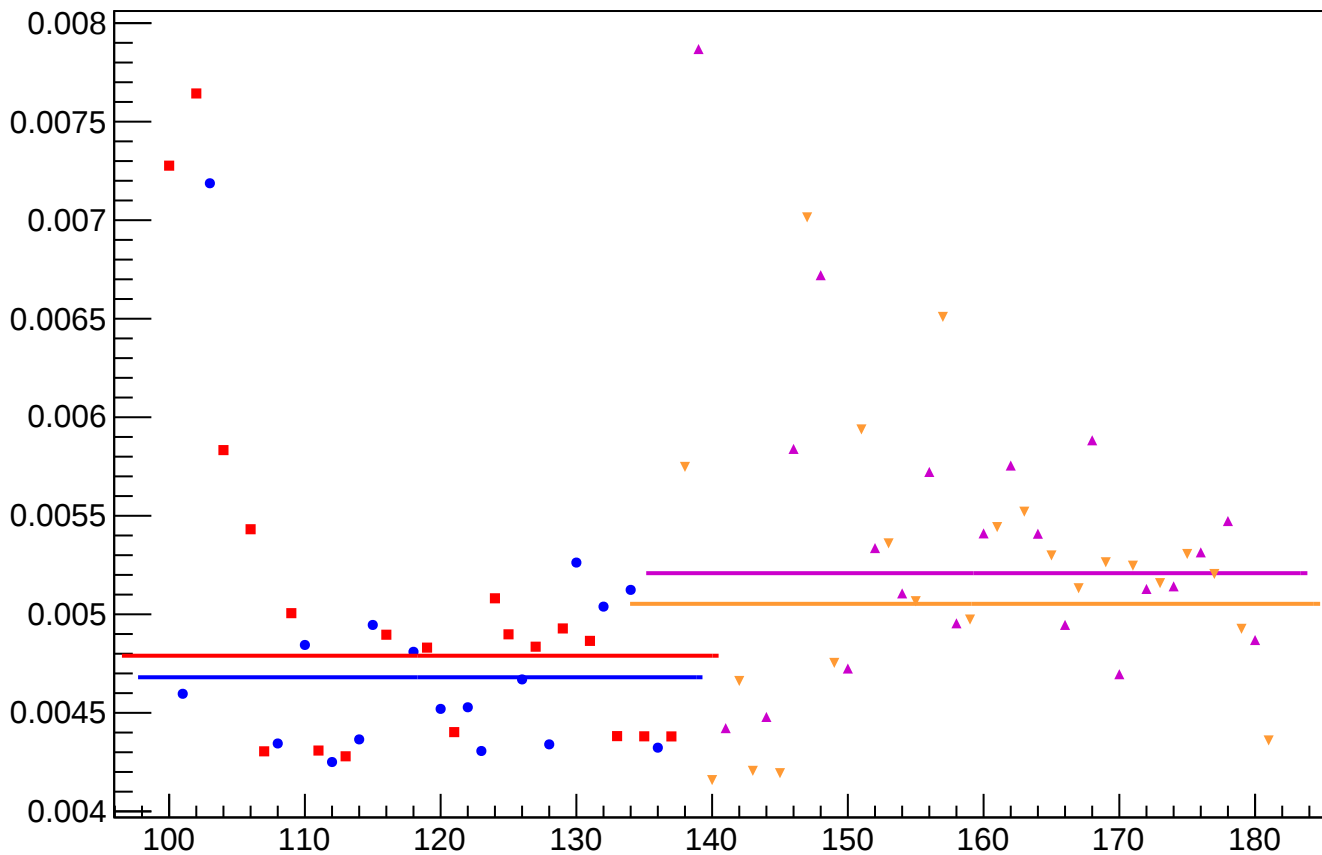
Right: -0.224+/-0.000 χ^2/NDF : 242124166.5/35

In: -0.225+/-0.000 χ^2/NDF : 89985201.1/37

Out: -0.225+/-0.000 χ^2/NDF : 190140032.3/41

All: -0.225+/-0.000 χ^2/NDF : 280142724.6/79

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 180630.9/16

Left Out: 0.005+/-0.000 χ^2/NDF : 498705.5/22

Right Out: 0.005+/-0.000 χ^2/NDF : 248518.8/18

Left In: 0.005+/-0.000 χ^2/NDF : 438895.7/20

Left: 0.005+/-0.000 χ^2/NDF : 952074.0/43

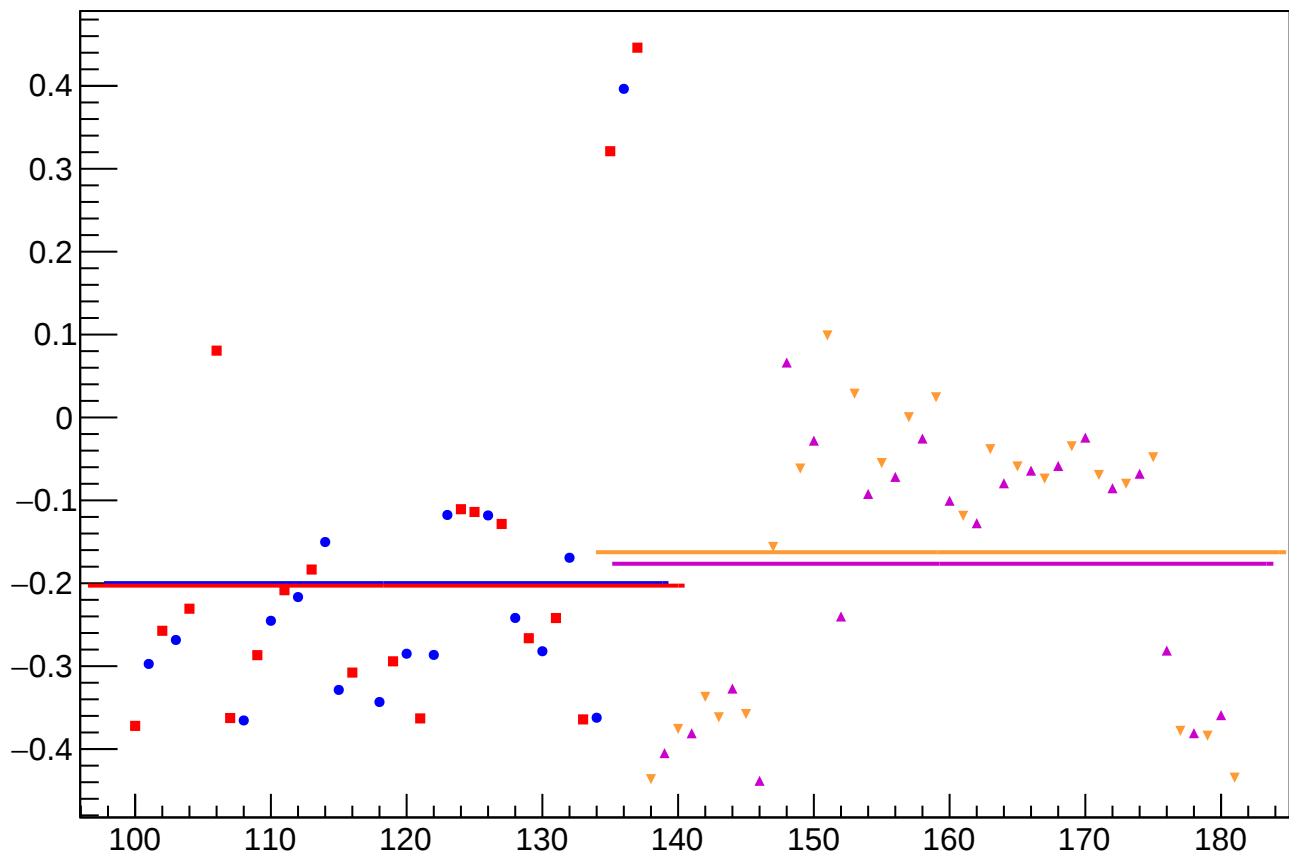
Right: 0.005+/-0.000 χ^2/NDF : 432453.6/35

In: 0.005+/-0.000 χ^2/NDF : 722644.9/37

Out: 0.005+/-0.000 χ^2/NDF : 774050.7/41

All: 0.005+/-0.000 χ^2/NDF : 1500124.9/79

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.200+/-0.000 χ^2/NDF : 5966157035.1/16

Left Out: -0.163+/-0.000 χ^2/NDF : 16187516906.4/22

Right Out: -0.203+/-0.000 χ^2/NDF : 5025528680.0/18

Left In: -0.176+/-0.000 χ^2/NDF : 11509972975.1/20

Left: -0.169+/-0.000 χ^2/NDF : 27749220531.5/43

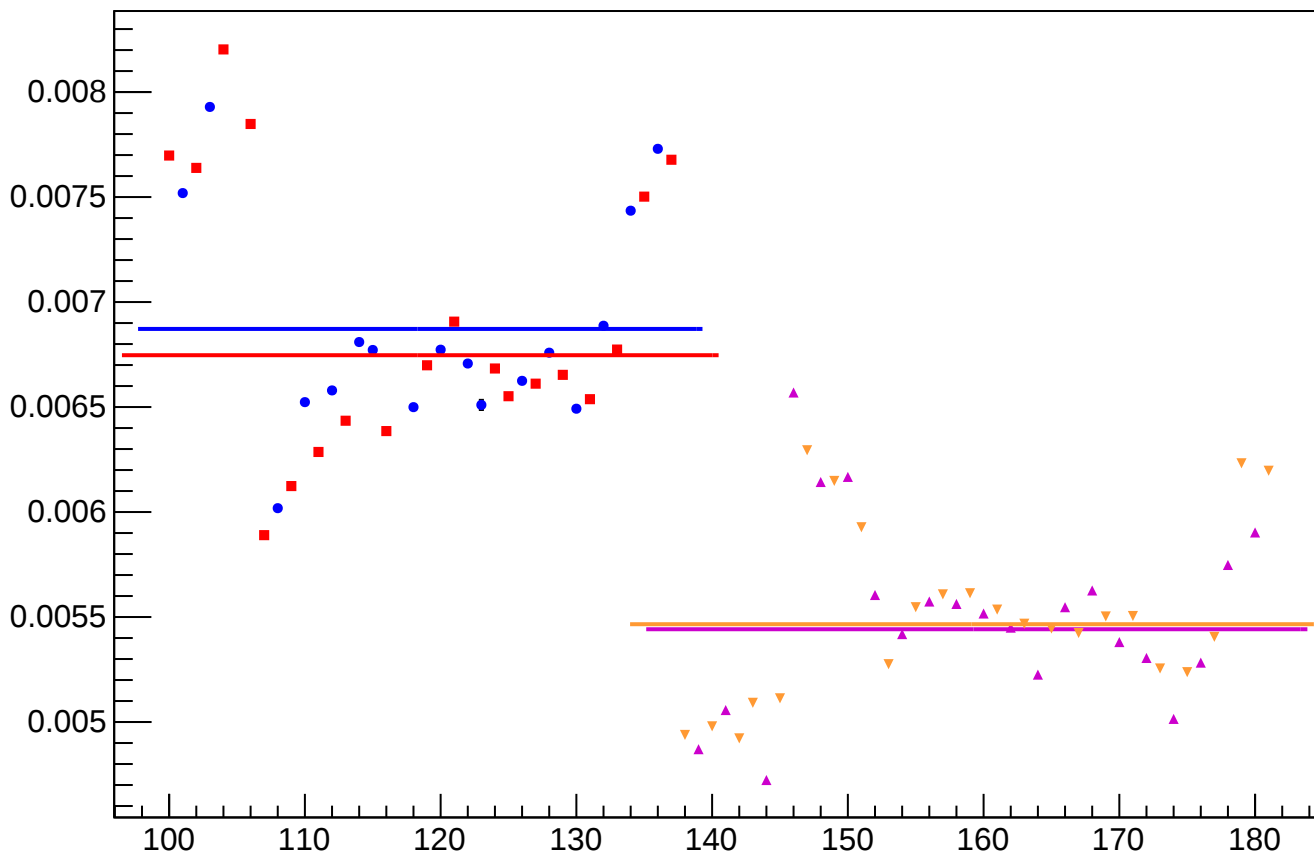
Right: -0.201+/-0.000 χ^2/NDF : 10992344993.2/35

In: -0.181+/-0.000 χ^2/NDF : 17535892818.4/37

Out: -0.171+/-0.000 χ^2/NDF : 21405111278.3/41

All: -0.176+/-0.000 χ^2/NDF : 38976228552.1/...

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 78685.4/16

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:158947.7/22

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 105420.2/18

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:176019.4/20

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 335275.3/43

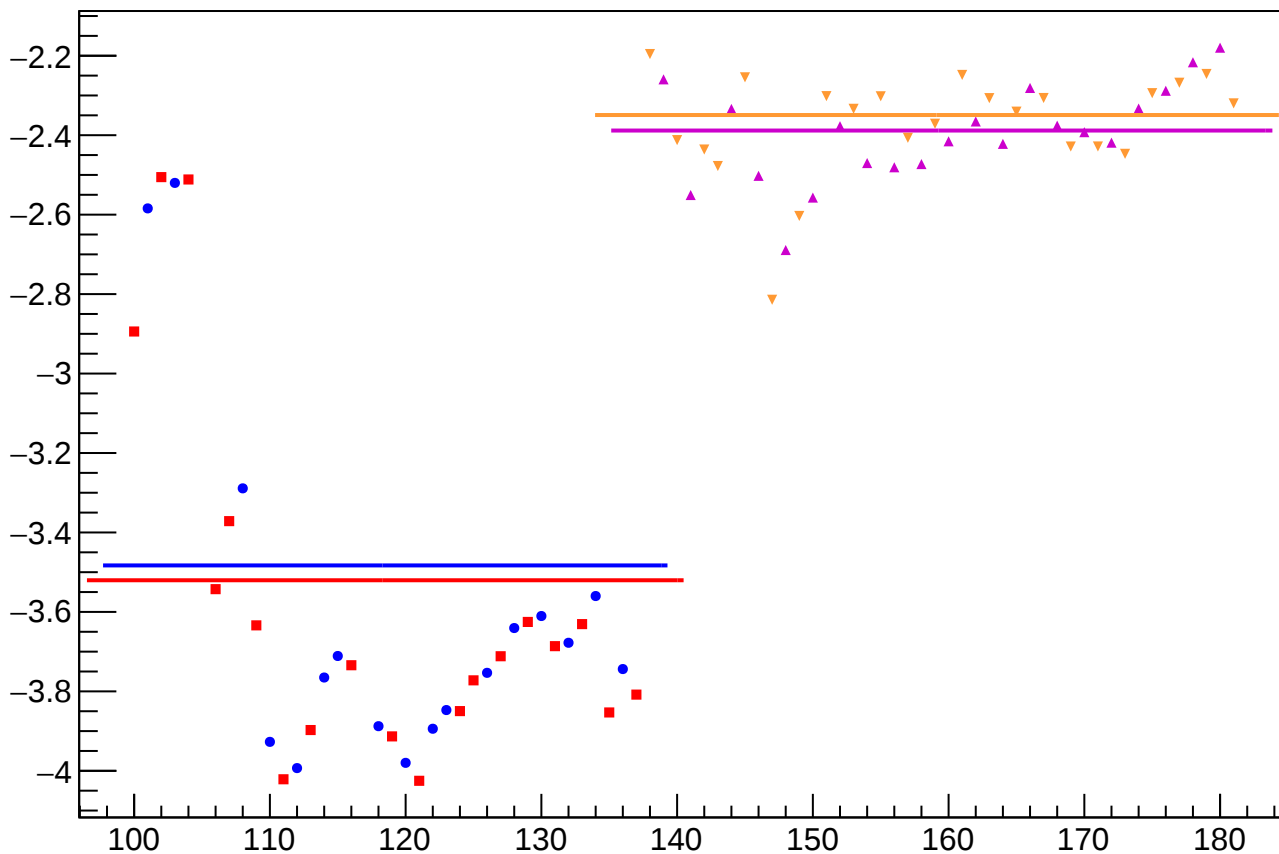
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 186365.3/35

In: 0.006 $\pm$ 0.000 χ^2 /NDF:702157.4/37

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:652722.0/41

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1354882.6/79

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.483+/-0.000 χ^2/NDF : 27157654838.2/16

Left Out: -2.349+/-0.000 χ^2/NDF : 2119571384.0/22

Right Out: -3.520+/-0.000 χ^2/NDF : 26453336521.2/18

Left In: -2.388+/-0.000 χ^2/NDF : 2171284376.3/20

Left: -2.368+/-0.000 χ^2/NDF : 4449350965.1/43

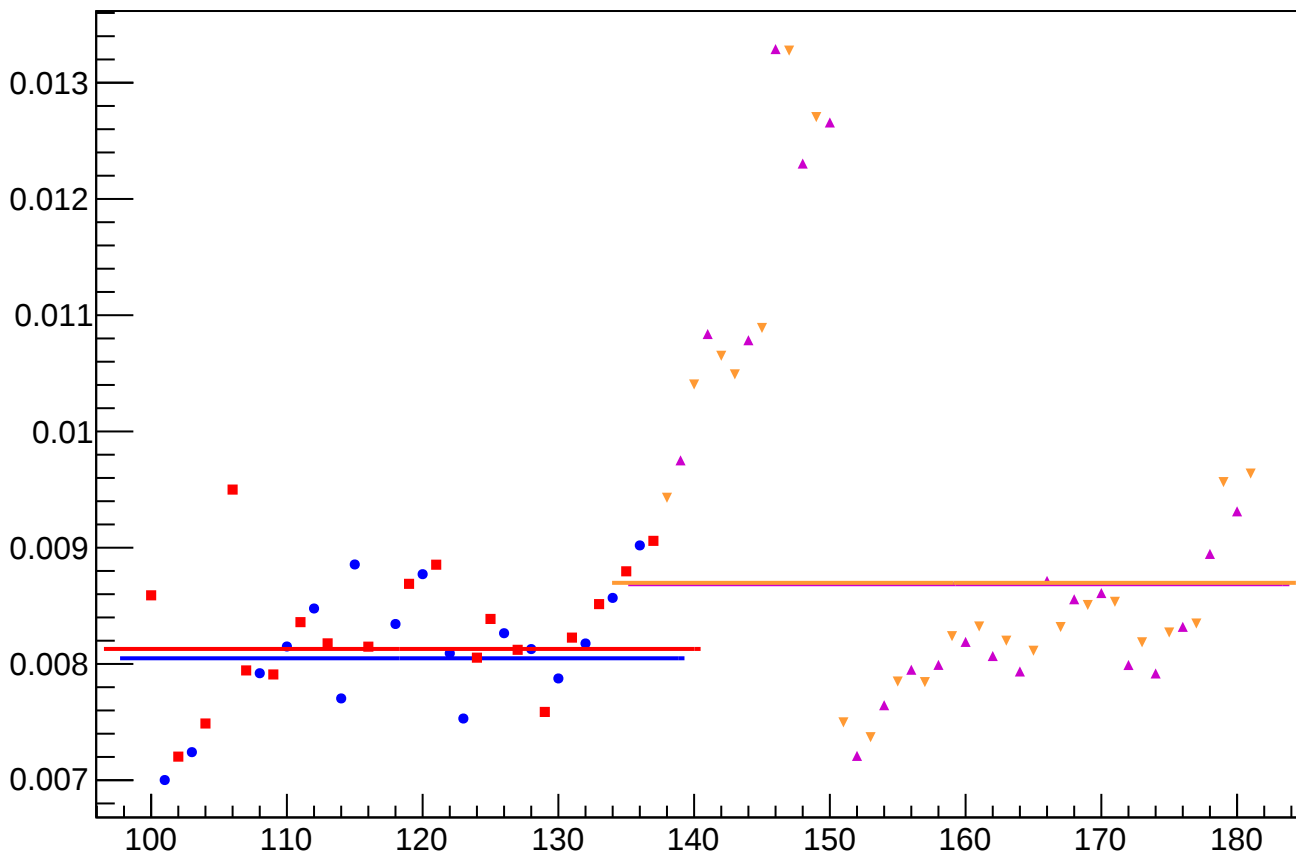
Right: -3.502+/-0.000 χ^2/NDF : 53681520881.9/35

In: -2.751+/-0.000 χ^2/NDF : 109465387129.8/37

Out: -2.727+/-0.000 χ^2/NDF : 123515915259.9/41

All: -2.739+/-0.000 χ^2/NDF : 233076064404.2

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 72176.4/16

Left Out: 0.009+/-0.000 χ^2/NDF : 635310.4/22

Right Out: 0.008+/-0.000 χ^2/NDF : 57777.8/18

Left In: 0.009+/-0.000 χ^2/NDF : 738439.8/20

Left: 0.009+/-0.000 χ^2/NDF : 1373780.2/43

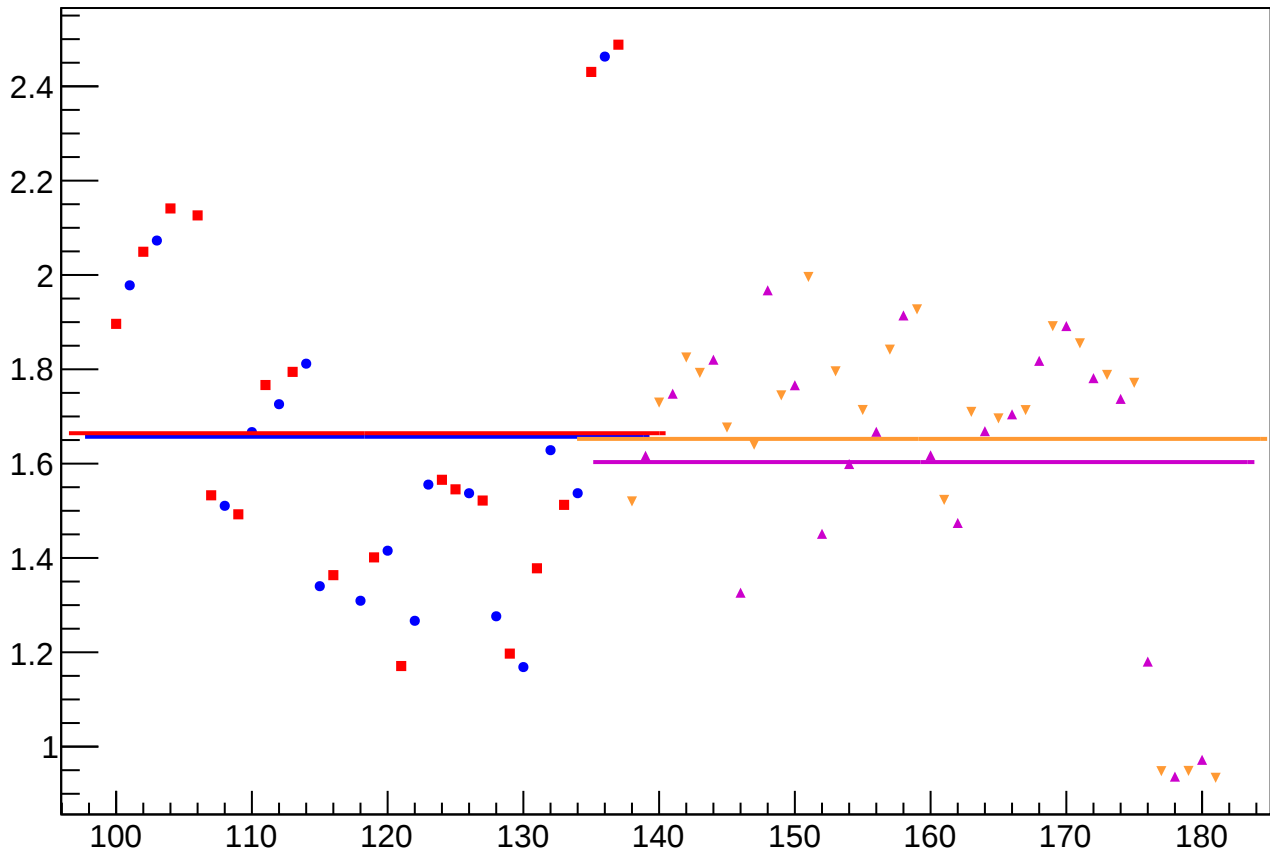
Right: 0.008+/-0.000 χ^2/NDF : 130608.9/35

In: 0.008+/-0.000 χ^2/NDF : 864904.0/37

Out: 0.009+/-0.000 χ^2/NDF : 737860.0/41

All: 0.008+/-0.000 χ^2/NDF : 1603260.9/79

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657 $\pm$ 0.000 χ^2 /NDF: 6432420267.9/16

Left Out: 1.652 $\pm$ 0.000 χ^2 /NDF:13300345690.3/22

Right Out: 1.664 $\pm$ 0.000 χ^2 /NDF: 5940917748.5/18

Left In: 1.603 $\pm$ 0.000 χ^2 /NDF:11401345866.3/20

Left: 1.629 $\pm$ 0.000 χ^2 /NDF: 24876625771.0/43

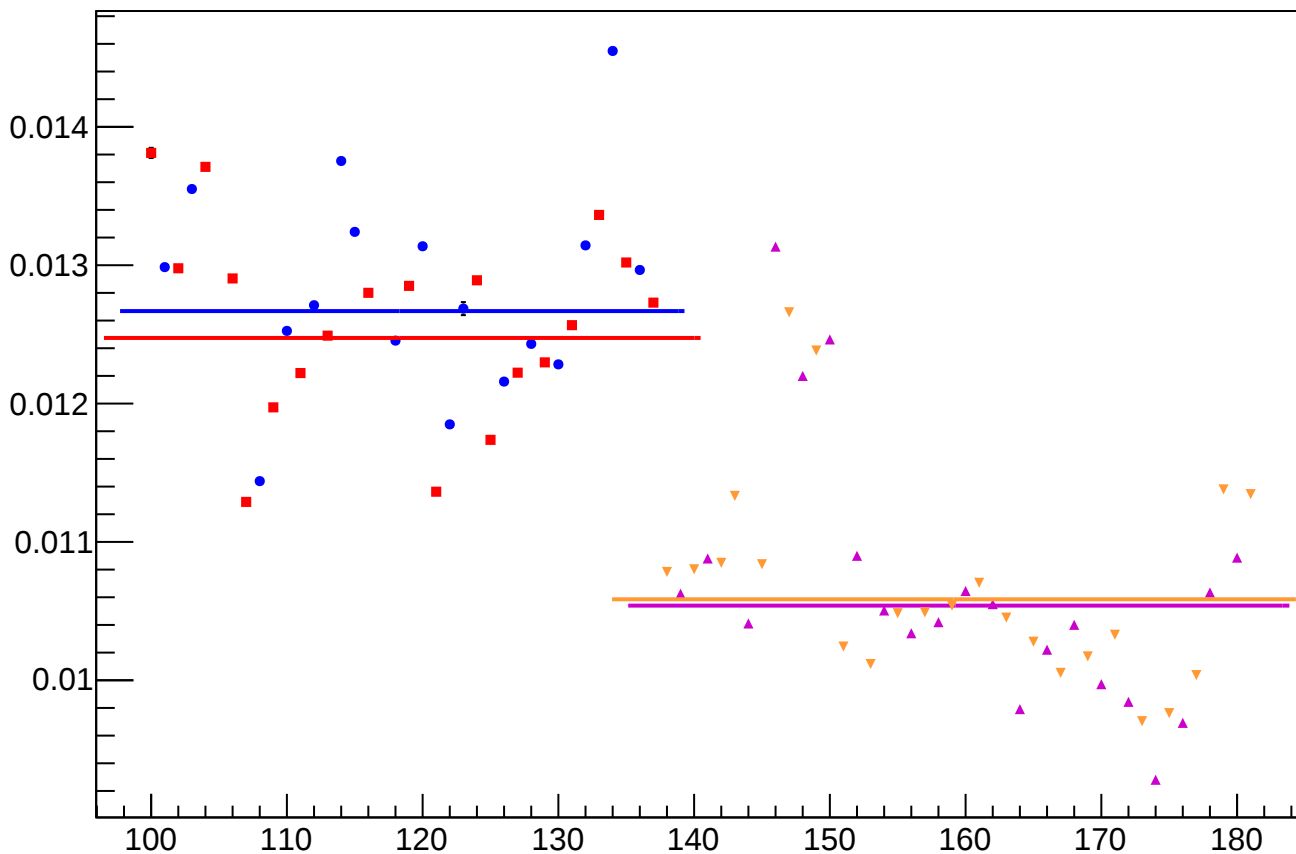
Right: 1.661 $\pm$ 0.000 χ^2 /NDF: 12374534399.5/35

In: 1.615 $\pm$ 0.000 χ^2 /NDF:17924753068.0/37

Out: 1.655 $\pm$ 0.000 χ^2 /NDF:19246189342.8/41

All: 1.636 $\pm$ 0.000 χ^2 /NDF: 37319467238.8/77

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 31725.8/16

Left Out: 0.011+/-0.000 χ^2/NDF :135566.5/22

Right Out: 0.012+/-0.000 χ^2/NDF : 38559.4/18

Left In: 0.011+/-0.000 χ^2/NDF :183723.6/20

Left: 0.011+/-0.000 χ^2/NDF : 319591.0/43

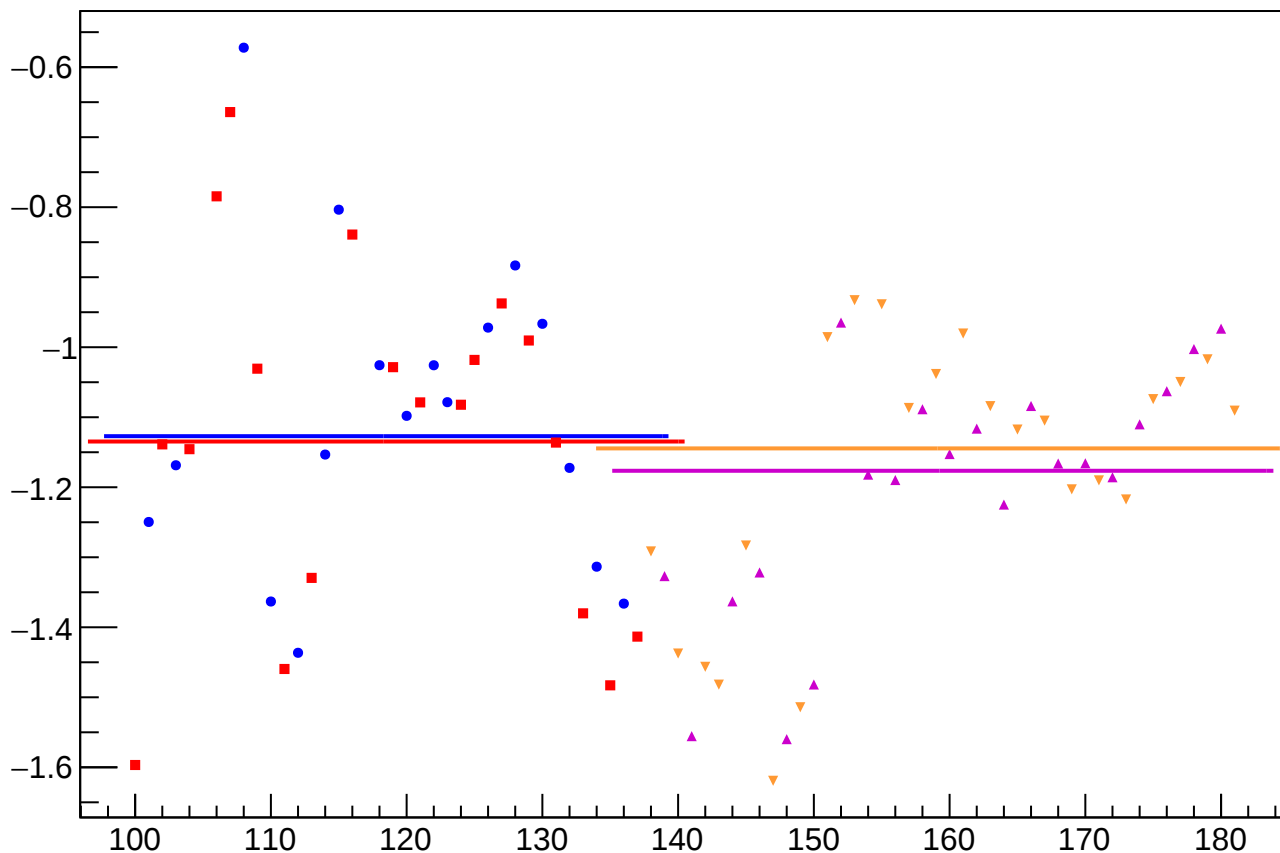
Right: 0.013+/-0.000 χ^2/NDF : 71882.0/35

In: 0.011+/-0.000 χ^2/NDF :501620.6/37

Out: 0.011+/-0.000 χ^2/NDF :417150.1/41

All: 0.011+/-0.000 χ^2/NDF : 918771.4/79

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.127+/-0.000 χ^2/NDF : 3546179478.6/16

Left Out: -1.145+/-0.000 χ^2/NDF : 7713133106.9/22

Right Out: -1.135+/-0.000 χ^2/NDF : 3674870672.6/18

Left In: -1.176+/-0.000 χ^2/NDF : 6103293572.8/20

Left: -1.160+/-0.000 χ^2/NDF : 13947265663.1/43

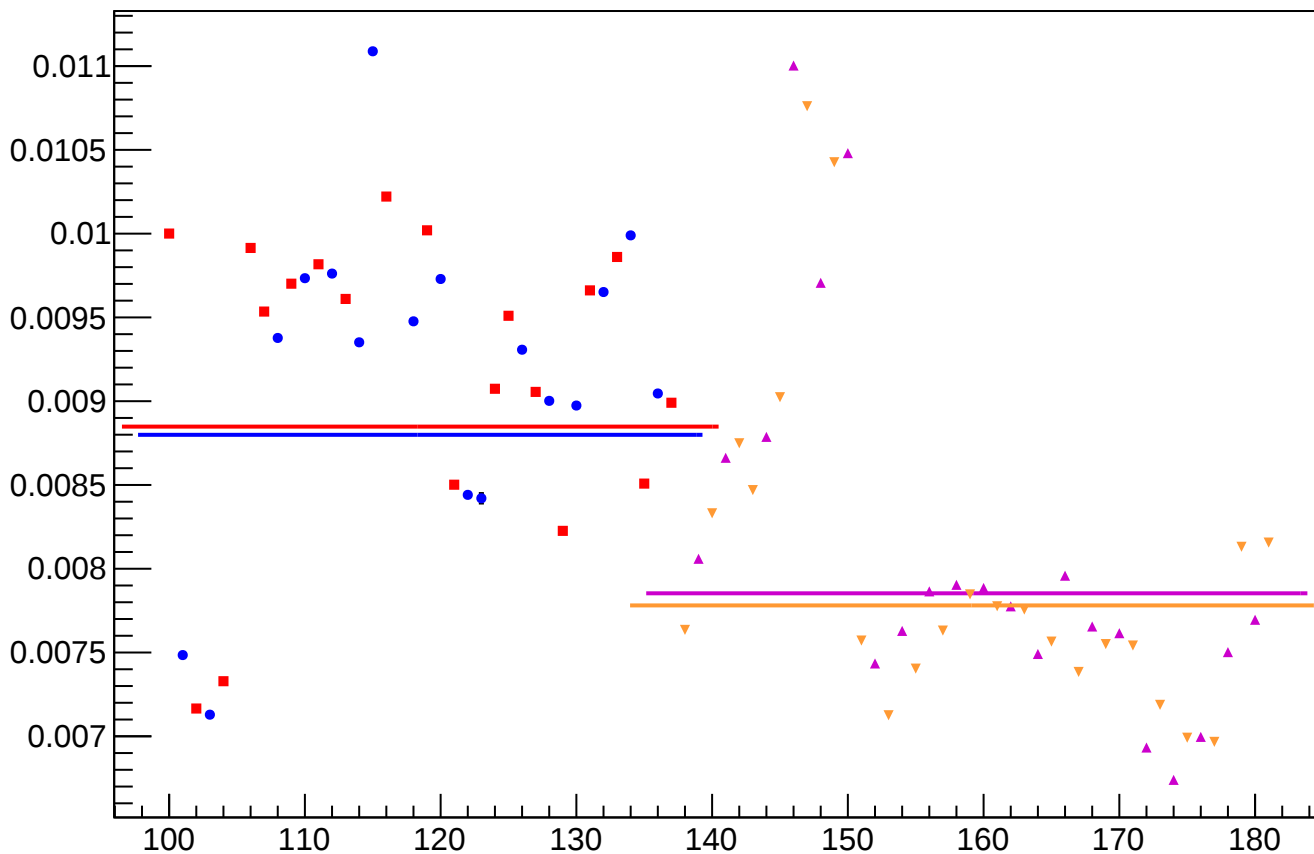
Right: -1.131+/-0.000 χ^2/NDF : 7223462061.2/35

In: -1.164+/-0.000 χ^2/NDF : 9799745686.4/37

Out: -1.142+/-0.000 χ^2/NDF : 11394199927.6/41

All: -1.153+/-0.000 χ^2/NDF : 21275901041.4/76

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 151524.0/16

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:315966.7/22

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 174016.9/18

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:377679.9/20

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 694984.7/43

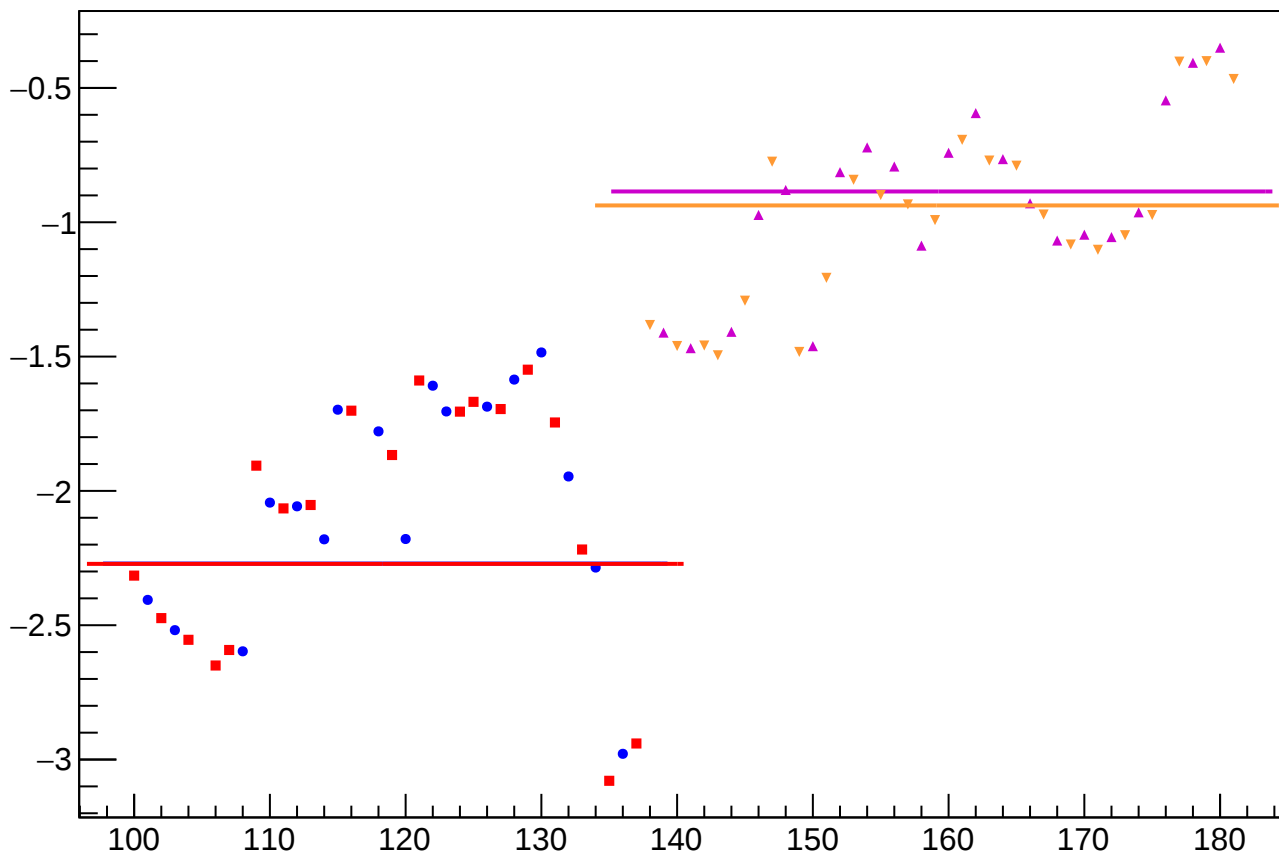
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 325740.2/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:639350.4/37

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:635793.2/41

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 1276079.4/79

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.271+/-0.000 χ^2/NDF : 17322622121.9/16

Left Out: -0.937+/-0.000 χ^2/NDF : 41820818464.3/22

Right Out: -2.272+/-0.000 χ^2/NDF : 19002792241.6/18

Left In: -0.885+/-0.000 χ^2/NDF : 39264873058.5/20

Left: -0.912+/-0.000 χ^2/NDF : 81645822990.7/43

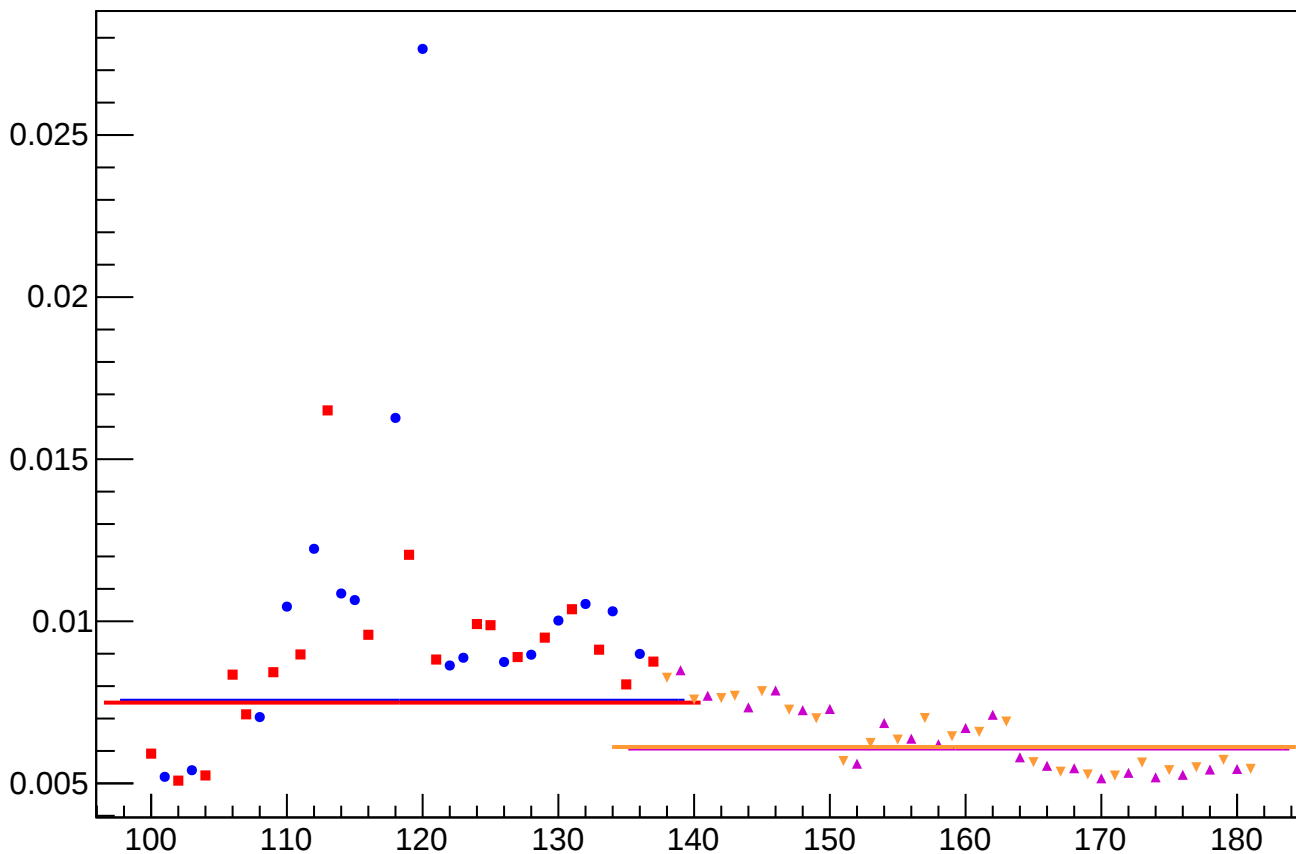
Right: -2.271+/-0.000 χ^2/NDF : 36325463324.0/35

In: -1.132+/-0.000 χ^2/NDF : 195453120850.3/37

Out: -1.191+/-0.000 χ^2/NDF : 204393958310.1/41

All: -1.163+/-0.000 χ^2/NDF : 400744357922.5

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1215131.1/16

Left Out: 0.006+/-0.000 χ^2/NDF : 622738.1/22

Right Out: 0.007+/-0.000 χ^2/NDF : 926036.5/18

Left In: 0.006+/-0.000 χ^2/NDF : 690654.5/20

Left: 0.006+/-0.000 χ^2/NDF : 1314332.3/43

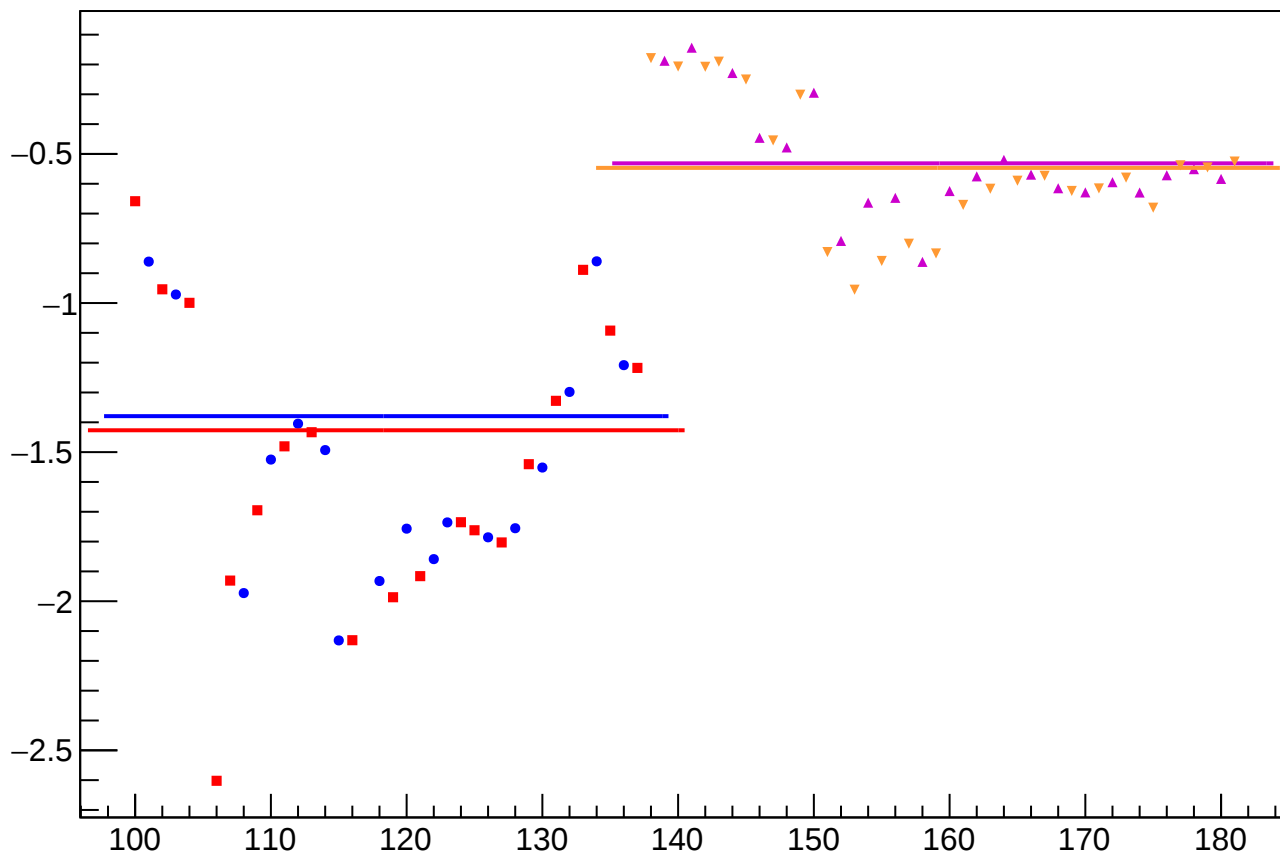
Right: 0.008+/-0.000 χ^2/NDF : 2141481.5/35

In: 0.006+/-0.000 χ^2/NDF : 2220456.2/37

Out: 0.006+/-0.000 χ^2/NDF : 1851017.2/41

All: 0.006+/-0.000 χ^2/NDF : 4072537.4/79

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.379+/-0.000 χ^2/NDF : 19933785465.4/16

Left Out: -0.547+/-0.000 χ^2/NDF : 46200191904.2/22

Right Out: -1.427+/-0.000 χ^2/NDF : 29588471982.5/18

Left In: -0.532+/-0.000 χ^2/NDF : 30634602778.5/20

Left: -0.539+/-0.000 χ^2/NDF : 76940371259.7/43

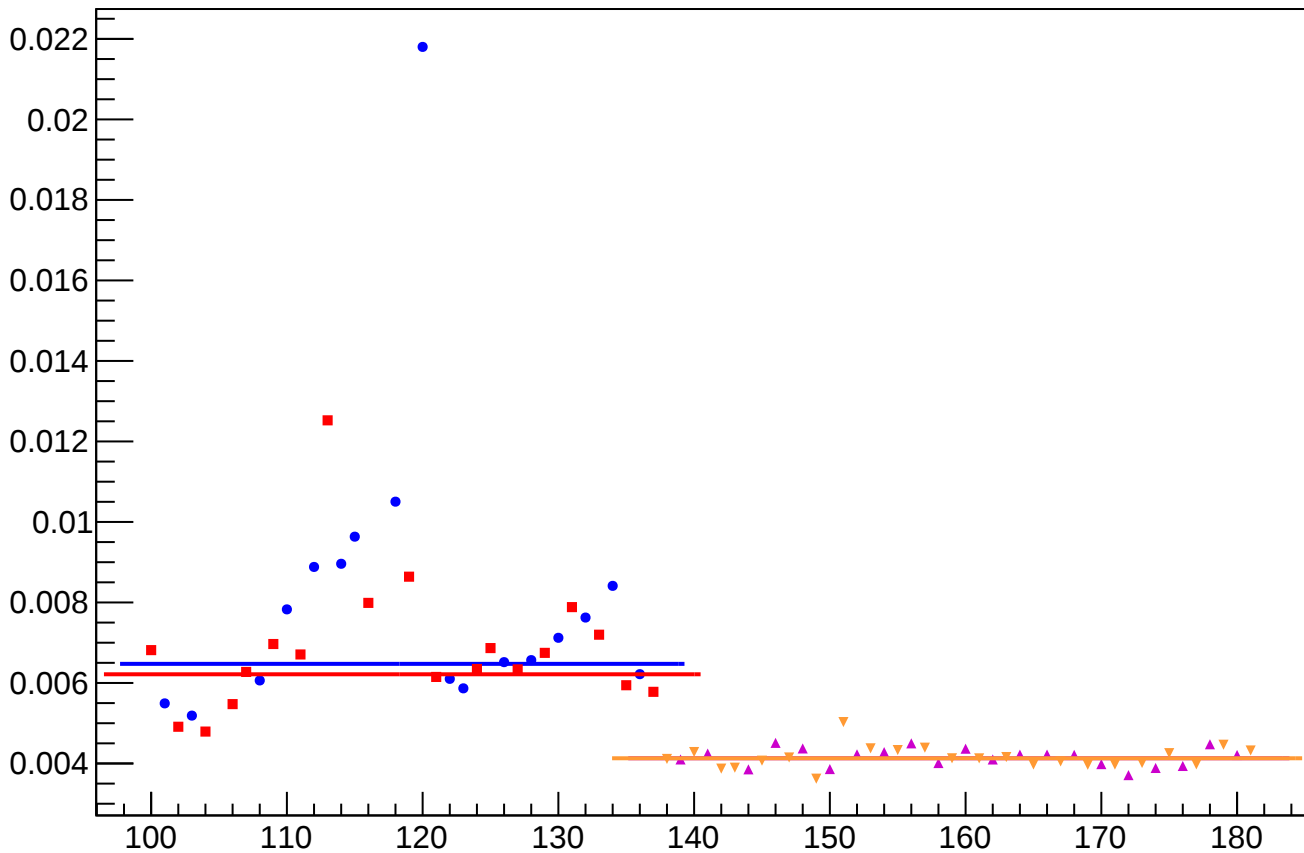
Right: -1.405+/-0.000 χ^2/NDF : 49678951559.0/35

In: -0.640+/-0.000 χ^2/NDF : 131713196050.5/37

Out: -0.670+/-0.000 χ^2/NDF : 176891356432.0/41

All: -0.655+/-0.000 χ^2/NDF : 309063054958.1

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 570434.3/16

Left Out: 0.004+/-0.000 χ^2/NDF :111142.0/22

Right Out: 0.006+/-0.000 χ^2/NDF : 418205.6/18

Left In: 0.004+/-0.000 χ^2/NDF :87950.5/20

Left: 0.004+/-0.000 χ^2/NDF : 199092.6/43

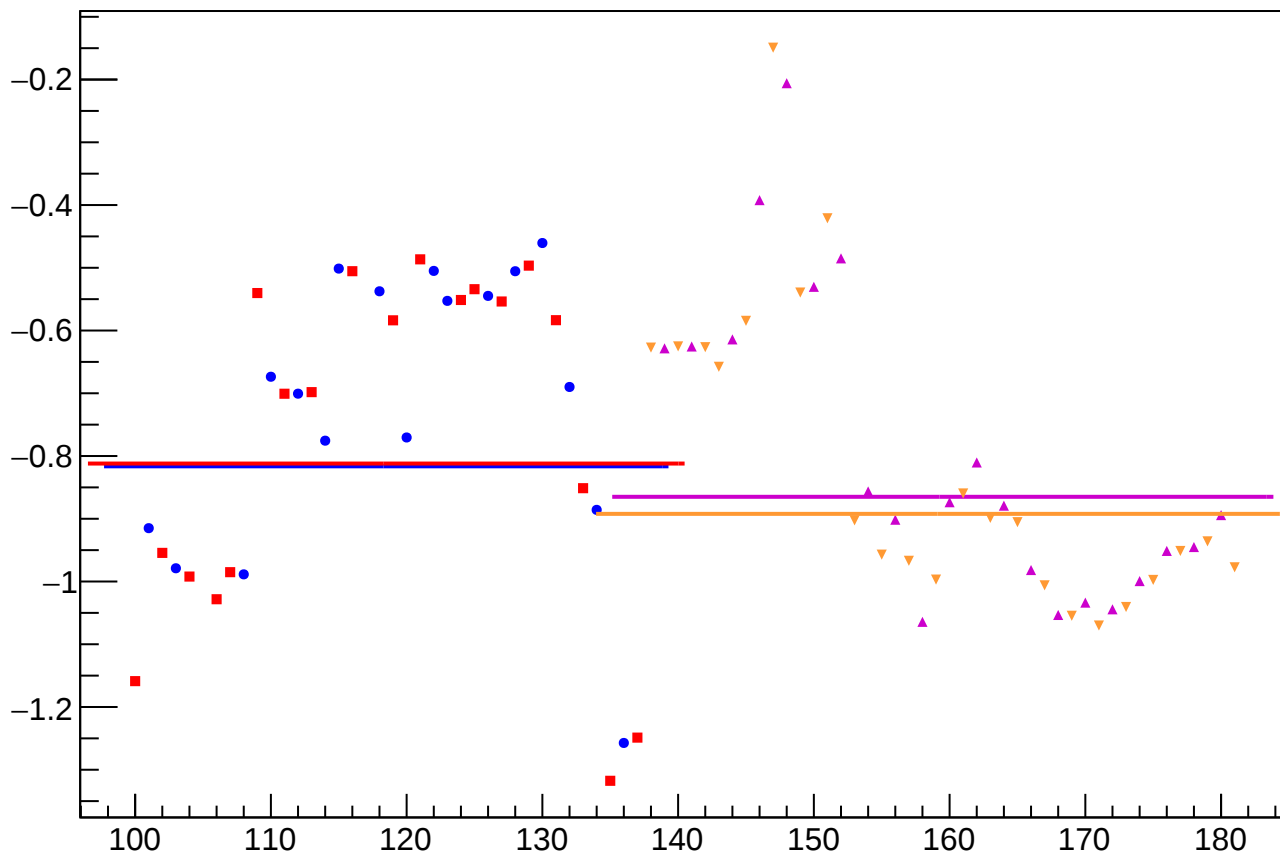
Right: 0.006+/-0.000 χ^2/NDF : 998013.7/35

In: 0.004+/-0.000 χ^2/NDF :1900183.5/37

Out: 0.004+/-0.000 χ^2/NDF :1666331.7/41

All: 0.004+/-0.000 χ^2/NDF : 3566603.9/79

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.816 $\pm$ 0.000 χ^2/NDF : 14108272810.0/16

Left Out: -0.892 $\pm$ 0.000 χ^2/NDF : 40577377784.5/22

Right Out: -0.812 $\pm$ 0.000 χ^2/NDF : 16809508448.8/18

Left In: -0.865 $\pm$ 0.000 χ^2/NDF : 43700457118.6/20

Left: -0.879 $\pm$ 0.000 χ^2/NDF : 84667764600.6/43

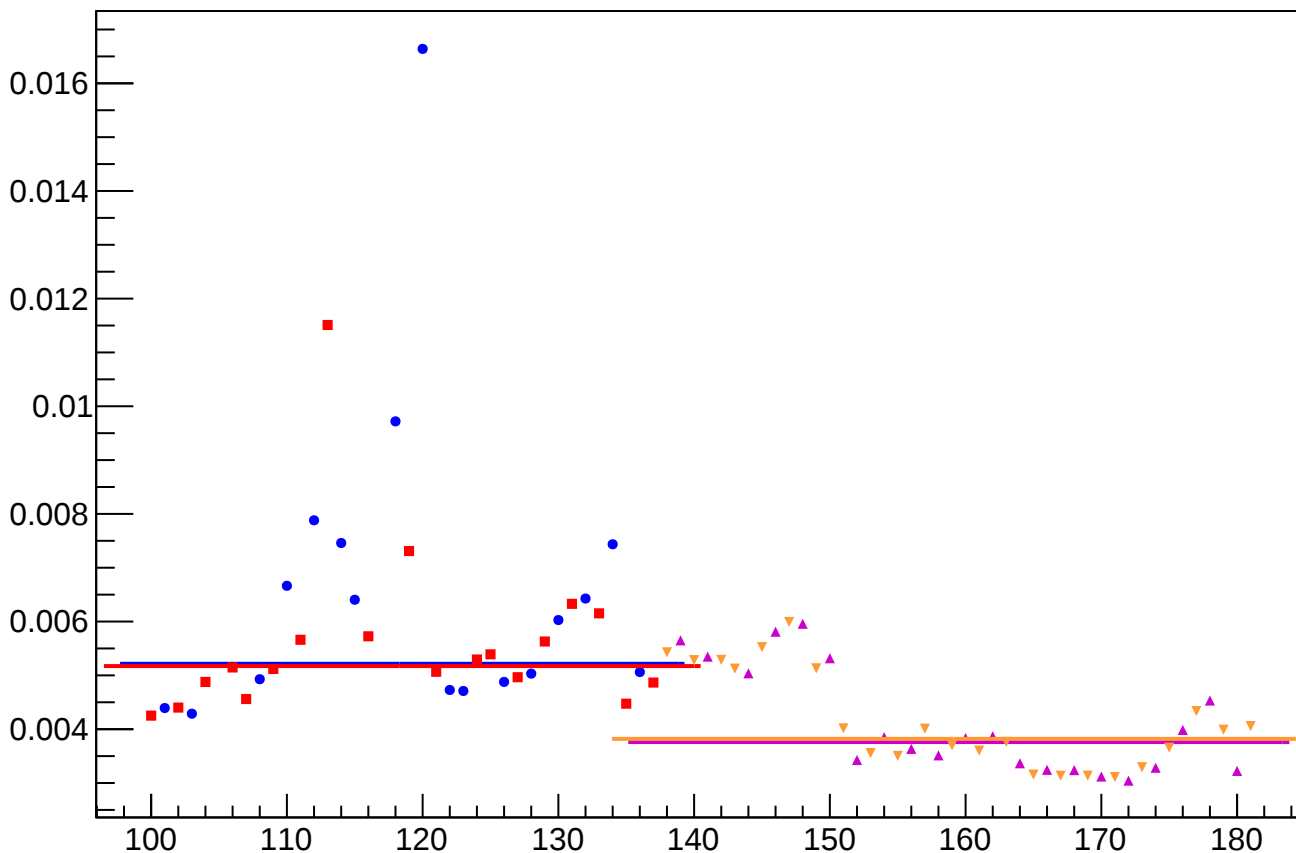
Right: -0.814 $\pm$ 0.000 χ^2/NDF : 30919803478.2/35

In: -0.857 $\pm$ 0.000 χ^2/NDF : 58197713847.2/37

Out: -0.878 $\pm$ 0.000 χ^2/NDF : 58566294004.0/41

All: -0.868 $\pm$ 0.000 χ^2/NDF : 117045417601.9

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 662832.6/16

Left Out: 0.004+/-0.000 χ^2/NDF :1157518.3/22

Right Out: 0.005+/-0.000 χ^2/NDF : 359707.6/18

Left In: 0.004+/-0.000 χ^2/NDF :1279257.5/20

Left: 0.004+/-0.000 χ^2/NDF : 2440444.4/43

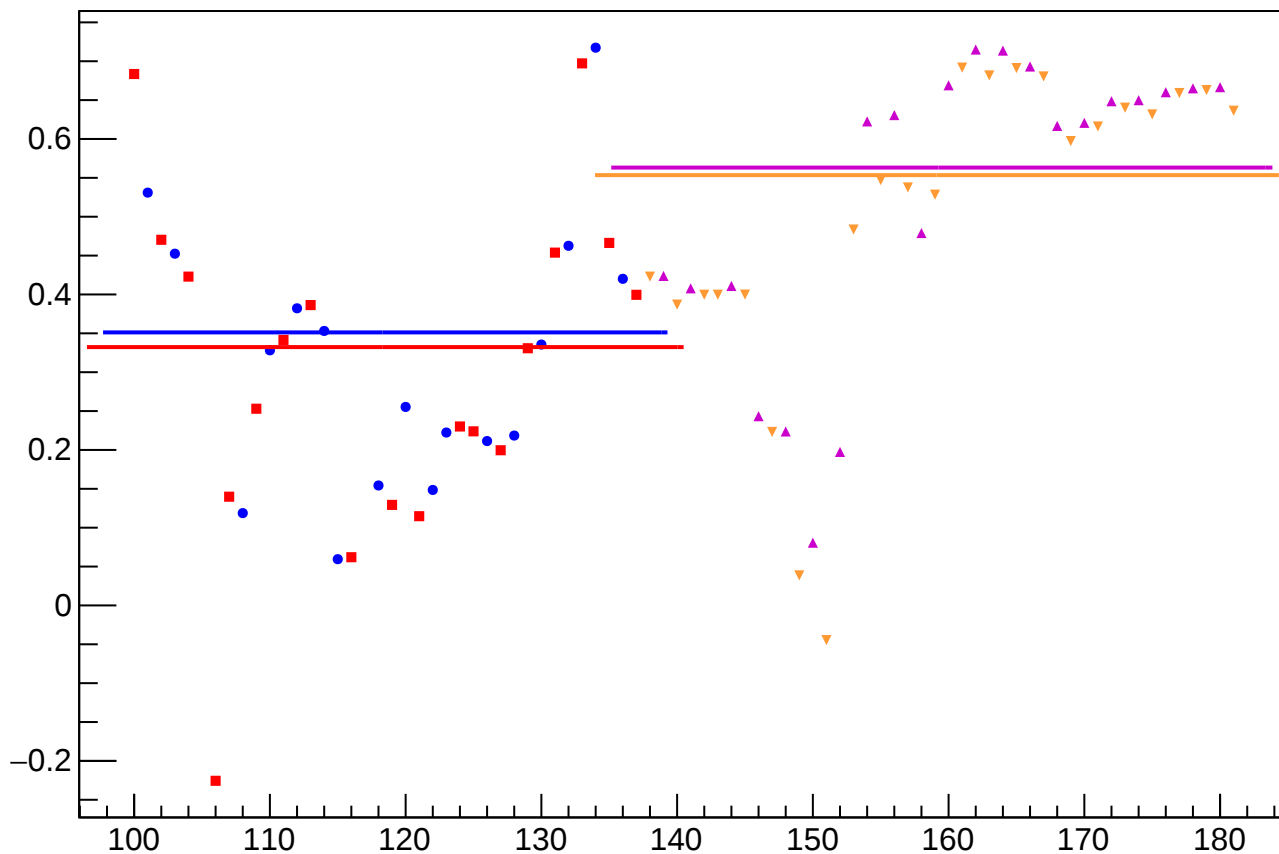
Right: 0.005+/-0.000 χ^2/NDF : 1022911.9/35

In: 0.004+/-0.000 χ^2/NDF :2638821.7/37

Out: 0.004+/-0.000 χ^2/NDF :2188327.7/41

All: 0.004+/-0.000 χ^2/NDF : 4831875.5/79

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.351+/-0.000

χ^2/NDF : 7385246200.8/16

Left: 0.558+/-0.000

χ^2/NDF : 84281661441.8/43

Left Out: 0.553+/-0.000

χ^2/NDF : 43245921410.8/22

Right: 0.341+/-0.000

χ^2/NDF : 19234190594.7/35

Right Out: 0.332+/-0.000

χ^2/NDF : 11783358695.7/18

In: 0.523+/-0.000

χ^2/NDF : 60929136910.6/37

Out: 0.509+/-0.000

χ^2/NDF : 70324698960.8/41

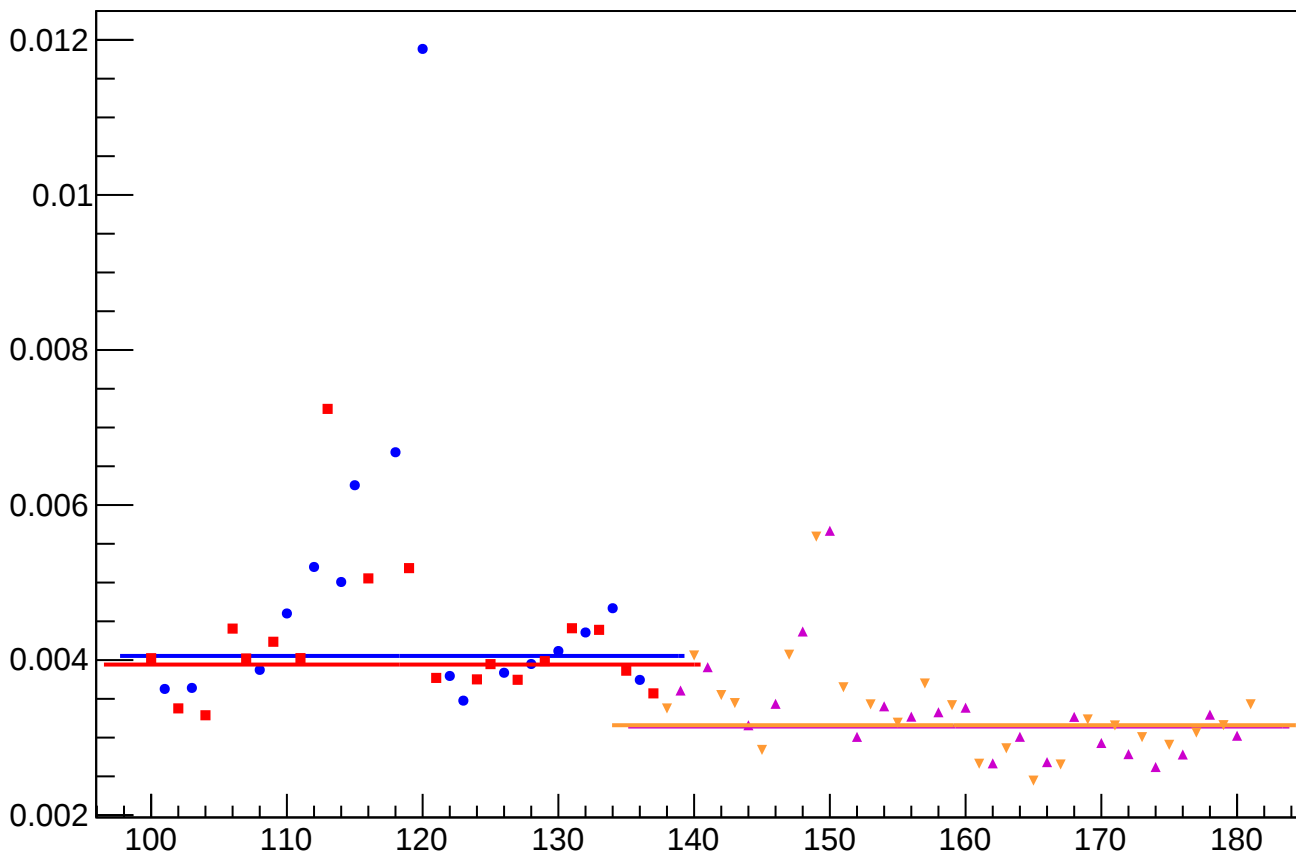
Left In: 0.563+/-0.000

χ^2/NDF : 40964672575.9/20

All: 0.516+/-0.000

χ^2/NDF : 131447560077.8

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 453717.7/16

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 736631.6/22

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 259219.7/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 714476.1/20

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 1451545.5/43

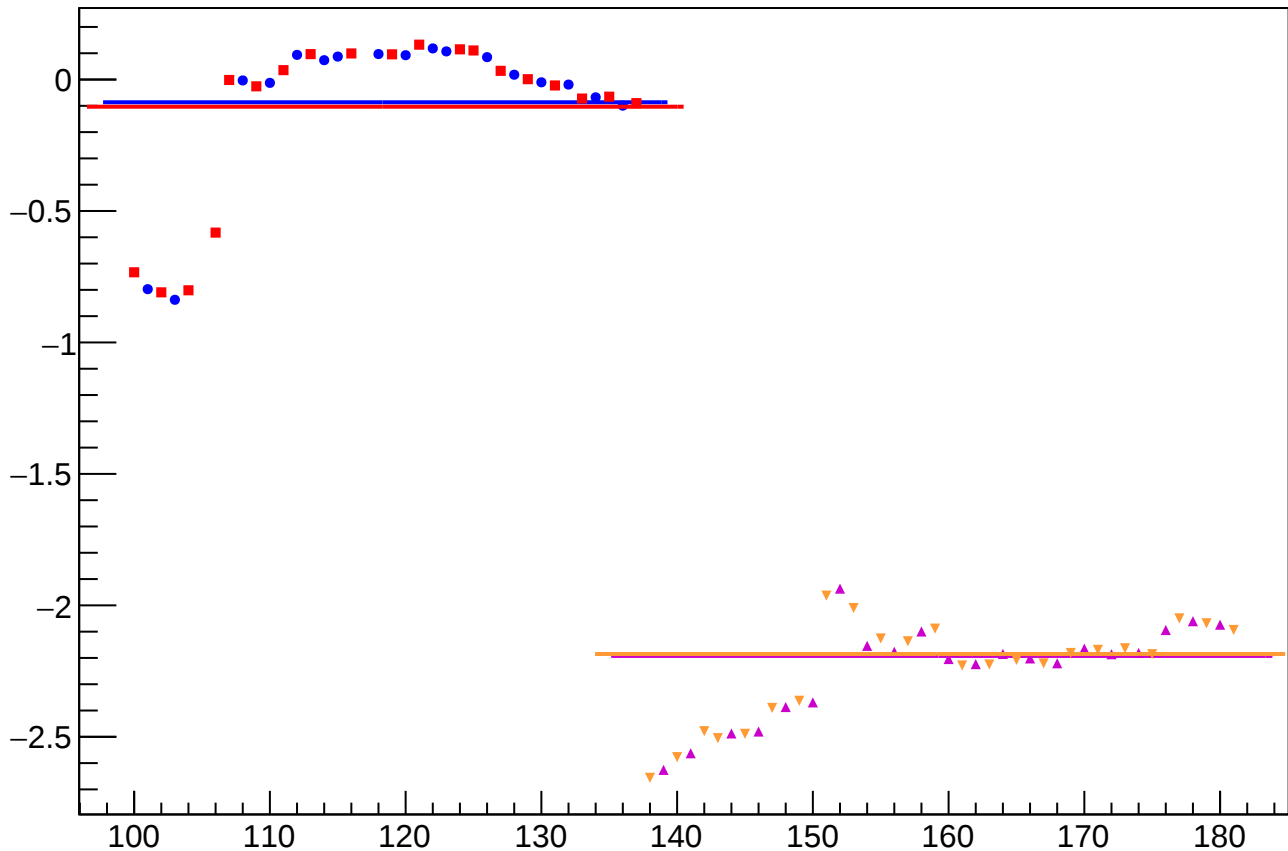
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 717489.4/35

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1632575.8/37

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 1378714.7/41

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 3011307.4/79

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.086+/-0.000 χ^2/NDF : 4986216359.8/16

Left Out: -2.185+/-0.000 χ^2/NDF : 3908707944.0/22

Right Out: -0.103+/-0.000 χ^2/NDF : 5547327629.3/18

Left In: -2.192+/-0.000 χ^2/NDF : 3241456513.6/20

Left: -2.189+/-0.000 χ^2/NDF : 7154257046.3/43

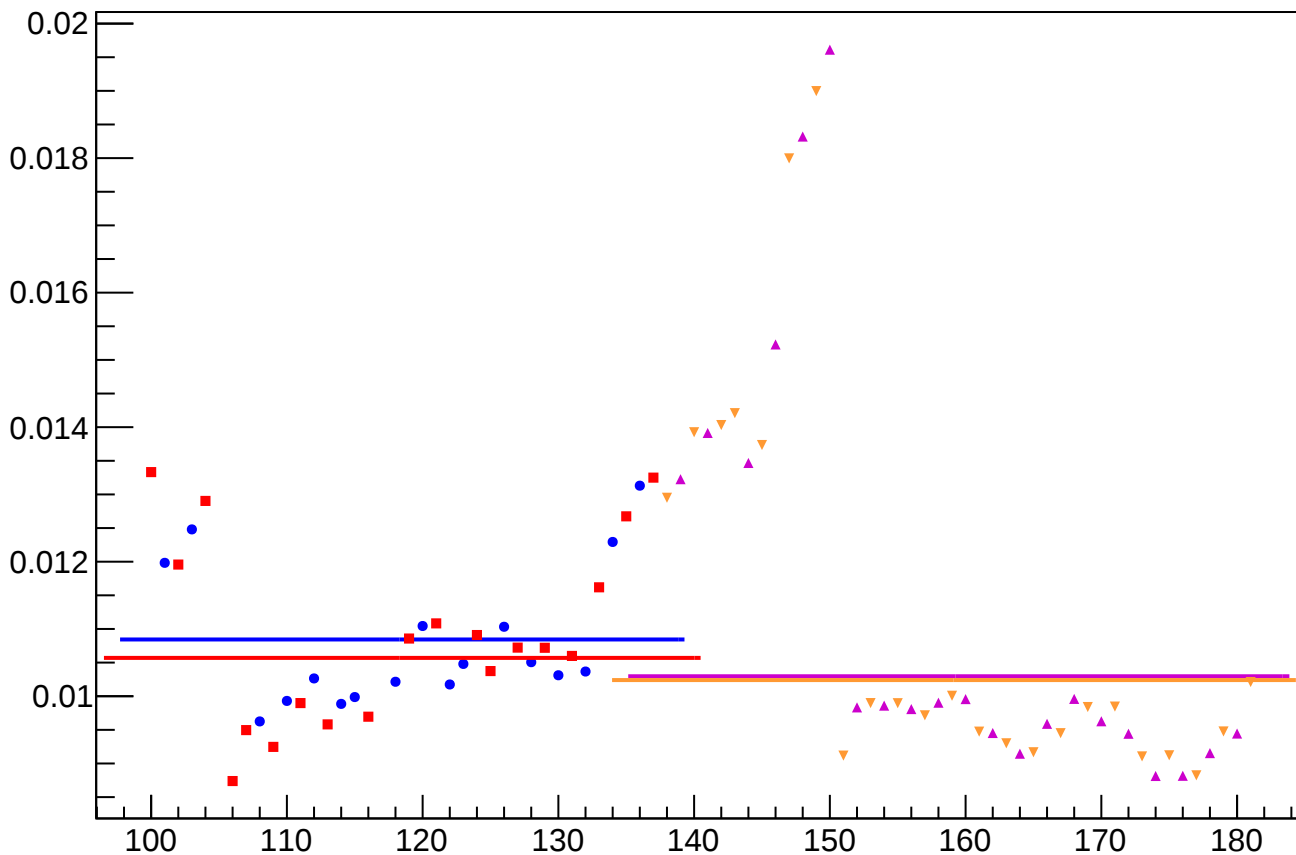
Right: -0.095+/-0.000 χ^2/NDF : 10541991957.2/35

In: -1.609+/-0.000 χ^2/NDF : 188570974565.5/37

Out: -1.597+/-0.000 χ^2/NDF : 204016443102.8/41

All: -1.603+/-0.000 χ^2/NDF : 392602408430.0

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124179.6/16

Left Out: 0.010+/-0.000 χ^2/NDF :1254592.4/22

Right Out: 0.011+/-0.000 χ^2/NDF : 178759.8/18

Left In: 0.010+/-0.000 χ^2/NDF :1335506.8/20

Left: 0.010+/-0.000 χ^2/NDF : 2590590.3/43

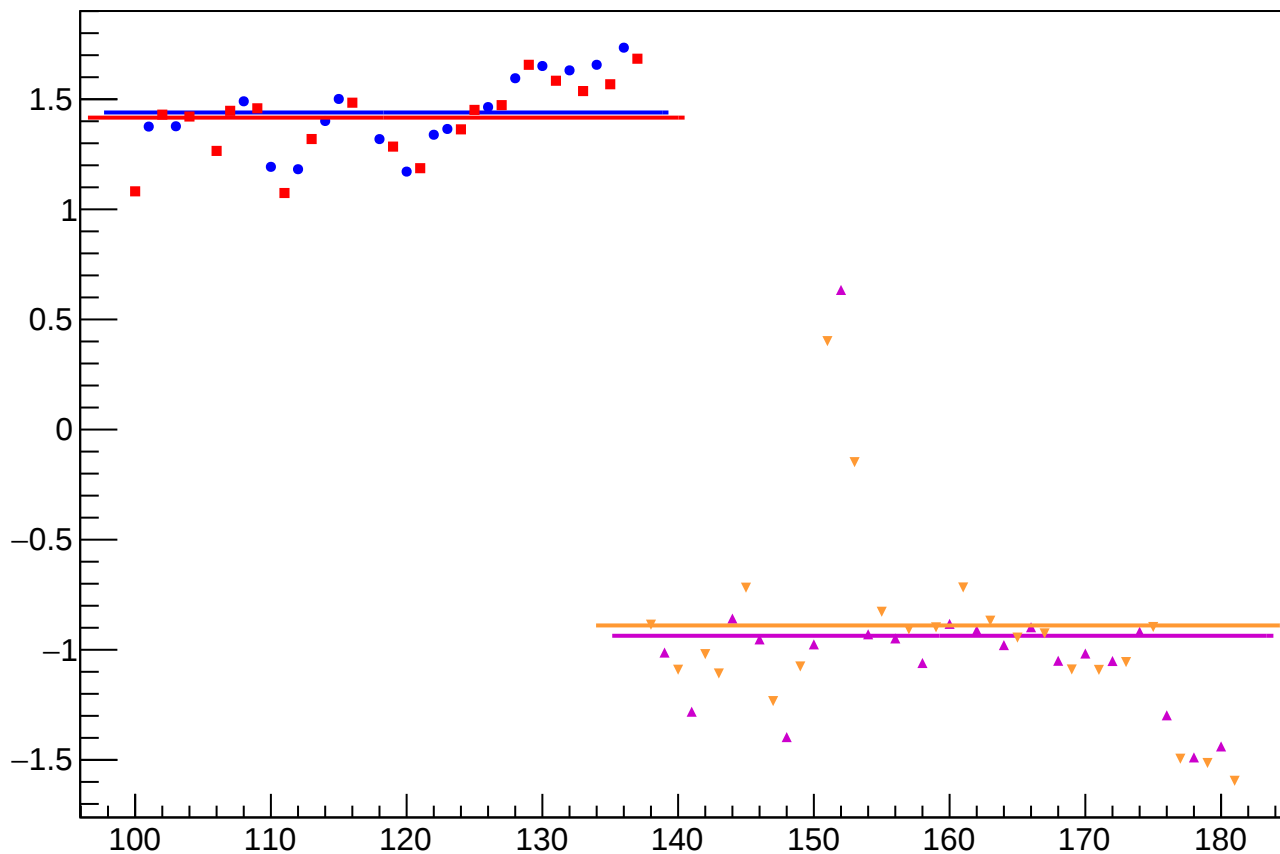
Right: 0.011+/-0.000 χ^2/NDF : 307381.8/35

In: 0.010+/-0.000 χ^2/NDF :1484008.3/37

Out: 0.010+/-0.000 χ^2/NDF :1443117.5/41

All: 0.010+/-0.000 χ^2/NDF : 2929932.9/79

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.000 χ^2 /NDF: 3439698839.5/16

Left Out: -0.889 $\pm$ 0.000 χ^2 /NDF: 50817187388.8/22

Right Out: 1.416 $\pm$ 0.000 χ^2 /NDF: 2670163204.9/18

Left In: -0.936 $\pm$ 0.000 χ^2 /NDF: 50507384199.7/20

Left: -0.912 $\pm$ 0.000 χ^2 /NDF: 101581284623.0/43

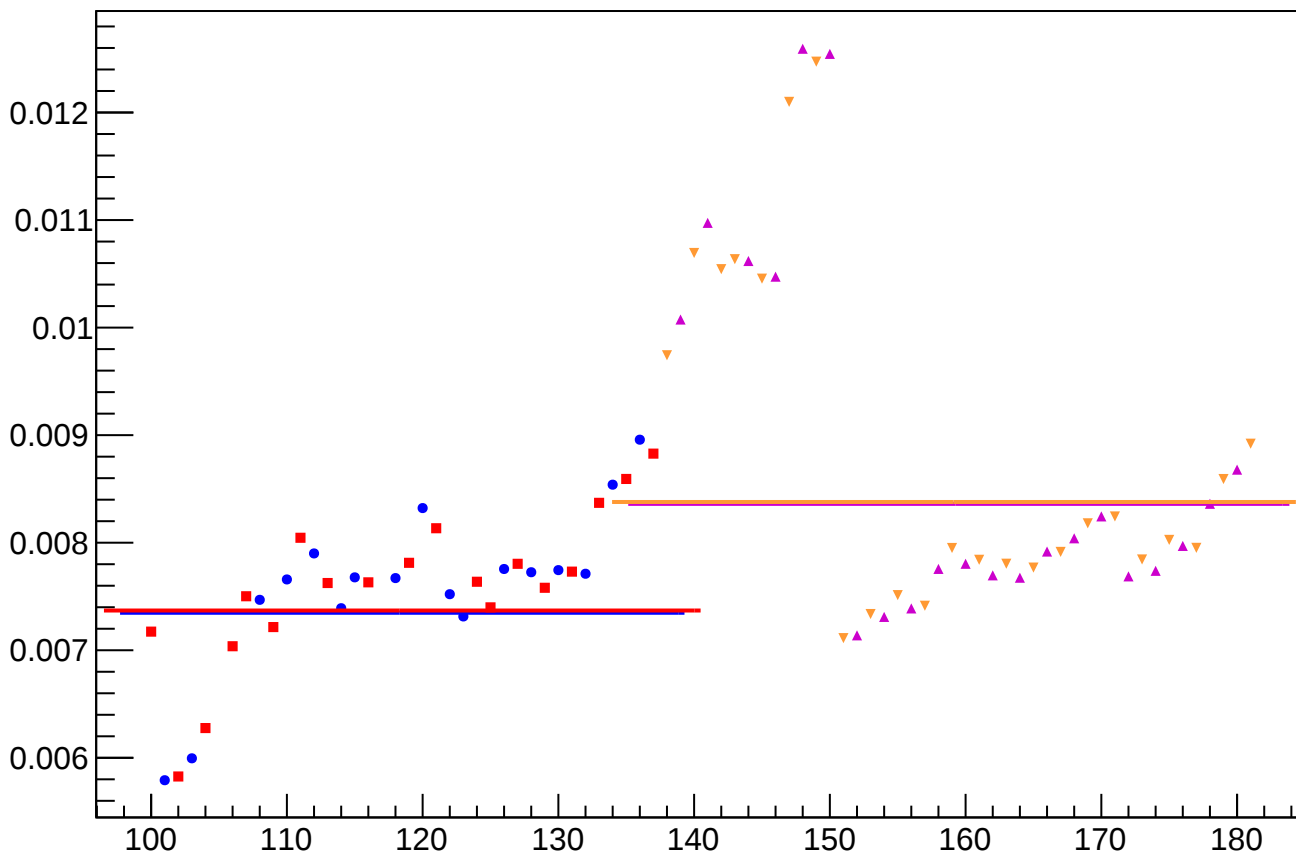
Right: 1.428 $\pm$ 0.000 χ^2 /NDF: 6143895707.9/35

In: -0.106 $\pm$ 0.000 χ^2 /NDF: 500497300137.7/37

Out: -0.086 $\pm$ 0.000 χ^2 /NDF: 499693834165.5/41

All: -0.096 $\pm$ 0.000 χ^2 /NDF: 1000262383293

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 228667.0/16

Left Out: 0.008+/-0.000 χ^2/NDF : 763563.7/22

Right Out: 0.007+/-0.000 χ^2/NDF : 172418.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 832450.0/20

Left: 0.008+/-0.000 χ^2/NDF : 1596085.9/43

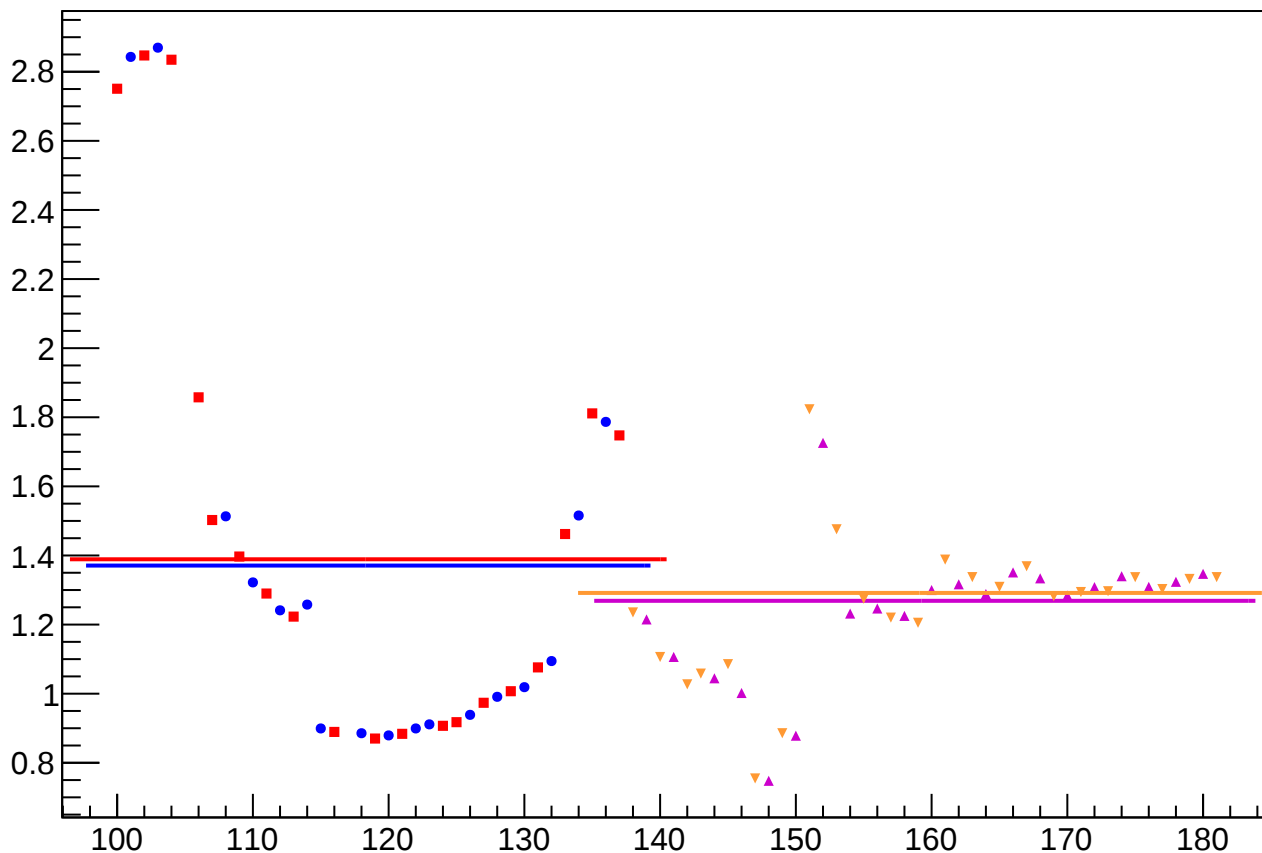
Right: 0.007+/-0.000 χ^2/NDF : 401140.2/35

In: 0.008+/-0.000 χ^2/NDF : 1223241.9/37

Out: 0.008+/-0.000 χ^2/NDF : 1106872.9/41

All: 0.008+/-0.000 χ^2/NDF : 2330255.5/79

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.371+/-0.000 χ^2/NDF : 54119122912.8/16

Left Out: 1.292+/-0.000 χ^2/NDF : 9198085855.5/22

Right Out: 1.389+/-0.000 χ^2/NDF : 49832414351.9/18

Left In: 1.269+/-0.000 χ^2/NDF : 7520704202.9/20

Left: 1.281+/-0.000 χ^2/NDF : 16781601396.8/43

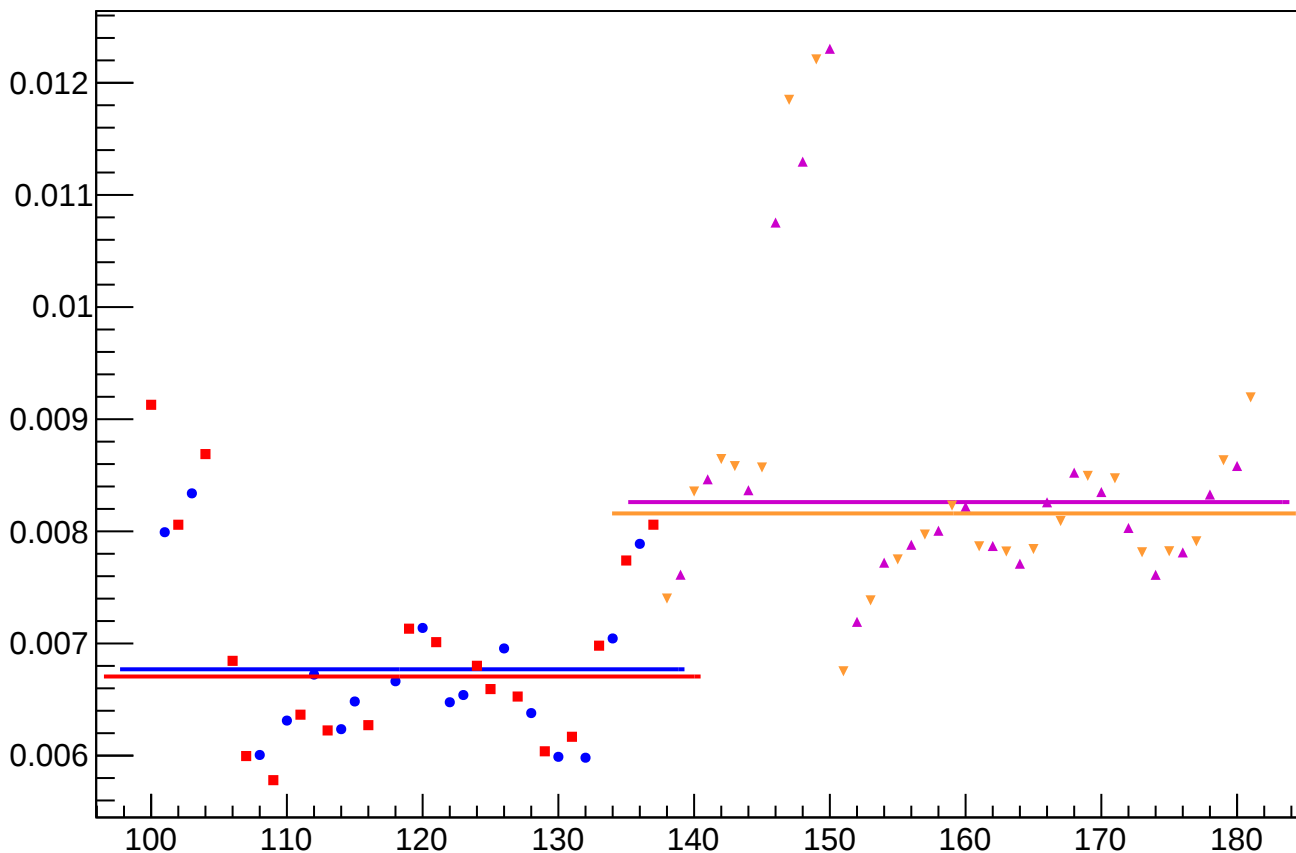
Right: 1.380+/-0.000 χ^2/NDF : 103976218990.2/35

In: 1.308+/-0.000 χ^2/NDF : 62562187588.7/37

Out: 1.329+/-0.000 χ^2/NDF : 59939936174.8/41

All: 1.319+/-0.000 χ^2/NDF : 122586925041.3

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 158743.1/16

Left Out: 0.008+/-0.000 χ^2/NDF :449654.2/22

Right Out: 0.007+/-0.000 χ^2/NDF : 189225.3/18

Left In: 0.008+/-0.000 χ^2/NDF :449621.2/20

Left: 0.008+/-0.000 χ^2/NDF : 901731.7/43

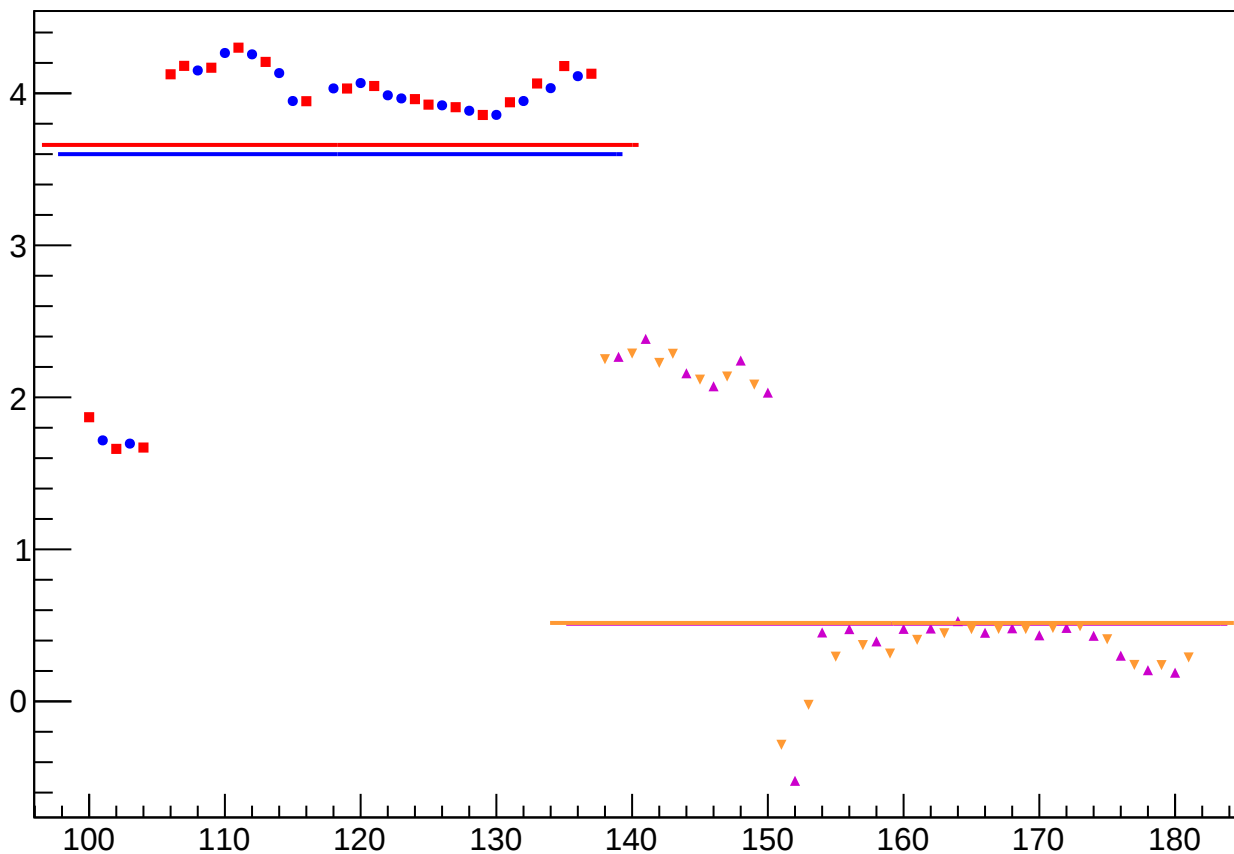
Right: 0.007+/-0.000 χ^2/NDF : 348586.5/35

In: 0.008+/-0.000 χ^2/NDF :1002261.0/37

Out: 0.008+/-0.000 χ^2/NDF :1044648.9/41

All: 0.008+/-0.000 χ^2/NDF : 2049656.6/79

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.600 $\pm$ 0.000 χ^2 /NDF: 185703271625.0/16

Left Out: 0.516 $\pm$ 0.000 χ^2 /NDF: 267067402408.3/22

Right Out: 3.661 $\pm$ 0.000 χ^2 /NDF: 192461584002.7/18

Left In: 0.511 $\pm$ 0.000 χ^2 /NDF: 265959616630.2/20

Left: 0.513 $\pm$ 0.000 χ^2 /NDF: 533037194424.5/43

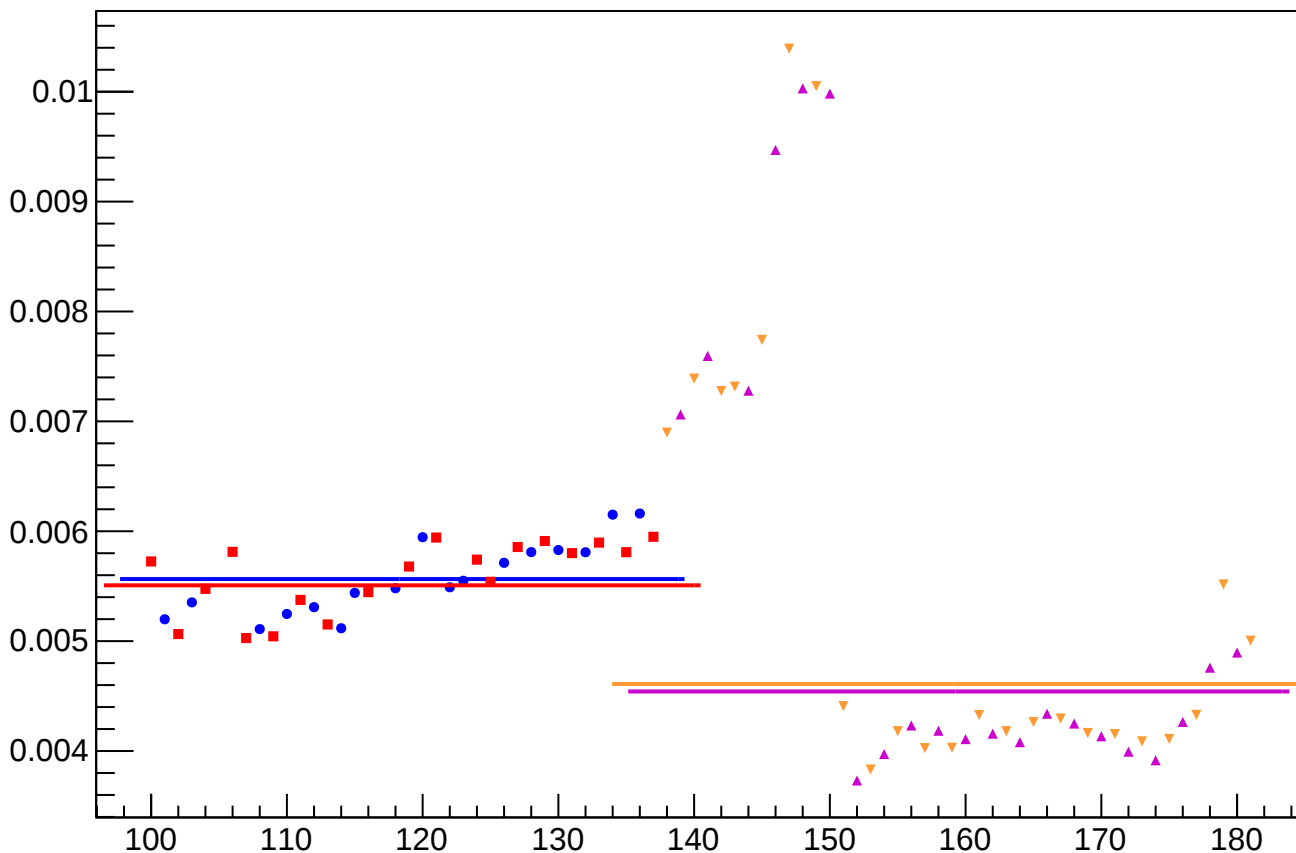
Right: 3.631 $\pm$ 0.000 χ^2 /NDF: 378573403824.4/35

In: 1.228 $\pm$ 0.000 χ^2 /NDF: 2027871333819.4/37

Out: 1.259 $\pm$ 0.000 χ^2 /NDF: 2185070342651.5/41

All: 1.244 $\pm$ 0.000 χ^2 /NDF: 4213416644947.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 48084.6/16

Left Out: 0.005+/-0.000 χ^2/NDF :2075488.1/22

Right Out: 0.006+/-0.000 χ^2/NDF : 52399.9/18

Left In: 0.005+/-0.000 χ^2/NDF :2235218.8/20

Left: 0.005+/-0.000 χ^2/NDF : 4314095.4/43

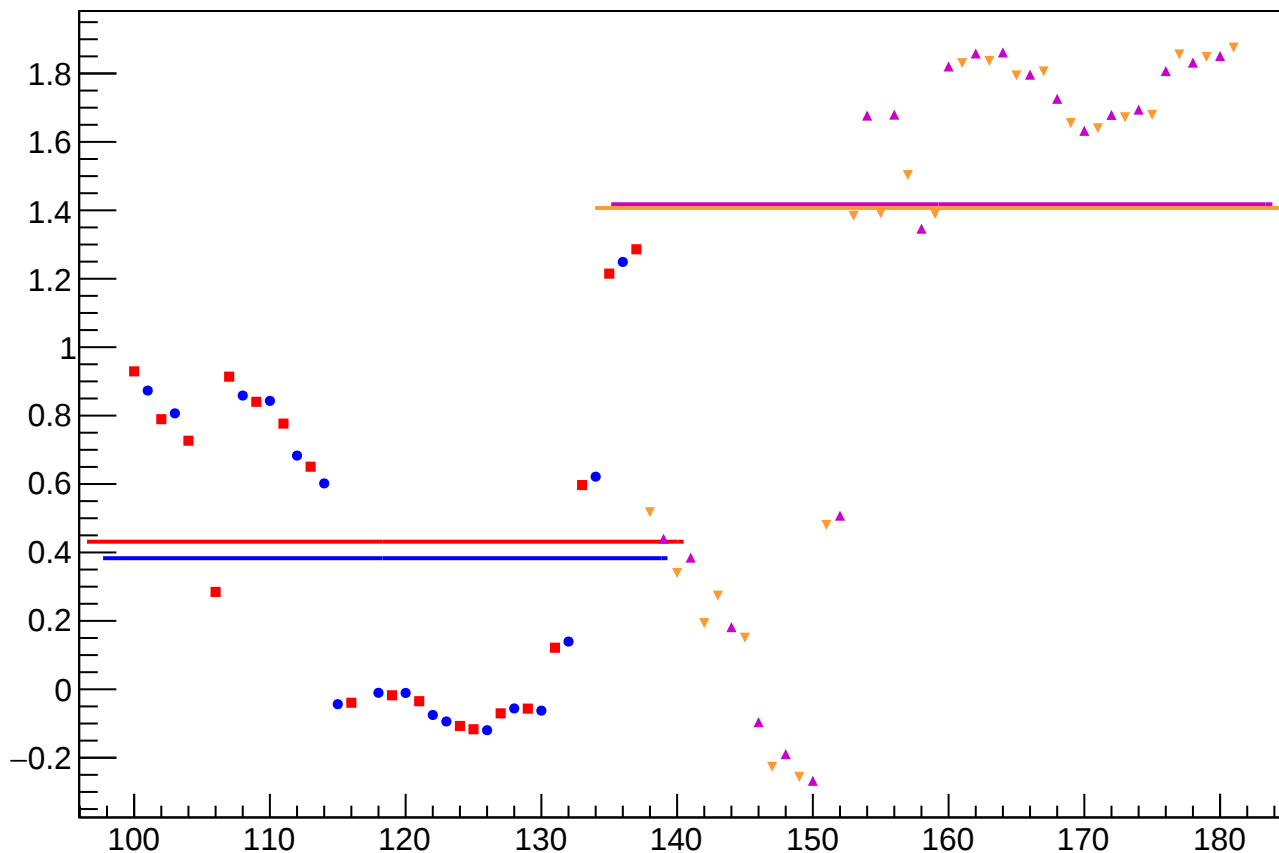
Right: 0.006+/-0.000 χ^2/NDF : 101204.4/35

In: 0.005+/-0.000 χ^2/NDF :2628965.7/37

Out: 0.005+/-0.000 χ^2/NDF :2409043.8/41

All: 0.005+/-0.000 χ^2/NDF : 5039770.6/79

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.383+/-0.000

χ^2/NDF : 7098148199.8/16

Left: 1.412+/-0.000

χ^2/NDF : 99991500494.2/43

Left Out: 1.407+/-0.000

χ^2/NDF : 47868162644.6/22

Right: 0.408+/-0.000

χ^2/NDF : 13788539120.9/35

Right Out: 0.431+/-0.000

χ^2/NDF : 6652460982.8/18

In: 1.213+/-0.000

χ^2/NDF : 86391386413.5/37

Out: 1.213+/-0.000

χ^2/NDF : 79996454041.6/41

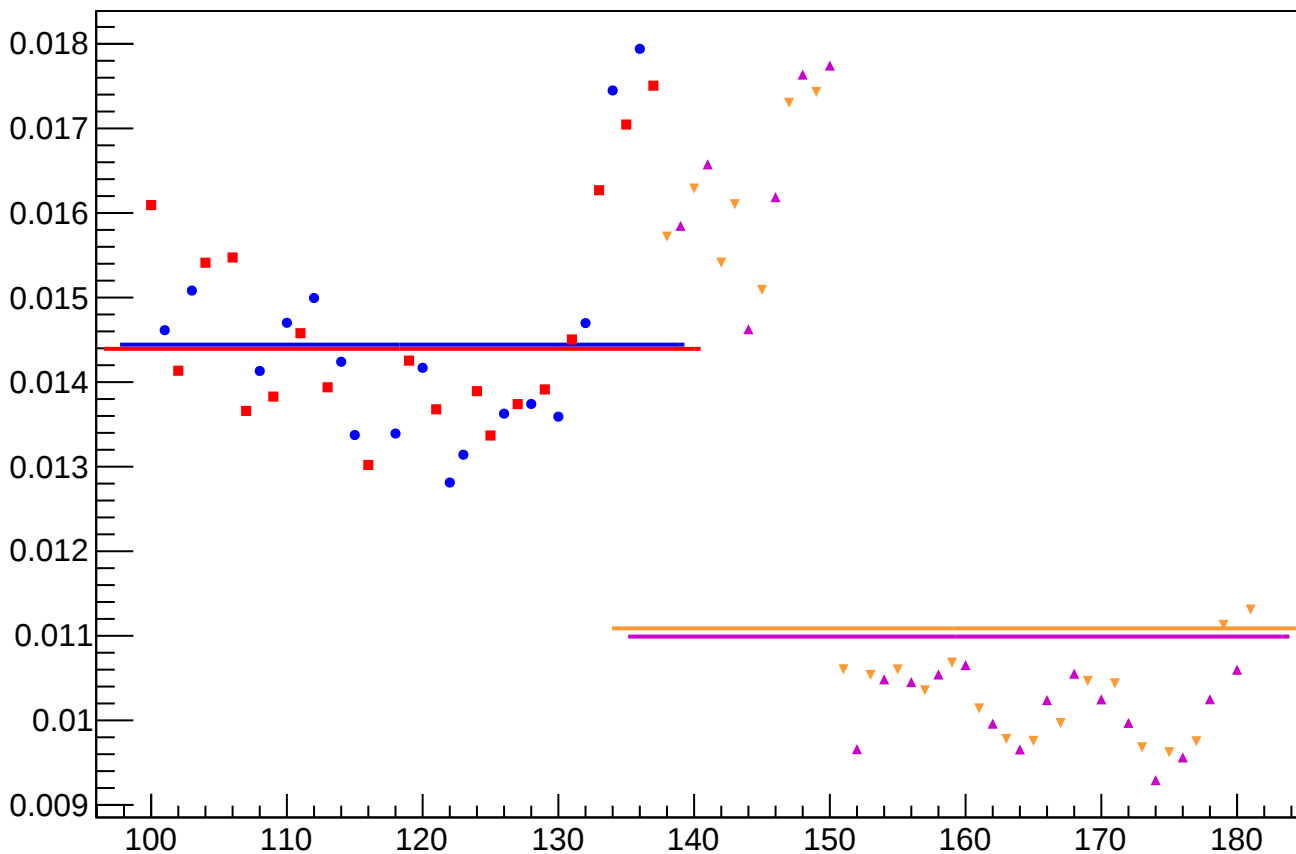
Left In: 1.418+/-0.000

χ^2/NDF : 52115678378.7/20

All: 1.213+/-0.000

χ^2/NDF : 166387843202.6

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 109417.4/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1207020.3/22

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 74186.8/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1264201.6/20

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2472463.9/43

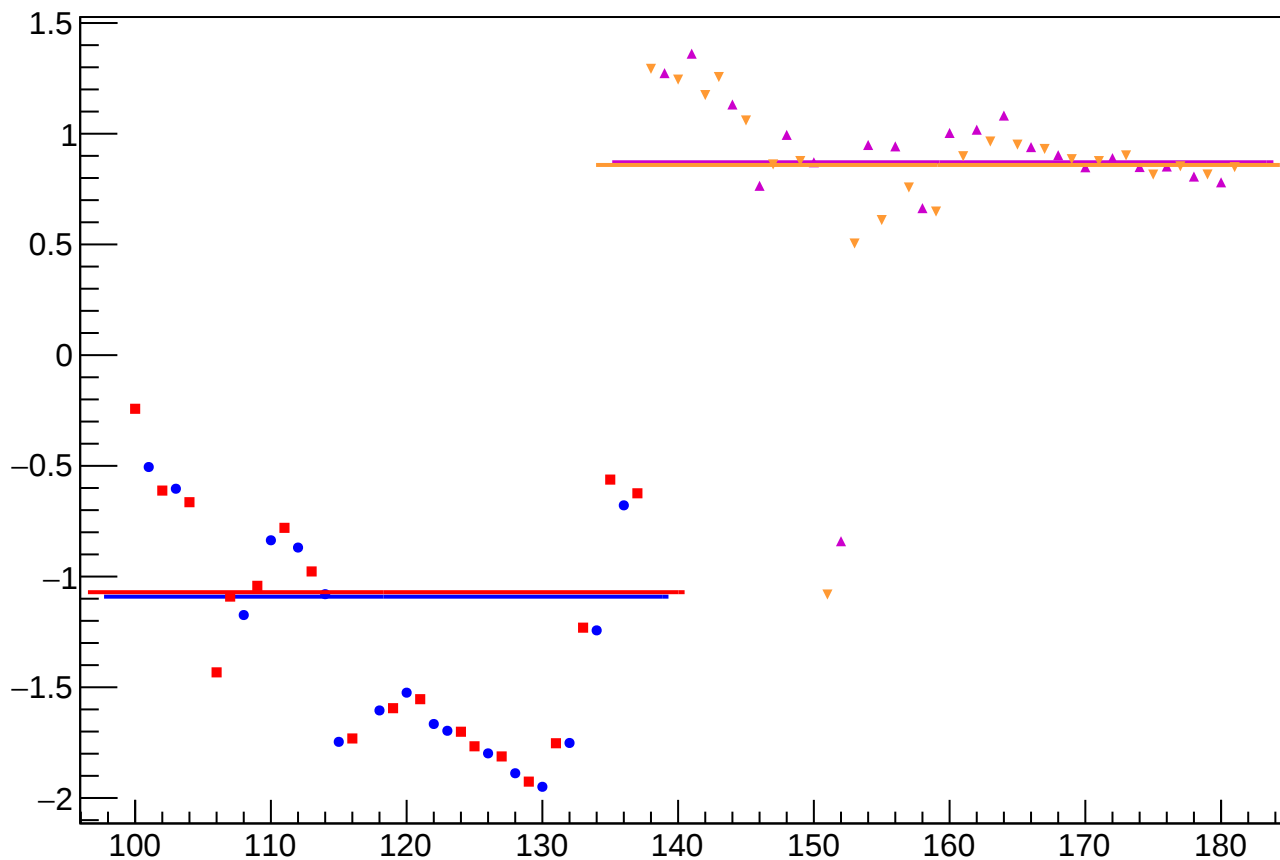
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 183683.0/35

In: 0.012 $\pm$ 0.000 χ^2 /NDF:1978884.5/37

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:1866441.4/41

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 3846173.2/79

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.091 ± 0.000 $\chi^2/\text{NDF}: 55542430282.4/16$

Left Out: 0.859 ± 0.000 $\chi^2/\text{NDF}: 125135145252.3/22$

Right Out: -1.071 ± 0.000 $\chi^2/\text{NDF}: 46725373904.4/18$

Left In: 0.871 ± 0.000 $\chi^2/\text{NDF}: 146788108726.3/20$

Left: 0.865 ± 0.000 $\chi^2/\text{NDF}: 272007345976.8/43$

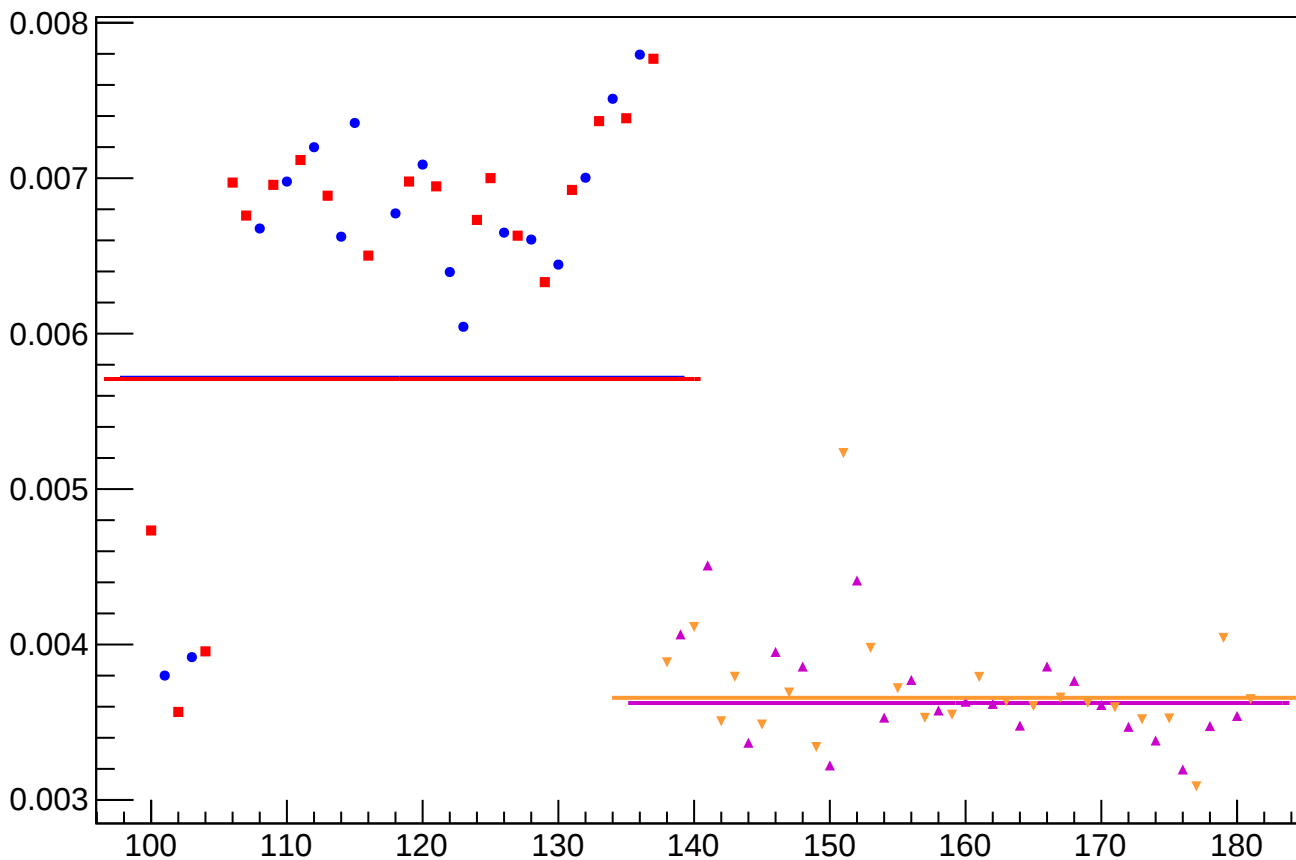
Right: -1.080 ± 0.000 $\chi^2/\text{NDF}: 102305472219.1/35$

In: 0.599 ± 0.000 $\chi^2/\text{NDF}: 802089933044.8/37$

Out: 0.593 ± 0.000 $\chi^2/\text{NDF}: 776873532720.8/41$

All: 0.596 ± 0.000 $\chi^2/\text{NDF}: 1578986011519.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 837929.9/16

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:235222.5/22

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 921337.6/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:220054.4/20

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 456554.8/43

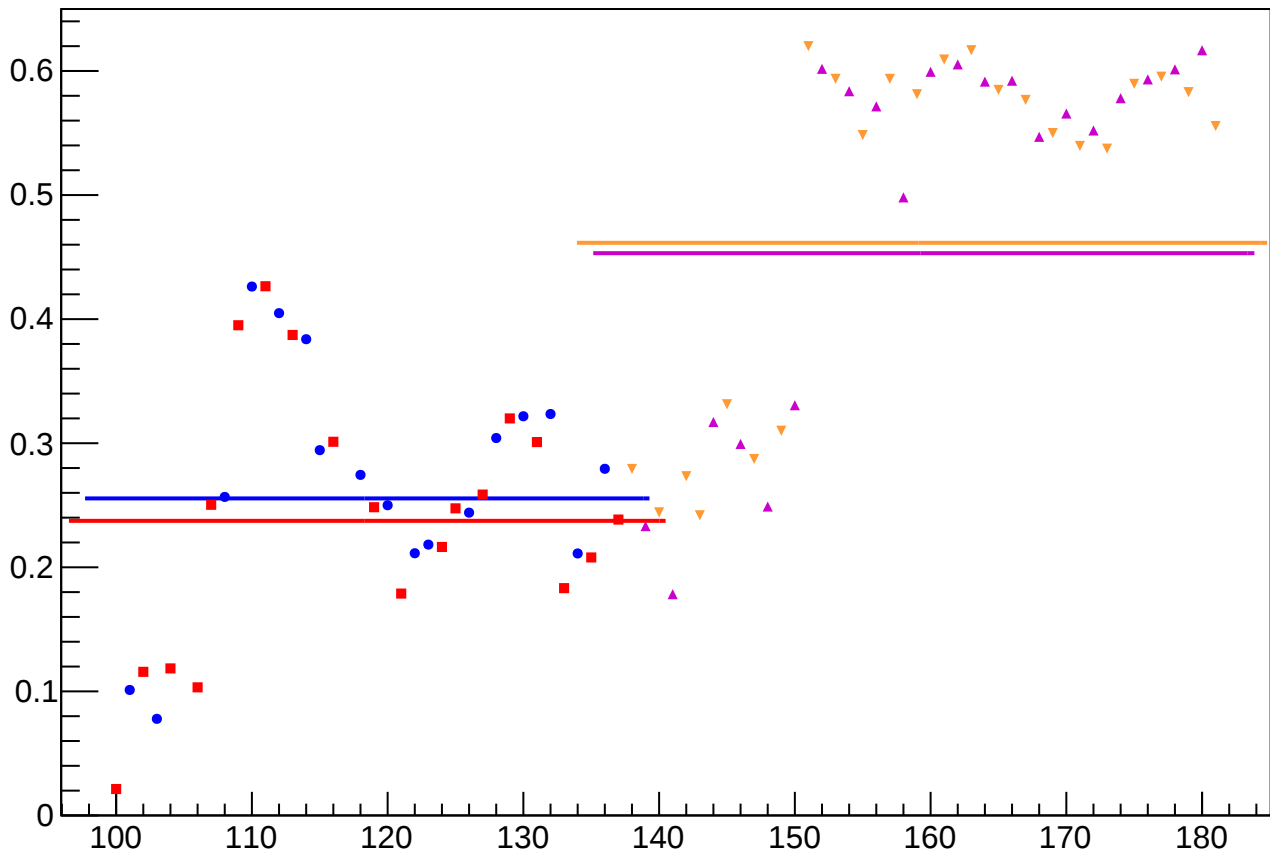
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 1759279.4/35

In: 0.004 $\pm$ 0.000 χ^2 /NDF:2422723.9/37

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:2524049.1/41

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 4947653.5/79

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.256 $\pm$ 0.000

χ^2/NDF : 21303879000.5/16

Left: 0.458 $\pm$ 0.000 χ^2/NDF : 198741520400.4/43

Right: 0.246 $\pm$ 0.000 χ^2/NDF : 47770756724.0/35

Left Out: 0.462 $\pm$ 0.000

χ^2/NDF : 97939769820.9/22

In: 0.379 $\pm$ 0.000 χ^2/NDF : 181231055523.1/37

Right Out: 0.237 $\pm$ 0.000

χ^2/NDF : 26048163947.8/18

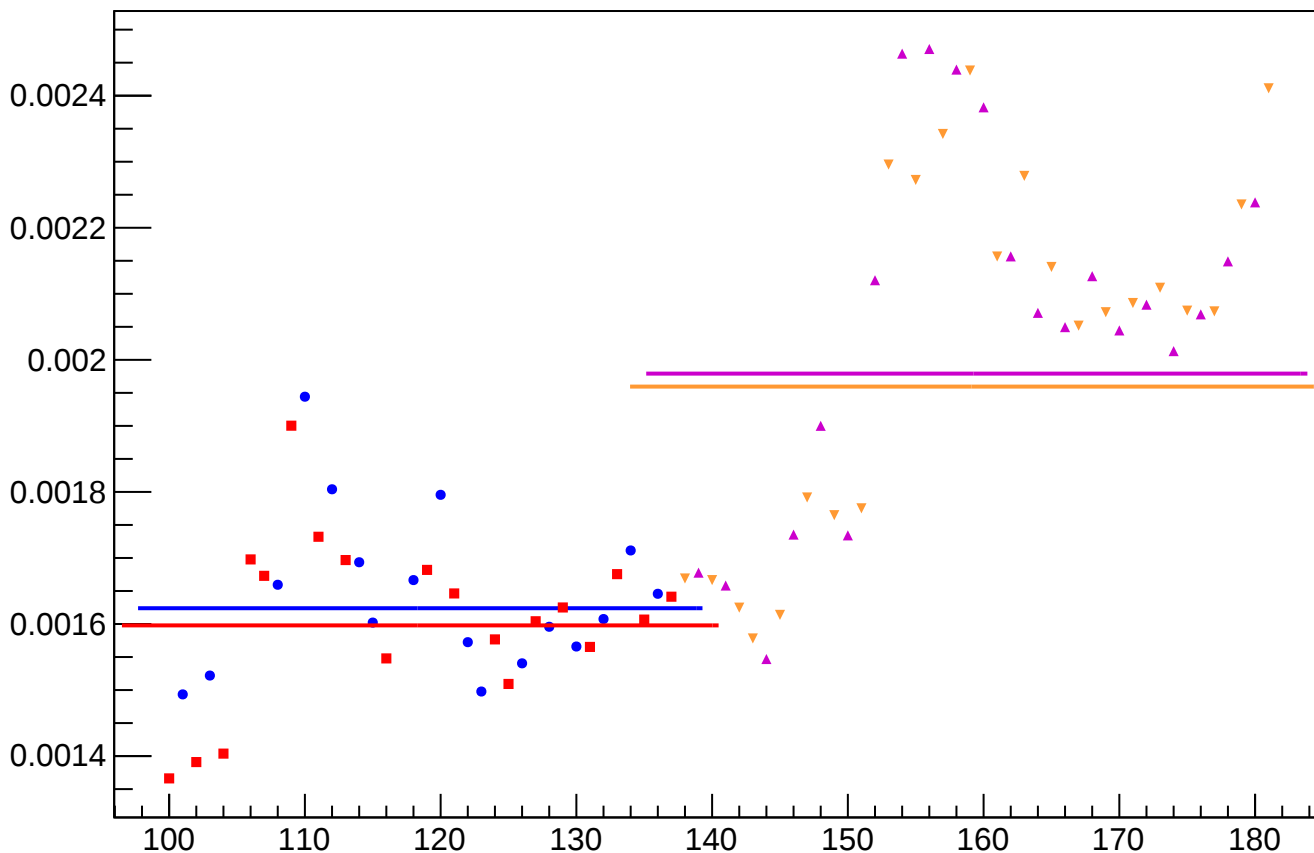
Out: 0.376 $\pm$ 0.000 χ^2/NDF : 208296413739.8/41

Left In: 0.453 $\pm$ 0.000

χ^2/NDF : 100655279157.4/20

All: 0.377 $\pm$ 0.000 χ^2/NDF : 389551064880.5

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 52349.3/16

Left Out: 0.002+/-0.000 χ^2/NDF : 655116.5/22

Right Out: 0.002+/-0.000 χ^2/NDF : 90592.9/18

Left In: 0.002+/-0.000 χ^2/NDF : 605486.4/20

Left: 0.002+/-0.000 χ^2/NDF : 1262227.8/43

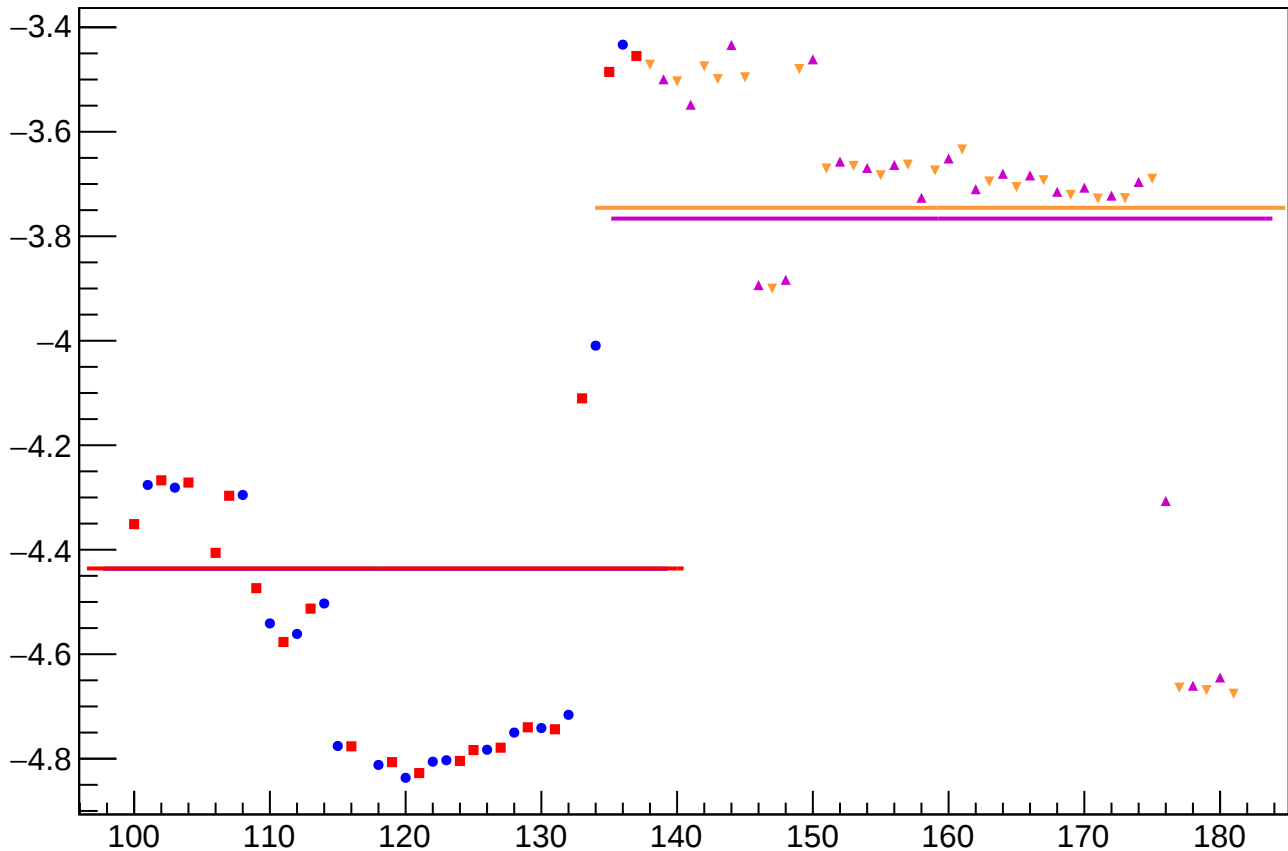
Right: 0.002+/-0.000 χ^2/NDF : 144677.8/35

In: 0.002+/-0.000 χ^2/NDF : 1040795.0/37

Out: 0.002+/-0.000 χ^2/NDF : 1184879.0/41

All: 0.002+/-0.000 χ^2/NDF : 2229483.4/79

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.436+/-0.000 χ^2/NDF : 392479534987.2/16

Left Out: -3.746+/-0.000 χ^2/NDF : 432929927123.1/22

Right Out: -4.436+/-0.000 χ^2/NDF : 324942318404.0/18

Left In: -3.766+/-0.000 χ^2/NDF : 350923066244.3/20

Left: -3.755+/-0.000 χ^2/NDF : 784601919812.8/43

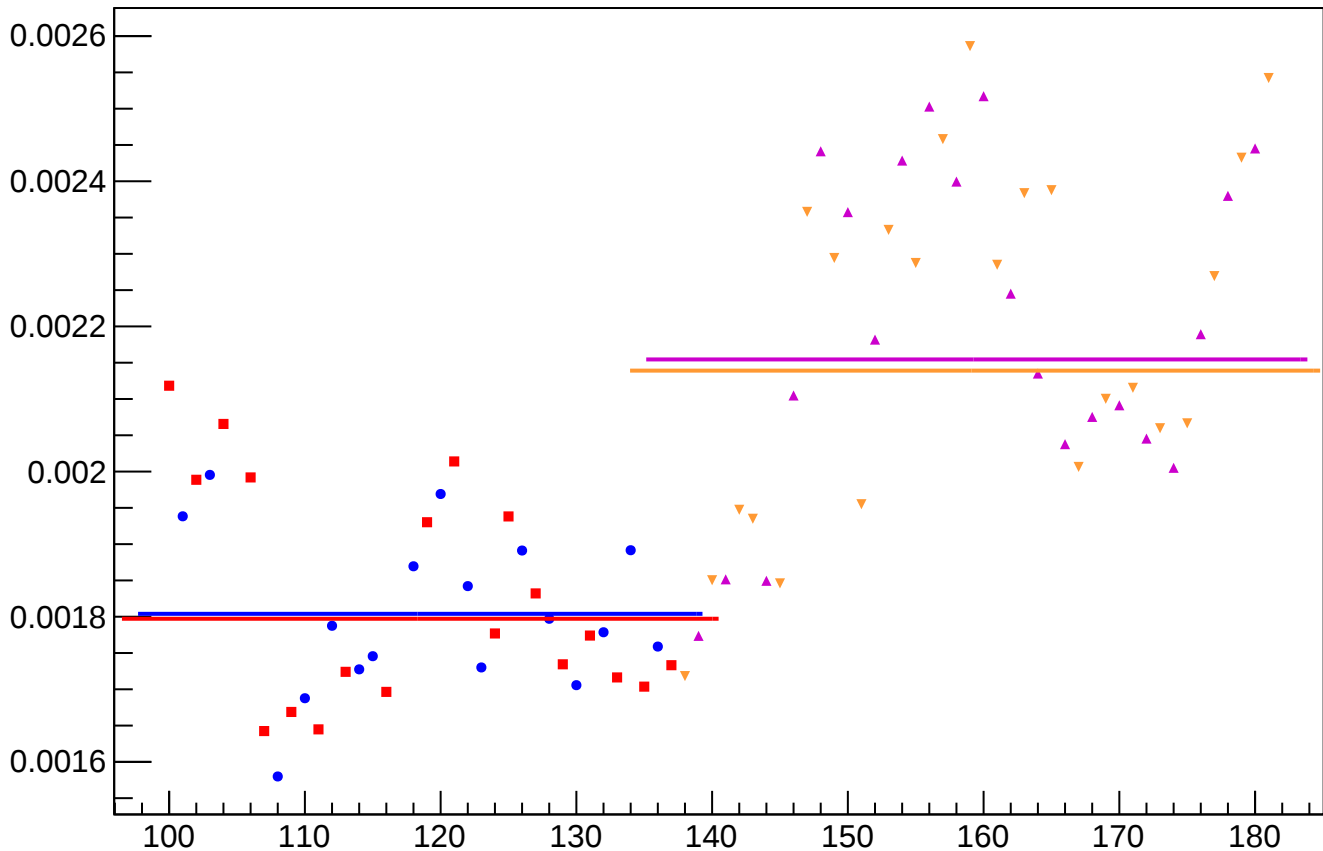
Right: -4.436+/-0.000 χ^2/NDF : 717422111284.2/35

In: -4.013+/-0.000 χ^2/NDF : 1309307815328.2/37

Out: -3.998+/-0.000 χ^2/NDF : 1399542447312.7/41

All: -4.005+/-0.000 χ^2/NDF : 2709474766544

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 48060.2/16

Left Out: 0.002+/-0.000 χ^2/NDF :420279.8/22

Right Out: 0.002+/-0.000 χ^2/NDF : 80681.9/18

Left In: 0.002+/-0.000 χ^2/NDF :348431.0/20

Left: 0.002+/-0.000 χ^2/NDF : 769553.2/43

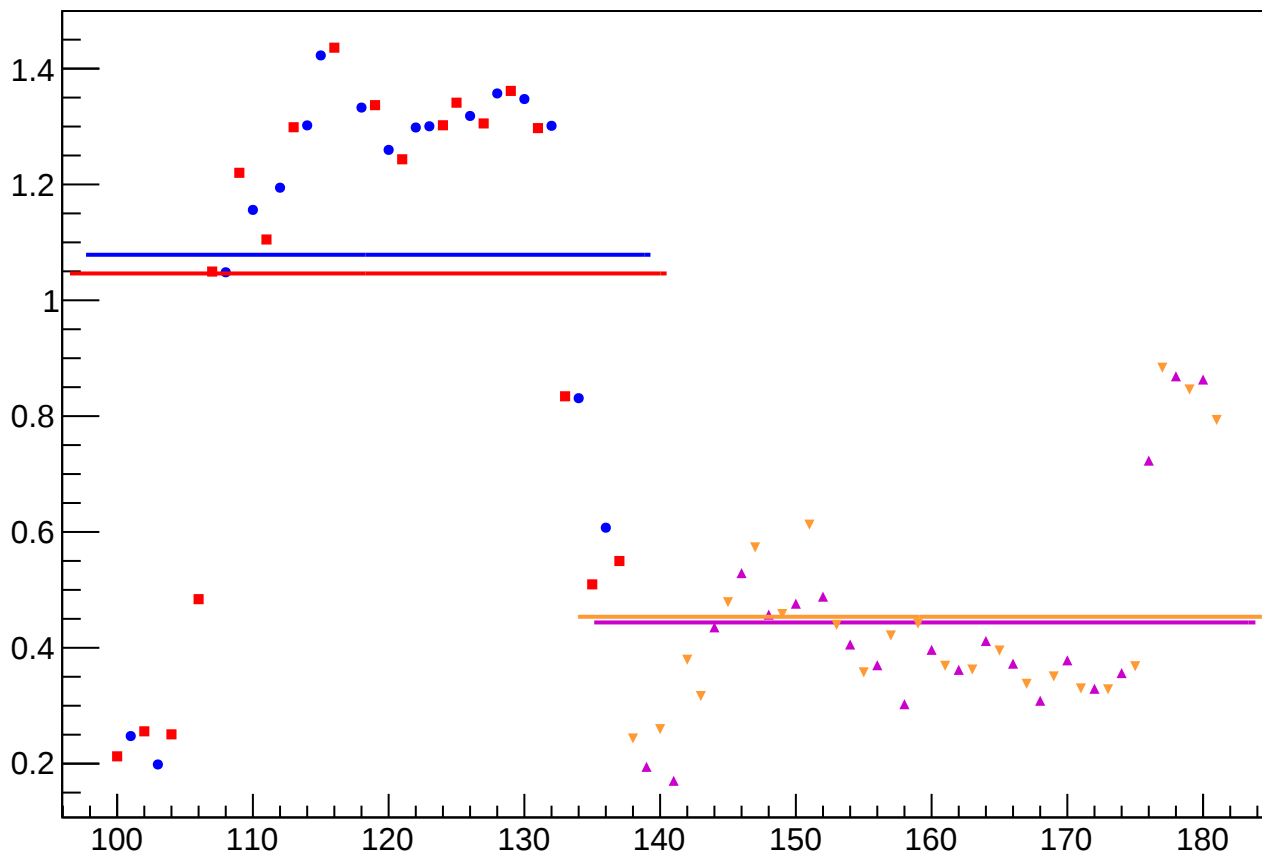
Right: 0.002+/-0.000 χ^2/NDF : 128836.7/35

In: 0.002+/-0.000 χ^2/NDF :706027.0/37

Out: 0.002+/-0.000 χ^2/NDF :815793.8/41

All: 0.002+/-0.000 χ^2/NDF : 1522544.5/79

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 1.079 $\pm$ 0.000 χ^2/NDF : 17504335724.9/16

Left Out: 0.454 $\pm$ 0.000 χ^2/NDF : 6356184124.6/22

Right Out: 1.046 $\pm$ 0.000 χ^2/NDF : 19655971884.7/18

Left In: 0.444 $\pm$ 0.000 χ^2/NDF : 6329070641.0/20

Left: 0.449 $\pm$ 0.000 χ^2/NDF : 12694469988.7/43

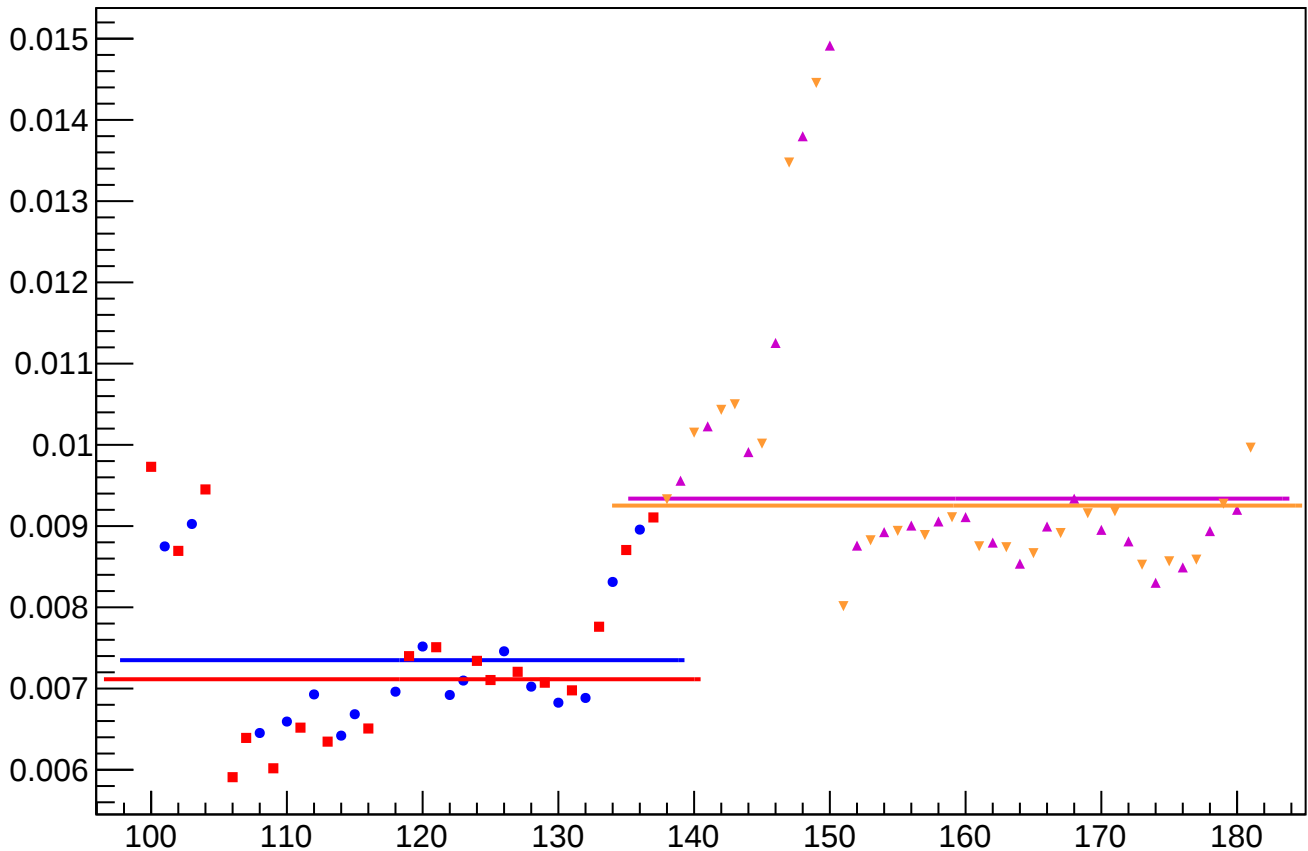
Right: 1.062 $\pm$ 0.000 χ^2/NDF : 37227658553.8/35

In: 0.698 $\pm$ 0.000 χ^2/NDF : 53321435089.7/37

Out: 0.696 $\pm$ 0.000 χ^2/NDF : 54577303310.0/41

All: 0.697 $\pm$ 0.000 χ^2/NDF : 107899381461.8

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 180865.9/16

Left Out: 0.009+/-0.000 χ^2/NDF : 514139.6/22

Right Out: 0.007+/-0.000 χ^2/NDF : 259361.2/18

Left In: 0.009+/-0.000 χ^2/NDF : 555910.1/20

Left: 0.009+/-0.000 χ^2/NDF : 1071448.8/43

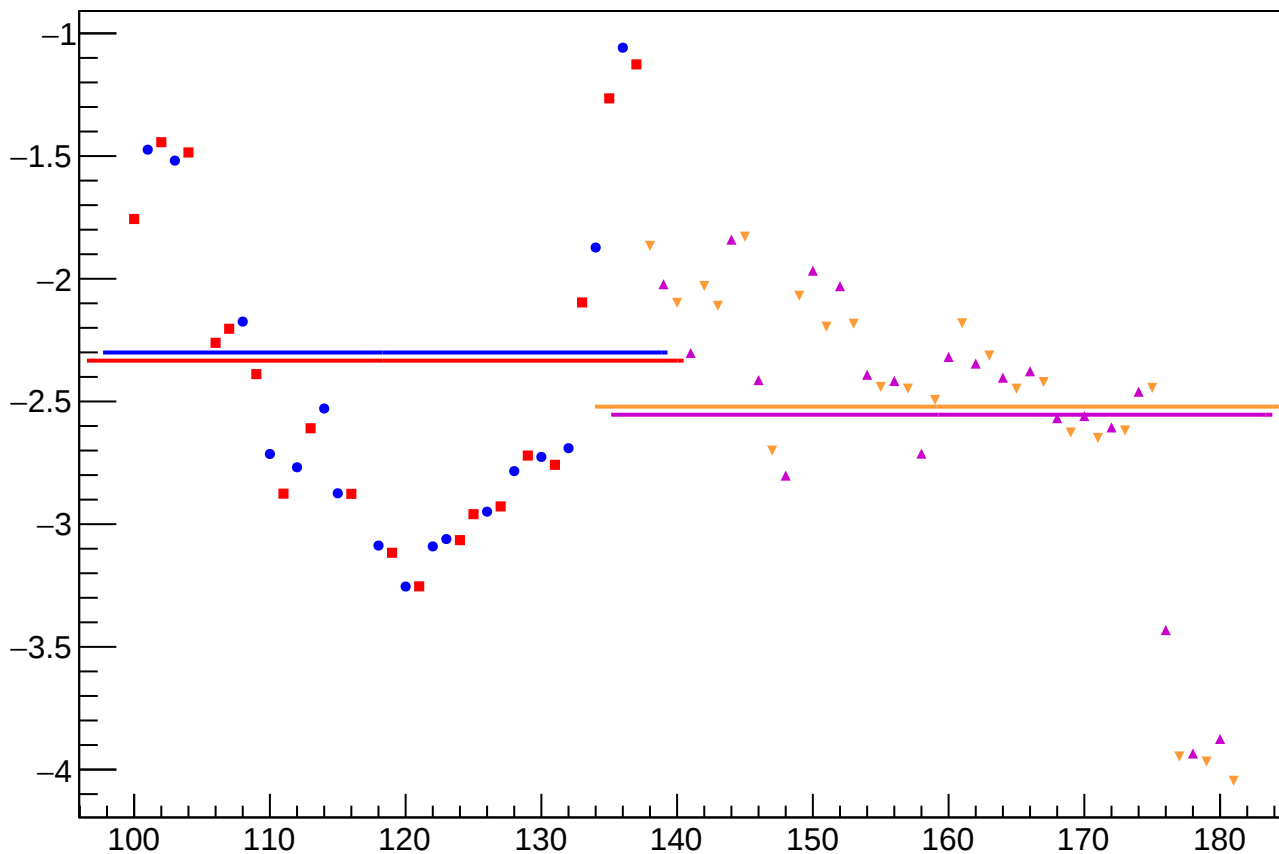
Right: 0.007+/-0.000 χ^2/NDF : 447348.1/35

In: 0.009+/-0.000 χ^2/NDF : 1315537.3/37

Out: 0.008+/-0.000 χ^2/NDF : 1516729.4/41

All: 0.008+/-0.000 χ^2/NDF : 2840801.5/79

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.300+/-0.000 χ^2/NDF : 73601400403.2/16

Left Out: -2.521+/-0.000 χ^2/NDF : 79905572730.3/22

Right Out: -2.334+/-0.000 χ^2/NDF : 64343197509.4/18

Left In: -2.554+/-0.000 χ^2/NDF : 60515363071.9/20

Left: -2.537+/-0.000 χ^2/NDF : 140541475535.3/43

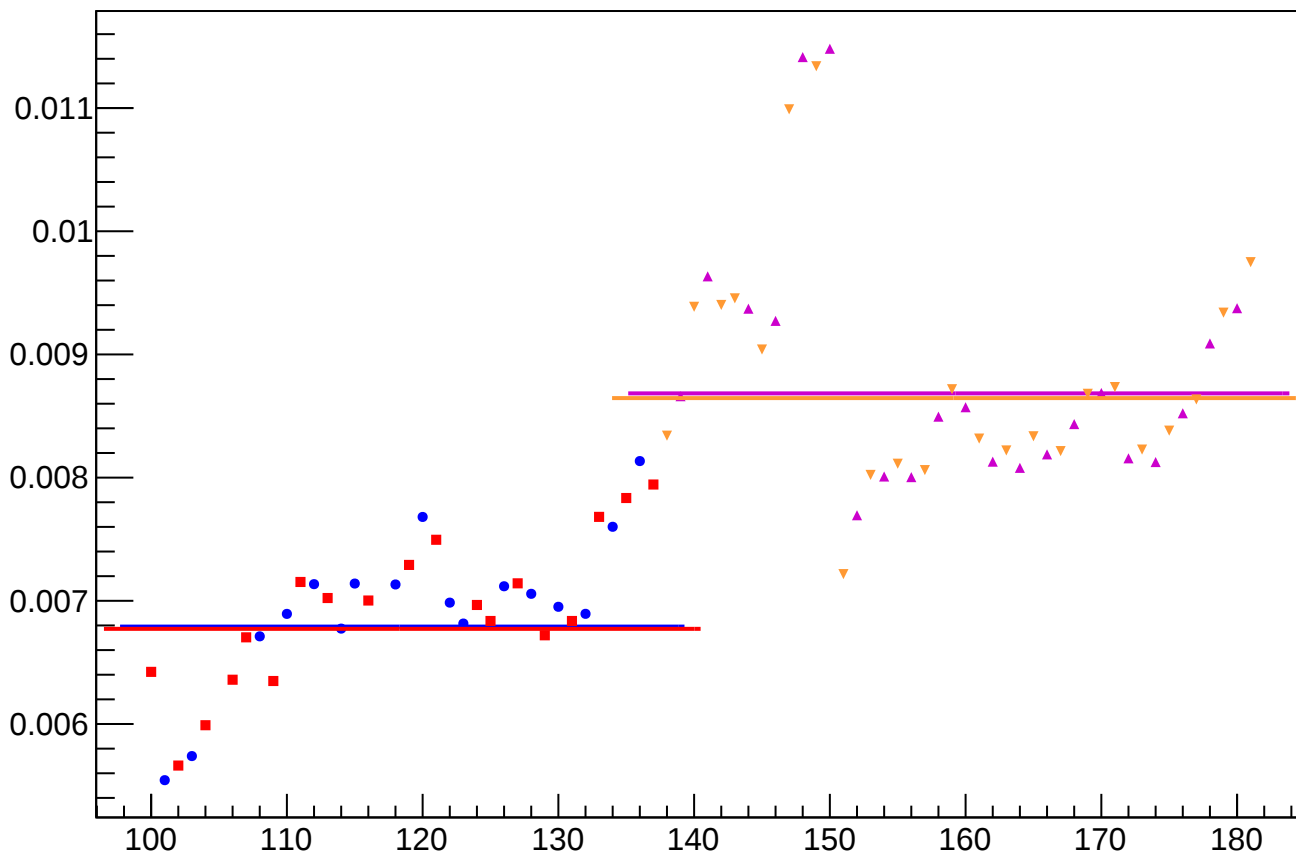
Right: -2.318+/-0.000 χ^2/NDF : 138026475465.9/35

In: -2.452+/-0.000 χ^2/NDF : 139633567383.3/37

Out: -2.446+/-0.000 χ^2/NDF : 147475533335.5/41

All: -2.449+/-0.000 χ^2/NDF : 287116042948.2

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 165798.3/16

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:325857.0/22

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 123254.7/18

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:323132.2/20

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 649313.1/43

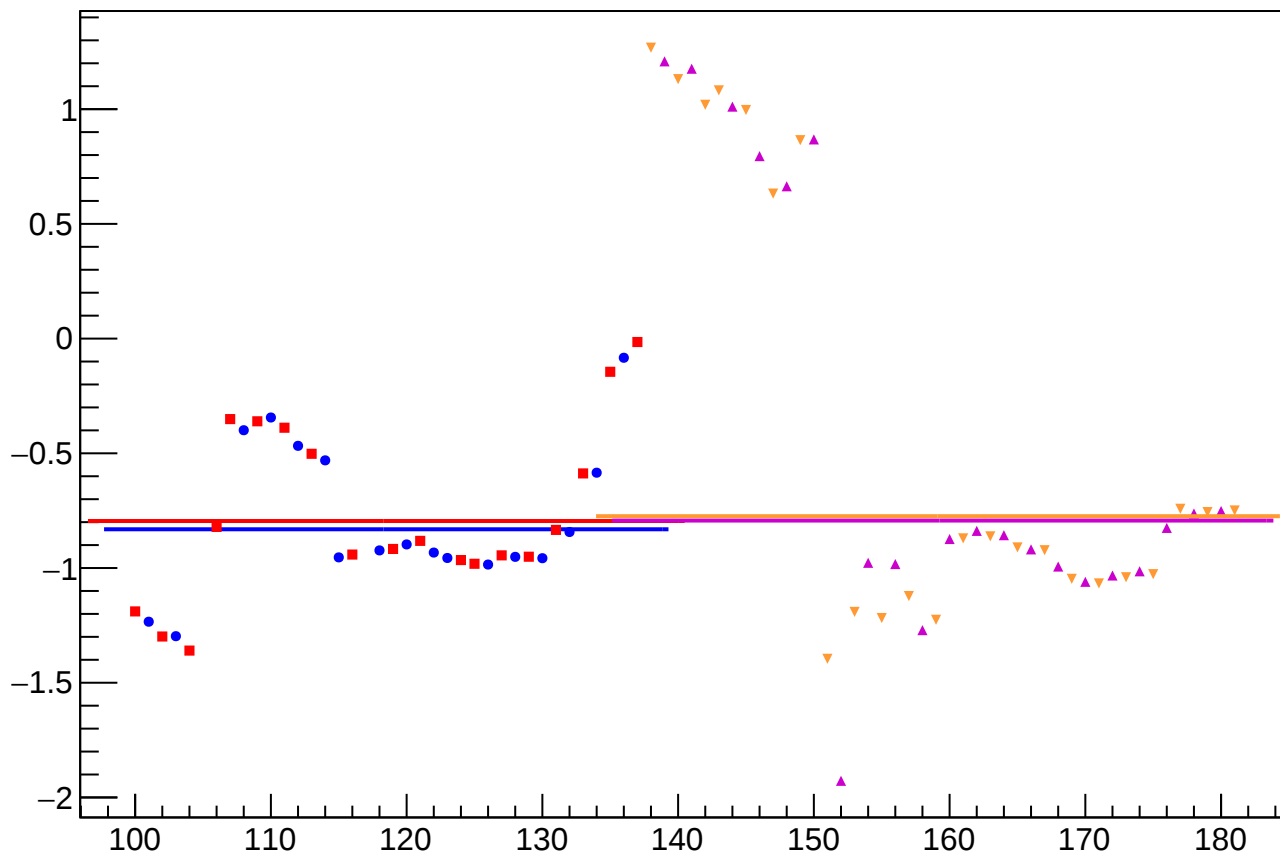
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 289102.2/35

In: 0.008 $\pm$ 0.000 χ^2 /NDF:1104181.3/37

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:1094595.3/41

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 2199057.9/79

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ²/NDF: 6684927415.2/16

Left: -0.783+/-0.000

χ²/NDF: 241961454219.6/43

Left Out: -0.774+/-0.000

χ²/NDF: 118494605574.5/22

Right: -0.813+/-0.000

χ²/NDF: 14539681637.1/35

Right Out: -0.795+/-0.000

χ²/NDF: 7817248130.7/18

In: -0.800+/-0.000

χ²/NDF: 130171262093.8/37

Out: -0.778+/-0.000

χ²/NDF: 126333319456.8/41

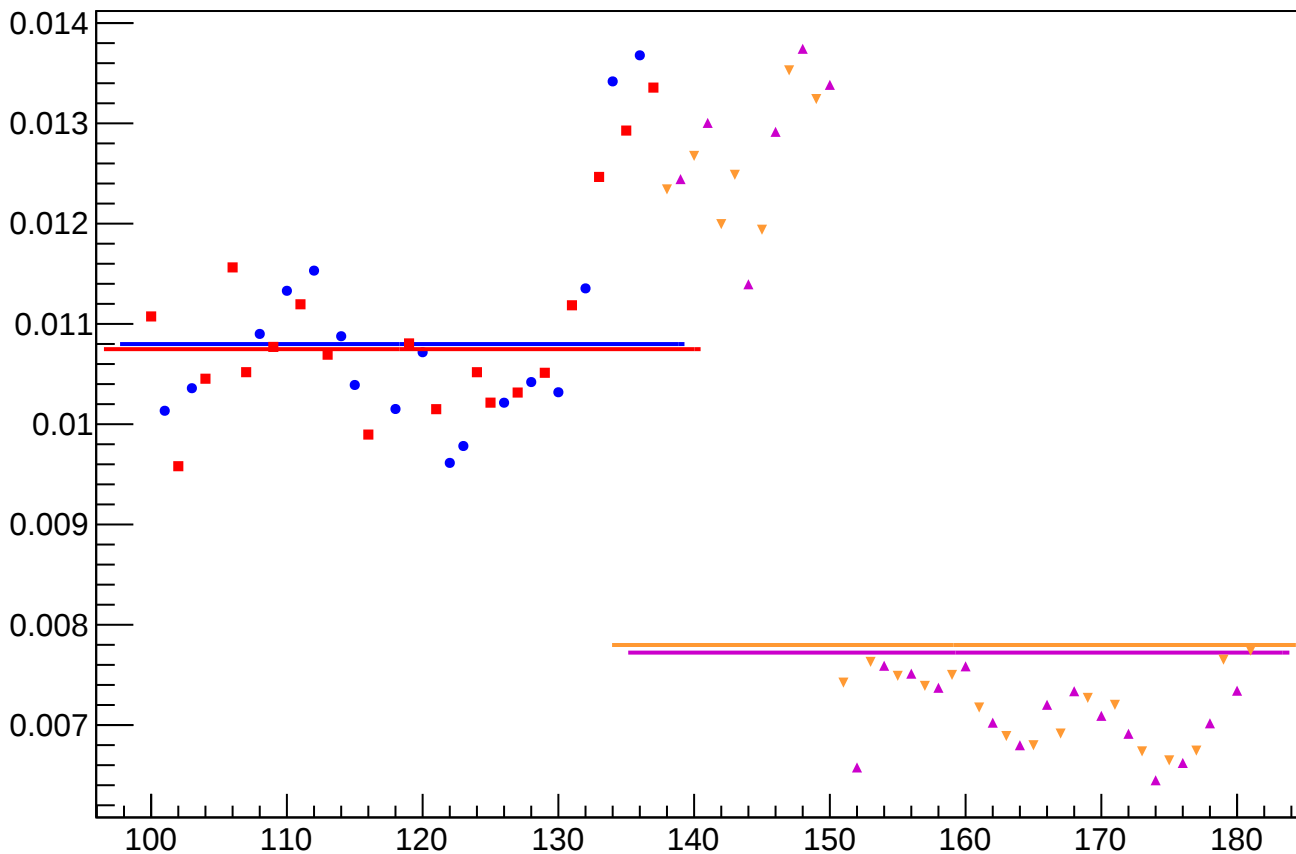
Left In: -0.793+/-0.000

χ²/NDF: 123419832499.2/20

All: -0.789+/-0.000

χ²/NDF: 256581968299.5

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 124812.3/16

Left Out: 0.008+/-0.000 χ^2/NDF :1676322.6/22

Right Out: 0.011+/-0.000 χ^2/NDF : 89612.1/18

Left In: 0.008+/-0.000 χ^2/NDF :1745192.3/20

Left: 0.008+/-0.000 χ^2/NDF : 3423015.2/43

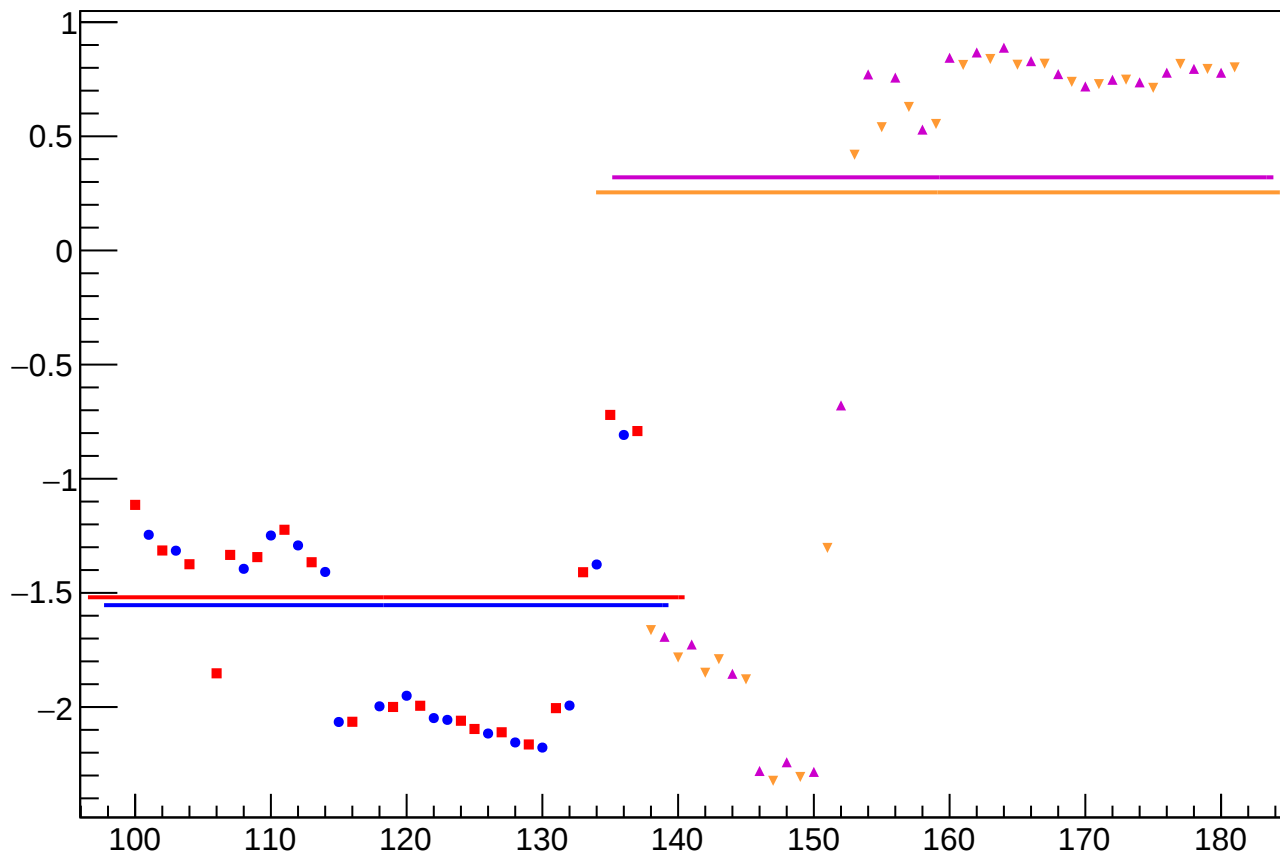
Right: 0.011+/-0.000 χ^2/NDF : 214573.0/35

In: 0.008+/-0.000 χ^2/NDF :2740648.8/37

Out: 0.008+/-0.000 χ^2/NDF :2612714.7/41

All: 0.008+/-0.000 χ^2/NDF : 5354400.6/79

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.554+/-0.000 χ^2/NDF : 153751208532.9/16

Left Out: 0.254+/-0.000 χ^2/NDF : 2500480998252.1/22

Right Out: -1.519+/-0.000 χ^2/NDF : 138061021403.9/18

Left In: 0.320+/-0.000 χ^2/NDF : 2244567688112.1/20

Left: 0.286+/-0.000 χ^2/NDF : 4750272434481.7/43

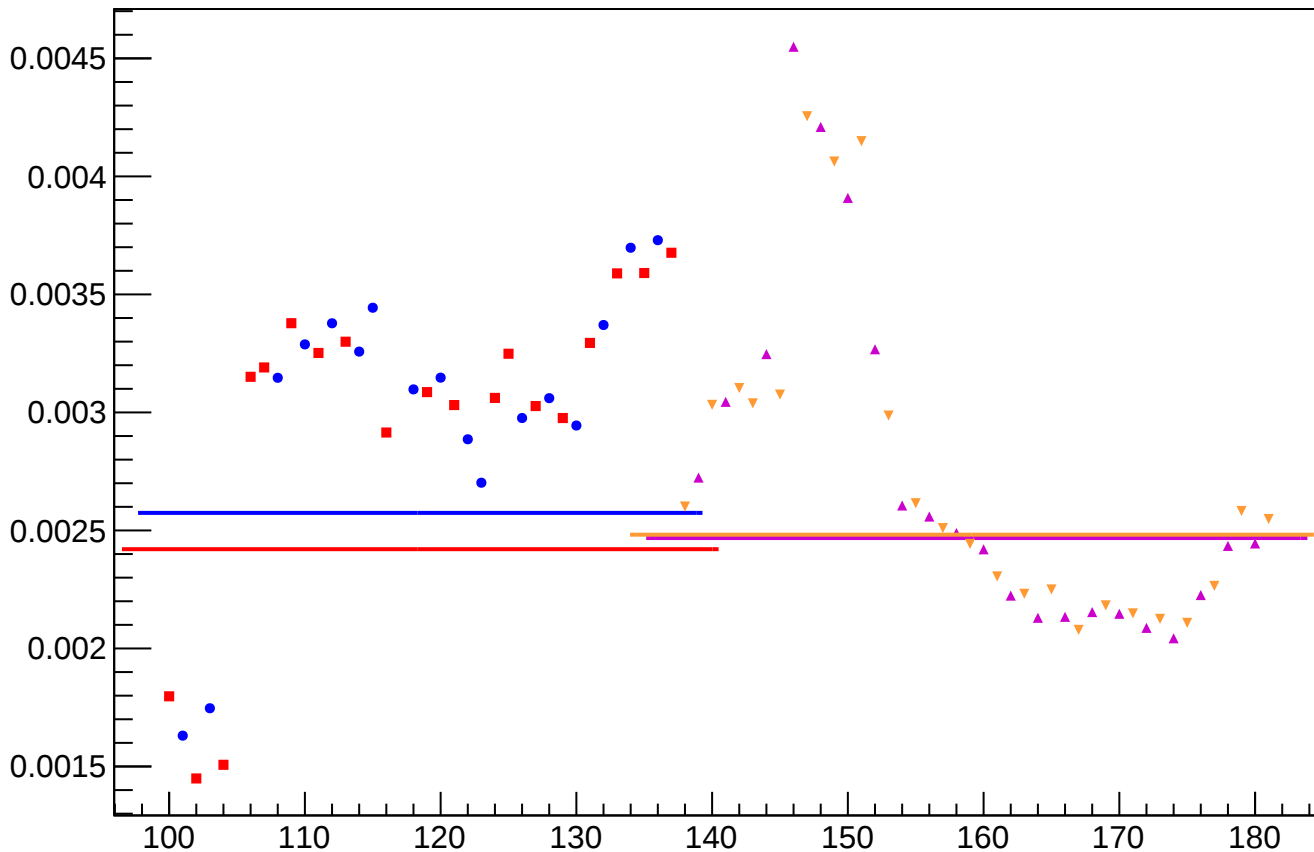
Right: -1.535+/-0.000 χ^2/NDF : 292351096405.8/35

In: -0.180+/-0.000 χ^2/NDF : 4586228078284.0/37

Out: -0.242+/-0.000 χ^2/NDF : 4824765589872.0/41

All: -0.212+/-0.000 χ^2/NDF : 9417244259706

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 1013543.2/16

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1060917.1/22

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 1484766.5/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1131943.2/20

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2193351.9/43

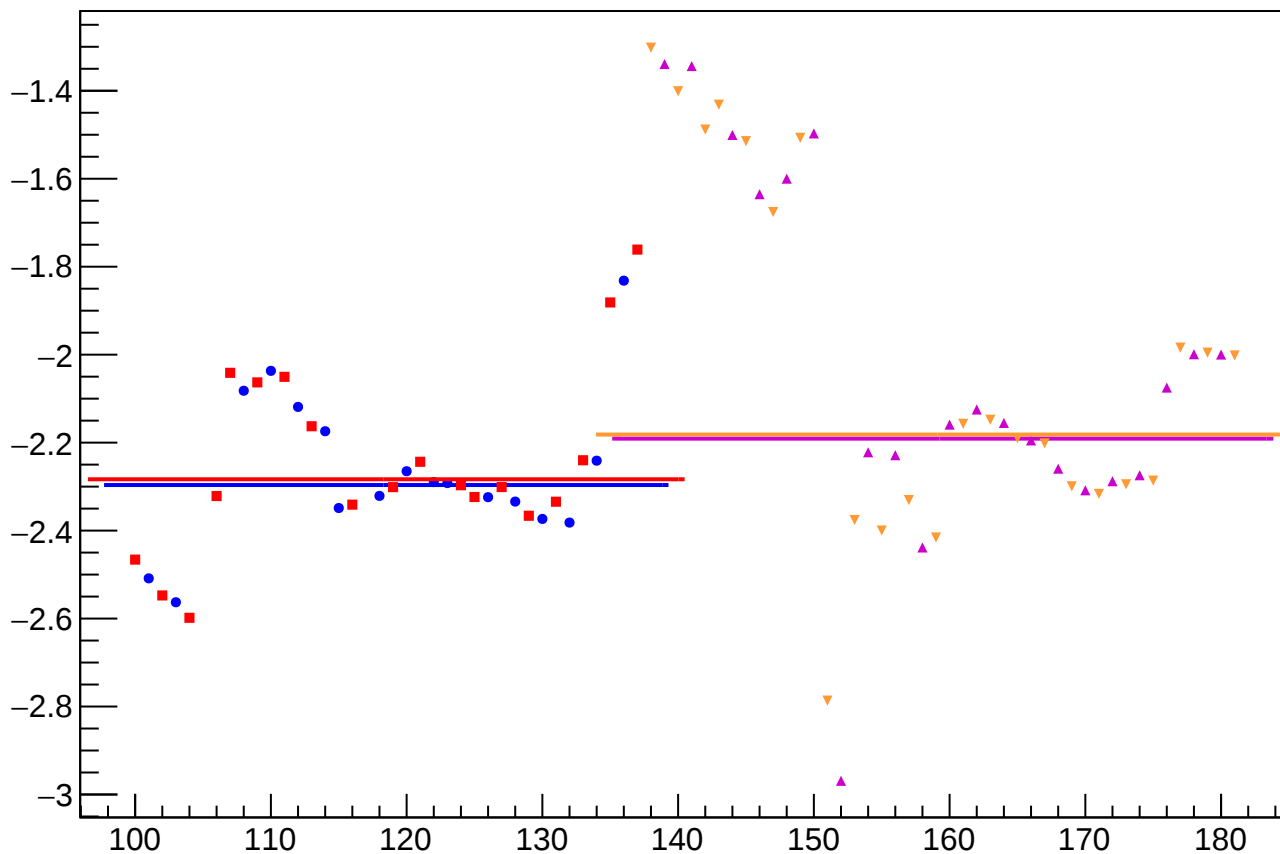
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 2519697.5/35

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2159659.3/37

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:2550936.8/41

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 4713856.4/79

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.296+/-0.000

χ^2/NDF : 5781445779.2/16

Left: -2.186+/-0.000

χ^2/NDF : 129763874091.8/43

Left Out: -2.182+/-0.000

χ^2/NDF : 57935078315.1/22

Right: -2.290+/-0.000

χ^2/NDF : 12342526597.5/35

Right Out: -2.283+/-0.000

χ^2/NDF : 6547805693.1/18

In: -2.210+/-0.000

χ^2/NDF : 78953717001.3/37

Out: -2.200+/-0.000

χ^2/NDF : 65836191511.0/41

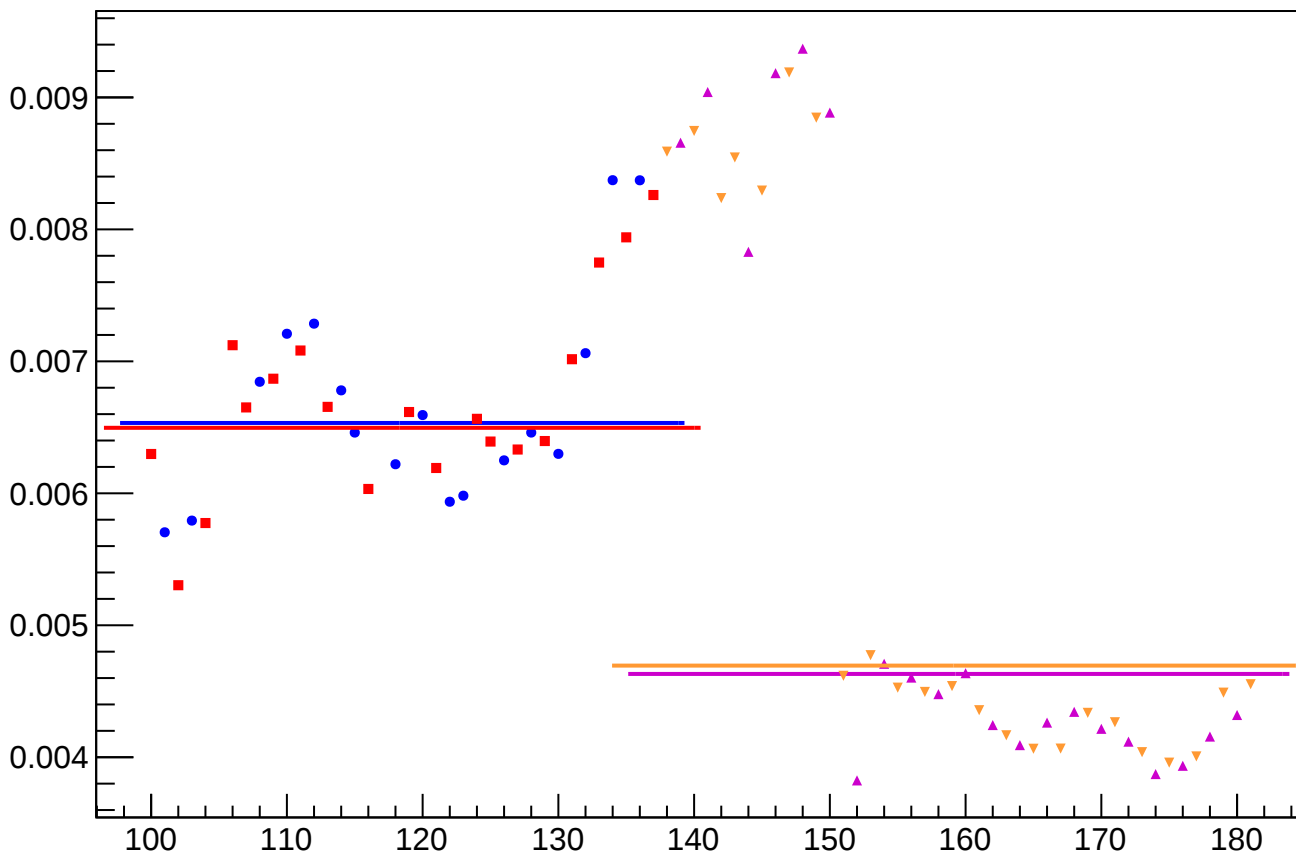
Left In: -2.191+/-0.000

χ^2/NDF : 71798480456.3/20

All: -2.205+/-0.000

χ^2/NDF : 144830768091.4

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 175590.1/16

Left Out: 0.005+/-0.000 χ^2/NDF :2276114.7/22

Right Out: 0.006+/-0.000 χ^2/NDF : 163206.3/18

Left In: 0.005+/-0.000 χ^2/NDF :2363730.0/20

Left: 0.005+/-0.000 χ^2/NDF : 4642621.6/43

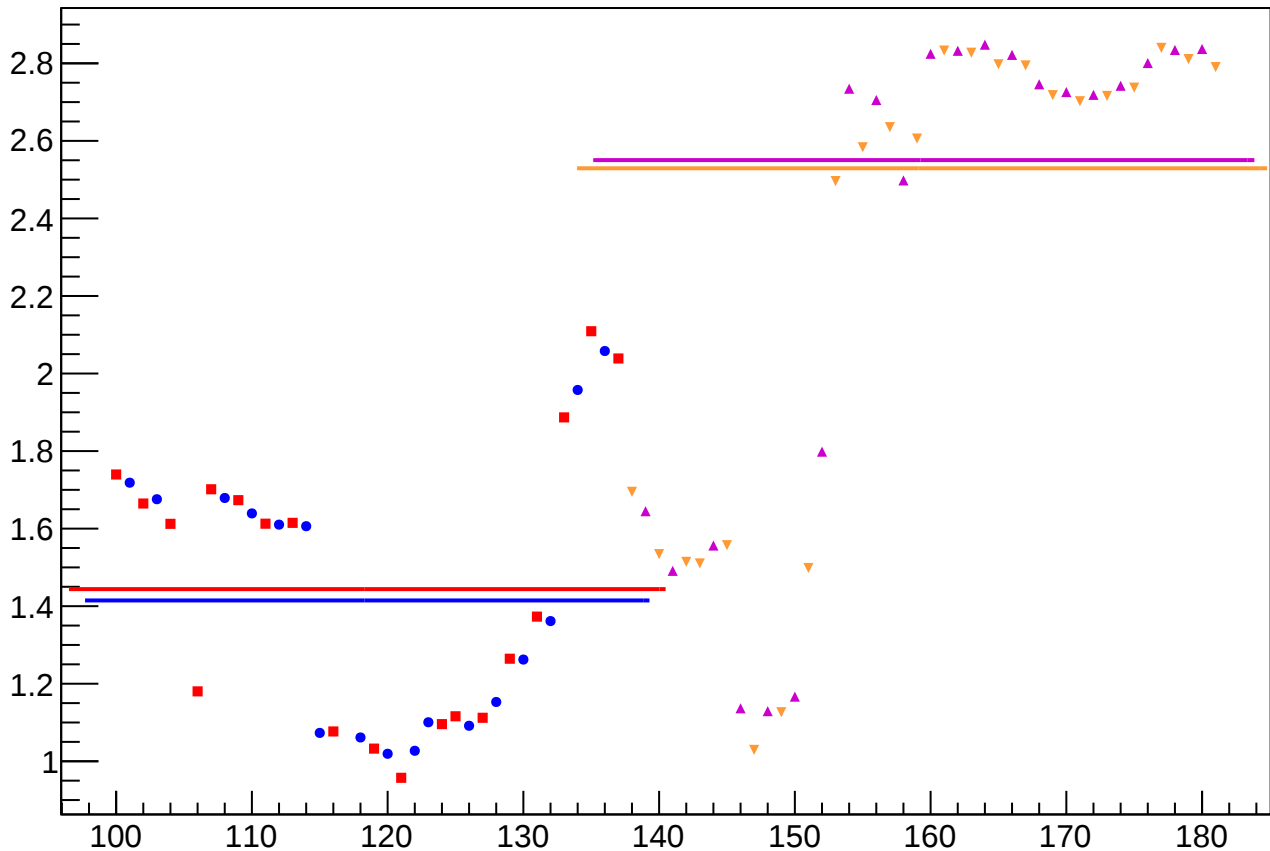
Right: 0.007+/-0.000 χ^2/NDF : 339006.1/35

In: 0.005+/-0.000 χ^2/NDF :3433000.3/37

Out: 0.005+/-0.000 χ^2/NDF :3288705.4/41

All: 0.005+/-0.000 χ^2/NDF : 6723736.4/79

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.415+/-0.000 χ^2/NDF : 171733730631.9/16

Left Out: 2.529+/-0.000 χ^2/NDF : 261899567314.1/22

Right Out: 1.444+/-0.000 χ^2/NDF : 172869416198.6/18

Left In: 2.550+/-0.000 χ^2/NDF : 256111193346.8/20

Left: 2.540+/-0.000 χ^2/NDF : 518277279212.1/43

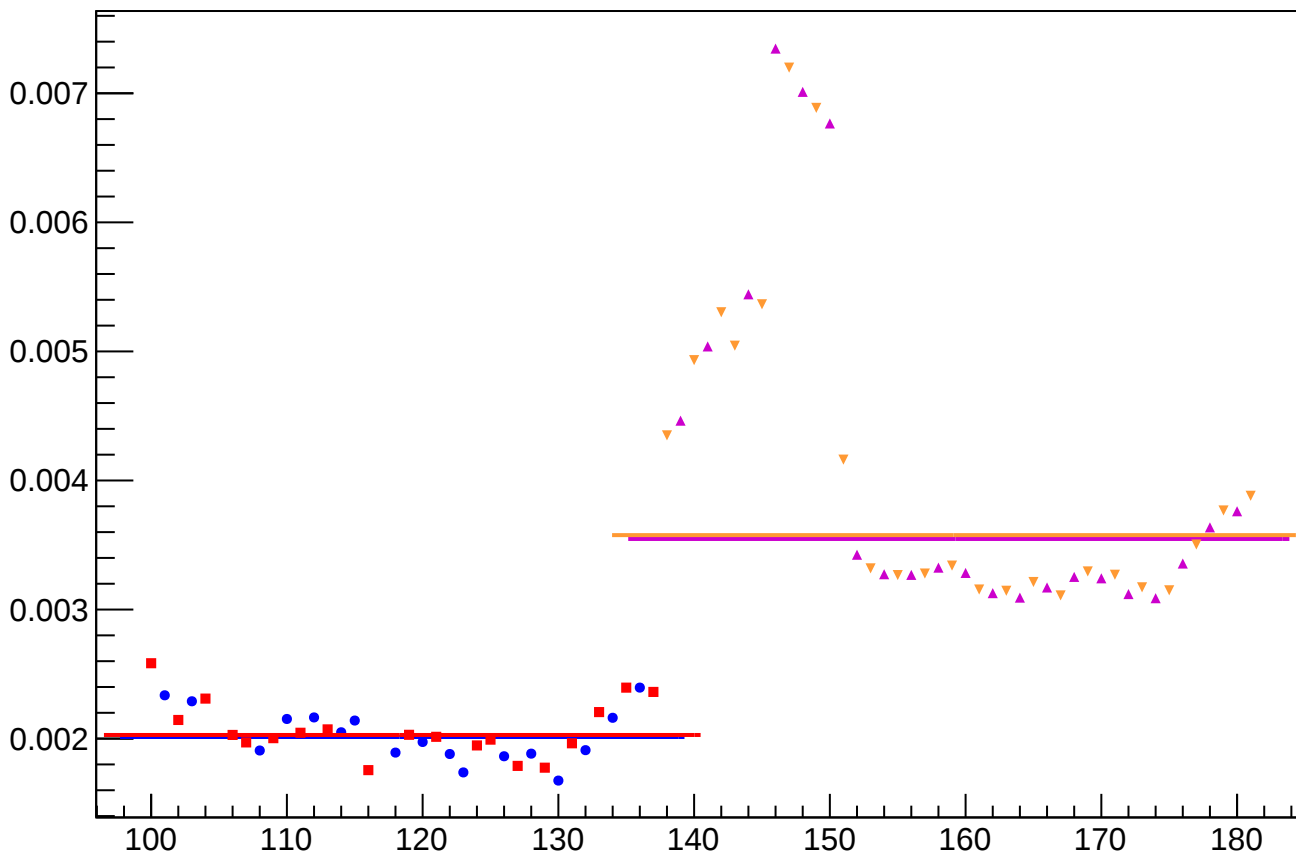
Right: 1.430+/-0.000 χ^2/NDF : 345262431703.8/35

In: 1.907+/-0.000 χ^2/NDF : 1275851238539.6/37

Out: 1.921+/-0.000 χ^2/NDF : 1247898427763.4/41

All: 1.914+/-0.000 χ^2/NDF : 2524004540304.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 149372.5/16

Left Out: 0.004+/-0.000 χ^2/NDF :1365757.5/22

Right Out: 0.002+/-0.000 χ^2/NDF : 102976.0/18

Left In: 0.004+/-0.000 χ^2/NDF :1542958.0/20

Left: 0.004+/-0.000 χ^2/NDF : 2909775.3/43

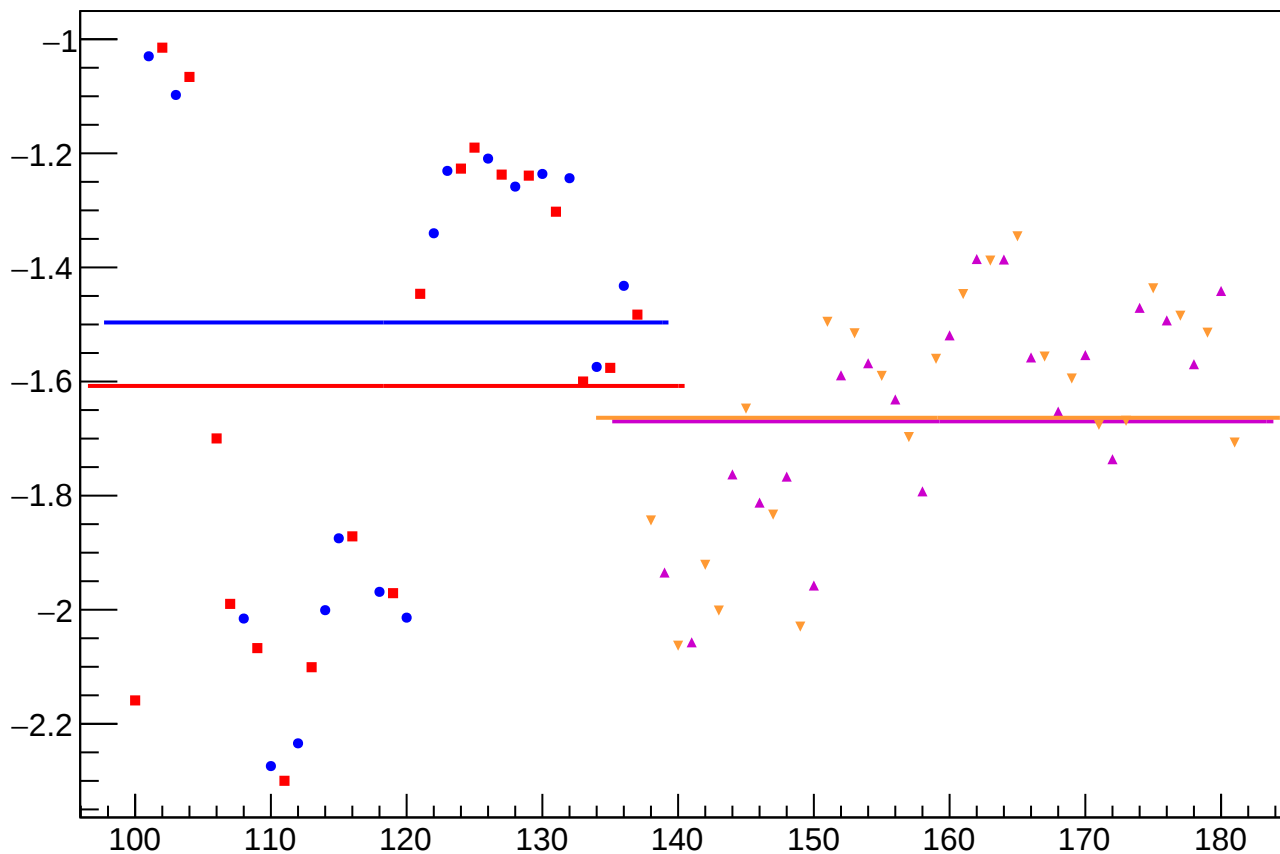
Right: 0.002+/-0.000 χ^2/NDF : 252720.4/35

In: 0.003+/-0.000 χ^2/NDF :4787483.6/37

Out: 0.003+/-0.000 χ^2/NDF :4779042.2/41

All: 0.003+/-0.000 χ^2/NDF : 9569090.8/79

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2 /NDF: 22480434073.3/16

Left Out: -1.664+/-0.000 χ^2 /NDF: 17902719567.0/22

Right Out: -1.608+/-0.000 χ^2 /NDF: 27825836681.8/18

Left In: -1.670+/-0.000 χ^2 /NDF: 14128673849.0/20

Left: -1.667+/-0.000 χ^2 /NDF: 32039345030.0/43

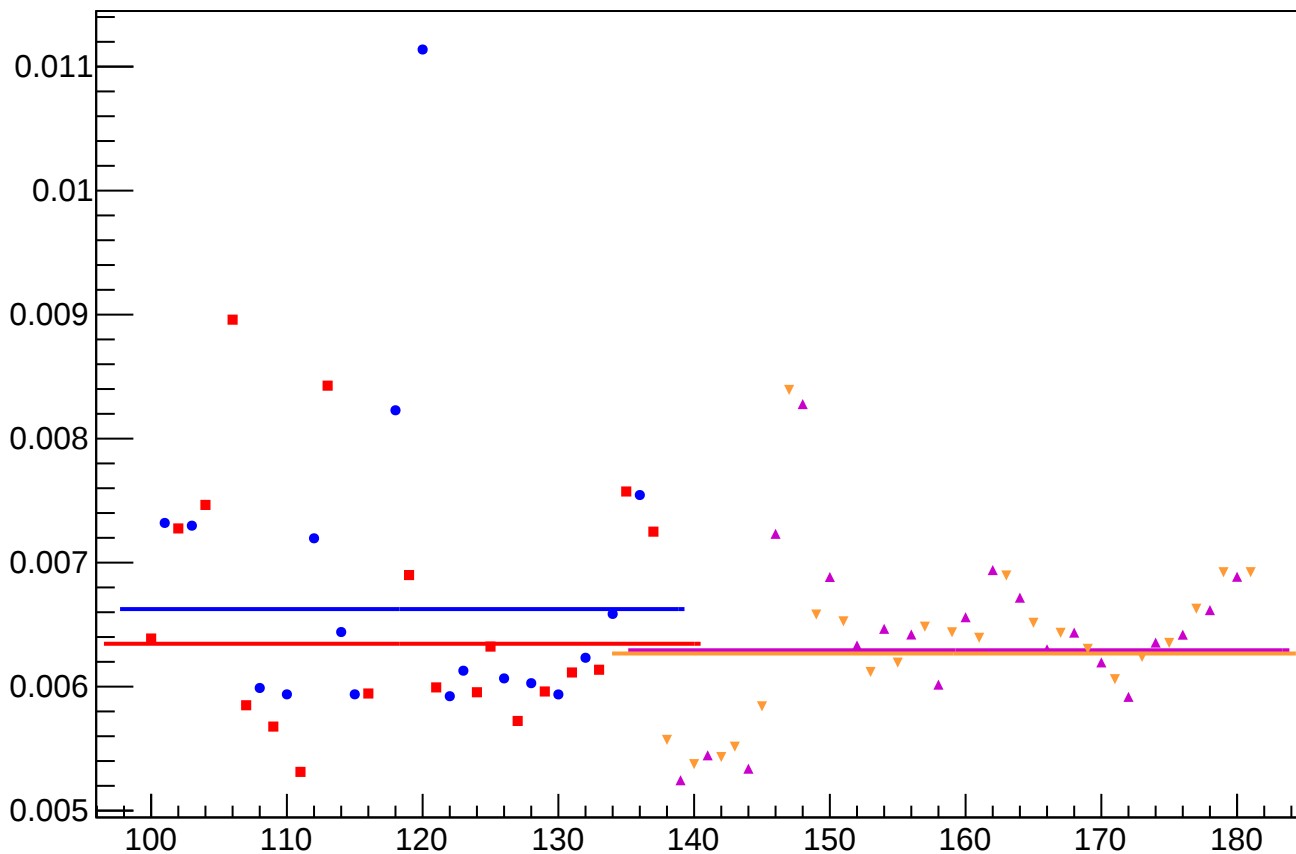
Right: -1.557+/-0.000 χ^2 /NDF: 51232685741.2/35

In: -1.624+/-0.000 χ^2 /NDF: 39673122241.9/37

Out: -1.648+/-0.000 χ^2 /NDF: 46094720663.7/41

All: -1.637+/-0.000 χ^2 /NDF: 85921573017.9/100

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 231716.4/16

Left Out: 0.006+/-0.000 χ^2/NDF :265031.7/22

Right Out: 0.006+/-0.000 χ^2/NDF : 228829.0/18

Left In: 0.006+/-0.000 χ^2/NDF :312102.4/20

Left: 0.006+/-0.000 χ^2/NDF : 577405.1/43

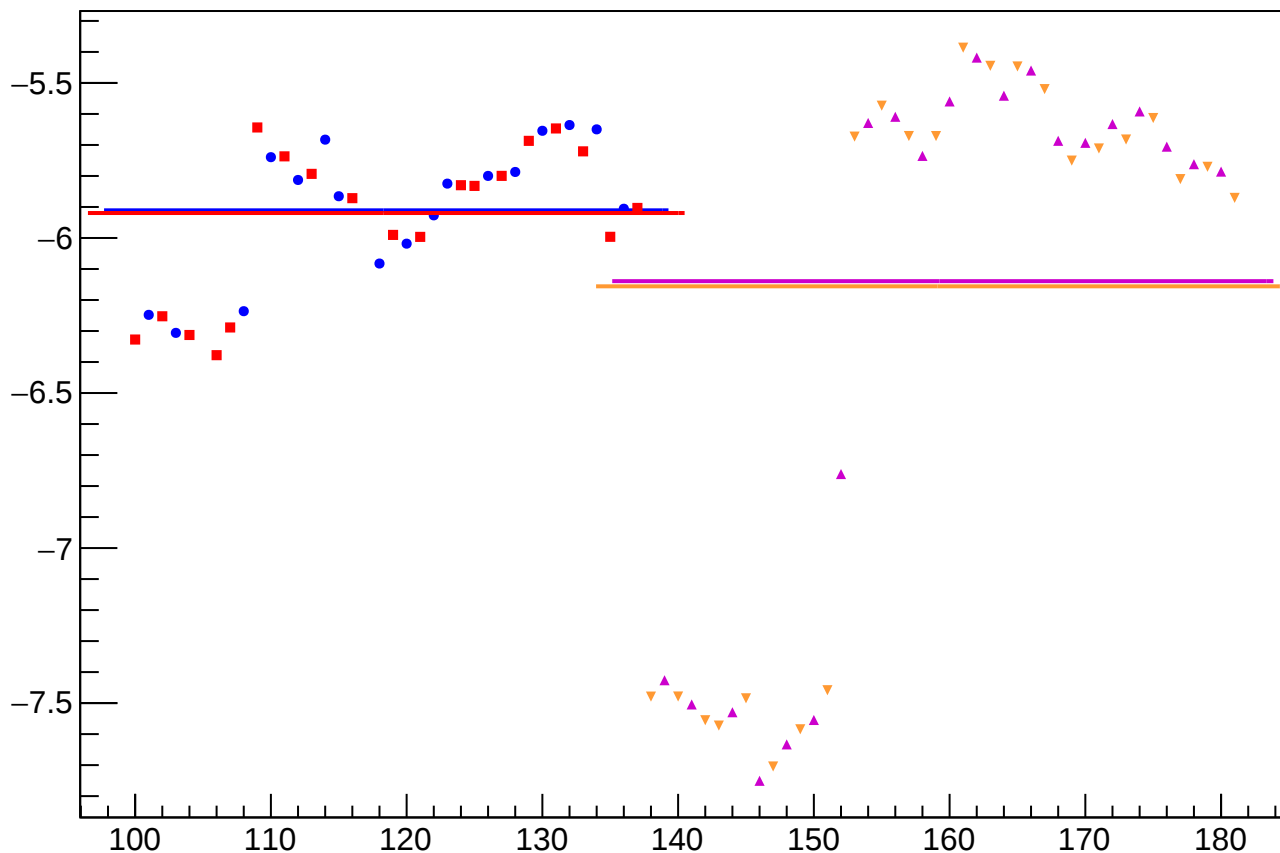
Right: 0.006+/-0.000 χ^2/NDF : 472249.9/35

In: 0.006+/-0.000 χ^2/NDF :566336.5/37

Out: 0.006+/-0.000 χ^2/NDF :495310.6/41

All: 0.006+/-0.000 χ^2/NDF : 1066238.0/79

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.911 $\pm$ 0.000 χ^2/NDF : 11134606775.1/16

Left Out: -6.156 $\pm$ 0.000 χ^2/NDF : 181191750144.2/22

Right Out: -5.919 $\pm$ 0.000 χ^2/NDF : 12817250659.6/18

Left In: -6.139 $\pm$ 0.000 χ^2/NDF : 156667346503.2/20

Left: -6.148 $\pm$ 0.000 χ^2/NDF : 337892713311.5/43

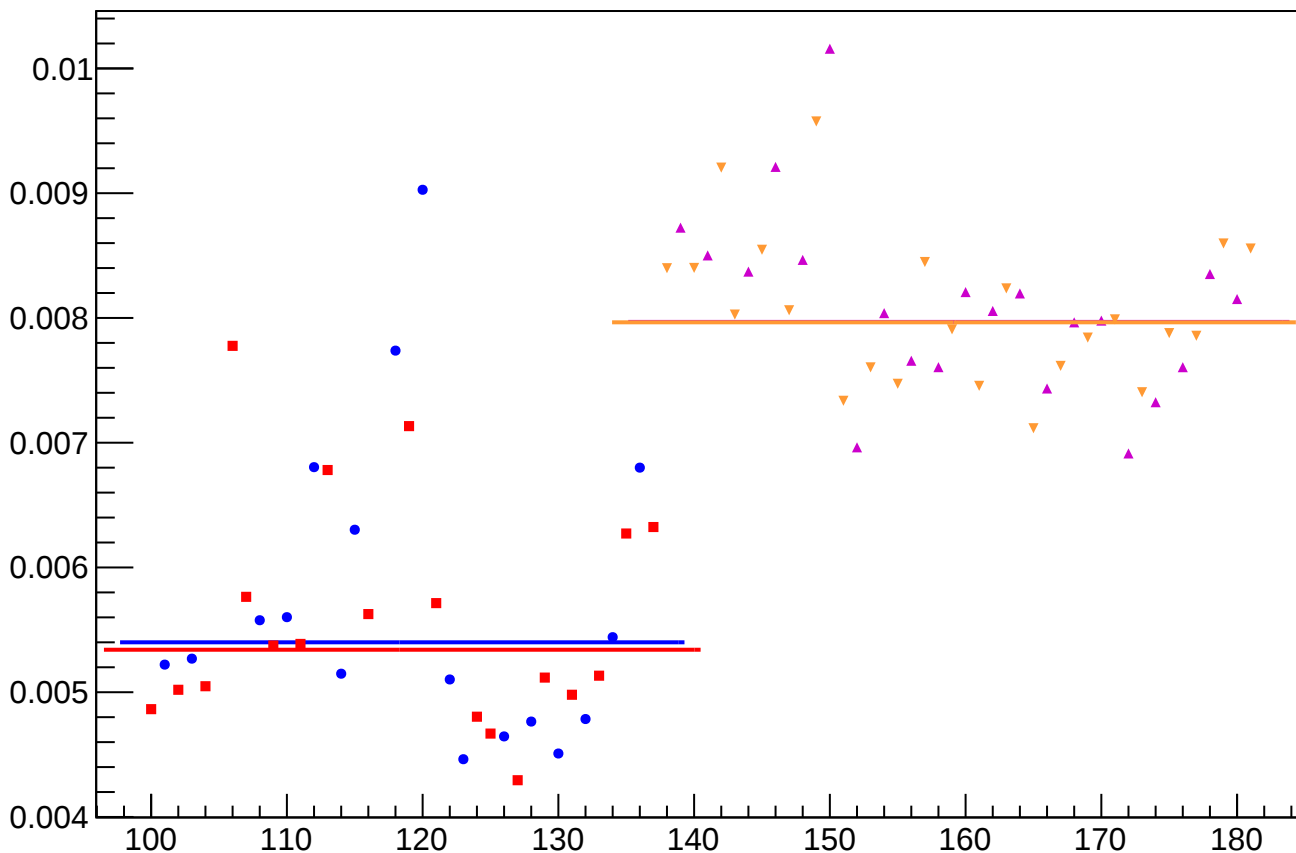
Right: -5.915 $\pm$ 0.000 χ^2/NDF : 23959758417.3/35

In: -6.034 $\pm$ 0.000 χ^2/NDF : 173463062975.7/37

Out: -6.044 $\pm$ 0.000 χ^2/NDF : 200569989990.1/41

All: -6.039 $\pm$ 0.000 χ^2/NDF : 374057781912.2

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 370479.4/16

Left Out: 0.008+/-0.000 χ^2/NDF :140651.2/22

Right Out: 0.005+/-0.000 χ^2/NDF : 251605.9/18

Left In: 0.008+/-0.000 χ^2/NDF :208523.0/20

Left: 0.008+/-0.000 χ^2/NDF : 349176.8/43

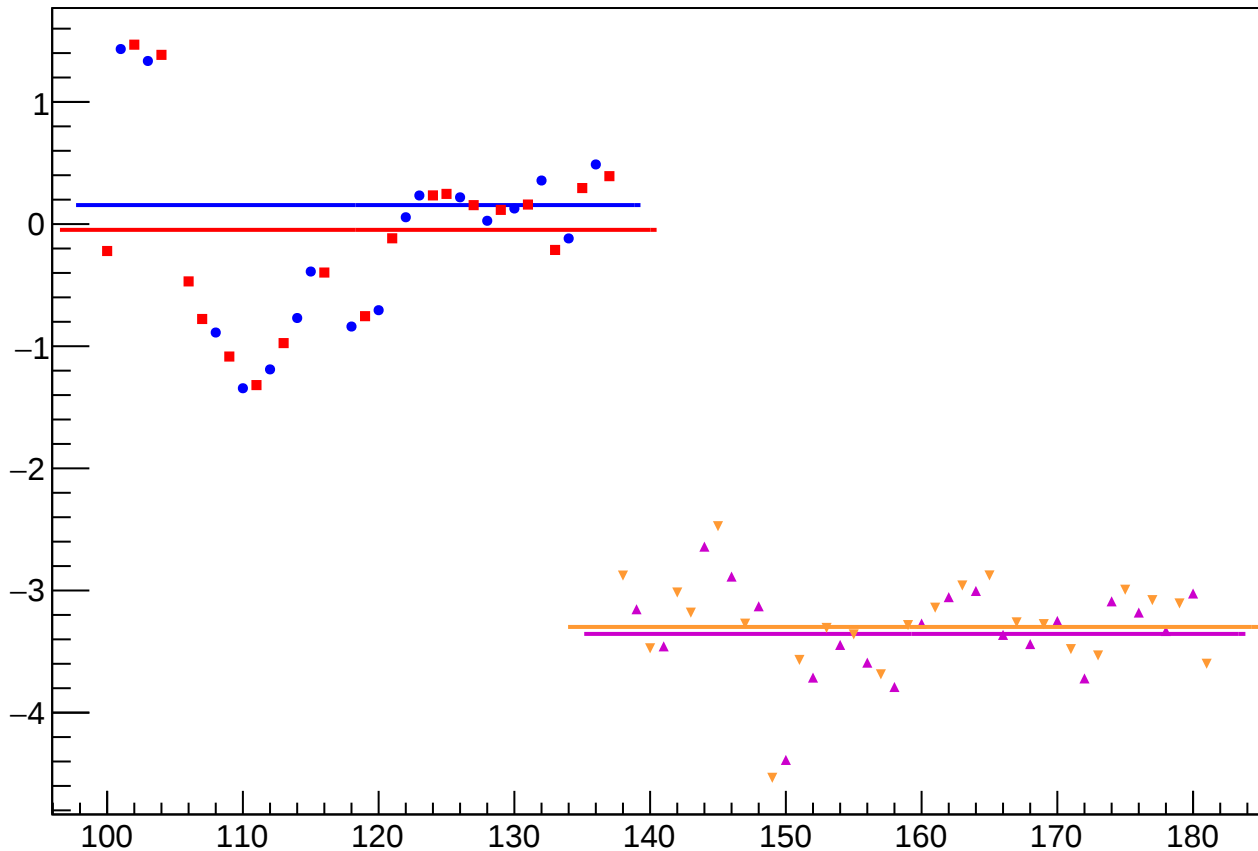
Right: 0.005+/-0.000 χ^2/NDF : 622836.6/35

In: 0.007+/-0.000 χ^2/NDF :2010945.6/37

Out: 0.007+/-0.000 χ^2/NDF :2009142.8/41

All: 0.007+/-0.000 χ^2/NDF : 4021576.2/79

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.156+/-0.000 χ^2/NDF : 16968312396.2/16

Left Out: -3.298+/-0.000 χ^2/NDF : 9055777924.0/22

Right Out: -0.047+/-0.000 χ^2/NDF : 21207878974.4/18

Left In: -3.355+/-0.000 χ^2/NDF : 8092963330.2/20

Left: -3.326+/-0.000 χ^2/NDF : 17253496715.5/43

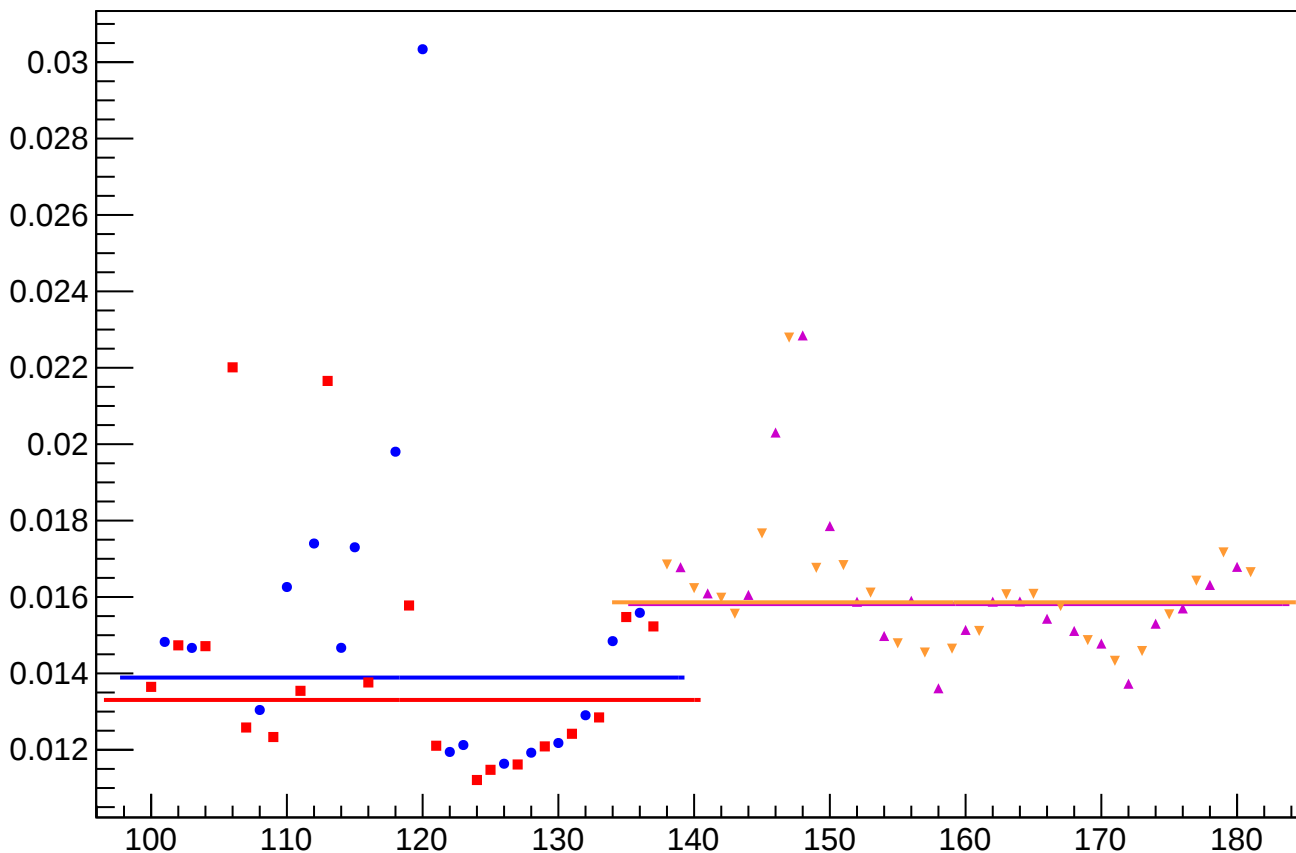
Right: 0.045+/-0.000 χ^2/NDF : 38859685690.3/35

In: -2.200+/-0.000 χ^2/NDF : 277877590561.7/37

Out: -2.147+/-0.000 χ^2/NDF : 278530738460.7/41

All: -2.172+/-0.000 χ^2/NDF : 556544664573.3

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 401280.4/16

Left Out: 0.016+/-0.000 χ^2/NDF :247884.1/22

Right Out: 0.013+/-0.000 χ^2/NDF : 293774.0/18

Left In: 0.016+/-0.000 χ^2/NDF :336032.5/20

Left: 0.016+/-0.000 χ^2/NDF : 584057.9/43

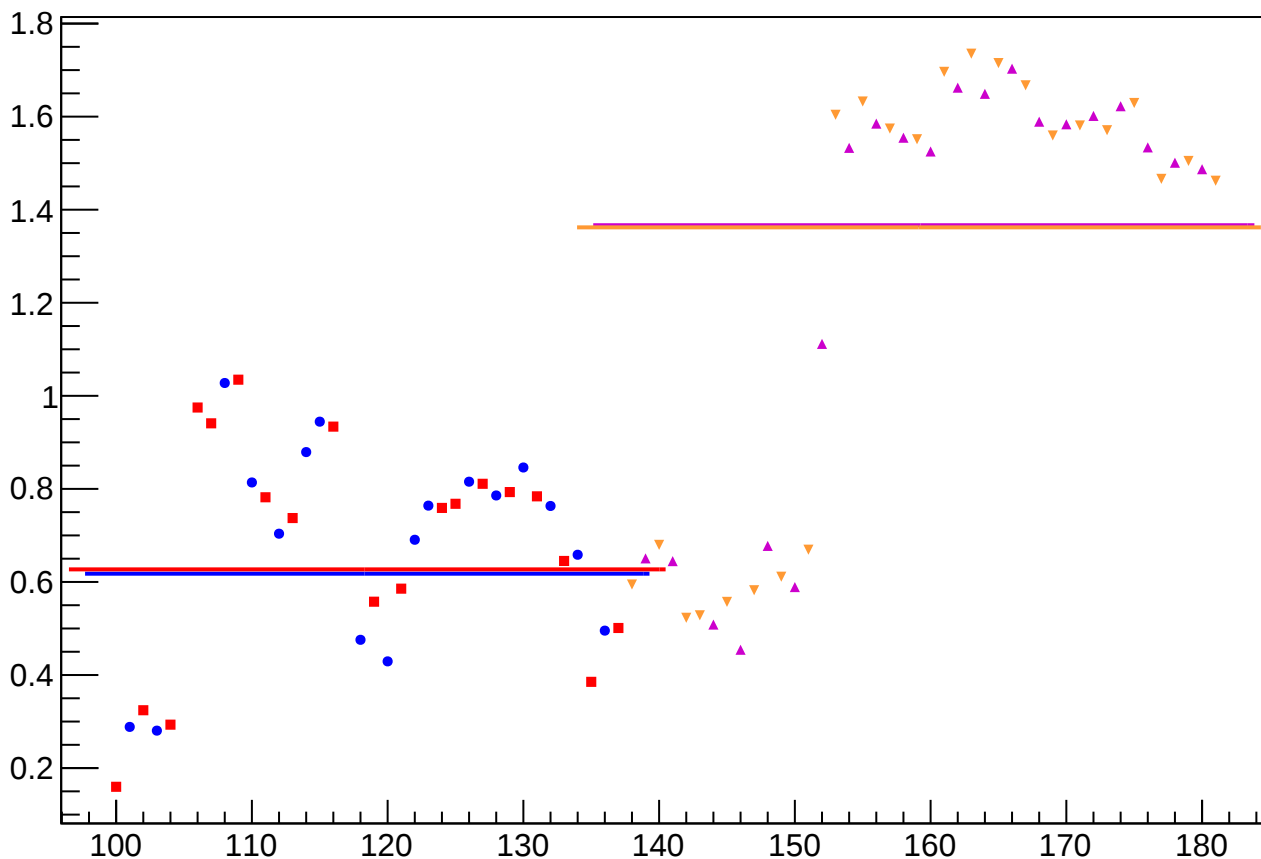
Right: 0.014+/-0.000 χ^2/NDF : 706451.8/35

In: 0.015+/-0.000 χ^2/NDF :889009.3/37

Out: 0.015+/-0.000 χ^2/NDF :848520.2/41

All: 0.015+/-0.000 χ^2/NDF : 1742478.2/79

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.618 $\pm$ 0.000 χ^2 /NDF: 5402179431.9/16

Left Out: 1.362 $\pm$ 0.000 χ^2 /NDF: 72816349996.7/22

Right Out: 0.627 $\pm$ 0.000 χ^2 /NDF: 6335950203.8/18

Left In: 1.367 $\pm$ 0.000 χ^2 /NDF: 63024638189.4/20

Left: 1.364 $\pm$ 0.000 χ^2 /NDF: 135845311577.8/43

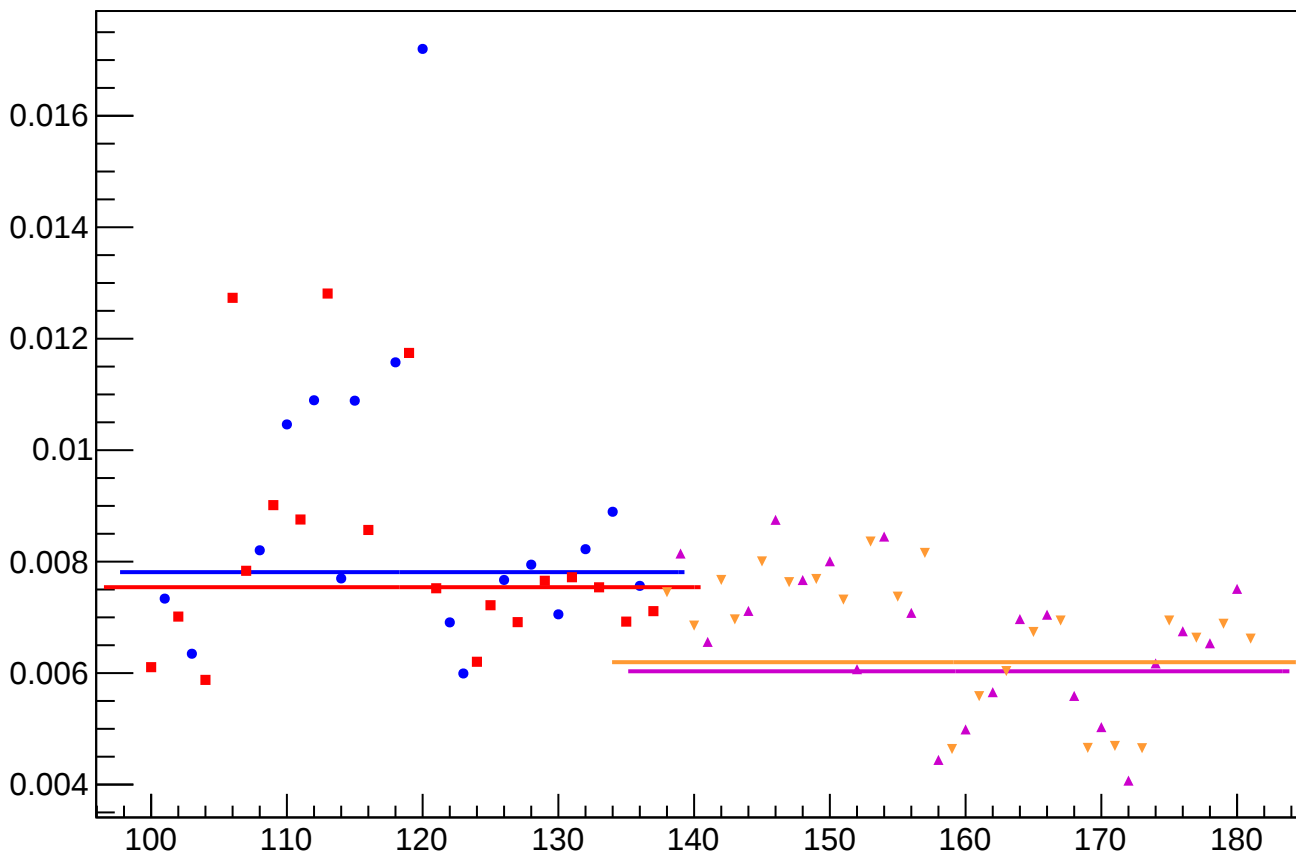
Right: 0.623 $\pm$ 0.000 χ^2 /NDF: 11742487820.7/35

In: 1.225 $\pm$ 0.000 χ^2 /NDF: 111633240807.3/37

Out: 1.208 $\pm$ 0.000 χ^2 /NDF: 125522139029.2/41

All: 1.216 $\pm$ 0.000 χ^2 /NDF: 237230413377.3

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 467235.0/16

Left Out: 0.006+/-0.000 χ^2/NDF :1275431.1/22

Right Out: 0.008+/-0.000 χ^2/NDF : 441480.1/18

Left In: 0.006+/-0.000 χ^2/NDF :1400251.1/20

Left: 0.006+/-0.000 χ^2/NDF : 2686580.8/43

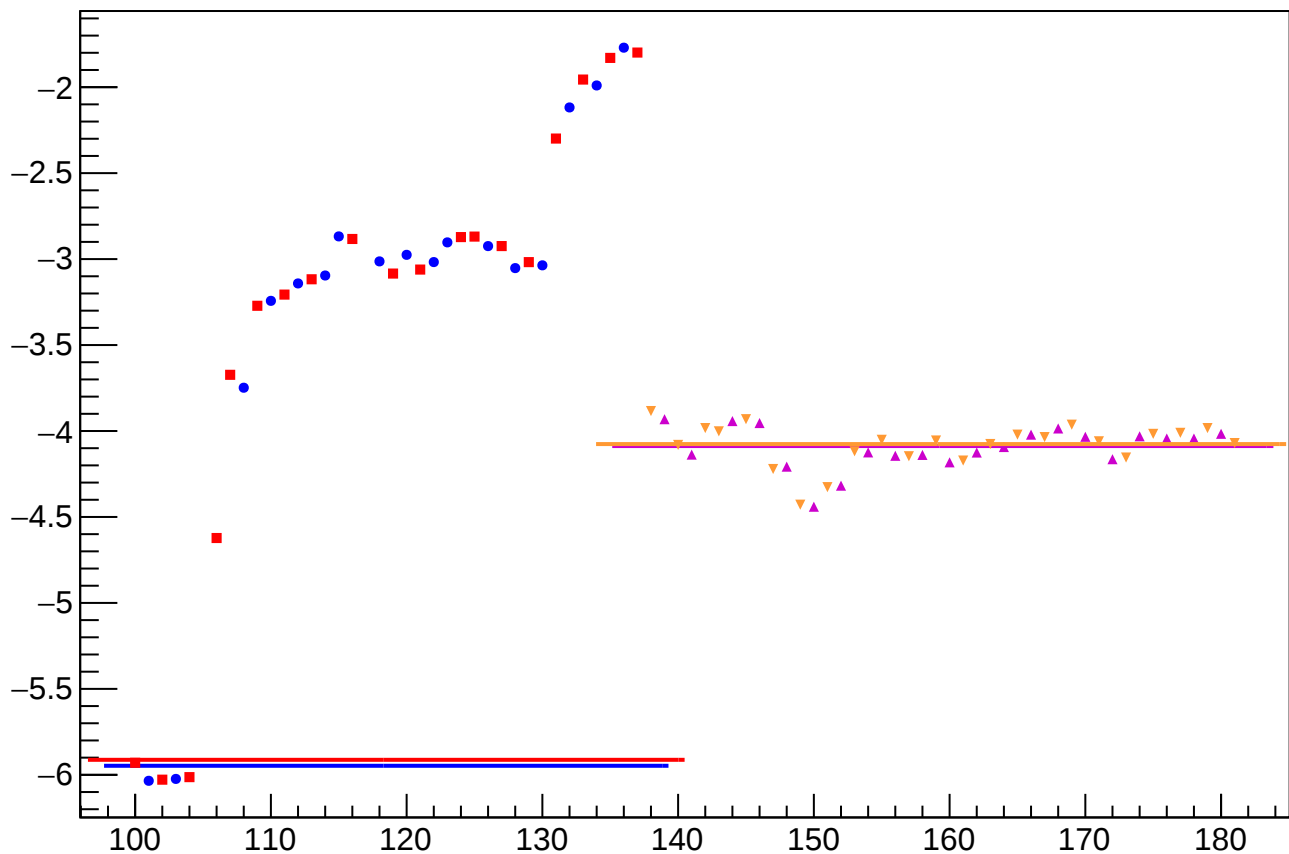
Right: 0.008+/-0.000 χ^2/NDF : 916097.9/35

In: 0.006+/-0.000 χ^2/NDF :2355092.5/37

Out: 0.006+/-0.000 χ^2/NDF :2027763.7/41

All: 0.006+/-0.000 χ^2/NDF : 4388940.9/79

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.947+/-0.000 χ^2/NDF : 13110506154.0/16

Left Out: -4.076+/-0.000 χ^2/NDF : 36163263.5/22

Right Out: -5.913+/-0.000 χ^2/NDF : 14598904051.6/18

Left In: -4.088+/-0.000 χ^2/NDF : 34402474.9/20

Left: -4.083+/-0.000 χ^2/NDF : 70767192.6/43

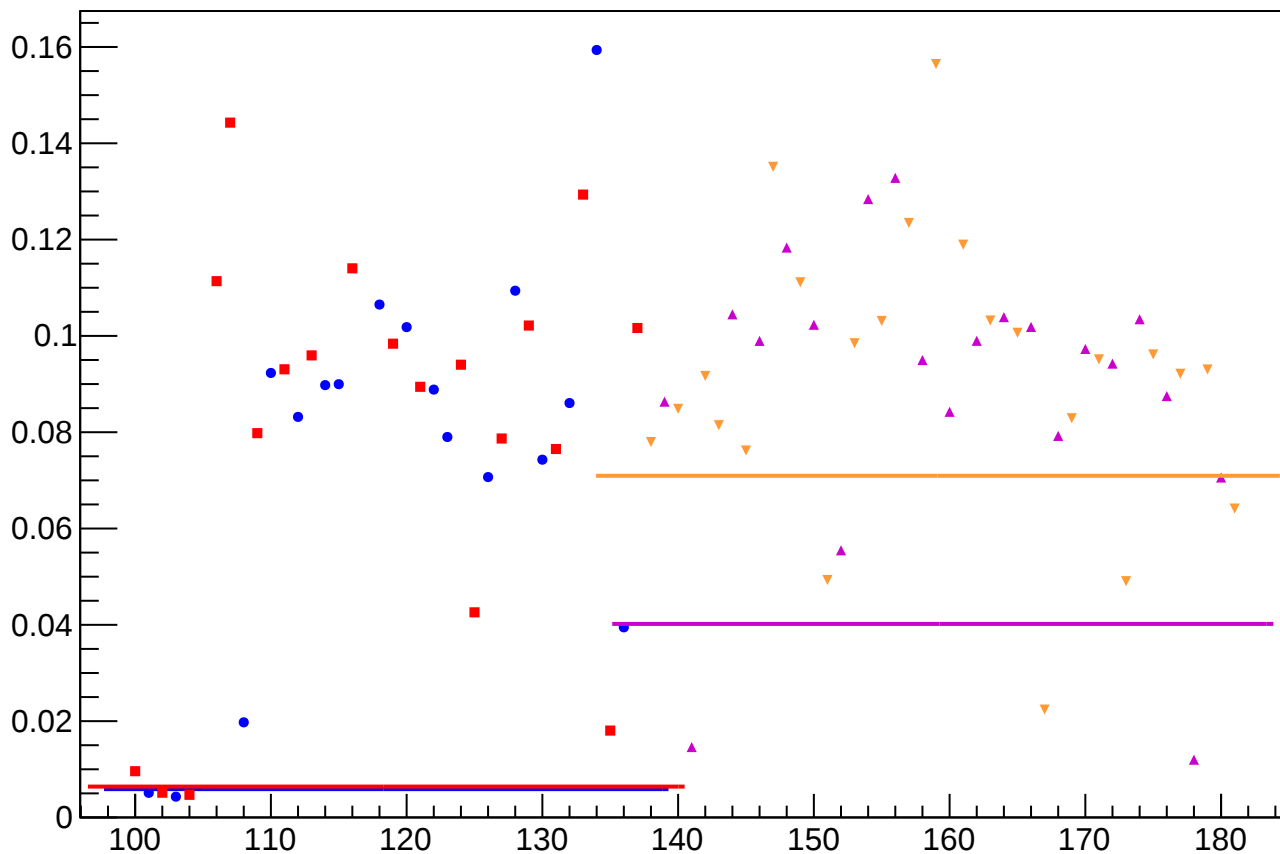
Right: -5.932+/-0.000 χ^2/NDF : 27734843277.8/35

In: -5.796+/-0.000 χ^2/NDF : 26438527550.1/37

Out: -5.804+/-0.000 χ^2/NDF : 22225298814.7/41

All: -5.800+/-0.000 χ^2/NDF : 48665237429.6/78

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 7912012.3/16

Left Out: 0.071+/-0.000 χ^2/NDF : 5013383.8/22

Right Out: 0.006+/-0.000 χ^2/NDF : 8462409.6/18

Left In: 0.040+/-0.000 χ^2/NDF : 12408554.8/20

Left: 0.051+/-0.000 χ^2/NDF : 20301080.9/43

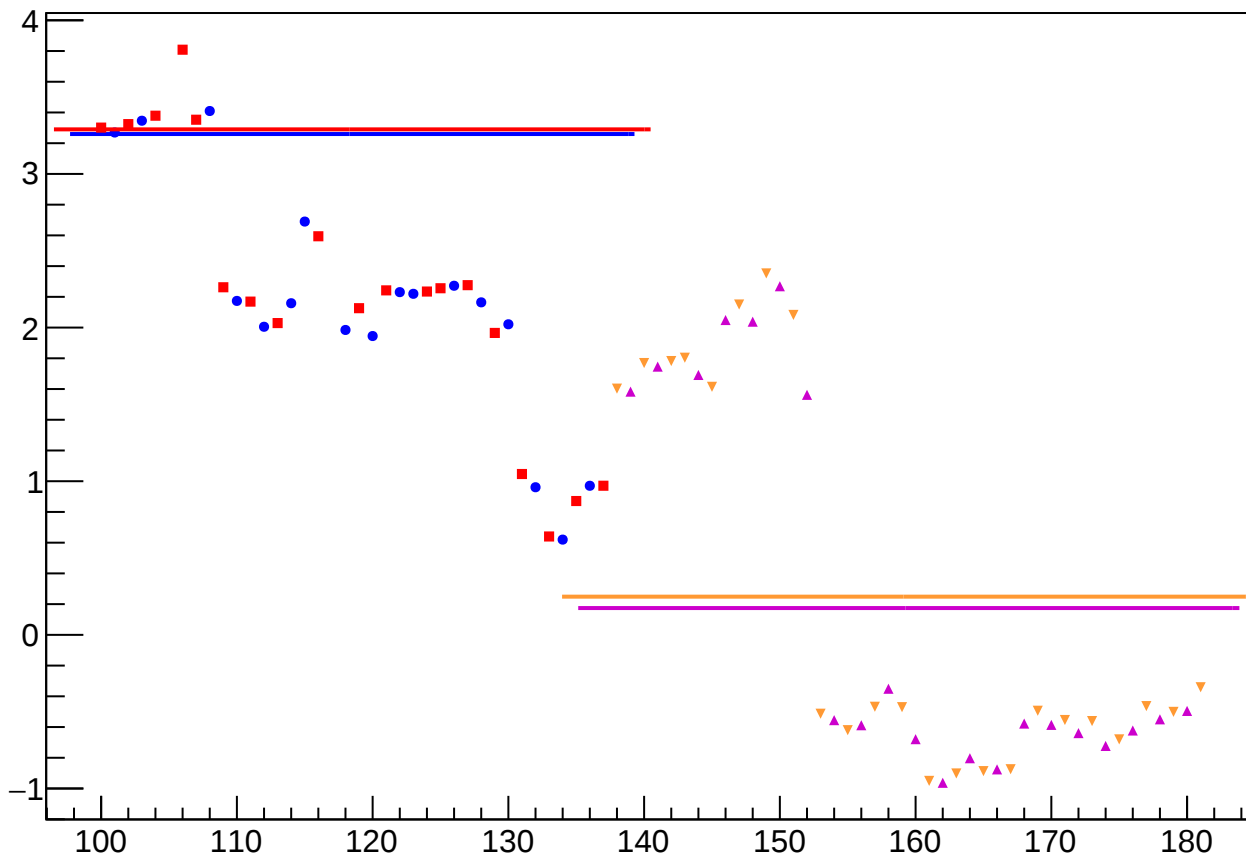
Right: 0.006+/-0.000 χ^2/NDF : 16386134.2/35

In: 0.009+/-0.000 χ^2/NDF : 29368860.8/37

Out: 0.010+/-0.000 χ^2/NDF : 32223807.6/41

All: 0.009+/-0.000 χ^2/NDF : 61701566.2/79

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260 $\pm$ 0.000 χ^2 /NDF: 2914830636.8/16

Left Out: 0.249 $\pm$ 0.000 χ^2 /NDF:3095067844.5/22

Right Out: 3.290 $\pm$ 0.000 χ^2 /NDF: 3257931929.9/18

Left In: 0.174 $\pm$ 0.000 χ^2 /NDF:3128301212.1/20

Left: 0.208 $\pm$ 0.000 χ^2 /NDF: 6229606880.7/43

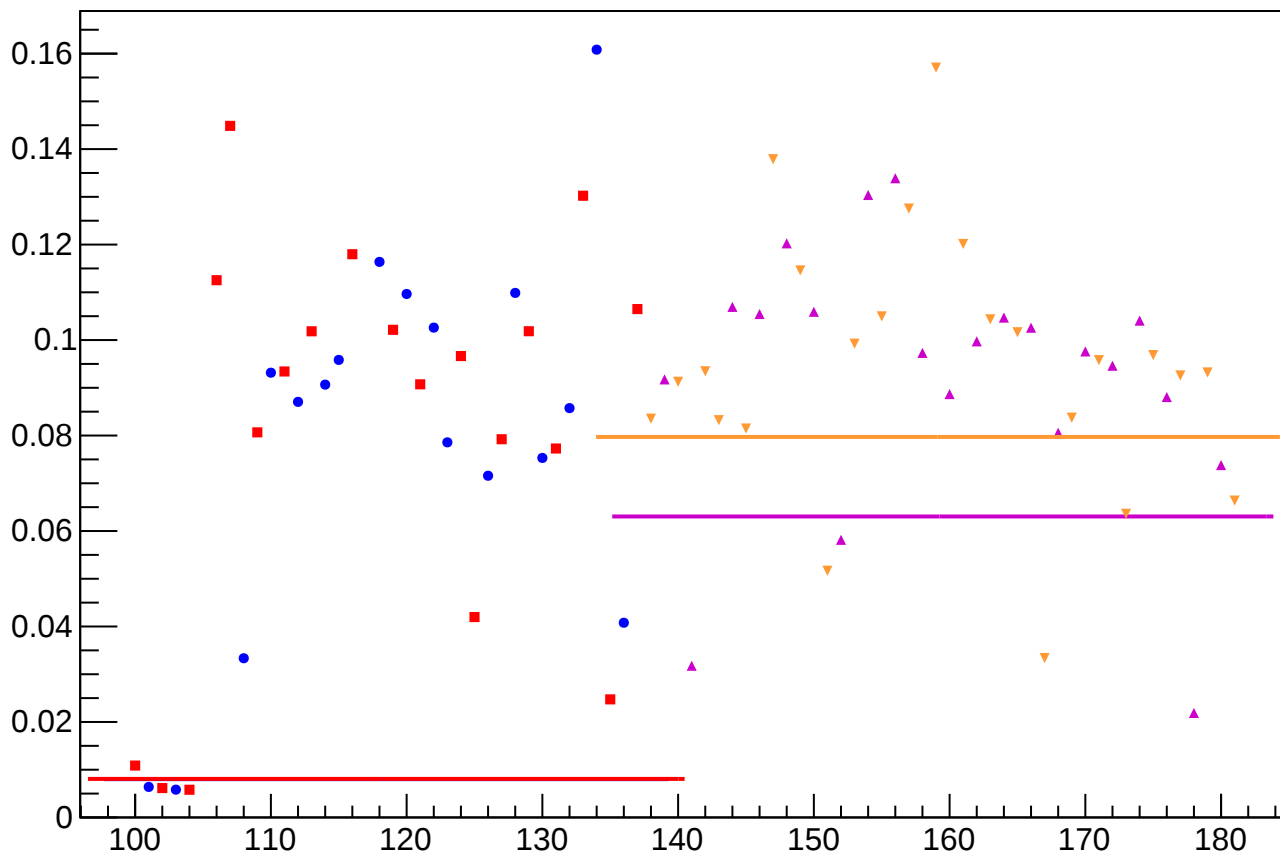
Right: 3.274 $\pm$ 0.000 χ^2 /NDF: 6185493270.5/35

In: 3.013 $\pm$ 0.000 χ^2 /NDF:27967674831.8/37

Out: 3.070 $\pm$ 0.000 χ^2 /NDF:24093668594.1/41

All: 3.040 $\pm$ 0.000 χ^2 /NDF: 52110015787.4/71

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 7721103.3/16

Left Out: 0.080+/-0.000 χ^2/NDF : 3220342.2/22

Right Out: 0.008+/-0.000 χ^2/NDF : 8274347.6/18

Left In: 0.063+/-0.000 χ^2/NDF : 6624923.9/20

Left: 0.071+/-0.000 χ^2/NDF : 10473774.7/43

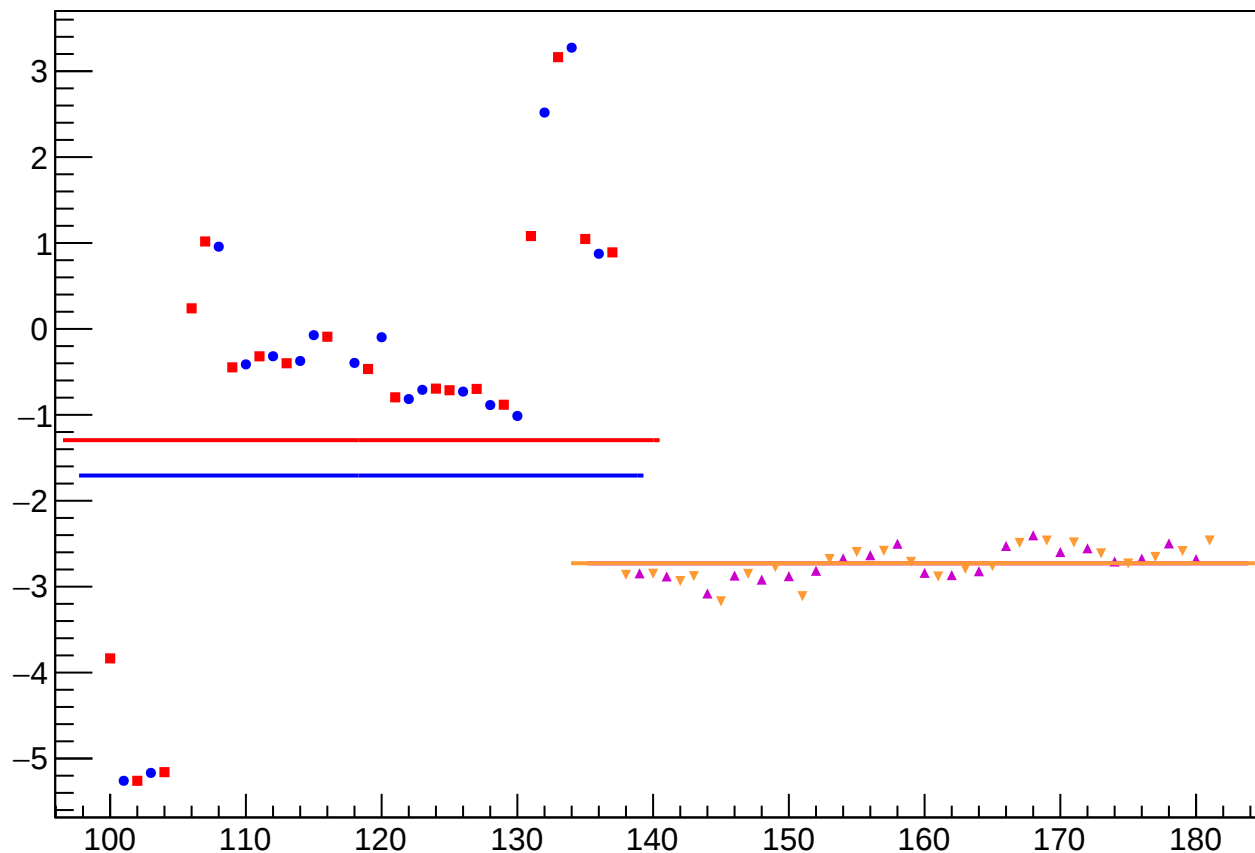
Right: 0.008+/-0.000 χ^2/NDF : 15995510.5/35

In: 0.012+/-0.000 χ^2/NDF : 28290709.7/37

Out: 0.013+/-0.000 χ^2/NDF : 31175846.7/41

All: 0.013+/-0.000 χ^2/NDF : 59487107.3/79

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.706+/-0.000 χ^2/NDF : 166152957432.2/16

Left Out: -2.727+/-0.000 χ^2/NDF : 9988774308.4/22

Right Out: -1.295+/-0.000 χ^2/NDF : 178454284120.5/18

Left In: -2.728+/-0.000 χ^2/NDF : 7894242637.8/20

Left: -2.728+/-0.000 χ^2/NDF : 17883176772.4/43

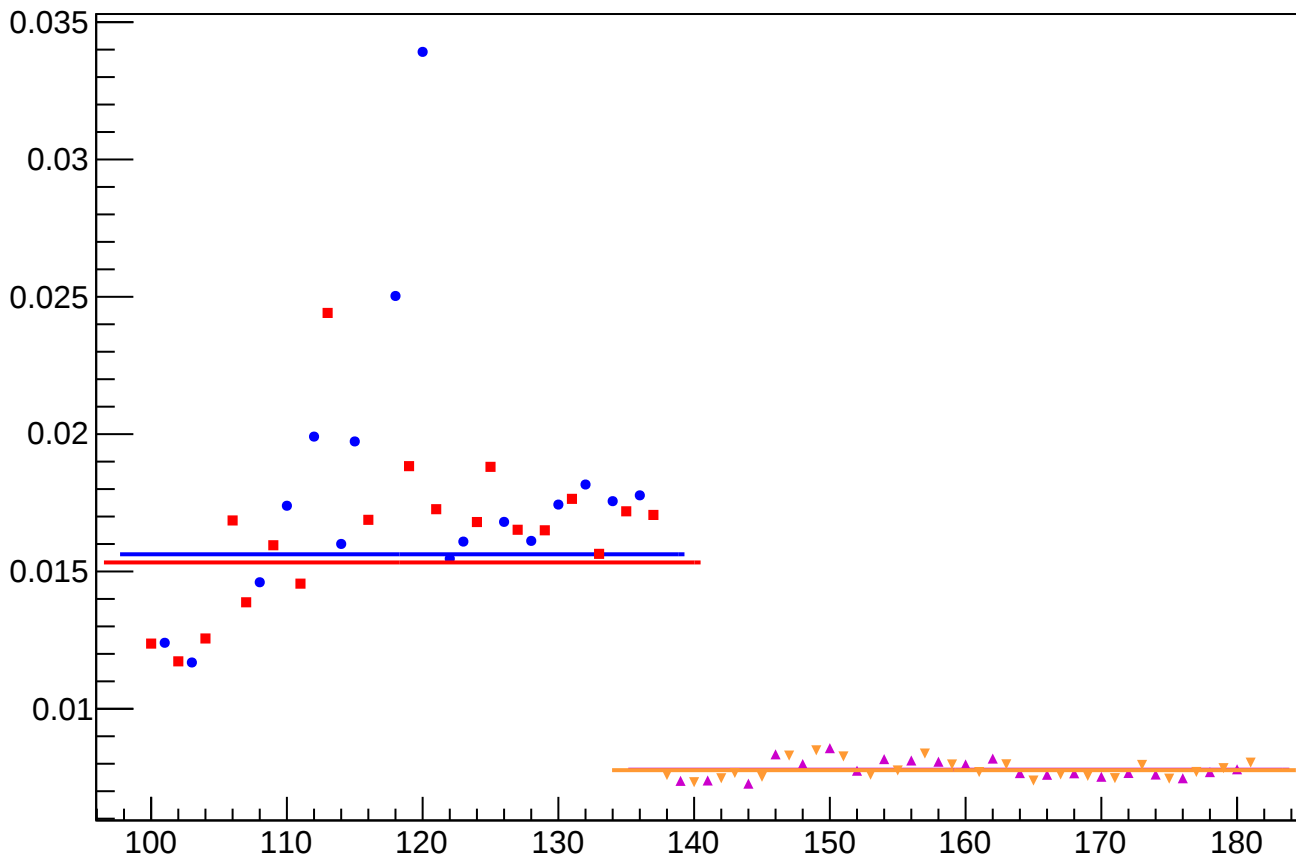
Right: -1.486+/-0.000 χ^2/NDF : 346679077409.6/35

In: -2.645+/-0.000 χ^2/NDF : 196017965875.7/37

Out: -2.603+/-0.000 χ^2/NDF : 2377744448564.7/41

All: -2.623+/-0.000 χ^2/NDF : 434055146018.2

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 576262.6/16

Left Out: 0.008+/-0.000 χ^2/NDF : 55099.1/22

Right Out: 0.015+/-0.000 χ^2/NDF : 349445.5/18

Left In: 0.008+/-0.000 χ^2/NDF : 58136.0/20

Left: 0.008+/-0.000 χ^2/NDF : 113311.5/43

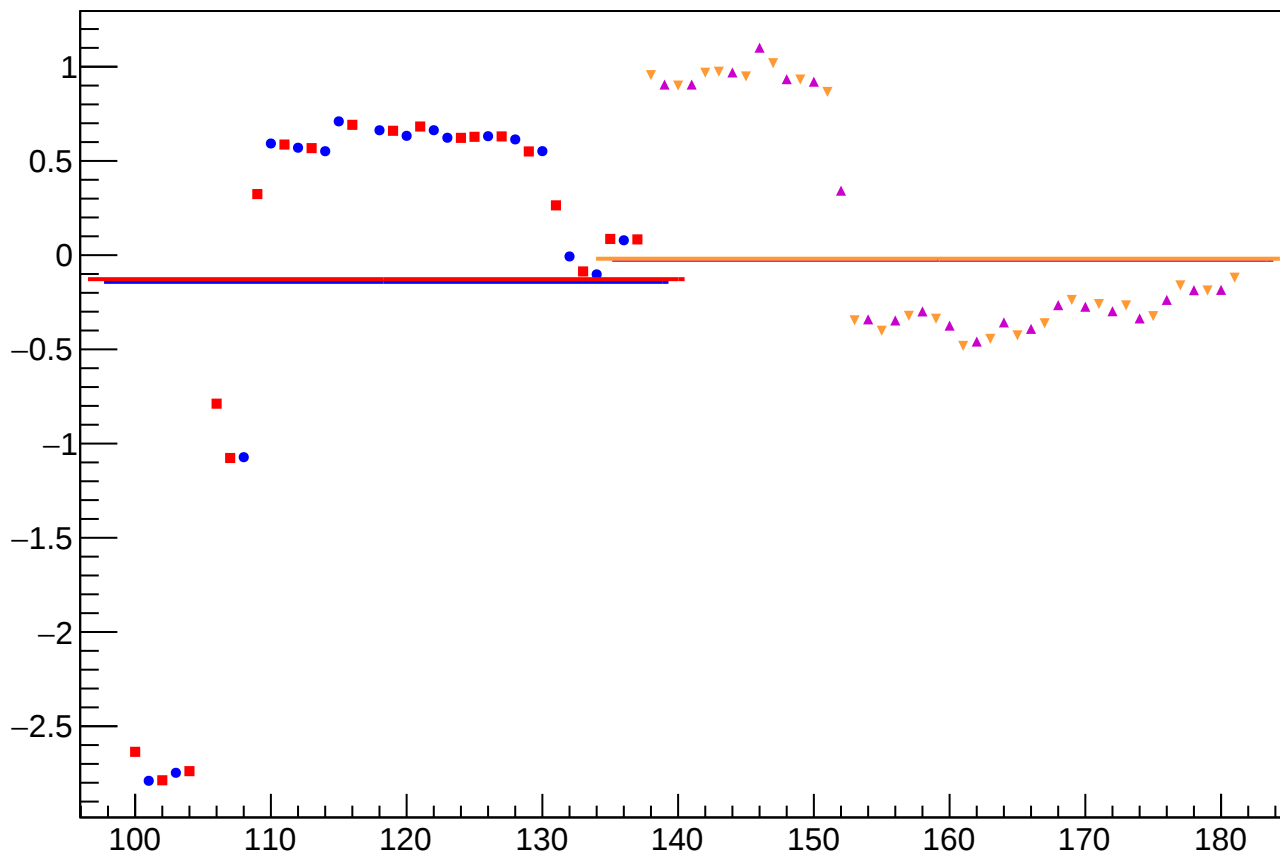
Right: 0.015+/-0.000 χ^2/NDF : 927870.4/35

In: 0.008+/-0.000 χ^2/NDF : 3222737.0/37

Out: 0.008+/-0.000 χ^2/NDF : 3155919.4/41

All: 0.008+/-0.000 χ^2/NDF : 6378658.8/79

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -0.142+/-0.000

χ^2/NDF : 713960839307.6/16

Left: -0.022+/-0.000

χ^2/NDF : 245715305248.0/43

Left Out: -0.019+/-0.000

χ^2/NDF : 132499287455.3/22

Right: -0.134+/-0.000

χ^2/NDF : 1474652420733.4/3

Right Out: -0.128+/-0.000

χ^2/NDF : 760638736693.8/18

In: -0.088+/-0.000

χ^2/NDF : 830382131823.3/37

Out: -0.078+/-0.000

χ^2/NDF : 896126600045.8/41

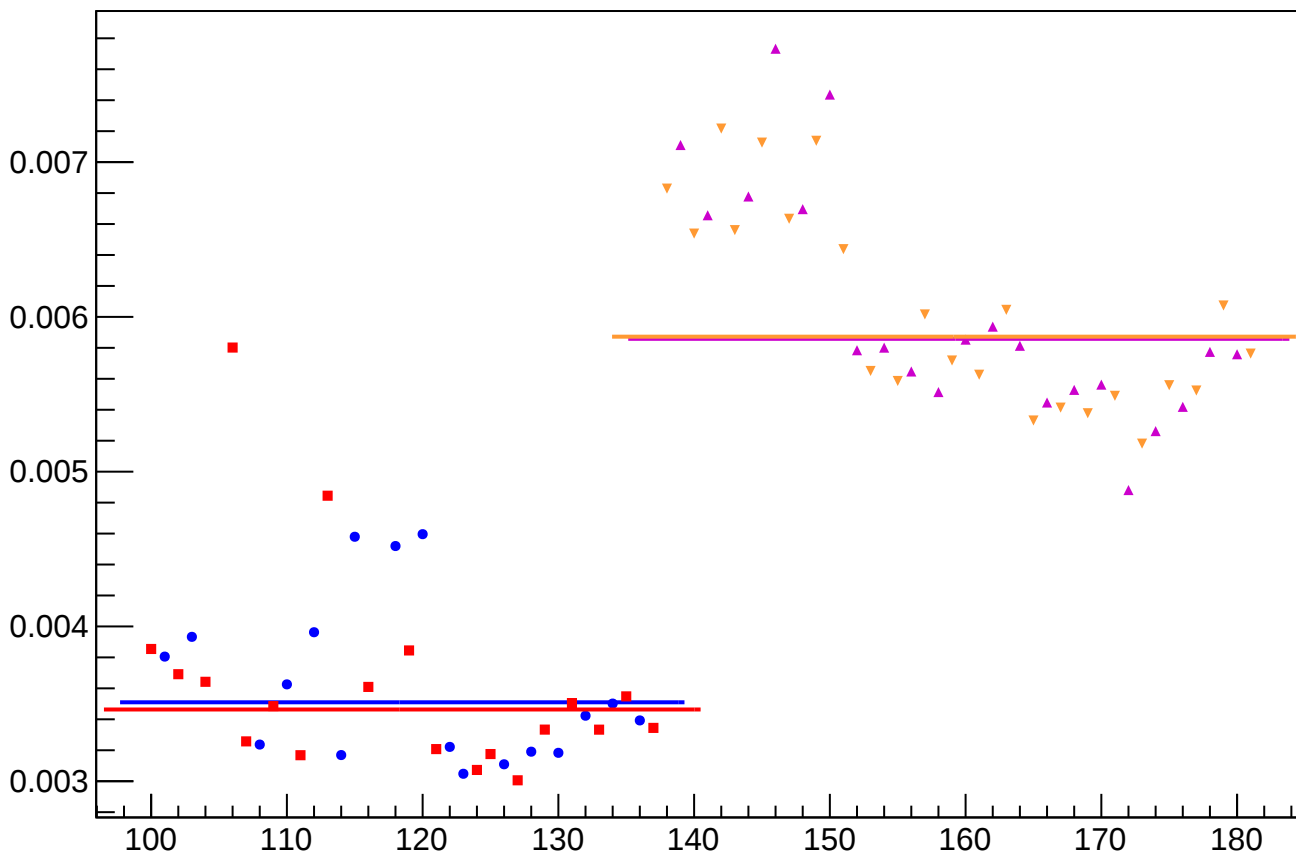
Left In: -0.025+/-0.000

χ^2/NDF : 113207608251.9/20

All: -0.083+/-0.000

χ^2/NDF : 1726552196192

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 171943.8/16

Left Out: 0.006+/-0.000 χ^2/NDF :283604.9/22

Right Out: 0.003+/-0.000 χ^2/NDF : 215500.5/18

Left In: 0.006+/-0.000 χ^2/NDF :363368.1/20

Left: 0.006+/-0.000 χ^2/NDF : 647061.0/43

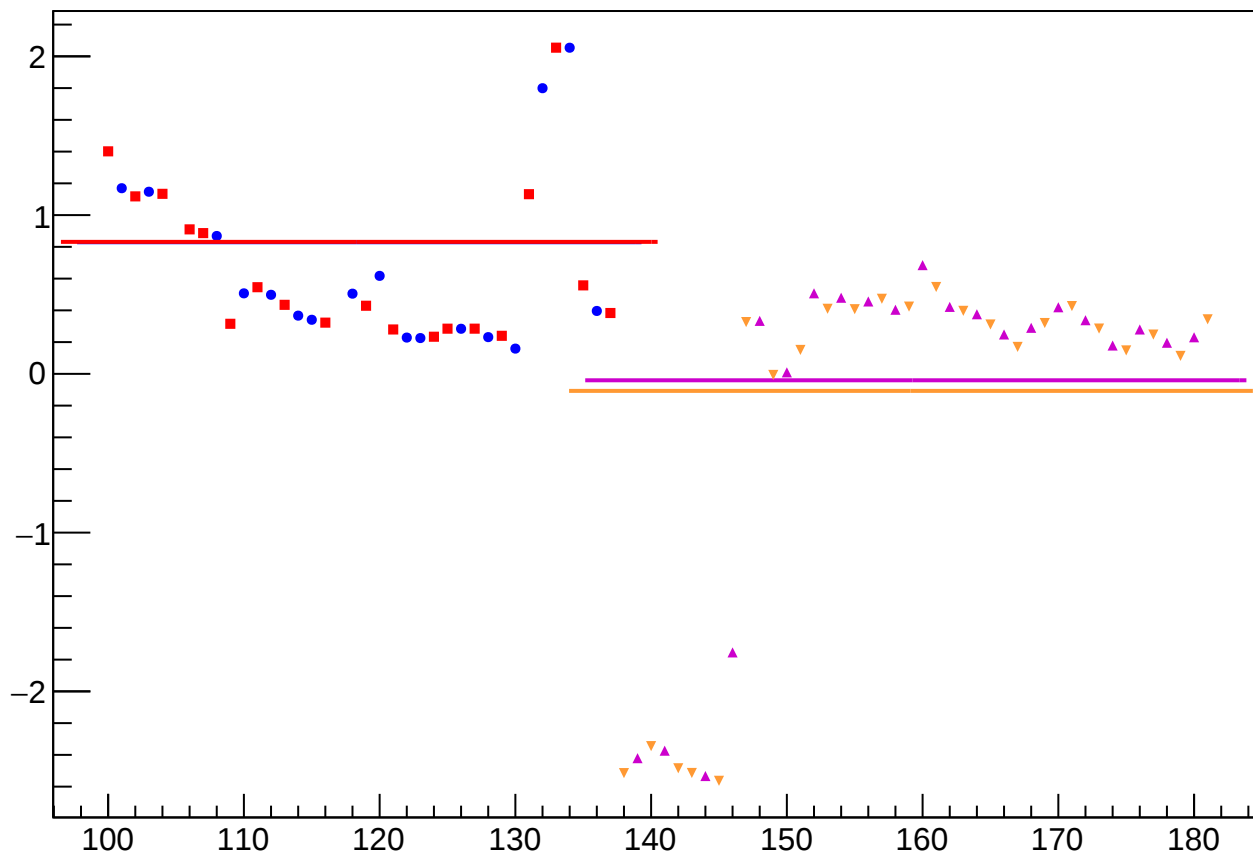
Right: 0.003+/-0.000 χ^2/NDF : 388598.7/35

In: 0.005+/-0.000 χ^2/NDF :3141143.6/37

Out: 0.005+/-0.000 χ^2/NDF :3436912.3/41

All: 0.005+/-0.000 χ^2/NDF : 6579672.6/79

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.829 ± 0.000 $\chi^2/\text{NDF}: 31663410264.3/16$

Left Out: -0.107 ± 0.000 $\chi^2/\text{NDF}: 488437287989.3/22$

Right Out: 0.831 ± 0.000 $\chi^2/\text{NDF}: 33383369168.0/18$

Left In: -0.041 ± 0.000 $\chi^2/\text{NDF}: 413401664651.7/20$

Left: -0.075 ± 0.000 $\chi^2/\text{NDF}: 902901930502.3/43$

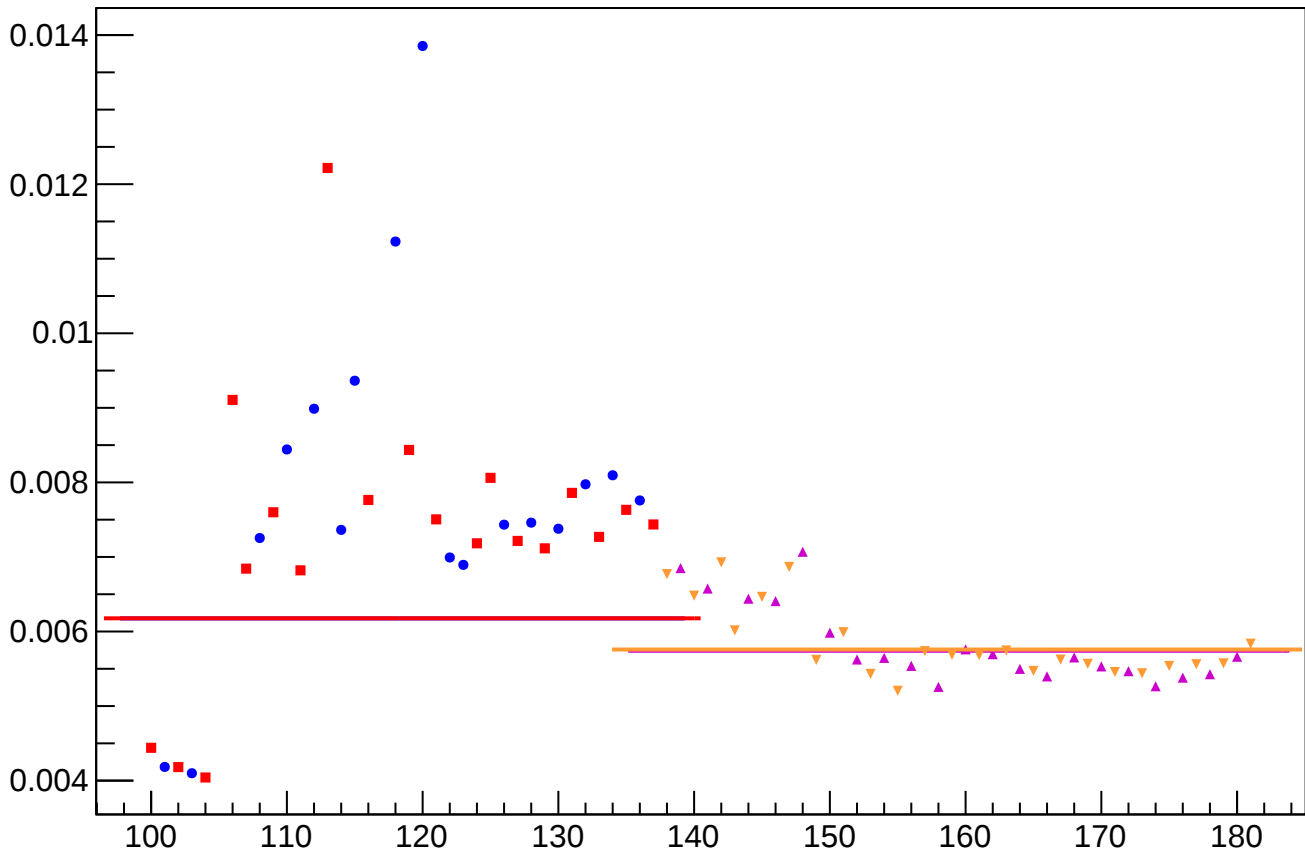
Right: 0.830 ± 0.000 $\chi^2/\text{NDF}: 65047160404.8/35$

In: 0.159 ± 0.000 $\chi^2/\text{NDF}: 526038126934.4/37$

Out: 0.115 ± 0.000 $\chi^2/\text{NDF}: 623999865853.8/41$

All: 0.137 ± 0.000 $\chi^2/\text{NDF}: 1150654798713.$

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1221890.6/16

Left Out: 0.006+/-0.000 χ^2/NDF :173222.0/22

Right Out: 0.006+/-0.000 χ^2/NDF : 1020690.2/18

Left In: 0.006+/-0.000 χ^2/NDF :201342.5/20

Left: 0.006+/-0.000 χ^2/NDF : 374692.1/43

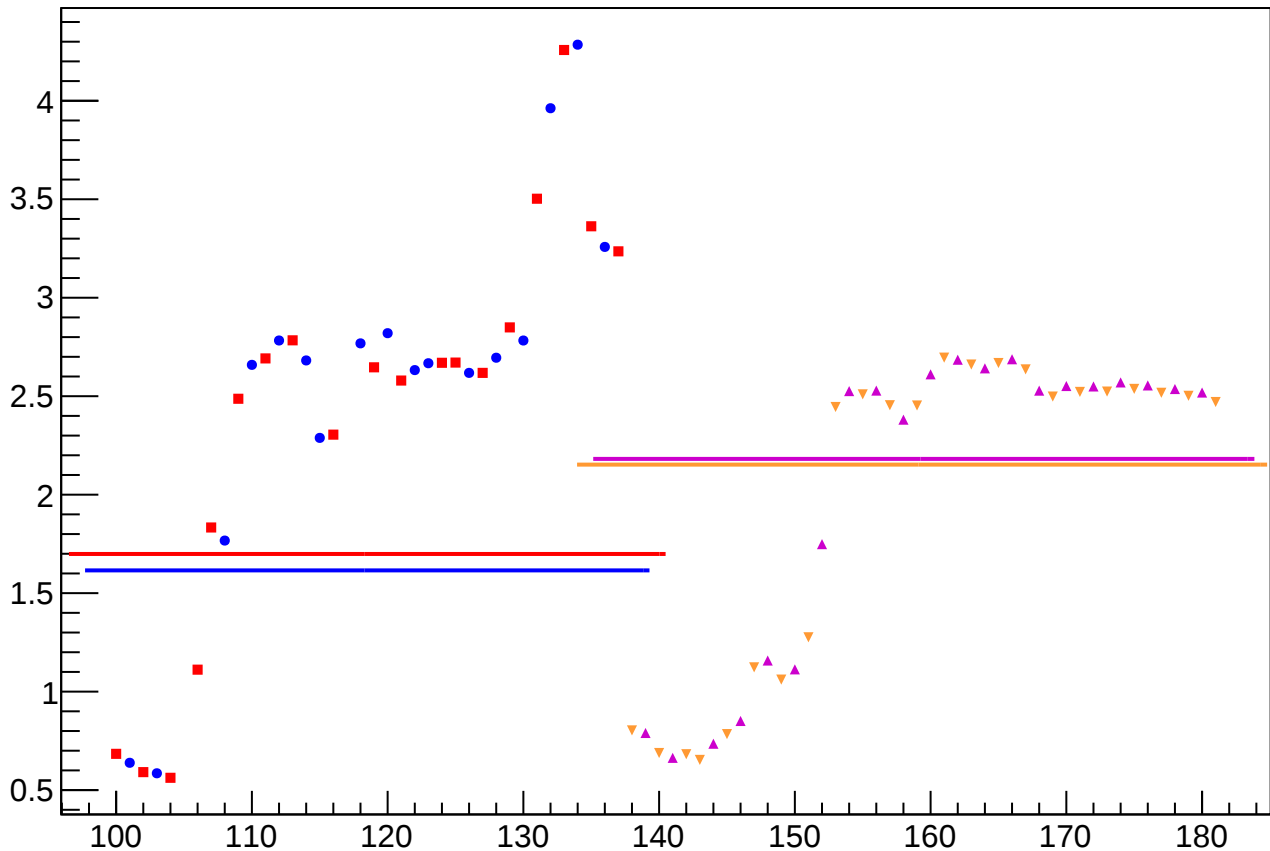
Right: 0.006+/-0.000 χ^2/NDF : 2242581.1/35

In: 0.006+/-0.000 χ^2/NDF :1463459.3/37

Out: 0.006+/-0.000 χ^2/NDF :1234545.1/41

All: 0.006+/-0.000 χ^2/NDF : 2698159.2/79

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.616 $\pm$ 0.000 χ^2/NDF : 202687681737.9/16

Left Out: 2.153 $\pm$ 0.000 χ^2/NDF : 284002130205.8/22

Right Out: 1.699 $\pm$ 0.000 χ^2/NDF : 227853059871.9/18

Left In: 2.182 $\pm$ 0.000 χ^2/NDF : 249918354382.8/20

Left: 2.167 $\pm$ 0.000 χ^2/NDF : 534153337643.4/43

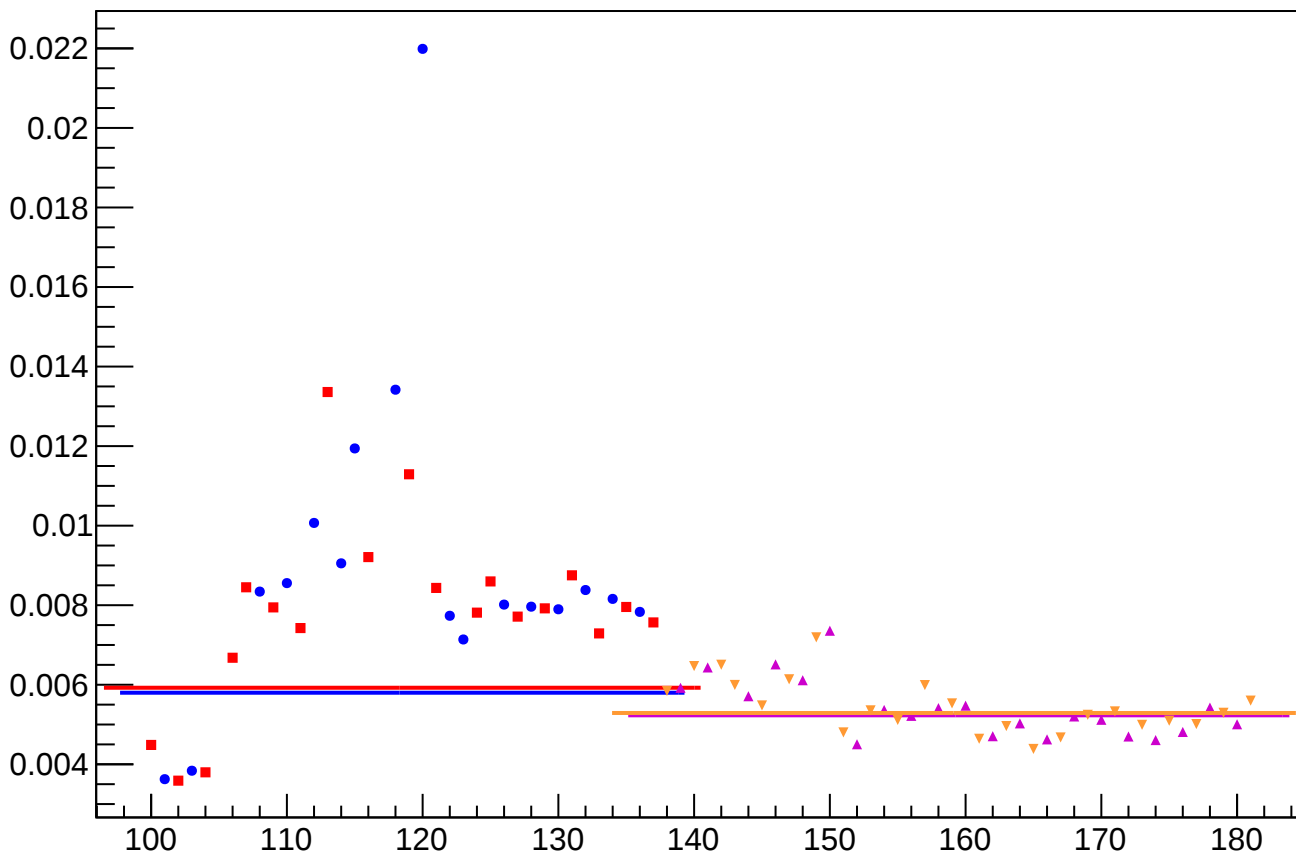
Right: 1.659 $\pm$ 0.000 χ^2/NDF : 431053573295.4/35

In: 2.064 $\pm$ 0.000 χ^2/NDF : 488886994458.3/37

Out: 2.056 $\pm$ 0.000 χ^2/NDF : 536513900005.1/41

All: 2.060 $\pm$ 0.000 χ^2/NDF : 1025422421106.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1911401.2/16

Left Out: 0.005+/-0.000 χ^2/NDF : 379651.2/22

Right Out: 0.006+/-0.000 χ^2/NDF : 1677224.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 421671.6/20

Left: 0.005+/-0.000 χ^2/NDF : 803239.4/43

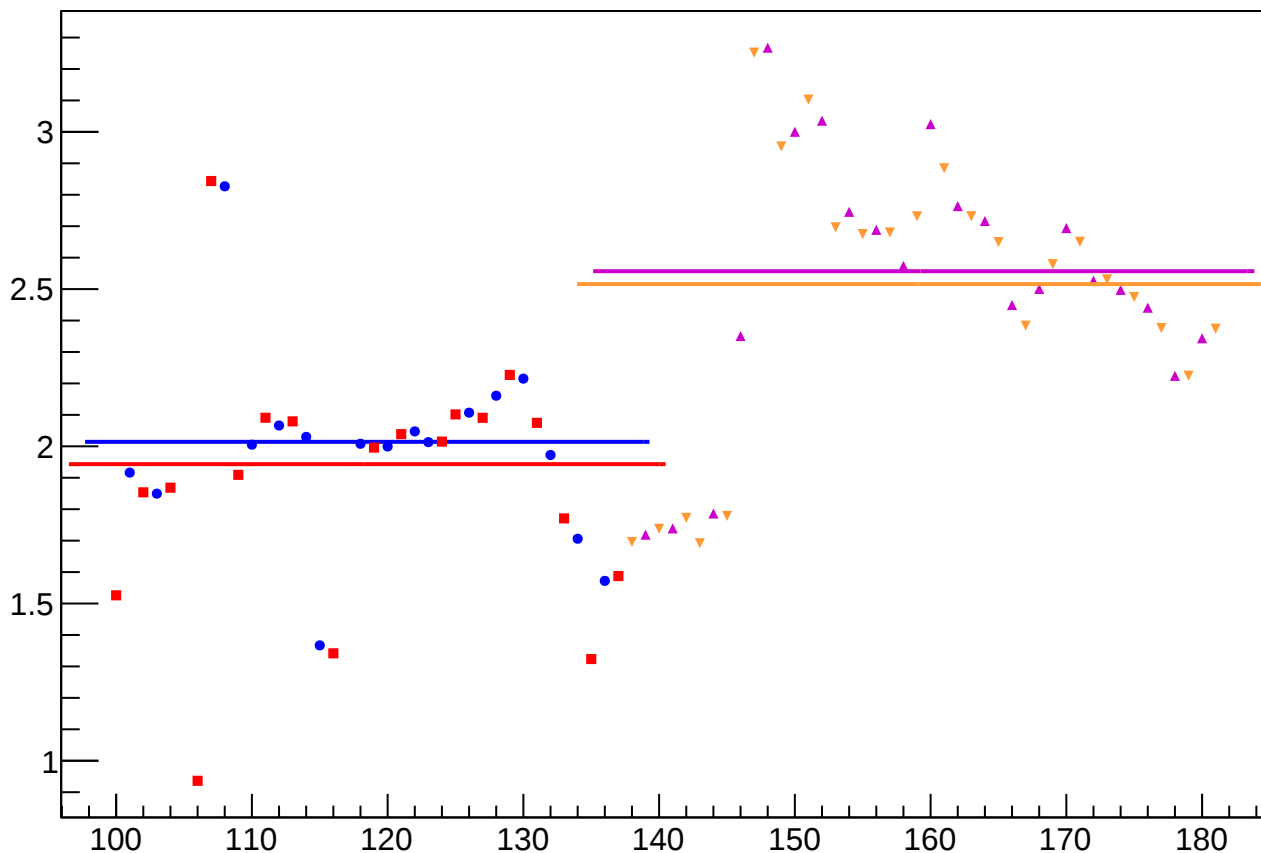
Right: 0.006+/-0.000 χ^2/NDF : 3590939.0/35

In: 0.005+/-0.000 χ^2/NDF : 2406146.1/37

Out: 0.005+/-0.000 χ^2/NDF : 2153309.9/41

All: 0.005+/-0.000 χ^2/NDF : 4563483.8/79

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.014+/-0.000

χ^2/NDF : 12207088036.2/16

Left: 2.536+/-0.000

χ^2/NDF : 96383432967.8/43

Left Out: 2.516+/-0.000

χ^2/NDF : 51207146964.4/22

Right: 1.977+/-0.000

χ^2/NDF : 33985983843.8/35

Right Out: 1.943+/-0.000

χ^2/NDF : 21416554404.5/18

In: 2.387+/-0.000

χ^2/NDF : 84671591763.1/37

Out: 2.328+/-0.000

χ^2/NDF : 106064677739.5/41

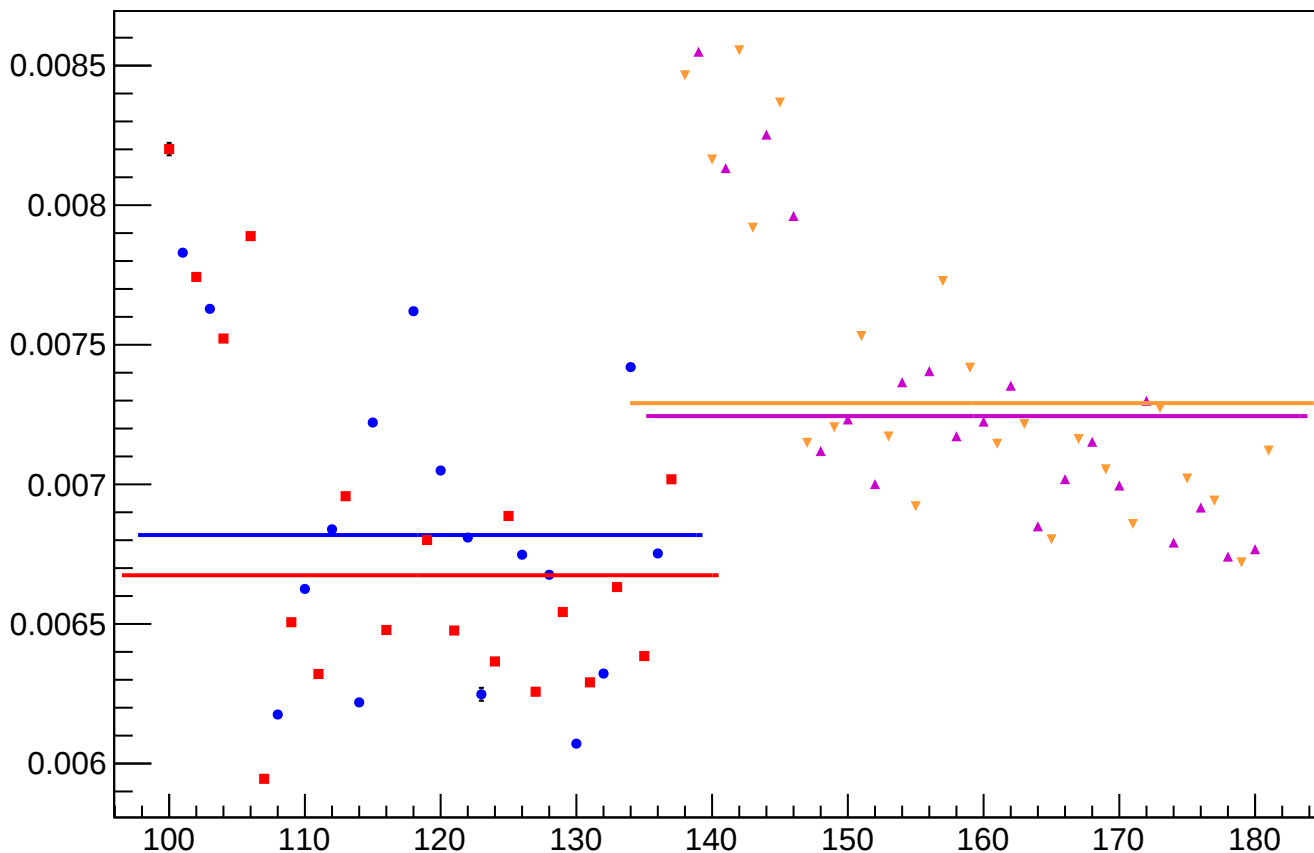
Left In: 2.557+/-0.000

χ^2/NDF : 44919075163.0/20

All: 2.356+/-0.000

χ^2/NDF : 191507621286.9

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 76886.5/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:137810.2/22

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 76755.5/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:124684.3/20

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 263153.3/43

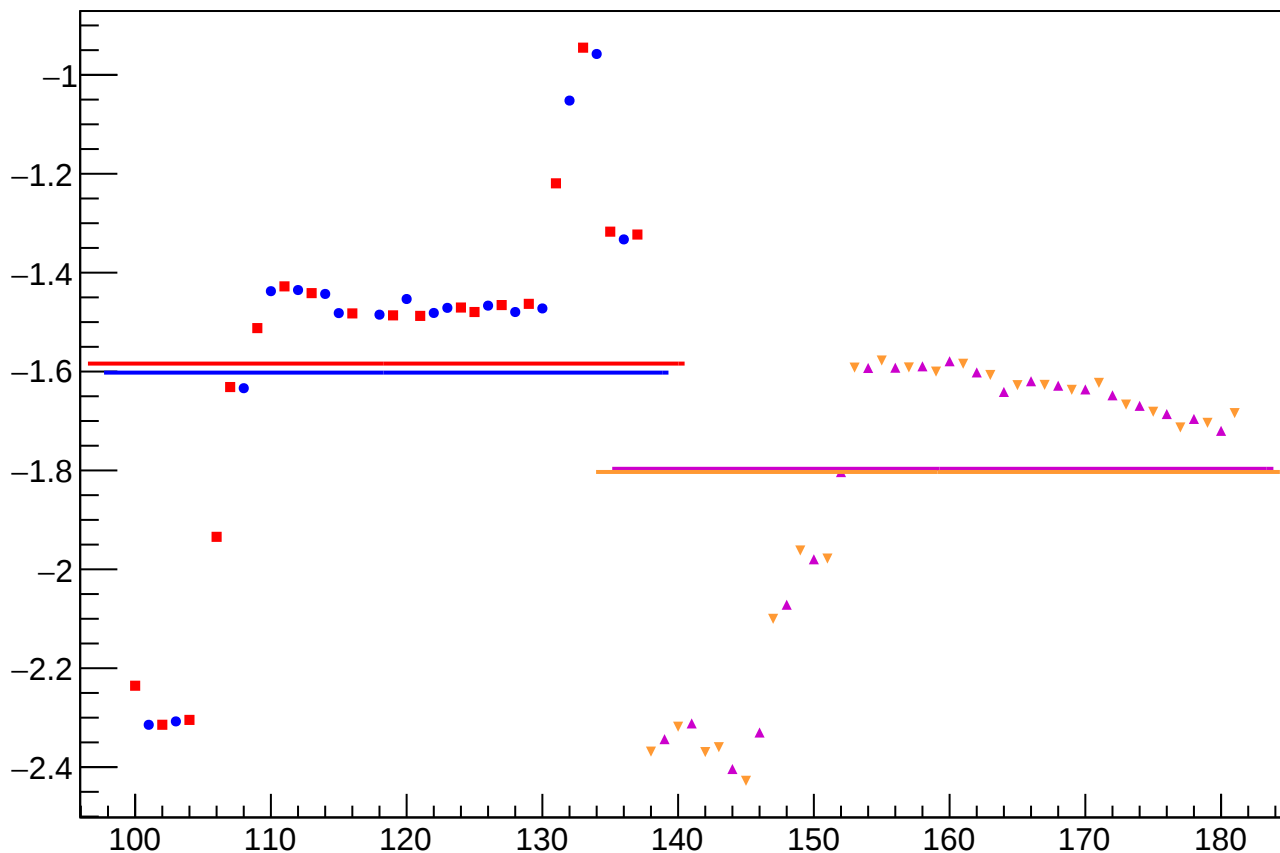
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 156621.0/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:235522.7/37

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:292115.4/41

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 527856.5/79

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.602+/-0.000 χ^2/NDF : 140170767010.0/16

Left Out: -1.803+/-0.000 χ^2/NDF : 179248367781.1/22

Right Out: -1.584+/-0.000 χ^2/NDF : 143827090276.5/18

Left In: -1.797+/-0.000 χ^2/NDF : 158095070334.8/20

Left: -1.800+/-0.000 χ^2/NDF : 337387745209.9/43

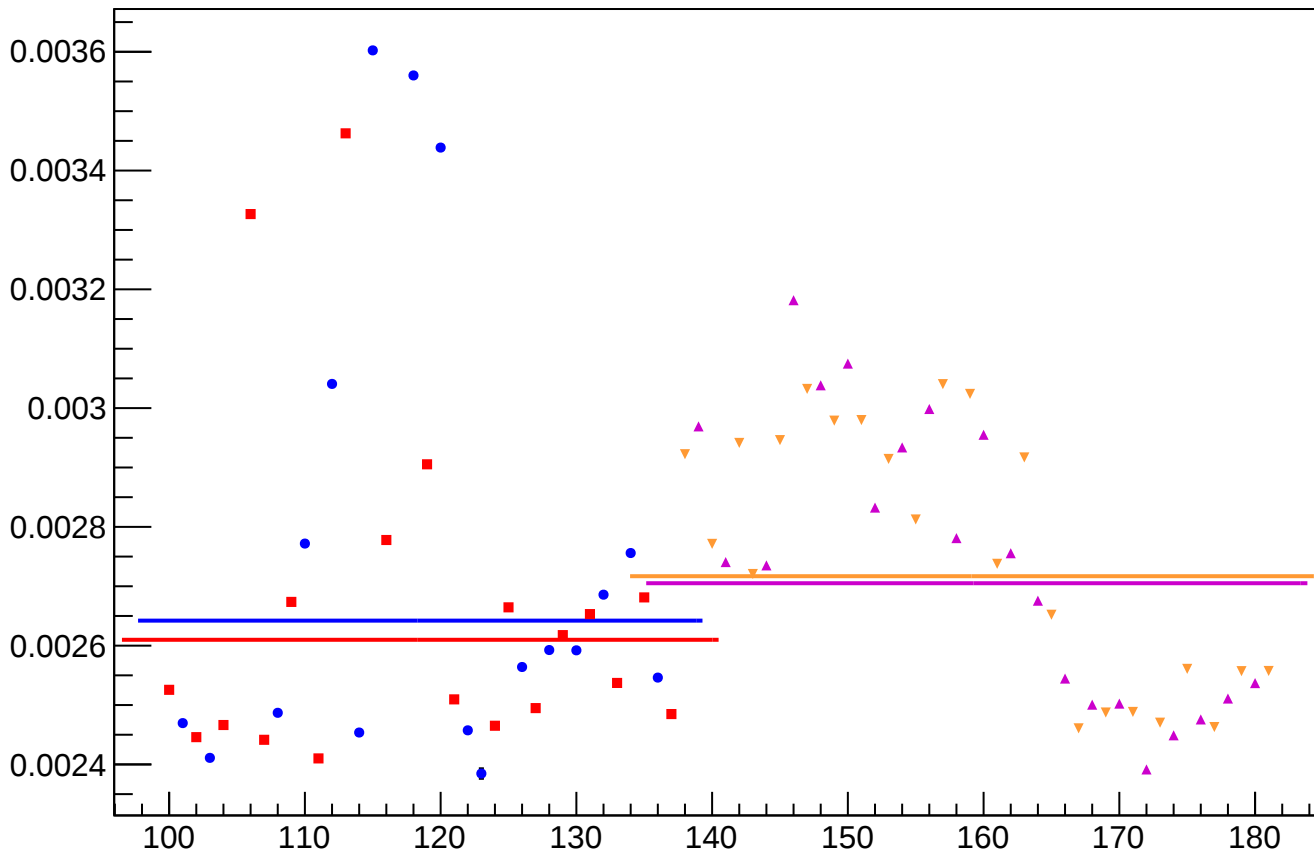
Right: -1.593+/-0.000 χ^2/NDF : 284153928526.3/35

In: -1.739+/-0.000 χ^2/NDF : 322158569792.8/37

Out: -1.736+/-0.000 χ^2/NDF : 355766384617.0/41

All: -1.738+/-0.000 χ^2/NDF : 677936141268.1

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 151919.2/16

Left Out: 0.003+/-0.000 χ^2/NDF :199473.8/22

Right Out: 0.003+/-0.000 χ^2/NDF : 104781.3/18

Left In: 0.003+/-0.000 χ^2/NDF :218989.3/20

Left: 0.003+/-0.000 χ^2/NDF : 418768.5/43

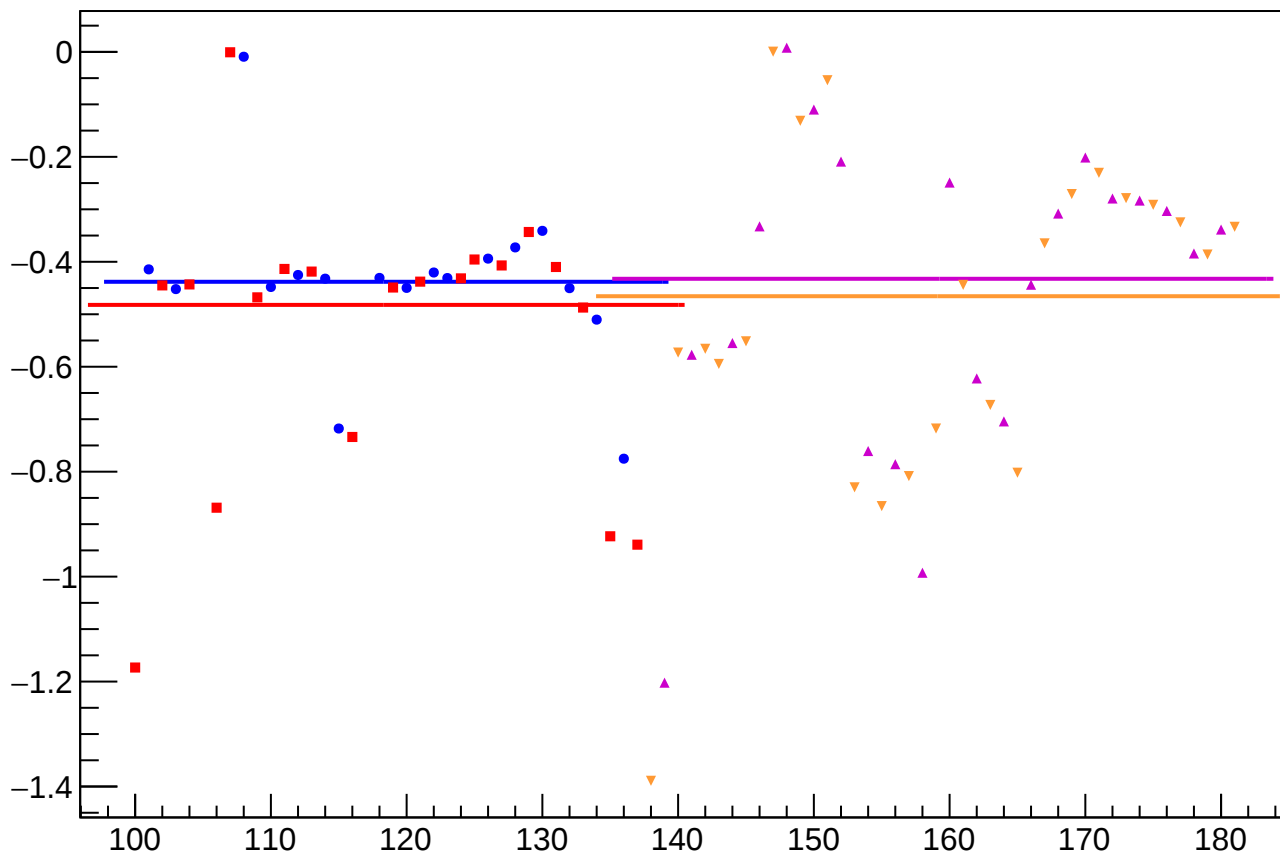
Right: 0.003+/-0.000 χ^2/NDF : 257674.4/35

In: 0.003+/-0.000 χ^2/NDF :375916.5/37

Out: 0.003+/-0.000 χ^2/NDF :319857.3/41

All: 0.003+/-0.000 χ^2/NDF : 695787.4/79

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.438 $\pm$ 0.000 χ^2/NDF : 1461198978.4/16

Left Out: -0.466 $\pm$ 0.000 χ^2/NDF : 9768533350.7/22

Right Out: -0.482 $\pm$ 0.000 χ^2/NDF : 2693383941.7/18

Left In: -0.432 $\pm$ 0.000 χ^2/NDF : 8347605597.1/20

Left: -0.449 $\pm$ 0.000 χ^2/NDF : 18176390263.2/43

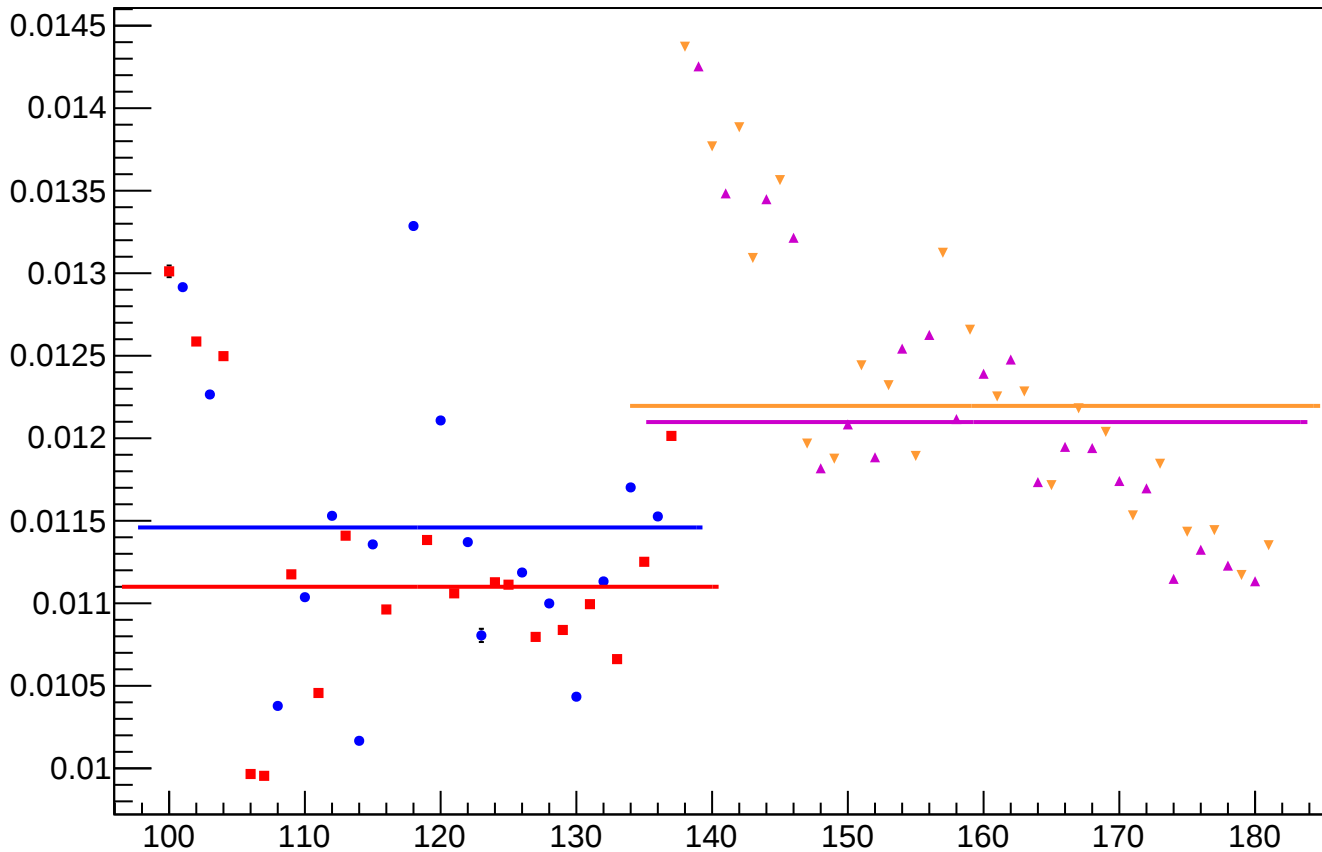
Right: -0.462 $\pm$ 0.000 χ^2/NDF : 4205367960.5/35

In: -0.434 $\pm$ 0.000 χ^2/NDF : 9809900098.7/37

Out: -0.471 $\pm$ 0.000 χ^2/NDF : 12472120008.7/41

All: -0.453 $\pm$ 0.000 χ^2/NDF : 22392355689.2/41

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 64588.0/16

Left Out: 0.012+/-0.000 χ^2/NDF :139083.0/22

Right Out: 0.011+/-0.000 χ^2/NDF : 56096.3/18

Left In: 0.012+/-0.000 χ^2/NDF :126275.7/20

Left: 0.012+/-0.000 χ^2/NDF : 266406.7/43

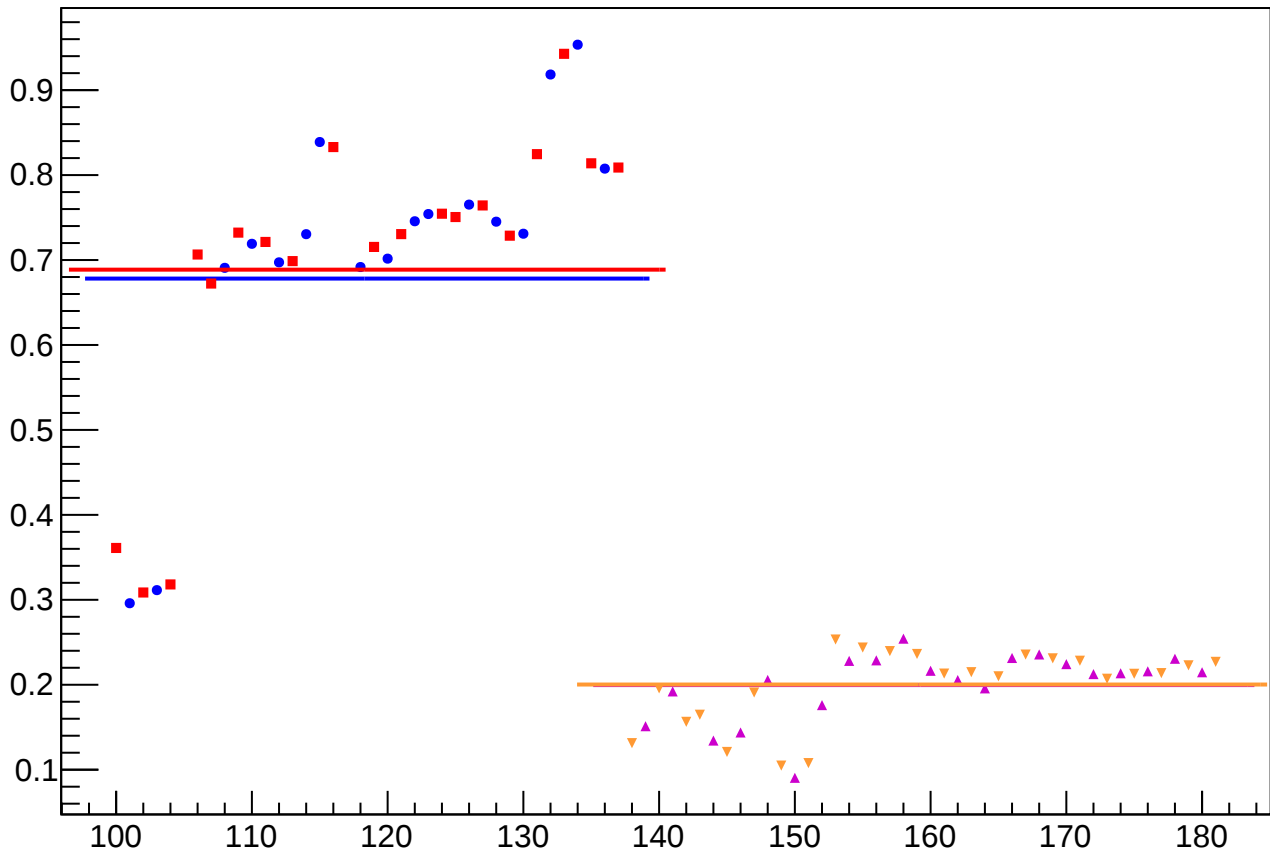
Right: 0.011+/-0.000 χ^2/NDF : 127449.6/35

In: 0.012+/-0.000 χ^2/NDF :218307.2/37

Out: 0.012+/-0.000 χ^2/NDF :284907.4/41

All: 0.012+/-0.000 χ^2/NDF : 503949.8/79

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000 χ^2/NDF : 38485337866.0/16

Left Out: 0.200+/-0.000 χ^2/NDF : 6923023475.3/22

Right Out: 0.689+/-0.000 χ^2/NDF : 35296354242.4/18

Left In: 0.200+/-0.000 χ^2/NDF : 5562159440.8/20

Left: 0.200+/-0.000 χ^2/NDF : 12485966787.3/43

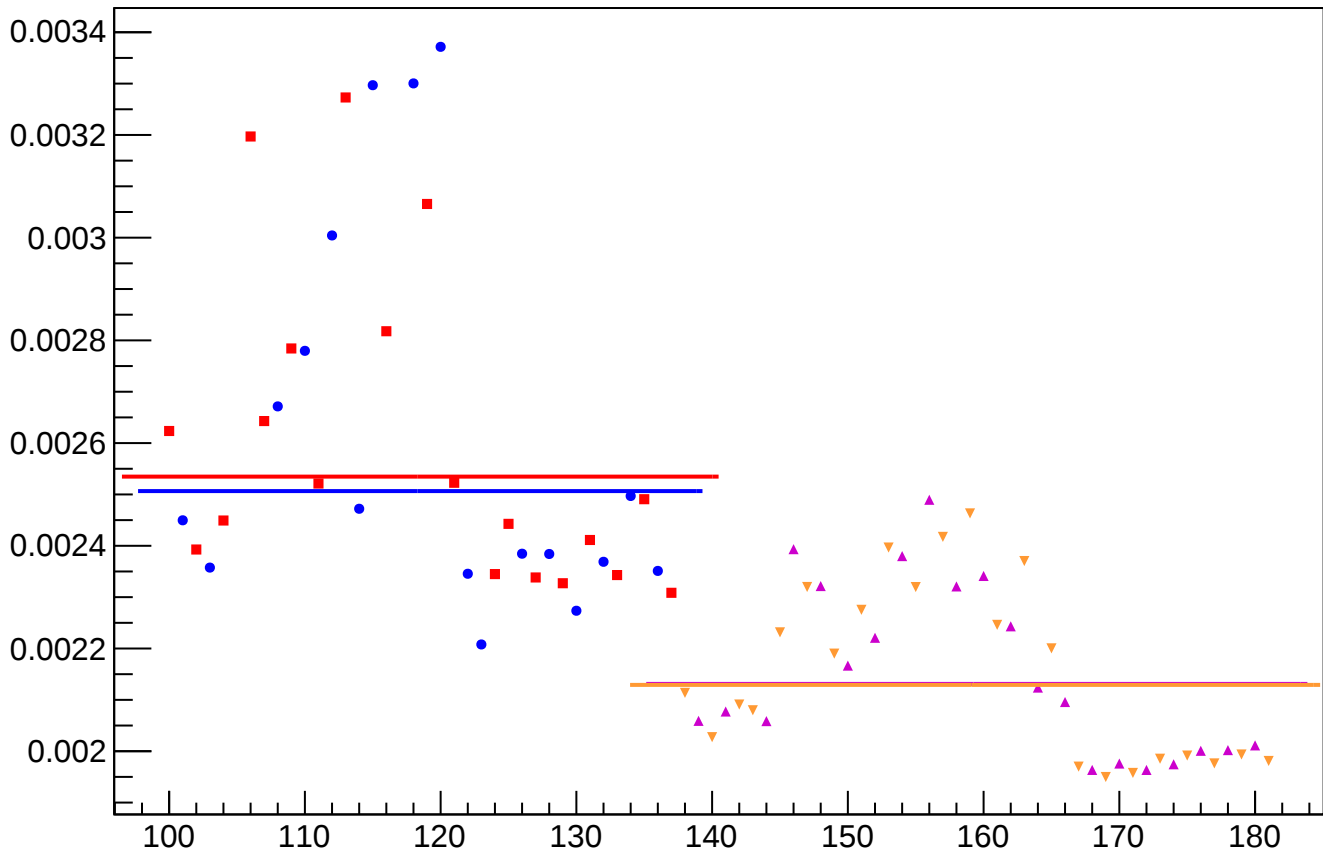
Right: 0.683+/-0.000 χ^2/NDF : 73838176834.0/35

In: 0.306+/-0.000 χ^2/NDF : 224070140666.9/37

Out: 0.306+/-0.000 χ^2/NDF : 236677148137.7/41

All: 0.306+/-0.000 χ^2/NDF : 460747340854.0

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 174398.1/16

Left Out: 0.002+/-0.000 χ^2/NDF :205733.5/22

Right Out: 0.003+/-0.000 χ^2/NDF : 131675.7/18

Left In: 0.002+/-0.000 χ^2/NDF :176346.4/20

Left: 0.002+/-0.000 χ^2/NDF : 382093.0/43

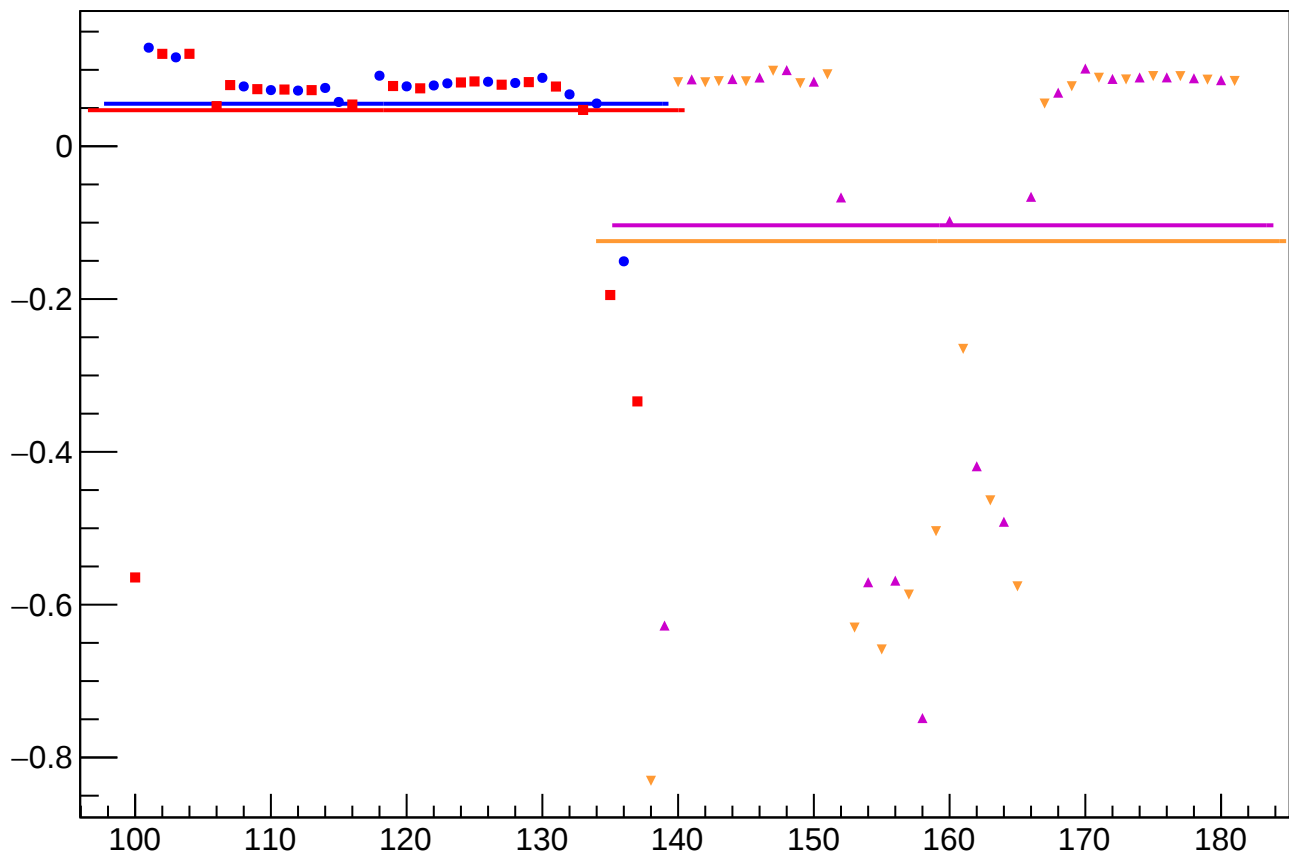
Right: 0.003+/-0.000 χ^2/NDF : 306887.9/35

In: 0.002+/-0.000 χ^2/NDF :572391.1/37

Out: 0.002+/-0.000 χ^2/NDF :605587.9/41

All: 0.002+/-0.000 χ^2/NDF : 1178003.6/79

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 422754930.4/16

Left: -0.114+/-0.000

χ^2/NDF : 24152860589.2/43

Left Out: -0.124+/-0.000

χ^2/NDF : 13336413104.4/22

Right: 0.051+/-0.000

χ^2/NDF : 1244662333.3/35

Right Out: 0.047+/-0.000

χ^2/NDF : 819330612.8/18

In: -0.049+/-0.000

χ^2/NDF : 12333624610.1/37

Out: -0.062+/-0.000

χ^2/NDF : 15604959098.6/41

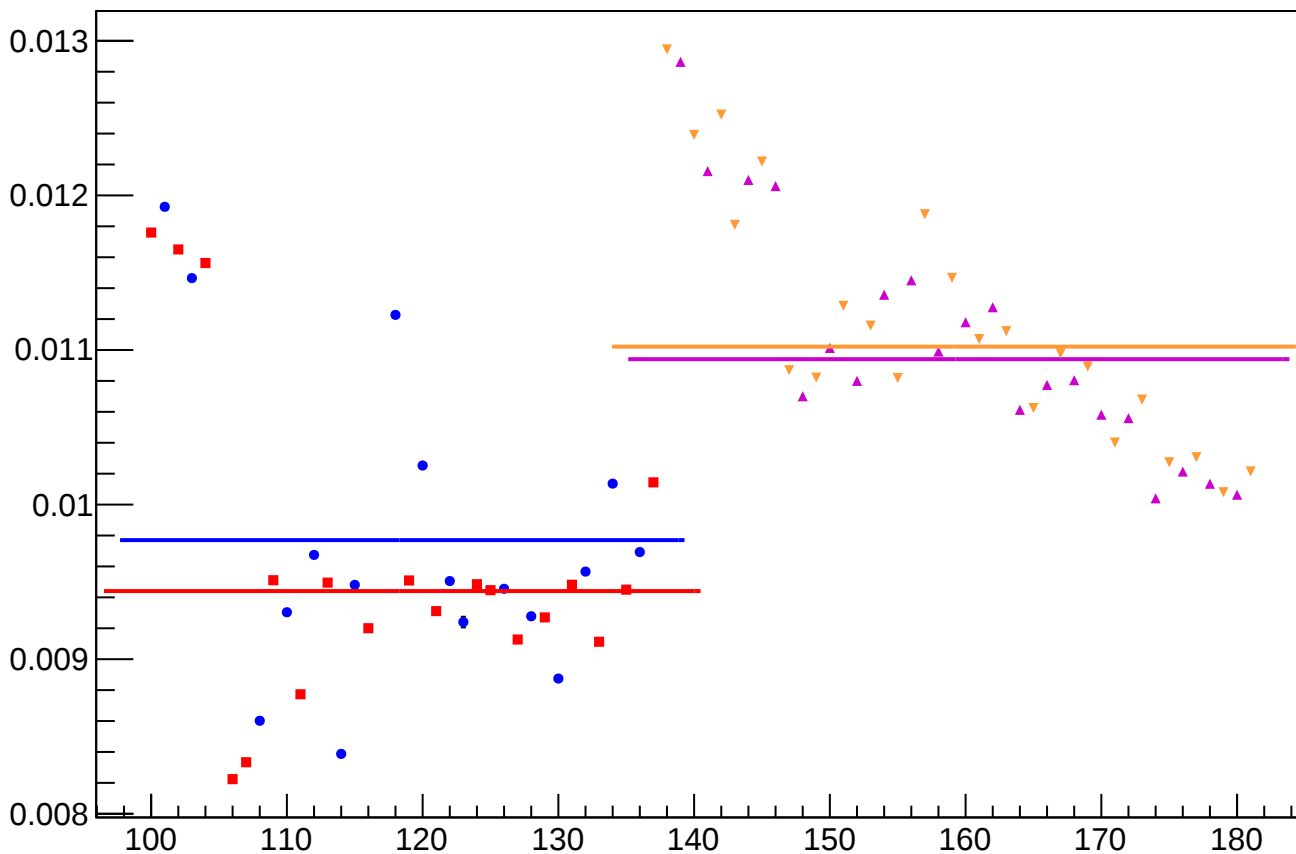
Left In: -0.103+/-0.000

χ^2/NDF : 10787736363.9/20

All: -0.056+/-0.000

χ^2/NDF : 27955931219.2/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 116013.9/16

Left Out: 0.011+/-0.000 χ^2/NDF :138991.1/22

Right Out: 0.009+/-0.000 χ^2/NDF : 110651.6/18

Left In: 0.011+/-0.000 χ^2/NDF :128450.5/20

Left: 0.011+/-0.000 χ^2/NDF : 268319.6/43

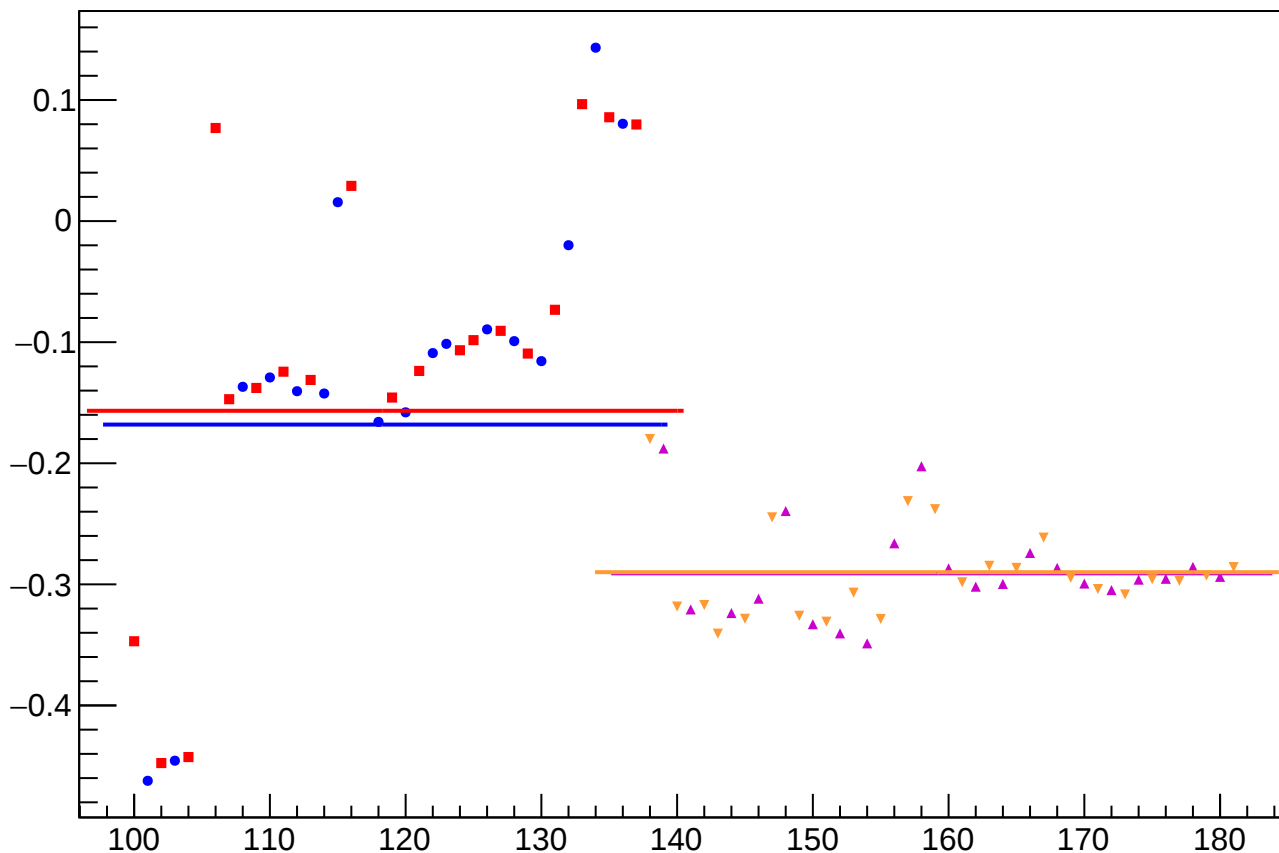
Right: 0.010+/-0.000 χ^2/NDF : 234461.4/35

In: 0.011+/-0.000 χ^2/NDF :366062.4/37

Out: 0.010+/-0.000 χ^2/NDF :496421.7/41

All: 0.010+/-0.000 χ^2/NDF : 864198.6/79

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.168+/-0.000

χ^2/NDF : 12330177160.8/16

Left: -0.290+/-0.000

χ^2/NDF : 5984329189.3/43

Left Out: -0.290+/-0.000

χ^2/NDF : 2859318767.3/22

Right: -0.162+/-0.000

χ^2/NDF : 23382079796.3/35

Right Out: -0.157+/-0.000

χ^2/NDF : 11031837915.5/18

In: -0.275+/-0.000

χ^2/NDF : 19541260828.6/37

Out: -0.274+/-0.000

χ^2/NDF : 18698665396.4/41

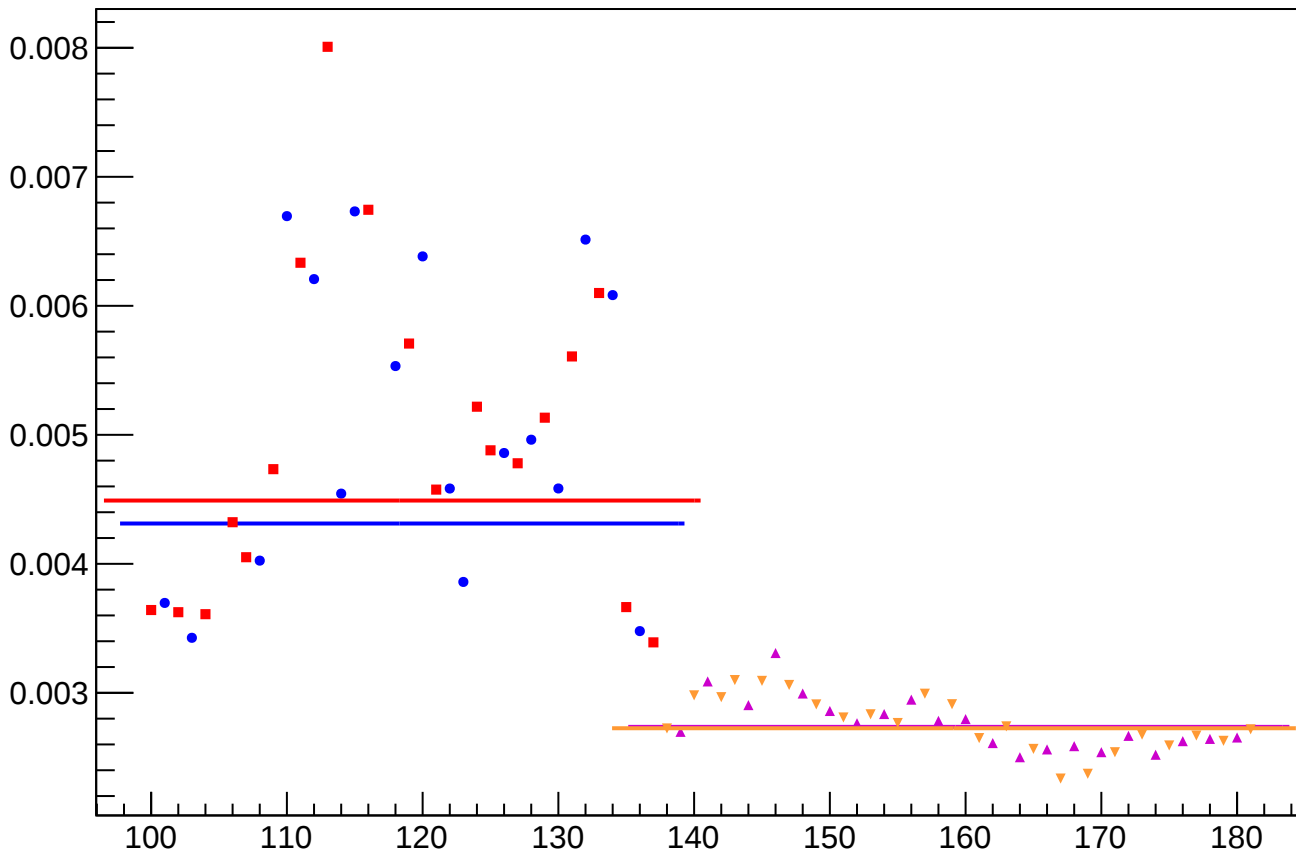
Left In: -0.291+/-0.000

χ^2/NDF : 3123970607.7/20

All: -0.274+/-0.000

χ^2/NDF : 38241512813.3/74

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 618348.9/16

Left Out: 0.003+/-0.000 χ^2/NDF :198826.5/22

Right Out: 0.004+/-0.000 χ^2/NDF : 639258.5/18

Left In: 0.003+/-0.000 χ^2/NDF :144703.8/20

Left: 0.003+/-0.000 χ^2/NDF : 343774.5/43

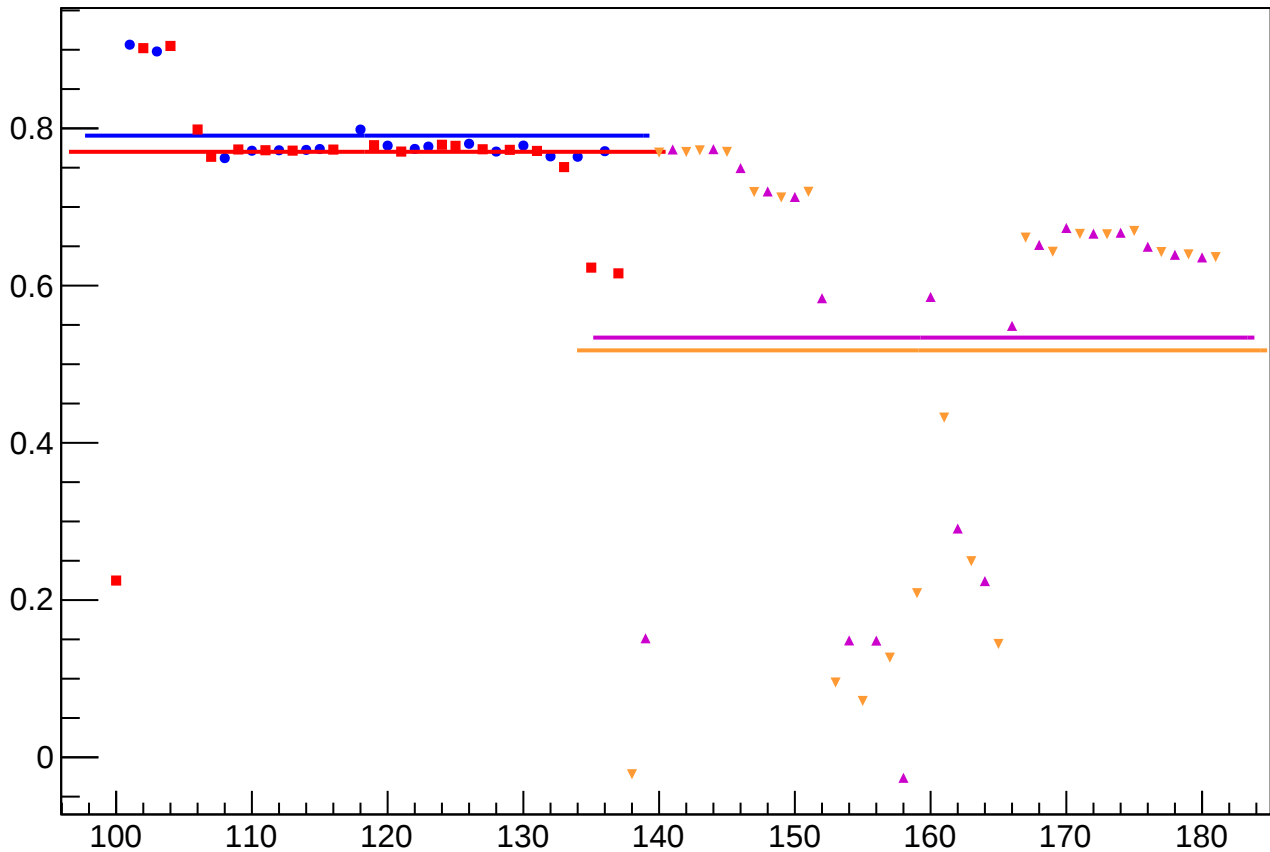
Right: 0.004+/-0.000 χ^2/NDF : 1267420.4/35

In: 0.003+/-0.000 χ^2/NDF :2108405.5/37

Out: 0.003+/-0.000 χ^2/NDF :2524386.8/41

All: 0.003+/-0.000 χ^2/NDF : 4632802.4/79

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.791 $\pm$ 0.000 χ^2 /NDF: 106680493.2/16

Left Out: 0.518 $\pm$ 0.000 χ^2 /NDF: 9480653183.0/22

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 375430167.7/18

Left In: 0.534 $\pm$ 0.000 χ^2 /NDF: 7781930970.5/20

Left: 0.526 $\pm$ 0.000 χ^2 /NDF: 17281202259.9/43

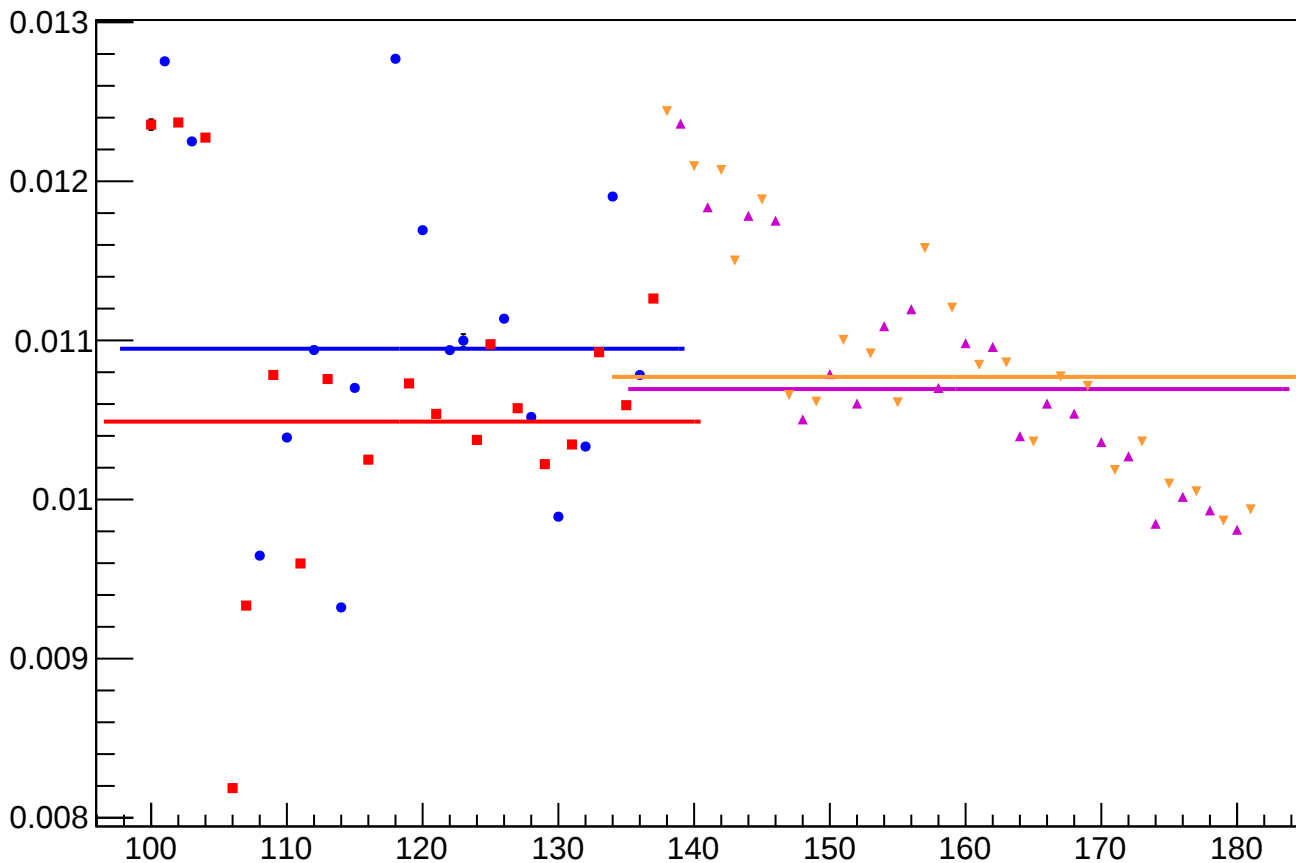
Right: 0.780 $\pm$ 0.000 χ^2 /NDF: 494308734.2/35

In: 0.606 $\pm$ 0.000 χ^2 /NDF: 10432945506.3/37

Out: 0.594 $\pm$ 0.000 χ^2 /NDF: 12638043259.6/41

All: 0.600 $\pm$ 0.000 χ^2 /NDF: 23085132730.9/71

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 98019.2/16

Left Out: 0.011+/-0.000 χ^2/NDF : 129291.7/22

Right Out: 0.010+/-0.000 χ^2/NDF : 119502.0/18

Left In: 0.011+/-0.000 χ^2/NDF : 118878.0/20

Left: 0.011+/-0.000 χ^2/NDF : 248992.9/43

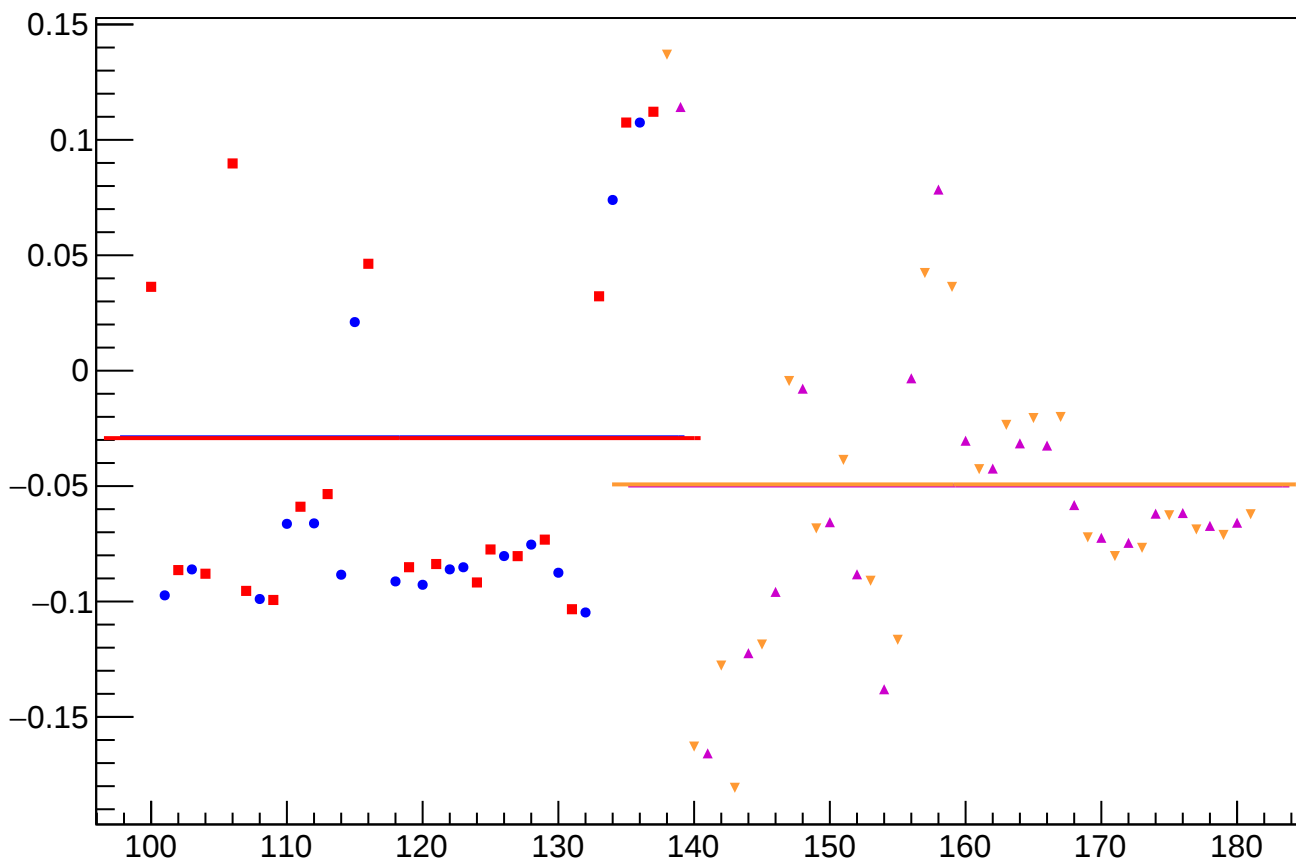
Right: 0.011+/-0.000 χ^2/NDF : 229626.3/35

In: 0.011+/-0.000 χ^2/NDF : 221852.0/37

Out: 0.011+/-0.000 χ^2/NDF : 255681.2/41

All: 0.011+/-0.000 χ^2/NDF : 478790.5/79

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -0.029+/-0.000

χ^2/NDF : 2444911330.9/16

Left: -0.049+/-0.000

χ^2/NDF : 13289859974.9/43

Left Out: -0.049+/-0.000

χ^2/NDF : 7186973240.0/22

Right: -0.029+/-0.000

χ^2/NDF : 4565297950.1/35

Right Out: -0.029+/-0.000

χ^2/NDF : 2120368017.0/18

In: -0.047+/-0.000

χ^2/NDF : 8660012340.3/37

Out: -0.047+/-0.000

χ^2/NDF : 9408631846.1/41

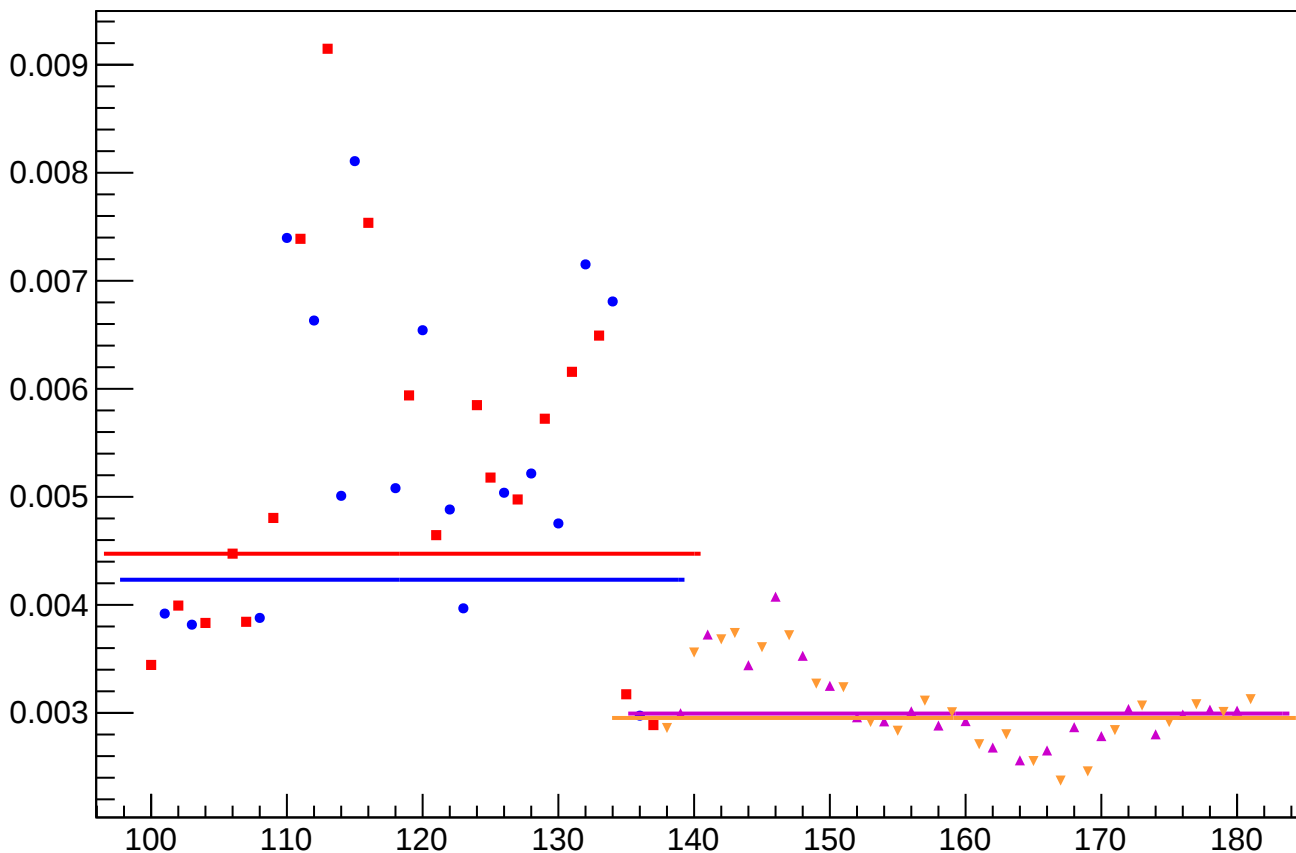
Left In: -0.050+/-0.000

χ^2/NDF : 6102687795.2/20

All: -0.047+/-0.000

χ^2/NDF : 18068644750.7/180

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 877339.5/16

Left Out: 0.003+/-0.000 χ^2/NDF : 472927.7/22

Right Out: 0.004+/-0.000 χ^2/NDF : 969342.1/18

Left In: 0.003+/-0.000 χ^2/NDF : 316460.2/20

Left: 0.003+/-0.000 χ^2/NDF : 792323.3/43

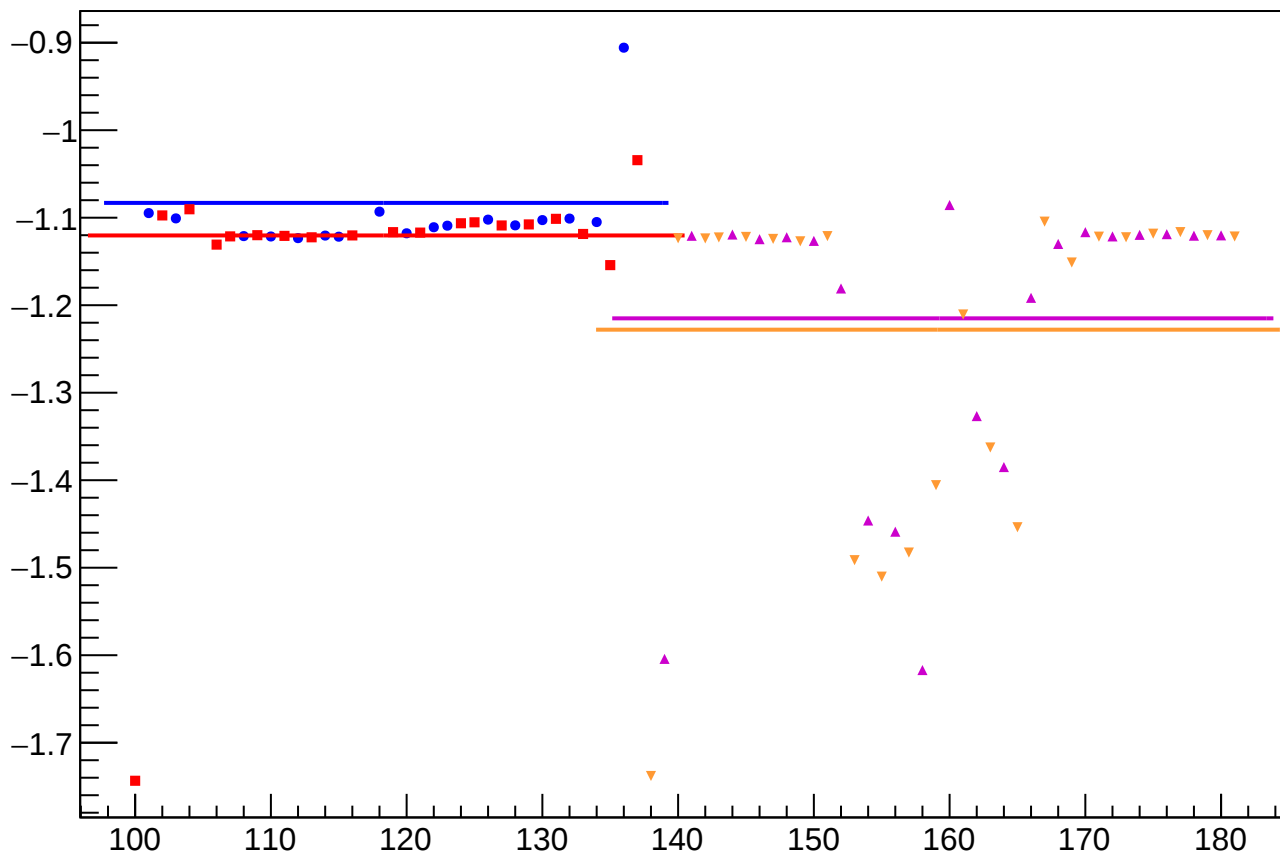
Right: 0.004+/-0.000 χ^2/NDF : 1863934.2/35

In: 0.003+/-0.000 χ^2/NDF : 1985513.8/37

Out: 0.003+/-0.000 χ^2/NDF : 2607011.4/41

All: 0.003+/-0.000 χ^2/NDF : 4593580.1/79

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.083+/-0.000 χ^2/NDF : 202851874.4/16

Left Out: -1.228+/-0.000 χ^2/NDF : 5167539395.6/22

Right Out: -1.120+/-0.000 χ^2/NDF : 220508408.4/18

Left In: -1.215+/-0.000 χ^2/NDF : 4419215663.5/20

Left: -1.222+/-0.000 χ^2/NDF : 9601394157.8/43

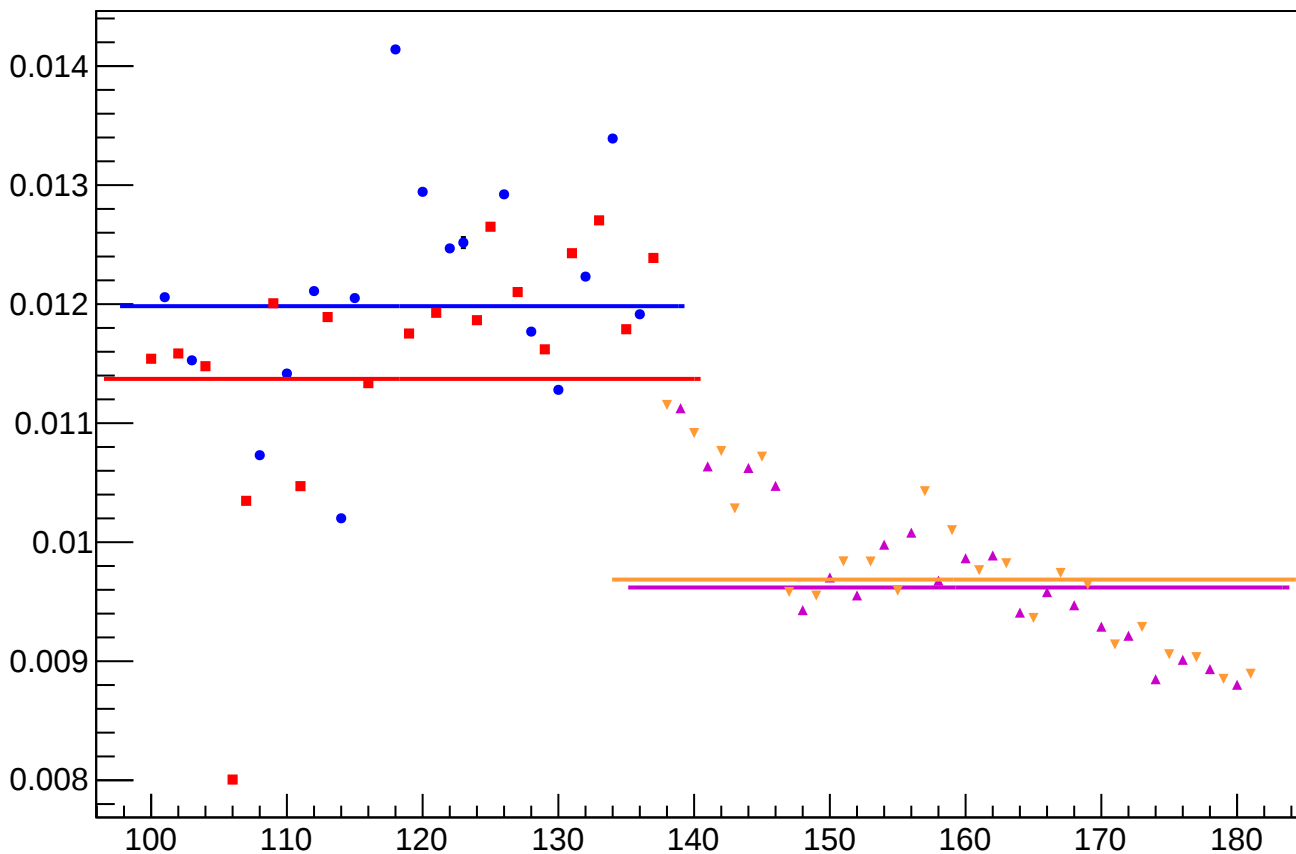
Right: -1.103+/-0.000 χ^2/NDF : 456843121.6/35

In: -1.188+/-0.000 χ^2/NDF : 5238442257.4/37

Out: -1.203+/-0.000 χ^2/NDF : 5860651676.2/41

All: -1.196+/-0.000 χ^2/NDF : 11127001210.6/78

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 58835.2/16

Left Out: 0.010+/-0.000 χ^2/NDF :132609.6/22

Right Out: 0.011+/-0.000 χ^2/NDF : 152861.8/18

Left In: 0.010+/-0.000 χ^2/NDF :119637.2/20

Left: 0.010+/-0.000 χ^2/NDF : 253025.4/43

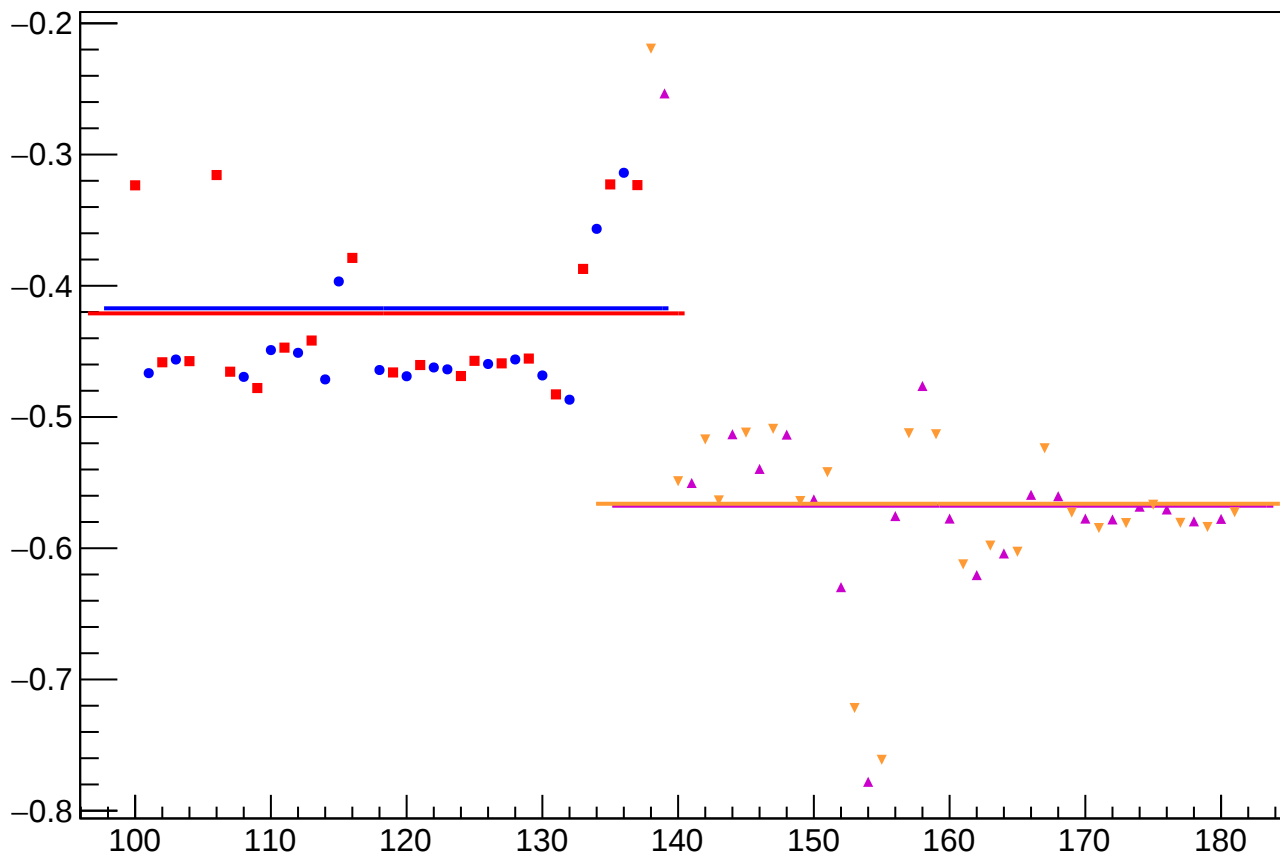
Right: 0.012+/-0.000 χ^2/NDF : 229751.2/35

In: 0.010+/-0.000 χ^2/NDF :574052.2/37

Out: 0.010+/-0.000 χ^2/NDF :517171.2/41

All: 0.010+/-0.000 χ^2/NDF : 1091579.3/79

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.417+/-0.000 χ^2/NDF : 2038520950.9/16

Left Out: -0.566+/-0.000 χ^2/NDF : 13358156513.0/22

Right Out: -0.421+/-0.000 χ^2/NDF : 1654624022.3/18

Left In: -0.568+/-0.000 χ^2/NDF : 10454010757.8/20

Left: -0.567+/-0.000 χ^2/NDF : 23813807971.3/43

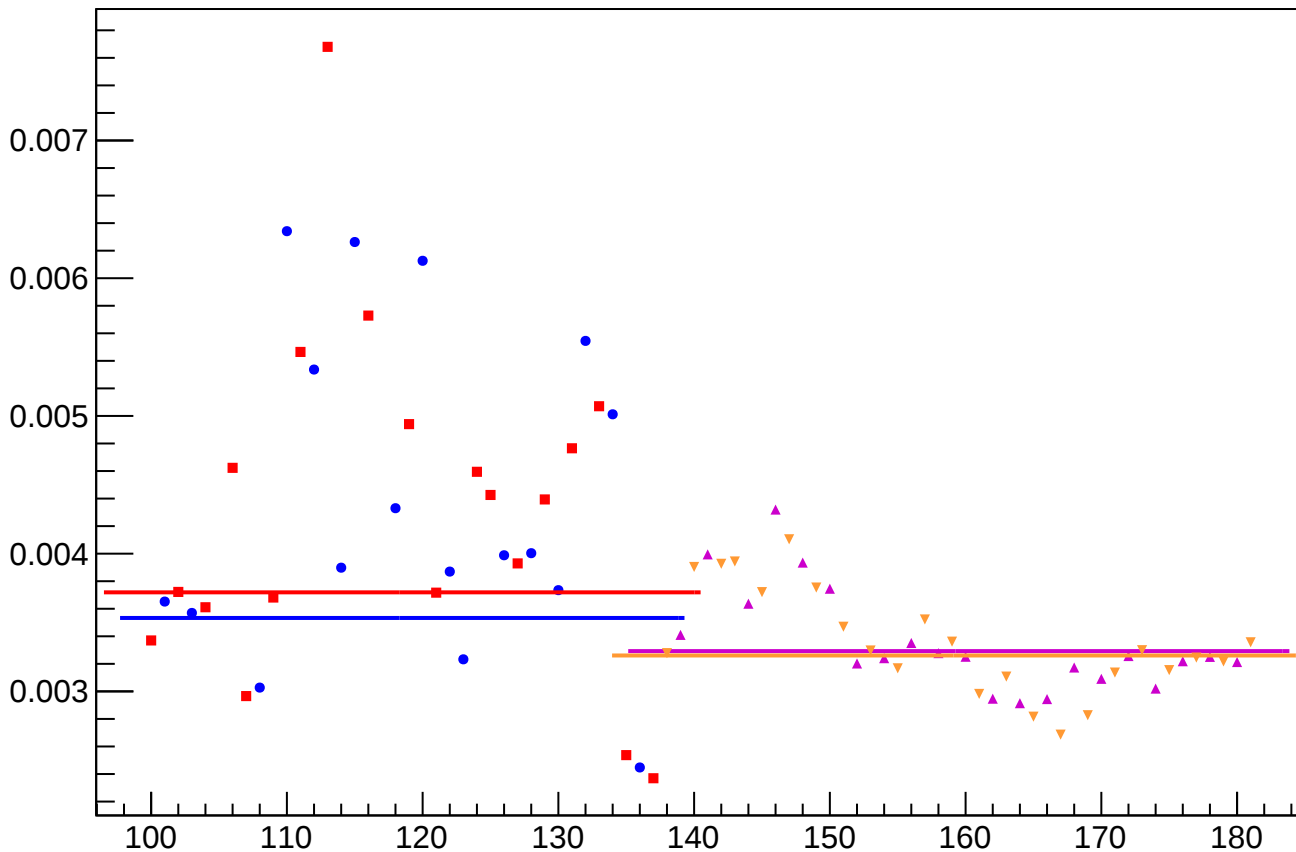
Right: -0.419+/-0.000 χ^2/NDF : 3696346160.6/35

In: -0.532+/-0.000 χ^2/NDF : 20000237779.9/37

Out: -0.535+/-0.000 χ^2/NDF : 21984546222.0/41

All: -0.533+/-0.000 χ^2/NDF : 41990995520.7/79

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2/NDF : 831496.7/16

Left Out: 0.003 $\pm$ 0.000 χ^2/NDF :376144.3/22

Right Out: 0.004 $\pm$ 0.000 χ^2/NDF : 884778.0/18

Left In: 0.003 $\pm$ 0.000 χ^2/NDF :278644.2/20

Left: 0.003 $\pm$ 0.000 χ^2/NDF : 656270.5/43

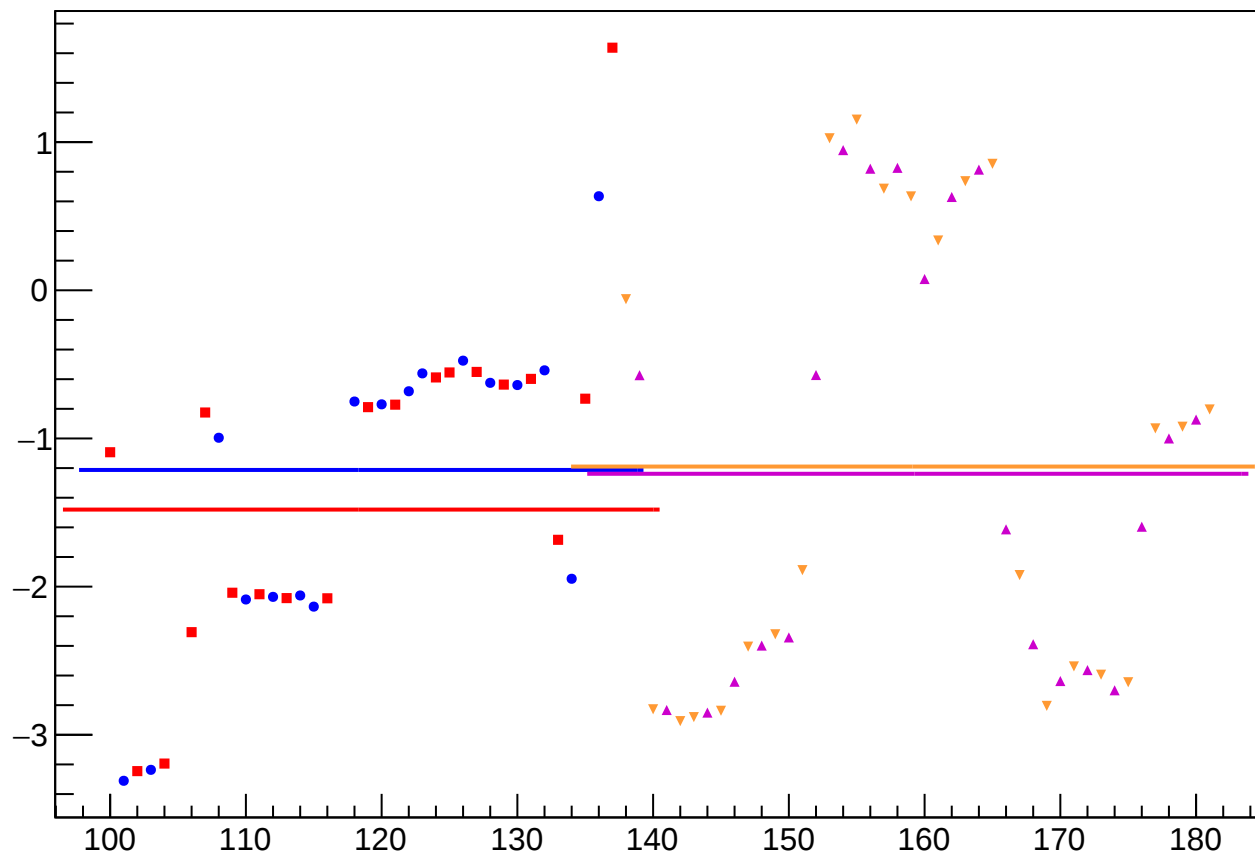
Right: 0.004 $\pm$ 0.000 χ^2/NDF : 1731087.2/35

In: 0.003 $\pm$ 0.000 χ^2/NDF :1148577.6/37

Out: 0.003 $\pm$ 0.000 χ^2/NDF :1400160.5/41

All: 0.003 $\pm$ 0.000 χ^2/NDF : 2548955.8/79

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.213+/-0.000 χ^2/NDF : 1991015908.7/16

Left Out: -1.190+/-0.000 χ^2/NDF : 6782368227.1/22

Right Out: -1.480+/-0.000 χ^2/NDF : 1576057924.8/18

Left In: -1.238+/-0.000 χ^2/NDF : 5558105057.3/20

Left: -1.213+/-0.000 χ^2/NDF : 12344135315.6/43

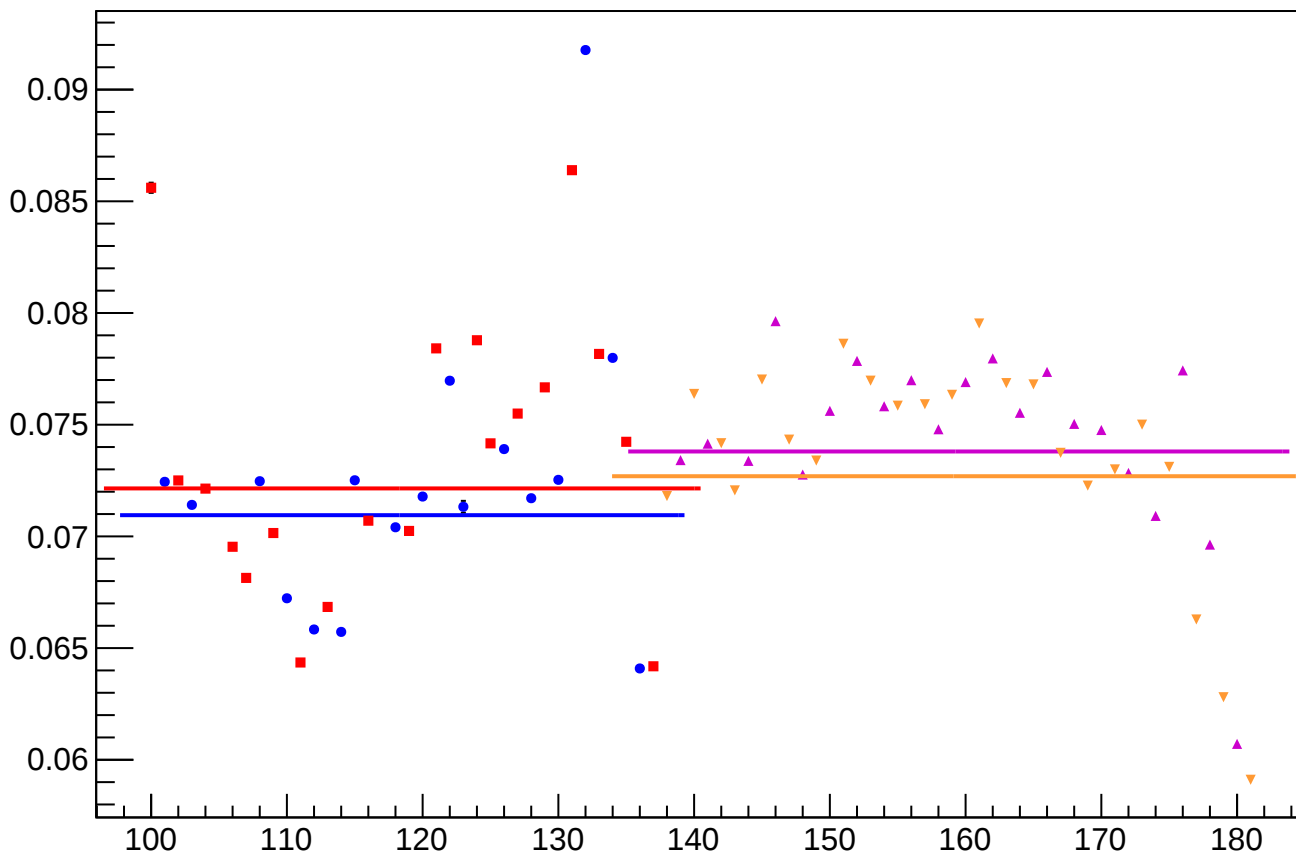
Right: -1.348+/-0.000 χ^2/NDF : 3614167453.1/35

In: -1.230+/-0.000 χ^2/NDF : 7549724148.2/37

Out: -1.274+/-0.000 χ^2/NDF : 8437978829.2/41

All: -1.253+/-0.000 χ^2/NDF : 15991954374.2/...

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.071+/-0.000 χ^2/NDF : 77148.7/16

Left Out: 0.073+/-0.000 χ^2/NDF :193026.4/22

Right Out: 0.072+/-0.000 χ^2/NDF : 69021.6/18

Left In: 0.074+/-0.000 χ^2/NDF :121641.2/20

Left: 0.073+/-0.000 χ^2/NDF : 318438.5/43

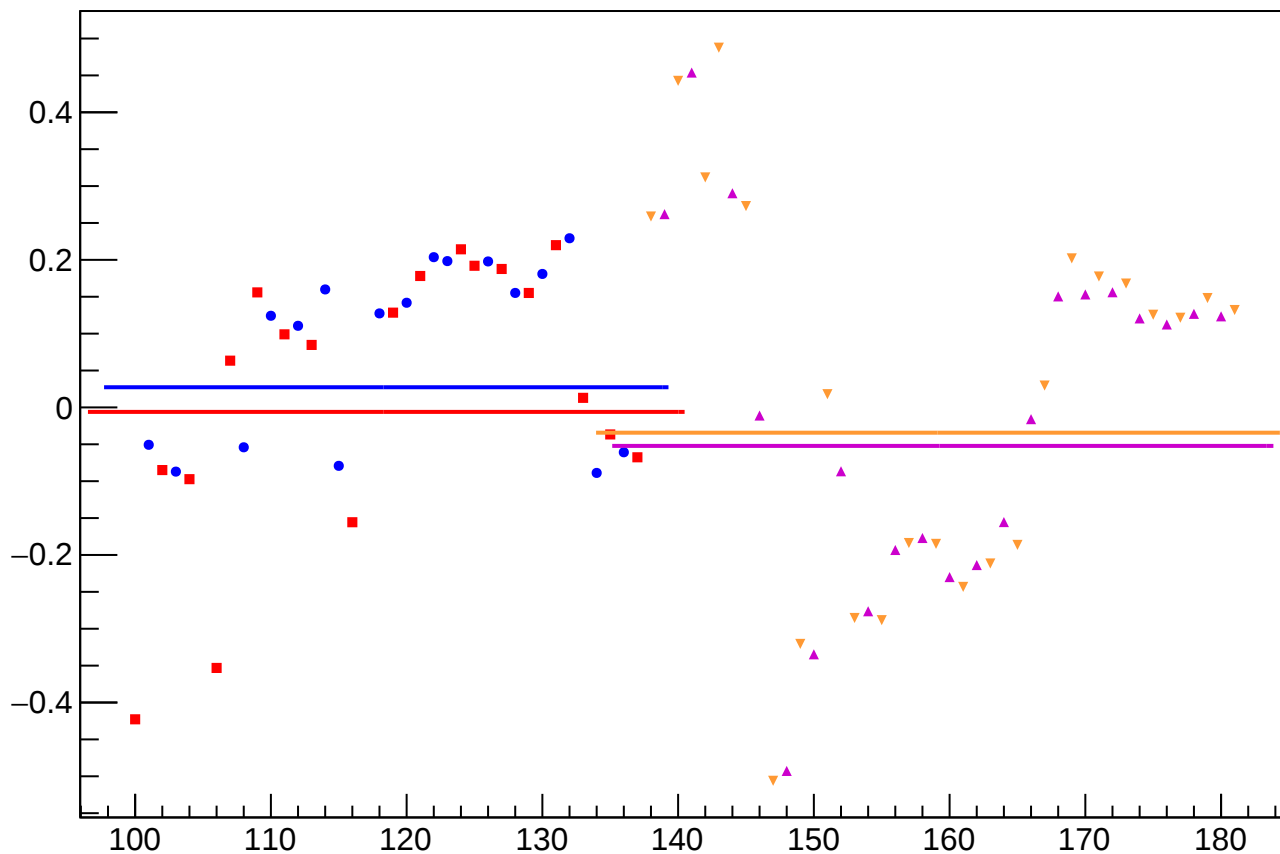
Right: 0.072+/-0.000 χ^2/NDF : 148058.9/35

In: 0.073+/-0.000 χ^2/NDF :213443.9/37

Out: 0.073+/-0.000 χ^2/NDF :262610.4/41

All: 0.073+/-0.000 χ^2/NDF : 476726.5/79

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 0.027+/-0.000

χ^2/NDF : 562065478.3/16

Left: -0.043+/-0.000

χ^2/NDF : 35053935812.7/43

Left Out: -0.034+/-0.000

χ^2/NDF : 19807014132.2/22

Right: 0.011+/-0.000

χ^2/NDF : 1791947690.0/35

Right Out: -0.006+/-0.000

χ^2/NDF : 1205303430.4/18

In: -0.043+/-0.000

χ^2/NDF : 15997777831.8/37

Left In: -0.052+/-0.000

χ^2/NDF : 15191401388.1/20

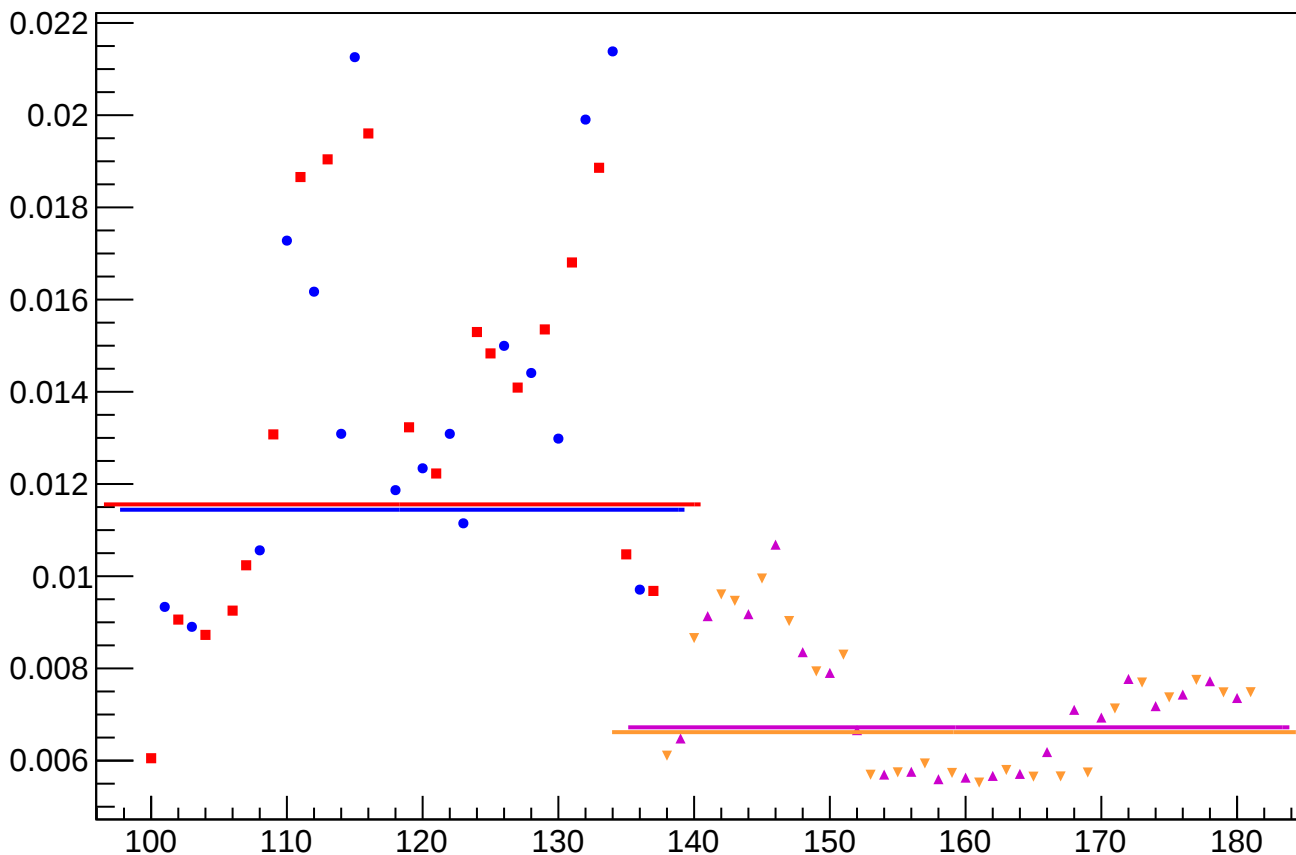
Out: -0.031+/-0.000

χ^2/NDF : 21043721097.9/41

All: -0.037+/-0.000

χ^2/NDF : 37068126394.7/77

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.000 χ^2 /NDF: 673738.1/16

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1083252.8/22

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 979298.5/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:895183.8/20

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 1982250.2/43

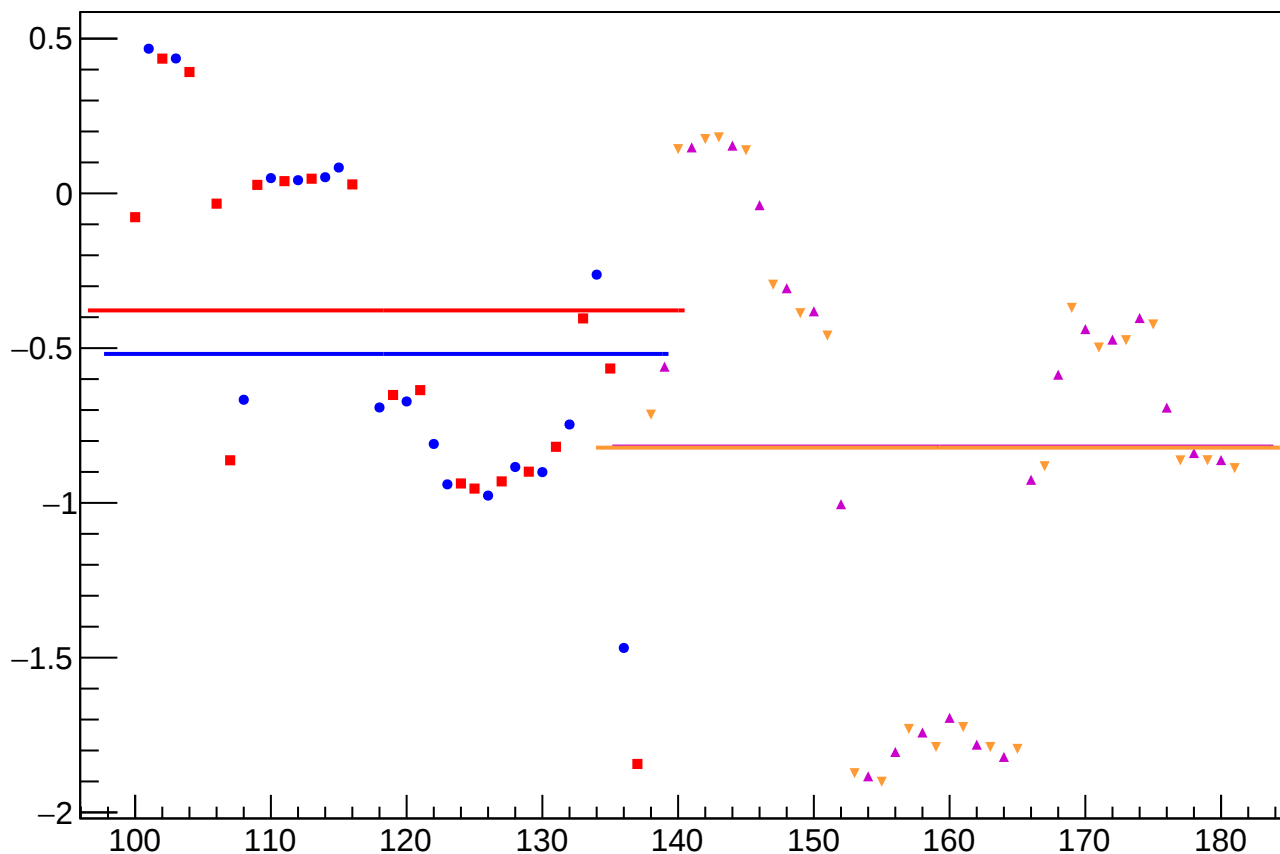
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 1653627.3/35

In: 0.007 $\pm$ 0.000 χ^2 /NDF:3291051.5/37

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:3991553.5/41

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 7288180.3/79

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.519+/-0.000 χ^2/NDF : 338707442.0/16

Left Out: -0.821+/-0.000 χ^2/NDF :1083217744.6/22

Right Out: -0.378+/-0.000 χ^2/NDF : 267921889.8/18

Left In: -0.818+/-0.000 χ^2/NDF :919567953.6/20

Left: -0.820+/-0.000 χ^2/NDF : 2002798955.2/43

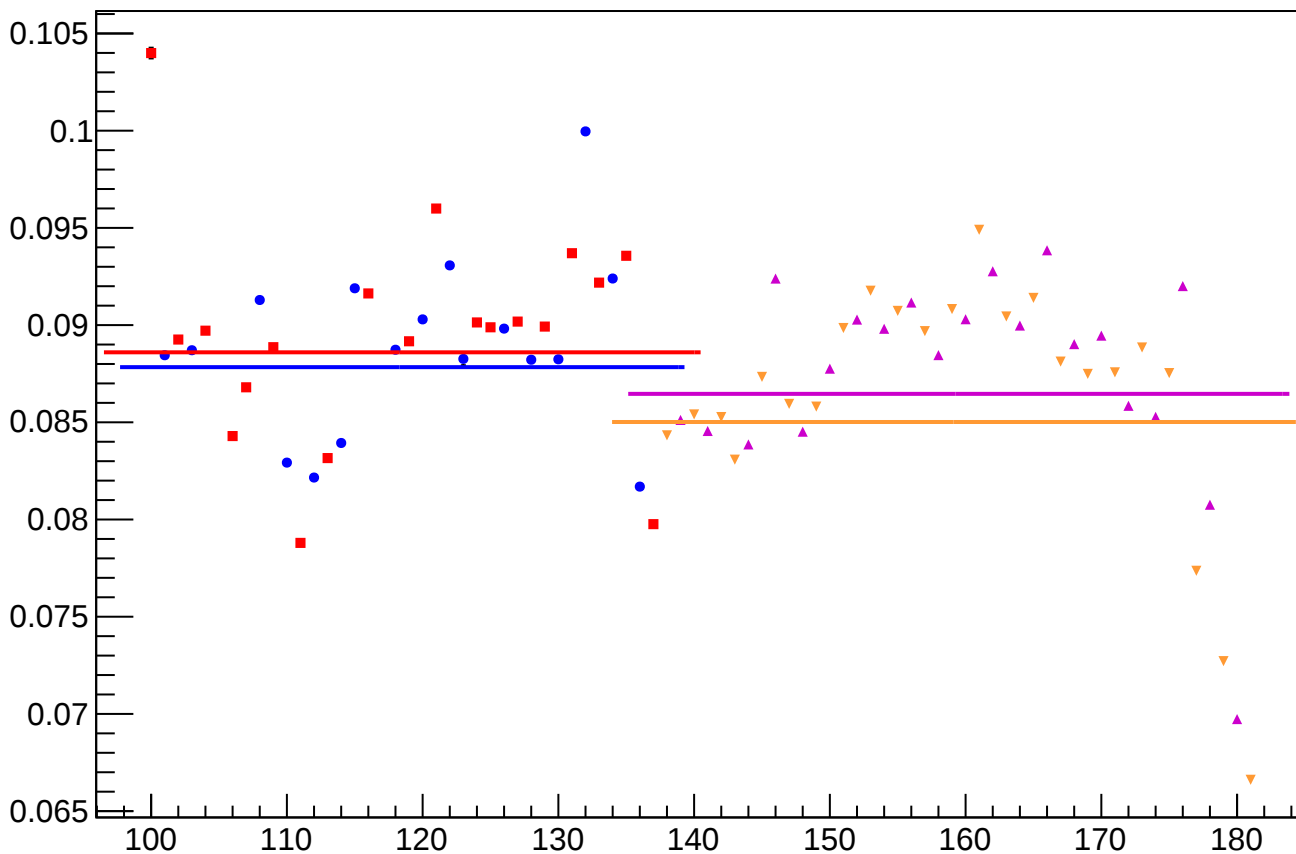
Right: -0.447+/-0.000 χ^2/NDF : 615340967.5/35

In: -0.732+/-0.000 χ^2/NDF :1313535587.5/37

Out: -0.700+/-0.000 χ^2/NDF :1479556802.3/41

All: -0.715+/-0.000 χ^2/NDF : 2794779382.1/7

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 34872.1/16

Left Out: 0.085 $\pm$ 0.000 χ^2 /NDF:254080.7/22

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 38932.4/18

Left In: 0.086 $\pm$ 0.000 χ^2 /NDF:157132.4/20

Left: 0.086 $\pm$ 0.000 χ^2 /NDF: 415952.0/43

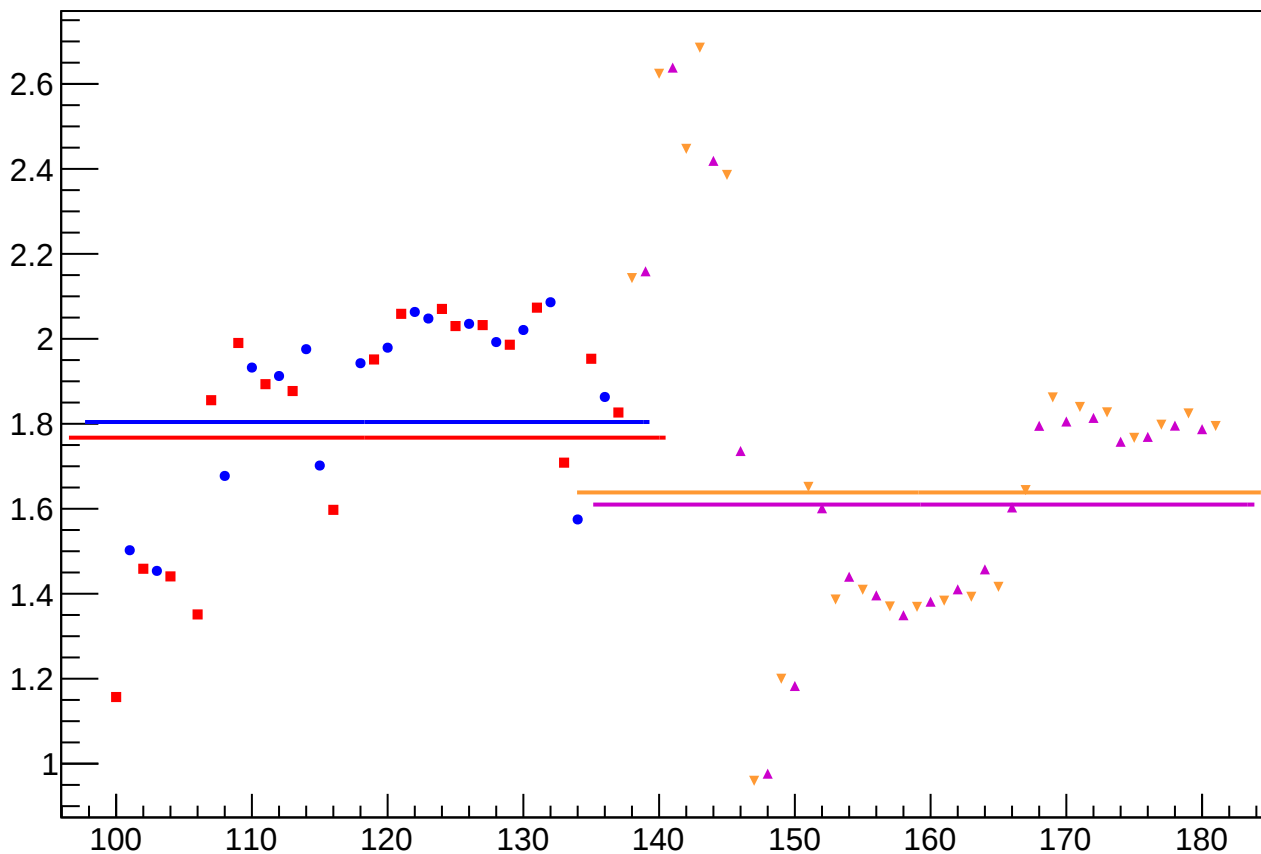
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 74317.5/35

In: 0.087 $\pm$ 0.000 χ^2 /NDF:194333.1/37

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:309796.7/41

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 506433.0/79

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.804+/-0.000 χ^2/NDF : 1156038618.5/16

Left Out: 1.638+/-0.000 χ^2/NDF : 25980910852.2/22

Right Out: 1.767+/-0.000 χ^2/NDF : 1715728859.6/18

Left In: 1.610+/-0.000 χ^2/NDF : 20282386006.8/20

Left: 1.625+/-0.000 χ^2/NDF : 46341087152.6/43

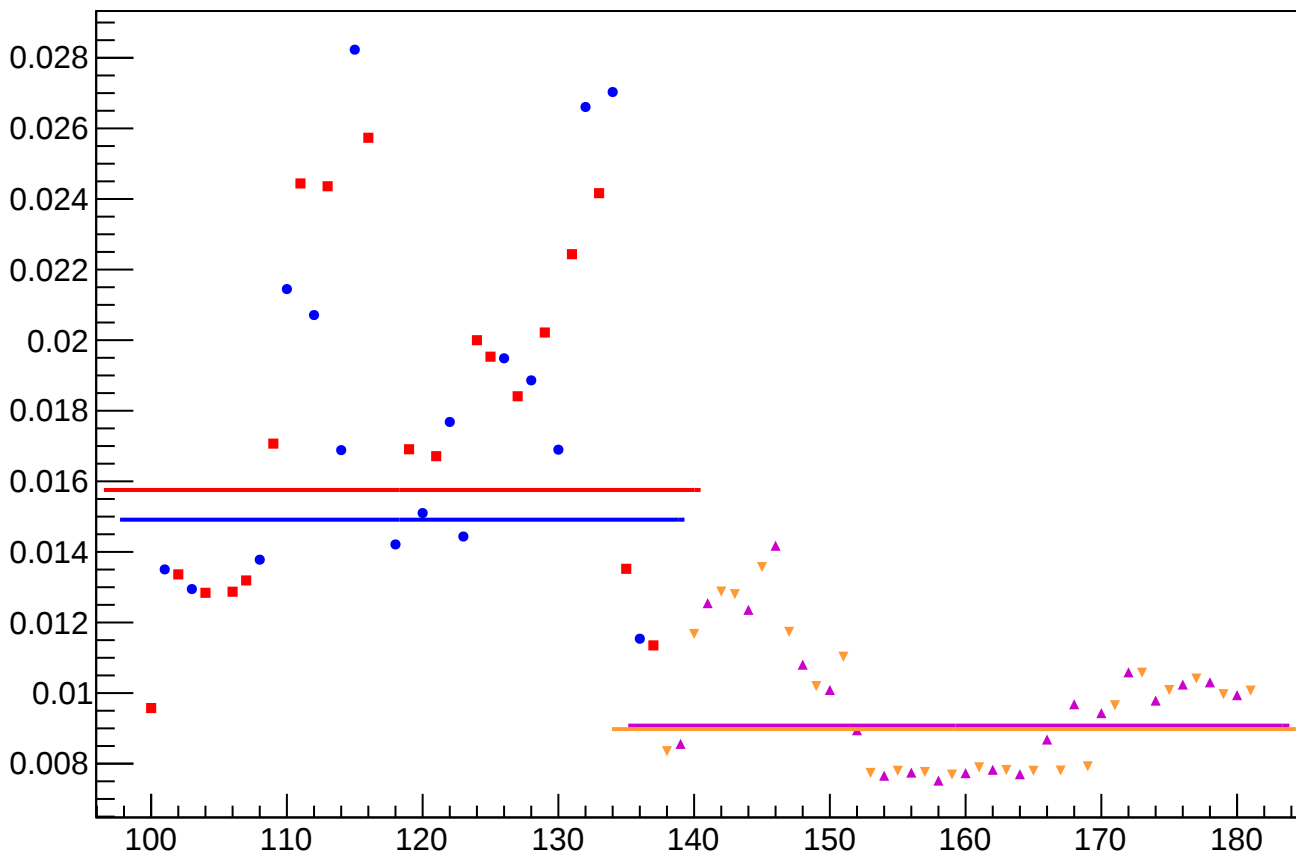
Right: 1.786+/-0.000 χ^2/NDF : 2888725719.4/35

In: 1.634+/-0.000 χ^2/NDF : 22291883040.5/37

Out: 1.652+/-0.000 χ^2/NDF : 28056483970.0/41

All: 1.643+/-0.000 χ^2/NDF : 50385409846.6/71

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 638037.3/16

Left Out: 0.009+/-0.000 χ^2/NDF :993746.4/22

Right Out: 0.016+/-0.000 χ^2/NDF : 770357.5/18

Left In: 0.009+/-0.000 χ^2/NDF :851020.3/20

Left: 0.009+/-0.000 χ^2/NDF : 1846632.5/43

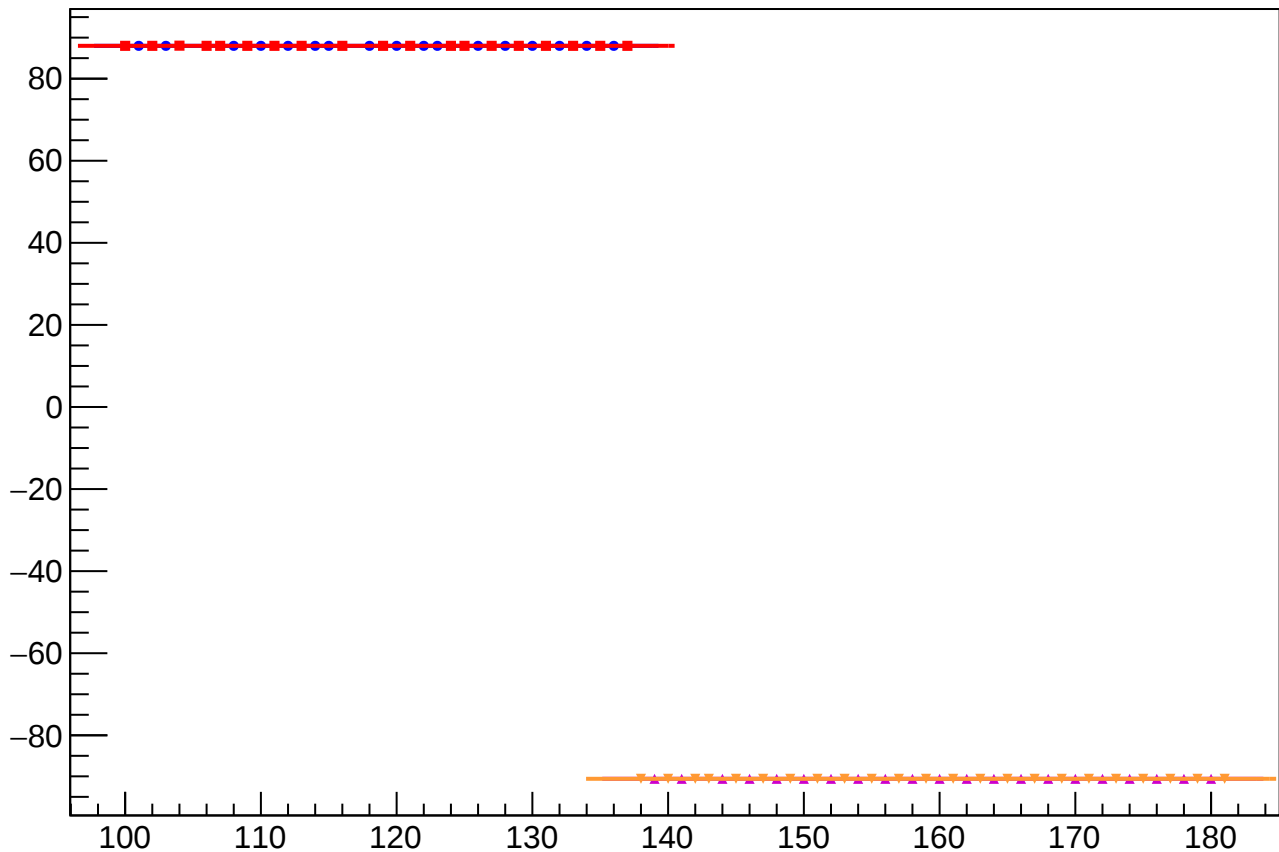
Right: 0.015+/-0.000 χ^2/NDF : 1426092.9/35

In: 0.010+/-0.000 χ^2/NDF :3028411.7/37

Out: 0.010+/-0.000 χ^2/NDF :3750842.6/41

All: 0.010+/-0.000 χ^2/NDF : 6780835.7/79

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 1547328.6/16

Left Out: -90.599+/-0.000 χ^2/NDF : 8501421.4/22

Right Out: 88.004+/-0.000 χ^2/NDF : 77529520773816998986447323136.0/18

Left In: -90.599+/-0.000 χ^2/NDF : 5822979.9/20

Left: -90.599+/-0.000 χ^2/NDF : 11200057.8/43

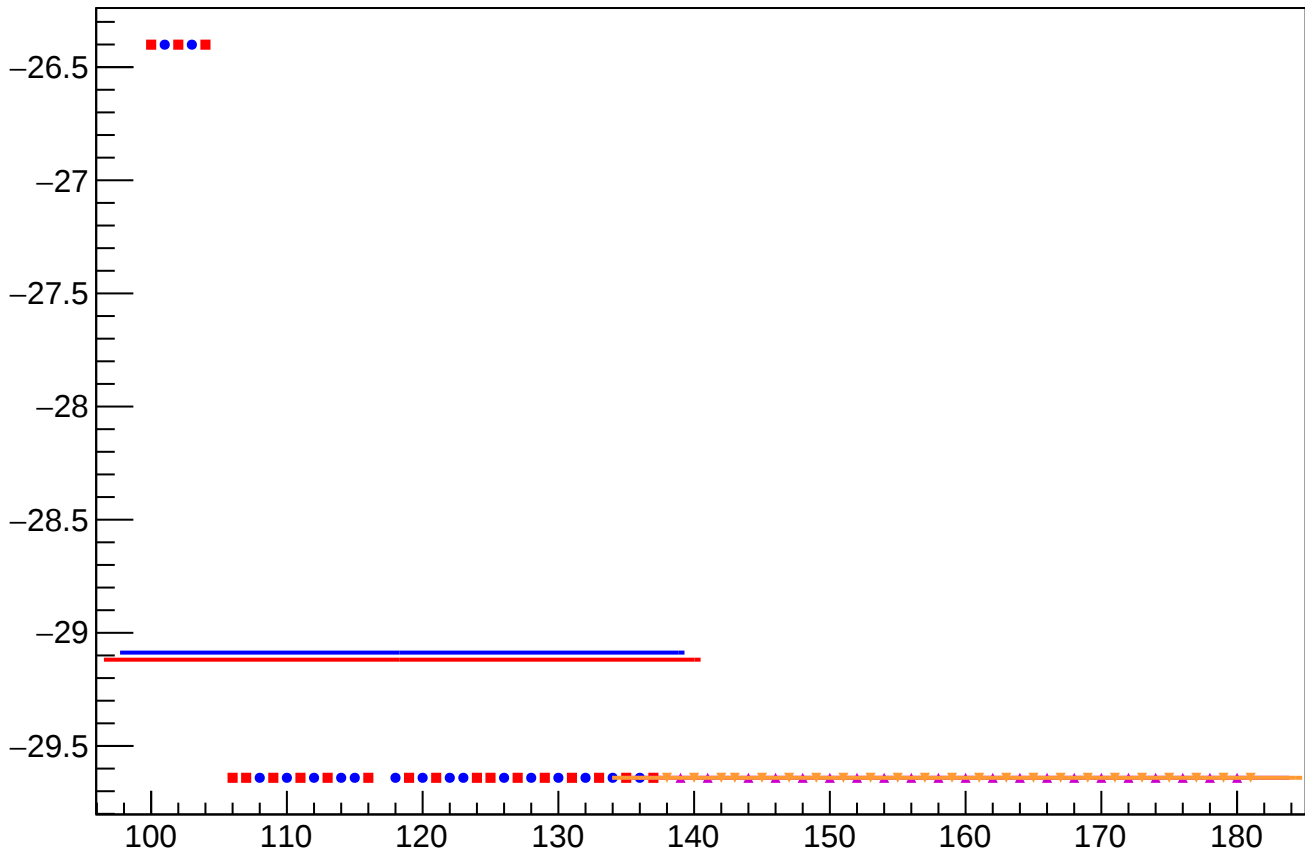
Right: 88.002+/-0.000 χ^2/NDF : 8042394504606349

In: -38.767+/-0.000 χ^2/NDF : 15644736962788728

Out: -39.550+/-0.000 χ^2/NDF : 1640258651872453

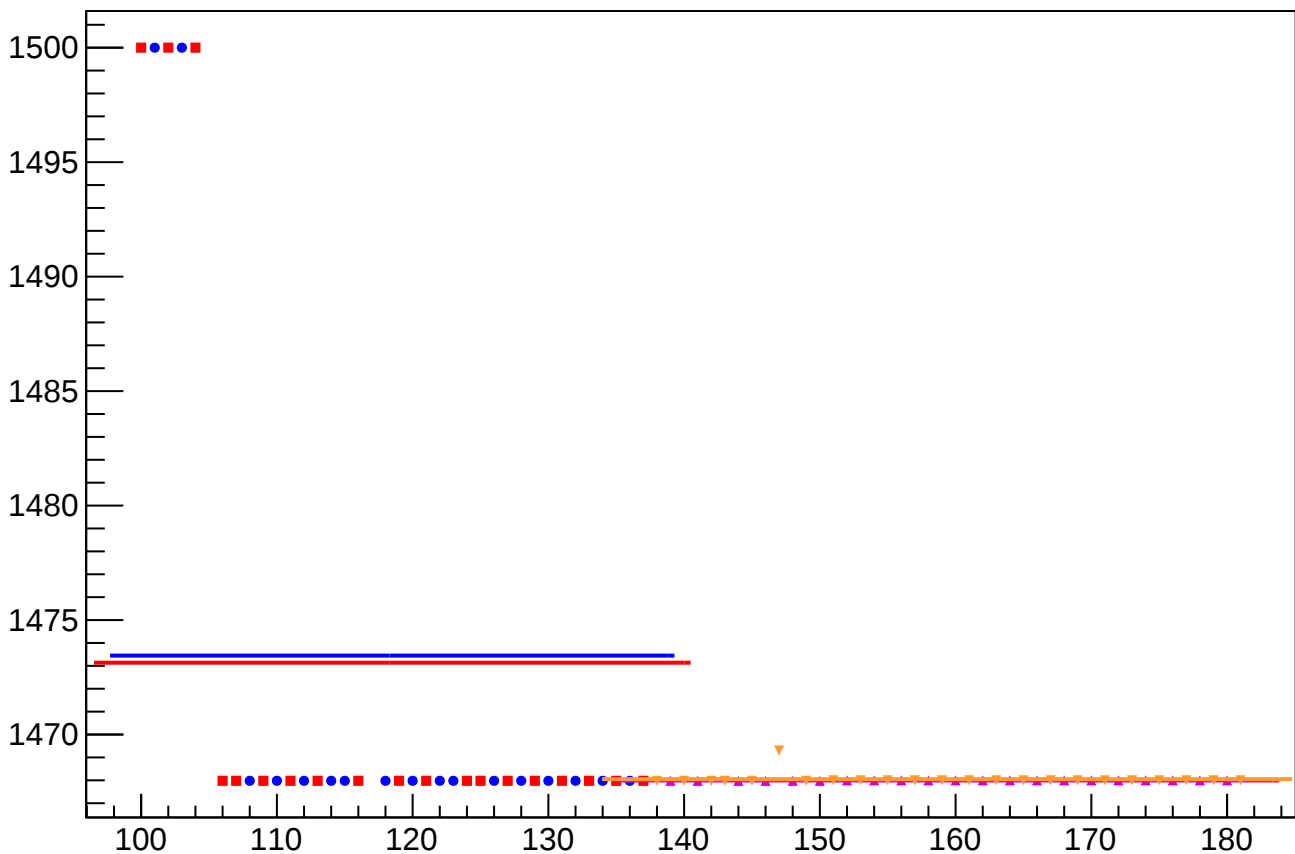
All: -39.169+/-0.000 χ^2/NDF : 320480731677

epics_HWienAngles_mean vs Slug, Sign Corrected



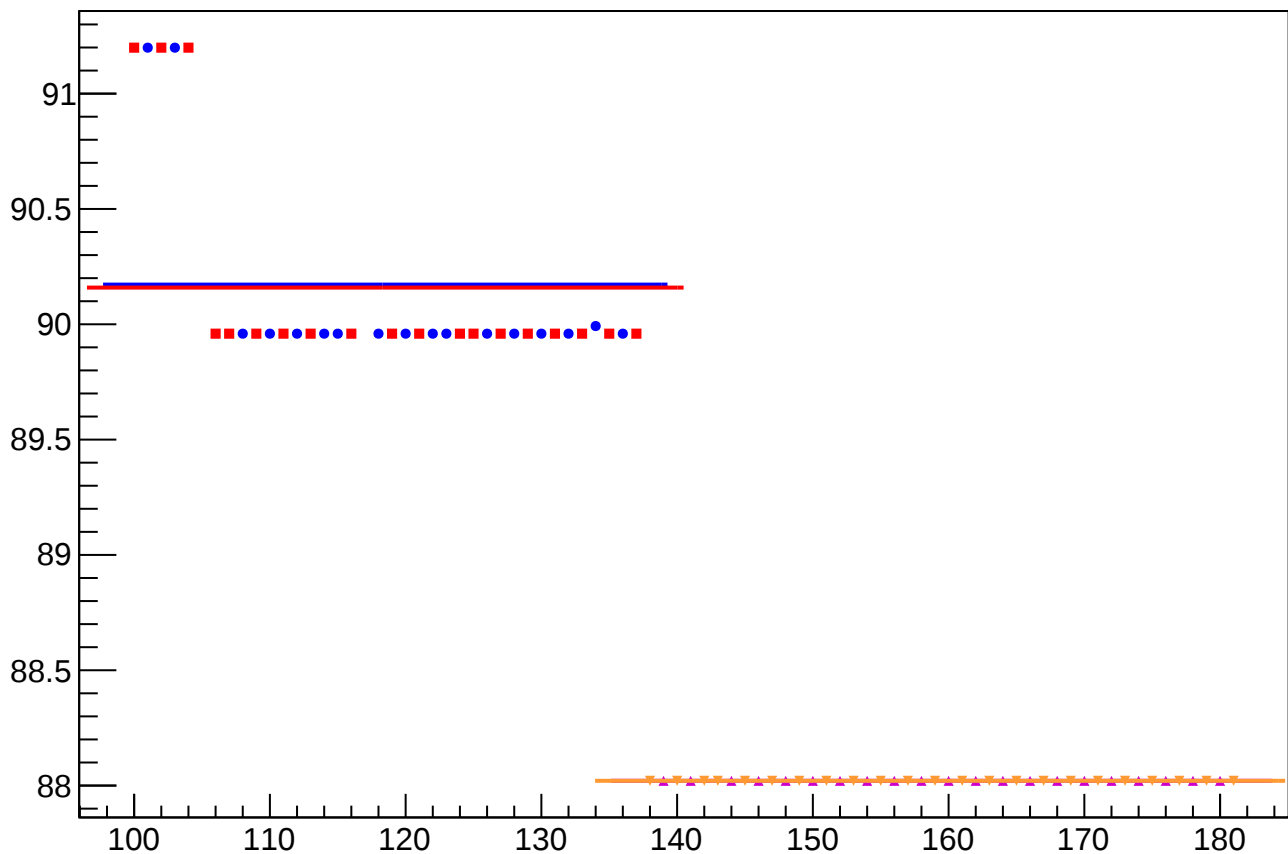
Right In: -29.087+/-0.000 χ^2/NDF : 1027184842836480355028877627621376.0/16
 Left Out: -29.641+/-0.000 χ^2/NDF : 255426.9/22
 Right Out: -29.119+/-0.000 χ^2/NDF : 1021533120000008474668992382894080.0/18
 Left In: -29.641+/-0.000 χ^2/NDF : 478327.4/20
 In: -29.480+/-0.000 χ^2/NDF : 11773272231835218
 Out: -29.492+/-0.000 χ^2/NDF : 1161645496149240
 All: -29.486+/-0.000 χ^2/NDF : 233913093355

epics_psub_pl_poss_mean vs Slug, Sign Corrected



Right In: 1473.447+/-0.000 χ^2/NDF : 100331979974804513534478923851628544.0/16
 Left Out: 1468.051+/-0.000 χ^2/NDF : 127656949249289324093749980037120.0/22
 Right Out: 1473.138+/-0.000 χ^2/NDF : 99779938590622337721401930749575168.0/18
 Left In: 1467.993+/-0.000 χ^2/NDF : 140991479256117896147625836544.0/20
 All: 1469.540+/-0.000 χ^2/NDF : 22814446379

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.172+/-0.000

χ^2/NDF : 150181697791974119042789817712640.0/16

Left Out: 88.021+/-0.000

χ^2/NDF : 5482494.9/22

Right Out: 90.159+/-0.000

χ^2/NDF : 149625564444474590335066871693312.0/18

Left In: 88.021+/-0.000

χ^2/NDF : 5960506.8/20

Left: 88.021+/-0.000 χ^2/NDF : 10774148.6/43

Right: 90.165+/-0.000

χ^2/NDF : 2998666474784590

In: 88.645+/-0.000

χ^2/NDF : 242018863165768629

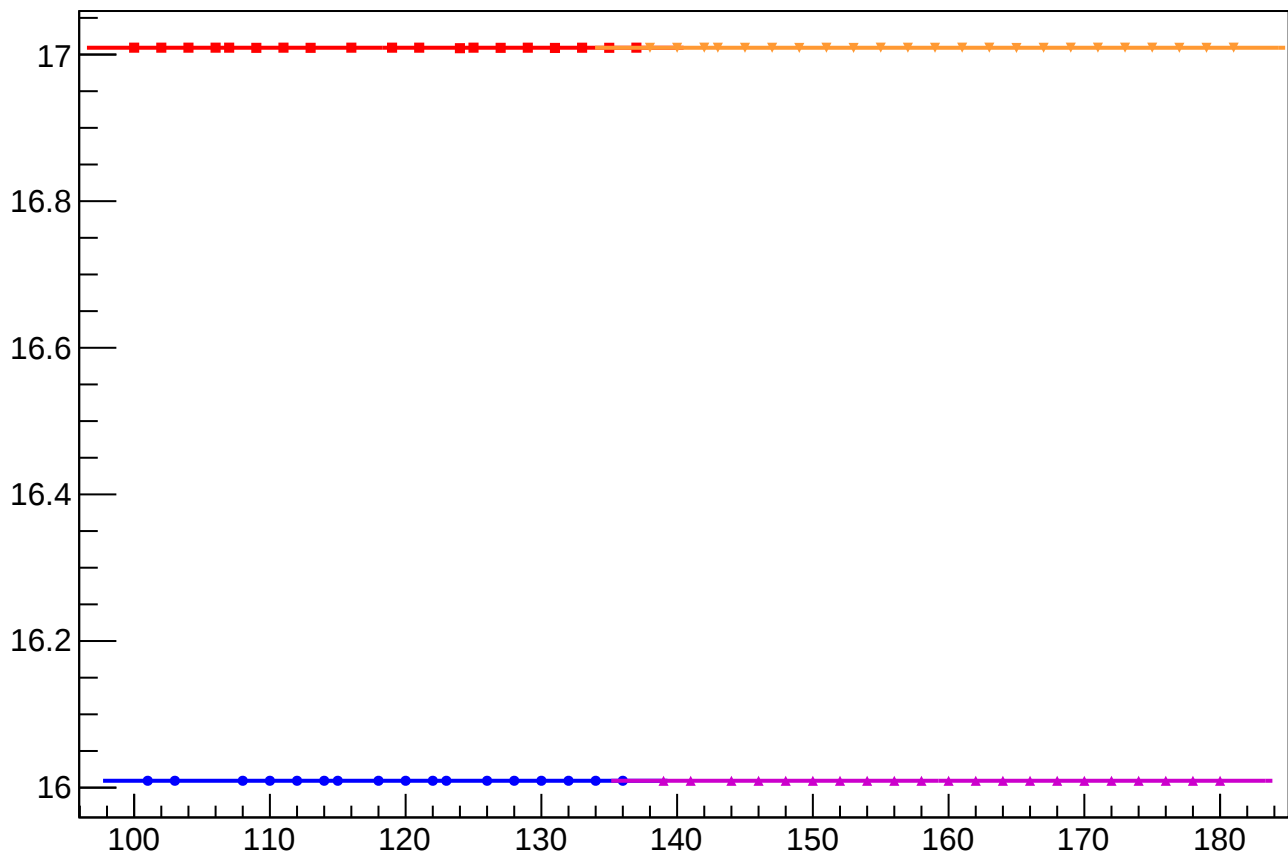
Out: 88.632+/-0.000

χ^2/NDF : 25008918611025685

All: 88.638+/-0.000

χ^2/NDF : 4921292034045

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 38900.3/16

Left Out: 17.009+/-0.000 χ^2/NDF : 24894260218451556263002112.0/22

Right Out: 17.009+/-0.000 χ^2/NDF : 12507759350541157226512384.0/18

Left In: 16.009+/-0.000 χ^2/NDF : 127551577199997735665664.0/20

Left: 16.524+/-0.000 χ^2/NDF : 80736731444191653

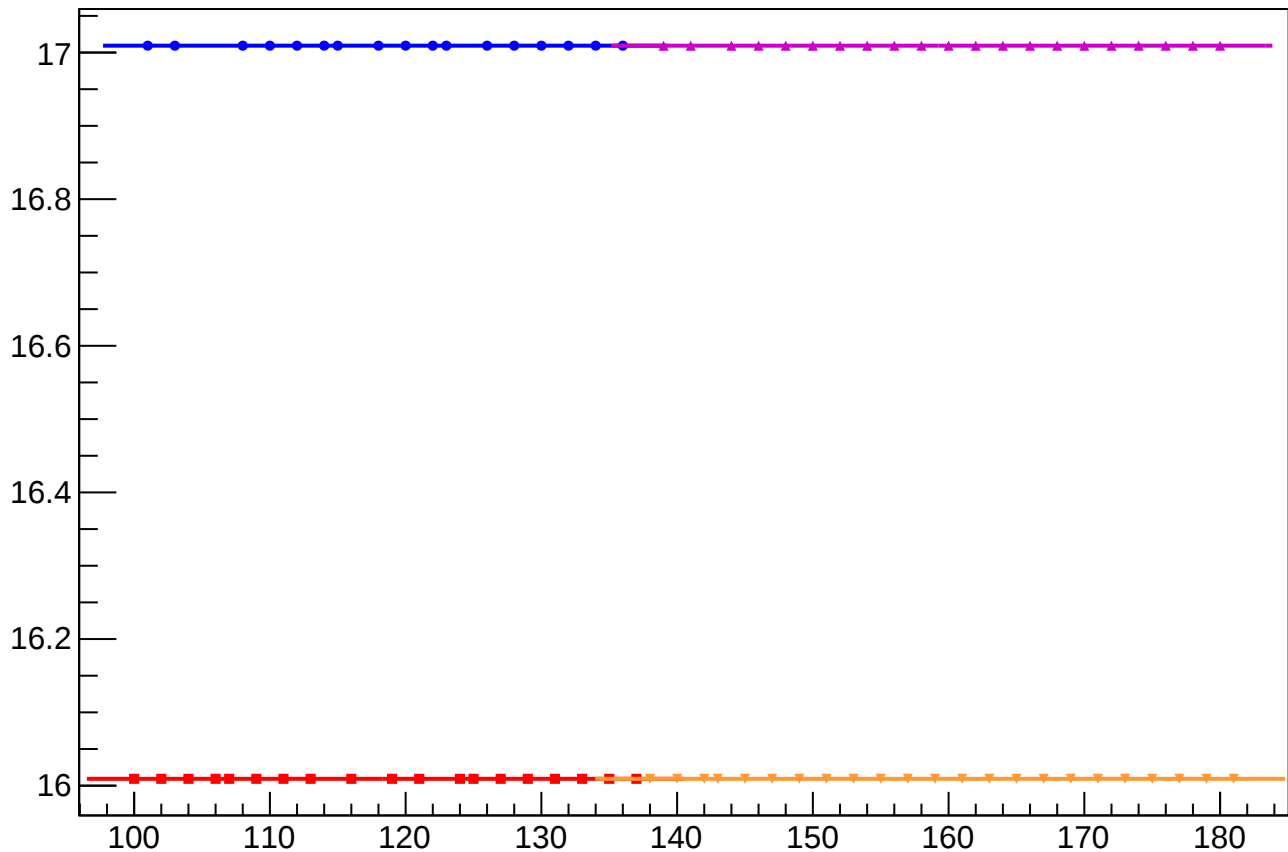
Right: 16.507+/-0.000 χ^2/NDF : 3279335089313653

In: 16.009+/-0.000 χ^2/NDF : 129392549839711380

Out: 17.009+/-0.000 χ^2/NDF : 37707198640150527

All: 16.519+/-0.000 χ^2/NDF : 1135569370353

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 119200.0/16

Left Out: 16.009+/-0.000 χ^2/NDF : 60710.7/22

Right Out: 16.009+/-0.000 χ^2/NDF : 39077.0/18

Left In: 17.009+/-0.000 χ^2/NDF : 114626721460555654103040.0/20

Left: 16.490+/-0.000 χ^2/NDF : 8537613762141550

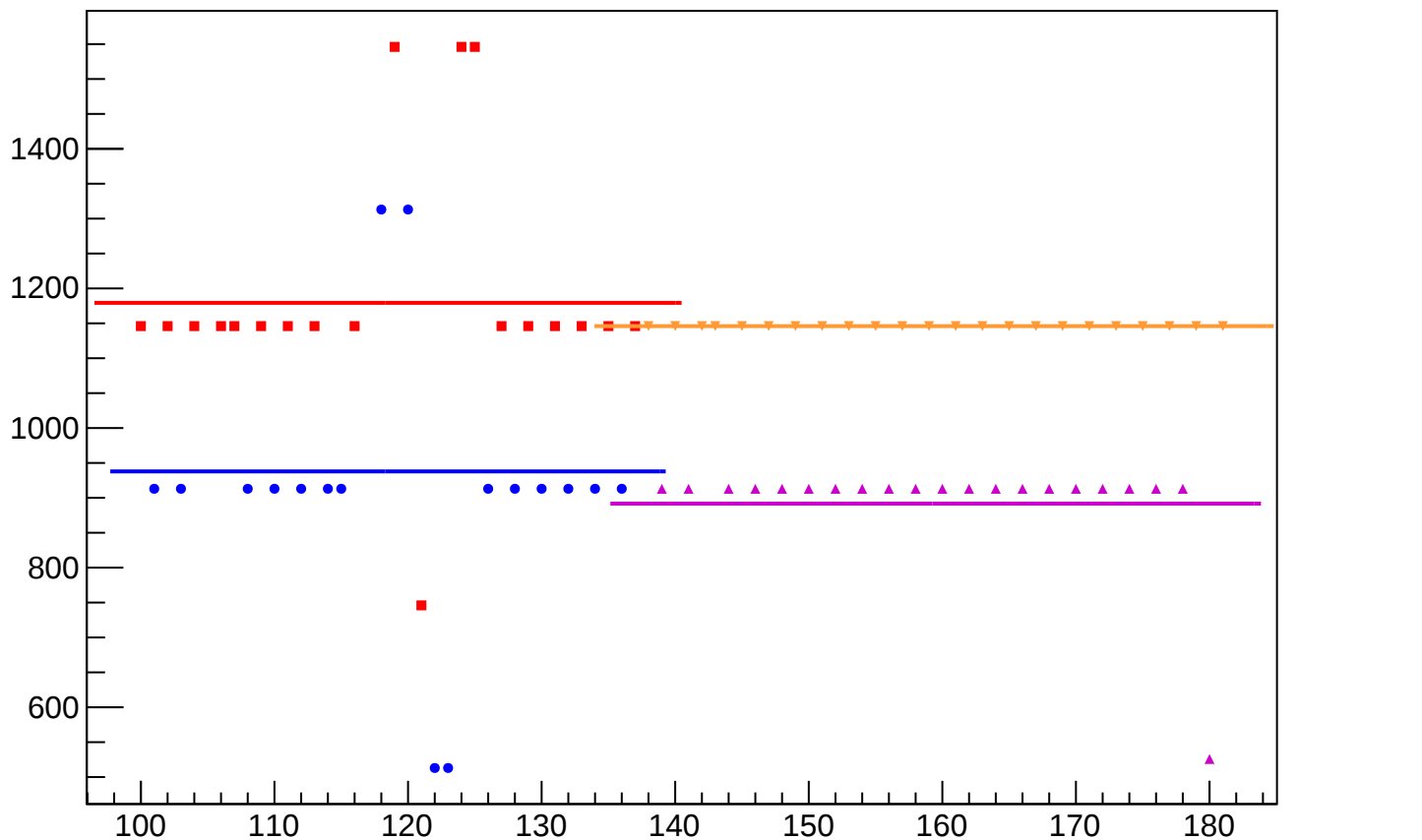
Right: 16.490+/-0.000 χ^2/NDF : 3424686588921133

In: 17.009+/-0.000 χ^2/NDF : 116324719132185846

Out: 16.009+/-0.000 χ^2/NDF : 287448.3/41

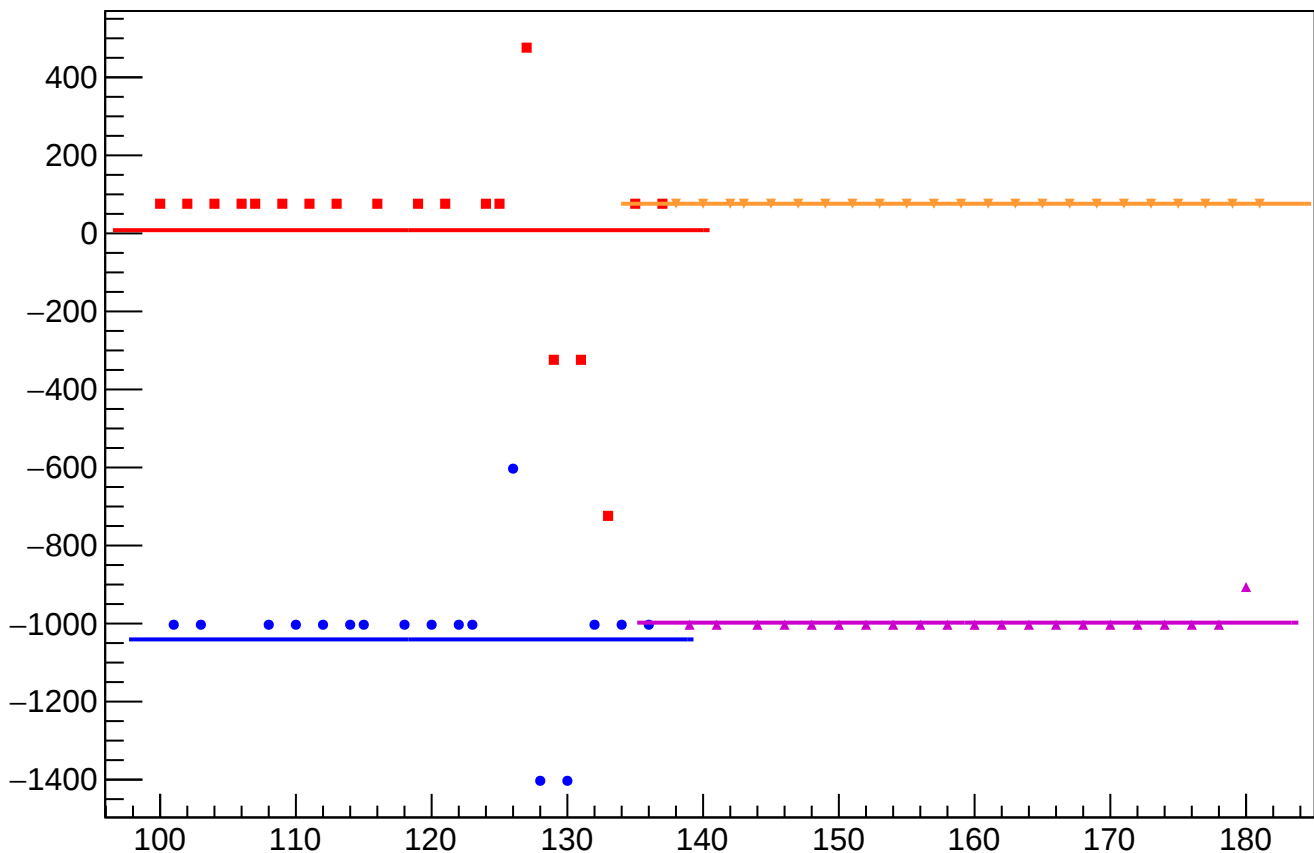
All: 16.490+/-0.000 χ^2/NDF : 1196230477998

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Left: 1022.825 +/- 0.000 χ^2/NDF : 695285074917308
 Right: 1061.096 +/- 0.000 χ^2/NDF : 62690984501737
 In: 905.099 +/- 0.000 χ^2/NDF : 35068369779052504
 Out: 1155.538 +/- 0.000 χ^2/NDF : 218520133433913
 All: 1033.845 +/- 0.000 χ^2/NDF : 13369107529

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1040.616+/-0.000 χ^2/NDF : 22221373085920074948025403120531013632.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 10937220090244609075471974400.0/22
 Right Out: 8.231+/-0.000 χ^2/NDF : 43732051061335101274341918679788158976.0/18
 Left In: -997.664+/-0.000 χ^2/NDF : 823027729017640584703469096290746368.0/20
 All: -461.724+/-0.000 χ^2/NDF : 14629784274