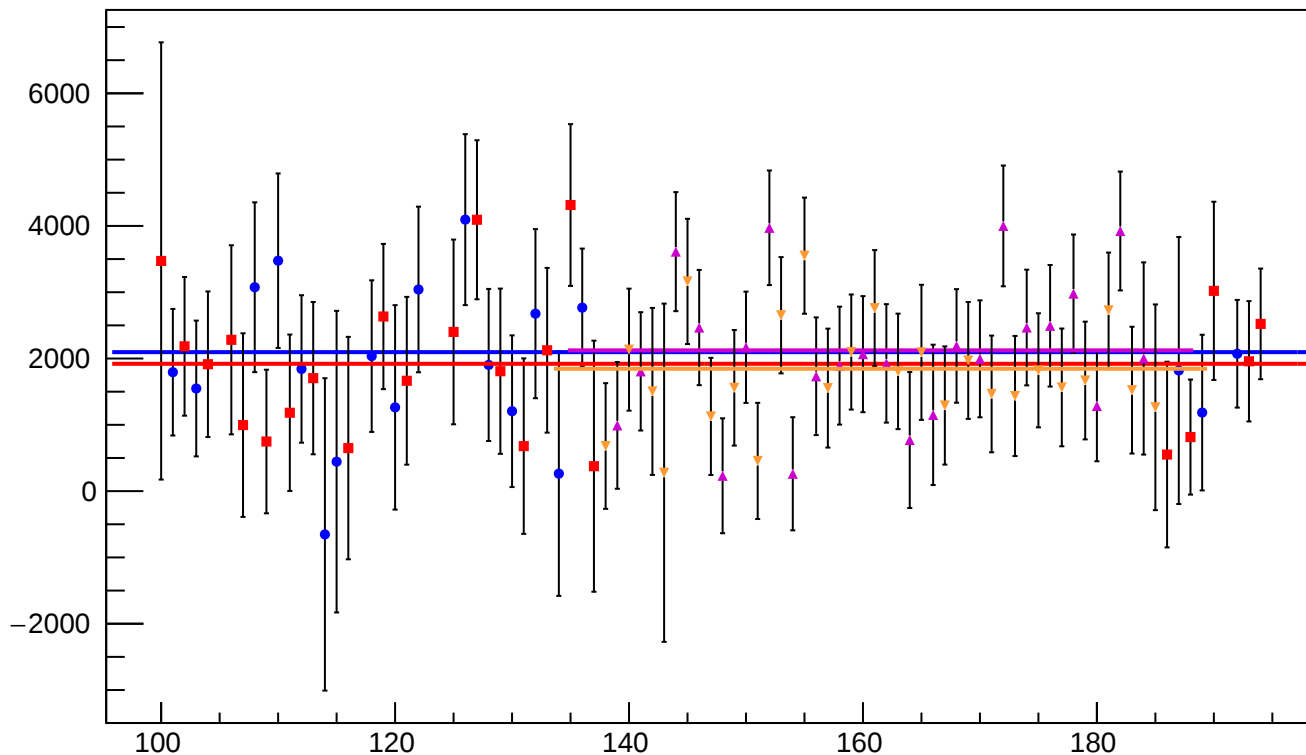


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2096.211+/-277.038

Left Out: 1845.799+/-186.902

Right Out: 1920.594+/-249.556

Left In: 2123.138+/-188.684

χ^2/NDF : 10.3/18

χ^2/NDF : 15.5/24

χ^2/NDF : 16.0/22

χ^2/NDF : 32.0/22

Left: 1983.152+/-132.785

Right: 1999.263+/-185.419

In: 2114.606+/-155.950

Out: 1872.676+/-149.598

All: 1988.614+/-107.957

χ^2/NDF : 48.6/47

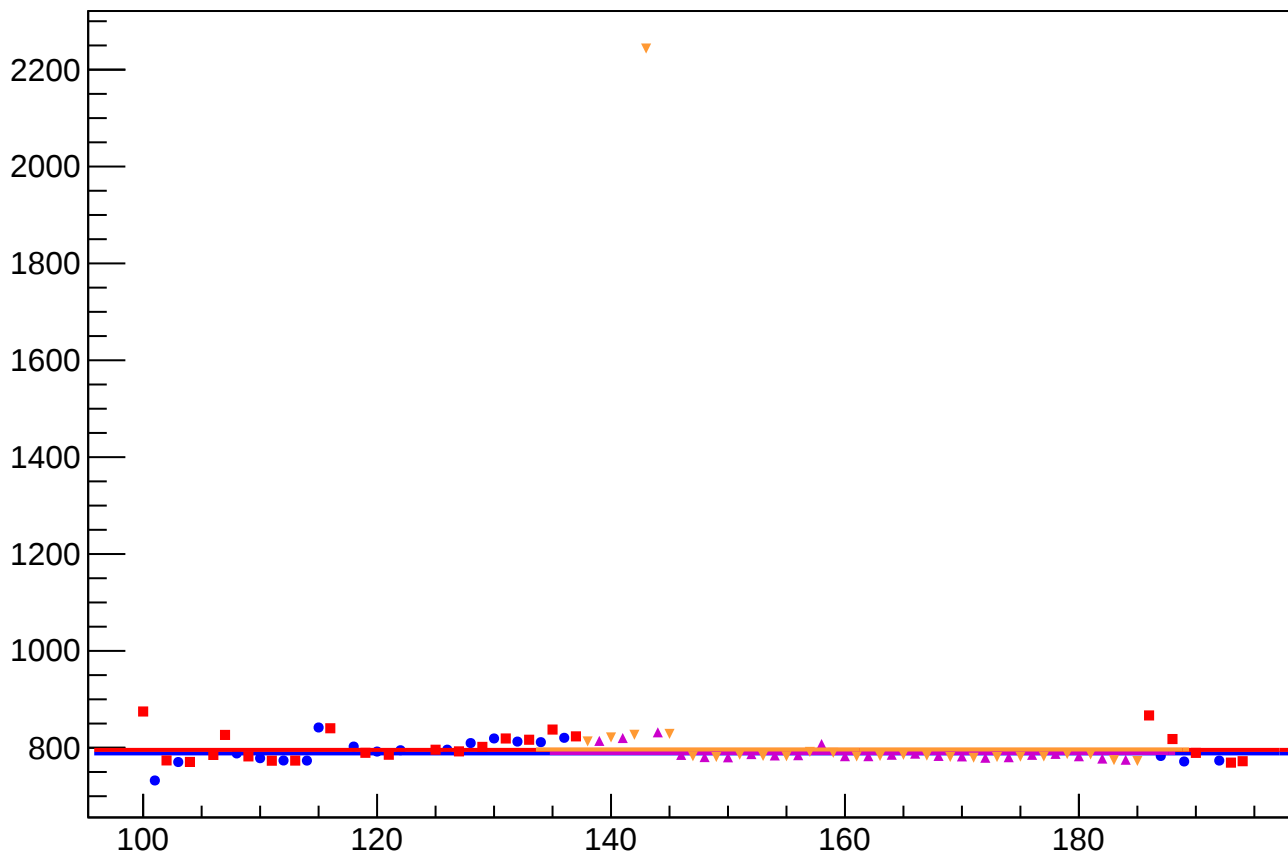
χ^2/NDF : 26.6/41

χ^2/NDF : 42.3/41

χ^2/NDF : 31.6/47

χ^2/NDF : 75.1/89

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 788.332 $\pm$ 0.196 χ^2 /NDF: 16440.0/18

Left Out: 796.441 $\pm$ 0.132 χ^2 /NDF: 658708.8/24

Right Out: 795.651 $\pm$ 0.176 χ^2 /NDF: 21363.6/22

Left In: 789.185 $\pm$ 0.133 χ^2 /NDF: 11343.2/22

Left: 792.847 $\pm$ 0.094 χ^2 /NDF: 671545.0/47

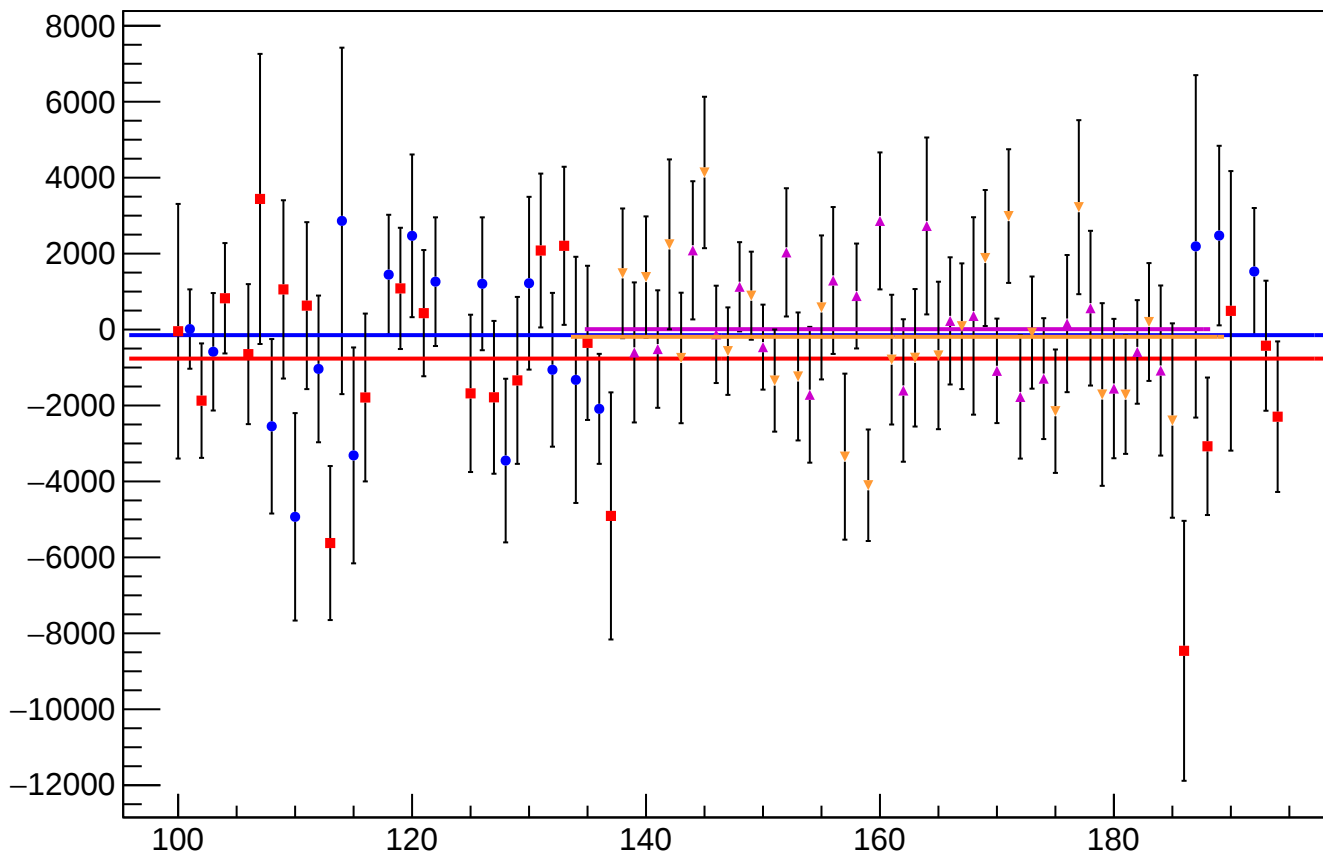
Right: 792.373 $\pm$ 0.131 χ^2 /NDF: 38574.3/41

In: 788.914 $\pm$ 0.110 χ^2 /NDF: 27796.1/41

Out: 796.157 $\pm$ 0.106 χ^2 /NDF: 680085.3/47

All: 792.686 $\pm$ 0.076 χ^2 /NDF: 710128.0/89

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -146.931 $\pm$ 438.469 χ^2 /NDF: 17.3/18

Left Out: -191.027 $\pm$ 333.904 χ^2 /NDF:30.1/24

Right Out: -764.752 $\pm$ 425.875 χ^2 /NDF: 25.4/22

Left In: 10.093 $\pm$ 337.810 χ^2 /NDF:14.2/22

Left: -91.637 $\pm$ 237.475 χ^2 /NDF: 44.5/47

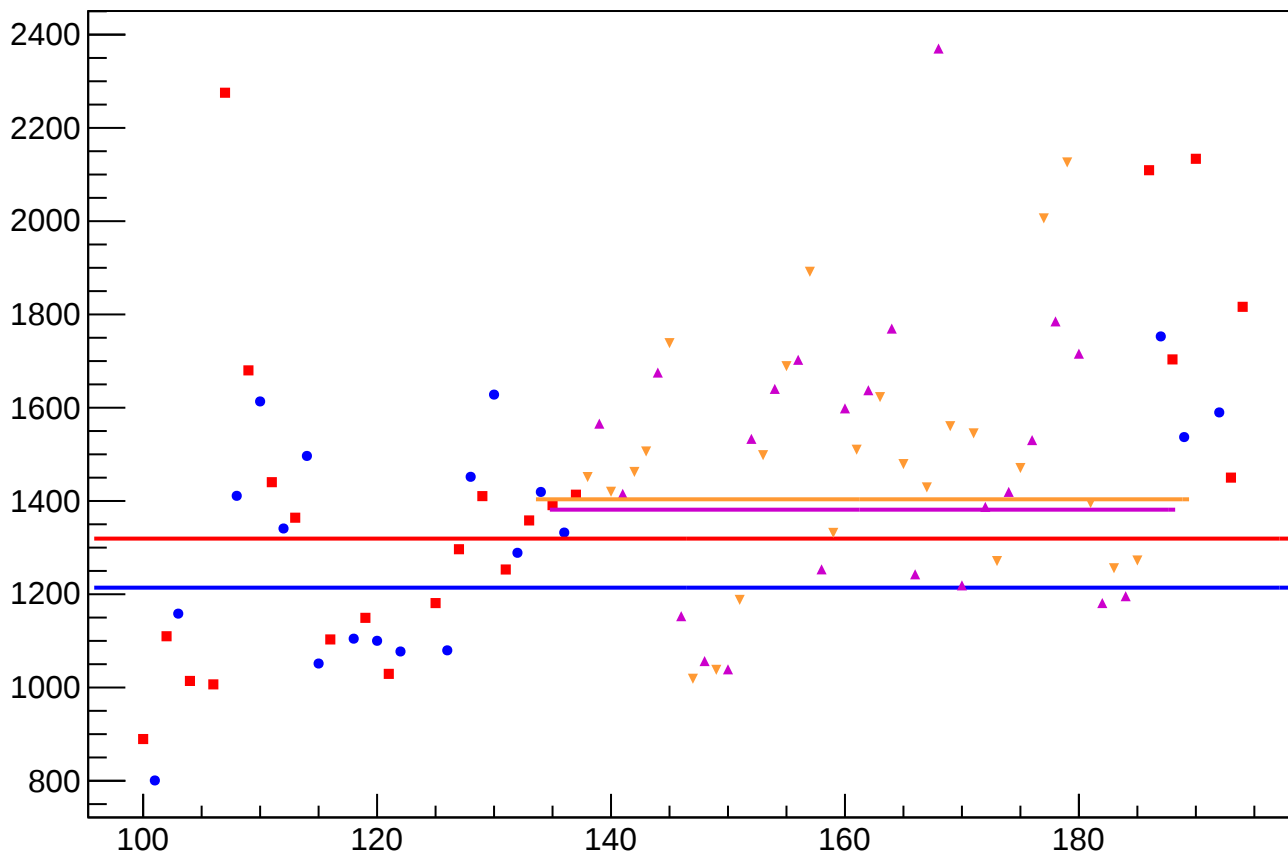
Right: -464.842 $\pm$ 305.494 χ^2 /NDF: 43.8/41

In: -48.395 $\pm$ 267.601 χ^2 /NDF:31.6/41

Out: -409.443 $\pm$ 262.768 χ^2 /NDF:56.7/47

All: -232.209 $\pm$ 187.490 χ^2 /NDF: 89.2/89

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1214.144 $\pm$ 0.310 χ^2/NDF : 717329.4/18

Left Out: 1403.610 $\pm$ 0.236 χ^2/NDF : 1126524.9/24

Right Out: 1319.340 $\pm$ 0.301 χ^2/NDF : 950823.2/22

Left In: 1381.359 $\pm$ 0.239 χ^2/NDF : 1276488.2/22

Left: 1392.613 $\pm$ 0.168 χ^2/NDF : 2407402.2/47

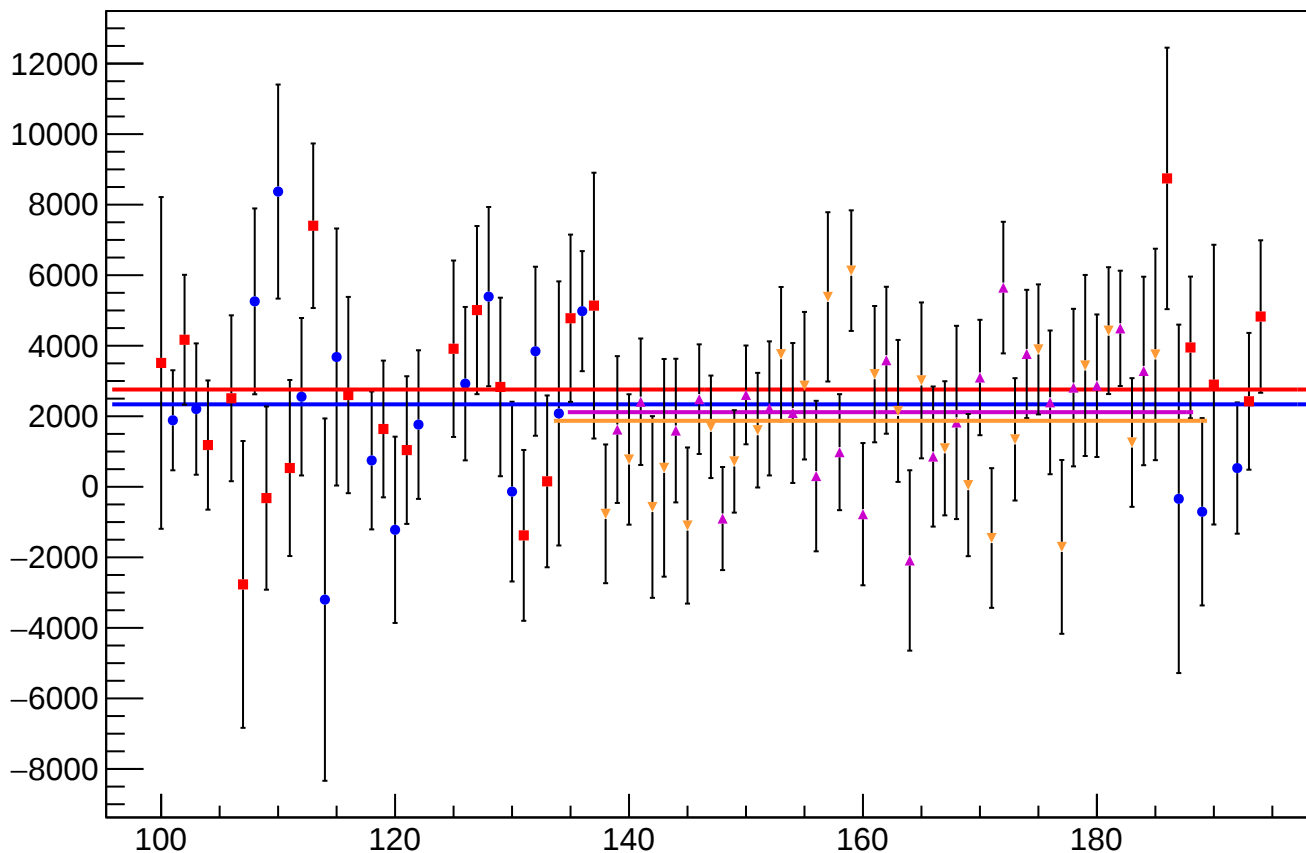
Right: 1268.274 $\pm$ 0.216 χ^2/NDF : 1727389.9/41

In: 1319.075 $\pm$ 0.189 χ^2/NDF : 2176346.7/41

Out: 1371.528 $\pm$ 0.186 χ^2/NDF : 2125844.4/47

All: 1345.780 $\pm$ 0.133 χ^2/NDF : 4341312.0/89

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2338.078+/-529.660 χ^2/NDF : 17.0/18

Left Out: 1871.638+/-391.684 χ^2/NDF : 26.1/24

Right Out: 2758.710+/-503.891 χ^2/NDF : 20.6/22

Left In: 2116.114+/-392.997 χ^2/NDF : 18.8/22

Left: 1993.467+/-277.425 χ^2/NDF : 45.1/47

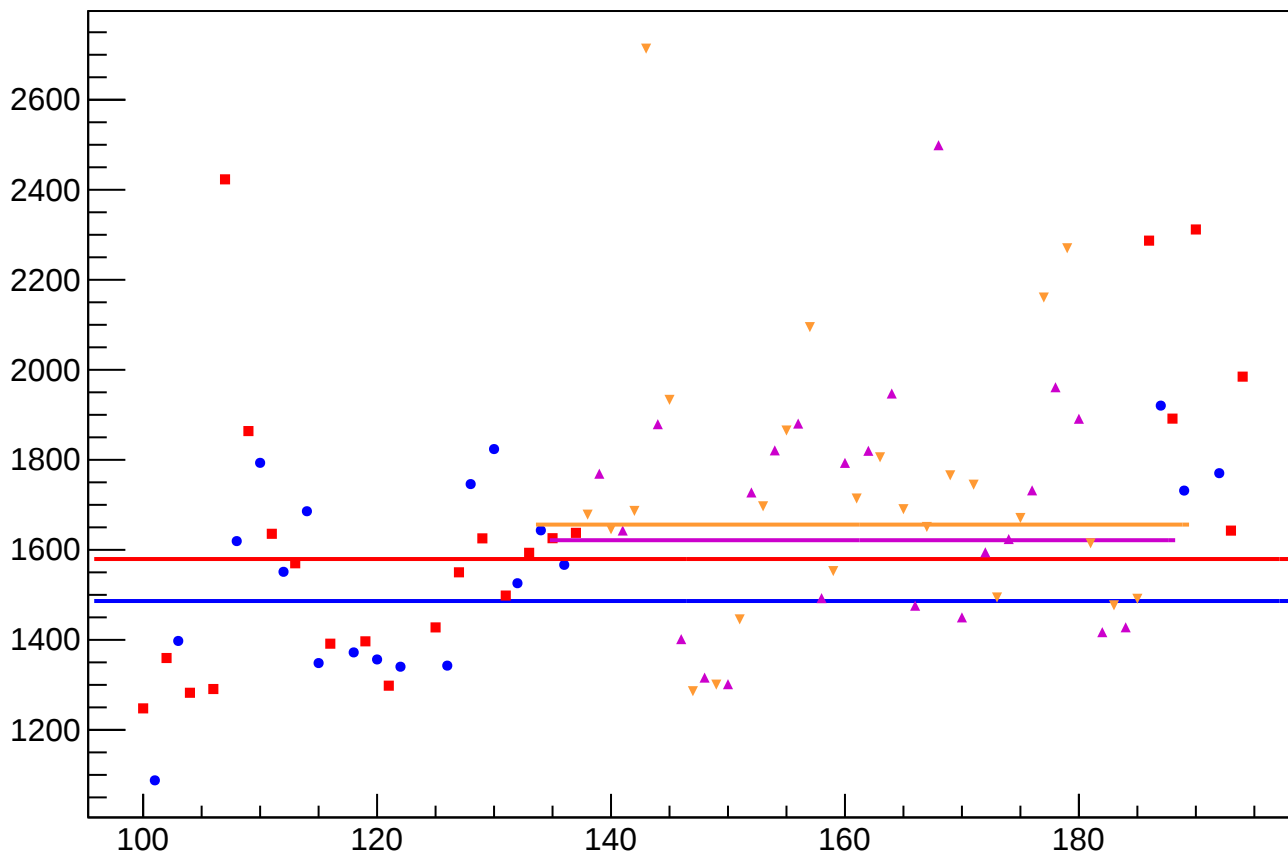
Right: 2558.875+/-365.075 χ^2/NDF : 37.9/41

In: 2194.925+/-315.608 χ^2/NDF : 35.9/41

Out: 2205.750+/-309.245 χ^2/NDF : 48.6/47

All: 2200.447+/-220.885 χ^2/NDF : 84.5/89

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1486.319 $\pm$ 0.375 χ^2 /NDF: 369110.4/18

Left Out: 1656.119 $\pm$ 0.277 χ^2 /NDF: 910573.4/24

Right Out: 1579.619 $\pm$ 0.356 χ^2 /NDF: 568949.2/22

Left In: 1621.417 $\pm$ 0.278 χ^2 /NDF: 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2 /NDF: 1693706.9/47

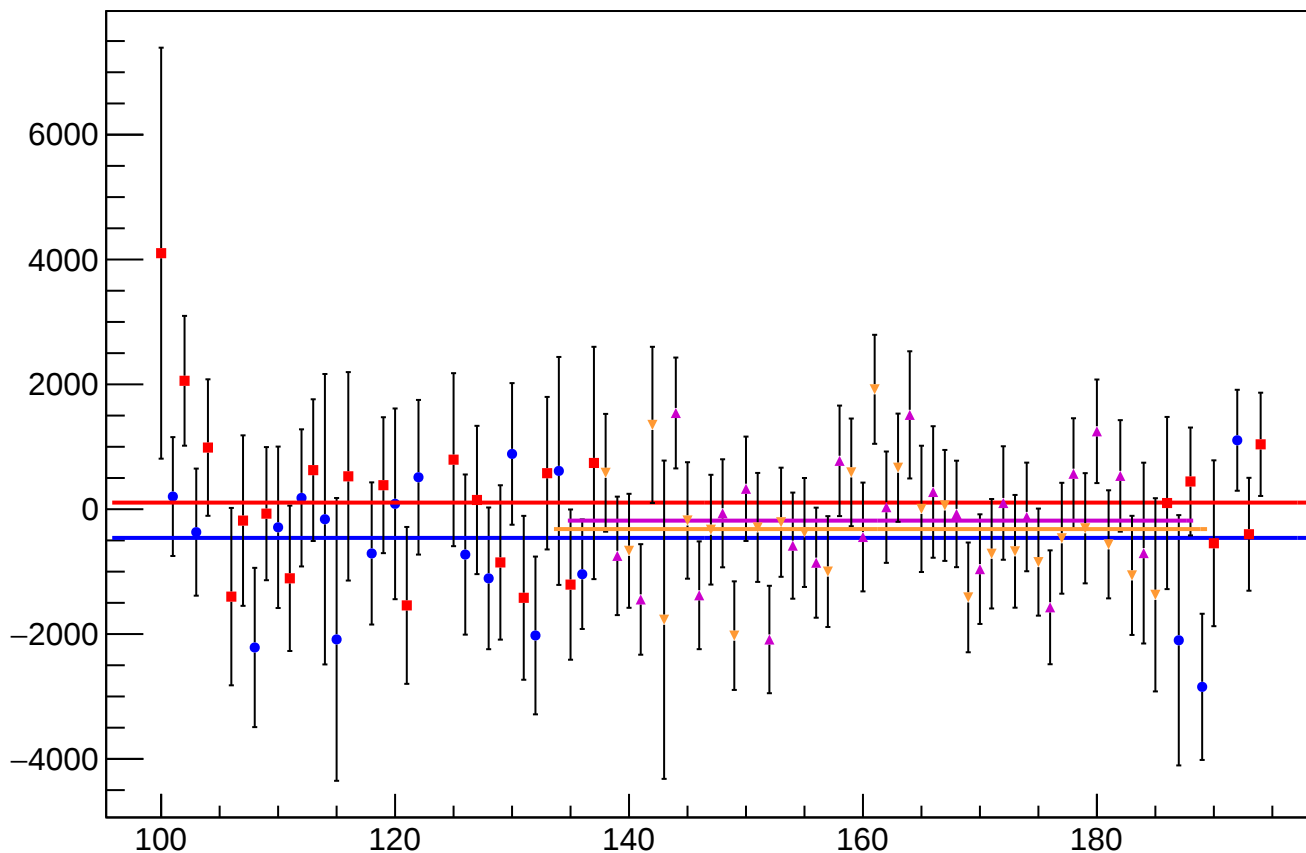
Right: 1535.294 $\pm$ 0.258 χ^2 /NDF: 970635.0/41

In: 1573.449 $\pm$ 0.223 χ^2 /NDF: 1228338.0/41

Out: 1627.306 $\pm$ 0.219 χ^2 /NDF: 1508258.2/47

All: 1600.926 $\pm$ 0.156 χ^2 /NDF: 2766308.8/89

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -459.699 ± 274.895 $\chi^2/\text{NDF}: 16.7/18$

Left Out: -318.336 ± 186.041 $\chi^2/\text{NDF}: 20.4/24$

Right Out: 105.853 ± 247.370 $\chi^2/\text{NDF}: 15.6/22$

Left In: -182.895 ± 187.817 $\chi^2/\text{NDF}: 26.1/22$

Left: -251.259 ± 132.174 $\chi^2/\text{NDF}: 46.8/47$

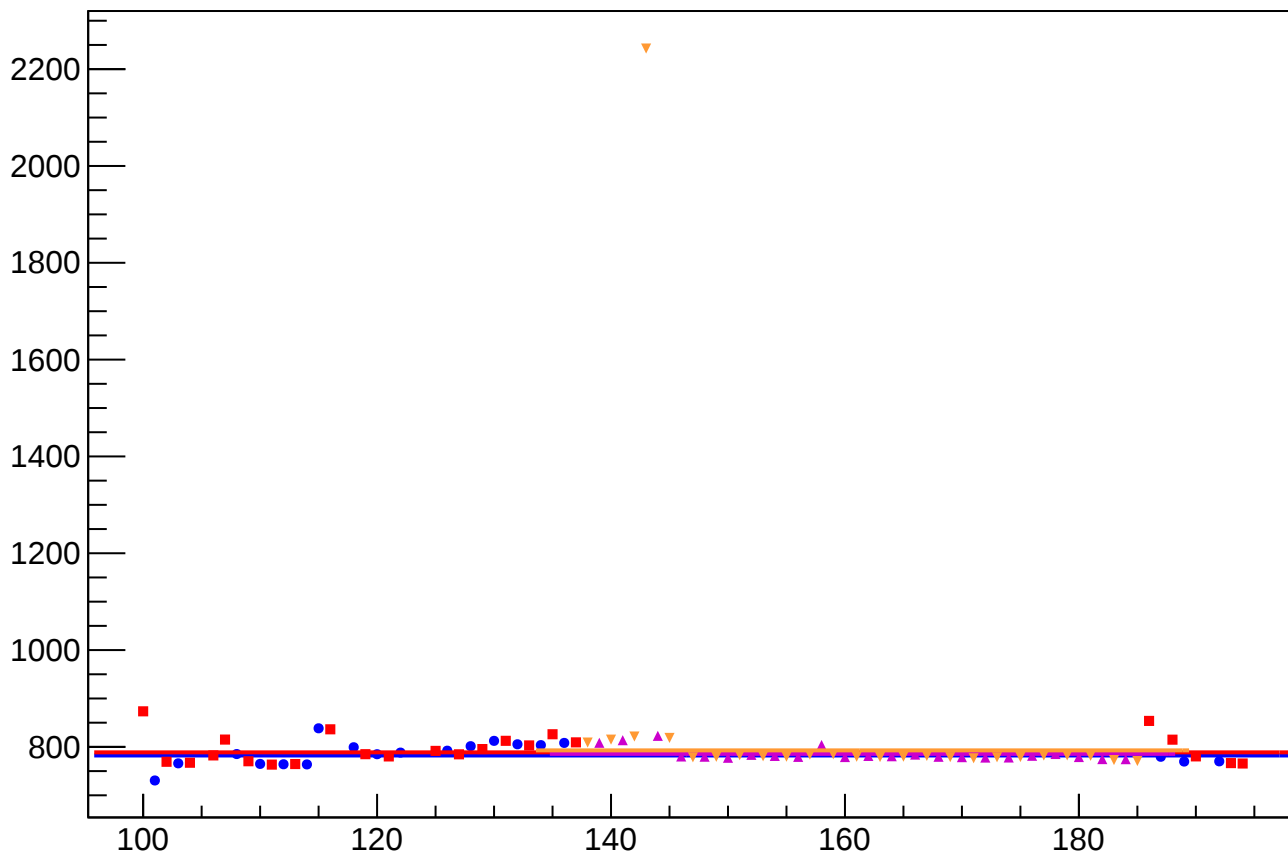
Right: -147.199 ± 183.881 $\chi^2/\text{NDF}: 34.7/41$

In: -270.987 ± 155.078 $\chi^2/\text{NDF}: 43.5/41$

Out: -165.087 ± 148.684 $\chi^2/\text{NDF}: 37.9/47$

All: -215.809 ± 107.325 $\chi^2/\text{NDF}: 81.6/89$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 782.279+/-0.194 χ^2/NDF : 14646.2/18

Left Out: 792.791+/-0.132 χ^2/NDF : 659510.7/24

Right Out: 788.724+/-0.175 χ^2/NDF : 20078.2/22

Left In: 785.592+/-0.133 χ^2/NDF : 9373.7/22

Left: 789.226+/-0.093 χ^2/NDF : 670367.6/47

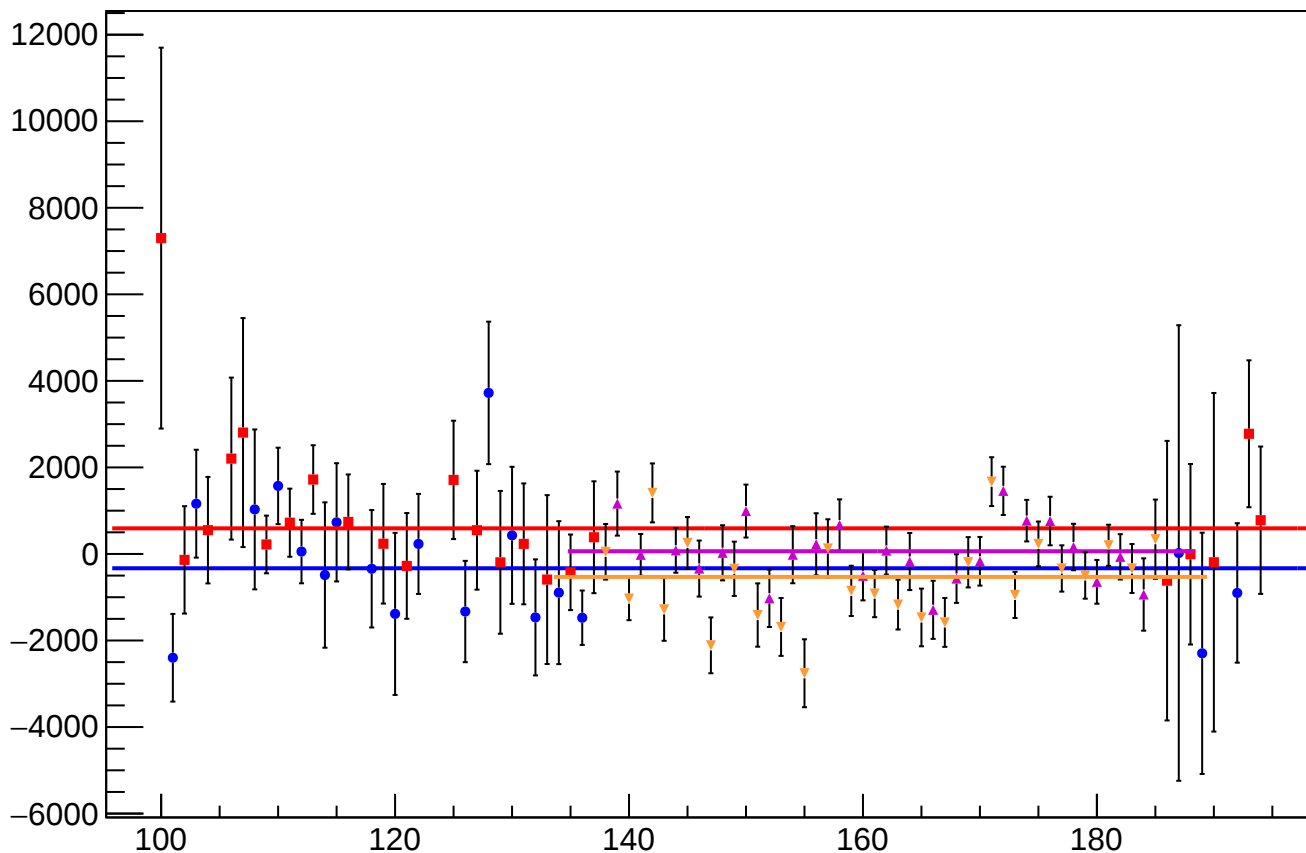
Right: 785.840+/-0.130 χ^2/NDF : 35331.8/41

In: 784.538+/-0.110 χ^2/NDF : 24218.0/41

Out: 791.322+/-0.105 χ^2/NDF : 679934.2/47

All: 788.072+/-0.076 χ^2/NDF : 706146.5/89

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -330.639 $\pm$ 277.146 χ^2/NDF : 24.0/18

Left Out: -530.101 $\pm$ 119.543 χ^2/NDF : 61.6/24

Right Out: 591.933 $\pm$ 262.893 χ^2/NDF : 11.7/22

Left In: 62.768 $\pm$ 122.045 χ^2/NDF : 28.8/22

Left: -239.807 $\pm$ 85.401 χ^2/NDF : 102.5/47

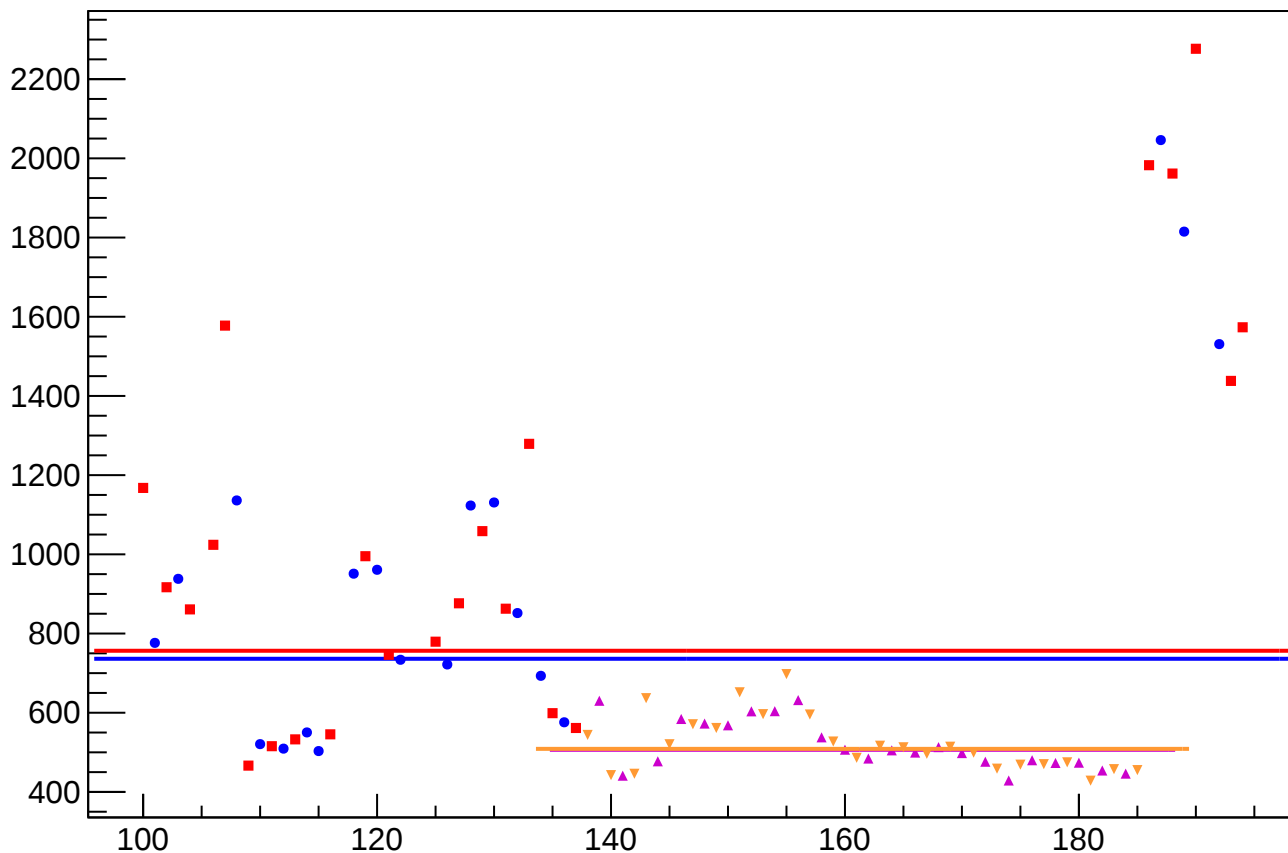
Right: 154.979 $\pm$ 190.733 χ^2/NDF : 41.5/41

In: -1.131 $\pm$ 111.695 χ^2/NDF : 54.5/41

Out: -337.849 $\pm$ 108.821 χ^2/NDF : 88.4/47

All: -173.878 $\pm$ 77.944 χ^2/NDF : 147.6/89

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 736.262 $\pm$ 0.196 χ^2 /NDF: 1912296.6/18

Left Out: 508.773 $\pm$ 0.085 χ^2 /NDF: 549245.1/24

Right Out: 756.501 $\pm$ 0.186 χ^2 /NDF: 3547469.7/22

Left In: 506.380 $\pm$ 0.086 χ^2 /NDF: 436294.4/22

Left: 507.601 $\pm$ 0.060 χ^2 /NDF: 985931.7/47

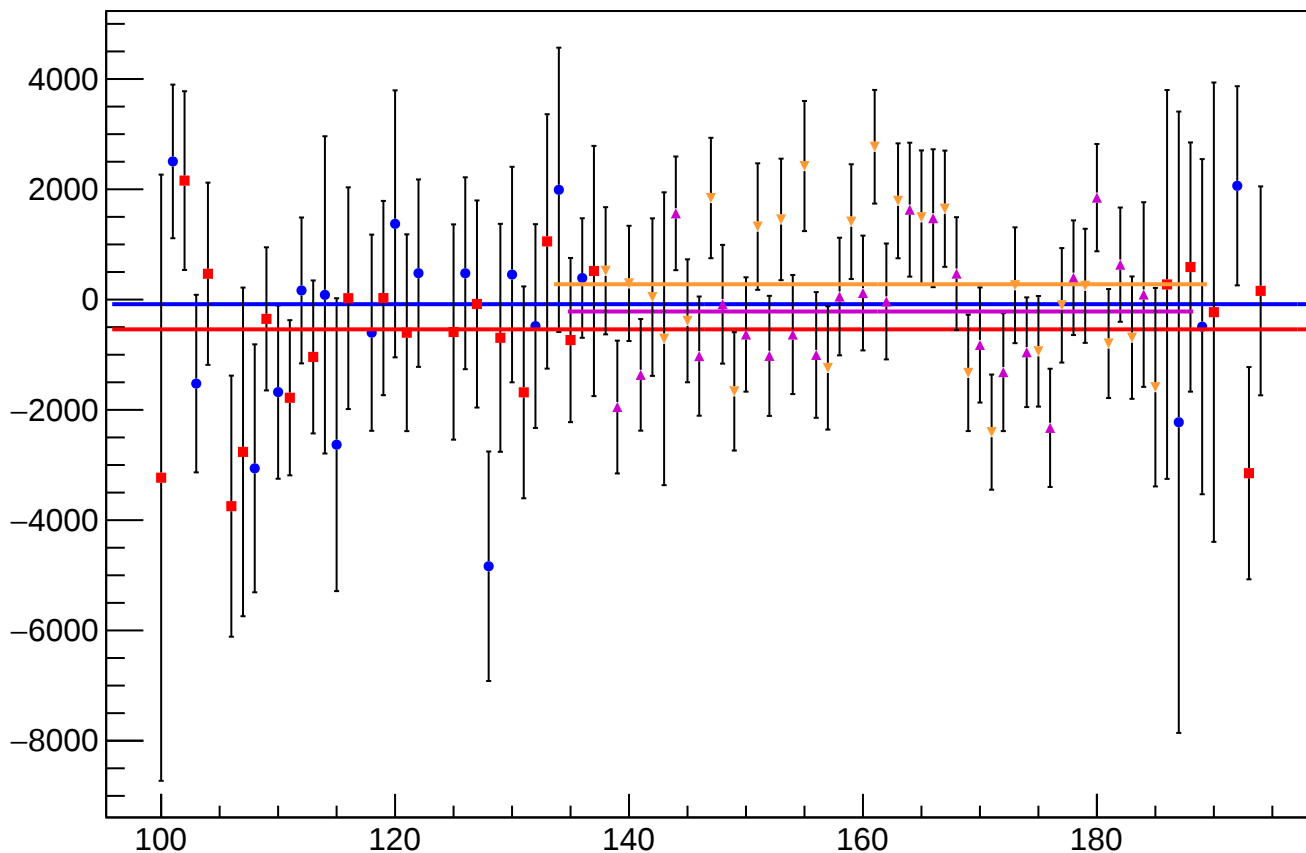
Right: 746.915 $\pm$ 0.135 χ^2 /NDF: 5465380.4/41

In: 543.719 $\pm$ 0.079 χ^2 /NDF: 3501108.8/41

Out: 551.219 $\pm$ 0.077 χ^2 /NDF: 5568346.2/47

All: 547.567 $\pm$ 0.055 χ^2 /NDF: 9074081.9/89

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -83.375 ± 417.582 $\chi^2/\text{NDF}: 16.4/18$

Left Out: 278.090 ± 223.581 $\chi^2/\text{NDF}: 38.4/24$

Right Out: -539.863 ± 397.136 $\chi^2/\text{NDF}: 10.3/22$

Left In: -216.121 ± 225.600 $\chi^2/\text{NDF}: 24.4/22$

Left: 33.207 ± 158.805 $\chi^2/\text{NDF}: 65.2/47$

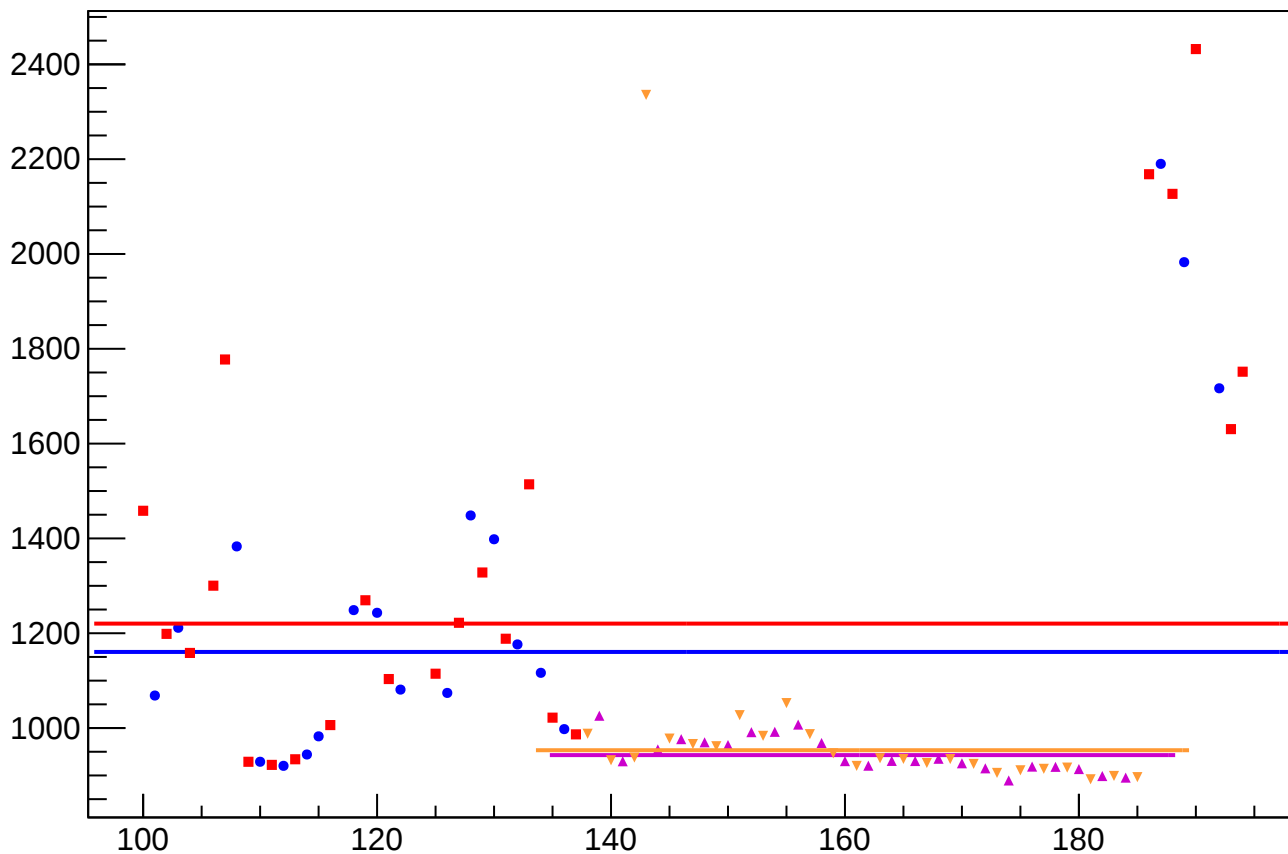
Right: -323.067 ± 287.774 $\chi^2/\text{NDF}: 27.3/41$

In: -186.130 ± 198.486 $\chi^2/\text{NDF}: 40.9/41$

Out: 81.234 ± 194.827 $\chi^2/\text{NDF}: 51.9/47$

All: -49.961 ± 139.039 $\chi^2/\text{NDF}: 93.7/89$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1160.543 $\pm$ 0.295 χ^2/NDF : 693273.7/18

Left Out: 953.221 $\pm$ 0.158 χ^2/NDF : 606273.1/24

Right Out: 1220.307 $\pm$ 0.281 χ^2/NDF : 1372668.3/22

Left In: 942.927 $\pm$ 0.160 χ^2/NDF : 48402.9/22

Left: 948.120 $\pm$ 0.112 χ^2/NDF : 656777.0/47

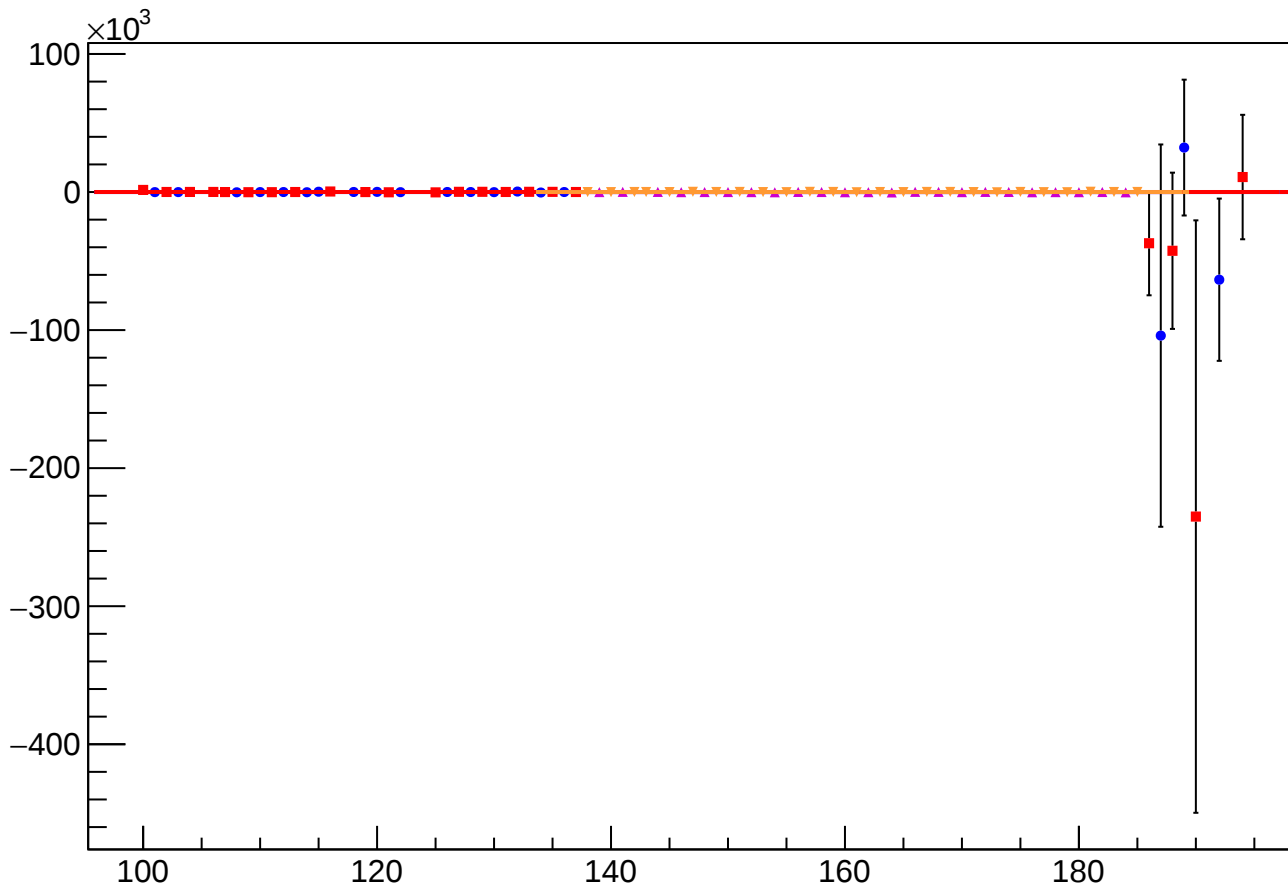
Right: 1191.924 $\pm$ 0.203 χ^2/NDF : 2087452.7/41

In: 992.093 $\pm$ 0.140 χ^2/NDF : 1162122.3/41

Out: 1017.500 $\pm$ 0.138 χ^2/NDF : 2665827.0/47

All: 1005.033 $\pm$ 0.098 χ^2/NDF : 3844640.0/89

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.561+/-30.032 χ^2 /NDF: 18.1/18

Left Out: 4.556+/-20.959 χ^2 /NDF:22.5/24

Right Out: 31.718+/-30.492 χ^2 /NDF: 19.6/21

Left In: -22.931+/-21.584 χ^2 /NDF:22.5/22

Left: -8.784+/-15.037 χ^2 /NDF: 45.8/47

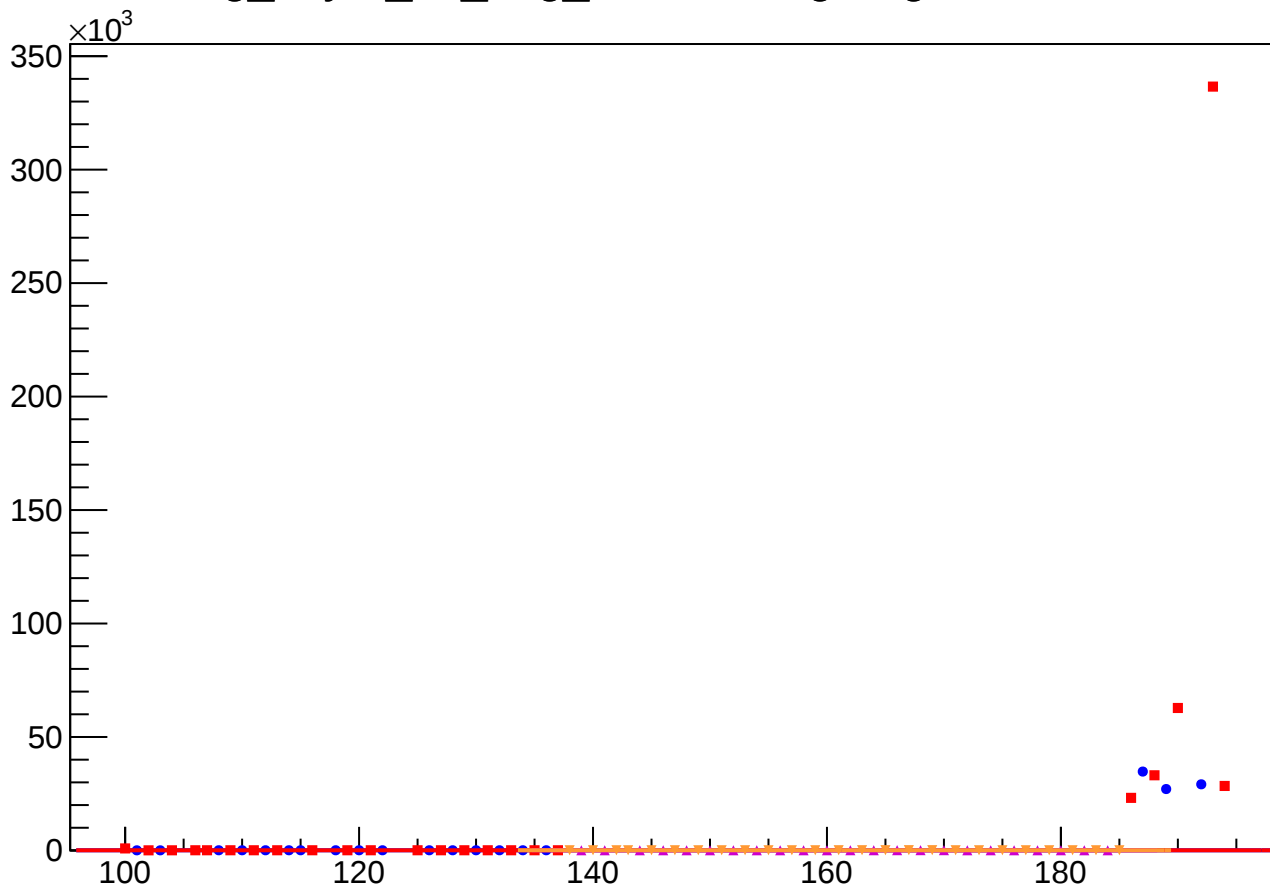
Right: 7.720+/-21.397 χ^2 /NDF: 38.9/40

In: -20.421+/-17.527 χ^2 /NDF:40.7/41

Out: 13.272+/-17.272 χ^2 /NDF:42.6/46

All: -3.328+/-12.302 χ^2 /NDF: 85.1/88

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.073 $\pm$ 0.021 χ^2 /NDF: 1637270.8/18

Left Out: 89.483 $\pm$ 0.015 χ^2 /NDF: 470330.2/24

Right Out: 79.411 $\pm$ 0.022 χ^2 /NDF: 2858540.2/22

Left In: 89.596 $\pm$ 0.015 χ^2 /NDF: 508511.1/22

Left: 89.538 $\pm$ 0.011 χ^2 /NDF: 978869.2/47

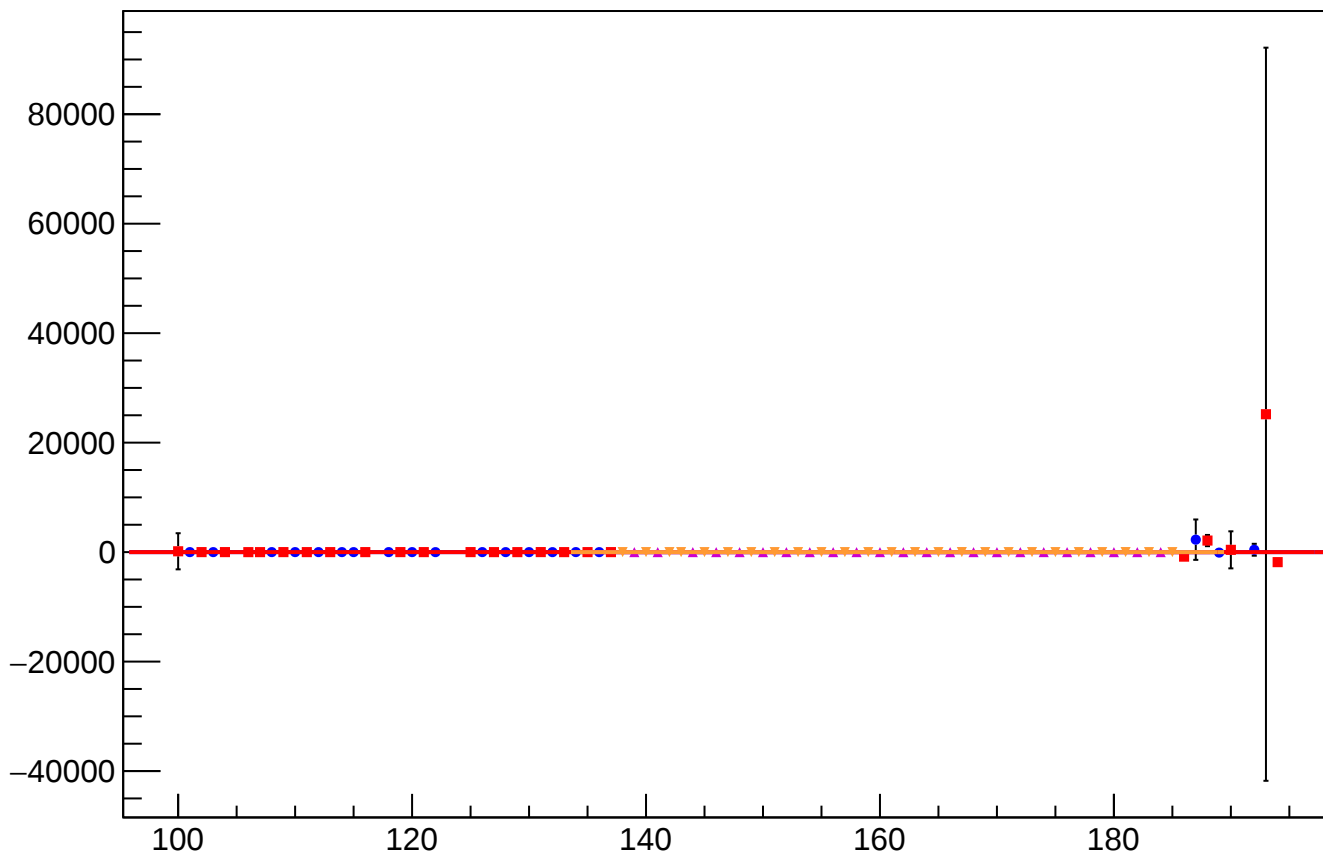
Right: 77.716 $\pm$ 0.015 χ^2 /NDF: 4507975.1/41

In: 84.990 $\pm$ 0.012 χ^2 /NDF: 2413163.5/41

Out: 86.251 $\pm$ 0.012 χ^2 /NDF: 3477093.4/47

All: 85.630 $\pm$ 0.009 χ^2 /NDF: 5895513.3/89

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 21.5/18

Left Out: 0.134 ± 0.367 χ^2/NDF : 21.3/24

Right Out: 0.038 ± 0.525 χ^2/NDF : 19.7/22

Left In: -0.519 ± 0.387 χ^2/NDF : 26.3/22

Left: -0.175 ± 0.266 χ^2/NDF : 49.2/47

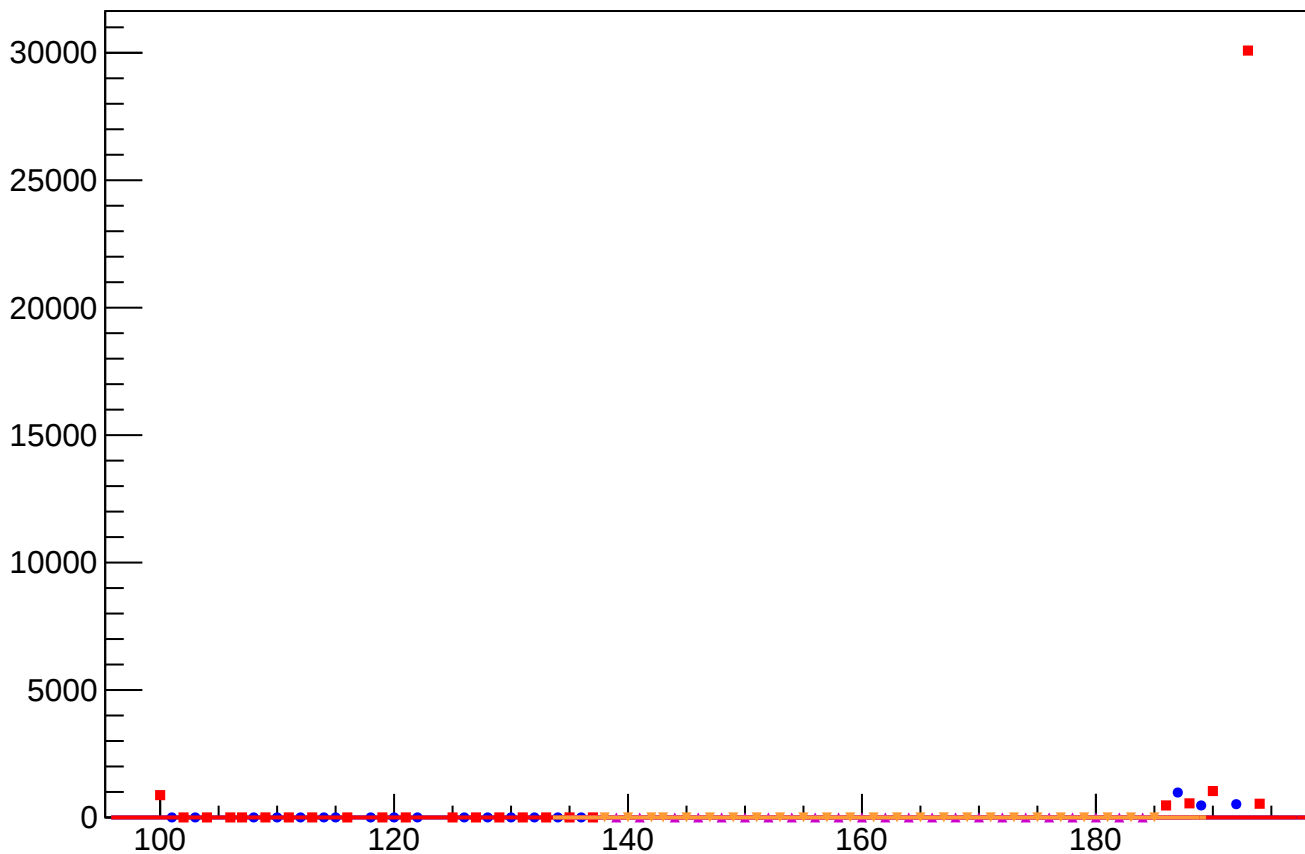
Right: -0.133 ± 0.363 χ^2/NDF : 41.3/41

In: -0.433 ± 0.306 χ^2/NDF : 47.9/41

Out: 0.102 ± 0.301 χ^2/NDF : 41.0/47

All: -0.161 ± 0.215 χ^2/NDF : 90.5/89

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.152 $\pm$ 0.000 χ^2 /NDF: 1628216.4/18

Left Out: 1.404 $\pm$ 0.000 χ^2 /NDF:992478.0/24

Right Out: 1.260 $\pm$ 0.000 χ^2 /NDF: 3097581.4/22

Left In: 1.453 $\pm$ 0.000 χ^2 /NDF:995852.2/22

Left: 1.427 $\pm$ 0.000 χ^2 /NDF: 2005229.5/47

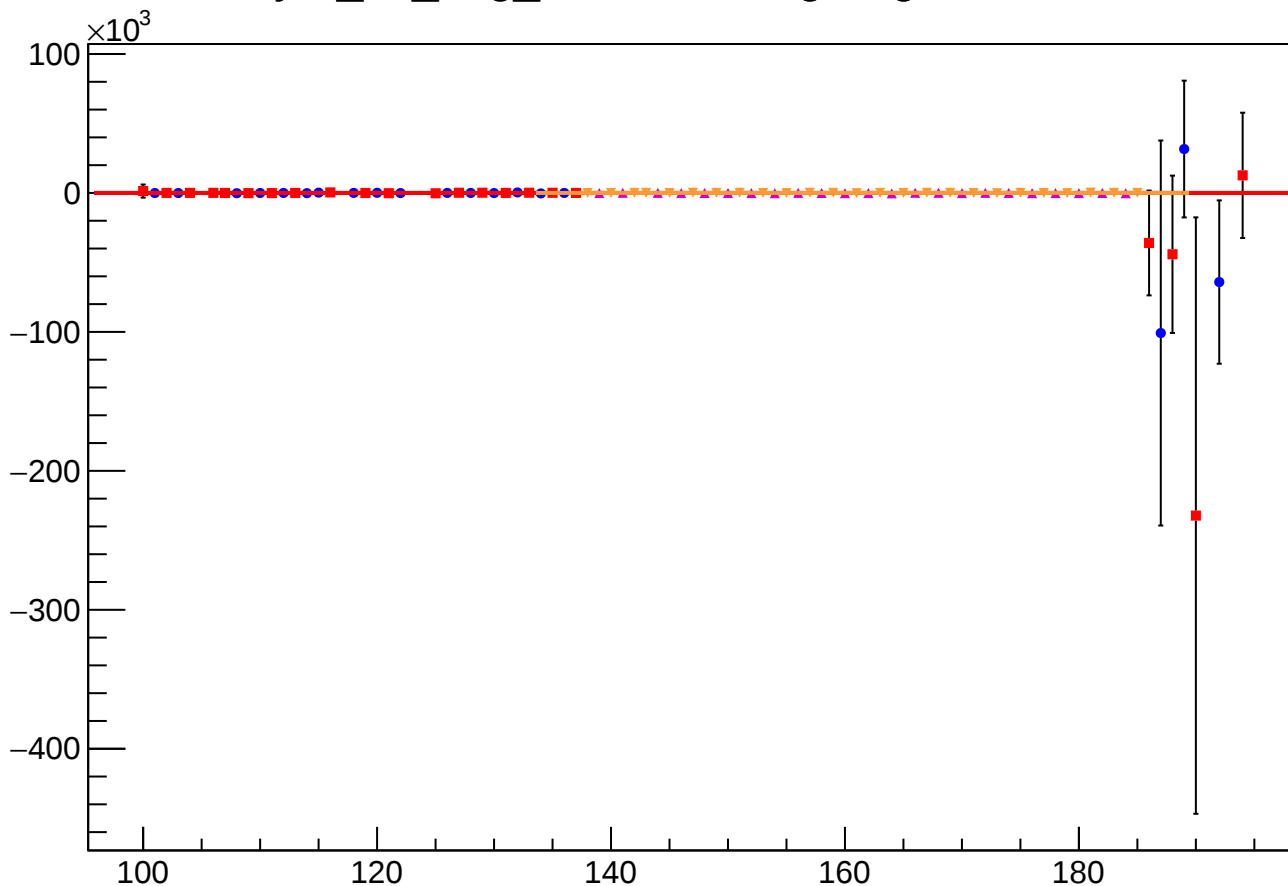
Right: 1.203 $\pm$ 0.000 χ^2 /NDF: 4769404.3/41

In: 1.341 $\pm$ 0.000 χ^2 /NDF:3075018.9/41

Out: 1.357 $\pm$ 0.000 χ^2 /NDF:4191880.1/47

All: 1.349 $\pm$ 0.000 χ^2 /NDF: 7269570.8/89

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.497 ± 30.040 $\chi^2/\text{NDF}: 18.4/18$

Left Out: 4.417 ± 20.966 $\chi^2/\text{NDF}: 22.1/24$

Right Out: 31.998 ± 30.500 $\chi^2/\text{NDF}: 19.6/21$

Left In: -22.446 ± 21.591 $\chi^2/\text{NDF}: 22.3/22$

Left: -8.619 ± 15.041 $\chi^2/\text{NDF}: 45.3/47$

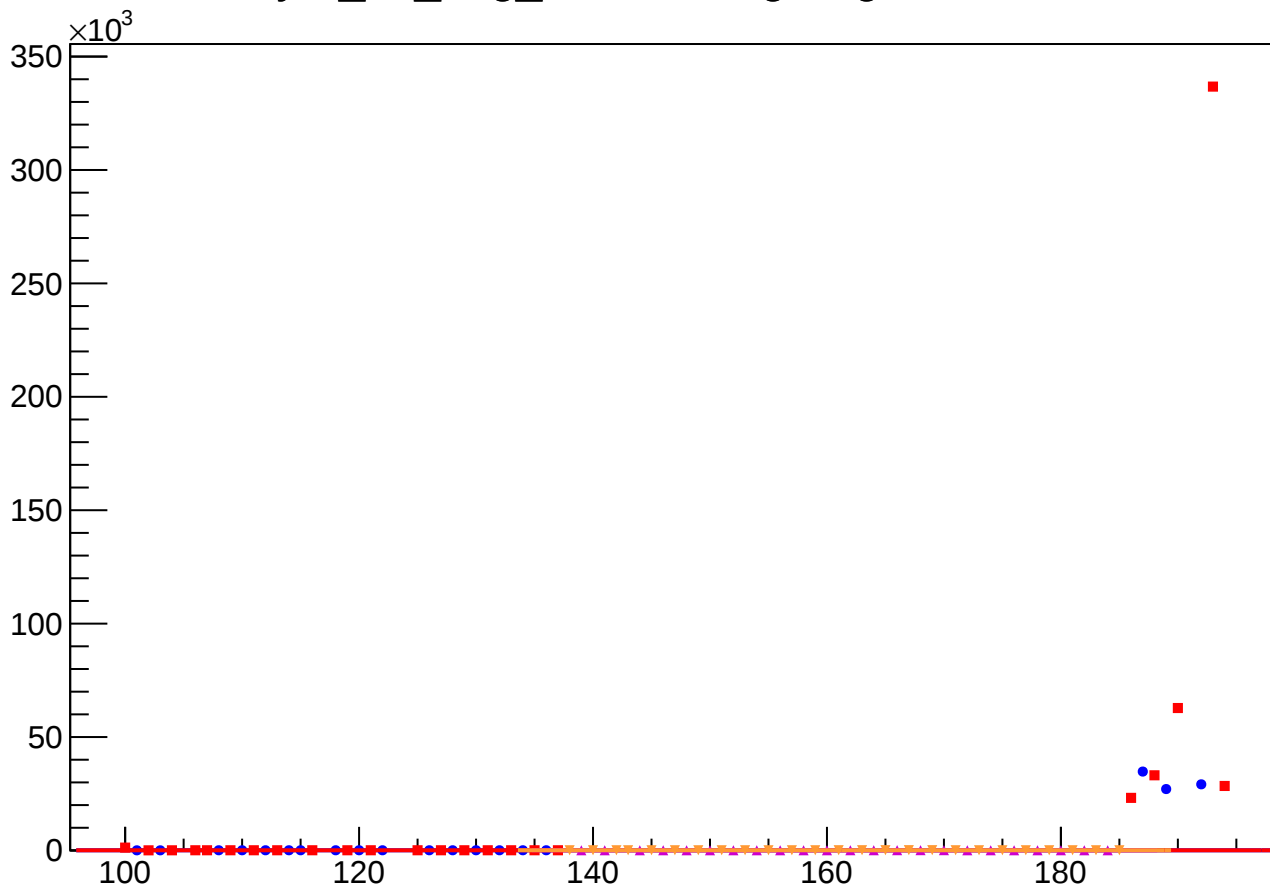
Right: 8.397 ± 21.402 $\chi^2/\text{NDF}: 39.1/40$

In: -19.738 ± 17.532 $\chi^2/\text{NDF}: 40.7/41$

Out: 13.268 ± 17.277 $\chi^2/\text{NDF}: 42.2/46$

All: -2.993 ± 12.306 $\chi^2/\text{NDF}: 84.8/88$

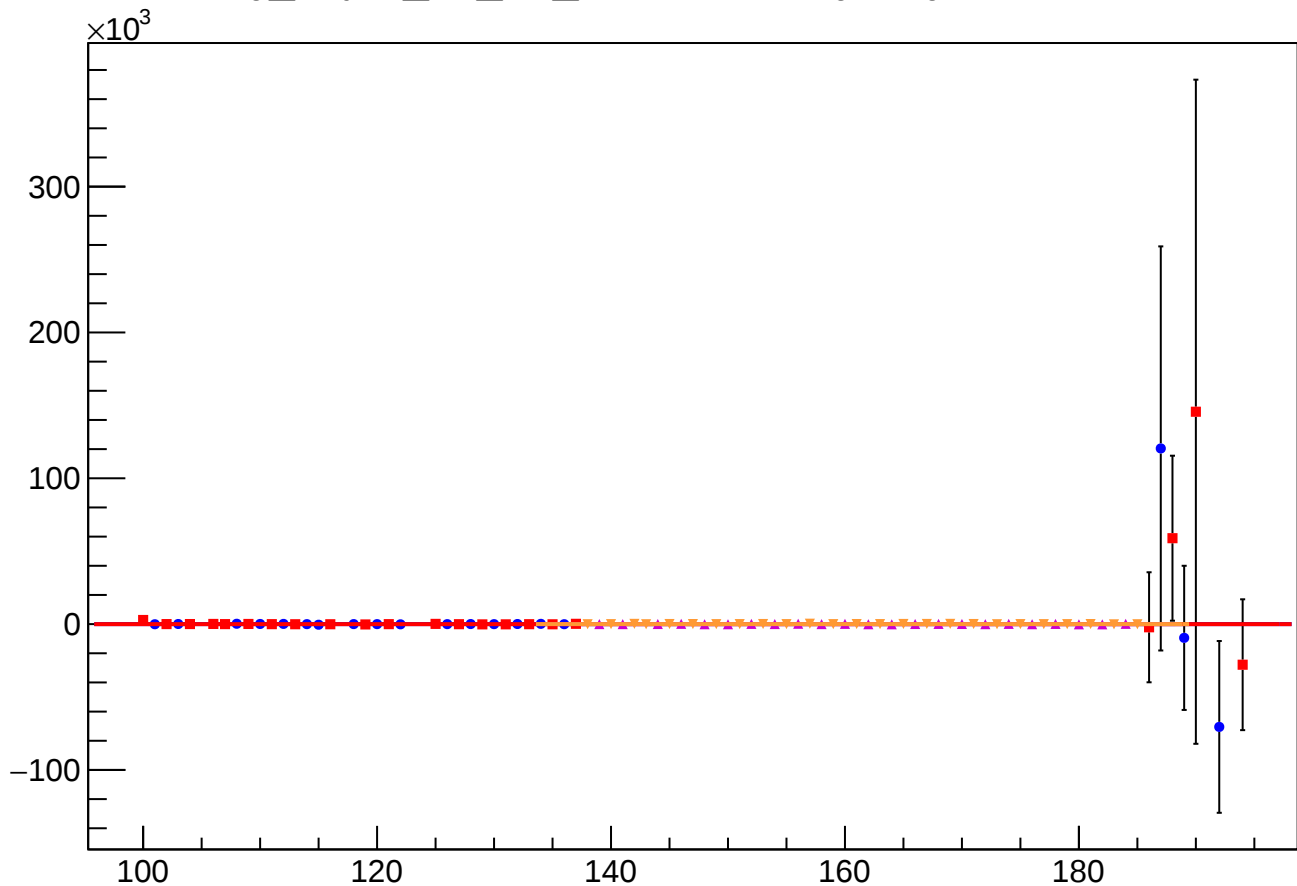
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.093 $\pm$ 0.021 χ^2 /NDF: 1637293.8/18
 Left Out: 89.510 $\pm$ 0.015 χ^2 /NDF: 471081.1/24
 Right Out: 79.414 $\pm$ 0.022 χ^2 /NDF: 2865116.3/22
 Left In: 89.622 $\pm$ 0.015 χ^2 /NDF: 509391.8/22

Left: 89.564 $\pm$ 0.011 χ^2 /NDF: 980500.8/47
 Right: 77.728 $\pm$ 0.015 χ^2 /NDF: 4514448.2/41
 In: 85.014 $\pm$ 0.012 χ^2 /NDF: 2414189.5/41
 Out: 86.270 $\pm$ 0.012 χ^2 /NDF: 3485014.5/47
 All: 85.651 $\pm$ 0.009 χ^2 /NDF: 5904415.2/89

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.097 $\pm$ 30.012 χ^2/NDF : 16.2/18

Left Out: 9.877 $\pm$ 20.965 χ^2/NDF : 18.5/24

Right Out: -25.769 $\pm$ 30.473 χ^2/NDF : 14.7/21

Left In: 43.424 $\pm$ 21.593 χ^2/NDF : 31.4/22

Left: 26.155 $\pm$ 15.042 χ^2/NDF : 51.2/47

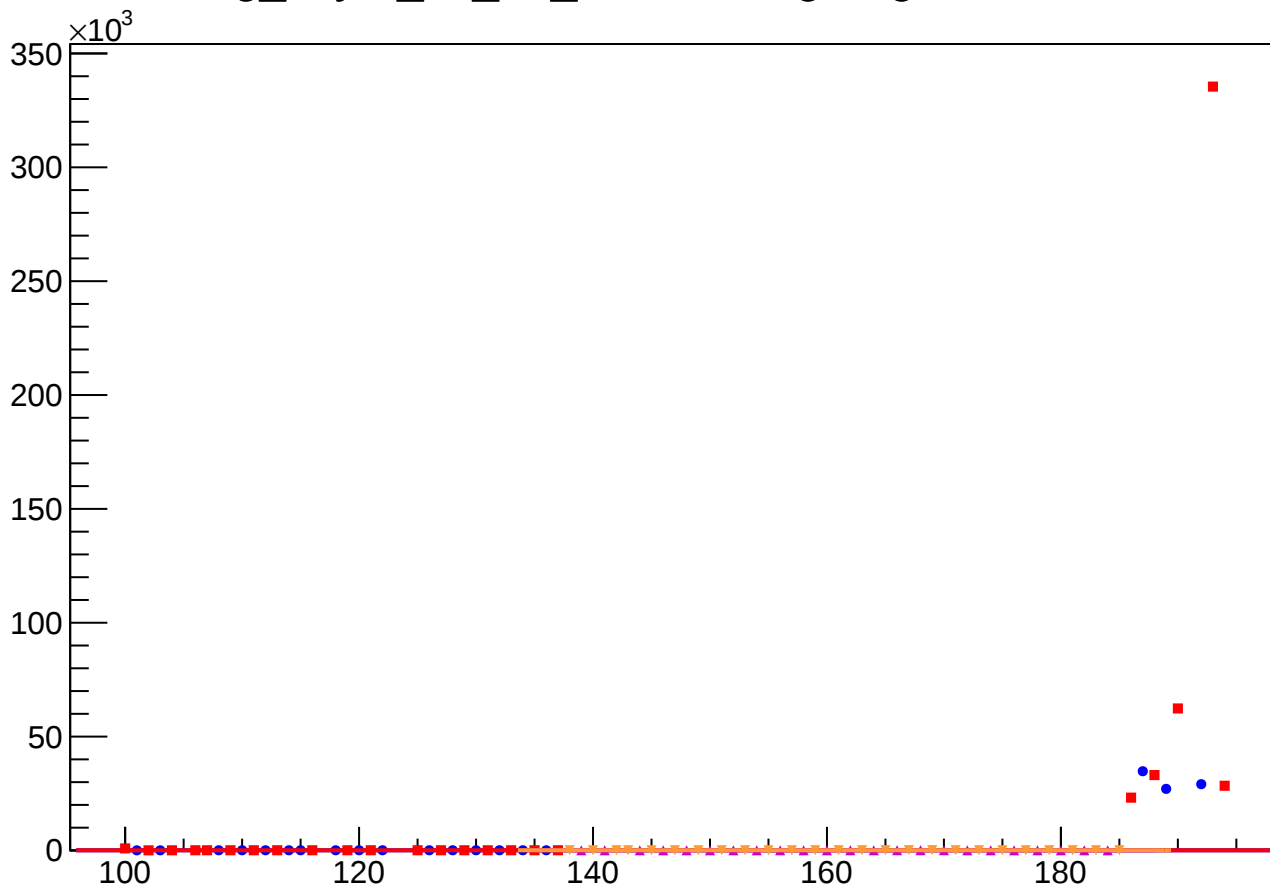
Right: -8.578 $\pm$ 21.383 χ^2/NDF : 31.5/40

In: 31.374 $\pm$ 17.528 χ^2/NDF : 48.6/41

Out: -1.574 $\pm$ 17.272 χ^2/NDF : 34.1/46

All: 14.658 $\pm$ 12.303 χ^2/NDF : 84.5/88

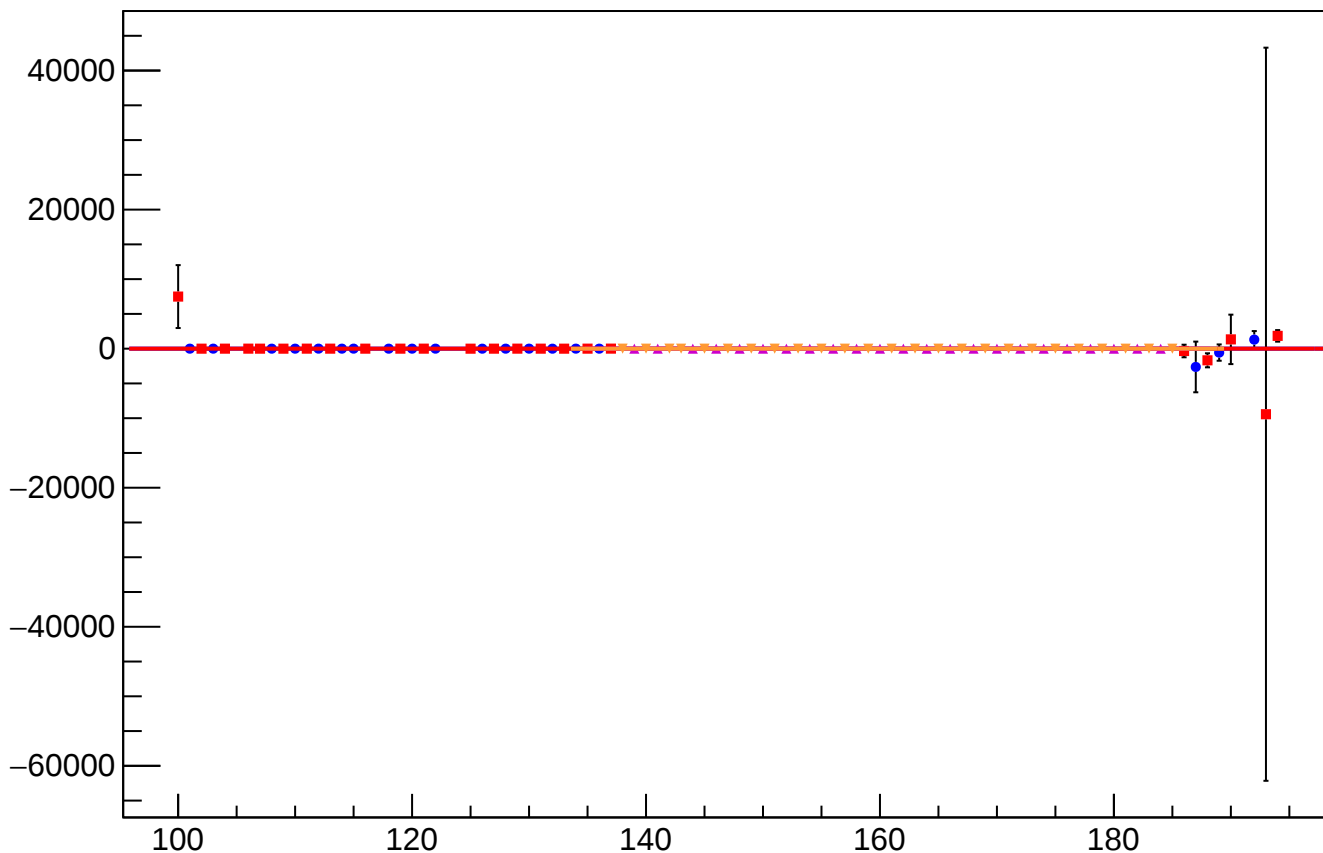
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.023 $\pm$ 0.021 χ^2 /NDF: 1636645.4/18
 Left Out: 89.507 $\pm$ 0.015 χ^2 /NDF: 468988.9/24
 Right Out: 79.362 $\pm$ 0.022 χ^2 /NDF: 2857980.2/22
 Left In: 89.628 $\pm$ 0.015 χ^2 /NDF: 511042.3/22

Left: 89.566 $\pm$ 0.011 χ^2 /NDF: 980063.3/47
 Right: 77.667 $\pm$ 0.015 χ^2 /NDF: 4506810.6/41
 In: 84.987 $\pm$ 0.012 χ^2 /NDF: 2418461.0/41
 Out: 86.248 $\pm$ 0.012 χ^2 /NDF: 3477437.0/47
 All: 85.627 $\pm$ 0.009 χ^2 /NDF: 5901145.7/89

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.531 χ^2 /NDF: 13.8/18

Left Out: -0.517 $\pm$ 0.382 χ^2 /NDF:20.7/24

Right Out: 0.348 $\pm$ 0.549 χ^2 /NDF: 21.4/22

Left In: -0.072 $\pm$ 0.390 χ^2 /NDF:20.4/22

Left: -0.299 $\pm$ 0.273 χ^2 /NDF: 41.7/47

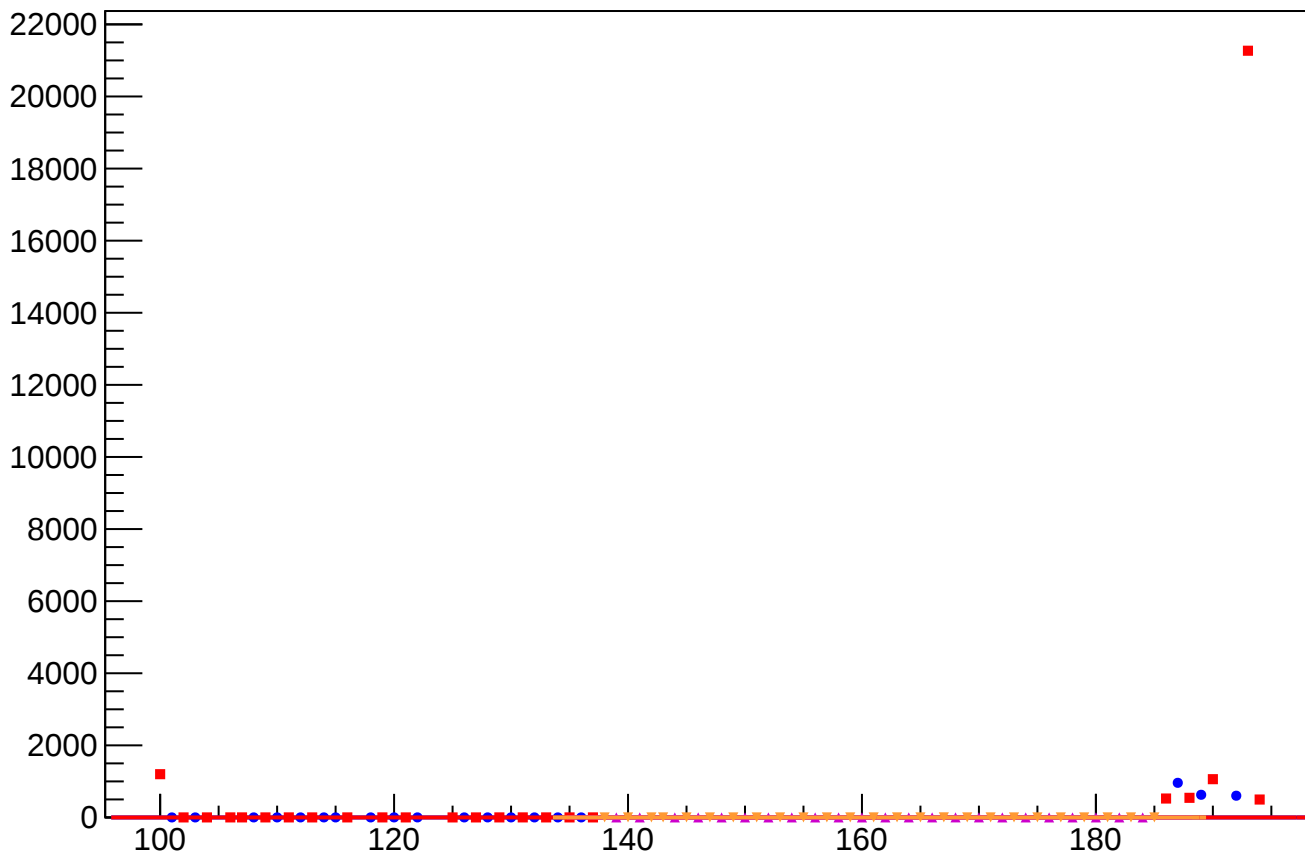
Right: 0.629 $\pm$ 0.382 χ^2 /NDF: 35.7/41

In: 0.266 $\pm$ 0.315 χ^2 /NDF:36.3/41

Out: -0.235 $\pm$ 0.314 χ^2 /NDF:43.8/47

All: 0.015 $\pm$ 0.222 χ^2 /NDF: 81.4/89

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.233+/-0.000 χ^2/NDF : 1816268.5/18

Left Out: 1.472+/-0.000 χ^2/NDF :1156063.1/24

Right Out: 1.316+/-0.000 χ^2/NDF : 2996220.5/22

Left In: 1.461+/-0.000 χ^2/NDF :1048537.6/22

Left: 1.467+/-0.000 χ^2/NDF : 2205449.5/47

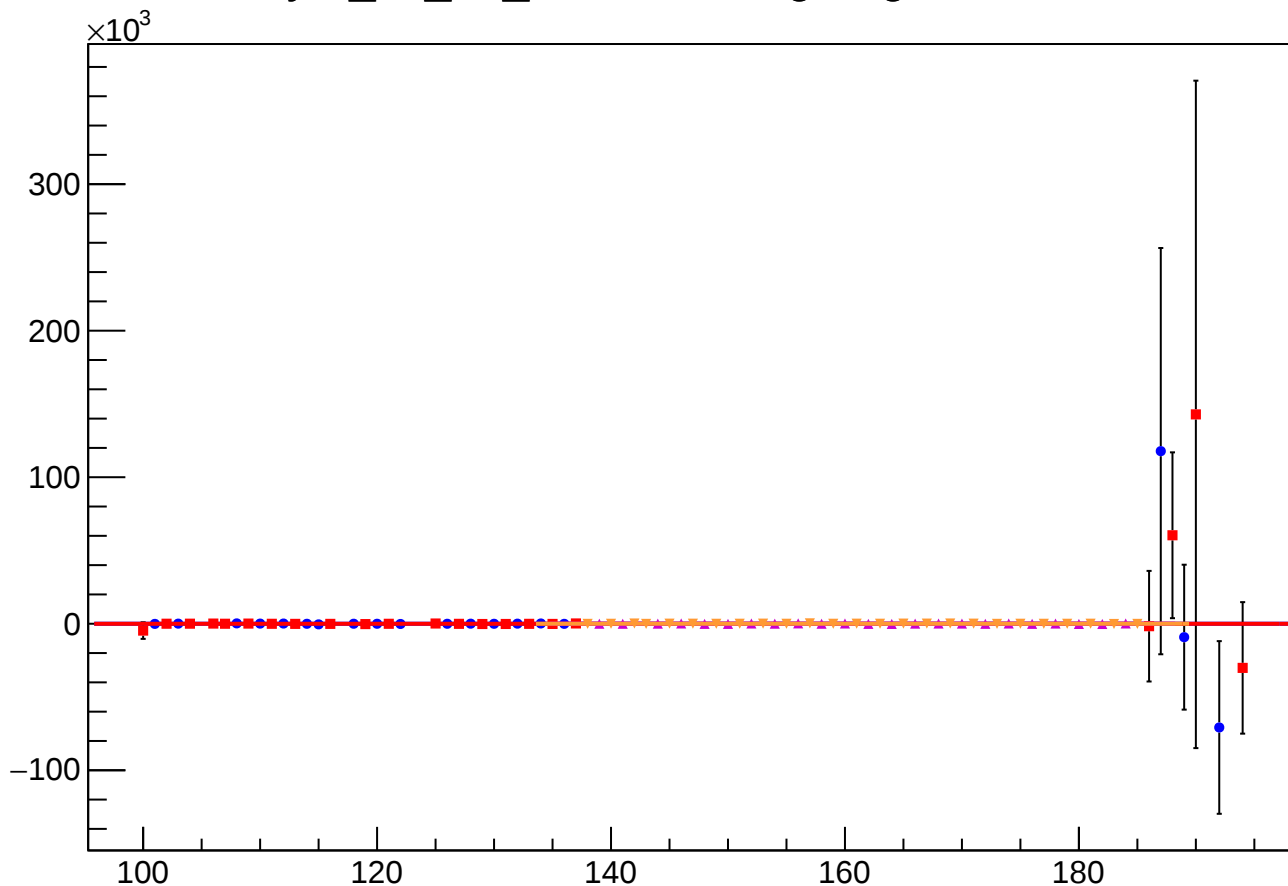
Right: 1.273+/-0.000 χ^2/NDF : 4835850.0/41

In: 1.381+/-0.000 χ^2/NDF :3103417.2/41

Out: 1.421+/-0.000 χ^2/NDF :4261700.7/47

All: 1.401+/-0.000 χ^2/NDF : 7381330.2/89

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.390 ± 30.020 χ^2/NDF : 16.1/18

Left Out: 10.423 ± 20.971 χ^2/NDF : 18.4/24

Right Out: -26.379 ± 30.482 χ^2/NDF : 15.0/21

Left In: 43.905 ± 21.600 χ^2/NDF : 31.1/22

Left: 26.670 ± 15.046 χ^2/NDF : 50.7/47

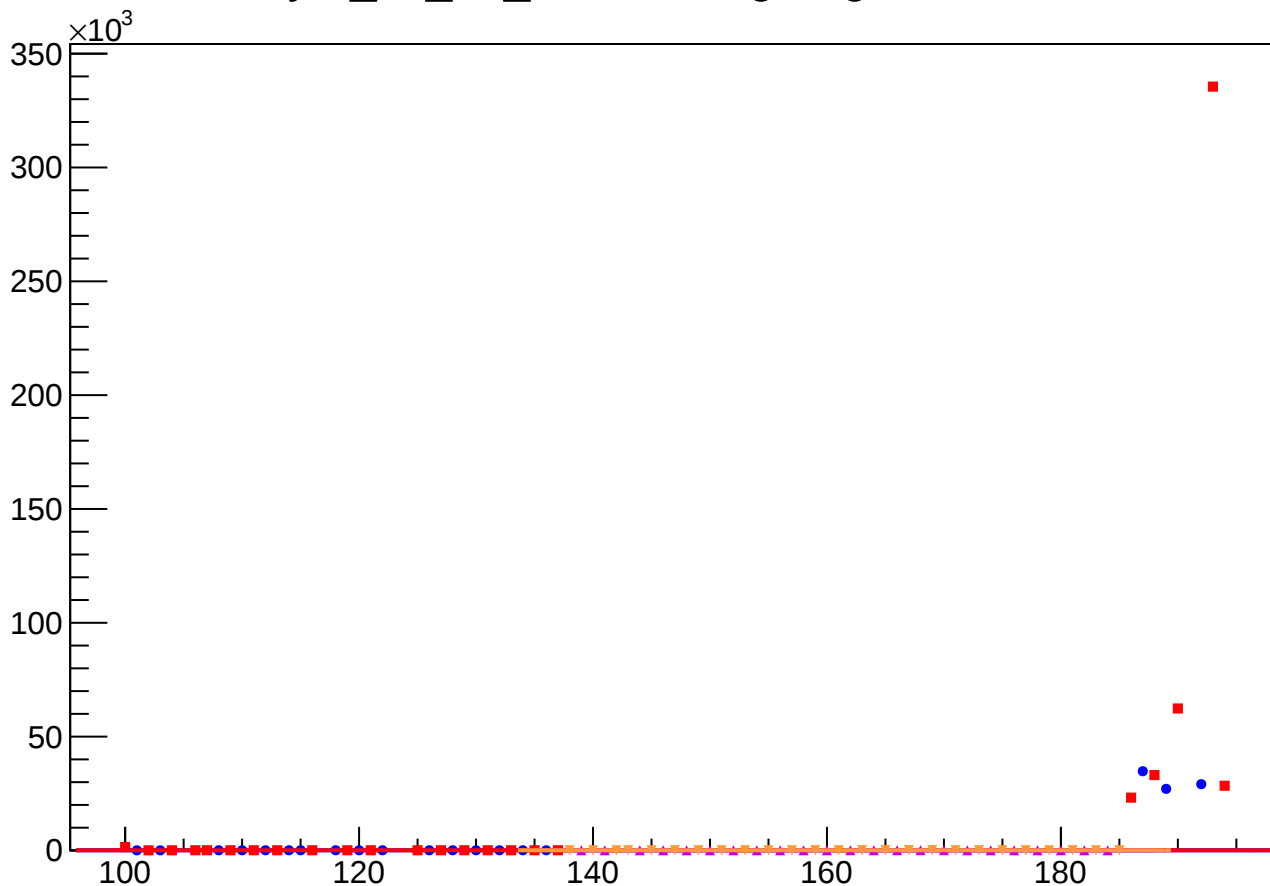
Right: -9.237 ± 21.389 χ^2/NDF : 31.7/40

In: 31.449 ± 17.533 χ^2/NDF : 48.2/41

Out: -1.400 ± 17.277 χ^2/NDF : 34.3/46

All: 14.783 ± 12.306 χ^2/NDF : 84.3/88

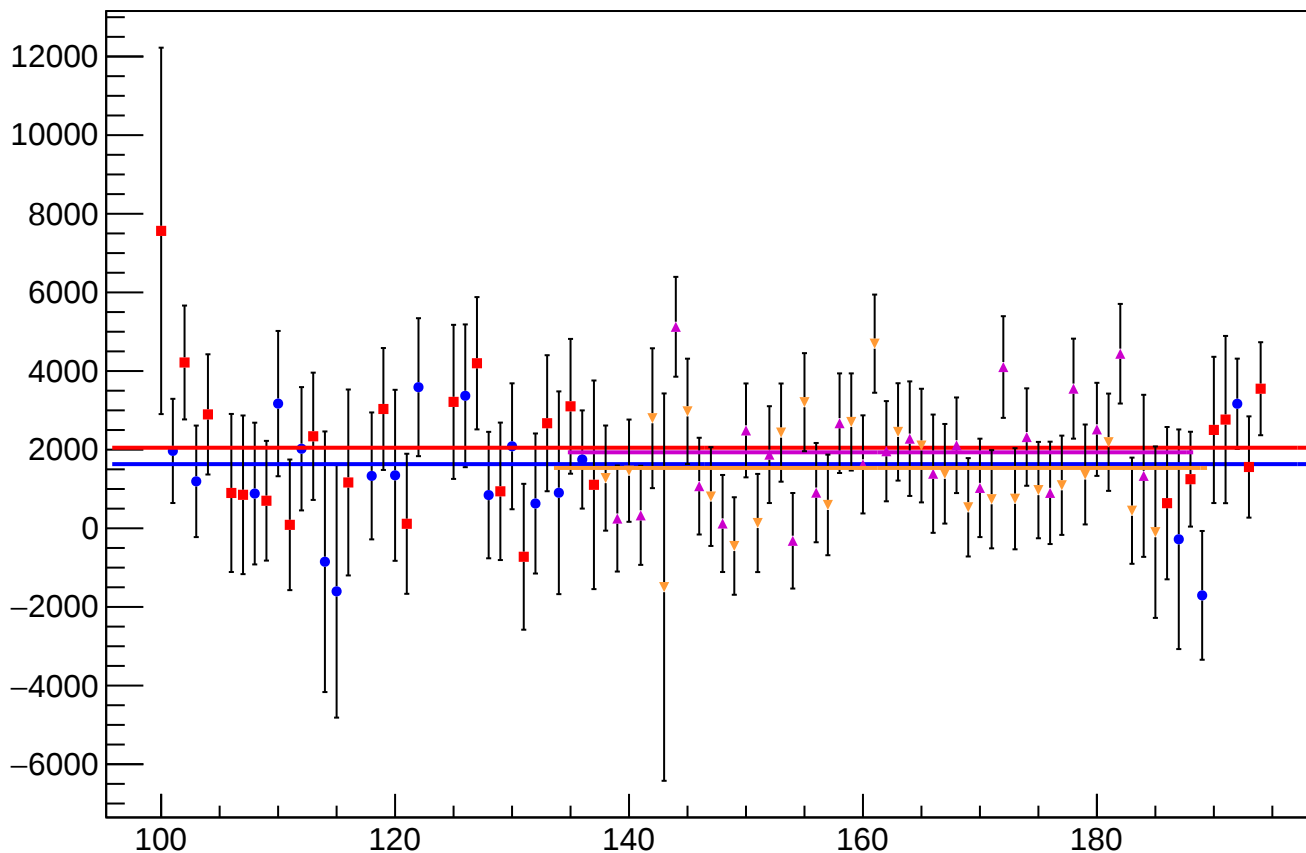
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.044 $\pm$ 0.021 χ^2 /NDF: 1636696.9/18
 Left Out: 89.535 $\pm$ 0.015 χ^2 /NDF: 469743.0/24
 Right Out: 79.359 $\pm$ 0.022 χ^2 /NDF: 2867264.7/22
 Left In: 89.655 $\pm$ 0.015 χ^2 /NDF: 511848.9/22

Left: 89.593 $\pm$ 0.011 χ^2 /NDF: 981623.6/47
 Right: 77.676 $\pm$ 0.015 χ^2 /NDF: 4515966.1/41
 In: 85.012 $\pm$ 0.012 χ^2 /NDF: 2419415.1/41
 Out: 86.265 $\pm$ 0.012 χ^2 /NDF: 3488294.9/47
 All: 85.648 $\pm$ 0.009 χ^2 /NDF: 5912896.3/89

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1632.220+/-388.407 χ^2/NDF : 12.0/18

Left Out: 1535.246+/-265.882 χ^2/NDF : 20.4/24

Right Out: 2049.501+/-345.878 χ^2/NDF : 16.7/23

Left In: 1933.000+/-268.006 χ^2/NDF : 27.0/22

Left: 1732.540+/-188.753 χ^2/NDF : 48.5/47

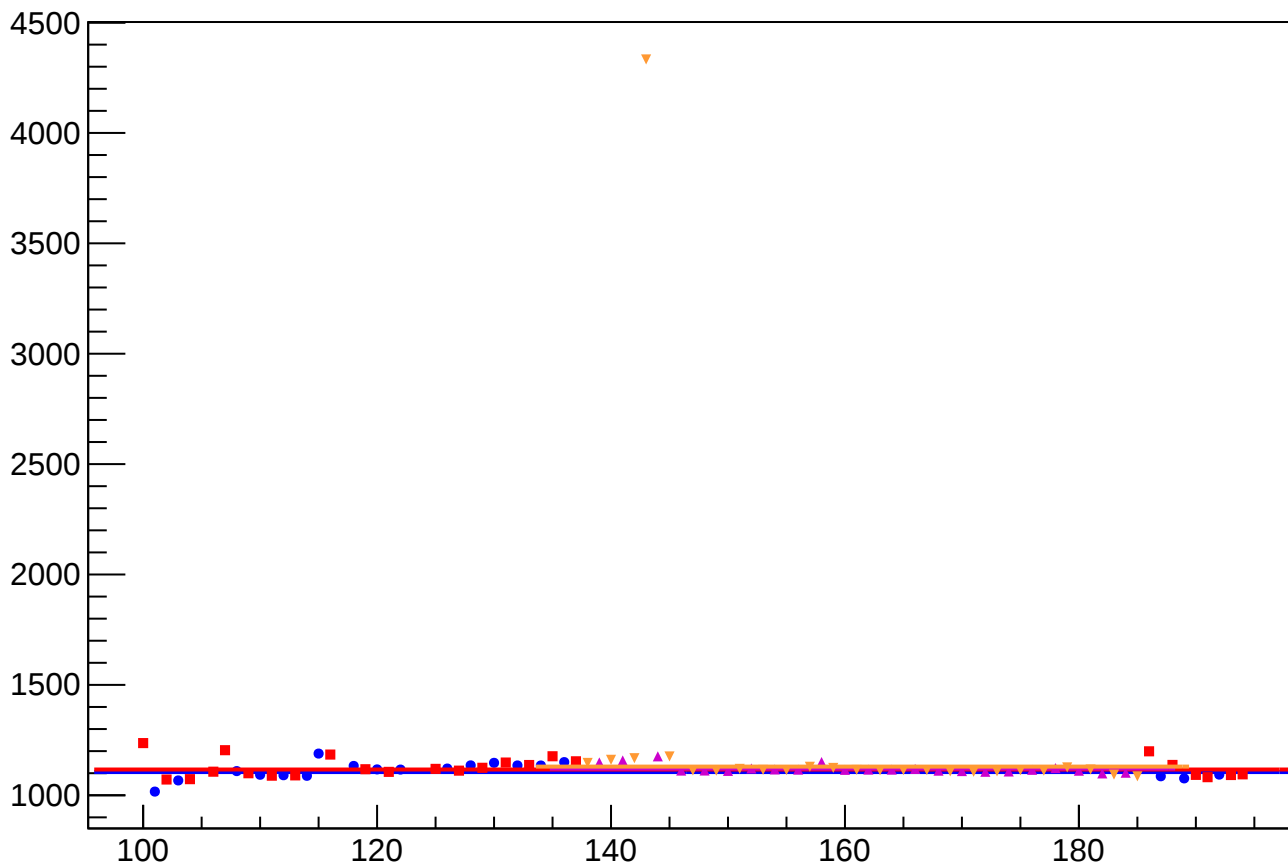
Right: 1864.948+/-258.305 χ^2/NDF : 29.4/42

In: 1835.984+/-220.589 χ^2/NDF : 39.4/41

Out: 1726.258+/-210.797 χ^2/NDF : 38.5/48

All: 1778.631+/-152.400 χ^2/NDF : 78.0/90

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.141+/-0.275 χ^2/NDF : 19322.3/18

Left Out: 1129.901+/-0.188 χ^2/NDF : 858259.9/24

Right Out: 1116.702+/-0.245 χ^2/NDF : 22070.1/23

Left In: 1120.991+/-0.190 χ^2/NDF : 9641.8/22

Left: 1125.481+/-0.133 χ^2/NDF : 869015.8/47

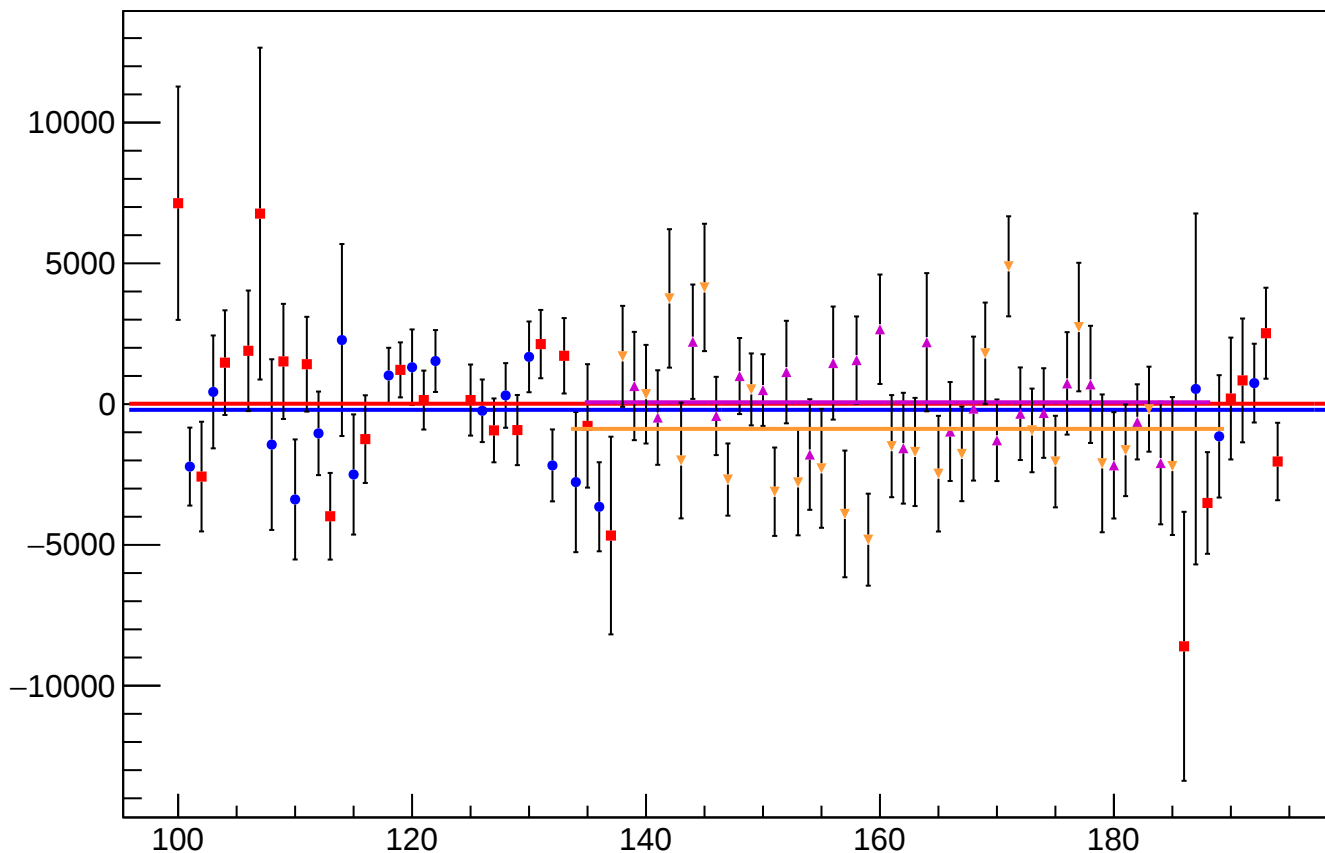
Right: 1111.589+/-0.183 χ^2/NDF : 42380.7/42

In: 1115.879+/-0.156 χ^2/NDF : 31220.4/41

Out: 1124.999+/-0.149 χ^2/NDF : 882160.7/48

All: 1120.645+/-0.108 χ^2/NDF : 915168.0/90

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -203.185 ± 345.009 $\chi^2/\text{NDF}: 23.2/18$

Left Out: -879.685 ± 355.692 $\chi^2/\text{NDF}: 43.5/24$

Right Out: 14.086 ± 324.368 $\chi^2/\text{NDF}: 37.3/23$

Left In: 65.738 ± 358.785 $\chi^2/\text{NDF}: 12.1/22$

Left: -411.067 ± 252.599 $\chi^2/\text{NDF}: 59.2/47$

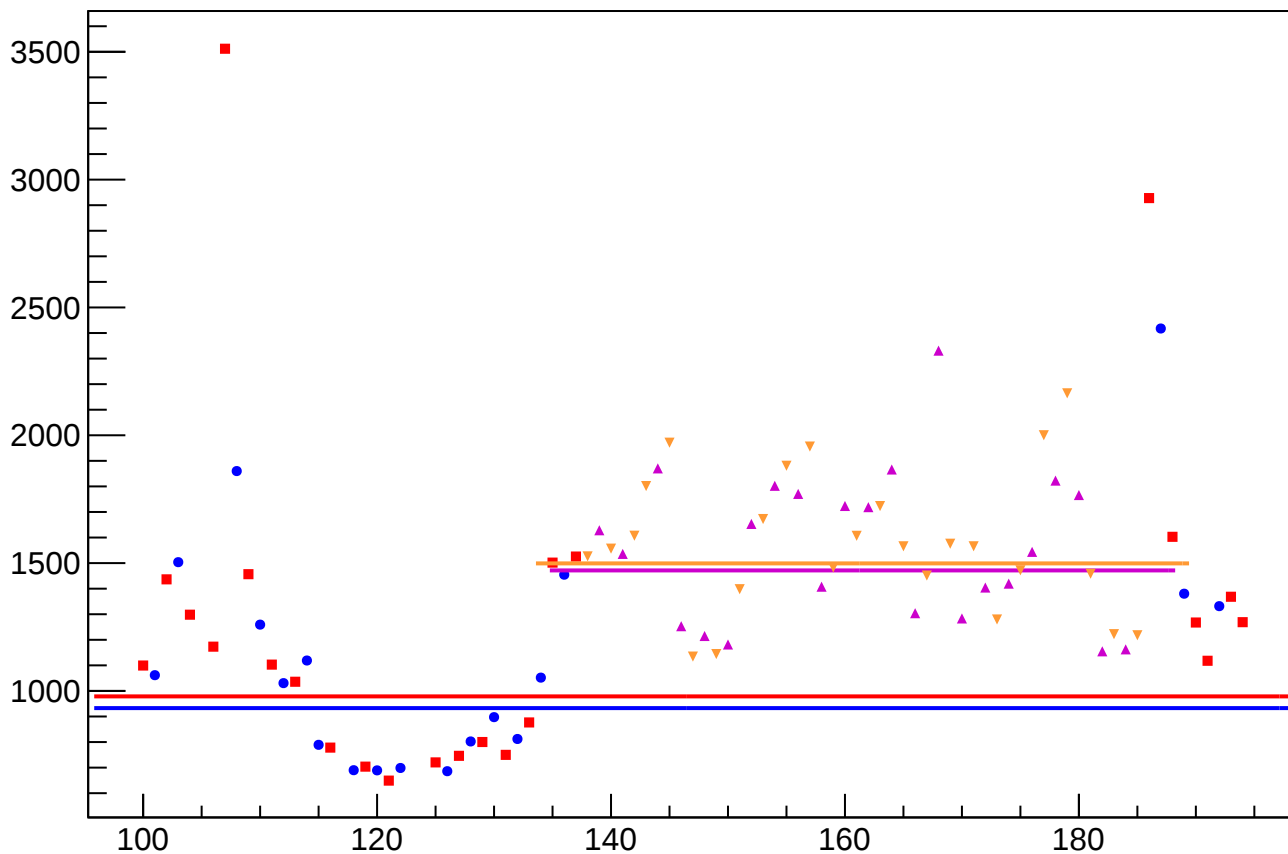
Right: -87.856 ± 236.323 $\chi^2/\text{NDF}: 60.7/42$

In: -73.986 ± 248.686 $\chi^2/\text{NDF}: 35.6/41$

Out: -391.719 ± 239.673 $\chi^2/\text{NDF}: 84.3/48$

All: -238.714 ± 172.573 $\chi^2/\text{NDF}: 120.8/90$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 932.814 $\pm$ 0.244 χ^2/NDF : 1443141.6/18

Left Out: 1498.849 $\pm$ 0.252 χ^2/NDF : 1053906.2/24

Right Out: 978.648 $\pm$ 0.229 χ^2/NDF : 2345214.5/23

Left In: 1471.394 $\pm$ 0.254 χ^2/NDF : 1105310.5/22

Left: 1485.240 $\pm$ 0.179 χ^2/NDF : 2165123.0/47

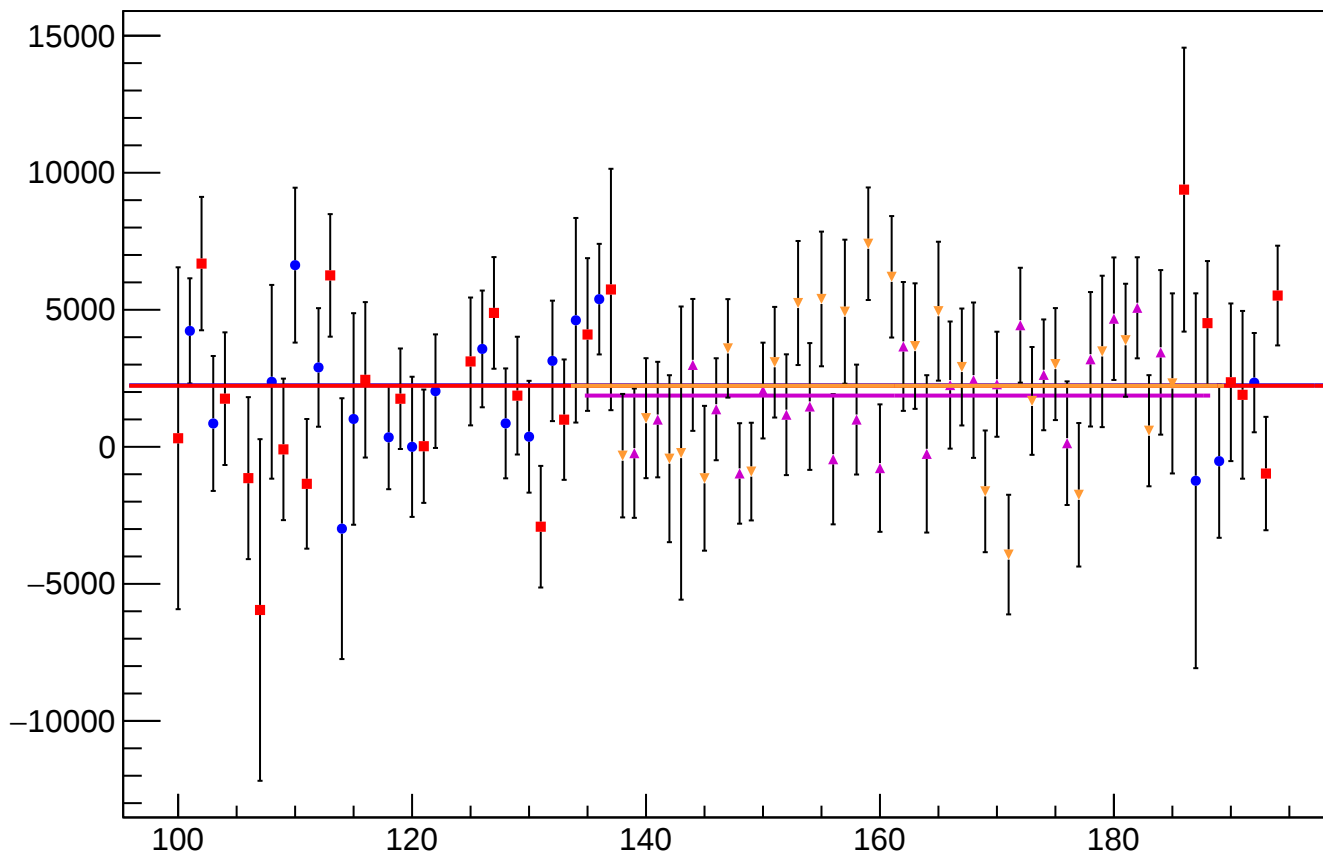
Right: 957.143 $\pm$ 0.167 χ^2/NDF : 3807091.9/42

In: 1191.565 $\pm$ 0.176 χ^2/NDF : 4889996.3/41

Out: 1214.838 $\pm$ 0.169 χ^2/NDF : 5734663.2/48

All: 1203.631 $\pm$ 0.122 χ^2/NDF : 10633740.5/95

asym_usl_mean vs Slug, Sign Corrected



Right In: 2243.940 $\pm$ 548.827 χ^2 /NDF: 12.9/18

Left Out: 2226.533 $\pm$ 454.821 χ^2 /NDF:38.8/24

Right Out: 2227.853 $\pm$ 505.201 χ^2 /NDF: 31.3/23

Left In: 1869.792 $\pm$ 455.465 χ^2 /NDF:14.9/22

Left: 2048.415 $\pm$ 321.834 χ^2 /NDF: 54.0/47

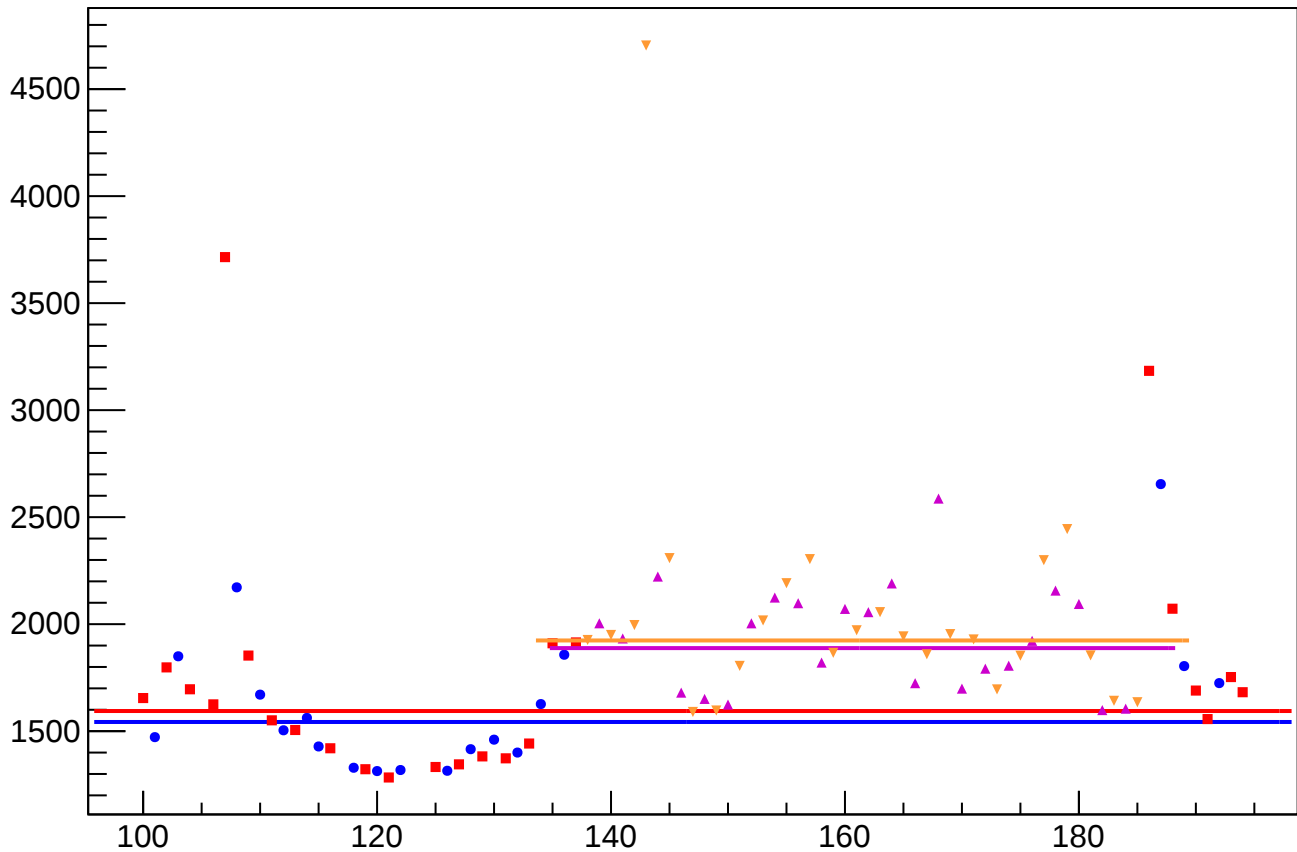
Right: 2235.232 $\pm$ 371.698 χ^2 /NDF: 44.3/42

In: 2022.382 $\pm$ 350.491 χ^2 /NDF:28.1/41

Out: 2227.124 $\pm$ 338.019 χ^2 /NDF:70.1/48

All: 2128.461 $\pm$ 243.305 χ^2 /NDF: 98.4/90

asym_usl_rms vs Slug, Sign Corrected



Right In: 1542.939+/-0.388 χ^2/NDF : 351379.0/18

Left Out: 1923.833+/-0.322 χ^2/NDF : 1006152.2/24

Right Out: 1594.176+/-0.357 χ^2/NDF : 806954.6/23

Left In: 1888.121+/-0.322 χ^2/NDF : 504568.6/22

Left: 1906.002+/-0.228 χ^2/NDF : 1516877.3/47

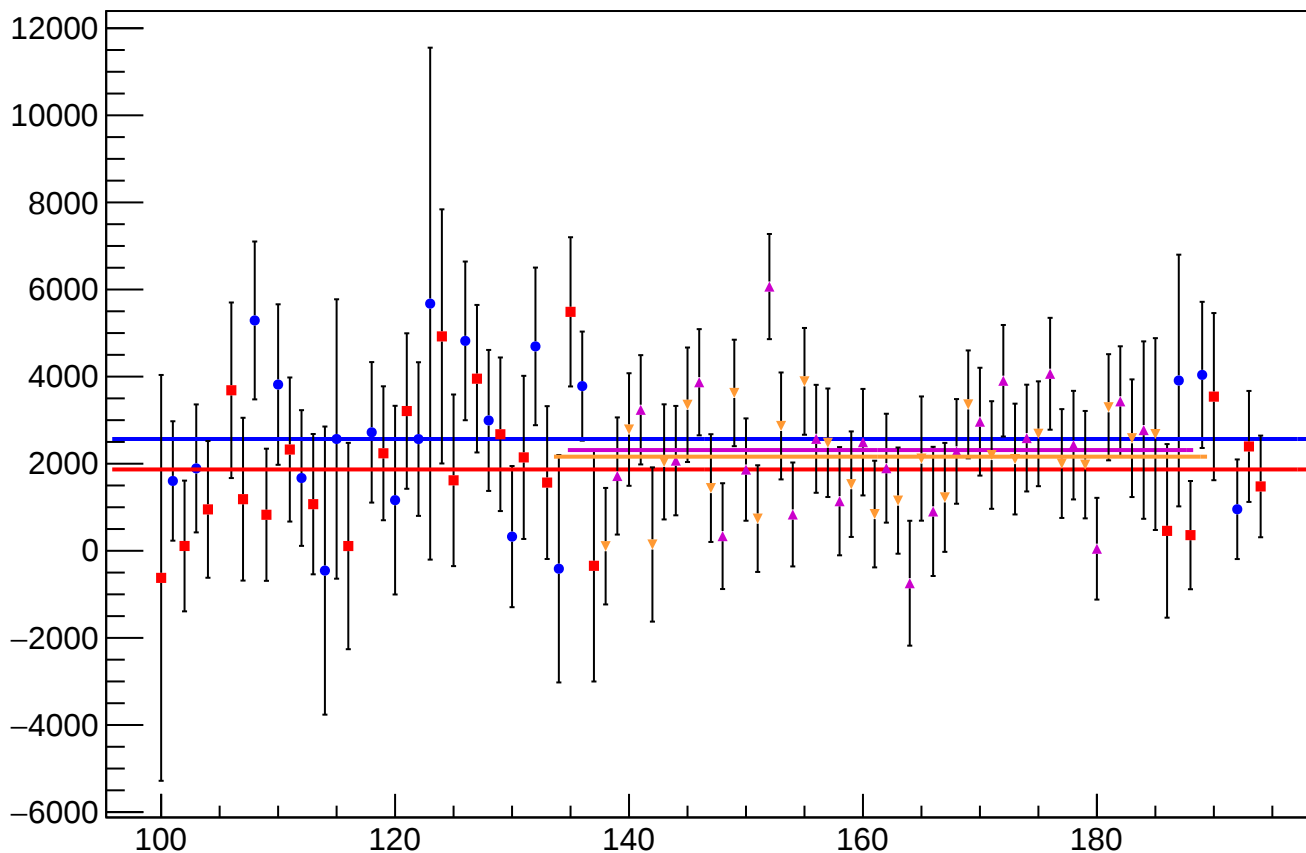
Right: 1570.675+/-0.263 χ^2/NDF : 1167769.2/42

In: 1747.344+/-0.248 χ^2/NDF : 1324436.4/41

Out: 1776.257+/-0.239 χ^2/NDF : 2283464.9/48

All: 1762.324+/-0.172 χ^2/NDF : 3614952.5/90

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2567.458 $\pm$ 391.195 χ^2 /NDF: 15.4/19

Left Out: 2161.427 $\pm$ 257.518 χ^2 /NDF:15.1/24

Right Out: 1868.198 $\pm$ 349.523 χ^2 /NDF: 16.0/23

Left In: 2313.505 $\pm$ 264.429 χ^2 /NDF:31.3/22

Left: 2235.453 $\pm$ 184.488 χ^2 /NDF: 46.5/47

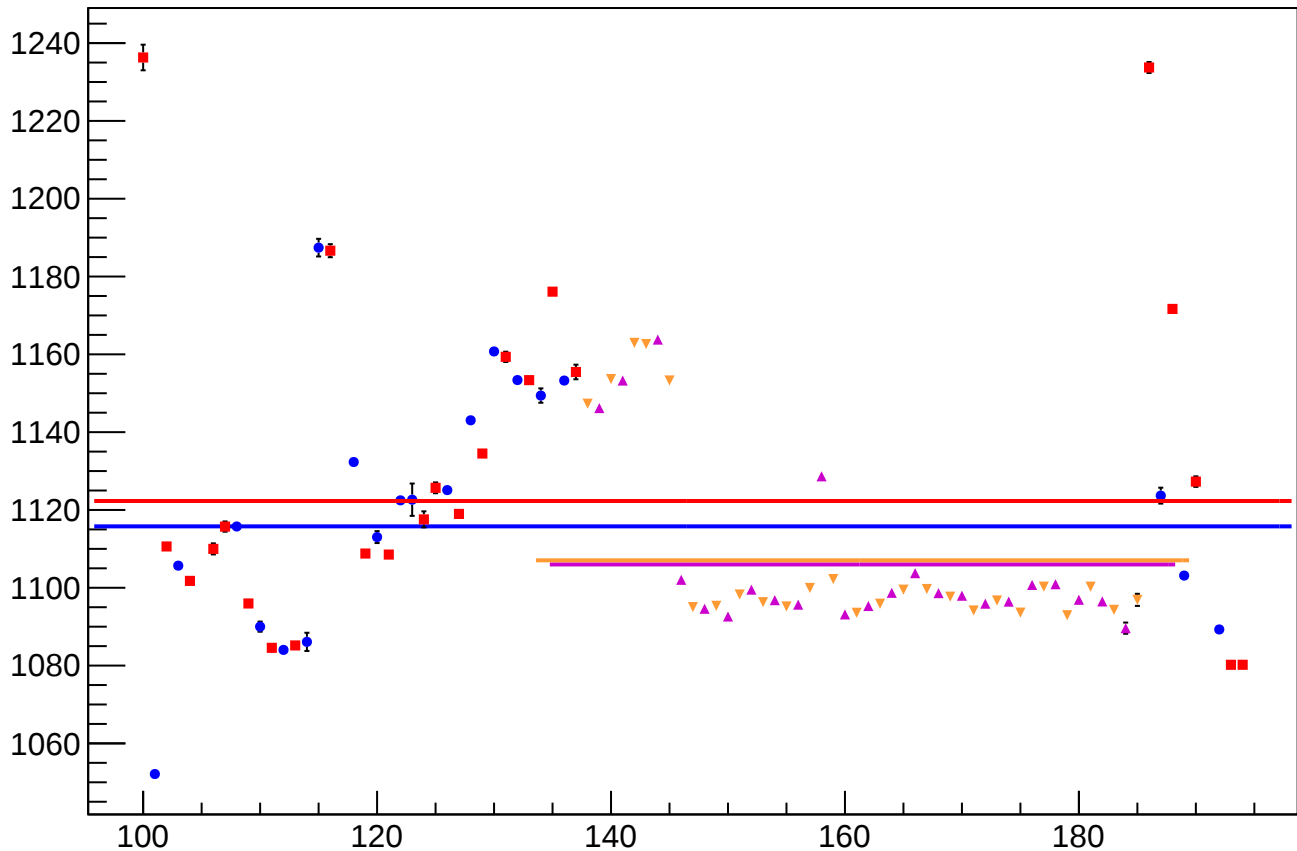
Right: 2178.613 $\pm$ 260.643 χ^2 /NDF: 33.2/43

In: 2393.149 $\pm$ 219.075 χ^2 /NDF:47.0/42

Out: 2058.258 $\pm$ 207.323 χ^2 /NDF:31.5/48

All: 2216.481 $\pm$ 150.583 χ^2 /NDF: 79.7/91

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1115.783 $\pm$ 0.277 χ^2 /NDF: 13378.5/19

Left Out: 1107.057 $\pm$ 0.182 χ^2 /NDF: 15175.6/24

Right Out: 1122.307 $\pm$ 0.247 χ^2 /NDF: 24226.8/23

Left In: 1105.997 $\pm$ 0.187 χ^2 /NDF: 11551.3/22

Left: 1106.541 $\pm$ 0.130 χ^2 /NDF: 26743.4/47

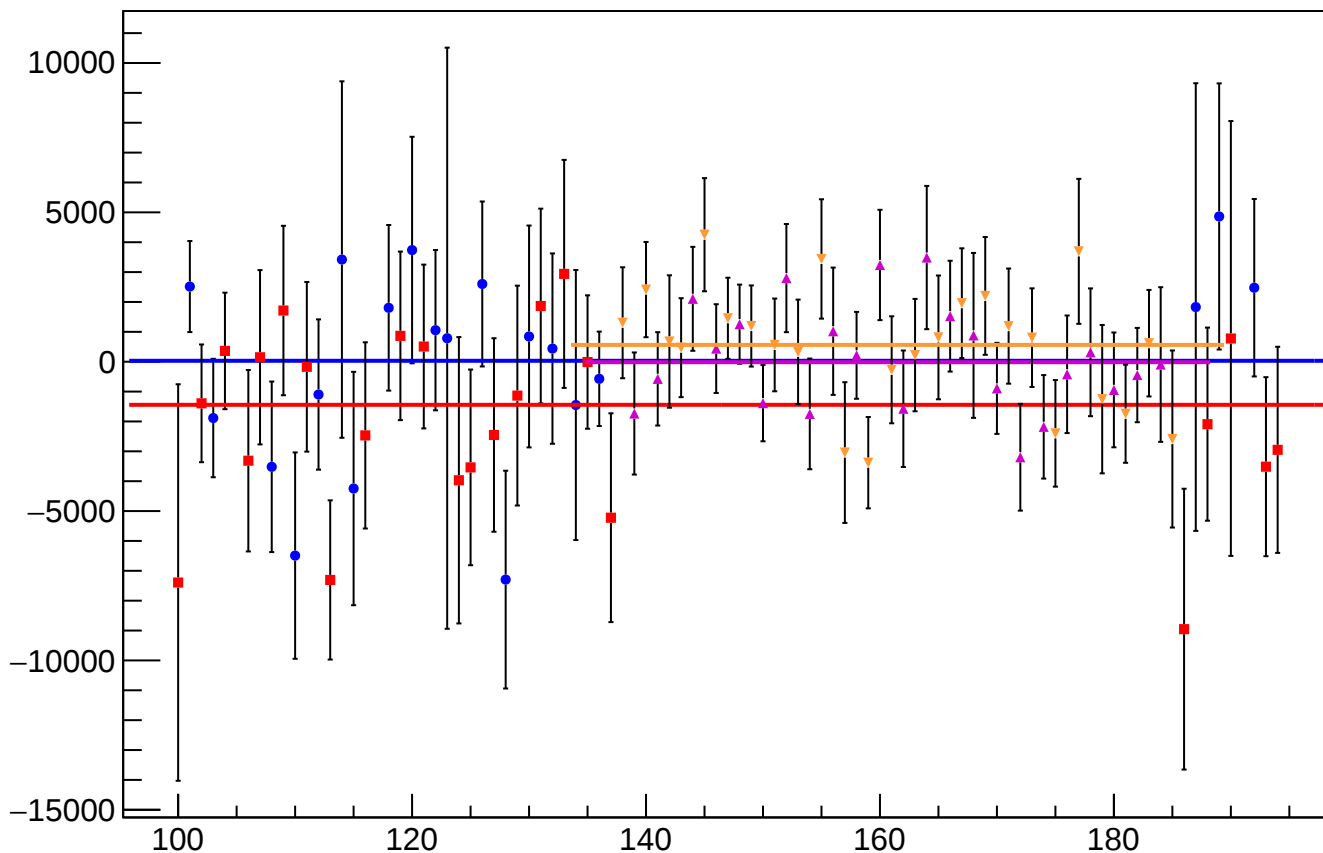
Right: 1119.411 $\pm$ 0.184 χ^2 /NDF: 37914.6/43

In: 1109.066 $\pm$ 0.155 χ^2 /NDF: 25789.0/42

Out: 1112.422 $\pm$ 0.147 χ^2 /NDF: 41870.2/48

All: 1110.836 $\pm$ 0.106 χ^2 /NDF: 67906.8/91

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 30.964 ± 632.347 $\chi^2/\text{NDF}: 19.1/19$

Left Out: 563.282 ± 360.901 $\chi^2/\text{NDF}: 26.8/24$

Right Out: -1443.217 ± 617.063 $\chi^2/\text{NDF}: 18.0/23$

Left In: -15.520 ± 366.854 $\chi^2/\text{NDF}: 20.1/22$

Left: 278.615 ± 257.275 $\chi^2/\text{NDF}: 48.2/47$

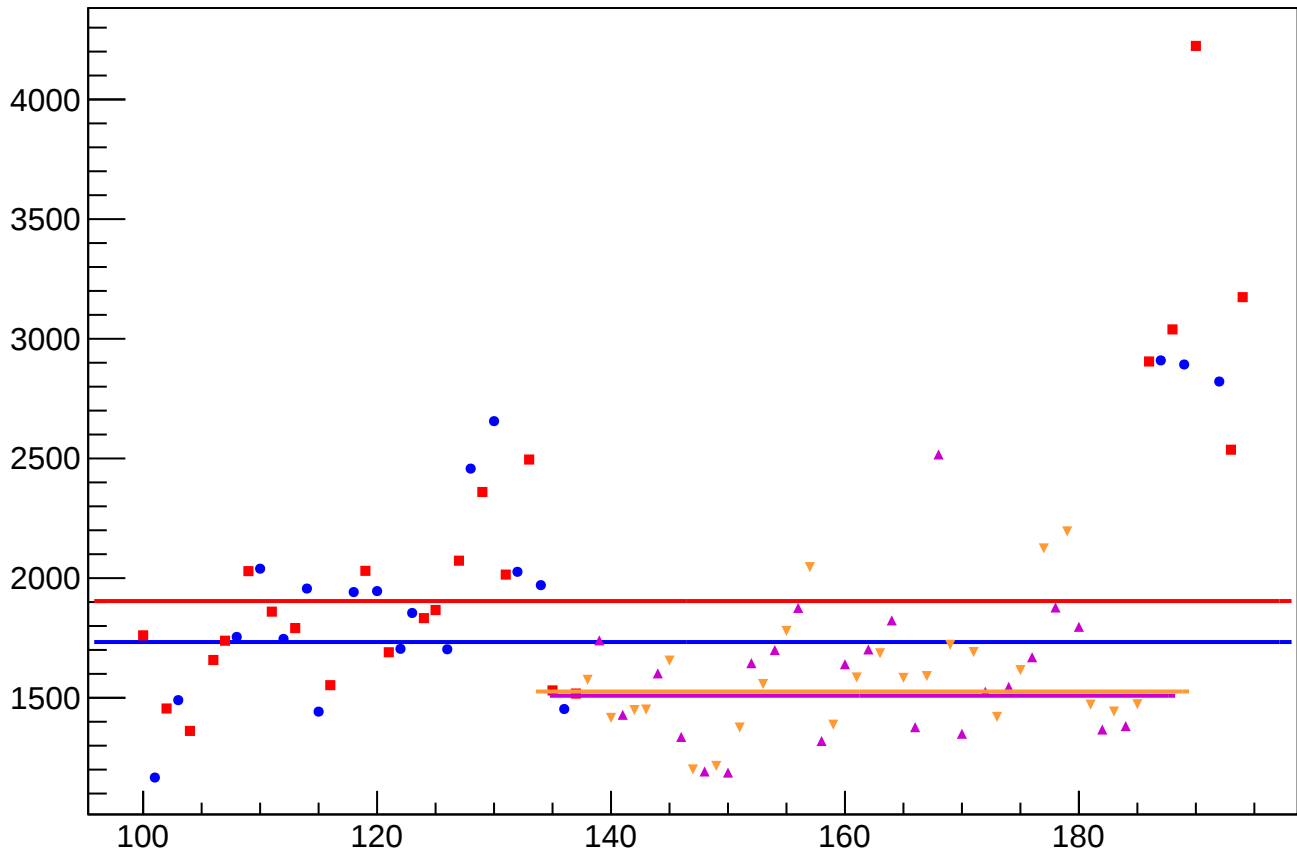
Right: -724.157 ± 441.634 $\chi^2/\text{NDF}: 39.8/43$

In: -3.815 ± 317.320 $\chi^2/\text{NDF}: 39.2/42$

Out: 51.858 ± 311.530 $\chi^2/\text{NDF}: 52.6/48$

All: 24.534 ± 222.304 $\chi^2/\text{NDF}: 91.9/91$

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1733.013+/-0.447 χ^2/NDF : 1095620.3/19

Left Out: 1526.391+/-0.255 χ^2/NDF : 753714.4/24

Right Out: 1904.291+/-0.436 χ^2/NDF : 1396608.9/23

Left In: 1508.581+/-0.259 χ^2/NDF : 931684.8/22

Left: 1517.632+/-0.182 χ^2/NDF : 1687794.7/47

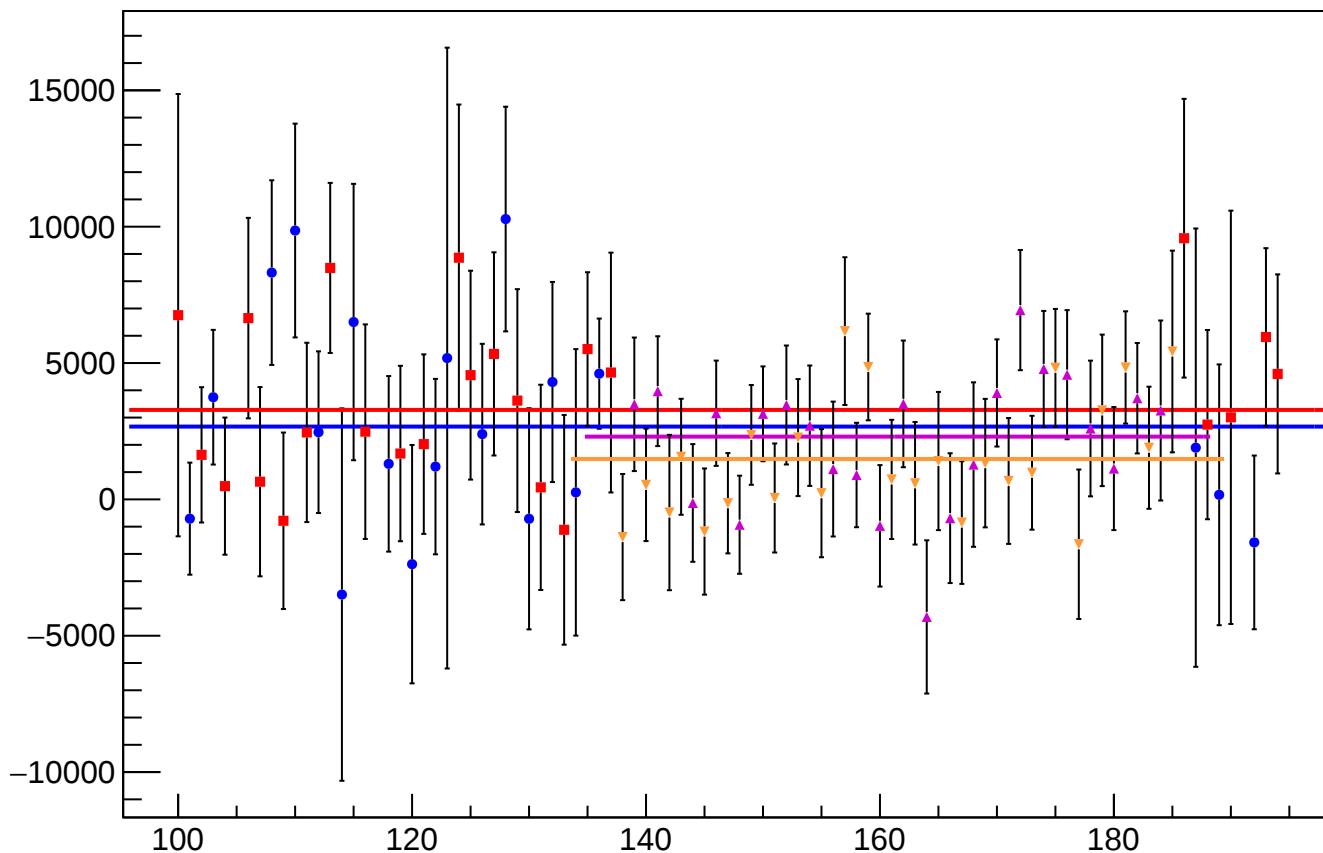
Right: 1820.747+/-0.312 χ^2/NDF : 2567389.9/43

In: 1565.097+/-0.224 χ^2/NDF : 2215797.9/42

Out: 1622.712+/-0.220 χ^2/NDF : 2709242.0/48

All: 1594.435+/-0.157 χ^2/NDF : 4958613.8/91

asym_usr_mean vs Slug, Sign Corrected



Right In: 2669.457 $\pm$ 765.905 χ^2 /NDF: 19.7/19

Left Out: 1482.365 $\pm$ 449.983 χ^2 /NDF: 20.9/24

Right Out: 3281.207 $\pm$ 728.999 χ^2 /NDF: 14.3/23

Left In: 2301.247 $\pm$ 459.040 χ^2 /NDF: 24.8/22

Left: 1883.648 $\pm$ 321.340 χ^2 /NDF: 47.4/47

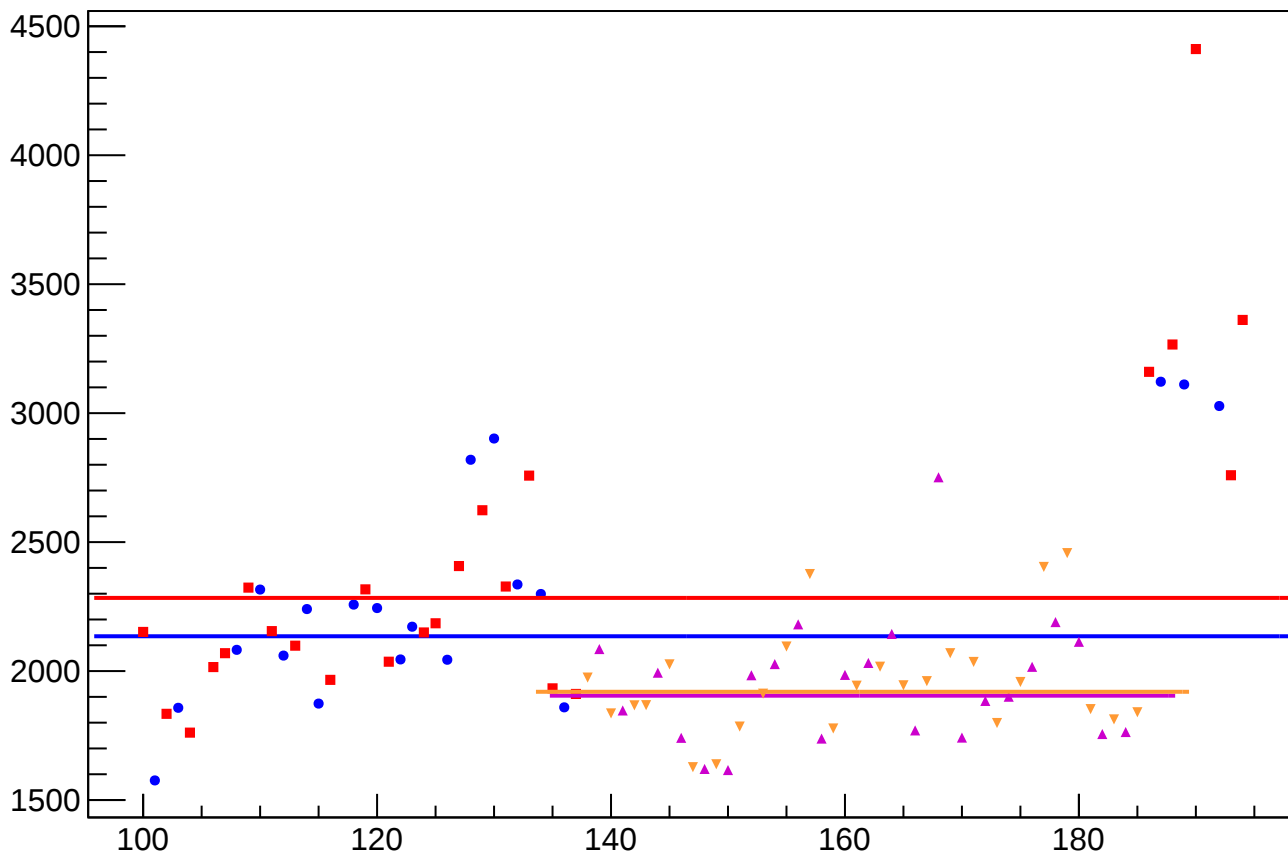
Right: 2990.425 $\pm$ 528.046 χ^2 /NDF: 34.3/43

In: 2398.558 $\pm$ 393.738 χ^2 /NDF: 44.7/42

Out: 1978.653 $\pm$ 382.911 χ^2 /NDF: 39.6/48

All: 2182.753 $\pm$ 274.507 χ^2 /NDF: 84.9/91

asym_usr_rms vs Slug, Sign Corrected



Right In: 2134.982+/-0.542 χ^2/NDF : 634698.0/19

Left Out: 1919.732+/-0.318 χ^2/NDF : 366218.1/24

Right Out: 2283.703+/-0.515 χ^2/NDF : 888945.9/23

Left In: 1904.629+/-0.325 χ^2/NDF : 447350.7/22

Left: 1912.331+/-0.227 χ^2/NDF : 814672.9/47

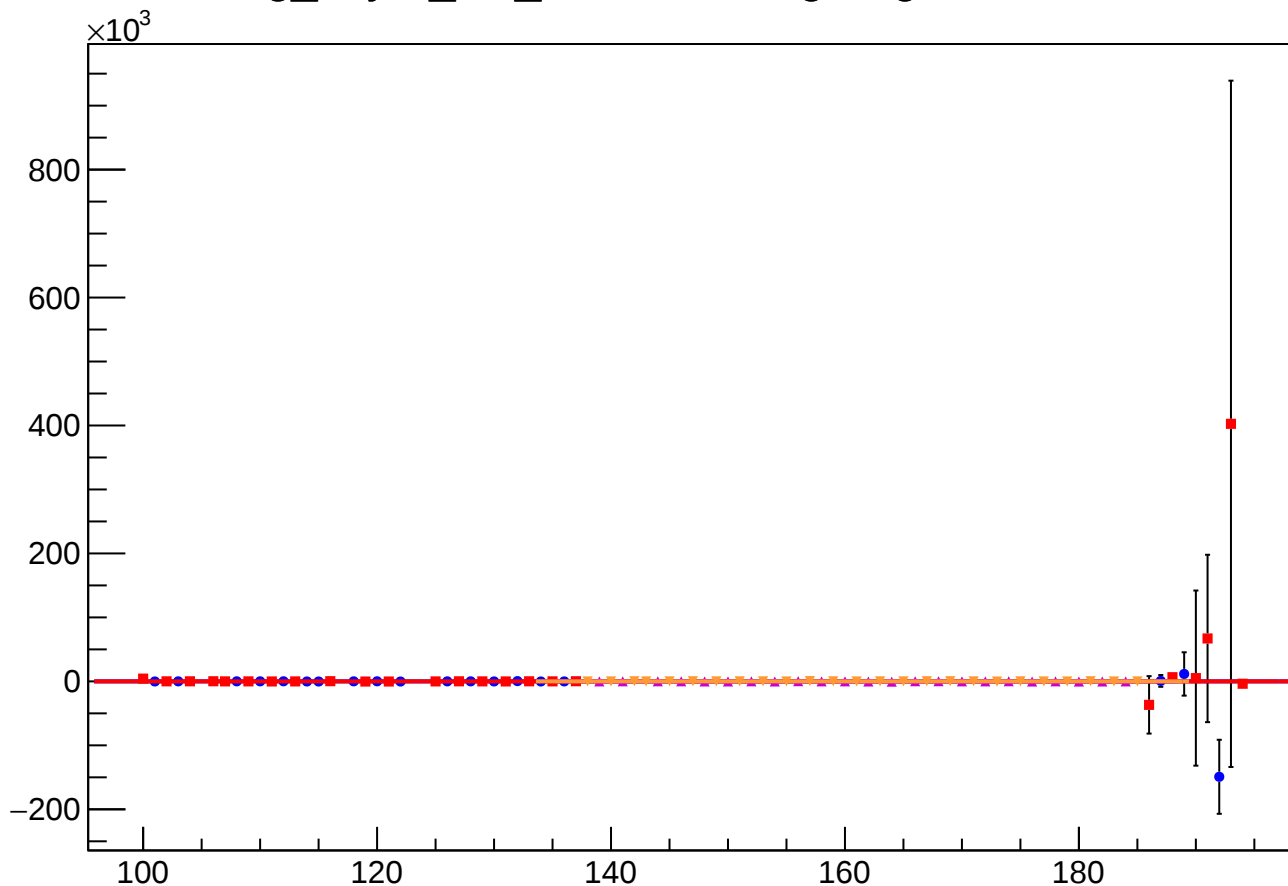
Right: 2213.012+/-0.373 χ^2/NDF : 1563208.9/43

In: 1965.506+/-0.278 χ^2/NDF : 1215150.0/42

Out: 2020.149+/-0.271 χ^2/NDF : 1616168.2/48

All: 1993.589+/-0.194 χ^2/NDF : 2851114.7/91

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.805 ± 36.771 χ^2/NDF : 23.3/18

Left Out: 7.608 ± 25.572 χ^2/NDF : 36.5/24

Right Out: 1.650 ± 36.755 χ^2/NDF : 17.0/23

Left In: 24.786 ± 26.343 χ^2/NDF : 36.4/22

Left: 15.942 ± 18.349 χ^2/NDF : 73.1/47

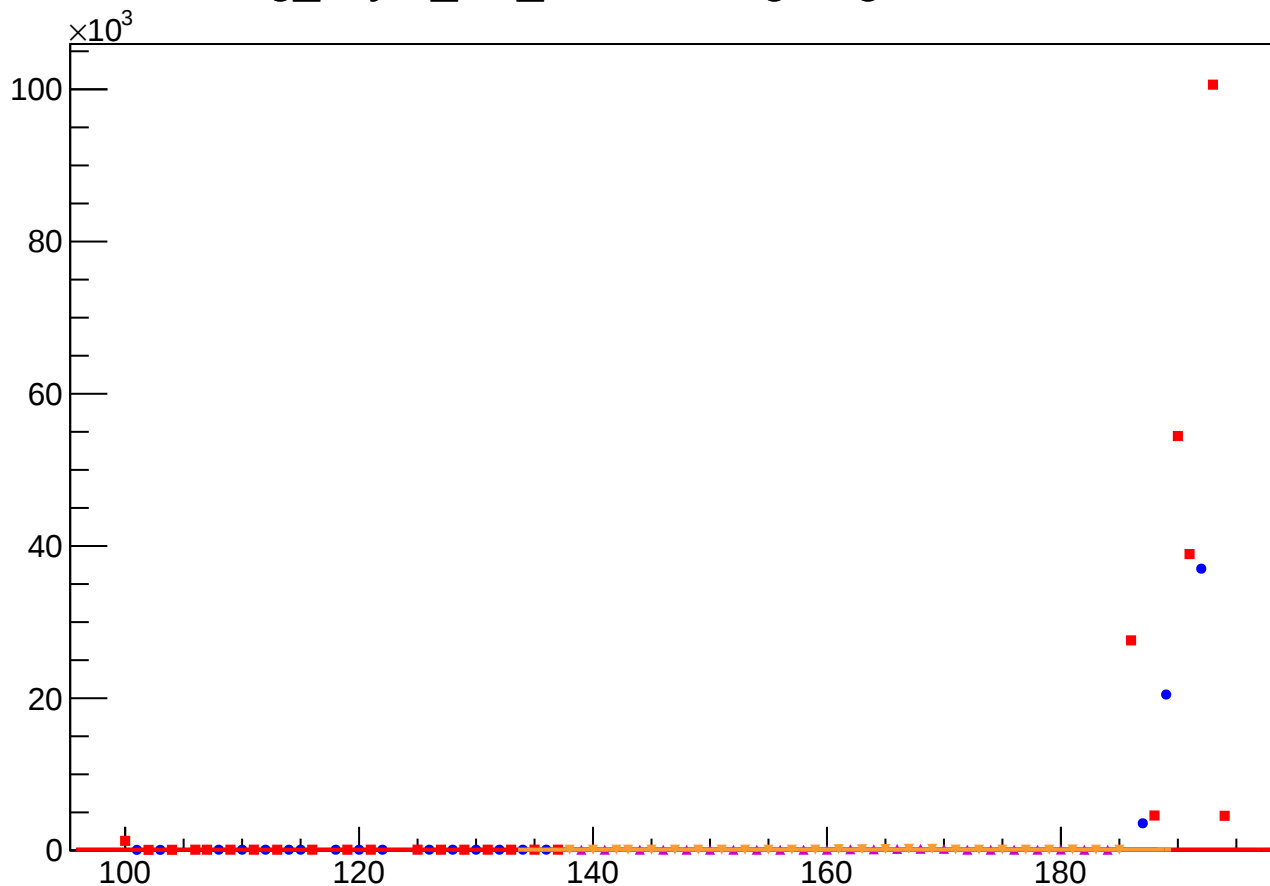
Right: 0.423 ± 25.995 χ^2/NDF : 40.2/42

In: 16.106 ± 21.415 χ^2/NDF : 60.0/41

Out: 5.665 ± 20.991 χ^2/NDF : 53.5/48

All: 10.781 ± 14.991 χ^2/NDF : 113.6/90

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.142 $\pm$ 0.026 χ^2 /NDF: 1989805.7/18

Left Out: 107.590 $\pm$ 0.018 χ^2 /NDF: 1447372.1/24

Right Out: 96.703 $\pm$ 0.026 χ^2 /NDF: 3719284.9/23

Left In: 107.672 $\pm$ 0.019 χ^2 /NDF: 1491034.7/22

Left: 107.630 $\pm$ 0.013 χ^2 /NDF: 2938417.0/47

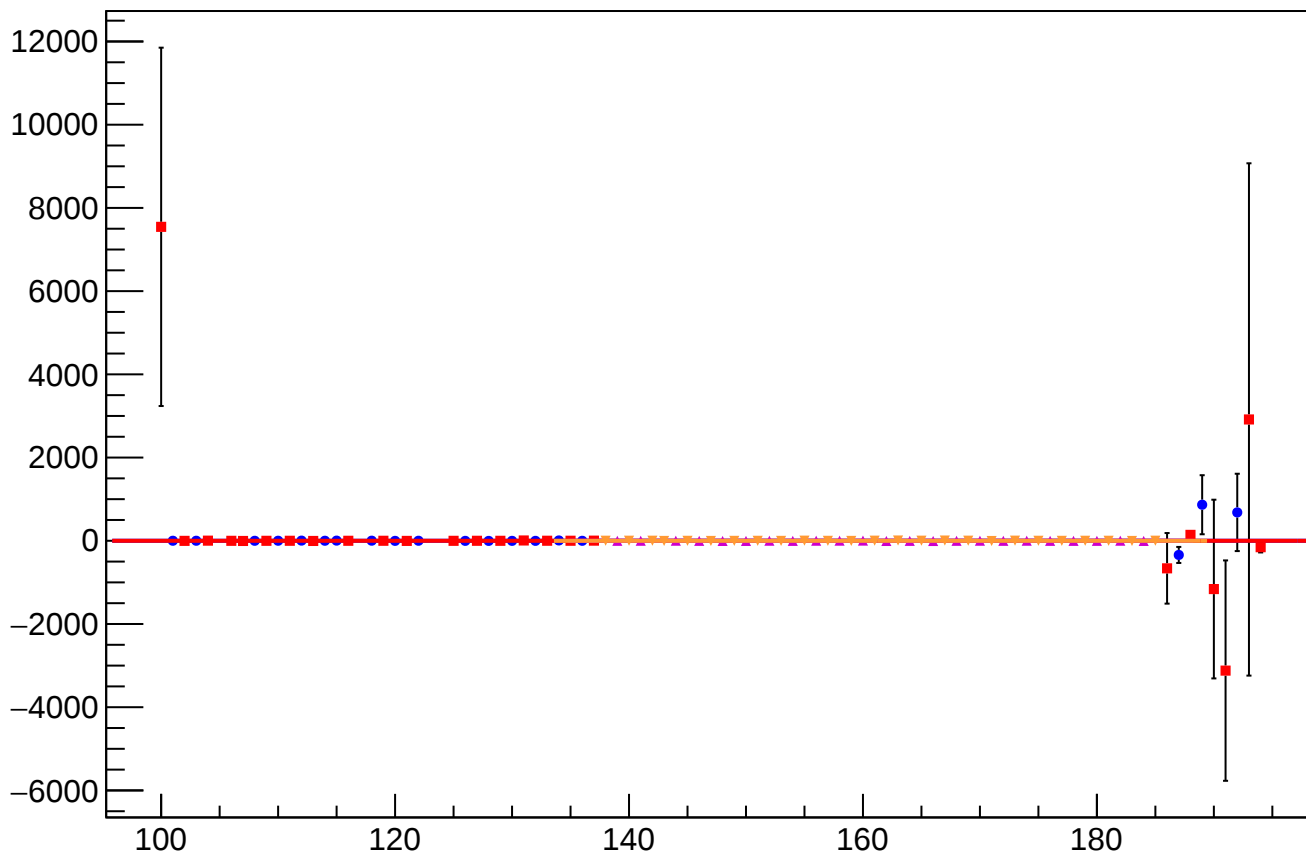
Right: 95.423 $\pm$ 0.018 χ^2 /NDF: 5713943.7/42

In: 103.083 $\pm$ 0.015 χ^2 /NDF: 3659789.9/41

Out: 104.039 $\pm$ 0.015 χ^2 /NDF: 5284887.9/48

All: 103.570 $\pm$ 0.011 χ^2 /NDF: 8946707.5/90

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.617 χ^2 /NDF: 15.6/18

Left Out: -0.765 $\pm$ 0.459 χ^2 /NDF:34.1/24

Right Out: -0.343 $\pm$ 0.644 χ^2 /NDF: 27.0/23

Left In: -0.067 $\pm$ 0.485 χ^2 /NDF:25.0/22

Left: -0.435 $\pm$ 0.333 χ^2 /NDF: 60.2/47

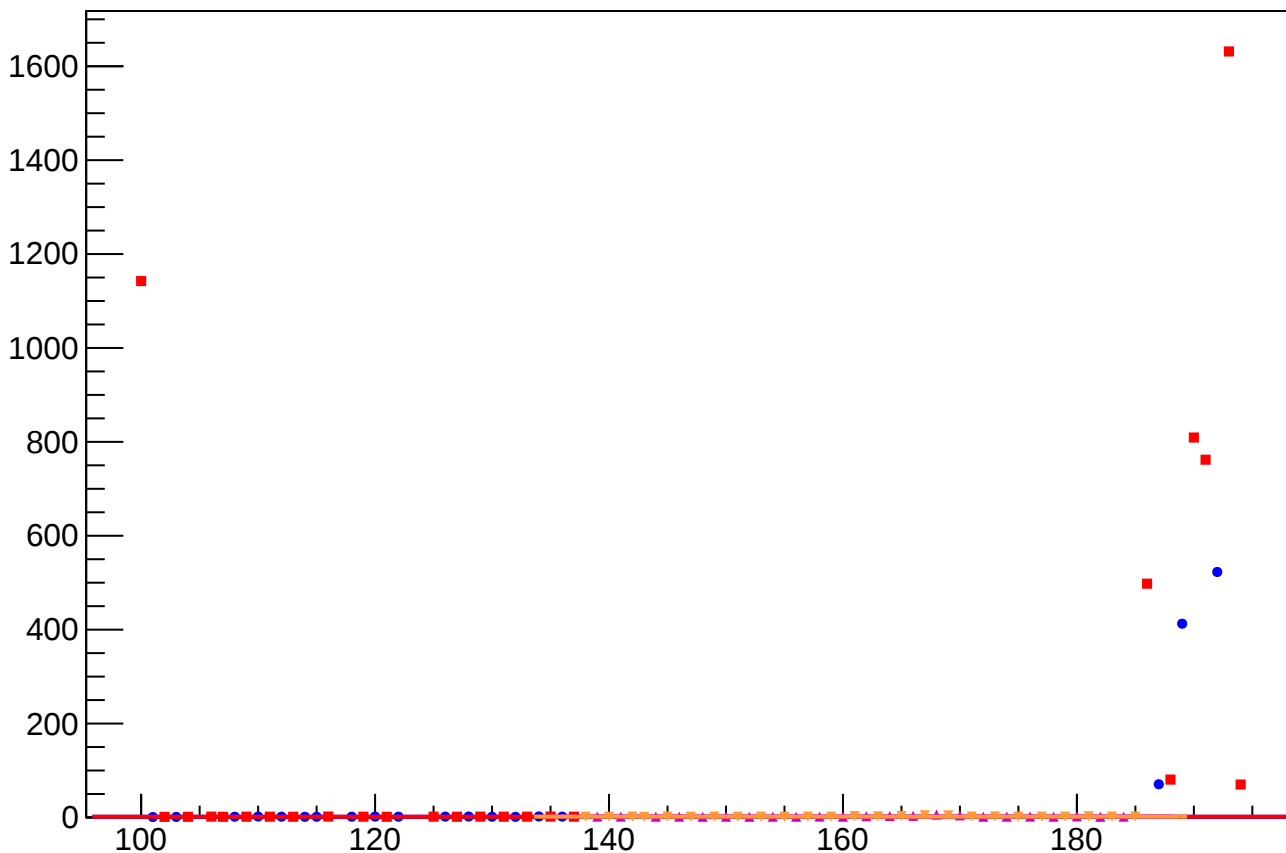
Right: 0.037 $\pm$ 0.445 χ^2 /NDF: 43.2/42

In: 0.106 $\pm$ 0.381 χ^2 /NDF:40.9/41

Out: -0.623 $\pm$ 0.374 χ^2 /NDF:61.4/48

All: -0.265 $\pm$ 0.267 χ^2 /NDF: 104.1/90

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.421+/-0.000 χ^2/NDF : 2273180.3/18

Left Out: 1.746+/-0.000 χ^2/NDF :1683746.5/24

Right Out: 1.560+/-0.000 χ^2/NDF : 3384085.4/23

Left In: 1.802+/-0.000 χ^2/NDF :1921298.2/22

Left: 1.773+/-0.000 χ^2/NDF : 3619133.7/47

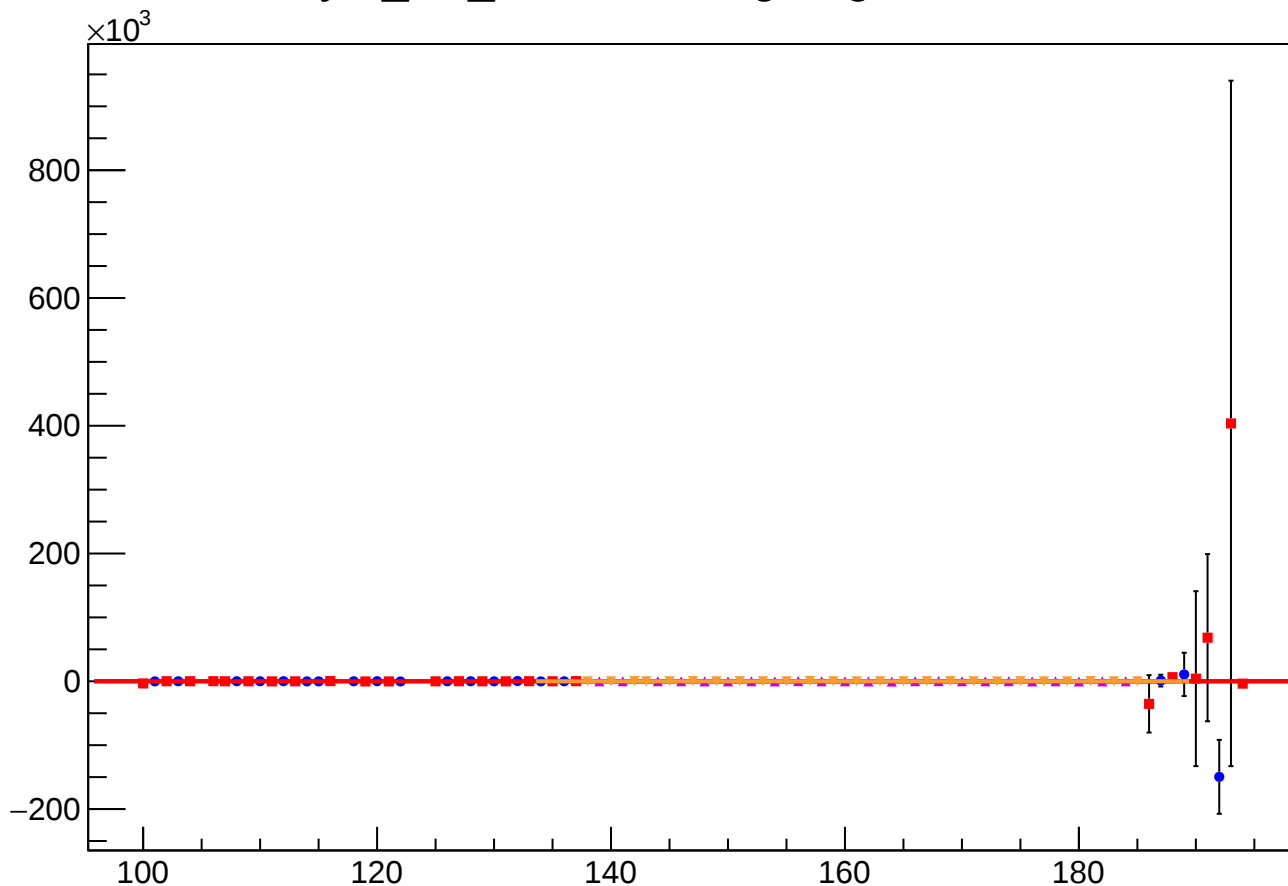
Right: 1.488+/-0.000 χ^2/NDF : 5705875.1/42

In: 1.657+/-0.000 χ^2/NDF :4666572.5/41

Out: 1.684+/-0.000 χ^2/NDF :5178637.4/48

All: 1.671+/-0.000 χ^2/NDF : 9850153.0/90

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.504 ± 36.781 $\chi^2/\text{NDF}: 23.5/18$

Left Out: 8.411 ± 25.580 $\chi^2/\text{NDF}: 36.3/24$

Right Out: 1.411 ± 36.765 $\chi^2/\text{NDF}: 16.4/23$

Left In: 25.312 ± 26.351 $\chi^2/\text{NDF}: 35.7/22$

Left: 16.611 ± 18.355 $\chi^2/\text{NDF}: 72.2/47$

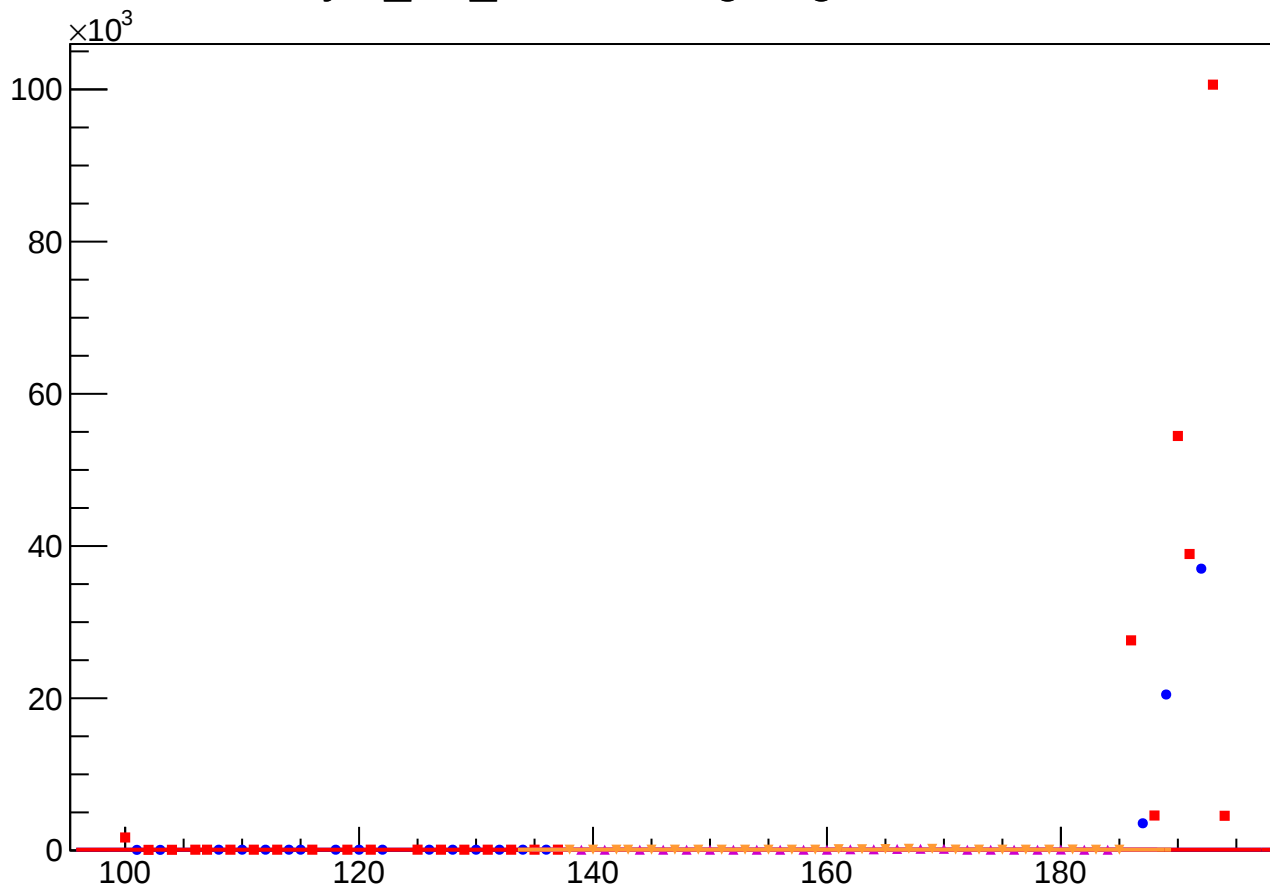
Right: 0.454 ± 26.002 $\chi^2/\text{NDF}: 39.9/42$

In: 16.555 ± 21.421 $\chi^2/\text{NDF}: 59.5/41$

Out: 6.128 ± 20.998 $\chi^2/\text{NDF}: 52.8/48$

All: 11.237 ± 14.995 $\chi^2/\text{NDF}: 112.4/90$

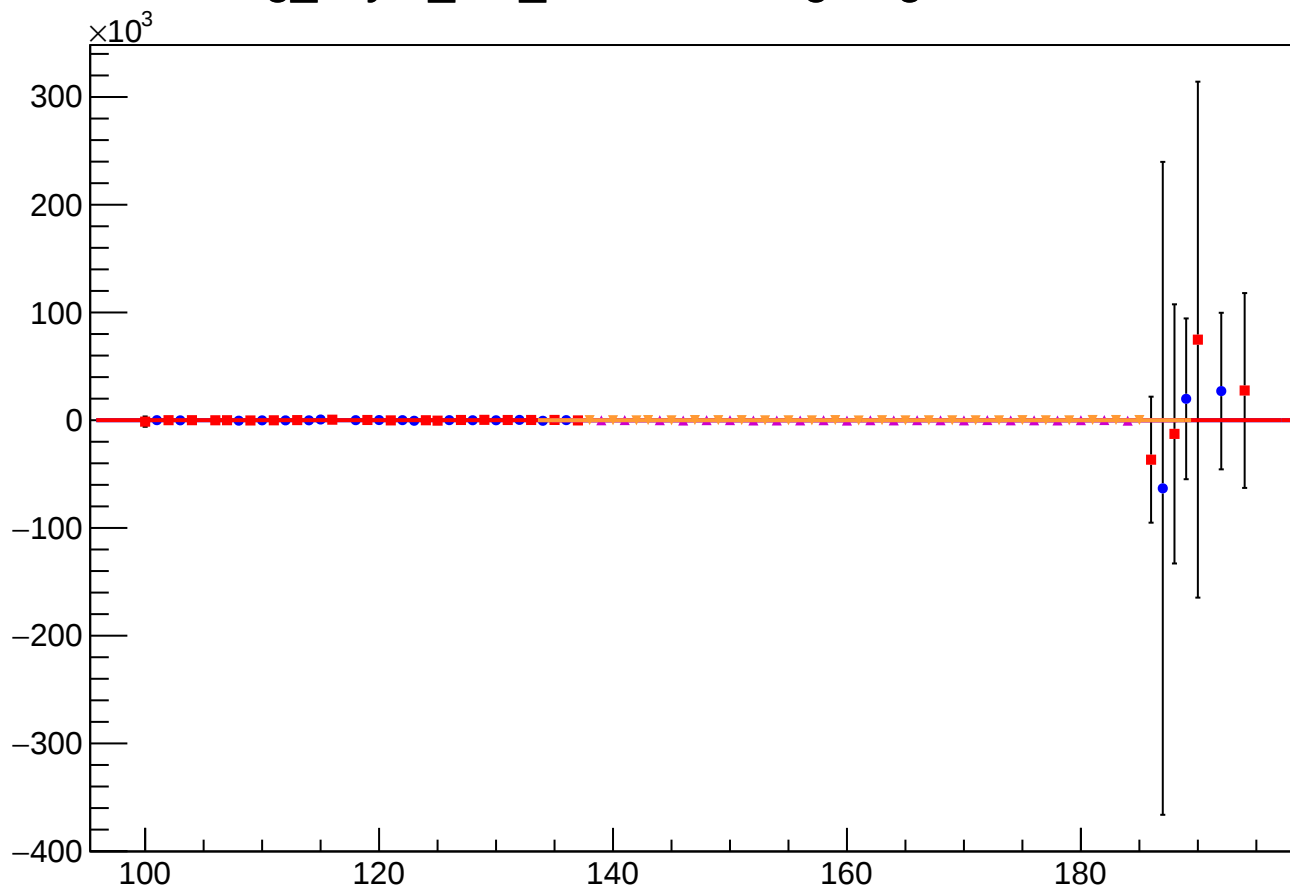
asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.166 $\pm$ 0.026 χ^2 /NDF: 1989793.4/18
 Left Out: 107.620 $\pm$ 0.018 χ^2 /NDF: 1448769.2/24
 Right Out: 96.712 $\pm$ 0.026 χ^2 /NDF: 3724464.4/23
 Left In: 107.703 $\pm$ 0.019 χ^2 /NDF: 1492338.5/22

Left: 107.660 $\pm$ 0.013 χ^2 /NDF: 2941117.9/47
 Right: 95.440 $\pm$ 0.018 χ^2 /NDF: 5719050.2/42
 In: 103.112 $\pm$ 0.015 χ^2 /NDF: 3661153.9/41
 Out: 104.062 $\pm$ 0.015 χ^2 /NDF: 5291866.5/48
 All: 103.596 $\pm$ 0.011 χ^2 /NDF: 8955028.0/90

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.780 $\pm$ 46.841 χ^2 /NDF: 14.7/19

Left Out: -12.829 $\pm$ 32.063 χ^2 /NDF:12.0/24

Right Out: 53.368 $\pm$ 47.775 χ^2 /NDF: 16.0/22

Left In: -65.335 $\pm$ 32.944 χ^2 /NDF:19.3/22

Left: -38.371 $\pm$ 22.977 χ^2 /NDF: 32.6/47

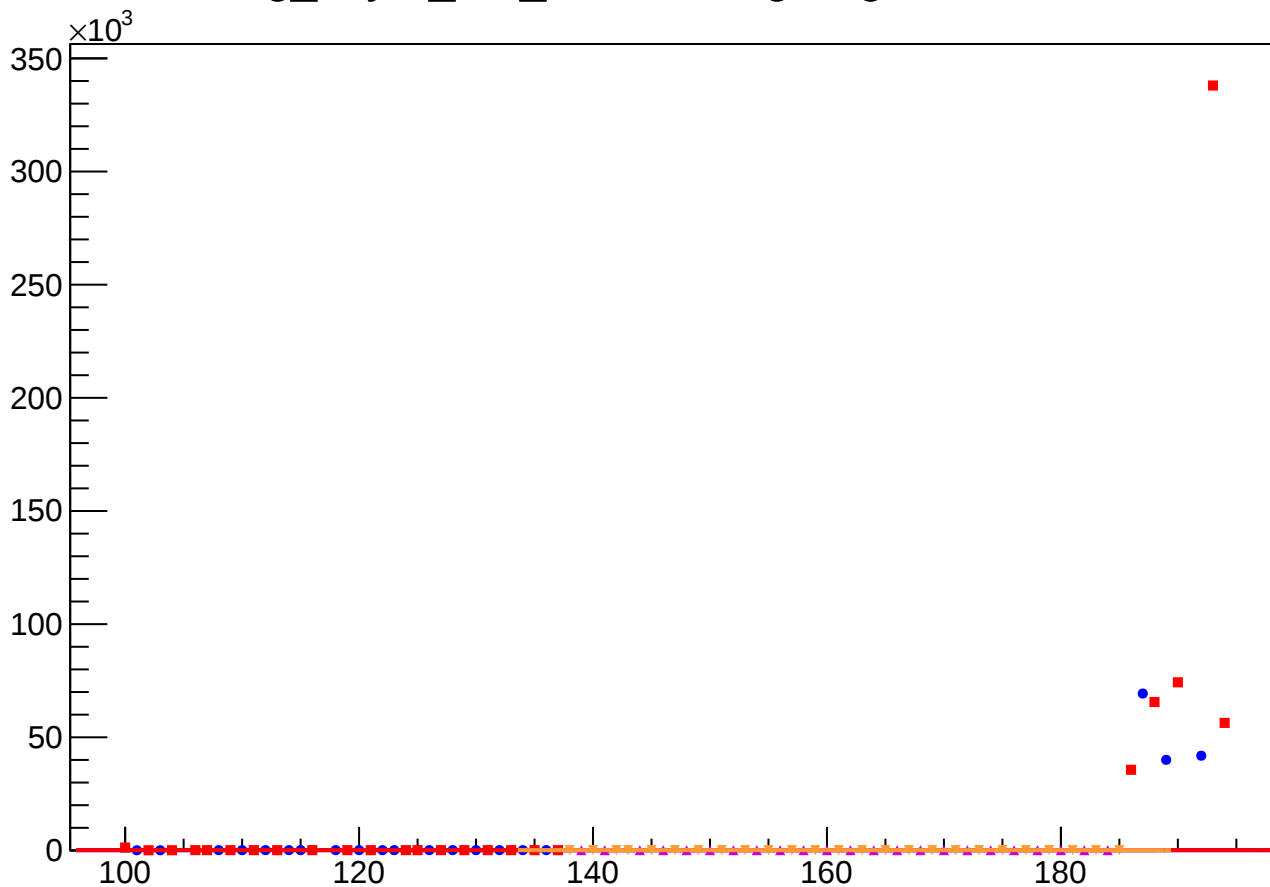
Right: 12.503 $\pm$ 33.447 χ^2 /NDF: 32.1/42

In: -52.575 $\pm$ 26.947 χ^2 /NDF:34.4/42

Out: 7.728 $\pm$ 26.623 χ^2 /NDF:29.3/47

All: -22.060 $\pm$ 18.939 χ^2 /NDF: 66.3/90

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.798 $\pm$ 0.033 χ^2 /NDF: 2071378.0/19

Left Out: 137.856 $\pm$ 0.023 χ^2 /NDF:443.5/24

Right Out: 124.782 $\pm$ 0.034 χ^2 /NDF: 3187166.3/23

Left In: 137.804 $\pm$ 0.023 χ^2 /NDF:460.3/22

Left: 137.831 $\pm$ 0.016 χ^2 /NDF: 906.3/47

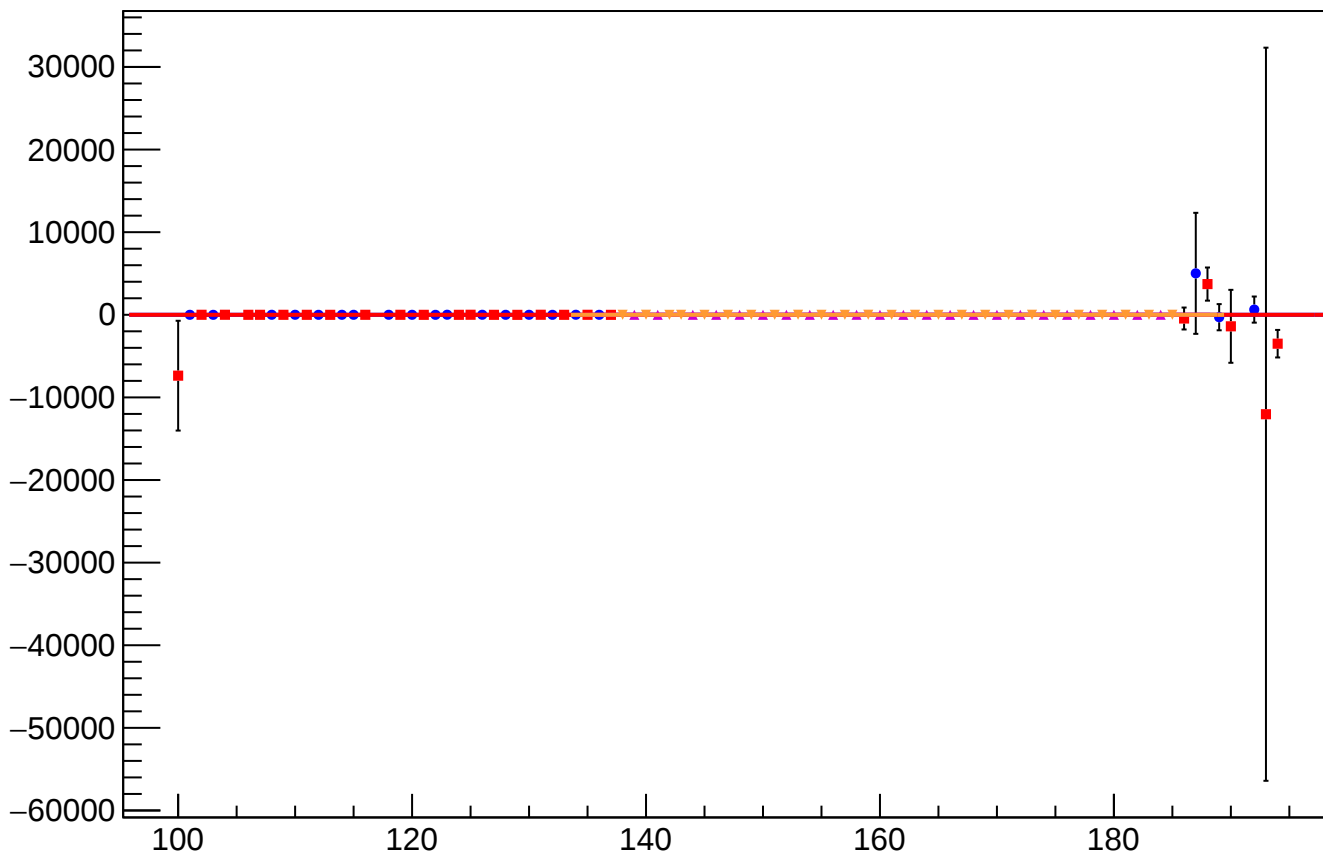
Right: 121.221 $\pm$ 0.024 χ^2 /NDF: 5280335.7/43

In: 131.183 $\pm$ 0.019 χ^2 /NDF:2315946.7/42

Out: 133.796 $\pm$ 0.019 χ^2 /NDF:3290889.0/48

All: 132.506 $\pm$ 0.013 χ^2 /NDF: 5616351.8/91

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 12.9/19

Left Out: 0.490 ± 0.572 χ^2/NDF : 29.0/24

Right Out: -0.639 ± 0.852 χ^2/NDF : 22.8/23

Left In: 0.290 ± 0.579 χ^2/NDF : 20.7/22

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

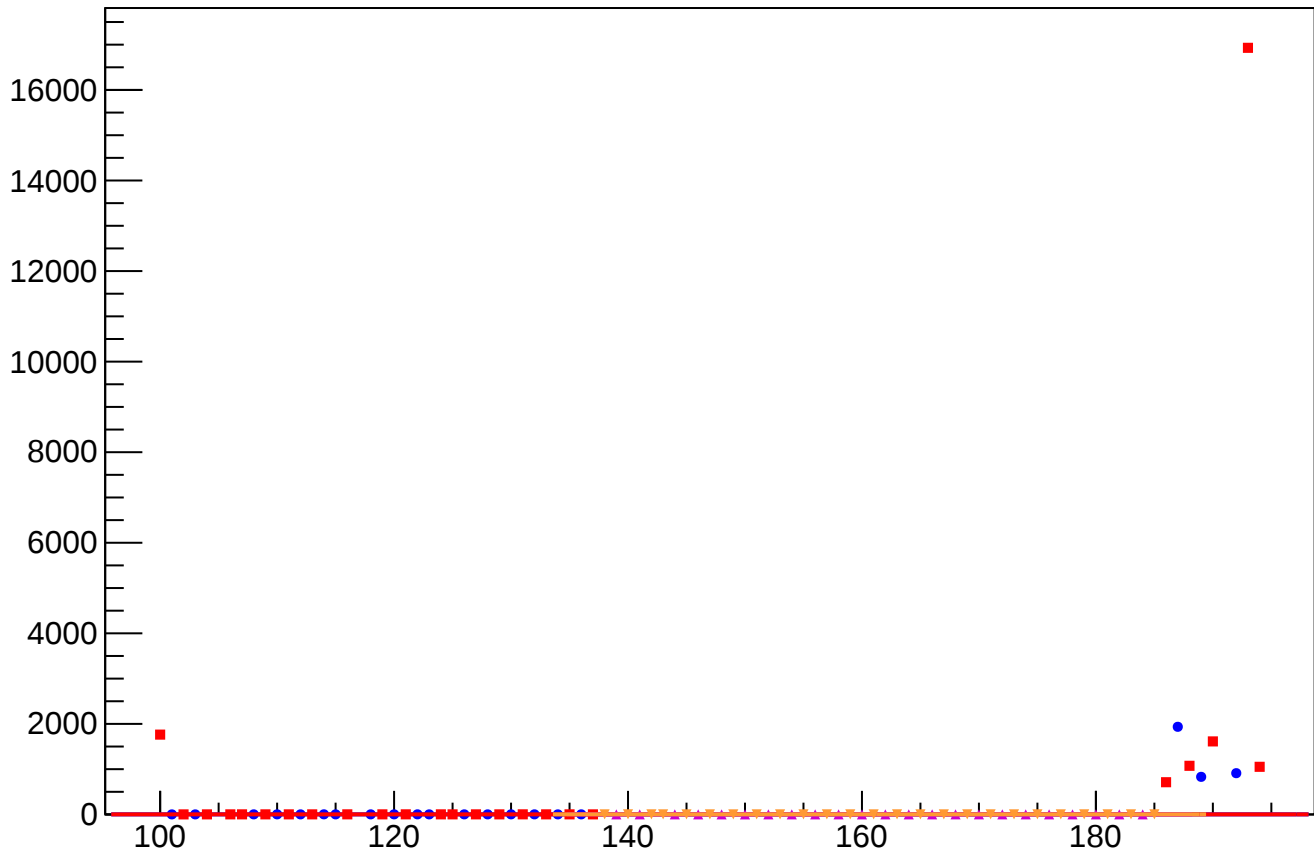
Right: -0.681 ± 0.587 χ^2/NDF : 35.7/43

In: -0.052 ± 0.471 χ^2/NDF : 34.6/42

Out: 0.139 ± 0.475 χ^2/NDF : 53.0/48

All: 0.043 ± 0.334 χ^2/NDF : 87.7/91

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866 $\pm$ 0.001 χ^2 /NDF: 1838789.0/19

Left Out: 2.262 $\pm$ 0.000 χ^2 /NDF: 374973.2/24

Right Out: 2.064 $\pm$ 0.001 χ^2 /NDF: 3023311.2/23

Left In: 2.193 $\pm$ 0.000 χ^2 /NDF: 510890.7/22

Left: 2.228 $\pm$ 0.000 χ^2 /NDF: 900243.0/47

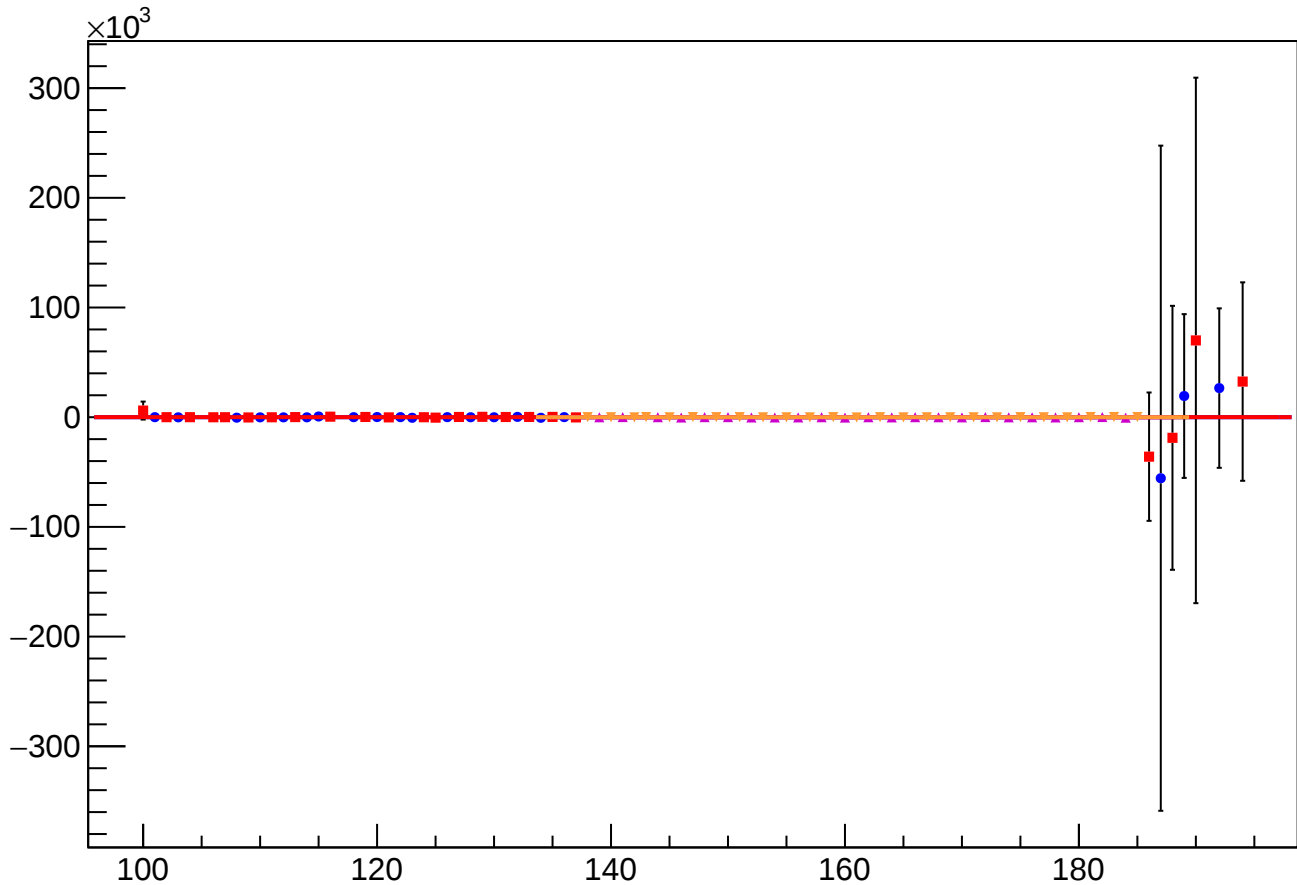
Right: 1.960 $\pm$ 0.000 χ^2 /NDF: 4919168.0/43

In: 2.082 $\pm$ 0.000 χ^2 /NDF: 2565588.8/42

Out: 2.200 $\pm$ 0.000 χ^2 /NDF: 3472337.5/48

All: 2.141 $\pm$ 0.000 χ^2 /NDF: 6100443.7/91

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.042 $\pm$ 46.854 χ^2 /NDF: 14.7/19

Left Out: -13.383 $\pm$ 32.072 χ^2 /NDF:11.8/24

Right Out: 54.270 $\pm$ 47.789 χ^2 /NDF: 16.7/22

Left In: -65.231 $\pm$ 32.953 χ^2 /NDF:19.4/22

Left: -38.605 $\pm$ 22.983 χ^2 /NDF: 32.4/47

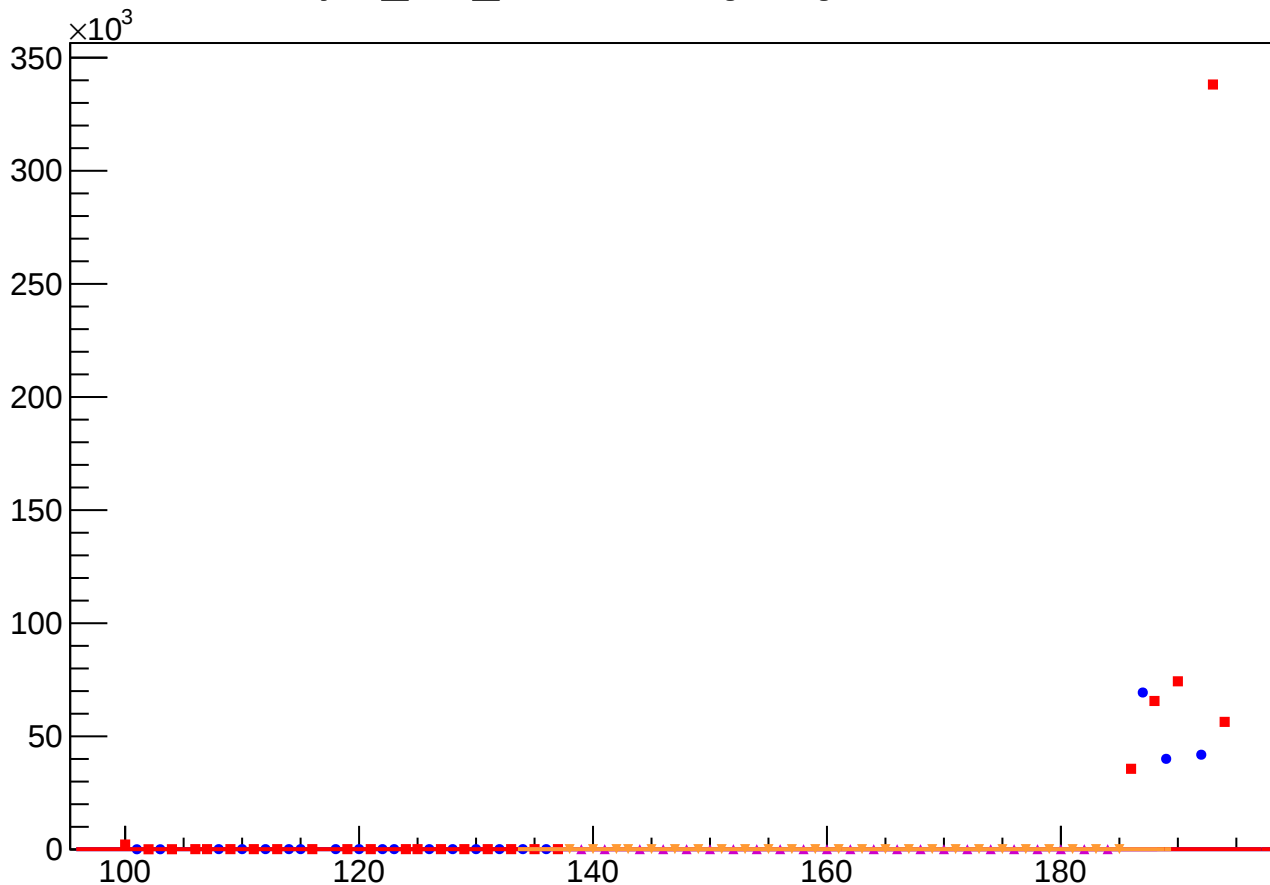
Right: 13.831 $\pm$ 33.456 χ^2 /NDF: 32.8/42

In: -51.931 $\pm$ 26.954 χ^2 /NDF:34.6/42

Out: 7.625 $\pm$ 26.631 χ^2 /NDF:29.9/47

All: -21.793 $\pm$ 18.944 χ^2 /NDF: 66.9/90

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.830 $\pm$ 0.033 χ^2 /NDF: 2071423.1/19

Left Out: 137.895 $\pm$ 0.023 χ^2 /NDF:440.9/24

Right Out: 124.771 $\pm$ 0.034 χ^2 /NDF: 3197800.0/23

Left In: 137.843 $\pm$ 0.023 χ^2 /NDF:457.2/22

Left: 137.870 $\pm$ 0.016 χ^2 /NDF: 900.6/47

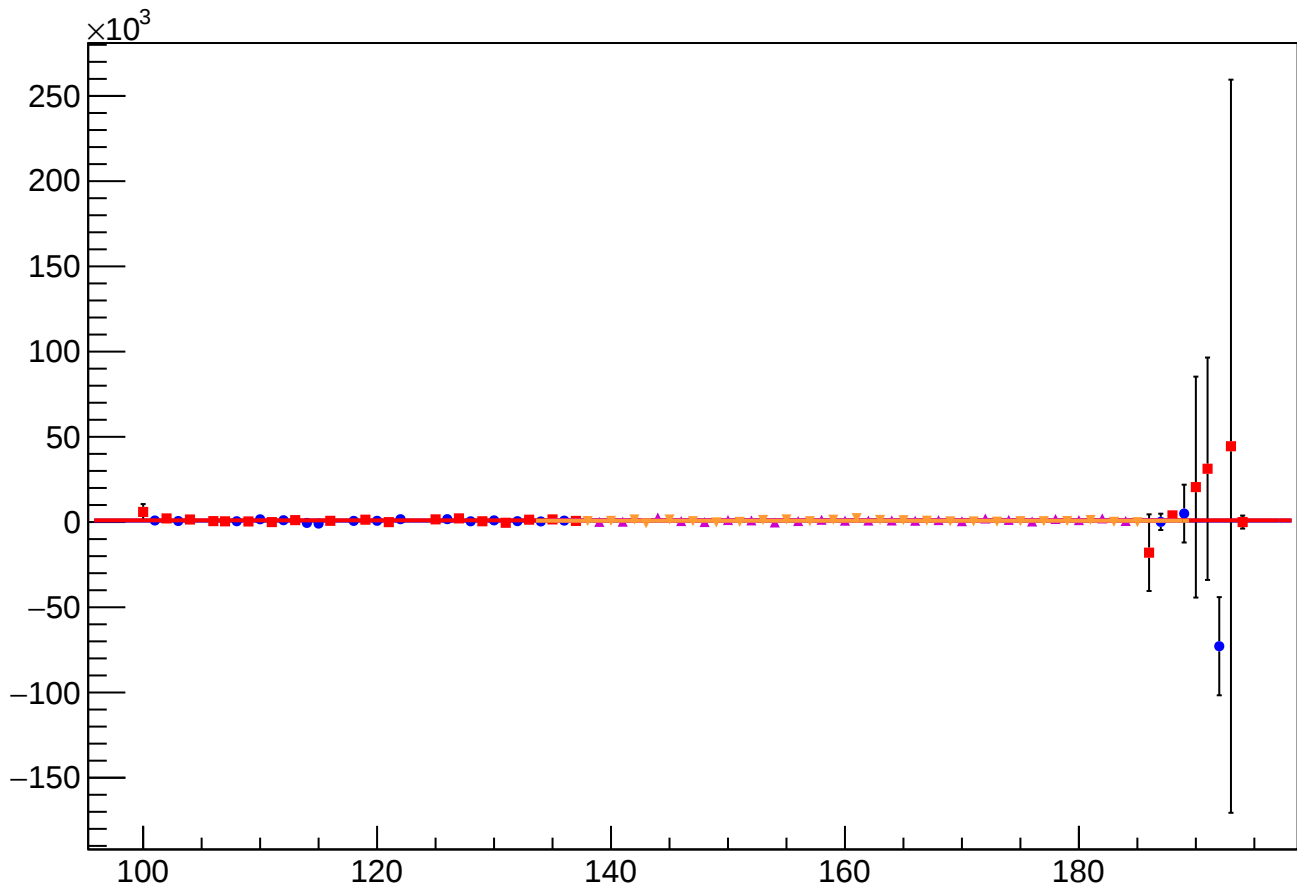
Right: 121.232 $\pm$ 0.024 χ^2 /NDF: 5290735.6/43

In: 131.220 $\pm$ 0.019 χ^2 /NDF:2316027.1/42

Out: 133.820 $\pm$ 0.019 χ^2 /NDF:3302245.9/48

All: 132.535 $\pm$ 0.013 χ^2 /NDF: 5627688.5/91

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 842.045 $\pm$ 216.421 χ^2 /NDF: 11.9/18

Left Out: 779.744 $\pm$ 133.856 χ^2 /NDF:19.6/24

Right Out: 1009.353 $\pm$ 212.318 χ^2 /NDF: 16.2/23

Left In: 974.402 $\pm$ 134.932 χ^2 /NDF:27.4/22

Left: 876.294 $\pm$ 95.028 χ^2 /NDF: 48.1/47

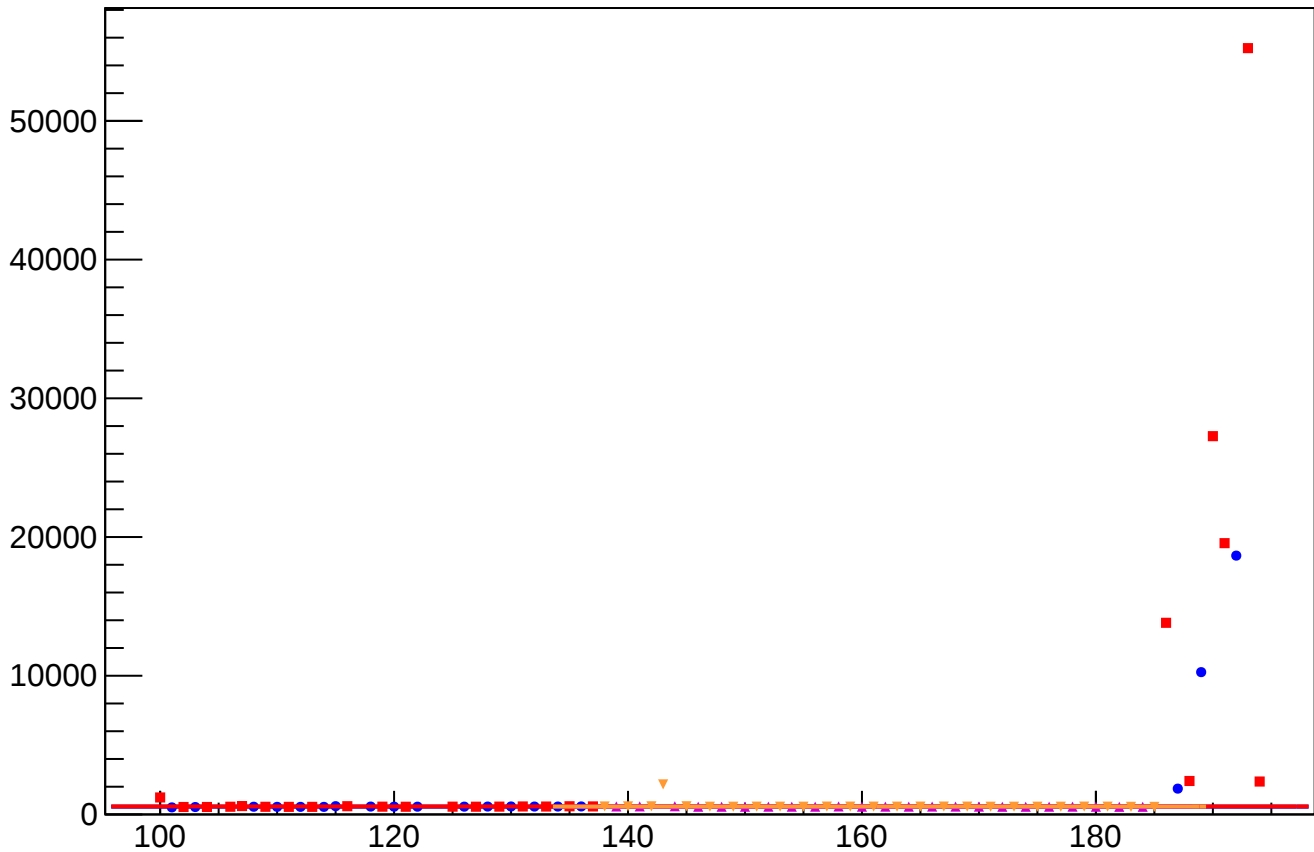
Right: 927.300 $\pm$ 151.561 χ^2 /NDF: 28.4/42

In: 937.354 $\pm$ 114.501 χ^2 /NDF:39.6/41

Out: 845.049 $\pm$ 113.231 χ^2 /NDF:36.7/48

All: 890.687 $\pm$ 80.512 χ^2 /NDF: 76.6/90

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 562.142+/-0.153 χ^2/NDF : 1614385.0/18

Left Out: 568.874+/-0.095 χ^2/NDF : 853714.5/24

Right Out: 580.236+/-0.150 χ^2/NDF : 2695032.1/23

Left In: 564.383+/-0.095 χ^2/NDF : 9209.5/22

Left: 566.647+/-0.067 χ^2/NDF : 864040.9/47

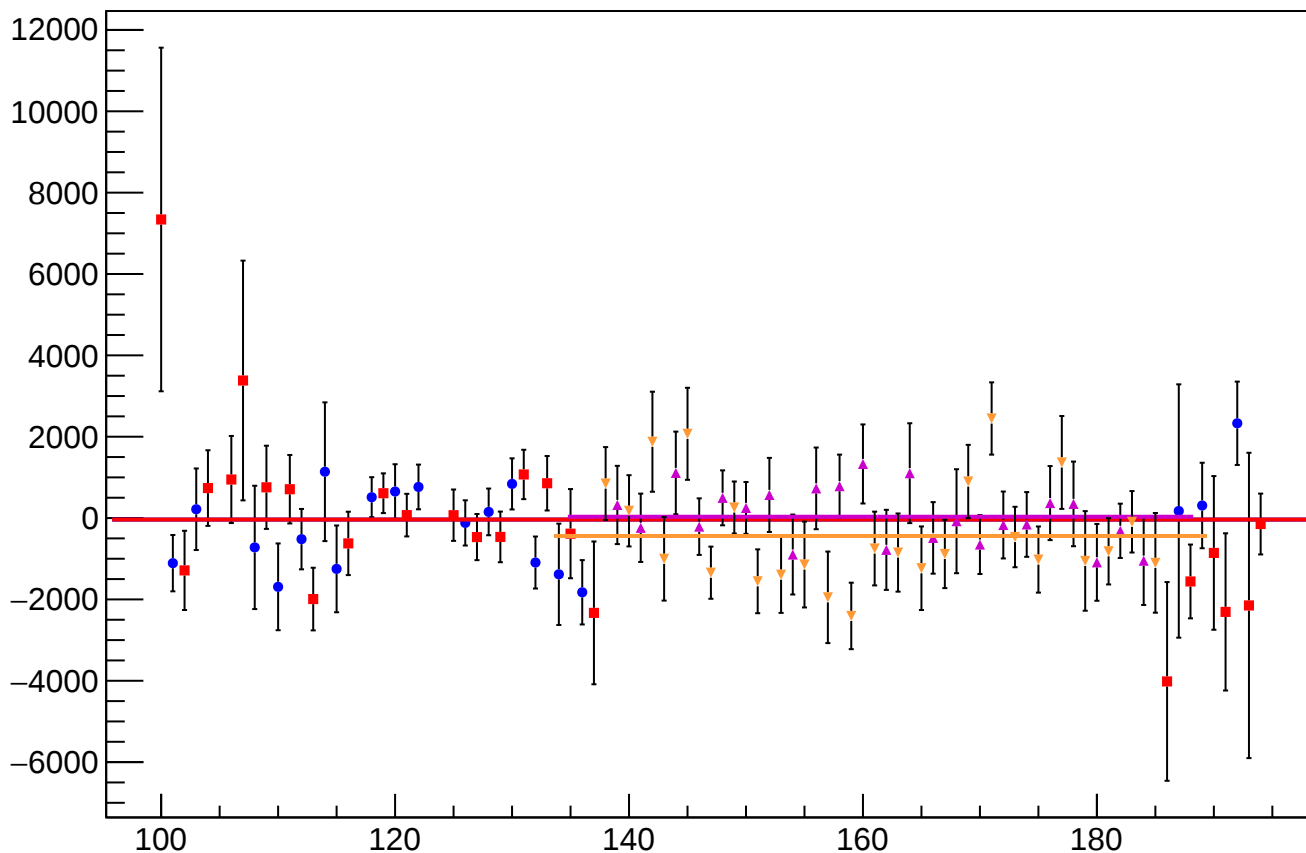
Right: 571.362+/-0.107 χ^2/NDF : 4316540.4/42

In: 563.756+/-0.081 χ^2/NDF : 1623748.9/41

Out: 572.106+/-0.080 χ^2/NDF : 3552844.7/48

All: 567.977+/-0.057 χ^2/NDF : 5181971.0/90

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -37.138 ± 175.258 $\chi^2/\text{NDF}: 28.2/18$

Left Out: -440.022 ± 177.884 $\chi^2/\text{NDF}: 43.5/24$

Right Out: -36.712 ± 169.309 $\chi^2/\text{NDF}: 33.2/23$

Left In: 32.411 ± 179.430 $\chi^2/\text{NDF}: 12.2/22$

Left: -205.851 ± 126.326 $\chi^2/\text{NDF}: 59.2/47$

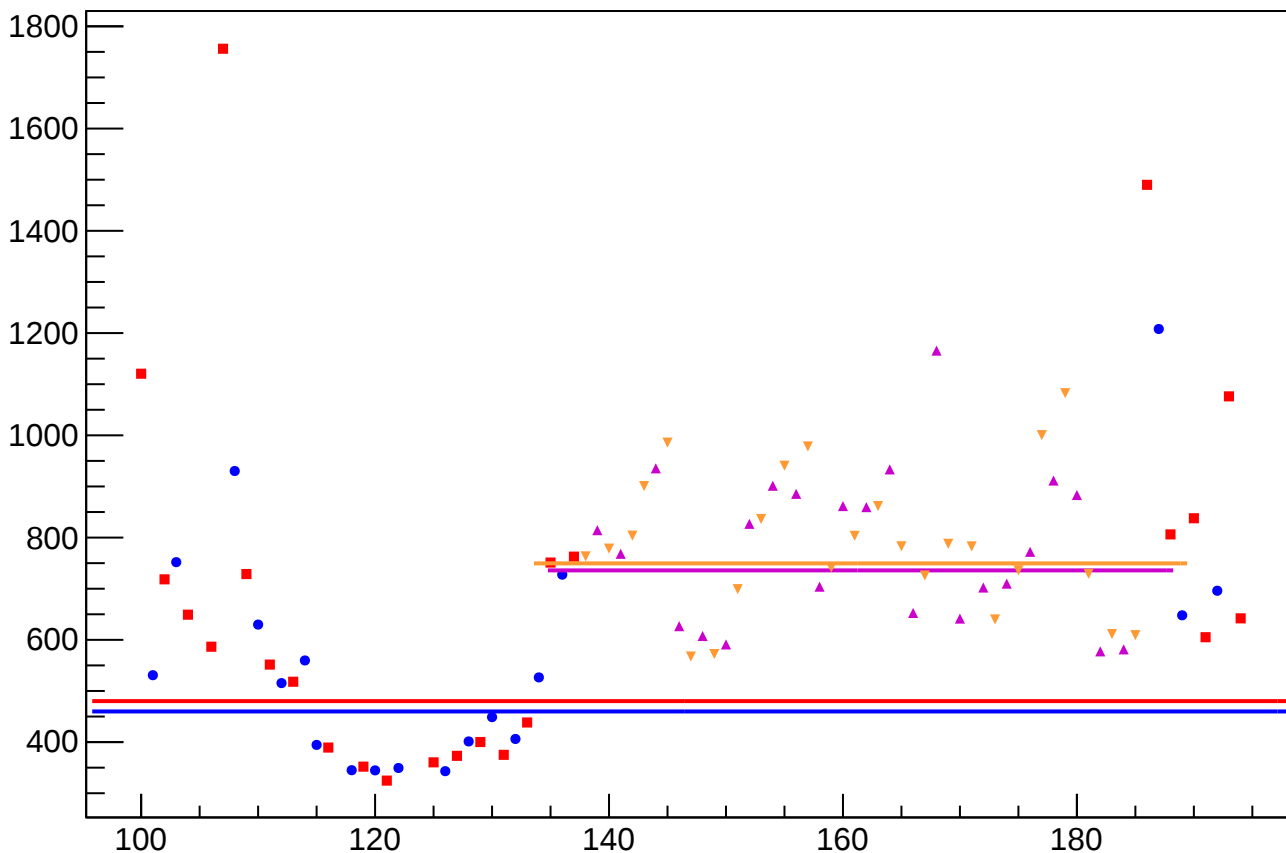
Right: -36.918 ± 121.769 $\chi^2/\text{NDF}: 61.4/42$

In: -3.181 ± 125.375 $\chi^2/\text{NDF}: 40.5/41$

Out: -228.413 ± 122.639 $\chi^2/\text{NDF}: 79.4/48$

All: -118.282 ± 87.670 $\chi^2/\text{NDF}: 121.5/90$

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 459.947 $\pm$ 0.124 χ^2 /NDF: 1352930.4/18

Left Out: 749.578 $\pm$ 0.126 χ^2 /NDF:1053455.5/24

Right Out: 480.193 $\pm$ 0.120 χ^2 /NDF: 2347542.8/23

Left In: 735.850 $\pm$ 0.127 χ^2 /NDF:1105405.5/22

Left: 742.773 $\pm$ 0.089 χ^2 /NDF: 2164765.1/47

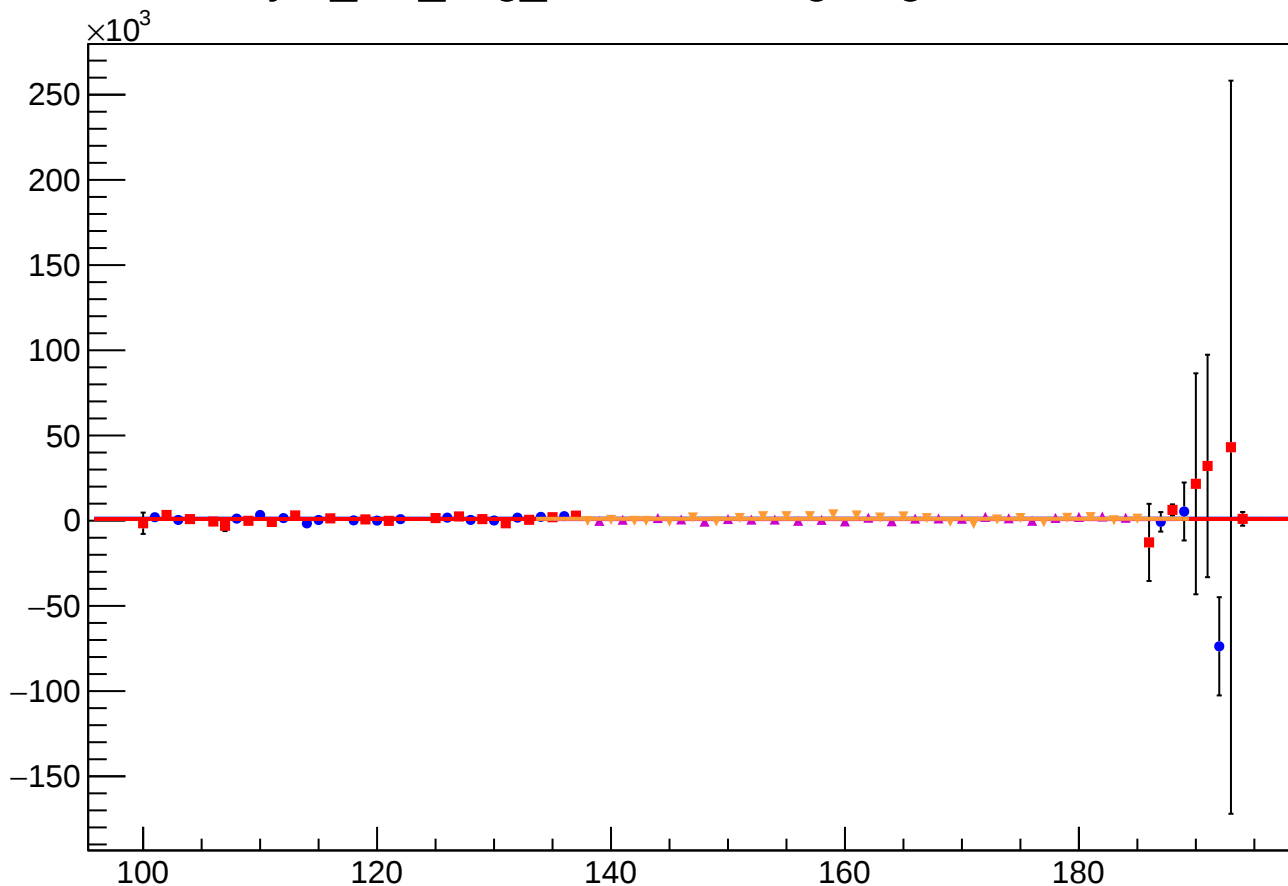
Right: 470.419 $\pm$ 0.086 χ^2 /NDF: 3714278.4/42

In: 594.653 $\pm$ 0.089 χ^2 /NDF:4878355.1/41

Out: 608.237 $\pm$ 0.087 χ^2 /NDF:5807580.5/48

All: 601.595 $\pm$ 0.062 χ^2 /NDF: 10697932.3/90

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1184.584 $\pm$ 295.643 χ^2 /NDF: 18.6/18

Left Out: 1128.601 $\pm$ 228.001 χ^2 /NDF:39.1/24

Right Out: 986.826 $\pm$ 292.200 χ^2 /NDF: 26.6/23

Left In: 941.702 $\pm$ 228.324 χ^2 /NDF:14.8/22

Left: 1035.284 $\pm$ 161.335 χ^2 /NDF: 54.2/47

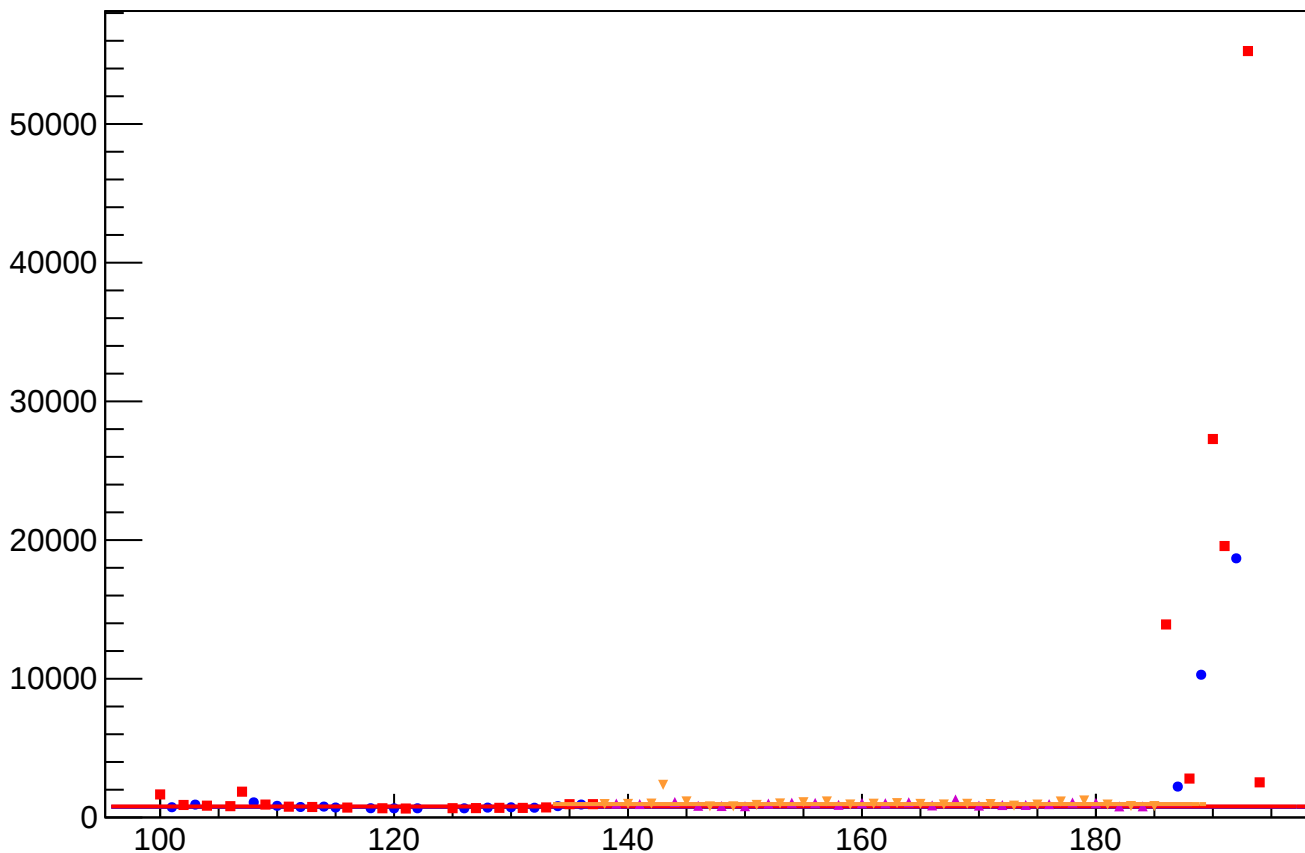
Right: 1084.547 $\pm$ 207.823 χ^2 /NDF: 45.5/42

In: 1032.444 $\pm$ 180.707 χ^2 /NDF:33.8/41

Out: 1074.948 $\pm$ 179.754 χ^2 /NDF:65.9/48

All: 1053.808 $\pm$ 127.441 χ^2 /NDF: 99.8/90

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 762.509+/-0.209 χ^2/NDF : 1786682.7/18

Left Out: 964.493+/-0.161 χ^2/NDF :1002763.0/24

Right Out: 791.630+/-0.207 χ^2/NDF : 2998430.0/23

Left In: 946.573+/-0.161 χ^2/NDF :501366.9/22

Left: 955.545+/-0.114 χ^2/NDF : 1510298.5/47

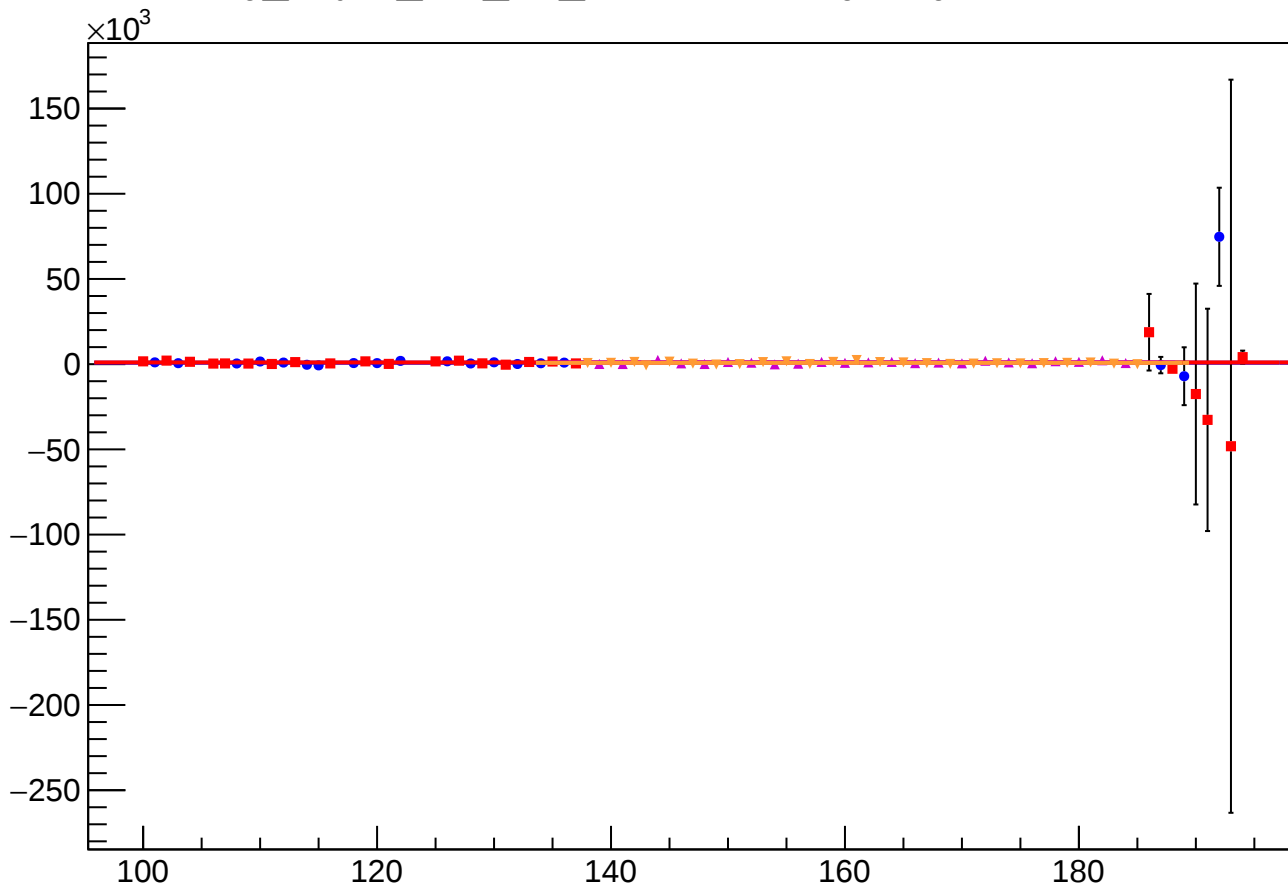
Right: 777.240+/-0.147 χ^2/NDF : 4794928.7/42

In: 877.805+/-0.128 χ^2/NDF :2773652.4/41

Out: 899.075+/-0.127 χ^2/NDF :4436261.2/48

All: 888.496+/-0.090 χ^2/NDF : 7223840.6/90

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 845.422 $\pm$ 216.255 χ^2 /NDF: 13.0/18

Left Out: 753.308 $\pm$ 133.745 χ^2 /NDF:21.4/24

Right Out: 1013.189 $\pm$ 207.351 χ^2 /NDF: 15.8/23

Left In: 958.517 $\pm$ 134.824 χ^2 /NDF:26.8/22

Left: 855.088 $\pm$ 94.951 χ^2 /NDF: 49.4/47

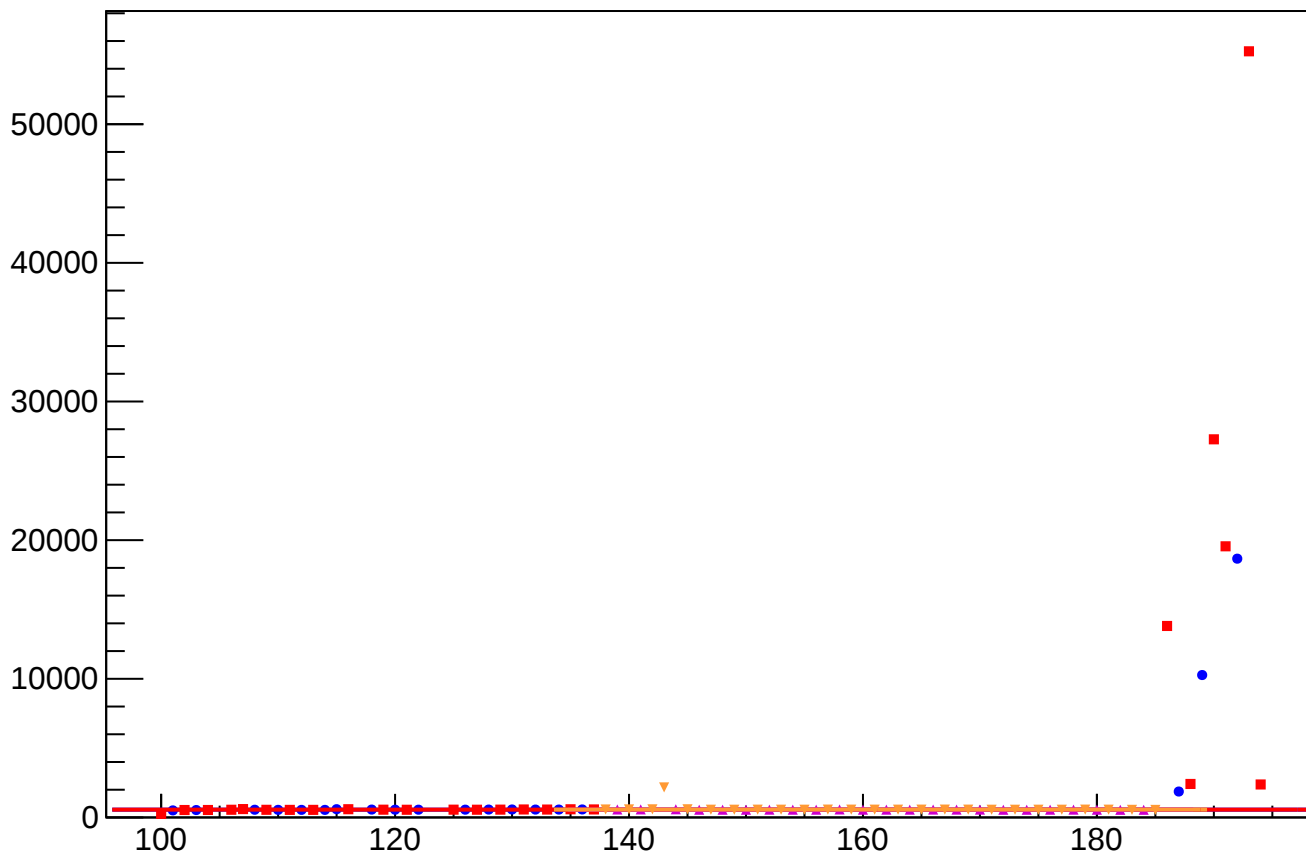
Right: 932.830 $\pm$ 149.668 χ^2 /NDF: 29.0/42

In: 926.862 $\pm$ 114.411 χ^2 /NDF:40.0/41

Out: 829.663 $\pm$ 112.393 χ^2 /NDF:38.2/48

All: 877.398 $\pm$ 80.178 χ^2 /NDF: 78.6/90

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 561.693+/-0.153 χ^2/NDF : 1615561.0/18

Left Out: 568.400+/-0.095 χ^2/NDF : 854012.8/24

Right Out: 563.245+/-0.147 χ^2/NDF : 2875469.6/23

Left In: 563.934+/-0.095 χ^2/NDF : 9204.6/22

Left: 566.185+/-0.067 χ^2/NDF : 864323.4/47

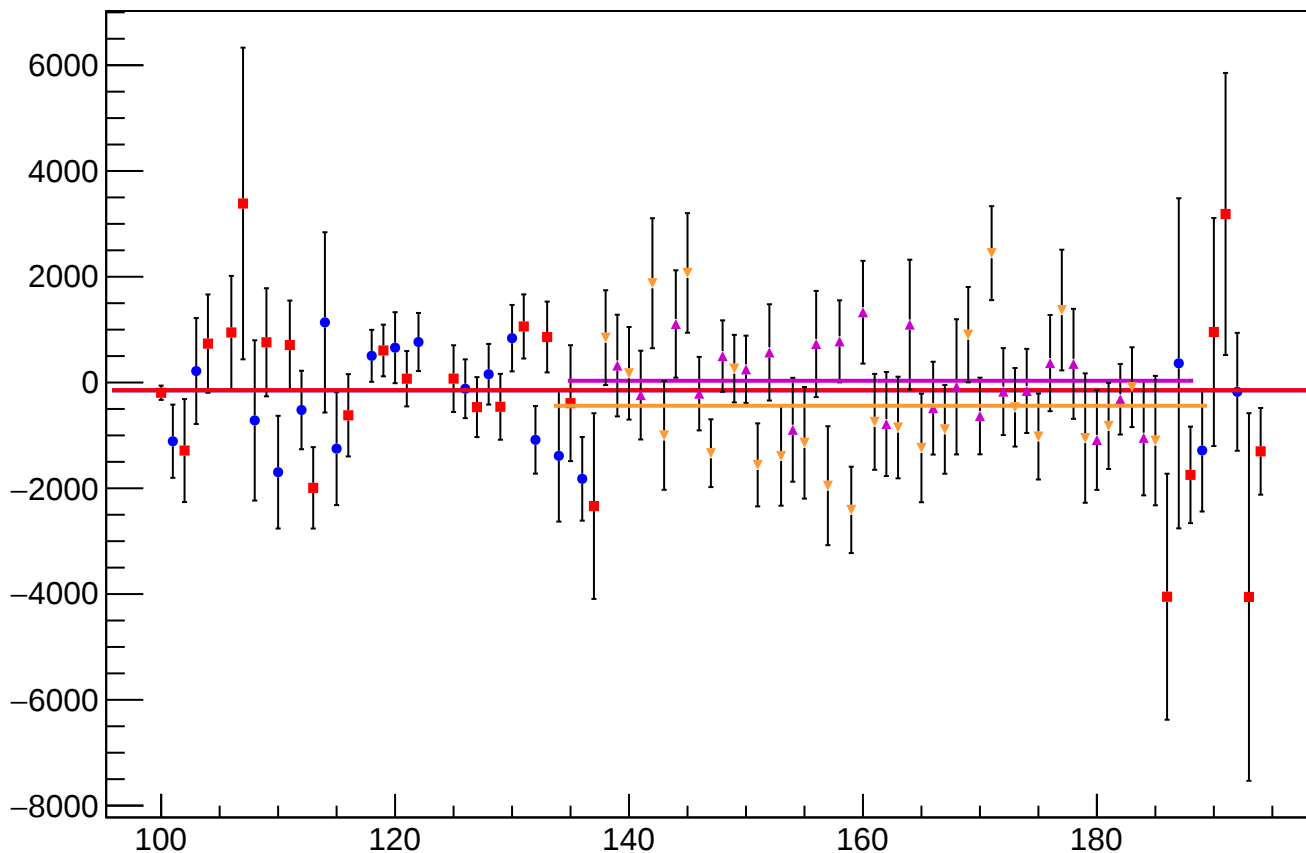
Right: 562.502+/-0.106 χ^2/NDF : 4491084.3/42

In: 563.307+/-0.081 χ^2/NDF : 1624920.2/41

Out: 566.885+/-0.079 χ^2/NDF : 3730355.5/48

All: 565.128+/-0.057 χ^2/NDF : 5356271.4/90

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -148.073+/-175.997 χ^2/NDF : 23.5/18

Left Out: -439.659+/-177.808 χ^2/NDF : 43.6/24

Right Out: -145.140+/-105.832 χ^2/NDF : 34.8/23

Left In: 33.325+/-179.355 χ^2/NDF : 12.1/22

Left: -205.215+/-126.273 χ^2/NDF : 59.2/47

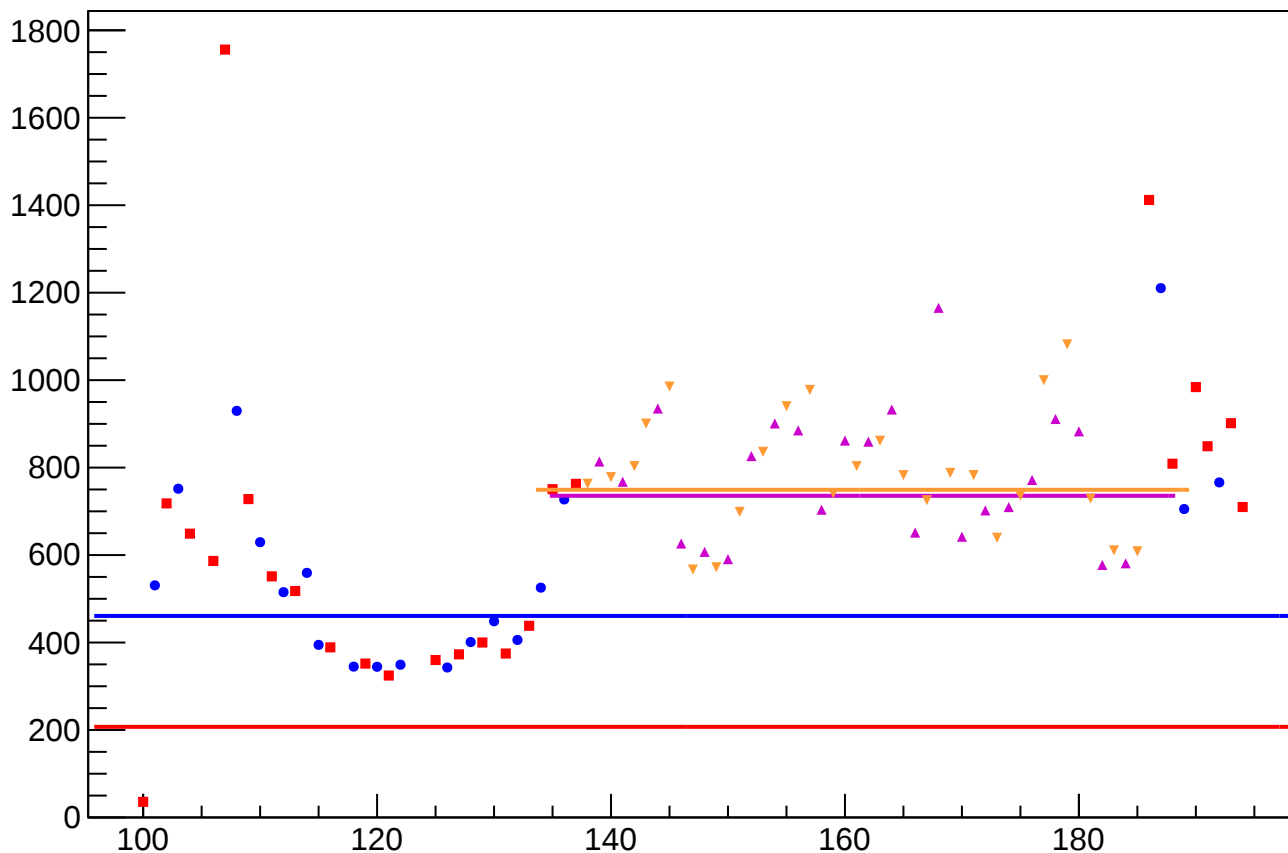
Right: -145.919+/-90.697 χ^2/NDF : 58.4/42

In: -59.088+/-125.619 χ^2/NDF : 36.2/41

Out: -222.184+/-90.942 χ^2/NDF : 80.4/48

All: -166.099+/-73.664 χ^2/NDF : 117.7/90

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 460.826 $\pm$ 0.124 χ^2 /NDF: 1424417.9/18

Left Out: 749.270 $\pm$ 0.126 χ^2 /NDF: 1054352.9/24

Right Out: 207.203 $\pm$ 0.075 χ^2 /NDF: 10780817.9/23

Left In: 735.543 $\pm$ 0.127 χ^2 /NDF: 1105222.3/22

Left: 742.466 $\pm$ 0.089 χ^2 /NDF: 2165483.4/47

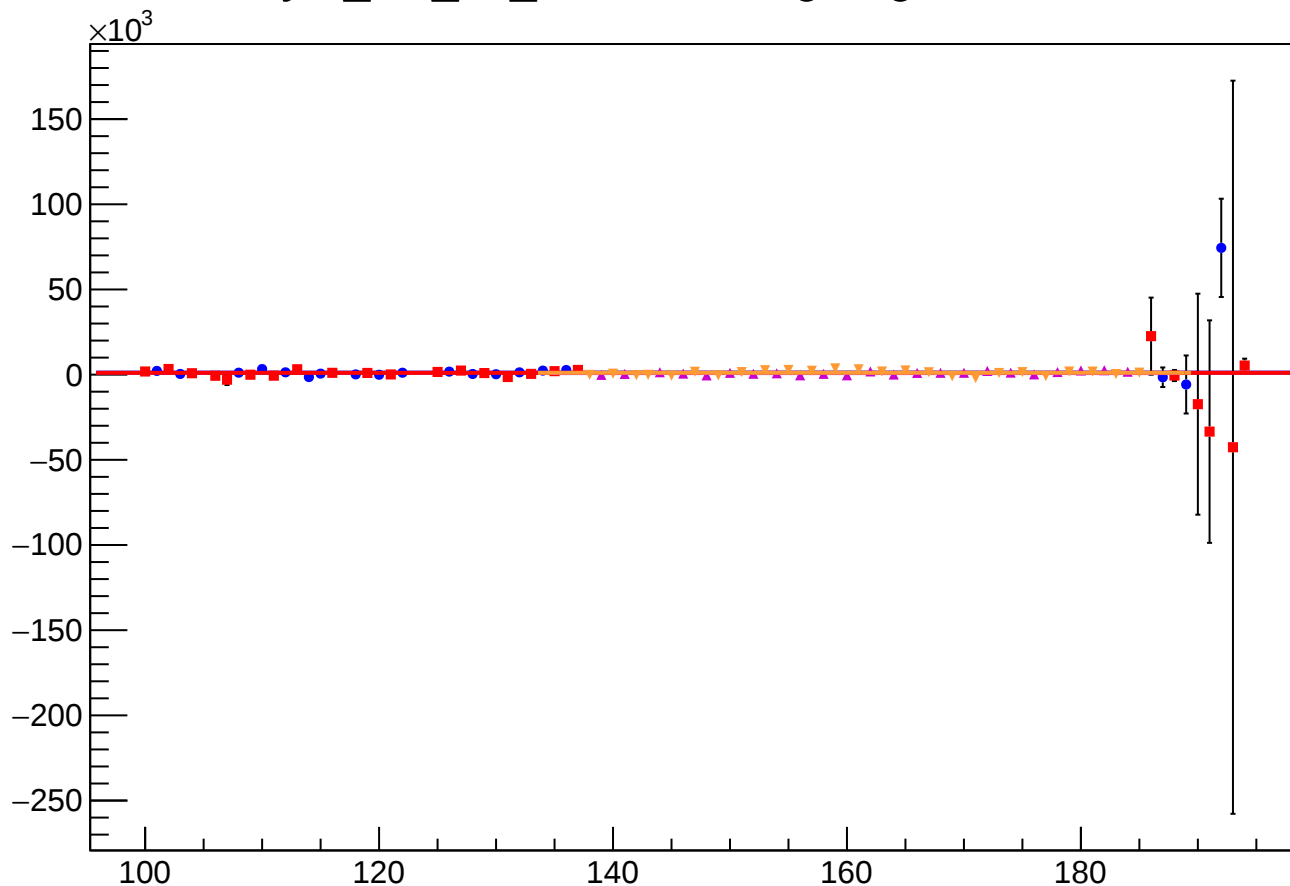
Right: 274.557 $\pm$ 0.064 χ^2 /NDF: 15255575.1/42

In: 595.589 $\pm$ 0.089 χ^2 /NDF: 4920047.1/41

Out: 349.004 $\pm$ 0.064 χ^2 /NDF: 25560623.3/48

All: 433.799 $\pm$ 0.052 χ^2 /NDF: 35537000.7/90

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1185.378 $\pm$ 295.446 χ^2 /NDF: 18.5/18

Left Out: 1096.531 $\pm$ 227.868 χ^2 /NDF: 38.4/24

Right Out: 1058.643 $\pm$ 279.873 χ^2 /NDF: 25.1/23

Left In: 926.281 $\pm$ 228.196 χ^2 /NDF: 15.1/22

Left: 1011.528 $\pm$ 161.243 χ^2 /NDF: 53.8/47

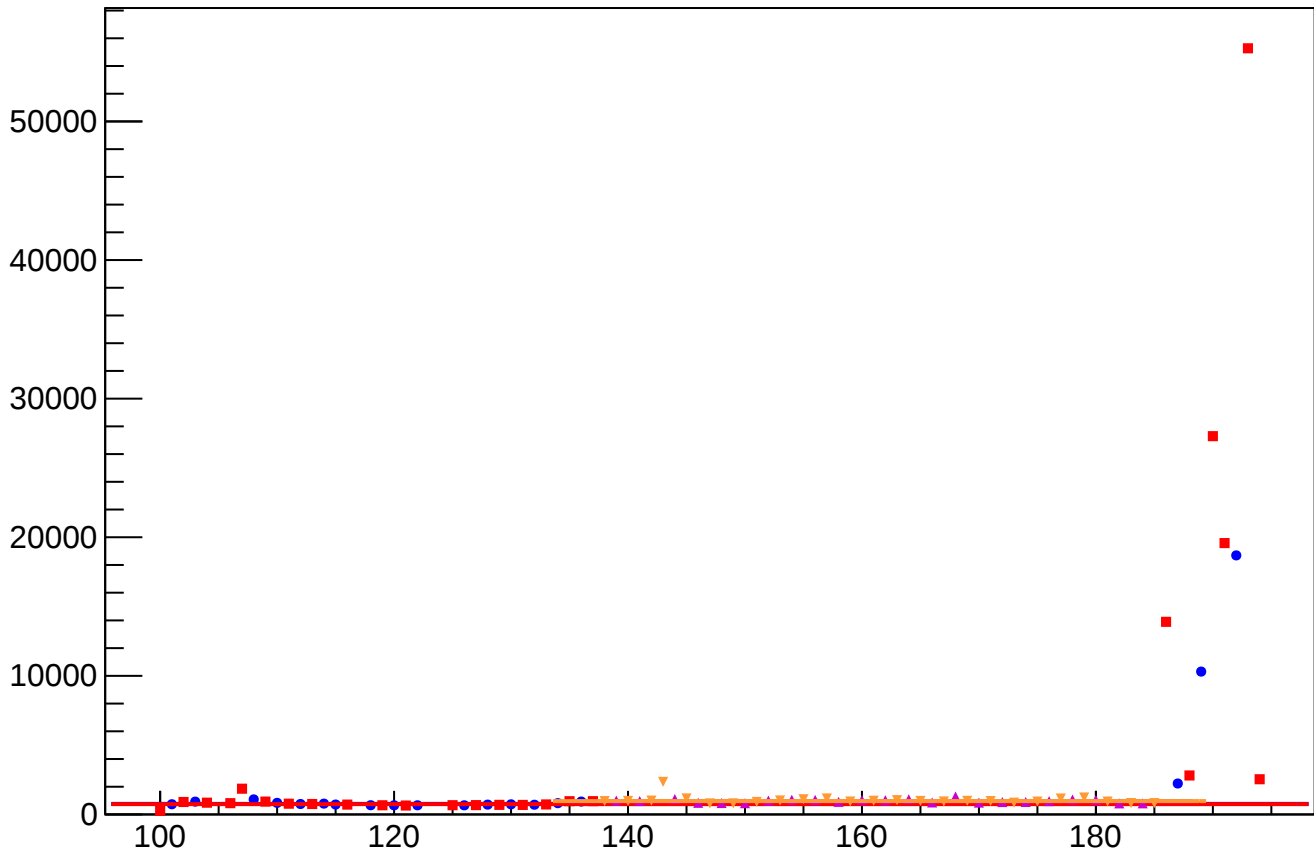
Right: 1118.582 $\pm$ 203.182 χ^2 /NDF: 43.7/42

In: 1023.094 $\pm$ 180.599 χ^2 /NDF: 34.1/41

Out: 1081.427 $\pm$ 176.706 χ^2 /NDF: 63.6/48

All: 1052.896 $\pm$ 126.304 χ^2 /NDF: 97.7/90

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 761.970 $\pm$ 0.209 χ^2/NDF : 1788082.7/18

Left Out: 963.933 $\pm$ 0.161 χ^2/NDF : 1003095.2/24

Right Out: 744.754 $\pm$ 0.198 χ^2/NDF : 3517333.1/23

Left In: 946.041 $\pm$ 0.161 χ^2/NDF : 501442.7/22

Left: 955.000 $\pm$ 0.114 χ^2/NDF : 1510694.5/47

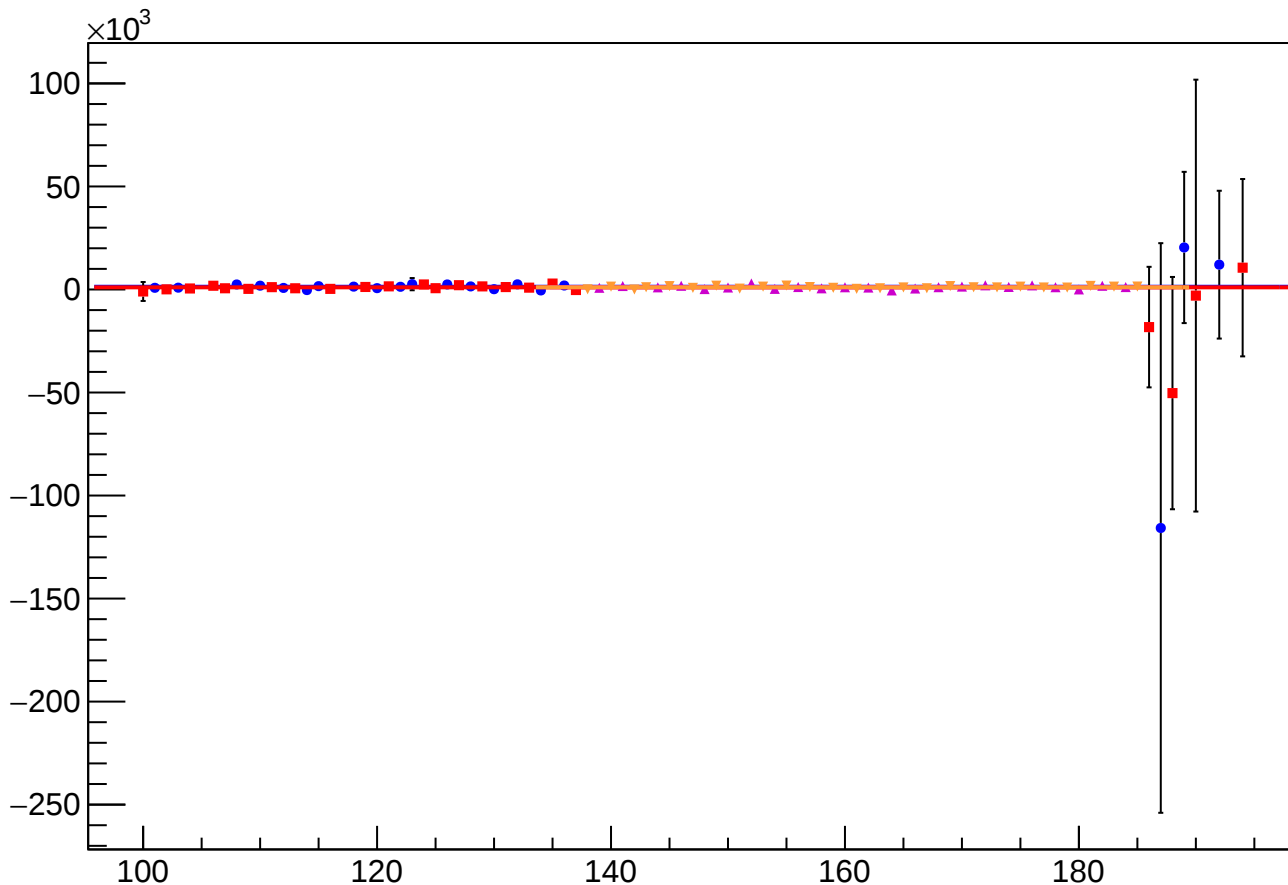
Right: 752.896 $\pm$ 0.144 χ^2/NDF : 5308994.9/42

In: 877.261 $\pm$ 0.128 χ^2/NDF : 2775772.7/41

Out: 876.559 $\pm$ 0.125 χ^2/NDF : 5258064.7/48

All: 876.903 $\pm$ 0.089 χ^2/NDF : 8033852.9/90

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1324.833 ± 218.592 $\chi^2/\text{NDF}: 13.9/19$

Left Out: 1073.626 ± 129.690 $\chi^2/\text{NDF}: 15.1/24$

Right Out: 1038.976 ± 212.069 $\chi^2/\text{NDF}: 14.8/22$

Left In: 1123.857 ± 133.163 $\chi^2/\text{NDF}: 30.0/22$

Left: 1098.077 ± 92.908 $\chi^2/\text{NDF}: 45.2/47$

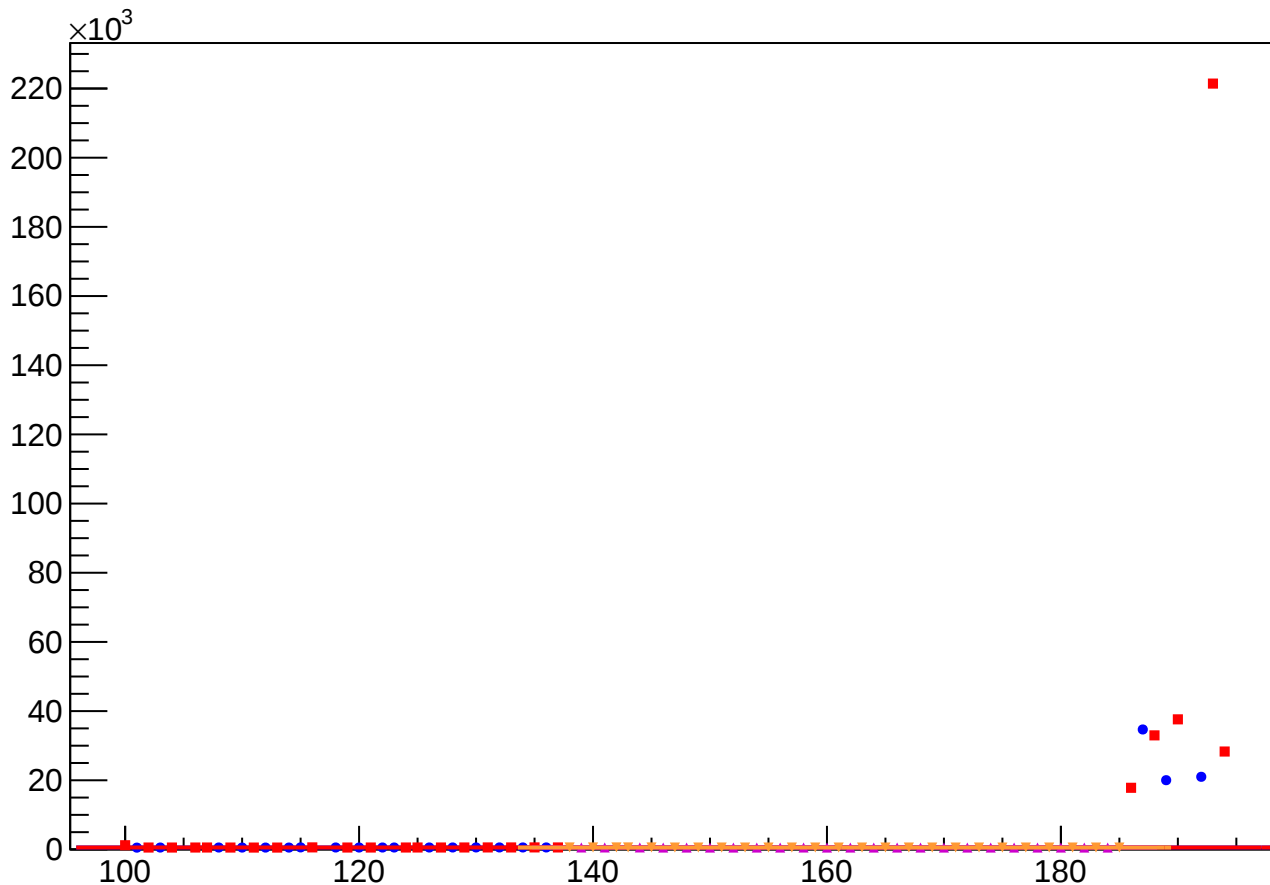
Right: 1177.576 ± 152.209 $\chi^2/\text{NDF}: 29.6/42$

In: 1178.253 ± 113.723 $\chi^2/\text{NDF}: 44.5/42$

Out: 1064.194 ± 110.641 $\chi^2/\text{NDF}: 30.0/47$

All: 1119.657 ± 79.302 $\chi^2/\text{NDF}: 75.0/90$

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 565.066 $\pm$ 0.155 χ^2 /NDF: 1356634.4/19

Left Out: 557.534 $\pm$ 0.092 χ^2 /NDF:14752.8/24

Right Out: 567.559 $\pm$ 0.150 χ^2 /NDF: 2642802.8/23

Left In: 556.969 $\pm$ 0.094 χ^2 /NDF:11209.7/22

Left: 557.259 $\pm$ 0.066 χ^2 /NDF: 25980.9/47

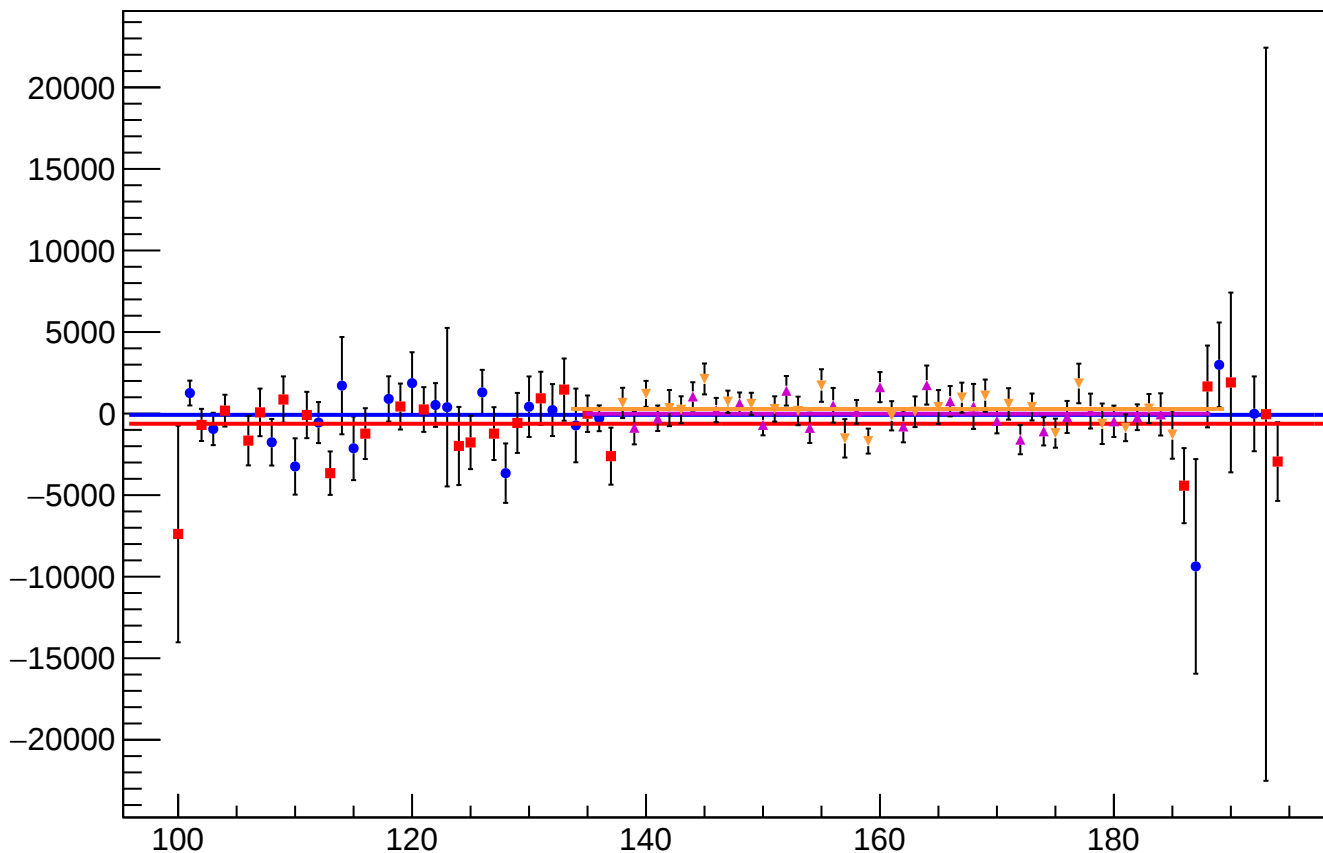
Right: 566.350 $\pm$ 0.108 χ^2 /NDF: 3999571.2/43

In: 559.160 $\pm$ 0.080 χ^2 /NDF:1369845.4/42

Out: 560.263 $\pm$ 0.078 χ^2 /NDF:2660808.0/48

All: 559.727 $\pm$ 0.056 χ^2 /NDF: 4030750.0/91

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -77.716 ± 322.053 χ^2/NDF : 20.4/19

Left Out: 281.875 ± 180.423 χ^2/NDF : 26.7/24

Right Out: -623.578 ± 323.190 χ^2/NDF : 19.3/23

Left In: -8.211 ± 183.382 χ^2/NDF : 20.2/22

Left: 139.190 ± 128.612 χ^2/NDF : 48.2/47

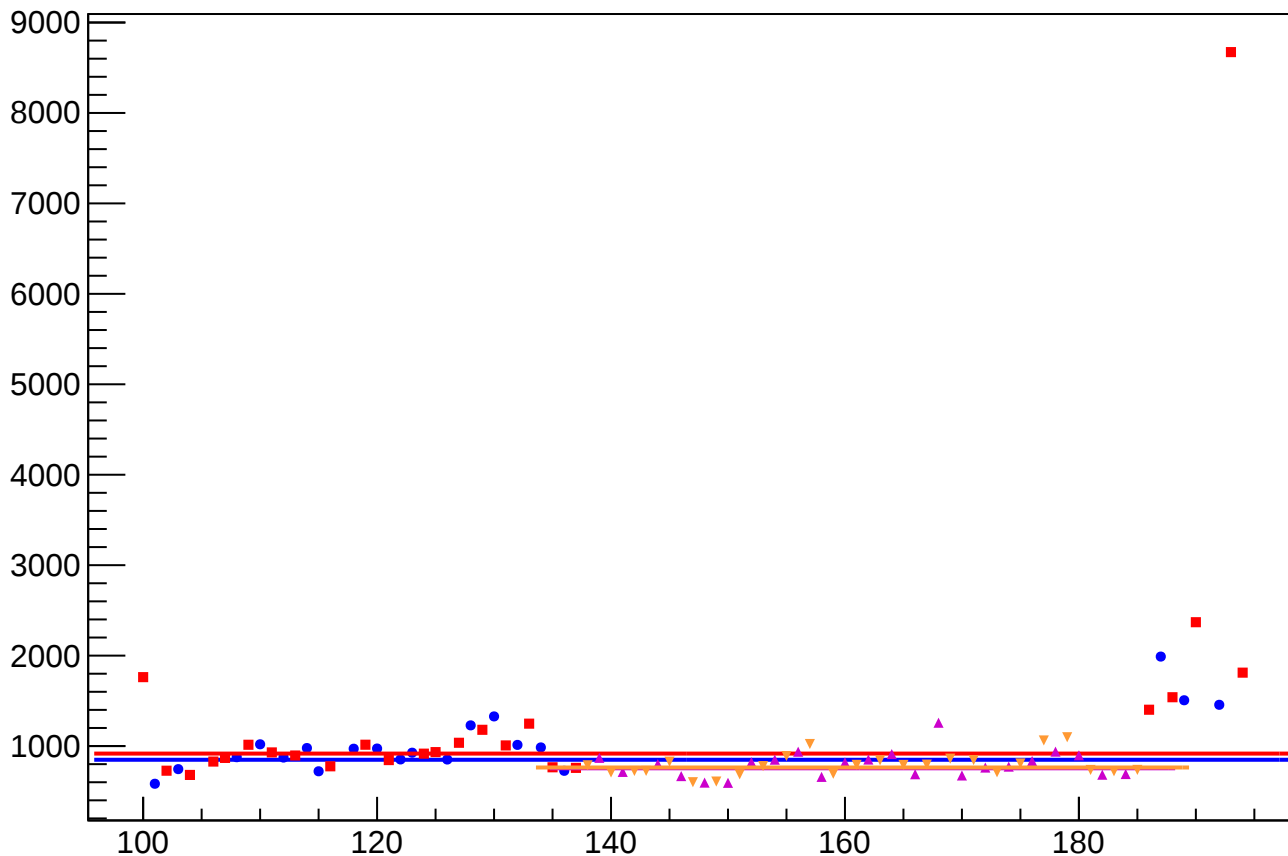
Right: -349.685 ± 228.127 χ^2/NDF : 41.2/43

In: -25.229 ± 159.358 χ^2/NDF : 40.6/42

Out: 66.738 ± 157.537 χ^2/NDF : 52.0/48

All: 21.282 ± 112.034 χ^2/NDF : 92.8/91

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 848.472 $\pm$ 0.228 χ^2 /NDF: 948132.3/19

Left Out: 763.085 $\pm$ 0.128 χ^2 /NDF: 753700.1/24

Right Out: 916.847 $\pm$ 0.229 χ^2 /NDF: 1312411.3/23

Left In: 754.099 $\pm$ 0.130 χ^2 /NDF: 931829.3/22

Left: 758.665 $\pm$ 0.091 χ^2 /NDF: 1687969.6/47

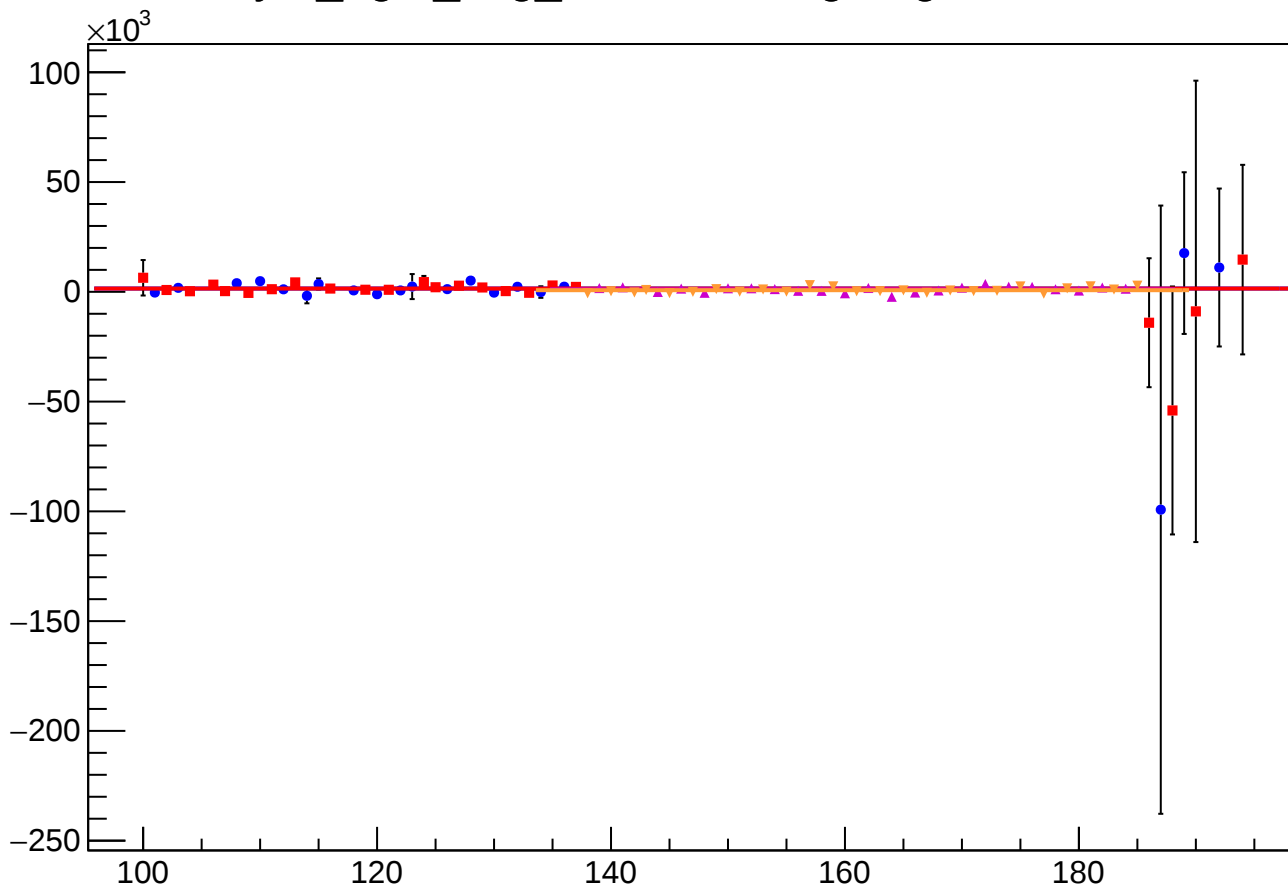
Right: 882.539 $\pm$ 0.161 χ^2 /NDF: 2305460.8/43

In: 777.206 $\pm$ 0.113 χ^2 /NDF: 2009651.8/42

Out: 799.619 $\pm$ 0.111 χ^2 /NDF: 2411253.3/48

All: 788.541 $\pm$ 0.079 χ^2 /NDF: 4440914.5/91

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1500.245 $\pm$ 402.616 χ^2 /NDF: 17.9/19

Left Out: 739.641 $\pm$ 225.535 χ^2 /NDF: 21.5/24

Right Out: 1483.046 $\pm$ 400.651 χ^2 /NDF: 13.4/22

Left In: 1124.587 $\pm$ 230.065 χ^2 /NDF: 25.4/22

Left: 928.287 $\pm$ 161.055 χ^2 /NDF: 48.3/47

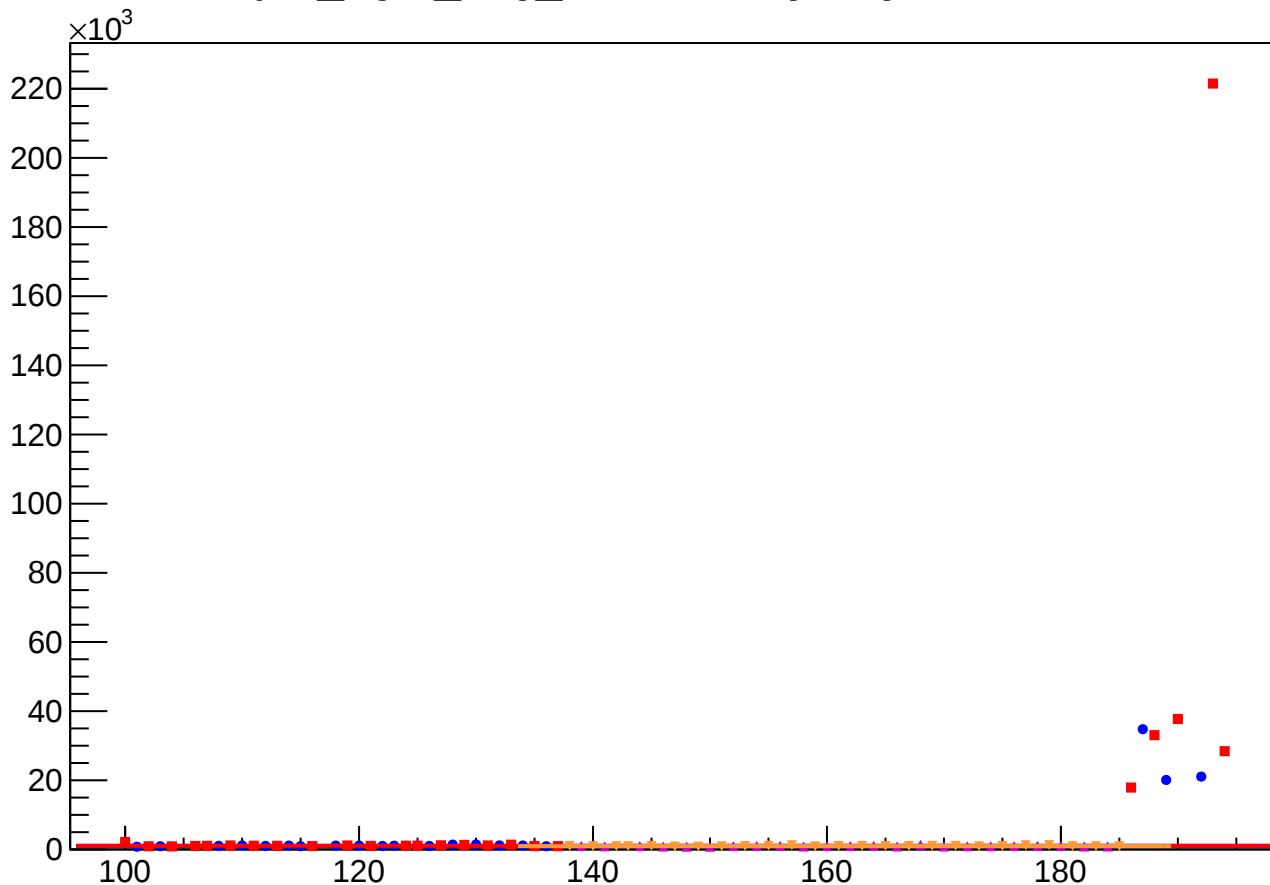
Right: 1491.604 $\pm$ 283.995 χ^2 /NDF: 31.3/42

In: 1217.056 $\pm$ 199.753 χ^2 /NDF: 43.9/42

Out: 918.527 $\pm$ 196.535 χ^2 /NDF: 37.5/47

All: 1065.368 $\pm$ 140.095 χ^2 /NDF: 82.6/90

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1027.118 $\pm$ 0.285 χ^2 /NDF: 1622707.9/19

Left Out: 962.256 $\pm$ 0.159 χ^2 /NDF:362937.6/24

Right Out: 1065.676 $\pm$ 0.283 χ^2 /NDF: 2731334.8/23

Left In: 954.643 $\pm$ 0.163 χ^2 /NDF:443395.0/22

Left: 958.525 $\pm$ 0.114 χ^2 /NDF: 807449.1/47

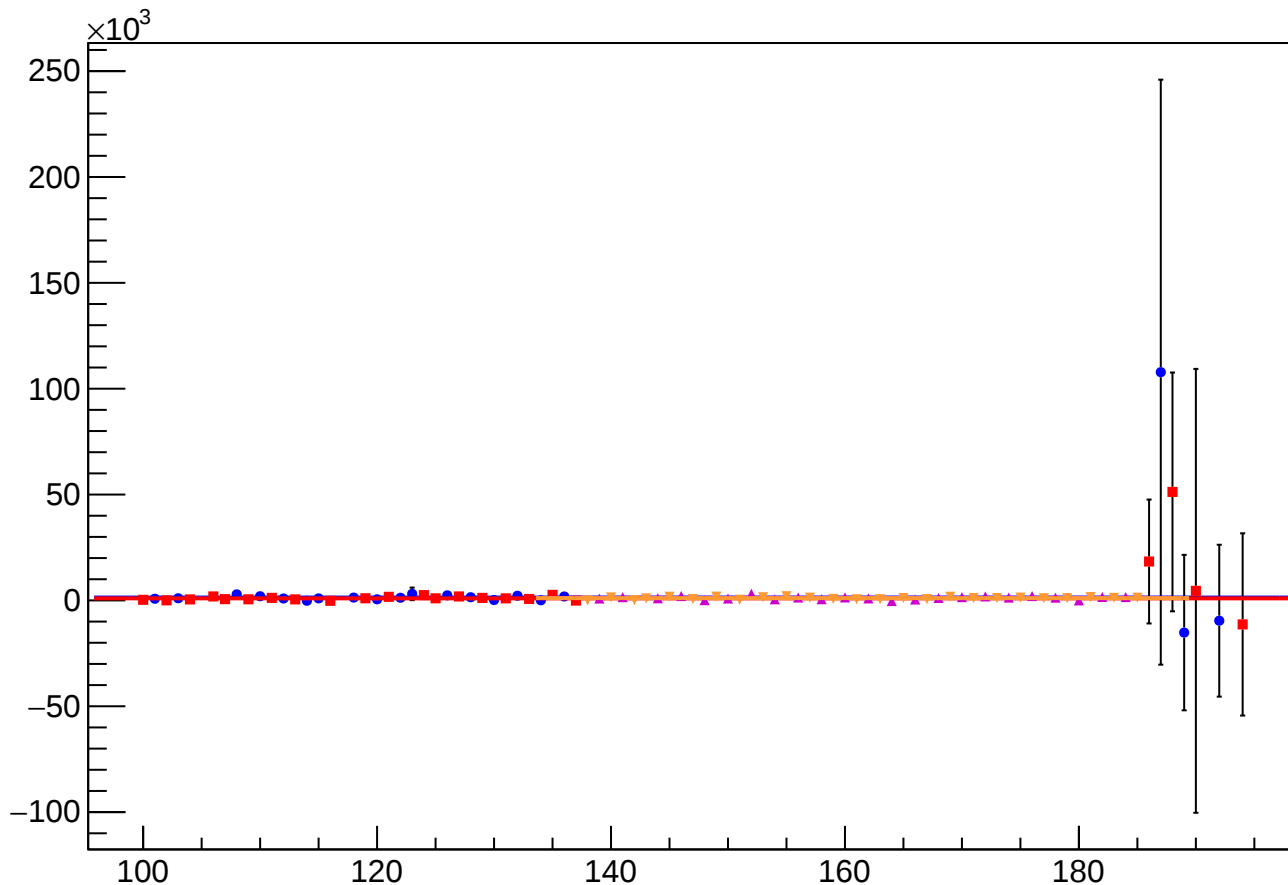
Right: 1046.491 $\pm$ 0.201 χ^2 /NDF: 4363258.9/43

In: 972.483 $\pm$ 0.141 χ^2 /NDF:2114958.0/42

Out: 987.142 $\pm$ 0.139 χ^2 /NDF:3195468.6/48

All: 979.931 $\pm$ 0.099 χ^2 /NDF: 5315899.0/91

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.674 $\pm$ 218.846 χ^2 /NDF: 12.9/19

Left Out: 1087.627 $\pm$ 129.821 χ^2 /NDF:14.9/24

Right Out: 966.736 $\pm$ 208.604 χ^2 /NDF: 13.4/22

Left In: 1189.481 $\pm$ 133.313 χ^2 /NDF:32.2/22

Left: 1137.202 $\pm$ 93.008 χ^2 /NDF: 47.4/47

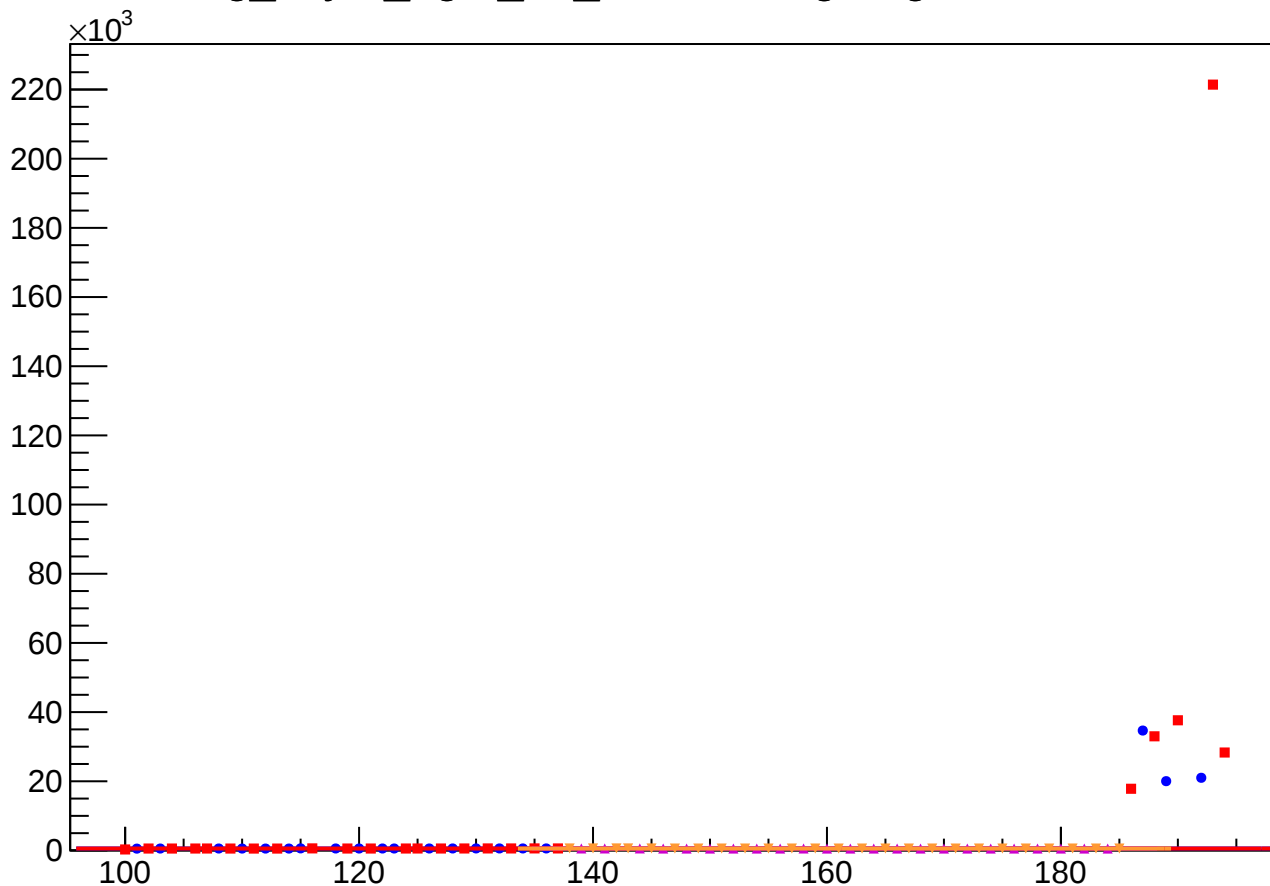
Right: 1146.654 $\pm$ 150.997 χ^2 /NDF: 27.9/42

In: 1231.484 $\pm$ 113.852 χ^2 /NDF:45.4/42

Out: 1053.877 $\pm$ 110.220 χ^2 /NDF:28.6/47

All: 1139.802 $\pm$ 79.190 χ^2 /NDF: 75.3/90

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 565.722 $\pm$ 0.155 χ^2 /NDF: 1356681.2/19

Left Out: 558.099 $\pm$ 0.092 χ^2 /NDF:14785.2/24

Right Out: 556.622 $\pm$ 0.148 χ^2 /NDF: 2728186.7/23

Left In: 557.597 $\pm$ 0.094 χ^2 /NDF:11276.8/22

Left: 557.854 $\pm$ 0.066 χ^2 /NDF: 26076.6/47

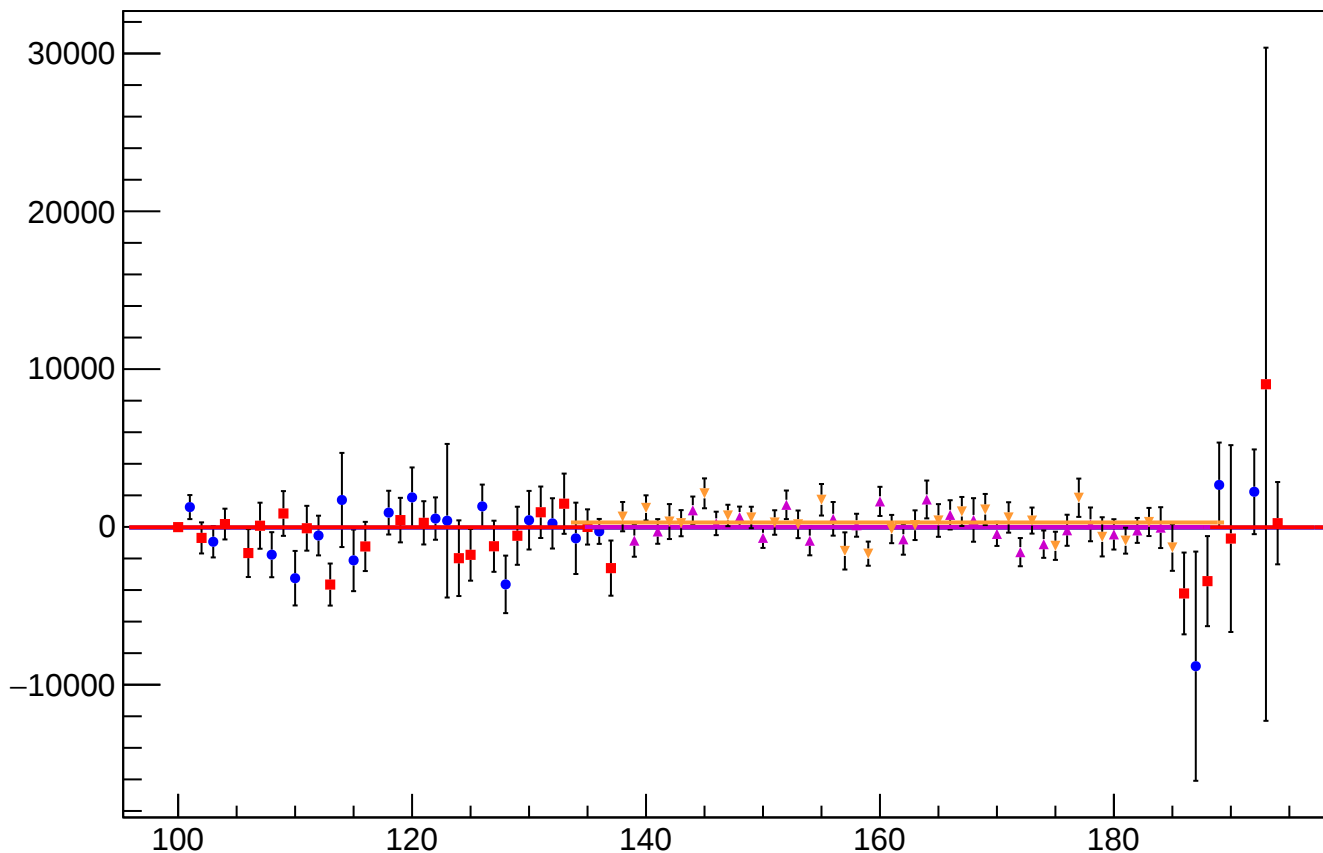
Right: 560.954 $\pm$ 0.107 χ^2 /NDF: 4086679.6/43

In: 559.796 $\pm$ 0.081 χ^2 /NDF:1369968.7/42

Out: 557.687 $\pm$ 0.078 χ^2 /NDF:2743044.2/48

All: 558.707 $\pm$ 0.056 χ^2 /NDF: 4113367.1/91

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -46.037+/-323.241 χ^2/NDF : 20.2/19

Left Out: 281.402+/-180.478 χ^2/NDF :26.8/24

Right Out: -21.607+/-38.942 χ^2/NDF : 20.1/23

Left In: -7.306+/-183.473 χ^2/NDF :20.1/22

Left: 139.424+/-128.663 χ^2/NDF : 48.2/47

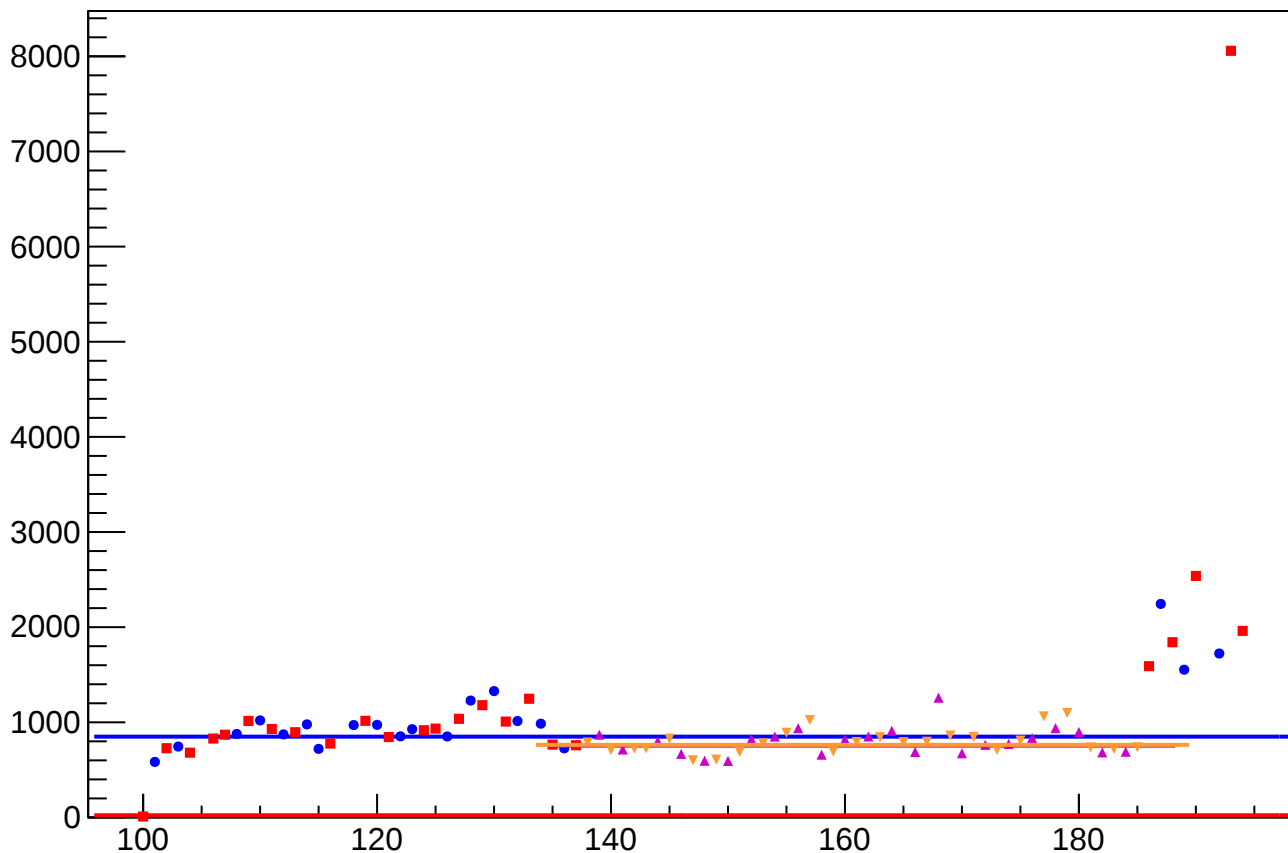
Right: -21.956+/-38.662 χ^2/NDF : 40.4/43

In: -16.744+/-159.561 χ^2/NDF :40.4/42

Out: -8.127+/-38.066 χ^2/NDF :49.6/48

All: -8.591+/-37.027 χ^2/NDF : 90.0/91

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 849.365+/-0.229 χ^2/NDF : 1042740.4/19

Left Out: 763.307+/-0.128 χ^2/NDF : 753728.9/24

Right Out: 23.033+/-0.028 χ^2/NDF : 16776106.9/23

Left In: 754.483+/-0.130 χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091 χ^2/NDF : 1687616.8/47

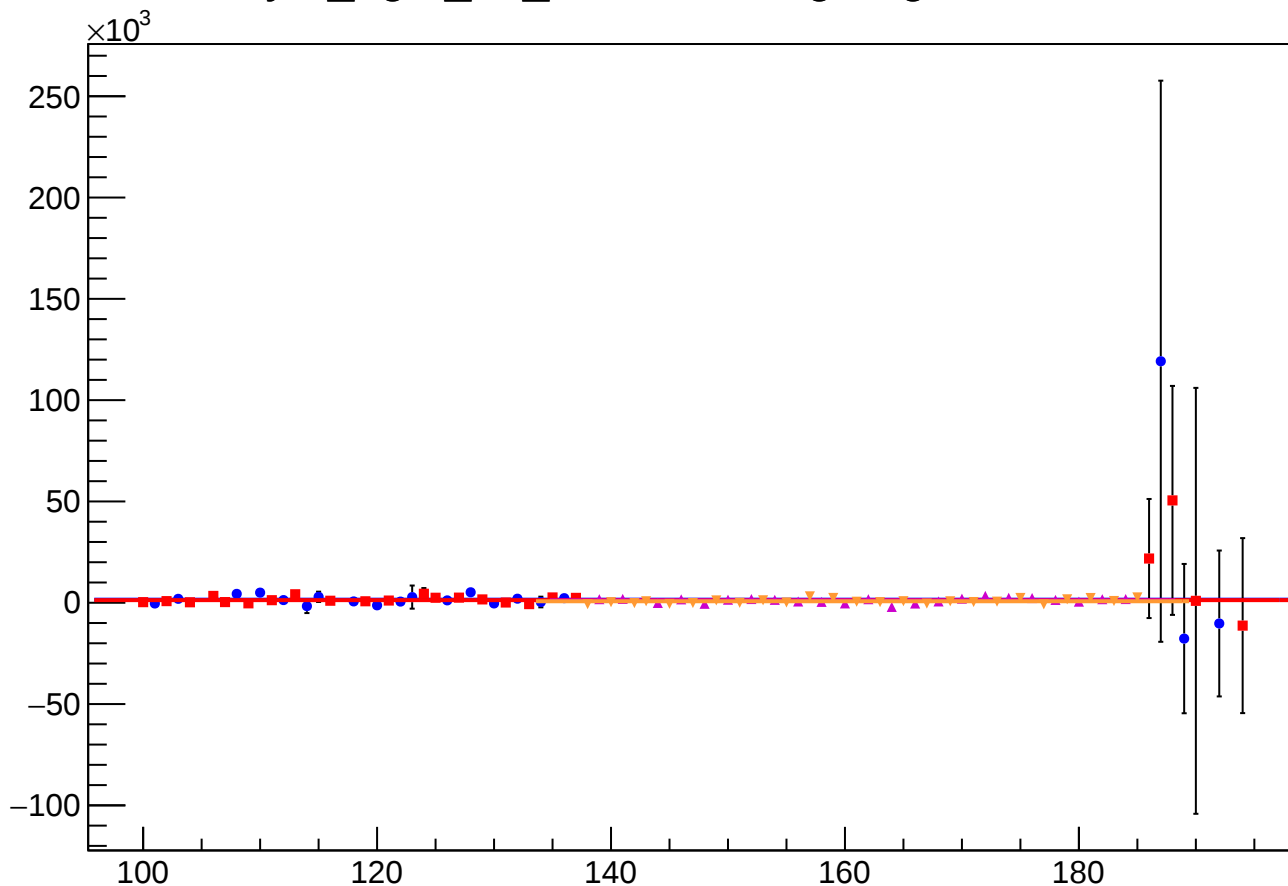
Right: 34.854+/-0.027 χ^2/NDF : 30702167.6/43

In: 777.603+/-0.113 χ^2/NDF : 2104610.2/42

Out: 55.964+/-0.027 χ^2/NDF : 49681485.7/48

All: 94.823+/-0.026 χ^2/NDF : 90491710.5/91

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1516.714 ± 402.839 $\chi^2/\text{NDF}: 18.9/19$

Left Out: 742.825 ± 225.658 $\chi^2/\text{NDF}: 20.2/24$

Right Out: 1292.138 ± 376.623 $\chi^2/\text{NDF}: 13.7/22$

Left In: 1176.288 ± 230.229 $\chi^2/\text{NDF}: 24.2/22$

Left: 955.211 ± 161.156 $\chi^2/\text{NDF}: 46.3/47$

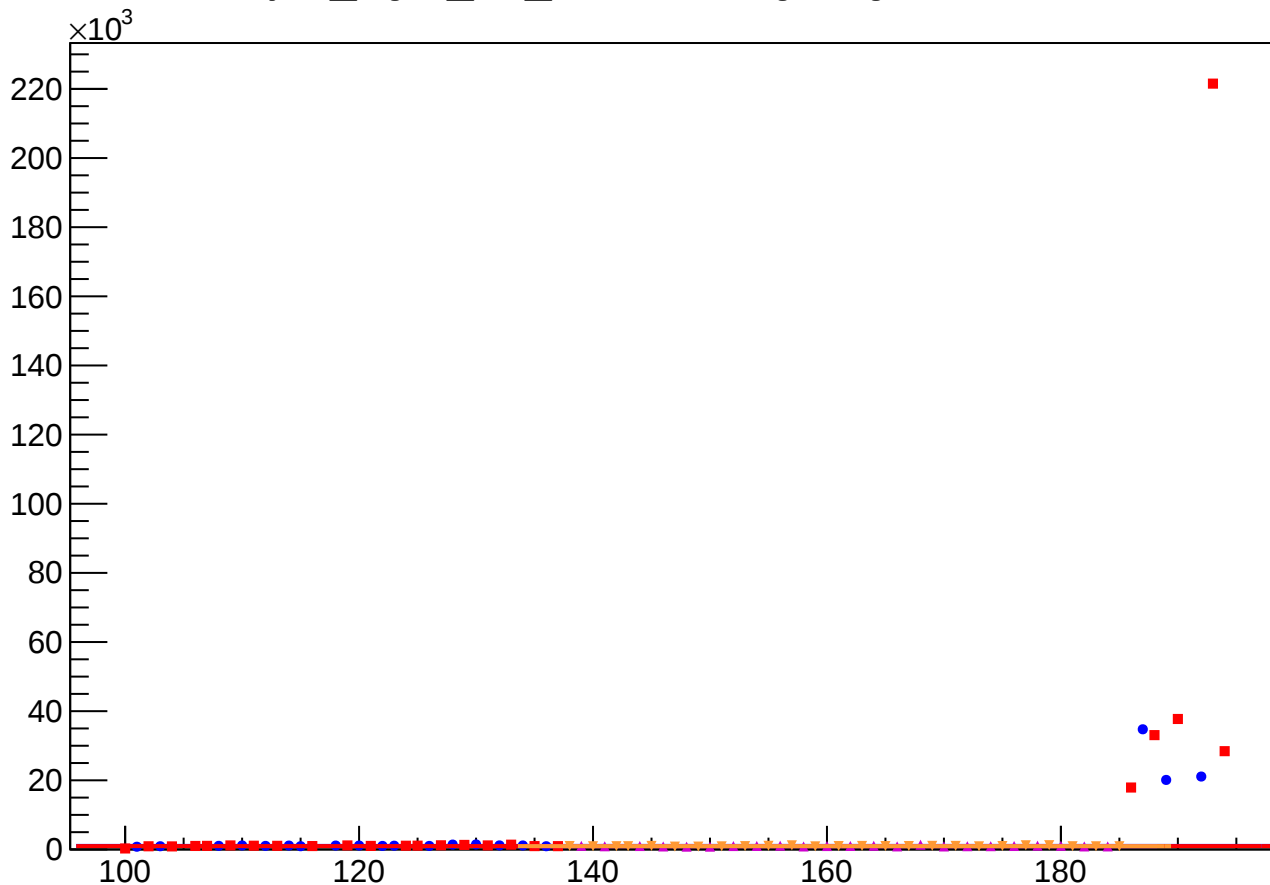
Right: 1396.881 ± 275.114 $\chi^2/\text{NDF}: 32.8/42$

In: 1260.104 ± 199.887 $\chi^2/\text{NDF}: 43.7/42$

Out: 887.932 ± 193.572 $\chi^2/\text{NDF}: 35.5/47$

All: 1068.046 ± 139.055 $\chi^2/\text{NDF}: 81.0/90$

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1027.692 $\pm$ 0.285 χ^2 /NDF: 1622801.5/19

Left Out: 962.776 $\pm$ 0.160 χ^2 /NDF: 362837.8/24

Right Out: 971.044 $\pm$ 0.266 χ^2 /NDF: 3585925.0/23

Left In: 955.331 $\pm$ 0.163 χ^2 /NDF: 443068.5/22

Left: 959.128 $\pm$ 0.114 χ^2 /NDF: 806973.3/47

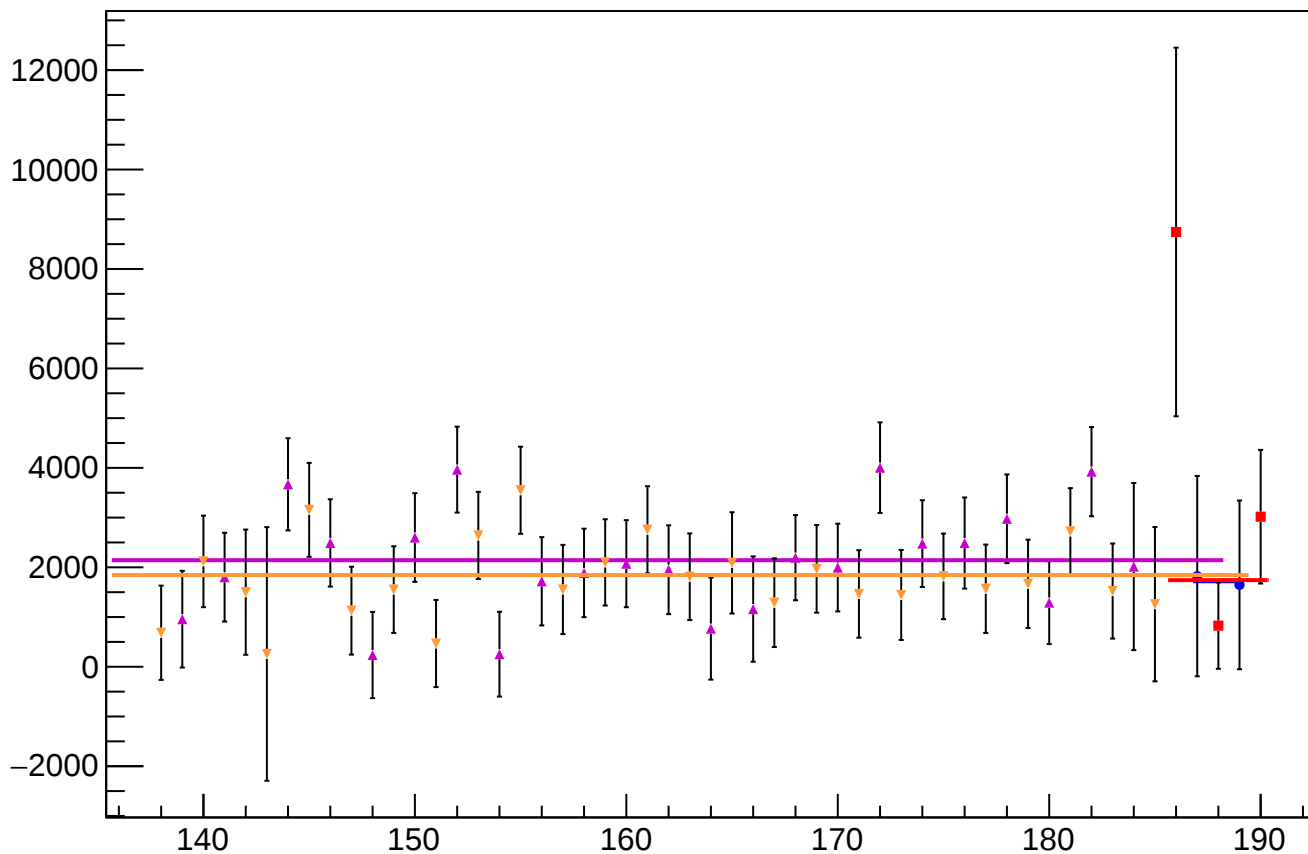
Right: 997.465 $\pm$ 0.195 χ^2 /NDF: 5229829.7/43

In: 973.147 $\pm$ 0.141 χ^2 /NDF: 2114514.5/42

Out: 964.960 $\pm$ 0.137 χ^2 /NDF: 3949472.0/48

All: 968.922 $\pm$ 0.098 χ^2 /NDF: 6065717.6/91

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 1720.097+/-1297.686 χ^2/NDF : 0.0/1

Left Out: 1844.361+/-186.909 χ^2/NDF :15.4/24

Right Out: 1742.386+/-715.276 χ^2/NDF : 5.6/2

Left In: 2143.254+/-190.144 χ^2/NDF :32.4/22

Left: 1991.243+/-133.294 χ^2/NDF : 49.0/47

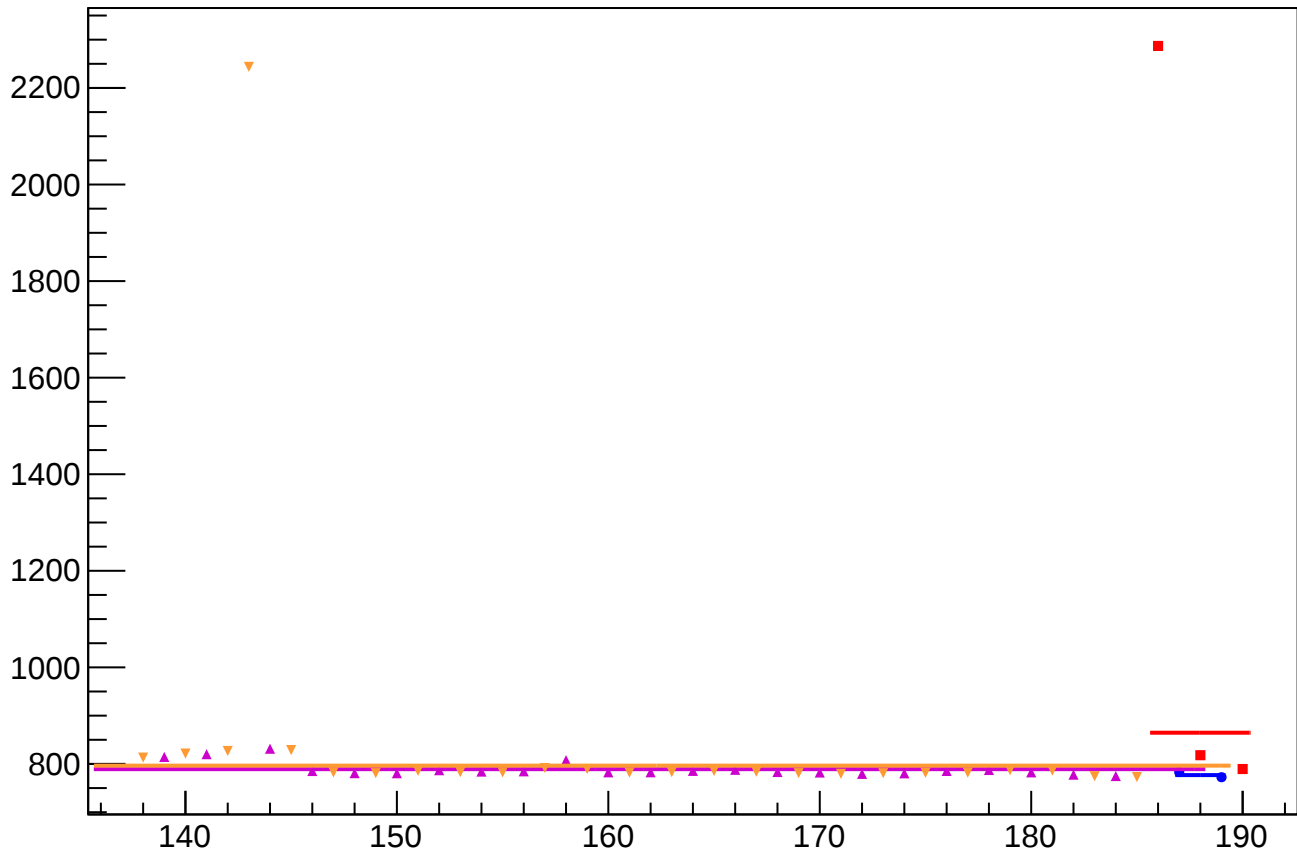
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

In: 2134.360+/-188.135 χ^2/NDF :32.5/24

Out: 1837.843+/-180.837 χ^2/NDF :21.0/27

All: 1980.238+/-130.375 χ^2/NDF : 54.7/52

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.892 ± 0.918 χ^2/NDF : 32.5/1

Left Out: 796.470 ± 0.132 χ^2/NDF : 658729.4/24

Right Out: 864.658 ± 0.506 χ^2/NDF : 306489.7/2

Left In: 789.176 ± 0.134 χ^2/NDF : 10860.4/22

Left: 792.886 ± 0.094 χ^2/NDF : 671086.4/47

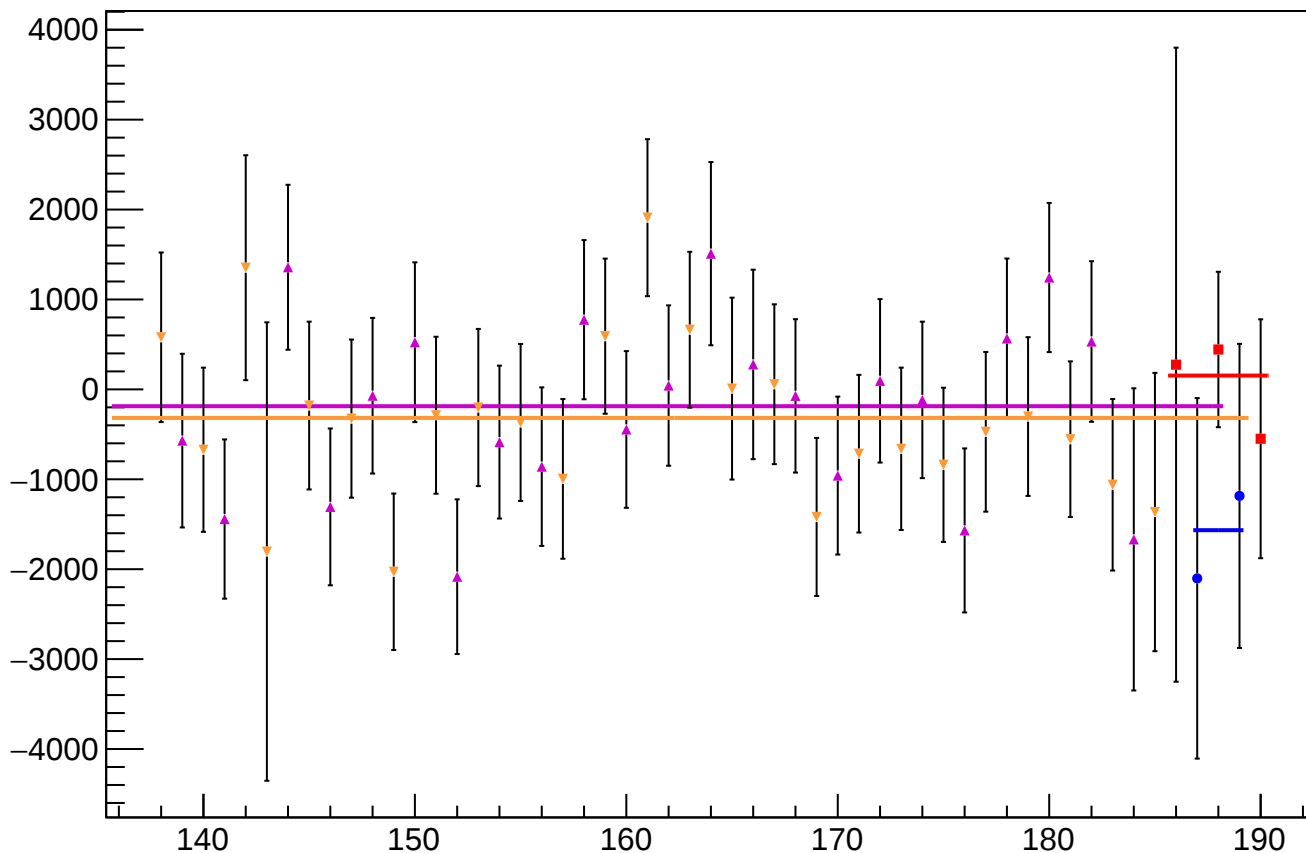
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

In: 788.918 ± 0.133 χ^2/NDF : 11068.4/24

Out: 800.829 ± 0.128 χ^2/NDF : 982233.5/27

All: 795.109 ± 0.092 χ^2/NDF : 997468.1/52

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -1566.105 $\pm$ 1292.689 χ^2 /NDF: 0.1/1

Left Out: -317.611 $\pm$ 186.045 χ^2 /NDF:20.3/24

Right Out: 153.360 $\pm$ 709.634 χ^2 /NDF: 0.4/2

Left In: -187.105 $\pm$ 189.265 χ^2 /NDF:25.6/22

Left: -253.478 $\pm$ 132.678 χ^2 /NDF: 46.1/47

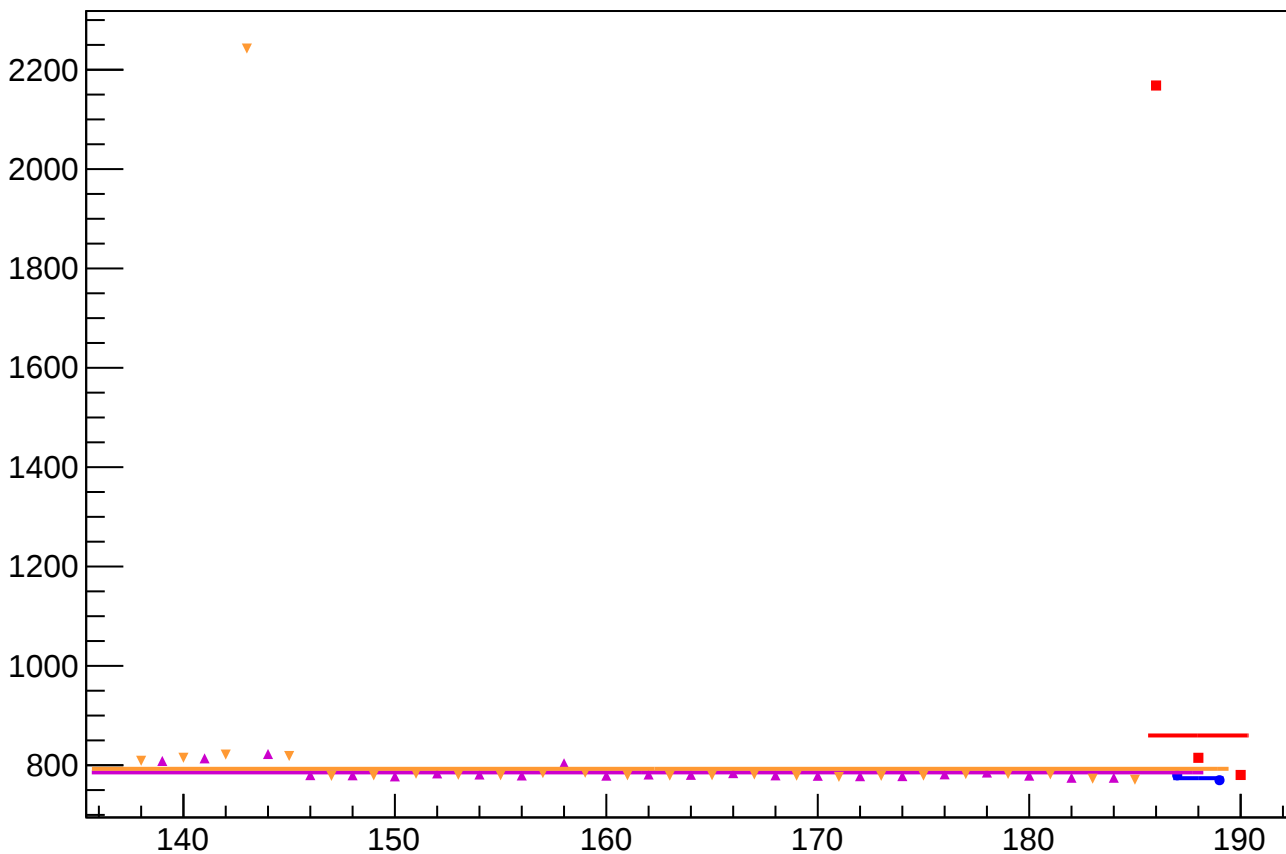
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

In: -216.045 $\pm$ 187.269 χ^2 /NDF:26.8/24

Out: -287.322 $\pm$ 179.963 χ^2 /NDF:21.1/27

All: -253.101 $\pm$ 129.759 χ^2 /NDF: 48.0/52

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.922 $\pm$ 0.914 χ^2/NDF : 27.7/1

Left Out: 792.811 $\pm$ 0.132 χ^2/NDF : 659508.7/24

Right Out: 859.900 $\pm$ 0.502 χ^2/NDF : 287948.2/2

Left In: 785.562 $\pm$ 0.134 χ^2/NDF : 9033.0/22

Left: 789.249 $\pm$ 0.094 χ^2/NDF : 670033.9/47

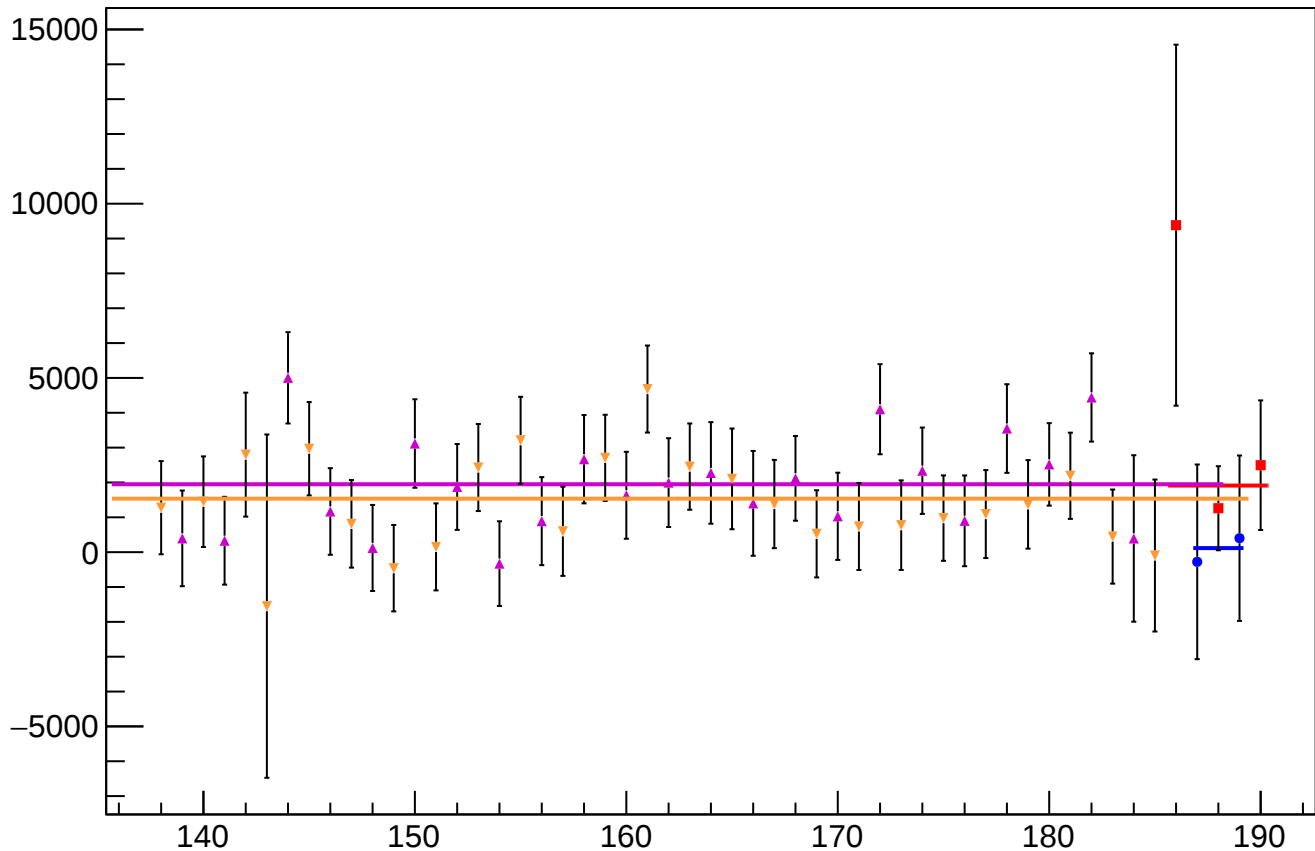
Right: 839.990 $\pm$ 0.440 χ^2/NDF : 294774.5/4

In: 785.318 $\pm$ 0.132 χ^2/NDF : 9219.5/24

Out: 797.126 $\pm$ 0.127 χ^2/NDF : 964183.2/27

All: 791.456 $\pm$ 0.092 χ^2/NDF : 977536.6/52

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 116.401 $\pm$ 1808.672 χ^2 /NDF: 0.0/1

Left Out: 1534.720 $\pm$ 265.890 χ^2 /NDF: 20.3/24

Right Out: 1911.693 $\pm$ 993.236 χ^2 /NDF: 2.5/2

Left In: 1949.077 $\pm$ 270.080 χ^2 /NDF: 26.8/22

Left: 1738.660 $\pm$ 189.477 χ^2 /NDF: 48.3/47

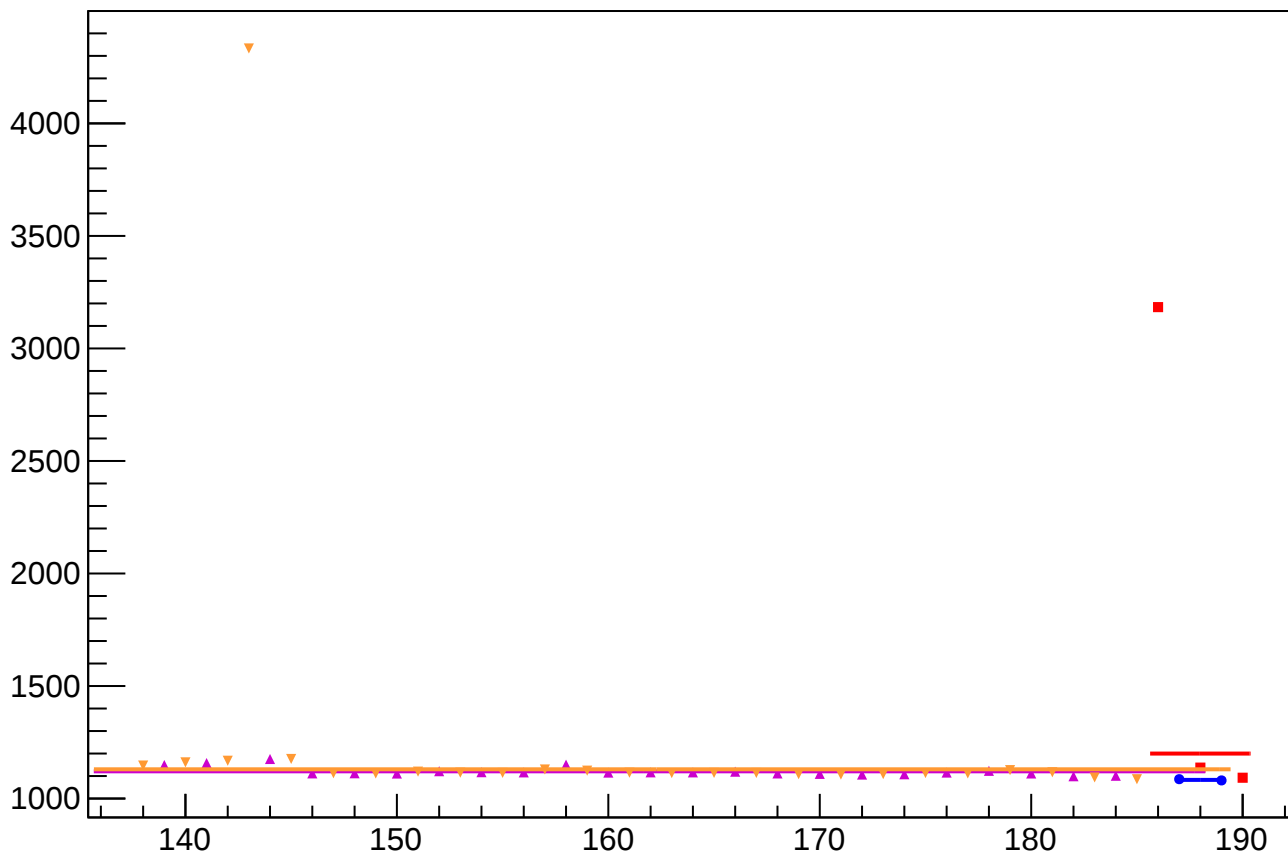
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

In: 1909.103 $\pm$ 267.118 χ^2 /NDF: 27.8/24

Out: 1559.928 $\pm$ 256.846 χ^2 /NDF: 22.9/27

All: 1727.673 $\pm$ 185.143 χ^2 /NDF: 51.6/52

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866 ± 1.279 χ^2/NDF : 4.6/1

Left Out: 1129.937 ± 0.188 χ^2/NDF : 858269.9/24

Right Out: 1199.844 ± 0.702 χ^2/NDF : 305356.1/2

Left In: 1120.977 ± 0.191 χ^2/NDF : 9259.6/22

Left: 1125.527 ± 0.134 χ^2/NDF : 868647.2/47

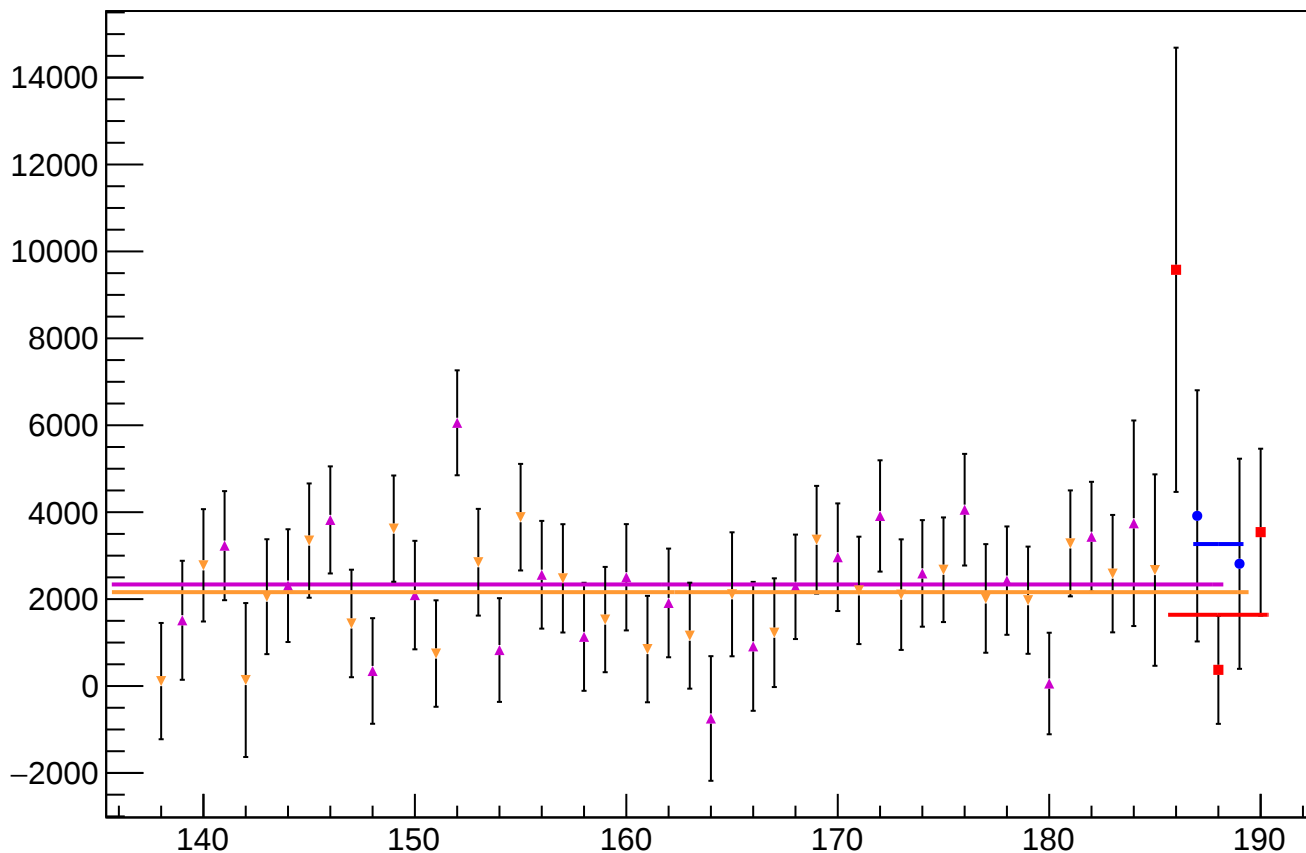
Right: 1172.741 ± 0.616 χ^2/NDF : 311788.3/4

In: 1120.146 ± 0.189 χ^2/NDF : 10132.9/24

Out: 1134.612 ± 0.182 χ^2/NDF : 1172871.0/27

All: 1127.662 ± 0.131 χ^2/NDF : 1186051.5/52

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 3266.922 $\pm$ 1854.338 χ^2 /NDF: 0.1/1

Left Out: 2159.879 $\pm$ 257.526 χ^2 /NDF:15.0/24

Right Out: 1639.449 $\pm$ 1022.123 χ^2 /NDF: 4.4/2

Left In: 2337.232 $\pm$ 266.468 χ^2 /NDF:31.3/22

Left: 2245.530 $\pm$ 185.179 χ^2 /NDF: 46.5/47

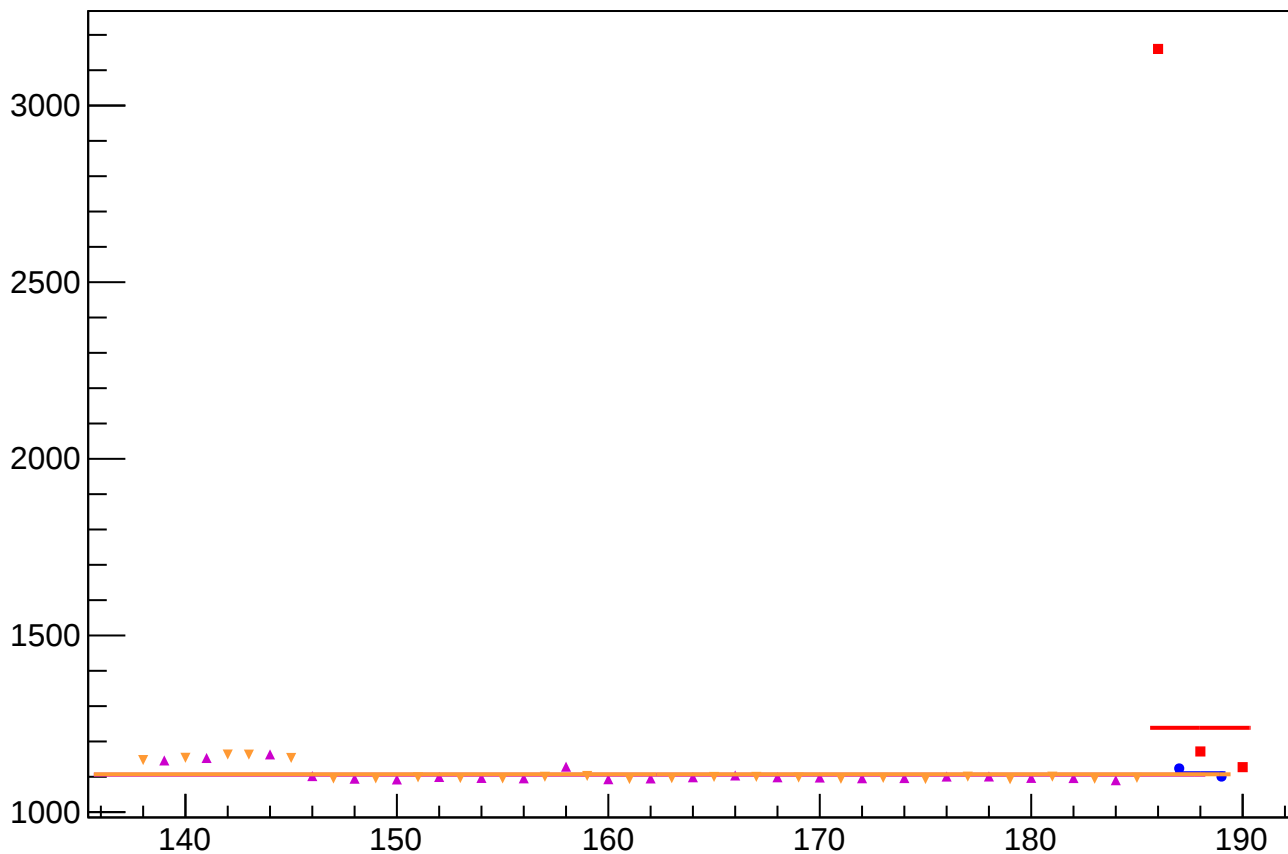
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

In: 2356.041 $\pm$ 263.759 χ^2 /NDF:31.6/24

Out: 2128.815 $\pm$ 249.722 χ^2 /NDF:19.6/27

All: 2236.221 $\pm$ 181.339 χ^2 /NDF: 51.7/52

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1110.109+/-1.311 χ^2/NDF : 75.3/1

Left Out: 1107.091+/-0.182 χ^2/NDF :15185.2/24

Right Out: 1238.637+/-0.723 χ^2/NDF : 295245.1/2

Left In: 1105.955+/-0.188 χ^2/NDF :11111.3/22

Left: 1106.543+/-0.131 χ^2/NDF : 26315.2/47

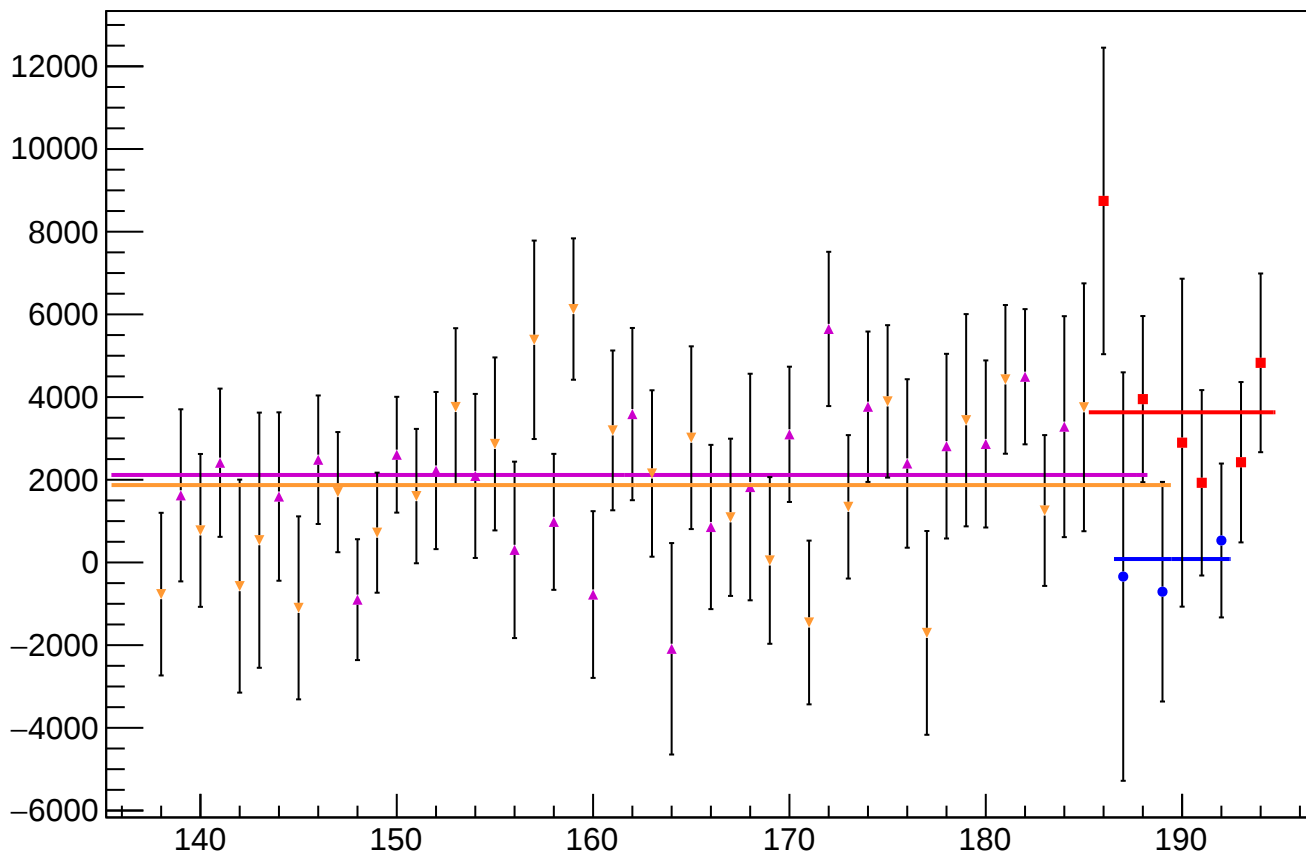
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

In: 1106.039+/-0.187 χ^2/NDF :11196.4/24

Out: 1114.943+/-0.177 χ^2/NDF :341579.9/27

All: 1110.735+/-0.128 χ^2/NDF : 353978.0/52

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 82.947+/-1456.338 χ^2/NDF : 0.2/2

Left Out: 1871.638+/-391.684 χ^2/NDF :26.1/24

Right Out: 3631.982+/-969.918 χ^2/NDF : 3.2/5

Left In: 2116.114+/-392.997 χ^2/NDF :18.8/22

Left: 1993.467+/-277.425 χ^2/NDF : 45.1/47

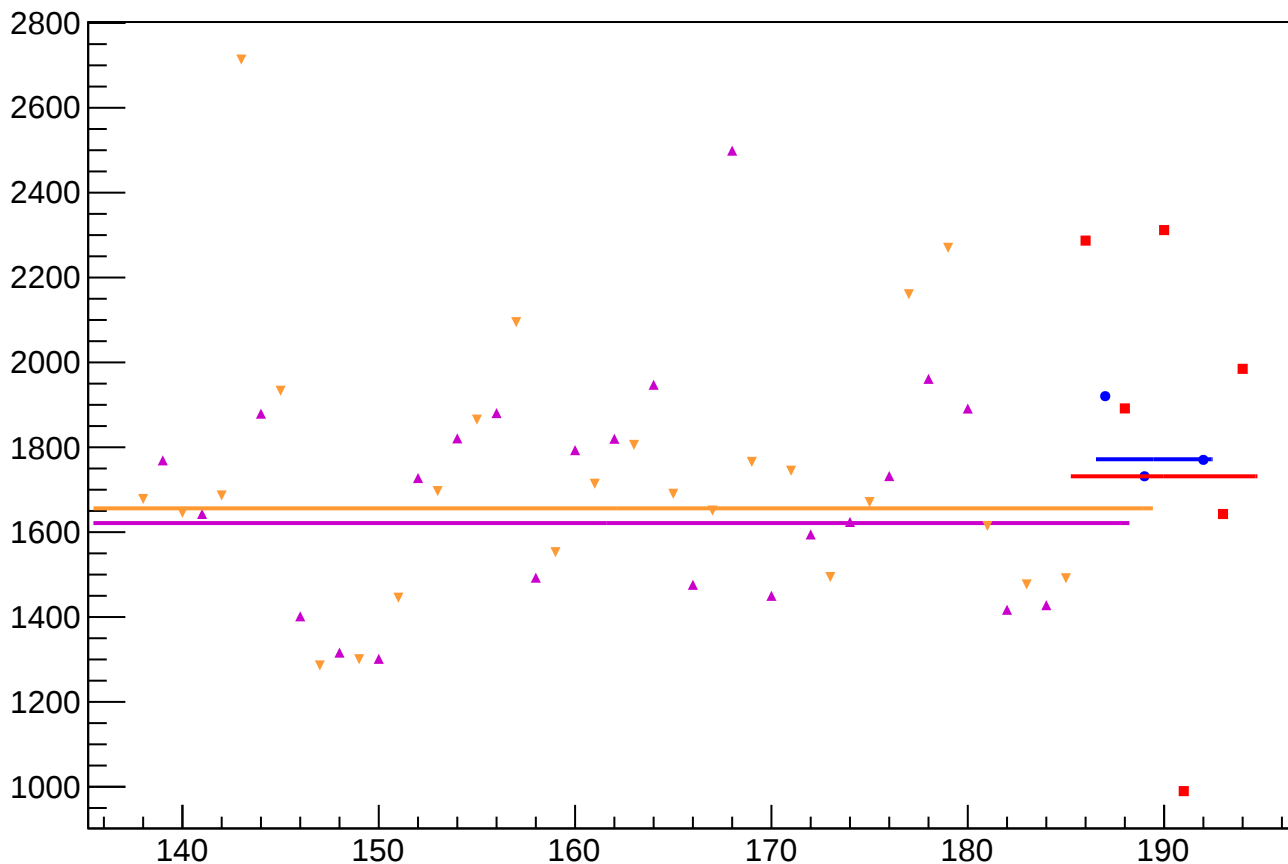
Right: 2541.488+/-807.270 χ^2/NDF : 7.5/8

In: 1978.108+/-379.424 χ^2/NDF :20.8/25

Out: 2118.463+/-363.187 χ^2/NDF :32.2/30

All: 2051.353+/-262.365 χ^2/NDF : 53.0/56

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1771.774 $\pm$ 1.030 χ^2 /NDF: 2268.9/2

Left Out: 1656.119 $\pm$ 0.277 χ^2 /NDF: 910573.4/24

Right Out: 1731.593 $\pm$ 0.686 χ^2 /NDF: 350954.0/5

Left In: 1621.417 $\pm$ 0.278 χ^2 /NDF: 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2 /NDF: 1693706.9/47

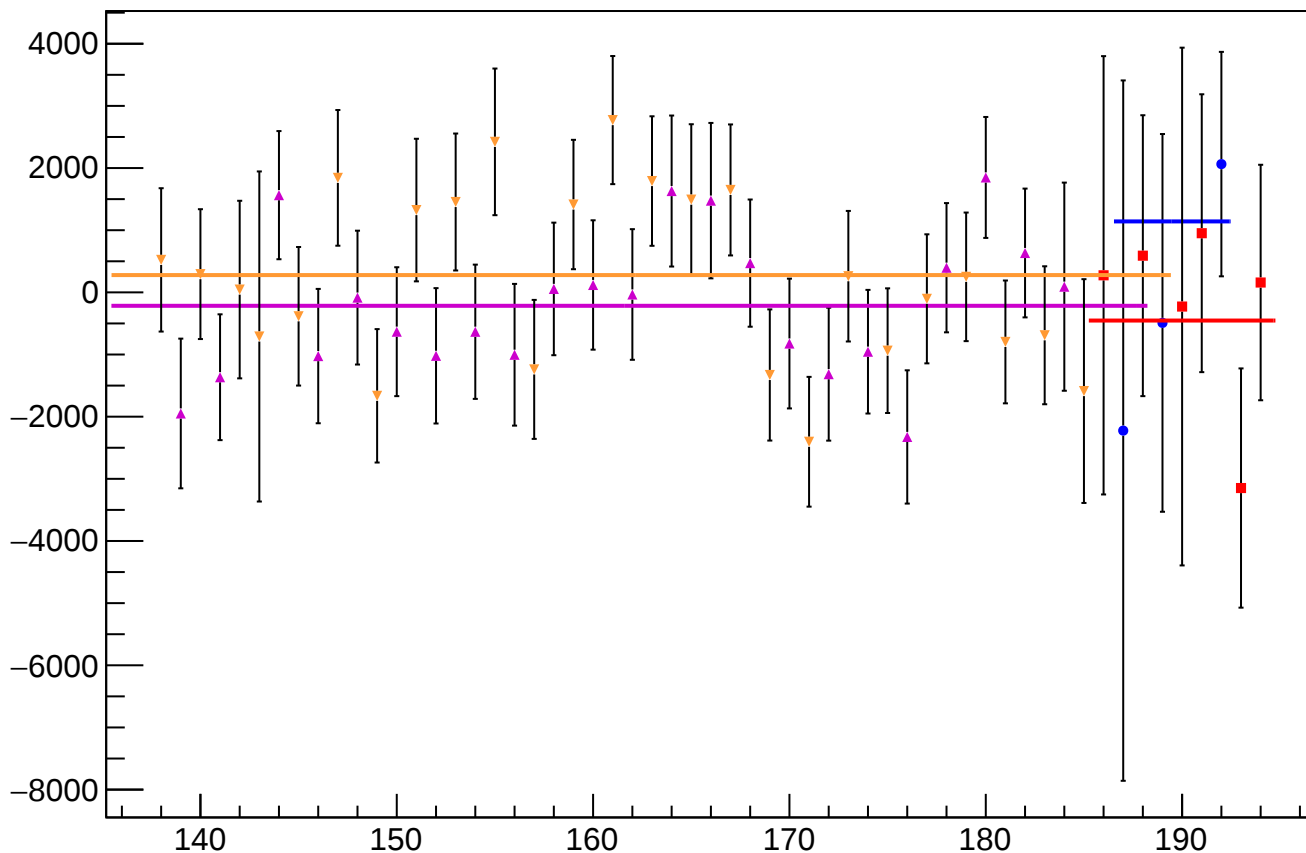
Right: 1743.940 $\pm$ 0.571 χ^2 /NDF: 354277.6/8

In: 1631.623 $\pm$ 0.268 χ^2 /NDF: 797450.3/25

Out: 1666.702 $\pm$ 0.257 χ^2 /NDF: 1271939.8/30

All: 1649.929 $\pm$ 0.186 χ^2 /NDF: 2078311.3/56

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1141.469+/-1496.468 χ^2/NDF : 0.9/2

Left Out: 278.090+/-223.581 χ^2/NDF : 38.4/24

Right Out: -453.385+/-961.049 χ^2/NDF : 2.7/5

Left In: -216.121+/-225.600 χ^2/NDF : 24.4/22

Left: 33.207+/-158.805 χ^2/NDF : 65.2/47

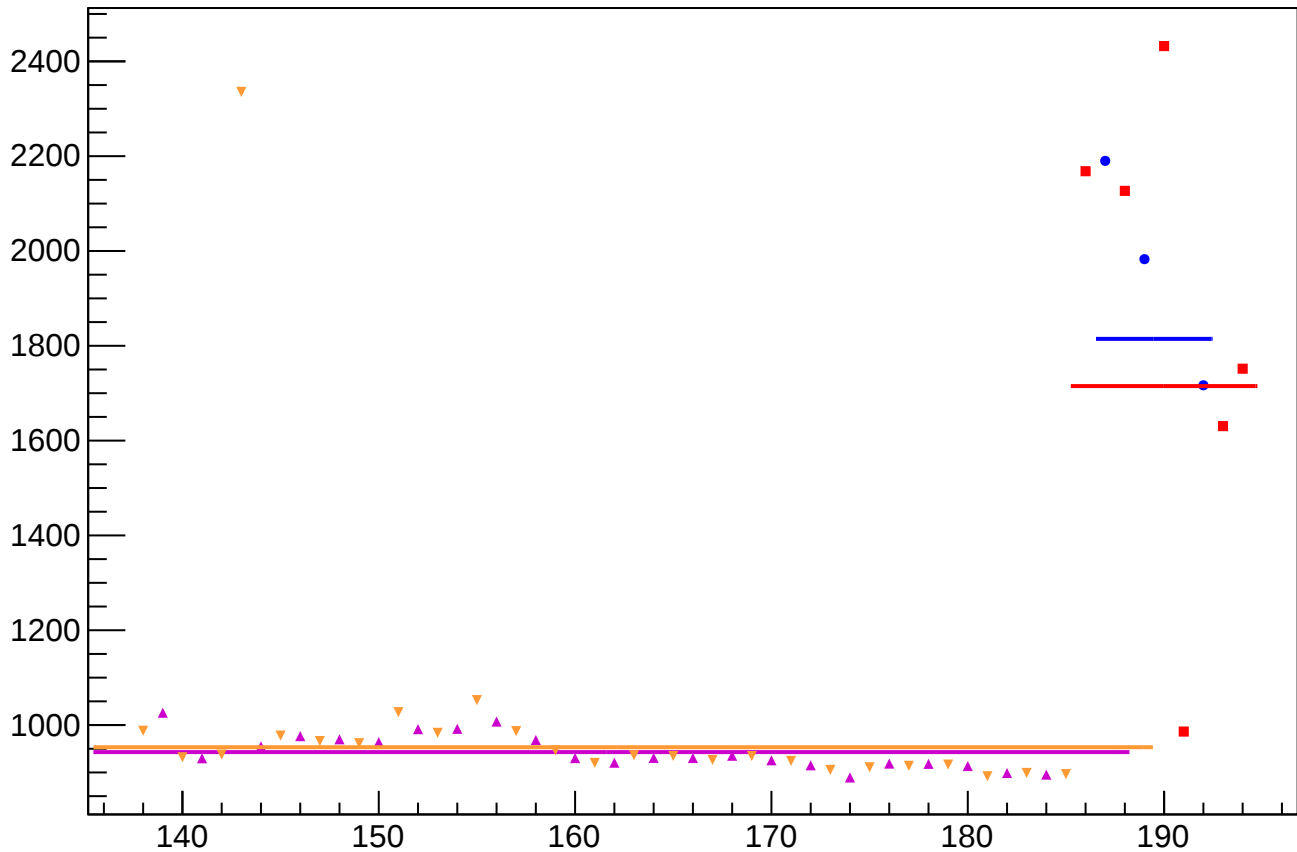
Right: 12.317+/-808.651 χ^2/NDF : 4.4/8

In: -185.952+/-223.080 χ^2/NDF : 26.1/25

Out: 240.534+/-217.765 χ^2/NDF : 41.7/30

All: 32.431+/-155.828 χ^2/NDF : 69.7/56

asym_us_agg_dd_rms vs Slug, Sign Corrected



Left: 948.120 $\pm$ 0.112 χ^2/NDF : 656777.0/47

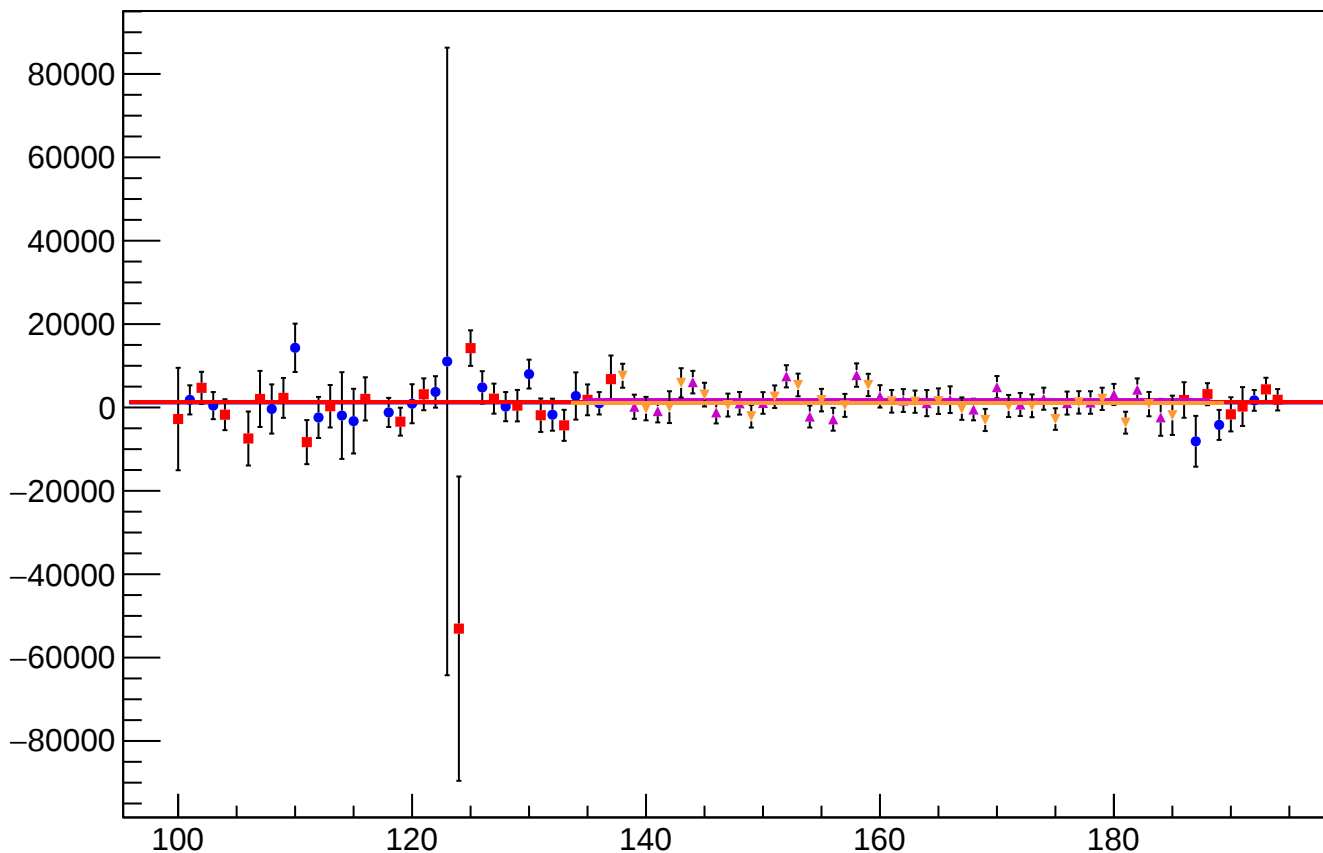
Right: 1744.104 $\pm$ 0.572 χ^2/NDF : 403115.2/8

In: 962.297 $\pm$ 0.158 χ^2/NDF : 732812.9/25

Out: 992.335 $\pm$ 0.154 χ^2/NDF : 2174386.2/30

All: 977.678 $\pm$ 0.110 χ^2/NDF : 2925766.8/56

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1201.500+/-900.113 χ^2/NDF : 17.3/19

Left Out: 1078.054+/-564.005 χ^2/NDF : 23.6/24

Right Out: 1313.173+/-807.317 χ^2/NDF : 26.7/24

Left In: 1777.100+/-575.895 χ^2/NDF : 24.1/22

Left: 1420.287+/-402.950 χ^2/NDF : 48.4/47

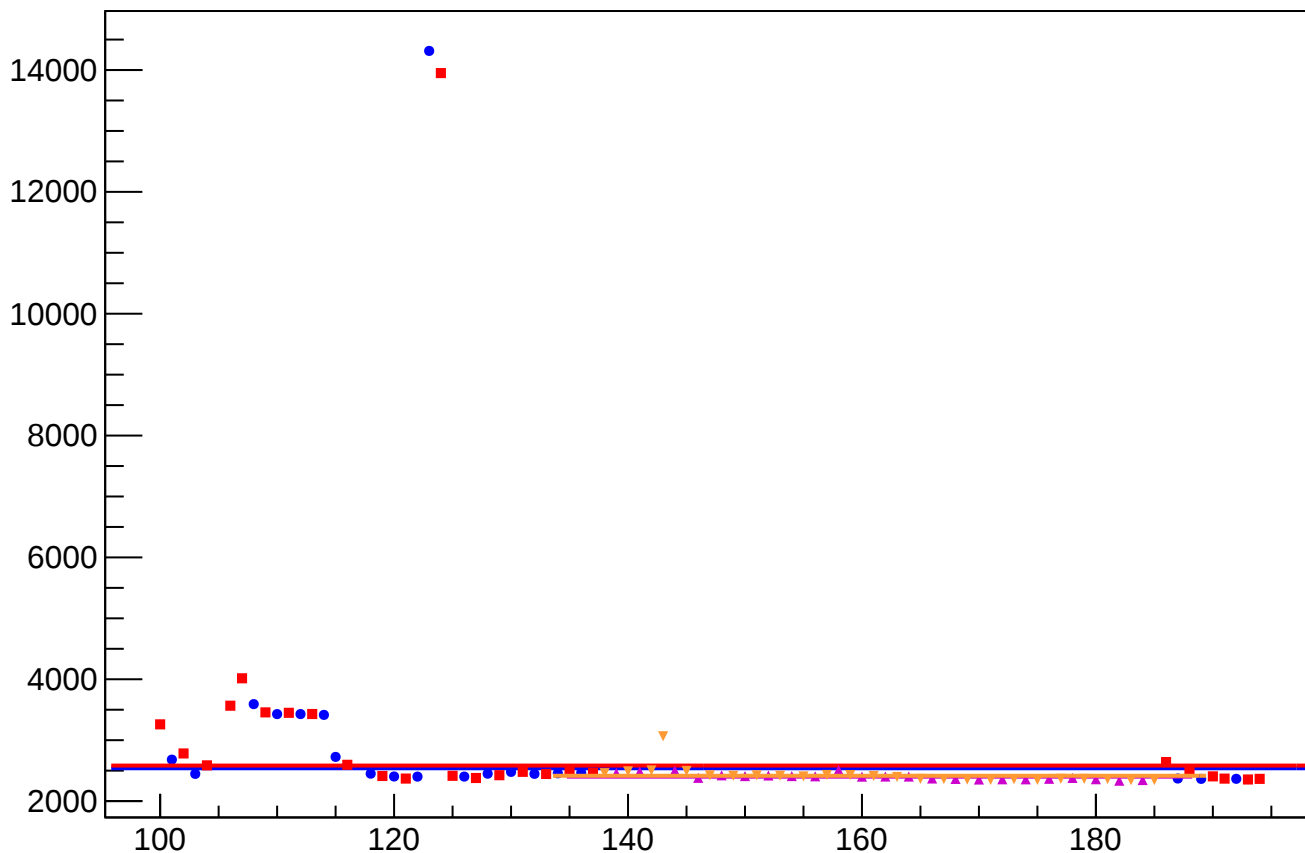
Right: 1263.388+/-600.998 χ^2/NDF : 44.0/44

In: 1609.916+/-485.103 χ^2/NDF : 41.6/42

Out: 1155.170+/-462.351 χ^2/NDF : 50.4/49

All: 1371.629+/-334.686 χ^2/NDF : 92.5/92

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2539.053+/-0.636 χ^2/NDF : 274067.5/19

Left Out: 2416.019+/-0.399 χ^2/NDF : 82636.1/24

Right Out: 2583.319+/-0.571 χ^2/NDF : 586437.7/24

Left In: 2401.422+/-0.407 χ^2/NDF : 13747.6/22

Left: 2408.873+/-0.285 χ^2/NDF : 97039.6/47

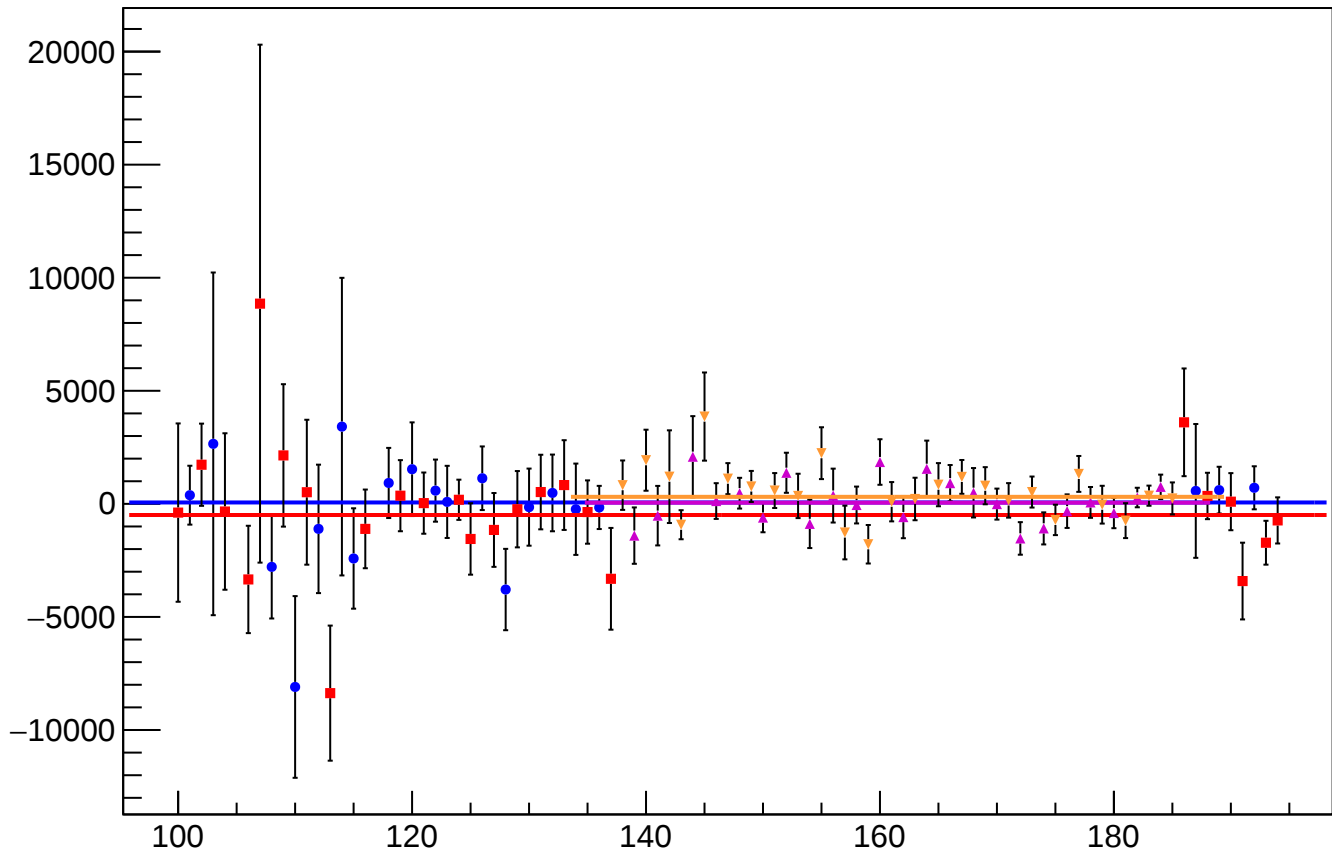
Right: 2563.584+/-0.425 χ^2/NDF : 863185.8/44

In: 2441.397+/-0.343 χ^2/NDF : 320993.1/42

Out: 2470.891+/-0.327 χ^2/NDF : 726791.2/49

All: 2456.852+/-0.237 χ^2/NDF : 1051658.4/92

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 61.627 $\pm$ 358.344 χ^2/NDF : 14.6/19

Left Out: 310.873 $\pm$ 160.650 χ^2/NDF : 29.7/24

Right Out: -492.815 $\pm$ 315.057 χ^2/NDF : 24.0/24

Left In: 51.454 $\pm$ 161.744 χ^2/NDF : 23.8/22

Left: 182.044 $\pm$ 113.982 χ^2/NDF : 54.9/47

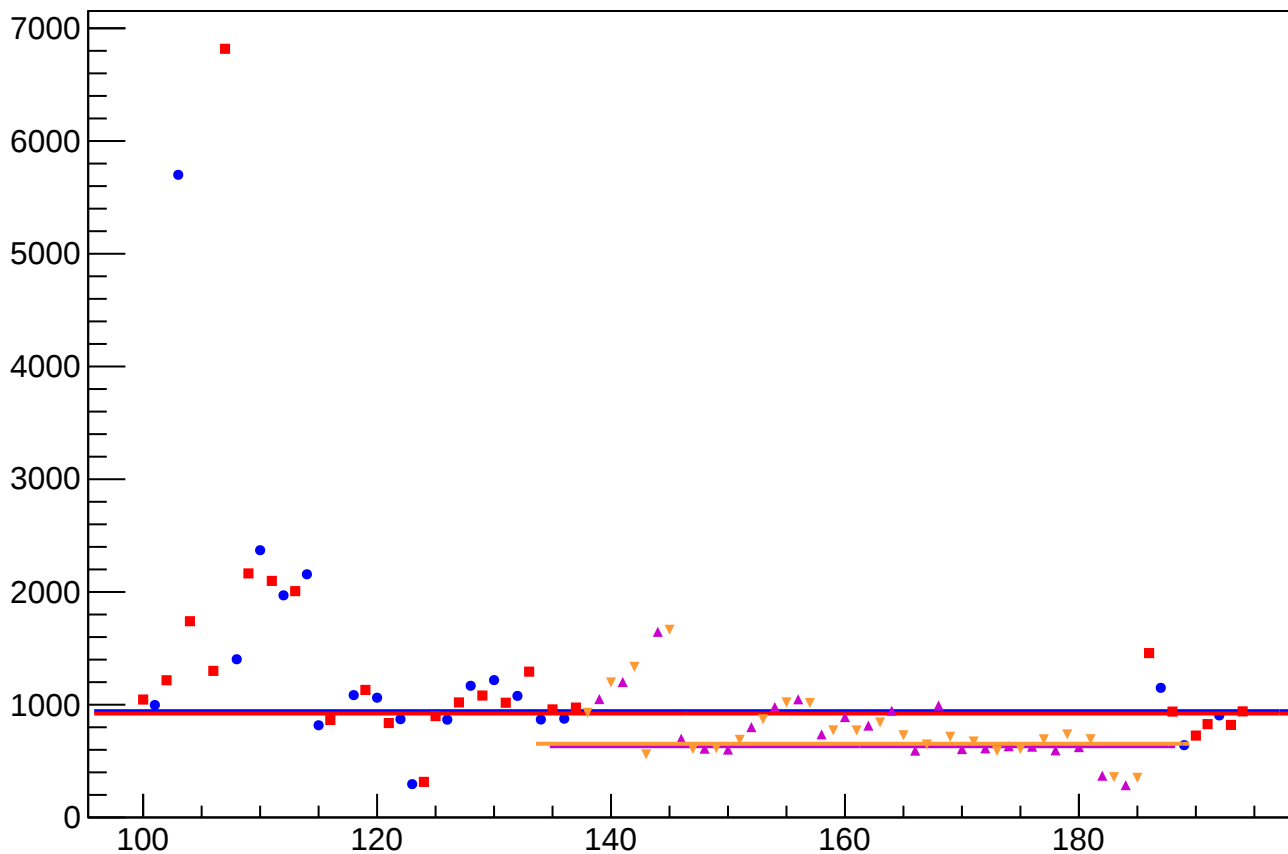
Right: -251.087 $\pm$ 236.611 χ^2/NDF : 39.9/44

In: 53.176 $\pm$ 147.423 χ^2/NDF : 38.4/42

Out: 145.029 $\pm$ 143.118 χ^2/NDF : 58.9/49

All: 100.463 $\pm$ 102.688 χ^2/NDF : 97.5/92

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 942.530 $\pm$ 0.253 χ^2 /NDF: 2118247.5/19

Left Out: 653.803 $\pm$ 0.114 χ^2 /NDF: 3254694.4/24

Right Out: 922.031 $\pm$ 0.223 χ^2 /NDF: 2850949.3/24

Left In: 632.053 $\pm$ 0.114 χ^2 /NDF: 3942853.4/22

Left: 643.002 $\pm$ 0.081 χ^2 /NDF: 7215752.9/47

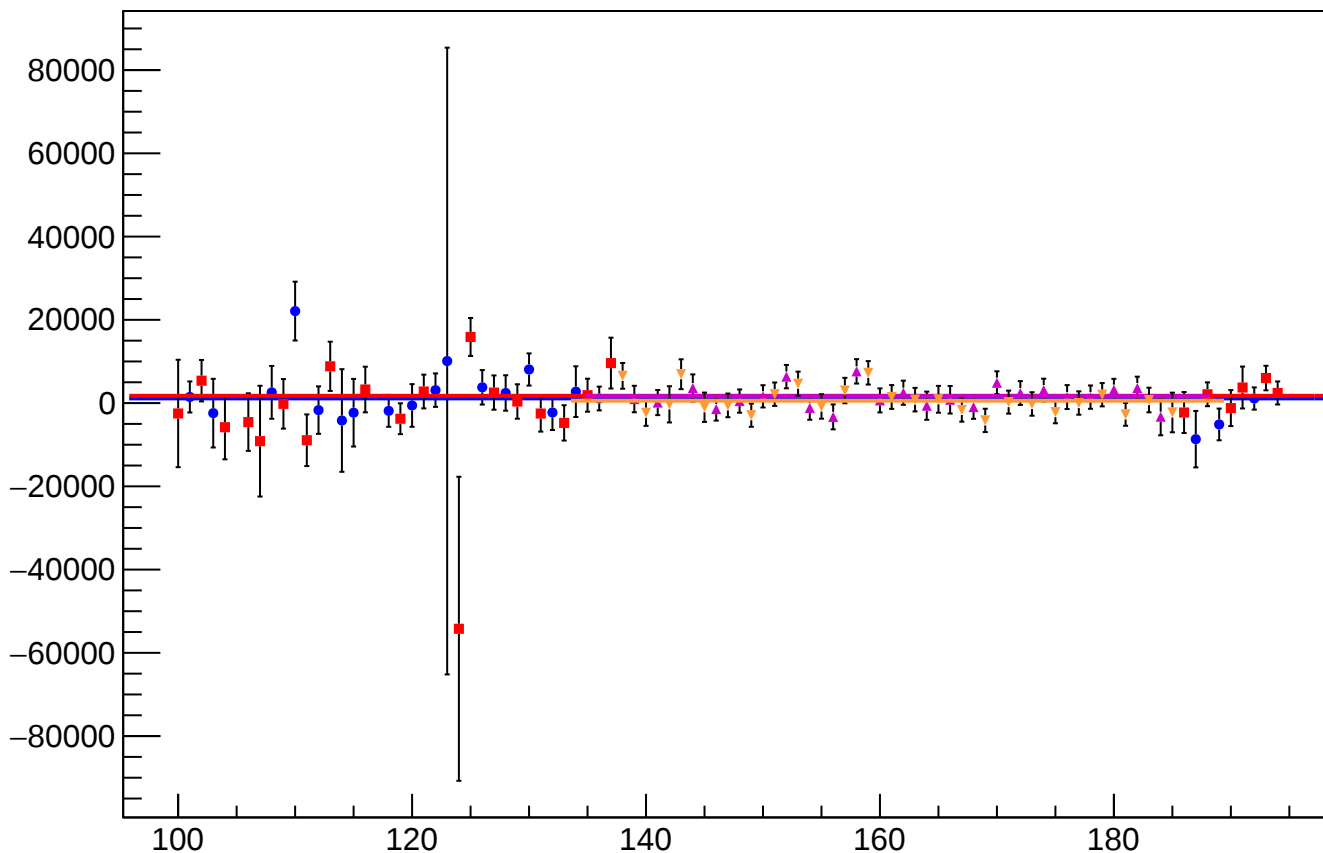
Right: 930.968 $\pm$ 0.167 χ^2 /NDF: 4972888.3/44

In: 684.601 $\pm$ 0.104 χ^2 /NDF: 7308373.5/42

Out: 709.152 $\pm$ 0.101 χ^2 /NDF: 7256145.1/49

All: 697.240 $\pm$ 0.073 χ^2 /NDF: 14593074.5/92

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1131.266+/-1015.692 χ^2/NDF : 19.9/19

Left Out: 580.879+/-597.173 χ^2/NDF : 25.3/24

Right Out: 1749.747+/-909.994 χ^2/NDF : 30.5/24

Left In: 1679.572+/-610.111 χ^2/NDF : 18.2/22

Left: 1118.453+/-426.766 χ^2/NDF : 45.2/47

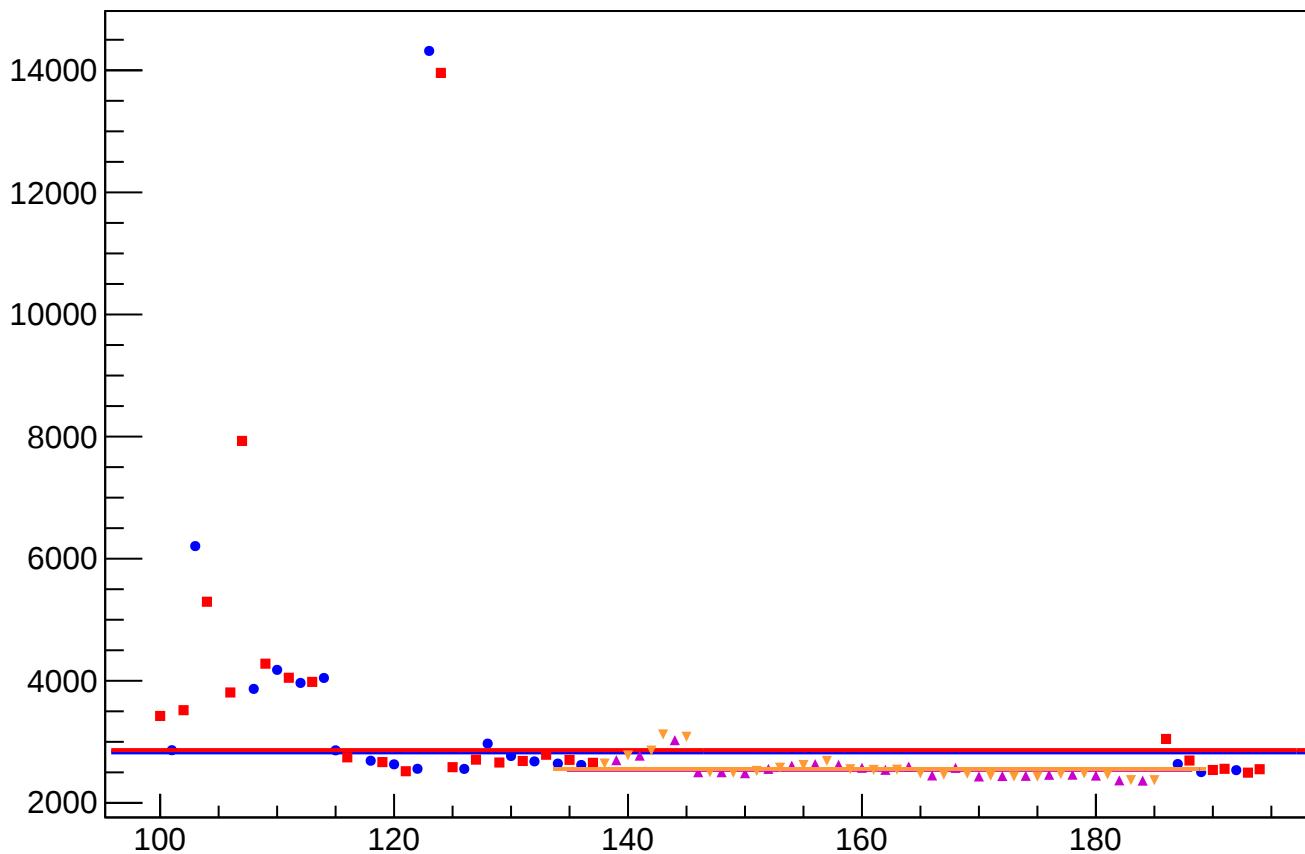
Right: 1474.352+/-677.761 χ^2/NDF : 50.6/44

In: 1534.189+/-523.007 χ^2/NDF : 38.3/42

Out: 932.728+/-499.268 χ^2/NDF : 57.0/49

All: 1219.499+/-361.137 χ^2/NDF : 95.9/92

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2827.172+/-0.718 χ^2/NDF : 688490.7/19

Left Out: 2555.279+/-0.422 χ^2/NDF :154743.6/24

Right Out: 2864.977+/-0.643 χ^2/NDF : 1138004.6/24

Left In: 2540.988+/-0.431 χ^2/NDF :94756.7/22

Left: 2548.287+/-0.302 χ^2/NDF : 250060.8/47

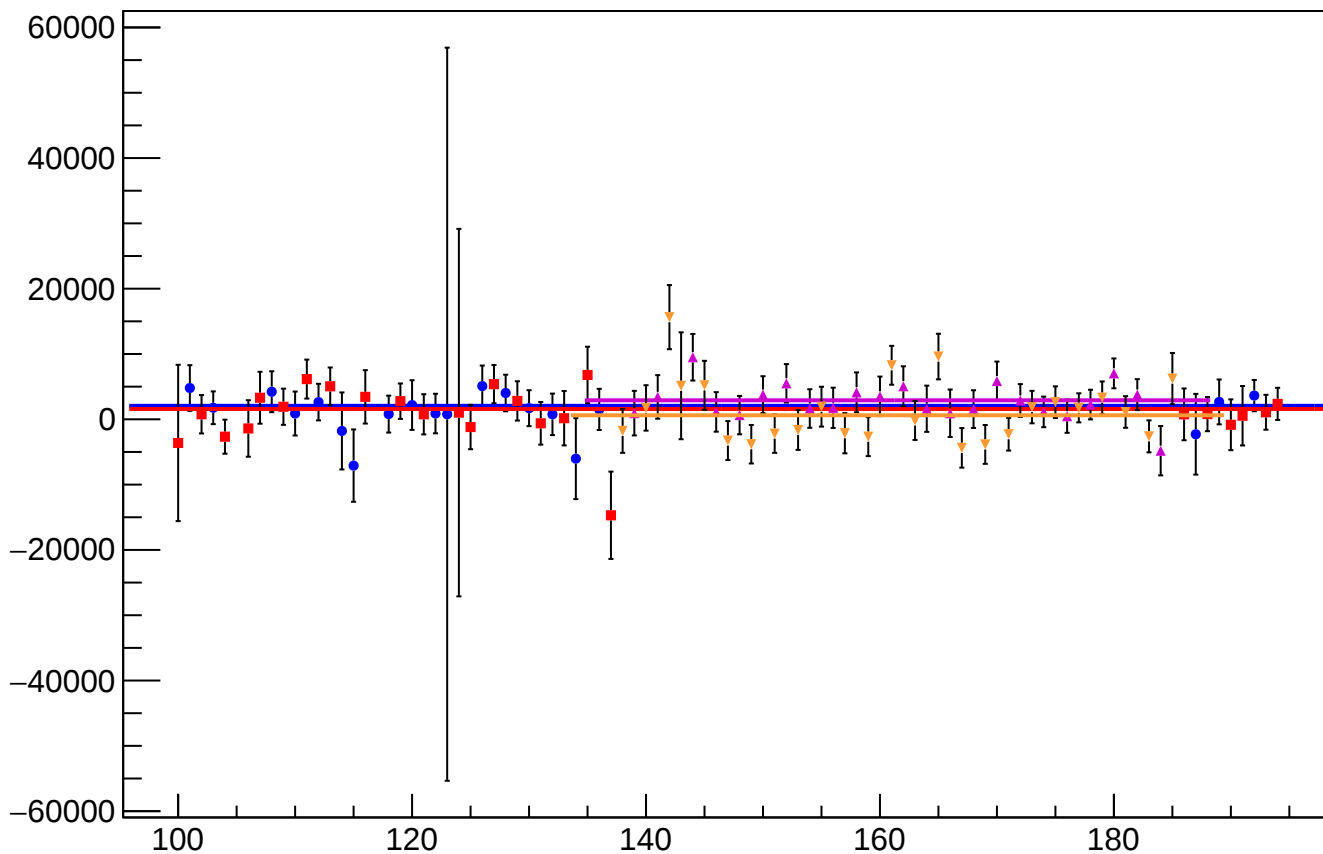
Right: 2848.143+/-0.479 χ^2/NDF : 1828032.4/44

In: 2616.869+/-0.370 χ^2/NDF :899927.0/42

Out: 2648.504+/-0.353 χ^2/NDF :1454667.2/49

All: 2633.421+/-0.255 χ^2/NDF : 2358422.5/92

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2062.917 $\pm$ 746.261 χ^2 /NDF: 9.1/19

Left Out: 614.867 $\pm$ 591.148 χ^2 /NDF:45.2/24

Right Out: 1582.639 $\pm$ 670.733 χ^2 /NDF: 19.0/24

Left In: 2909.108 $\pm$ 599.673 χ^2 /NDF:17.4/22

Left: 1745.562 $\pm$ 420.986 χ^2 /NDF: 70.0/47

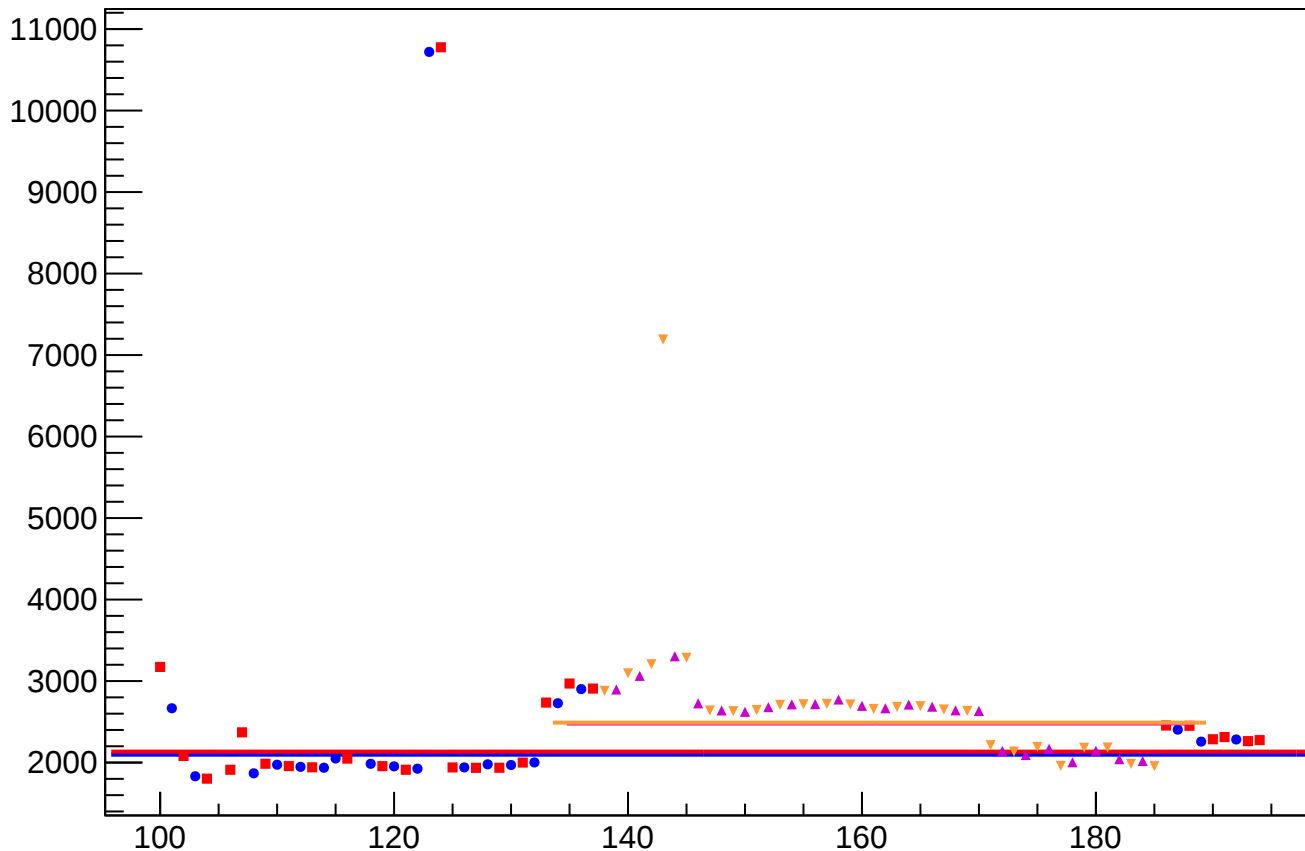
Right: 1797.251 $\pm$ 498.851 χ^2 /NDF: 28.3/44

In: 2577.091 $\pm$ 467.451 χ^2 /NDF:27.2/42

Out: 1037.958 $\pm$ 443.486 χ^2 /NDF:65.4/49

All: 1767.062 $\pm$ 321.731 χ^2 /NDF: 98.3/92

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2096.517 $\pm$ 0.528 χ^2/NDF : 342872.0/19

Left Out: 2489.577 $\pm$ 0.418 χ^2/NDF :1364203.3/24

Right Out: 2134.322 $\pm$ 0.474 χ^2/NDF : 521674.1/24

Left In: 2479.348 $\pm$ 0.424 χ^2/NDF :668398.2/22

Left: 2484.536 $\pm$ 0.298 χ^2/NDF : 2032896.6/47

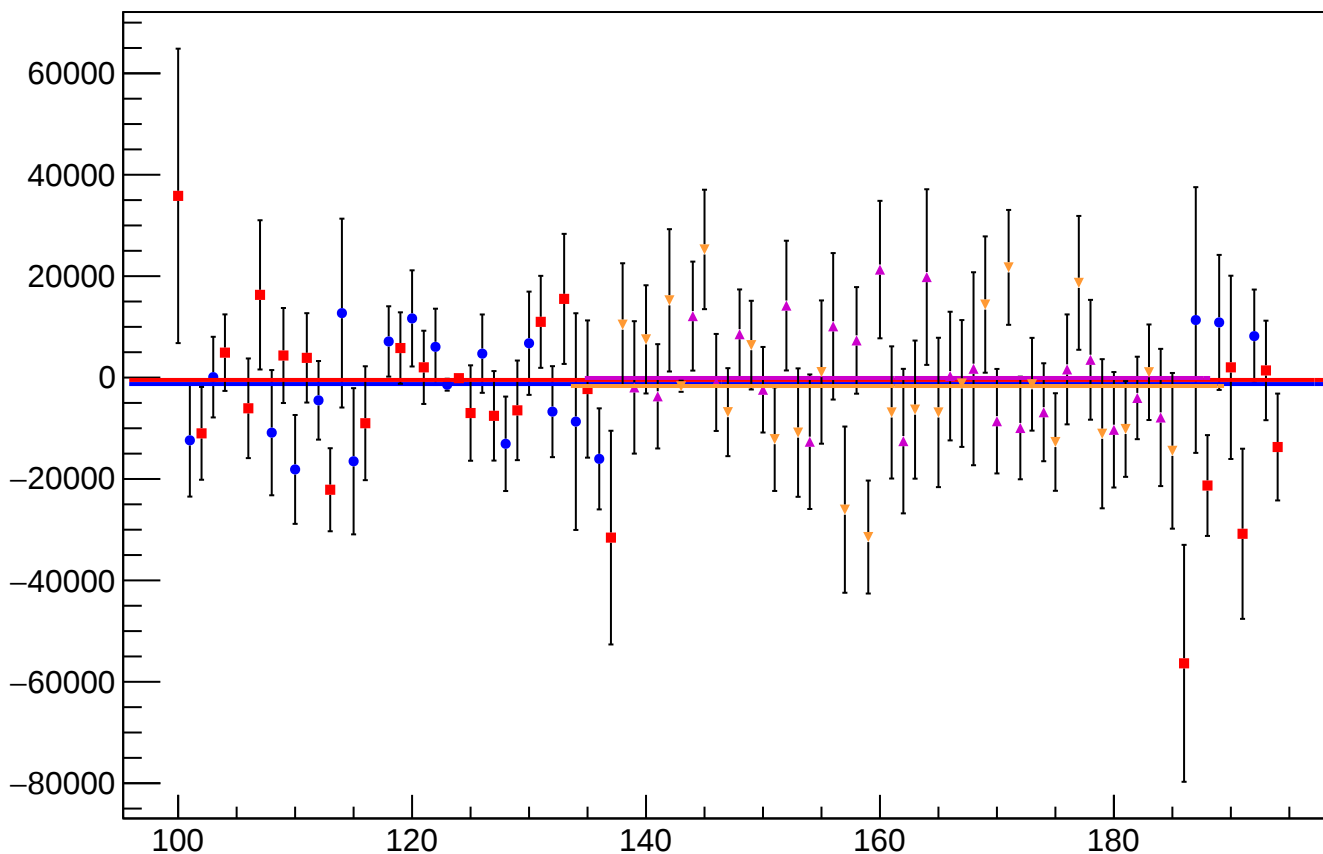
Right: 2117.429 $\pm$ 0.353 χ^2/NDF : 867385.3/44

In: 2329.139 $\pm$ 0.331 χ^2/NDF :1331090.8/42

Out: 2334.265 $\pm$ 0.314 χ^2/NDF :2201654.2/49

All: 2331.837 $\pm$ 0.227 χ^2/NDF : 3532871.6/92

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1278.620+/-1043.712 χ^2/NDF : 17.9/19

Left Out: -1665.417+/-993.060 χ^2/NDF : 32.4/24

Right Out: -467.933+/-689.044 χ^2/NDF : 36.1/24

Left In: -80.274+/-2331.531 χ^2/NDF : 13.8/22

Left: -1422.008+/-913.639 χ^2/NDF : 46.6/47

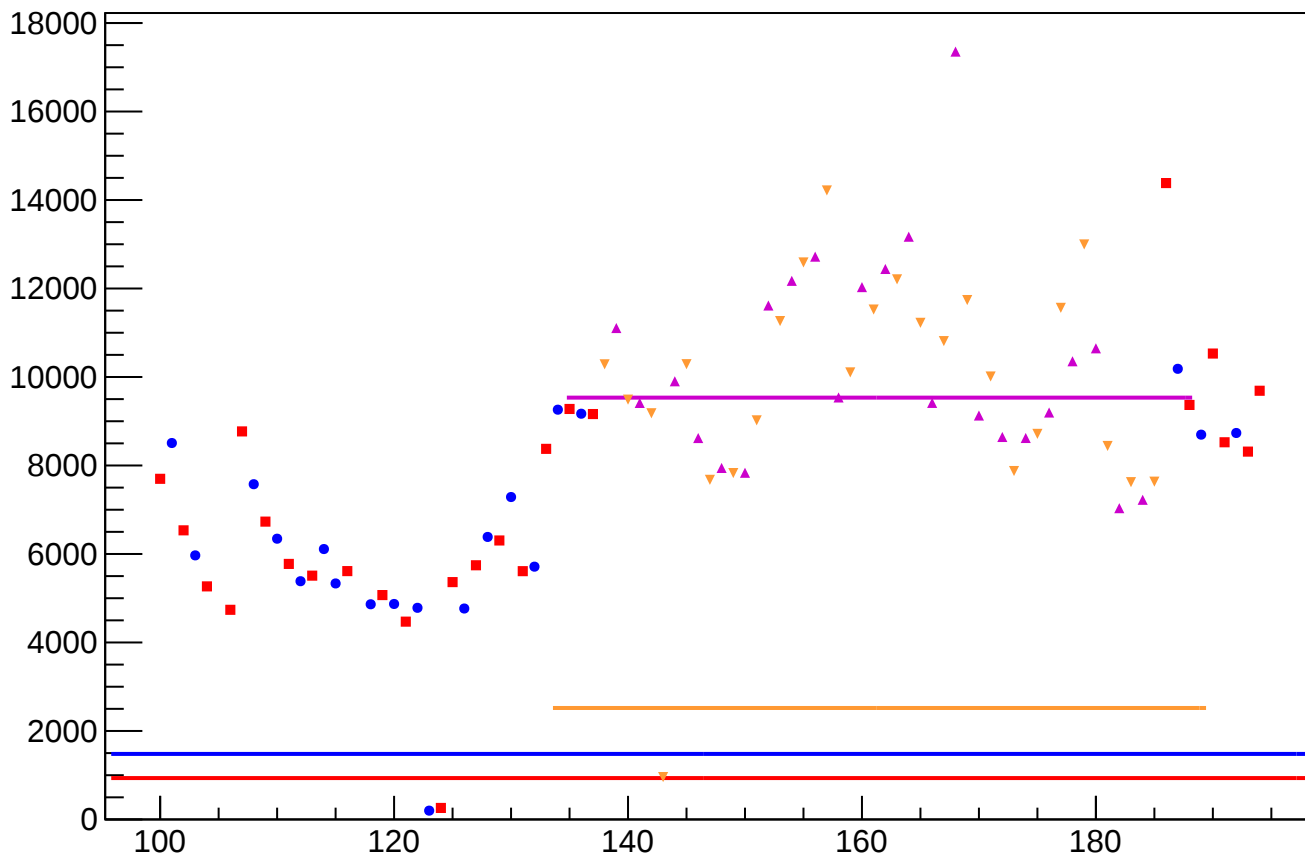
Right: -714.014+/-575.034 χ^2/NDF : 54.4/44

In: -1078.570+/-952.619 χ^2/NDF : 31.9/42

Out: -857.093+/-566.115 χ^2/NDF : 69.5/49

All: -914.896+/-486.665 χ^2/NDF : 101.4/92

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1481.156+/-0.738

χ^2/NDF : 12127294.8/19

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right Out: 935.367+/-0.487

χ^2/NDF : 17091795.8/24

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Right: 1101.039+/-0.407

χ^2/NDF : 29599988.8/44

In: 2825.412+/-0.674

χ^2/NDF : 33317517.3/42

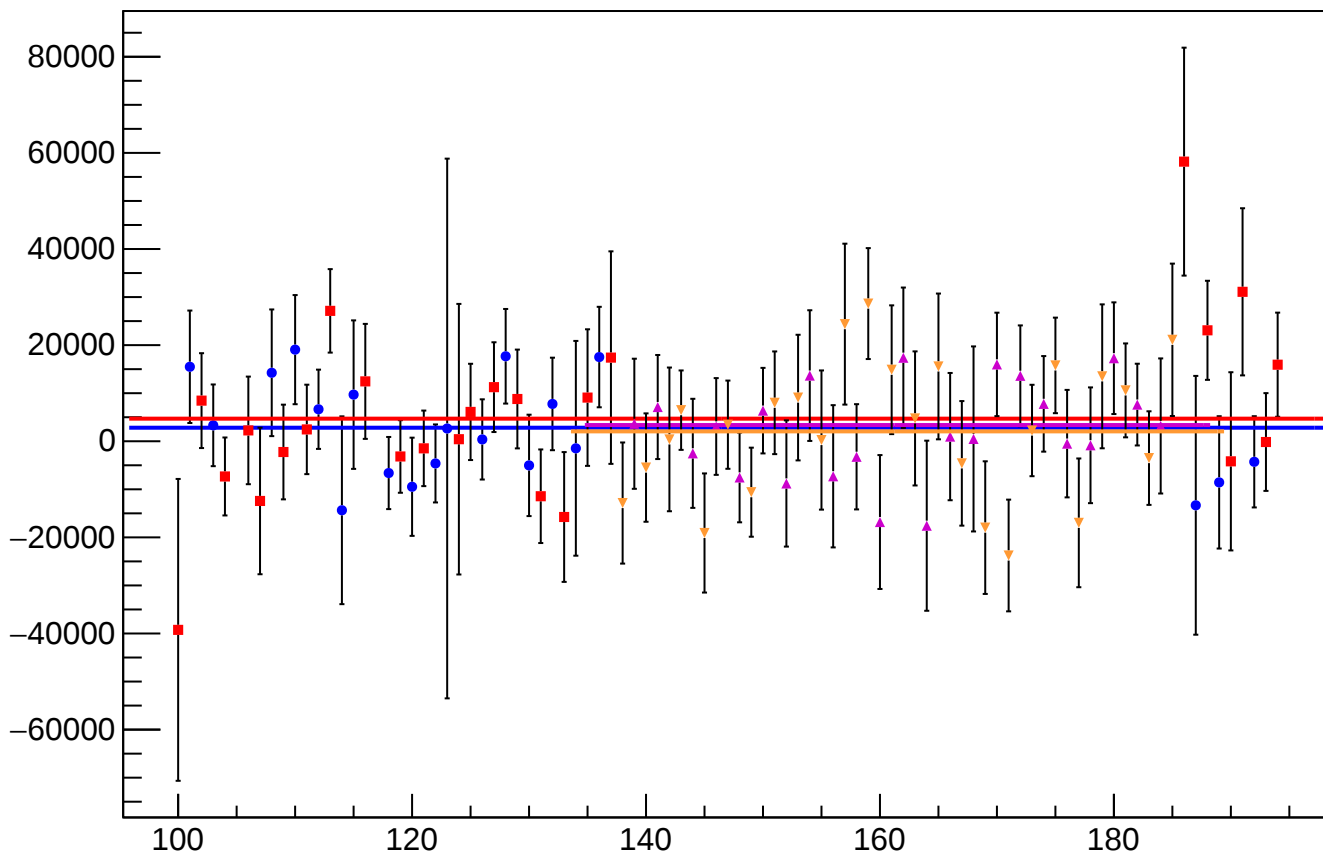
Out: 1450.136+/-0.400

χ^2/NDF : 44168704.6/49

All: 1809.067+/-0.344

χ^2/NDF : 80566729.1/95

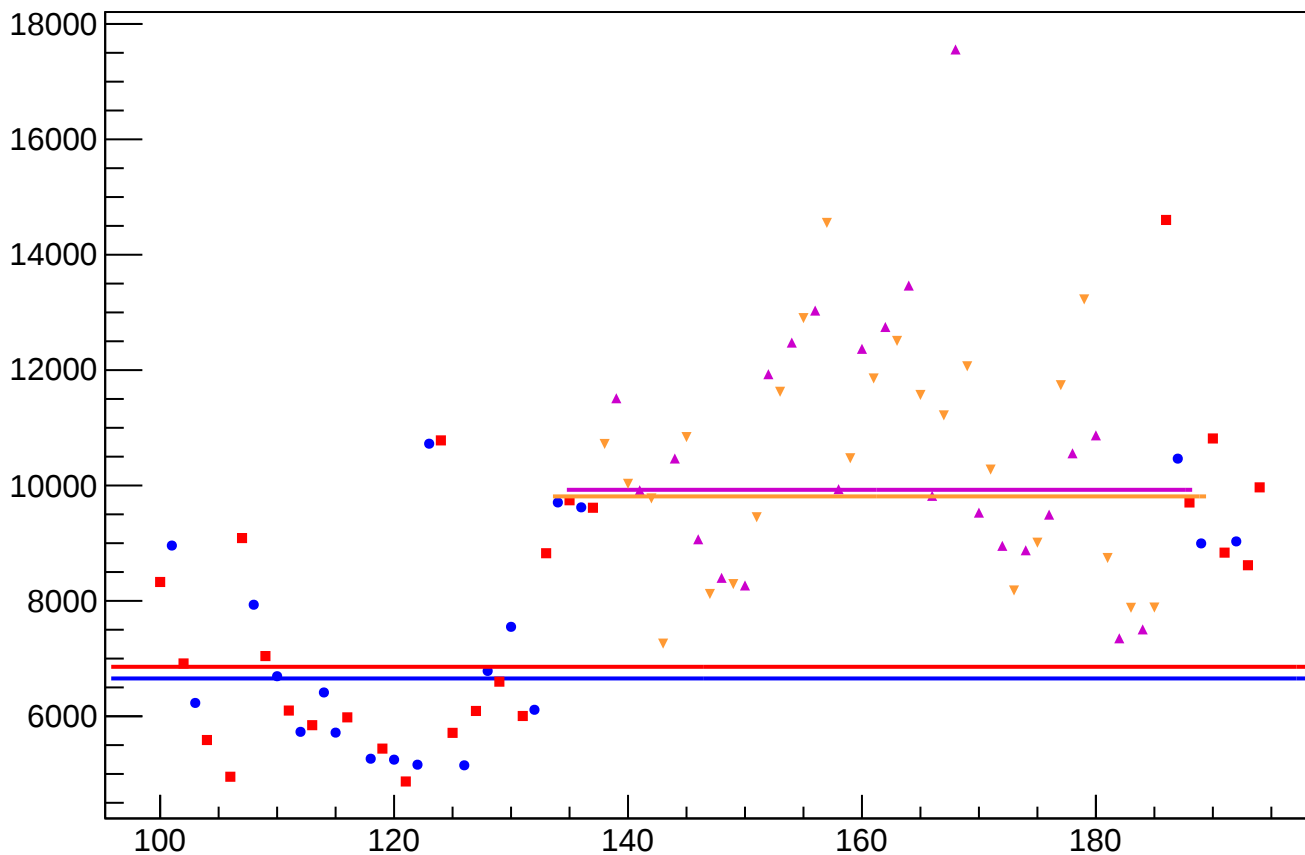
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2816.570+/-2408.549 χ^2/NDF : 15.8/19
Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24
Right Out: 4702.665+/-2206.633 χ^2/NDF : 33.2/24
Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
Right: 3841.977+/-1627.034 χ^2/NDF : 49.4/44
In: 3092.562+/-1708.272 χ^2/NDF :29.0/42
Out: 3453.205+/-1603.298 χ^2/NDF :64.6/49
All: 3284.304+/-1169.053 χ^2/NDF : 93.6/92

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6655.374+/-1.703 χ^2/NDF : 826920.8/19

Left Out: 9811.053+/-1.650 χ^2/NDF : 1213831.0/24

Right Out: 6857.300+/-1.560 χ^2/NDF : 1363667.8/24

Left In: 9925.337+/-1.713 χ^2/NDF : 1211554.7/22

Left: 9866.039+/-1.189 χ^2/NDF : 2427693.8/47

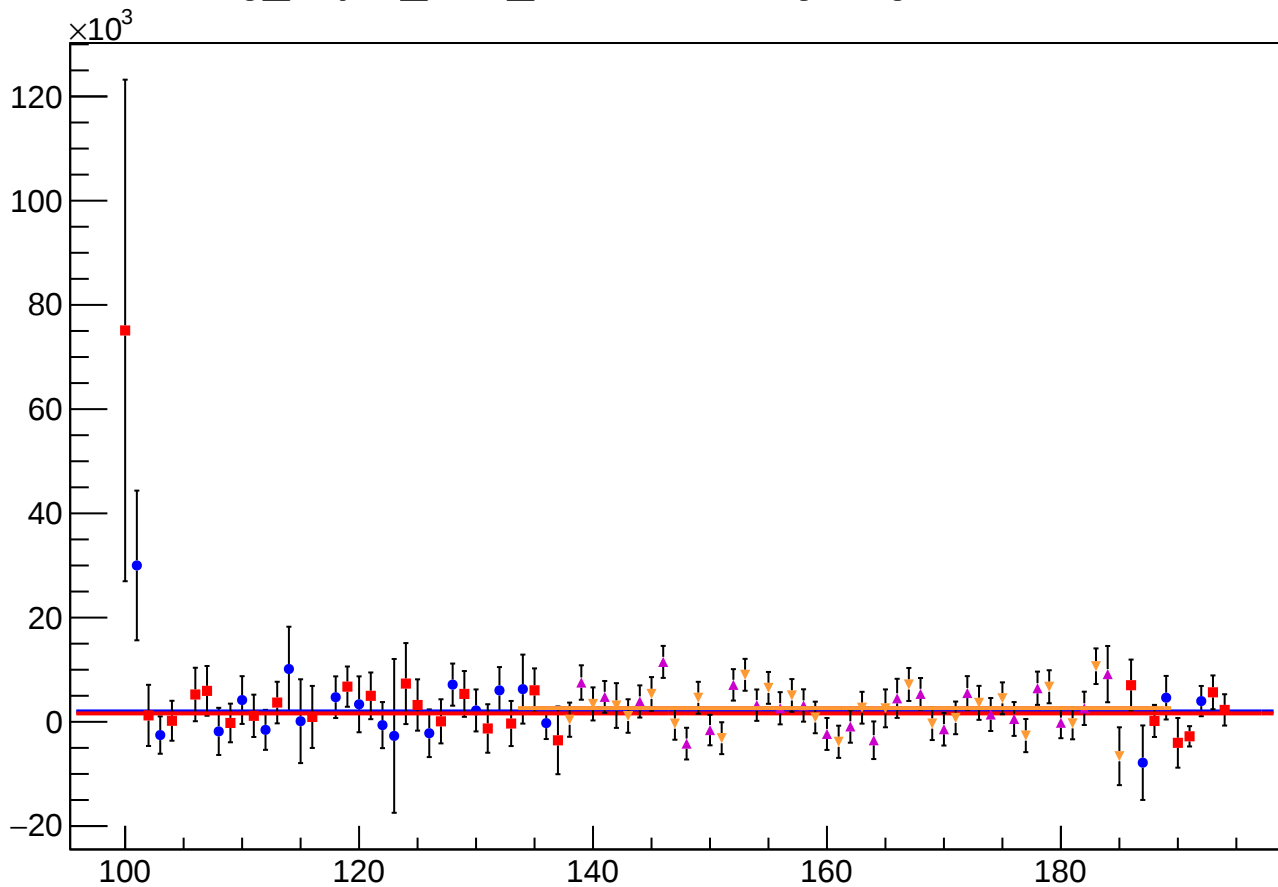
Right: 6765.158+/-1.150 χ^2/NDF : 2198231.4/44

In: 8280.405+/-1.208 χ^2/NDF : 3870482.3/42

Out: 8251.650+/-1.134 χ^2/NDF : 4269298.7/49

All: 8265.117+/-0.827 χ^2/NDF : 8140082.3/92

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1994.370+/-1011.768 χ^2/NDF : 16.2/19

Left Out: 2635.833+/-646.121 χ^2/NDF : 35.1/24

Right Out: 1617.114+/-809.397 χ^2/NDF : 20.0/24

Left In: 2638.607+/-664.569 χ^2/NDF : 35.2/22

Left: 2637.181+/-463.261 χ^2/NDF : 70.3/47

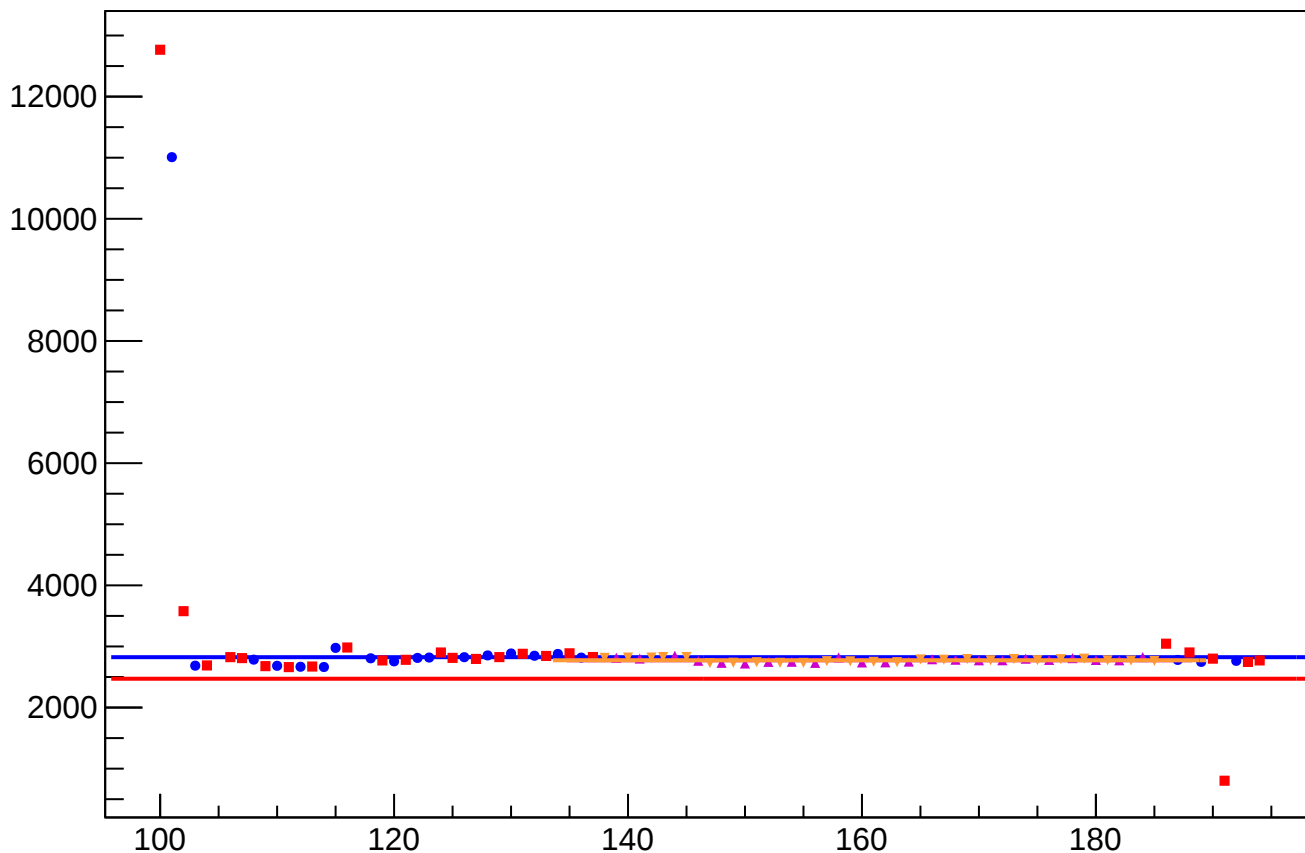
Right: 1764.332+/-632.038 χ^2/NDF : 36.4/44

In: 2444.433+/-555.462 χ^2/NDF : 51.7/42

Out: 2239.330+/-504.960 χ^2/NDF : 56.1/49

All: 2332.136+/-373.642 χ^2/NDF : 107.9/92

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2824.434+/-0.715 χ^2/NDF : 662139.4/19

Left Out: 2773.713+/-0.457 χ^2/NDF : 4616.5/24

Right Out: 2471.709+/-0.572 χ^2/NDF : 1915281.1/24

Left In: 2774.036+/-0.470 χ^2/NDF : 4985.3/22

Left: 2773.870+/-0.328 χ^2/NDF : 9602.0/47

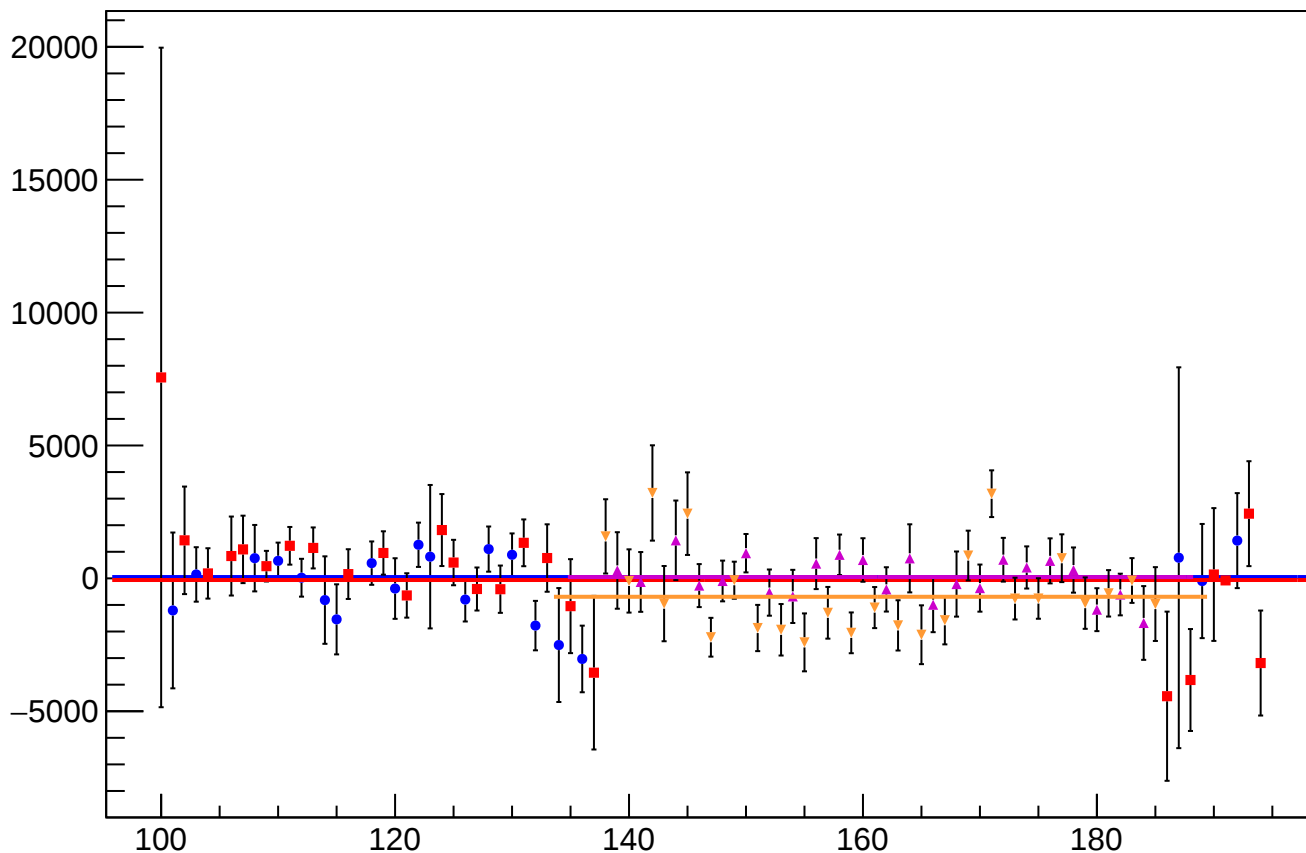
Right: 2609.354+/-0.447 χ^2/NDF : 2725638.9/44

In: 2789.226+/-0.393 χ^2/NDF : 670591.4/42

Out: 2656.168+/-0.357 χ^2/NDF : 2089964.5/49

All: 2716.375+/-0.264 χ^2/NDF : 2823390.4/92

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 49.871+/-238.634 χ^2/NDF : 21.4/19

Left Out: -692.808+/-187.297 χ^2/NDF :56.0/24

Right Out: -62.081+/-37.911 χ^2/NDF : 28.4/24

Left In: 49.244+/-189.190 χ^2/NDF :13.6/22

Left: -325.512+/-133.103 χ^2/NDF : 77.4/47

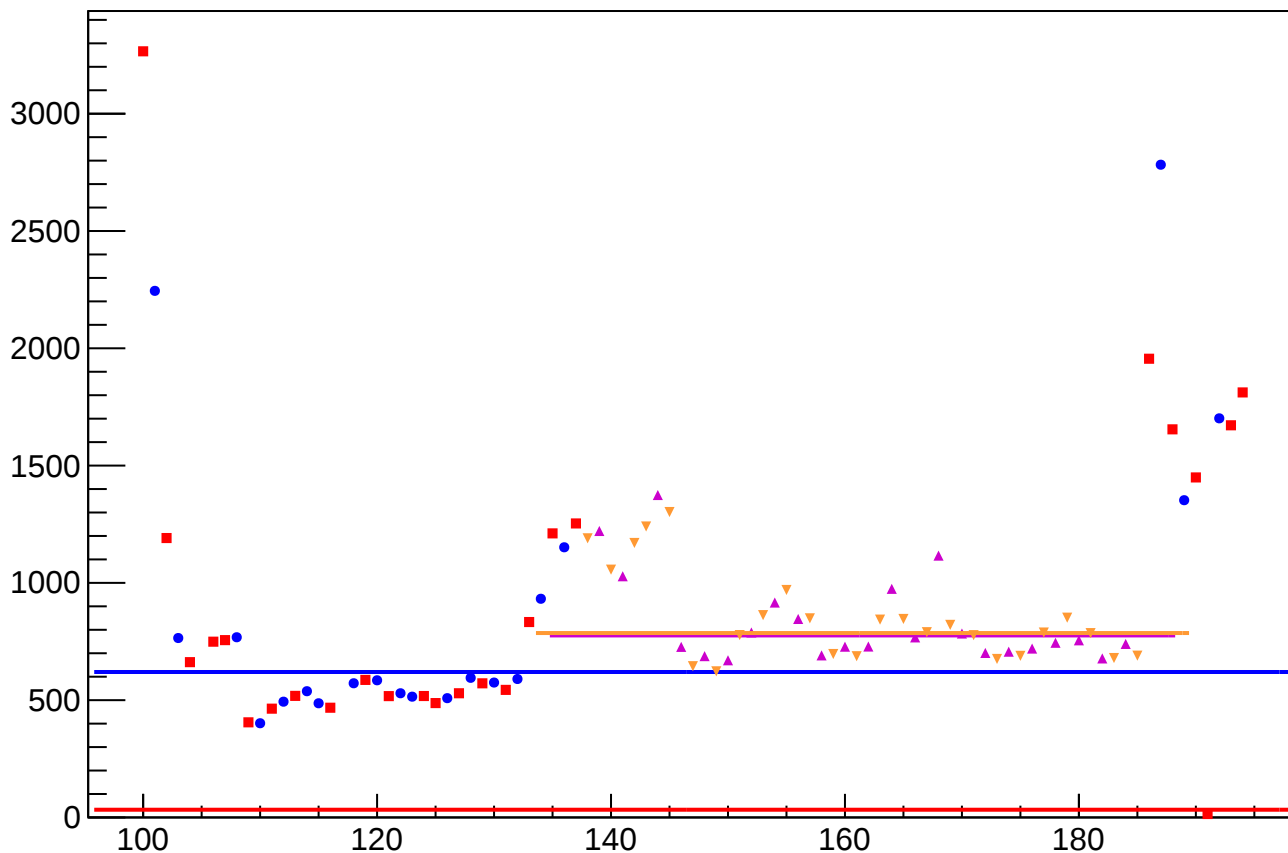
Right: -59.325+/-37.442 χ^2/NDF : 50.0/44

In: 49.486+/-148.251 χ^2/NDF :35.0/42

Out: -86.905+/-37.158 χ^2/NDF :95.3/49

All: -78.843+/-36.043 χ^2/NDF : 131.1/92

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 620.084+/-0.169 χ^2/NDF : 2604806.0/19

Left Out: 786.173+/-0.132 χ^2/NDF :1249536.1/24

Right Out: 32.955+/-0.027 χ^2/NDF : 18455639.5/24

Left In: 775.930+/-0.134 χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094 χ^2/NDF : 2309263.4/47

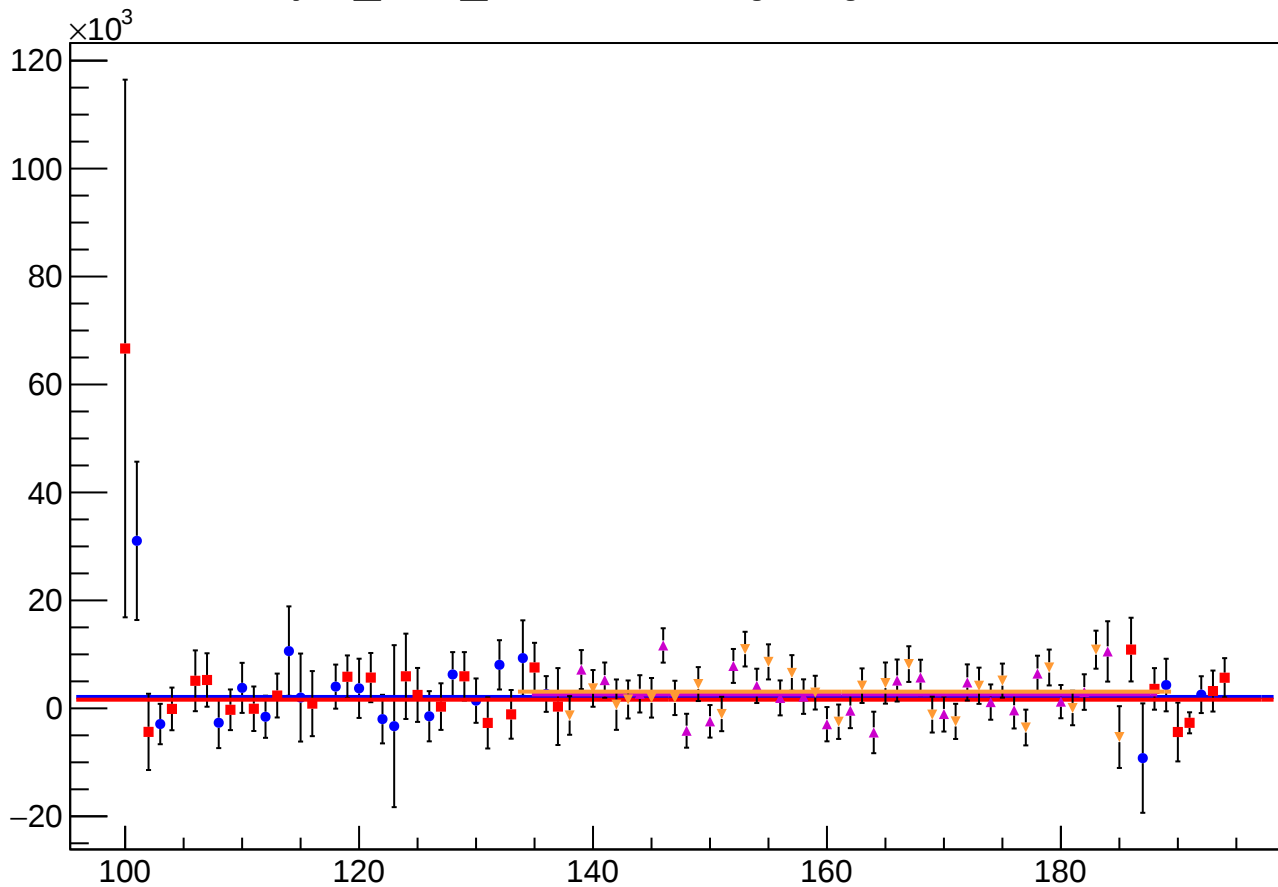
Right: 47.408+/-0.026 χ^2/NDF : 32869301.7/44

In: 715.781+/-0.105 χ^2/NDF :4185370.0/42

Out: 62.600+/-0.026 χ^2/NDF :50777263.2/49

All: 101.208+/-0.025 χ^2/NDF : 91491761.2/92

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2110.023+/-1070.990 χ^2/NDF : 15.9/19

Left Out: 3094.826+/-678.510 χ^2/NDF : 38.7/24

Right Out: 1603.948+/-862.070 χ^2/NDF : 20.5/24

Left In: 2573.184+/-695.795 χ^2/NDF : 35.7/22

Left: 2840.565+/-485.775 χ^2/NDF : 74.6/47

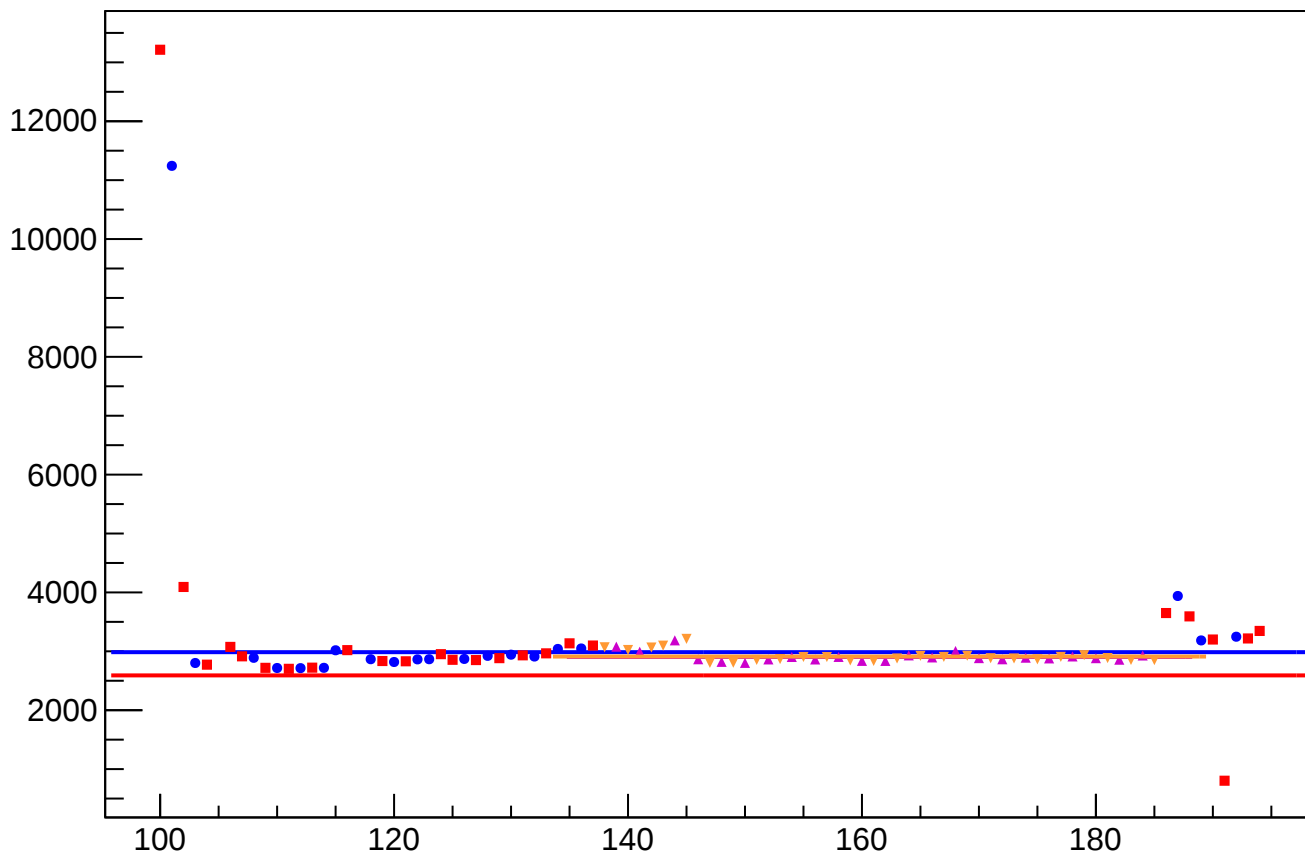
Right: 1802.922+/-671.546 χ^2/NDF : 36.5/44

In: 2435.717+/-583.471 χ^2/NDF : 51.8/42

Out: 2524.538+/-533.173 χ^2/NDF : 61.0/49

All: 2484.120+/-393.593 χ^2/NDF : 112.7/92

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2985.429+/-0.757 χ^2/NDF : 699448.1/19

Left Out: 2911.226+/-0.480 χ^2/NDF : 36644.3/24

Right Out: 2591.026+/-0.610 χ^2/NDF : 2376447.7/24

Left In: 2903.411+/-0.492 χ^2/NDF : 28838.5/22

Left: 2907.416+/-0.343 χ^2/NDF : 65612.1/47

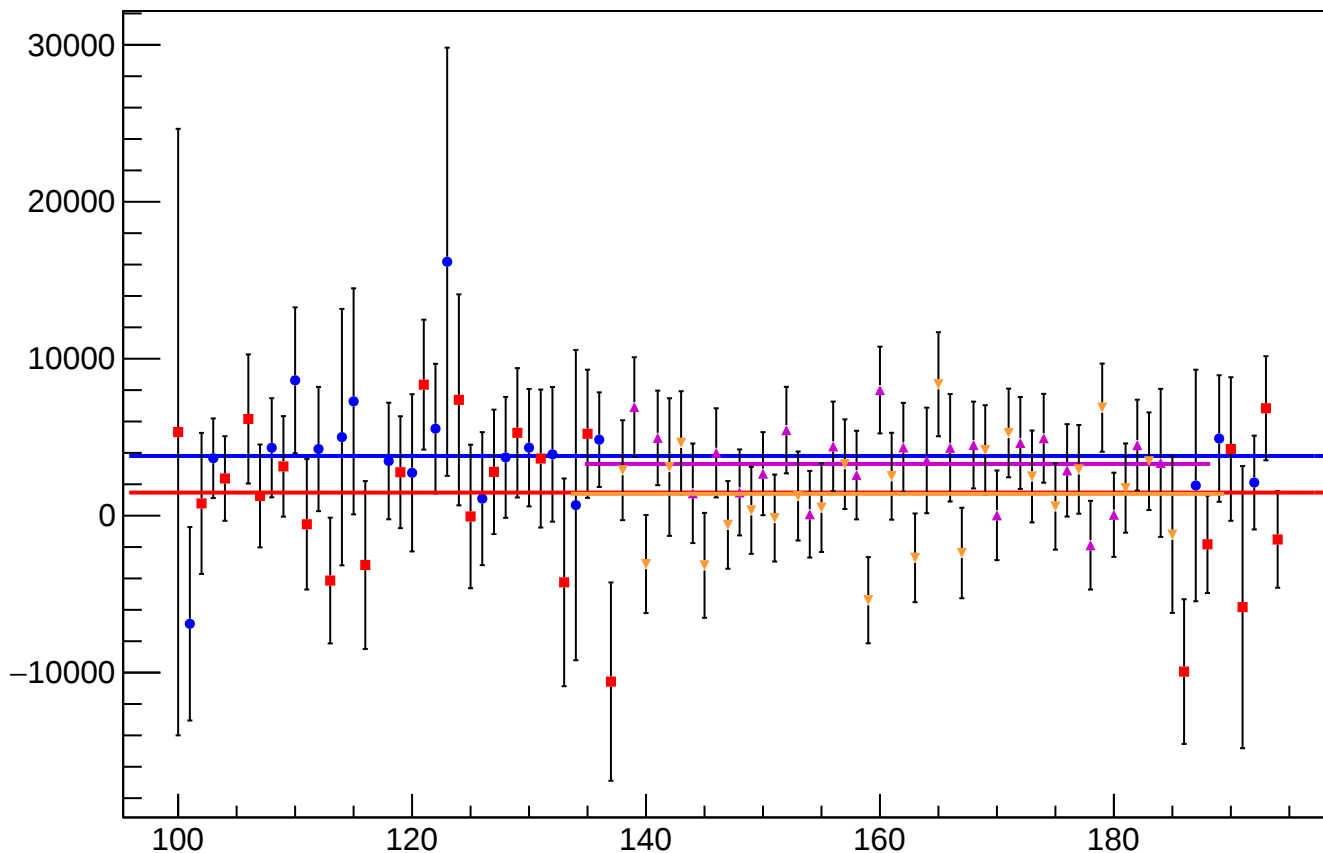
Right: 2746.093+/-0.475 χ^2/NDF : 3240486.5/44

In: 2927.754+/-0.413 χ^2/NDF : 736534.7/42

Out: 2788.744+/-0.377 χ^2/NDF : 2583469.2/49

All: 2852.000+/-0.278 χ^2/NDF : 3381868.7/92

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3803.741 $\pm$ 927.056 χ^2 /NDF: 6.6/19

Left Out: 1390.275 $\pm$ 596.516 χ^2 /NDF:29.2/24

Right Out: 1472.481 $\pm$ 818.919 χ^2 /NDF: 26.7/24

Left In: 3295.367 $\pm$ 609.991 χ^2 /NDF:14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2 /NDF: 49.0/47

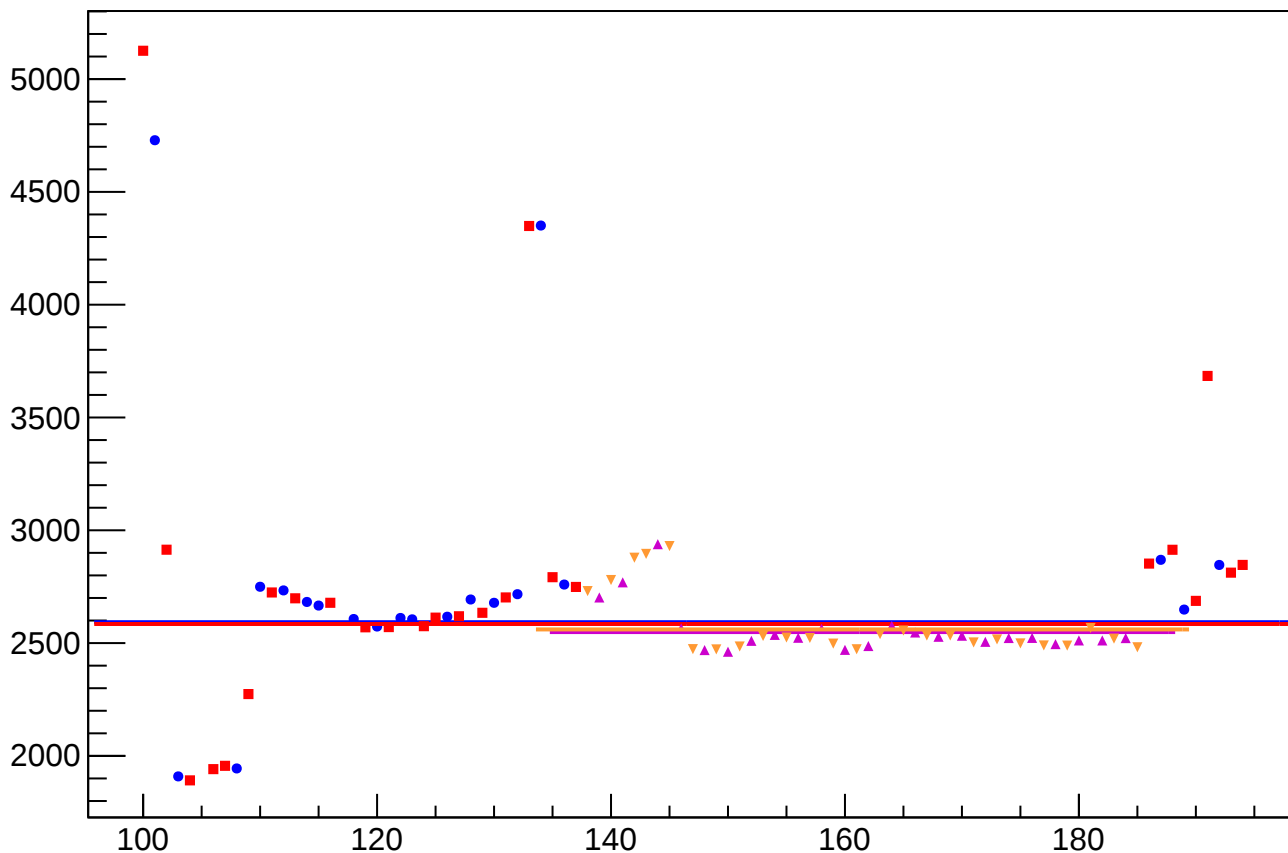
Right: 2494.276 $\pm$ 613.751 χ^2 /NDF: 36.8/44

In: 3448.966 $\pm$ 509.575 χ^2 /NDF:21.6/42

Out: 1418.772 $\pm$ 482.161 χ^2 /NDF:55.9/49

All: 2377.792 $\pm$ 350.230 χ^2 /NDF: 85.9/92

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2592.535+/-0.656 χ^2/NDF : 566210.1/19

Left Out: 2560.531+/-0.422 χ^2/NDF : 86771.4/24

Right Out: 2584.699+/-0.579 χ^2/NDF : 558083.5/24

Left In: 2548.870+/-0.431 χ^2/NDF : 55266.2/22

Left: 2554.831+/-0.302 χ^2/NDF : 142411.2/47

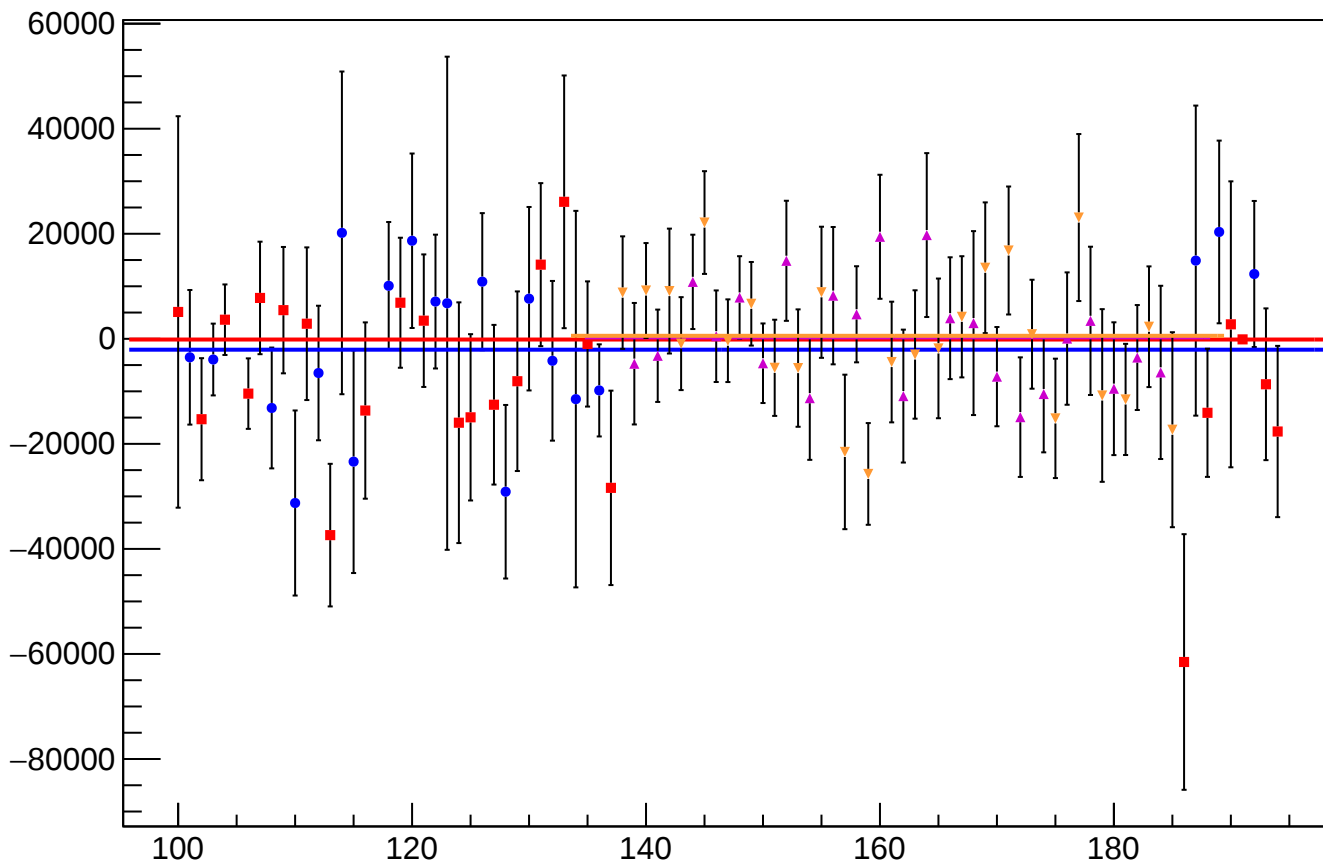
Right: 2588.133+/-0.434 χ^2/NDF : 1124373.9/44

In: 2562.063+/-0.360 χ^2/NDF : 624572.7/42

Out: 2568.909+/-0.341 χ^2/NDF : 645993.0/49

All: 2565.675+/-0.248 χ^2/NDF : 1270756.1/92

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -2071.932 ± 3082.699 χ^2/NDF : 16.4/19

Left Out: 572.477 ± 2184.376 χ^2/NDF : 28.2/24

Right Out: -136.224 ± 195.027 χ^2/NDF : 29.6/24

Left In: 275.116 ± 2242.836 χ^2/NDF : 15.7/22

Left: 427.723 ± 1564.847 χ^2/NDF : 43.9/47

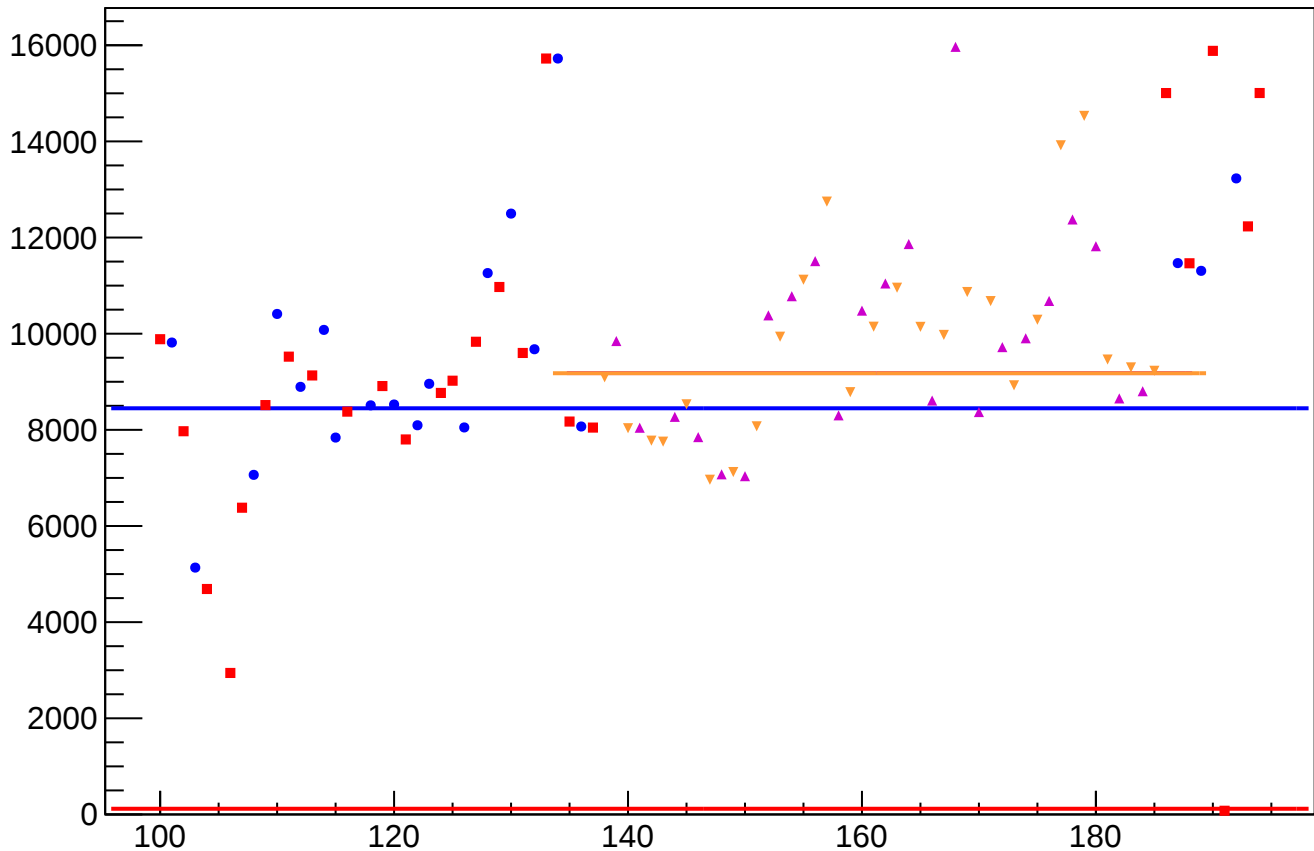
Right: -143.941 ± 194.637 χ^2/NDF : 46.4/44

In: -537.249 ± 1813.618 χ^2/NDF : 32.5/42

Out: -130.619 ± 194.254 χ^2/NDF : 57.9/49

All: -135.231 ± 193.149 χ^2/NDF : 90.5/92

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8448.591+/-2.180

χ^2/NDF : 1136406.5/19

Left Out: 9177.688+/-1.545

χ^2/NDF :1176195.8/24

Right Out: 118.512+/-0.138

χ^2/NDF : 19664905.4/24

Left In: 9181.254+/-1.586

χ^2/NDF :1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 151.720+/-0.138

χ^2/NDF : 35346893.4/44

In: 8927.663+/-1.282

χ^2/NDF :2446747.1/42

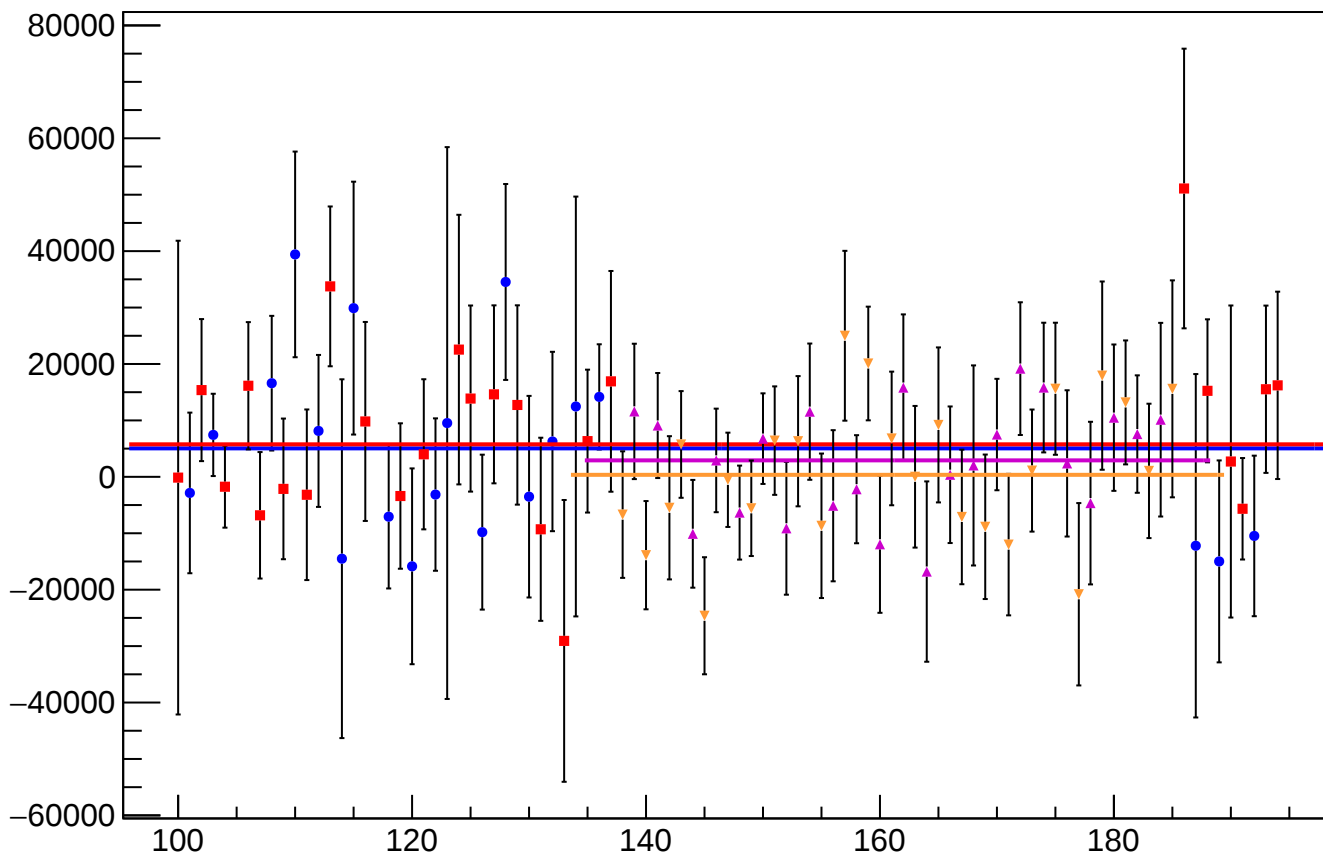
Out: 190.155+/-0.137

χ^2/NDF :54968591.0/49

All: 289.257+/-0.137

χ^2/NDF : 103309715.4/9

asym_atr2_mean vs Slug, Sign Corrected



Right In: 5042.983+/-3248.617 χ^2/NDF : 17.4/19

Left Out: 355.717+/-2281.682 χ^2/NDF : 26.2/24

Right Out: 5762.992+/-2784.039 χ^2/NDF : 19.7/24

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

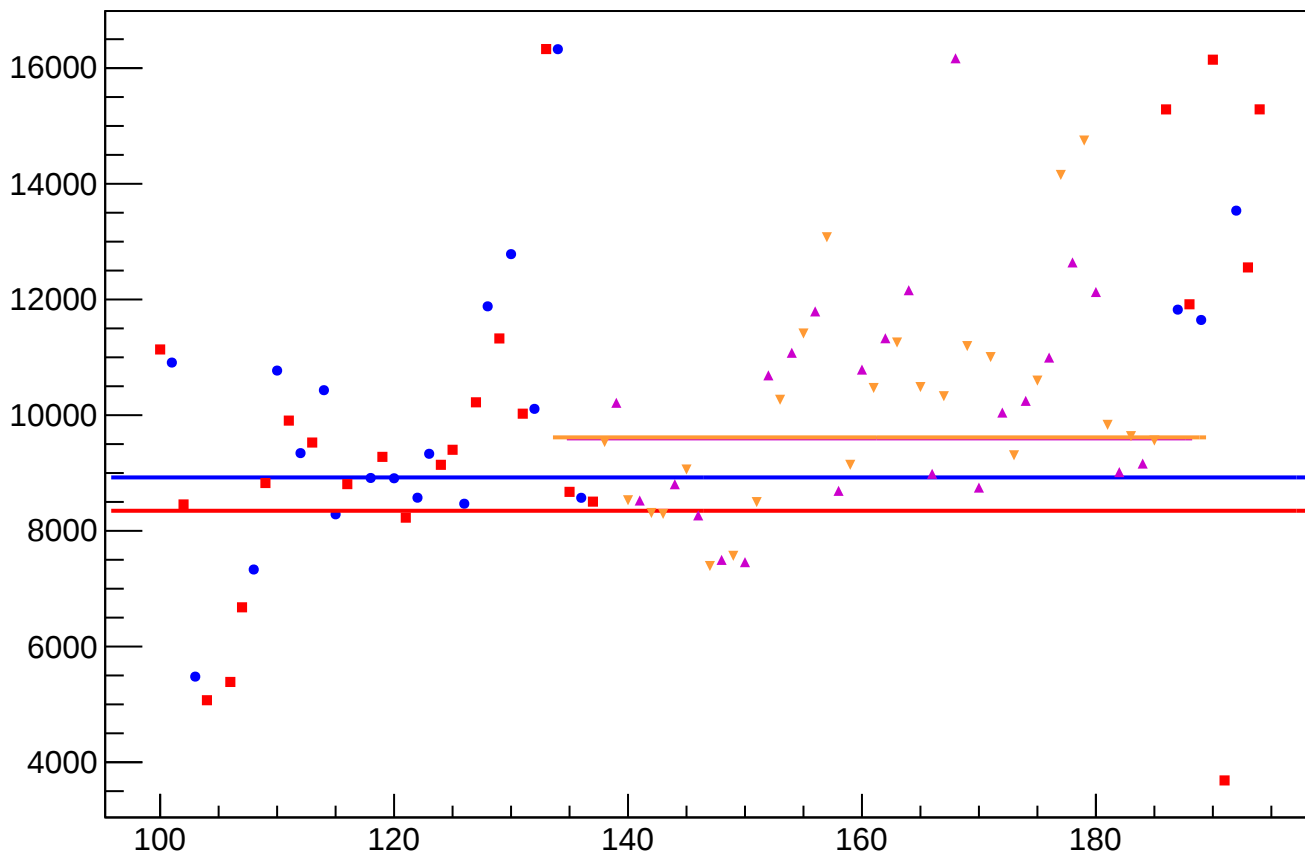
Right: 5458.109+/-2113.957 χ^2/NDF : 37.1/44

In: 3643.507+/-1897.892 χ^2/NDF : 32.6/42

Out: 2528.349+/-1764.733 χ^2/NDF : 48.2/49

All: 3045.439+/-1292.368 χ^2/NDF : 81.0/92

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8923.882+/-2.297 χ^2/NDF : 1072197.2/19

Left Out: 9616.245+/-1.613 χ^2/NDF : 1011665.6/24

Right Out: 8347.334+/-1.969 χ^2/NDF : 2494732.6/24

Left In: 9598.531+/-1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155 χ^2/NDF : 2093896.0/47

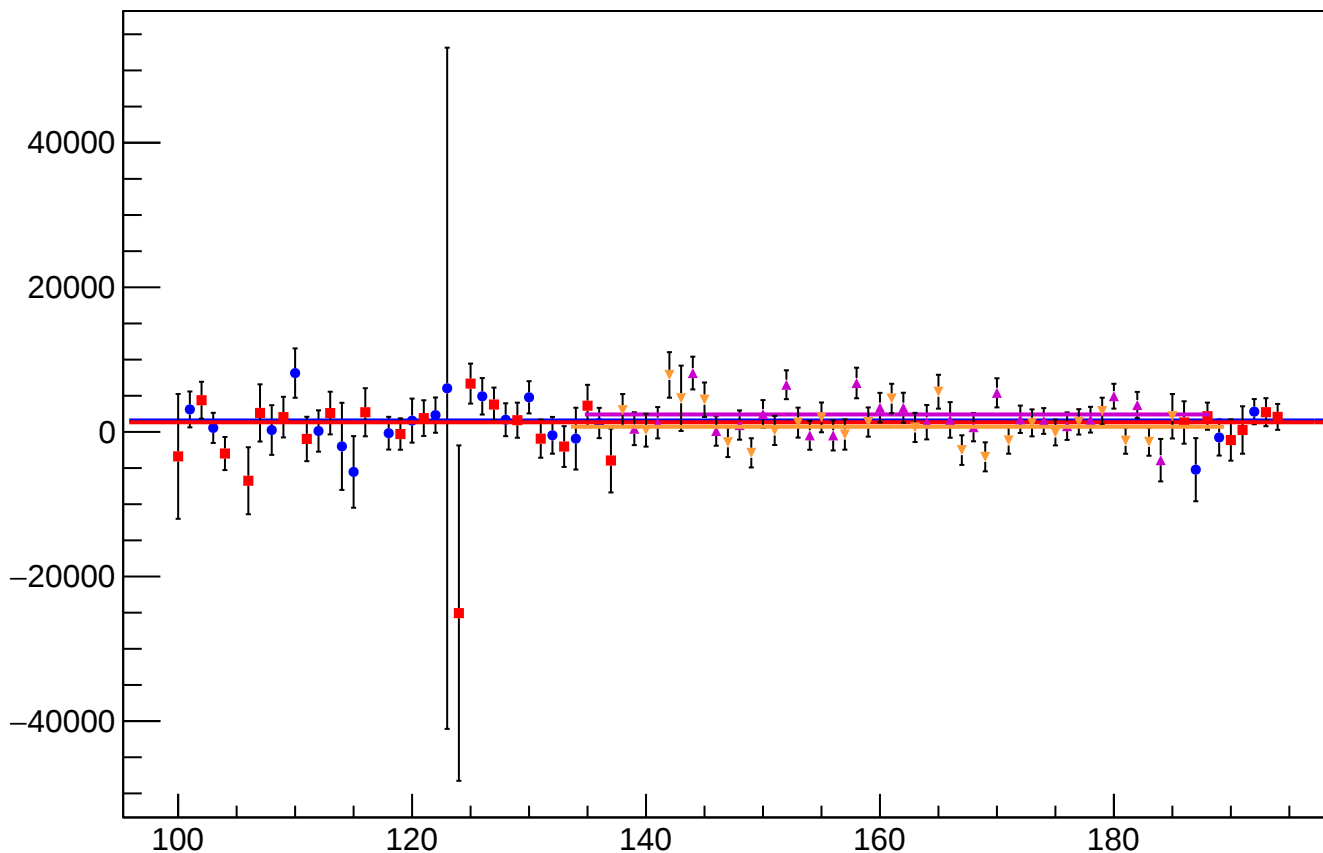
Right: 8591.459+/-1.495 χ^2/NDF : 3603251.0/44

In: 9368.268+/-1.342 χ^2/NDF : 2211184.9/42

Out: 9106.377+/-1.248 χ^2/NDF : 3754945.7/49

All: 9227.812+/-0.914 χ^2/NDF : 5986555.1/92

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1583.646+/-602.469 χ^2/NDF : 16.5/19

Left Out: 709.722+/-417.377 χ^2/NDF :34.8/24

Right Out: 1331.499+/-542.207 χ^2/NDF : 22.2/24

Left In: 2414.749+/-423.472 χ^2/NDF :34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

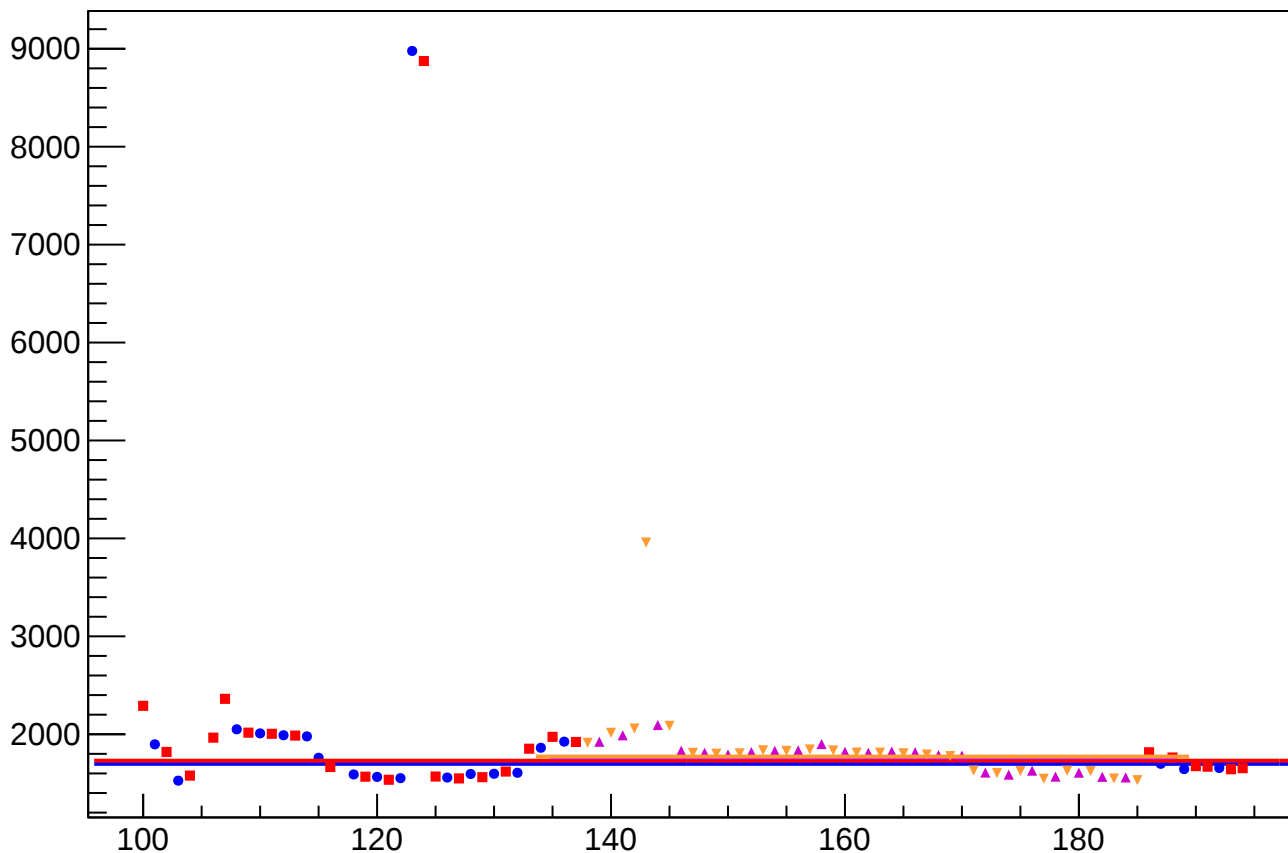
Right: 1444.335+/-403.024 χ^2/NDF : 38.8/44

In: 2139.918+/-346.450 χ^2/NDF :51.7/42

Out: 941.072+/-330.736 χ^2/NDF :57.8/49

All: 1512.691+/-239.228 χ^2/NDF : 115.8/92

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1698.061 $\pm$ 0.426 χ^2 /NDF: 198327.1/19

Left Out: 1772.046 $\pm$ 0.295 χ^2 /NDF: 702472.4/24

Right Out: 1730.056 $\pm$ 0.382 χ^2 /NDF: 409209.6/24

Left In: 1759.600 $\pm$ 0.299 χ^2 /NDF: 214891.5/22

Left: 1765.913 $\pm$ 0.210 χ^2 /NDF: 918240.2/47

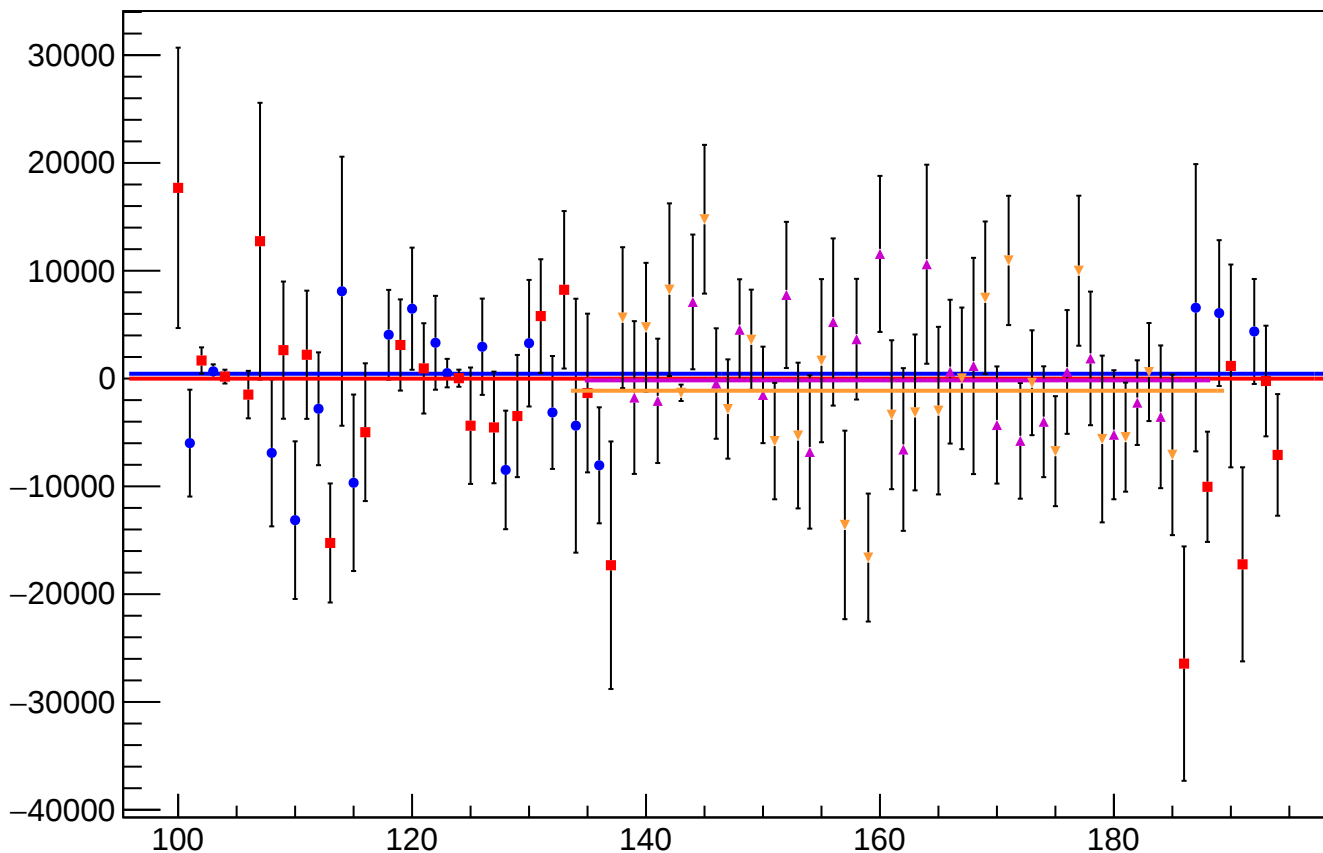
Right: 1715.784 $\pm$ 0.285 χ^2 /NDF: 610661.2/44

In: 1739.250 $\pm$ 0.245 χ^2 /NDF: 427185.0/42

Out: 1756.365 $\pm$ 0.234 χ^2 /NDF: 1119241.4/49

All: 1748.214 $\pm$ 0.169 χ^2 /NDF: 1548982.7/92

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 444.978 $\pm$ 535.243 χ^2 /NDF: 18.9/19

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: -6.905 $\pm$ 428.085 χ^2 /NDF: 36.0/24

Left In: -168.182 $\pm$ 1232.411 χ^2 /NDF:14.2/22

Left: -921.734 $\pm$ 573.272 χ^2 /NDF: 46.1/47

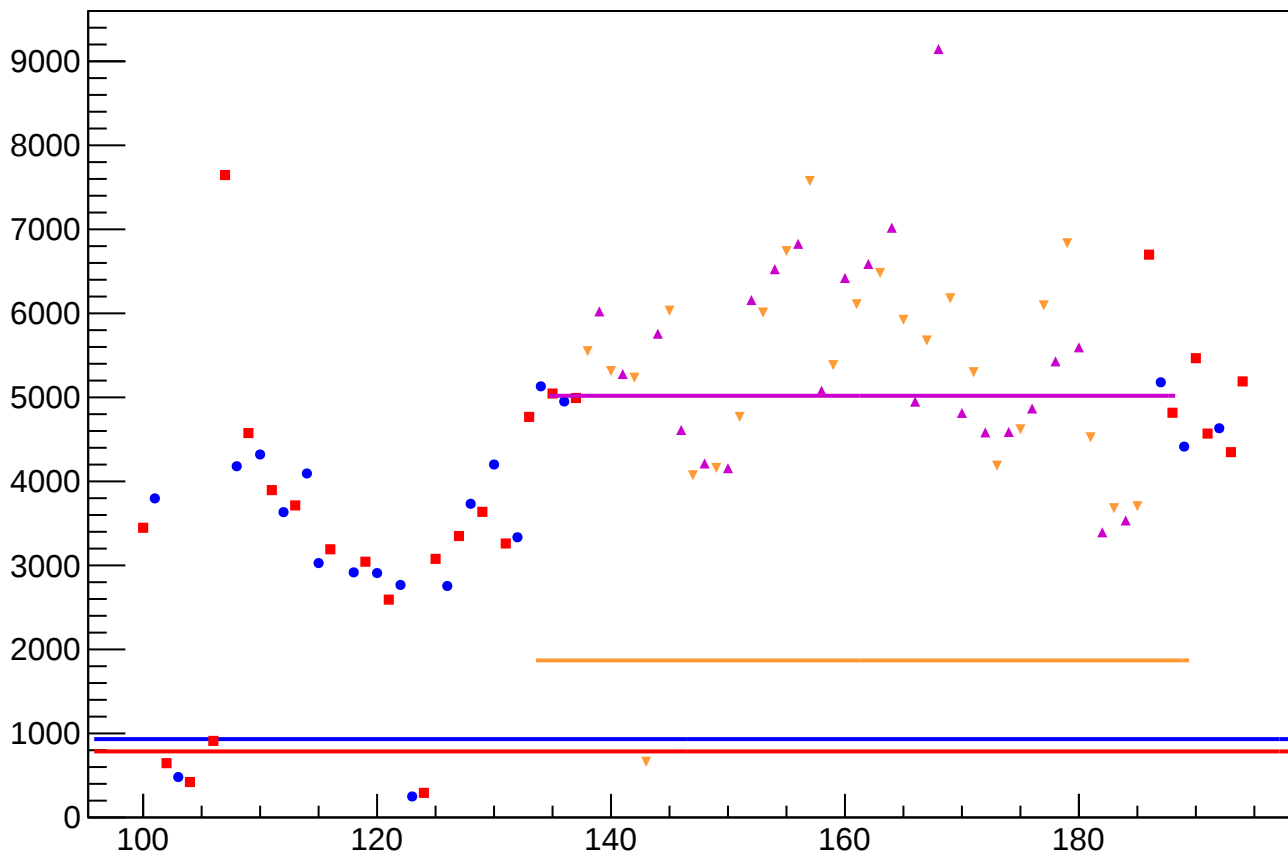
Right: 169.385 $\pm$ 334.311 χ^2 /NDF: 55.3/44

In: 347.676 $\pm$ 490.941 χ^2 /NDF:33.3/42

Out: -348.366 $\pm$ 357.114 χ^2 /NDF:69.6/49

All: -107.515 $\pm$ 288.792 χ^2 /NDF: 104.2/92

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 932.628+/-0.378 χ^2/NDF : 10052085.3/19

Left Out: 1868.983+/-0.458 χ^2/NDF : 19852416.6/24

Right Out: 785.949+/-0.303 χ^2/NDF : 13347471.7/24

Left In: 5019.114+/-0.871 χ^2/NDF : 1569031.9/22

Left: 2550.597+/-0.405 χ^2/NDF : 31661059.7/47

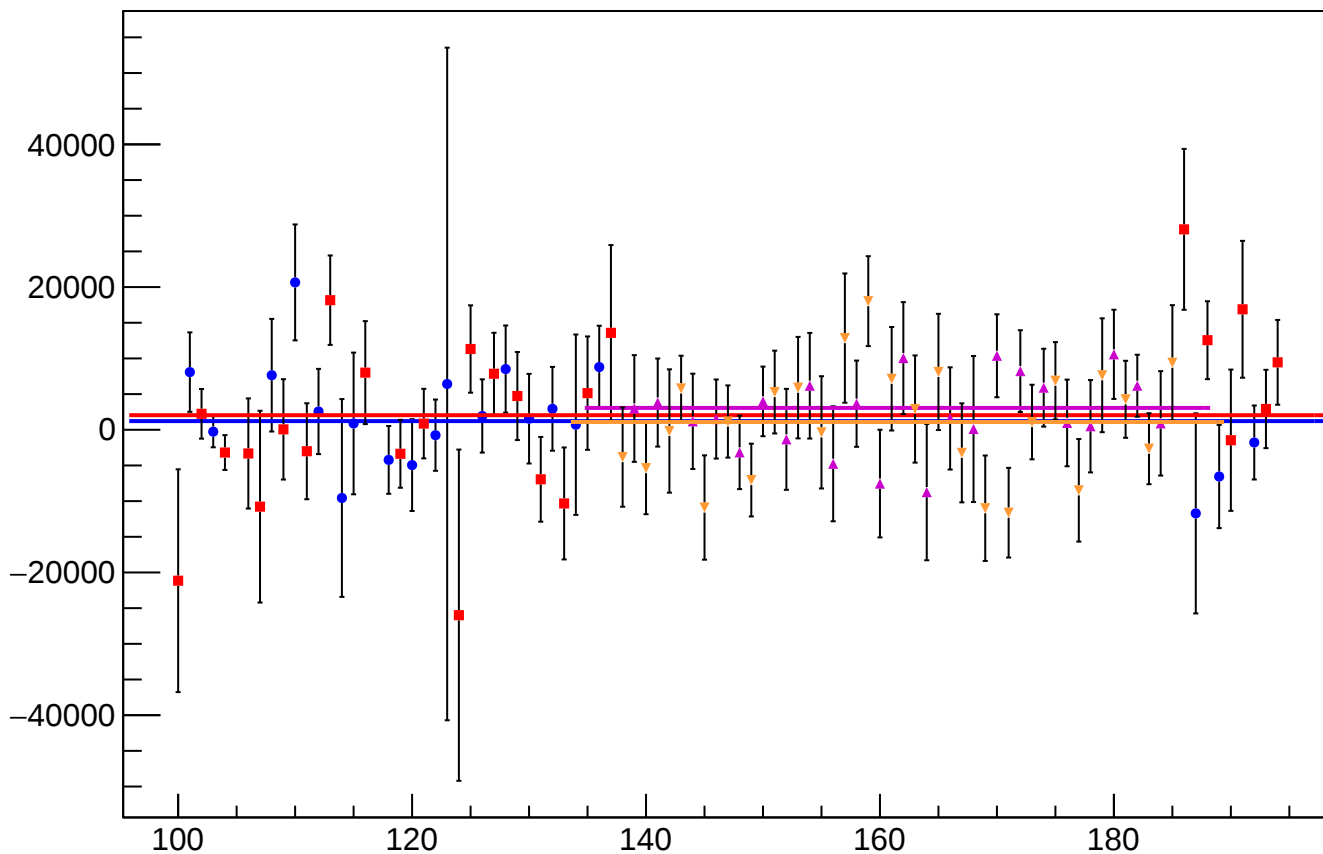
Right: 843.172+/-0.236 χ^2/NDF : 23491159.0/44

In: 1581.108+/-0.347 χ^2/NDF : 30121268.7/42

Out: 1115.288+/-0.253 χ^2/NDF : 37092621.8/49

All: 1276.475+/-0.204 χ^2/NDF : 68391408.0/95

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1216.364 $\pm$ 1248.825 χ^2 /NDF: 17.0/19

Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24

Right Out: 2043.311 $\pm$ 1173.301 χ^2 /NDF: 41.4/24

Left In: 3064.775 $\pm$ 1318.173 χ^2 /NDF:12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2 /NDF: 45.7/47

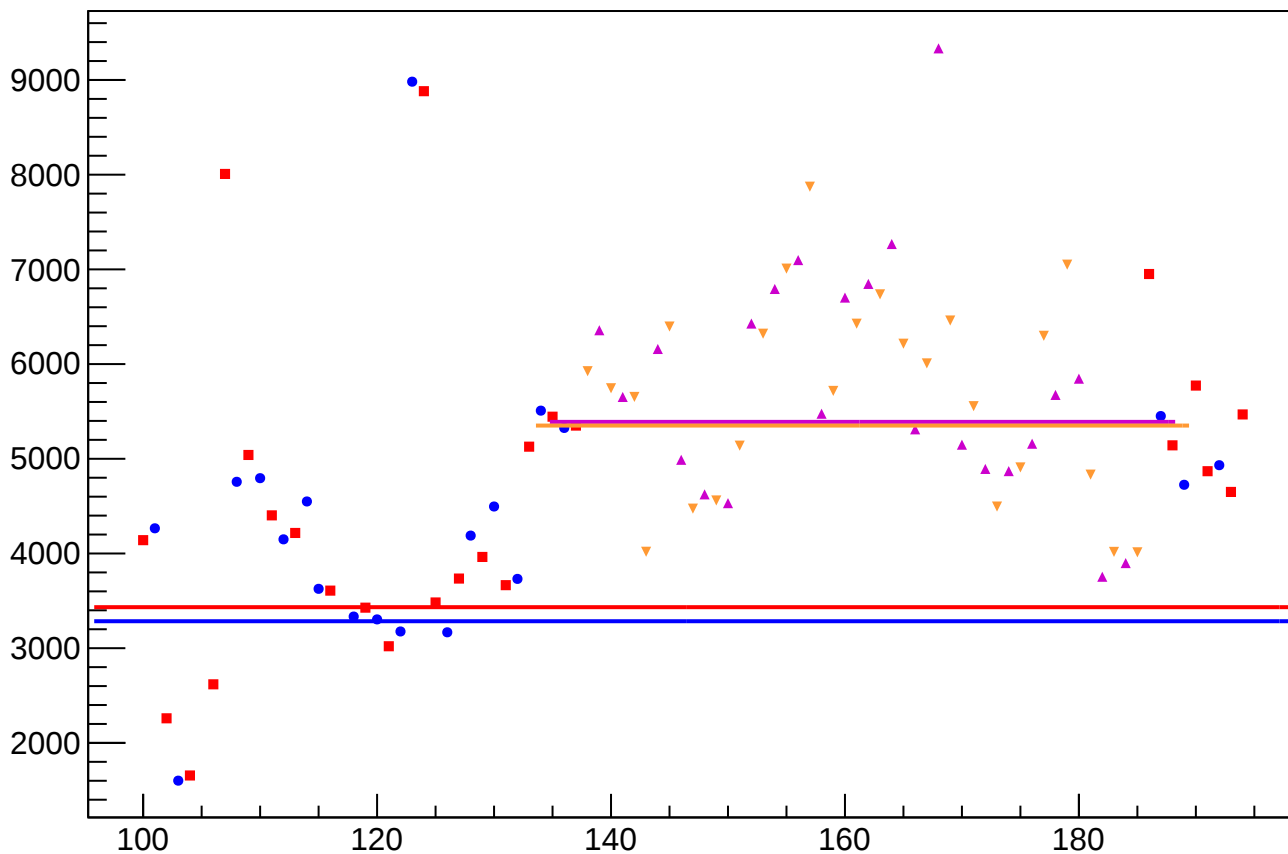
Right: 1655.598 $\pm$ 855.103 χ^2 /NDF: 58.7/44

In: 2090.671 $\pm$ 906.578 χ^2 /NDF:30.6/42

Out: 1607.468 $\pm$ 862.780 χ^2 /NDF:73.7/49

All: 1837.116 $\pm$ 624.988 χ^2 /NDF: 104.5/92

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3284.750 $\pm$ 0.883 χ^2 /NDF: 2245907.3/19

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF:1241497.9/24

Right Out: 3433.118 $\pm$ 0.820 χ^2 /NDF: 3047015.7/24

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF:1309863.0/22

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

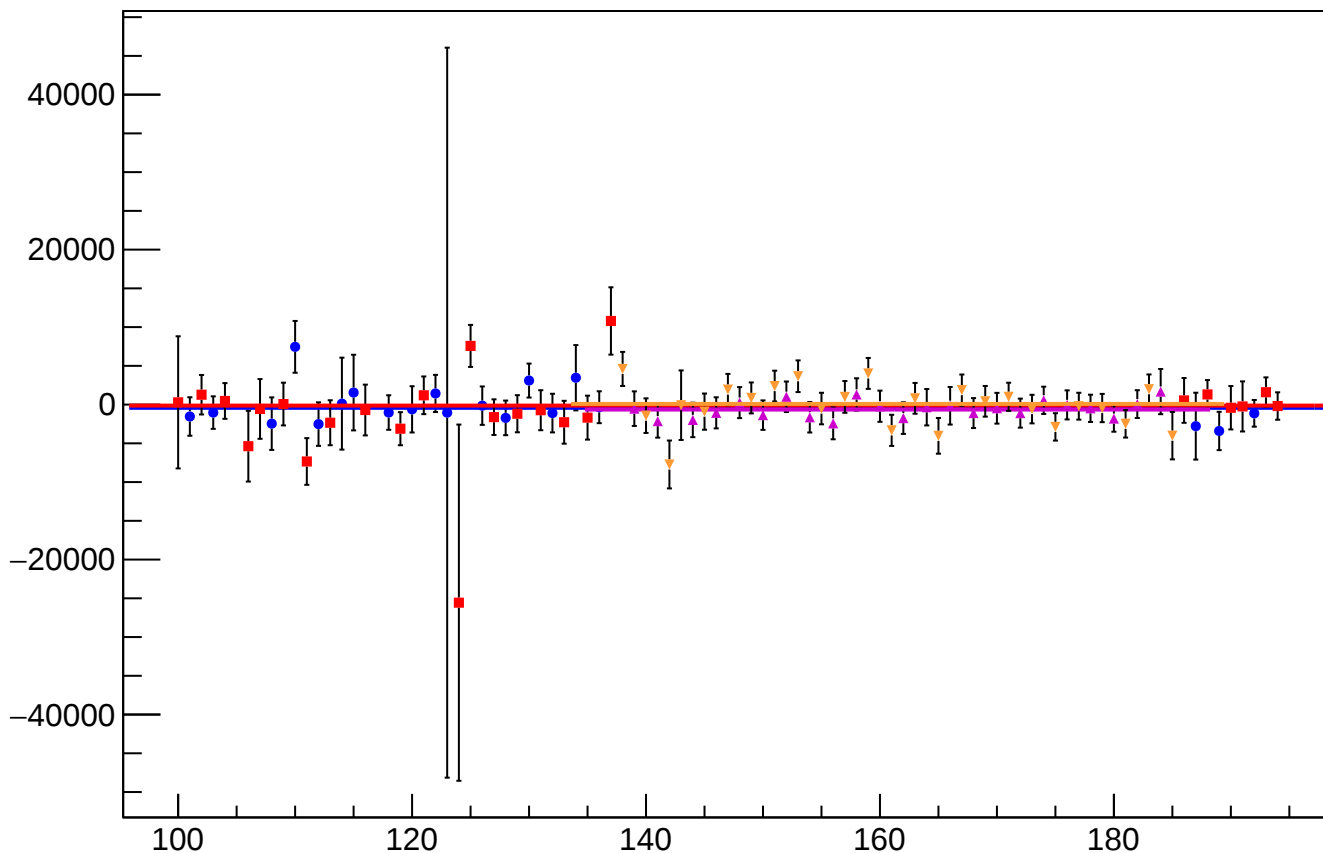
Right: 3364.453 $\pm$ 0.601 χ^2 /NDF: 5308088.2/44

In: 4280.407 $\pm$ 0.641 χ^2 /NDF:6243510.5/42

Out: 4302.276 $\pm$ 0.606 χ^2 /NDF:6769668.1/49

All: 4291.955 $\pm$ 0.440 χ^2 /NDF: 13013793.2/99

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -413.978+/-594.398 χ^2/NDF : 13.4/19

Left Out: 86.214+/-411.530 χ^2/NDF : 36.0/24

Right Out: -129.990+/-534.485 χ^2/NDF : 29.0/24

Left In: -640.235+/-417.645 χ^2/NDF : 6.2/22

Left: -271.653+/-293.134 χ^2/NDF : 43.7/47

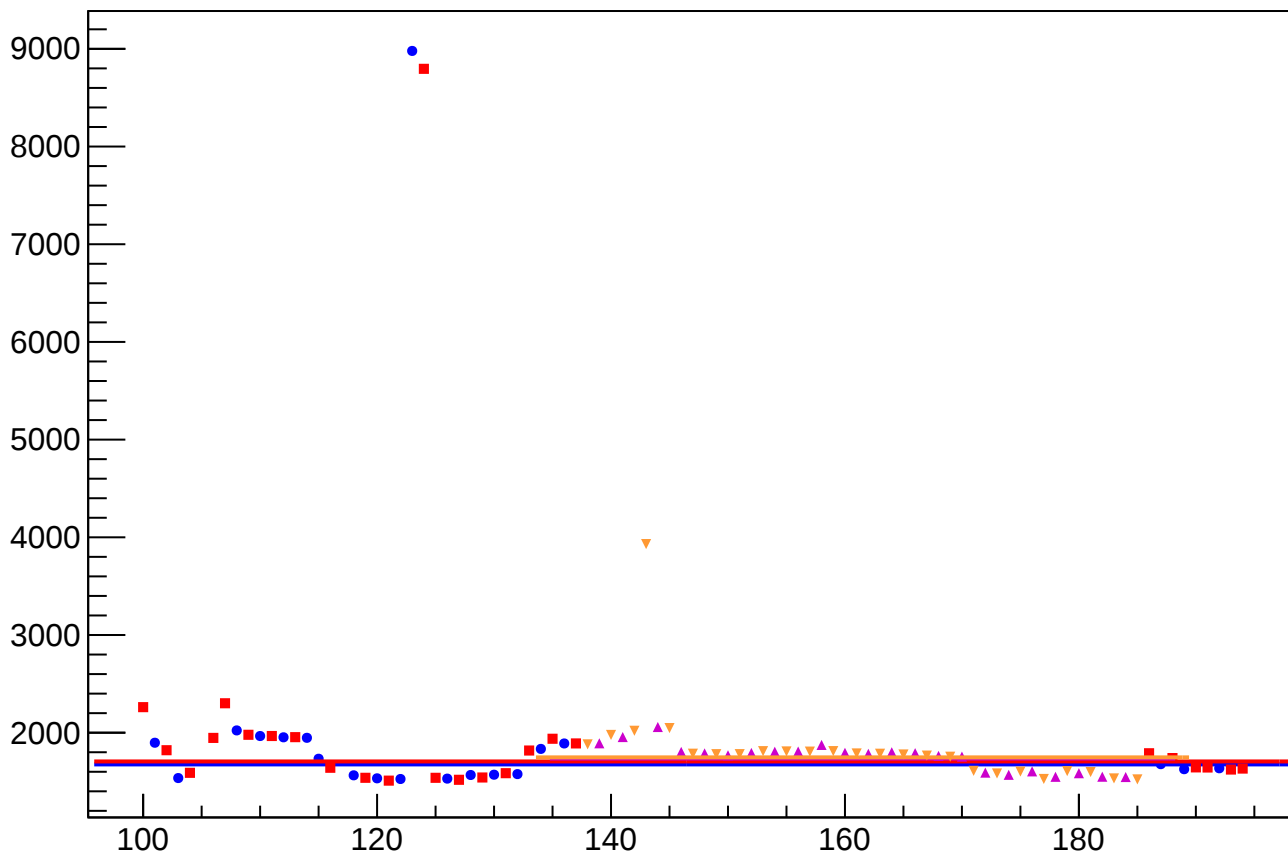
Right: -256.954+/-397.437 χ^2/NDF : 42.5/44

In: -565.453+/-341.724 χ^2/NDF : 19.7/42

Out: 5.746+/-326.074 χ^2/NDF : 65.1/49

All: -266.474+/-235.908 χ^2/NDF : 86.2/92

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1675.381+/-0.420 χ^2/NDF : 196242.9/19

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1705.776+/-0.377 χ^2/NDF : 405135.6/24

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

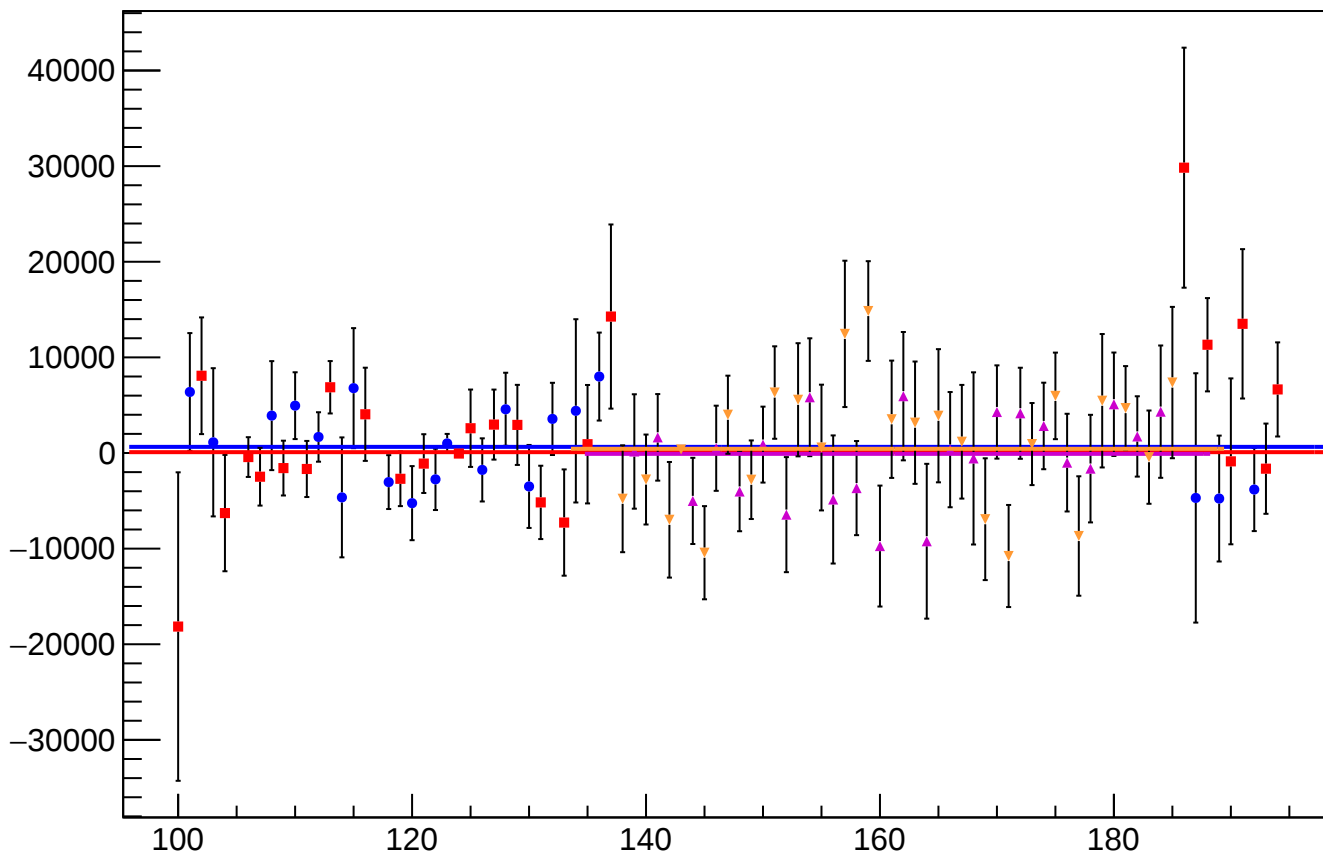
Right: 1692.230+/-0.281 χ^2/NDF : 604277.5/44

In: 1715.656+/-0.242 χ^2/NDF : 416725.5/42

Out: 1731.803+/-0.230 χ^2/NDF : 1110940.9/49

All: 1724.116+/-0.167 χ^2/NDF : 1530005.8/92

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 642.132 $\pm$ 692.802 χ^2 /NDF: 17.5/19

Left Out: 442.187 $\pm$ 440.335 χ^2 /NDF:33.9/24

Right Out: 87.959 $\pm$ 353.619 χ^2 /NDF: 36.7/24

Left In: -88.508 $\pm$ 1094.838 χ^2 /NDF:13.4/22

Left: 368.296 $\pm$ 408.531 χ^2 /NDF: 47.5/47

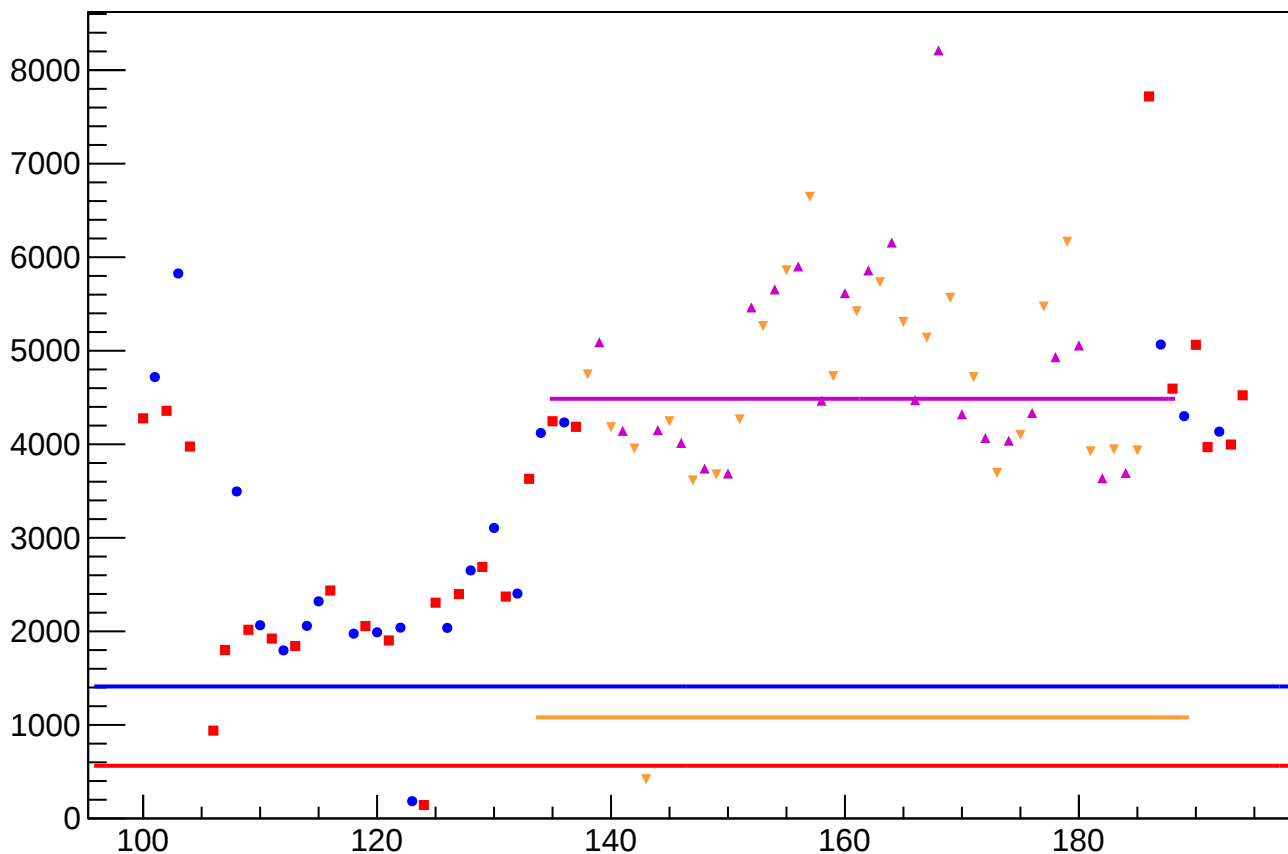
Right: 202.496 $\pm$ 314.963 χ^2 /NDF: 54.7/44

In: 433.220 $\pm$ 585.436 χ^2 /NDF:31.3/42

Out: 226.840 $\pm$ 275.717 χ^2 /NDF:71.0/49

All: 264.306 $\pm$ 249.438 χ^2 /NDF: 102.4/92

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1411.184 $\pm$ 0.490

χ^2 /NDF: 7891662.9/19

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

Right Out: 563.171 $\pm$ 0.250

χ^2 /NDF: 15514025.1/24

Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

Left: 1555.179 $\pm$ 0.289

χ^2 /NDF: 42294704.7/47

Right: 738.439 $\pm$ 0.223

χ^2 /NDF: 25782881.5/44

In: 2290.529 $\pm$ 0.414

χ^2 /NDF: 20341866.7/42

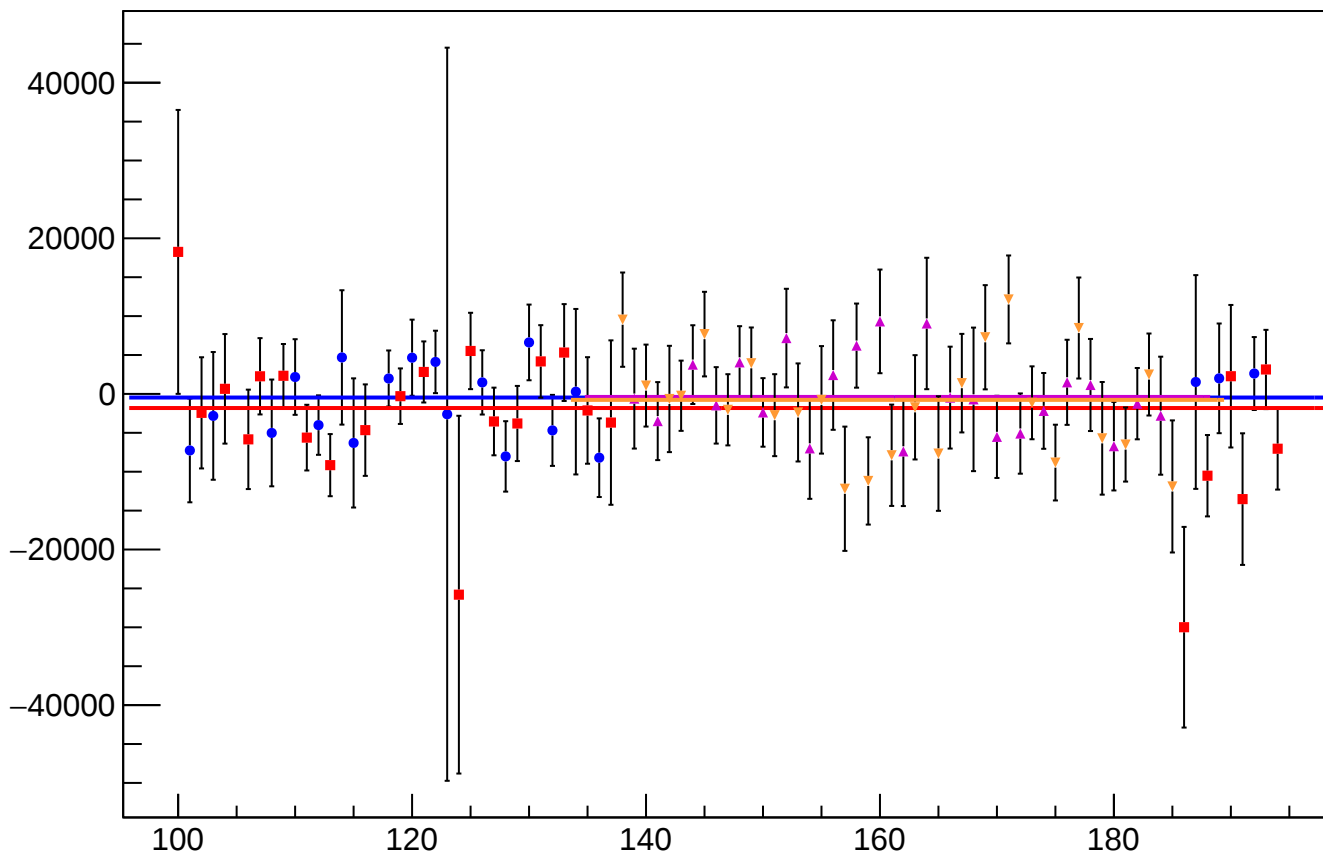
Out: 766.196 $\pm$ 0.195

χ^2 /NDF: 41651776.7/49

All: 1042.919 $\pm$ 0.176

χ^2 /NDF: 73091245.6/95

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -465.377 ± 1199.241 $\chi^2/\text{NDF}: 15.3/19$

Left Out: -766.008 ± 1147.372 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -1814.510 ± 1088.165 $\chi^2/\text{NDF}: 27.7/24$

Left In: -388.944 ± 1186.300 $\chi^2/\text{NDF}: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/\text{NDF}: 44.2/47$

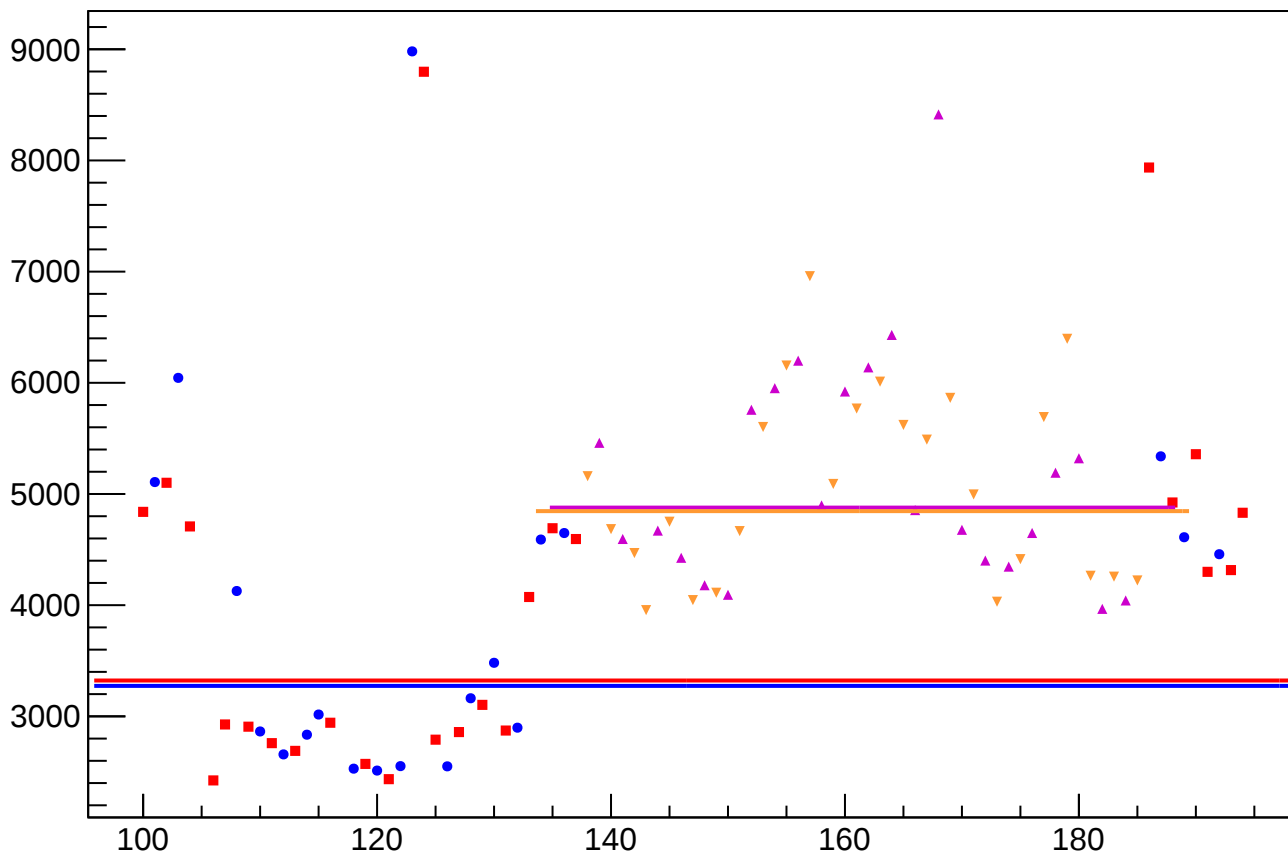
Right: -1205.303 ± 805.864 $\chi^2/\text{NDF}: 43.7/44$

In: -426.746 ± 843.379 $\chi^2/\text{NDF}: 29.5/42$

Out: -1318.008 ± 789.550 $\chi^2/\text{NDF}: 58.1/49$

All: -901.725 ± 576.387 $\chi^2/\text{NDF}: 88.2/92$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3274.054+/-0.848 χ^2/NDF : 1214556.6/19

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3322.400+/-0.761 χ^2/NDF : 1732760.6/24

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

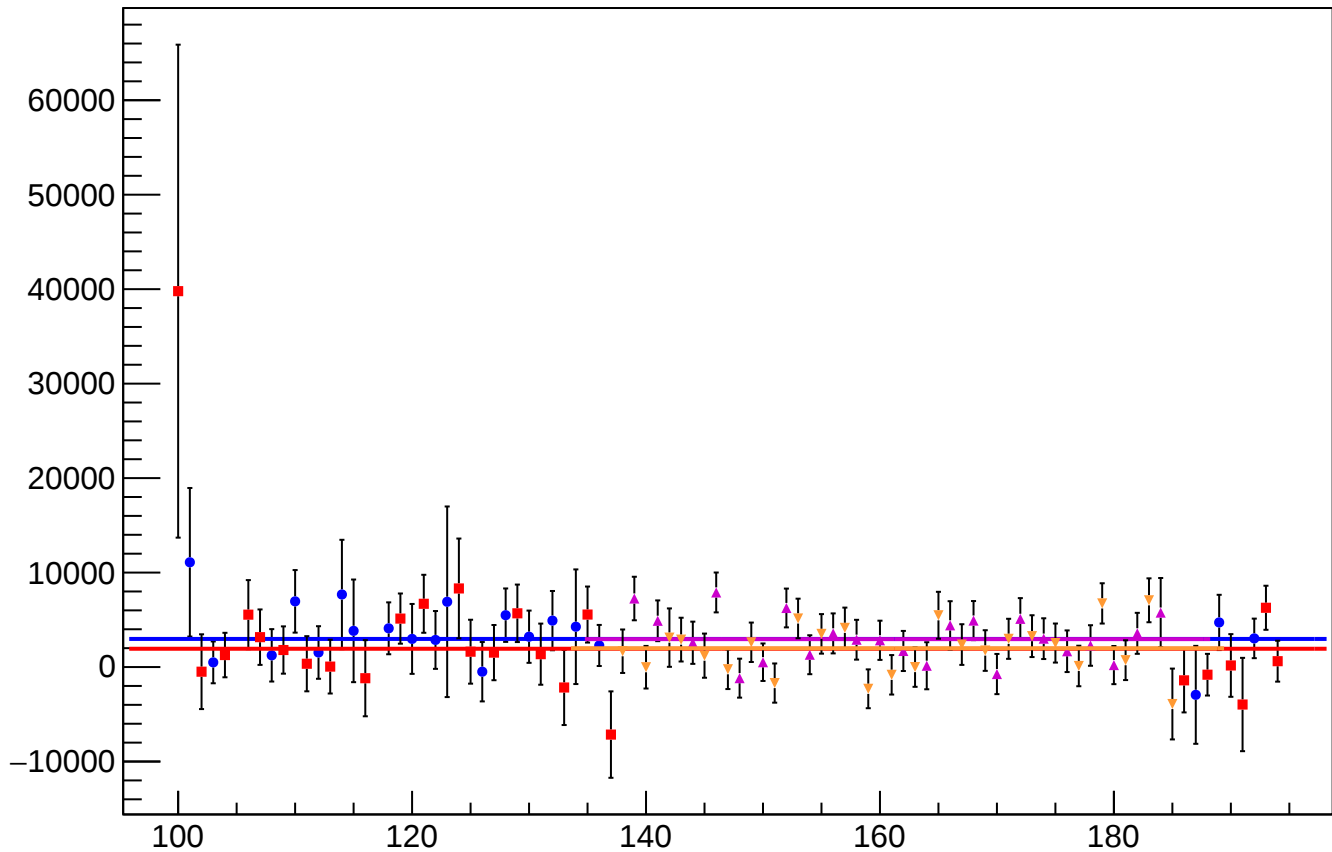
Right: 3300.820+/-0.567 χ^2/NDF : 2949116.8/44

In: 4084.449+/-0.596 χ^2/NDF : 3980187.1/42

Out: 4035.816+/-0.555 χ^2/NDF : 4516473.7/49

All: 4058.397+/-0.406 χ^2/NDF : 8500223.4/92

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2976.416+/-700.783 χ^2/NDF : 9.6/19

Left Out: 1985.469+/-443.190 χ^2/NDF :32.4/24

Right Out: 1936.921+/-615.836 χ^2/NDF : 26.5/24

Left In: 2955.900+/-454.551 χ^2/NDF :28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

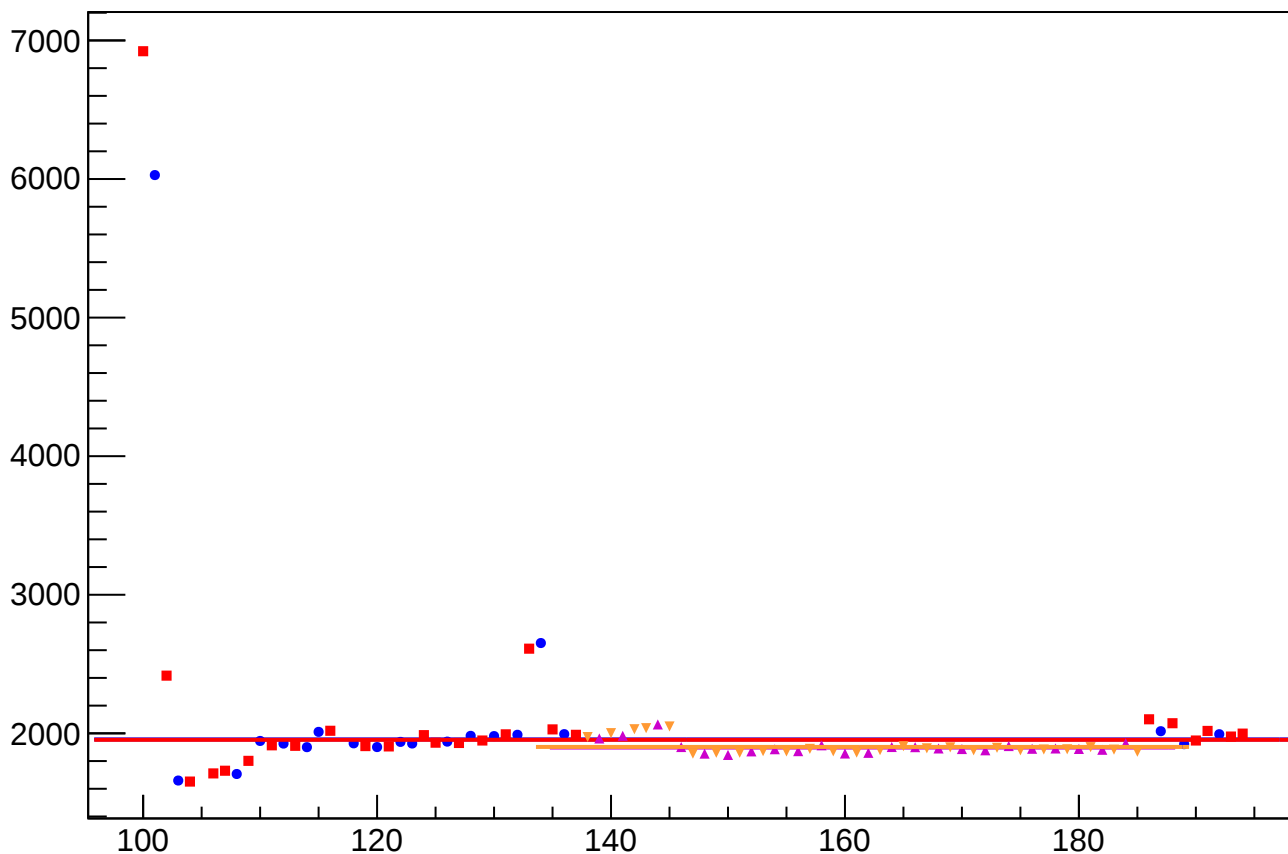
Right: 2389.880+/-462.596 χ^2/NDF : 37.4/44

In: 2961.976+/-381.353 χ^2/NDF :38.1/42

Out: 1968.905+/-359.722 χ^2/NDF :58.9/49

All: 2436.479+/-261.675 χ^2/NDF : 100.6/92

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1956.188+/-0.496 χ^2/NDF : 618621.5/19

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1953.329+/-0.435 χ^2/NDF : 231719.6/24

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

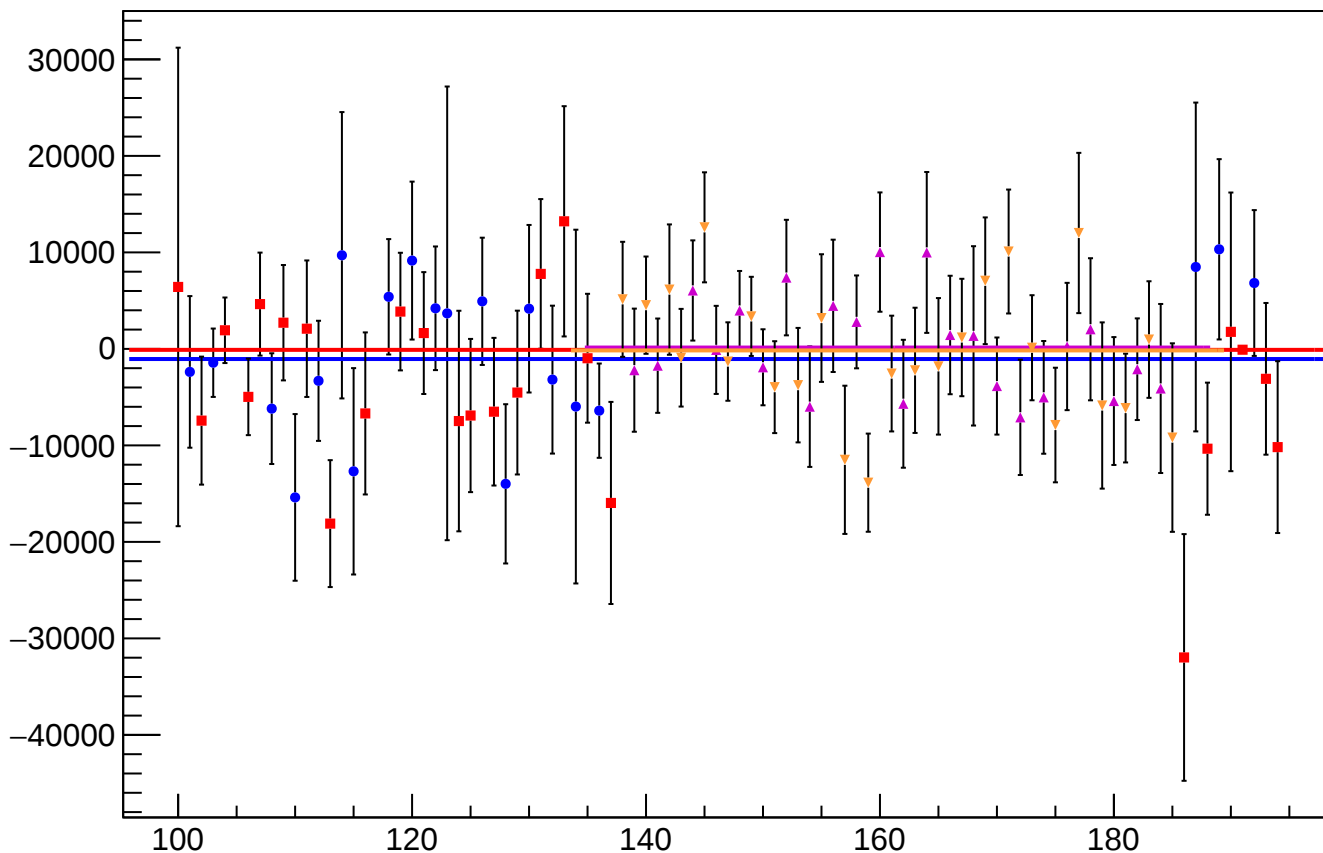
Right: 1954.572+/-0.327 χ^2/NDF : 850359.9/44

In: 1914.848+/-0.270 χ^2/NDF : 649689.4/42

Out: 1919.474+/-0.254 χ^2/NDF : 271381.0/49

All: 1917.297+/-0.185 χ^2/NDF : 921226.2/92

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1050.617 $\pm$ 1594.875 χ^2 /NDF: 16.7/19

Left Out: -157.539 $\pm$ 1165.844 χ^2 /NDF:29.5/24

Right Out: -100.133 $\pm$ 109.606 χ^2 /NDF: 29.5/24

Left In: 139.000 $\pm$ 1190.889 χ^2 /NDF:14.7/22

Left: -12.420 $\pm$ 833.090 χ^2 /NDF: 44.2/47

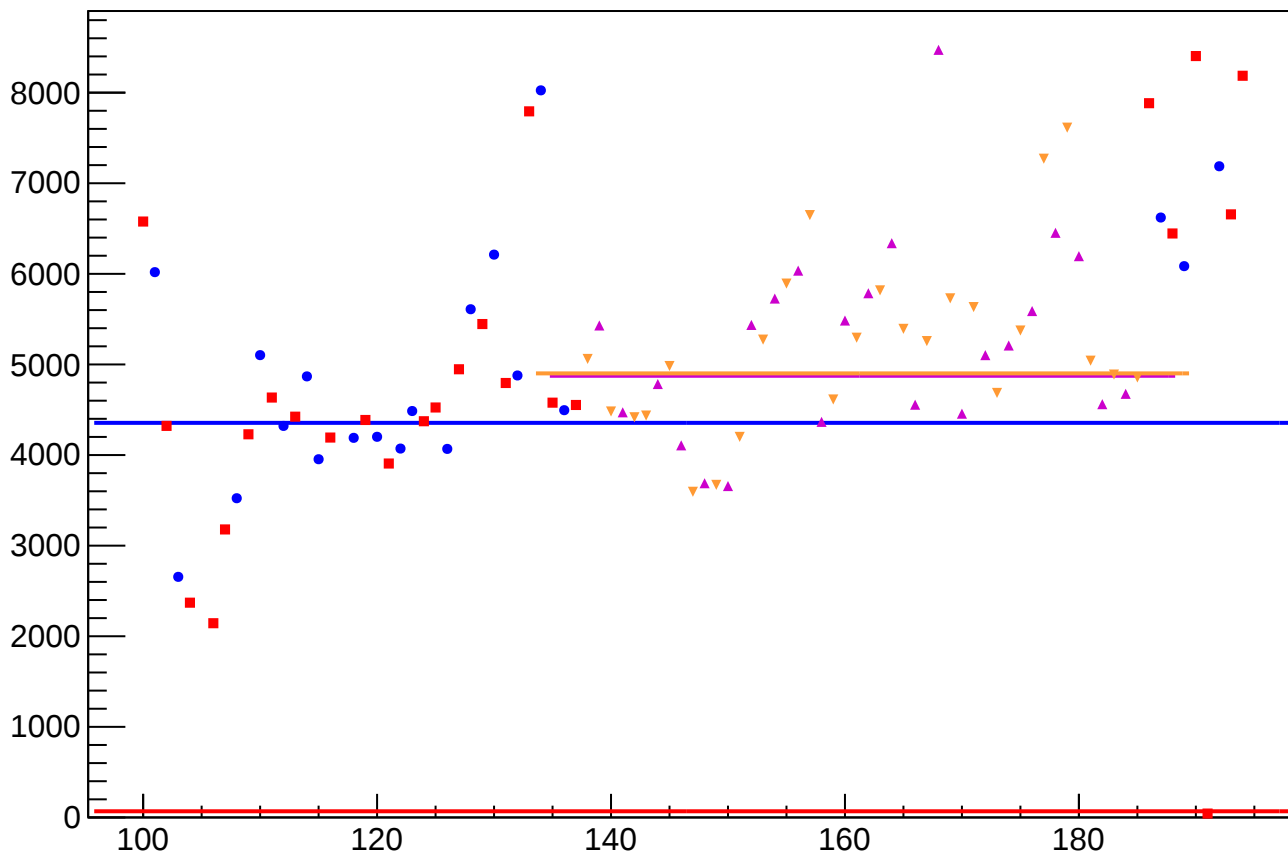
Right: -104.601 $\pm$ 109.348 χ^2 /NDF: 46.6/44

In: -286.846 $\pm$ 954.222 χ^2 /NDF:31.8/42

Out: -100.636 $\pm$ 109.125 χ^2 /NDF:59.0/49

All: -103.040 $\pm$ 108.418 χ^2 /NDF: 90.9/92

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4355.405+/-1.128 χ^2/NDF : 1236211.1/19

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 68.215+/-0.078 χ^2/NDF : 19729475.5/24

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

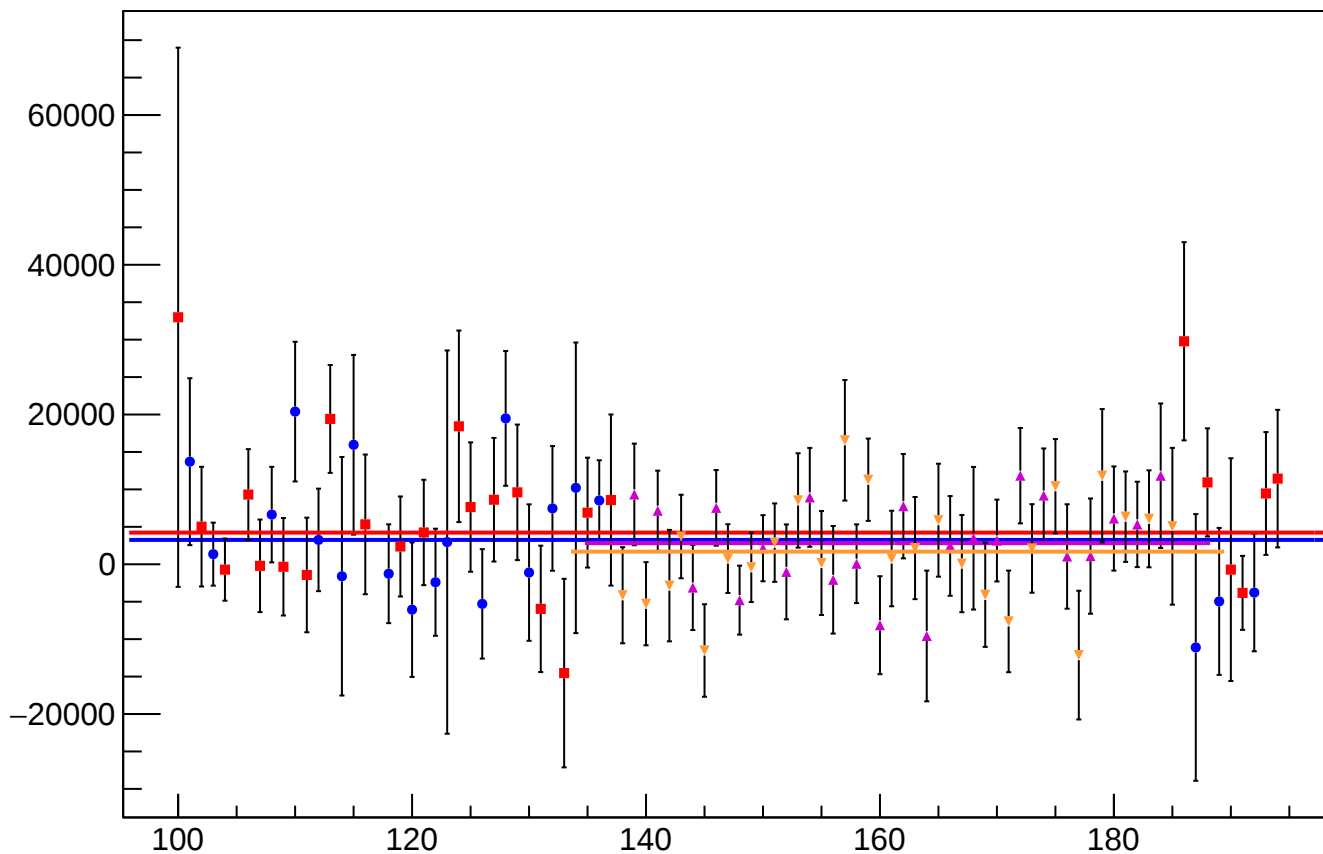
Right: 88.368+/-0.077 χ^2/NDF : 35349568.4/44

In: 4689.073+/-0.675 χ^2/NDF : 2601757.4/42

Out: 110.560+/-0.077 χ^2/NDF : 54937487.9/49

All: 169.665+/-0.077 χ^2/NDF : 102989609.7/99

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3254.139+/-1784.966 χ^2/NDF : 16.5/19

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4226.920+/-1521.758 χ^2/NDF : 23.2/24

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

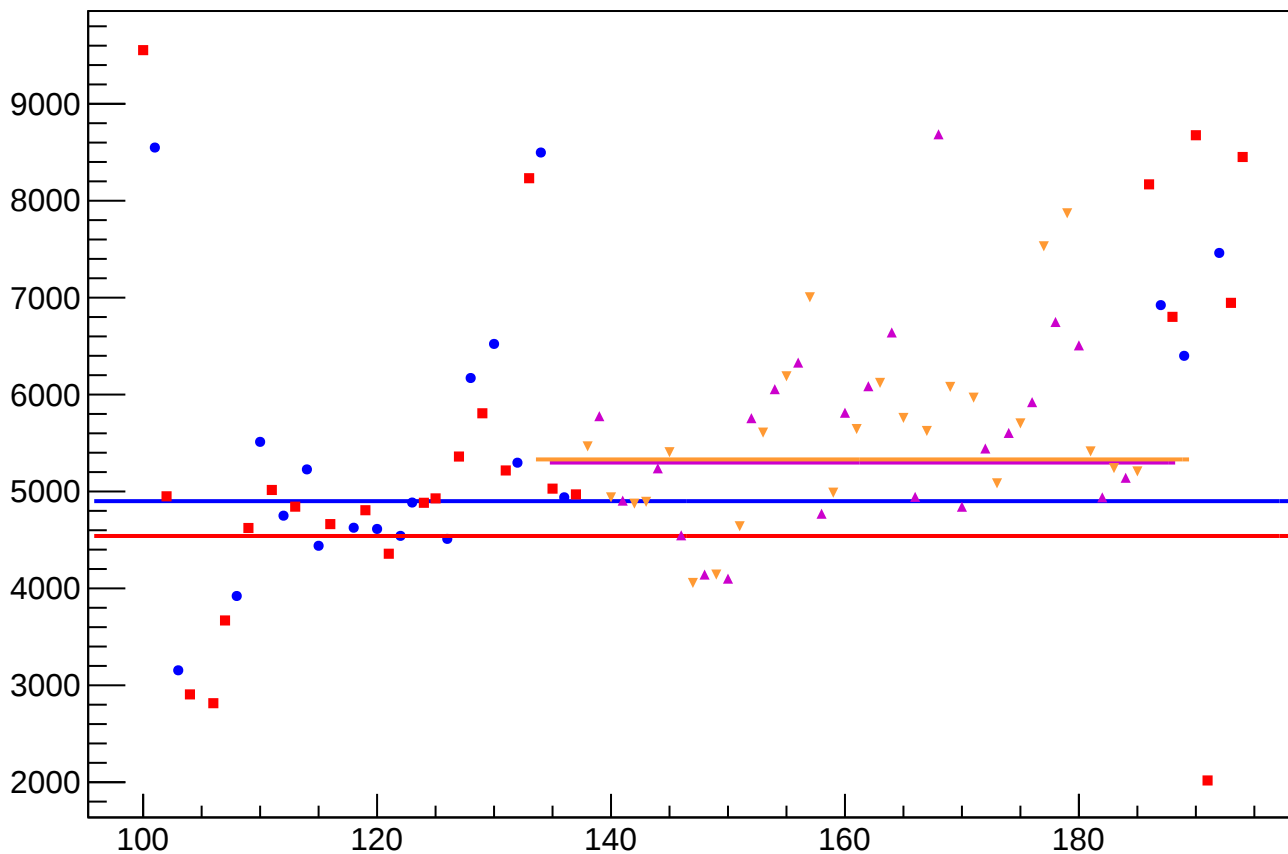
Right: 3817.473+/-1158.034 χ^2/NDF : 39.8/44

In: 2971.393+/-1044.693 χ^2/NDF : 34.5/42

Out: 2721.383+/-971.258 χ^2/NDF : 50.3/49

All: 2837.293+/-711.329 χ^2/NDF : 84.8/92

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4900.275 $\pm$ 1.262 χ^2/NDF : 1097338.5/19

Left Out: 5330.725 $\pm$ 0.892 χ^2/NDF : 868061.7/24

Right Out: 4540.749 $\pm$ 1.071 χ^2/NDF : 2412554.9/24

Left In: 5298.329 $\pm$ 0.911 χ^2/NDF : 956021.6/22

Left: 5314.867 $\pm$ 0.637 χ^2/NDF : 1824728.8/47

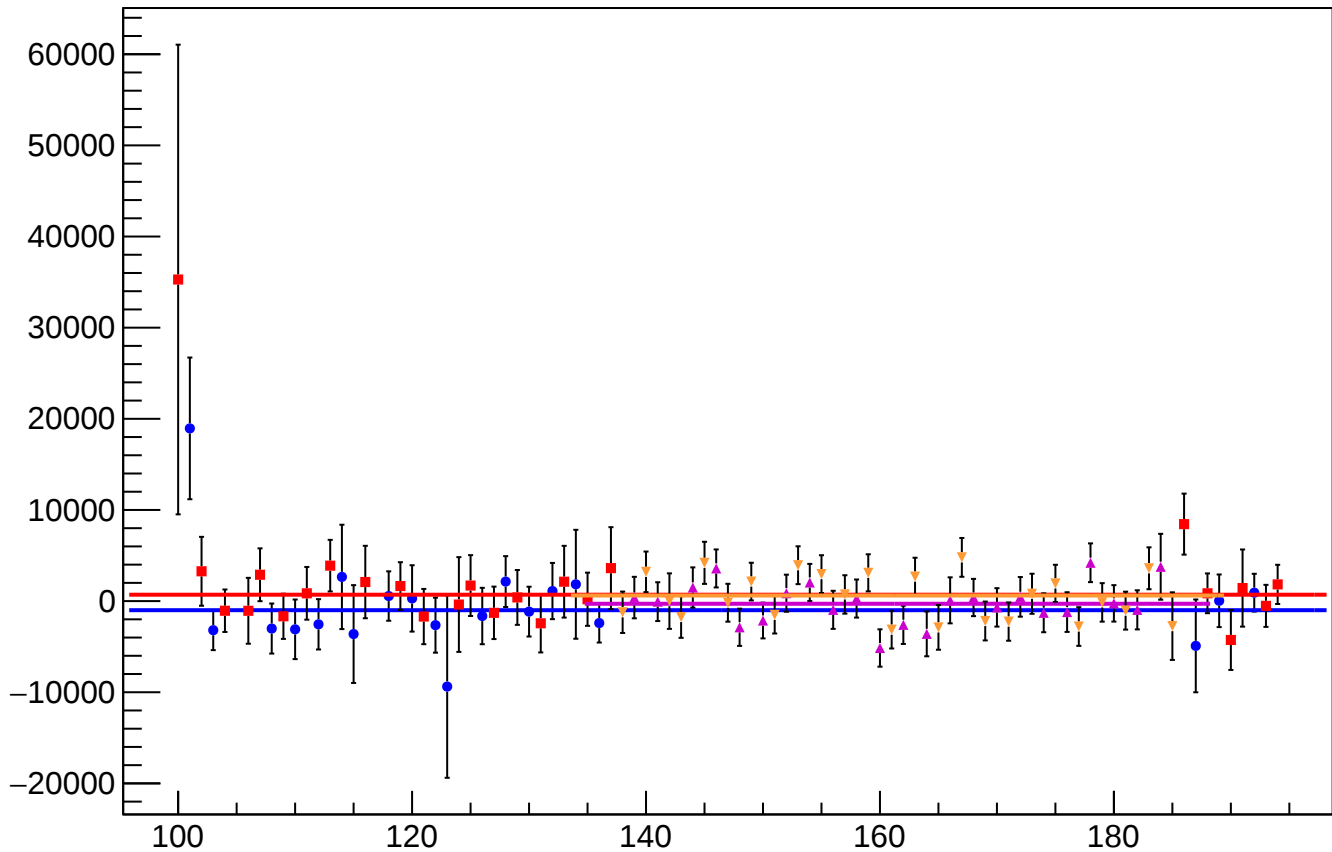
Right: 4691.285 $\pm$ 0.817 χ^2/NDF : 3557059.0/44

In: 5161.978 $\pm$ 0.739 χ^2/NDF : 2118751.7/42

Out: 5007.198 $\pm$ 0.686 χ^2/NDF : 3601742.7/49

All: 5078.816 $\pm$ 0.502 χ^2/NDF : 5744082.5/92

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -998.340 $\pm$ 691.844 χ^2 /NDF: 15.0/19

Left Out: 612.314 $\pm$ 438.264 χ^2 /NDF:32.7/24

Right Out: 700.940 $\pm$ 606.747 χ^2 /NDF: 17.1/24

Left In: -293.009 $\pm$ 449.575 χ^2 /NDF:23.6/22

Left: 171.185 $\pm$ 313.822 χ^2 /NDF: 58.4/47

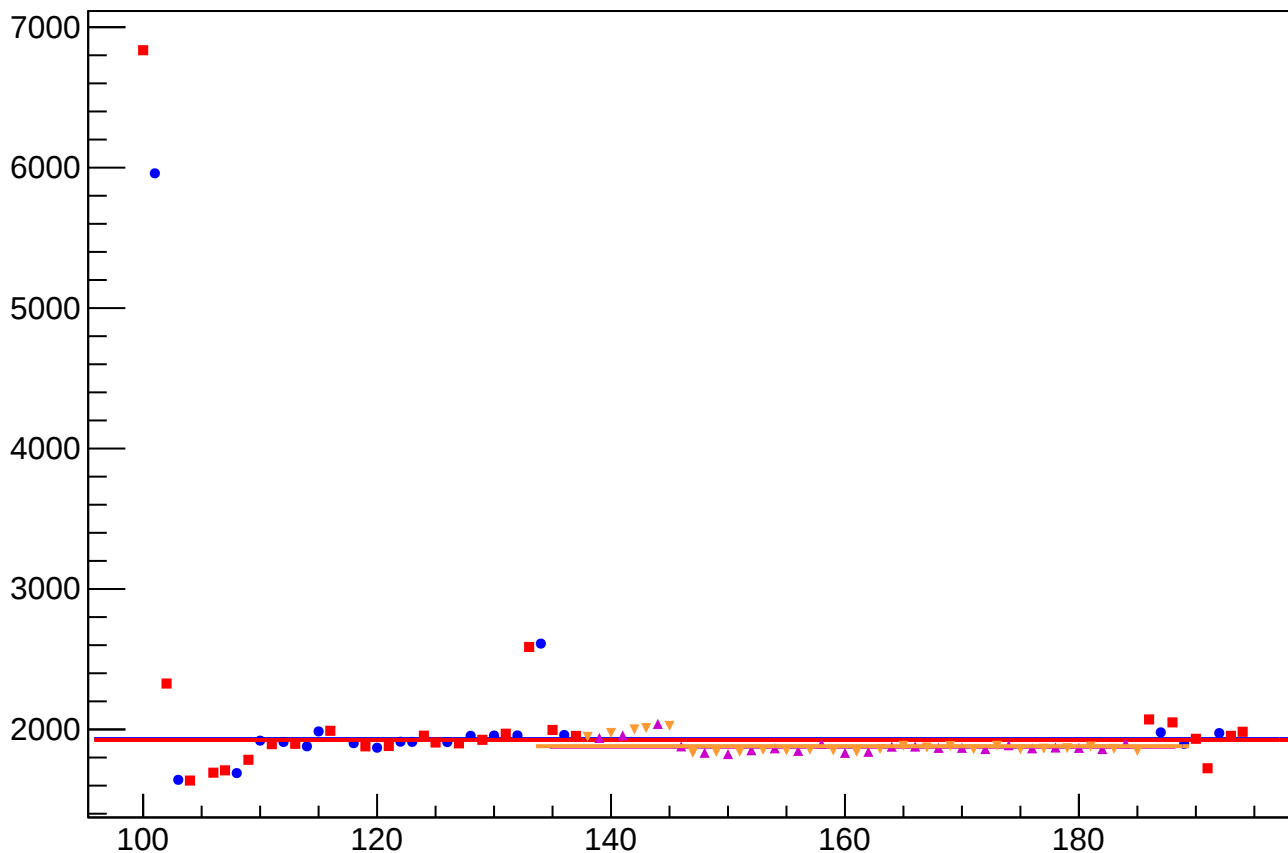
Right: -37.823 $\pm$ 456.171 χ^2 /NDF: 35.5/44

In: -502.420 $\pm$ 376.974 χ^2 /NDF:39.3/42

Out: 642.700 $\pm$ 355.275 χ^2 /NDF:49.8/49

All: 104.044 $\pm$ 258.549 χ^2 /NDF: 94.0/92

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1931.251+/-0.489 χ^2/NDF : 617282.7/19

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1925.185+/-0.428 χ^2/NDF : 230051.0/24

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

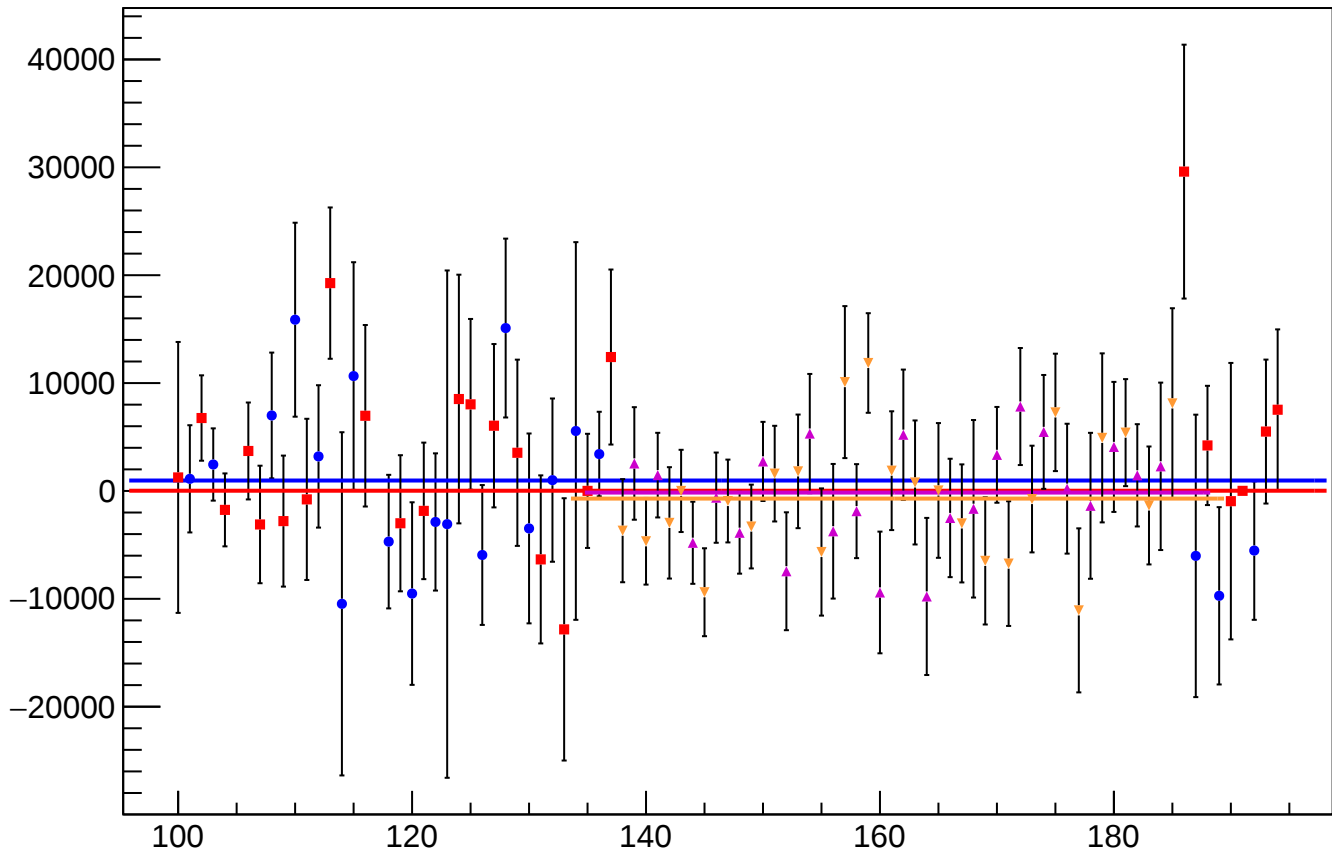
Right: 1927.818+/-0.322 χ^2/NDF : 847420.7/44

In: 1892.886+/-0.267 χ^2/NDF : 646529.9/42

Out: 1896.054+/-0.251 χ^2/NDF : 265751.4/49

All: 1894.565+/-0.183 χ^2/NDF : 912356.2/92

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 967.077 ± 1481.143 $\chi^2/\text{NDF}: 16.0/19$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 20.781 ± 85.828 $\chi^2/\text{NDF}: 28.0/24$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

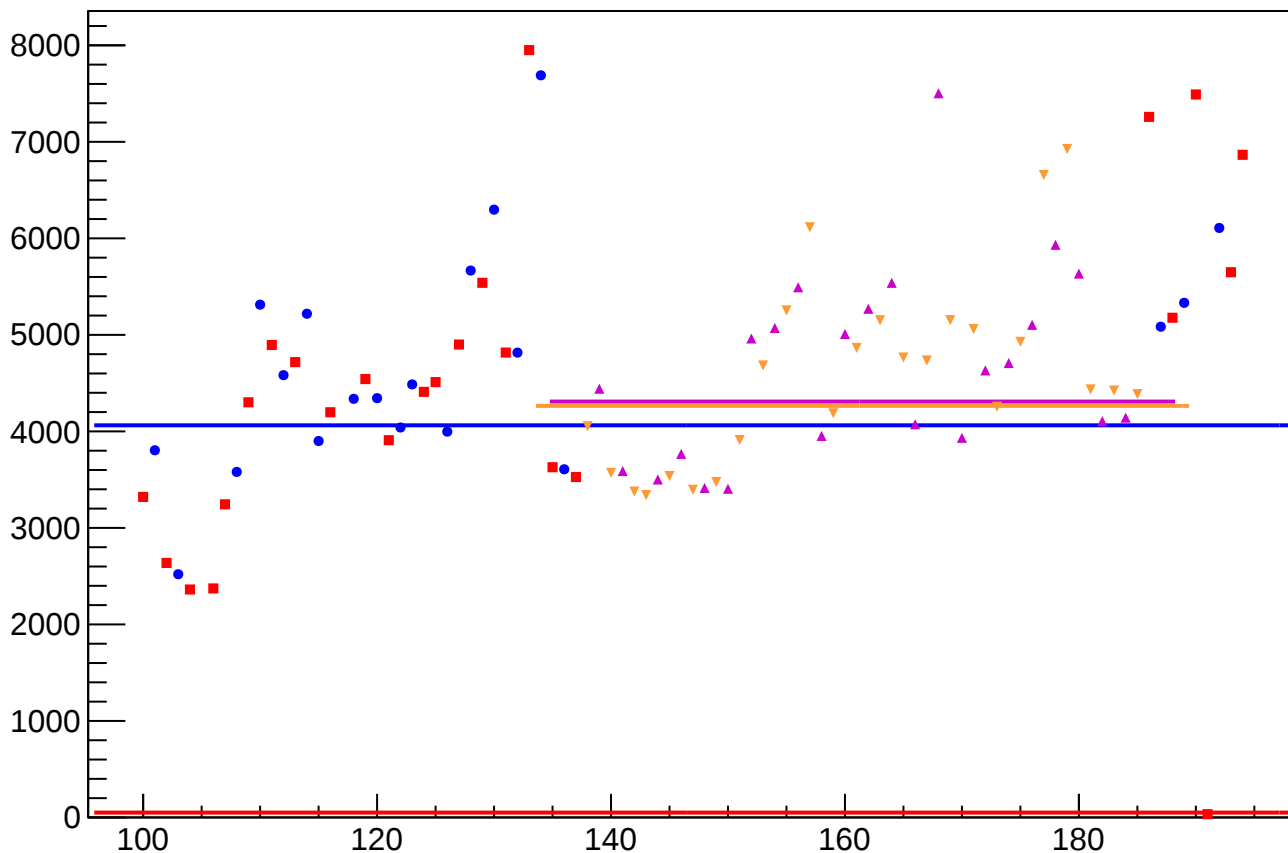
Right: 23.948 ± 85.685 $\chi^2/\text{NDF}: 44.5/44$

In: 225.027 ± 858.573 $\chi^2/\text{NDF}: 33.3/42$

Out: 15.636 ± 85.525 $\chi^2/\text{NDF}: 55.7/49$

All: 17.693 ± 85.104 $\chi^2/\text{NDF}: 89.0/92$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4062.879+/-1.047 χ^2/NDF : 1111685.7/19

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 50.471+/-0.061 χ^2/NDF : 19825186.9/24

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

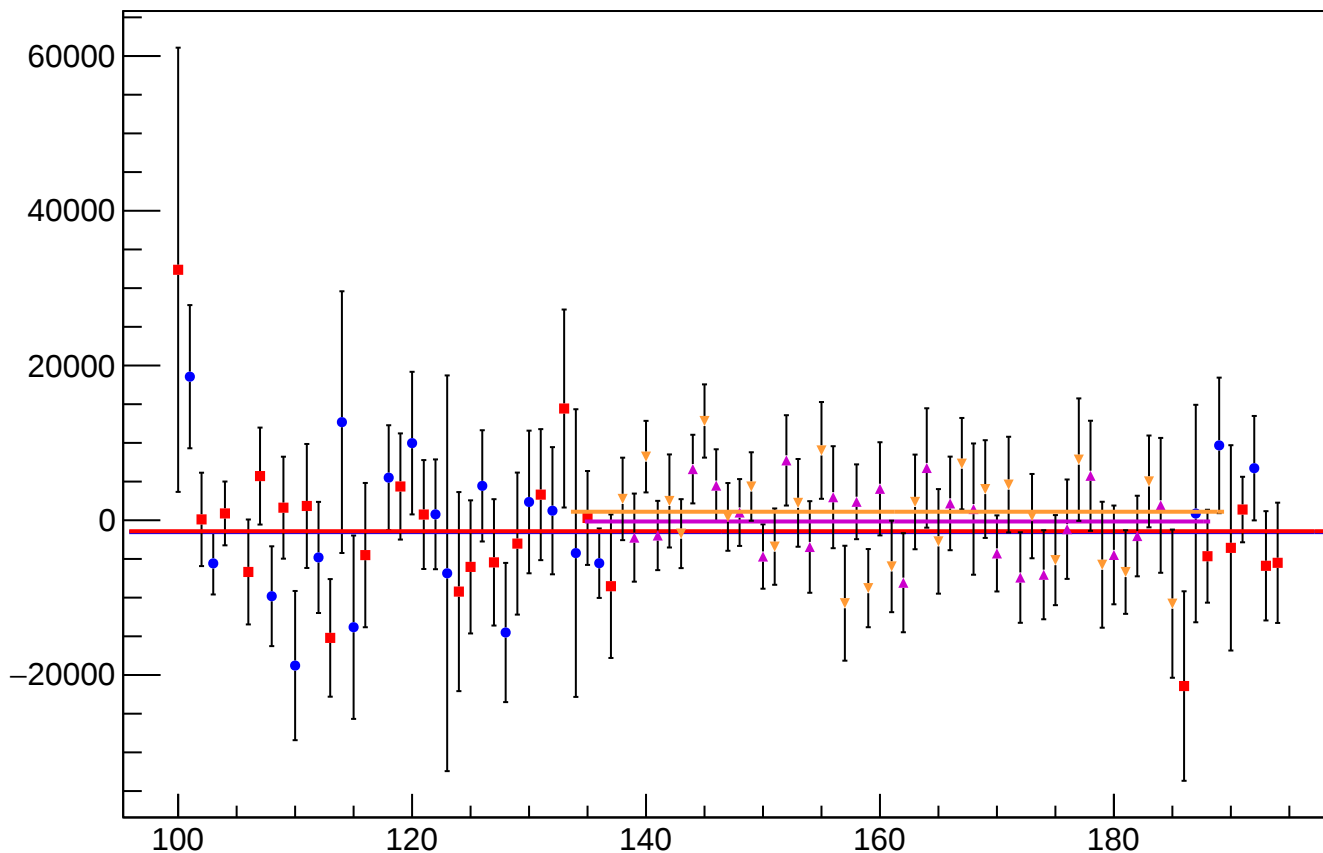
Right: 63.899+/-0.061 χ^2/NDF : 35565054.4/44

In: 4226.322+/-0.607 χ^2/NDF : 2453497.5/42

Out: 80.230+/-0.060 χ^2/NDF : 55226995.8/49

All: 120.966+/-0.060 χ^2/NDF : 103861705.7/99

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1533.719+/-1704.608 χ^2/NDF : 22.4/19

Left Out: 1102.204+/-1126.663 χ^2/NDF : 28.6/24

Right Out: -1416.581+/-1441.450 χ^2/NDF : 15.8/24

Left In: -158.683+/-1161.507 χ^2/NDF : 15.5/22

Left: 490.957+/-808.709 χ^2/NDF : 44.7/47

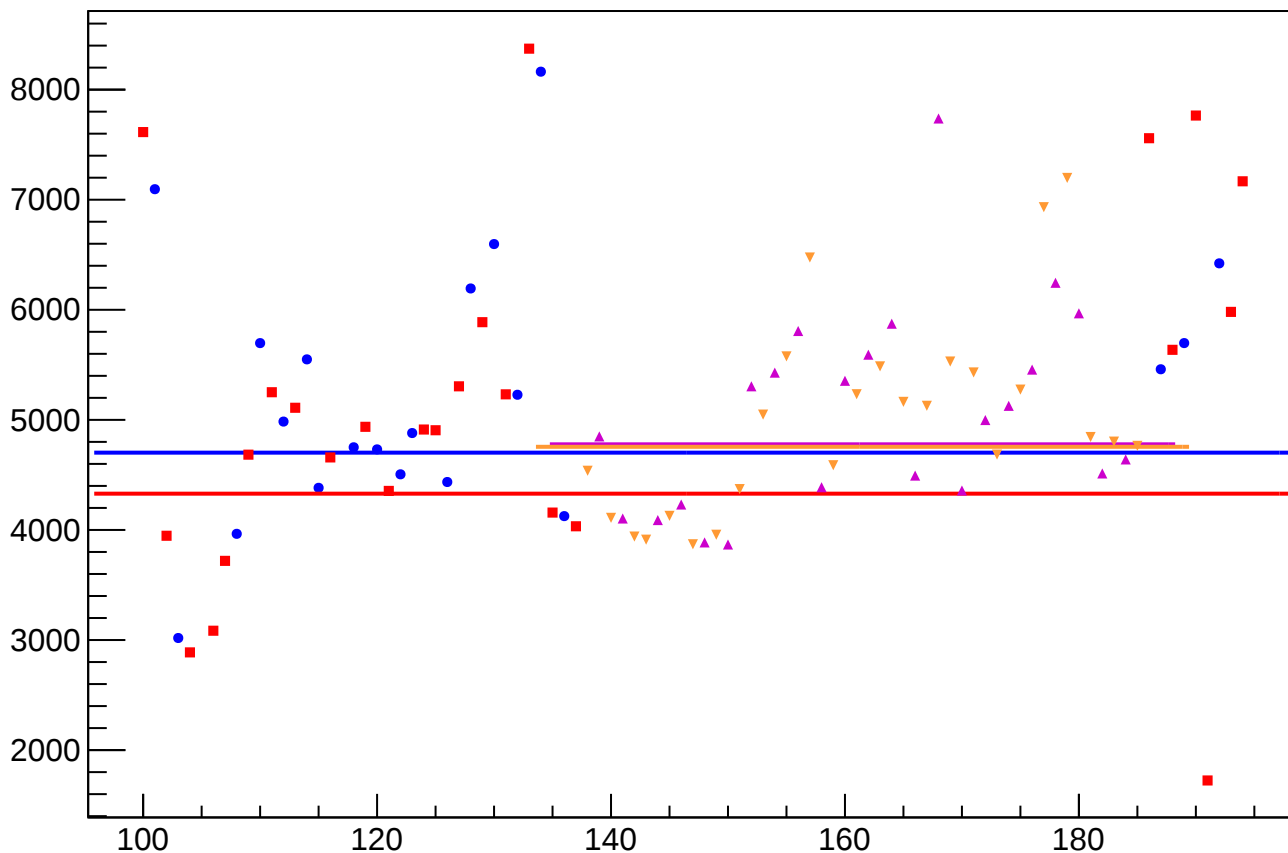
Right: -1465.419+/-1100.673 χ^2/NDF : 38.2/44

In: -594.676+/-959.859 χ^2/NDF : 38.4/42

Out: 146.982+/-887.680 χ^2/NDF : 46.2/49

All: -194.916+/-651.709 χ^2/NDF : 84.9/92

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4702.207+/-1.205 χ^2/NDF : 957696.6/19

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 4329.602+/-1.015 χ^2/NDF : 2275269.5/24

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

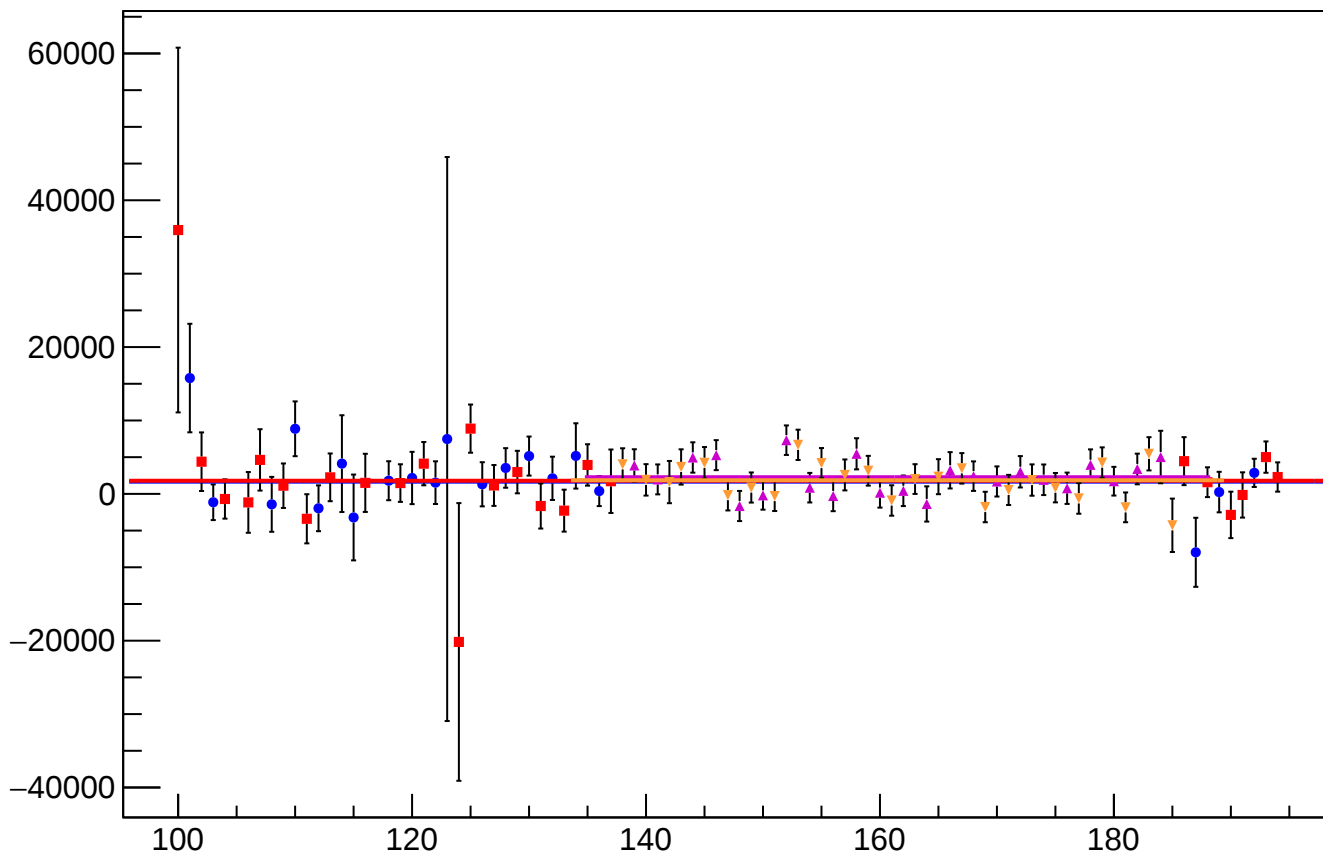
Right: 4484.220+/-0.776 χ^2/NDF : 3288872.1/44

In: 4753.852+/-0.679 χ^2/NDF : 1910676.1/42

Out: 4593.097+/-0.627 χ^2/NDF : 3337467.7/49

All: 4667.081+/-0.460 χ^2/NDF : 5278423.7/92

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1667.126+/-695.591 χ^2/NDF : 19.7/19

Left Out: 1856.570+/-430.977 χ^2/NDF : 30.0/24

Right Out: 1788.312+/-607.796 χ^2/NDF : 23.0/24

Left In: 2268.464+/-441.710 χ^2/NDF : 26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

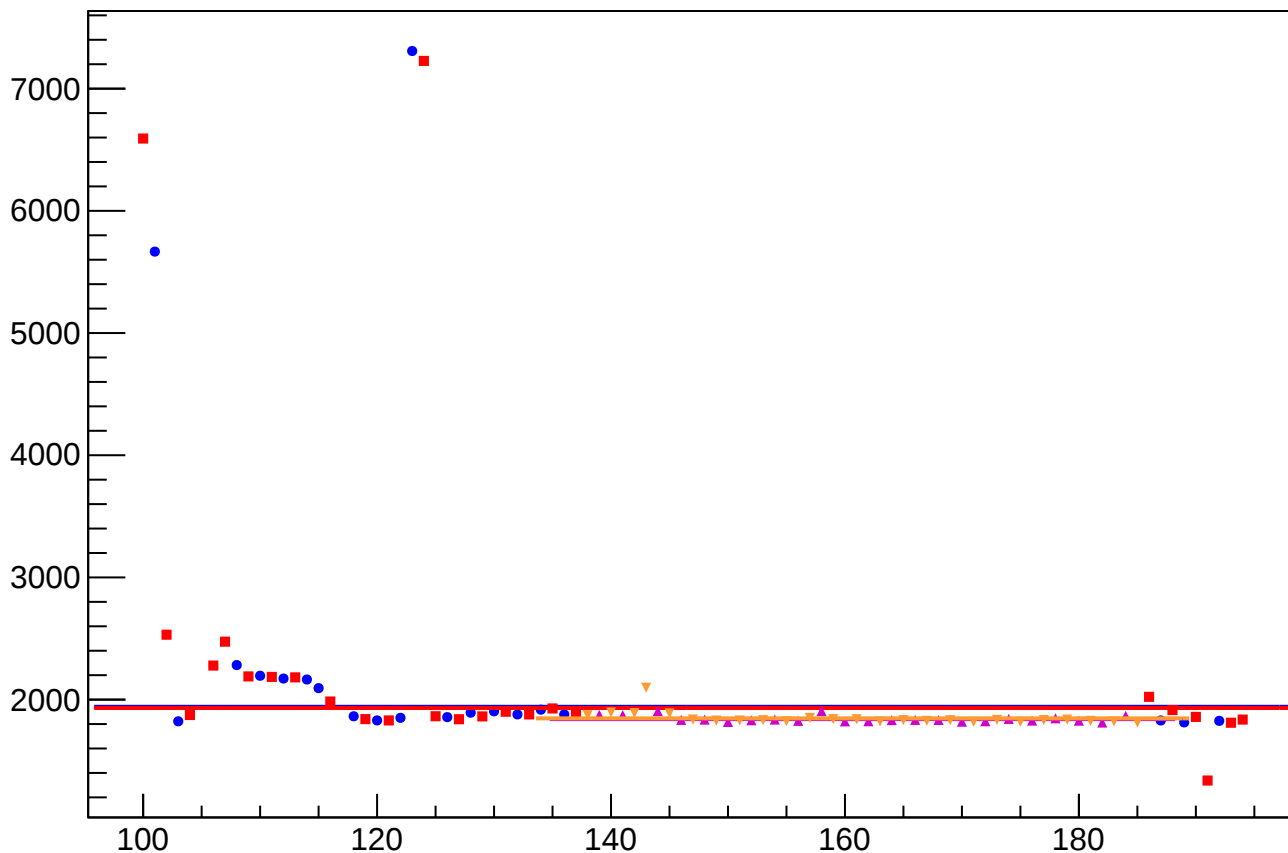
Right: 1735.845+/-457.689 χ^2/NDF : 42.7/44

In: 2095.661+/-372.882 χ^2/NDF : 47.1/42

Out: 1833.733+/-351.563 χ^2/NDF : 52.9/49

All: 1956.996+/-255.798 χ^2/NDF : 100.3/92

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1941.124+/-0.492 χ^2/NDF : 615899.7/19

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1931.735+/-0.430 χ^2/NDF : 457390.0/24

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

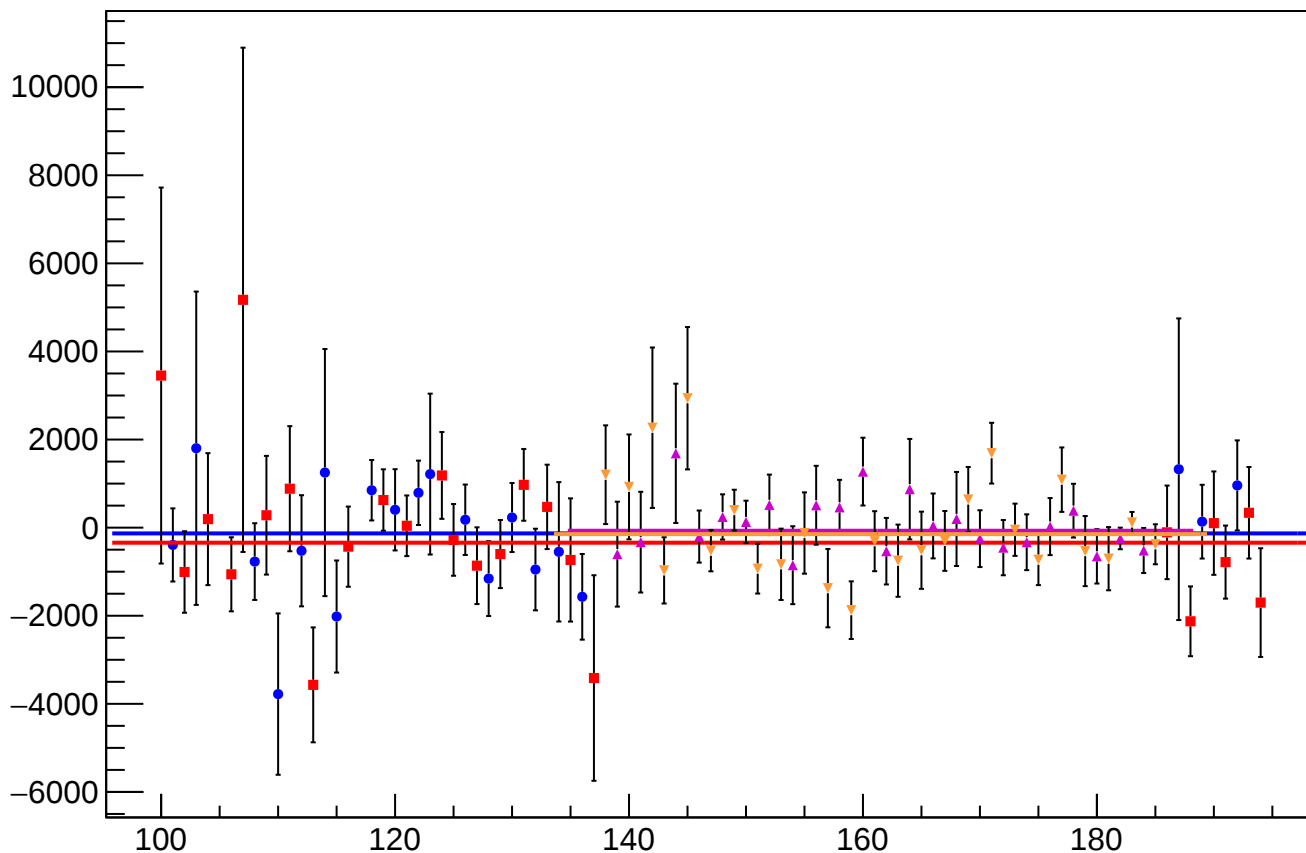
Right: 1935.800+/-0.324 χ^2/NDF : 1073496.3/44

In: 1869.445+/-0.264 χ^2/NDF : 652440.9/42

Out: 1875.085+/-0.249 χ^2/NDF : 510803.2/49

All: 1872.431+/-0.181 χ^2/NDF : 1163486.3/92

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -130.842 $\pm$ 225.561 χ^2 /NDF: 18.2/19

Left Out: -146.999 $\pm$ 121.984 χ^2 /NDF:37.7/24

Right Out: -341.644 $\pm$ 199.260 χ^2 /NDF: 27.6/24

Left In: -70.340 $\pm$ 126.373 χ^2 /NDF:12.3/22

Left: -110.024 $\pm$ 87.766 χ^2 /NDF: 50.1/47

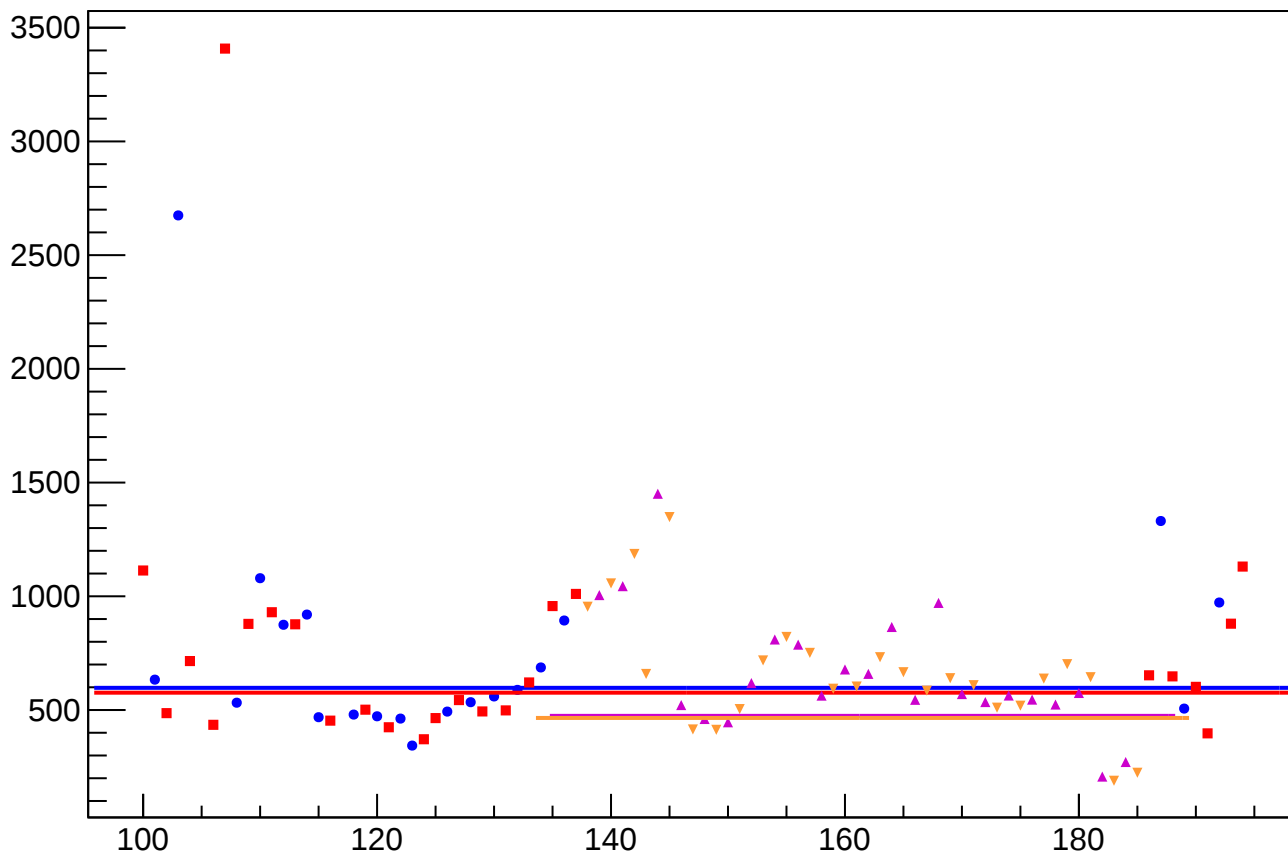
Right: -249.244 $\pm$ 149.335 χ^2 /NDF: 46.3/44

In: -84.794 $\pm$ 110.249 χ^2 /NDF:30.6/42

Out: -200.060 $\pm$ 104.037 χ^2 /NDF:66.0/49

All: -145.766 $\pm$ 75.666 χ^2 /NDF: 97.1/92

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 597.513 $\pm$ 0.159 χ^2/NDF : 1808269.8/19

Left Out: 465.080 $\pm$ 0.086 χ^2/NDF : 7086137.6/24

Right Out: 576.191 $\pm$ 0.141 χ^2/NDF : 2186768.6/24

Left In: 474.263 $\pm$ 0.089 χ^2/NDF : 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2/NDF : 13264703.6/47

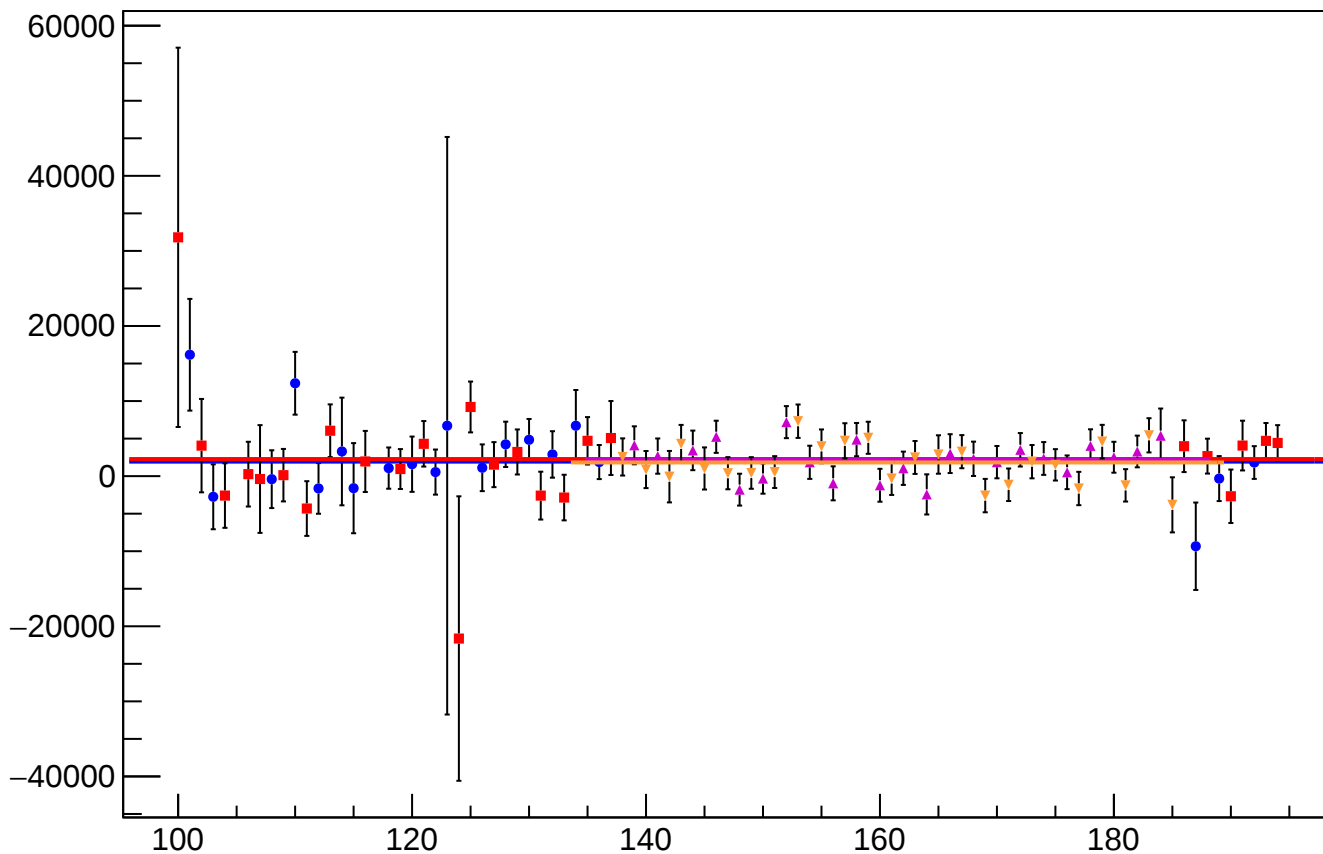
Right: 585.537 $\pm$ 0.106 χ^2/NDF : 4005075.9/44

In: 503.707 $\pm$ 0.078 χ^2/NDF : 8435853.3/42

Out: 495.370 $\pm$ 0.074 χ^2/NDF : 9725255.7/49

All: 499.297 $\pm$ 0.054 χ^2/NDF : 18167159.4/92

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1936.718 $\pm$ 770.239 χ^2 /NDF: 20.4/19

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 2274.877 $\pm$ 680.638 χ^2 /NDF: 25.0/24

Left In: 2208.114 $\pm$ 474.050 χ^2 /NDF:25.3/22

Left: 2011.435 $\pm$ 331.116 χ^2 /NDF: 57.8/47

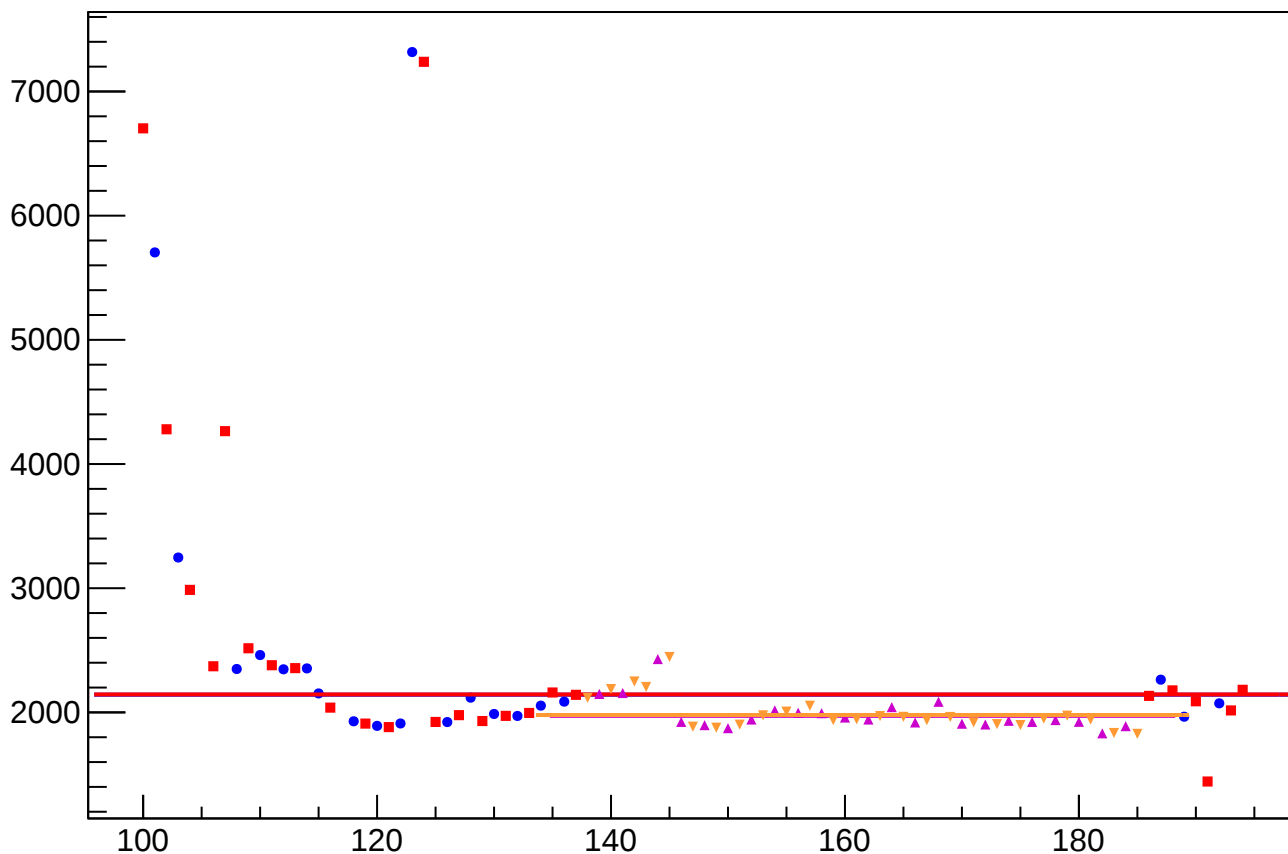
Right: 2126.602 $\pm$ 510.034 χ^2 /NDF: 45.6/44

In: 2133.554 $\pm$ 403.715 χ^2 /NDF:45.9/42

Out: 1966.550 $\pm$ 382.650 χ^2 /NDF:57.4/49

All: 2045.582 $\pm$ 277.723 χ^2 /NDF: 103.4/92

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2142.498 $\pm$ 0.545 χ^2 /NDF: 719122.4/19

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2144.591 $\pm$ 0.481 χ^2 /NDF: 905142.0/24

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF:116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

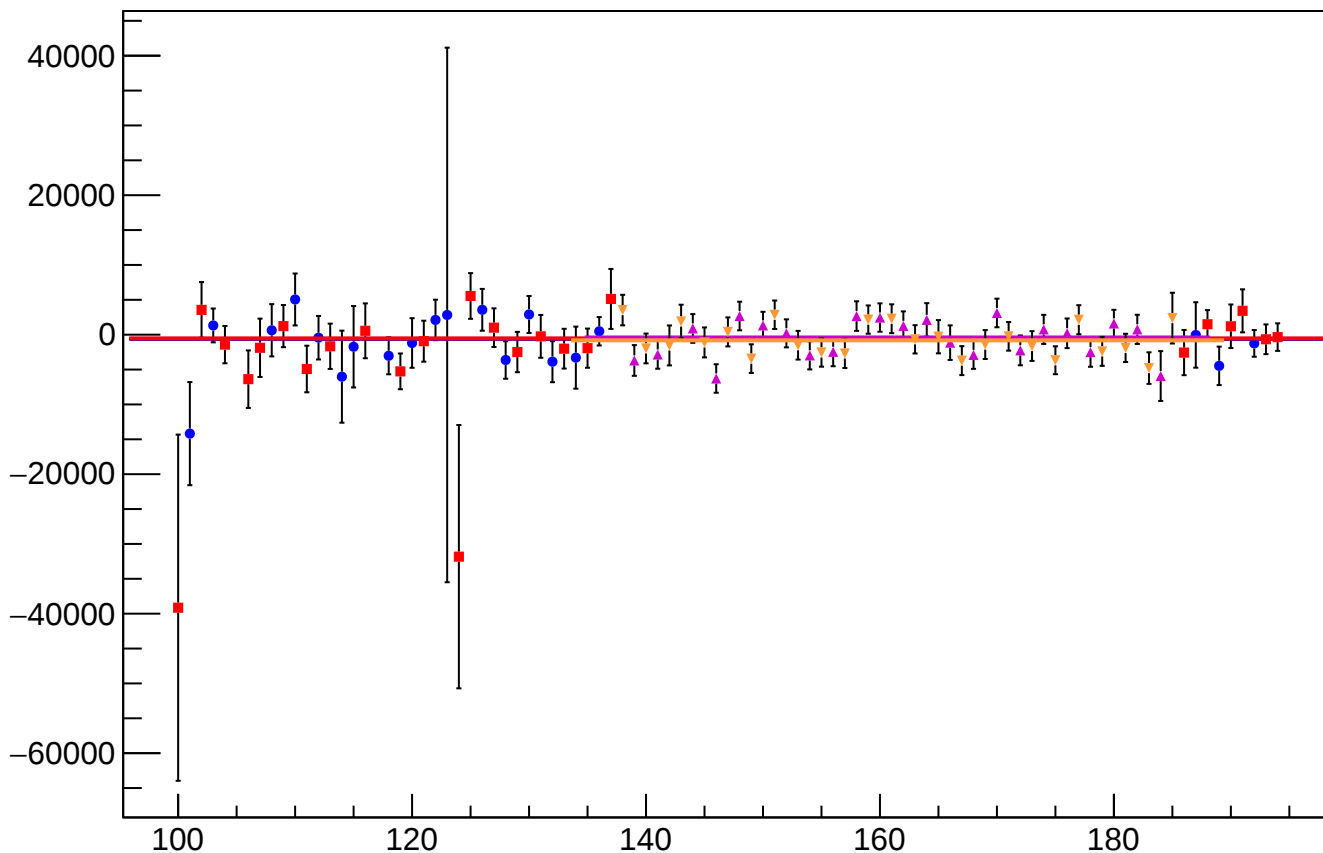
Right: 2143.673 $\pm$ 0.361 χ^2 /NDF: 1624272.7/44

In: 2018.961 $\pm$ 0.285 χ^2 /NDF:906511.5/42

Out: 2031.335 $\pm$ 0.271 χ^2 /NDF:1125407.6/49

All: 2025.479 $\pm$ 0.196 χ^2 /NDF: 2032908.9/92

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -601.705+/-694.081 χ^2/NDF : 17.8/19

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -537.036+/-605.736 χ^2/NDF : 24.0/24

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

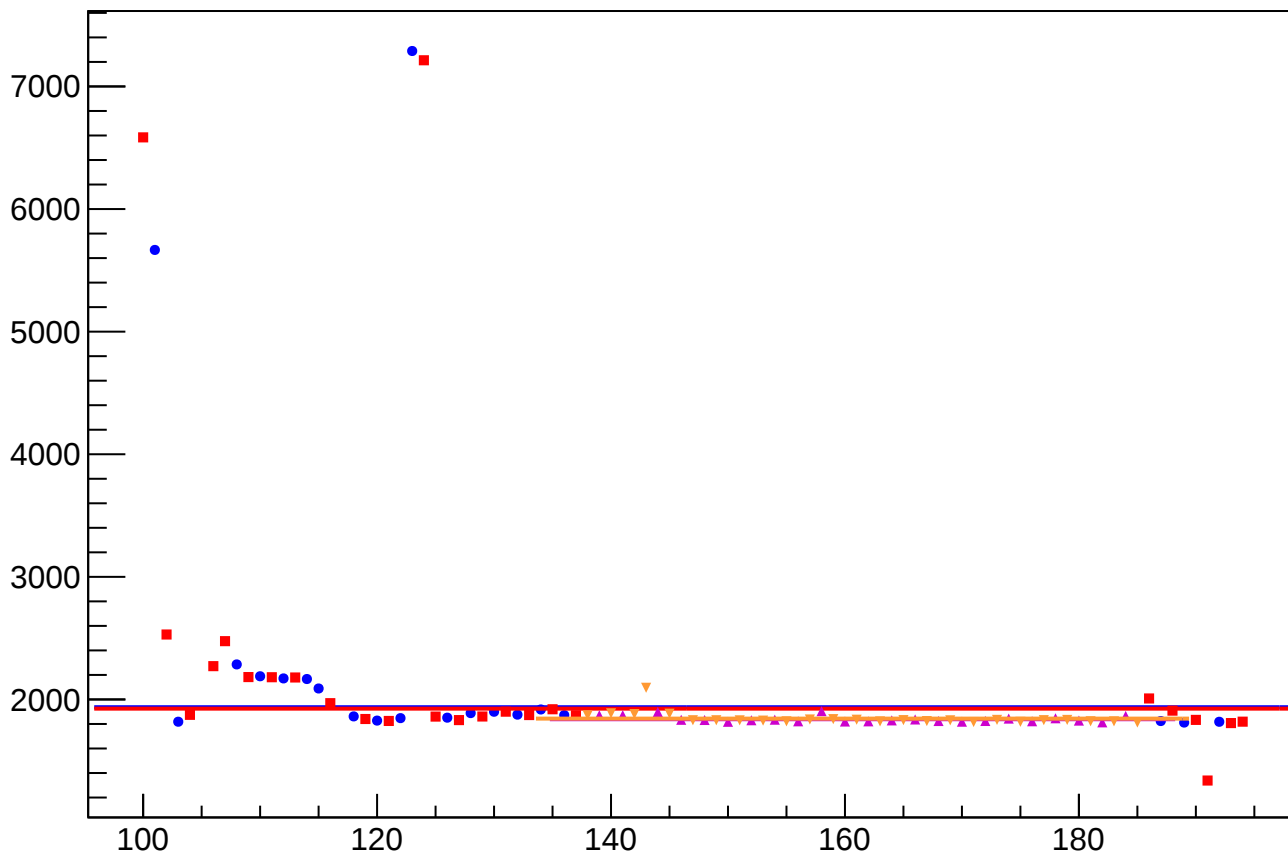
Right: -564.995+/-456.379 χ^2/NDF : 41.8/44

In: -457.199+/-372.369 χ^2/NDF : 52.3/42

Out: -717.411+/-350.799 χ^2/NDF : 52.0/49

All: -595.060+/-255.338 χ^2/NDF : 104.5/92

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1936.694+/-0.491 χ^2/NDF : 618587.5/19

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1925.094+/-0.428 χ^2/NDF : 458630.0/24

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

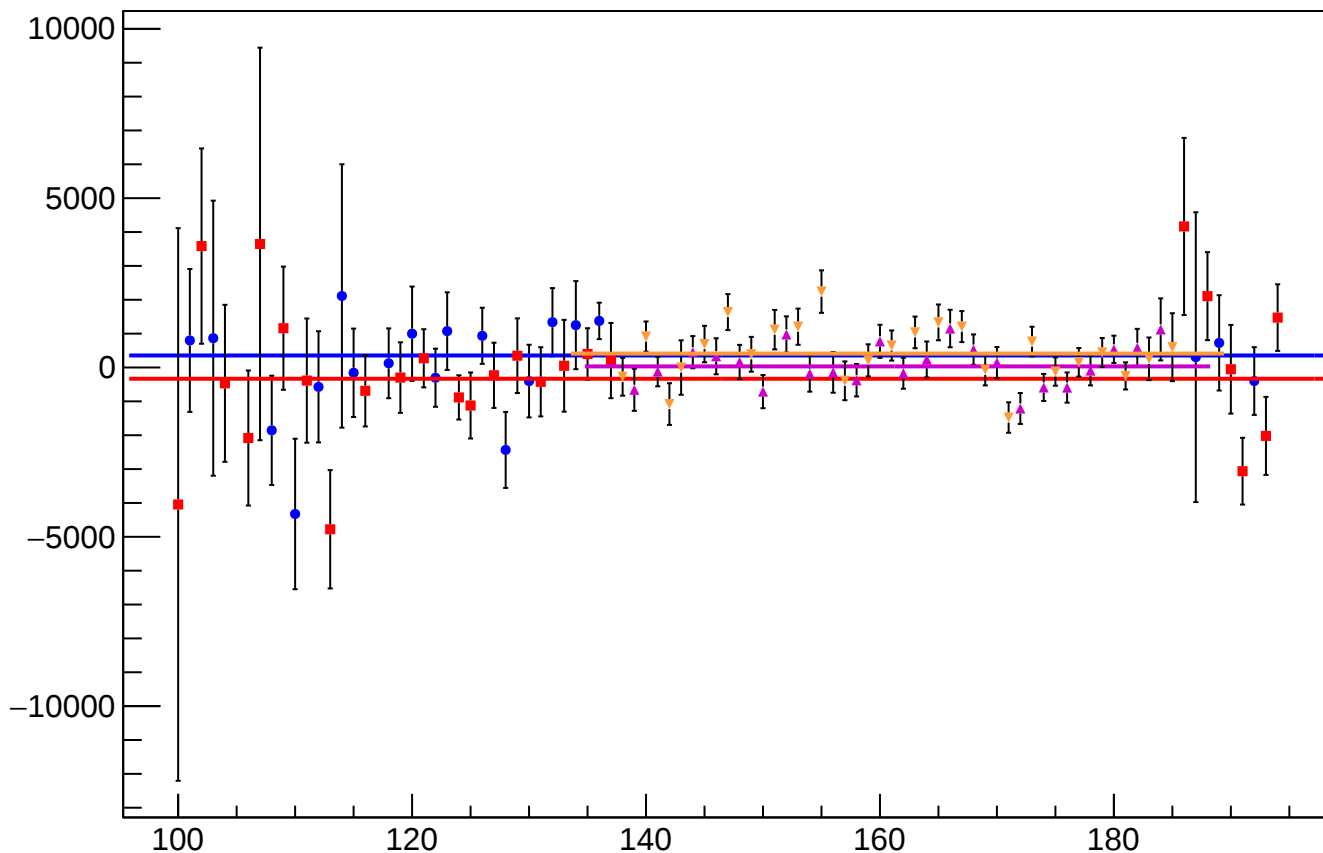
Right: 1930.109+/-0.323 χ^2/NDF : 1077534.6/44

In: 1866.842+/-0.263 χ^2/NDF : 653366.0/42

Out: 1871.030+/-0.248 χ^2/NDF : 509469.8/49

All: 1869.061+/-0.181 χ^2/NDF : 1162969.8/92

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 354.872 $\pm$ 256.632 χ^2 /NDF: 21.1/19

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -332.543 $\pm$ 234.542 χ^2 /NDF: 33.8/24

Left In: 32.456 $\pm$ 102.403 χ^2 /NDF:32.7/22

Left: 225.398 $\pm$ 71.712 χ^2 /NDF: 100.9/47

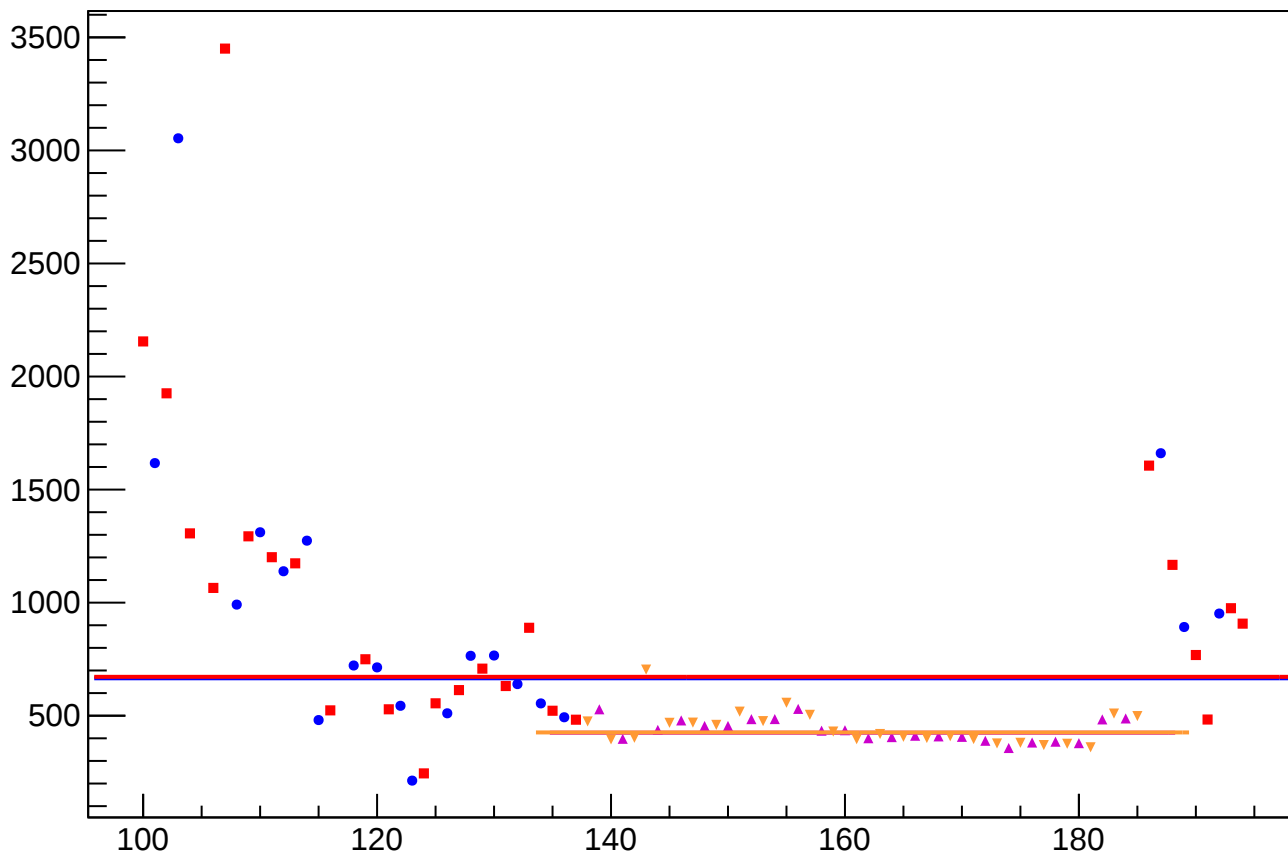
Right: -19.689 $\pm$ 173.130 χ^2 /NDF: 58.8/44

In: 76.741 $\pm$ 95.111 χ^2 /NDF:55.2/42

Out: 295.804 $\pm$ 92.342 χ^2 /NDF:103.5/49

All: 189.507 $\pm$ 66.253 χ^2 /NDF: 161.4/92

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 665.504 $\pm$ 0.181 χ^2 /NDF: 2612921.0/19

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 671.918 $\pm$ 0.166 χ^2 /NDF: 3768670.3/24

Left In: 424.639 $\pm$ 0.072 χ^2 /NDF: 391611.2/22

Left: 425.346 $\pm$ 0.051 χ^2 /NDF: 1124871.5/47

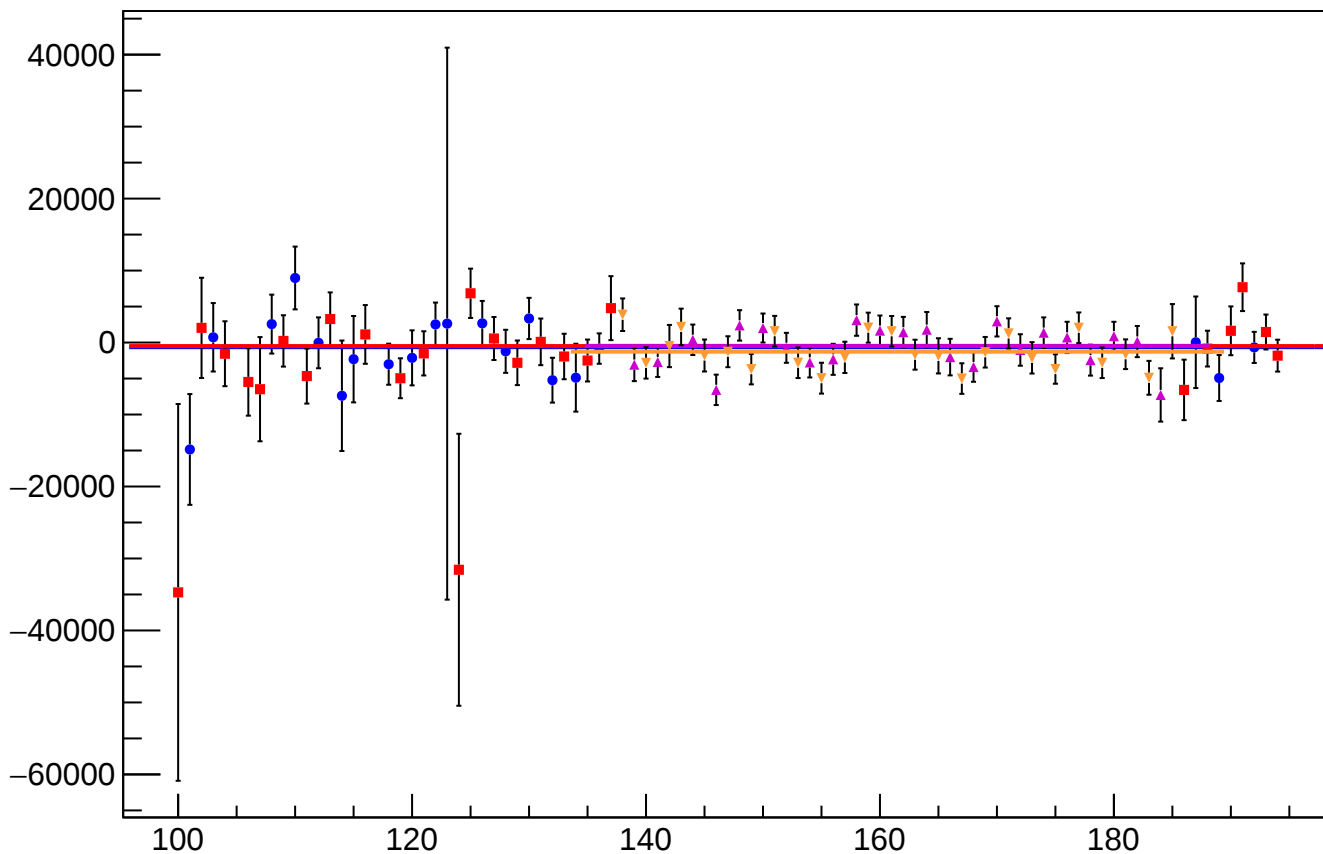
Right: 668.999 $\pm$ 0.122 χ^2 /NDF: 6382271.9/44

In: 457.722 $\pm$ 0.067 χ^2 /NDF: 4524346.6/42

Out: 464.143 $\pm$ 0.065 χ^2 /NDF: 6359219.6/49

All: 461.027 $\pm$ 0.047 χ^2 /NDF: 10888258.3/92

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -639.648+/-779.655 χ^2/NDF : 19.7/19

Left Out: -1267.885+/-443.219 χ^2/NDF : 30.8/24

Right Out: -488.079+/-691.610 χ^2/NDF : 28.5/24

Left In: -462.599+/-453.947 χ^2/NDF : 32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

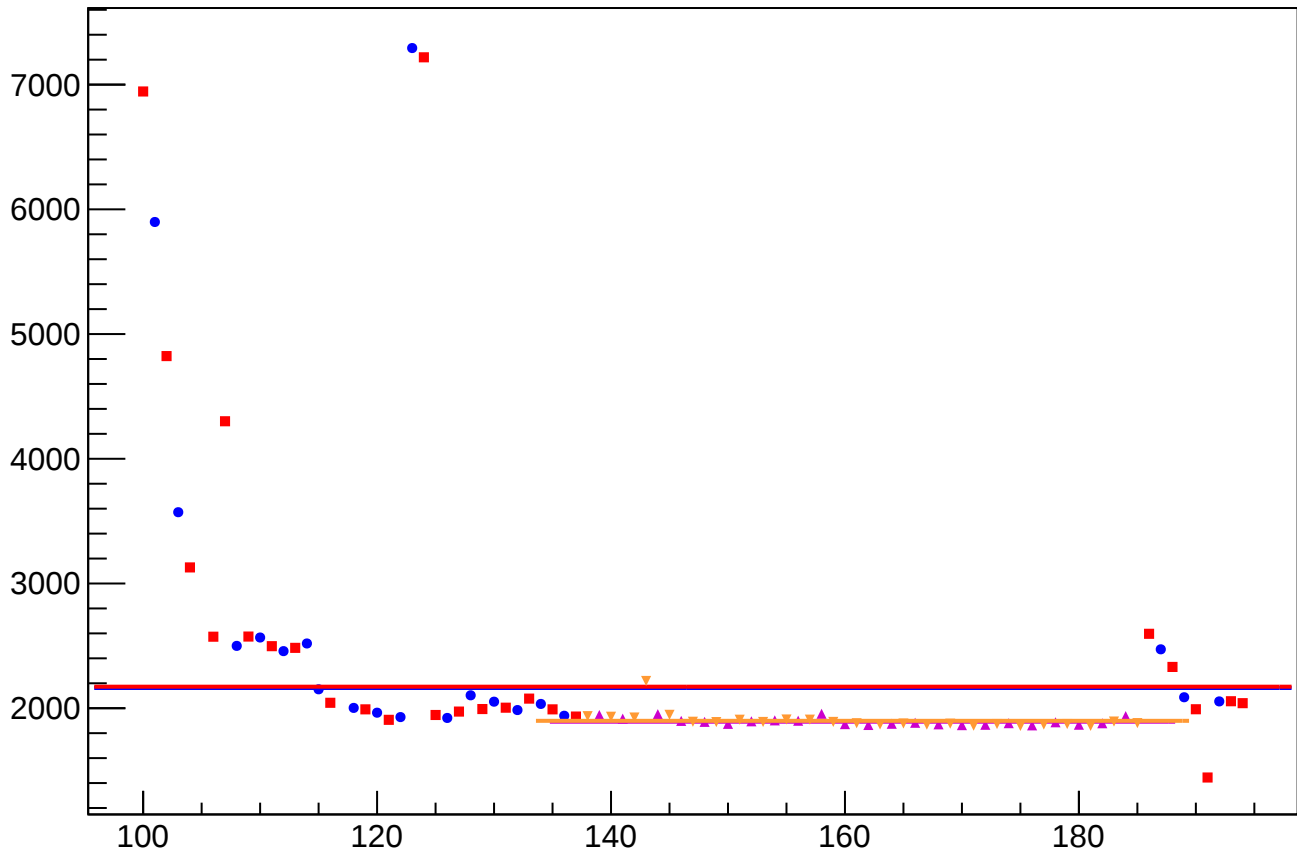
Right: -554.826+/-517.382 χ^2/NDF : 48.3/44

In: -507.424+/-392.296 χ^2/NDF : 52.3/42

Out: -1040.862+/-373.166 χ^2/NDF : 60.3/49

All: -787.466+/-270.378 χ^2/NDF : 113.5/92

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2162.199+/-0.551 χ^2/NDF : 812410.3/19

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2172.652+/-0.489 χ^2/NDF : 1044001.4/24

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

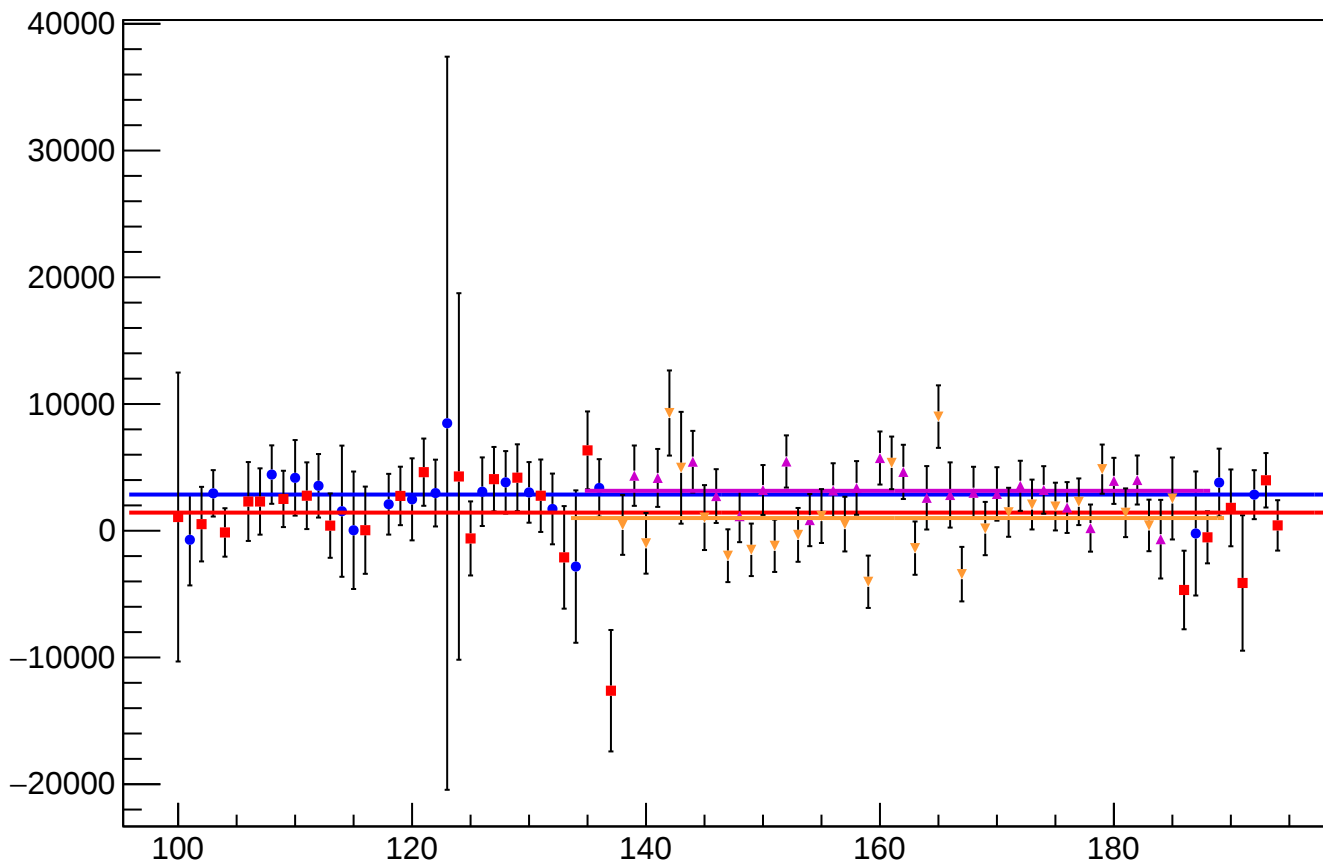
Right: 2168.049+/-0.366 χ^2/NDF : 1856612.8/44

In: 1960.179+/-0.277 χ^2/NDF : 999634.8/42

Out: 1978.640+/-0.264 χ^2/NDF : 1304704.1/49

All: 1969.871+/-0.191 χ^2/NDF : 2306664.3/92

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2855.896 $\pm$ 619.170 χ^2 /NDF: 4.1/19

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1431.054 $\pm$ 552.866 χ^2 /NDF: 25.9/24

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF:11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

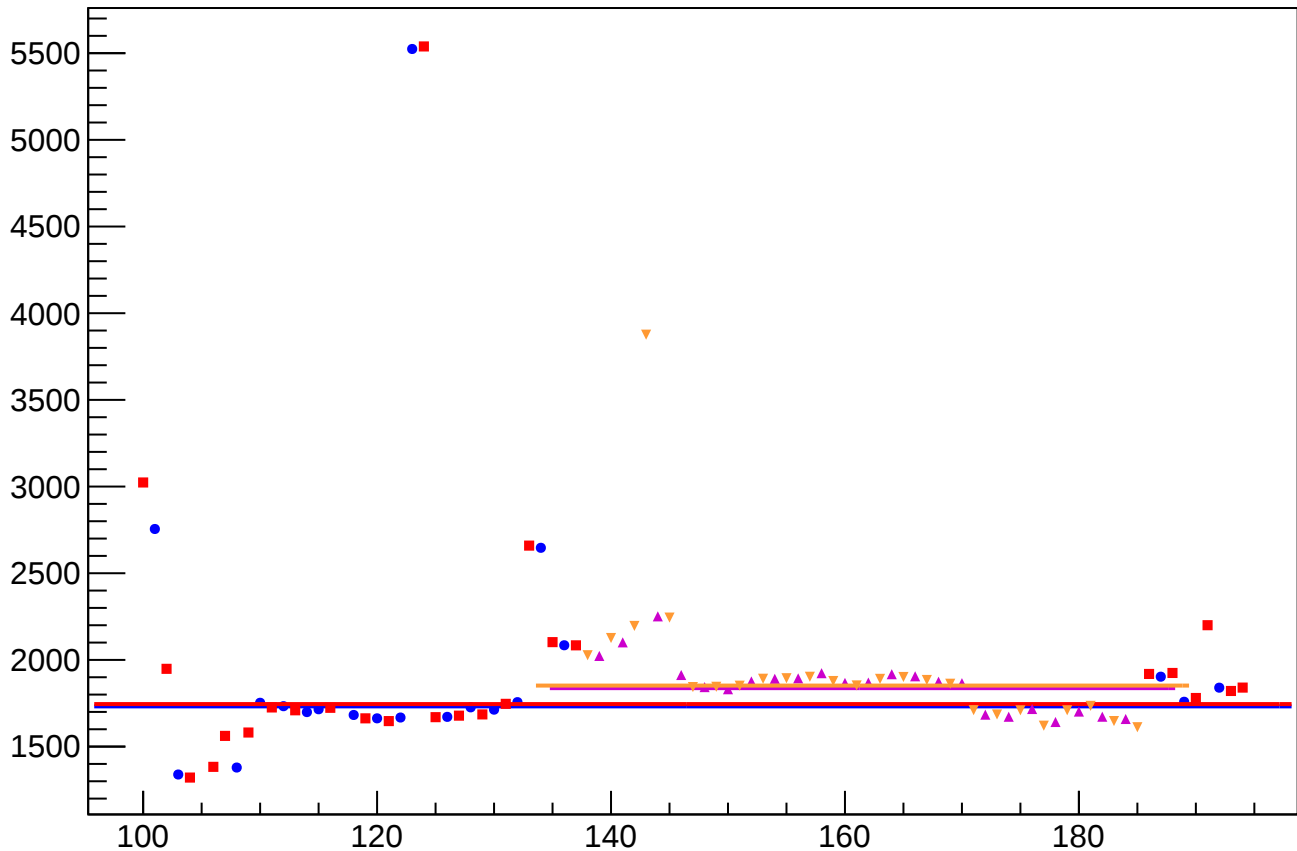
Right: 2063.127 $\pm$ 412.392 χ^2 /NDF: 33.0/44

In: 3051.263 $\pm$ 359.281 χ^2 /NDF:16.1/42

Out: 1165.714 $\pm$ 341.986 χ^2 /NDF:70.9/49

All: 2062.015 $\pm$ 247.710 χ^2 /NDF: 101.5/92

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1731.971+/-0.438 χ^2/NDF : 442650.0/19

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1745.246+/-0.391 χ^2/NDF : 510634.8/24

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

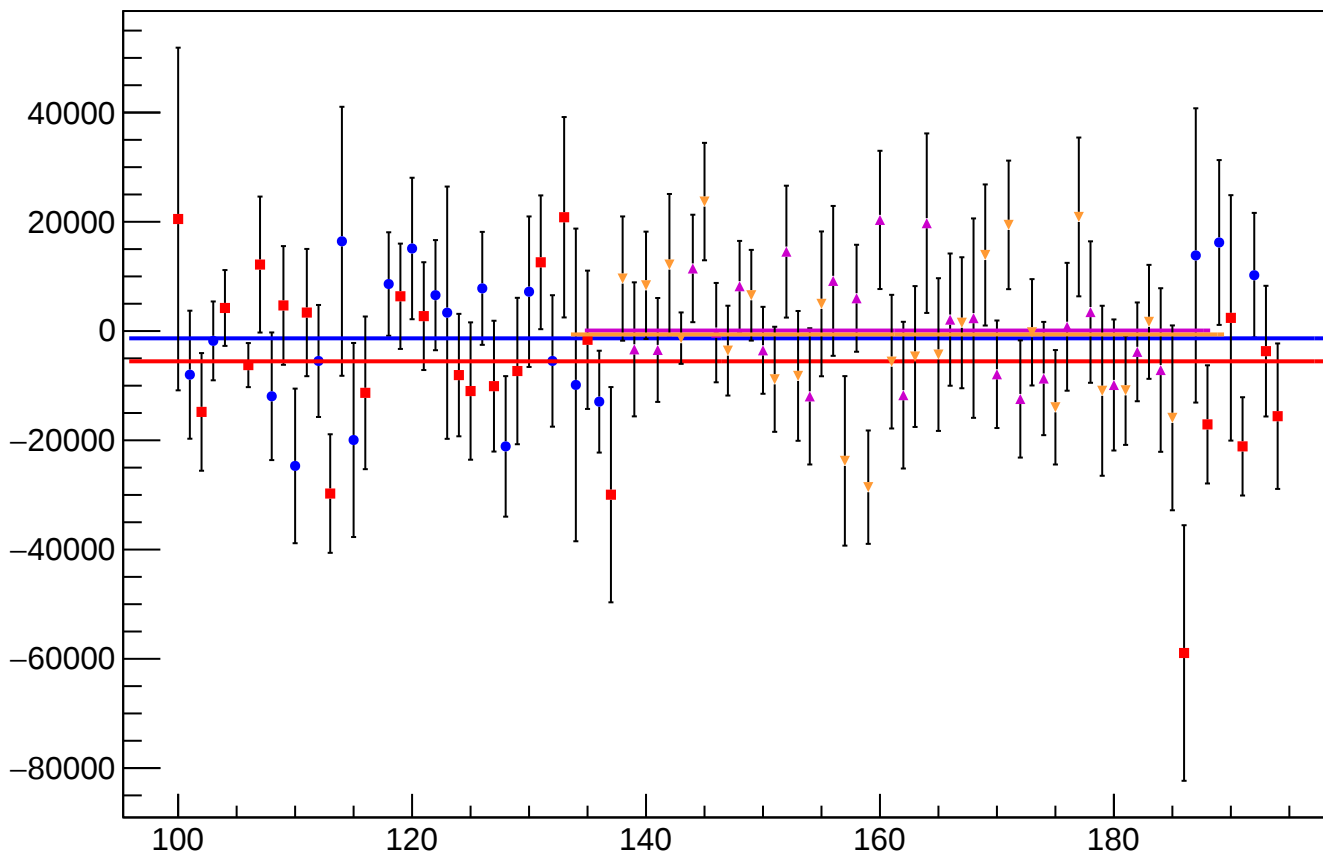
Right: 1739.357+/-0.292 χ^2/NDF : 953796.3/44

In: 1801.736+/-0.254 χ^2/NDF : 681445.0/42

Out: 1811.127+/-0.242 χ^2/NDF : 1205590.5/49

All: 1806.663+/-0.175 χ^2/NDF : 1887752.4/92

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1333.646 ± 2714.379 $\chi^2/\text{NDF}: 17.0/19$

Left Out: -619.372 ± 2069.686 $\chi^2/\text{NDF}: 30.1/24$

Right Out: -5540.501 ± 2078.647 $\chi^2/\text{NDF}: 30.7/24$

Left In: 93.334 ± 2293.826 $\chi^2/\text{NDF}: 14.6/22$

Left: -299.532 ± 1536.638 $\chi^2/\text{NDF}: 44.8/47$

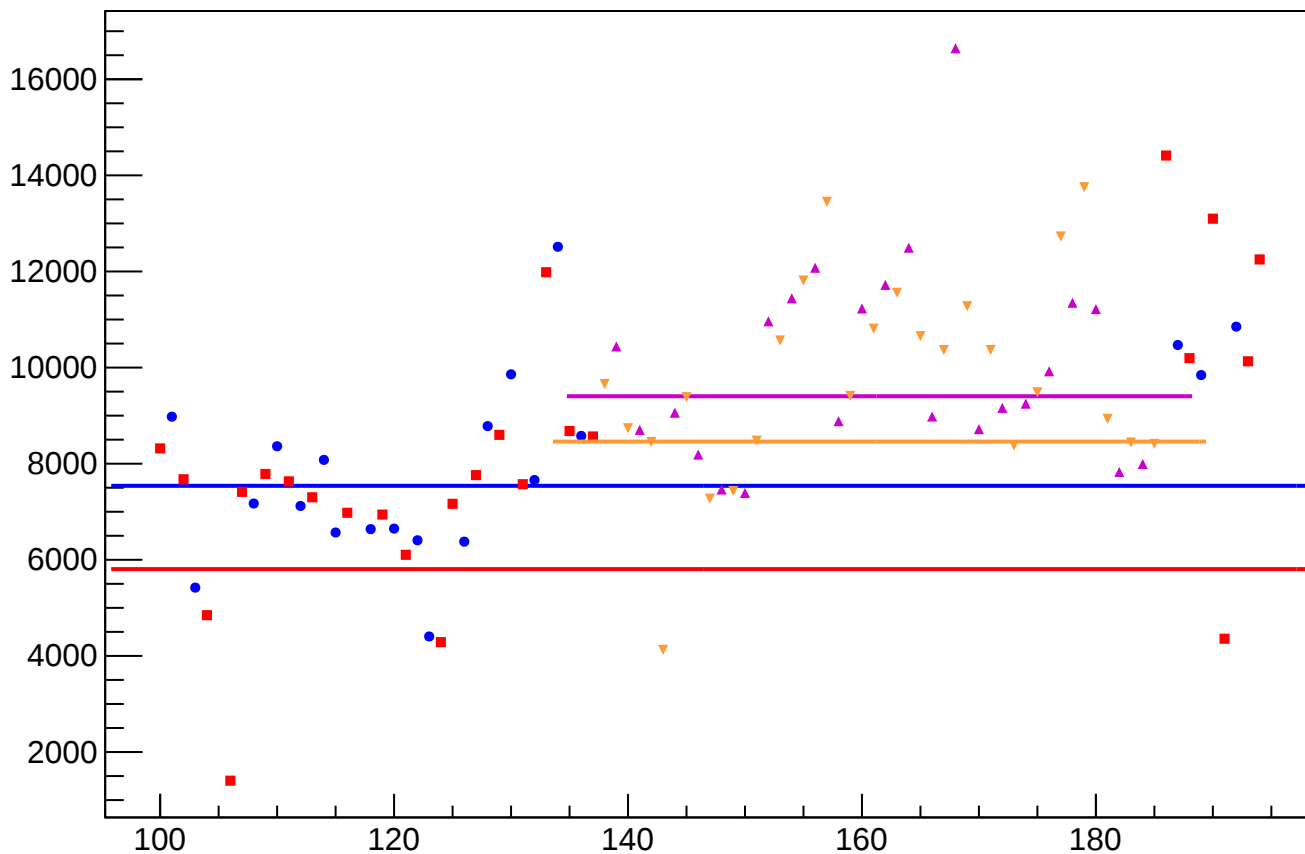
Right: -3985.411 ± 1650.325 $\chi^2/\text{NDF}: 49.2/44$

In: -501.168 ± 1752.016 $\chi^2/\text{NDF}: 31.8/42$

Out: -3069.306 ± 1466.647 $\chi^2/\text{NDF}: 63.6/49$

All: -2011.154 ± 1124.612 $\chi^2/\text{NDF}: 96.7/92$

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 7539.602 $\pm$ 1.919 χ^2 /NDF: 736341.6/19

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF:3087200.5/24

Right Out: 5806.473 $\pm$ 1.470 χ^2 /NDF: 4928148.5/24

Left In: 9403.481 $\pm$ 1.622 χ^2 /NDF:1142646.9/22

Left: 8883.382 $\pm$ 1.087 χ^2 /NDF: 4416376.4/47

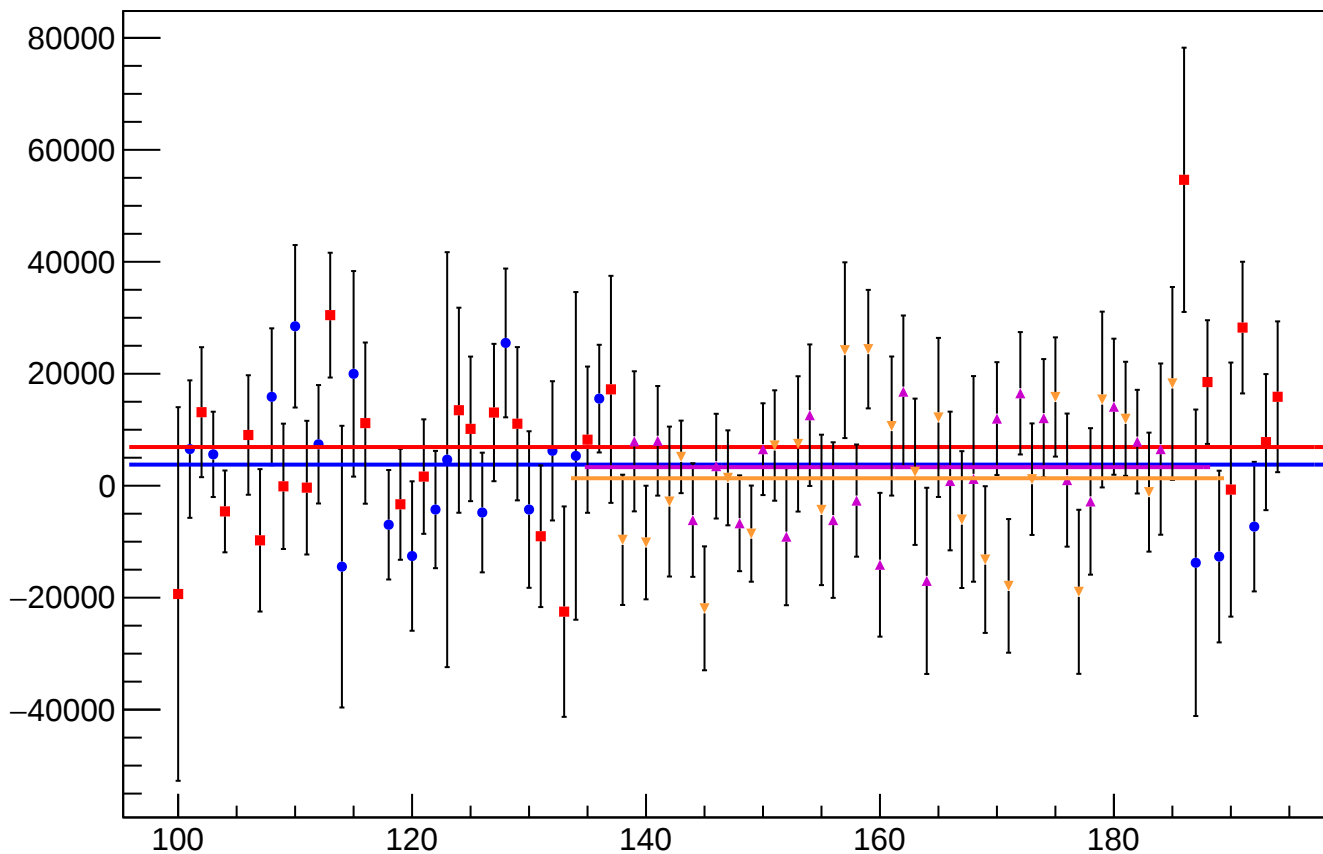
Right: 6447.135 $\pm$ 1.167 χ^2 /NDF: 6178449.0/44

In: 8626.961 $\pm$ 1.239 χ^2 /NDF:2429136.4/42

Out: 7138.948 $\pm$ 1.037 χ^2 /NDF:9651956.9/49

All: 7752.056 $\pm$ 0.795 χ^2 /NDF: 12929339.1/9

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3767.813+/-2820.624 χ^2/NDF : 16.4/19

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 6908.168+/-2505.024 χ^2/NDF : 25.7/24

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

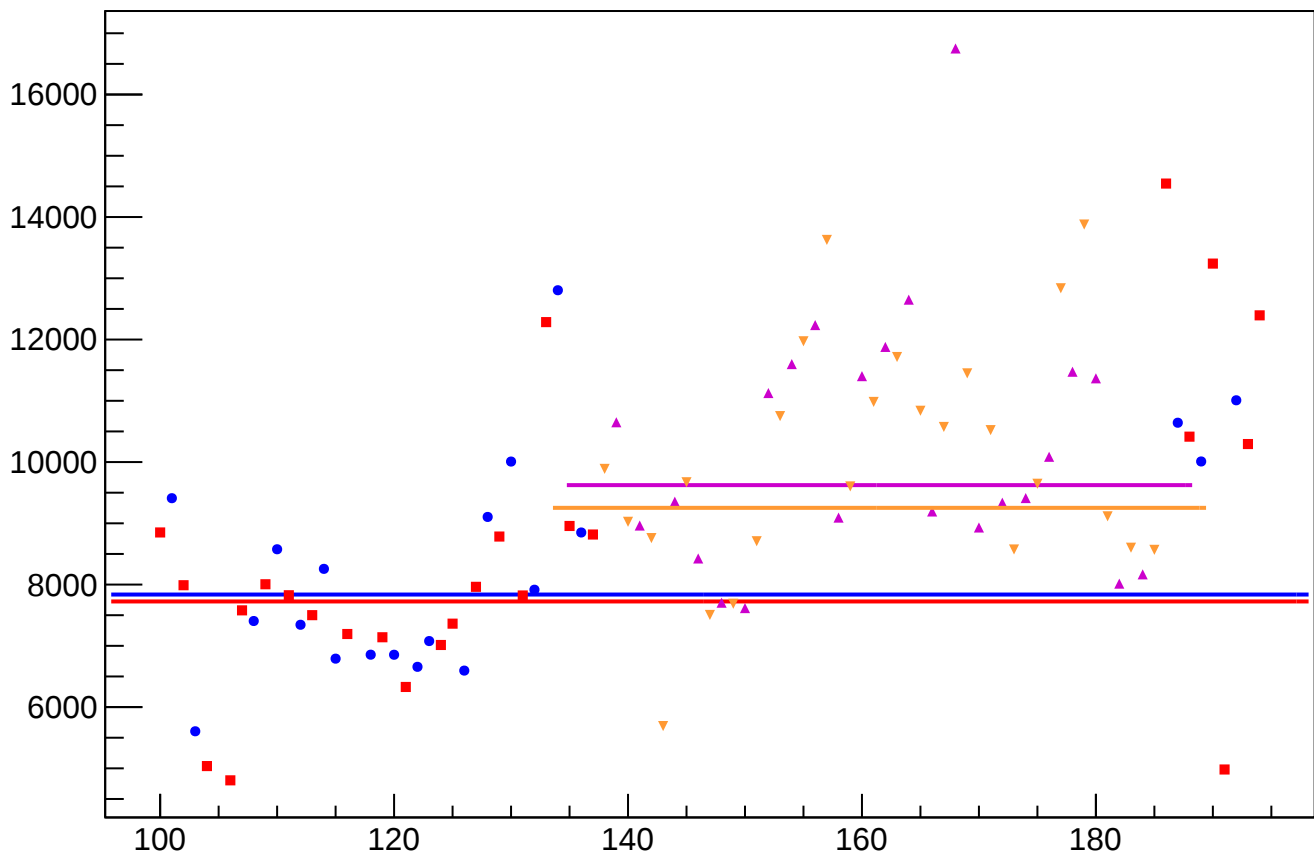
Right: 5523.438+/-1873.003 χ^2/NDF : 42.7/44

In: 3501.151+/-1803.005 χ^2/NDF : 30.1/42

Out: 3777.636+/-1658.818 χ^2/NDF : 56.5/49

All: 3650.889+/-1220.758 χ^2/NDF : 86.6/92

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7837.433+/-1.994 χ^2/NDF : 665293.0/19

Left Out: 9252.712+/-1.565 χ^2/NDF : 1597668.9/24

Right Out: 7724.443+/-1.771 χ^2/NDF : 1474525.0/24

Left In: 9623.485+/-1.658 χ^2/NDF : 1069924.0/22

Left: 9427.467+/-1.138 χ^2/NDF : 2694036.4/47

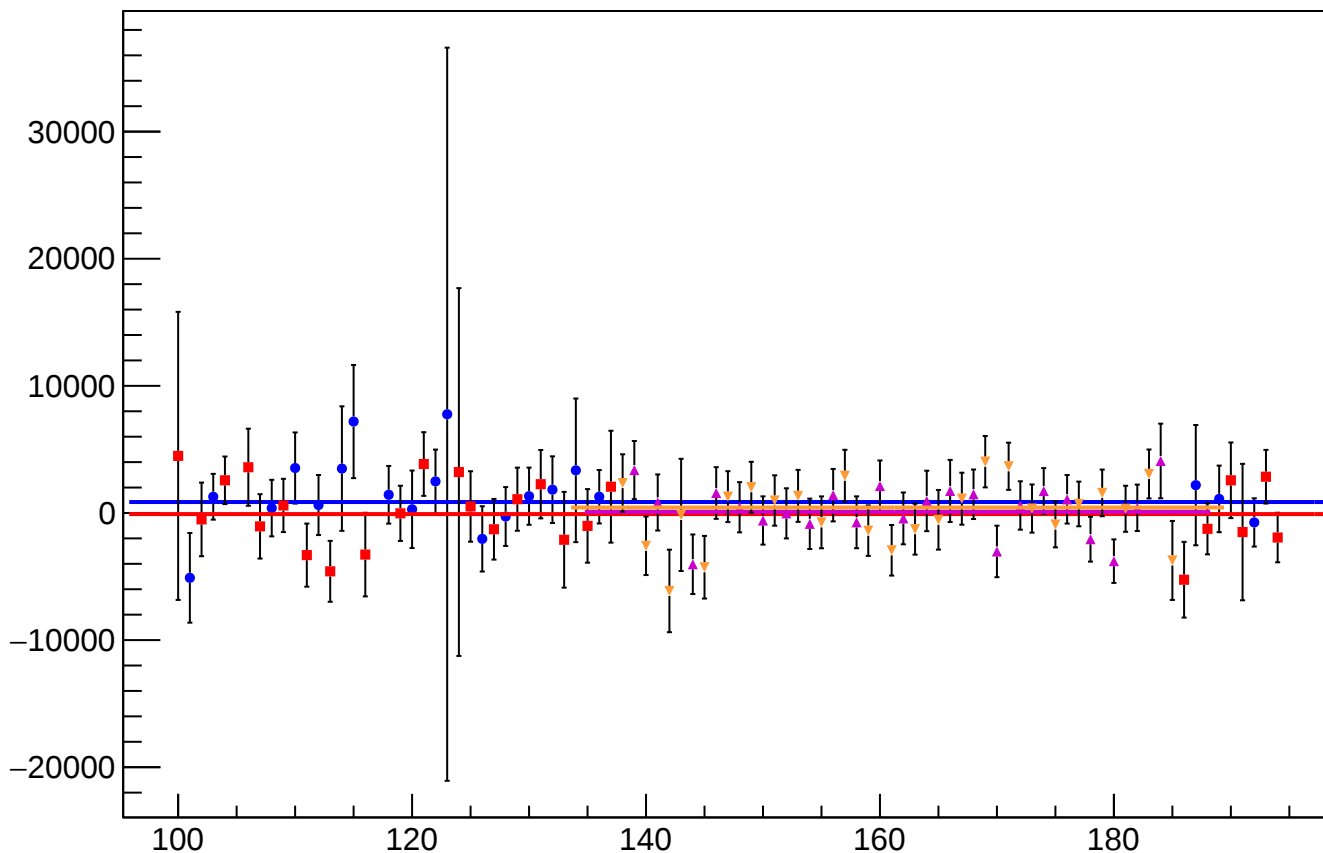
Right: 7774.261+/-1.324 χ^2/NDF : 2141612.4/44

In: 8893.676+/-1.275 χ^2/NDF : 2209478.0/42

Out: 8582.481+/-1.173 χ^2/NDF : 3490220.7/49

All: 8725.133+/-0.863 χ^2/NDF : 5731967.8/92

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 861.139 ± 591.312 $\chi^2/\text{NDF}: 9.5/19$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -87.665 ± 530.379 $\chi^2/\text{NDF}: 21.6/24$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

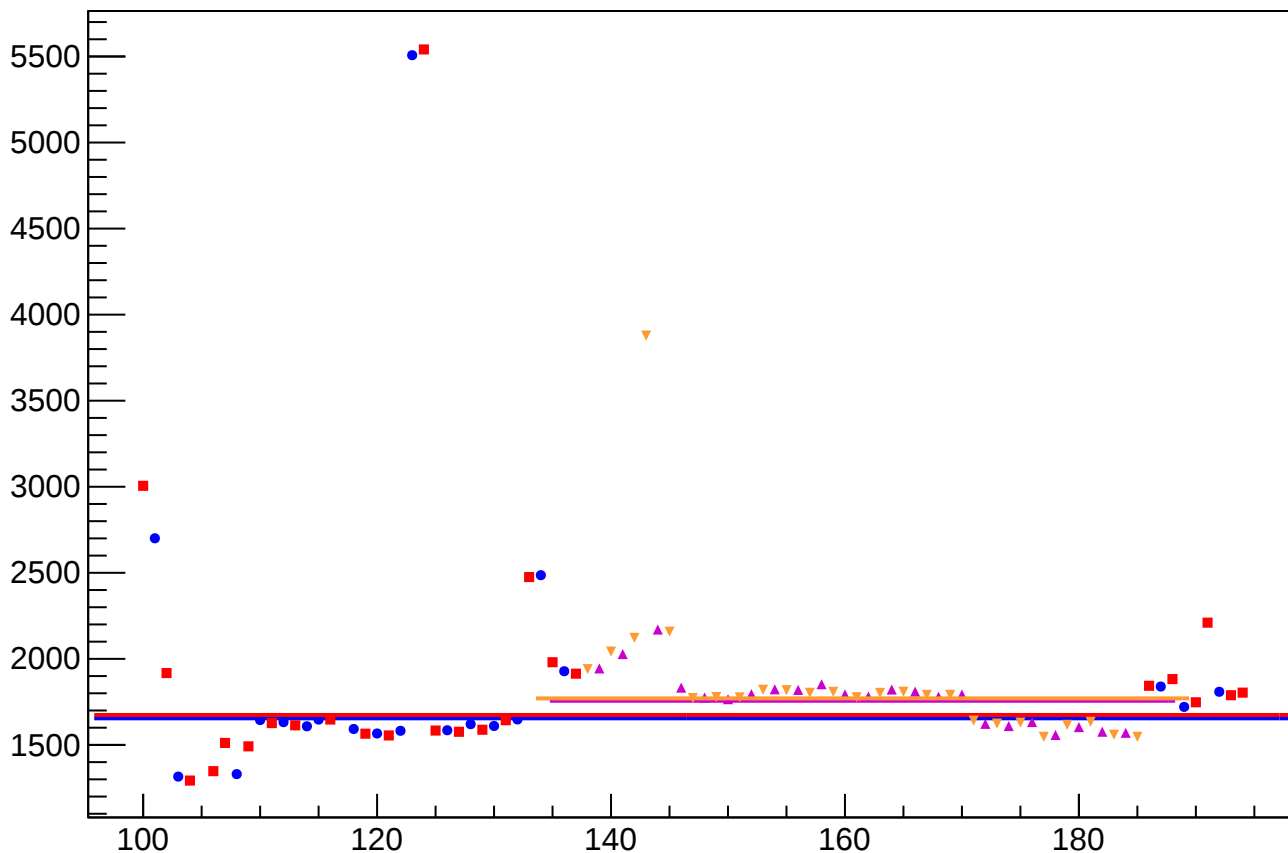
Right: 335.347 ± 394.825 $\chi^2/\text{NDF}: 32.5/44$

In: 349.108 ± 343.473 $\chi^2/\text{NDF}: 31.6/42$

Out: 232.267 ± 327.510 $\chi^2/\text{NDF}: 50.9/49$

All: 287.910 ± 237.027 $\chi^2/\text{NDF}: 82.5/92$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1654.562 $\pm$ 0.418 χ^2 /NDF: 427342.7/19

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1674.017 $\pm$ 0.375 χ^2 /NDF: 517046.5/24

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

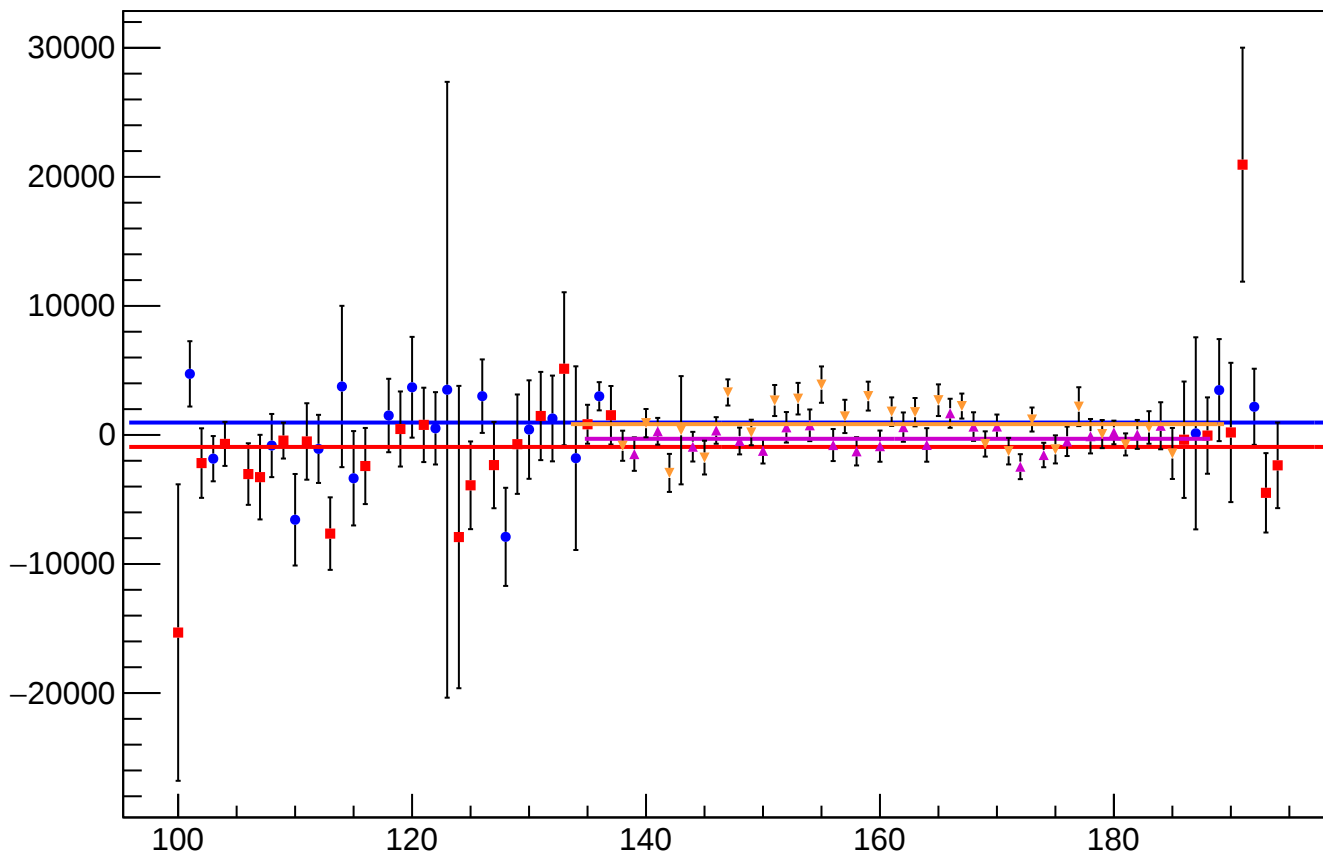
Right: 1665.343 $\pm$ 0.279 χ^2 /NDF: 945588.9/44

In: 1722.187 $\pm$ 0.243 χ^2 /NDF: 689899.0/42

Out: 1733.638 $\pm$ 0.232 χ^2 /NDF: 1257432.9/49

All: 1728.185 $\pm$ 0.168 χ^2 /NDF: 1948496.3/92

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 961.059+/-609.211 χ^2/NDF : 22.7/19

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -928.350+/-552.619 χ^2/NDF : 22.6/24

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

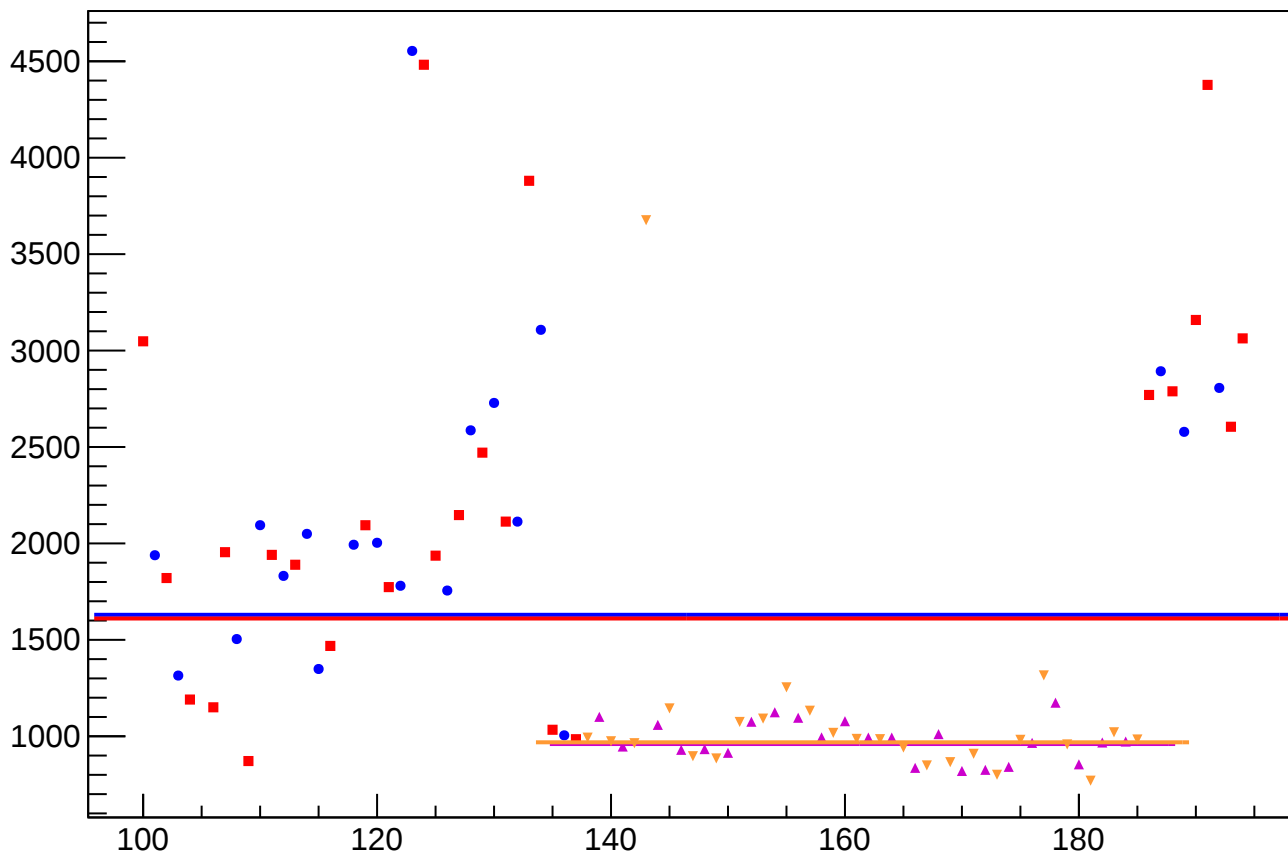
Right: -75.460+/-409.309 χ^2/NDF : 50.7/44

In: -139.953+/-216.320 χ^2/NDF : 44.8/42

Out: 577.449+/-212.709 χ^2/NDF : 85.7/49

All: 224.787+/-151.669 χ^2/NDF : 136.1/92

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1629.870+/-0.431 χ^2/NDF : 1822462.7/19

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1610.661+/-0.391 χ^2/NDF : 3400539.7/24

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

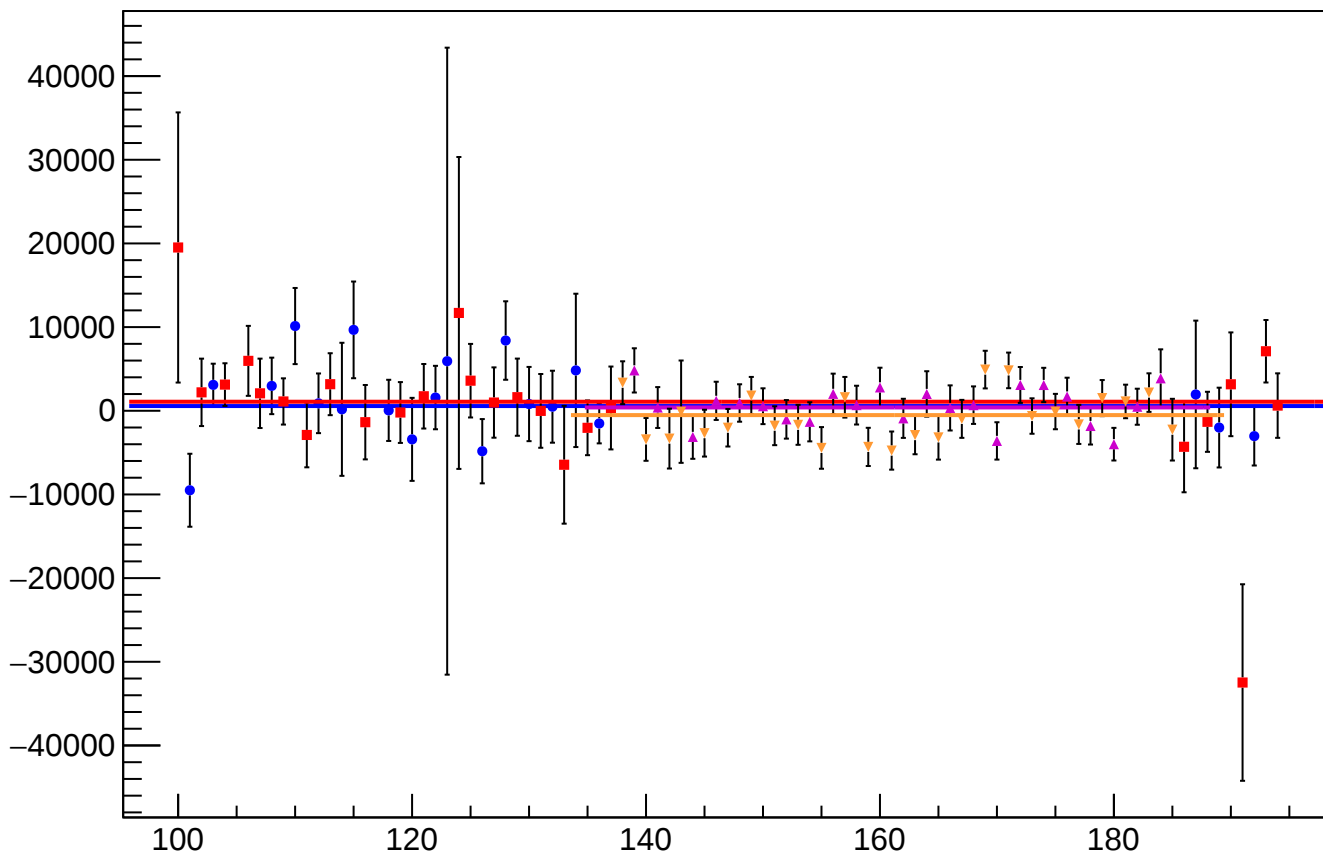
Right: 1619.332+/-0.289 χ^2/NDF : 5224093.2/44

In: 1044.289+/-0.153 χ^2/NDF : 4308127.3/42

Out: 1063.820+/-0.150 χ^2/NDF : 7093242.3/49

All: 1054.219+/-0.107 χ^2/NDF : 11409659.0/99

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 563.951 ± 913.030 χ^2/NDF : 21.6/19

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 1082.034 ± 831.362 χ^2/NDF : 20.4/24

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

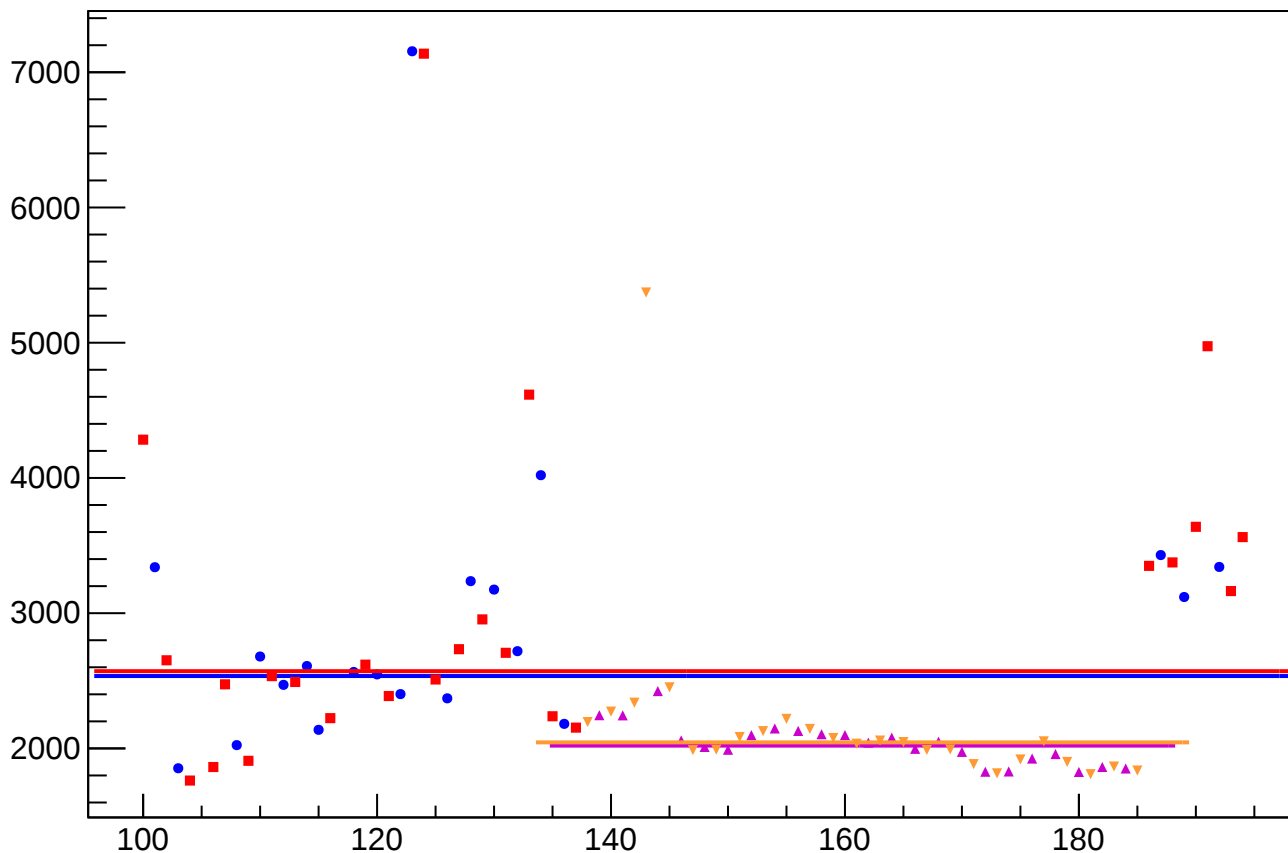
Right: 847.194 ± 614.710 χ^2/NDF : 42.2/44

In: 434.058 ± 428.353 χ^2/NDF : 43.5/42

Out: -115.907 ± 416.653 χ^2/NDF : 57.2/49

All: 151.462 ± 298.669 χ^2/NDF : 101.5/92

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2535.188 $\pm$ 0.646 χ^2/NDF : 651046.7/19

Left Out: 2044.722 $\pm$ 0.340 χ^2/NDF : 788703.5/24

Right Out: 2571.178 $\pm$ 0.588 χ^2/NDF : 1226232.1/24

Left In: 2020.802 $\pm$ 0.343 χ^2/NDF : 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2/NDF : 964655.5/47

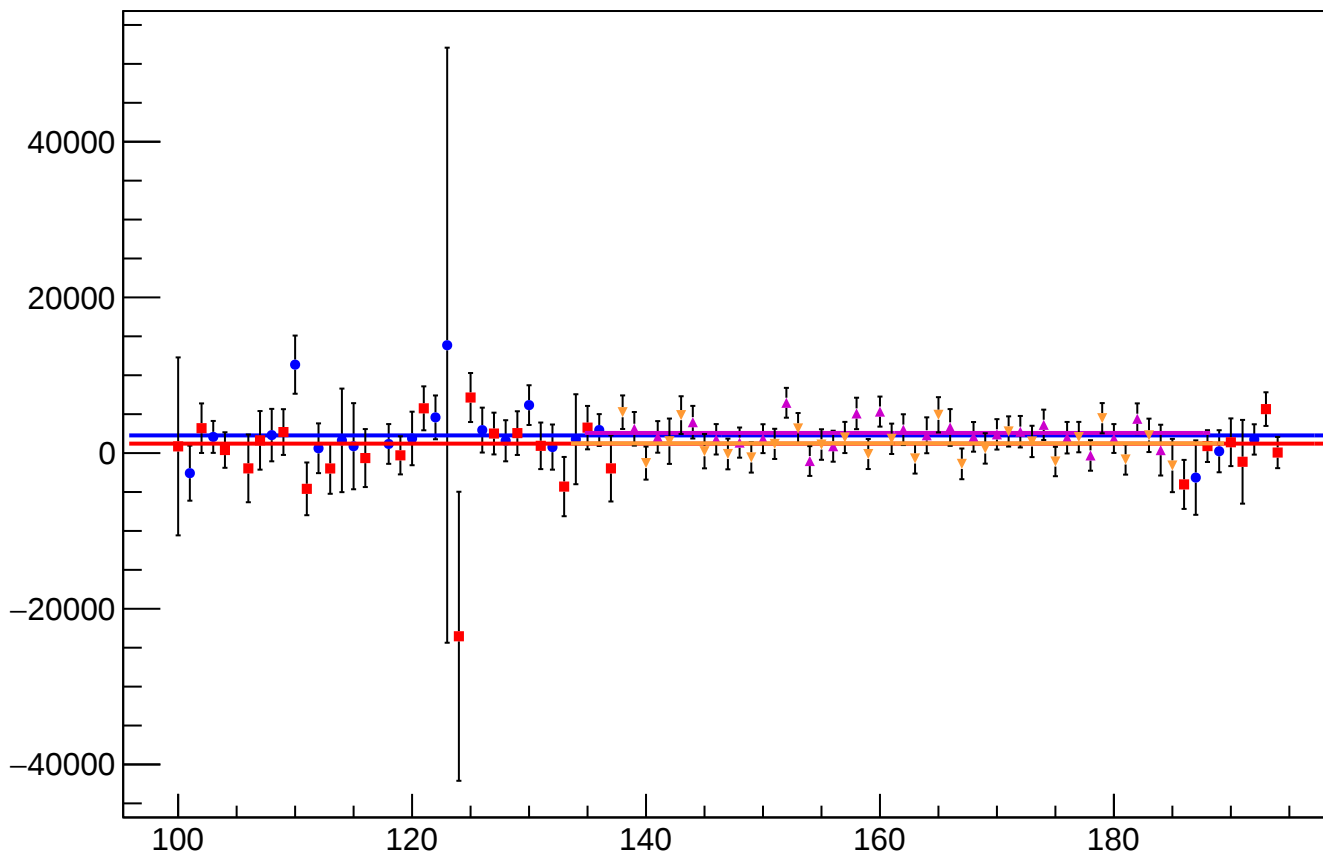
Right: 2554.864 $\pm$ 0.435 χ^2/NDF : 1878977.7/44

In: 2134.022 $\pm$ 0.303 χ^2/NDF : 1319629.6/42

Out: 2176.954 $\pm$ 0.295 χ^2/NDF : 2615497.9/49

All: 2156.082 $\pm$ 0.211 χ^2/NDF : 3945450.5/92

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2271.891+/-667.420 χ^2/NDF : 13.9/19

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 1214.837+/-601.761 χ^2/NDF : 24.9/24

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

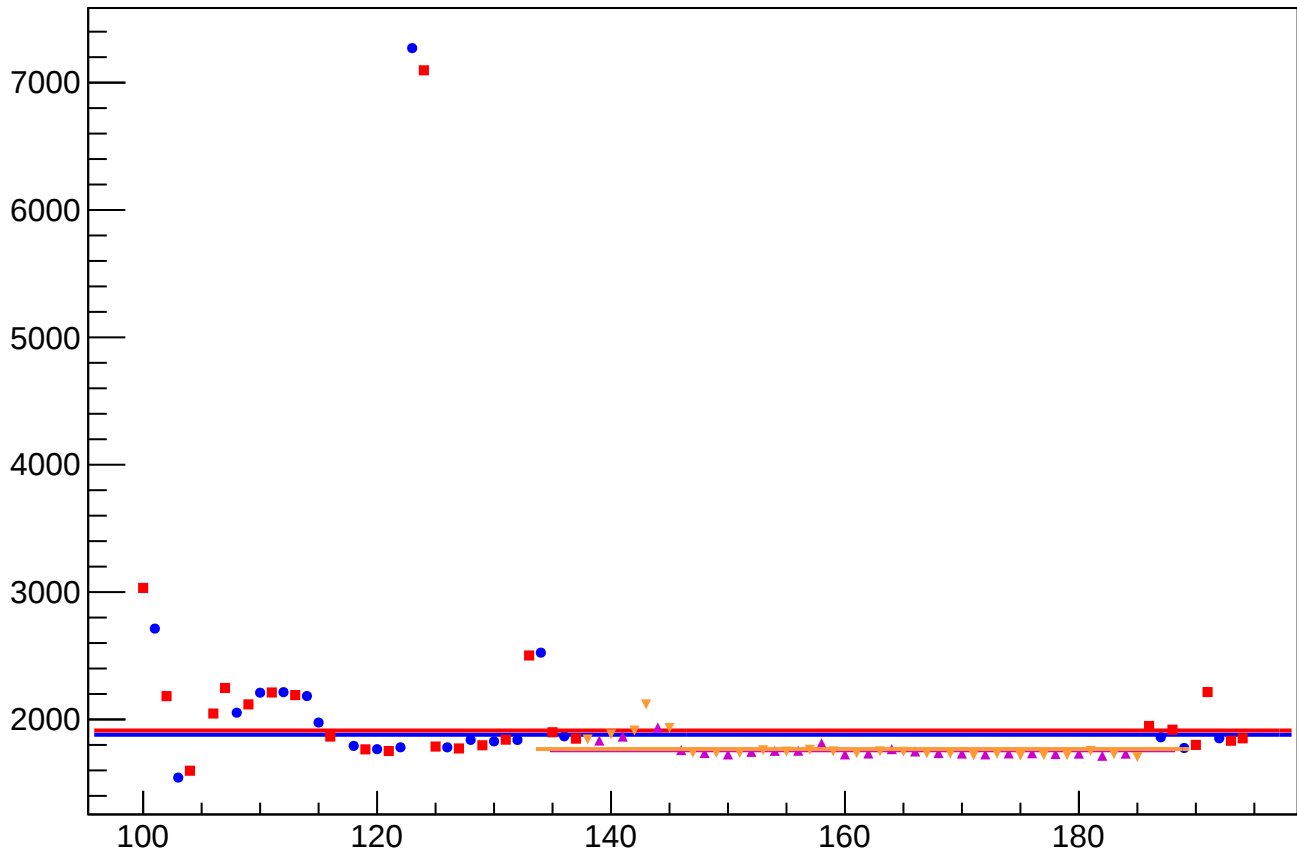
Right: 1688.825+/-446.925 χ^2/NDF : 40.2/44

In: 2497.108+/-356.387 χ^2/NDF : 31.5/42

Out: 1238.703+/-340.229 χ^2/NDF : 47.9/49

All: 1838.732+/-246.092 χ^2/NDF : 86.0/92

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1879.905 $\pm$ 0.472 χ^2 /NDF: 291695.4/19

Left Out: 1767.517 $\pm$ 0.292 χ^2 /NDF: 77674.7/24

Right Out: 1913.337 $\pm$ 0.425 χ^2 /NDF: 375157.1/24

Left In: 1758.076 $\pm$ 0.298 χ^2 /NDF: 29806.0/22

Left: 1762.899 $\pm$ 0.208 χ^2 /NDF: 107993.2/47

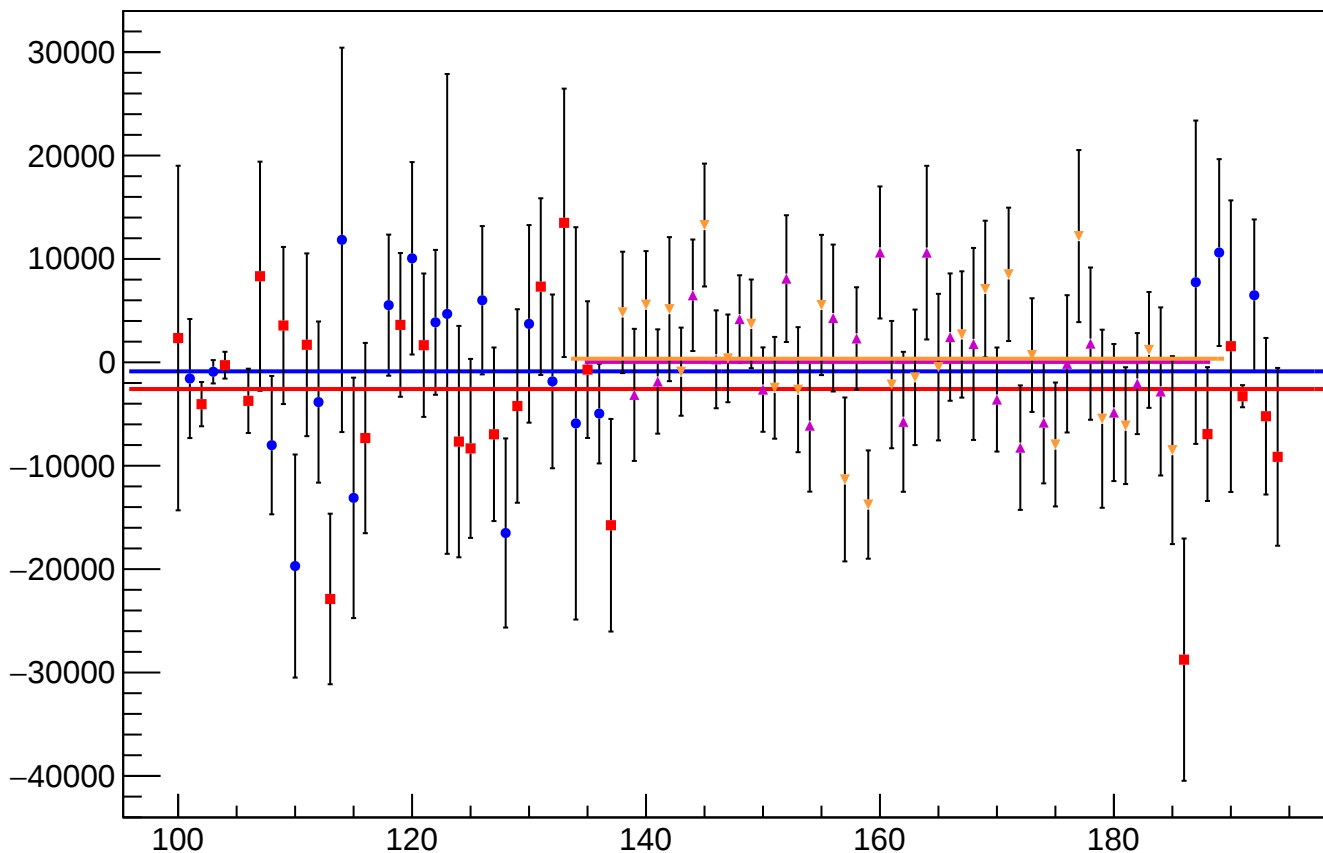
Right: 1898.363 $\pm$ 0.316 χ^2 /NDF: 669623.1/44

In: 1792.813 $\pm$ 0.252 χ^2 /NDF: 369139.8/42

Out: 1814.196 $\pm$ 0.240 χ^2 /NDF: 532843.9/49

All: 1804.004 $\pm$ 0.174 χ^2 /NDF: 905751.7/92

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -871.574+/-968.959 χ^2/NDF : 16.5/19

Left Out: 351.227+/-1170.051 χ^2/NDF : 27.8/24

Right Out: -2580.453+/-695.496 χ^2/NDF : 25.4/24

Left In: 40.618+/-1207.491 χ^2/NDF : 16.0/22

Left: 200.813+/-840.276 χ^2/NDF : 43.9/47

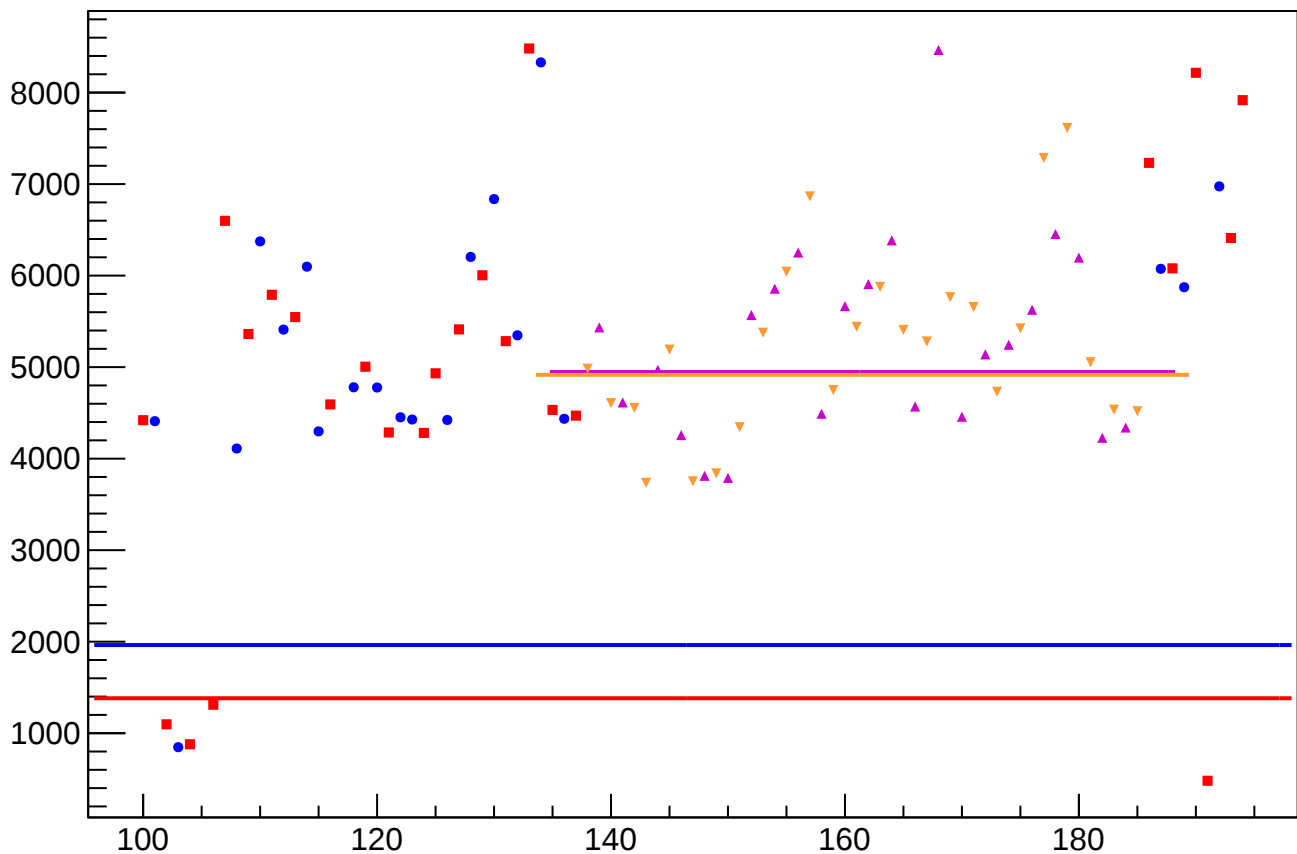
Right: -1999.396+/-565.014 χ^2/NDF : 44.0/44

In: -514.265+/-755.724 χ^2/NDF : 32.9/42

Out: -1815.046+/-597.851 χ^2/NDF : 57.9/49

All: -1314.335+/-468.872 χ^2/NDF : 92.6/92

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1963.403+/-0.685 χ^2/NDF : 7934222.1/19

Left Out: 4915.865+/-0.827 χ^2/NDF : 1186479.7/24

Right Out: 1381.958+/-0.492 χ^2/NDF : 12090058.2/24

Left In: 4945.817+/-0.854 χ^2/NDF : 1188288.6/22

Left: 4930.370+/-0.594 χ^2/NDF : 2375402.9/47

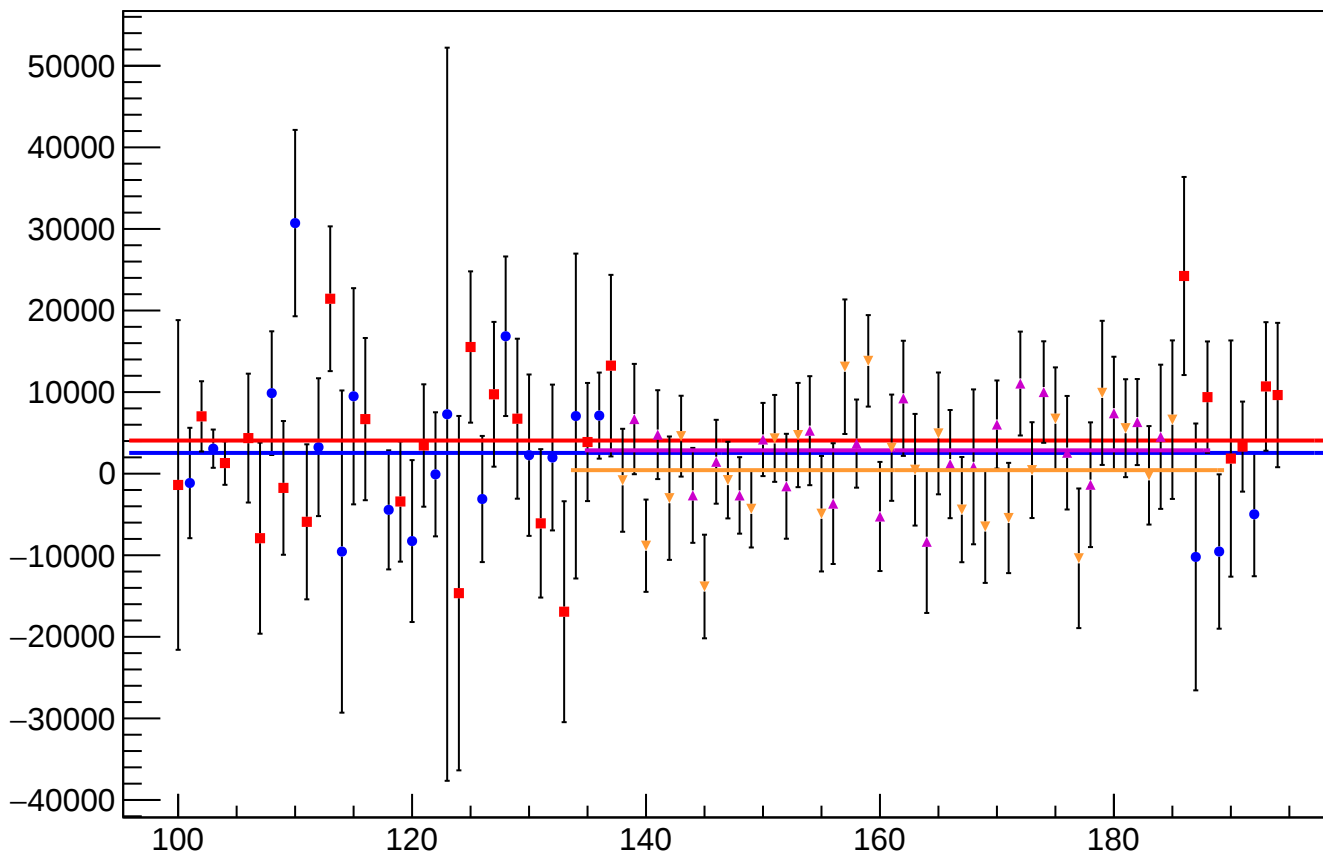
Right: 1579.662+/-0.400 χ^2/NDF : 20499577.7/44

In: 3131.626+/-0.534 χ^2/NDF : 16544372.6/42

Out: 2304.595+/-0.423 χ^2/NDF : 26757691.5/49

All: 2622.945+/-0.332 χ^2/NDF : 44775297.0/95

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2544.117+/-1546.069 χ^2/NDF : 17.0/19

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4061.541+/-1441.195 χ^2/NDF : 20.8/24

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

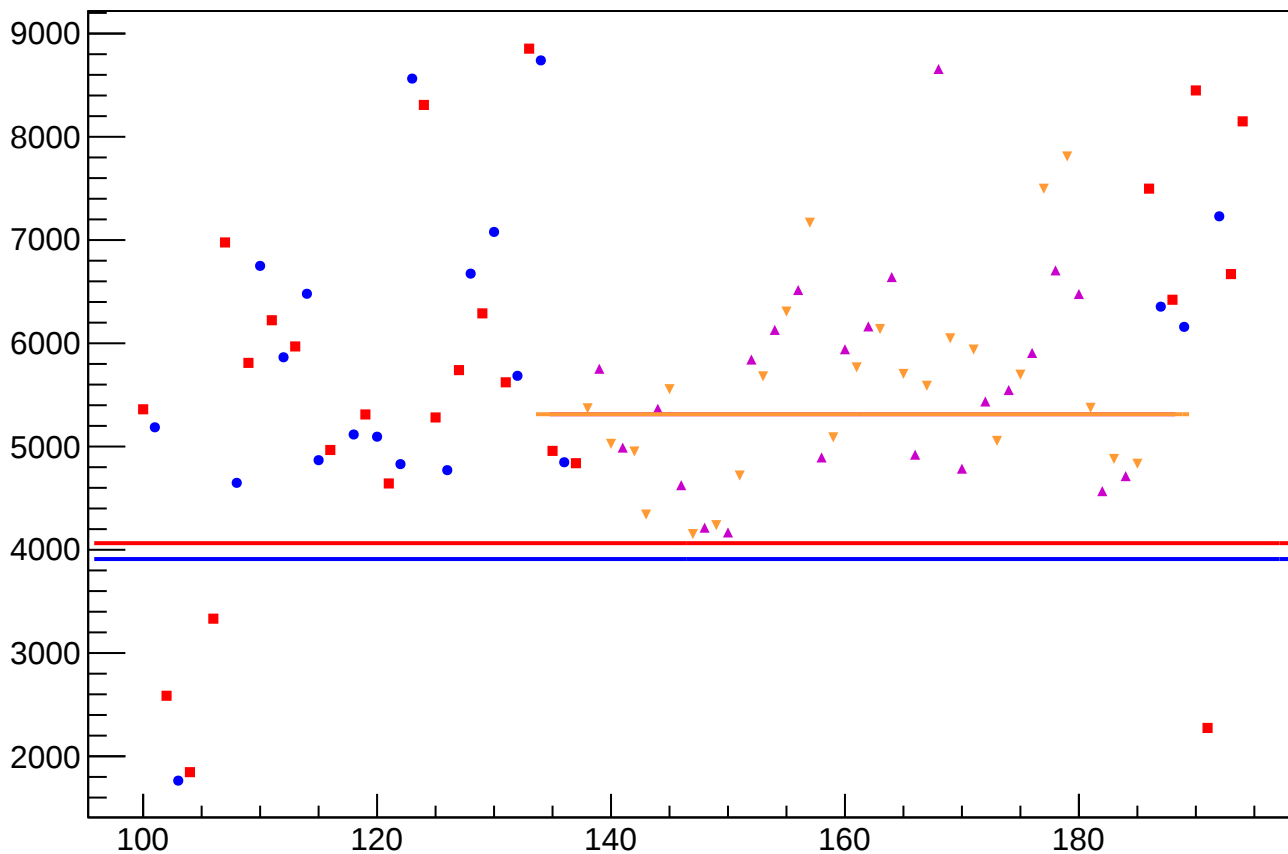
Right: 3356.036+/-1054.206 χ^2/NDF : 38.3/44

In: 2730.221+/-991.551 χ^2/NDF : 29.8/42

Out: 2001.303+/-947.850 χ^2/NDF : 51.5/49

All: 2349.345+/-685.160 χ^2/NDF : 81.7/92

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3910.306+/-1.093 χ^2/NDF : 3362992.3/19

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4064.054+/-1.014 χ^2/NDF : 4216743.6/24

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

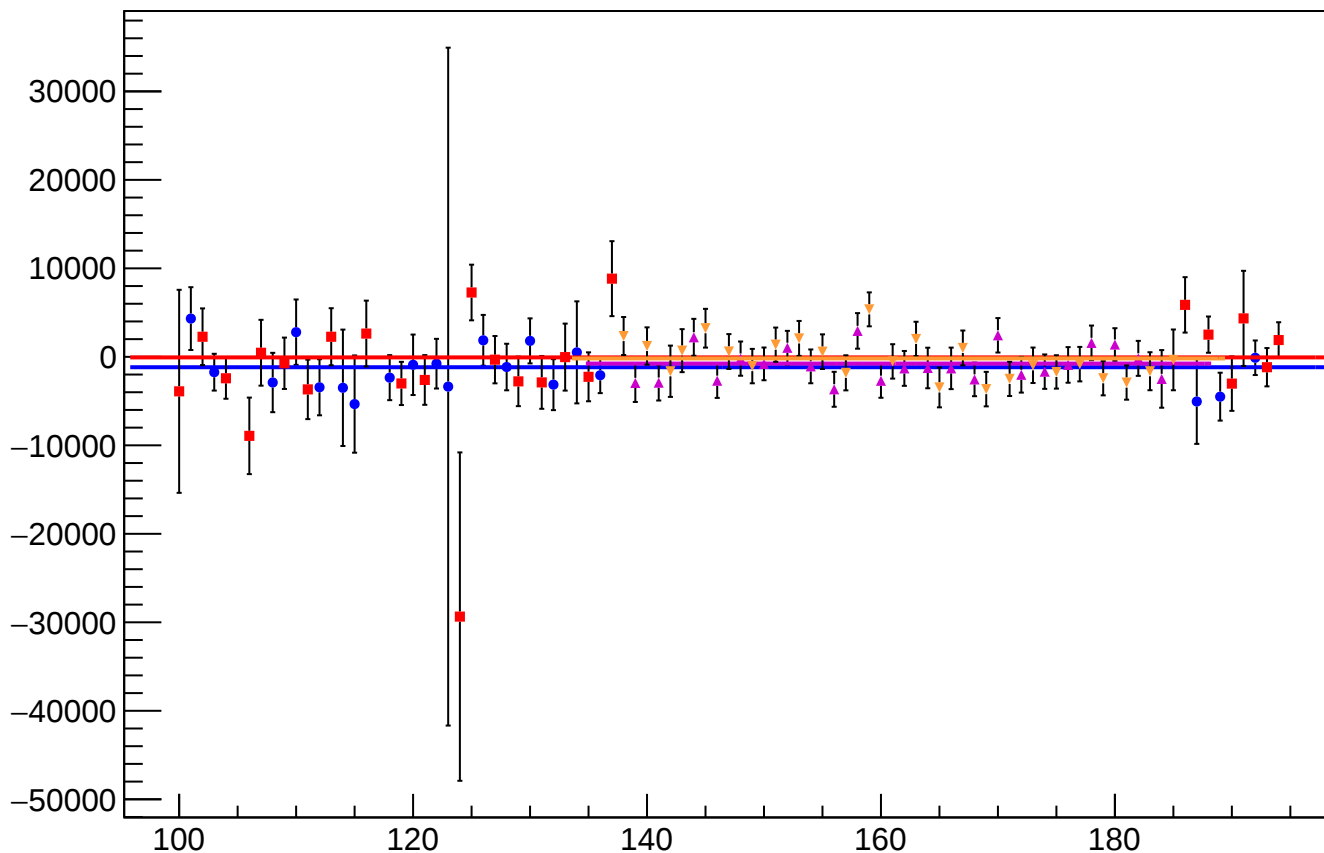
Right: 3992.982+/-0.743 χ^2/NDF : 7590371.4/44

In: 4735.972+/-0.701 χ^2/NDF : 5289332.0/42

Out: 4769.479+/-0.669 χ^2/NDF : 5968643.0/49

All: 4753.519+/-0.484 χ^2/NDF : 11259171.0/99

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1173.420 ± 665.935 $\chi^2/\text{NDF}: 11.1/19$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: -62.486 ± 600.865 $\chi^2/\text{NDF}: 33.2/24$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

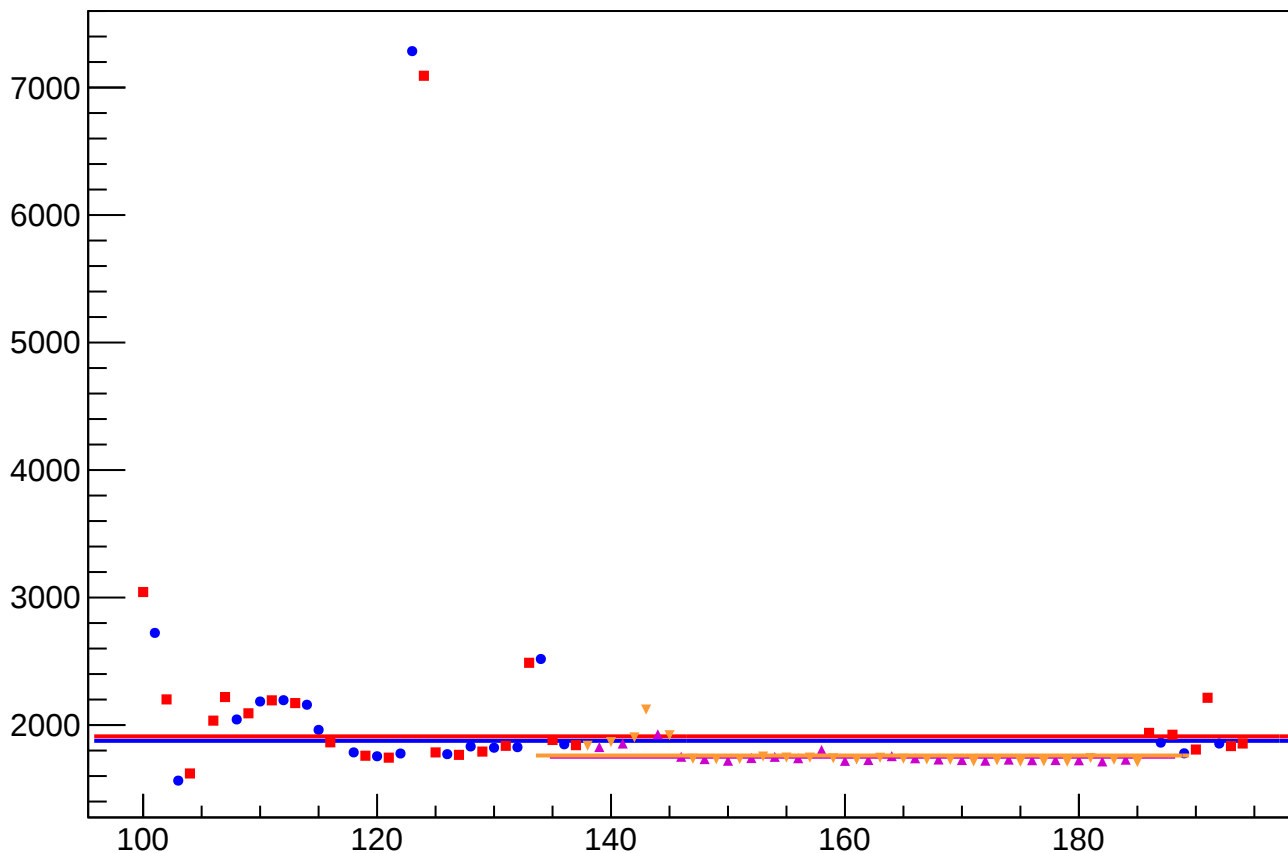
Right: -561.040 ± 446.112 $\chi^2/\text{NDF}: 45.8/44$

In: -877.435 ± 355.190 $\chi^2/\text{NDF}: 31.6/42$

Out: -142.406 ± 339.219 $\chi^2/\text{NDF}: 62.5/49$

All: -493.024 ± 245.316 $\chi^2/\text{NDF}: 96.4/92$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1876.229+/-0.471 χ^2/NDF : 282461.0/19

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1911.301+/-0.424 χ^2/NDF : 363081.2/24

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

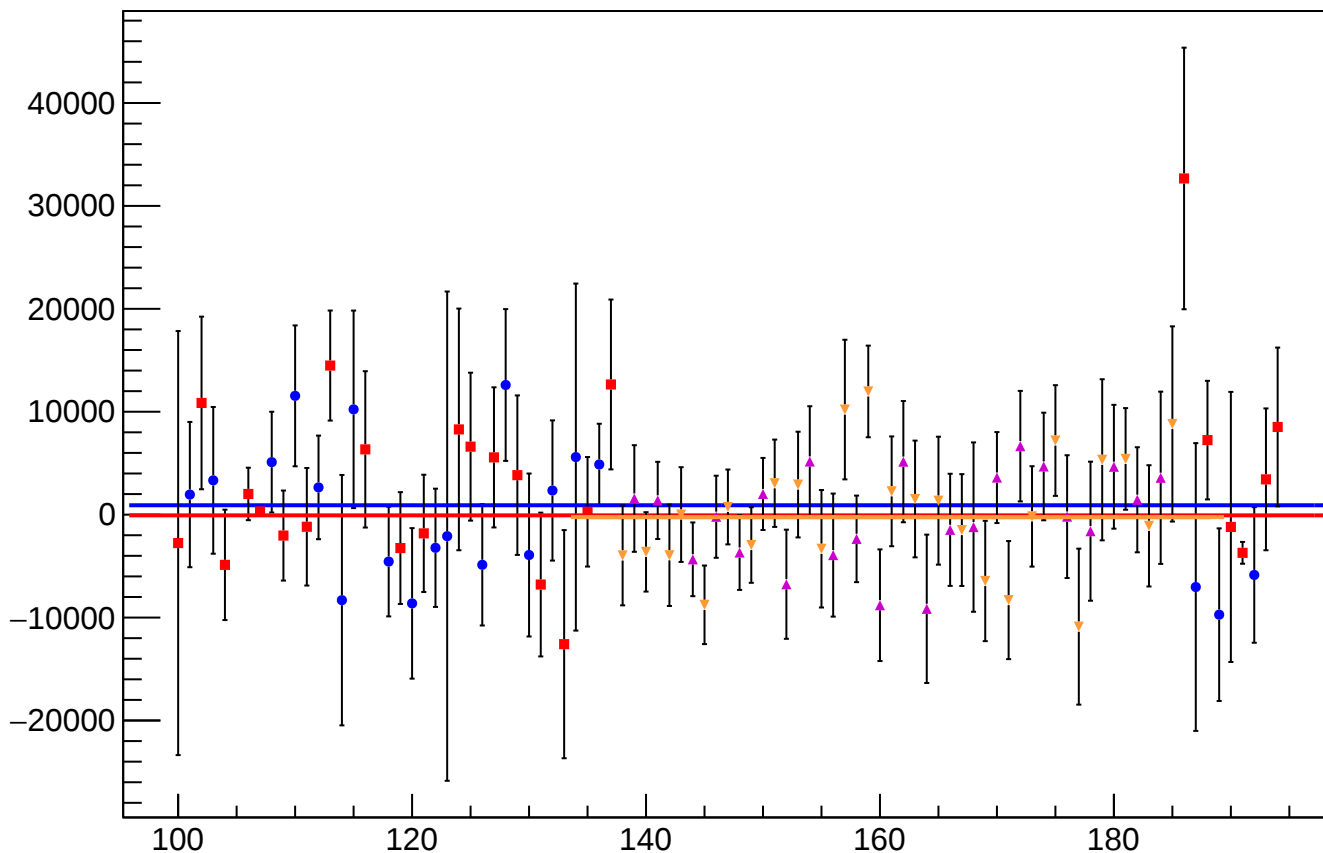
Right: 1895.580+/-0.315 χ^2/NDF : 648602.9/44

In: 1786.925+/-0.251 χ^2/NDF : 361308.2/42

Out: 1809.033+/-0.240 χ^2/NDF : 525823.6/49

All: 1798.491+/-0.173 χ^2/NDF : 891185.5/92

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 912.860 ± 1507.090 χ^2/NDF : 16.2/19

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: -67.286 ± 414.263 χ^2/NDF : 41.1/24

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

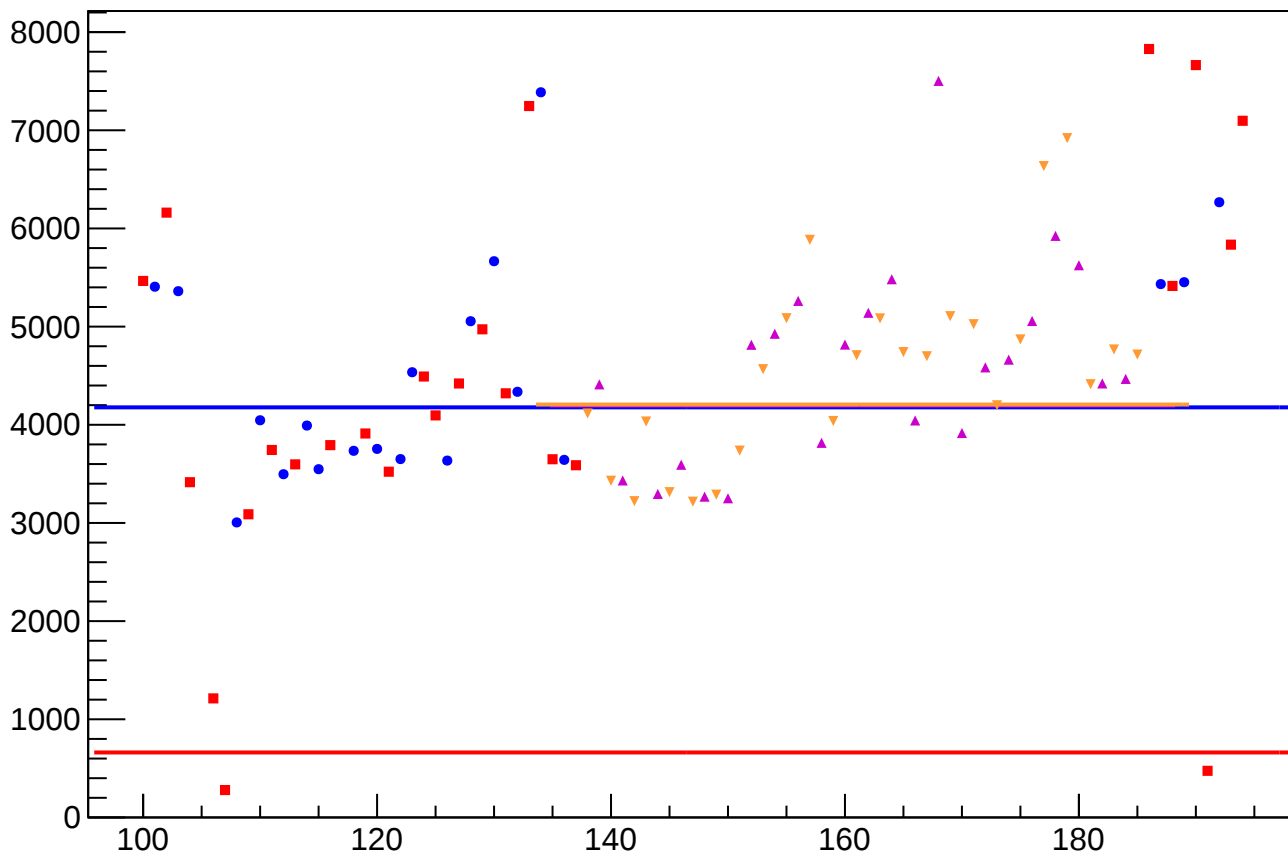
Right: 1.568 ± 399.447 χ^2/NDF : 57.6/44

In: 127.030 ± 849.744 χ^2/NDF : 31.9/42

Out: -91.755 ± 383.009 χ^2/NDF : 69.9/49

All: -54.812 ± 349.178 χ^2/NDF : 101.9/92

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4177.584+/-1.066

χ^2/NDF : 804288.8/19

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right: 908.986+/-0.282

χ^2/NDF : 26315098.8/44

Right Out: 662.021+/-0.293

χ^2/NDF : 15392497.6/24

In: 4191.010+/-0.601

χ^2/NDF : 2275534.4/42

Out: 1176.611+/-0.271

χ^2/NDF : 38088743.2/49

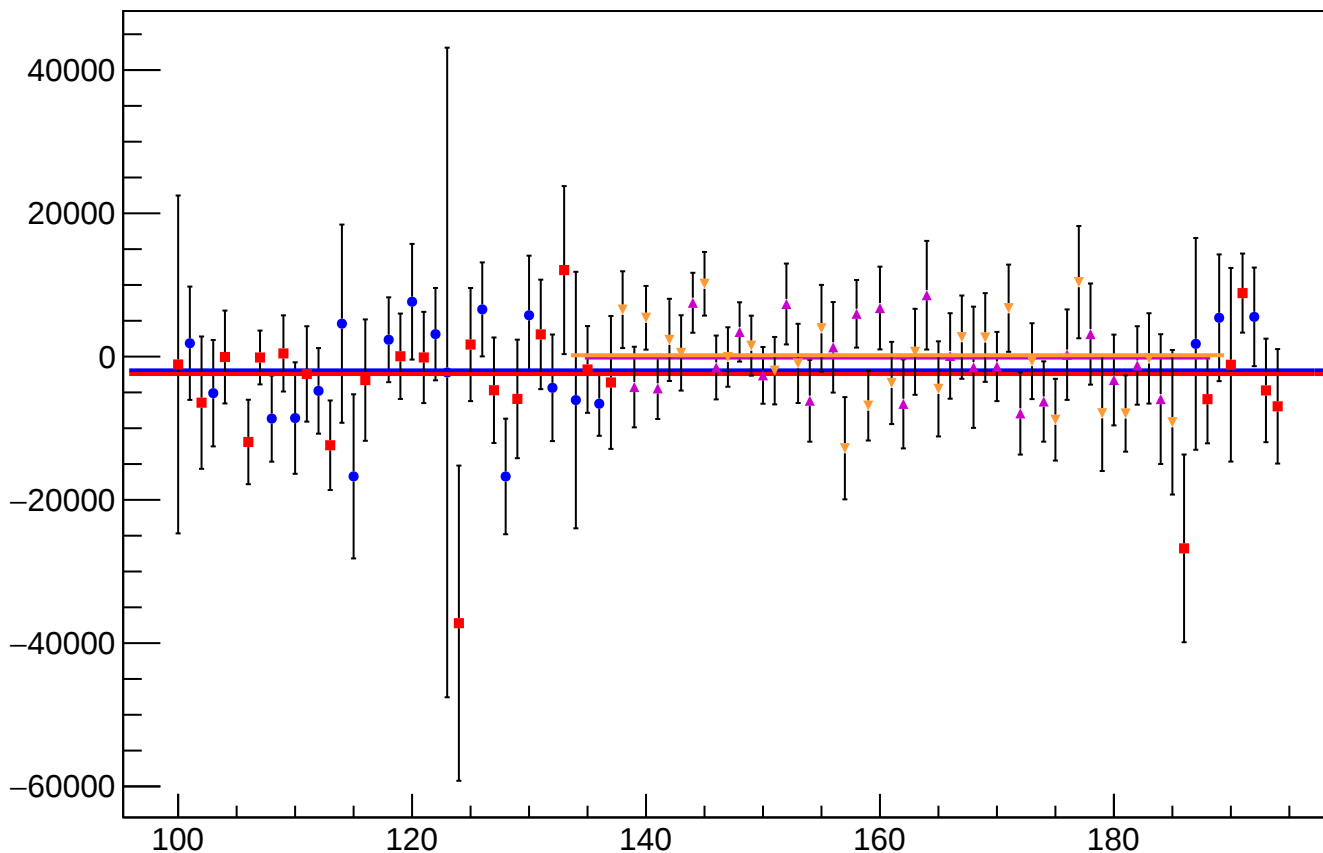
Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

All: 1685.610+/-0.247

χ^2/NDF : 61282805.5/9

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1924.579+/-1690.086 χ^2/NDF : 16.1/19

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -2433.558+/-1404.548 χ^2/NDF : 19.9/24

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

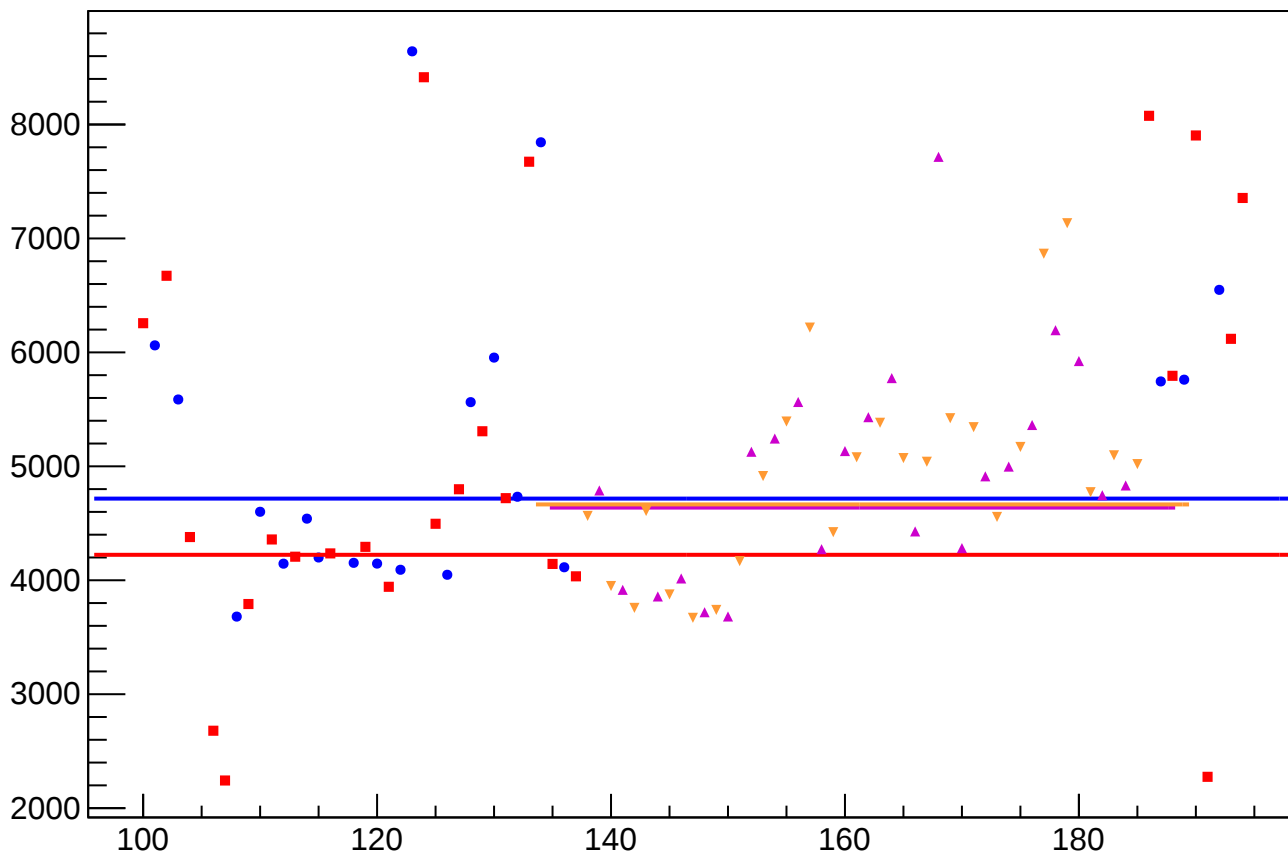
Right: -2225.635+/-1080.215 χ^2/NDF : 36.1/44

In: -689.335+/-939.178 χ^2/NDF : 35.5/42

Out: -815.269+/-869.351 χ^2/NDF : 47.1/49

All: -757.157+/-637.983 χ^2/NDF : 82.6/92

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4716.730 ± 1.195 $\chi^2/\text{NDF}: 593040.5/19$

Left Out: 4665.620 ± 0.783 $\chi^2/\text{NDF}: 1017235.0/24$

Right Out: 4223.413 ± 0.988 $\chi^2/\text{NDF}: 2342023.0/24$

Left In: 4637.777 ± 0.799 $\chi^2/\text{NDF}: 1065217.2/22$

Left: 4651.983 ± 0.559 $\chi^2/\text{NDF}: 2083072.1/47$

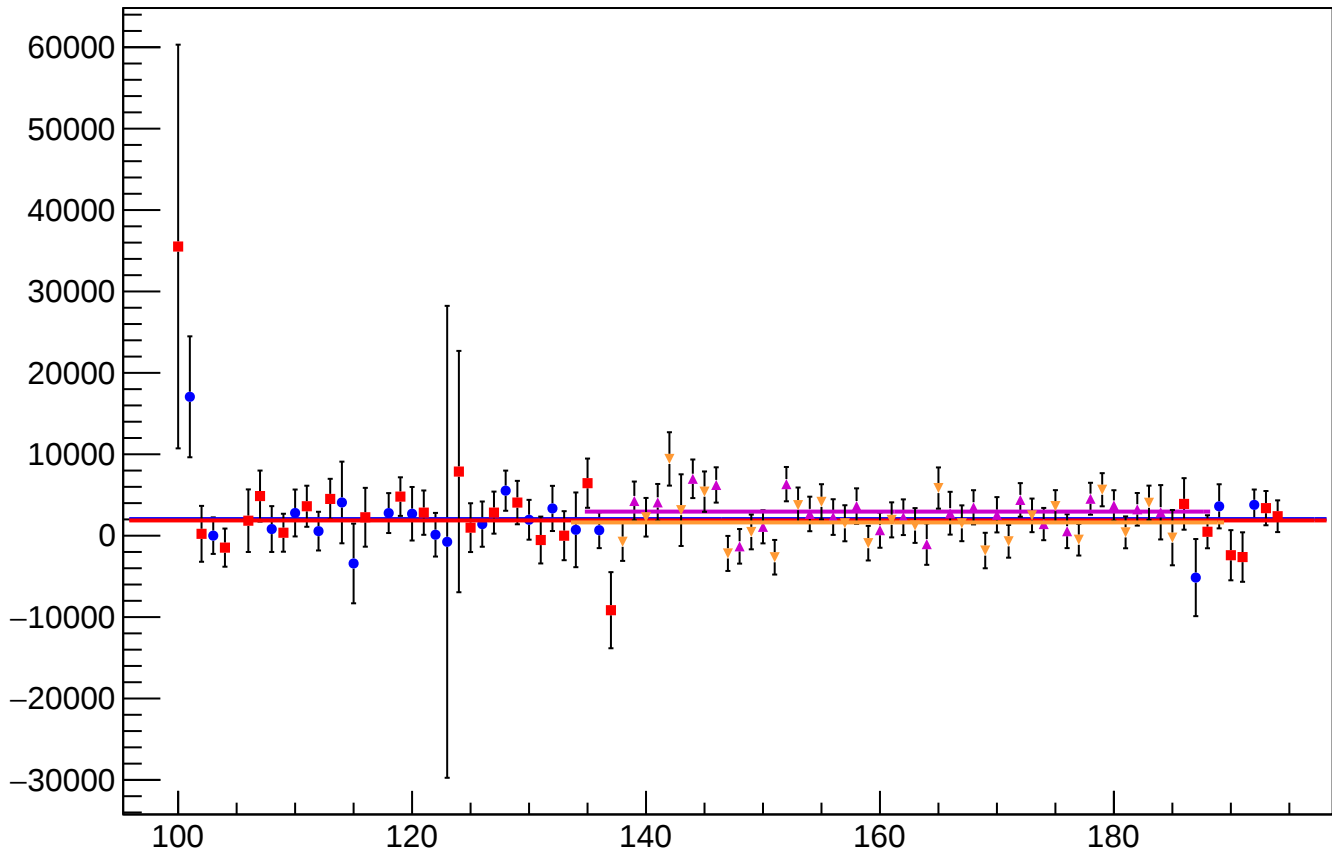
Right: 4423.722 ± 0.762 $\chi^2/\text{NDF}: 3036272.2/44$

In: 4662.158 ± 0.664 $\chi^2/\text{NDF}: 1661274.5/42$

Out: 4495.140 ± 0.614 $\chi^2/\text{NDF}: 3482327.3/49$

All: 4572.047 ± 0.451 $\chi^2/\text{NDF}: 5177726.8/92$

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2038.977+/-641.733 χ^2/NDF : 13.9/19

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 1874.093+/-561.644 χ^2/NDF : 24.3/24

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

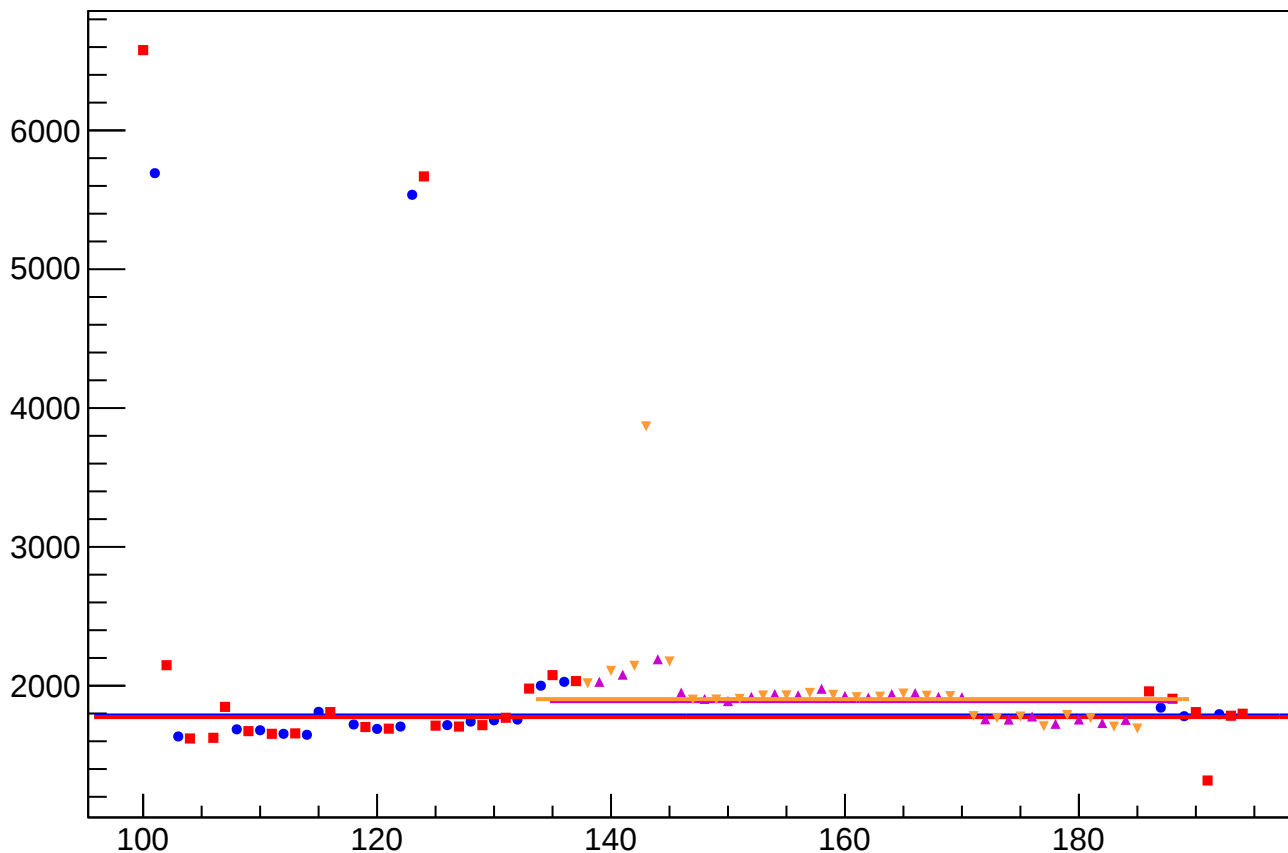
Right: 1945.610+/-422.638 χ^2/NDF : 38.2/44

In: 2652.150+/-370.458 χ^2/NDF : 35.6/42

Out: 1724.694+/-349.781 χ^2/NDF : 59.8/49

All: 2161.818+/-254.328 χ^2/NDF : 98.8/92

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1785.726 $\pm$ 0.454 χ^2 /NDF: 644985.0/19

Left Out: 1903.618 $\pm$ 0.316 χ^2 /NDF: 541575.7/24

Right Out: 1774.024 $\pm$ 0.395 χ^2 /NDF: 367341.9/24

Left In: 1888.927 $\pm$ 0.321 χ^2 /NDF: 126417.2/22

Left: 1896.381 $\pm$ 0.225 χ^2 /NDF: 669056.9/47

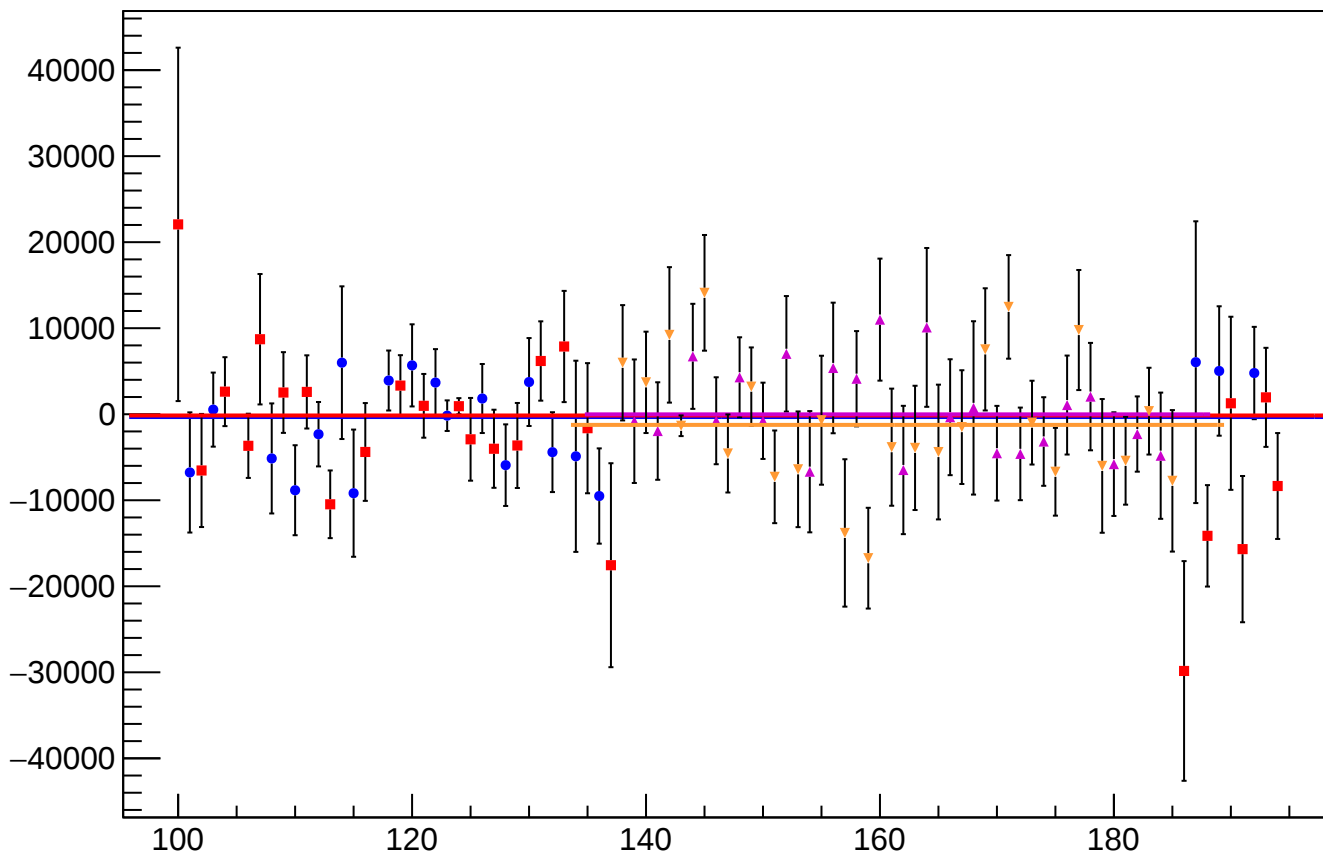
Right: 1779.073 $\pm$ 0.298 χ^2 /NDF: 1012705.0/44

In: 1854.535 $\pm$ 0.262 χ^2 /NDF: 805889.2/42

Out: 1853.069 $\pm$ 0.247 χ^2 /NDF: 974470.9/49

All: 1853.759 $\pm$ 0.180 χ^2 /NDF: 1780376.7/92

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -325.758 ± 983.182 $\chi^2/\text{NDF}: 18.0/19$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: -146.621 ± 704.805 $\chi^2/\text{NDF}: 38.9/24$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

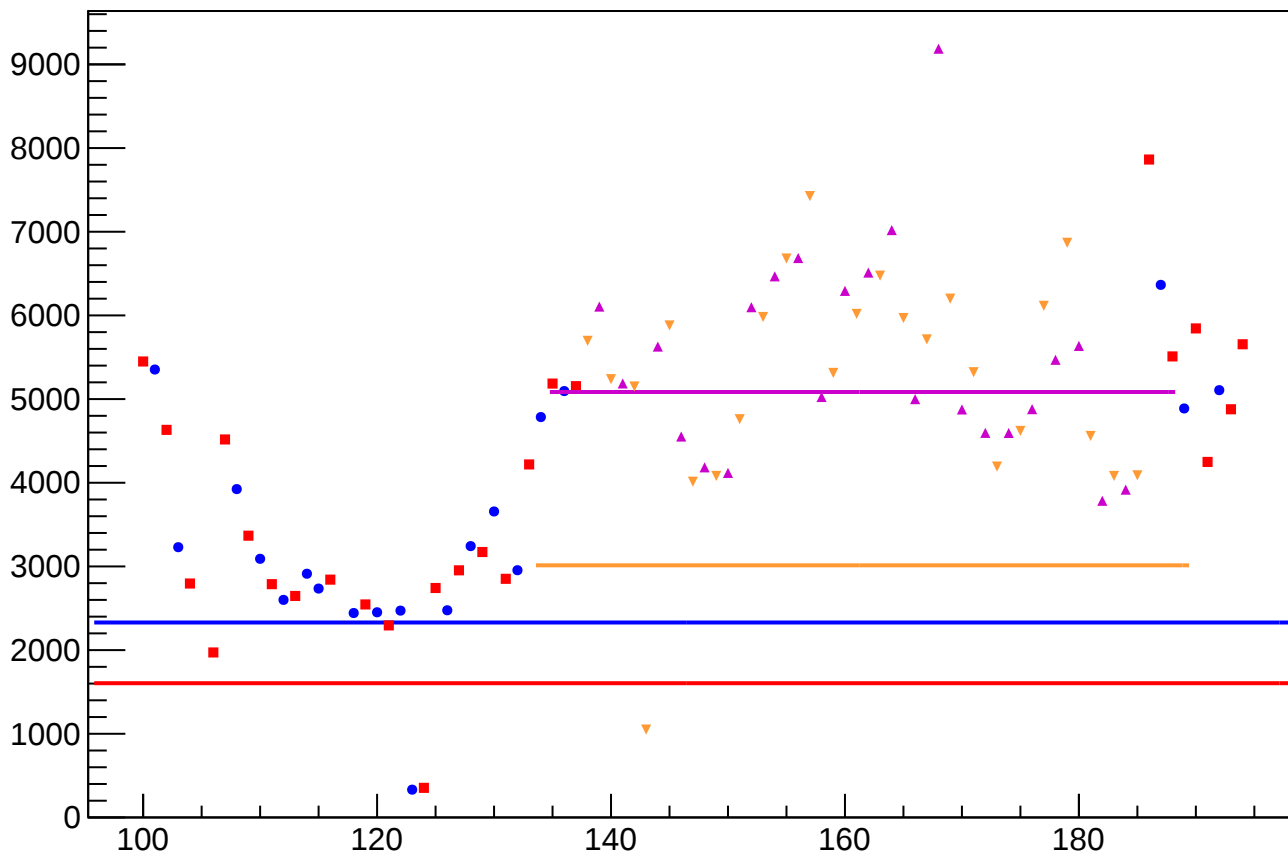
Right: -207.429 ± 572.825 $\chi^2/\text{NDF}: 57.0/44$

In: -206.530 ± 771.195 $\chi^2/\text{NDF}: 31.3/42$

Out: -582.695 ± 546.443 $\chi^2/\text{NDF}: 73.8/49$

All: -456.961 ± 445.862 $\chi^2/\text{NDF}: 105.2/92$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2330.028 $\pm$ 0.695 χ^2 /NDF: 4916305.2/19

Left Out: 3013.268 $\pm$ 0.612 χ^2 /NDF:12270753.9/24

Right Out: 1604.513 $\pm$ 0.498 χ^2 /NDF: 10457633.9/24

Left In: 5084.645 $\pm$ 0.879 χ^2 /NDF:1303587.7/22

Left: 3689.075 $\pm$ 0.502 χ^2 /NDF: 17314385.8/47

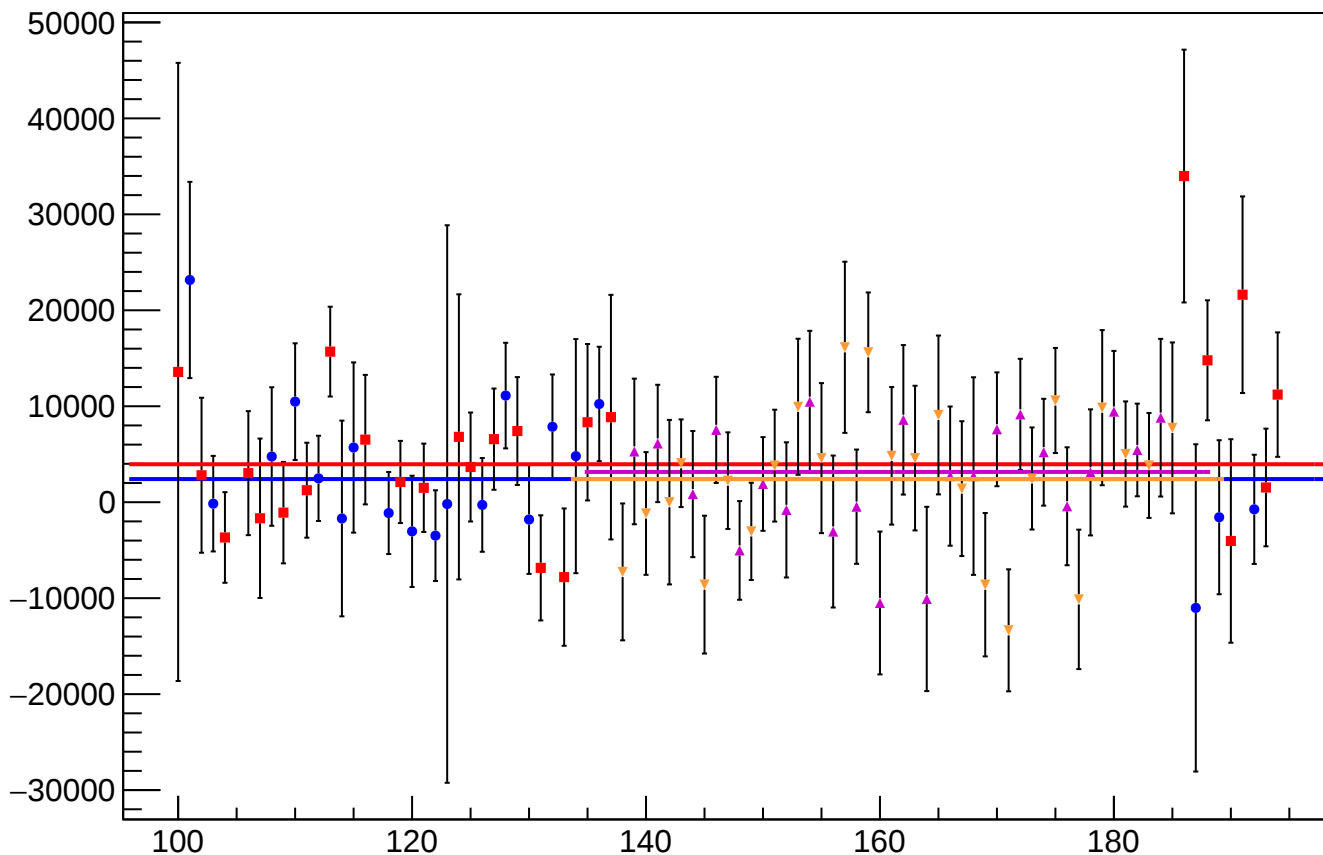
Right: 1850.789 $\pm$ 0.405 χ^2 /NDF: 16093324.2/44

In: 3389.832 $\pm$ 0.545 χ^2 /NDF:12260060.9/42

Out: 2166.455 $\pm$ 0.386 χ^2 /NDF:25915659.6/49

All: 2575.369 $\pm$ 0.315 χ^2 /NDF: 41526403.0/99

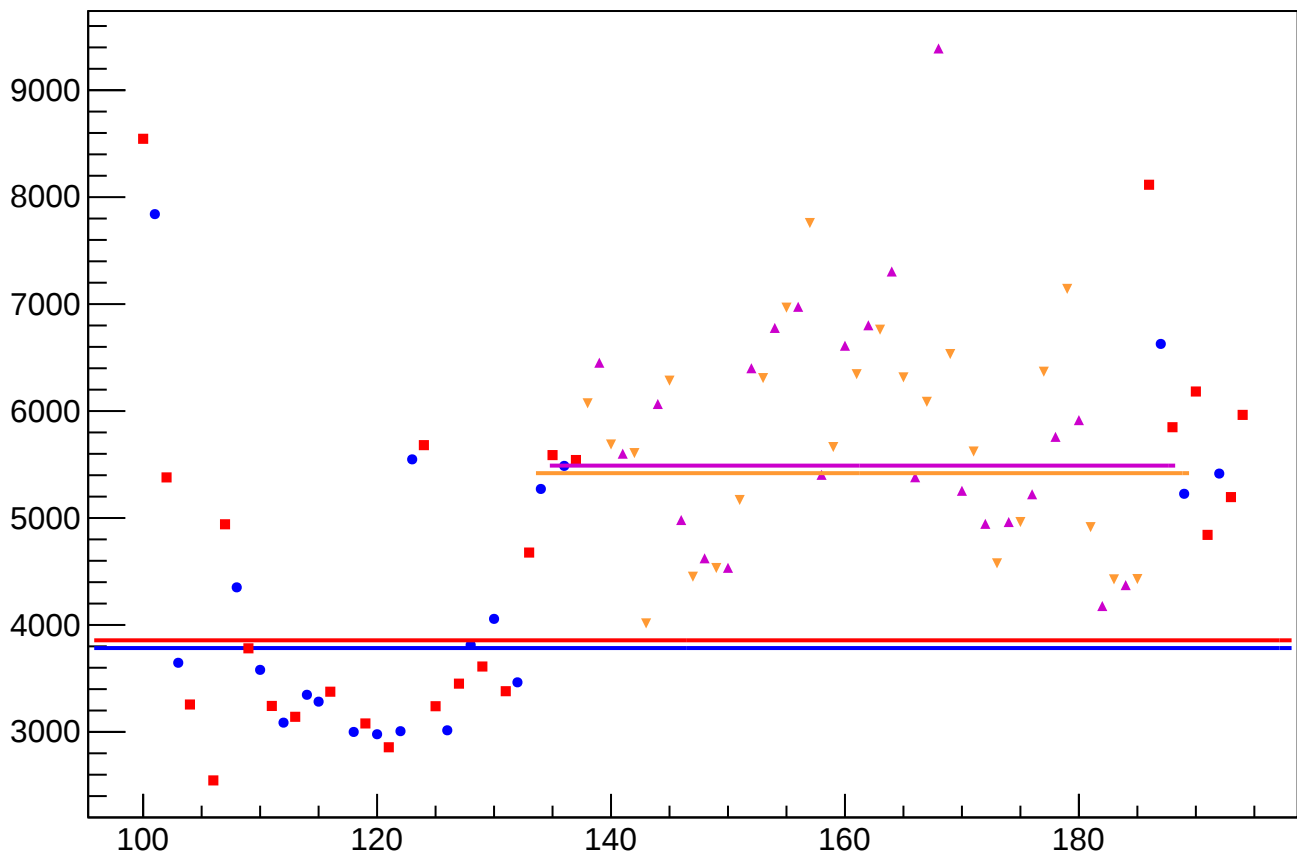
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2409.810+/-1381.386 χ^2/NDF : 17.0/19
 Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24
 Right Out: 3956.193+/-1266.930 χ^2/NDF : 32.2/24
 Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47
 Right: 3249.709+/-933.701 χ^2/NDF : 49.8/44
 In: 2793.663+/-960.851 χ^2/NDF : 32.6/42
 Out: 3198.485+/-902.688 χ^2/NDF : 62.8/49
 All: 3008.697+/-657.898 χ^2/NDF : 95.5/92

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3784.095 $\pm$ 0.977 χ^2/NDF : 1096518.5/19

Left Out: 5419.305 $\pm$ 0.910 χ^2/NDF : 1109972.1/24

Right Out: 3856.466 $\pm$ 0.885 χ^2/NDF : 1631290.1/24

Left In: 5489.885 $\pm$ 0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227 $\pm$ 0.656 χ^2/NDF : 2177218.7/47

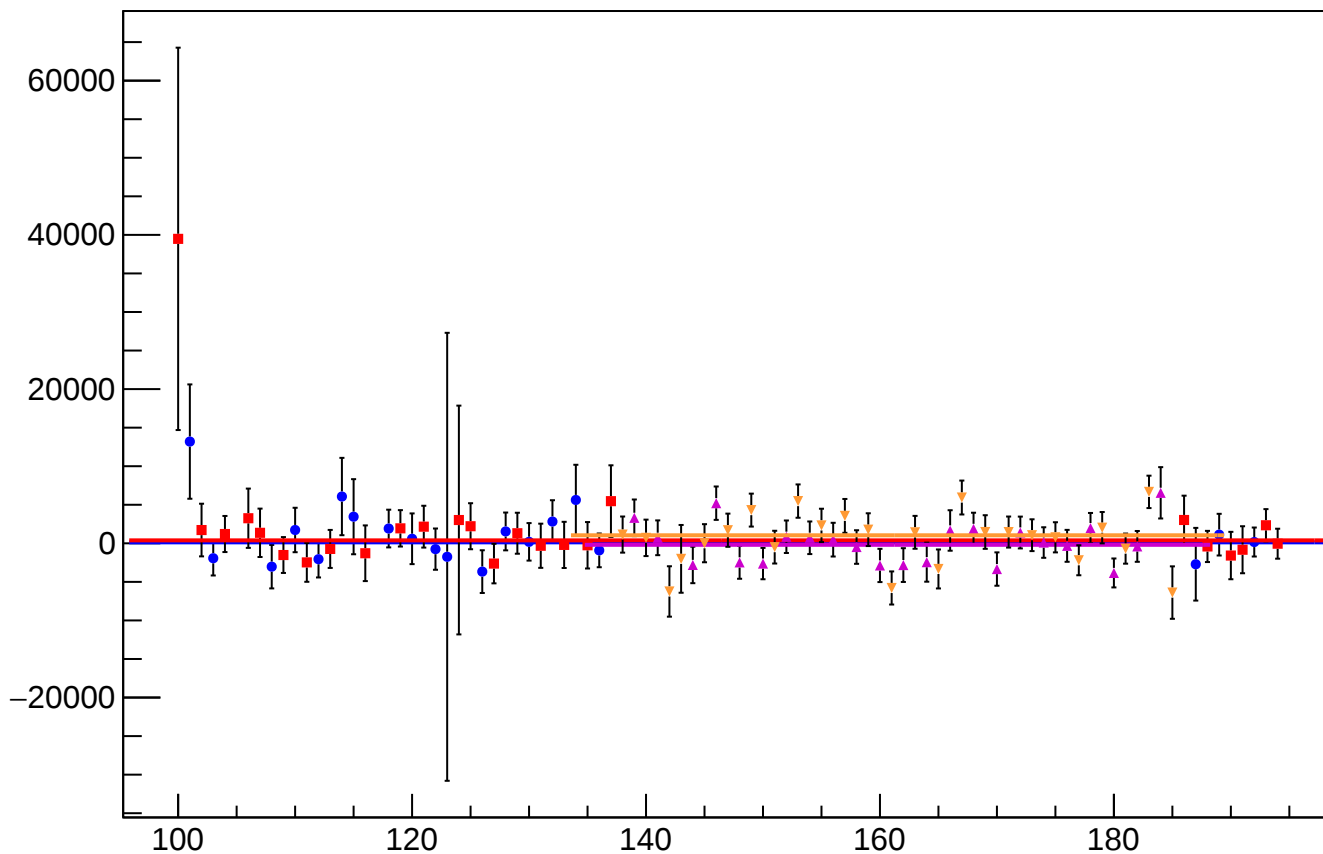
Right: 3823.827 $\pm$ 0.656 χ^2/NDF : 2730822.4/44

In: 4664.589 $\pm$ 0.679 χ^2/NDF : 3735061.2/42

Out: 4616.674 $\pm$ 0.634 χ^2/NDF : 4257099.4/49

All: 4638.994 $\pm$ 0.464 χ^2/NDF : 7994817.4/92

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 126.336 $\pm$ 639.837 χ^2 /NDF: 14.2/19

Left Out: 1041.262 $\pm$ 446.249 χ^2 /NDF:48.6/24

Right Out: 383.773 $\pm$ 559.840 χ^2 /NDF: 12.3/24

Left In: -191.966 $\pm$ 453.055 χ^2 /NDF:30.0/22

Left: 433.980 $\pm$ 317.925 χ^2 /NDF: 82.3/47

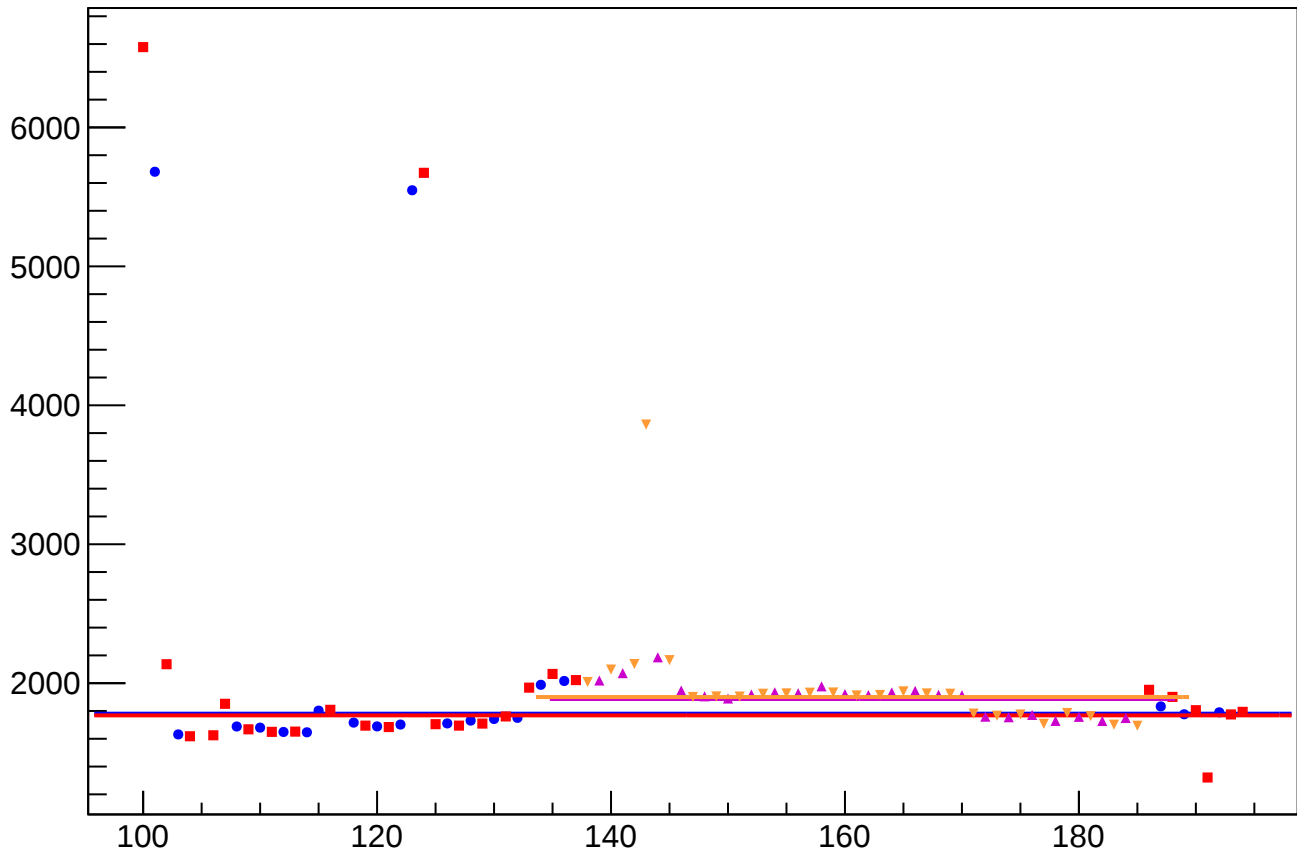
Right: 272.145 $\pm$ 421.328 χ^2 /NDF: 26.6/44

In: -85.671 $\pm$ 369.748 χ^2 /NDF:44.4/42

Out: 785.816 $\pm$ 348.955 χ^2 /NDF:61.7/49

All: 375.265 $\pm$ 253.781 χ^2 /NDF: 109.0/92

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1780.510+/-0.452 χ^2/NDF : 643308.7/19

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1768.516+/-0.394 χ^2/NDF : 364696.3/24

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

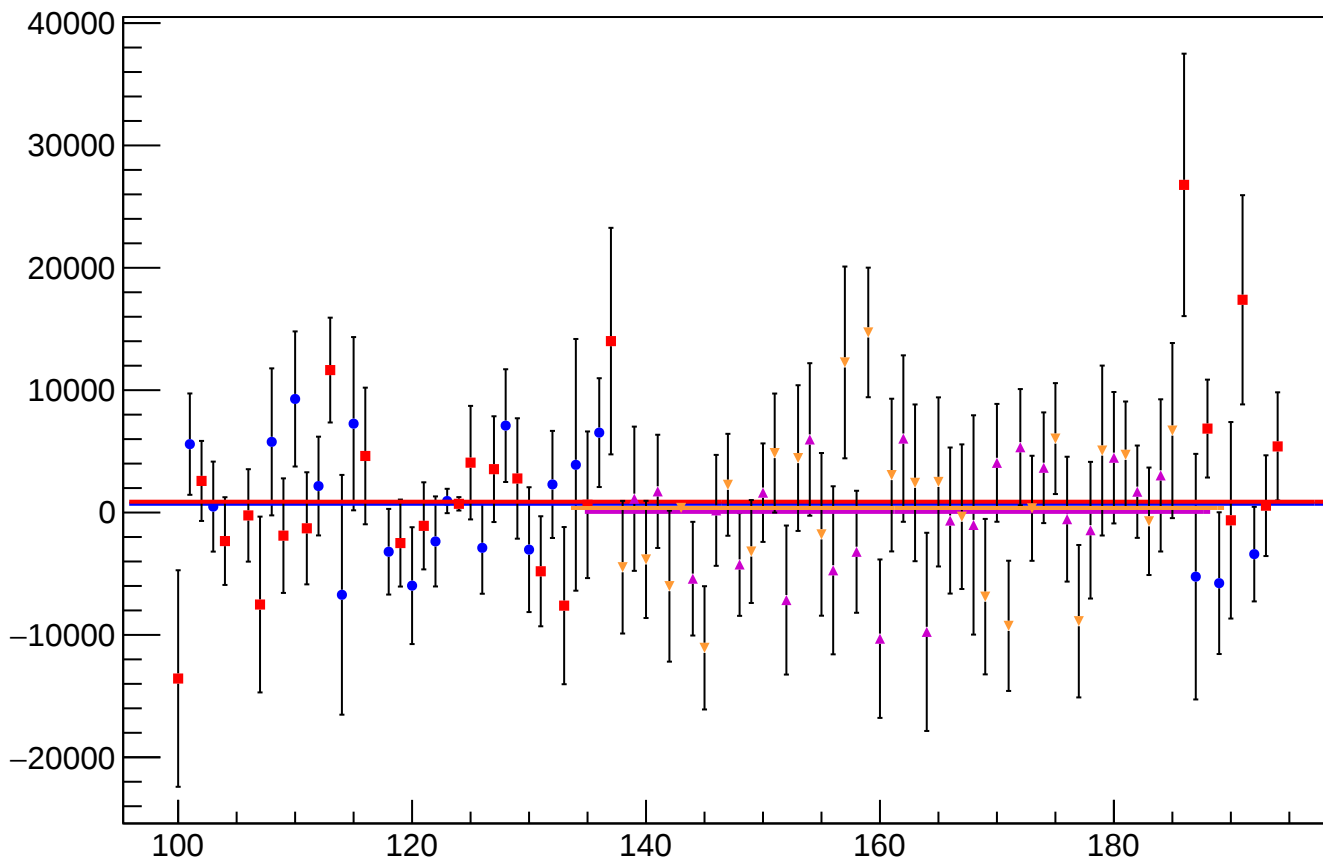
Right: 1773.690+/-0.297 χ^2/NDF : 1008404.6/44

In: 1851.024+/-0.261 χ^2/NDF : 803298.8/42

Out: 1848.807+/-0.246 χ^2/NDF : 970731.2/49

All: 1849.850+/-0.179 χ^2/NDF : 1774068.1/92

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 716.242 $\pm$ 731.503 χ^2 /NDF: 18.1/19

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 885.175 $\pm$ 476.461 χ^2 /NDF: 33.1/24

Left In: 53.099 $\pm$ 1089.888 χ^2 /NDF:14.5/22

Left: 338.236 $\pm$ 360.558 χ^2 /NDF: 45.4/47

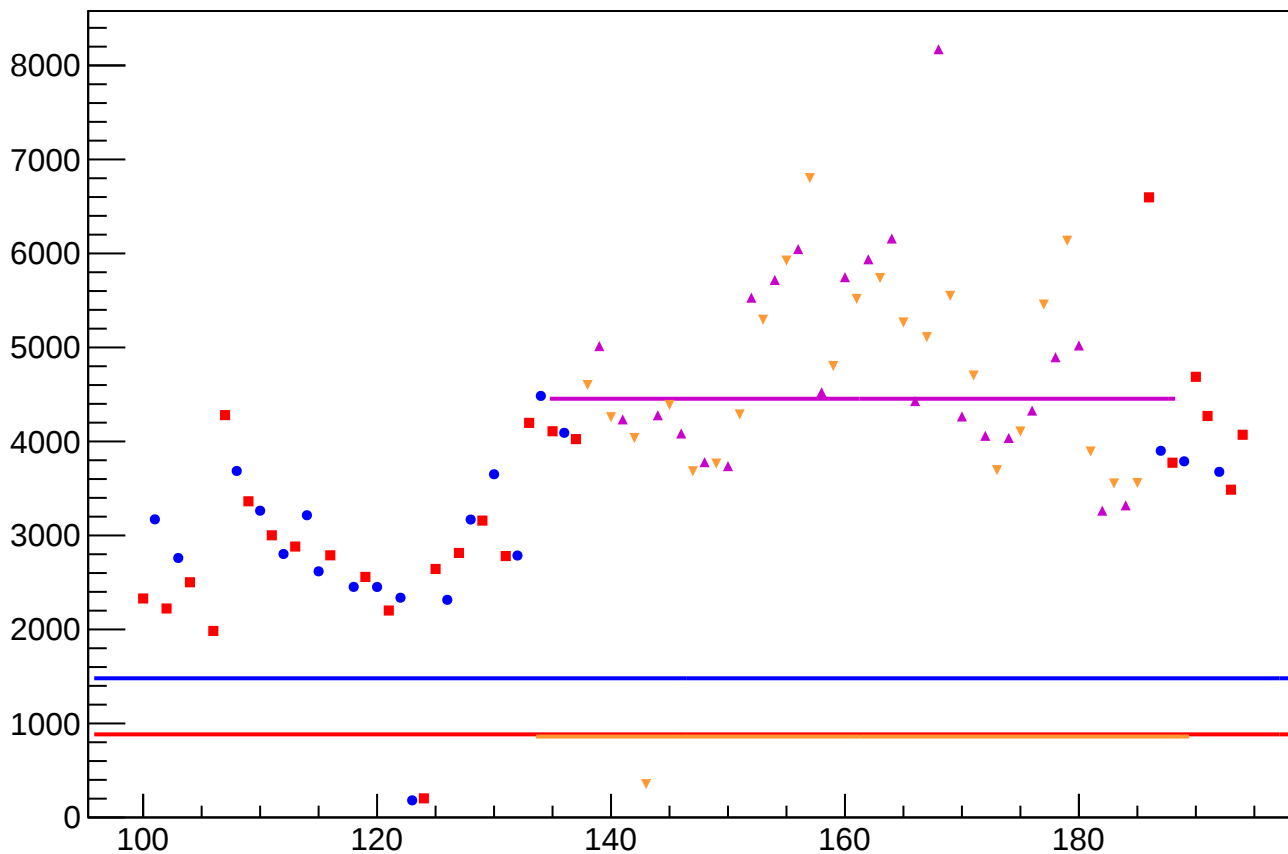
Right: 834.854 $\pm$ 399.240 χ^2 /NDF: 51.2/44

In: 510.290 $\pm$ 607.381 χ^2 /NDF:32.9/42

Out: 573.618 $\pm$ 298.072 χ^2 /NDF:64.6/49

All: 561.327 $\pm$ 267.586 χ^2 /NDF: 97.5/92

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1480.599+/-0.517 χ^2/NDF : 7980533.6/19

Left Out: 860.545+/-0.270 χ^2/NDF : 26340106.5/24

Right Out: 883.948+/-0.337 χ^2/NDF : 13896909.4/24

Left In: 4454.402+/-0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867+/-0.255 χ^2/NDF : 47056303.3/47

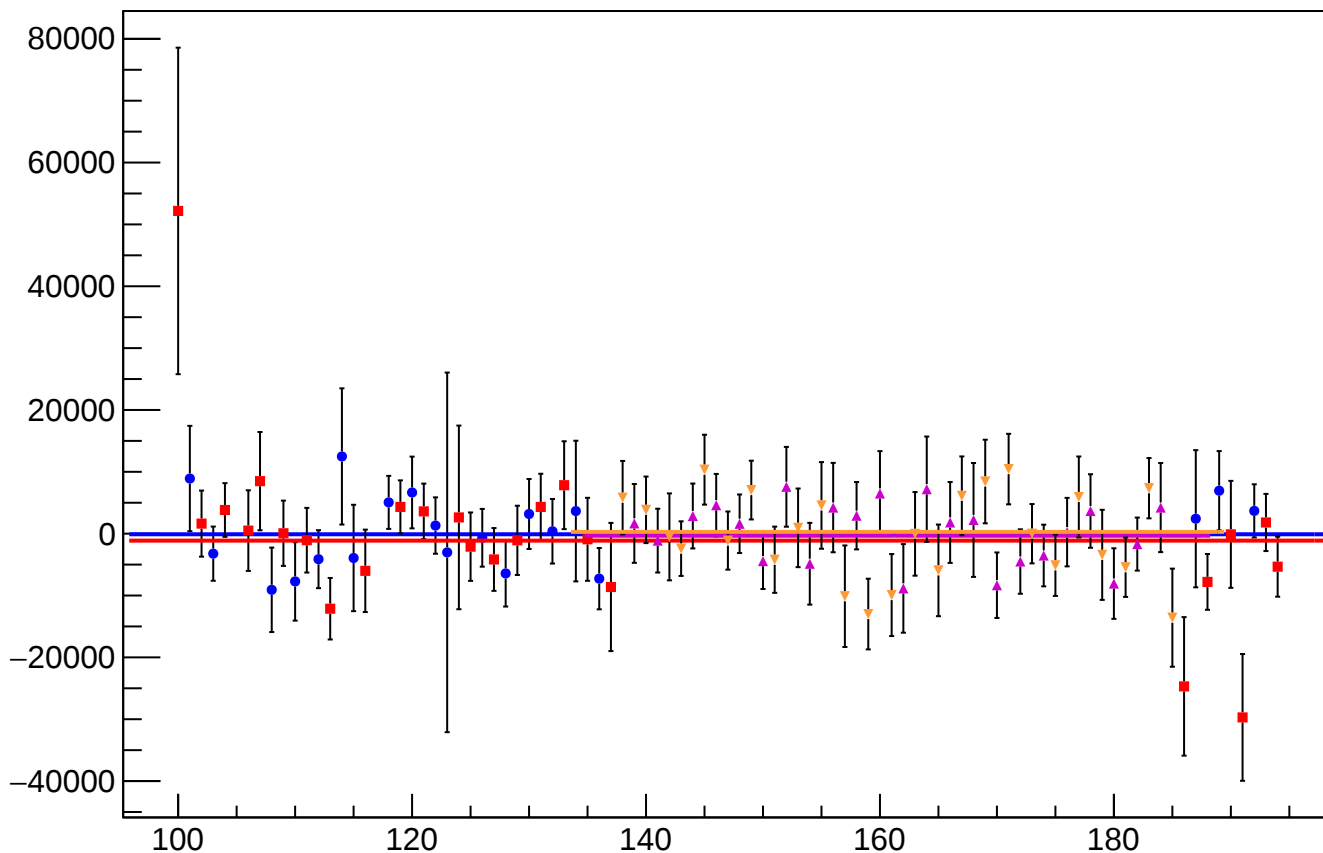
Right: 1061.676+/-0.282 χ^2/NDF : 22811670.1/44

In: 2404.173+/-0.429 χ^2/NDF : 19595814.3/42

Out: 869.704+/-0.211 χ^2/NDF : 40239952.5/49

All: 1167.531+/-0.189 χ^2/NDF : 70123247.2/99

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -97.331 ± 1294.596 χ^2/NDF : 16.0/19

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -1123.199 ± 1168.959 χ^2/NDF : 34.6/24

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

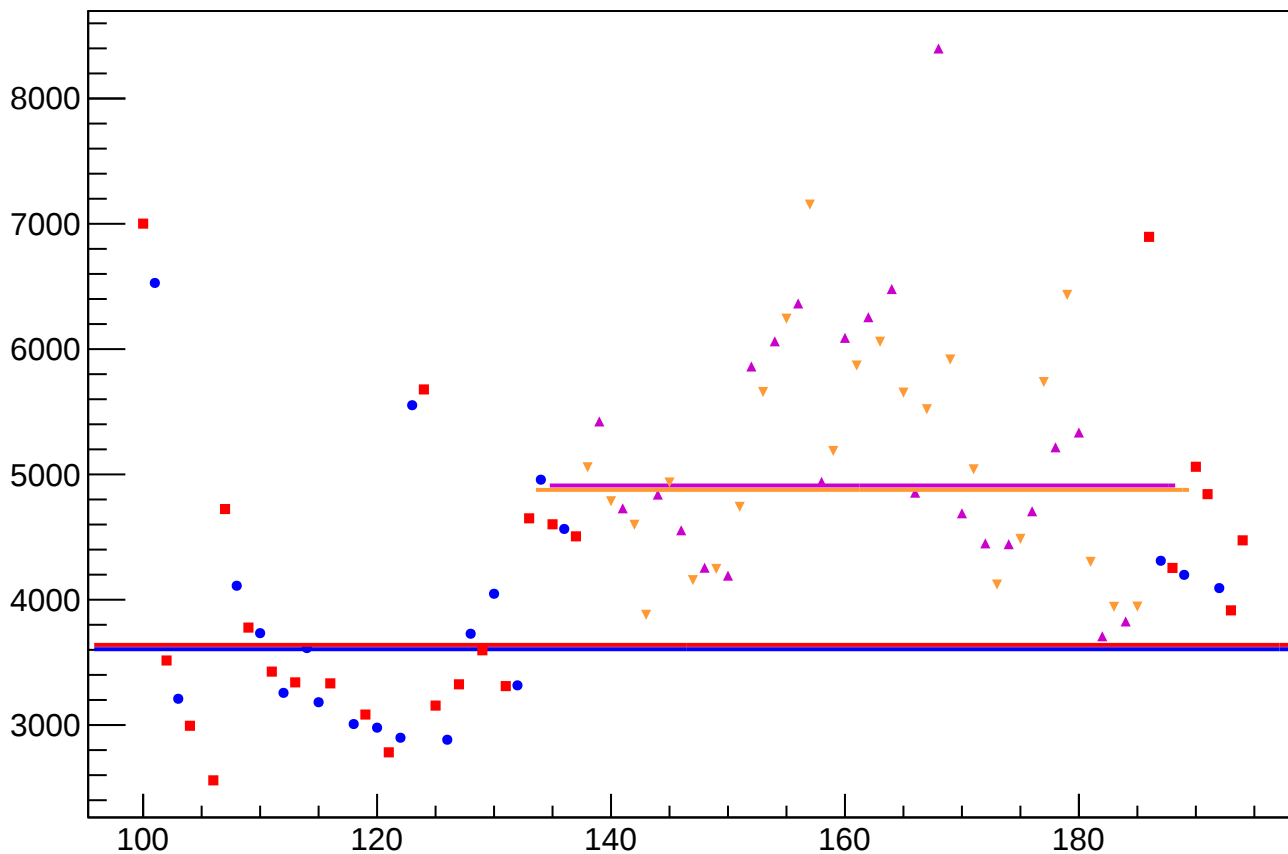
Right: -662.446 ± 867.605 χ^2/NDF : 50.9/44

In: -224.203 ± 878.495 χ^2/NDF : 30.6/42

Out: -409.122 ± 821.750 χ^2/NDF : 67.7/49

All: -322.827 ± 600.124 χ^2/NDF : 98.4/92

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3604.973 $\pm$ 0.915 χ^2 /NDF: 620276.0/19

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3639.491 $\pm$ 0.818 χ^2 /NDF: 845601.0/24

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF: 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

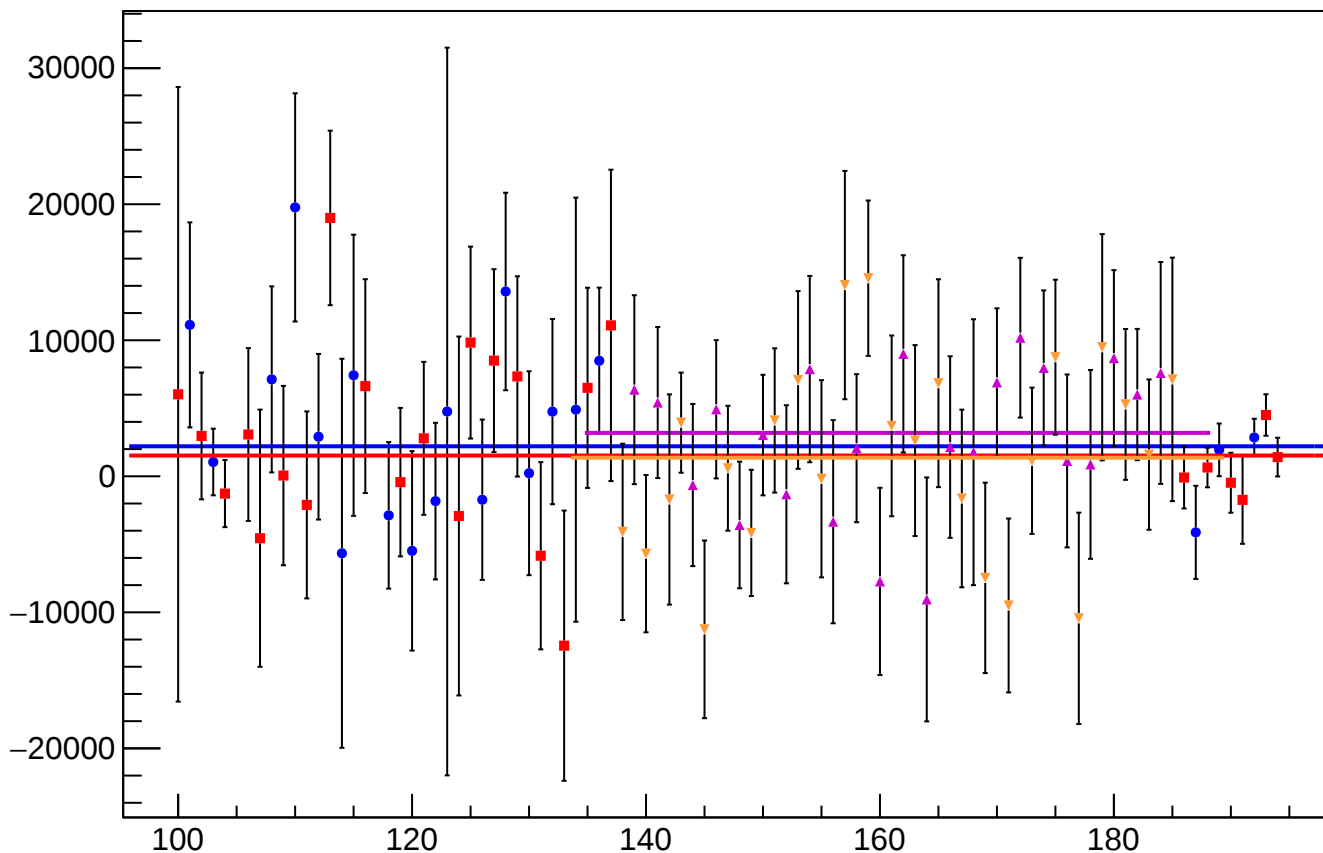
Right: 3624.160 $\pm$ 0.610 χ^2 /NDF: 1466667.4/44

In: 4309.893 $\pm$ 0.621 χ^2 /NDF: 2762547.5/42

Out: 4258.988 $\pm$ 0.578 χ^2 /NDF: 2962684.3/49

All: 4282.616 $\pm$ 0.423 χ^2 /NDF: 5728830.1/92

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2205.007 $\pm$ 859.110 χ^2 /NDF: 17.8/19

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 1525.517 $\pm$ 643.674 χ^2 /NDF: 24.3/24

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

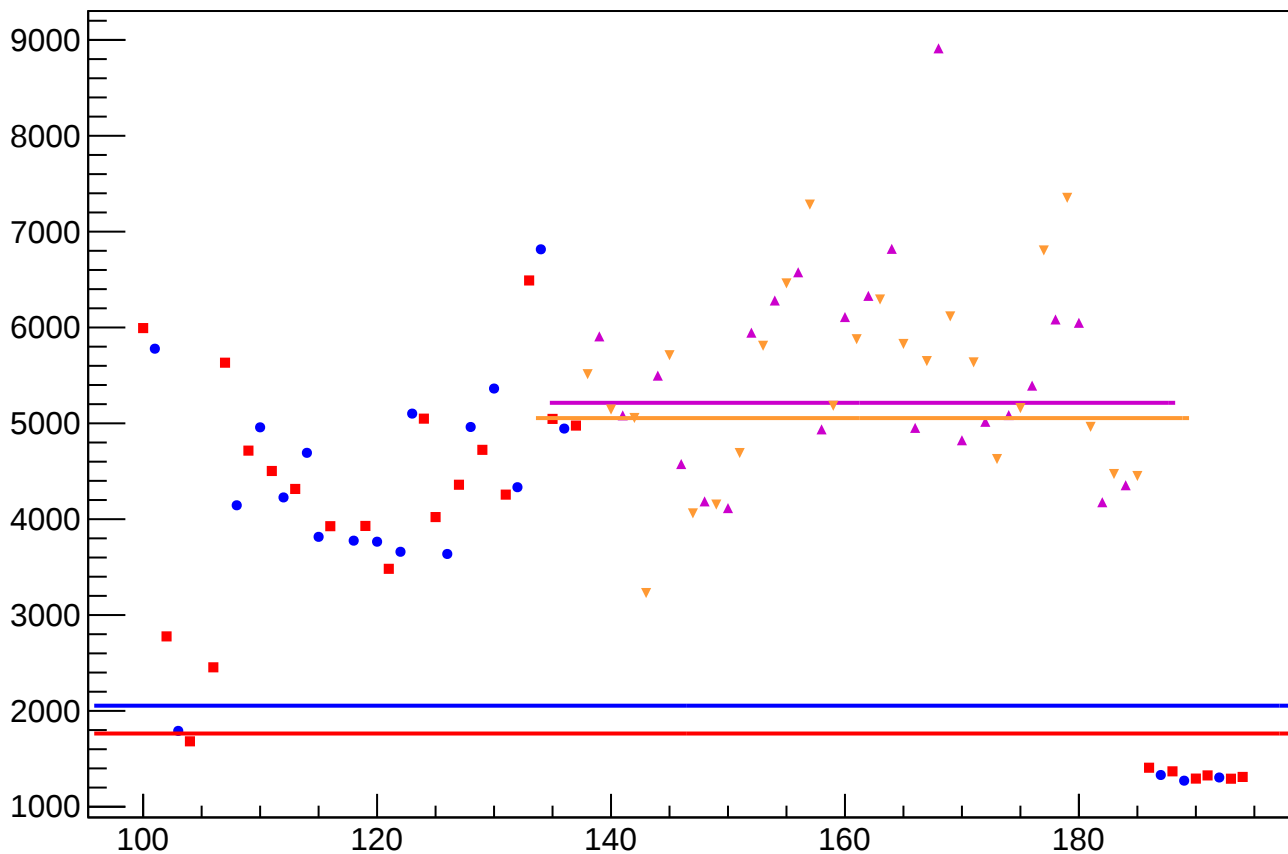
Right: 1769.814 $\pm$ 515.129 χ^2 /NDF: 42.4/44

In: 2514.595 $\pm$ 711.592 χ^2 /NDF:32.2/42

Out: 1489.960 $\pm$ 567.883 χ^2 /NDF:52.2/49

All: 1888.626 $\pm$ 443.865 χ^2 /NDF: 85.7/92

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2054.290+/-0.607 χ^2/NDF : 4670423.7/19

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1763.912+/-0.454 χ^2/NDF : 5161608.9/24

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

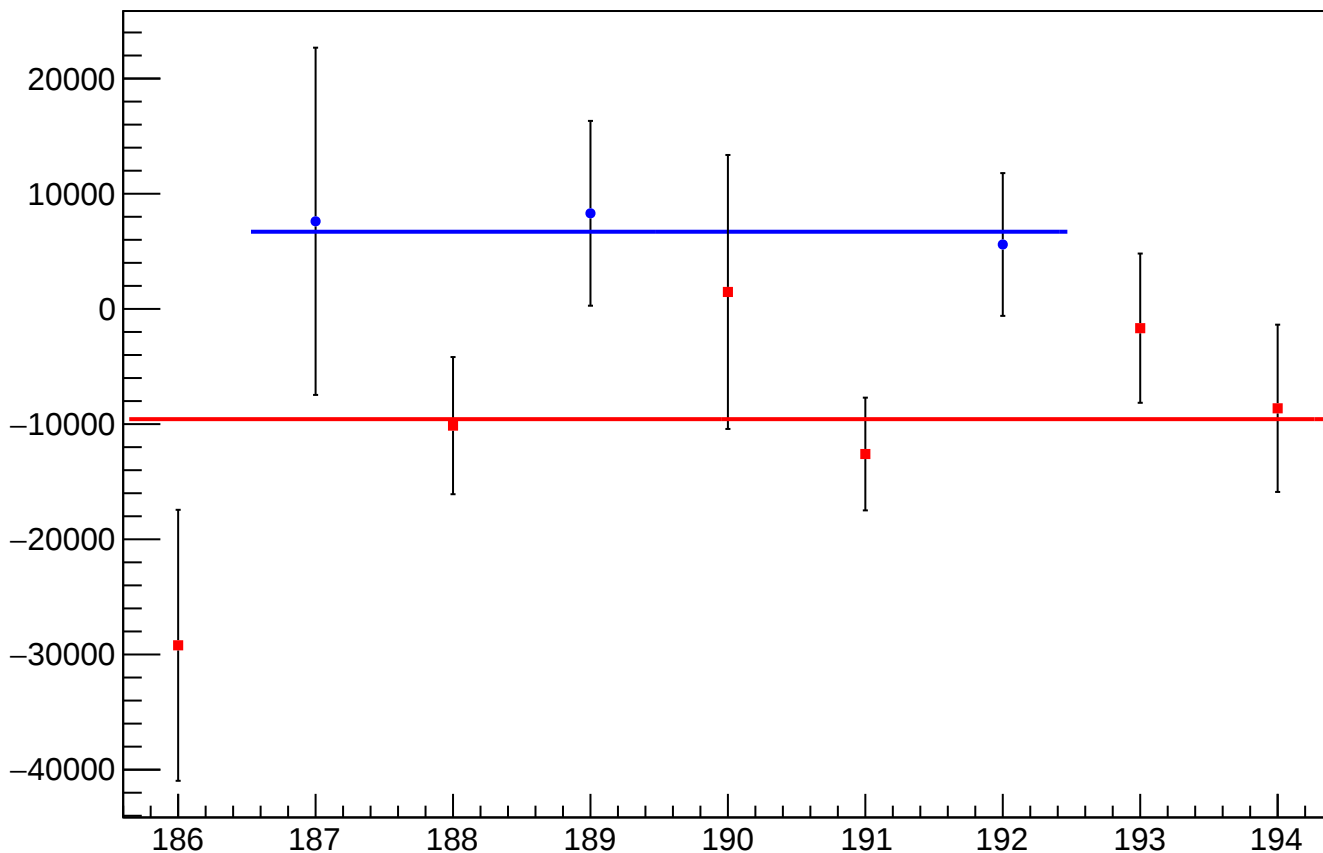
Right: 1868.044+/-0.364 χ^2/NDF : 9978584.7/44

In: 3046.261+/-0.503 χ^2/NDF : 14216739.2/42

Out: 2490.979+/-0.401 χ^2/NDF : 18195060.6/49

All: 2706.618+/-0.314 χ^2/NDF : 33156719.6/99

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 6701.763+/-4663.654 χ^2/NDF : 0.1/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -9569.109+/-2805.502 χ^2/NDF : 5.5/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

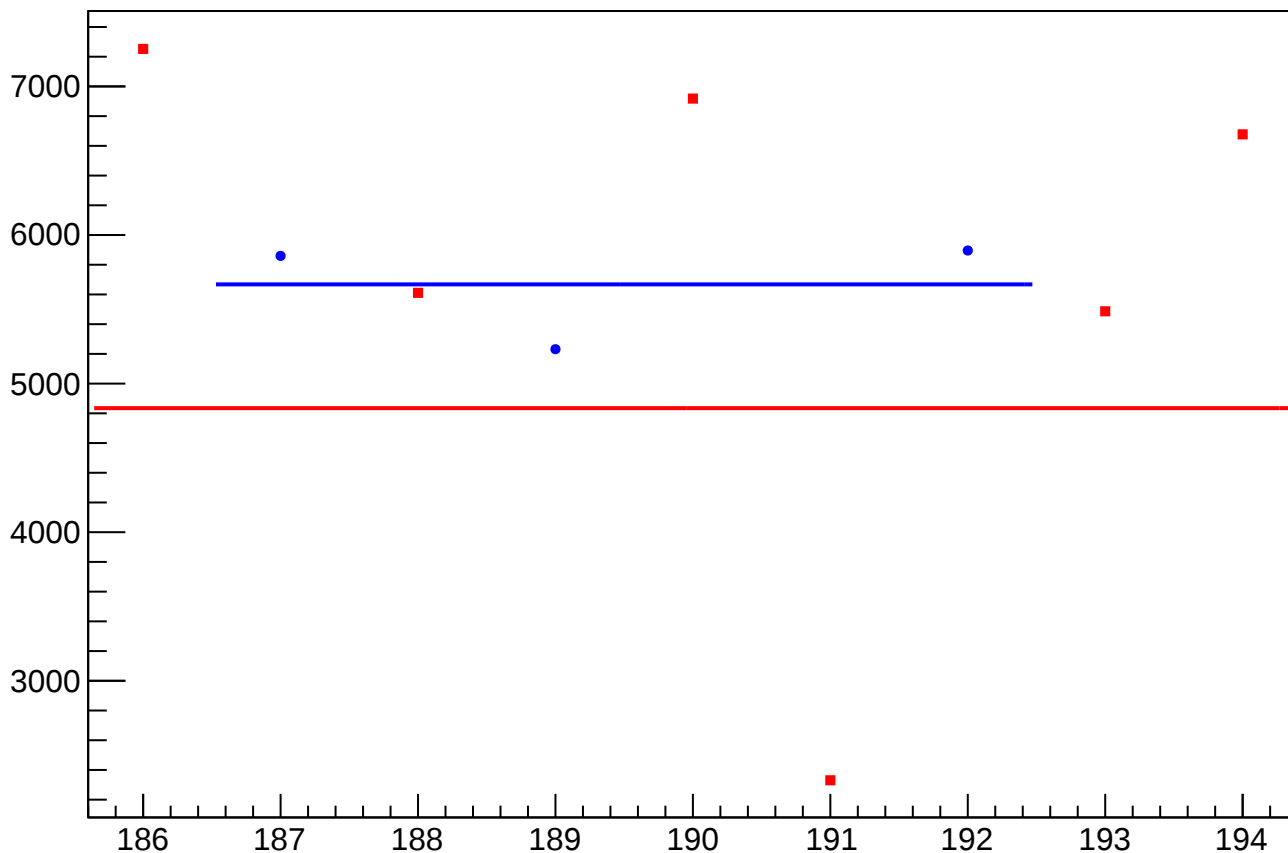
Right: -5245.569+/-2404.034 χ^2/NDF : 14.6/8

In: 6701.763+/-4663.654 χ^2/NDF : 0.1/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -5245.569+/-2404.034 χ^2/NDF : 14.6/8

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5667.780+/-3.298 χ^2/NDF : 8941.3/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4834.934+/-1.984 χ^2/NDF : 852634.7/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

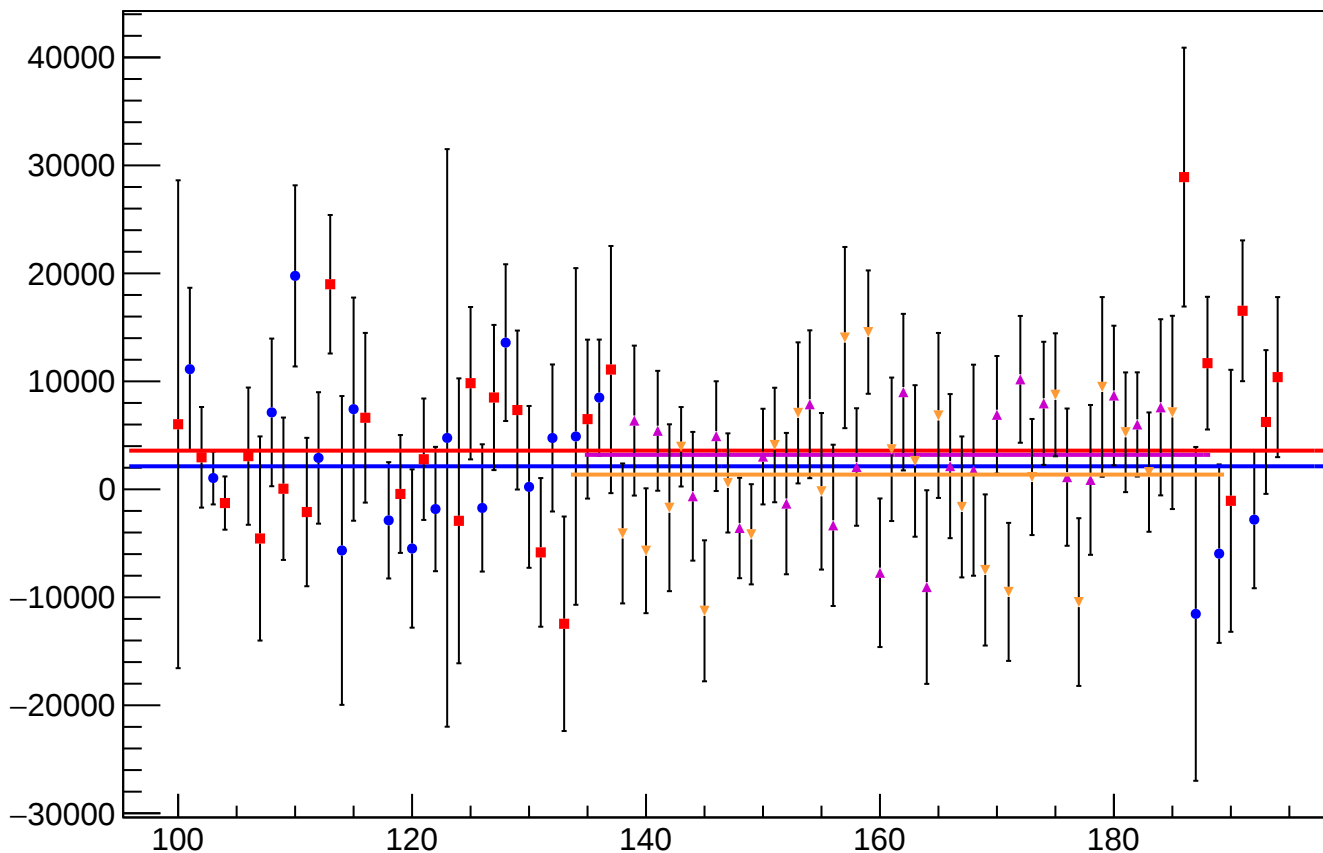
Right: 5056.240+/-1.700 χ^2/NDF : 908410.5/8

In: 5667.780+/-3.298 χ^2/NDF : 8941.3/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5056.240+/-1.700 χ^2/NDF : 908410.5/8

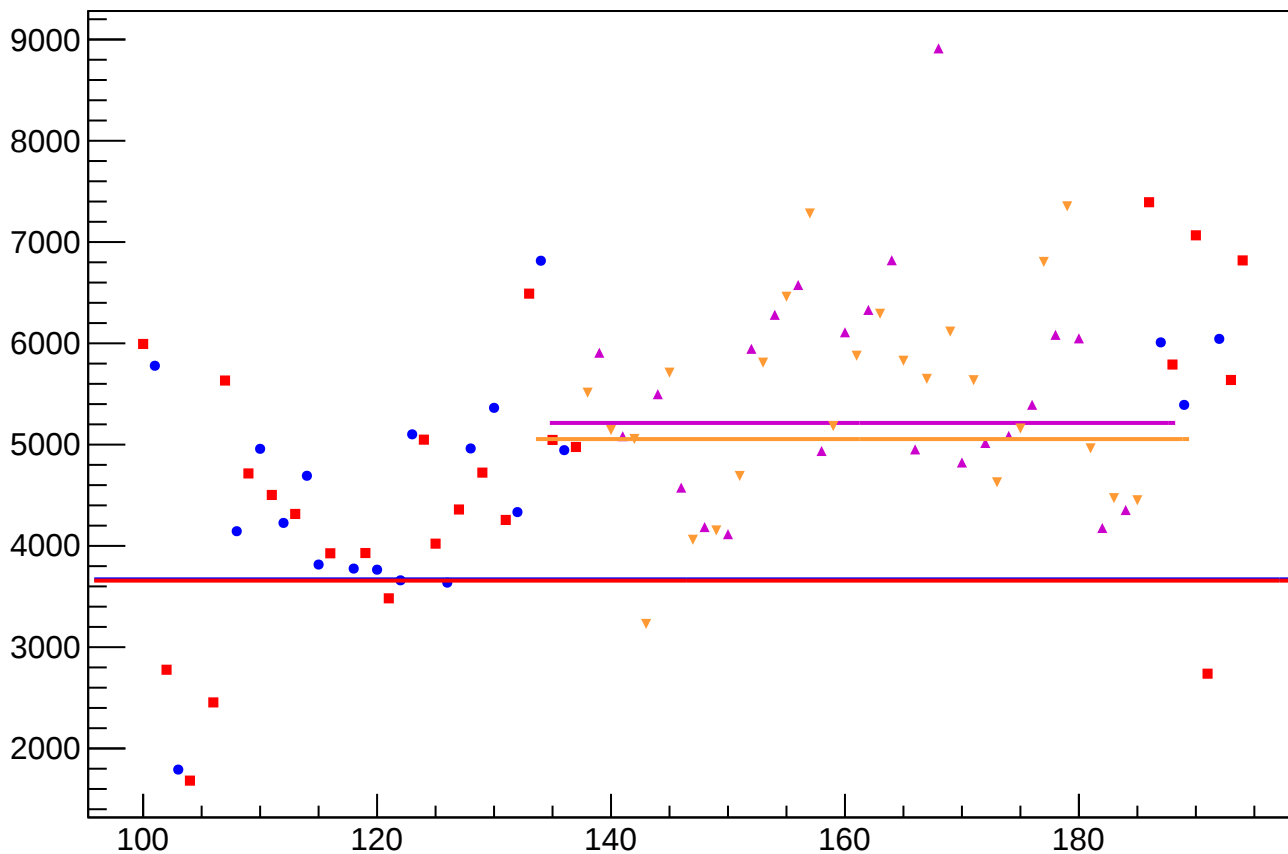
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2133.008 $\pm$ 1392.989 χ^2 /NDF: 16.5/19
 Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24
 Right Out: 3583.333 $\pm$ 1263.239 χ^2 /NDF: 30.3/24
 Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47
 Right: 2928.846 $\pm$ 935.762 χ^2 /NDF: 47.4/44
 In: 2710.841 $\pm$ 938.509 χ^2 /NDF:30.8/42
 Out: 2423.060 $\pm$ 872.406 χ^2 /NDF:59.9/49
 All: 2556.460 $\pm$ 638.976 χ^2 /NDF: 90.7/92

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3669.591 $\pm$ 0.985 χ^2 /NDF: 2215371.1/19

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF: 1437224.7/24

Right Out: 3657.169 $\pm$ 0.886 χ^2 /NDF: 3216269.9/24

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF: 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

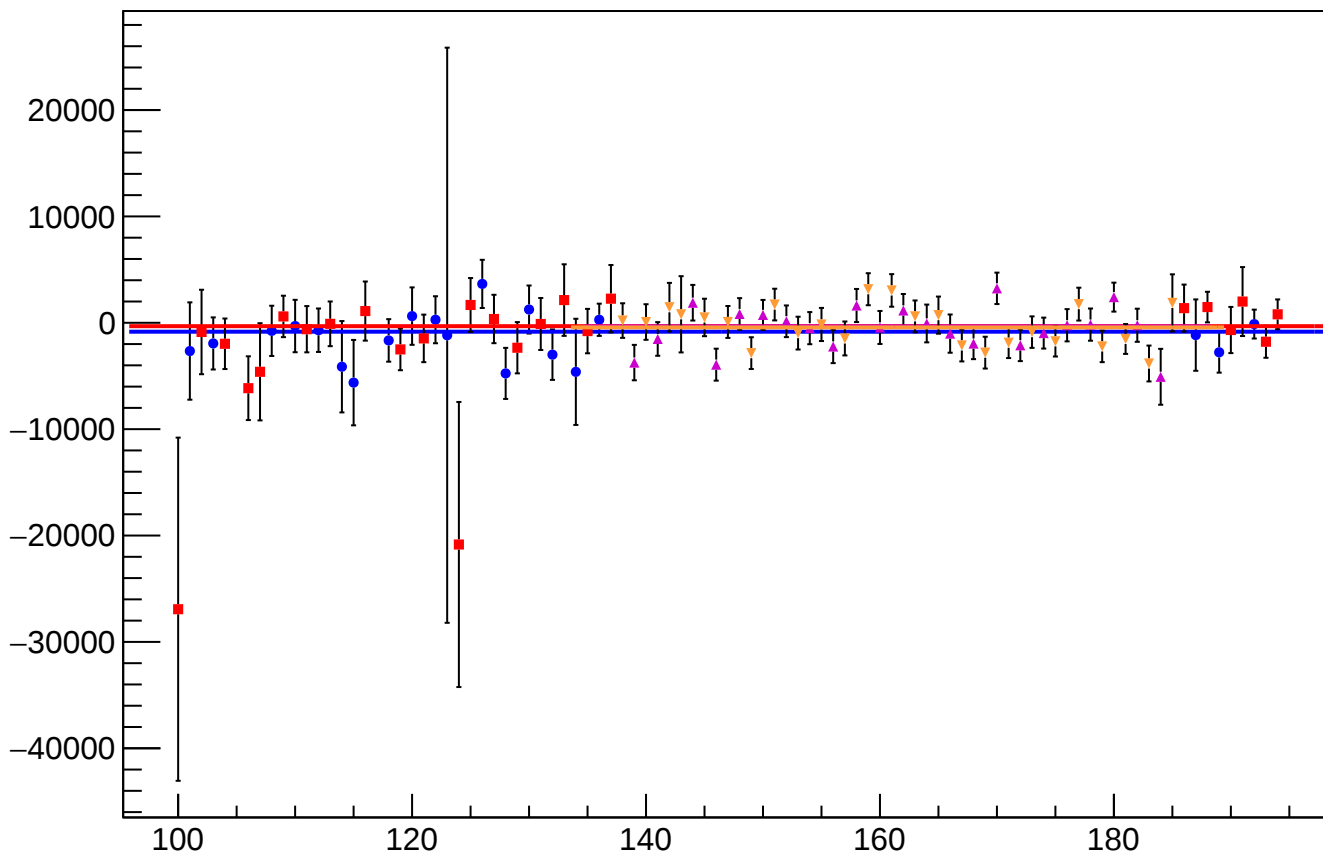
Right: 3662.727 $\pm$ 0.659 χ^2 /NDF: 5431728.8/44

In: 4513.007 $\pm$ 0.664 χ^2 /NDF: 4610613.5/42

Out: 4382.803 $\pm$ 0.615 χ^2 /NDF: 5944171.5/49

All: 4442.921 $\pm$ 0.451 χ^2 /NDF: 10575506.2/9

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -836.908+/-524.741 χ^2 /NDF: 13.9/19

Left Out: -431.715+/-320.540 χ^2 /NDF:33.1/24

Right Out: -319.004+/-458.642 χ^2 /NDF: 19.2/24

Left In: -343.737+/-324.368 χ^2 /NDF:33.8/22

Left: -388.248+/-227.997 χ^2 /NDF: 66.9/47

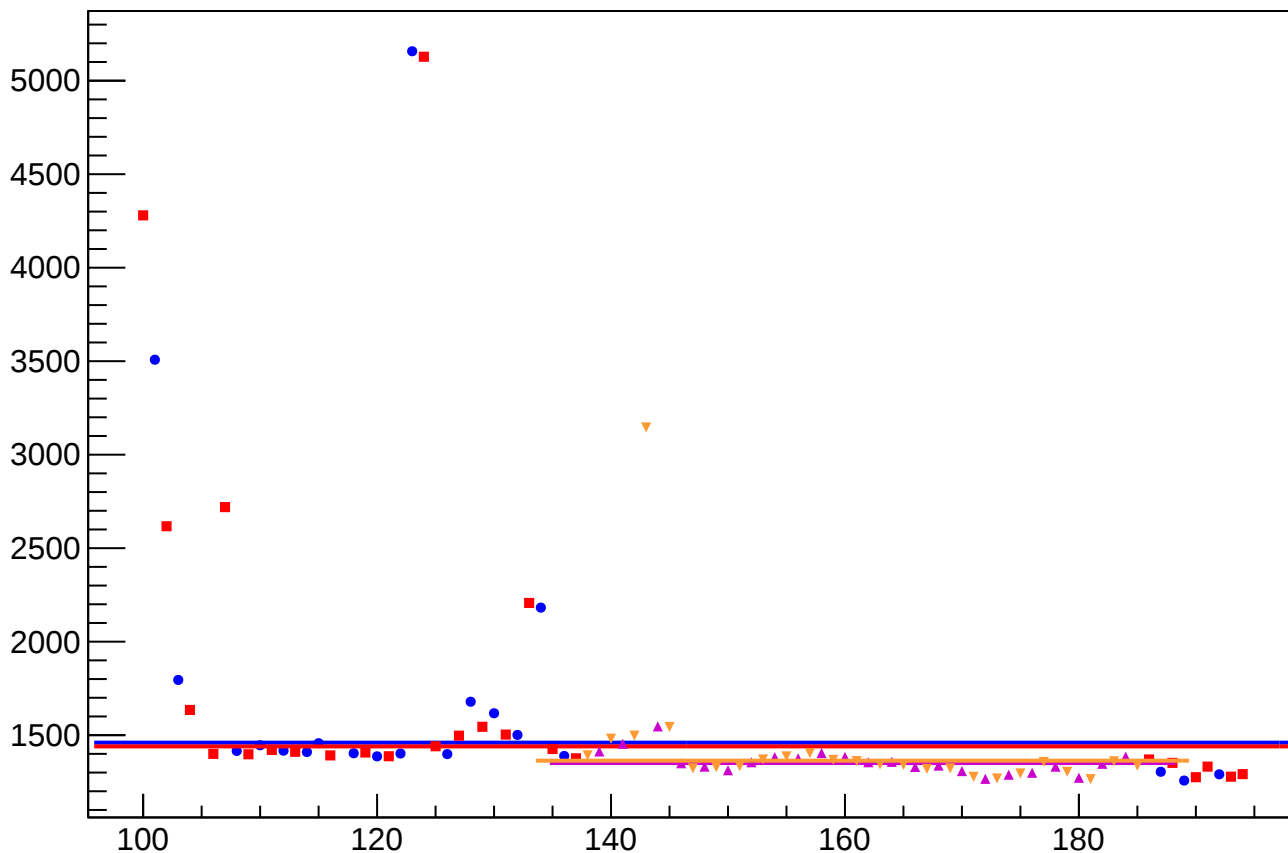
Right: -543.301+/-345.328 χ^2 /NDF: 33.6/44

In: -480.083+/-275.910 χ^2 /NDF:48.3/42

Out: -394.728+/-262.734 χ^2 /NDF:52.3/49

All: -435.319+/-190.268 χ^2 /NDF: 100.6/92

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.057 $\pm$ 0.371 χ^2 /NDF: 614658.8/19

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1439.825 $\pm$ 0.324 χ^2 /NDF: 743971.7/24

Left In: 1350.909 $\pm$ 0.229 χ^2 /NDF: 67144.5/22

Left: 1357.310 $\pm$ 0.161 χ^2 /NDF: 643910.7/47

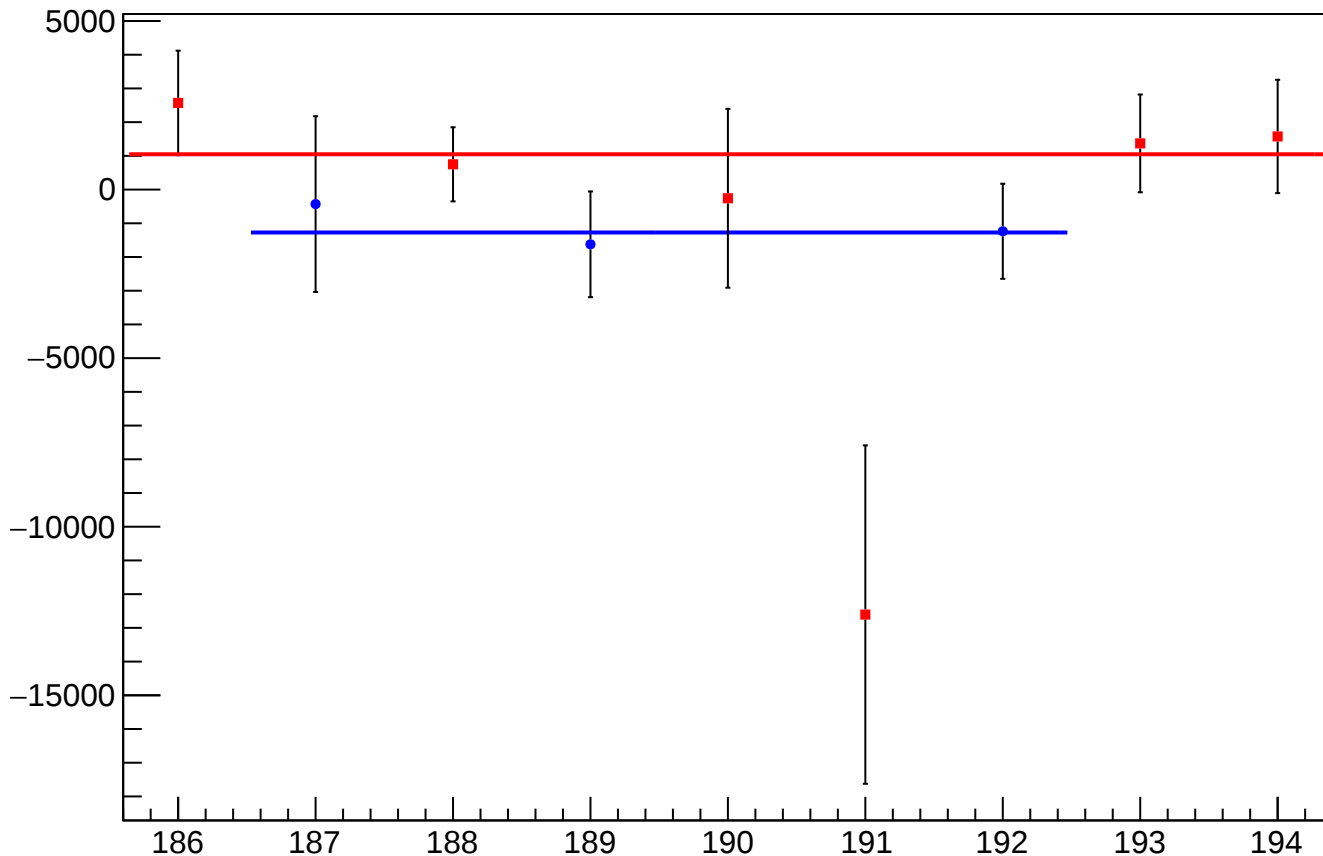
Right: 1448.587 $\pm$ 0.244 χ^2 /NDF: 1360316.0/44

In: 1381.085 $\pm$ 0.195 χ^2 /NDF: 744411.7/42

Out: 1388.588 $\pm$ 0.186 χ^2 /NDF: 1356350.6/49

All: 1385.020 $\pm$ 0.135 χ^2 /NDF: 2101538.0/92

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -1272.879+/-972.777 χ^2/NDF : 0.2/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1047.487+/-665.999 χ^2/NDF : 8.8/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

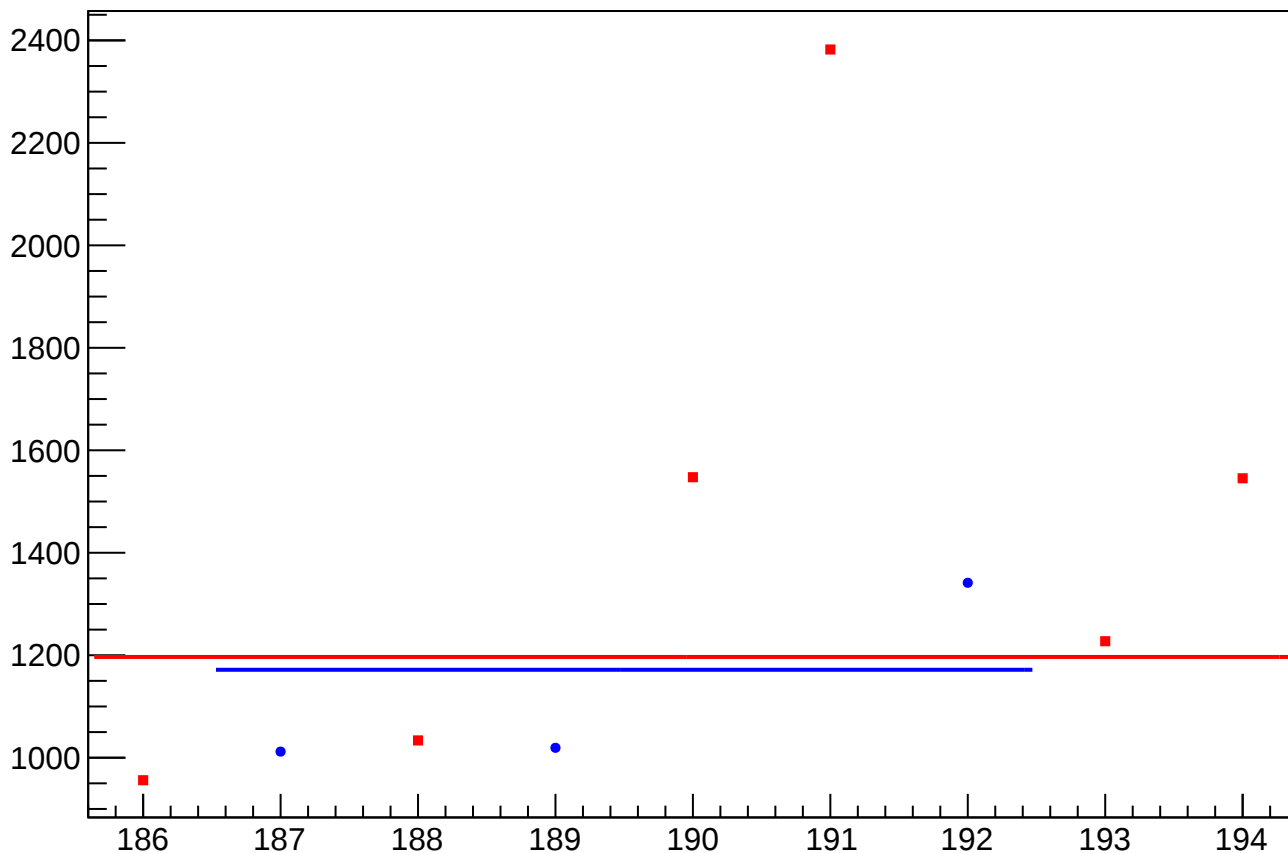
Right: 306.968+/-549.545 χ^2/NDF : 12.9/8

In: -1272.879+/-972.777 χ^2/NDF : 0.2/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 306.968+/-549.545 χ^2/NDF : 12.9/8

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1171.639+/-0.688 χ^2/NDF : 55356.9/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1196.665+/-0.471 χ^2/NDF : 325606.2/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

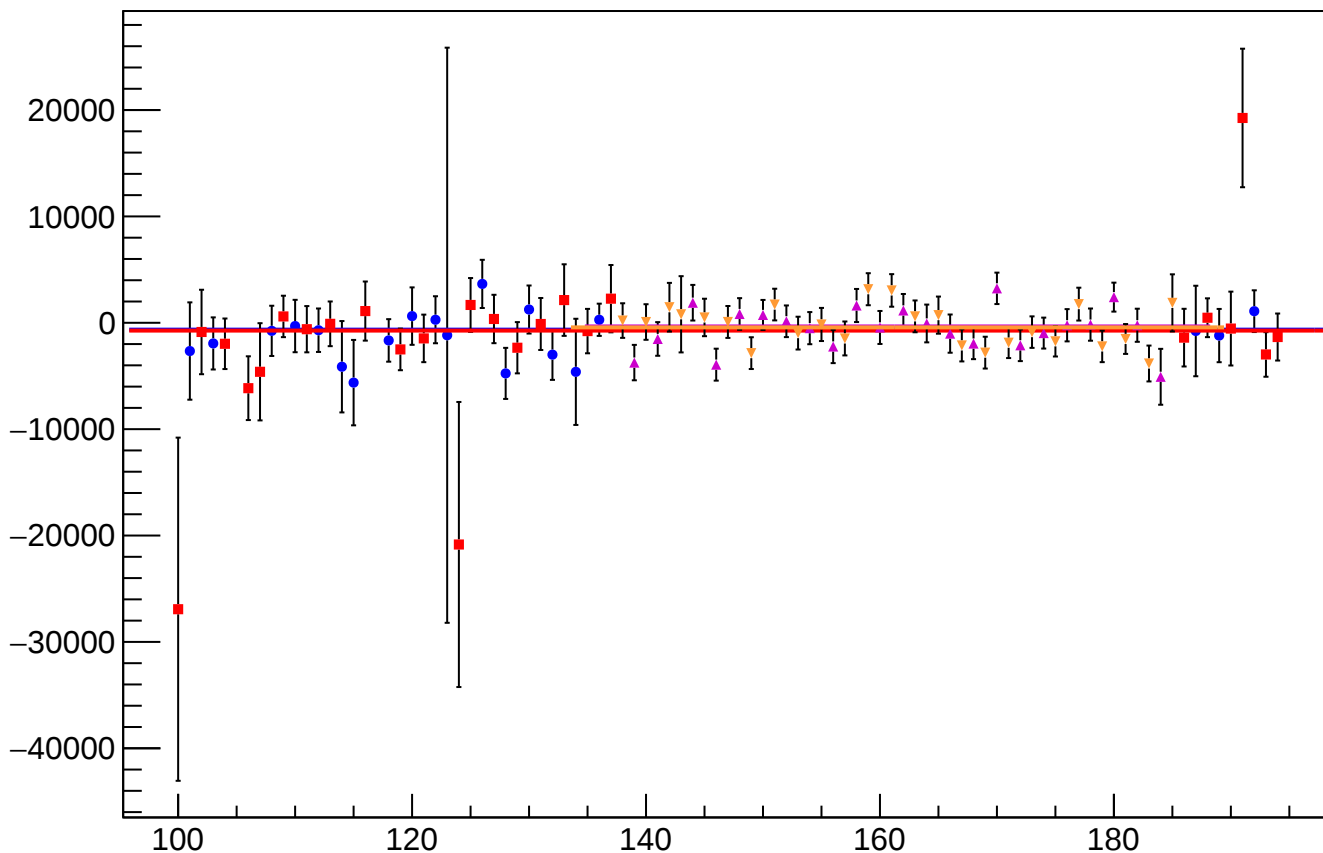
Right: 1188.678+/-0.389 χ^2/NDF : 381864.3/8

In: 1171.639+/-0.688 χ^2/NDF : 55356.9/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1188.678+/-0.389 χ^2/NDF : 381864.3/8

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -644.335+/-558.904 χ^2/NDF : 13.4/19

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -732.574+/-514.037 χ^2/NDF : 25.5/24

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

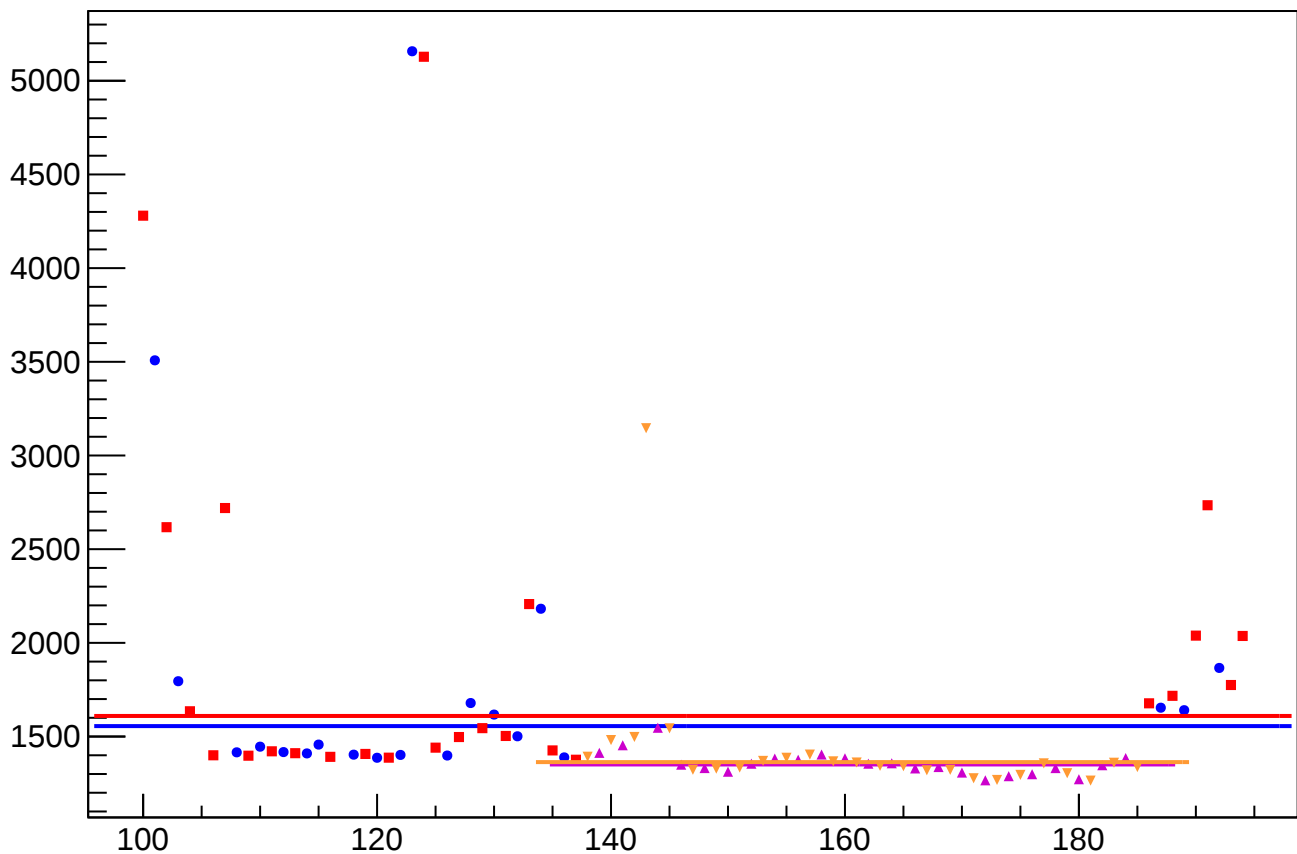
Right: -692.138+/-378.348 χ^2/NDF : 38.9/44

In: -419.475+/-280.544 χ^2/NDF : 47.4/42

Out: -515.948+/-271.992 χ^2/NDF : 58.8/49

All: -469.205+/-195.281 χ^2/NDF : 106.3/92

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1555.717 $\pm$ 0.395 χ^2 /NDF: 598426.4/19

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1609.836 $\pm$ 0.363 χ^2 /NDF: 853825.5/24

Left In: 1350.909 $\pm$ 0.229 χ^2 /NDF: 67144.5/22

Left: 1357.310 $\pm$ 0.161 χ^2 /NDF: 643910.7/47

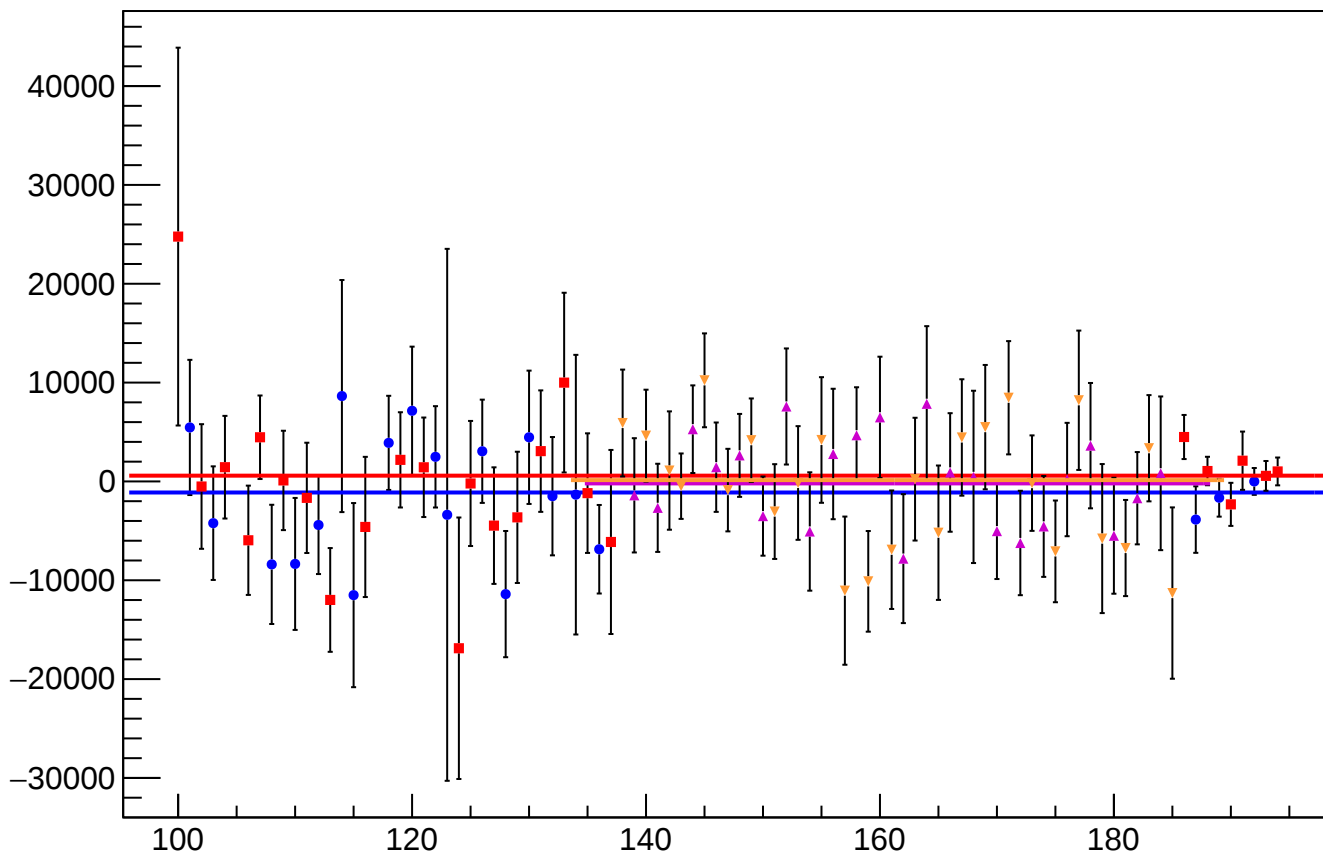
Right: 1585.036 $\pm$ 0.268 χ^2 /NDF: 1462410.9/44

In: 1402.512 $\pm$ 0.198 χ^2 /NDF: 866470.9/42

Out: 1432.513 $\pm$ 0.192 χ^2 /NDF: 1759598.1/49

All: 1417.977 $\pm$ 0.138 χ^2 /NDF: 2637858.6/92

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1119.794 ± 864.210 $\chi^2/\text{NDF}: 16.4/19$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 583.533 ± 635.116 $\chi^2/\text{NDF}: 20.5/24$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

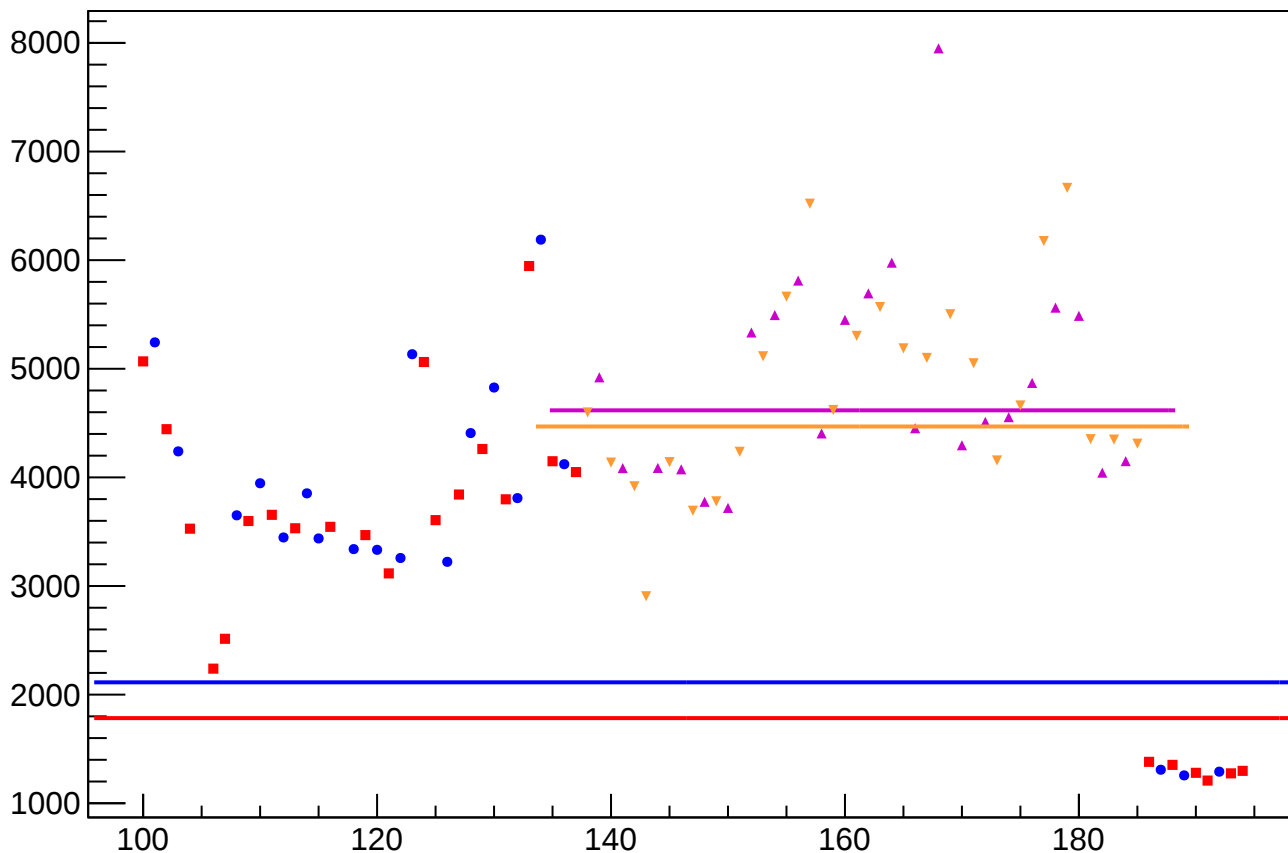
Right: -13.803 ± 511.775 $\chi^2/\text{NDF}: 39.5/44$

In: -777.941 ± 684.999 $\chi^2/\text{NDF}: 31.6/42$

Out: 465.204 ± 545.556 $\chi^2/\text{NDF}: 48.8/49$

All: -17.284 ± 426.749 $\chi^2/\text{NDF}: 82.4/92$

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2113.190+/-0.611 χ^2/NDF : 4182374.4/19

Left Out: 4468.520+/-0.753 χ^2/NDF :1380601.0/24

Right Out: 1783.787+/-0.448 χ^2/NDF : 4695867.7/24

Left In: 4617.293+/-0.794 χ^2/NDF :999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

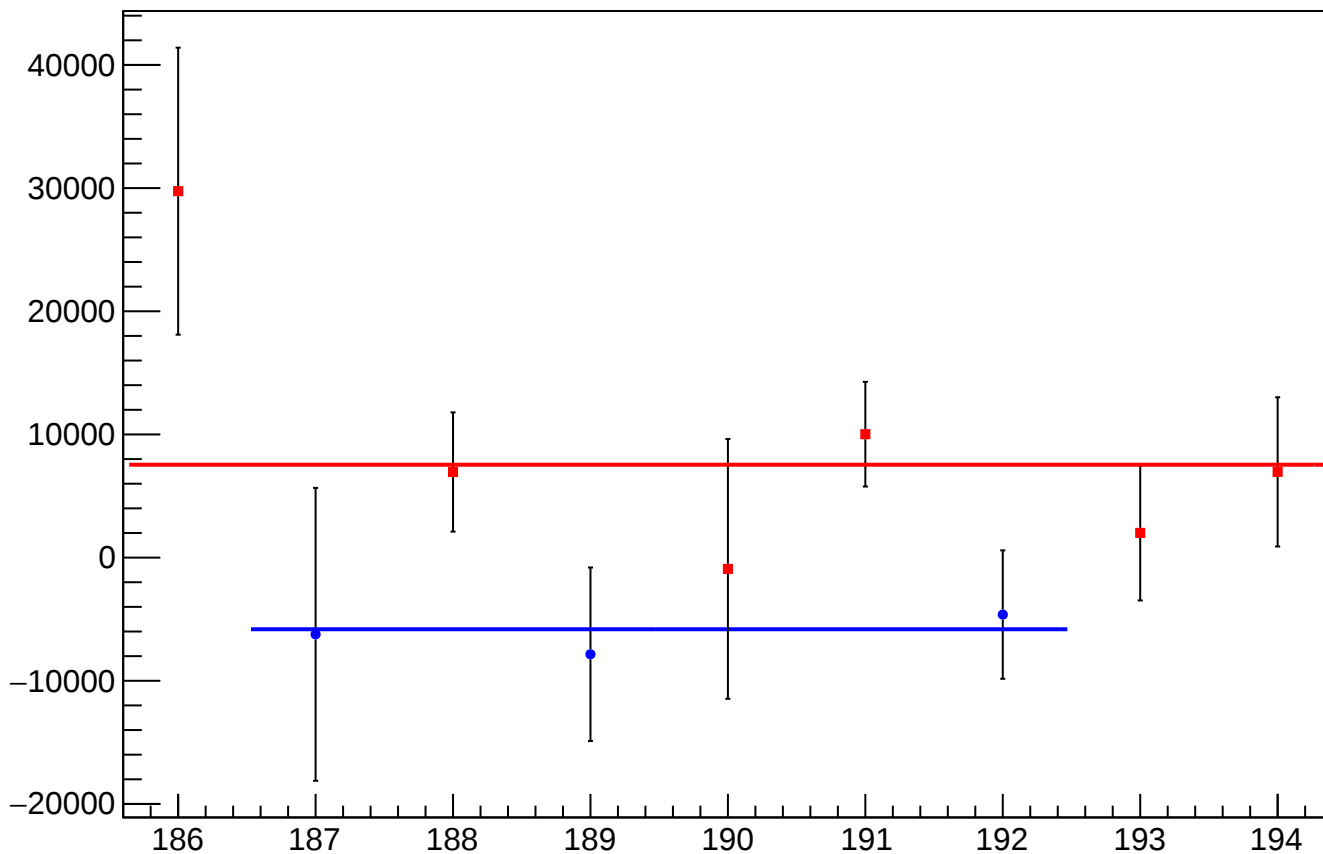
Right: 1899.014+/-0.361 χ^2/NDF : 9067171.0/44

In: 3044.045+/-0.484 χ^2/NDF :11424117.1/42

Out: 2485.544+/-0.385 χ^2/NDF :15454391.6/49

All: 2701.928+/-0.301 χ^2/NDF : 27692937.9/99

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -5817.301+/-3952.577 χ^2/NDF : 0.1/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 7541.814+/-2391.692 χ^2/NDF : 5.7/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

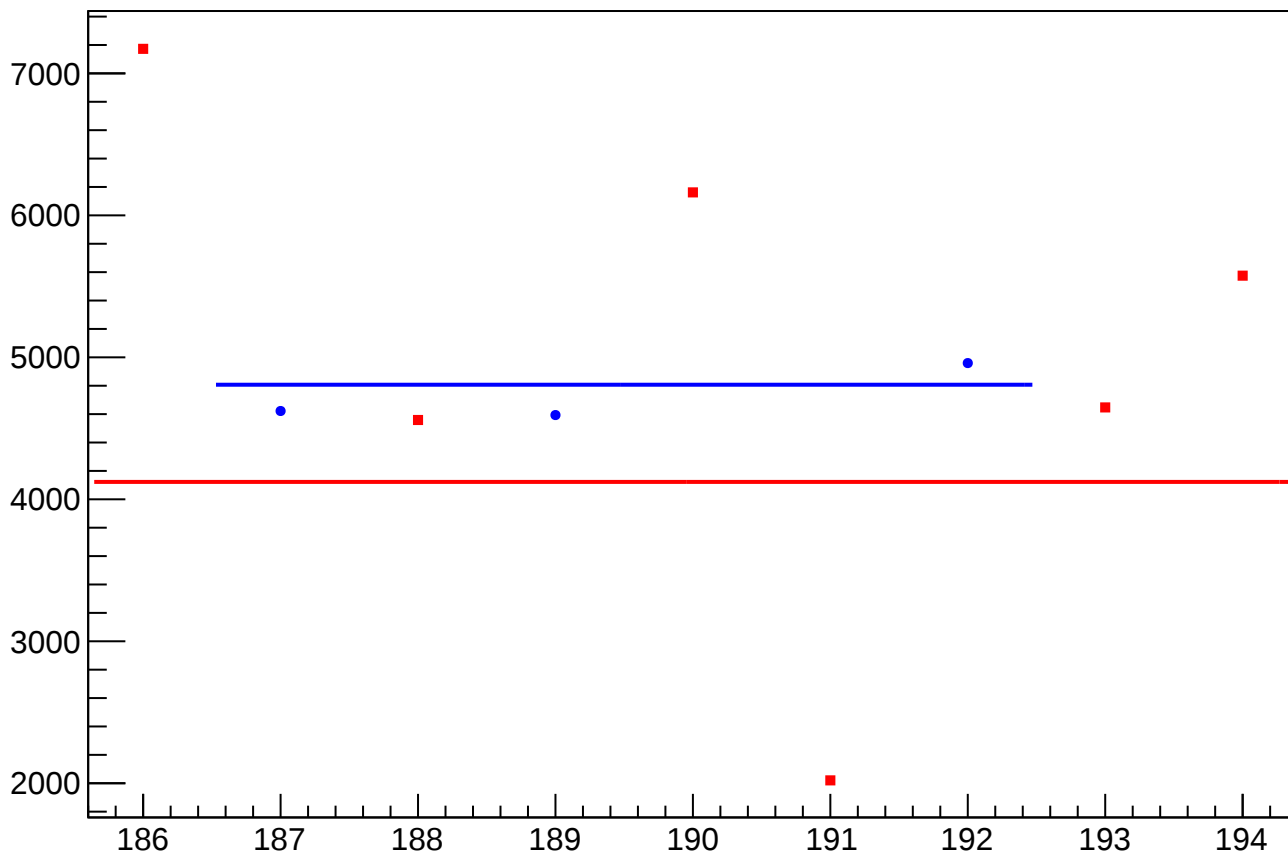
Right: 3961.414+/-2046.243 χ^2/NDF : 14.2/8

In: -5817.301+/-3952.577 χ^2/NDF : 0.1/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 3961.414+/-2046.243 χ^2/NDF : 14.2/8

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 4807.062+/-2.795 χ^2/NDF : 4033.6/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4122.545+/-1.691 χ^2/NDF : 850685.3/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

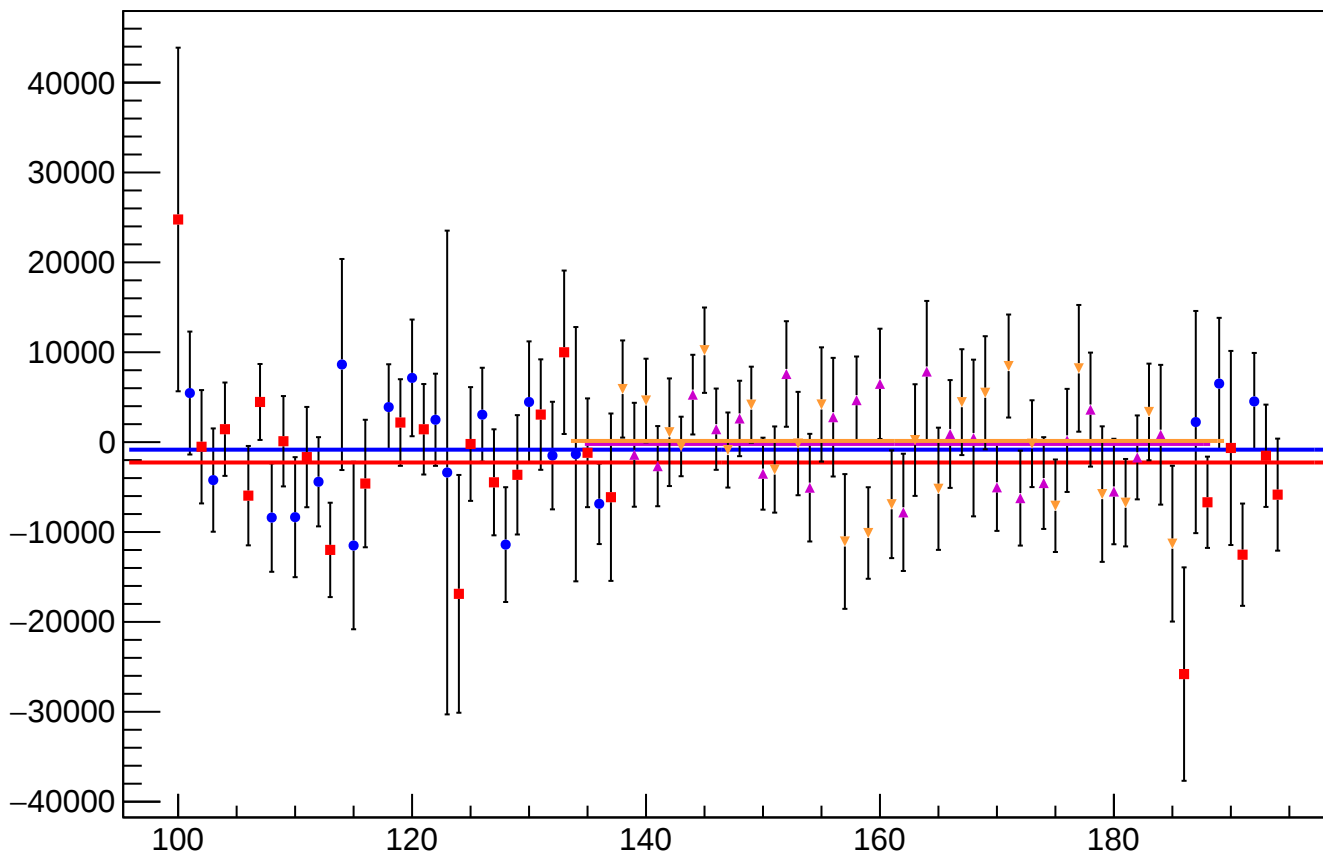
Right: 4306.004+/-1.447 χ^2/NDF : 898626.6/8

In: 4807.062+/-2.795 χ^2/NDF : 4033.6/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4306.004+/-1.447 χ^2/NDF : 898626.6/8

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -839.032 ± 1423.114 χ^2/NDF : 17.2/19

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: -2265.080 ± 1225.661 χ^2/NDF : 23.3/24

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

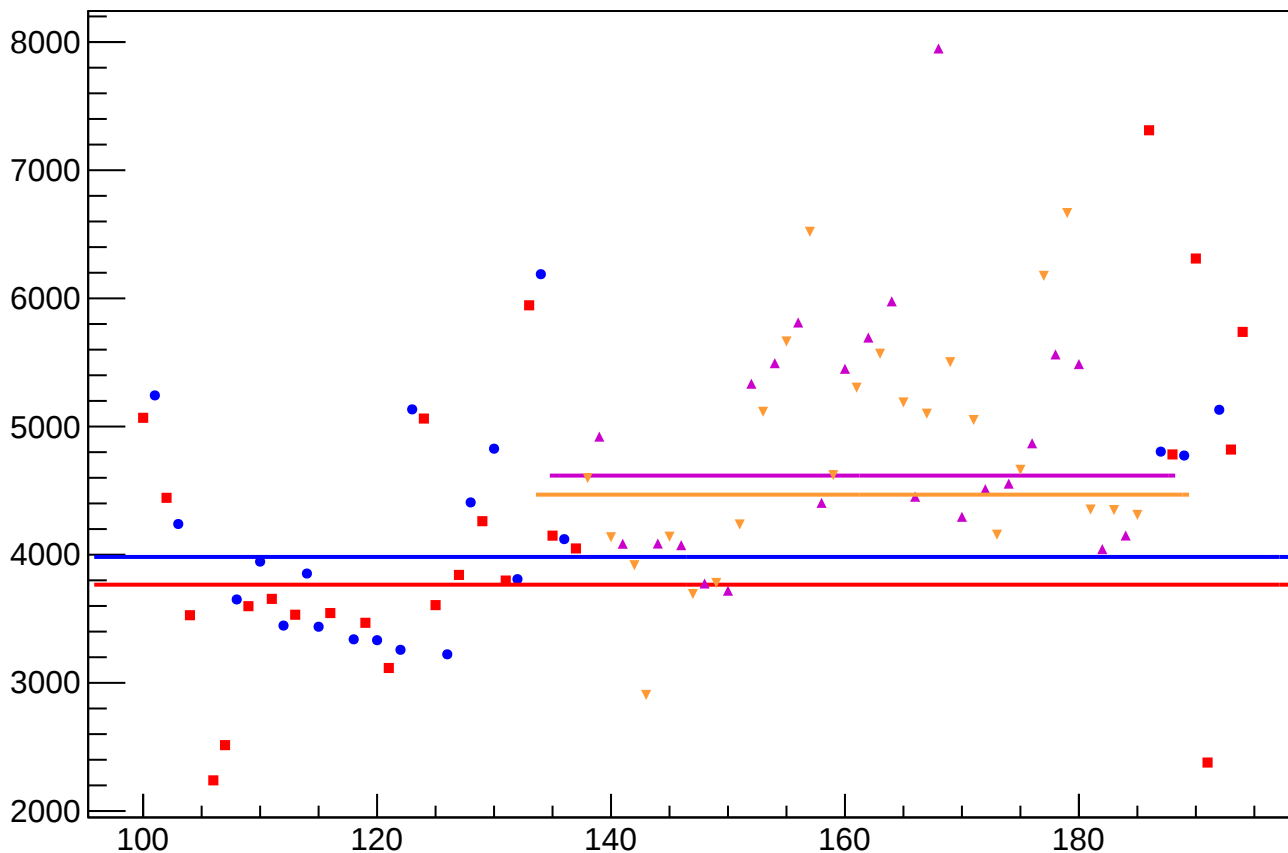
Right: -1657.773 ± 928.703 χ^2/NDF : 41.1/44

In: -445.471 ± 881.819 χ^2/NDF : 32.1/42

Out: -899.755 ± 804.145 χ^2/NDF : 53.6/49

All: -693.498 ± 594.183 χ^2/NDF : 85.9/92

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3982.560+/-1.006 χ^2/NDF : 466233.5/19

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 3766.079+/-0.860 χ^2/NDF : 1374224.6/24

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

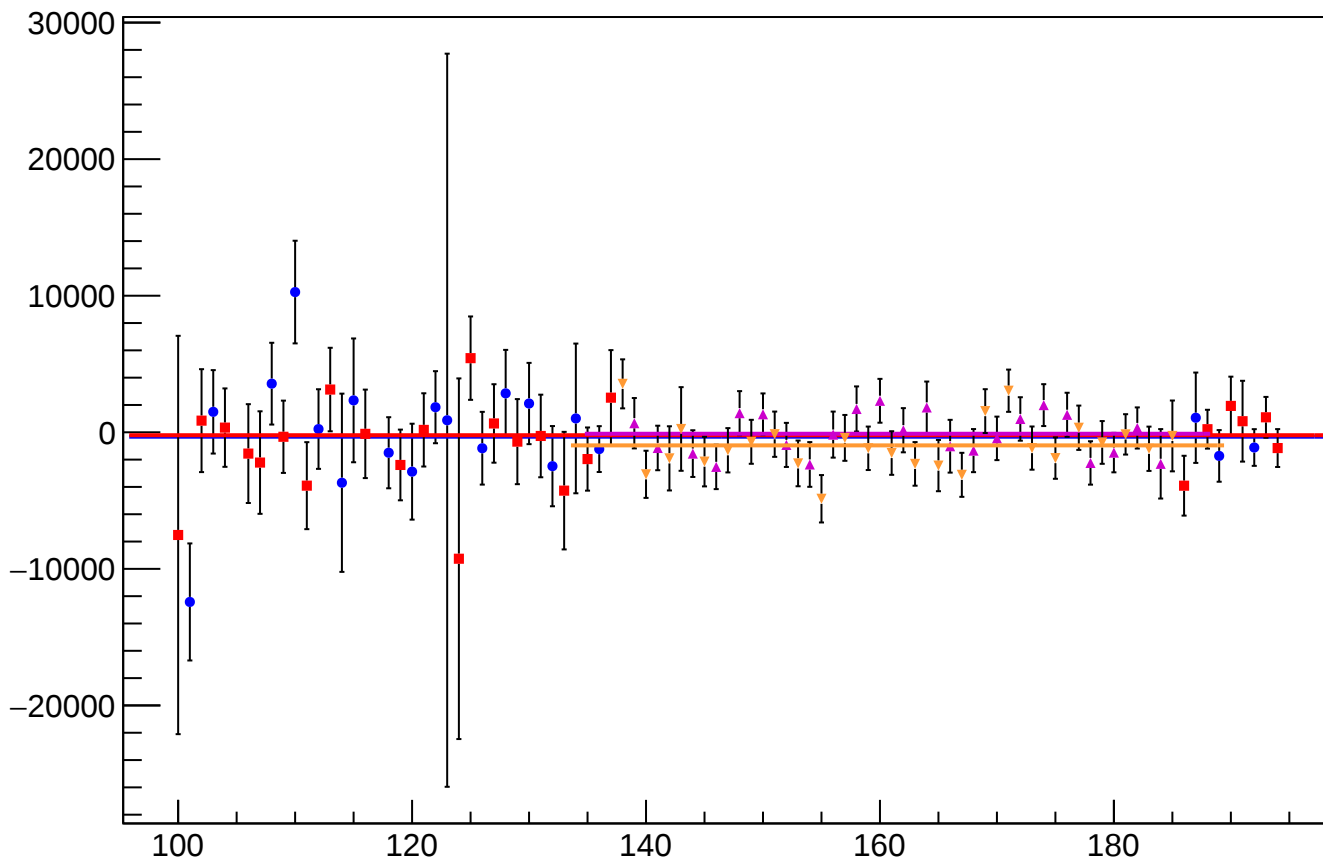
Right: 3857.509+/-0.654 χ^2/NDF : 1867193.0/44

In: 4373.578+/-0.624 χ^2/NDF : 1710941.8/42

Out: 4163.658+/-0.567 χ^2/NDF : 3132050.8/49

All: 4258.643+/-0.419 χ^2/NDF : 4905048.6/92

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -322.000+/-609.730 χ^2/NDF : 23.7/19

Left Out: -958.410+/-339.496 χ^2/NDF :28.5/24

Right Out: -214.828+/-509.646 χ^2/NDF : 15.4/24

Left In: -107.512+/-343.663 χ^2/NDF :19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

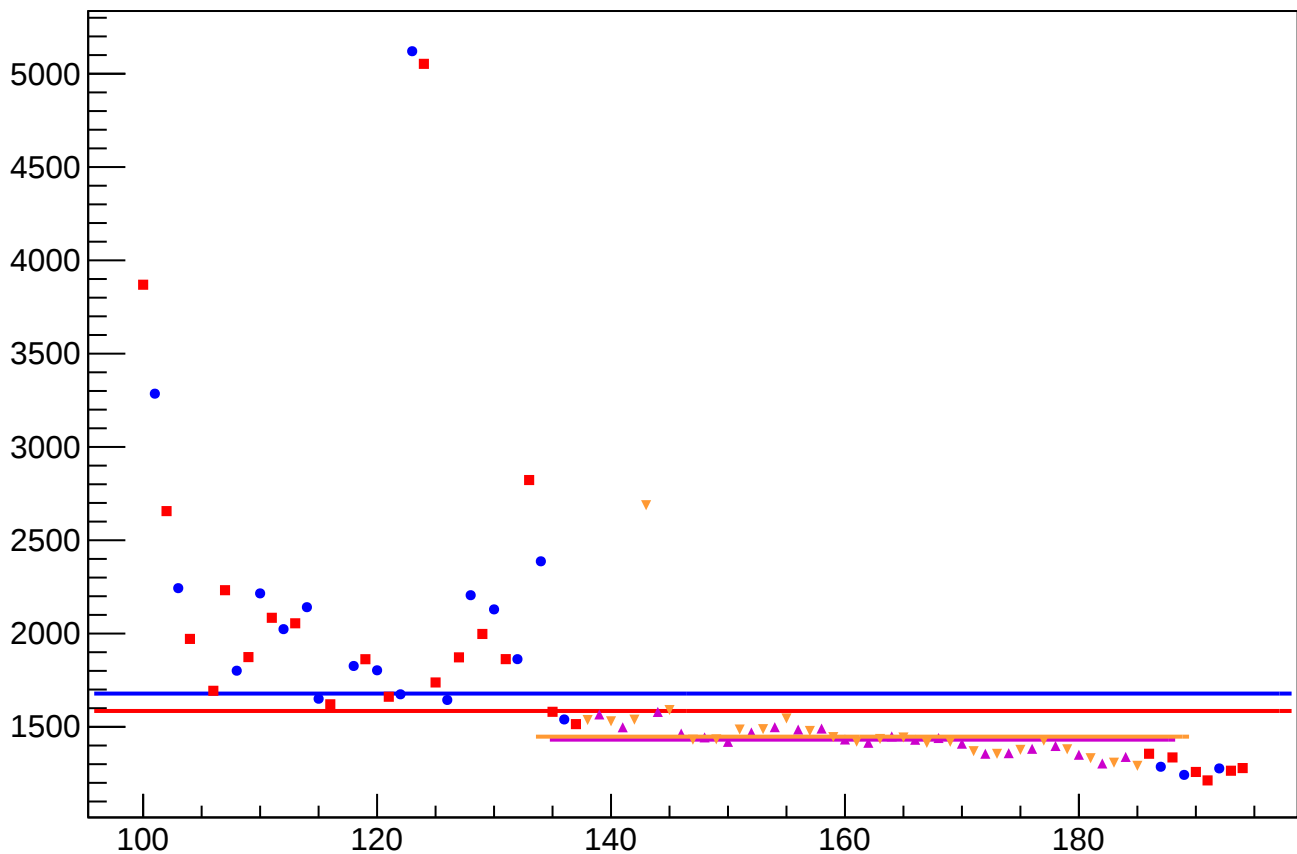
Right: -258.908+/-391.036 χ^2/NDF : 39.2/44

In: -159.223+/-299.383 χ^2/NDF :43.3/42

Out: -729.865+/-282.546 χ^2/NDF :45.4/49

All: -461.041+/-205.485 χ^2/NDF : 90.7/92

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1678.386+/-0.431 χ^2/NDF : 942880.2/19

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1585.163+/-0.360 χ^2/NDF : 1185137.9/24

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

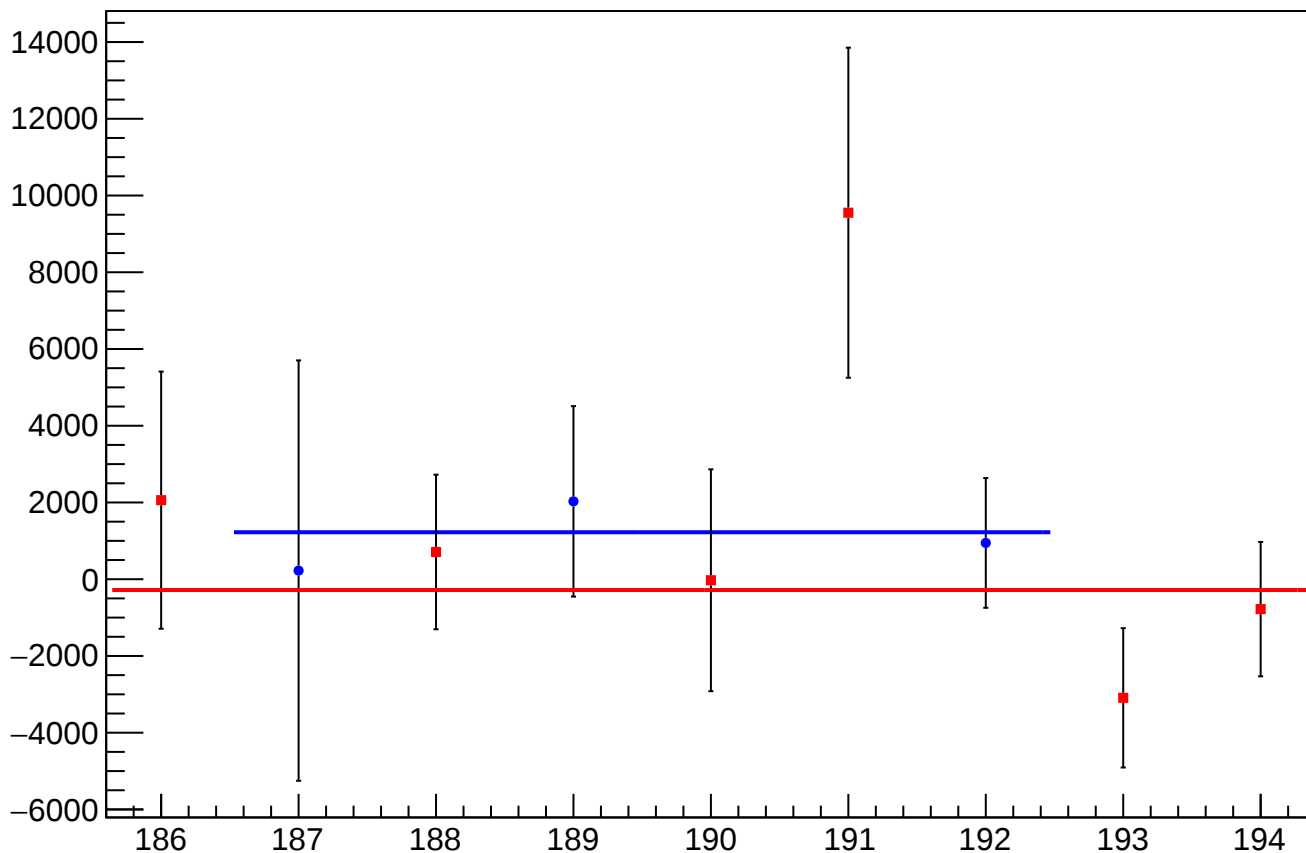
Right: 1623.506+/-0.277 χ^2/NDF : 2155541.3/44

In: 1490.989+/-0.212 χ^2/NDF : 1266952.4/42

Out: 1489.850+/-0.200 χ^2/NDF : 1705387.5/49

All: 1490.386+/-0.145 χ^2/NDF : 2972355.2/92

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1224.191+/-1353.918 χ^2/NDF : 0.2/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -281.242+/-937.169 χ^2/NDF : 8.4/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

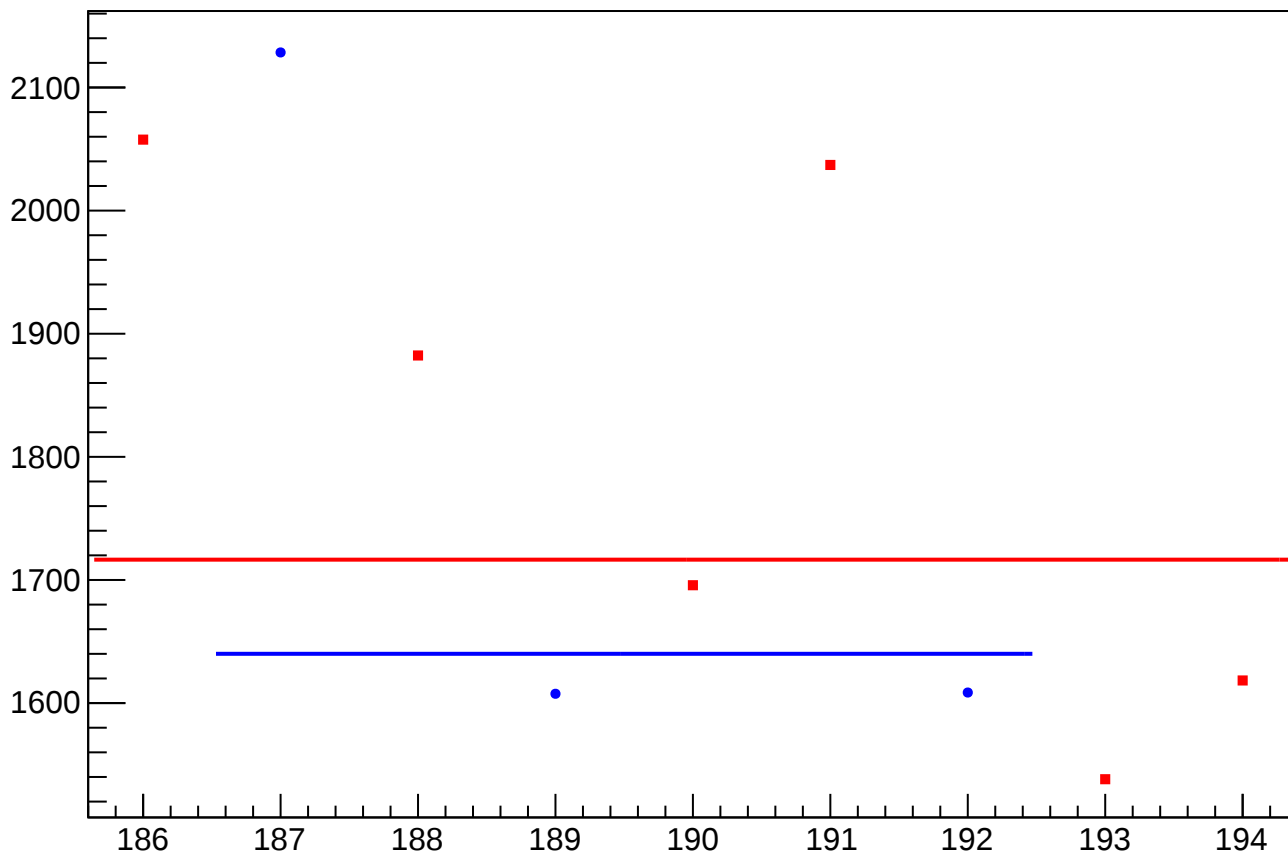
Right: 206.407+/-770.575 χ^2/NDF : 9.4/8

In: 1224.191+/-1353.918 χ^2/NDF : 0.2/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 206.407+/-770.575 χ^2/NDF : 9.4/8

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1640.033+/-0.957 χ^2/NDF : 16932.8/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1716.500+/-0.663 χ^2/NDF : 71062.1/5

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

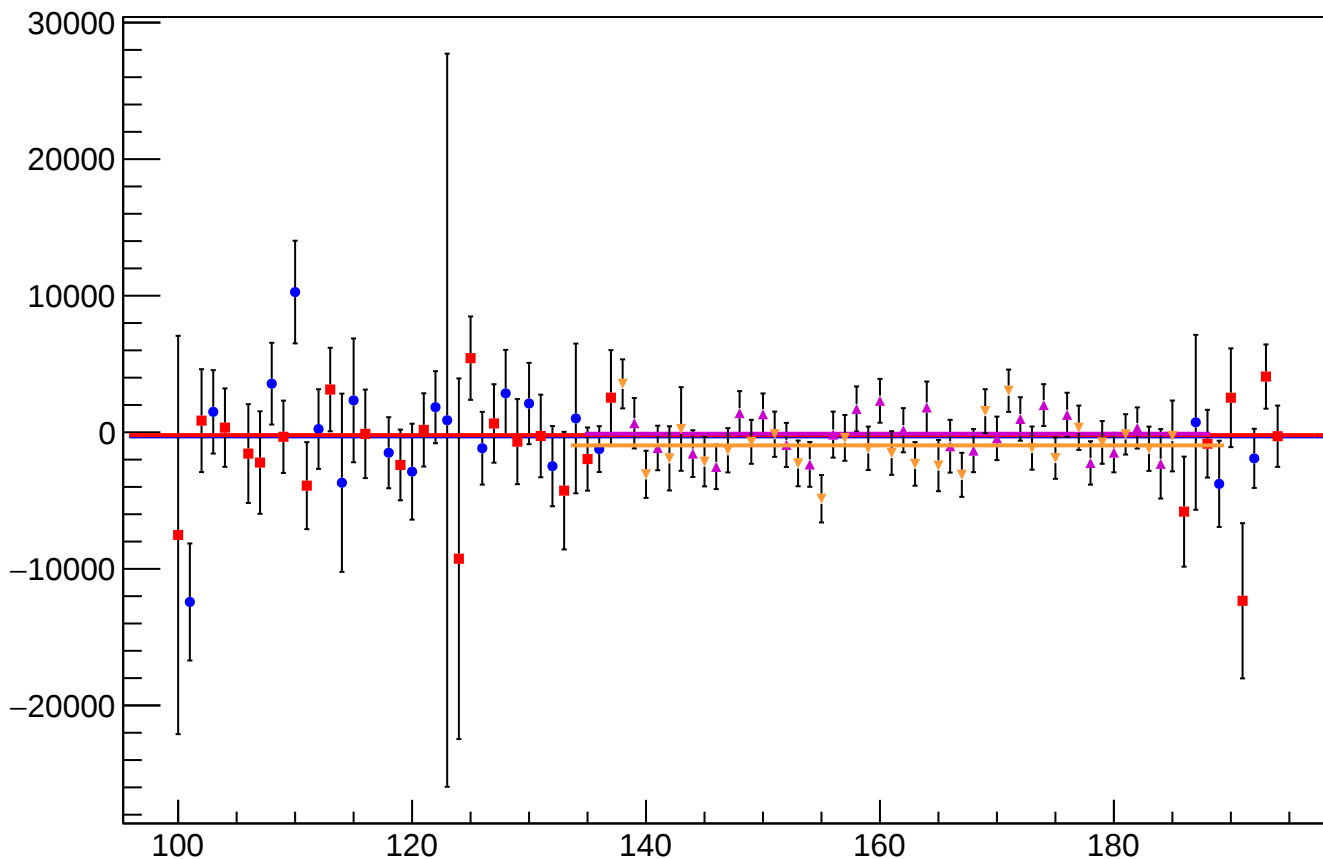
Right: 1691.730+/-0.545 χ^2/NDF : 92308.0/8

In: 1640.033+/-0.957 χ^2/NDF : 16932.8/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1691.730+/-0.545 χ^2/NDF : 92308.0/8

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -299.705+/-689.666 χ^2/NDF : 24.4/19

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -208.346+/-625.421 χ^2/NDF : 20.6/24

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

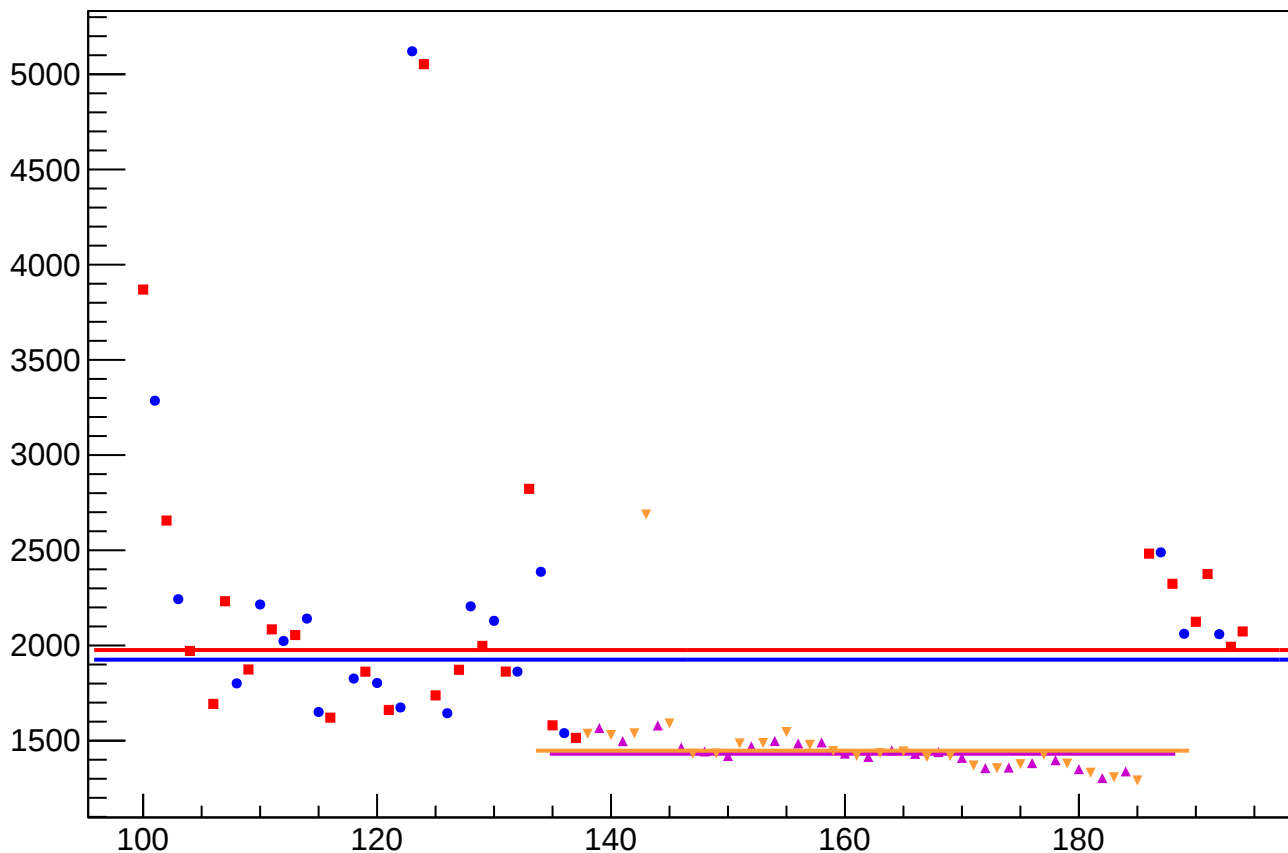
Right: -249.573+/-463.291 χ^2/NDF : 45.0/44

In: -145.742+/-307.590 χ^2/NDF : 43.9/42

Out: -787.697+/-298.371 χ^2/NDF : 50.2/49

All: -476.484+/-214.165 χ^2/NDF : 96.4/92

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1925.508 $\pm$ 0.488 χ^2 /NDF: 496844.7/19

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1976.045 $\pm$ 0.442 χ^2 /NDF: 567748.2/24

Left In: 1431.456 $\pm$ 0.243 χ^2 /NDF: 75130.4/22

Left: 1439.603 $\pm$ 0.171 χ^2 /NDF: 496606.4/47

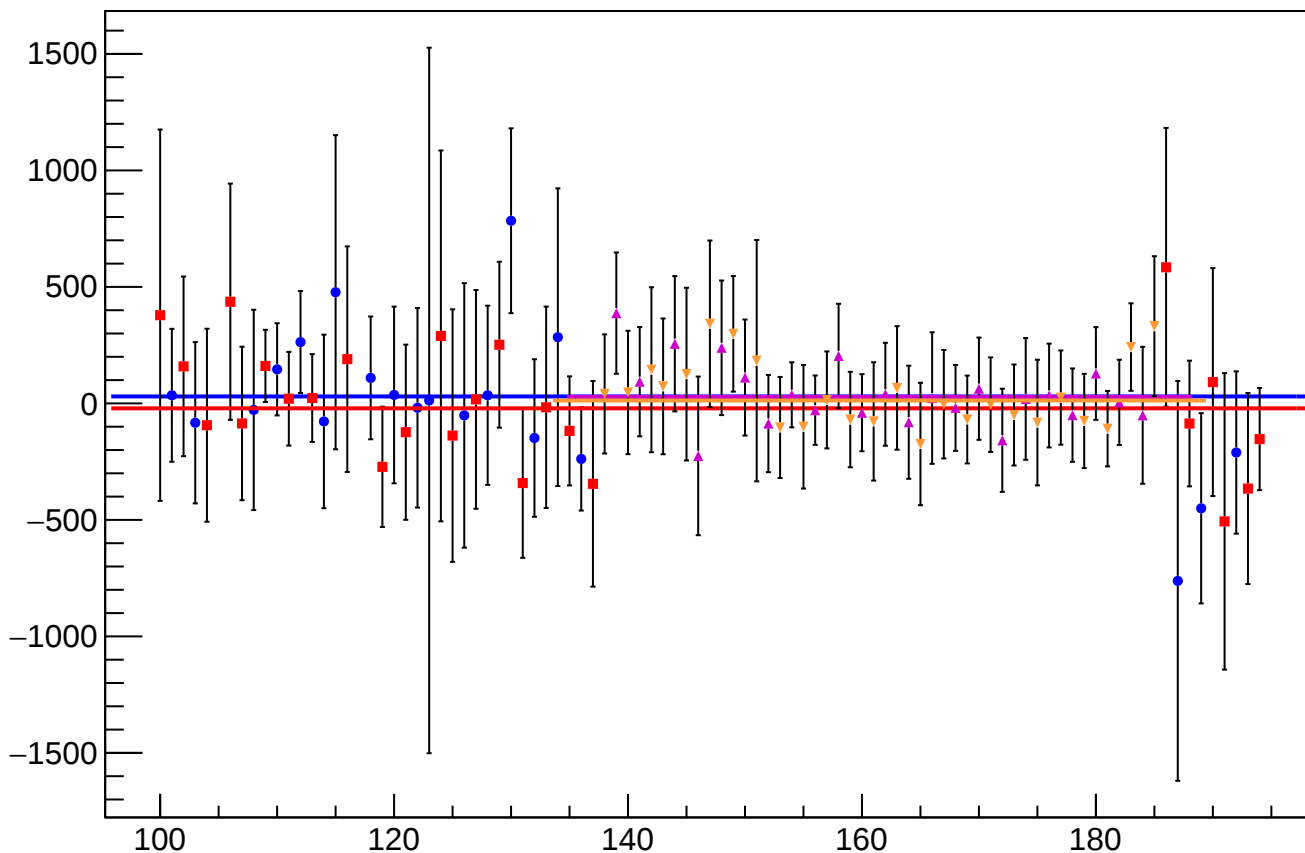
Right: 1953.240 $\pm$ 0.328 χ^2 /NDF: 1070485.9/44

In: 1529.731 $\pm$ 0.217 χ^2 /NDF: 1394182.5/42

Out: 1567.840 $\pm$ 0.211 χ^2 /NDF: 2090090.9/49

All: 1549.365 $\pm$ 0.151 χ^2 /NDF: 3500090.8/92

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 29.887 $\pm$ 76.141 χ^2 /NDF: 10.5/19

Left Out: 12.618 $\pm$ 47.486 χ^2 /NDF: 7.7/24

Right Out: -21.118 $\pm$ 62.759 χ^2 /NDF: 9.3/24

Left In: 27.921 $\pm$ 44.523 χ^2 /NDF: 6.5/22

Left: 20.762 $\pm$ 32.480 χ^2 /NDF: 14.3/47

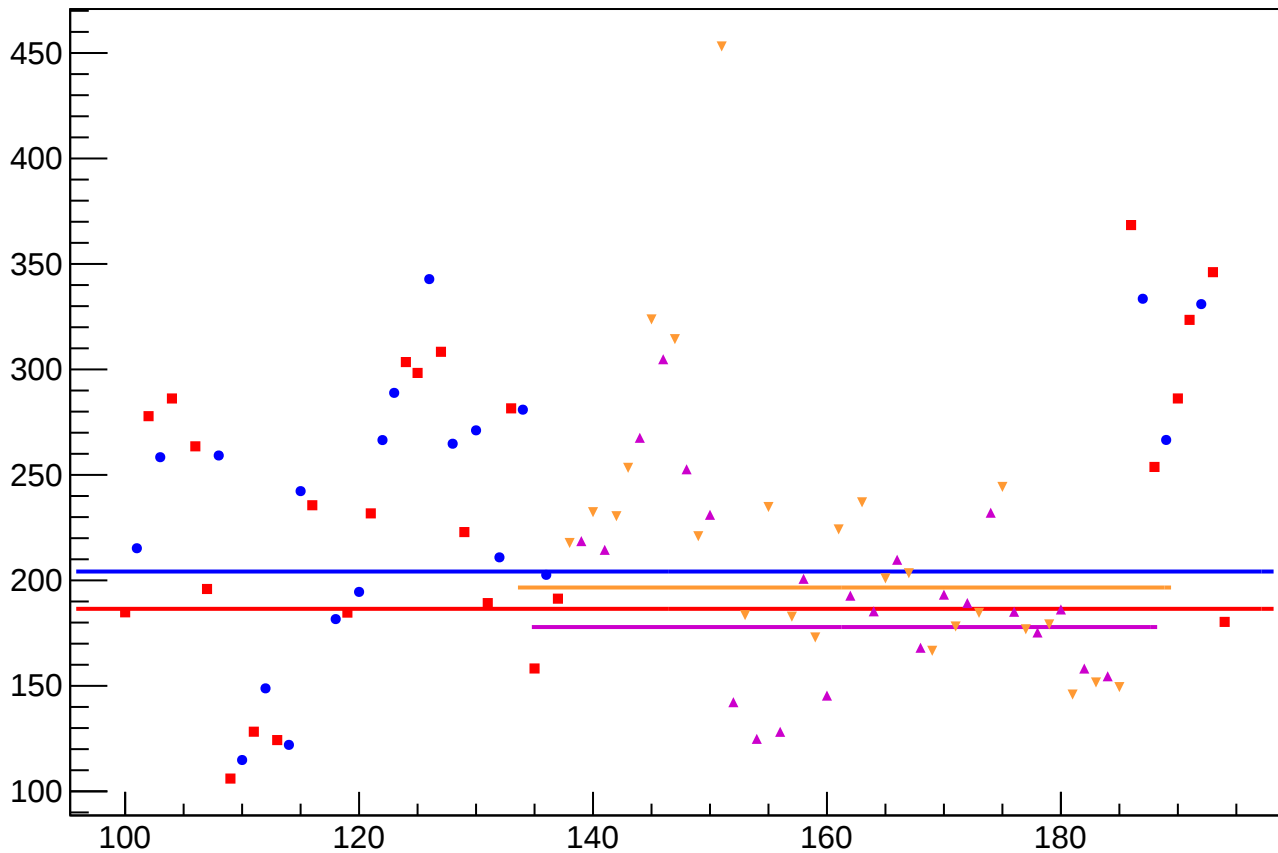
Right: -0.484 $\pm$ 48.428 χ^2 /NDF: 20.1/44

In: 28.422 $\pm$ 38.435 χ^2 /NDF: 17.0/42

Out: 0.336 $\pm$ 37.868 χ^2 /NDF: 17.2/49

All: 14.170 $\pm$ 26.975 χ^2 /NDF: 34.5/92

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.199 $\pm$ 0.054 χ^2/NDF : 1401474.3/19

Left Out: 196.620 $\pm$ 0.034 χ^2/NDF :1793507.9/24

Right Out: 186.514 $\pm$ 0.044 χ^2/NDF : 2450332.8/24

Left In: 177.878 $\pm$ 0.031 χ^2/NDF :1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2/NDF : 3603390.3/47

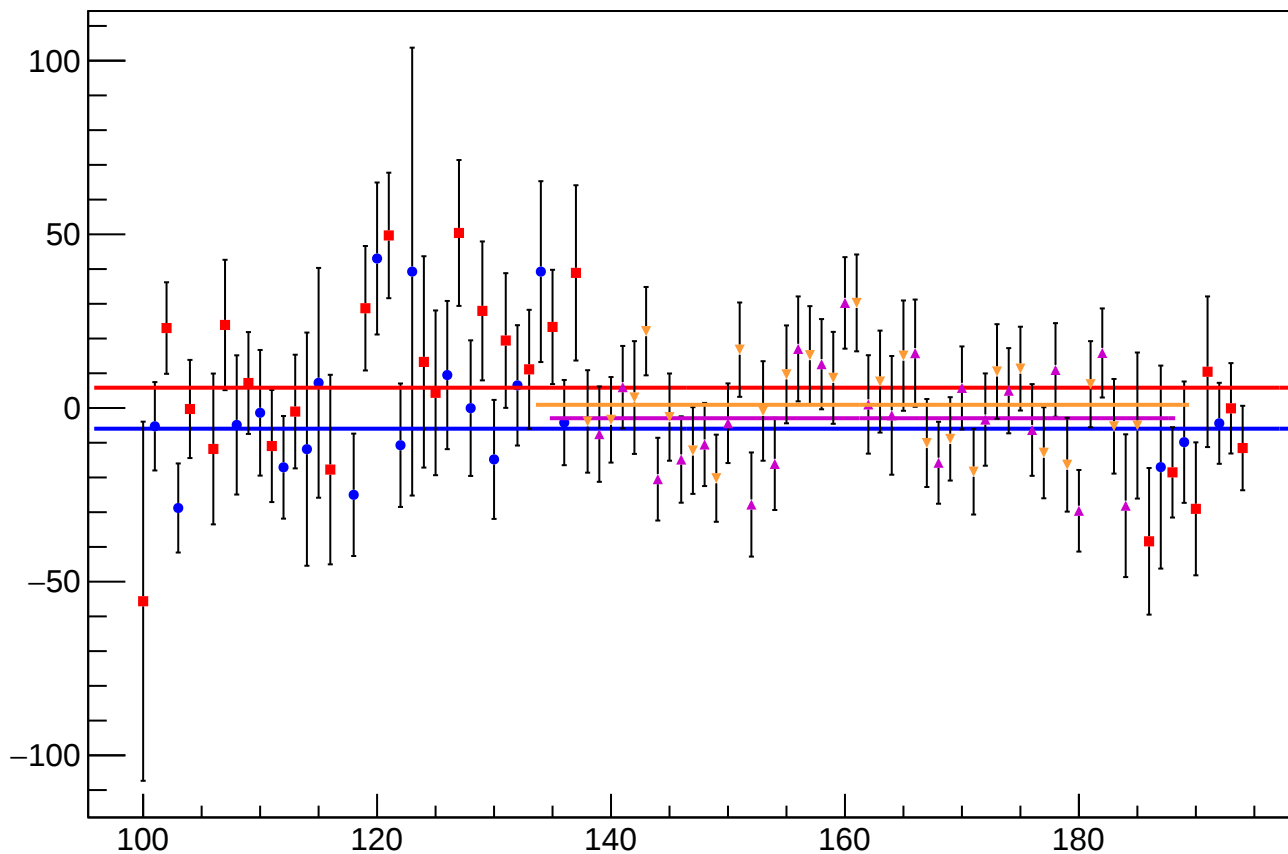
Right: 193.668 $\pm$ 0.034 χ^2/NDF : 3916057.3/44

In: 184.585 $\pm$ 0.027 χ^2/NDF :3223666.6/42

Out: 192.940 $\pm$ 0.027 χ^2/NDF :4276820.5/49

All: 188.825 $\pm$ 0.019 χ^2/NDF : 7548452.6/92

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.958 ± 3.941 χ^2/NDF : 15.4/19

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 5.846 ± 3.525 χ^2/NDF : 37.2/24

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

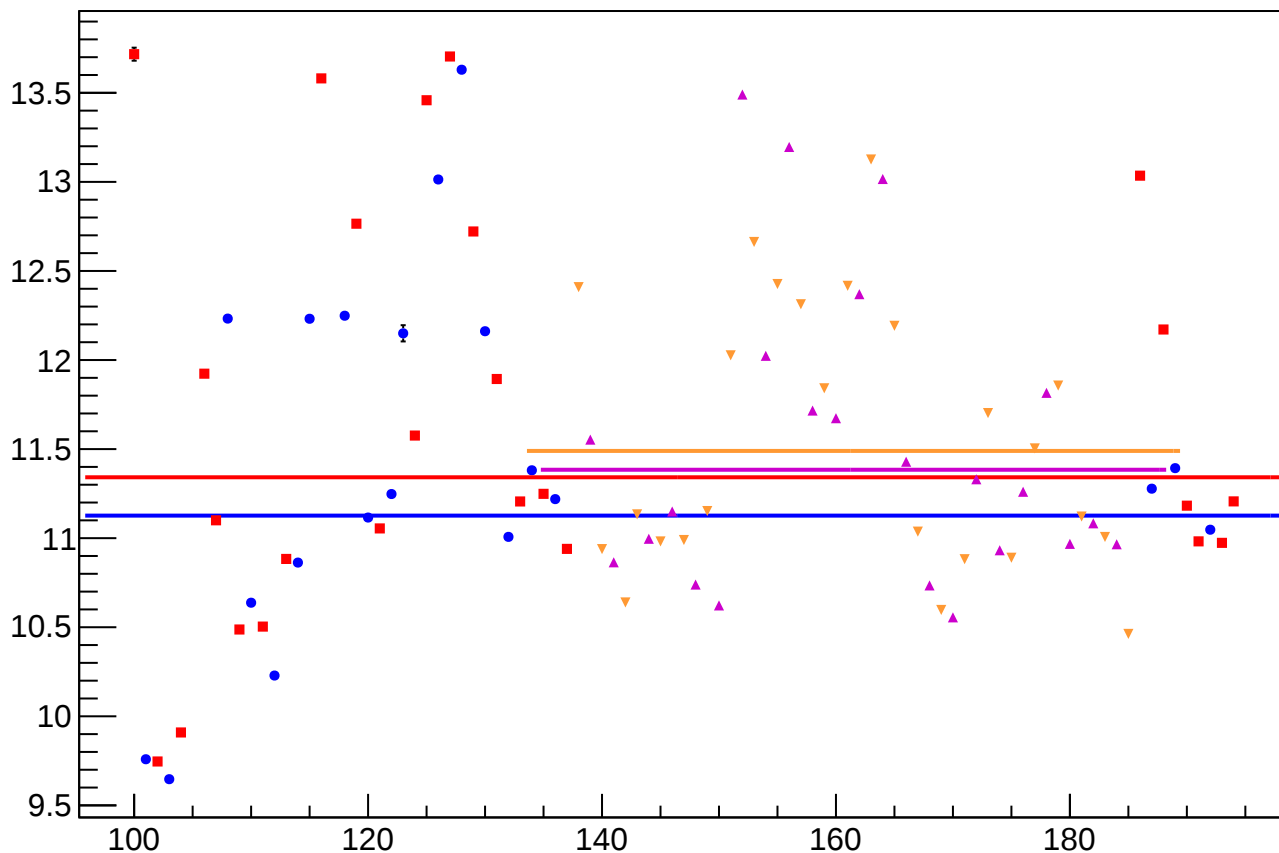
Right: 0.600 ± 2.627 χ^2/NDF : 57.5/44

In: -3.927 ± 2.252 χ^2/NDF : 46.8/42

Out: 2.738 ± 2.141 χ^2/NDF : 62.4/49

All: -0.426 ± 1.552 χ^2/NDF : 113.8/92

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.127 $\pm$ 0.003 χ^2 /NDF: 132570.2/19

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 11.342 $\pm$ 0.002 χ^2 /NDF: 172958.0/24

Left In: 11.384 $\pm$ 0.002 χ^2 /NDF:149799.6/22

Left: 11.438 $\pm$ 0.001 χ^2 /NDF: 283707.5/47

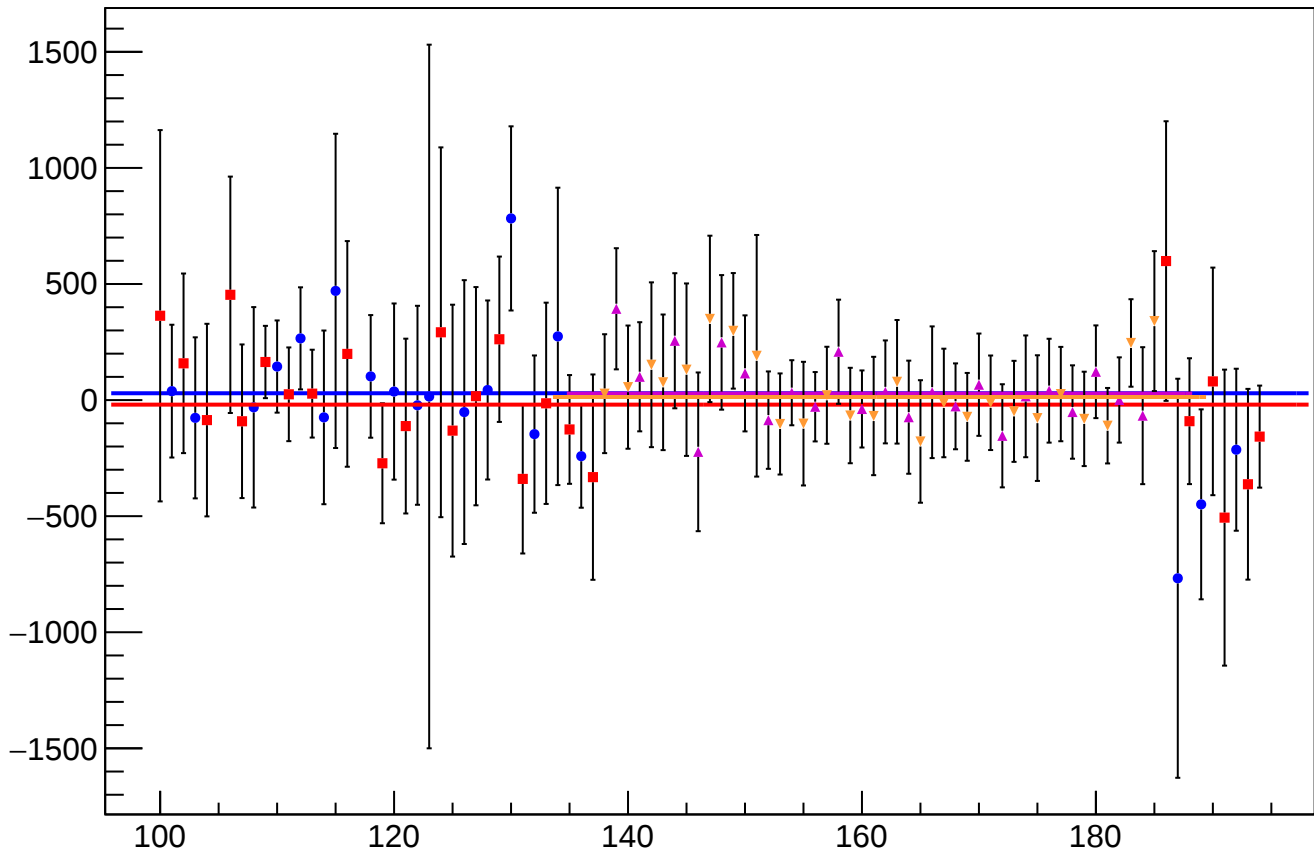
Right: 11.246 $\pm$ 0.002 χ^2 /NDF: 308839.7/44

In: 11.300 $\pm$ 0.002 χ^2 /NDF:288117.3/42

Out: 11.435 $\pm$ 0.002 χ^2 /NDF:307581.8/49

All: 11.371 $\pm$ 0.001 χ^2 /NDF: 599480.6/92

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 29.425 $\pm$ 76.337 χ^2 /NDF: 10.4/19

Left Out: 13.323 $\pm$ 47.662 χ^2 /NDF:7.9/24

Right Out: -19.595 $\pm$ 62.944 χ^2 /NDF: 9.5/24

Left In: 28.050 $\pm$ 44.681 χ^2 /NDF:6.6/22

Left: 21.161 $\pm$ 32.597 χ^2 /NDF: 14.6/47

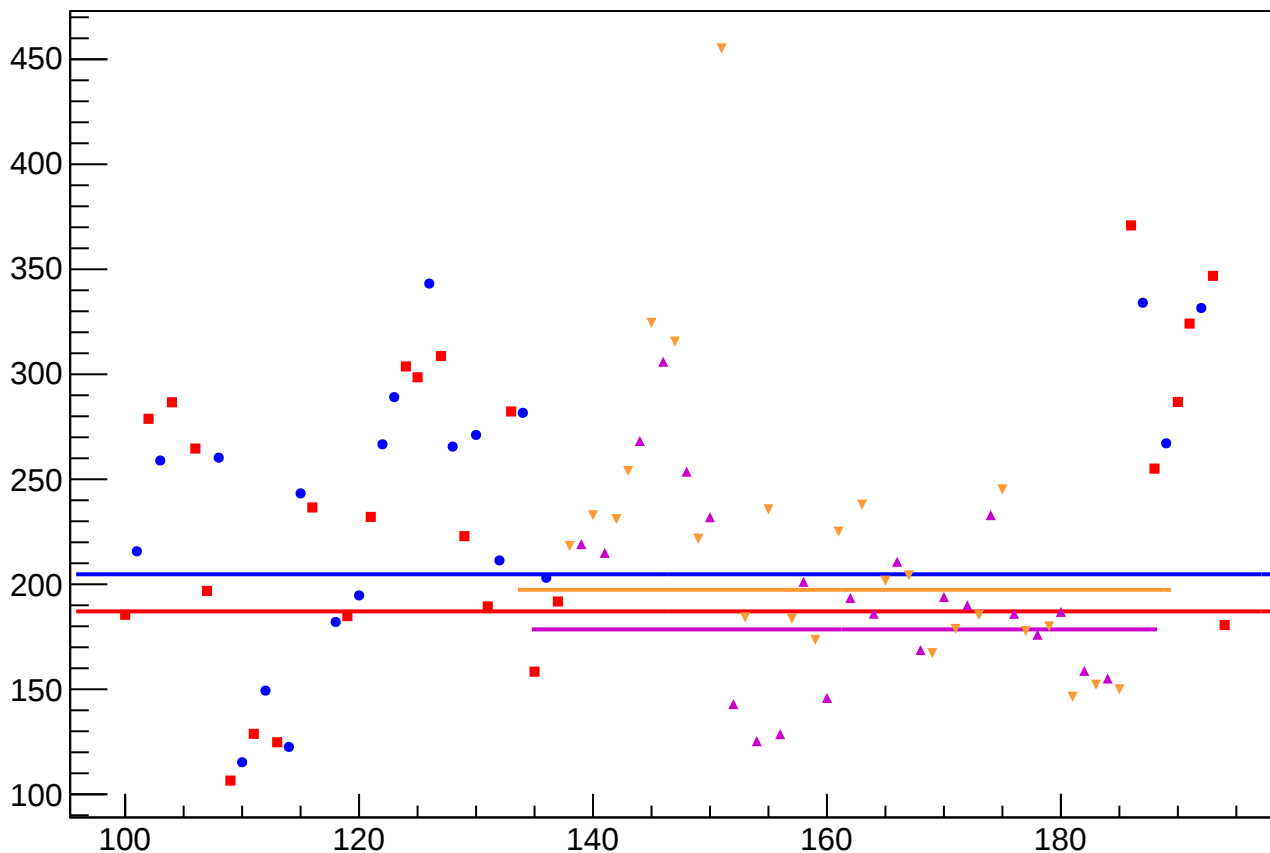
Right: 0.244 $\pm$ 48.564 χ^2 /NDF: 20.2/44

In: 28.401 $\pm$ 38.561 χ^2 /NDF:17.1/42

Out: 1.326 $\pm$ 37.998 χ^2 /NDF:17.5/49

All: 14.664 $\pm$ 27.065 χ^2 /NDF: 34.8/92

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.766 $\pm$ 0.054 χ^2 /NDF: 1395281.0/19

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 187.093 $\pm$ 0.045 χ^2 /NDF: 2444578.2/24

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

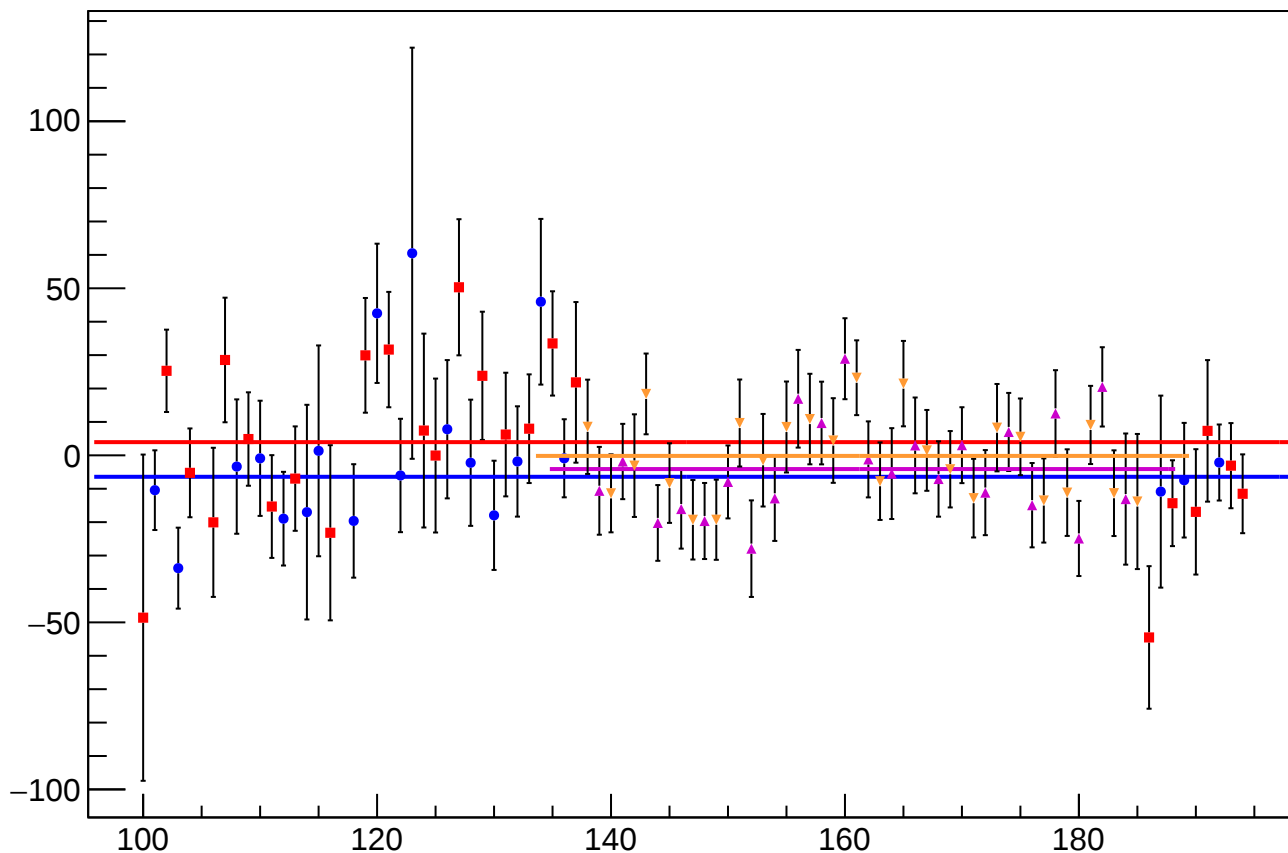
Right: 194.246 $\pm$ 0.034 χ^2 /NDF: 3903673.6/44

In: 185.212 $\pm$ 0.027 χ^2 /NDF:3213789.3/42

Out: 193.615 $\pm$ 0.027 χ^2 /NDF:4269191.5/49

All: 189.475 $\pm$ 0.019 χ^2 /NDF: 7531176.1/92

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.422 ± 3.778 $\chi^2/\text{NDF}: 19.6/19$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.951 ± 3.399 $\chi^2/\text{NDF}: 38.8/24$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

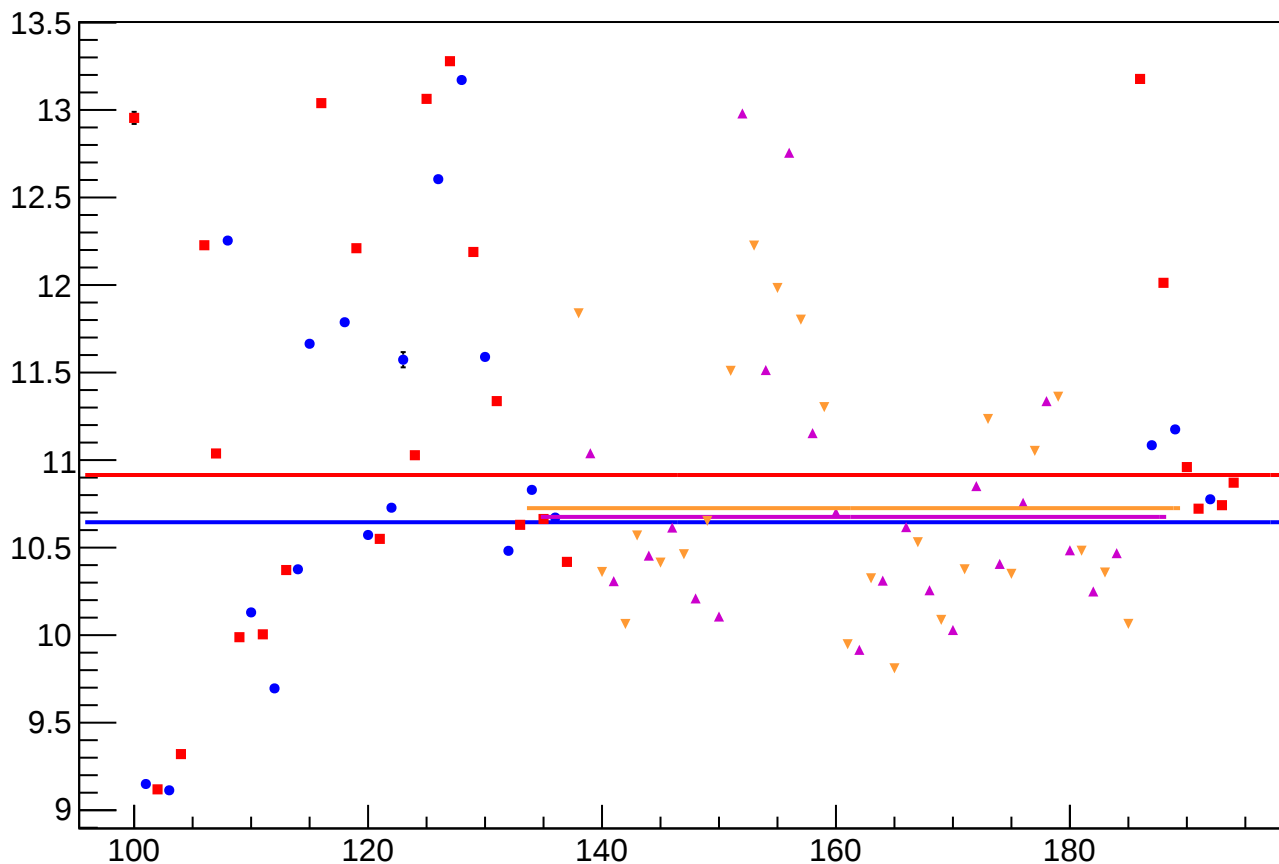
Right: -0.689 ± 2.527 $\chi^2/\text{NDF}: 62.6/44$

In: -4.842 ± 2.129 $\chi^2/\text{NDF}: 51.4/42$

Out: 1.292 ± 2.024 $\chi^2/\text{NDF}: 64.2/49$

All: -1.621 ± 1.467 $\chi^2/\text{NDF}: 119.9/92$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.645 ± 0.003 $\chi^2/\text{NDF}: 162255.1/19$

Left Out: 10.725 ± 0.002 $\chi^2/\text{NDF}: 132170.8/24$

Right Out: 10.915 ± 0.002 $\chi^2/\text{NDF}: 219132.5/24$

Left In: 10.675 ± 0.002 $\chi^2/\text{NDF}: 145938.2/22$

Left: 10.701 ± 0.001 $\chi^2/\text{NDF}: 278494.3/47$

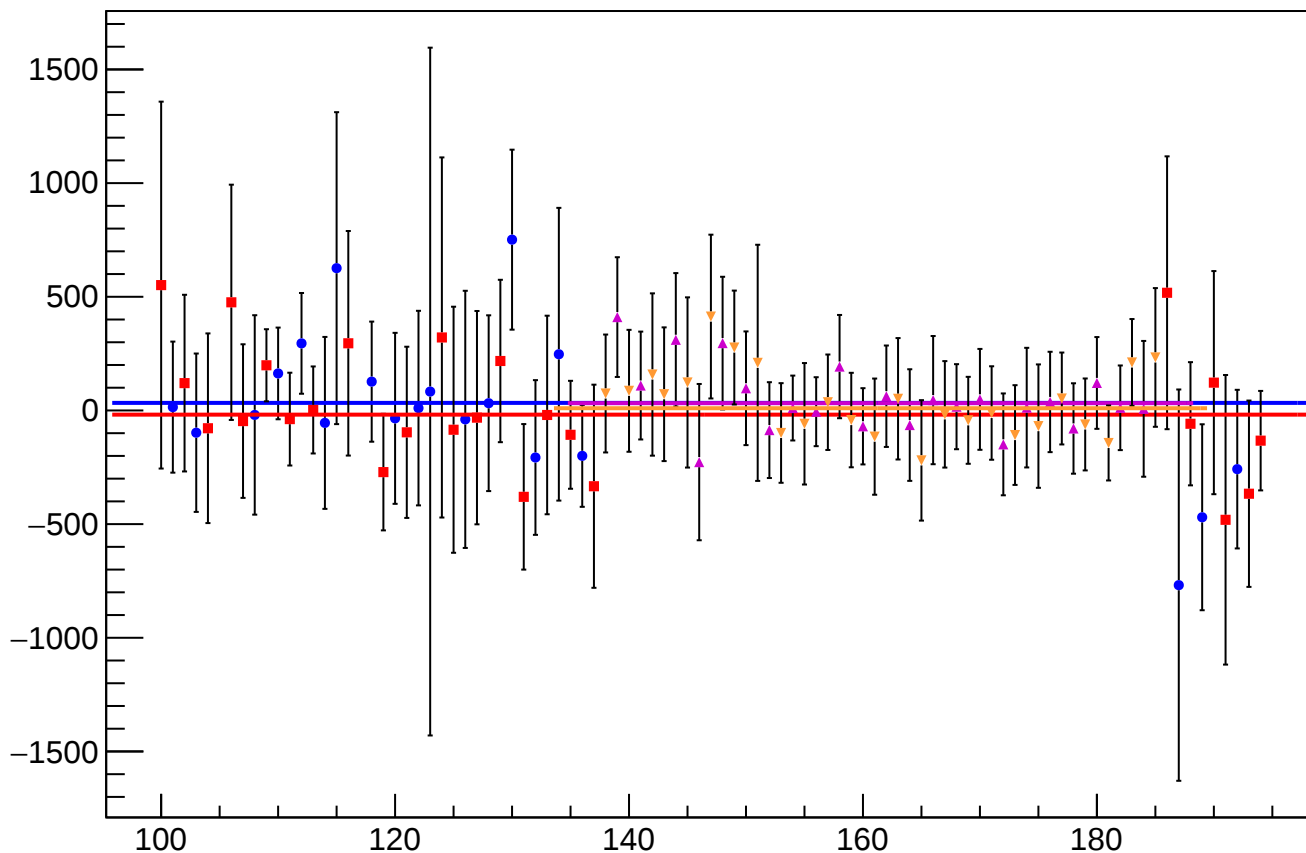
Right: 10.794 ± 0.002 $\chi^2/\text{NDF}: 387024.3/44$

In: 10.666 ± 0.002 $\chi^2/\text{NDF}: 308281.8/42$

Out: 10.793 ± 0.001 $\chi^2/\text{NDF}: 355307.1/49$

All: 10.732 ± 0.001 $\chi^2/\text{NDF}: 667318.5/92$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 33.267 $\pm$ 76.800 χ^2 /NDF: 11.0/19

Left Out: 9.801 $\pm$ 47.979 χ^2 /NDF: 7.5/24

Right Out: -18.433 $\pm$ 63.396 χ^2 /NDF: 9.9/24

Left In: 31.989 $\pm$ 45.038 χ^2 /NDF: 7.2/22

Left: 21.596 $\pm$ 32.837 χ^2 /NDF: 14.8/47

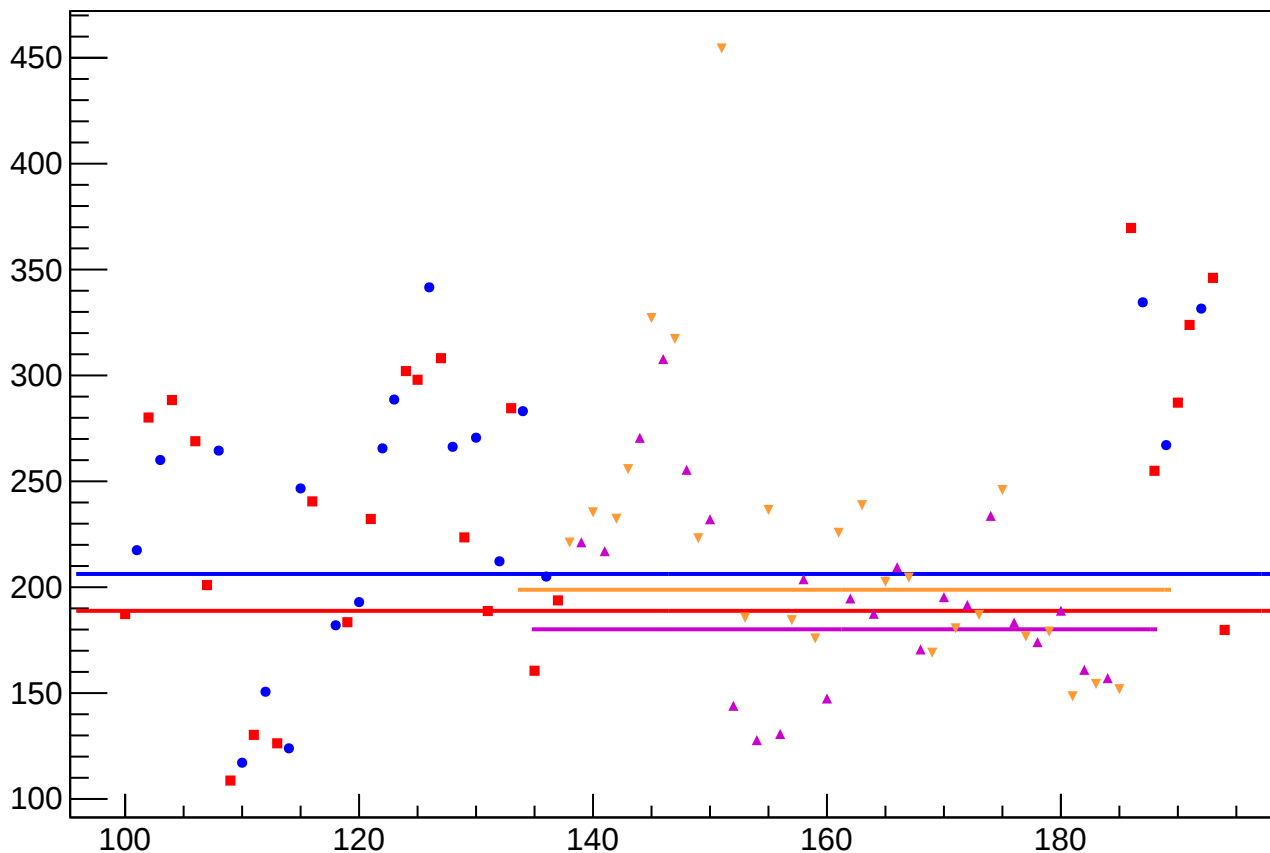
Right: 2.519 $\pm$ 48.891 χ^2 /NDF: 21.1/44

In: 32.316 $\pm$ 38.851 χ^2 /NDF: 18.2/42

Out: -0.481 $\pm$ 38.258 χ^2 /NDF: 17.5/49

All: 15.665 $\pm$ 27.259 χ^2 /NDF: 36.1/92

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.257 $\pm$ 0.054 χ^2 /NDF: 1359679.7/19

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 188.836 $\pm$ 0.045 χ^2 /NDF: 2376491.4/24

Left In: 180.123 $\pm$ 0.032 χ^2 /NDF:1593842.6/22

Left: 188.872 $\pm$ 0.023 χ^2 /NDF: 3518071.9/47

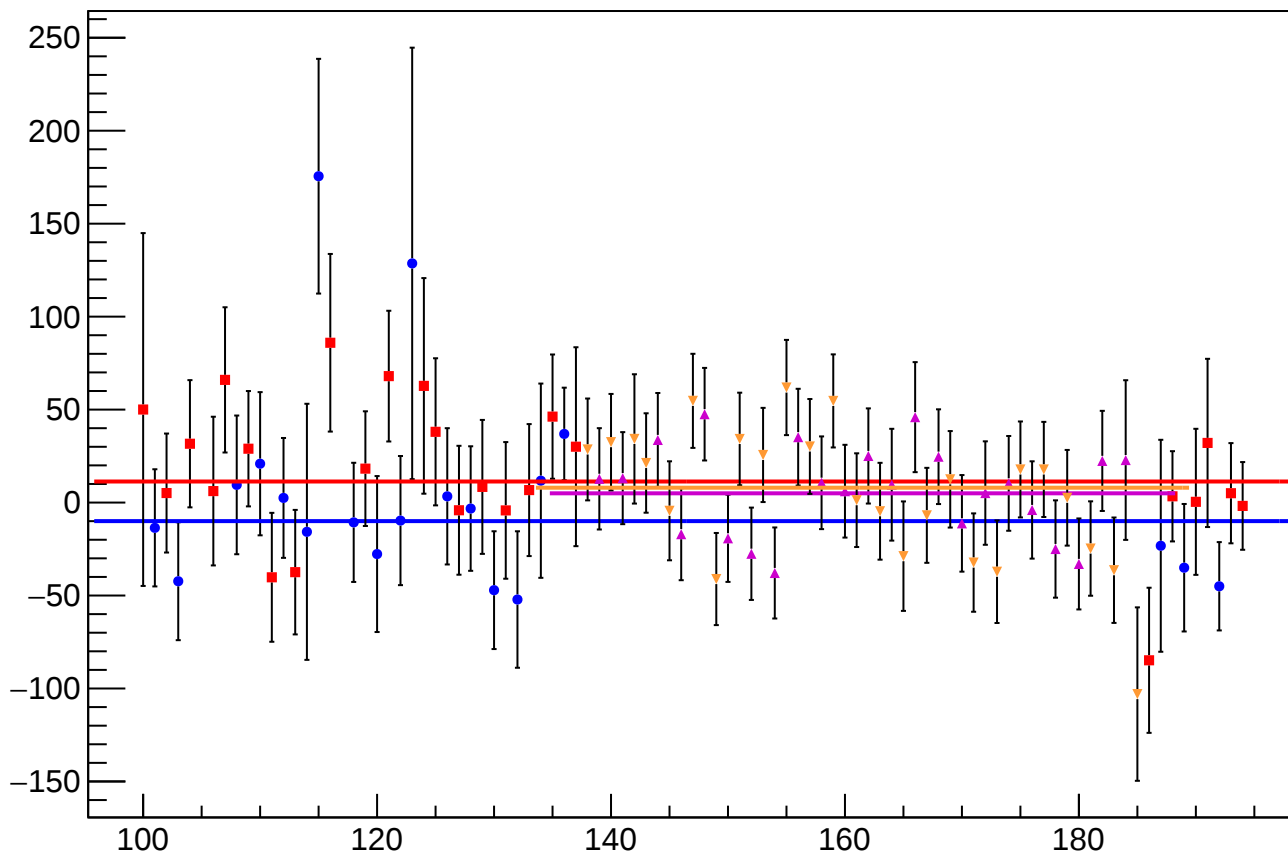
Right: 195.896 $\pm$ 0.035 χ^2 /NDF: 3797373.0/44

In: 186.811 $\pm$ 0.027 χ^2 /NDF:3125841.7/42

Out: 195.171 $\pm$ 0.027 χ^2 /NDF:4171025.1/49

All: 191.055 $\pm$ 0.019 χ^2 /NDF: 7343892.4/92

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.977 ± 8.019 $\chi^2/\text{NDF}: 21.7/19$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 11.328 ± 7.024 $\chi^2/\text{NDF}: 22.0/24$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

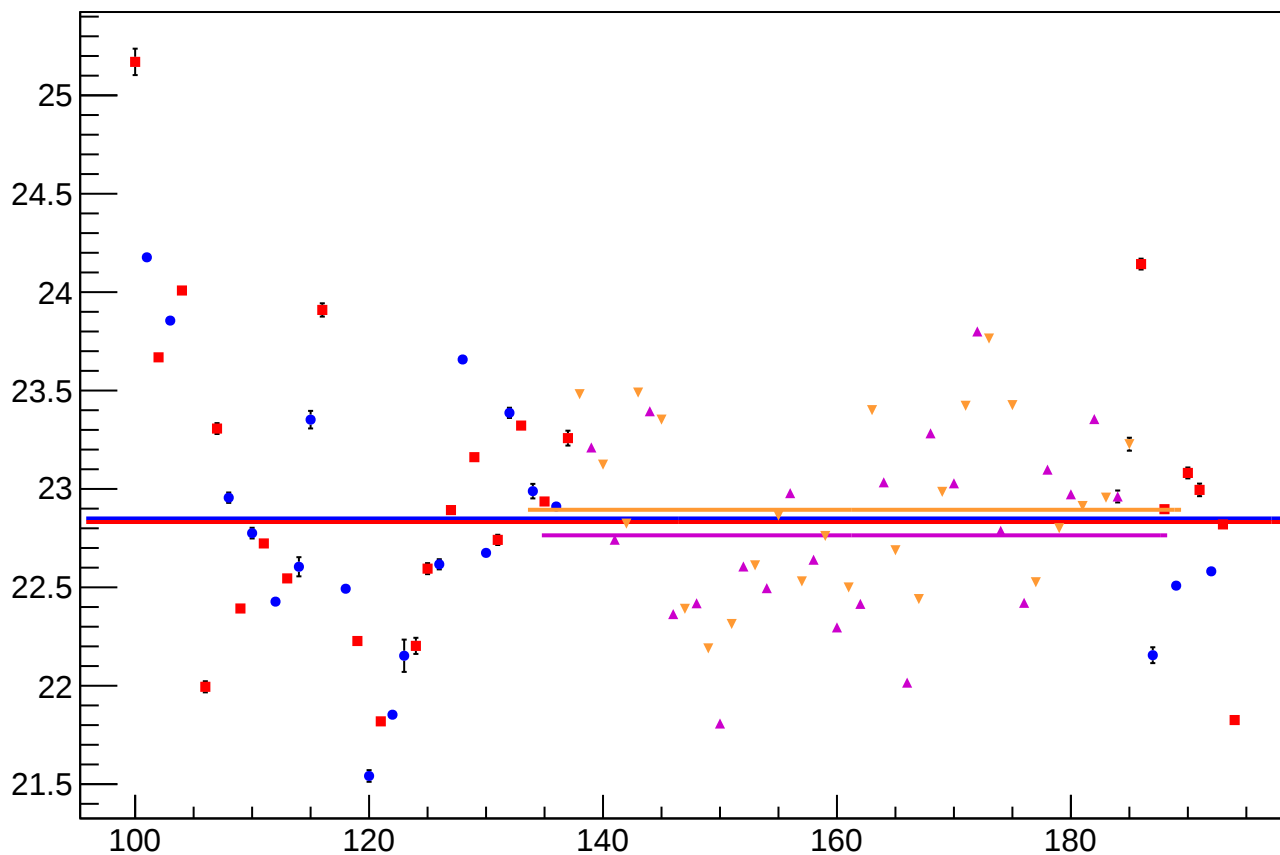
Right: 2.078 ± 5.284 $\chi^2/\text{NDF}: 47.7/44$

In: 0.256 ± 4.504 $\chi^2/\text{NDF}: 44.6/42$

Out: 9.209 ± 4.244 $\chi^2/\text{NDF}: 59.5/49$

All: 4.998 ± 3.089 $\chi^2/\text{NDF}: 106.2/92$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.850 $\pm$ 0.006 χ^2 /NDF: 12504.2/19

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.832 $\pm$ 0.005 χ^2 /NDF: 17170.7/24

Left In: 22.764 $\pm$ 0.004 χ^2 /NDF:14665.7/22

Left: 22.831 $\pm$ 0.003 χ^2 /NDF: 28317.3/47

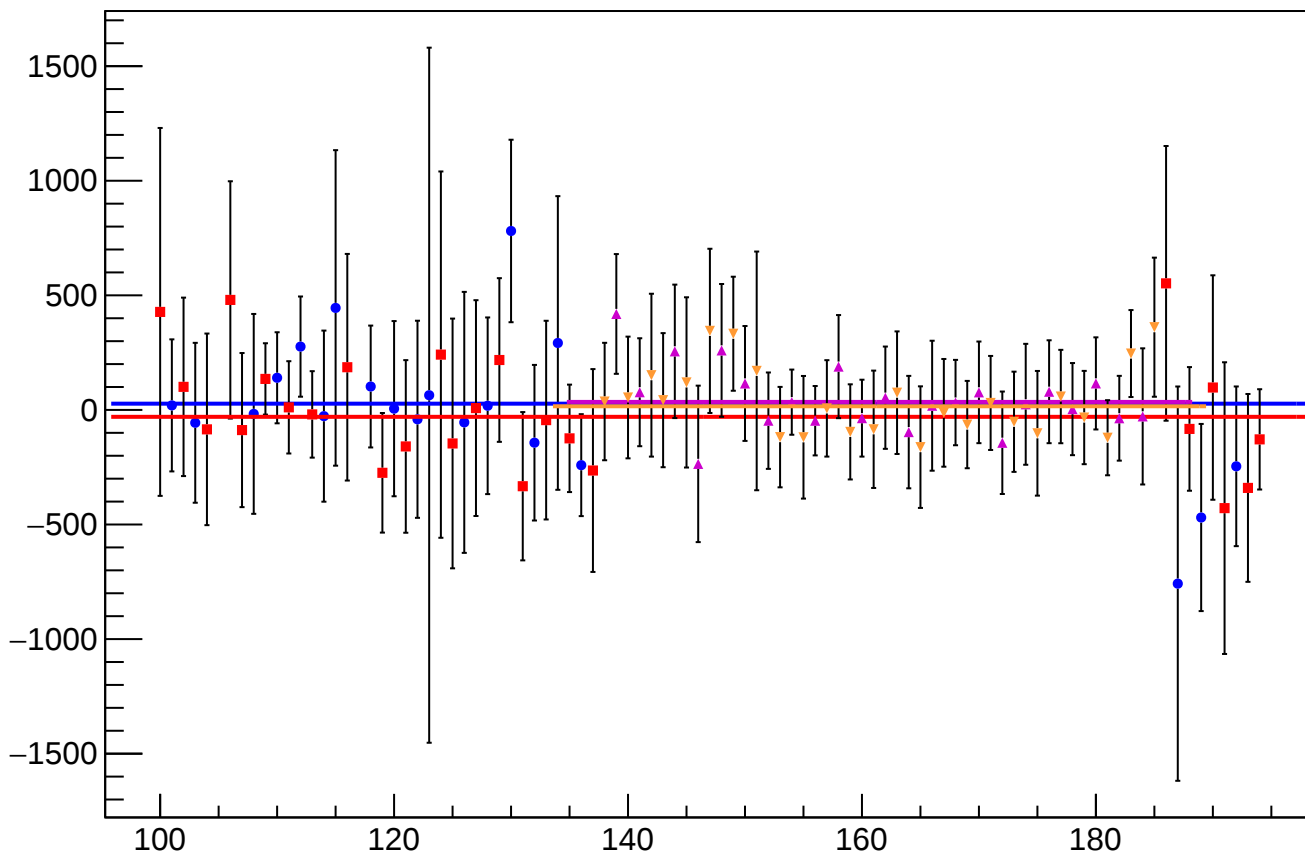
Right: 22.840 $\pm$ 0.004 χ^2 /NDF: 29680.7/44

In: 22.791 $\pm$ 0.003 χ^2 /NDF:27326.3/42

Out: 22.871 $\pm$ 0.003 χ^2 /NDF:30340.5/49

All: 22.834 $\pm$ 0.002 χ^2 /NDF: 58001.9/92

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 27.273+/-76.483 χ^2/NDF : 10.6/19

Left Out: 15.904+/-47.898 χ^2/NDF : 8.4/24

Right Out: -30.131+/-63.021 χ^2/NDF : 8.0/24

Left In: 34.919+/-44.971 χ^2/NDF : 6.6/22

Left: 26.010+/-32.785 χ^2/NDF : 15.1/47

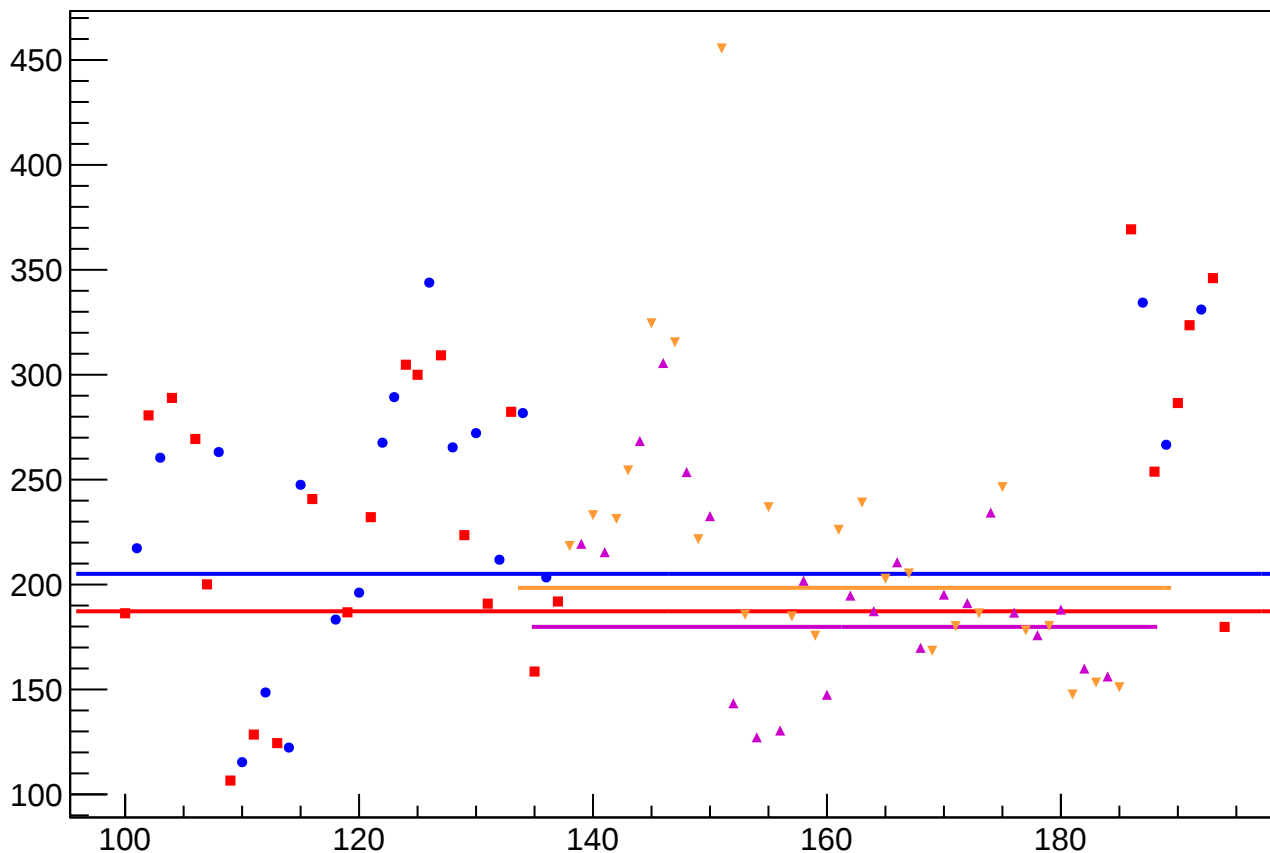
Right: -6.917+/-48.637 χ^2/NDF : 18.9/44

In: 32.954+/-38.766 χ^2/NDF : 17.2/42

Out: -0.952+/-38.134 χ^2/NDF : 16.8/49

All: 15.723+/-27.186 χ^2/NDF : 34.3/92

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.107 ± 0.054 $\chi^2/\text{NDF}: 1406139.2/19$

Left Out: 198.450 ± 0.034 $\chi^2/\text{NDF}: 1761433.9/24$

Right Out: 187.267 ± 0.045 $\chi^2/\text{NDF}: 2460900.8/24$

Left In: 179.839 ± 0.032 $\chi^2/\text{NDF}: 1588834.3/22$

Left: 188.558 ± 0.023 $\chi^2/\text{NDF}: 3510745.5/47$

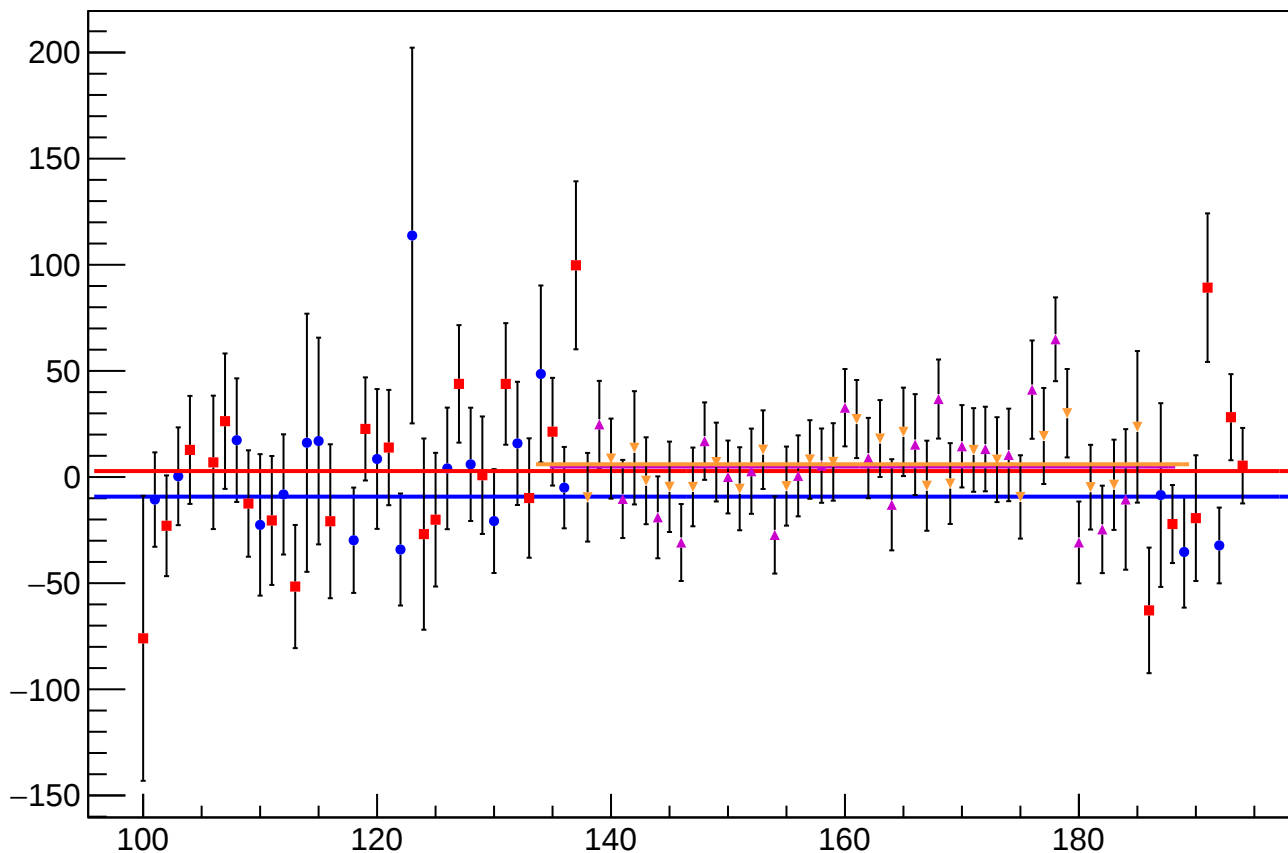
Right: 194.481 ± 0.034 $\chi^2/\text{NDF}: 3931846.0/44$

In: 186.330 ± 0.027 $\chi^2/\text{NDF}: 3157180.7/42$

Out: 194.355 ± 0.027 $\chi^2/\text{NDF}: 4262248.3/49$

All: 190.409 ± 0.019 $\chi^2/\text{NDF}: 7462986.1/92$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.234 ± 6.208 χ^2/NDF : 11.6/19

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 2.817 ± 5.451 χ^2/NDF : 36.0/24

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

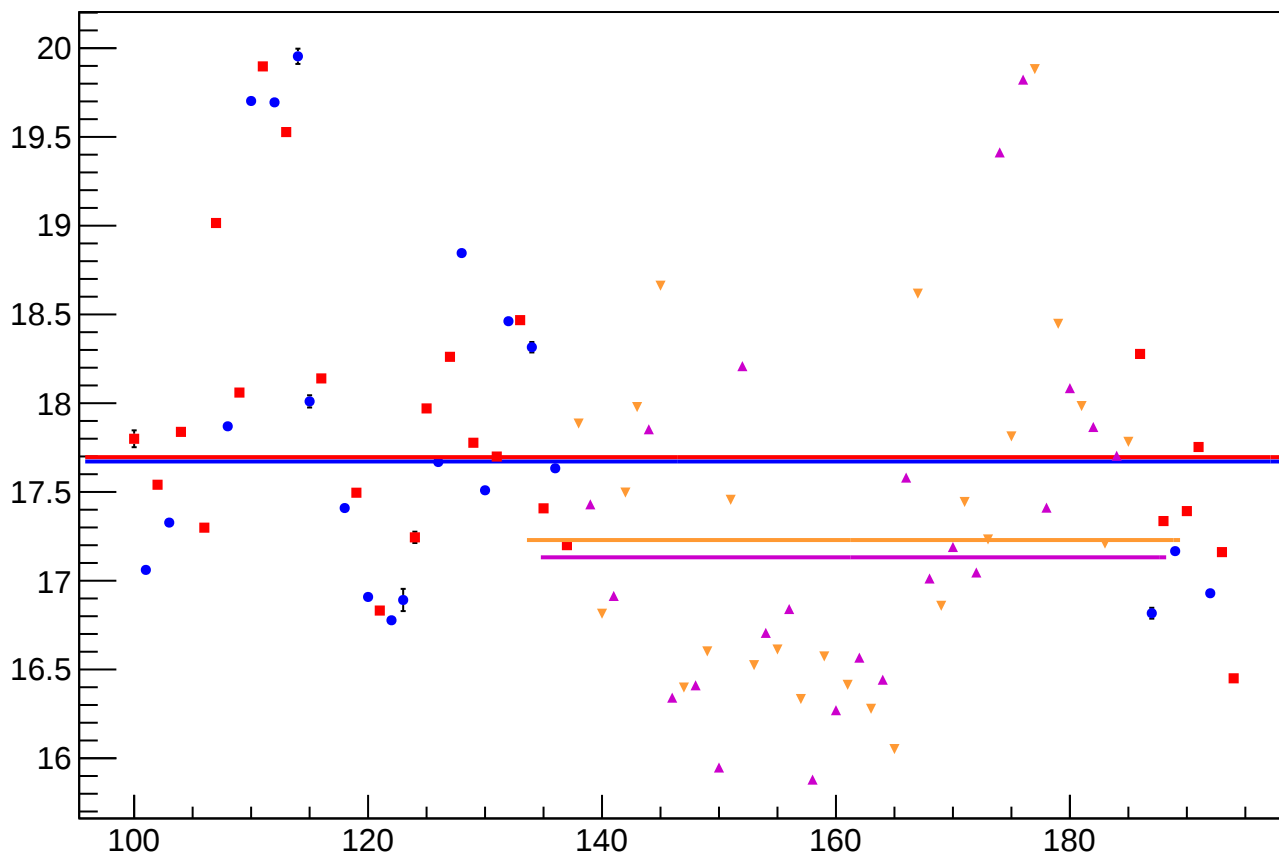
Right: -2.429 ± 4.096 χ^2/NDF : 49.7/44

In: 0.627 ± 3.426 χ^2/NDF : 50.0/42

Out: 4.893 ± 3.234 χ^2/NDF : 44.3/49

All: 2.882 ± 2.352 χ^2/NDF : 95.2/92

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.672 $\pm$ 0.004 χ^2 /NDF: 37254.9/19

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF: 98624.7/24

Right Out: 17.696 $\pm$ 0.004 χ^2 /NDF: 41493.2/24

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF: 103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

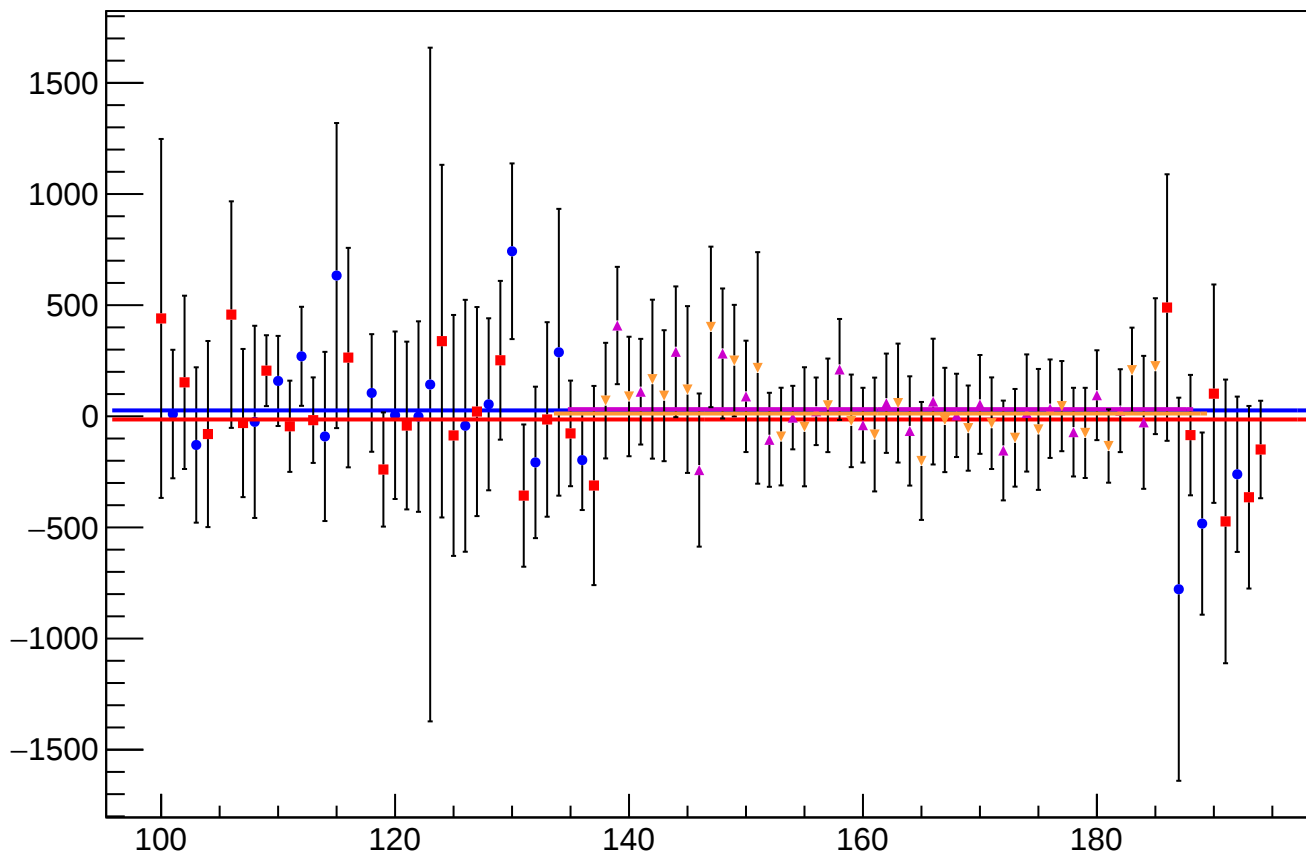
Right: 17.686 $\pm$ 0.003 χ^2 /NDF: 78765.6/44

In: 17.296 $\pm$ 0.002 χ^2 /NDF: 151773.3/42

Out: 17.393 $\pm$ 0.002 χ^2 /NDF: 149632.8/49

All: 17.348 $\pm$ 0.002 χ^2 /NDF: 302258.9/92

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 26.495 $\pm$ 76.986 χ^2 /NDF: 10.8/19

Left Out: 12.474 $\pm$ 48.086 χ^2 /NDF:6.8/24

Right Out: -14.281 $\pm$ 63.525 χ^2 /NDF: 9.3/24

Left In: 32.159 $\pm$ 45.131 χ^2 /NDF:6.9/22

Left: 22.940 $\pm$ 32.908 χ^2 /NDF: 13.9/47

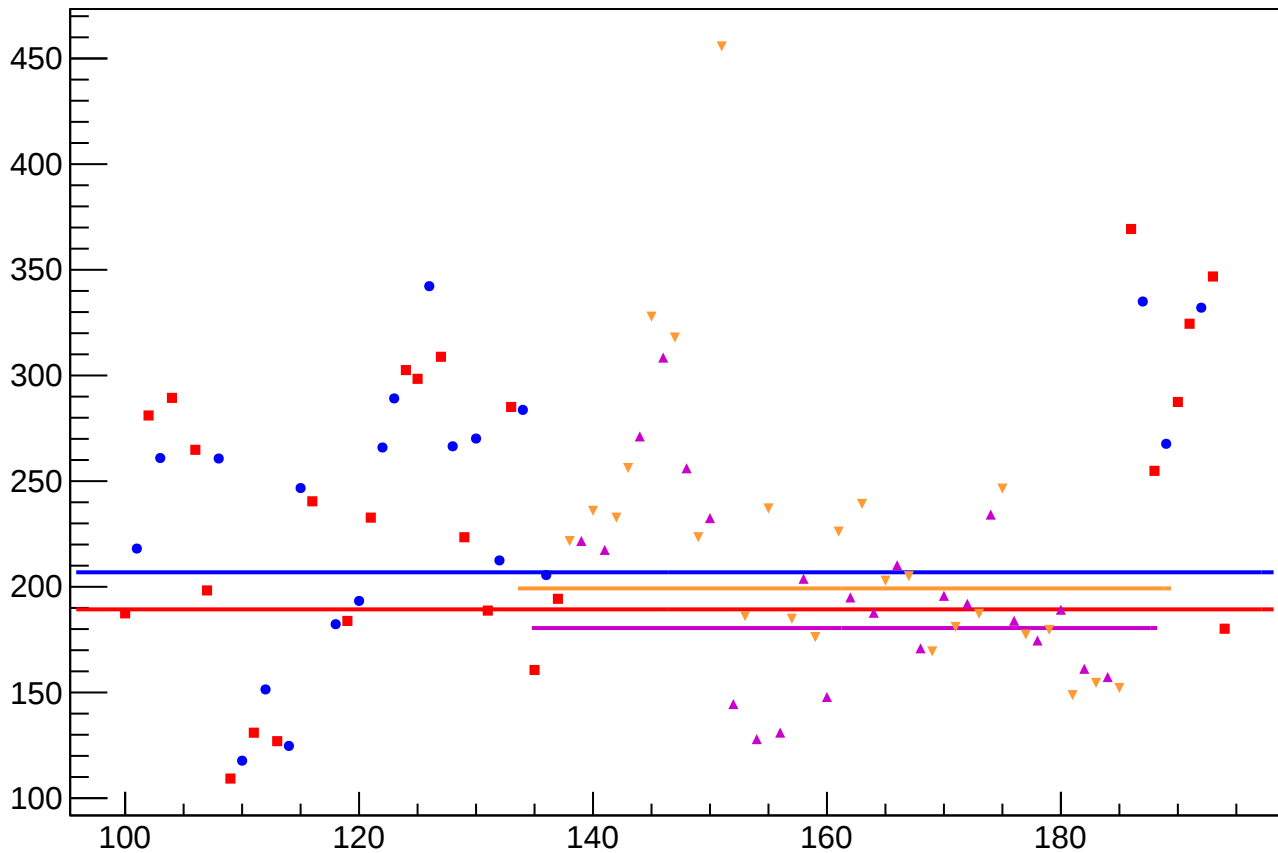
Right: 2.236 $\pm$ 48.998 χ^2 /NDF: 20.3/44

In: 30.711 $\pm$ 38.934 χ^2 /NDF:17.8/42

Out: 2.728 $\pm$ 38.340 χ^2 /NDF:16.2/49

All: 16.505 $\pm$ 27.318 χ^2 /NDF: 34.3/92

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.869 $\pm$ 0.054 χ^2 /NDF: 1342898.7/19

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 189.332 $\pm$ 0.045 χ^2 /NDF: 2353994.2/24

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

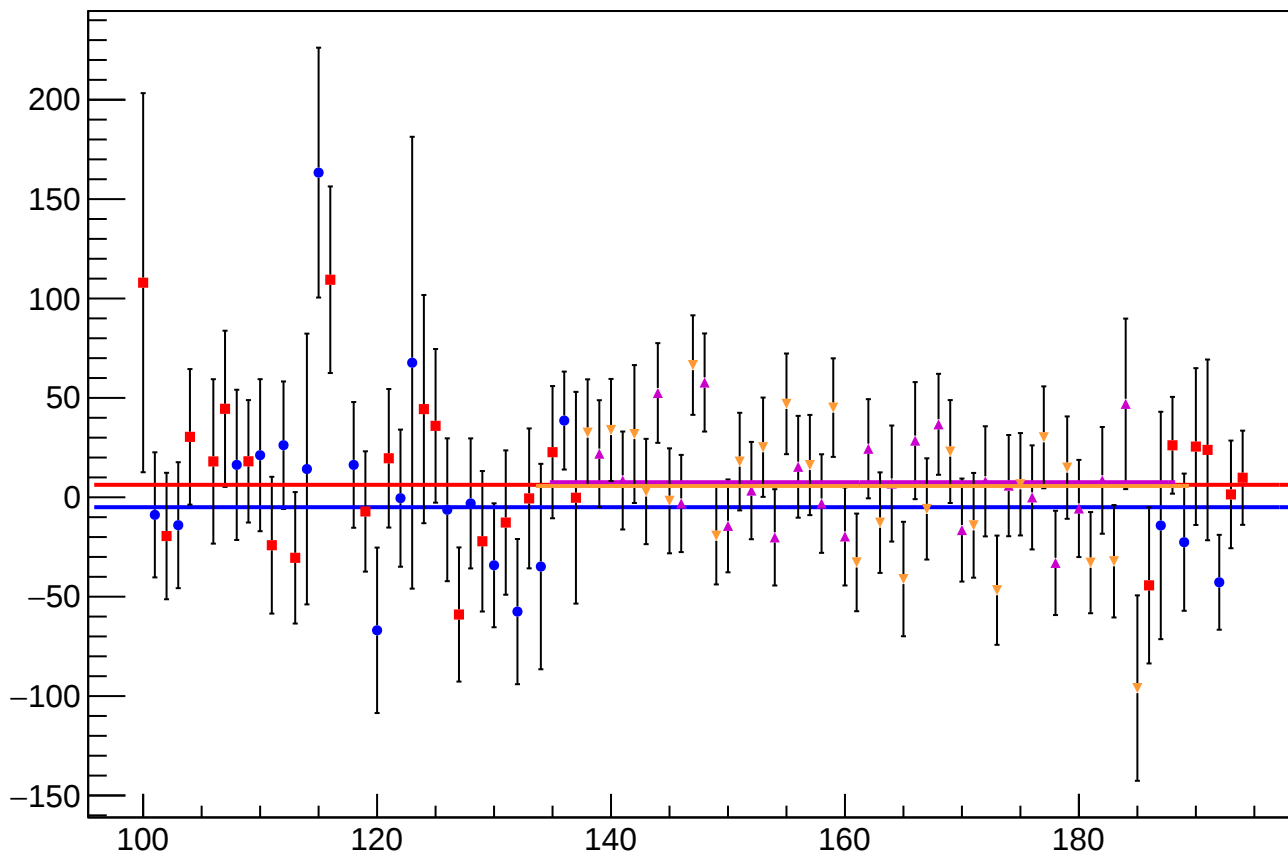
Right: 196.436 $\pm$ 0.035 χ^2 /NDF: 3758637.0/44

In: 187.240 $\pm$ 0.028 χ^2 /NDF:3111398.2/42

Out: 195.632 $\pm$ 0.027 χ^2 /NDF:4149028.5/49

All: 191.500 $\pm$ 0.019 χ^2 /NDF: 7307599.3/92

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.979 ± 7.971 χ^2/NDF : 21.4/19

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 6.280 ± 6.992 χ^2/NDF : 19.4/24

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

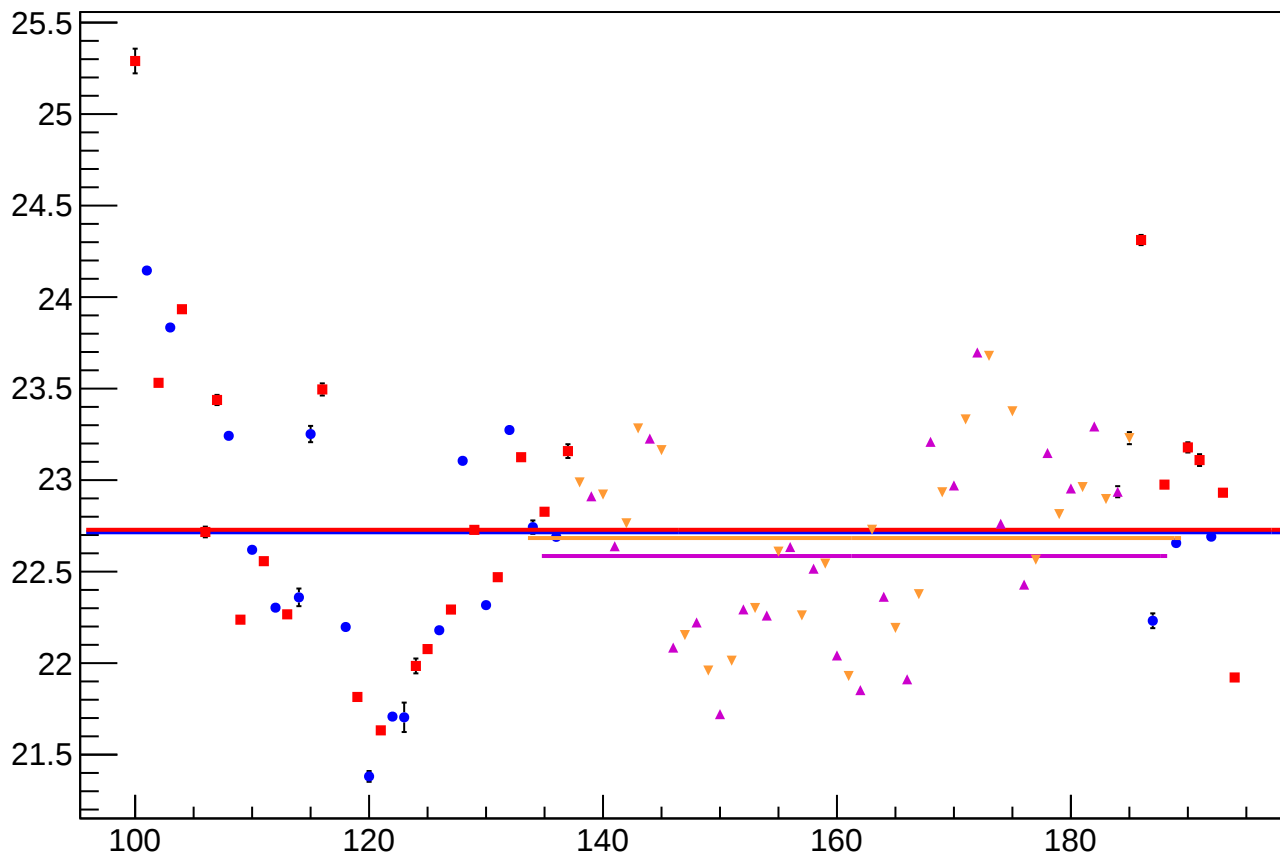
Right: 1.384 ± 5.256 χ^2/NDF : 41.9/44

In: 3.637 ± 4.472 χ^2/NDF : 41.4/42

Out: 5.893 ± 4.212 χ^2/NDF : 55.8/49

All: 4.833 ± 3.066 χ^2/NDF : 97.3/92

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.715 $\pm$ 0.006 χ^2 /NDF: 13689.8/19

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16318.1/24

Right Out: 22.729 $\pm$ 0.005 χ^2 /NDF: 19176.1/24

Left In: 22.585 $\pm$ 0.004 χ^2 /NDF:18087.5/22

Left: 22.635 $\pm$ 0.003 χ^2 /NDF: 34743.7/47

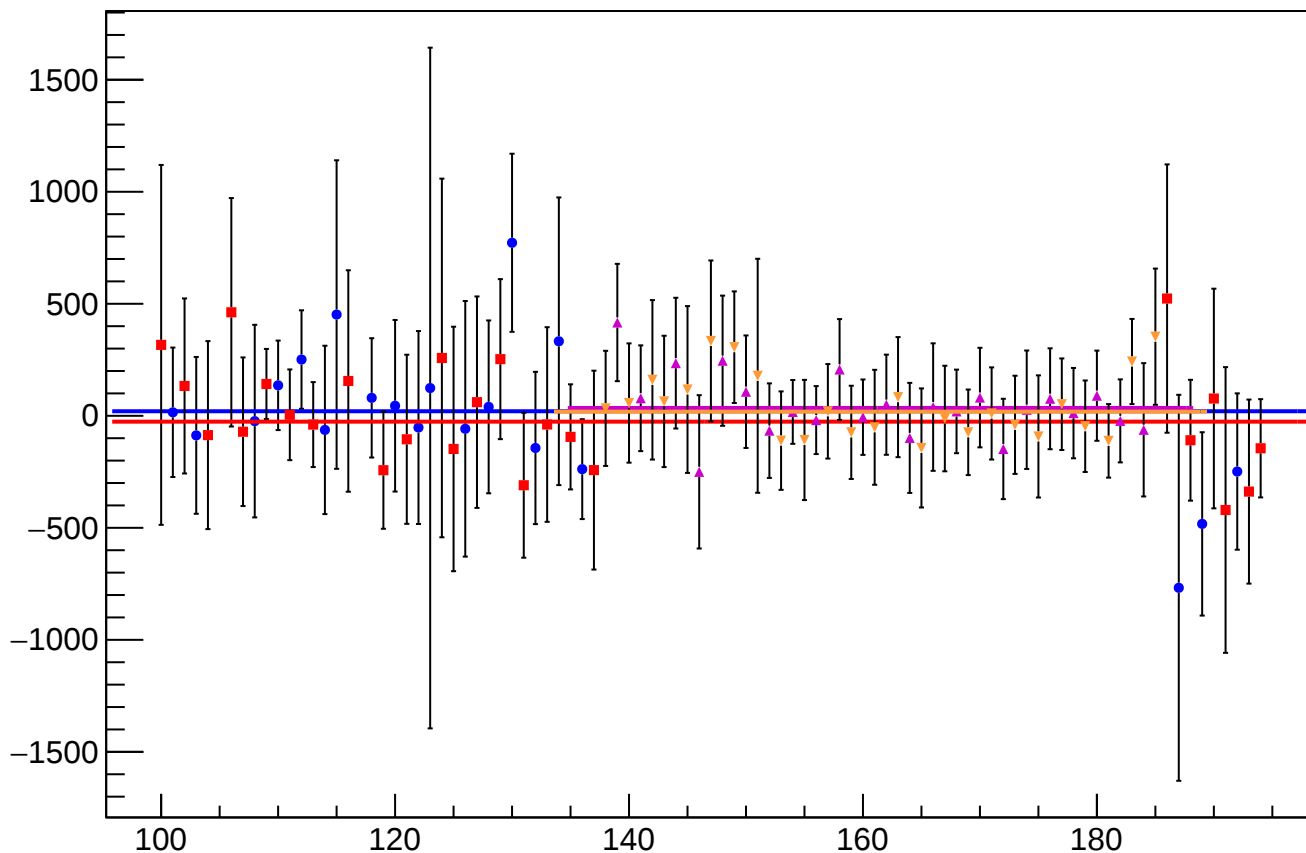
Right: 22.723 $\pm$ 0.004 χ^2 /NDF: 32869.2/44

In: 22.626 $\pm$ 0.003 χ^2 /NDF:32140.1/42

Out: 22.700 $\pm$ 0.003 χ^2 /NDF:35547.2/49

All: 22.665 $\pm$ 0.002 χ^2 /NDF: 67975.8/92

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 20.334+/-76.671 χ^2/NDF : 10.4/19

Left Out: 18.633+/-48.006 χ^2/NDF : 7.6/24

Right Out: -26.104+/-63.153 χ^2/NDF : 7.5/24

Left In: 35.046+/-45.063 χ^2/NDF : 6.3/22

Left: 27.358+/-32.855 χ^2/NDF : 13.9/47

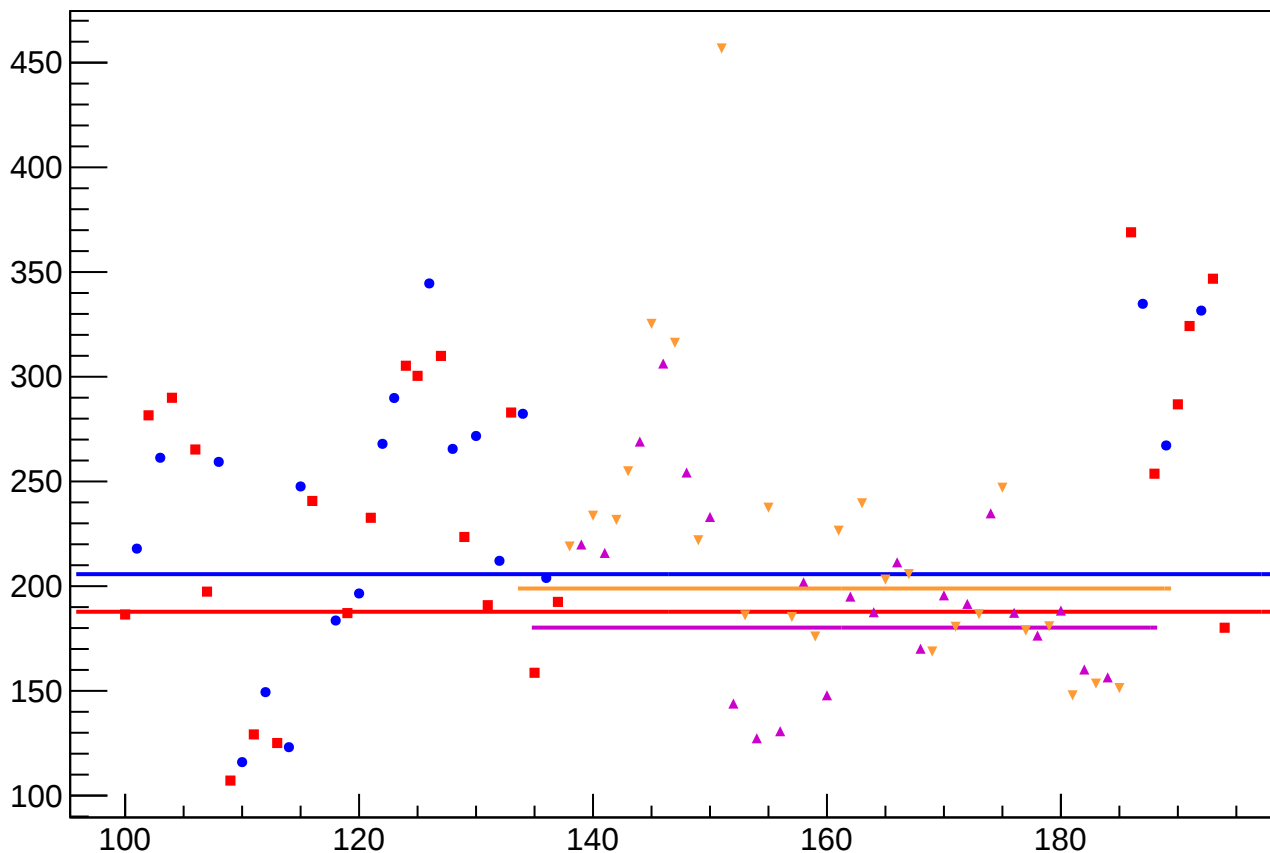
Right: -7.333+/-48.746 χ^2/NDF : 18.1/44

In: 31.269+/-38.850 χ^2/NDF : 16.7/42

Out: 2.249+/-38.218 χ^2/NDF : 15.4/49

All: 16.521+/-27.245 χ^2/NDF : 32.4/92

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.731 $\pm$ 0.054 χ^2 /NDF: 1388562.1/19

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF: 1762454.6/24

Right Out: 187.779 $\pm$ 0.045 χ^2 /NDF: 2437232.7/24

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF: 1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

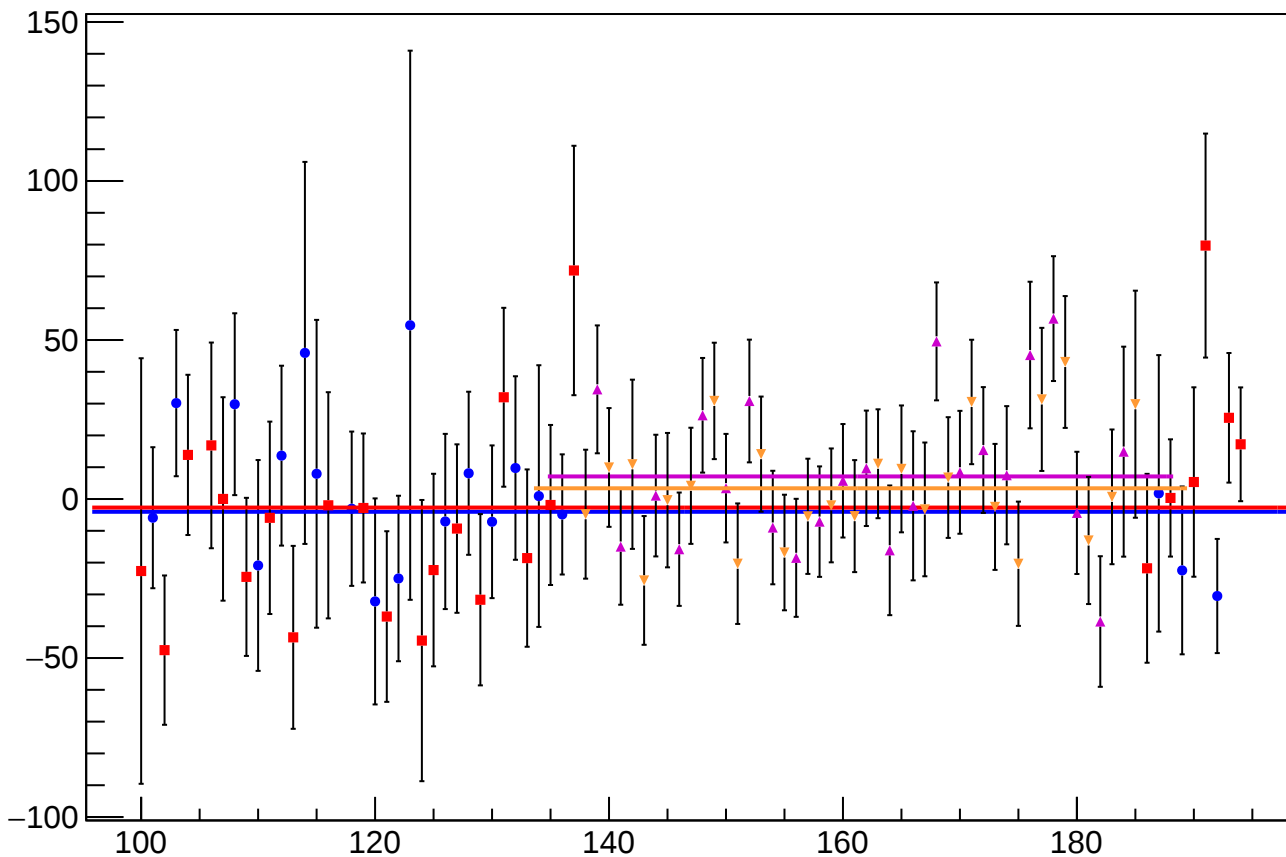
Right: 195.036 $\pm$ 0.034 χ^2 /NDF: 3891123.5/44

In: 186.760 $\pm$ 0.027 χ^2 /NDF: 3142308.9/42

Out: 194.821 $\pm$ 0.027 χ^2 /NDF: 4238929.1/49

All: 190.857 $\pm$ 0.019 χ^2 /NDF: 7424994.9/92

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.015 ± 6.142 χ^2/NDF : 10.1/19

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: -2.688 ± 5.407 χ^2/NDF : 26.1/24

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

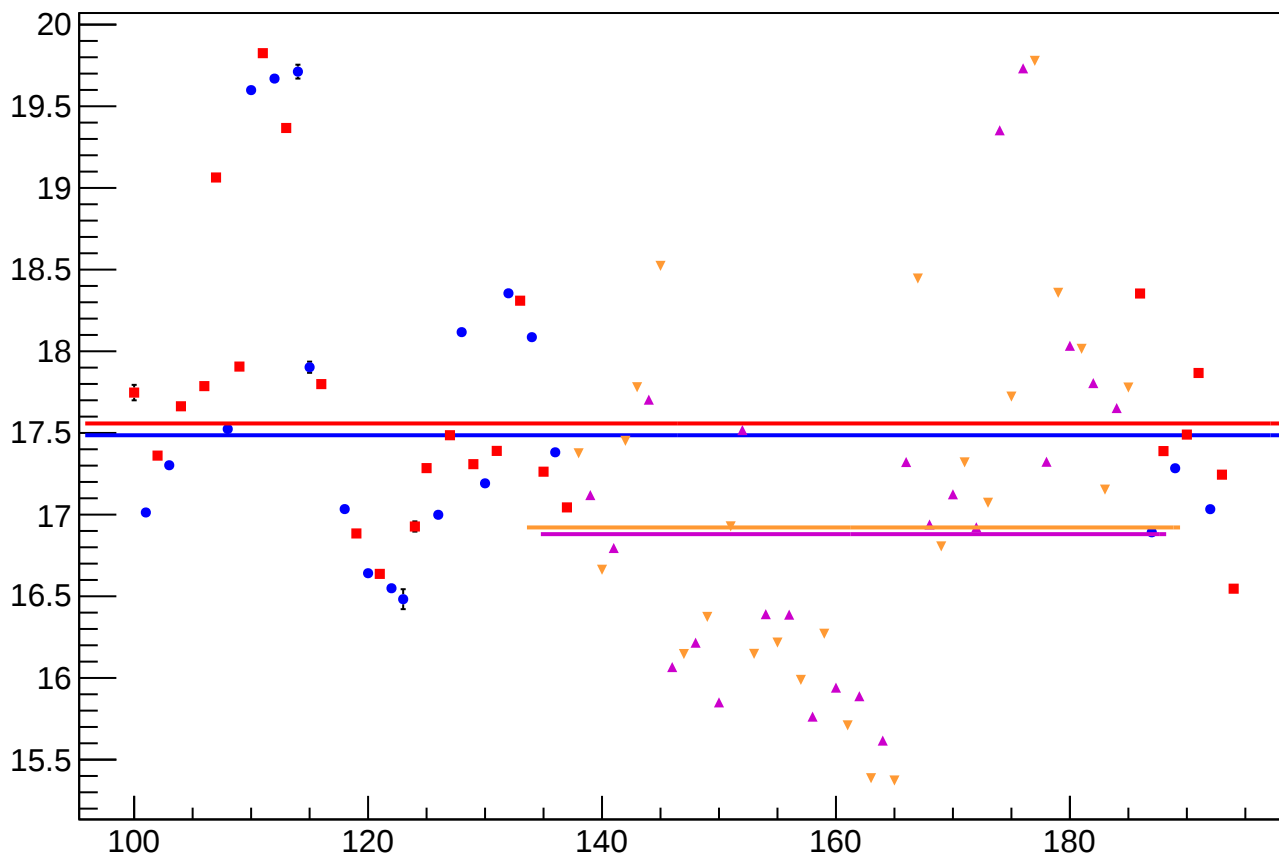
Right: -3.267 ± 4.059 χ^2/NDF : 36.2/44

In: 3.734 ± 3.380 χ^2/NDF : 44.9/42

Out: 1.266 ± 3.188 χ^2/NDF : 45.7/49

All: 2.428 ± 2.319 χ^2/NDF : 90.9/92

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.486 $\pm$ 0.004 χ^2 /NDF: 35100.4/19

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.558 $\pm$ 0.004 χ^2 /NDF: 39896.4/24

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

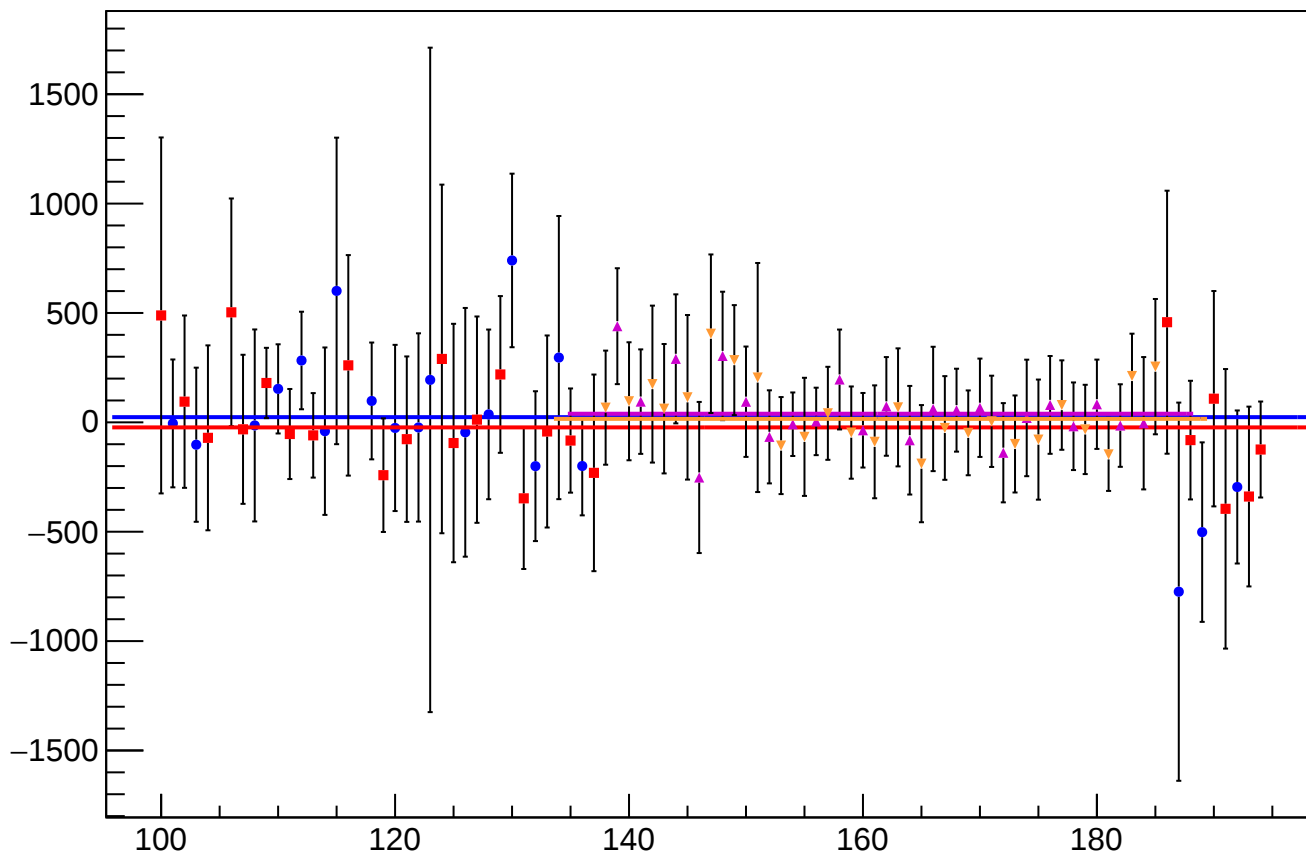
Right: 17.527 $\pm$ 0.003 χ^2 /NDF: 75152.4/44

In: 17.064 $\pm$ 0.002 χ^2 /NDF:170387.5/42

Out: 17.143 $\pm$ 0.002 χ^2 /NDF:196973.1/49

All: 17.106 $\pm$ 0.002 χ^2 /NDF: 367938.6/92

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 23.739 $\pm$ 77.404 χ^2 /NDF: 10.9/19

Left Out: 15.970 $\pm$ 48.503 χ^2 /NDF:7.4/24

Right Out: -23.085 $\pm$ 63.892 χ^2 /NDF: 8.0/24

Left In: 39.377 $\pm$ 45.571 χ^2 /NDF:6.9/22

Left: 28.402 $\pm$ 33.212 χ^2 /NDF: 14.4/47

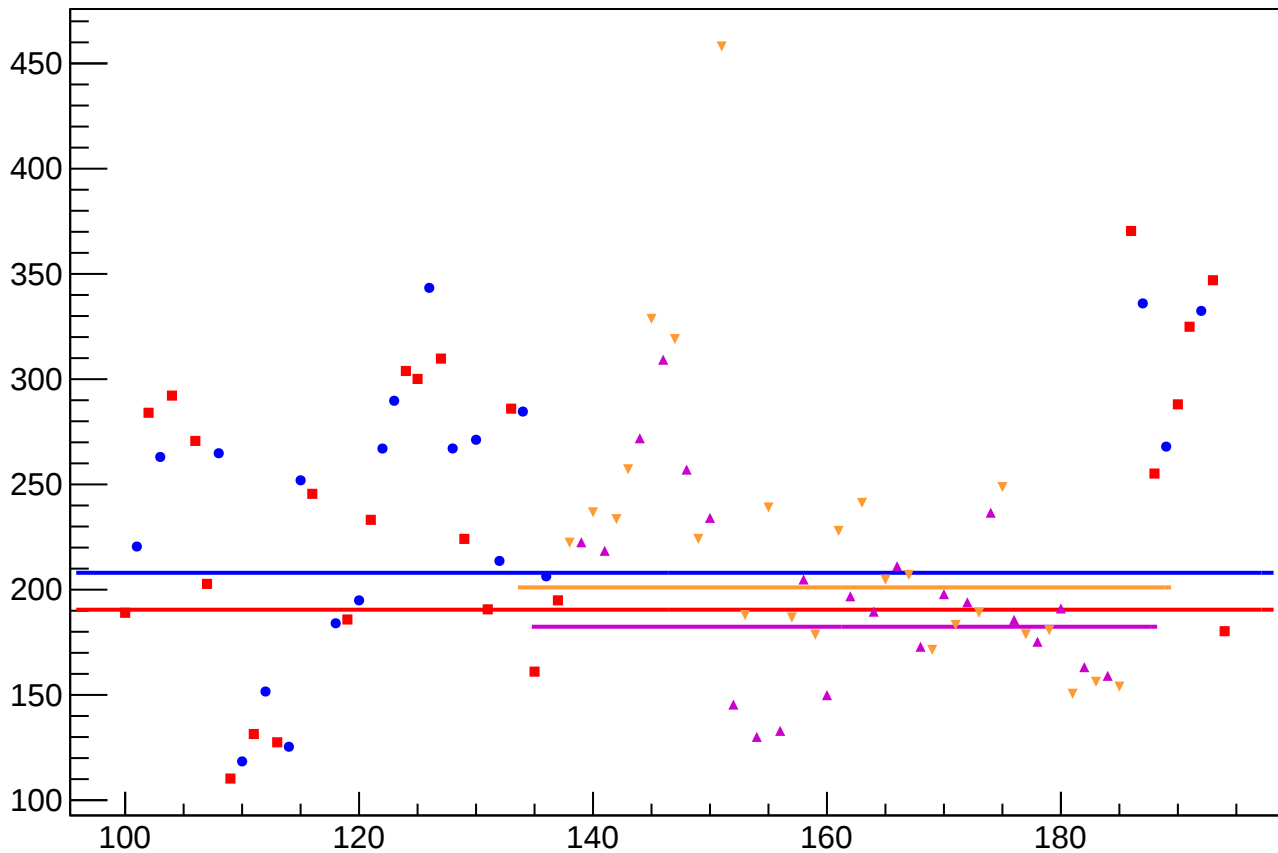
Right: -4.110 $\pm$ 49.274 χ^2 /NDF: 19.2/44

In: 35.352 $\pm$ 39.270 χ^2 /NDF:17.8/42

Out: 1.691 $\pm$ 38.632 χ^2 /NDF:15.6/49

All: 18.246 $\pm$ 27.540 χ^2 /NDF: 33.8/92

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 208.027 $\pm$ 0.055 χ^2 /NDF: 1342090.4/19

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 190.491 $\pm$ 0.045 χ^2 /NDF: 2350910.3/24

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

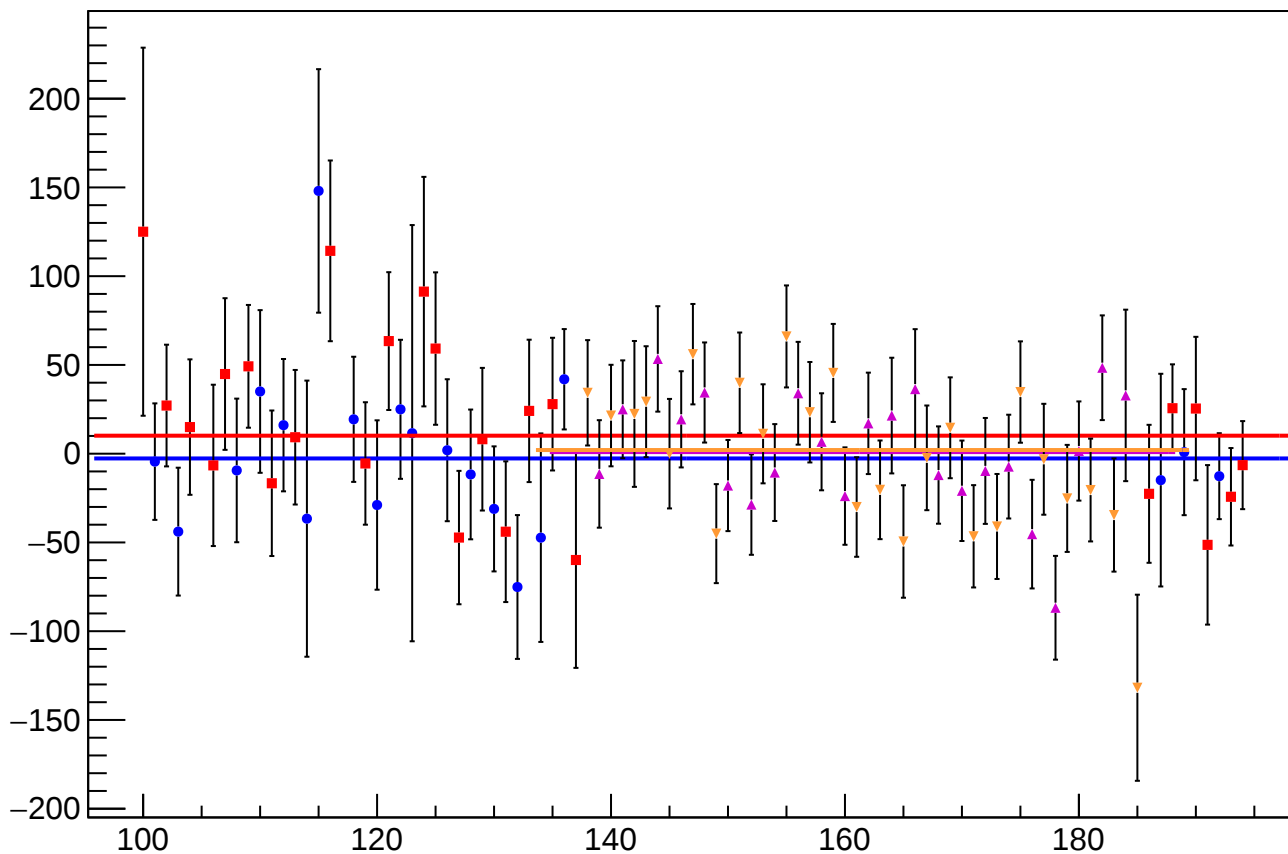
Right: 197.597 $\pm$ 0.035 χ^2 /NDF: 3754053.8/44

In: 188.993 $\pm$ 0.028 χ^2 /NDF:3053847.4/42

Out: 197.216 $\pm$ 0.027 χ^2 /NDF:4116903.9/49

All: 193.172 $\pm$ 0.019 χ^2 /NDF: 7215307.2/92

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.684 ± 8.783 χ^2/NDF : 15.7/19

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 10.143 ± 7.582 χ^2/NDF : 24.2/24

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

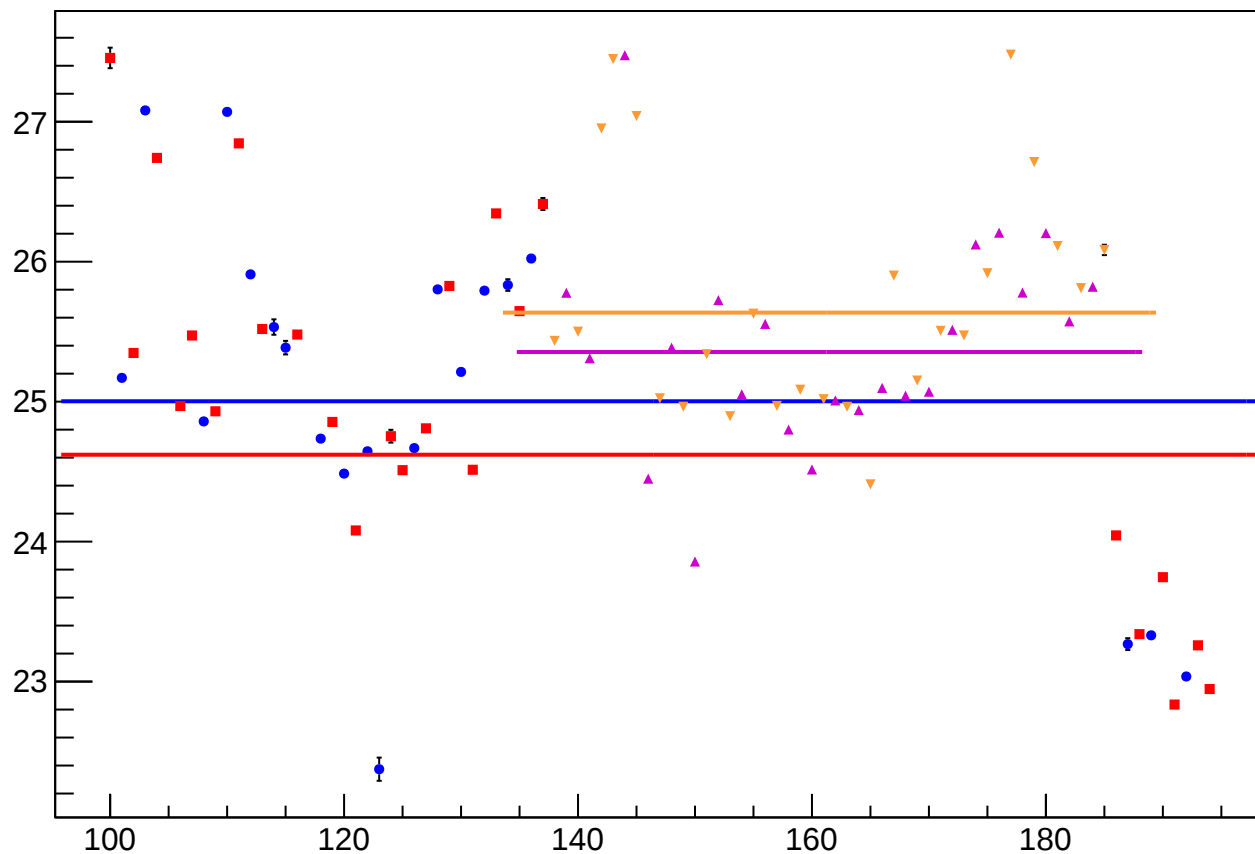
Right: 4.666 ± 5.740 χ^2/NDF : 41.1/44

In: -0.258 ± 4.993 χ^2/NDF : 42.9/42

Out: 5.149 ± 4.691 χ^2/NDF : 64.3/49

All: 2.614 ± 3.419 χ^2/NDF : 107.8/92

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.003 $\pm$ 0.006 χ^2 /NDF: 37913.9/19

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.621 $\pm$ 0.005 χ^2 /NDF: 50488.1/24

Left In: 25.355 $\pm$ 0.004 χ^2 /NDF:29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 67081.3/47

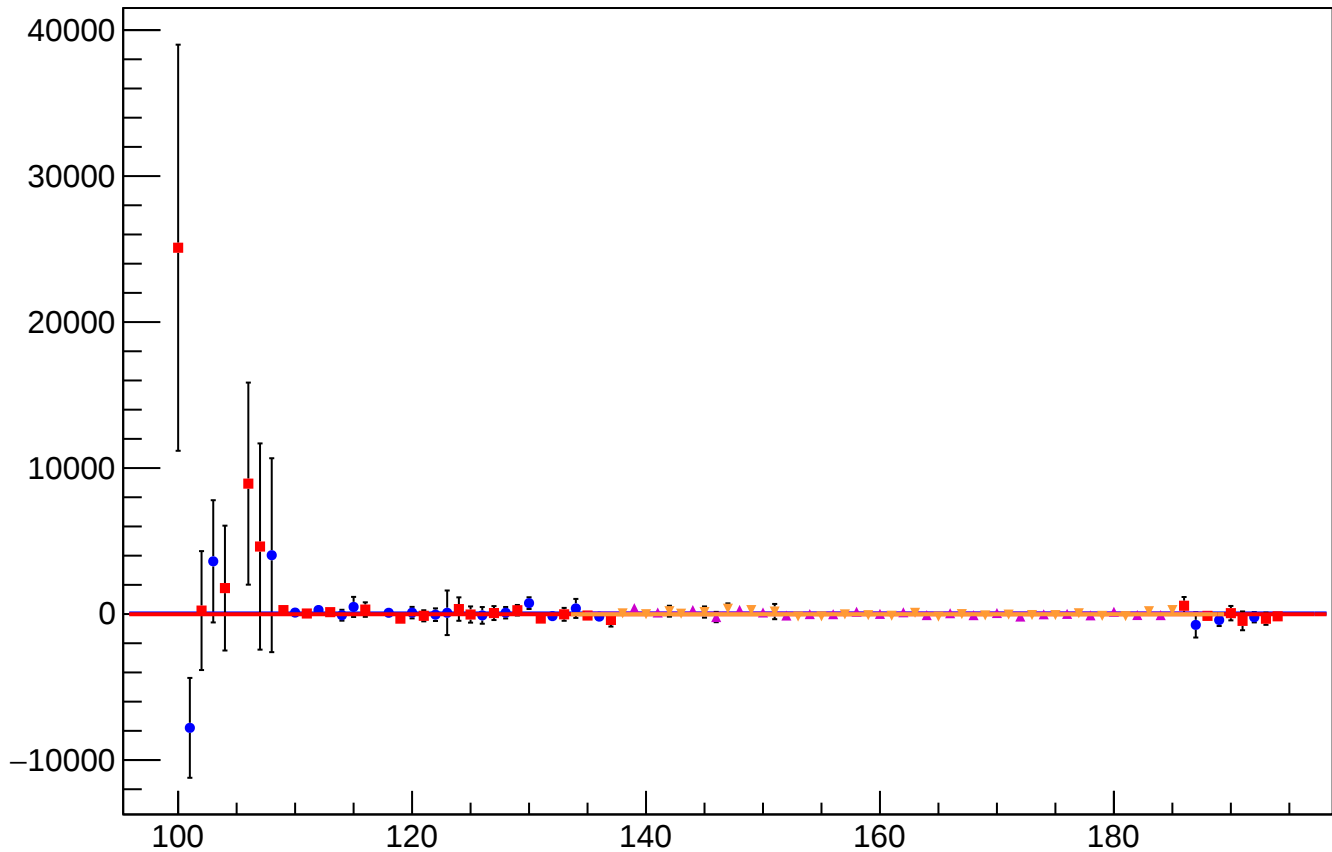
Right: 24.784 $\pm$ 0.004 χ^2 /NDF: 90568.5/44

In: 25.241 $\pm$ 0.004 χ^2 /NDF:69854.5/42

Out: 25.248 $\pm$ 0.003 χ^2 /NDF:107754.6/49

All: 25.244 $\pm$ 0.002 χ^2 /NDF: 177610.9/92

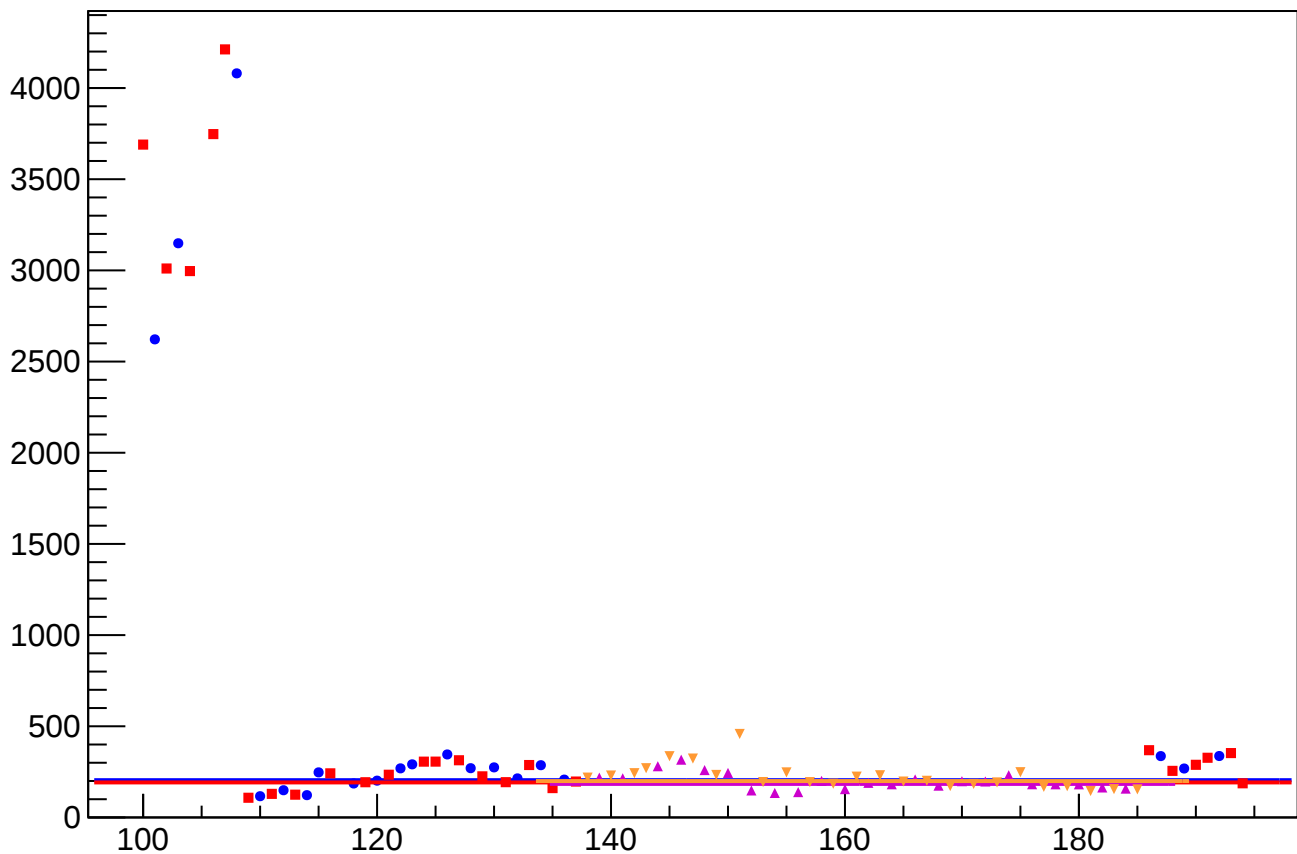
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 42.429+/-83.853 χ^2/NDF : 15.4/19
 Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24
 Right Out: -14.100+/-70.612 χ^2/NDF : 14.7/24
 Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47
 Right: 9.354+/-54.012 χ^2/NDF : 30.4/44
 In: 30.428+/-40.246 χ^2/NDF : 22.9/42
 Out: -13.227+/-39.819 χ^2/NDF : 22.6/49
 All: 8.367+/-28.306 χ^2/NDF : 46.1/92

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.388 $\pm$ 0.059 χ^2 /NDF: 3991478.9/19

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 192.121 $\pm$ 0.050 χ^2 /NDF: 5057435.6/24

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

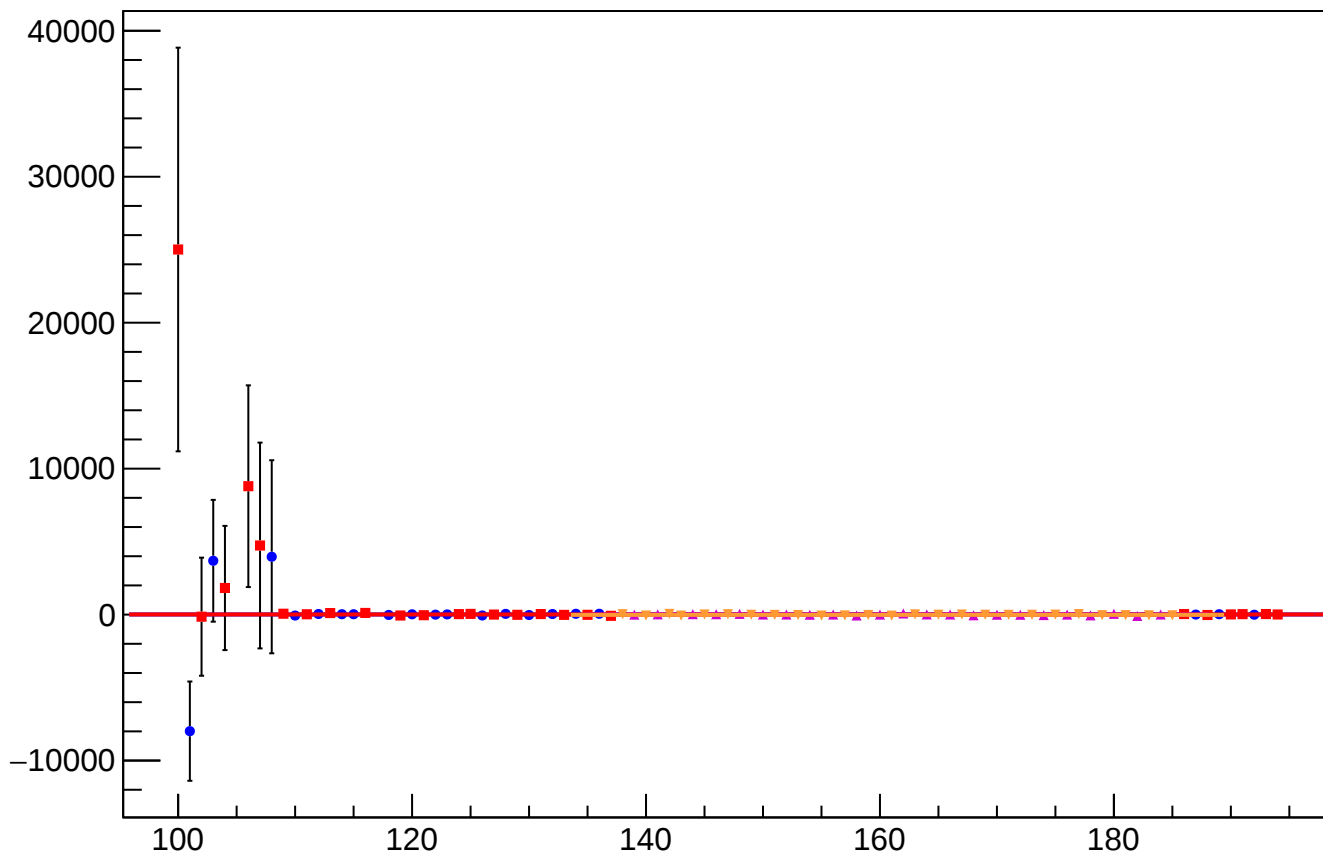
Right: 197.211 $\pm$ 0.038 χ^2 /NDF: 9073957.7/44

In: 188.721 $\pm$ 0.028 χ^2 /NDF:5505649.2/42

Out: 197.178 $\pm$ 0.028 χ^2 /NDF:6953023.3/49

All: 192.995 $\pm$ 0.020 χ^2 /NDF: 12503297.5/92

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.168+/-10.750 χ^2/NDF : 19.5/19

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 11.577+/-9.472 χ^2/NDF : 26.9/24

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

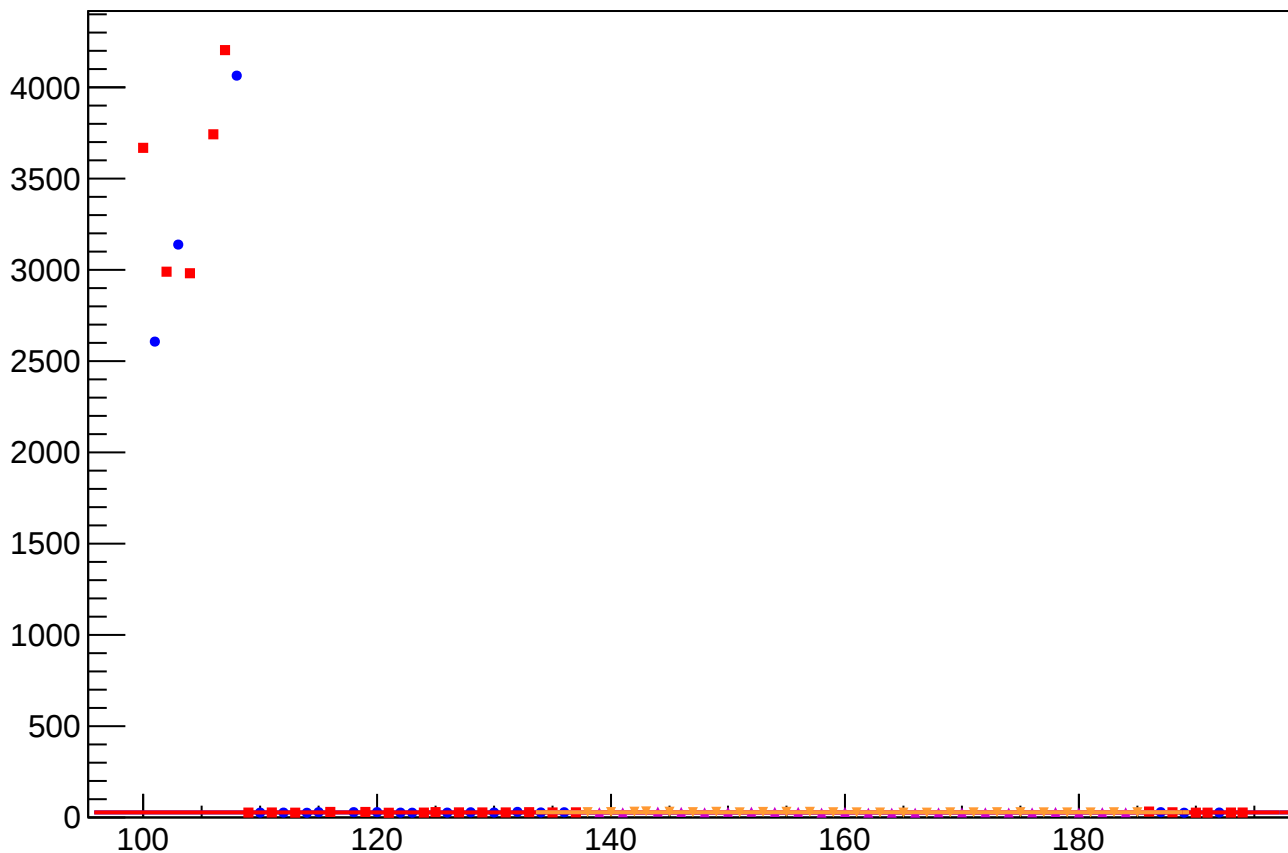
Right: 10.524+/-7.107 χ^2/NDF : 46.5/44

In: 3.400+/-5.795 χ^2/NDF : 52.4/42

Out: -7.869+/-5.466 χ^2/NDF : 55.6/49

All: -2.563+/-3.976 χ^2/NDF : 109.9/92

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.622 $\pm$ 0.008 χ^2 /NDF: 3034137.4/19

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF:110483.8/24

Right Out: 27.638 $\pm$ 0.007 χ^2 /NDF: 3499117.0/24

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF:124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

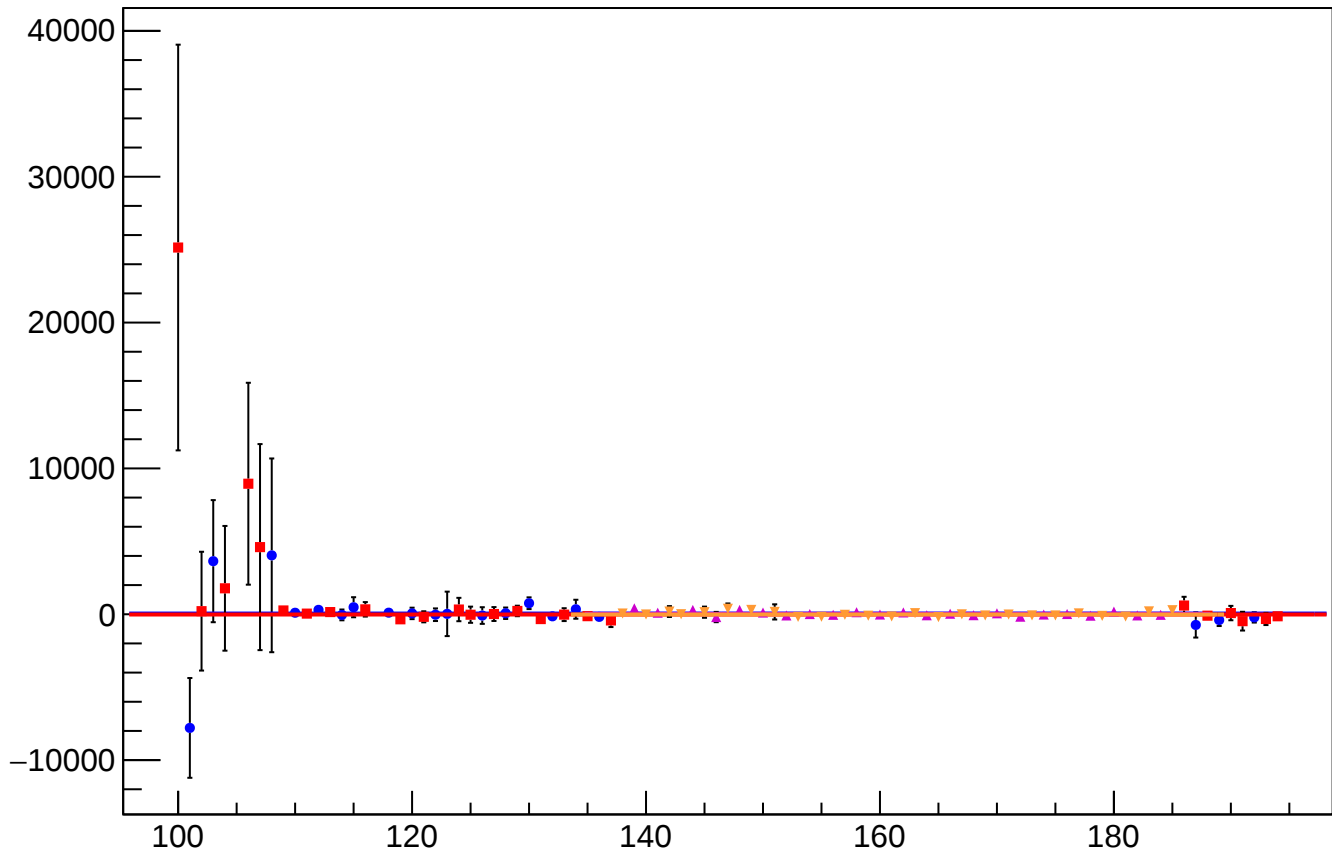
Right: 27.631 $\pm$ 0.005 χ^2 /NDF: 6533257.0/44

In: 28.367 $\pm$ 0.004 χ^2 /NDF:3172444.1/42

Out: 28.340 $\pm$ 0.004 χ^2 /NDF:3626062.7/49

All: 28.353 $\pm$ 0.003 χ^2 /NDF: 6798530.0/92

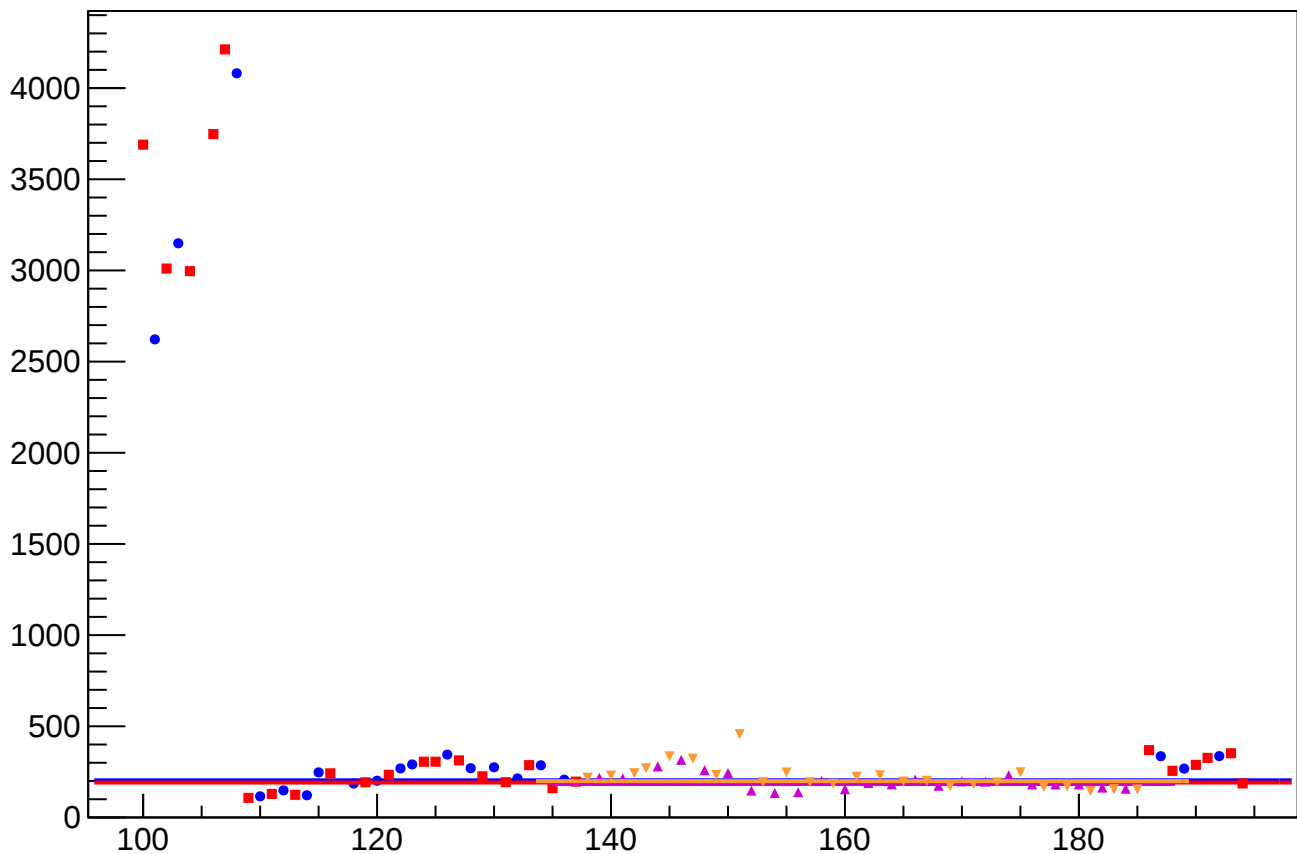
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.297+/-83.603 χ^2/NDF : 15.6/19
 Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24
 Right Out: -17.625+/-70.418 χ^2/NDF : 15.4/24
 Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47
 Right: 9.733+/-53.859 χ^2/NDF : 31.3/44
 In: 31.921+/-40.157 χ^2/NDF : 23.4/42
 Out: -16.164+/-39.724 χ^2/NDF : 24.1/49
 All: 7.617+/-28.241 χ^2/NDF : 48.2/92

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 203.660 $\pm$ 0.059 χ^2 /NDF: 4006099.3/19

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 191.483 $\pm$ 0.050 χ^2 /NDF: 5075595.6/24

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

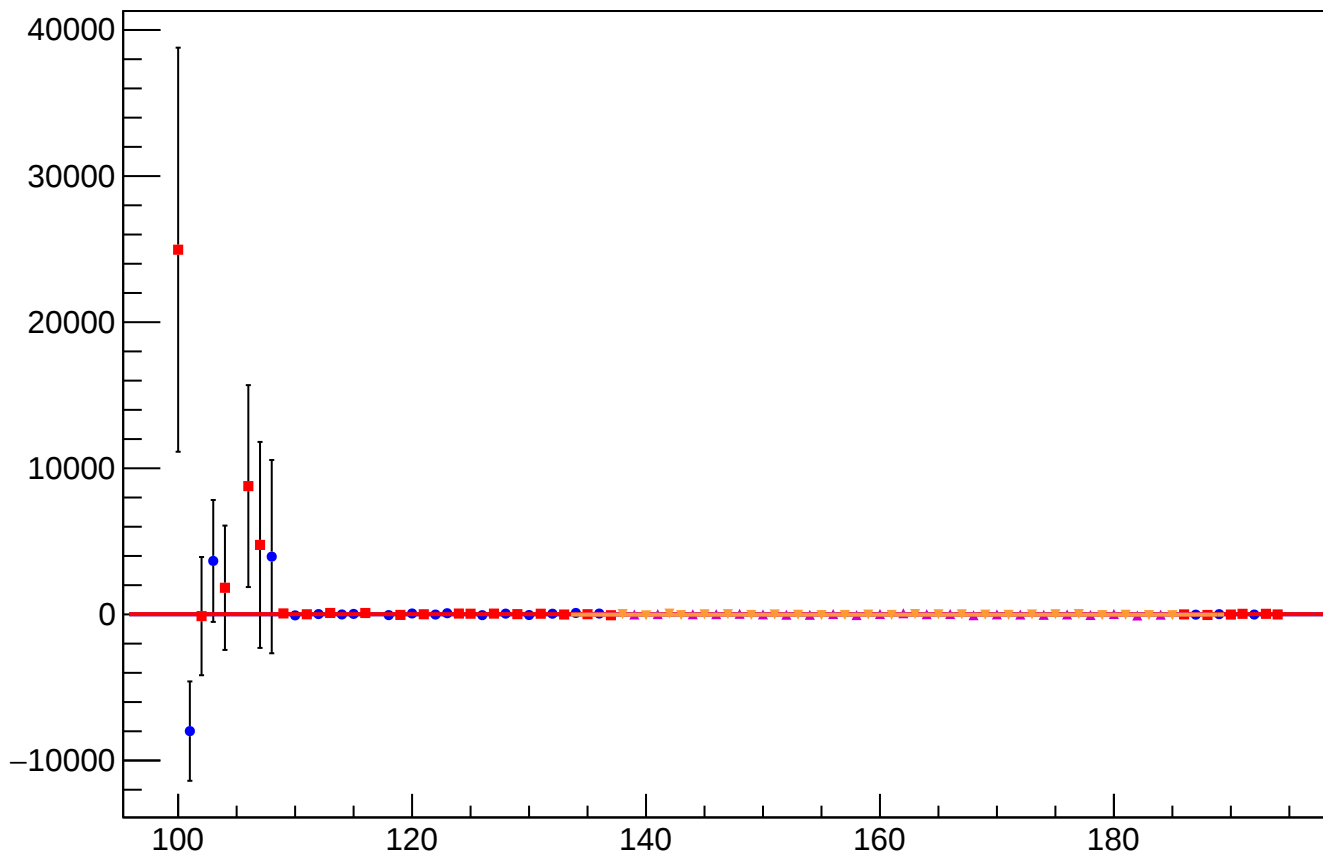
Right: 196.537 $\pm$ 0.038 χ^2 /NDF: 9106515.0/44

In: 188.280 $\pm$ 0.028 χ^2 /NDF:5516984.8/42

Out: 196.672 $\pm$ 0.028 χ^2 /NDF:6971865.6/49

All: 192.522 $\pm$ 0.020 χ^2 /NDF: 12532997.8/92

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.379+/-10.802 χ^2/NDF : 23.4/19

Left Out: -15.006+/-6.723 χ^2/NDF :17.5/24

Right Out: 16.750+/-9.508 χ^2/NDF : 22.6/24

Left In: -0.702+/-6.909 χ^2/NDF :26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

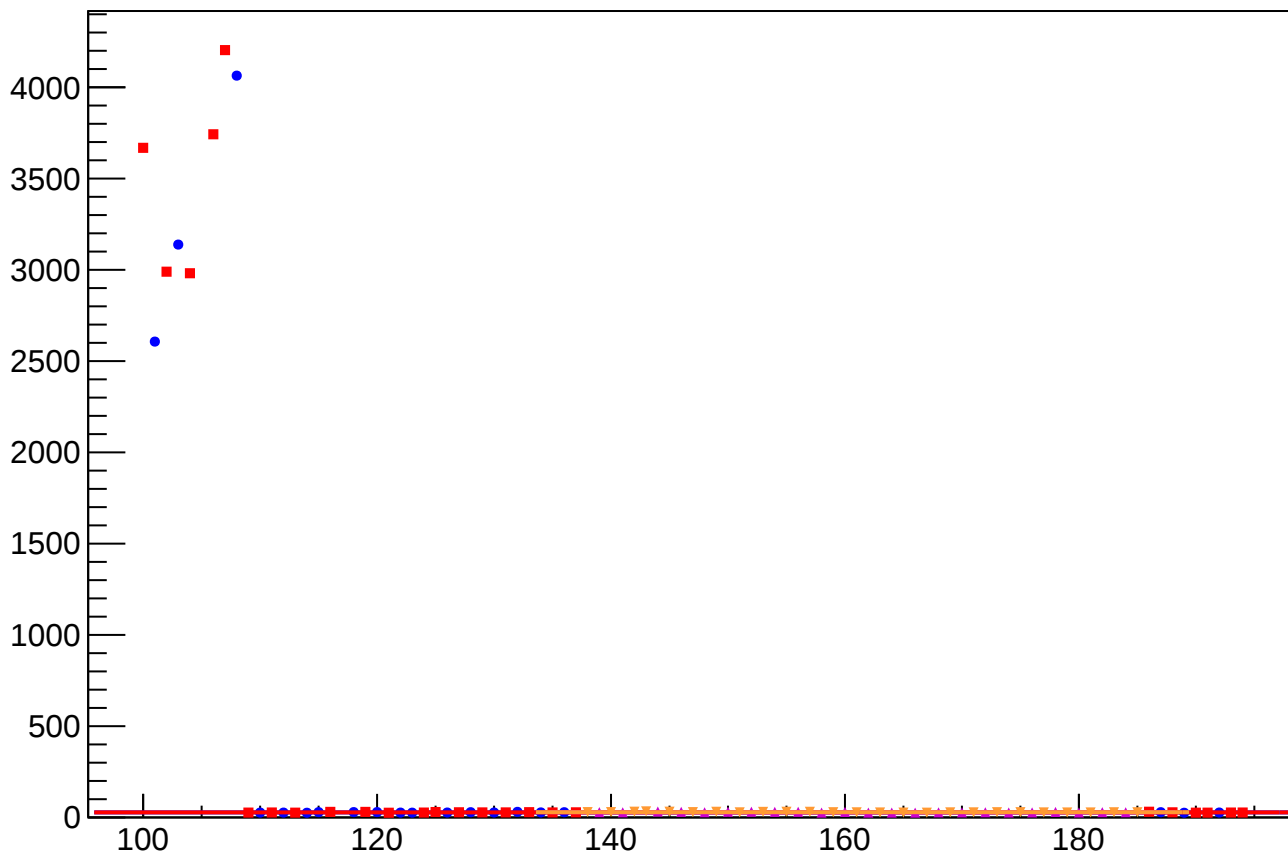
Right: 11.786+/-7.137 χ^2/NDF : 46.6/44

In: 1.063+/-5.820 χ^2/NDF :50.0/42

Out: -4.421+/-5.490 χ^2/NDF :47.5/49

All: -1.839+/-3.994 χ^2/NDF : 97.9/92

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.750+/-0.008 χ^2/NDF : 3036416.2/19

Left Out: 28.813+/-0.005 χ^2/NDF : 121973.8/24

Right Out: 27.745+/-0.007 χ^2/NDF : 3497319.8/24

Left In: 28.792+/-0.005 χ^2/NDF : 129393.1/22

Left: 28.803+/-0.003 χ^2/NDF : 251375.8/47

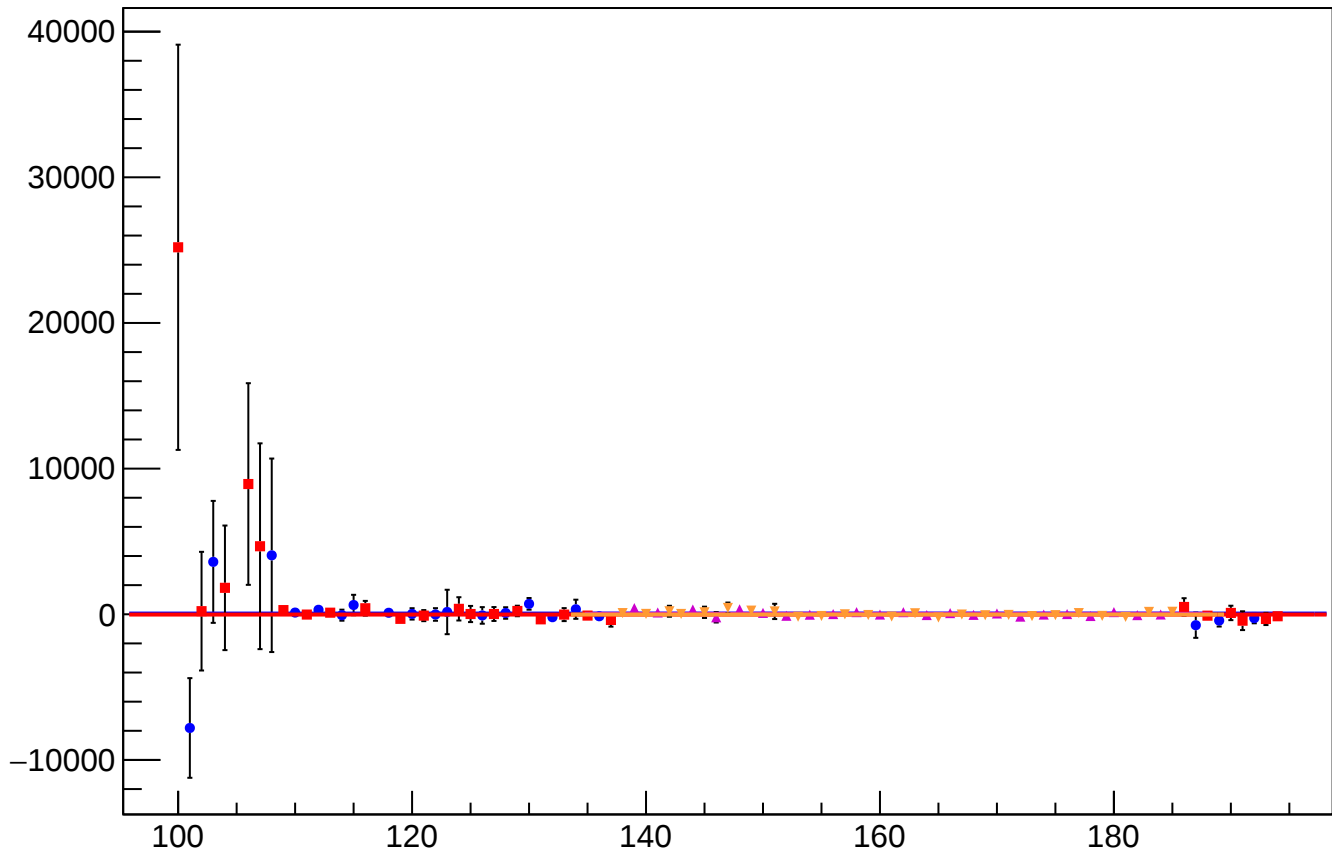
Right: 27.747+/-0.005 χ^2/NDF : 6533736.3/44

In: 28.490+/-0.004 χ^2/NDF : 3179021.8/42

Out: 28.457+/-0.004 χ^2/NDF : 3636099.2/49

All: 28.472+/-0.003 χ^2/NDF : 6815155.1/92

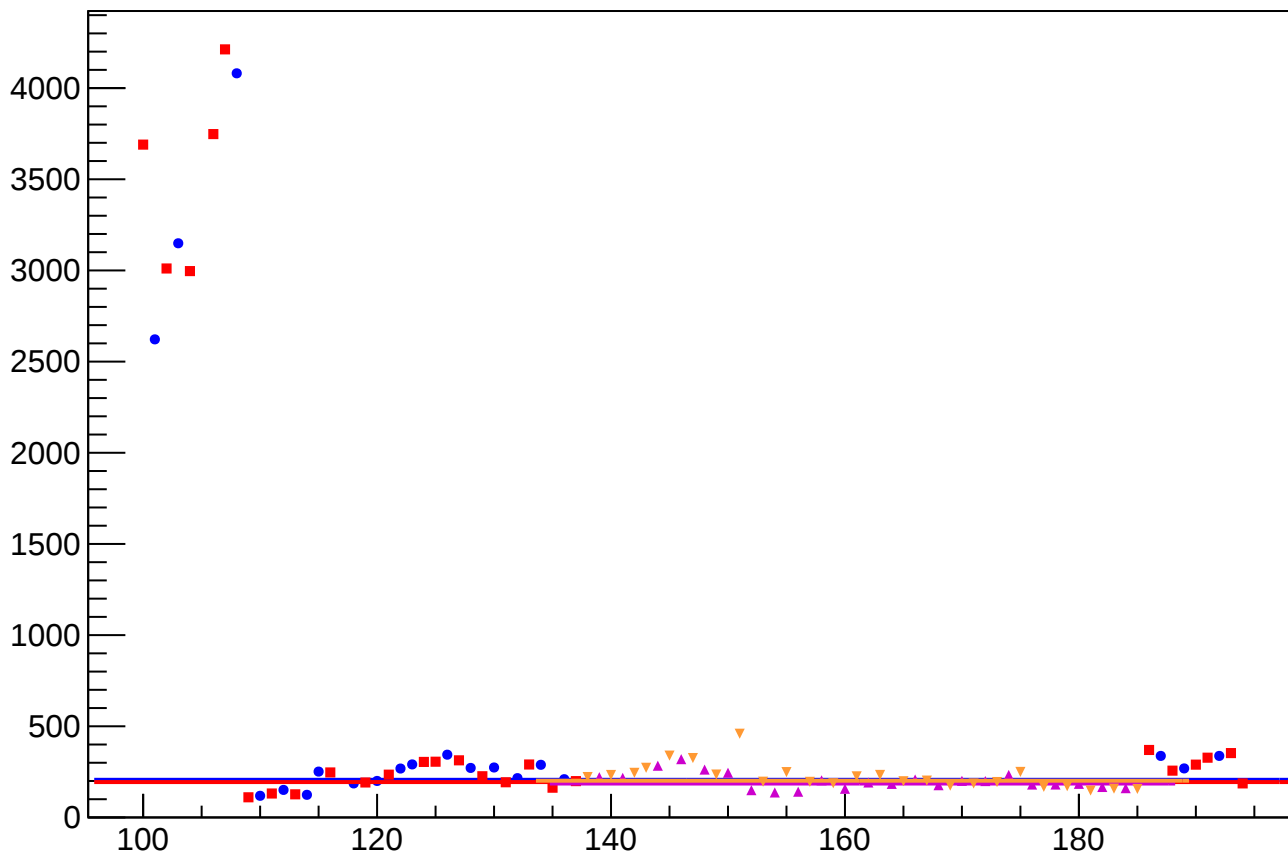
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.720+/-84.529 χ^2/NDF : 15.9/19
 Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24
 Right Out: -19.316+/-71.171 χ^2/NDF : 14.5/24
 Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47
 Right: 8.908+/-54.443 χ^2/NDF : 30.8/44
 In: 35.228+/-40.647 χ^2/NDF : 24.1/42
 Out: -16.749+/-40.185 χ^2/NDF : 22.5/49
 All: 8.942+/-28.577 χ^2/NDF : 47.4/92

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.426 $\pm$ 0.060 χ^2 /NDF: 3944478.6/19

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 194.082 $\pm$ 0.050 χ^2 /NDF: 4994643.5/24

Left In: 186.107 $\pm$ 0.033 χ^2 /NDF:1391327.2/22

Left: 193.474 $\pm$ 0.024 χ^2 /NDF: 3354998.7/47

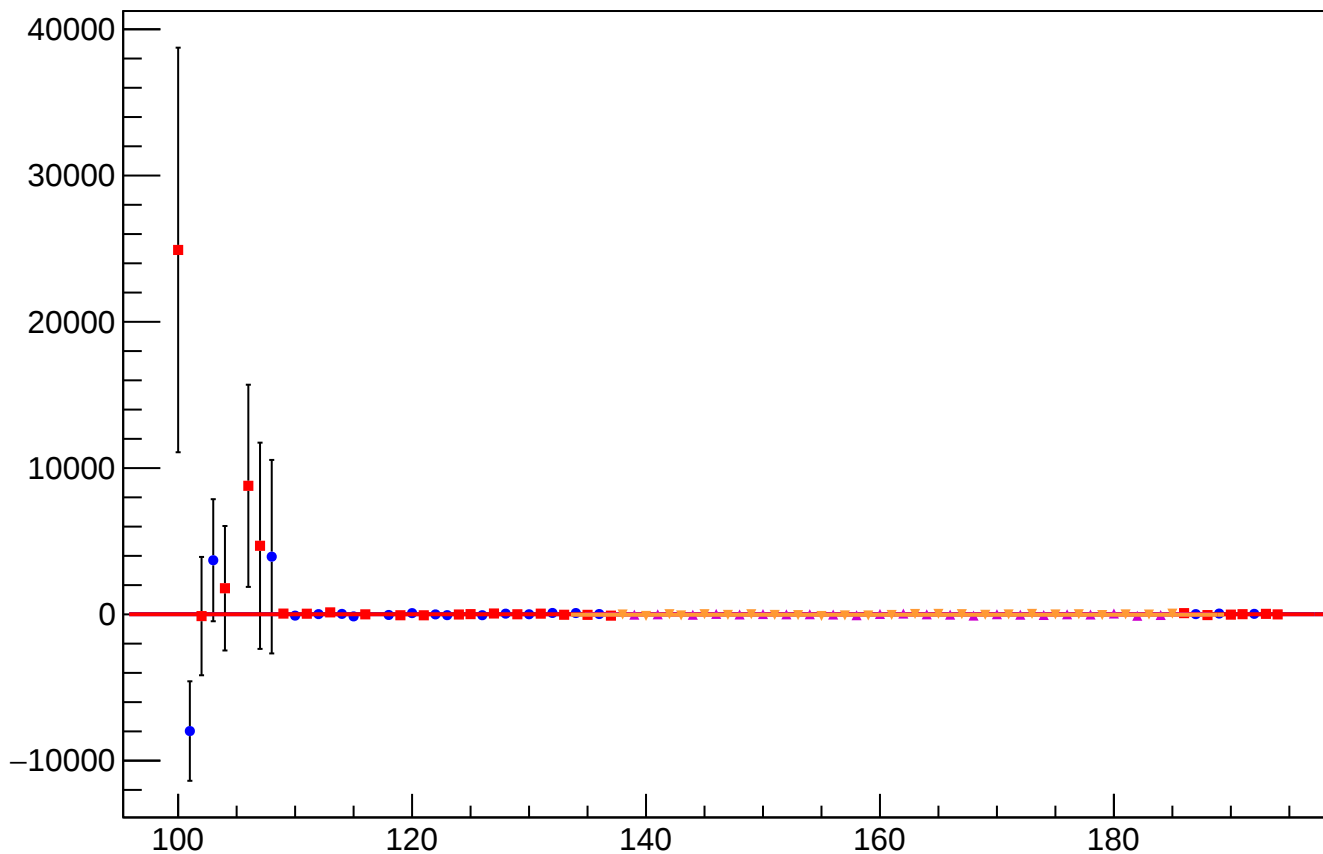
Right: 199.203 $\pm$ 0.038 χ^2 /NDF: 8964081.5/44

In: 190.805 $\pm$ 0.029 χ^2 /NDF:5424650.1/42

Out: 199.203 $\pm$ 0.028 χ^2 /NDF:6867299.6/49

All: 195.052 $\pm$ 0.020 χ^2 /NDF: 12335122.7/92

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.831+/-13.191 χ^2/NDF : 21.5/19

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 7.679+/-11.579 χ^2/NDF : 26.2/24

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

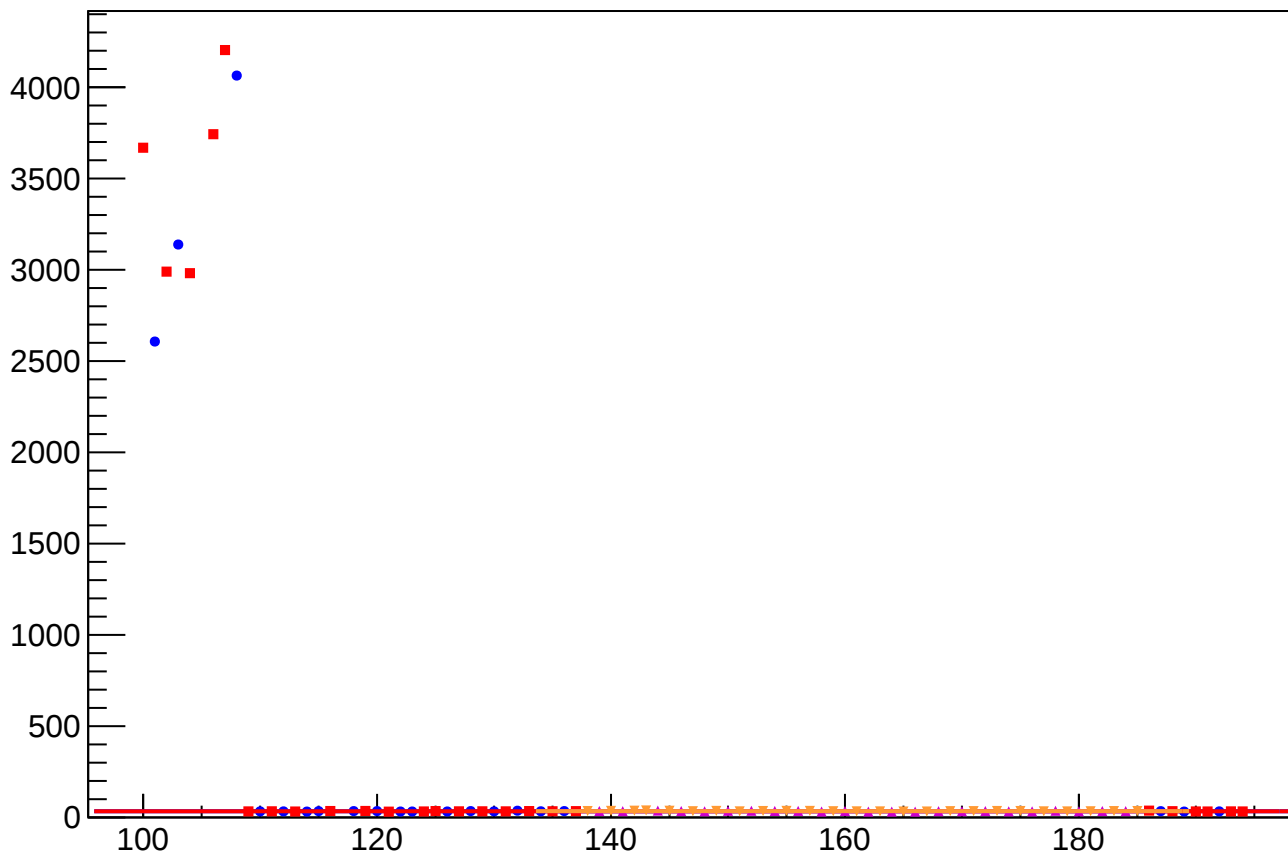
Right: 10.792+/-8.702 χ^2/NDF : 47.9/44

In: -0.084+/-7.030 χ^2/NDF : 44.5/42

Out: -13.221+/-6.618 χ^2/NDF : 56.9/49

All: -7.050+/-4.819 χ^2/NDF : 103.2/92

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.927 $\pm$ 0.009 χ^2 /NDF: 3010247.9/19

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.854 $\pm$ 0.008 χ^2 /NDF: 3462153.2/24

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

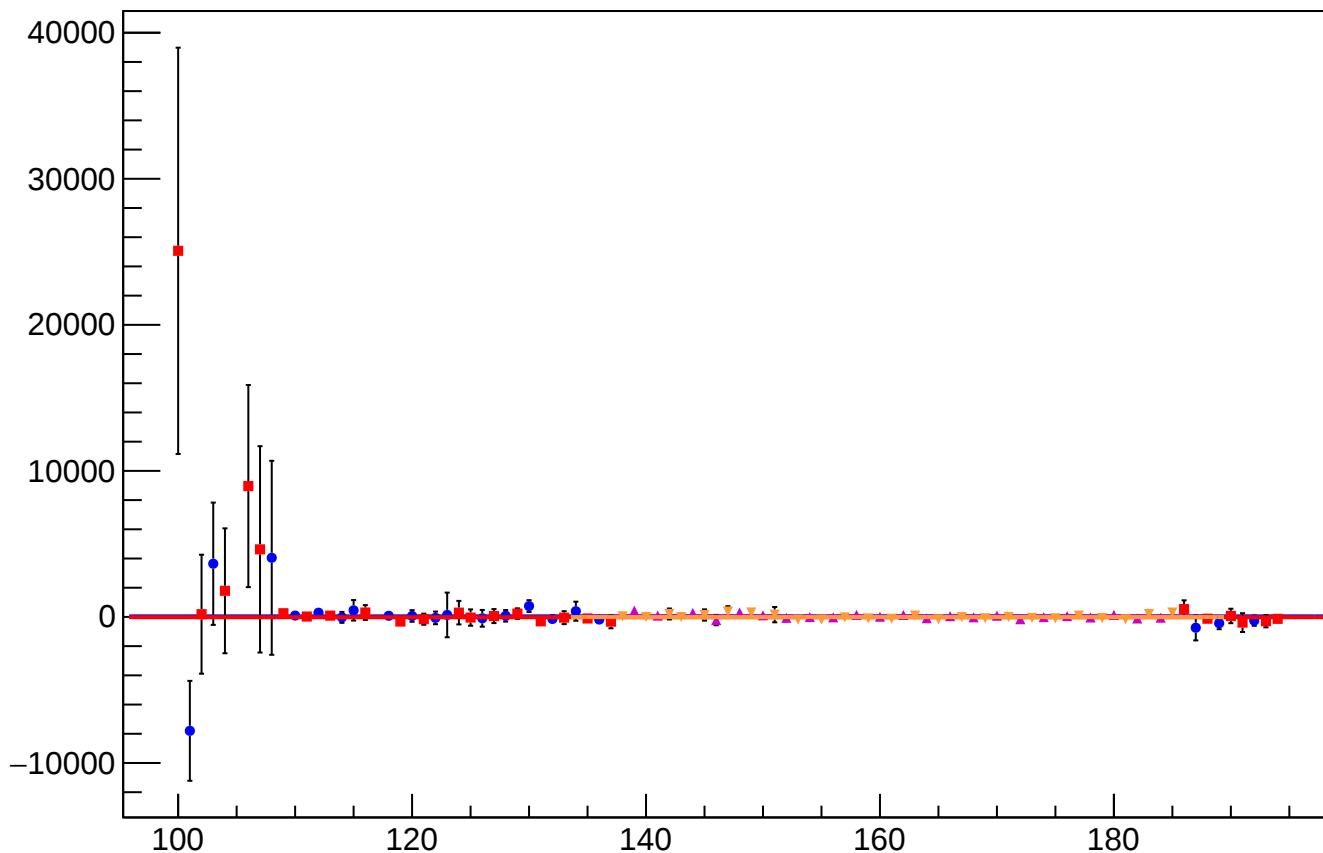
Right: 33.885 $\pm$ 0.006 χ^2 /NDF: 6472435.9/44

In: 34.470 $\pm$ 0.005 χ^2 /NDF: 3075294.1/42

Out: 34.366 $\pm$ 0.005 χ^2 /NDF: 3525913.5/49

All: 34.415 $\pm$ 0.003 χ^2 /NDF: 6601438.7/92

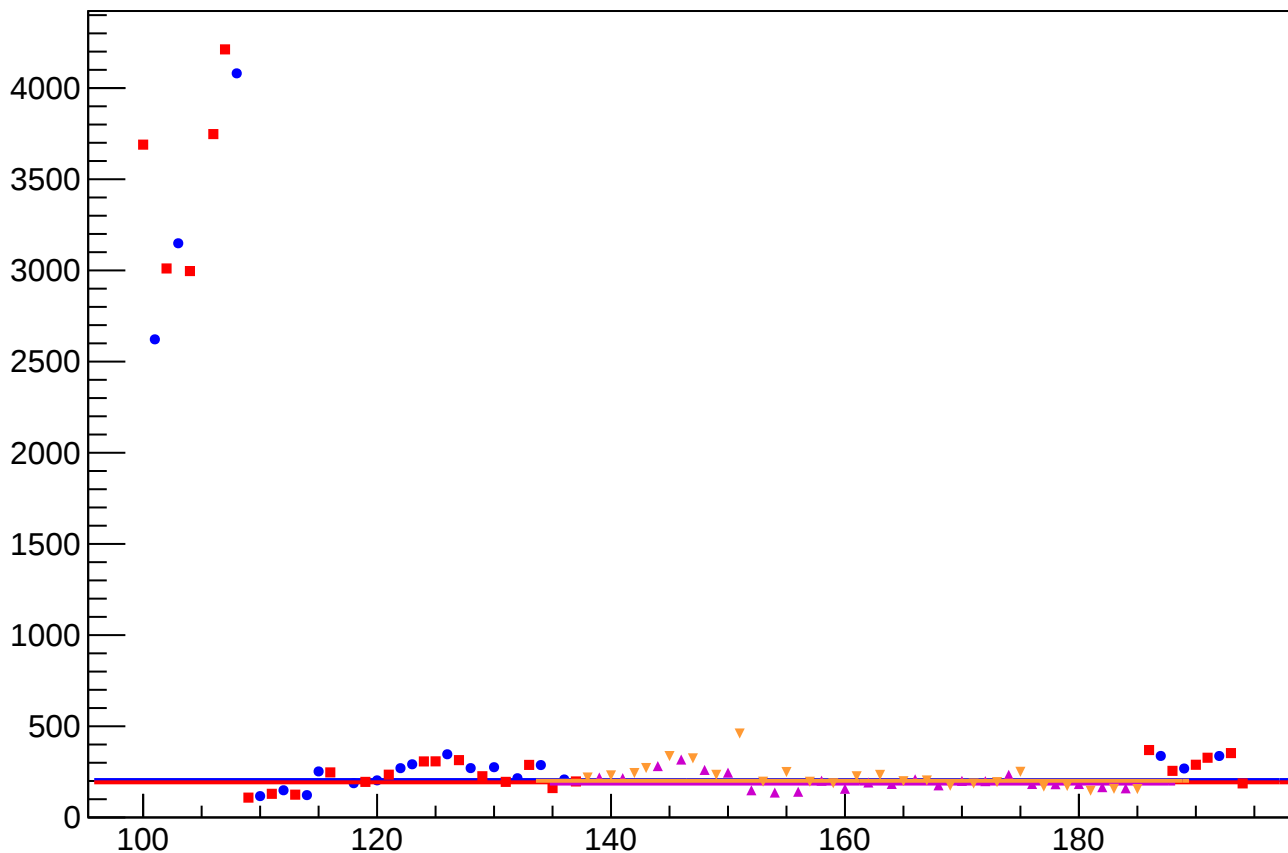
asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 38.540+/-84.133 χ^2/NDF : 15.6/19
 Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24
 Right Out: -21.468+/-70.805 χ^2/NDF : 13.2/24
 Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47
 Right: 3.412+/-54.174 χ^2/NDF : 29.1/44
 In: 35.153+/-40.561 χ^2/NDF : 23.0/42
 Out: -12.938+/-40.078 χ^2/NDF : 21.9/49
 All: 10.819+/-28.508 χ^2/NDF : 45.6/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.105 $\pm$ 0.059 χ^2 /NDF: 3989373.5/19

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 192.687 $\pm$ 0.050 χ^2 /NDF: 5054641.8/24

Left In: 185.854 $\pm$ 0.033 χ^2 /NDF:1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2 /NDF: 3338733.9/47

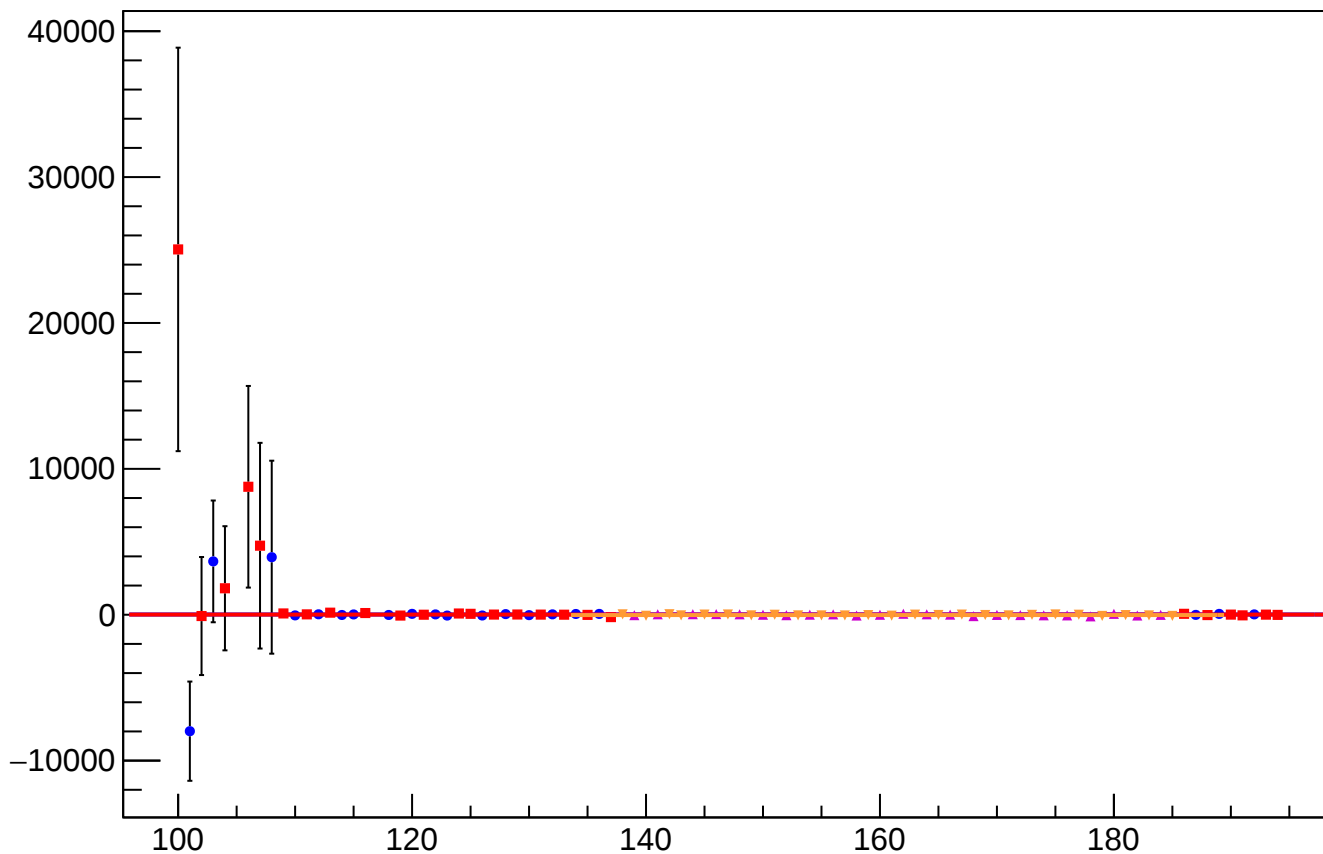
Right: 197.836 $\pm$ 0.038 χ^2 /NDF: 9069521.3/44

In: 190.328 $\pm$ 0.029 χ^2 /NDF:5451525.3/42

Out: 198.538 $\pm$ 0.028 χ^2 /NDF:6925869.7/49

All: 194.482 $\pm$ 0.020 χ^2 /NDF: 12418854.8/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 16.844+/-11.969 χ^2/NDF : 15.7/19

Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24

Right Out: 11.229+/-10.510 χ^2/NDF : 31.8/24

Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

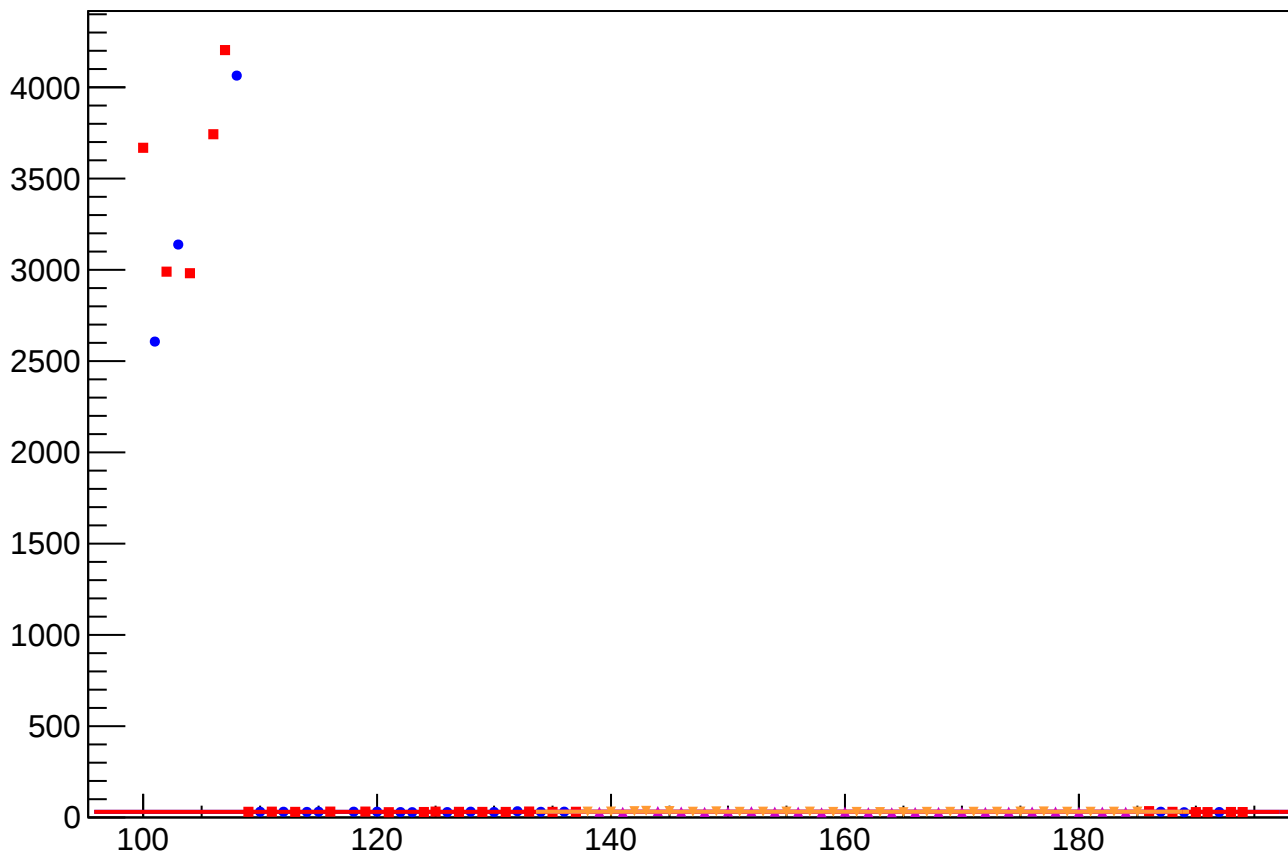
Right: 13.674+/-7.897 χ^2/NDF : 47.6/44

In: 0.543+/-6.385 χ^2/NDF :56.6/42

Out: -11.697+/-6.018 χ^2/NDF :57.7/49

All: -5.939+/-4.379 χ^2/NDF : 116.2/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.774 $\pm$ 0.008 χ^2 /NDF: 3023256.9/19

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.698 $\pm$ 0.007 χ^2 /NDF: 3475550.5/24

Left In: 31.484 $\pm$ 0.005 χ^2 /NDF:87981.1/22

Left: 31.483 $\pm$ 0.004 χ^2 /NDF: 170418.5/47

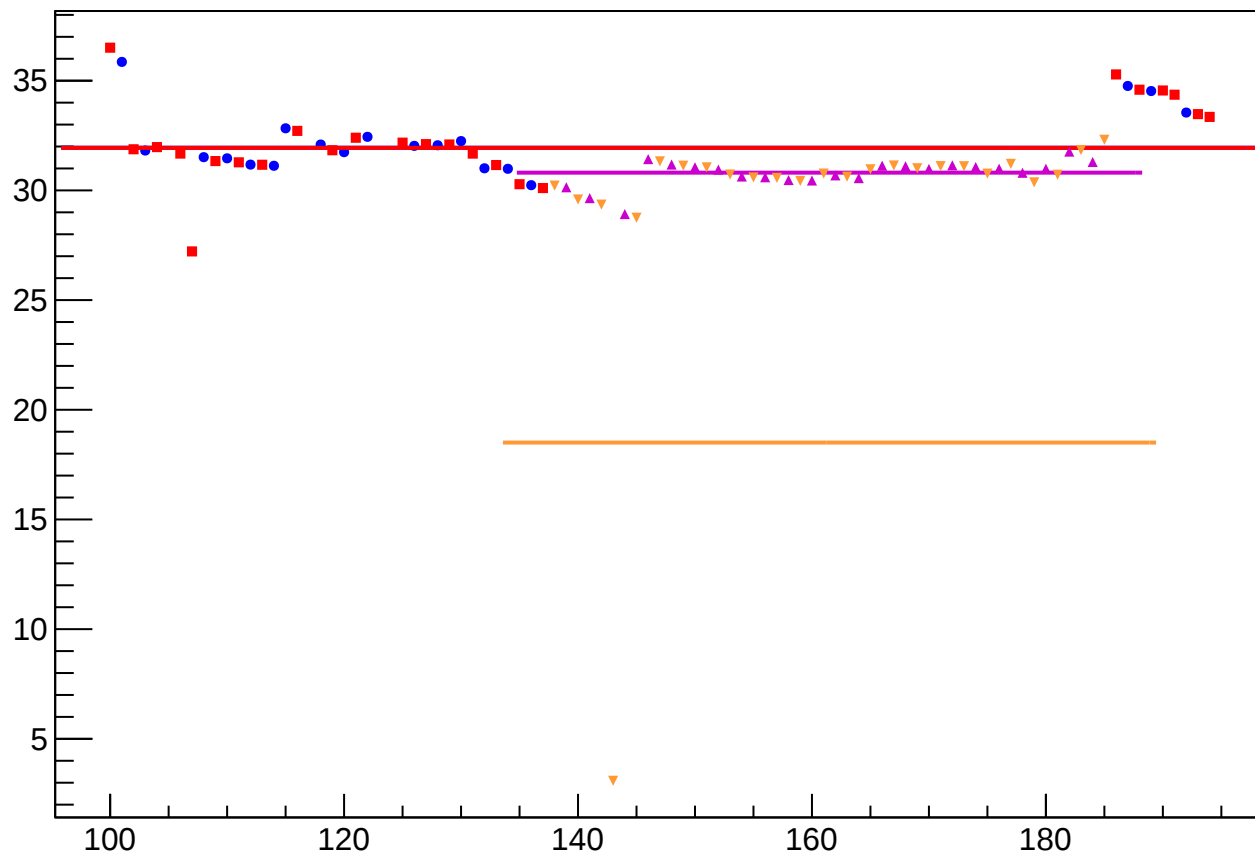
Right: 30.731 $\pm$ 0.006 χ^2 /NDF: 6498852.9/44

In: 31.282 $\pm$ 0.005 χ^2 /NDF:3116282.3/42

Out: 31.225 $\pm$ 0.004 χ^2 /NDF:3565467.2/49

All: 31.252 $\pm$ 0.003 χ^2 /NDF: 6681835.1/92

yield_usl_mean vs Slug, Sign Corrected



Right In: 31.946+/-0.000 χ^2/NDF : 1885984903.7/18

Left Out: 18.505+/-0.000 χ^2/NDF : 940607632746.3/24

Right Out: 31.939+/-0.000 χ^2/NDF : 1819225957.2/23

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 22.806+/-0.000 χ^2/NDF : 1203928236724.3/41

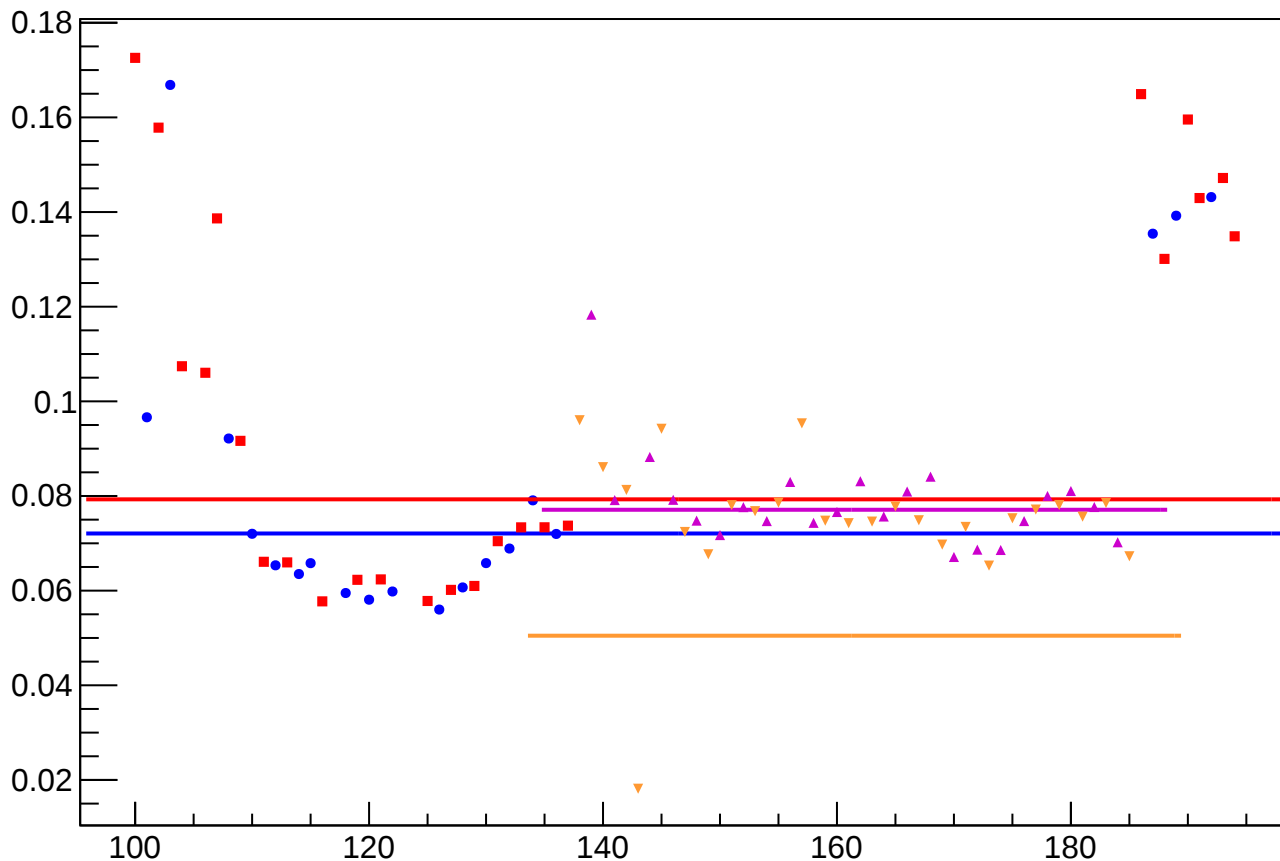
Right: 31.942+/-0.000 χ^2/NDF : 3705246687.2/42

In: 31.185+/-0.000 χ^2/NDF : 3846734094.2/41

Out: 21.389+/-0.000 χ^2/NDF : 1134576471691.0/48

All: 25.177+/-0.000 χ^2/NDF : 1372798098372

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.072 $\pm$ 0.000 χ^2 /NDF: 1369908.1/18

Left Out: 0.050 $\pm$ 0.000 χ^2 /NDF:8543648.6/24

Right Out: 0.079 $\pm$ 0.000 χ^2 /NDF: 2346558.8/23

Left In: 0.077 $\pm$ 0.000 χ^2 /NDF:325844.3/22

Left: 0.060 $\pm$ 0.000 χ^2 /NDF: 11325451.9/47

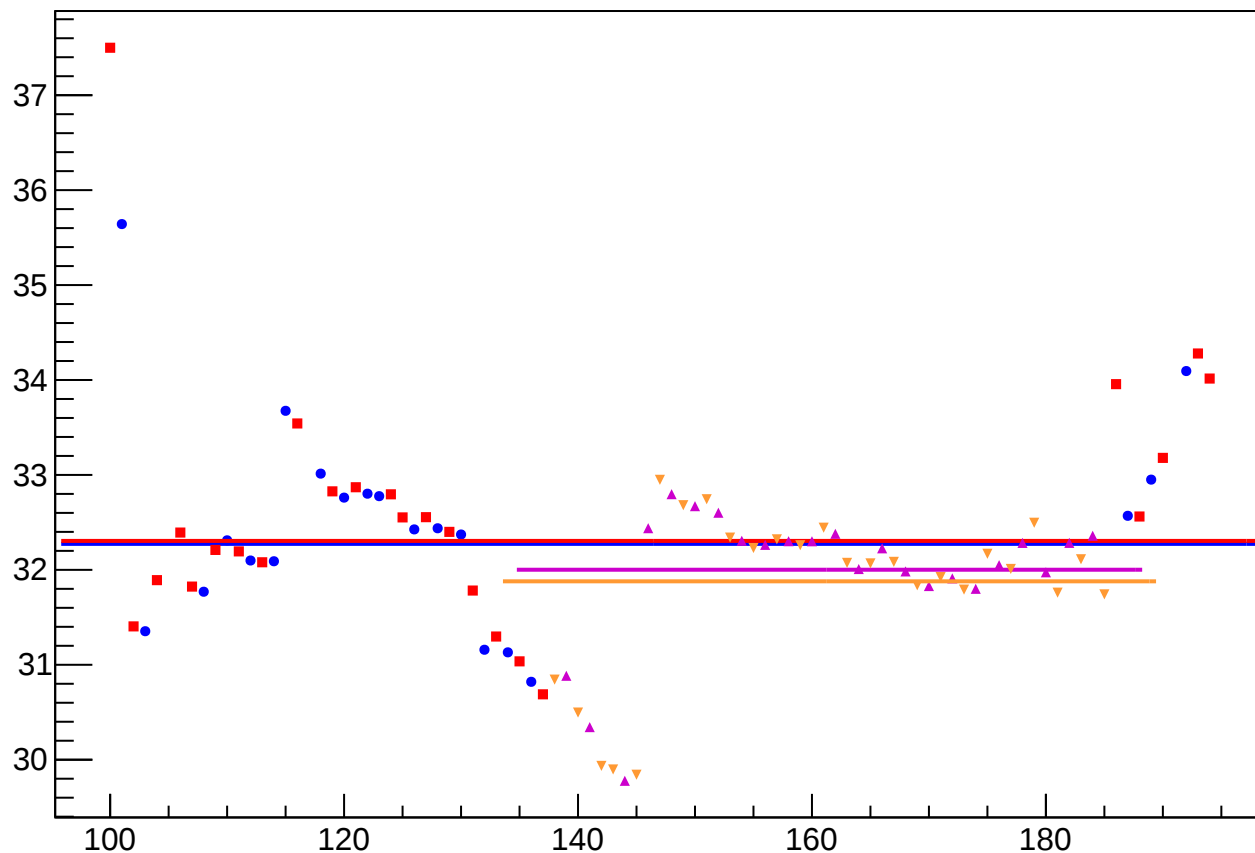
Right: 0.076 $\pm$ 0.000 χ^2 /NDF: 3786013.7/42

In: 0.075 $\pm$ 0.000 χ^2 /NDF:1740042.2/41

Out: 0.057 $\pm$ 0.000 χ^2 /NDF:12658369.2/48

All: 0.064 $\pm$ 0.000 χ^2 /NDF: 16119221.7/90

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.274+/-0.000 χ^2/NDF : 1103202748.0/19

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.305+/-0.000 χ^2/NDF : 648421435.7/23

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

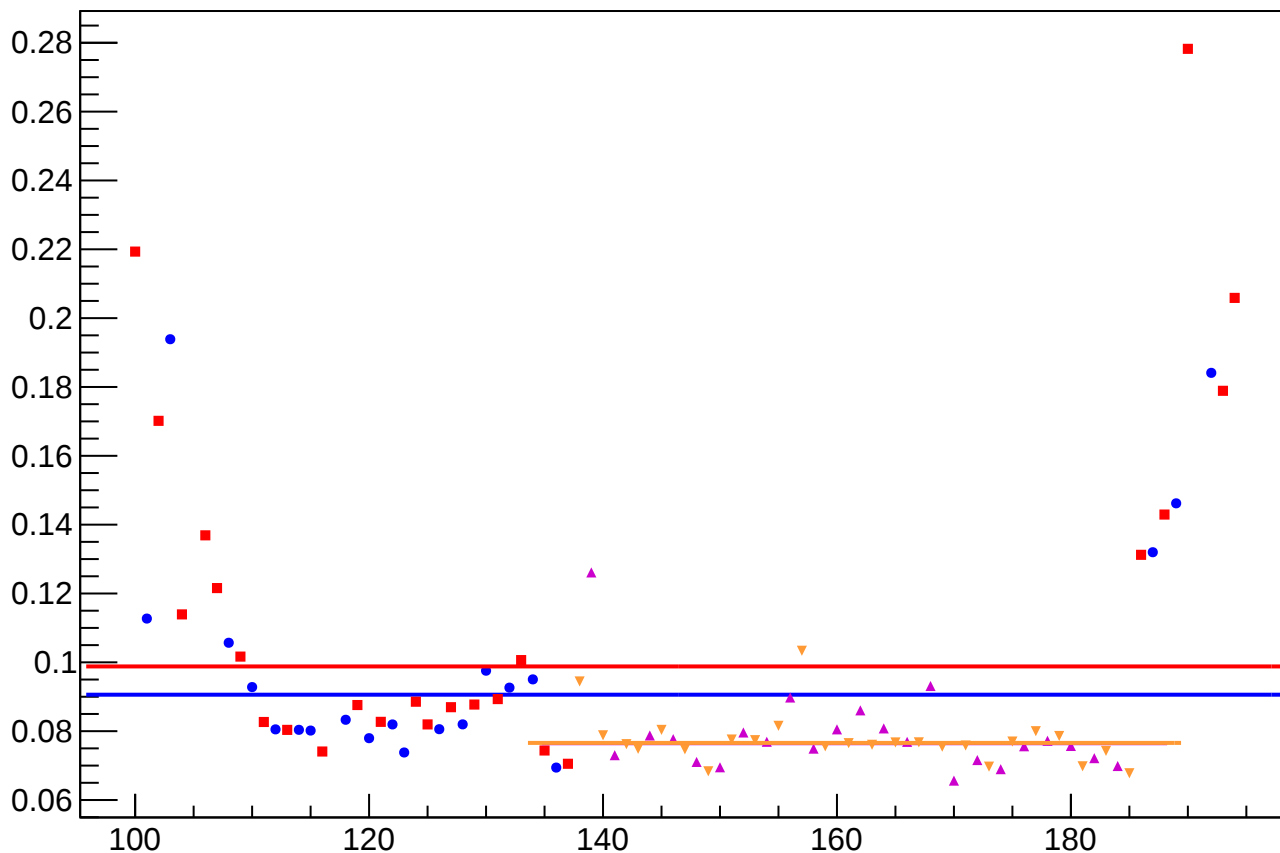
Right: 32.290+/-0.000 χ^2/NDF : 1752037794.1/43

In: 32.065+/-0.000 χ^2/NDF : 2561890306.5/42

Out: 31.978+/-0.000 χ^2/NDF : 2745877913.4/48

All: 32.021+/-0.000 χ^2/NDF : 5321575240.0/9

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.091+/-0.000 χ^2/NDF : 1186540.1/19

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.099+/-0.000 χ^2/NDF : 1886222.0/23

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

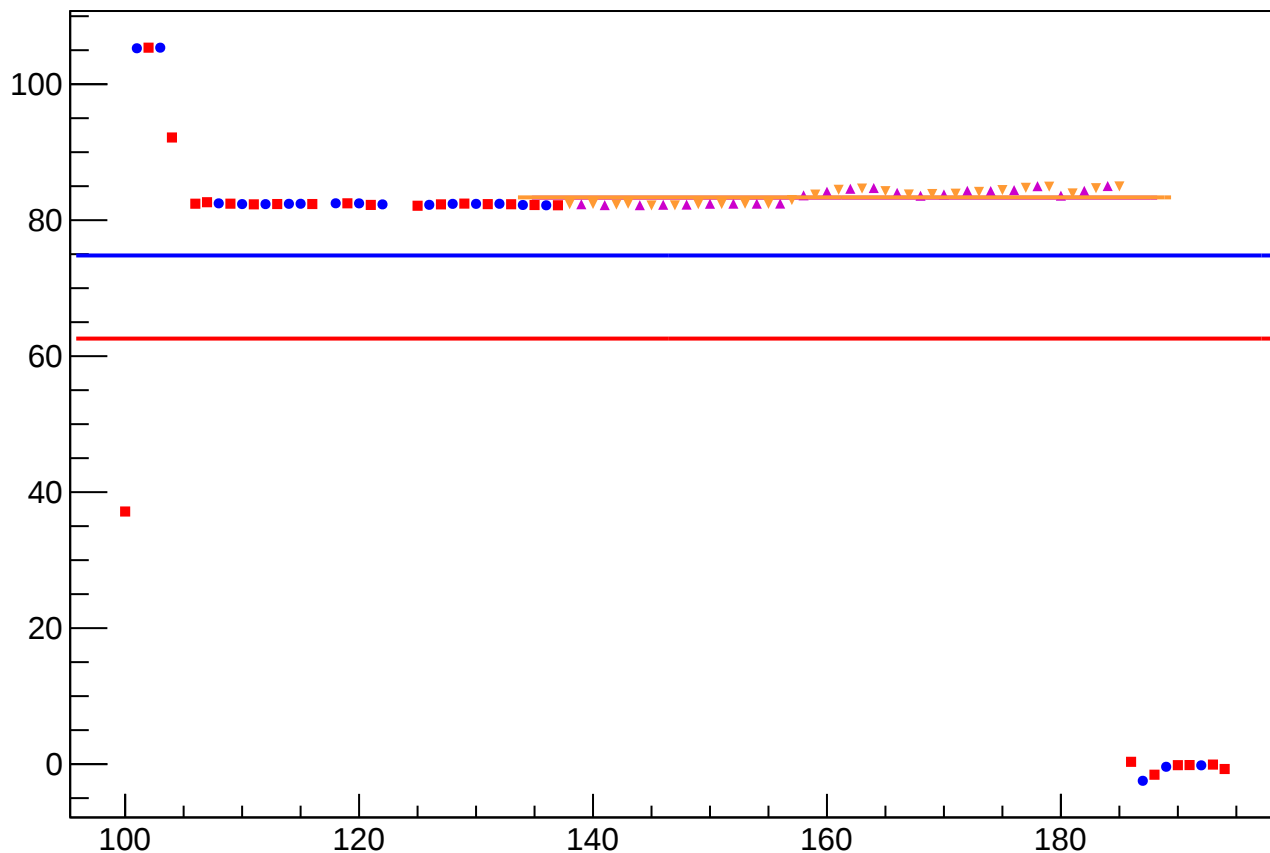
Right: 0.095+/-0.000 χ^2/NDF : 3130299.0/43

In: 0.080+/-0.000 χ^2/NDF : 1873946.8/42

Out: 0.082+/-0.000 χ^2/NDF : 2755985.8/48

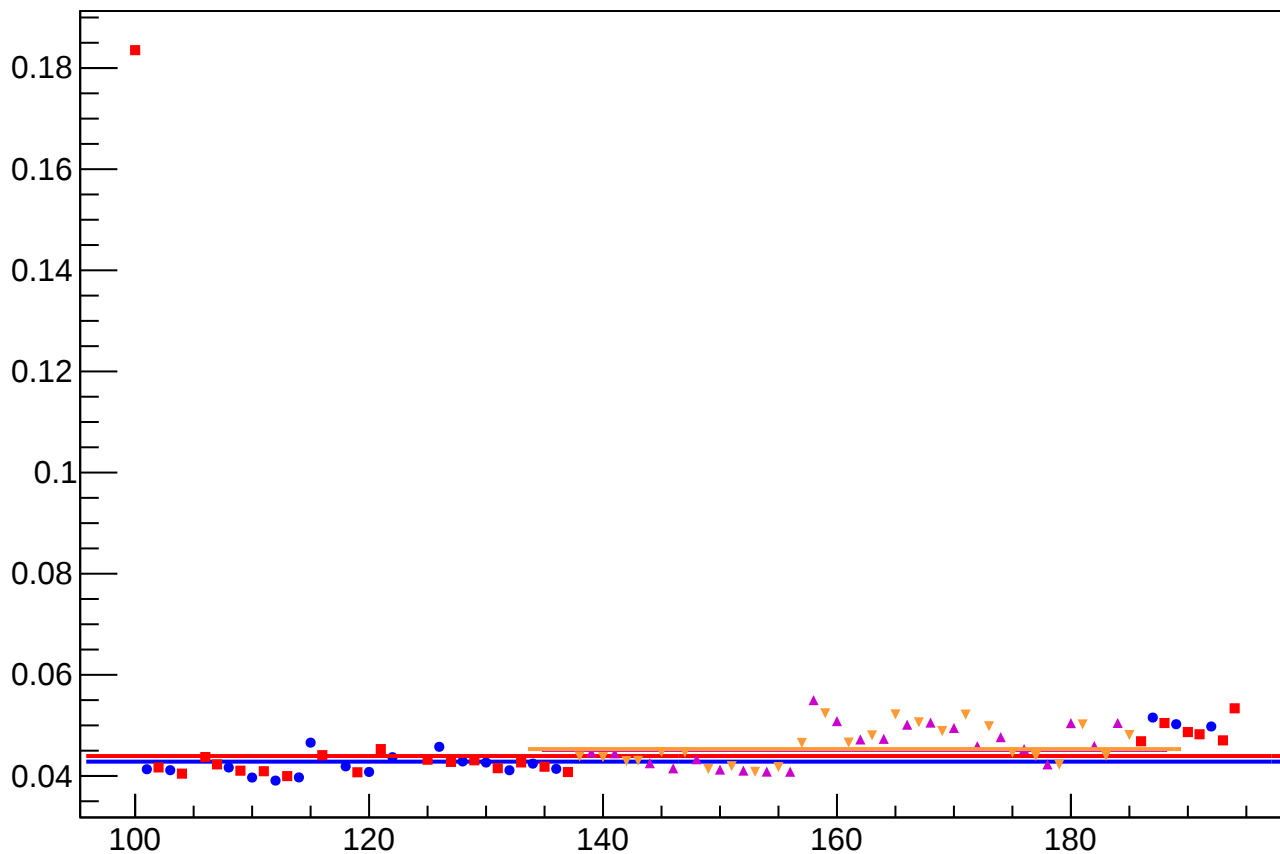
All: 0.081+/-0.000 χ^2/NDF : 4644083.0/91

yield_dsl_mean vs Slug, Sign Corrected



Right In: 74.809+/-0.000	χ^2/NDF : 4100685596044.2/18	Left: 83.332+/-0.000	χ^2/NDF : 17572666767.1/47
Left Out: 83.355+/-0.000	χ^2/NDF : 9142393022.8/24	Right: 68.107+/-0.000	χ^2/NDF : 12061047258169.0/18
Right Out: 62.586+/-0.000	χ^2/NDF : 7604748399391.1/23	In: 80.394+/-0.000	χ^2/NDF : 4315174257974.6/41
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 75.521+/-0.000	χ^2/NDF : 9029539757778.4/48
		All: 77.838+/-0.000	χ^2/NDF : 1350243978176.0/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.000 χ^2 /NDF: 90540.5/18

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:211358.2/24

Right Out: 0.044 $\pm$ 0.000 χ^2 /NDF: 227351.2/23

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:242885.4/22

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 454494.8/47

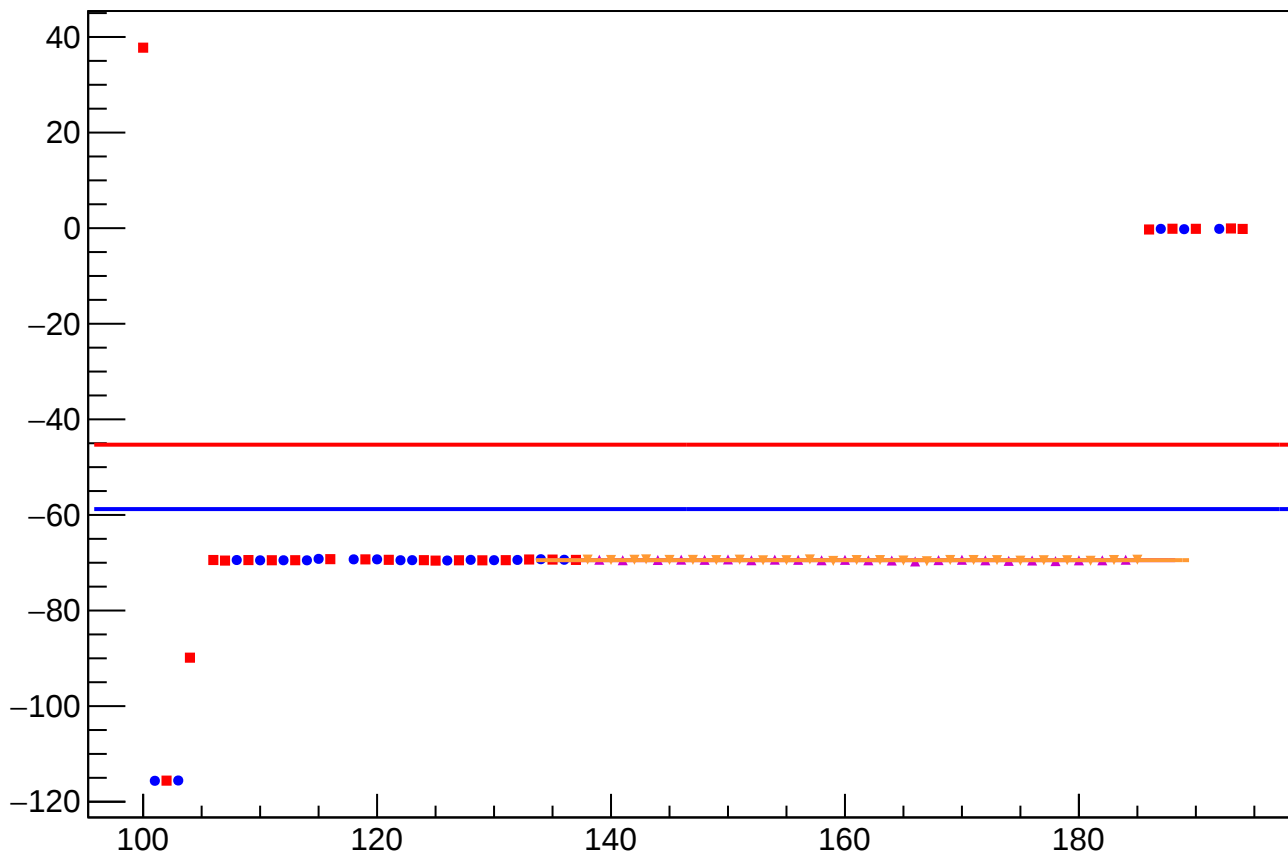
Right: 0.043 $\pm$ 0.000 χ^2 /NDF: 323746.7/42

In: 0.044 $\pm$ 0.000 χ^2 /NDF:363869.4/41

Out: 0.045 $\pm$ 0.000 χ^2 /NDF:451080.9/48

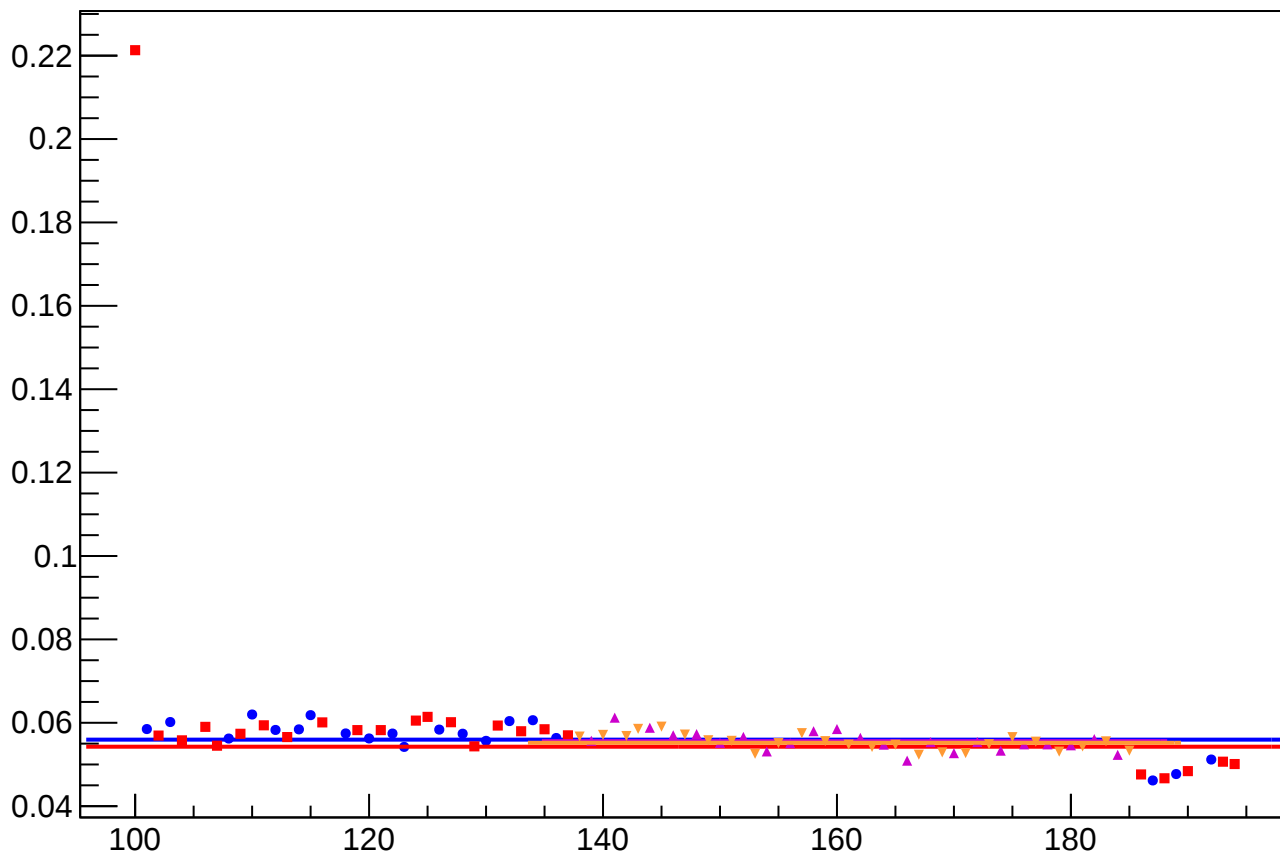
All: 0.045 $\pm$ 0.000 χ^2 /NDF: 817593.8/90

yield_dsr_mean vs Slug, Sign Corrected



Right In: -58.775+/-0.000	χ^2/NDF : 3255599874224.8/19	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -51.054+/-0.000	χ^2/NDF : 8329077182150.4/47
Right Out: -45.301+/-0.000	χ^2/NDF : 4812858269557.5/23	In: -66.094+/-0.000	χ^2/NDF : 3451508628956.6/42
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -60.625+/-0.000	χ^2/NDF : 6057574176956.0/47
		All: -63.162+/-0.000	χ^2/NDF : 963662673367.5/100

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.056+/-0.000 χ^2/NDF : 82095.4/19

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.054+/-0.000 χ^2/NDF : 230224.1/23

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

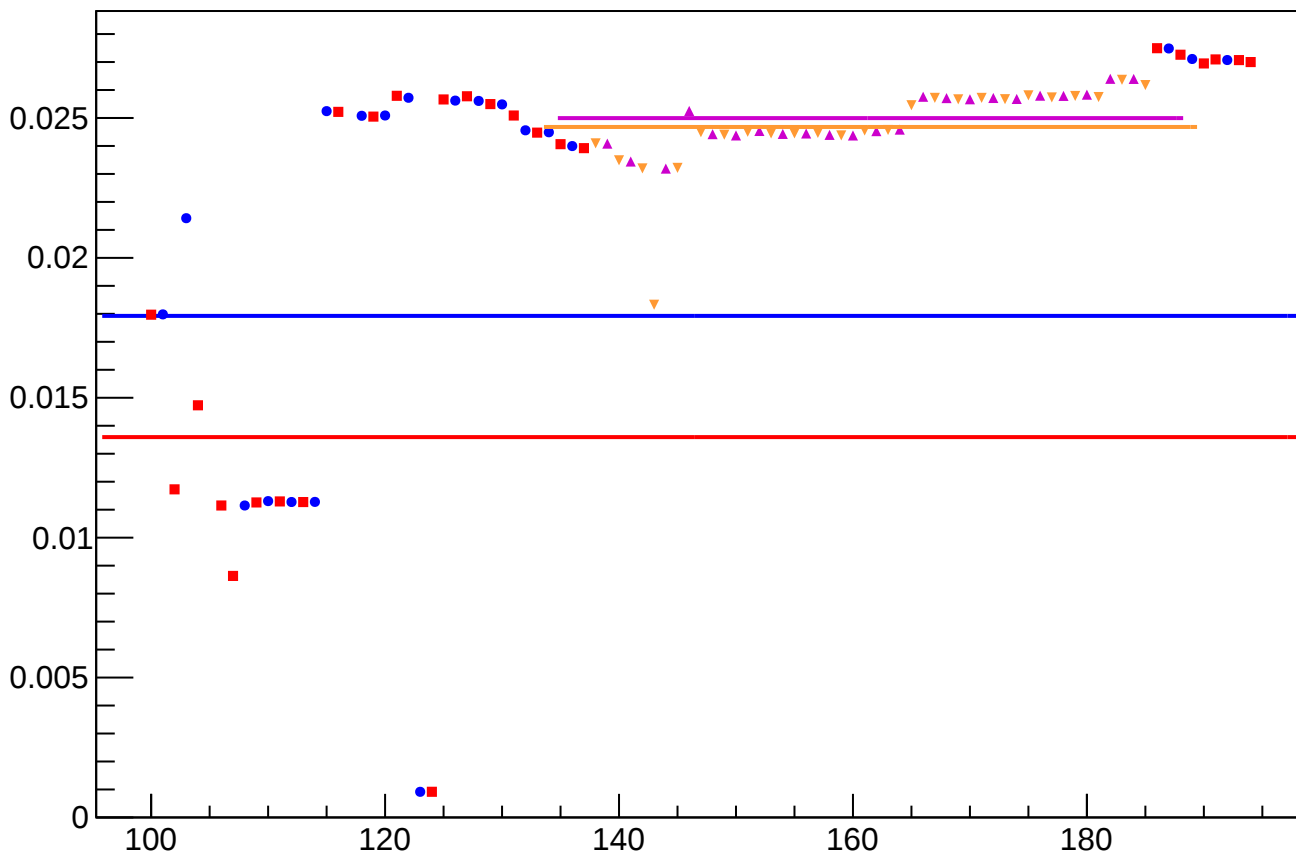
Right: 0.055+/-0.000 χ^2/NDF : 320564.3/43

In: 0.056+/-0.000 χ^2/NDF : 134742.5/42

Out: 0.055+/-0.000 χ^2/NDF : 272799.3/48

All: 0.055+/-0.000 χ^2/NDF : 413632.0/91

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000

χ^2/NDF : 143512170729.8/19

Left: 0.025 $\pm$ 0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025 $\pm$ 0.000

χ^2/NDF : 9641065555.8/24

Right: 0.015 $\pm$ 0.000

χ^2/NDF : 484966766012.2/44

Right Out: 0.014 $\pm$ 0.000

χ^2/NDF : 320467114903.7/24

In: 0.023 $\pm$ 0.000

χ^2/NDF : 206836451164.9/42

Out: 0.020 $\pm$ 0.000

χ^2/NDF : 526326250471.9/49

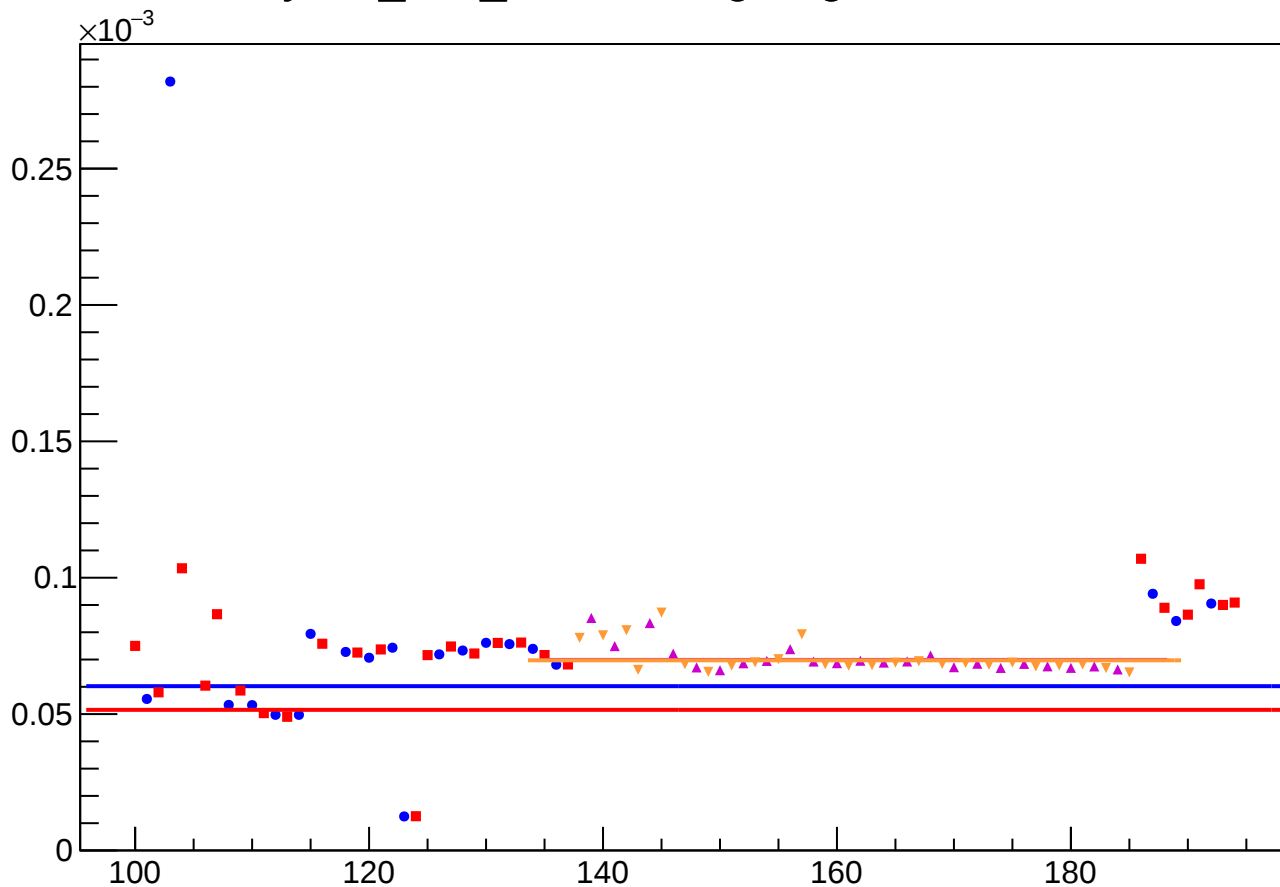
Left In: 0.025 $\pm$ 0.000

χ^2/NDF : 2462473687.7/22

All: 0.021 $\pm$ 0.000

χ^2/NDF : 753578334572.2

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2339953.9/19

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 5120077.4/24

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

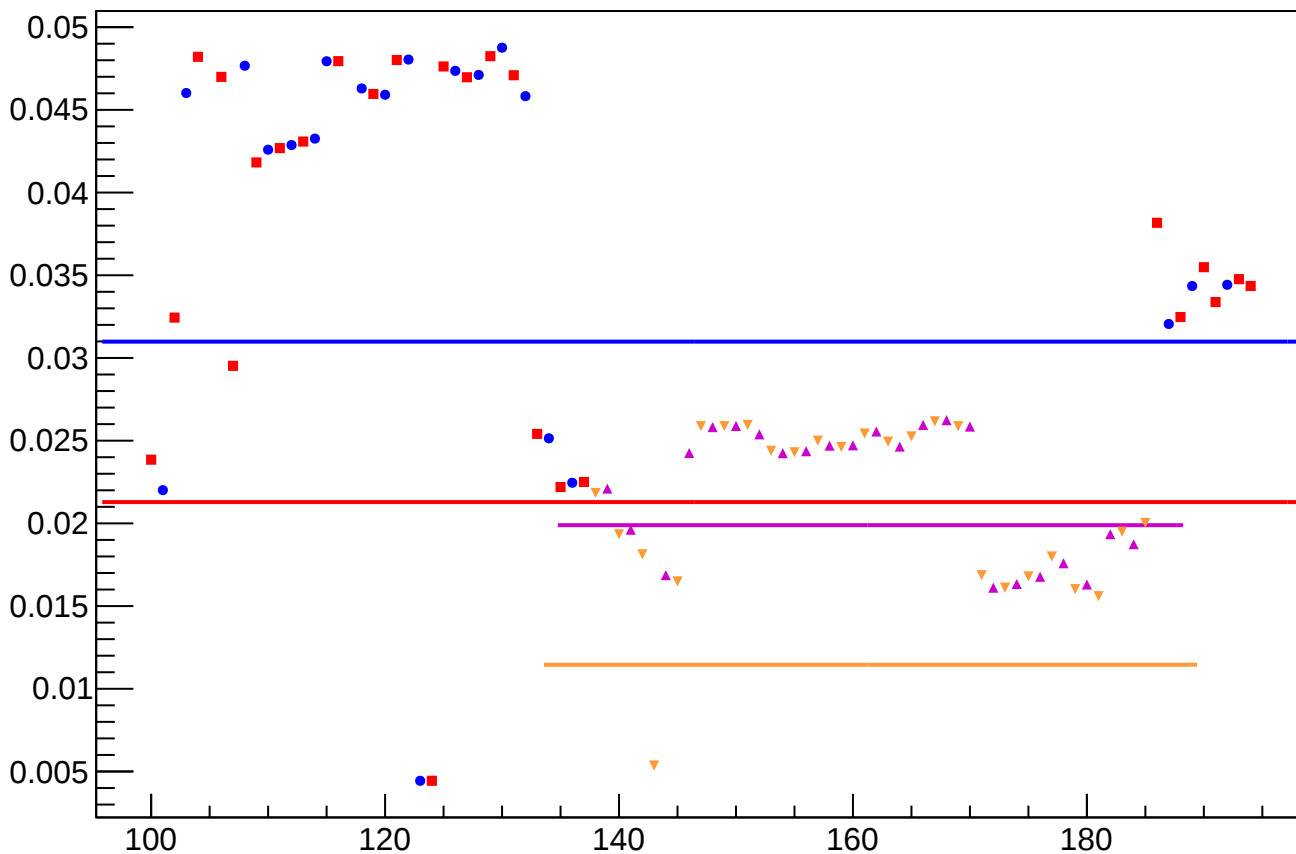
Right: 0.000+/-0.000 χ^2/NDF : 7628311.4/44

In: 0.000+/-0.000 χ^2/NDF :2694894.0/42

Out: 0.000+/-0.000 χ^2/NDF :6331182.1/49

All: 0.000+/-0.000 χ^2/NDF : 9151384.7/92

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21151719955.5/19

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.025+/-0.000

χ^2/NDF : 67659327489.2/44

Right Out: 0.021+/-0.000

χ^2/NDF : 41967168088.8/24

In: 0.022+/-0.000

χ^2/NDF : 33108768658.0/42

Out: 0.013+/-0.000

χ^2/NDF : 92862305539.5/49

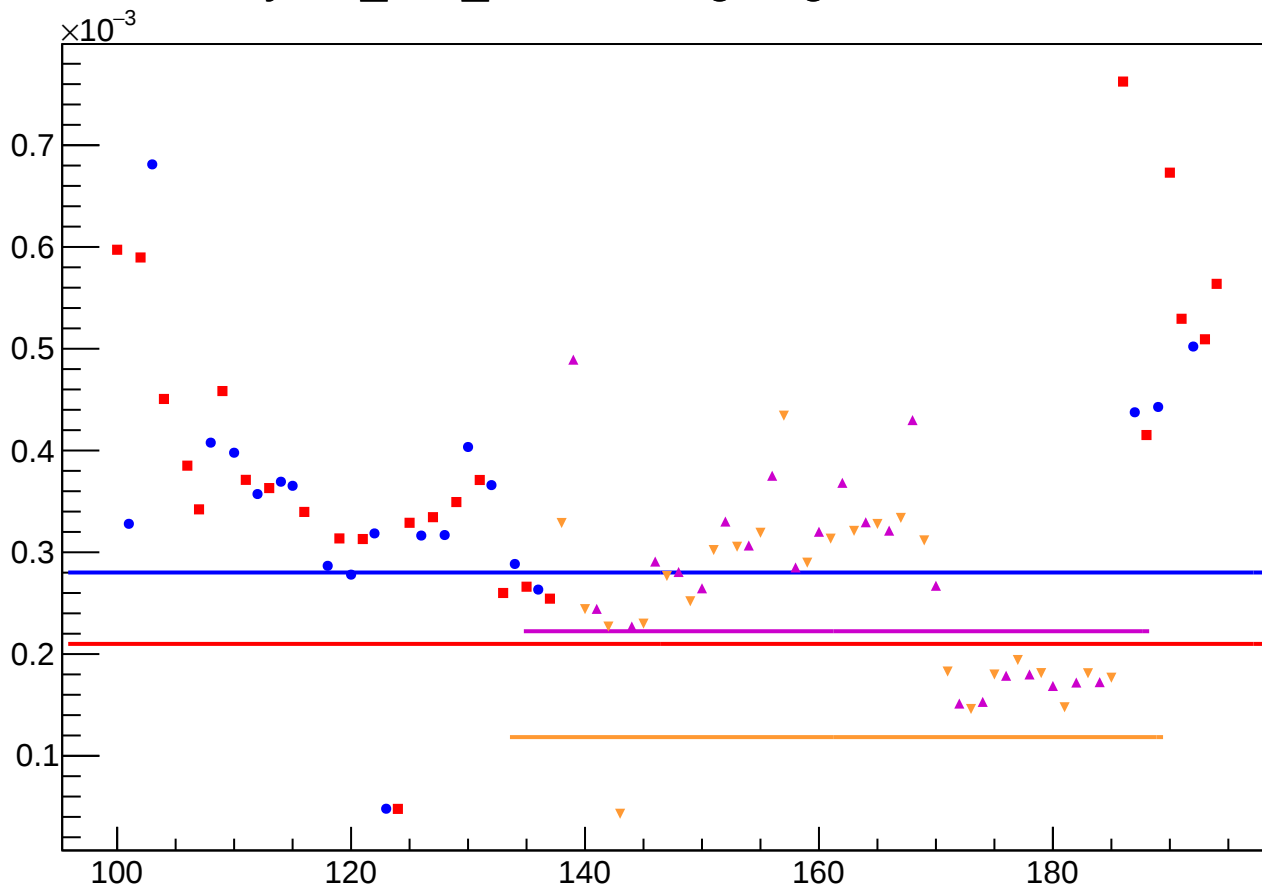
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 147923219972.3

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2924030.4/19

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7992232.2/24

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

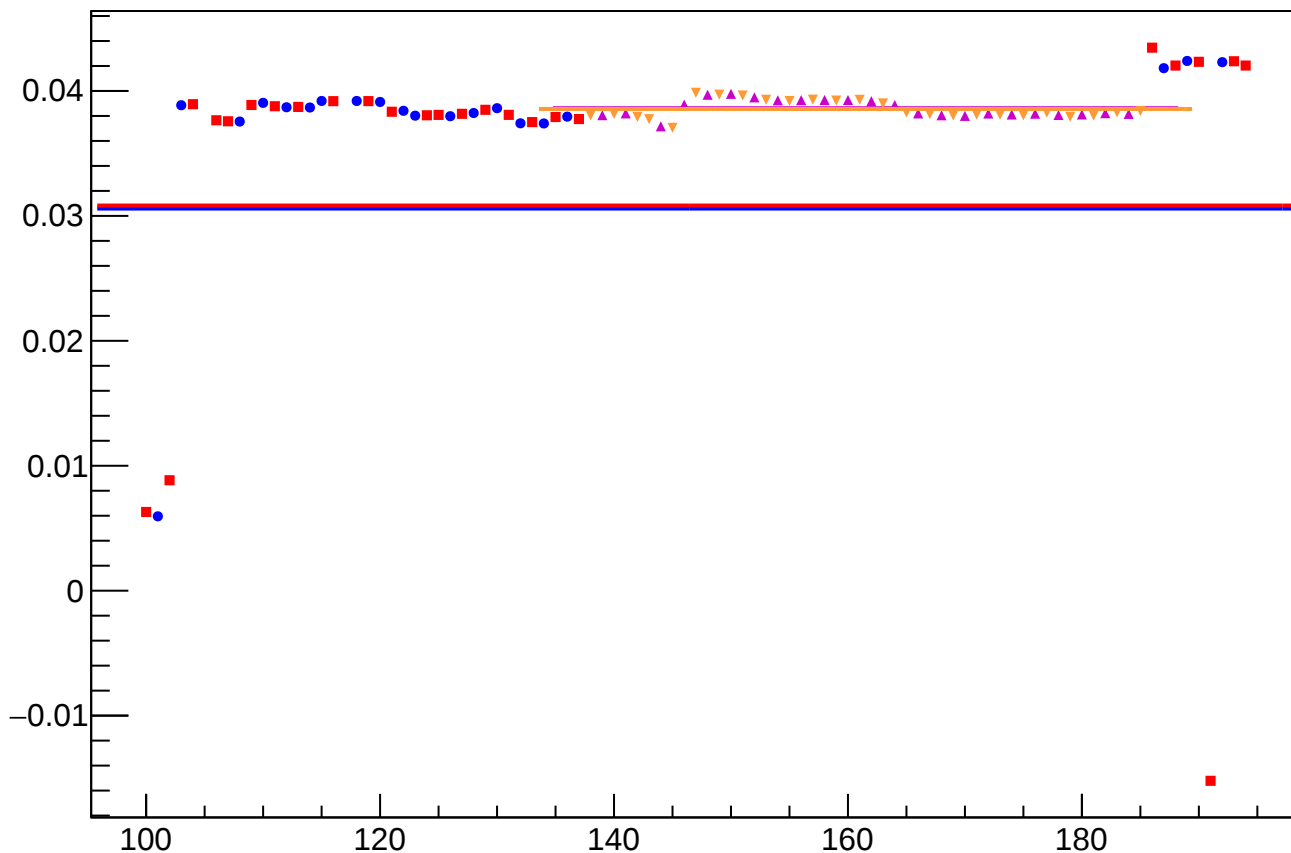
Right: 0.000+/-0.000 χ^2/NDF : 11391230.8/44

In: 0.000+/-0.000 χ^2/NDF :6610748.2/42

Out: 0.000+/-0.000 χ^2/NDF :23394460.3/49

All: 0.000+/-0.000 χ^2/NDF : 35354847.2/92

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 101682898541.8/19

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right Out: 0.031+/-0.000

χ^2/NDF : 170271297283.2/24

Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Right: 0.031+/-0.000

χ^2/NDF : 271969463164.5/44

In: 0.036+/-0.000

χ^2/NDF : 123886350915.4/42

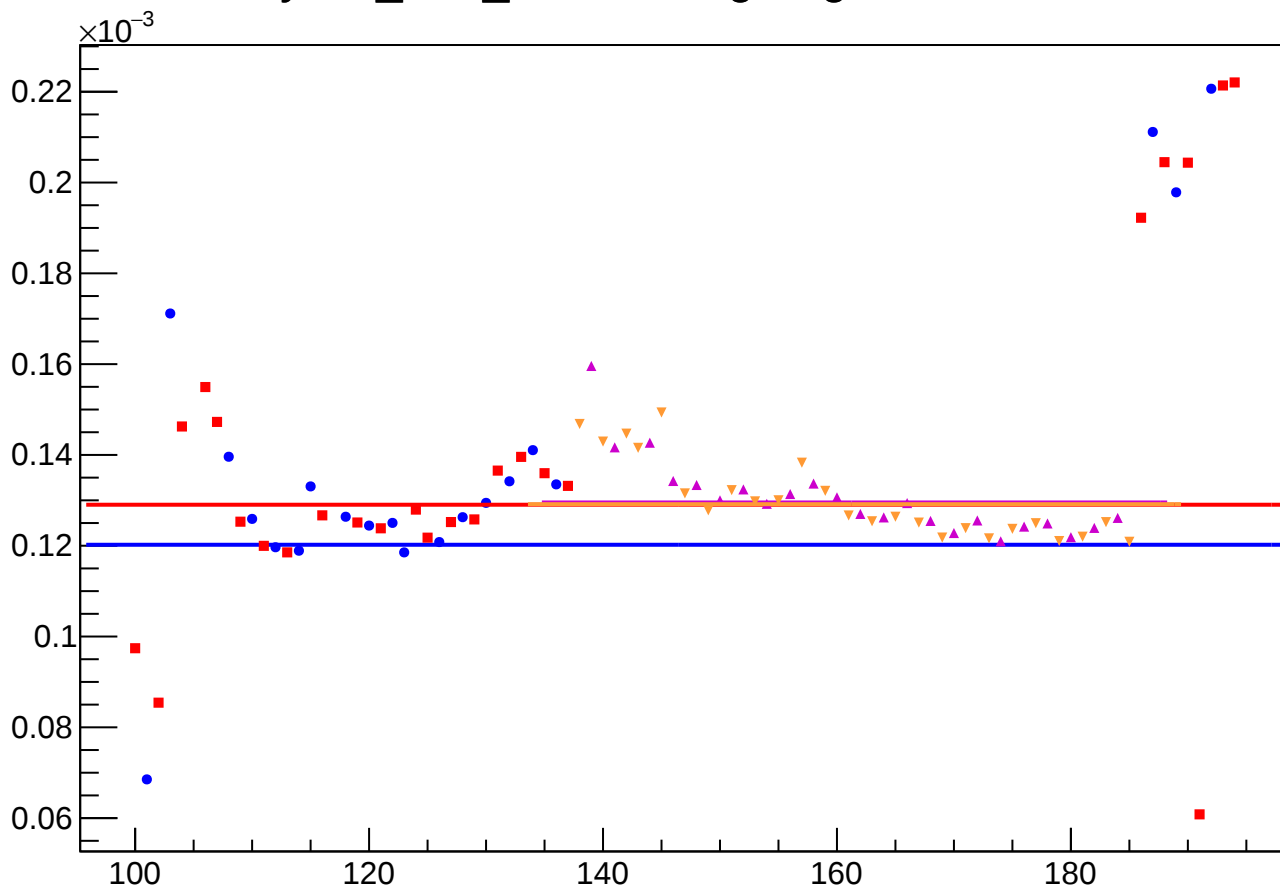
Out: 0.036+/-0.000

χ^2/NDF : 192711942171.8/49

All: 0.036+/-0.000

χ^2/NDF : 316598682893.3

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1386172.1/19

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 1709135.9/24

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

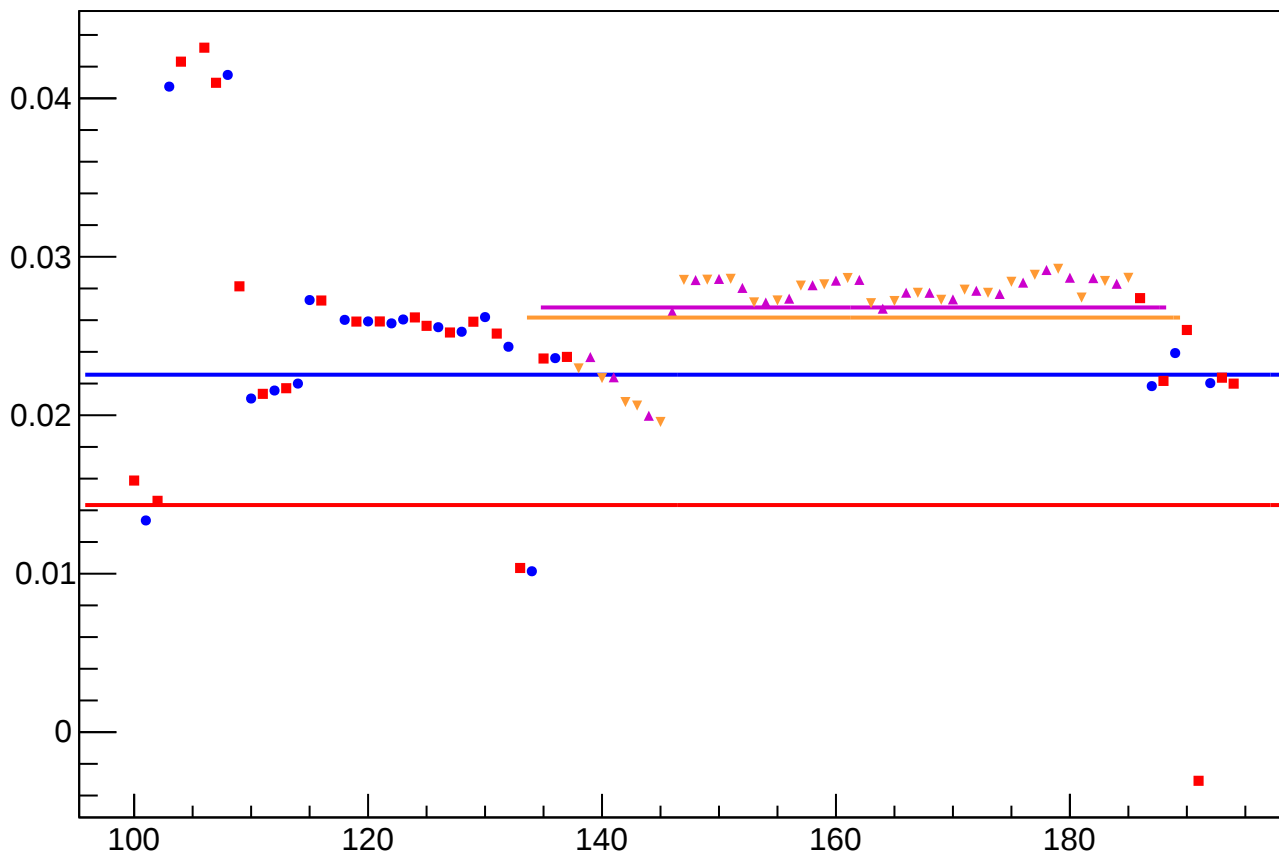
Right: 0.000+/-0.000 χ^2/NDF : 3136369.6/44

In: 0.000+/-0.000 χ^2/NDF :1559441.1/42

Out: 0.000+/-0.000 χ^2/NDF :1839467.9/49

All: 0.000+/-0.000 χ^2/NDF : 3410112.8/92

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4243800014.7/19

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.014+/-0.000 χ^2/NDF : 30521324011.0/24

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

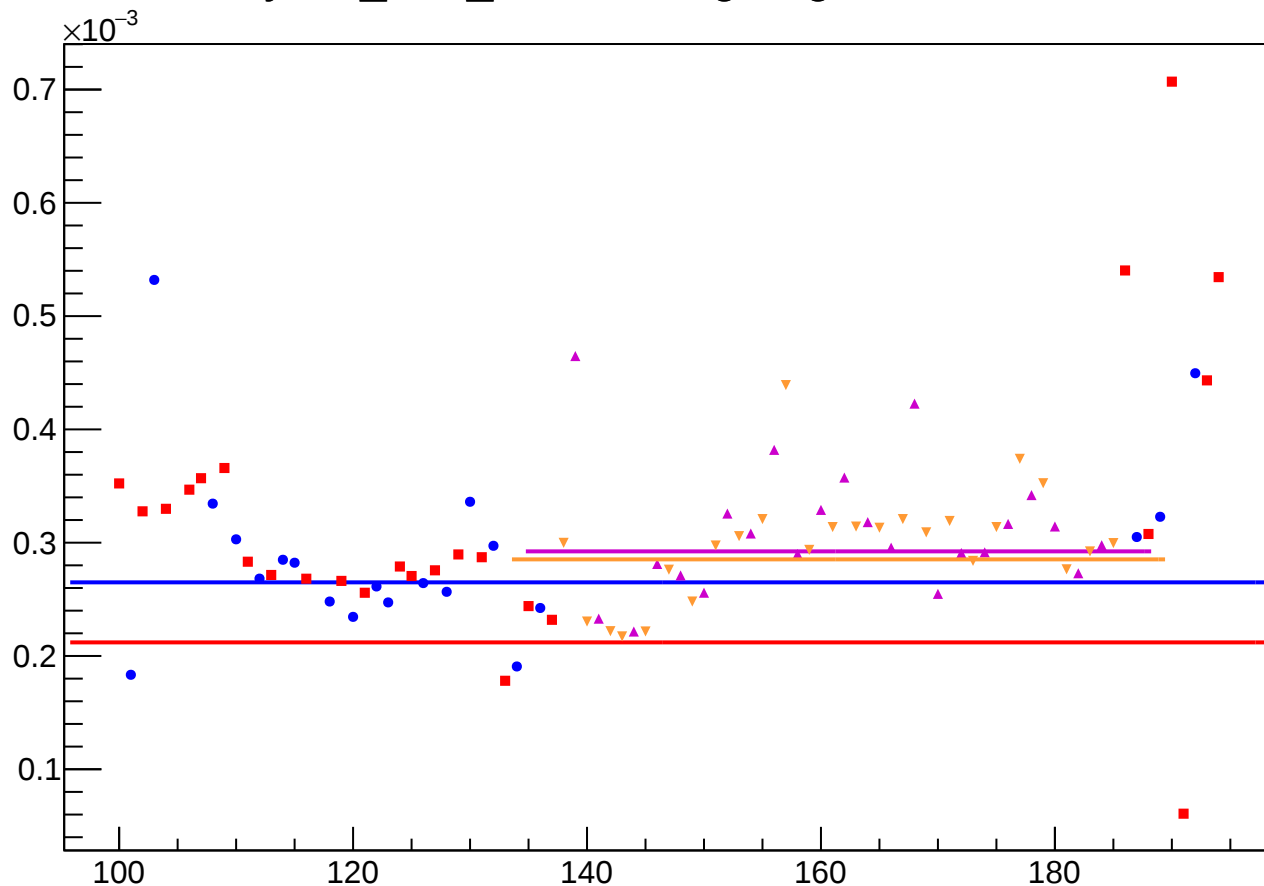
Right: 0.018+/-0.000 χ^2/NDF : 38858018087.0/44

In: 0.025+/-0.000 χ^2/NDF : 6737139918.6/42

Out: 0.021+/-0.000 χ^2/NDF : 44853810068.3/49

All: 0.023+/-0.000 χ^2/NDF : 54523406446.4/95

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 979397.4/19

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 5168967.9/24

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

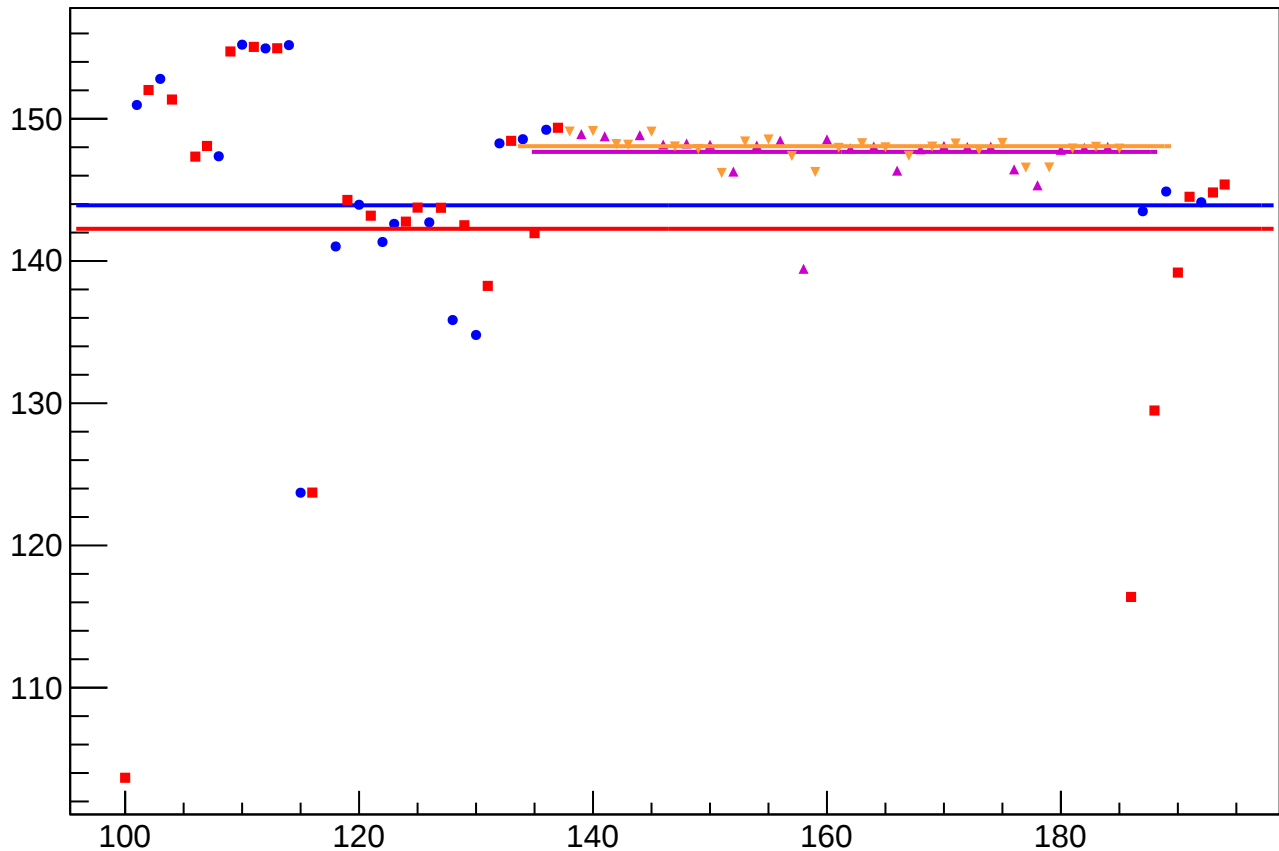
Right: 0.000+/-0.000 χ^2/NDF : 6488130.9/44

In: 0.000+/-0.000 χ^2/NDF :1974662.4/42

Out: 0.000+/-0.000 χ^2/NDF :6924127.1/49

All: 0.000+/-0.000 χ^2/NDF : 9172481.7/92

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.915 $\pm$ 0.000 χ^2 /NDF: 3454025314.8/19

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.265 $\pm$ 0.000 χ^2 /NDF: 7307661343.8/24

Left In: 147.670 $\pm$ 0.000 χ^2 /NDF: 345222604.4/22

Left: 147.879 $\pm$ 0.000 χ^2 /NDF: 418091602.5/47

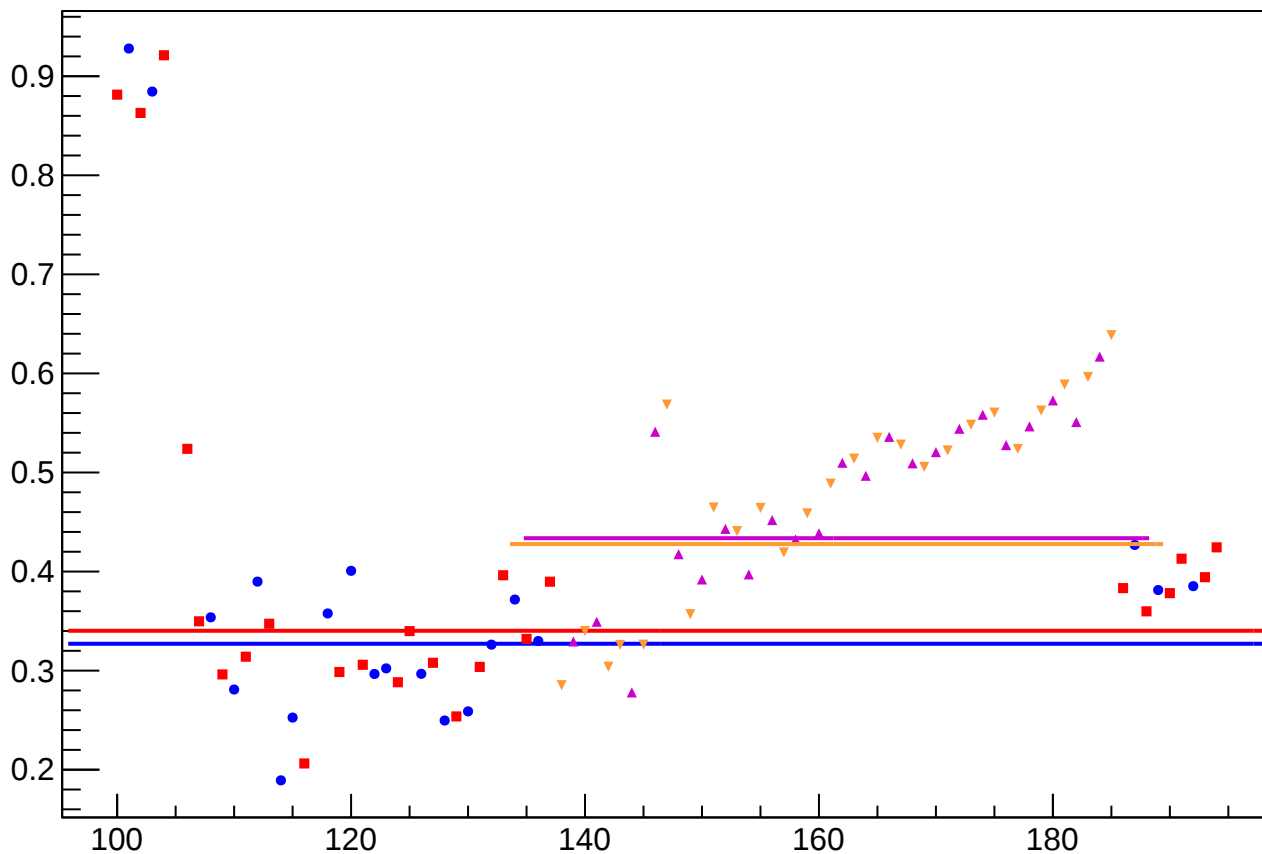
Right: 143.010 $\pm$ 0.000 χ^2 /NDF: 10858140250.8/44

In: 146.064 $\pm$ 0.000 χ^2 /NDF: 4320986418.4/42

Out: 145.412 $\pm$ 0.000 χ^2 /NDF: 8807459482.3/49

All: 145.717 $\pm$ 0.000 χ^2 /NDF: 13162560634.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.327+/-0.000 χ^2/NDF : 1343959.2/19

Left Out: 0.428+/-0.000 χ^2/NDF :1896808.7/24

Right Out: 0.340+/-0.000 χ^2/NDF : 1384646.3/24

Left In: 0.434+/-0.000 χ^2/NDF :1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

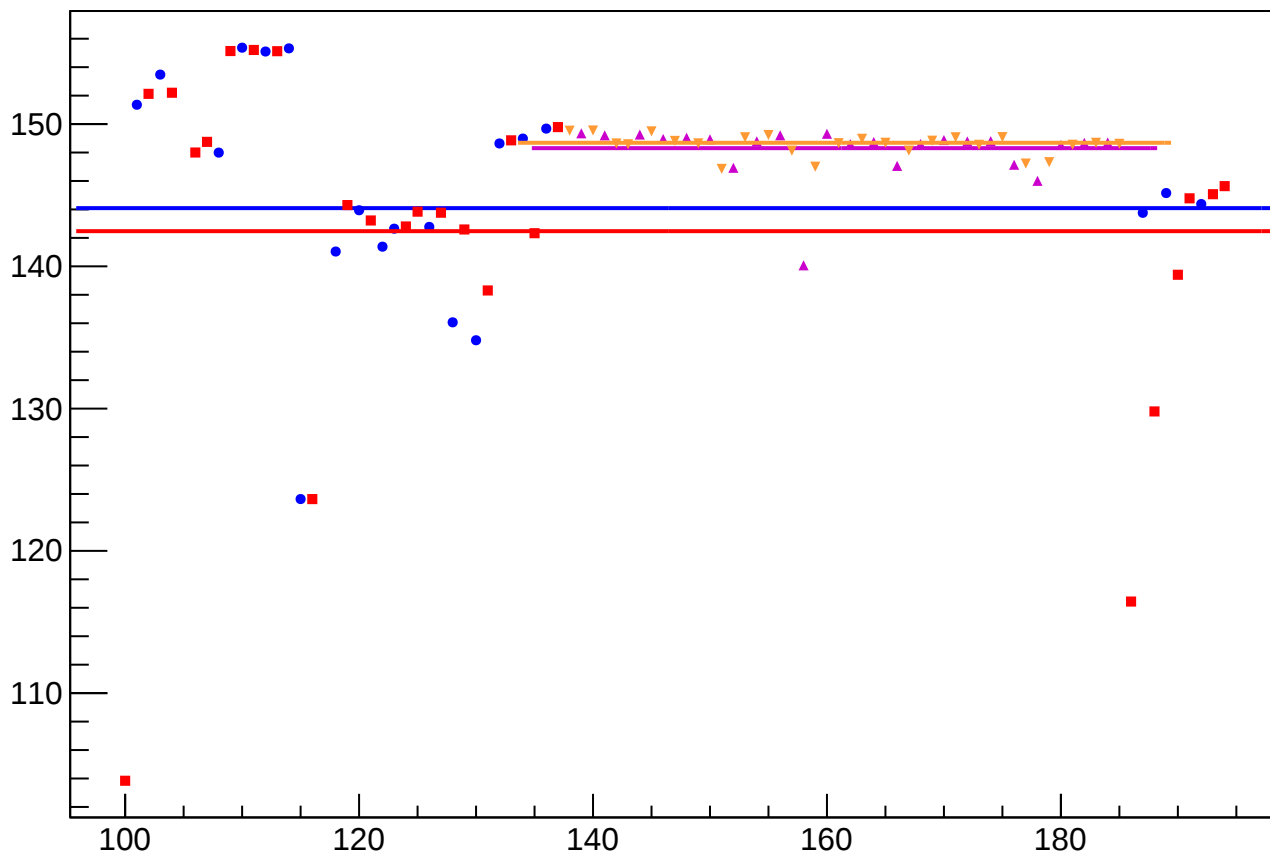
Right: 0.334+/-0.000 χ^2/NDF : 2740791.4/44

In: 0.388+/-0.000 χ^2/NDF :3679929.0/42

Out: 0.388+/-0.000 χ^2/NDF :3932283.5/49

All: 0.388+/-0.000 χ^2/NDF : 7612244.8/92

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.091+/-0.000 χ^2/NDF : 3499221141.9/19

Left Out: 148.686+/-0.000 χ^2/NDF : 52218185.1/24

Right Out: 142.473+/-0.000 χ^2/NDF : 7252474865.4/24

Left In: 148.307+/-0.000 χ^2/NDF : 333585558.2/22

Left: 148.504+/-0.000 χ^2/NDF : 392094013.2/47

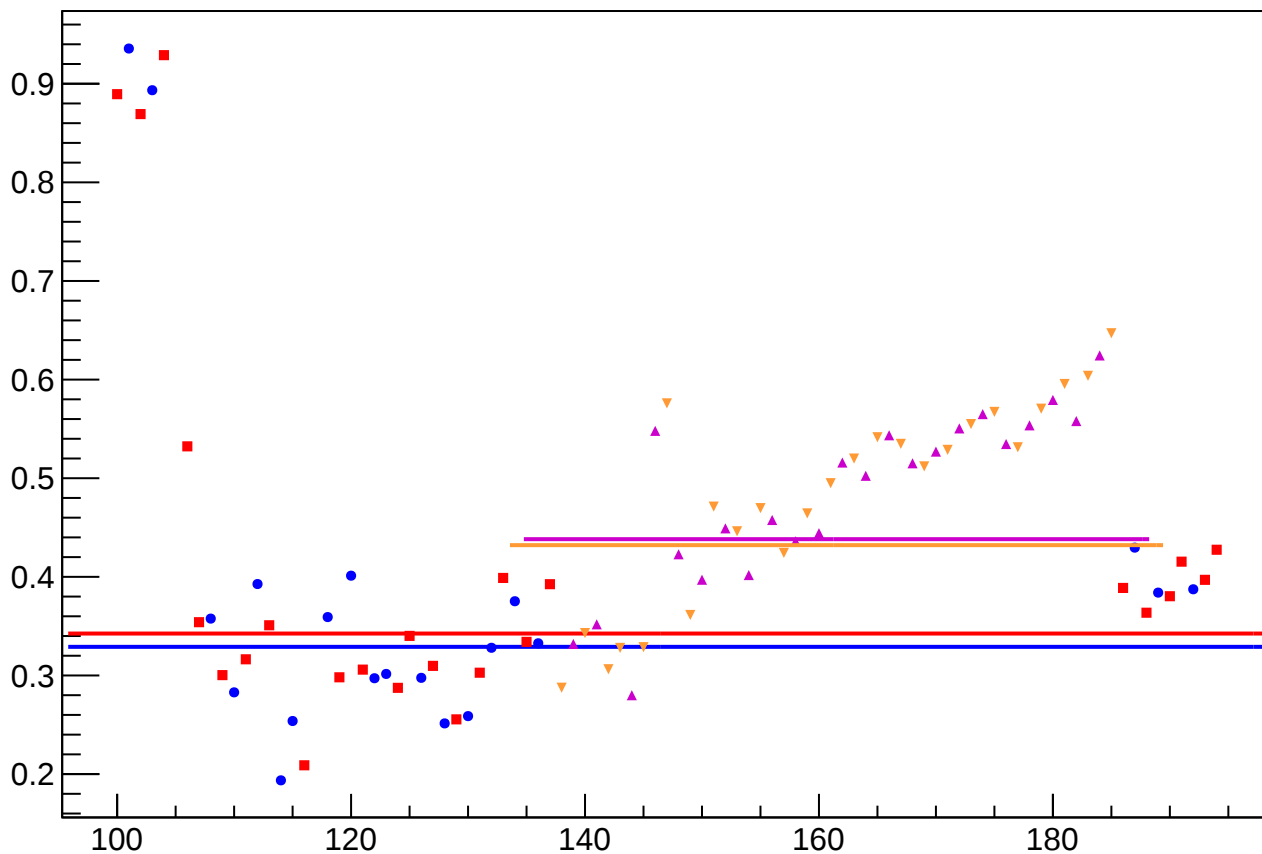
Right: 143.205+/-0.000 χ^2/NDF : 10843384817.1/44

In: 146.493+/-0.000 χ^2/NDF : 4479868826.5/42

Out: 145.827+/-0.000 χ^2/NDF : 8918138142.6/49

All: 146.140+/-0.000 χ^2/NDF : 13433013813.2/100

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2/NDF : 1345892.9/19

Left Out: 0.432 $\pm$ 0.000 χ^2/NDF :1929031.5/24

Right Out: 0.343 $\pm$ 0.000 χ^2/NDF : 1389794.1/24

Left In: 0.438 $\pm$ 0.000 χ^2/NDF :1521893.6/22

Left: 0.435 $\pm$ 0.000 χ^2/NDF : 3454164.8/47

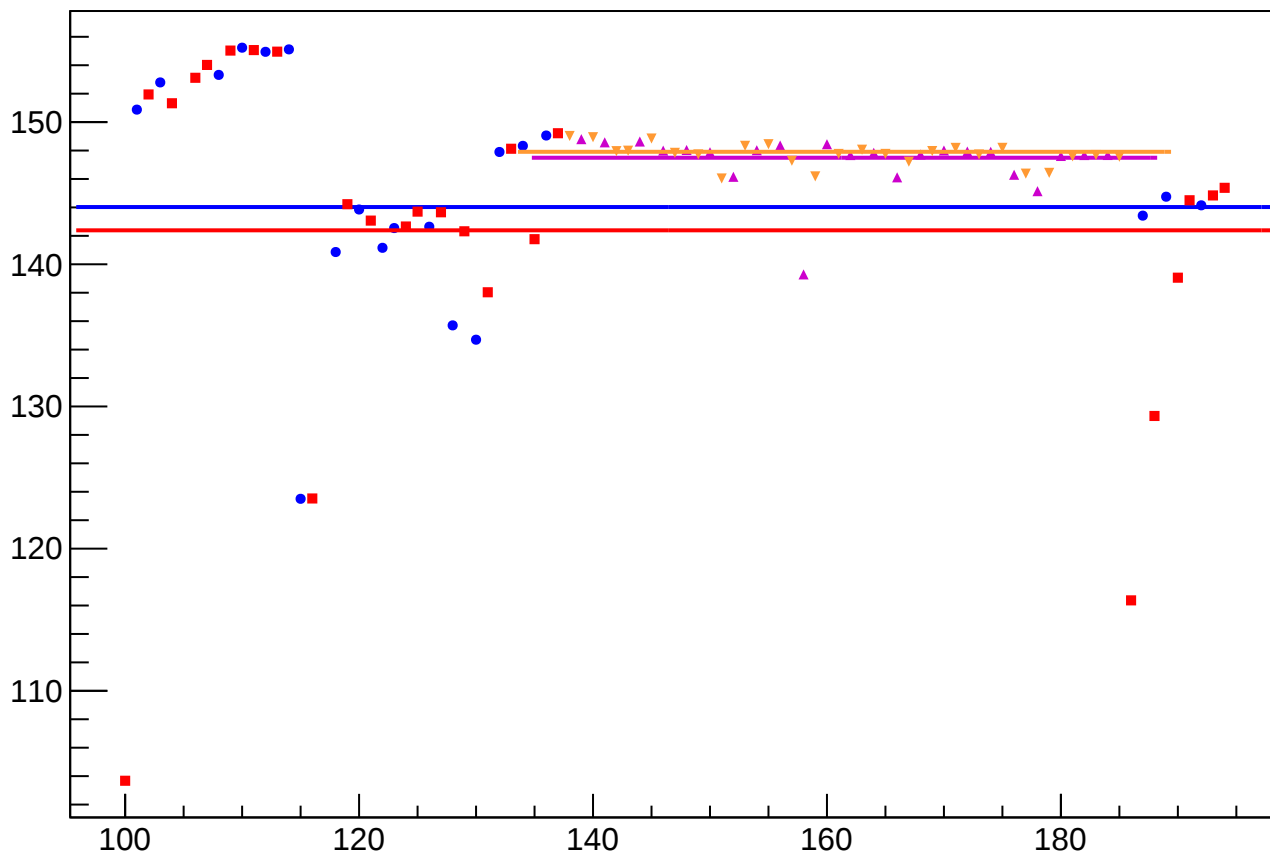
Right: 0.336 $\pm$ 0.000 χ^2/NDF : 2748419.6/44

In: 0.391 $\pm$ 0.000 χ^2/NDF :3735759.9/42

Out: 0.391 $\pm$ 0.000 χ^2/NDF :3990127.1/49

All: 0.391 $\pm$ 0.000 χ^2/NDF : 7725905.4/92

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.026 ± 0.000 $\chi^2/\text{NDF}: 3666358406.9/19$

Left Out: 147.911 ± 0.000 $\chi^2/\text{NDF}: 64412407.9/24$

Right Out: 142.388 ± 0.000 $\chi^2/\text{NDF}: 7696479729.3/24$

Left In: 147.493 ± 0.000 $\chi^2/\text{NDF}: 343978473.2/22$

Left: 147.709 ± 0.000 $\chi^2/\text{NDF}: 416149781.4/47$

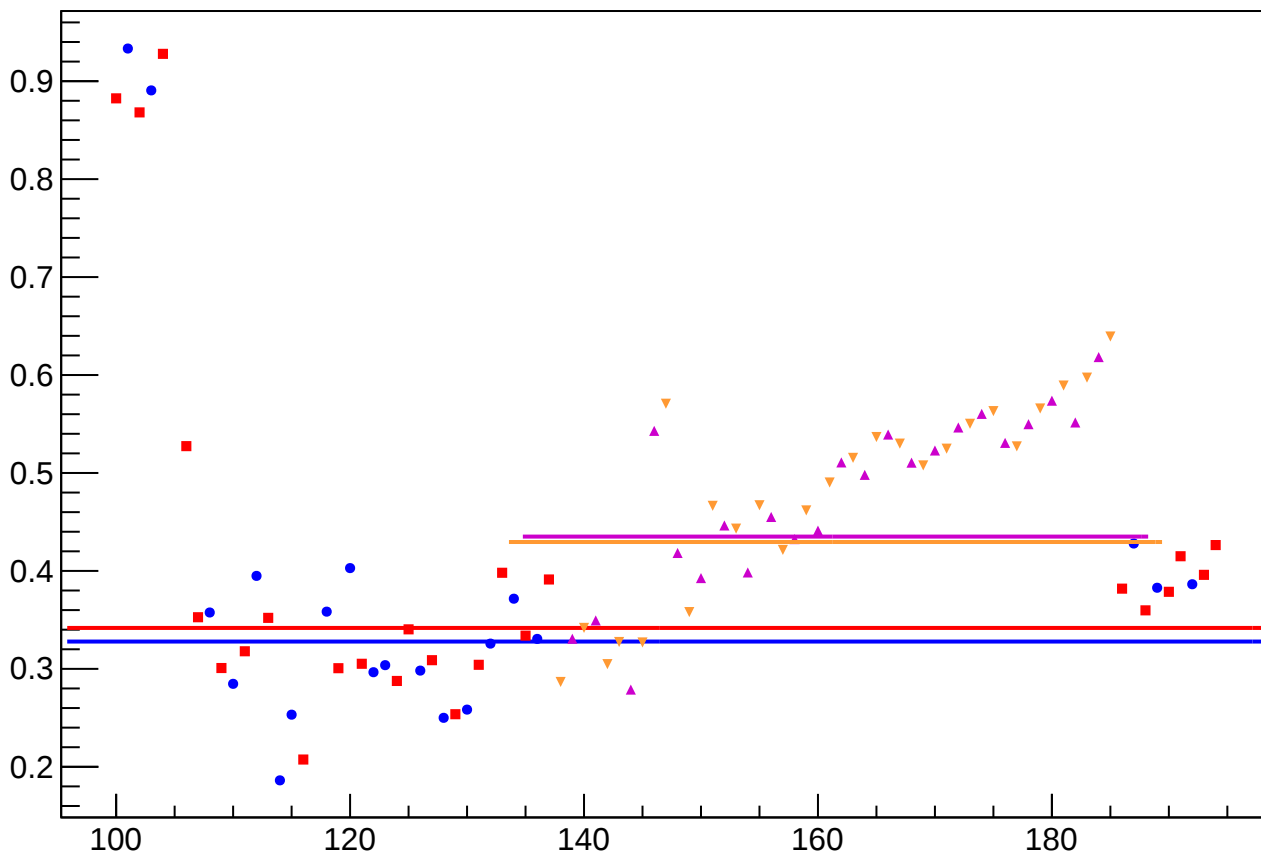
Right: 143.129 ± 0.000 $\chi^2/\text{NDF}: 11457193859.1/44$

In: 146.010 ± 0.000 $\chi^2/\text{NDF}: 4452212883.8/42$

Out: 145.381 ± 0.000 $\chi^2/\text{NDF}: 9046449451.0/49$

All: 145.676 ± 0.000 $\chi^2/\text{NDF}: 13530107349.0/100$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.328 $\pm$ 0.000 χ^2 /NDF: 1359271.8/19

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.342 $\pm$ 0.000 χ^2 /NDF: 1385595.6/24

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

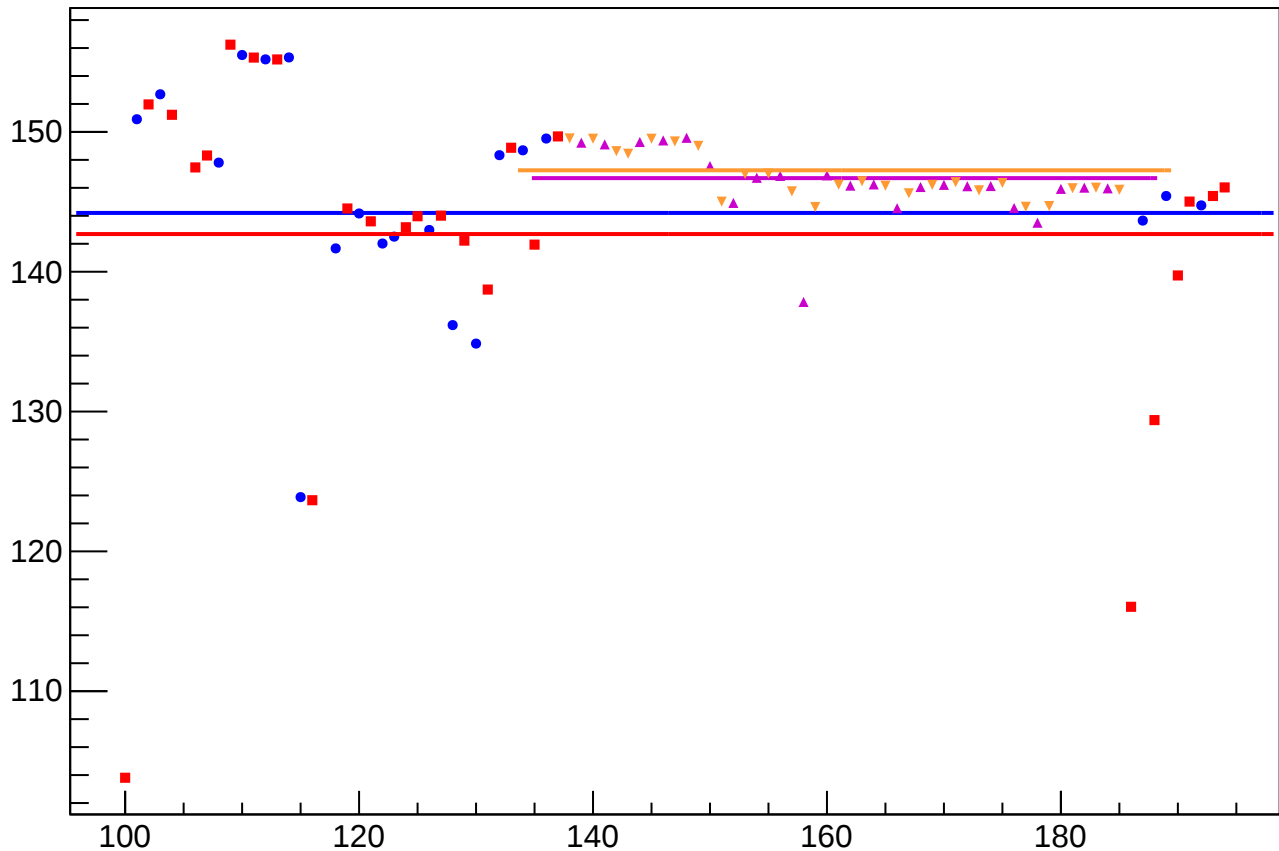
Right: 0.335 $\pm$ 0.000 χ^2 /NDF: 2758472.5/44

In: 0.389 $\pm$ 0.000 χ^2 /NDF:3706265.9/42

Out: 0.389 $\pm$ 0.000 χ^2 /NDF:3930080.4/49

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7636349.4/92

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.206 $\pm$ 0.000 χ^2 /NDF: 3169087797.8/19

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 142.696 $\pm$ 0.000 χ^2 /NDF: 7007249150.9/24

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

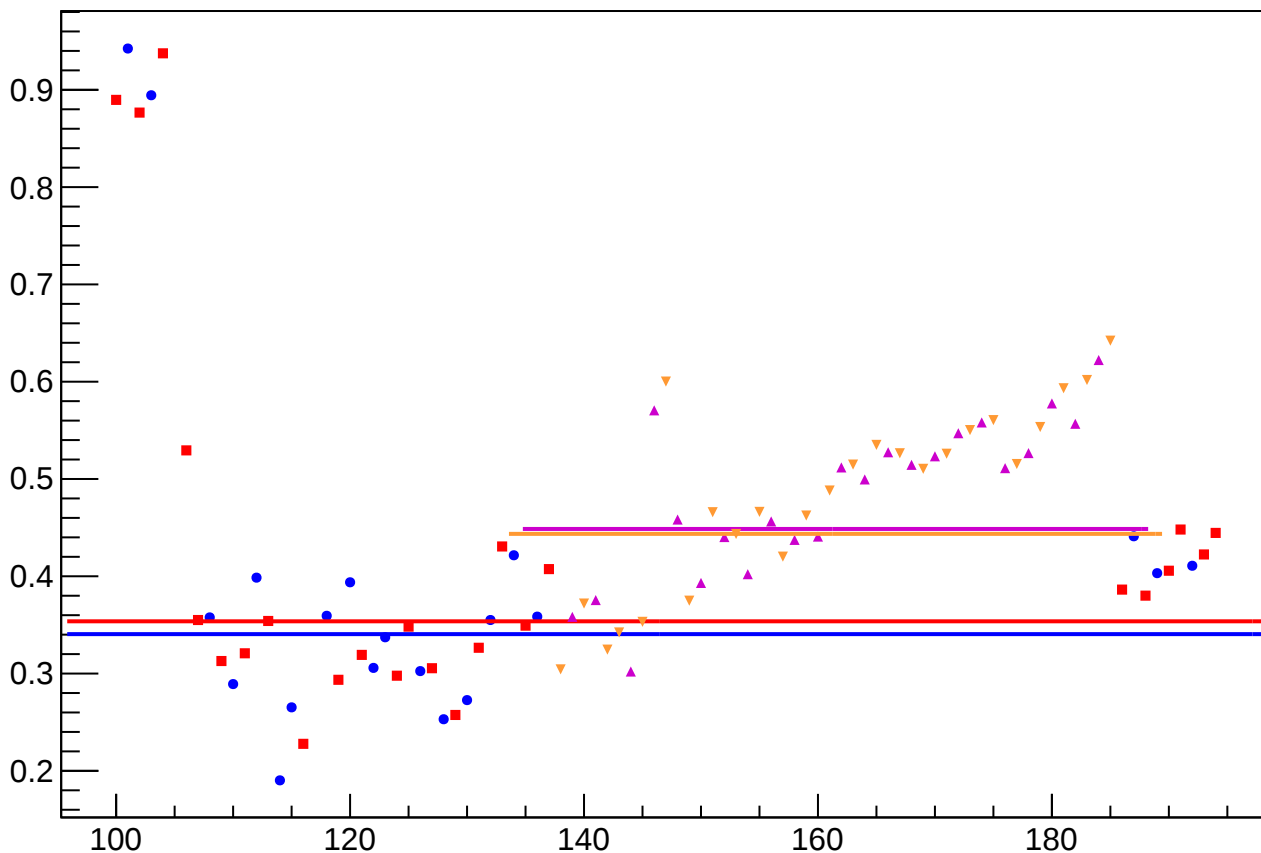
Right: 143.376 $\pm$ 0.000 χ^2 /NDF: 10250702985.9/44

In: 145.648 $\pm$ 0.000 χ^2 /NDF: 3939733702.1/42

Out: 145.187 $\pm$ 0.000 χ^2 /NDF: 8090575260.9/49

All: 145.403 $\pm$ 0.000 χ^2 /NDF: 12046218819.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.341+/-0.000 χ^2/NDF : 1358087.7/19

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.354+/-0.000 χ^2/NDF : 1380236.8/24

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

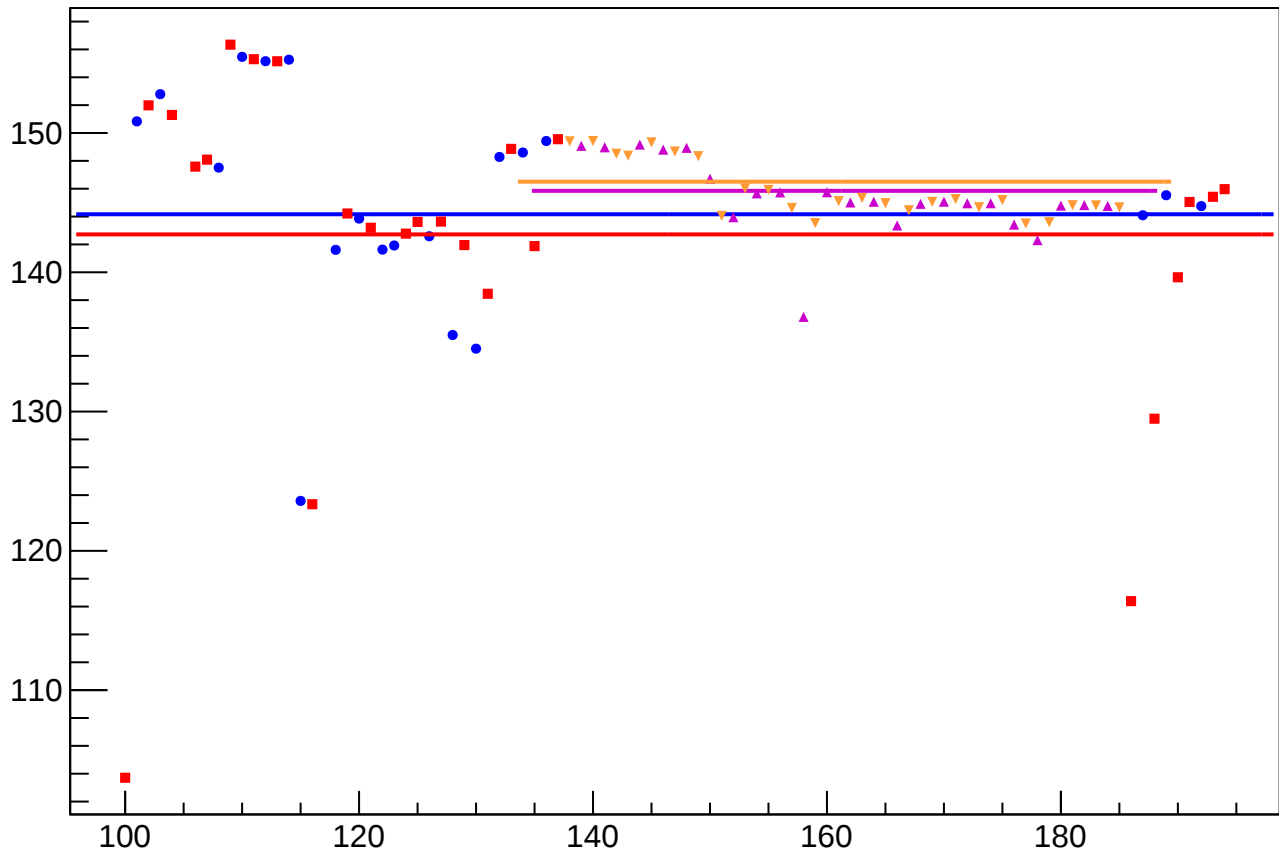
Right: 0.348+/-0.000 χ^2/NDF : 2749629.9/44

In: 0.403+/-0.000 χ^2/NDF :3293408.2/42

Out: 0.403+/-0.000 χ^2/NDF :3501955.8/49

All: 0.403+/-0.000 χ^2/NDF : 6795380.1/92

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.166 ± 0.000 χ^2/NDF : 3289613775.9/19

Left Out: 146.505 ± 0.000 χ^2/NDF : 401688176.3/24

Right Out: 142.720 ± 0.000 χ^2/NDF : 6981989481.8/24

Left In: 145.847 ± 0.000 χ^2/NDF : 694764545.6/22

Left: 146.187 ± 0.000 χ^2/NDF : 1114638549.0/47

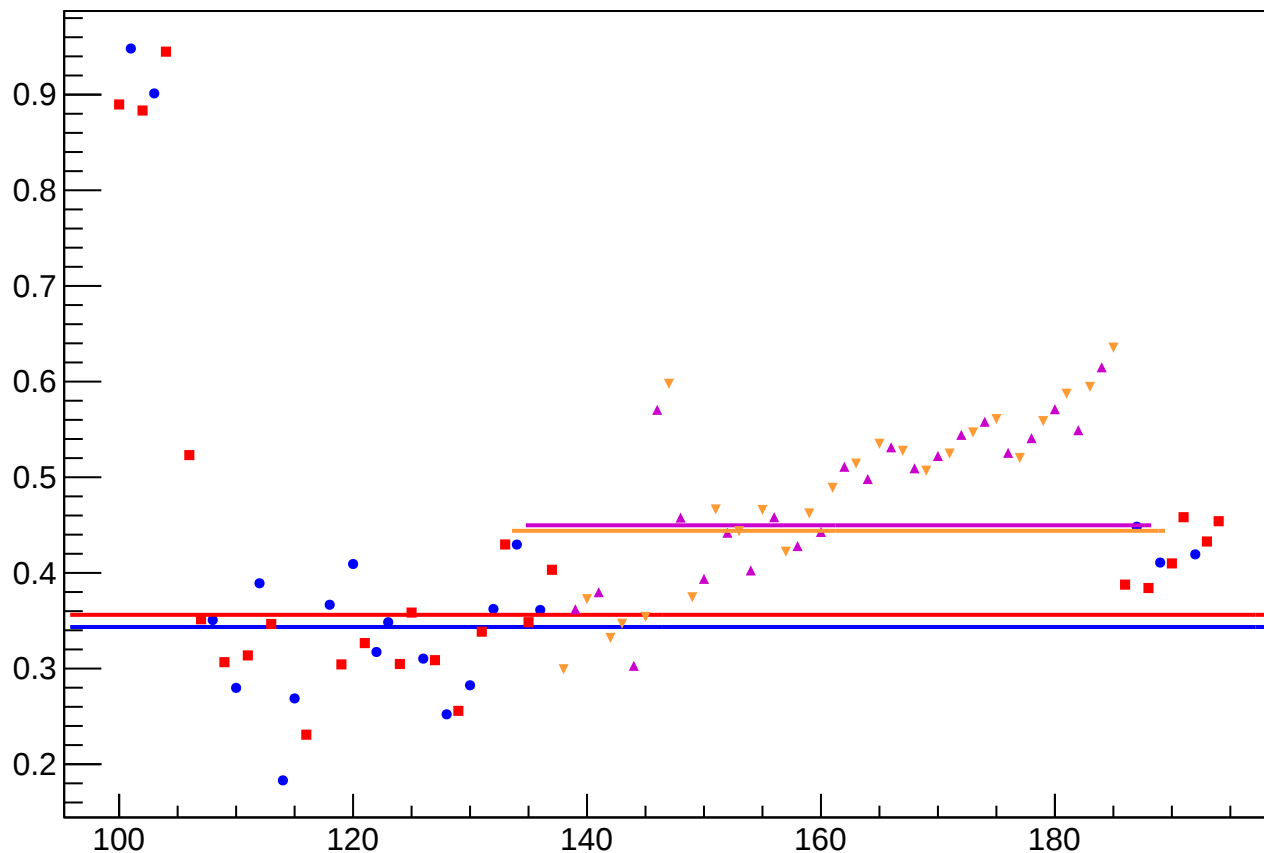
Right: 143.370 ± 0.000 χ^2/NDF : 10338387029.3/44

In: 145.146 ± 0.000 χ^2/NDF : 4079934650.9/42

Out: 144.802 ± 0.000 χ^2/NDF : 7943676340.6/49

All: 144.963 ± 0.000 χ^2/NDF : 12032362982.0

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.343 $\pm$ 0.000 χ^2/NDF : 1383815.7/19

Left Out: 0.444 $\pm$ 0.000 χ^2/NDF :1463293.5/24

Right Out: 0.356 $\pm$ 0.000 χ^2/NDF : 1389804.2/24

Left In: 0.450 $\pm$ 0.000 χ^2/NDF :1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2/NDF : 2571486.5/47

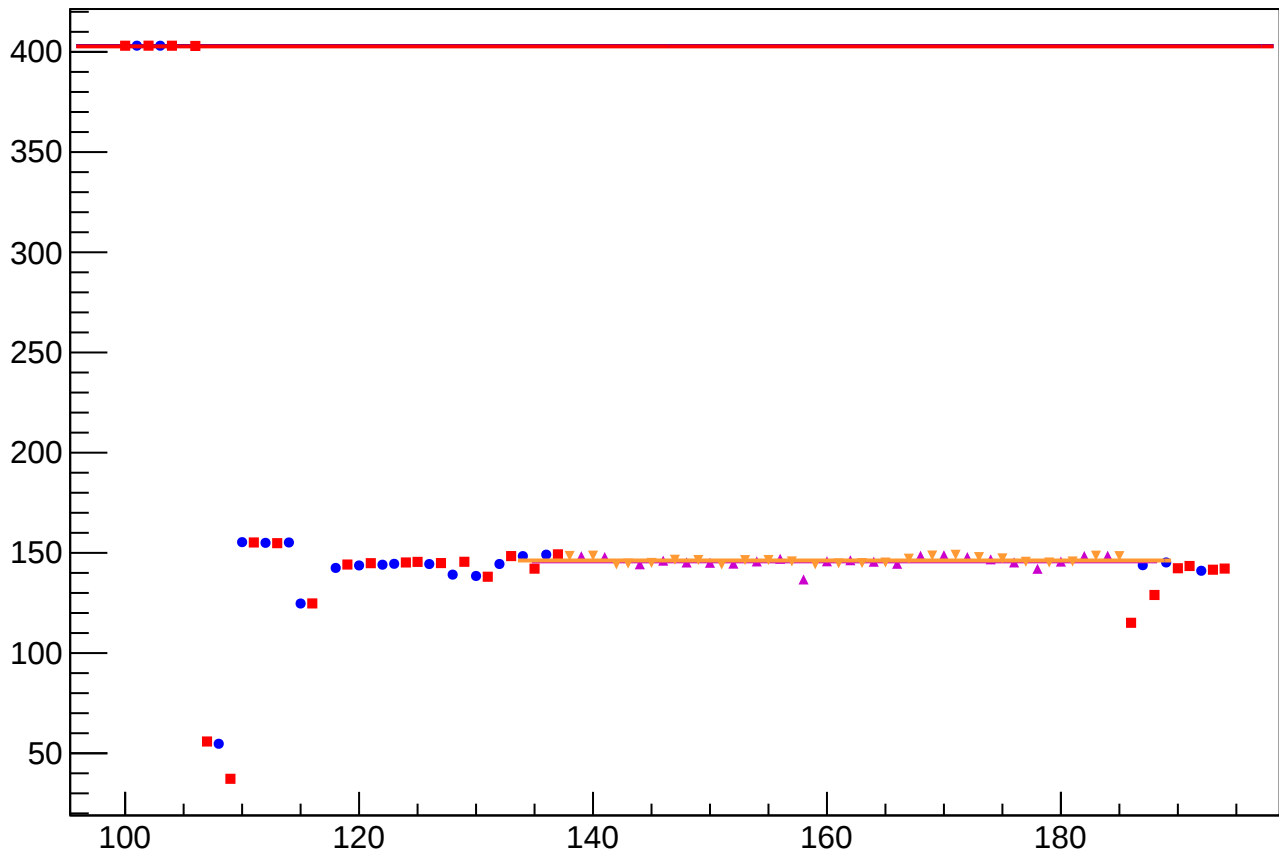
Right: 0.350 $\pm$ 0.000 χ^2/NDF : 2783944.8/44

In: 0.405 $\pm$ 0.000 χ^2/NDF :3254008.5/42

Out: 0.404 $\pm$ 0.000 χ^2/NDF :3456272.2/49

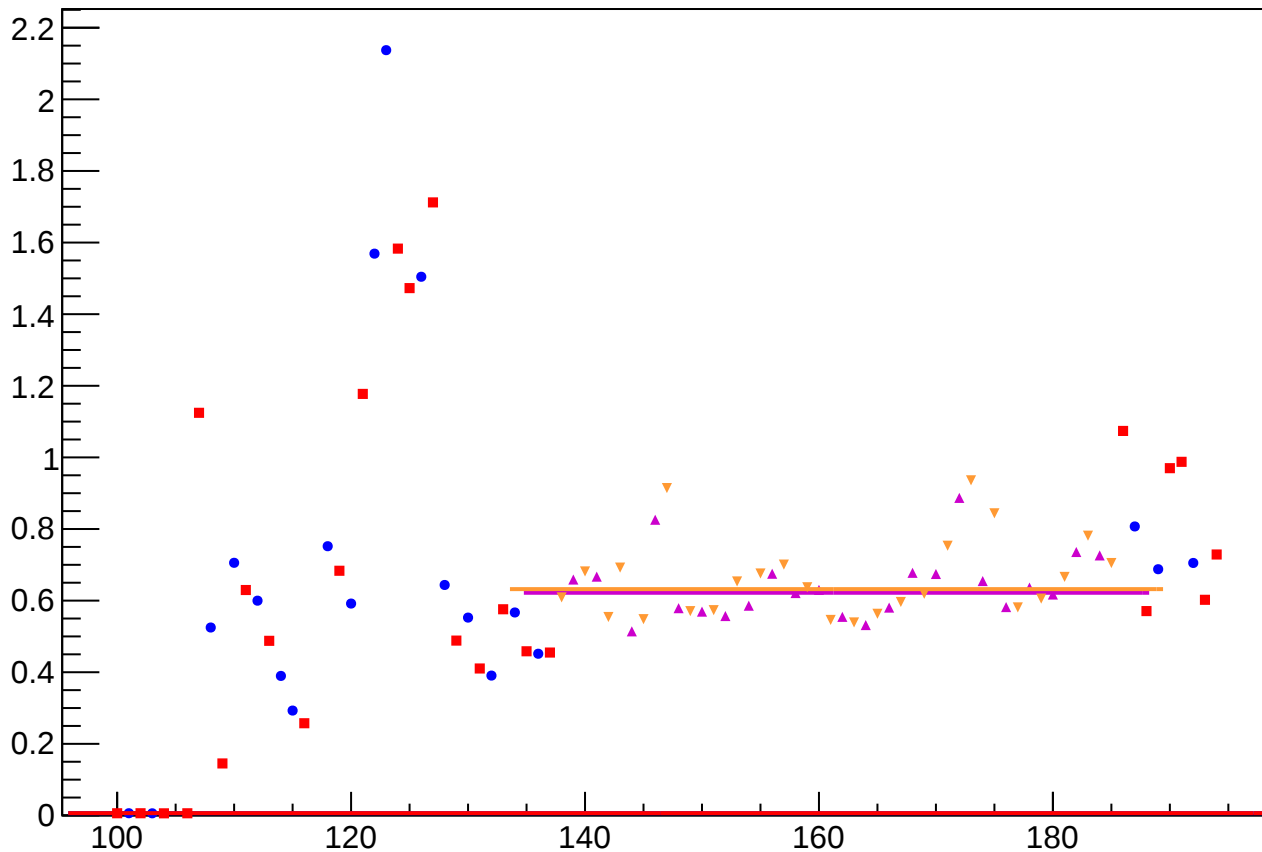
All: 0.405 $\pm$ 0.000 χ^2/NDF : 6710419.0/92

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.939 $\pm$ 0.000	χ^2 /NDF: 1245260855105.9/19	Left: 145.990 $\pm$ 0.000	χ^2 /NDF: 297342055.1/47
Left Out: 146.205 $\pm$ 0.000	χ^2 /NDF: 86658381.3/24	Right: 402.840 $\pm$ 0.000	χ^2 /NDF: 4781709541537.1
Right Out: 402.753 $\pm$ 0.000	χ^2 /NDF: 3535875038581.2/24	In: 402.646 $\pm$ 0.000	χ^2 /NDF: 3594953615623.8/42
Left In: 145.773 $\pm$ 0.000	χ^2 /NDF: 207332354.9/22	Out: 402.491 $\pm$ 0.000	χ^2 /NDF: 5904407147346.9/4
		All: 402.564 $\pm$ 0.000	χ^2 /NDF: 949975718664

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 11228574.8/19

Left Out: 0.632+/-0.000 χ^2/NDF : 614155.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 14678068.1/24

Left In: 0.622+/-0.000 χ^2/NDF : 404479.0/22

Left: 0.627+/-0.000 χ^2/NDF : 1022337.9/47

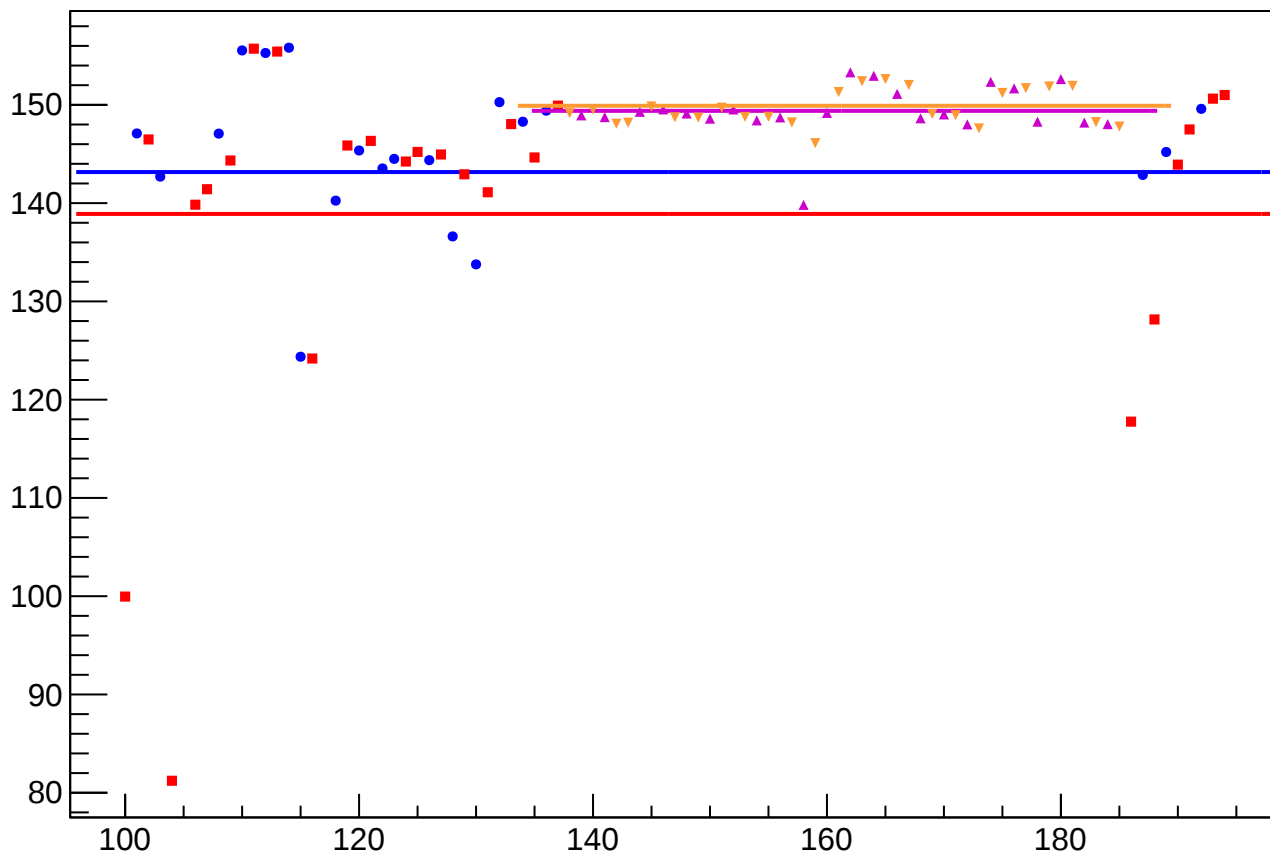
Right: 0.006+/-0.000 χ^2/NDF : 25906737.1/44

In: 0.007+/-0.000 χ^2/NDF : 38554869.2/42

Out: 0.007+/-0.000 χ^2/NDF : 43466273.4/49

All: 0.007+/-0.000 χ^2/NDF : 82021146.0/92

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 143.163 $\pm$ 0.000 χ^2 /NDF: 1092424190.7/19

Left Out: 149.906 $\pm$ 0.000 χ^2 /NDF: 163261802.4/24

Right Out: 138.900 $\pm$ 0.000 χ^2 /NDF: 2719676143.7/24

Left In: 149.391 $\pm$ 0.000 χ^2 /NDF: 437129920.4/22

Left: 149.657 $\pm$ 0.000 χ^2 /NDF: 606930259.3/47

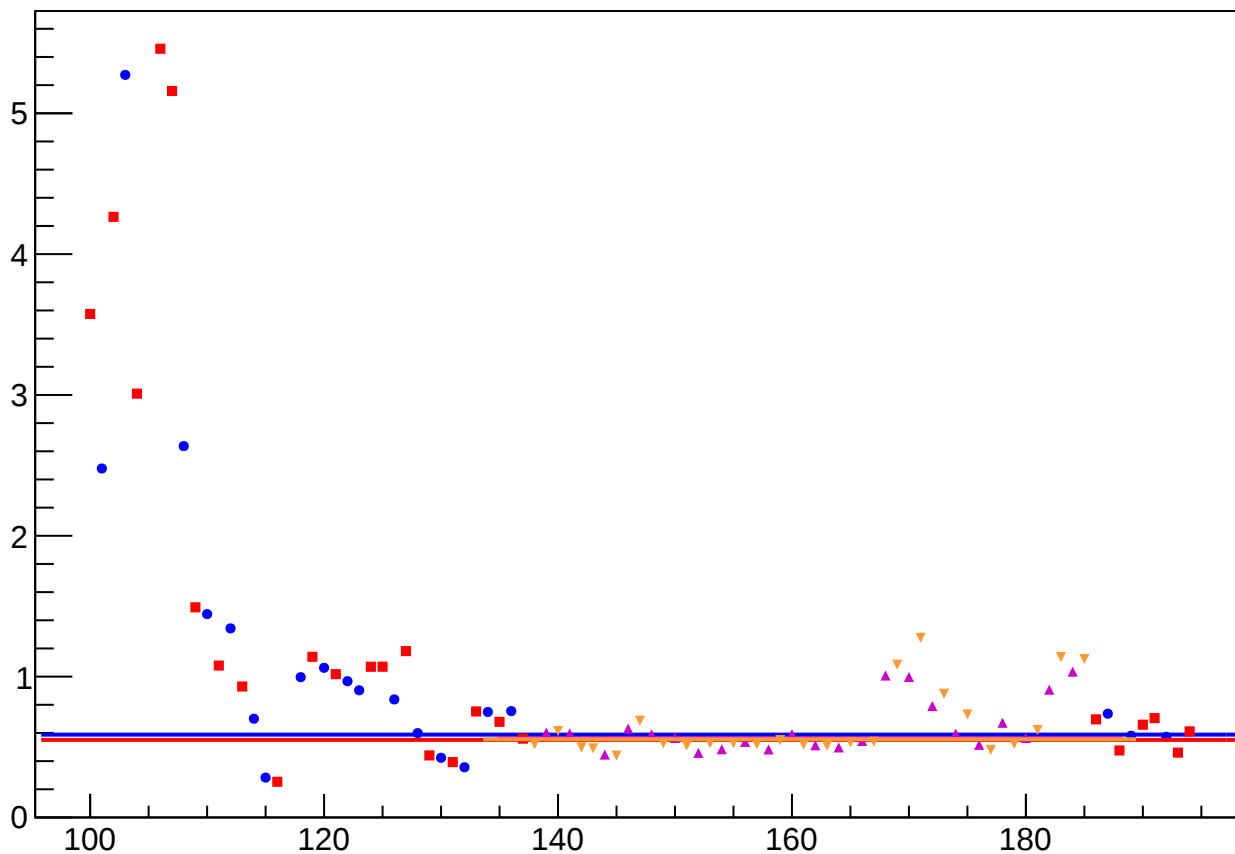
Right: 140.604 $\pm$ 0.000 χ^2 /NDF: 3958587642.8/44

In: 148.020 $\pm$ 0.000 χ^2 /NDF: 1935764161.4/42

Out: 146.784 $\pm$ 0.000 χ^2 /NDF: 4632782639.1/49

All: 147.355 $\pm$ 0.000 χ^2 /NDF: 6618745437.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.588 $\pm$ 0.000 χ^2/NDF : 3483854.0/19

Left Out: 0.555 $\pm$ 0.000 χ^2/NDF : 1773380.1/24

Right Out: 0.551 $\pm$ 0.000 χ^2/NDF : 4811315.4/24

Left In: 0.562 $\pm$ 0.000 χ^2/NDF : 1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2/NDF : 3086646.6/47

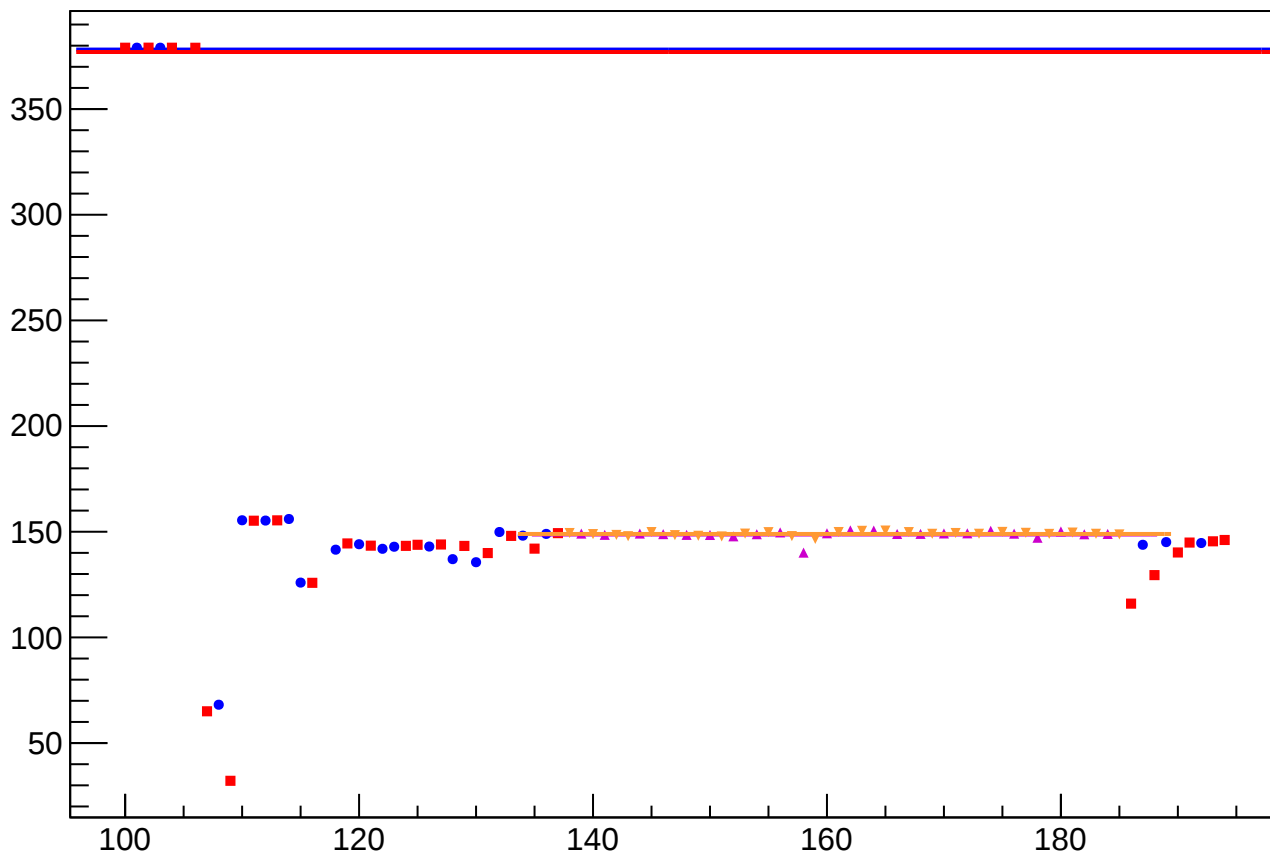
Right: 0.566 $\pm$ 0.000 χ^2/NDF : 8317800.9/44

In: 0.568 $\pm$ 0.000 χ^2/NDF : 4809196.9/42

Out: 0.554 $\pm$ 0.000 χ^2/NDF : 6585332.2/49

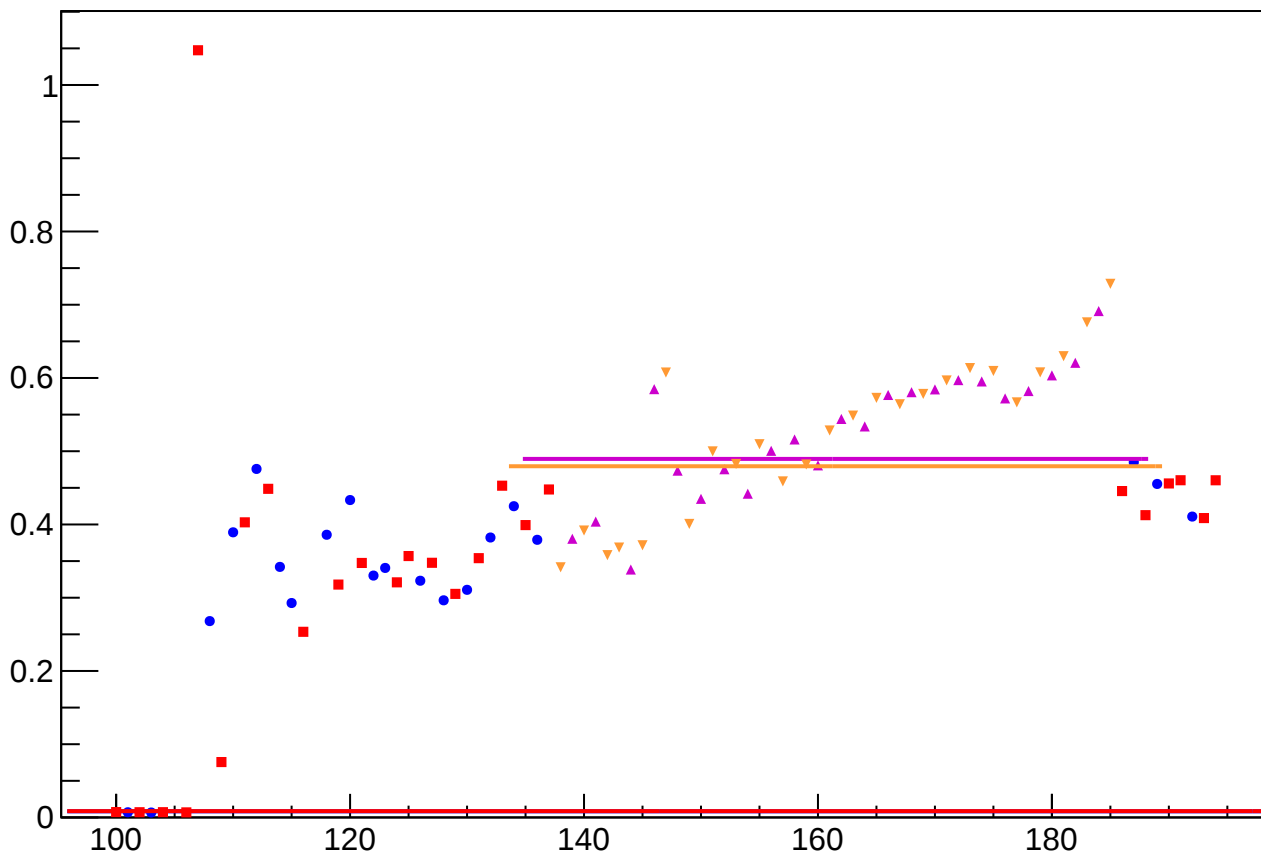
All: 0.560 $\pm$ 0.000 χ^2/NDF : 11406943.0/92

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.154+/-0.000	χ^2/NDF : 2907938884237.8/19	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.544+/-0.000	χ^2/NDF : 12216905374521.4
Right Out: 377.009+/-0.000	χ^2/NDF : 9299665401684.4/24	In: 376.973+/-0.000	χ^2/NDF : 6518046948513.2/42
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.892+/-0.000	χ^2/NDF : 13174326461671.1
		All: 376.397+/-0.000	χ^2/NDF : 197007202860

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 12494722.3/19

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 15857883.7/24

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

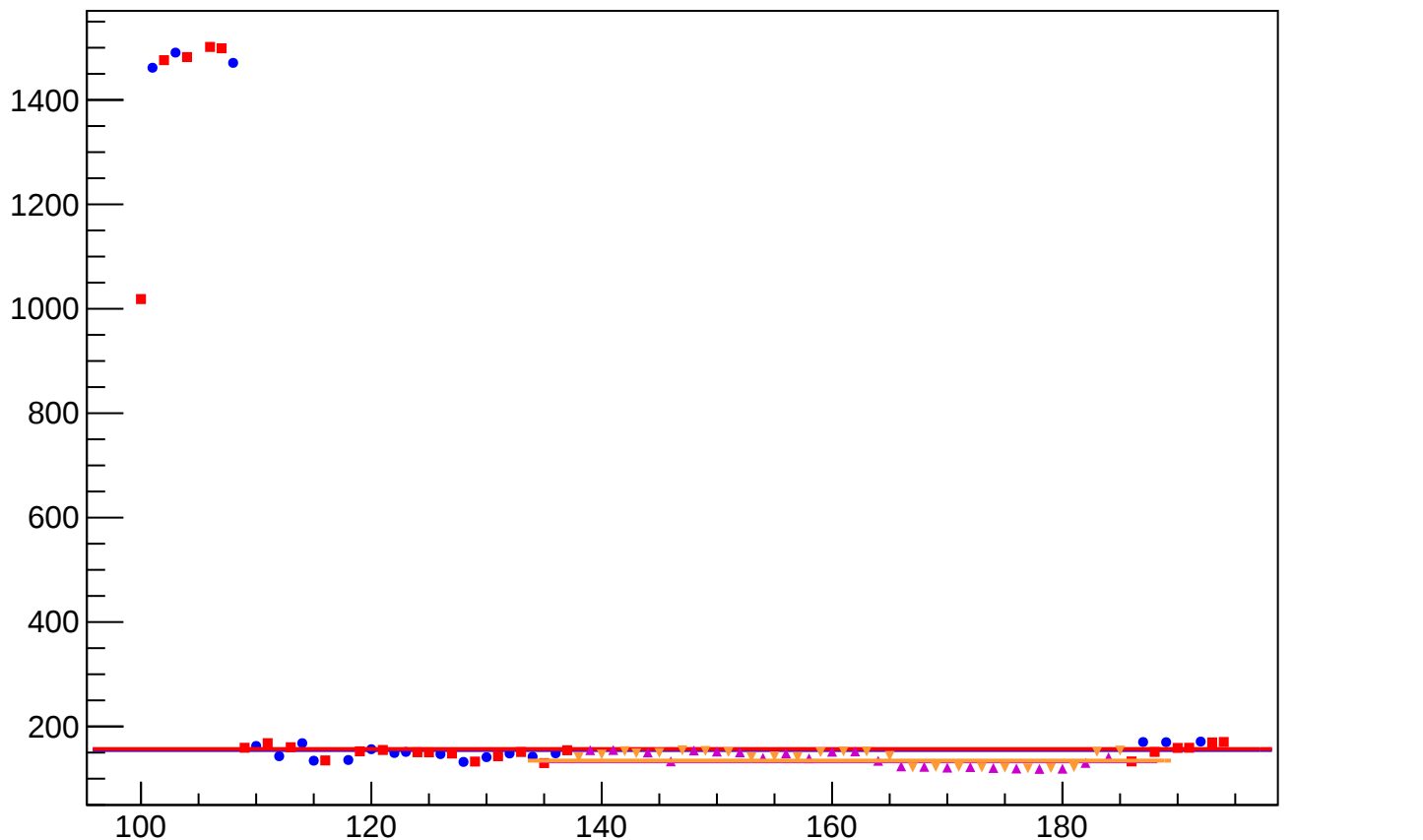
Right: 0.009+/-0.000 χ^2/NDF : 28353709.9/44

In: 0.011+/-0.000 χ^2/NDF :45327789.5/42

Out: 0.011+/-0.000 χ^2/NDF :50407463.3/49

All: 0.011+/-0.000 χ^2/NDF : 95735427.5/92

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.994 $\pm$ 0.000 χ^2 /NDF: 25373877251.8/19

Left Out: 134.585 $\pm$ 0.000 χ^2 /NDF: 4387324151.1/24

Right Out: 156.733 $\pm$ 0.000 χ^2 /NDF: 34616242296.7/24

Left In: 133.309 $\pm$ 0.000 χ^2 /NDF: 4353039408.6/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8759337937.7/47

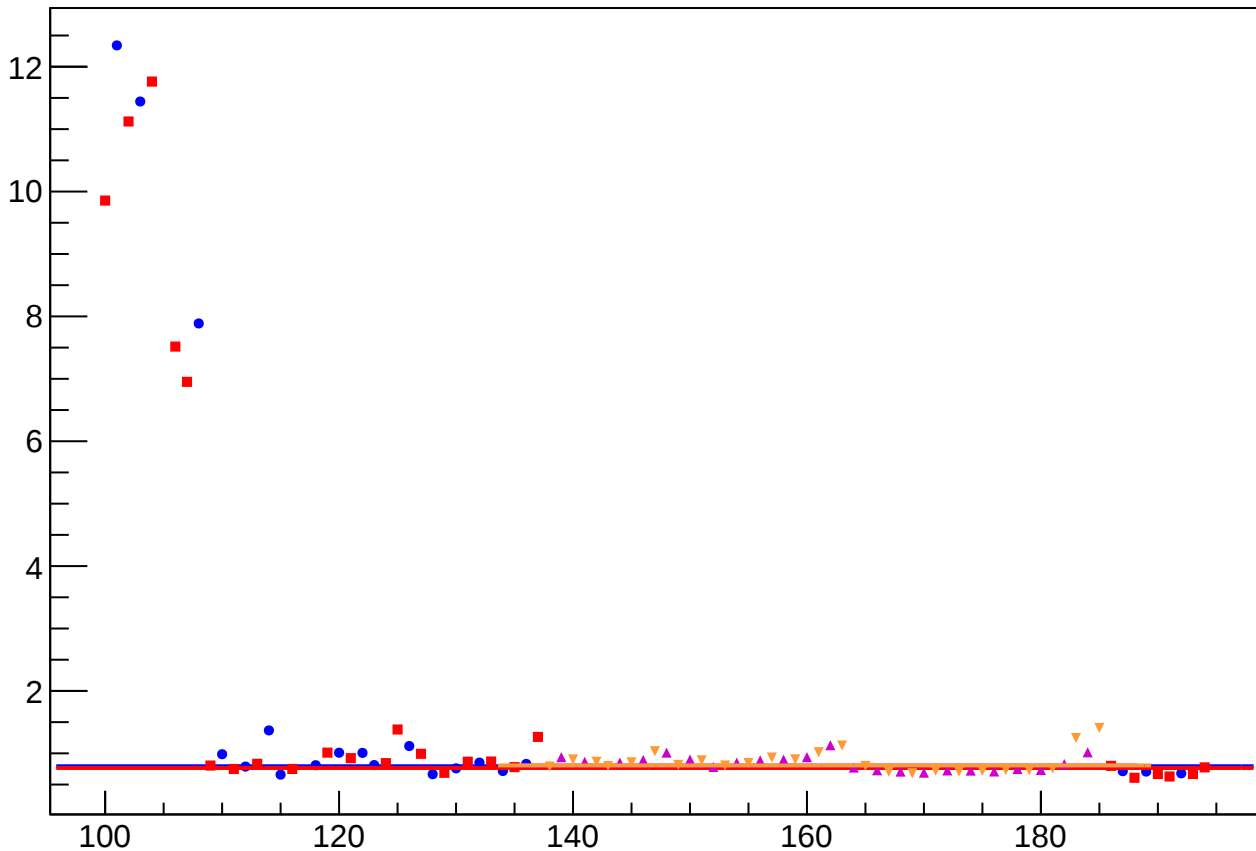
Right: 156.032 $\pm$ 0.000 χ^2 /NDF: 60004519103.0/44

In: 138.908 $\pm$ 0.000 χ^2 /NDF: 32512804971.1/42

Out: 141.942 $\pm$ 0.000 χ^2 /NDF: 42871774940.7/49

All: 140.530 $\pm$ 0.000 χ^2 /NDF: 75536823045.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.793+/-0.000 χ^2/NDF : 2756992.1/19

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.766+/-0.000 χ^2/NDF : 3123261.2/24

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

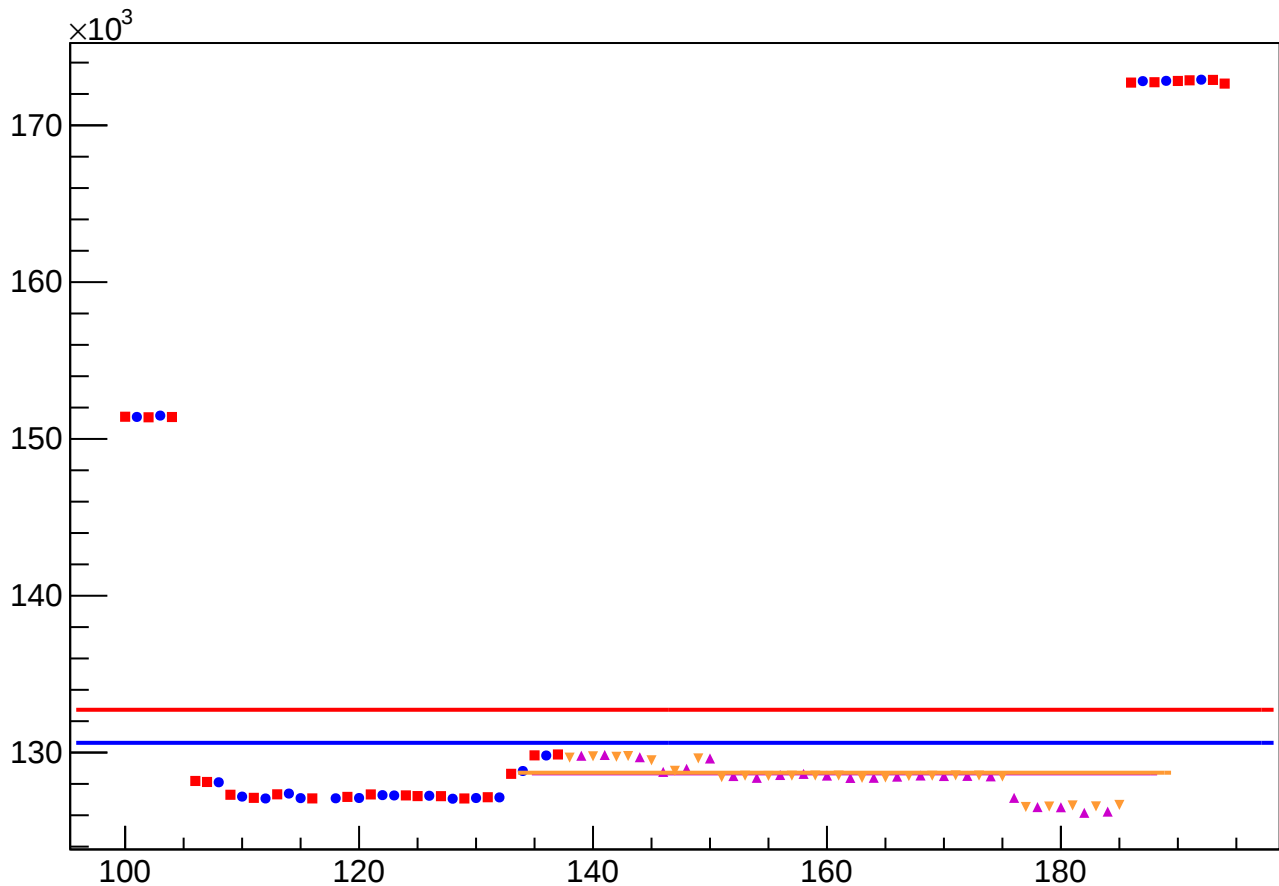
Right: 0.777+/-0.000 χ^2/NDF : 5887281.0/44

In: 0.802+/-0.000 χ^2/NDF : 3238276.6/42

Out: 0.793+/-0.000 χ^2/NDF : 3853816.8/49

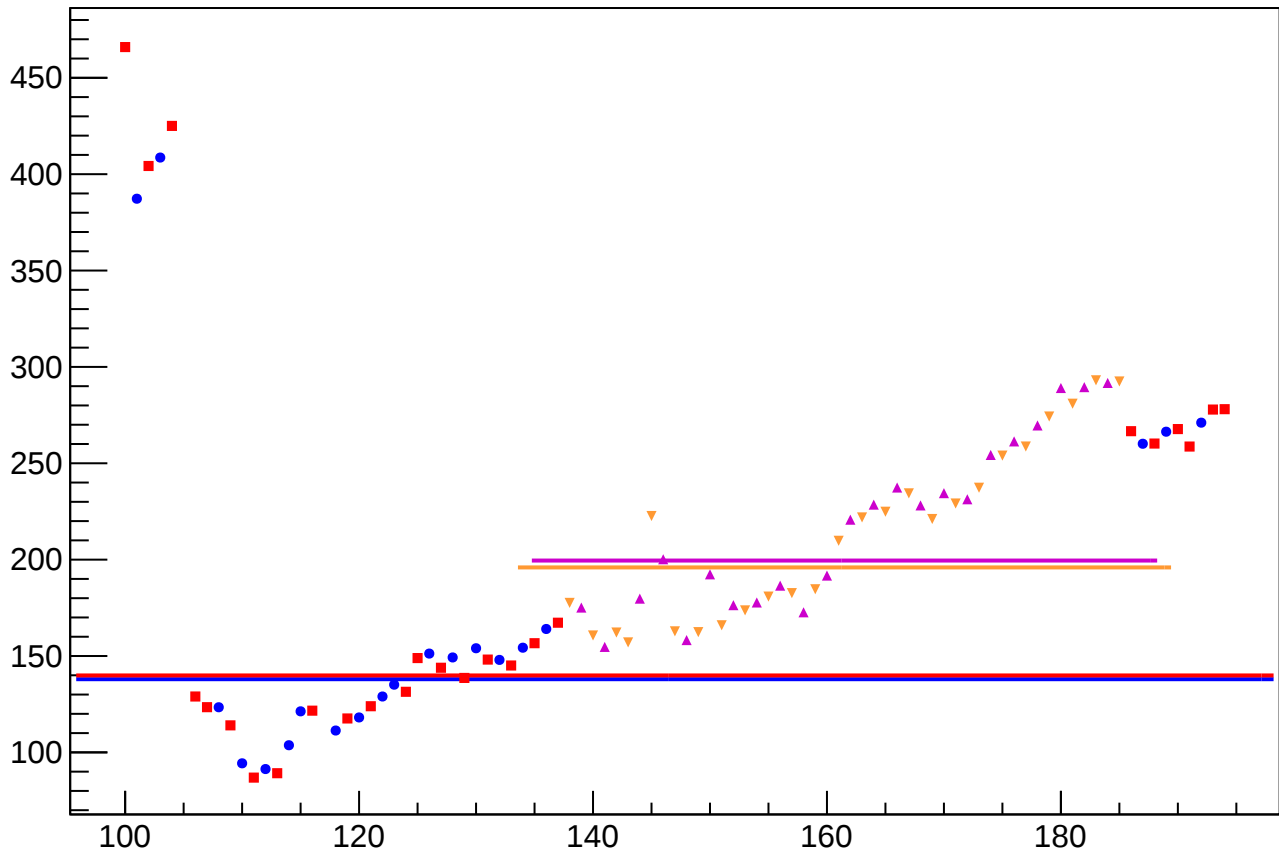
All: 0.797+/-0.000 χ^2/NDF : 7094458.3/92

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 130619.803 $\pm$ 0.053 χ^2 /NDF: 43291999994.8/19
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 132727.667 $\pm$ 0.048 χ^2 /NDF: 88560761864.1/24
 Left In: 128670.094 $\pm$ 0.049 χ^2 /NDF: 334875494.0/22
 Left: 128692.941 $\pm$ 0.034 χ^2 /NDF: 683588051.4/47
 Right: 131786.894 $\pm$ 0.035 χ^2 /NDF: 132727567388
 In: 129564.773 $\pm$ 0.036 χ^2 /NDF: 44358347720.9/4
 Out: 130679.881 $\pm$ 0.033 χ^2 /NDF: 92535097228.6
 All: 130164.151 $\pm$ 0.024 χ^2 /NDF: 137411389

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.968 $\pm$ 0.037 χ^2 /NDF: 2228460.7/19

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 139.917 $\pm$ 0.034 χ^2 /NDF: 3299902.4/24

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

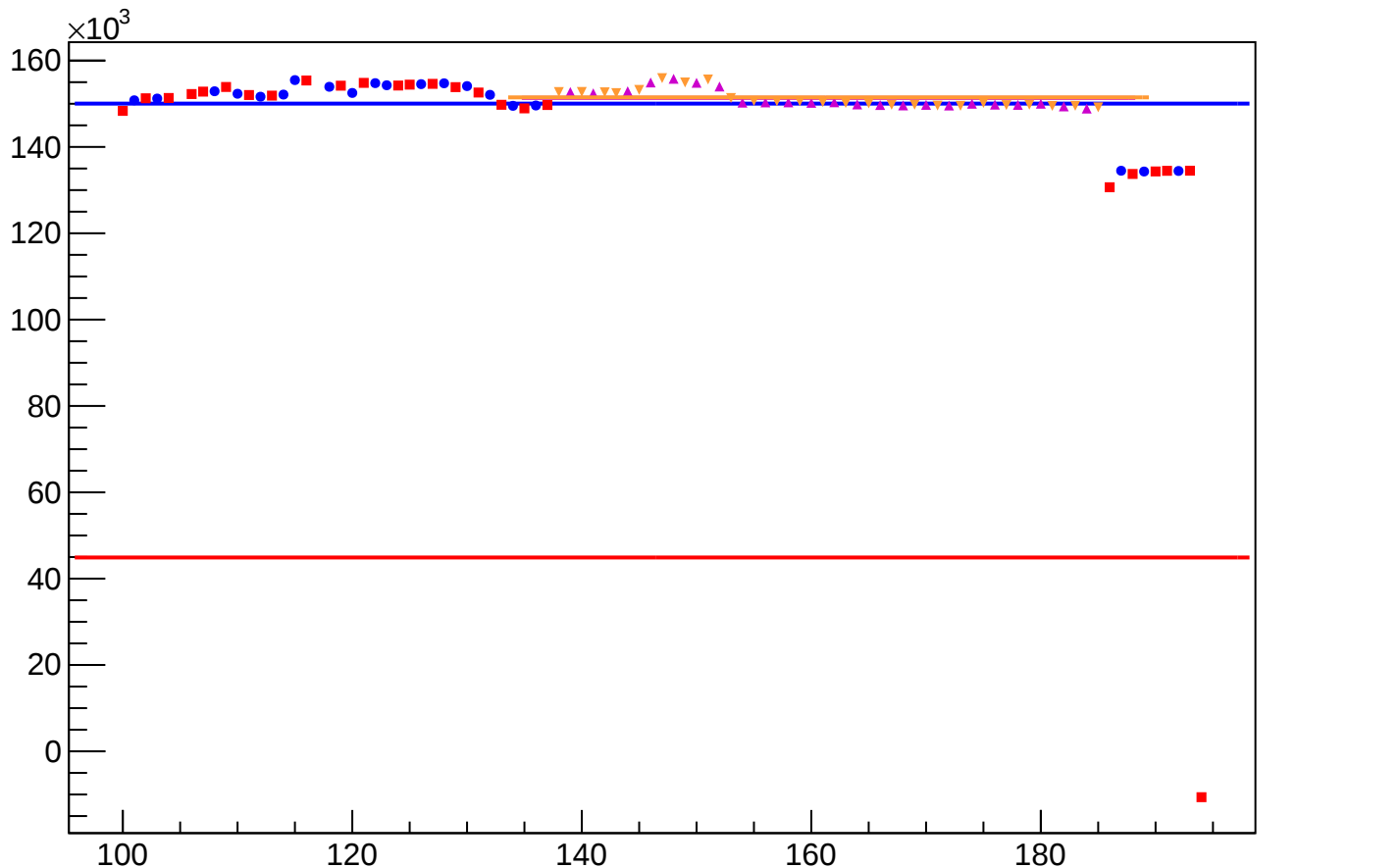
Right: 139.047 $\pm$ 0.025 χ^2 /NDF: 5529859.0/44

In: 171.281 $\pm$ 0.025 χ^2 /NDF:4862378.2/42

Out: 168.511 $\pm$ 0.024 χ^2 /NDF:6029944.6/49

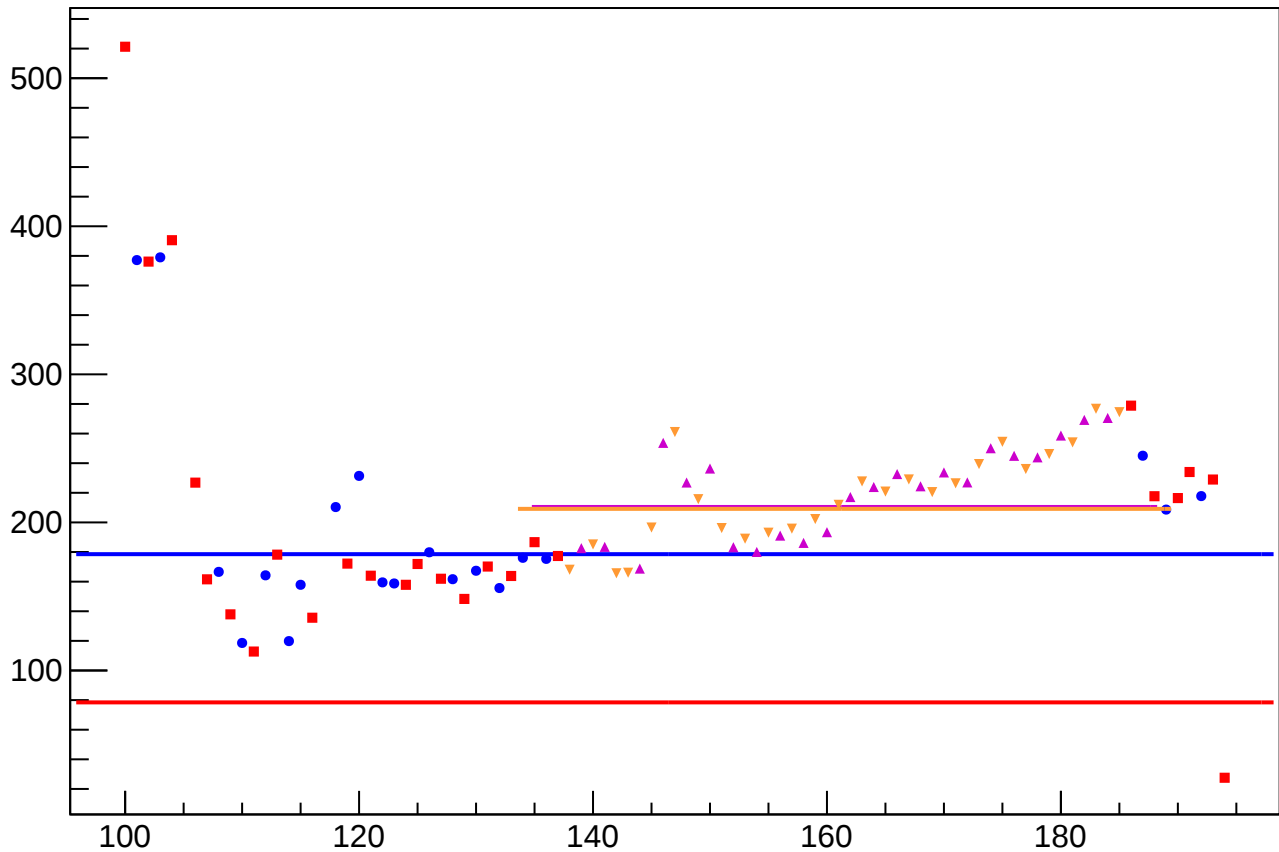
All: 169.792 $\pm$ 0.017 χ^2 /NDF: 10898716.2/92

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 150035.842 $\pm$ 0.067	χ^2 /NDF: 9546049292.6/19	Left: 151423.440 $\pm$ 0.036	χ^2 /NDF: 2913216467.1/19
Left Out: 151480.339 $\pm$ 0.049	χ^2 /NDF: 1483692735.3/24	Right: 67796.010 $\pm$ 0.031	χ^2 /NDF: 6583023605496
Right Out: 44895.658 $\pm$ 0.035	χ^2 /NDF: 4651734998368.5/24	In: 150873.791 $\pm$ 0.041	χ^2 /NDF: 11219891395.8/4
Left In: 151362.440 $\pm$ 0.051	χ^2 /NDF: 1426782789.9/22	Out: 80983.898 $\pm$ 0.029	χ^2 /NDF: 7723264139746
		All: 104280.681 $\pm$ 0.024	χ^2 /NDF: 969930154

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 178.558 $\pm$ 0.047 χ^2 /NDF: 1038624.5/19

Left Out: 209.156 $\pm$ 0.035 χ^2 /NDF: 710094.9/24

Right Out: 78.455 $\pm$ 0.025 χ^2 /NDF: 9198579.3/24

Left In: 210.431 $\pm$ 0.036 χ^2 /NDF: 684015.0/22

Left: 209.771 $\pm$ 0.025 χ^2 /NDF: 1394750.9/47

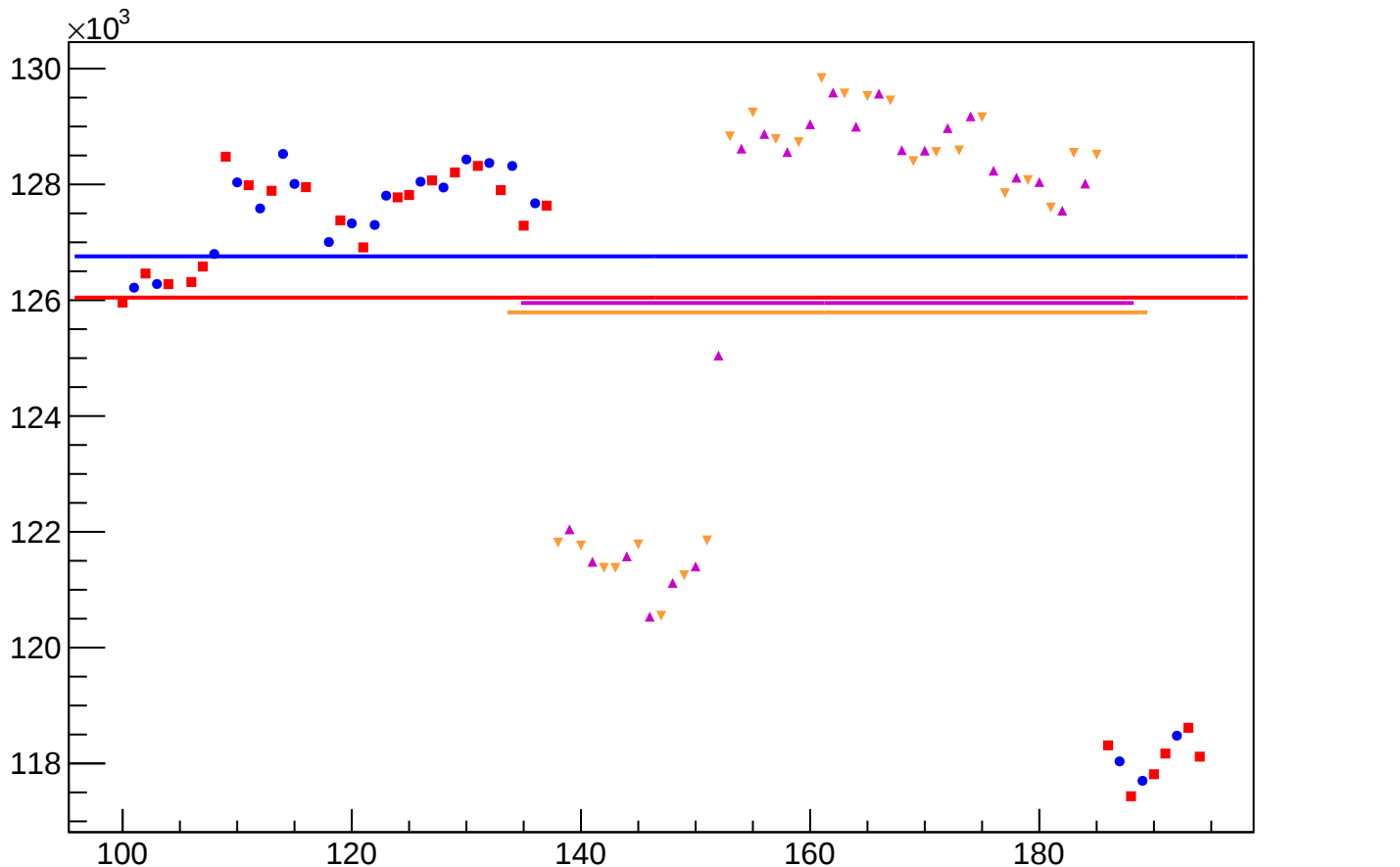
Right: 100.258 $\pm$ 0.022 χ^2 /NDF: 13721218.0/44

In: 198.690 $\pm$ 0.029 χ^2 /NDF: 2007865.7/42

Out: 122.709 $\pm$ 0.020 χ^2 /NDF: 19141603.1/49

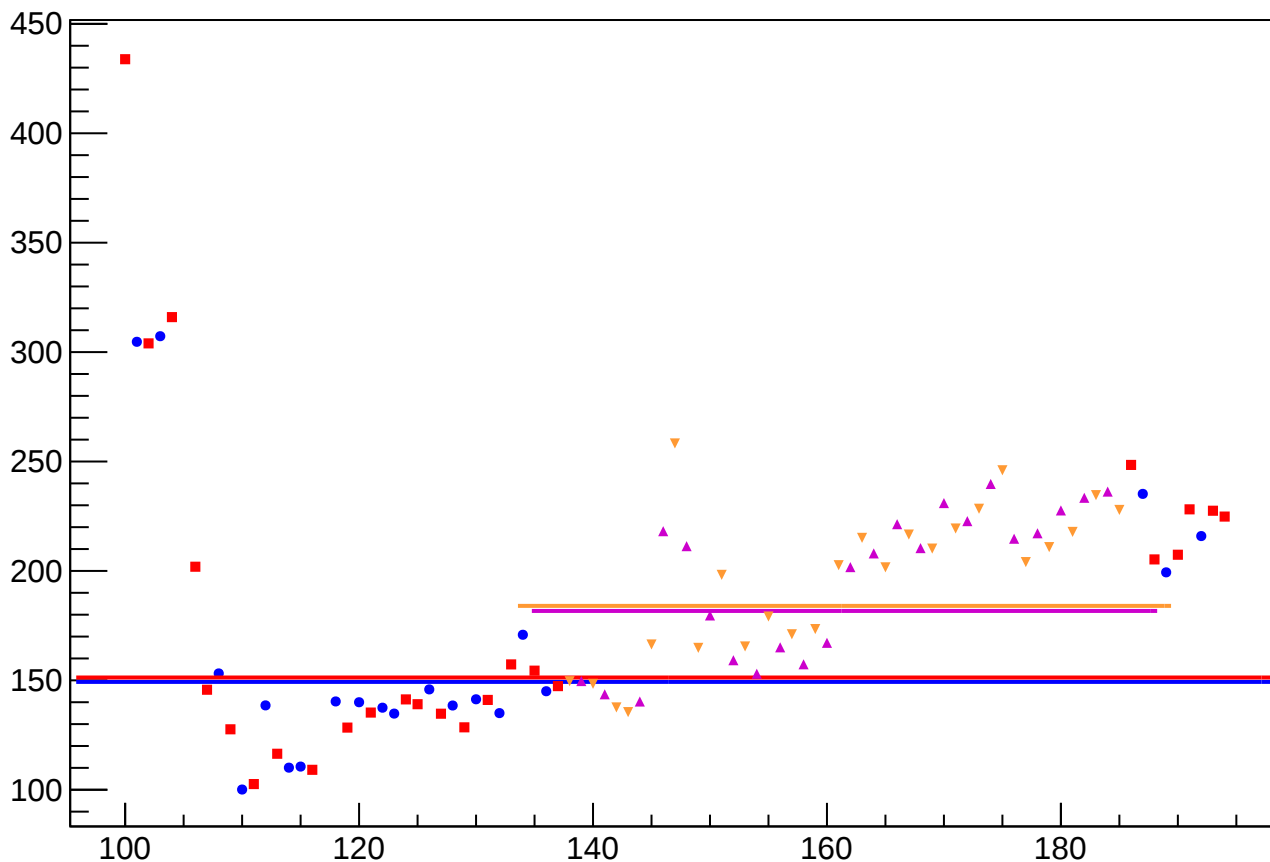
All: 148.036 $\pm$ 0.017 χ^2 /NDF: 25793992.7/92

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 126757.877 $\pm$ 0.055	χ^2/NDF : 2775715937.9/19	Left: 125870.001 $\pm$ 0.031	χ^2/NDF : 12592819321.6/21
Left Out: 125790.126 $\pm$ 0.044	χ^2/NDF : 6744310079.8/24	Right: 126362.740 $\pm$ 0.037	χ^2/NDF : 8481292543.6/24
Right Out: 126045.762 $\pm$ 0.050	χ^2/NDF : 5613879768.3/24	In: 126269.752 $\pm$ 0.035	χ^2/NDF : 8745635938.0/42
Left In: 125952.447 $\pm$ 0.045	χ^2/NDF : 5841800367.5/22	Out: 125902.555 $\pm$ 0.033	χ^2/NDF : 12373061654.6/24
		All: 126076.036 $\pm$ 0.024	χ^2/NDF : 211775374.0/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 149.290 $\pm$ 0.039 χ^2/NDF : 1129642.9/19

Left Out: 184.029 $\pm$ 0.031 χ^2/NDF :1126592.5/24

Right Out: 151.298 $\pm$ 0.035 χ^2/NDF : 1778637.1/24

Left In: 181.714 $\pm$ 0.032 χ^2/NDF :1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2/NDF : 2245464.4/47

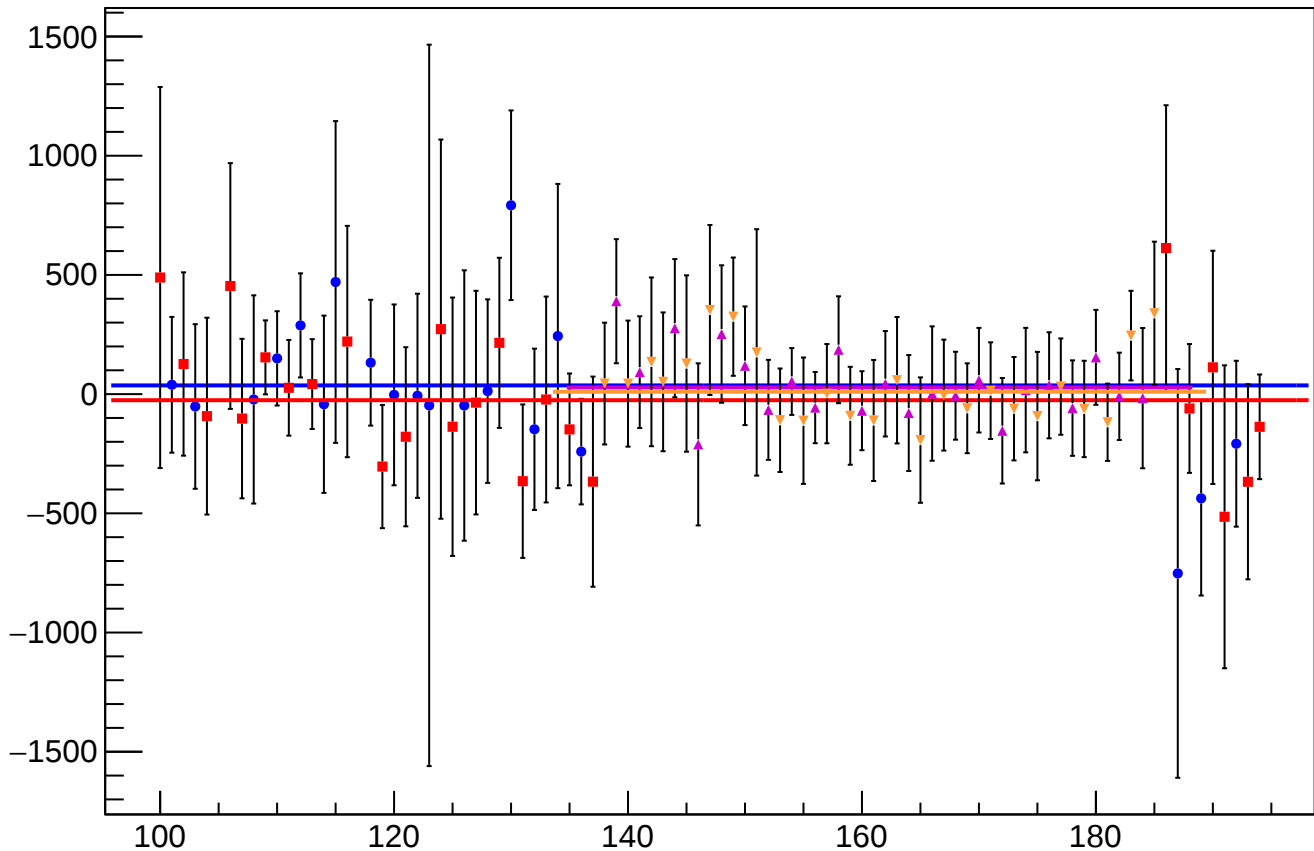
Right: 150.404 $\pm$ 0.026 χ^2/NDF : 2909737.3/44

In: 168.940 $\pm$ 0.025 χ^2/NDF :2661037.0/42

Out: 169.634 $\pm$ 0.023 χ^2/NDF :3392848.0/49

All: 169.306 $\pm$ 0.017 χ^2/NDF : 6054304.8/92

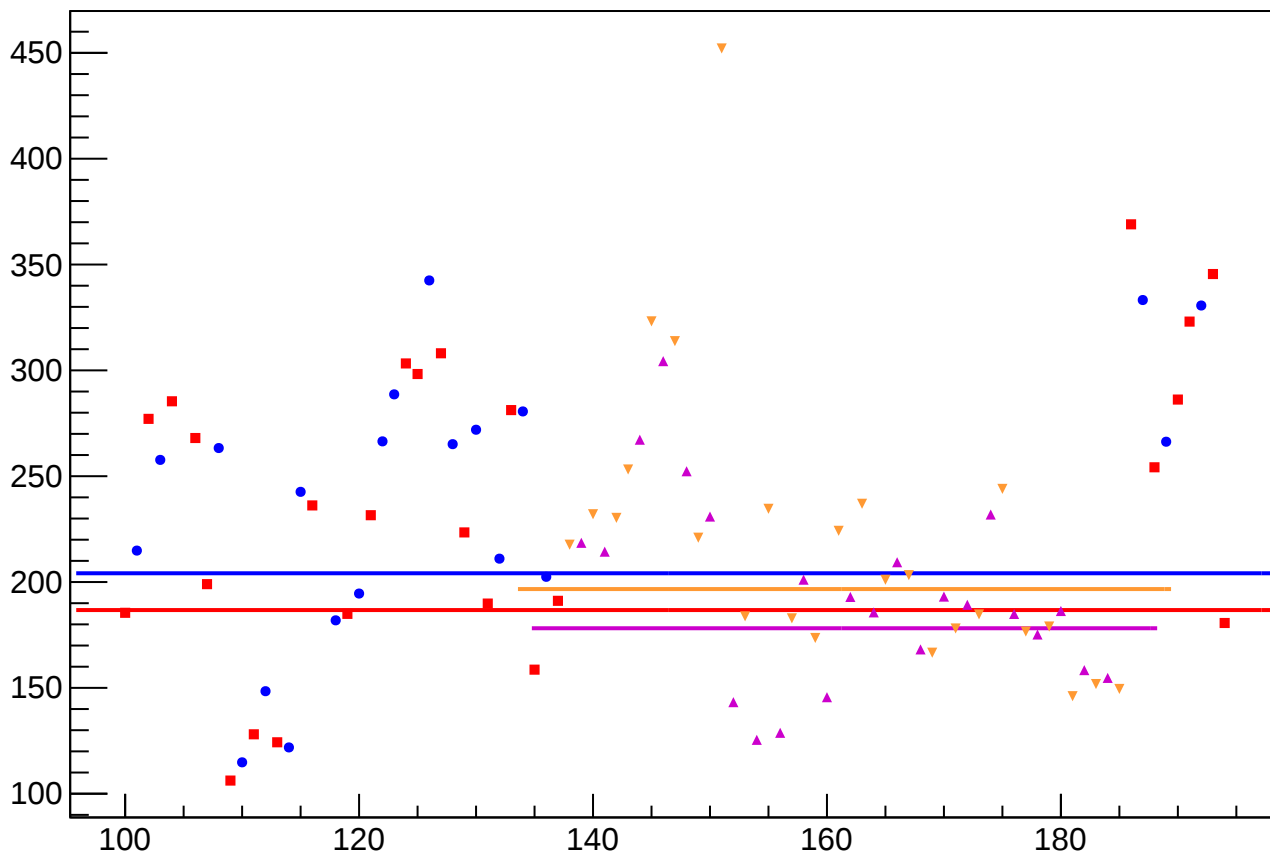
asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 36.546 $\pm$ 76.128 χ^2 /NDF: 10.7/19
 Left Out: 10.078 $\pm$ 47.488 χ^2 /NDF:8.5/24
 Right Out: -25.480 $\pm$ 62.831 χ^2 /NDF: 10.0/24
 Left In: 28.050 $\pm$ 44.573 χ^2 /NDF:7.0/22

Left: 19.632 $\pm$ 32.499 χ^2 /NDF: 15.5/47
 Right: -0.349 $\pm$ 48.458 χ^2 /NDF: 21.1/44
 In: 30.219 $\pm$ 38.465 χ^2 /NDF:17.6/42
 Out: -2.850 $\pm$ 37.885 χ^2 /NDF:18.7/49
 All: 13.433 $\pm$ 26.991 χ^2 /NDF: 36.7/92

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 204.142 $\pm$ 0.054 χ^2 /NDF: 1407458.4/19

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 186.761 $\pm$ 0.044 χ^2 /NDF: 2450506.1/24

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

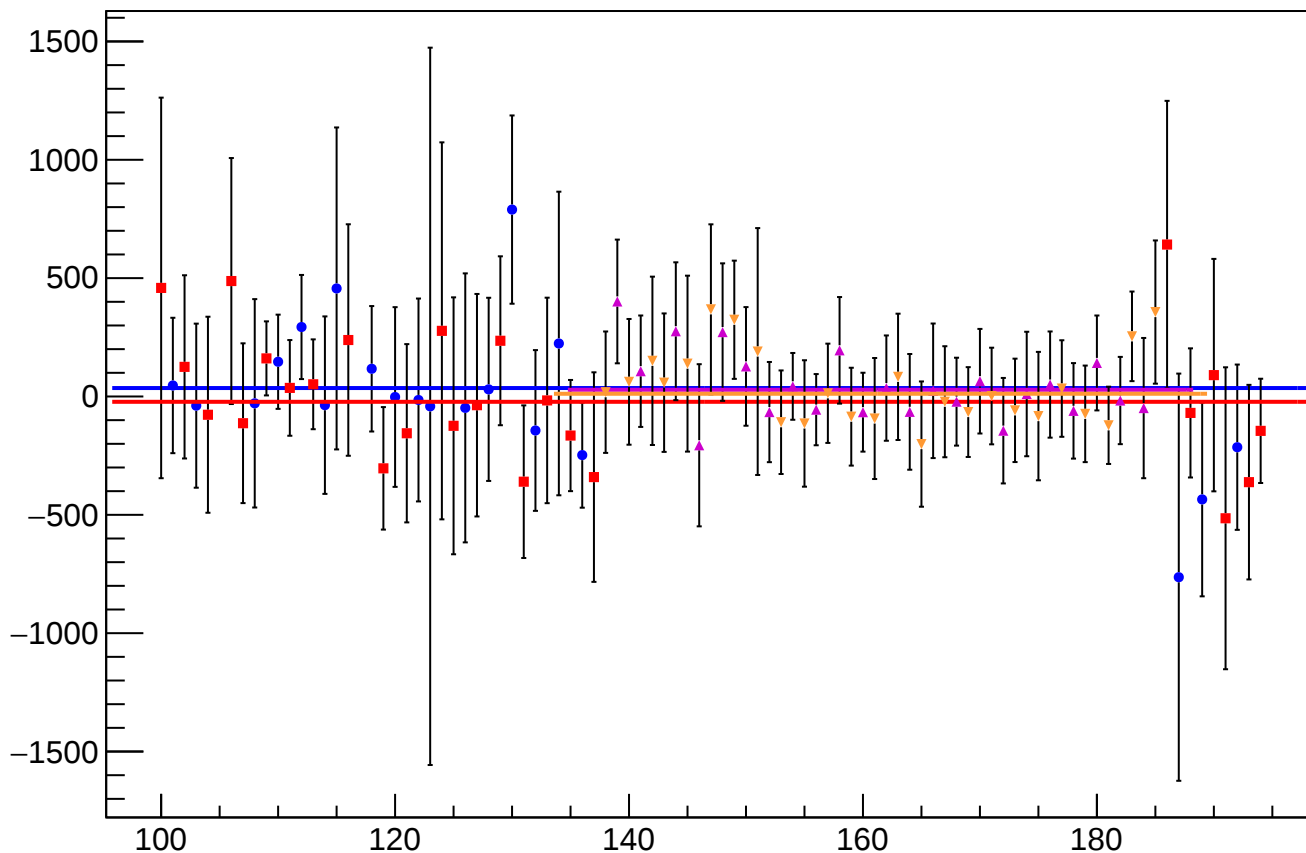
Right: 193.803 $\pm$ 0.034 χ^2 /NDF: 3919973.1/44

In: 184.797 $\pm$ 0.027 χ^2 /NDF:3199836.6/42

Out: 193.075 $\pm$ 0.027 χ^2 /NDF:4264953.6/49

All: 188.999 $\pm$ 0.019 χ^2 /NDF: 7511808.2/92

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 35.674 ± 76.492 $\chi^2/\text{NDF}: 10.6/19$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -22.459 ± 63.170 $\chi^2/\text{NDF}: 10.3/24$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

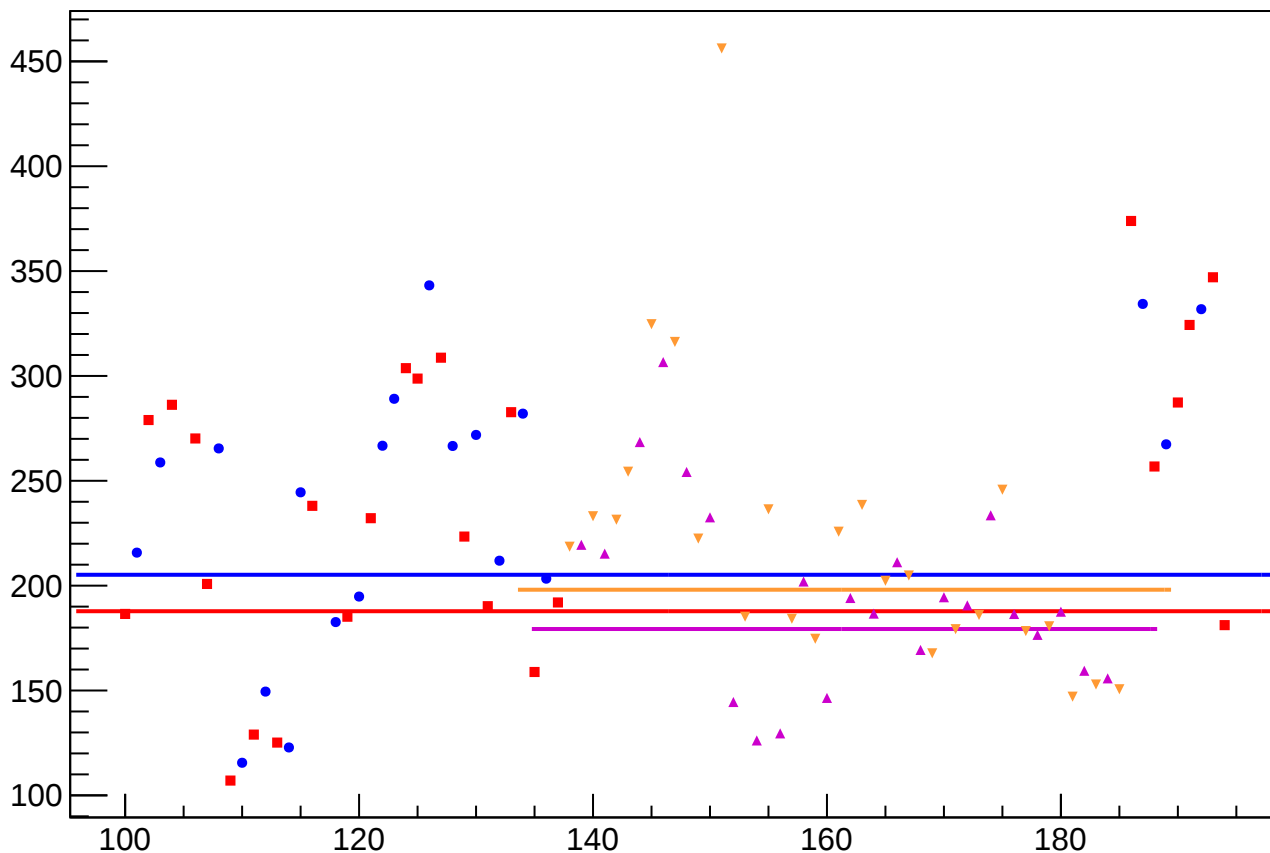
Right: 1.112 ± 48.708 $\chi^2/\text{NDF}: 21.2/44$

In: 30.172 ± 38.698 $\chi^2/\text{NDF}: 17.7/42$

Out: -0.884 ± 38.127 $\chi^2/\text{NDF}: 19.3/49$

All: 14.413 ± 27.160 $\chi^2/\text{NDF}: 37.4/92$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 205.187 $\pm$ 0.054 χ^2 /NDF: 1396988.4/19

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF:1778526.5/24

Right Out: 187.808 $\pm$ 0.045 χ^2 /NDF: 2442661.2/24

Left In: 179.324 $\pm$ 0.032 χ^2 /NDF:1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2 /NDF: 3560073.1/47

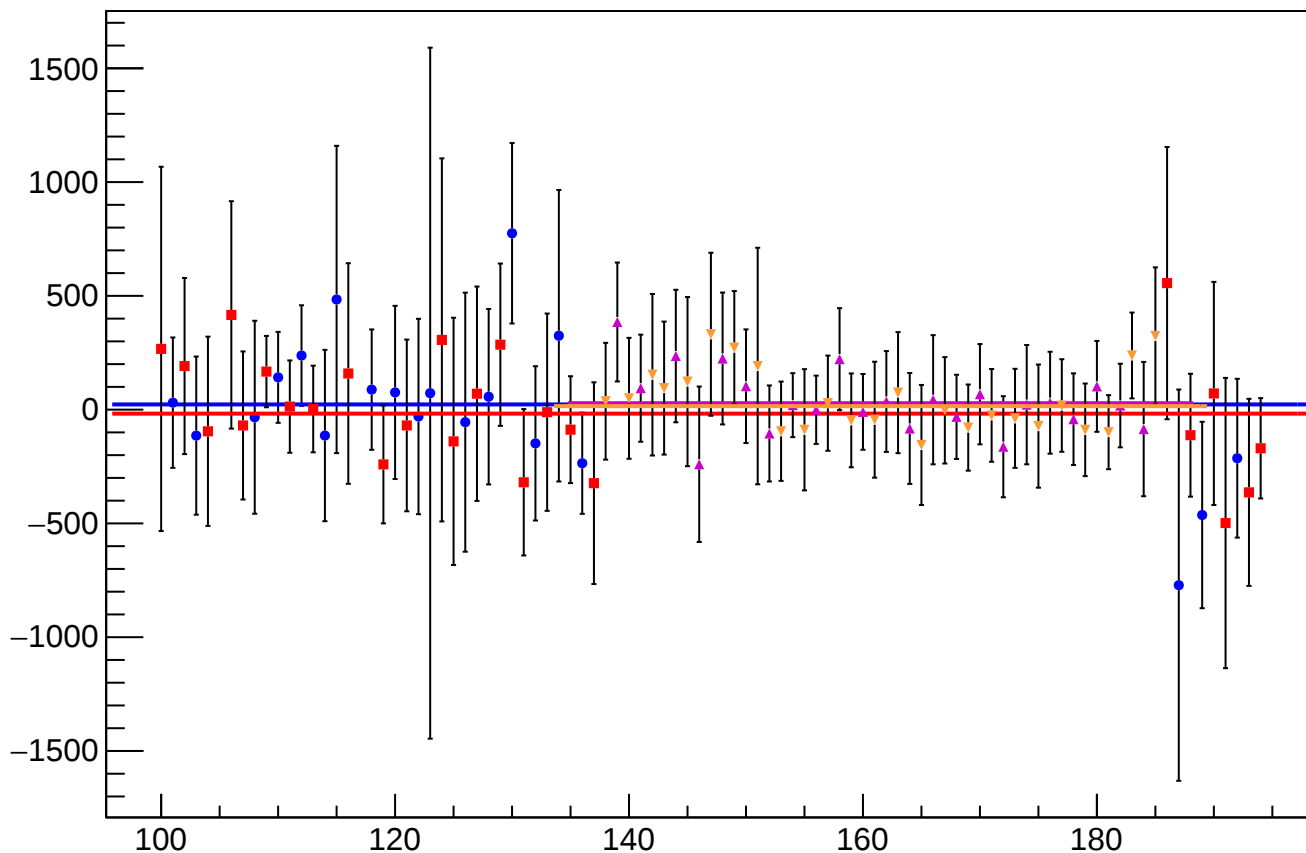
Right: 194.854 $\pm$ 0.034 χ^2 /NDF: 3901026.6/44

In: 185.943 $\pm$ 0.027 χ^2 /NDF:3185371.4/42

Out: 194.325 $\pm$ 0.027 χ^2 /NDF:4254669.6/49

All: 190.196 $\pm$ 0.019 χ^2 /NDF: 7487645.0/92

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 22.894 $\pm$ 76.487 χ^2 /NDF: 10.3/19

Left Out: 15.437 $\pm$ 47.695 χ^2 /NDF:7.0/24

Right Out: -17.535 $\pm$ 63.072 χ^2 /NDF: 8.8/24

Left In: 28.277 $\pm$ 44.743 χ^2 /NDF:6.4/22

Left: 22.267 $\pm$ 32.632 χ^2 /NDF: 13.4/47

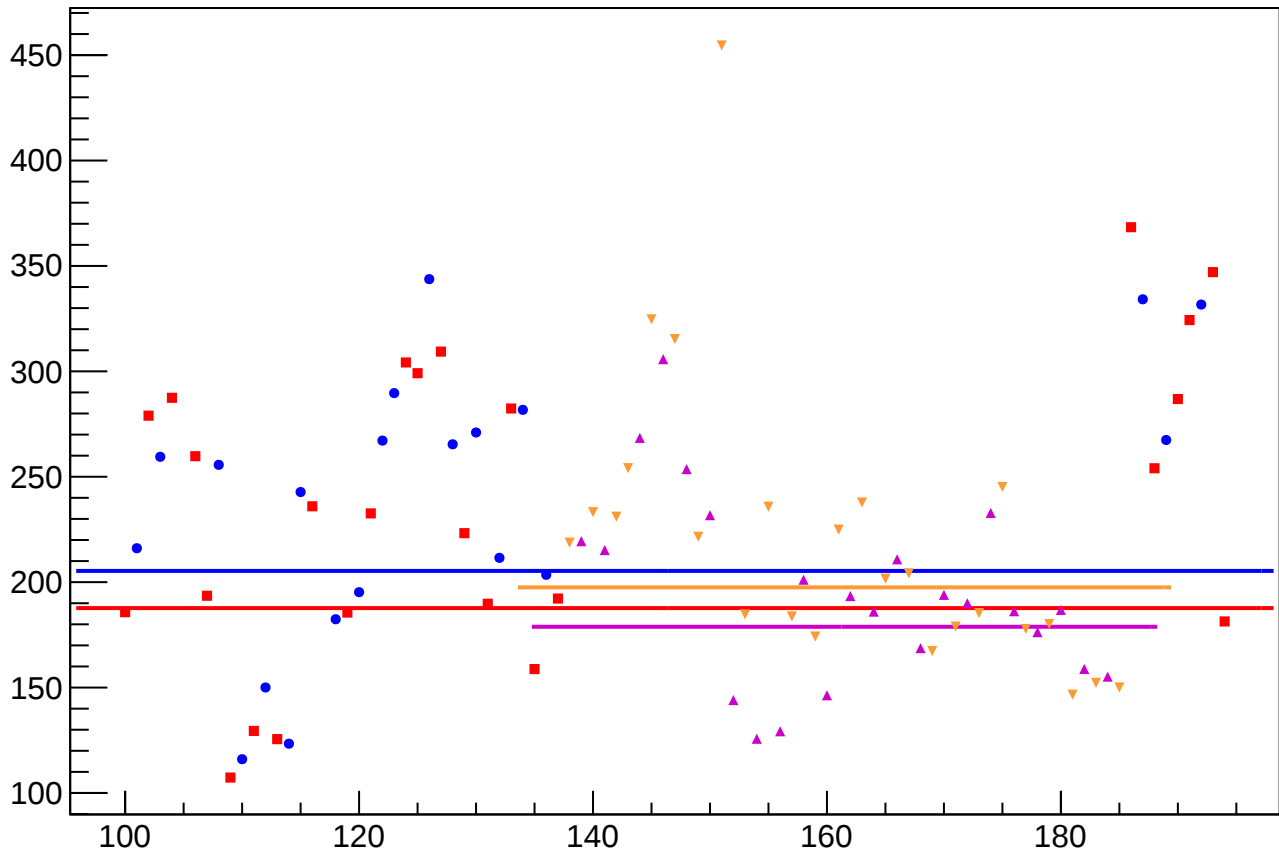
Right: -1.171 $\pm$ 48.662 χ^2 /NDF: 19.3/44

In: 26.904 $\pm$ 38.621 χ^2 /NDF:16.7/42

Out: 3.442 $\pm$ 38.042 χ^2 /NDF:15.9/49

All: 14.996 $\pm$ 27.102 χ^2 /NDF: 32.8/92

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 205.335 $\pm$ 0.054 χ^2/NDF : 1373516.5/19

Left Out: 197.527 $\pm$ 0.034 χ^2/NDF :1784225.5/24

Right Out: 187.699 $\pm$ 0.045 χ^2/NDF : 2406198.7/24

Left In: 178.836 $\pm$ 0.032 χ^2/NDF :1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2/NDF : 3569877.1/47

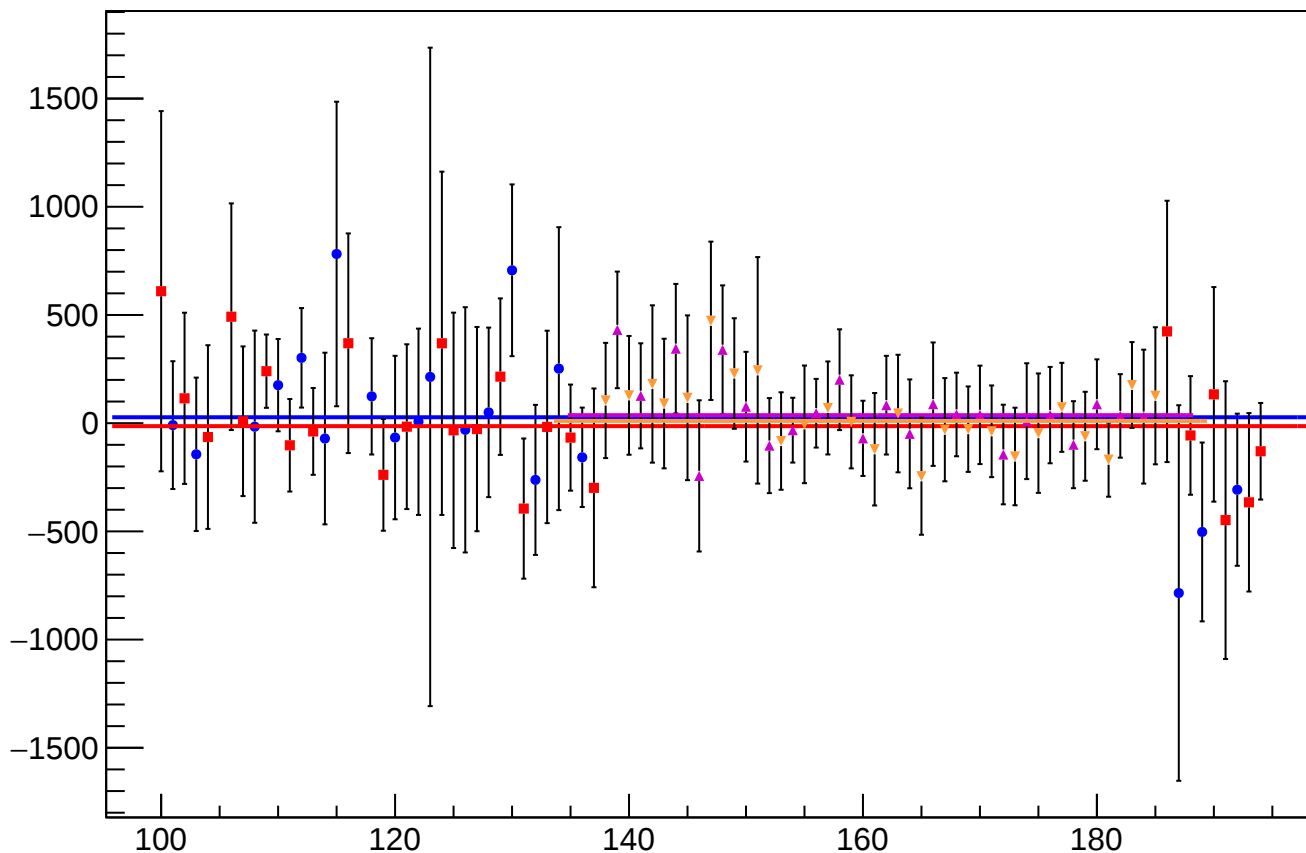
Right: 194.837 $\pm$ 0.034 χ^2/NDF : 3843003.3/44

In: 185.592 $\pm$ 0.027 χ^2/NDF :3174634.5/42

Out: 193.952 $\pm$ 0.027 χ^2/NDF :4221319.9/49

All: 189.835 $\pm$ 0.019 χ^2/NDF : 7443520.1/92

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 27.356 $\pm$ 78.727 χ^2 /NDF: 11.4/19

Left Out: 10.534 $\pm$ 49.197 χ^2 /NDF:7.5/24

Right Out: -13.690 $\pm$ 65.322 χ^2 /NDF: 9.9/24

Left In: 37.000 $\pm$ 46.358 χ^2 /NDF:7.9/22

Left: 24.553 $\pm$ 33.739 χ^2 /NDF: 15.5/47

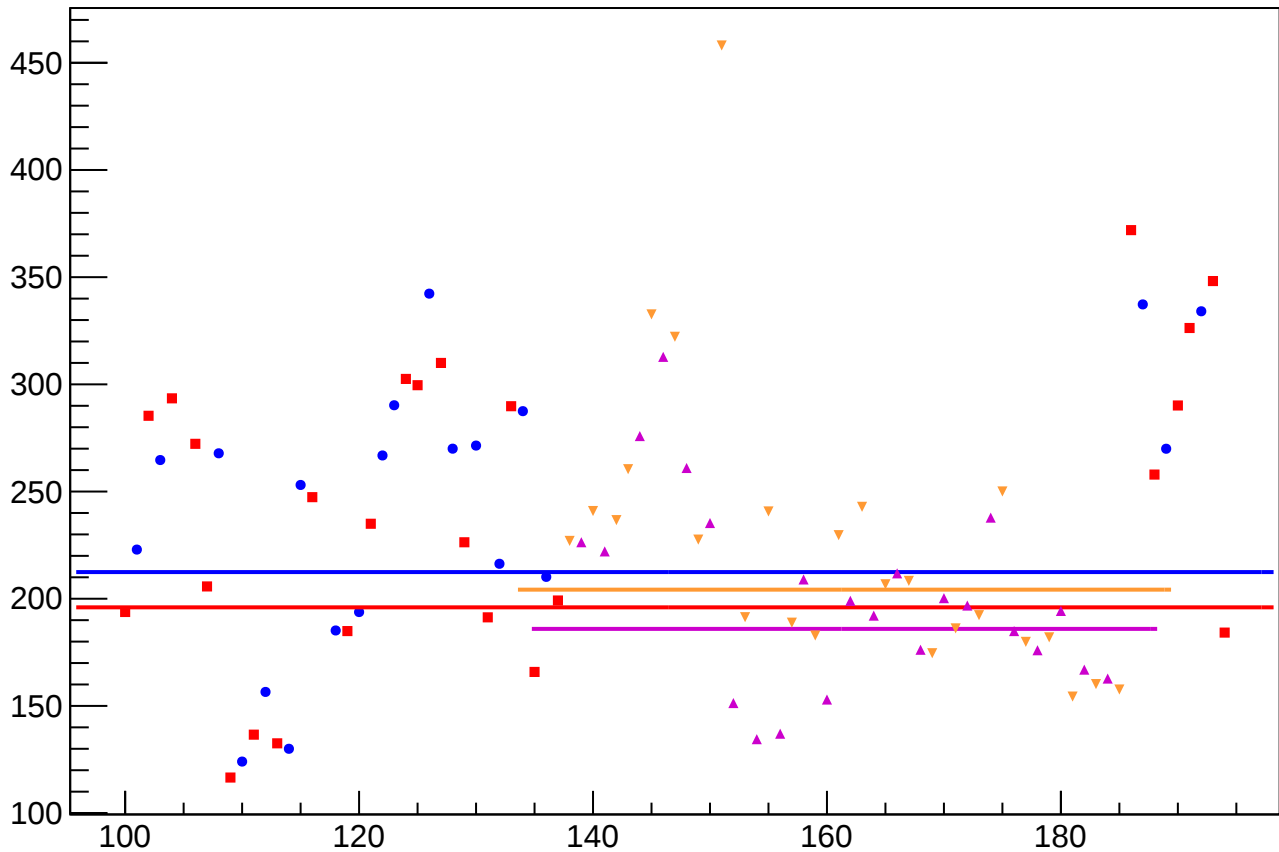
Right: 3.046 $\pm$ 50.271 χ^2 /NDF: 21.5/44

In: 34.517 $\pm$ 39.947 χ^2 /NDF:19.3/42

Out: 1.767 $\pm$ 39.298 χ^2 /NDF:17.5/49

All: 17.874 $\pm$ 28.014 χ^2 /NDF: 37.1/92

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 212.433 ± 0.056 $\chi^2/\text{NDF}: 1233743.9/19$

Left Out: 204.236 ± 0.035 $\chi^2/\text{NDF}: 1675666.0/24$

Right Out: 195.983 ± 0.046 $\chi^2/\text{NDF}: 2154673.4/24$

Left In: 185.931 ± 0.033 $\chi^2/\text{NDF}: 1460065.0/22$

Left: 194.540 ± 0.024 $\chi^2/\text{NDF}: 3282383.3/47$

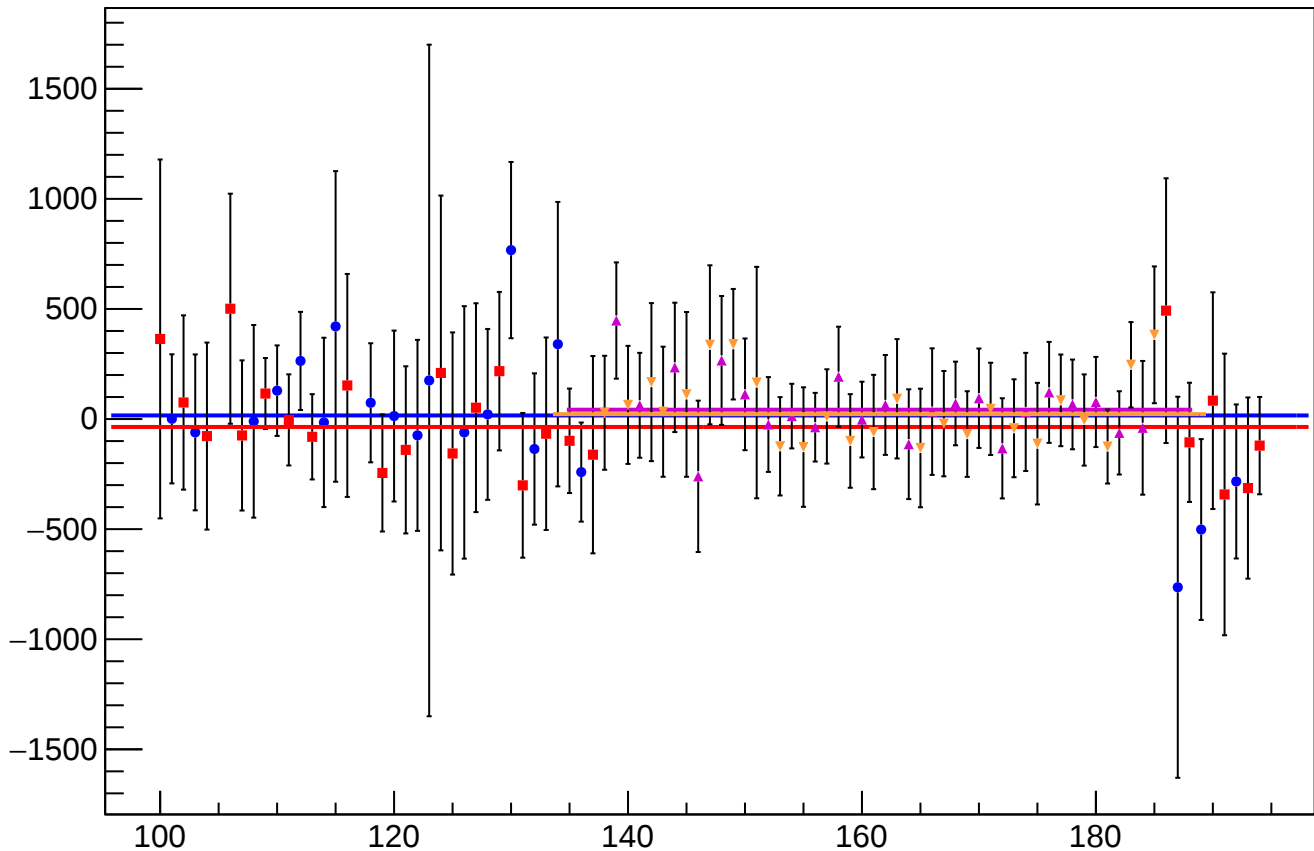
Right: 202.690 ± 0.036 $\chi^2/\text{NDF}: 3440133.6/44$

In: 192.755 ± 0.028 $\chi^2/\text{NDF}: 2862094.2/42$

Out: 201.249 ± 0.028 $\chi^2/\text{NDF}: 3850709.2/49$

All: 197.071 ± 0.020 $\chi^2/\text{NDF}: 6758760.3/92$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 16.345 $\pm$ 77.754 χ^2 /NDF: 10.5/19

Left Out: 22.189 $\pm$ 48.738 χ^2 /NDF:8.4/24

Right Out: -35.885 $\pm$ 64.188 χ^2 /NDF: 6.4/24

Left In: 42.446 $\pm$ 45.861 χ^2 /NDF:6.7/22

Left: 32.933 $\pm$ 33.399 χ^2 /NDF: 15.2/47

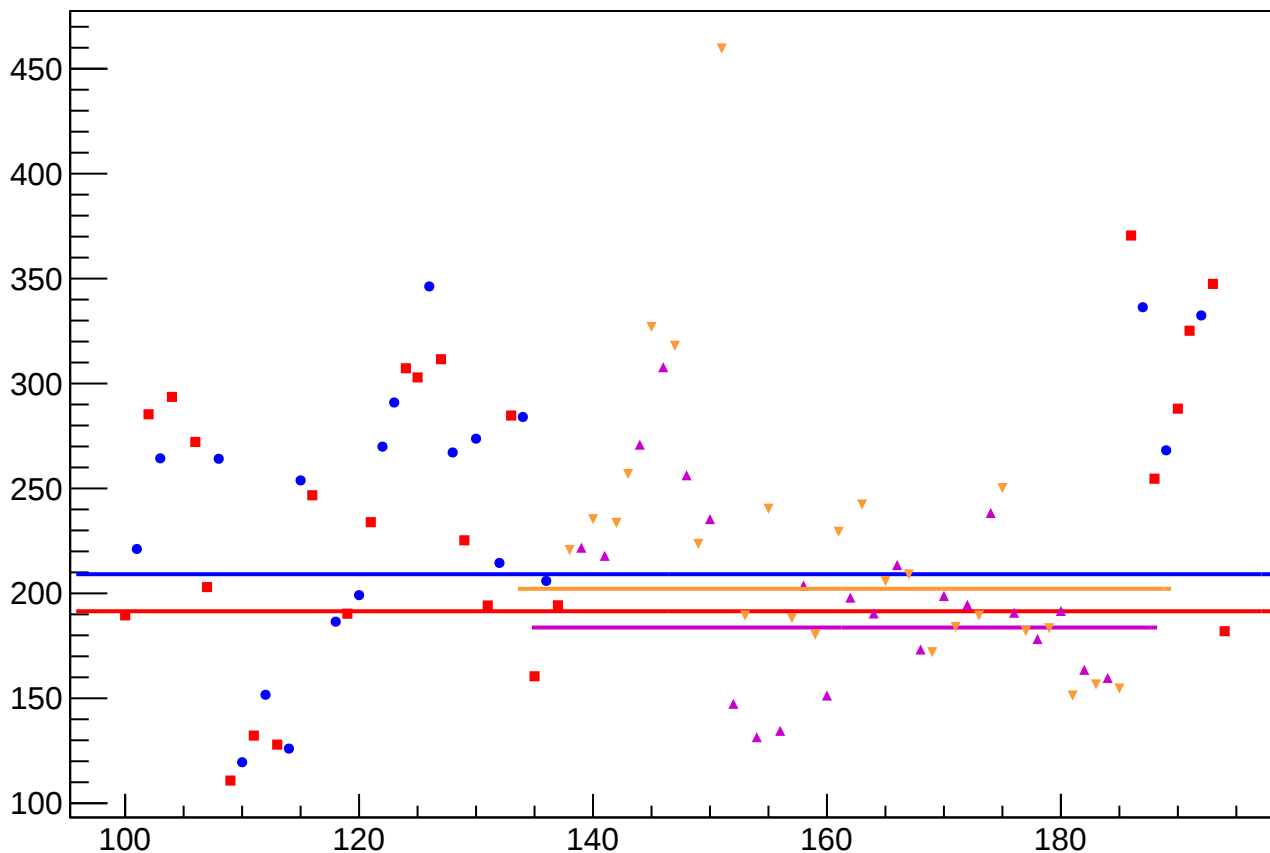
Right: -14.717 $\pm$ 49.500 χ^2 /NDF: 17.1/44

In: 35.710 $\pm$ 39.502 χ^2 /NDF:17.3/42

Out: 0.951 $\pm$ 38.817 χ^2 /NDF:15.3/49

All: 18.026 $\pm$ 27.686 χ^2 /NDF: 33.0/92

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 209.130 $\pm$ 0.055 χ^2/NDF : 1329976.1/19

Left Out: 202.186 $\pm$ 0.034 χ^2/NDF : 1696571.9/24

Right Out: 191.489 $\pm$ 0.045 χ^2/NDF : 2342785.0/24

Left In: 183.732 $\pm$ 0.032 χ^2/NDF : 1495930.4/22

Left: 192.398 $\pm$ 0.024 χ^2/NDF : 3344580.1/47

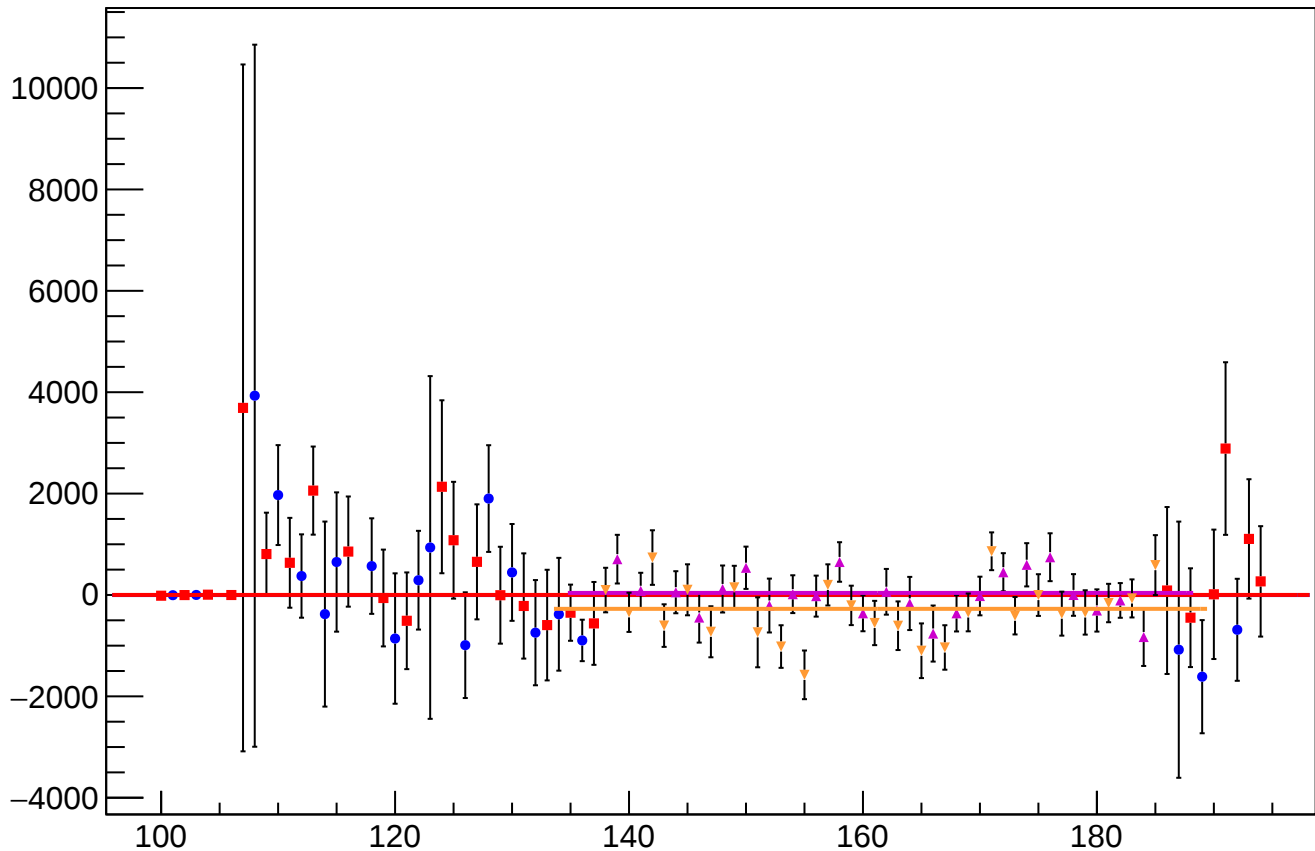
Right: 198.639 $\pm$ 0.035 χ^2/NDF : 3733983.2/44

In: 190.287 $\pm$ 0.028 χ^2/NDF : 2984220.6/42

Out: 198.274 $\pm$ 0.027 χ^2/NDF : 4074587.4/49

All: 194.351 $\pm$ 0.020 χ^2/NDF : 7100407.1/92

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.539 ± 2.251 χ^2/NDF : 19.6/19

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.738 ± 2.111 χ^2/NDF : 22.3/24

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

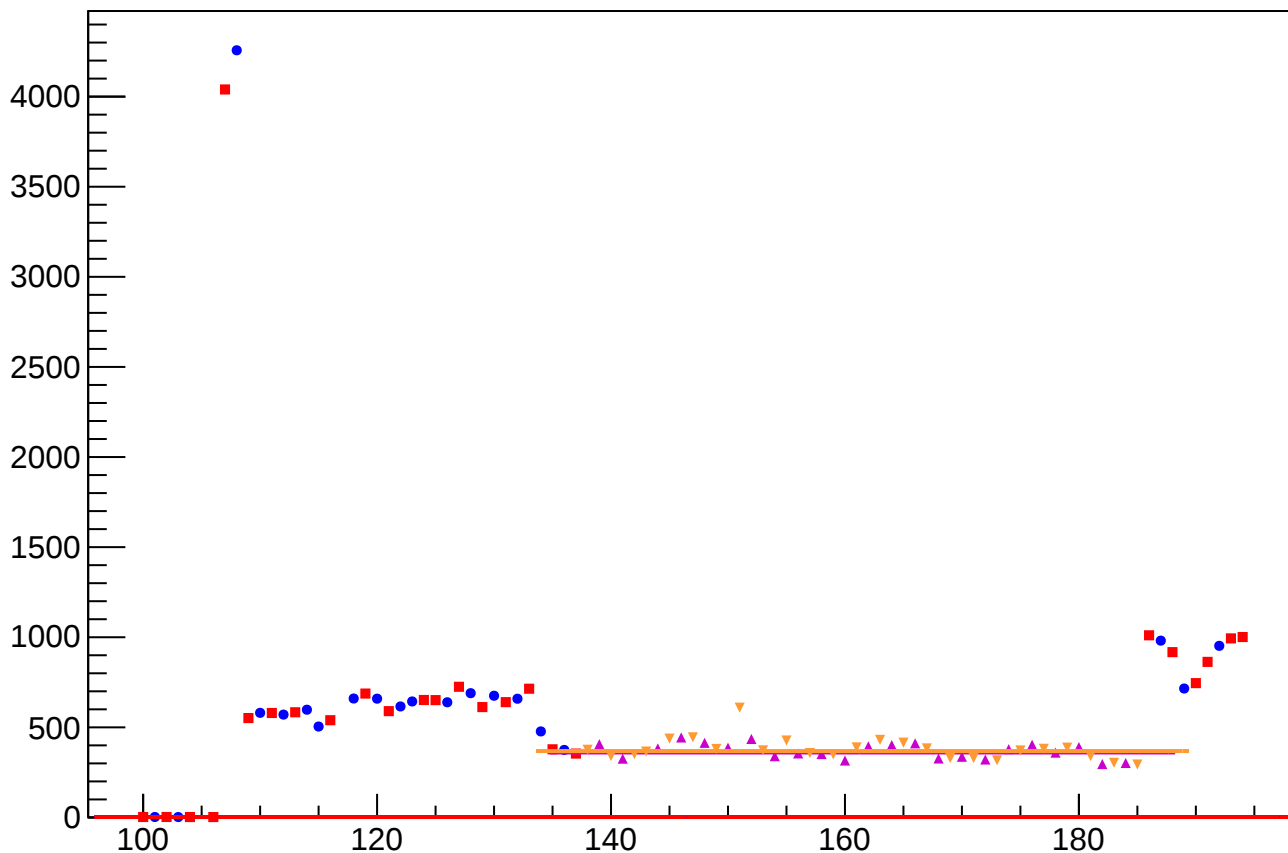
Right: -0.328 ± 1.540 χ^2/NDF : 42.4/44

In: -1.512 ± 2.251 χ^2/NDF : 40.0/42

Out: 0.576 ± 2.110 χ^2/NDF : 70.5/49

All: -0.401 ± 1.540 χ^2/NDF : 111.0/92

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.464 ± 0.002 χ^2/NDF : 13565549.8/19

Left Out: 368.500 ± 0.061 χ^2/NDF : 623011.6/24

Right Out: 2.453 ± 0.001 χ^2/NDF : 17895507.5/24

Left In: 360.571 ± 0.062 χ^2/NDF : 421995.5/22

Left: 364.563 ± 0.044 χ^2/NDF : 1053279.8/47

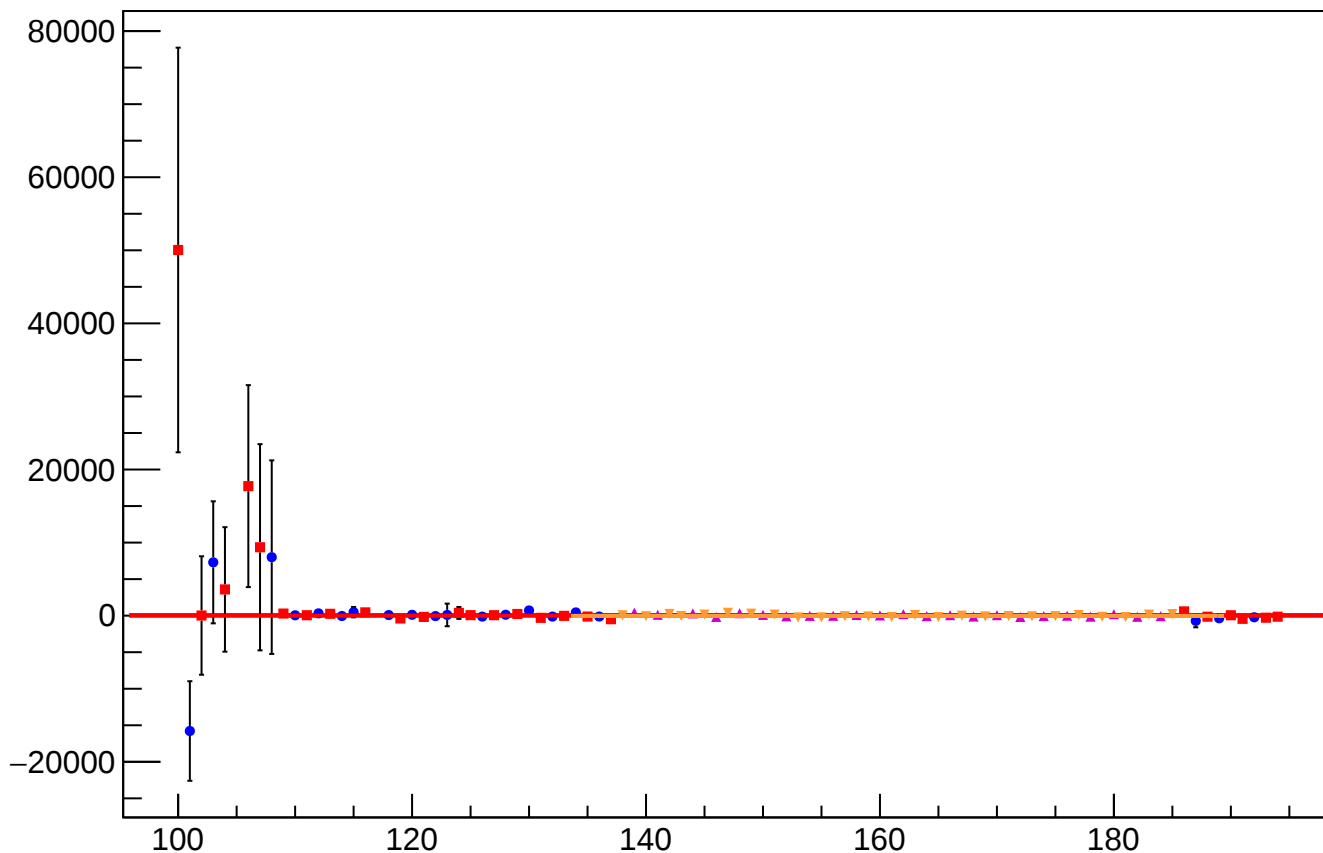
Right: 2.458 ± 0.001 χ^2/NDF : 31461085.4/44

In: 2.701 ± 0.002 χ^2/NDF : 47487972.3/42

Out: 2.669 ± 0.001 χ^2/NDF : 54009296.1/49

All: 2.684 ± 0.001 χ^2/NDF : 101497491.8/92

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 53.141 $\pm$ 86.788 χ^2 /NDF: 14.6/19

Left Out: -39.036 $\pm$ 49.576 χ^2 /NDF: 9.1/24

Right Out: 2.015 $\pm$ 73.560 χ^2 /NDF: 16.7/24

Left In: 28.062 $\pm$ 48.032 χ^2 /NDF: 9.6/22

Left: -4.426 $\pm$ 34.497 χ^2 /NDF: 19.7/47

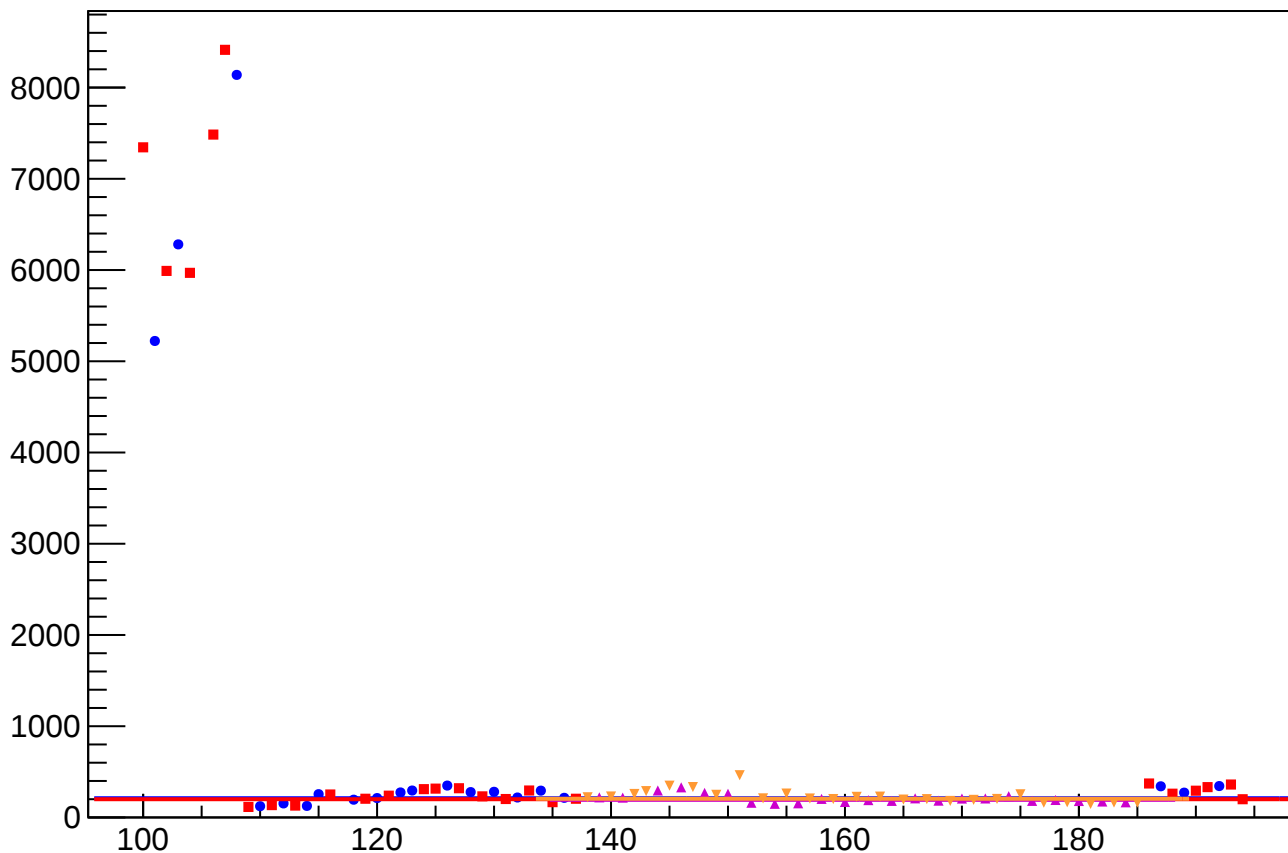
Right: 23.389 $\pm$ 56.115 χ^2 /NDF: 31.5/44

In: 33.942 $\pm$ 42.025 χ^2 /NDF: 24.2/42

Out: -26.214 $\pm$ 41.111 χ^2 /NDF: 26.1/49

All: 3.203 $\pm$ 29.388 χ^2 /NDF: 51.4/92

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 210.703+/-0.061 χ^2/NDF : 4099506.8/19

Left Out: 205.114+/-0.035 χ^2/NDF : 1957484.4/24

Right Out: 199.959+/-0.052 χ^2/NDF : 5123243.6/24

Left In: 193.616+/-0.034 χ^2/NDF : 1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

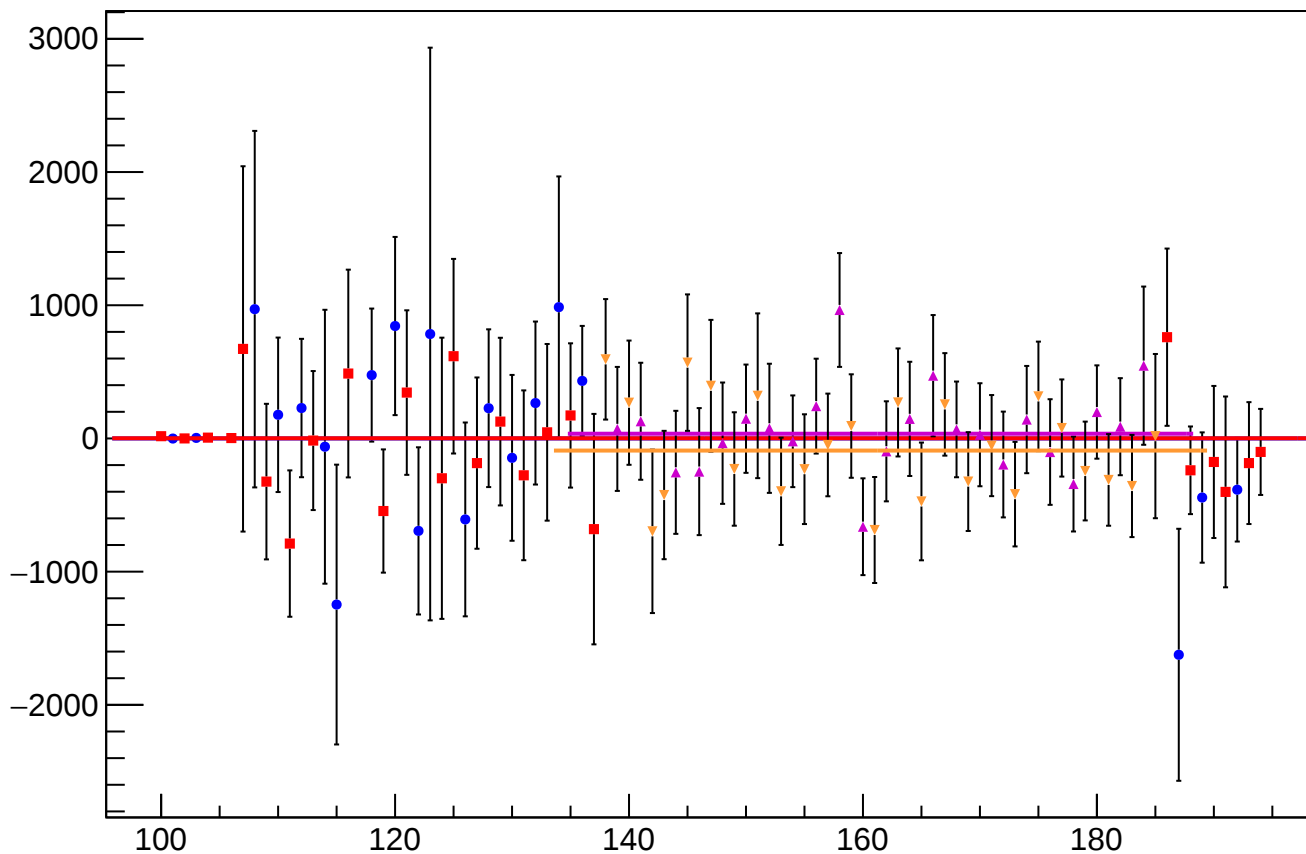
Right: 204.451+/-0.040 χ^2/NDF : 9240587.2/44

In: 197.623+/-0.030 χ^2/NDF : 5338324.1/42

Out: 203.504+/-0.029 χ^2/NDF : 7087481.7/49

All: 200.628+/-0.021 χ^2/NDF : 12445820.5/92

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.159 ± 1.737 χ^2/NDF : 14.9/19

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.313 ± 1.622 χ^2/NDF : 11.8/24

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

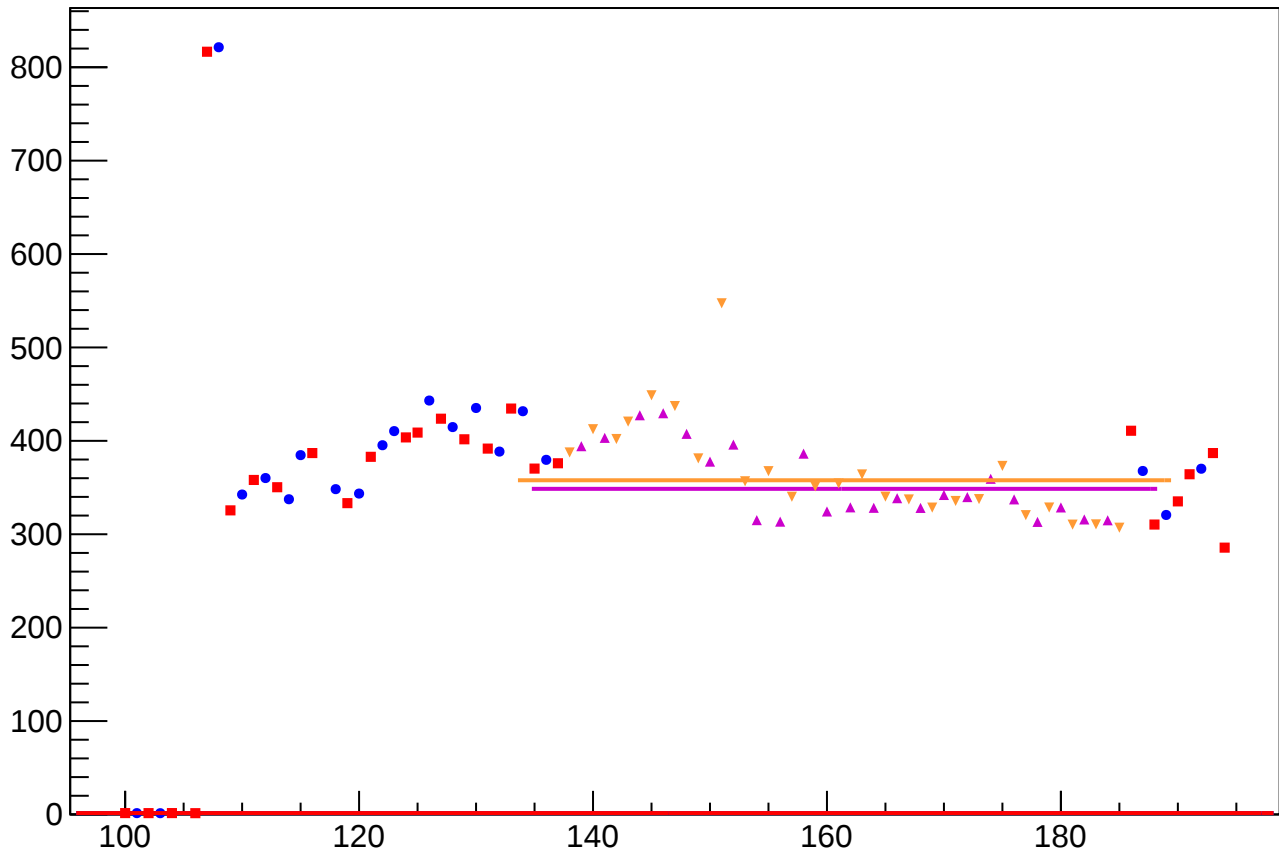
Right: 0.627 ± 1.186 χ^2/NDF : 27.0/44

In: -0.144 ± 1.736 χ^2/NDF : 28.5/42

Out: 1.279 ± 1.622 χ^2/NDF : 29.4/49

All: 0.615 ± 1.185 χ^2/NDF : 58.3/92

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.465 $\pm$ 0.001 χ^2 /NDF: 13718682.5/19

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.477 $\pm$ 0.001 χ^2 /NDF: 17516186.3/24

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF: 362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

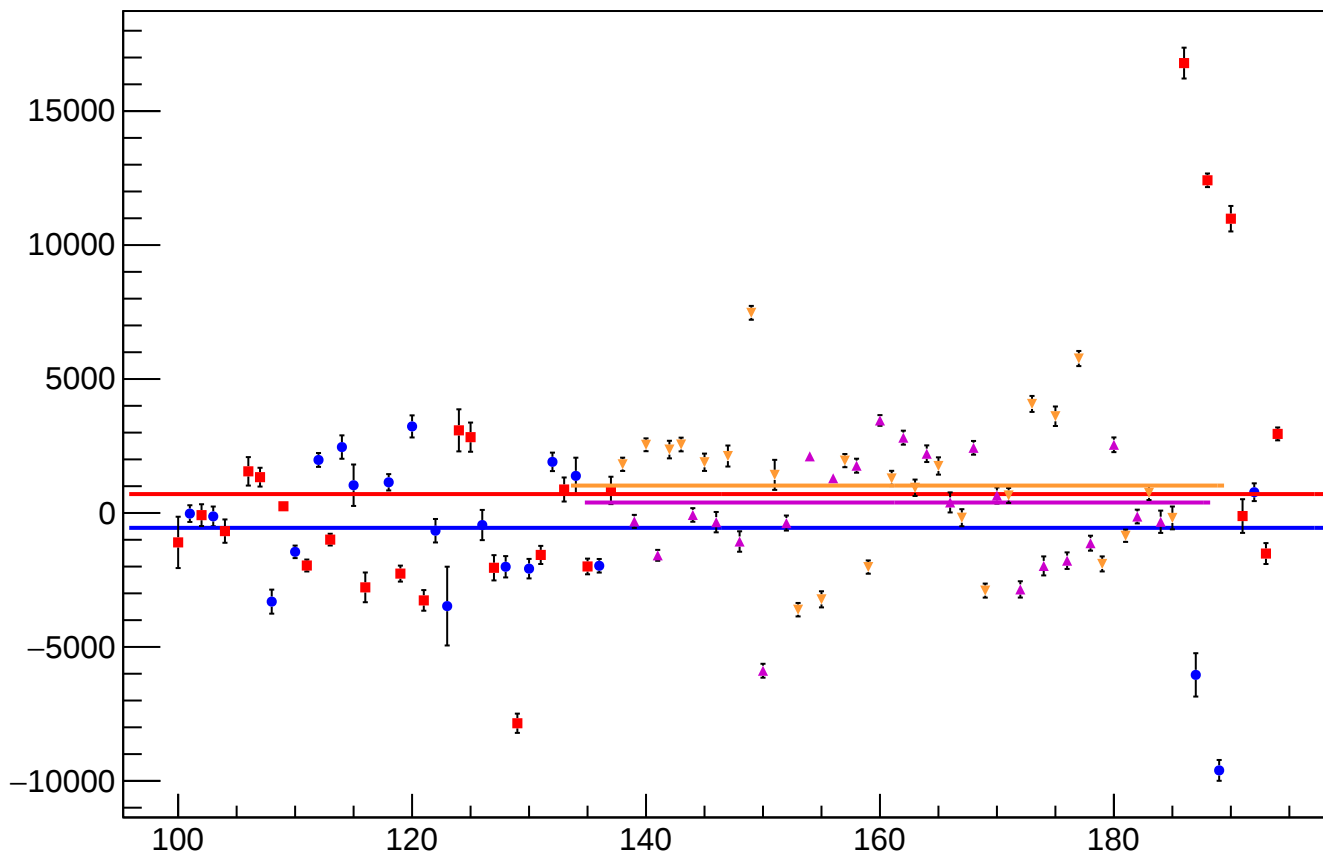
Right: 1.471 $\pm$ 0.001 χ^2 /NDF: 31234927.2/44

In: 1.612 $\pm$ 0.001 χ^2 /NDF: 47916355.5/42

Out: 1.610 $\pm$ 0.001 χ^2 /NDF: 53971501.9/49

All: 1.611 $\pm$ 0.001 χ^2 /NDF: 101887858.2/92

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -555.084+/-82.919 χ^2/NDF : 1049.5/19

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 705.662+/-68.731 χ^2/NDF : 4727.5/24

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

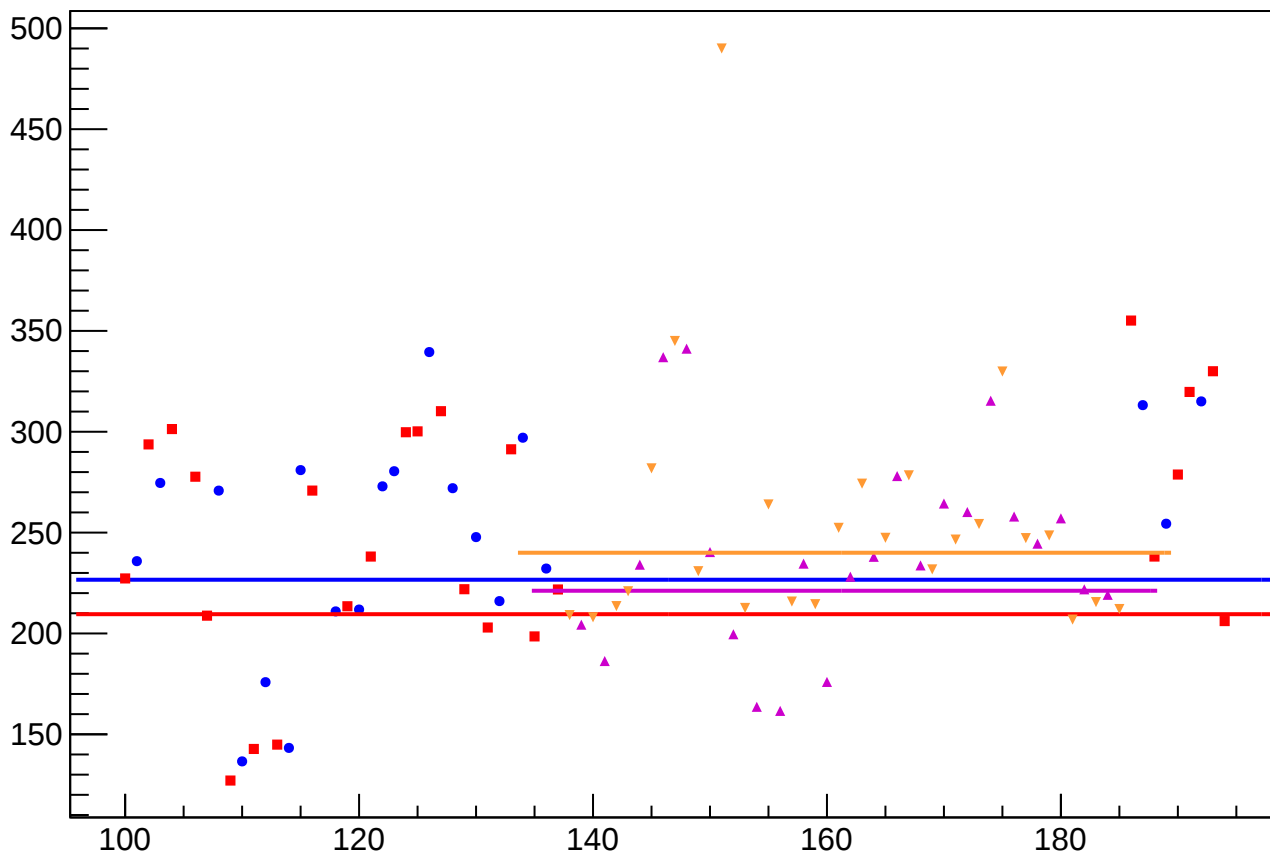
Right: 192.219+/-52.916 χ^2/NDF : 5914.0/44

In: 101.908+/-45.794 χ^2/NDF : 2724.7/42

Out: 893.036+/-44.029 χ^2/NDF : 7049.4/49

All: 513.015+/-31.739 χ^2/NDF : 9929.2/92

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 226.634 $\pm$ 0.059 χ^2/NDF : 856874.4/19

Left Out: 240.019 $\pm$ 0.041 χ^2/NDF :1002427.9/24

Right Out: 209.551 $\pm$ 0.049 χ^2/NDF : 1696414.6/24

Left In: 221.173 $\pm$ 0.039 χ^2/NDF :1342517.8/22

Left: 230.192 $\pm$ 0.028 χ^2/NDF : 2457612.6/47

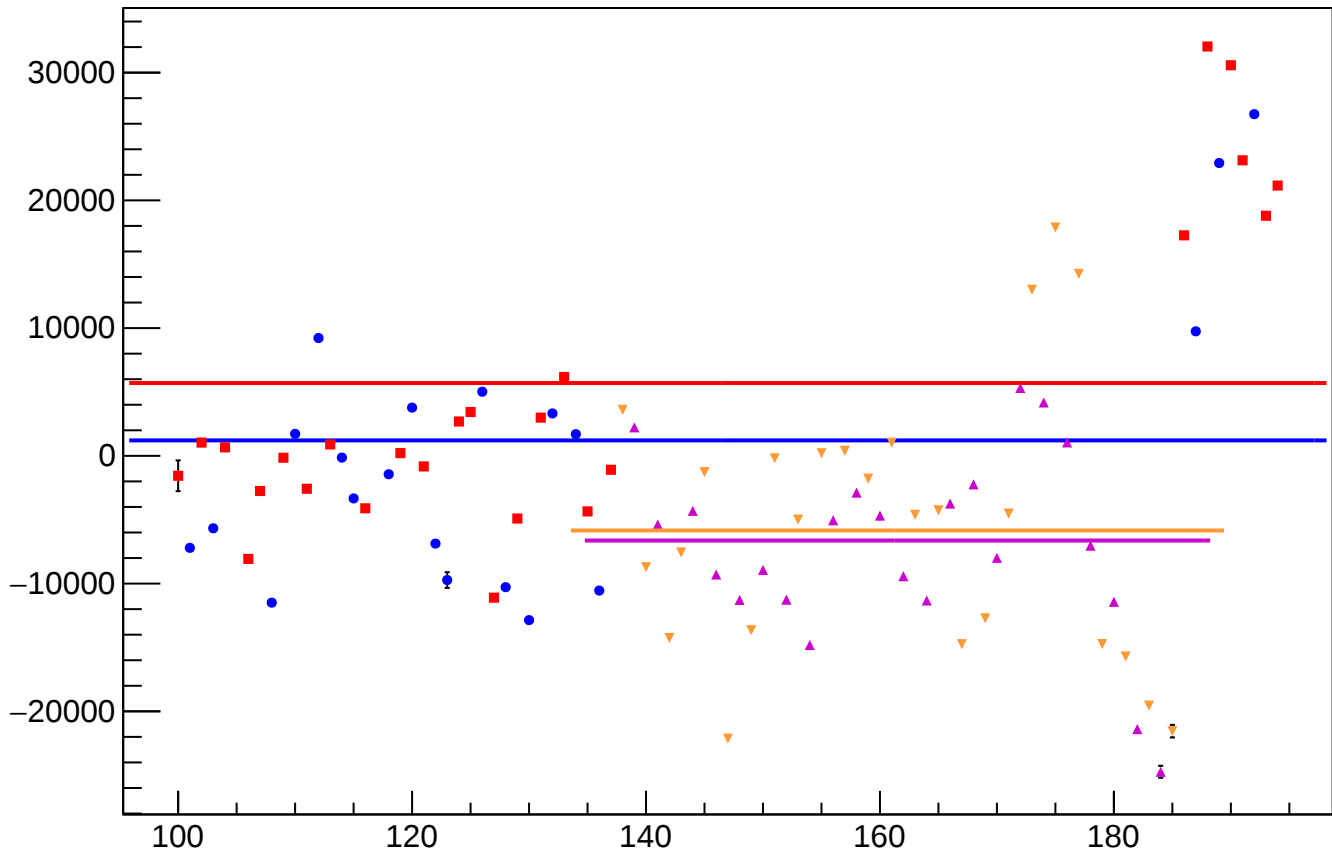
Right: 216.508 $\pm$ 0.037 χ^2/NDF : 2603604.9/44

In: 222.838 $\pm$ 0.032 χ^2/NDF :2205420.9/42

Out: 227.516 $\pm$ 0.031 χ^2/NDF :2930586.1/49

All: 225.269 $\pm$ 0.022 χ^2/NDF : 5146851.3/92

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1209.350 +/- 44.771 χ^2/NDF : 69865.6/19

Left Out: -5841.615 +/- 35.848 χ^2/NDF : 63397.3/24

Right Out: 5701.721 +/- 39.438 χ^2/NDF : 99789.9/24

Left In: -6628.388 +/- 37.160 χ^2/NDF : 21738.0/22

Left: -6220.862 +/- 25.800 χ^2/NDF : 85367.5/47

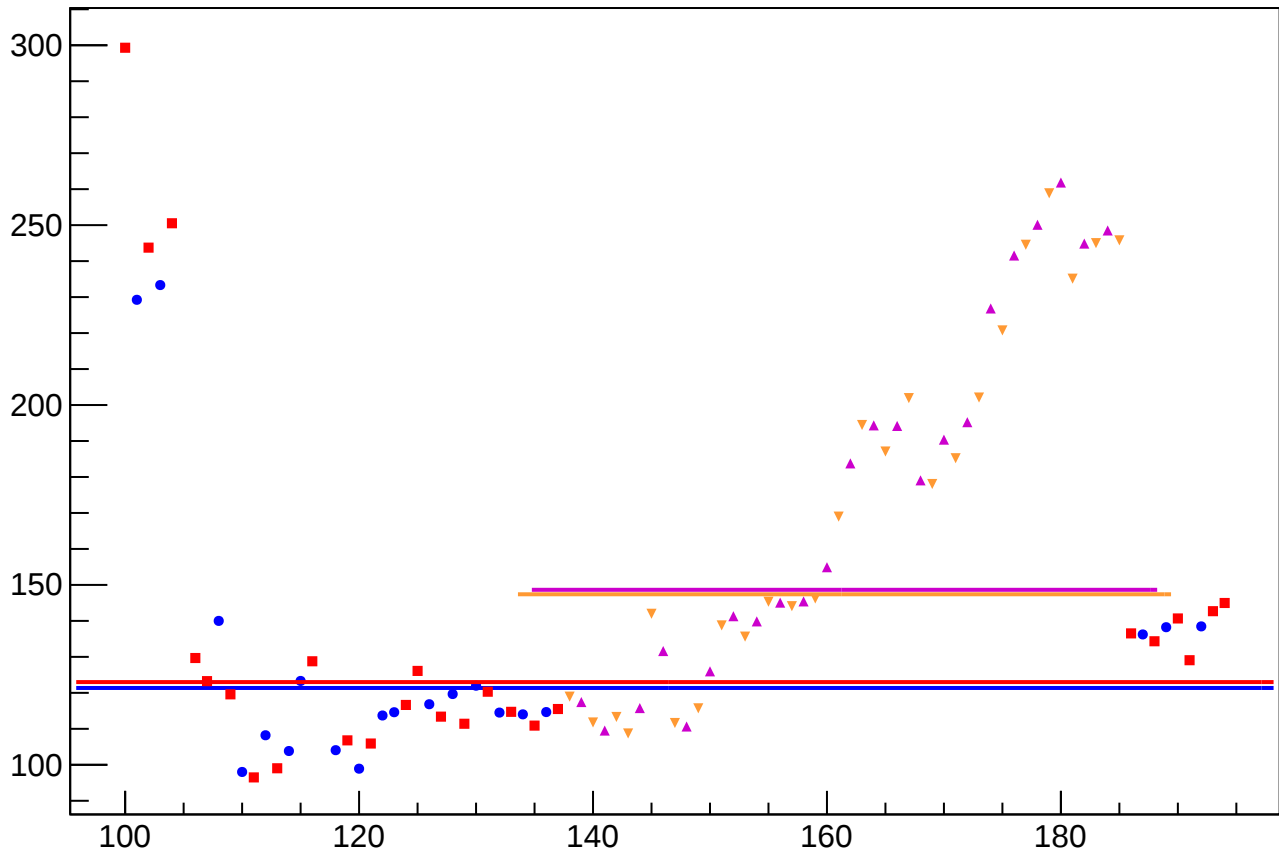
Right: 3738.949 +/- 29.594 χ^2/NDF : 175324.7/44

In: -3431.401 +/- 28.594 χ^2/NDF : 109749.5/42

Out: -619.132 +/- 26.527 χ^2/NDF : 210099.5/49

All: -1919.936 +/- 19.447 χ^2/NDF : 325047.8/9

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 121.357+/-0.032 χ^2/NDF : 688754.9/19

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 122.993+/-0.028 χ^2/NDF : 822386.7/24

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

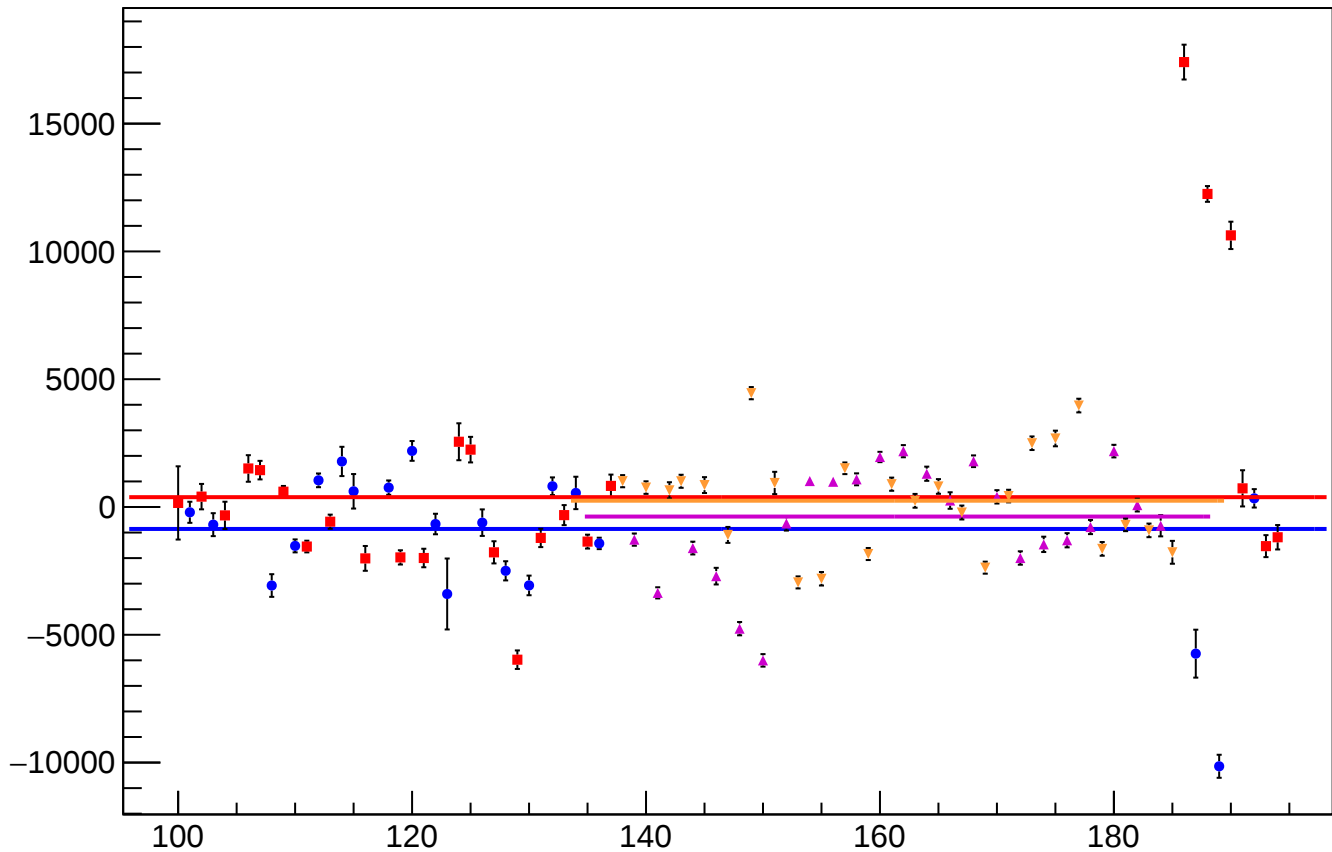
Right: 122.278+/-0.021 χ^2/NDF : 1512646.2/44

In: 137.512+/-0.020 χ^2/NDF : 3544125.3/42

Out: 136.356+/-0.019 χ^2/NDF : 3758806.3/49

All: 136.891+/-0.014 χ^2/NDF : 7304690.9/92

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -859.126+/-84.857 χ^2/NDF : 759.4/19

Left Out: 246.120+/-53.492 χ^2/NDF :1354.8/24

Right Out: 384.505+/-75.440 χ^2/NDF : 3160.1/24

Left In: -374.465+/-51.892 χ^2/NDF :1798.3/22

Left: -73.589+/-37.246 χ^2/NDF : 3222.4/47

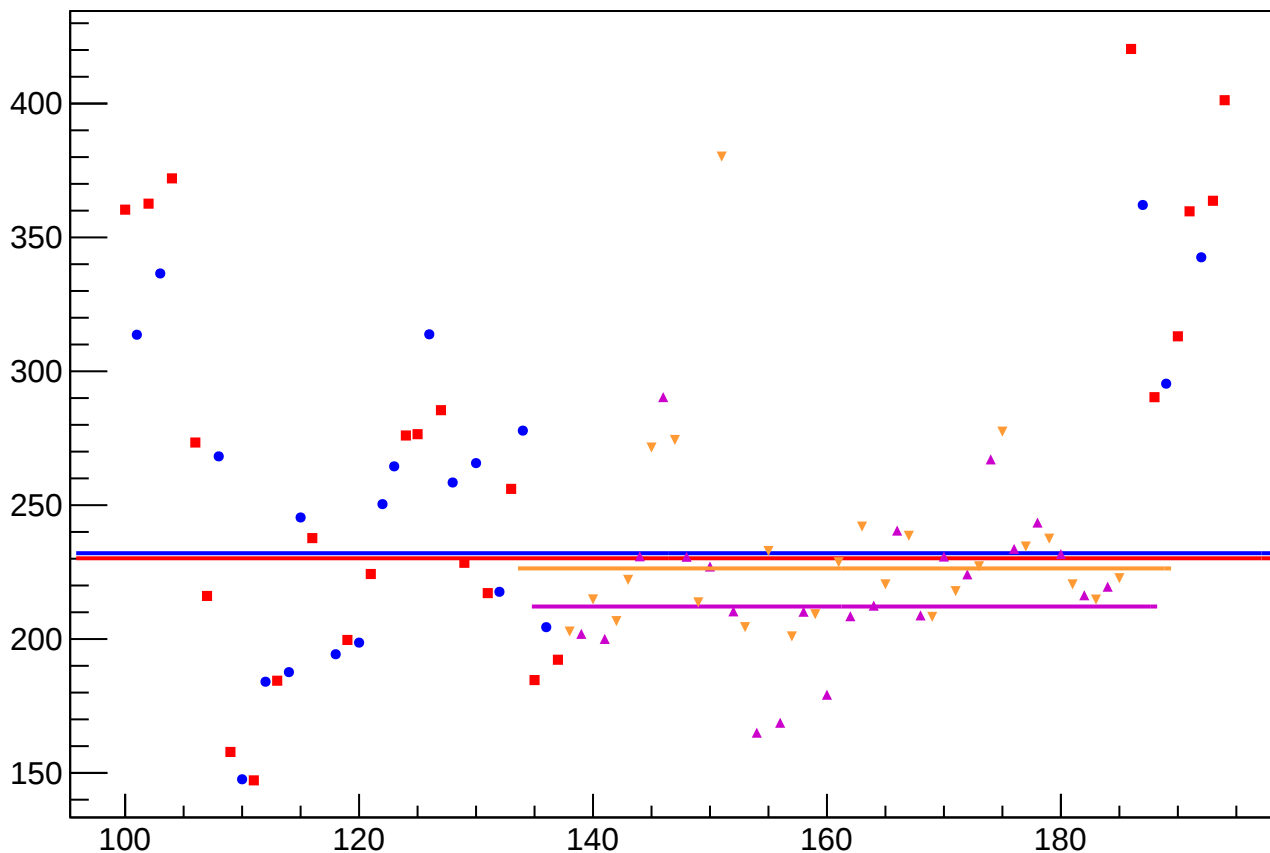
Right: -164.501+/-56.381 χ^2/NDF : 4039.4/44

In: -506.379+/-44.271 χ^2/NDF :2581.4/42

Out: 292.418+/-43.636 χ^2/NDF :4517.2/49

All: -101.210+/-31.077 χ^2/NDF : 7263.7/92

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 232.057 $\pm$ 0.060 χ^2/NDF : 939422.7/19

Left Out: 226.376 $\pm$ 0.038 χ^2/NDF : 521770.1/24

Right Out: 230.162 $\pm$ 0.053 χ^2/NDF : 1802261.6/24

Left In: 212.145 $\pm$ 0.037 χ^2/NDF : 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2/NDF : 1186390.8/47

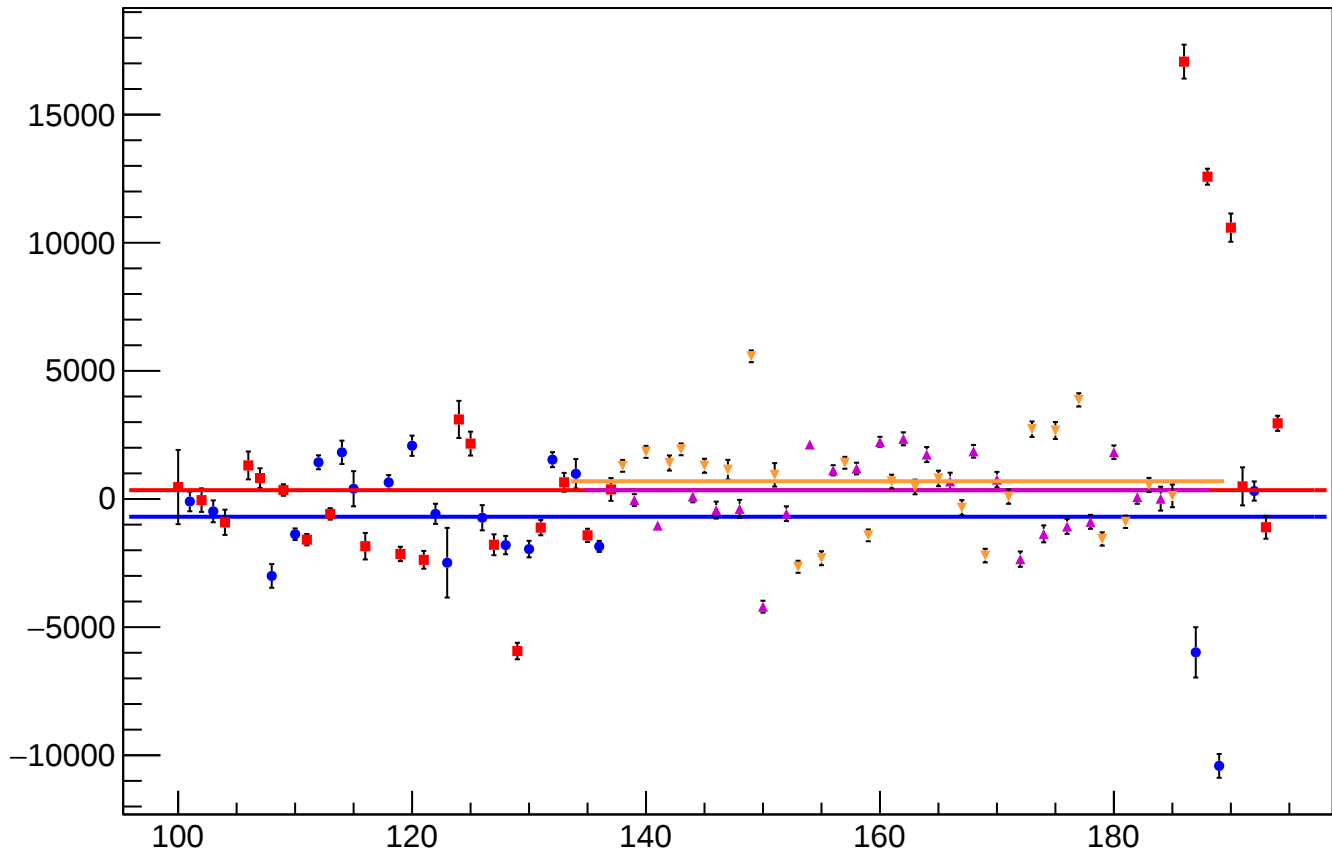
Right: 230.999 $\pm$ 0.040 χ^2/NDF : 2742241.6/44

In: 217.565 $\pm$ 0.031 χ^2/NDF : 1611275.7/42

Out: 227.642 $\pm$ 0.031 χ^2/NDF : 2327384.5/49

All: 222.676 $\pm$ 0.022 χ^2/NDF : 3991228.5/92

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -692.570 ± 80.855 $\chi^2/\text{NDF}: 798.0/19$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 345.382 ± 70.744 $\chi^2/\text{NDF}: 3382.2/24$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

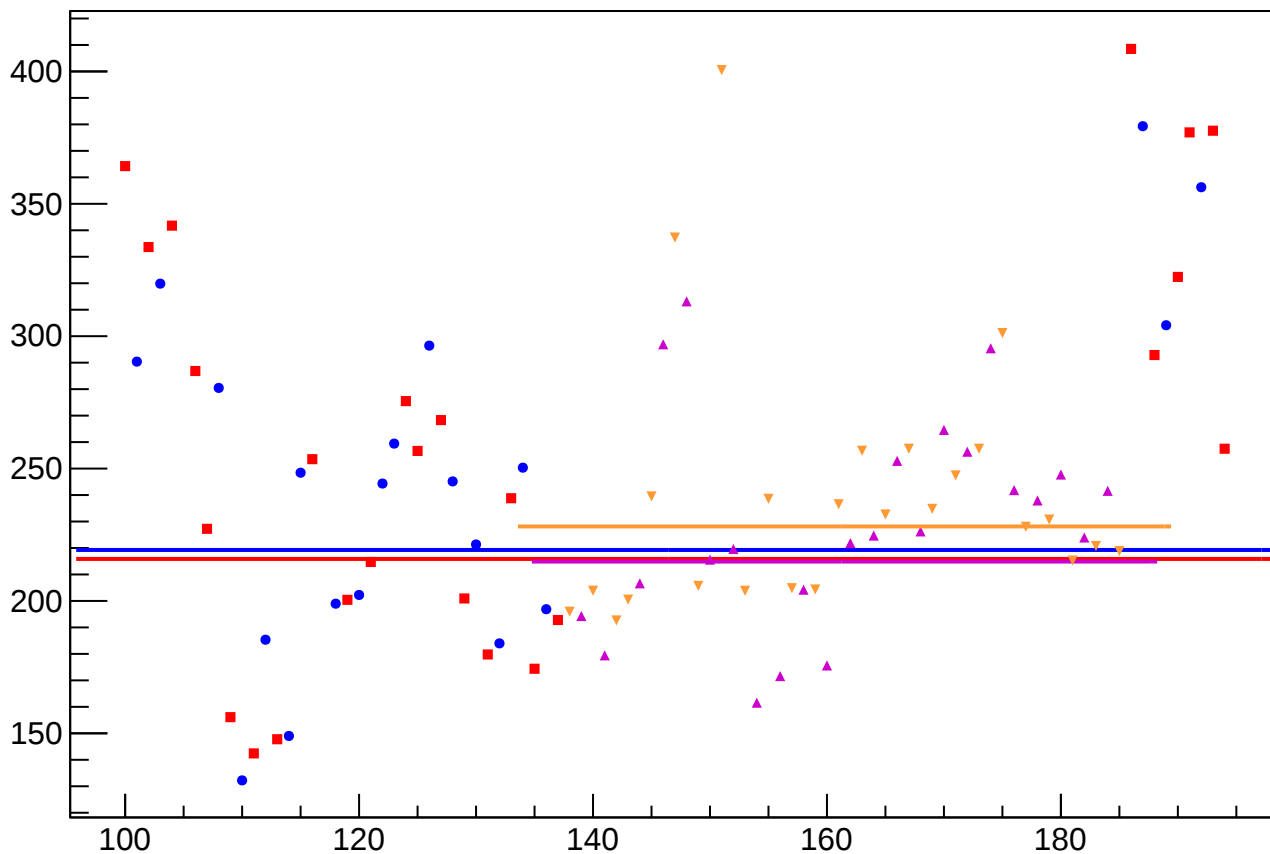
Right: -104.673 ± 53.242 $\chi^2/\text{NDF}: 4273.5/44$

In: 33.251 ± 44.299 $\chi^2/\text{NDF}: 1898.2/42$

Out: 565.122 ± 43.048 $\chi^2/\text{NDF}: 4819.6/49$

All: 306.806 ± 30.872 $\chi^2/\text{NDF}: 6791.9/92$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.259 ± 0.057 χ^2/NDF : 1119809.7/19

Left Out: 228.144 ± 0.038 χ^2/NDF : 828399.3/24

Right Out: 215.867 ± 0.050 χ^2/NDF : 1807750.8/24

Left In: 214.878 ± 0.037 χ^2/NDF : 1037509.6/22

Left: 221.351 ± 0.027 χ^2/NDF : 1927151.4/47

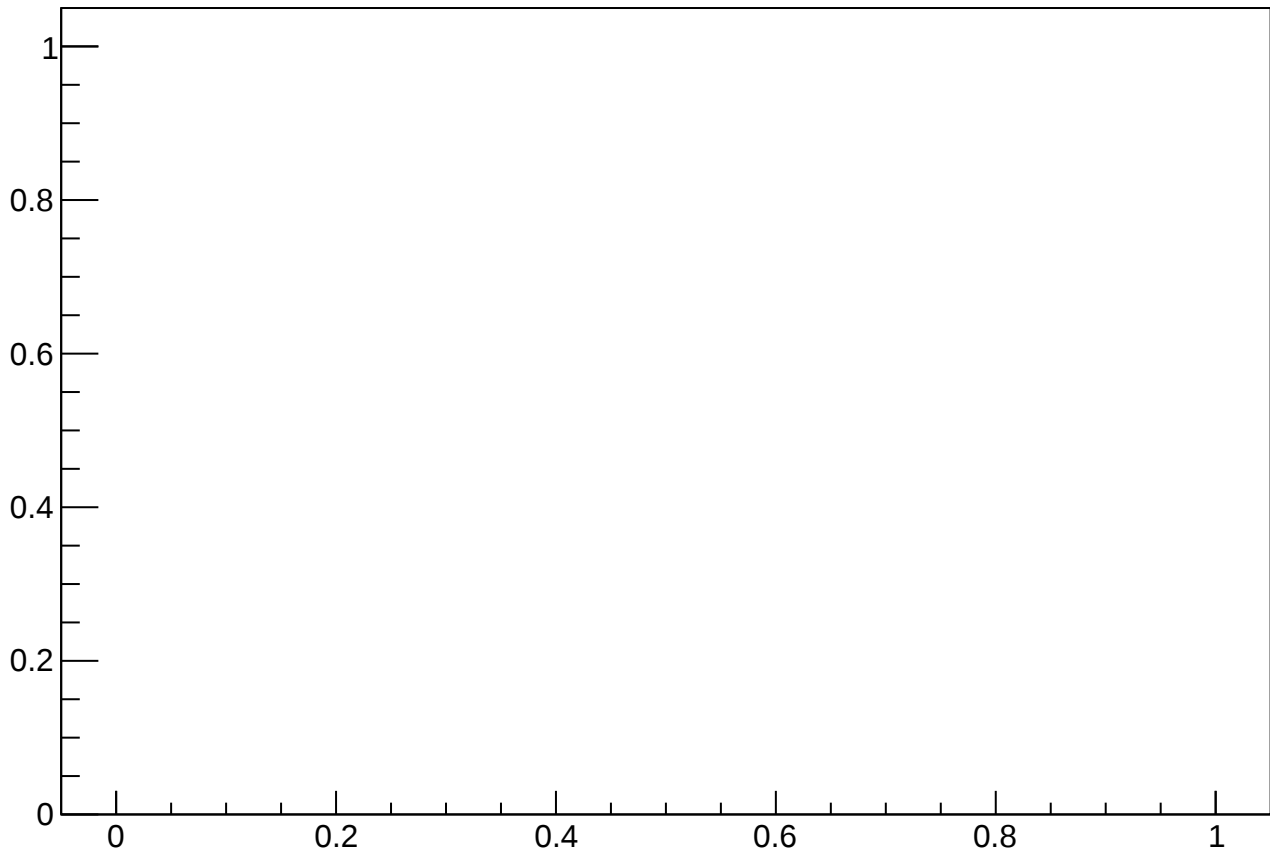
Right: 217.338 ± 0.038 χ^2/NDF : 2929554.0/44

In: 216.193 ± 0.031 χ^2/NDF : 2161428.3/42

Out: 223.598 ± 0.030 χ^2/NDF : 2674077.4/49

All: 220.002 ± 0.022 χ^2/NDF : 4864247.7/92

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

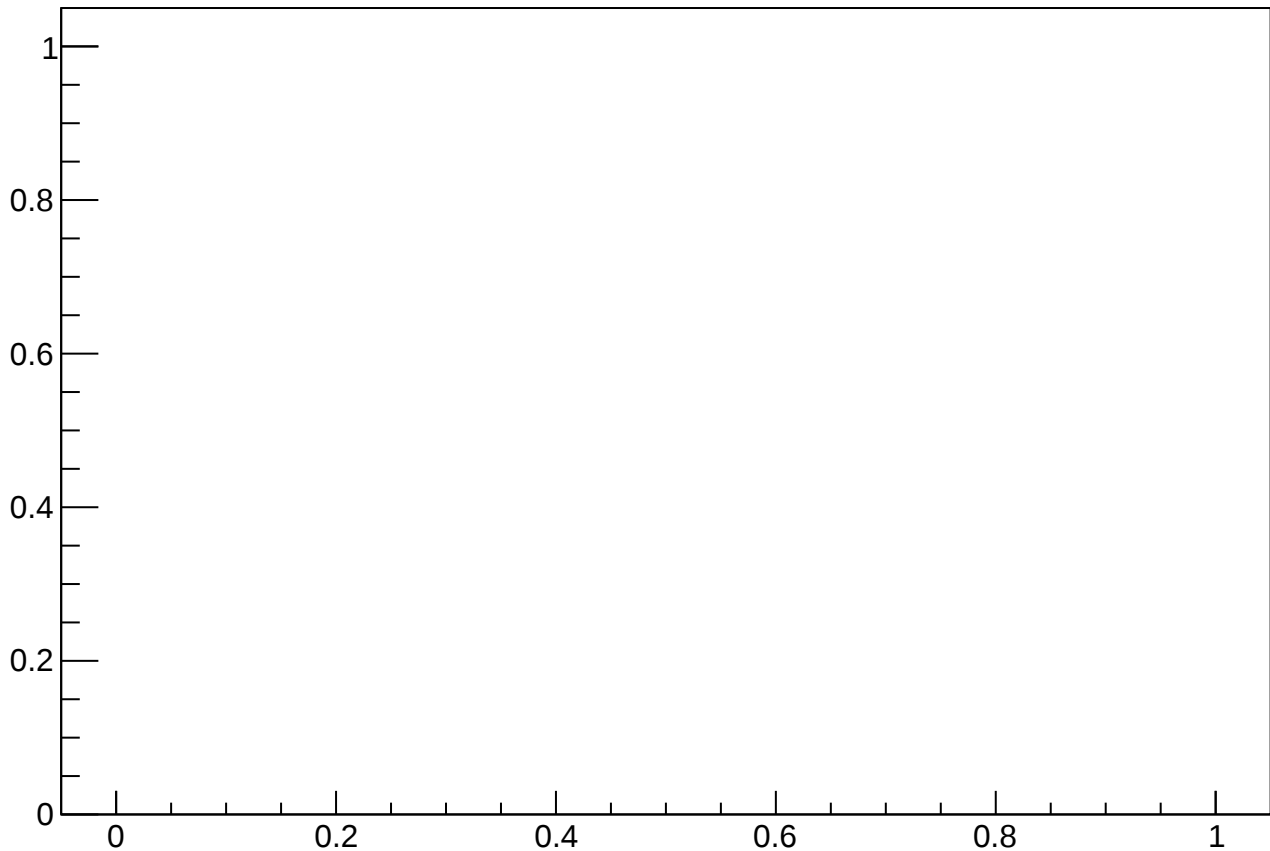
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

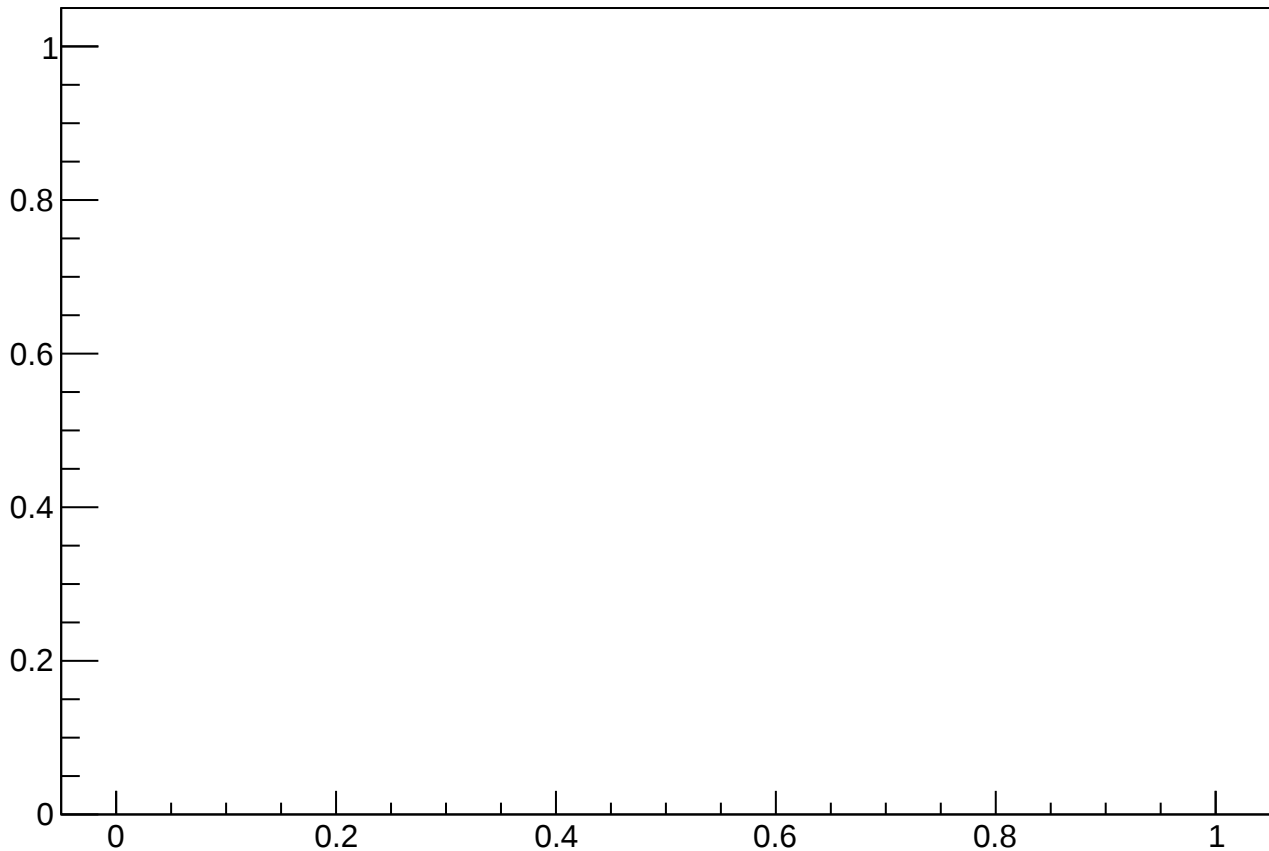
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

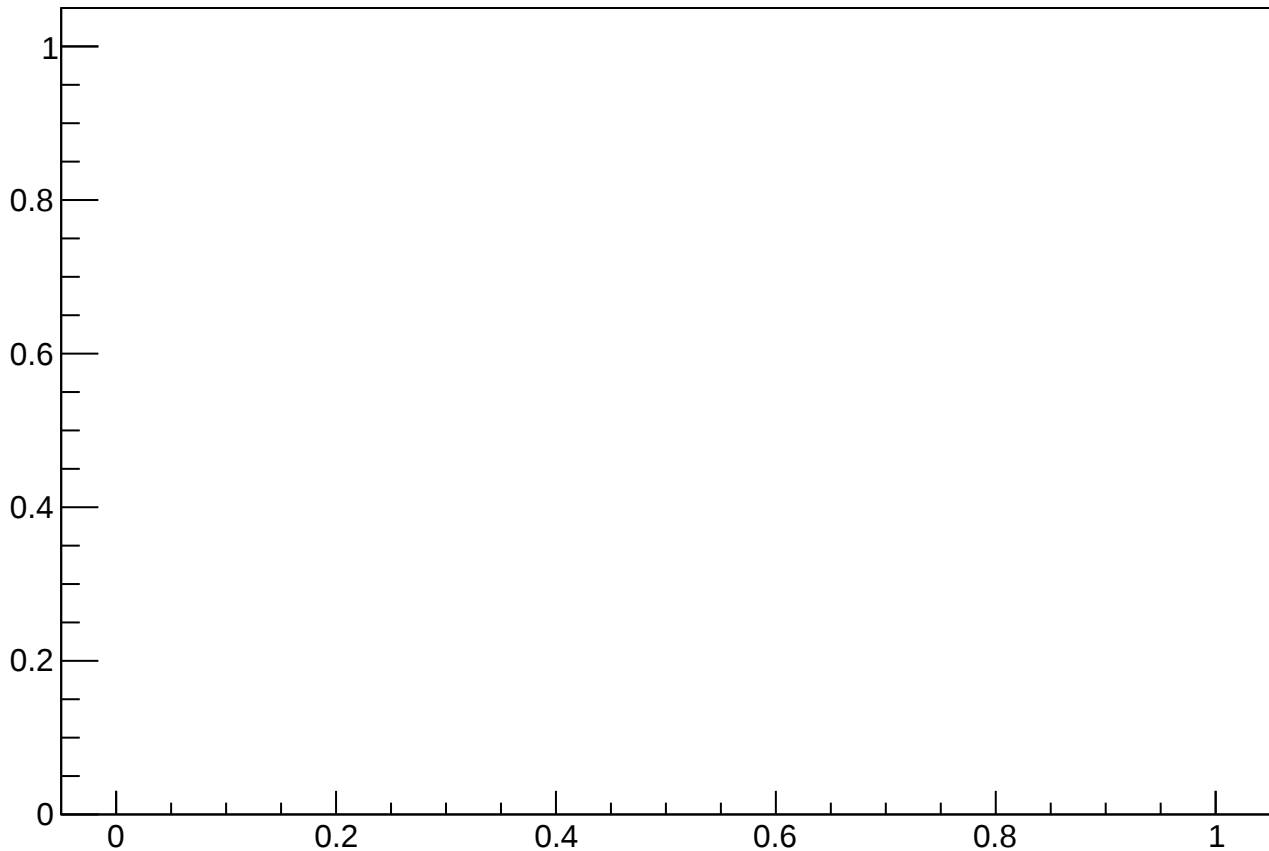
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

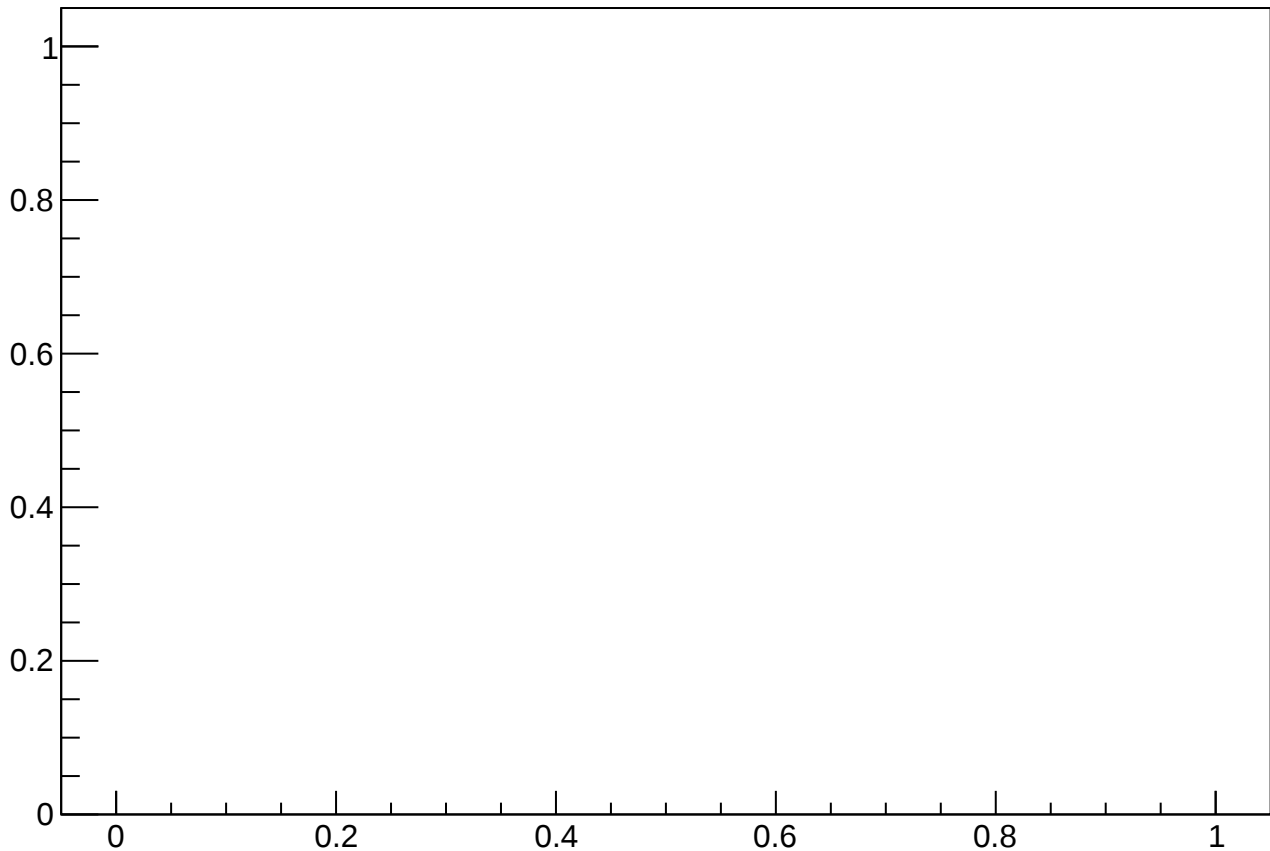
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

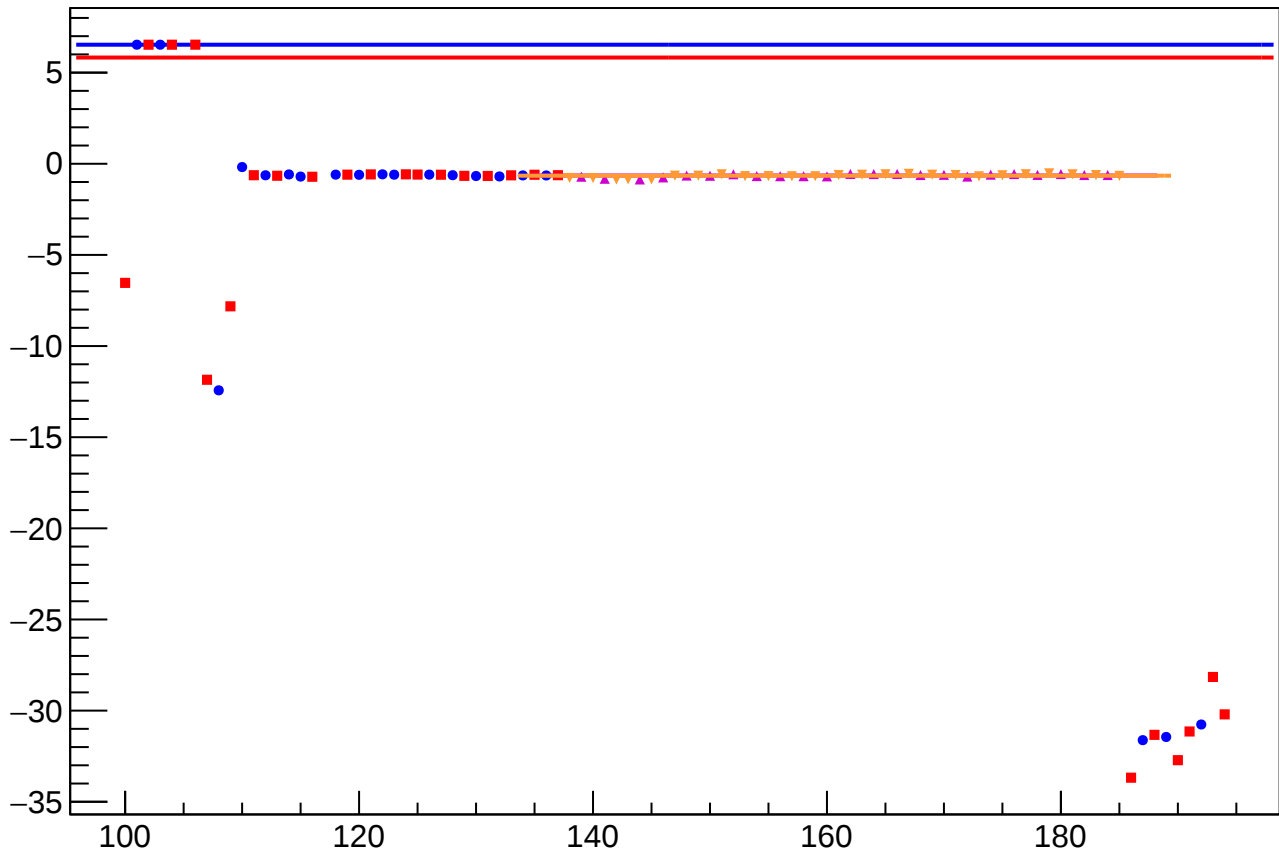
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127724619236.2/19

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962175262634.0/24

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

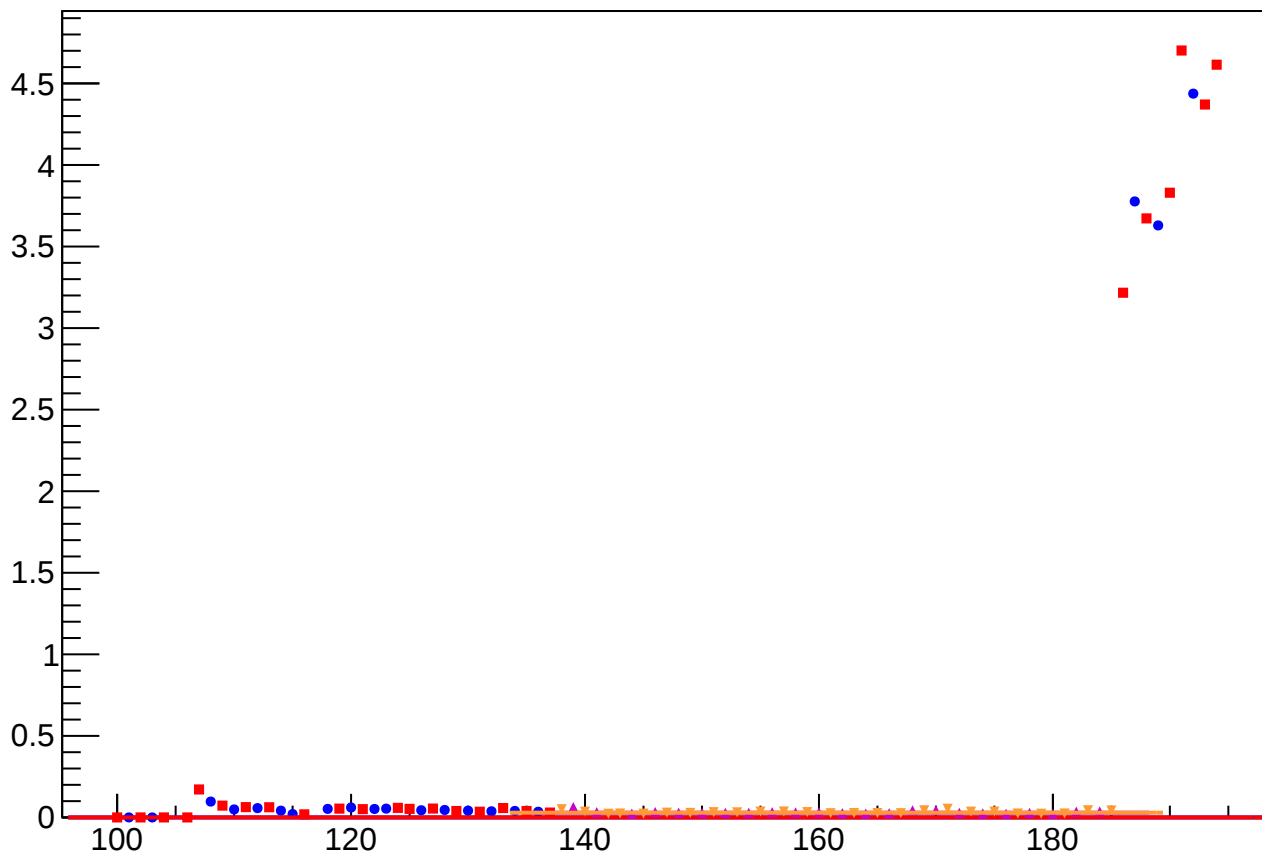
Right: 6.155+/-0.000 χ^2/NDF : 776093865305379.2/47

In: 6.530+/-0.000 χ^2/NDF : 961843220452.9/42

Out: 5.826+/-0.000 χ^2/NDF : 756673192161529.8/42

All: 6.153+/-0.000 χ^2/NDF : 77762729720872.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11750854.3/19

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 16017244.2/24

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

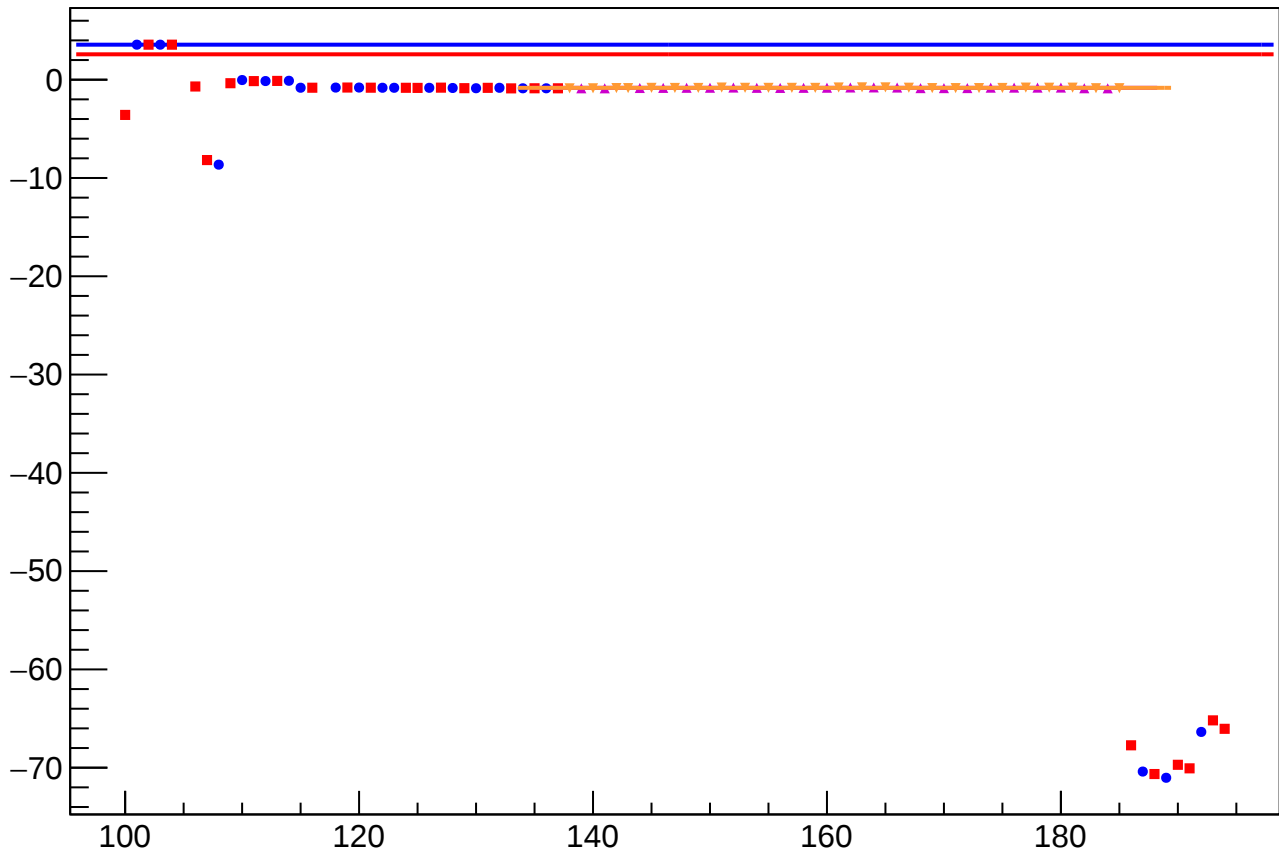
Right: 0.000+/-0.000 χ^2/NDF : 27768345.3/44

In: 0.000+/-0.000 χ^2/NDF :39928671.0/42

Out: 0.000+/-0.000 χ^2/NDF :45985291.0/49

All: 0.000+/-0.000 χ^2/NDF : 85914386.7/92

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 485202119004.1/19

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253512042648303.5/24

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

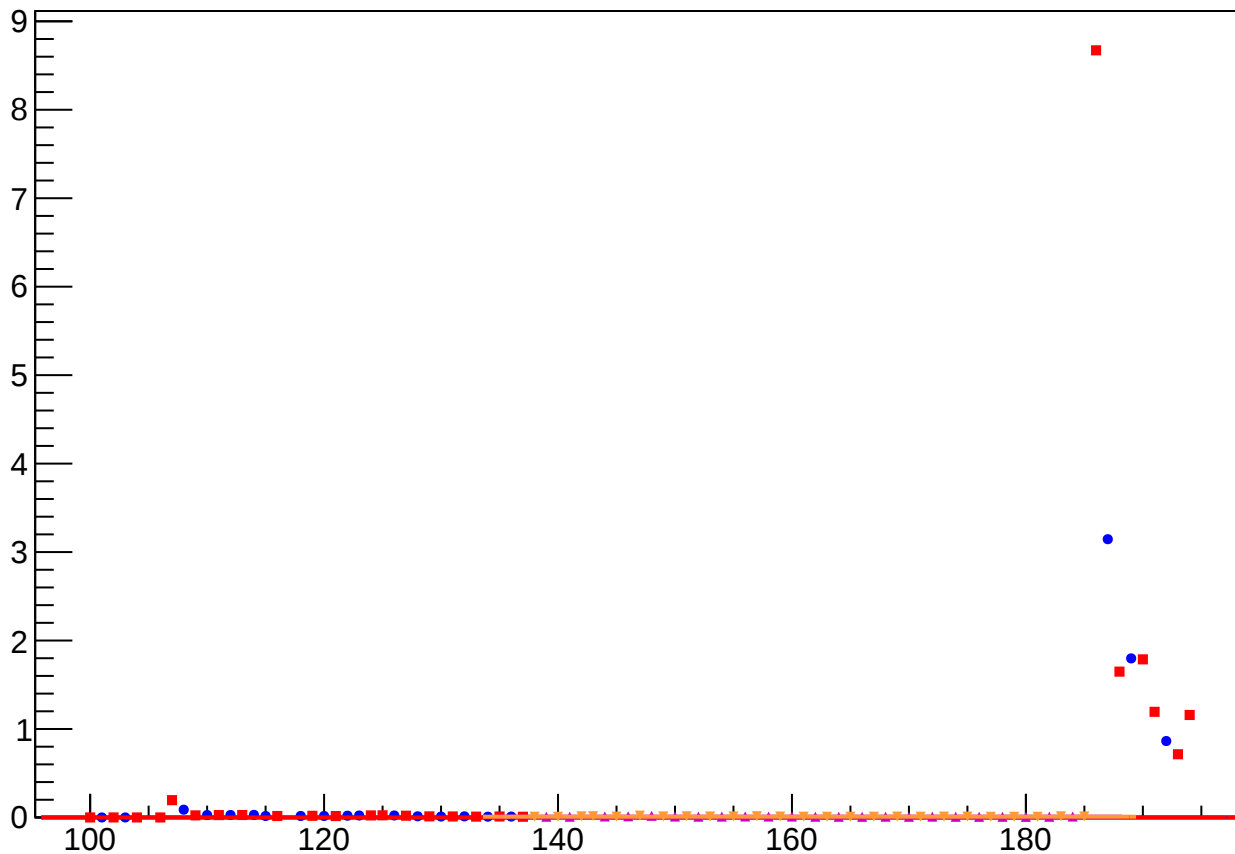
Right: 3.040+/-0.000 χ^2/NDF : 1382268414537058.5

In: 3.560+/-0.000 χ^2/NDF : 4165763972445.6/42

Out: 2.581+/-0.000 χ^2/NDF : 1255742944151811.2

All: 3.038+/-0.000 χ^2/NDF : 13879929770577.5

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12065401.9/19

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 15681669.2/24

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

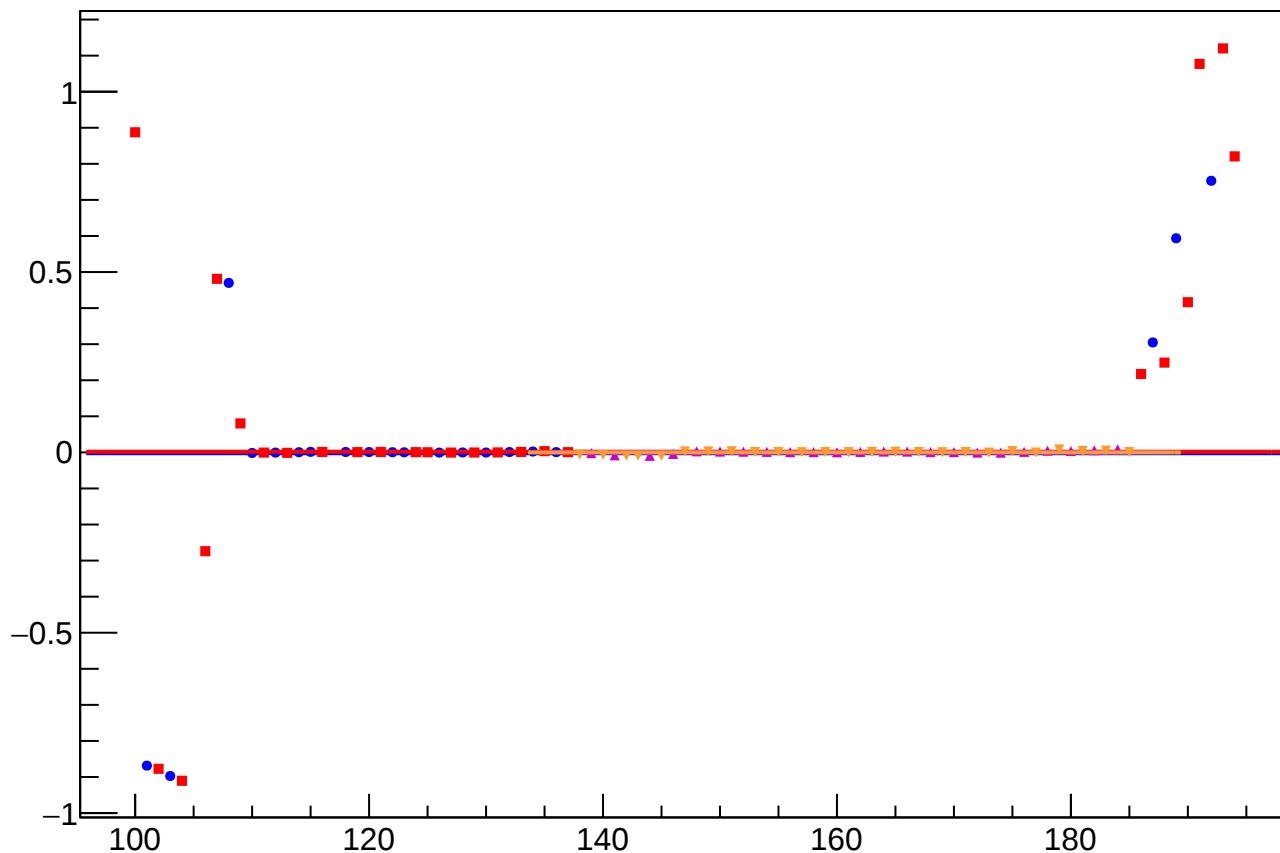
Right: 0.000+/-0.000 χ^2/NDF : 27747343.3/44

In: 0.000+/-0.000 χ^2/NDF :41862616.4/42

Out: 0.000+/-0.000 χ^2/NDF :47199858.2/49

All: 0.000+/-0.000 χ^2/NDF : 89063250.1/92

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795164198.2/19

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 304200626.1/24

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000

χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000

χ^2/NDF : 12851318185.4/44

In: -0.000+/-0.000

χ^2/NDF : 9908078679.7/42

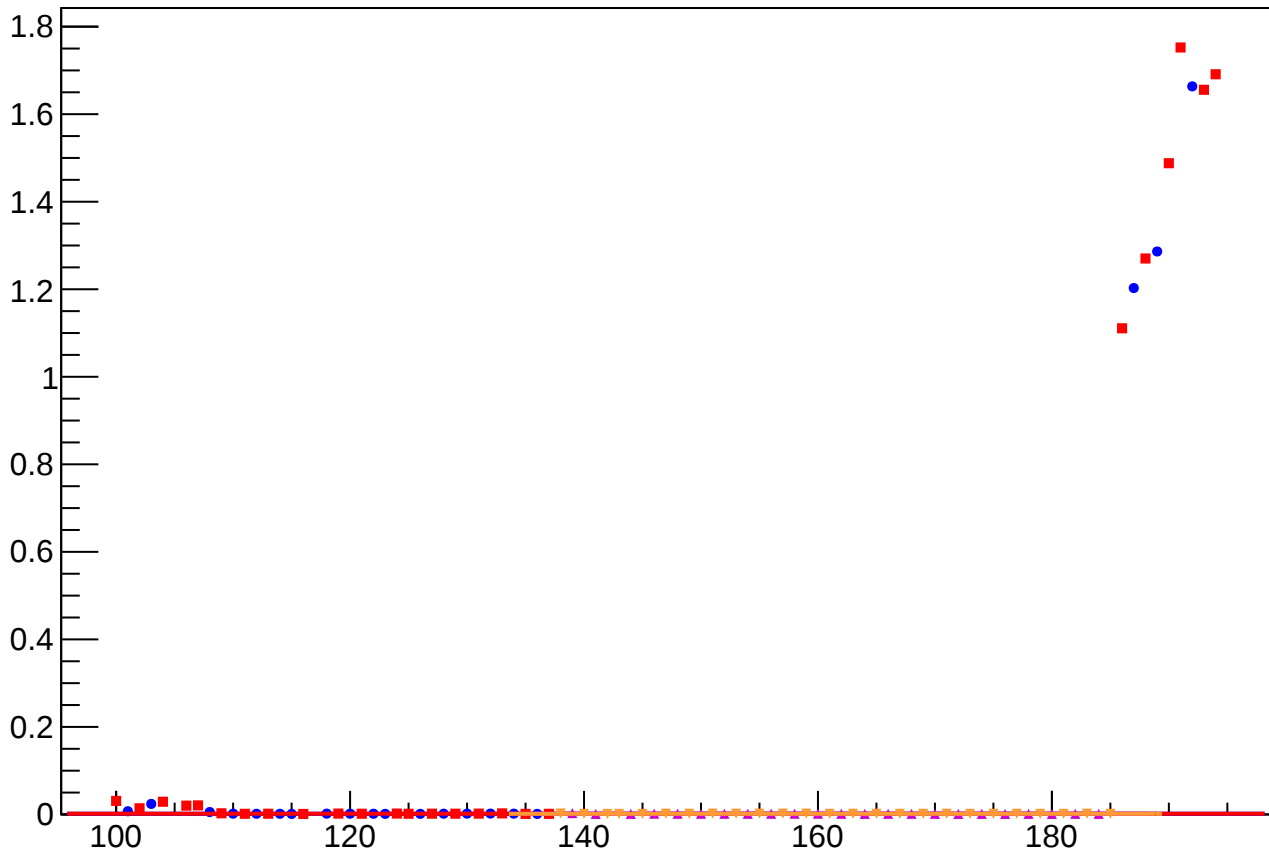
Out: 0.000+/-0.000

χ^2/NDF : 3198239718.5/49

All: 0.000+/-0.000

χ^2/NDF : 13106689946.8/9

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4810157.8/19

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9695784.6/24

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

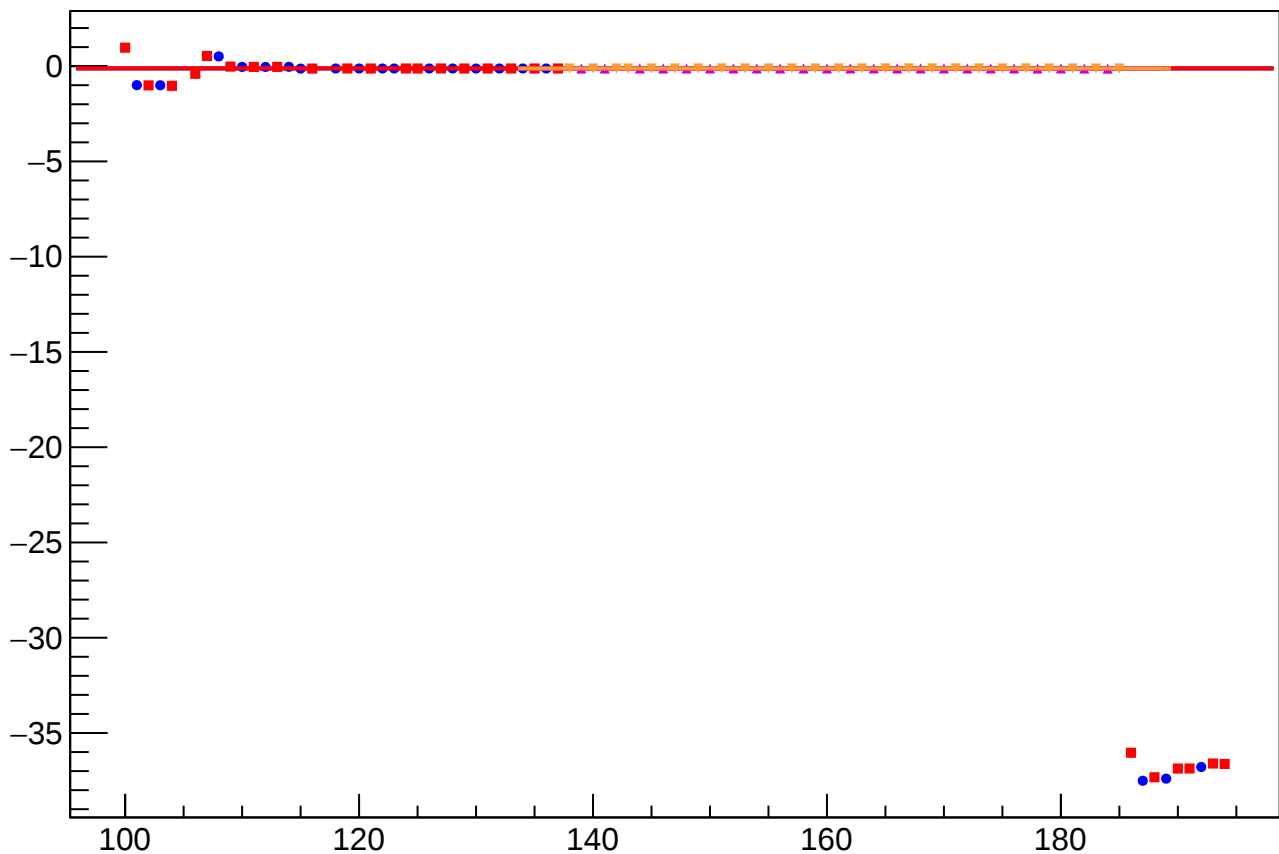
Right: 0.002+/-0.000 χ^2/NDF : 14513976.6/44

In: 0.002+/-0.000 χ^2/NDF :5521117.7/42

Out: 0.002+/-0.000 χ^2/NDF :10369470.5/49

All: 0.002+/-0.000 χ^2/NDF : 15891203.9/92

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 14919151689.0/19

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 27230569930.3/24

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

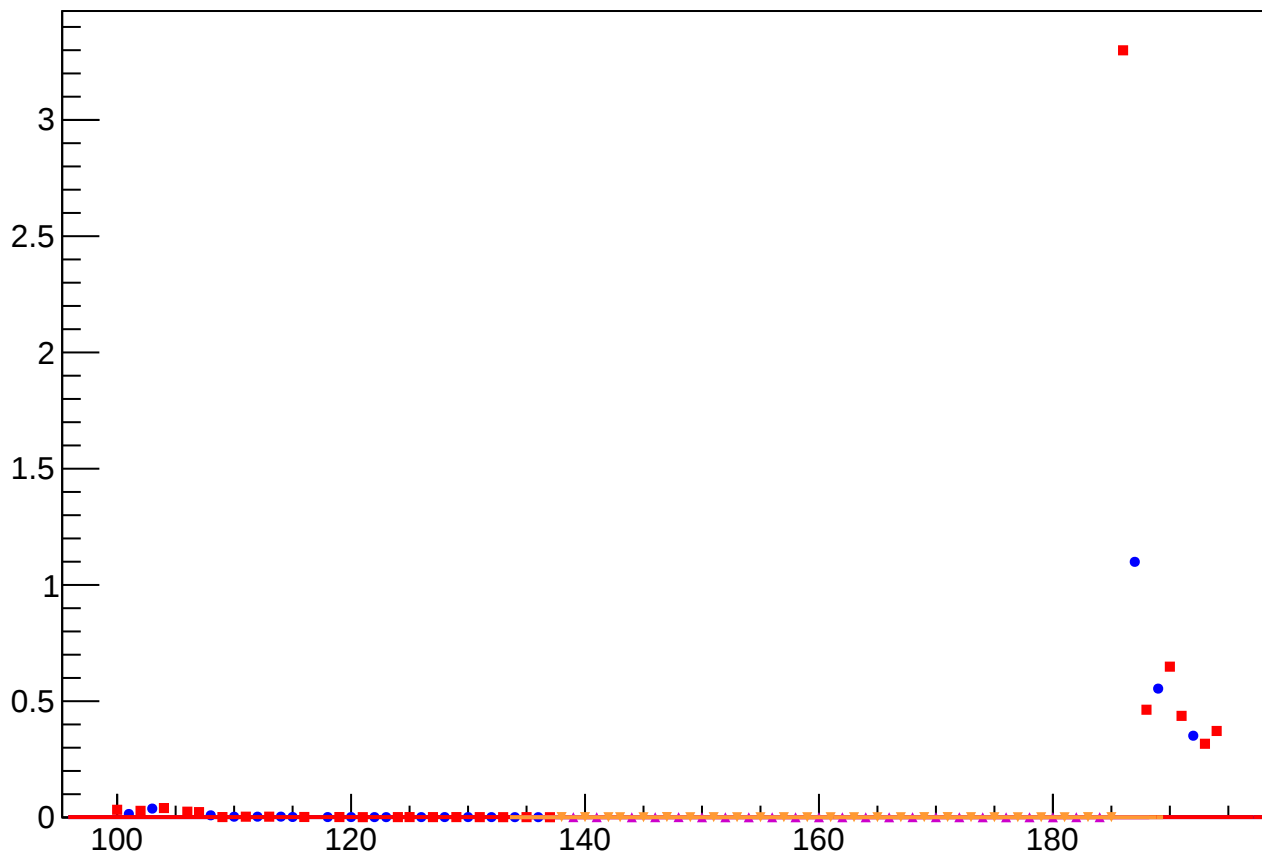
Right: -0.118+/-0.000 χ^2/NDF : 42170720665.3/44

In: -0.121+/-0.000 χ^2/NDF : 14972618405.5/42

Out: -0.121+/-0.000 χ^2/NDF : 27337507570.7/49

All: -0.121+/-0.000 χ^2/NDF : 42310974581.5/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5606773.8/19

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9928345.4/24

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

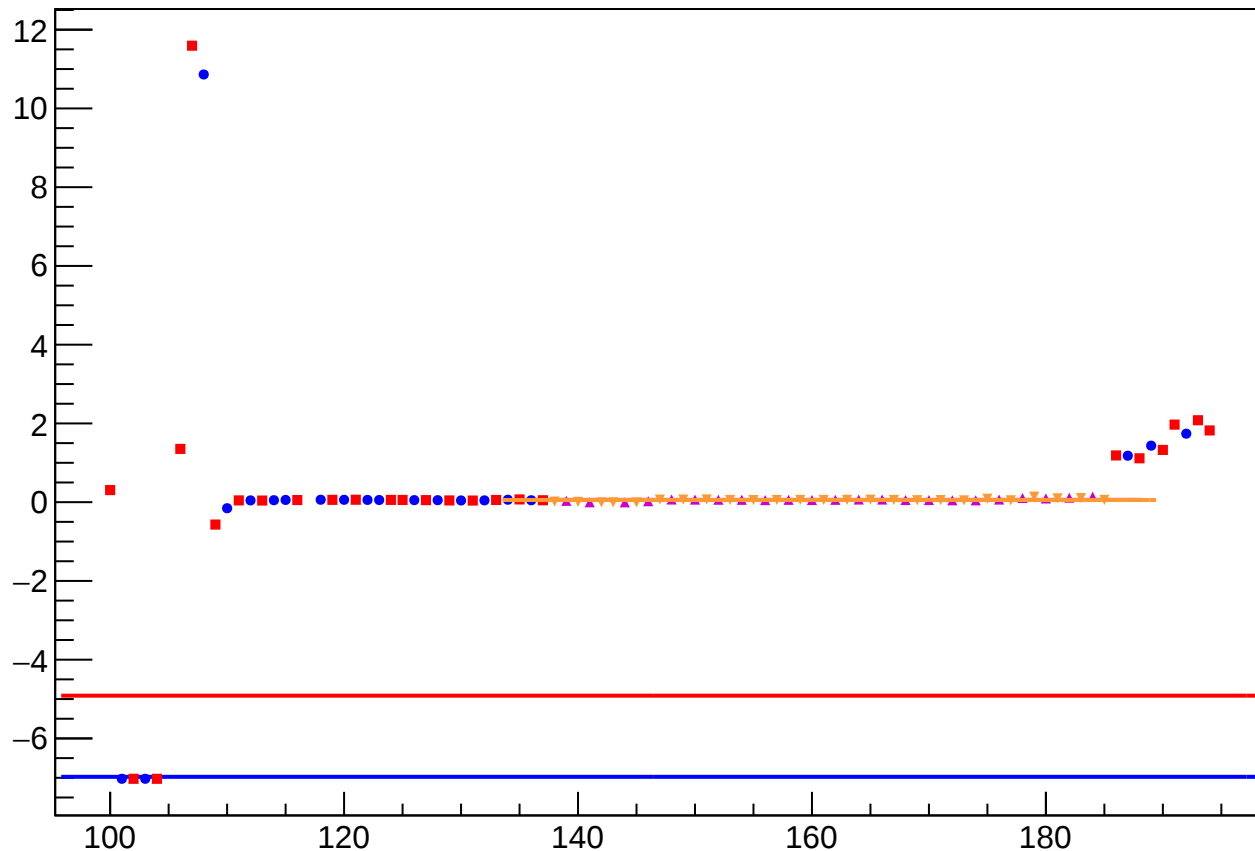
Right: 0.002+/-0.000 χ^2/NDF : 15535138.5/44

In: 0.001+/-0.000 χ^2/NDF :7703554.7/42

Out: 0.001+/-0.000 χ^2/NDF :12447376.2/49

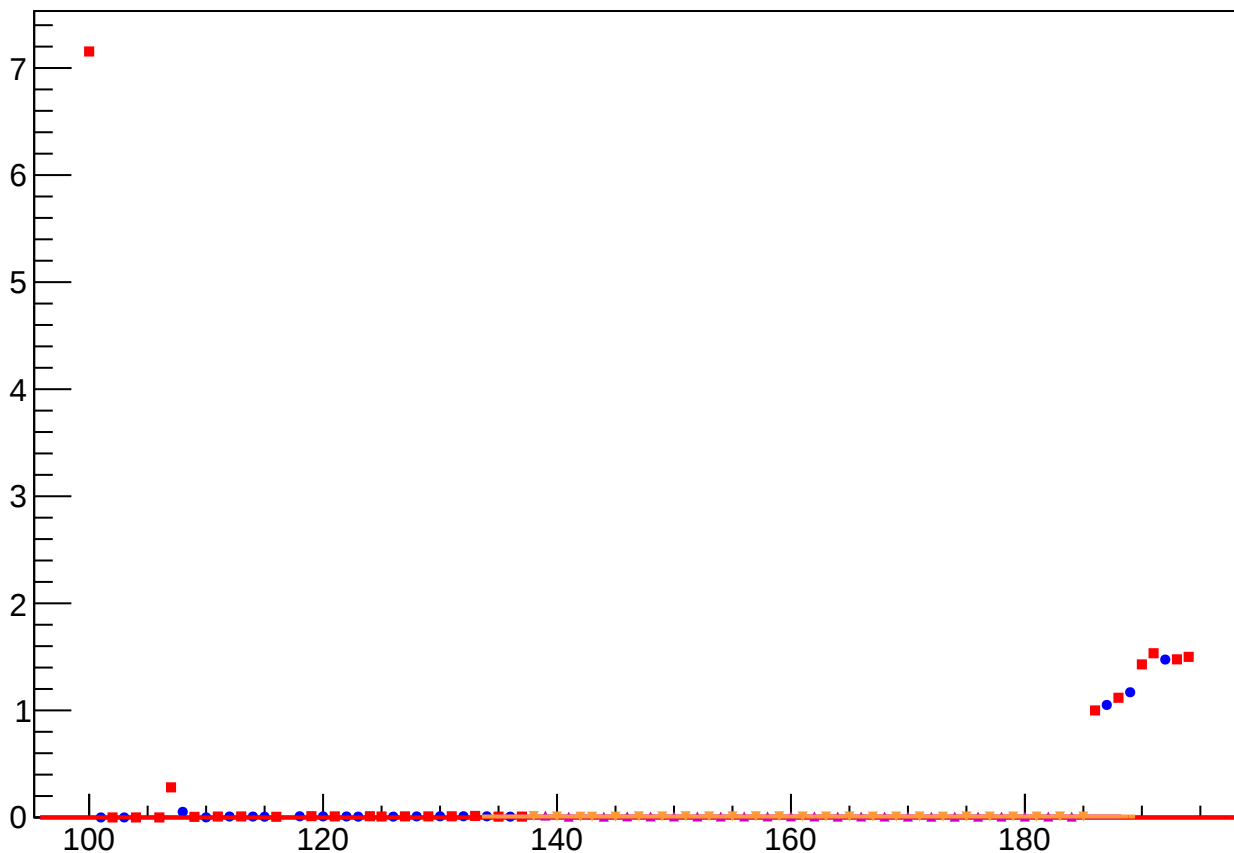
All: 0.001+/-0.000 χ^2/NDF : 20152993.3/92

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762510019374.2/19$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430303346840508.0$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348616016097.8/24$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605038243557.2/42$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175303307848.7/24$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435813126537.0$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11122063.5/19

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 15443258.2/24

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

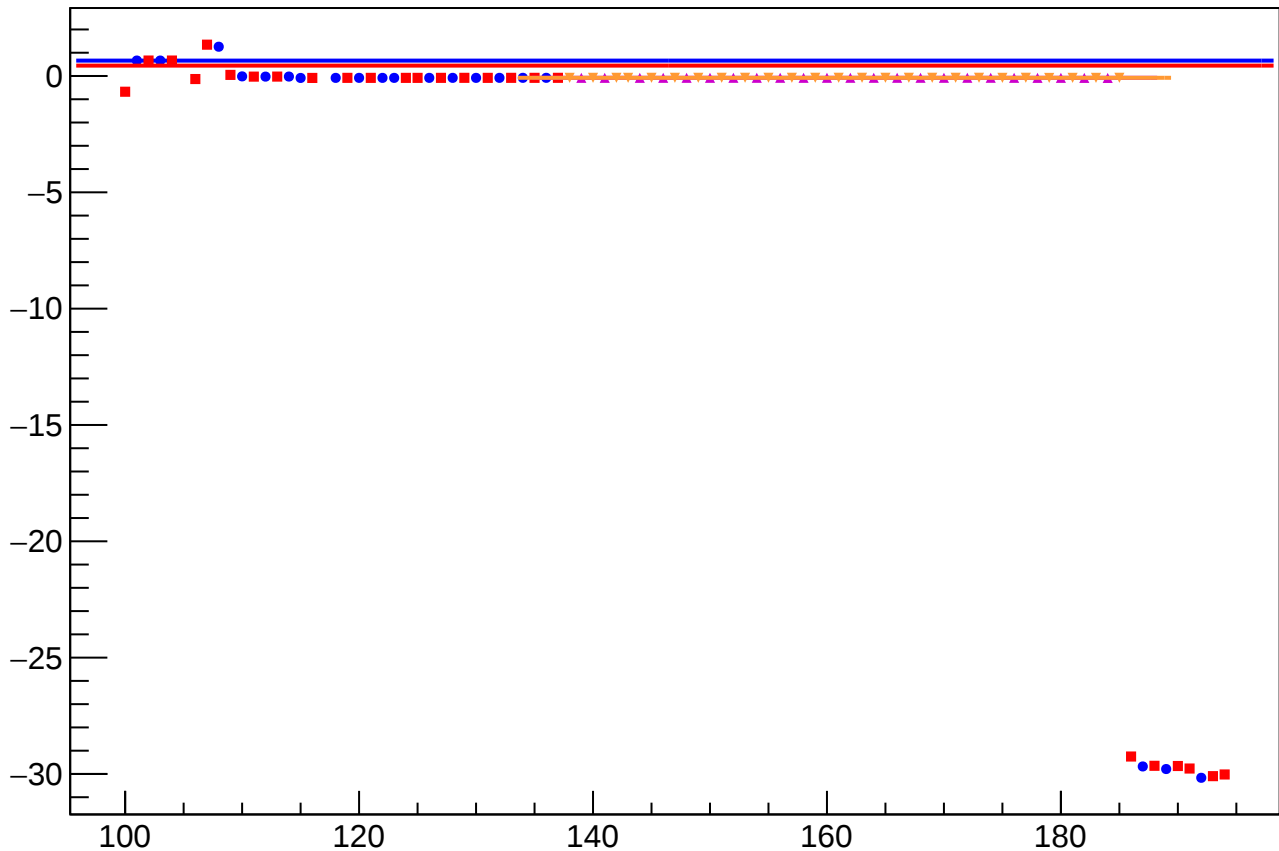
Right: 0.000+/-0.000 χ^2/NDF : 26565621.0/44

In: 0.000+/-0.000 χ^2/NDF : 38759428.5/42

Out: 0.000+/-0.000 χ^2/NDF : 44471753.6/49

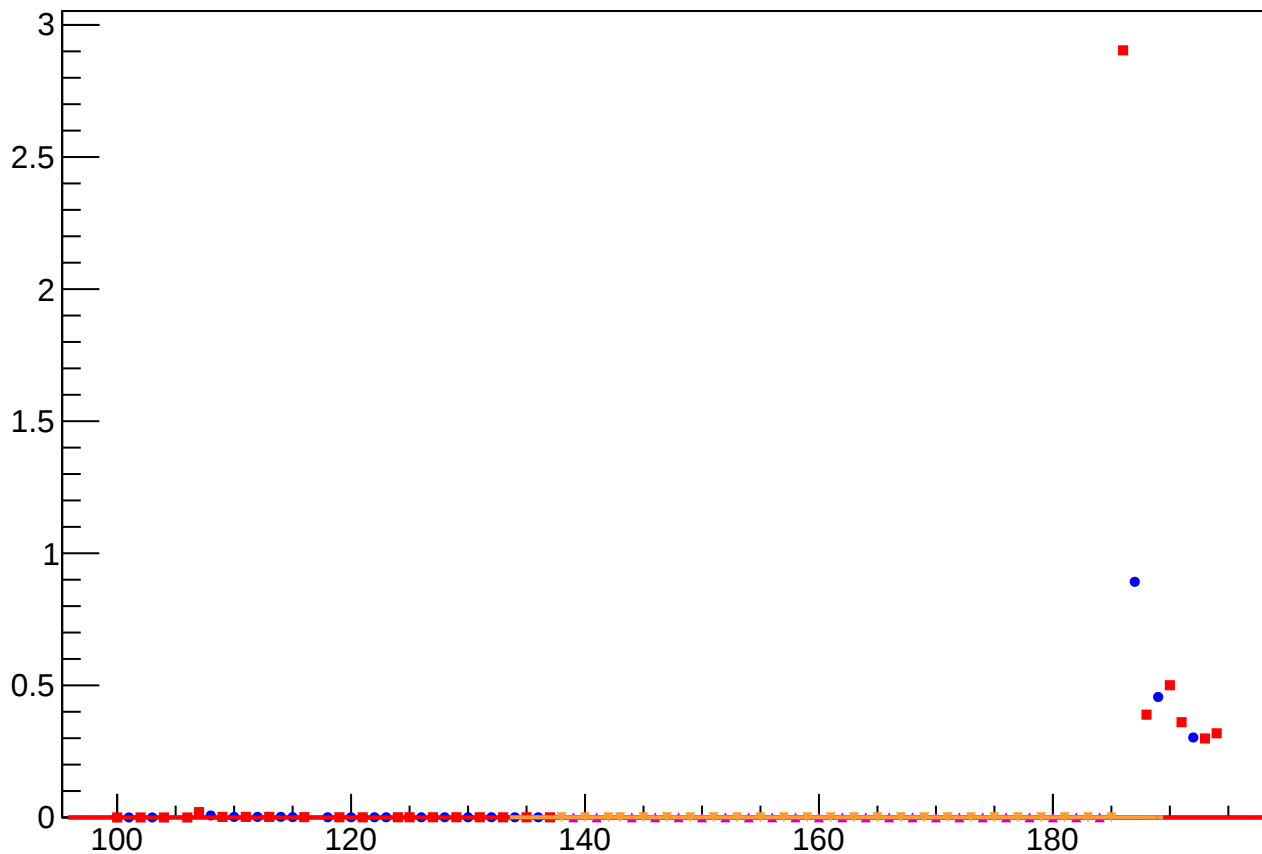
All: 0.000+/-0.000 χ^2/NDF : 83231663.0/92

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5596242328987.5/19	Left: -0.078+/-0.000	χ^2/NDF : 267788024.6/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156525648.0/24	Right: 0.549+/-0.000	χ^2/NDF : 473965053190523.0
Right Out: 0.446+/-0.000	χ^2/NDF : 405439526000386.0/24	In: 0.647+/-0.000	χ^2/NDF : 33856223275925.2/42
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420634117841642.6/4
		All: 0.537+/-0.000	χ^2/NDF : 51601508485710

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12677676.4/19

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 16015662.7/24

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

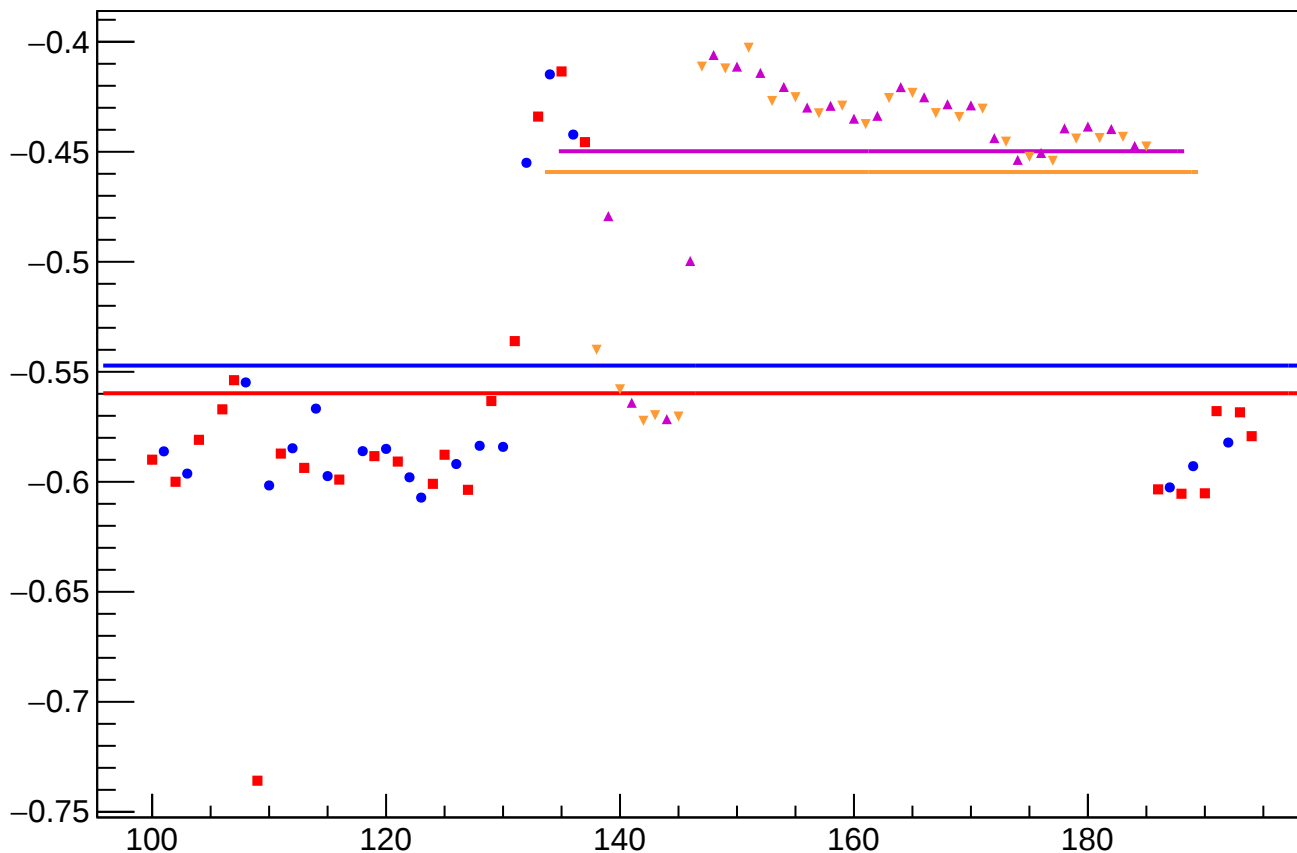
Right: 0.000+/-0.000 χ^2/NDF : 28693345.1/44

In: 0.000+/-0.000 χ^2/NDF : 43656549.8/42

Out: 0.000+/-0.000 χ^2/NDF : 48729905.3/49

All: 0.000+/-0.000 χ^2/NDF : 92386851.4/92

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547+/-0.000 χ^2/NDF : 47175204.8/19

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65242388.5/24

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

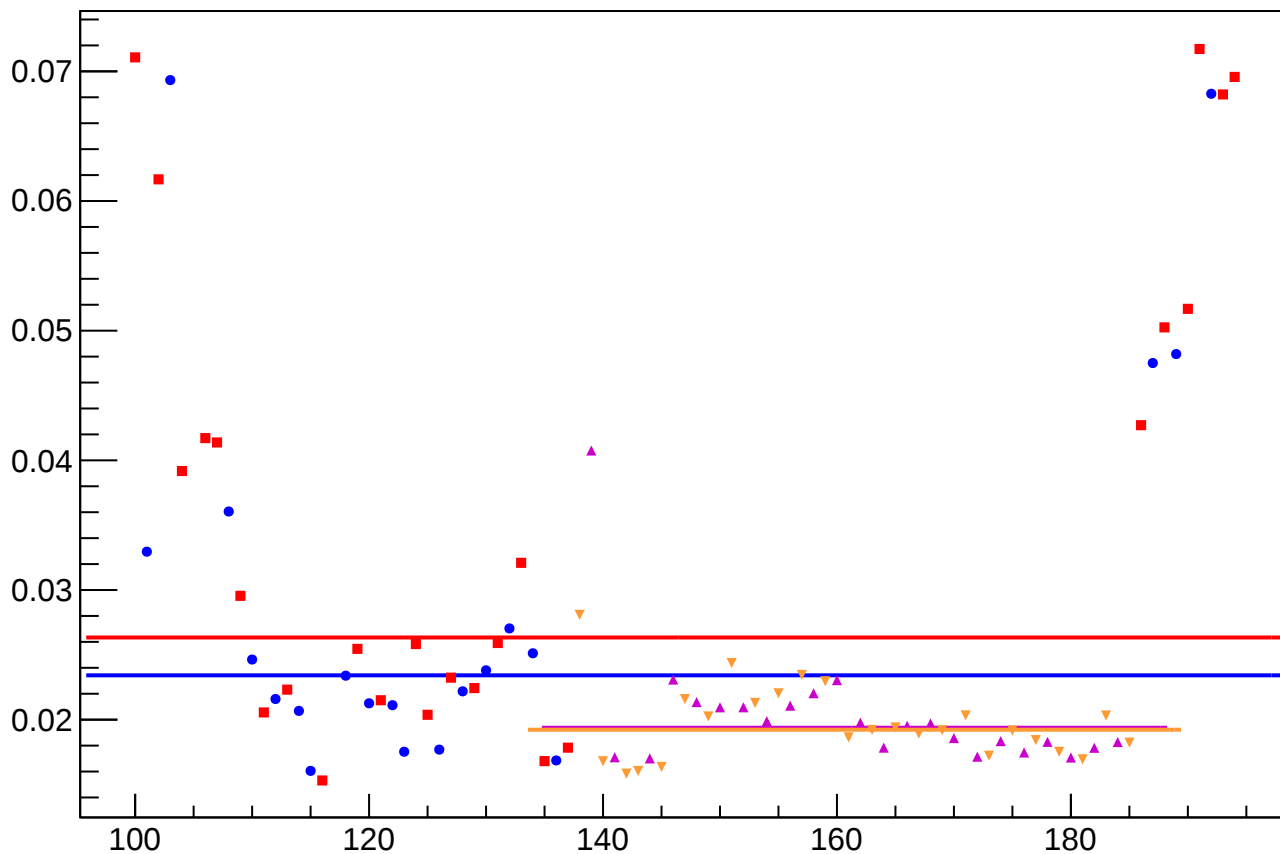
Right: -0.553+/-0.000 χ^2/NDF : 113274903.6/44

In: -0.472+/-0.000 χ^2/NDF : 202910076.1/42

Out: -0.481+/-0.000 χ^2/NDF : 265490132.7/49

All: -0.476+/-0.000 χ^2/NDF : 470391905.1/92

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2062698.3/19

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.026+/-0.000 χ^2/NDF : 3377738.1/24

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

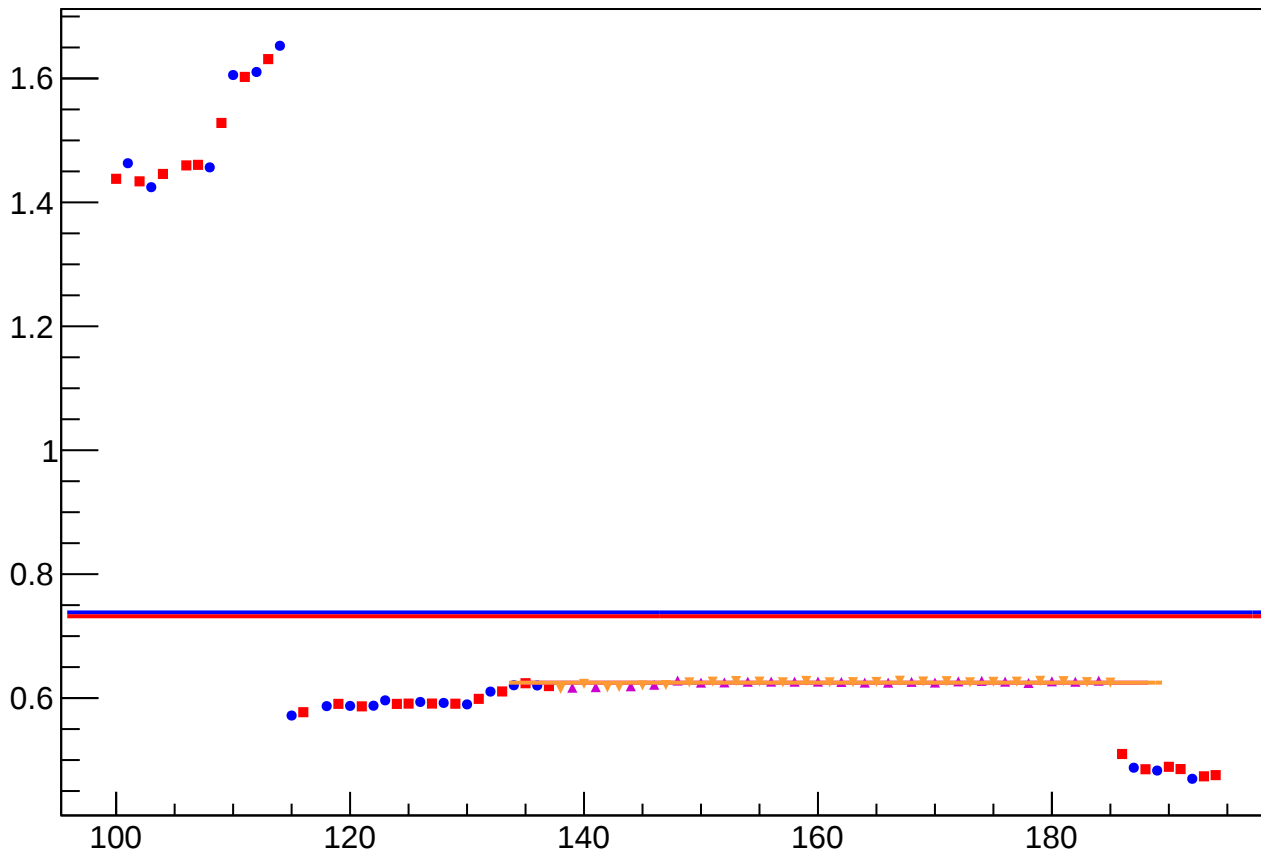
Right: 0.025+/-0.000 χ^2/NDF : 5532732.0/44

In: 0.020+/-0.000 χ^2/NDF : 2992930.1/42

Out: 0.021+/-0.000 χ^2/NDF : 4743978.9/49

All: 0.021+/-0.000 χ^2/NDF : 7747094.4/92

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.738 $\pm$ 0.000 χ^2 /NDF: 4031853885.3/19

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.732 $\pm$ 0.000 χ^2 /NDF: 5164788480.6/24

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

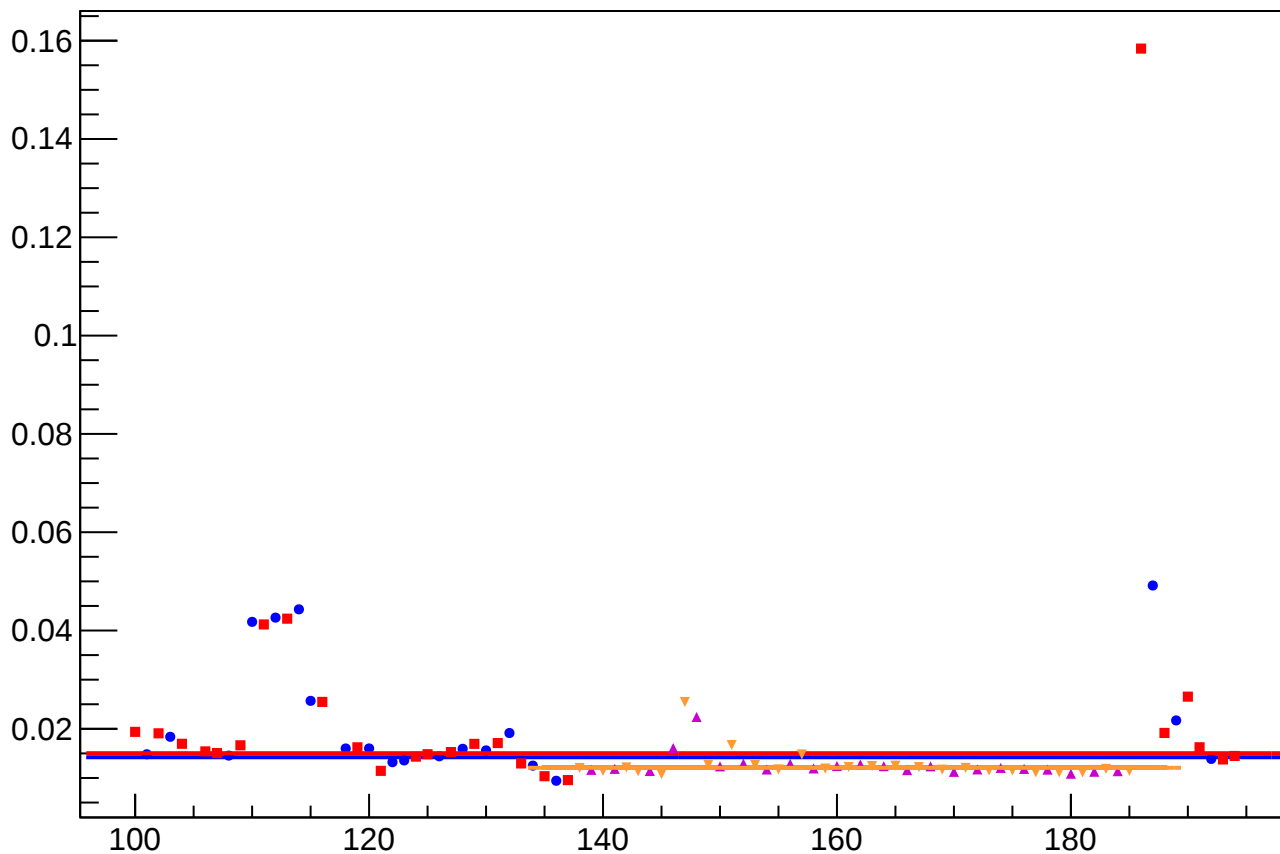
Right: 0.735 $\pm$ 0.000 χ^2 /NDF: 9197345168.5/44

In: 0.651 $\pm$ 0.000 χ^2 /NDF:4370160291.3/42

Out: 0.651 $\pm$ 0.000 χ^2 /NDF:5505246057.0/49

All: 0.651 $\pm$ 0.000 χ^2 /NDF: 9875407630.7/92

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1627381.3/19

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2051741.5/24

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

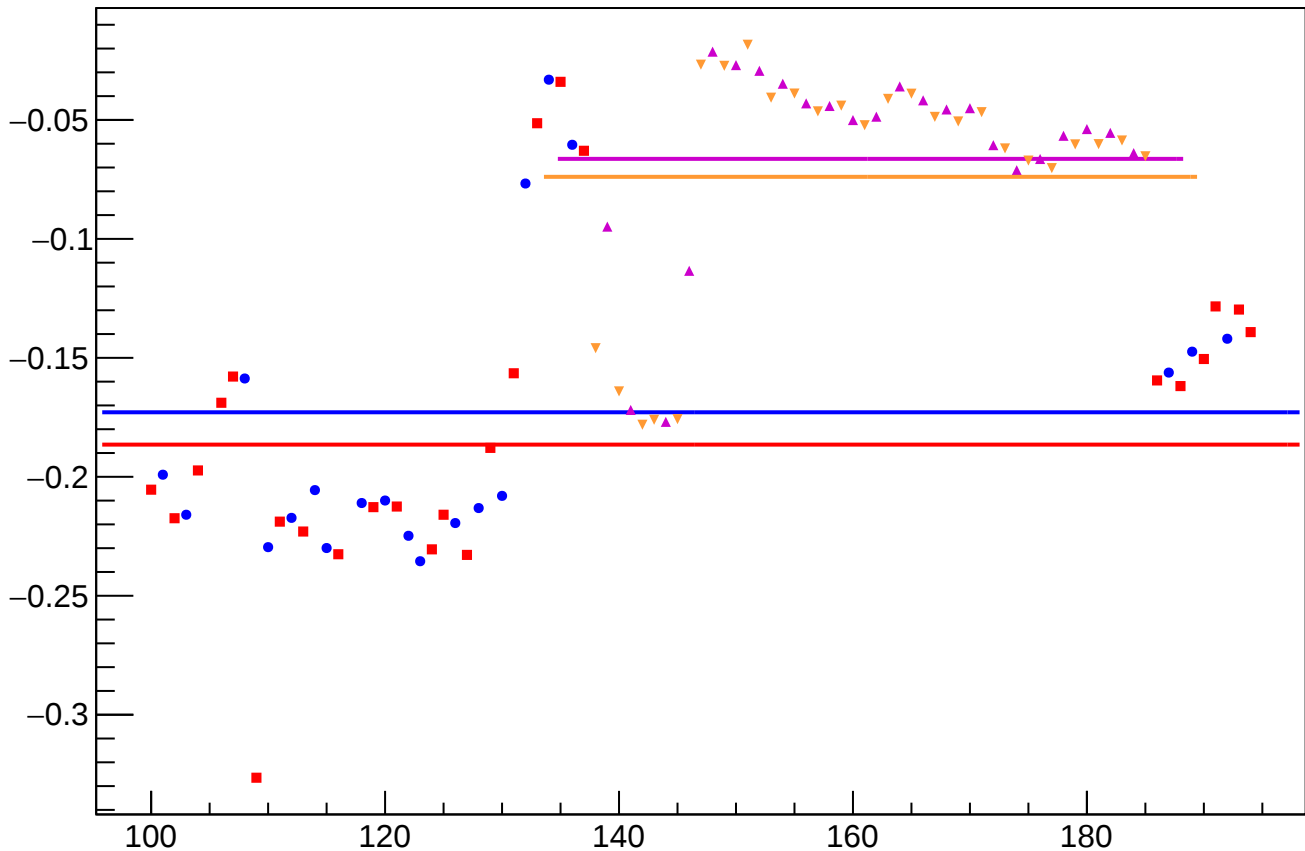
Right: 0.015+/-0.000 χ^2/NDF : 3703994.2/44

In: 0.013+/-0.000 χ^2/NDF : 2342496.3/42

Out: 0.013+/-0.000 χ^2/NDF : 3230314.0/49

All: 0.013+/-0.000 χ^2/NDF : 5577977.0/92

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.173 ± 0.000 χ^2/NDF : 67155655.5/19

Left Out: -0.074 ± 0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.186 ± 0.000 χ^2/NDF : 83103863.0/24

Left In: -0.066 ± 0.000 χ^2/NDF : 76283954.4/22

Left: -0.070 ± 0.000 χ^2/NDF : 185261776.8/47

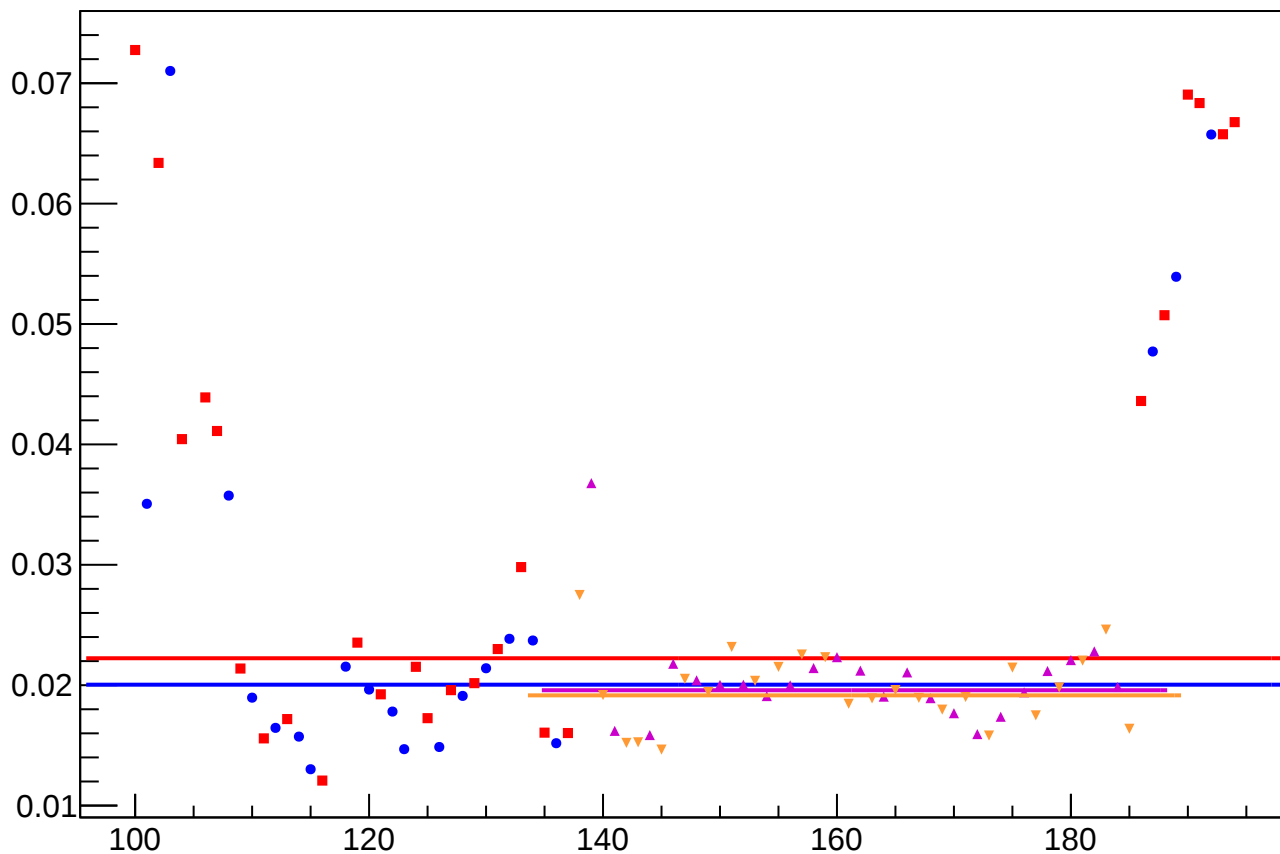
Right: -0.180 ± 0.000 χ^2/NDF : 151580848.8/44

In: -0.096 ± 0.000 χ^2/NDF : 260514797.1/42

Out: -0.103 ± 0.000 χ^2/NDF : 326090716.4/49

All: -0.100 ± 0.000 χ^2/NDF : 588047666.0/92

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2533729.0/19

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.022+/-0.000 χ^2/NDF : 4255472.8/24

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

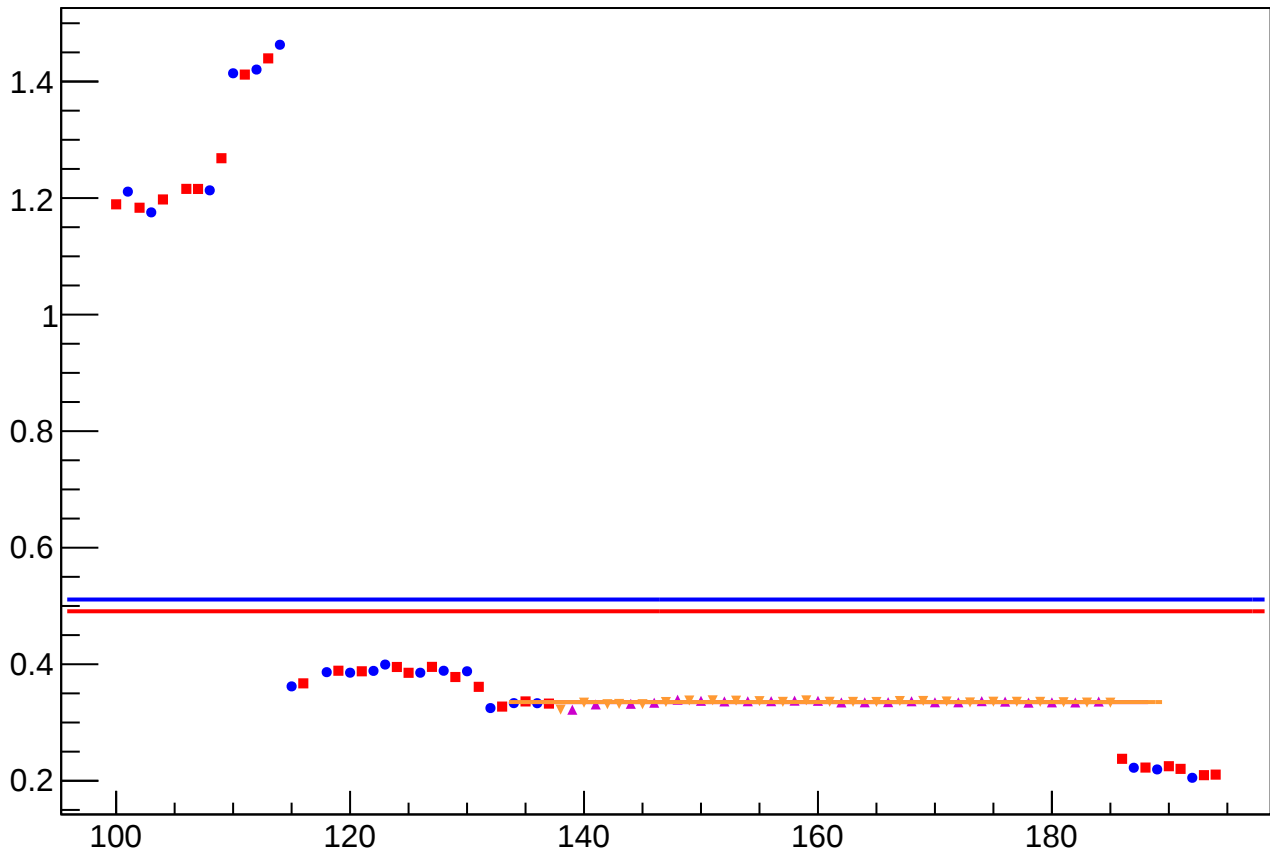
Right: 0.021+/-0.000 χ^2/NDF : 6858228.6/44

In: 0.020+/-0.000 χ^2/NDF : 3189445.9/42

Out: 0.020+/-0.000 χ^2/NDF : 5099198.1/49

All: 0.020+/-0.000 χ^2/NDF : 8291864.9/92

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.511+/-0.000 χ^2/NDF : 5776798379.7/19

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.491+/-0.000 χ^2/NDF : 7181489122.4/24

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

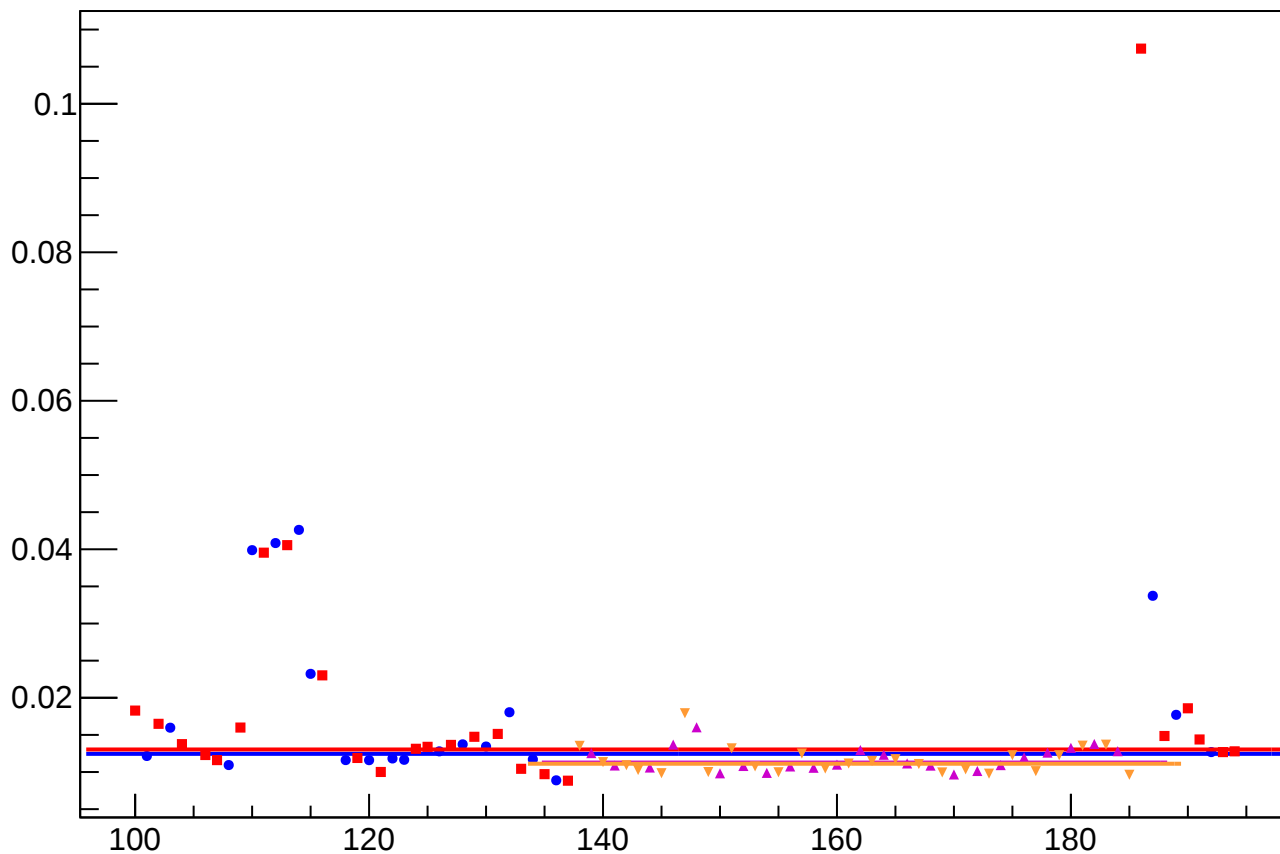
Right: 0.500+/-0.000 χ^2/NDF : 12968095728.0/44

In: 0.380+/-0.000 χ^2/NDF :6810339183.1/42

Out: 0.377+/-0.000 χ^2/NDF :8105471100.3/49

All: 0.378+/-0.000 χ^2/NDF : 14916601333.8/99

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1493493.2/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:608235.7/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1916043.8/24

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502226.7/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1113859.9/47

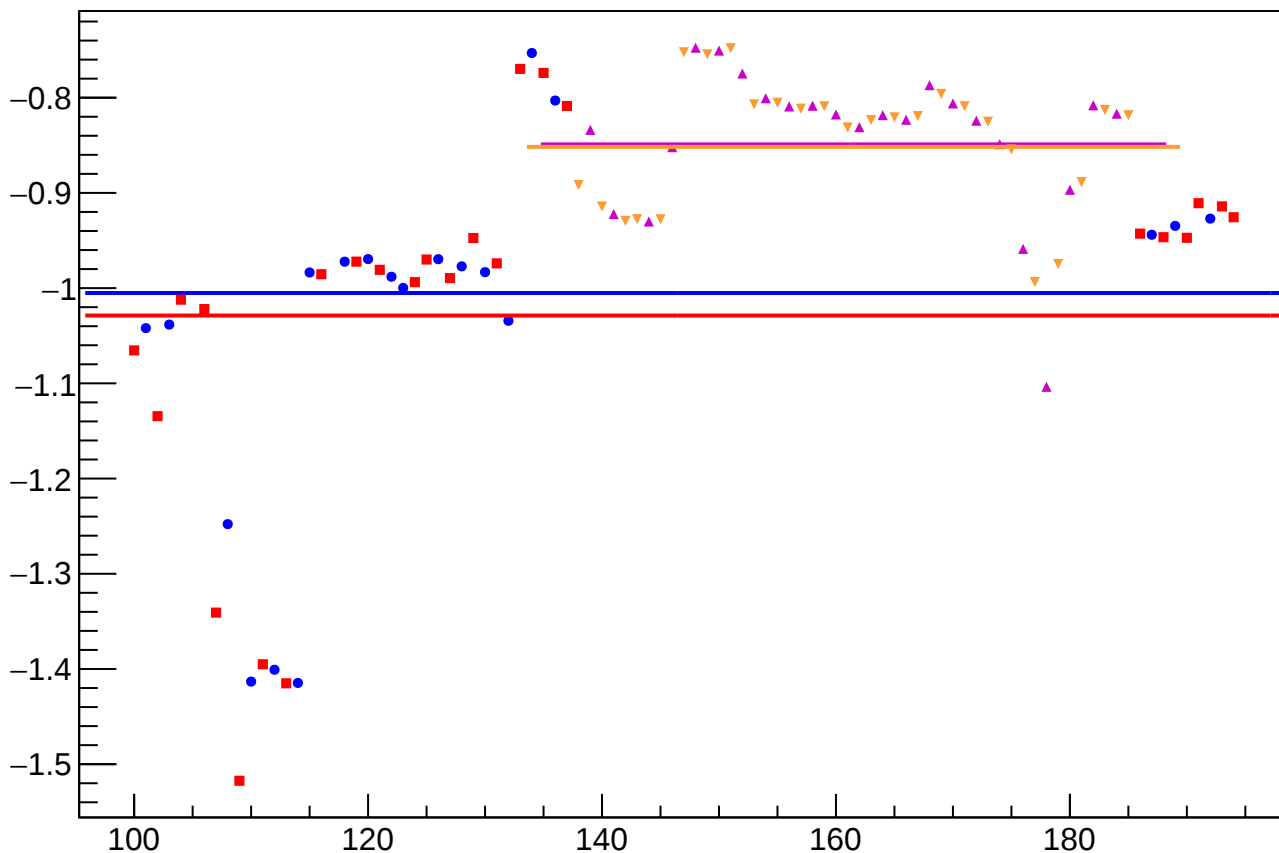
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3426219.2/44

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2087461.3/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2804934.5/49

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4893029.5/92

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.005+/-0.000 χ^2/NDF : 395592217.4/19

Left Out: -0.852+/-0.000 χ^2/NDF :189276591.7/24

Right Out: -1.029+/-0.000 χ^2/NDF : 545021224.6/24

Left In: -0.849+/-0.000 χ^2/NDF :256438306.8/22

Left: -0.850+/-0.000 χ^2/NDF : 445849768.4/47

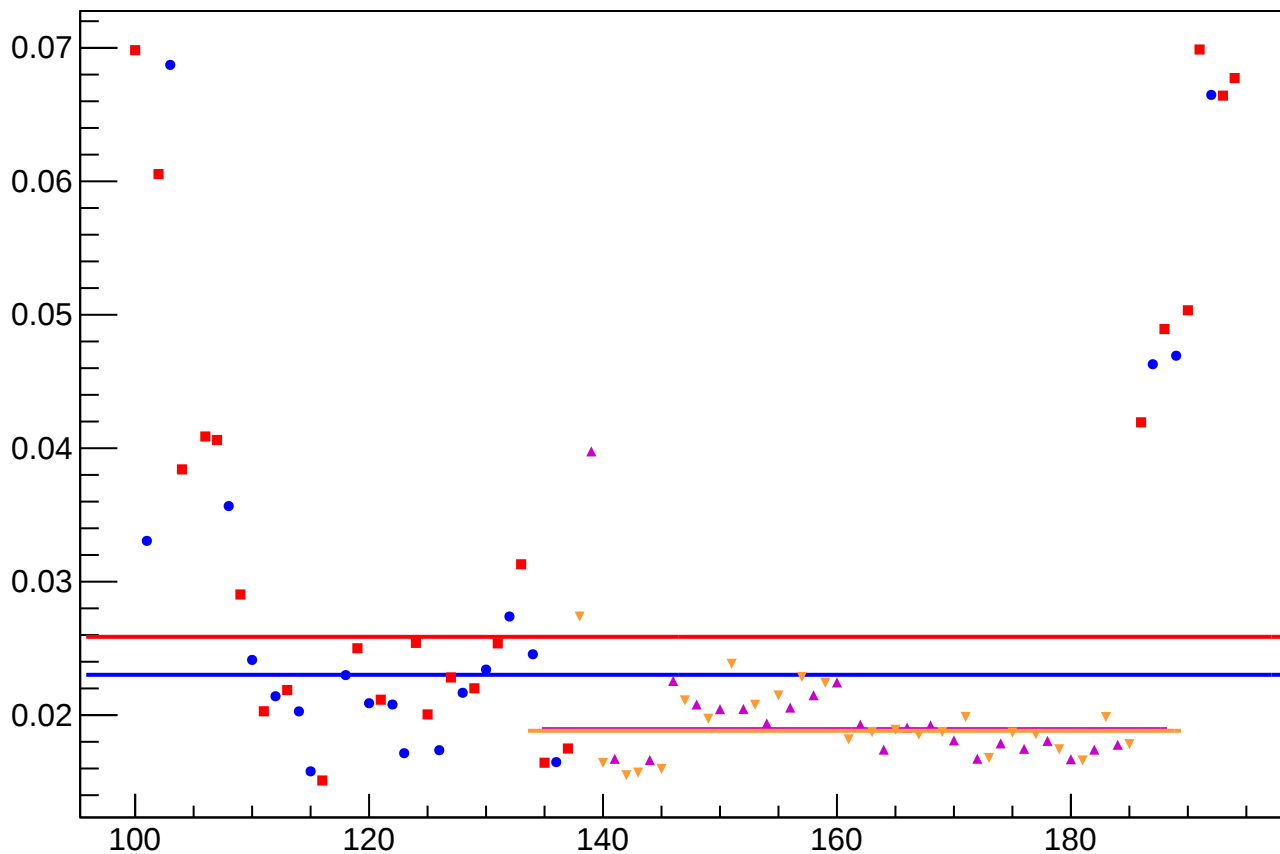
Right: -1.017+/-0.000 χ^2/NDF : 943755077.8/44

In: -0.884+/-0.000 χ^2/NDF :863802088.2/42

Out: -0.889+/-0.000 χ^2/NDF :1012703903.9/49

All: -0.886+/-0.000 χ^2/NDF : 1877256240.7/99

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.023 $\pm$ 0.000 χ^2/NDF : 2075419.3/19

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 490084.5/24

Right Out: 0.026 $\pm$ 0.000 χ^2/NDF : 3349983.7/24

Left In: 0.019 $\pm$ 0.000 χ^2/NDF : 645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2/NDF : 1135735.6/47

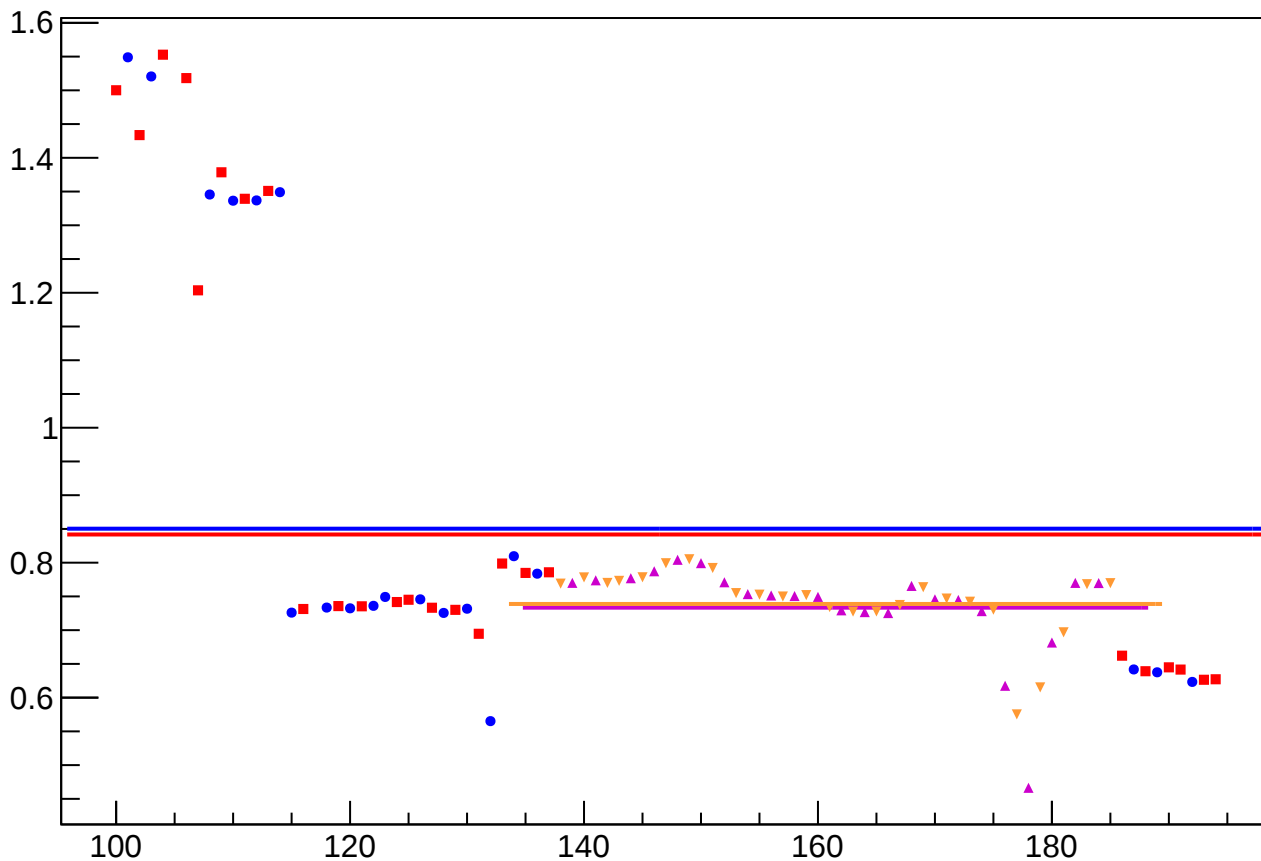
Right: 0.024 $\pm$ 0.000 χ^2/NDF : 5516263.9/44

In: 0.020 $\pm$ 0.000 χ^2/NDF : 3008712.5/42

Out: 0.020 $\pm$ 0.000 χ^2/NDF : 4719350.1/49

All: 0.020 $\pm$ 0.000 χ^2/NDF : 7739134.2/92

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.850+/-0.000 χ^2/NDF : 2727924894.2/19

Left Out: 0.739+/-0.000 χ^2/NDF : 333086309.0/24

Right Out: 0.842+/-0.000 χ^2/NDF : 3136291368.8/24

Left In: 0.733+/-0.000 χ^2/NDF : 570264411.7/22

Left: 0.736+/-0.000 χ^2/NDF : 905100069.4/47

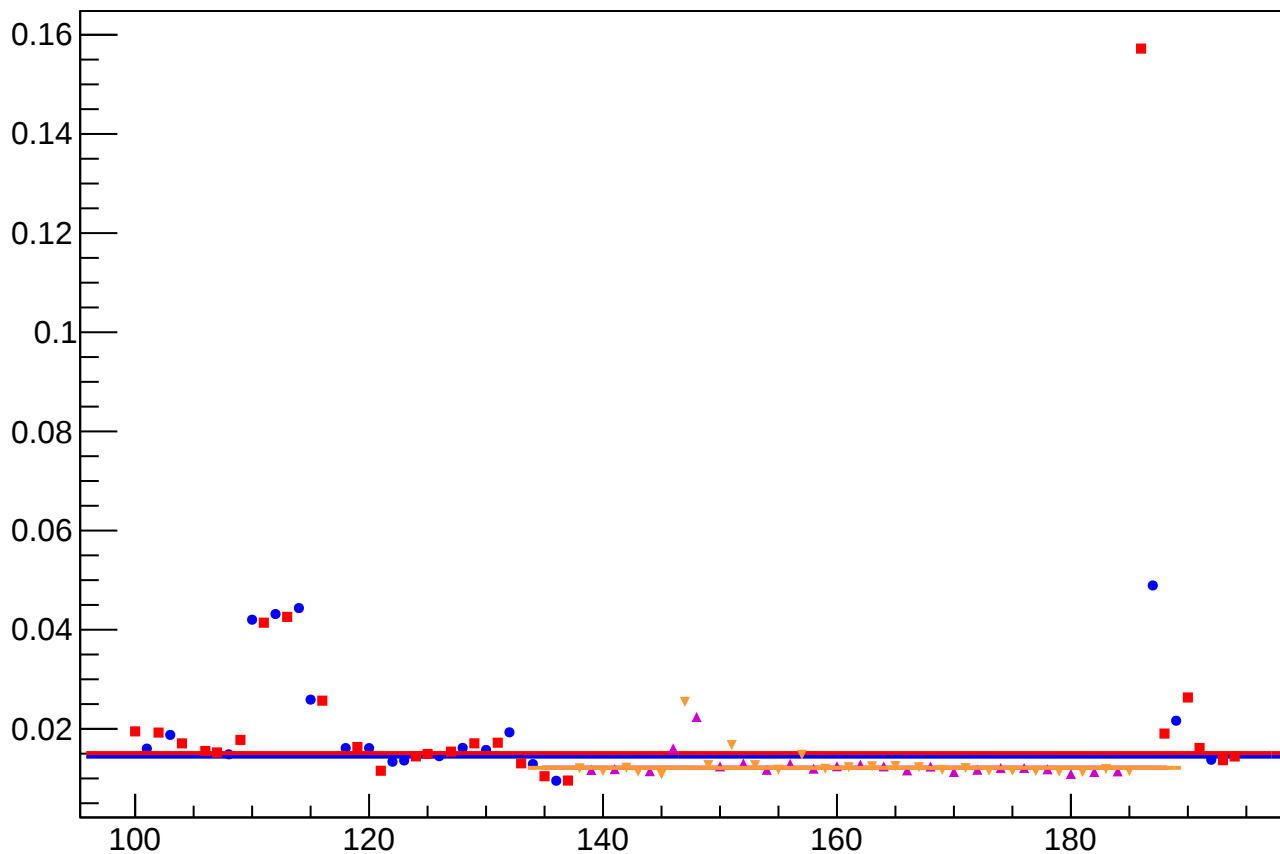
Right: 0.846+/-0.000 χ^2/NDF : 5865528974.2/44

In: 0.760+/-0.000 χ^2/NDF : 3648320475.8/42

Out: 0.764+/-0.000 χ^2/NDF : 3778534153.4/49

All: 0.762+/-0.000 χ^2/NDF : 7428143548.5/92

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 +/- 0.000 χ^2/NDF : 1632047.0/19

Left Out: 0.012 +/- 0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015 +/- 0.000 χ^2/NDF : 2052259.2/24

Left In: 0.012 +/- 0.000 χ^2/NDF : 481639.6/22

Left: 0.012 +/- 0.000 χ^2/NDF : 1120132.0/47

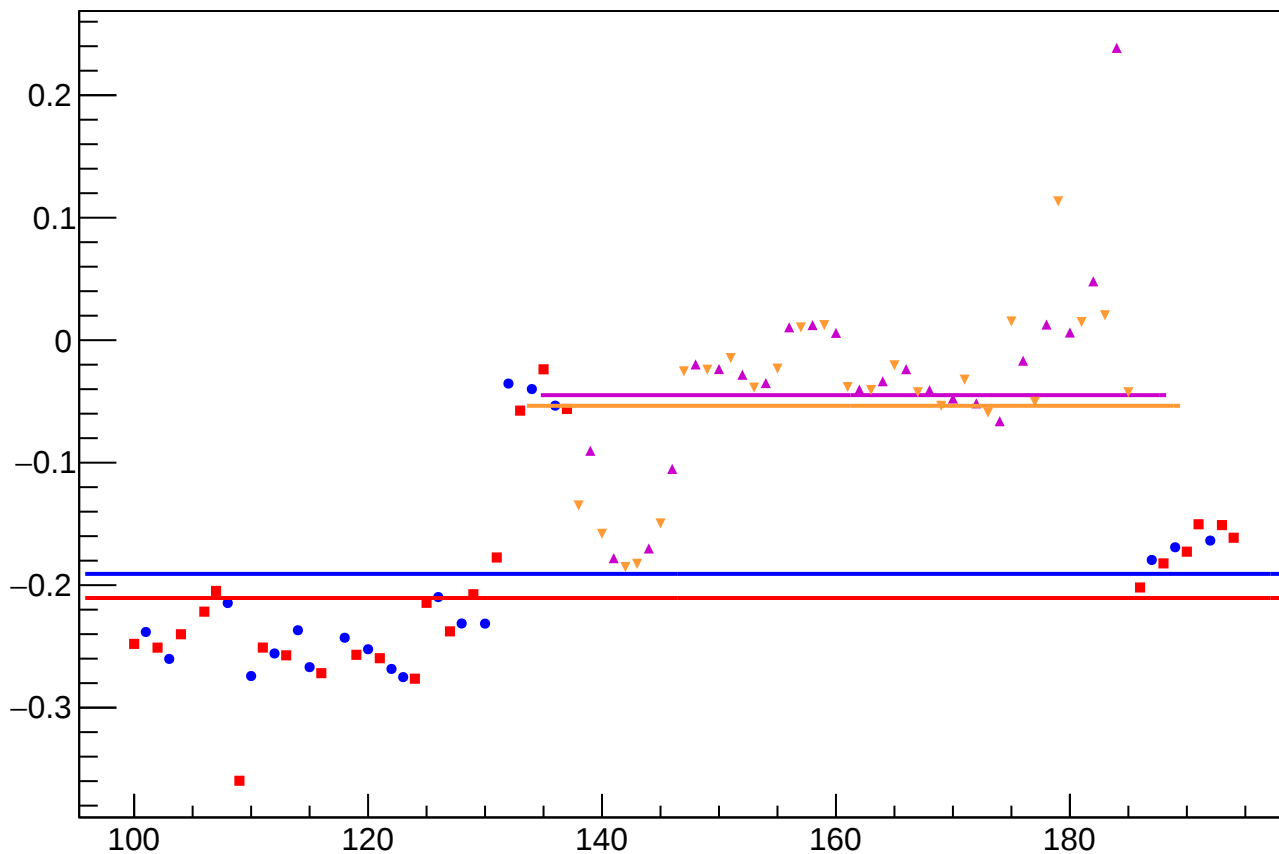
Right: 0.015 +/- 0.000 χ^2/NDF : 3702959.9/44

In: 0.013 +/- 0.000 χ^2/NDF : 2363117.9/42

Out: 0.013 +/- 0.000 χ^2/NDF : 3209144.0/49

All: 0.013 +/- 0.000 χ^2/NDF : 5577086.5/92

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191+/-0.000 χ^2/NDF : 106186093.6/19

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.210+/-0.000 χ^2/NDF : 111280709.6/24

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

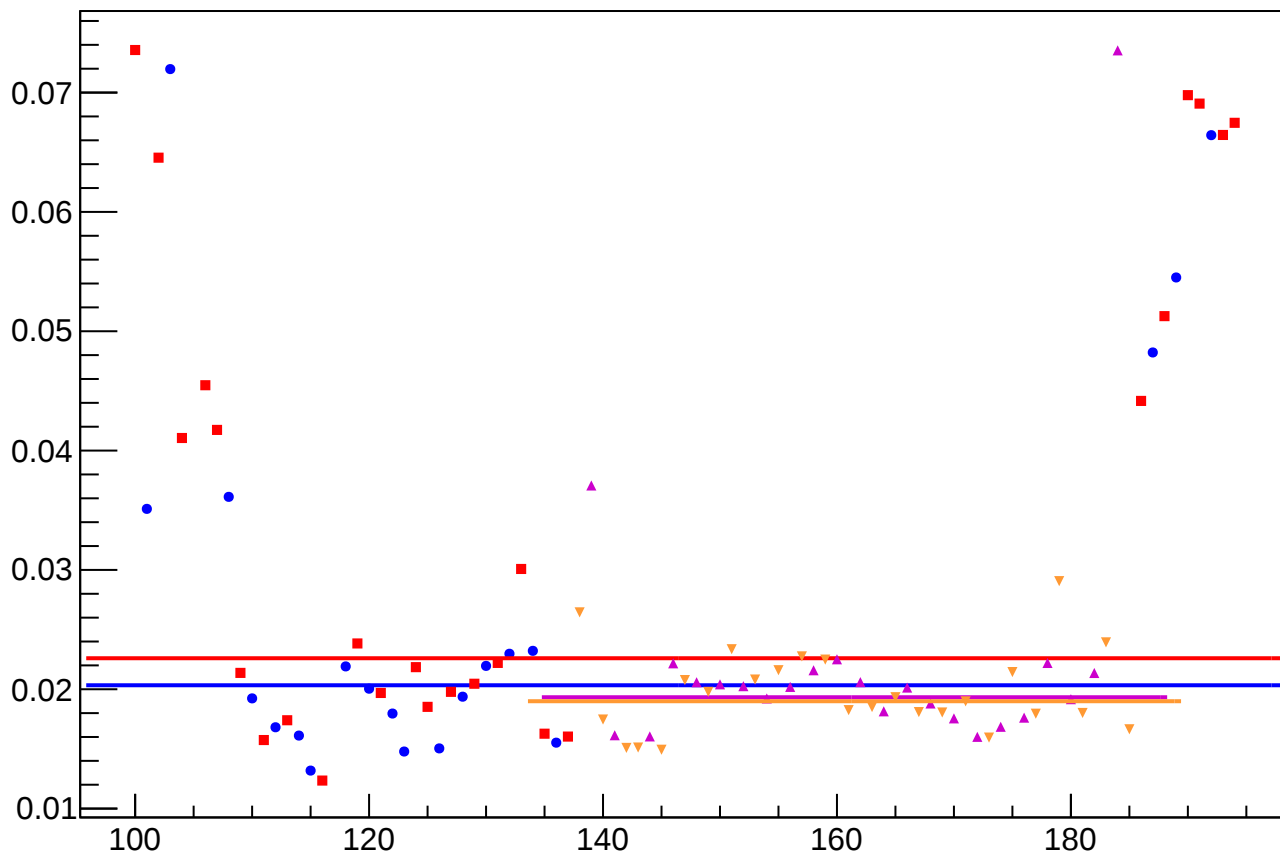
Right: -0.201+/-0.000 χ^2/NDF : 220159632.6/44

In: -0.084+/-0.000 χ^2/NDF : 448688520.3/42

Out: -0.094+/-0.000 χ^2/NDF : 534503293.6/49

All: -0.089+/-0.000 χ^2/NDF : 985471085.0/92

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2499822.5/19

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4230414.0/24

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

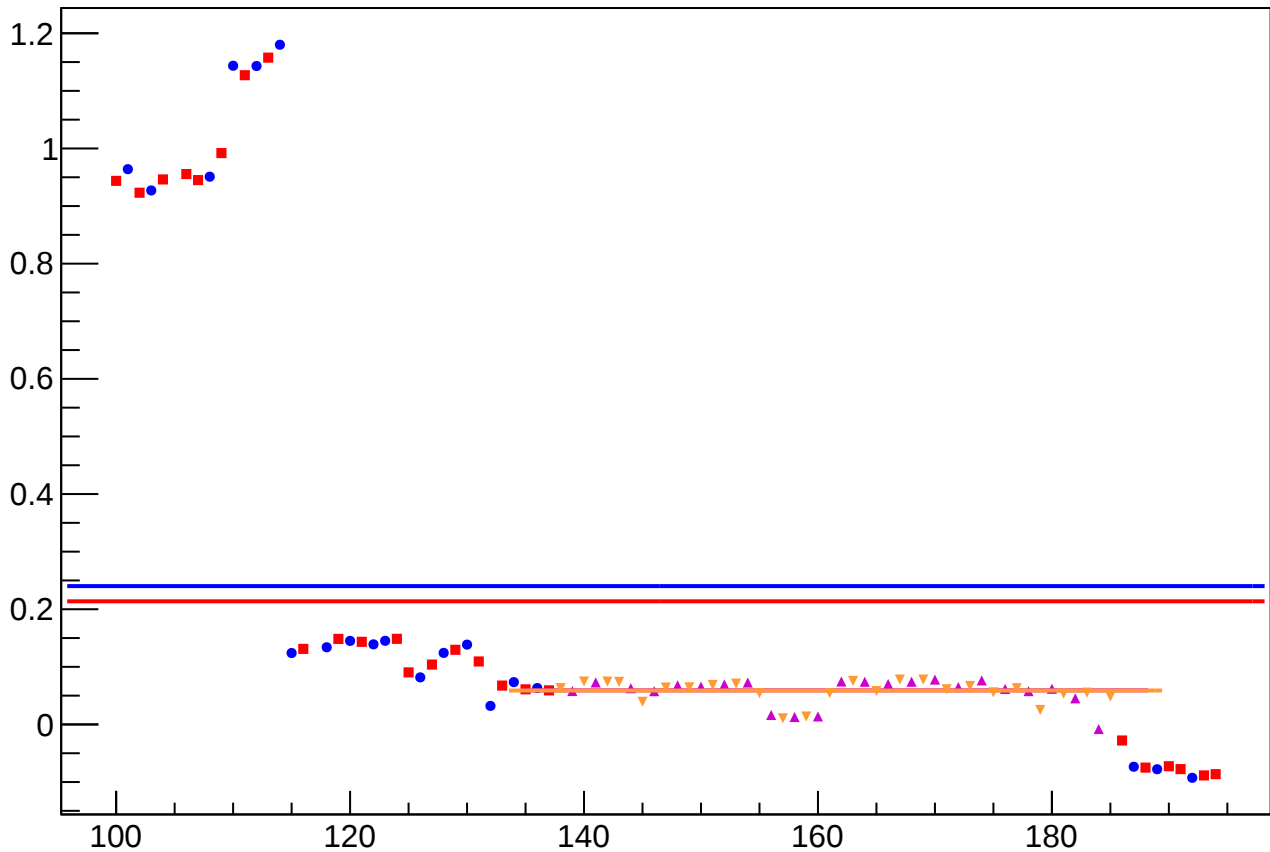
Right: 0.021+/-0.000 χ^2/NDF : 6801494.9/44

In: 0.020+/-0.000 χ^2/NDF : 3413016.2/42

Out: 0.020+/-0.000 χ^2/NDF : 5198883.0/49

All: 0.020+/-0.000 χ^2/NDF : 8617141.5/92

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.240 $\pm$ 0.000 χ^2 /NDF: 6073363266.0/19

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.214 $\pm$ 0.000 χ^2 /NDF: 7443693817.5/24

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58640898.5/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105549886.8/47

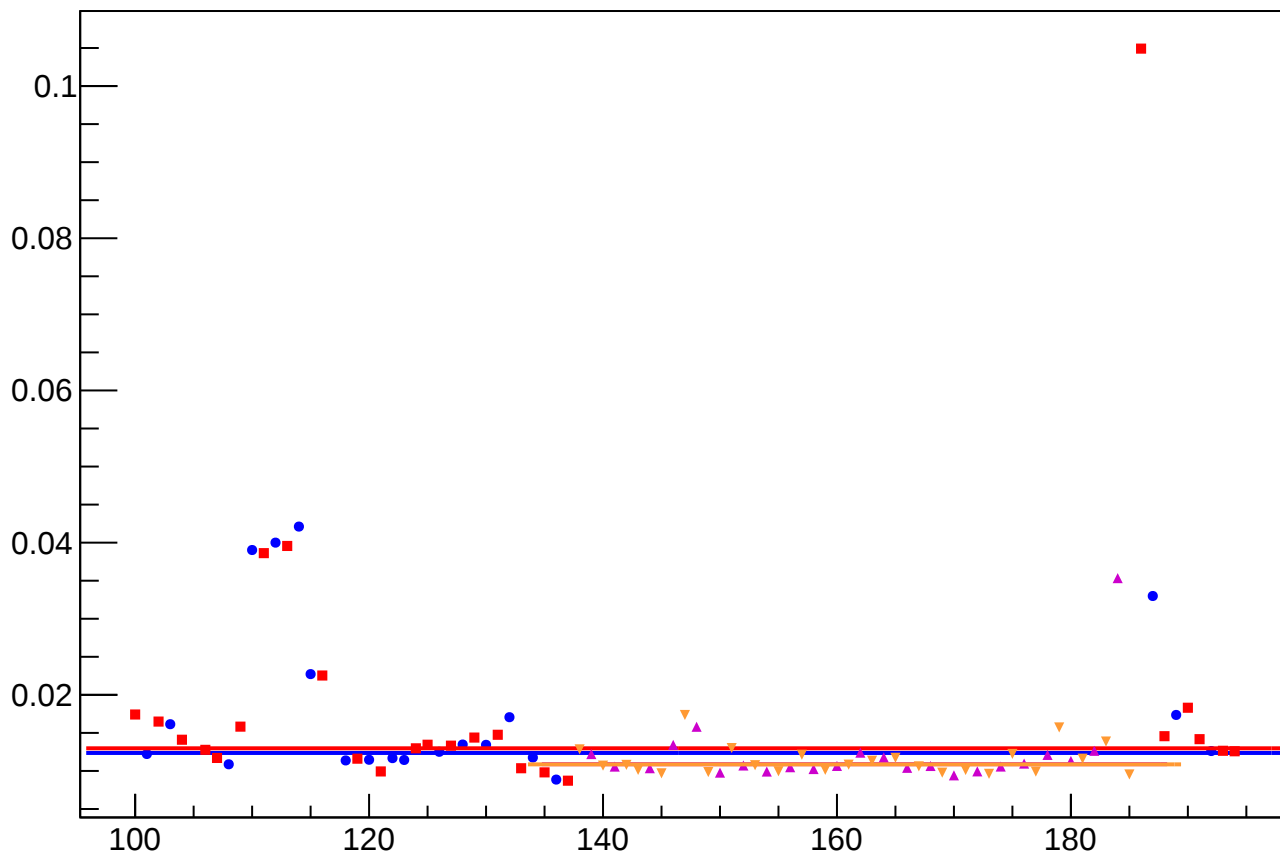
Right: 0.226 $\pm$ 0.000 χ^2 /NDF: 13534054115.5/44

In: 0.104 $\pm$ 0.000 χ^2 /NDF: 7248044000.9/42

Out: 0.100 $\pm$ 0.000 χ^2 /NDF: 8413970481.4/49

All: 0.102 $\pm$ 0.000 χ^2 /NDF: 15663510688.5/99

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1459953.2/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:605519.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1872184.0/24

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:529867.3/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1135492.7/47

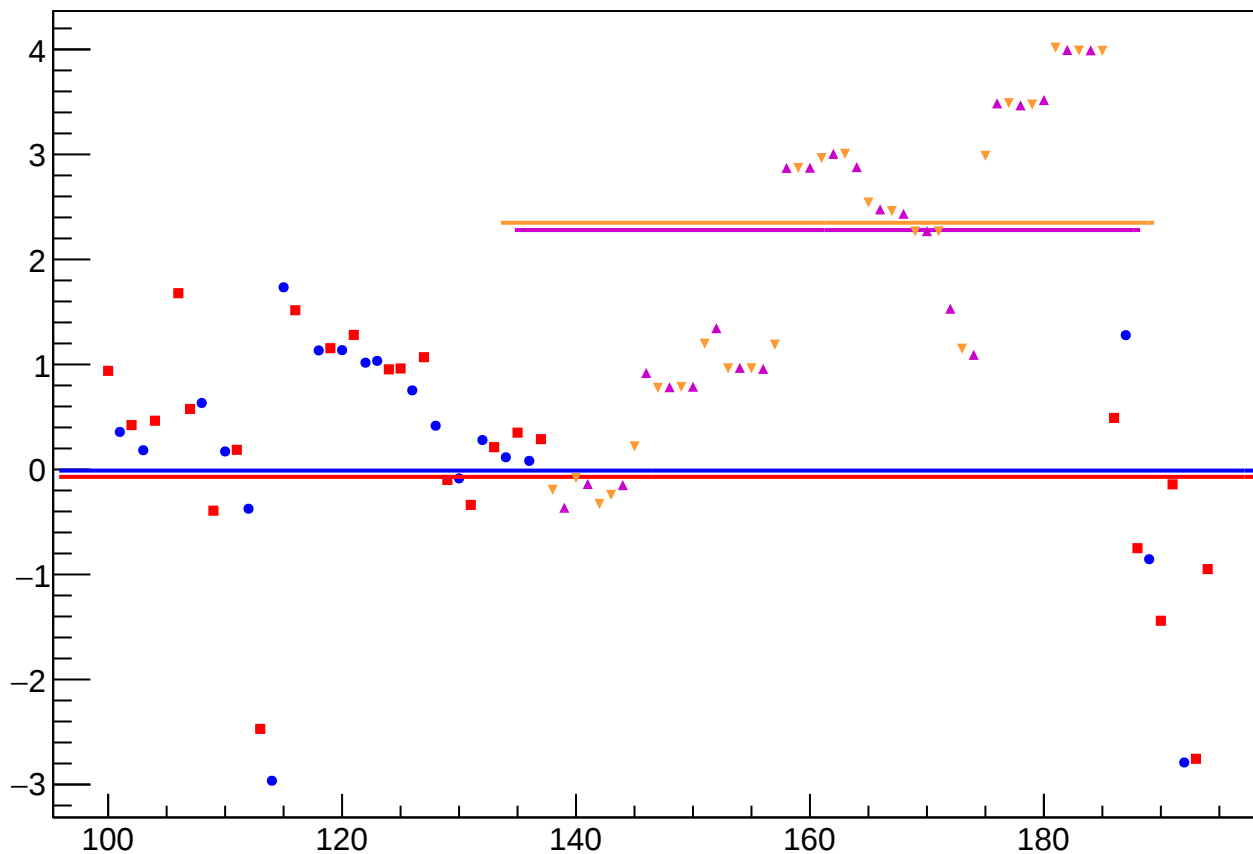
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3350302.1/44

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2137365.6/42

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2820524.4/49

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4963339.8/92

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.011 ± 0.000 $\chi^2/\text{NDF}: 2535341168.7/19$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.071 ± 0.000 $\chi^2/\text{NDF}: 3271010230.2/24$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

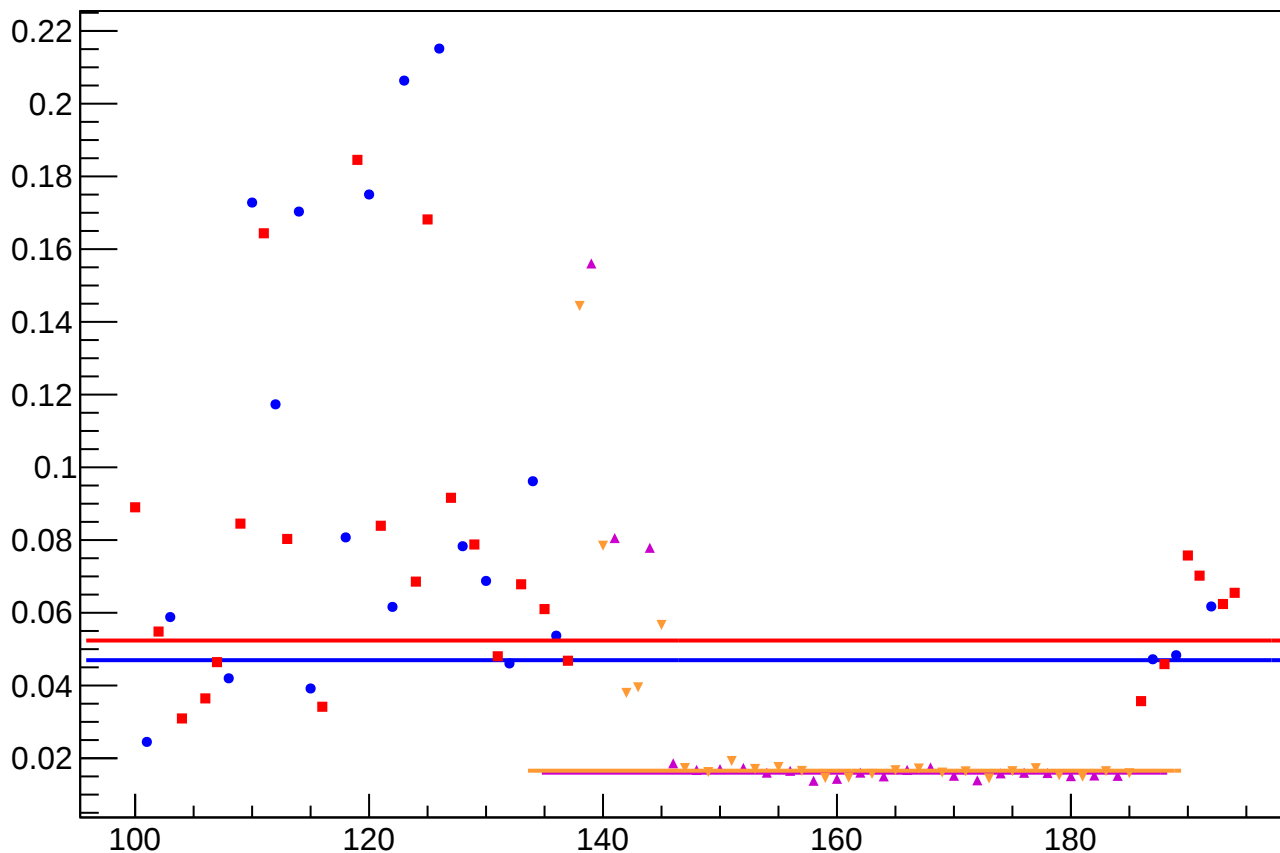
Right: -0.043 ± 0.000 $\chi^2/\text{NDF}: 5810629993.3/44$

In: 2.188 ± 0.000 $\chi^2/\text{NDF}: 75046825006.1/42$

Out: 2.232 ± 0.000 $\chi^2/\text{NDF}: 81419050700.0/49$

All: 2.210 ± 0.000 $\chi^2/\text{NDF}: 156519033793.3$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.047+/-0.000 χ^2/NDF : 2890396.2/19

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.052+/-0.000 χ^2/NDF : 2551724.6/24

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

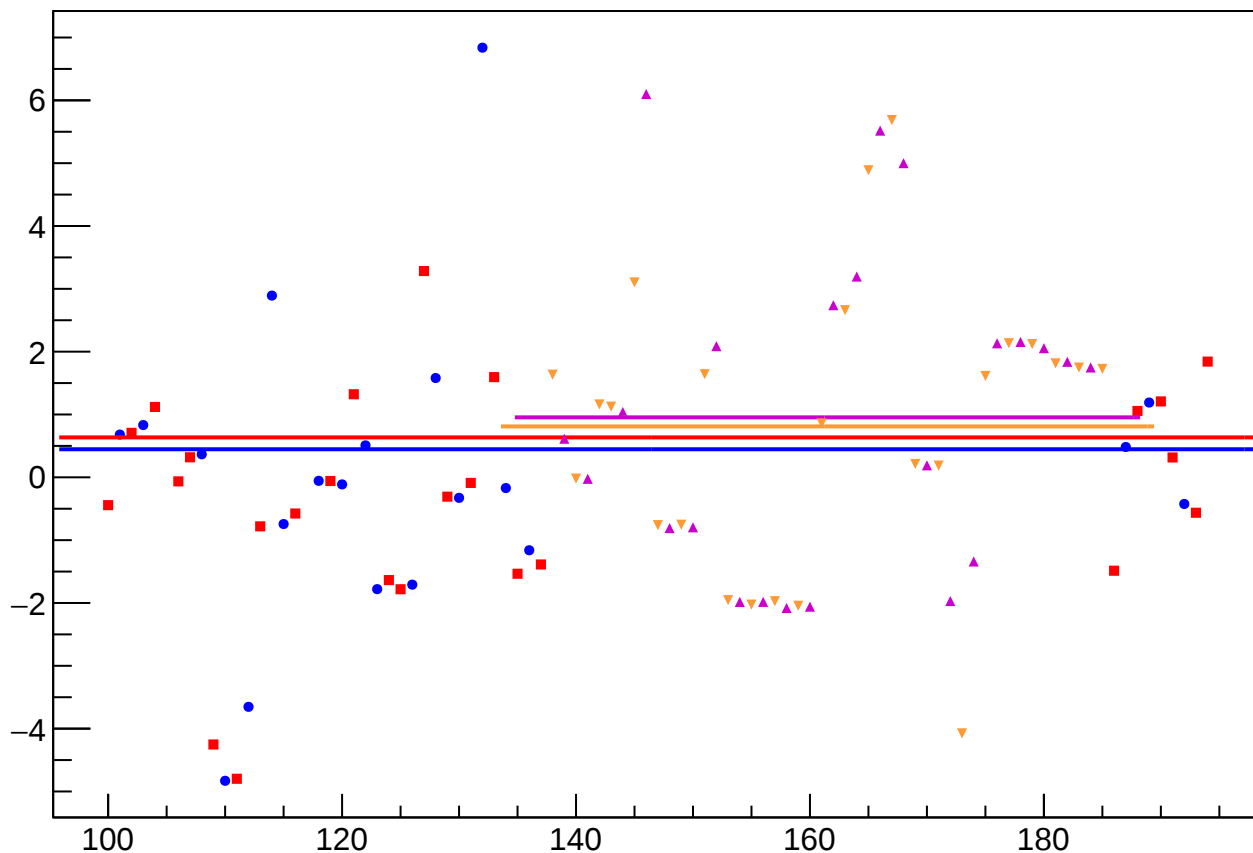
Right: 0.050+/-0.000 χ^2/NDF : 5511862.6/44

In: 0.017+/-0.000 χ^2/NDF : 9391711.5/42

Out: 0.018+/-0.000 χ^2/NDF : 11542273.8/49

All: 0.018+/-0.000 χ^2/NDF : 20991906.3/92

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.447 $\pm$ 0.000 χ^2 /NDF: 13728449066.0/19

Left Out: 0.810 $\pm$ 0.000 χ^2 /NDF: 507583198570.2/24

Right Out: 0.635 $\pm$ 0.000 χ^2 /NDF: 10979960922.7/24

Left In: 0.954 $\pm$ 0.000 χ^2 /NDF: 574792794608.3/22

Left: 0.883 $\pm$ 0.000 χ^2 /NDF: 1083260277372.9/47

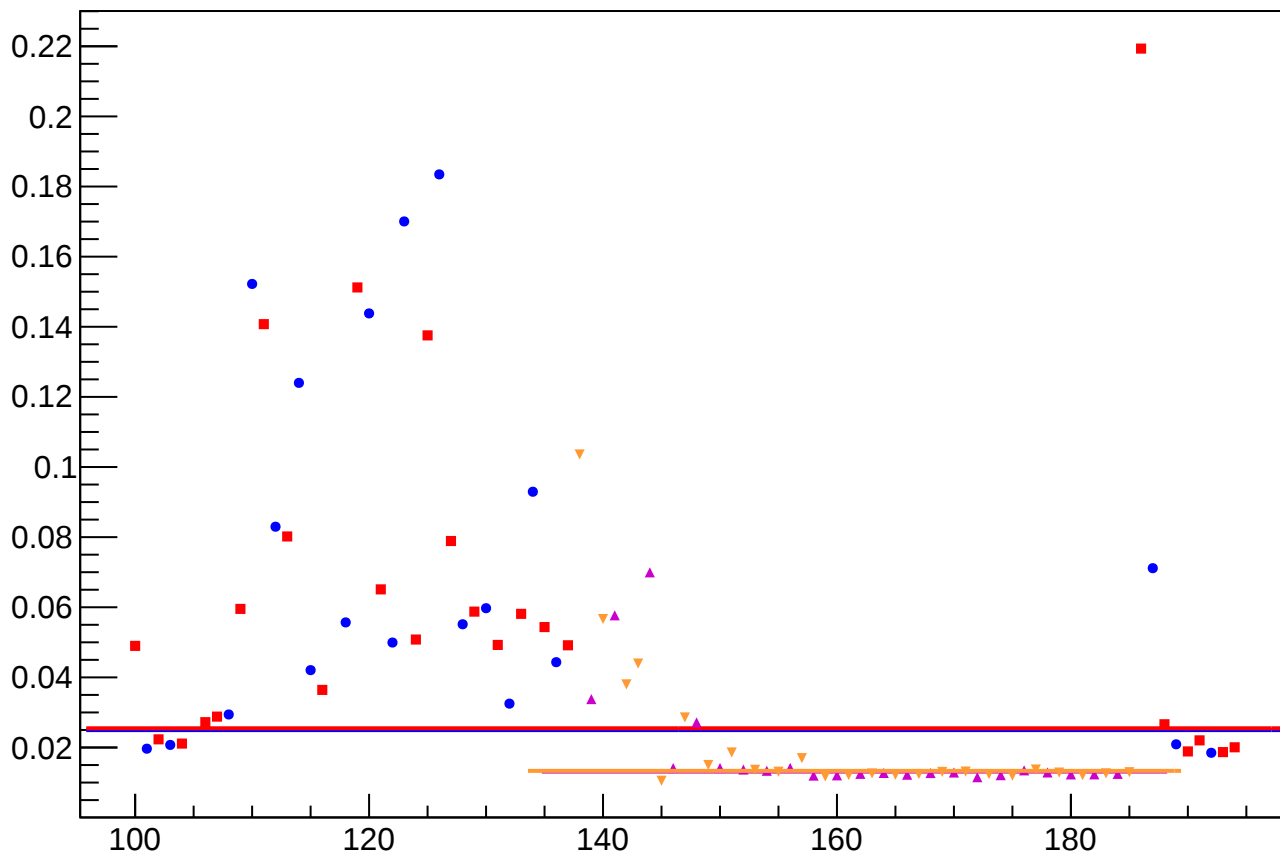
Right: 0.554 $\pm$ 0.000 χ^2 /NDF: 24852593146.3/44

In: 0.915 $\pm$ 0.000 χ^2 /NDF: 590207680276.6/42

Out: 0.793 $\pm$ 0.000 χ^2 /NDF: 518822749892.9/49

All: 0.854 $\pm$ 0.000 χ^2 /NDF: 1109733799176.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 3457121.6/19

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.025+/-0.000 χ^2/NDF : 4394193.3/24

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

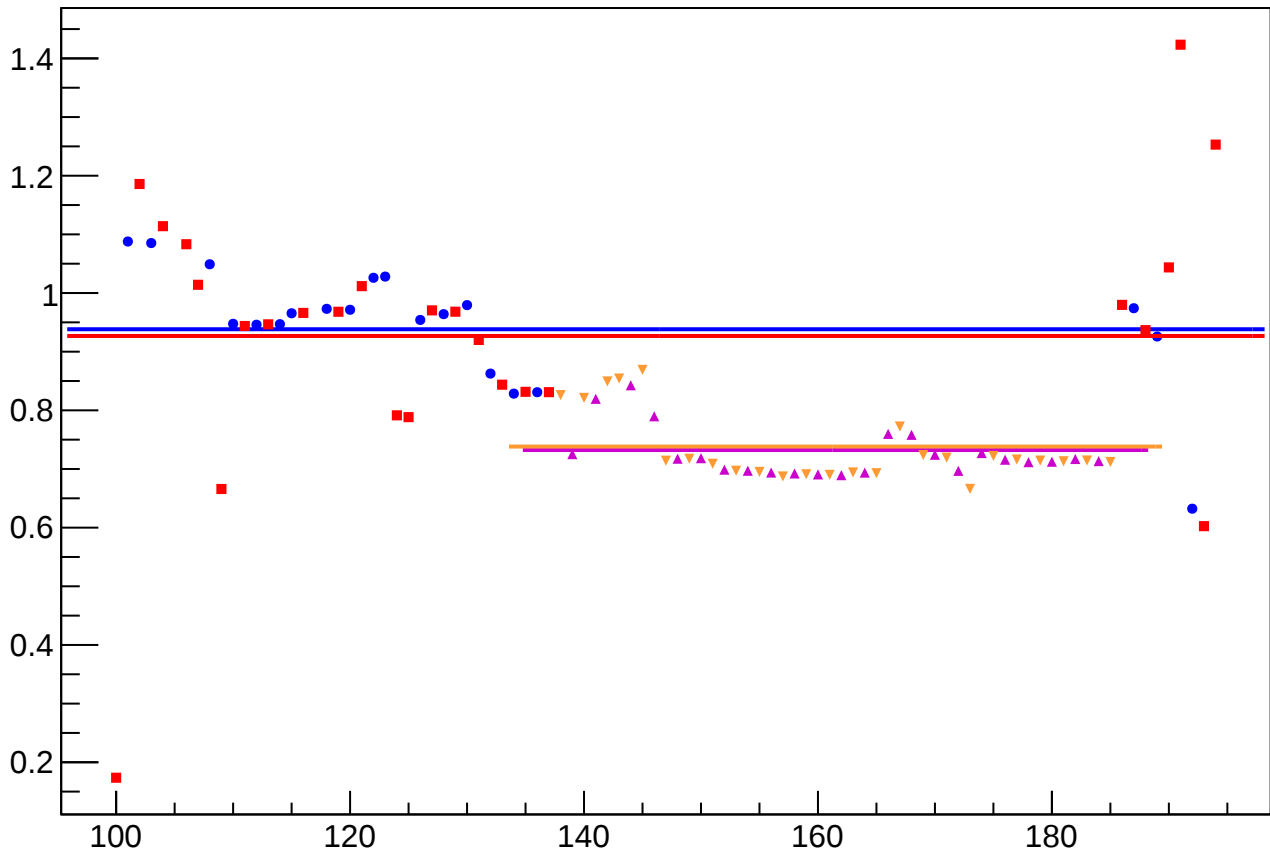
Right: 0.025+/-0.000 χ^2/NDF : 7853495.9/44

In: 0.014+/-0.000 χ^2/NDF : 7257019.5/42

Out: 0.015+/-0.000 χ^2/NDF : 9725786.3/49

All: 0.014+/-0.000 χ^2/NDF : 17007401.8/92

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.938+/-0.000 χ^2/NDF : 298477349.9/19

Left Out: 0.738+/-0.000 χ^2/NDF :310610047.7/24

Right Out: 0.927+/-0.000 χ^2/NDF : 660516866.4/24

Left In: 0.732+/-0.000 χ^2/NDF :170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

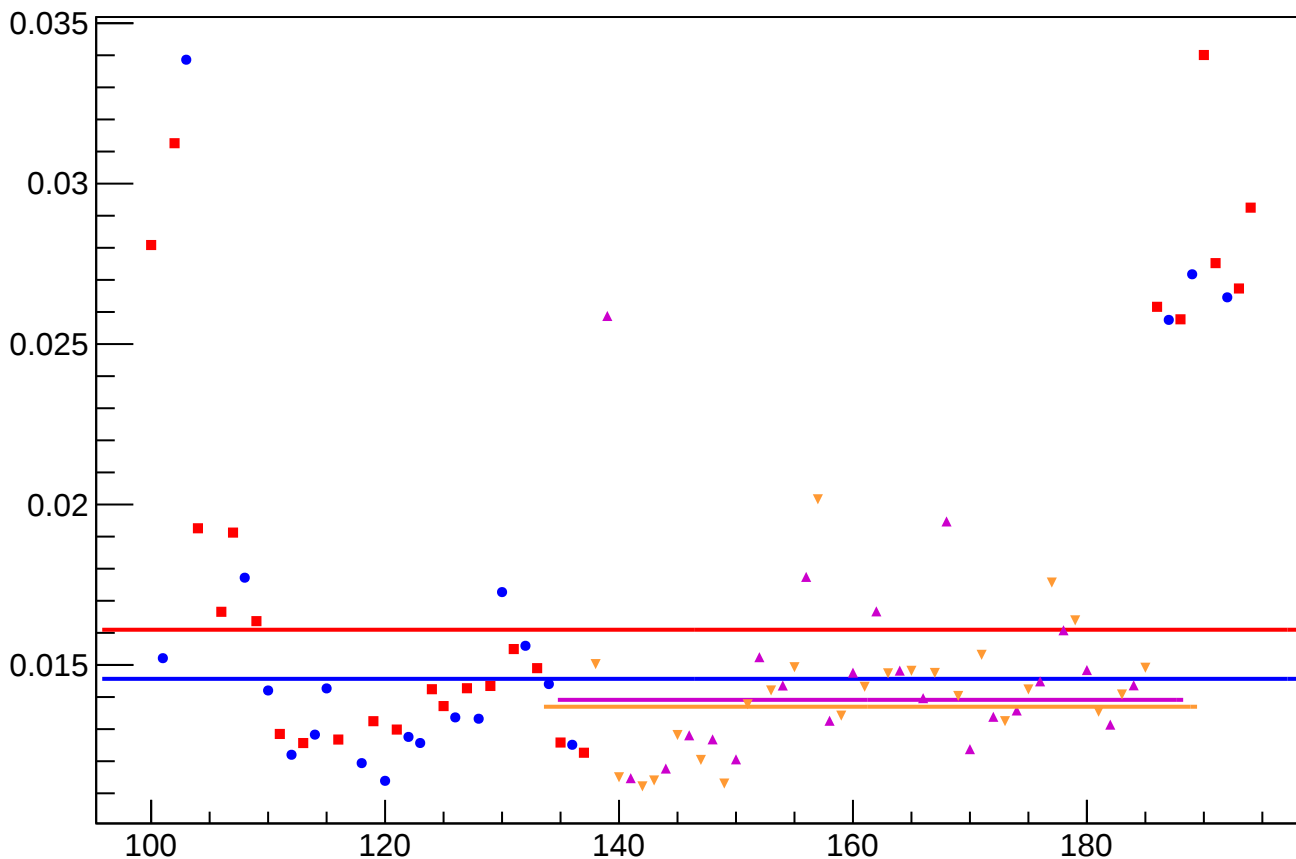
Right: 0.932+/-0.000 χ^2/NDF : 961163716.6/44

In: 0.791+/-0.000 χ^2/NDF :1446737740.5/42

Out: 0.791+/-0.000 χ^2/NDF :1831416203.7/49

All: 0.791+/-0.000 χ^2/NDF : 3278162919.0/92

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1164991.0/19

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1847581.0/24

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

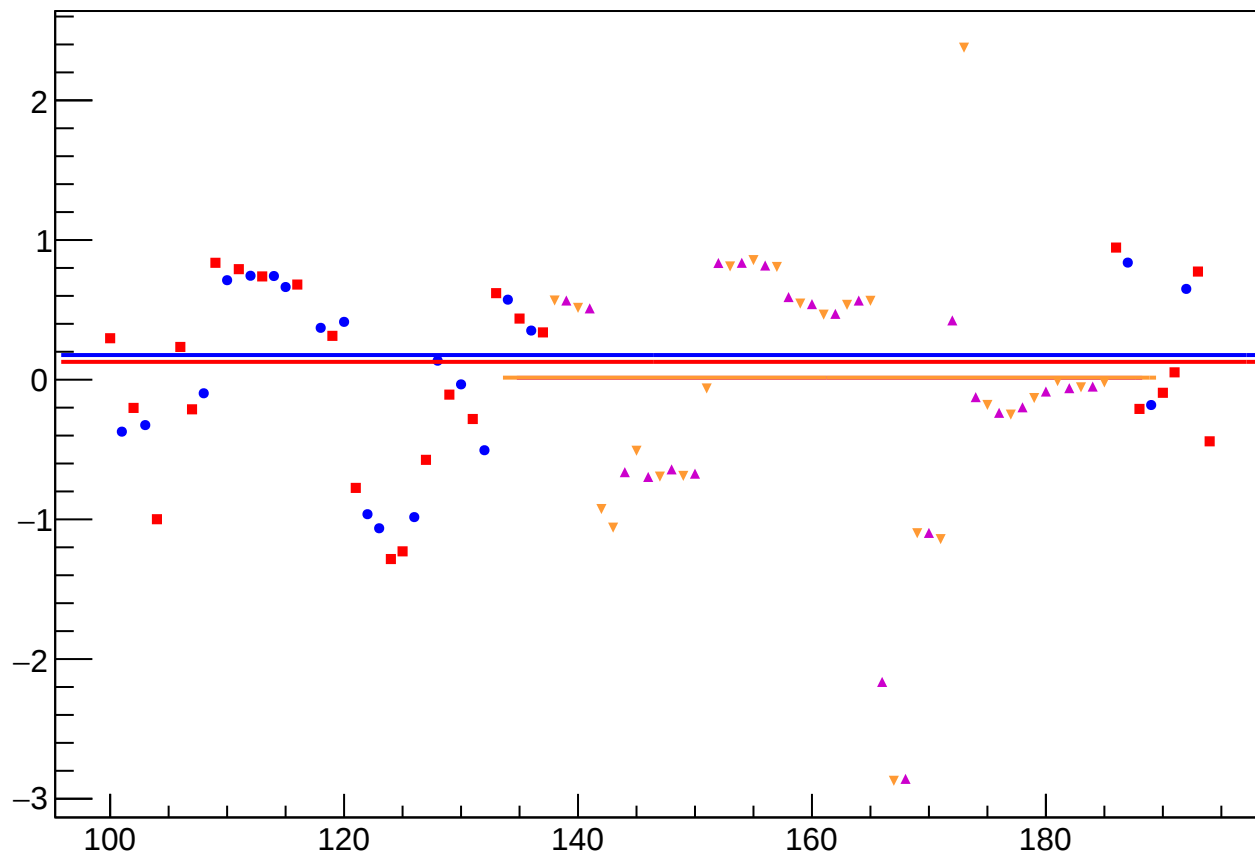
Right: 0.015+/-0.000 χ^2/NDF : 3089743.0/44

In: 0.014+/-0.000 χ^2/NDF : 1979285.2/42

Out: 0.014+/-0.000 χ^2/NDF : 2657101.8/49

All: 0.014+/-0.000 χ^2/NDF : 4644800.7/92

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.176+/-0.000 χ^2/NDF : 9162071315.7/19

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: 0.128+/-0.000 χ^2/NDF : 18021843448.9/24

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

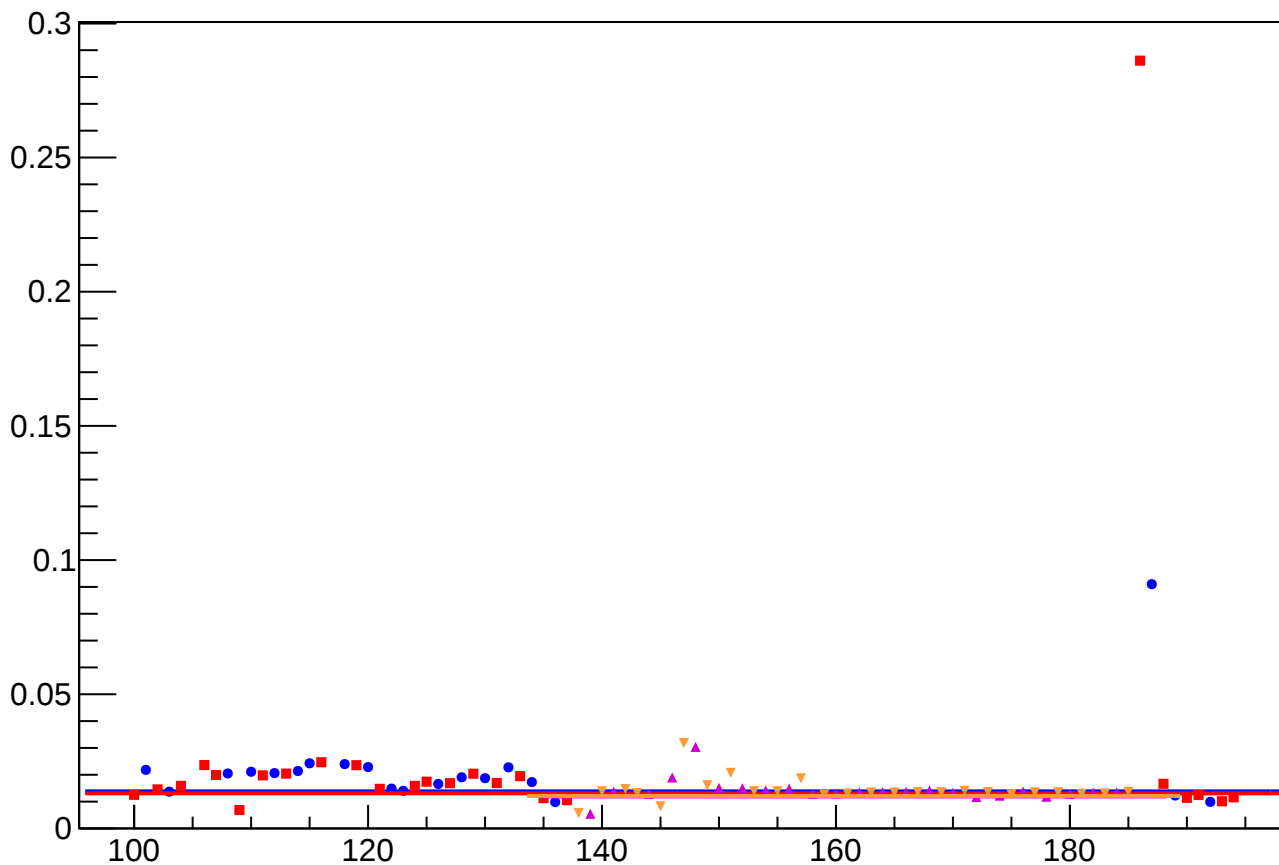
Right: 0.148+/-0.000 χ^2/NDF : 27231746513.5/44

In: 0.053+/-0.000 χ^2/NDF : 89308642893.8/42

Out: 0.049+/-0.000 χ^2/NDF : 114534046716.3/49

All: 0.051+/-0.000 χ^2/NDF : 203844037185.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1748900.9/19

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3107648.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2457924.3/24

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3105948.8/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6217411.2/47

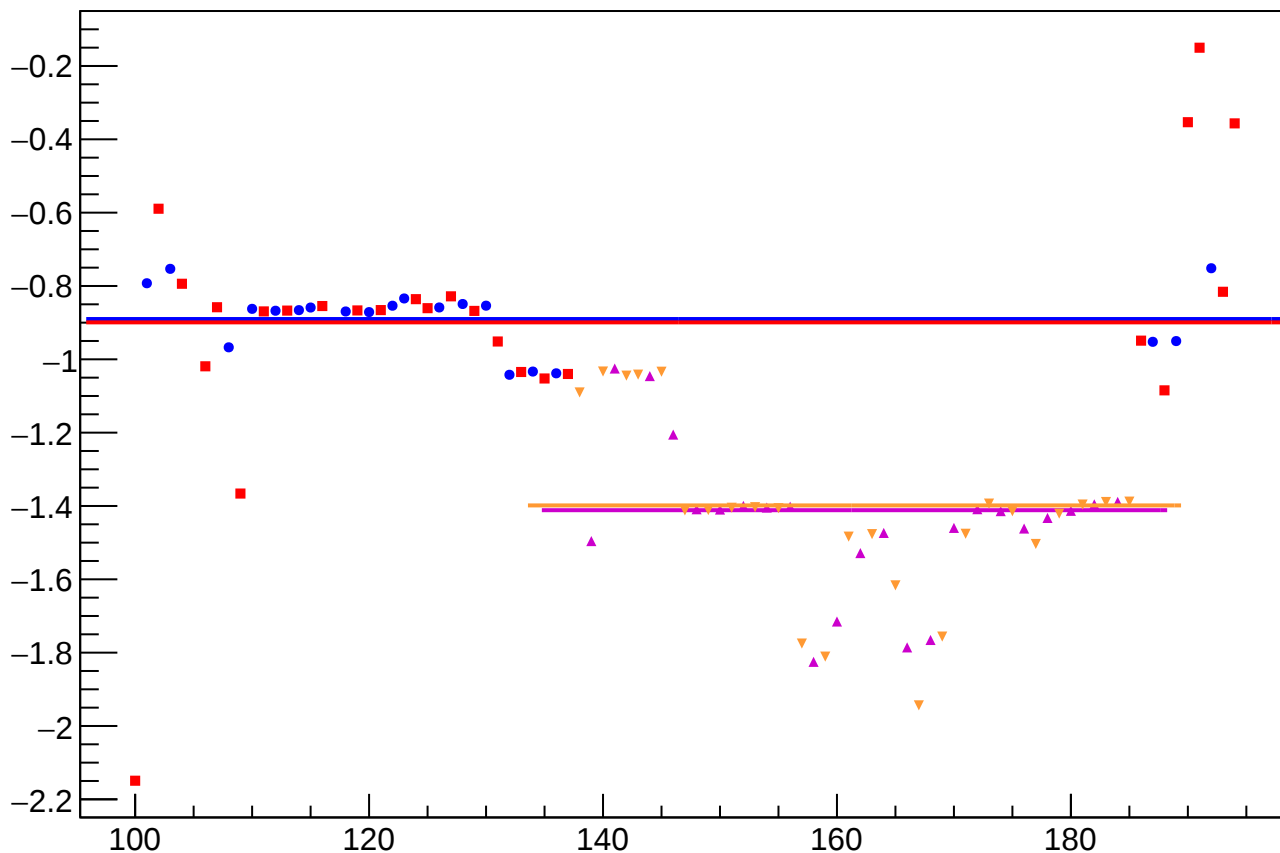
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4228169.4/44

In: 0.012 $\pm$ 0.000 χ^2 /NDF:5040426.2/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5627427.4/49

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10667898.7/92

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.890 ± 0.000 $\chi^2/\text{NDF}: 43809356.8/19$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.899 ± 0.000 $\chi^2/\text{NDF}: 242331126.6/24$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

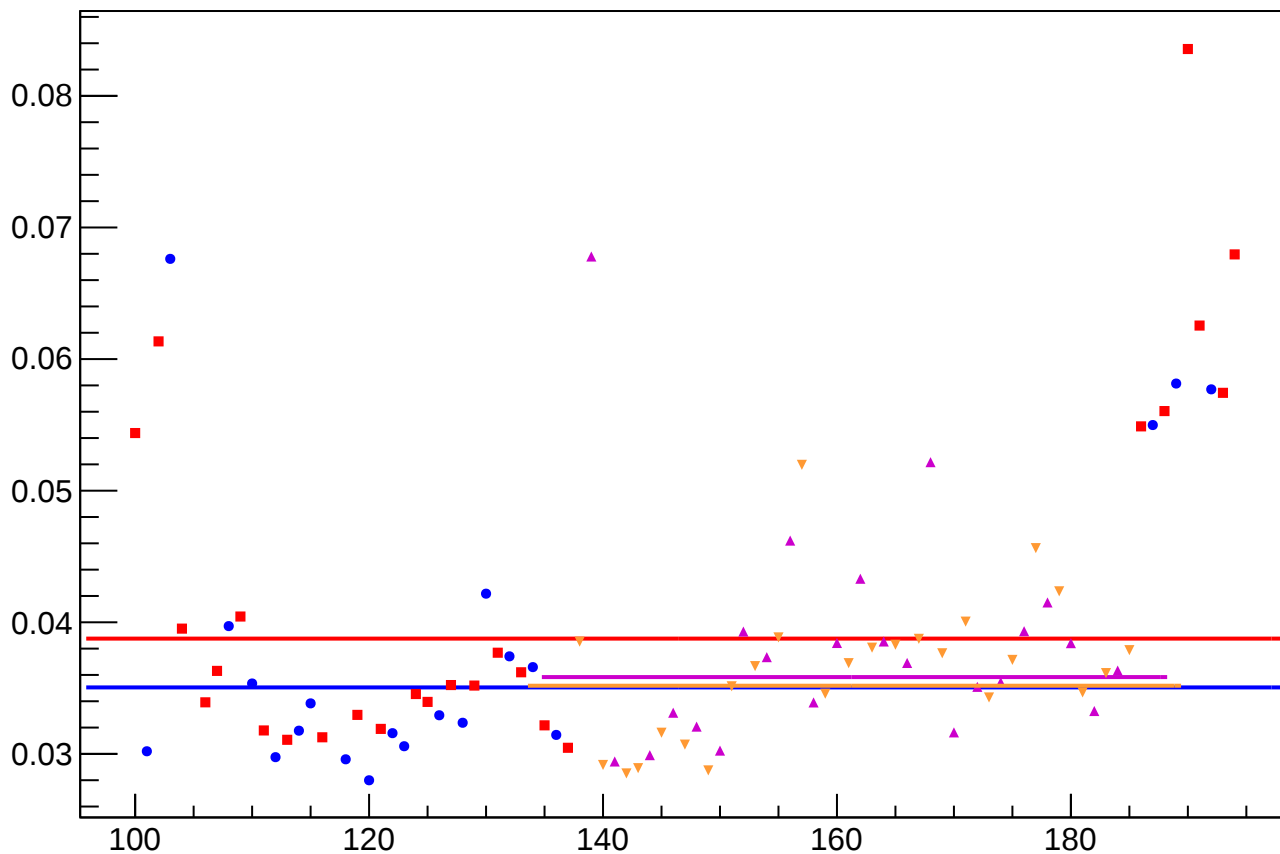
Right: -0.895 ± 0.000 $\chi^2/\text{NDF}: 286380517.7/44$

In: -1.244 ± 0.000 $\chi^2/\text{NDF}: 1604805582.8/42$

Out: -1.242 ± 0.000 $\chi^2/\text{NDF}: 1990829341.4/49$

All: -1.243 ± 0.000 $\chi^2/\text{NDF}: 3595657228.7/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.035+/-0.000 χ^2/NDF : 873043.1/19

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.039+/-0.000 χ^2/NDF : 1364985.5/24

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

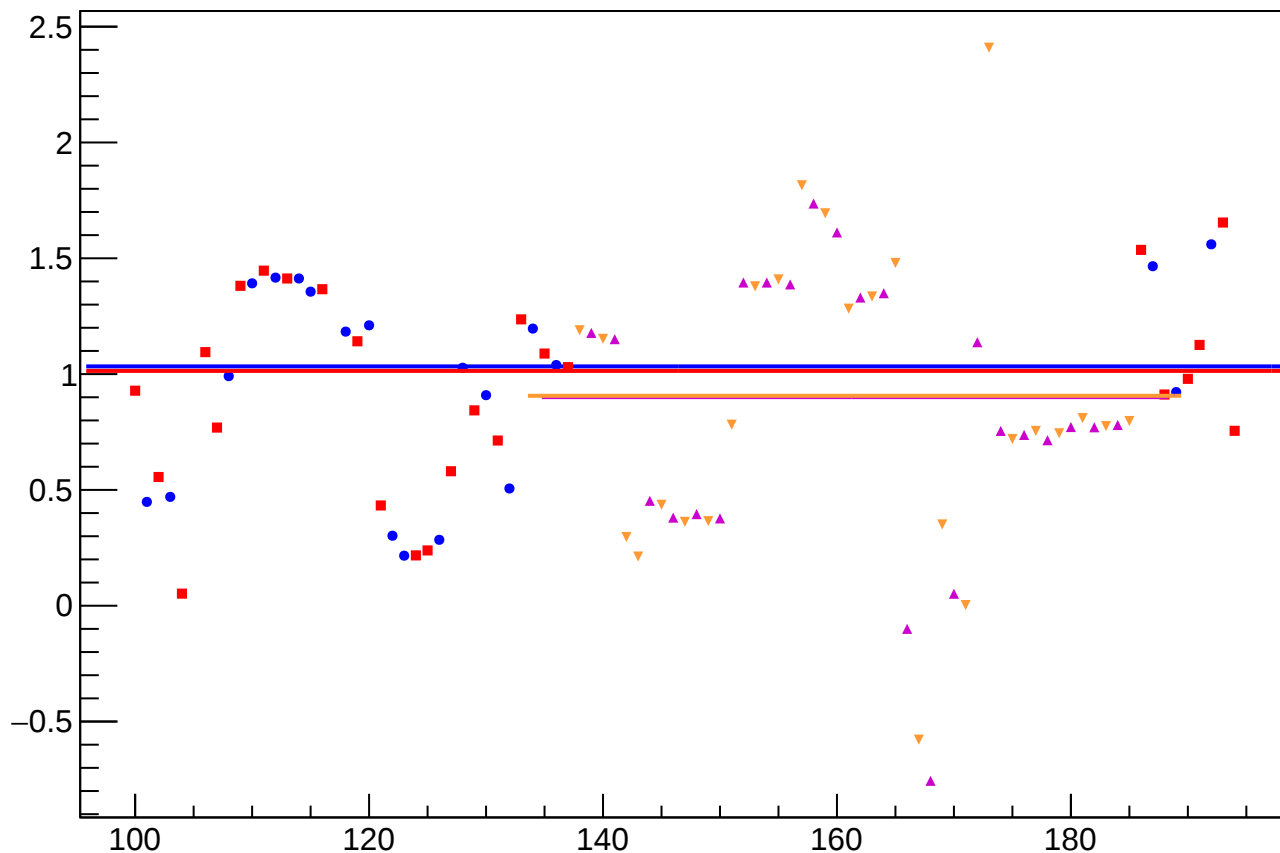
Right: 0.037+/-0.000 χ^2/NDF : 2317856.4/44

In: 0.036+/-0.000 χ^2/NDF : 1768795.7/42

Out: 0.036+/-0.000 χ^2/NDF : 2067157.2/49

All: 0.036+/-0.000 χ^2/NDF : 3845357.3/92

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.033+/-0.000

χ^2/NDF : 12391586471.6/19

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.022+/-0.000 χ^2/NDF : 28965936970.4/44

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.935+/-0.000 χ^2/NDF : 80274882137.0/42

Right Out: 1.014+/-0.000

χ^2/NDF : 16558865998.2/24

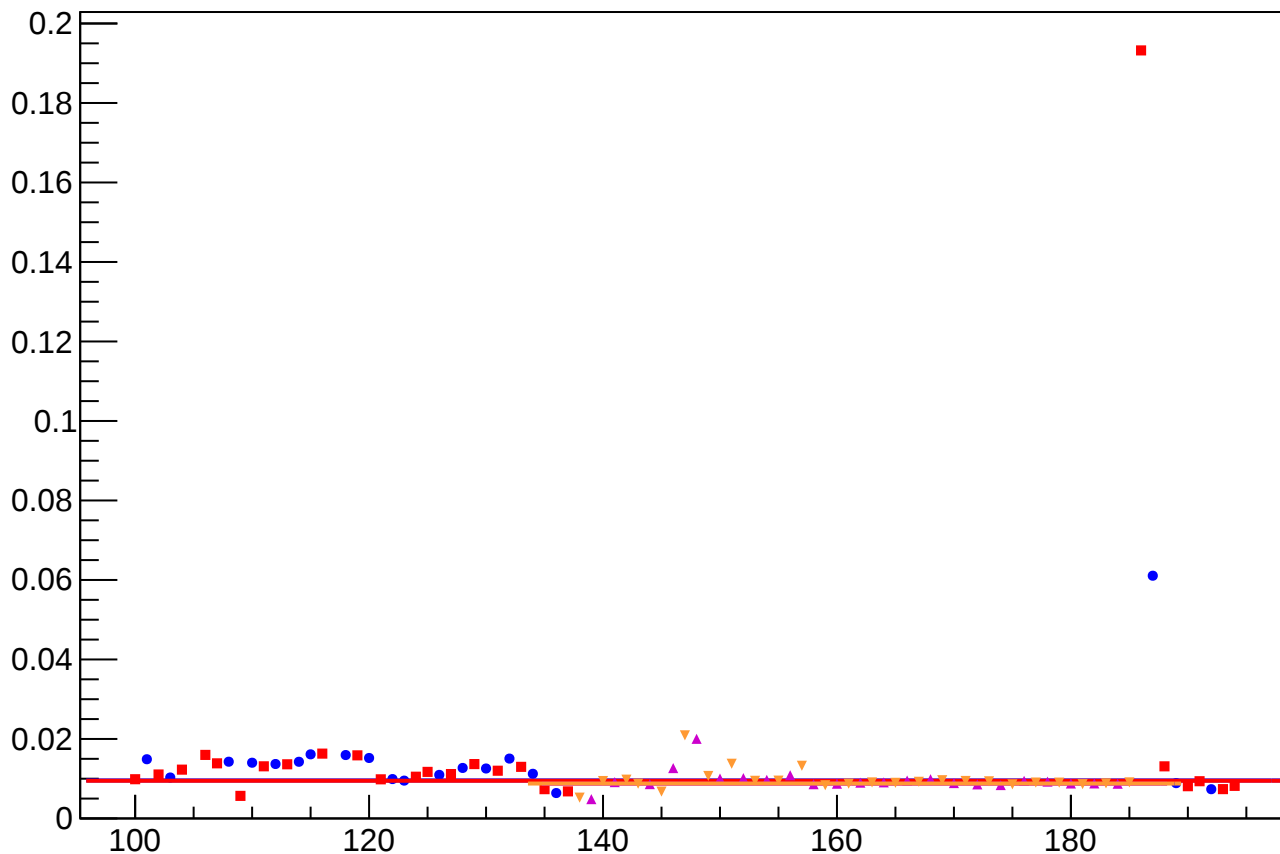
Out: 0.939+/-0.000 χ^2/NDF : 101425091626.8/49

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.937+/-0.000 χ^2/NDF : 181701805580.6

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1623370.1/19

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2123918.4/24

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

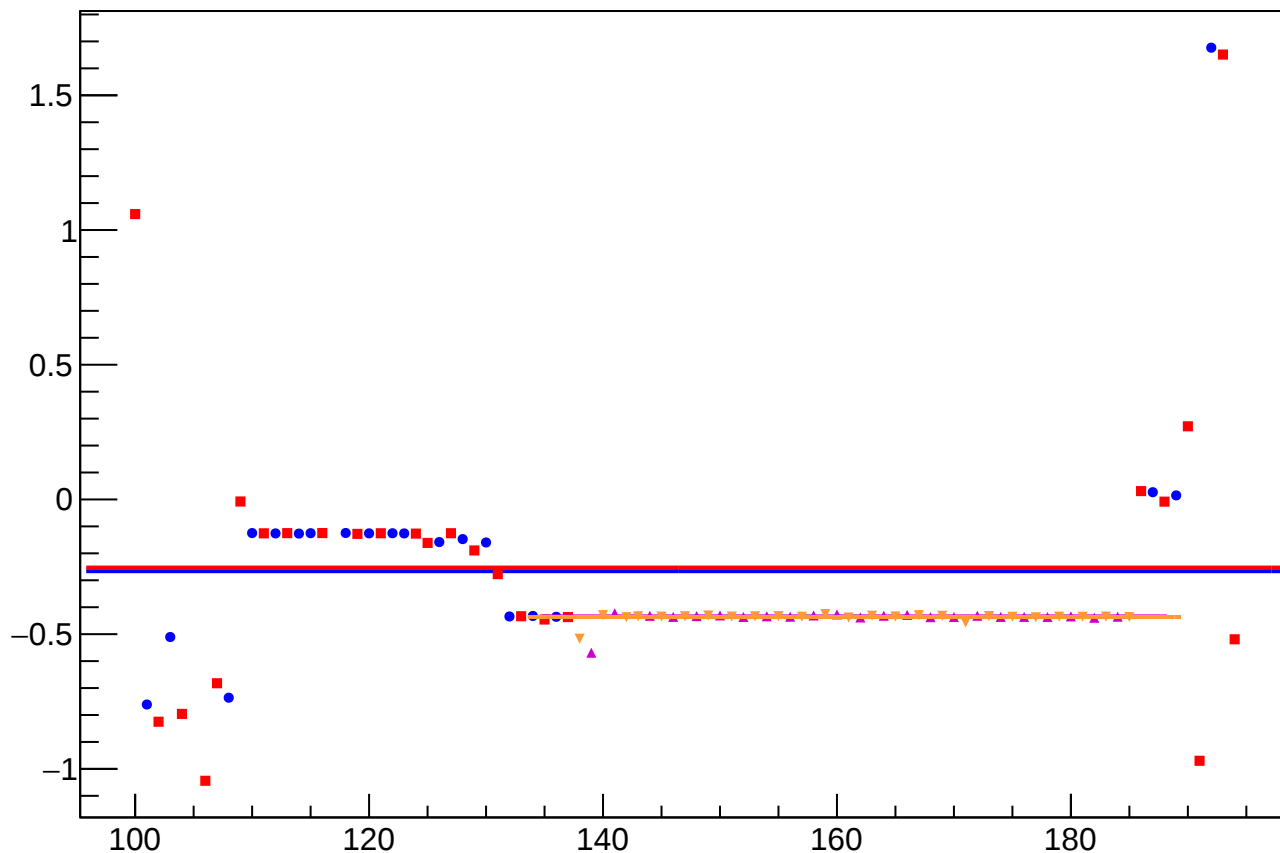
Right: 0.010+/-0.000 χ^2/NDF : 3747885.1/44

In: 0.009+/-0.000 χ^2/NDF : 3368443.5/42

Out: 0.009+/-0.000 χ^2/NDF : 3886763.0/49

All: 0.009+/-0.000 χ^2/NDF : 7255715.8/92

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.266+/-0.000 χ^2/NDF : 1851391905.2/19

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.253+/-0.000 χ^2/NDF : 1761532120.5/24

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

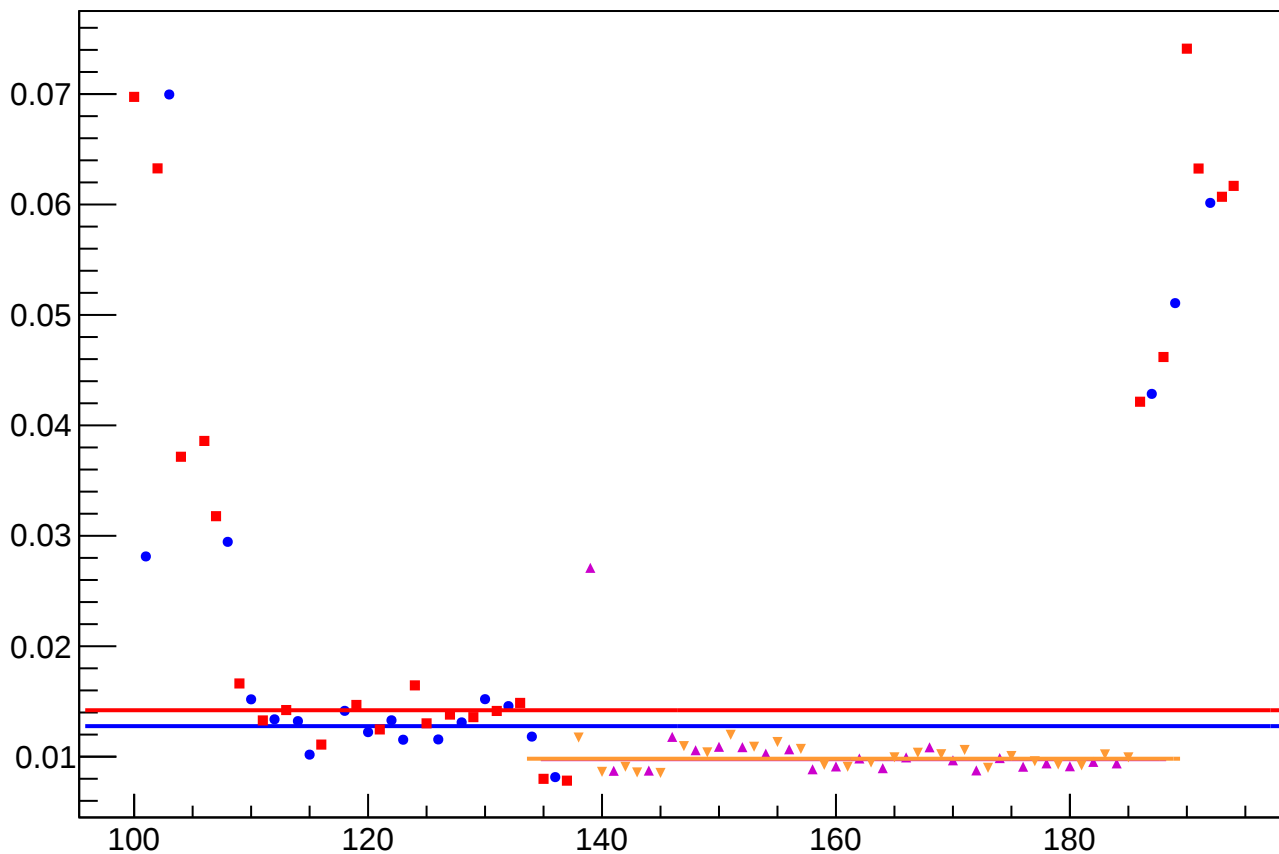
Right: -0.260+/-0.000 χ^2/NDF : 3615750268.4/44

In: -0.405+/-0.000 χ^2/NDF : 2616433046.7/42

Out: -0.407+/-0.000 χ^2/NDF : 2662846467.2/49

All: -0.406+/-0.000 χ^2/NDF : 5279614418.5/9

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 3426613.7/19

Left Out: 0.010+/-0.000 χ^2/NDF :271172.3/24

Right Out: 0.014+/-0.000 χ^2/NDF : 5754017.7/24

Left In: 0.010+/-0.000 χ^2/NDF :786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

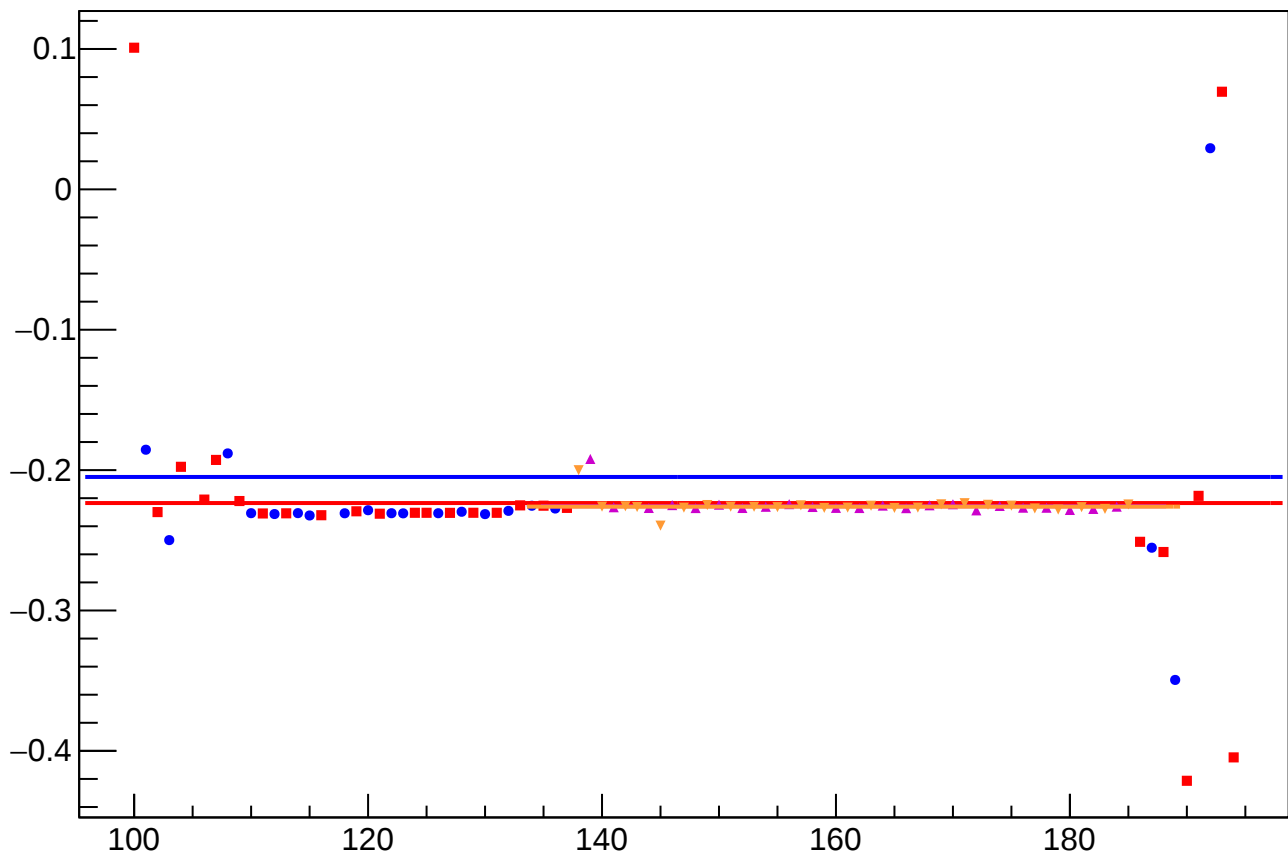
Right: 0.013+/-0.000 χ^2/NDF : 9245755.8/44

In: 0.010+/-0.000 χ^2/NDF :4687374.4/42

Out: 0.011+/-0.000 χ^2/NDF :7025345.8/49

All: 0.010+/-0.000 χ^2/NDF : 11722462.8/92

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 $\chi^2/\text{NDF}: 1873642421.4/19$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21207366.3/24$

Right Out: -0.223 ± 0.000 $\chi^2/\text{NDF}: 3222525906.1/24$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 13717302.5/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 34951372.2/47$

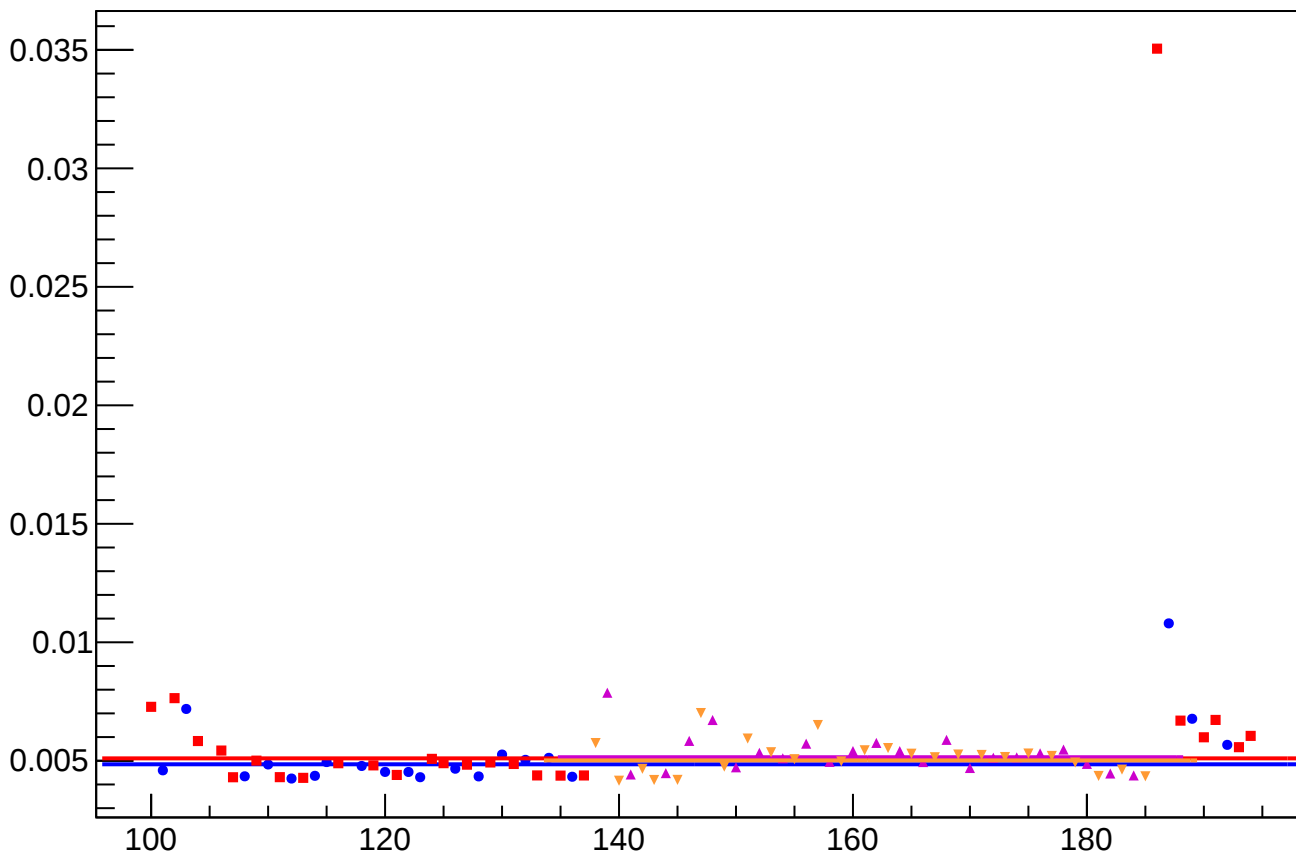
Right: -0.215 ± 0.000 $\chi^2/\text{NDF}: 5153378262.4/44$

In: -0.219 ± 0.000 $\chi^2/\text{NDF}: 1977122626.1/42$

Out: -0.225 ± 0.000 $\chi^2/\text{NDF}: 3245269418.6/49$

All: -0.222 ± 0.000 $\chi^2/\text{NDF}: 5242330834.3/9$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 382547.5/19

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1010093.6/24

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

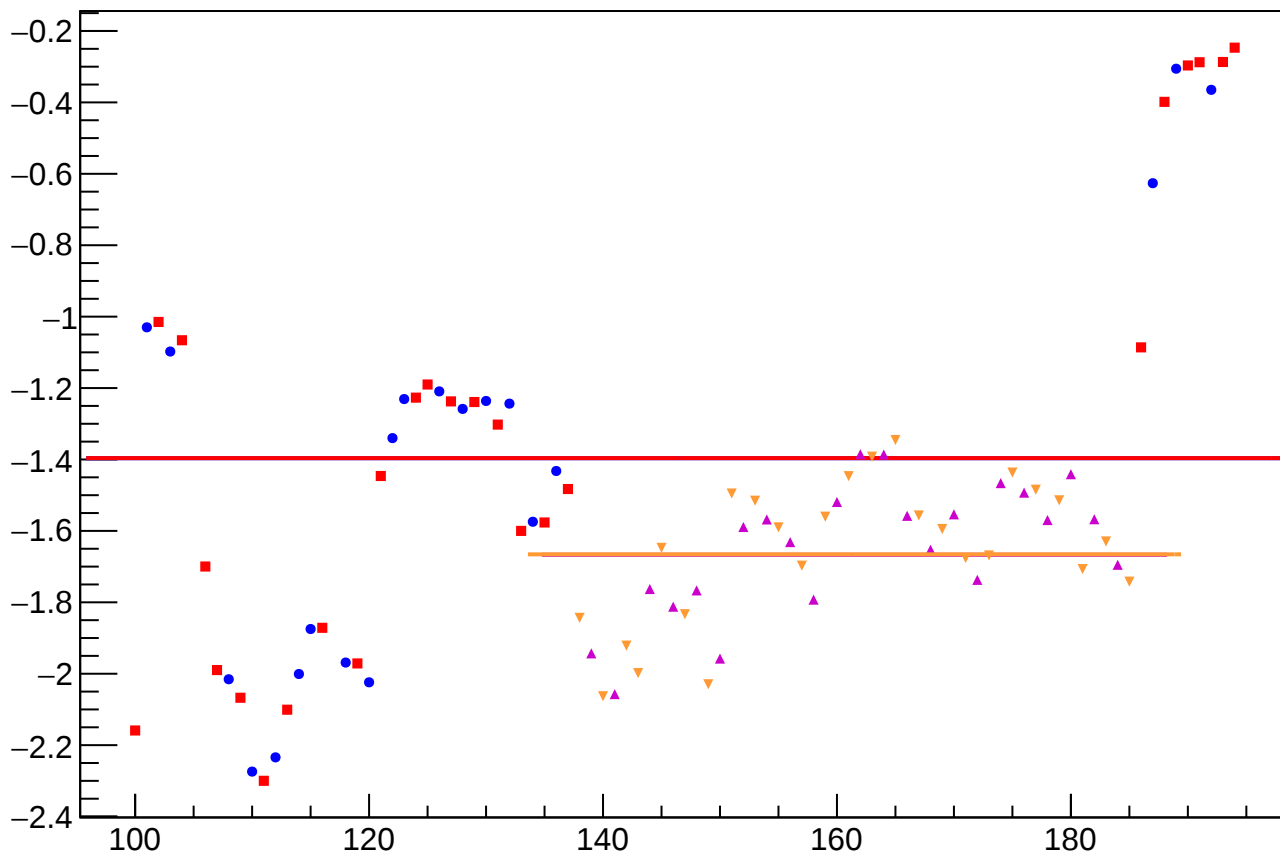
Right: 0.005+/-0.000 χ^2/NDF : 1413378.0/44

In: 0.005+/-0.000 χ^2/NDF : 923239.1/42

Out: 0.005+/-0.000 χ^2/NDF : 1546161.6/49

All: 0.005+/-0.000 χ^2/NDF : 2469423.0/92

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.397+/-0.000 χ^2/NDF : 38021508096.0/19

Left Out: -1.666+/-0.000 χ^2/NDF : 18368038680.8/24

Right Out: -1.396+/-0.000 χ^2/NDF : 72189507955.6/24

Left In: -1.667+/-0.000 χ^2/NDF : 14615453869.3/22

Left: -1.666+/-0.000 χ^2/NDF : 32983827631.4/47

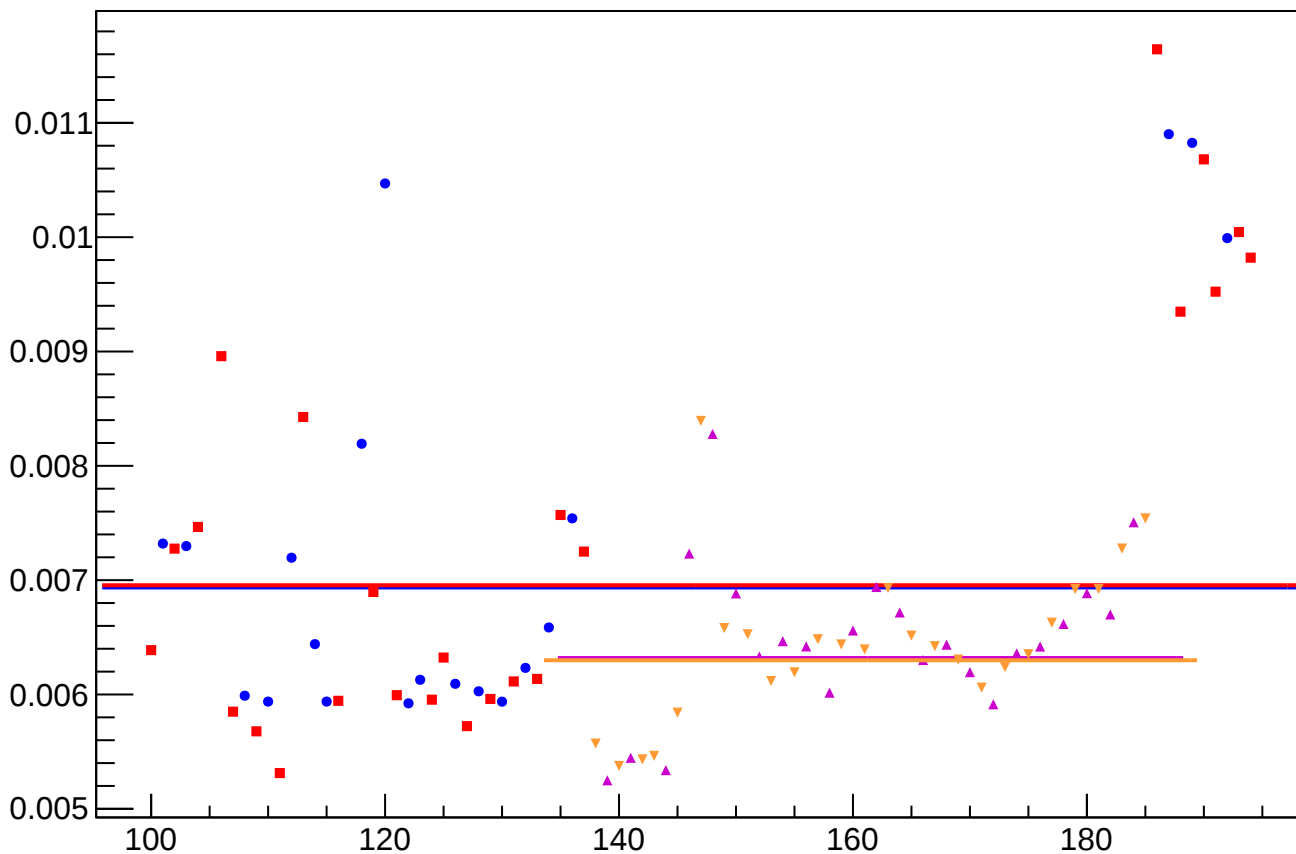
Right: -1.396+/-0.000 χ^2/NDF : 110211028776.8/44

In: -1.594+/-0.000 χ^2/NDF : 60746208483.9/42

Out: -1.583+/-0.000 χ^2/NDF : 100449467796.3/49

All: -1.588+/-0.000 χ^2/NDF : 161237876959.0

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 533528.1/19

Left Out: 0.006+/-0.000 χ^2/NDF : 312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 966153.4/24

Left In: 0.006+/-0.000 χ^2/NDF : 334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

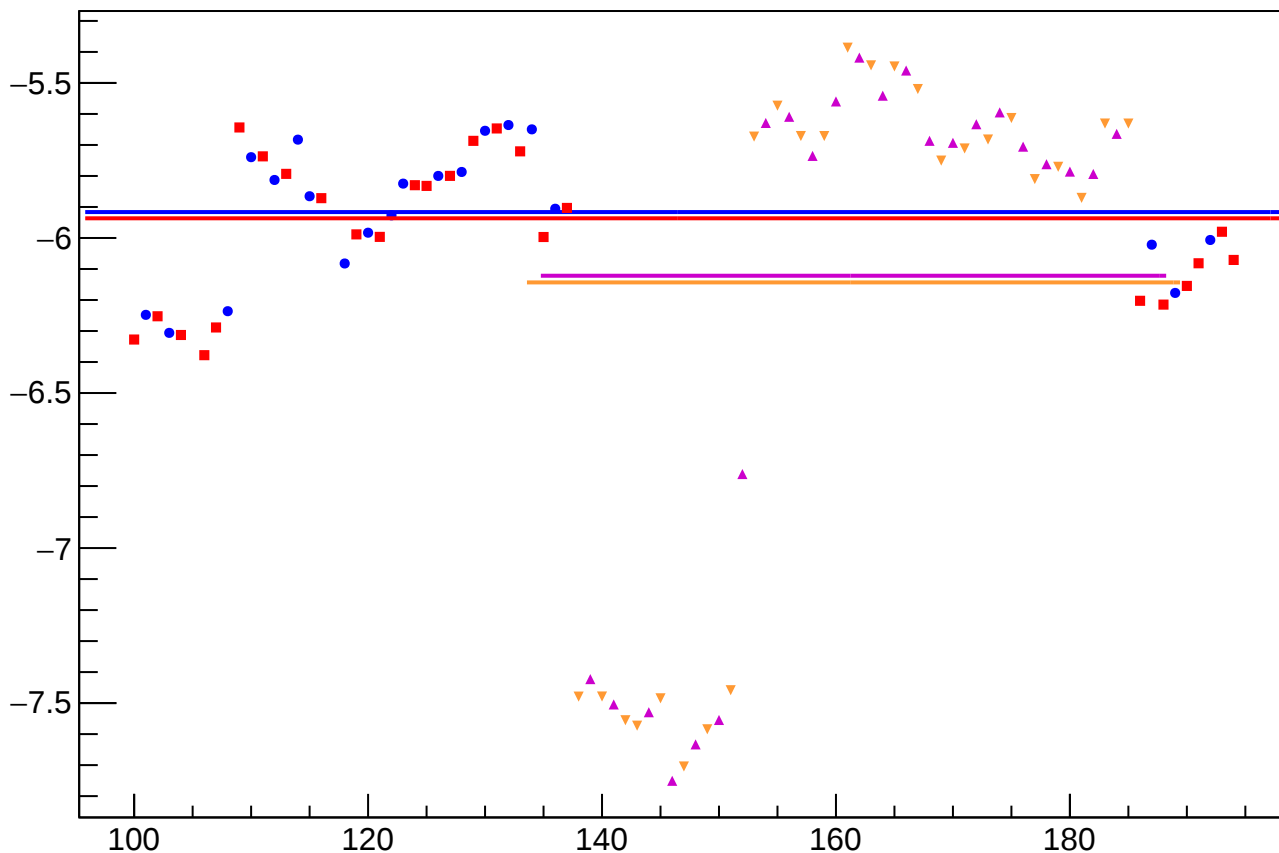
Right: 0.007+/-0.000 χ^2/NDF : 1499744.5/44

In: 0.006+/-0.000 χ^2/NDF : 952468.8/42

Out: 0.007+/-0.000 χ^2/NDF : 1396190.0/49

All: 0.006+/-0.000 χ^2/NDF : 2348840.6/92

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.916+/-0.000 χ^2/NDF : 11351079809.8/19

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.937+/-0.000 χ^2/NDF : 13716919339.8/24

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

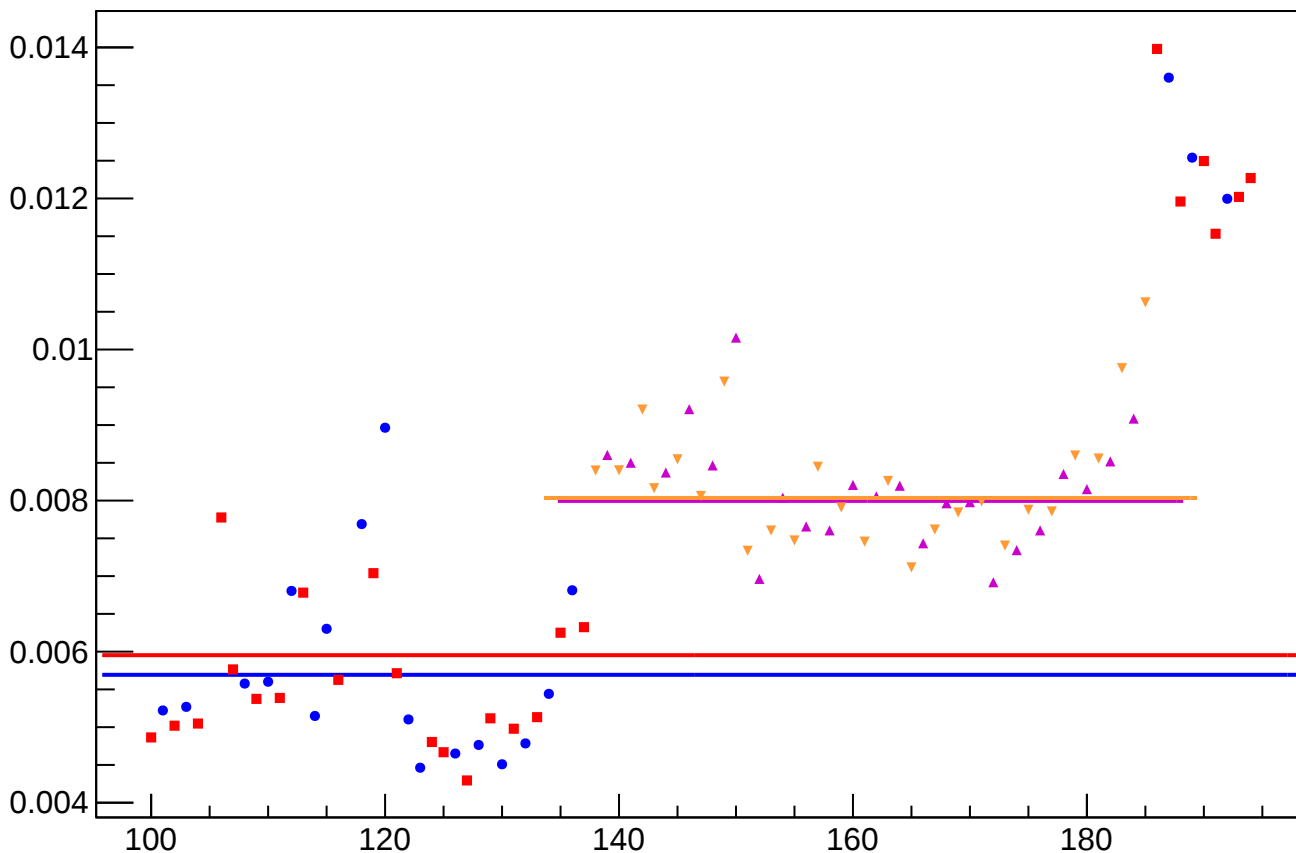
Right: -5.927+/-0.000 χ^2/NDF : 25113900799.0/44

In: -6.028+/-0.000 χ^2/NDF : 176071653782.8/42

Out: -6.043+/-0.000 χ^2/NDF : 204803091636.3/49

All: -6.035+/-0.000 χ^2/NDF : 380928250529.3

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1200645.2/19

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2153326.6/24

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

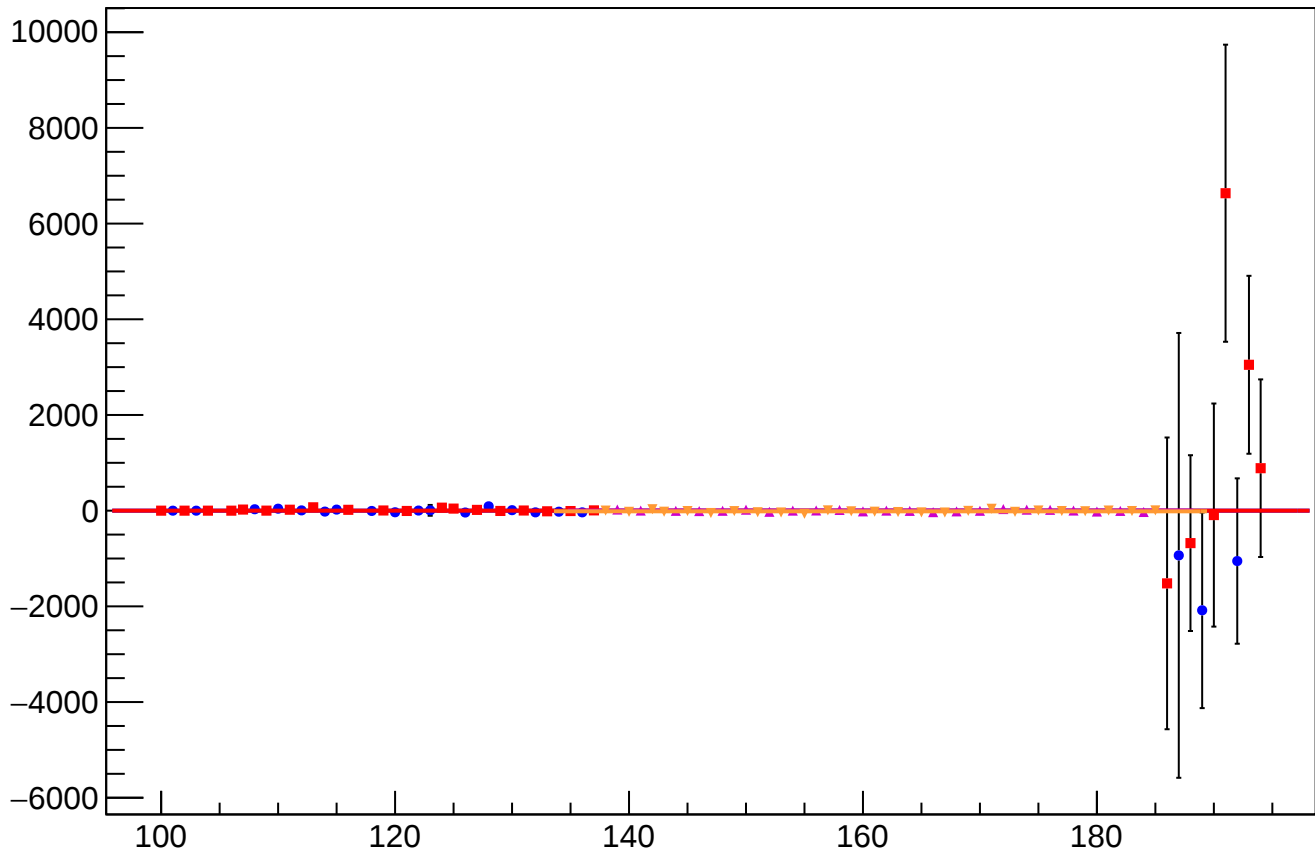
Right: 0.006+/-0.000 χ^2/NDF : 3369291.9/44

In: 0.007+/-0.000 χ^2/NDF :2631050.6/42

Out: 0.007+/-0.000 χ^2/NDF :3447044.3/49

All: 0.007+/-0.000 χ^2/NDF : 6081184.7/92

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 17.7/19

Left Out: -13.472 $\pm$ 2.796 χ^2 /NDF:58.5/24

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 22.8/24

Left In: 0.489 $\pm$ 2.905 χ^2 /NDF:28.7/22

Left: -6.758 $\pm$ 2.015 χ^2 /NDF: 99.2/47

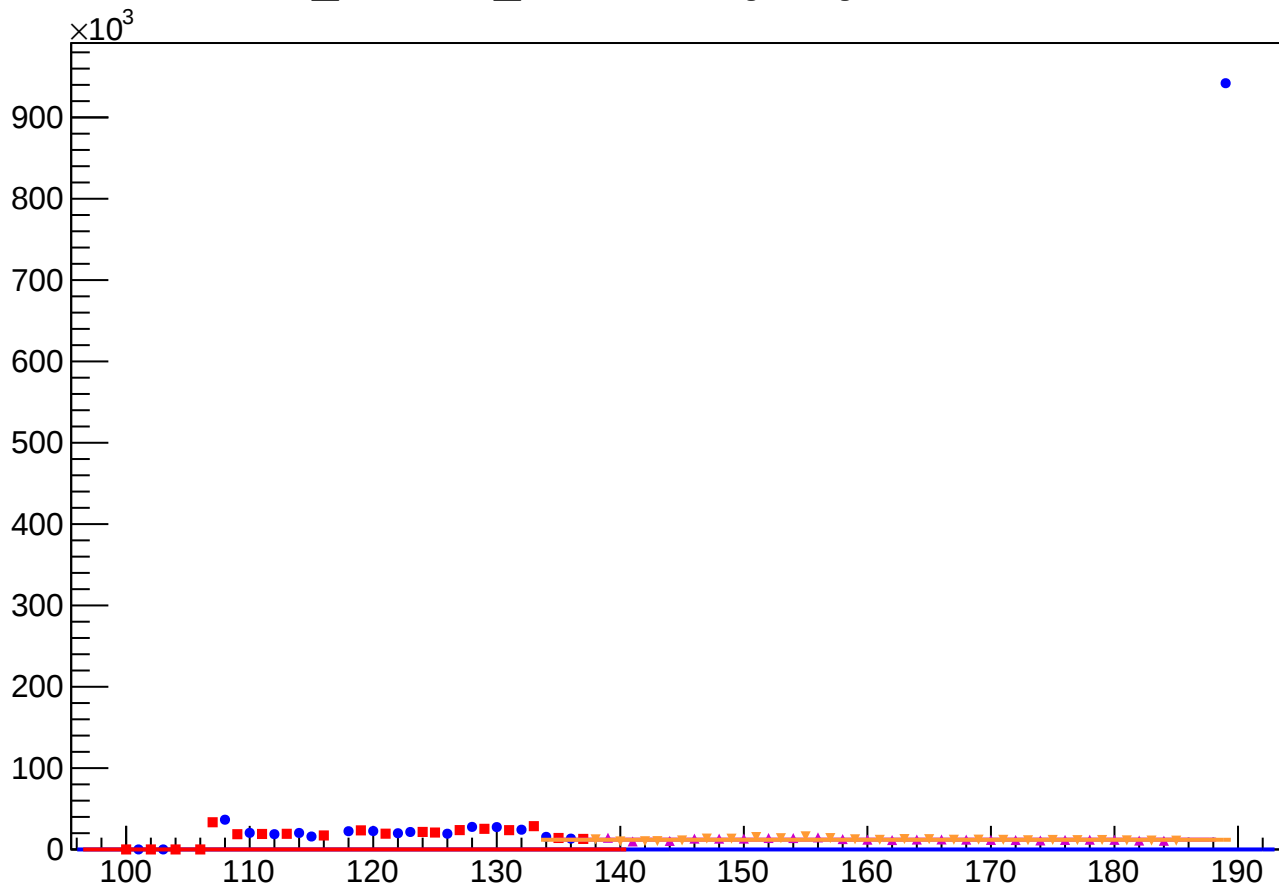
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 41.0/44

In: 0.013 $\pm$ 0.017 χ^2 /NDF:46.4/42

Out: -0.004 $\pm$ 0.016 χ^2 /NDF:104.5/49

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 151.4/92

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640 $\pm$ 0.012 χ^2 /NDF: 10982766.4/17

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

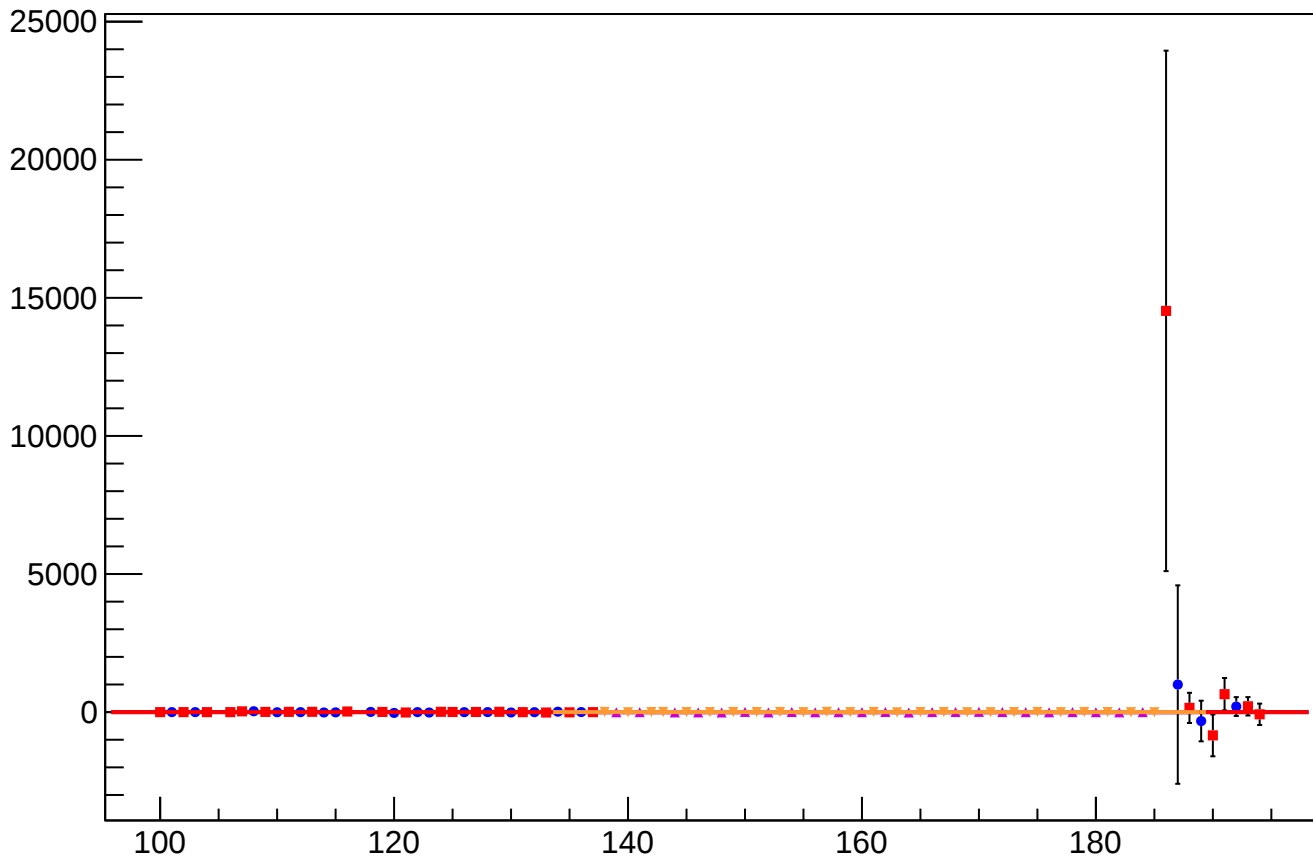
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

In: 19.069 $\pm$ 0.012 χ^2 /NDF: 45733258.4/40

Out: 18.704 $\pm$ 0.011 χ^2 /NDF: 47698495.9/43

All: 18.873 $\pm$ 0.008 χ^2 /NDF: 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 15.3/19

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.0/24

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF:35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

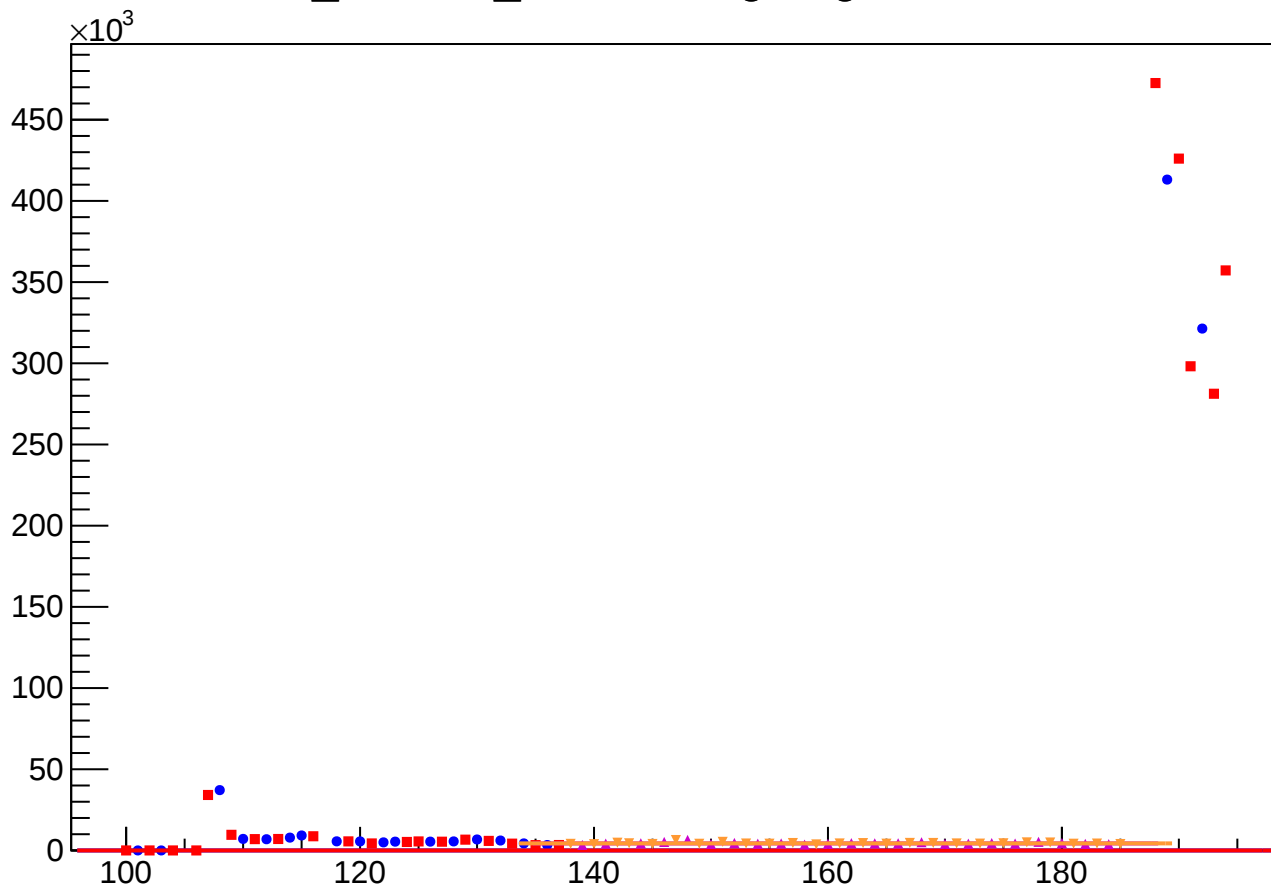
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 40.6/44

In: 0.001 $\pm$ 0.009 χ^2 /NDF:51.6/42

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:44.6/49

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 97.5/92

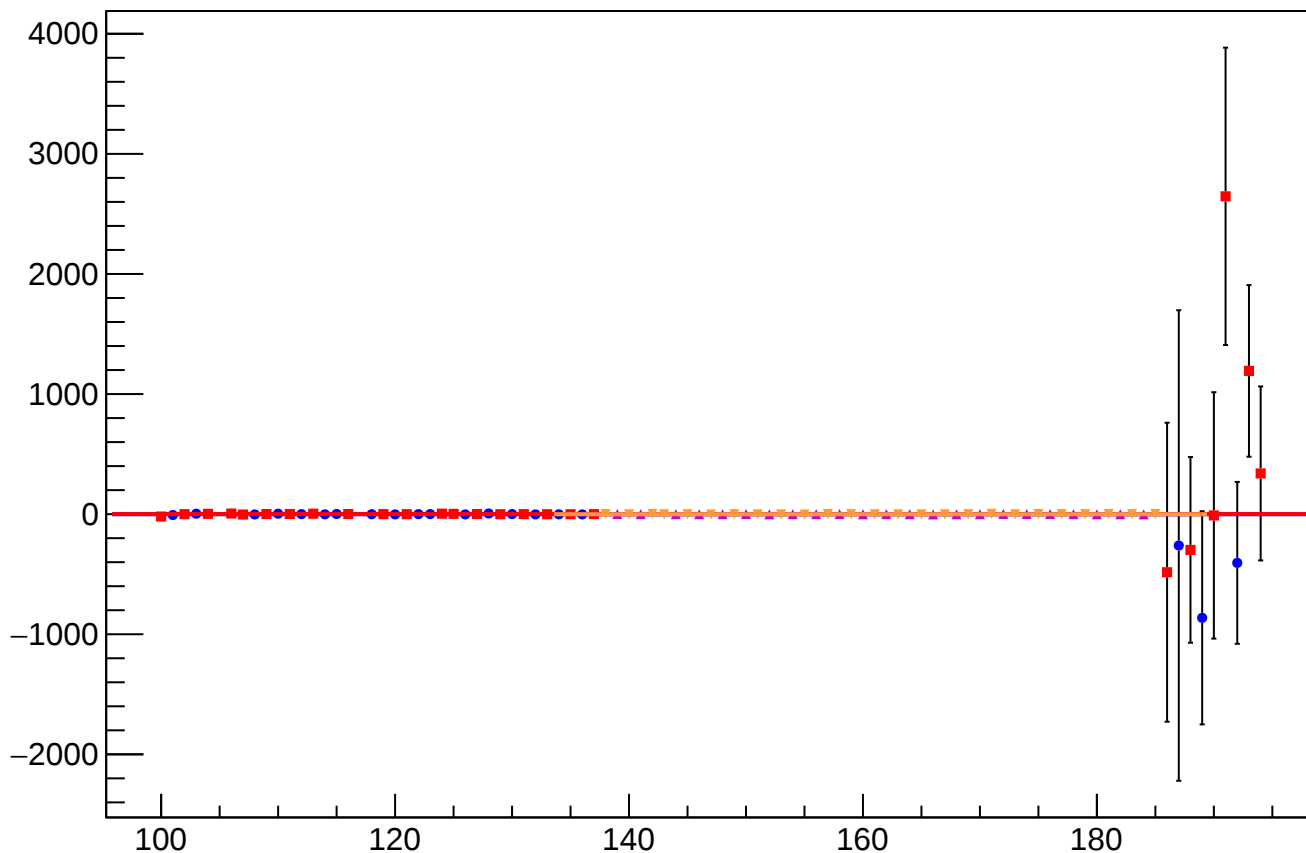
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938 ± 0.007 χ^2/NDF : 13310903.3/18
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.854 ± 0.006 χ^2/NDF : 16853181.7/23
 Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47
 Right: 9.894 ± 0.004 χ^2/NDF : 30164172.3/42
 In: 10.273 ± 0.007 χ^2/NDF : 47906931.2/41
 Out: 10.166 ± 0.006 χ^2/NDF : 53382904.7/48
 All: 10.216 ± 0.004 χ^2/NDF : 101289979.1/90

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.702 ± 0.485 χ^2/NDF : 23.8/19

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.761 ± 0.502 χ^2/NDF : 19.6/24

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

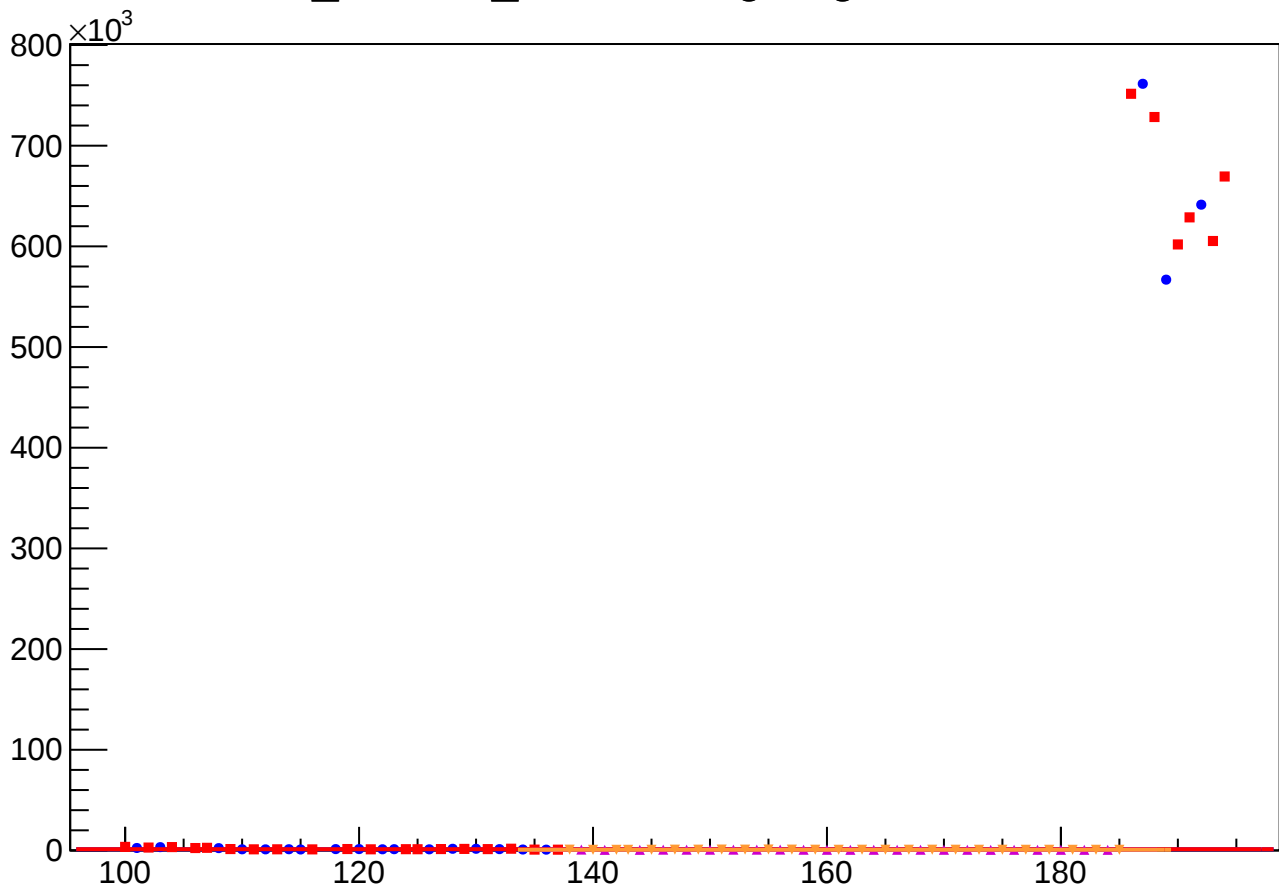
Right: 0.004 ± 0.349 χ^2/NDF : 47.8/44

In: -0.059 ± 0.161 χ^2/NDF : 55.0/42

Out: -0.626 ± 0.156 χ^2/NDF : 86.5/49

All: -0.350 ± 0.112 χ^2/NDF : 147.9/92

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1164.759 $\pm$ 0.343 χ^2/NDF : 4504656.7/19

Left Out: 700.797 $\pm$ 0.116 χ^2/NDF : 392521.4/24

Right Out: 1250.562 $\pm$ 0.355 χ^2/NDF : 8442974.3/24

Left In: 706.950 $\pm$ 0.120 χ^2/NDF : 338177.1/22

Left: 703.766 $\pm$ 0.084 χ^2/NDF : 732052.1/47

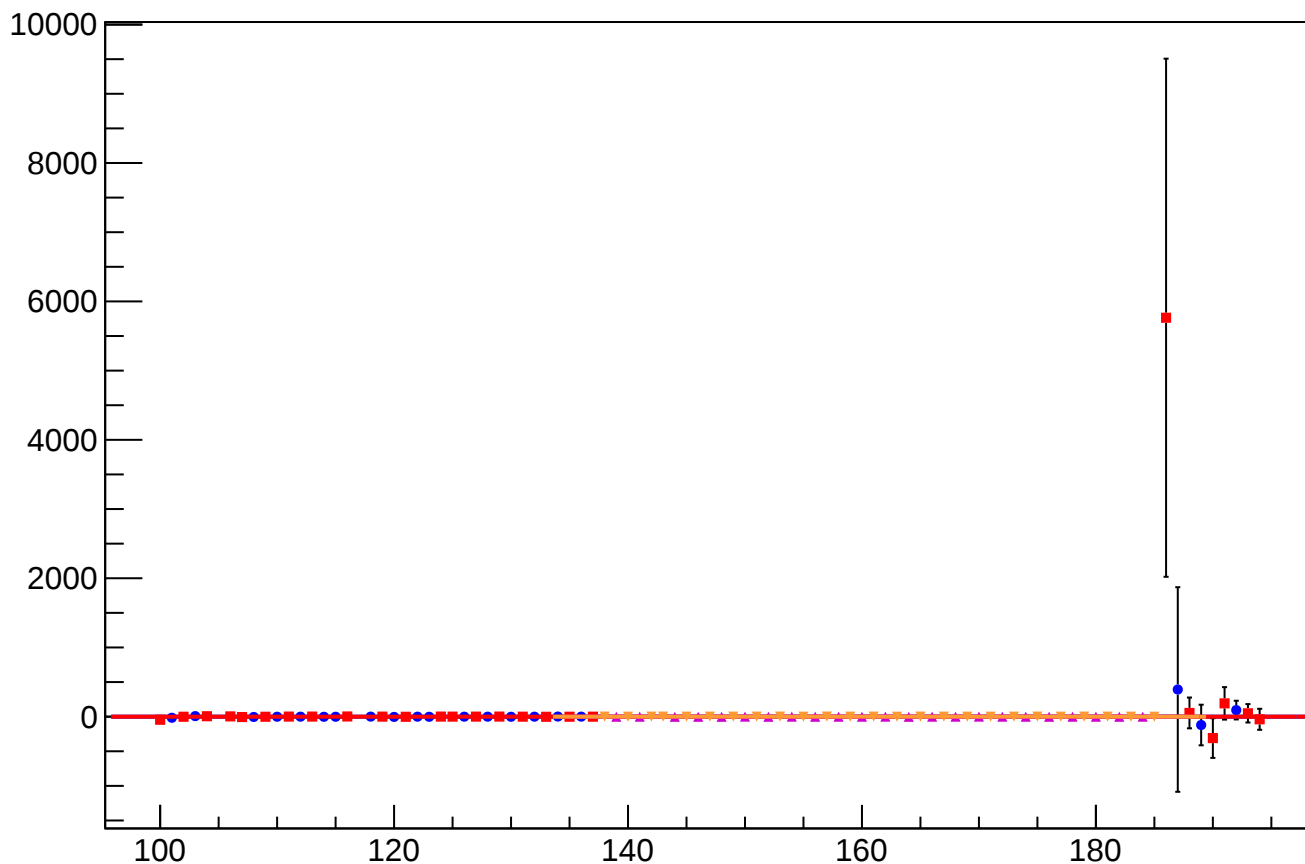
Right: 1206.176 $\pm$ 0.247 χ^2/NDF : 12977845.5/44

In: 757.104 $\pm$ 0.114 χ^2/NDF : 6429549.0/42

Out: 753.972 $\pm$ 0.110 χ^2/NDF : 11001385.6/49

All: 755.495 $\pm$ 0.079 χ^2/NDF : 17431325.6/92

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.059 ± 0.271 χ^2/NDF : 21.7/19

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.244 ± 0.265 χ^2/NDF : 25.2/24

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

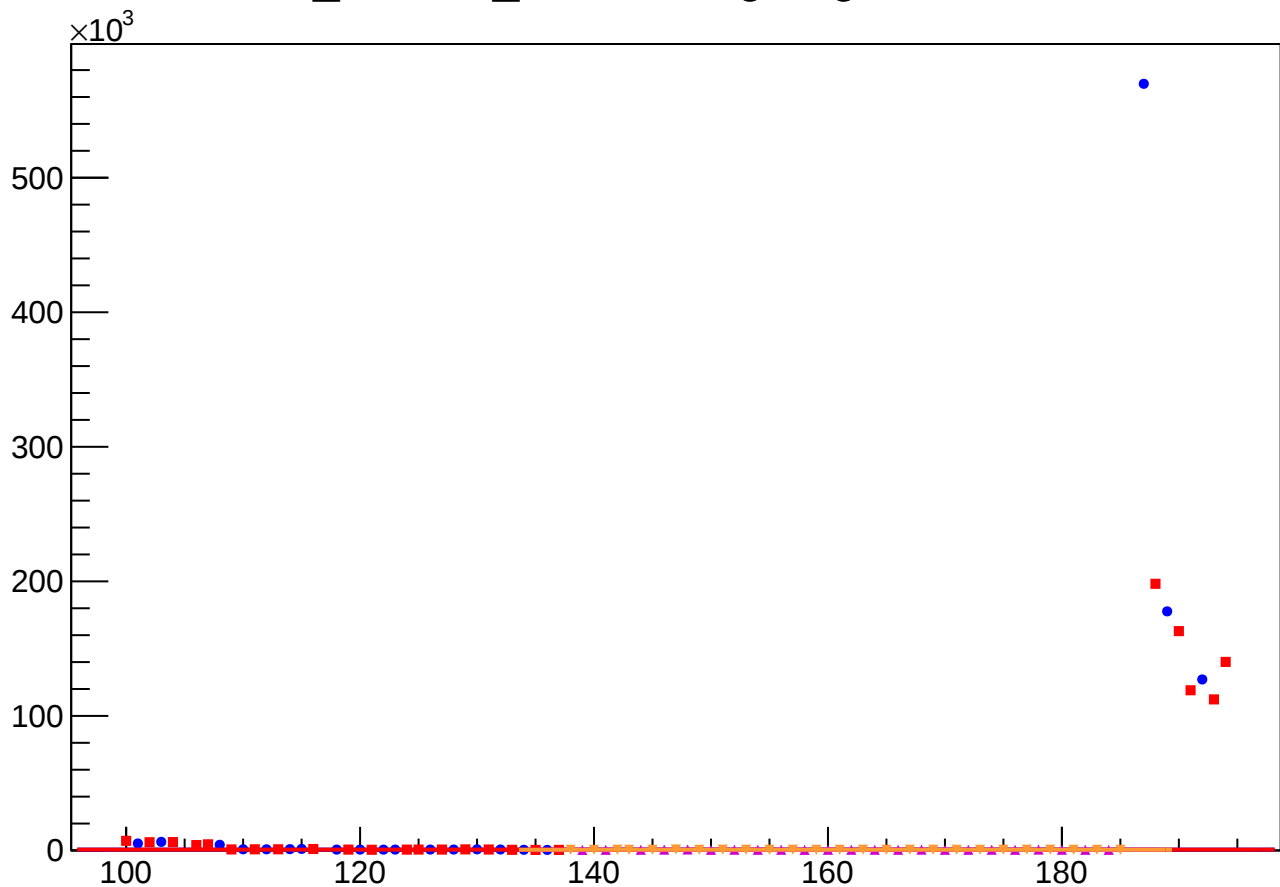
Right: -0.154 ± 0.189 χ^2/NDF : 47.1/44

In: -0.105 ± 0.114 χ^2/NDF : 56.7/42

Out: 0.152 ± 0.111 χ^2/NDF : 45.5/49

All: 0.026 ± 0.080 χ^2/NDF : 104.7/92

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.267+/-0.191 χ^2/NDF : 5918230.2/19

Left Out: 522.416+/-0.087 χ^2/NDF : 331573.1/24

Right Out: 601.153+/-0.187 χ^2/NDF : 9378256.8/23

Left In: 519.909+/-0.089 χ^2/NDF : 444746.3/22

Left: 521.193+/-0.062 χ^2/NDF : 776728.3/47

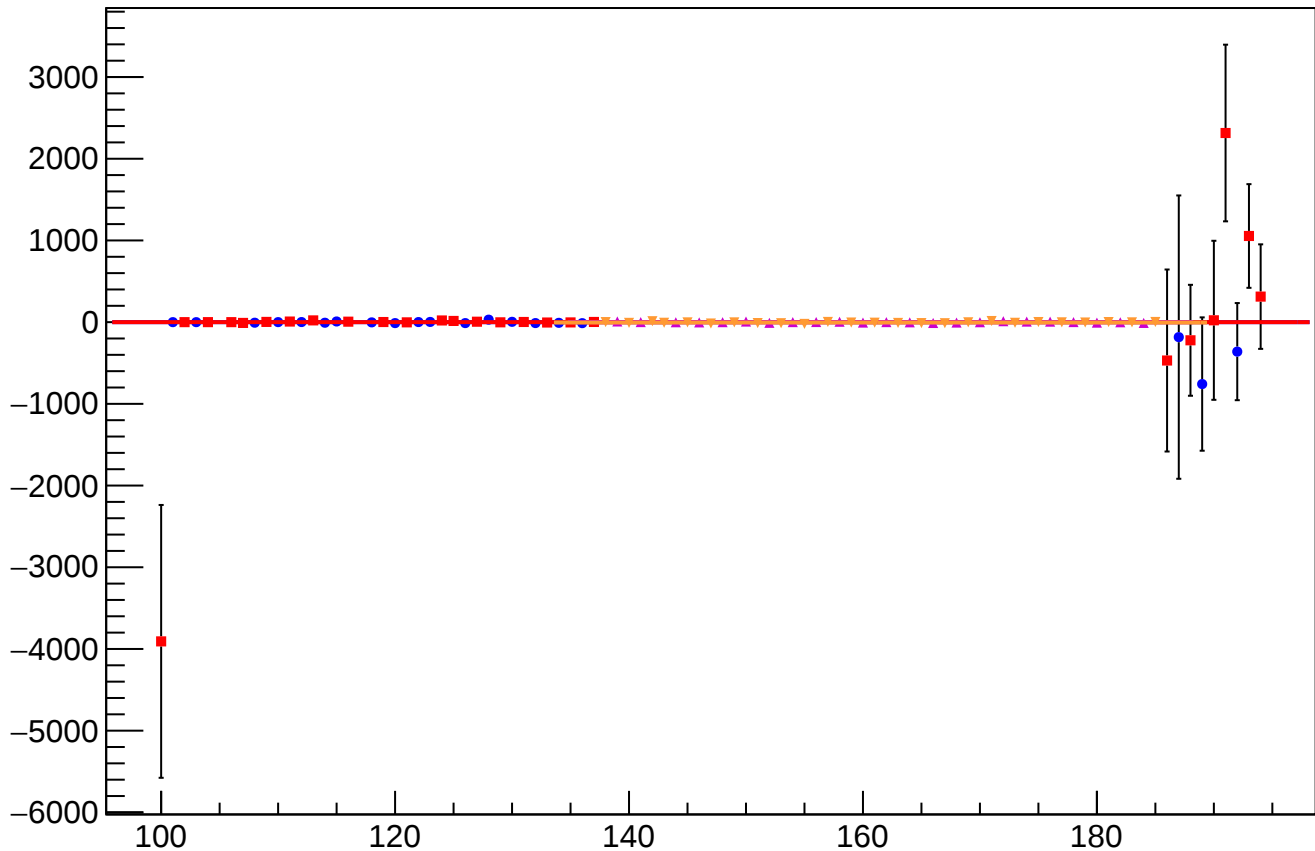
Right: 605.123+/-0.134 χ^2/NDF : 15297405.5/43

In: 535.729+/-0.081 χ^2/NDF : 6542503.6/42

Out: 536.289+/-0.079 χ^2/NDF : 9855449.7/48

All: 536.016+/-0.056 χ^2/NDF : 16397978.1/92

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.9/19

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 24.7/24

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

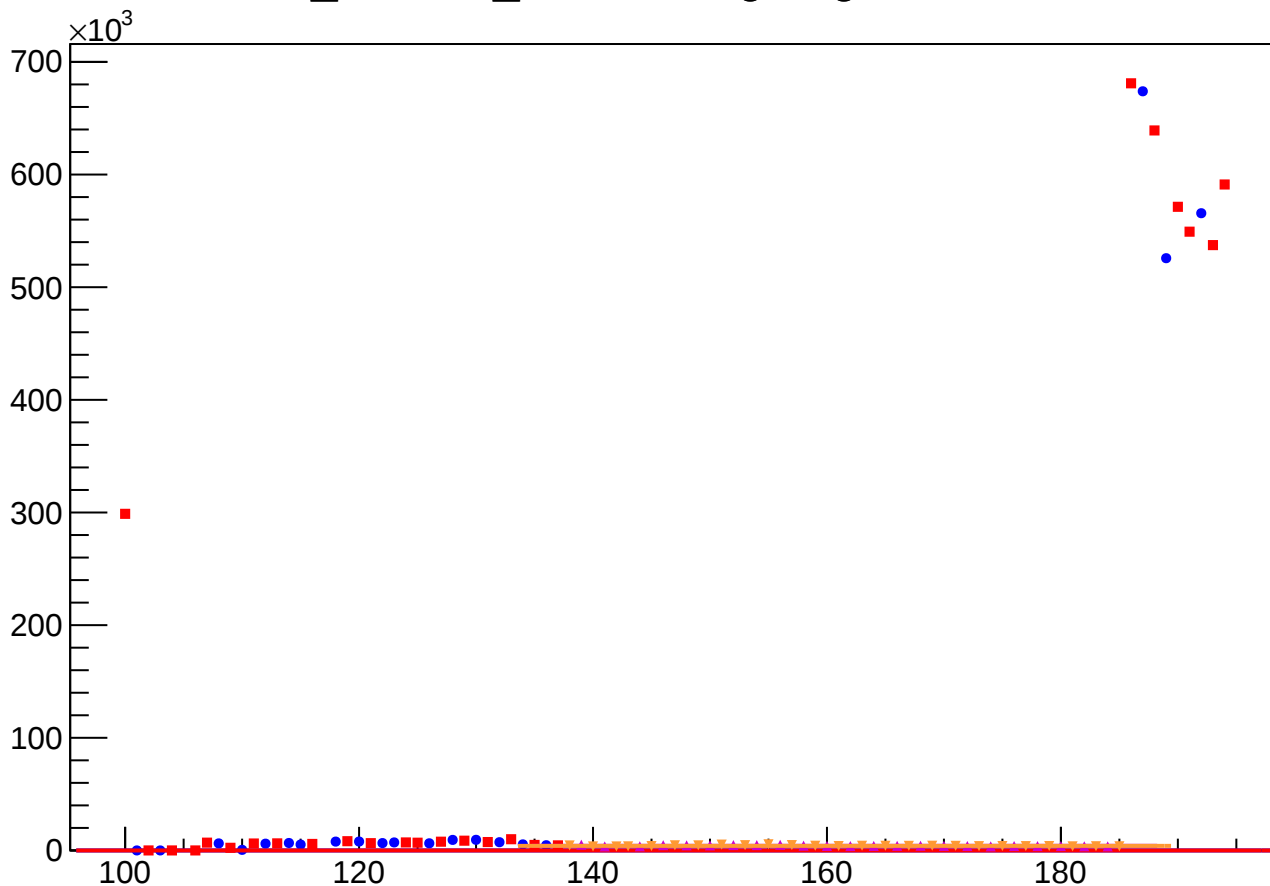
Right: 0.004 ± 0.014 χ^2/NDF : 44.4/44

In: -0.022 ± 0.021 χ^2/NDF : 46.2/42

Out: 0.025 ± 0.020 χ^2/NDF : 105.1/49

All: 0.003 ± 0.014 χ^2/NDF : 153.8/92

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.336 $\pm$ 0.015 χ^2/NDF : 13258603.7/19

Left Out: 4074.257 $\pm$ 0.676 χ^2/NDF : 416916.0/24

Right Out: 17.269 $\pm$ 0.014 χ^2/NDF : 17627131.3/24

Left In: 4113.744 $\pm$ 0.700 χ^2/NDF : 354965.8/22

Left: 4093.298 $\pm$ 0.486 χ^2/NDF : 773528.6/47

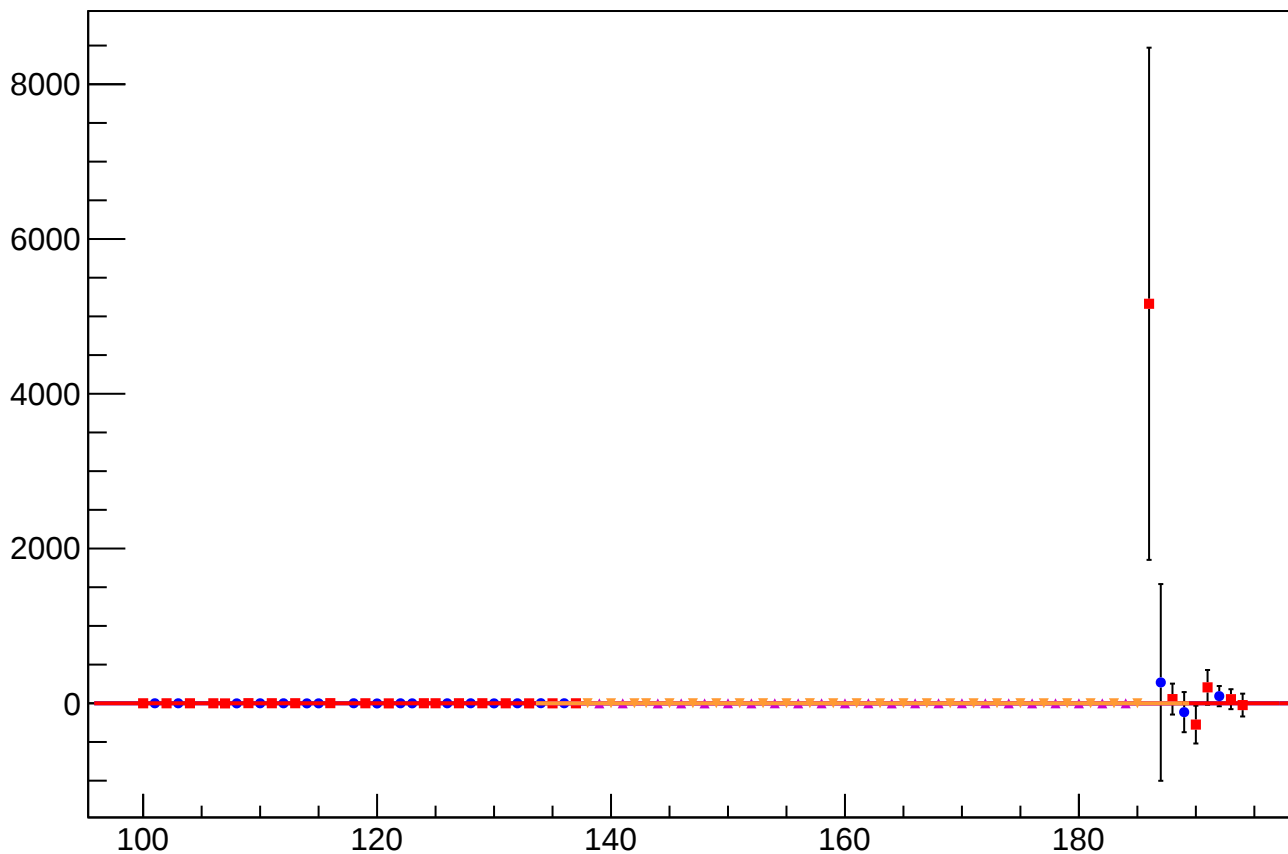
Right: 17.301 $\pm$ 0.010 χ^2/NDF : 30885745.9/44

In: 19.142 $\pm$ 0.015 χ^2/NDF : 47827833.2/42

Out: 19.006 $\pm$ 0.014 χ^2/NDF : 54080086.6/49

All: 19.071 $\pm$ 0.010 χ^2/NDF : 101907964.8/92

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 16.1/19

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 22.9/24

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

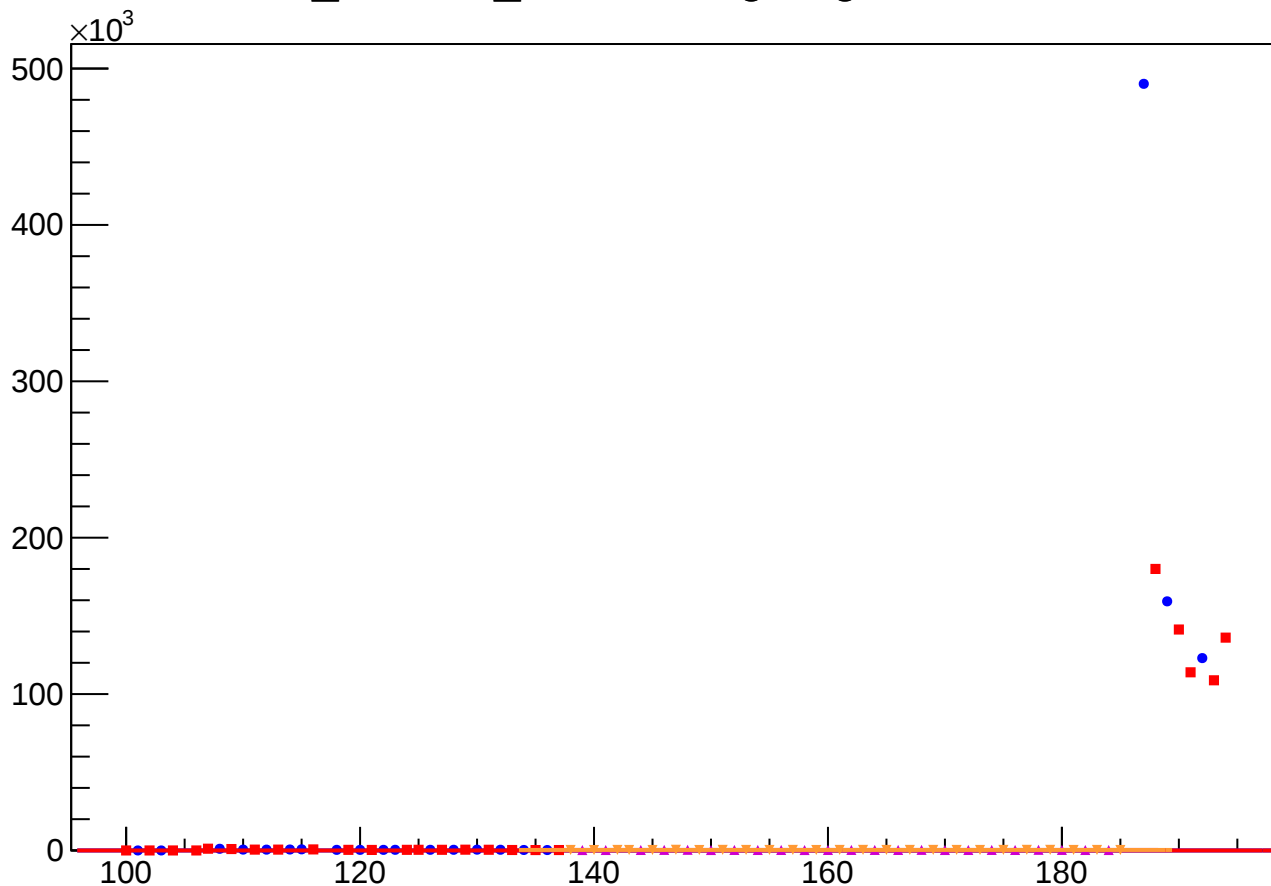
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 39.1/44

In: 0.000 $\pm$ 0.002 χ^2 /NDF:51.8/42

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:43.6/49

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 95.5/92

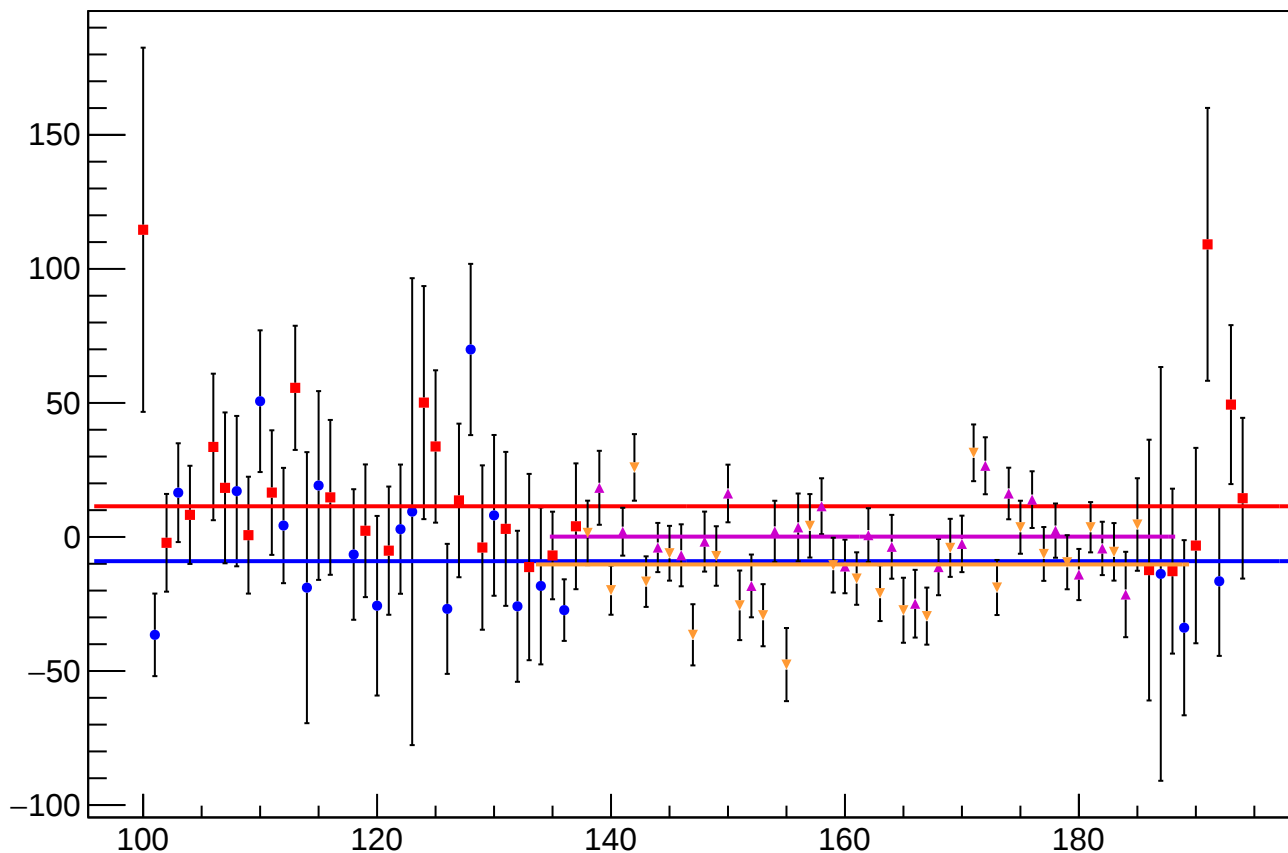
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 13691048.1/19
 Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24
 Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 16628033.0/23
 Left In: 325.201 $\pm$ 0.055 χ^2 /NDF:428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47
 Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 30319308.7/43
 In: 1.914 $\pm$ 0.001 χ^2 /NDF:48094505.5/42
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:52935868.5/48
 All: 1.926 $\pm$ 0.001 χ^2 /NDF: 101030512.3/91

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.024 ± 5.436 $\chi^2/\text{NDF}: 23.3/19$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 11.450 ± 5.290 $\chi^2/\text{NDF}: 18.1/24$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

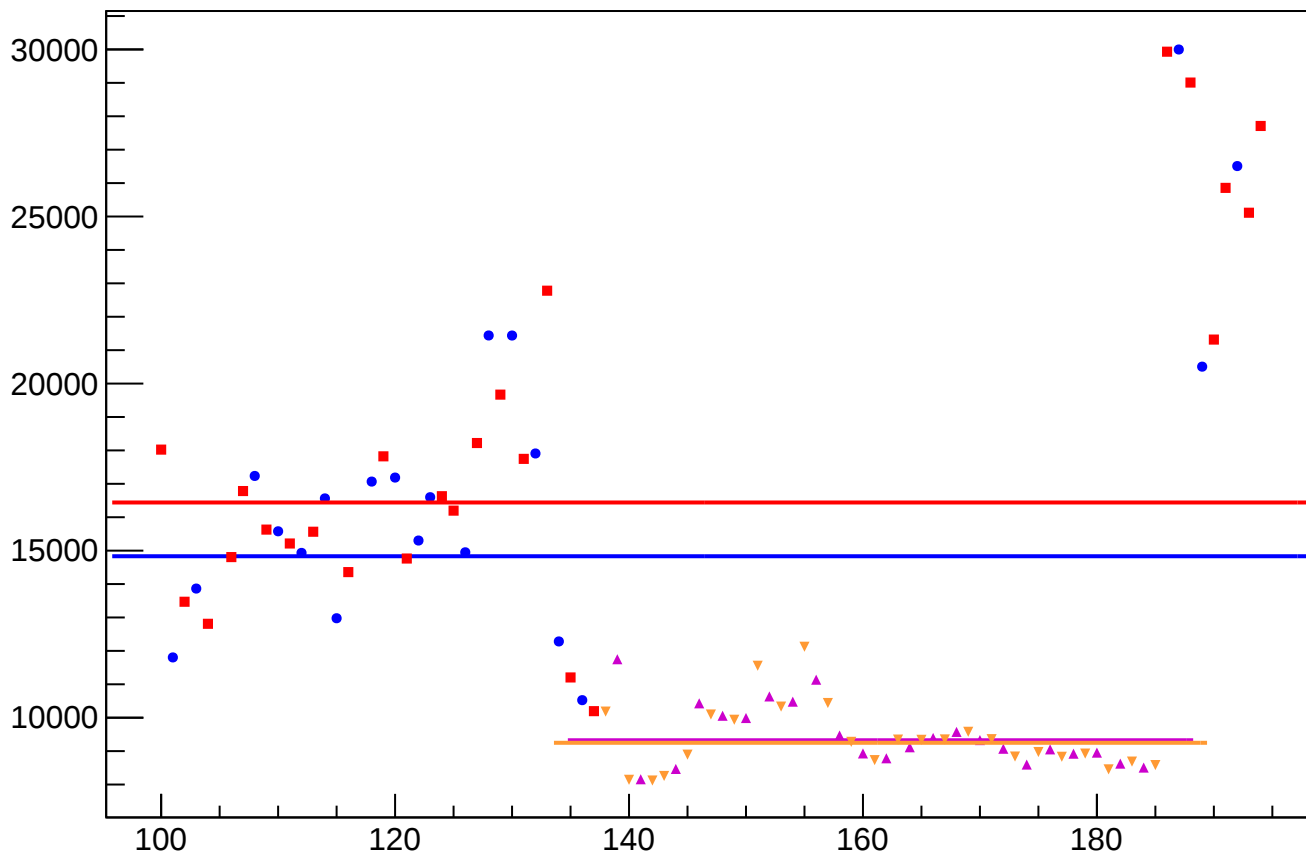
Right: 1.490 ± 3.791 $\chi^2/\text{NDF}: 48.6/44$

In: -1.201 ± 2.073 $\chi^2/\text{NDF}: 55.5/42$

Out: -7.120 ± 2.005 $\chi^2/\text{NDF}: 90.4/49$

All: -4.259 ± 1.441 $\chi^2/\text{NDF}: 150.2/92$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14832.499 $\pm$ 3.844 χ^2/NDF : 1127190.3/19

Left Out: 9249.358 $\pm$ 1.532 χ^2/NDF :332003.4/24

Right Out: 16441.186 $\pm$ 3.741 χ^2/NDF : 1671276.4/24

Left In: 9325.112 $\pm$ 1.585 χ^2/NDF :280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2/NDF : 614111.7/47

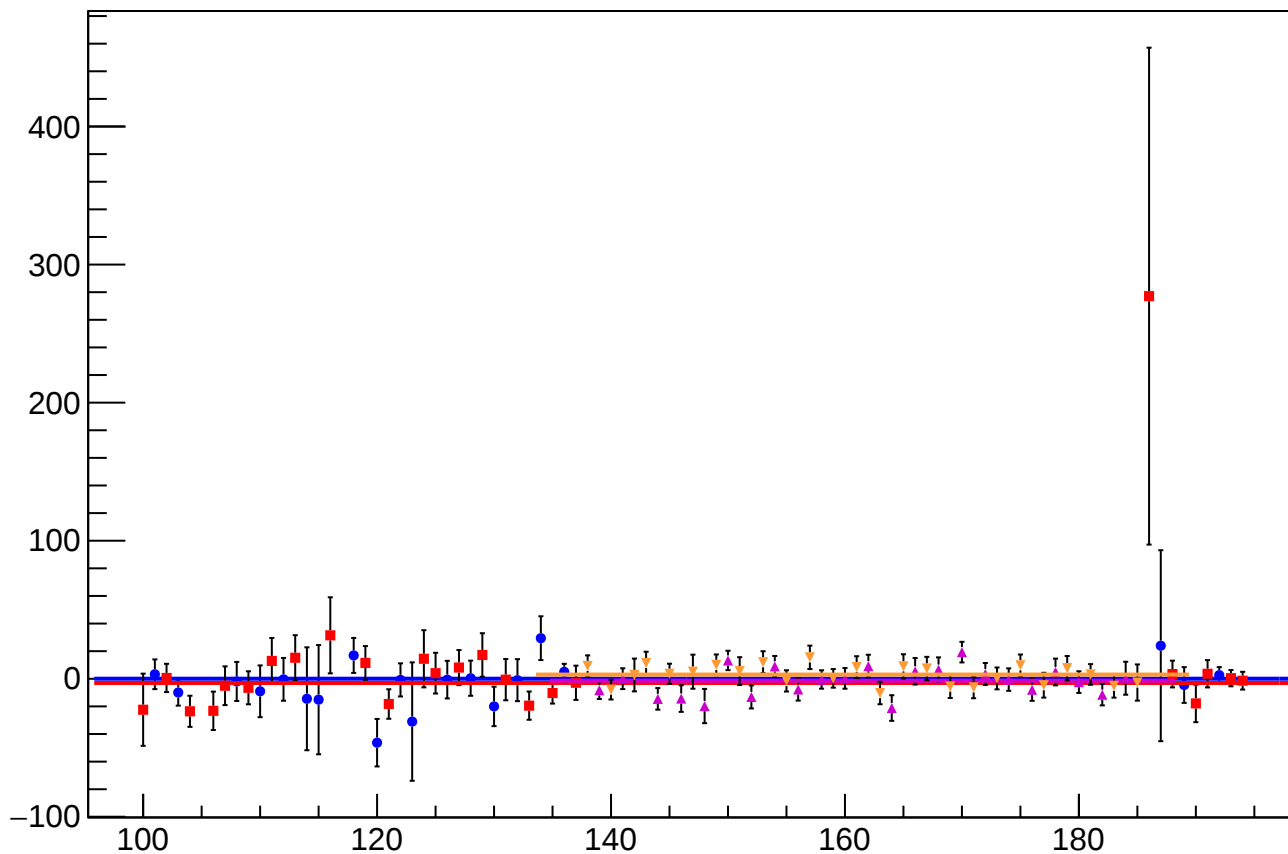
Right: 15658.629 $\pm$ 2.681 χ^2/NDF : 2888425.6/44

In: 10125.956 $\pm$ 1.466 χ^2/NDF :3162693.1/42

Out: 10282.357 $\pm$ 1.418 χ^2/NDF :5168429.9/49

All: 10206.755 $\pm$ 1.019 χ^2/NDF : 8337005.6/9

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.059 ± 2.668 $\chi^2/\text{NDF}: 17.9/19$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -3.028 ± 2.266 $\chi^2/\text{NDF}: 25.2/24$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

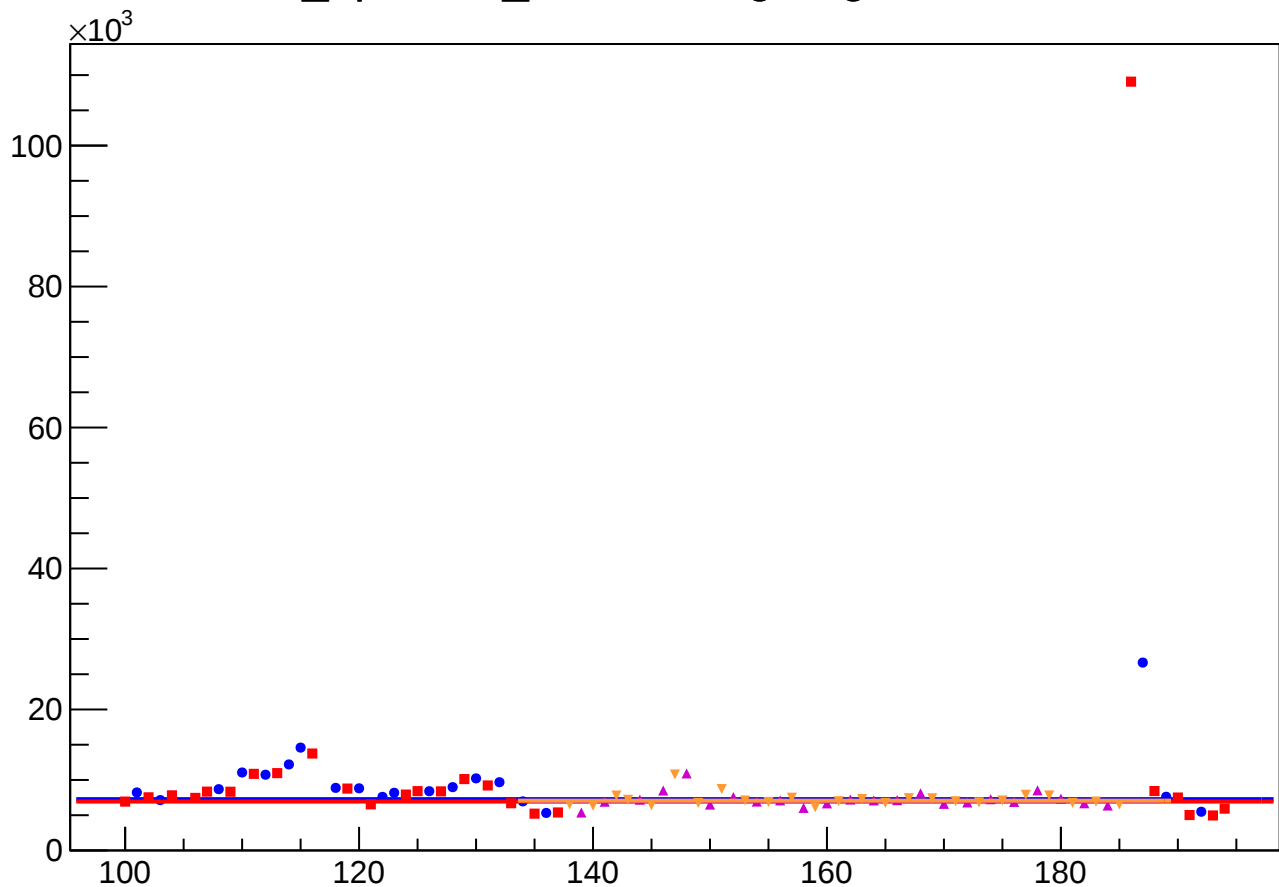
Right: -1.734 ± 1.727 $\chi^2/\text{NDF}: 43.9/44$

In: -0.977 ± 1.430 $\chi^2/\text{NDF}: 53.5/42$

Out: 0.937 ± 1.339 $\chi^2/\text{NDF}: 48.2/49$

All: 0.043 ± 0.977 $\chi^2/\text{NDF}: 102.6/92$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7280.530 $\pm$ 1.887 χ^2/NDF : 1131690.4/19

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 6936.588 $\pm$ 1.602 χ^2/NDF : 1830685.4/24

Left In: 7000.532 $\pm$ 1.197 χ^2/NDF : 550029.3/22

Left: 7034.358 $\pm$ 0.838 χ^2/NDF : 939043.5/47

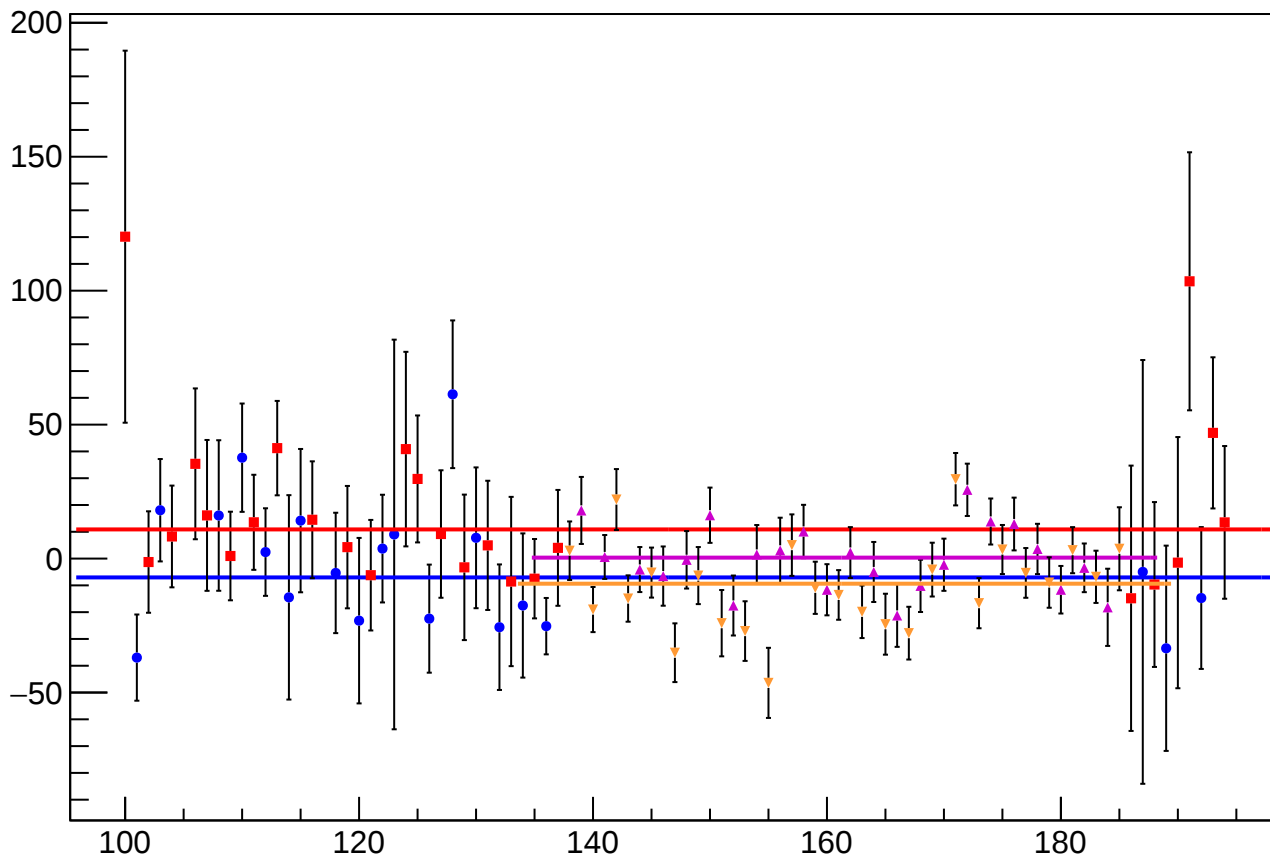
Right: 7080.707 $\pm$ 1.221 χ^2/NDF : 2981682.3/44

In: 7080.913 $\pm$ 1.011 χ^2/NDF : 1697420.8/42

Out: 7021.384 $\pm$ 0.946 χ^2/NDF : 2222436.6/49

All: 7049.191 $\pm$ 0.691 χ^2/NDF : 3921705.2/92

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.032 $\pm$ 4.906 χ^2/NDF : 23.7/19

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 10.886 $\pm$ 4.734 χ^2/NDF : 17.6/24

Left In: 0.353 $\pm$ 2.092 χ^2/NDF : 29.6/22

Left: -4.688 $\pm$ 1.452 χ^2/NDF : 99.3/47

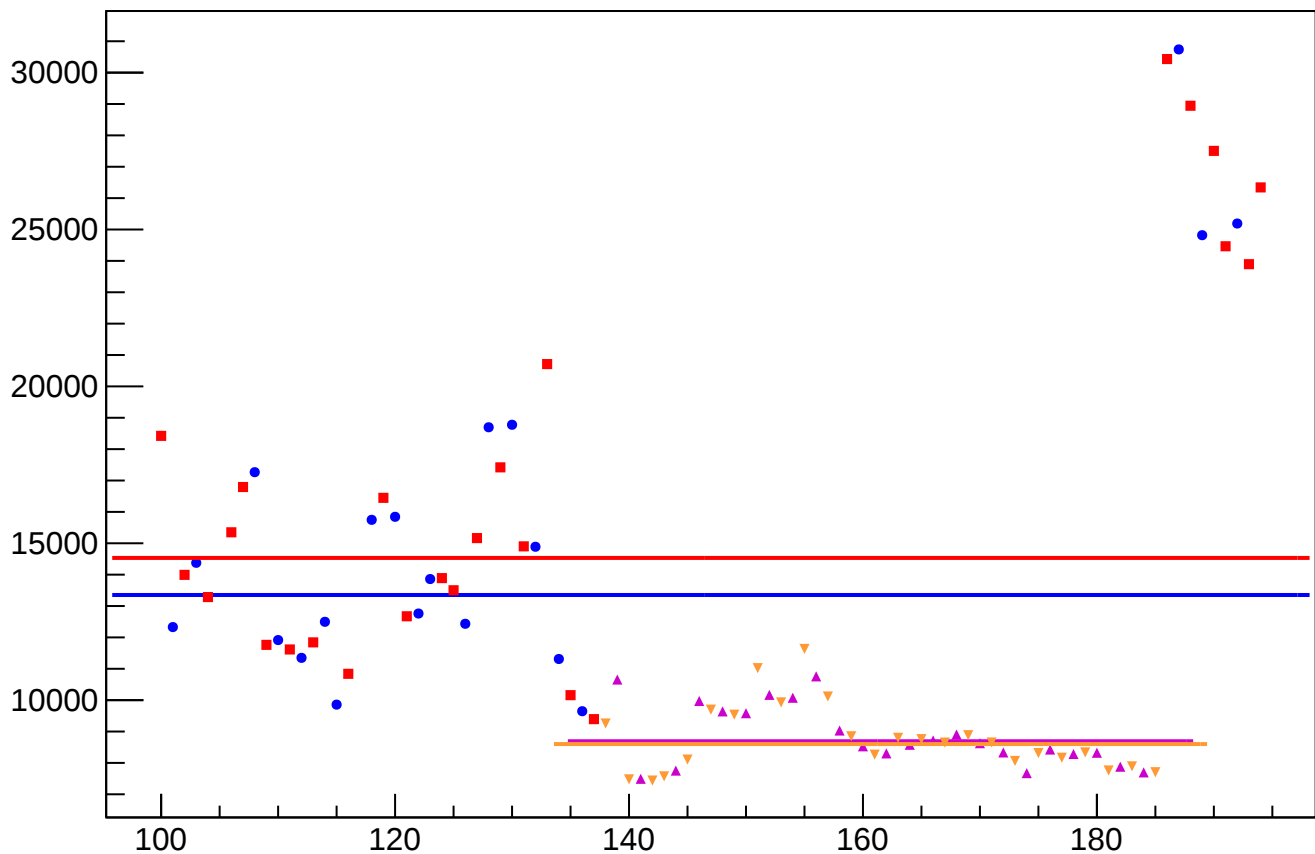
Right: 2.246 $\pm$ 3.406 χ^2/NDF : 48.3/44

In: -0.783 $\pm$ 1.924 χ^2/NDF : 55.3/42

Out: -6.261 $\pm$ 1.856 χ^2/NDF : 91.6/49

All: -3.621 $\pm$ 1.336 χ^2/NDF : 151.1/92

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 13351.715 $\pm$ 3.469 χ^2 /NDF: 1273649.3/19

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 14533.104 $\pm$ 3.347 χ^2 /NDF: 2114931.1/24

Left In: 8690.209 $\pm$ 1.479 χ^2 /NDF:370834.1/22

Left: 8643.707 $\pm$ 1.027 χ^2 /NDF: 810970.4/47

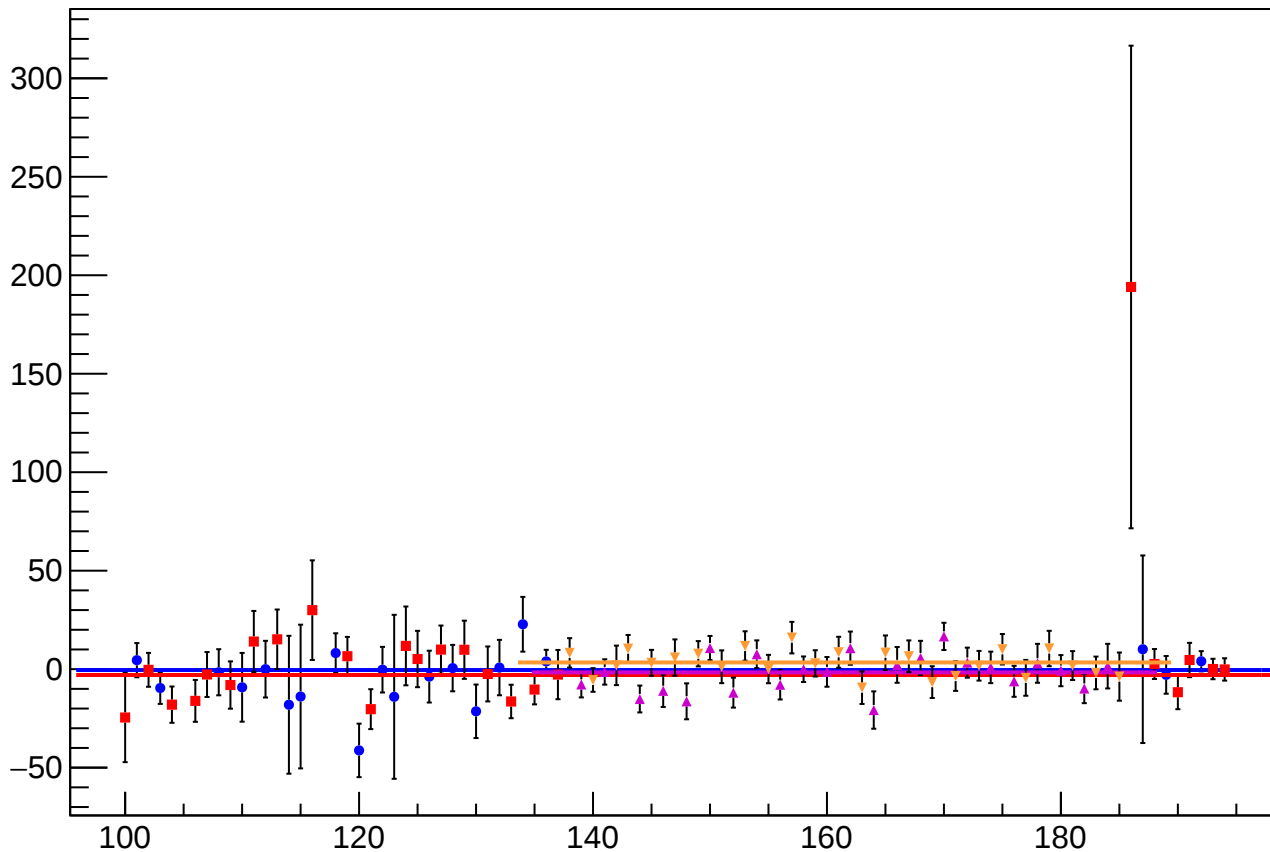
Right: 13963.492 $\pm$ 2.409 χ^2 /NDF: 3448647.4/44

In: 9407.640 $\pm$ 1.361 χ^2 /NDF:3172479.2/42

Out: 9512.695 $\pm$ 1.312 χ^2 /NDF:5211749.7/49

All: 9462.066 $\pm$ 0.945 χ^2 /NDF: 8387316.5/92

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -0.446 ± 2.385 χ^2/NDF : 18.8/19

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -2.966 ± 1.980 χ^2/NDF : 25.3/24

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

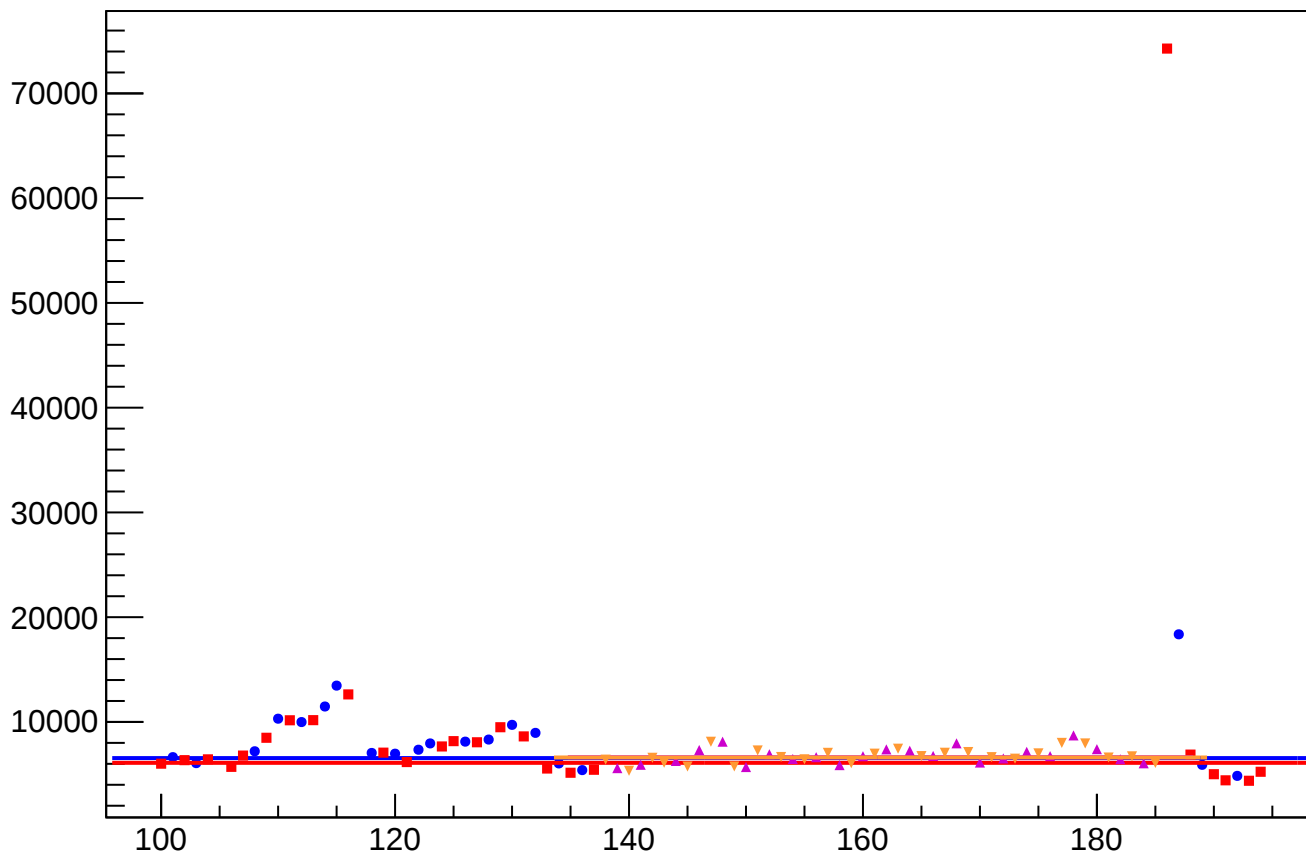
Right: -1.938 ± 1.524 χ^2/NDF : 44.8/44

In: -1.261 ± 1.328 χ^2/NDF : 52.4/42

Out: 0.984 ± 1.221 χ^2/NDF : 48.6/49

All: -0.044 ± 0.899 χ^2/NDF : 102.6/92

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6548.207 $\pm$ 1.687 χ^2/NDF : 1020697.7/19

Left Out: 6607.100 $\pm$ 1.096 χ^2/NDF : 398416.1/24

Right Out: 6095.713 $\pm$ 1.400 χ^2/NDF : 1860390.1/24

Left In: 6628.653 $\pm$ 1.131 χ^2/NDF : 430282.2/22

Left: 6617.543 $\pm$ 0.787 χ^2/NDF : 828885.6/47

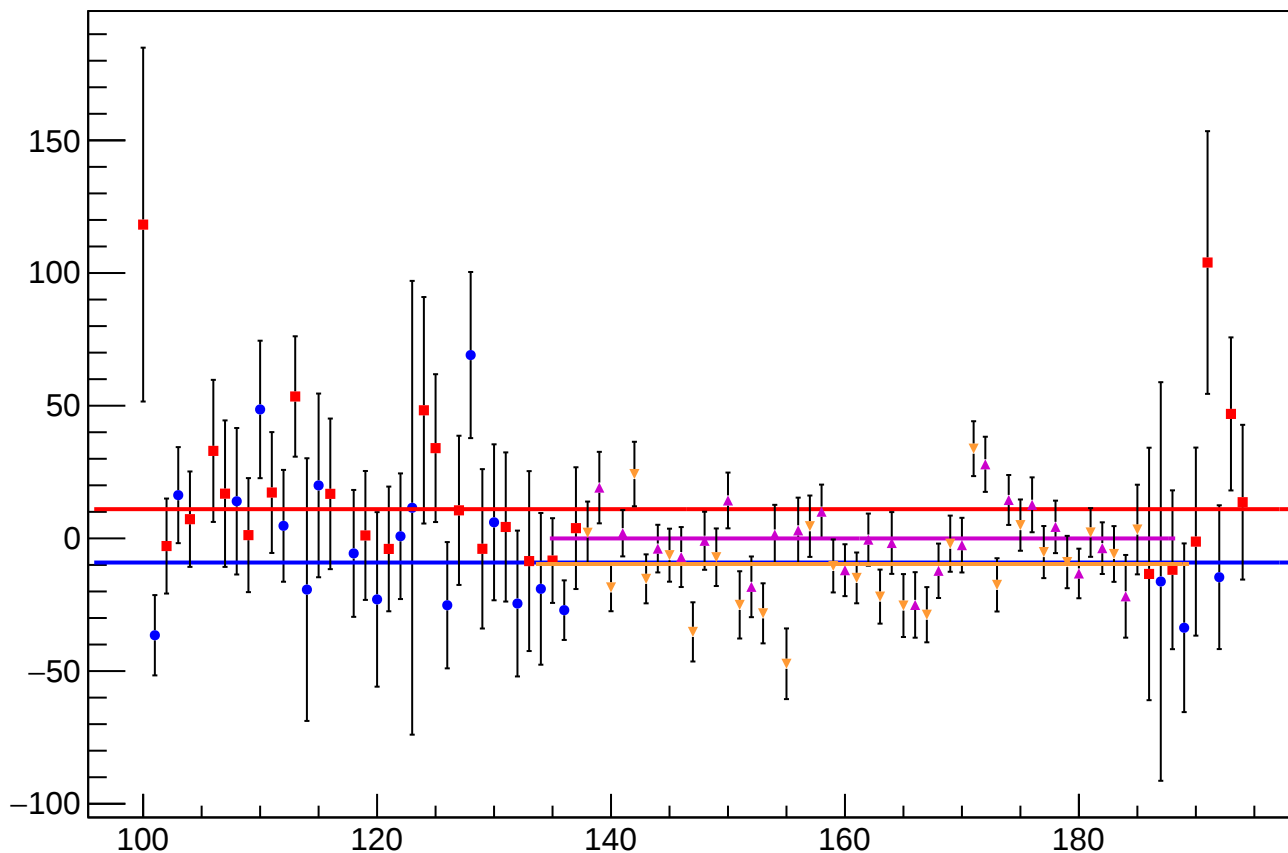
Right: 6280.350 $\pm$ 1.077 χ^2/NDF : 2923690.7/44

In: 6603.709 $\pm$ 0.939 χ^2/NDF : 1452549.2/42

Out: 6412.774 $\pm$ 0.863 χ^2/NDF : 2341486.0/49

All: 6500.209 $\pm$ 0.636 χ^2/NDF : 3816437.8/92

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.096 $\pm$ 5.325 χ^2/NDF : 23.1/19

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 11.016 $\pm$ 5.181 χ^2/NDF : 18.1/24

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

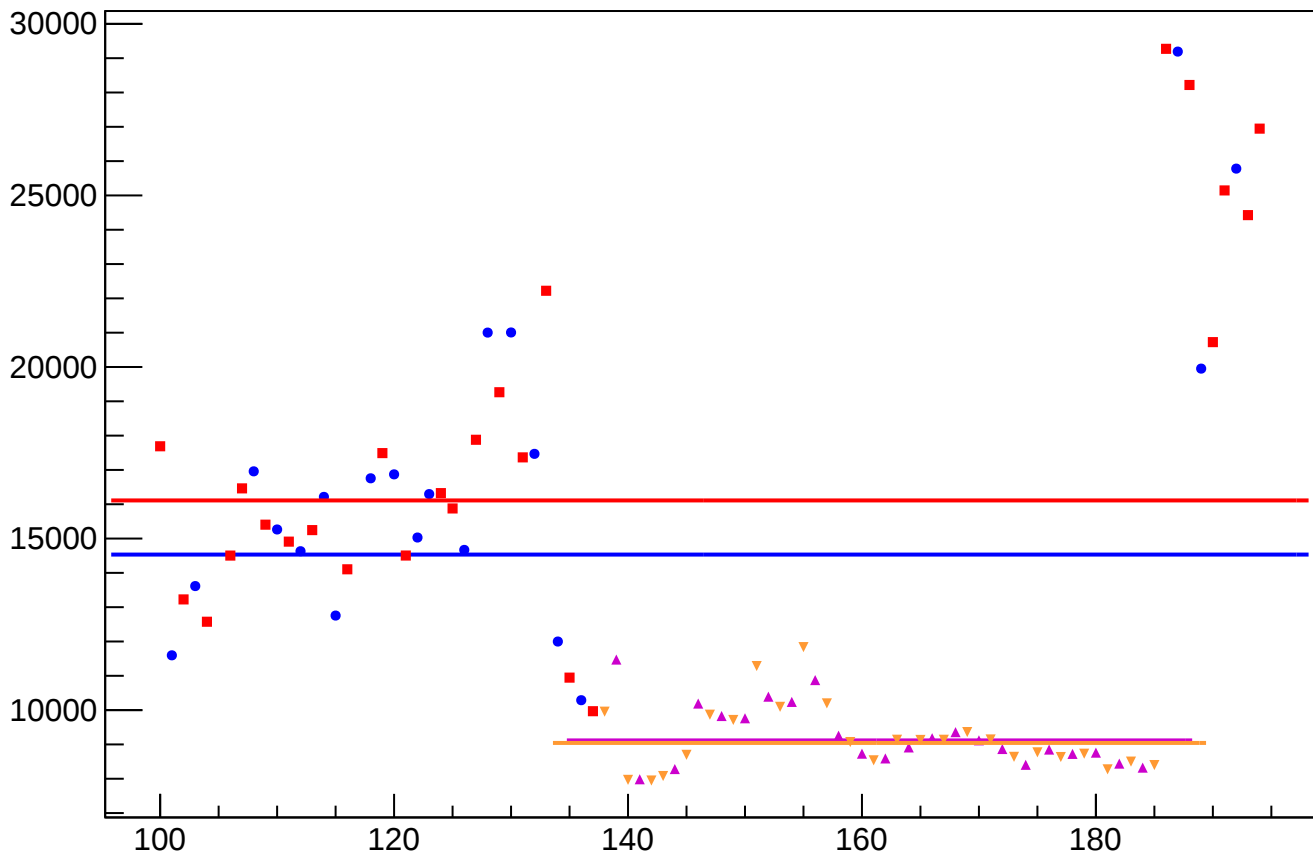
Right: 1.235 $\pm$ 3.713 χ^2/NDF : 48.5/44

In: -1.335 $\pm$ 2.027 χ^2/NDF : 56.2/42

Out: -6.690 $\pm$ 1.961 χ^2/NDF : 91.5/49

All: -4.101 $\pm$ 1.409 χ^2/NDF : 151.3/92

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14533.130 $\pm$ 3.765 χ^2 /NDF: 1120192.5/19

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF: 328192.2/24

Right Out: 16111.090 $\pm$ 3.664 χ^2 /NDF: 1649797.9/24

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF: 277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

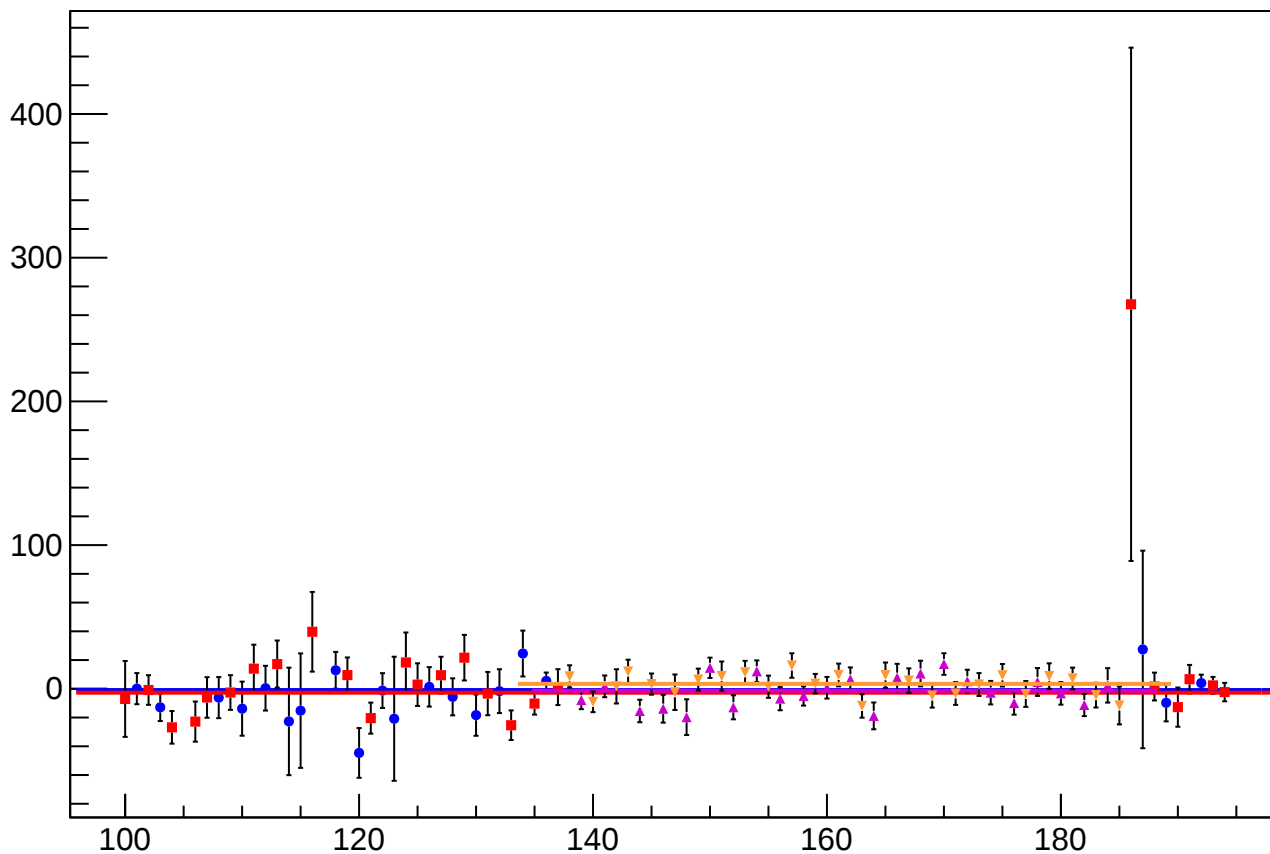
Right: 15343.650 $\pm$ 2.626 χ^2 /NDF: 2860209.4/44

In: 9901.785 $\pm$ 1.433 χ^2 /NDF: 3167246.5/42

Out: 10055.586 $\pm$ 1.386 χ^2 /NDF: 5166442.1/49

All: 9981.240 $\pm$ 0.997 χ^2 /NDF: 8339637.4/92

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -0.872 ± 2.684 χ^2/NDF : 17.1/19

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -2.704 ± 2.279 χ^2/NDF : 30.2/24

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

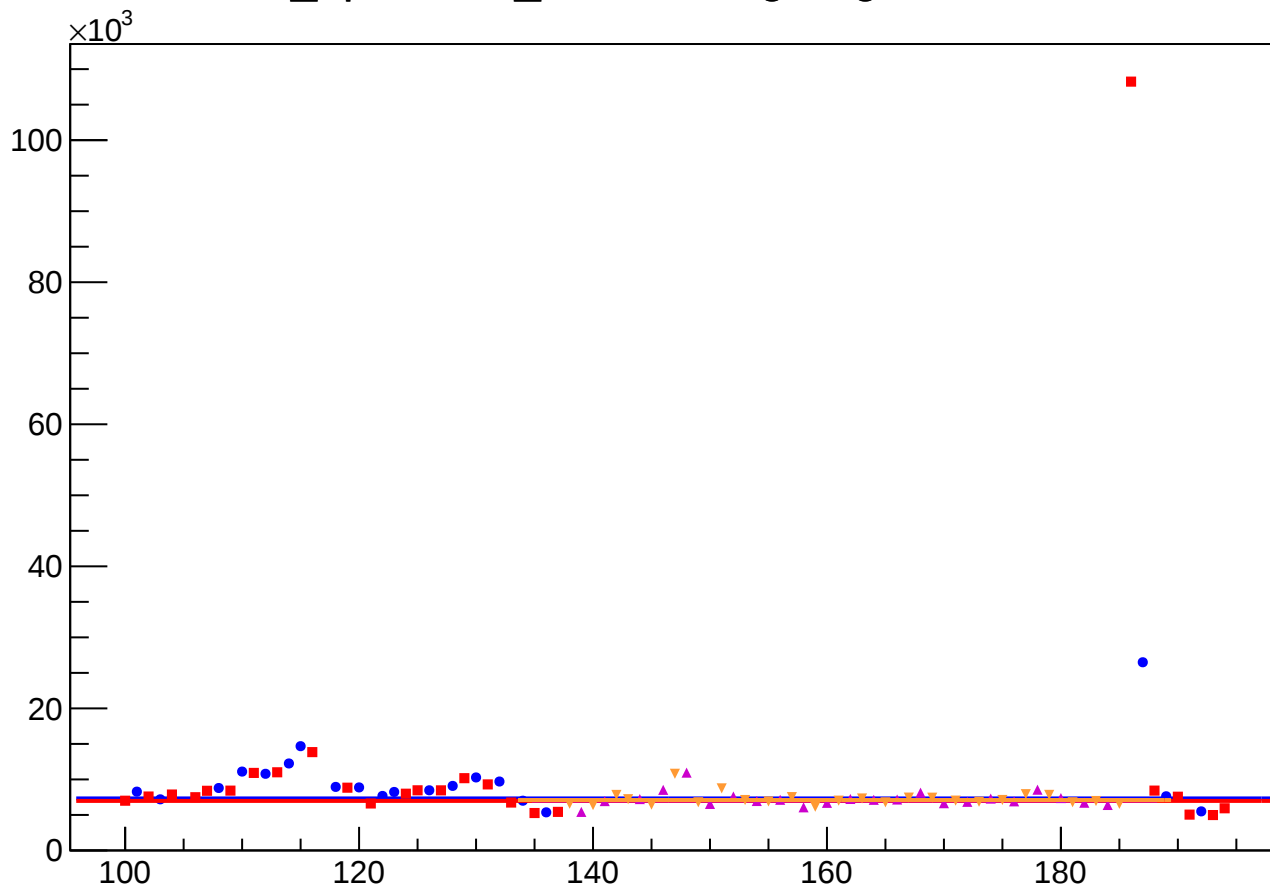
Right: -1.936 ± 1.737 χ^2/NDF : 47.6/44

In: -1.171 ± 1.437 χ^2/NDF : 53.7/42

Out: 1.299 ± 1.345 χ^2/NDF : 53.8/49

All: 0.146 ± 0.982 χ^2/NDF : 109.1/92

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7323.802 $\pm$ 1.898 χ^2/NDF : 1133824.7/19

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6975.978 $\pm$ 1.611 χ^2/NDF : 1832733.1/24

Left In: 7033.702 $\pm$ 1.203 χ^2/NDF : 541035.5/22

Left: 7066.886 $\pm$ 0.842 χ^2/NDF : 925077.6/47

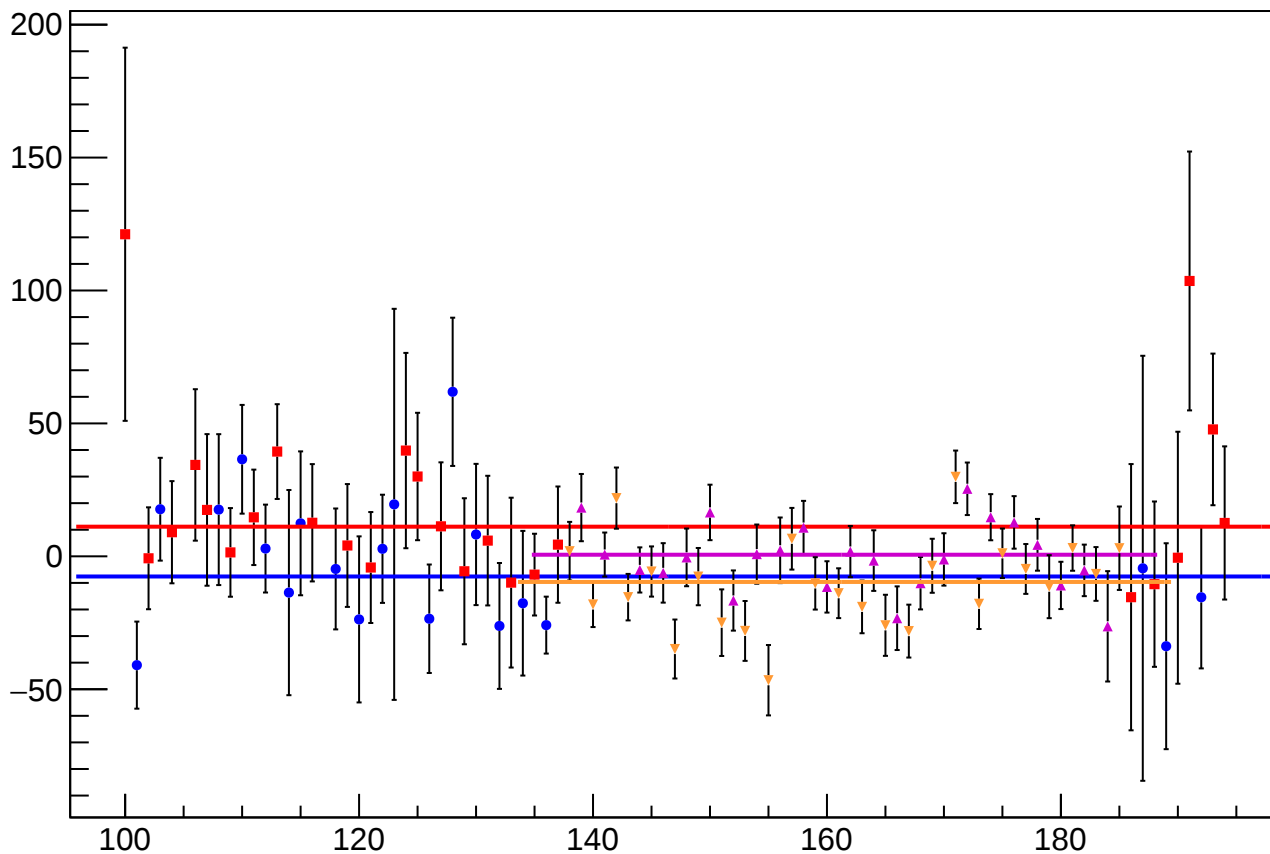
Right: 7121.659 $\pm$ 1.228 χ^2/NDF : 2986078.4/44

In: 7116.824 $\pm$ 1.016 χ^2/NDF : 1691530.6/42

Out: 7055.961 $\pm$ 0.951 χ^2/NDF : 2219065.8/49

All: 7084.386 $\pm$ 0.694 χ^2/NDF : 3912509.3/92

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.585 ± 4.971 χ^2/NDF : 24.3/19

Left Out: -9.640 ± 2.057 χ^2/NDF : 57.6/24

Right Out: 11.151 ± 4.799 χ^2/NDF : 16.7/24

Left In: 0.599 ± 2.135 χ^2/NDF : 29.7/22

Left: -4.710 ± 1.481 χ^2/NDF : 99.2/47

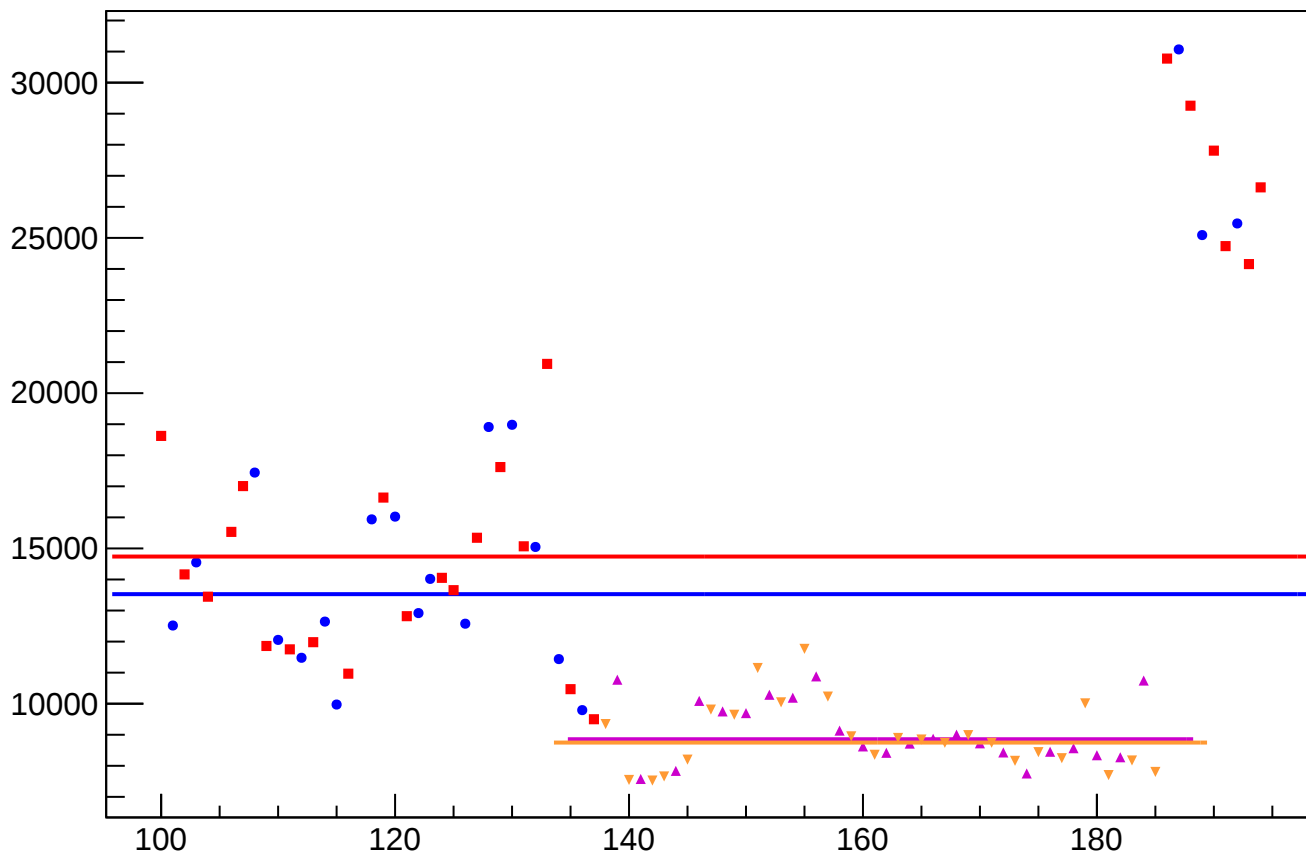
Right: 2.112 ± 3.453 χ^2/NDF : 48.4/44

In: -0.675 ± 1.962 χ^2/NDF : 56.3/42

Out: -6.413 ± 1.891 χ^2/NDF : 90.2/49

All: -3.650 ± 1.361 χ^2/NDF : 150.9/92

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13527.652 $\pm$ 3.515 χ^2 /NDF: 1264061.9/19

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 14738.692 $\pm$ 3.394 χ^2 /NDF: 2091919.1/24

Left In: 8855.591 $\pm$ 1.510 χ^2 /NDF:367542.7/22

Left: 8800.011 $\pm$ 1.048 χ^2 /NDF: 833550.6/47

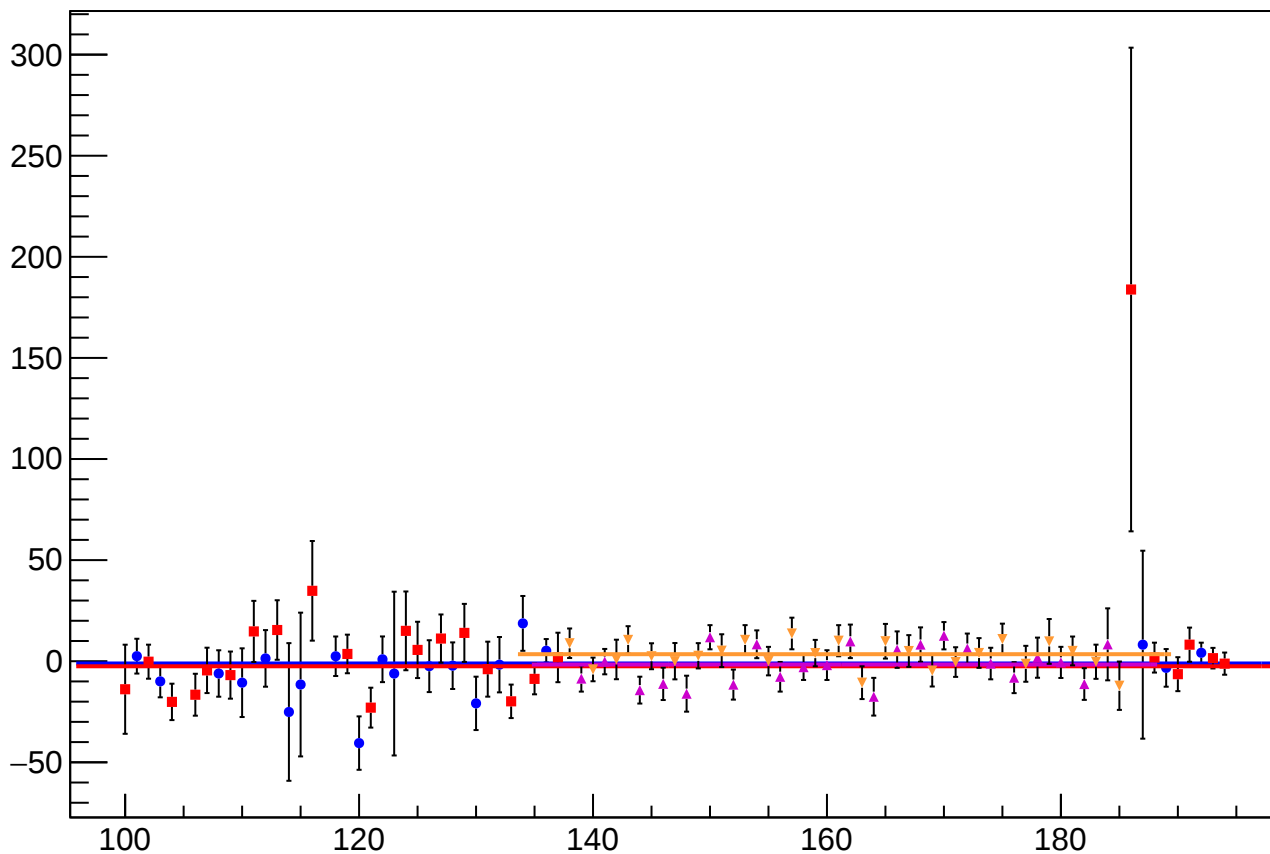
Right: 14154.435 $\pm$ 2.441 χ^2 /NDF: 3417421.6/44

In: 9583.266 $\pm$ 1.387 χ^2 /NDF:3123254.7/42

Out: 9678.287 $\pm$ 1.337 χ^2 /NDF:5187551.2/49

All: 9632.524 $\pm$ 0.963 χ^2 /NDF: 8313238.3/92

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -1.122 $\pm$ 2.331 χ^2/NDF : 18.4/19

Left Out: 3.473 $\pm$ 1.524 χ^2/NDF :15.8/24

Right Out: -2.509 $\pm$ 1.935 χ^2/NDF : 30.2/24

Left In: -1.638 $\pm$ 1.578 χ^2/NDF :33.7/22

Left: 1.006 $\pm$ 1.096 χ^2/NDF : 54.9/47

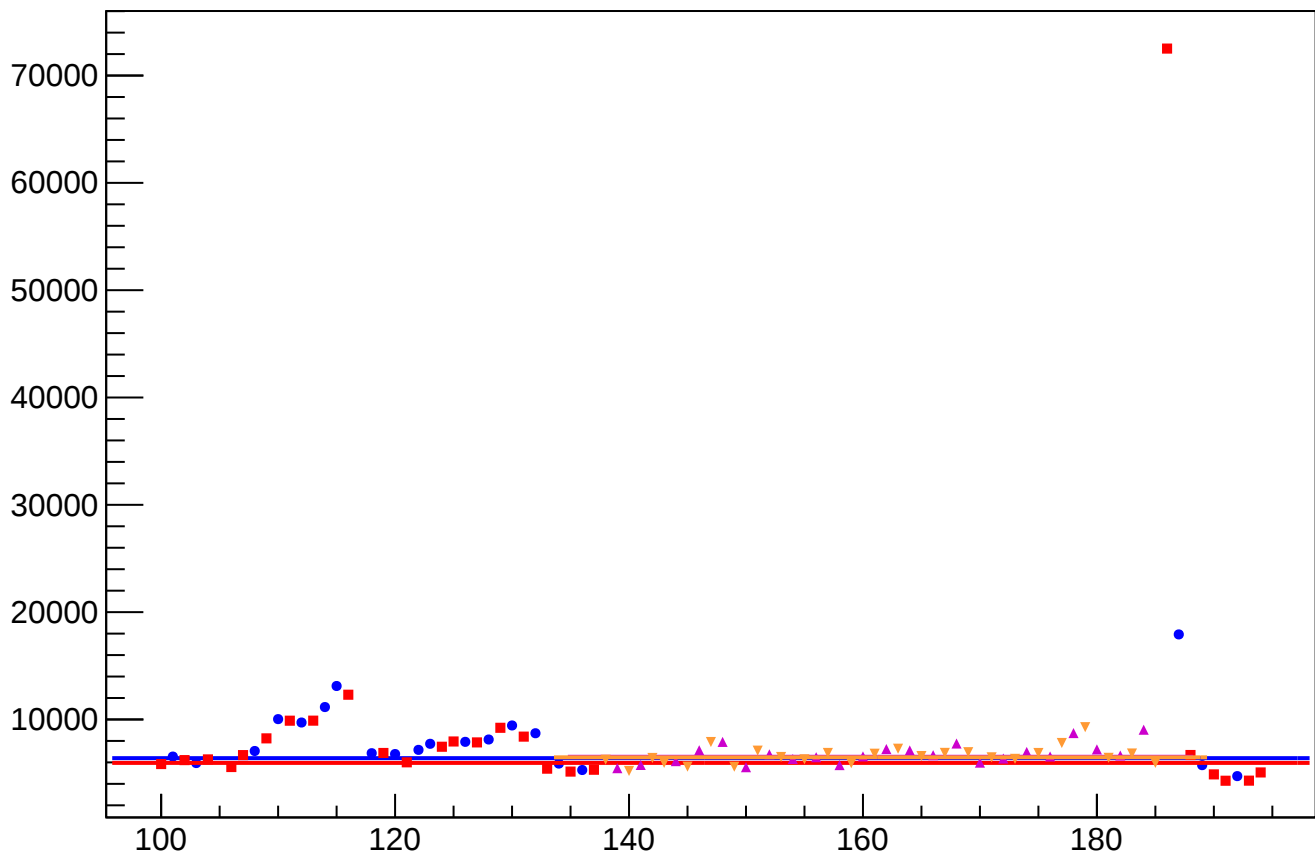
Right: -1.943 $\pm$ 1.489 χ^2/NDF : 48.8/44

In: -1.476 $\pm$ 1.307 χ^2/NDF :52.2/42

Out: 1.183 $\pm$ 1.197 χ^2/NDF :51.9/49

All: -0.031 $\pm$ 0.883 χ^2/NDF : 106.3/92

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6394.664 $\pm$ 1.648 χ^2 /NDF: 1016961.2/19

Left Out: 6471.976 $\pm$ 1.078 χ^2 /NDF: 490282.9/24

Right Out: 5953.049 $\pm$ 1.368 χ^2 /NDF: 1845462.4/24

Left In: 6521.975 $\pm$ 1.116 χ^2 /NDF: 480034.7/22

Left: 6496.112 $\pm$ 0.775 χ^2 /NDF: 971356.4/47

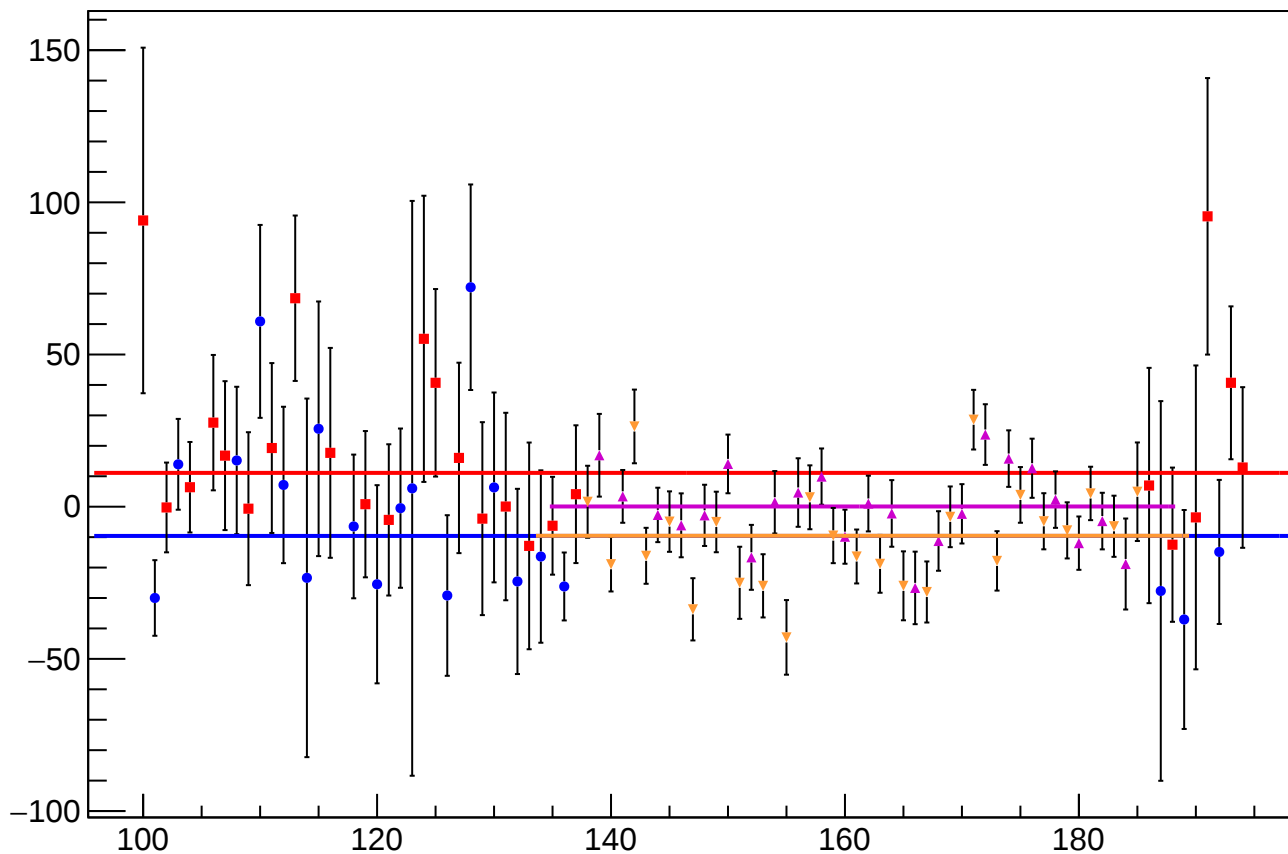
Right: 6133.206 $\pm$ 1.053 χ^2 /NDF: 2904916.0/44

In: 6481.976 $\pm$ 0.924 χ^2 /NDF: 1501086.7/42

Out: 6273.280 $\pm$ 0.847 χ^2 /NDF: 2424498.7/49

All: 6368.538 $\pm$ 0.624 χ^2 /NDF: 3953315.1/92

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.606 ± 5.208 χ^2/NDF : 22.7/19

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 11.111 ± 5.068 χ^2/NDF : 18.5/24

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

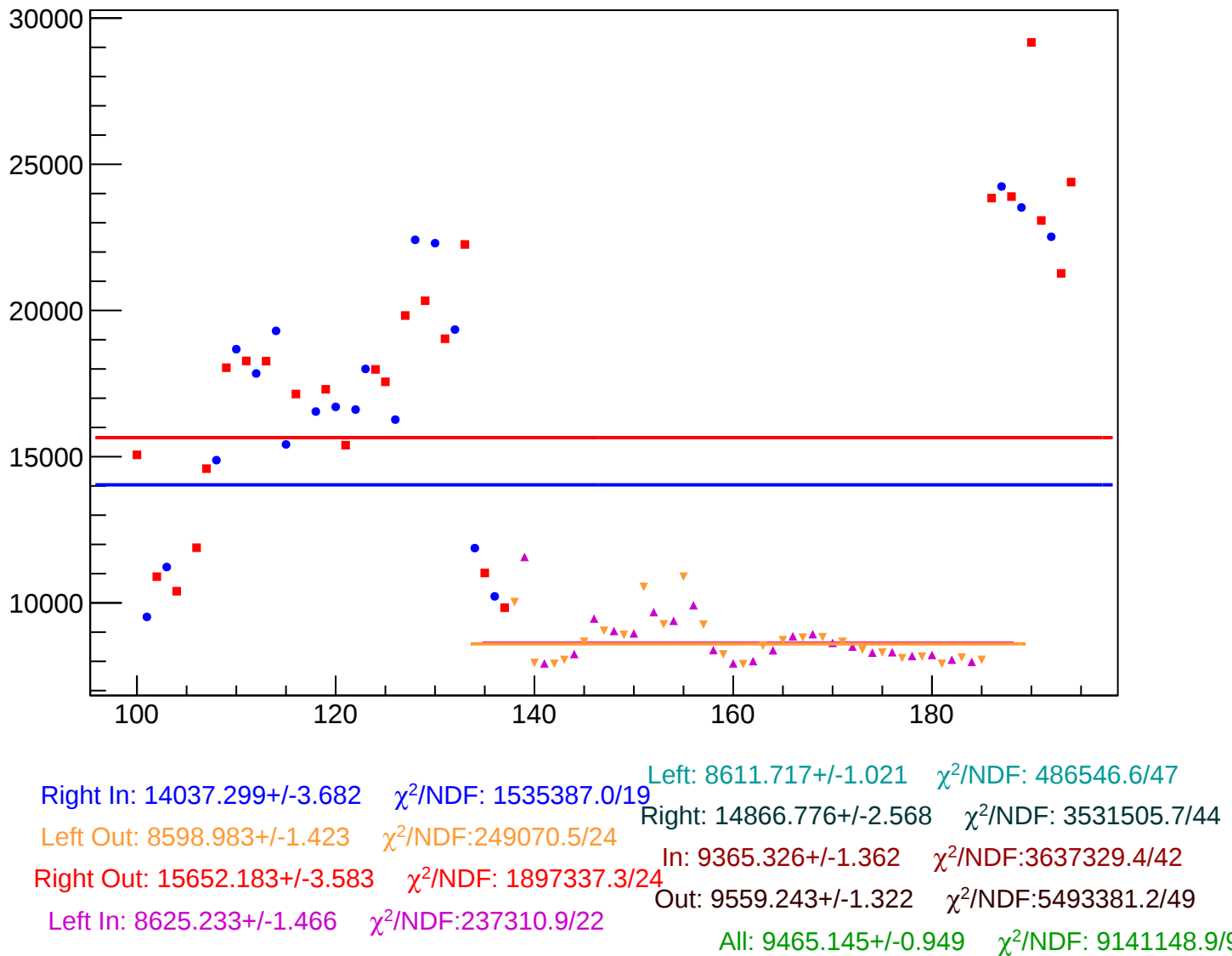
Right: 1.035 ± 3.632 χ^2/NDF : 49.3/44

In: -1.252 ± 1.926 χ^2/NDF : 55.5/42

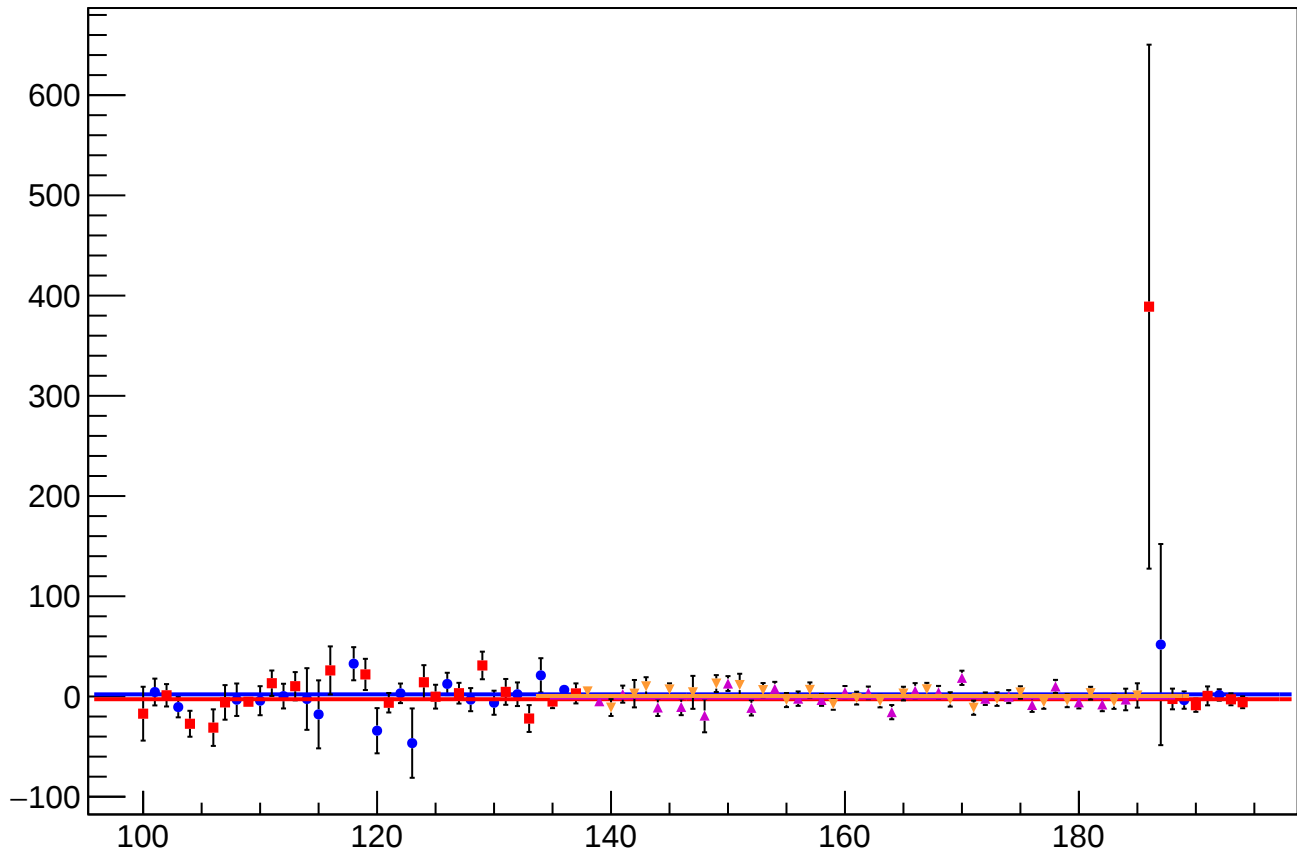
Out: -6.741 ± 1.870 χ^2/NDF : 92.5/49

All: -4.077 ± 1.342 χ^2/NDF : 152.1/92

diff_bpm1X_rms vs Slug, Sign Corrected



diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.129 ± 2.388 $\chi^2/\text{NDF}: 14.7/19$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -2.728 ± 1.933 $\chi^2/\text{NDF}: 26.9/24$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

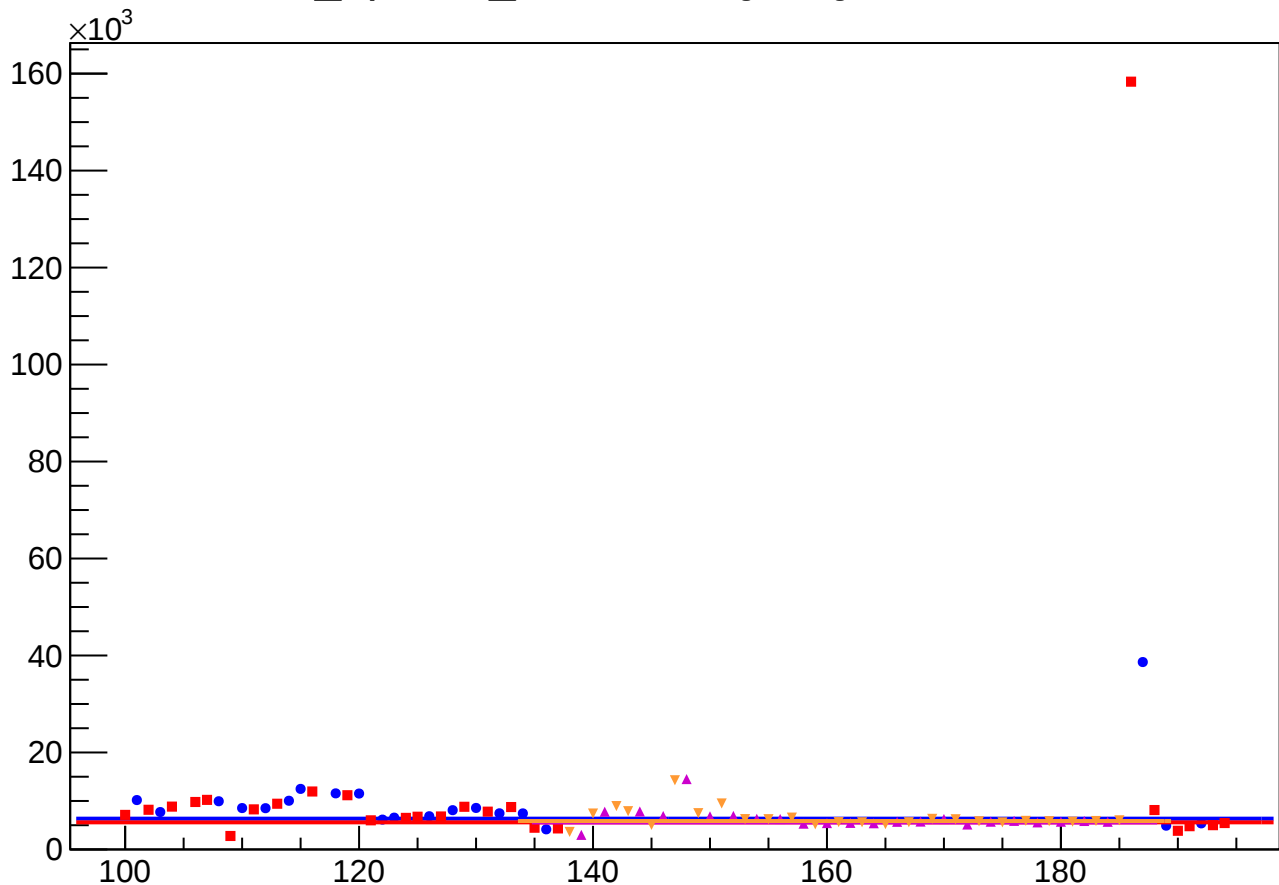
Right: -0.805 ± 1.502 $\chi^2/\text{NDF}: 44.1/44$

In: -0.240 ± 1.205 $\chi^2/\text{NDF}: 48.6/42$

Out: -0.611 ± 1.143 $\chi^2/\text{NDF}: 48.2/49$

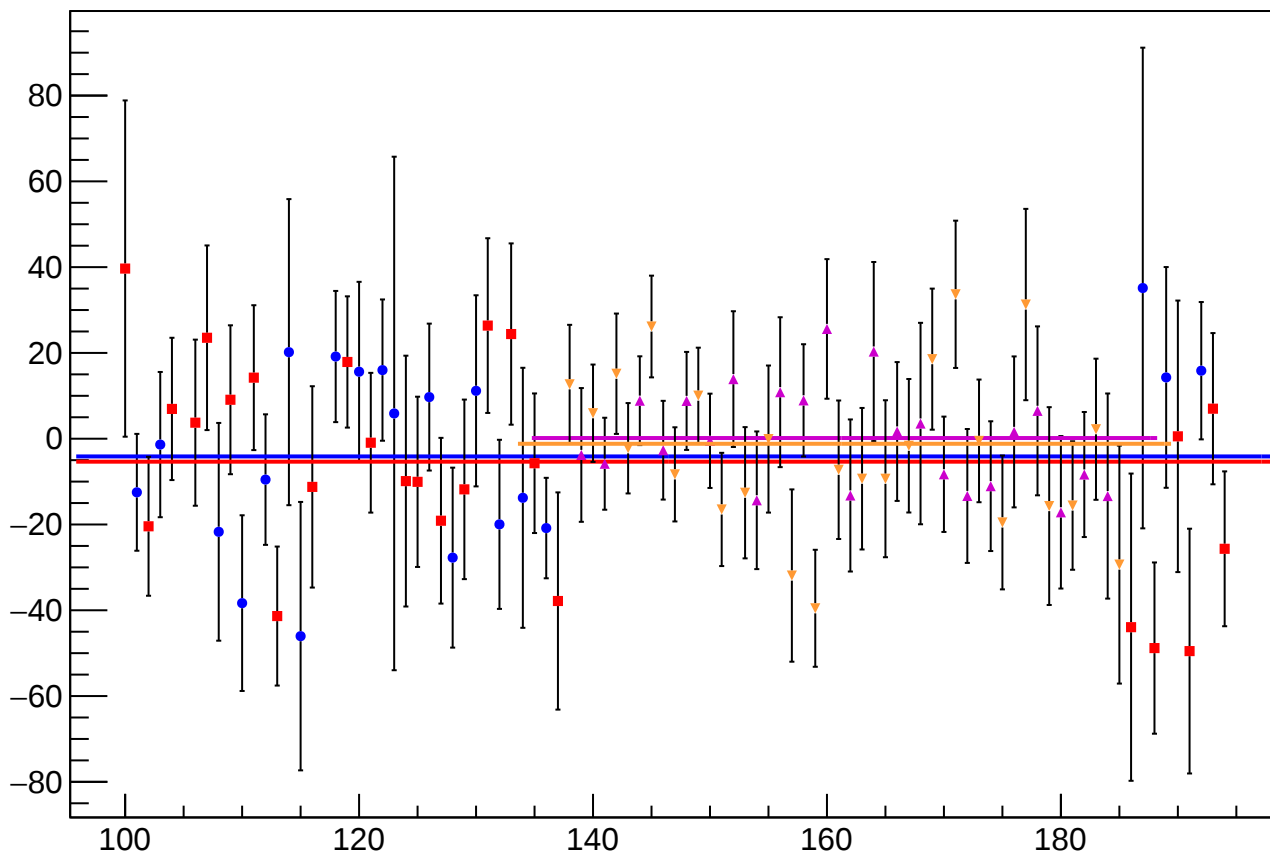
All: -0.435 ± 0.829 $\chi^2/\text{NDF}: 96.9/92$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6350.735 ± 1.688	$\chi^2/\text{NDF}: 1743475.3/19$	Left: 5713.698 ± 0.703	$\chi^2/\text{NDF}: 3895130.2/47$
Left Out: 5860.605 ± 1.002	$\chi^2/\text{NDF}: 1690049.2/24$	Right: 5891.076 ± 1.062	$\chi^2/\text{NDF}: 5147204.5/44$
Right Out: 5589.853 ± 1.367	$\chi^2/\text{NDF}: 3281044.2/24$	In: 5769.776 ± 0.852	$\chi^2/\text{NDF}: 4065099.0/42$
Left In: 5571.330 ± 0.987	$\chi^2/\text{NDF}: 2162788.3/22$	Out: 5765.910 ± 0.808	$\chi^2/\text{NDF}: 4996609.3/49$
		All: 5767.741 ± 0.586	$\chi^2/\text{NDF}: 9061719.1/92$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.133 ± 4.310 χ^2/NDF : 18.5/19

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -5.354 ± 3.957 χ^2/NDF : 31.0/24

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

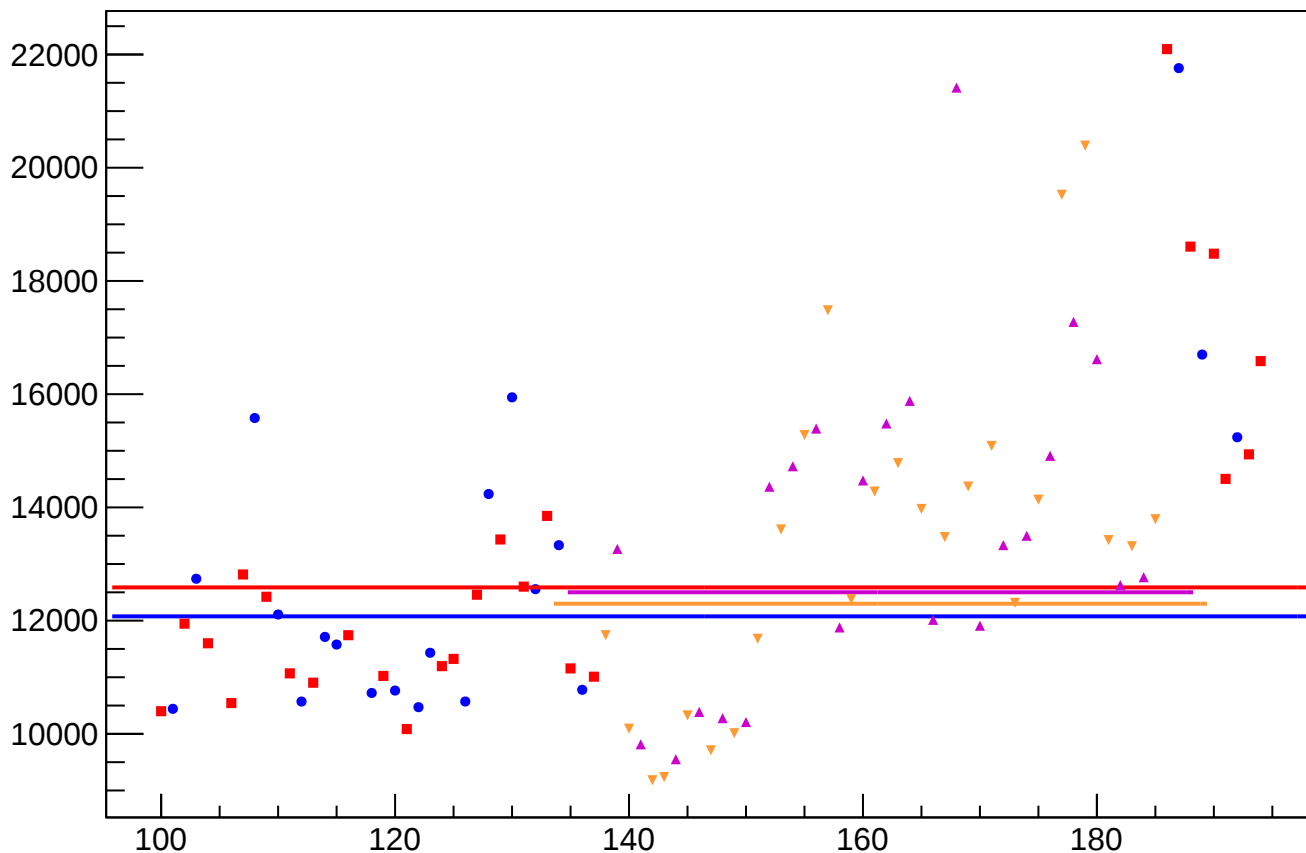
Right: -4.796 ± 2.915 χ^2/NDF : 49.6/44

In: -1.280 ± 2.494 χ^2/NDF : 30.7/42

Out: -2.665 ± 2.359 χ^2/NDF : 65.4/49

All: -2.011 ± 1.714 χ^2/NDF : 96.3/92

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12075.648+/-3.048

χ^2/NDF : 461409.4/19

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

Right Out: 12587.040+/-2.798

χ^2/NDF : 728691.2/24

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

Left: 12395.720+/-1.498

χ^2/NDF : 2868458.0/47

Right: 12353.141+/-2.061

χ^2/NDF : 1205379.9/44

In: 12358.430+/-1.764

χ^2/NDF : 1832243.1/42

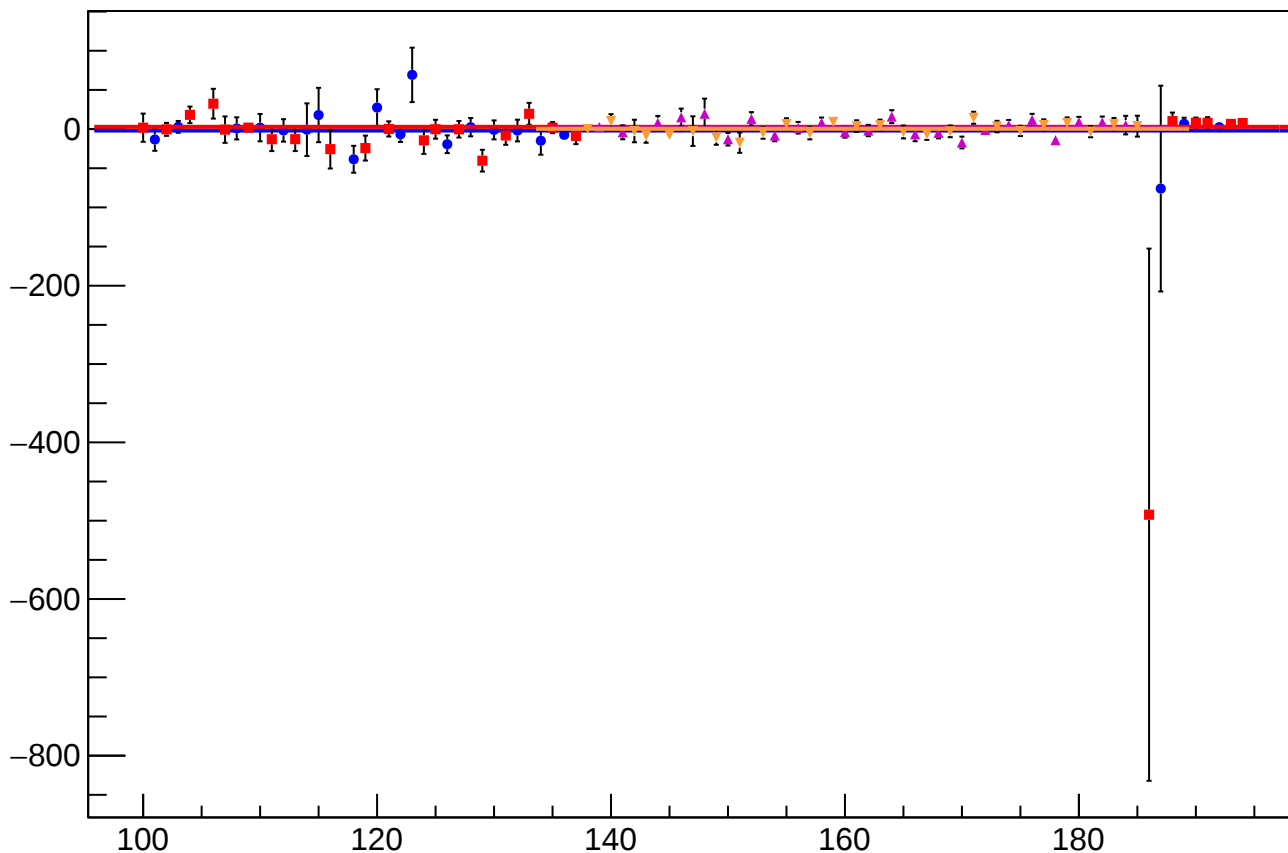
Out: 12401.194+/-1.668

χ^2/NDF : 2241563.7/49

All: 12380.998+/-1.212

χ^2/NDF : 4074117.1/95

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -1.871 ± 2.236 χ^2/NDF : 18.9/19

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: 2.903 ± 1.797 χ^2/NDF : 31.0/24

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

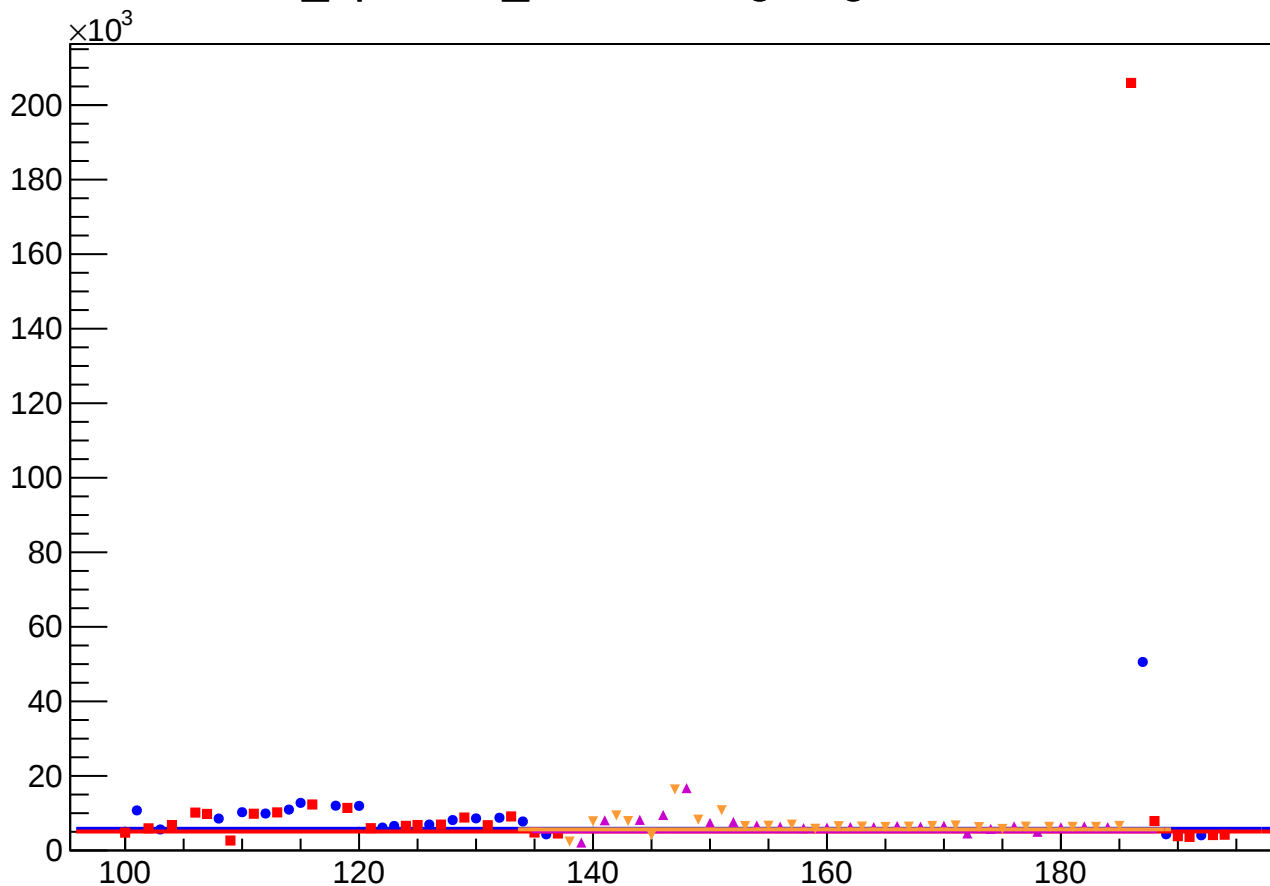
Right: 1.030 ± 1.401 χ^2/NDF : 52.8/44

In: 0.335 ± 1.169 χ^2/NDF : 53.9/42

Out: 1.345 ± 1.121 χ^2/NDF : 51.4/49

All: 0.861 ± 0.809 χ^2/NDF : 105.7/92

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5806.225 $\pm$ 1.581 χ^2/NDF : 2290025.6/19

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 5082.564 $\pm$ 1.271 χ^2/NDF : 3450580.1/24

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

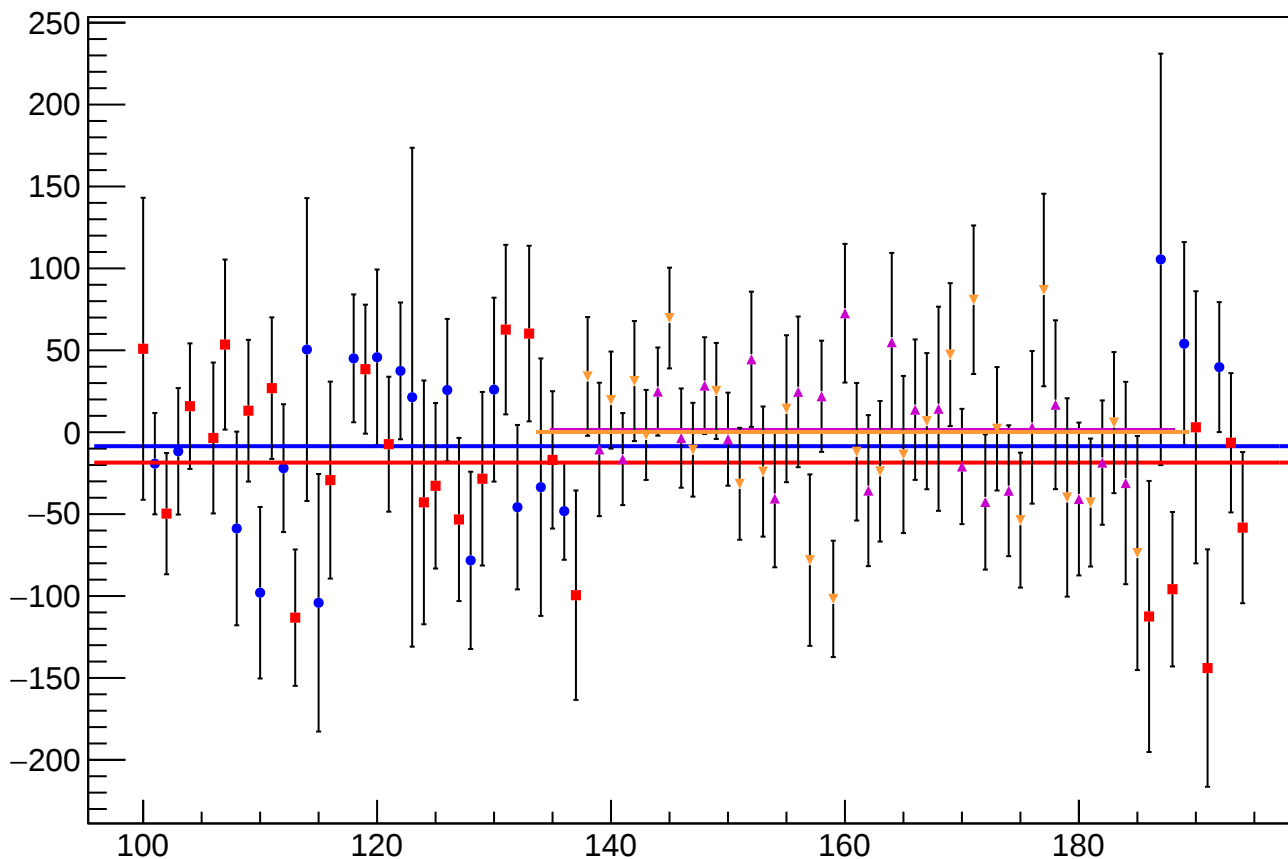
Right: 5366.535 $\pm$ 0.990 χ^2/NDF : 5867896.6/44

In: 5320.497 $\pm$ 0.827 χ^2/NDF : 7915526.4/42

Out: 5435.104 $\pm$ 0.792 χ^2/NDF : 7705137.5/49

All: 5380.225 $\pm$ 0.572 χ^2/NDF : 15630682.0/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.534 ± 10.680 χ^2/NDF : 18.4/19

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -18.537 ± 9.829 χ^2/NDF : 27.9/24

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

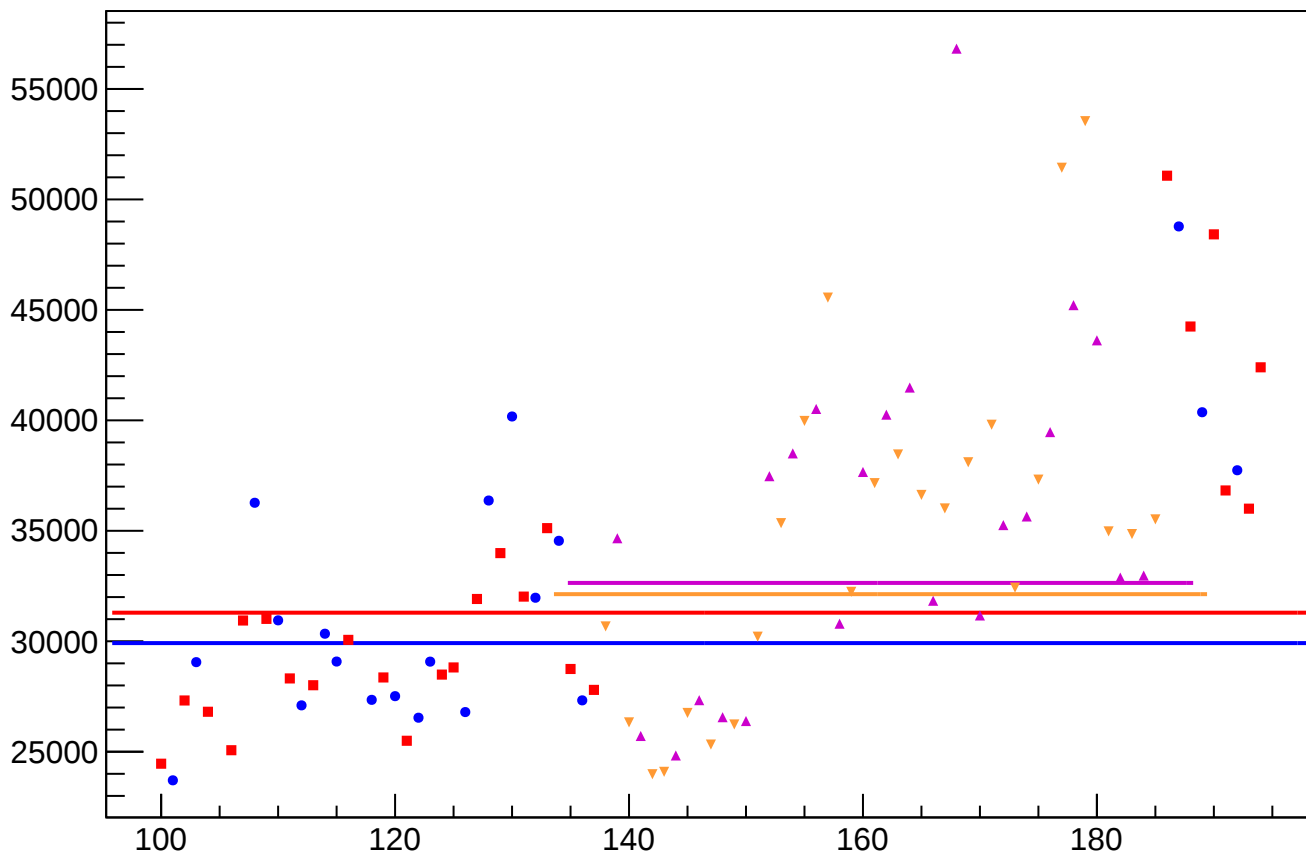
Right: -13.950 ± 7.233 χ^2/NDF : 46.8/44

In: -2.181 ± 6.398 χ^2/NDF : 32.2/42

Out: -6.942 ± 6.053 χ^2/NDF : 61.4/49

All: -4.693 ± 4.397 χ^2/NDF : 93.9/92

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29917.220 $\pm$ 7.552

χ^2/NDF : 452883.4/19

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

Right Out: 31293.755 $\pm$ 6.950

χ^2/NDF : 711140.7/24

Left In: 32641.162 $\pm$ 5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774 $\pm$ 3.916

χ^2/NDF : 2946456.2/47

Right: 30662.501 $\pm$ 5.114

χ^2/NDF : 1182011.3/44

In: 31663.680 $\pm$ 4.524

χ^2/NDF : 1938454.7/42

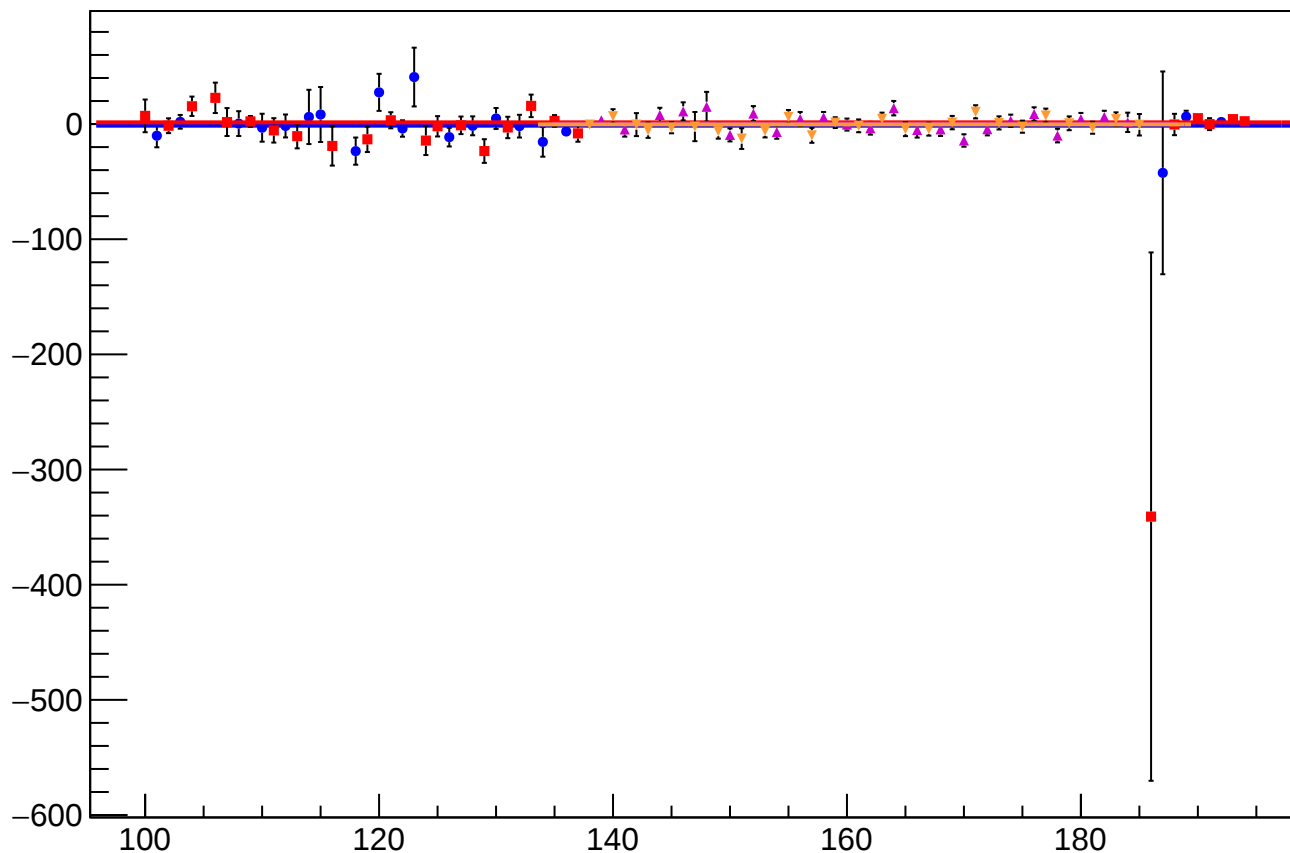
Out: 31814.279 $\pm$ 4.280

χ^2/NDF : 2260255.5/49

All: 31743.144 $\pm$ 3.109

χ^2/NDF : 4199294.9/95

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.387 ± 1.609 χ^2/NDF : 19.9/19

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 1.484 ± 1.326 χ^2/NDF : 26.6/24

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

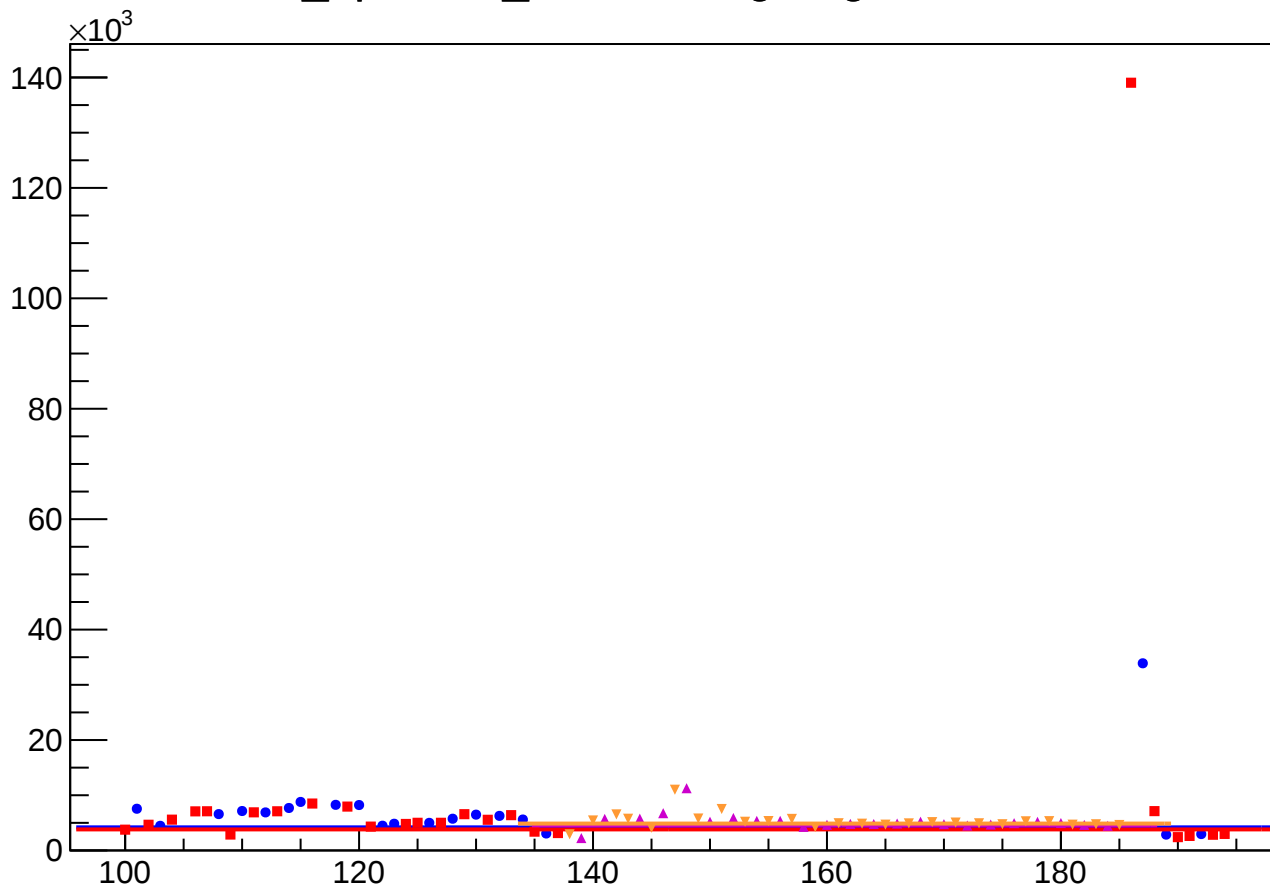
Right: 0.323 ± 1.023 χ^2/NDF : 48.4/44

In: 0.139 ± 0.931 χ^2/NDF : 57.5/42

Out: 0.475 ± 0.878 χ^2/NDF : 45.2/49

All: 0.317 ± 0.639 χ^2/NDF : 102.8/92

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4184.292 ± 1.138 $\chi^2/\text{NDF}: 2298173.7/19$

Left Out: 4868.567 ± 0.829 $\chi^2/\text{NDF}: 1511151.0/24$

Right Out: 3811.865 ± 0.938 $\chi^2/\text{NDF}: 3333554.0/24$

Left In: 4544.337 ± 0.808 $\chi^2/\text{NDF}: 2634314.4/22$

Left: 4702.320 ± 0.578 $\chi^2/\text{NDF}: 4223993.0/47$

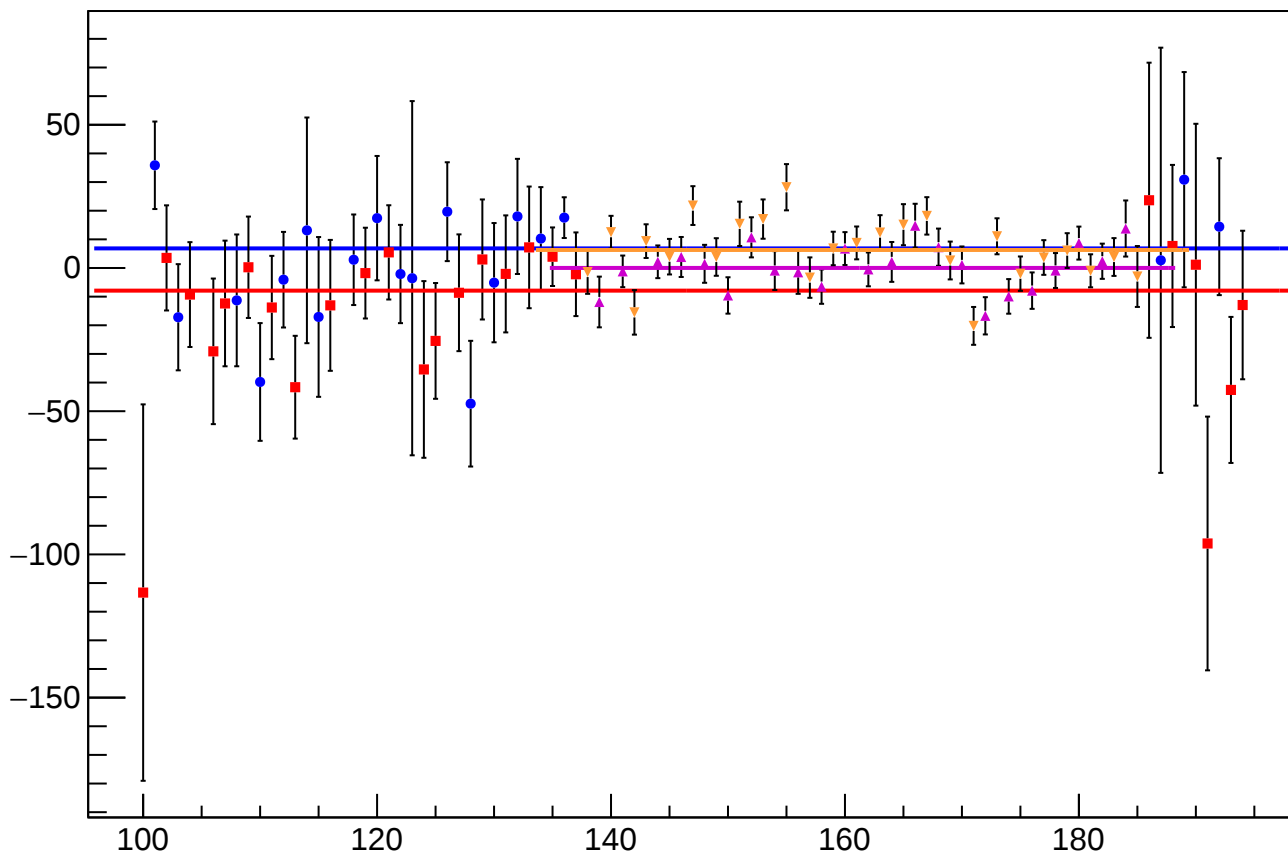
Right: 3962.445 ± 0.724 $\chi^2/\text{NDF}: 5695532.2/44$

In: 4423.726 ± 0.659 $\chi^2/\text{NDF}: 4999061.0/42$

Out: 4405.197 ± 0.621 $\chi^2/\text{NDF}: 5558040.1/49$

All: 4413.914 ± 0.452 $\chi^2/\text{NDF}: 10557520.2/99$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.842 $\pm$ 4.001 χ^2 /NDF: 23.0/19

Left Out: 6.296 $\pm$ 1.310 χ^2 /NDF:56.5/24

Right Out: -7.903 $\pm$ 4.034 χ^2 /NDF: 18.9/24

Left In: 0.020 $\pm$ 1.353 χ^2 /NDF:29.9/22

Left: 3.259 $\pm$ 0.941 χ^2 /NDF: 97.5/47

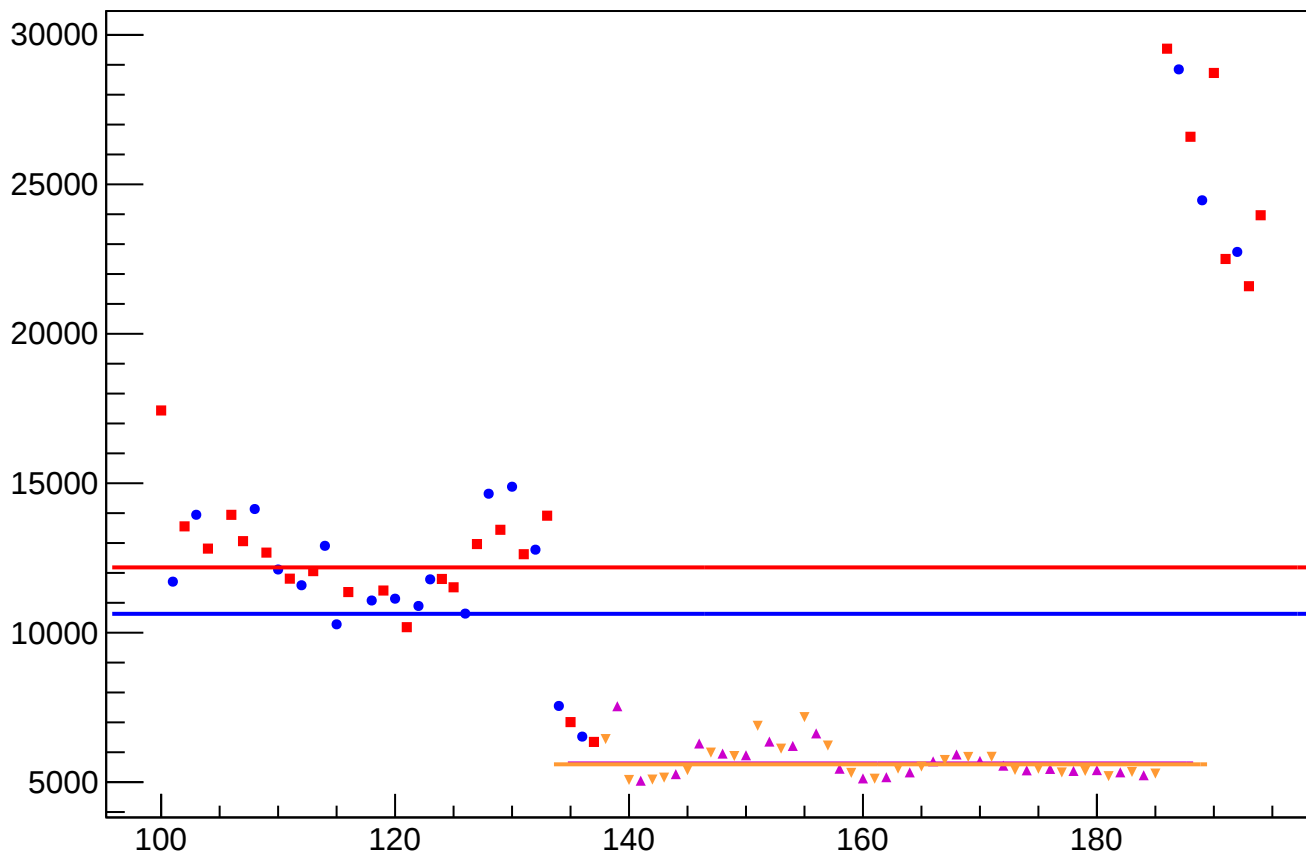
Right: -0.471 $\pm$ 2.841 χ^2 /NDF: 48.6/44

In: 0.720 $\pm$ 1.282 χ^2 /NDF:55.5/42

Out: 4.941 $\pm$ 1.246 χ^2 /NDF:86.7/49

All: 2.890 $\pm$ 0.893 χ^2 /NDF: 147.7/92

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10631.170 $\pm$ 2.829 χ^2 /NDF: 1951994.1/19

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 12184.614 $\pm$ 2.852 χ^2 /NDF: 2736740.9/24

Left In: 5627.283 $\pm$ 0.957 χ^2 /NDF: 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2 /NDF: 563855.6/47

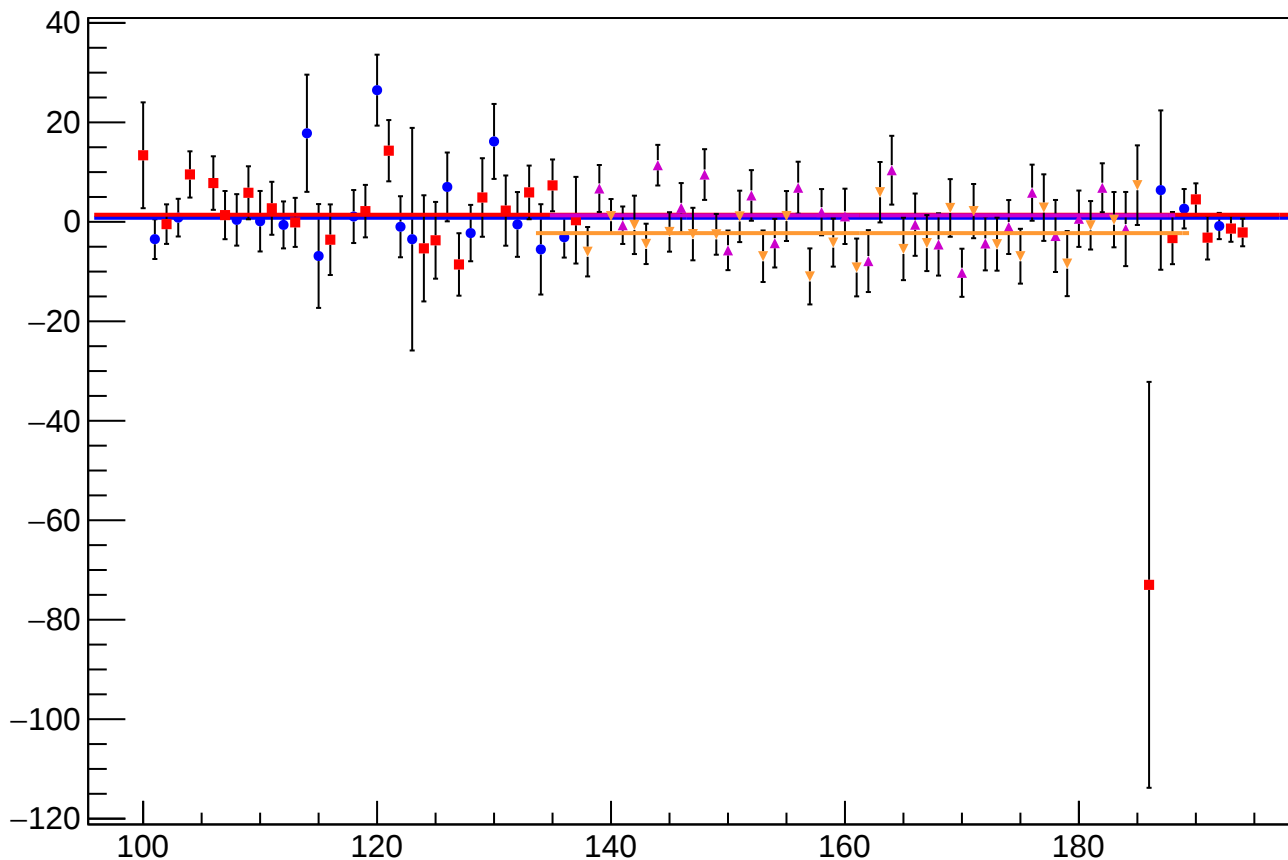
Right: 11401.579 $\pm$ 2.009 χ^2 /NDF: 4838248.5/44

In: 6140.809 $\pm$ 0.906 χ^2 /NDF: 5038372.2/42

Out: 6225.079 $\pm$ 0.881 χ^2 /NDF: 7846721.6/49

All: 6184.133 $\pm$ 0.632 χ^2 /NDF: 12889538.1/95

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.822 $\pm$ 1.180 χ^2/NDF : 24.4/19

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF :15.4/24

Right Out: 1.429 $\pm$ 0.992 χ^2/NDF : 26.1/24

Left In: 1.305 $\pm$ 1.077 χ^2/NDF :30.8/22

Left: -0.562 $\pm$ 0.744 χ^2/NDF : 51.9/47

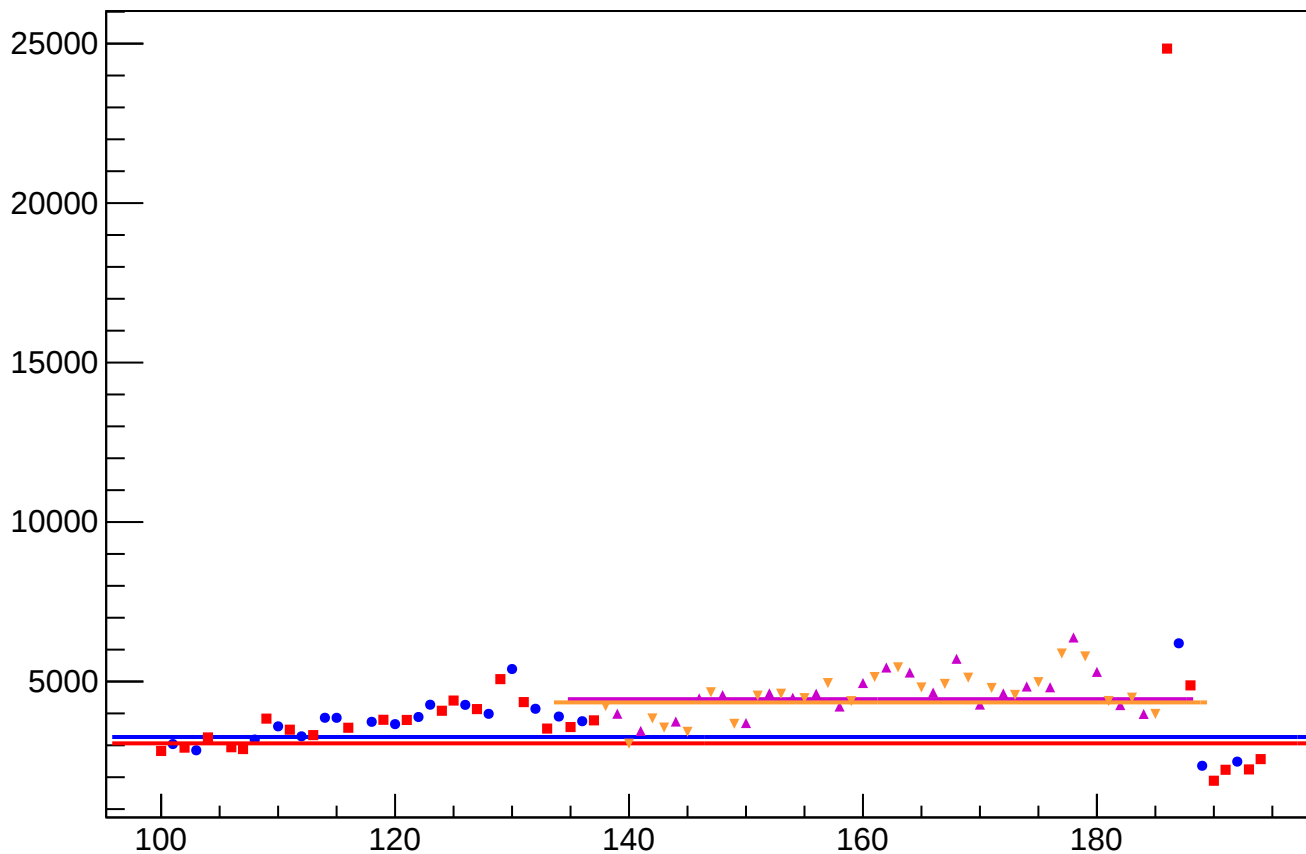
Right: 1.178 $\pm$ 0.759 χ^2/NDF : 50.6/44

In: 1.086 $\pm$ 0.796 χ^2/NDF :55.3/42

Out: -0.351 $\pm$ 0.714 χ^2/NDF :48.2/49

All: 0.290 $\pm$ 0.531 χ^2/NDF : 105.2/92

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3260.231 $\pm$ 0.835 χ^2/NDF : 749656.2/19

Left Out: 4345.381 $\pm$ 0.728 χ^2/NDF : 1000636.1/24

Right Out: 3061.182 $\pm$ 0.701 χ^2/NDF : 1928006.4/24

Left In: 4446.181 $\pm$ 0.762 χ^2/NDF : 702797.6/22

Left: 4393.504 $\pm$ 0.526 χ^2/NDF : 1712588.4/47

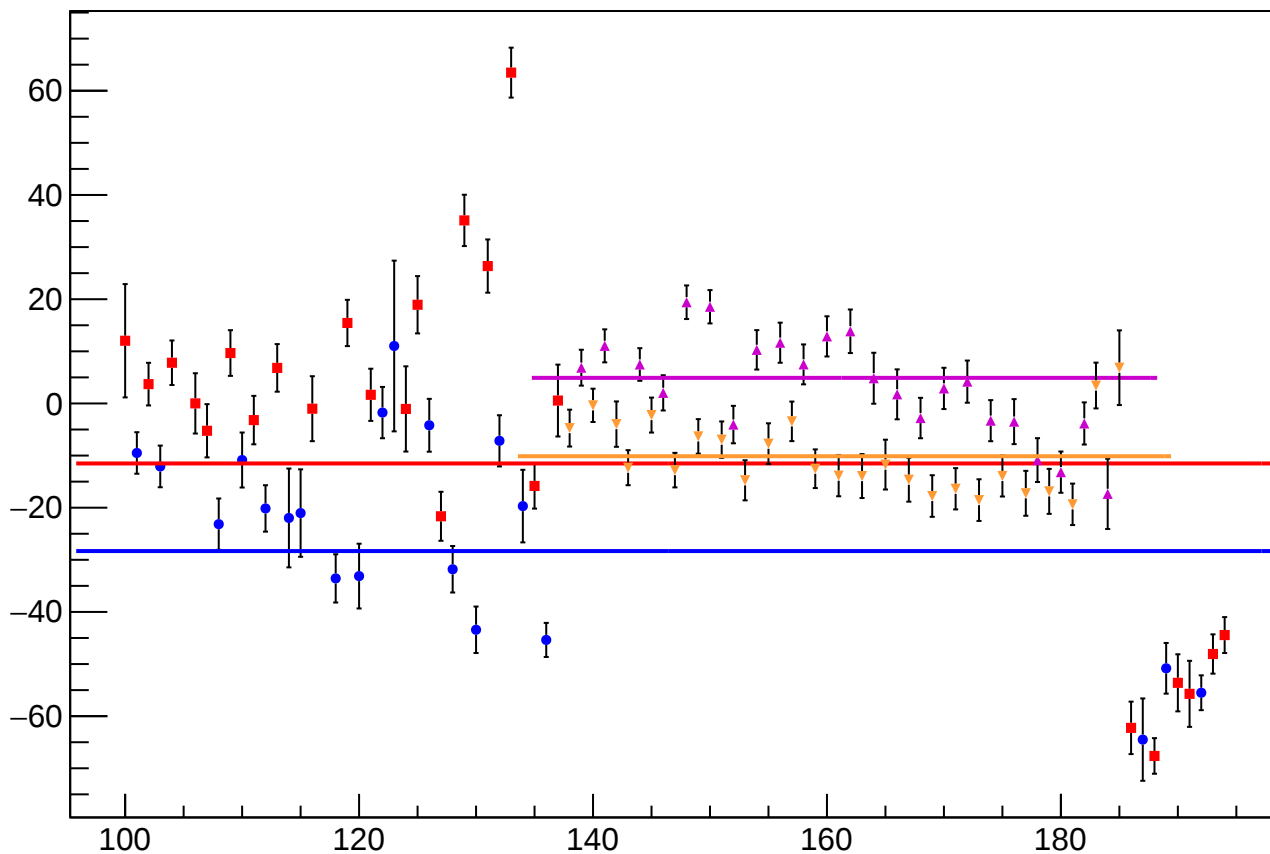
Right: 3143.563 $\pm$ 0.537 χ^2/NDF : 2711002.1/44

In: 3907.335 $\pm$ 0.563 χ^2/NDF : 2554213.3/42

Out: 3679.386 $\pm$ 0.505 χ^2/NDF : 4542753.9/49

All: 3781.115 $\pm$ 0.376 χ^2/NDF : 7187876.9/92

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -28.322 ± 1.092 χ^2/NDF : 282.9/19

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -11.513 ± 0.961 χ^2/NDF : 1229.3/24

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

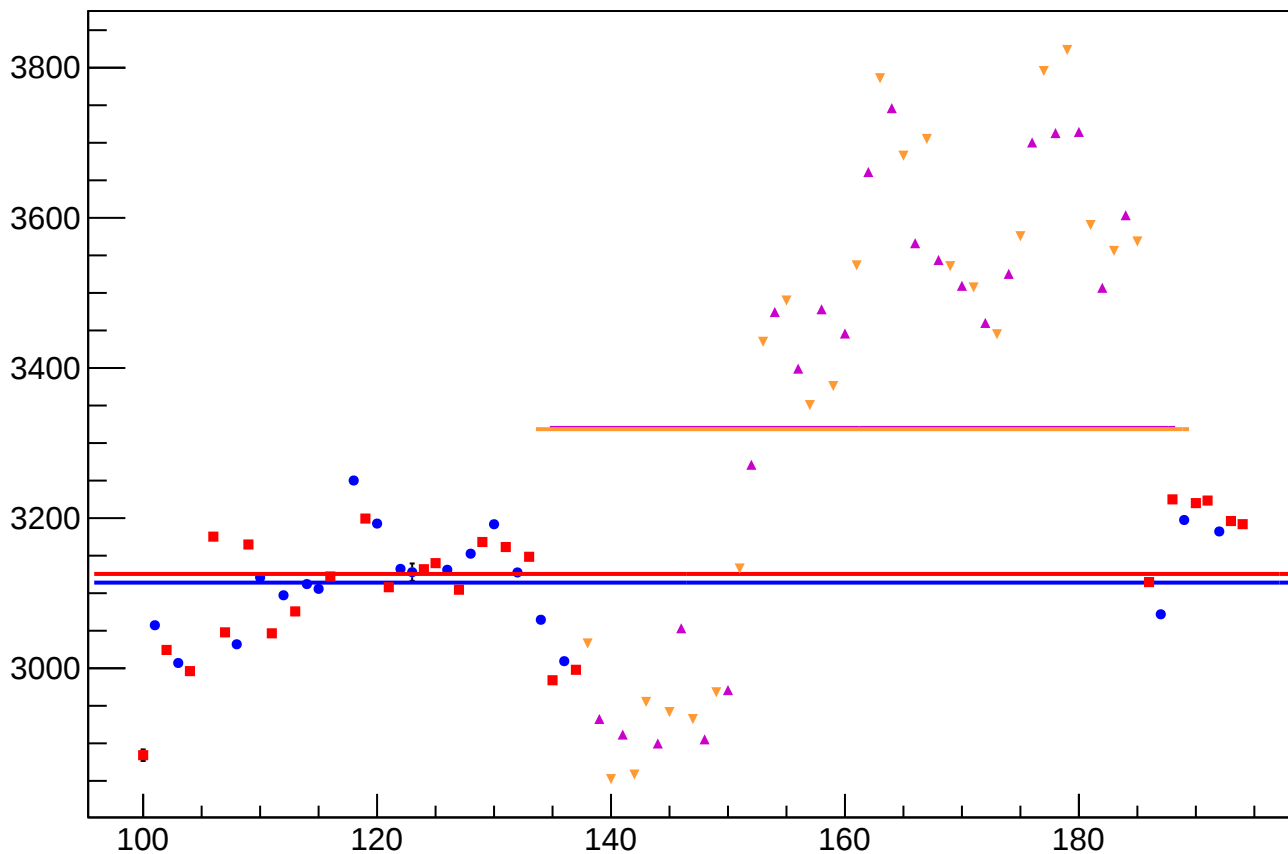
Right: -18.854 ± 0.721 χ^2/NDF : 1645.7/44

In: -6.648 ± 0.644 χ^2/NDF : 1015.4/42

Out: -10.672 ± 0.604 χ^2/NDF : 1298.5/49

All: -8.790 ± 0.440 χ^2/NDF : 2334.6/92

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.103 $\pm$ 0.772 χ^2 /NDF: 8934.4/19

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3125.659 $\pm$ 0.680 χ^2 /NDF: 13588.7/24

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

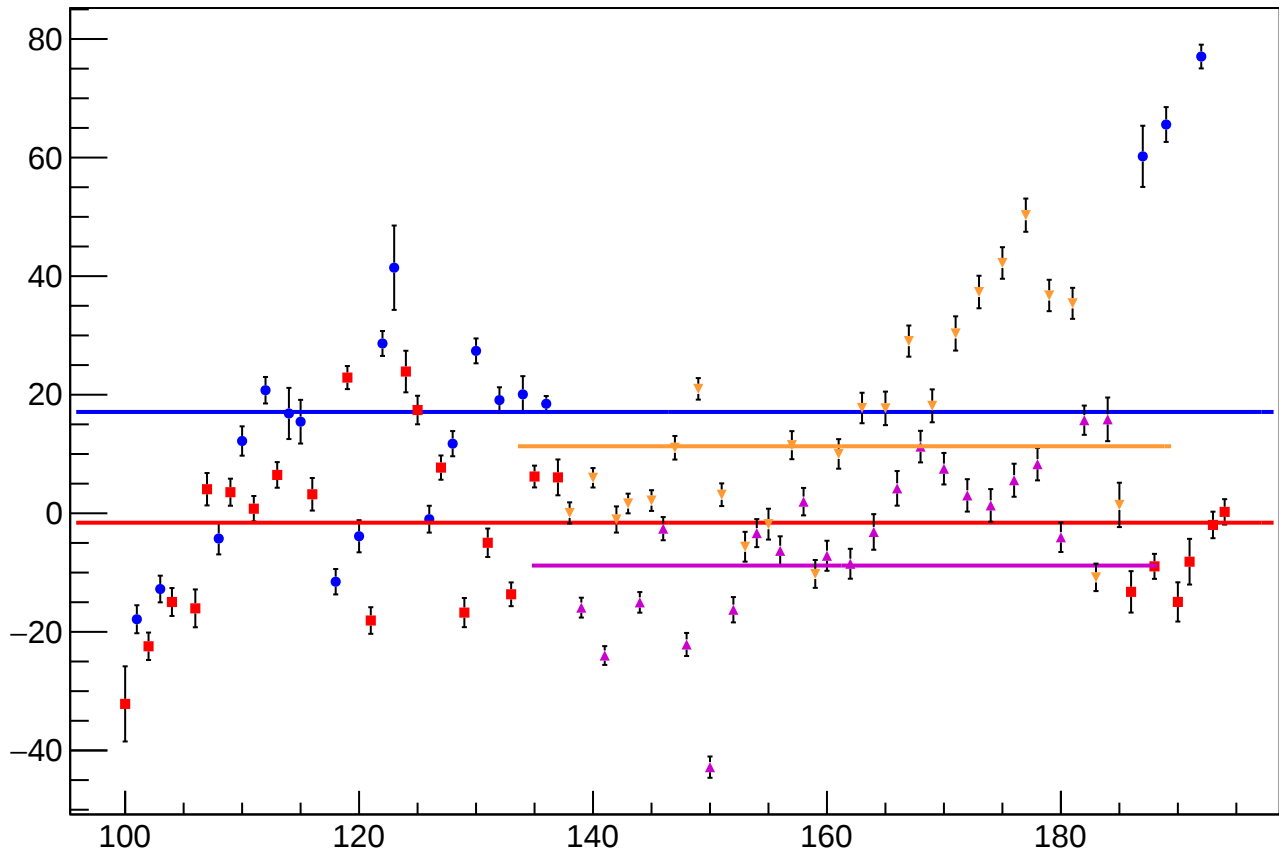
Right: 3120.612 $\pm$ 0.510 χ^2 /NDF: 22649.3/44

In: 3248.498 $\pm$ 0.455 χ^2 /NDF:343056.4/42

Out: 3242.467 $\pm$ 0.427 χ^2 /NDF:400053.6/49

All: 3245.288 $\pm$ 0.311 χ^2 /NDF: 743203.5/92

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.093 ± 0.530 χ^2/NDF : 2081.9/19

Left Out: 11.305 ± 0.454 χ^2/NDF : 1144.3/24

Right Out: -1.585 ± 0.487 χ^2/NDF : 677.0/24

Left In: -8.815 ± 0.475 χ^2/NDF : 942.2/22

Left: 1.711 ± 0.328 χ^2/NDF : 3023.6/47

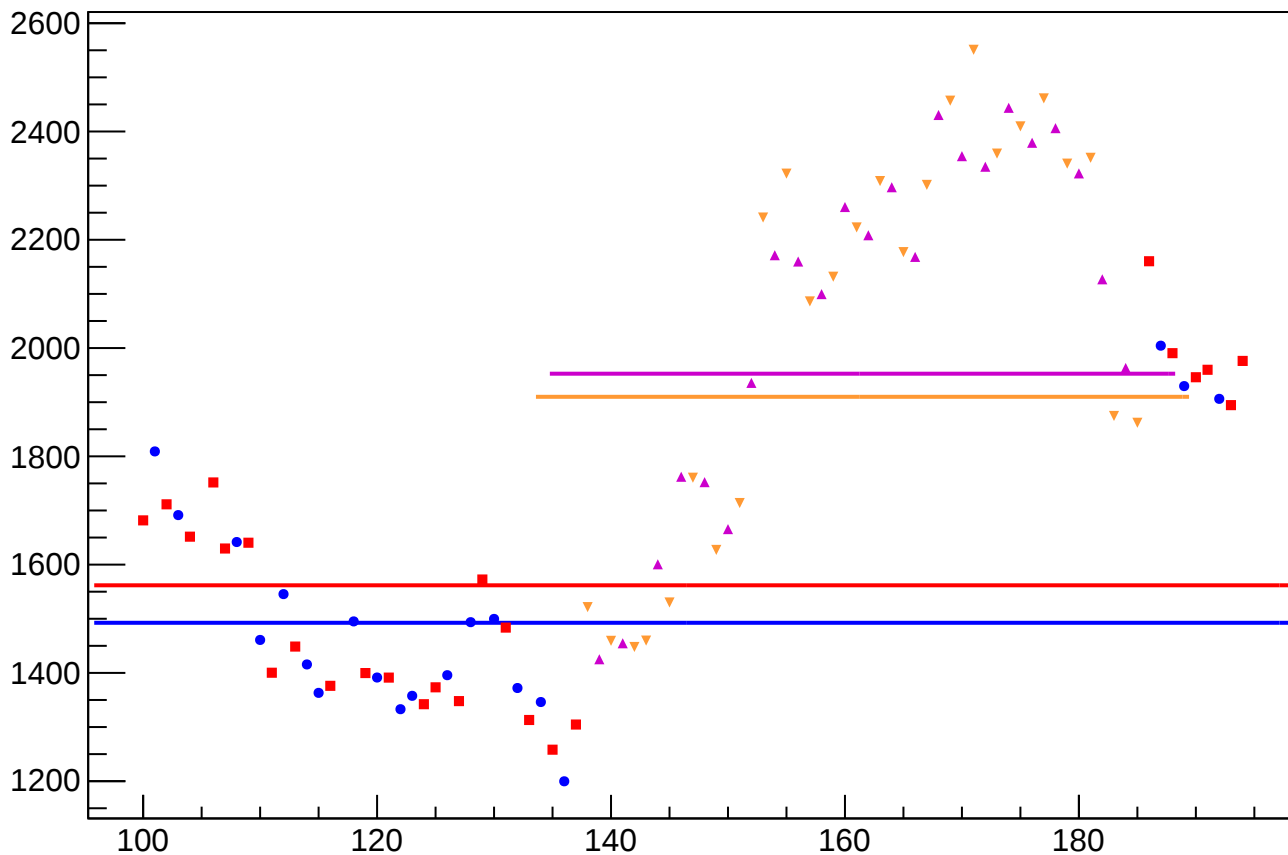
Right: 6.970 ± 0.359 χ^2/NDF : 3432.3/44

In: 2.738 ± 0.354 χ^2/NDF : 4348.6/42

Out: 5.315 ± 0.332 χ^2/NDF : 2196.1/49

All: 4.108 ± 0.242 χ^2/NDF : 6572.9/92

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1492.568 $\pm$ 0.375 χ^2 /NDF: 341412.2/19

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1561.805 $\pm$ 0.344 χ^2 /NDF: 526976.3/24

Left In: 1952.637 $\pm$ 0.336 χ^2 /NDF:1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2 /NDF: 2473233.3/47

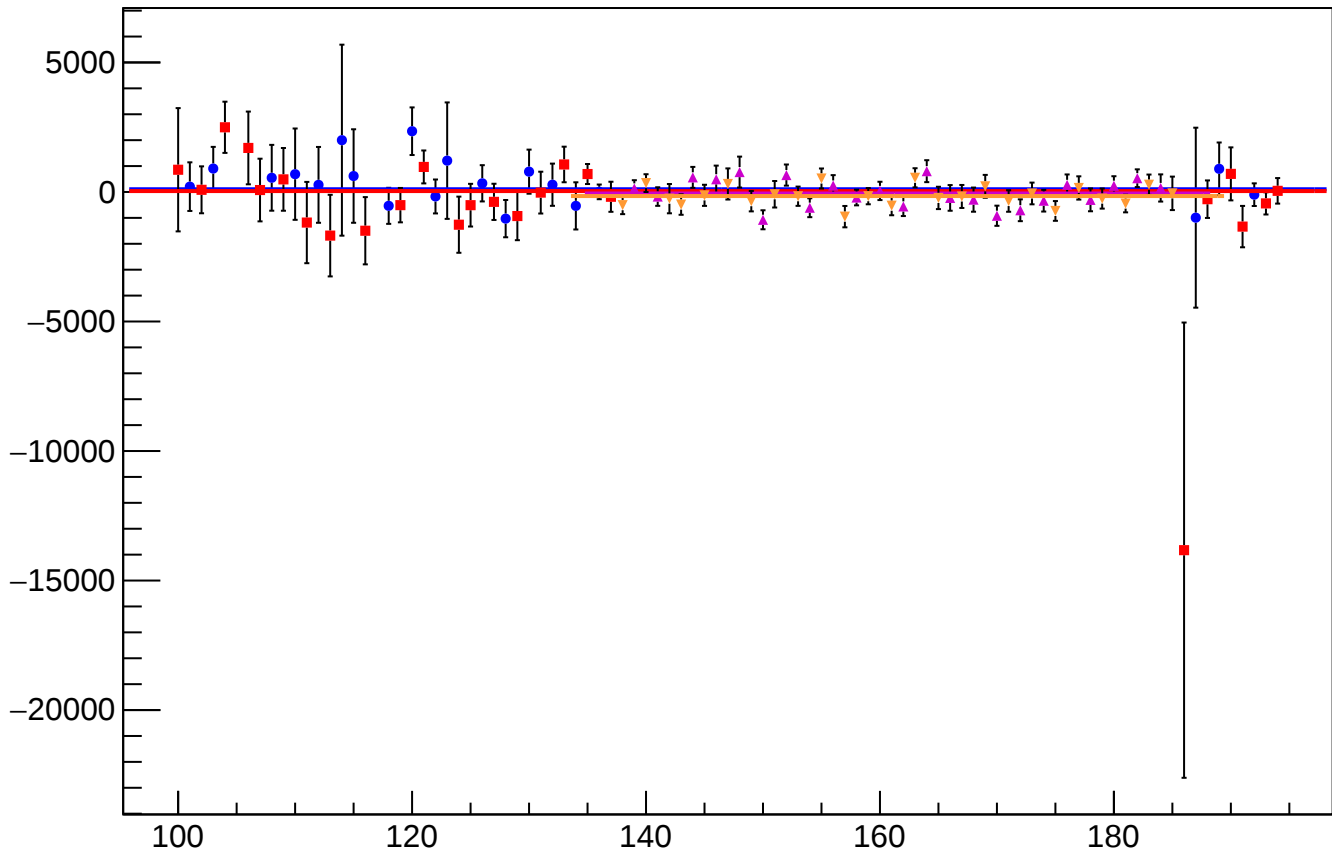
Right: 1530.092 $\pm$ 0.254 χ^2 /NDF: 886894.2/44

In: 1747.485 $\pm$ 0.250 χ^2 /NDF:2242096.9/42

Out: 1748.186 $\pm$ 0.235 χ^2 /NDF:2473334.8/49

All: 1747.858 $\pm$ 0.171 χ^2 /NDF: 4715435.9/92

asym_sam1_mean vs Slug, Sign Corrected



Right In: 105.464+/-164.531 χ^2/NDF : 13.6/19

Left Out: -157.242+/-80.796 χ^2/NDF : 22.0/24

Right Out: 34.866+/-151.955 χ^2/NDF : 29.7/24

Left In: -58.934+/-82.584 χ^2/NDF : 38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

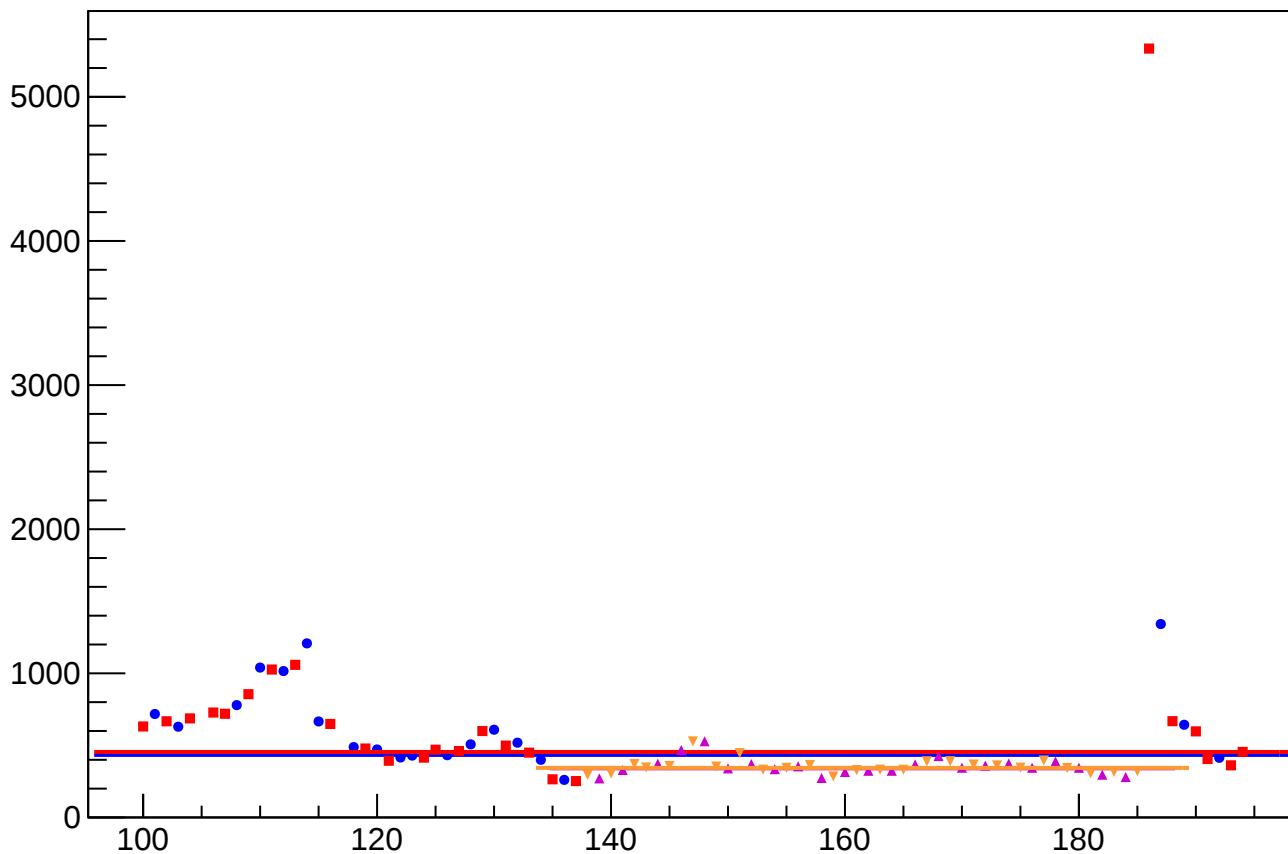
Right: 67.364+/-111.630 χ^2/NDF : 43.4/44

In: -25.850+/-73.808 χ^2/NDF : 52.9/42

Out: -114.901+/-71.339 χ^2/NDF : 53.0/49

All: -71.890+/-51.295 χ^2/NDF : 106.7/92

asym_sam1_rms vs Slug, Sign Corrected



Right In: 434.055+/-0.116 χ^2/NDF : 2234223.9/19

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 454.438+/-0.107 χ^2/NDF : 2963779.8/24

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

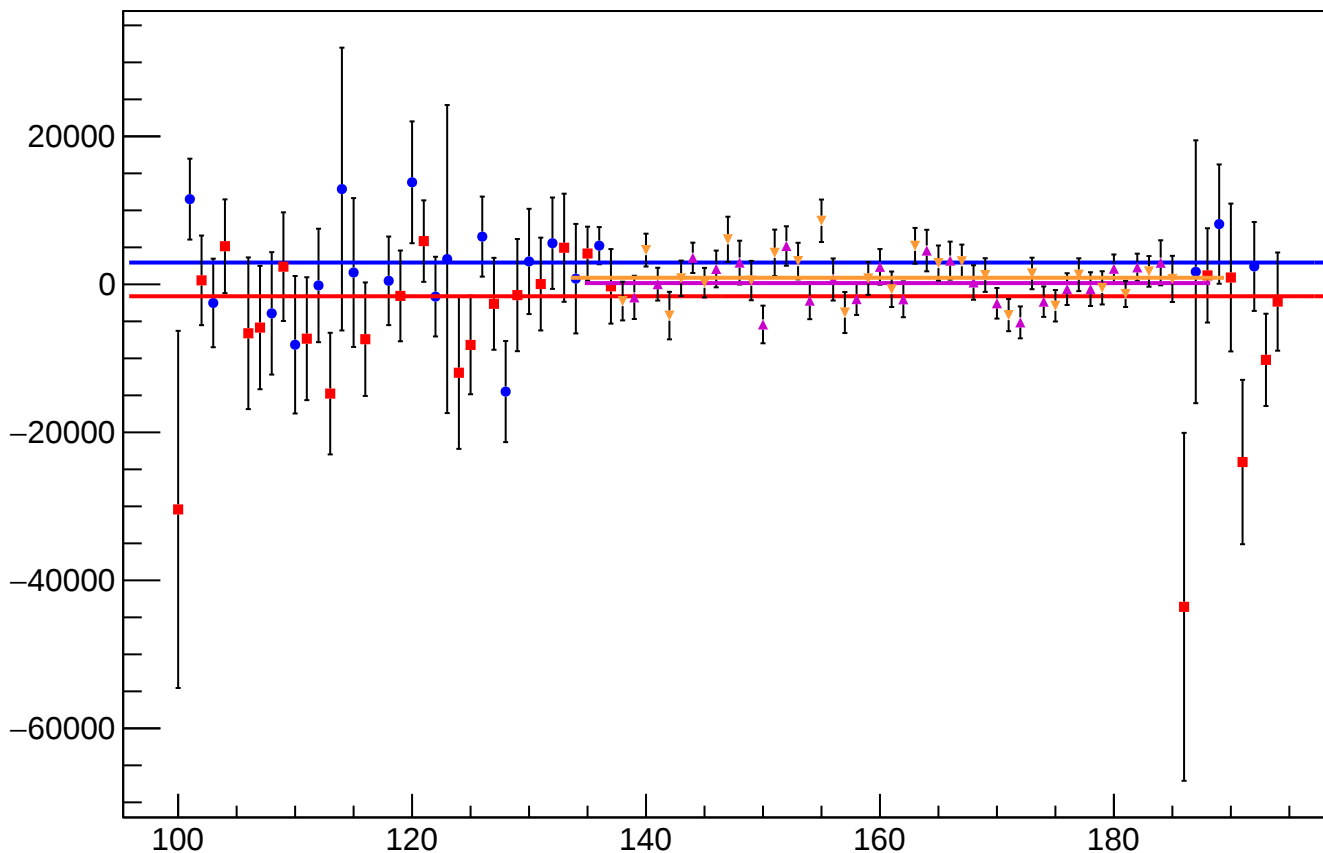
Right: 445.055+/-0.079 χ^2/NDF : 5214568.4/44

In: 359.628+/-0.052 χ^2/NDF : 3471270.3/42

Out: 368.190+/-0.050 χ^2/NDF : 4329675.1/49

All: 364.055+/-0.036 χ^2/NDF : 7814861.3/92

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2948.689 $\pm$ 1384.894 χ^2 /NDF: 17.0/19

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -1607.662 $\pm$ 1373.498 χ^2 /NDF: 23.8/24

Left In: 172.391 $\pm$ 488.067 χ^2 /NDF:33.2/22

Left: 542.448 $\pm$ 339.760 χ^2 /NDF: 72.3/47

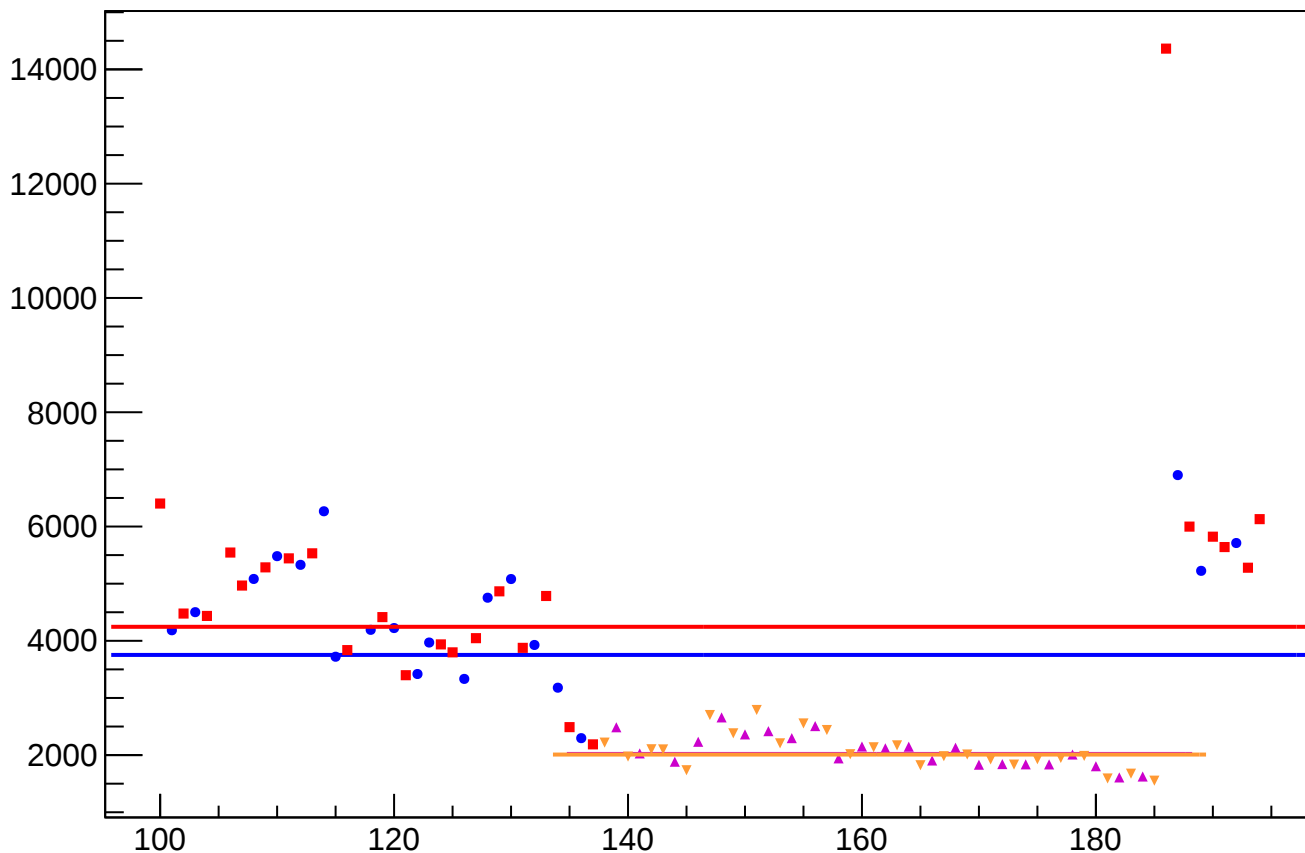
Right: 651.691 $\pm$ 975.214 χ^2 /NDF: 46.3/44

In: 479.116 $\pm$ 460.318 χ^2 /NDF:53.7/42

Out: 625.285 $\pm$ 447.445 χ^2 /NDF:64.7/49

All: 554.273 $\pm$ 320.846 χ^2 /NDF: 118.5/92

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3753.155+/-0.979 χ^2/NDF : 1461869.0/19

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4245.291+/-0.971 χ^2/NDF : 1918426.4/24

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

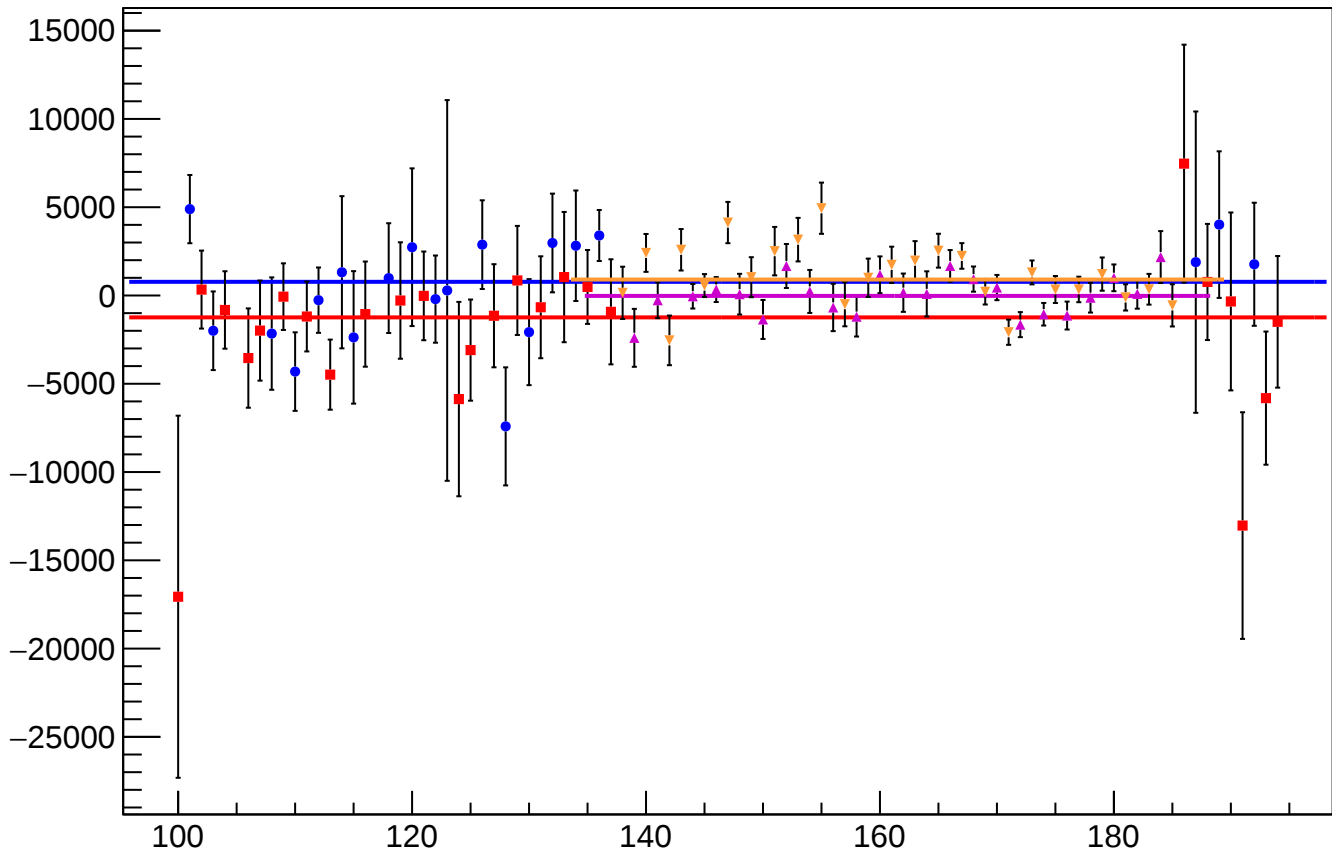
Right: 4001.256+/-0.690 χ^2/NDF : 3507619.9/44

In: 2211.803+/-0.325 χ^2/NDF : 4820475.7/42

Out: 2246.894+/-0.316 χ^2/NDF : 7364947.3/49

All: 2229.846+/-0.227 χ^2/NDF : 12191398.8/95

asym_sam3_mean vs Slug, Sign Corrected



Right In: 773.939+/-604.720 χ^2/NDF : 26.2/19

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1240.214+/-571.822 χ^2/NDF : 16.7/24

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

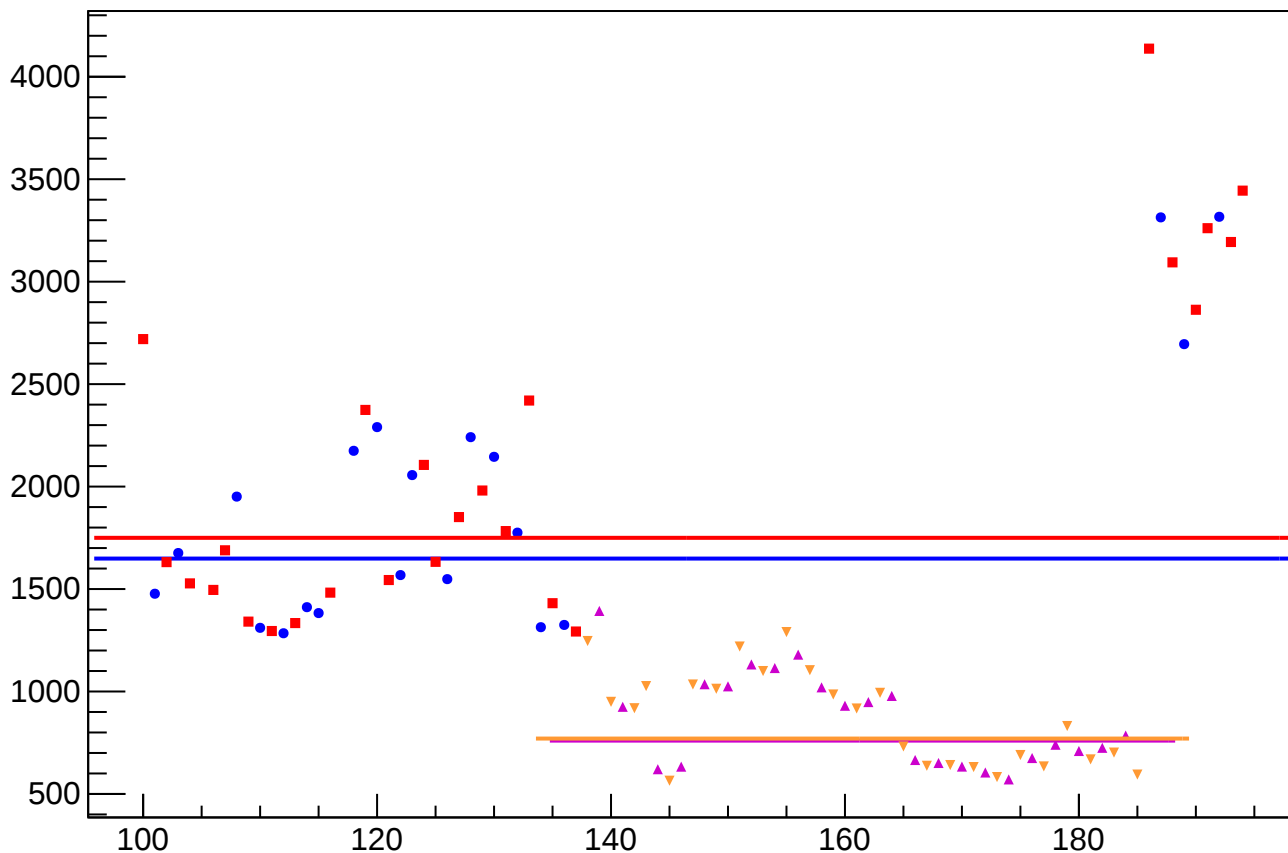
Right: -289.412+/-415.483 χ^2/NDF : 48.7/44

In: 46.847+/-179.643 χ^2/NDF : 56.0/42

Out: 697.412+/-176.749 χ^2/NDF : 92.9/49

All: 377.413+/-125.991 χ^2/NDF : 155.6/92

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1648.699 $\pm$ 0.428 χ^2 /NDF: 1186745.7/19

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1749.940 $\pm$ 0.404 χ^2 /NDF: 2134820.8/24

Left In: 760.352 $\pm$ 0.133 χ^2 /NDF: 1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2 /NDF: 4277246.5/47

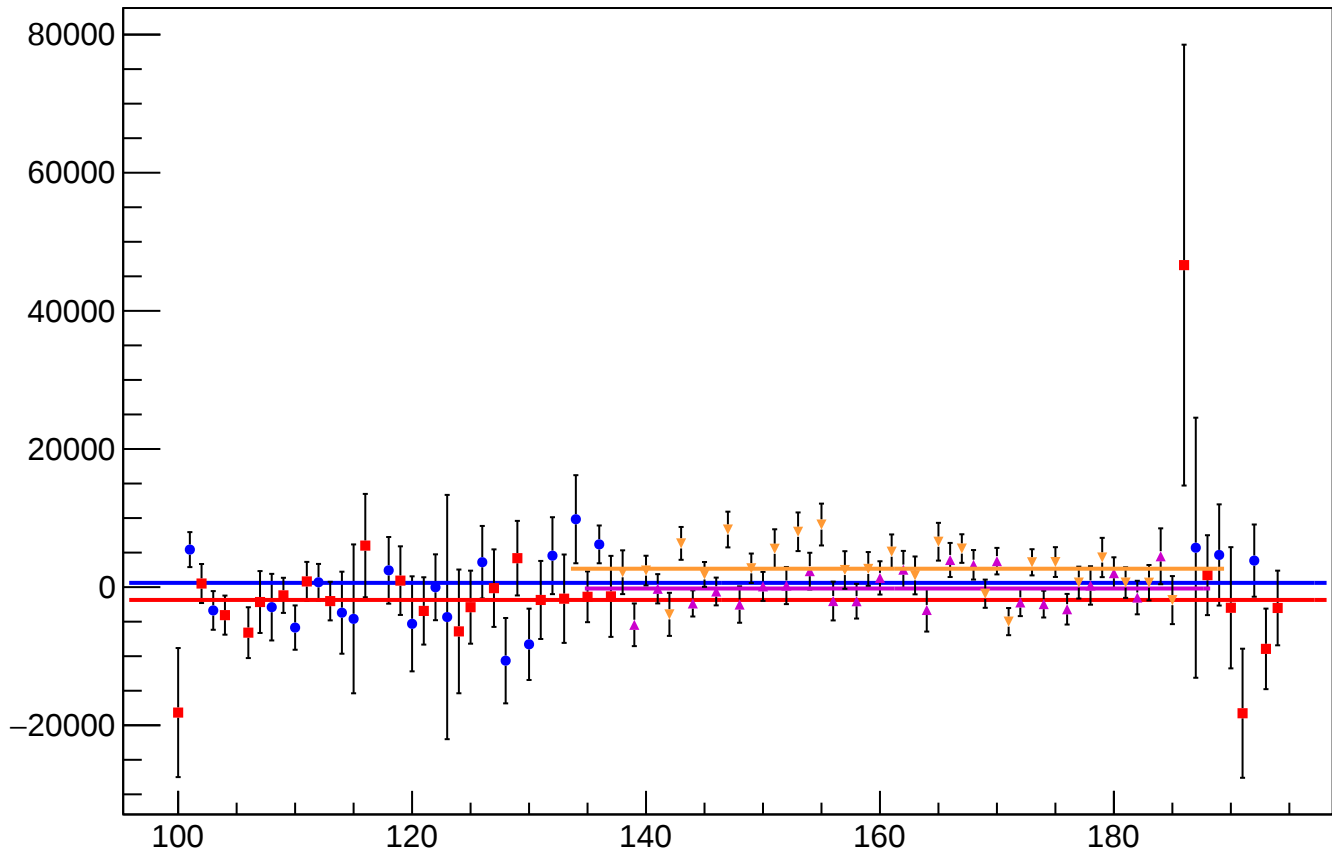
Right: 1702.148 $\pm$ 0.294 χ^2 /NDF: 3351161.6/44

In: 838.748 $\pm$ 0.127 χ^2 /NDF: 7108661.9/42

Out: 863.914 $\pm$ 0.125 χ^2 /NDF: 9731470.0/49

All: 851.536 $\pm$ 0.089 χ^2 /NDF: 16860075.5/92

asym_sam4_mean vs Slug, Sign Corrected



Right In: 617.743 ± 970.399 χ^2/NDF : 26.1/19

Left Out: 2665.587 ± 479.773 χ^2/NDF : 49.2/24

Right Out: -1854.796 ± 881.915 χ^2/NDF : 17.5/24

Left In: -199.371 ± 492.082 χ^2/NDF : 25.8/22

Left: 1269.388 ± 343.520 χ^2/NDF : 92.4/47

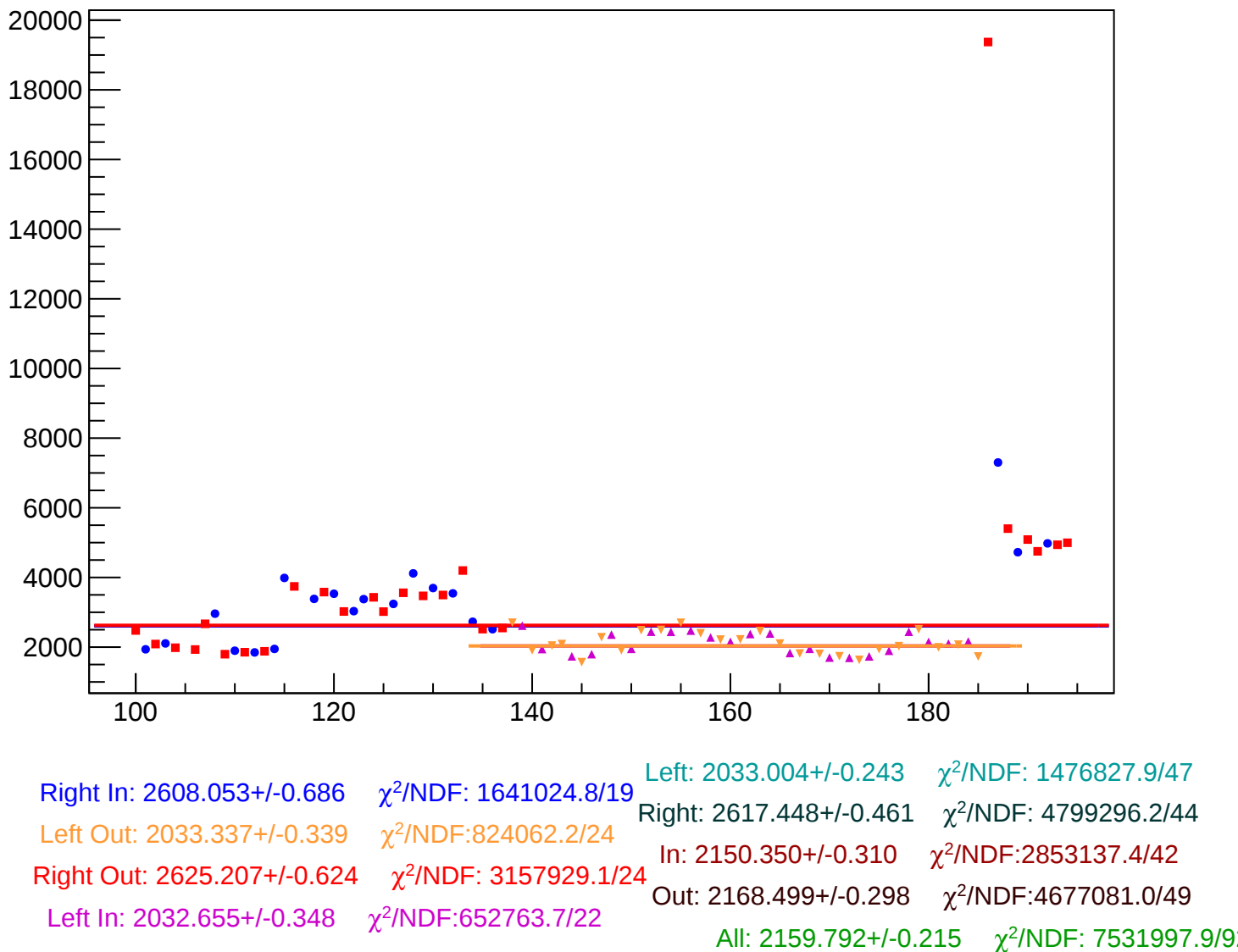
Right: -736.369 ± 652.653 χ^2/NDF : 47.2/44

In: -32.234 ± 438.879 χ^2/NDF : 52.5/42

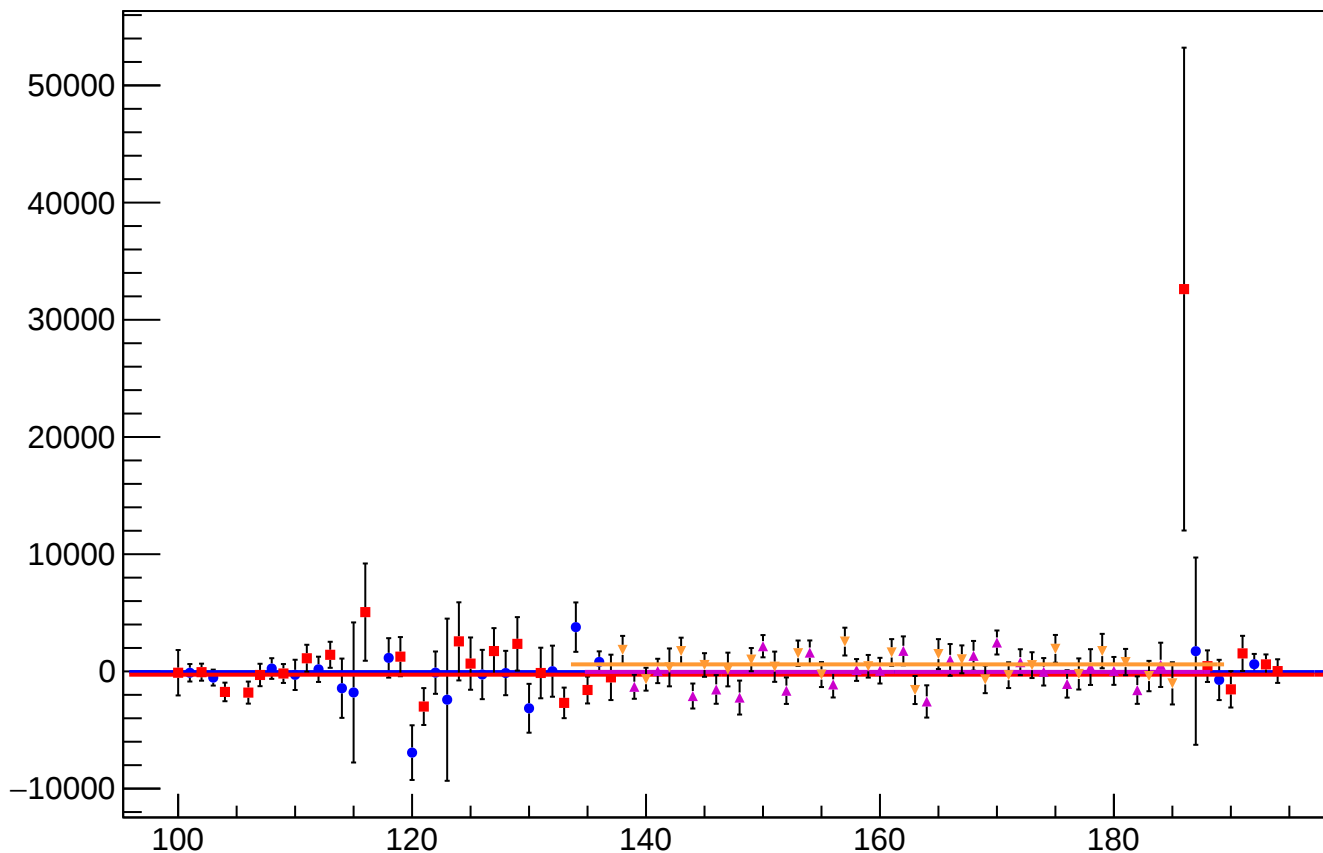
Out: 1633.289 ± 421.446 χ^2/NDF : 87.0/49

All: 834.264 ± 303.984 χ^2/NDF : 146.9/92

asym_sam4_rms vs Slug, Sign Corrected



asym_sam5_mean vs Slug, Sign Corrected



Right In: -57.823 ± 290.918 χ^2/NDF : 17.6/19

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -279.002 ± 248.065 χ^2/NDF : 29.6/24

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

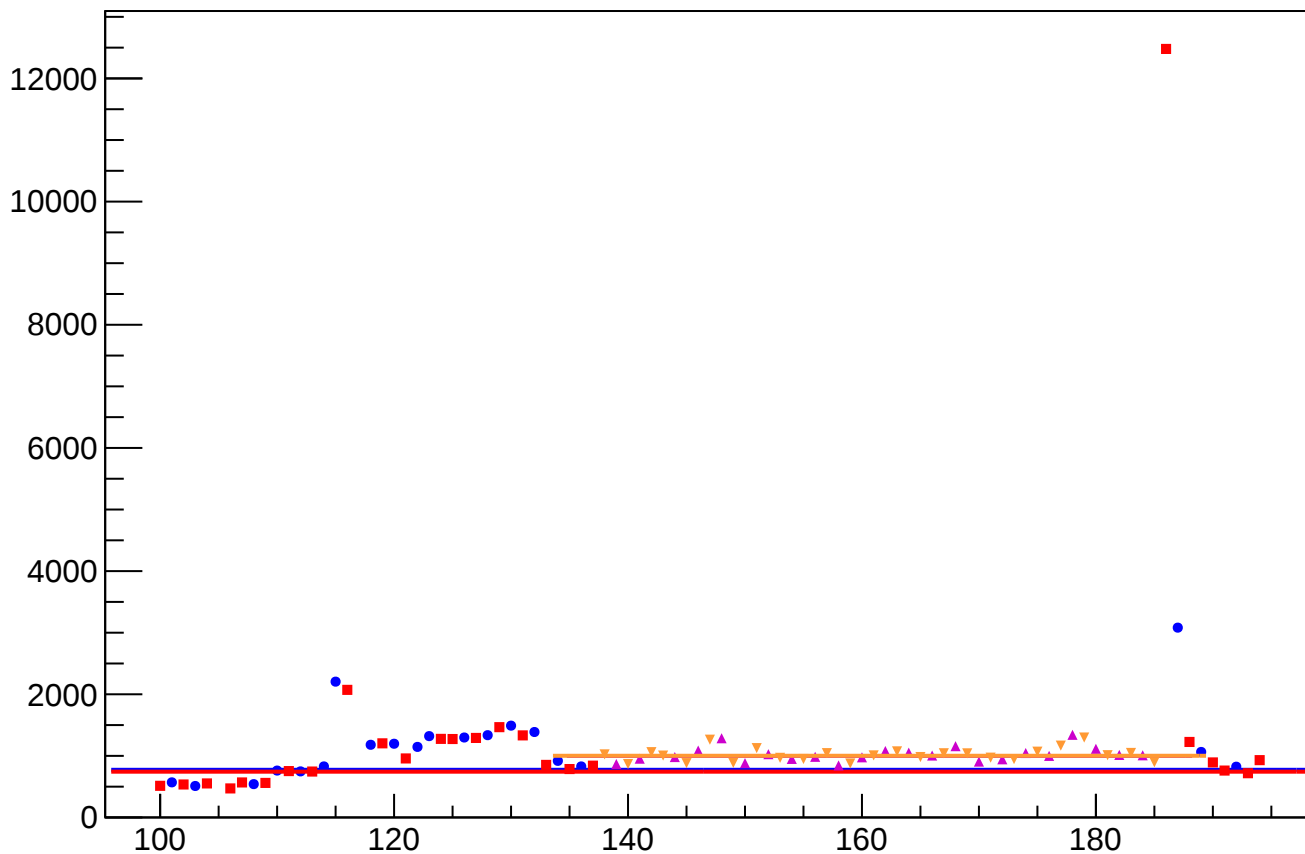
Right: -185.888 ± 188.759 χ^2/NDF : 47.6/44

In: -48.172 ± 185.502 χ^2/NDF : 54.0/42

Out: 184.317 ± 170.590 χ^2/NDF : 54.7/49

All: 77.792 ± 125.566 χ^2/NDF : 109.6/92

asym_sam5_rms vs Slug, Sign Corrected



Right In: 773.888 $\pm$ 0.206 χ^2 /NDF: 1927384.1/19

Left Out: 1001.472 $\pm$ 0.166 χ^2 /NDF: 370299.3/24

Right Out: 743.256 $\pm$ 0.175 χ^2 /NDF: 2726816.3/24

Left In: 998.050 $\pm$ 0.170 χ^2 /NDF: 404656.2/22

Left: 999.803 $\pm$ 0.119 χ^2 /NDF: 775162.3/47

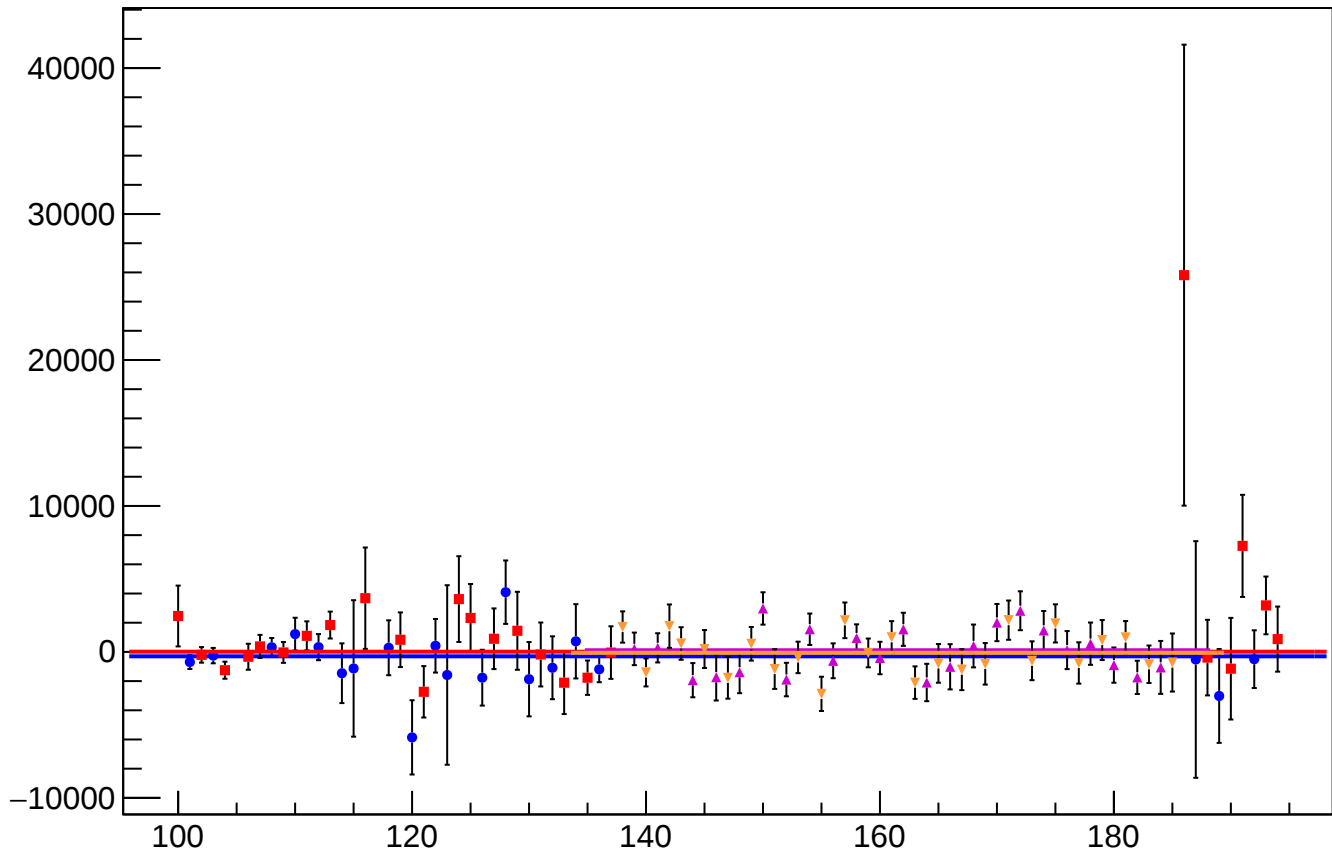
Right: 756.152 $\pm$ 0.133 χ^2 /NDF: 4667039.5/44

In: 906.909 $\pm$ 0.131 χ^2 /NDF: 3036680.9/42

Out: 879.360 $\pm$ 0.121 χ^2 /NDF: 4239341.5/49

All: 891.983 $\pm$ 0.089 χ^2 /NDF: 7299921.2/92

asym_sam6_mean vs Slug, Sign Corrected



Right In: -303.038+/-247.835 χ^2/NDF : 16.5/19

Left Out: -59.827+/-246.503 χ^2/NDF :31.0/24

Right Out: 14.753+/-240.628 χ^2/NDF : 31.5/24

Left In: 112.398+/-255.409 χ^2/NDF :34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

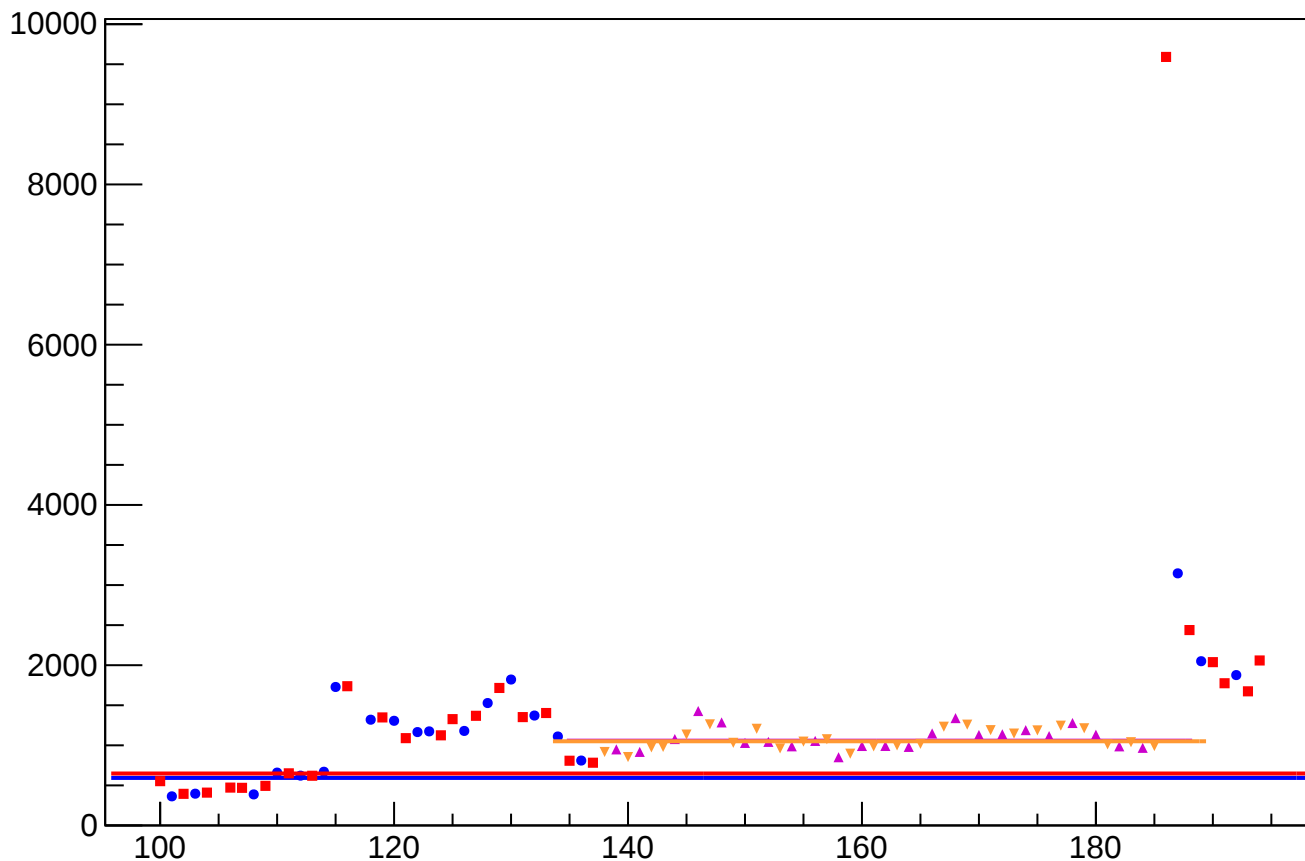
Right: -139.455+/-172.641 χ^2/NDF : 48.9/44

In: -101.572+/-177.863 χ^2/NDF :52.7/42

Out: -21.638+/-172.189 χ^2/NDF :62.6/49

All: -60.310+/-123.714 χ^2/NDF : 115.4/92

asym_sam6_rms vs Slug, Sign Corrected



Right In: 593.253+/-0.175 χ^2/NDF : 4695648.3/19

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 648.341+/-0.170 χ^2/NDF : 6411167.0/24

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

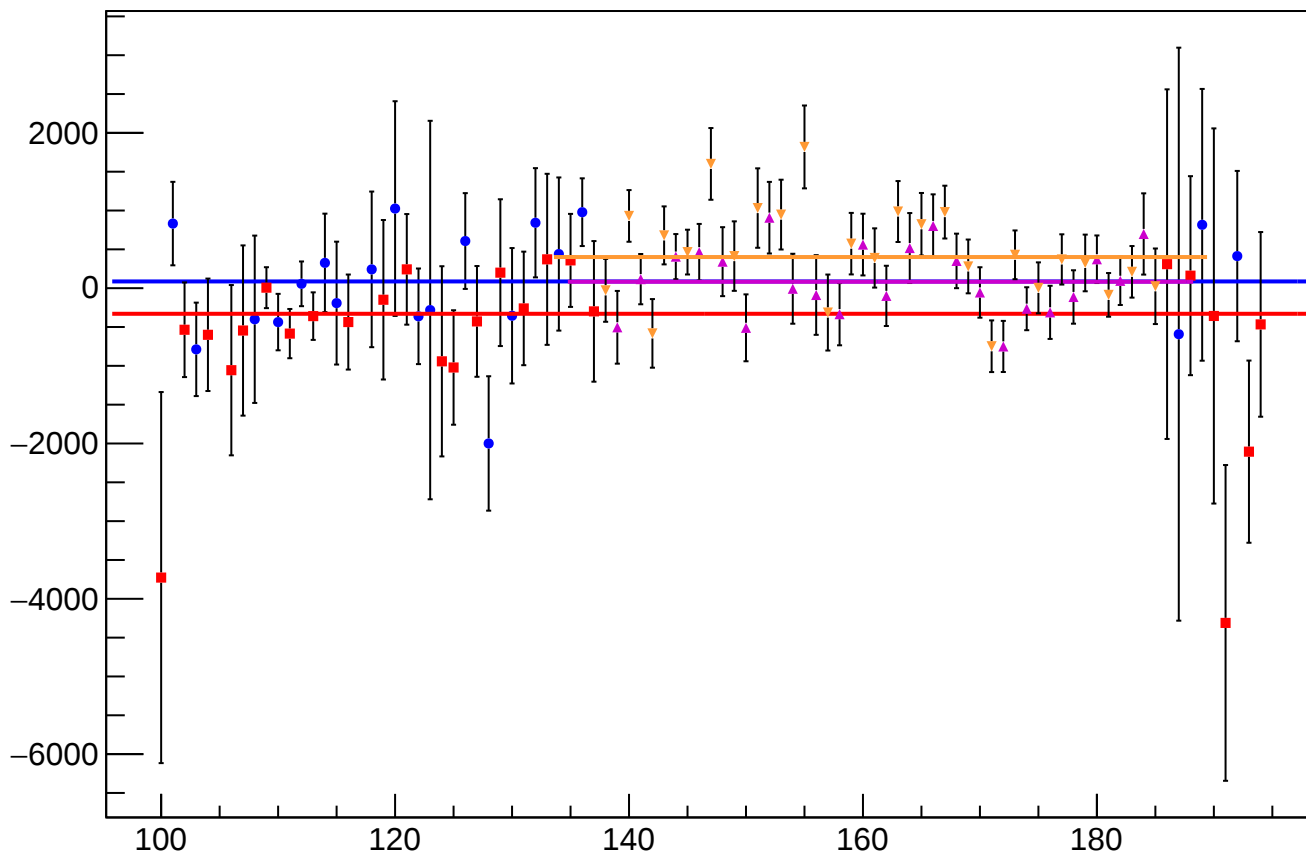
Right: 621.609+/-0.122 χ^2/NDF : 11157680.8/44

In: 818.680+/-0.126 χ^2/NDF : 8636303.2/42

Out: 844.644+/-0.122 χ^2/NDF : 9622172.9/49

All: 832.083+/-0.087 χ^2/NDF : 18280475.8/92

asym_sam7_mean vs Slug, Sign Corrected



Right In: 86.851 $\pm$ 141.493 χ^2 /NDF: 20.2/19

Left Out: 400.988 $\pm$ 74.546 χ^2 /NDF: 52.1/24

Right Out: -329.727 $\pm$ 127.005 χ^2 /NDF: 15.3/24

Left In: 82.890 $\pm$ 76.904 χ^2 /NDF: 29.0/22

Left: 246.889 $\pm$ 53.526 χ^2 /NDF: 89.9/47

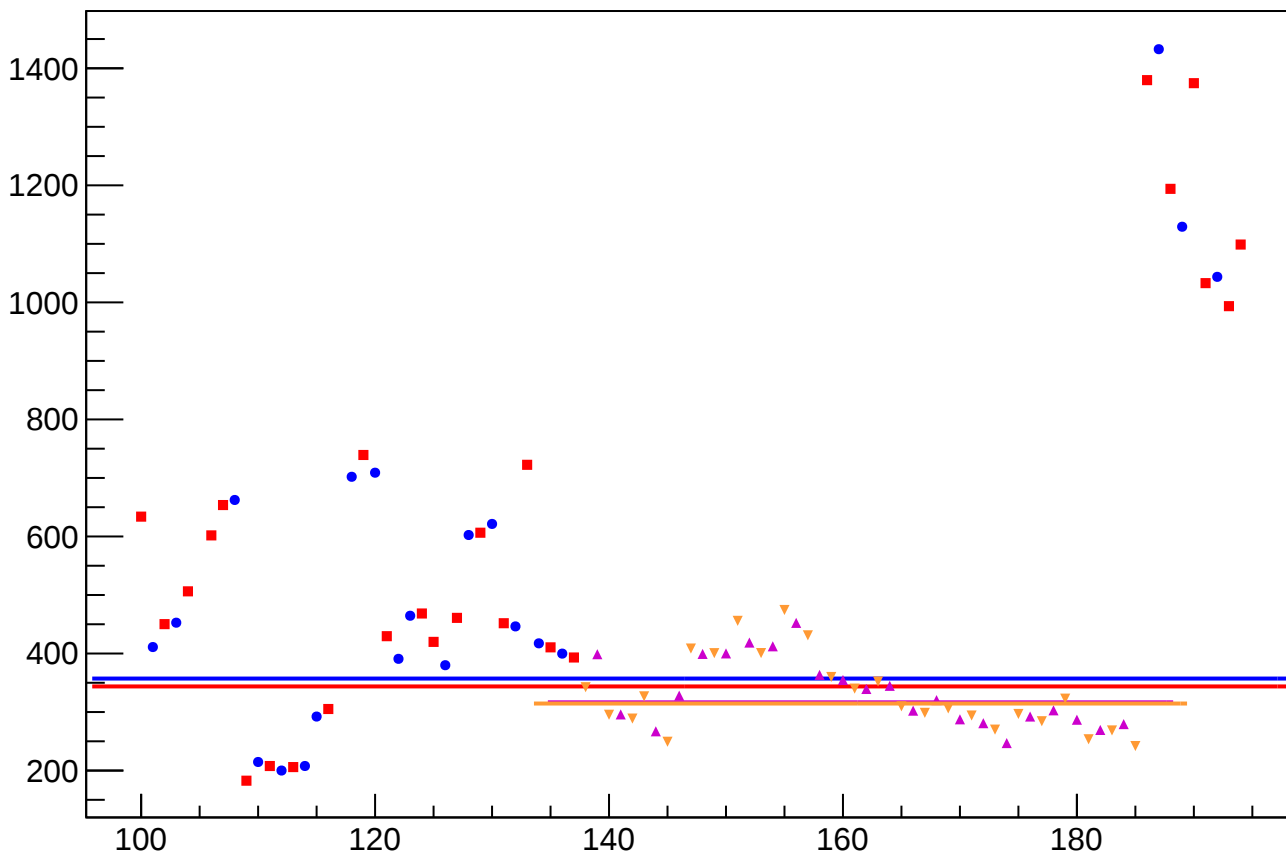
Right: -143.851 $\pm$ 94.514 χ^2 /NDF: 40.3/44

In: 83.793 $\pm$ 67.569 χ^2 /NDF: 49.2/42

Out: 213.750 $\pm$ 64.290 χ^2 /NDF: 92.0/49

All: 152.001 $\pm$ 46.576 χ^2 /NDF: 143.1/92

asym_sam7_rms vs Slug, Sign Corrected



Right In: 357.217 $\pm$ 0.100 χ^2/NDF : 3383674.0/19

Left Out: 314.538 $\pm$ 0.053 χ^2/NDF : 1112445.6/24

Right Out: 343.751 $\pm$ 0.090 χ^2/NDF : 6196050.8/24

Left In: 316.647 $\pm$ 0.054 χ^2/NDF : 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2/NDF : 2034094.8/47

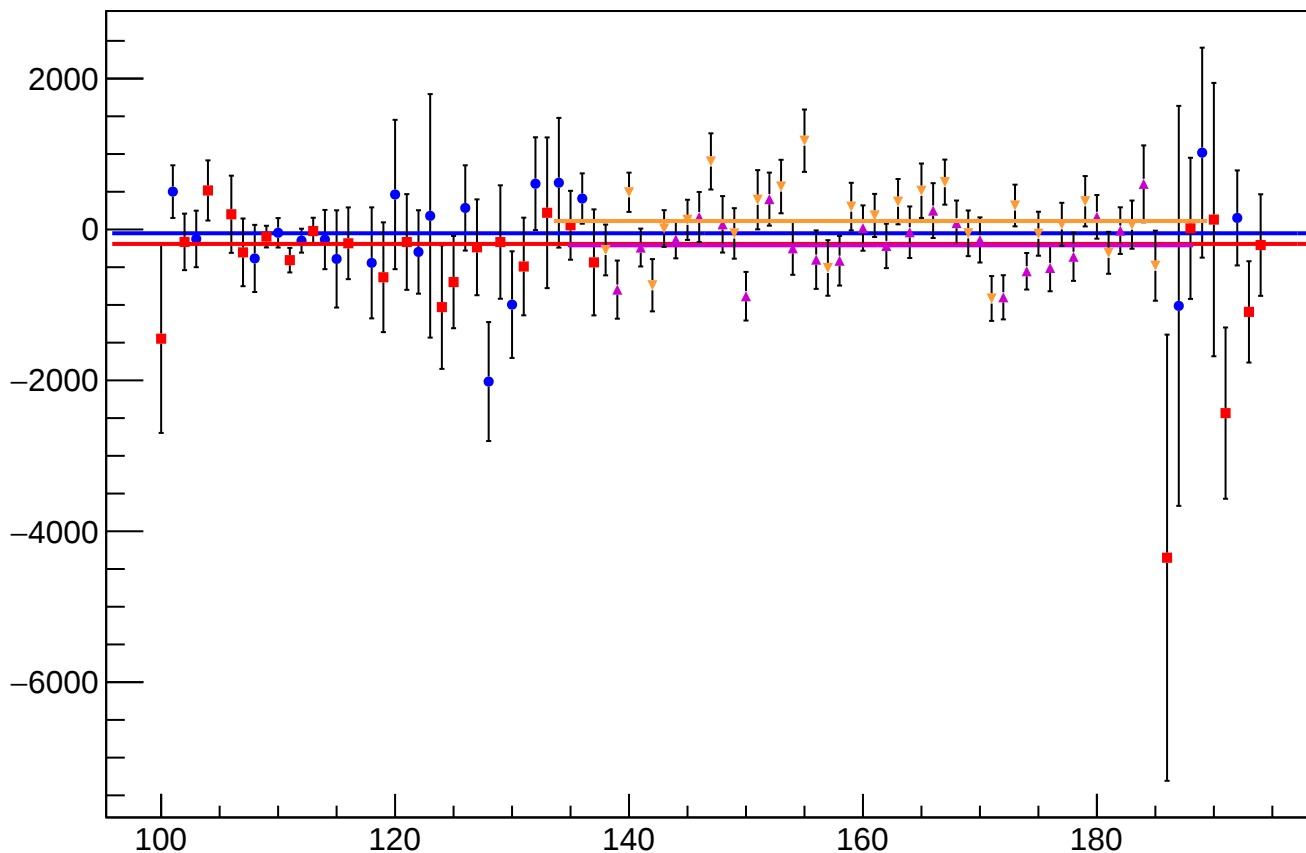
Right: 349.760 $\pm$ 0.067 χ^2/NDF : 9589756.2/44

In: 325.899 $\pm$ 0.048 χ^2/NDF : 4431478.6/42

Out: 322.024 $\pm$ 0.045 χ^2/NDF : 7387196.7/49

All: 323.865 $\pm$ 0.033 χ^2/NDF : 11822127.4/92

asym_sam8_mean vs Slug, Sign Corrected



Right In: -50.220 ± 89.531 χ^2/NDF : 17.4/19

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -191.500 ± 75.471 χ^2/NDF : 18.6/24

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

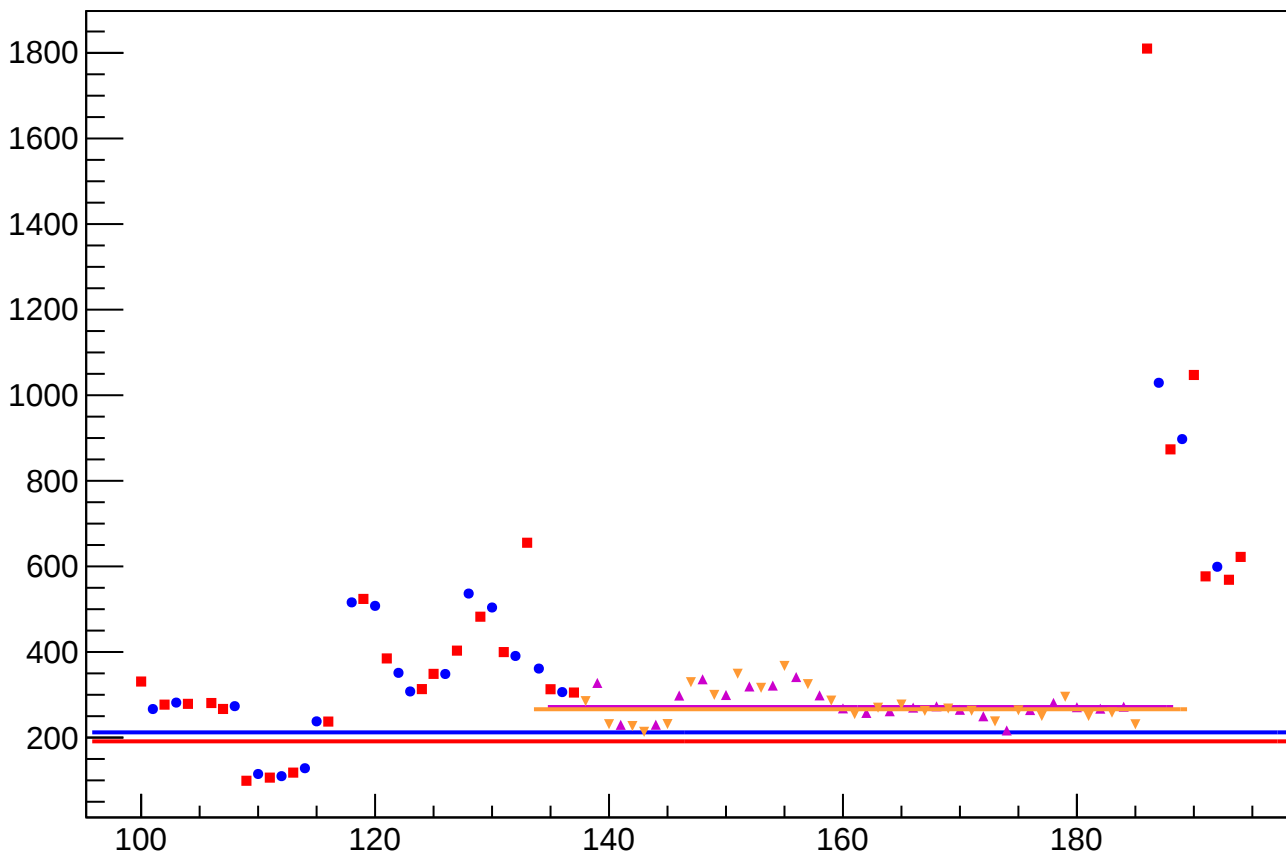
Right: -132.812 ± 57.704 χ^2/NDF : 37.5/44

In: -154.580 ± 52.869 χ^2/NDF : 48.7/42

Out: -11.660 ± 48.202 χ^2/NDF : 77.4/49

All: -76.534 ± 35.620 χ^2/NDF : 130.0/92

asym_sam8_rms vs Slug, Sign Corrected



Right In: 212.178+/-0.063 χ^2/NDF : 4846654.5/19

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 191.175+/-0.053 χ^2/NDF : 8006473.6/24

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

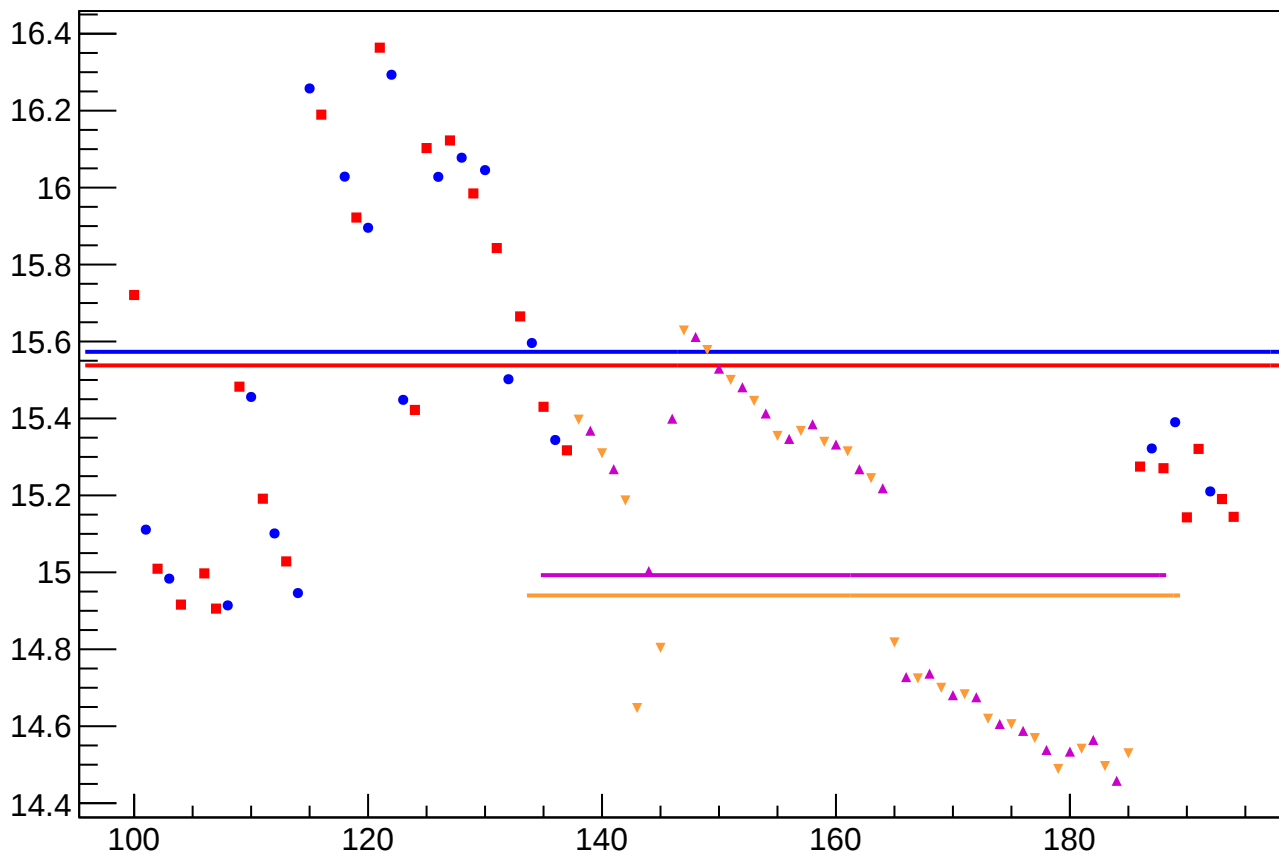
Right: 199.900+/-0.041 χ^2/NDF : 12917472.0/44

In: 250.759+/-0.037 χ^2/NDF : 5938757.8/42

Out: 235.600+/-0.034 χ^2/NDF : 9826539.1/49

All: 242.481+/-0.025 χ^2/NDF : 15855081.6/92

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.573+/-0.000 χ^2/NDF : 6500462990.6/19

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.538+/-0.000 χ^2/NDF : 7560637237.3/24

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

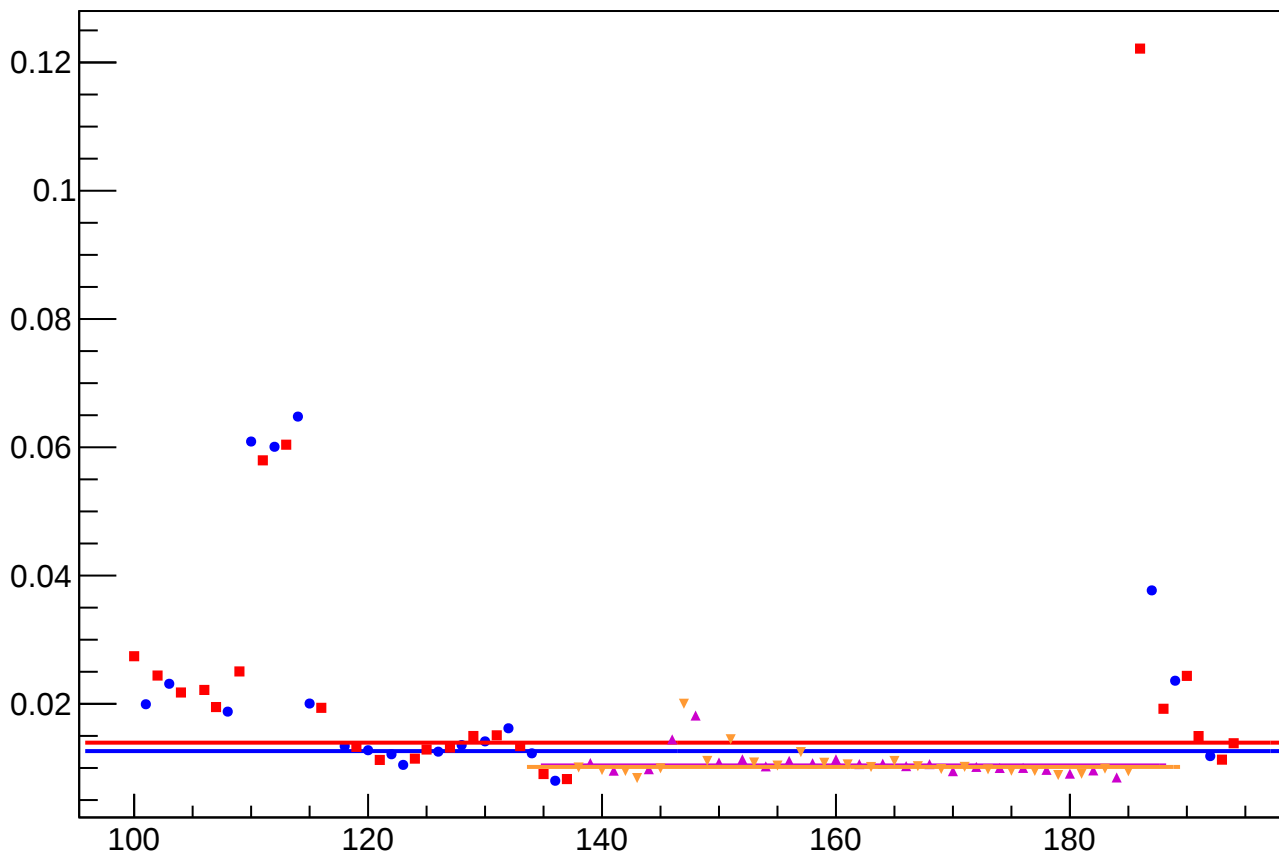
Right: 15.555+/-0.000 χ^2/NDF : 14087010755.1/44

In: 15.114+/-0.000 χ^2/NDF : 39259085234.2/42

Out: 15.062+/-0.000 χ^2/NDF : 43928380273.6/49

All: 15.087+/-0.000 χ^2/NDF : 83465944175.0

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2456197.5/19

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2973262.2/24

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

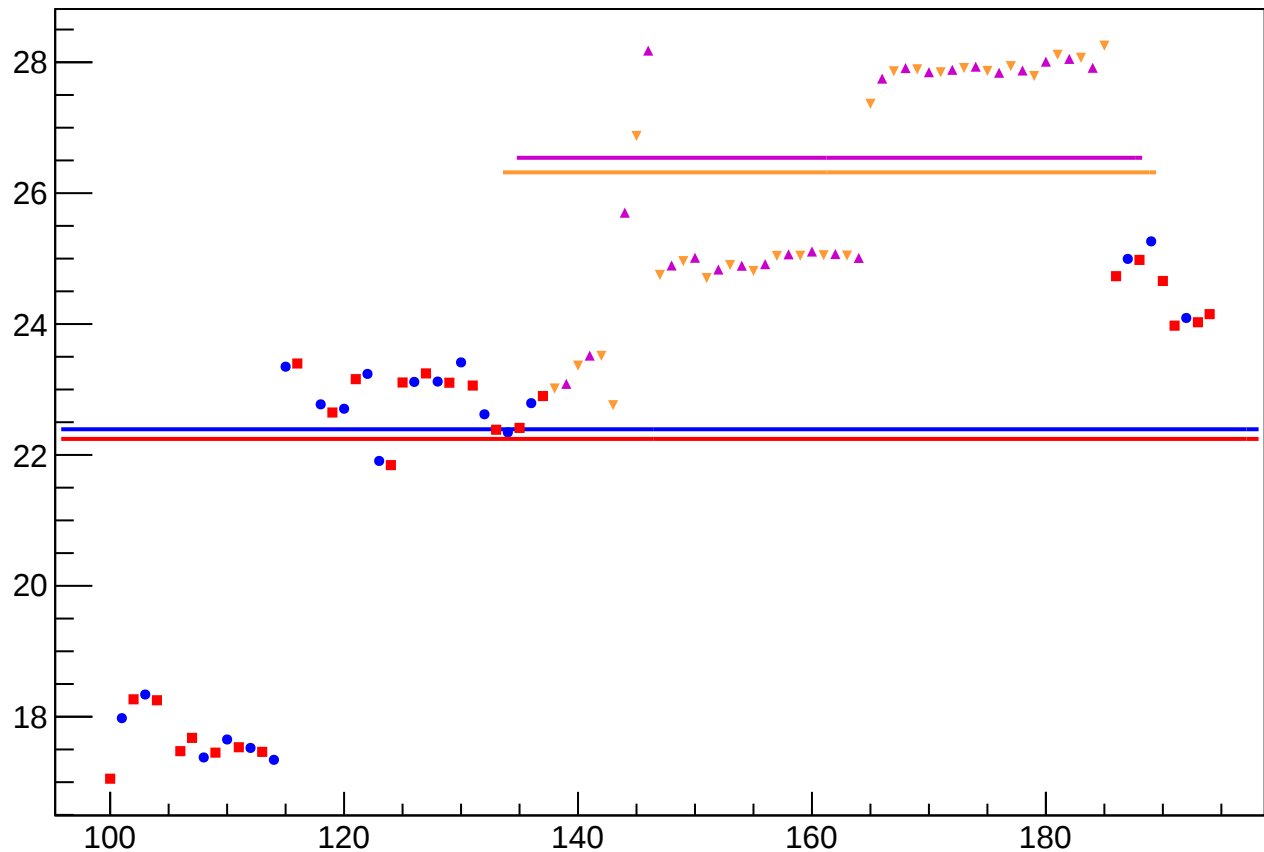
Right: 0.013+/-0.000 χ^2/NDF : 5501192.0/44

In: 0.011+/-0.000 χ^2/NDF : 3319012.3/42

Out: 0.011+/-0.000 χ^2/NDF : 4665821.2/49

All: 0.011+/-0.000 χ^2/NDF : 7985761.8/92

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.392+/-0.000

χ^2/NDF : 1011621798.9/19

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right Out: 22.245+/-0.000

χ^2/NDF : 1243947578.3/24

Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 22.321+/-0.000

χ^2/NDF : 2259015335.4/44

In: 25.707+/-0.000

χ^2/NDF : 8800713073.6/42

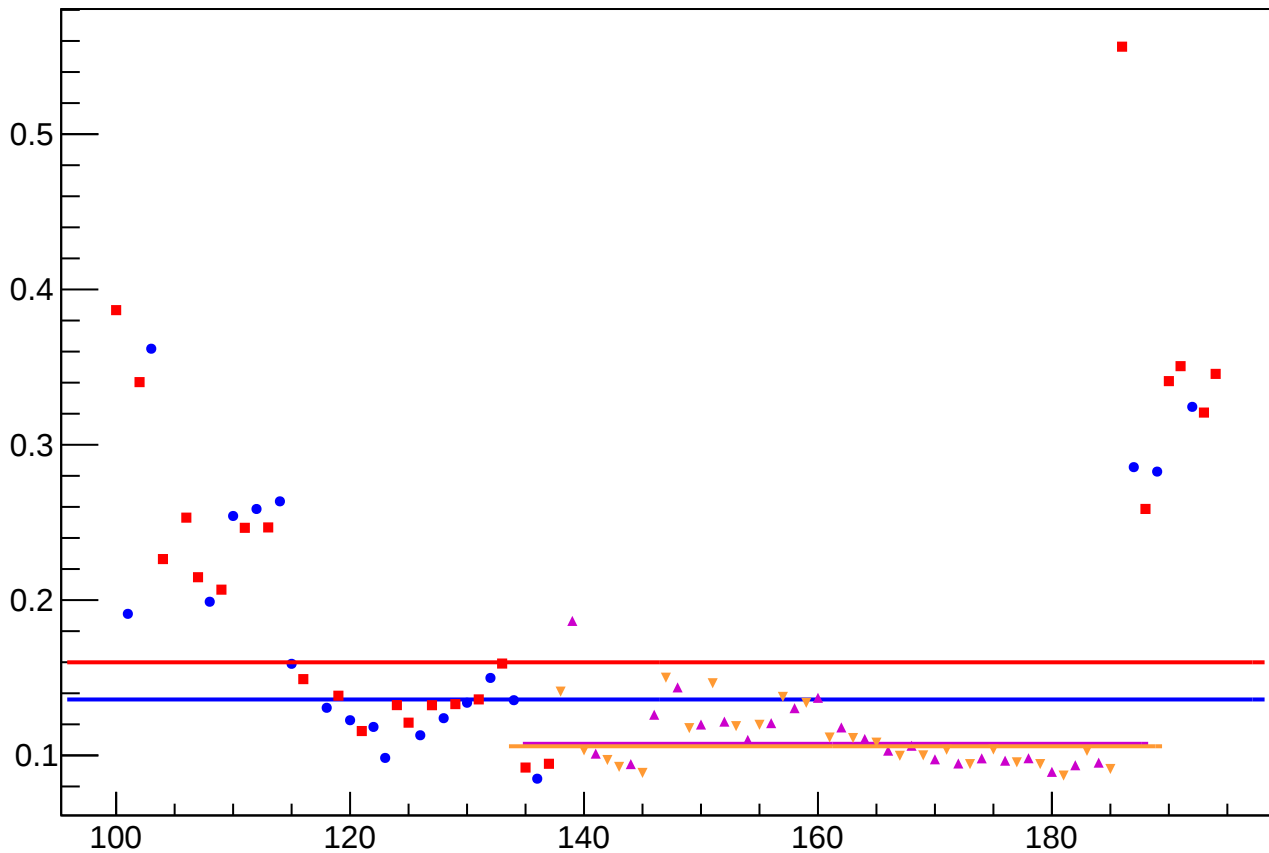
Out: 25.589+/-0.000

χ^2/NDF : 10147306657.6/49

All: 25.646+/-0.000

χ^2/NDF : 18959649123.5

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.136+/-0.000 χ^2/NDF : 2443113.6/19

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.160+/-0.000 χ^2/NDF : 3449229.1/24

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

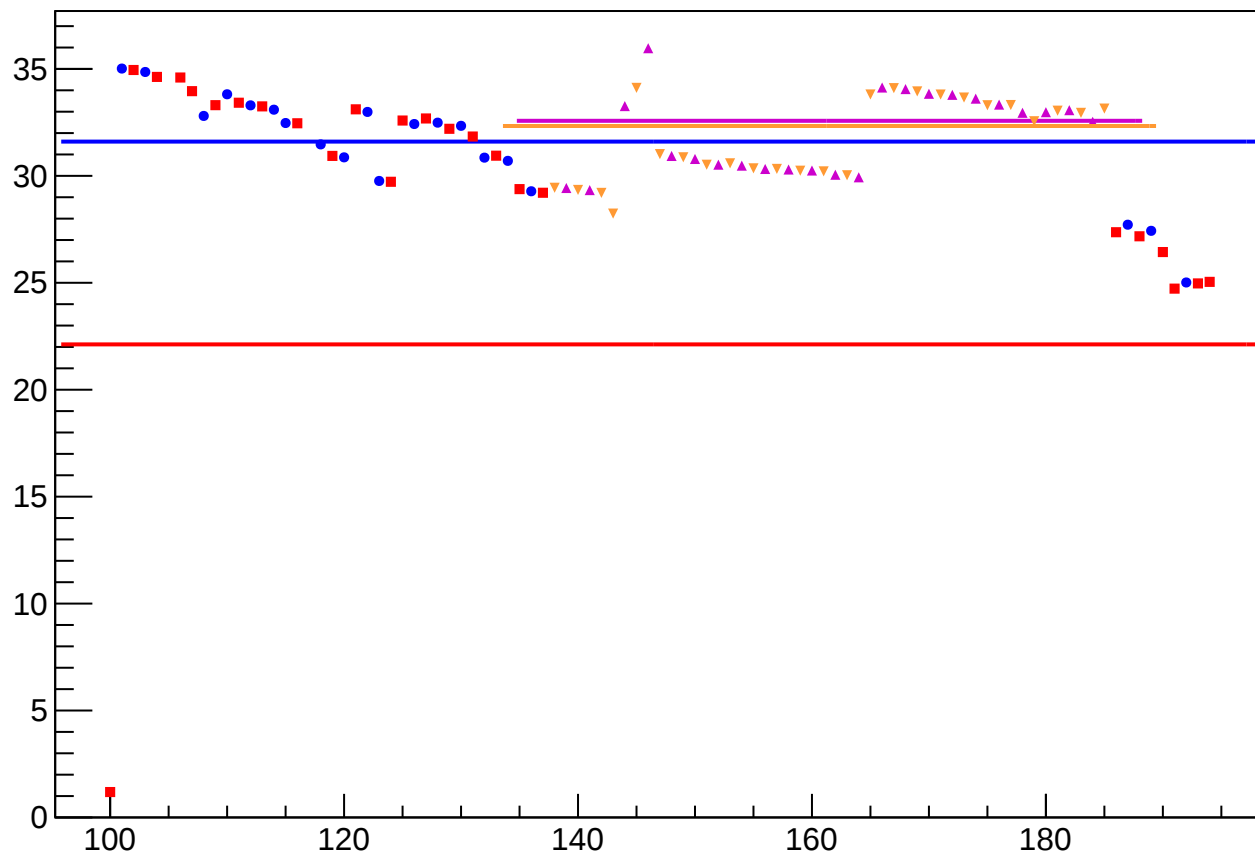
Right: 0.148+/-0.000 χ^2/NDF : 6073508.5/44

In: 0.113+/-0.000 χ^2/NDF : 3638514.2/42

Out: 0.116+/-0.000 χ^2/NDF : 5657670.9/49

All: 0.114+/-0.000 χ^2/NDF : 9305428.0/92

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.602+/-0.000

χ^2/NDF : 2980232474.0/19

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right Out: 22.120+/-0.000

χ^2/NDF : 230577165125.7/24

Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.890+/-0.000

χ^2/NDF : 274388202725.2/44

In: 32.417+/-0.000

χ^2/NDF : 15375788112.4/42

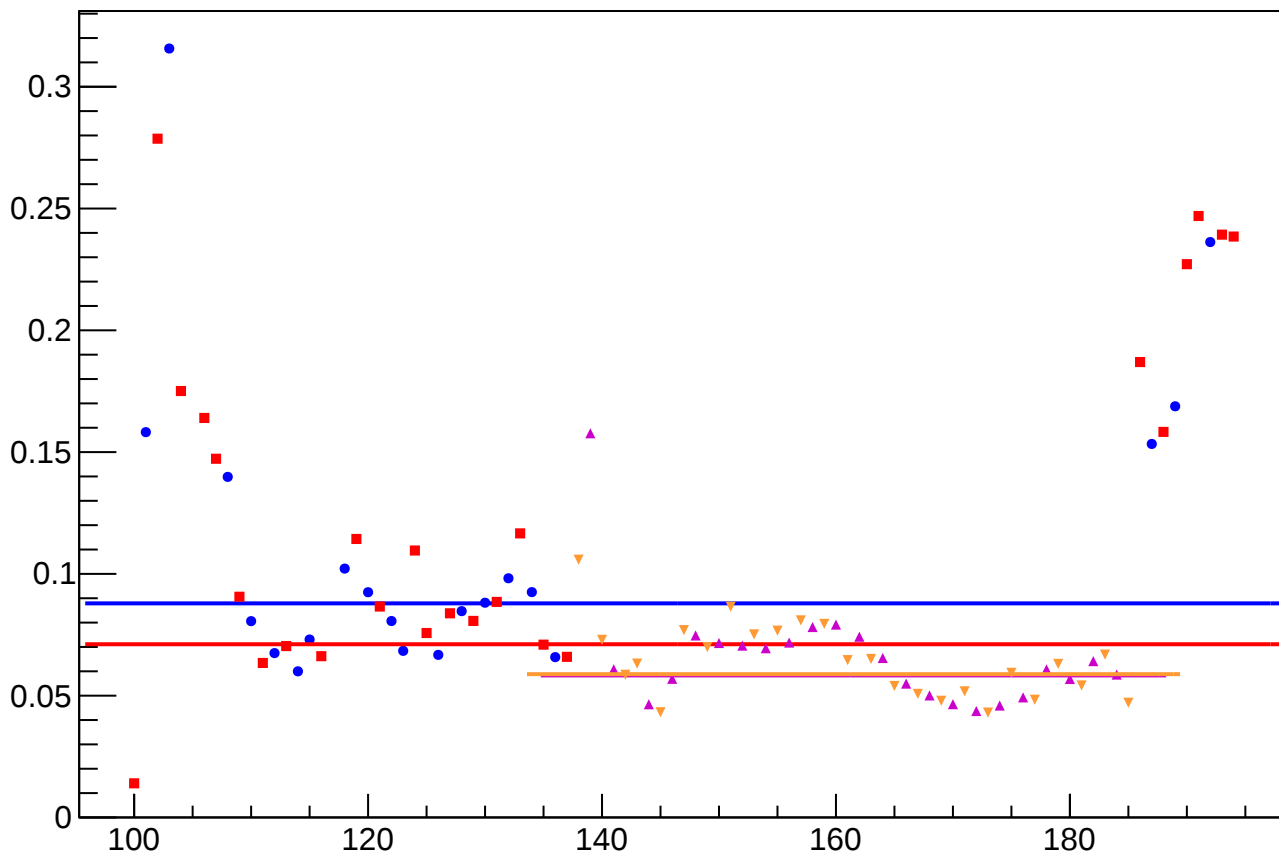
Out: 30.105+/-0.000

χ^2/NDF : 336551775724.4/49

All: 31.195+/-0.000

χ^2/NDF : 365136503270.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 2166059.5/19

Left Out: 0.059+/-0.000 χ^2/NDF :1402605.2/24

Right Out: 0.071+/-0.000 χ^2/NDF : 6703342.0/24

Left In: 0.058+/-0.000 χ^2/NDF :1525476.4/22

Left: 0.059+/-0.000 χ^2/NDF : 2929140.7/47

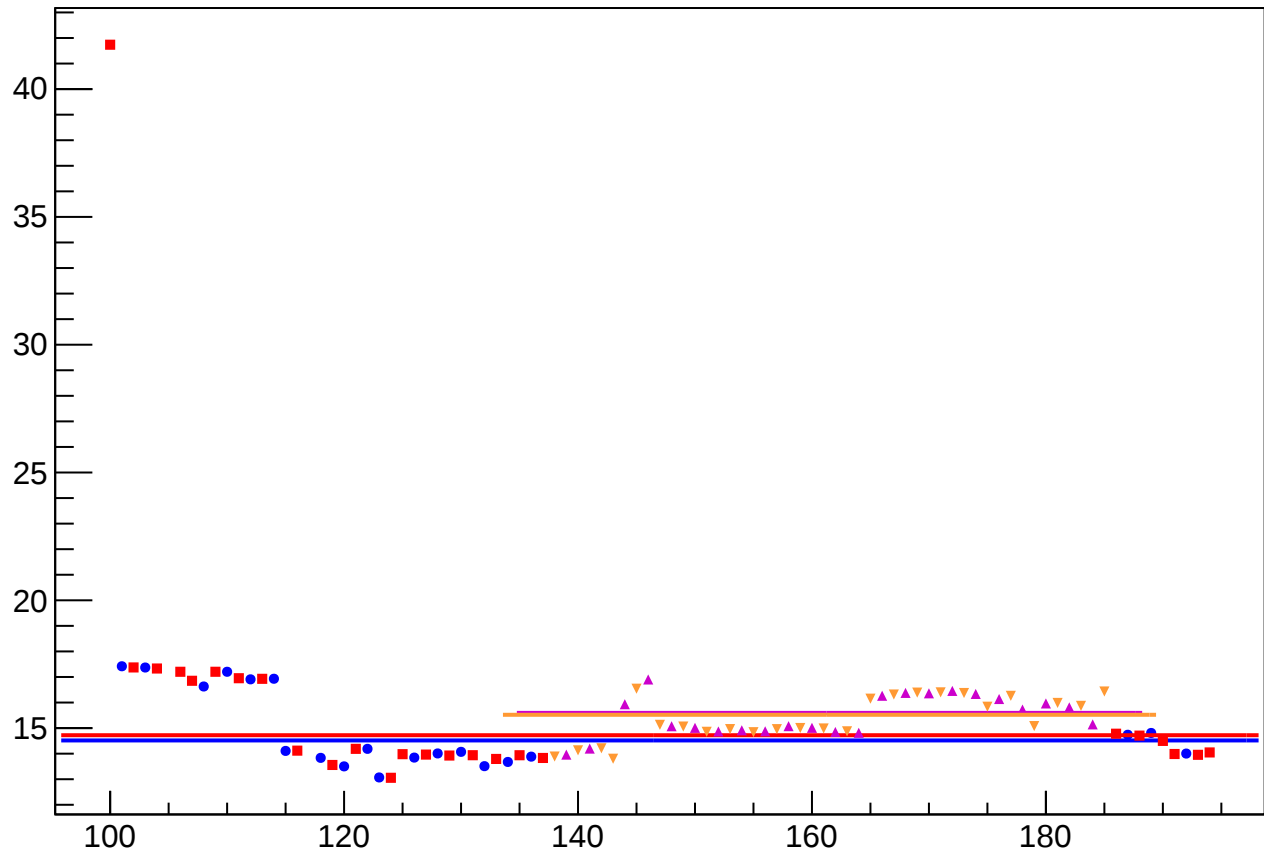
Right: 0.078+/-0.000 χ^2/NDF : 9125145.5/44

In: 0.063+/-0.000 χ^2/NDF :4798215.7/42

Out: 0.062+/-0.000 χ^2/NDF :8375668.9/49

All: 0.062+/-0.000 χ^2/NDF : 13186197.1/92

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.517+/-0.000 χ^2/NDF : 1492323924.2/19

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.722+/-0.000 χ^2/NDF : 1926432908.6/24

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

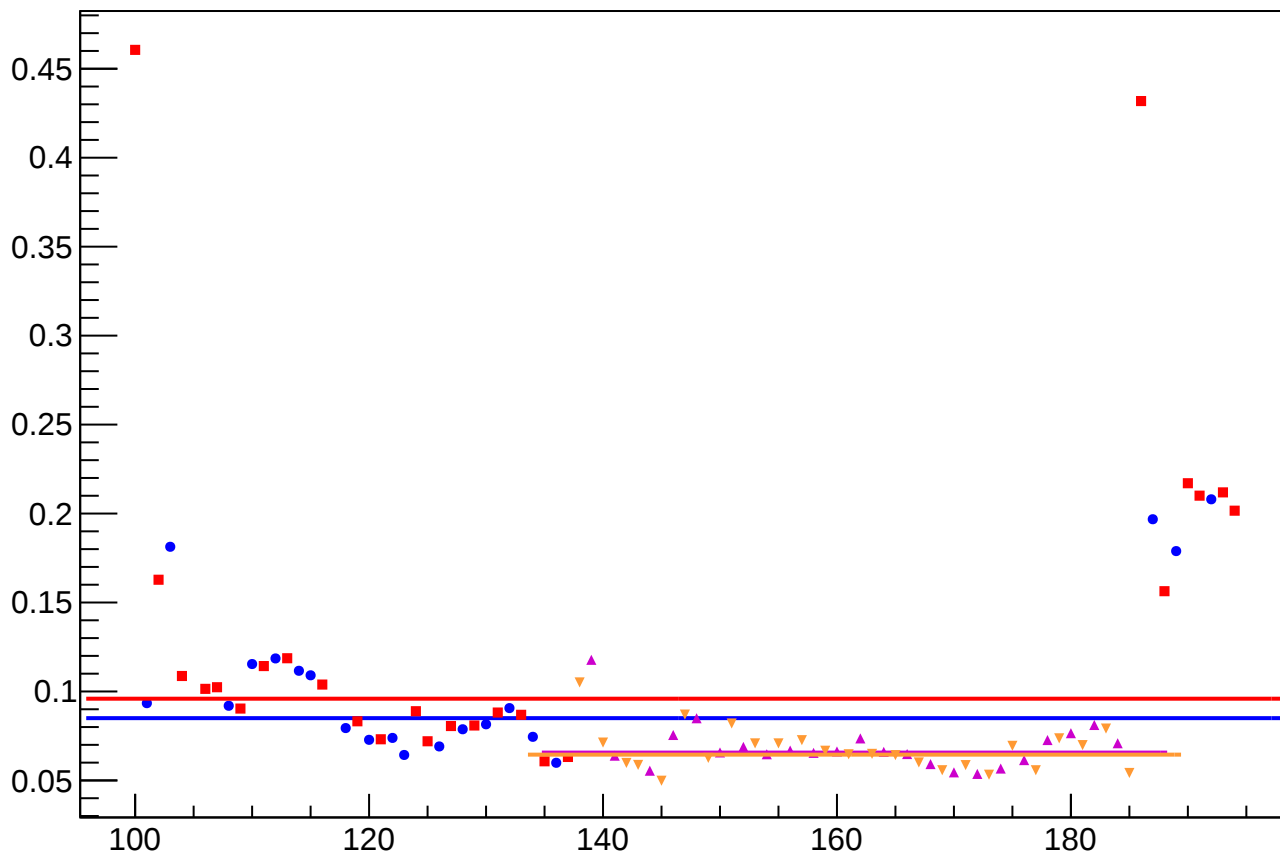
Right: 14.619+/-0.000 χ^2/NDF : 3437353418.5/44

In: 15.372+/-0.000 χ^2/NDF : 4227042086.1/42

Out: 15.368+/-0.000 χ^2/NDF : 4976223953.0/49

All: 15.370+/-0.000 χ^2/NDF : 9203307947.0/99

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.085 $\pm$ 0.000 χ^2 /NDF: 1769714.2/19

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.096 $\pm$ 0.000 χ^2 /NDF: 2851717.1/24

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

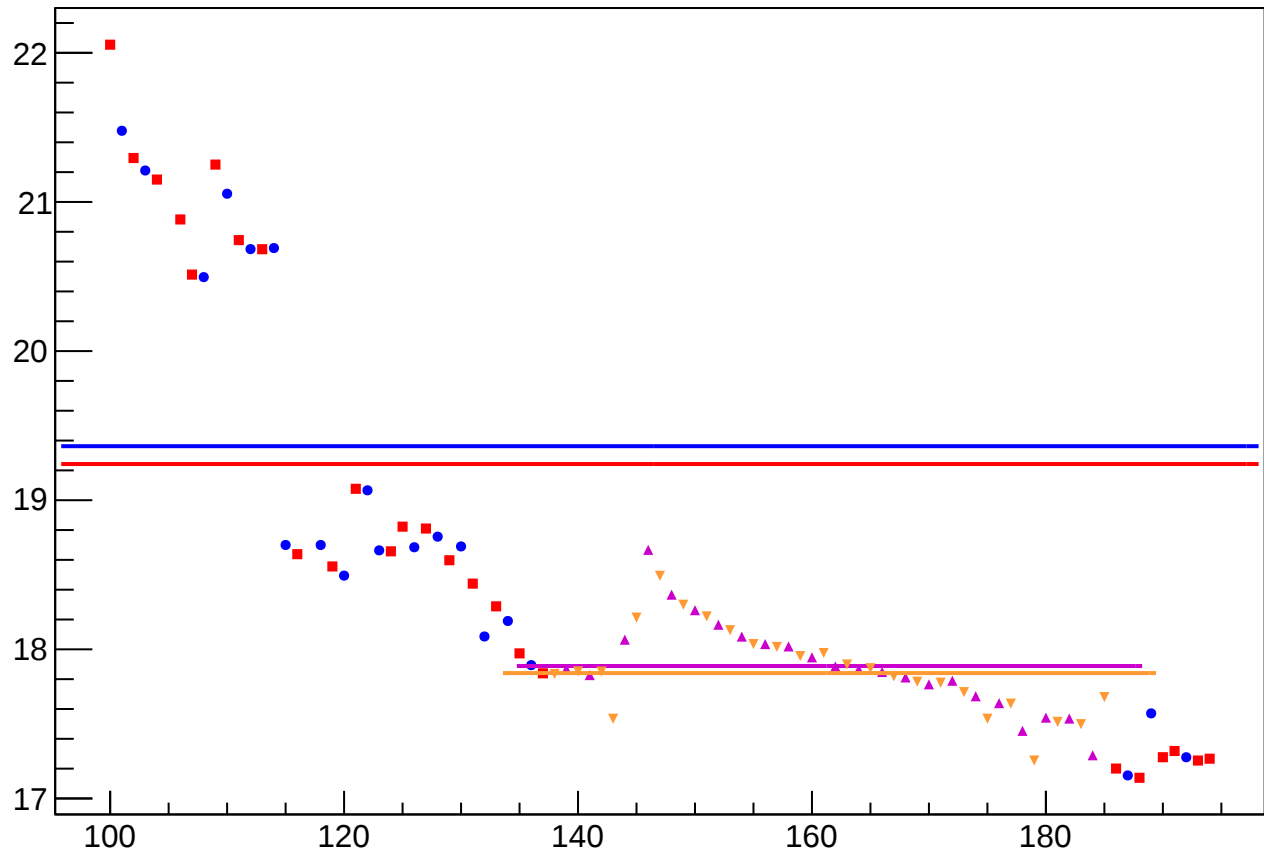
Right: 0.090 $\pm$ 0.000 χ^2 /NDF: 4727945.8/44

In: 0.070 $\pm$ 0.000 χ^2 /NDF: 3017140.2/42

Out: 0.071 $\pm$ 0.000 χ^2 /NDF: 5031276.1/49

All: 0.070 $\pm$ 0.000 χ^2 /NDF: 8051728.0/92

yield_sam5_mean vs Slug, Sign Corrected



Right In: 19.362 $\pm$ 0.000 χ^2 /NDF: 16873843999.9/19

Left Out: 17.841 $\pm$ 0.000 χ^2 /NDF: 1283287989.7/24

Right Out: 19.243 $\pm$ 0.000 χ^2 /NDF: 21740243553.0/24

Left In: 17.888 $\pm$ 0.000 χ^2 /NDF: 1203002311.3/22

Left: 17.864 $\pm$ 0.000 χ^2 /NDF: 2506375288.6/47

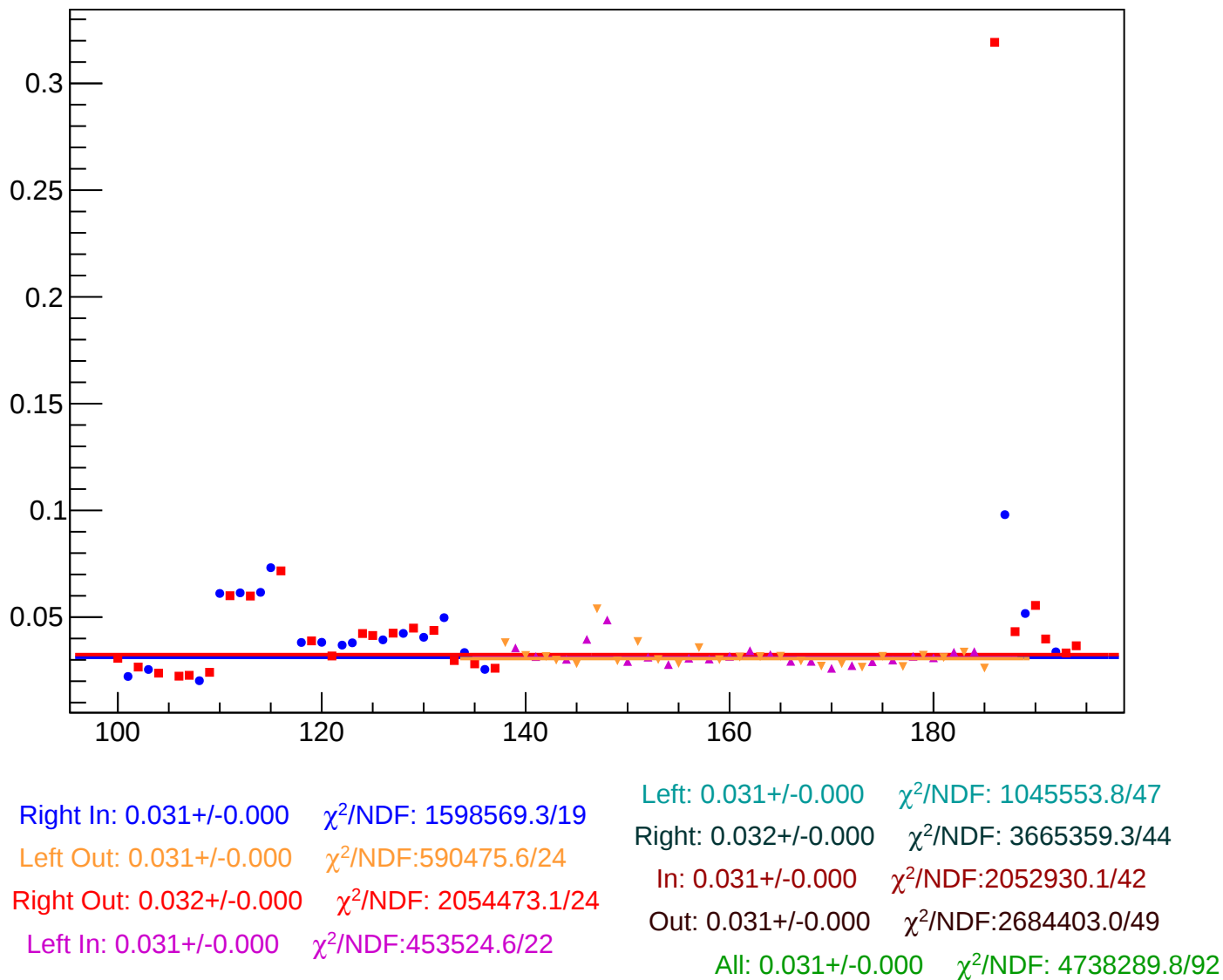
Right: 19.298 $\pm$ 0.000 χ^2 /NDF: 38668628001.7/44

In: 18.314 $\pm$ 0.000 χ^2 /NDF: 28963153229.1/42

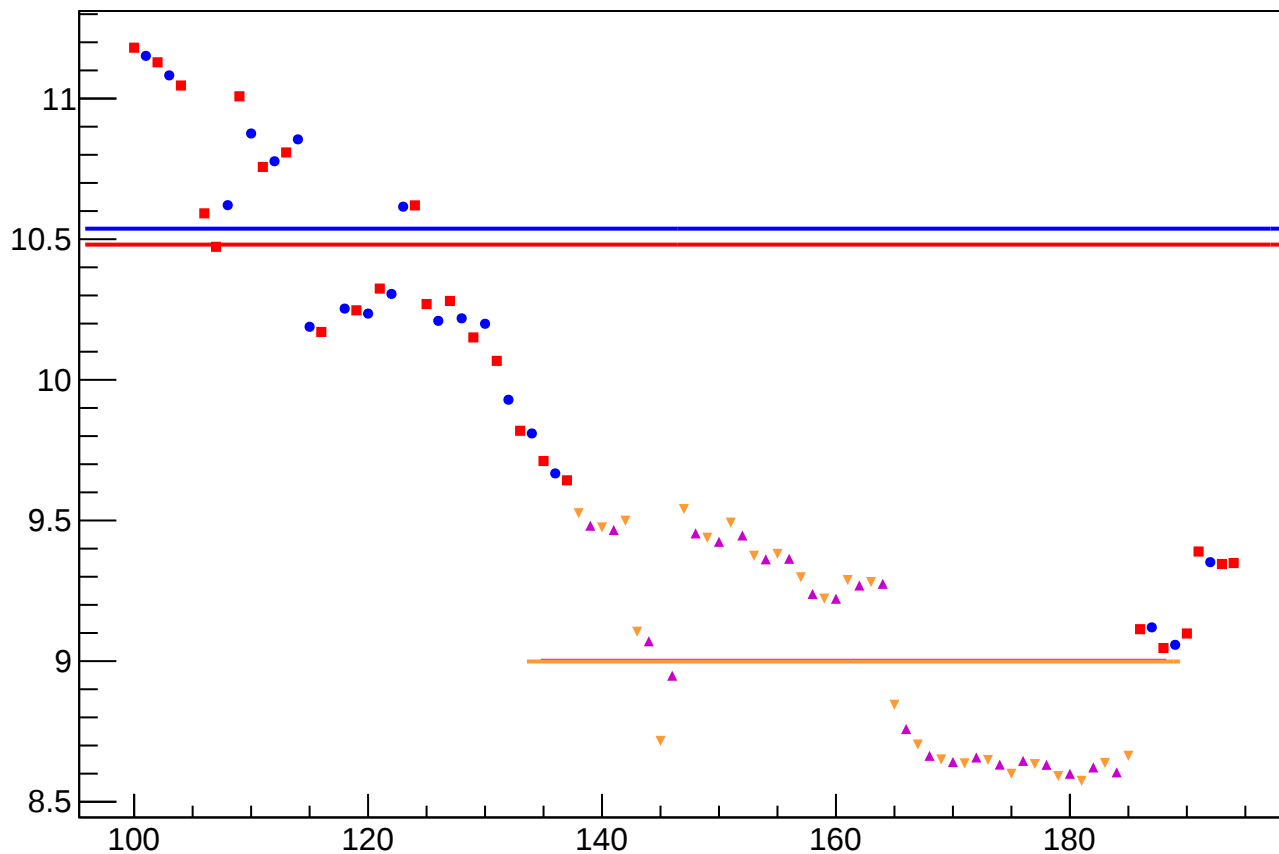
Out: 18.272 $\pm$ 0.000 χ^2 /NDF: 34286990253.0/49

All: 18.292 $\pm$ 0.000 χ^2 /NDF: 63272122107.9

yield_sam5_rms vs Slug, Sign Corrected



yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.537+/-0.000 χ^2/NDF : 9039199546.5/19

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.481+/-0.000 χ^2/NDF : 9118712502.1/24

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

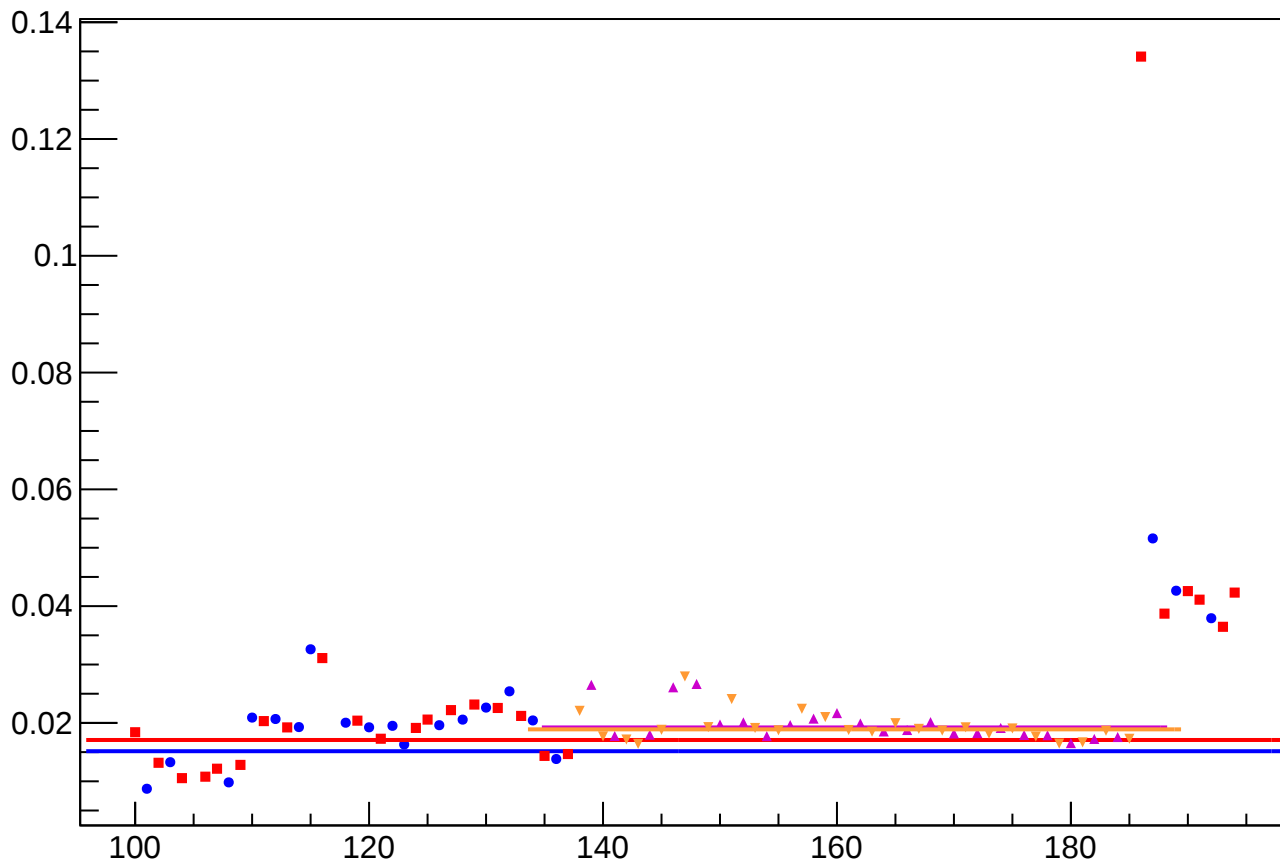
Right: 10.509+/-0.000 χ^2/NDF : 18201385336.3/44

In: 9.595+/-0.000 χ^2/NDF : 53371472222.8/42

Out: 9.542+/-0.000 χ^2/NDF : 53324993528.5/49

All: 9.567+/-0.000 χ^2/NDF : 106796428423.0

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 2581017.1/19

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.017+/-0.000 χ^2/NDF : 3661864.5/24

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

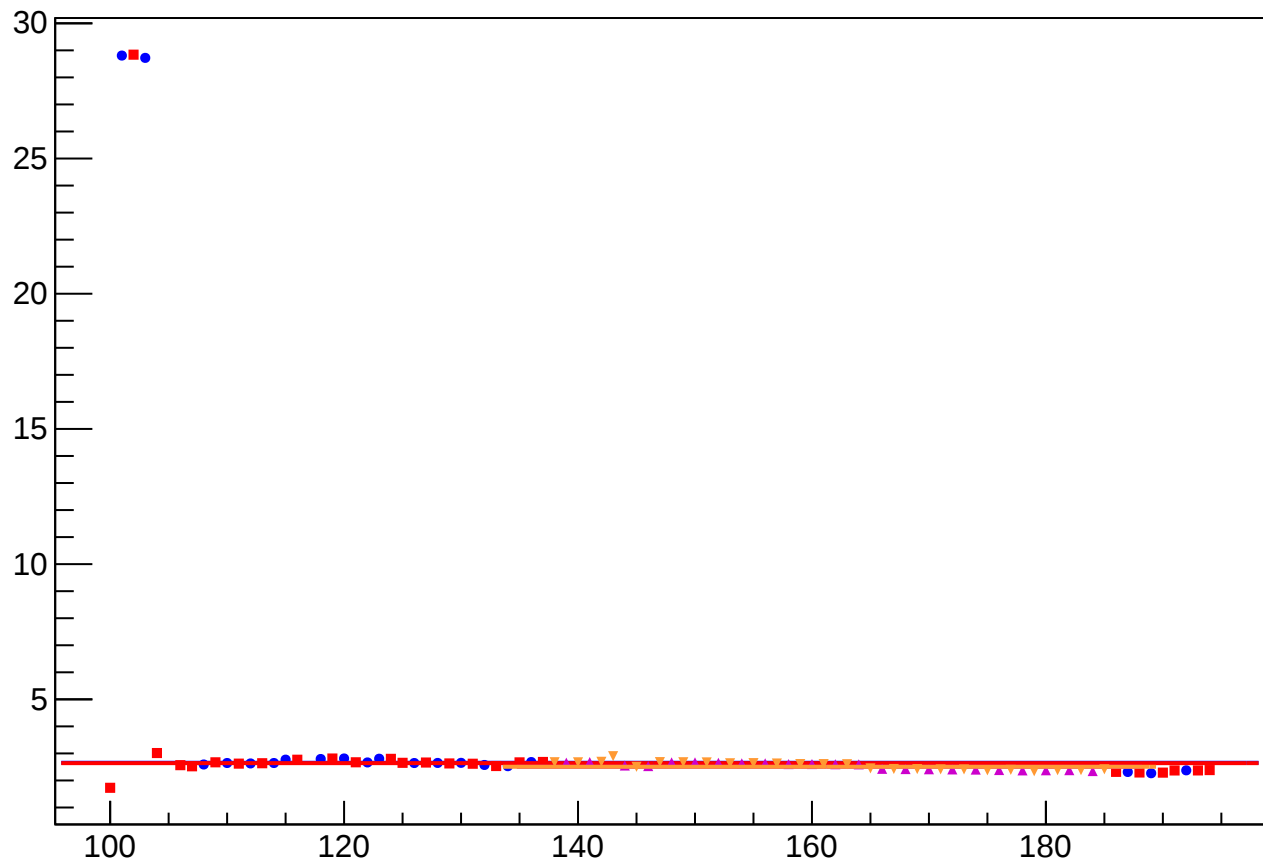
Right: 0.016+/-0.000 χ^2/NDF : 6342860.6/44

In: 0.018+/-0.000 χ^2/NDF : 3610572.7/42

Out: 0.018+/-0.000 χ^2/NDF : 4204096.1/49

All: 0.018+/-0.000 χ^2/NDF : 7838634.4/92

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.655 $\pm$ 0.000 χ^2 /NDF: 167499020864.0/19

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.641 $\pm$ 0.000 χ^2 /NDF: 79989719905.3/24

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

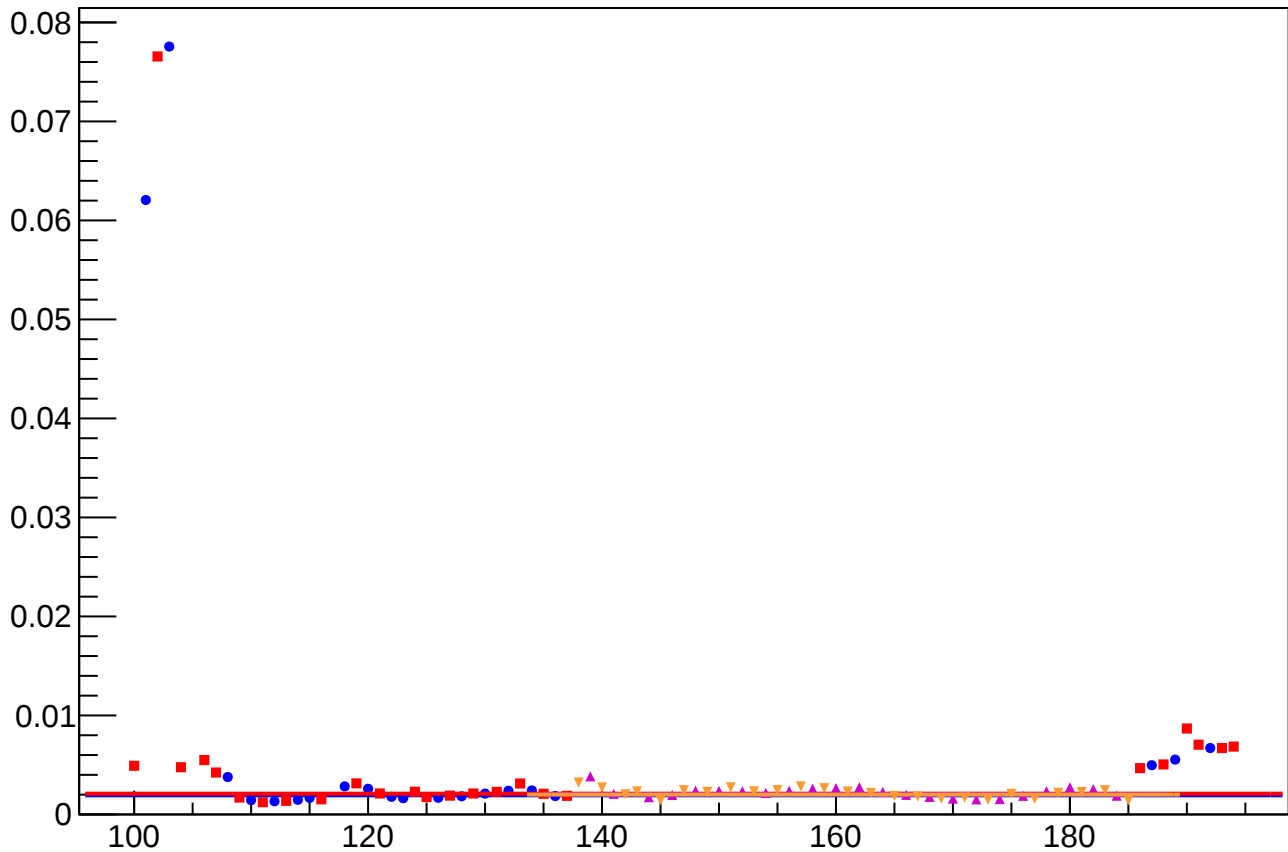
Right: 2.647 $\pm$ 0.000 χ^2 /NDF: 247628185628.2/44

In: 2.549 $\pm$ 0.000 χ^2 /NDF: 232092899996.7/42

Out: 2.546 $\pm$ 0.000 χ^2 /NDF: 163354657143.9/49

All: 2.547 $\pm$ 0.000 χ^2 /NDF: 395481679197.8

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4048100.7/19

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5417797.4/24

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

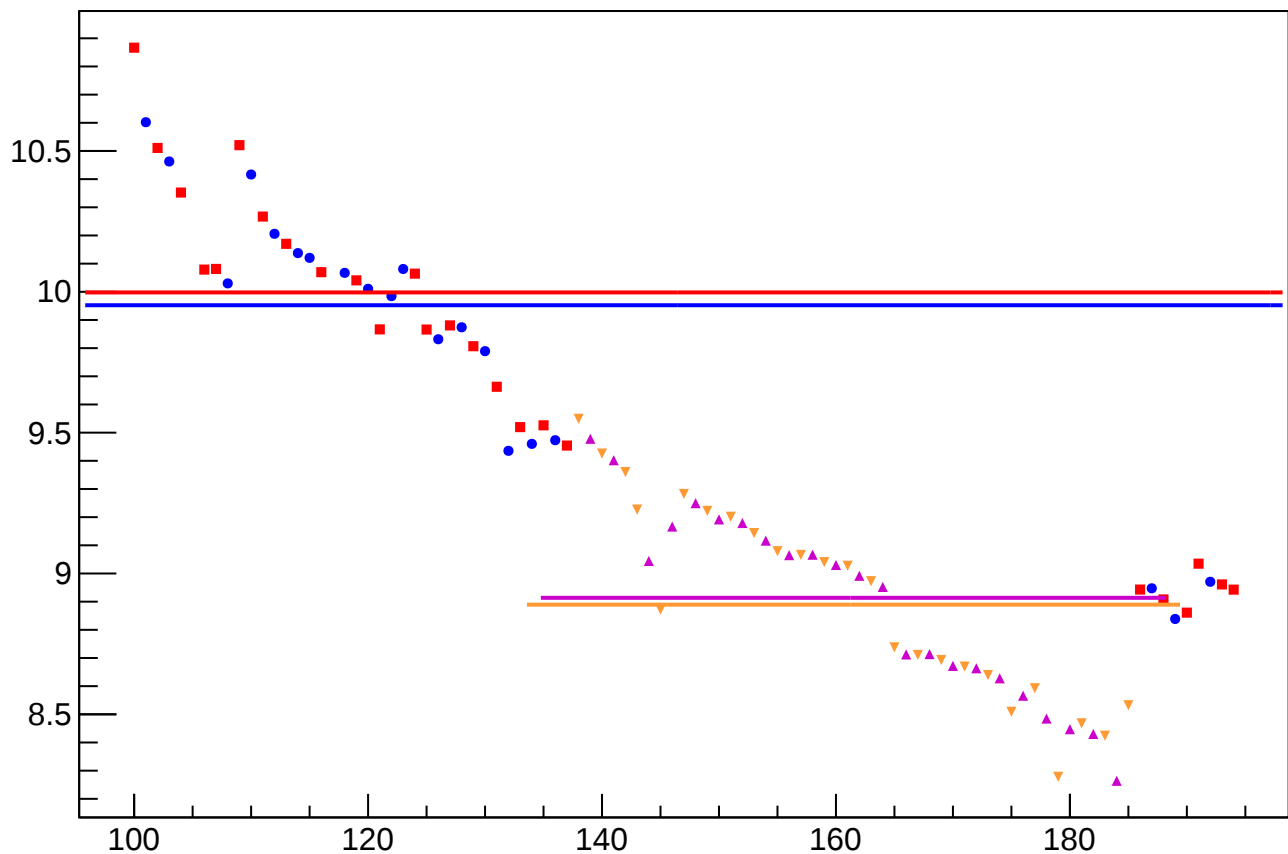
Right: 0.002+/-0.000 χ^2/NDF : 9503897.5/44

In: 0.002+/-0.000 χ^2/NDF :5381025.8/42

Out: 0.002+/-0.000 χ^2/NDF :6904738.9/49

All: 0.002+/-0.000 χ^2/NDF : 12286310.2/92

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.952 $\pm$ 0.000 χ^2/NDF : 25921209396.9/19

Left Out: 8.889 $\pm$ 0.000 χ^2/NDF : 34704694045.9/24

Right Out: 9.998 $\pm$ 0.000 χ^2/NDF : 32970142885.3/24

Left In: 8.914 $\pm$ 0.000 χ^2/NDF : 28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2/NDF : 63312247922.6/47

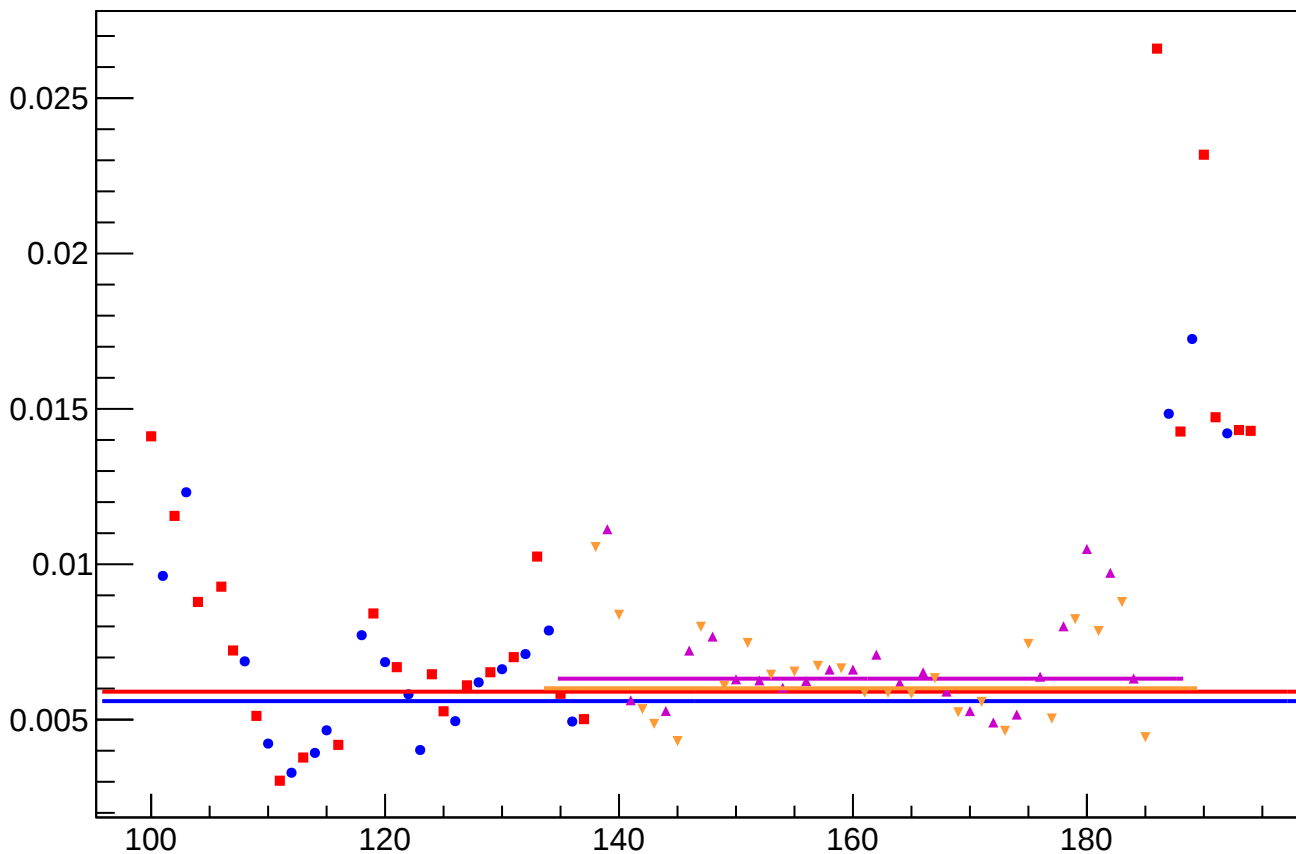
Right: 9.976 $\pm$ 0.000 χ^2/NDF : 59094078722.2/44

In: 9.277 $\pm$ 0.000 χ^2/NDF : 185948462888.3/42

Out: 9.264 $\pm$ 0.000 χ^2/NDF : 234983259893.7/49

All: 9.270 $\pm$ 0.000 χ^2/NDF : 420980857239.8

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2429067.0/19

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 4509989.4/24

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

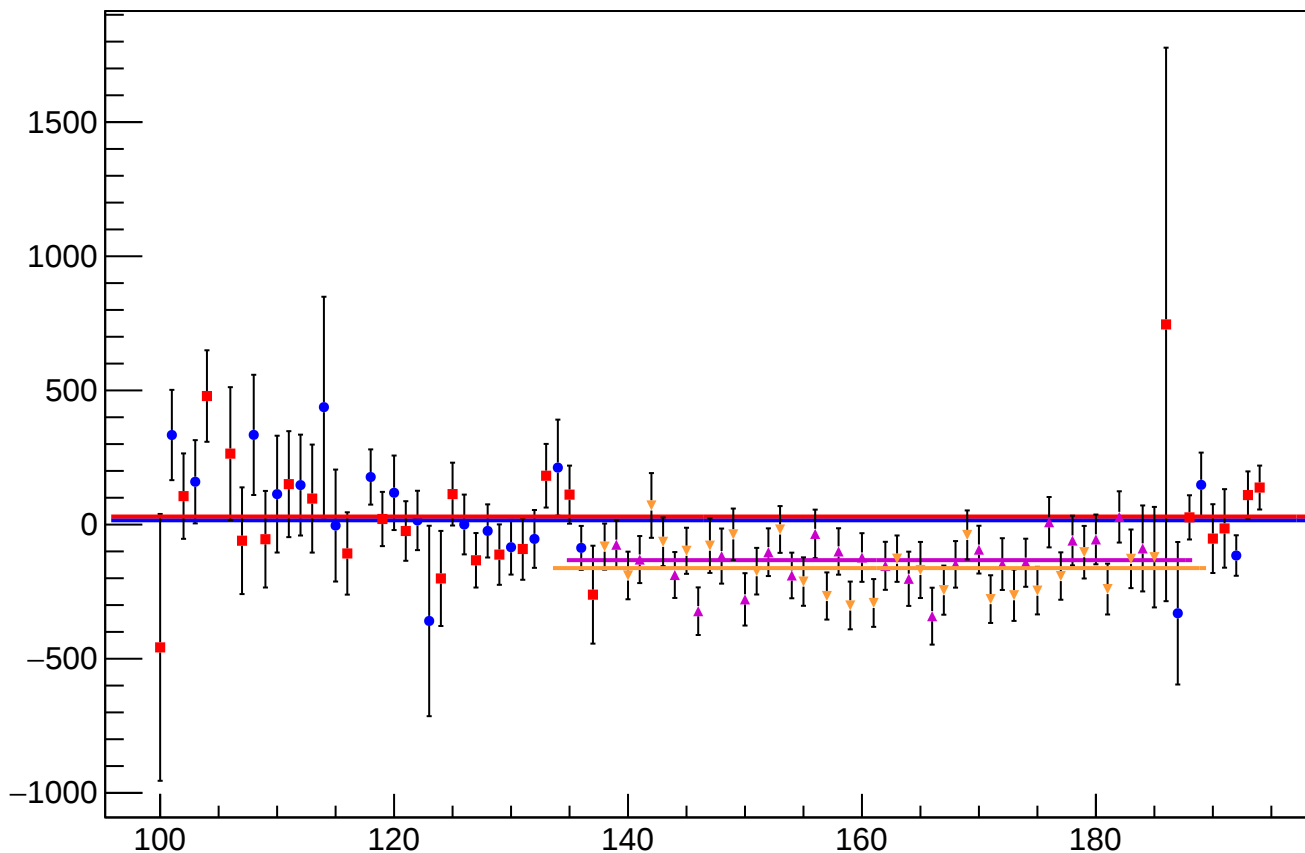
Right: 0.006+/-0.000 χ^2/NDF : 6957191.9/44

In: 0.006+/-0.000 χ^2/NDF :3643308.8/42

Out: 0.006+/-0.000 χ^2/NDF :5825769.9/49

All: 0.006+/-0.000 χ^2/NDF : 9474007.2/92

reg_asym_sam1_mean vs Slug, Sign Corrected

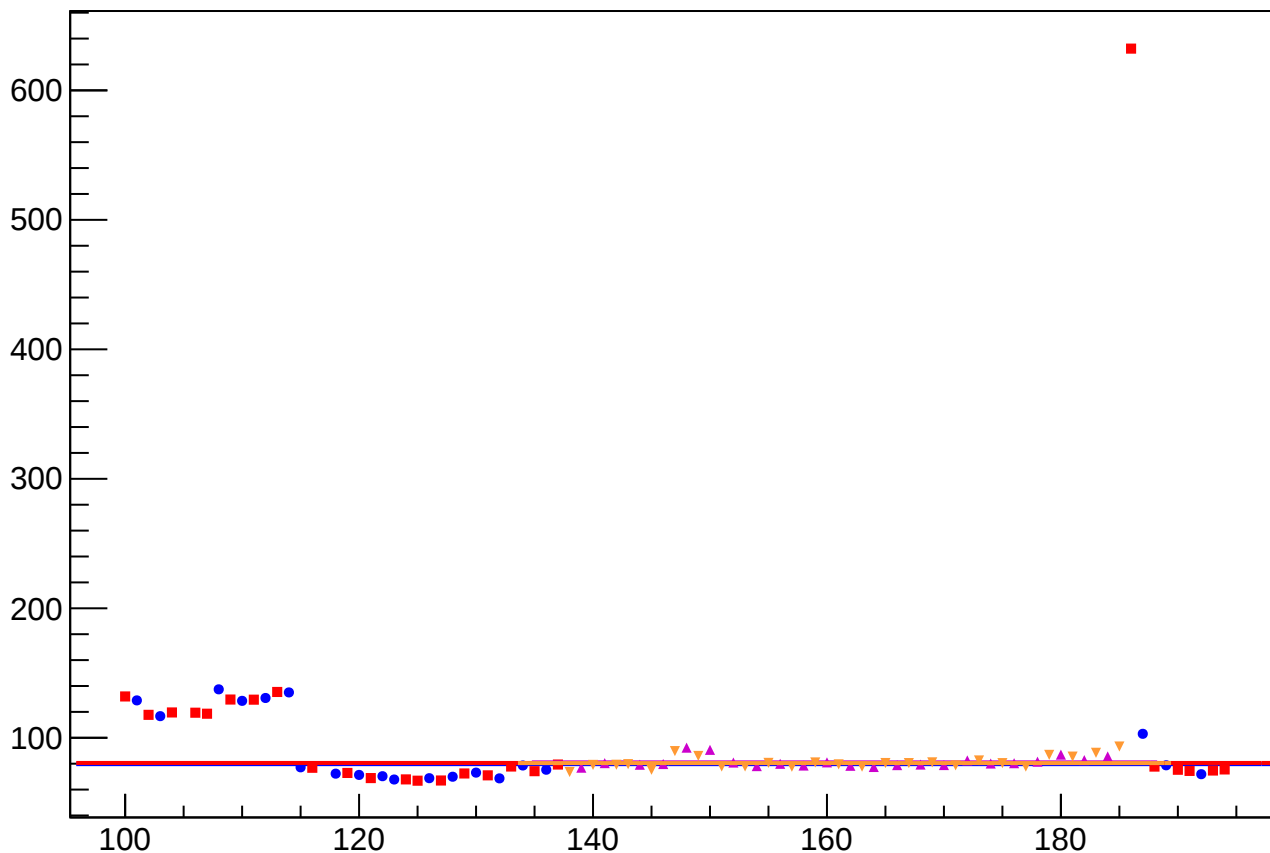


Right In: 15.953 ± 28.690 $\chi^2/\text{NDF}: 22.6/19$
Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$
Right Out: 30.093 ± 25.832 $\chi^2/\text{NDF}: 26.8/24$
Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$
Right: 23.762 ± 19.197 $\chi^2/\text{NDF}: 49.5/44$
In: -85.949 ± 16.073 $\chi^2/\text{NDF}: 61.7/42$
Out: -95.848 ± 15.171 $\chi^2/\text{NDF}: 88.7/49$

All: -91.184 ± 11.033 $\chi^2/\text{NDF}: 150.7/92$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 79.641 $\pm$ 0.020 χ^2 /NDF: 847027.8/19

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 80.571 $\pm$ 0.018 χ^2 /NDF: 1514341.2/24

Left In: 81.014 $\pm$ 0.014 χ^2 /NDF: 72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47

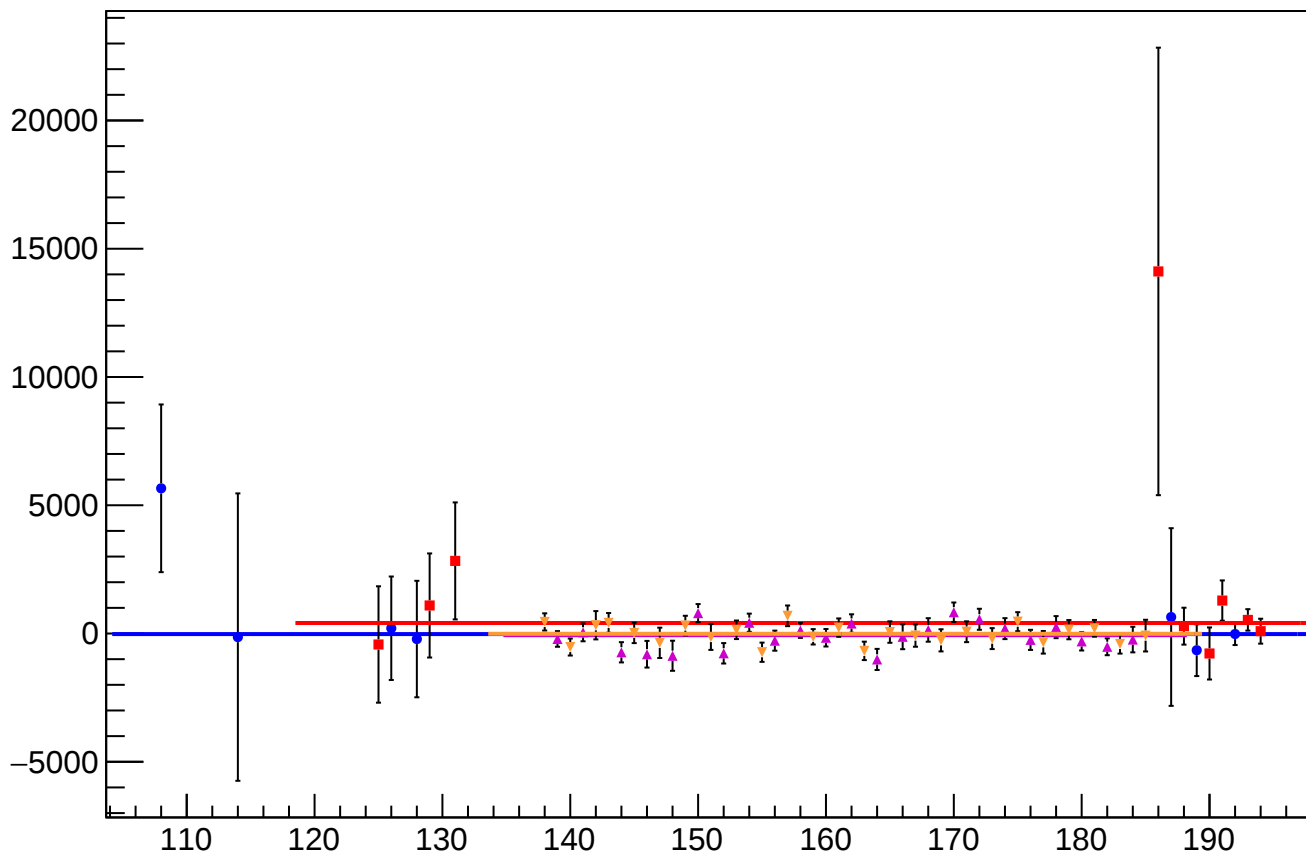
Right: 80.155 $\pm$ 0.014 χ^2 /NDF: 2362529.7/44

In: 80.583 $\pm$ 0.011 χ^2 /NDF: 922418.8/42

Out: 80.498 $\pm$ 0.011 χ^2 /NDF: 1604308.3/49

All: 80.538 $\pm$ 0.008 χ^2 /NDF: 2526757.0/92

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -21.859 $\pm$ 377.076 χ^2/NDF : 3.5/6

Left Out: -10.486 $\pm$ 78.391 χ^2/NDF :22.5/24

Right Out: 410.929 $\pm$ 257.132 χ^2/NDF : 7.0/8

Left In: -64.591 $\pm$ 80.047 χ^2/NDF :37.4/22

Left: -36.973 $\pm$ 56.007 χ^2/NDF : 60.2/47

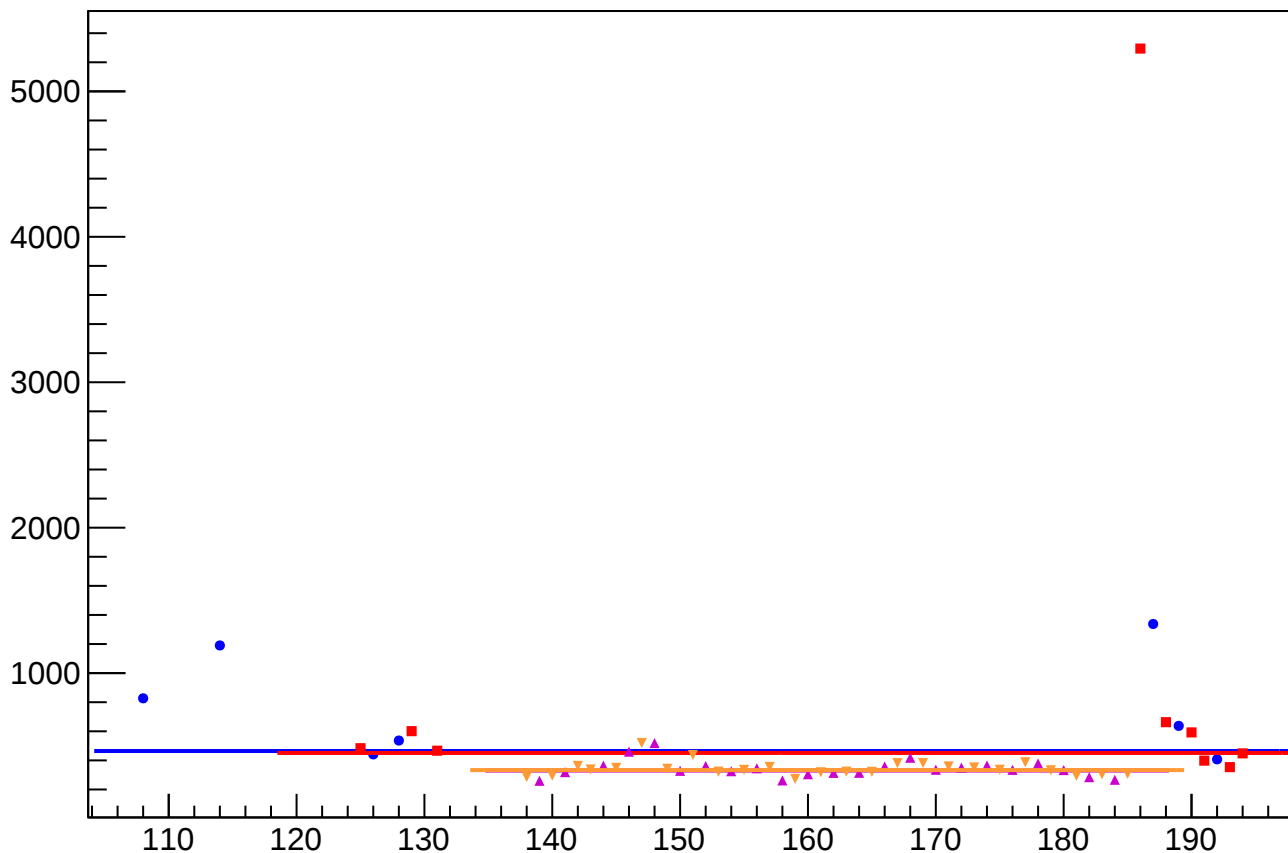
Right: 273.559 $\pm$ 212.440 χ^2/NDF : 11.4/15

In: -62.749 $\pm$ 78.302 χ^2/NDF :40.9/29

Out: 25.351 $\pm$ 74.984 χ^2/NDF :32.0/33

All: -16.793 $\pm$ 54.157 χ^2/NDF : 73.5/63

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 464.413 $\pm$ 0.267 χ^2 /NDF: 281610.1/6

Left Out: 333.233 $\pm$ 0.055 χ^2 /NDF: 592122.2/24

Right Out: 451.183 $\pm$ 0.182 χ^2 /NDF: 957854.7/8

Left In: 329.985 $\pm$ 0.057 χ^2 /NDF: 795969.0/22

Left: 331.643 $\pm$ 0.040 χ^2 /NDF: 1389771.8/47

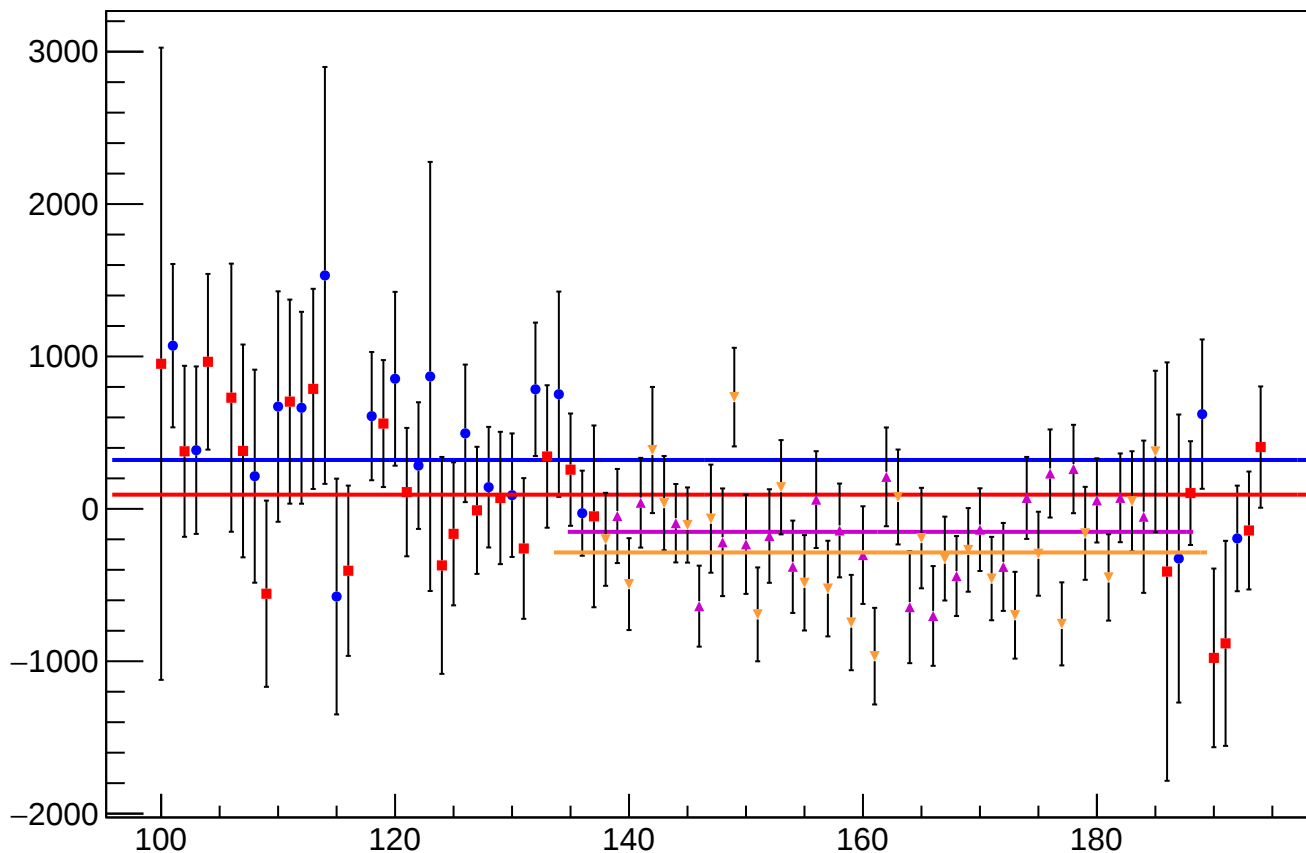
Right: 455.382 $\pm$ 0.150 χ^2 /NDF: 1241145.4/15

In: 335.782 $\pm$ 0.055 χ^2 /NDF: 1320803.3/29

Out: 343.264 $\pm$ 0.053 χ^2 /NDF: 1935025.4/33

All: 339.685 $\pm$ 0.038 χ^2 /NDF: 3265353.1/63

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 320.767 $\pm$ 110.709 χ^2/NDF : 13.0/19

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF :36.6/24

Right Out: 93.202 $\pm$ 102.125 χ^2/NDF : 17.0/24

Left In: -150.920 $\pm$ 62.818 χ^2/NDF :18.7/22

Left: -220.353 $\pm$ 43.797 χ^2/NDF : 57.6/47

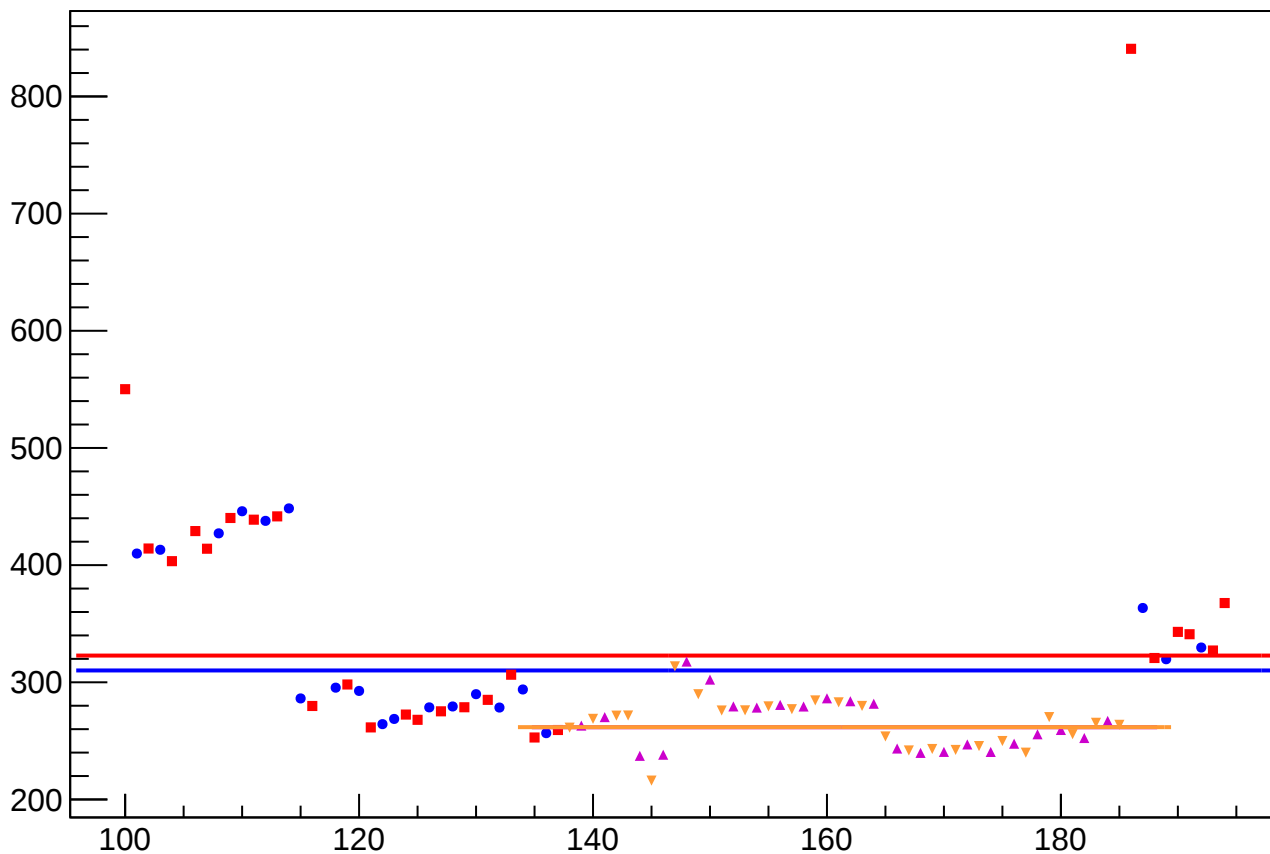
Right: 197.821 $\pm$ 75.065 χ^2/NDF : 32.3/44

In: -36.042 $\pm$ 54.635 χ^2/NDF :45.4/42

Out: -186.080 $\pm$ 52.429 χ^2/NDF :63.7/49

All: -114.152 $\pm$ 37.829 χ^2/NDF : 113.1/92

reg_asym_sam2_rms vs Slug, Sign Corrected



Left: 261.680 ± 0.031 $\chi^2/\text{NDF}: 461465.7/47$

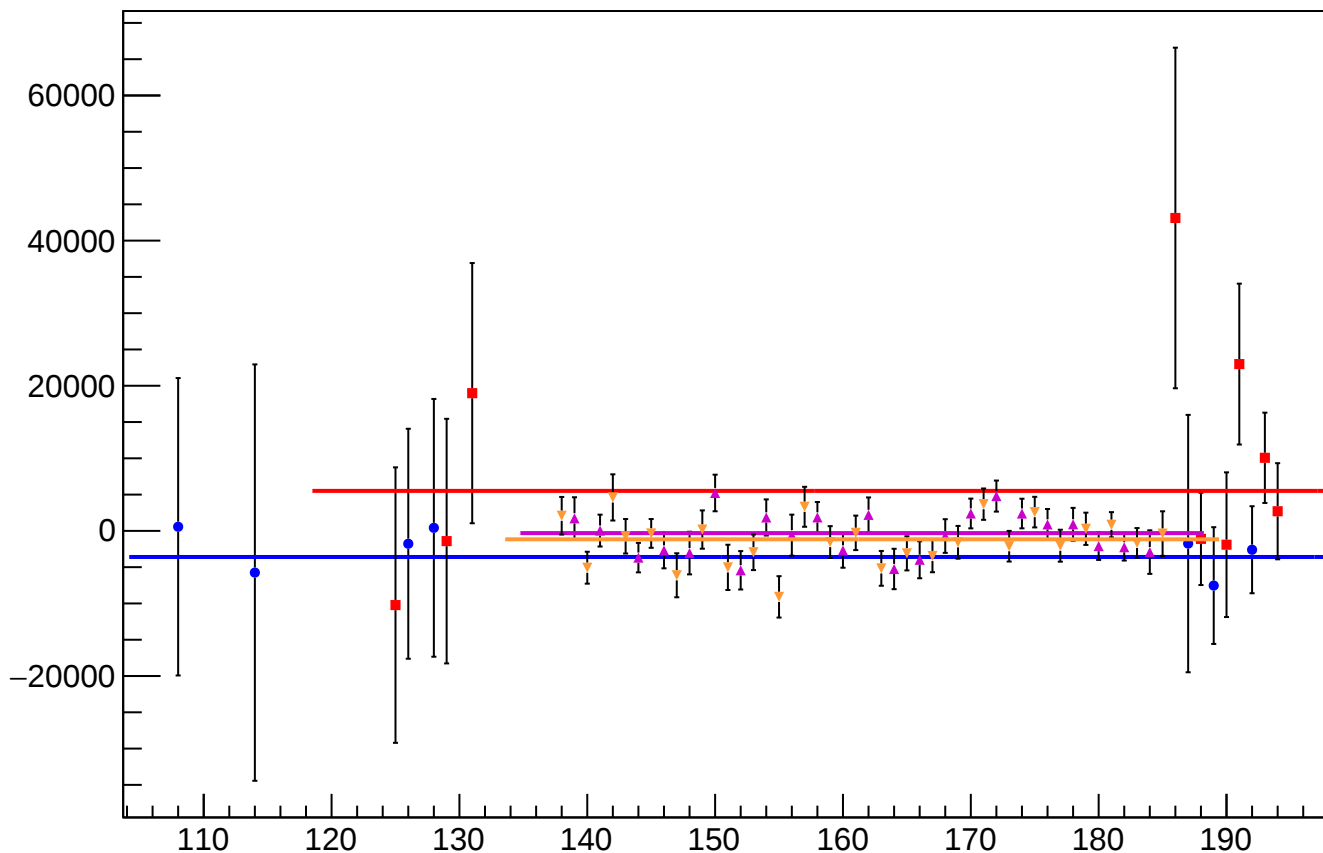
Right: 316.966 ± 0.053 $\chi^2/\text{NDF}: 1483560.3/44$

In: 273.441 ± 0.039 $\chi^2/\text{NDF}: 1038861.3/42$

Out: 277.821 ± 0.037 $\chi^2/\text{NDF}: 1708850.4/49$

All: 275.721 ± 0.027 $\chi^2/\text{NDF}: 2754402.5/92$

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -3595.789+/-4181.133 χ^2/NDF : 0.4/6

Left Out: -1161.443+/-469.036 χ^2/NDF : 38.8/24

Right Out: 5513.518+/-3119.481 χ^2/NDF : 8.8/8

Left In: -304.366+/-483.778 χ^2/NDF : 35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

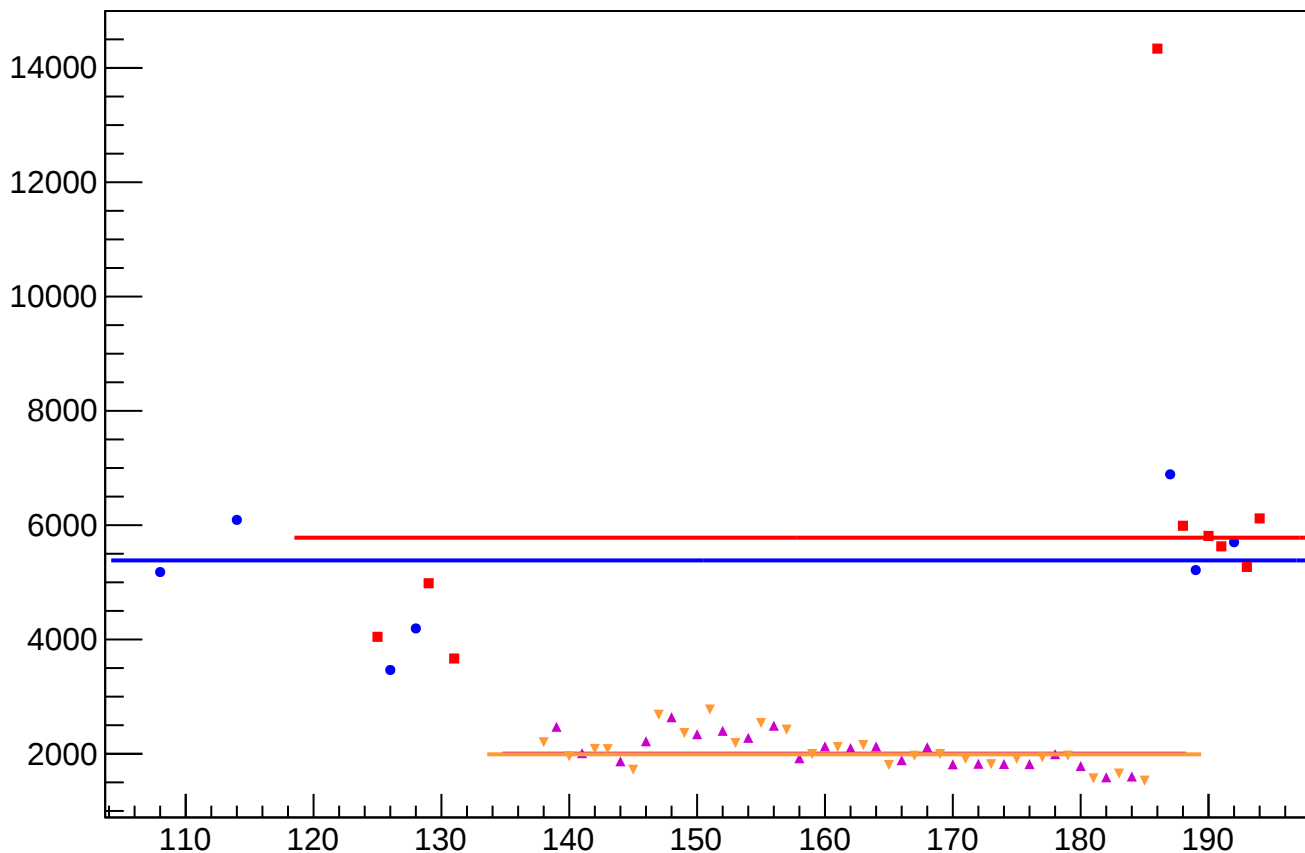
Right: 2256.103+/-2500.276 χ^2/NDF : 12.3/15

In: -347.848+/-480.572 χ^2/NDF : 36.4/29

Out: -1013.876+/-463.823 χ^2/NDF : 52.1/33

All: -692.671+/-333.736 χ^2/NDF : 89.4/63

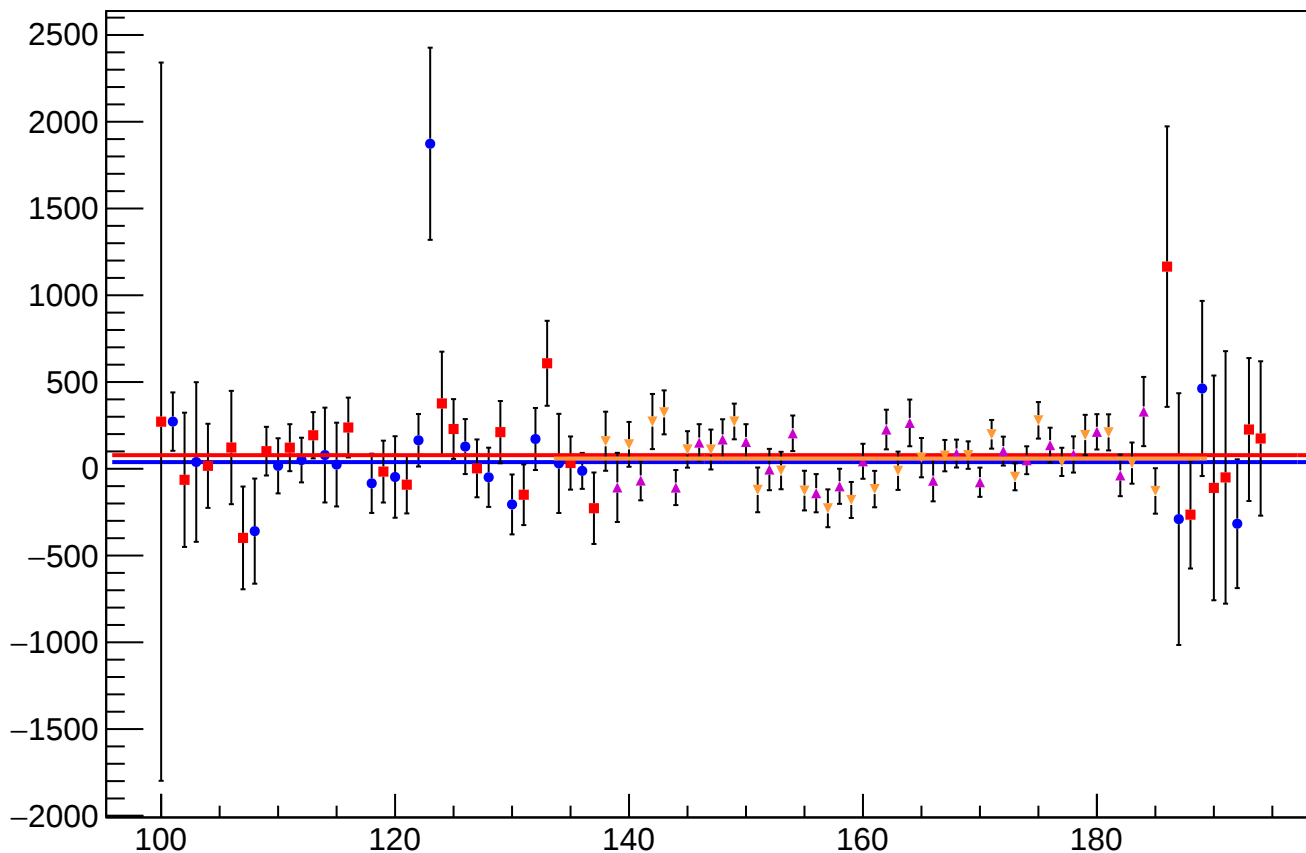
asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5383.586 $\pm$ 2.957 χ^2 /NDF: 60621.7/6
 Left Out: 1991.105 $\pm$ 0.332 χ^2 /NDF: 726310.6/24
 Right Out: 5781.320 $\pm$ 2.206 χ^2 /NDF: 336150.1/8
 Left In: 2002.154 $\pm$ 0.342 χ^2 /NDF: 585947.4/22

Left: 1996.458 $\pm$ 0.238 χ^2 /NDF: 1312795.7/47
 Right: 5639.094 $\pm$ 1.768 χ^2 /NDF: 408398.1/15
 In: 2046.825 $\pm$ 0.340 χ^2 /NDF: 1937395.0/29
 Out: 2074.897 $\pm$ 0.328 χ^2 /NDF: 3949709.5/33
 All: 2061.359 $\pm$ 0.236 χ^2 /NDF: 5890637.5/63

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 38.514 ± 43.099 χ^2/NDF : 21.2/19

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 78.509 ± 42.158 χ^2/NDF : 20.4/24

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

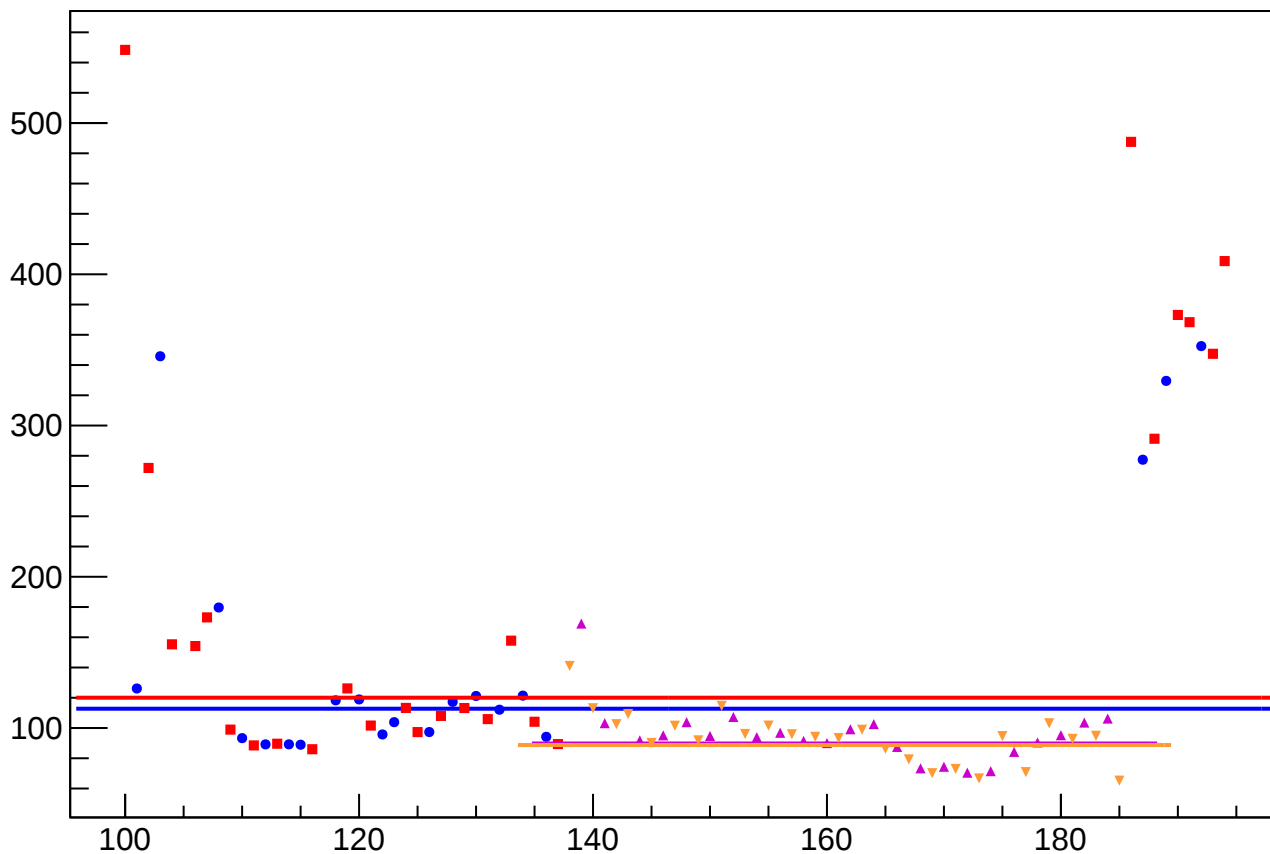
Right: 58.953 ± 30.137 χ^2/NDF : 42.0/44

In: 54.976 ± 19.539 χ^2/NDF : 50.8/42

Out: 62.905 ± 18.895 χ^2/NDF : 67.5/49

All: 59.073 ± 13.583 χ^2/NDF : 118.3/92

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 112.762 $\pm$ 0.030 χ^2 /NDF: 2182605.0/19

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 120.046 $\pm$ 0.030 χ^2 /NDF: 4074020.2/24

Left In: 89.766 $\pm$ 0.016 χ^2 /NDF:885818.0/22

Left: 89.238 $\pm$ 0.011 χ^2 /NDF: 1967390.0/47

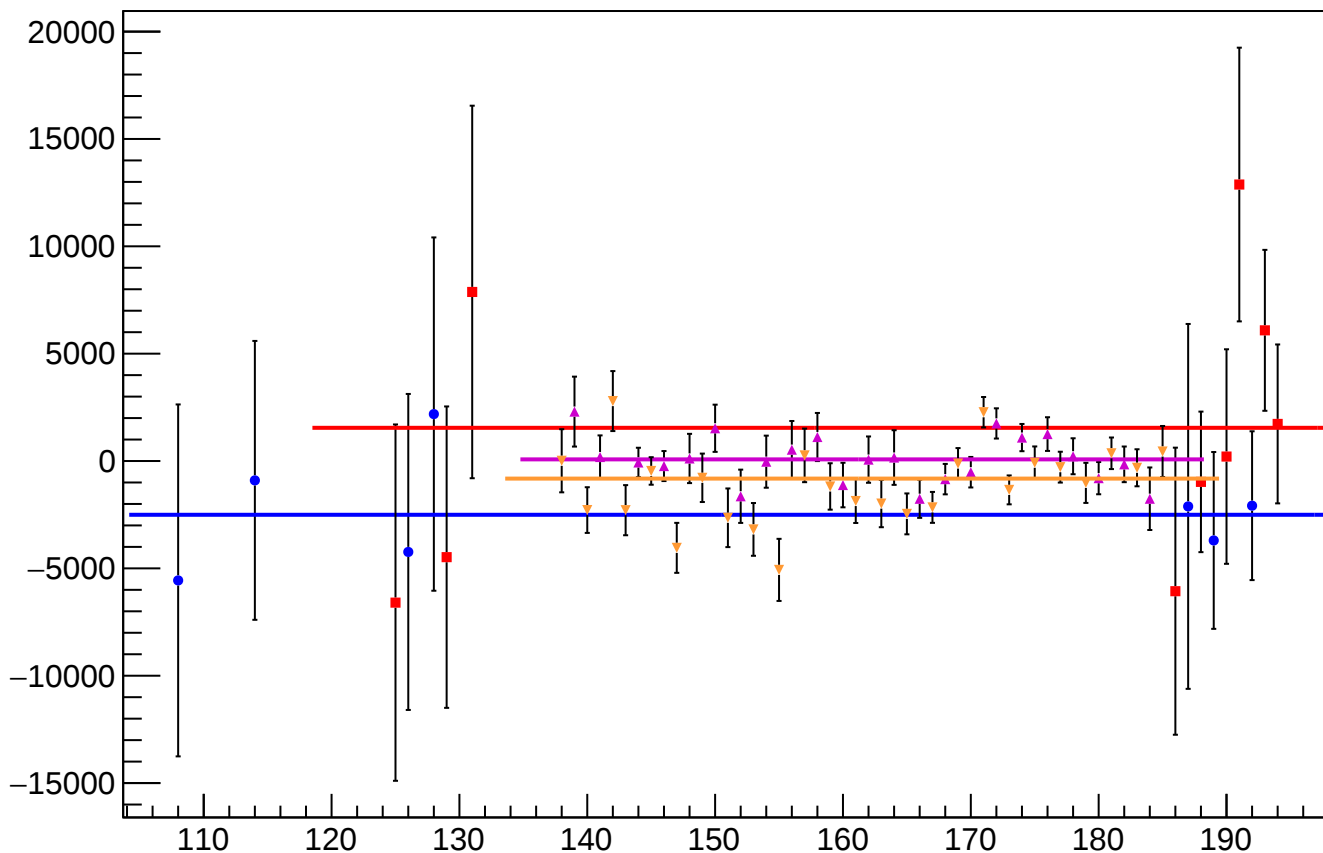
Right: 116.484 $\pm$ 0.021 χ^2 /NDF: 6285814.2/44

In: 94.492 $\pm$ 0.014 χ^2 /NDF:3520794.1/42

Out: 95.035 $\pm$ 0.013 χ^2 /NDF:6034205.9/49

All: 94.773 $\pm$ 0.010 χ^2 /NDF: 9555799.1/92

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2504.361 $\pm$ 2094.608 χ^2 /NDF: 0.7/6

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 1546.443 $\pm$ 1637.956 χ^2 /NDF: 8.8/8

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

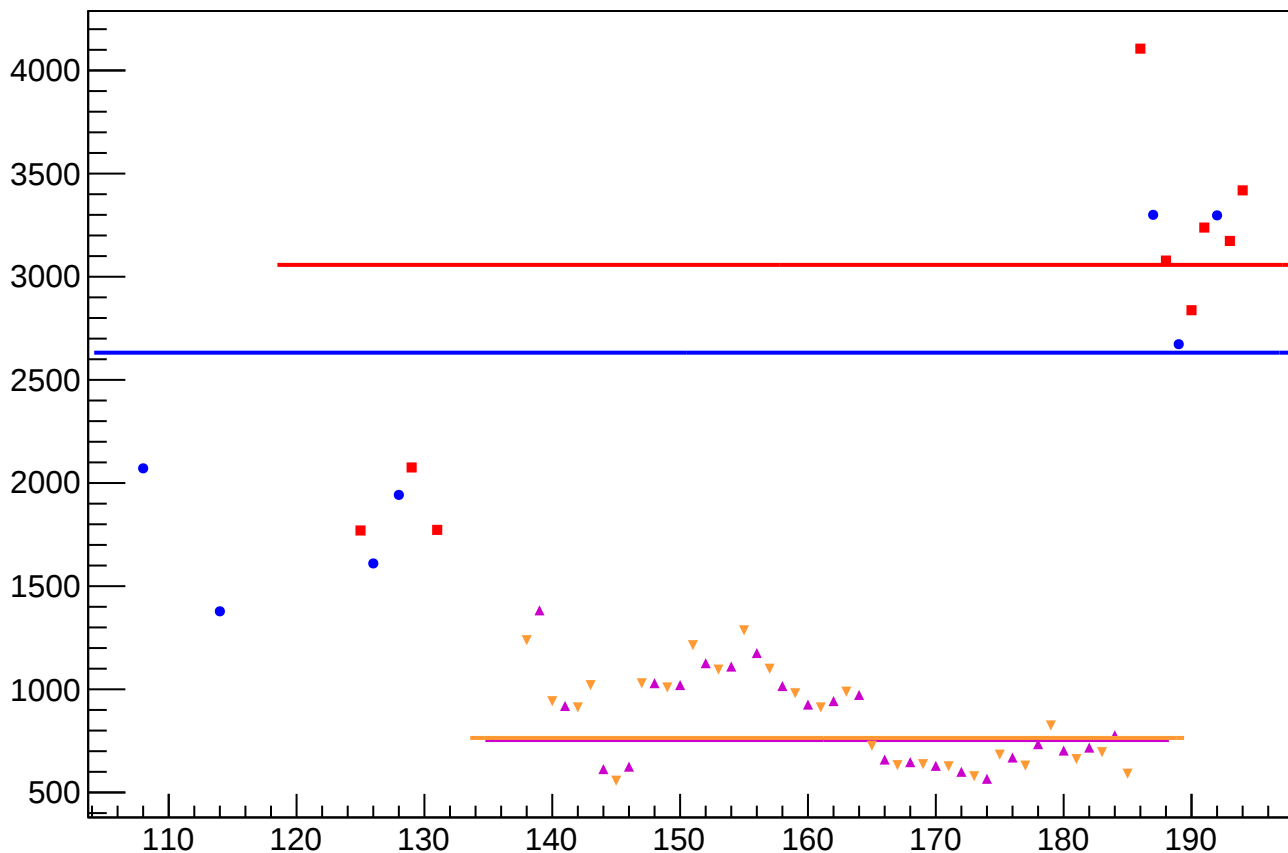
Right: 9.318 $\pm$ 1290.288 χ^2 /NDF: 11.8/15

In: 55.874 $\pm$ 185.914 χ^2 /NDF:30.5/29

Out: -789.253 $\pm$ 183.305 χ^2 /NDF:79.1/33

All: -372.661 $\pm$ 130.529 χ^2 /NDF: 120.0/63

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2631.849+/-1.481 χ^2 /NDF: 222849.2/6

Left Out: 764.280+/-0.130 χ^2 /NDF: 2315985.8/24

Right Out: 3057.462+/-1.158 χ^2 /NDF: 206851.7/8

Left In: 754.027+/-0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214+/-0.093 χ^2 /NDF: 4332425.4/47

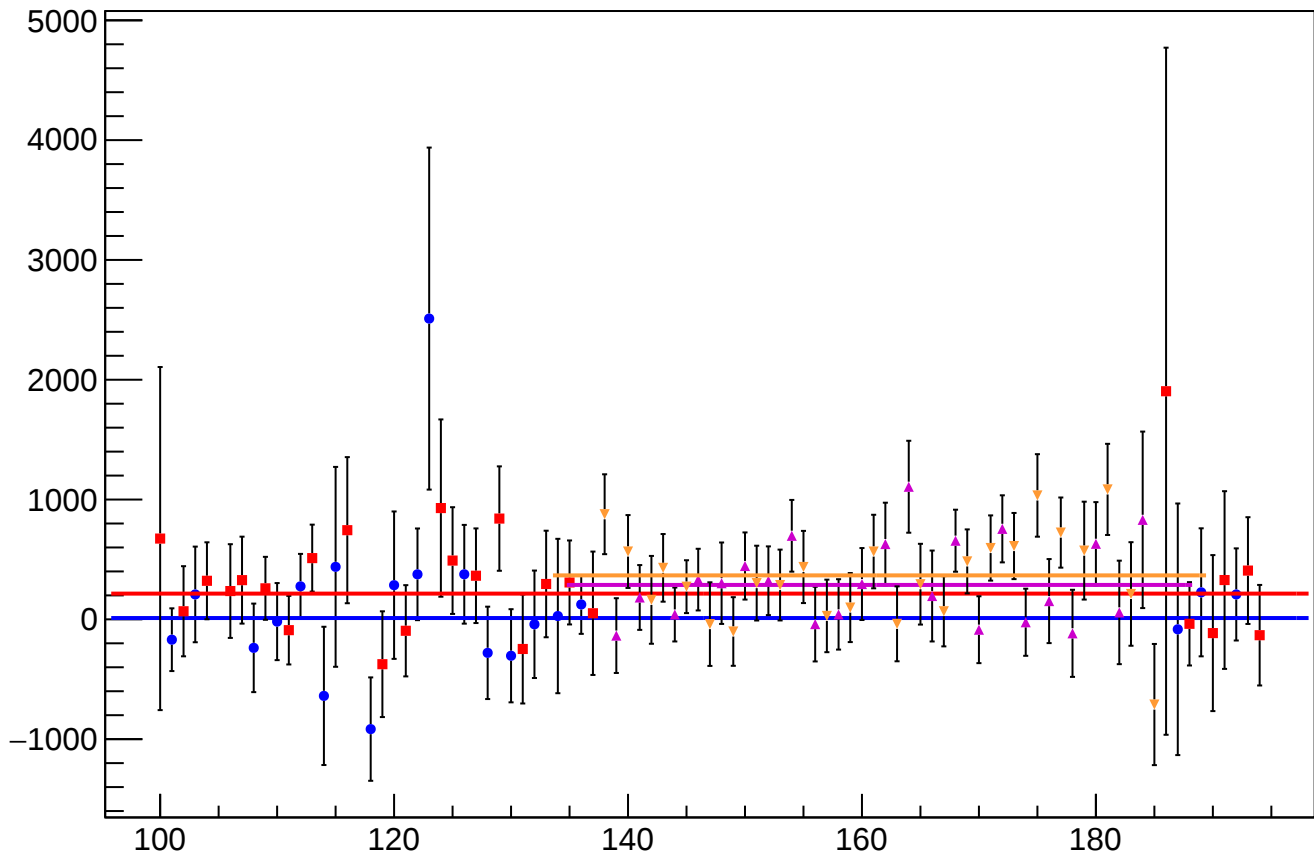
Right: 2895.959+/-0.912 χ^2 /NDF: 480942.6/15

In: 768.820+/-0.131 χ^2 /NDF: 3831008.2/29

Out: 793.000+/-0.130 χ^2 /NDF: 6393893.6/33

All: 781.081+/-0.092 χ^2 /NDF: 10242055.4/63

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 10.968 $\pm$ 89.209 χ^2 /NDF: 15.1/19

Left Out: 367.028 $\pm$ 61.943 χ^2 /NDF:28.2/24

Right Out: 214.831 $\pm$ 81.862 χ^2 /NDF: 12.7/24

Left In: 287.246 $\pm$ 64.141 χ^2 /NDF:23.9/22

Left: 328.527 $\pm$ 44.557 χ^2 /NDF: 52.9/47

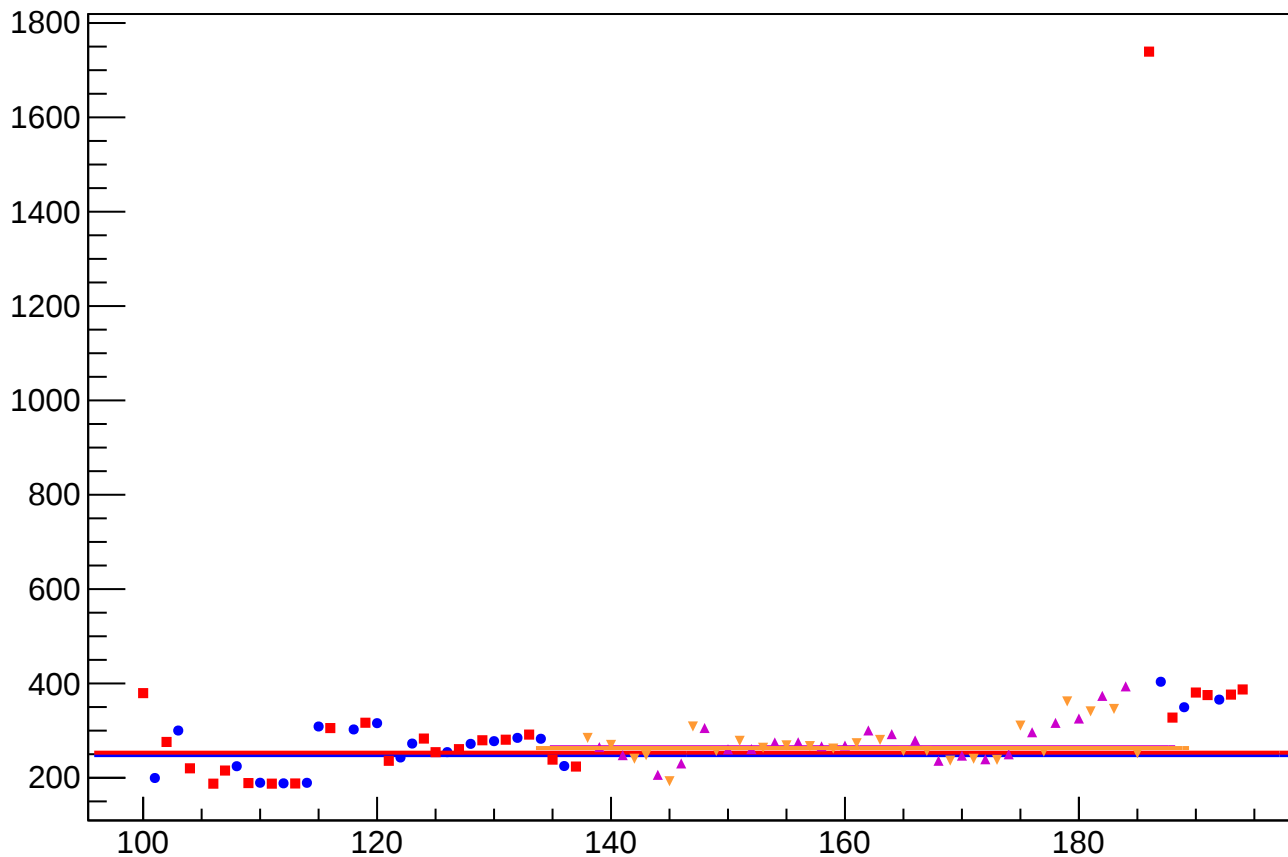
Right: 121.639 $\pm$ 60.315 χ^2 /NDF: 30.7/44

In: 193.095 $\pm$ 52.077 χ^2 /NDF:45.3/42

Out: 311.613 $\pm$ 49.396 χ^2 /NDF:43.2/49

All: 255.484 $\pm$ 35.839 χ^2 /NDF: 91.2/92

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 248.046 $\pm$ 0.063 χ^2 /NDF: 722860.4/19

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 253.284 $\pm$ 0.058 χ^2 /NDF: 1676718.3/24

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

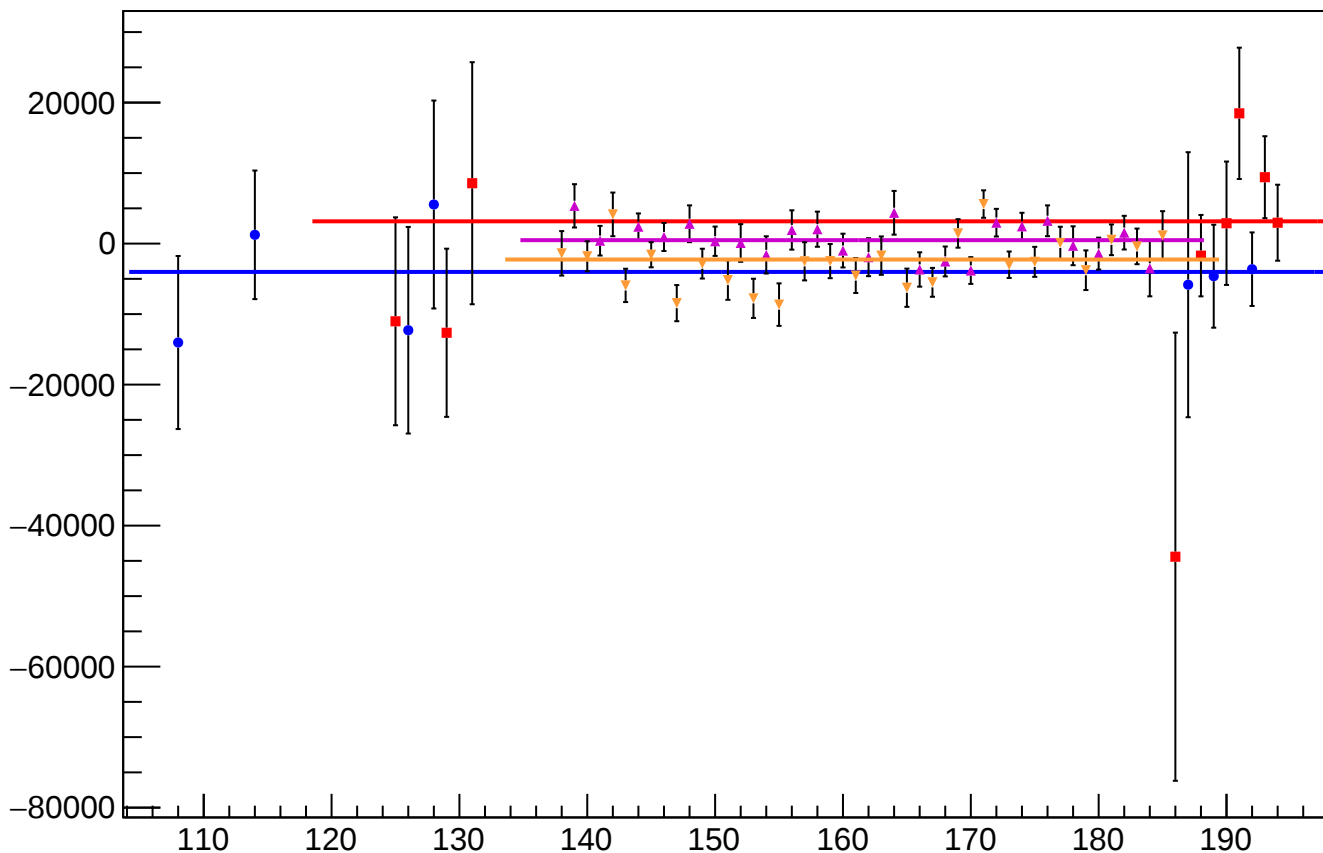
Right: 250.889 $\pm$ 0.043 χ^2 /NDF: 2403321.9/44

In: 259.172 $\pm$ 0.037 χ^2 /NDF: 1379074.3/42

Out: 259.528 $\pm$ 0.035 χ^2 /NDF: 2337241.8/49

All: 259.359 $\pm$ 0.025 χ^2 /NDF: 3716365.3/92

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4017.947 $\pm$ 3404.787 χ^2/NDF : 1.8/6

Left Out: -2260.196 $\pm$ 475.336 χ^2/NDF : 52.3/24

Right Out: 3159.910 $\pm$ 2725.280 χ^2/NDF : 9.6/8

Left In: 485.590 $\pm$ 487.465 χ^2/NDF : 24.8/22

Left: -921.890 $\pm$ 340.321 χ^2/NDF : 93.4/47

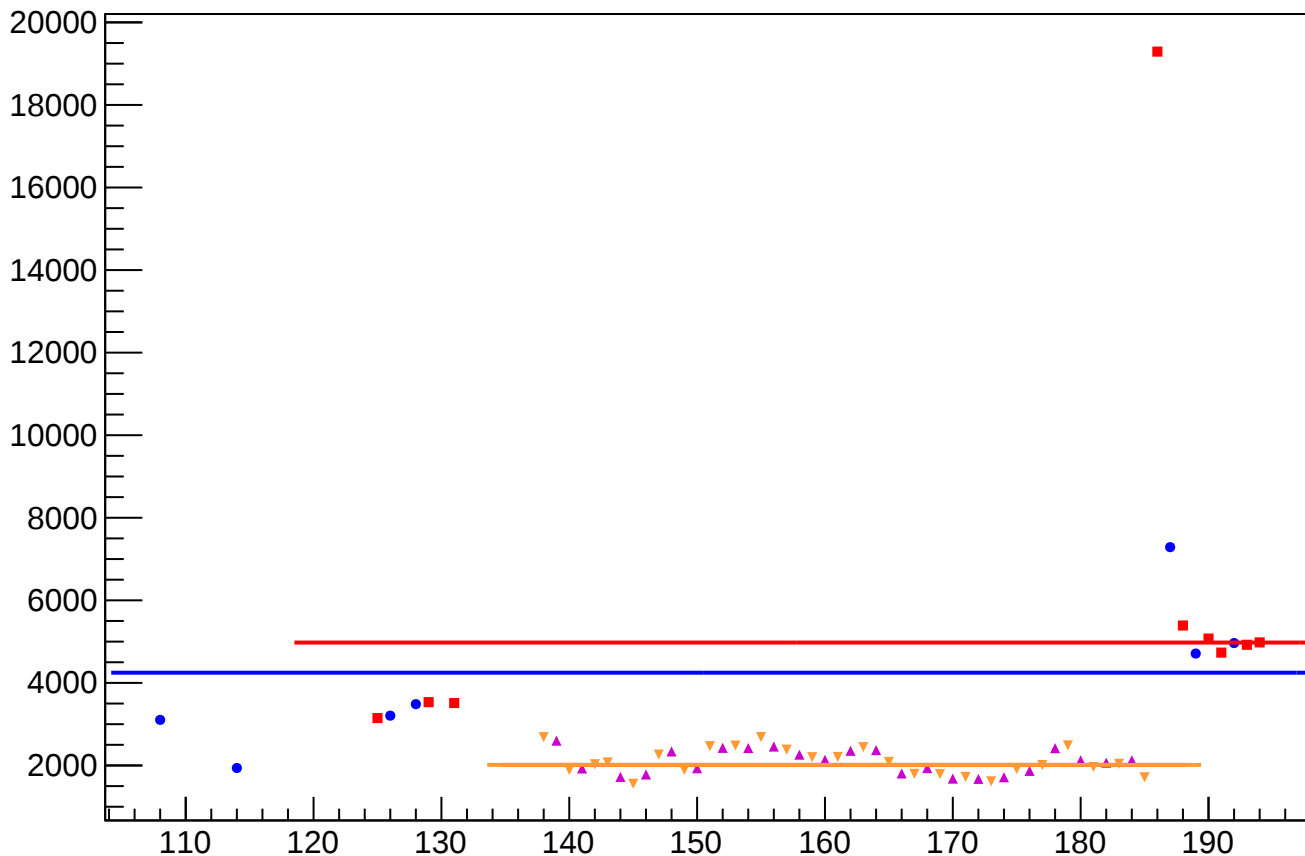
Right: 356.976 $\pm$ 2127.644 χ^2/NDF : 14.1/15

In: 395.131 $\pm$ 482.545 χ^2/NDF : 28.2/29

Out: -2100.177 $\pm$ 468.266 χ^2/NDF : 65.8/33

All: -889.987 $\pm$ 336.049 χ^2/NDF : 107.8/63

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4247.012+/-2.408 χ^2 /NDF: 259241.8/6

Left Out: 2014.106+/-0.336 χ^2 /NDF: 835656.9/24

Right Out: 4977.455+/-1.927 χ^2 /NDF: 492399.9/8

Left In: 2013.245+/-0.345 χ^2 /NDF: 662077.8/22

Left: 2013.686+/-0.241 χ^2 /NDF: 1497737.9/47

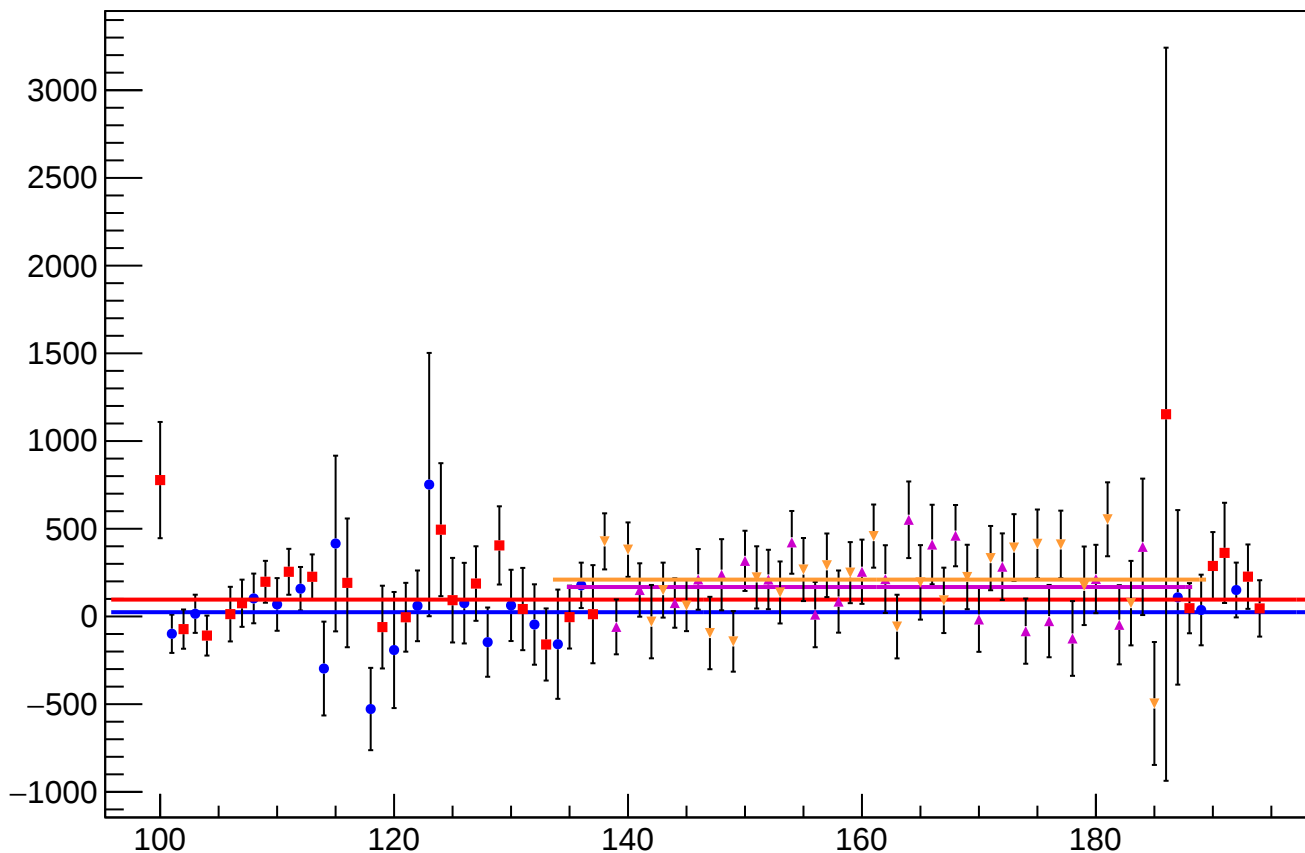
Right: 4692.219+/-1.504 χ^2 /NDF: 807746.2/15

In: 2058.113+/-0.341 χ^2 /NDF: 1764875.2/29

Out: 2101.593+/-0.331 χ^2 /NDF: 3622929.2/33

All: 2080.506+/-0.238 χ^2 /NDF: 5396167.4/63

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 24.329 $\pm$ 39.939 χ^2 /NDF: 15.2/19

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF: 27.5/24

Right Out: 96.105 $\pm$ 35.077 χ^2 /NDF: 22.1/24

Left In: 167.822 $\pm$ 38.718 χ^2 /NDF: 21.1/22

Left: 189.859 $\pm$ 26.785 χ^2 /NDF: 49.3/47

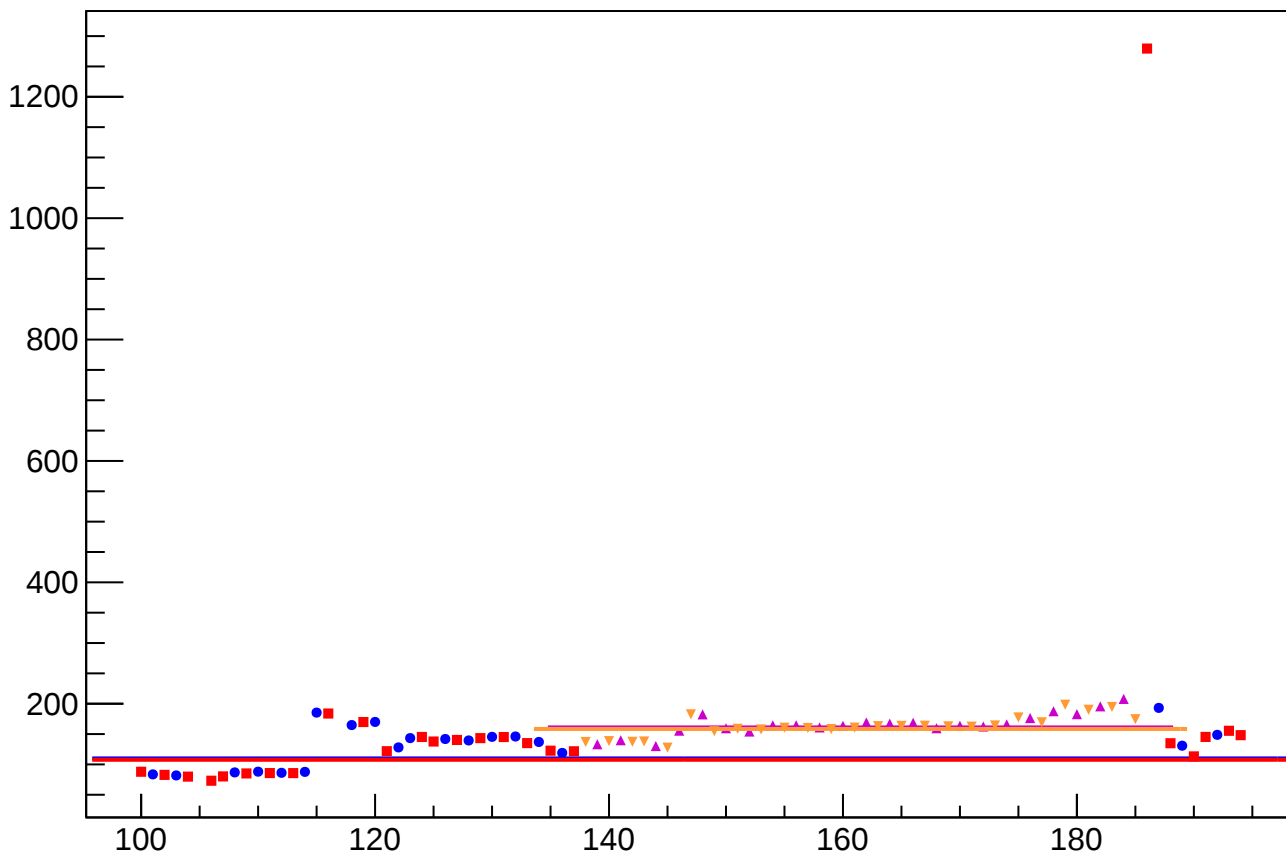
Right: 64.850 $\pm$ 26.355 χ^2 /NDF: 39.1/44

In: 98.303 $\pm$ 27.799 χ^2 /NDF: 43.0/42

Out: 149.913 $\pm$ 25.486 χ^2 /NDF: 54.6/49

All: 126.344 $\pm$ 18.786 χ^2 /NDF: 99.4/92

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 109.862 $\pm$ 0.028 χ^2 /NDF: 1093386.3/19

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 107.621 $\pm$ 0.025 χ^2 /NDF: 2084211.7/24

Left In: 160.947 $\pm$ 0.027 χ^2 /NDF: 379713.4/22

Left: 159.640 $\pm$ 0.019 χ^2 /NDF: 818385.9/47

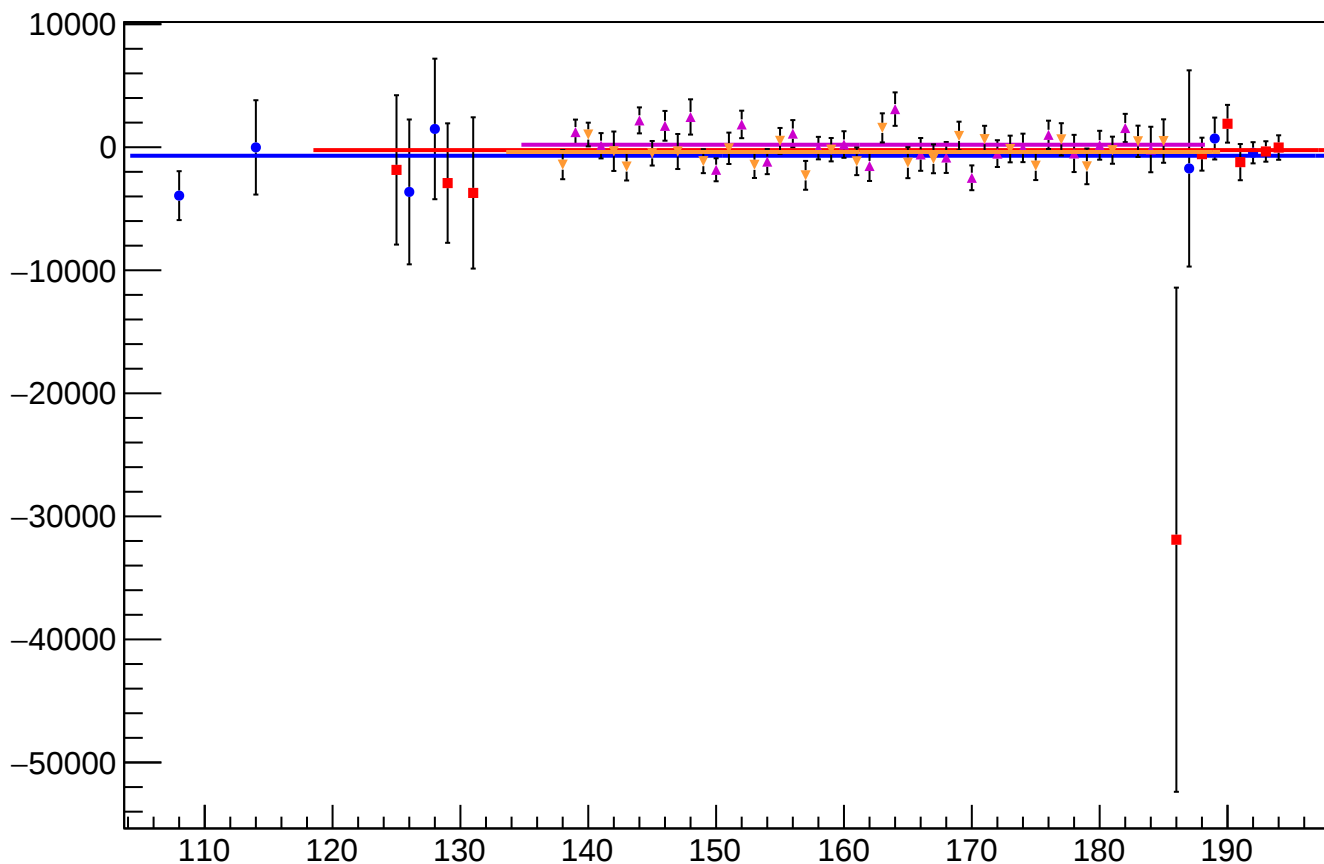
Right: 108.597 $\pm$ 0.019 χ^2 /NDF: 3181151.7/44

In: 136.198 $\pm$ 0.020 χ^2 /NDF: 3159922.2/42

Out: 131.612 $\pm$ 0.018 χ^2 /NDF: 4500291.4/49

All: 133.706 $\pm$ 0.013 χ^2 /NDF: 7689784.5/92

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -692.630+/-691.607 χ^2/NDF : 3.9/6

Left Out: -385.018+/-231.833 χ^2/NDF :18.1/24

Right Out: -234.007 ± 499.753 χ^2/NDF : 5.6/8

Left In: 202.234+/-237.460 χ^2/NDF :35.5/22

Left: -98.432 ± 165.884 χ^2/NDF : 56.7/47

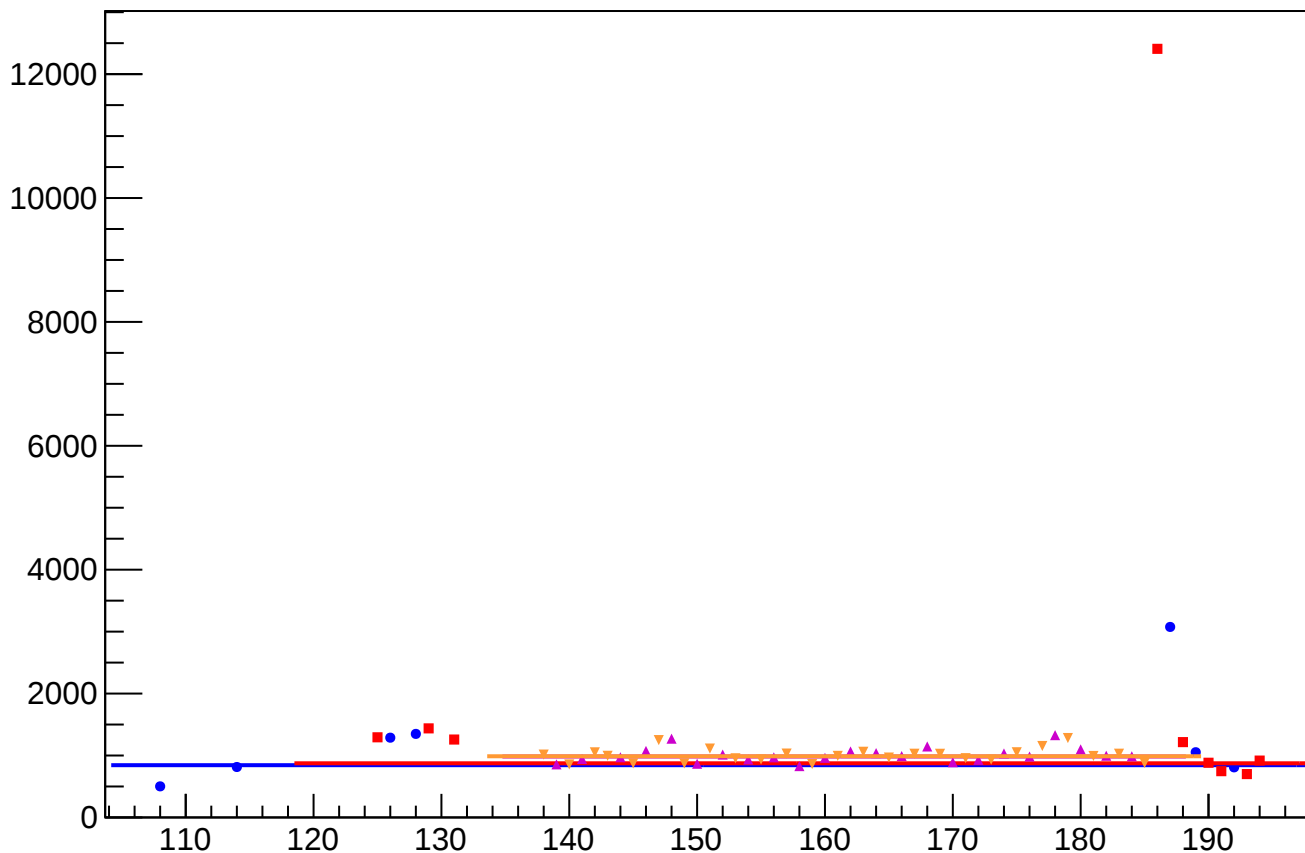
Right: -391.330 ± 405.067 χ^2/NDF : 9.7/15

In: 107.867+/-224.590 χ^2/NDF :40.8/29

Out: -358.276+/-210.306 χ^2/NDF :23.7/33

All: -140.499 ± 153.510 χ^2/NDF : 66.9/63

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 843.821+/-0.489 χ^2/NDF : 276509.4/6

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 874.472+/-0.353 χ^2/NDF : 915479.7/8

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

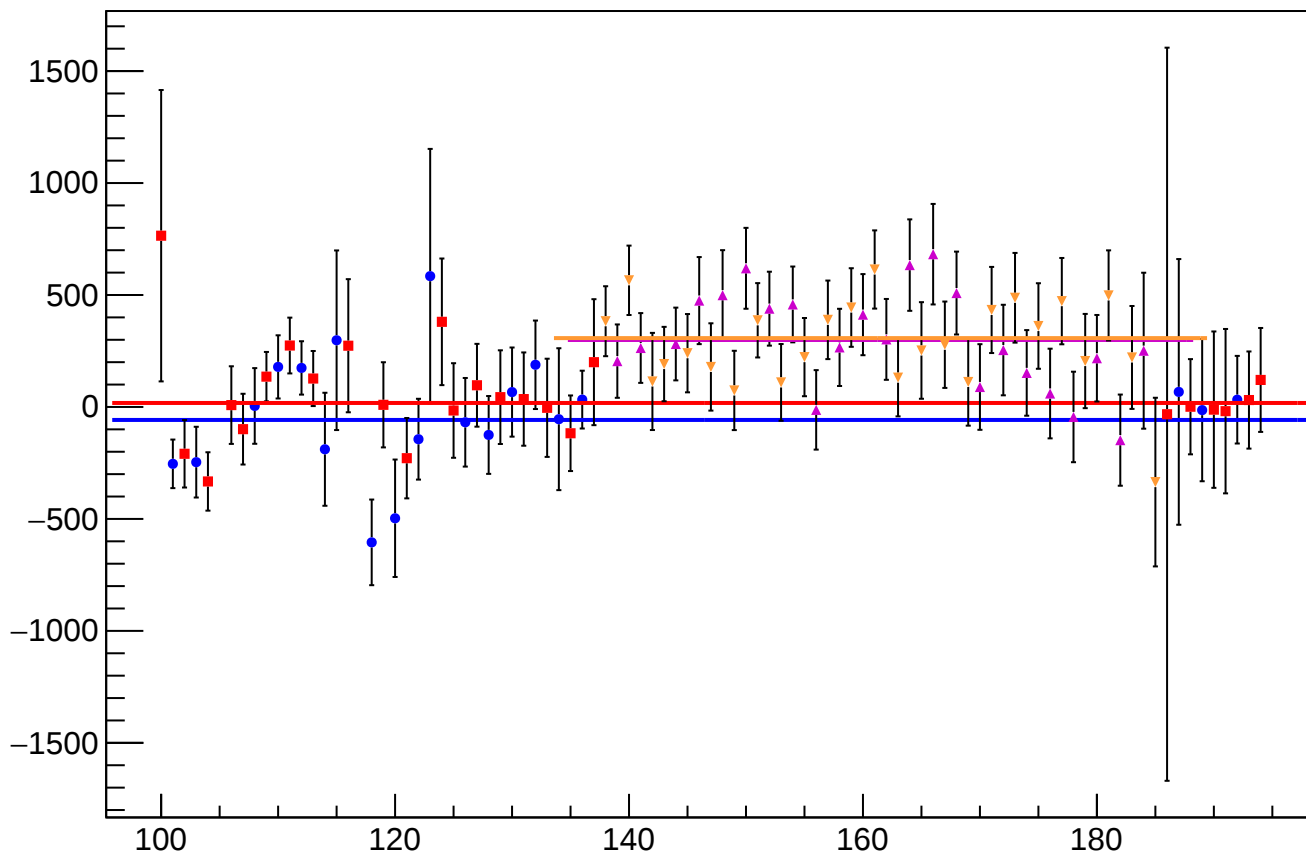
Right: 863.958+/-0.286 χ^2/NDF : 1194569.8/15

In: 969.122+/-0.159 χ^2/NDF : 766161.9/29

Out: 967.788+/-0.149 χ^2/NDF : 1377174.9/33

All: 968.411+/-0.109 χ^2/NDF : 2143374.4/63

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -57.976 ± 40.934 $\chi^2/\text{NDF}: 27.9/19$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: 17.857 ± 37.324 $\chi^2/\text{NDF}: 23.3/24$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

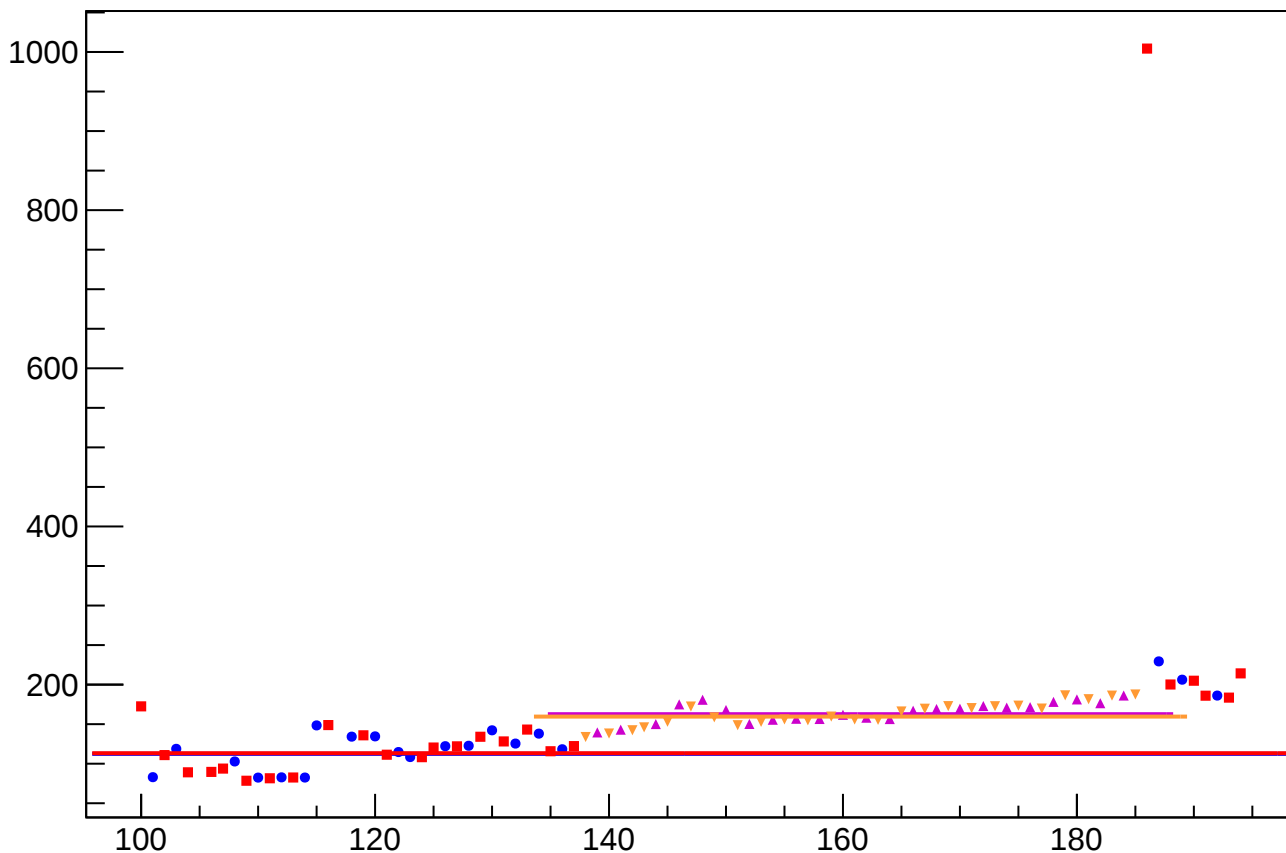
Right: -16.569 ± 27.580 $\chi^2/\text{NDF}: 53.1/44$

In: 129.205 ± 28.240 $\chi^2/\text{NDF}: 96.3/42$

Out: 162.853 ± 26.376 $\chi^2/\text{NDF}: 74.2/49$

All: 147.176 ± 19.276 $\chi^2/\text{NDF}: 171.2/92$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 112.445 $\pm$ 0.029 χ^2 /NDF: 1075365.0/19

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 113.258 $\pm$ 0.026 χ^2 /NDF: 2471930.8/24

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF: 199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

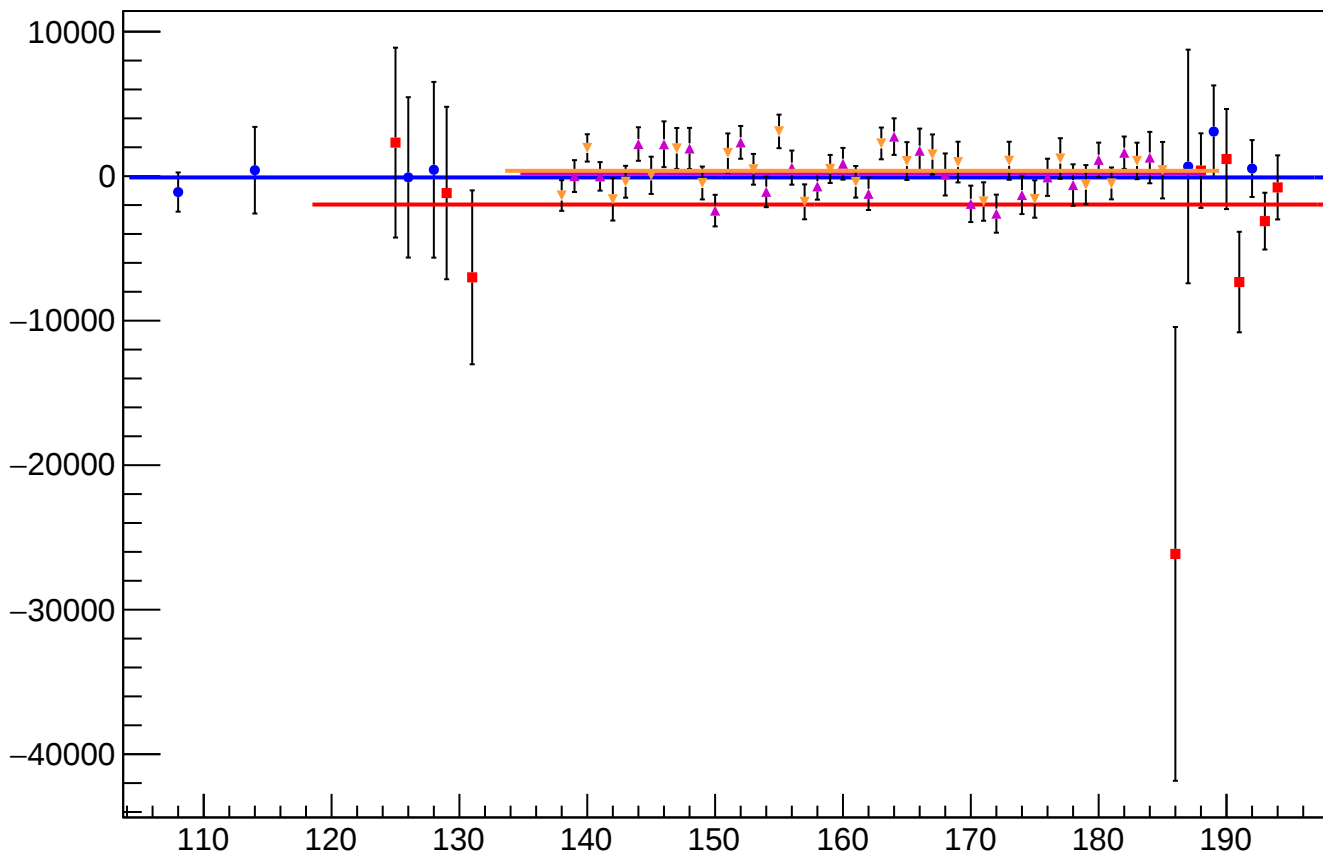
Right: 112.889 $\pm$ 0.020 χ^2 /NDF: 3547726.1/44

In: 138.733 $\pm$ 0.020 χ^2 /NDF: 2848829.7/42

Out: 136.442 $\pm$ 0.019 χ^2 /NDF: 4301112.7/49

All: 137.509 $\pm$ 0.014 χ^2 /NDF: 7156973.4/92

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: -86.985 ± 959.754 χ^2/NDF : 1.7/6

Left Out: 370.001 ± 243.521 χ^2/NDF : 30.5/24

Right Out: -1962.805 ± 1077.374 χ^2/NDF : 8.2/8

Left In: 183.107 ± 252.258 χ^2/NDF : 36.5/22

Left: 279.847 ± 175.203 χ^2/NDF : 67.2/47

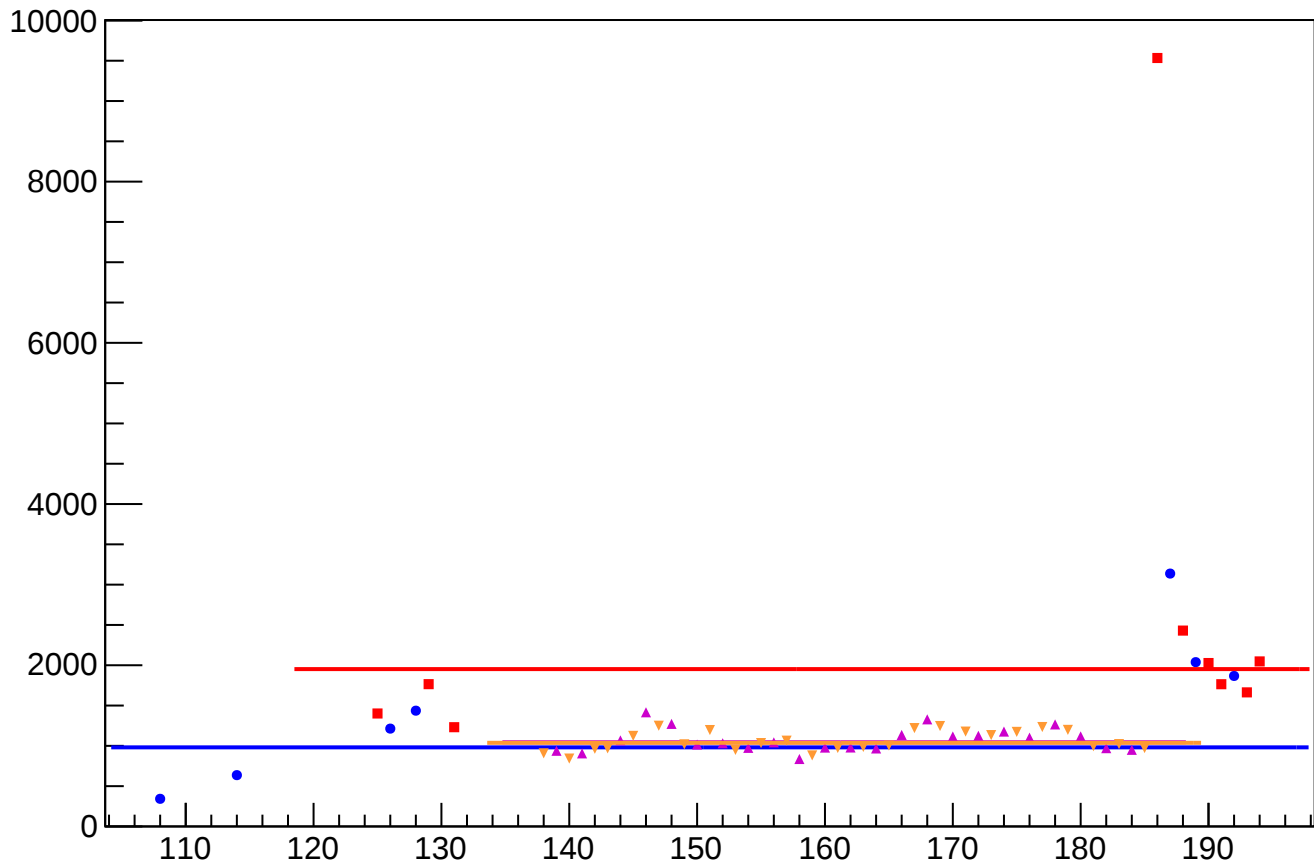
Right: -916.948 ± 716.639 χ^2/NDF : 11.6/15

In: 165.654 ± 243.972 χ^2/NDF : 38.2/29

Out: 256.610 ± 237.528 χ^2/NDF : 43.1/33

All: 212.349 ± 170.190 χ^2/NDF : 81.4/63

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 981.333 ± 0.679 χ^2/NDF : 1250521.5/6

Left Out: 1037.689 ± 0.172 χ^2/NDF : 494981.4/24

Right Out: 1952.247 ± 0.762 χ^2/NDF : 633326.2/8

Left In: 1044.746 ± 0.178 χ^2/NDF : 543315.5/22

Left: 1041.093 ± 0.124 χ^2/NDF : 1039107.0/47

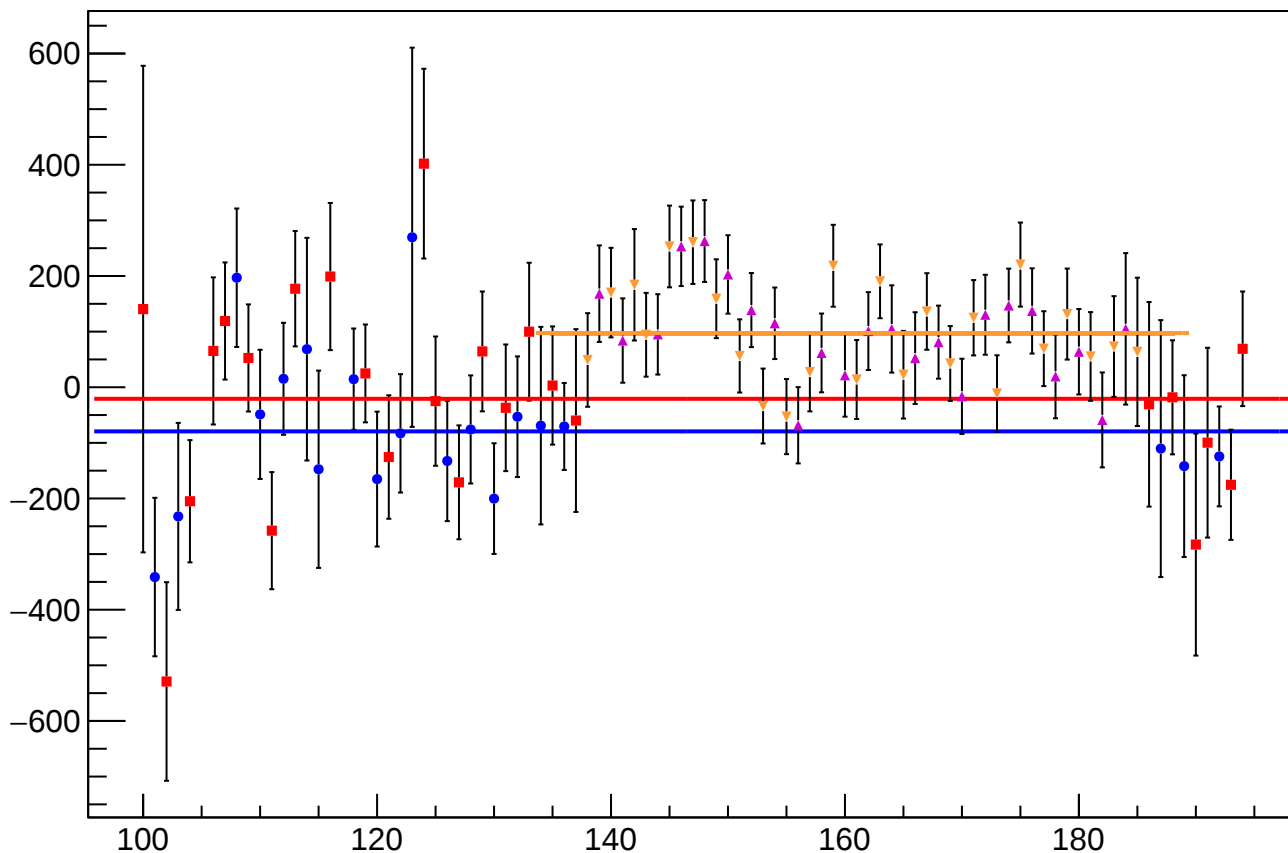
Right: 1410.917 ± 0.507 χ^2/NDF : 2789453.1/15

In: 1040.648 ± 0.173 χ^2/NDF : 1802003.8/29

Out: 1082.143 ± 0.168 χ^2/NDF : 2499437.2/33

All: 1061.951 ± 0.120 χ^2/NDF : 4331142.6/63

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -79.417 ± 26.565 χ^2/NDF : 15.6/19

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -20.803 ± 23.815 χ^2/NDF : 41.6/24

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

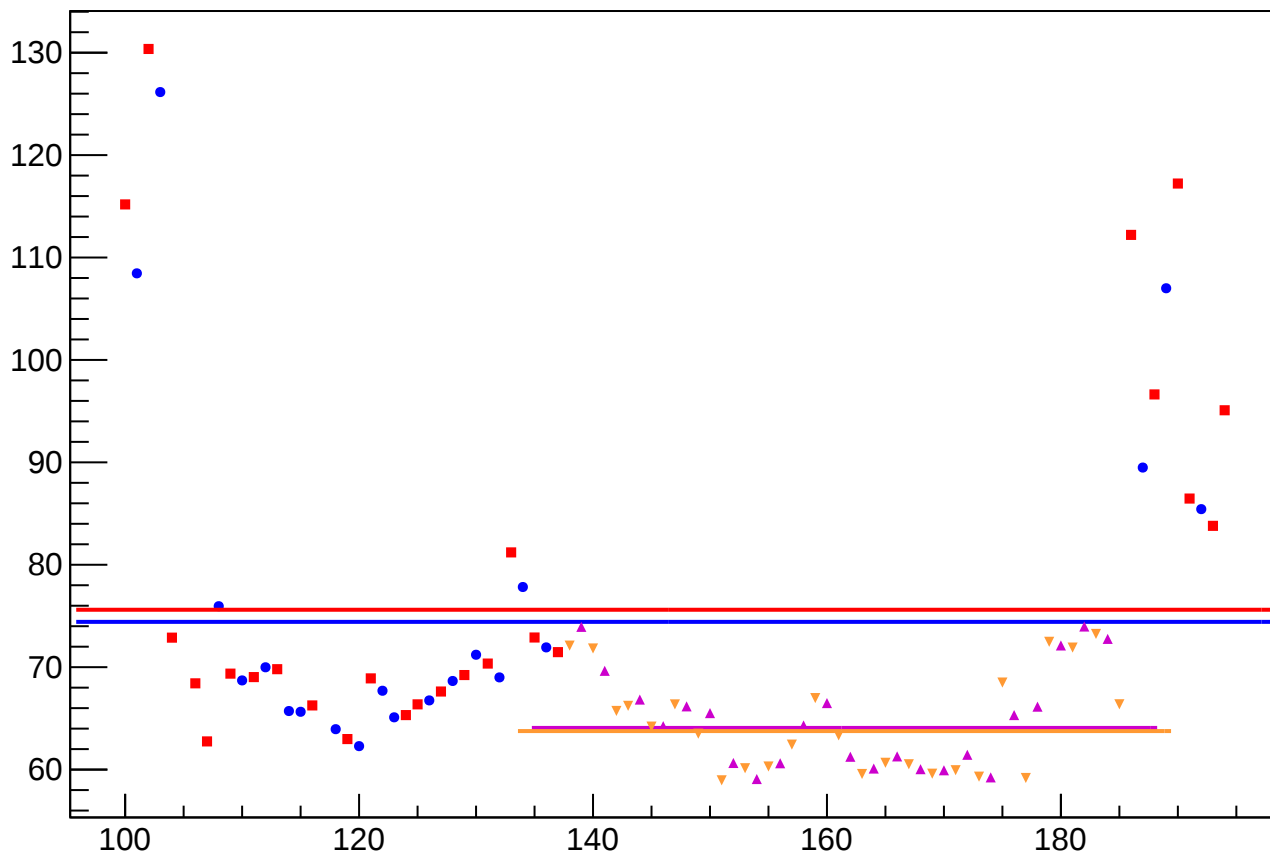
Right: -46.920 ± 17.732 χ^2/NDF : 59.9/44

In: 52.535 ± 13.303 χ^2/NDF : 77.7/42

Out: 64.244 ± 12.619 χ^2/NDF : 95.3/49

All: 58.699 ± 9.155 χ^2/NDF : 173.5/92

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 74.425+/-0.019 χ^2/NDF : 522111.6/19

Left Out: 63.761+/-0.011 χ^2/NDF : 192803.8/24

Right Out: 75.607+/-0.017 χ^2/NDF : 715794.6/24

Left In: 64.069+/-0.011 χ^2/NDF : 164660.4/22

Left: 63.910+/-0.008 χ^2/NDF : 357877.2/47

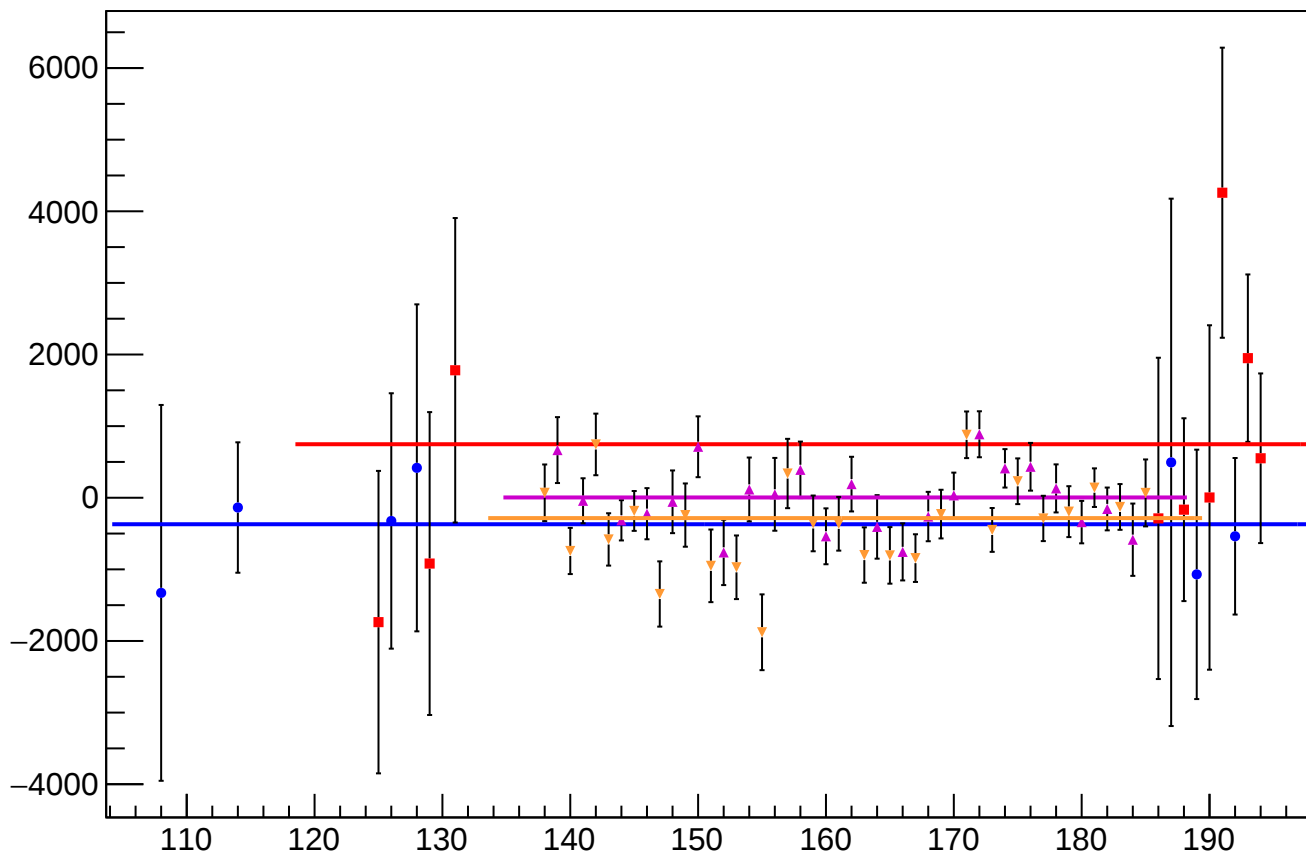
Right: 75.080+/-0.013 χ^2/NDF : 1240103.7/44

In: 66.666+/-0.009 χ^2/NDF : 914498.3/42

Out: 67.087+/-0.009 χ^2/NDF : 1264514.4/49

All: 66.888+/-0.006 χ^2/NDF : 2180069.6/92

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -369.942 ± 568.106 $\chi^2/\text{NDF}: 0.6/6$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 747.325 ± 546.917 $\chi^2/\text{NDF}: 7.2/8$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

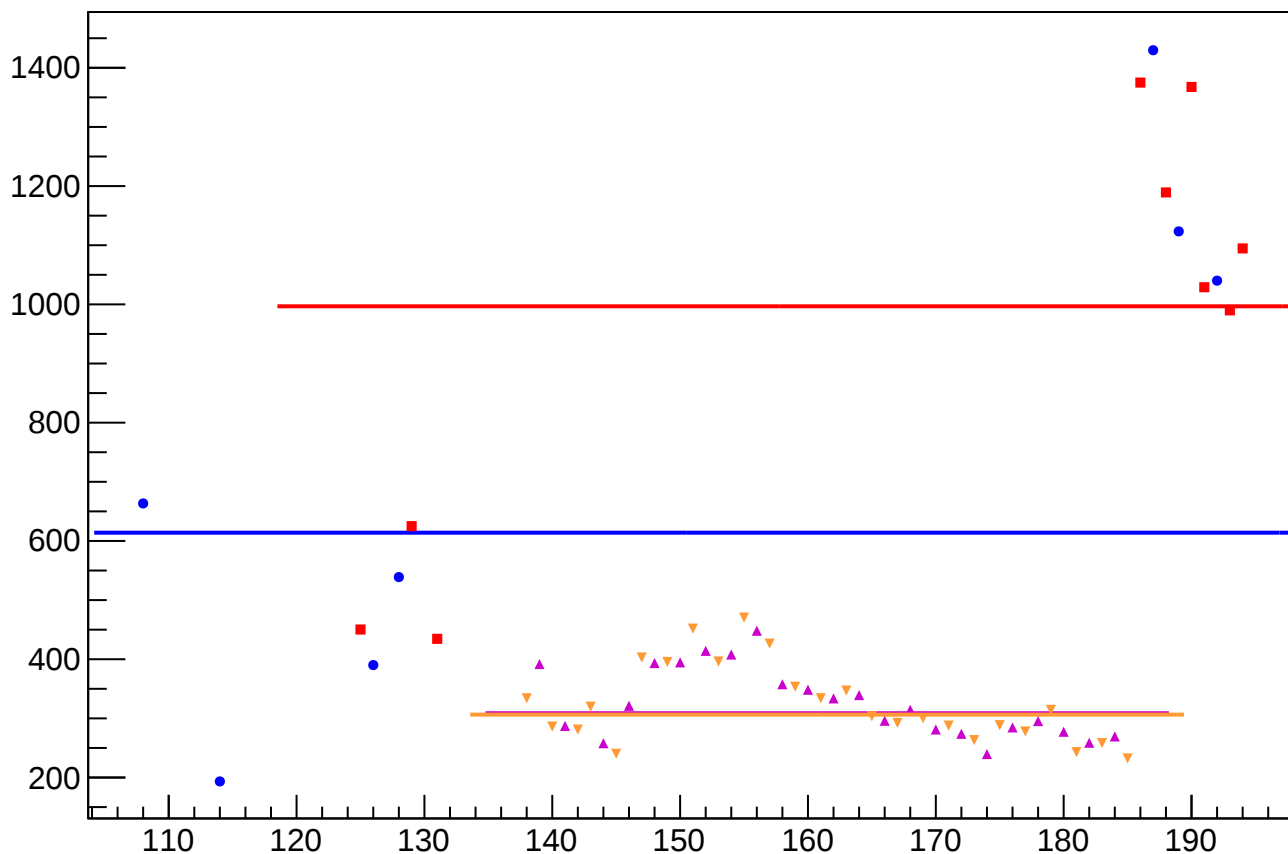
Right: 209.915 ± 394.007 $\chi^2/\text{NDF}: 9.7/15$

In: -2.384 ± 74.437 $\chi^2/\text{NDF}: 33.3/29$

Out: -266.376 ± 72.098 $\chi^2/\text{NDF}: 65.7/33$

All: -138.593 ± 51.788 $\chi^2/\text{NDF}: 105.5/63$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 613.972+/-0.402 χ^2/NDF : 1034442.9/6

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 996.733+/-0.387 χ^2/NDF : 499815.2/8

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

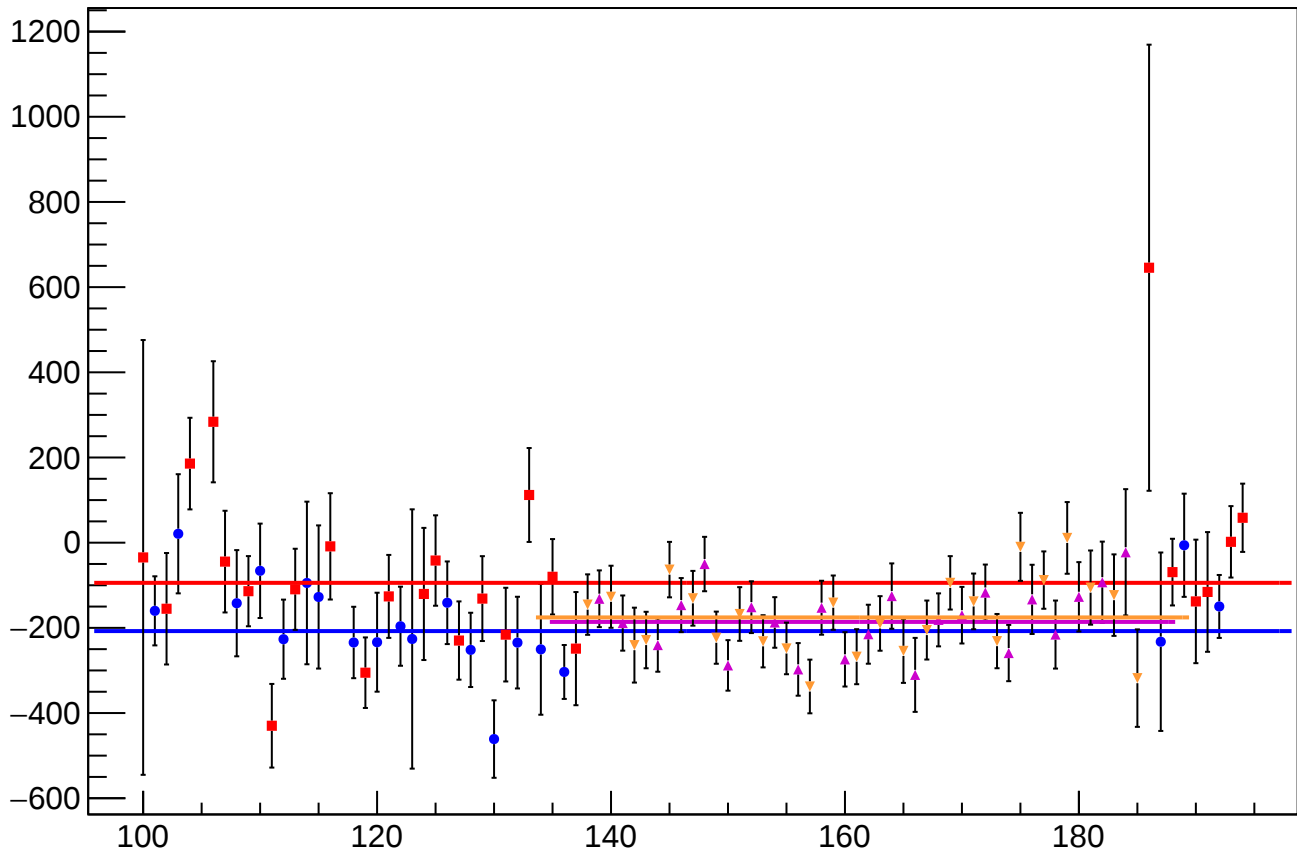
Right: 812.623+/-0.279 χ^2/NDF : 2005443.1/15

In: 313.967+/-0.053 χ^2/NDF : 2604868.3/29

Out: 318.360+/-0.051 χ^2/NDF : 4846878.1/33

All: 316.234+/-0.037 χ^2/NDF : 7455340.7/63

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -207.572 ± 23.053 $\chi^2/\text{NDF}: 20.0/19$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -94.292 ± 21.288 $\chi^2/\text{NDF}: 48.9/24$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

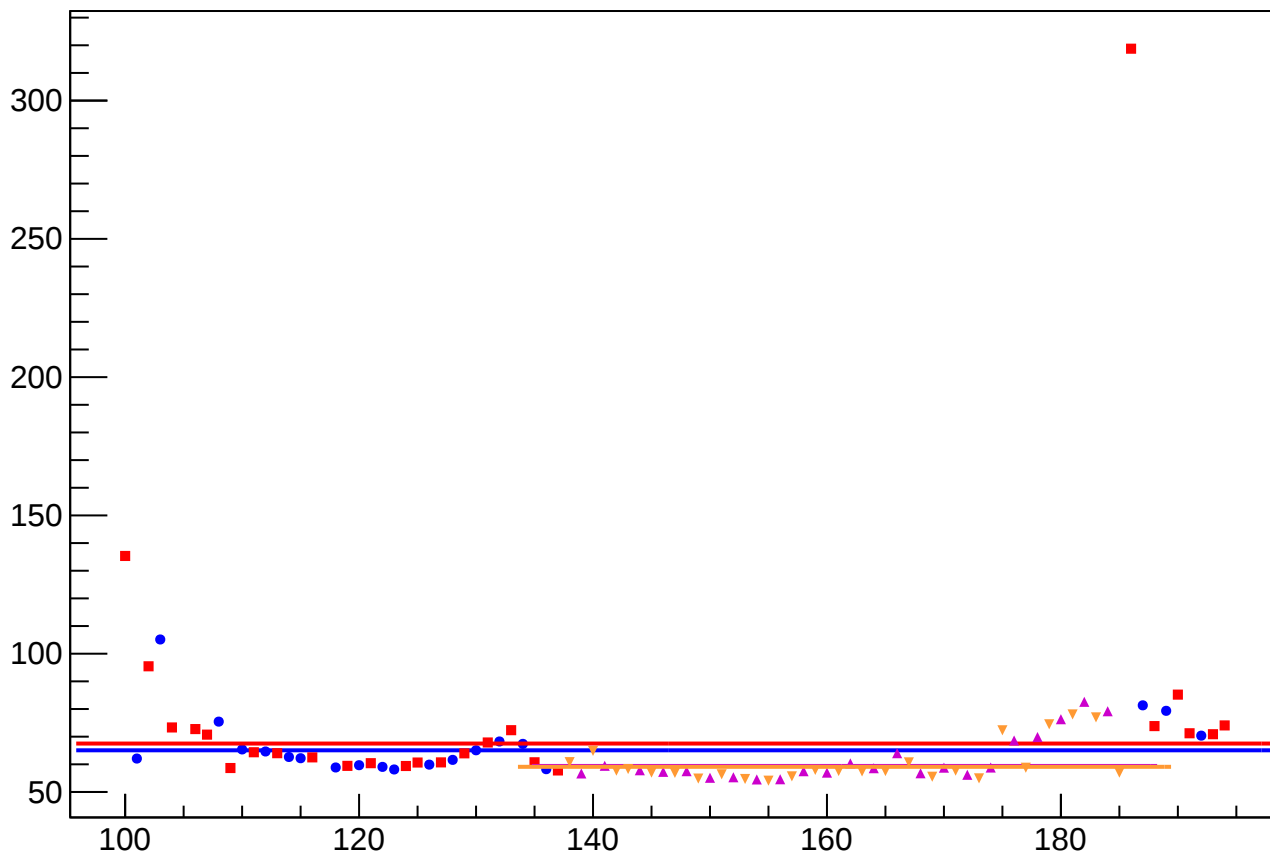
Right: -146.430 ± 15.640 $\chi^2/\text{NDF}: 82.0/44$

In: -192.038 ± 12.161 $\chi^2/\text{NDF}: 44.2/42$

Out: -151.339 ± 11.607 $\chi^2/\text{NDF}: 93.8/49$

All: -170.739 ± 8.396 $\chi^2/\text{NDF}: 143.9/92$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 65.068 $\pm$ 0.016 χ^2 /NDF: 290688.3/19

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 67.511 $\pm$ 0.015 χ^2 /NDF: 771875.3/24

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

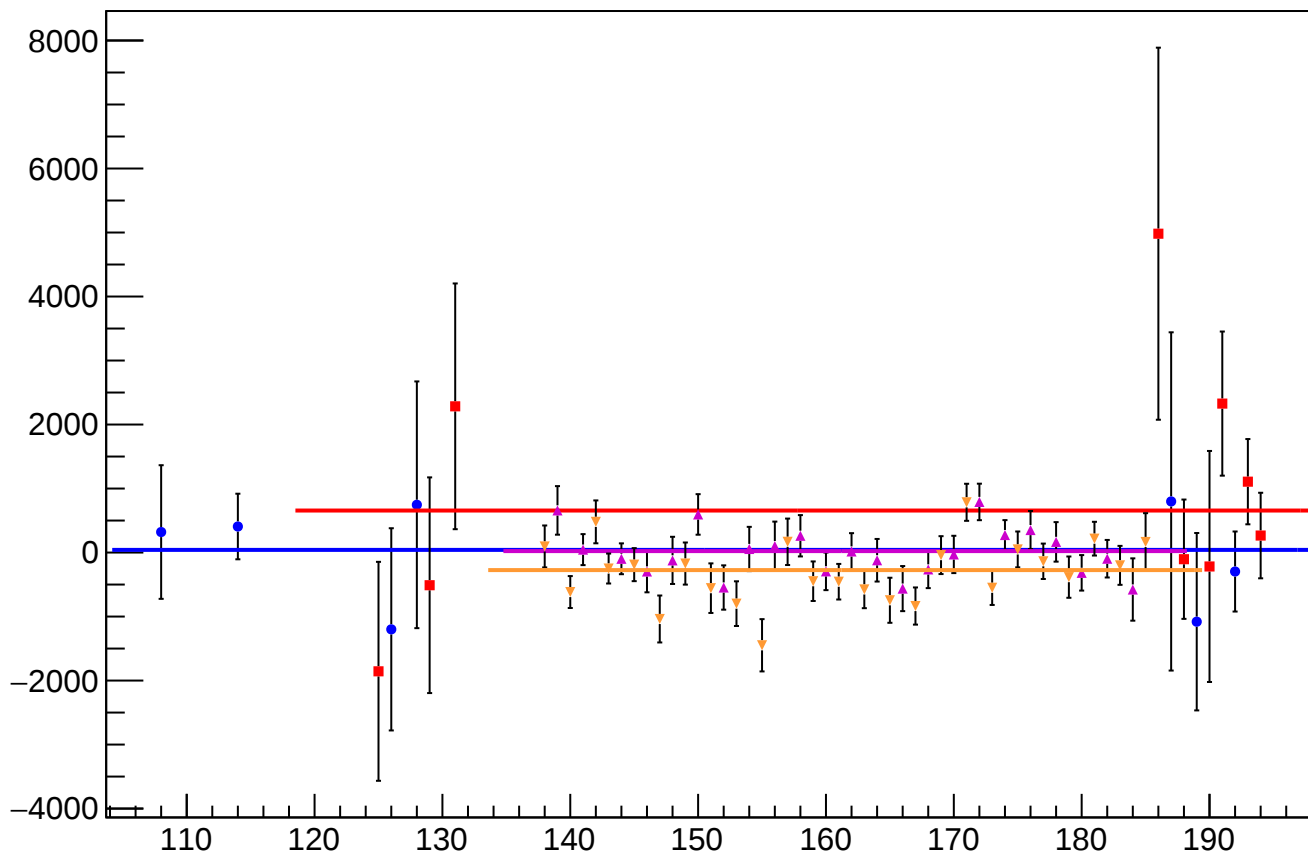
Right: 66.387 $\pm$ 0.011 χ^2 /NDF: 1074684.2/44

In: 60.985 $\pm$ 0.009 χ^2 /NDF: 750681.1/42

Out: 61.600 $\pm$ 0.008 χ^2 /NDF: 1361098.2/49

All: 61.307 $\pm$ 0.006 χ^2 /NDF: 2114455.7/92

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: 41.581 ± 340.629 $\chi^2/\text{NDF}: 2.4/6$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 656.477 ± 357.511 $\chi^2/\text{NDF}: 9.5/8$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

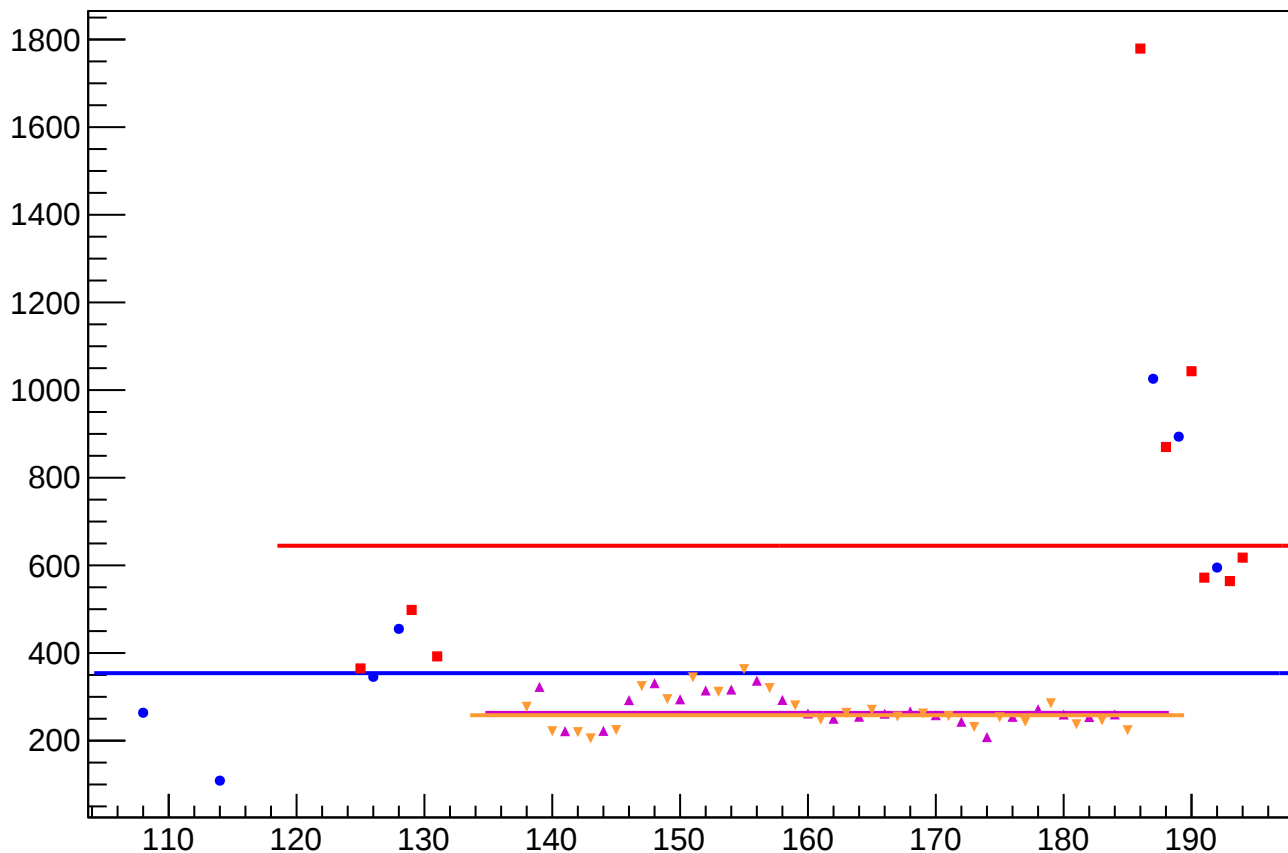
Right: 334.168 ± 246.613 $\chi^2/\text{NDF}: 13.4/15$

In: 23.270 ± 62.560 $\chi^2/\text{NDF}: 31.3/29$

Out: -247.934 ± 59.939 $\chi^2/\text{NDF}: 70.0/33$

All: -118.134 ± 43.280 $\chi^2/\text{NDF}: 111.0/63$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 354.026+/-0.241 χ^2/NDF : 1208291.4/6

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 644.815+/-0.253 χ^2/NDF : 663317.1/8

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

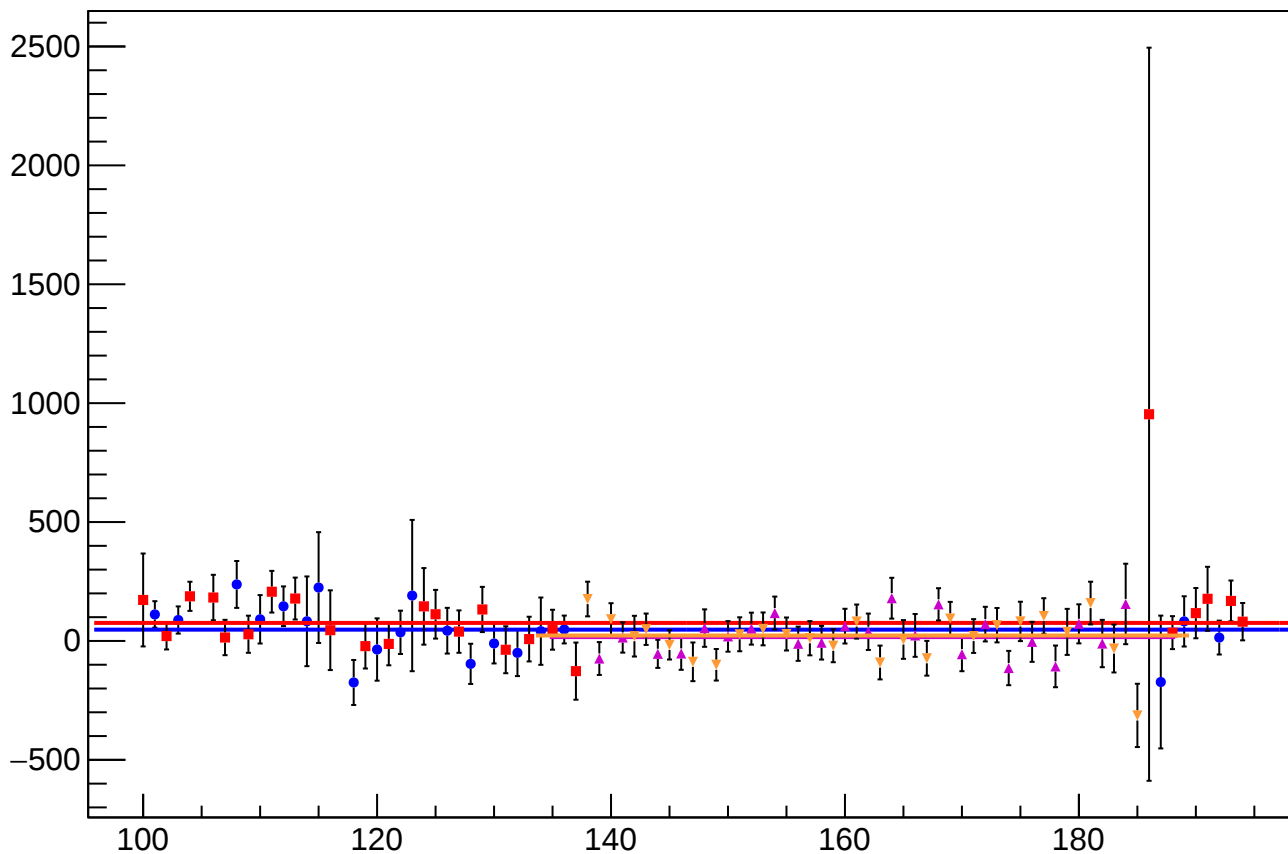
Right: 492.393+/-0.174 χ^2/NDF : 2565155.6/15

In: 266.454+/-0.044 χ^2/NDF : 1930697.8/29

Out: 268.912+/-0.042 χ^2/NDF : 3663160.8/33

All: 267.735+/-0.031 χ^2/NDF : 5595468.4/63

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 47.547 $\pm$ 20.189 χ^2 /NDF: 19.2/19

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 75.842 $\pm$ 18.127 χ^2 /NDF: 20.7/24

Left In: 16.198 $\pm$ 15.531 χ^2 /NDF:23.3/22

Left: 19.658 $\pm$ 10.777 χ^2 /NDF: 52.4/47

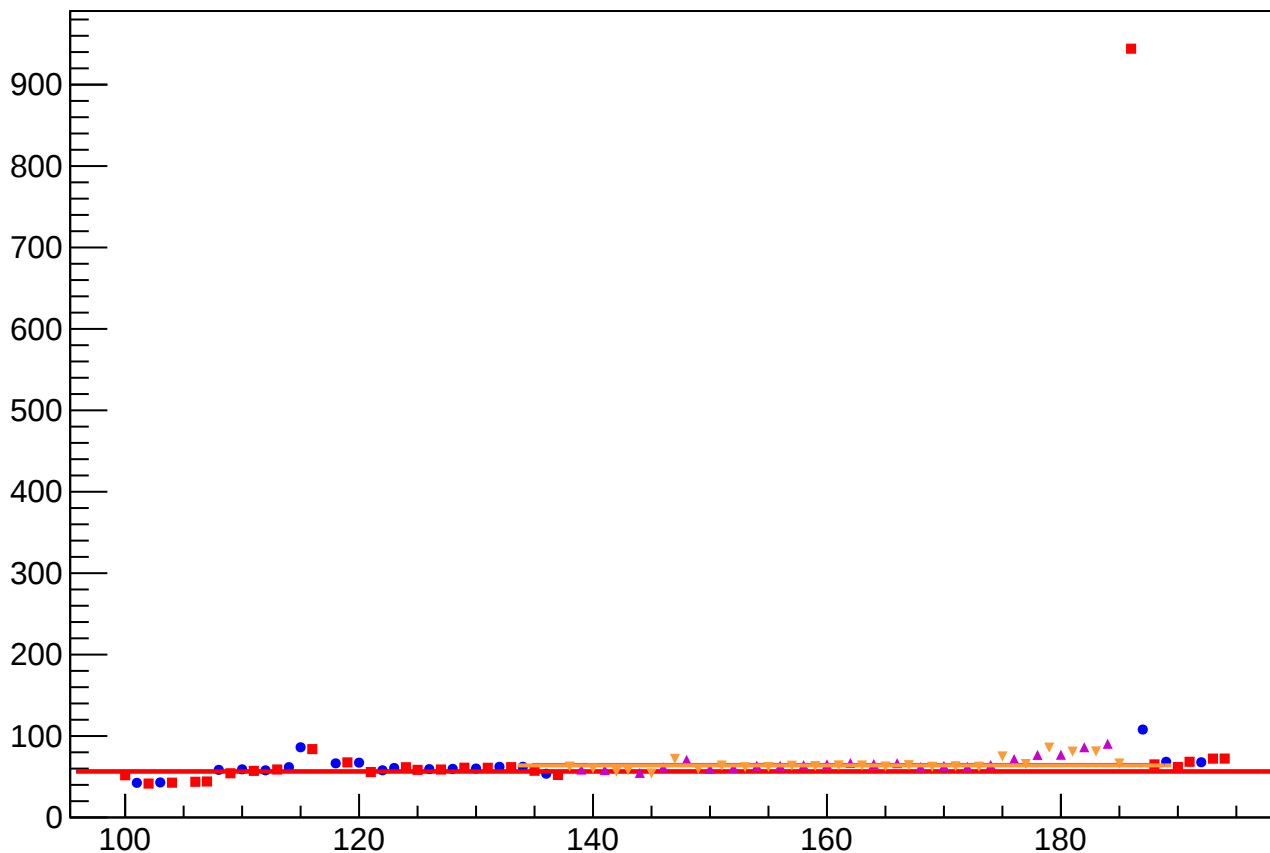
Right: 63.212 $\pm$ 13.488 χ^2 /NDF: 41.0/44

In: 27.853 $\pm$ 12.310 χ^2 /NDF:44.0/42

Out: 44.345 $\pm$ 11.542 χ^2 /NDF:54.8/49

All: 36.629 $\pm$ 8.420 χ^2 /NDF: 99.8/92

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 56.478+/-0.014 χ^2/NDF : 477466.3/19

Left Out: 63.920+/-0.011 χ^2/NDF : 395410.4/24

Right Out: 56.564+/-0.013 χ^2/NDF : 1303860.9/24

Left In: 64.511+/-0.011 χ^2/NDF : 370515.2/22

Left: 64.204+/-0.008 χ^2/NDF : 767426.6/47

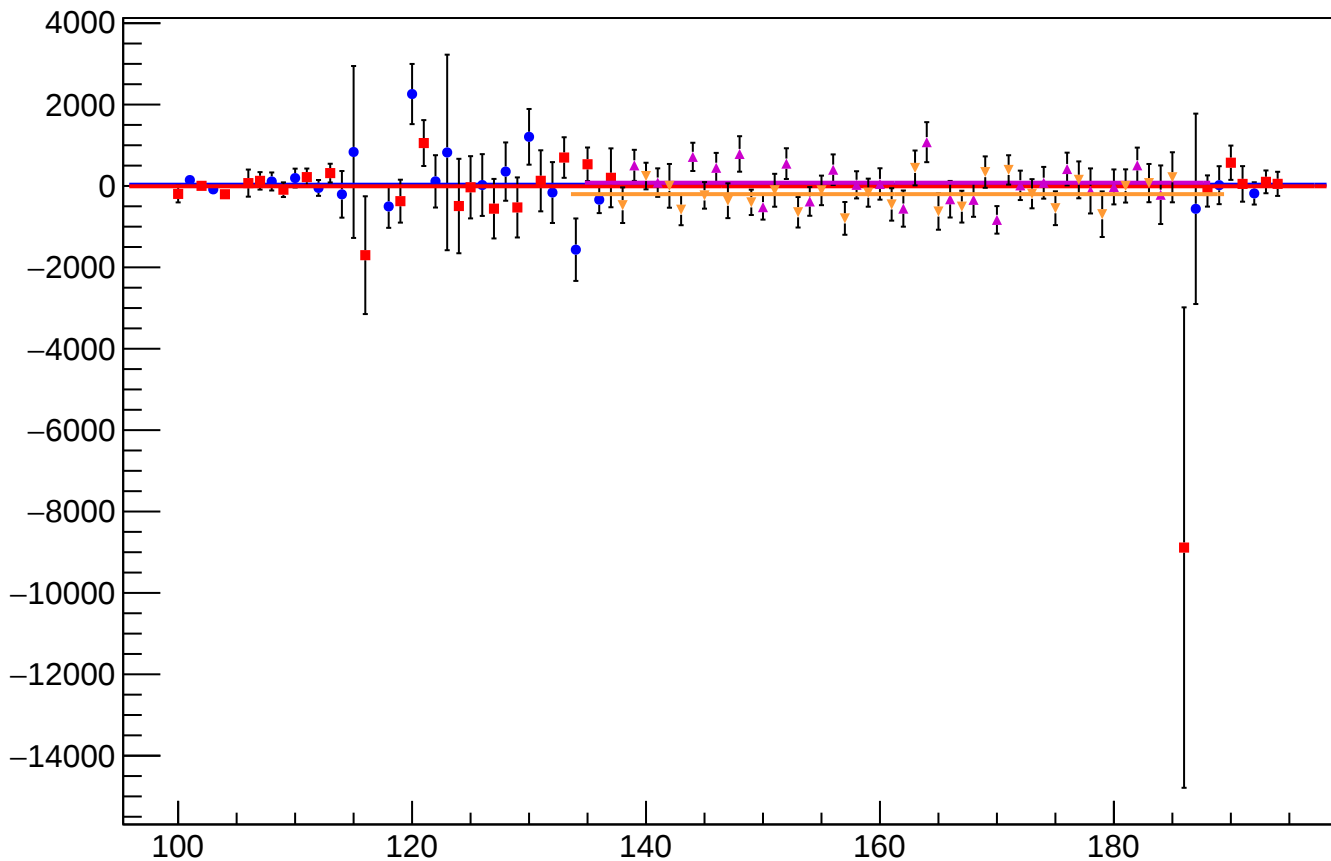
Right: 56.525+/-0.010 χ^2/NDF : 1781347.1/44

In: 61.524+/-0.009 χ^2/NDF : 1046894.1/42

Out: 60.938+/-0.008 χ^2/NDF : 1895121.4/49

All: 61.212+/-0.006 χ^2/NDF : 2944434.1/92

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 30.963 ± 50.361 $\chi^2/\text{NDF}: 24.5/19$

Left Out: -201.082 ± 79.549 $\chi^2/\text{NDF}: 19.7/24$

Right Out: -8.327 ± 50.380 $\chi^2/\text{NDF}: 23.3/24$

Left In: 79.985 ± 81.781 $\chi^2/\text{NDF}: 33.4/22$

Left: -64.438 ± 57.022 $\chi^2/\text{NDF}: 59.1/47$

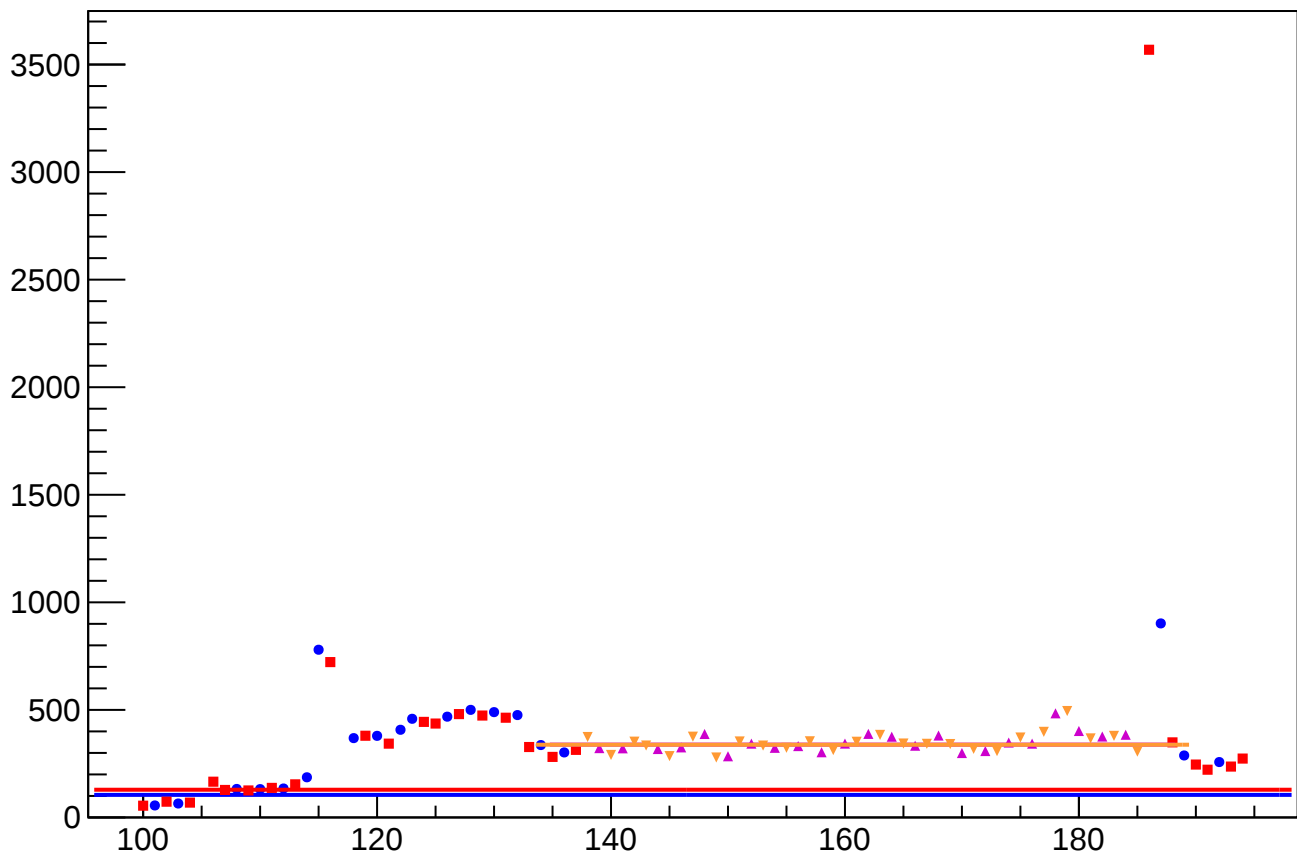
Right: 11.325 ± 35.617 $\chi^2/\text{NDF}: 48.1/44$

In: 44.441 ± 42.882 $\chi^2/\text{NDF}: 58.2/42$

Out: -63.509 ± 42.562 $\chi^2/\text{NDF}: 47.2/49$

All: -9.938 ± 30.209 $\chi^2/\text{NDF}: 108.5/92$

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 104.947 $\pm$ 0.036 χ^2 /NDF: 7012108.5/19

Left Out: 338.130 $\pm$ 0.056 χ^2 /NDF: 498601.7/24

Right Out: 128.882 $\pm$ 0.036 χ^2 /NDF: 7560064.4/24

Left In: 338.564 $\pm$ 0.058 χ^2 /NDF: 437243.0/22

Left: 338.341 $\pm$ 0.040 χ^2 /NDF: 935873.7/47

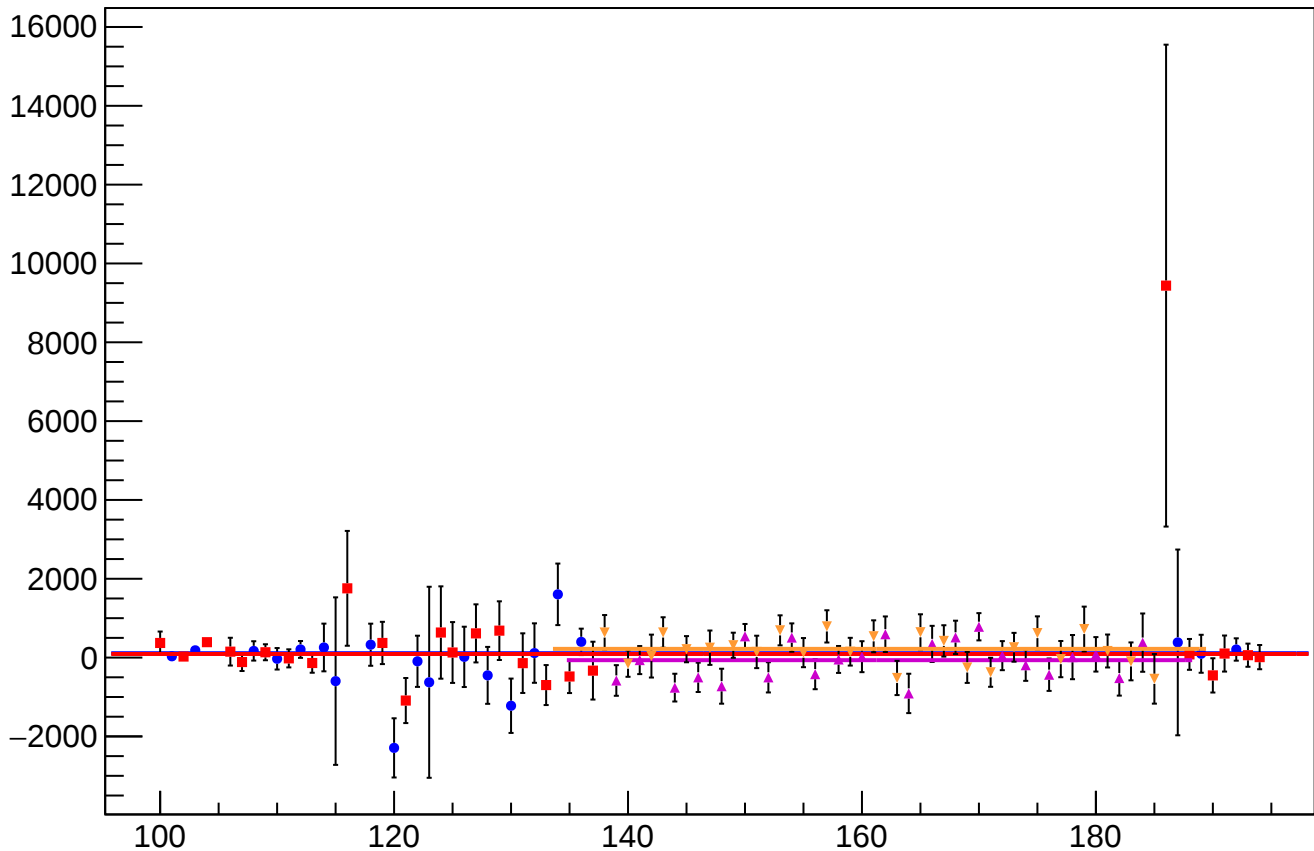
Right: 116.910 $\pm$ 0.025 χ^2 /NDF: 14797965.3/44

In: 169.179 $\pm$ 0.030 χ^2 /NDF: 19282552.9/42

Out: 188.785 $\pm$ 0.030 χ^2 /NDF: 17935444.0/49

All: 179.056 $\pm$ 0.021 χ^2 /NDF: 37428587.2/92

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 110.350 $\pm$ 61.154 χ^2 /NDF: 21.1/19

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 91.497 $\pm$ 56.924 χ^2 /NDF: 25.3/24

Left In: -65.510 $\pm$ 83.319 χ^2 /NDF:34.0/22

Left: 81.798 $\pm$ 58.085 χ^2 /NDF: 59.7/47

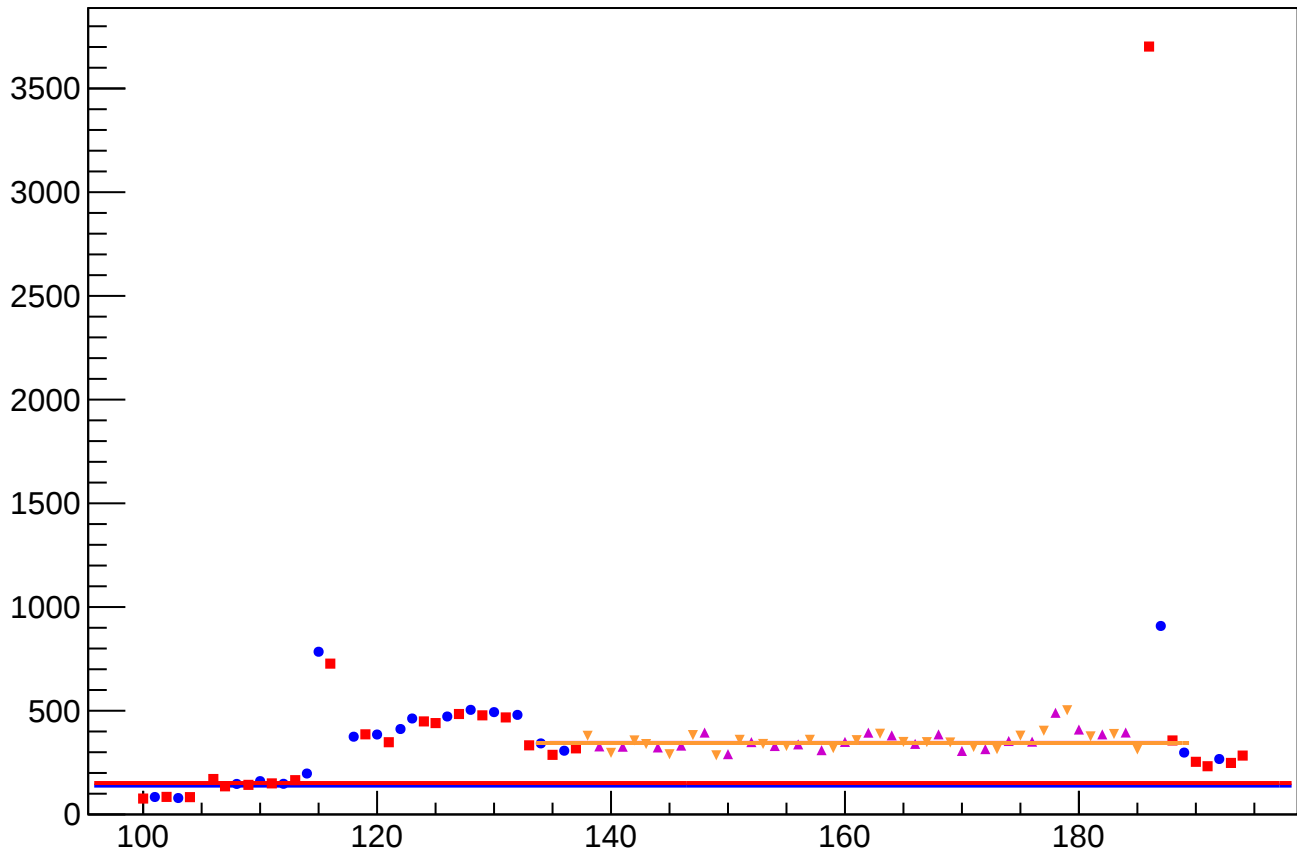
Right: 100.249 $\pm$ 41.666 χ^2 /NDF: 46.5/44

In: 48.780 $\pm$ 49.300 χ^2 /NDF:58.0/42

Out: 134.325 $\pm$ 46.577 χ^2 /NDF:46.7/49

All: 93.980 $\pm$ 33.856 χ^2 /NDF: 106.3/92

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 139.041 $\pm$ 0.043 χ^2 /NDF: 5646662.8/19

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF: 488323.4/24

Right Out: 151.537 $\pm$ 0.040 χ^2 /NDF: 6511786.4/24

Left In: 345.039 $\pm$ 0.059 χ^2 /NDF: 427381.3/22

Left: 344.765 $\pm$ 0.041 χ^2 /NDF: 915746.8/47

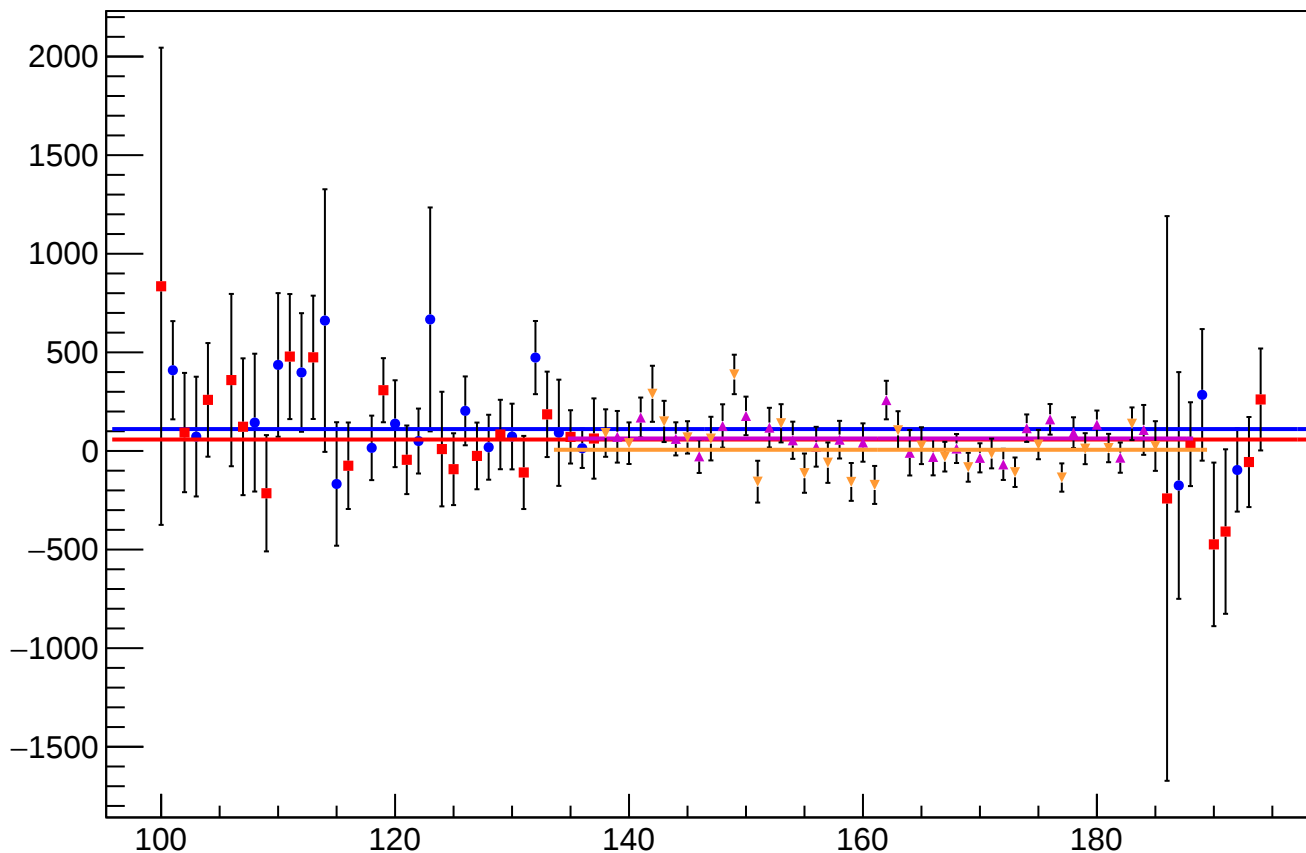
Right: 145.736 $\pm$ 0.029 χ^2 /NDF: 12203188.6/44

In: 211.162 $\pm$ 0.035 χ^2 /NDF: 14019366.4/42

Out: 215.313 $\pm$ 0.033 χ^2 /NDF: 14596192.7/49

All: 213.355 $\pm$ 0.024 χ^2 /NDF: 28623047.6/92

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 110.998 $\pm$ 47.269 χ^2 /NDF: 13.0/19

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 58.018 $\pm$ 46.249 χ^2 /NDF: 14.9/24

Left In: 63.279 $\pm$ 18.447 χ^2 /NDF:19.8/22

Left: 33.804 $\pm$ 12.850 χ^2 /NDF: 70.8/47

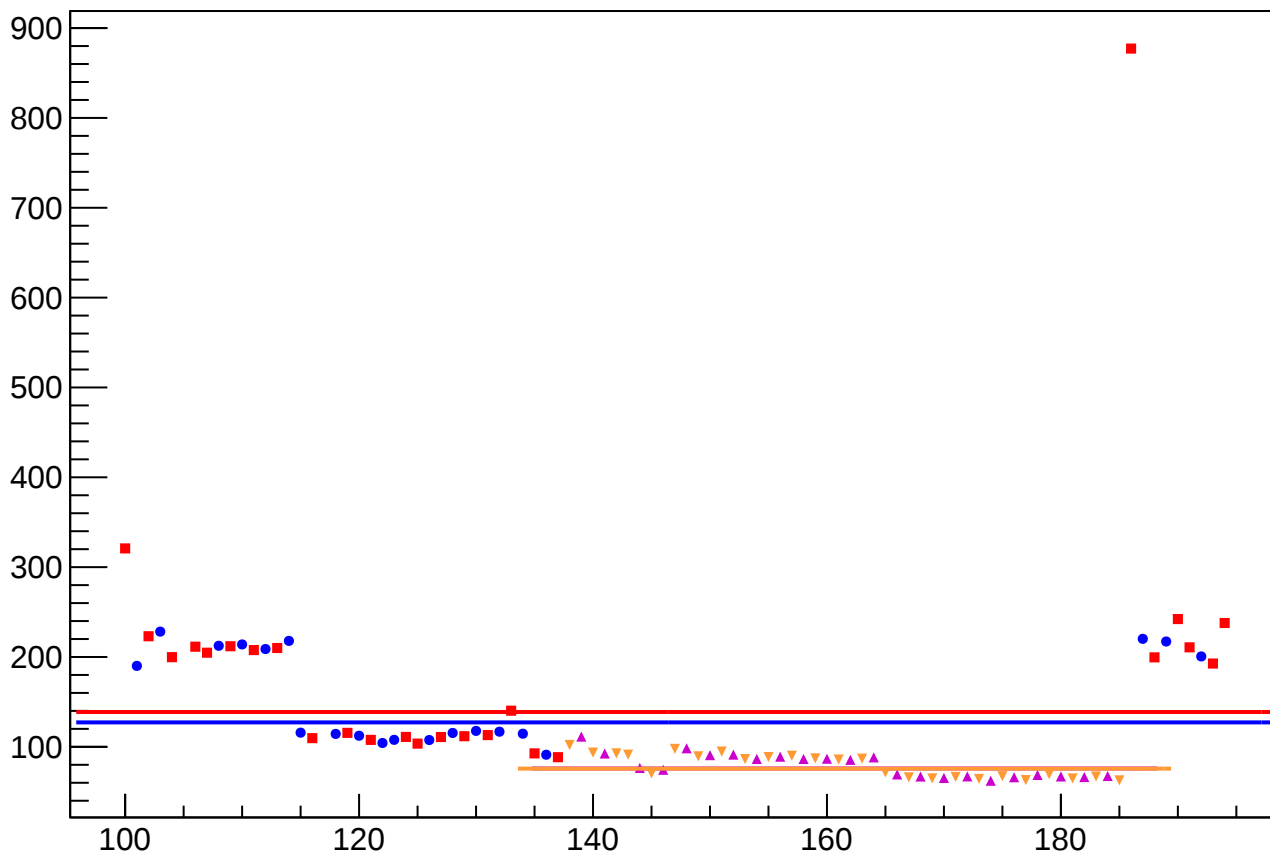
Right: 83.931 $\pm$ 33.058 χ^2 /NDF: 28.5/44

In: 69.586 $\pm$ 17.184 χ^2 /NDF:33.7/42

Out: 12.801 $\pm$ 16.701 χ^2 /NDF:62.0/49

All: 40.384 $\pm$ 11.977 χ^2 /NDF: 101.3/92

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 127.203 $\pm$ 0.033 χ^2 /NDF: 1583525.3/19

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 138.787 $\pm$ 0.033 χ^2 /NDF: 2751795.3/24

Left In: 75.909 $\pm$ 0.013 χ^2 /NDF:831366.4/22

Left: 75.824 $\pm$ 0.009 χ^2 /NDF: 1769272.3/47

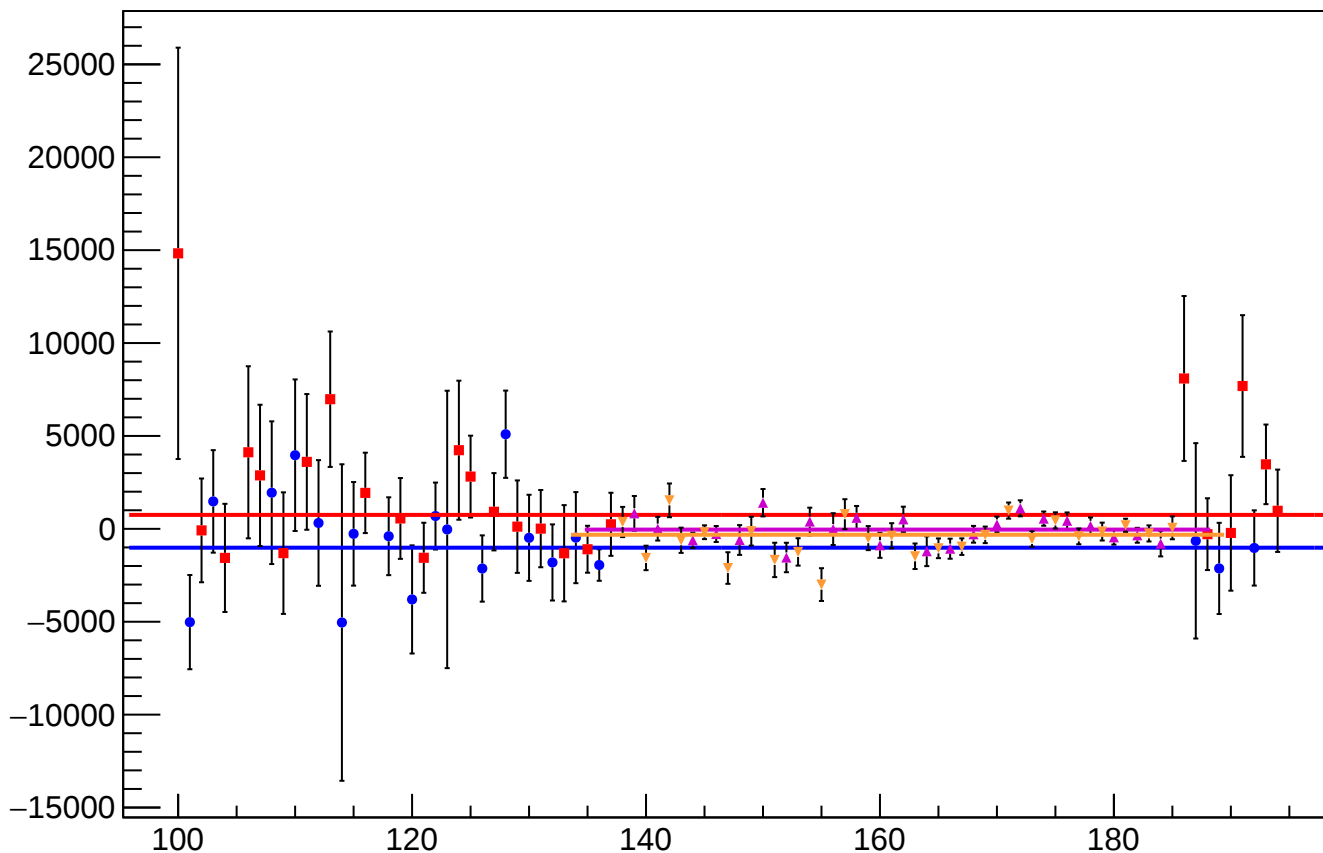
Right: 133.121 $\pm$ 0.023 χ^2 /NDF: 4396678.5/44

In: 82.689 $\pm$ 0.012 χ^2 /NDF:4458724.7/42

Out: 83.964 $\pm$ 0.012 χ^2 /NDF:6921282.0/49

All: 83.345 $\pm$ 0.008 χ^2 /NDF: 11385671.7/92

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1014.870 $\pm$ 485.654 χ^2/NDF : 16.6/19

Left Out: -318.064 $\pm$ 108.014 χ^2/NDF : 50.0/24

Right Out: 750.797 $\pm$ 484.663 χ^2/NDF : 21.8/24

Left In: -40.473 $\pm$ 110.252 χ^2/NDF : 34.7/22

Left: -182.115 $\pm$ 77.156 χ^2/NDF : 88.0/47

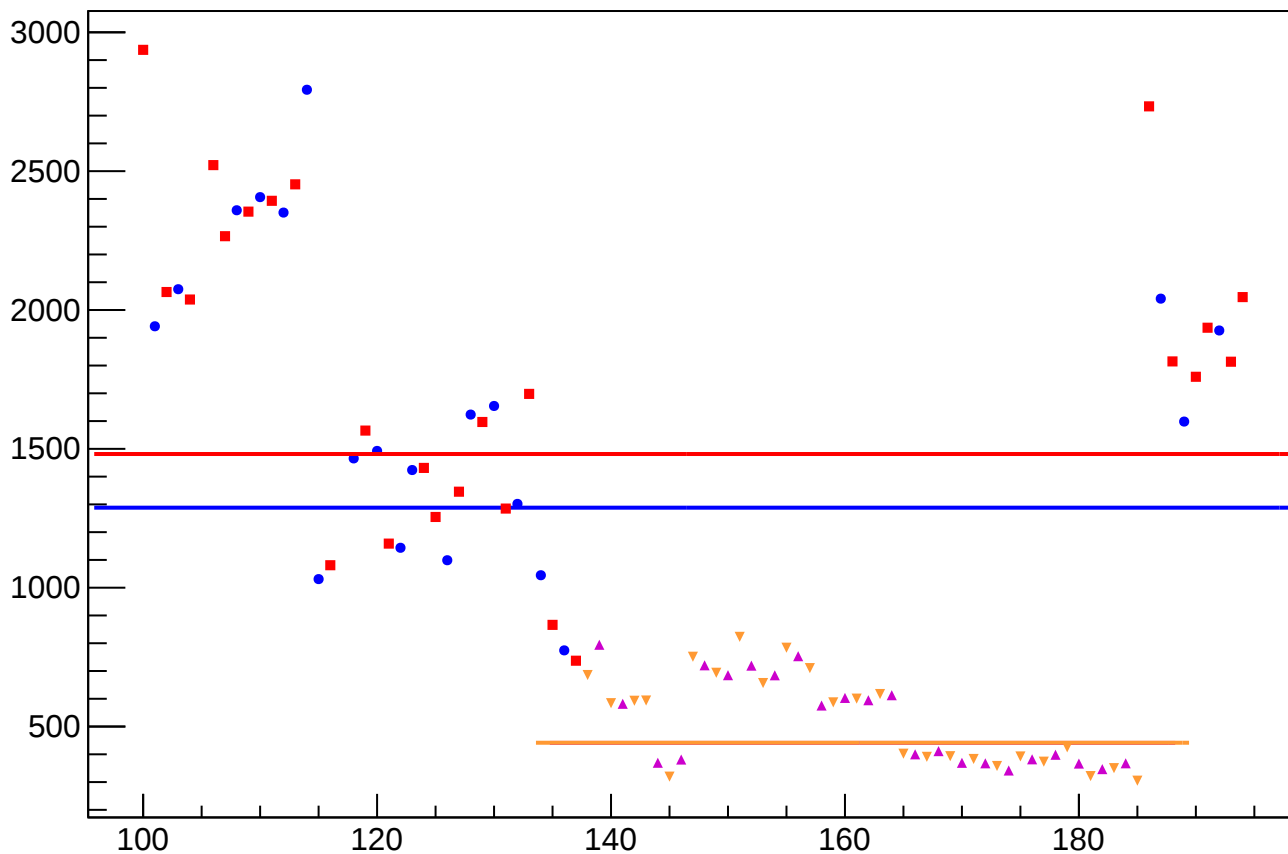
Right: -130.233 $\pm$ 343.058 χ^2/NDF : 45.0/44

In: -88.229 $\pm$ 107.517 χ^2/NDF : 55.2/42

Out: -267.488 $\pm$ 105.427 χ^2/NDF : 76.4/49

All: -179.617 $\pm$ 75.276 χ^2/NDF : 133.0/92

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1288.177+/-0.343 χ^2/NDF : 2054855.3/19

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1481.414+/-0.343 χ^2/NDF : 2286795.1/24

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

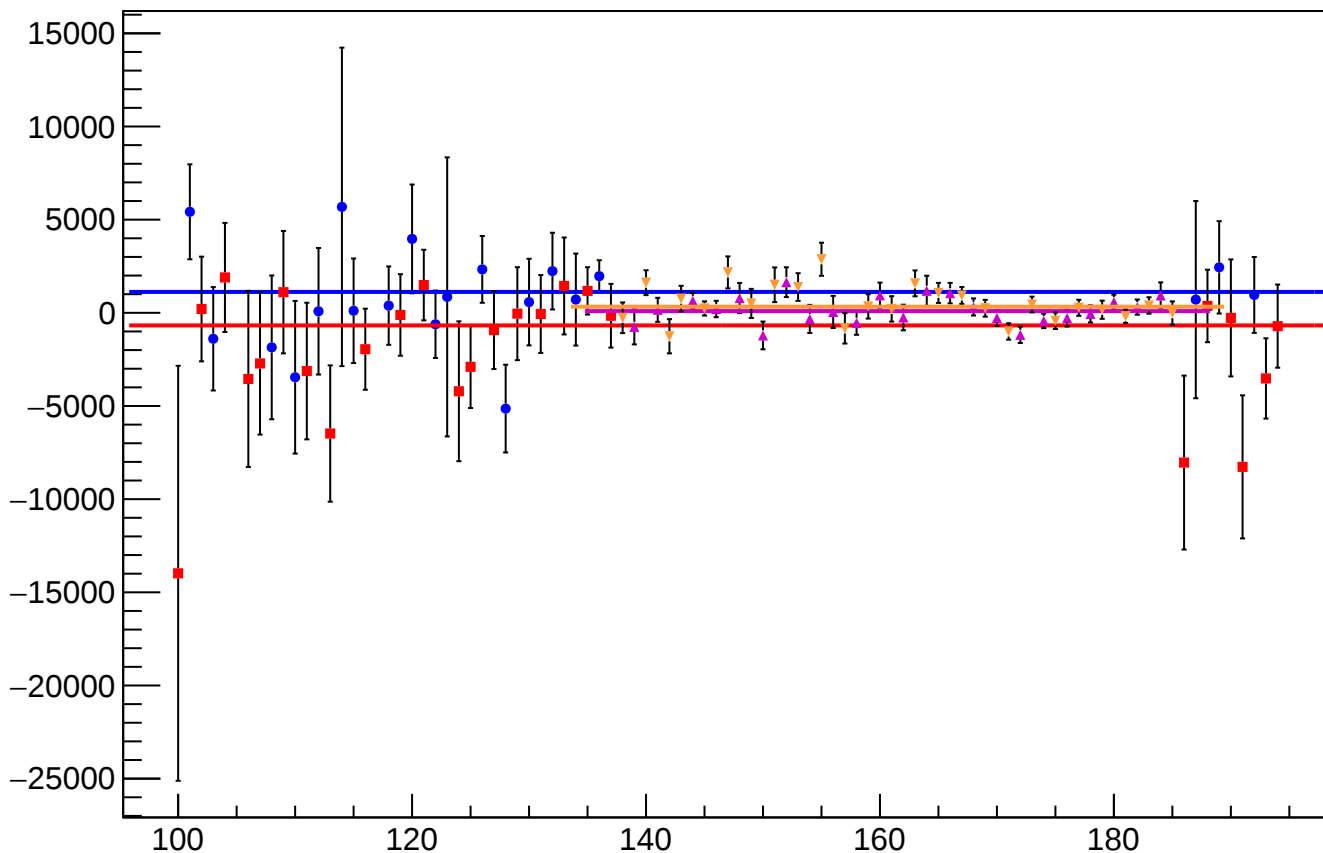
Right: 1384.993+/-0.243 χ^2/NDF : 4500291.0/44

In: 482.530+/-0.076 χ^2/NDF : 10439364.8/42

Out: 490.882+/-0.075 χ^2/NDF : 14224708.4/49

All: 486.788+/-0.053 χ^2/NDF : 24670227.1/92

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1121.757 $\pm$ 488.500 χ^2 /NDF: 17.2/19

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -676.254 $\pm$ 487.604 χ^2 /NDF: 21.3/24

Left In: 93.310 $\pm$ 111.960 χ^2 /NDF: 33.3/22

Left: 213.387 $\pm$ 78.345 χ^2 /NDF: 83.3/47

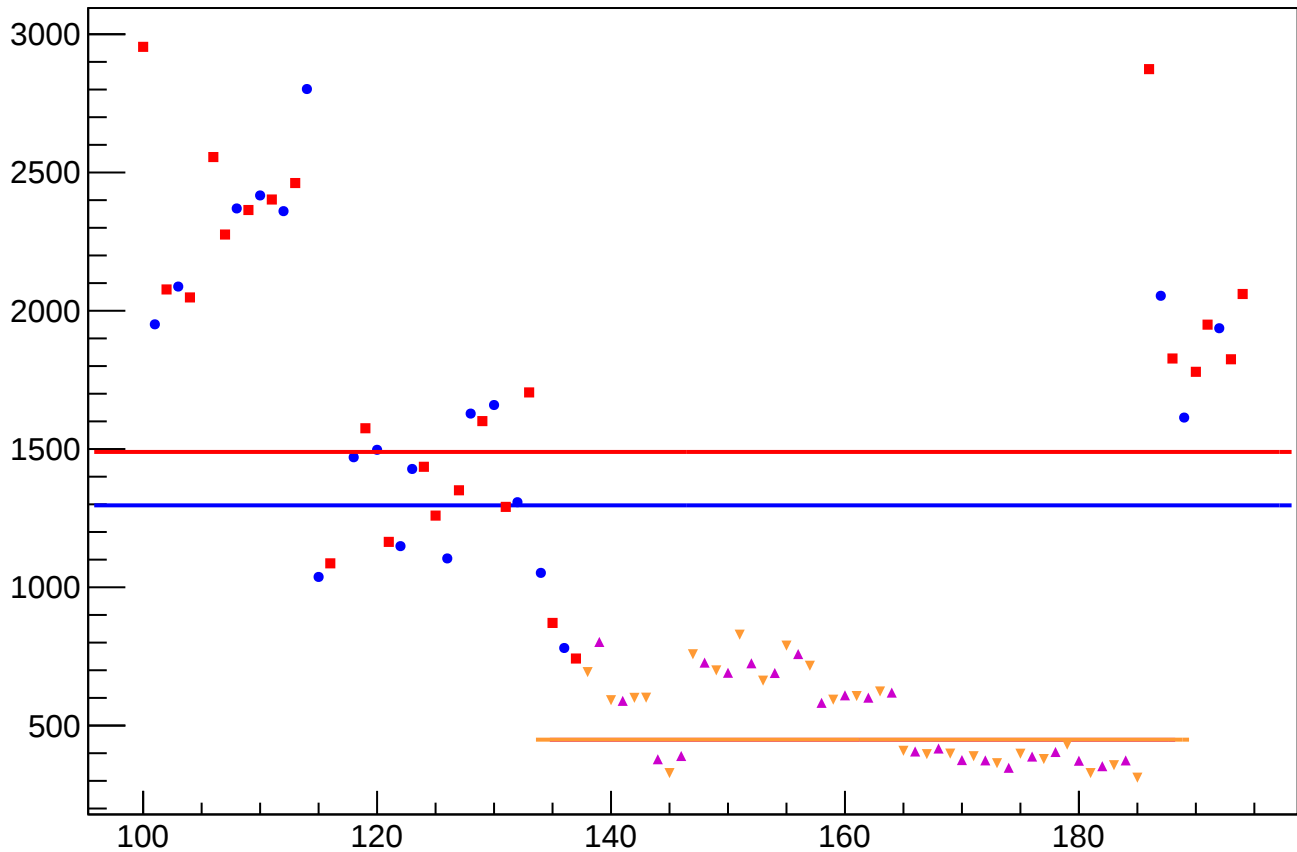
Right: 221.101 $\pm$ 345.105 χ^2 /NDF: 45.3/44

In: 144.637 $\pm$ 109.130 χ^2 /NDF: 54.8/42

Out: 280.215 $\pm$ 106.995 χ^2 /NDF: 73.1/49

All: 213.765 $\pm$ 76.401 χ^2 /NDF: 128.6/92

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1296.326+/-0.345 χ^2/NDF : 2042750.7/19

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1489.485+/-0.345 χ^2/NDF : 2303339.9/24

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

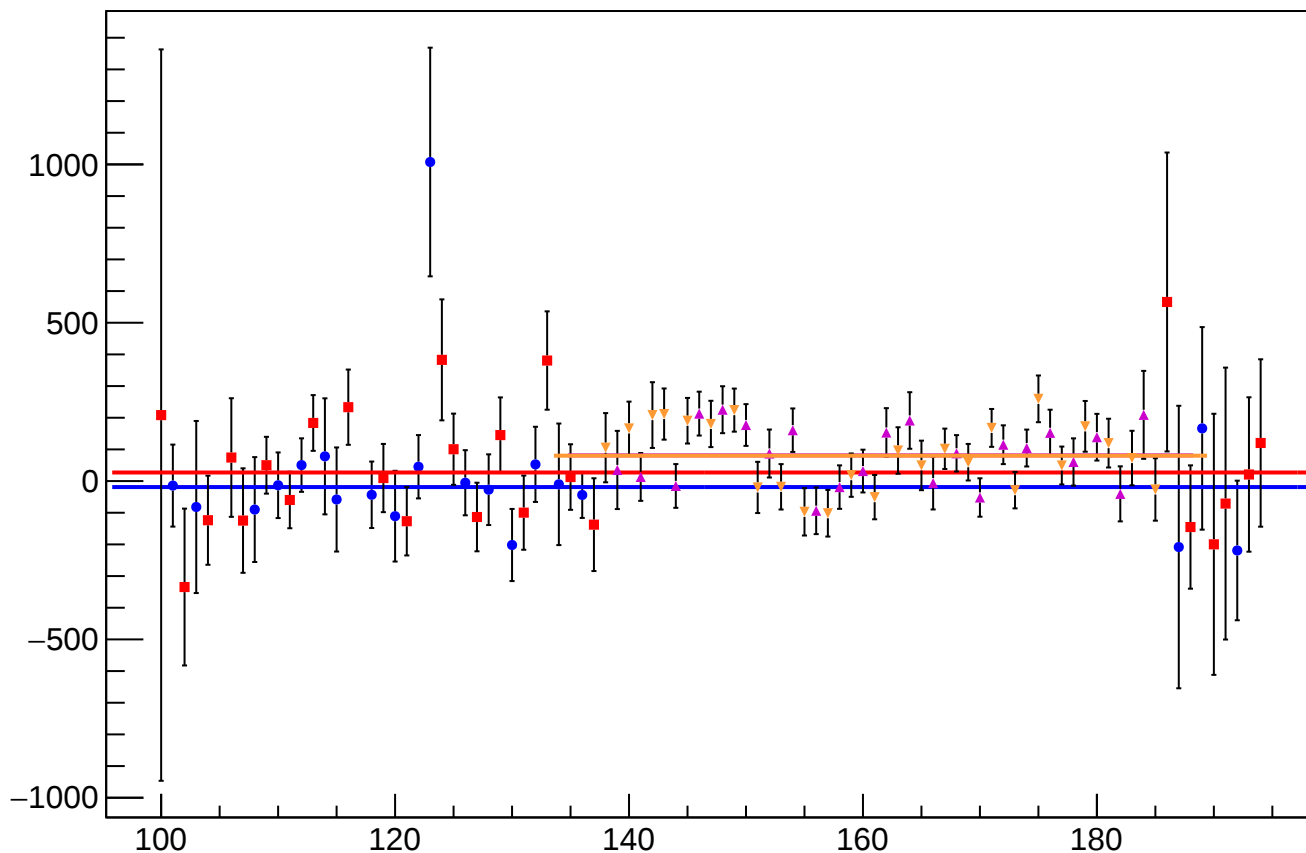
Right: 1393.083+/-0.244 χ^2/NDF : 4502728.5/44

In: 490.629+/-0.077 χ^2/NDF : 10306473.8/42

Out: 499.115+/-0.076 χ^2/NDF : 14061869.9/49

All: 494.956+/-0.054 χ^2/NDF : 24374509.7/92

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -18.927 ± 28.488 χ^2/NDF : 14.6/19

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: 27.104 ± 27.274 χ^2/NDF : 30.2/24

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

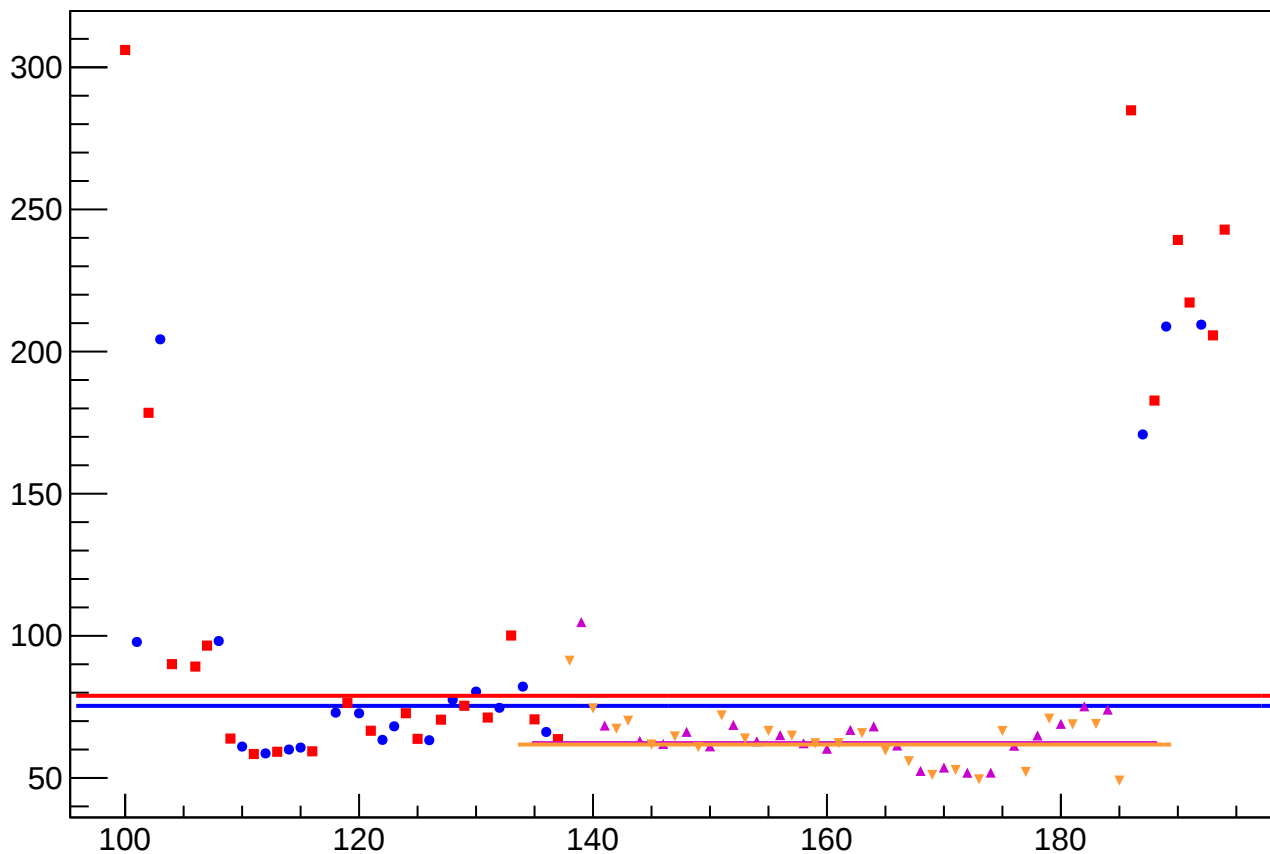
Right: 5.090 ± 19.701 χ^2/NDF : 46.2/44

In: 59.193 ± 13.345 χ^2/NDF : 59.6/42

Out: 68.361 ± 12.866 χ^2/NDF : 81.7/49

All: 63.944 ± 9.263 χ^2/NDF : 141.5/92

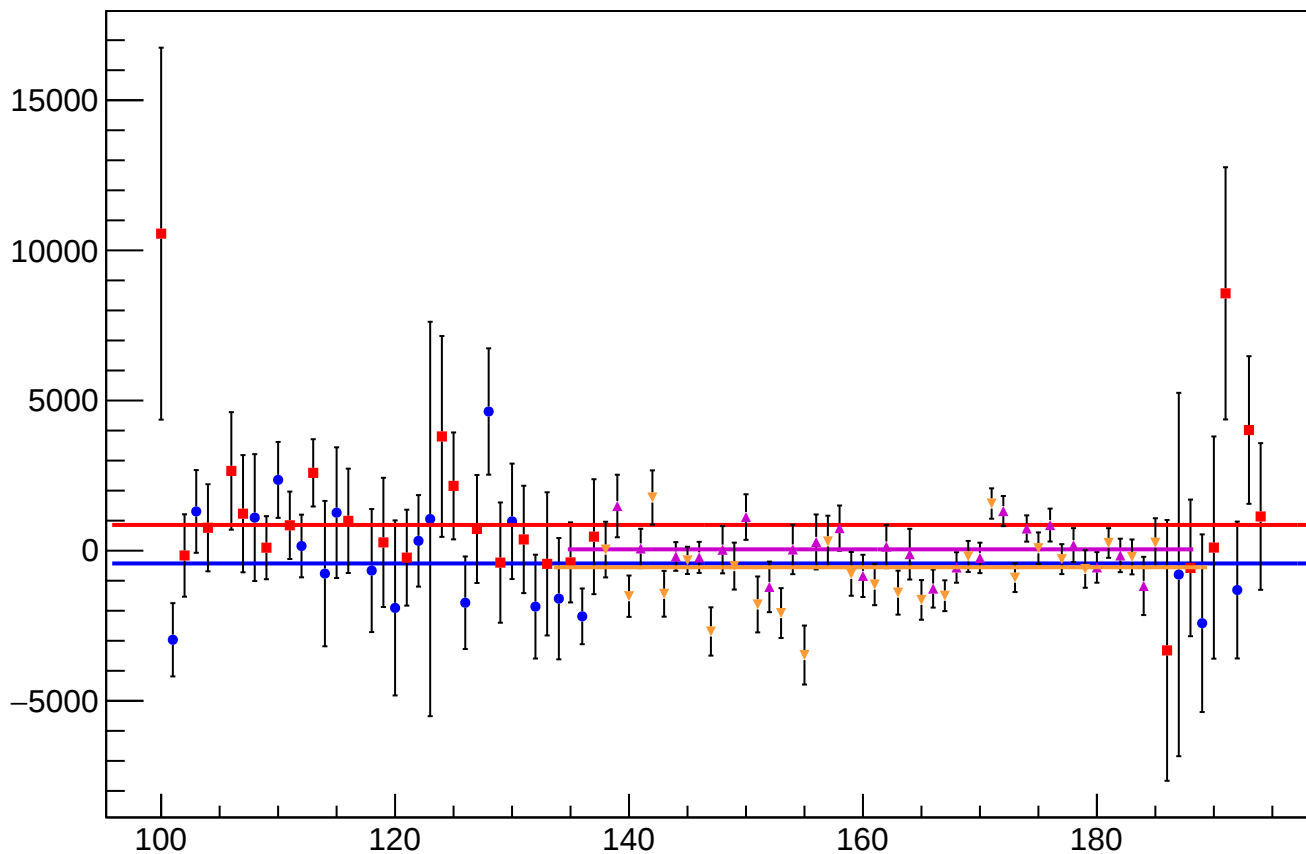
reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 75.364+/-0.020 χ^2/NDF : 1973163.8/19
 Left Out: 61.761+/-0.010 χ^2/NDF : 645535.0/24
 Right Out: 78.913+/-0.019 χ^2/NDF : 3688208.9/24
 Left In: 62.250+/-0.011 χ^2/NDF : 591085.1/22

Left: 61.997+/-0.007 χ^2/NDF : 1237703.8/47
 Right: 77.216+/-0.014 χ^2/NDF : 5677574.1/44
 In: 65.128+/-0.009 χ^2/NDF : 2895032.6/42
 Out: 65.578+/-0.009 χ^2/NDF : 4948694.6/49
 All: 65.361+/-0.007 χ^2/NDF : 7844907.8/92

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -425.550 ± 373.922 $\chi^2/\text{NDF}: 25.1/19$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 857.201 ± 353.725 $\chi^2/\text{NDF}: 16.8/24$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

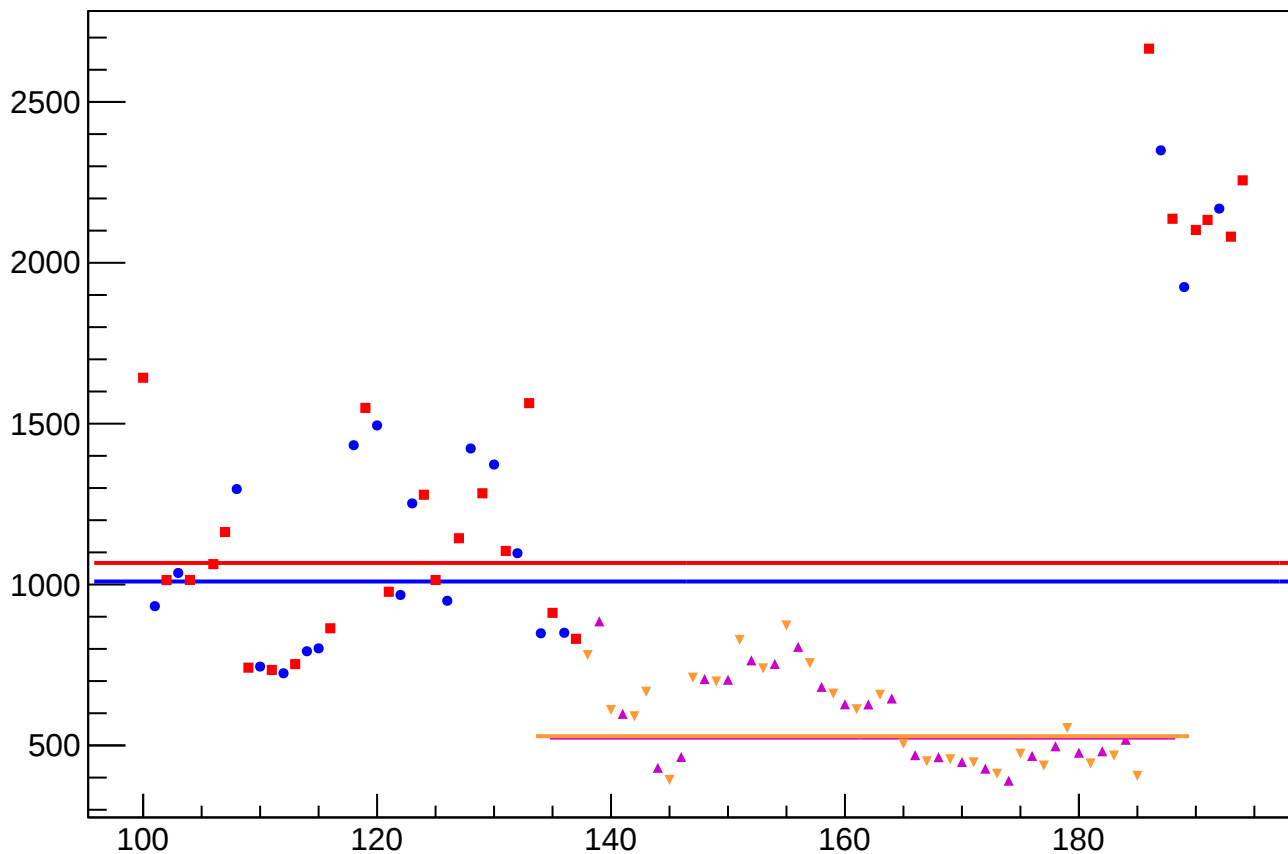
Right: 251.403 ± 256.965 $\chi^2/\text{NDF}: 48.0/44$

In: -5.490 ± 122.027 $\chi^2/\text{NDF}: 56.0/42$

Out: -391.582 ± 119.513 $\chi^2/\text{NDF}: 96.1/49$

All: -202.553 ± 85.384 $\chi^2/\text{NDF}: 157.3/92$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1009.498+/-0.264 χ^2/NDF : 1497574.5/19

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1067.097+/-0.250 χ^2/NDF : 2682744.1/24

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

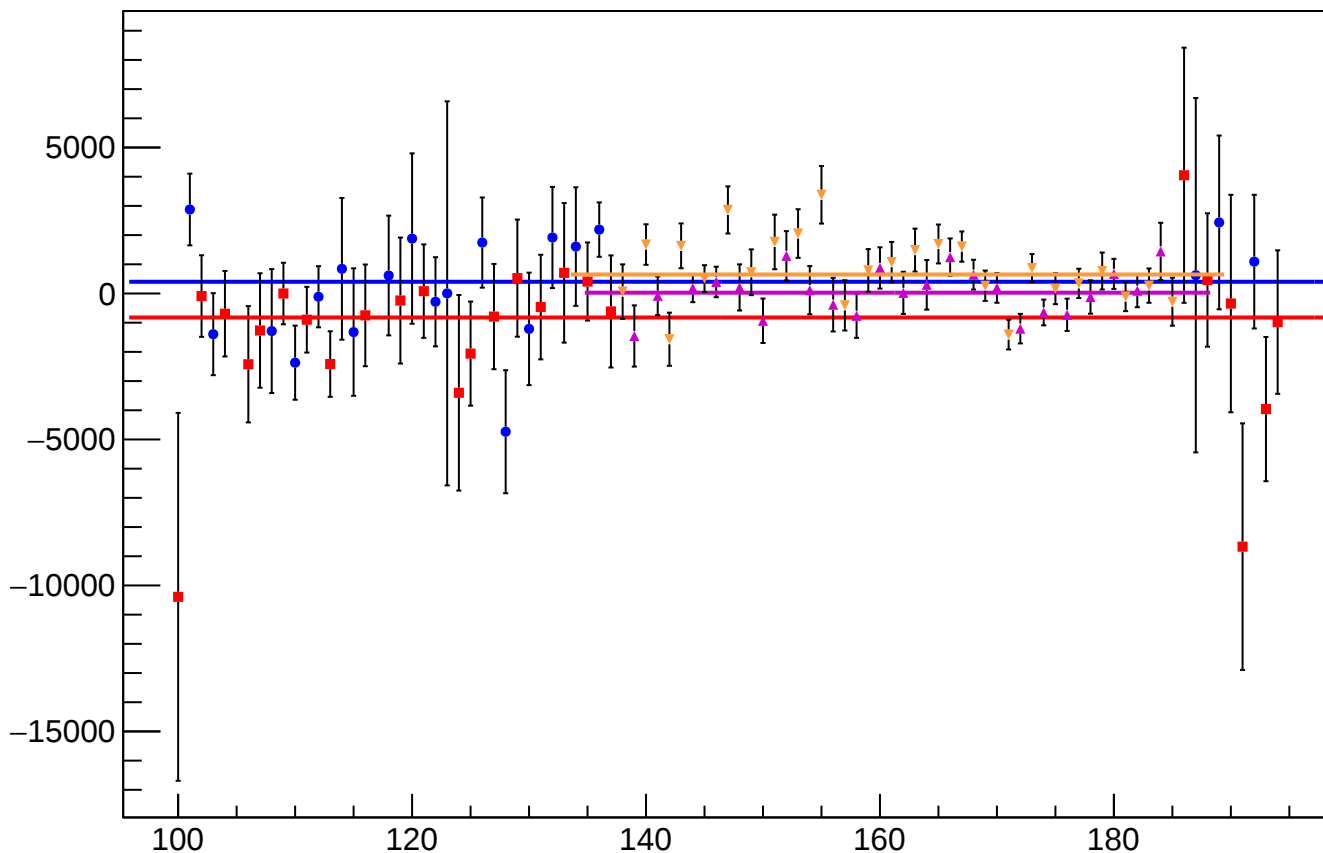
Right: 1039.895+/-0.182 χ^2/NDF : 4205363.5/44

In: 575.945+/-0.086 χ^2/NDF : 6223071.5/42

Out: 590.194+/-0.085 χ^2/NDF : 8770395.2/49

All: 583.218+/-0.060 χ^2/NDF : 15007384.7/92

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 401.497 $\pm$ 375.630 χ^2 /NDF: 25.2/19

Left Out: 651.560 $\pm$ 127.961 χ^2 /NDF:61.1/24

Right Out: -822.109 $\pm$ 355.523 χ^2 /NDF: 15.8/24

Left In: 27.483 $\pm$ 130.127 χ^2 /NDF:28.5/22

Left: 344.758 $\pm$ 91.238 χ^2 /NDF: 101.2/47

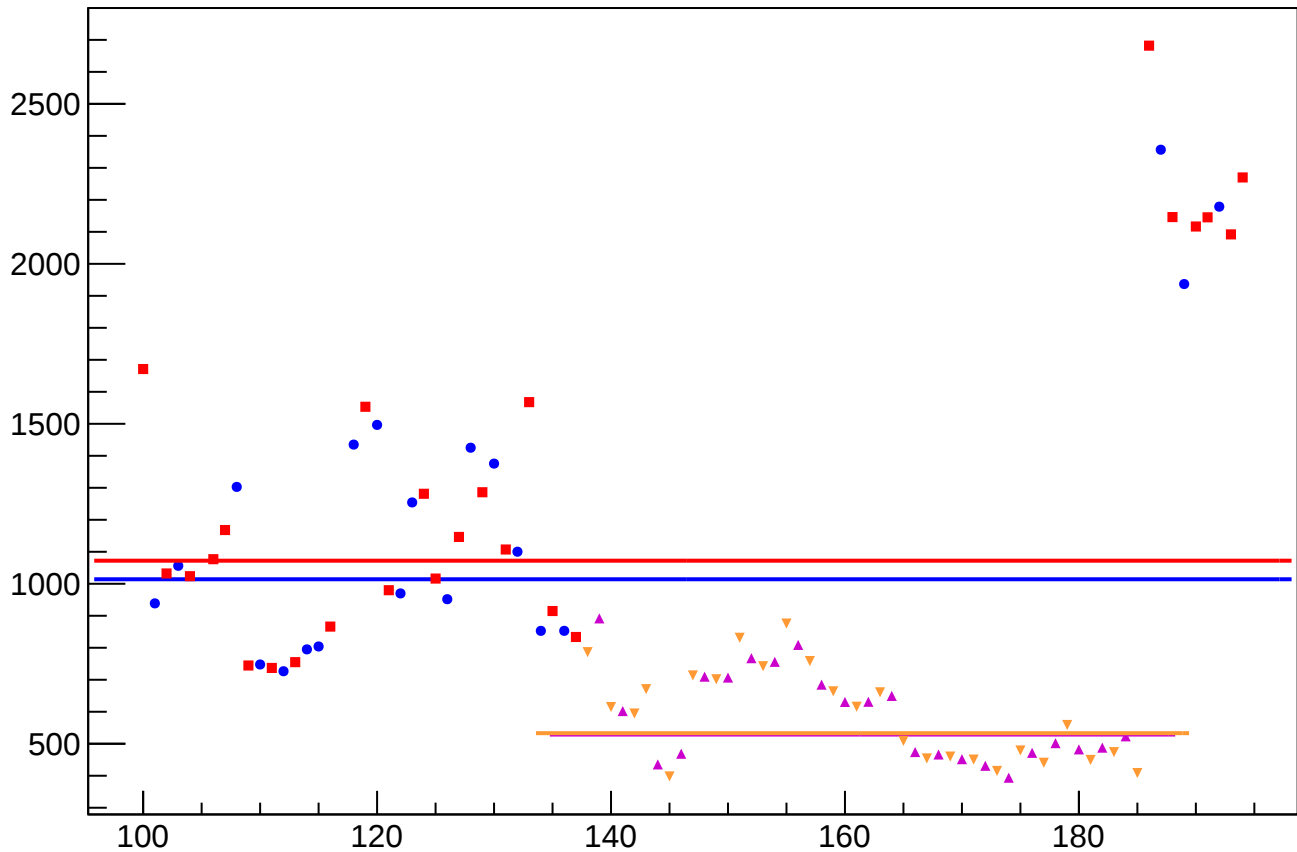
Right: -243.930 $\pm$ 258.209 χ^2 /NDF: 46.6/44

In: 67.559 $\pm$ 122.958 χ^2 /NDF:54.6/42

Out: 482.548 $\pm$ 120.400 χ^2 /NDF:92.1/49

All: 279.415 $\pm$ 86.026 χ^2 /NDF: 152.5/92

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1014.098 ± 0.266 $\chi^2/\text{NDF}: 1498355.3/19$

Left Out: 533.060 ± 0.090 $\chi^2/\text{NDF}: 1951536.4/24$

Right Out: 1072.162 ± 0.251 $\chi^2/\text{NDF}: 2688098.2/24$

Left In: 528.694 ± 0.092 $\chi^2/\text{NDF}: 1688511.2/22$

Left: 530.914 ± 0.065 $\chi^2/\text{NDF}: 3641192.3/47$

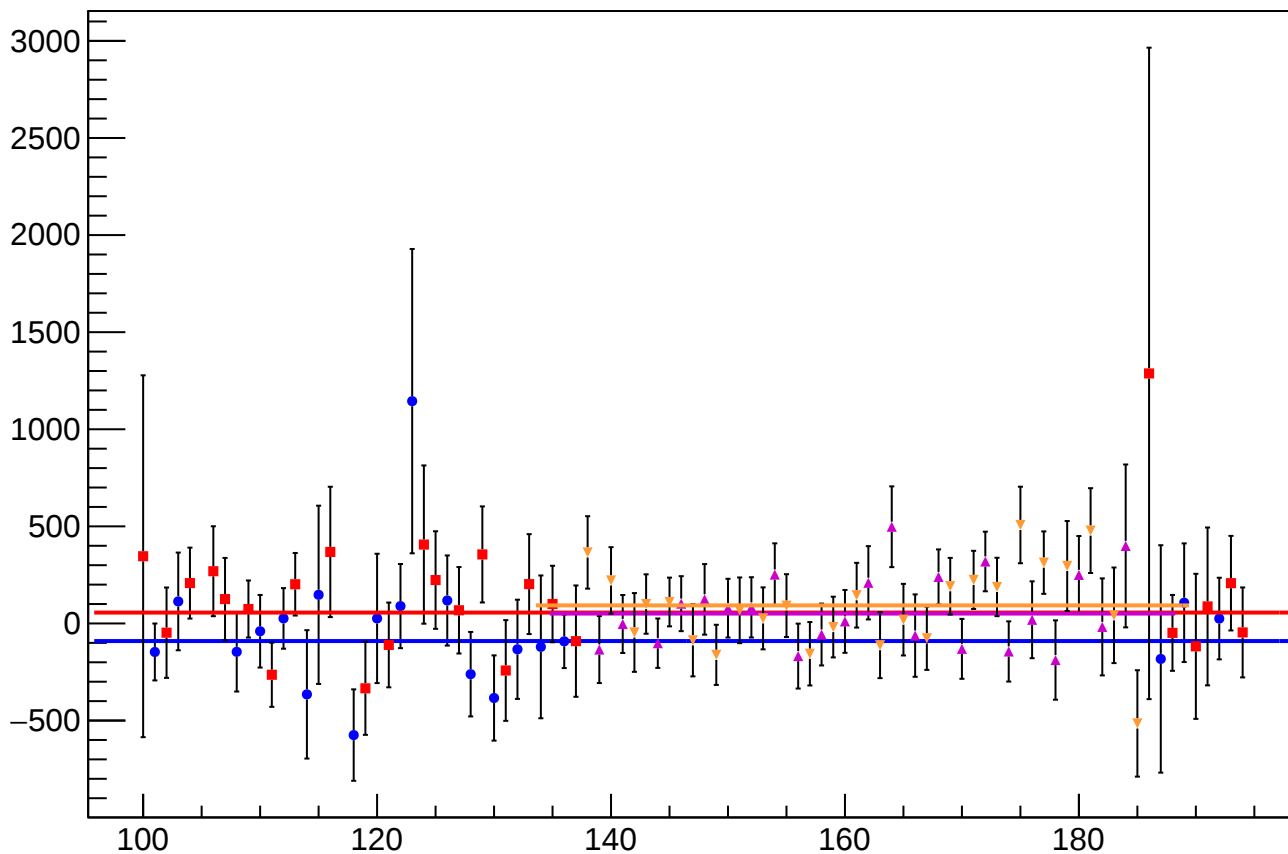
Right: 1044.726 ± 0.183 $\chi^2/\text{NDF}: 4211660.5/44$

In: 580.705 ± 0.087 $\chi^2/\text{NDF}: 6168780.4/42$

Out: 594.888 ± 0.085 $\chi^2/\text{NDF}: 8710919.9/49$

All: 587.946 ± 0.061 $\chi^2/\text{NDF}: 14893286.2/92$

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -90.621 ± 50.510 χ^2/NDF : 14.0/19

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: 56.056 ± 46.579 χ^2/NDF : 16.9/24

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

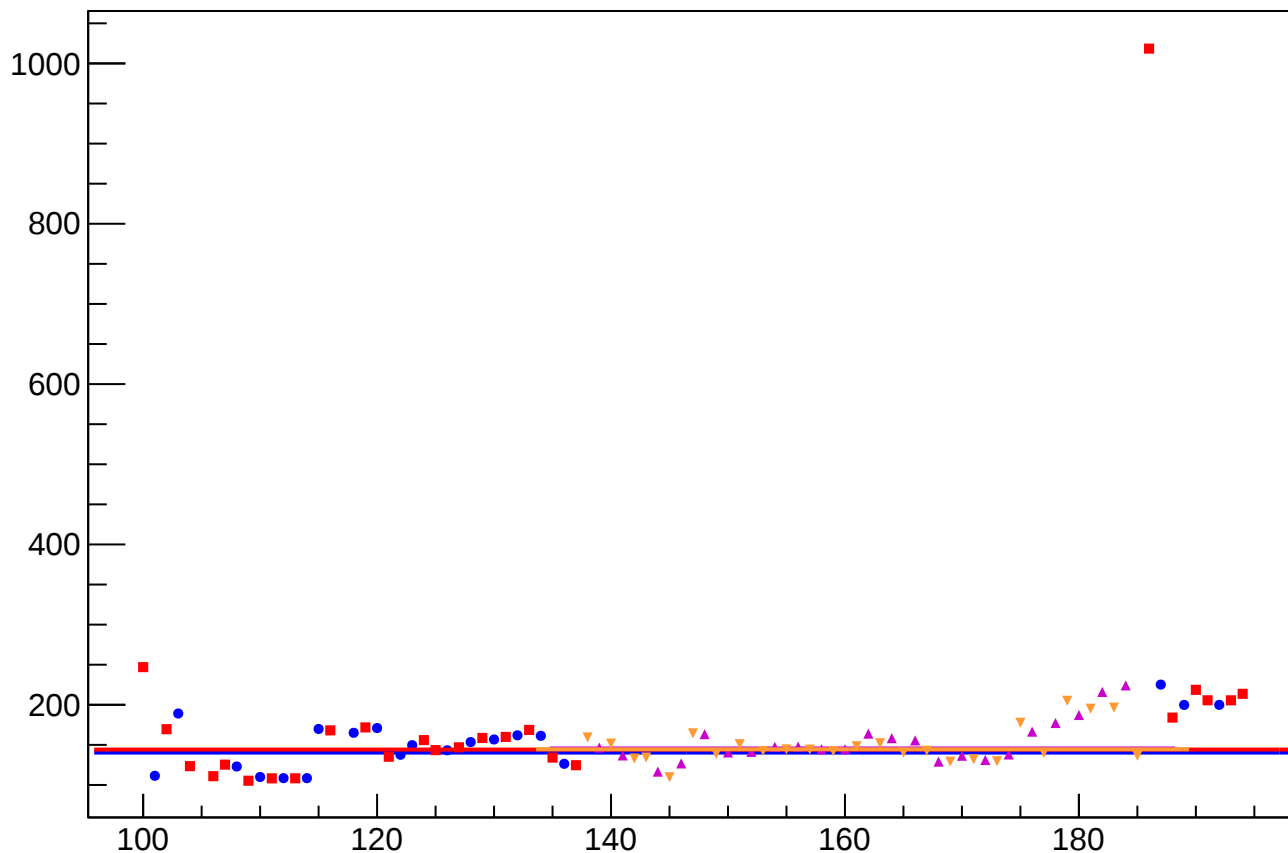
Right: -11.354 ± 34.242 χ^2/NDF : 35.4/44

In: 4.493 ± 28.923 χ^2/NDF : 42.7/42

Out: 80.128 ± 27.490 χ^2/NDF : 46.7/49

All: 44.230 ± 19.926 χ^2/NDF : 93.0/92

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 140.396 $\pm$ 0.036 χ^2 /NDF: 708515.2/19

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 144.150 $\pm$ 0.033 χ^2 /NDF: 1612462.3/24

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

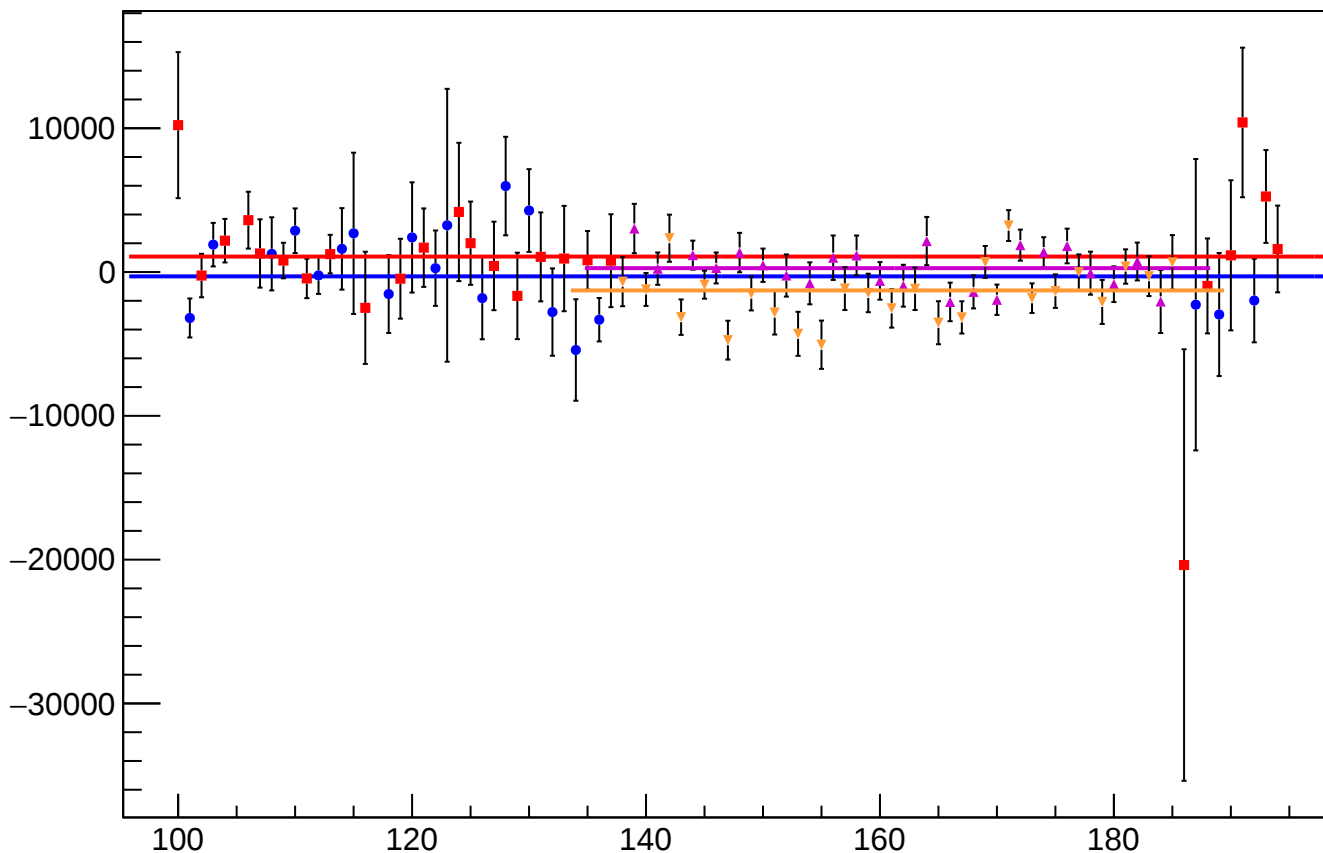
Right: 142.425 $\pm$ 0.024 χ^2 /NDF: 2326946.8/44

In: 143.850 $\pm$ 0.020 χ^2 /NDF: 1365957.3/42

Out: 144.362 $\pm$ 0.019 χ^2 /NDF: 2283014.7/49

All: 144.119 $\pm$ 0.014 χ^2 /NDF: 3649301.4/92

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -301.650+/-512.164 χ^2/NDF : 26.6/19

Left Out: -1279.328+/-259.299 χ^2/NDF :55.9/24

Right Out: 1075.457+/-461.870 χ^2/NDF : 17.4/24

Left In: 269.952+/-266.245 χ^2/NDF :24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

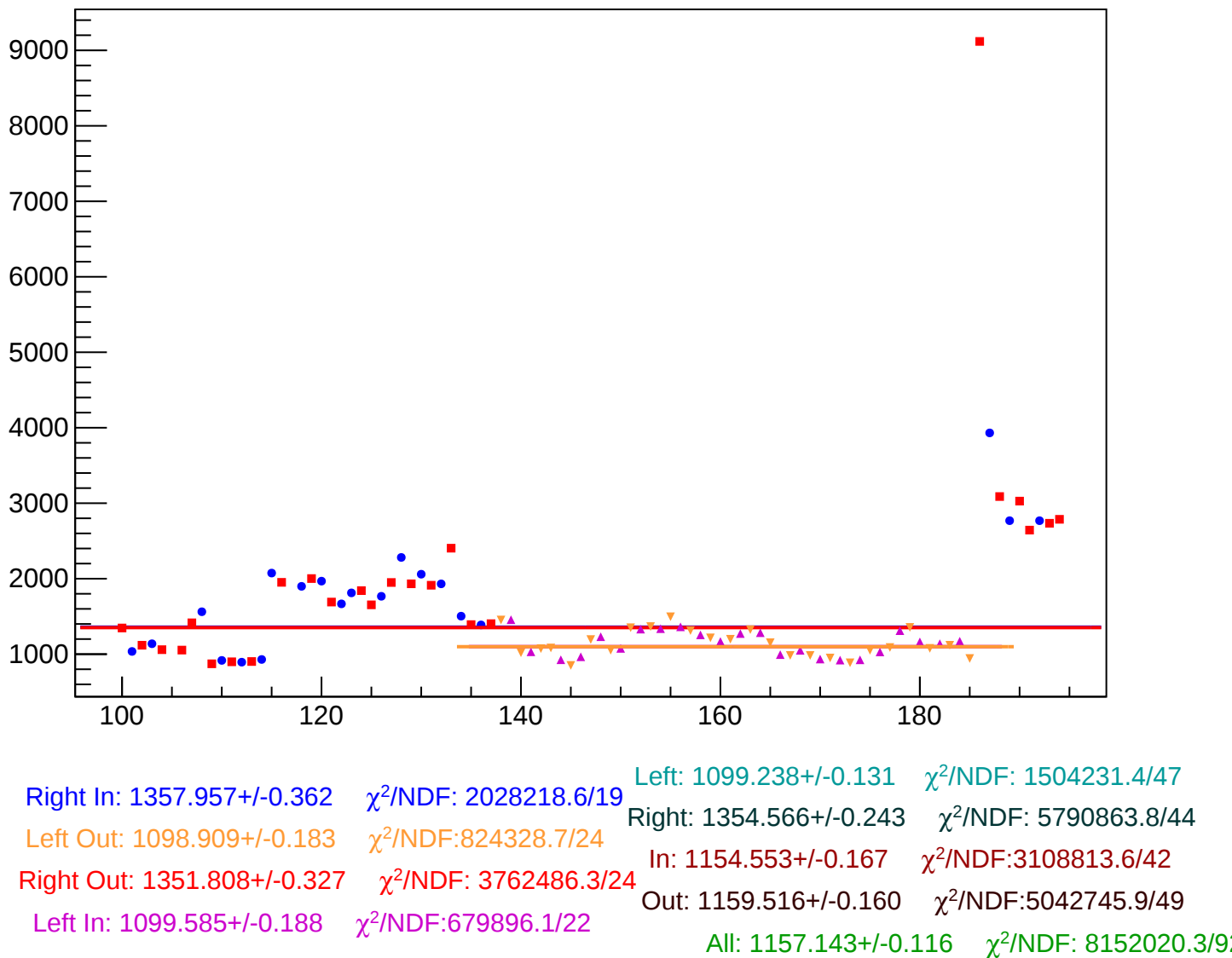
Right: 457.820+/-342.998 χ^2/NDF : 48.0/44

In: 148.346+/-236.232 χ^2/NDF :51.8/42

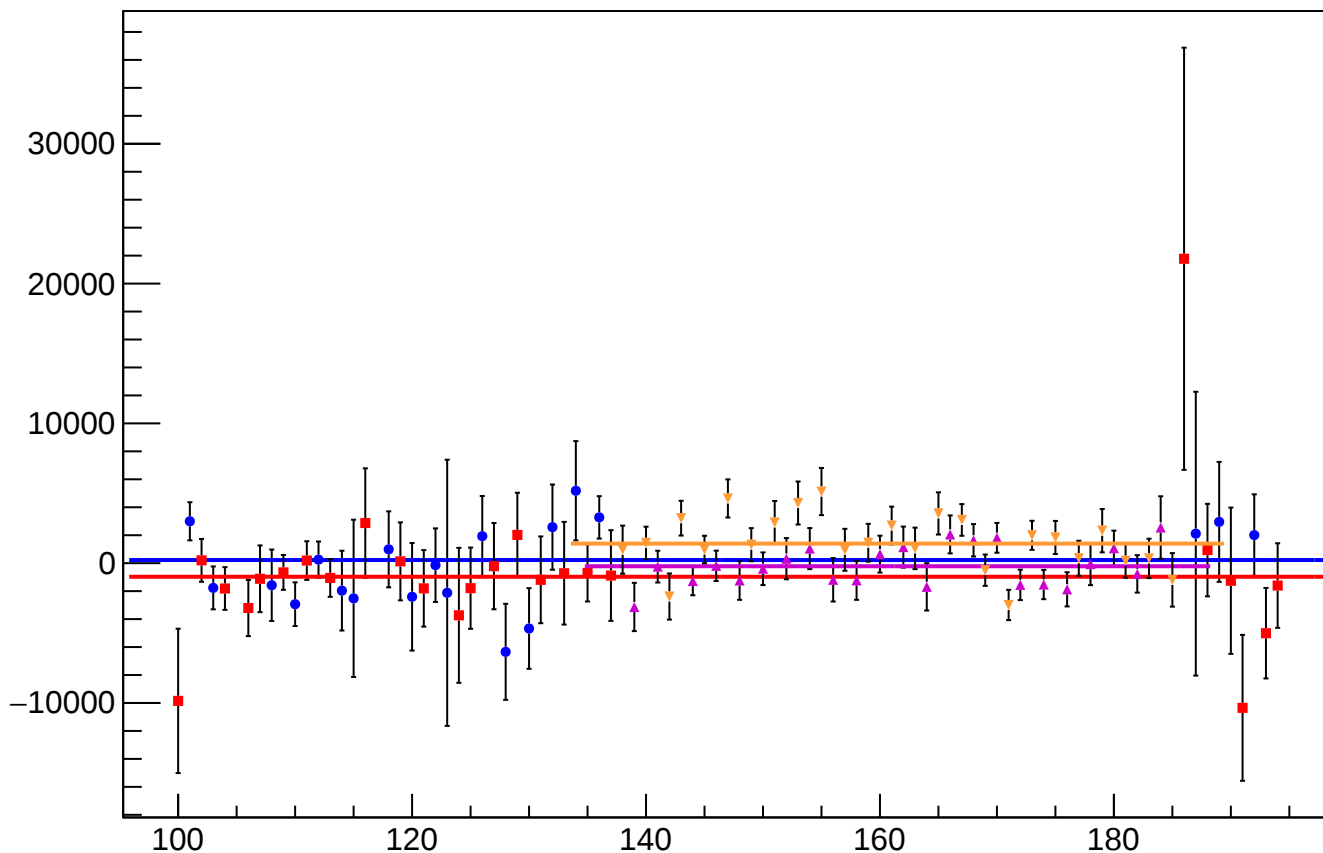
Out: -715.006+/-226.104 χ^2/NDF :93.1/49

All: -302.235+/-163.343 χ^2/NDF : 151.9/92

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 225.272 $\pm$ 515.401 χ^2 /NDF: 26.2/19

Left Out: 1400.458 $\pm$ 261.804 χ^2 /NDF:52.2/24

Right Out: -970.972 $\pm$ 465.225 χ^2 /NDF: 16.0/24

Left In: -219.393 $\pm$ 268.852 χ^2 /NDF:25.0/22

Left: 612.044 $\pm$ 187.566 χ^2 /NDF: 95.9/47

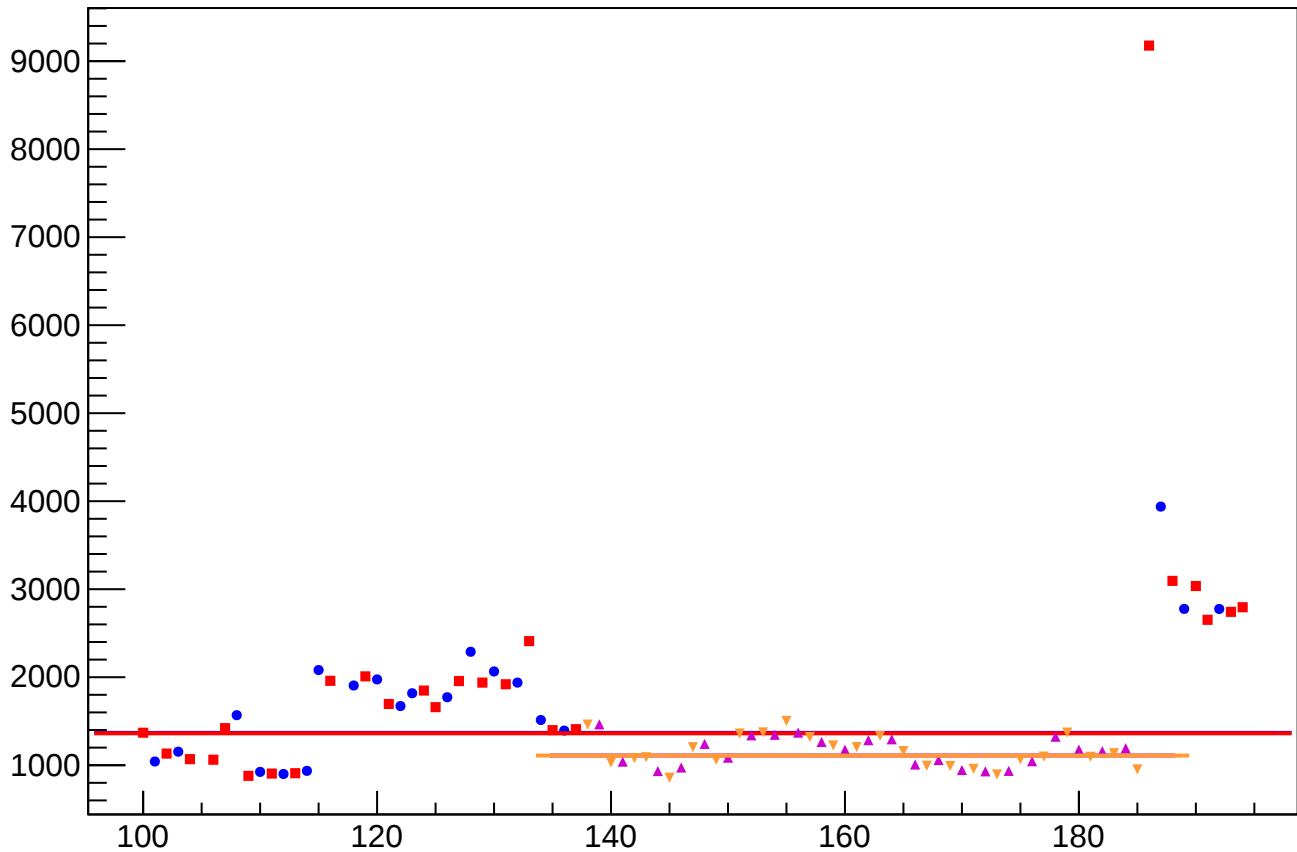
Right: -433.899 $\pm$ 345.344 χ^2 /NDF: 45.1/44

In: -124.279 $\pm$ 238.370 χ^2 /NDF:51.7/42

Out: 830.090 $\pm$ 228.158 χ^2 /NDF:88.0/49

All: 373.787 $\pm$ 164.824 χ^2 /NDF: 148.1/92

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1367.540+/-0.364 χ^2/NDF : 2008875.8/19

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1362.472+/-0.329 χ^2/NDF : 3731902.1/24

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

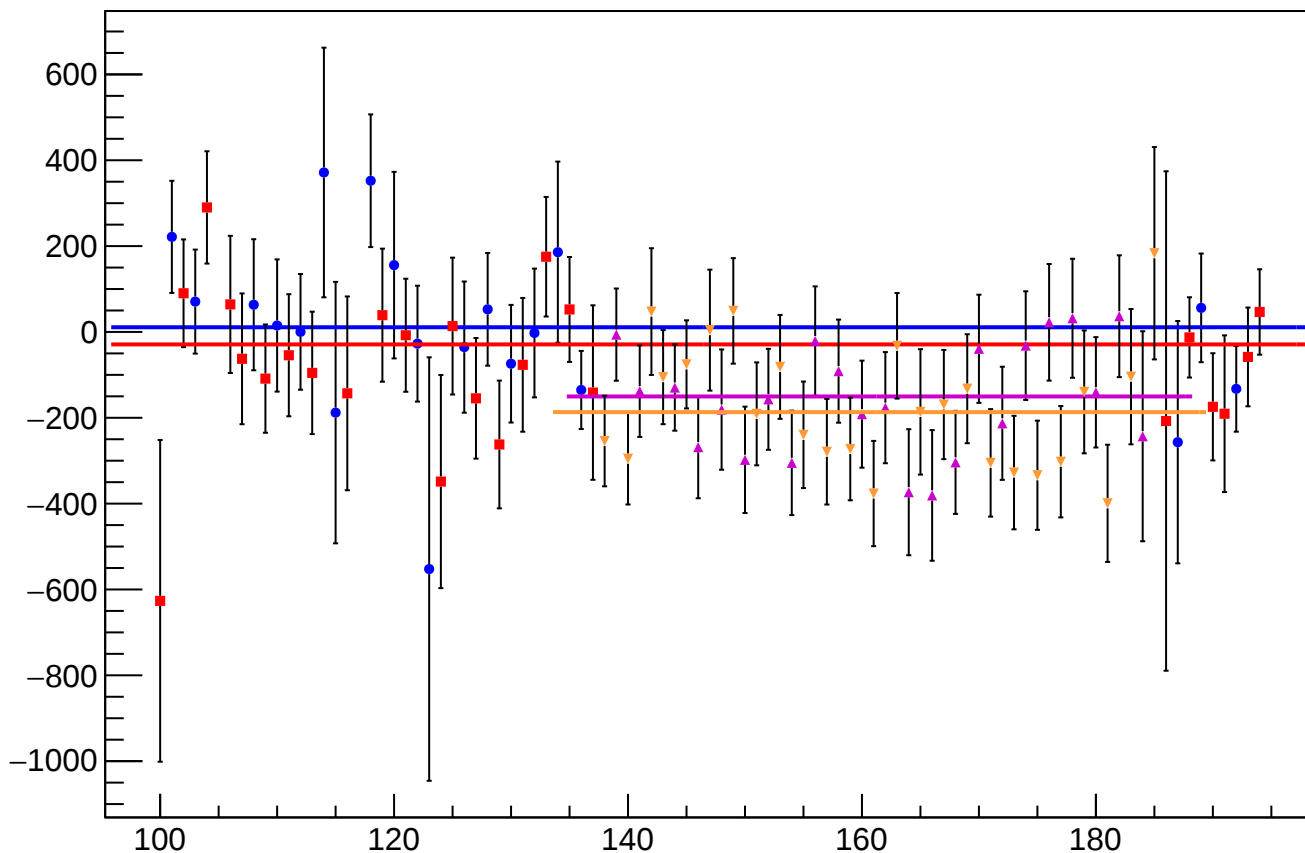
Right: 1364.747+/-0.244 χ^2/NDF : 5740884.5/44

In: 1165.514+/-0.169 χ^2/NDF : 3069713.5/42

Out: 1170.542+/-0.161 χ^2/NDF : 4992272.4/49

All: 1168.138+/-0.117 χ^2/NDF : 8062450.3/92

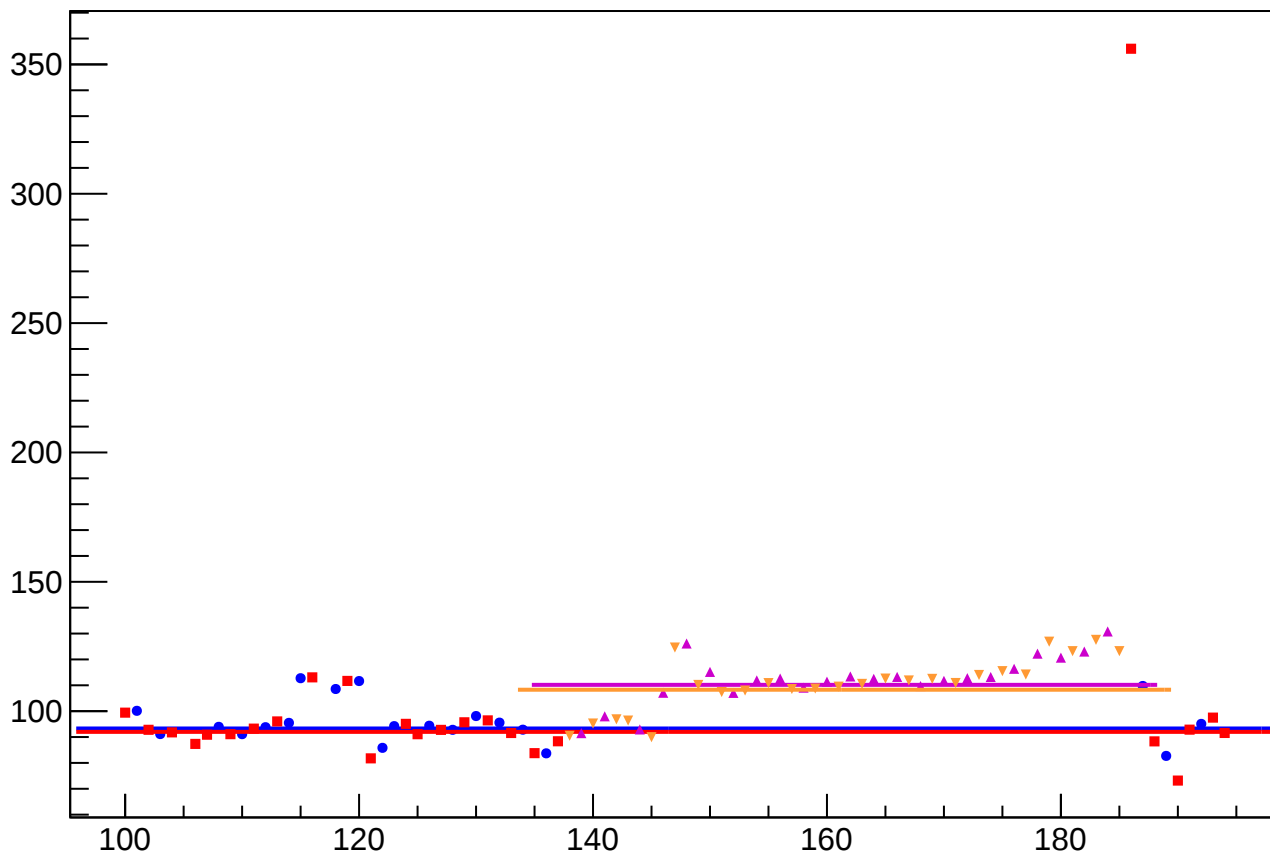
reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 10.917 ± 32.818 $\chi^2/\text{NDF}: 18.6/19$
 Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$
 Right Out: -29.055 ± 28.688 $\chi^2/\text{NDF}: 21.8/24$
 Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$
 Right: -11.741 ± 21.599 $\chi^2/\text{NDF}: 41.2/44$
 In: -86.839 ± 20.592 $\chi^2/\text{NDF}: 53.9/42$
 Out: -117.786 ± 18.979 $\chi^2/\text{NDF}: 65.4/49$
 All: -103.572 ± 13.955 $\chi^2/\text{NDF}: 120.5/92$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 93.303+/-0.023 χ^2/NDF : 101501.7/19

Left Out: 108.287+/-0.018 χ^2/NDF : 330693.5/24

Right Out: 92.001+/-0.020 χ^2/NDF : 544584.5/24

Left In: 110.173+/-0.019 χ^2/NDF : 246967.7/22

Left: 109.189+/-0.013 χ^2/NDF : 582969.0/47

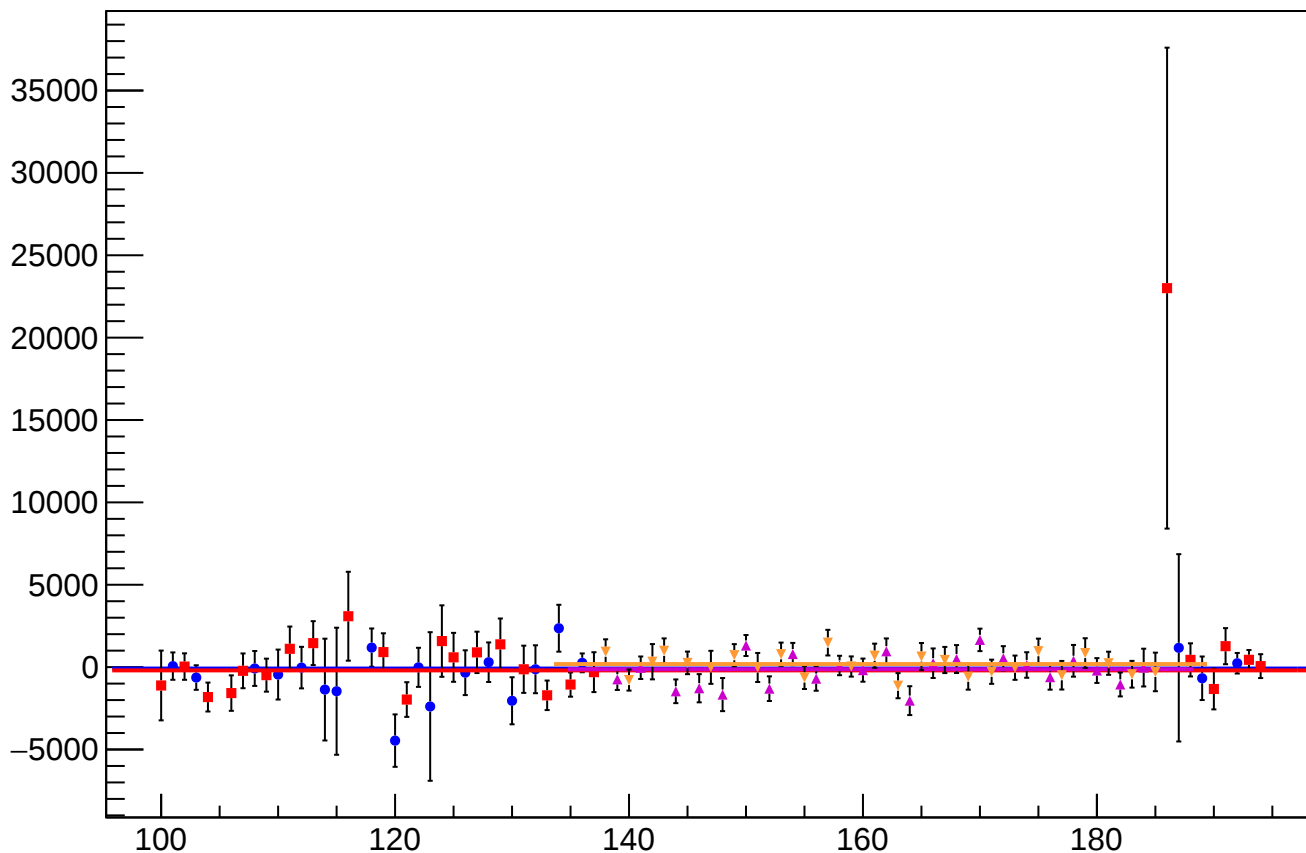
Right: 92.565+/-0.015 χ^2/NDF : 647872.5/44

In: 103.532+/-0.015 χ^2/NDF : 668891.4/42

Out: 101.160+/-0.013 χ^2/NDF : 1237771.1/49

All: 102.249+/-0.010 χ^2/NDF : 1921011.1/92

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -87.254 ± 248.470 χ^2/NDF : 15.8/19

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -197.987 ± 213.563 χ^2/NDF : 26.9/24

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

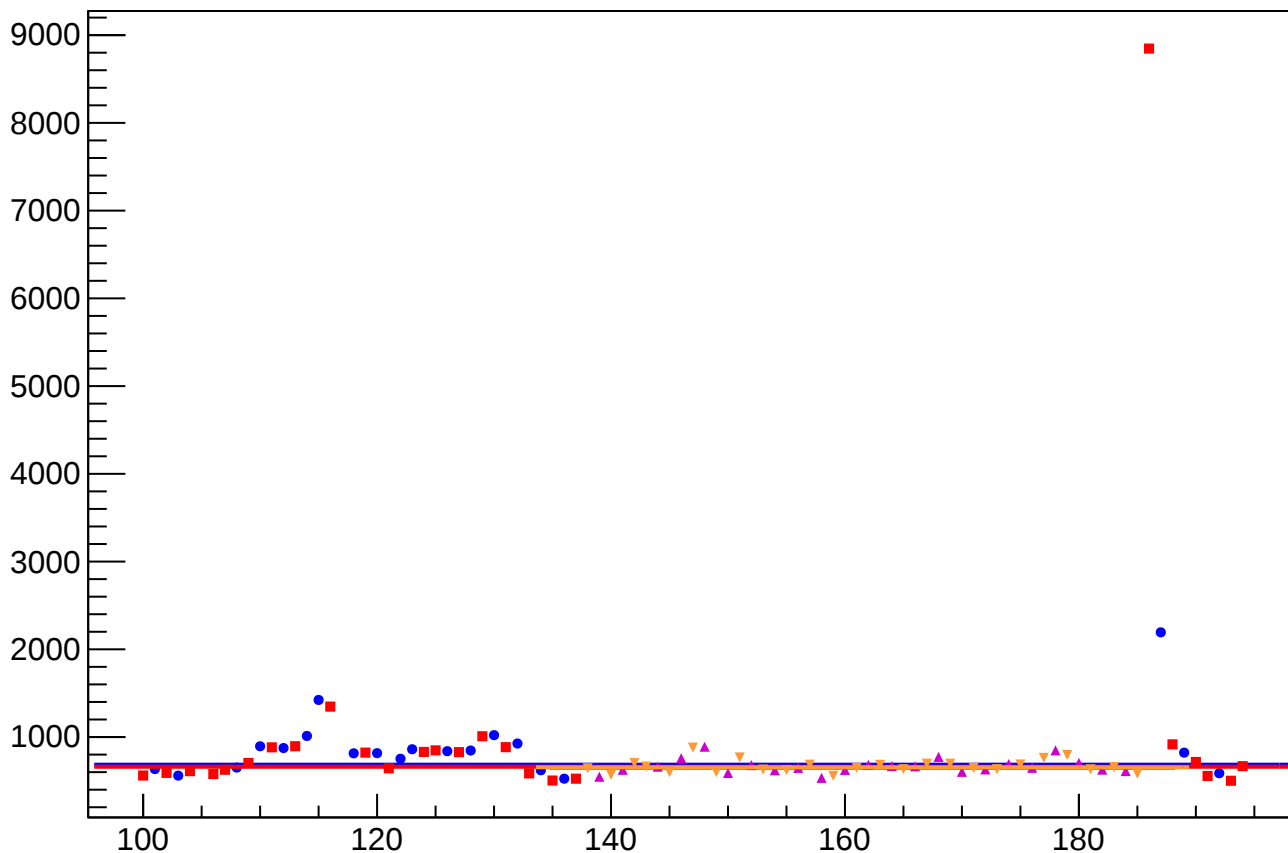
Right: -150.939 ± 161.959 χ^2/NDF : 42.9/44

In: -116.916 ± 132.818 χ^2/NDF : 52.0/42

Out: 54.594 ± 124.742 χ^2/NDF : 47.4/49

All: -25.788 ± 90.927 χ^2/NDF : 100.4/92

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 685.134+/-0.176 χ^2/NDF : 891848.7/19

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 661.474+/-0.151 χ^2/NDF : 1609636.3/24

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

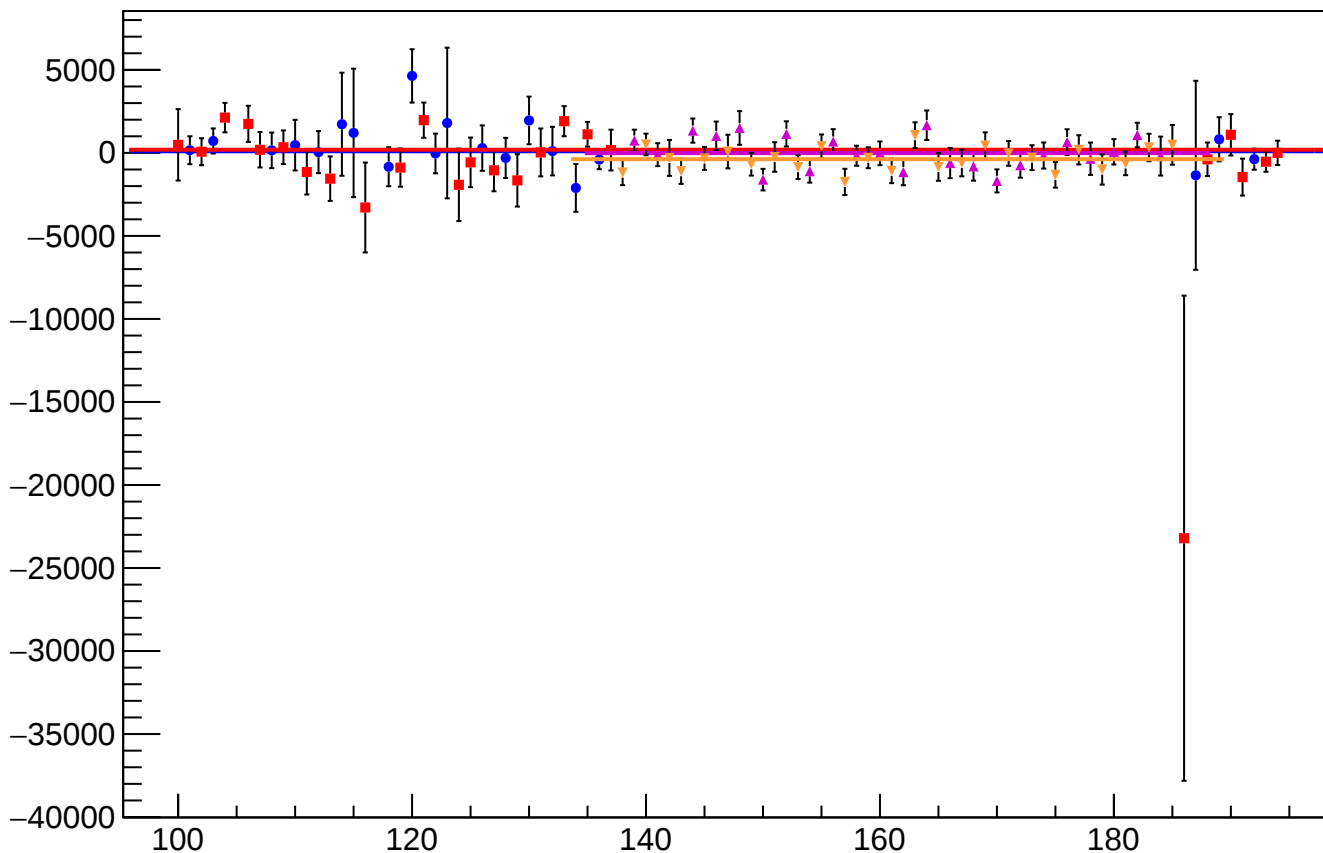
Right: 671.526+/-0.115 χ^2/NDF : 2511914.5/44

In: 660.670+/-0.094 χ^2/NDF : 1385109.6/42

Out: 657.311+/-0.088 χ^2/NDF : 1978139.6/49

All: 658.885+/-0.064 χ^2/NDF : 3363928.8/92

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 98.673 ± 251.066 χ^2/NDF : 15.7/19

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 190.843 ± 215.960 χ^2/NDF : 30.6/24

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

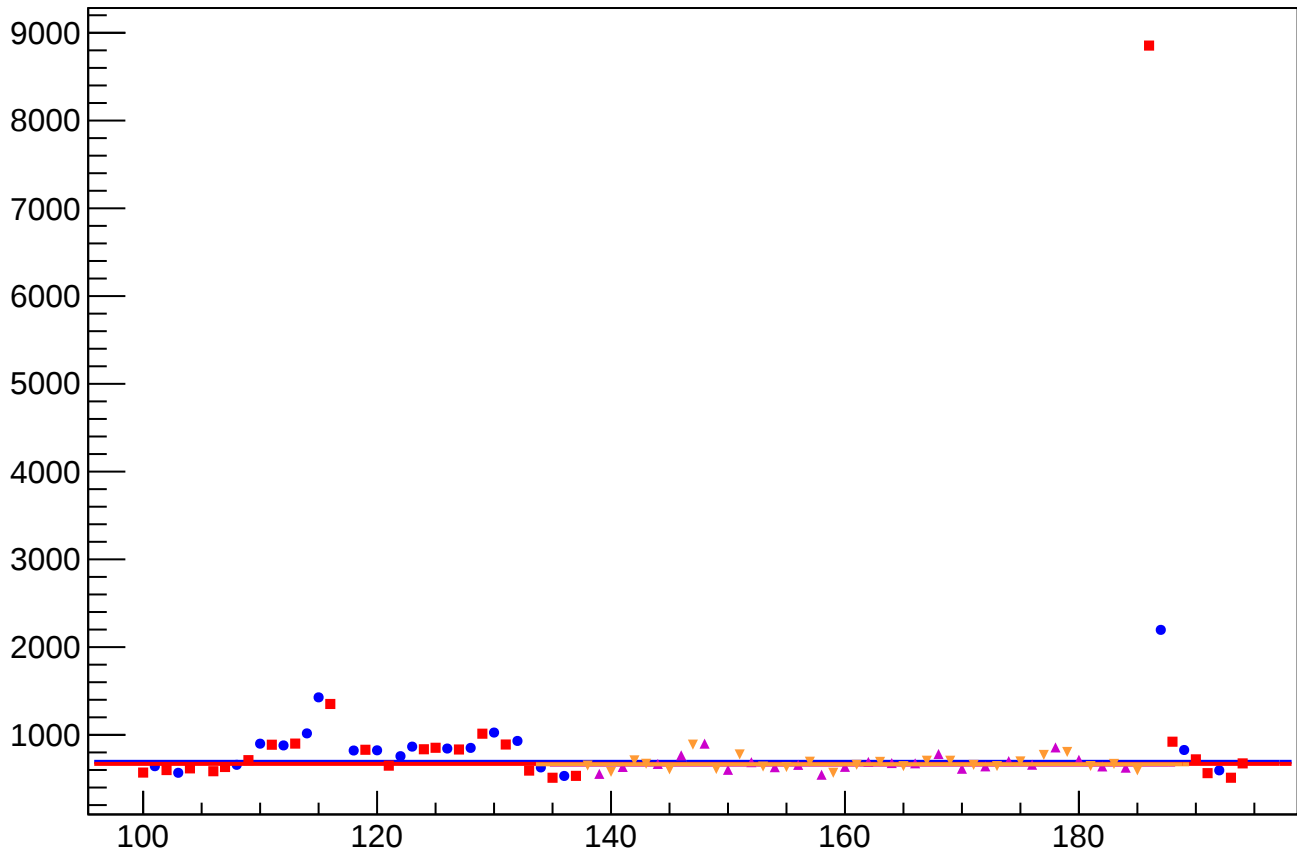
Right: 151.647 ± 163.724 χ^2/NDF : 46.4/44

In: 17.855 ± 134.637 χ^2/NDF : 53.0/42

Out: -184.097 ± 126.400 χ^2/NDF : 54.0/49

All: -89.487 ± 92.153 χ^2/NDF : 108.3/92

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 692.885+/-0.178 χ^2/NDF : 870190.7/19

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 669.603+/-0.153 χ^2/NDF : 1577759.3/24

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

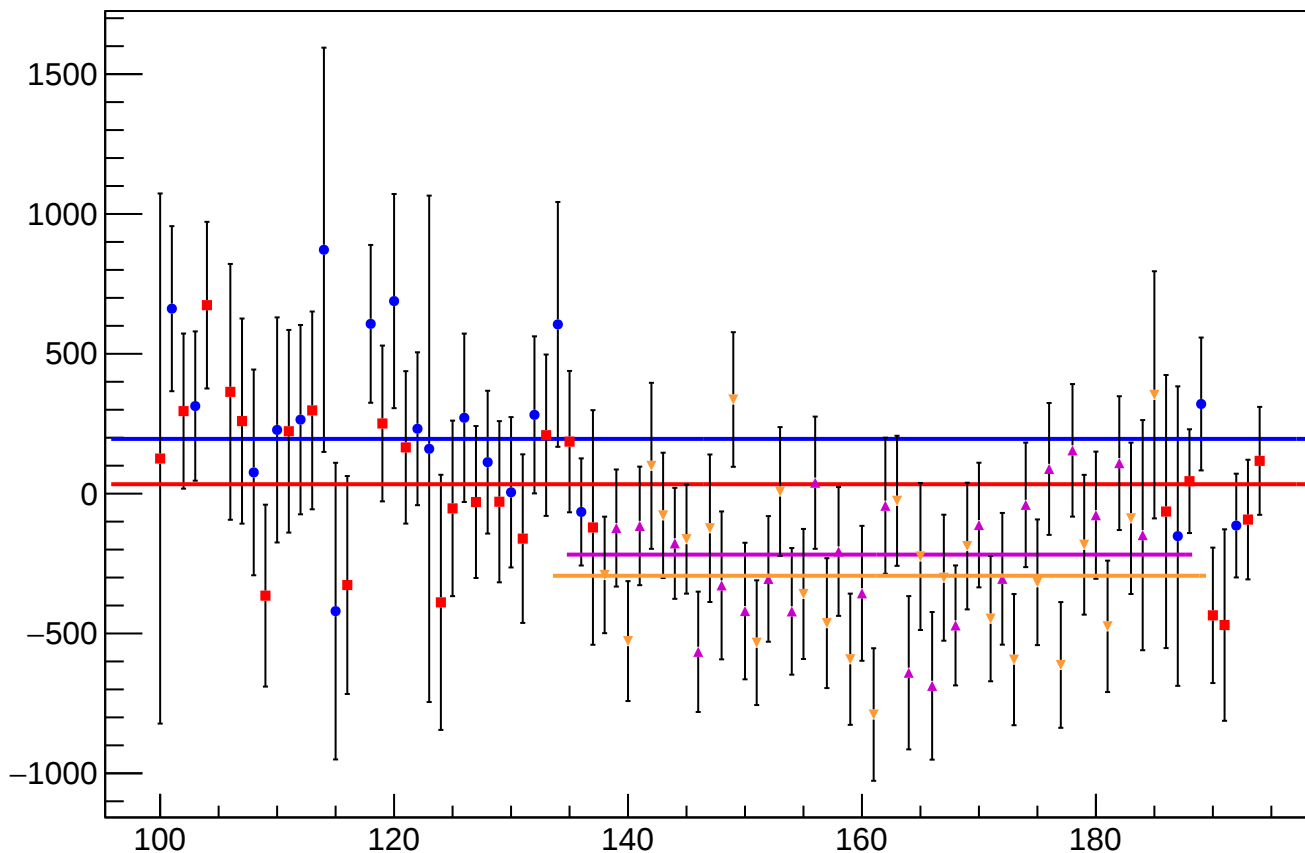
Right: 679.504+/-0.116 χ^2/NDF : 2457834.7/44

In: 670.091+/-0.095 χ^2/NDF : 1342509.8/42

Out: 666.427+/-0.089 χ^2/NDF : 1935471.0/49

All: 668.144+/-0.065 χ^2/NDF : 3278768.0/92

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 195.754 $\pm$ 66.976 χ^2 /NDF: 15.9/19

Left Out: -293.590 $\pm$ 47.203 χ^2 /NDF:30.3/24

Right Out: 33.709 $\pm$ 58.919 χ^2 /NDF: 19.3/24

Left In: -217.964 $\pm$ 48.819 χ^2 /NDF:21.3/22

Left: -257.050 $\pm$ 33.934 χ^2 /NDF: 52.9/47

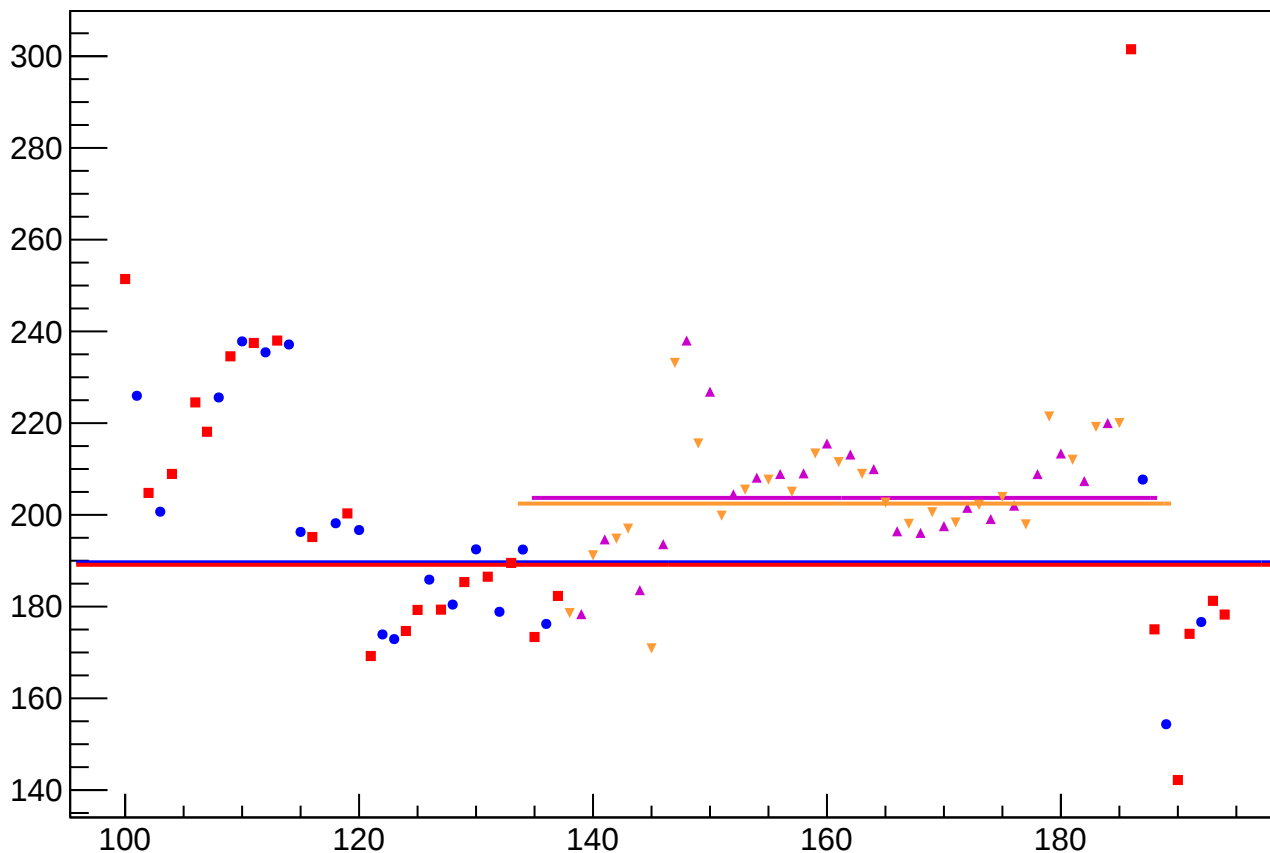
Right: 104.403 $\pm$ 44.238 χ^2 /NDF: 38.4/44

In: -74.422 $\pm$ 39.451 χ^2 /NDF:62.1/42

Out: -165.640 $\pm$ 36.839 χ^2 /NDF:68.4/49

All: -123.151 $\pm$ 26.925 χ^2 /NDF: 133.3/92

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 189.655 $\pm$ 0.047 χ^2 /NDF: 209065.0/19

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 189.122 $\pm$ 0.042 χ^2 /NDF: 396475.5/24

Left In: 203.699 $\pm$ 0.035 χ^2 /NDF:136193.4/22

Left: 203.058 $\pm$ 0.024 χ^2 /NDF: 295442.7/47

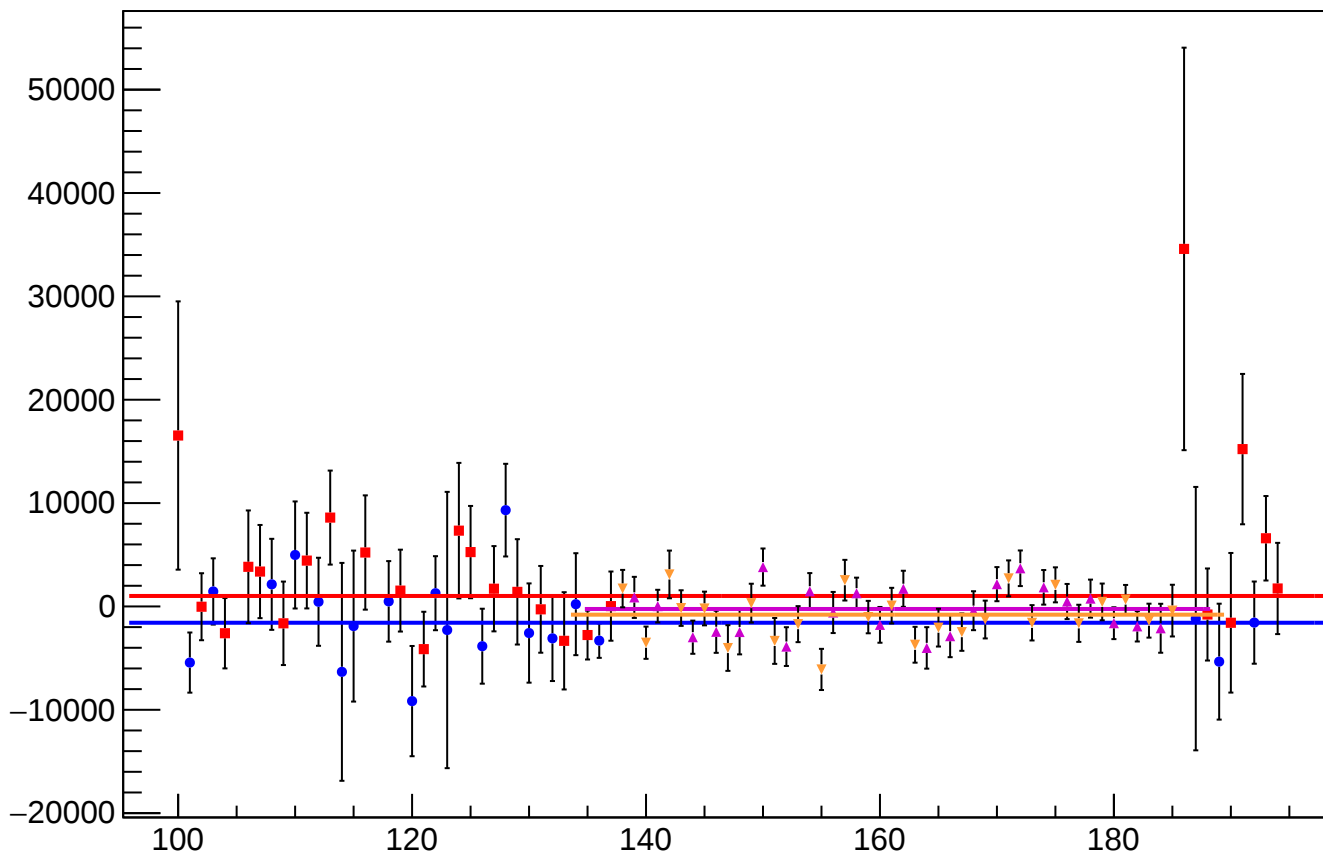
Right: 189.355 $\pm$ 0.031 χ^2 /NDF: 605611.9/44

In: 198.826 $\pm$ 0.028 χ^2 /NDF:402679.8/42

Out: 197.245 $\pm$ 0.026 χ^2 /NDF:617467.5/49

All: 197.982 $\pm$ 0.019 χ^2 /NDF: 1021863.6/92

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1577.744+/-876.371 χ^2/NDF : 16.5/19

Left Out: -796.528+/-357.851 χ^2/NDF : 35.7/24

Right Out: 1013.593+/-862.195 χ^2/NDF : 24.0/24

Left In: -245.102+/-369.846 χ^2/NDF : 35.7/22

Left: -529.902+/-257.175 χ^2/NDF : 72.6/47

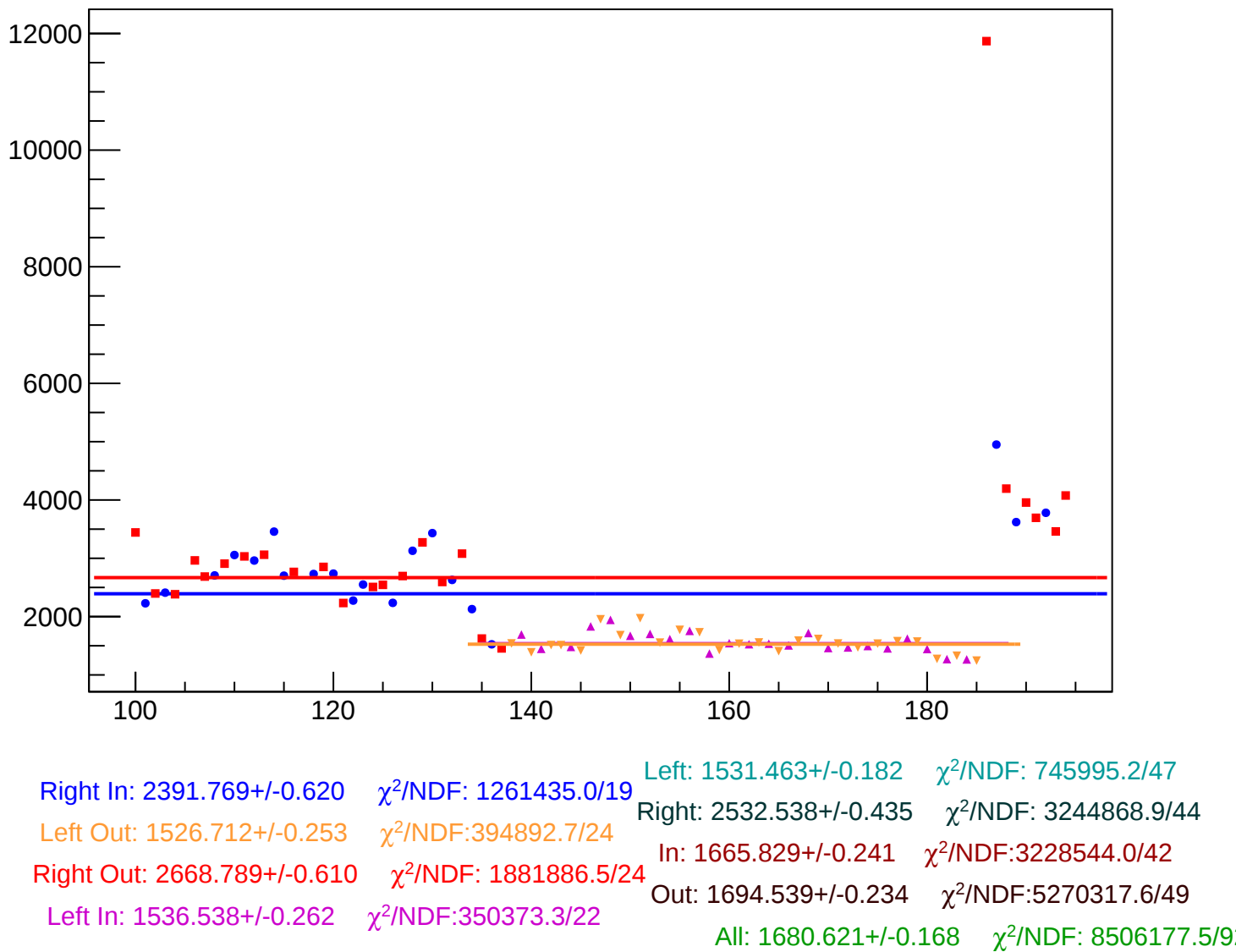
Right: -260.947+/-614.614 χ^2/NDF : 44.9/44

In: -446.566+/-340.745 χ^2/NDF : 54.1/42

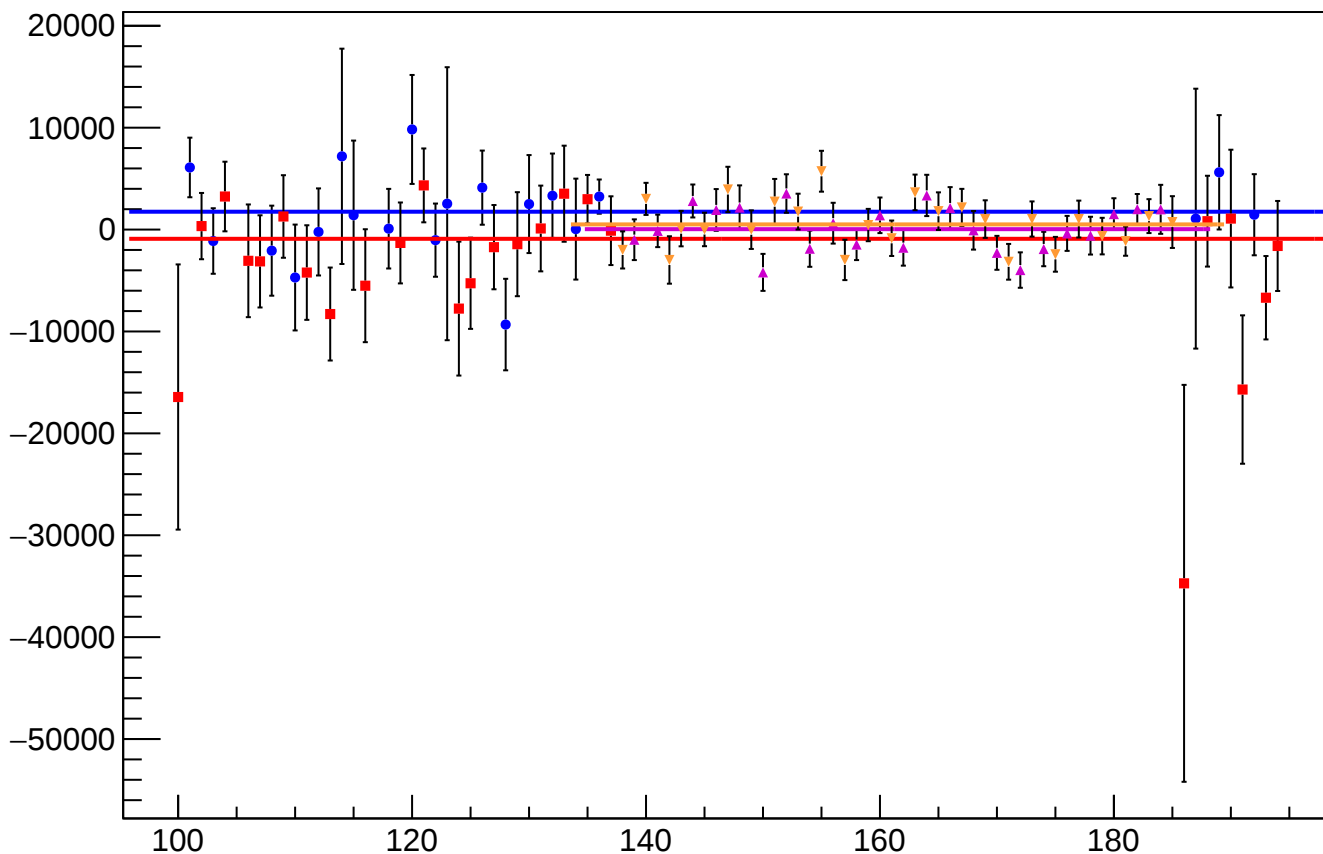
Out: -530.531+/-330.514 χ^2/NDF : 63.5/49

All: -489.828+/-237.243 χ^2/NDF : 117.7/92

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1752.598 $\pm$ 880.013 χ^2 /NDF: 16.9/19

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -906.011 $\pm$ 865.315 χ^2 /NDF: 24.8/24

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF:33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

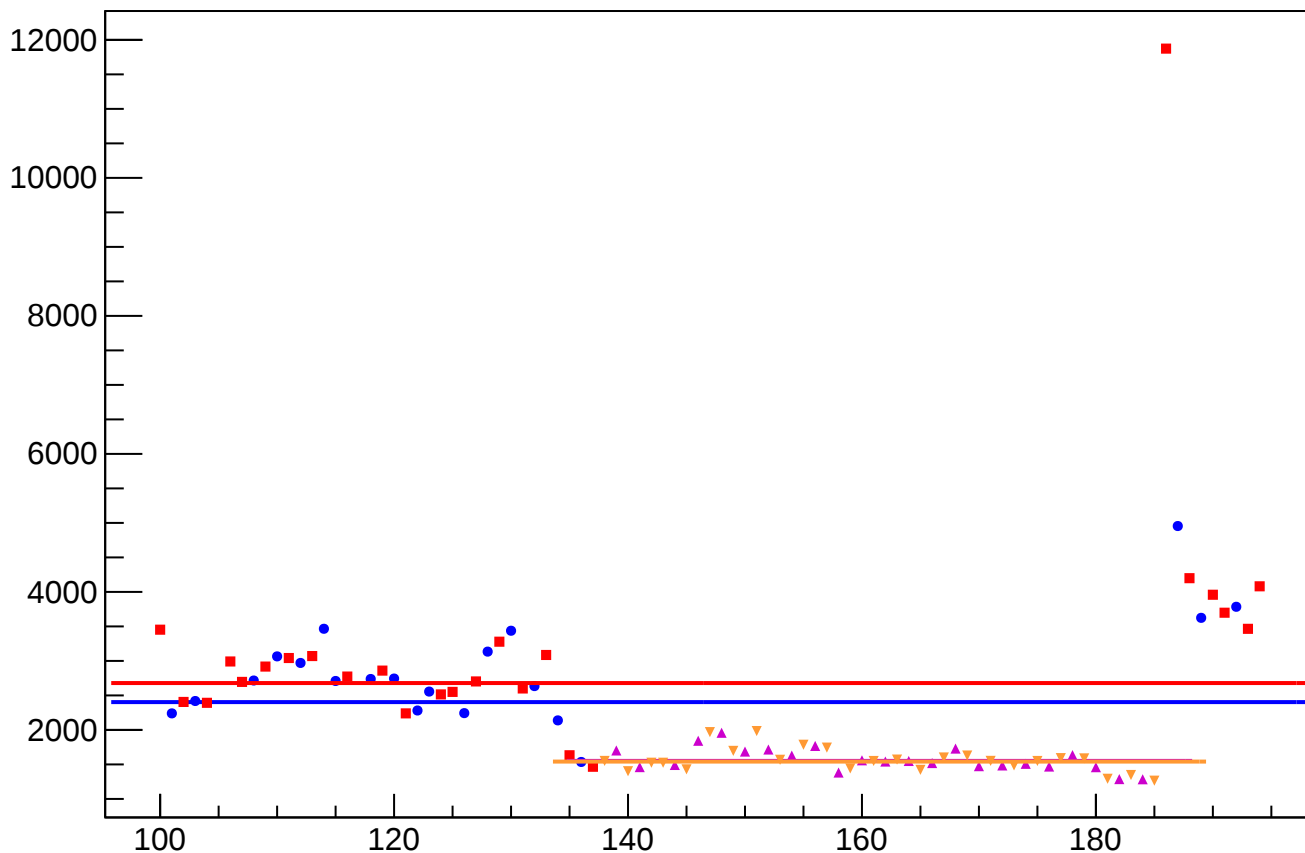
Right: 400.905 $\pm$ 617.001 χ^2 /NDF: 46.3/44

In: 301.196 $\pm$ 343.628 χ^2 /NDF:53.7/42

Out: 298.193 $\pm$ 333.304 χ^2 /NDF:62.4/49

All: 299.649 $\pm$ 239.248 χ^2 /NDF: 116.1/92

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2403.180 ± 0.622 $\chi^2/\text{NDF}: 1244497.3/19$

Left Out: 1541.258 ± 0.255 $\chi^2/\text{NDF}: 382045.4/24$

Right Out: 2679.296 ± 0.612 $\chi^2/\text{NDF}: 1864802.7/24$

Left In: 1551.063 ± 0.264 $\chi^2/\text{NDF}: 338898.9/22$

Left: 1546.000 ± 0.184 $\chi^2/\text{NDF}: 721657.1/47$

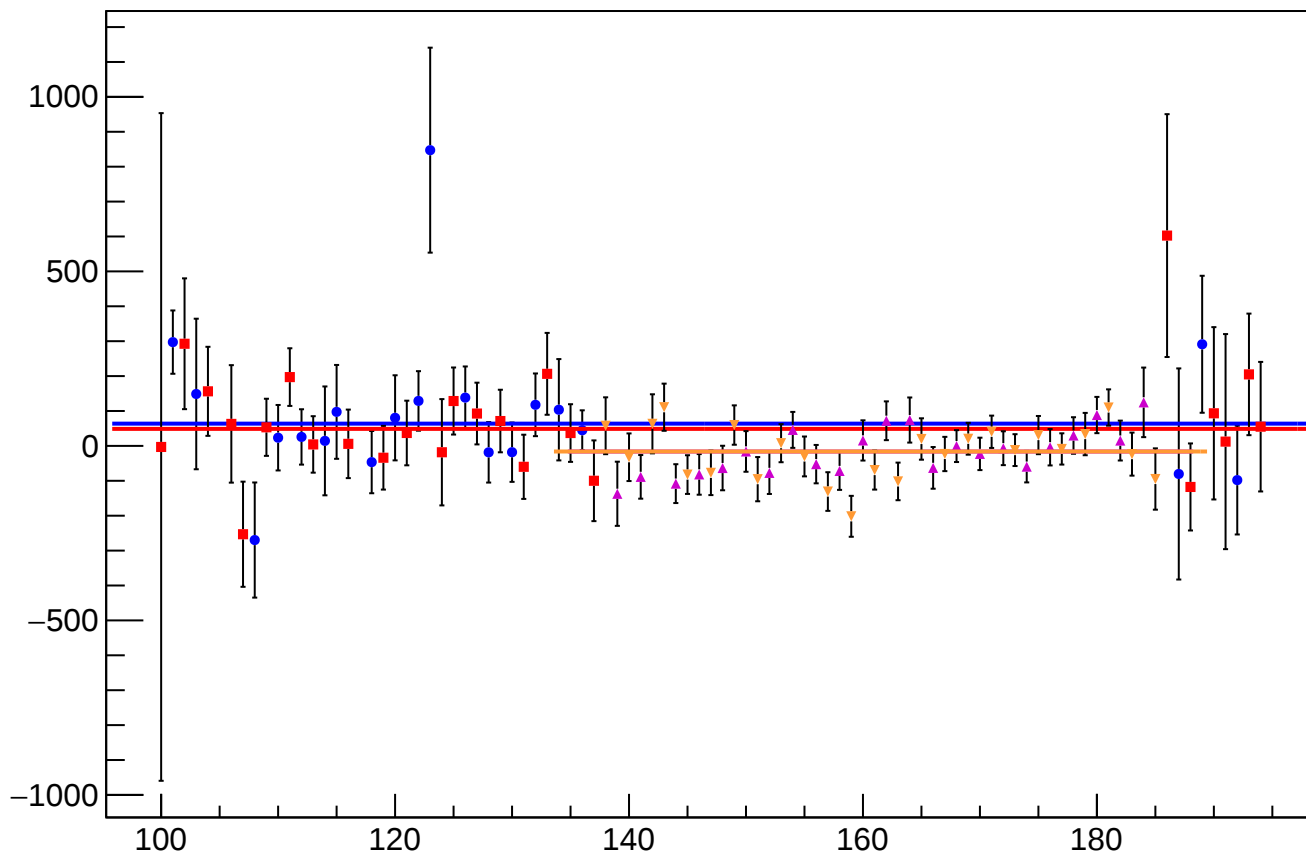
Right: 2543.563 ± 0.436 $\chi^2/\text{NDF}: 3209405.2/44$

In: 1680.990 ± 0.243 $\chi^2/\text{NDF}: 3172683.7/42$

Out: 1710.104 ± 0.236 $\chi^2/\text{NDF}: 5192950.8/49$

All: 1695.991 ± 0.169 $\chi^2/\text{NDF}: 8373031.9/92$

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 63.763 ± 23.285 χ^2/NDF : 26.4/19

Left Out: -16.049 ± 11.340 χ^2/NDF : 39.7/24

Right Out: 48.773 ± 22.720 χ^2/NDF : 22.2/24

Left In: -16.162 ± 11.649 χ^2/NDF : 25.2/22

Left: -16.104 ± 8.126 χ^2/NDF : 64.9/47

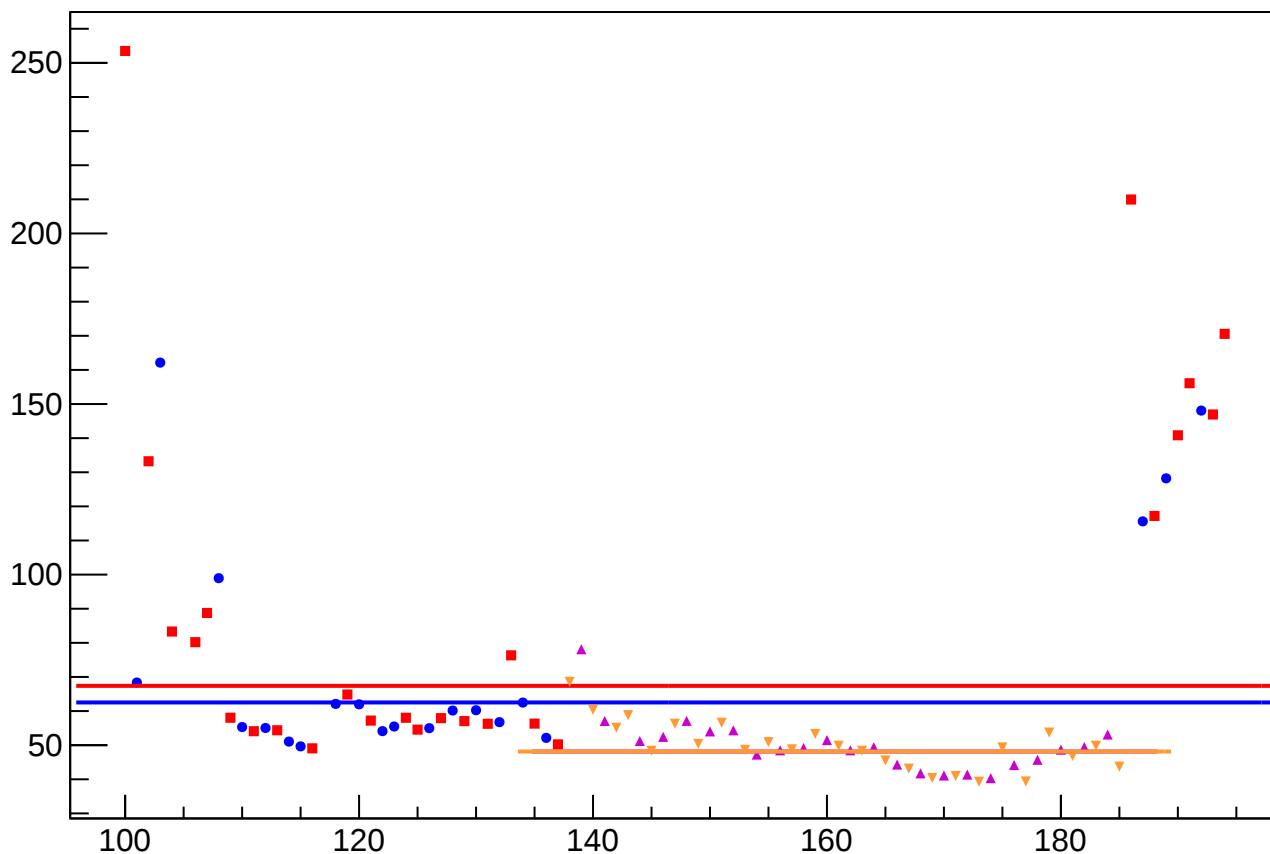
Right: 56.084 ± 16.262 χ^2/NDF : 48.9/44

In: -0.161 ± 10.418 χ^2/NDF : 61.1/42

Out: -3.122 ± 10.146 χ^2/NDF : 68.4/49

All: -1.681 ± 7.269 χ^2/NDF : 129.5/92

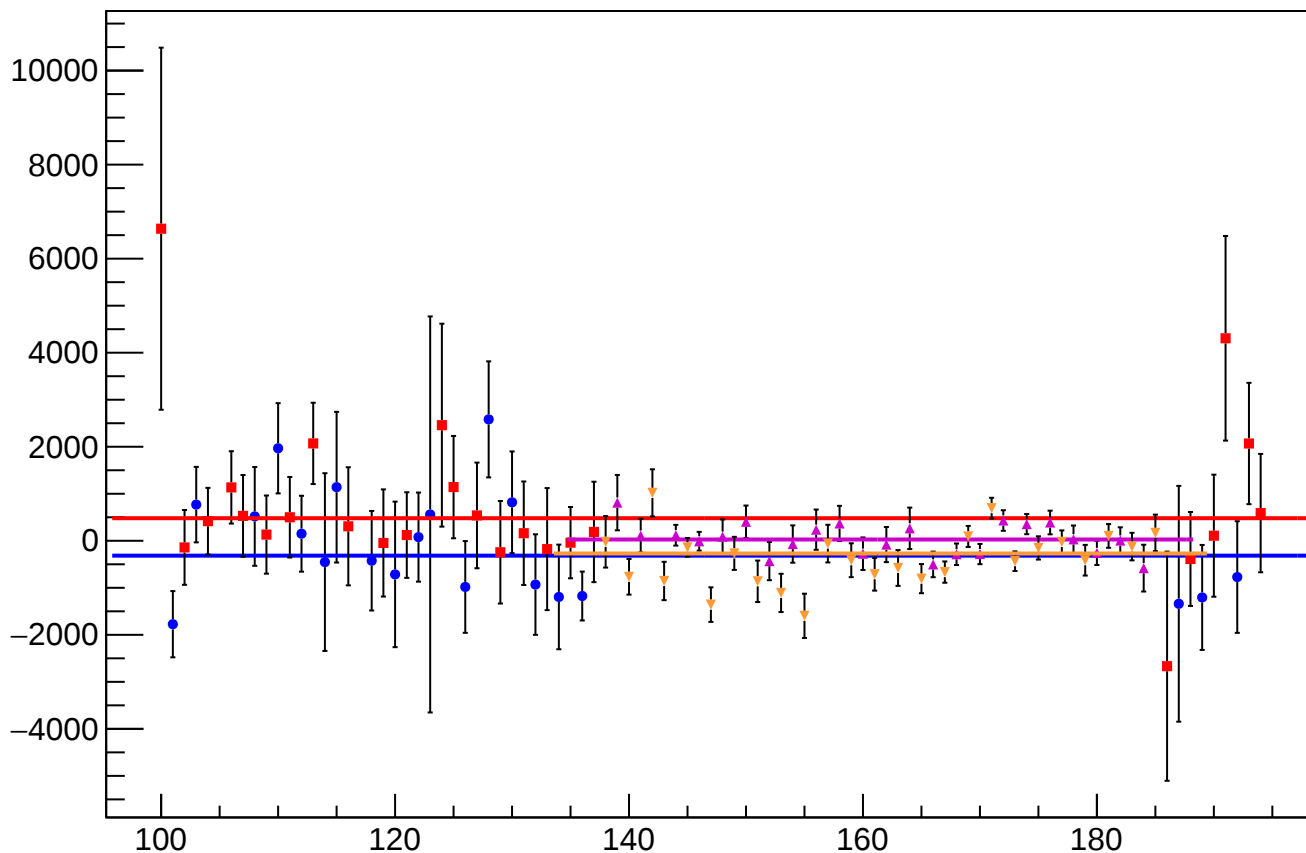
reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.525 ± 0.016 $\chi^2/\text{NDF}: 1592154.6/19$
 Left Out: 48.141 ± 0.008 $\chi^2/\text{NDF}: 655250.3/24$
 Right Out: 67.394 ± 0.016 $\chi^2/\text{NDF}: 2877238.4/24$
 Left In: 48.139 ± 0.008 $\chi^2/\text{NDF}: 575025.5/22$

Left: 48.140 ± 0.006 $\chi^2/\text{NDF}: 1230275.9/47$
 Right: 65.019 ± 0.011 $\chi^2/\text{NDF}: 4514197.7/44$
 In: 51.019 ± 0.007 $\chi^2/\text{NDF}: 2777733.3/42$
 Out: 51.980 ± 0.007 $\chi^2/\text{NDF}: 4682250.0/49$
 All: 51.512 ± 0.005 $\chi^2/\text{NDF}: 7468721.9/92$

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -316.195+/-224.382 χ^2/NDF : 25.6/19

Left Out: -270.214+/-60.177 χ^2/NDF : 70.1/24

Right Out: 480.212+/-206.939 χ^2/NDF : 17.5/24

Left In: 27.271+/-60.430 χ^2/NDF : 25.1/22

Left: -122.095+/-42.641 χ^2/NDF : 107.3/47

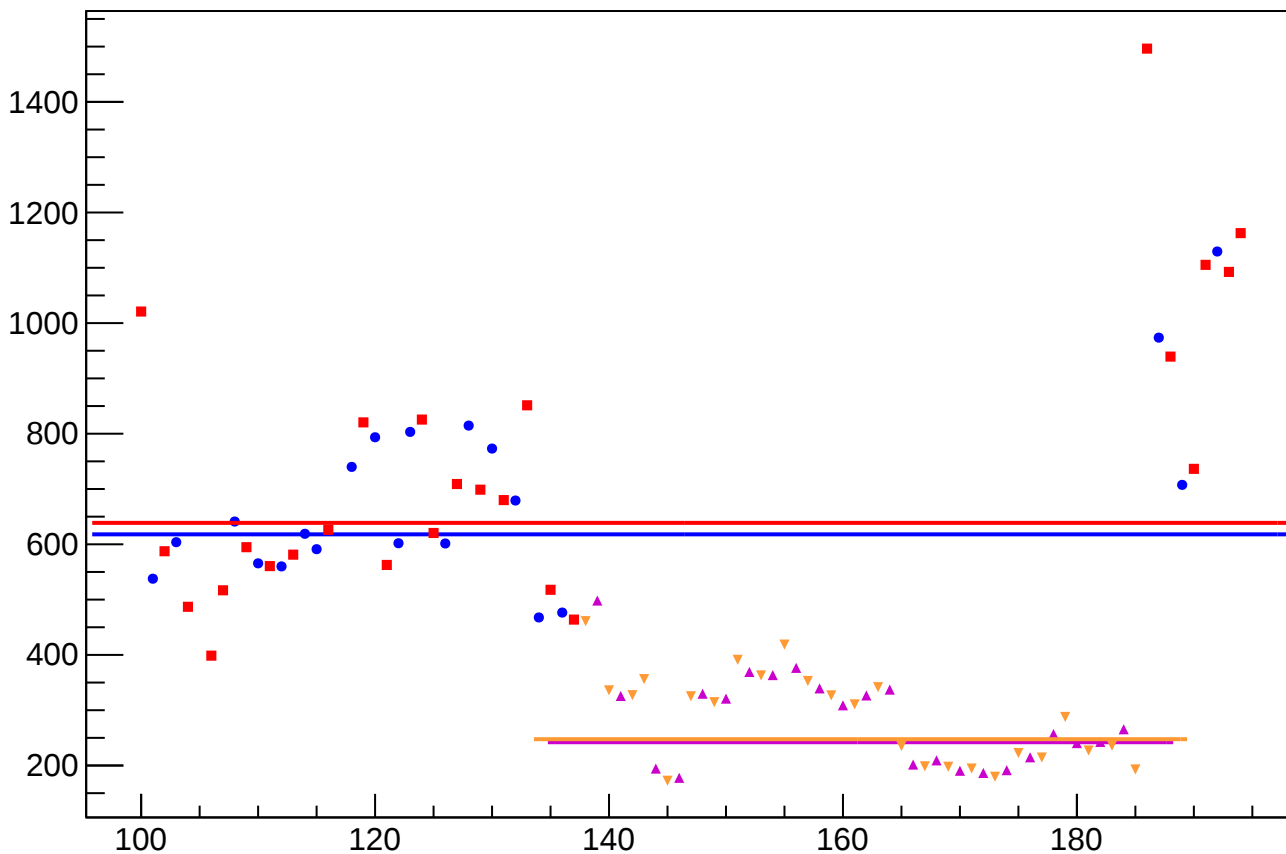
Right: 114.164+/-152.121 χ^2/NDF : 49.9/44

In: 4.044+/-58.351 χ^2/NDF : 52.8/42

Out: -211.703+/-57.784 χ^2/NDF : 99.7/49

All: -104.883+/-41.058 χ^2/NDF : 159.5/92

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 618.015+/-0.159 χ^2/NDF : 809196.6/19

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 638.764+/-0.146 χ^2/NDF : 1766383.1/24

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

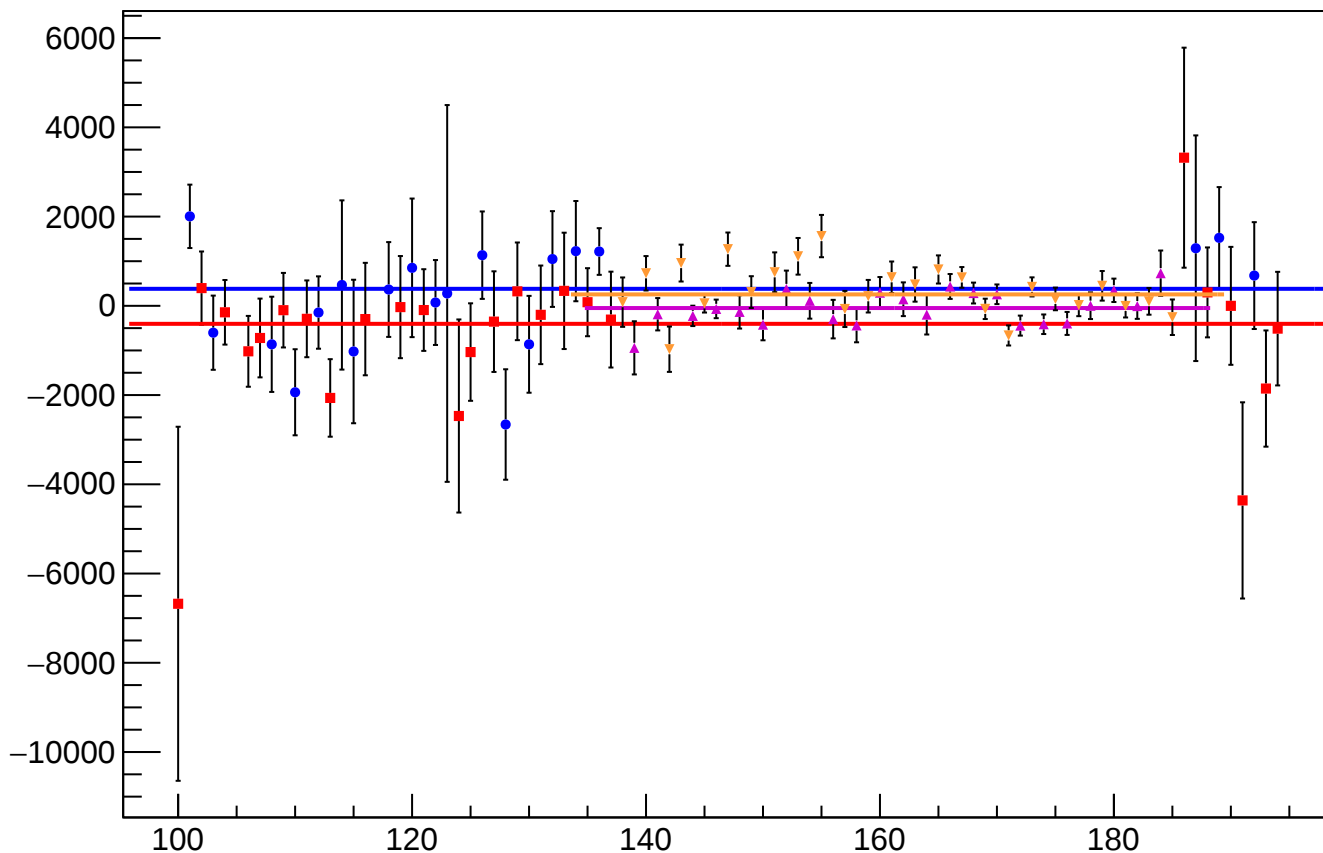
Right: 629.227+/-0.108 χ^2/NDF : 2584820.7/44

In: 267.538+/-0.041 χ^2/NDF : 8508730.9/42

Out: 278.072+/-0.041 χ^2/NDF : 11137160.2/49

All: 272.856+/-0.029 χ^2/NDF : 19678799.6/92

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 381.197 $\pm$ 226.380 χ^2 /NDF: 27.8/19

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -403.571 $\pm$ 209.305 χ^2 /NDF: 18.2/24

Left In: -49.832 $\pm$ 61.781 χ^2 /NDF:27.5/22

Left: 103.982 $\pm$ 43.557 χ^2 /NDF: 103.4/47

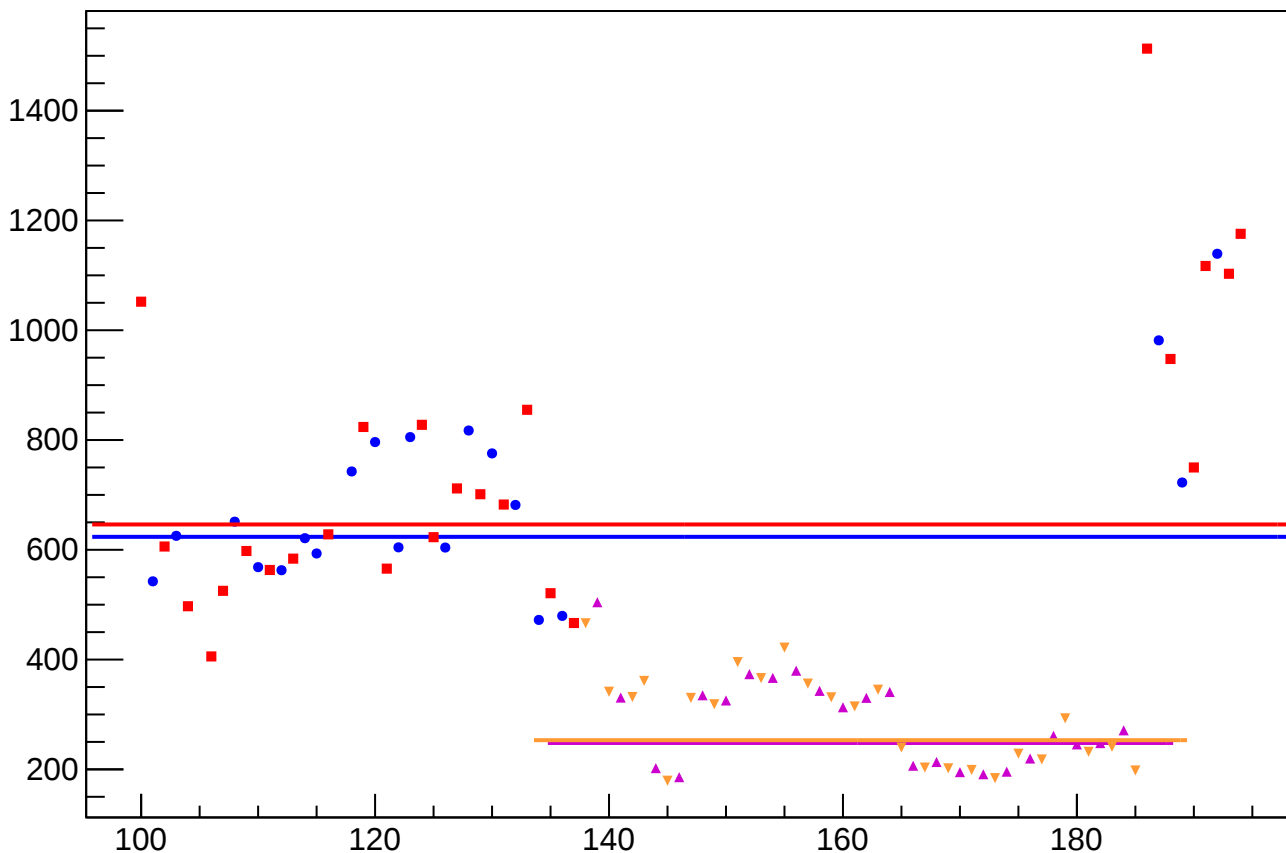
Right: -41.895 $\pm$ 153.683 χ^2 /NDF: 52.4/44

In: -19.954 $\pm$ 59.601 χ^2 /NDF:58.7/42

Out: 203.705 $\pm$ 58.934 χ^2 /NDF:90.9/49

All: 93.135 $\pm$ 41.906 χ^2 /NDF: 156.7/92

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 623.604 $\pm$ 0.160 χ^2 /NDF: 809306.4/19

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 646.179 $\pm$ 0.148 χ^2 /NDF: 1743519.0/24

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF: 2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

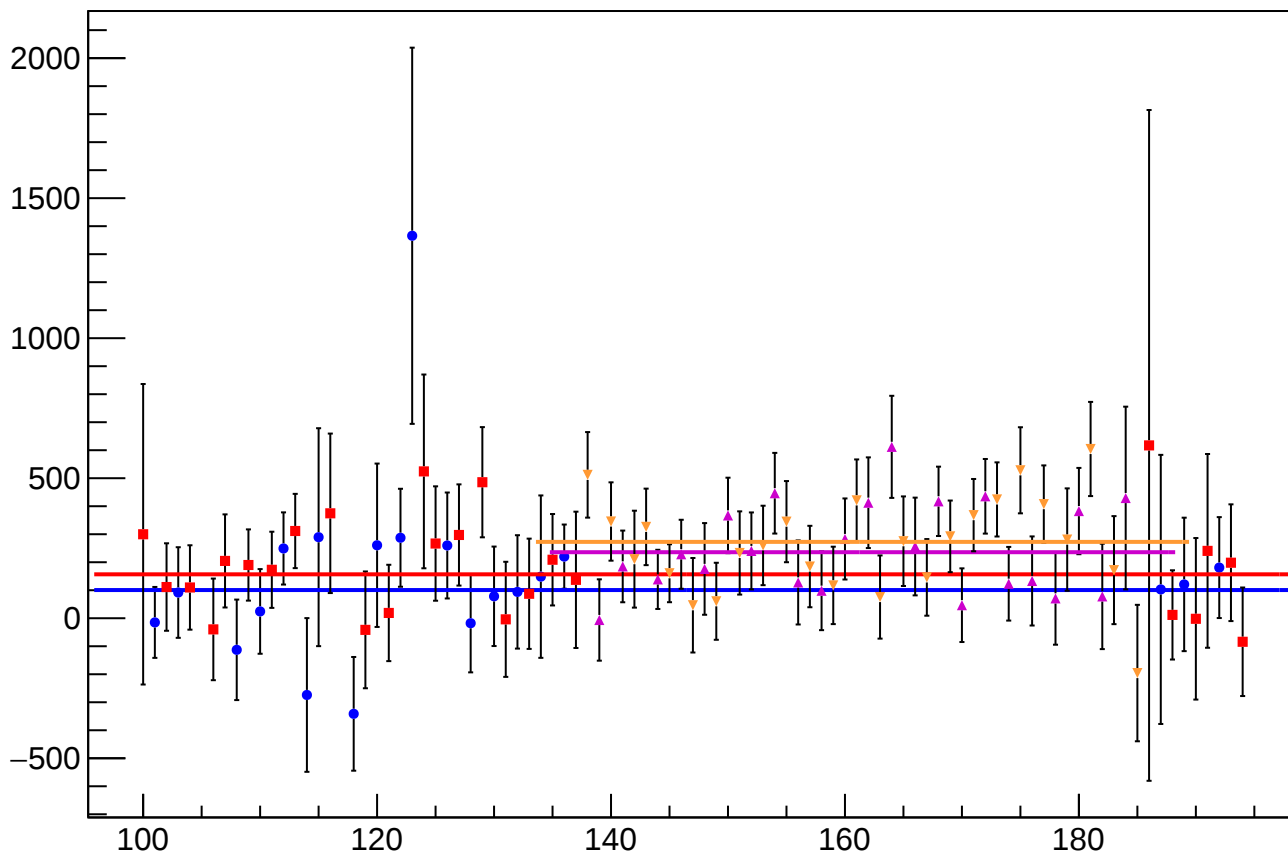
Right: 635.775 $\pm$ 0.109 χ^2 /NDF: 2563547.8/44

In: 274.099 $\pm$ 0.042 χ^2 /NDF: 8274811.2/42

Out: 284.297 $\pm$ 0.042 χ^2 /NDF: 10902932.0/49

All: 279.256 $\pm$ 0.030 χ^2 /NDF: 19207348.7/92

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 100.655+/-41.390 χ^2/NDF : 18.2/19

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 156.821+/-37.803 χ^2/NDF : 13.7/24

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

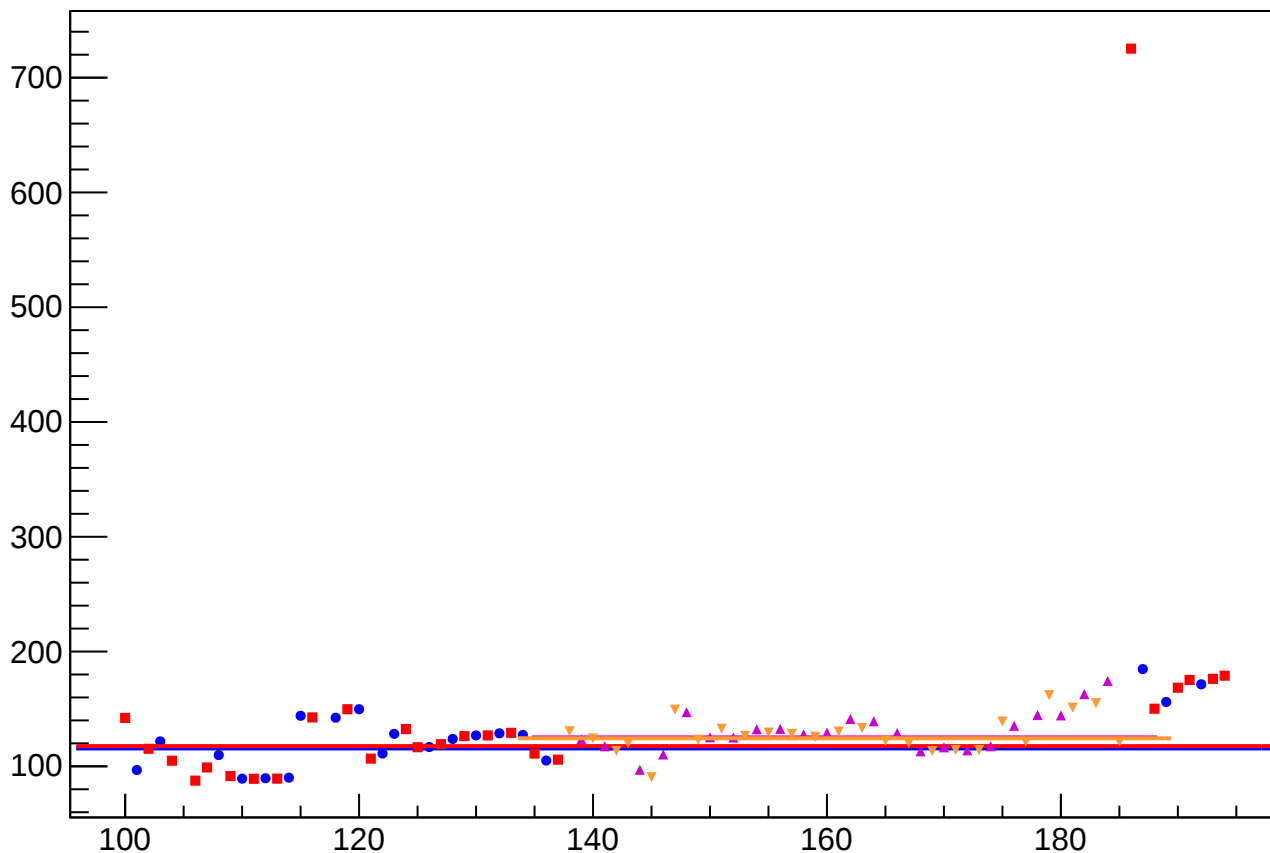
Right: 131.277+/-27.913 χ^2/NDF : 32.8/44

In: 188.784+/-24.413 χ^2/NDF : 49.7/42

Out: 229.348+/-23.119 χ^2/NDF : 47.0/49

All: 210.169+/-16.787 χ^2/NDF : 98.2/92

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 115.586 $\pm$ 0.029 χ^2 /NDF: 615529.2/19

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 117.597 $\pm$ 0.027 χ^2 /NDF: 1534812.1/24

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

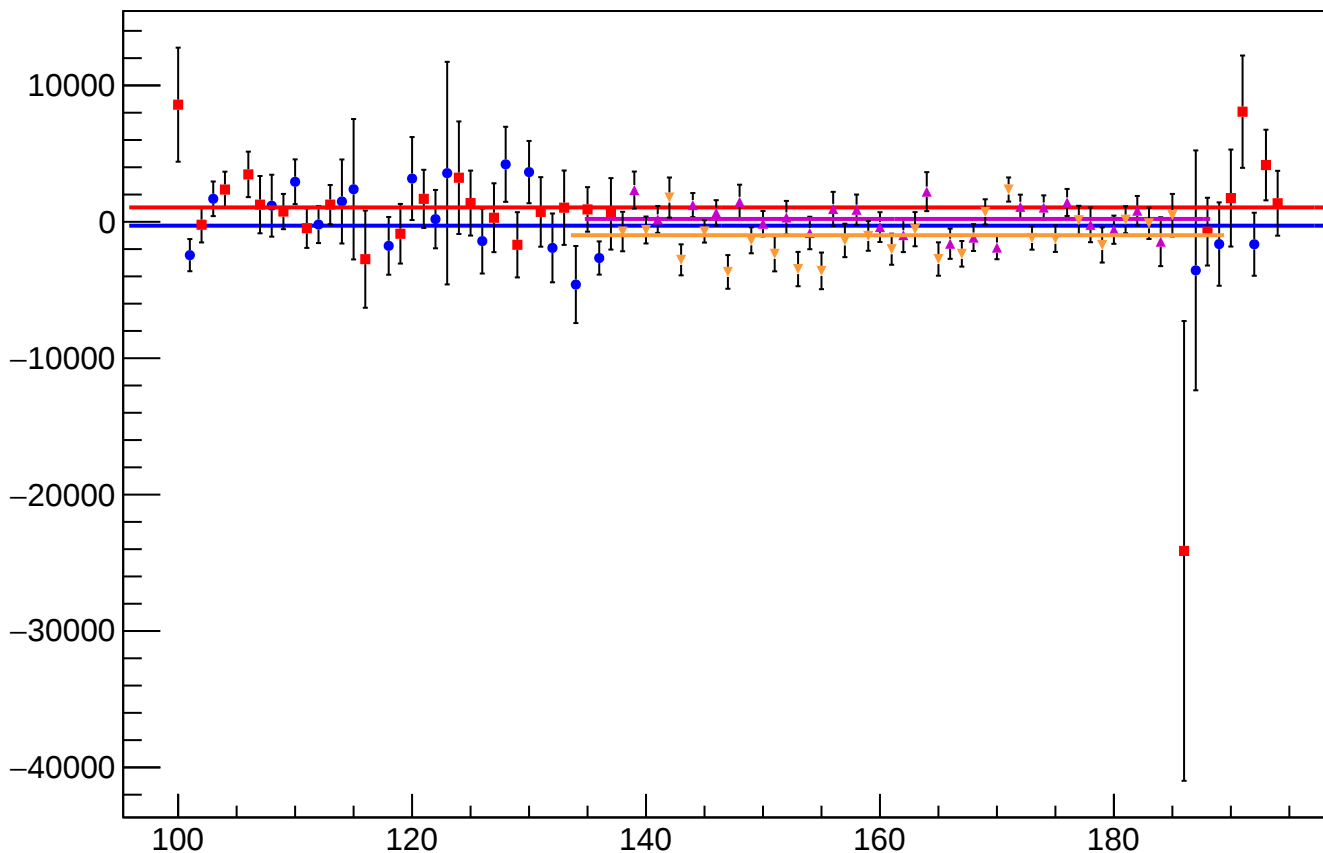
Right: 116.682 $\pm$ 0.020 χ^2 /NDF: 2152913.8/44

In: 121.859 $\pm$ 0.017 χ^2 /NDF: 1187352.7/42

Out: 121.873 $\pm$ 0.016 χ^2 /NDF: 2115434.3/49

All: 121.866 $\pm$ 0.012 χ^2 /NDF: 3302787.4/92

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -282.633 ± 450.962 χ^2/NDF : 25.8/19

Left Out: -982.839 ± 218.021 χ^2/NDF : 47.2/24

Right Out: 1055.642 ± 411.872 χ^2/NDF : 19.4/24

Left In: 211.420 ± 223.296 χ^2/NDF : 25.7/22

Left: -399.983 ± 155.996 χ^2/NDF : 87.5/47

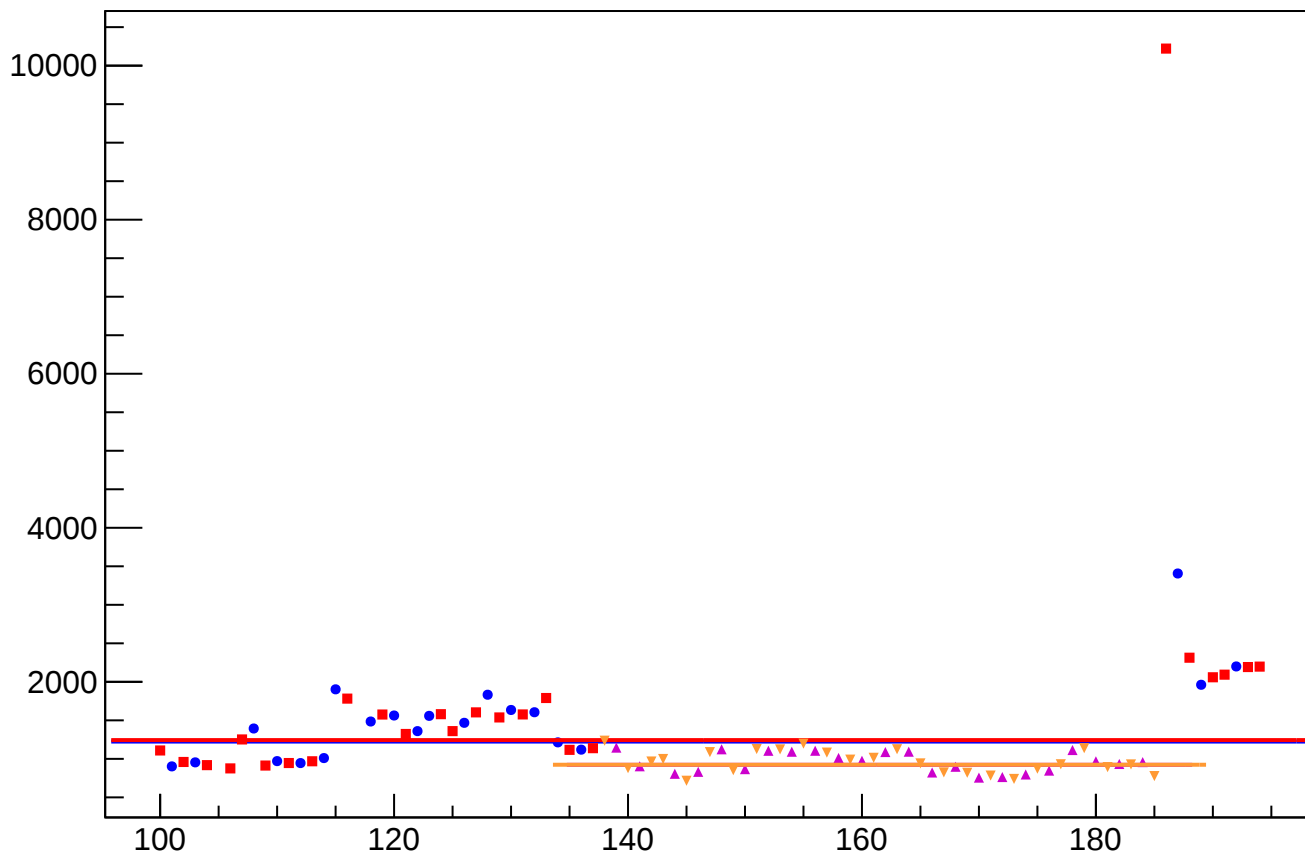
Right: 447.011 ± 304.120 χ^2/NDF : 50.0/44

In: 114.140 ± 200.109 χ^2/NDF : 52.4/42

Out: -536.669 ± 192.690 χ^2/NDF : 85.8/49

All: -223.551 ± 138.801 χ^2/NDF : 143.6/92

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1224.630+/-0.319 χ^2/NDF : 1333318.6/19

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1243.606+/-0.291 χ^2/NDF : 2639421.2/24

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

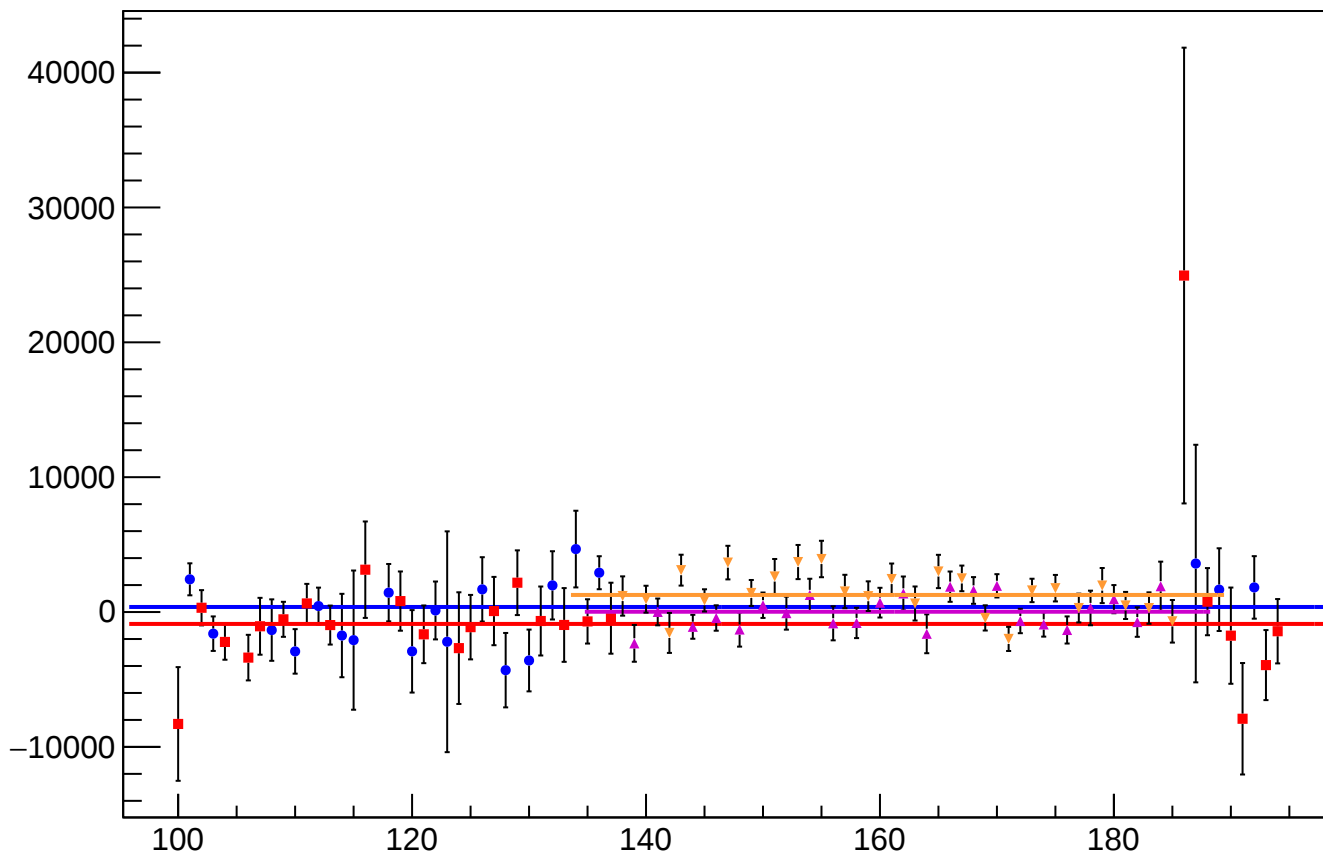
Right: 1234.976+/-0.215 χ^2/NDF : 3974670.6/44

In: 981.785+/-0.141 χ^2/NDF : 2690199.0/42

Out: 993.630+/-0.136 χ^2/NDF : 4425329.0/49

All: 987.931+/-0.098 χ^2/NDF : 7119163.9/92

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 376.026+/-453.126 χ^2/NDF : 26.0/19

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -881.364+/-414.020 χ^2/NDF : 19.5/24

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

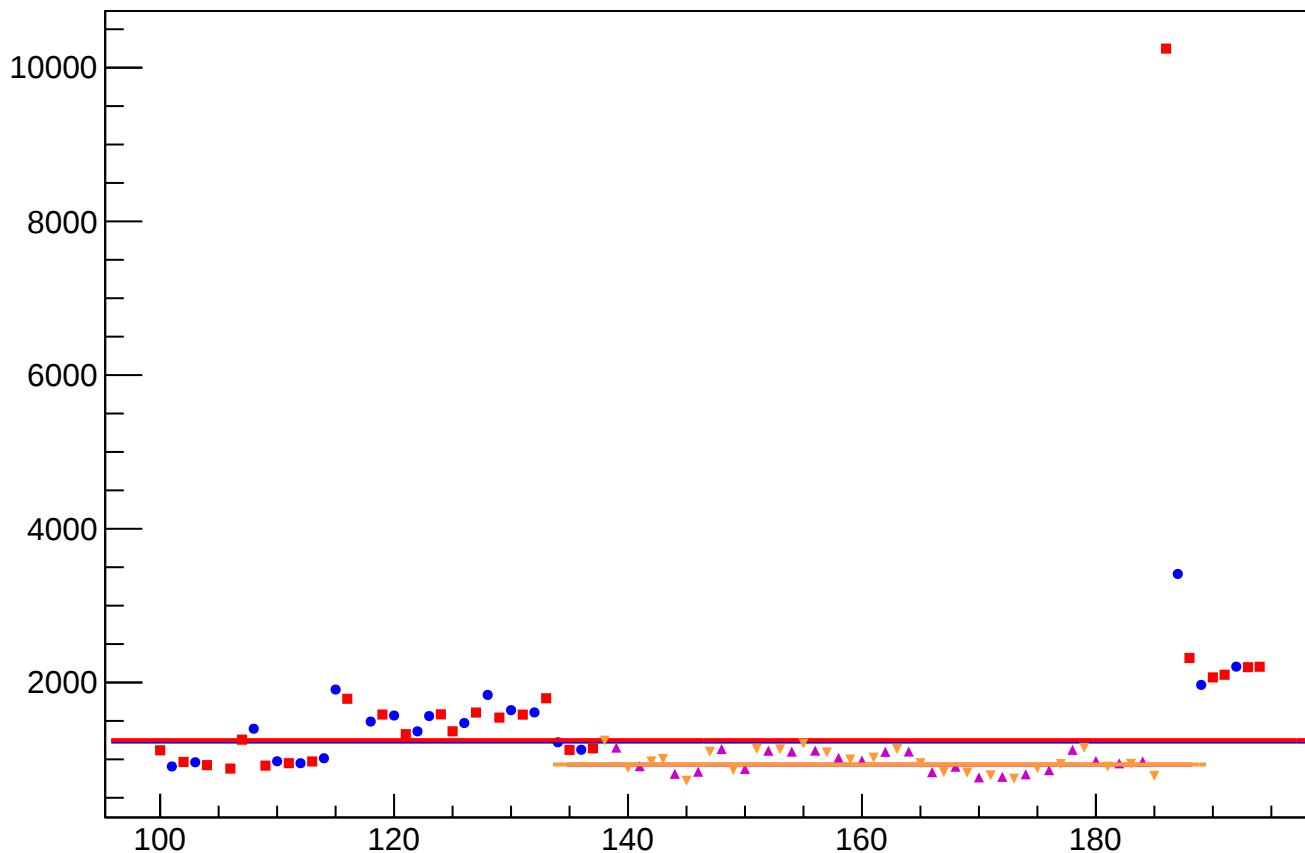
Right: -309.259+/-305.648 χ^2/NDF : 49.7/44

In: 93.453+/-201.875 χ^2/NDF :53.7/42

Out: 793.778+/-194.367 χ^2/NDF :85.4/49

All: 456.881+/-140.017 χ^2/NDF : 145.3/92

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1230.912 $\pm$ 0.320 χ^2 /NDF: 1324851.9/19

Left Out: 932.764 $\pm$ 0.156 χ^2 /NDF: 829798.4/24

Right Out: 1250.295 $\pm$ 0.293 χ^2 /NDF: 2626153.2/24

Left In: 931.493 $\pm$ 0.159 χ^2 /NDF: 624436.4/22

Left: 932.144 $\pm$ 0.111 χ^2 /NDF: 1454267.3/47

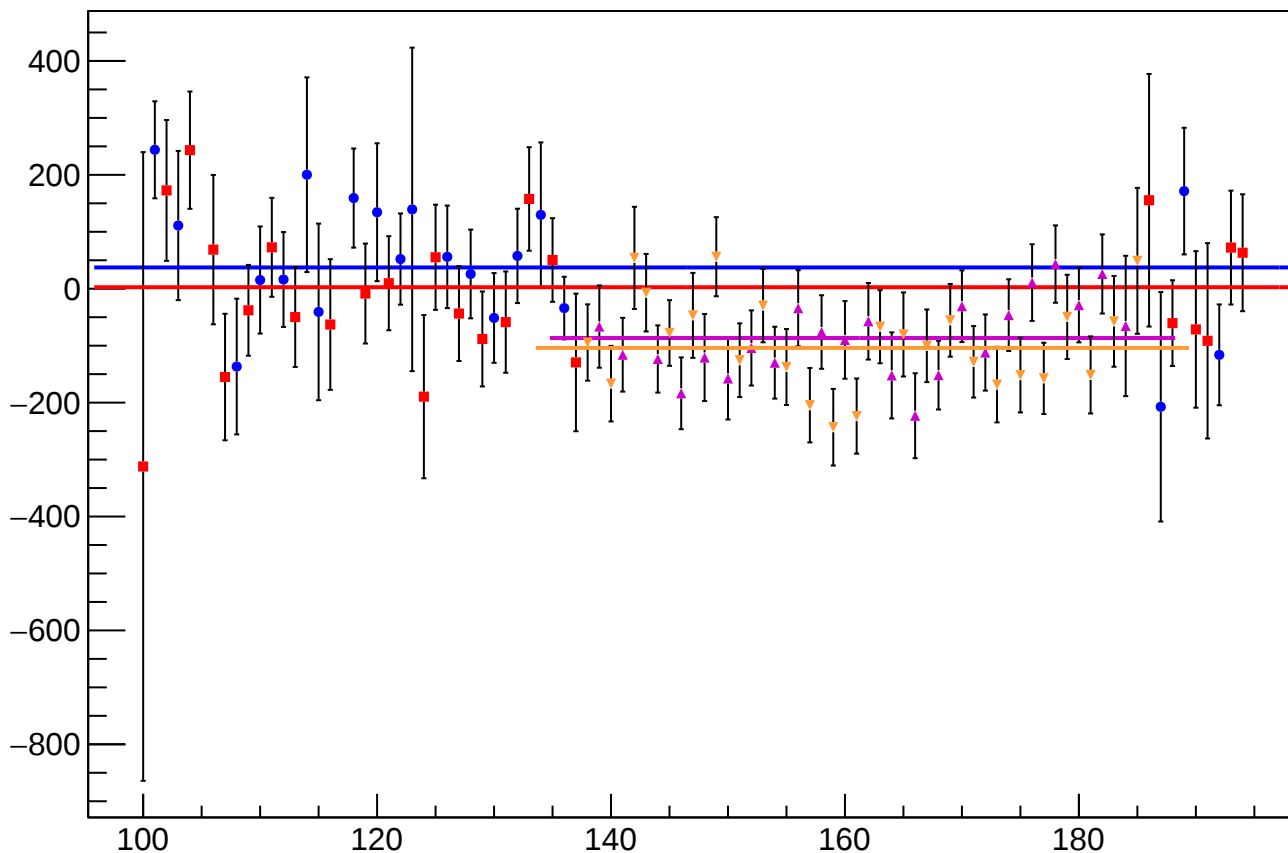
Right: 1241.476 $\pm$ 0.216 χ^2 /NDF: 3952999.4/44

In: 990.923 $\pm$ 0.143 χ^2 /NDF: 2649231.9/42

Out: 1002.746 $\pm$ 0.137 χ^2 /NDF: 4373086.5/49

All: 997.059 $\pm$ 0.099 χ^2 /NDF: 7025878.5/92

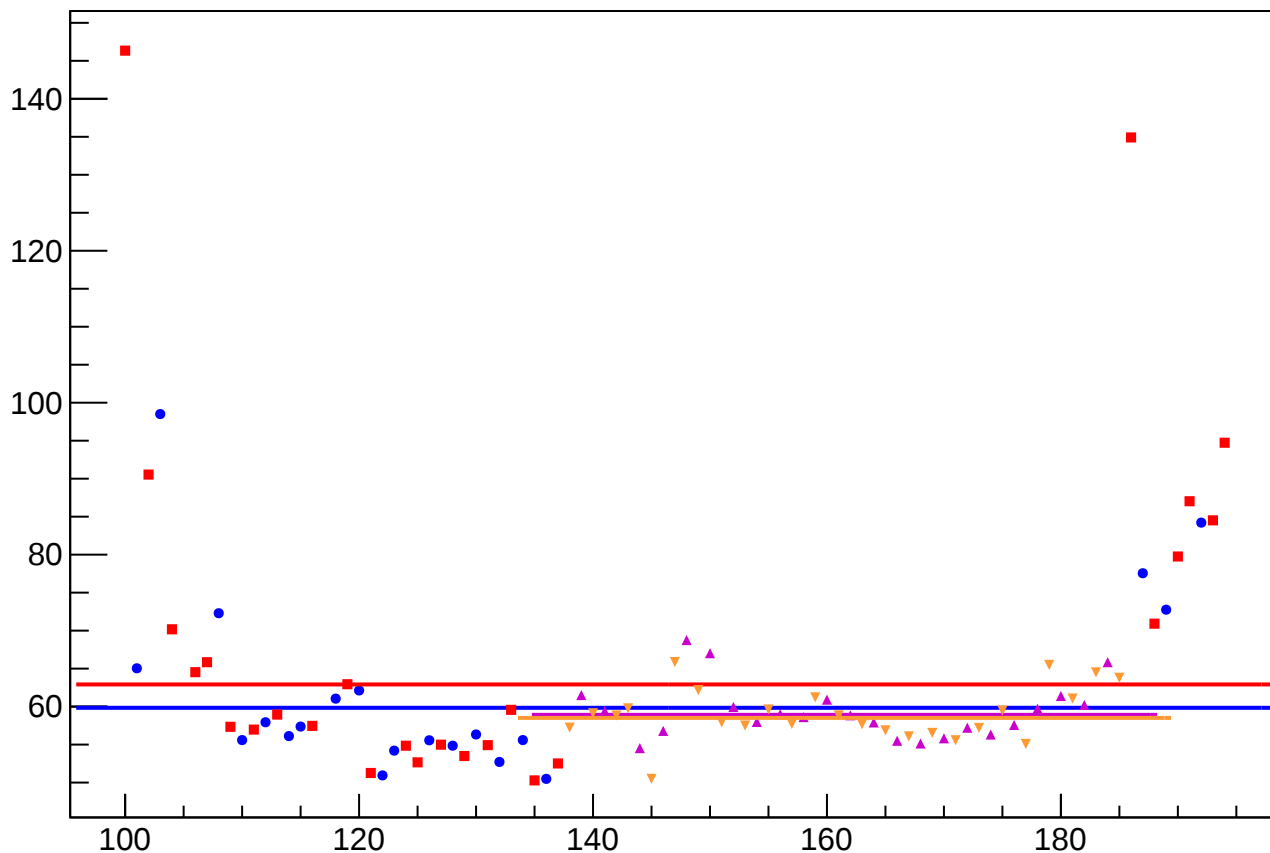
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 37.368+/-21.376 χ^2/NDF : 21.9/19
 Left Out: -103.899+/-13.642 χ^2/NDF :30.0/24
 Right Out: 2.651+/-19.963 χ^2/NDF : 22.8/24
 Left In: -86.542+/-14.120 χ^2/NDF :21.4/22

Left: -95.520+/-9.811 χ^2/NDF : 52.1/47
 Right: 18.825+/-14.590 χ^2/NDF : 46.1/44
 In: -48.901+/-11.782 χ^2/NDF :66.7/42
 Out: -69.982+/-11.263 χ^2/NDF :72.2/49
 All: -59.915+/-8.142 χ^2/NDF : 140.5/92

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 59.843 $\pm$ 0.015 χ^2 /NDF: 522266.3/19

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 62.916 $\pm$ 0.014 χ^2 /NDF: 980623.6/24

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

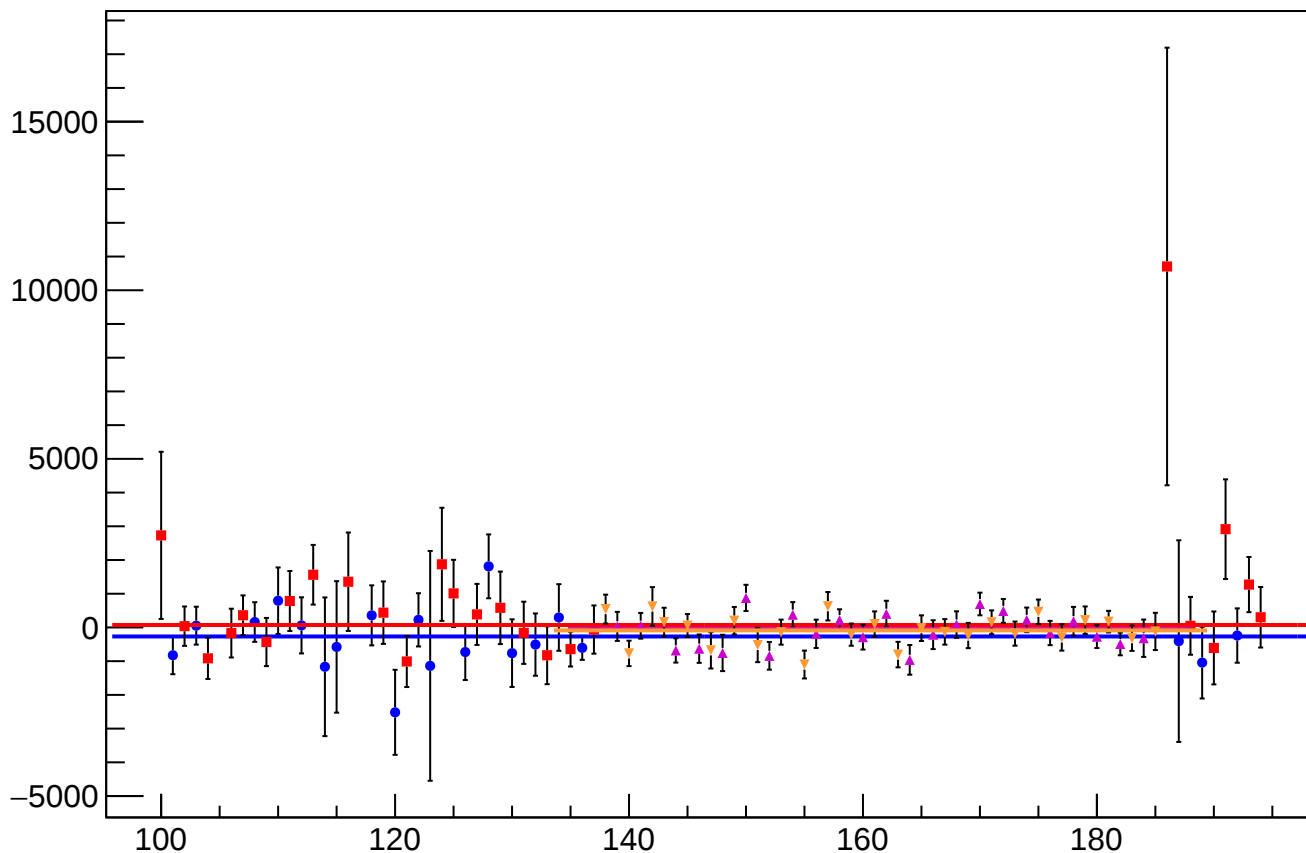
Right: 61.484 $\pm$ 0.010 χ^2 /NDF: 1524969.4/44

In: 59.196 $\pm$ 0.008 χ^2 /NDF:634866.6/42

Out: 59.915 $\pm$ 0.008 χ^2 /NDF:1170163.1/49

All: 59.571 $\pm$ 0.006 χ^2 /NDF: 1808919.2/92

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -267.492 $\pm$ 176.944 χ^2 /NDF: 14.7/19

Left Out: -87.459 $\pm$ 78.556 χ^2 /NDF:27.7/24

Right Out: 72.906 $\pm$ 167.663 χ^2 /NDF: 25.5/24

Left In: -48.742 $\pm$ 80.548 χ^2 /NDF:35.3/22

Left: -68.585 $\pm$ 56.239 χ^2 /NDF: 63.2/47

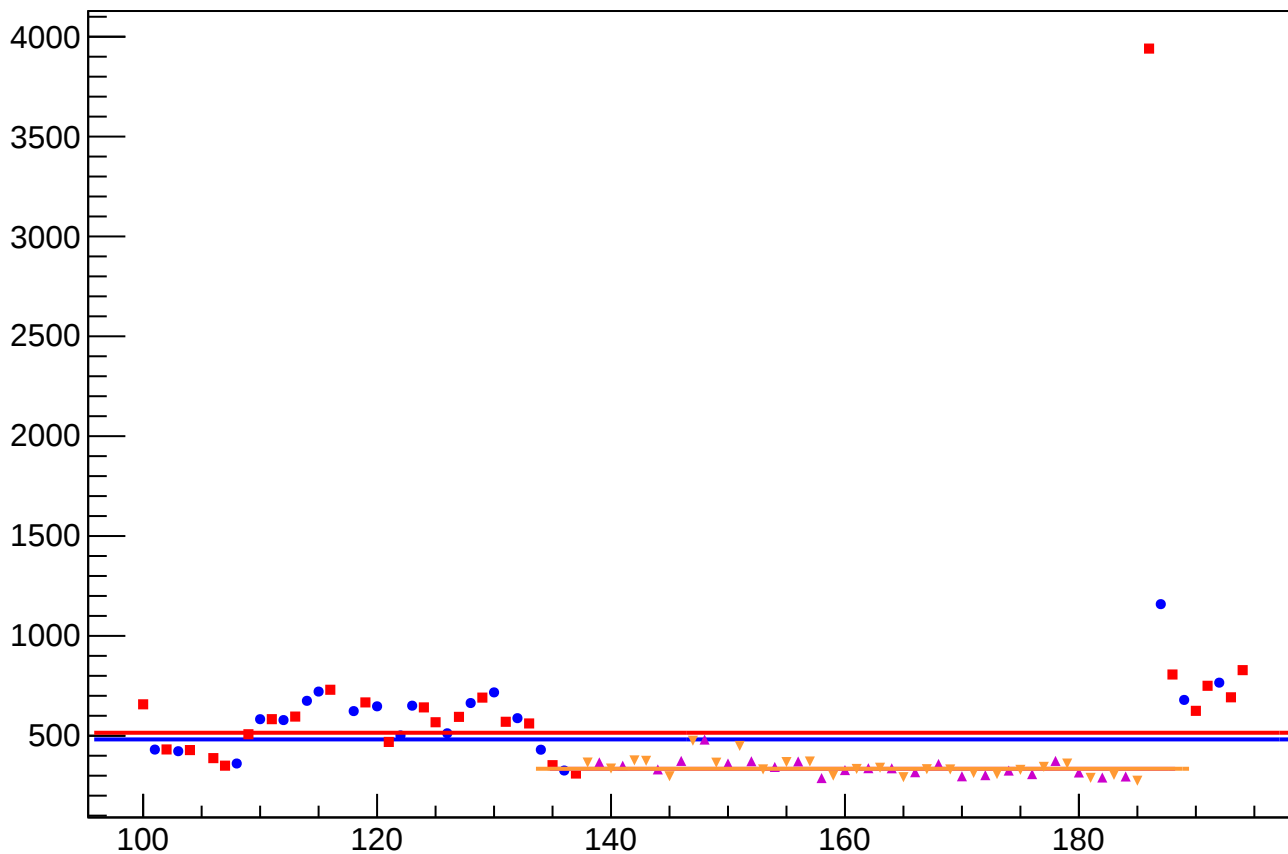
Right: -88.132 $\pm$ 121.704 χ^2 /NDF: 42.2/44

In: -86.291 $\pm$ 73.309 χ^2 /NDF:51.3/42

Out: -58.591 $\pm$ 71.135 χ^2 /NDF:54.0/49

All: -72.024 $\pm$ 51.052 χ^2 /NDF: 105.4/92

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 481.619+/-0.125 χ^2/NDF : 1331744.0/19

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 515.014+/-0.119 χ^2/NDF : 2098335.0/24

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

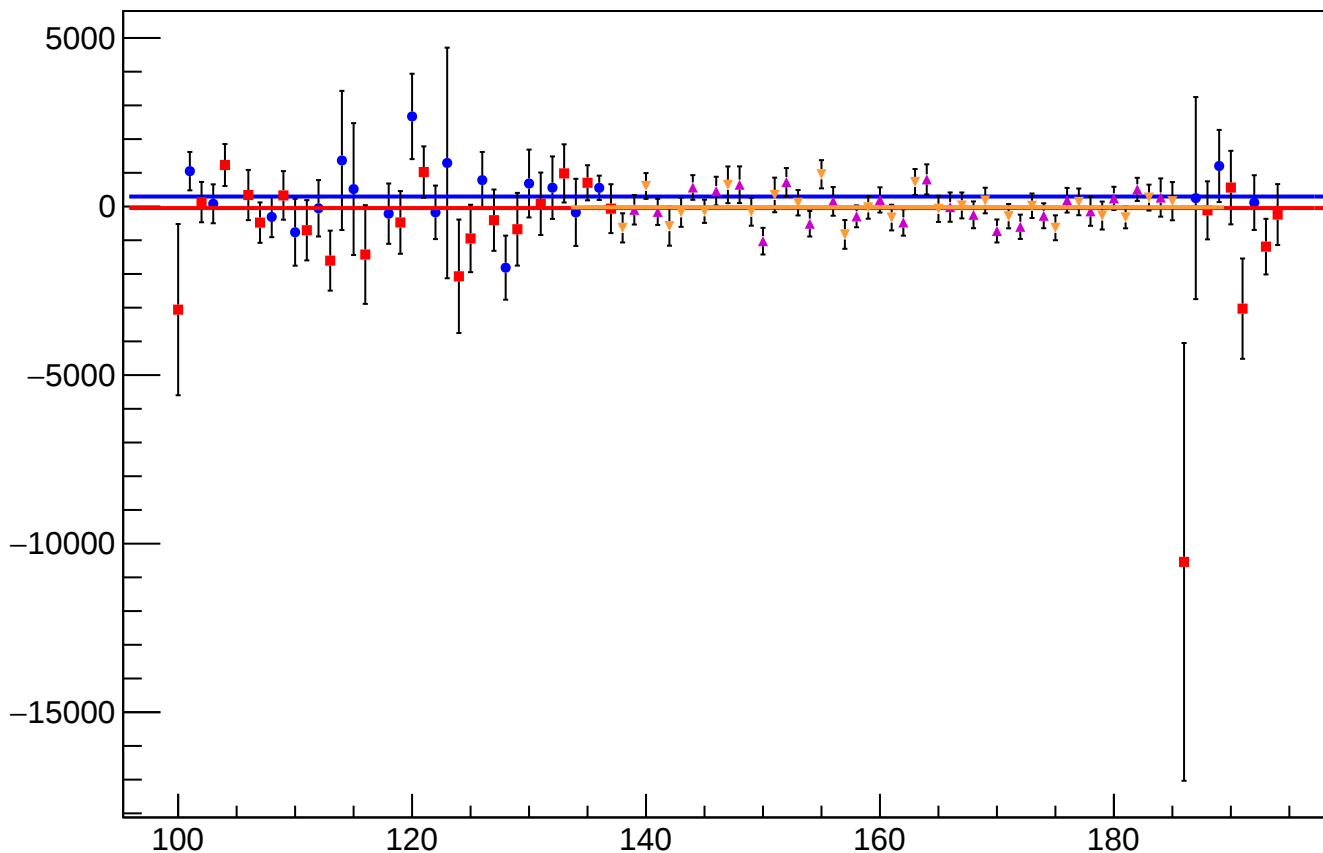
Right: 499.215+/-0.086 χ^2/NDF : 3467615.8/44

In: 359.461+/-0.052 χ^2/NDF : 2879728.1/42

Out: 367.198+/-0.050 χ^2/NDF : 4485485.5/49

All: 363.446+/-0.036 χ^2/NDF : 7376689.5/92

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 296.388 ± 178.952 χ^2/NDF : 15.8/19

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -45.051 ± 169.583 χ^2/NDF : 28.6/24

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

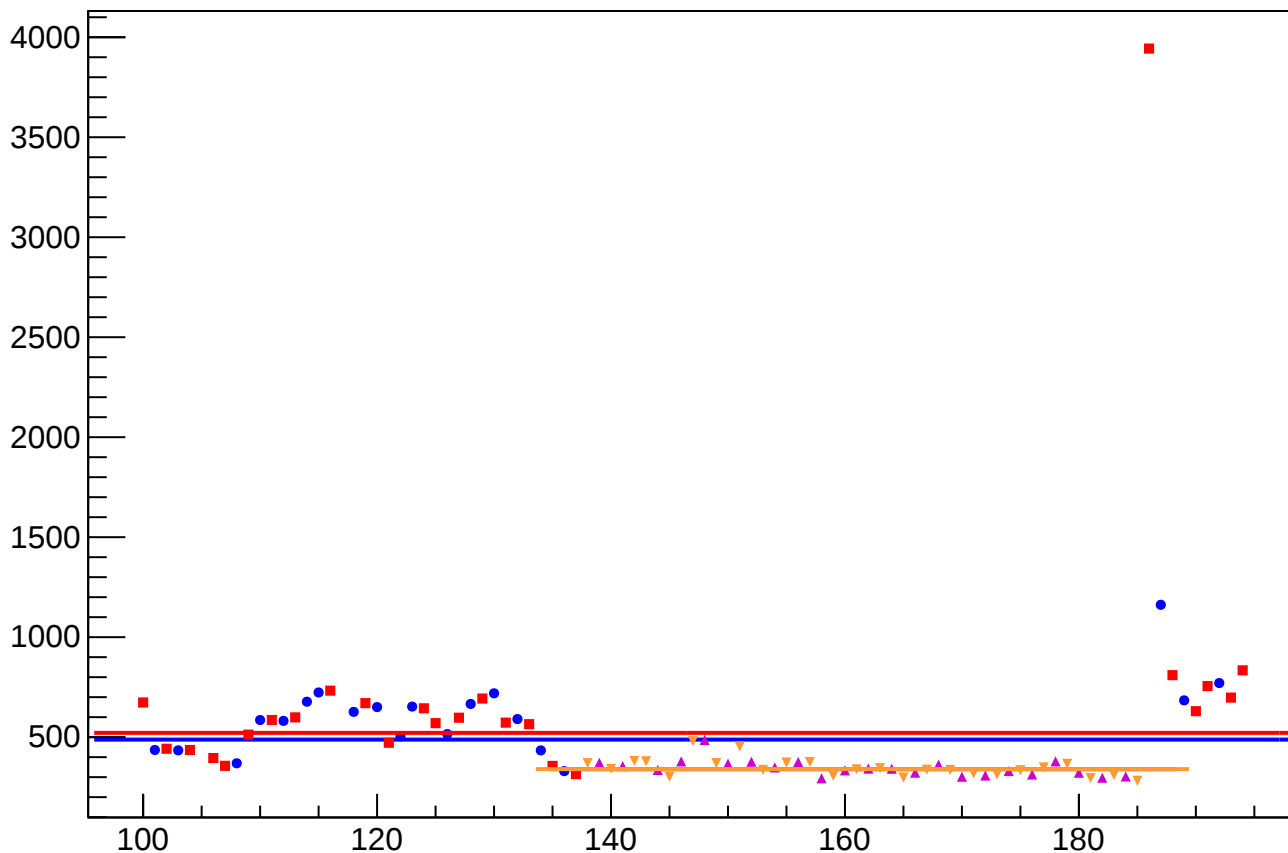
Right: 116.497 ± 123.092 χ^2/NDF : 46.3/44

In: 24.967 ± 74.426 χ^2/NDF : 52.6/42

Out: -25.275 ± 72.214 χ^2/NDF : 55.8/49

All: -0.912 ± 51.827 χ^2/NDF : 108.7/92

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 487.790 $\pm$ 0.127 χ^2 /NDF: 1291136.6/19

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 521.468 $\pm$ 0.120 χ^2 /NDF: 2049742.9/24

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

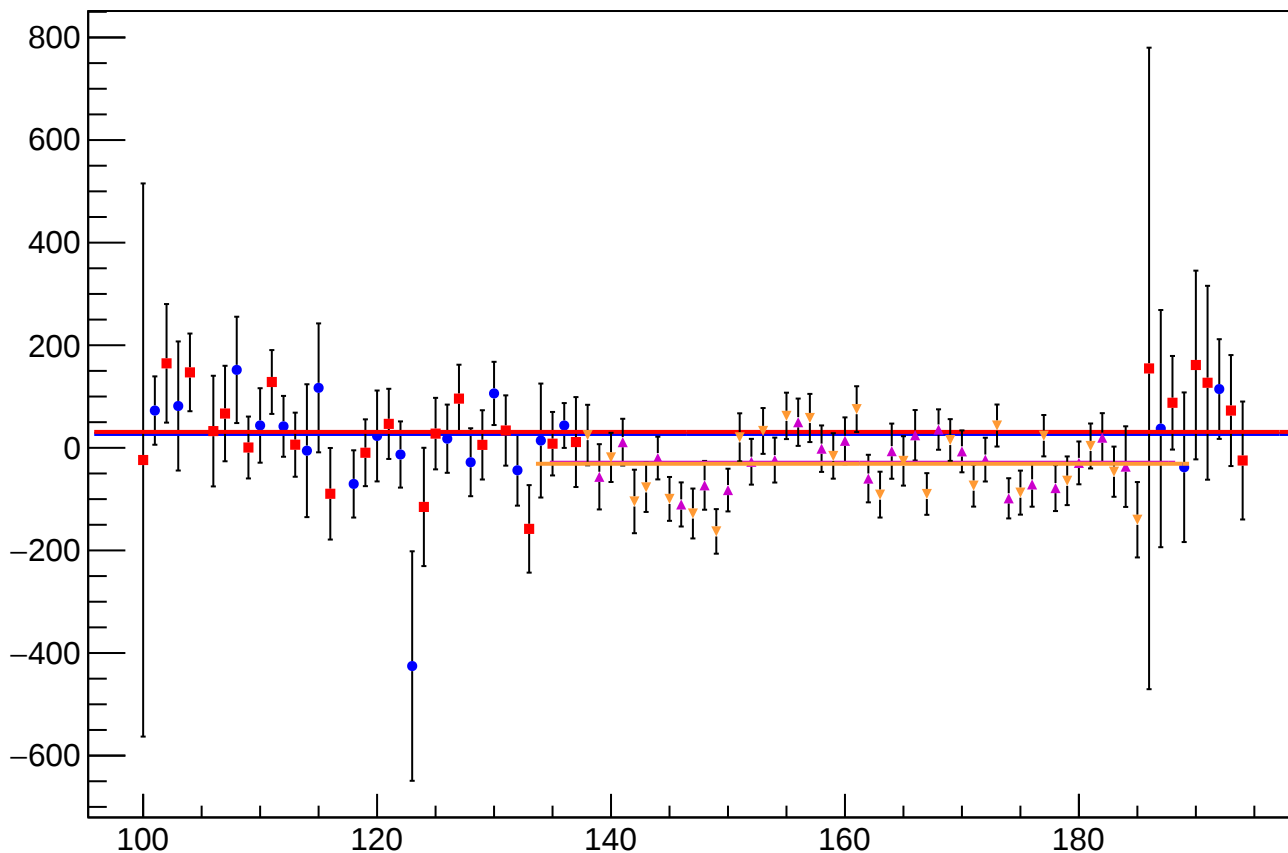
Right: 505.533 $\pm$ 0.087 χ^2 /NDF: 3378199.2/44

In: 365.250 $\pm$ 0.053 χ^2 /NDF: 2804892.6/42

Out: 373.101 $\pm$ 0.051 χ^2 /NDF: 4388571.2/49

All: 369.294 $\pm$ 0.037 χ^2 /NDF: 7204926.1/92

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 27.023+/-17.401 χ^2/NDF : 14.1/19

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 31.051+/-16.596 χ^2/NDF : 18.4/24

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

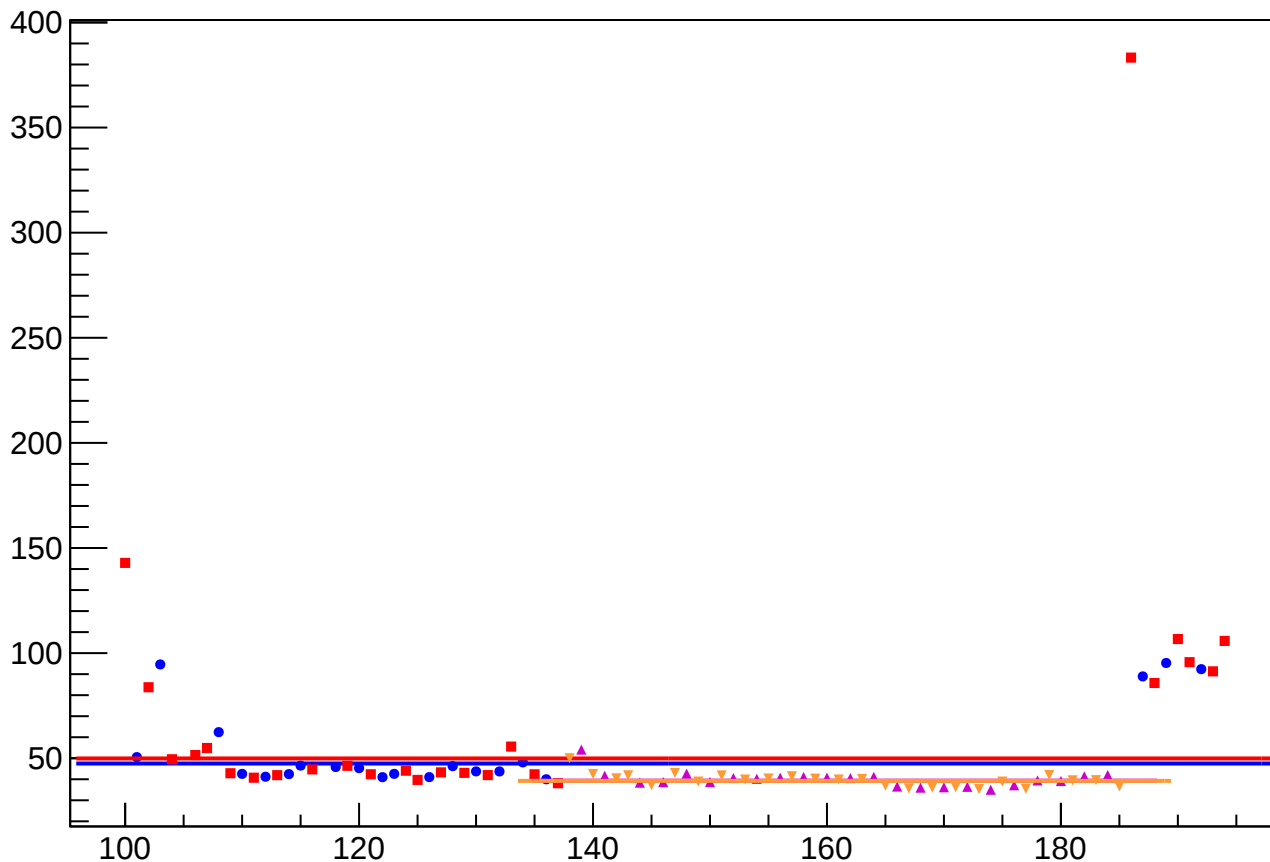
Right: 29.133+/-12.010 χ^2/NDF : 32.4/44

In: -16.284+/-8.304 χ^2/NDF : 44.5/42

Out: -16.536+/-8.026 χ^2/NDF : 81.7/49

All: -16.414+/-5.771 χ^2/NDF : 126.2/92

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 47.493 $\pm$ 0.012 χ^2 /NDF: 1182655.6/19

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 49.902 $\pm$ 0.012 χ^2 /NDF: 2519369.1/24

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

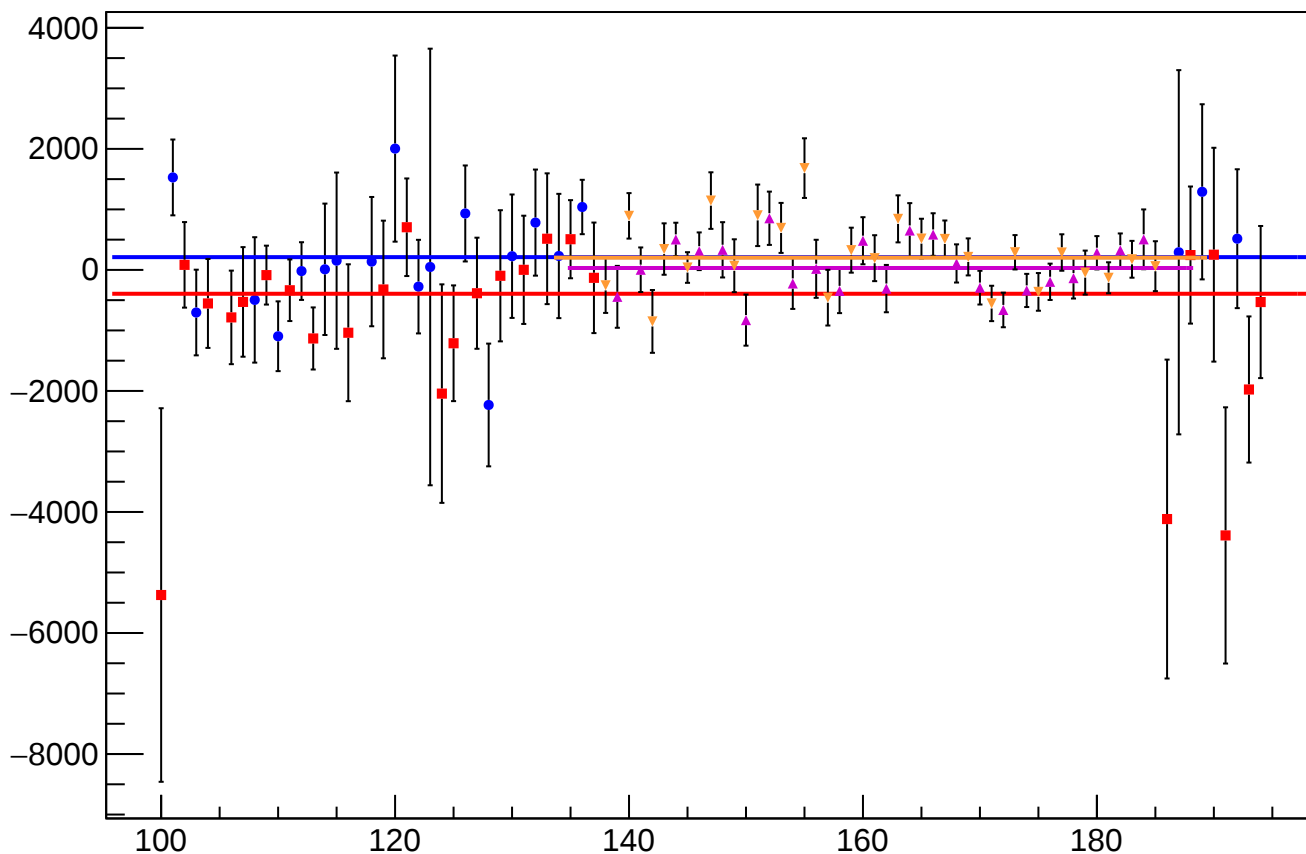
Right: 48.754 $\pm$ 0.008 χ^2 /NDF: 3722090.8/44

In: 41.195 $\pm$ 0.006 χ^2 /NDF: 1737523.6/42

Out: 41.730 $\pm$ 0.006 χ^2 /NDF: 3354245.7/49

All: 41.472 $\pm$ 0.004 χ^2 /NDF: 5096049.3/92

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 211.091 $\pm$ 184.650 χ^2 /NDF: 24.8/19

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -394.191 $\pm$ 172.117 χ^2 /NDF: 20.4/24

Left In: 31.548 $\pm$ 72.100 χ^2 /NDF:33.4/22

Left: 118.965 $\pm$ 50.380 χ^2 /NDF: 81.1/47

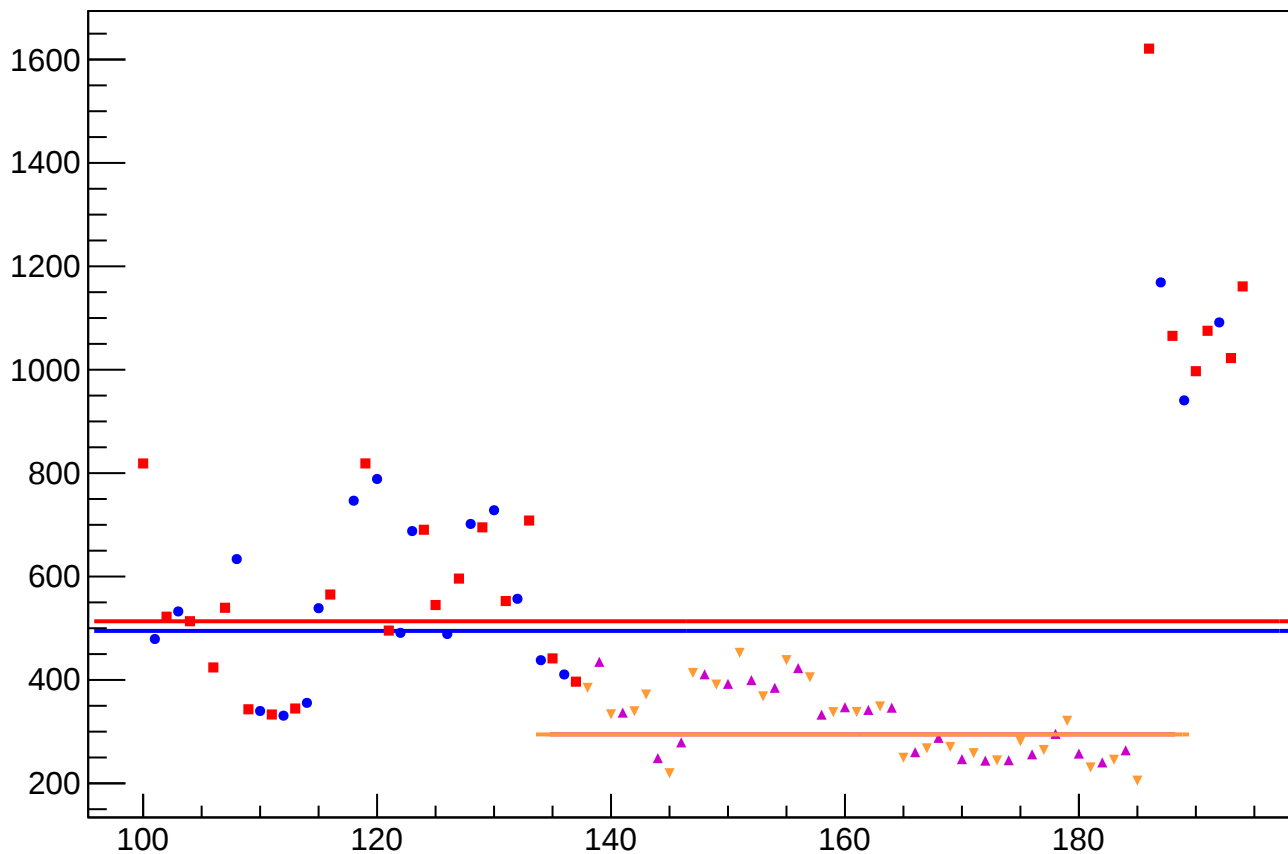
Right: -112.786 $\pm$ 125.903 χ^2 /NDF: 50.9/44

In: 55.301 $\pm$ 67.162 χ^2 /NDF:59.0/42

Out: 116.815 $\pm$ 65.181 χ^2 /NDF:75.5/49

All: 86.979 $\pm$ 46.774 χ^2 /NDF: 134.9/92

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 494.835+/-0.131 χ^2/NDF : 1753943.6/19

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 513.459+/-0.122 χ^2/NDF : 3135531.7/24

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

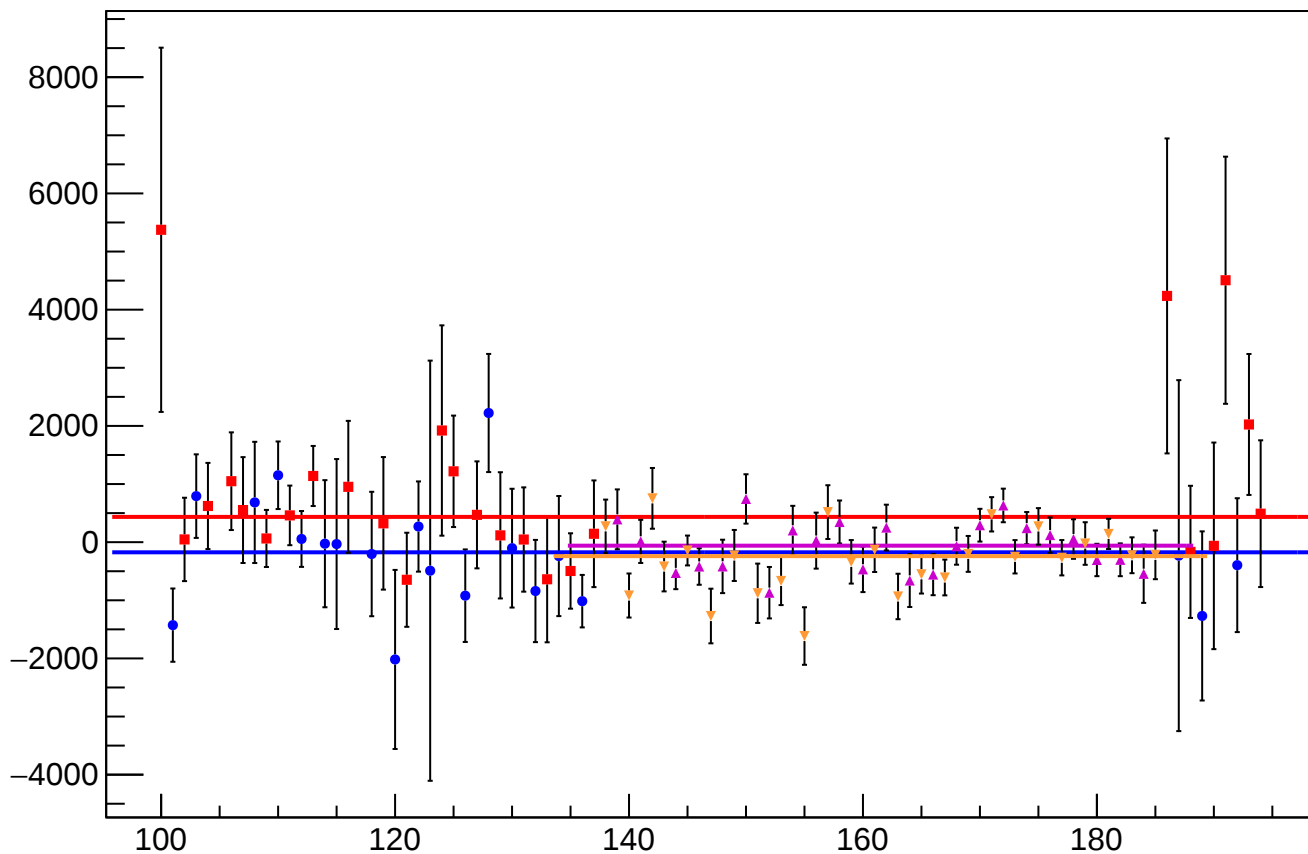
Right: 504.801+/-0.089 χ^2/NDF : 4900361.8/44

In: 321.196+/-0.047 χ^2/NDF : 5089506.0/42

Out: 325.980+/-0.046 χ^2/NDF : 7586236.1/49

All: 323.660+/-0.033 χ^2/NDF : 12680967.4/92

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -174.474 ± 185.778 $\chi^2/\text{NDF}: 24.7/19$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 434.769 ± 173.850 $\chi^2/\text{NDF}: 20.3/24$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

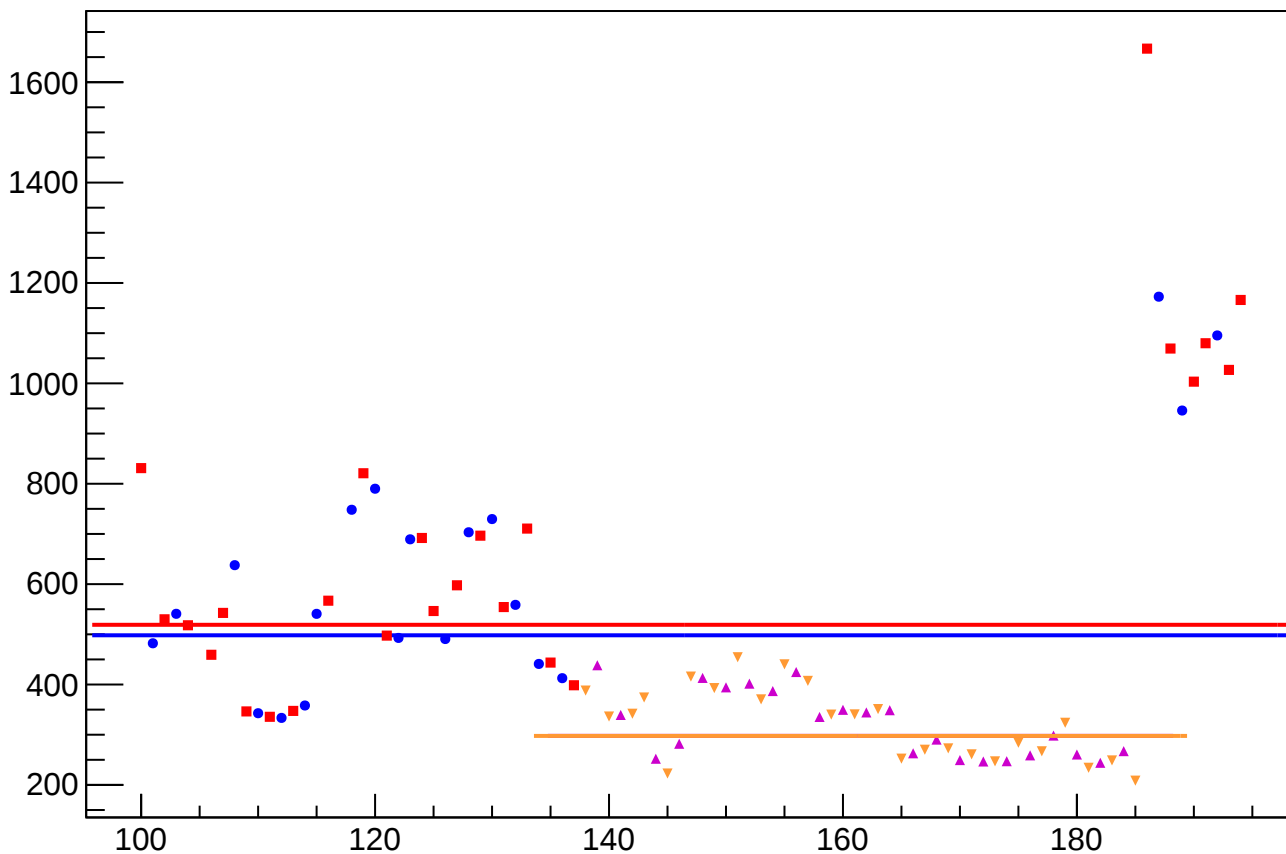
Right: 150.333 ± 126.938 $\chi^2/\text{NDF}: 50.8/44$

In: -75.520 ± 67.772 $\chi^2/\text{NDF}: 56.0/42$

Out: -143.615 ± 65.809 $\chi^2/\text{NDF}: 76.2/49$

All: -110.568 ± 47.213 $\chi^2/\text{NDF}: 132.6/92$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 498.084 $\pm$ 0.131 χ^2/NDF : 1741902.9/19

Left Out: 297.613 $\pm$ 0.050 χ^2/NDF :1637757.8/24

Right Out: 518.985 $\pm$ 0.123 χ^2/NDF : 3107211.0/24

Left In: 297.699 $\pm$ 0.051 χ^2/NDF :1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2/NDF : 2904065.4/47

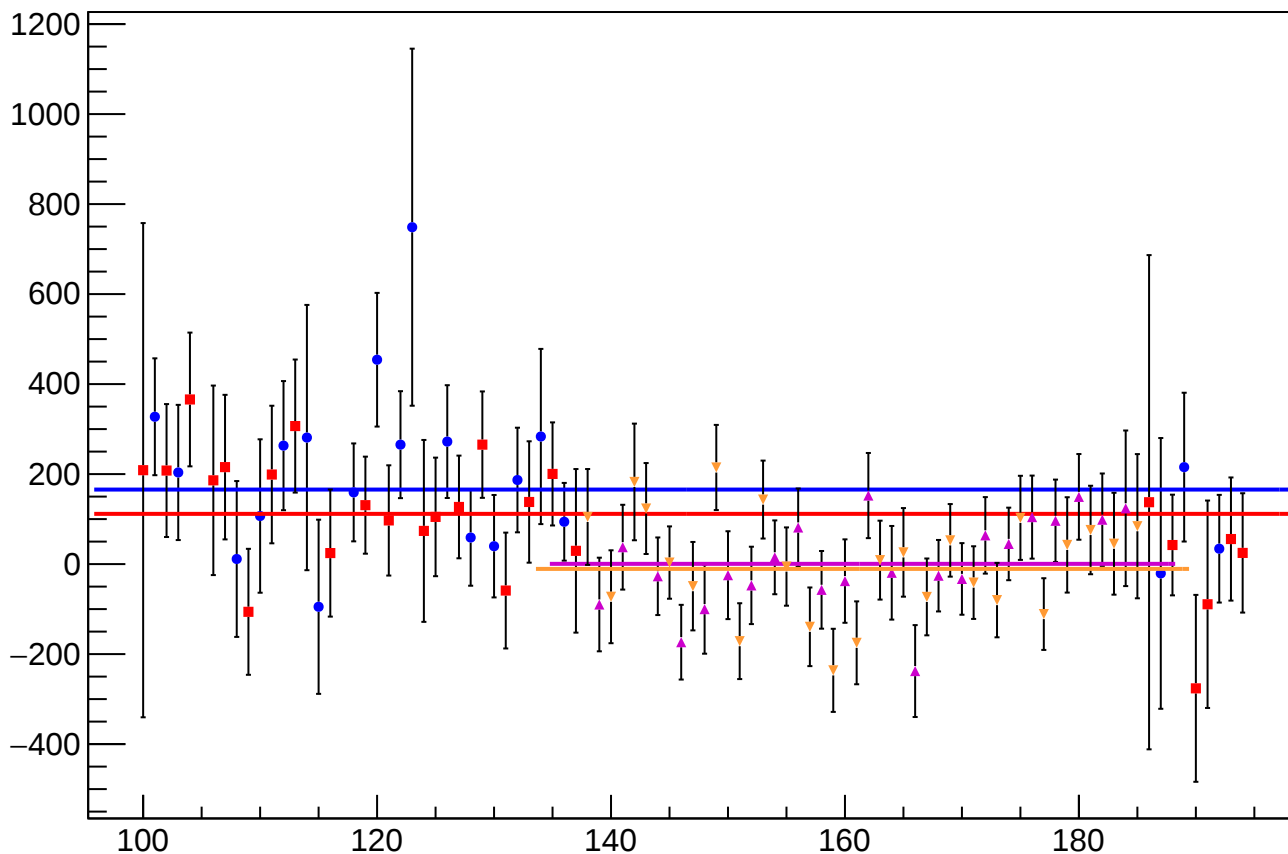
Right: 509.227 $\pm$ 0.090 χ^2/NDF : 4862609.5/44

In: 324.366 $\pm$ 0.048 χ^2/NDF :5025425.2/42

Out: 329.334 $\pm$ 0.047 χ^2/NDF :7523140.3/49

All: 326.923 $\pm$ 0.033 χ^2/NDF : 12554096.4/92

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 165.622 $\pm$ 30.933 χ^2 /NDF: 17.3/19

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 111.635 $\pm$ 29.038 χ^2 /NDF: 18.4/24

Left In: 0.575 $\pm$ 19.091 χ^2 /NDF:23.8/22

Left: -5.190 $\pm$ 13.326 χ^2 /NDF: 60.3/47

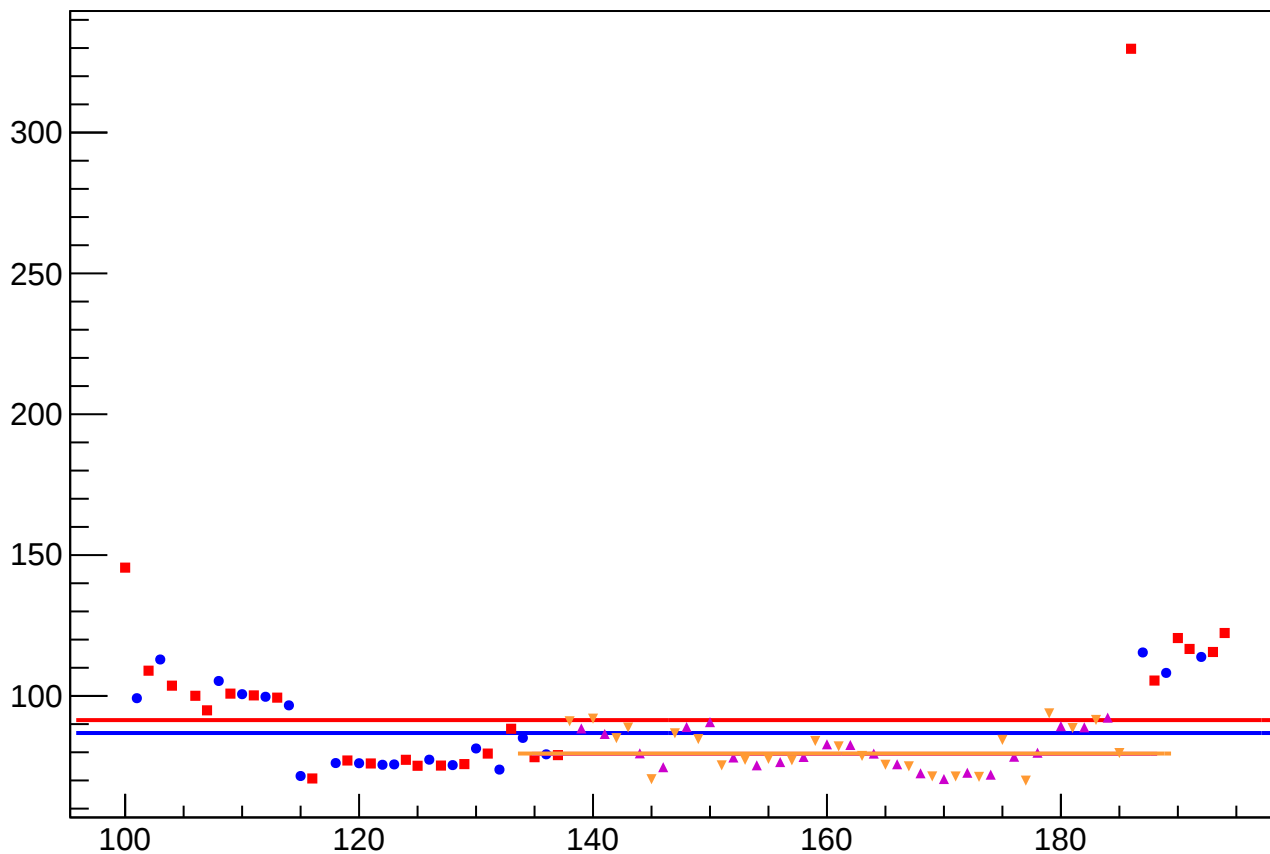
Right: 136.925 $\pm$ 21.171 χ^2 /NDF: 37.3/44

In: 46.103 $\pm$ 16.246 χ^2 /NDF:61.7/42

Out: 24.939 $\pm$ 15.668 χ^2 /NDF:67.3/49

All: 35.138 $\pm$ 11.278 χ^2 /NDF: 129.9/92

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 86.837 $\pm$ 0.022 χ^2 /NDF: 426728.7/19

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 91.422 $\pm$ 0.021 χ^2 /NDF: 1008443.6/24

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF: 212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

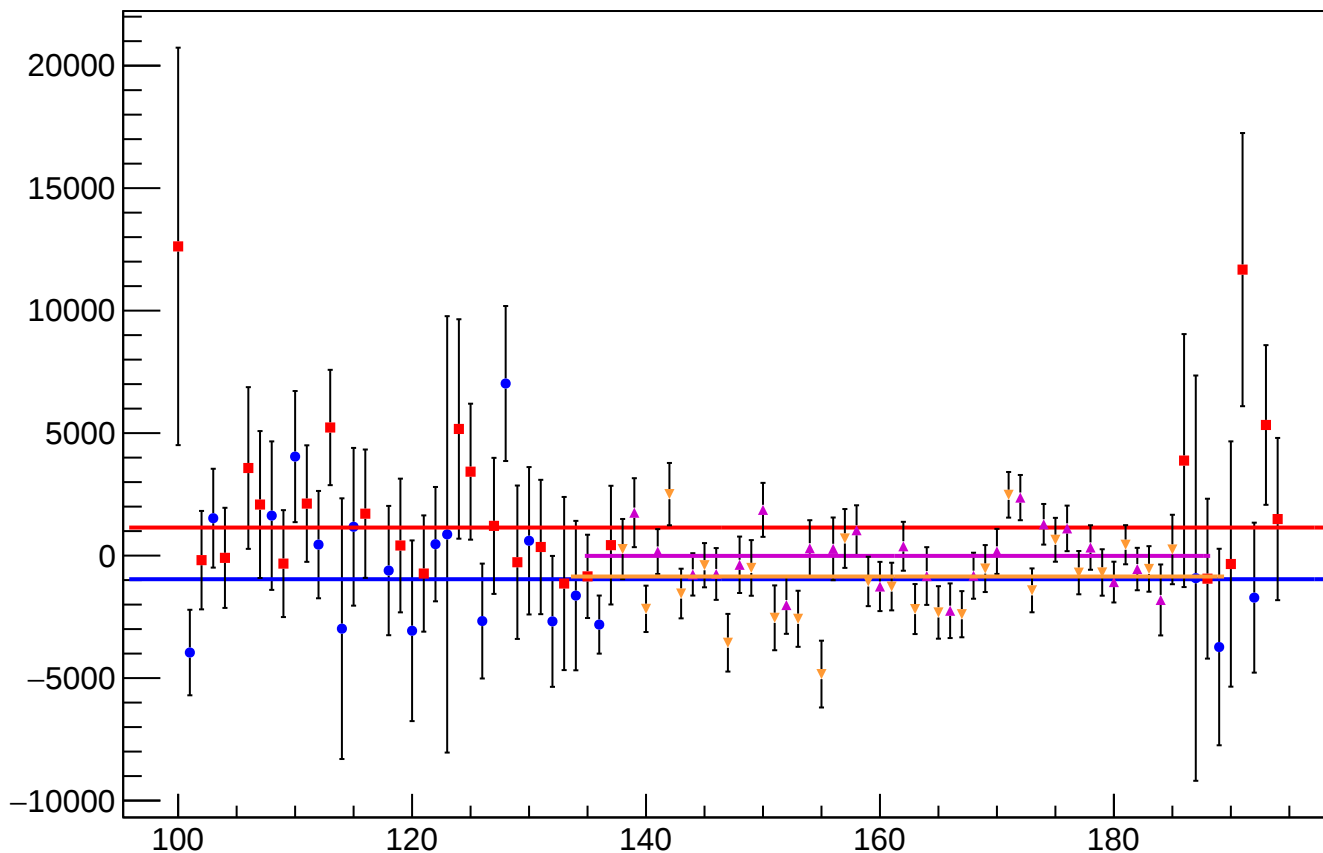
Right: 89.274 $\pm$ 0.015 χ^2 /NDF: 1458523.0/44

In: 81.478 $\pm$ 0.011 χ^2 /NDF: 722079.3/42

Out: 83.007 $\pm$ 0.011 χ^2 /NDF: 1554442.2/49

All: 82.270 $\pm$ 0.008 χ^2 /NDF: 2285700.2/92

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -963.760 $\pm$ 567.001 χ^2 /NDF: 21.1/19

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1145.256 $\pm$ 553.868 χ^2 /NDF: 17.5/24

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

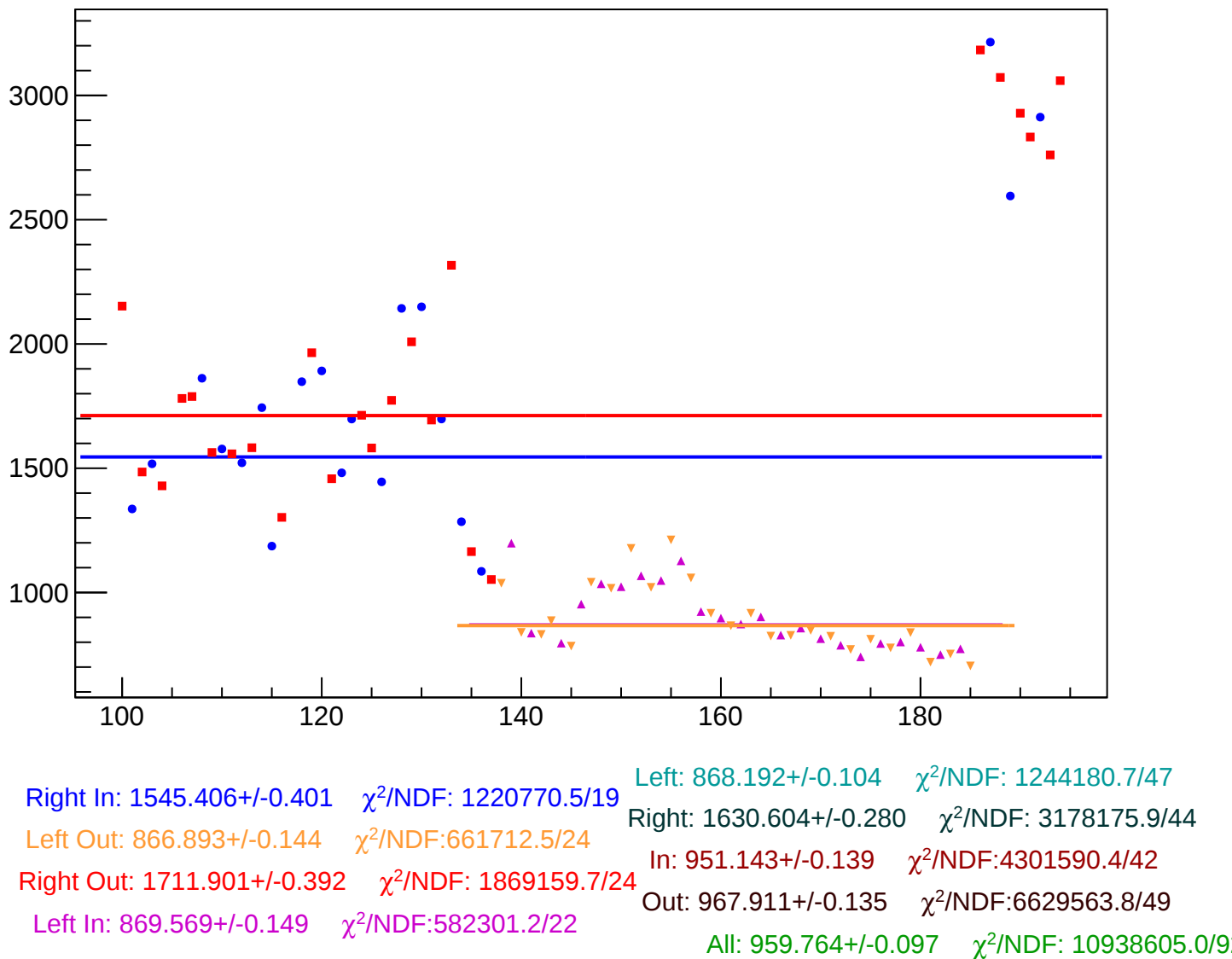
Right: 115.456 $\pm$ 396.205 χ^2 /NDF: 45.6/44

In: -126.603 $\pm$ 196.988 χ^2 /NDF:54.8/42

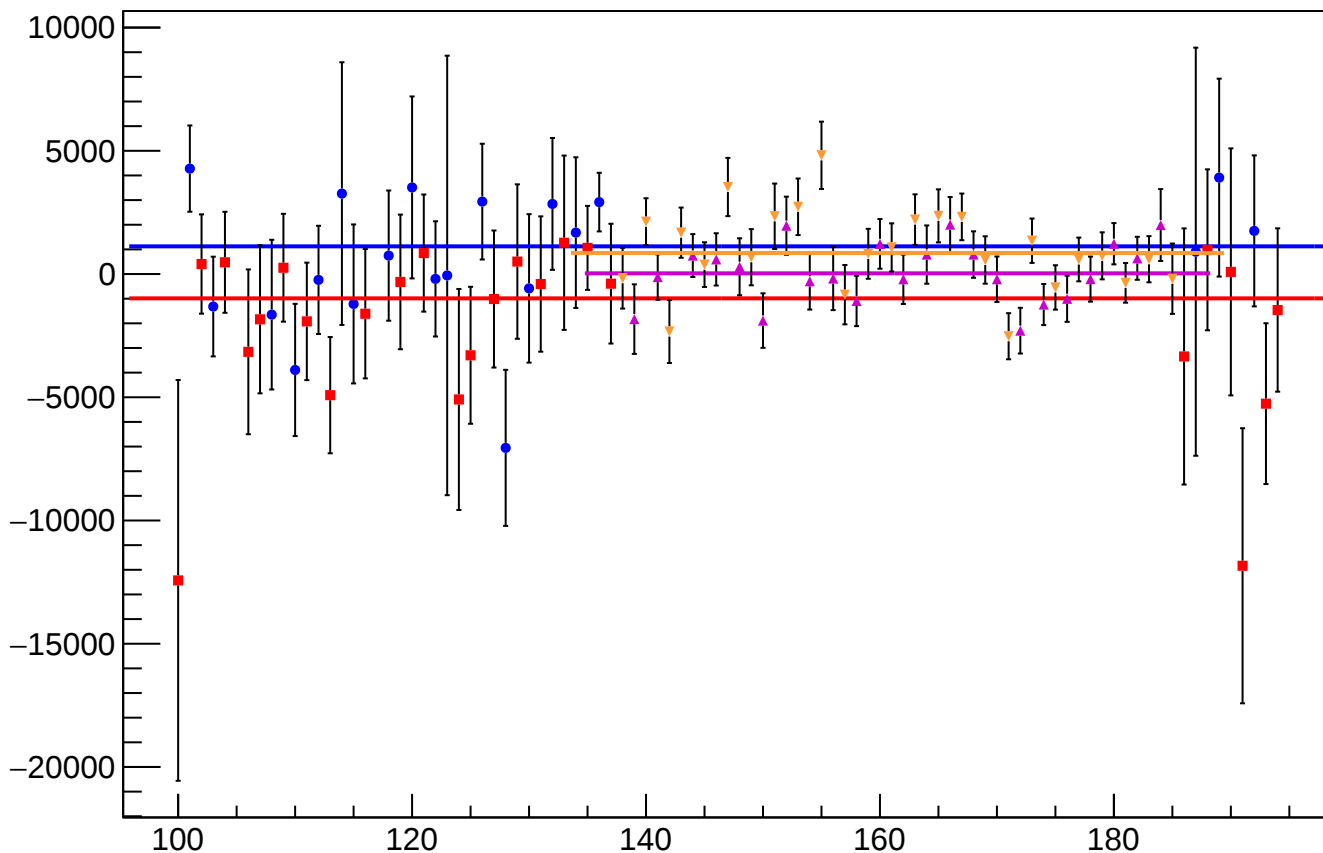
Out: -615.110 $\pm$ 191.503 χ^2 /NDF:84.9/49

All: -377.752 $\pm$ 137.311 χ^2 /NDF: 142.9/92

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1123.665+/-568.135 χ^2/NDF : 21.7/19

Left Out: 855.664+/-205.047 χ^2/NDF : 54.1/24

Right Out: -986.435+/-555.050 χ^2/NDF : 17.3/24

Left In: 28.553+/-211.034 χ^2/NDF : 29.7/22

Left: 454.007+/-147.061 χ^2/NDF : 91.7/47

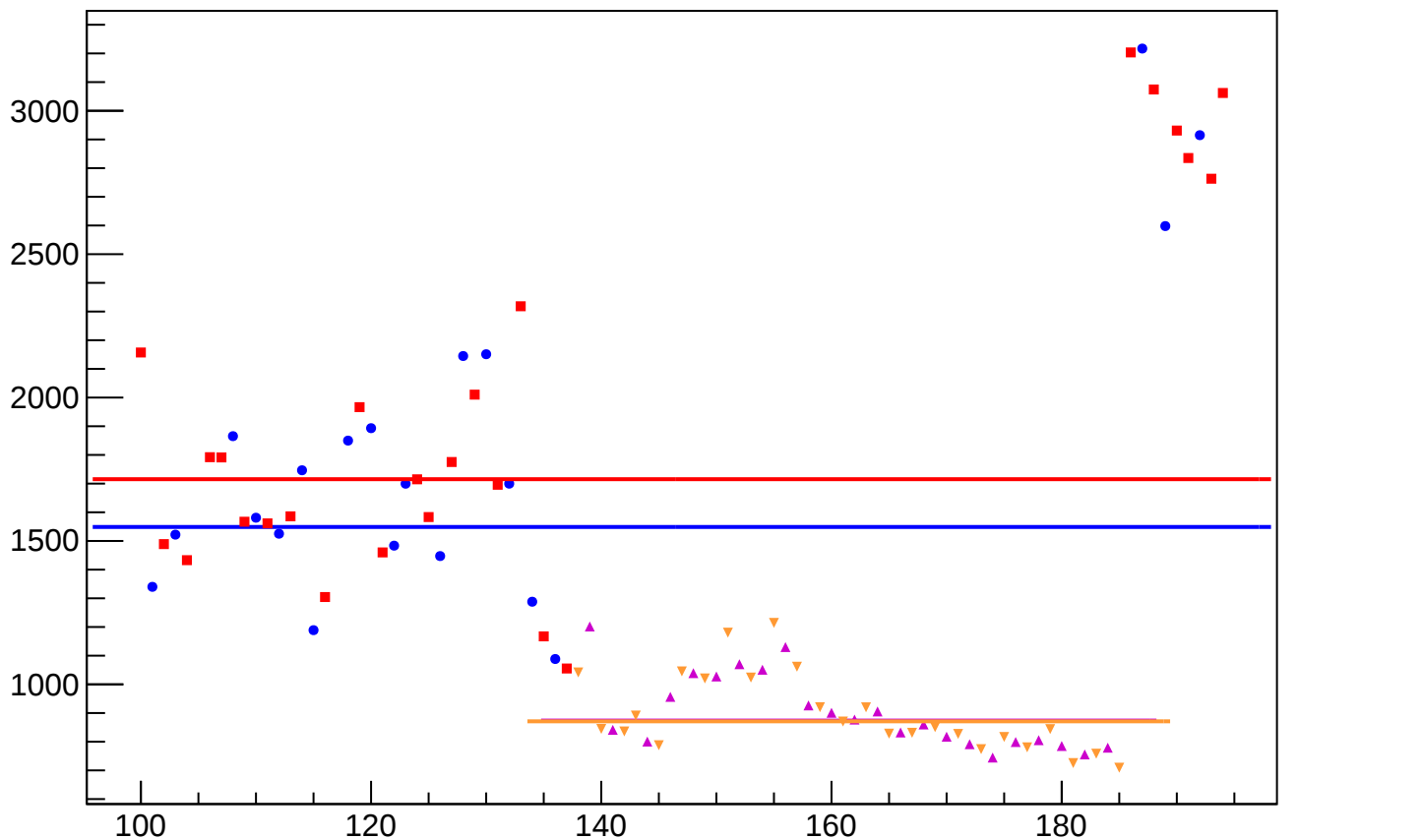
Right: 44.034+/-397.025 χ^2/NDF : 46.1/44

In: 161.331+/-197.827 χ^2/NDF : 54.7/42

Out: 634.458+/-192.342 χ^2/NDF : 81.0/49

All: 404.545+/-137.905 χ^2/NDF : 138.7/92

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1548.815 $\pm$ 0.402 χ^2 /NDF: 1215311.6/19

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1715.390 $\pm$ 0.392 χ^2 /NDF: 1865161.3/24

Left In: 873.675 $\pm$ 0.149 χ^2 /NDF: 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2 /NDF: 1225725.6/47

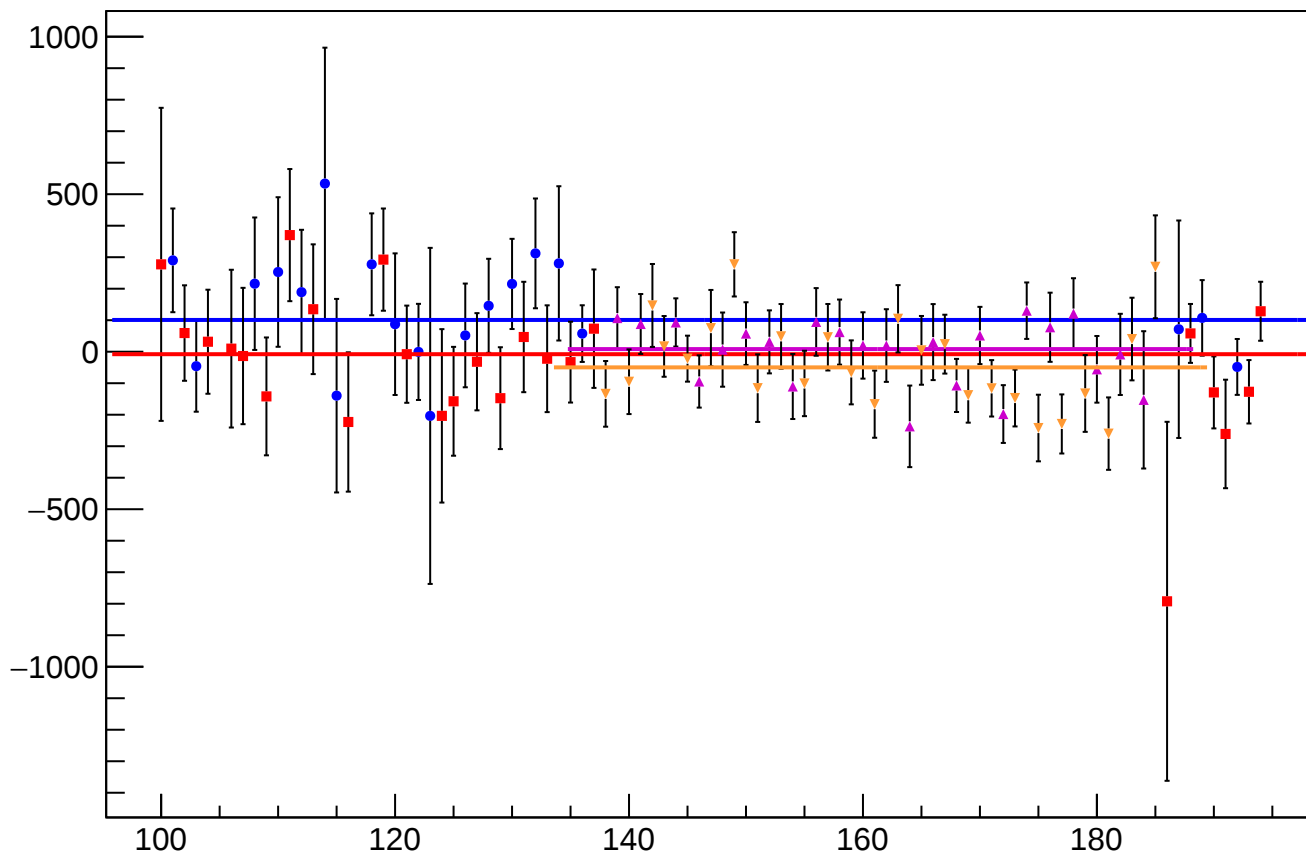
Right: 1634.043 $\pm$ 0.281 χ^2 /NDF: 3168439.2/44

In: 955.533 $\pm$ 0.140 χ^2 /NDF: 4271018.9/42

Out: 972.493 $\pm$ 0.136 χ^2 /NDF: 6588669.6/49

All: 964.252 $\pm$ 0.098 χ^2 /NDF: 10867245.2/92

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 100.817 ± 35.806 $\chi^2/\text{NDF}: 12.7/19$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: -7.882 ± 31.299 $\chi^2/\text{NDF}: 20.8/24$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

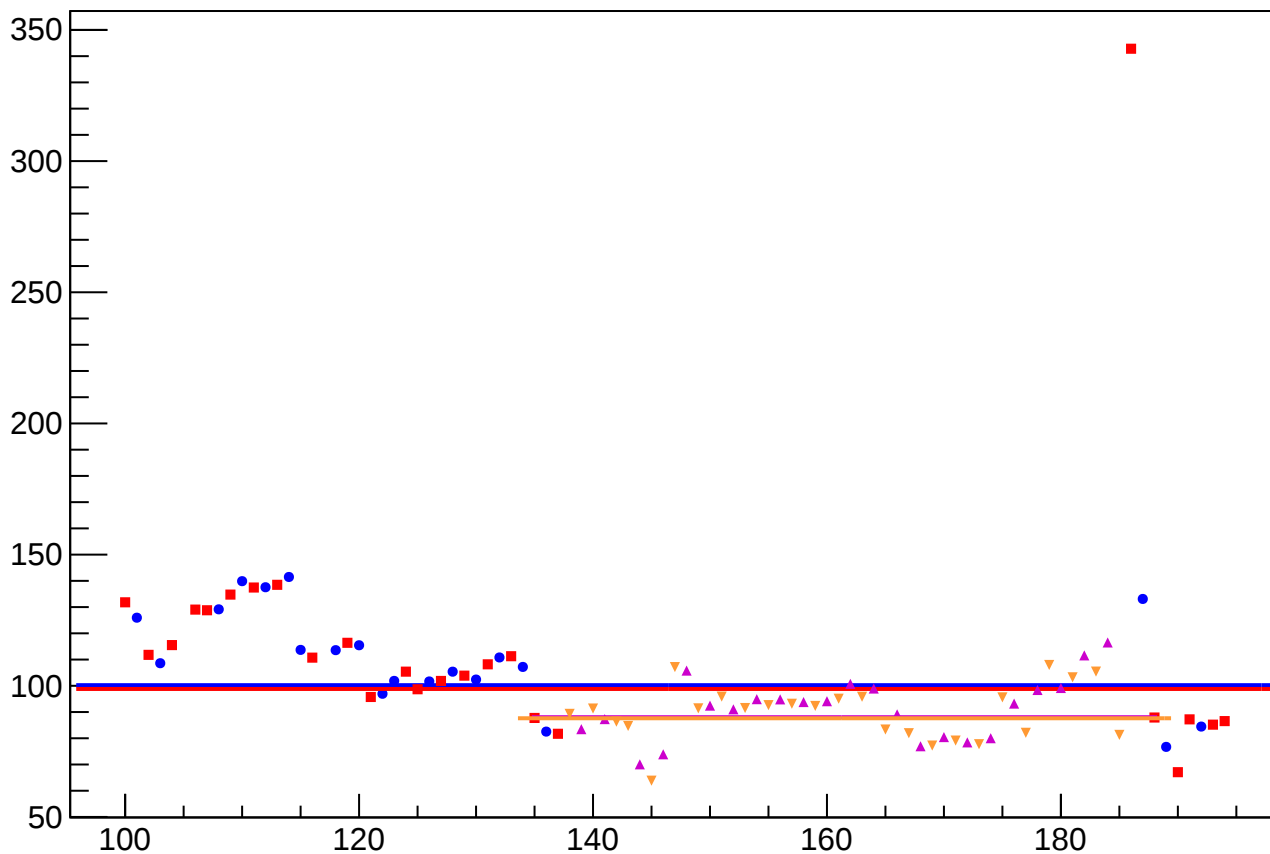
Right: 39.199 ± 23.565 $\chi^2/\text{NDF}: 38.7/44$

In: 32.465 ± 18.288 $\chi^2/\text{NDF}: 39.7/42$

Out: -37.089 ± 17.196 $\chi^2/\text{NDF}: 61.4/49$

All: -4.450 ± 12.527 $\chi^2/\text{NDF}: 108.8/92$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 100.240 $\pm$ 0.025 χ^2 /NDF: 513908.0/19

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 98.795 $\pm$ 0.022 χ^2 /NDF: 1037819.3/24

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

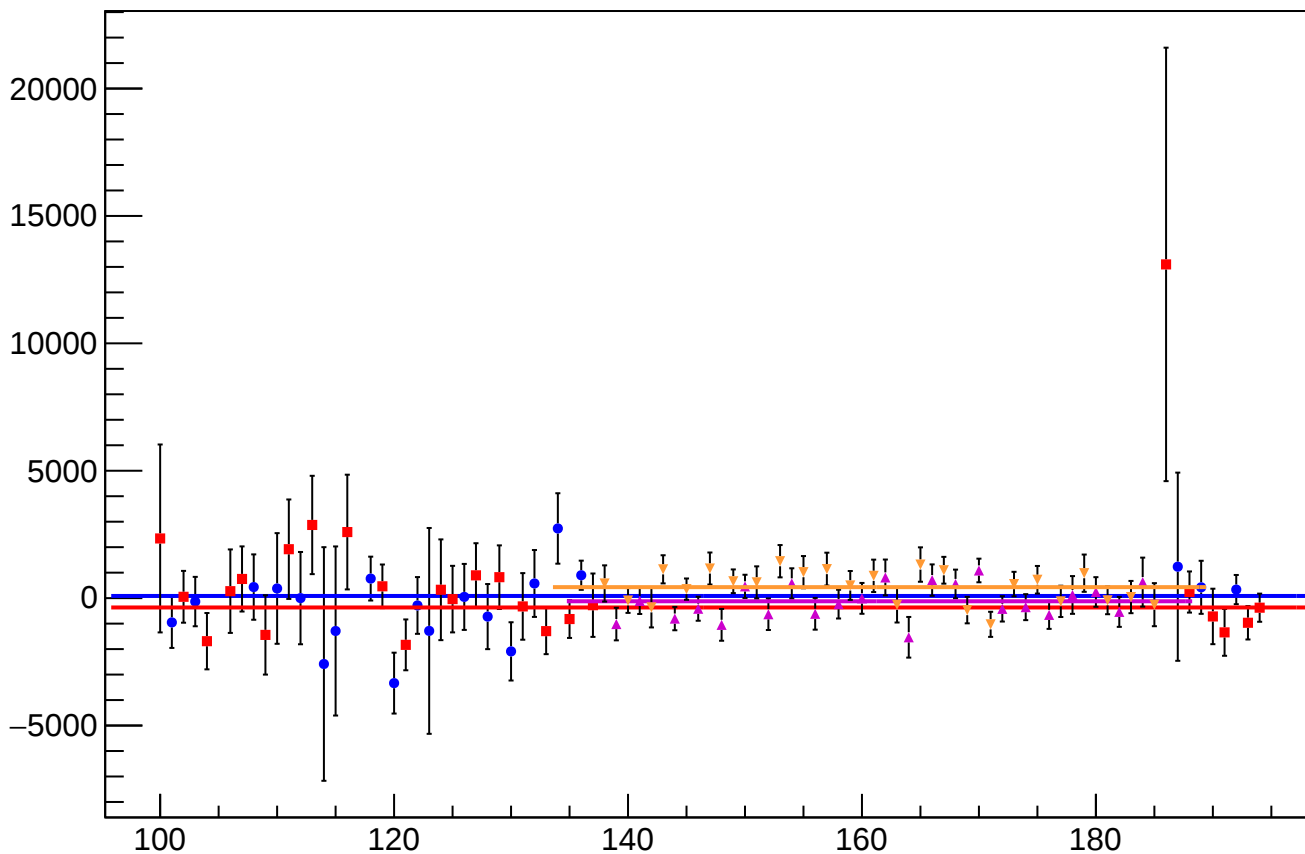
Right: 99.421 $\pm$ 0.017 χ^2 /NDF: 1553572.2/44

In: 91.217 $\pm$ 0.013 χ^2 /NDF: 1209450.3/42

Out: 90.997 $\pm$ 0.012 χ^2 /NDF: 1770346.9/49

All: 91.100 $\pm$ 0.009 χ^2 /NDF: 2979950.1/92

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 85.307+/-246.854 χ^2/NDF : 21.0/19

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -366.186+/-213.599 χ^2/NDF : 21.2/24

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

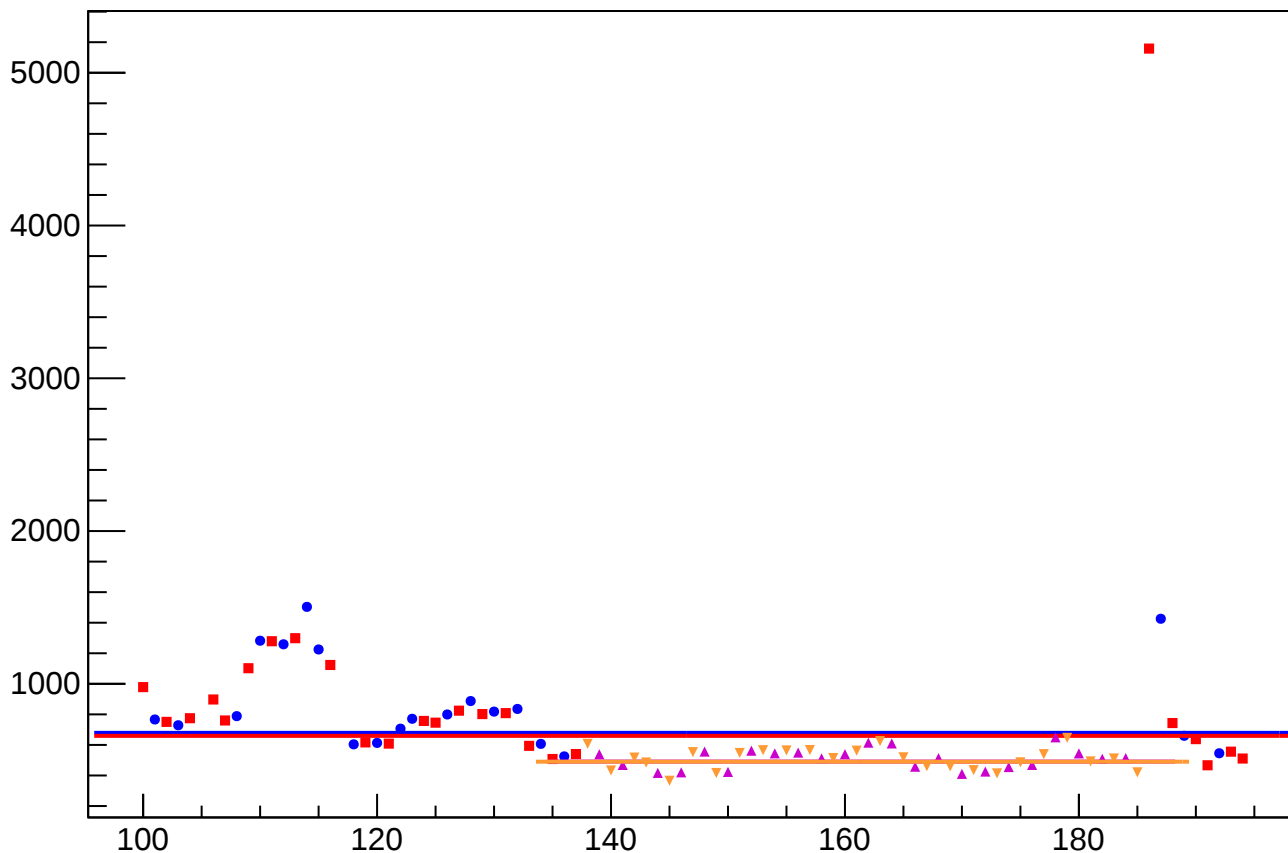
Right: -172.878+/-161.525 χ^2/NDF : 44.2/44

In: -83.814+/-107.084 χ^2/NDF :50.9/42

Out: 250.656+/-101.738 χ^2/NDF :62.5/49

All: 91.979+/-73.757 χ^2/NDF : 118.5/92

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 679.015 $\pm$ 0.175 χ^2 /NDF: 1006393.9/19

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 659.335 $\pm$ 0.151 χ^2 /NDF: 1861391.6/24

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

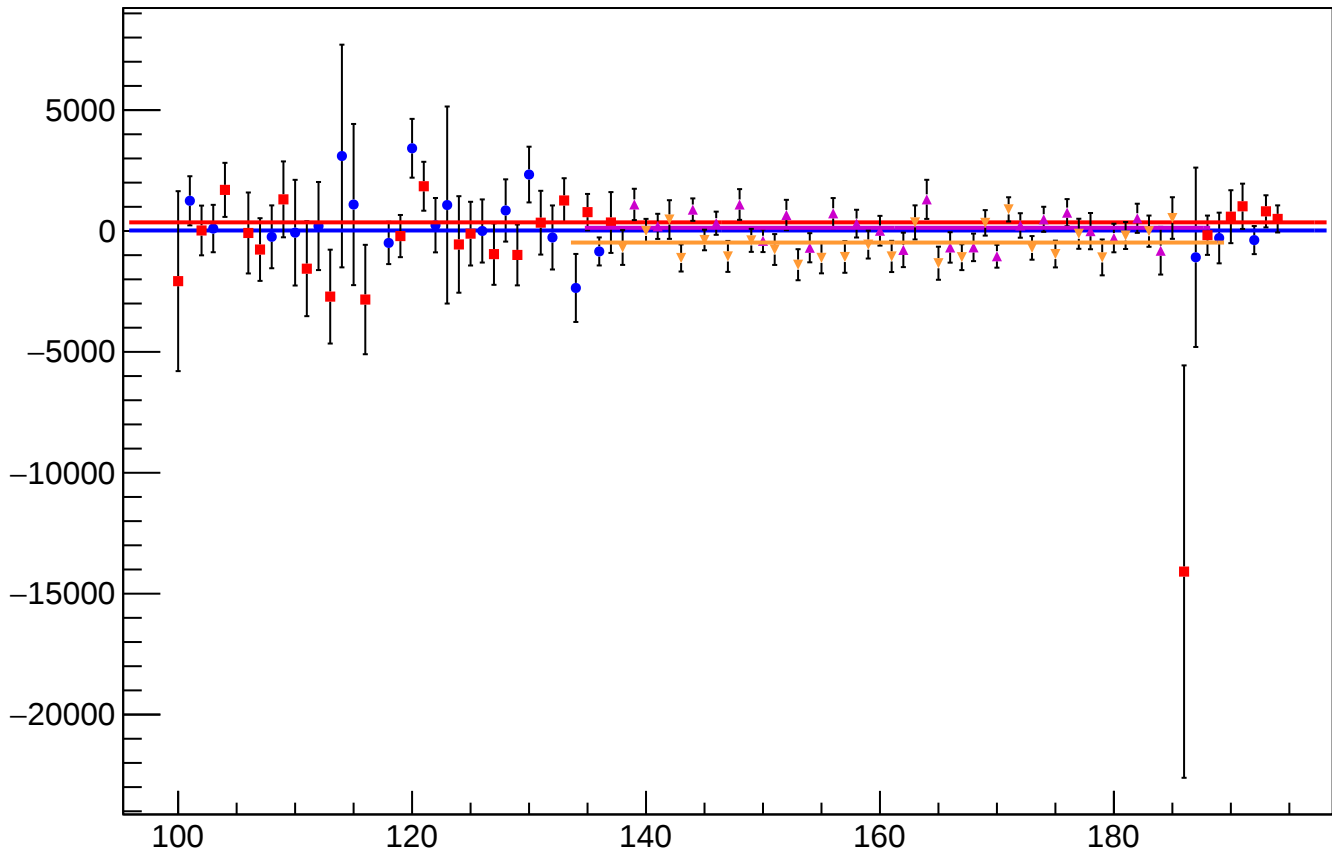
Right: 667.761 $\pm$ 0.114 χ^2 /NDF: 2875054.9/44

In: 526.307 $\pm$ 0.076 χ^2 /NDF: 2538416.8/42

Out: 528.622 $\pm$ 0.072 χ^2 /NDF: 3580414.2/49

All: 527.524 $\pm$ 0.052 χ^2 /NDF: 6119322.2/92

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 21.338 ± 249.792 $\chi^2/\text{NDF}: 20.6/19$

Left Out: -478.197 ± 117.659 $\chi^2/\text{NDF}: 27.8/24$

Right Out: 357.014 ± 216.319 $\chi^2/\text{NDF}: 19.4/24$

Left In: 132.543 ± 120.866 $\chi^2/\text{NDF}: 29.5/22$

Left: -181.037 ± 84.308 $\chi^2/\text{NDF}: 70.5/47$

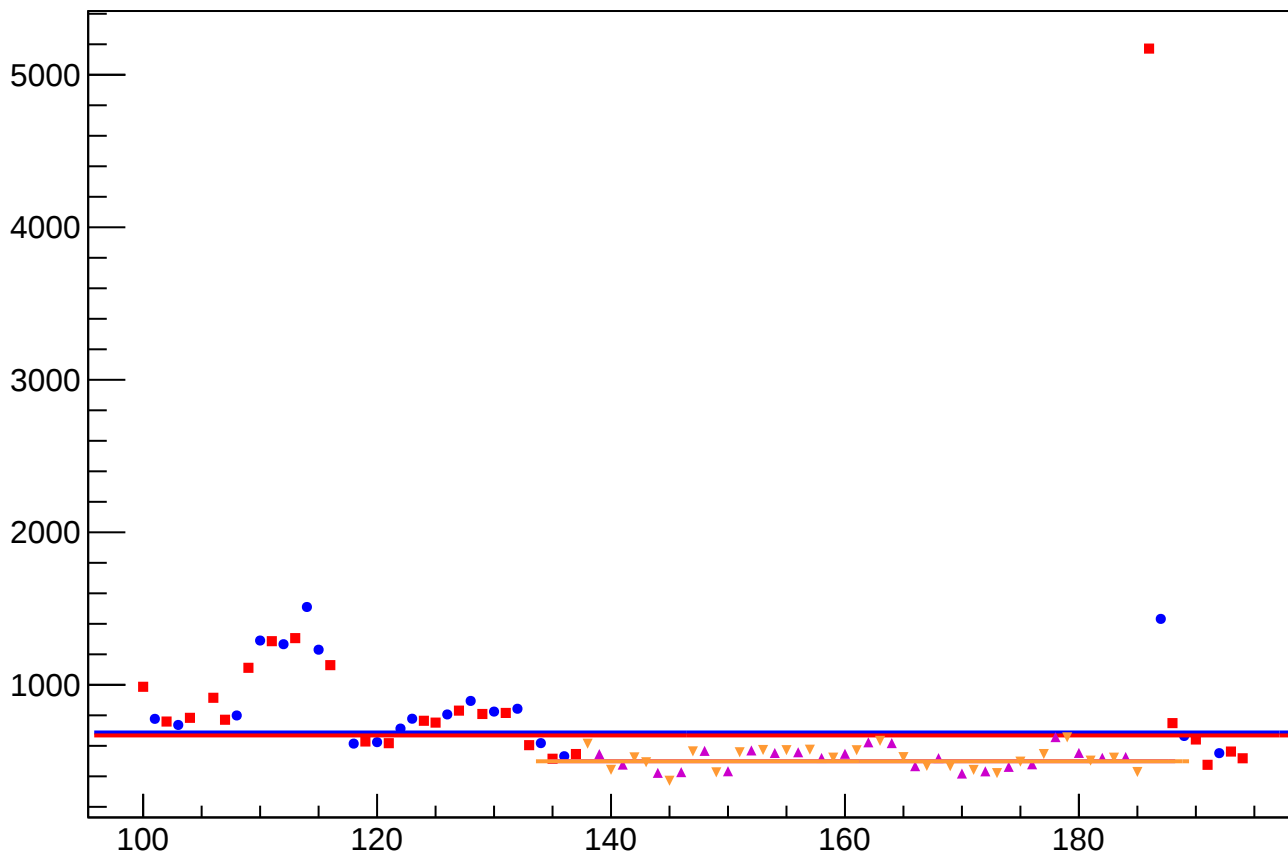
Right: 213.159 ± 163.524 $\chi^2/\text{NDF}: 41.0/44$

In: 111.446 ± 108.799 $\chi^2/\text{NDF}: 50.3/42$

Out: -287.517 ± 103.359 $\chi^2/\text{NDF}: 58.7/49$

All: -98.258 ± 74.935 $\chi^2/\text{NDF}: 116.1/92$

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 687.511+/-0.177 χ^2/NDF : 991331.2/19

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 668.198+/-0.153 χ^2/NDF : 1836882.0/24

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

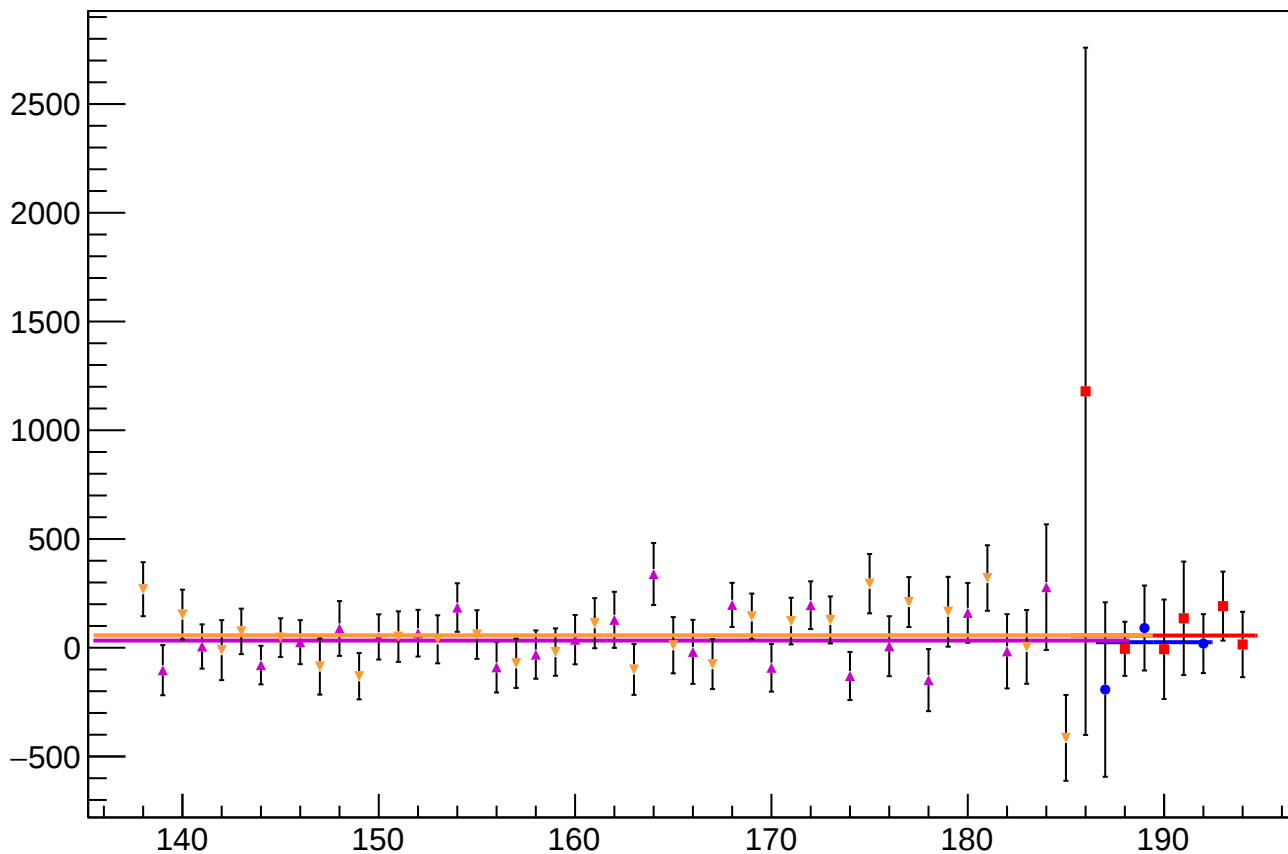
Right: 676.475+/-0.116 χ^2/NDF : 2835044.8/44

In: 535.081+/-0.077 χ^2/NDF : 2486991.0/42

Out: 537.439+/-0.073 χ^2/NDF : 3518165.3/49

All: 536.320+/-0.053 χ^2/NDF : 6005650.0/92

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 25.391 $\pm$ 107.308 χ^2 /NDF: 0.4/2

Left Out: 57.211 $\pm$ 23.714 χ^2 /NDF:29.2/24

Right Out: 56.155 $\pm$ 73.956 χ^2 /NDF: 1.7/5

Left In: 32.948 $\pm$ 24.587 χ^2 /NDF:23.6/22

Left: 45.518 $\pm$ 17.069 χ^2 /NDF: 53.3/47

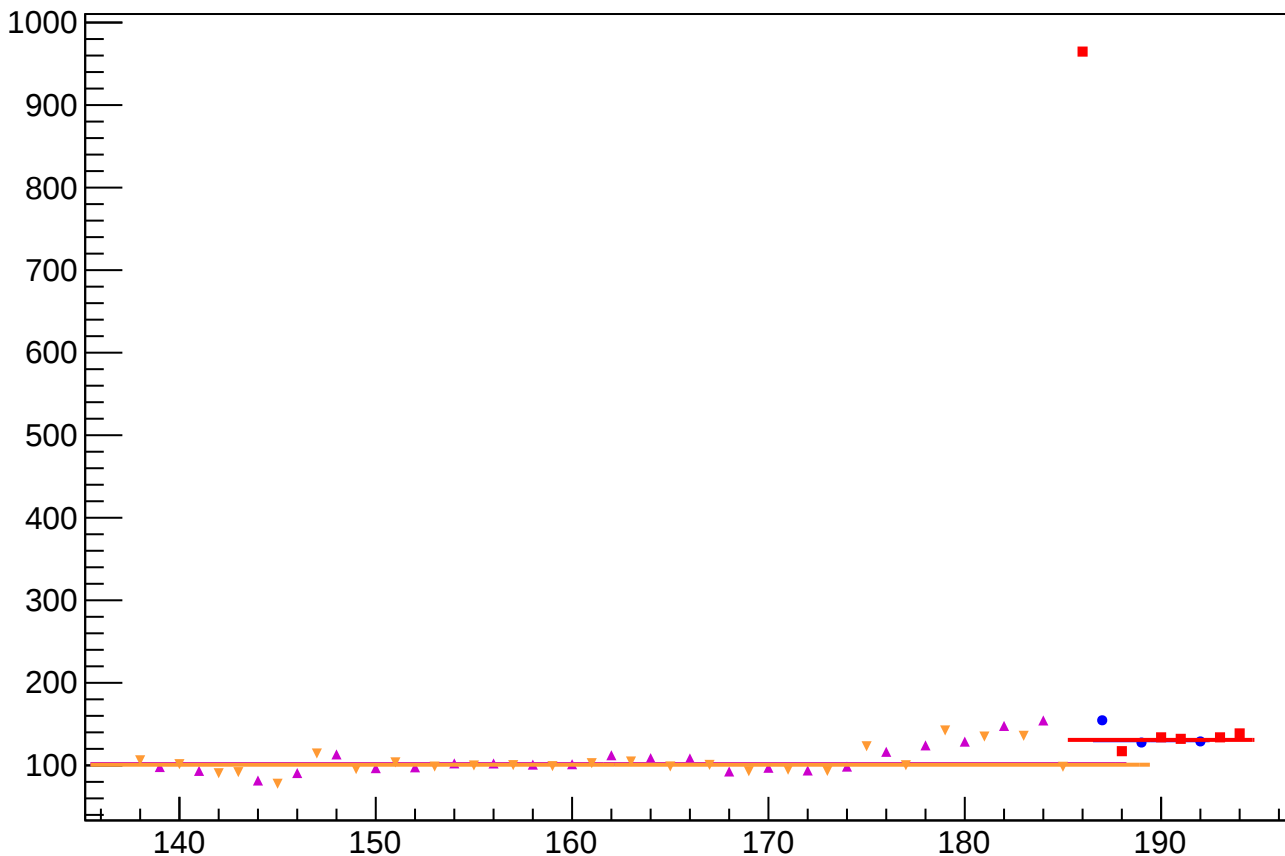
Right: 46.248 $\pm$ 60.895 χ^2 /NDF: 2.2/8

In: 32.571 $\pm$ 23.966 χ^2 /NDF:24.0/25

Out: 57.112 $\pm$ 22.581 χ^2 /NDF:30.9/30

All: 45.571 $\pm$ 16.435 χ^2 /NDF: 55.5/56

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 130.429 $\pm$ 0.076 χ^2 /NDF: 7894.8/2

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 130.864 $\pm$ 0.052 χ^2 /NDF: 587846.7/5

Left In: 101.622 $\pm$ 0.017 χ^2 /NDF: 582329.3/22

Left: 101.196 $\pm$ 0.012 χ^2 /NDF: 1183987.6/47

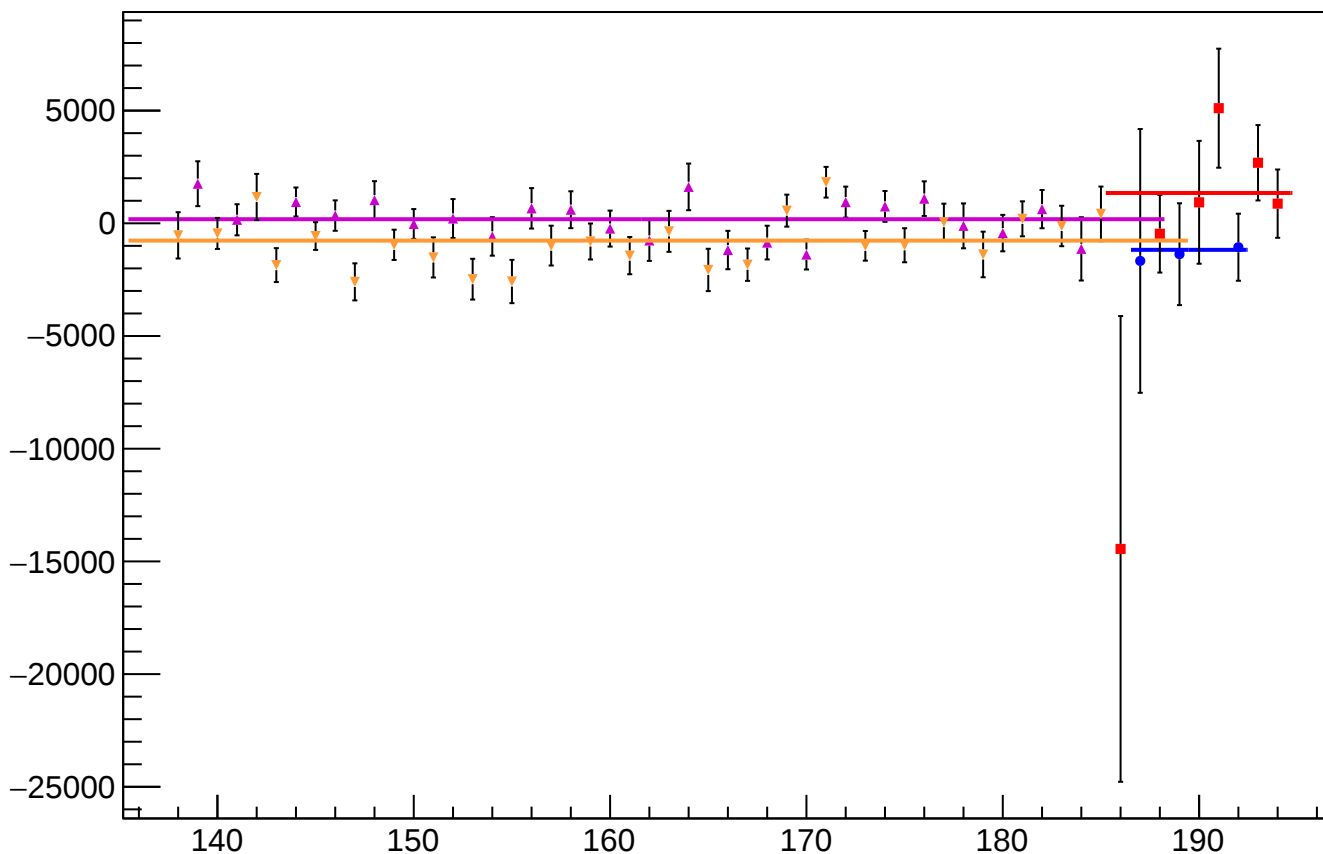
Right: 130.724 $\pm$ 0.043 χ^2 /NDF: 595763.7/8

In: 103.059 $\pm$ 0.017 χ^2 /NDF: 727170.2/25

Out: 103.603 $\pm$ 0.016 χ^2 /NDF: 1488025.9/30

All: 103.347 $\pm$ 0.012 χ^2 /NDF: 2215743.2/56

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1176.581 $\pm$ 1215.260 χ^2 /NDF: 0.0/2

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1345.723 $\pm$ 839.804 χ^2 /NDF: 6.2/5

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

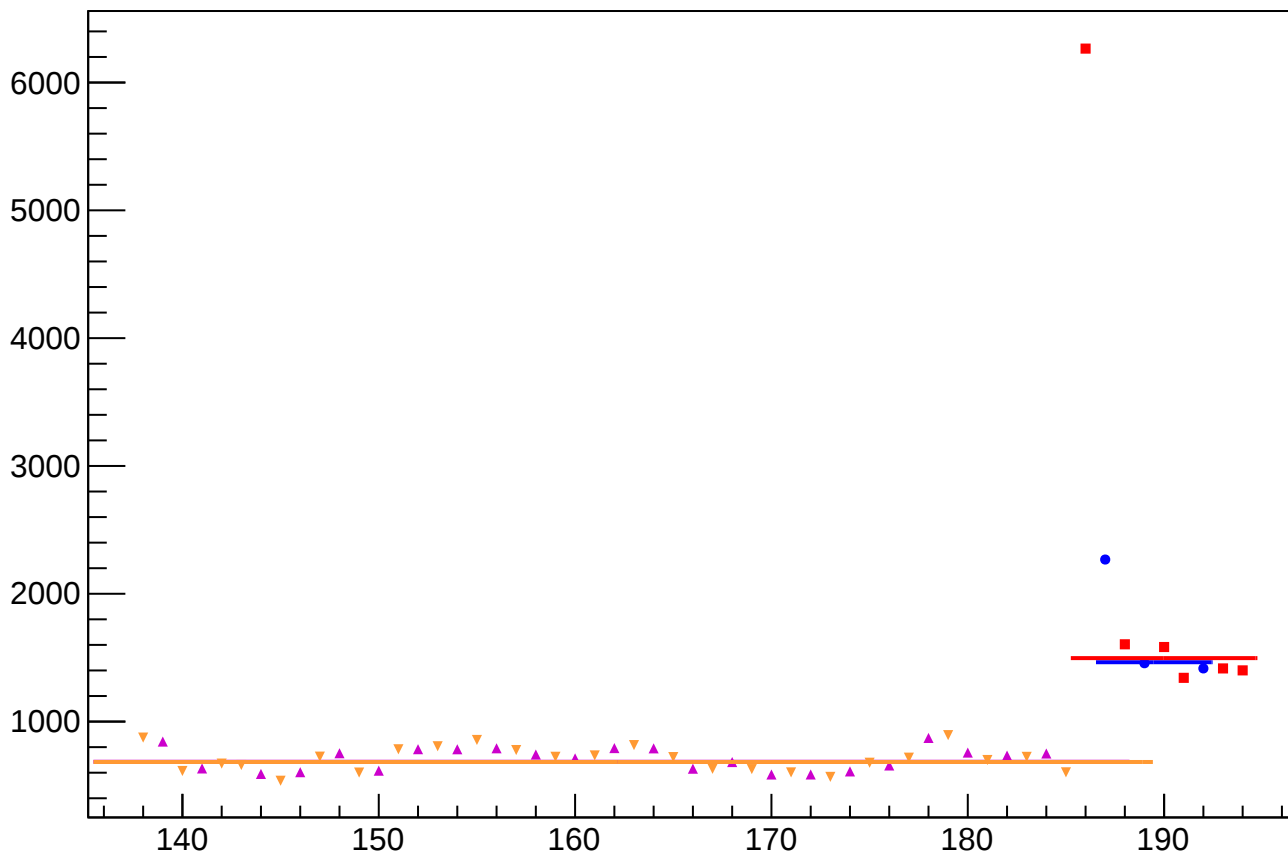
Right: 530.506 $\pm$ 690.887 χ^2 /NDF: 9.2/8

In: 156.803 $\pm$ 164.152 χ^2 /NDF:26.2/25

Out: -691.424 $\pm$ 158.183 χ^2 /NDF:58.9/30

All: -283.013 $\pm$ 113.904 χ^2 /NDF: 99.0/56

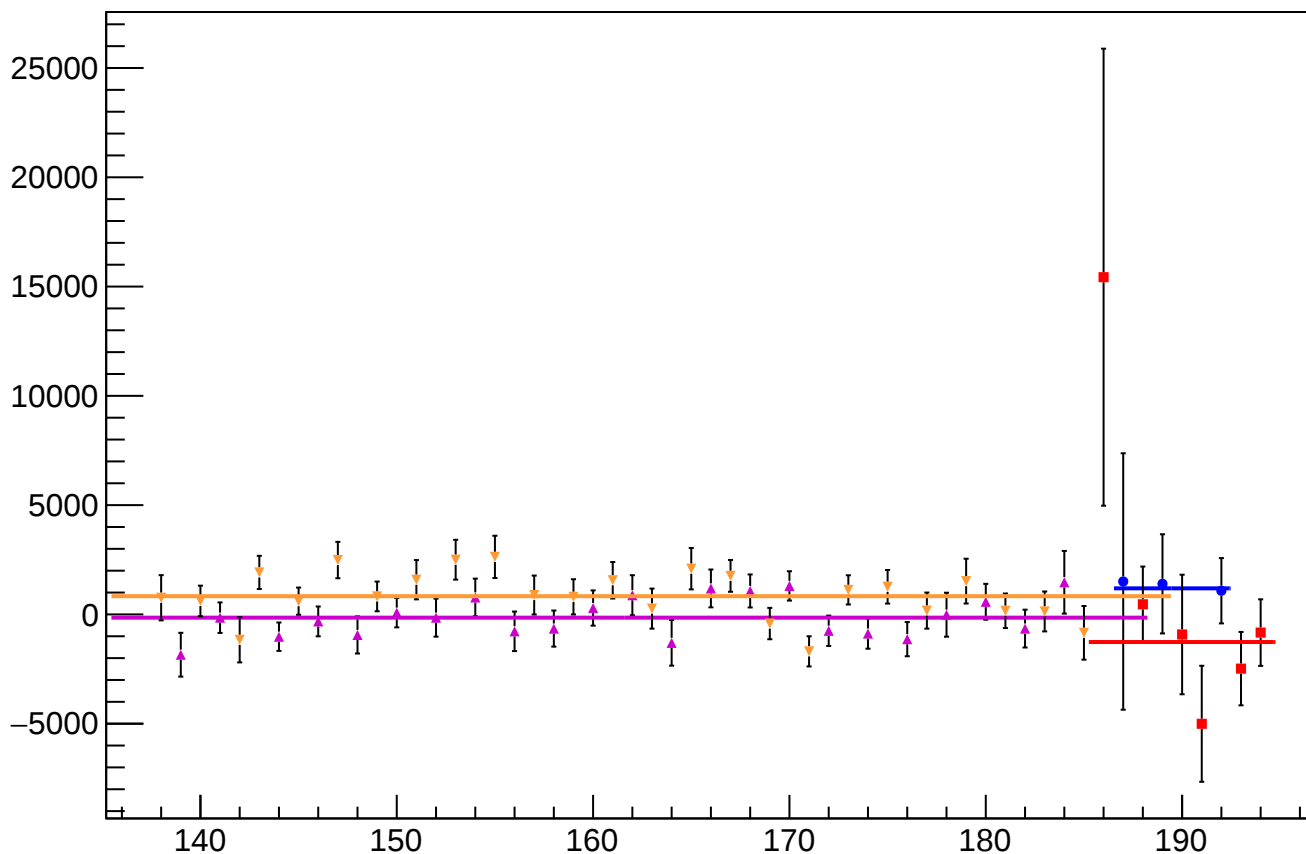
asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1464.428+/-0.859 χ^2/NDF : 39849.1/2
 Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24
 Right Out: 1496.574+/-0.594 χ^2/NDF : 455530.4/5
 Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47
 Right: 1486.185+/-0.489 χ^2/NDF : 496326.6/8
 In: 699.803+/-0.116 χ^2/NDF : 1375668.3/25
 Out: 712.717+/-0.112 χ^2/NDF : 2929178.4/30
 All: 706.499+/-0.081 χ^2/NDF : 4311265.3/56

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1192.245 $\pm$ 1220.197 χ^2 /NDF: 0.0/2

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -1263.509 $\pm$ 843.467 χ^2 /NDF: 6.2/5

Left In: -148.814 $\pm$ 167.644 χ^2 /NDF:26.0/22

Left: 356.189 $\pm$ 116.853 χ^2 /NDF: 86.9/47

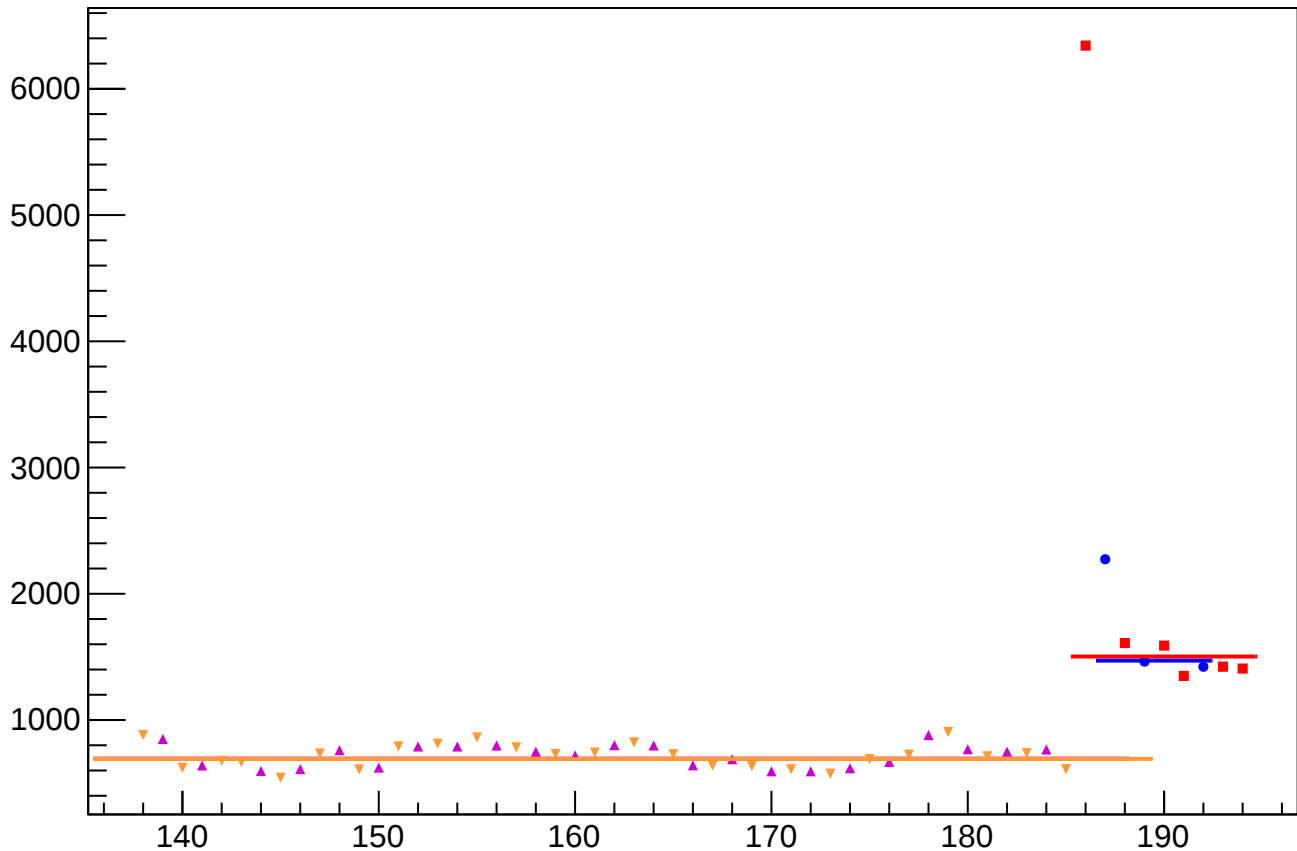
Right: -469.482 $\pm$ 693.834 χ^2 /NDF: 8.9/8

In: -123.969 $\pm$ 166.084 χ^2 /NDF:27.2/25

Out: 757.935 $\pm$ 160.006 χ^2 /NDF:55.3/30

All: 333.415 $\pm$ 115.230 χ^2 /NDF: 97.2/56

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1470.499+/-0.863 χ^2/NDF : 39616.9/2

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1503.037+/-0.596 χ^2/NDF : 457255.7/5

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

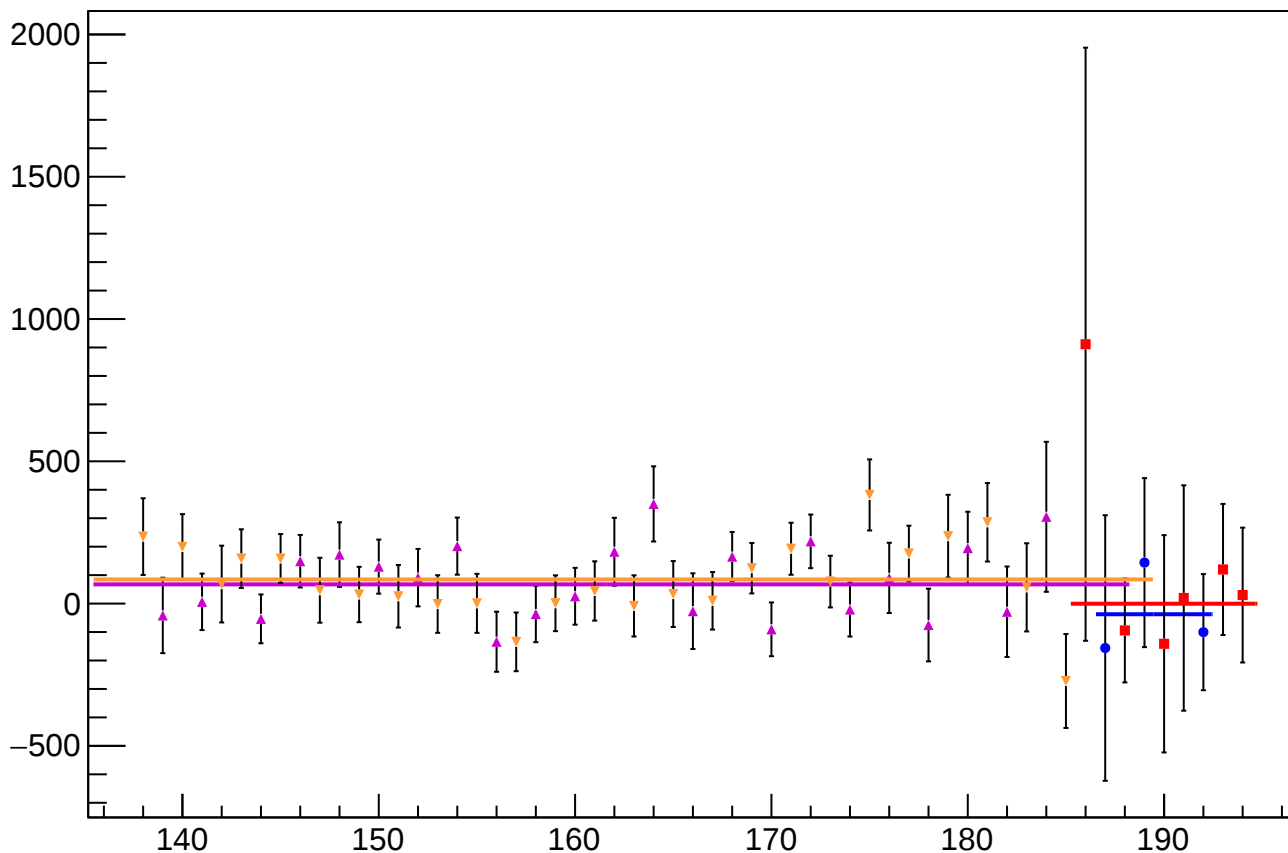
Right: 1492.516+/-0.491 χ^2/NDF : 497835.0/8

In: 708.255+/-0.117 χ^2/NDF : 1356874.9/25

Out: 721.279+/-0.113 χ^2/NDF : 2896710.2/30

All: 715.010+/-0.081 χ^2/NDF : 4259963.6/56

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -37.442 ± 158.200 χ^2/NDF : 0.5/2

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -0.434 ± 111.269 χ^2/NDF : 1.5/5

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

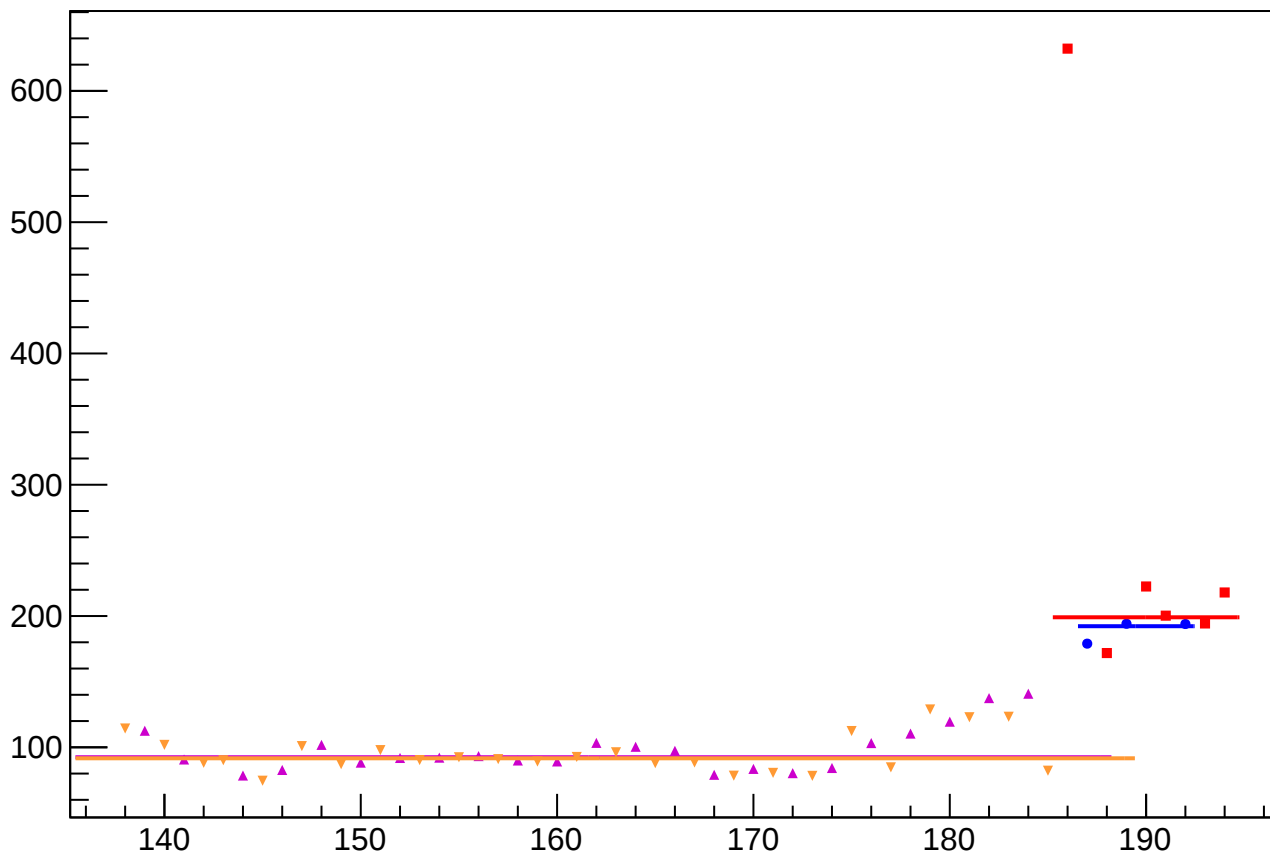
Right: -12.683 ± 91.012 χ^2/NDF : 2.0/8

In: 65.480 ± 22.227 χ^2/NDF : 29.8/25

Out: 81.750 ± 21.245 χ^2/NDF : 30.5/30

All: 73.982 ± 15.358 χ^2/NDF : 60.6/56

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 192.247 $\pm$ 0.112 χ^2 /NDF: 1831.8/2

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF:693122.0/24

Right Out: 199.044 $\pm$ 0.079 χ^2 /NDF: 411104.0/5

Left In: 92.466 $\pm$ 0.016 χ^2 /NDF:655700.4/22

Left: 92.034 $\pm$ 0.011 χ^2 /NDF: 1350250.3/47

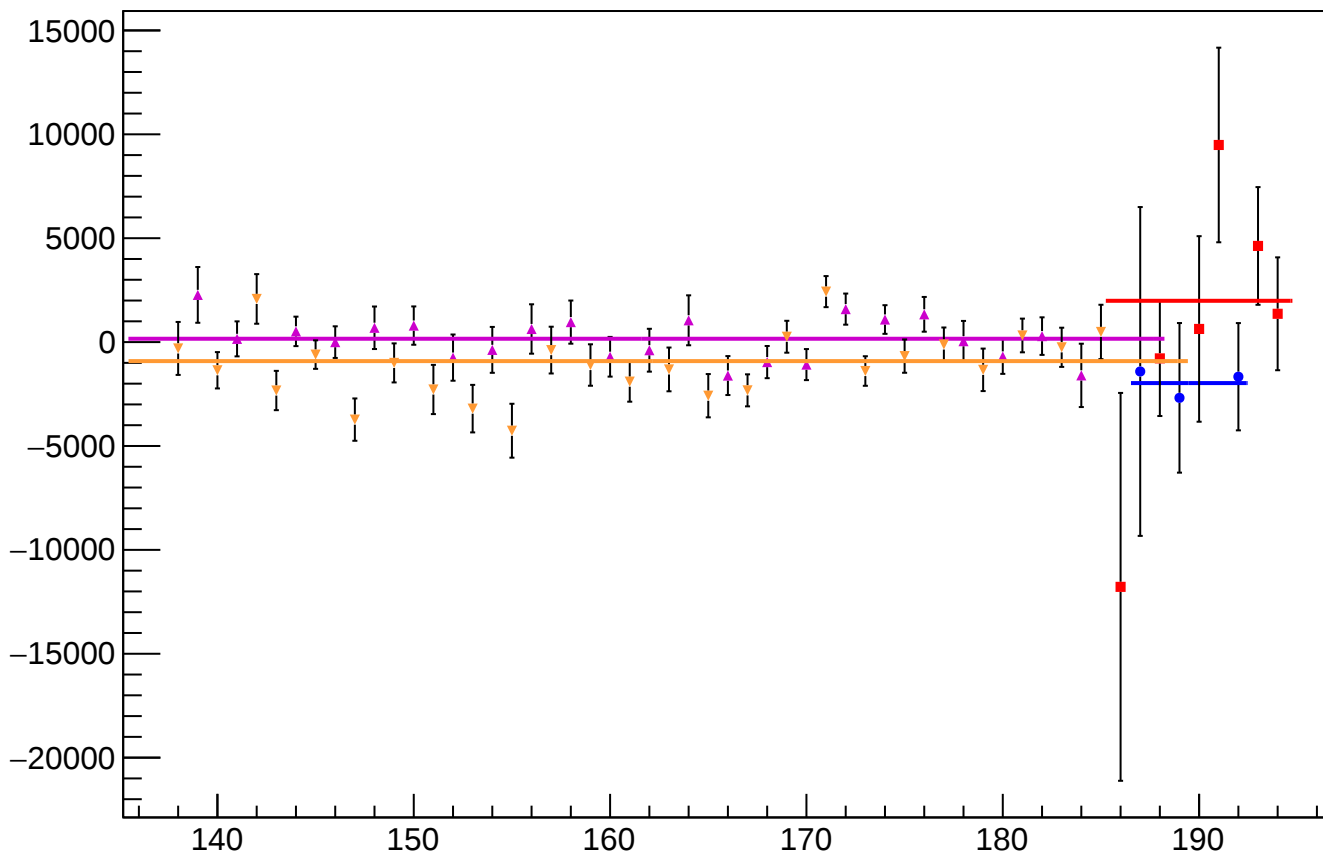
Right: 196.794 $\pm$ 0.064 χ^2 /NDF: 415405.9/8

In: 94.436 $\pm$ 0.016 χ^2 /NDF:1437460.8/25

Out: 95.548 $\pm$ 0.015 χ^2 /NDF:2899999.3/30

All: 95.017 $\pm$ 0.011 χ^2 /NDF: 4340080.0/56

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1972.372 ± 2027.939 $\chi^2/\text{NDF}: 0.1/2$

Left Out: -914.719 ± 185.341 $\chi^2/\text{NDF}: 64.2/24$

Right Out: 1987.760 ± 1417.991 $\chi^2/\text{NDF}: 6.8/5$

Left In: 161.076 ± 189.491 $\chi^2/\text{NDF}: 25.1/22$

Left: -388.730 ± 132.499 $\chi^2/\text{NDF}: 105.7/47$

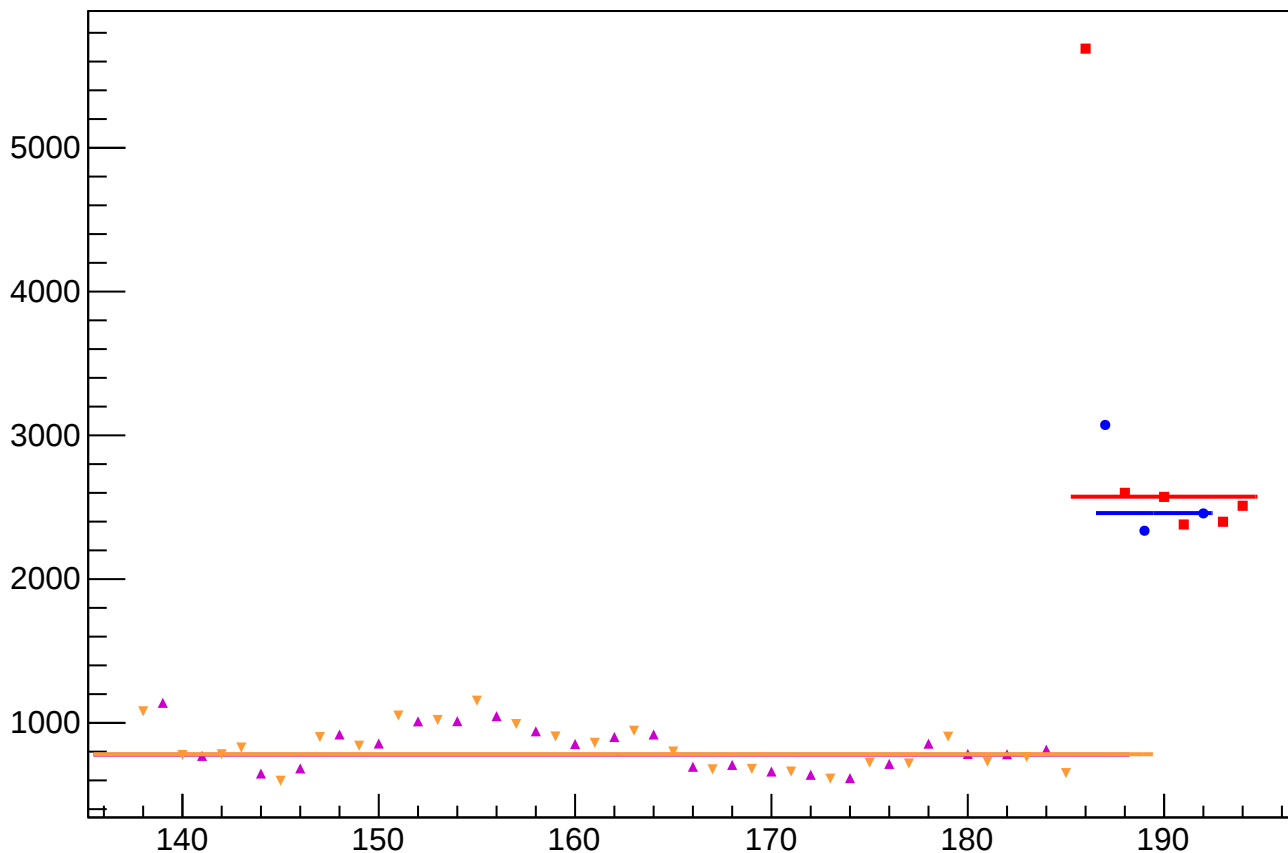
Right: 687.364 ± 1162.085 $\chi^2/\text{NDF}: 9.4/8$

In: 142.610 ± 188.669 $\chi^2/\text{NDF}: 26.2/25$

Out: -865.965 ± 183.778 $\chi^2/\text{NDF}: 75.0/30$

All: -374.920 ± 131.646 $\chi^2/\text{NDF}: 115.9/56$

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2459.306 $\pm$ 1.434 χ^2 /NDF: 14332.6/2

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2573.514 $\pm$ 1.003 χ^2 /NDF: 235236.6/5

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF: 980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

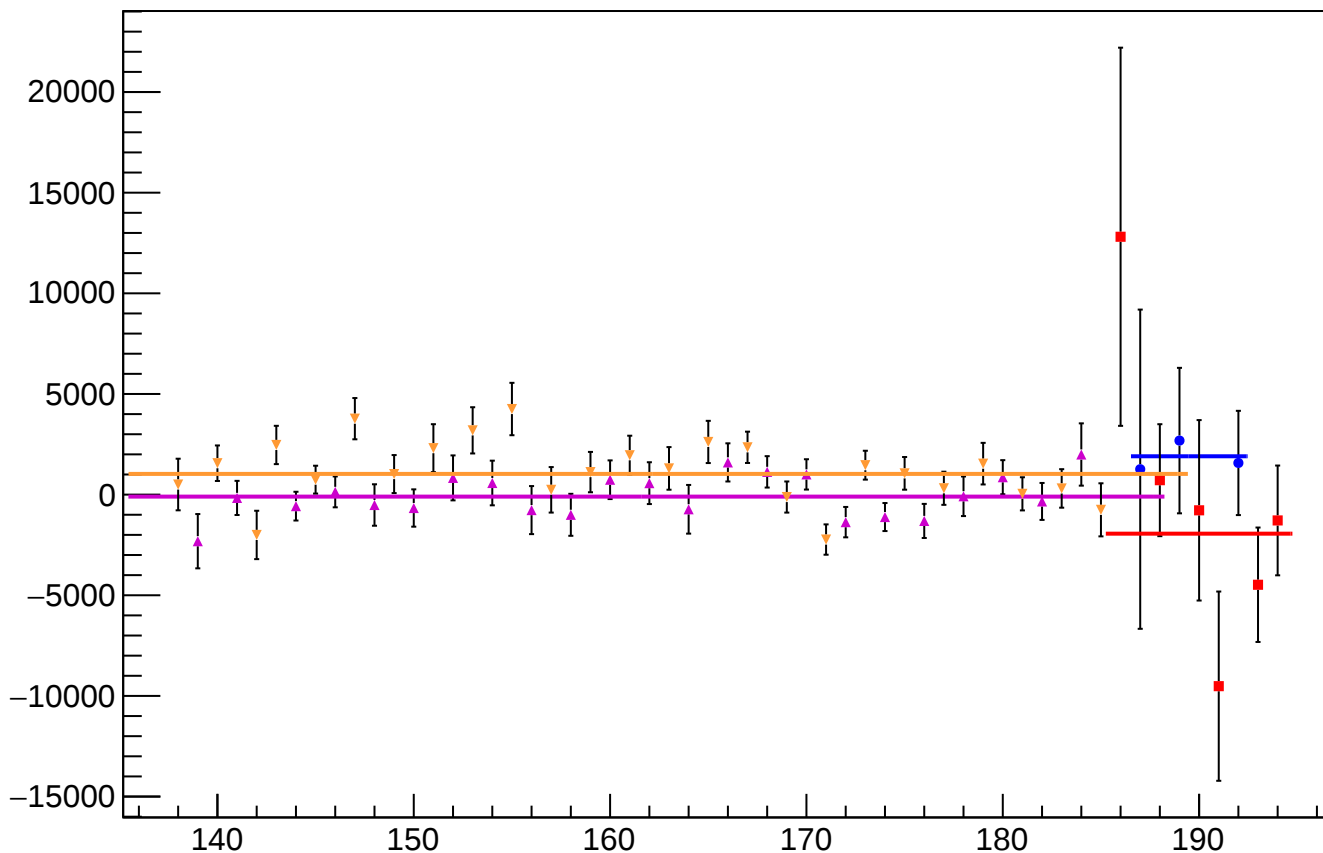
Right: 2536.011 $\pm$ 0.822 χ^2 /NDF: 253829.4/8

In: 793.539 $\pm$ 0.133 χ^2 /NDF: 2355784.8/25

Out: 812.134 $\pm$ 0.130 χ^2 /NDF: 4504896.0/30

All: 803.080 $\pm$ 0.093 χ^2 /NDF: 6870649.8/56

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1904.959+/-2034.518 χ^2/NDF : 0.1/2

Left Out: 1028.864+/-186.810 χ^2/NDF :60.2/24

Right Out: -1939.805+/-1422.904 χ^2/NDF : 6.9/5

Left In: -98.691+/-191.027 χ^2/NDF :25.4/22

Left: 477.669+/-133.561 χ^2/NDF : 103.3/47

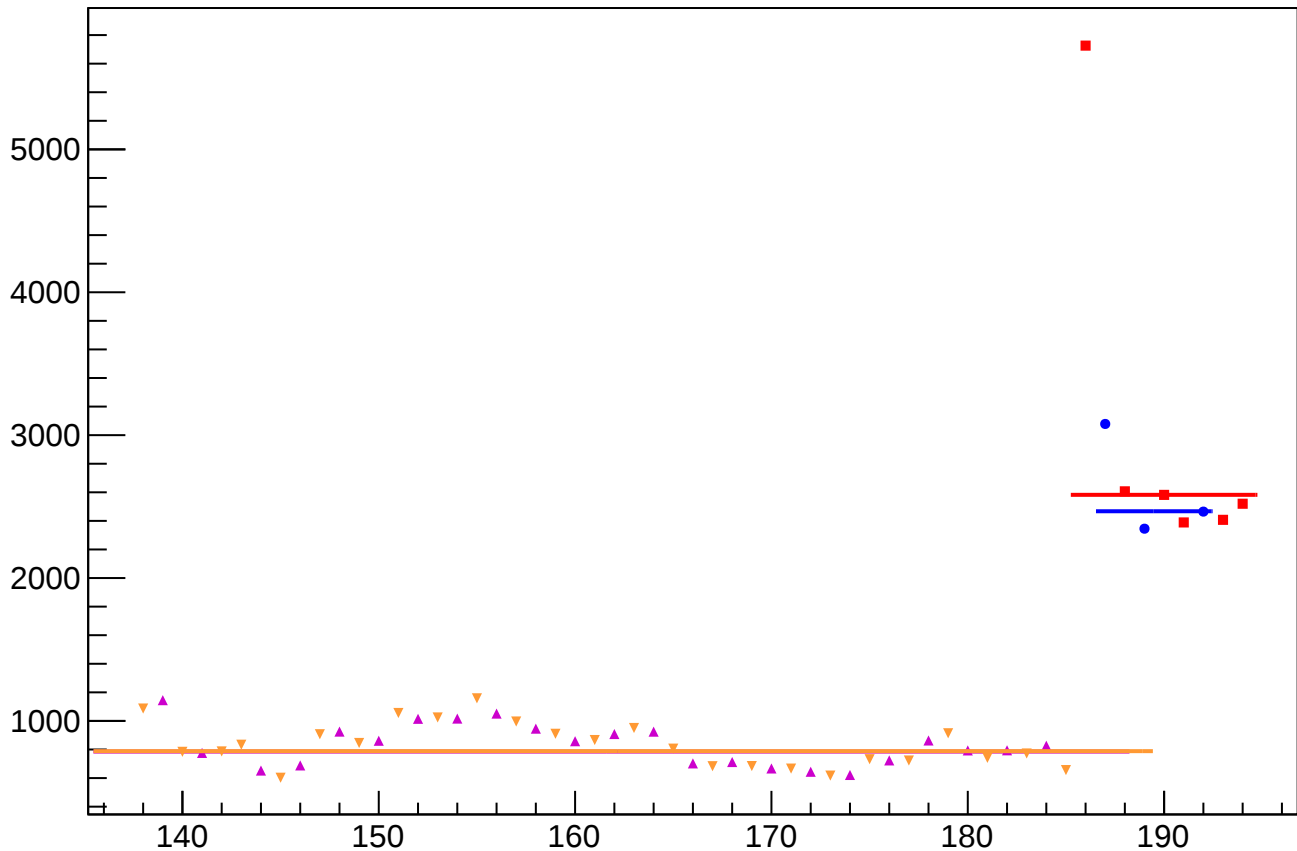
Right: -676.920+/-1166.027 χ^2/NDF : 9.4/8

In: -81.182+/-190.190 χ^2/NDF :26.4/25

Out: 978.561+/-185.221 χ^2/NDF :71.3/30

All: 462.716+/-132.693 χ^2/NDF : 113.7/56

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2467.416 $\pm$ 1.439 χ^2/NDF : 14160.4/2

Left Out: 788.442 $\pm$ 0.132 χ^2/NDF :1113741.6/24

Right Out: 2582.338 $\pm$ 1.006 χ^2/NDF : 236174.6/5

Left In: 785.490 $\pm$ 0.135 χ^2/NDF :965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2/NDF : 2079324.6/47

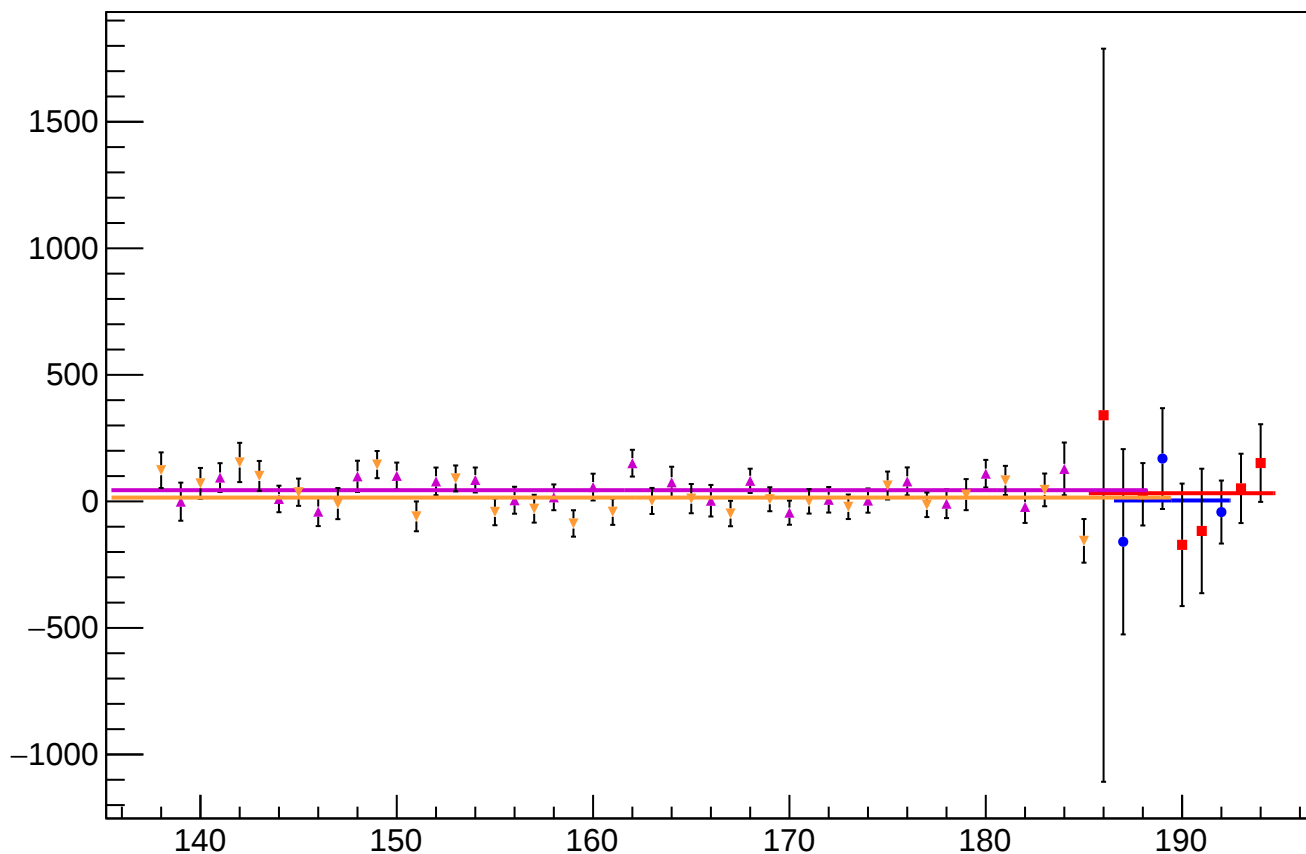
Right: 2544.590 $\pm$ 0.825 χ^2/NDF : 254620.3/8

In: 800.188 $\pm$ 0.134 χ^2/NDF :2334404.3/25

Out: 818.839 $\pm$ 0.131 χ^2/NDF :4474929.5/30

All: 809.760 $\pm$ 0.094 χ^2/NDF : 6819204.1/56

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 3.688+/-101.434 χ^2/NDF : 1.0/2

Left Out: 15.099+/-11.154 χ^2/NDF :34.2/24

Right Out: 32.314+/-71.505 χ^2/NDF : 1.7/5

Left In: 44.297+/-11.530 χ^2/NDF :22.3/22

Left: 29.215+/-8.017 χ^2/NDF : 59.8/47

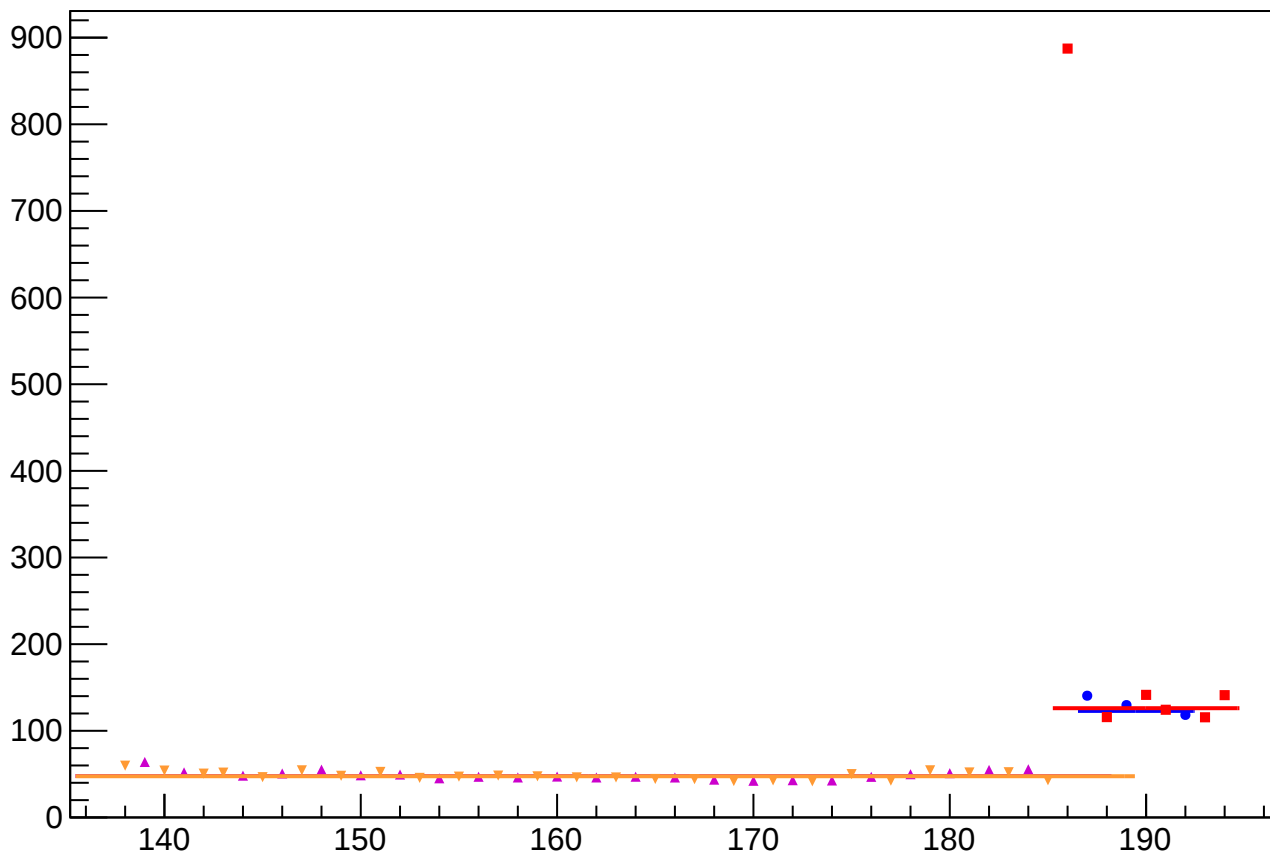
Right: 22.811+/-58.443 χ^2/NDF : 2.8/8

In: 43.779+/-11.456 χ^2/NDF :23.5/25

Out: 15.508+/-11.021 χ^2/NDF :36.0/30

All: 29.097+/-7.942 χ^2/NDF : 62.6/56

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 122.986 $\pm$ 0.072 χ^2 /NDF: 9638.4/2

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 126.094 $\pm$ 0.051 χ^2 /NDF: 605569.3/5

Left In: 47.846 $\pm$ 0.008 χ^2 /NDF: 281790.1/22

Left: 47.712 $\pm$ 0.006 χ^2 /NDF: 595189.7/47

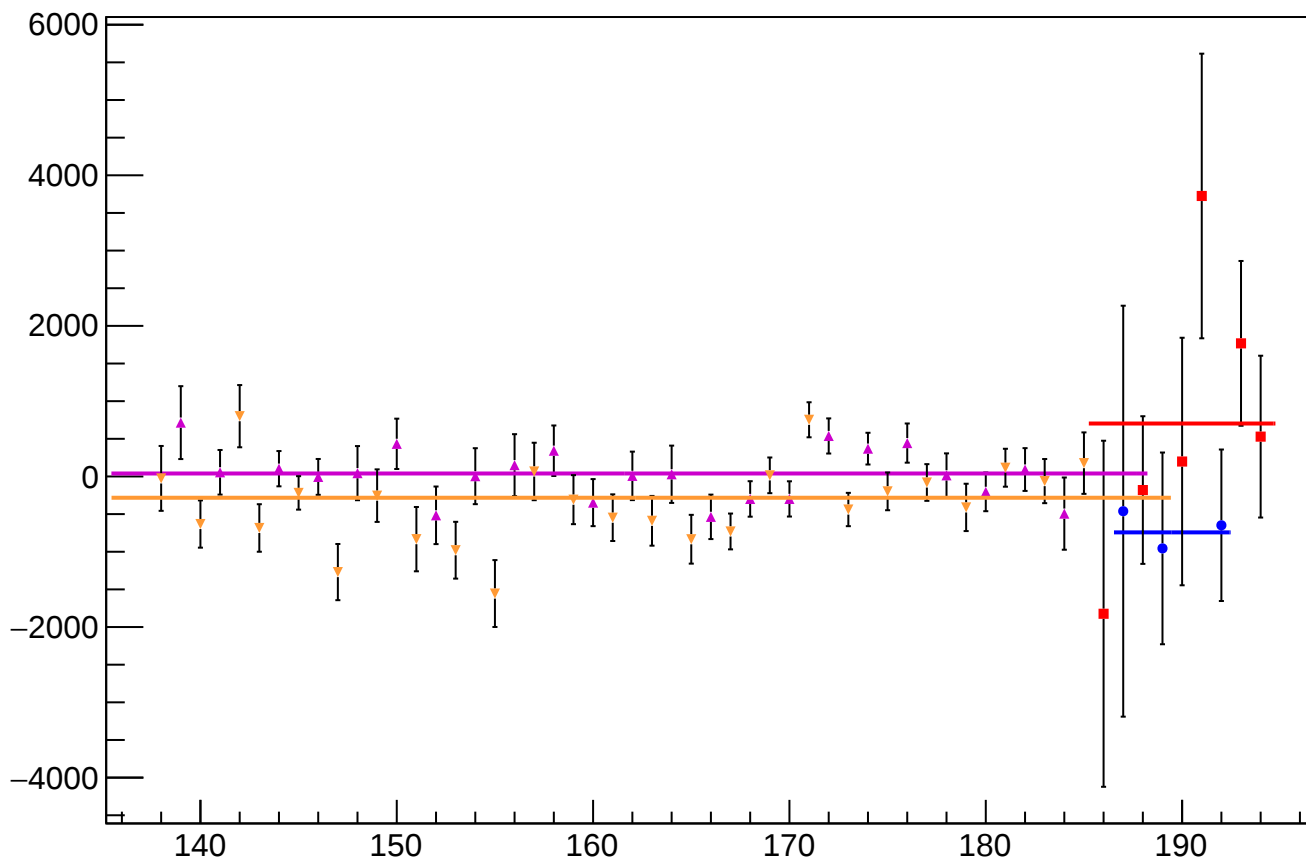
Right: 125.062 $\pm$ 0.041 χ^2 /NDF: 616462.2/8

In: 48.805 $\pm$ 0.008 χ^2 /NDF: 1374941.4/25

Out: 49.451 $\pm$ 0.008 χ^2 /NDF: 3272085.2/30

All: 49.140 $\pm$ 0.006 χ^2 /NDF: 4650336.7/56

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -742.763+/-758.306 χ^2/NDF : 0.0/2

Left Out: -282.798+/-59.690 χ^2/NDF : 66.5/24

Right Out: 703.124+/-528.466 χ^2/NDF : 5.6/5

Left In: 39.432+/-60.759 χ^2/NDF : 27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

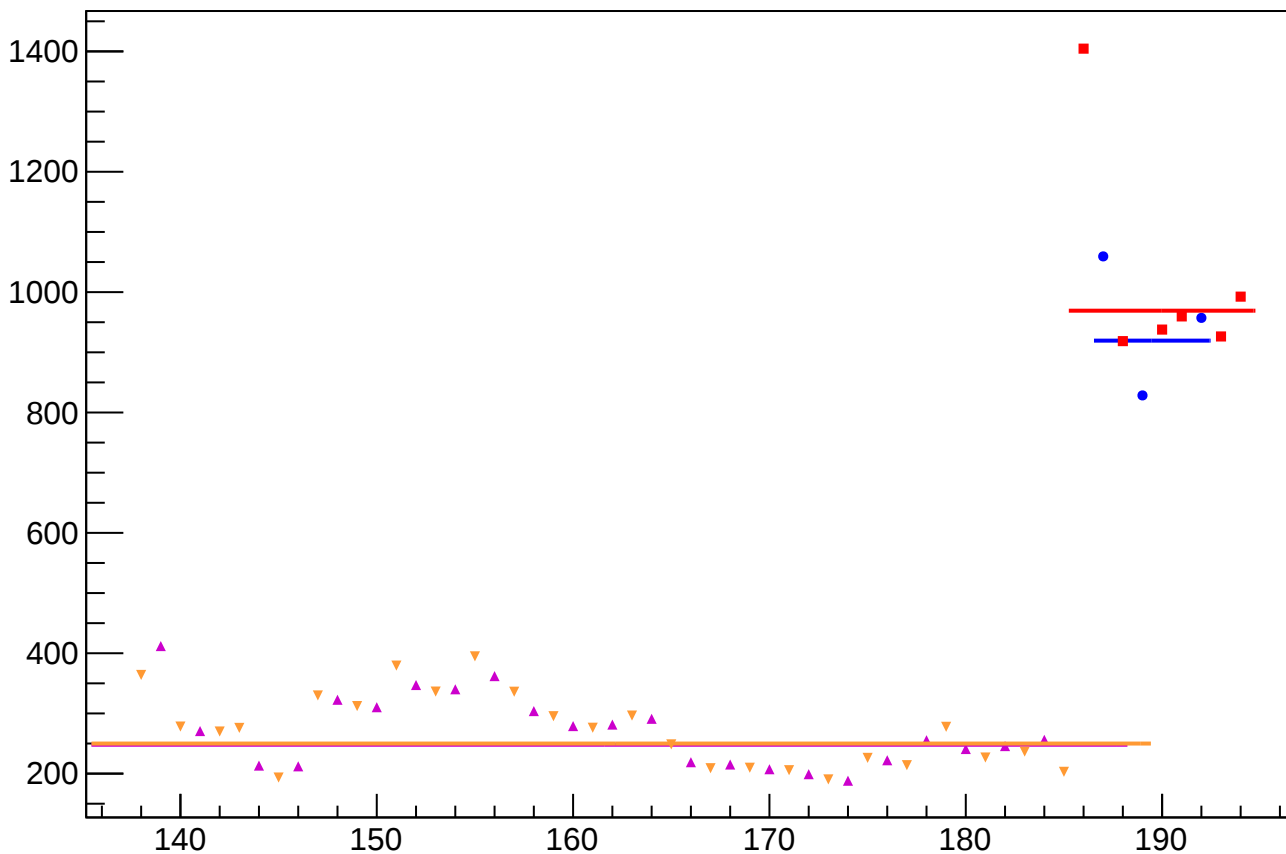
Right: 230.457+/-433.566 χ^2/NDF : 8.1/8

In: 34.442+/-60.565 χ^2/NDF : 28.7/25

Out: -270.379+/-59.313 χ^2/NDF : 75.6/30

All: -121.152+/-42.376 χ^2/NDF : 117.2/56

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 919.420 $\pm$ 0.536 χ^2 /NDF: 18306.2/2

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 969.172 $\pm$ 0.374 χ^2 /NDF: 81887.7/5

Left In: 247.917 $\pm$ 0.043 χ^2 /NDF:1410847.5/22

Left: 248.955 $\pm$ 0.030 χ^2 /NDF: 3026200.1/47

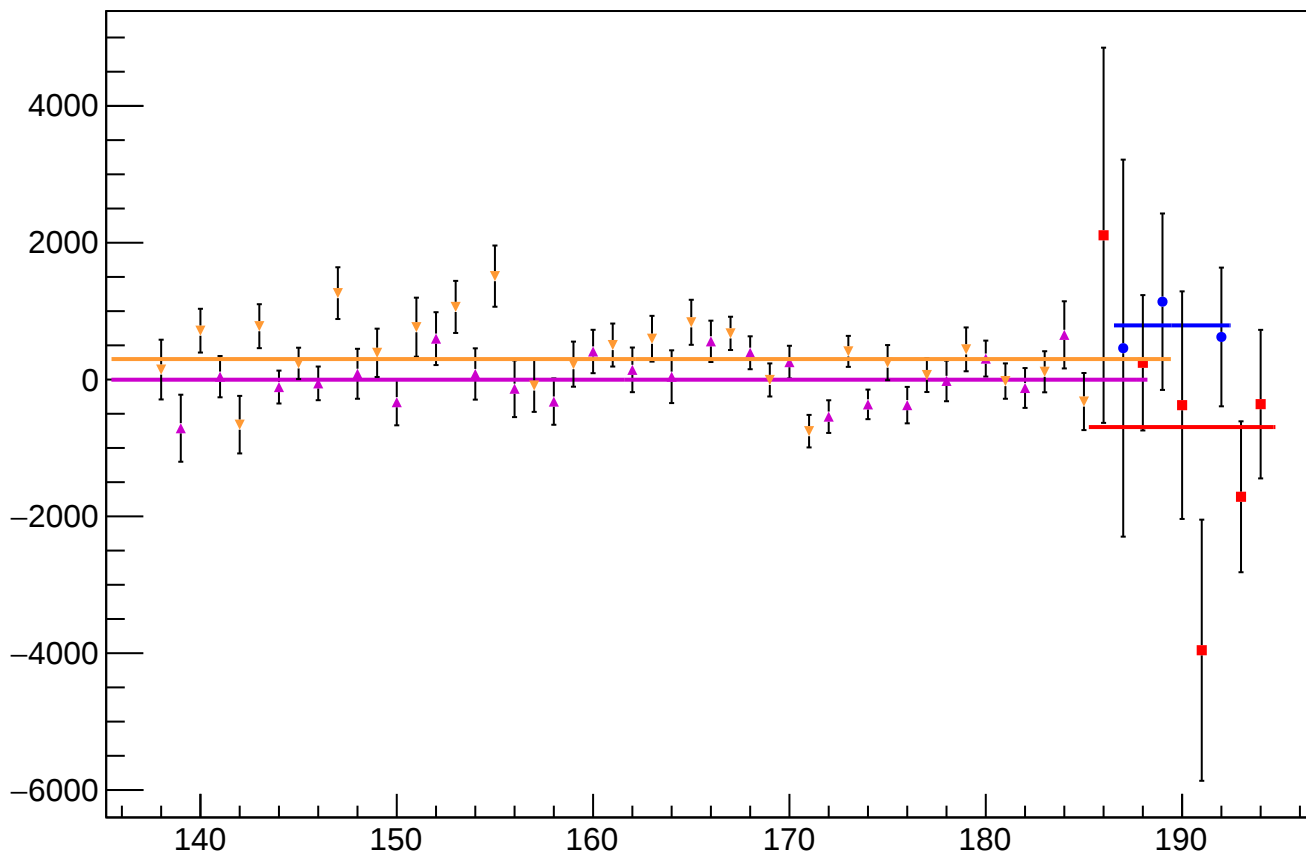
Right: 952.907 $\pm$ 0.307 χ^2 /NDF: 105988.6/8

In: 252.200 $\pm$ 0.043 χ^2 /NDF:2987477.8/25

Out: 259.016 $\pm$ 0.042 χ^2 /NDF:5353795.3/30

All: 255.680 $\pm$ 0.030 χ^2 /NDF: 8354202.4/56

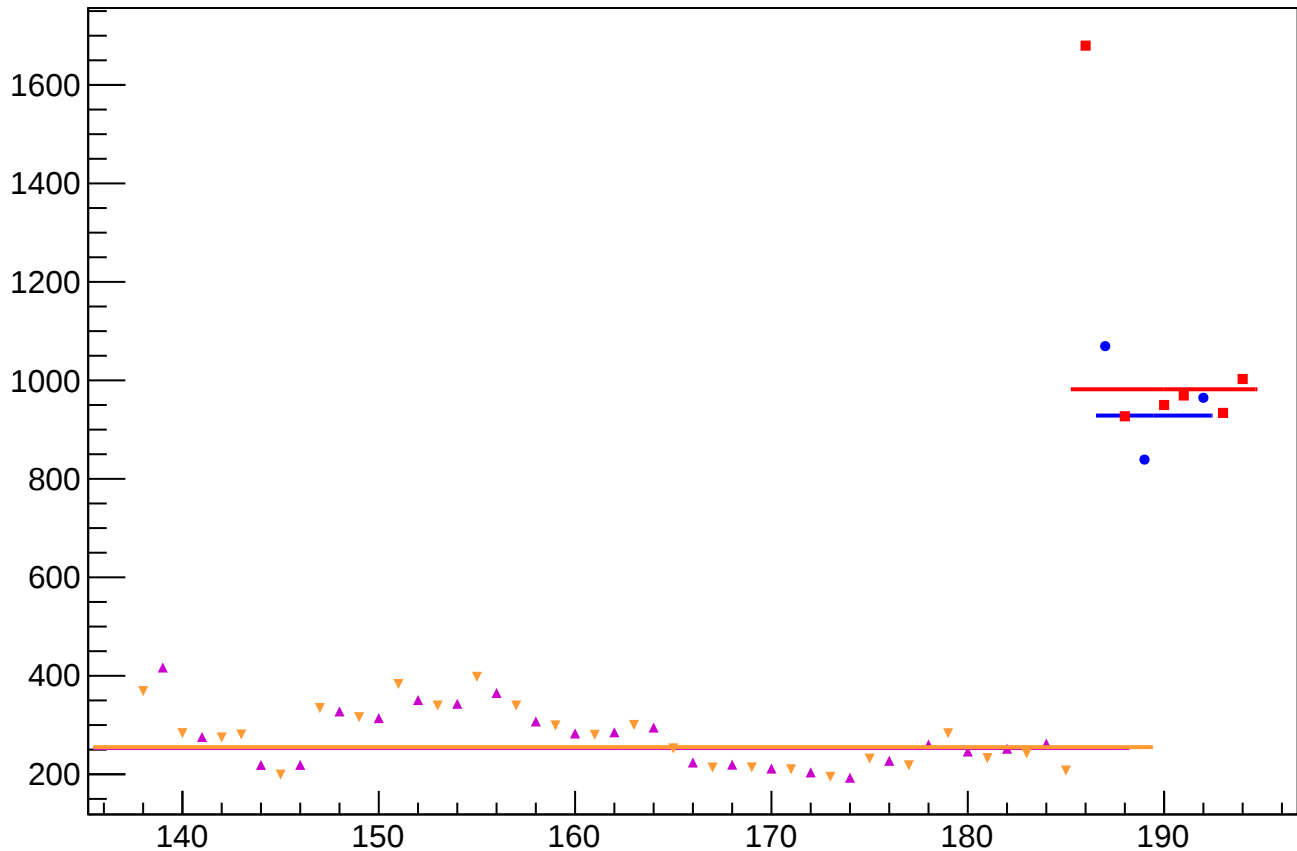
asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 791.670+/-765.639 χ^2/NDF : 0.1/2
 Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24
 Right Out: -694.499+/-537.549 χ^2/NDF : 5.9/5
 Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47
 Right: -203.799+/-439.944 χ^2/NDF : 8.5/8
 In: 2.987+/-61.802 χ^2/NDF : 30.4/25
 Out: 286.982+/-60.473 χ^2/NDF : 71.7/30
 All: 148.071+/-43.223 χ^2/NDF : 112.8/56

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 928.488 $\pm$ 0.541 χ^2 /NDF: 17384.1/2

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF: 1542039.5/24

Right Out: 981.920 $\pm$ 0.380 χ^2 /NDF: 141024.3/5

Left In: 253.287 $\pm$ 0.044 χ^2 /NDF: 1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47

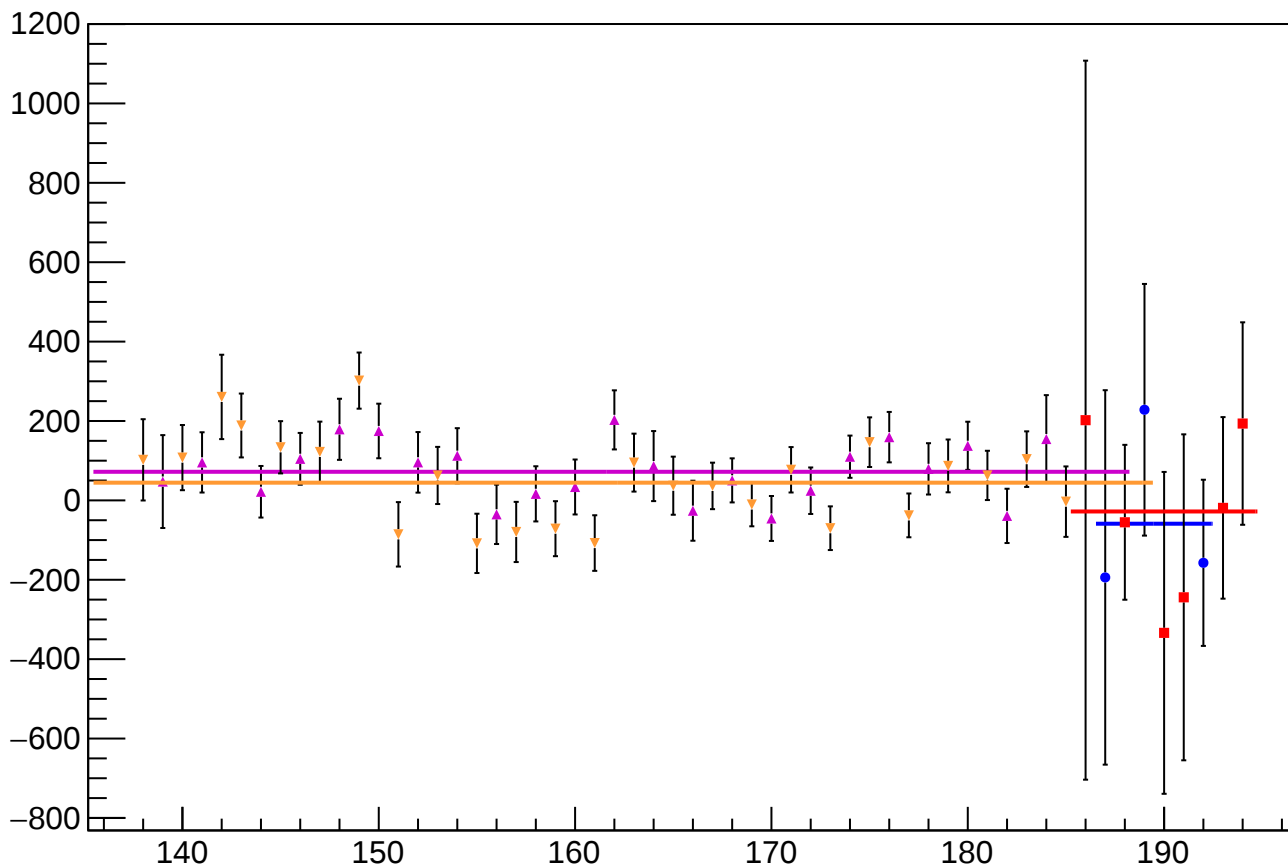
Right: 964.278 $\pm$ 0.311 χ^2 /NDF: 164932.9/8

In: 257.687 $\pm$ 0.044 χ^2 /NDF: 2904332.2/25

Out: 264.333 $\pm$ 0.043 χ^2 /NDF: 5292787.7/30

All: 261.082 $\pm$ 0.031 χ^2 /NDF: 8208937.5/56

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -58.787 $\pm$ 163.804 χ^2 /NDF: 1.1/2

Left Out: 44.602 $\pm$ 13.824 χ^2 /NDF:53.9/24

Right Out: -27.941 $\pm$ 116.247 χ^2 /NDF: 1.7/5

Left In: 72.037 $\pm$ 14.296 χ^2 /NDF:25.3/22

Left: 57.859 $\pm$ 9.938 χ^2 /NDF: 81.1/47

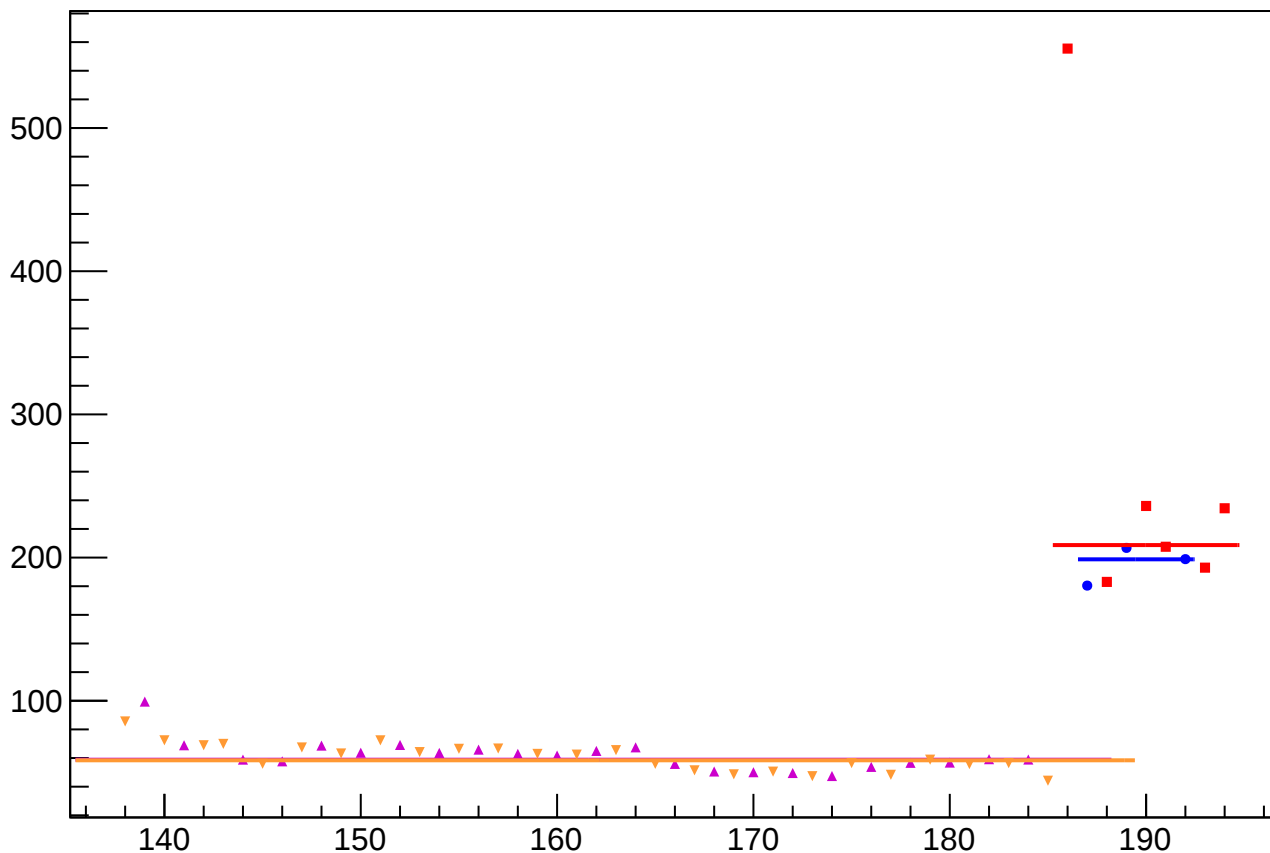
Right: -38.272 $\pm$ 94.800 χ^2 /NDF: 2.8/8

In: 71.048 $\pm$ 14.242 χ^2 /NDF:27.1/25

Out: 43.590 $\pm$ 13.728 χ^2 /NDF:56.0/30

All: 56.814 $\pm$ 9.884 χ^2 /NDF: 85.0/56

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 198.783 $\pm$ 0.116 χ^2/NDF : 4296.4/2

Left Out: 58.423 $\pm$ 0.010 χ^2/NDF : 790091.3/24

Right Out: 208.733 $\pm$ 0.082 χ^2/NDF : 366859.5/5

Left In: 58.840 $\pm$ 0.010 χ^2/NDF : 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2/NDF : 1470896.0/47

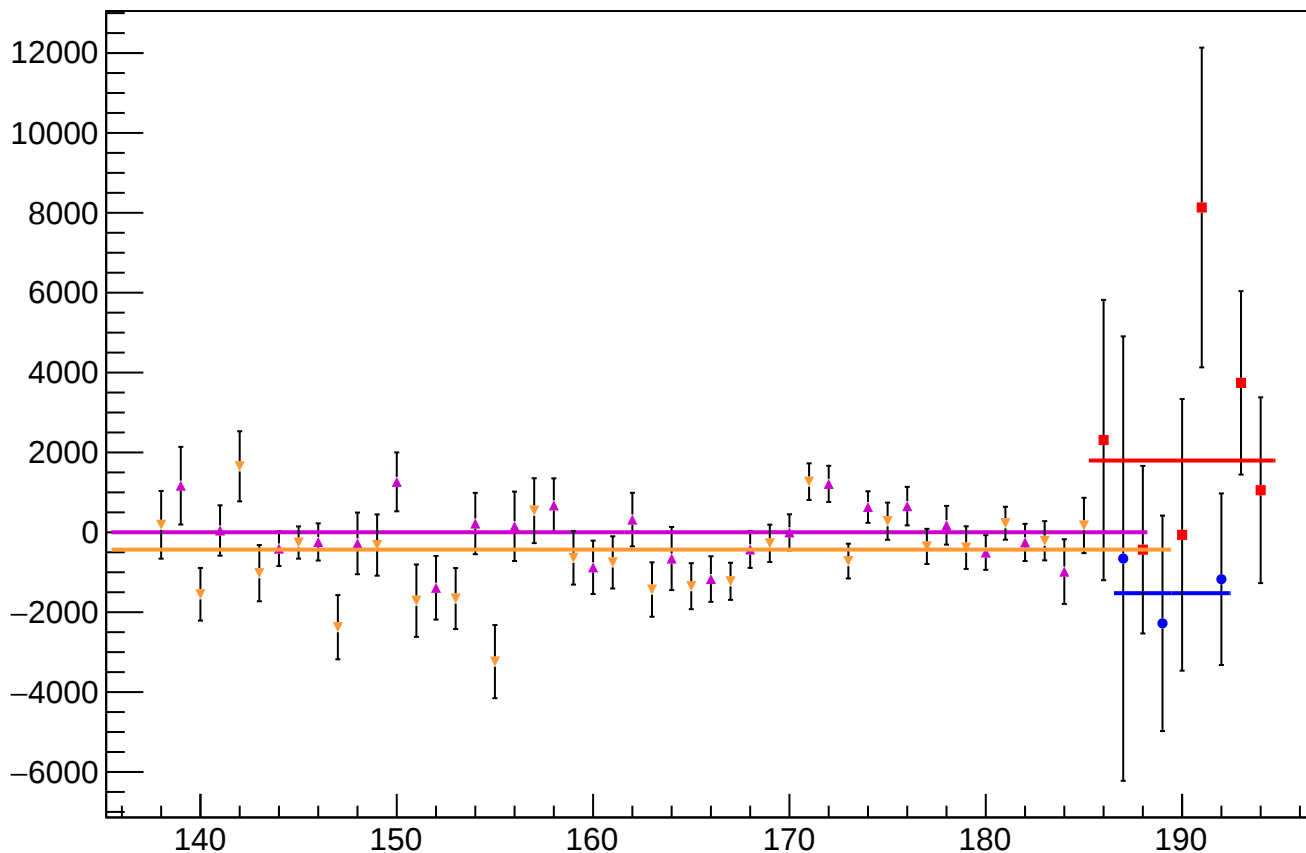
Right: 205.400 $\pm$ 0.067 χ^2/NDF : 376064.1/8

In: 59.898 $\pm$ 0.010 χ^2/NDF : 2132949.2/25

Out: 60.519 $\pm$ 0.010 χ^2/NDF : 4454171.5/30

All: 60.220 $\pm$ 0.007 χ^2/NDF : 6589093.5/56

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1523.645 $\pm$ 1608.815 χ^2 /NDF: 0.1/2

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 1797.969 $\pm$ 1096.437 χ^2 /NDF: 4.8/5

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

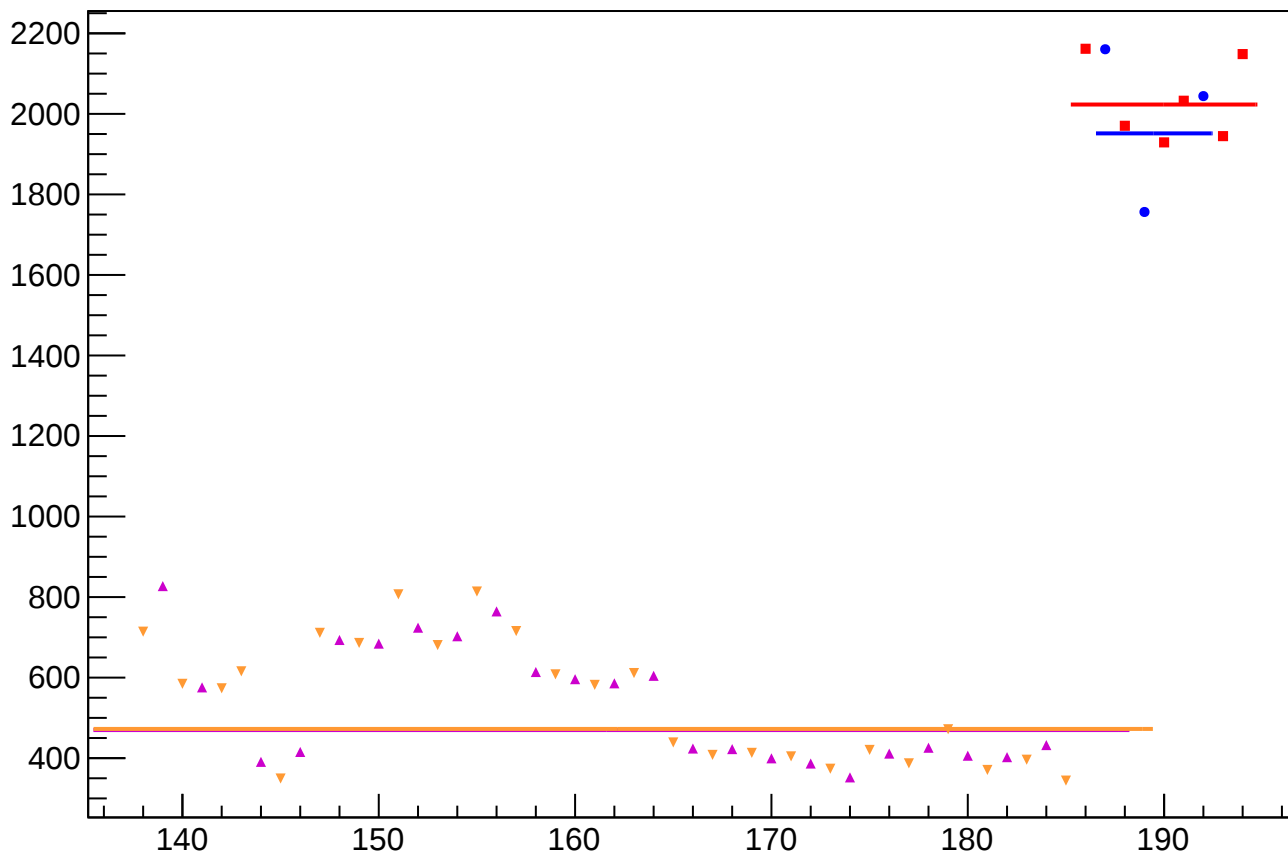
Right: 744.493 $\pm$ 906.033 χ^2 /NDF: 7.8/8

In: -6.127 $\pm$ 116.155 χ^2 /NDF:33.3/25

Out: -408.308 $\pm$ 113.790 χ^2 /NDF:68.3/30

All: -211.353 $\pm$ 81.285 χ^2 /NDF: 107.7/56

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1951.558 $\pm$ 1.138 χ^2 /NDF: 17000.8/2

Left Out: 472.569 $\pm$ 0.081 χ^2 /NDF: 2508168.9/24

Right Out: 2023.225 $\pm$ 0.775 χ^2 /NDF: 14058.3/5

Left In: 469.761 $\pm$ 0.082 χ^2 /NDF: 2116885.7/22

Left: 471.190 $\pm$ 0.058 χ^2 /NDF: 4625646.2/47

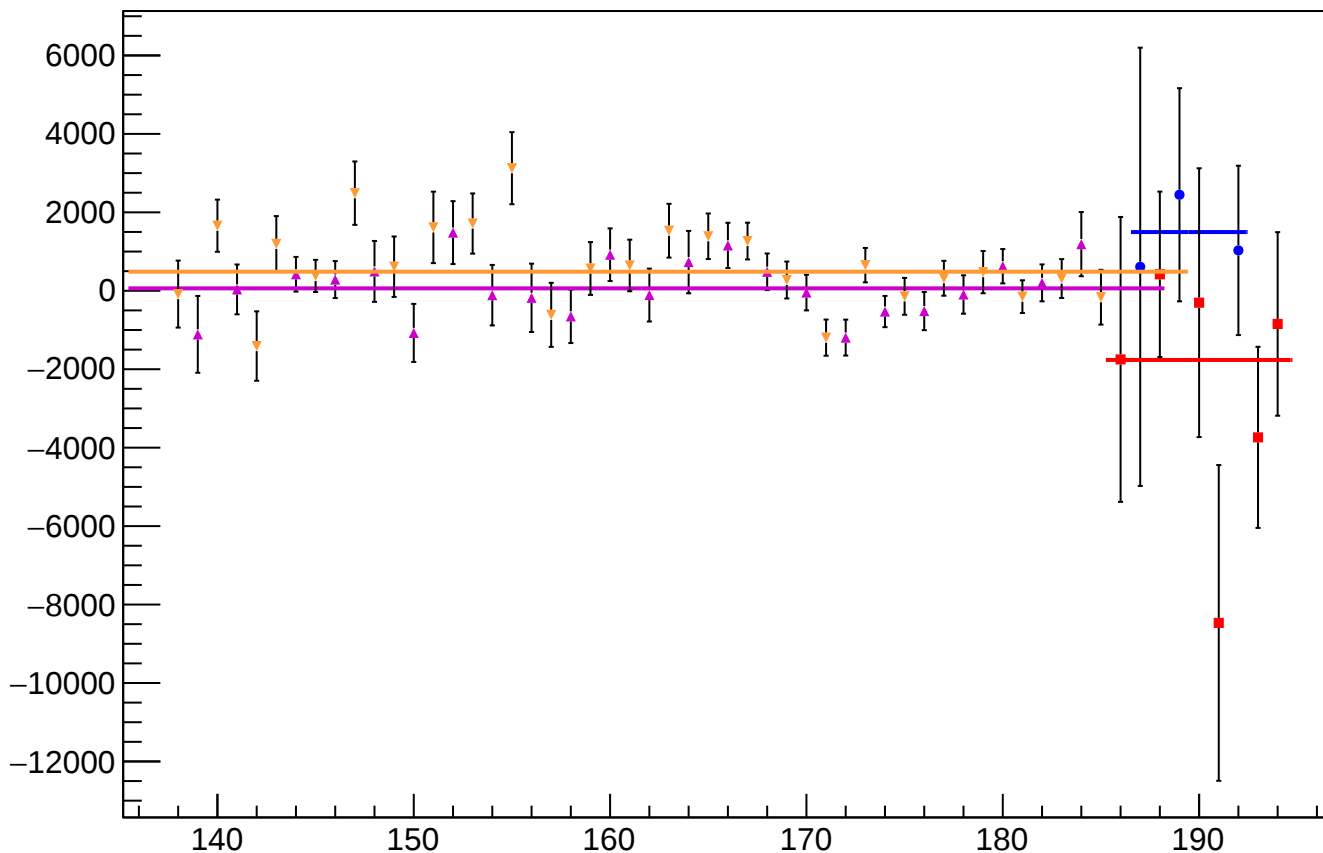
Right: 2000.495 $\pm$ 0.641 χ^2 /NDF: 33769.2/8

In: 477.485 $\pm$ 0.082 χ^2 /NDF: 3821701.9/25

Out: 489.270 $\pm$ 0.080 χ^2 /NDF: 6479450.3/30

All: 483.499 $\pm$ 0.057 χ^2 /NDF: 10311658.0/56

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1497.409 $\pm$ 1617.847 χ^2 /NDF: 0.2/2

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1763.253 $\pm$ 1105.703 χ^2 /NDF: 4.9/5

Left In: 61.775 $\pm$ 117.449 χ^2 /NDF:31.2/22

Left: 278.047 $\pm$ 82.295 χ^2 /NDF: 93.8/47

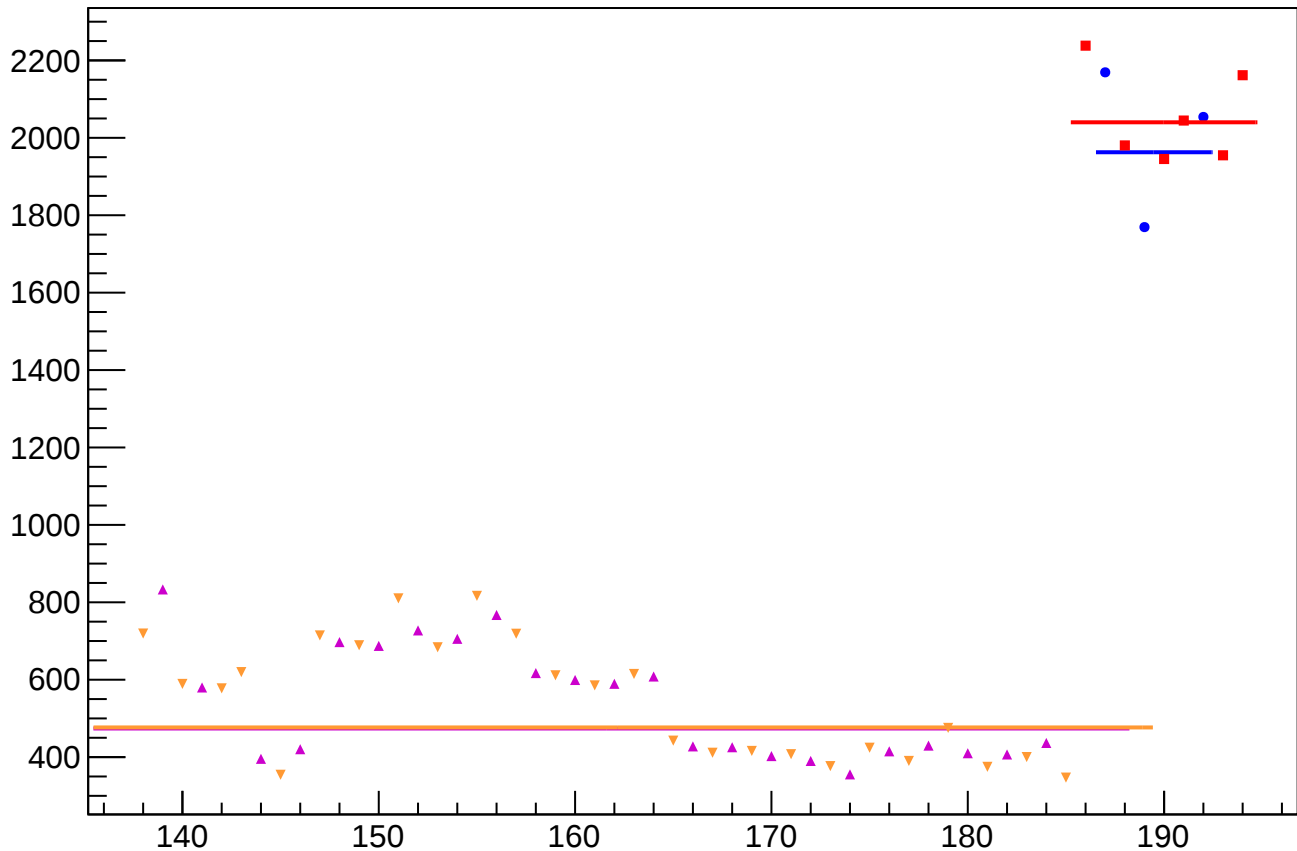
Right: -725.126 $\pm$ 912.872 χ^2 /NDF: 7.9/8

In: 69.301 $\pm$ 117.141 χ^2 /NDF:32.1/25

Out: 462.424 $\pm$ 114.724 χ^2 /NDF:65.0/30

All: 269.960 $\pm$ 81.963 χ^2 /NDF: 102.9/56

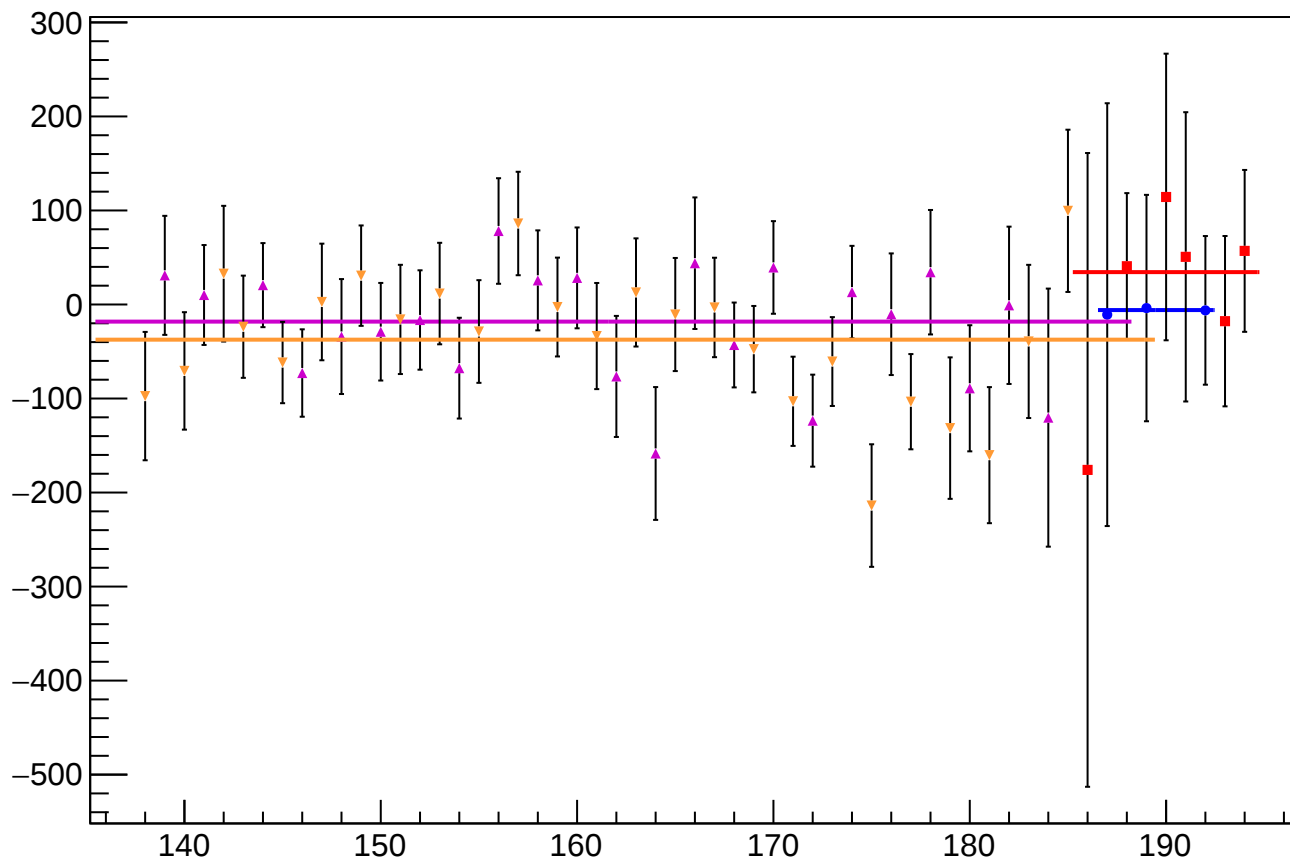
asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1962.739+/-1.144 χ^2/NDF : 16434.1/2
 Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24
 Right Out: 2040.102+/-0.782 χ^2/NDF : 17213.6/5
 Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47
 Right: 2015.471+/-0.645 χ^2/NDF : 36764.9/8
 In: 481.788+/-0.083 χ^2/NDF : 3788233.5/25
 Out: 493.521+/-0.081 χ^2/NDF : 6445433.4/30
 All: 487.777+/-0.058 χ^2/NDF : 10243907.5/56

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -5.934 ± 63.402 χ^2/NDF : 0.0/2

Left Out: -37.413 ± 11.390 χ^2/NDF : 30.5/24

Right Out: 34.427 ± 44.009 χ^2/NDF : 1.1/5

Left In: -18.210 ± 11.788 χ^2/NDF : 23.0/22

Left: -28.141 ± 8.191 χ^2/NDF : 54.8/47

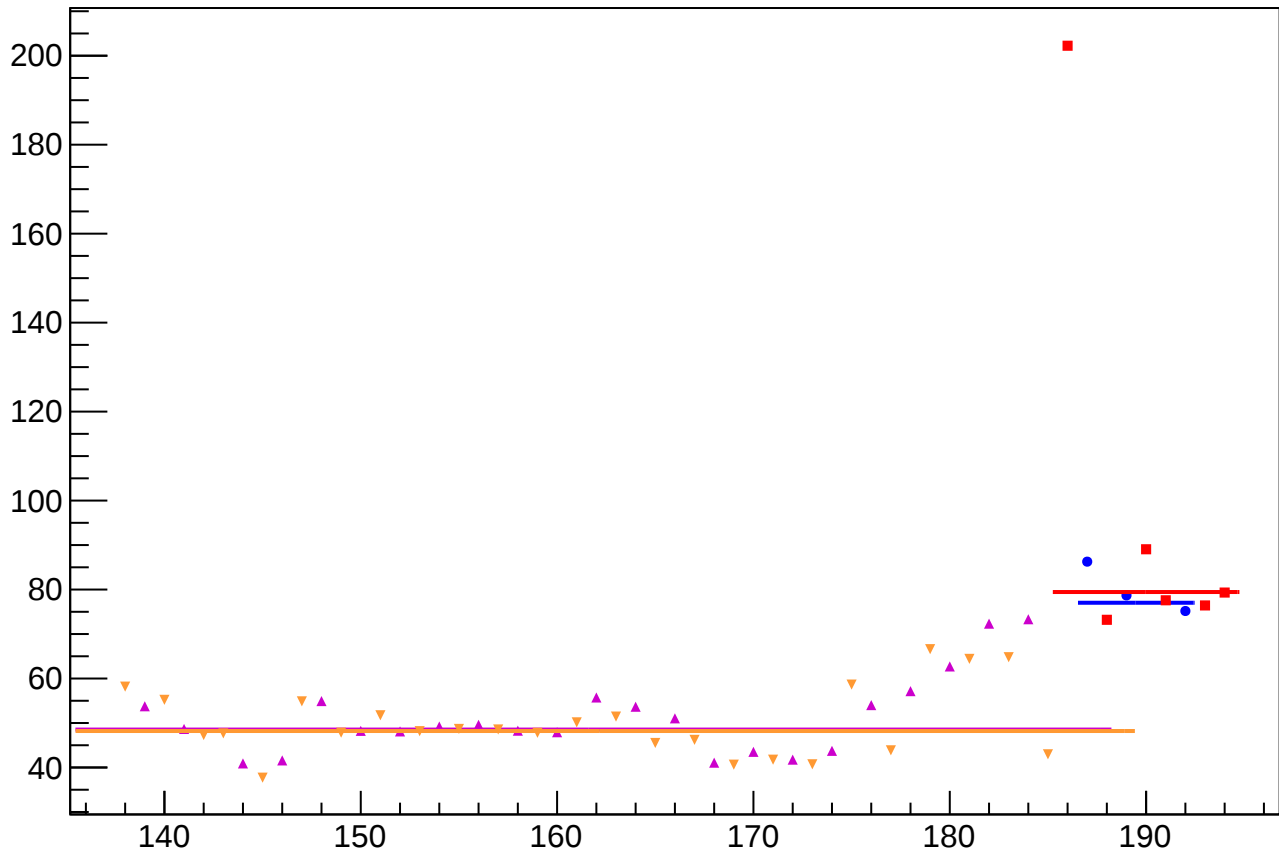
Right: 21.303 ± 36.153 χ^2/NDF : 1.4/8

In: -17.800 ± 11.589 χ^2/NDF : 23.0/25

Out: -32.903 ± 11.026 χ^2/NDF : 34.0/30

All: -25.727 ± 7.988 χ^2/NDF : 58.0/56

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 77.031 $\pm$ 0.045 χ^2 /NDF: 4850.8/2

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 79.444 $\pm$ 0.031 χ^2 /NDF: 288885.0/5

Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47

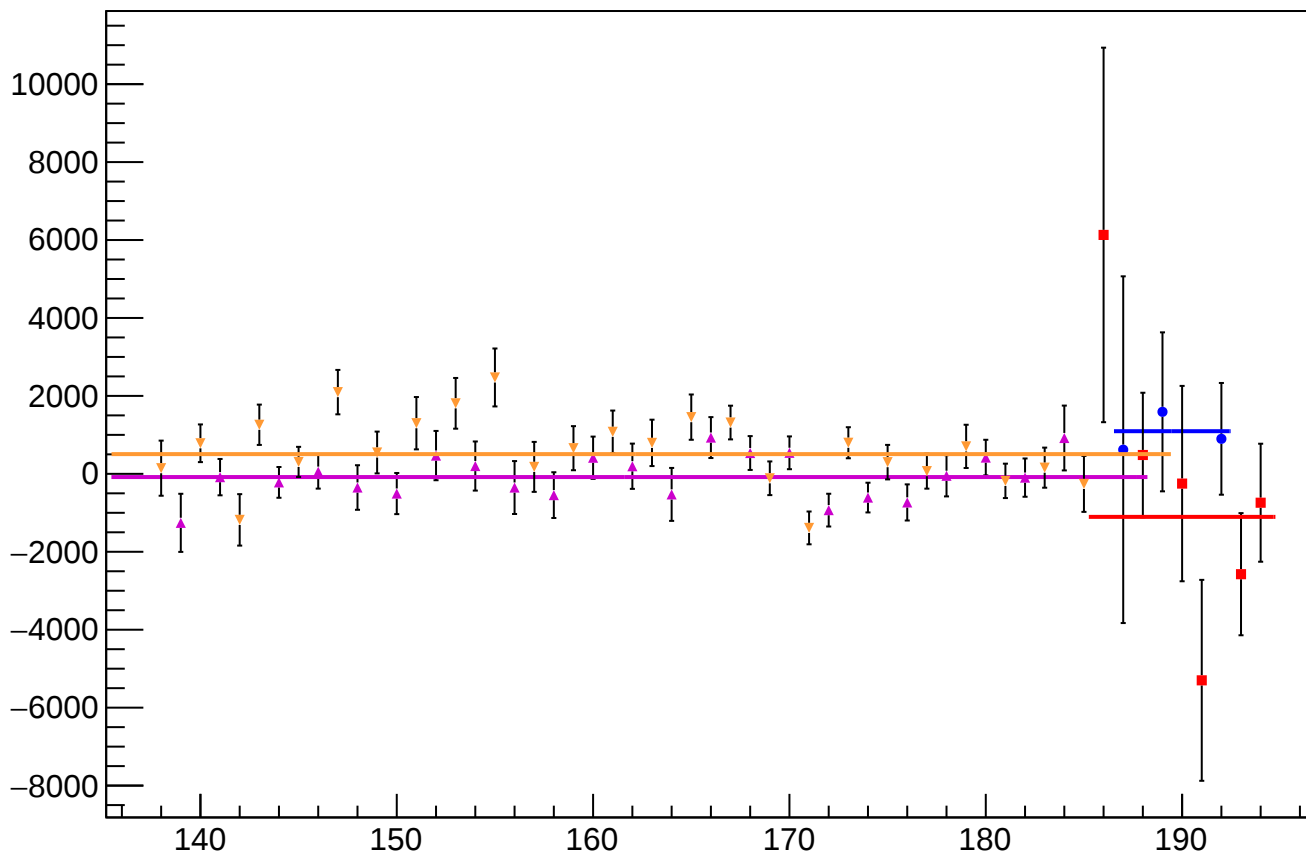
Right: 78.659 $\pm$ 0.026 χ^2 /NDF: 295690.1/8

In: 49.479 $\pm$ 0.008 χ^2 /NDF: 1070937.8/25

Out: 50.161 $\pm$ 0.008 χ^2 /NDF: 1983856.8/30

All: 49.837 $\pm$ 0.006 χ^2 /NDF: 3058428.6/56

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1094.195 $\pm$ 1134.244 χ^2 /NDF: 0.1/2

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: -1104.343 $\pm$ 793.514 χ^2 /NDF: 7.0/5

Left In: -82.421 $\pm$ 105.935 χ^2 /NDF:25.3/22

Left: 218.827 $\pm$ 74.020 χ^2 /NDF: 106.9/47

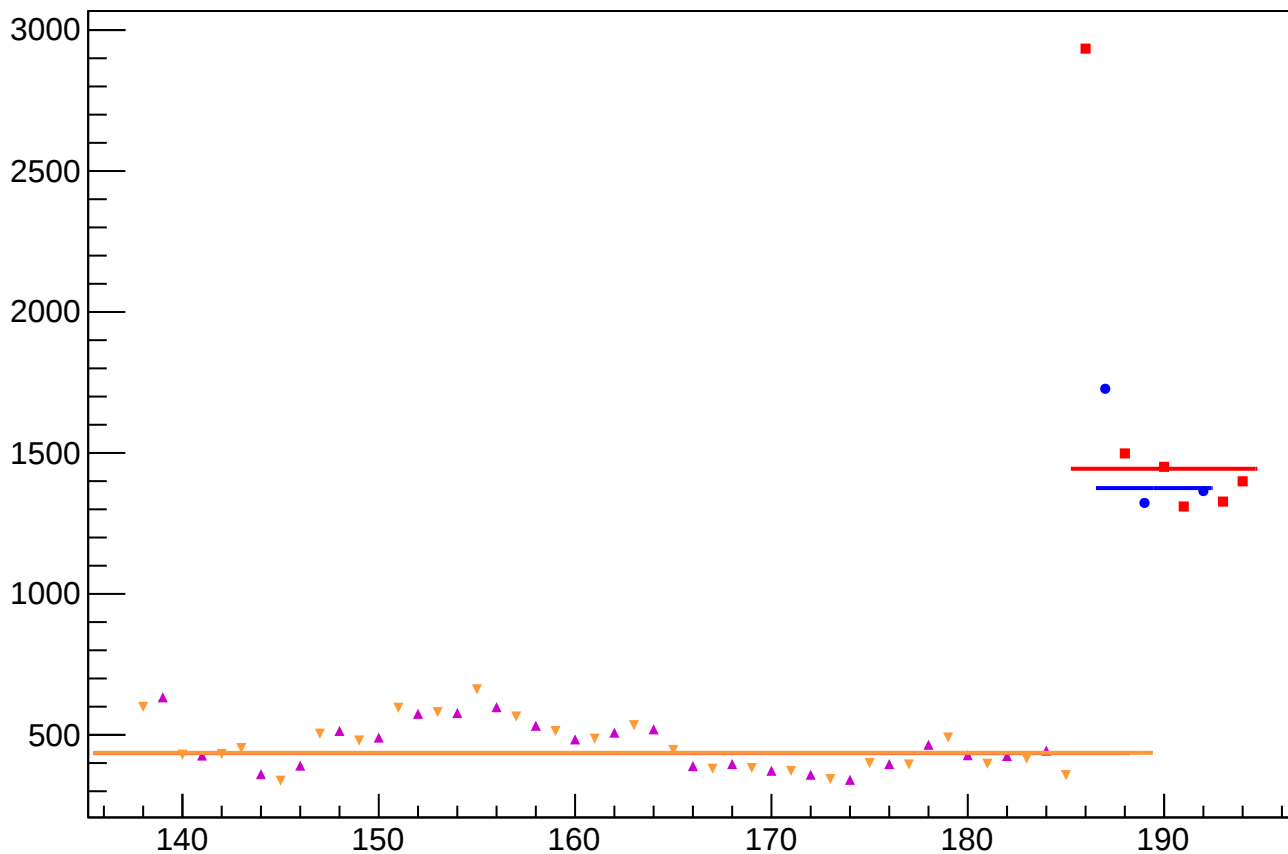
Right: -381.893 $\pm$ 650.195 χ^2 /NDF: 9.6/8

In: -72.246 $\pm$ 105.476 χ^2 /NDF:26.5/25

Out: 479.280 $\pm$ 102.599 χ^2 /NDF:76.7/30

All: 211.142 $\pm$ 73.545 χ^2 /NDF: 117.3/56

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1375.353+/-0.802 χ^2/NDF : 13979.8/2

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1443.920+/-0.561 χ^2/NDF : 212838.6/5

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

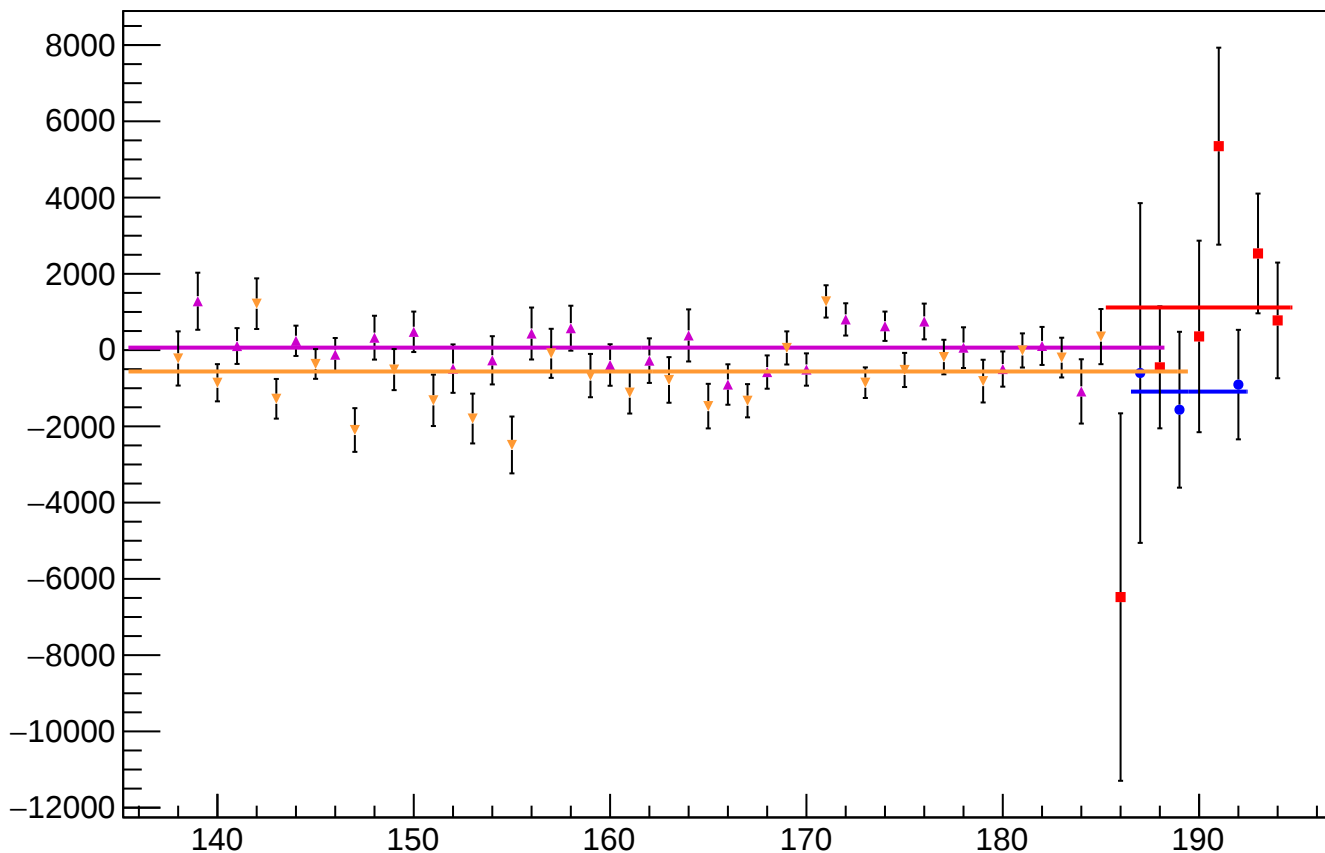
Right: 1421.389+/-0.460 χ^2/NDF : 231725.6/8

In: 443.404+/-0.075 χ^2/NDF : 2403677.4/25

Out: 453.147+/-0.073 χ^2/NDF : 4563156.1/30

All: 448.410+/-0.052 χ^2/NDF : 6975600.4/56

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1088.638 ± 1136.094 $\chi^2/\text{NDF}: 0.1/2$

Left Out: -560.684 ± 104.207 $\chi^2/\text{NDF}: 61.8/24$

Right Out: 1117.680 ± 794.851 $\chi^2/\text{NDF}: 7.1/5$

Left In: 64.594 ± 106.708 $\chi^2/\text{NDF}: 25.2/22$

Left: -255.457 ± 74.554 $\chi^2/\text{NDF}: 104.5/47$

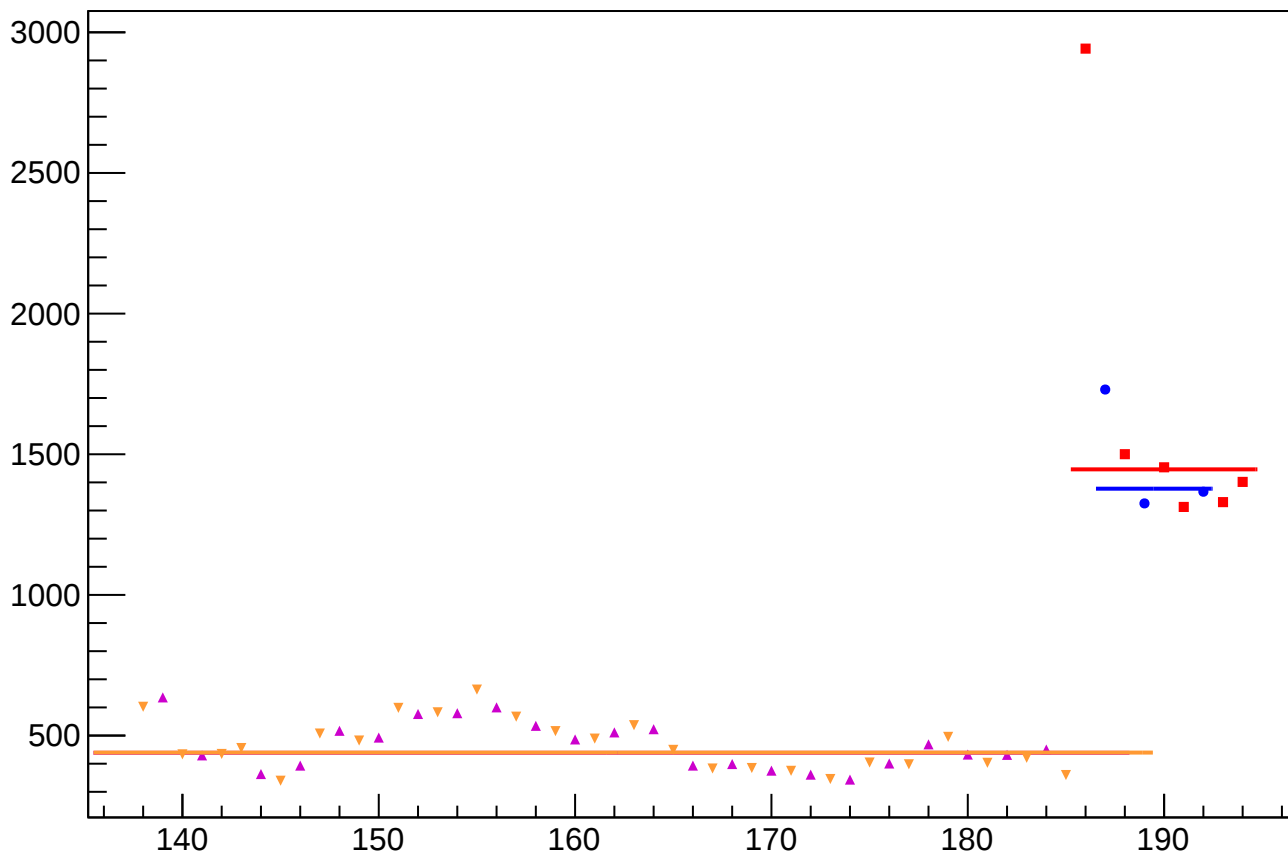
Right: 392.621 ± 651.279 $\chi^2/\text{NDF}: 9.7/8$

In: 54.510 ± 106.240 $\chi^2/\text{NDF}: 26.3/25$

Out: -532.324 ± 103.323 $\chi^2/\text{NDF}: 73.2/30$

All: -247.074 ± 74.070 $\chi^2/\text{NDF}: 115.2/56$

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1377.622+/-0.803 χ^2/NDF : 13943.5/2

Left Out: 439.527+/-0.074 χ^2/NDF : 1163352.8/24

Right Out: 1446.342+/-0.562 χ^2/NDF : 213067.9/5

Left In: 438.548+/-0.075 χ^2/NDF : 1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

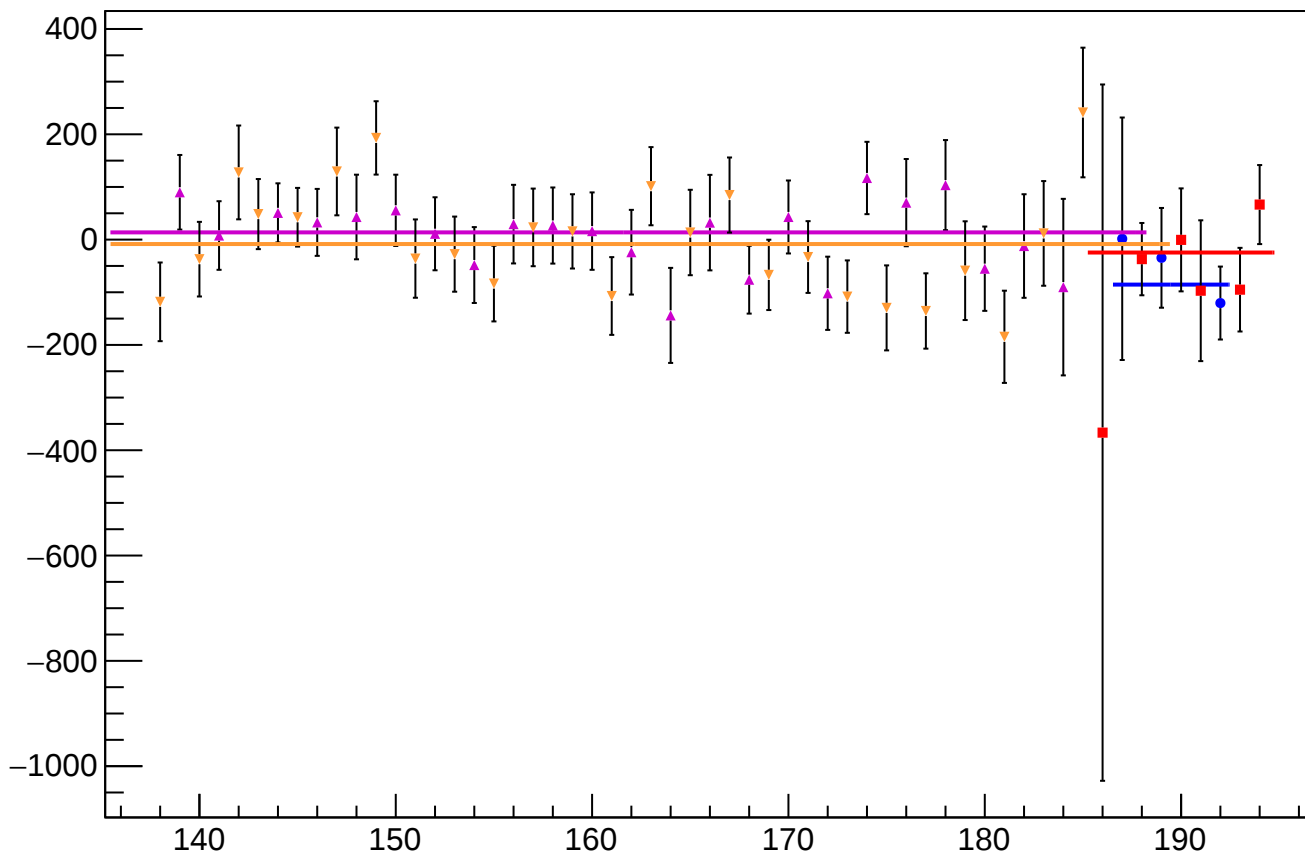
Right: 1423.758+/-0.461 χ^2/NDF : 231924.2/8

In: 446.760+/-0.075 χ^2/NDF : 2381539.3/25

Out: 456.540+/-0.073 χ^2/NDF : 4531110.1/30

All: 451.786+/-0.052 χ^2/NDF : 6921359.4/56

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -85.434 ± 54.332 χ^2/NDF : 0.7/2

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: -24.528 ± 37.503 χ^2/NDF : 2.9/5

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

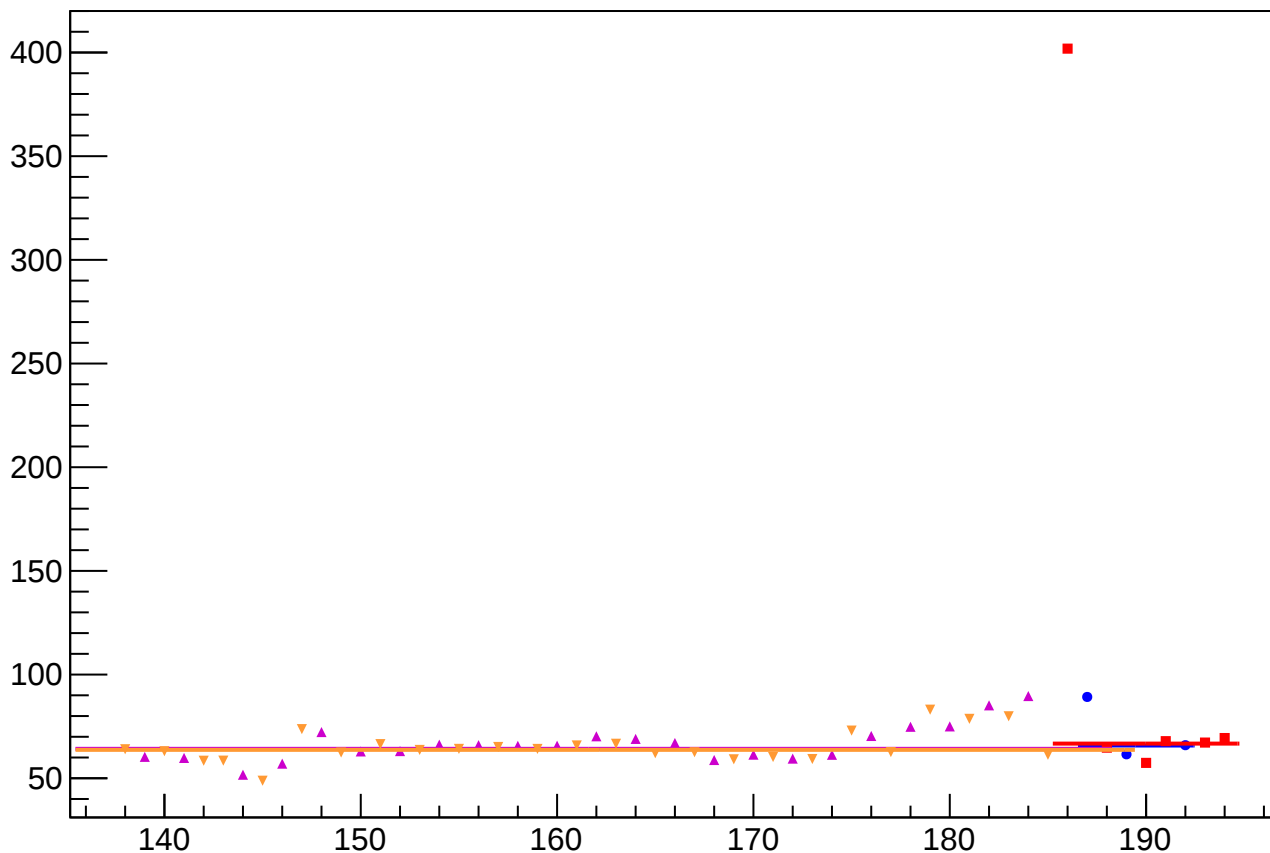
Right: -44.183 ± 30.864 χ^2/NDF : 4.5/8

In: 6.280 ± 14.886 χ^2/NDF : 20.0/25

Out: -10.621 ± 13.875 χ^2/NDF : 44.7/30

All: -2.764 ± 10.150 χ^2/NDF : 65.4/56

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 65.789+/-0.038 χ^2/NDF : 24723.9/2

Left Out: 63.696+/-0.011 χ^2/NDF : 448439.3/24

Right Out: 66.710+/-0.027 χ^2/NDF : 536363.7/5

Left In: 64.189+/-0.011 χ^2/NDF : 429670.3/22

Left: 63.934+/-0.008 χ^2/NDF : 879161.0/47

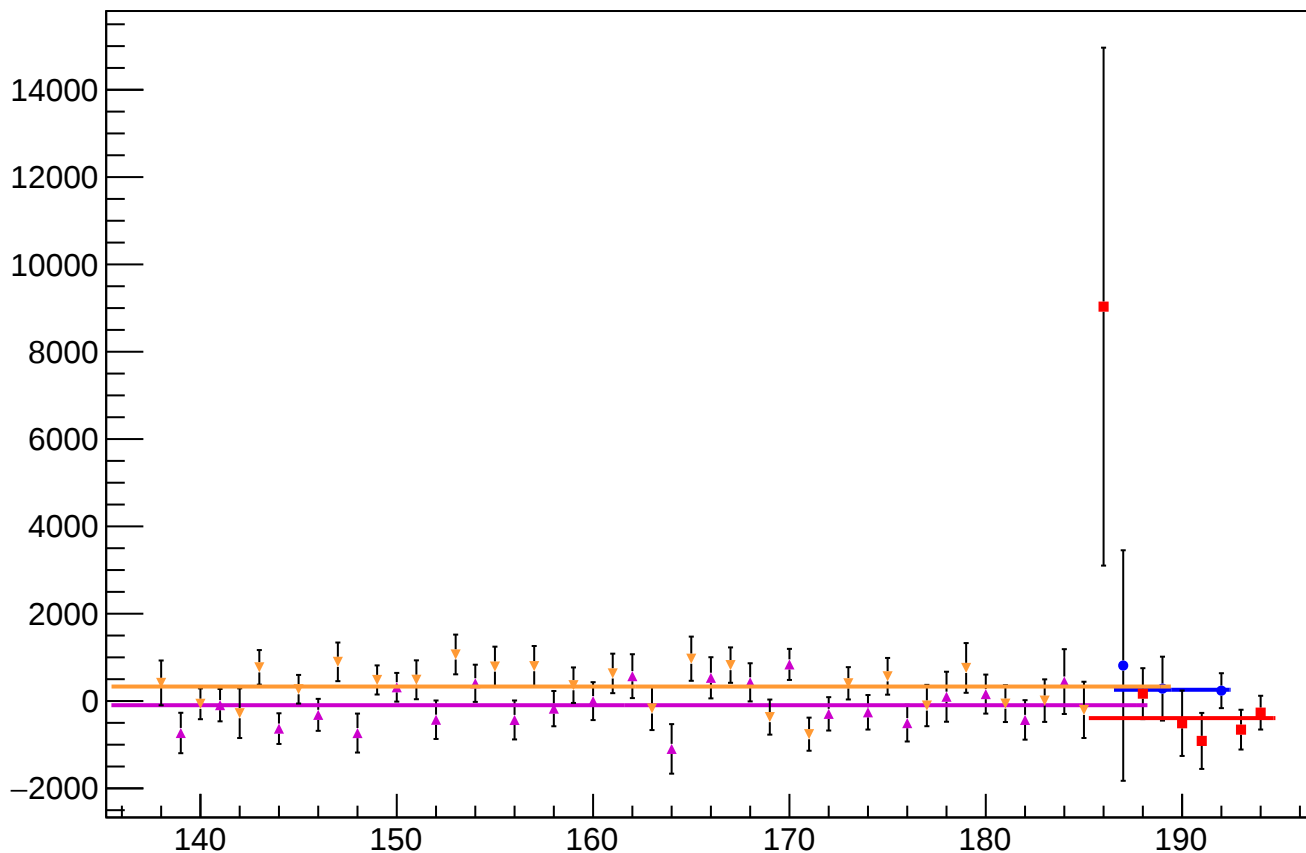
Right: 66.413+/-0.022 χ^2/NDF : 561476.4/8

In: 64.309+/-0.011 χ^2/NDF : 455999.1/25

Out: 64.109+/-0.010 χ^2/NDF : 995951.8/30

All: 64.202+/-0.007 χ^2/NDF : 1452145.5/56

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 257.655 $\pm$ 347.848 χ^2 /NDF: 0.0/2

Left Out: 331.739 $\pm$ 86.071 χ^2 /NDF:29.9/24

Right Out: -391.446 $\pm$ 231.318 χ^2 /NDF: 4.6/5

Left In: -95.910 $\pm$ 88.656 χ^2 /NDF:28.7/22

Left: 124.240 $\pm$ 61.755 χ^2 /NDF: 70.5/47

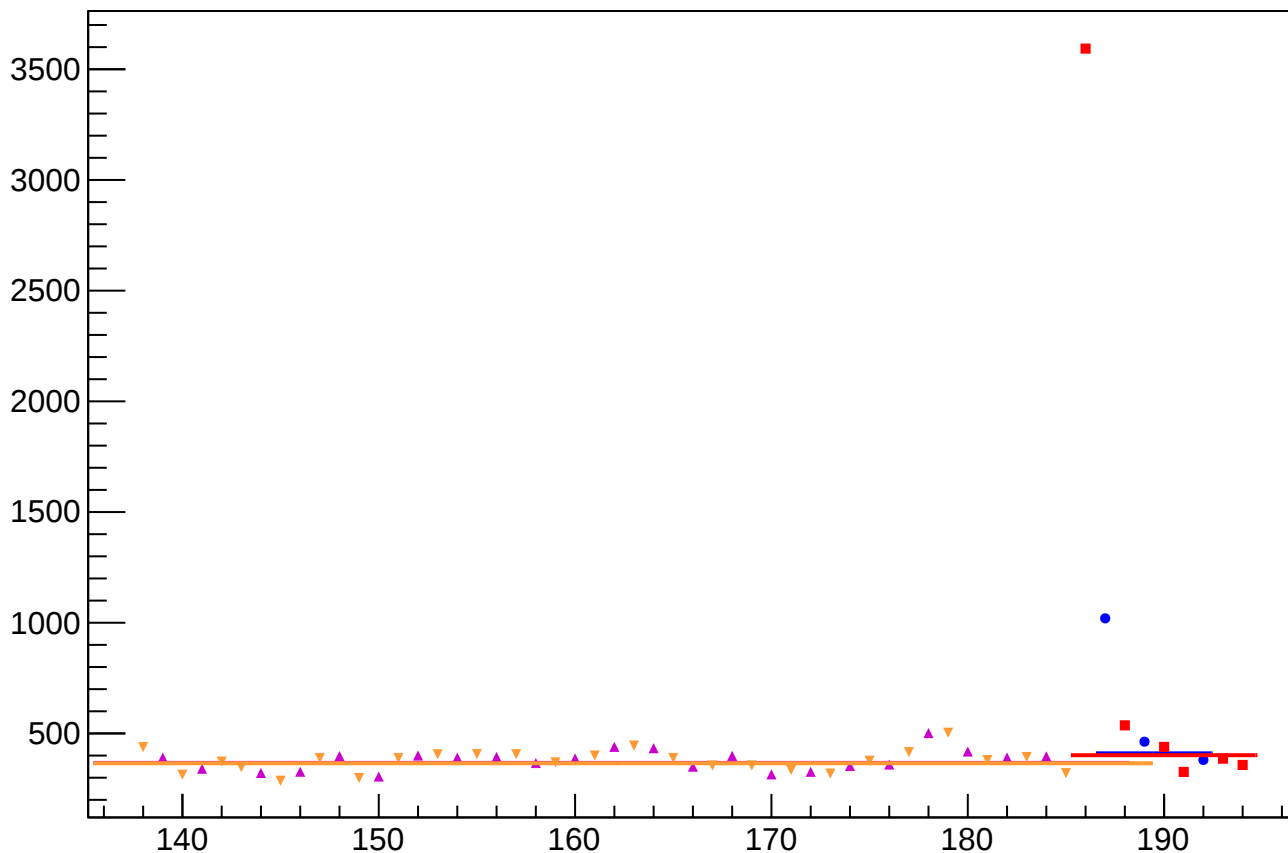
Right: -192.415 $\pm$ 192.617 χ^2 /NDF: 7.0/8

In: -74.344 $\pm$ 85.910 χ^2 /NDF:29.7/25

Out: 243.790 $\pm$ 80.668 χ^2 /NDF:43.0/30

All: 94.725 $\pm$ 58.807 χ^2 /NDF: 80.0/56

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 410.039 $\pm$ 0.246 χ^2 /NDF: 128149.8/2

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 401.675 $\pm$ 0.164 χ^2 /NDF: 747162.0/5

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

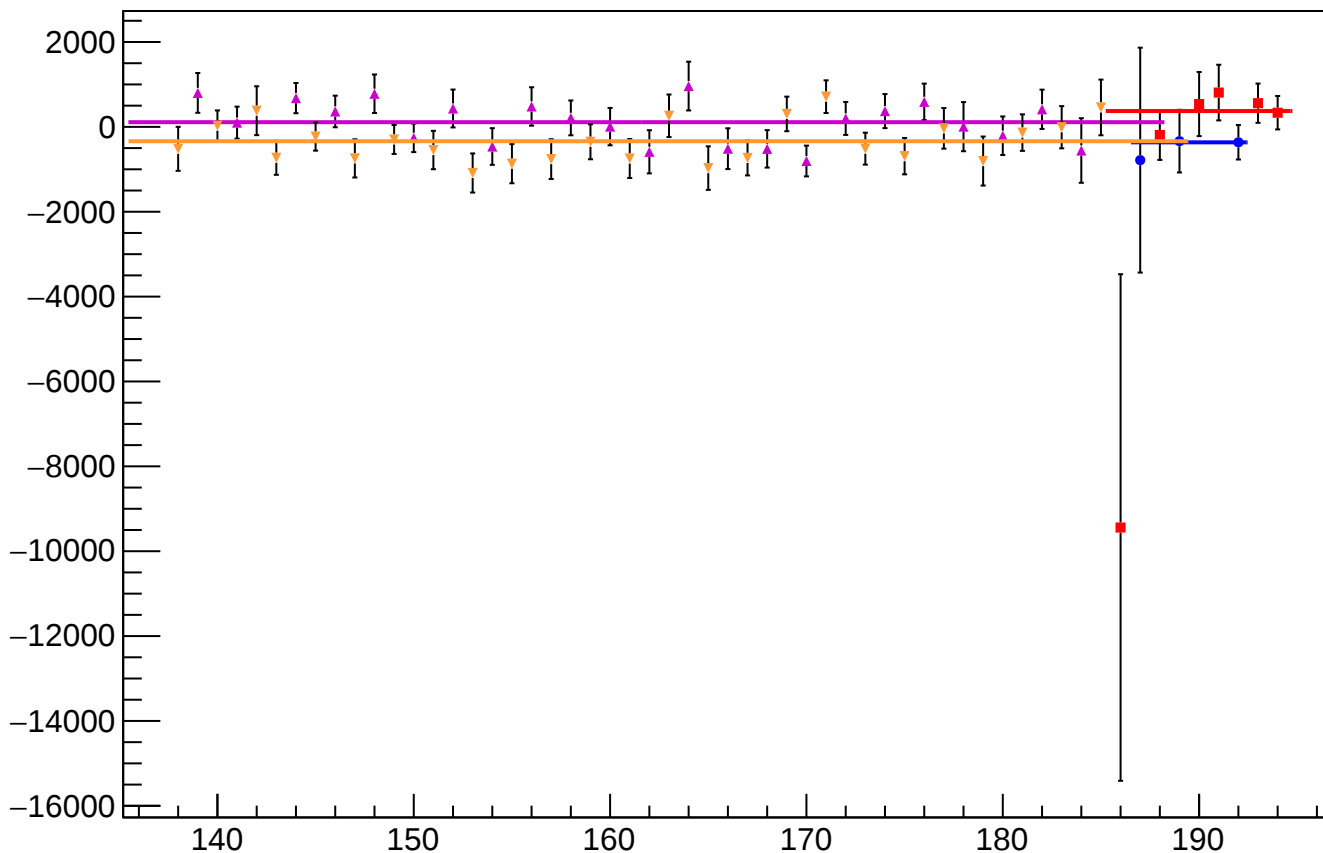
Right: 404.240 $\pm$ 0.136 χ^2 /NDF: 876113.5/8

In: 369.554 $\pm$ 0.061 χ^2 /NDF: 635083.0/25

Out: 369.772 $\pm$ 0.057 χ^2 /NDF: 1408926.2/30

All: 369.670 $\pm$ 0.042 χ^2 /NDF: 2044016.0/56

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -364.576+/-352.576 χ^2/NDF : 0.0/2

Left Out: -338.528+/-87.450 χ^2/NDF :28.2/24

Right Out: 373.383+/-234.939 χ^2/NDF : 4.3/5

Left In: 110.341+/-90.084 χ^2/NDF :29.2/22

Left: -120.751+/-62.747 χ^2/NDF : 70.2/47

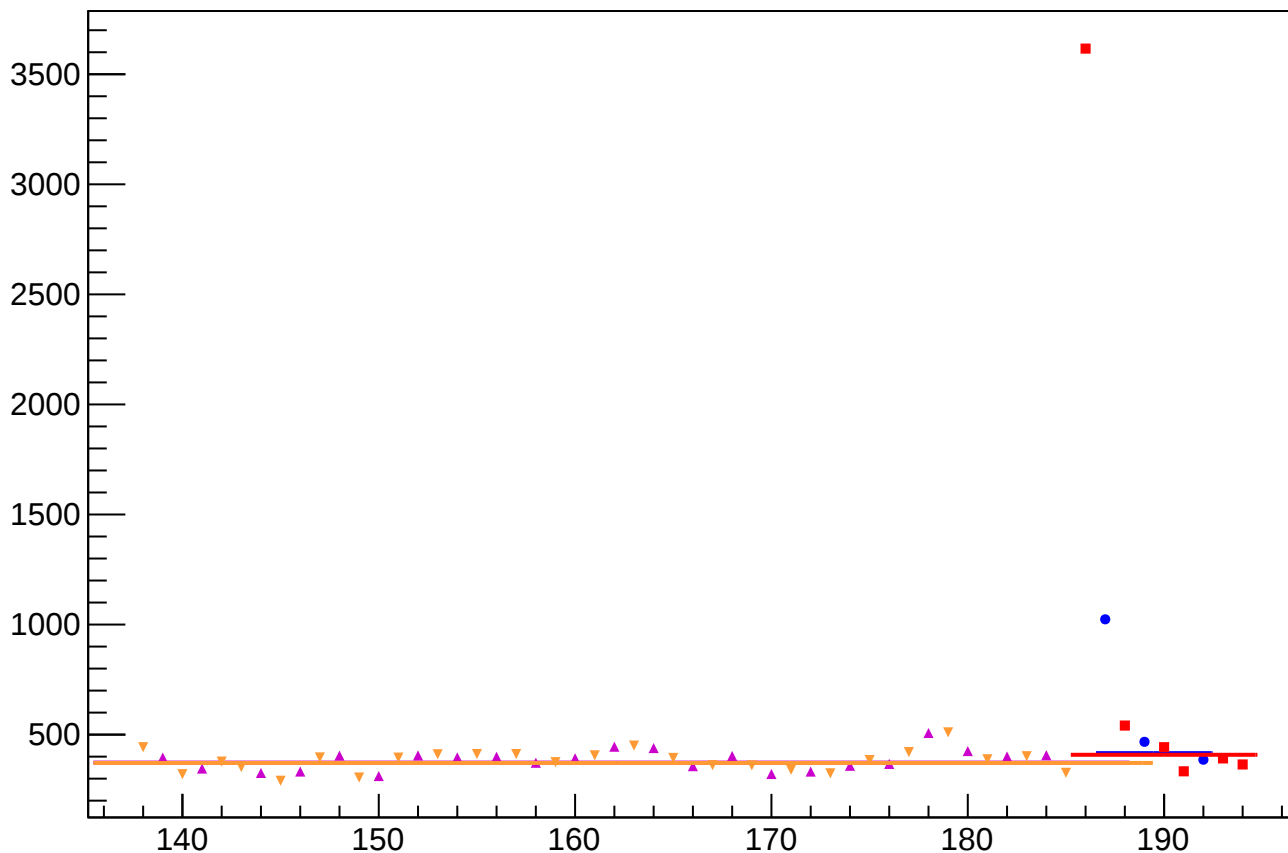
Right: 146.468+/-195.510 χ^2/NDF : 7.3/8

In: 81.237+/-87.280 χ^2/NDF :31.0/25

Out: -251.895+/-81.957 χ^2/NDF :40.6/30

All: -95.797+/-59.745 χ^2/NDF : 79.3/56

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 415.878 $\pm$ 0.249 χ^2/NDF : 125694.7/2

Left Out: 371.356 $\pm$ 0.062 χ^2/NDF : 604070.6/24

Right Out: 408.371 $\pm$ 0.166 χ^2/NDF : 737666.6/5

Left In: 372.938 $\pm$ 0.064 χ^2/NDF : 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2/NDF : 1071729.1/47

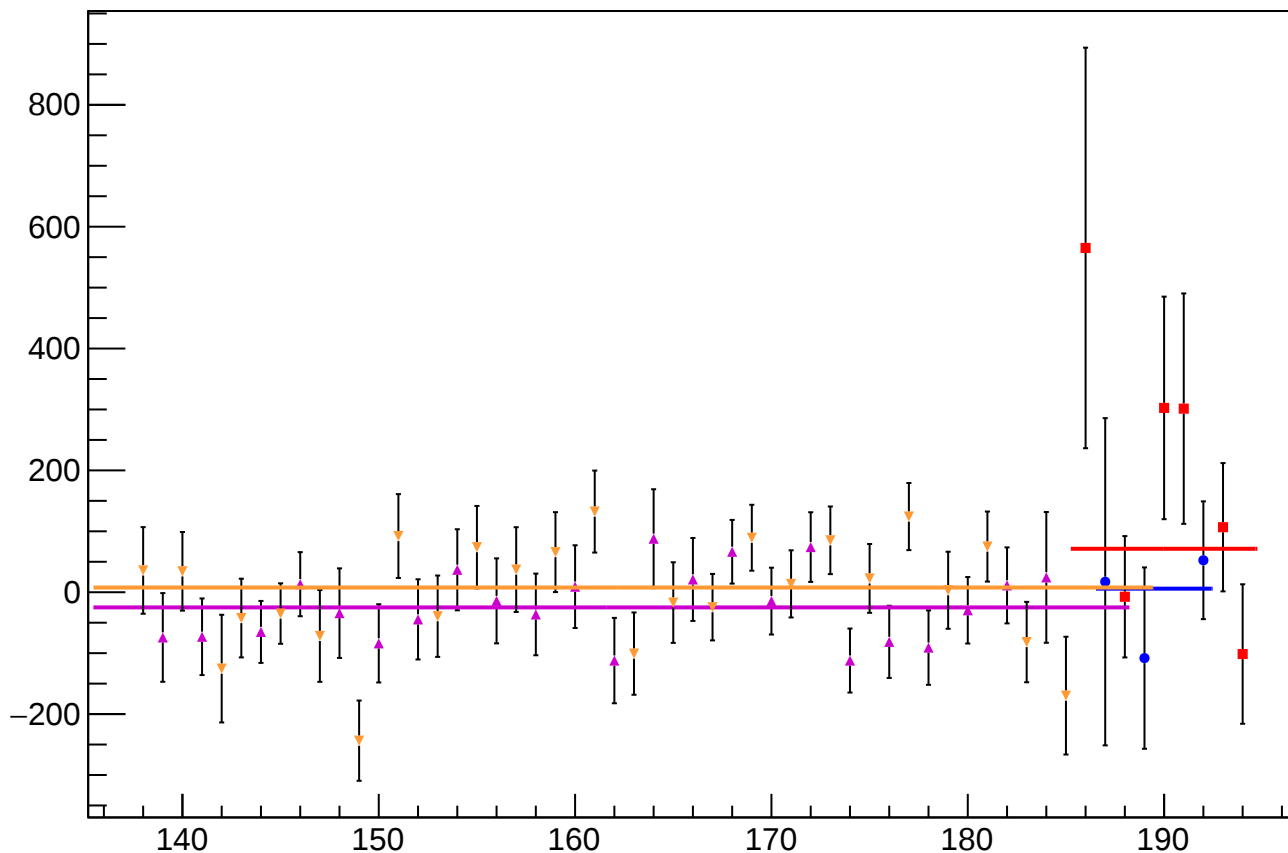
Right: 410.680 $\pm$ 0.138 χ^2/NDF : 863989.1/8

In: 375.569 $\pm$ 0.062 χ^2/NDF : 620883.6/25

Out: 375.860 $\pm$ 0.058 χ^2/NDF : 1385341.9/30

All: 375.724 $\pm$ 0.042 χ^2/NDF : 2006237.3/56

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 5.879 ± 77.611 $\chi^2/\text{NDF}: 0.8/2$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 71.333 ± 54.673 $\chi^2/\text{NDF}: 8.4/5$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

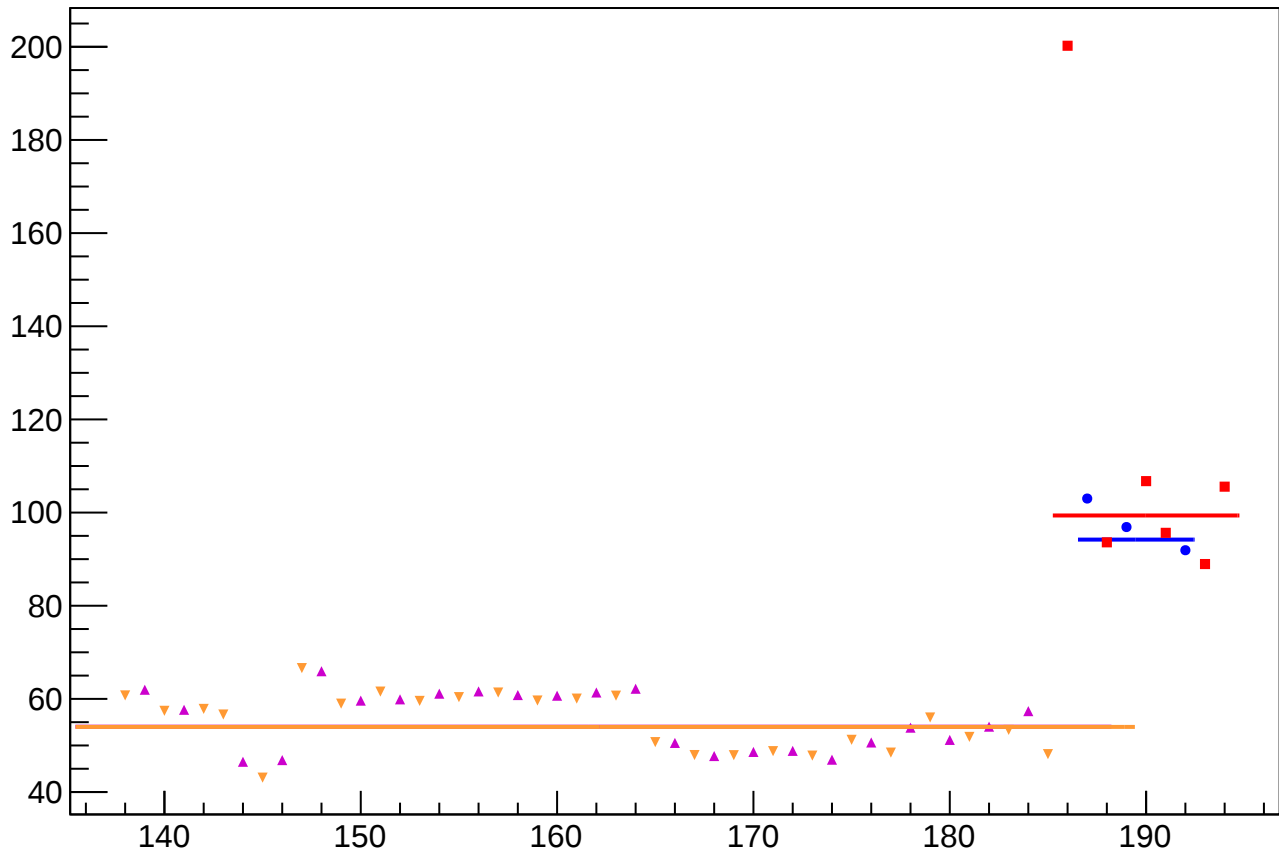
Right: 49.625 ± 44.696 $\chi^2/\text{NDF}: 9.6/8$

In: -24.044 ± 12.849 $\chi^2/\text{NDF}: 20.7/25$

Out: 10.958 ± 12.330 $\chi^2/\text{NDF}: 55.1/30$

All: -5.821 ± 8.896 $\chi^2/\text{NDF}: 79.6/56$

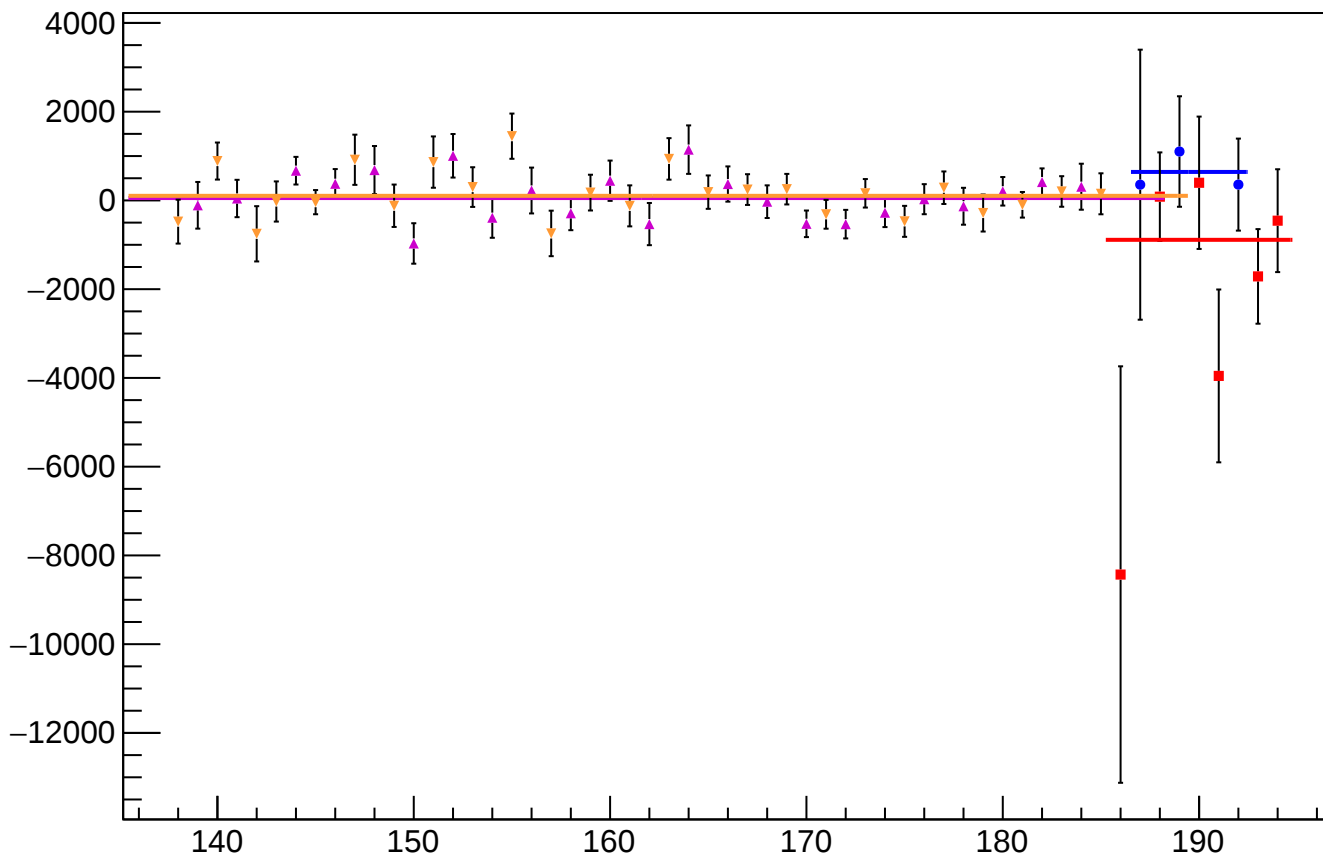
reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 94.198 $\pm$ 0.055 χ^2 /NDF: 3922.3/2
 Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF:458972.1/24
 Right Out: 99.378 $\pm$ 0.039 χ^2 /NDF: 224408.2/5
 Left In: 54.028 $\pm$ 0.009 χ^2 /NDF:443819.5/22

Left: 54.005 $\pm$ 0.006 χ^2 /NDF: 902803.3/47
 Right: 97.660 $\pm$ 0.032 χ^2 /NDF: 234283.8/8
 In: 55.129 $\pm$ 0.009 χ^2 /NDF:968851.8/25
 Out: 56.292 $\pm$ 0.009 χ^2 /NDF:1991990.1/30
 All: 55.735 $\pm$ 0.006 χ^2 /NDF: 2969381.1/56

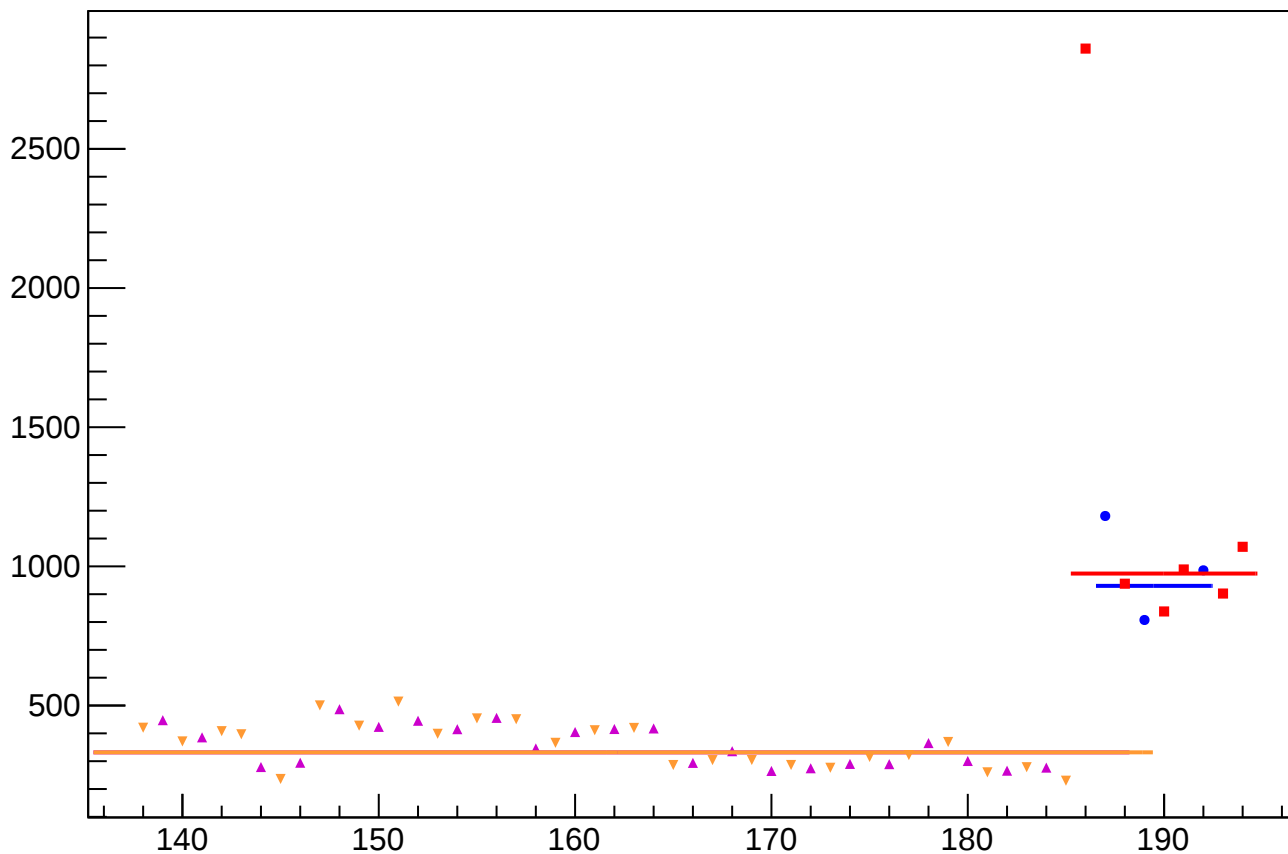
asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 642.125+/-770.747 χ^2/NDF : 0.2/2
 Left Out: 103.768+/-79.344 χ^2/NDF :31.0/24
 Right Out: -887.844+/-543.274 χ^2/NDF : 7.5/5
 Left In: 53.493+/-81.201 χ^2/NDF :34.1/22

Left: 79.212+/-56.750 χ^2/NDF : 65.3/47
 Right: -380.009+/-444.050 χ^2/NDF : 10.3/8
 In: 59.955+/-80.754 χ^2/NDF :34.9/25
 Out: 83.058+/-78.511 χ^2/NDF :41.7/30
 All: 71.832+/-56.292 χ^2/NDF : 76.7/56

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 929.945 $\pm$ 0.545 χ^2 /NDF: 38807.3/2

Left Out: 331.770 $\pm$ 0.056 χ^2 /NDF: 1711721.9/24

Right Out: 974.171 $\pm$ 0.384 χ^2 /NDF: 365417.5/5

Left In: 331.666 $\pm$ 0.057 χ^2 /NDF: 1303192.2/22

Left: 331.719 $\pm$ 0.040 χ^2 /NDF: 3014915.7/47

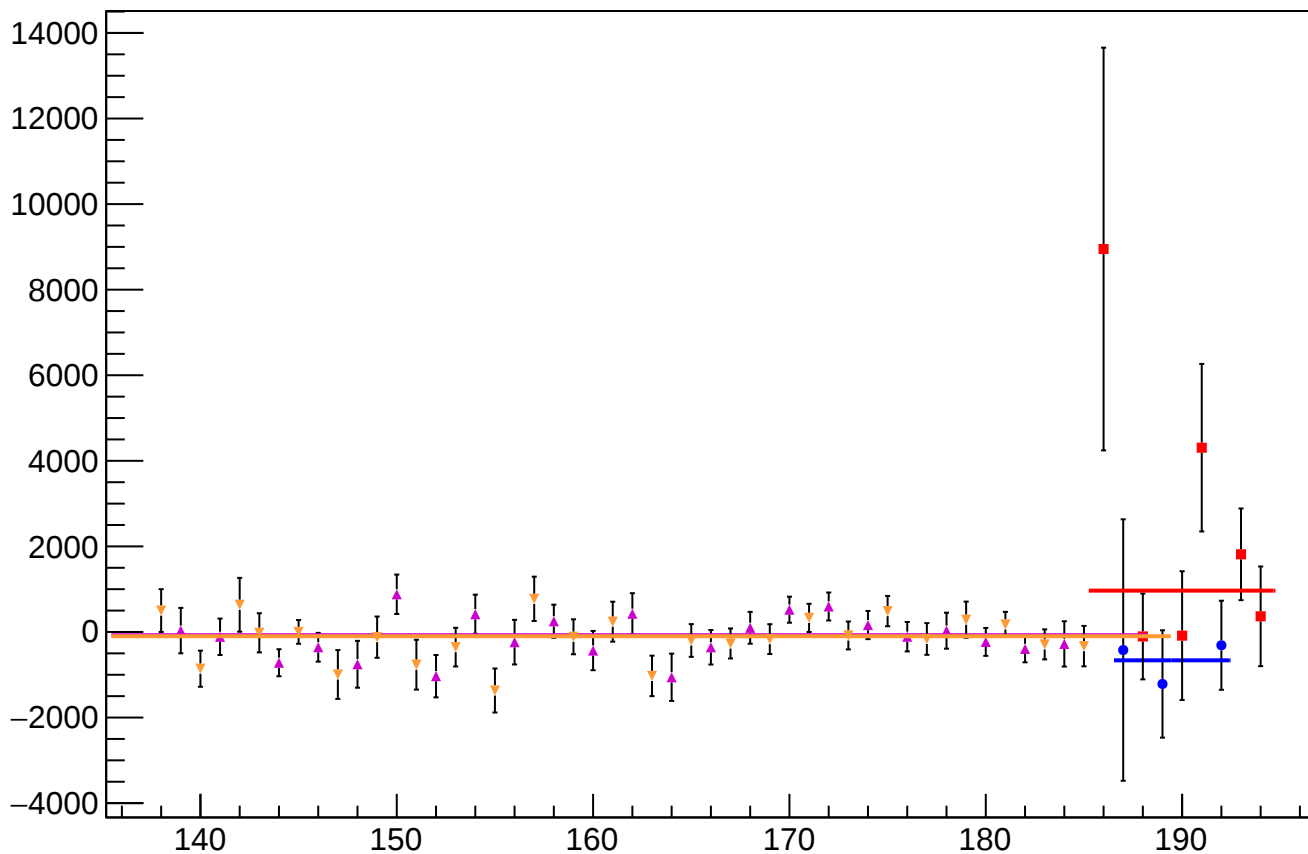
Right: 959.492 $\pm$ 0.314 χ^2 /NDF: 408624.1/8

In: 338.233 $\pm$ 0.057 χ^2 /NDF: 2533848.2/25

Out: 345.187 $\pm$ 0.056 χ^2 /NDF: 4815167.0/30

All: 341.808 $\pm$ 0.040 χ^2 /NDF: 7356637.8/56

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -662.958+/-775.044 χ^2/NDF : 0.3/2

Left Out: -99.785+/-80.428 χ^2/NDF :30.7/24

Right Out: 966.373+/-546.338 χ^2/NDF : 8.3/5

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

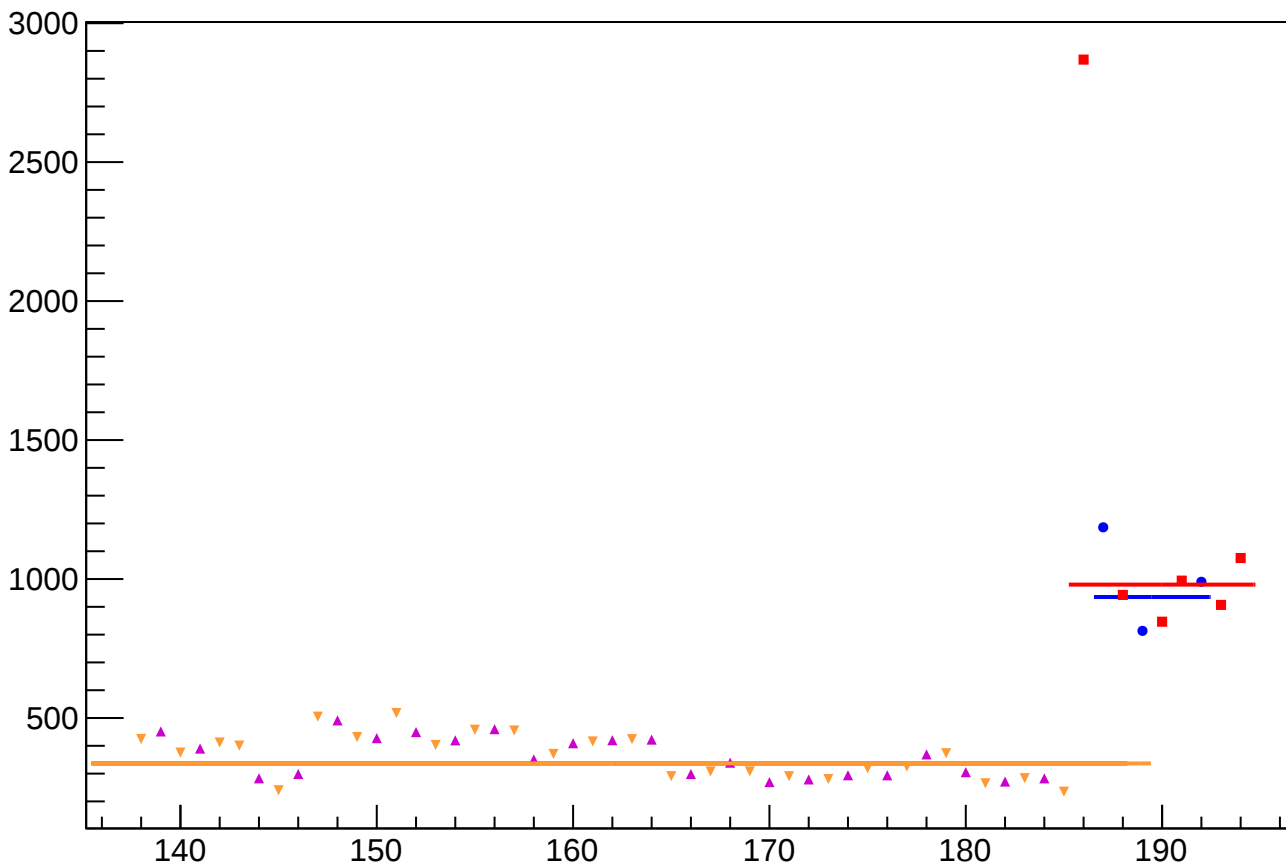
Right: 425.511+/-446.545 χ^2/NDF : 11.6/8

In: -82.131+/-81.858 χ^2/NDF :33.0/25

Out: -77.170+/-79.570 χ^2/NDF :42.7/30

All: -79.580+/-57.056 χ^2/NDF : 75.7/56

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 935.316 $\pm$ 0.548 χ^2 /NDF: 37851.4/2

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF:1665919.4/24

Right Out: 979.968 $\pm$ 0.386 χ^2 /NDF: 363512.3/5

Left In: 336.439 $\pm$ 0.058 χ^2 /NDF:1269066.3/22

Left: 336.500 $\pm$ 0.041 χ^2 /NDF: 2934987.9/47

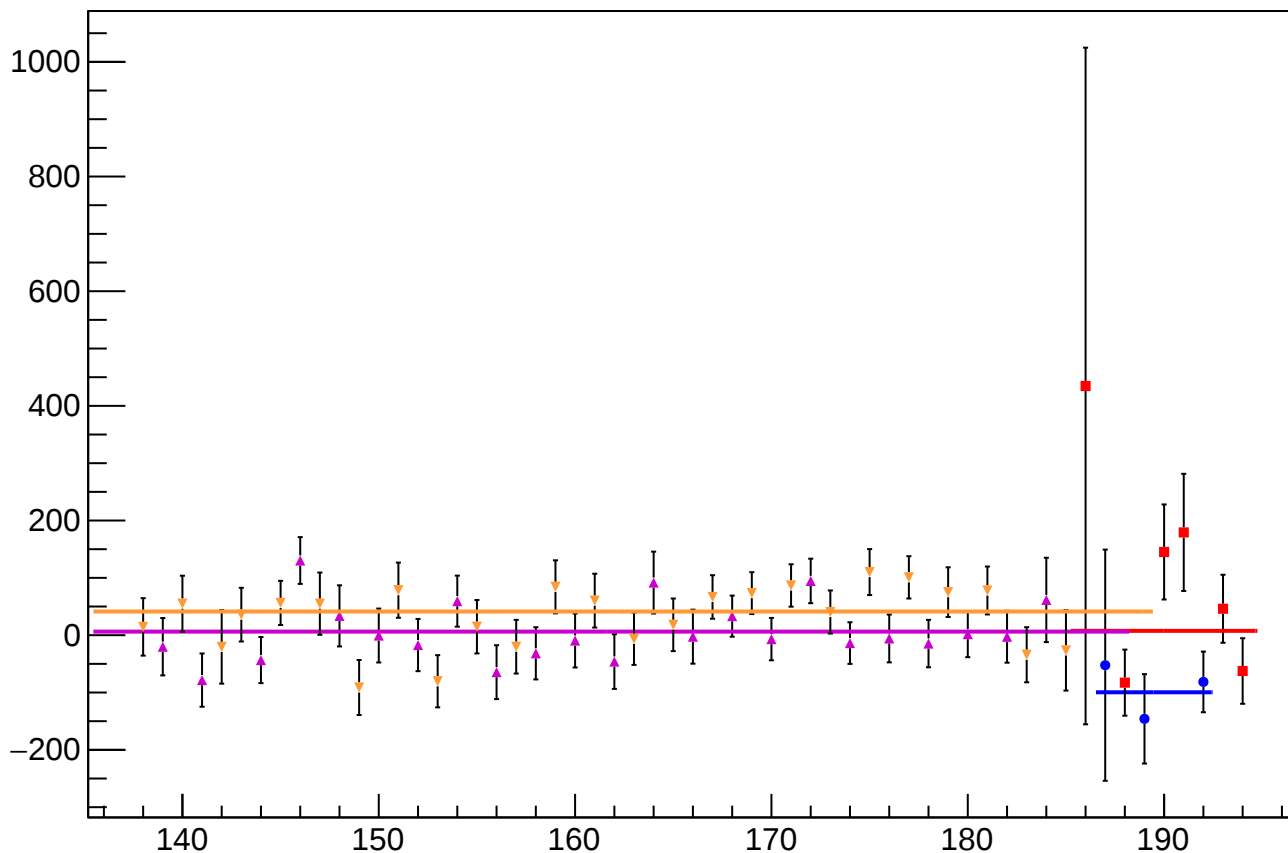
Right: 965.145 $\pm$ 0.316 χ^2 /NDF: 405798.4/8

In: 343.120 $\pm$ 0.058 χ^2 /NDF:2487725.5/25

Out: 350.205 $\pm$ 0.056 χ^2 /NDF:4744442.1/30

All: 346.763 $\pm$ 0.040 χ^2 /NDF: 7239872.2/56

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -99.596 ± 42.786 χ^2/NDF : 0.5/2

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: 7.575 ± 29.673 χ^2/NDF : 10.5/5

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

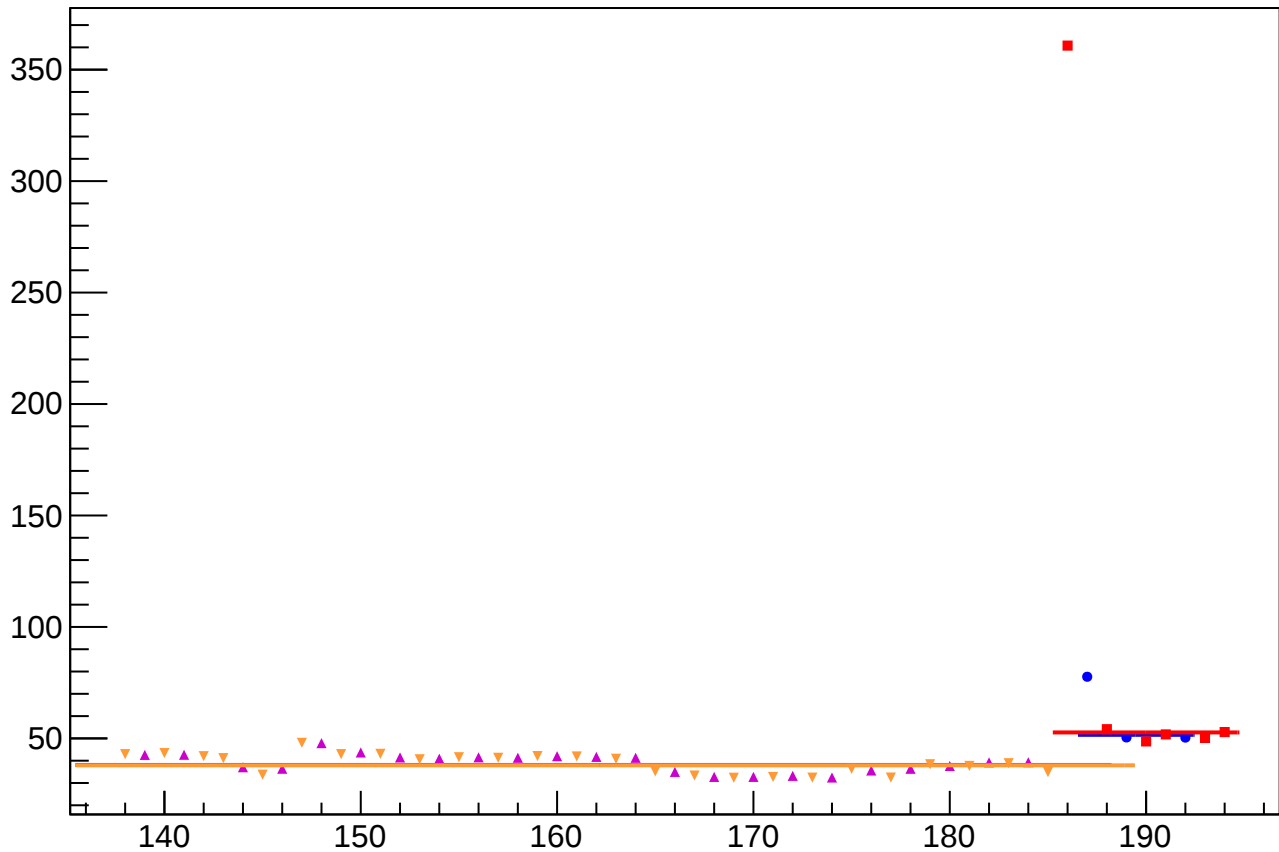
Right: -27.231 ± 24.383 χ^2/NDF : 15.2/8

In: 1.601 ± 8.971 χ^2/NDF : 36.7/25

Out: 38.507 ± 8.515 χ^2/NDF : 46.0/30

All: 21.014 ± 6.176 χ^2/NDF : 91.6/56

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 51.615 $\pm$ 0.030 χ^2 /NDF: 34947.7/2

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 52.679 $\pm$ 0.021 χ^2 /NDF: 554856.6/5

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

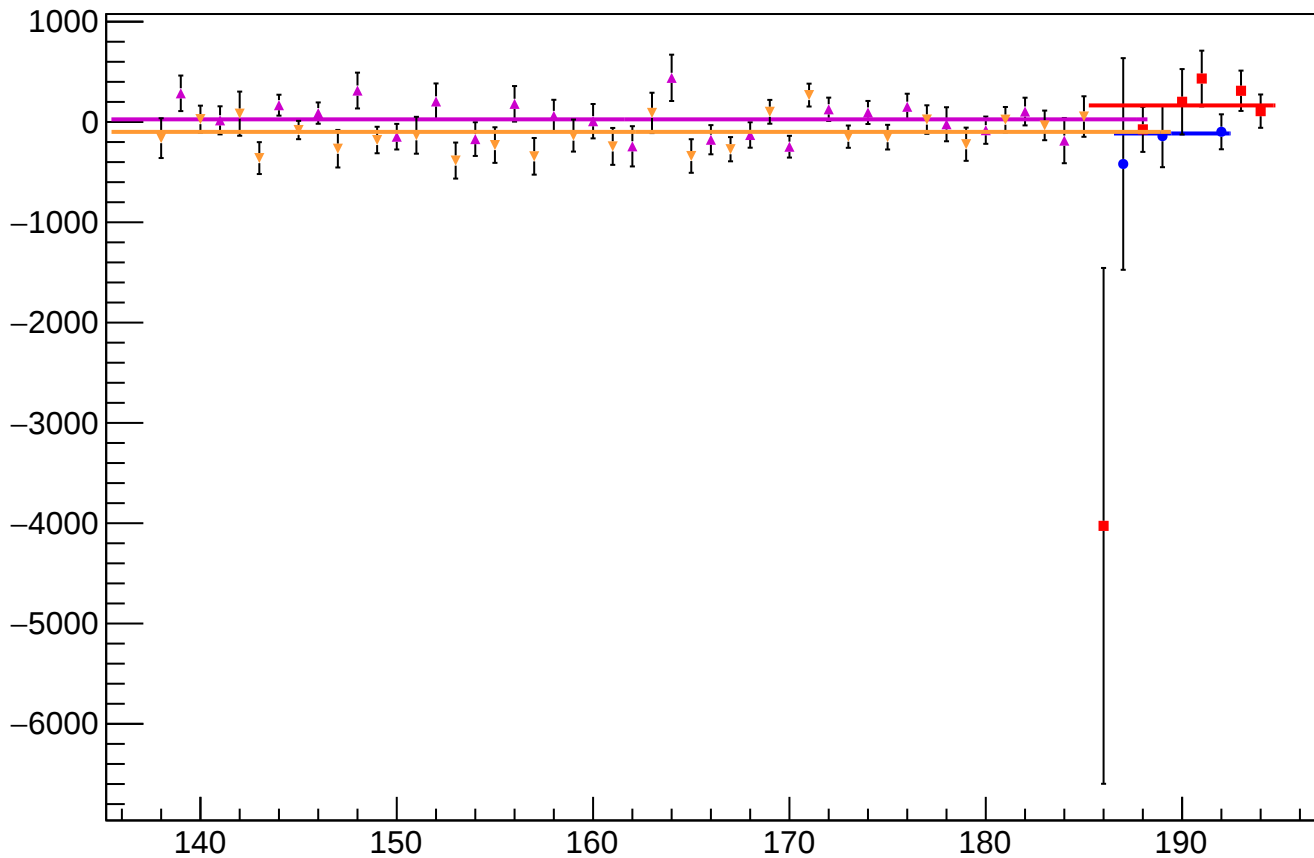
Right: 52.334 $\pm$ 0.017 χ^2 /NDF: 590639.9/8

In: 38.682 $\pm$ 0.006 χ^2 /NDF: 622423.1/25

Out: 39.140 $\pm$ 0.006 χ^2 /NDF: 1495686.2/30

All: 38.923 $\pm$ 0.004 χ^2 /NDF: 2120853.5/56

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -114.598 ± 150.291 χ^2/NDF : 0.1/2

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 165.050 ± 98.375 χ^2/NDF : 5.4/5

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

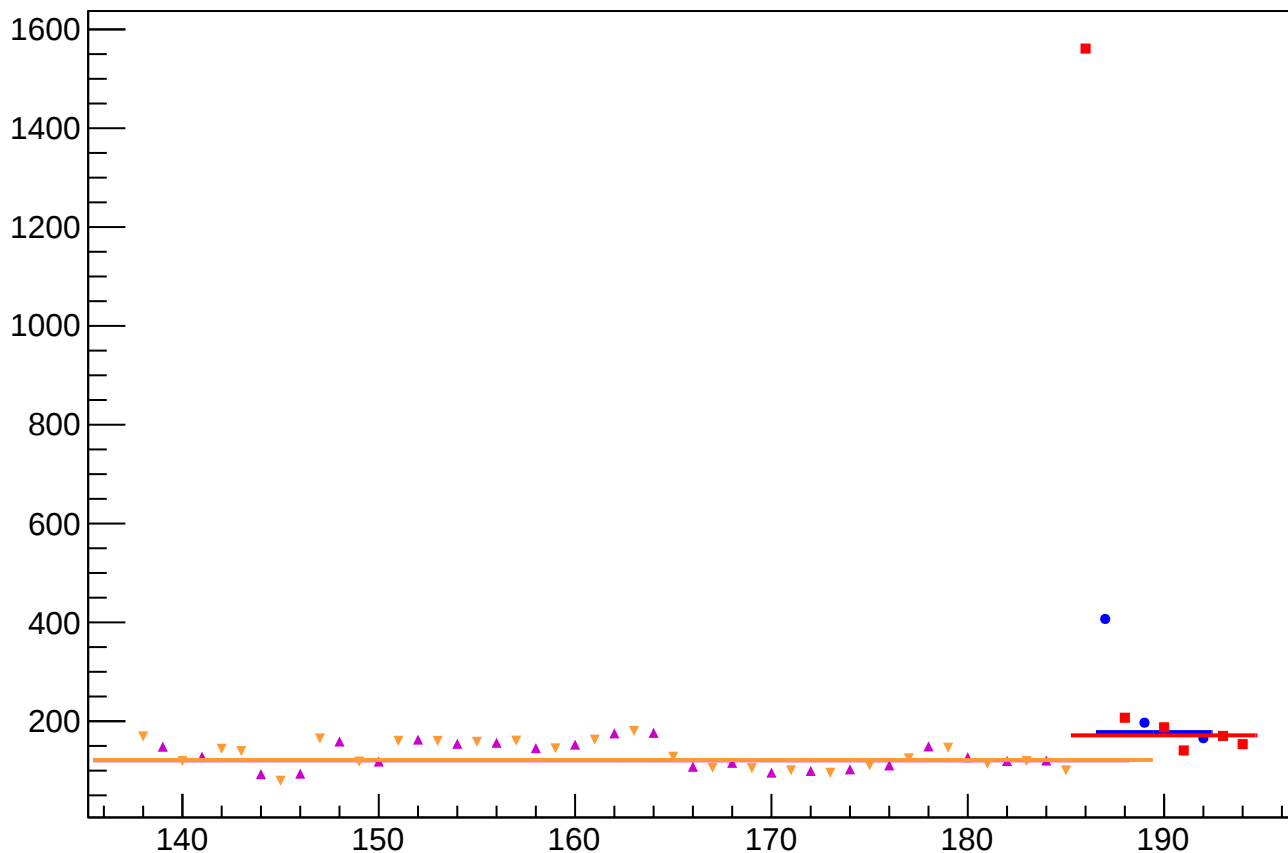
Right: 81.172 ± 82.310 χ^2/NDF : 7.9/8

In: 20.938 ± 29.113 χ^2/NDF : 31.6/25

Out: -77.522 ± 27.901 χ^2/NDF : 44.7/30

All: -30.386 ± 20.144 χ^2/NDF : 82.3/56

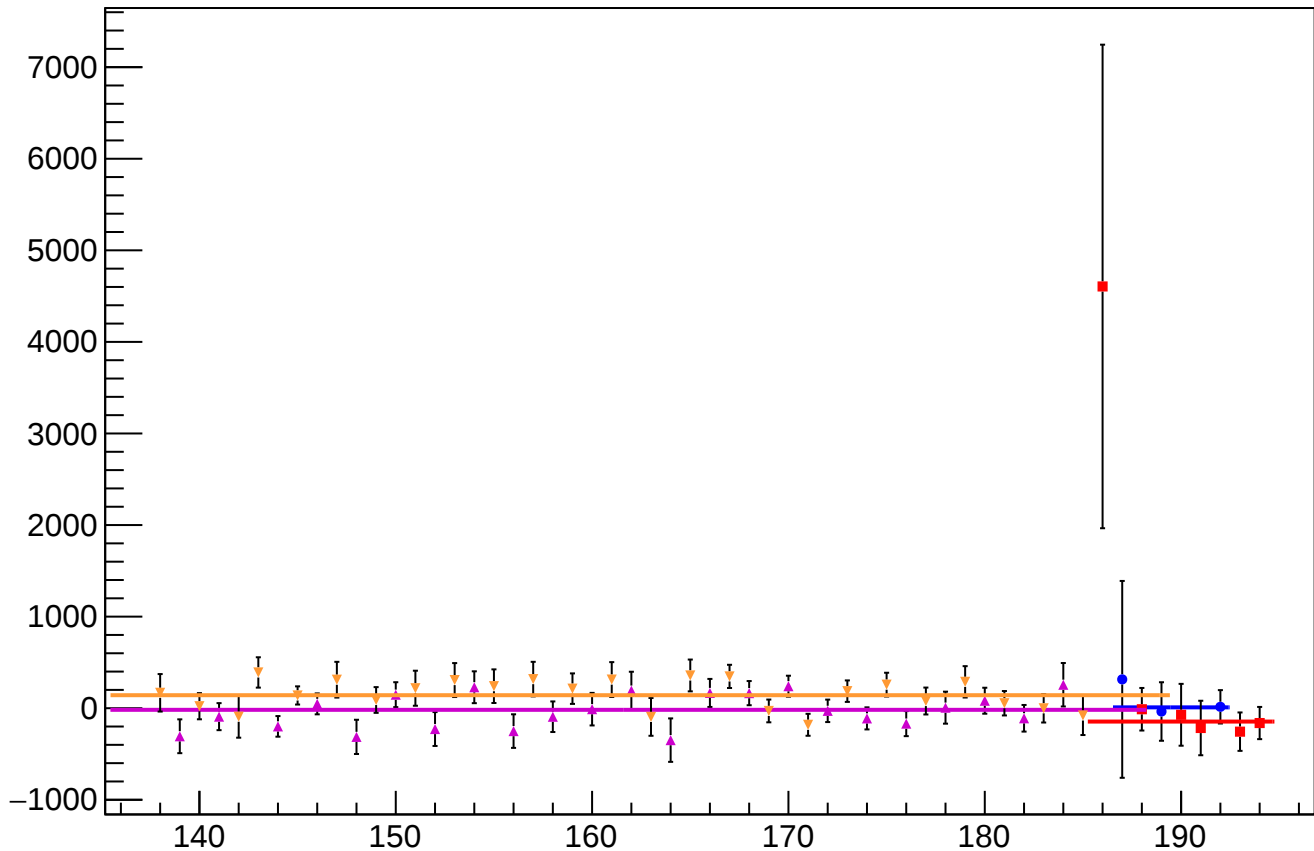
asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 177.930 $\pm$ 0.106 χ^2 /NDF: 111853.1/2
 Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24
 Right Out: 171.398 $\pm$ 0.070 χ^2 /NDF: 686923.4/5
 Left In: 120.927 $\pm$ 0.021 χ^2 /NDF:1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2 /NDF: 3094797.5/47
 Right: 173.358 $\pm$ 0.058 χ^2 /NDF: 801421.4/8
 In: 123.066 $\pm$ 0.021 χ^2 /NDF:1771636.9/25
 Out: 125.598 $\pm$ 0.020 χ^2 /NDF:2869769.3/30
 All: 124.386 $\pm$ 0.014 χ^2 /NDF: 4649293.6/56

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 9.231 ± 156.643 $\chi^2/\text{NDF}: 0.1/2$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -145.860 ± 103.264 $\chi^2/\text{NDF}: 4.0/5$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

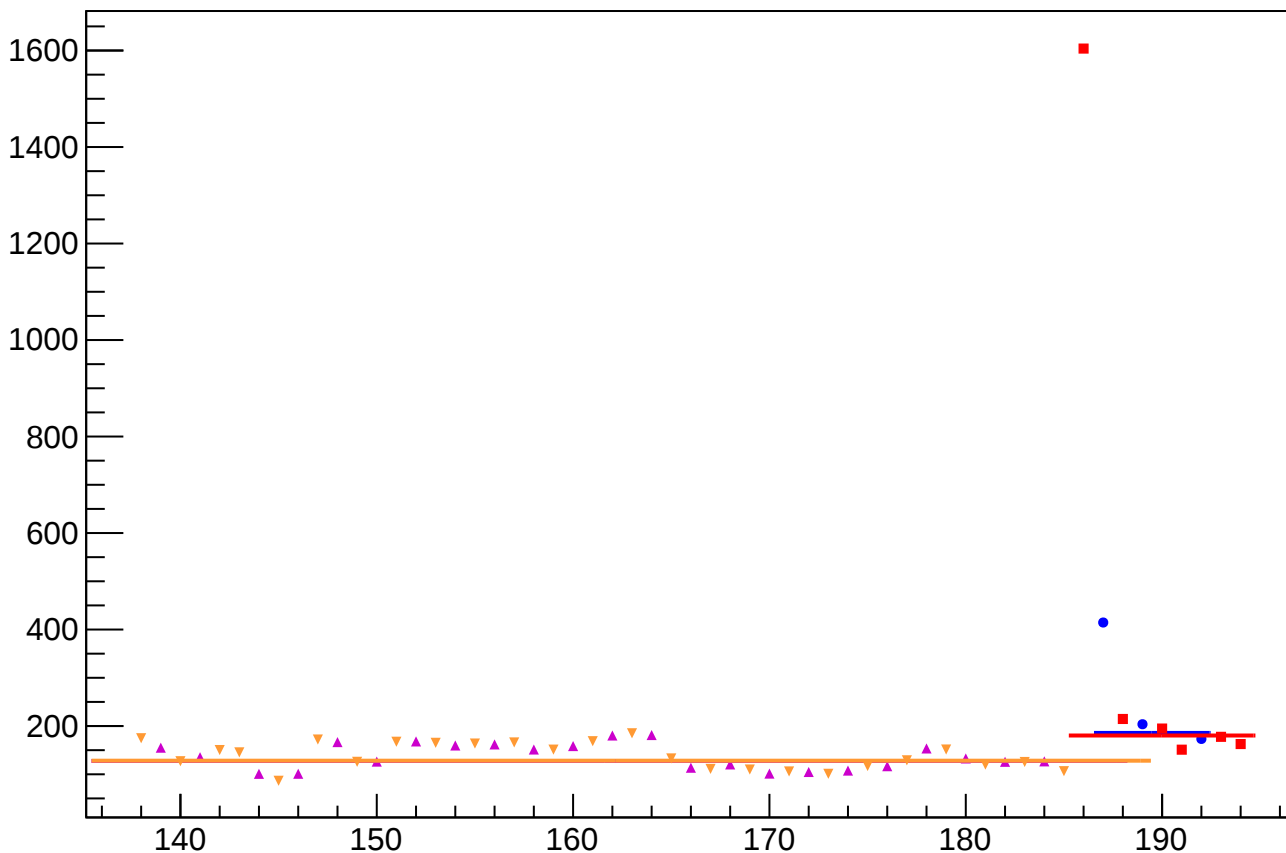
Right: -98.877 ± 86.216 $\chi^2/\text{NDF}: 4.7/8$

In: -16.652 ± 30.607 $\chi^2/\text{NDF}: 30.3/25$

Out: 118.812 ± 29.316 $\chi^2/\text{NDF}: 38.0/30$

All: 53.997 ± 21.171 $\chi^2/\text{NDF}: 78.5/56$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 185.733 $\pm$ 0.111 χ^2 /NDF: 106352.0/2

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 180.379 $\pm$ 0.073 χ^2 /NDF: 668658.6/5

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF:1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

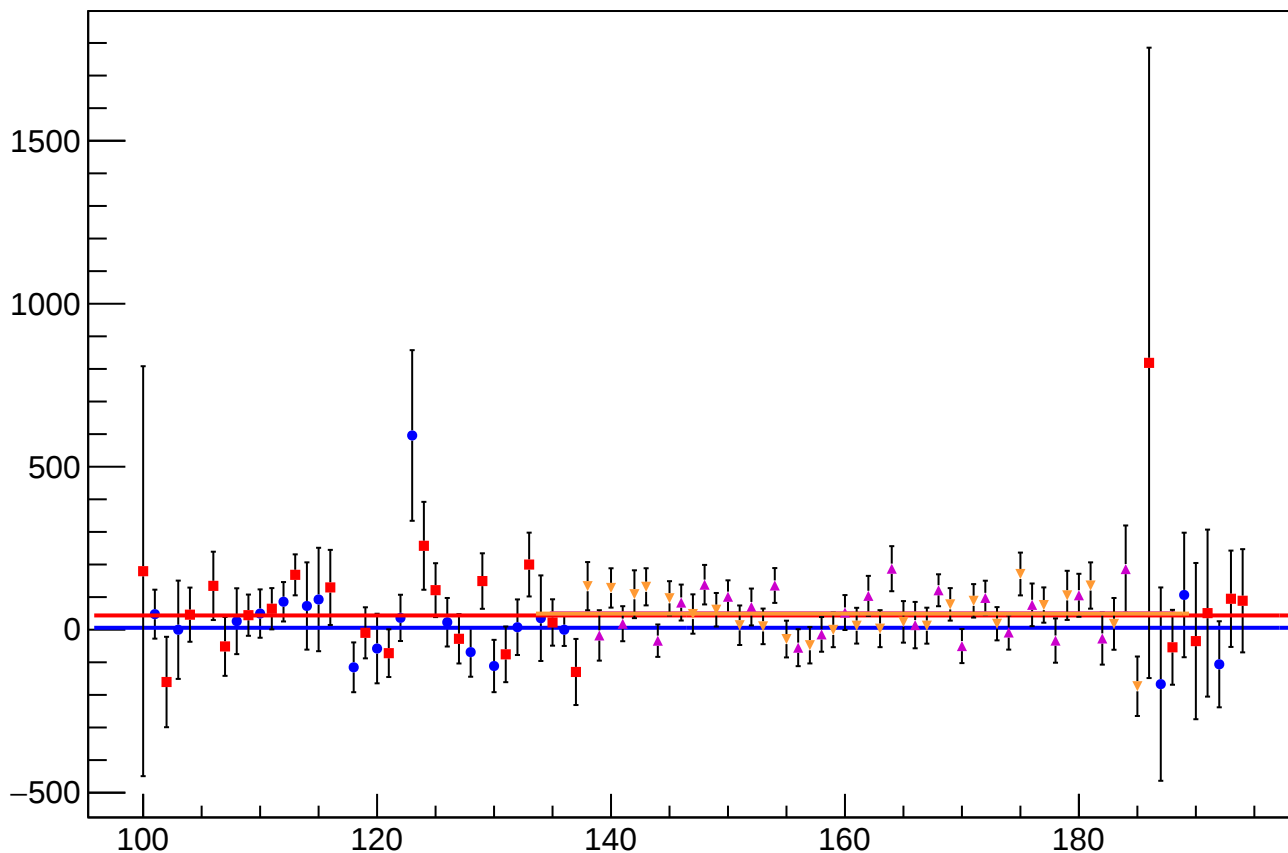
Right: 182.001 $\pm$ 0.061 χ^2 /NDF: 776639.6/8

In: 129.765 $\pm$ 0.022 χ^2 /NDF:1607514.1/25

Out: 132.383 $\pm$ 0.021 χ^2 /NDF:2671518.6/30

All: 131.130 $\pm$ 0.015 χ^2 /NDF: 4286659.8/56

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 5.883 ± 19.801 $\chi^2/\text{NDF}: 15.7/19$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 43.740 ± 18.777 $\chi^2/\text{NDF}: 26.6/24$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

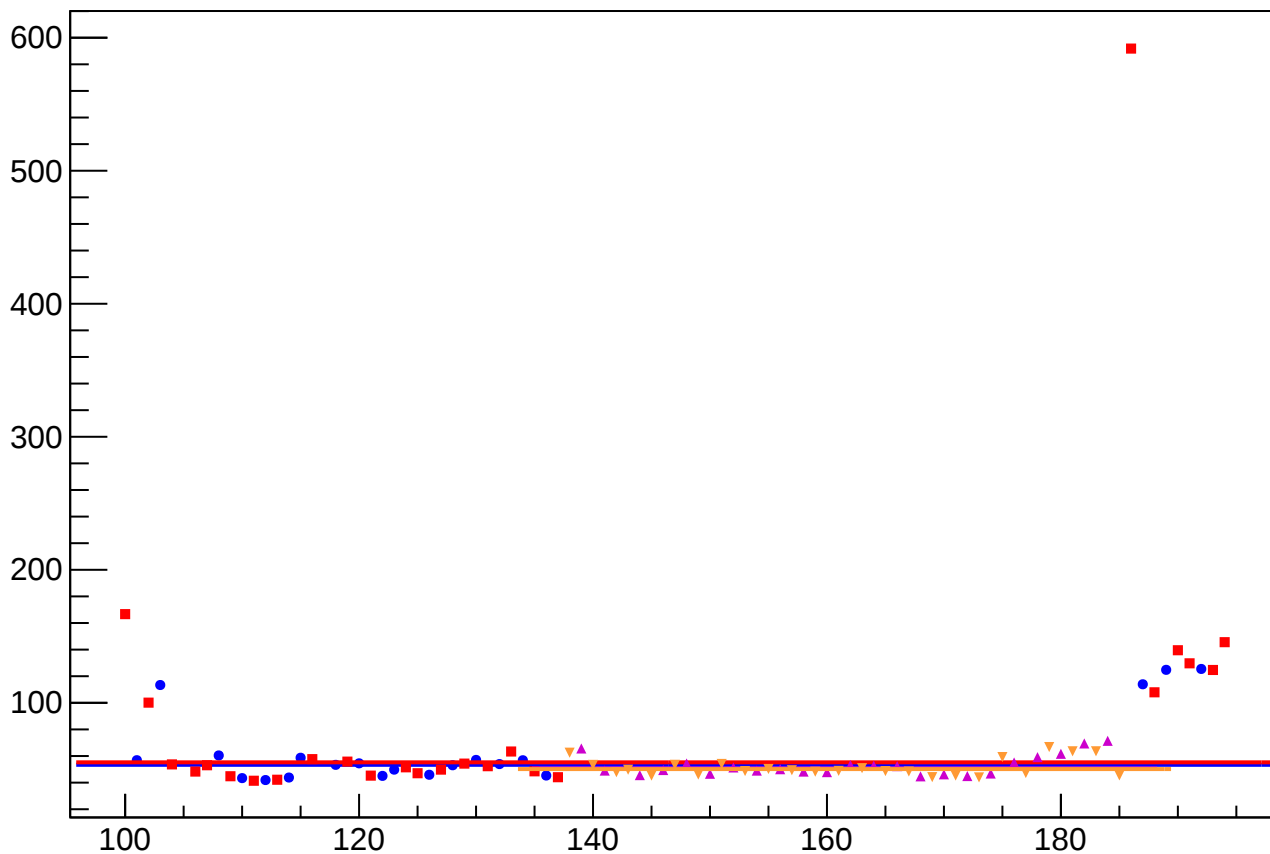
Right: 25.815 ± 13.625 $\chi^2/\text{NDF}: 44.3/44$

In: 38.023 ± 10.420 $\chi^2/\text{NDF}: 51.5/42$

Out: 47.798 ± 9.994 $\chi^2/\text{NDF}: 54.8/49$

All: 43.114 ± 7.213 $\chi^2/\text{NDF}: 106.8/92$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 53.400 $\pm$ 0.014 χ^2 /NDF: 1516607.5/19

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 55.259 $\pm$ 0.013 χ^2 /NDF: 3192911.4/24

Left In: 50.683 $\pm$ 0.009 χ^2 /NDF: 469292.3/22

Left: 50.427 $\pm$ 0.006 χ^2 /NDF: 938655.0/47

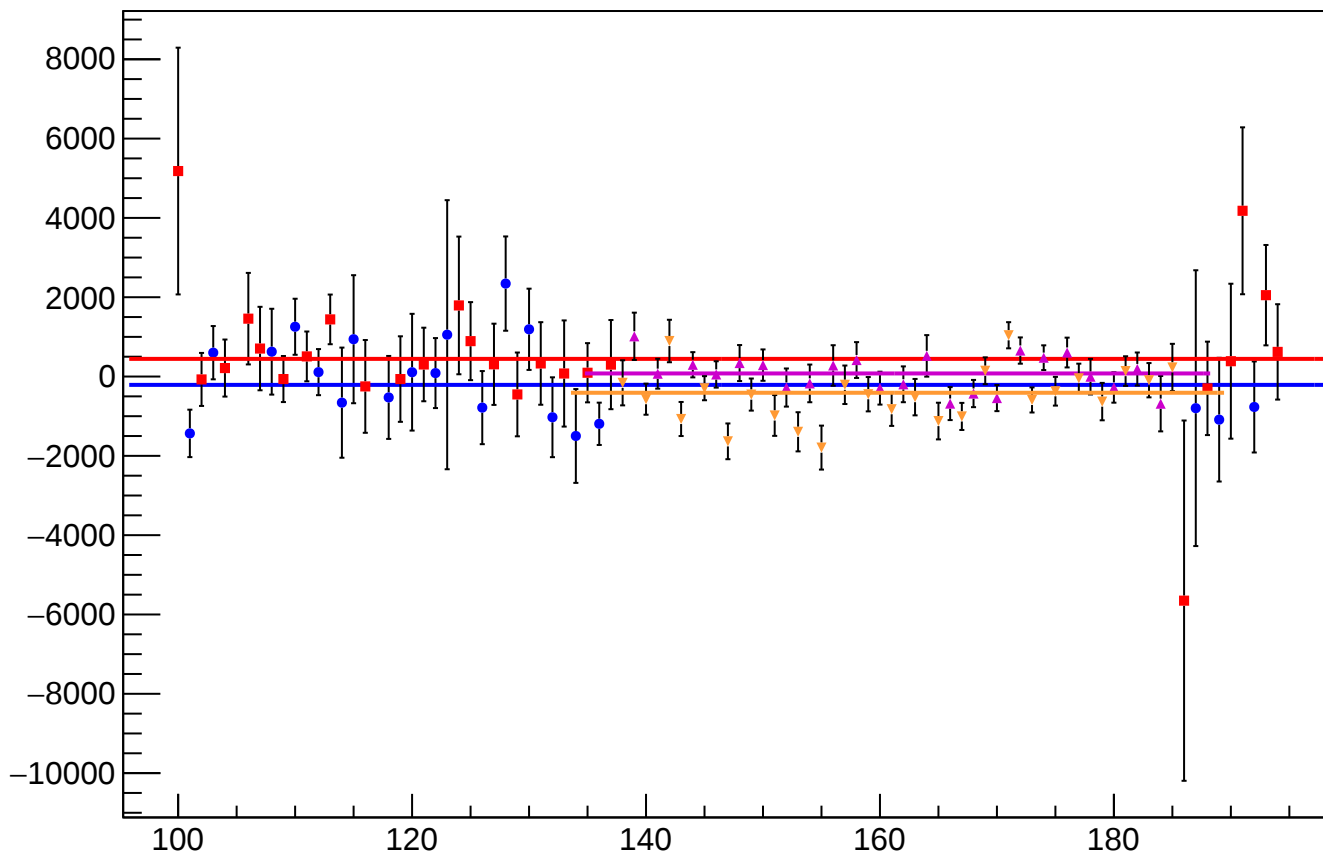
Right: 54.379 $\pm$ 0.010 χ^2 /NDF: 4718799.2/44

In: 51.435 $\pm$ 0.007 χ^2 /NDF: 2013133.6/42

Out: 51.626 $\pm$ 0.007 χ^2 /NDF: 3765083.0/49

All: 51.535 $\pm$ 0.005 χ^2 /NDF: 5778563.7/92

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -210.292 ± 205.048 χ^2/NDF : 24.5/19

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 445.315 ± 193.919 χ^2/NDF : 16.6/24

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

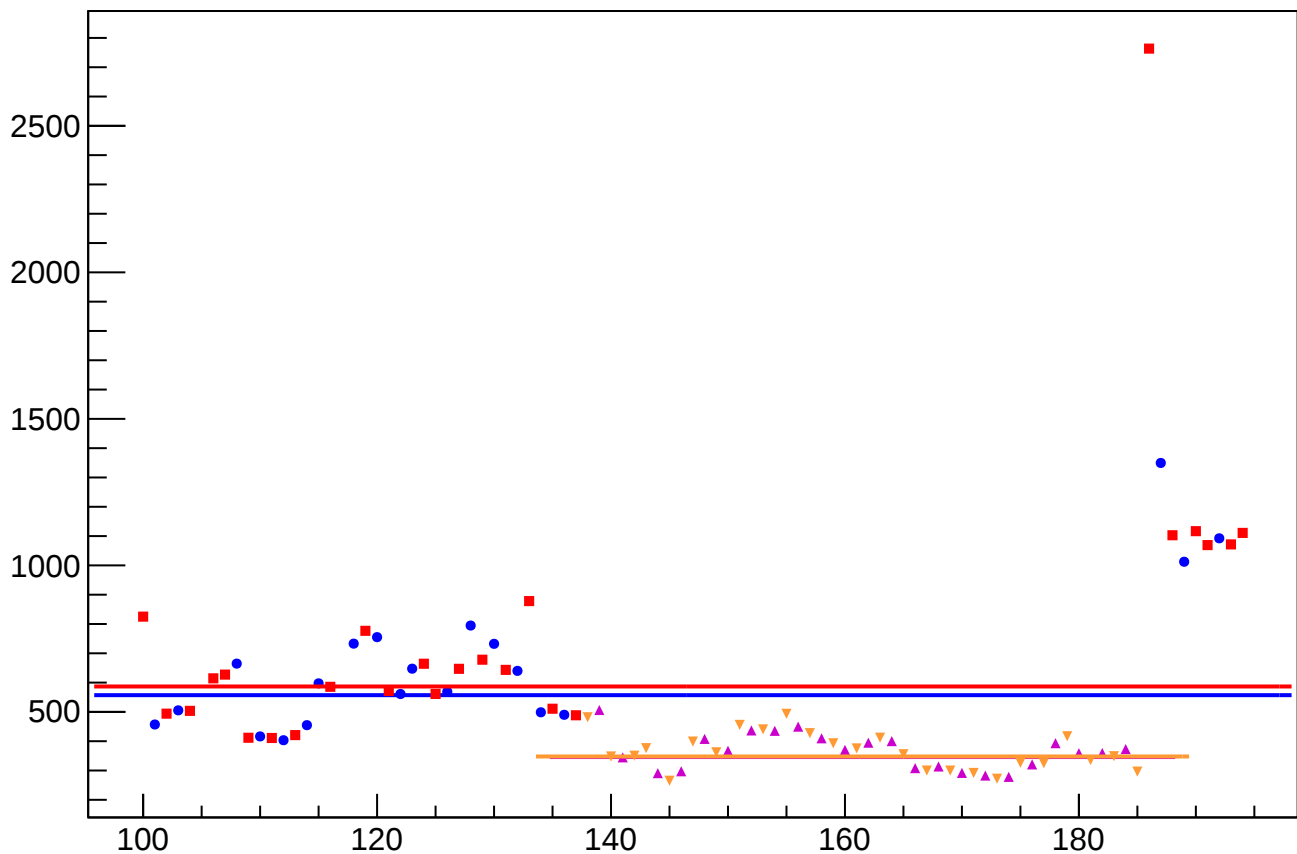
Right: 135.785 ± 140.892 χ^2/NDF : 46.6/44

In: 36.400 ± 77.788 χ^2/NDF : 51.1/42

Out: -278.617 ± 75.797 χ^2/NDF : 94.7/49

All: -125.190 ± 54.287 χ^2/NDF : 154.2/92

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 557.118 $\pm$ 0.145 χ^2 /NDF: 1311279.8/19

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF: 1044096.7/24

Right Out: 586.777 $\pm$ 0.137 χ^2 /NDF: 255555.2/24

Left In: 345.954 $\pm$ 0.059 χ^2 /NDF: 900847.0/22

Left: 346.935 $\pm$ 0.042 χ^2 /NDF: 1945476.7/47

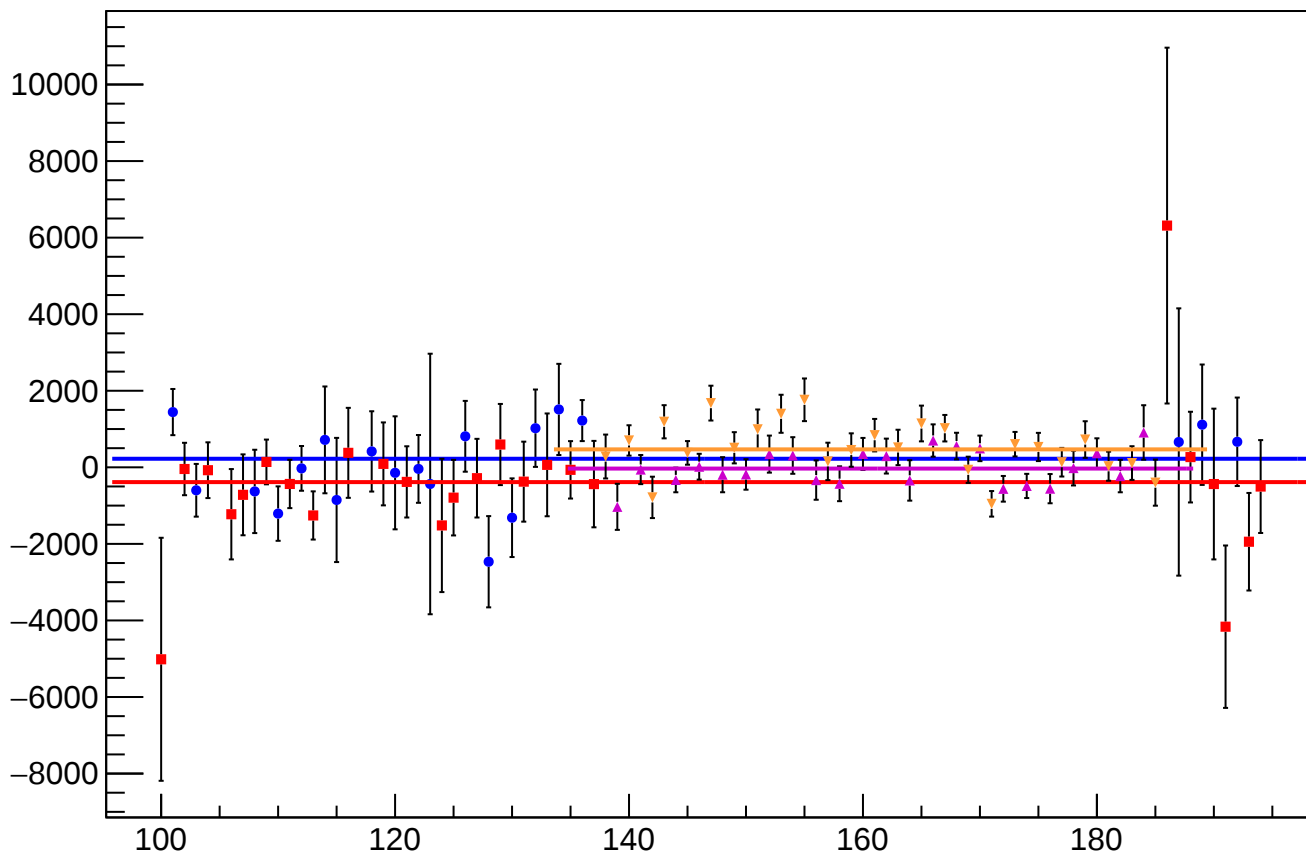
Right: 572.774 $\pm$ 0.100 χ^2 /NDF: 3888923.6/44

In: 376.344 $\pm$ 0.055 χ^2 /NDF: 4027945.9/42

Out: 384.375 $\pm$ 0.054 χ^2 /NDF: 6171373.2/49

All: 380.463 $\pm$ 0.038 χ^2 /NDF: 10210252.9/92

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 223.709 $\pm$ 206.492 χ^2/NDF : 24.6/19

Left Out: 468.863 $\pm$ 83.295 χ^2/NDF : 57.5/24

Right Out: -386.213 $\pm$ 195.415 χ^2/NDF : 15.3/24

Left In: -32.801 $\pm$ 85.064 χ^2/NDF : 25.7/22

Left: 223.299 $\pm$ 59.514 χ^2/NDF : 100.9/47

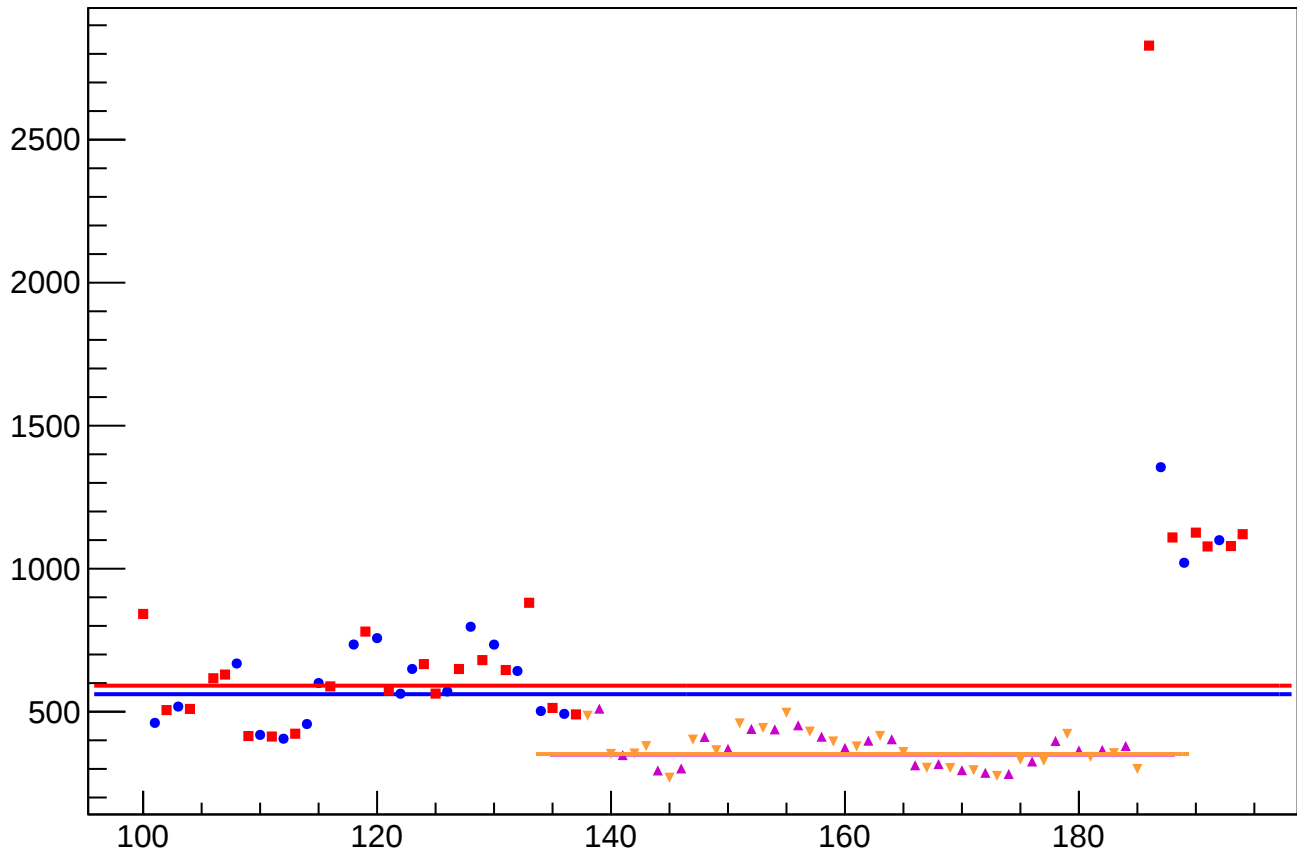
Right: -98.049 $\pm$ 141.934 χ^2/NDF : 44.6/44

In: 4.413 $\pm$ 78.651 χ^2/NDF : 51.6/42

Out: 337.392 $\pm$ 76.625 χ^2/NDF : 89.0/49

All: 175.248 $\pm$ 54.884 χ^2/NDF : 149.9/92

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 561.216+/-0.146 χ^2/NDF : 1303098.6/19

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 591.039+/-0.138 χ^2/NDF : 2553123.2/24

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

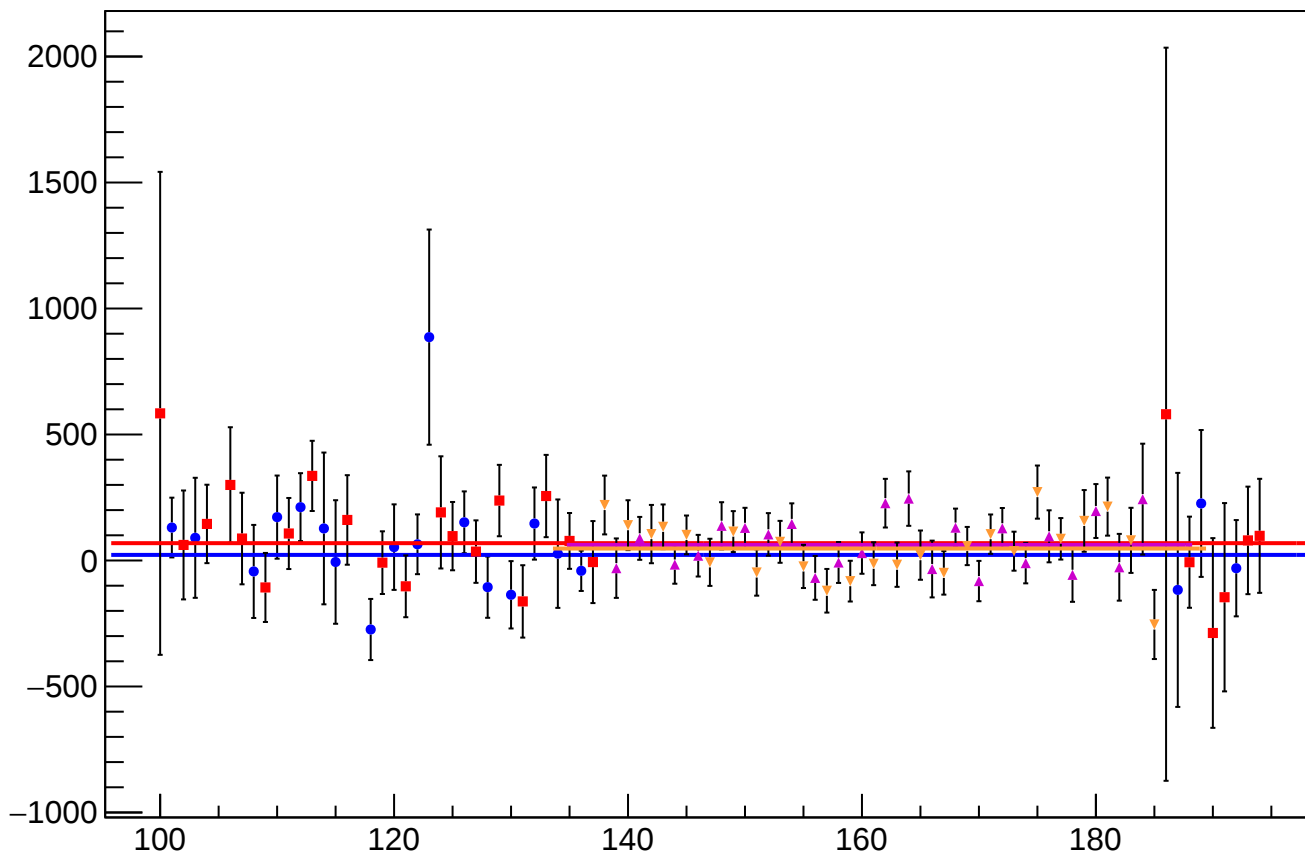
Right: 576.949+/-0.100 χ^2/NDF : 3878229.9/44

In: 380.780+/-0.056 χ^2/NDF : 3967741.2/42

Out: 388.765+/-0.054 χ^2/NDF : 6102510.1/49

All: 384.877+/-0.039 χ^2/NDF : 10080827.6/92

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 22.208 $\pm$ 33.762 χ^2 /NDF: 19.9/19

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 68.774 $\pm$ 33.105 χ^2 /NDF: 17.1/24

Left In: 61.830 $\pm$ 18.958 χ^2 /NDF:24.0/22

Left: 54.355 $\pm$ 13.149 χ^2 /NDF: 53.7/47

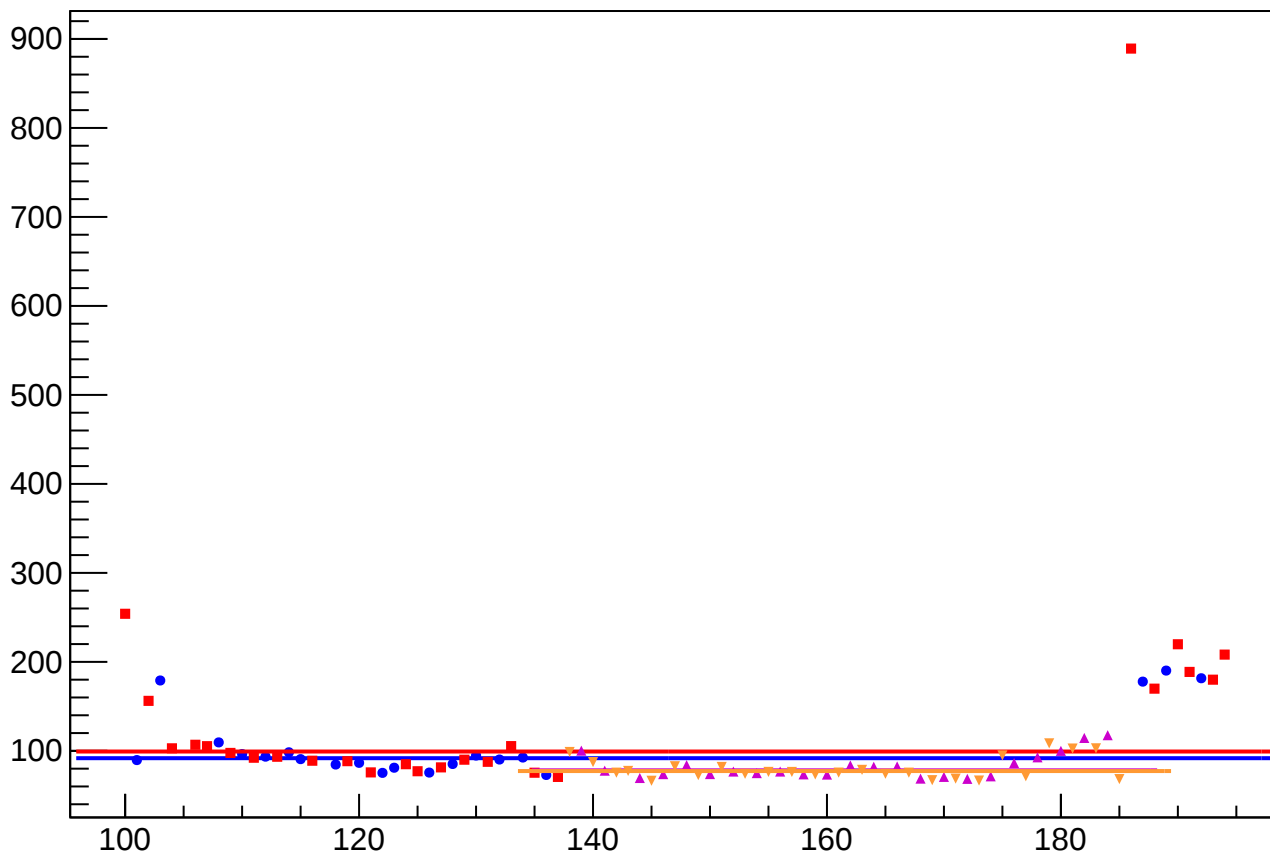
Right: 45.949 $\pm$ 23.637 χ^2 /NDF: 37.9/44

In: 52.332 $\pm$ 16.530 χ^2 /NDF:44.9/42

Out: 52.403 $\pm$ 15.984 χ^2 /NDF:46.8/49

All: 52.368 $\pm$ 11.491 χ^2 /NDF: 91.6/92

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 91.771 $\pm$ 0.024 χ^2 /NDF: 1231430.7/19

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 99.270 $\pm$ 0.023 χ^2 /NDF: 2545279.6/24

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF: 582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

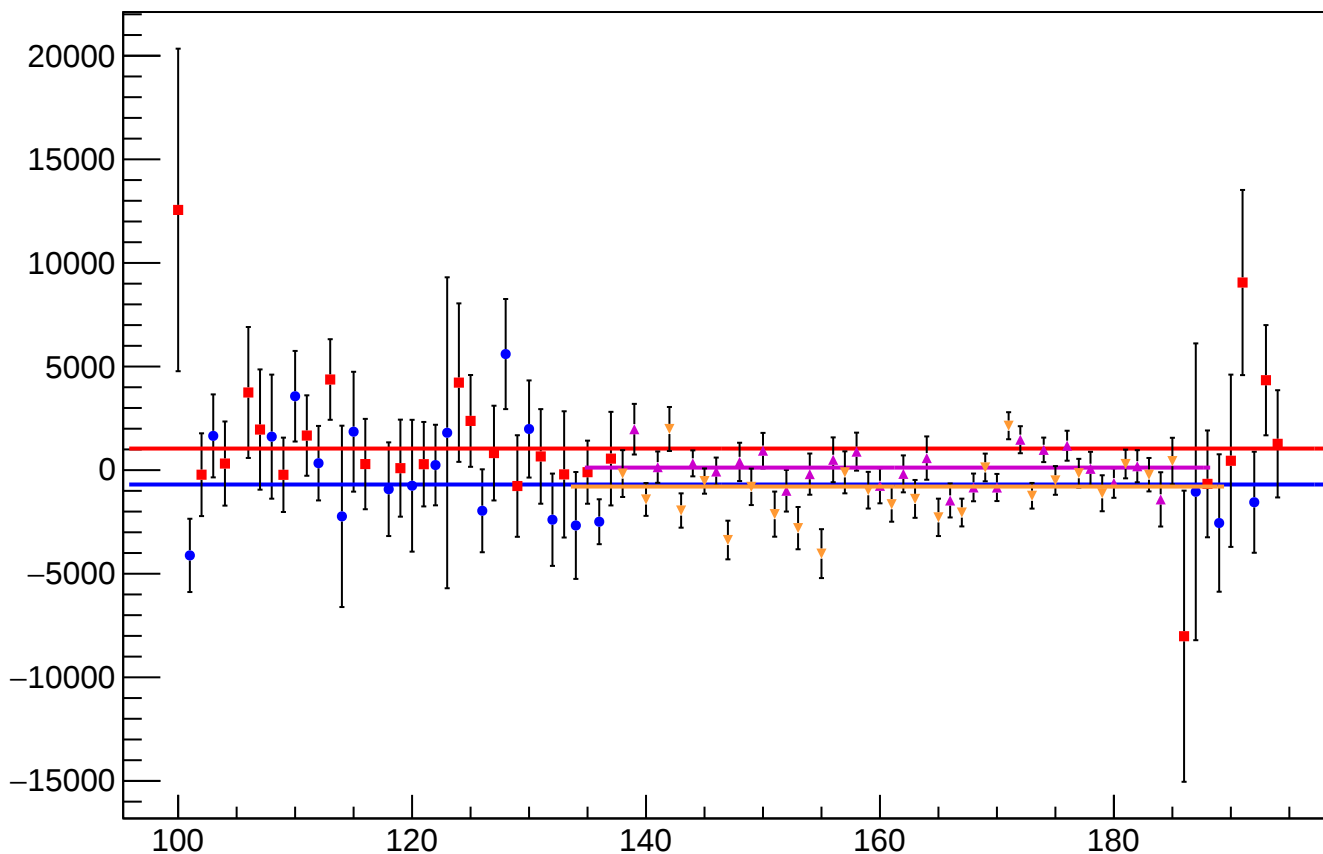
Right: 95.594 $\pm$ 0.017 χ^2 /NDF: 3827019.0/44

In: 81.407 $\pm$ 0.012 χ^2 /NDF: 2061449.7/42

Out: 82.434 $\pm$ 0.011 χ^2 /NDF: 3855439.2/49

All: 81.938 $\pm$ 0.008 χ^2 /NDF: 5920884.9/92

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -693.562 $\pm$ 499.862 χ^2 /NDF: 22.8/19

Left Out: -792.776 $\pm$ 162.659 χ^2 /NDF:66.6/24

Right Out: 1041.688 $\pm$ 480.657 χ^2 /NDF: 16.8/24

Left In: 122.198 $\pm$ 166.193 χ^2 /NDF:25.9/22

Left: -345.122 $\pm$ 116.247 χ^2 /NDF: 108.0/47

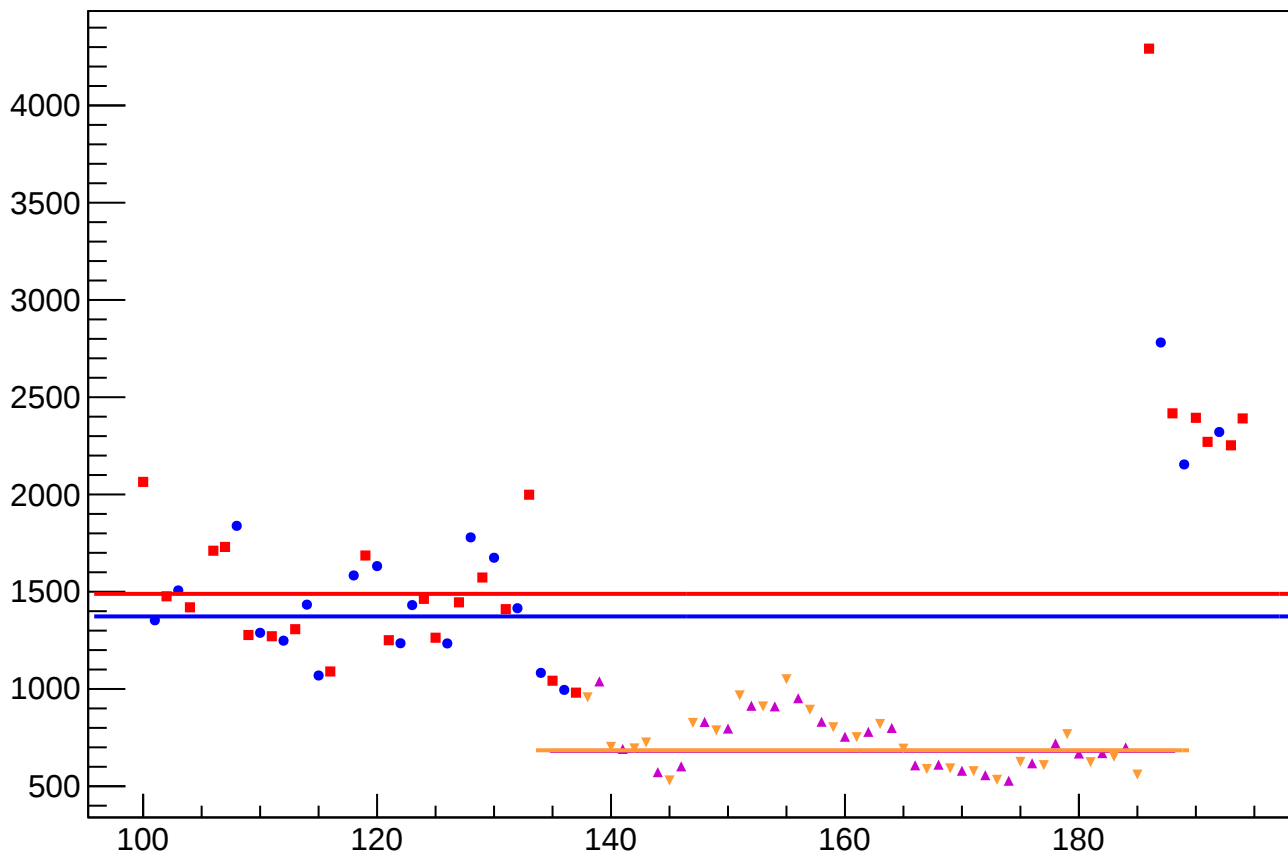
Right: 208.037 $\pm$ 346.466 χ^2 /NDF: 45.8/44

In: 40.998 $\pm$ 157.705 χ^2 /NDF:51.1/42

Out: -604.278 $\pm$ 154.075 χ^2 /NDF:96.5/49

All: -289.152 $\pm$ 110.209 χ^2 /NDF: 156.2/92

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1373.062+/-0.353 χ^2/NDF : 982271.0/19

Left Out: 684.785+/-0.115 χ^2/NDF : 1280146.2/24

Right Out: 1488.984+/-0.340 χ^2/NDF : 1712707.8/24

Left In: 681.712+/-0.118 χ^2/NDF : 1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

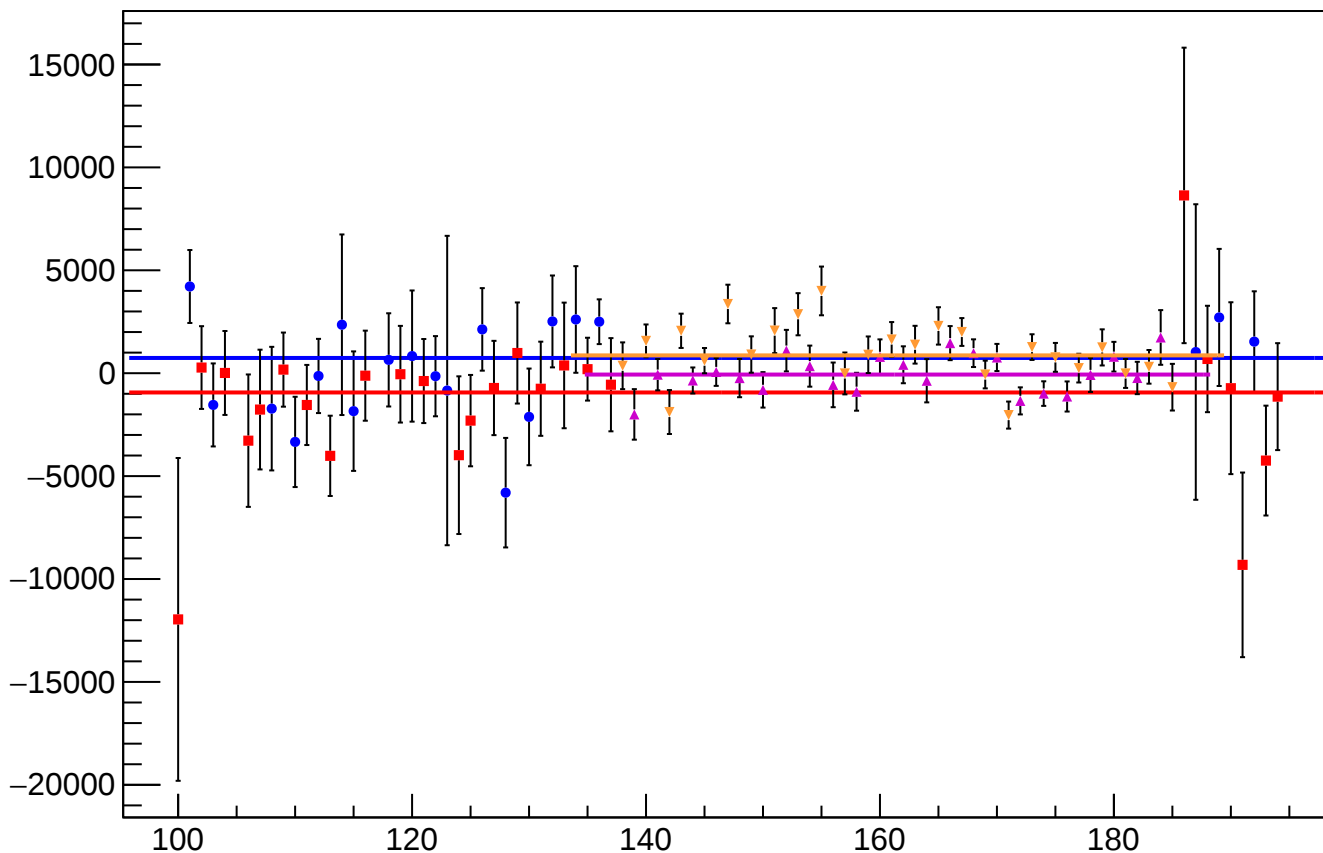
Right: 1433.293+/-0.245 χ^2/NDF : 2750866.0/44

In: 750.528+/-0.112 χ^2/NDF : 5546923.3/42

Out: 767.419+/-0.109 χ^2/NDF : 8016265.8/49

All: 759.170+/-0.078 χ^2/NDF : 13574927.4/92

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 740.976 $\pm$ 501.304 χ^2 /NDF: 22.9/19

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -936.098 $\pm$ 482.303 χ^2 /NDF: 16.1/24

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF:26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

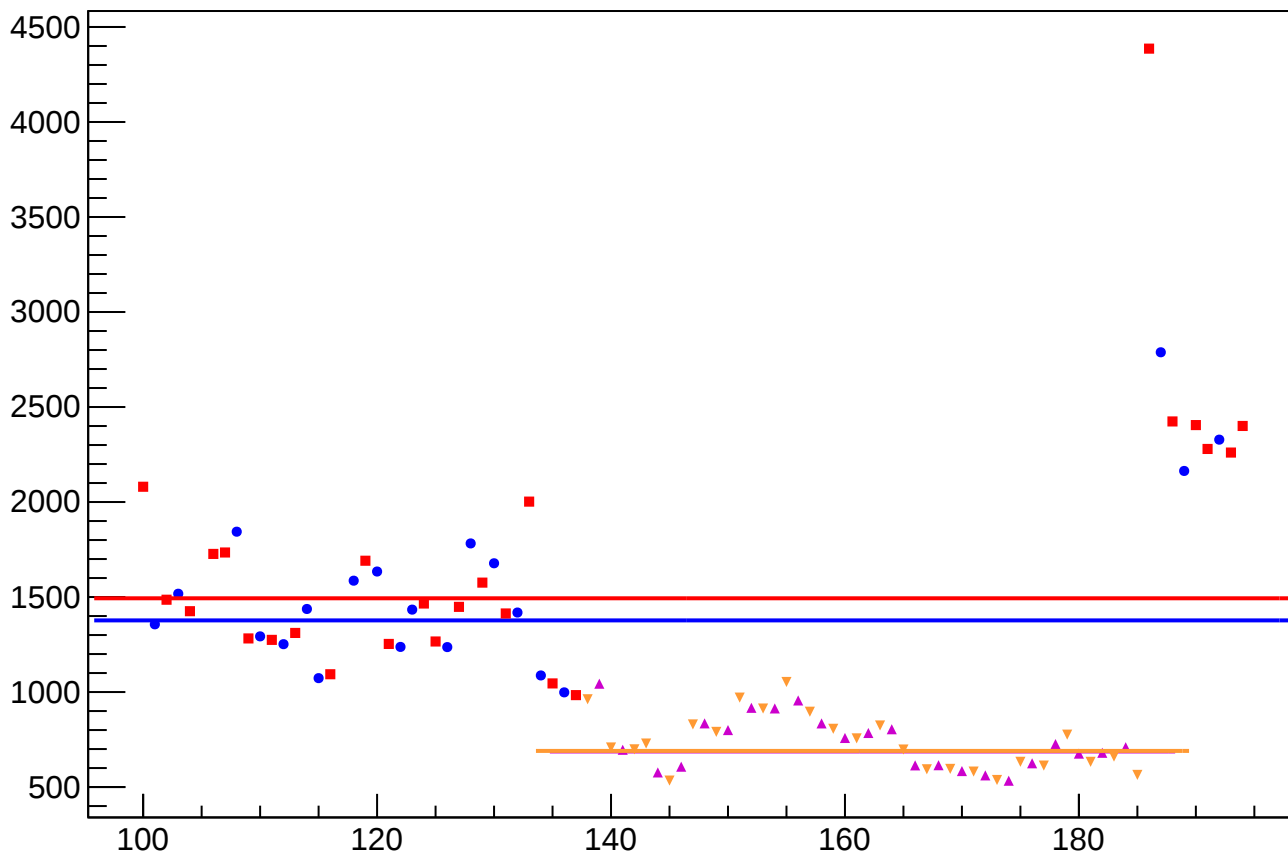
Right: -129.946 $\pm$ 347.563 χ^2 /NDF: 44.8/44

In: 15.099 $\pm$ 158.853 χ^2 /NDF:51.7/42

Out: 679.102 $\pm$ 155.172 χ^2 /NDF:91.5/49

All: 354.884 $\pm$ 111.002 χ^2 /NDF: 152.1/92

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1377.056 $\pm$ 0.354 χ^2 /NDF: 982043.4/19

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF:1258158.2/24

Right Out: 1493.372 $\pm$ 0.341 χ^2 /NDF: 1721874.4/24

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF:1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

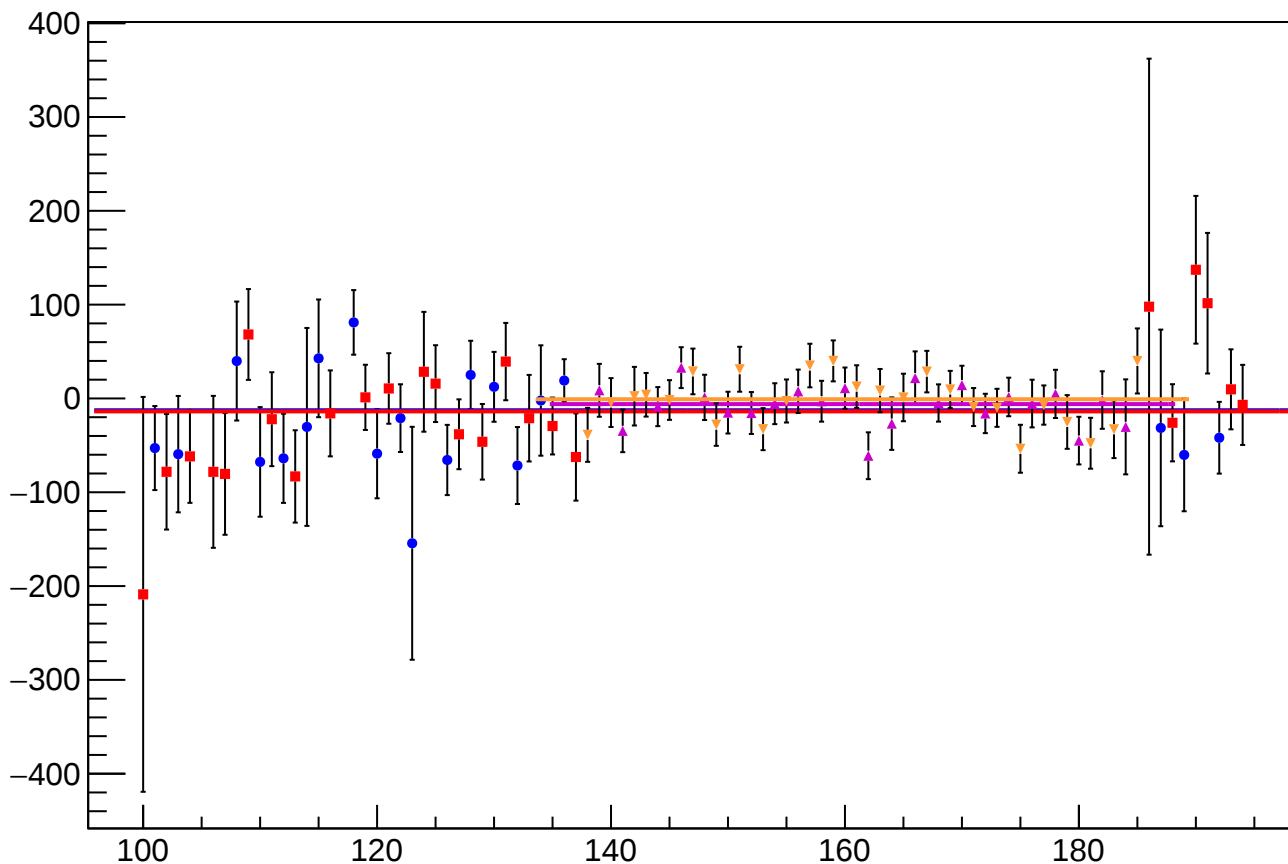
Right: 1437.460 $\pm$ 0.246 χ^2 /NDF: 2759833.5/44

In: 756.485 $\pm$ 0.112 χ^2 /NDF:5488707.5/42

Out: 773.307 $\pm$ 0.110 χ^2 /NDF:7952683.5/49

All: 765.093 $\pm$ 0.078 χ^2 /NDF: 13452867.1/92

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -12.587 ± 9.874 $\chi^2/\text{NDF}: 23.4/19$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: -13.805 ± 9.463 $\chi^2/\text{NDF}: 21.8/24$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

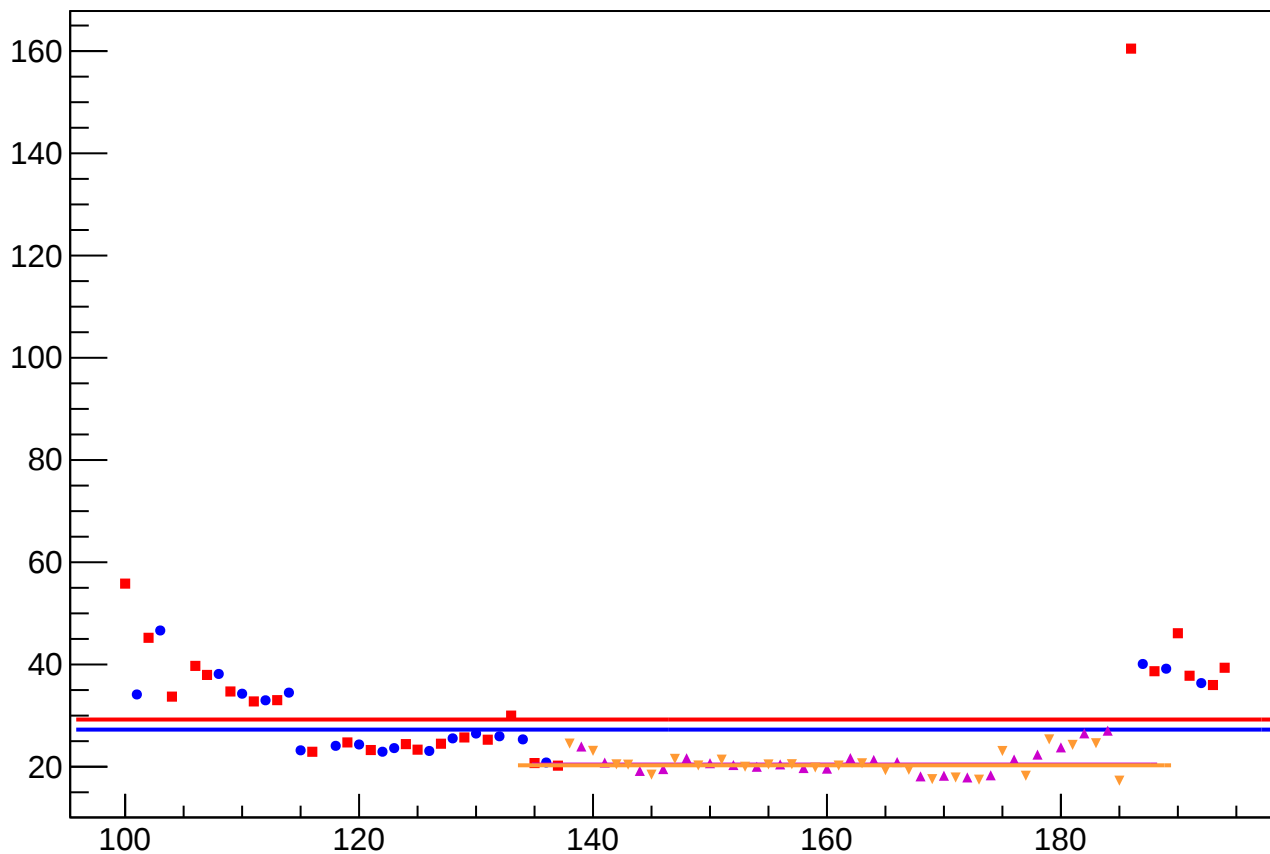
Right: -13.222 ± 6.832 $\chi^2/\text{NDF}: 45.2/44$

In: -7.346 ± 4.407 $\chi^2/\text{NDF}: 40.7/42$

Out: -3.475 ± 4.253 $\chi^2/\text{NDF}: 51.2/49$

All: -5.341 ± 3.060 $\chi^2/\text{NDF}: 92.3/92$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 27.262 $\pm$ 0.007 χ^2 /NDF: 848455.8/19

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 29.234 $\pm$ 0.007 χ^2 /NDF: 1653725.8/24

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

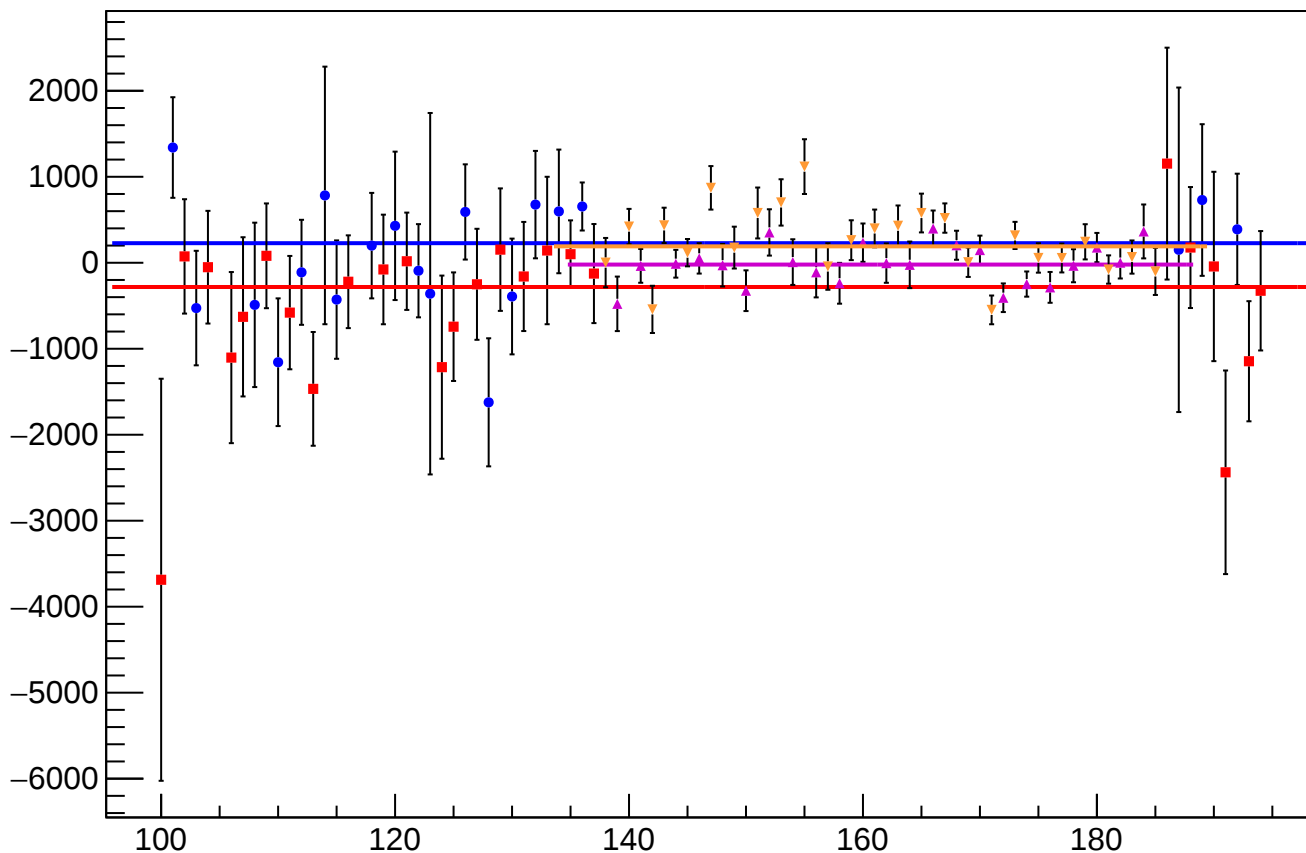
Right: 28.290 $\pm$ 0.005 χ^2 /NDF: 2543788.3/44

In: 21.786 $\pm$ 0.003 χ^2 /NDF: 1940042.4/42

Out: 22.088 $\pm$ 0.003 χ^2 /NDF: 3490079.7/49

All: 21.942 $\pm$ 0.002 χ^2 /NDF: 5434962.8/92

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 227.762 ± 142.150 χ^2/NDF : 21.7/19

Left Out: 190.867 ± 41.314 χ^2/NDF : 67.9/24

Right Out: -281.810 ± 137.928 χ^2/NDF : 16.9/24

Left In: -20.998 ± 42.291 χ^2/NDF : 27.7/22

Left: 87.410 ± 29.553 χ^2/NDF : 108.4/47

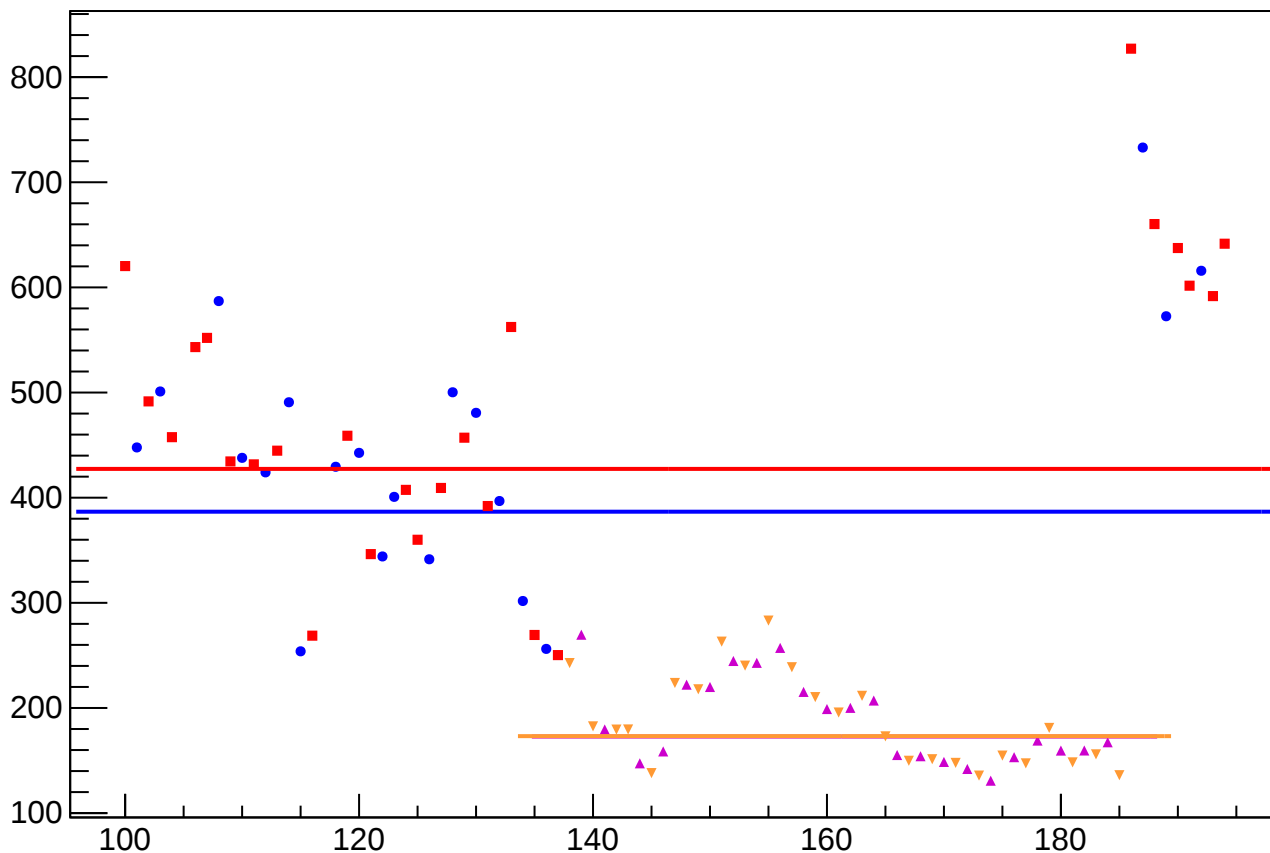
Right: -34.704 ± 98.989 χ^2/NDF : 45.3/44

In: -0.771 ± 40.535 χ^2/NDF : 52.3/42

Out: 151.951 ± 39.577 χ^2/NDF : 95.6/49

All: 77.416 ± 28.318 χ^2/NDF : 155.1/92

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 386.677 $\pm$ 0.101 χ^2 /NDF: 1270920.1/19

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF: 1561250.6/24

Right Out: 427.379 $\pm$ 0.098 χ^2 /NDF: 1728015.5/24

Left In: 172.828 $\pm$ 0.030 χ^2 /NDF: 1372131.7/22

Left: 173.023 $\pm$ 0.021 χ^2 /NDF: 2933465.9/47

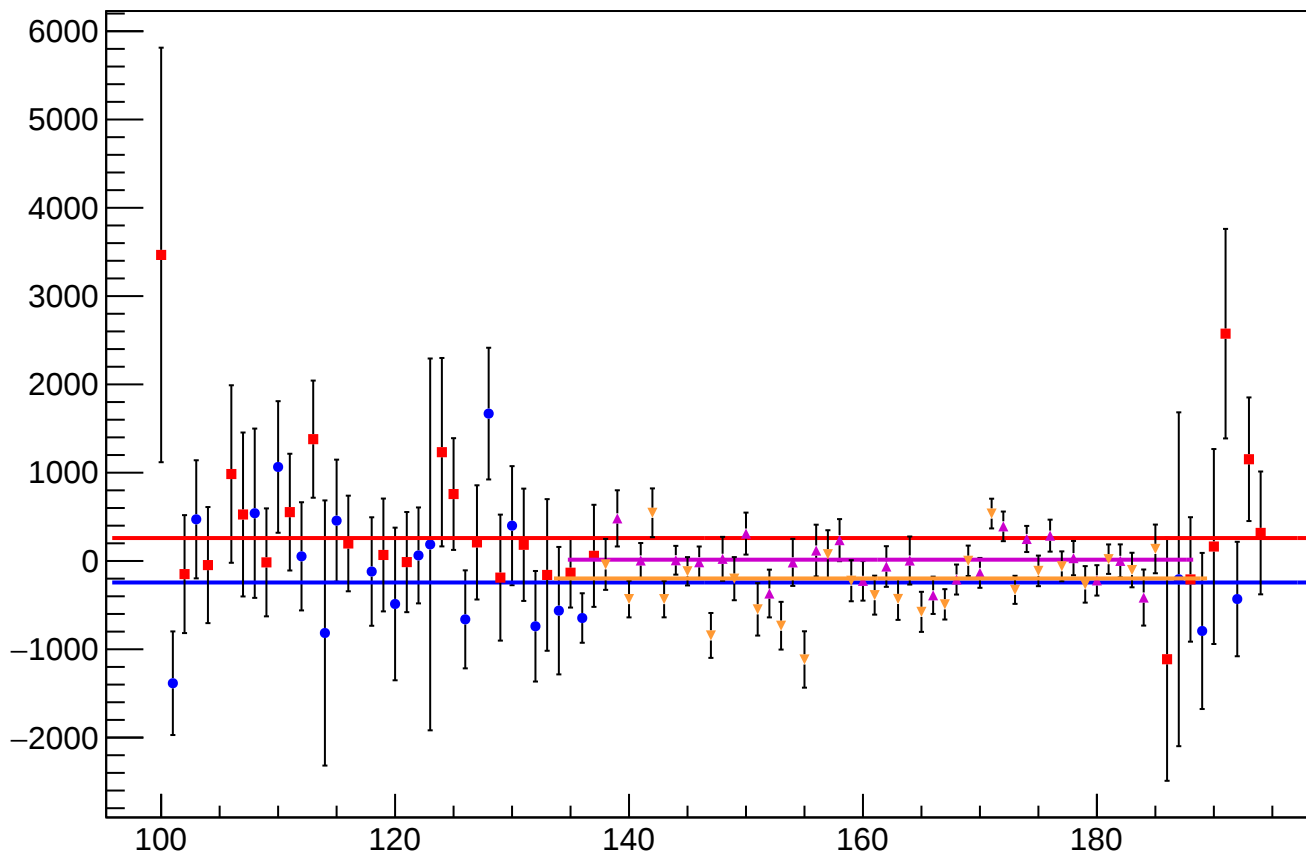
Right: 407.642 $\pm$ 0.070 χ^2 /NDF: 3083393.0/44

In: 190.217 $\pm$ 0.029 χ^2 /NDF: 6801355.7/42

Out: 194.136 $\pm$ 0.028 χ^2 /NDF: 9521658.9/49

All: 192.223 $\pm$ 0.020 χ^2 /NDF: 16332589.3/92

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -243.609 ± 142.555 $\chi^2/\text{NDF}: 22.0/19$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 259.678 ± 138.348 $\chi^2/\text{NDF}: 16.7/24$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

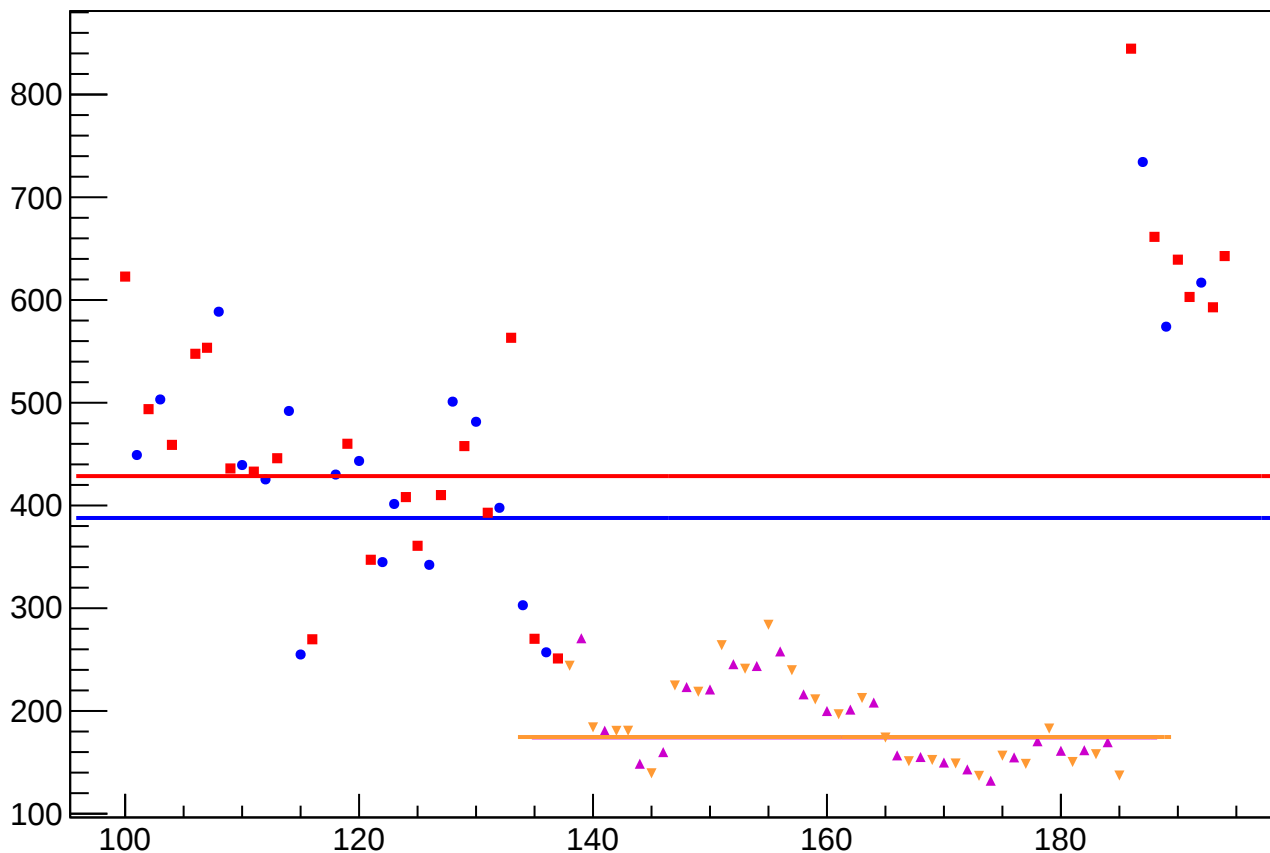
Right: 15.570 ± 99.281 $\chi^2/\text{NDF}: 45.1/44$

In: -6.580 ± 40.842 $\chi^2/\text{NDF}: 52.7/42$

Out: -159.911 ± 39.871 $\chi^2/\text{NDF}: 91.0/49$

All: -85.090 ± 28.530 $\chi^2/\text{NDF}: 150.9/92$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 387.839 ± 0.101 $\chi^2/\text{NDF}: 1266874.5/19$

Left Out: 174.648 ± 0.029 $\chi^2/\text{NDF}: 1531999.5/24$

Right Out: 428.609 ± 0.098 $\chi^2/\text{NDF}: 1732686.1/24$

Left In: 174.288 ± 0.030 $\chi^2/\text{NDF}: 1344779.5/22$

Left: 174.472 ± 0.021 $\chi^2/\text{NDF}: 2876851.9/47$

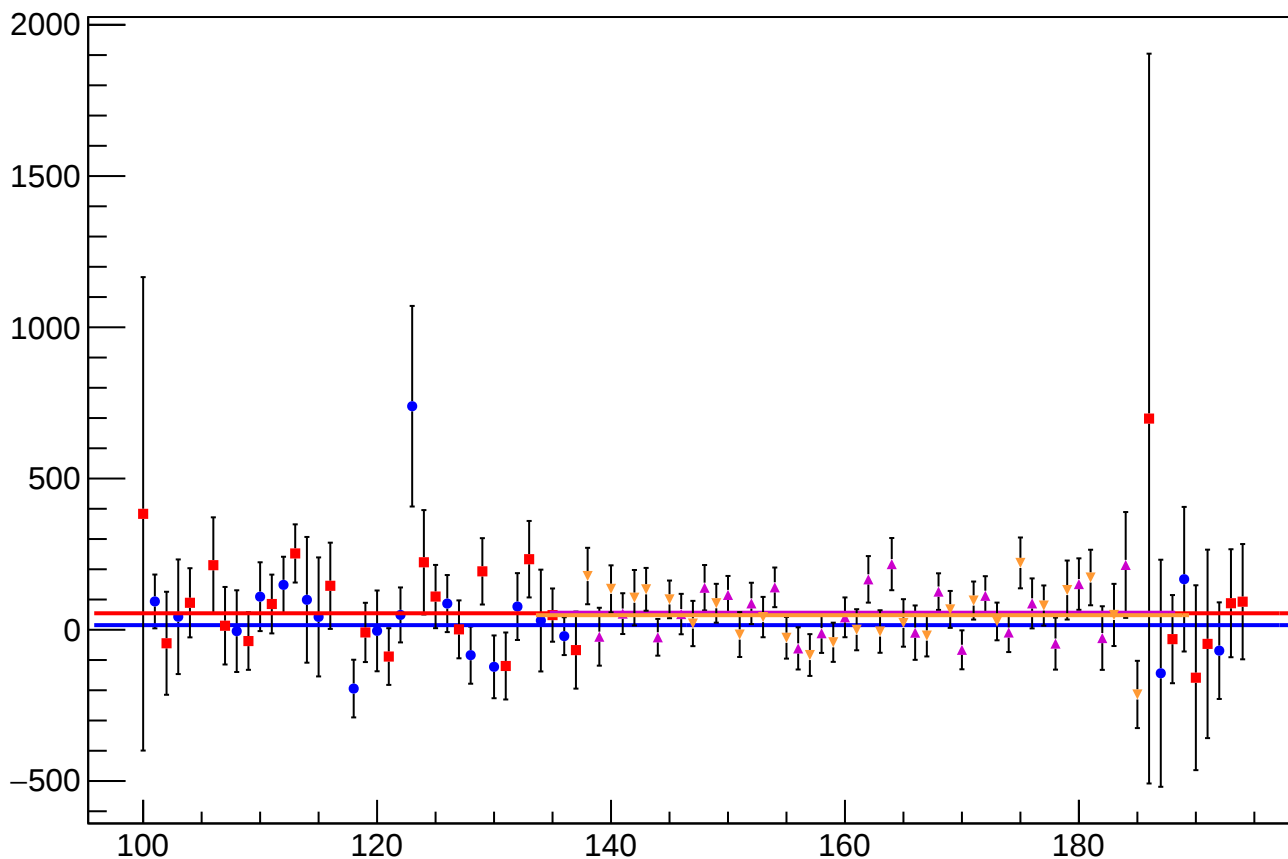
Right: 408.835 ± 0.070 $\chi^2/\text{NDF}: 3083802.2/44$

In: 191.817 ± 0.029 $\chi^2/\text{NDF}: 6731414.0/42$

Out: 195.741 ± 0.028 $\chi^2/\text{NDF}: 9444271.8/49$

All: 193.826 ± 0.020 $\chi^2/\text{NDF}: 16185138.3/92$

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 15.323+/-25.810 χ^2/NDF : 18.4/19

Left Out: 48.233+/-14.616 χ^2/NDF : 29.3/24

Right Out: 54.539+/-25.118 χ^2/NDF : 20.0/24

Left In: 56.403+/-15.182 χ^2/NDF : 27.5/22

Left: 52.163+/-10.529 χ^2/NDF : 56.9/47

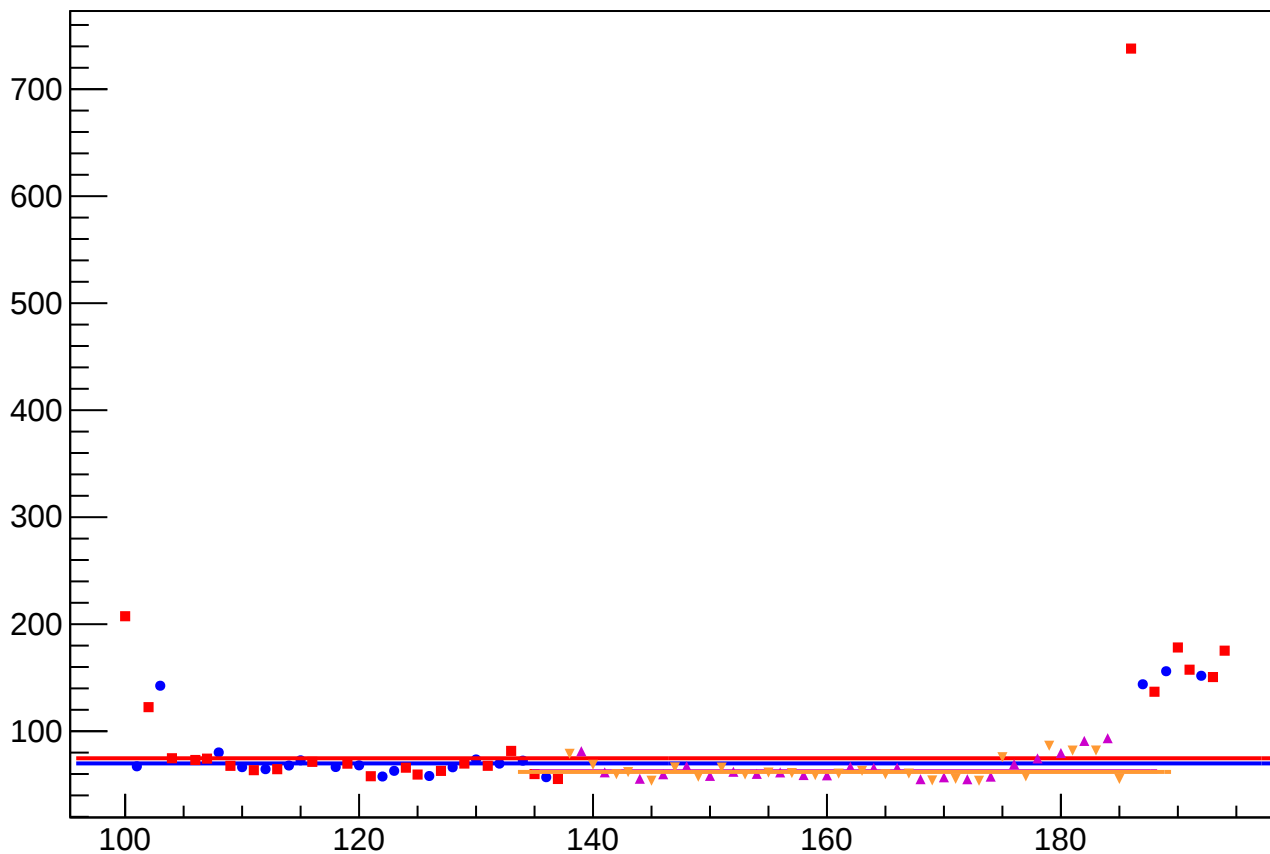
Right: 35.463+/-18.001 χ^2/NDF : 39.6/44

In: 45.843+/-13.086 χ^2/NDF : 47.8/42

Out: 49.828+/-12.633 χ^2/NDF : 49.3/49

All: 47.906+/-9.089 χ^2/NDF : 97.1/92

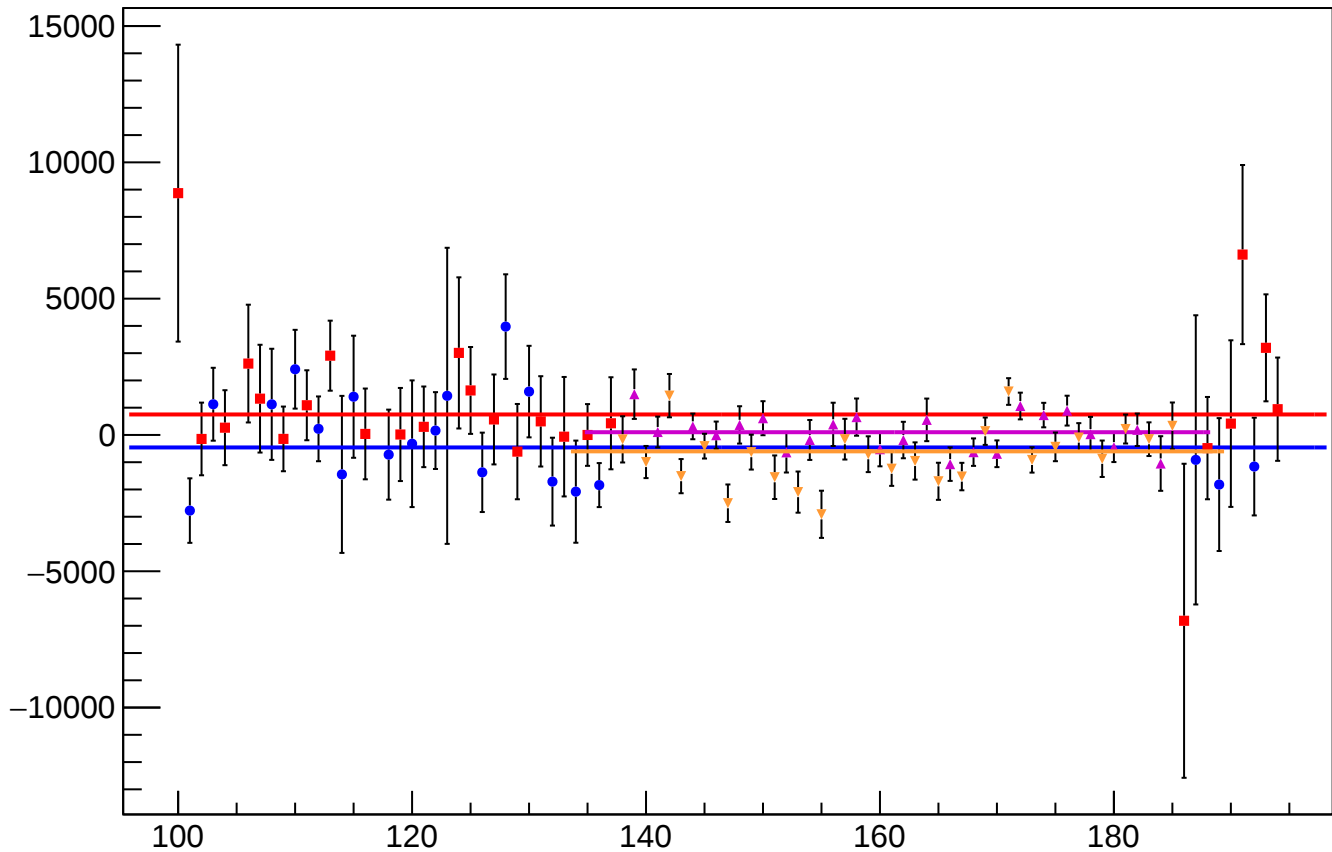
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 69.901+/-0.018 χ^2/NDF : 1341424.5/19
 Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24
 Right Out: 74.696+/-0.018 χ^2/NDF : 2801677.2/24
 Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47
 Right: 72.364+/-0.013 χ^2/NDF : 4178556.8/44
 In: 64.482+/-0.009 χ^2/NDF : 2035607.6/42
 Out: 65.171+/-0.009 χ^2/NDF : 3791619.4/49
 All: 64.839+/-0.006 χ^2/NDF : 5830099.0/92

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -458.245+/-355.164 χ^2/NDF : 23.2/19

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 751.696+/-339.929 χ^2/NDF : 16.7/24

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

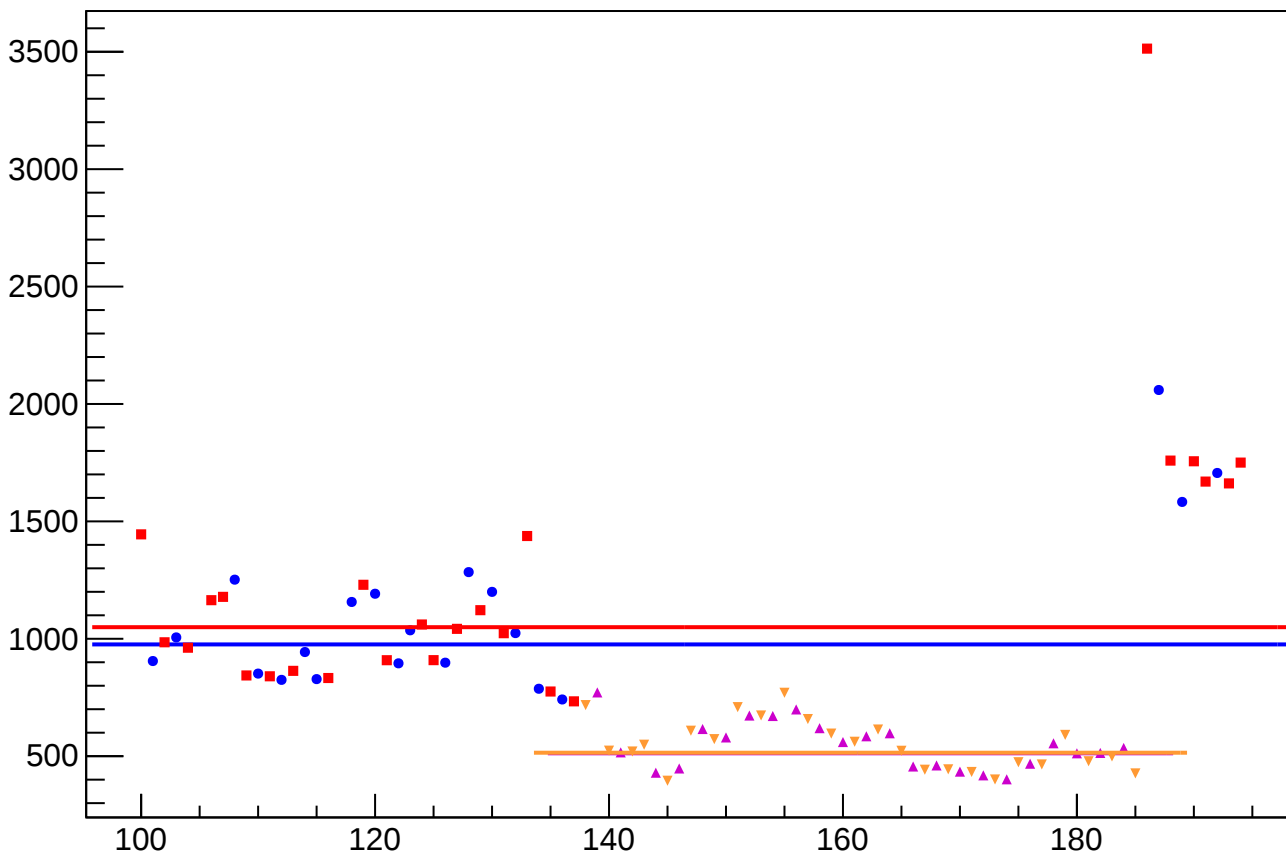
Right: 173.232+/-245.575 χ^2/NDF : 46.0/44

In: 39.201+/-117.679 χ^2/NDF : 50.9/42

Out: -446.808+/-114.927 χ^2/NDF : 96.1/49

All: -209.553+/-82.222 χ^2/NDF : 155.8/92

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 975.973+/-0.251 χ^2/NDF : 971668.0/19

Left Out: 514.758+/-0.086 χ^2/NDF : 1194945.9/24

Right Out: 1049.380+/-0.240 χ^2/NDF : 1834849.6/24

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

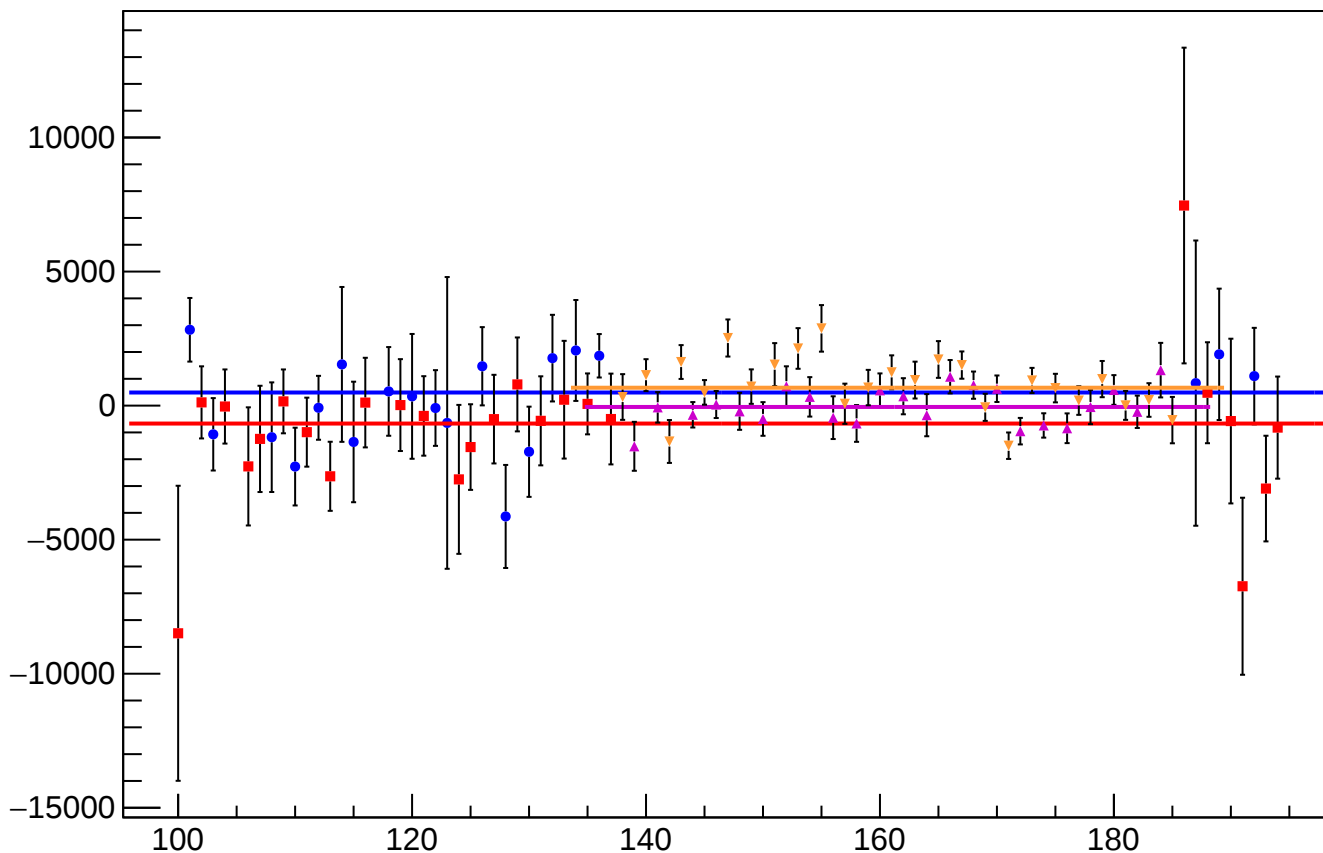
Right: 1014.284+/-0.174 χ^2/NDF : 2851107.8/44

In: 563.114+/-0.083 χ^2/NDF : 5048814.0/42

Out: 575.868+/-0.081 χ^2/NDF : 7411376.4/49

All: 569.642+/-0.058 χ^2/NDF : 12472214.2/92

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 488.918+/-356.397 χ^2/NDF : 23.4/19

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -668.952+/-341.325 χ^2/NDF : 15.8/24

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

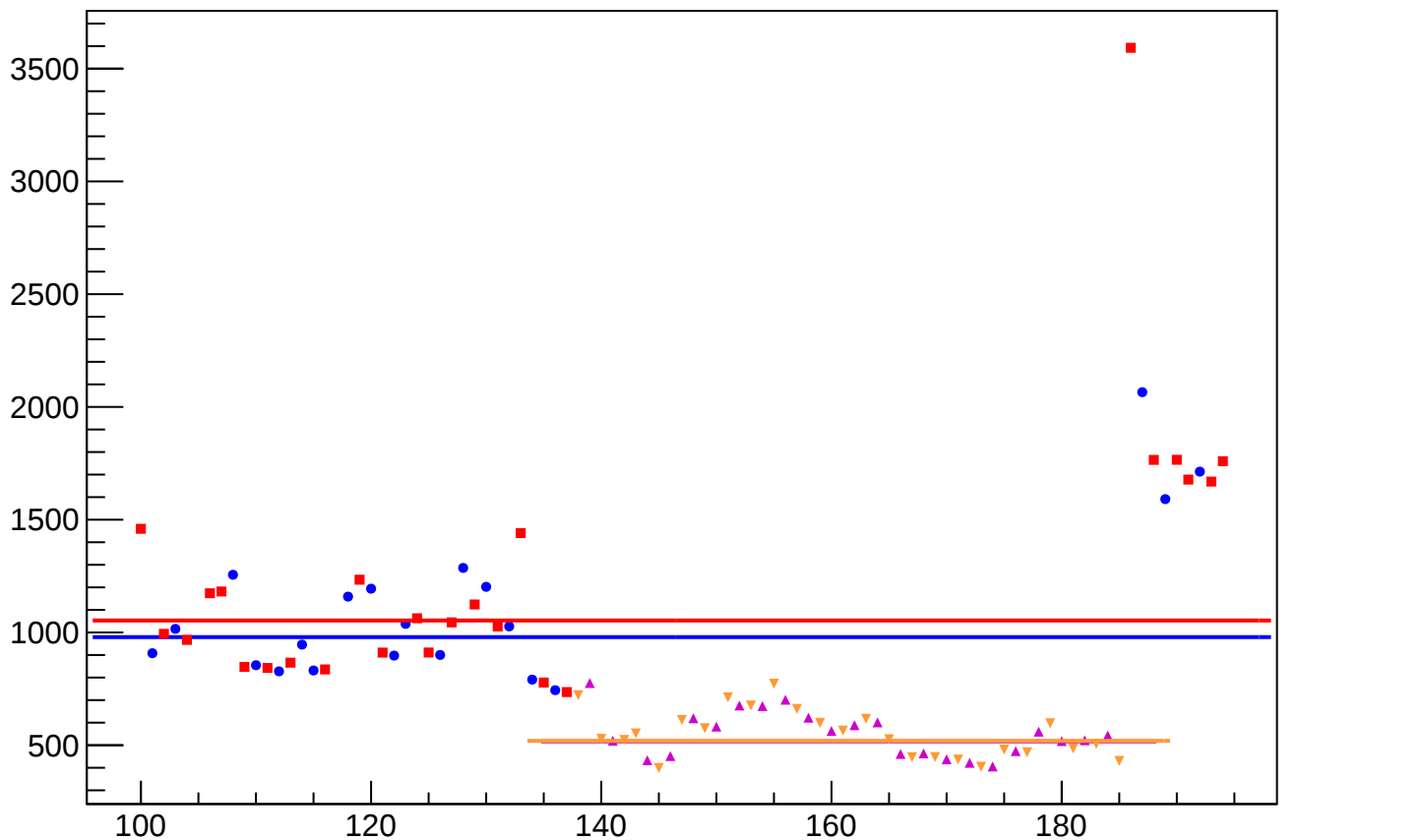
Right: -115.016+/-246.509 χ^2/NDF : 44.7/44

In: 9.641+/-118.631 χ^2/NDF : 51.5/42

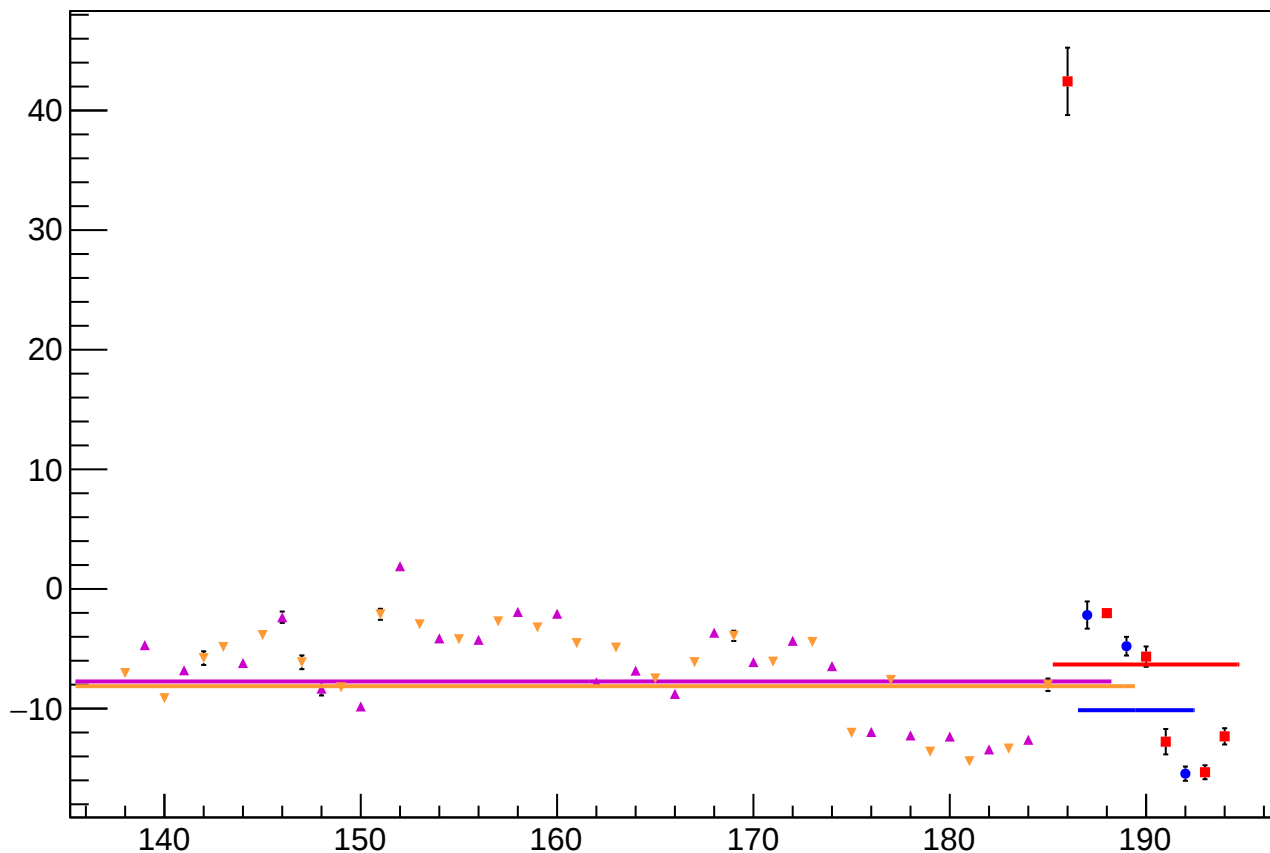
Out: 513.684+/-115.837 χ^2/NDF : 90.9/49

All: 267.668+/-82.879 χ^2/NDF : 151.6/92

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.135 ± 0.438 $\chi^2/\text{NDF}: 174.9/2$

Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$

Right Out: -6.313 ± 0.247 $\chi^2/\text{NDF}: 815.8/5$

Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$

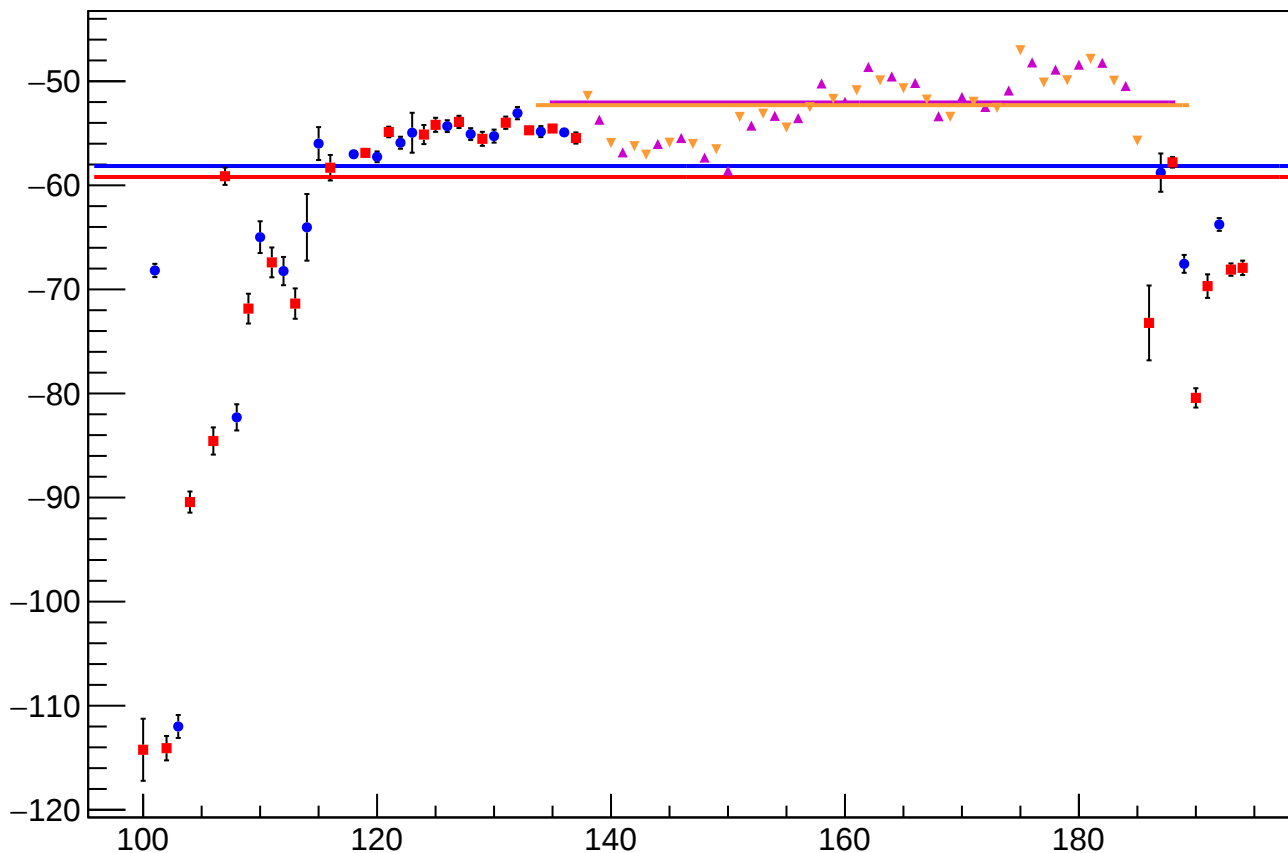
Right: -7.239 ± 0.215 $\chi^2/\text{NDF}: 1048.6/8$

In: -7.790 ± 0.068 $\chi^2/\text{NDF}: 3923.4/25$

Out: -8.002 ± 0.065 $\chi^2/\text{NDF}: 4501.4/30$

All: -7.901 ± 0.047 $\chi^2/\text{NDF}: 8429.8/56$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.146 ± 0.137 $\chi^2/\text{NDF}: 3678.0/19$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -59.200 ± 0.129 $\chi^2/\text{NDF}: 5822.9/24$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

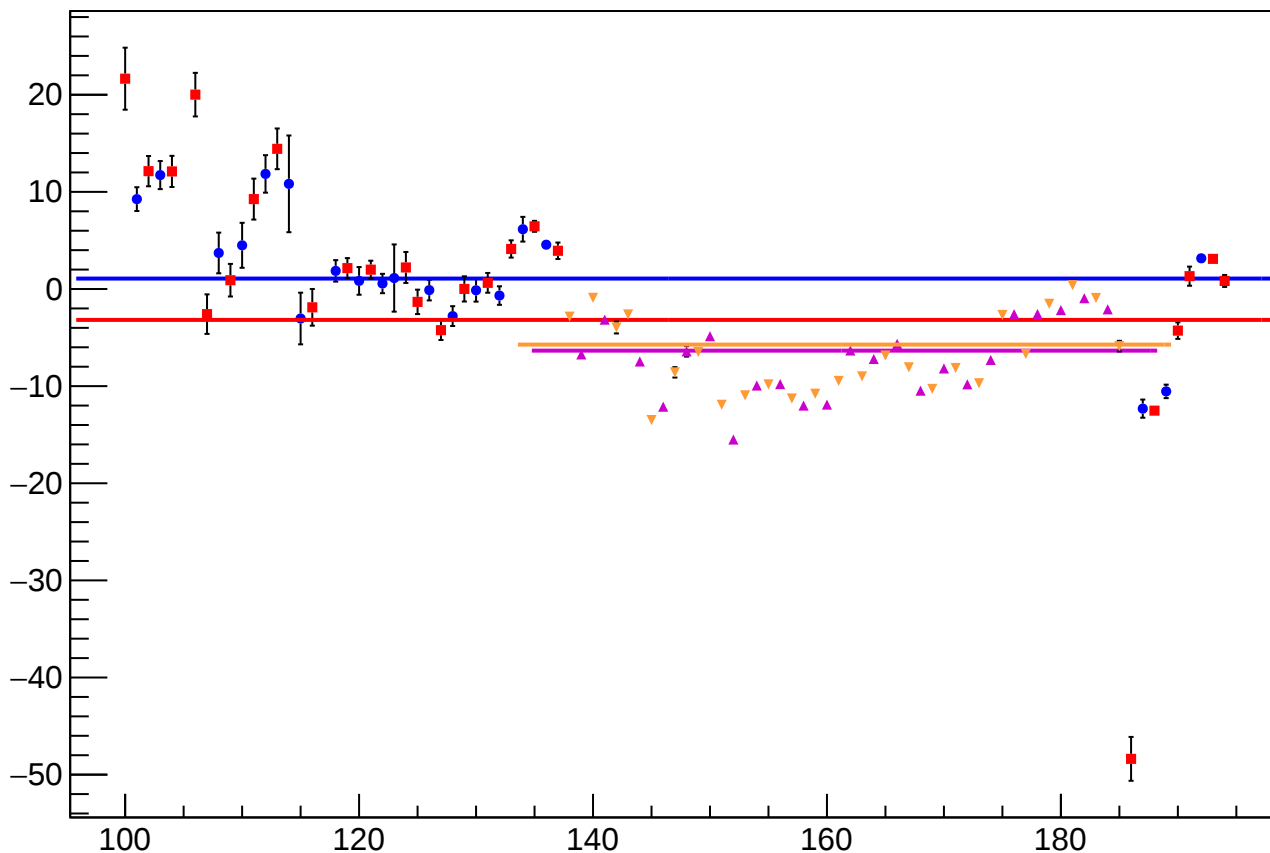
Right: -58.704 ± 0.094 $\chi^2/\text{NDF}: 9532.2/44$

In: -52.941 ± 0.053 $\chi^2/\text{NDF}: 8546.0/42$

Out: -53.354 ± 0.051 $\chi^2/\text{NDF}: 10888.5/49$

All: -53.156 ± 0.037 $\chi^2/\text{NDF}: 19466.4/92$

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



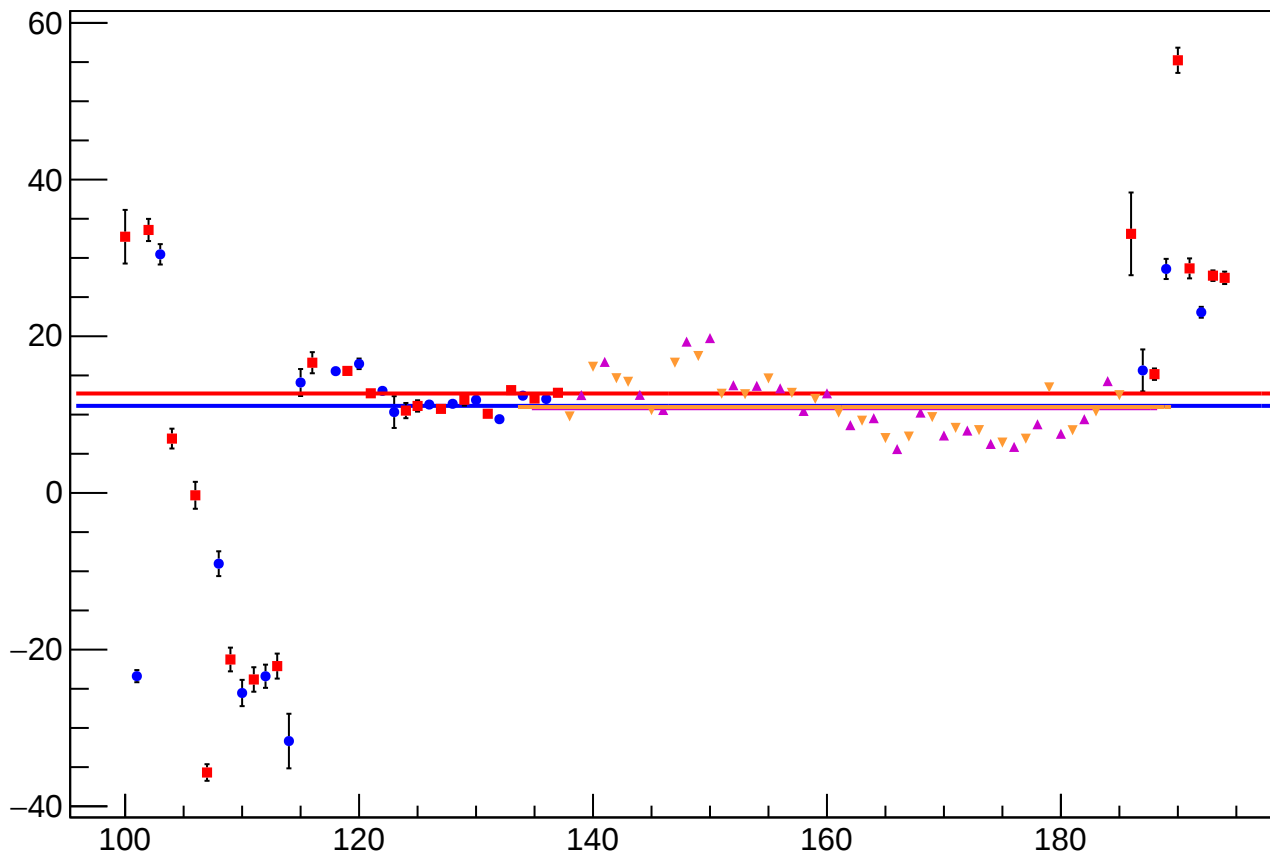
Right In: 1.075 ± 0.214 $\chi^2/\text{NDF}: 752.7/19$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -3.181 ± 0.165 $\chi^2/\text{NDF}: 2785.5/24$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -1.590 ± 0.131 $\chi^2/\text{NDF}: 3785.4/44$

In: -5.653 ± 0.065 $\chi^2/\text{NDF}: 5224.8/42$
 Out: -5.359 ± 0.063 $\chi^2/\text{NDF}: 6970.6/49$

All: -5.499 ± 0.045 $\chi^2/\text{NDF}: 12206.0/92$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.116 $\pm$ 0.153 χ^2 /NDF: 4197.1/19

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF:2637.7/24

Right Out: 12.695 $\pm$ 0.148 χ^2 /NDF: 5757.0/24

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF:3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

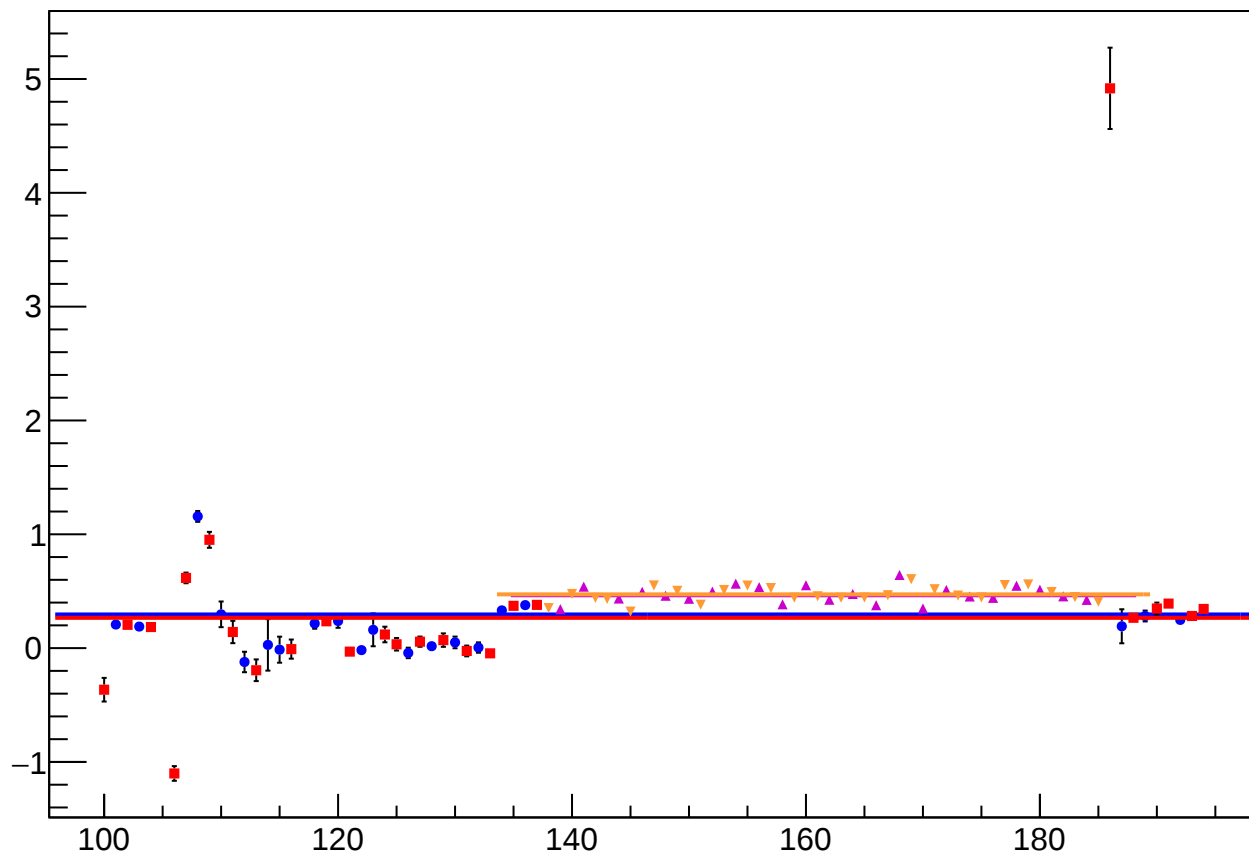
Right: 11.931 $\pm$ 0.106 χ^2 /NDF: 10009.1/44

In: 10.857 $\pm$ 0.058 χ^2 /NDF:7747.3/42

Out: 11.221 $\pm$ 0.057 χ^2 /NDF:8510.9/49

All: 11.044 $\pm$ 0.041 χ^2 /NDF: 16278.1/92

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.296 $\pm$ 0.008 χ^2 /NDF: 653.3/19

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF:519.0/24

Right Out: 0.266 $\pm$ 0.007 χ^2 /NDF: 1189.2/24

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF:733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

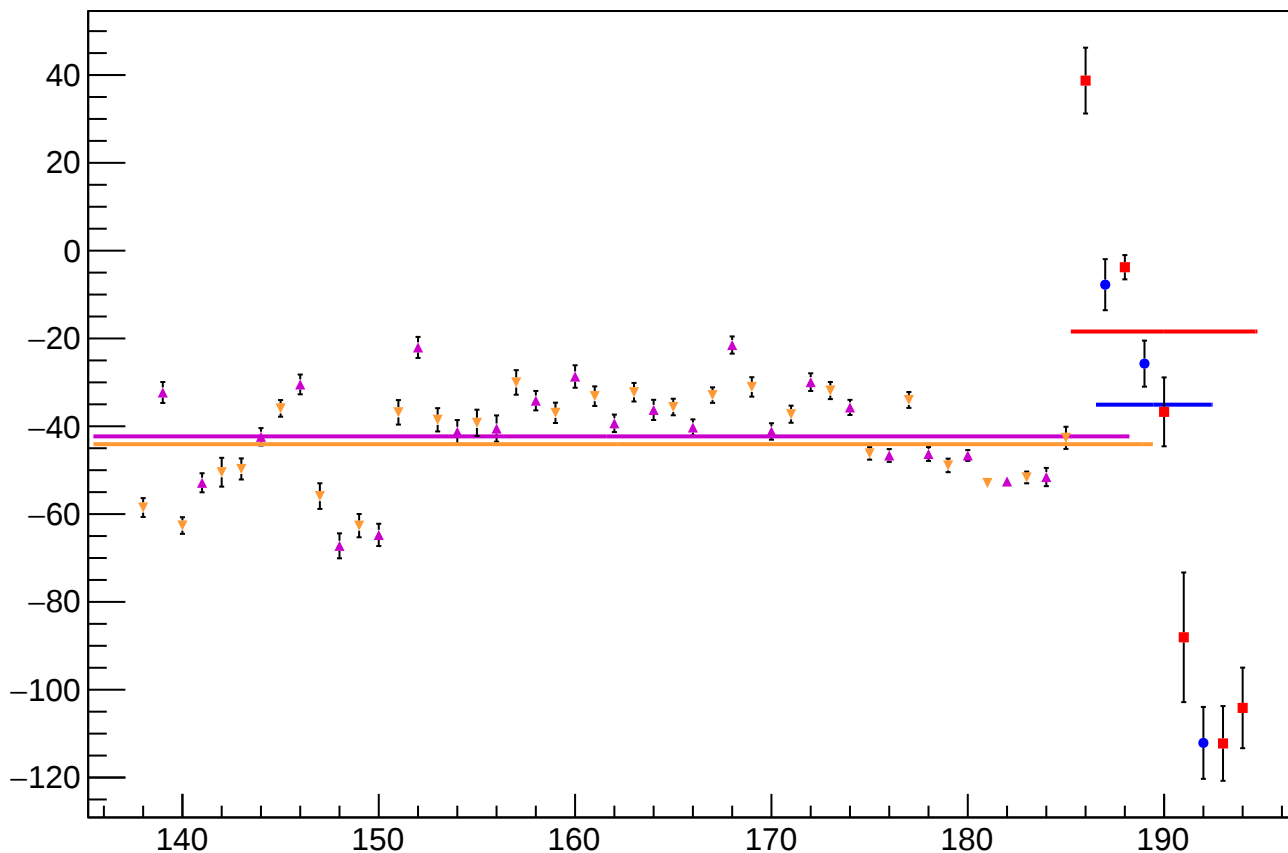
Right: 0.280 $\pm$ 0.005 χ^2 /NDF: 1850.6/44

In: 0.444 $\pm$ 0.003 χ^2 /NDF:1821.5/42

Out: 0.445 $\pm$ 0.003 χ^2 /NDF:2447.0/49

All: 0.445 $\pm$ 0.002 χ^2 /NDF: 4268.6/92

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.080 ± 3.517 $\chi^2/\text{NDF}: 113.7/2$

Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$

Right Out: -18.417 ± 2.264 $\chi^2/\text{NDF}: 322.7/5$

Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$

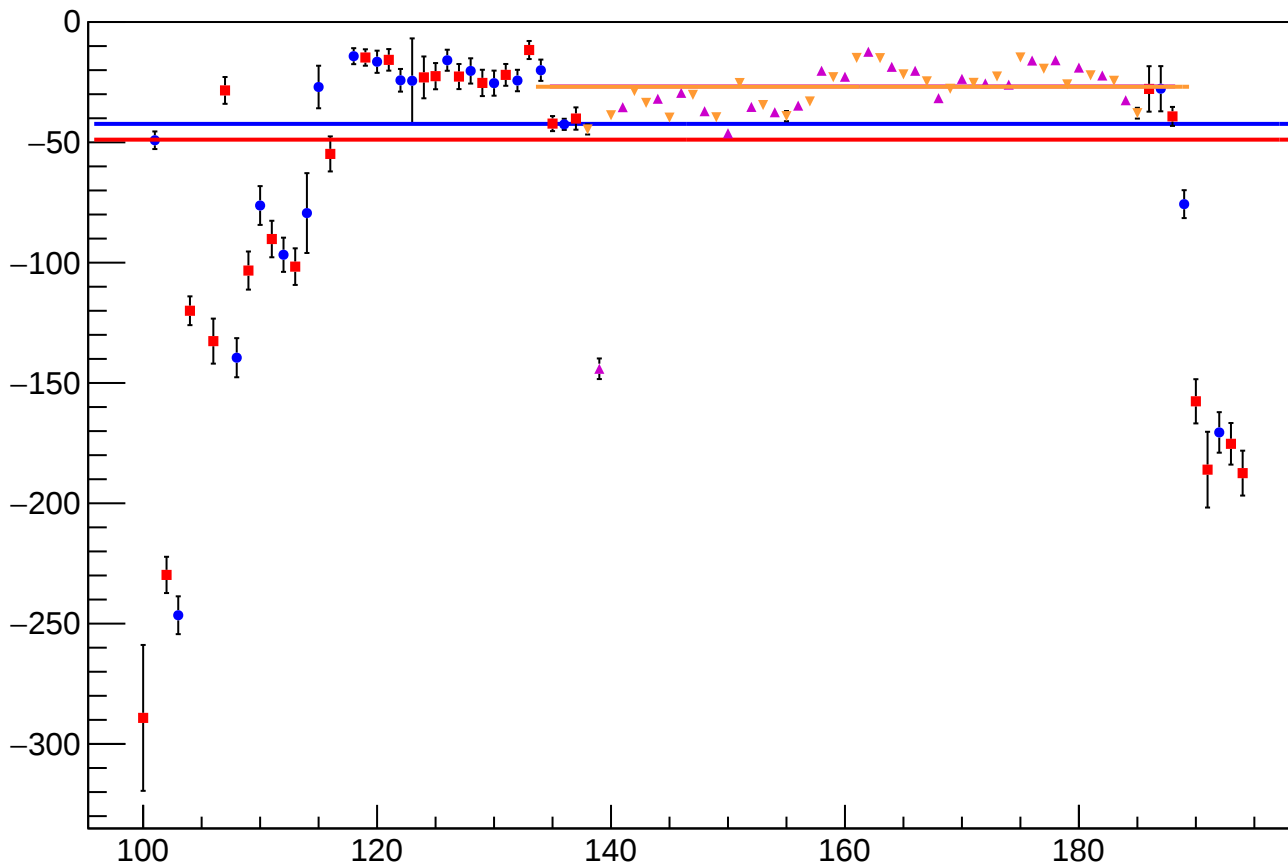
Right: -23.300 ± 1.904 $\chi^2/\text{NDF}: 452.3/8$

In: -42.212 ± 0.397 $\chi^2/\text{NDF}: 758.5/25$

Out: -43.343 ± 0.383 $\chi^2/\text{NDF}: 1080.1/30$

All: -42.797 ± 0.276 $\chi^2/\text{NDF}: 1842.8/56$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -42.333 ± 1.110 $\chi^2/\text{NDF}: 1398.2/19$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -48.885 ± 1.120 $\chi^2/\text{NDF}: 2033.8/24$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

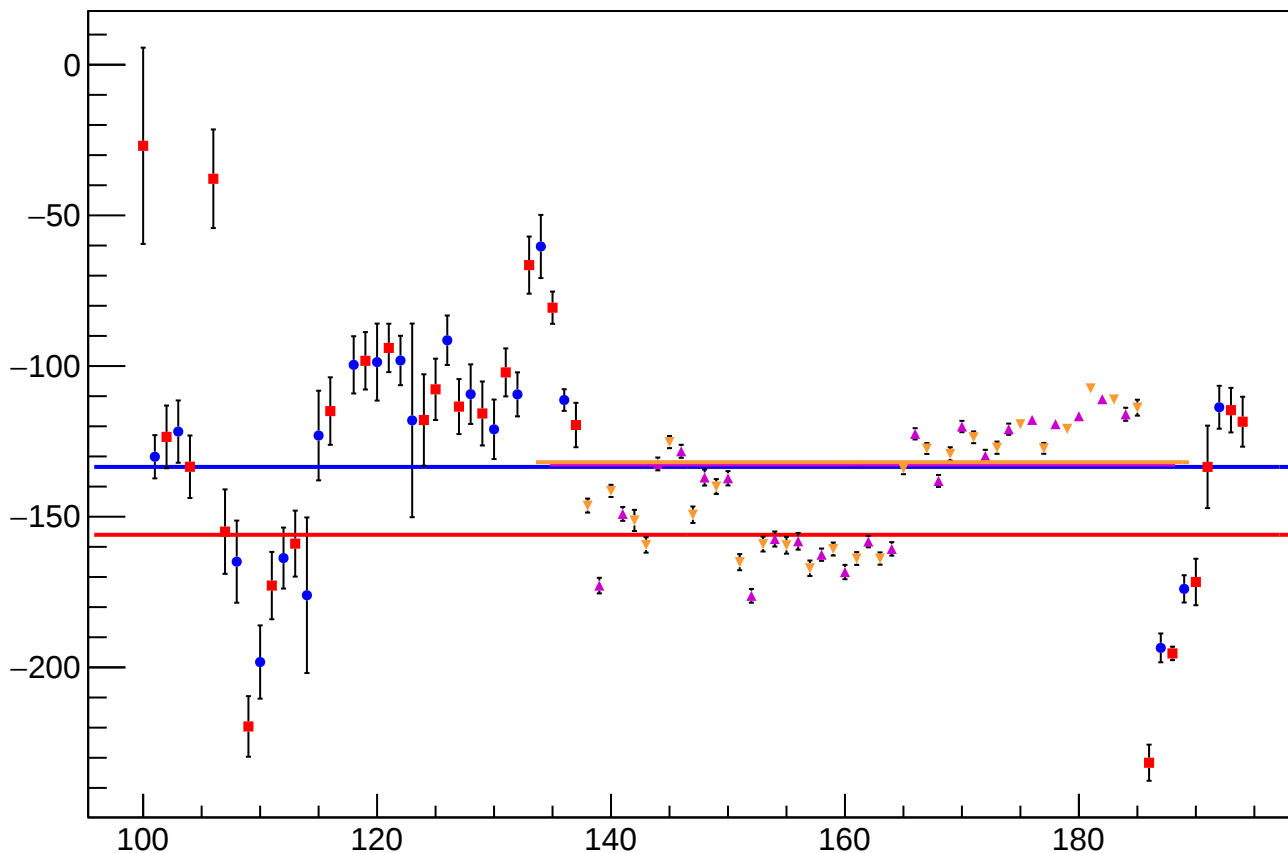
Right: -45.579 ± 0.788 $\chi^2/\text{NDF}: 3449.3/44$

In: -28.012 ± 0.313 $\chi^2/\text{NDF}: 2973.7/42$

Out: -28.525 ± 0.304 $\chi^2/\text{NDF}: 3021.6/49$

All: -28.276 ± 0.218 $\chi^2/\text{NDF}: 5996.6/92$

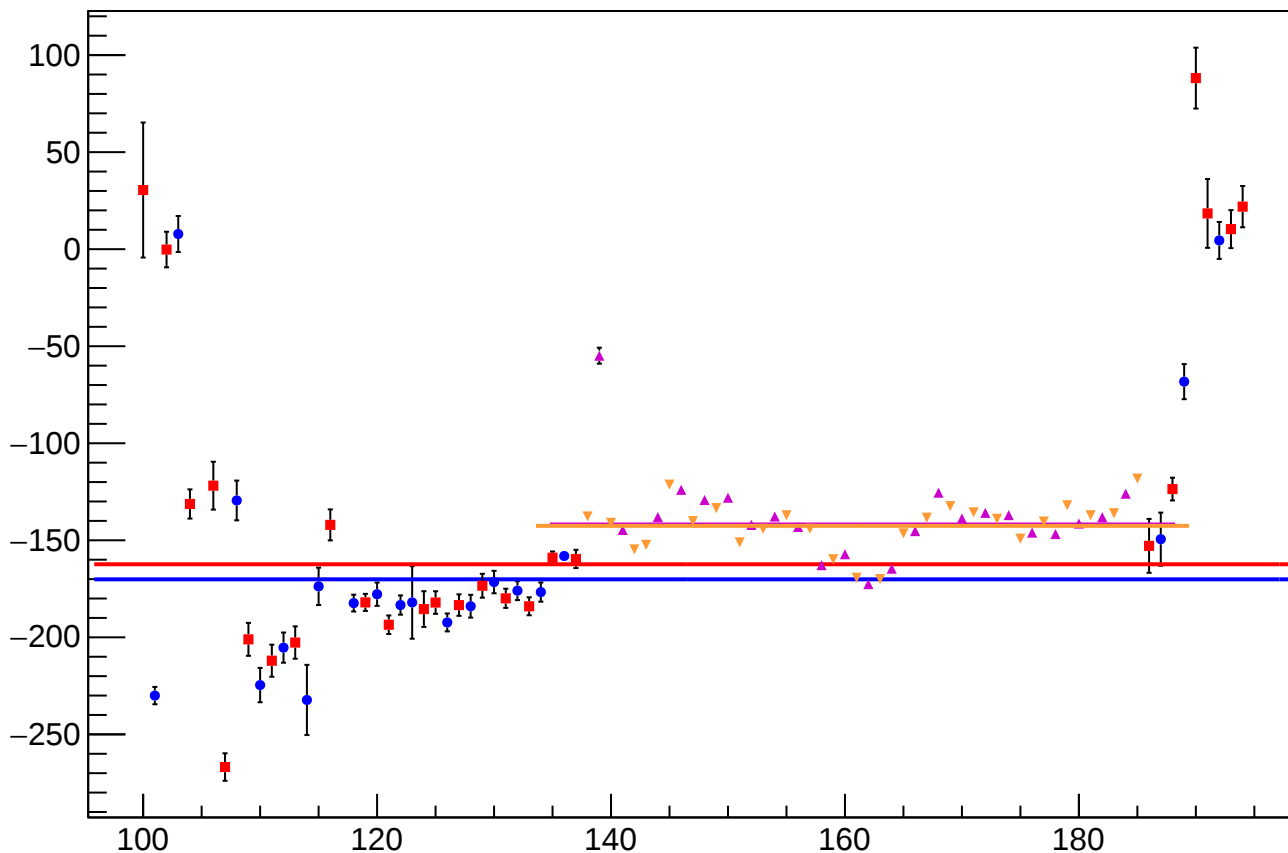
reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -133.471 $\pm$ 1.708 χ^2 /NDF: 463.4/19
 Left Out: -131.912 $\pm$ 0.391 χ^2 /NDF:2439.3/24
 Right Out: -156.004 $\pm$ 1.431 χ^2 /NDF: 1186.8/24
 Left In: -132.690 $\pm$ 0.399 χ^2 /NDF:2480.2/22

Left: -132.293 $\pm$ 0.280 χ^2 /NDF: 4921.5/47
 Right: -146.712 $\pm$ 1.097 χ^2 /NDF: 1752.4/44
 In: -132.730 $\pm$ 0.389 χ^2 /NDF:2943.8/42
 Out: -133.589 $\pm$ 0.378 χ^2 /NDF:3889.7/49
 All: -133.172 $\pm$ 0.271 χ^2 /NDF: 6836.1/92

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -170.110 ± 1.250 $\chi^2/\text{NDF}: 1174.1/19$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -162.354 ± 1.288 $\chi^2/\text{NDF}: 1823.6/24$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

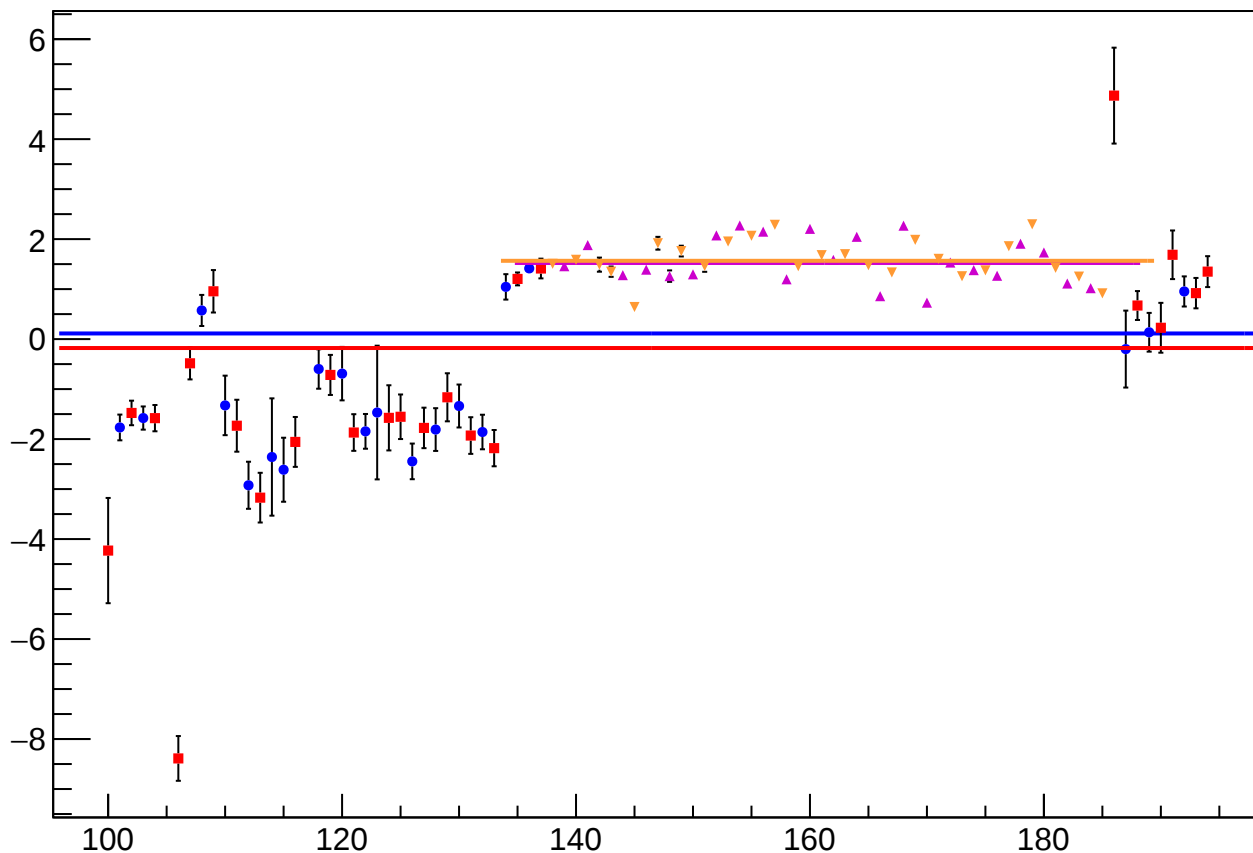
Right: -166.350 ± 0.897 $\chi^2/\text{NDF}: 3016.4/44$

In: -144.063 ± 0.349 $\chi^2/\text{NDF}: 3189.5/42$

Out: -143.953 ± 0.341 $\chi^2/\text{NDF}: 3190.7/49$

All: -144.007 ± 0.244 $\chi^2/\text{NDF}: 6380.2/92$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113 ± 0.064 χ^2/NDF : 533.5/19

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: -0.178 ± 0.065 χ^2/NDF : 854.2/24

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

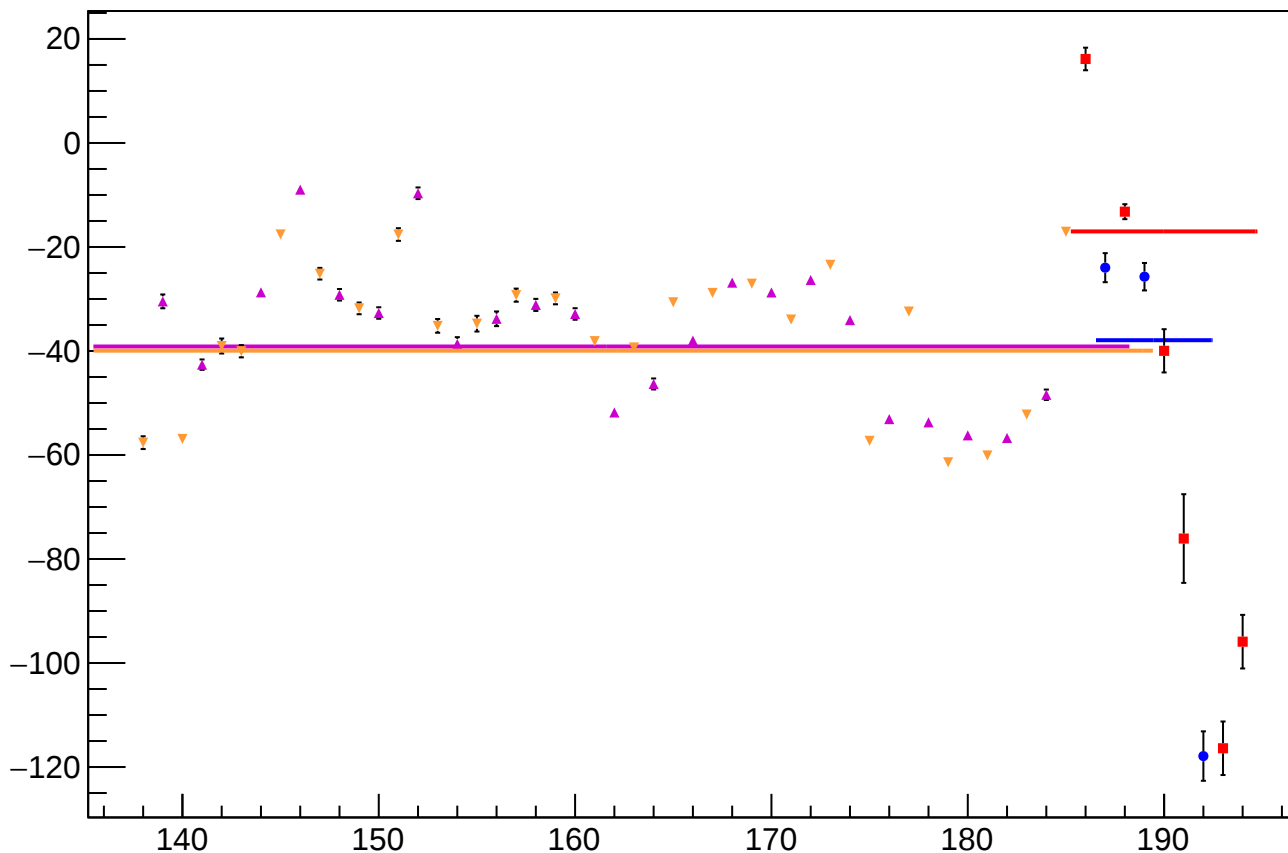
Right: -0.032 ± 0.046 χ^2/NDF : 1397.9/44

In: 1.436 ± 0.016 χ^2/NDF : 1721.5/42

Out: 1.464 ± 0.016 χ^2/NDF : 2081.0/49

All: 1.450 ± 0.011 χ^2/NDF : 3803.9/92

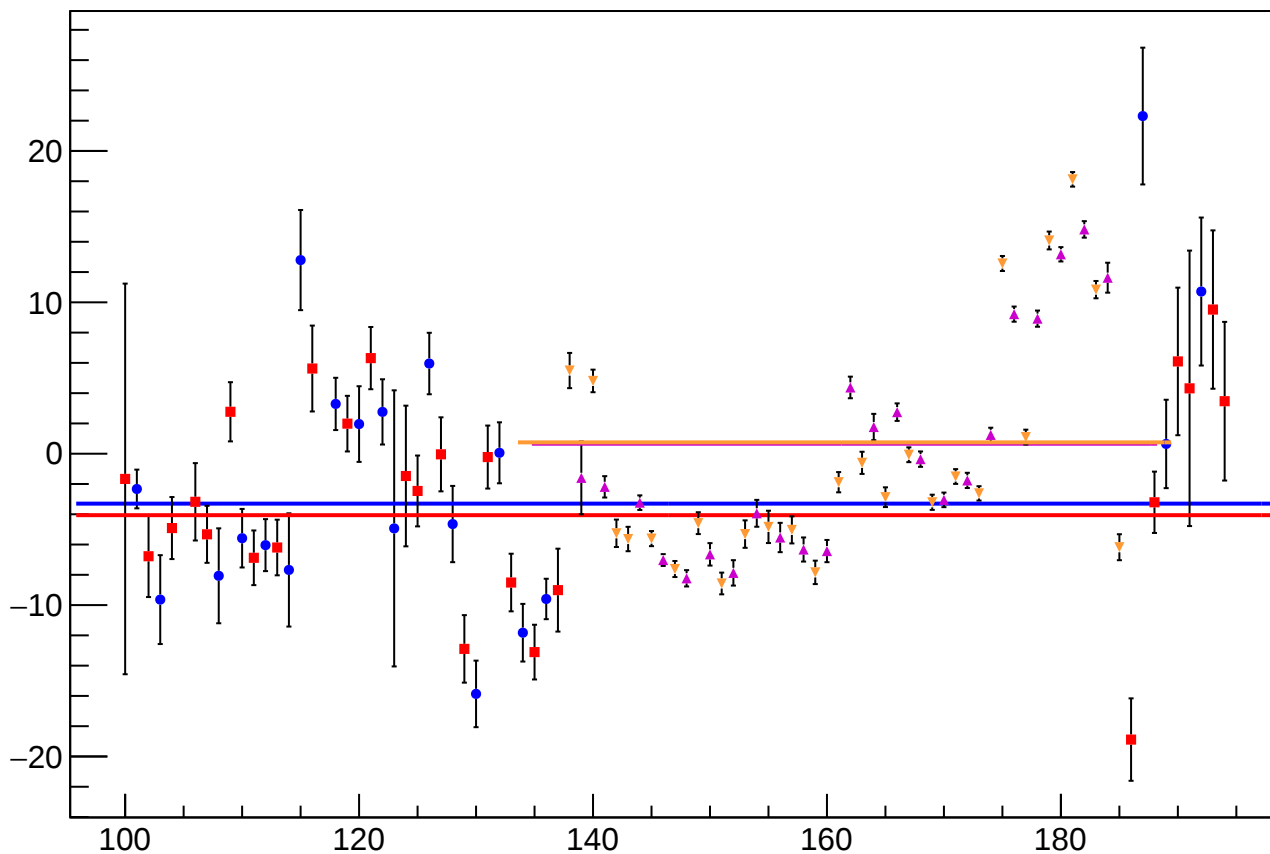
reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -37.927 ± 1.779 $\chi^2/\text{NDF}: 329.3/2$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -17.009 ± 1.090 $\chi^2/\text{NDF}: 925.6/5$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$
 Right: -22.718 ± 0.930 $\chi^2/\text{NDF}: 1355.4/8$
 In: -39.128 ± 0.154 $\chi^2/\text{NDF}: 8864.3/25$
 Out: -39.491 ± 0.152 $\chi^2/\text{NDF}: 11165.7/30$
 All: -39.312 ± 0.108 $\chi^2/\text{NDF}: 20032.8/56$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.297 ± 0.487 $\chi^2/\text{NDF}: 204.4/19$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -4.060 ± 0.477 $\chi^2/\text{NDF}: 165.9/24$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

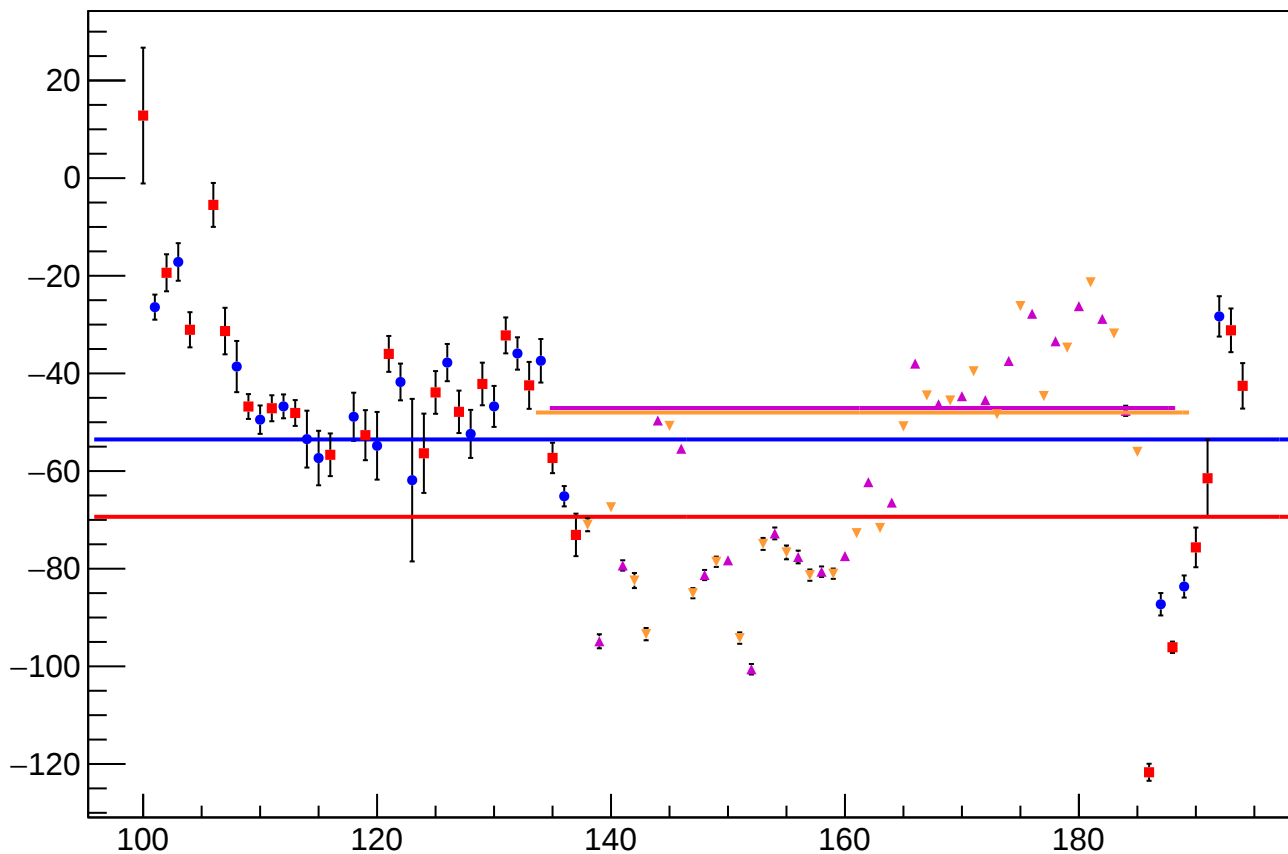
Right: -3.686 ± 0.341 $\chi^2/\text{NDF}: 371.6/44$

In: 0.418 ± 0.120 $\chi^2/\text{NDF}: 3604.3/42$

Out: 0.444 ± 0.120 $\chi^2/\text{NDF}: 4231.8/49$

All: 0.431 ± 0.085 $\chi^2/\text{NDF}: 7836.1/92$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.522 ± 0.762 χ^2/NDF : 752.0/19

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -69.369 ± 0.628 χ^2/NDF : 2690.4/24

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

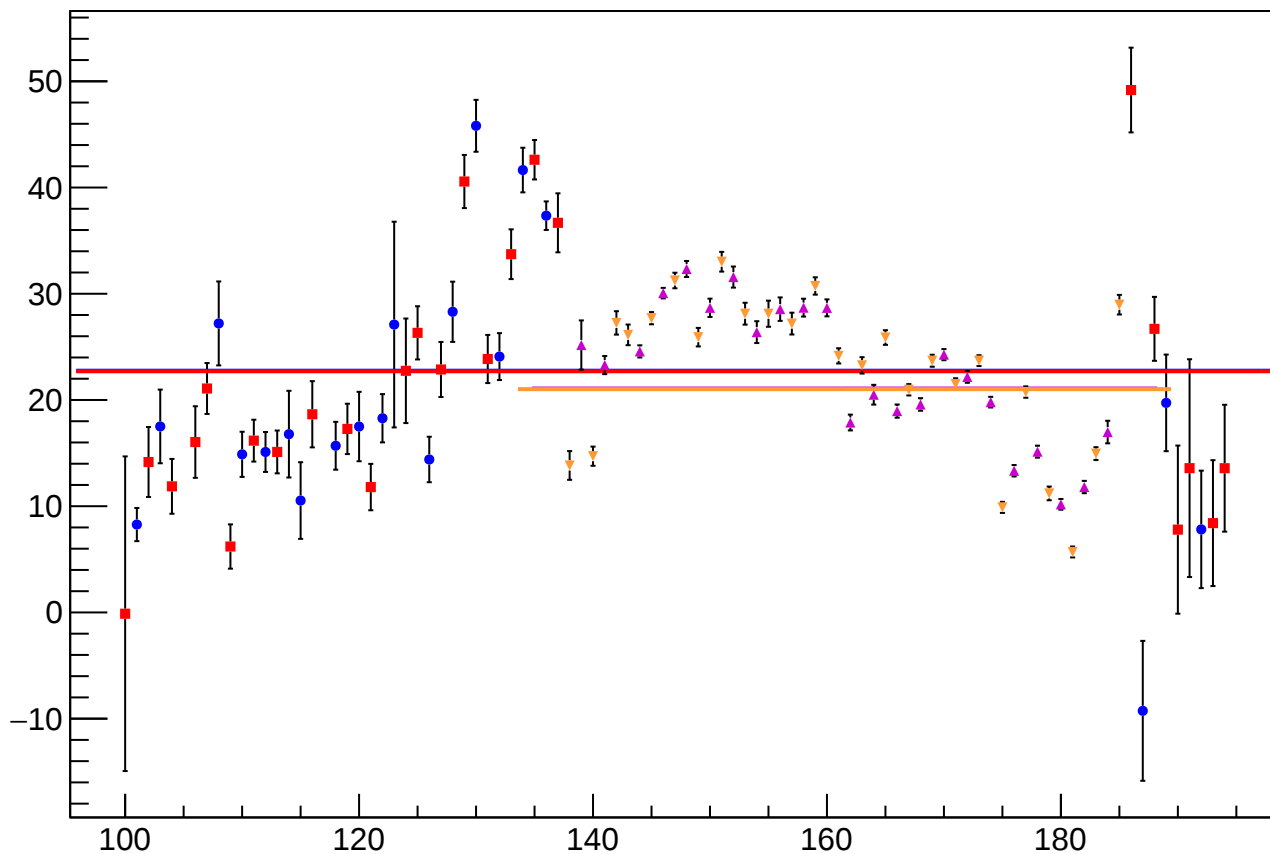
Right: -62.968 ± 0.485 χ^2/NDF : 3699.9/44

In: -47.341 ± 0.152 χ^2/NDF : 16335.7/42

Out: -49.230 ± 0.150 χ^2/NDF : 20732.3/49

All: -48.299 ± 0.107 χ^2/NDF : 37146.0/92

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.755 $\pm$ 0.551 χ^2 /NDF: 488.9/19

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.704 $\pm$ 0.551 χ^2 /NDF: 425.0/24

Left In: 21.079 $\pm$ 0.140 χ^2 /NDF:2173.2/22

Left: 21.049 $\pm$ 0.098 χ^2 /NDF: 4972.6/47

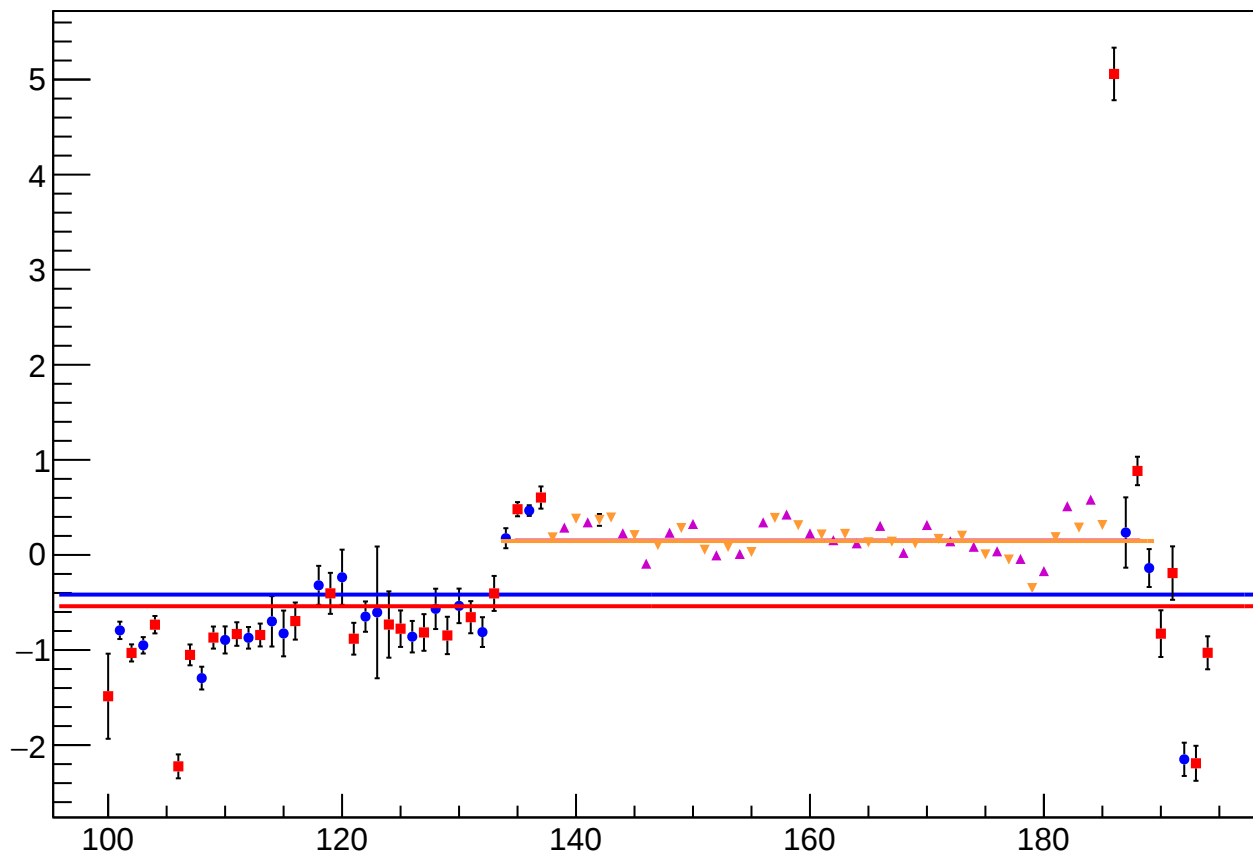
Right: 22.730 $\pm$ 0.390 χ^2 /NDF: 914.0/44

In: 21.180 $\pm$ 0.135 χ^2 /NDF:2670.8/42

Out: 21.120 $\pm$ 0.135 χ^2 /NDF:3233.1/49

All: 21.150 $\pm$ 0.095 χ^2 /NDF: 5904.0/92

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.417 ± 0.029 χ^2/NDF : 542.7/19

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.540 ± 0.028 χ^2/NDF : 1148.1/24

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

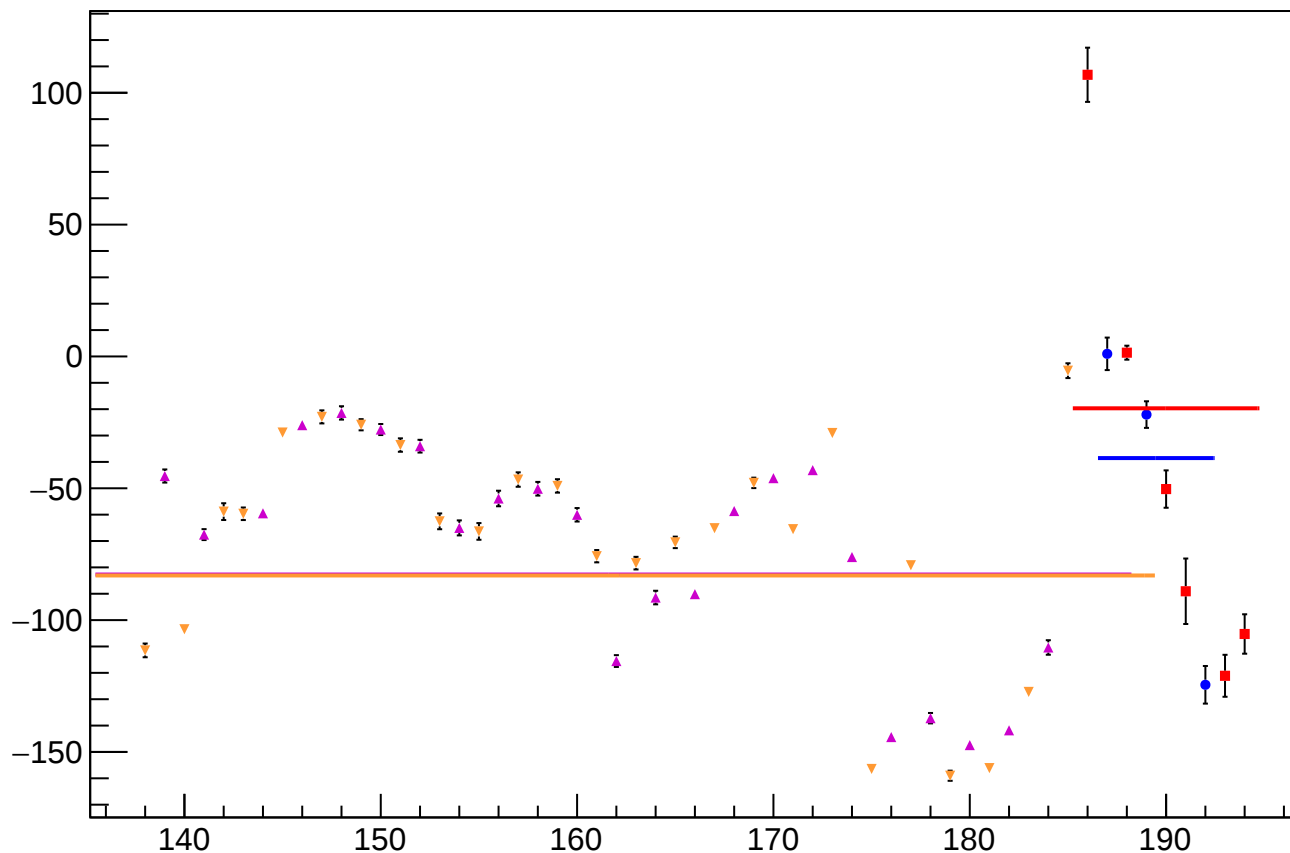
Right: -0.480 ± 0.020 χ^2/NDF : 1699.8/44

In: 0.125 ± 0.006 χ^2/NDF : 1771.3/42

Out: 0.114 ± 0.006 χ^2/NDF : 2314.8/49

All: 0.119 ± 0.004 χ^2/NDF : 4087.9/92

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.546 ± 3.424 χ^2/NDF : 197.1/2

Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24

Right Out: -19.669 ± 2.174 χ^2/NDF : 558.2/5

Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47

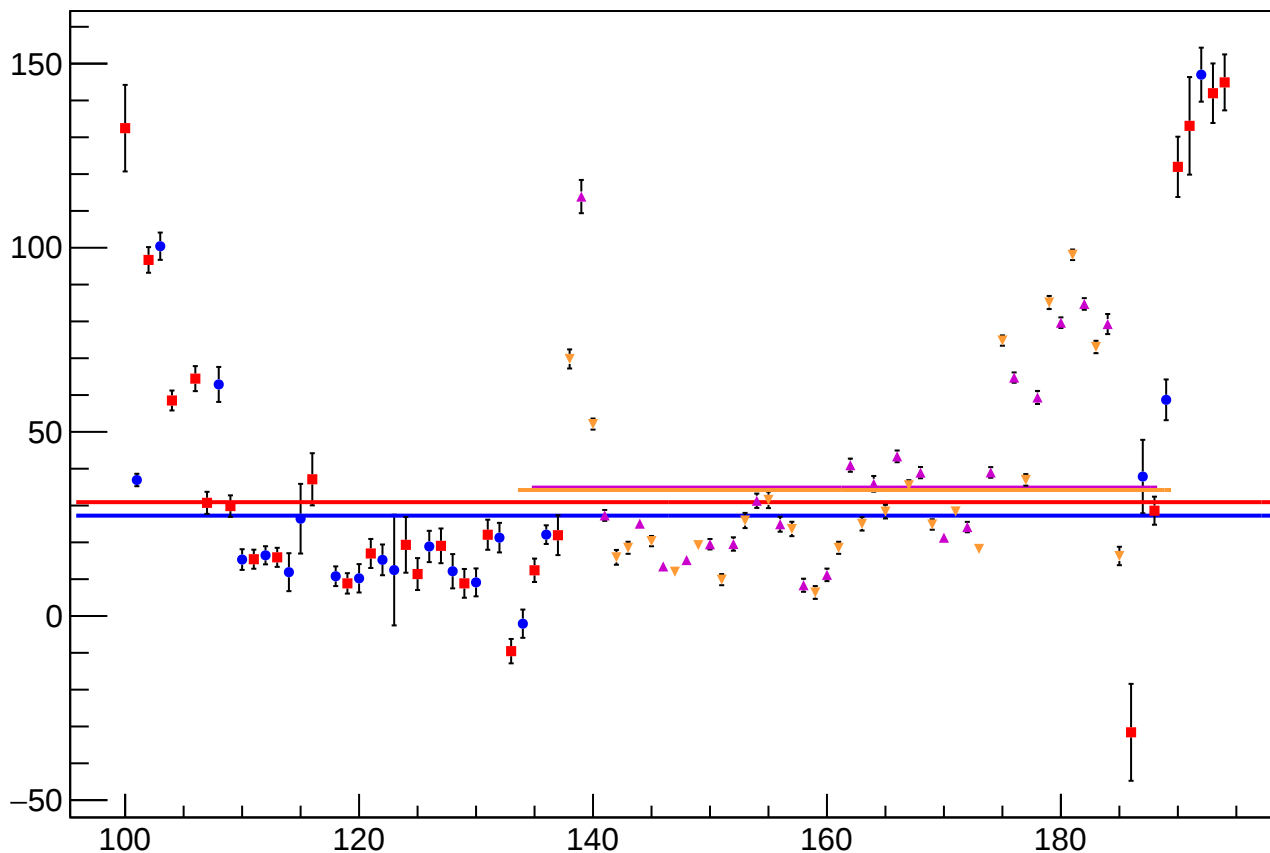
Right: -25.091 ± 1.835 χ^2/NDF : 776.9/8

In: -82.071 ± 0.412 χ^2/NDF : 11202.4/25

Out: -80.928 ± 0.399 χ^2/NDF : 15197.4/30

All: -81.481 ± 0.287 χ^2/NDF : 26403.8/56

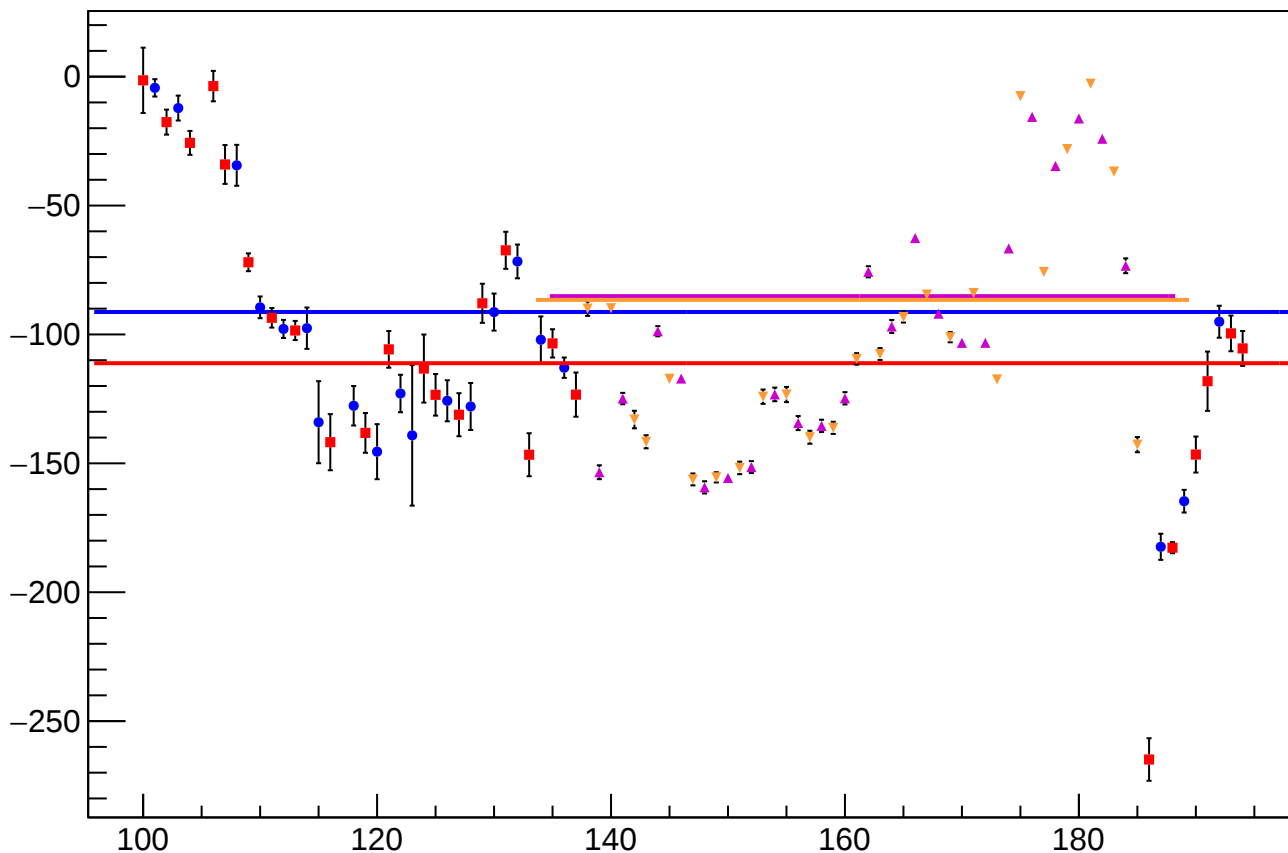
reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 27.254 ± 0.792 $\chi^2/\text{NDF}: 993.9/19$
 Left Out: 34.219 ± 0.320 $\chi^2/\text{NDF}: 6192.6/24$
 Right Out: 30.914 ± 0.779 $\chi^2/\text{NDF}: 1650.2/24$
 Left In: 34.870 ± 0.329 $\chi^2/\text{NDF}: 4716.1/22$

Left: 34.535 ± 0.230 $\chi^2/\text{NDF}: 10910.7/47$
 Right: 29.115 ± 0.555 $\chi^2/\text{NDF}: 2654.9/44$
 In: 33.747 ± 0.304 $\chi^2/\text{NDF}: 5788.9/42$
 Out: 33.741 ± 0.296 $\chi^2/\text{NDF}: 7858.2/49$
 All: 33.744 ± 0.212 $\chi^2/\text{NDF}: 13647.0/92$

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -91.285 ± 1.277 χ^2/NDF : 1744.5/19

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -111.154 ± 1.086 χ^2/NDF : 2972.6/24

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

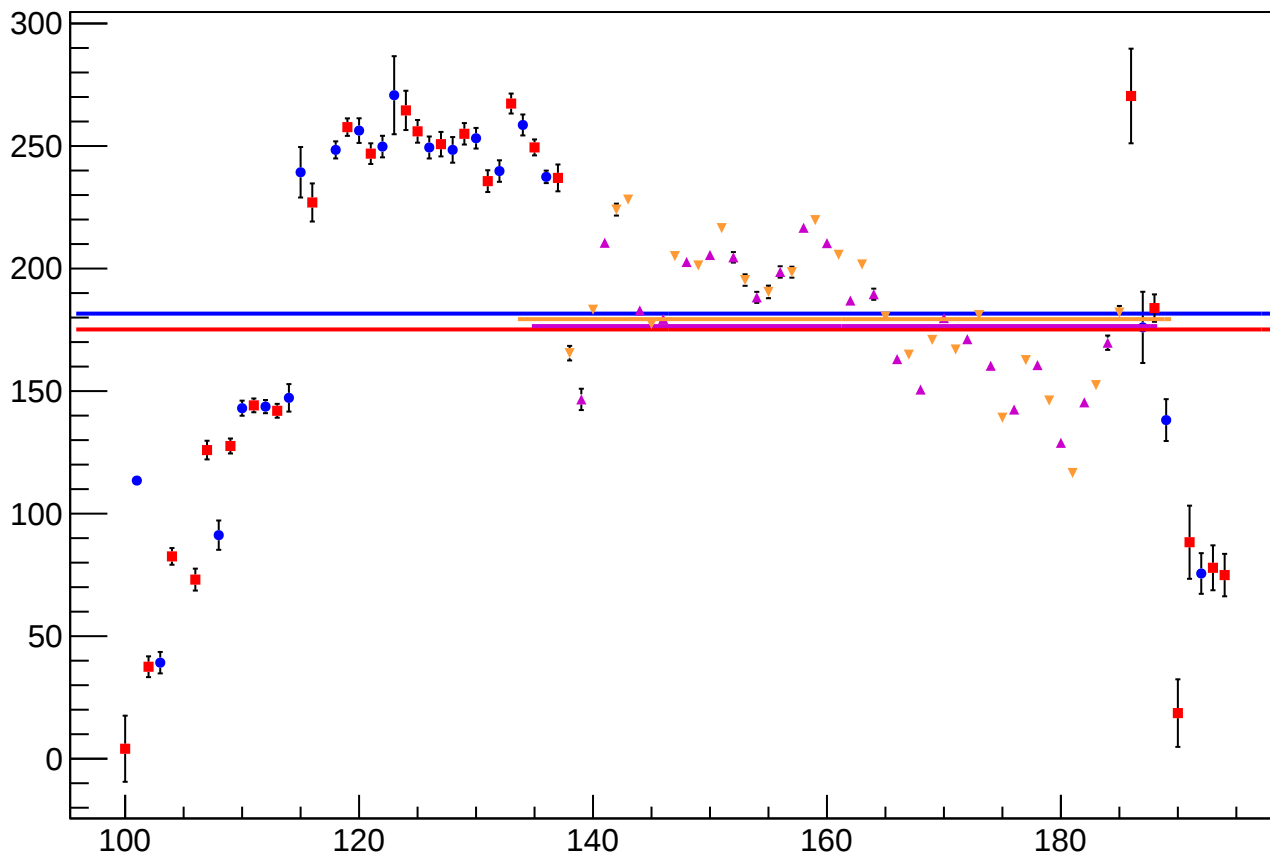
Right: -102.816 ± 0.827 χ^2/NDF : 4857.6/44

In: -85.722 ± 0.395 χ^2/NDF : 14606.7/42

Out: -89.640 ± 0.382 χ^2/NDF : 17936.5/49

All: -87.744 ± 0.275 χ^2/NDF : 32594.1/92

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 181.616 $\pm$ 0.908 χ^2 /NDF: 5511.7/19

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 175.152 $\pm$ 0.899 χ^2 /NDF: 6781.3/24

Left In: 176.531 $\pm$ 0.371 χ^2 /NDF: 4426.0/22

Left: 177.980 $\pm$ 0.259 χ^2 /NDF: 10438.0/47

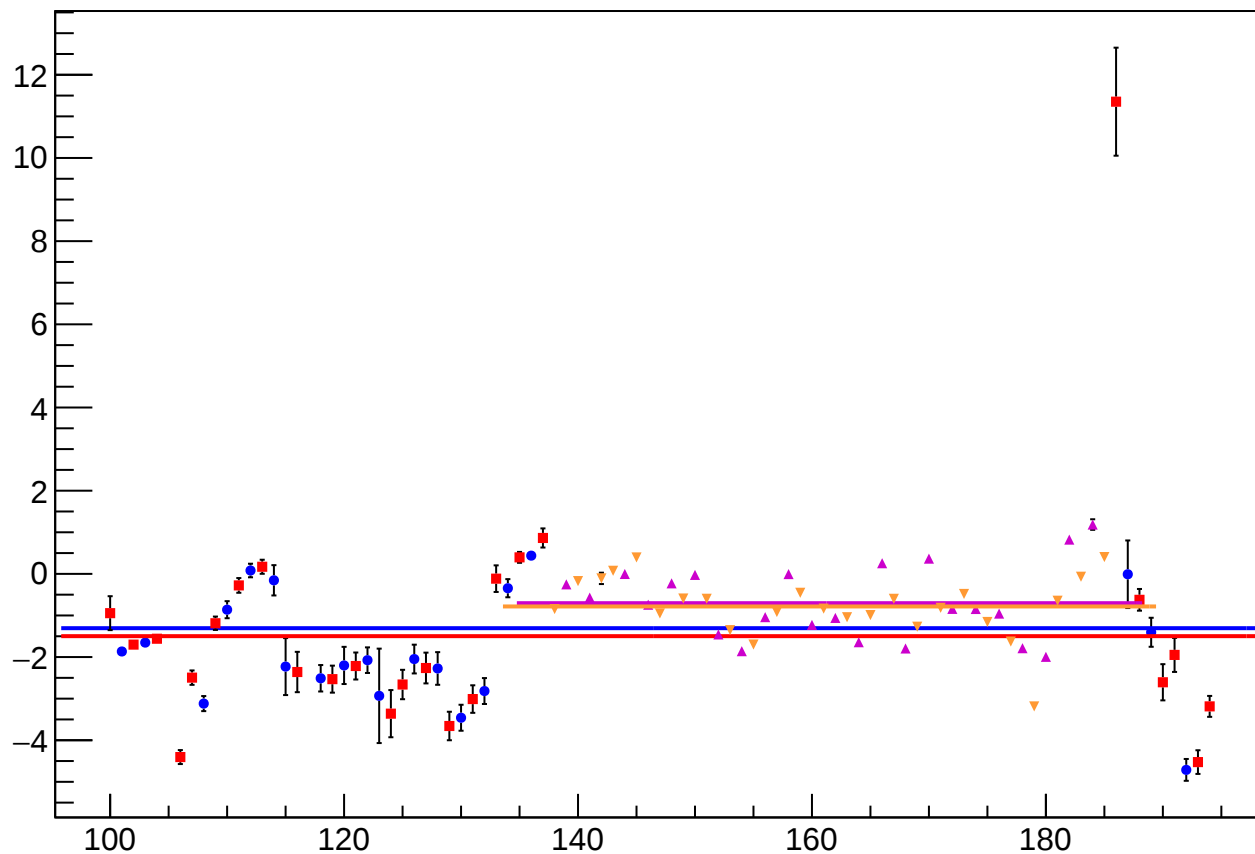
Right: 178.352 $\pm$ 0.639 χ^2 /NDF: 12318.6/44

In: 177.259 $\pm$ 0.343 χ^2 /NDF: 9964.5/42

Out: 178.772 $\pm$ 0.336 χ^2 /NDF: 12782.4/49

All: 178.033 $\pm$ 0.240 χ^2 /NDF: 22756.9/92

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.306 ± 0.047 χ^2/NDF : 797.0/19

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.497 ± 0.043 χ^2/NDF : 1200.2/24

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

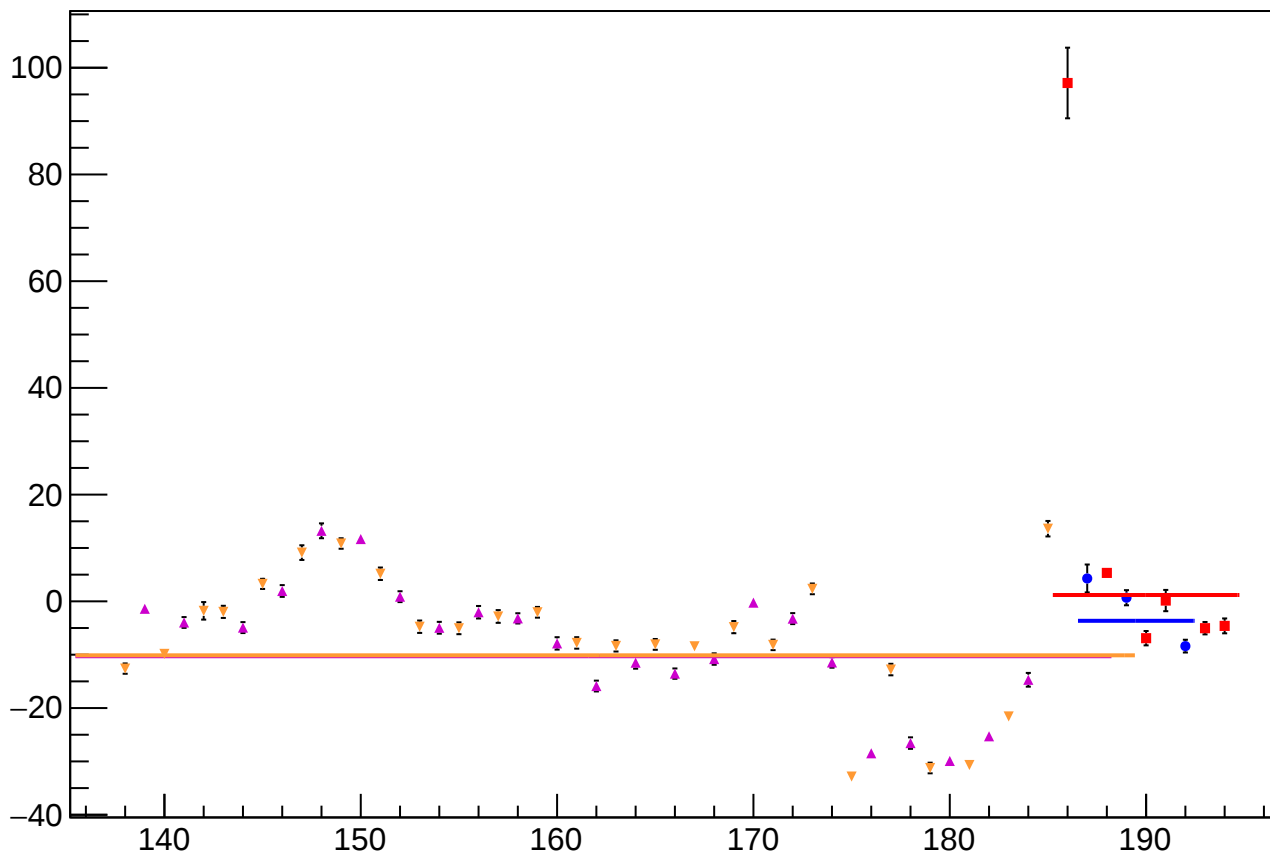
Right: -1.409 ± 0.032 χ^2/NDF : 2006.2/44

In: -0.774 ± 0.016 χ^2/NDF : 3349.9/42

Out: -0.874 ± 0.016 χ^2/NDF : 3207.7/49

All: -0.826 ± 0.011 χ^2/NDF : 6578.1/92

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.649 ± 0.863 $\chi^2/\text{NDF}: 34.2/2$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: 1.186 ± 0.470 $\chi^2/\text{NDF}: 334.3/5$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

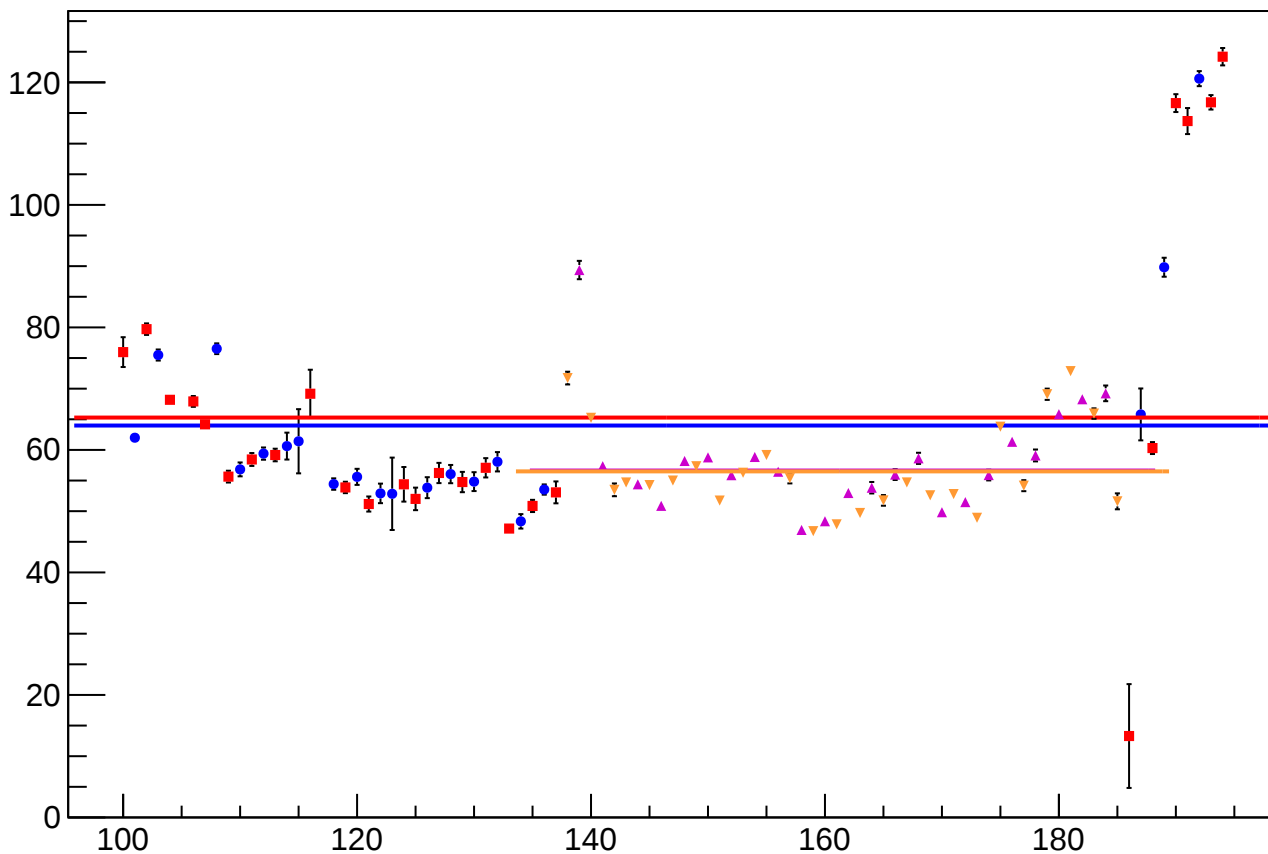
Right: 0.080 ± 0.413 $\chi^2/\text{NDF}: 392.7/8$

In: -9.934 ± 0.200 $\chi^2/\text{NDF}: 3541.3/25$

Out: -8.365 ± 0.185 $\chi^2/\text{NDF}: 4960.8/30$

All: -9.090 ± 0.136 $\chi^2/\text{NDF}: 8535.2/56$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 63.981 $\pm$ 0.254 χ^2 /NDF: 3490.1/19

Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF:1968.0/24

Right Out: 65.281 $\pm$ 0.228 χ^2 /NDF: 7330.3/24

Left In: 56.635 $\pm$ 0.165 χ^2 /NDF:1607.9/22

Left: 56.563 $\pm$ 0.114 χ^2 /NDF: 3576.3/47

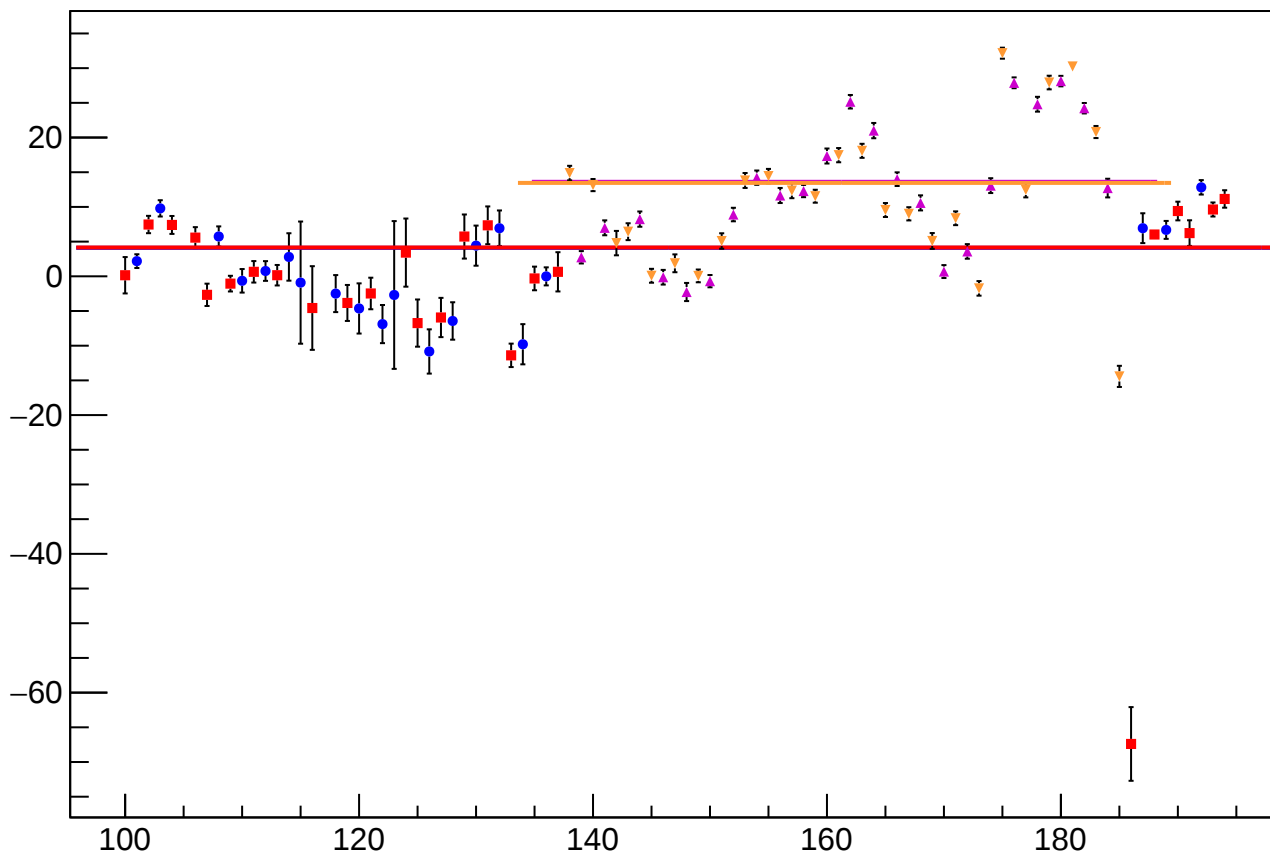
Right: 64.700 $\pm$ 0.170 χ^2 /NDF: 10834.9/44

In: 58.823 $\pm$ 0.138 χ^2 /NDF:5687.5/42

Out: 59.368 $\pm$ 0.130 χ^2 /NDF:10297.8/49

All: 59.112 $\pm$ 0.095 χ^2 /NDF: 15993.5/92

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.107 ± 0.393 χ^2/NDF : 218.0/19

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 4.152 ± 0.292 χ^2/NDF : 477.3/24

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

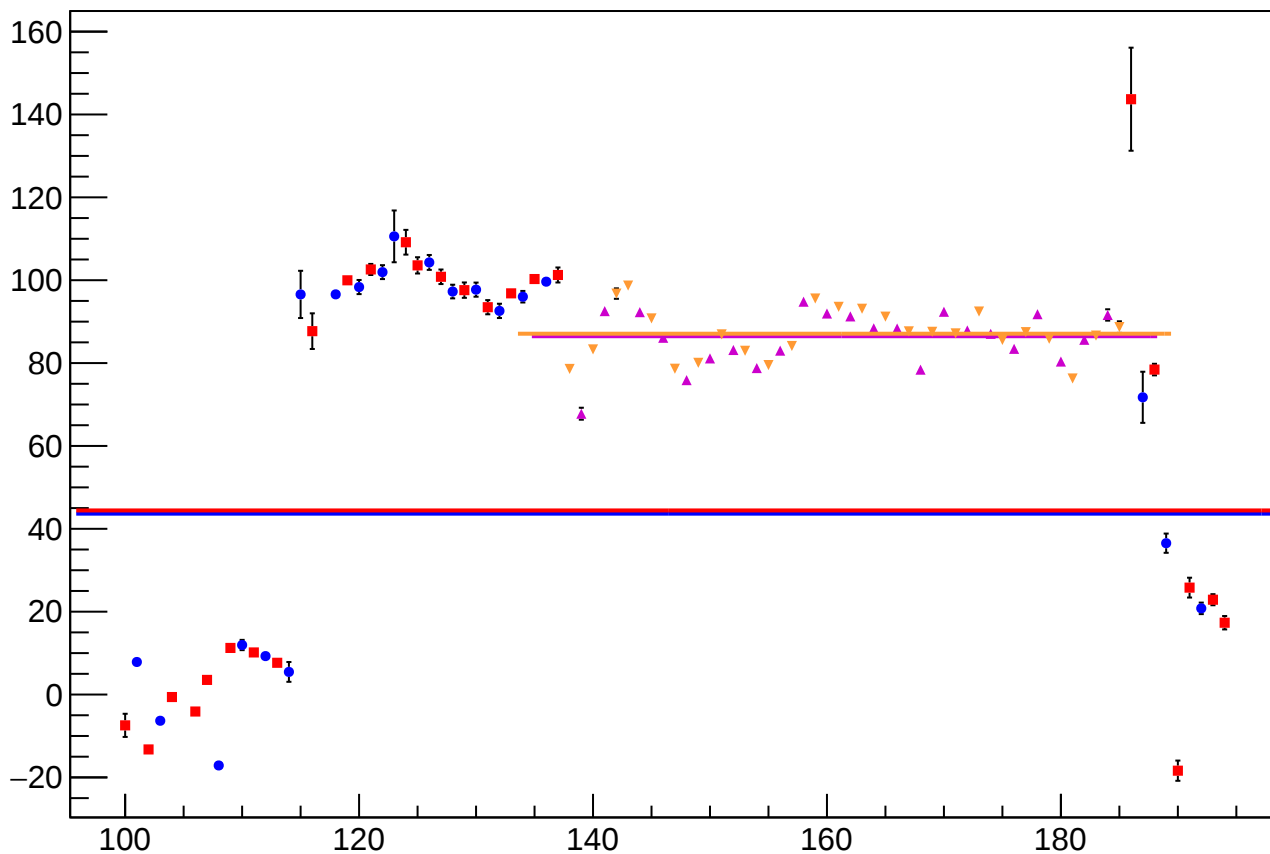
Right: 4.136 ± 0.234 χ^2/NDF : 695.3/44

In: 11.593 ± 0.181 χ^2/NDF : 2994.6/42

Out: 10.458 ± 0.166 χ^2/NDF : 3902.6/49

All: 10.975 ± 0.122 χ^2/NDF : 6918.6/92

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.661 $\pm$ 0.295 χ^2 /NDF: 25015.5/19

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 44.433 $\pm$ 0.270 χ^2 /NDF: 30161.8/24

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

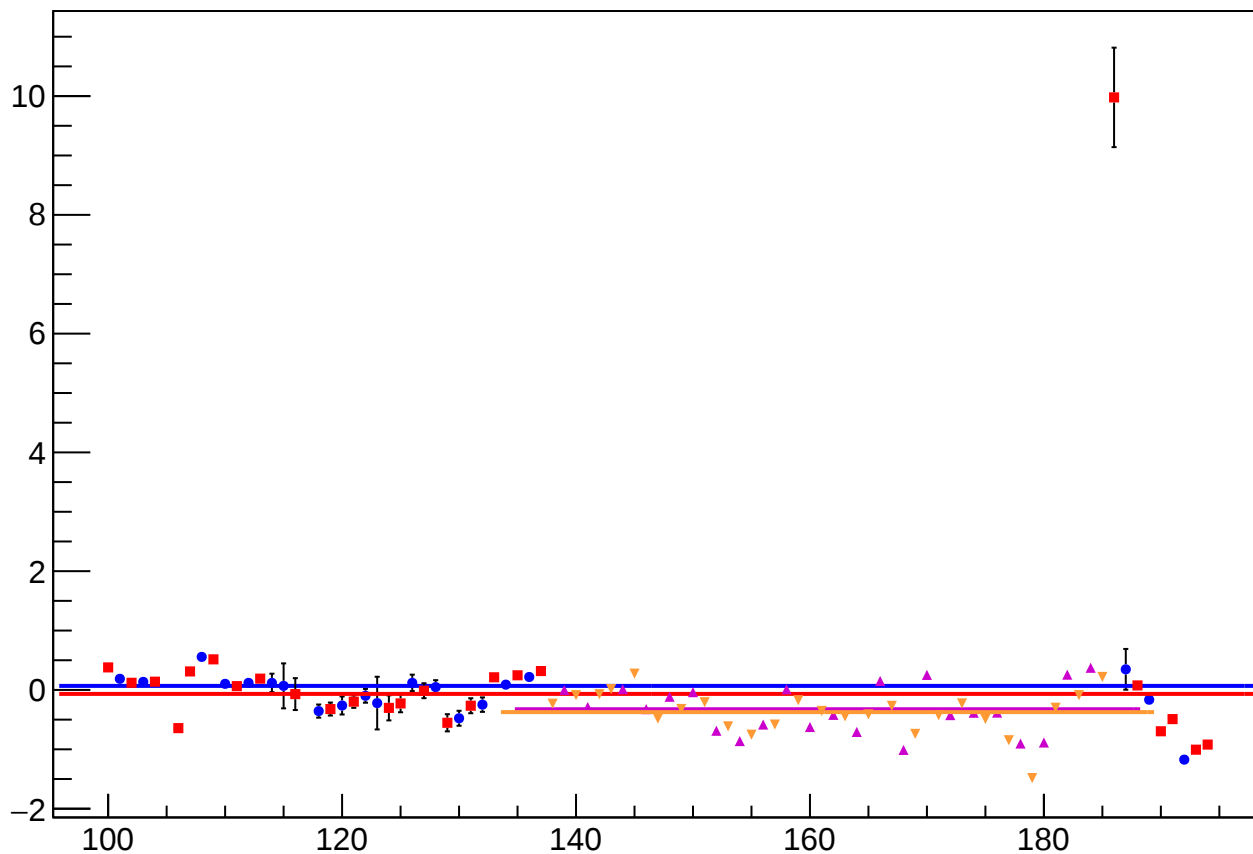
Right: 44.081 $\pm$ 0.199 χ^2 /NDF: 55181.0/44

In: 74.440 $\pm$ 0.157 χ^2 /NDF:41148.4/42

Out: 74.057 $\pm$ 0.149 χ^2 /NDF:48578.2/49

All: 74.239 $\pm$ 0.108 χ^2 /NDF: 89729.8/92

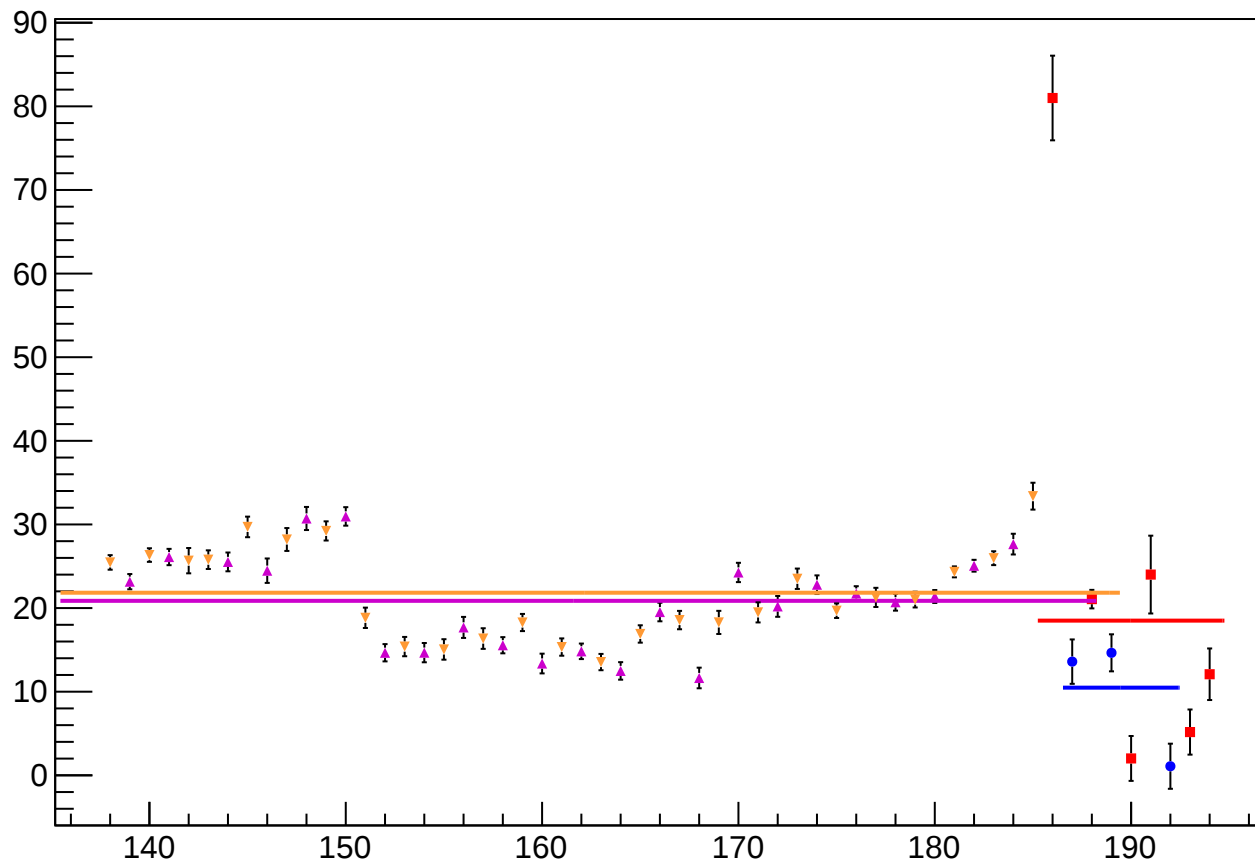
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.068 ± 0.013 $\chi^2/\text{NDF}: 1117.2/19$
 Left Out: -0.373 ± 0.008 $\chi^2/\text{NDF}: 1668.6/24$
 Right Out: -0.067 ± 0.011 $\chi^2/\text{NDF}: 1800.2/24$
 Left In: -0.325 ± 0.008 $\chi^2/\text{NDF}: 2284.1/22$

Left: -0.349 ± 0.006 $\chi^2/\text{NDF}: 3970.2/47$
 Right: -0.009 ± 0.009 $\chi^2/\text{NDF}: 2976.9/44$
 In: -0.215 ± 0.007 $\chi^2/\text{NDF}: 4041.1/42$
 Out: -0.271 ± 0.007 $\chi^2/\text{NDF}: 3943.9/49$
 All: -0.245 ± 0.005 $\chi^2/\text{NDF}: 8018.2/92$

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.483 ± 1.438 $\chi^2/\text{NDF}: 17.0/2$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 18.499 ± 0.883 $\chi^2/\text{NDF}: 225.6/5$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

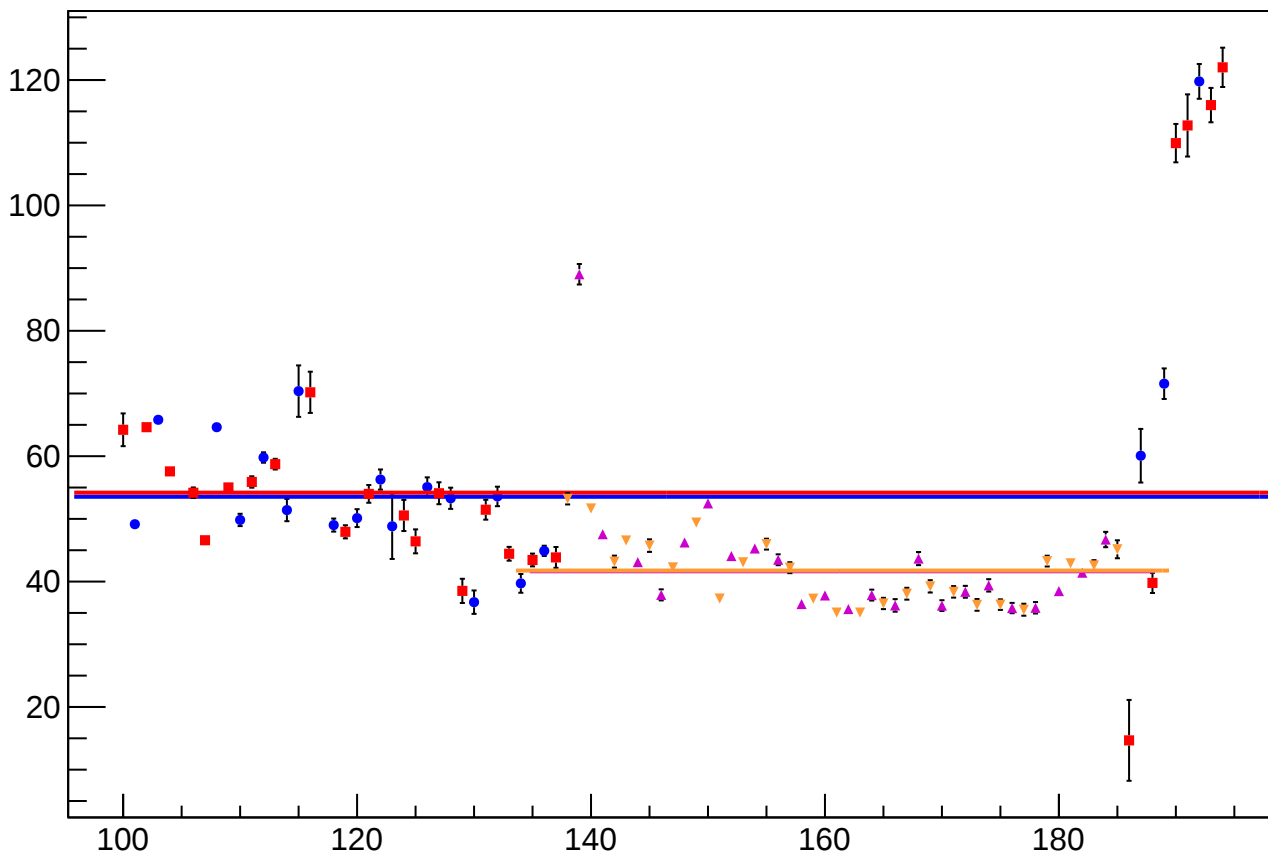
Right: 16.305 ± 0.753 $\chi^2/\text{NDF}: 265.2/8$

In: 20.635 ± 0.214 $\chi^2/\text{NDF}: 644.9/25$

Out: 21.658 ± 0.204 $\chi^2/\text{NDF}: 763.5/30$

All: 21.171 ± 0.148 $\chi^2/\text{NDF}: 1420.3/56$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 53.529 $\pm$ 0.209 χ^2 /NDF: 1832.5/19

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 54.187 $\pm$ 0.222 χ^2 /NDF: 2456.5/24

Left In: 41.643 $\pm$ 0.174 χ^2 /NDF:1611.0/22

Left: 41.703 $\pm$ 0.120 χ^2 /NDF: 2626.9/47

Right: 53.838 $\pm$ 0.152 χ^2 /NDF: 4293.7/44

In: 46.490 $\pm$ 0.134 χ^2 /NDF:5351.5/42

Out: 46.184 $\pm$ 0.133 χ^2 /NDF:5484.5/49

All: 46.336 $\pm$ 0.094 χ^2 /NDF: 10838.6/92

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.556 ± 0.350 χ^2/NDF : 3155.5/19

Left Out: 52.076 ± 0.210 χ^2/NDF : 1450.9/24

Right Out: 10.265 ± 0.336 χ^2/NDF : 5057.6/24

Left In: 53.447 ± 0.215 χ^2/NDF : 1169.0/22

Left: 52.744 ± 0.150 χ^2/NDF : 2640.6/47

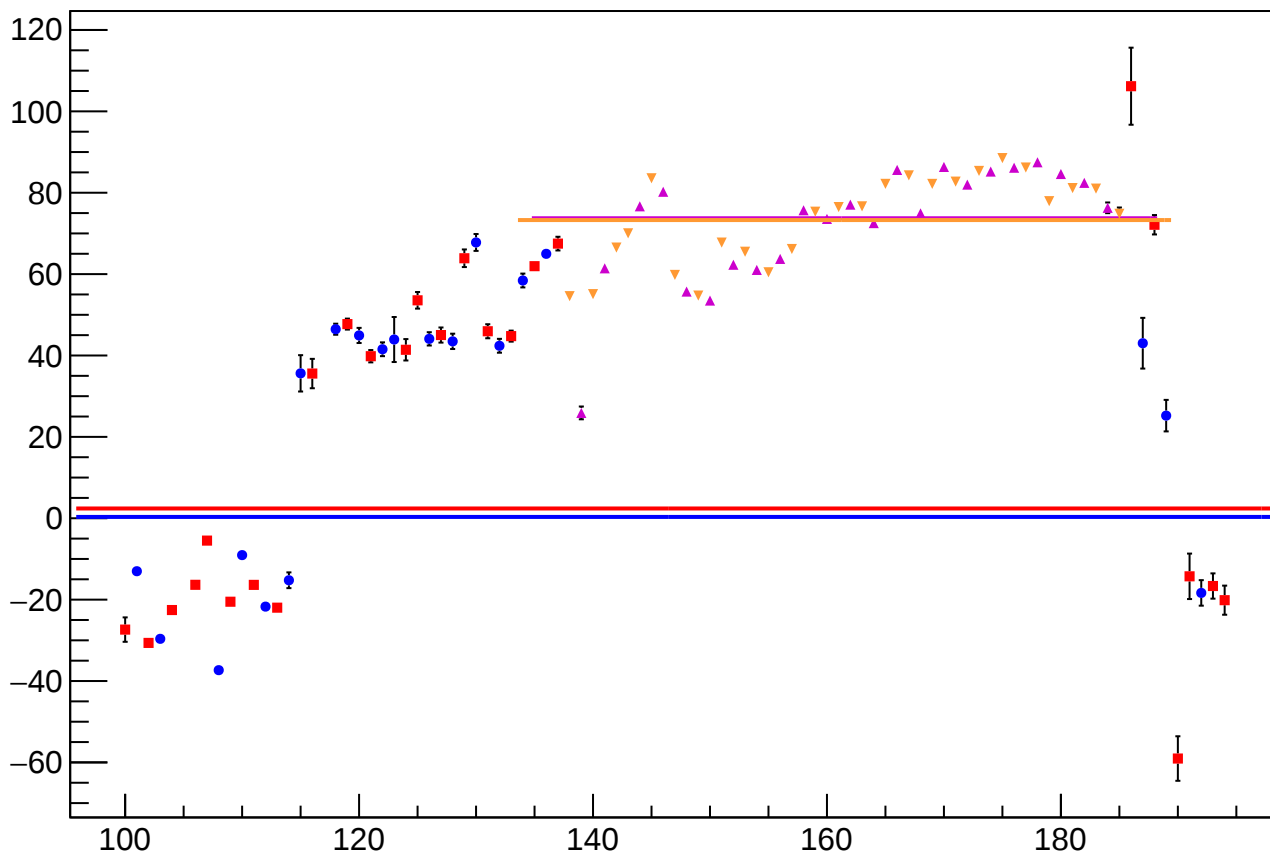
Right: 6.563 ± 0.242 χ^2/NDF : 8465.6/44

In: 39.459 ± 0.183 χ^2/NDF : 19673.9/42

Out: 40.341 ± 0.178 χ^2/NDF : 17634.2/49

All: 39.913 ± 0.128 χ^2/NDF : 37320.0/92

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.328 ± 0.246 χ^2/NDF : 18343.8/19

Left Out: 73.284 ± 0.187 χ^2/NDF : 3144.2/24

Right Out: 2.404 ± 0.263 χ^2/NDF : 16605.4/24

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

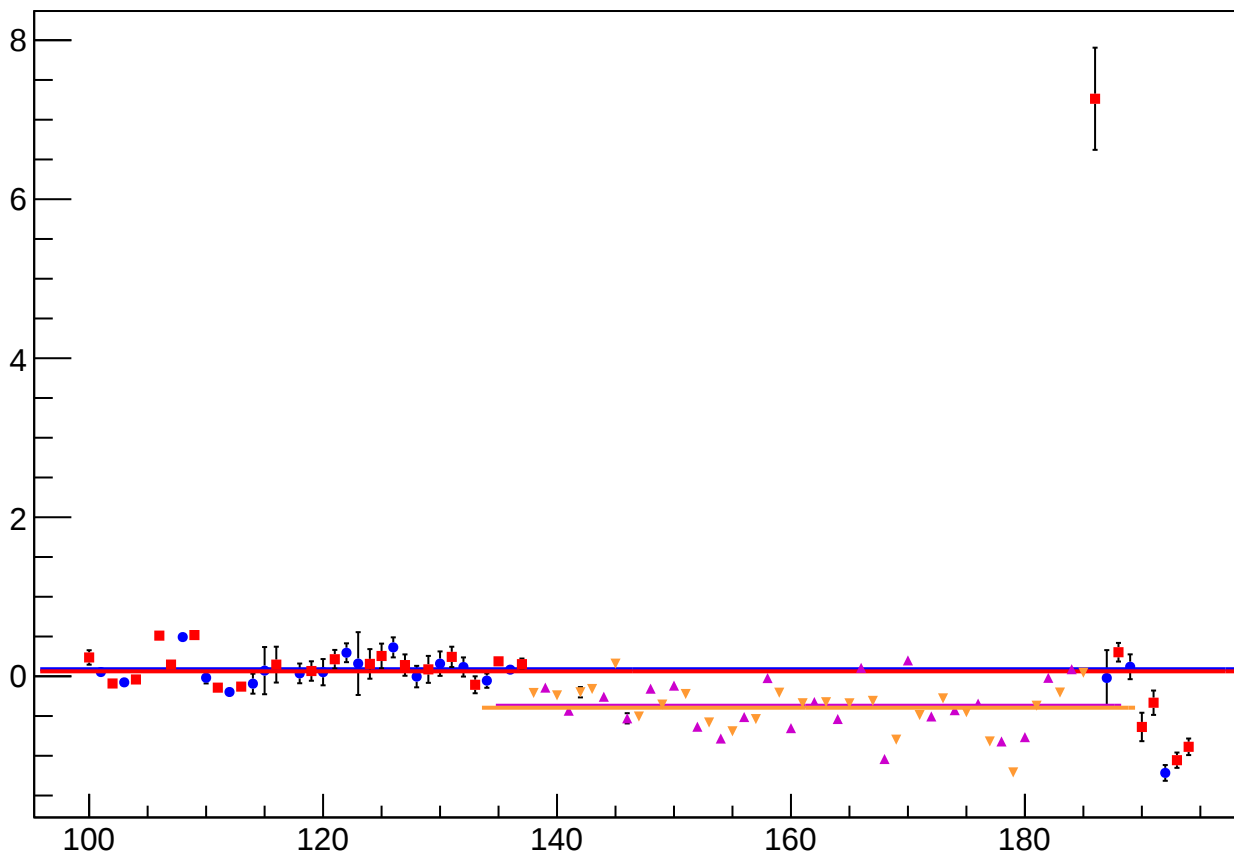
Right: 1.298 ± 0.180 χ^2/NDF : 34982.5/44

In: 45.550 ± 0.153 χ^2/NDF : 76890.2/42

Out: 49.478 ± 0.152 χ^2/NDF : 68081.7/49

All: 47.518 ± 0.108 χ^2/NDF : 145304.1/92

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.089+/-0.011 χ^2/NDF : 576.2/19

Left Out: -0.396+/-0.009 χ^2/NDF : 950.0/24

Right Out: 0.062+/-0.011 χ^2/NDF : 765.7/24

Left In: -0.371+/-0.009 χ^2/NDF : 1313.7/22

Left: -0.383+/-0.006 χ^2/NDF : 2268.0/47

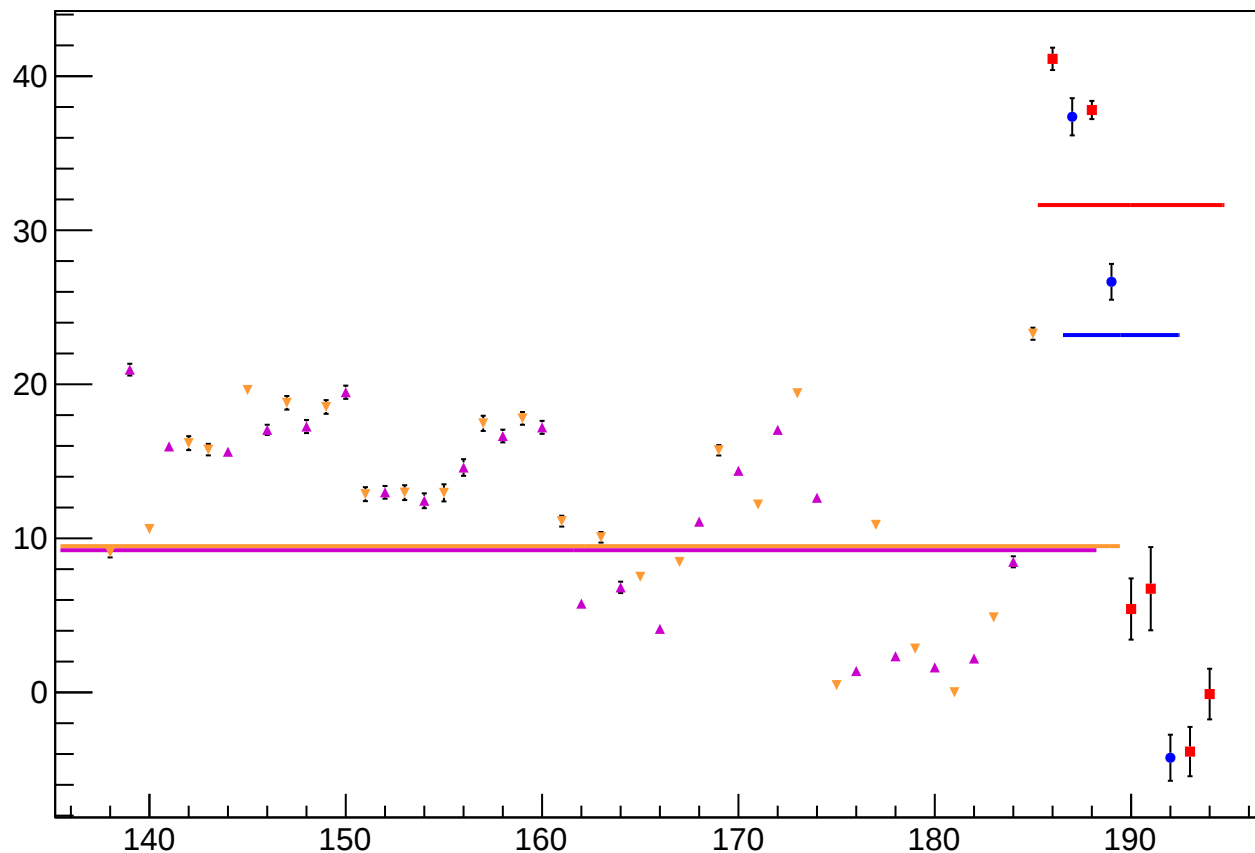
Right: 0.075+/-0.008 χ^2/NDF : 1345.0/44

In: -0.193+/-0.007 χ^2/NDF : 2968.7/42

Out: -0.219+/-0.007 χ^2/NDF : 2821.2/49

All: -0.206+/-0.005 χ^2/NDF : 5797.6/92

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 23.197 $\pm$ 0.731 χ^2 /NDF: 482.9/2

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 31.635 $\pm$ 0.411 χ^2 /NDF: 1402.7/5

Left In: 9.231 $\pm$ 0.063 χ^2 /NDF:10736.2/22

Left: 9.367 $\pm$ 0.044 χ^2 /NDF: 23354.3/47

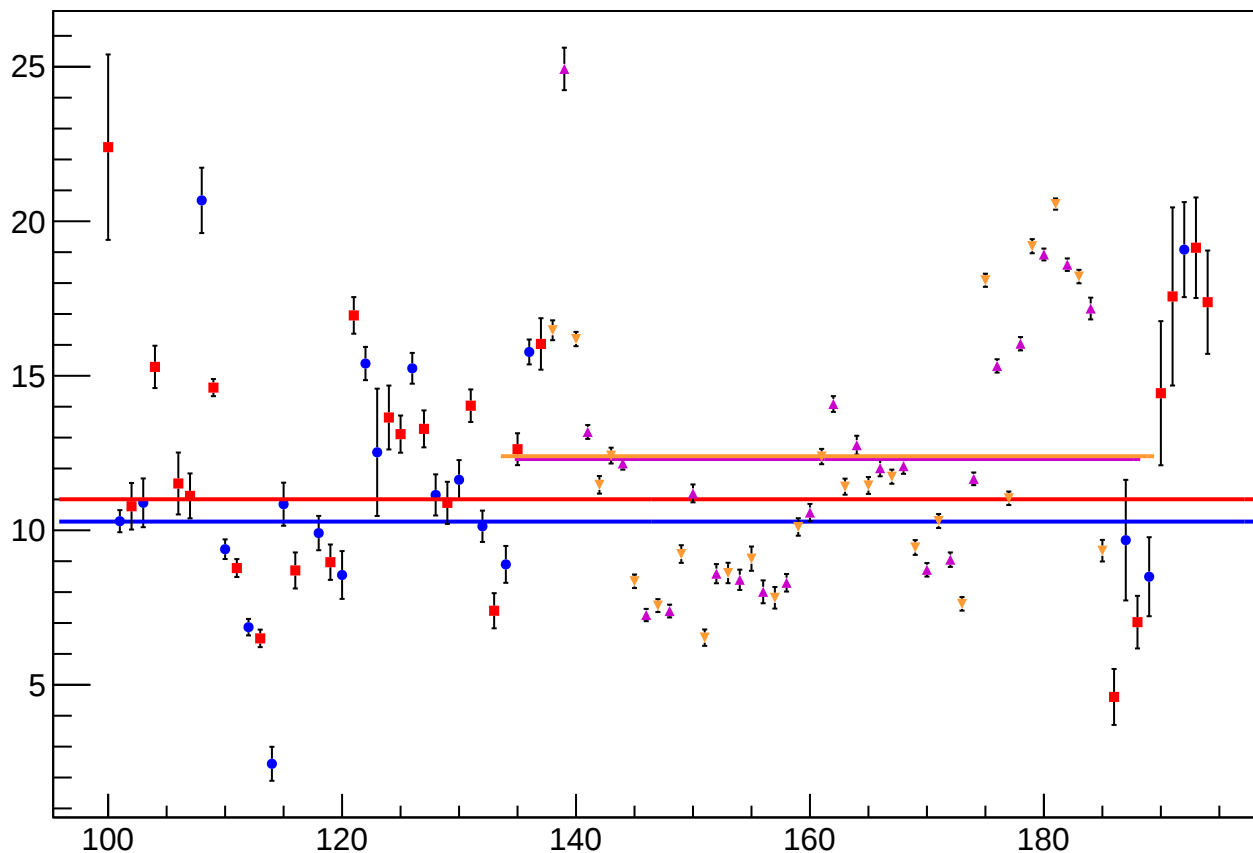
Right: 29.605 $\pm$ 0.359 χ^2 /NDF: 1986.8/8

In: 9.334 $\pm$ 0.063 χ^2 /NDF:11581.3/25

Out: 9.975 $\pm$ 0.061 χ^2 /NDF:16844.8/30

All: 9.666 $\pm$ 0.044 χ^2 /NDF: 28480.0/56

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.282 $\pm$ 0.119 χ^2 /NDF: 901.0/19

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.004 $\pm$ 0.114 χ^2 /NDF: 935.9/24

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

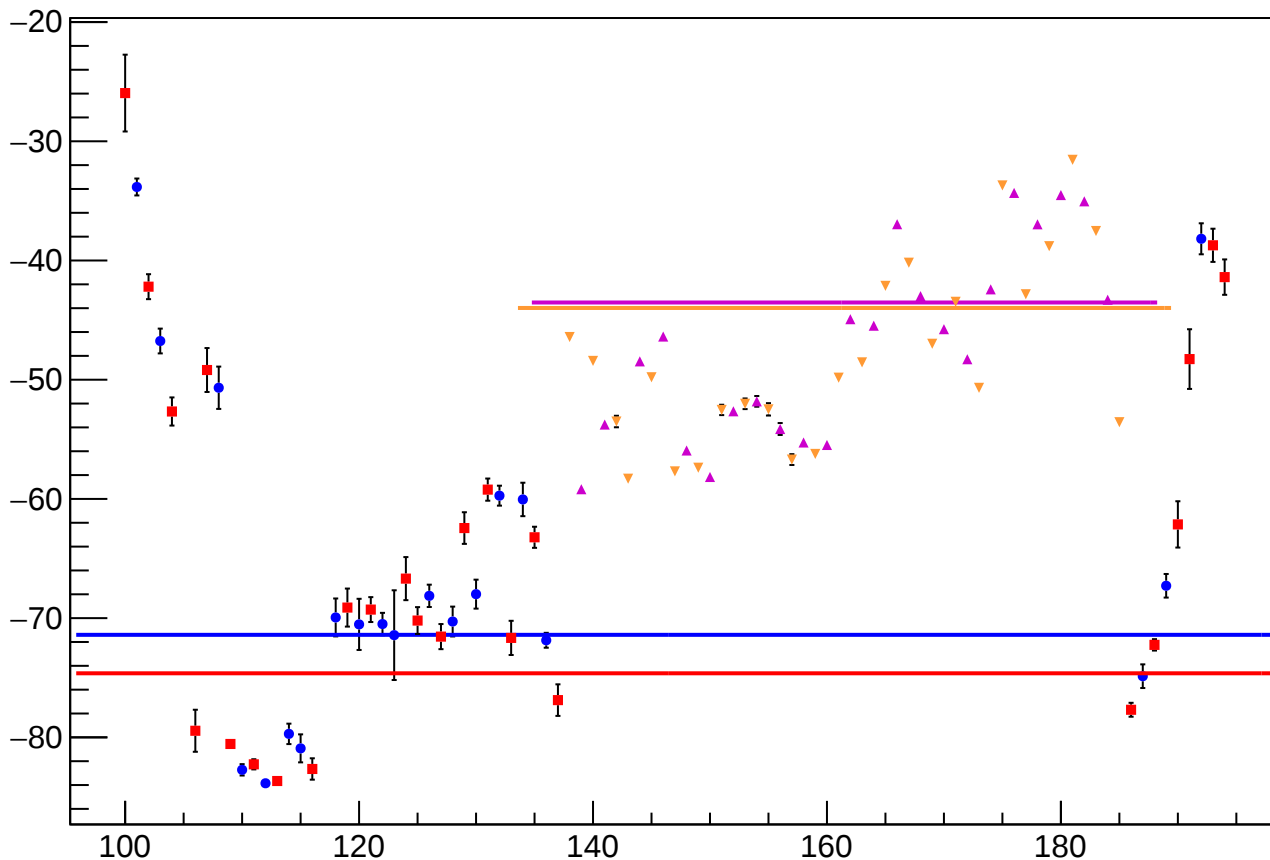
Right: 10.658 $\pm$ 0.082 χ^2 /NDF: 1856.3/44

In: 11.988 $\pm$ 0.047 χ^2 /NDF: 6748.7/42

Out: 12.174 $\pm$ 0.046 χ^2 /NDF: 8604.7/49

All: 12.084 $\pm$ 0.033 χ^2 /NDF: 15361.4/92

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.400 ± 0.189 χ^2/NDF : 6261.0/19

Left Out: -43.982 ± 0.062 χ^2/NDF : 17736.8/24

Right Out: -74.627 ± 0.160 χ^2/NDF : 4889.7/24

Left In: -43.523 ± 0.063 χ^2/NDF : 15267.1/22

Left: -43.757 ± 0.044 χ^2/NDF : 33030.8/47

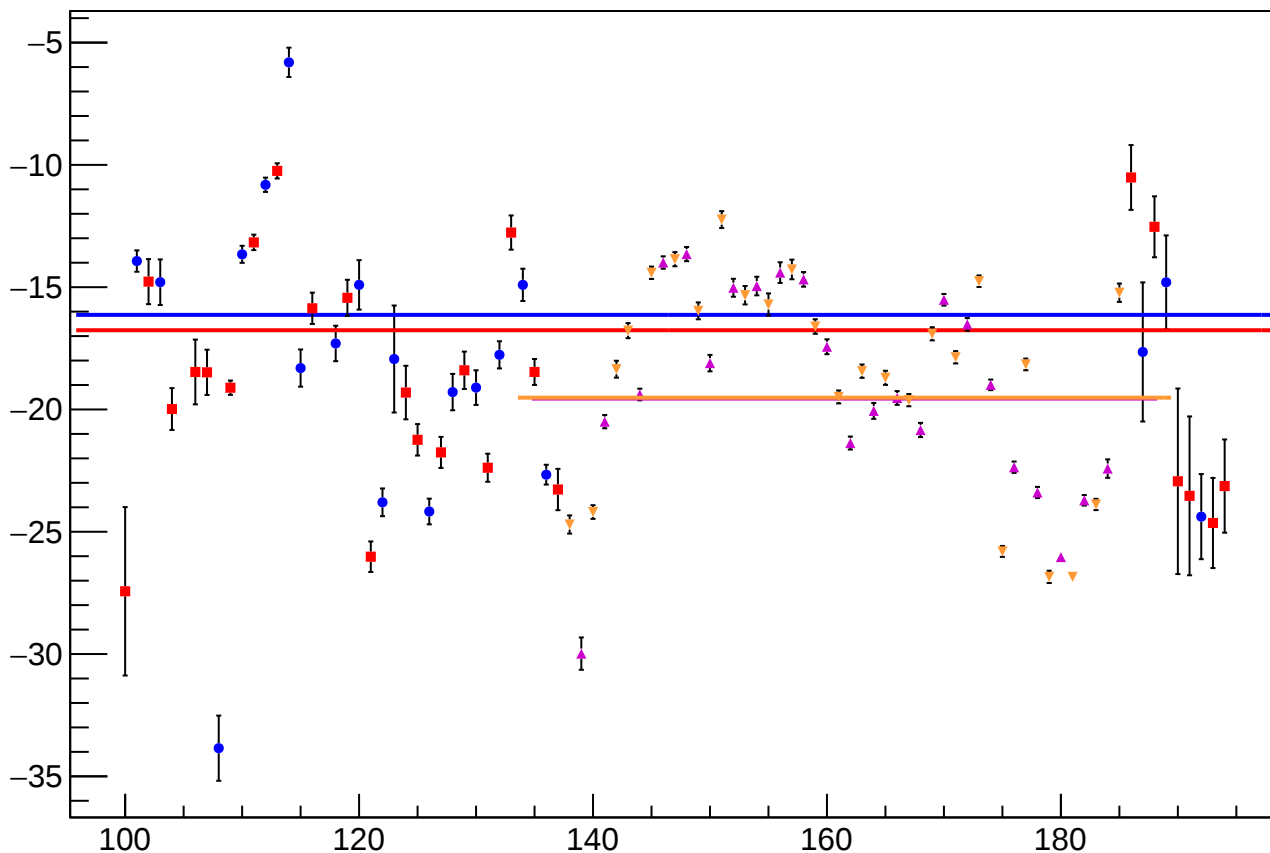
Right: -73.281 ± 0.122 χ^2/NDF : 11320.8/44

In: -46.339 ± 0.060 χ^2/NDF : 41105.0/42

Out: -47.986 ± 0.058 χ^2/NDF : 54612.8/49

All: -47.194 ± 0.042 χ^2/NDF : 96108.6/92

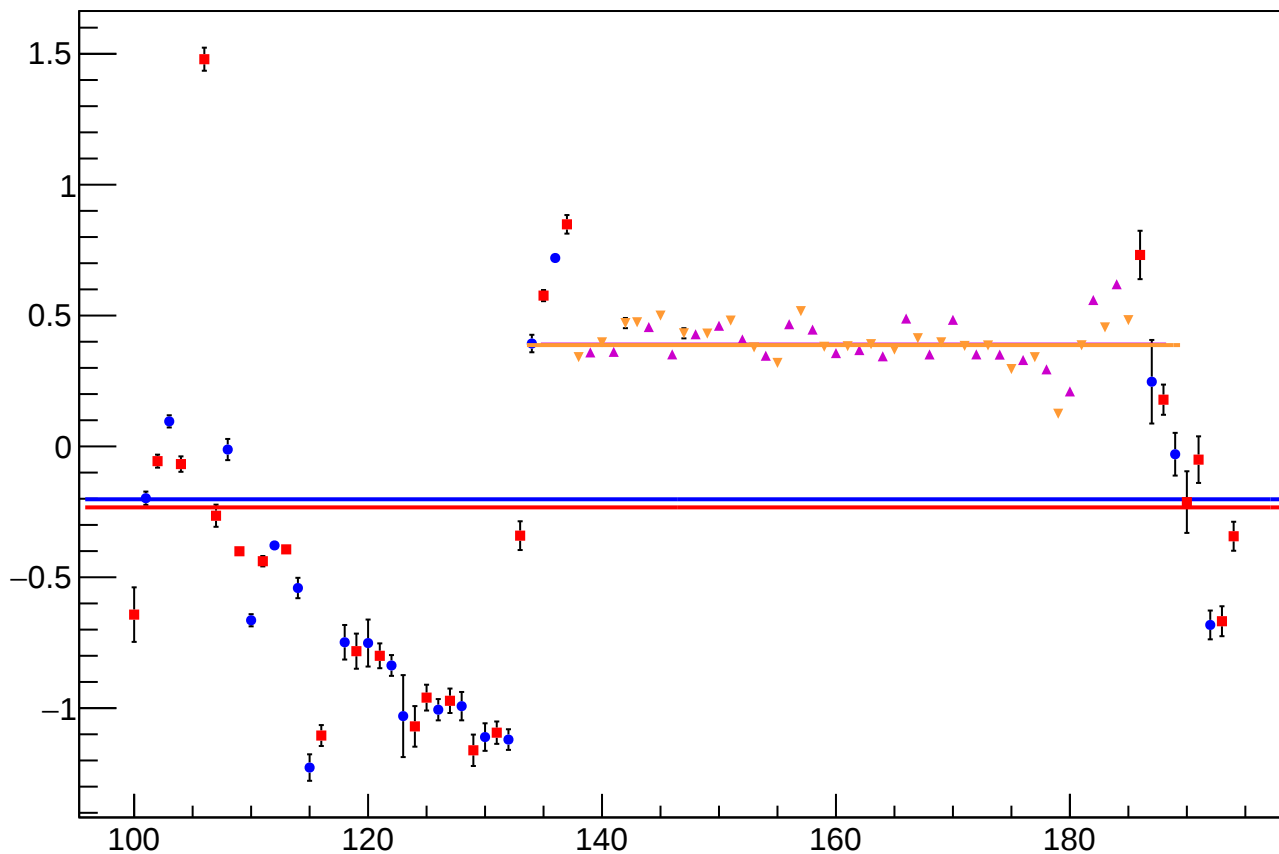
reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.132 ± 0.132 $\chi^2/\text{NDF}: 1644.0/19$
 Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$
 Right Out: -16.761 ± 0.126 $\chi^2/\text{NDF}: 1281.4/24$
 Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$
 Right: -16.460 ± 0.091 $\chi^2/\text{NDF}: 2937.3/44$
 In: -19.011 ± 0.053 $\chi^2/\text{NDF}: 6520.9/42$
 Out: -19.068 ± 0.051 $\chi^2/\text{NDF}: 8198.2/49$
 All: -19.040 ± 0.037 $\chi^2/\text{NDF}: 14719.8/92$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.202 ± 0.007 χ^2/NDF : 6405.7/19

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.233 ± 0.007 χ^2/NDF : 6402.8/24

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

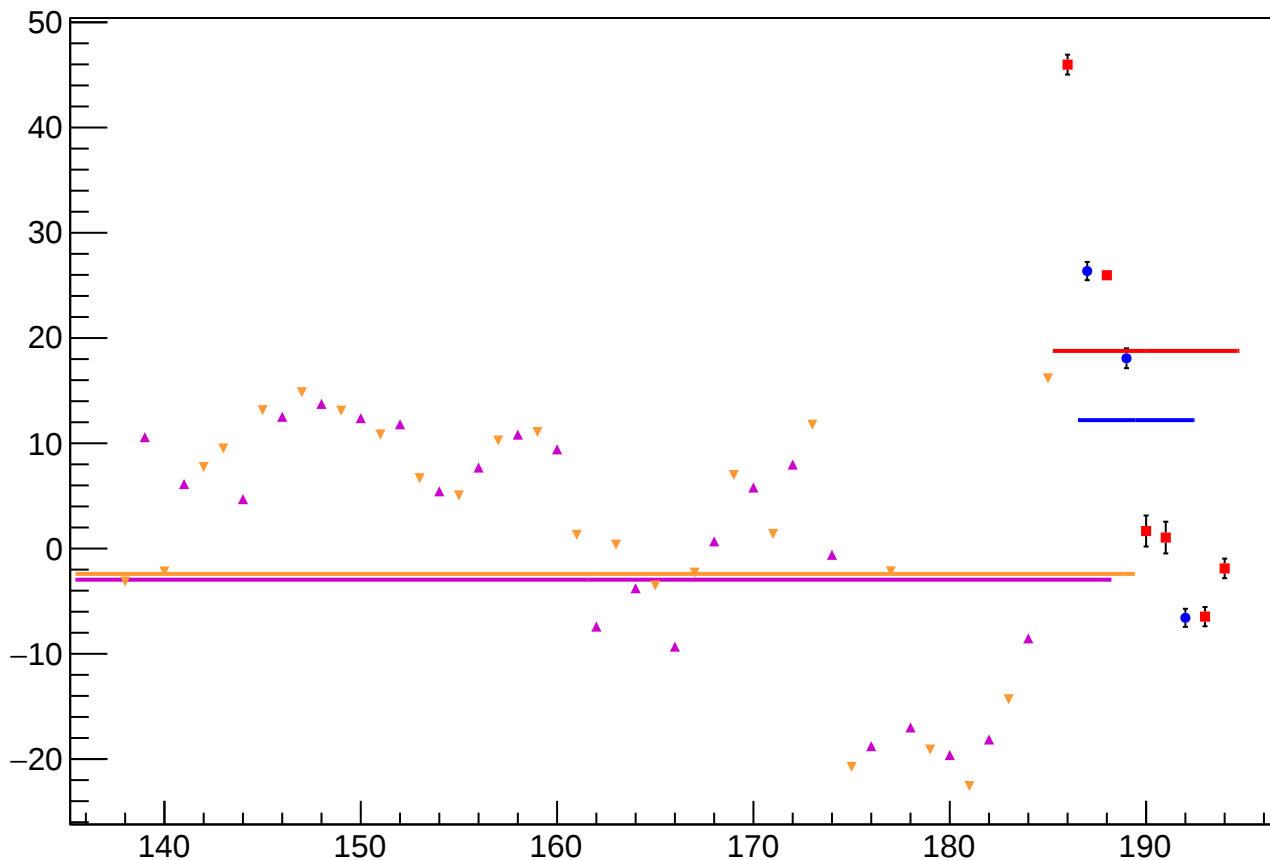
Right: -0.219 ± 0.005 χ^2/NDF : 12817.7/44

In: 0.324 ± 0.002 χ^2/NDF : 13269.7/42

Out: 0.313 ± 0.002 χ^2/NDF : 14383.5/49

All: 0.319 ± 0.002 χ^2/NDF : 27662.9/92

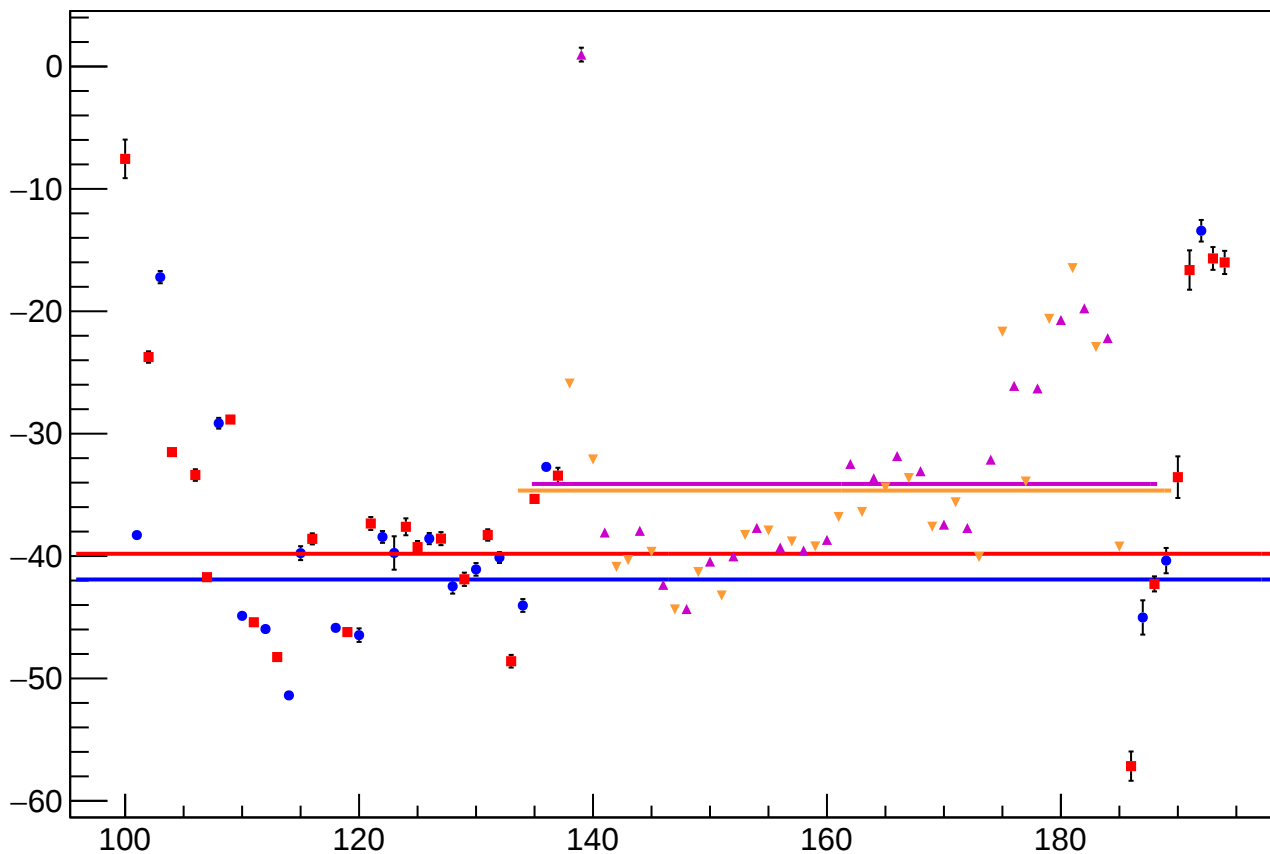
reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.200 ± 0.512 $\chi^2/\text{NDF}: 783.5/2$
 Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$
 Right Out: 18.777 ± 0.319 $\chi^2/\text{NDF}: 2631.3/5$
 Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$
 Right: 16.938 ± 0.271 $\chi^2/\text{NDF}: 3533.7/8$
 In: -2.787 ± 0.055 $\chi^2/\text{NDF}: 47572.7/25$
 Out: -1.843 ± 0.052 $\chi^2/\text{NDF}: 63291.8/30$
 All: -2.293 ± 0.038 $\chi^2/\text{NDF}: 111021.4/56$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -41.914 $\pm$ 0.078 χ^2 /NDF: 7609.6/19

Left Out: -34.646 $\pm$ 0.042 χ^2 /NDF:34674.7/24

Right Out: -39.813 $\pm$ 0.072 χ^2 /NDF: 13082.6/24

Left In: -34.108 $\pm$ 0.044 χ^2 /NDF:29052.8/22

Left: -34.390 $\pm$ 0.030 χ^2 /NDF: 63806.0/47

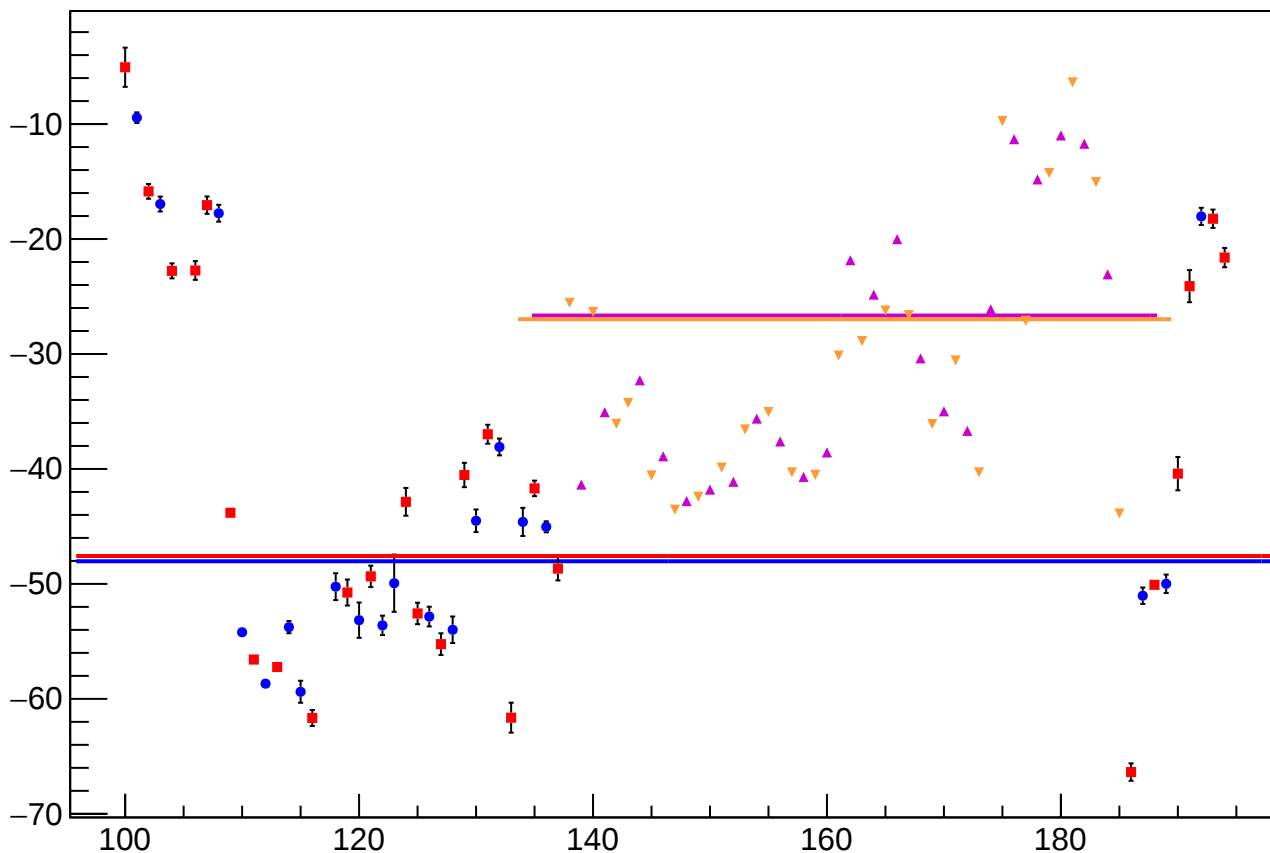
Right: -40.780 $\pm$ 0.053 χ^2 /NDF: 21088.4/44

In: -36.007 $\pm$ 0.038 χ^2 /NDF:44332.7/42

Out: -35.958 $\pm$ 0.036 χ^2 /NDF:51641.2/49

All: -35.981 $\pm$ 0.026 χ^2 /NDF: 95974.8/92

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.030 ± 0.120 $\chi^2/\text{NDF}: 16327.8/19$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -47.573 ± 0.100 $\chi^2/\text{NDF}: 15037.6/24$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

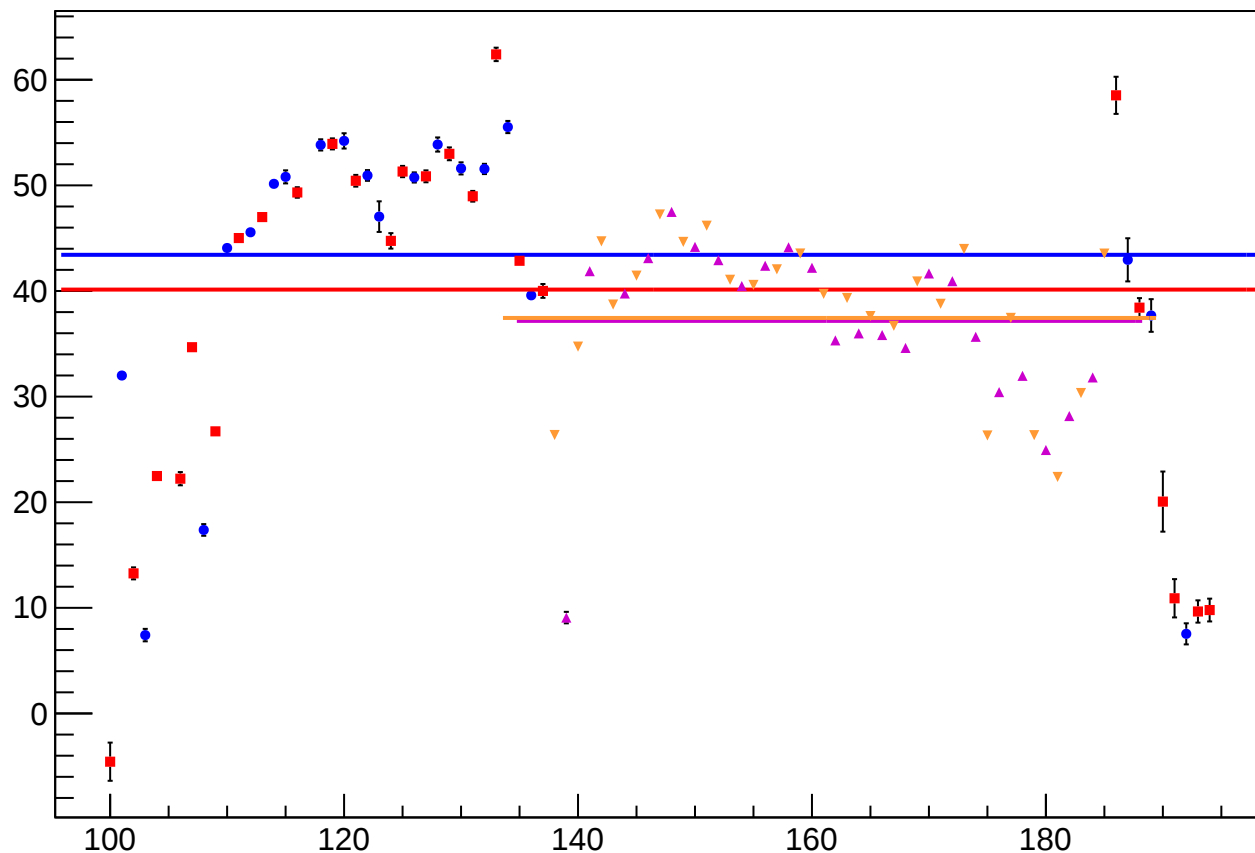
Right: -47.759 ± 0.077 $\chi^2/\text{NDF}: 31374.0/44$

In: -30.359 ± 0.050 $\chi^2/\text{NDF}: 84682.7/42$

Out: -31.553 ± 0.047 $\chi^2/\text{NDF}: 97709.5/49$

All: -30.994 ± 0.034 $\chi^2/\text{NDF}: 182695.9/92$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.425 $\pm$ 0.086 χ^2 /NDF: 11880.3/19

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF: 21570.6/24

Right Out: 40.132 $\pm$ 0.079 χ^2 /NDF: 19649.8/24

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF: 17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

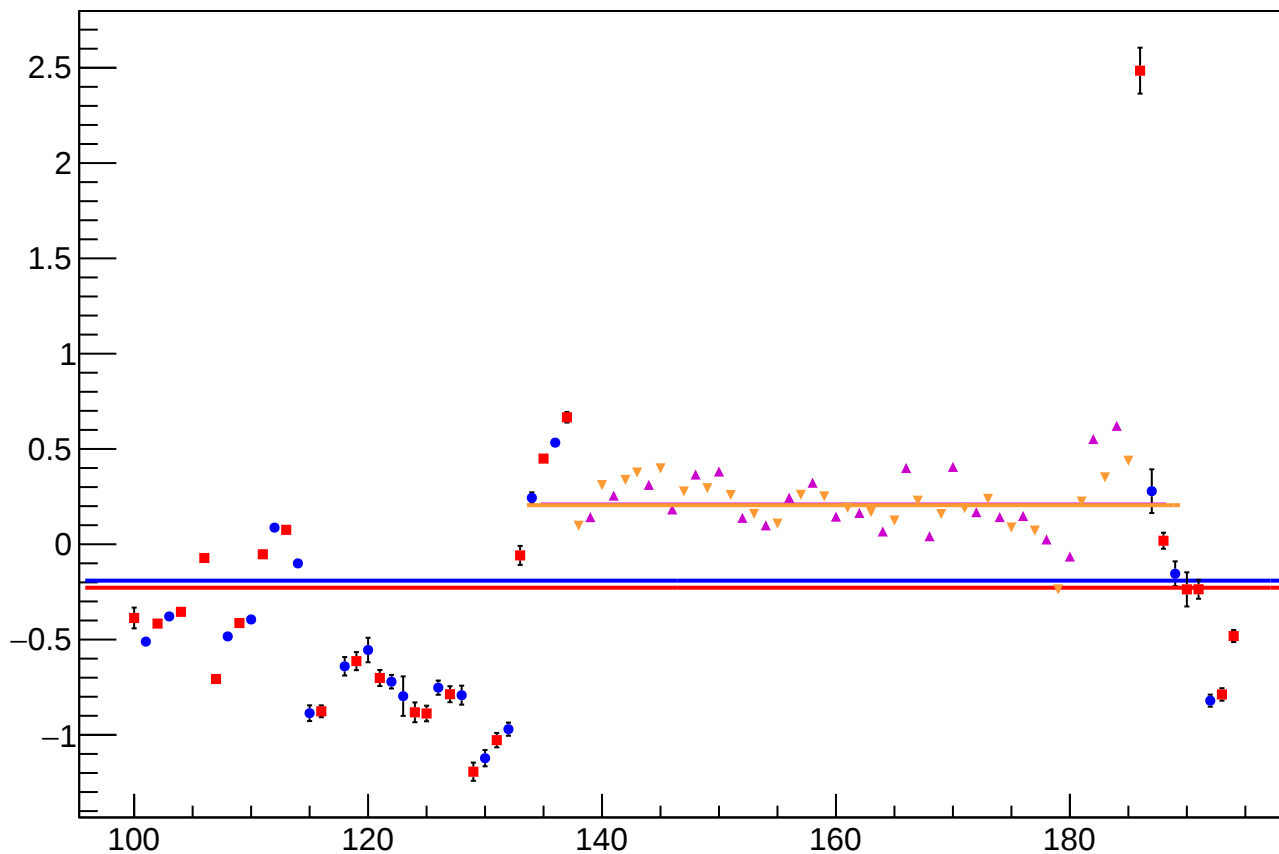
Right: 41.636 $\pm$ 0.058 χ^2 /NDF: 32317.4/44

In: 38.702 $\pm$ 0.043 χ^2 /NDF: 33066.9/42

Out: 38.149 $\pm$ 0.041 χ^2 /NDF: 42067.9/49

All: 38.410 $\pm$ 0.029 χ^2 /NDF: 75222.9/92

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.191 ± 0.005 $\chi^2/\text{NDF}: 7776.0/19$

Left Out: 0.205 ± 0.002 $\chi^2/\text{NDF}: 3826.2/24$

Right Out: -0.228 ± 0.004 $\chi^2/\text{NDF}: 8319.2/24$

Left In: 0.208 ± 0.002 $\chi^2/\text{NDF}: 5094.6/22$

Left: 0.207 ± 0.002 $\chi^2/\text{NDF}: 8922.0/47$

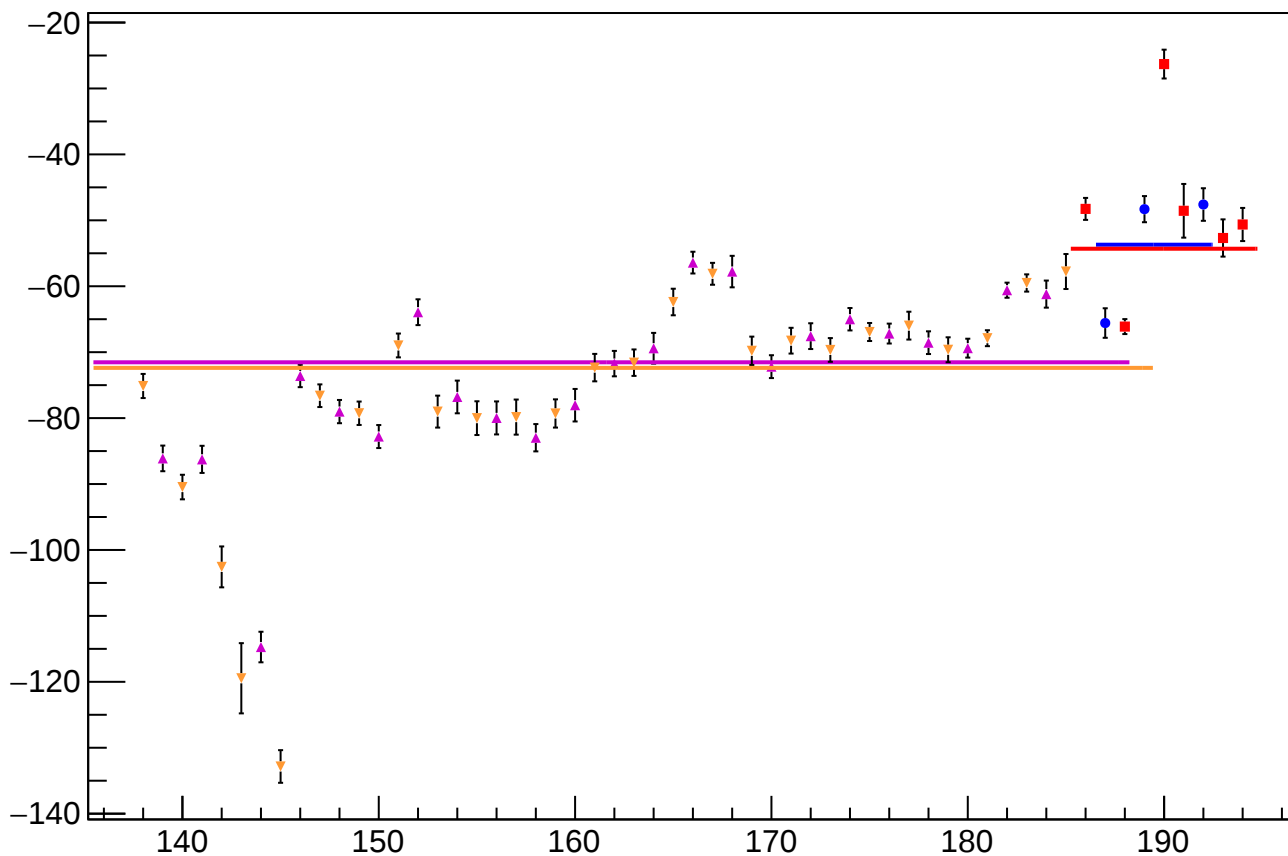
Right: -0.212 ± 0.003 $\chi^2/\text{NDF}: 16129.3/44$

In: 0.136 ± 0.002 $\chi^2/\text{NDF}: 18599.9/42$

Out: 0.113 ± 0.002 $\chi^2/\text{NDF}: 20571.5/49$

All: 0.124 ± 0.001 $\chi^2/\text{NDF}: 39239.0/92$

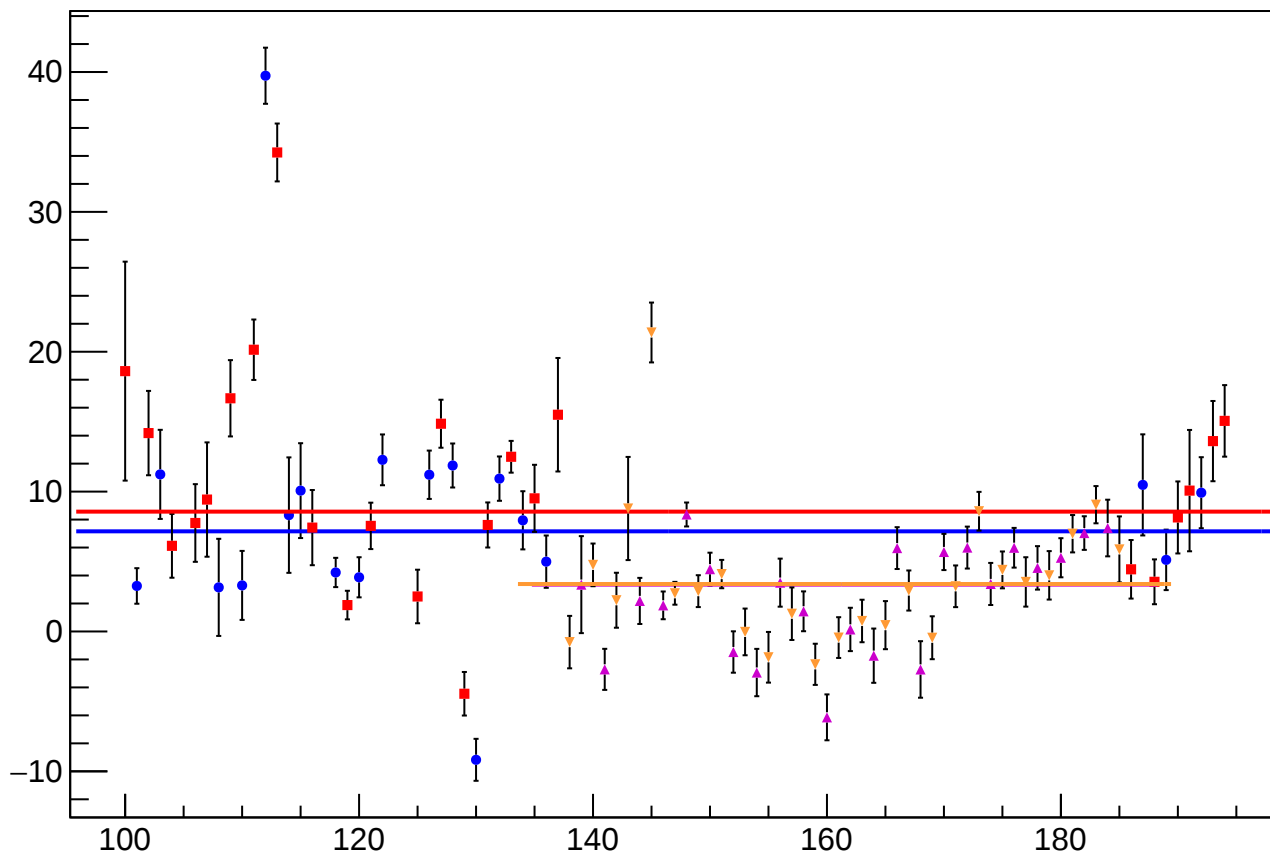
reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -53.698 ± 1.273 $\chi^2/\text{NDF}: 41.6/2$
 Left Out: -72.381 ± 0.382 $\chi^2/\text{NDF}: 1199.9/24$
 Right Out: -54.309 ± 0.769 $\chi^2/\text{NDF}: 290.1/5$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.957 ± 0.270 $\chi^2/\text{NDF}: 2053.7/47$
 Right: -54.145 ± 0.658 $\chi^2/\text{NDF}: 331.9/8$
 In: -70.062 ± 0.366 $\chi^2/\text{NDF}: 1073.3/25$
 Out: -68.808 ± 0.342 $\chi^2/\text{NDF}: 1932.8/30$
 All: -69.393 ± 0.250 $\chi^2/\text{NDF}: 3012.3/56$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.159 ± 0.422 $\chi^2/\text{NDF}: 443.4/18$

Left Out: 3.392 ± 0.294 $\chi^2/\text{NDF}: 169.9/24$

Right Out: 8.568 ± 0.406 $\chi^2/\text{NDF}: 373.3/23$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.371 ± 0.209 $\chi^2/\text{NDF}: 333.4/47$

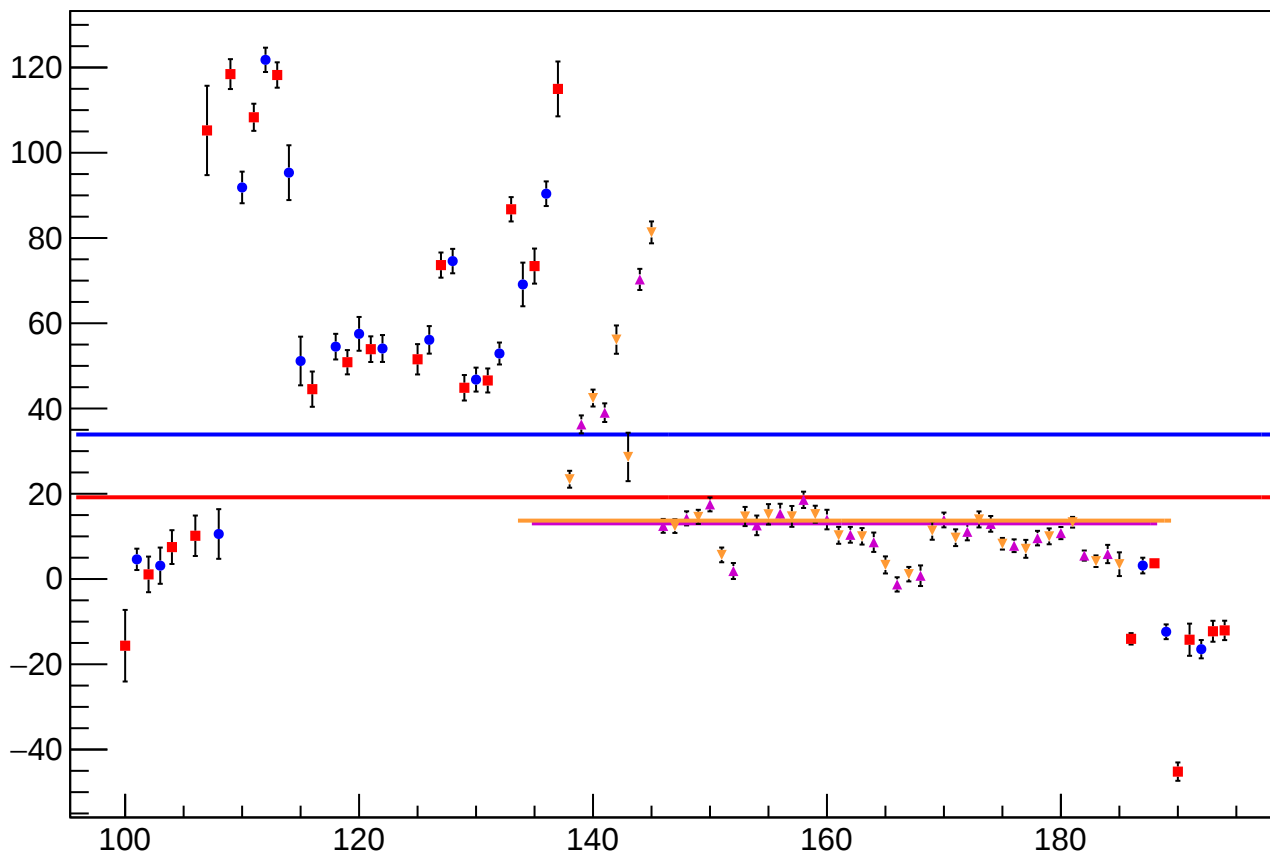
Right: 7.892 ± 0.293 $\chi^2/\text{NDF}: 822.5/42$

In: 4.617 ± 0.244 $\chi^2/\text{NDF}: 661.2/41$

Out: 5.171 ± 0.238 $\chi^2/\text{NDF}: 649.9/48$

All: 4.900 ± 0.170 $\chi^2/\text{NDF}: 1313.7/90$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 33.903+/-0.664 χ^2 /NDF: 3918.6/18

Left Out: 13.700+/-0.381 χ^2 /NDF:1307.0/24

Right Out: 19.170+/-0.513 χ^2 /NDF: 6876.2/23

Left In: 13.058+/-0.380 χ^2 /NDF:1024.7/22

Left: 13.378+/-0.269 χ^2 /NDF: 2333.1/47

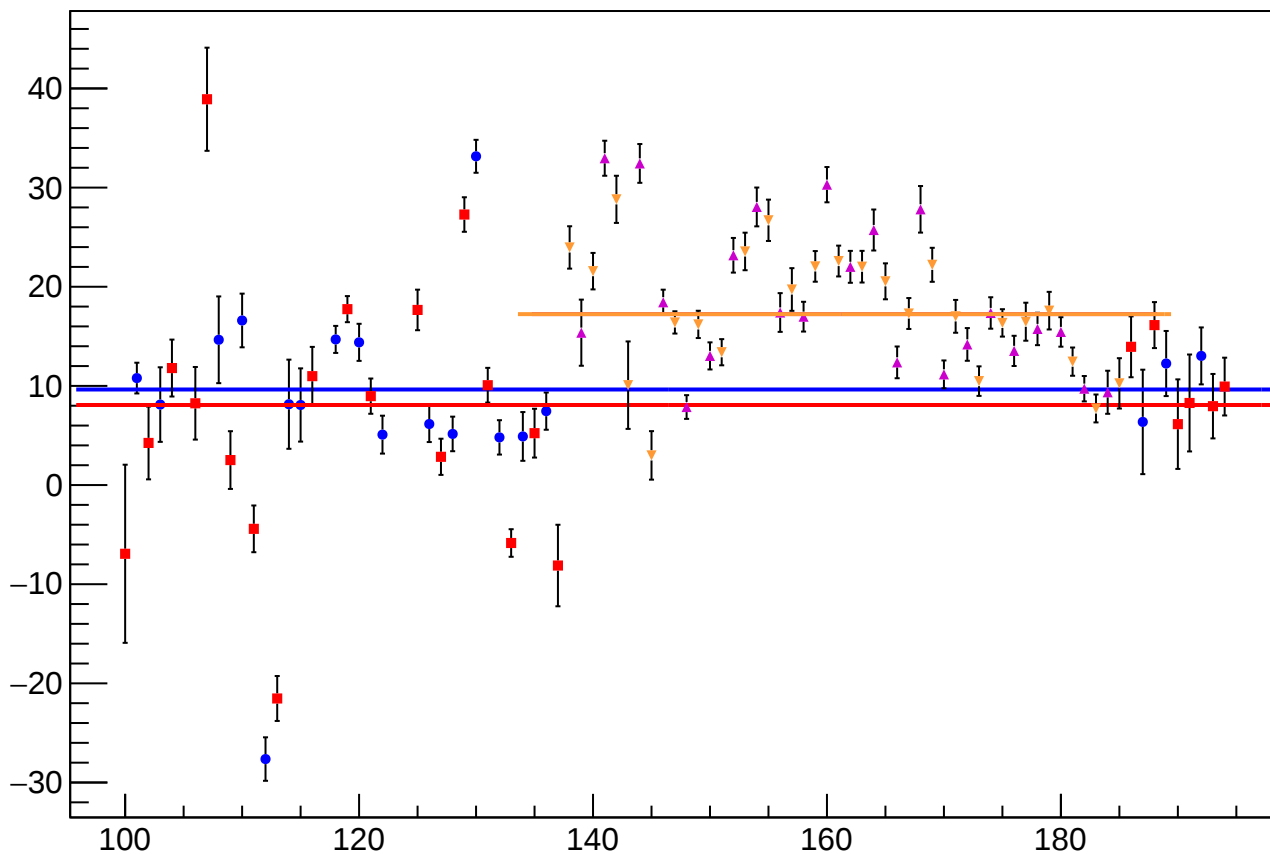
Right: 24.679+/-0.406 χ^2 /NDF: 11103.1/42

In: 18.195+/-0.330 χ^2 /NDF:5685.9/41

Out: 15.643+/-0.306 χ^2 /NDF:8256.5/48

All: 16.824+/-0.224 χ^2 /NDF: 13974.6/90

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.638 $\pm$ 0.492 χ^2 /NDF: 549.7/18

Left Out: 17.238 $\pm$ 0.336 χ^2 /NDF: 246.5/24

Right Out: 8.074 $\pm$ 0.479 χ^2 /NDF: 584.6/23

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF: 440.8/22

Left: 17.241 $\pm$ 0.239 χ^2 /NDF: 687.3/47

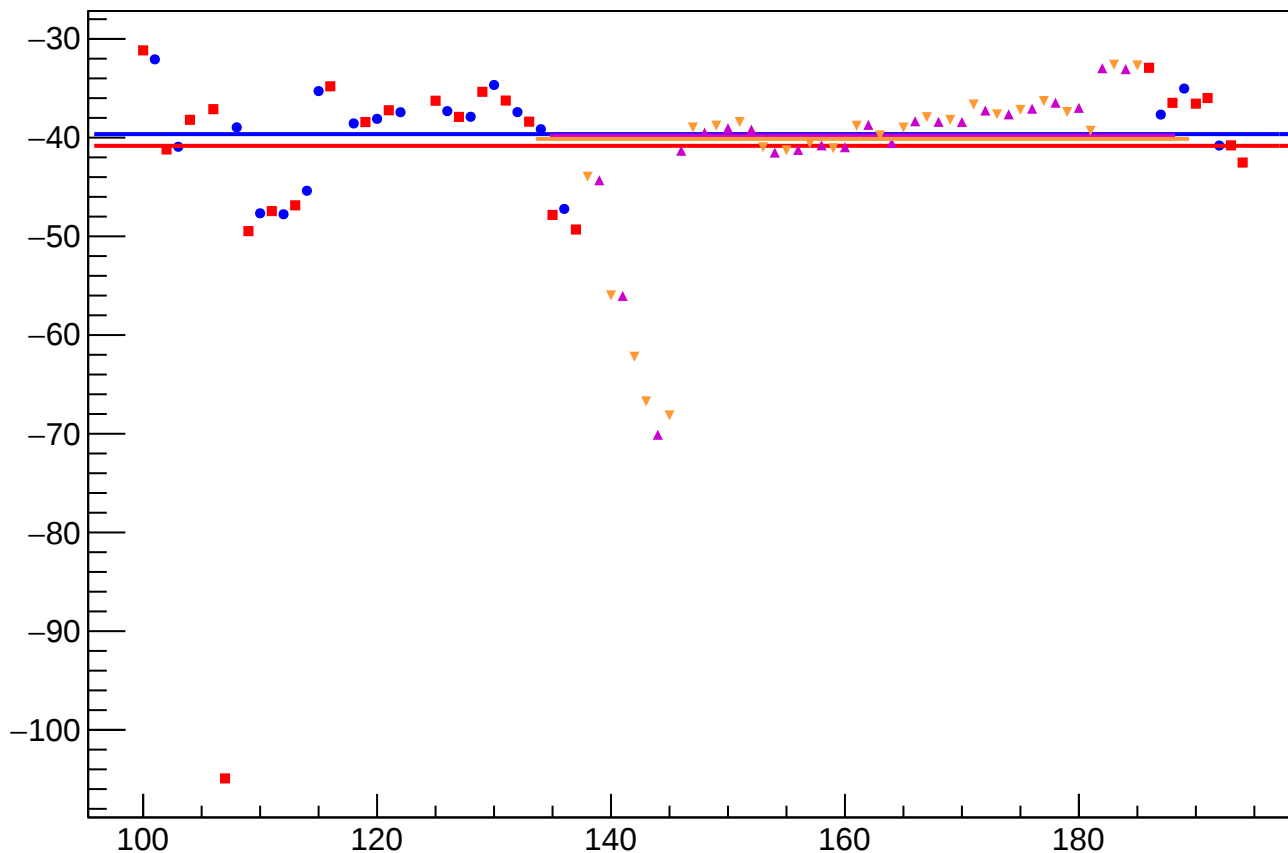
Right: 8.835 $\pm$ 0.343 χ^2 /NDF: 1139.4/42

In: 14.792 $\pm$ 0.279 χ^2 /NDF: 1152.5/41

Out: 14.217 $\pm$ 0.275 χ^2 /NDF: 1076.1/48

All: 14.501 $\pm$ 0.196 χ^2 /NDF: 2230.7/90

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.645 ± 0.029 χ^2/NDF : 27555.0/18

Left Out: -40.126 ± 0.016 χ^2/NDF : 185897.0/24

Right Out: -40.830 ± 0.026 χ^2/NDF : 100847.5/23

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.955 ± 0.011 χ^2/NDF : 330628.3/47

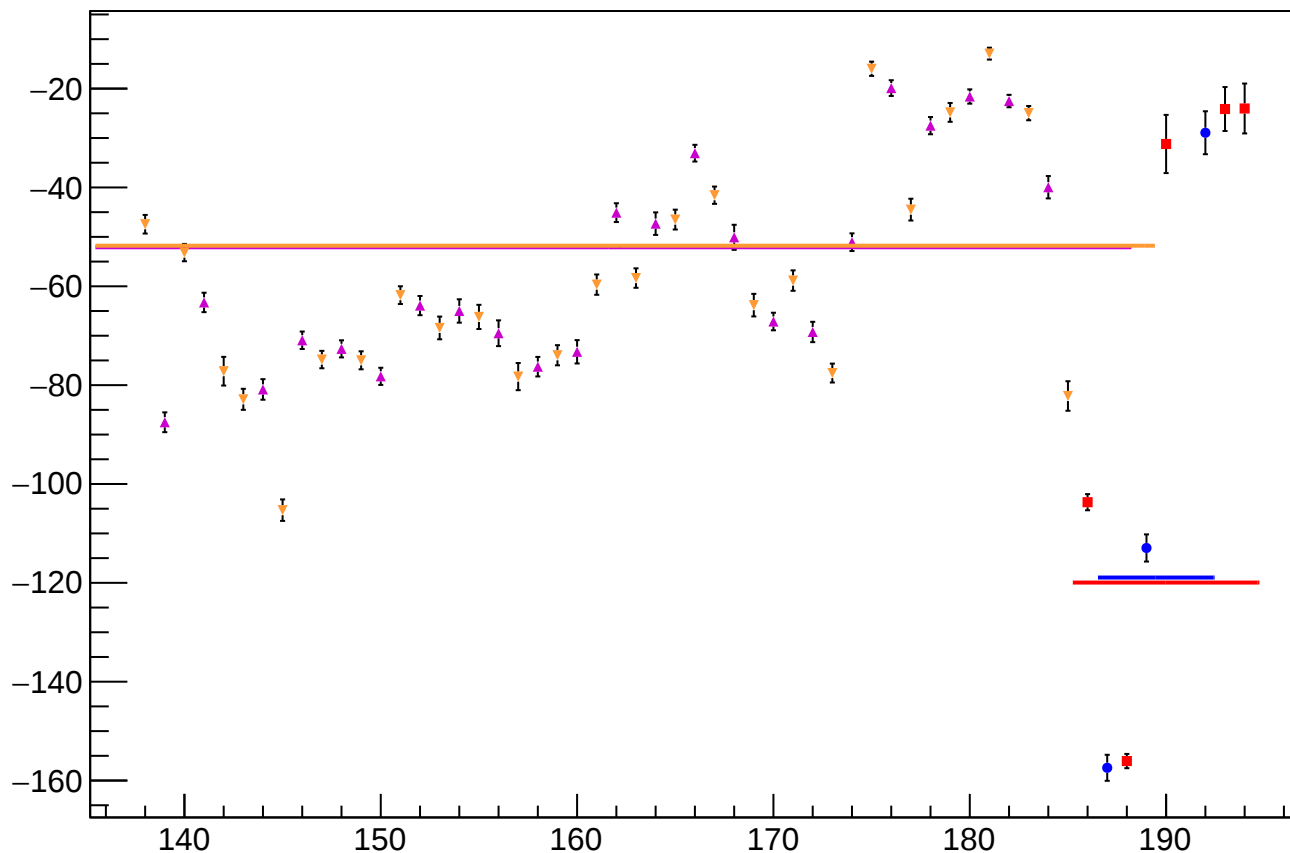
Right: -40.297 ± 0.019 χ^2/NDF : 129339.9/42

In: -39.753 ± 0.014 χ^2/NDF : 172067.7/41

Out: -40.315 ± 0.013 χ^2/NDF : 287283.3/48

All: -40.040 ± 0.010 χ^2/NDF : 460205.9/90

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -118.927 ± 1.742 χ^2/NDF : 647.7/2

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -119.945 ± 1.014 χ^2/NDF : 1776.2/4

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

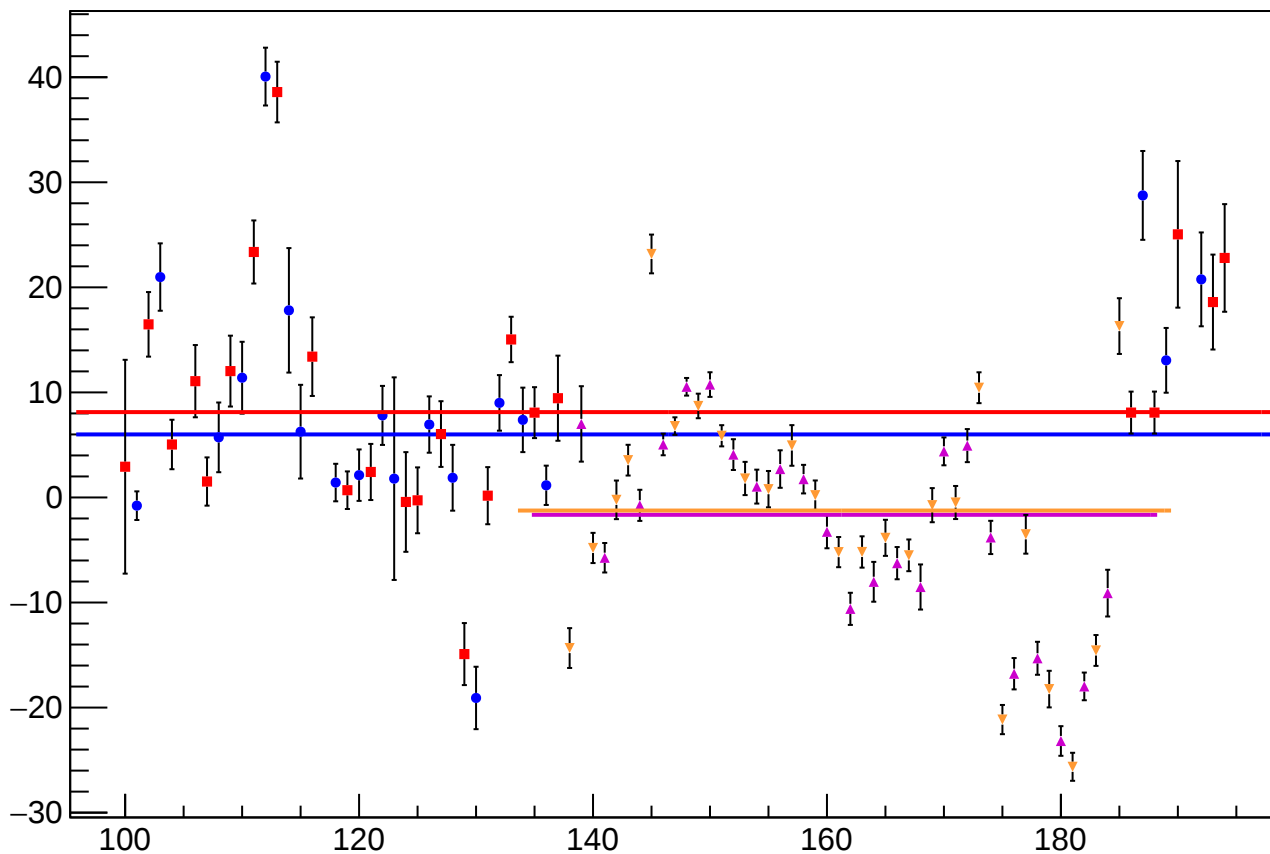
Right: -119.687 ± 0.876 χ^2/NDF : 2424.1/7

In: -55.274 ± 0.379 χ^2/NDF : 5330.1/25

Out: -60.284 ± 0.358 χ^2/NDF : 9896.8/29

All: -57.924 ± 0.260 χ^2/NDF : 15319.2/55

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.000 ± 0.604 χ^2/NDF : 342.4/19

Left Out: -1.245 ± 0.292 χ^2/NDF : 1322.6/24

Right Out: 8.125 ± 0.581 χ^2/NDF : 290.8/23

Left In: -1.650 ± 0.300 χ^2/NDF : 1092.2/22

Left: -1.442 ± 0.209 χ^2/NDF : 2415.8/47

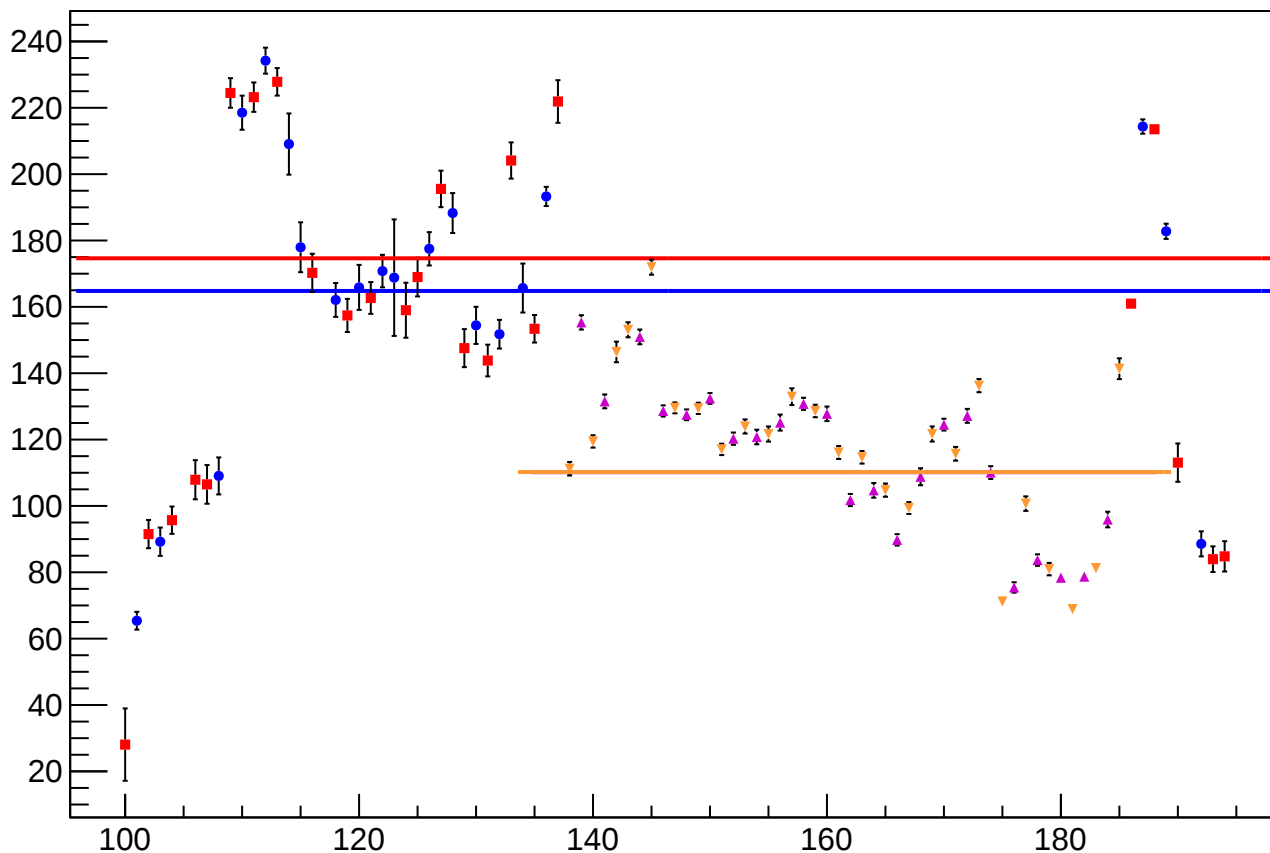
Right: 7.104 ± 0.419 χ^2/NDF : 639.7/43

In: -0.135 ± 0.269 χ^2/NDF : 1563.3/42

Out: 0.643 ± 0.261 χ^2/NDF : 1821.4/48

All: 0.266 ± 0.187 χ^2/NDF : 3389.0/91

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 164.797 $\pm$ 0.902 χ^2 /NDF: 3360.7/19

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 174.640 $\pm$ 0.675 χ^2 /NDF: 4095.6/23

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

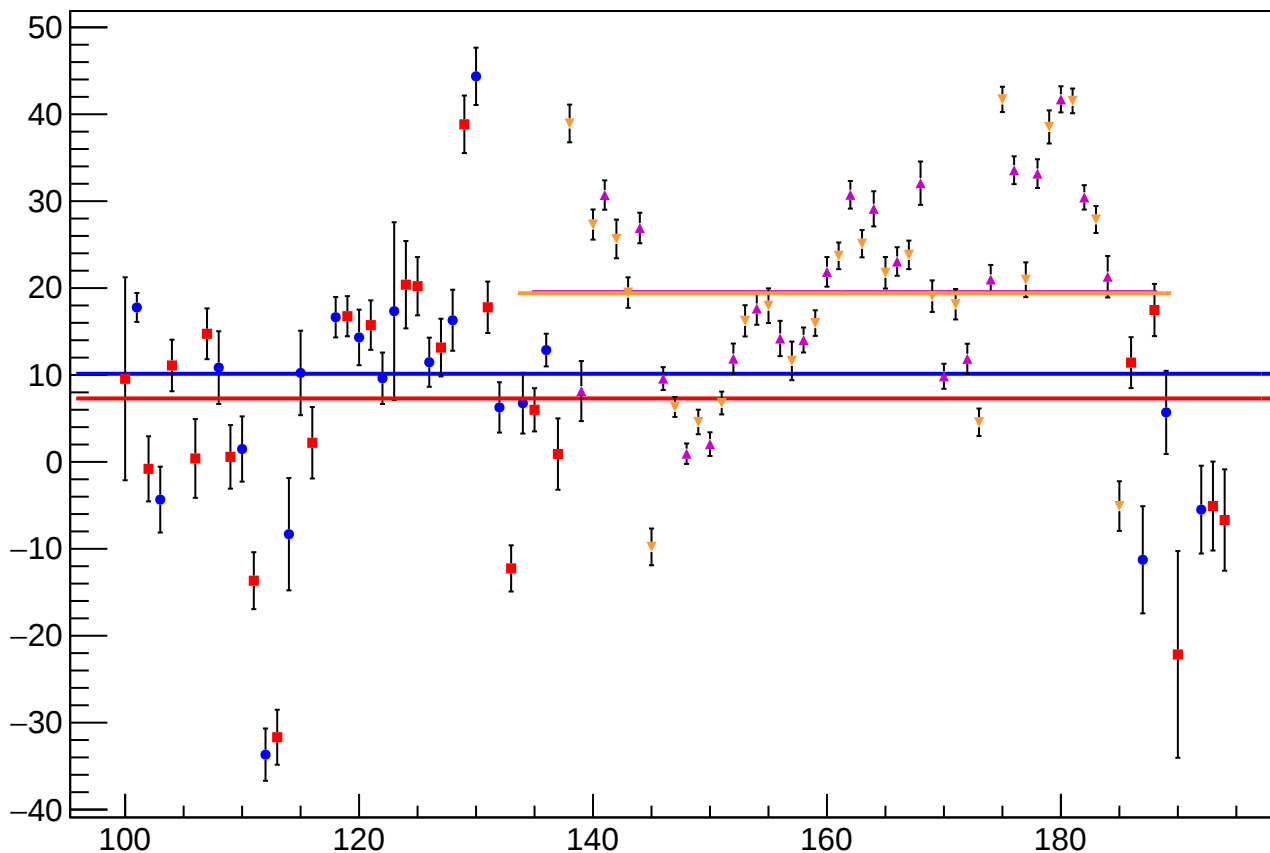
Right: 171.108 $\pm$ 0.541 χ^2 /NDF: 7532.6/43

In: 118.618 $\pm$ 0.355 χ^2 /NDF:10160.7/42

Out: 125.843 $\pm$ 0.332 χ^2 /NDF:15588.7/48

All: 122.466 $\pm$ 0.243 χ^2 /NDF: 25970.0/91

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.142 ± 0.701 $\chi^2/\text{NDF}: 409.8/19$

Left Out: 19.405 ± 0.335 $\chi^2/\text{NDF}: 1453.4/24$

Right Out: 7.304 ± 0.692 $\chi^2/\text{NDF}: 454.7/23$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

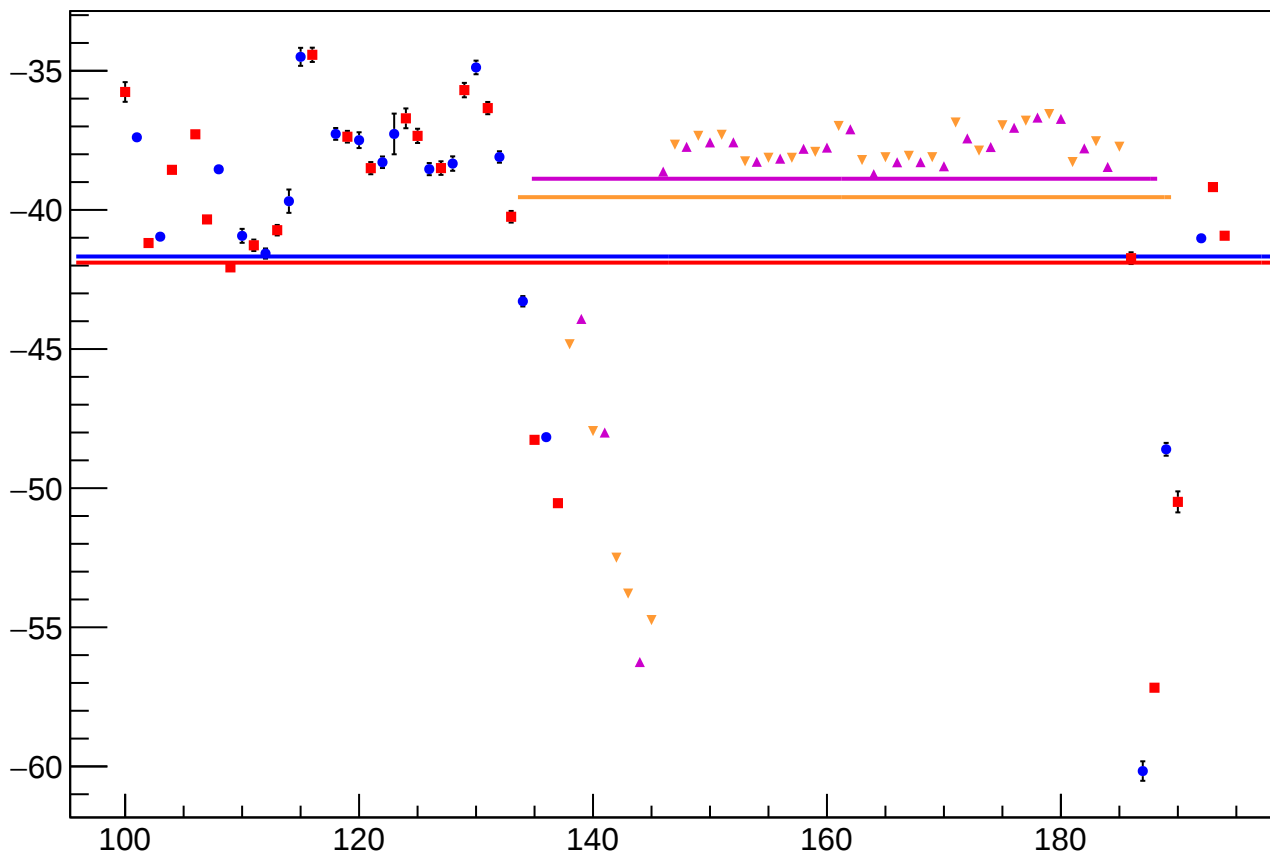
Right: 8.705 ± 0.493 $\chi^2/\text{NDF}: 872.7/43$

In: 17.721 ± 0.308 $\chi^2/\text{NDF}: 1735.9/42$

Out: 17.113 ± 0.301 $\chi^2/\text{NDF}: 2155.7/48$

All: 17.411 ± 0.215 $\chi^2/\text{NDF}: 3893.5/91$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.674 ± 0.037 $\chi^2/\text{NDF}: 16309.5/19$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.894 ± 0.035 $\chi^2/\text{NDF}: 22517.1/23$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

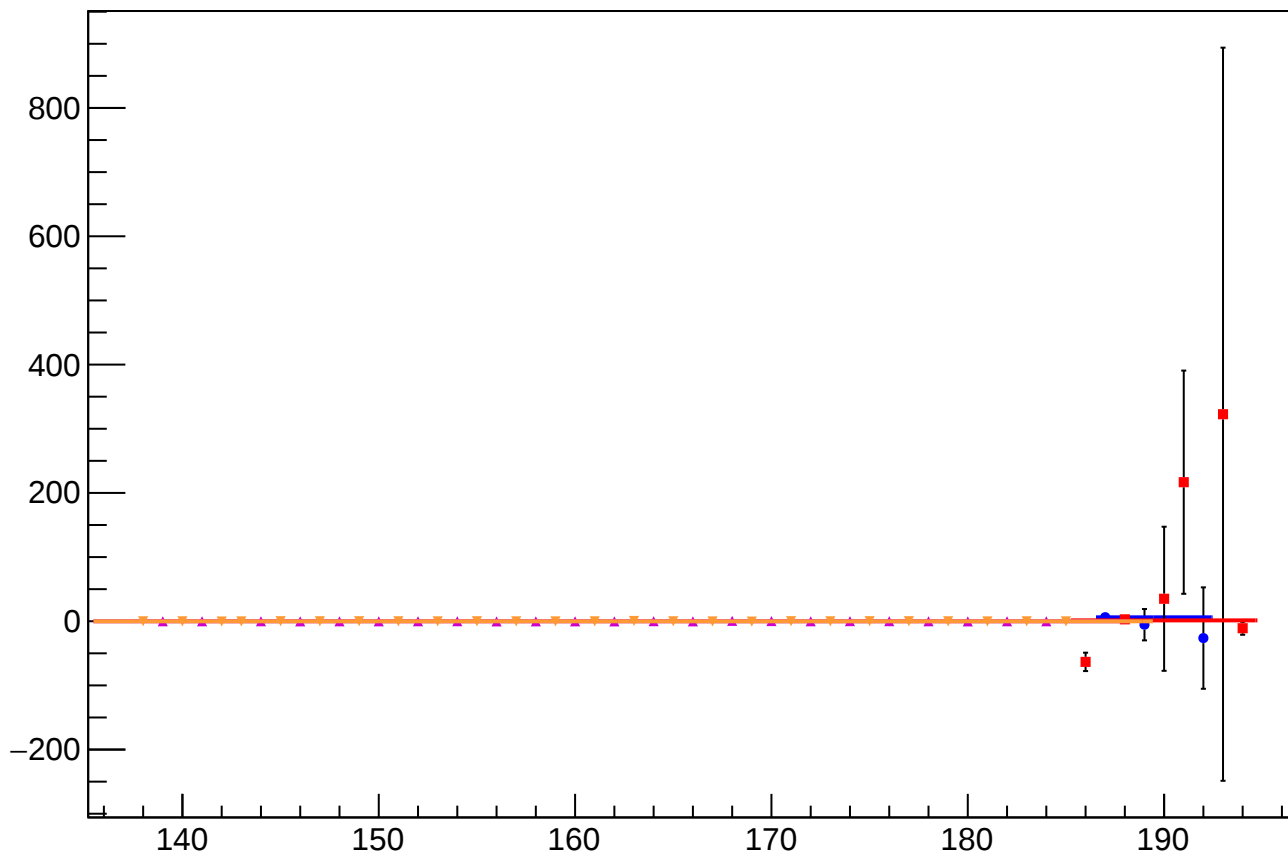
Right: -41.790 ± 0.025 $\chi^2/\text{NDF}: 38845.3/43$

In: -39.316 ± 0.015 $\chi^2/\text{NDF}: 74567.5/42$

Out: -39.935 ± 0.014 $\chi^2/\text{NDF}: 118279.5/48$

All: -39.630 ± 0.010 $\chi^2/\text{NDF}: 193761.7/91$

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.084 ± 2.982 $\chi^2/\text{NDF}: 0.4/2$

Left Out: -0.095 ± 0.022 $\chi^2/\text{NDF}: 41.8/24$

Right Out: 1.349 ± 1.910 $\chi^2/\text{NDF}: 24.5/5$

Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.061 ± 0.016 $\chi^2/\text{NDF}: 80.1/47$

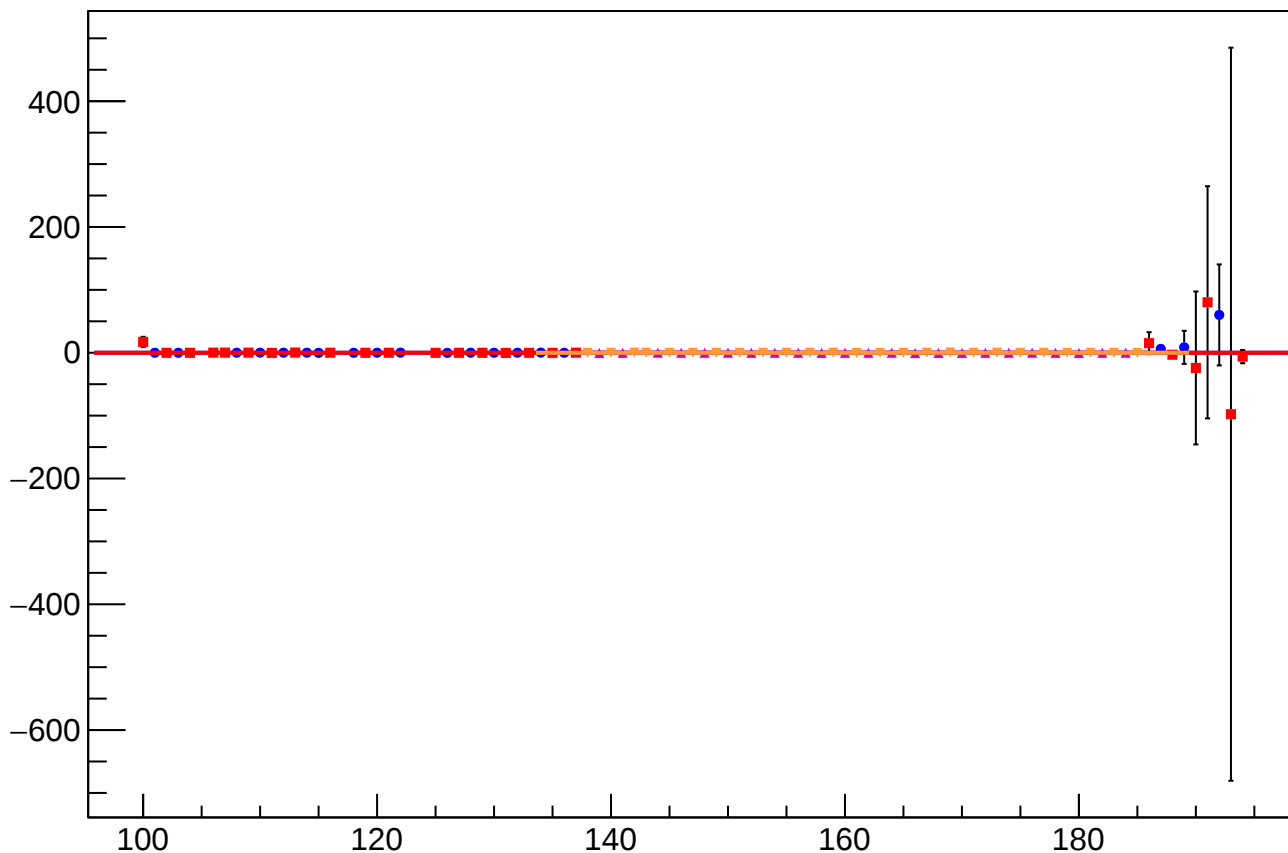
Right: 2.726 ± 1.608 $\chi^2/\text{NDF}: 26.6/8$

In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 37.9/25$

Out: -0.095 ± 0.022 $\chi^2/\text{NDF}: 66.9/30$

All: -0.061 ± 0.016 $\chi^2/\text{NDF}: 109.8/56$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 $\chi^2/\text{NDF}: 14.9/18$

Left Out: -0.078 ± 0.017 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -0.050 ± 0.029 $\chi^2/\text{NDF}: 27.8/23$

Left In: -0.052 ± 0.018 $\chi^2/\text{NDF}: 31.7/22$

Left: -0.065 ± 0.012 $\chi^2/\text{NDF}: 59.4/47$

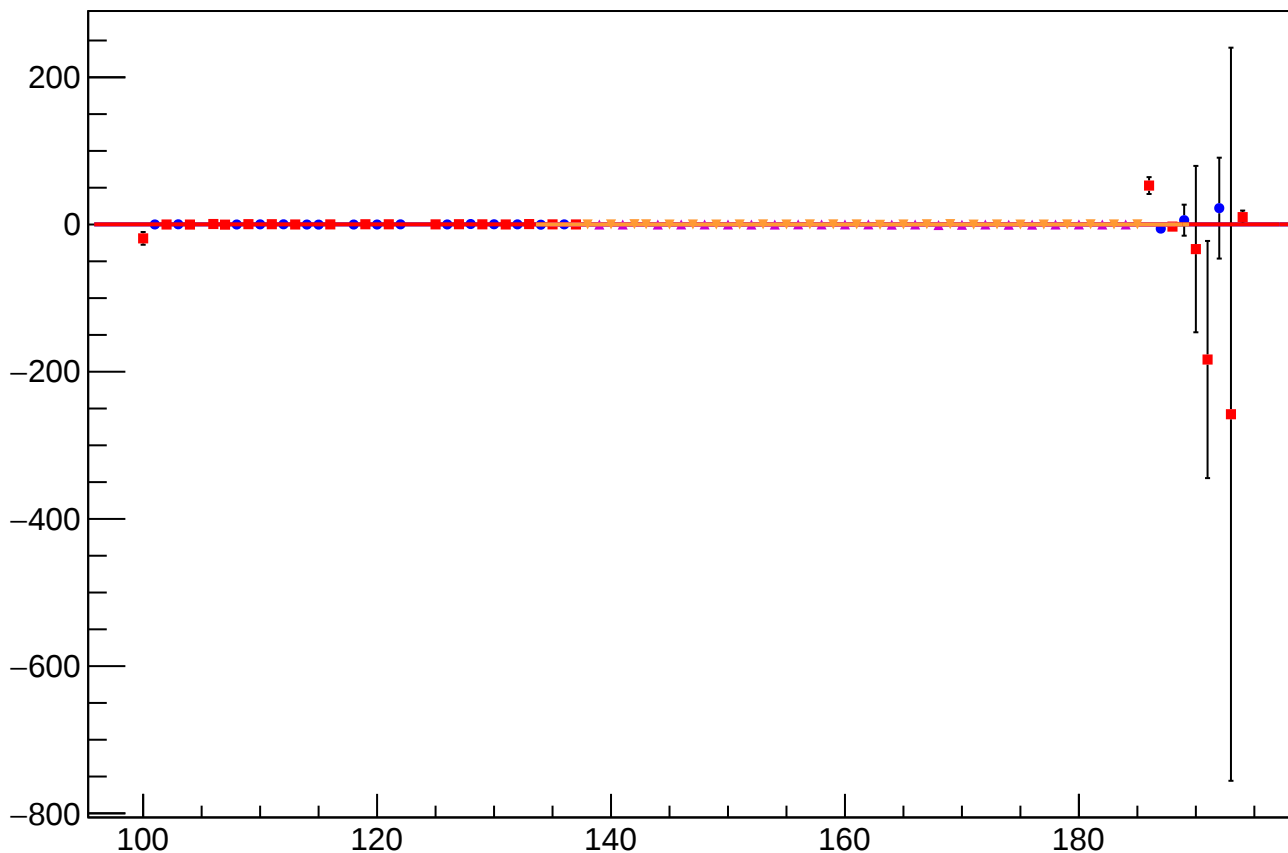
Right: -0.025 ± 0.020 $\chi^2/\text{NDF}: 44.2/42$

In: -0.038 ± 0.015 $\chi^2/\text{NDF}: 48.9/41$

Out: -0.071 ± 0.015 $\chi^2/\text{NDF}: 55.1/48$

All: -0.055 ± 0.010 $\chi^2/\text{NDF}: 106.4/90$

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 18.0/18

Left Out: 0.088 $\pm$ 0.022 χ^2 /NDF:40.7/24

Right Out: 0.233 $\pm$ 0.054 χ^2 /NDF: 49.2/23

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.055 $\pm$ 0.015 χ^2 /NDF: 81.0/47

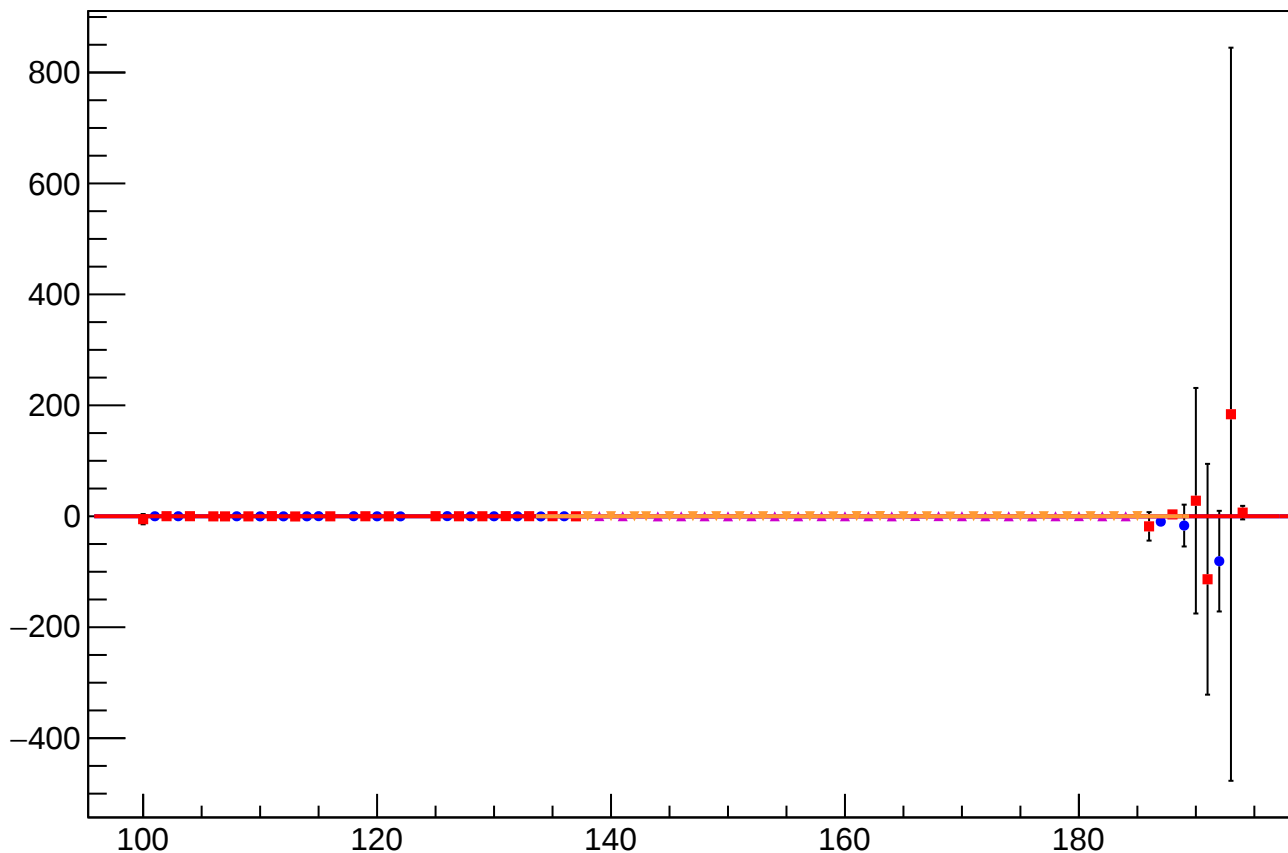
Right: 0.202 $\pm$ 0.038 χ^2 /NDF: 67.9/42

In: 0.043 $\pm$ 0.020 χ^2 /NDF:60.6/41

Out: 0.108 $\pm$ 0.020 χ^2 /NDF:96.3/48

All: 0.076 $\pm$ 0.014 χ^2 /NDF: 161.9/90

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 $\chi^2/\text{NDF}: 16.9/18$

Left Out: 0.102 ± 0.019 $\chi^2/\text{NDF}: 30.2/24$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 22.0/23$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.086 ± 0.014 $\chi^2/\text{NDF}: 63.0/47$

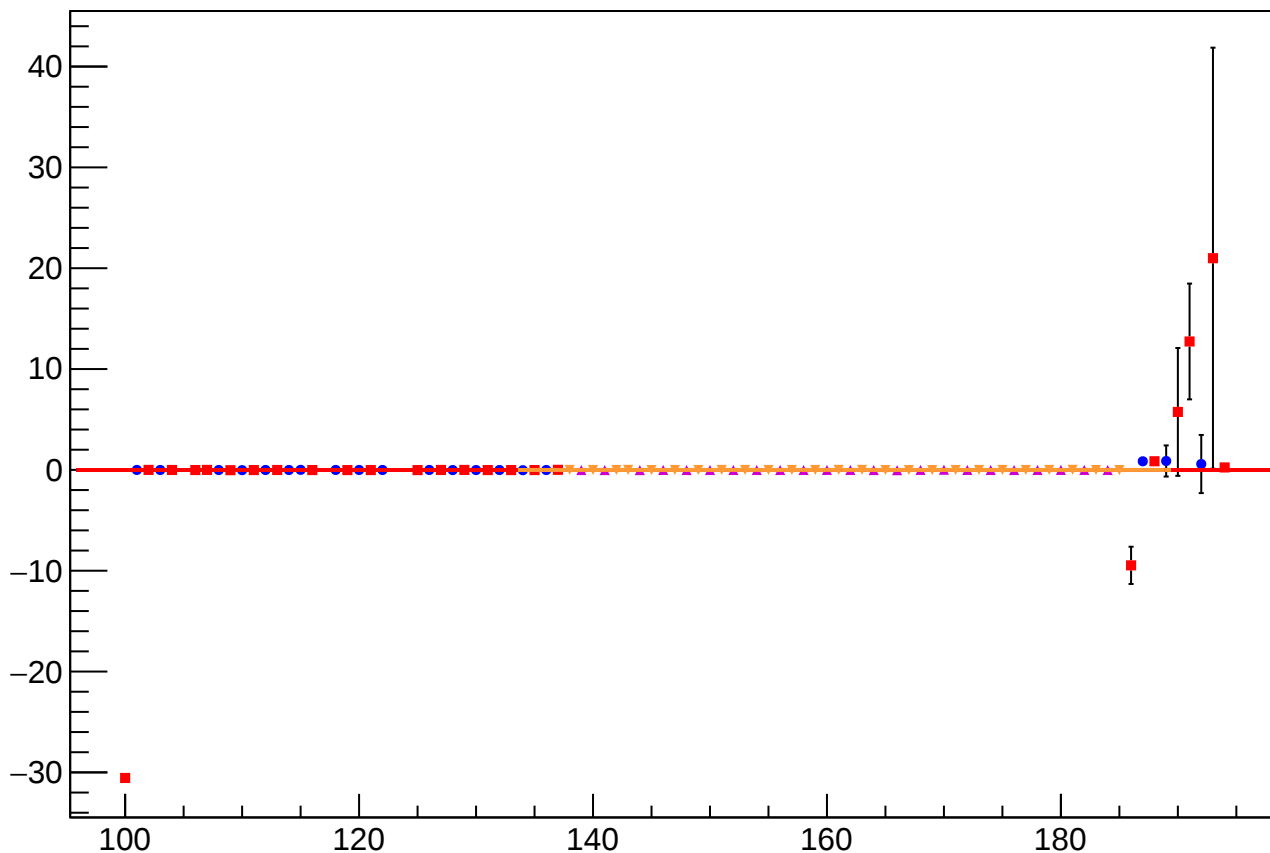
Right: 0.024 ± 0.024 $\chi^2/\text{NDF}: 40.8/42$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 52.1/41$

Out: 0.091 ± 0.017 $\chi^2/\text{NDF}: 53.5/48$

All: 0.070 ± 0.012 $\chi^2/\text{NDF}: 108.8/90$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 17.8/18

Left Out: -0.008 ± 0.001 χ^2/NDF : 34.7/24

Right Out: -0.012 ± 0.002 χ^2/NDF : 11937.1/23

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 76.4/47

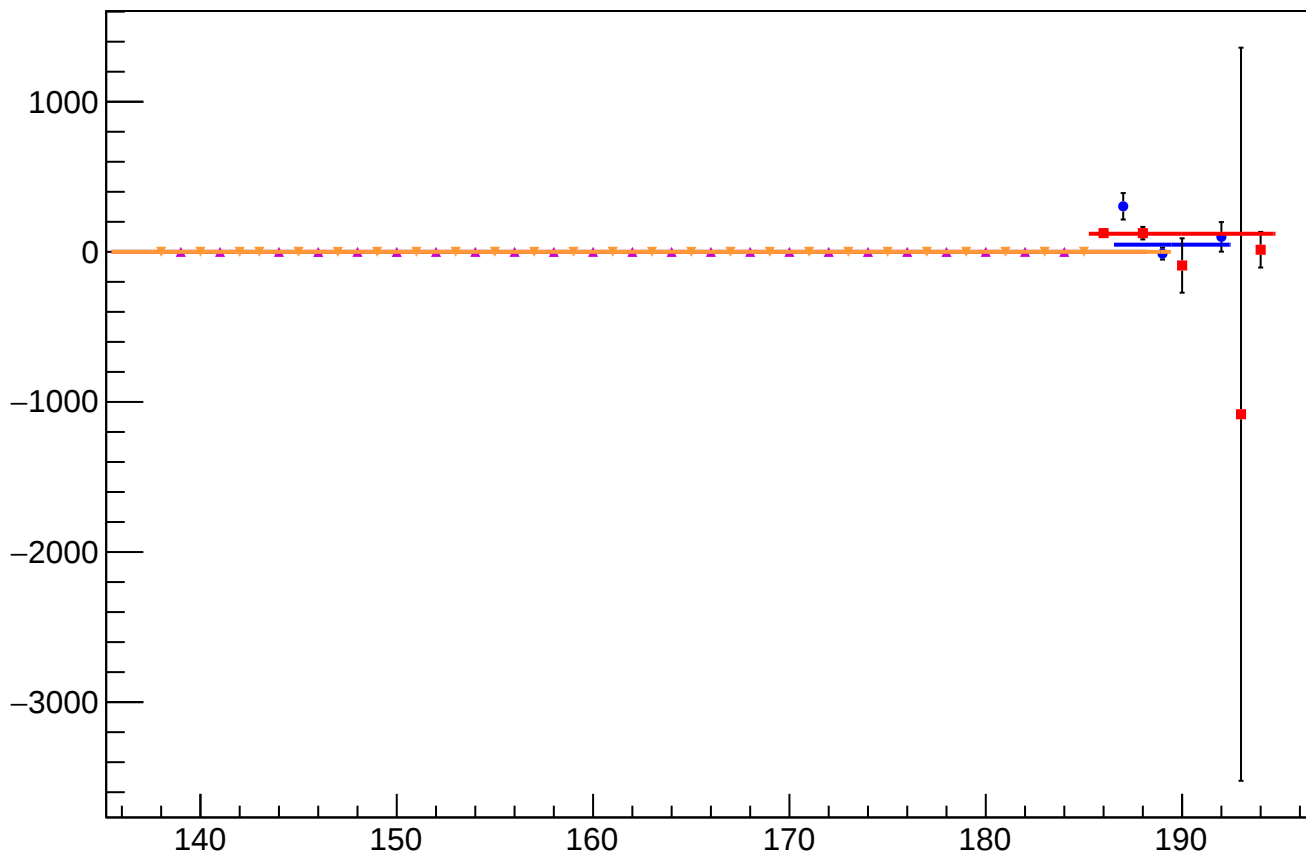
Right: -0.012 ± 0.001 χ^2/NDF : 11955.0/42

In: -0.009 ± 0.001 χ^2/NDF : 61.0/41

Out: -0.008 ± 0.001 χ^2/NDF : 11976.6/48

All: -0.009 ± 0.001 χ^2/NDF : 12038.3/90

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 47.687+/-33.835 χ^2/NDF : 11.0/2

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 120.475+/-16.899 χ^2/NDF : 2.5/4

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

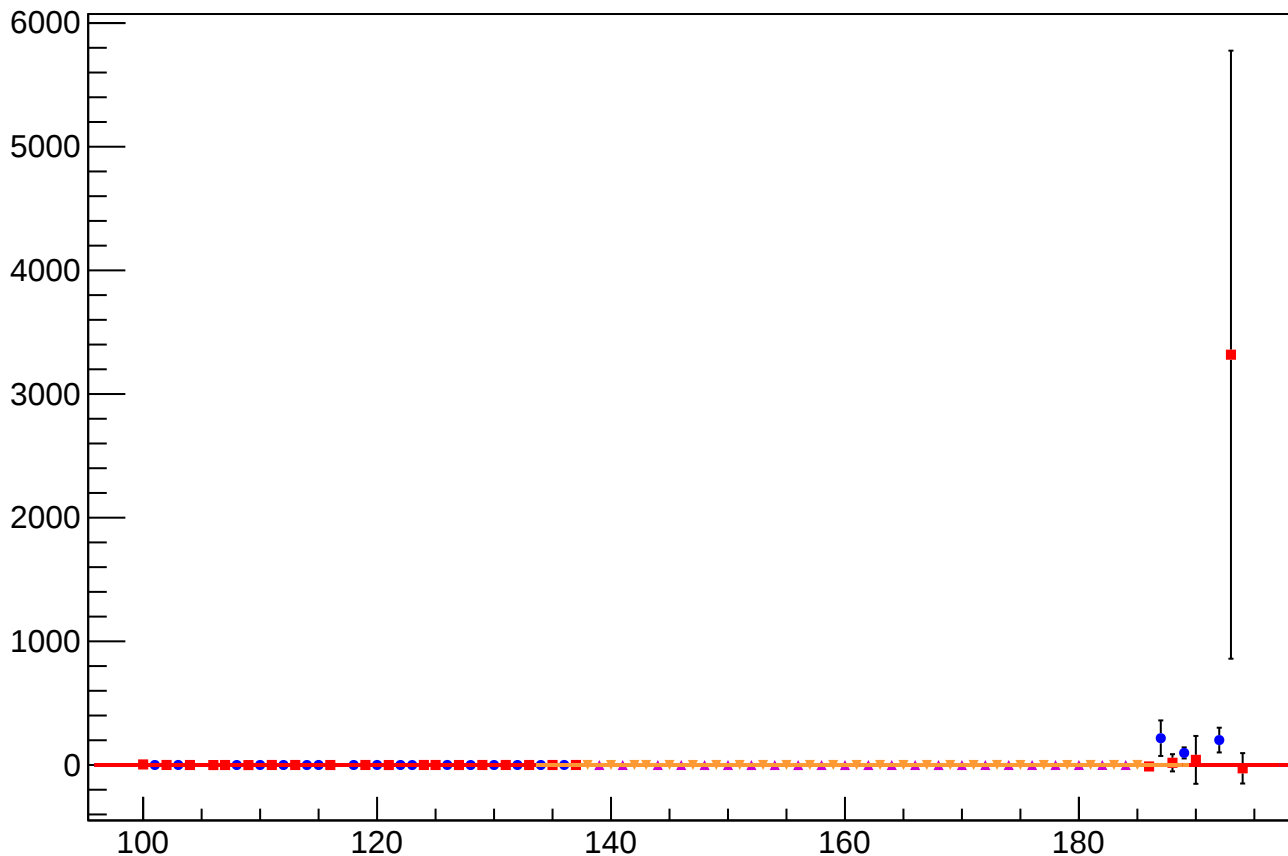
Right: 105.943+/-15.118 χ^2/NDF : 17.1/7

In: 0.002+/-0.028 χ^2/NDF :42.0/25

Out: 0.018+/-0.027 χ^2/NDF :84.2/29

All: 0.010+/-0.019 χ^2/NDF : 126.3/55

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 34.0/19

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 20.7/23

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

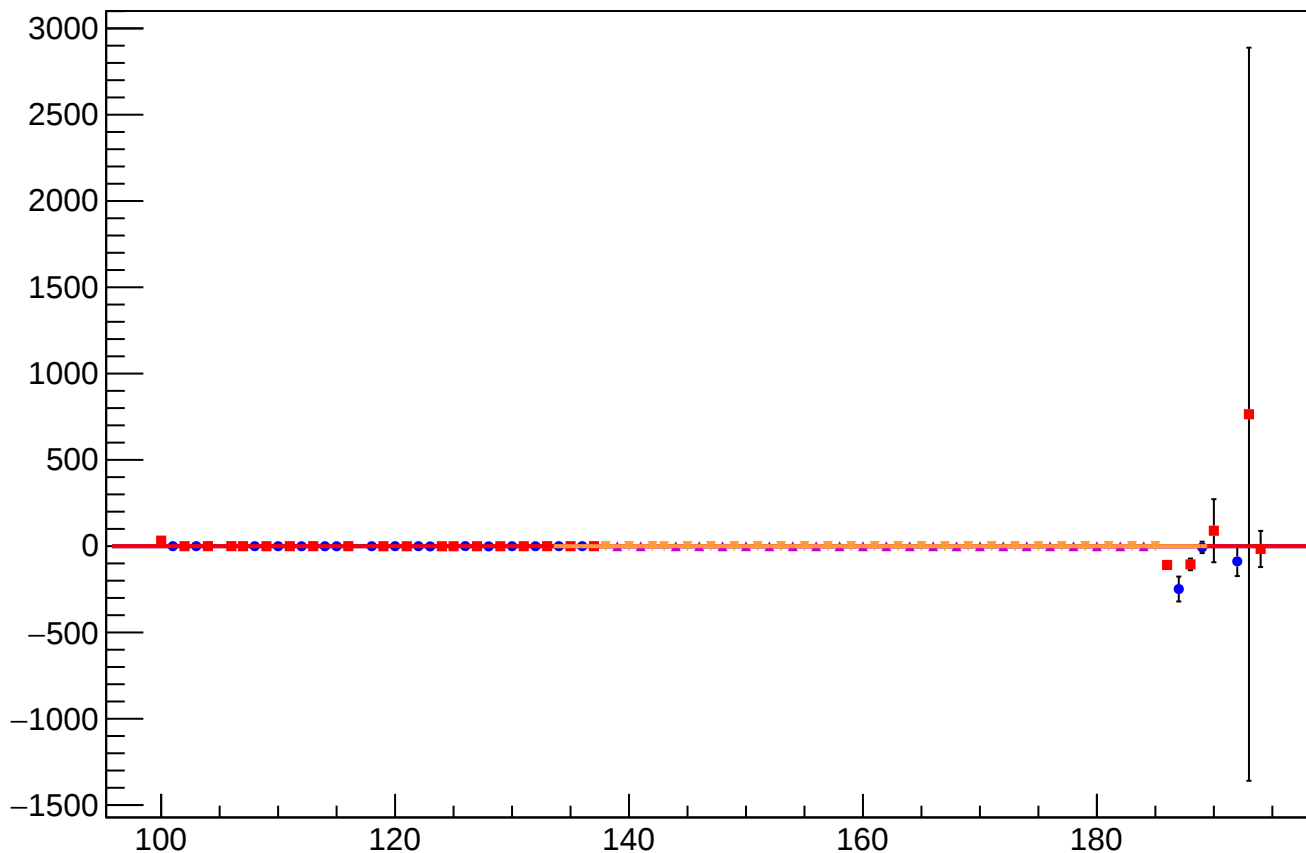
Right: -0.068 ± 0.027 χ^2/NDF : 58.1/43

In: -0.058 ± 0.019 χ^2/NDF : 84.3/42

Out: -0.073 ± 0.019 χ^2/NDF : 47.2/48

All: -0.066 ± 0.013 χ^2/NDF : 131.8/91

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 37.7/19$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 76.2/23$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

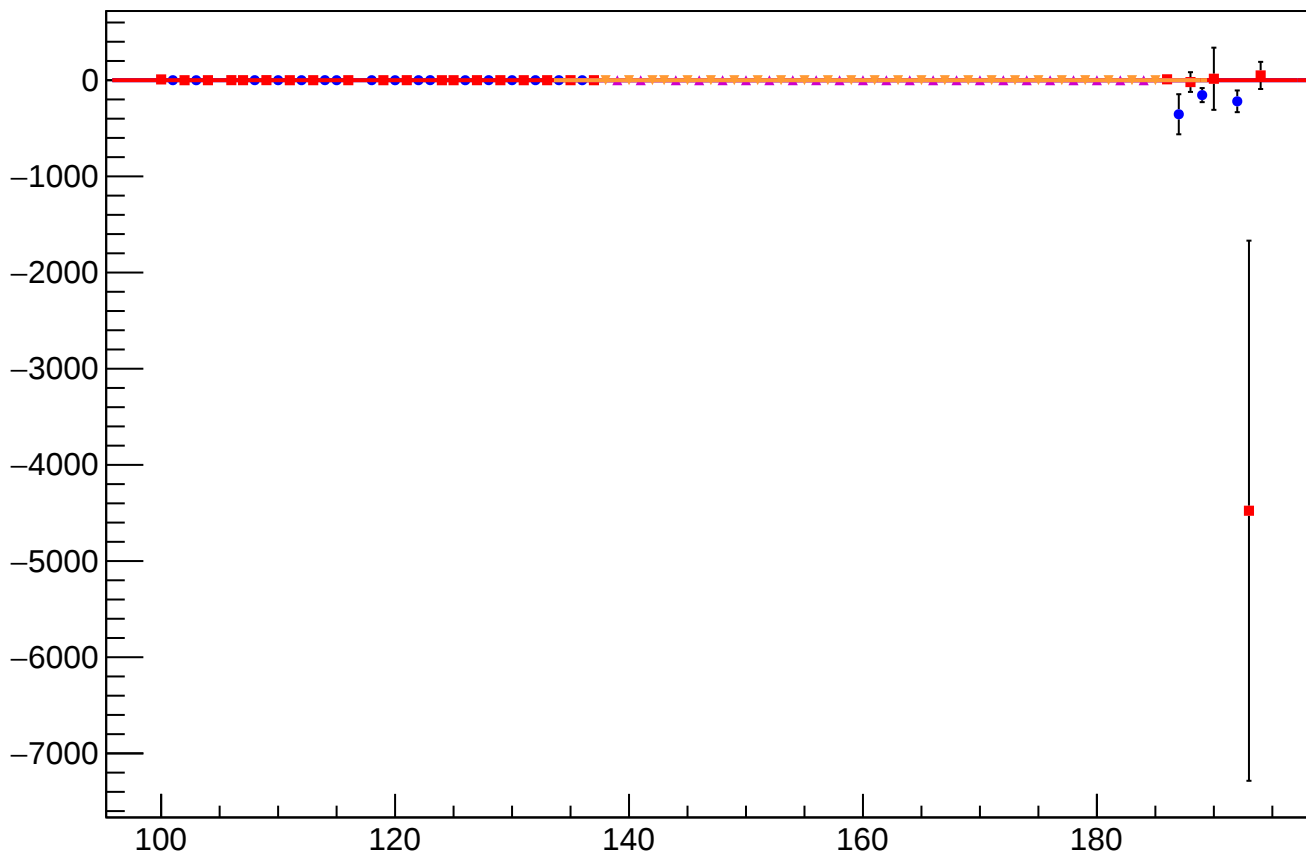
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 114.0/43$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 68.1/42$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 109.1/48$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 177.3/91$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018+/-0.043 χ^2/NDF : 32.7/19

Left Out: 0.063+/-0.024 χ^2/NDF : 24.6/24

Right Out: 0.144+/-0.045 χ^2/NDF : 19.6/23

Left In: 0.069+/-0.025 χ^2/NDF : 51.8/22

Left: 0.066+/-0.017 χ^2/NDF : 76.5/47

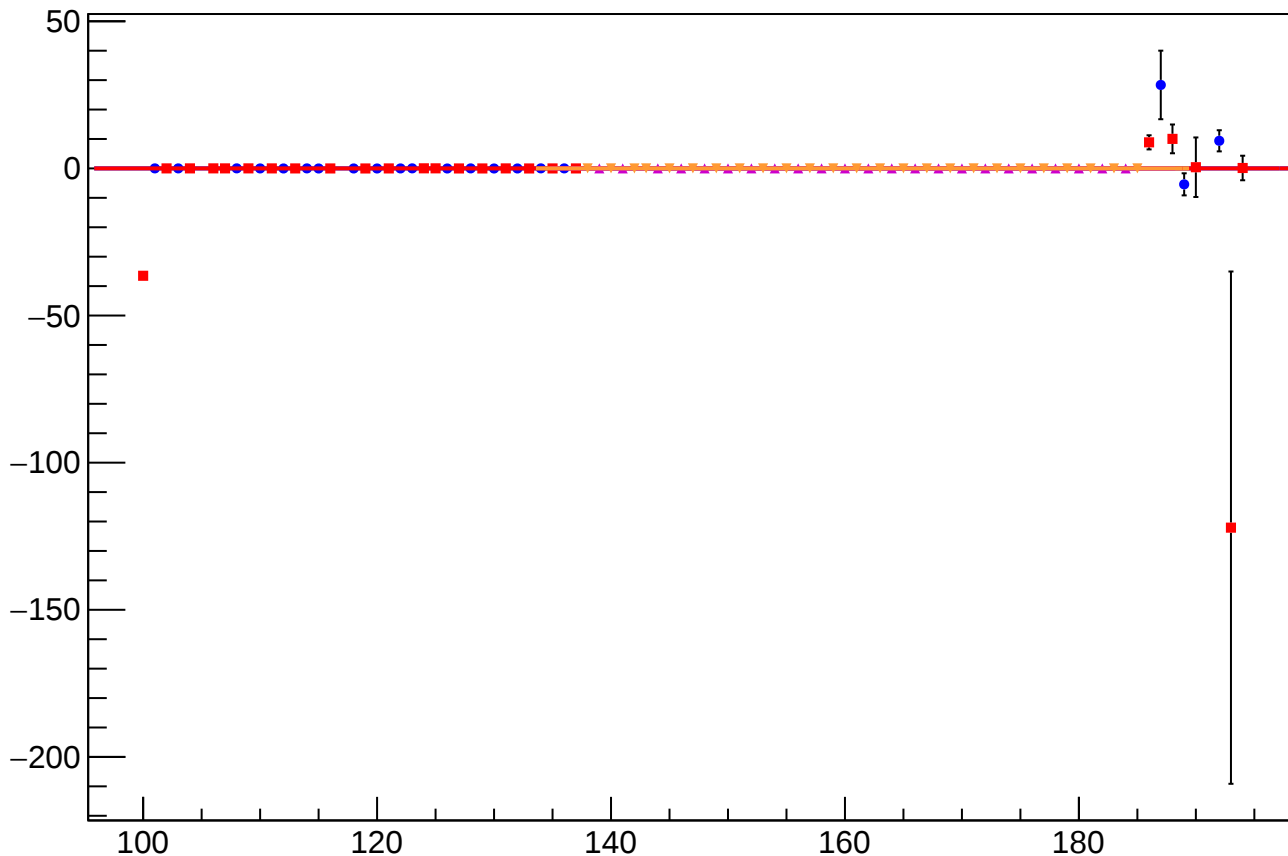
Right: 0.077+/-0.031 χ^2/NDF : 56.4/43

In: 0.056+/-0.021 χ^2/NDF : 85.6/42

Out: 0.081+/-0.021 χ^2/NDF : 46.7/48

All: 0.069+/-0.015 χ^2/NDF : 133.0/91

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 45.3/19

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10468.9/23

Left In: 0.009 $\pm$ 0.001 χ^2 /NDF: 15.0/22

Left: 0.009 $\pm$ 0.001 χ^2 /NDF: 41.4/47

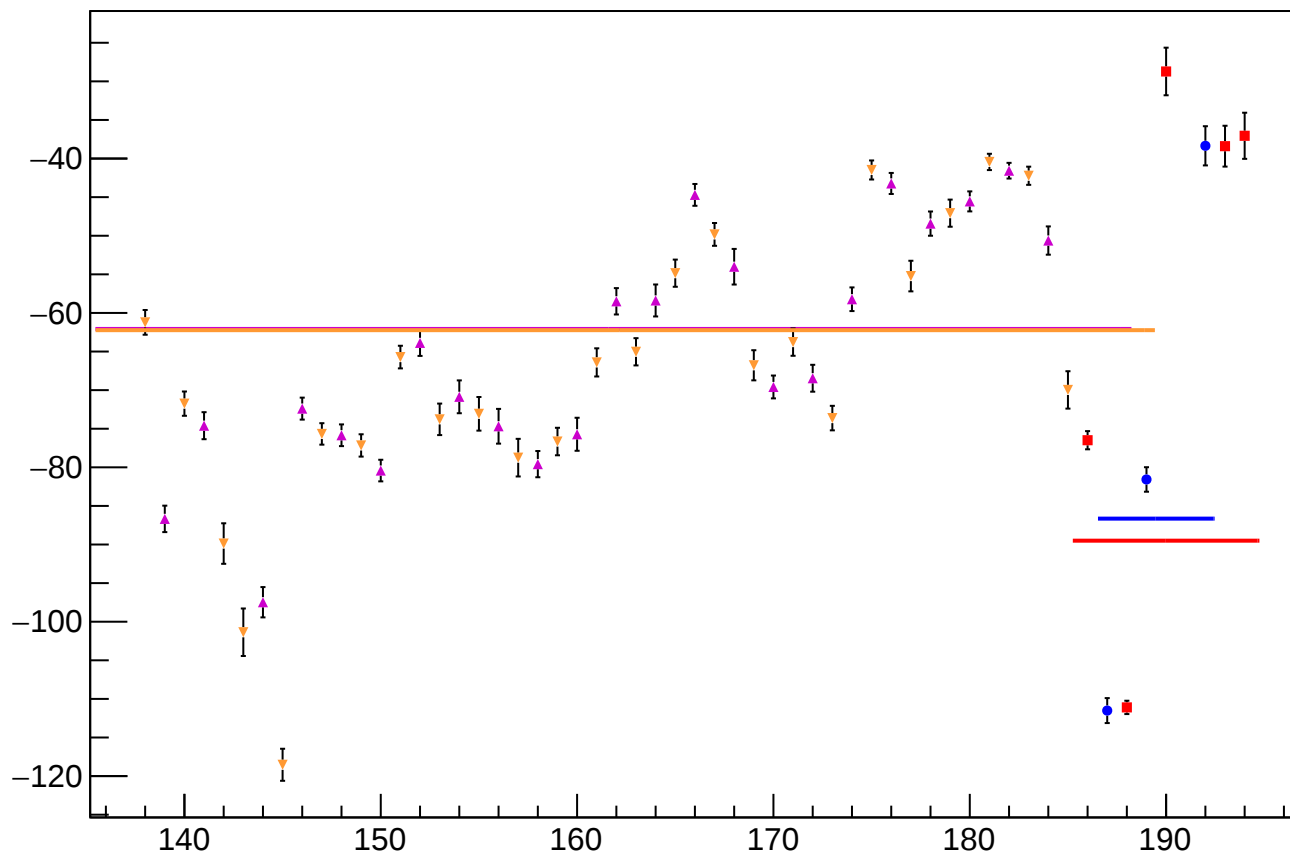
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10514.2/43

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 69.8/42

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10504.1/48

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10574.1/91

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected

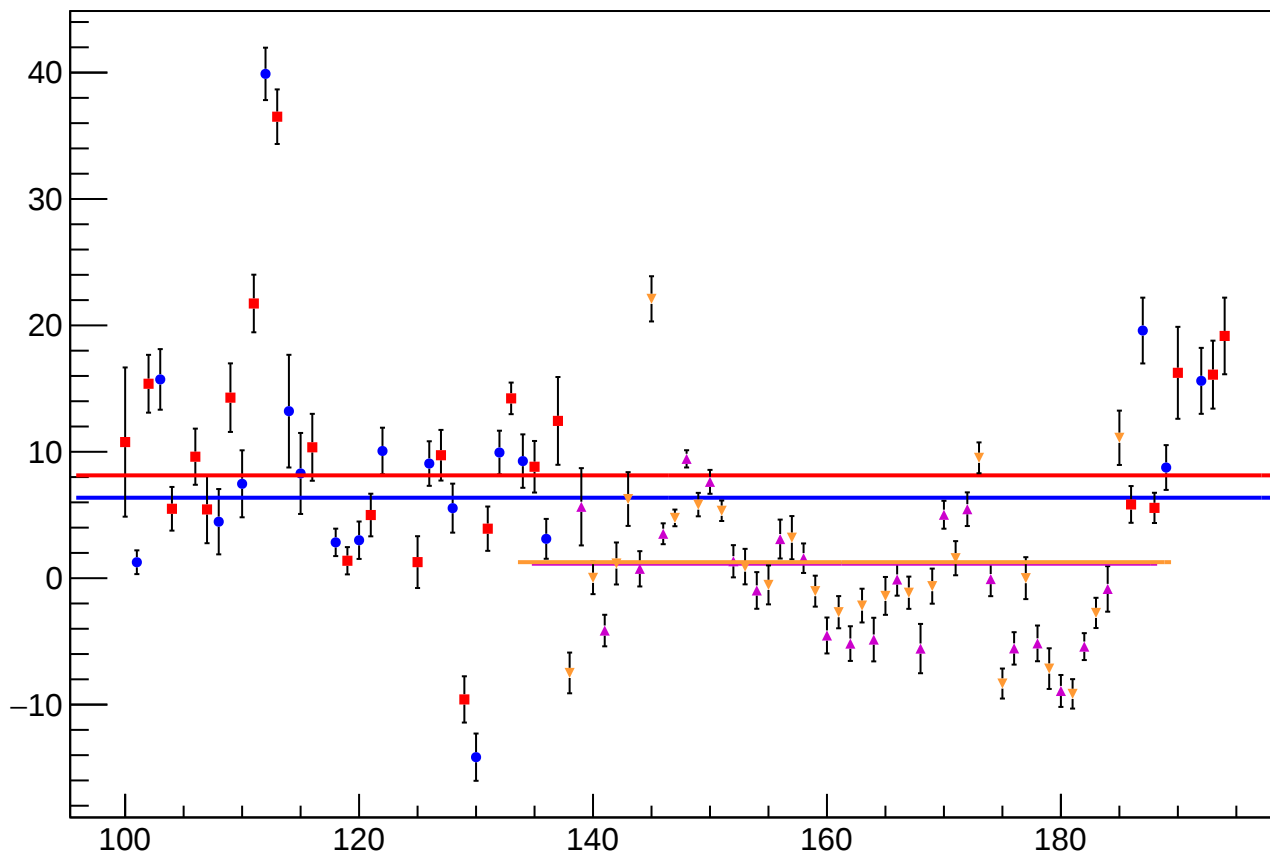


Right In: -86.645 ± 1.035 χ^2/NDF : 608.4/2
 Left Out: -62.232 ± 0.332 χ^2/NDF : 2668.5/24
 Right Out: -89.502 ± 0.643 χ^2/NDF : 1816.4/4
 Left In: -62.073 ± 0.332 χ^2/NDF : 2192.0/22

Left: -62.153 ± 0.235 χ^2/NDF : 4860.6/47
 Right: -88.706 ± 0.546 χ^2/NDF : 2430.2/7
 In: -64.371 ± 0.316 χ^2/NDF : 3311.6/25
 Out: -67.971 ± 0.295 χ^2/NDF : 5905.5/29

All: -66.298 ± 0.216 χ^2/NDF : 9286.4/55

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.367 ± 0.407 χ^2/NDF : 503.3/18

Left Out: 1.269 ± 0.251 χ^2/NDF : 531.9/24

Right Out: 8.135 ± 0.396 χ^2/NDF : 441.8/22

Left In: 1.146 ± 0.255 χ^2/NDF : 462.9/22

Left: 1.208 ± 0.179 χ^2/NDF : 995.0/47

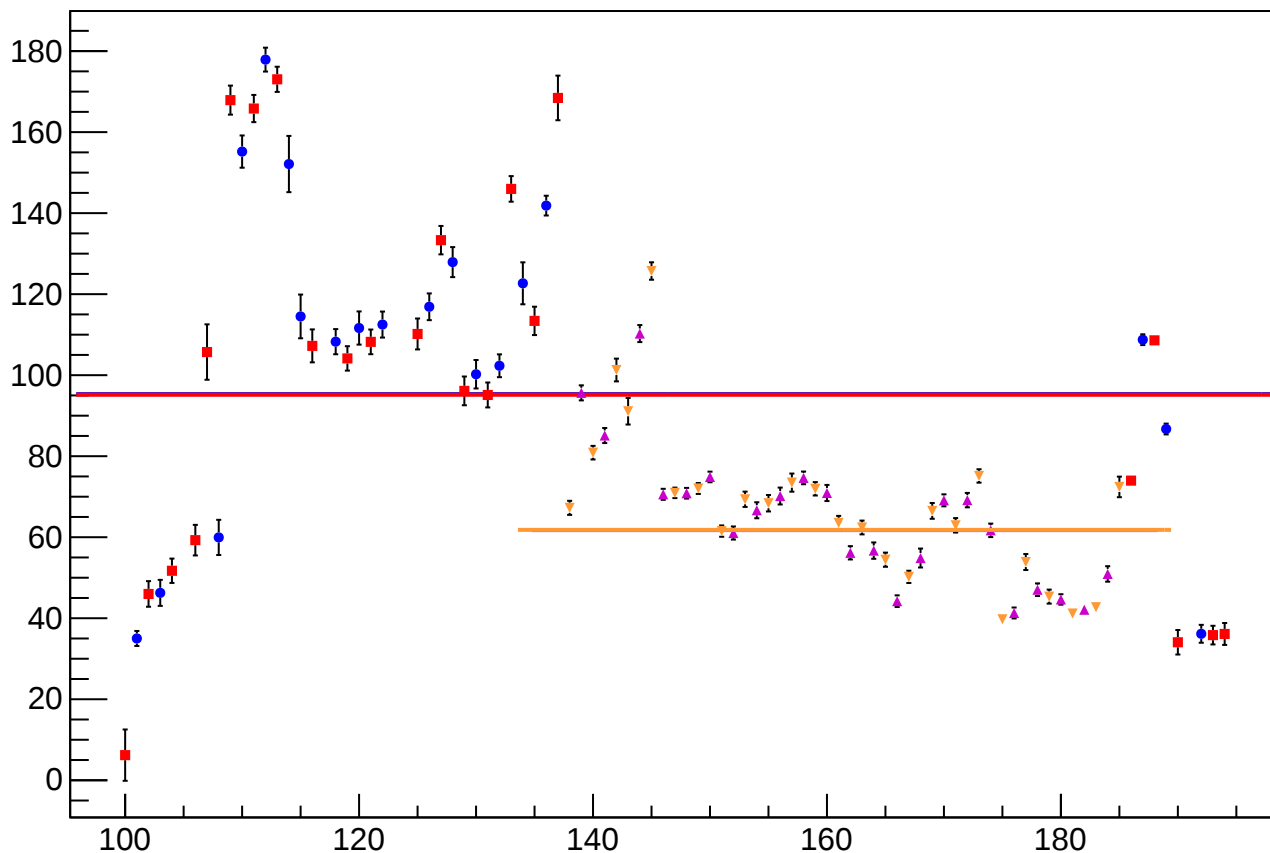
Right: 7.275 ± 0.284 χ^2/NDF : 954.7/41

In: 2.619 ± 0.216 χ^2/NDF : 1084.1/41

Out: 3.232 ± 0.212 χ^2/NDF : 1188.0/47

All: 2.931 ± 0.151 χ^2/NDF : 2276.2/89

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 95.317 $\pm$ 0.593 χ^2 /NDF: 3893.1/18

Left Out: 61.812 $\pm$ 0.331 χ^2 /NDF:2686.4/24

Right Out: 95.180 $\pm$ 0.444 χ^2 /NDF: 5285.2/22

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF:2418.2/22

Left: 61.787 $\pm$ 0.234 χ^2 /NDF: 5104.6/47

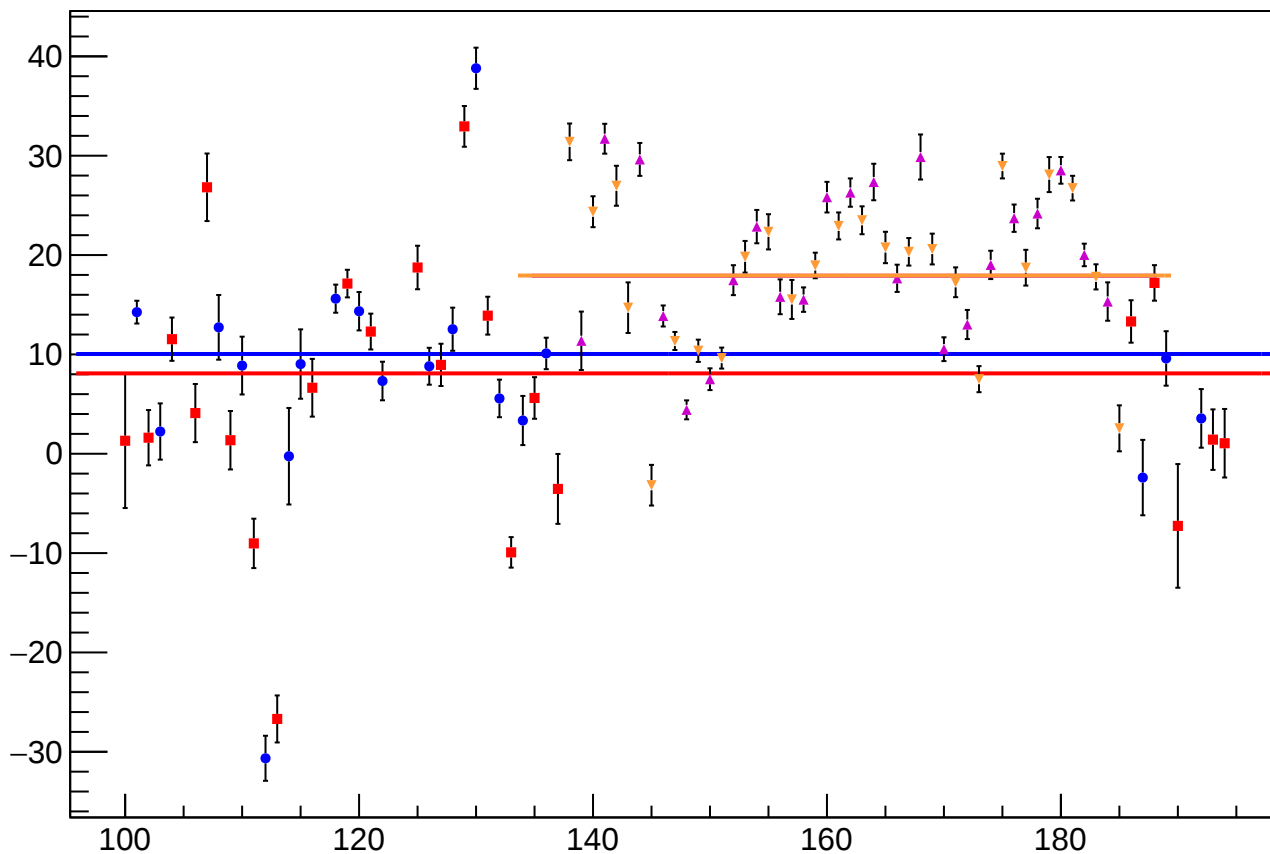
Right: 95.229 $\pm$ 0.356 χ^2 /NDF: 9178.3/41

In: 69.700 $\pm$ 0.288 χ^2 /NDF:8757.6/41

Out: 73.700 $\pm$ 0.265 χ^2 /NDF:11600.2/47

All: 71.866 $\pm$ 0.195 χ^2 /NDF: 20462.0/89

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.041 ± 0.480 $\chi^2/\text{NDF}: 594.2/18$

Left Out: 17.937 ± 0.289 $\chi^2/\text{NDF}: 676.0/24$

Right Out: 8.089 ± 0.477 $\chi^2/\text{NDF}: 734.9/22$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.927 ± 0.206 $\chi^2/\text{NDF}: 1402.5/47$

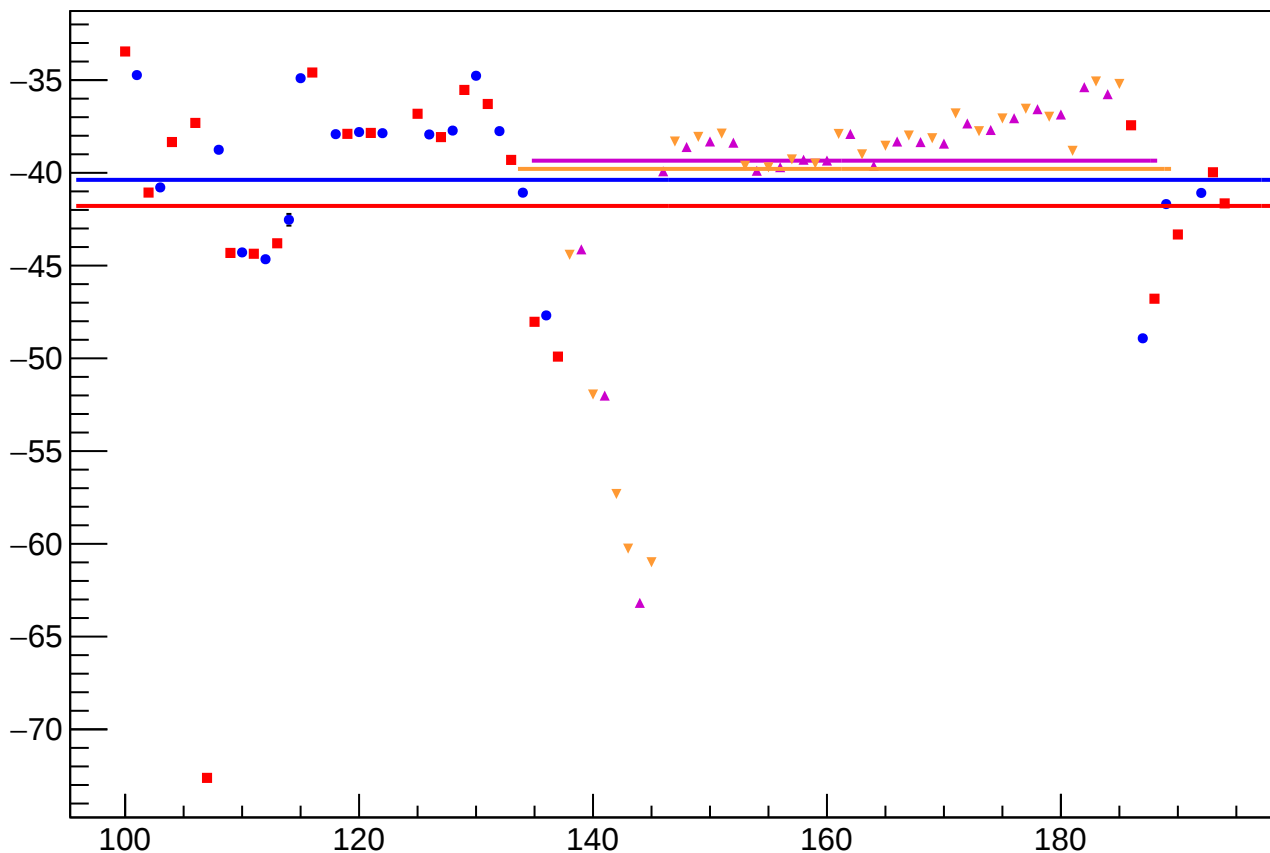
Right: 9.060 ± 0.338 $\chi^2/\text{NDF}: 1337.4/41$

In: 15.783 ± 0.250 $\chi^2/\text{NDF}: 1517.2/41$

Out: 15.296 ± 0.247 $\chi^2/\text{NDF}: 1722.5/47$

All: 15.537 ± 0.176 $\chi^2/\text{NDF}: 3241.7/89$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.378 ± 0.026 $\chi^2/\text{NDF}: 26901.1/18$

Left Out: -39.788 ± 0.014 $\chi^2/\text{NDF}: 165493.8/24$

Right Out: -41.784 ± 0.025 $\chi^2/\text{NDF}: 65920.1/22$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.565 ± 0.010 $\chi^2/\text{NDF}: 282639.2/47$

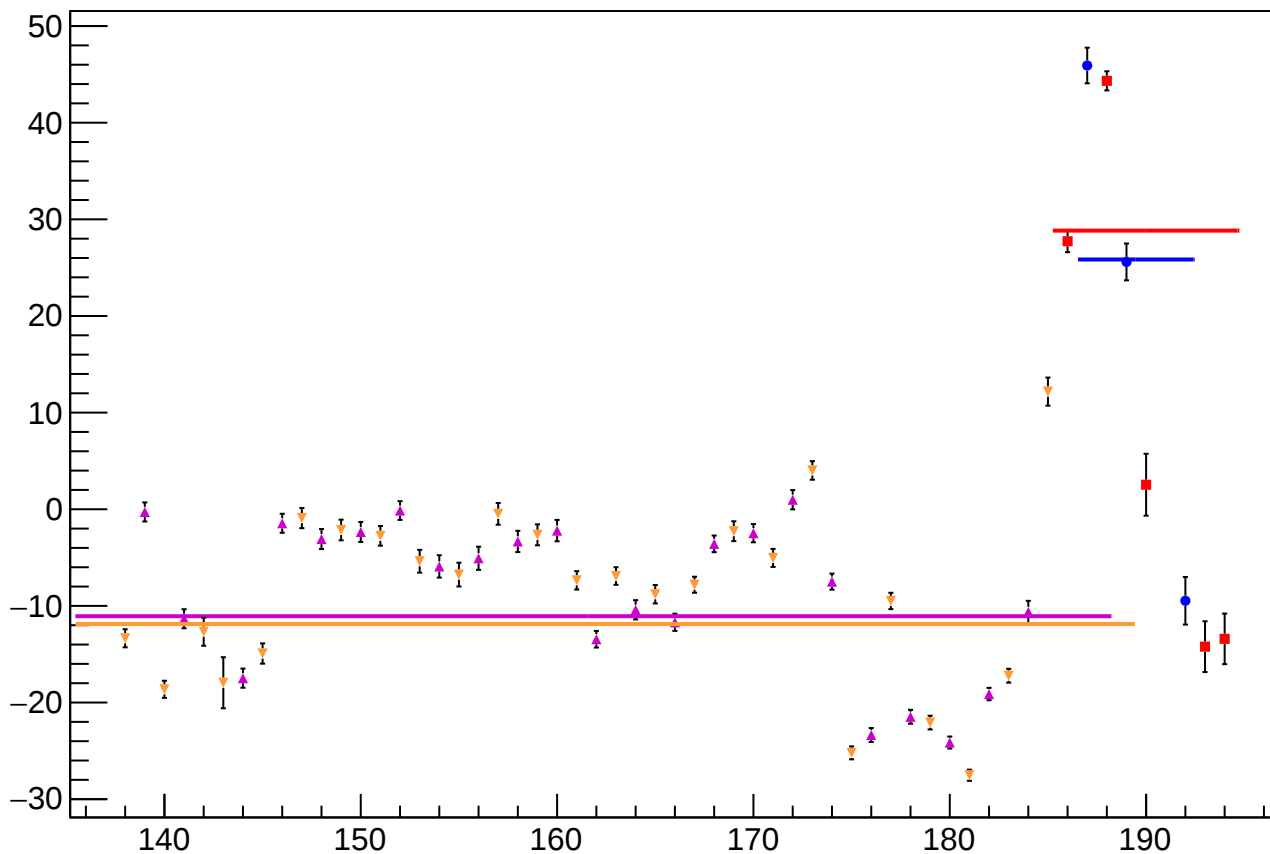
Right: -41.121 ± 0.018 $\chi^2/\text{NDF}: 94328.1/41$

In: -39.562 ± 0.012 $\chi^2/\text{NDF}: 144735.0/41$

Out: -40.251 ± 0.012 $\chi^2/\text{NDF}: 236367.3/47$

All: -39.909 ± 0.009 $\chi^2/\text{NDF}: 382743.6/89$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



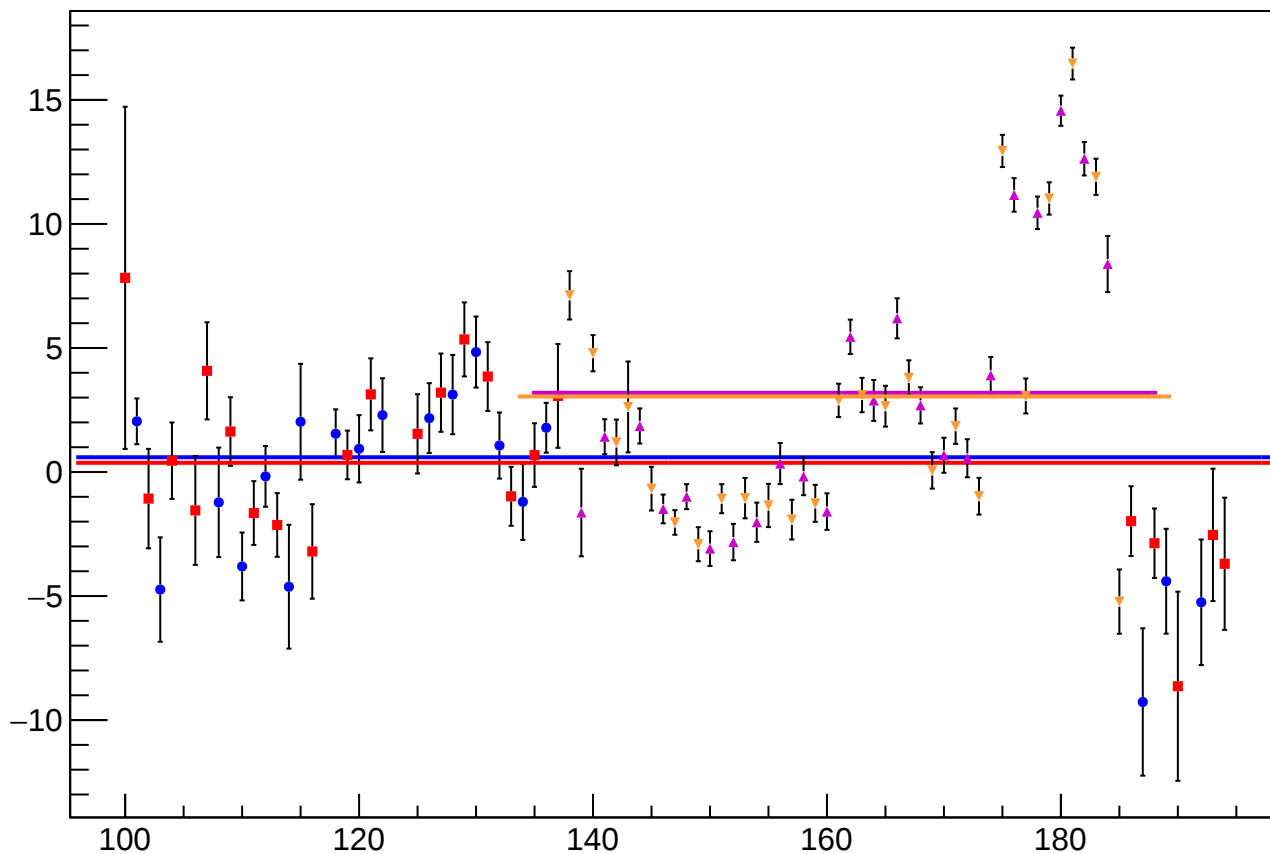
Right In: 25.847 $\pm$ 1.167 χ^2/NDF : 324.2/2
 Left Out: -11.873 $\pm$ 0.186 χ^2/NDF :2745.2/24
 Right Out: 28.834 $\pm$ 0.677 χ^2/NDF : 842.0/4
 Left In: -11.067 $\pm$ 0.188 χ^2/NDF :2104.8/22

Left: -11.473 $\pm$ 0.132 χ^2/NDF : 4859.2/47
 Right: 28.082 $\pm$ 0.585 χ^2/NDF : 1171.1/7

In: -10.134 $\pm$ 0.186 χ^2/NDF :3404.0/25
 Out: -9.002 $\pm$ 0.180 χ^2/NDF :6952.2/29

All: -9.549 $\pm$ 0.129 χ^2/NDF : 10375.4/55

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.595 ± 0.333 χ^2/NDF : 64.7/18

Left Out: 3.044 ± 0.147 χ^2/NDF : 1457.3/24

Right Out: 0.372 ± 0.327 χ^2/NDF : 61.8/22

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.118 ± 0.105 χ^2/NDF : 2752.7/47

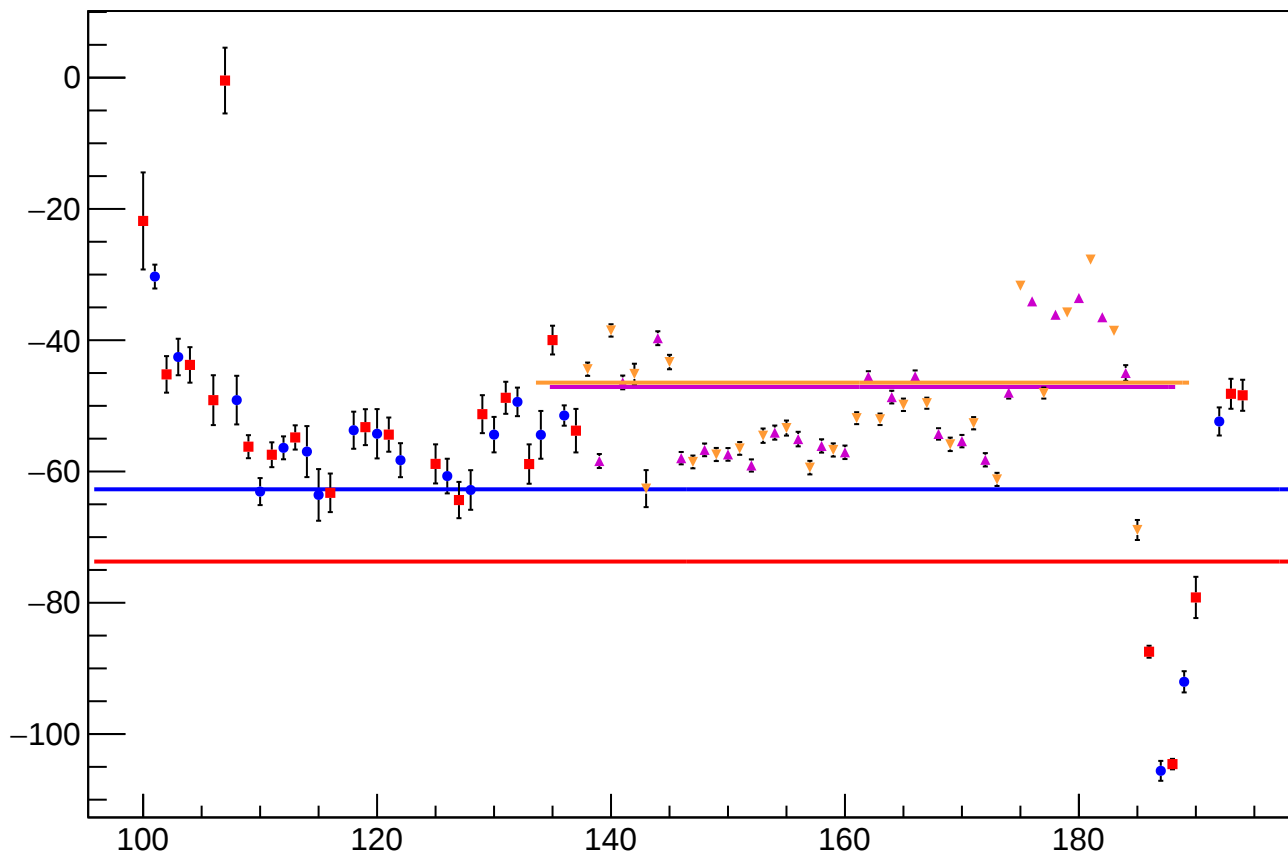
Right: 0.482 ± 0.233 χ^2/NDF : 126.8/41

In: 2.755 ± 0.137 χ^2/NDF : 1410.4/41

Out: 2.593 ± 0.134 χ^2/NDF : 1574.6/47

All: 2.673 ± 0.096 χ^2/NDF : 2985.7/89

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.715 $\pm$ 0.522 χ^2 /NDF: 1675.5/18

Left Out: -46.463 $\pm$ 0.186 χ^2 /NDF:3319.7/24

Right Out: -73.721 $\pm$ 0.413 χ^2 /NDF: 3399.8/22

Left In: -47.128 $\pm$ 0.187 χ^2 /NDF:2516.0/22

Left: -46.793 $\pm$ 0.132 χ^2 /NDF: 5842.0/47

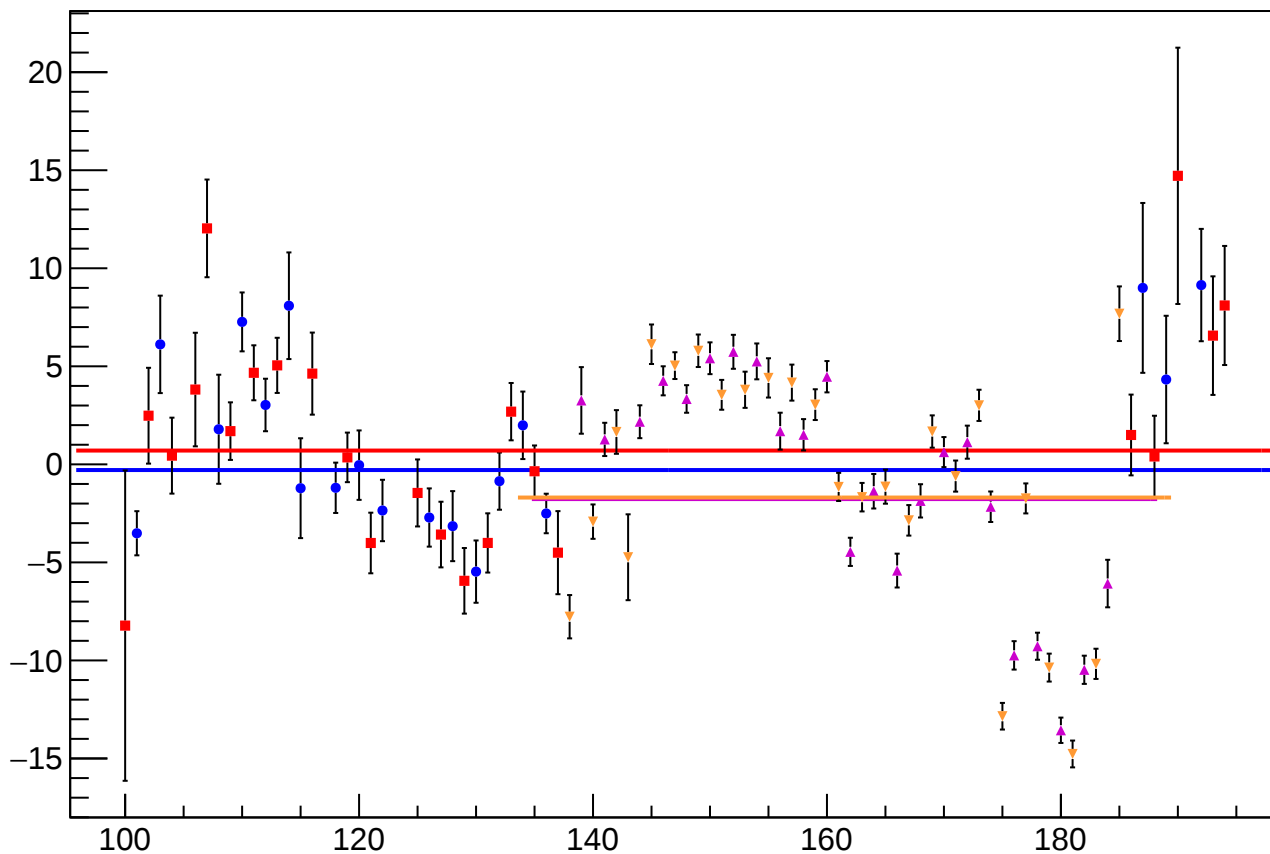
Right: -69.486 $\pm$ 0.324 χ^2 /NDF: 5349.1/41

In: -48.905 $\pm$ 0.176 χ^2 /NDF:4982.3/41

Out: -51.074 $\pm$ 0.170 χ^2 /NDF:10346.3/47

All: -50.031 $\pm$ 0.122 χ^2 /NDF: 15407.2/89

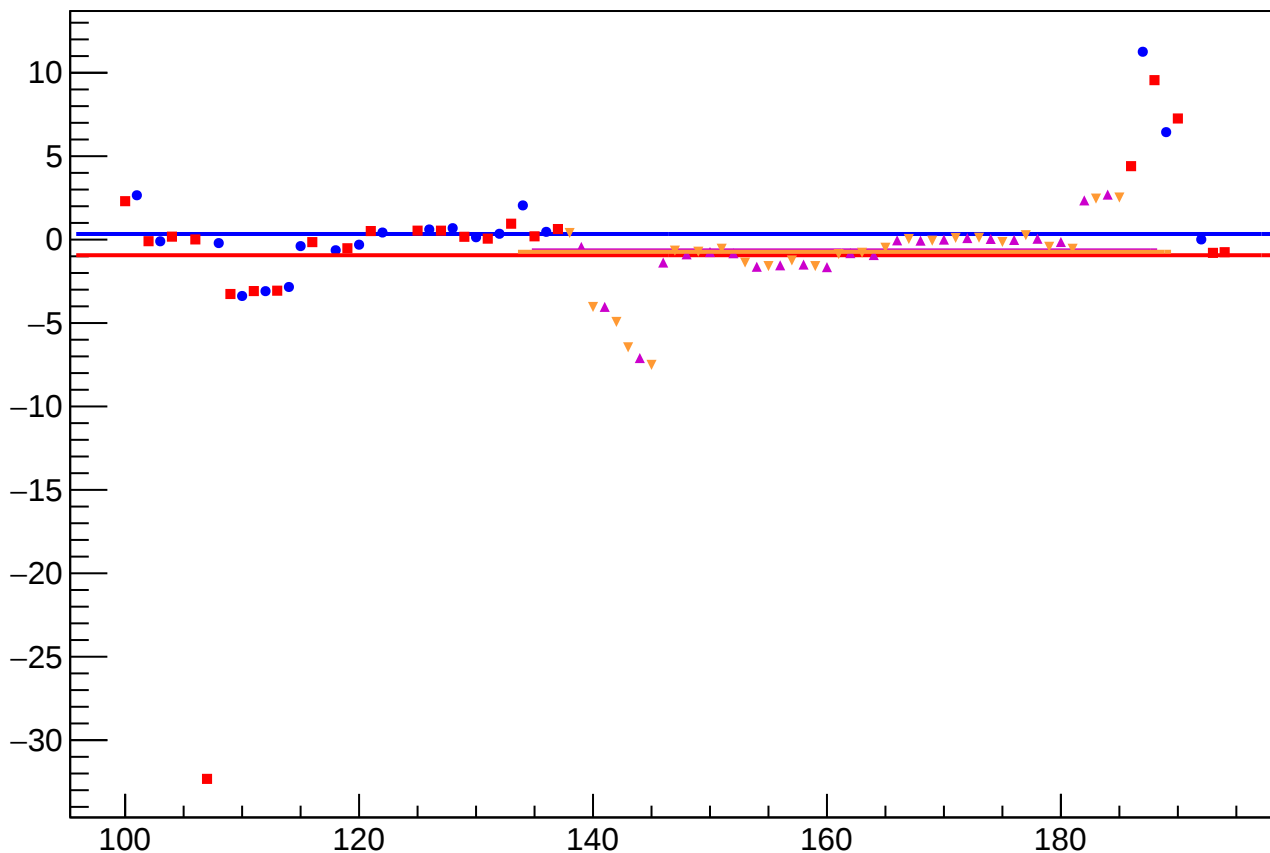
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.290 ± 0.380 χ^2/NDF : 98.8/18
 Left Out: -1.693 ± 0.167 χ^2/NDF : 1485.7/24
 Right Out: 0.704 ± 0.379 χ^2/NDF : 111.2/22
 Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.731 ± 0.119 χ^2/NDF : 2737.1/47
 Right: 0.207 ± 0.268 χ^2/NDF : 213.4/41
 In: -1.527 ± 0.154 χ^2/NDF : 1362.7/41
 Out: -1.305 ± 0.152 χ^2/NDF : 1630.4/47
 All: -1.415 ± 0.108 χ^2/NDF : 2994.2/89

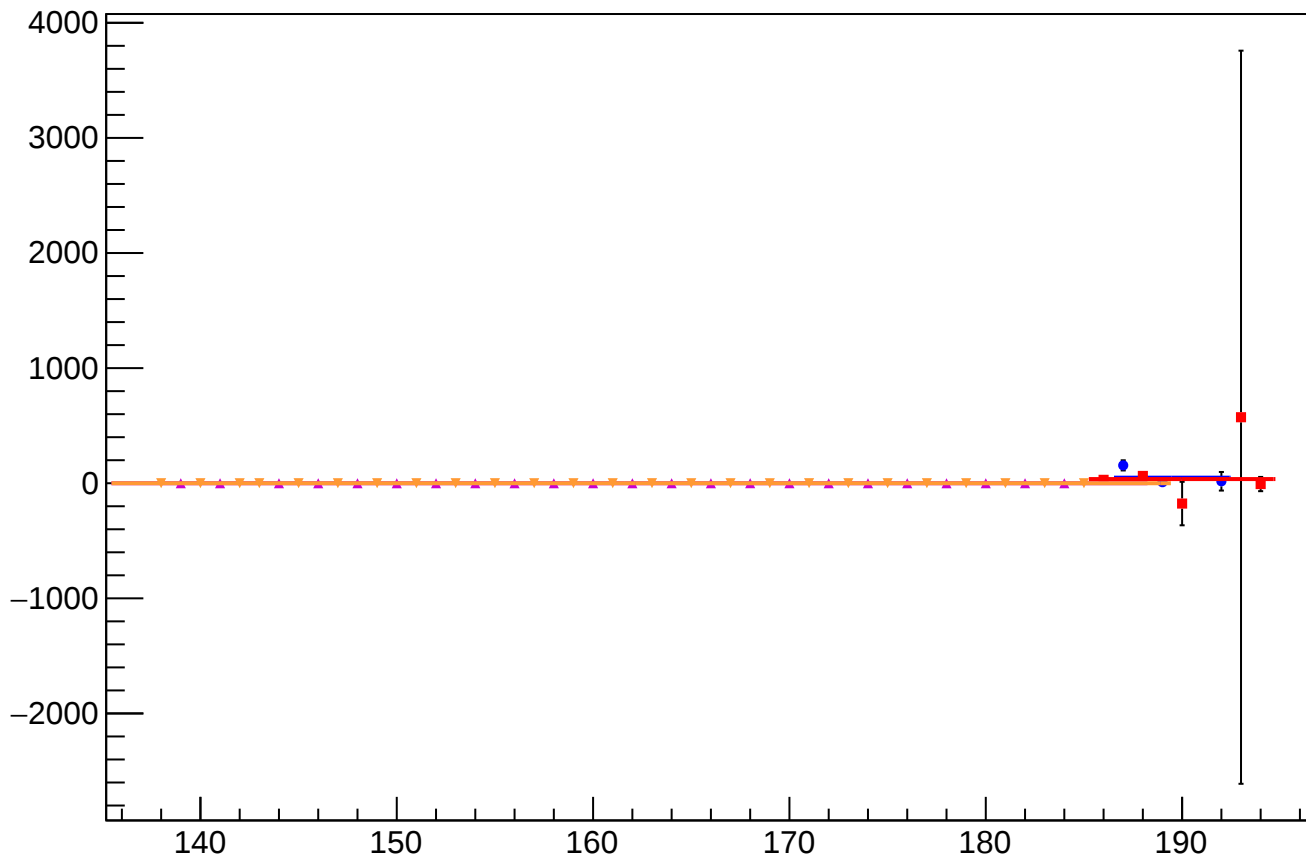
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.337 ± 0.021 $\chi^2/\text{NDF}: 9105.1/18$
 Left Out: -0.728 ± 0.008 $\chi^2/\text{NDF}: 56403.8/24$
 Right Out: -0.936 ± 0.020 $\chi^2/\text{NDF}: 92236.5/22$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.686 ± 0.005 $\chi^2/\text{NDF}: 100633.3/47$
 Right: -0.321 ± 0.014 $\chi^2/\text{NDF}: 103297.4/41$
 In: -0.526 ± 0.007 $\chi^2/\text{NDF}: 55248.5/41$
 Out: -0.754 ± 0.007 $\chi^2/\text{NDF}: 148734.8/47$
 All: -0.641 ± 0.005 $\chi^2/\text{NDF}: 204493.9/89$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 48.273+/-22.731 χ^2/NDF : 8.0/2

Left Out: -0.036+/-0.018 χ^2/NDF : 35.6/24

Right Out: 36.166+/-10.301 χ^2/NDF : 3.8/4

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.023+/-0.013 χ^2/NDF : 71.8/47

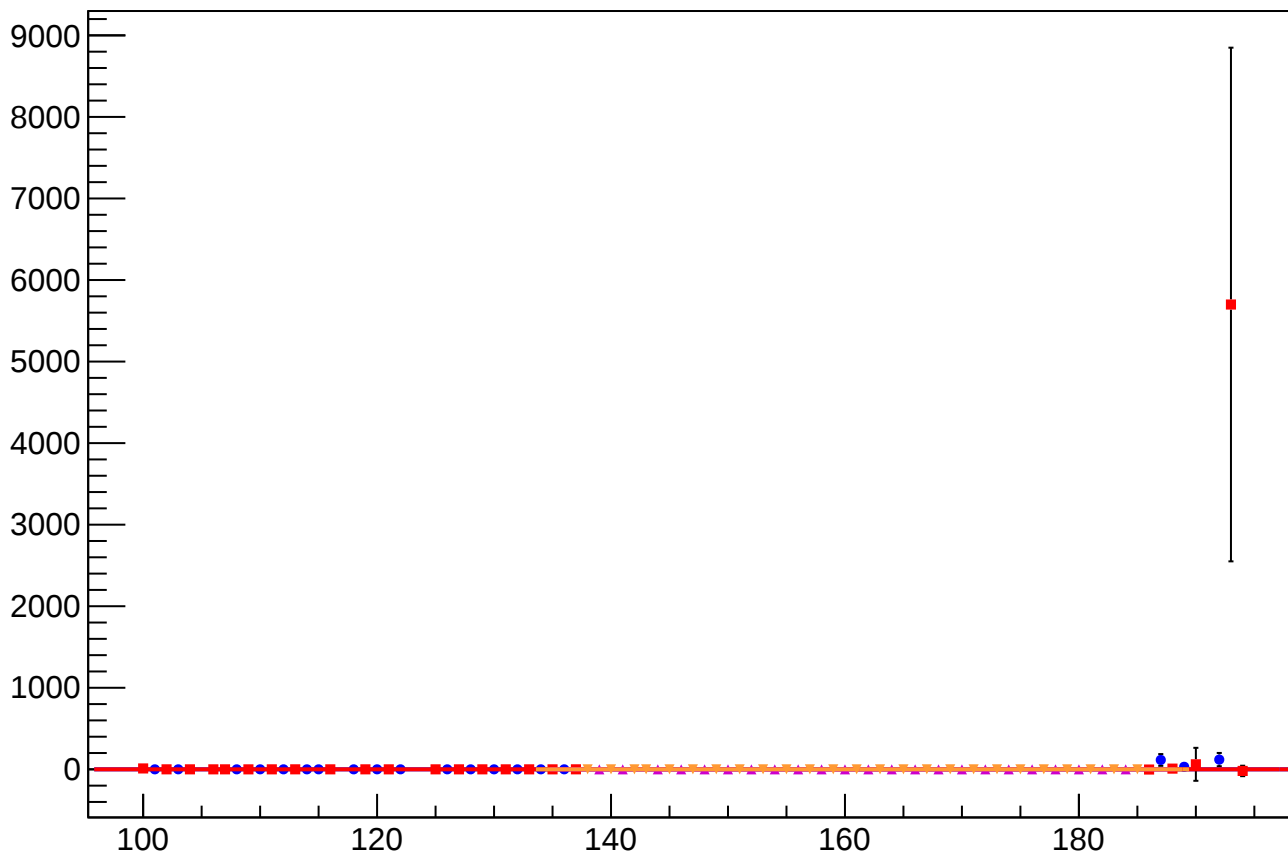
Right: 38.229+/-9.383 χ^2/NDF : 12.0/7

In: -0.010+/-0.018 χ^2/NDF : 47.6/25

Out: -0.036+/-0.018 χ^2/NDF : 51.7/29

All: -0.023+/-0.013 χ^2/NDF : 100.4/55

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 17.7/18

Left Out: -0.071 ± 0.014 χ^2/NDF : 28.3/24

Right Out: -0.088 ± 0.025 χ^2/NDF : 16.5/22

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.067 ± 0.010 χ^2/NDF : 69.5/47

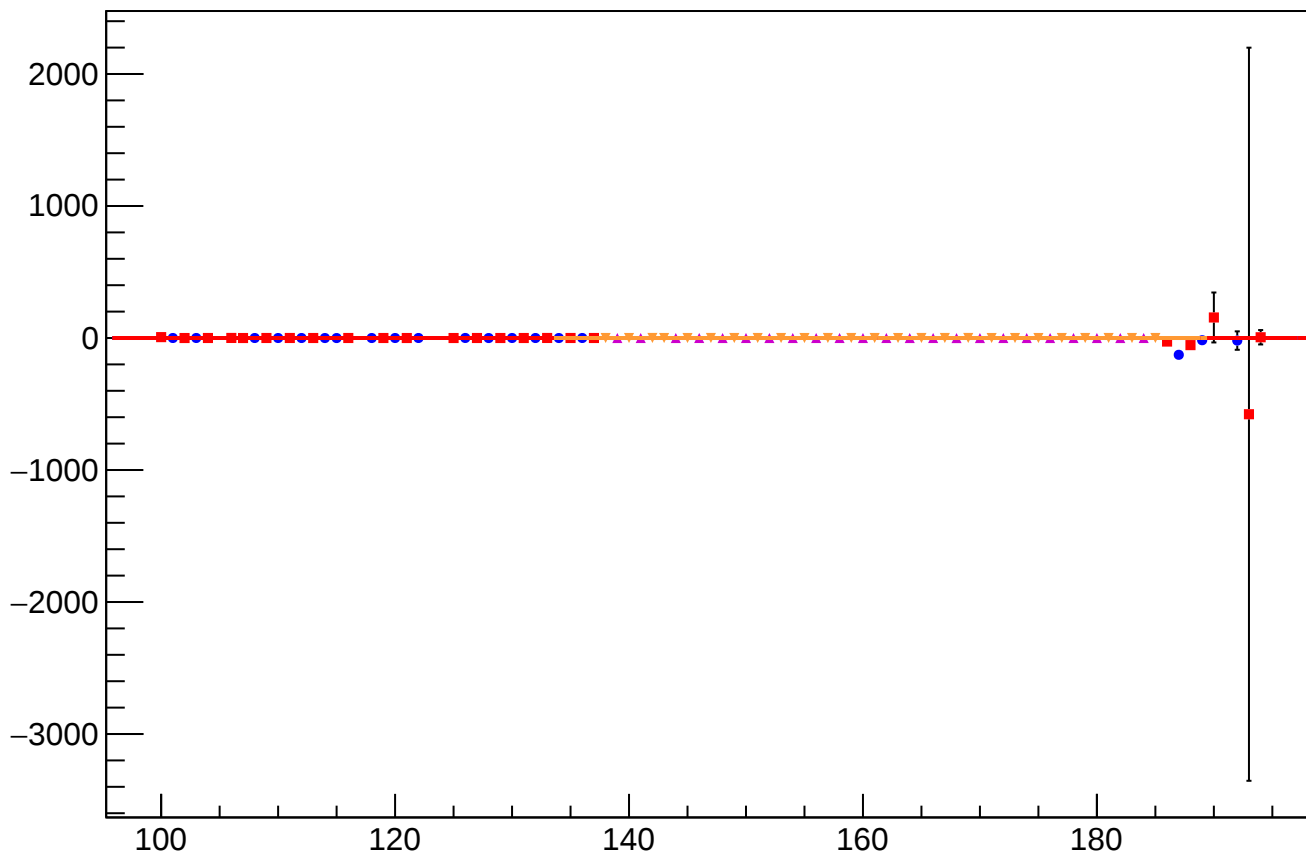
Right: -0.049 ± 0.017 χ^2/NDF : 38.9/41

In: -0.050 ± 0.012 χ^2/NDF : 62.1/41

Out: -0.075 ± 0.012 χ^2/NDF : 45.1/47

All: -0.063 ± 0.009 χ^2/NDF : 109.3/89

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 22.1/18

Left Out: 0.033 $\pm$ 0.018 χ^2 /NDF:32.6/24

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 27.7/22

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.2/47

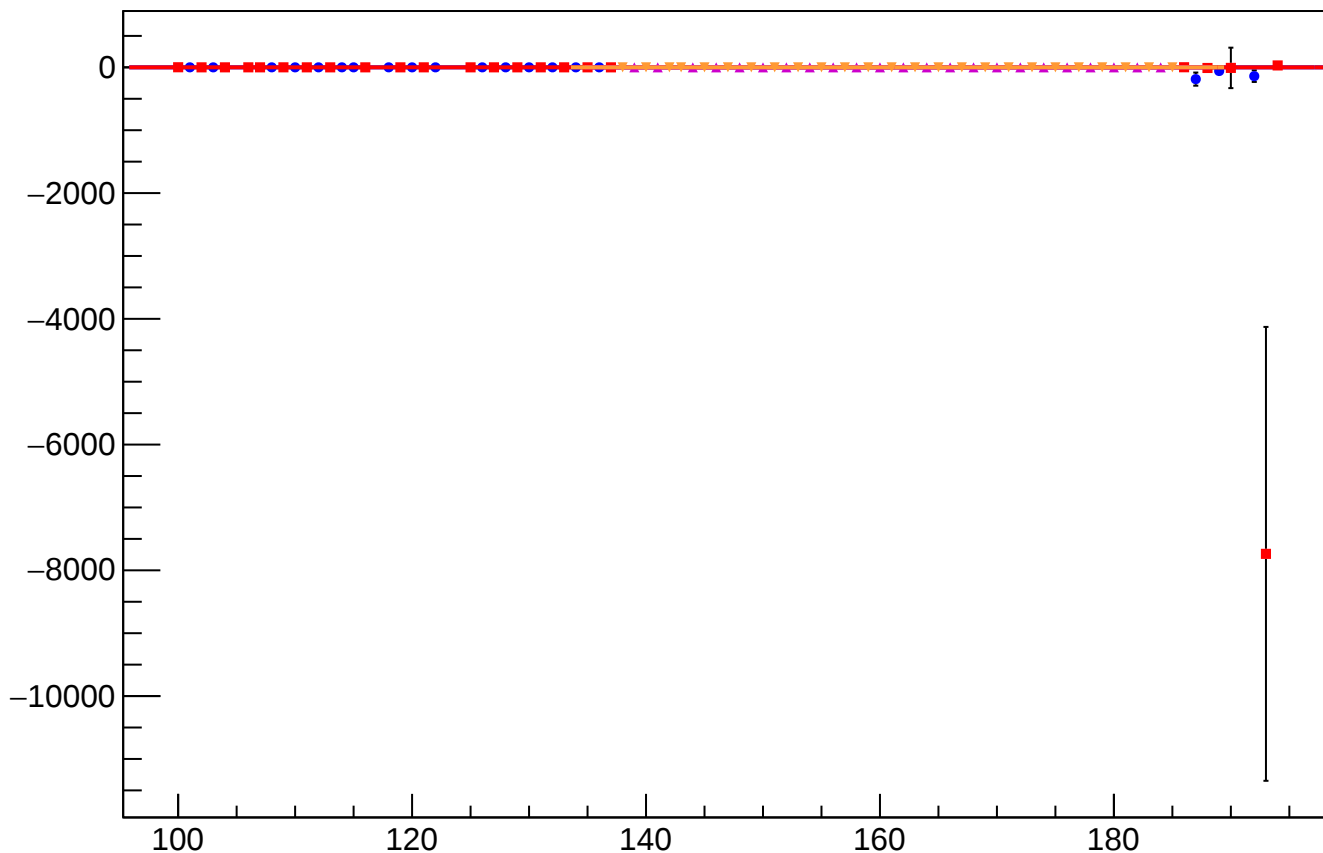
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 49.8/41

In: -0.005 $\pm$ 0.017 χ^2 /NDF:59.2/41

Out: 0.033 $\pm$ 0.016 χ^2 /NDF:60.3/47

All: 0.014 $\pm$ 0.012 χ^2 /NDF: 122.1/89

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 18.5/18

Left Out: 0.084 $\pm$ 0.016 χ^2 /NDF:28.1/24

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 12.9/22

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.077 $\pm$ 0.011 χ^2 /NDF: 73.3/47

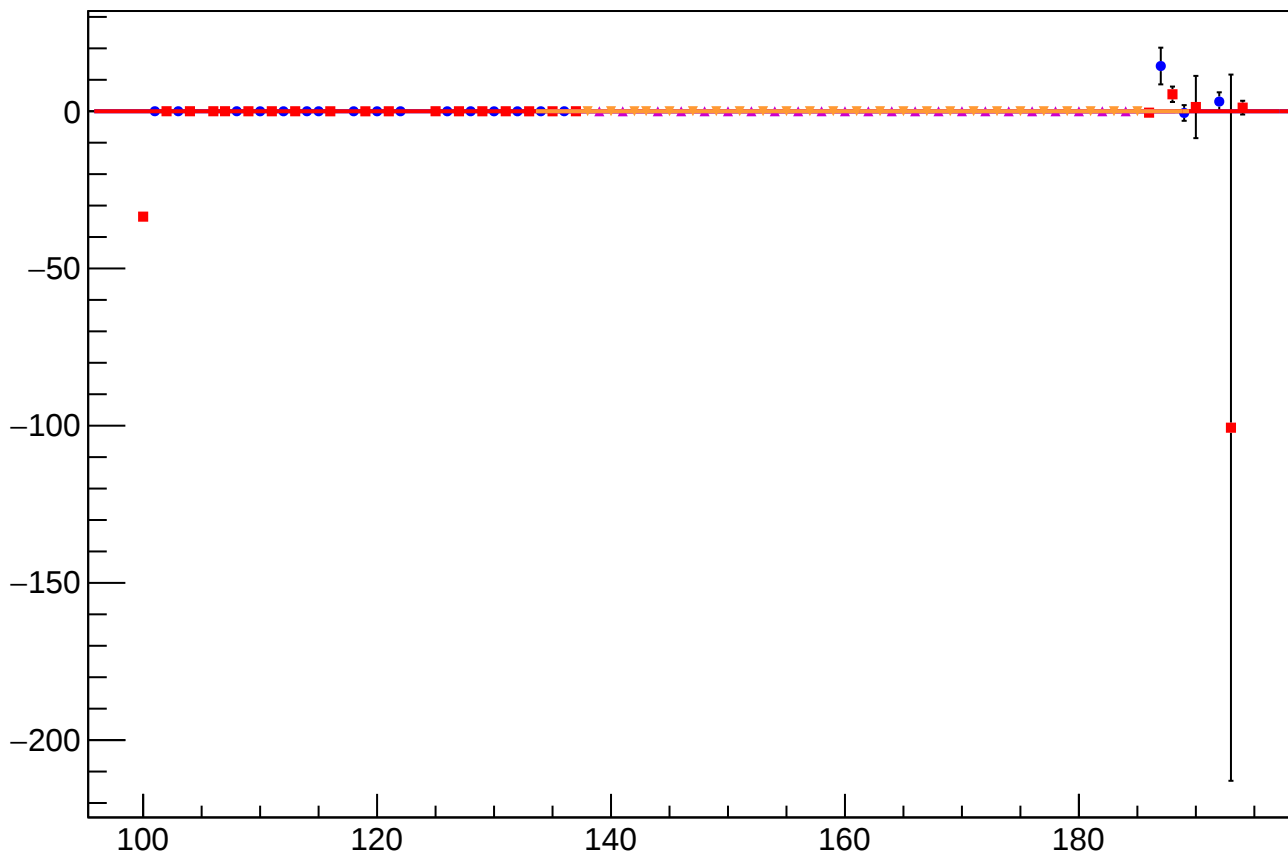
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 37.5/41

In: 0.053 $\pm$ 0.014 χ^2 /NDF:67.1/41

Out: 0.089 $\pm$ 0.014 χ^2 /NDF:41.4/47

All: 0.071 $\pm$ 0.010 χ^2 /NDF: 111.8/89

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 28.7/18

Left Out: 0.001 ± 0.001 χ^2/NDF : 26.1/24

Right Out: -0.006 ± 0.001 χ^2/NDF : 26515.0/22

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 48.6/47

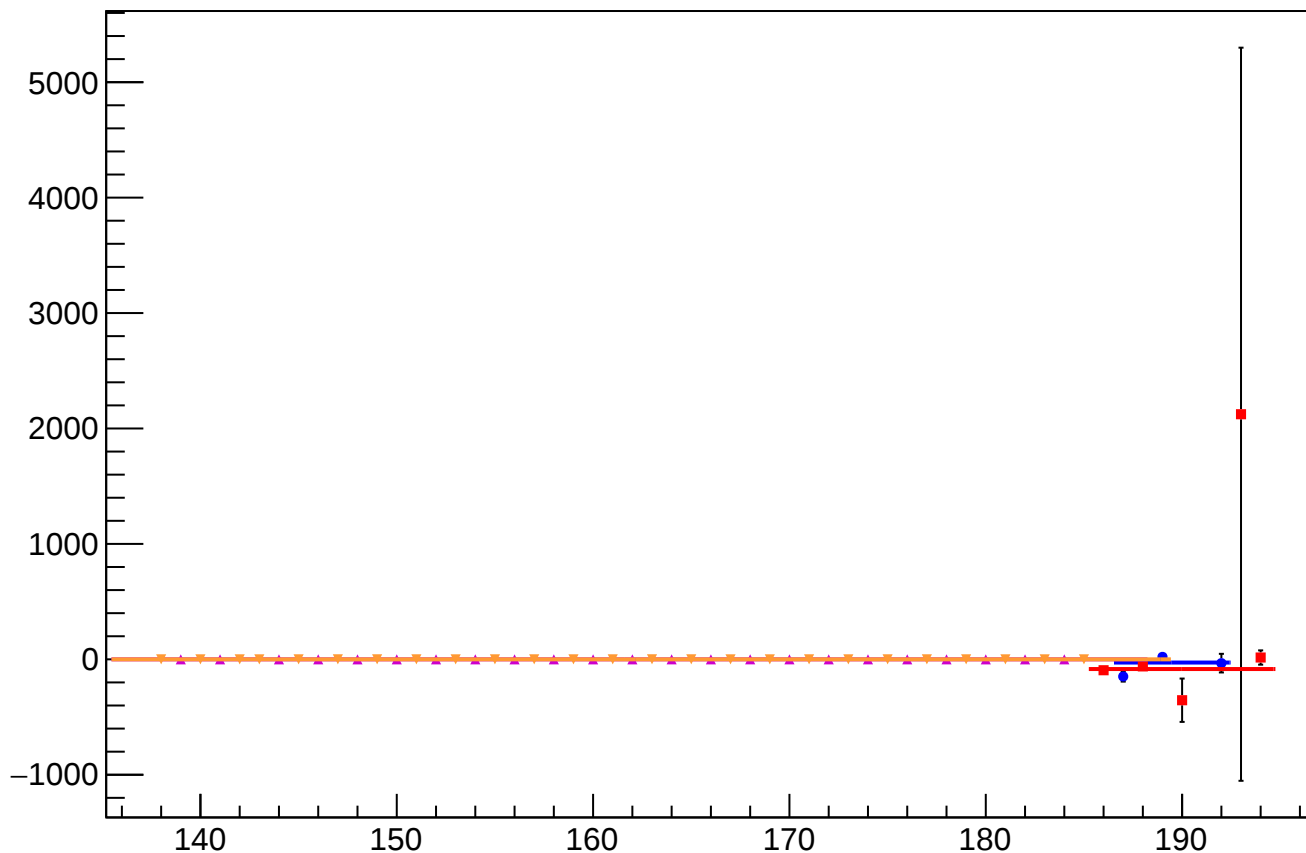
Right: -0.006 ± 0.001 χ^2/NDF : 26543.8/41

In: -0.001 ± 0.001 χ^2/NDF : 62.8/41

Out: -0.001 ± 0.001 χ^2/NDF : 26557.3/47

All: -0.001 ± 0.000 χ^2/NDF : 26620.1/89

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.825 ± 22.712 $\chi^2/\text{NDF}: 10.5/2$

Left Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 41.7/24$

Right Out: -84.064 ± 10.304 $\chi^2/\text{NDF}: 7.1/4$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.034 ± 0.013 $\chi^2/\text{NDF}: 80.7/47$

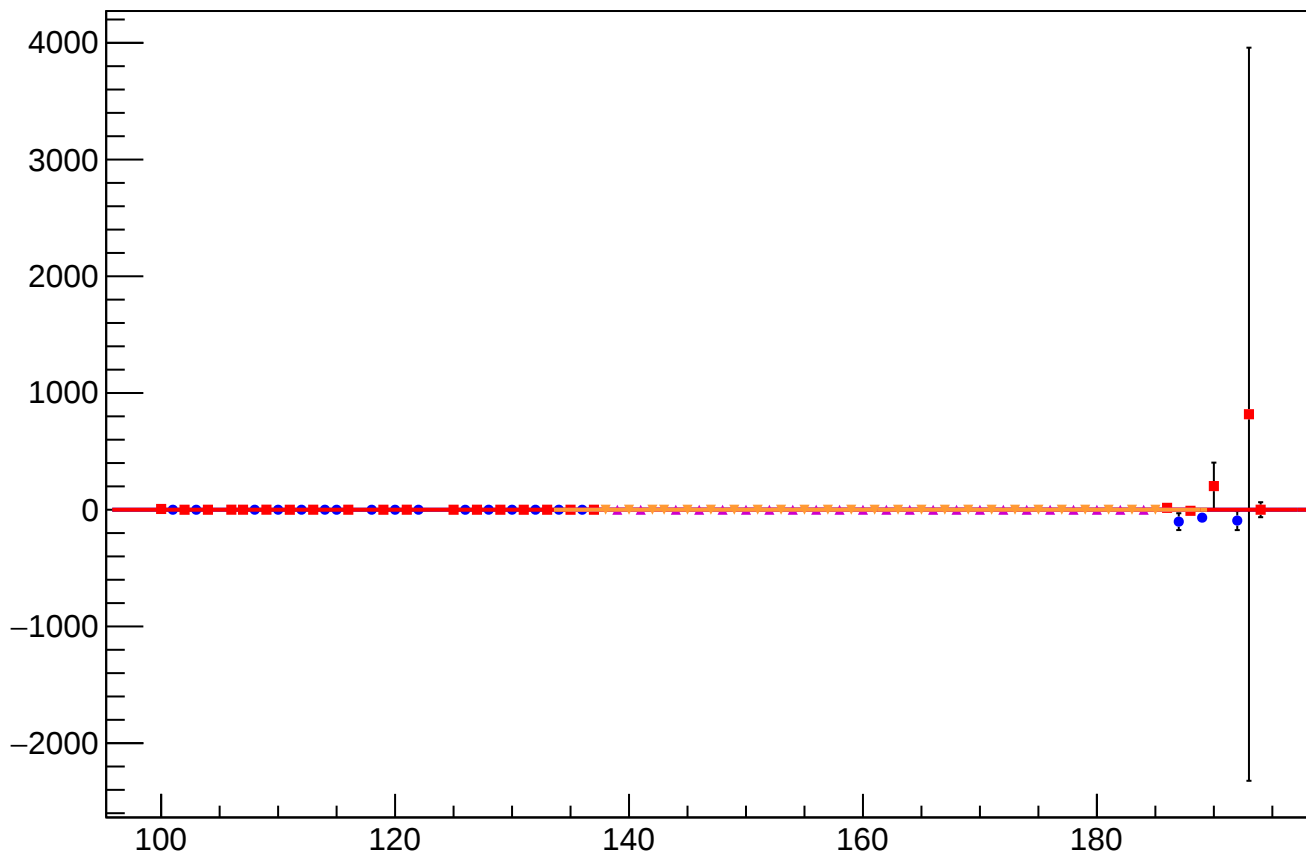
Right: -74.464 ± 9.383 $\chi^2/\text{NDF}: 22.7/7$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 47.1/25$

Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 115.3/29$

All: -0.035 ± 0.013 $\chi^2/\text{NDF}: 166.4/55$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.023 χ^2 /NDF: 33.0/18

Left Out: -0.010 $\pm$ 0.014 χ^2 /NDF: 29.7/24

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 31.0/22

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF: 49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.8/47

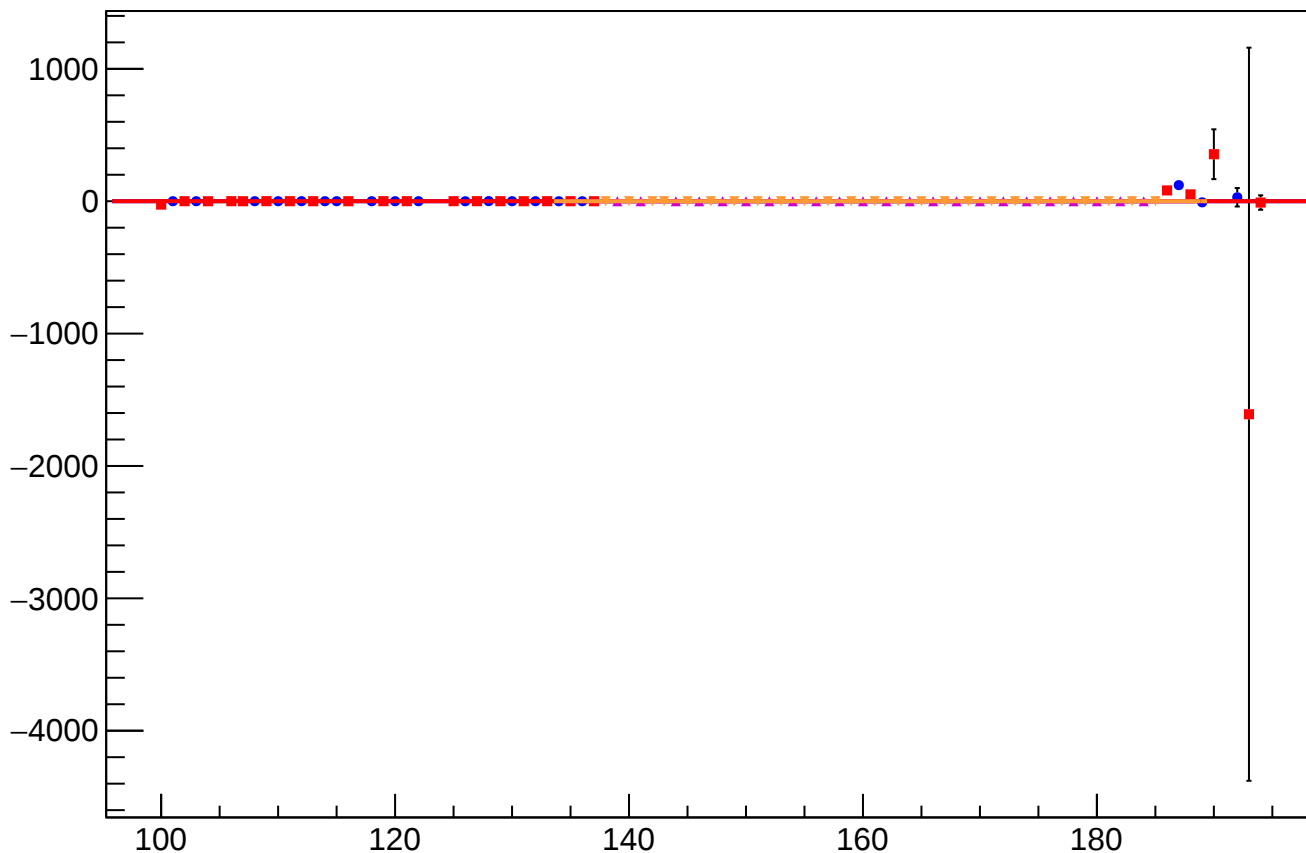
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 64.7/41

In: 0.006 $\pm$ 0.012 χ^2 /NDF: 82.6/41

Out: 0.001 $\pm$ 0.012 χ^2 /NDF: 63.4/47

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 146.0/89

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 41.3/18

Left Out: 0.055 $\pm$ 0.018 χ^2 /NDF:41.0/24

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 105.9/22

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.038 $\pm$ 0.013 χ^2 /NDF: 78.7/47

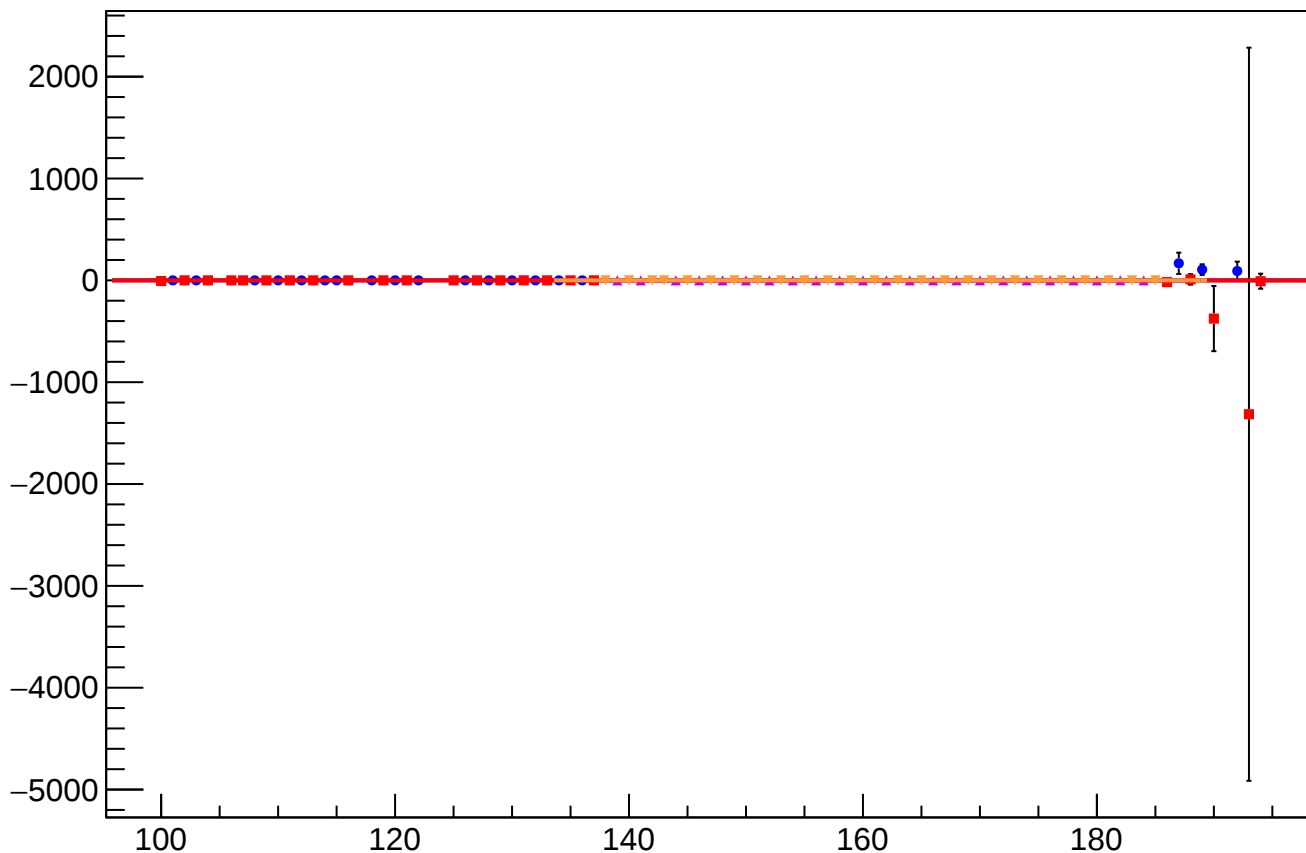
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 147.6/41

In: 0.040 $\pm$ 0.017 χ^2 /NDF:85.7/41

Out: 0.074 $\pm$ 0.016 χ^2 /NDF:155.4/47

All: 0.057 $\pm$ 0.012 χ^2 /NDF: 243.2/89

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 $\pm$ 0.027 χ^2 /NDF: 32.2/18

Left Out: 0.021 $\pm$ 0.016 χ^2 /NDF:33.4/24

Right Out: -0.046 $\pm$ 0.029 χ^2 /NDF: 28.4/22

Left In: 0.006 $\pm$ 0.016 χ^2 /NDF:50.1/22

Left: 0.014 $\pm$ 0.011 χ^2 /NDF: 84.0/47

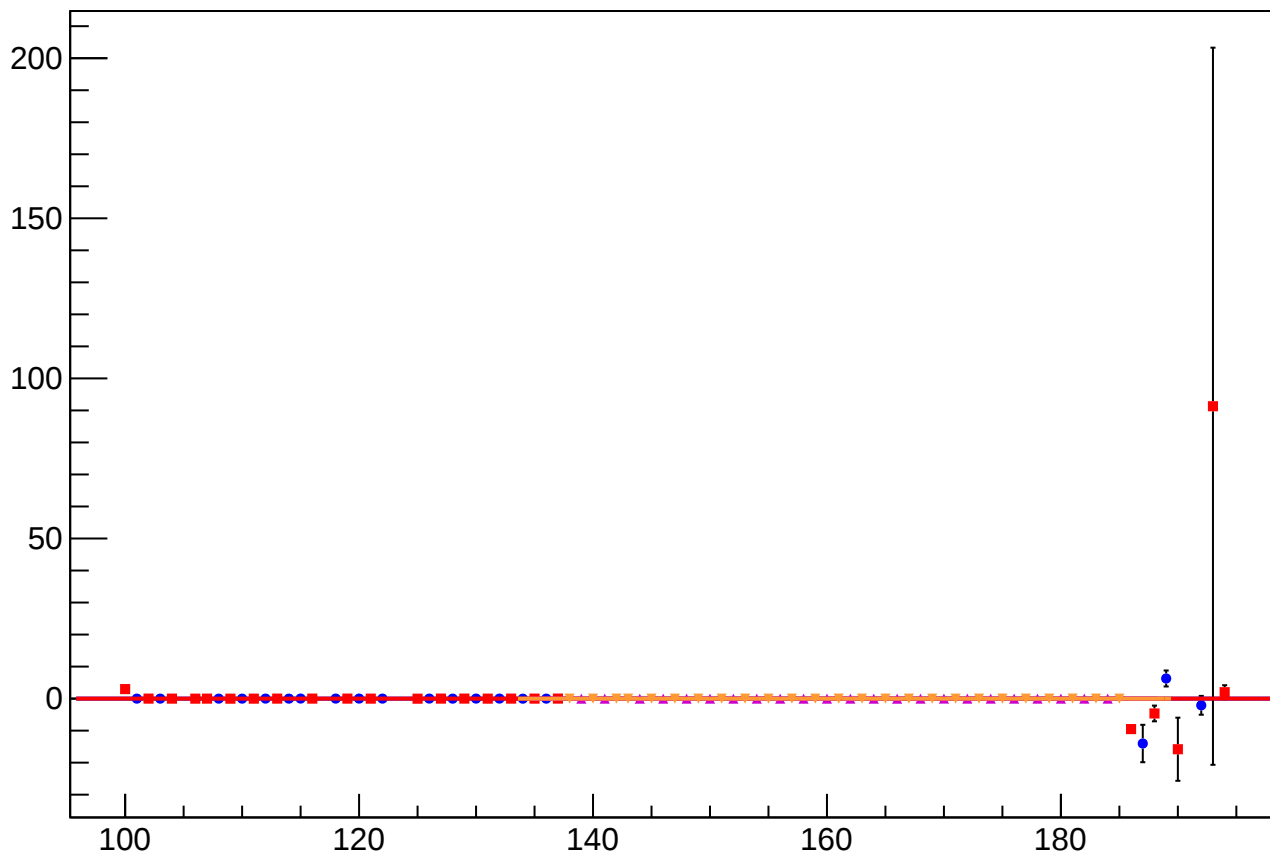
Right: -0.027 $\pm$ 0.020 χ^2 /NDF: 61.5/41

In: 0.002 $\pm$ 0.014 χ^2 /NDF:82.6/41

Out: 0.005 $\pm$ 0.014 χ^2 /NDF:66.1/47

All: 0.003 $\pm$ 0.010 χ^2 /NDF: 148.7/89

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 40.1/18

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.7/24

Right Out: -0.006 ± 0.001 χ^2/NDF : 210.5/22

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 70.3/47

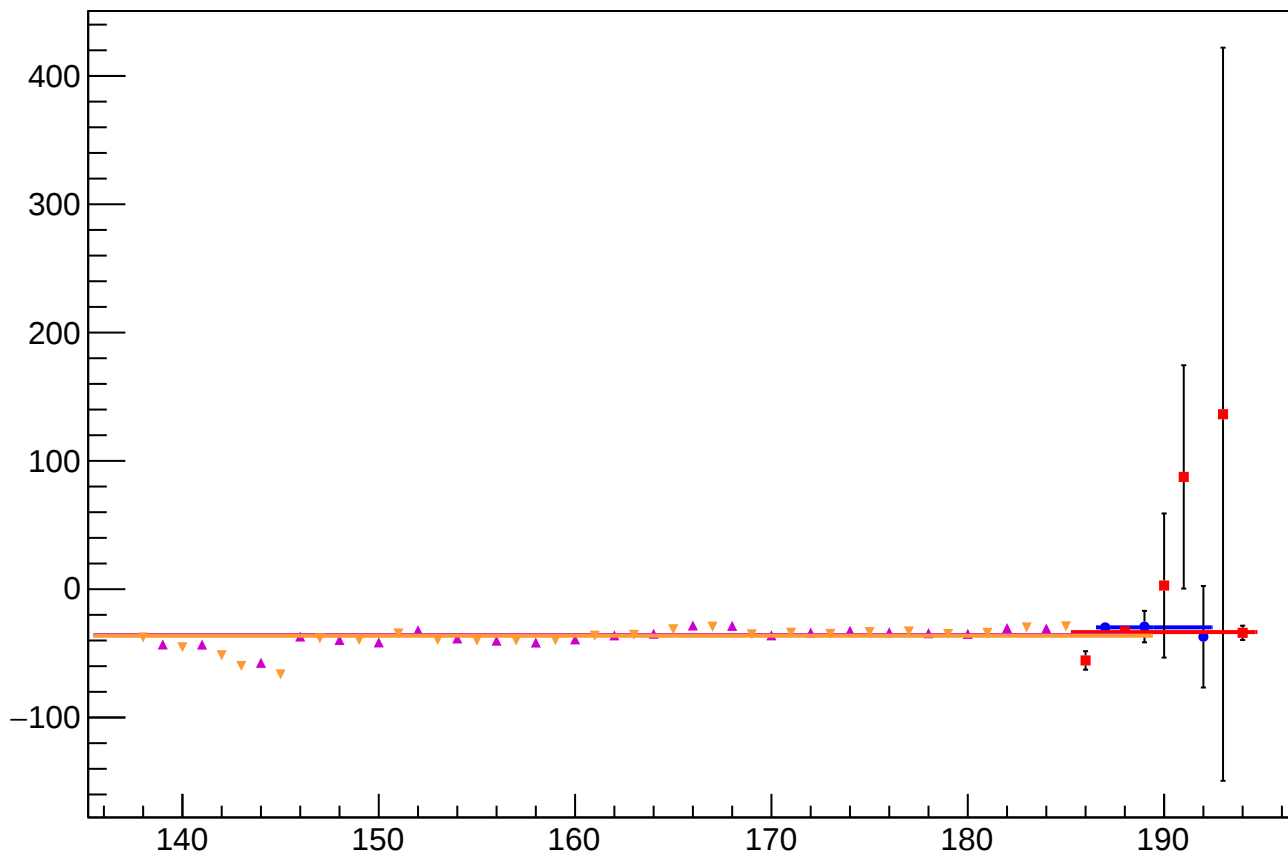
Right: -0.006 ± 0.001 χ^2/NDF : 250.6/41

In: -0.008 ± 0.001 χ^2/NDF : 79.8/41

Out: -0.008 ± 0.001 χ^2/NDF : 245.1/47

All: -0.008 ± 0.000 χ^2/NDF : 325.2/89

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.750 ± 1.851 χ^2/NDF : 0.0/2

Left Out: -36.243 ± 0.191 χ^2/NDF : 1193.9/24

Right Out: -33.435 ± 1.139 χ^2/NDF : 12.3/5

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -36.011 ± 0.135 χ^2/NDF : 2050.9/47

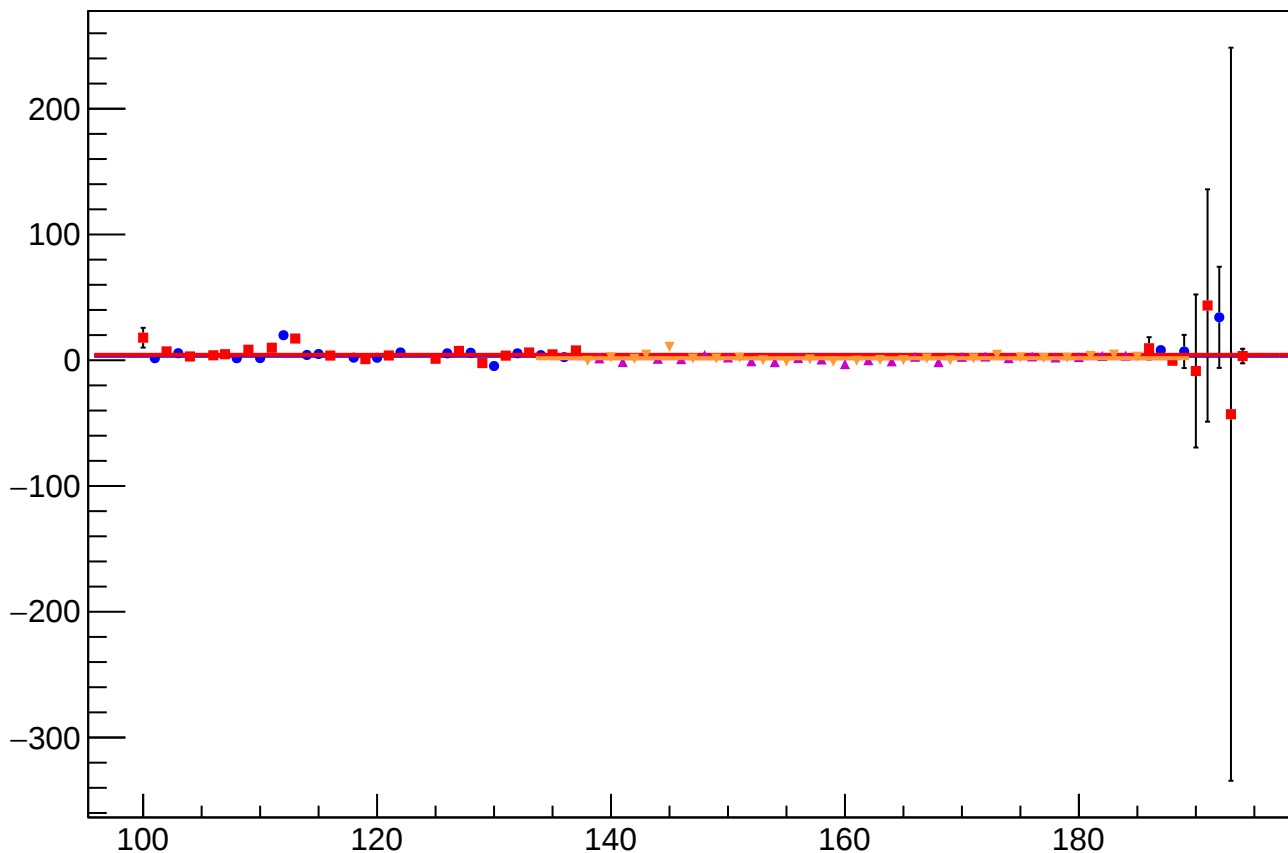
Right: -32.423 ± 0.970 χ^2/NDF : 15.2/8

In: -35.716 ± 0.190 χ^2/NDF : 864.6/25

Out: -36.166 ± 0.189 χ^2/NDF : 1212.1/30

All: -35.943 ± 0.134 χ^2/NDF : 2079.6/56

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.578 $\pm$ 0.220 χ^2 /NDF: 442.8/18

Left Out: 1.652 $\pm$ 0.147 χ^2 /NDF:168.8/24

Right Out: 4.309 $\pm$ 0.223 χ^2 /NDF: 360.1/23

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.647 $\pm$ 0.105 χ^2 /NDF: 332.0/47

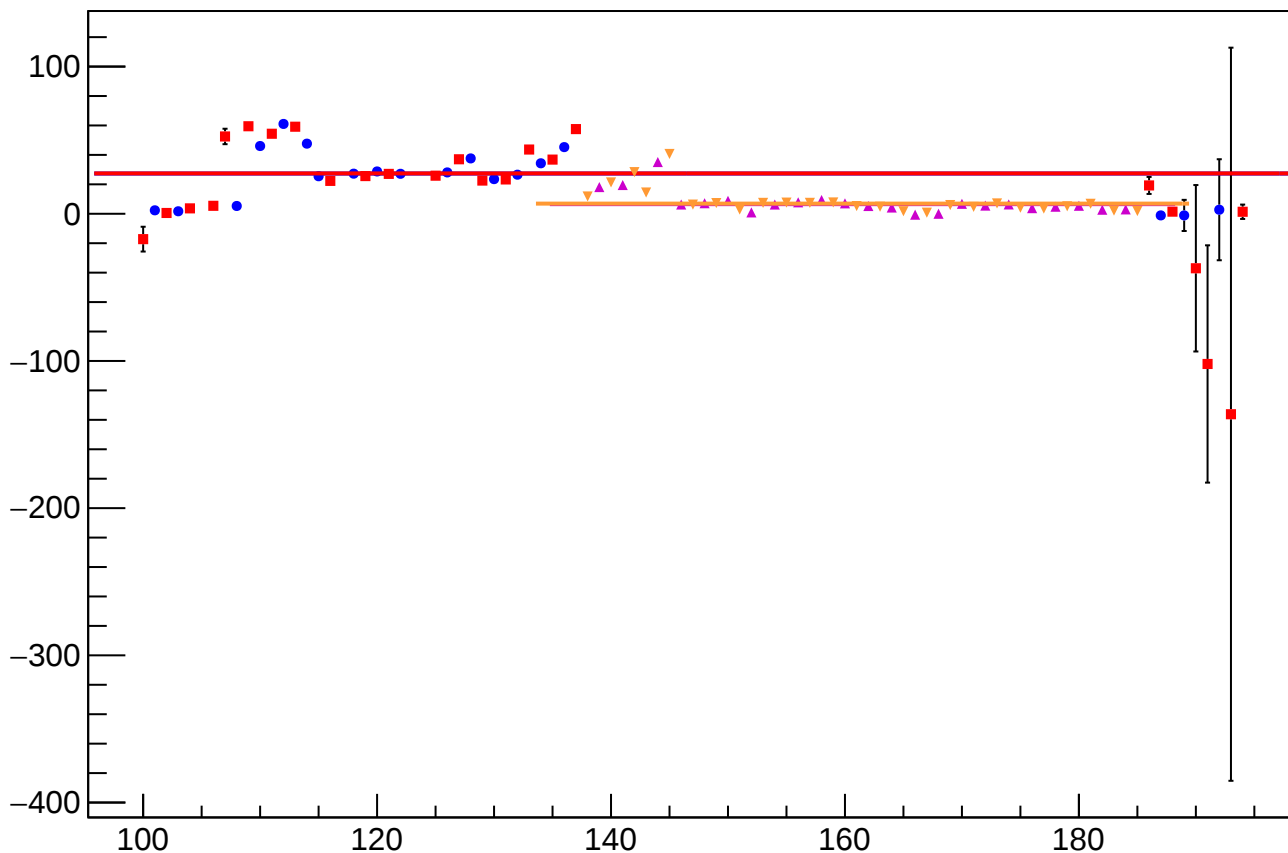
Right: 3.938 $\pm$ 0.157 χ^2 /NDF: 808.3/42

In: 2.253 $\pm$ 0.124 χ^2 /NDF:659.0/41

Out: 2.457 $\pm$ 0.123 χ^2 /NDF:627.5/48

All: 2.355 $\pm$ 0.087 χ^2 /NDF: 1287.8/90

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.328+/-0.405 χ^2/NDF : 1864.6/18

Left Out: 6.900+/-0.191 χ^2/NDF :1302.8/24

Right Out: 27.420+/-0.385 χ^2/NDF : 2597.9/23

Left In: 6.537+/-0.190 χ^2/NDF :1025.1/22

Left: 6.718+/-0.135 χ^2/NDF : 2329.7/47

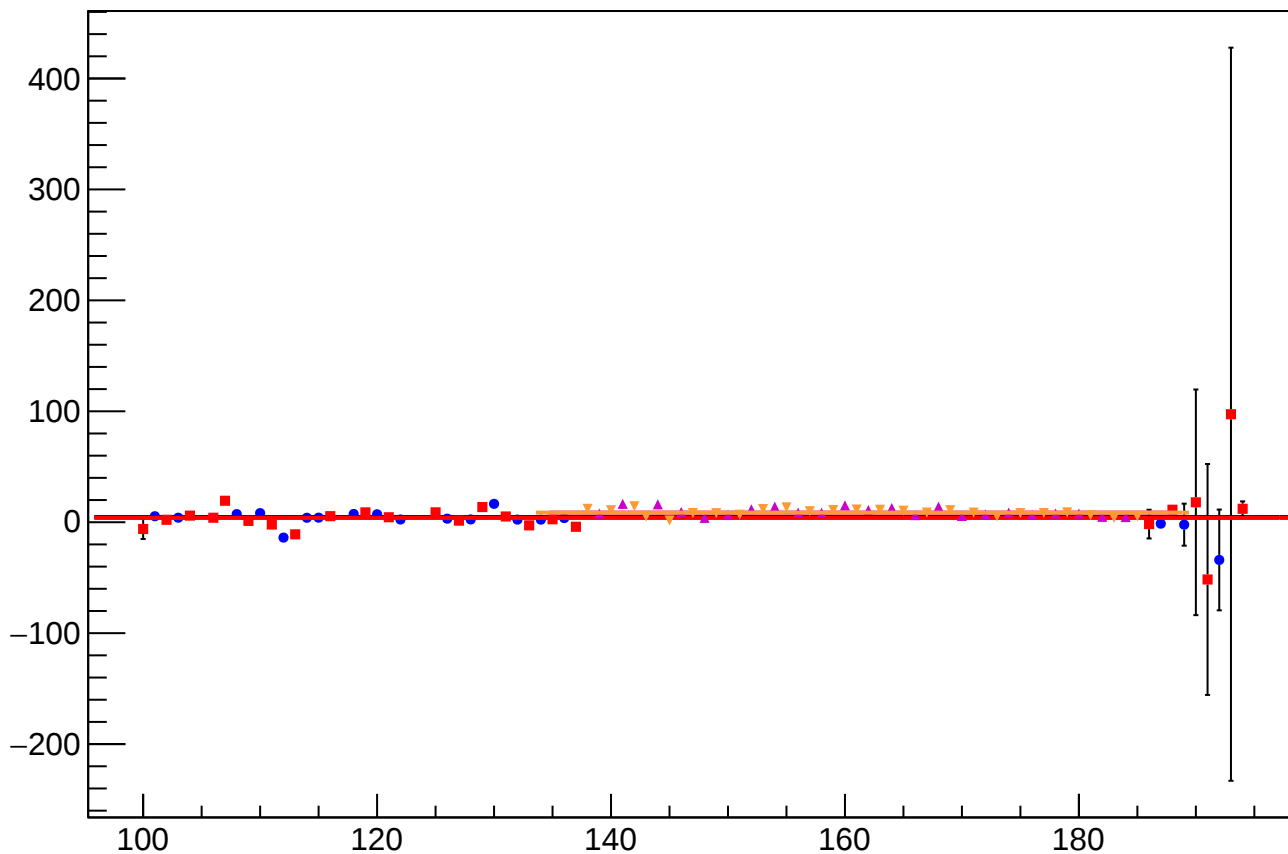
Right: 27.376+/-0.279 χ^2/NDF : 4462.6/42

In: 10.296+/-0.172 χ^2/NDF :5046.6/41

Out: 10.950+/-0.171 χ^2/NDF :6179.9/48

All: 10.626+/-0.121 χ^2/NDF : 11233.7/90

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.728 $\pm$ 0.254 χ^2 /NDF: 549.3/18

Left Out: 8.674 $\pm$ 0.168 χ^2 /NDF:243.7/24

Right Out: 3.862 $\pm$ 0.258 χ^2 /NDF: 574.0/23

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.671 $\pm$ 0.120 χ^2 /NDF: 680.4/47

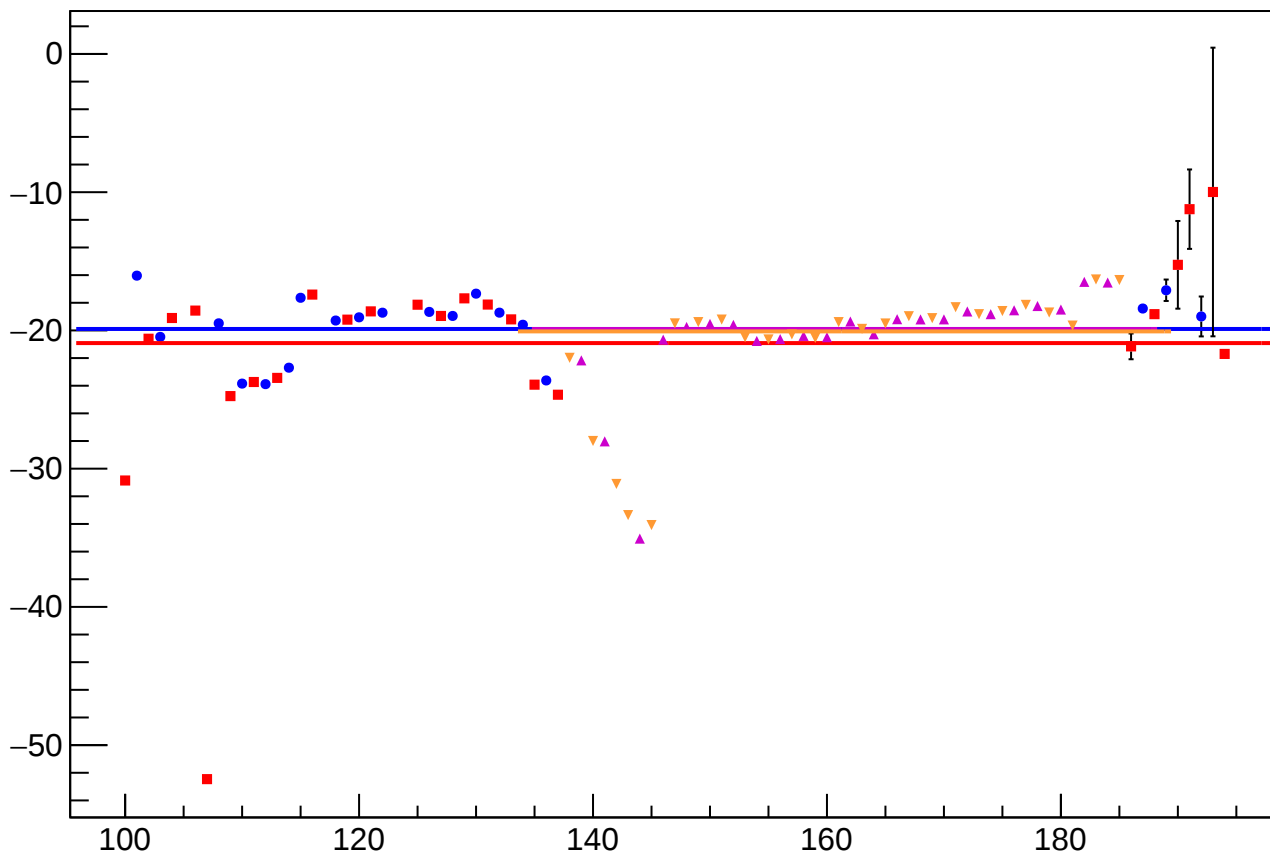
Right: 4.301 $\pm$ 0.181 χ^2 /NDF: 1128.9/42

In: 7.448 $\pm$ 0.141 χ^2 /NDF:1152.1/41

Out: 7.232 $\pm$ 0.141 χ^2 /NDF:1061.9/48

All: 7.340 $\pm$ 0.100 χ^2 /NDF: 2215.1/90

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.894 ± 0.016 χ^2/NDF : 26068.6/18

Left Out: -20.069 ± 0.008 χ^2/NDF : 185373.7/24

Right Out: -20.915 ± 0.016 χ^2/NDF : 94233.6/23

Left In: -19.898 ± 0.008 χ^2/NDF : 144191.9/22

Left: -19.983 ± 0.006 χ^2/NDF : 329802.7/47

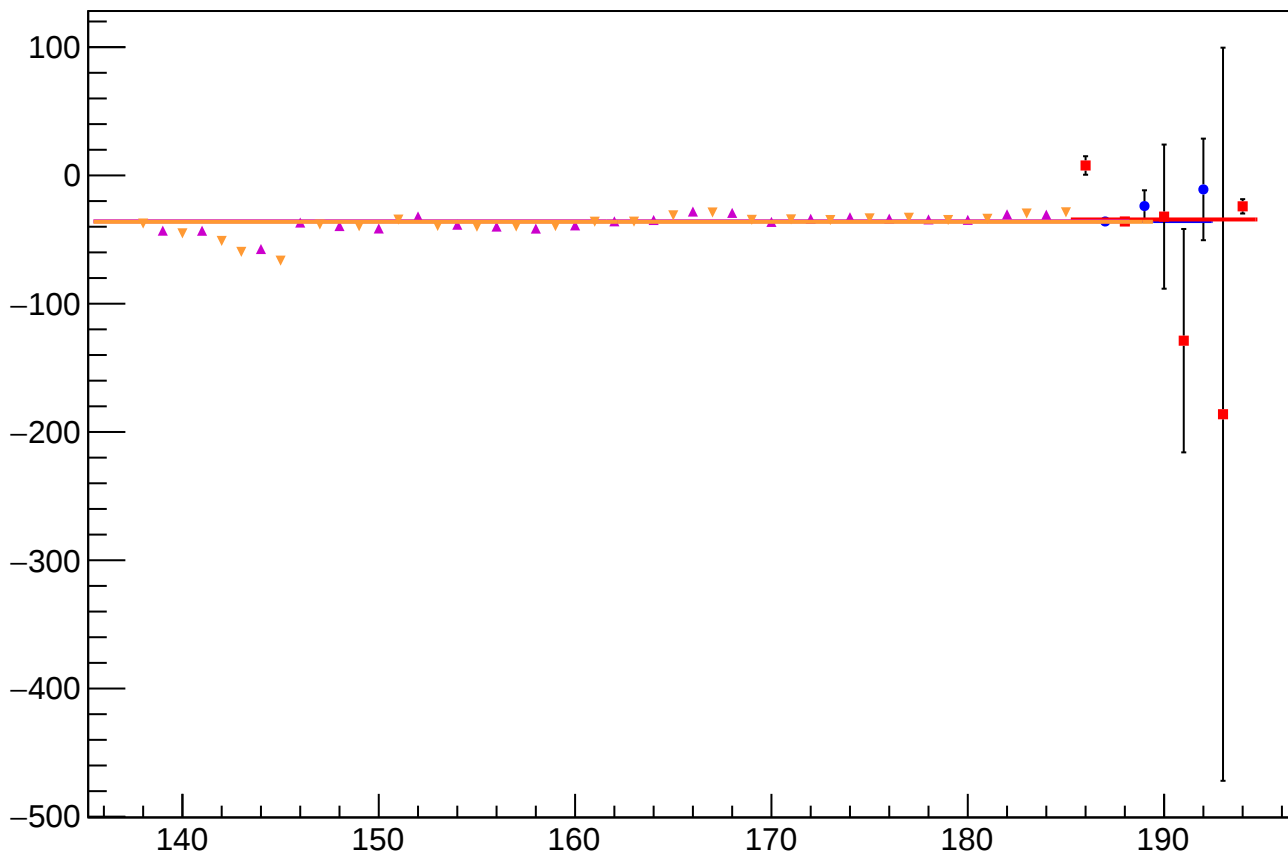
Right: -20.406 ± 0.011 χ^2/NDF : 122439.1/42

In: -19.897 ± 0.007 χ^2/NDF : 170260.6/41

Out: -20.241 ± 0.007 χ^2/NDF : 281952.5/48

All: -20.069 ± 0.005 χ^2/NDF : 453411.8/90

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.575 $\pm$ 1.858 χ^2 /NDF: 1.3/2

Left Out: -36.152 $\pm$ 0.191 χ^2 /NDF:1199.2/24

Right Out: -34.335 $\pm$ 1.142 χ^2 /NDF: 40.6/5

Left In: -35.766 $\pm$ 0.191 χ^2 /NDF:842.6/22

Left: -35.959 $\pm$ 0.135 χ^2 /NDF: 2043.8/47

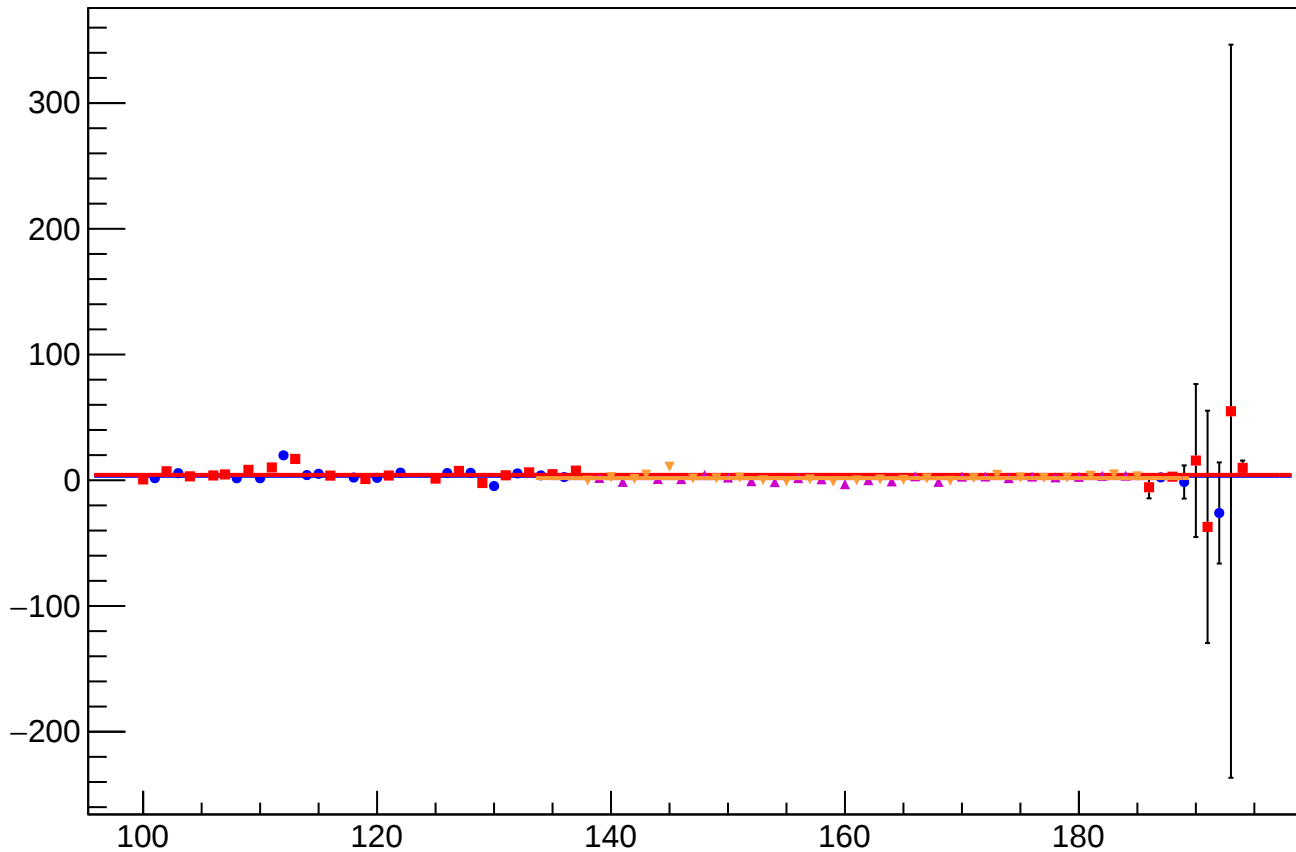
Right: -34.676 $\pm$ 0.973 χ^2 /NDF: 42.3/8

In: -35.764 $\pm$ 0.190 χ^2 /NDF:843.9/25

Out: -36.103 $\pm$ 0.189 χ^2 /NDF:1242.3/30

All: -35.935 $\pm$ 0.134 χ^2 /NDF: 2087.8/56

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.550 $\pm$ 0.220 χ^2 /NDF: 438.0/18

Left Out: 1.741 $\pm$ 0.147 χ^2 /NDF:170.2/24

Right Out: 4.289 $\pm$ 0.220 χ^2 /NDF: 355.1/23

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.723 $\pm$ 0.105 χ^2 /NDF: 333.2/47

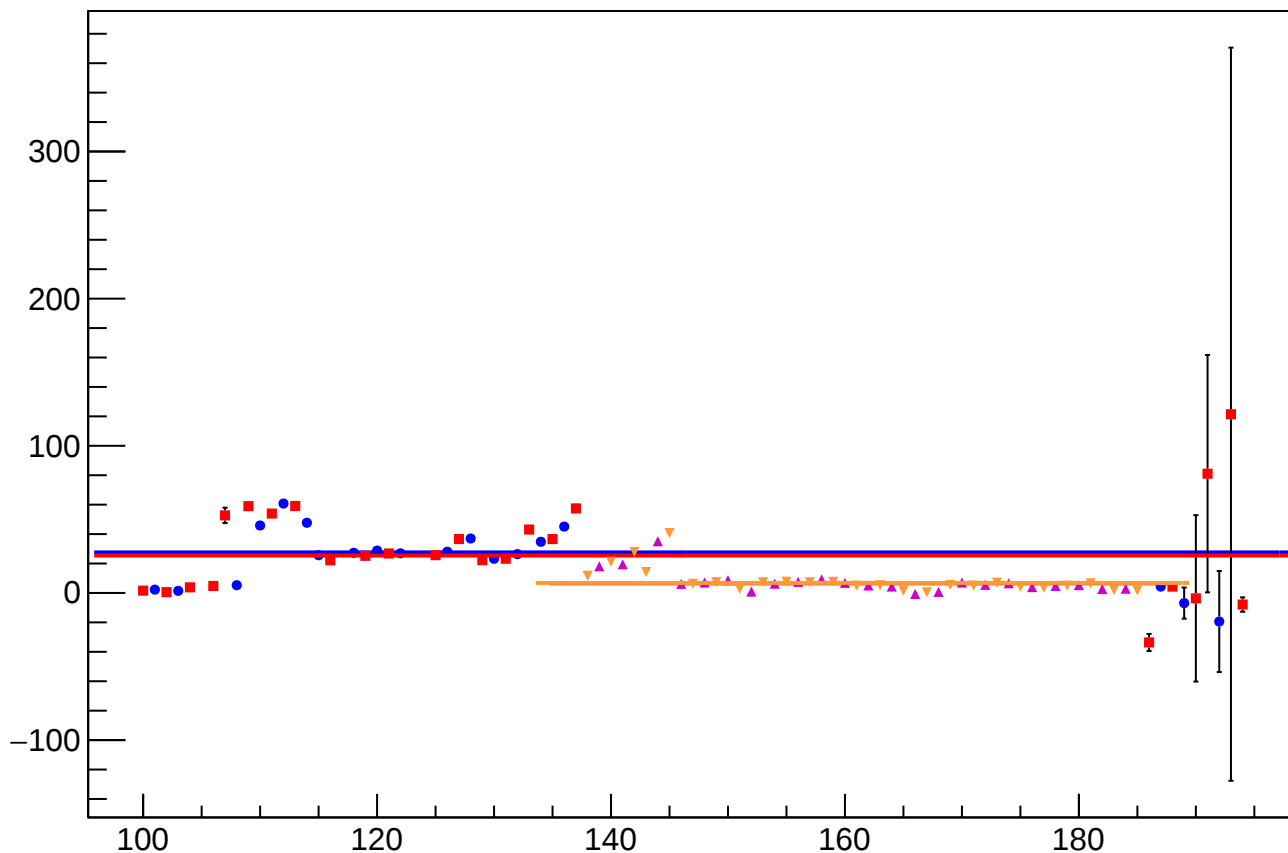
Right: 3.920 $\pm$ 0.155 χ^2 /NDF: 798.8/42

In: 2.288 $\pm$ 0.124 χ^2 /NDF:649.1/41

Out: 2.531 $\pm$ 0.122 χ^2 /NDF:618.3/48

All: 2.410 $\pm$ 0.087 χ^2 /NDF: 1269.3/90

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.546 $\pm$ 0.405 χ^2 /NDF: 1739.1/18

Left Out: 6.813 $\pm$ 0.191 χ^2 /NDF:1304.5/24

Right Out: 25.432 $\pm$ 0.370 χ^2 /NDF: 2879.8/23

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF:1018.2/22

Left: 6.672 $\pm$ 0.135 χ^2 /NDF: 2323.7/47

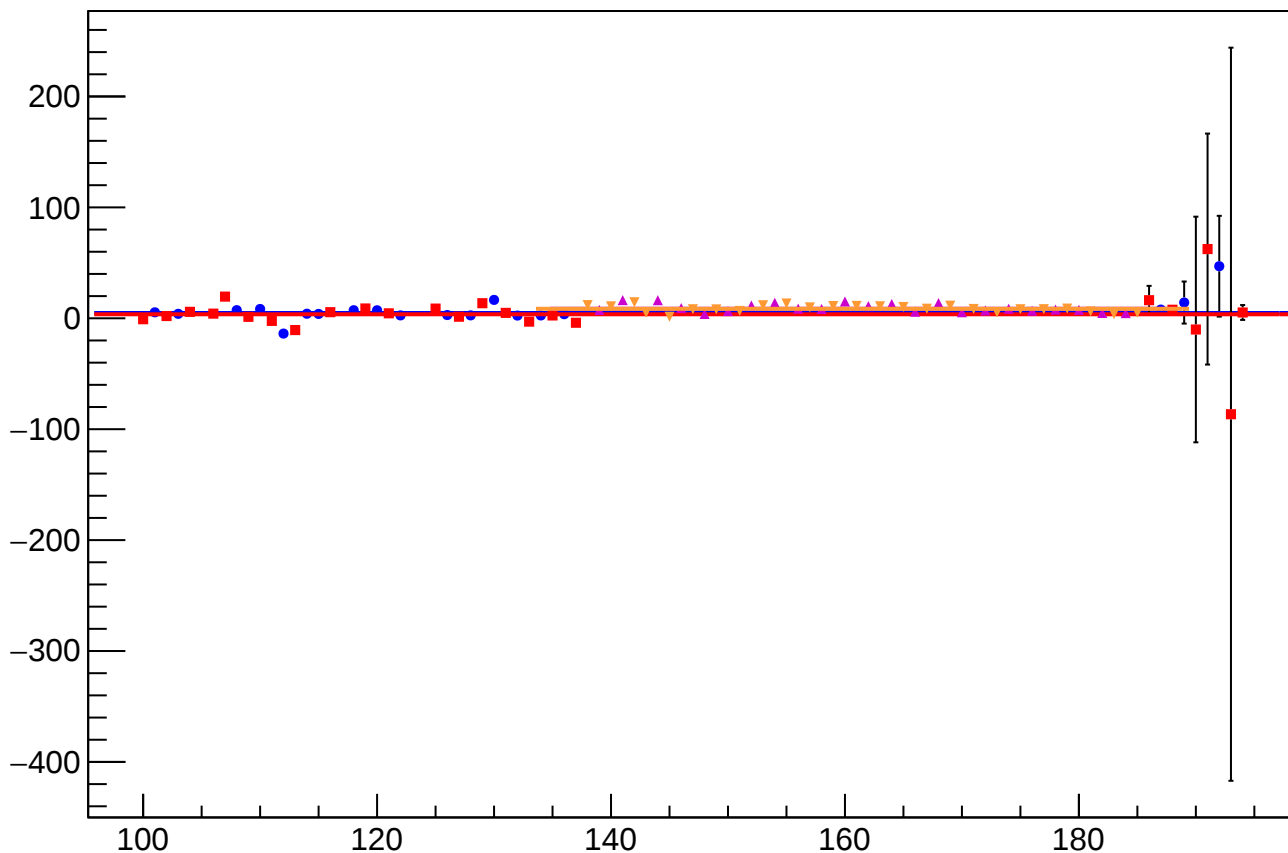
Right: 26.393 $\pm$ 0.273 χ^2 /NDF: 4633.8/42

In: 10.331 $\pm$ 0.172 χ^2 /NDF:4962.4/41

Out: 10.731 $\pm$ 0.170 χ^2 /NDF:6187.6/48

All: 10.534 $\pm$ 0.121 χ^2 /NDF: 11152.7/90

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.763 $\pm$ 0.254 χ^2 /NDF: 544.7/18

Left Out: 8.565 $\pm$ 0.168 χ^2 /NDF:248.1/24

Right Out: 3.615 $\pm$ 0.253 χ^2 /NDF: 574.0/23

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF:441.8/22

Left: 8.575 $\pm$ 0.120 χ^2 /NDF: 689.9/47

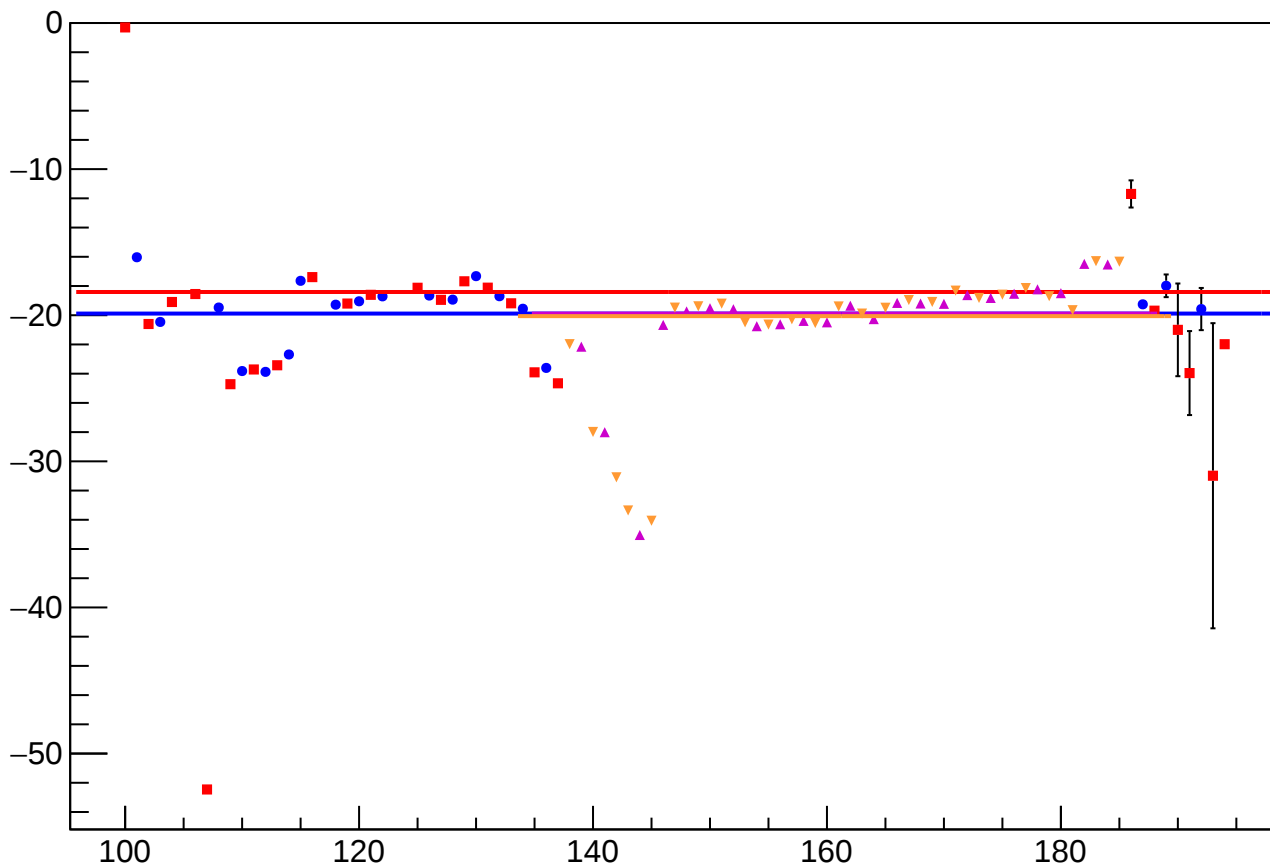
Right: 4.187 $\pm$ 0.179 χ^2 /NDF: 1128.9/42

In: 7.401 $\pm$ 0.141 χ^2 /NDF:1142.9/41

Out: 7.048 $\pm$ 0.140 χ^2 /NDF:1086.9/48

All: 7.223 $\pm$ 0.100 χ^2 /NDF: 2233.0/90

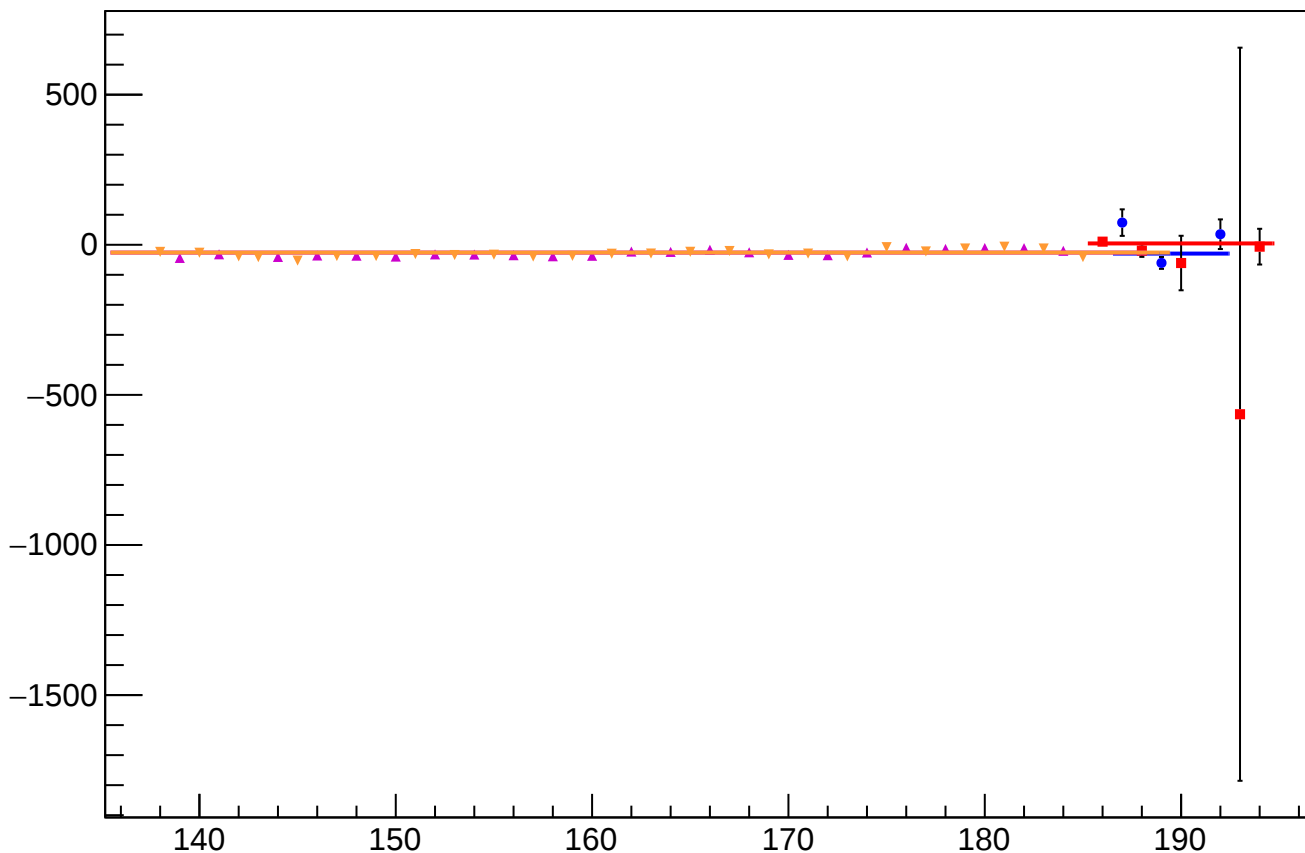
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.886 ± 0.016 $\chi^2/\text{NDF}: 26021.5/18$
 Left Out: -20.061 ± 0.008 $\chi^2/\text{NDF}: 185580.2/24$
 Right Out: -18.409 ± 0.015 $\chi^2/\text{NDF}: 301464.5/23$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.976 ± 0.006 $\chi^2/\text{NDF}: 329872.6/47$
 Right: -19.100 ± 0.011 $\chi^2/\text{NDF}: 332241.7/42$
 In: -19.890 ± 0.007 $\chi^2/\text{NDF}: 170076.7/41$
 Out: -19.691 ± 0.007 $\chi^2/\text{NDF}: 496915.3/48$
 All: -19.789 ± 0.005 $\chi^2/\text{NDF}: 667396.4/90$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.329 ± 16.964 χ^2/NDF : 9.6/2

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 4.484 ± 8.479 χ^2/NDF : 2.5/4

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

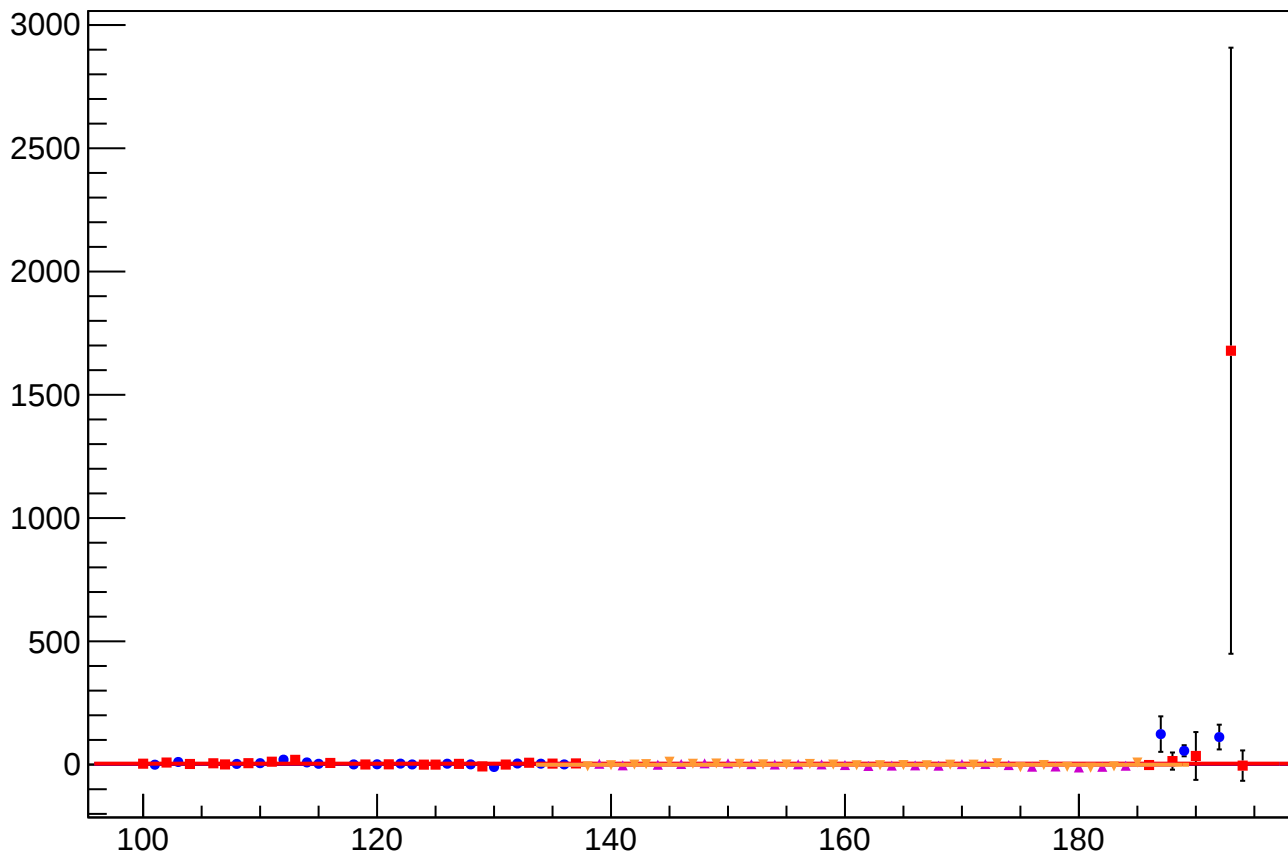
Right: -2.275 ± 7.584 χ^2/NDF : 15.3/7

In: -26.053 ± 0.195 χ^2/NDF : 3289.2/25

Out: -25.869 ± 0.192 χ^2/NDF : 4173.3/29

All: -25.959 ± 0.137 χ^2/NDF : 7462.9/55

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.471+/-0.315 χ^2/NDF : 307.6/19

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.710+/-0.327 χ^2/NDF : 271.4/23

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

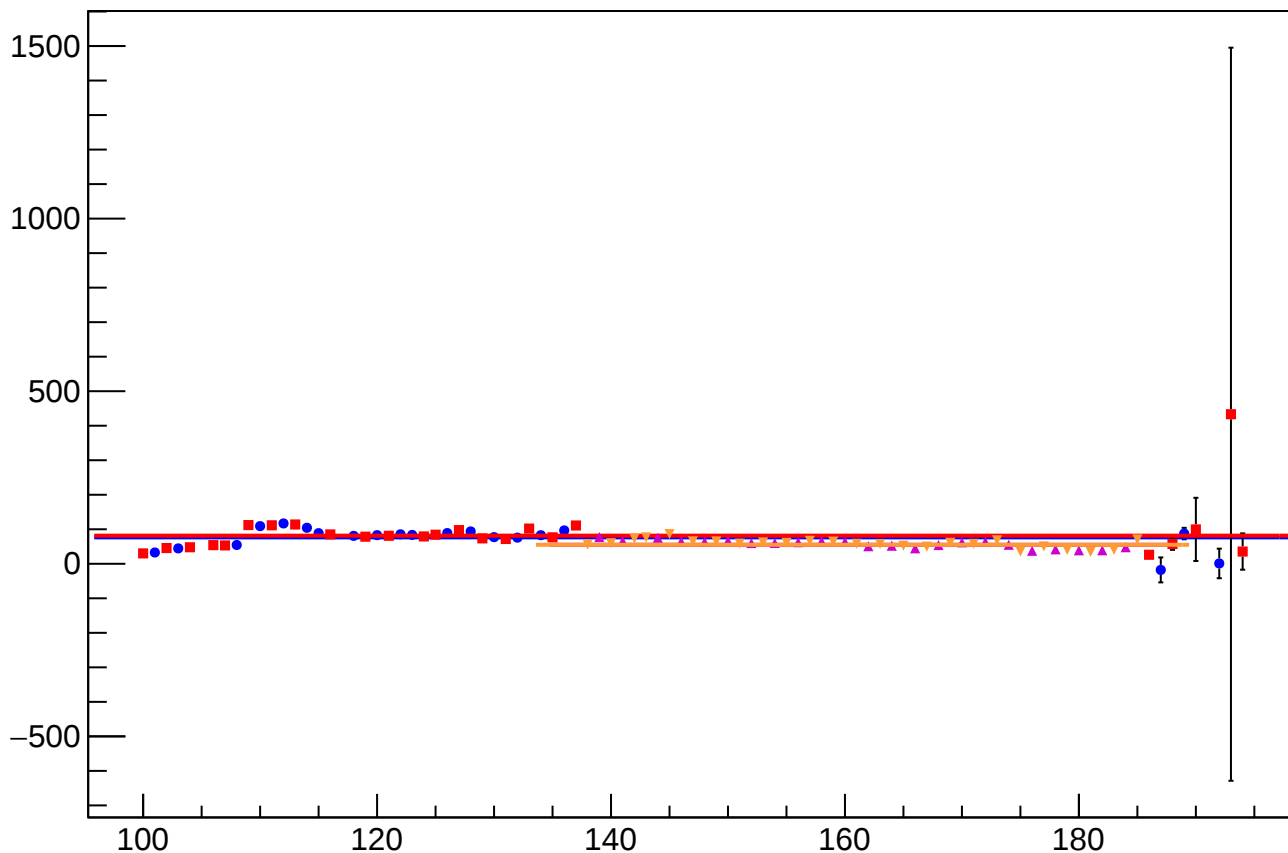
Right: 3.068+/-0.227 χ^2/NDF : 586.4/43

In: -0.243+/-0.136 χ^2/NDF : 1465.5/42

Out: 0.074+/-0.133 χ^2/NDF : 1741.0/48

All: -0.082+/-0.095 χ^2/NDF : 3209.2/91

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.530 $\pm$ 0.576 χ^2 /NDF: 2263.1/19

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.512 $\pm$ 0.591 χ^2 /NDF: 1627.5/23

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

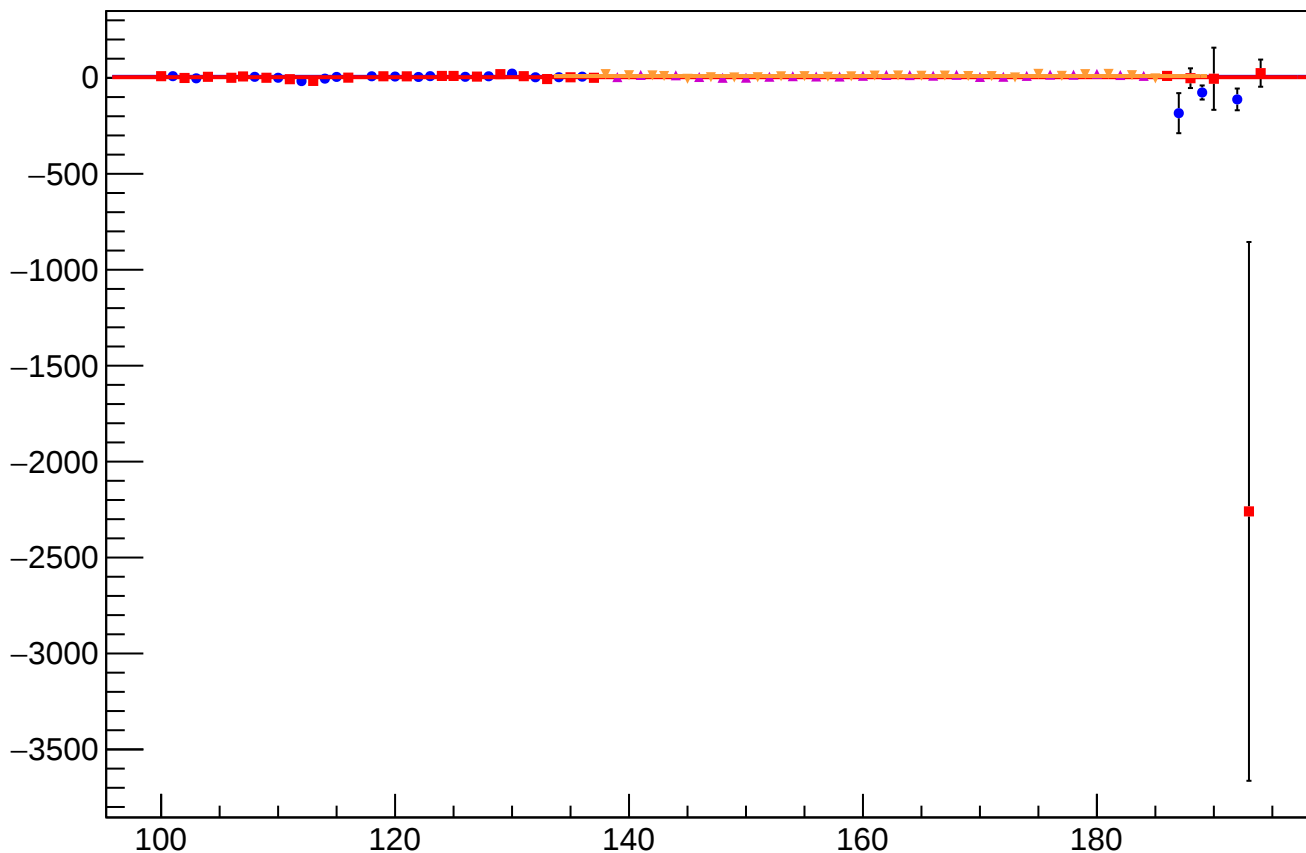
Right: 78.961 $\pm$ 0.413 χ^2 /NDF: 3927.1/43

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7211.6/42

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8016.6/48

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15230.1/91

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.413+/-0.361 χ^2/NDF : 398.2/19

Left Out: 9.737+/-0.168 χ^2/NDF :1450.2/24

Right Out: 3.585+/-0.375 χ^2/NDF : 424.5/23

Left In: 9.803+/-0.172 χ^2/NDF :1158.7/22

Left: 9.769+/-0.120 χ^2/NDF : 2609.0/47

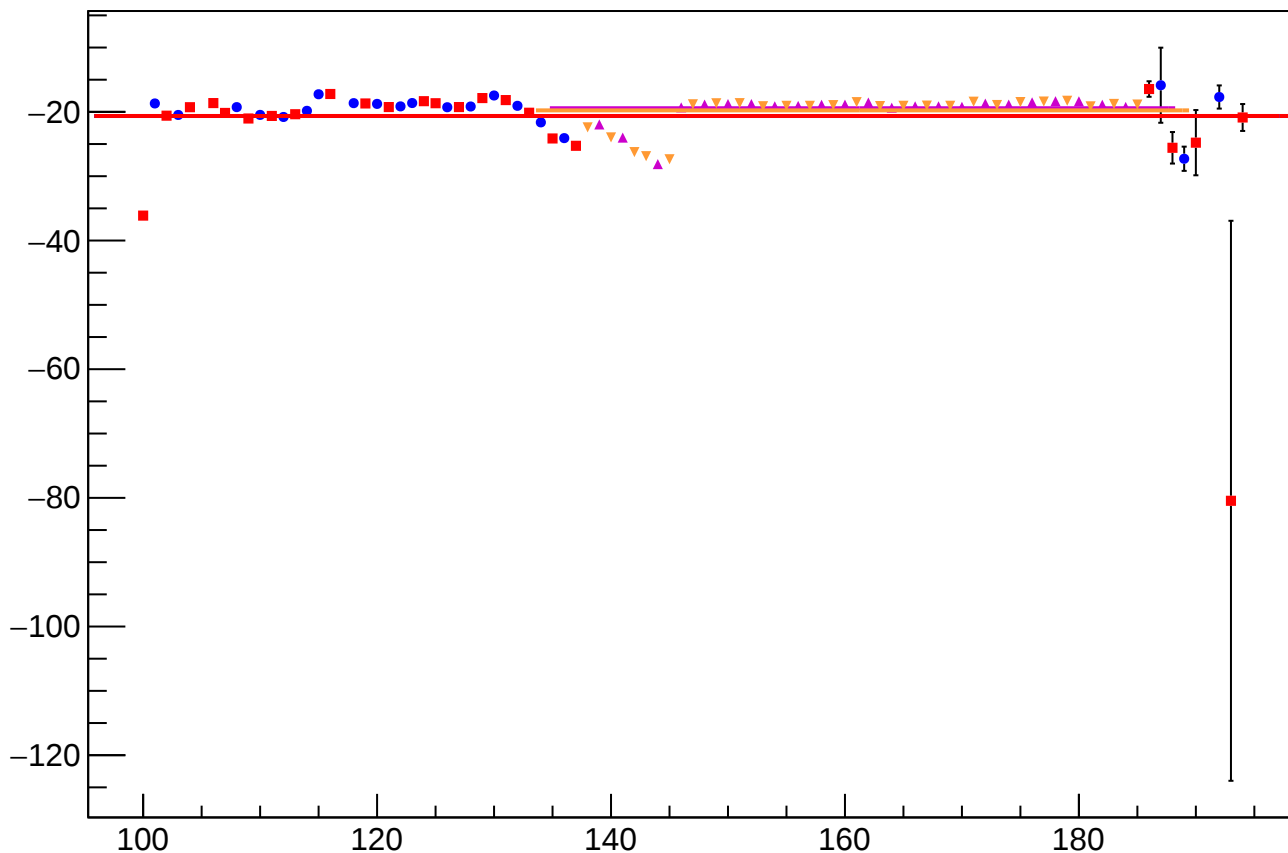
Right: 4.535+/-0.260 χ^2/NDF : 835.0/43

In: 8.993+/-0.155 χ^2/NDF :1677.6/42

Out: 8.713+/-0.153 χ^2/NDF :2098.4/48

All: 8.852+/-0.109 χ^2/NDF : 3777.7/91

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12440.0/19

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13804.6/23

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

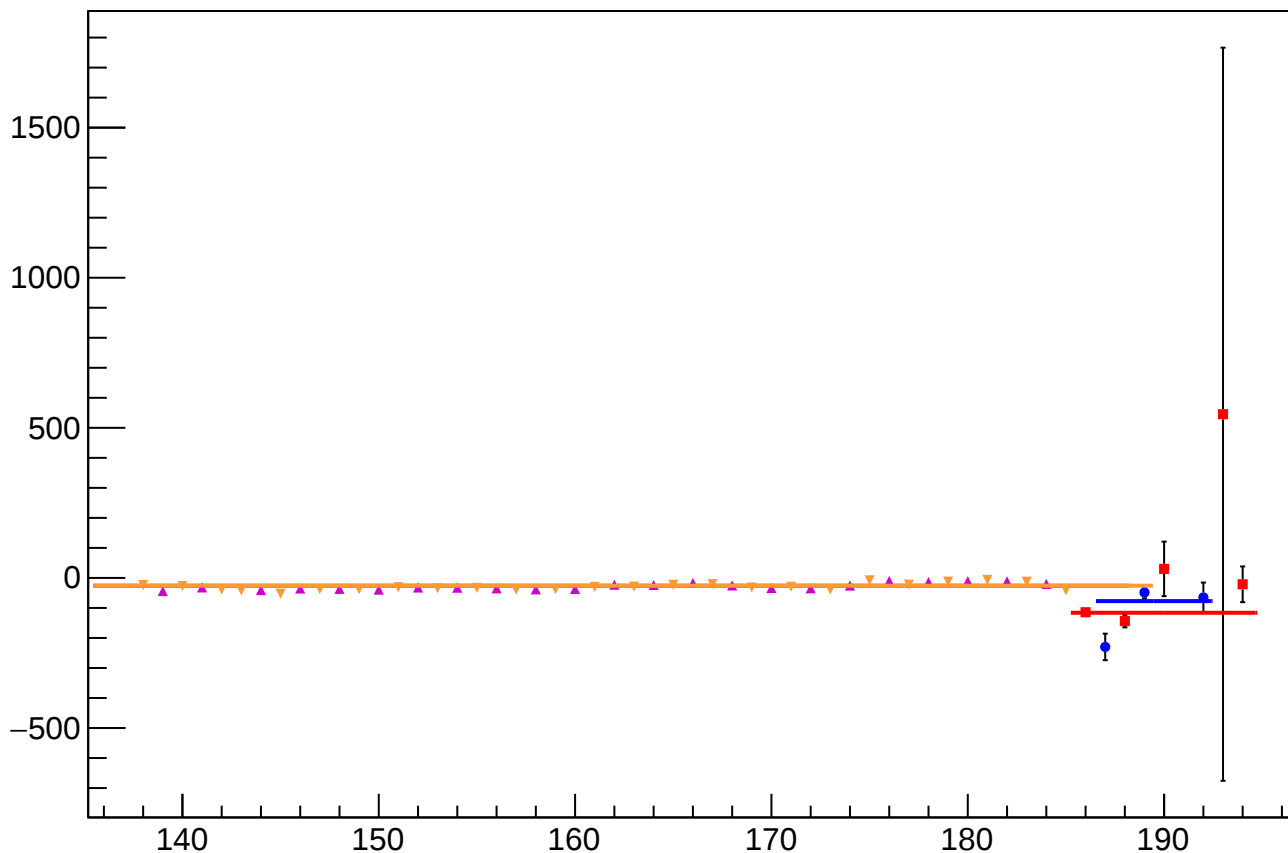
Right: -20.642 $\pm$ 0.014 χ^2 /NDF: 26244.6/43

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68949.8/42

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107146.3/48

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176824.8/91

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -77.223 ± 16.979 $\chi^2/\text{NDF}: 14.1/2$

Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$

Right Out: -116.041 ± 8.485 $\chi^2/\text{NDF}: 7.2/4$

Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$

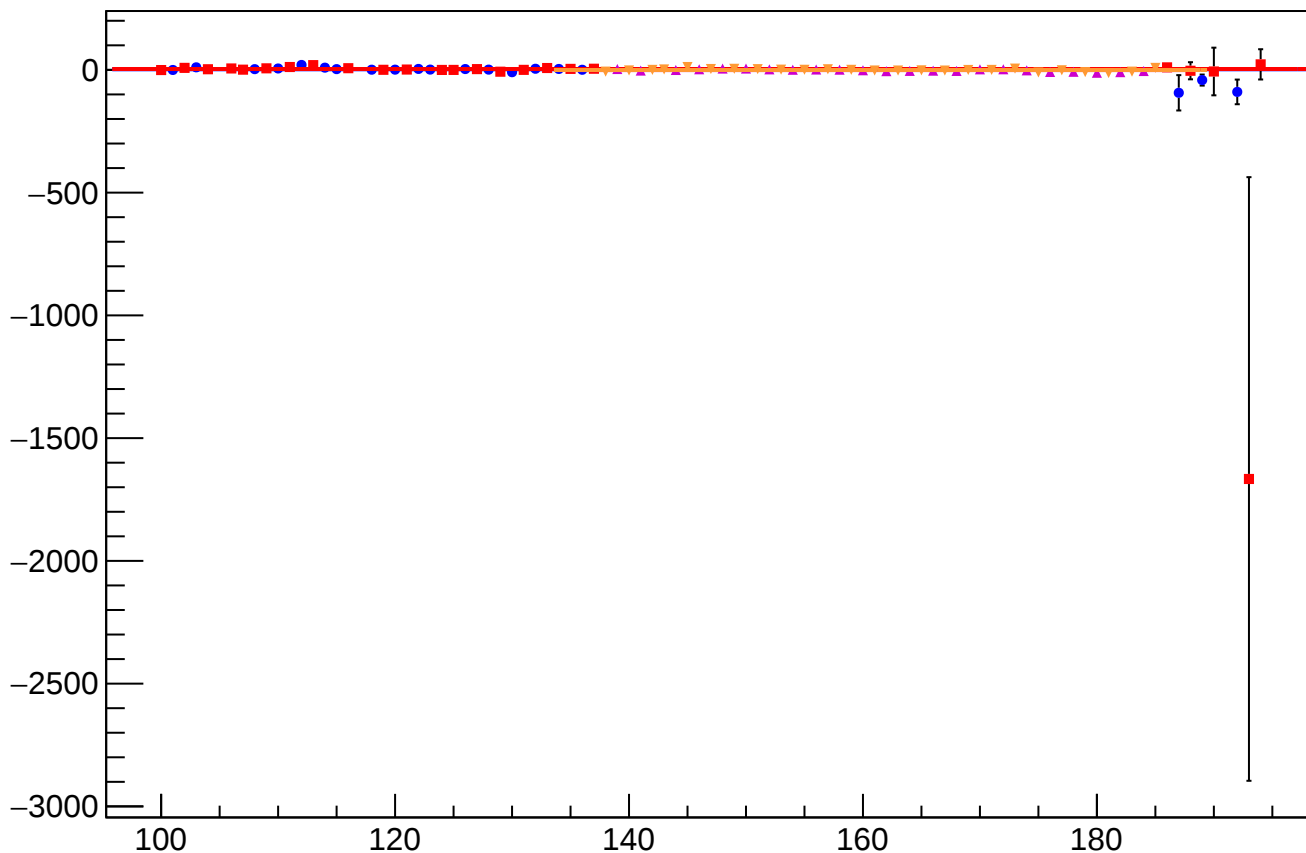
Right: -108.284 ± 7.590 $\chi^2/\text{NDF}: 25.5/7$

In: -26.053 ± 0.195 $\chi^2/\text{NDF}: 3269.9/25$

Out: -25.945 ± 0.192 $\chi^2/\text{NDF}: 4247.6/29$

All: -25.998 ± 0.137 $\chi^2/\text{NDF}: 7517.7/55$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.441 ± 0.315 χ^2/NDF : 301.3/19

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.596 ± 0.318 χ^2/NDF : 282.4/23

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

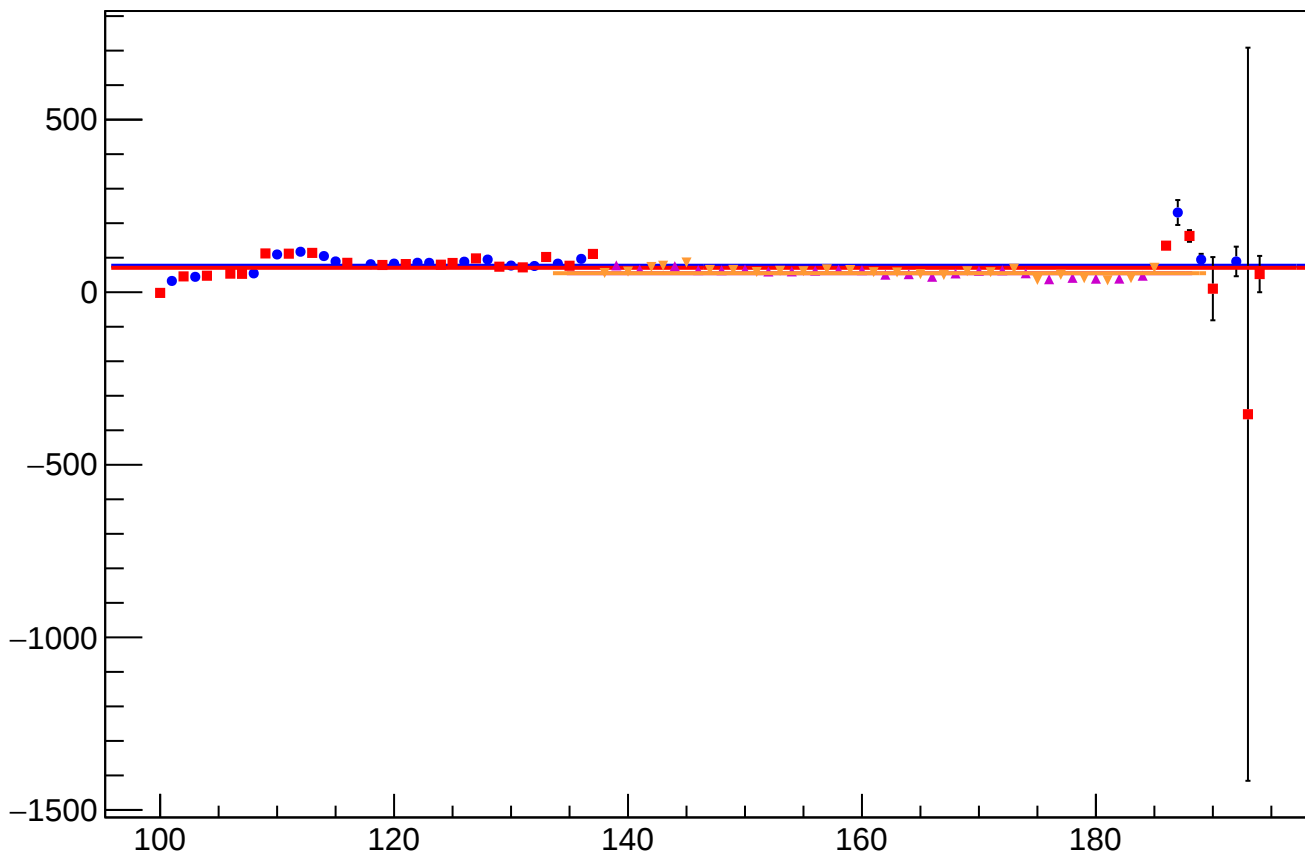
Right: 3.013 ± 0.224 χ^2/NDF : 590.3/43

In: -0.193 ± 0.136 χ^2/NDF : 1493.5/42

Out: 0.136 ± 0.133 χ^2/NDF : 1736.6/48

All: -0.025 ± 0.095 χ^2/NDF : 3233.1/91

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.738 $\pm$ 0.577 χ^2 /NDF: 2284.3/19

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.747 $\pm$ 0.549 χ^2 /NDF: 4489.9/23

Left In: 55.094 $\pm$ 0.194 χ^2 /NDF: 3664.6/22

Left: 55.103 $\pm$ 0.136 χ^2 /NDF: 8224.8/47

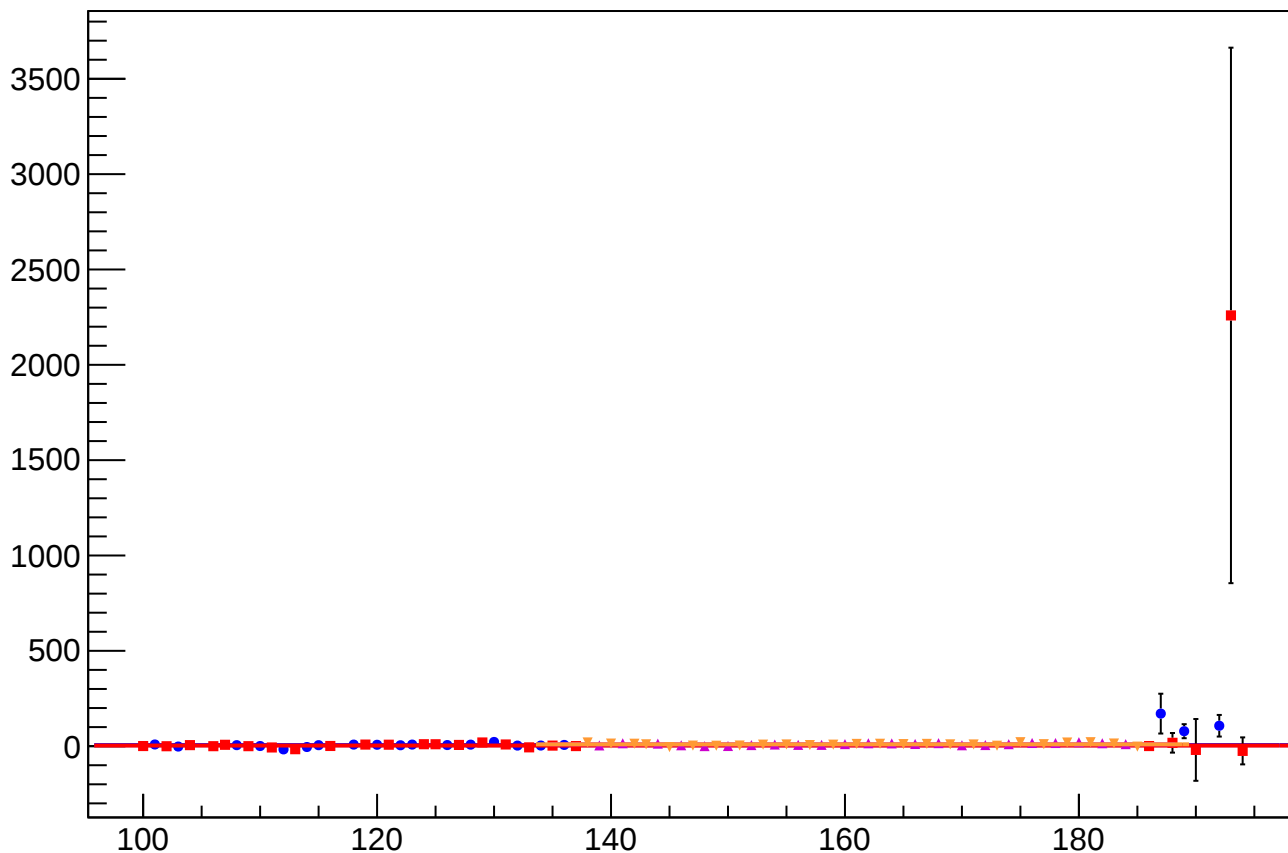
Right: 73.594 $\pm$ 0.398 χ^2 /NDF: 6830.8/43

In: 57.286 $\pm$ 0.184 χ^2 /NDF: 7214.5/42

Out: 56.810 $\pm$ 0.181 χ^2 /NDF: 9773.7/48

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 16991.7/91

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.441 $\pm$ 0.361 χ^2 /NDF: 393.9/19

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.279 $\pm$ 0.366 χ^2 /NDF: 427.9/23

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

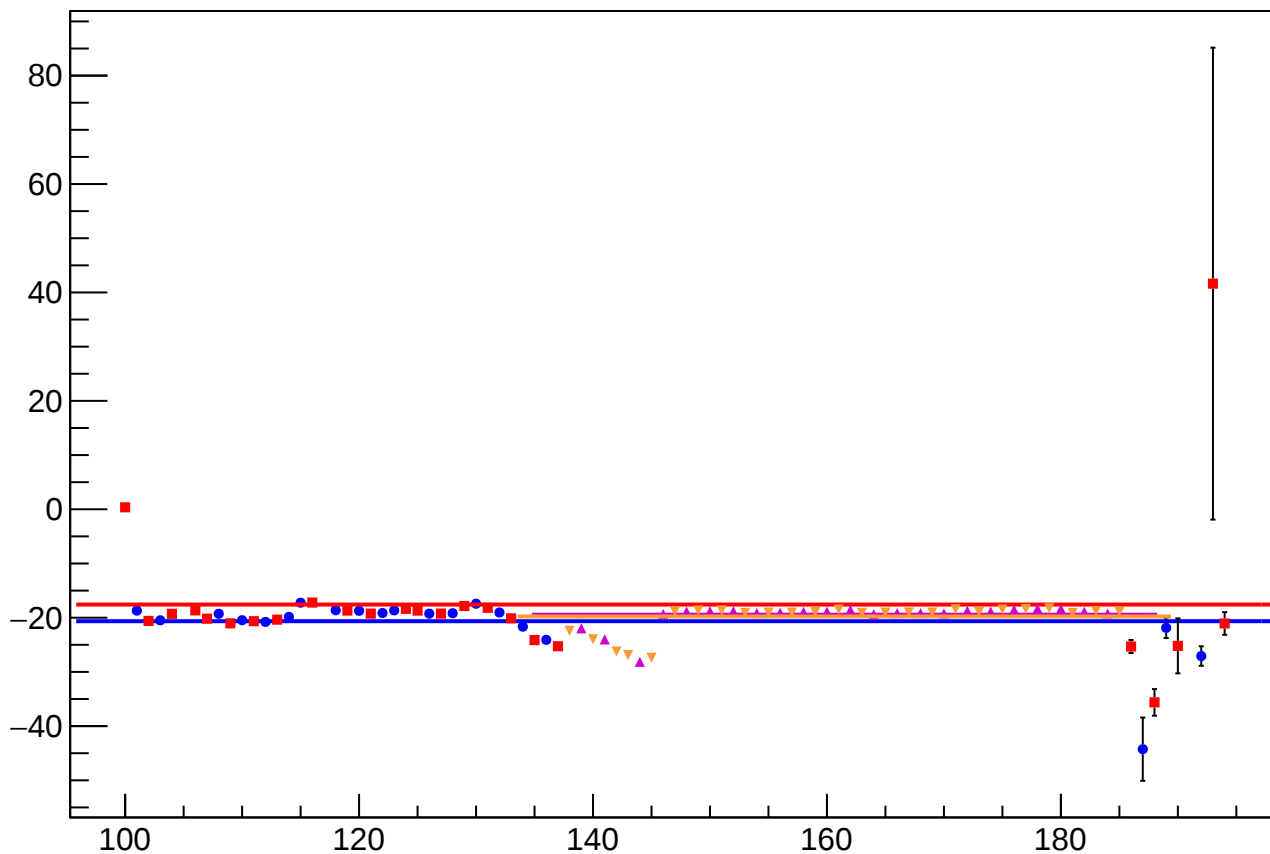
Right: 4.373 $\pm$ 0.257 χ^2 /NDF: 839.5/43

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1700.5/42

Out: 8.561 $\pm$ 0.153 χ^2 /NDF:2122.2/48

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3825.8/91

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.646 ± 0.019 $\chi^2/\text{NDF}: 12492.2/19$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.574 ± 0.018 $\chi^2/\text{NDF}: 178420.3/23$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

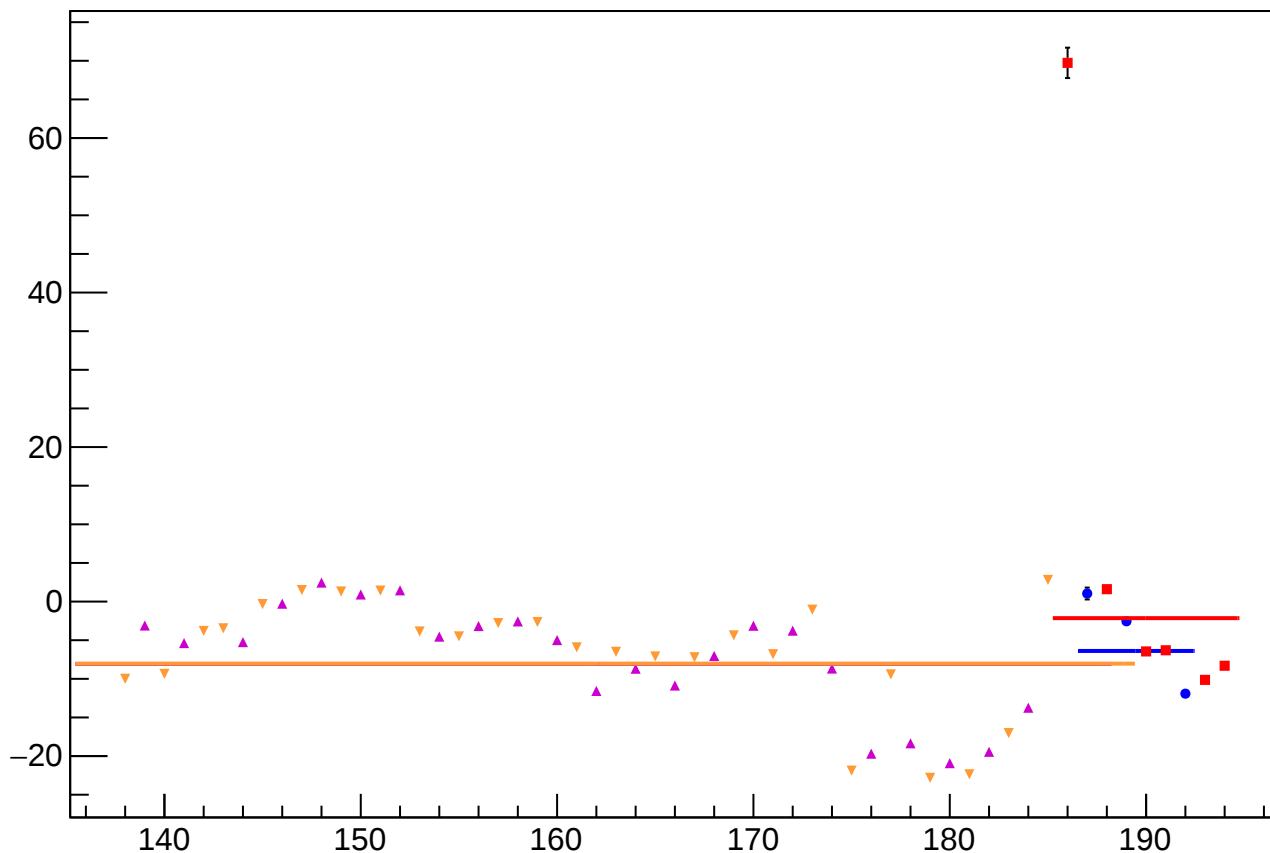
Right: -19.002 ± 0.013 $\chi^2/\text{NDF}: 204386.3/43$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68911.2/42$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282418.2/48$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351692.6/91$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



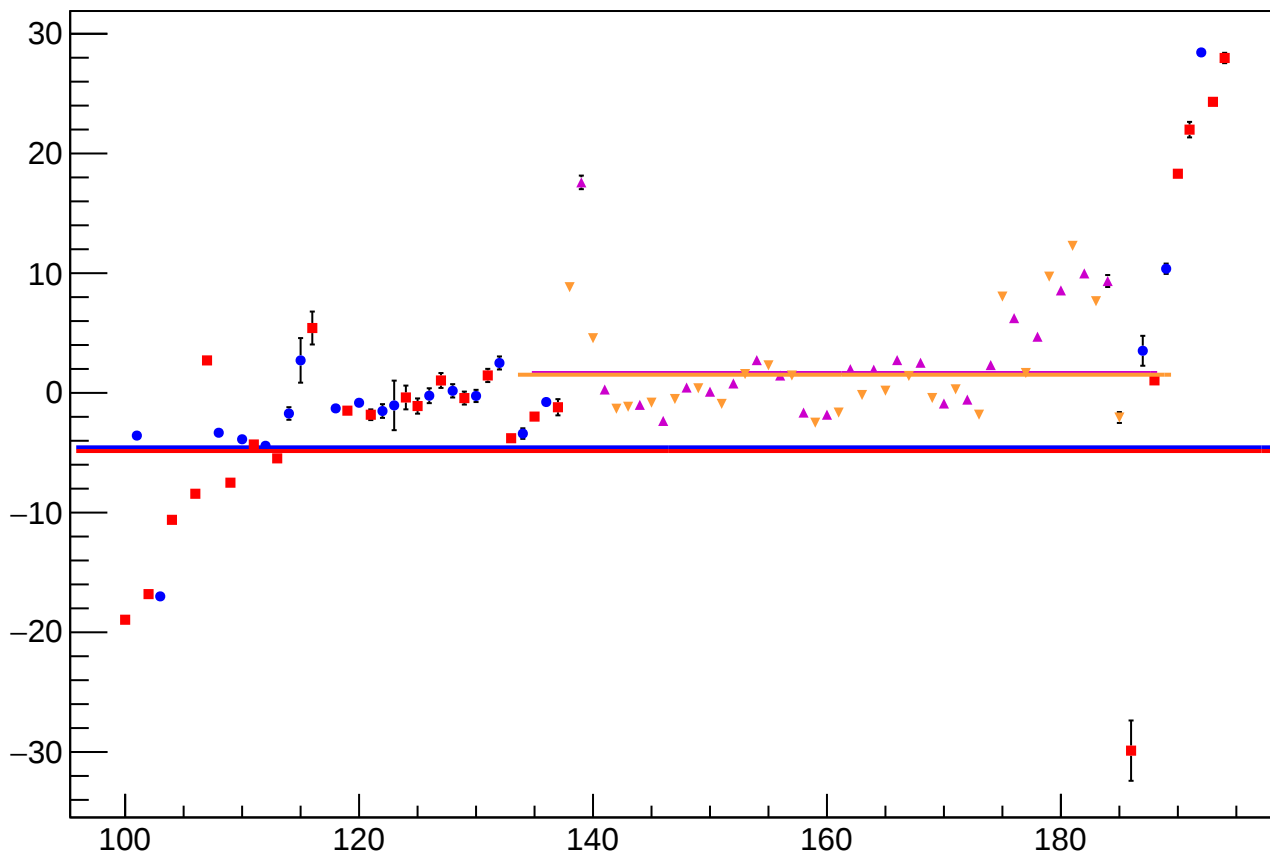
Right In: -6.391 ± 0.261 $\chi^2/\text{NDF}: 390.5/2$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -2.145 ± 0.139 $\chi^2/\text{NDF}: 2539.3/5$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -3.090 ± 0.123 $\chi^2/\text{NDF}: 3136.1/8$

In: -7.958 ± 0.069 $\chi^2/\text{NDF}: 10971.0/25$
 Out: -6.841 ± 0.063 $\chi^2/\text{NDF}: 16529.2/30$

All: -7.344 ± 0.047 $\chi^2/\text{NDF}: 27643.1/56$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.549 ± 0.054 $\chi^2/\text{NDF}: 17615.9/19$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -4.858 ± 0.056 $\chi^2/\text{NDF}: 30307.5/24$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

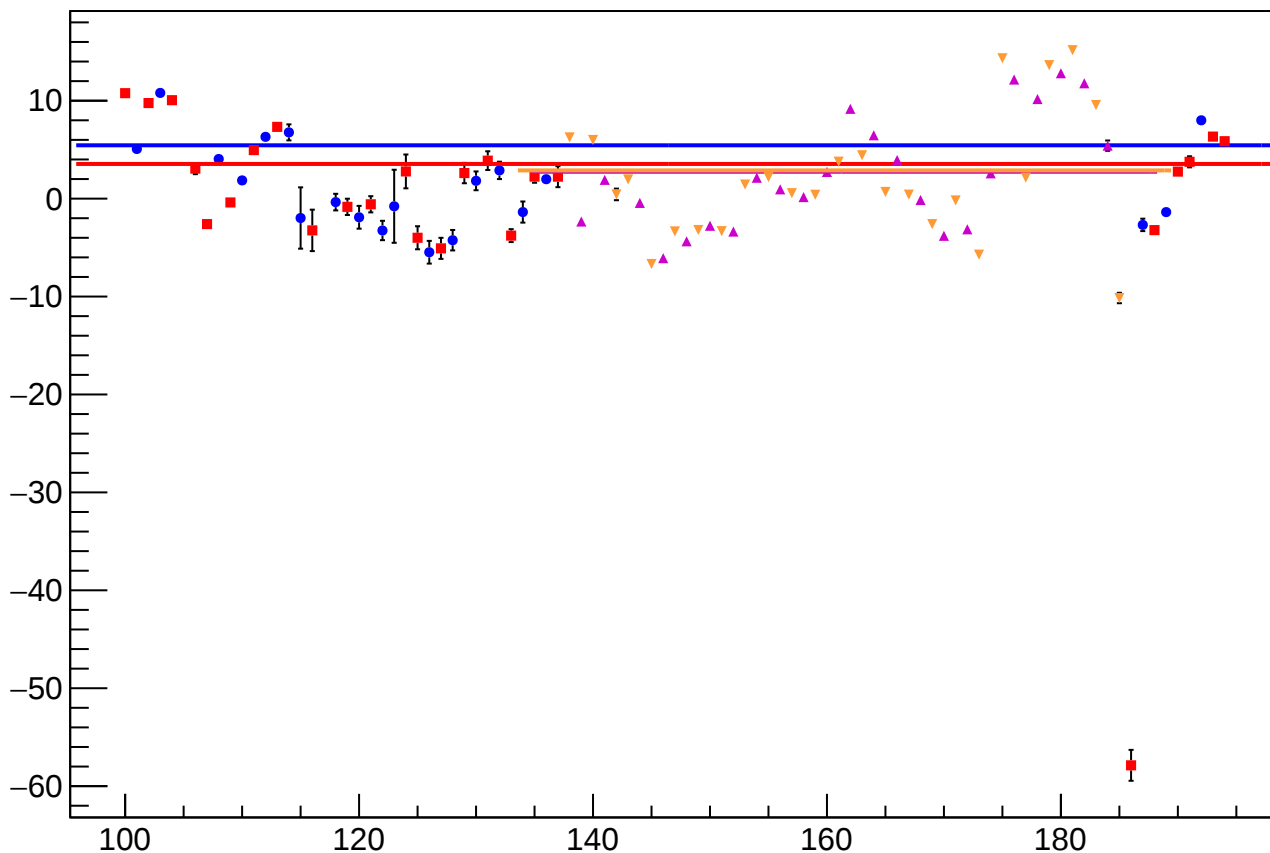
Right: -4.698 ± 0.039 $\chi^2/\text{NDF}: 47939.2/44$

In: -1.594 ± 0.039 $\chi^2/\text{NDF}: 27970.0/42$

Out: -1.580 ± 0.039 $\chi^2/\text{NDF}: 41838.6/49$

All: -1.587 ± 0.028 $\chi^2/\text{NDF}: 69808.7/92$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.447 ± 0.084 χ^2/NDF : 2028.3/19

Left Out: 2.884 ± 0.070 χ^2/NDF : 8893.2/24

Right Out: 3.542 ± 0.074 χ^2/NDF : 7025.5/24

Left In: 2.745 ± 0.071 χ^2/NDF : 7183.1/22

Left: 2.816 ± 0.050 χ^2/NDF : 16078.2/47

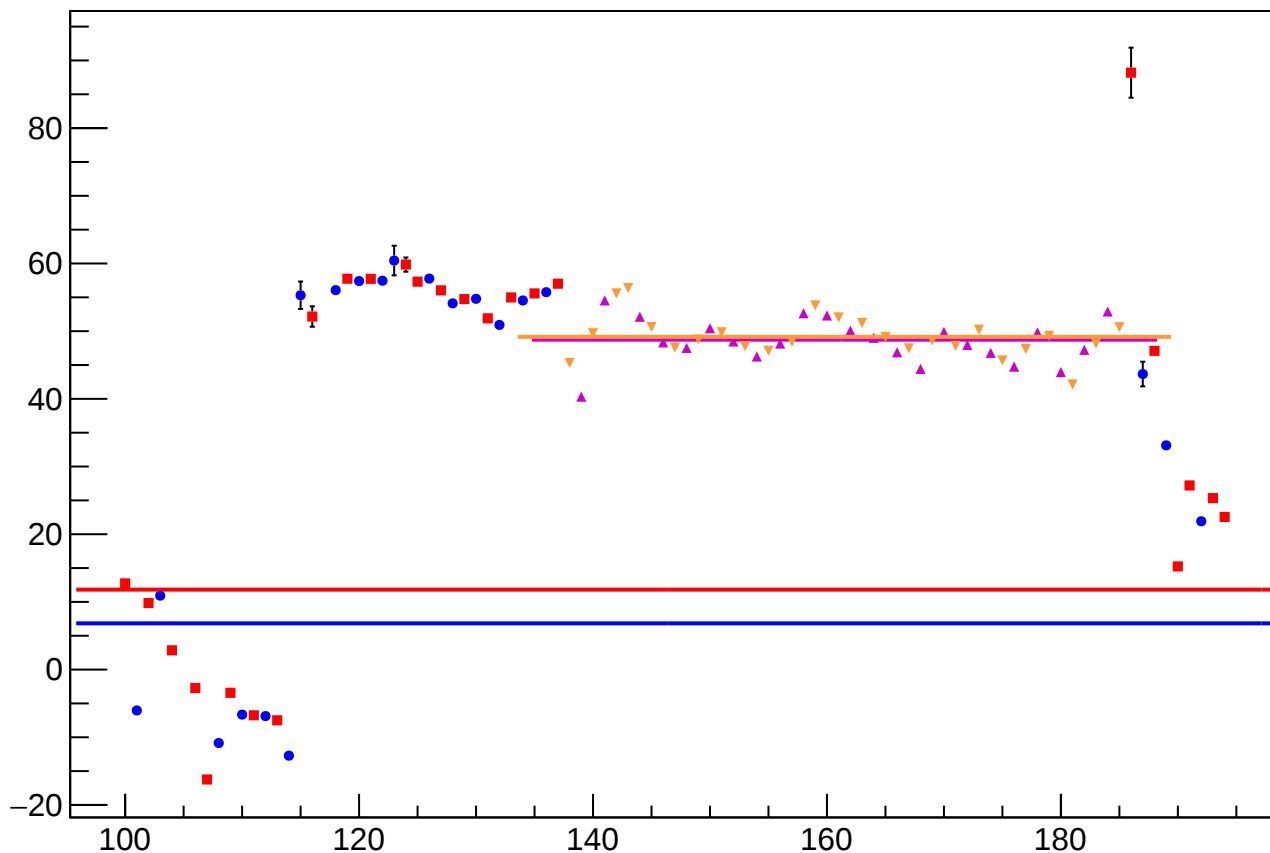
Right: 4.373 ± 0.055 χ^2/NDF : 9346.4/44

In: 3.886 ± 0.054 χ^2/NDF : 9814.9/42

Out: 3.198 ± 0.051 χ^2/NDF : 15960.6/49

All: 3.519 ± 0.037 χ^2/NDF : 25861.0/92

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.834 ± 0.064 $\chi^2/\text{NDF}: 123829.1/19$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 11.815 ± 0.067 $\chi^2/\text{NDF}: 132201.4/24$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

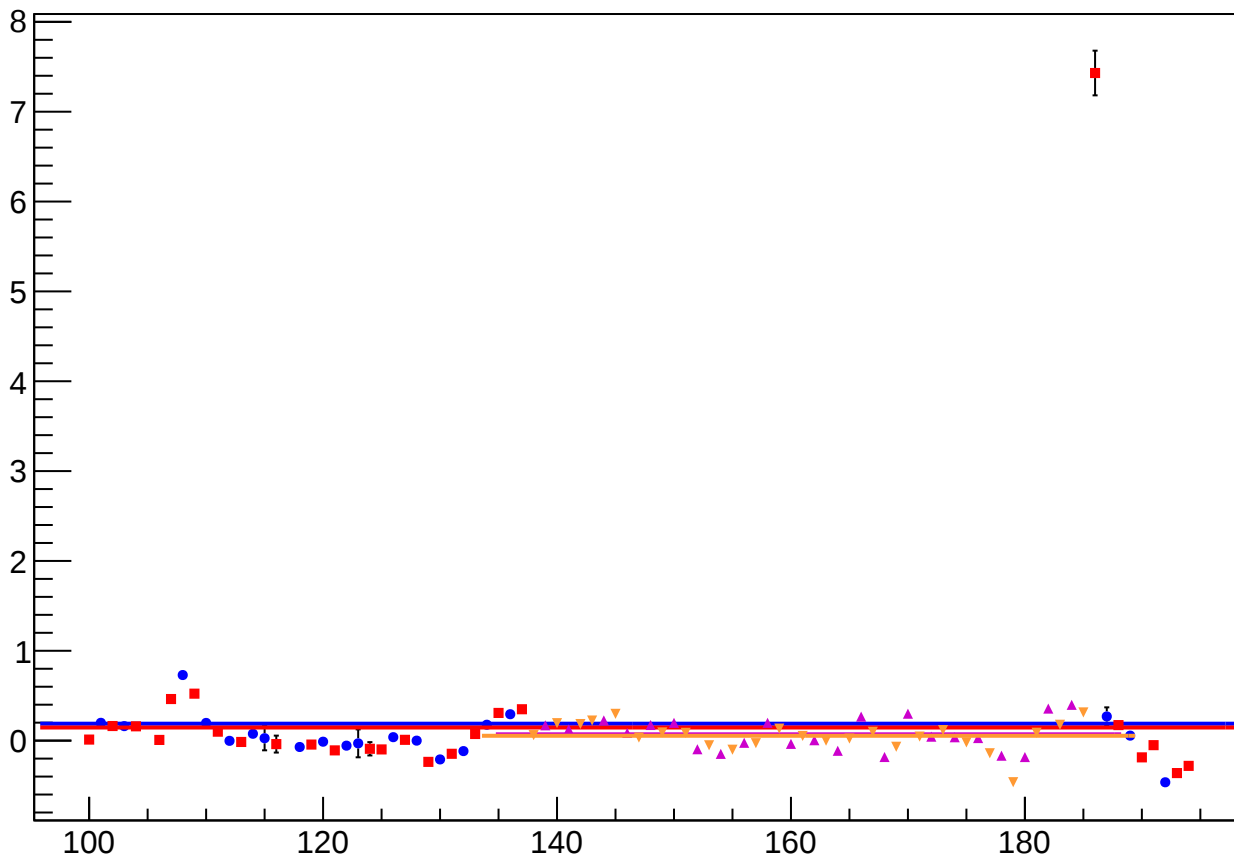
Right: 9.214 ± 0.046 $\chi^2/\text{NDF}: 258938.6/44$

In: 27.817 ± 0.045 $\chi^2/\text{NDF}: 341620.8/42$

Out: 31.942 ± 0.045 $\chi^2/\text{NDF}: 303187.6/49$

All: 29.870 ± 0.032 $\chi^2/\text{NDF}: 648969.4/92$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.188+/-0.003 χ^2/NDF : 6164.5/19

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.146+/-0.003 χ^2/NDF : 6268.0/24

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

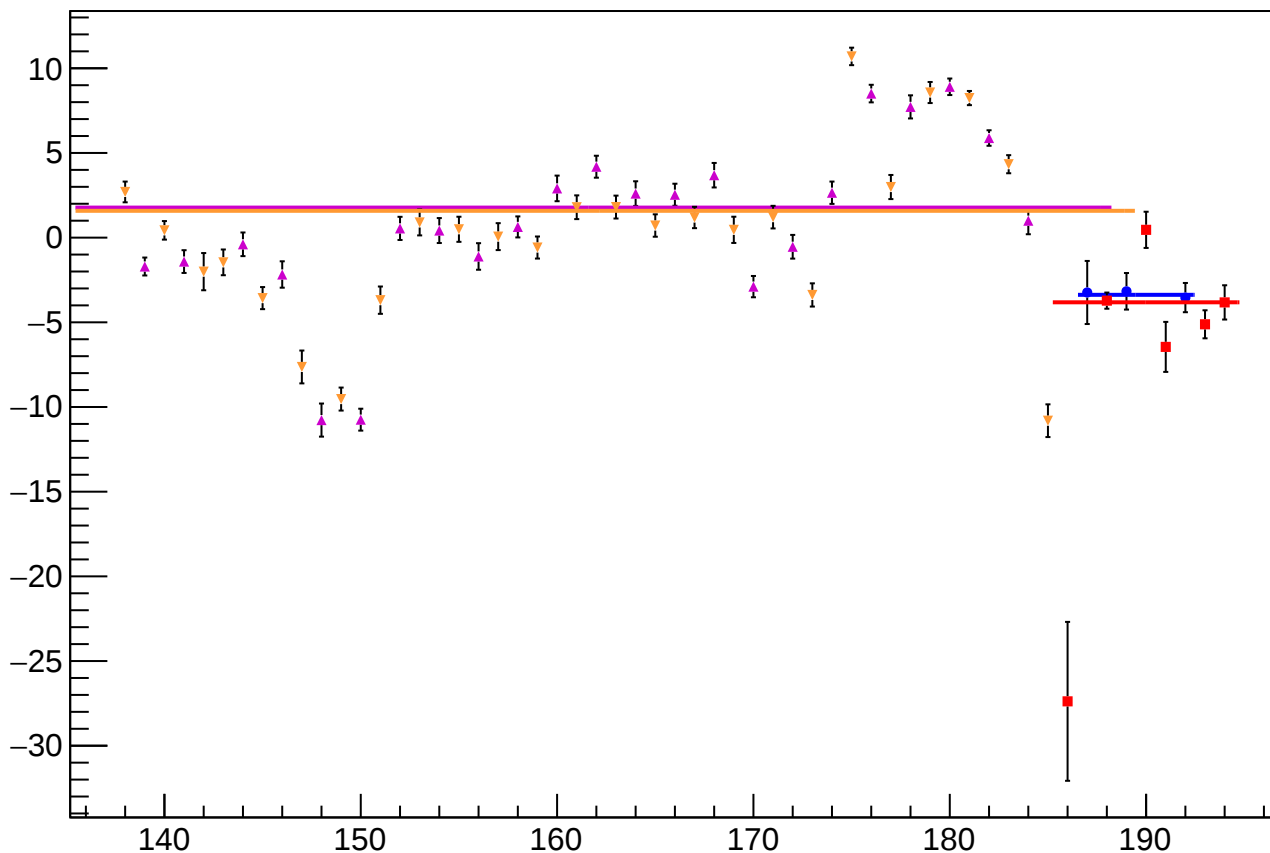
Right: 0.166+/-0.002 χ^2/NDF : 12564.4/44

In: 0.133+/-0.002 χ^2/NDF : 10299.9/42

Out: 0.105+/-0.002 χ^2/NDF : 9236.0/49

All: 0.118+/-0.001 χ^2/NDF : 19641.1/92

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.377 ± 0.634 χ^2/NDF : 0.1/2

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.819 ± 0.349 χ^2/NDF : 46.9/5

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

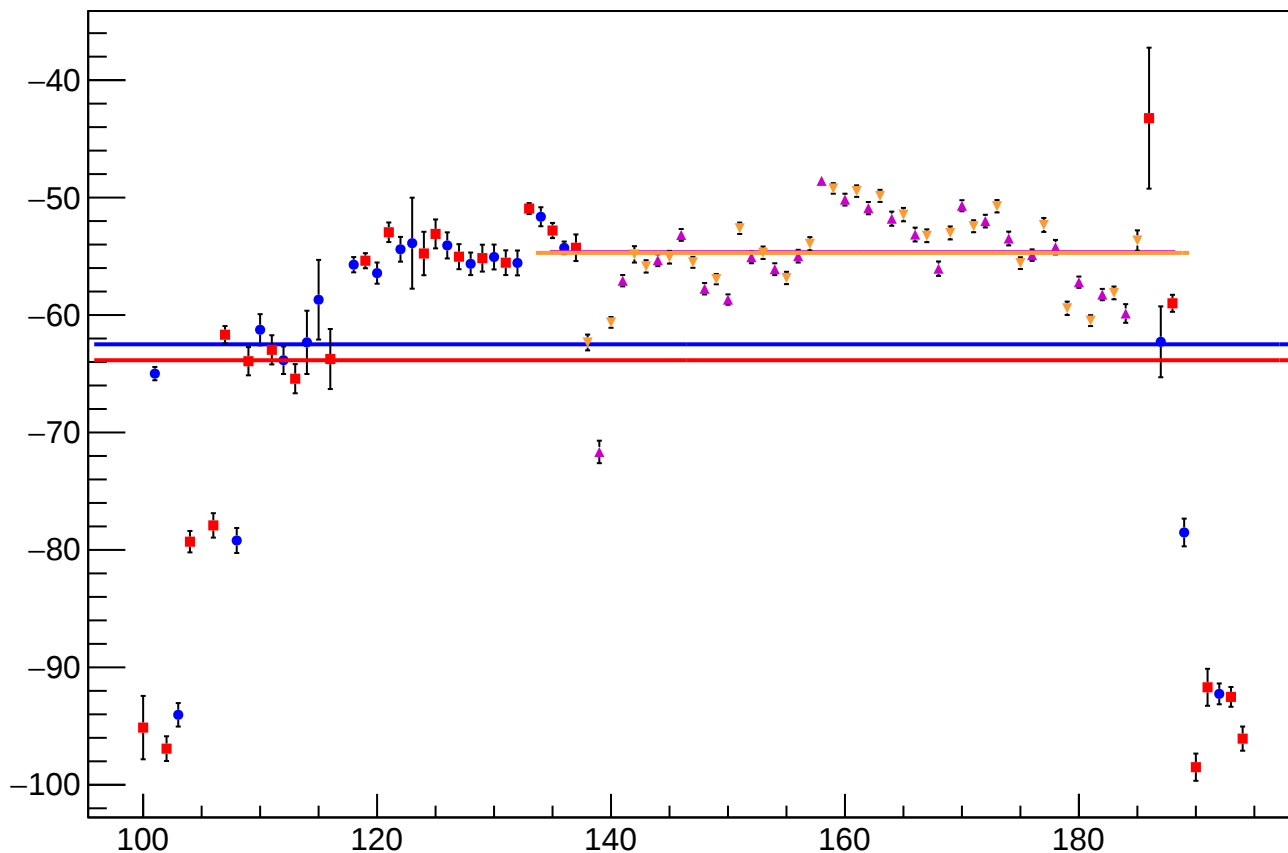
Right: -3.716 ± 0.306 χ^2/NDF : 47.4/8

In: 1.550 ± 0.132 χ^2/NDF : 1360.5/25

Out: 0.902 ± 0.124 χ^2/NDF : 1715.1/30

All: 1.205 ± 0.090 χ^2/NDF : 3088.4/56

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -62.493 ± 0.214 χ^2/NDF : 3406.9/19

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -63.849 ± 0.190 χ^2/NDF : 6758.8/24

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

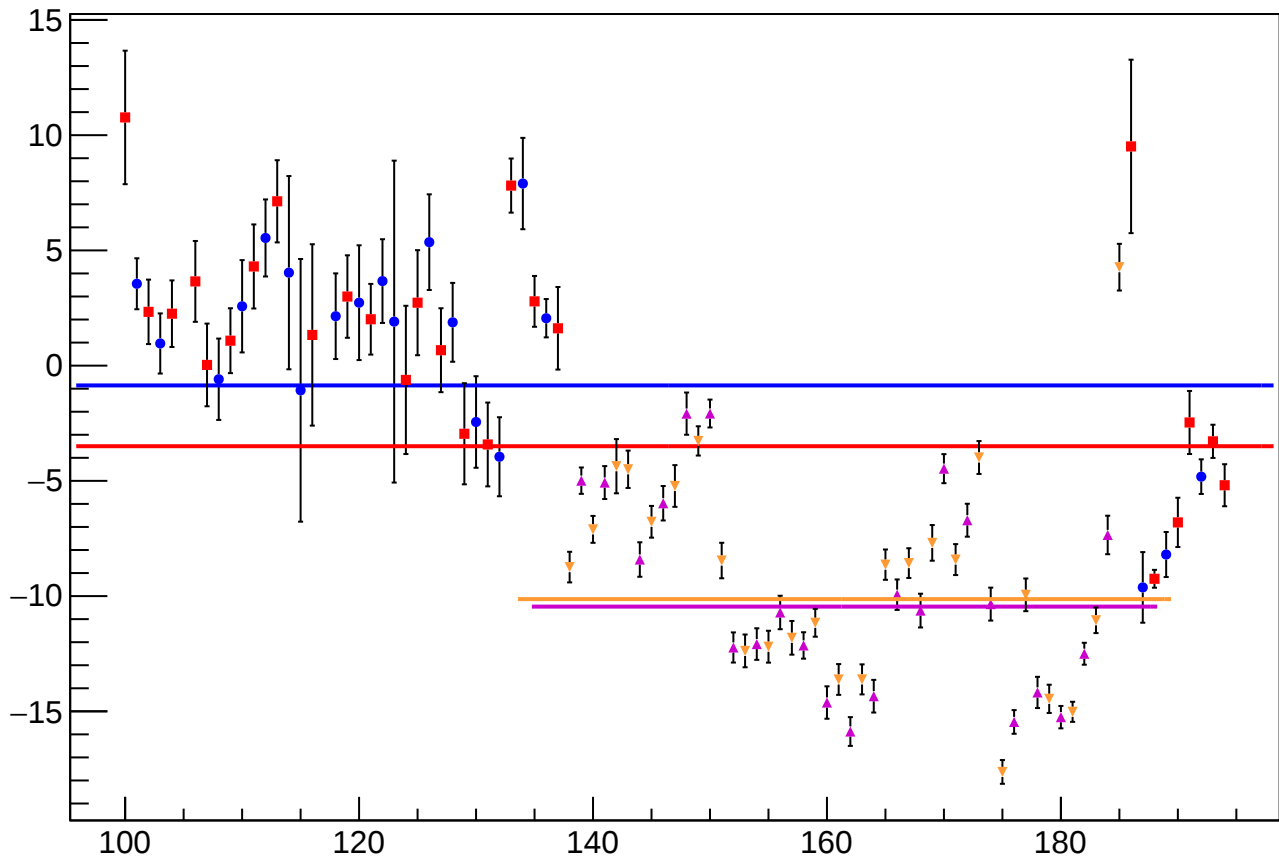
Right: -63.251 ± 0.142 χ^2/NDF : 10188.1/44

In: -56.283 ± 0.098 χ^2/NDF : 5546.7/42

Out: -56.865 ± 0.092 χ^2/NDF : 9650.9/49

All: -56.590 ± 0.067 χ^2/NDF : 15216.4/92

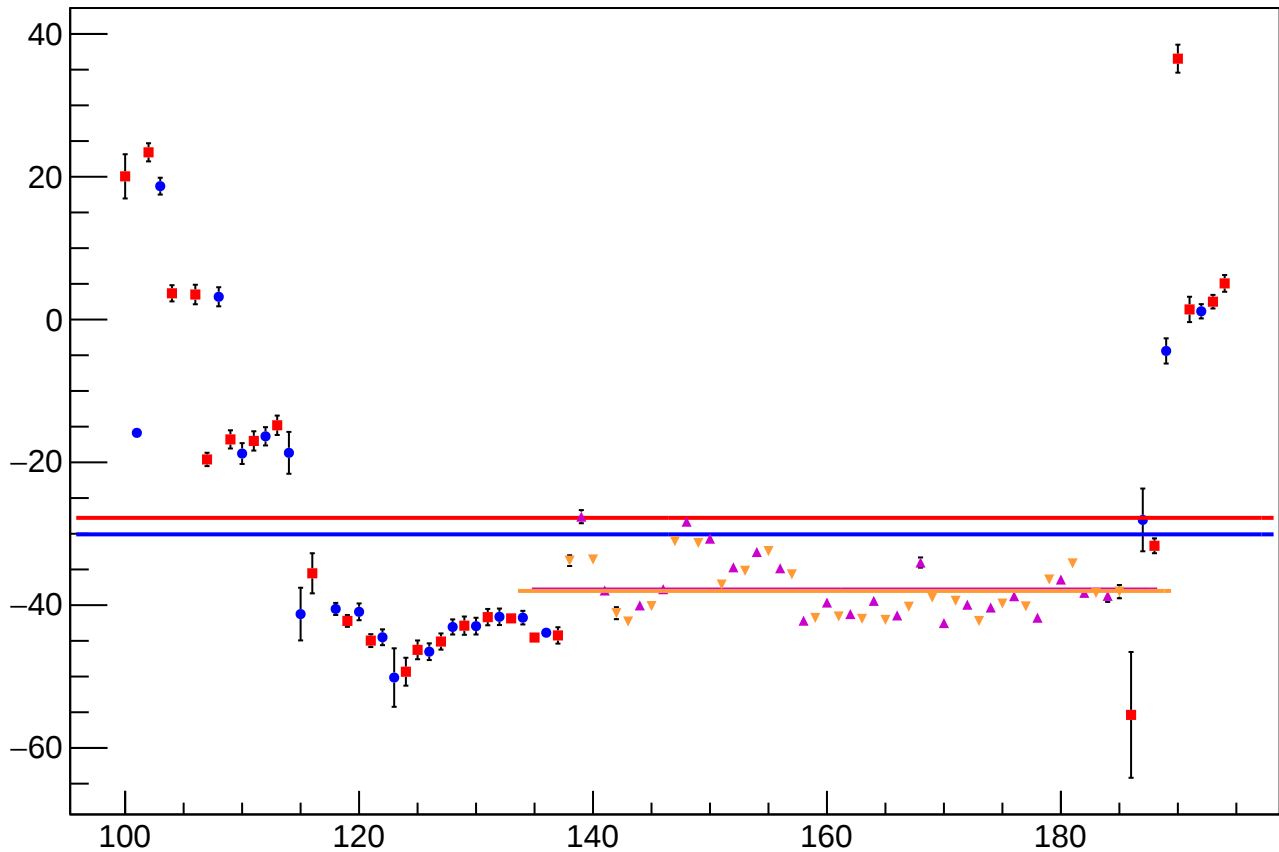
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.859 ± 0.328 $\chi^2/\text{NDF}: 212.1/19$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -3.496 ± 0.236 $\chi^2/\text{NDF}: 562.9/24$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -2.594 ± 0.192 $\chi^2/\text{NDF}: 817.6/44$
 In: -9.070 ± 0.125 $\chi^2/\text{NDF}: 1948.4/42$
 Out: -8.539 ± 0.116 $\chi^2/\text{NDF}: 2217.2/49$
 All: -8.785 ± 0.085 $\chi^2/\text{NDF}: 4175.3/92$

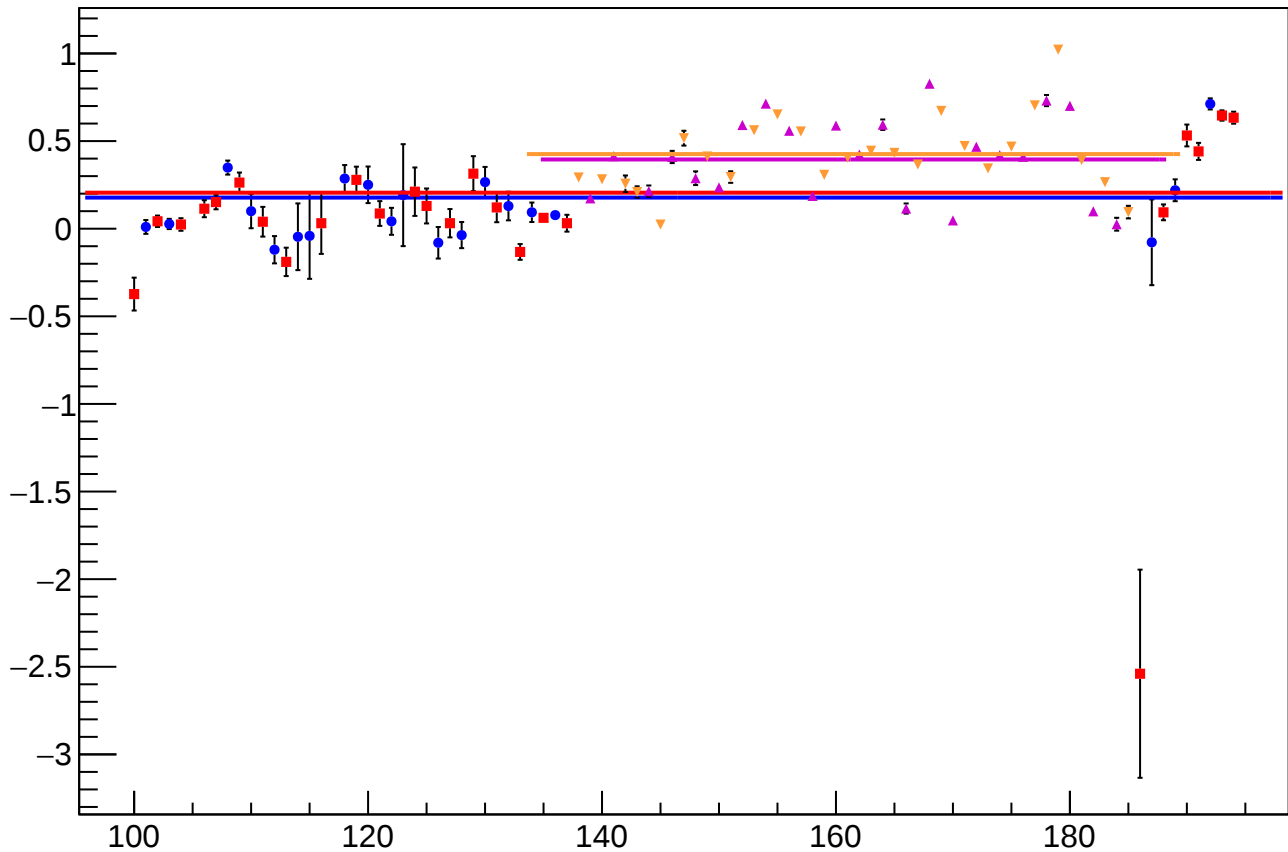
reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.086 ± 0.245 $\chi^2/\text{NDF}: 5927.1/19$
 Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$
 Right Out: -27.772 ± 0.223 $\chi^2/\text{NDF}: 9580.2/24$
 Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$
 Right: -28.819 ± 0.165 $\chi^2/\text{NDF}: 15556.0/44$
 In: -36.272 ± 0.109 $\chi^2/\text{NDF}: 7760.7/42$
 Out: -35.747 ± 0.105 $\chi^2/\text{NDF}: 12166.3/49$
 All: -35.998 ± 0.076 $\chi^2/\text{NDF}: 19939.0/92$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.178 ± 0.012 χ^2/NDF : 412.9/19

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.206 ± 0.010 χ^2/NDF : 692.1/24

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

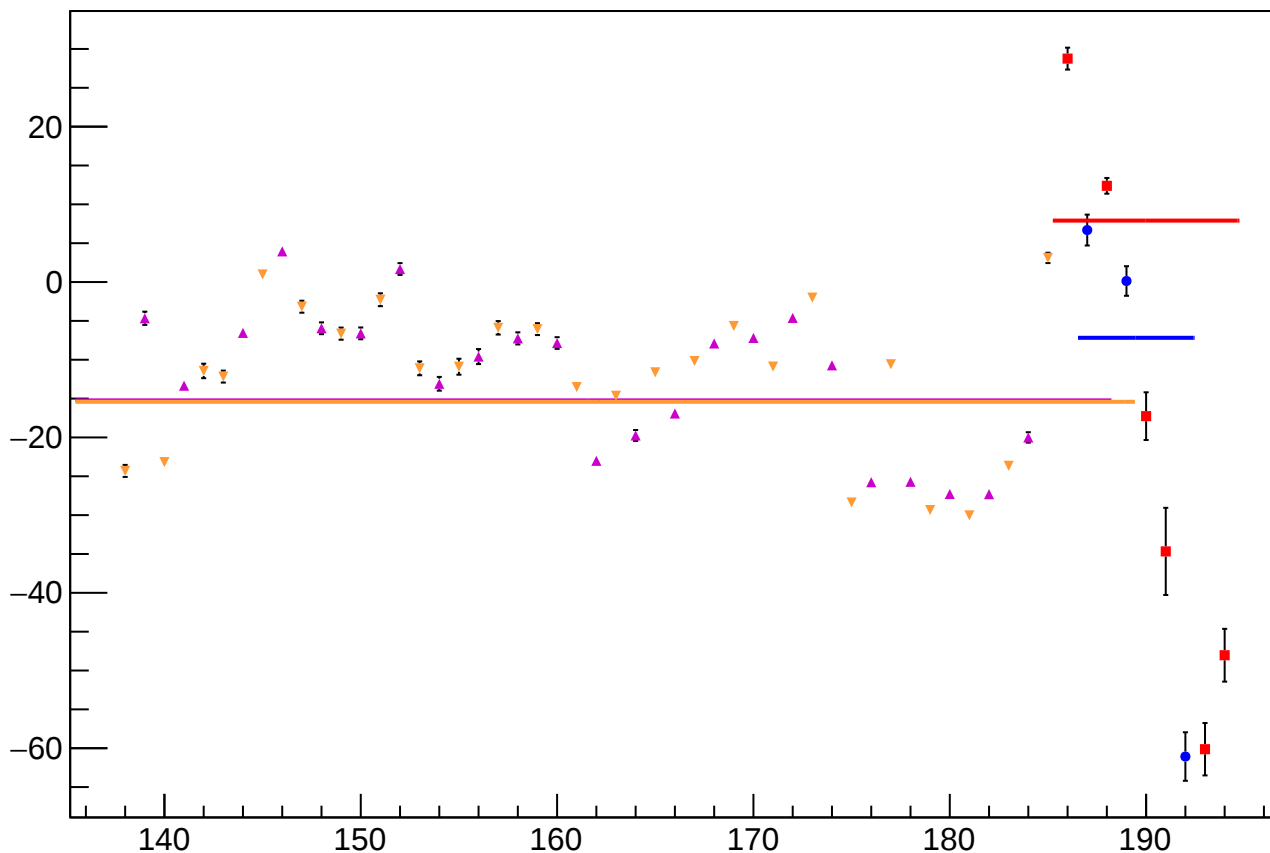
Right: 0.194 ± 0.008 χ^2/NDF : 1108.3/44

In: 0.356 ± 0.005 χ^2/NDF : 2499.3/42

Out: 0.377 ± 0.005 χ^2/NDF : 2370.0/49

All: 0.367 ± 0.003 χ^2/NDF : 4878.4/92

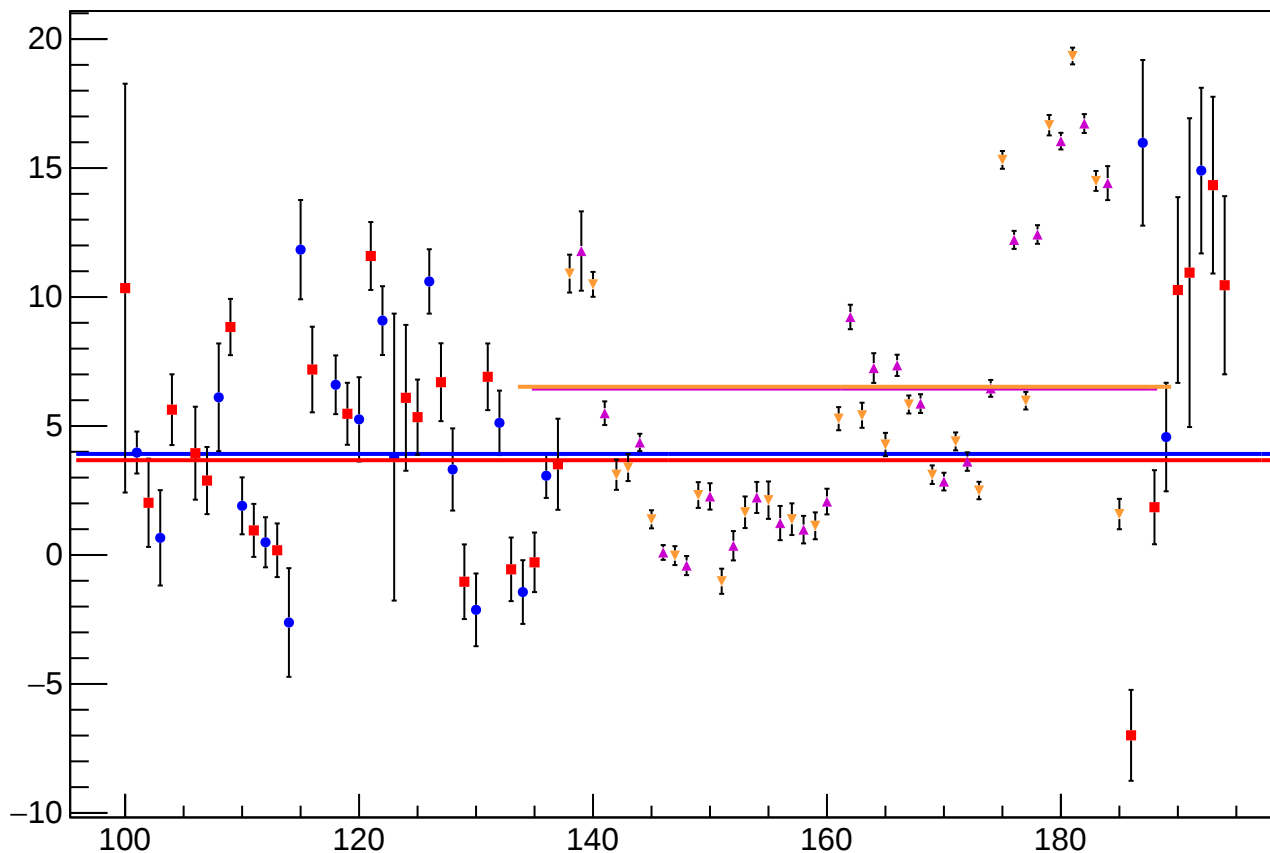
reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.176 ± 1.258 χ^2/NDF : 361.3/2
 Left Out: -15.413 ± 0.105 χ^2/NDF : 10509.1/24
 Right Out: 7.908 ± 0.747 χ^2/NDF : 1041.5/5
 Left In: -15.229 ± 0.107 χ^2/NDF : 8657.3/22

Left: -15.322 ± 0.075 χ^2/NDF : 19167.9/47
 Right: 3.975 ± 0.643 χ^2/NDF : 1509.1/8
 In: -15.172 ± 0.106 χ^2/NDF : 9059.3/25
 Out: -14.959 ± 0.104 χ^2/NDF : 12505.6/30
 All: -15.063 ± 0.074 χ^2/NDF : 21566.9/56

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.918 ± 0.305 χ^2/NDF : 161.6/19

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.674 ± 0.301 χ^2/NDF : 190.7/24

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

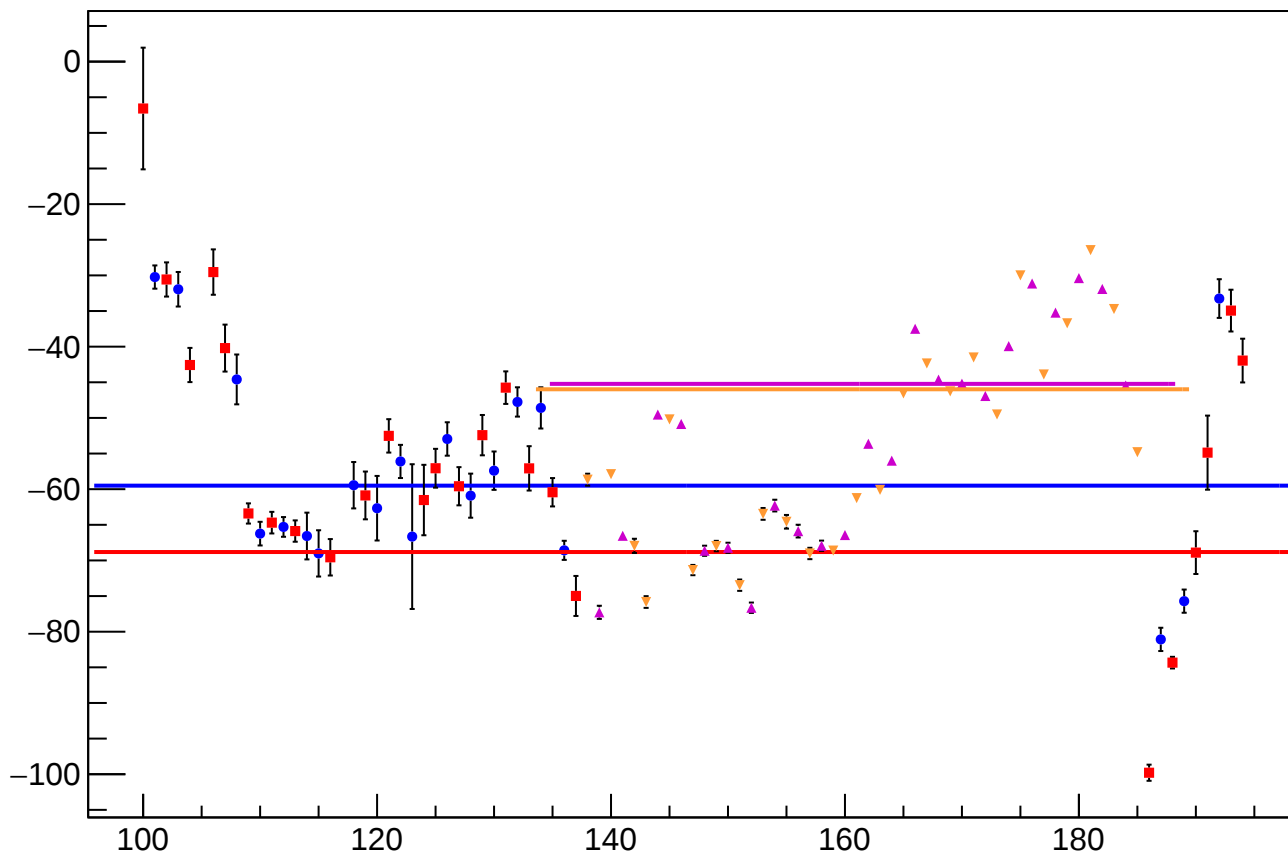
Right: 3.794 ± 0.214 χ^2/NDF : 352.7/44

In: 6.265 ± 0.083 χ^2/NDF : 4173.6/42

Out: 6.309 ± 0.082 χ^2/NDF : 5258.9/49

All: 6.287 ± 0.058 χ^2/NDF : 9432.6/92

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.505 ± 0.484 χ^2/NDF : 988.3/19

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -68.819 ± 0.404 χ^2/NDF : 2266.1/24

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

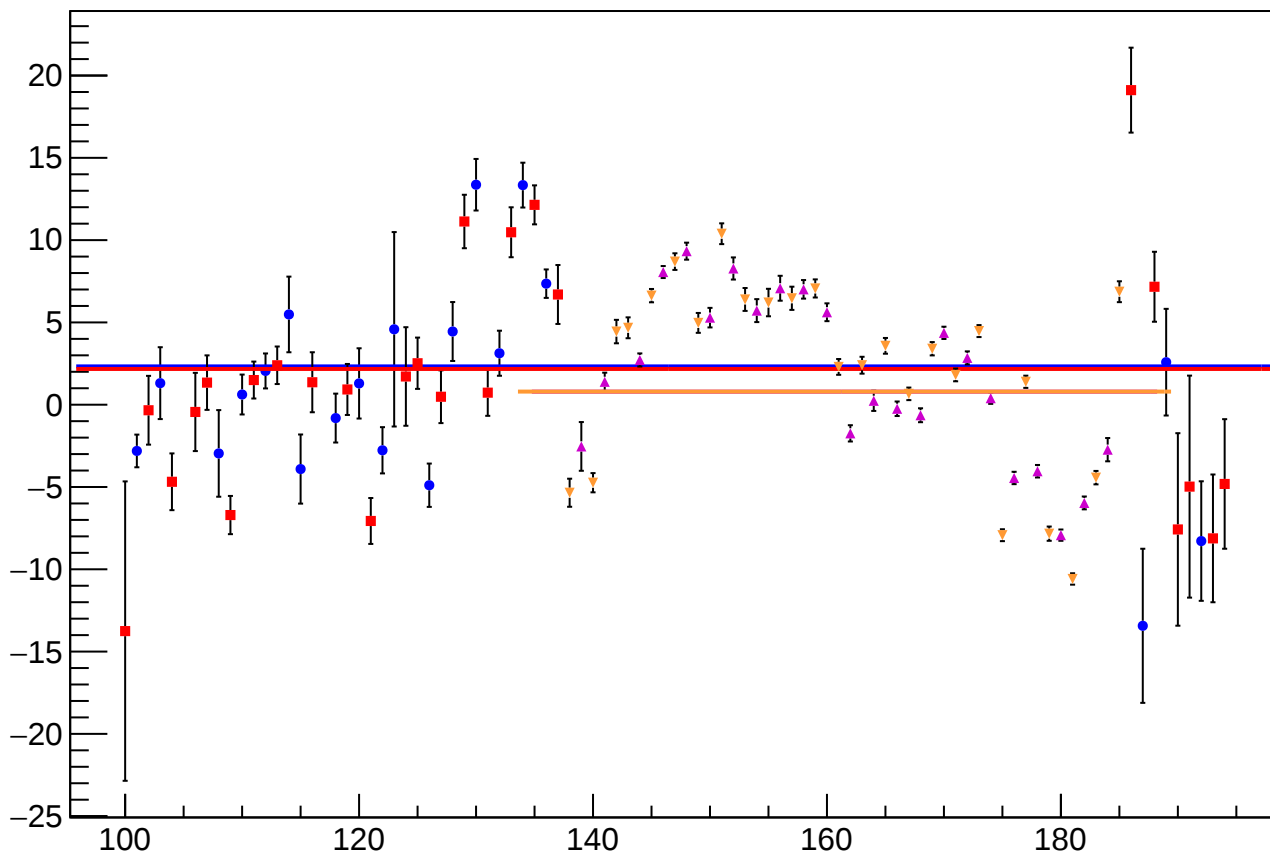
Right: -64.994 ± 0.310 χ^2/NDF : 3472.4/44

In: -45.889 ± 0.105 χ^2/NDF : 17417.8/42

Out: -47.458 ± 0.103 χ^2/NDF : 22611.2/49

All: -46.688 ± 0.073 χ^2/NDF : 40143.4/92

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.328 $\pm$ 0.343 χ^2 /NDF: 262.4/19

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF: 3760.0/24

Right Out: 2.173 $\pm$ 0.344 χ^2 /NDF: 327.8/24

Left In: 0.792 $\pm$ 0.097 χ^2 /NDF: 2692.5/22

Left: 0.795 $\pm$ 0.068 χ^2 /NDF: 6452.5/47

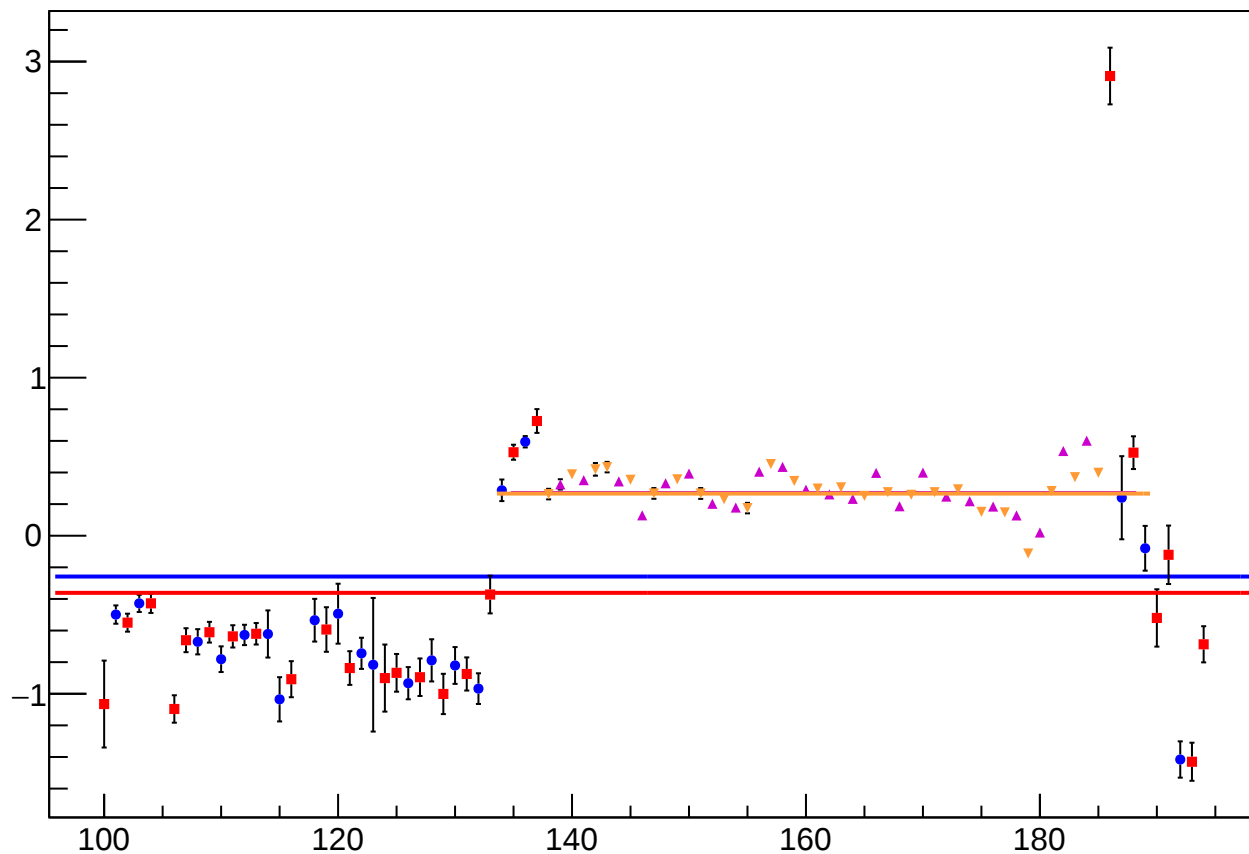
Right: 2.250 $\pm$ 0.243 χ^2 /NDF: 590.3/44

In: 0.905 $\pm$ 0.093 χ^2 /NDF: 2973.4/42

Out: 0.896 $\pm$ 0.092 χ^2 /NDF: 4102.7/49

All: 0.900 $\pm$ 0.065 χ^2 /NDF: 7076.1/92

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.258 ± 0.018 χ^2/NDF : 1065.6/19

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.361 ± 0.018 χ^2/NDF : 1342.2/24

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

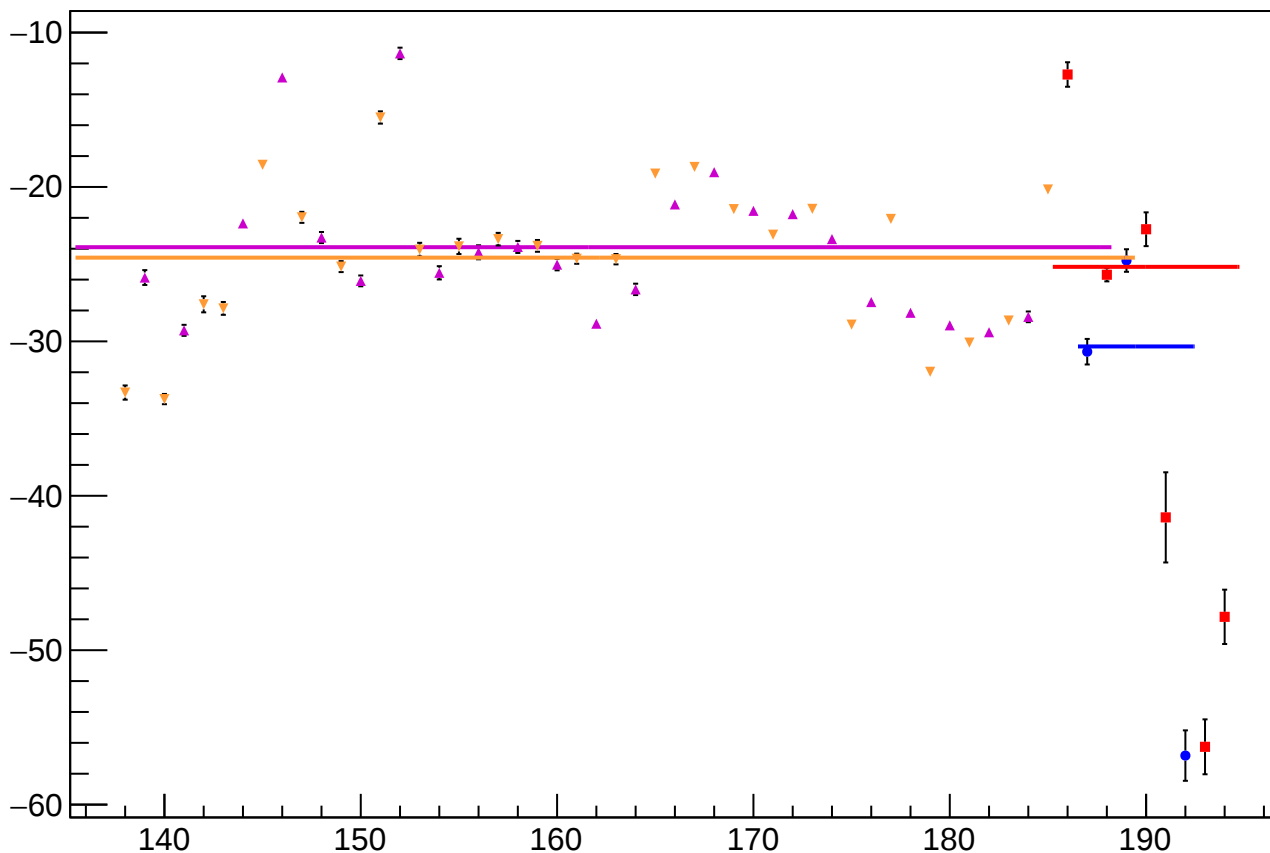
Right: -0.311 ± 0.013 χ^2/NDF : 2423.8/44

In: 0.242 ± 0.004 χ^2/NDF : 2810.4/42

Out: 0.232 ± 0.004 χ^2/NDF : 3195.9/49

All: 0.237 ± 0.003 χ^2/NDF : 6009.0/92

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.329 ± 0.519 $\chi^2/\text{NDF}: 321.5/2$

Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$

Right Out: -25.173 ± 0.342 $\chi^2/\text{NDF}: 755.2/5$

Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$

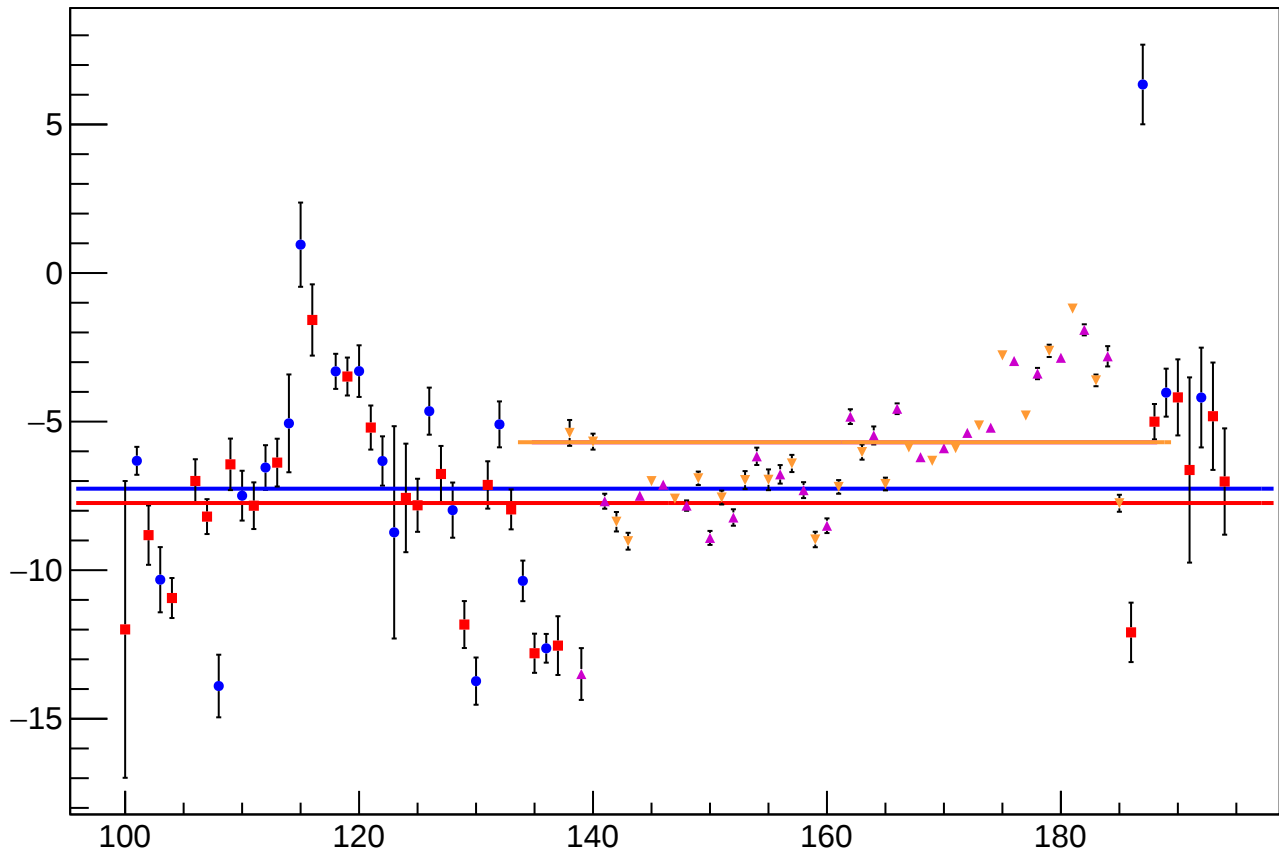
Right: -26.731 ± 0.285 $\chi^2/\text{NDF}: 1145.5/8$

In: -23.963 ± 0.051 $\chi^2/\text{NDF}: 9628.2/25$

Out: -24.590 ± 0.050 $\chi^2/\text{NDF}: 9348.6/30$

All: -24.279 ± 0.036 $\chi^2/\text{NDF}: 19053.6/56$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.257 ± 0.180 $\chi^2/\text{NDF}: 507.0/19$

Left Out: -5.694 ± 0.041 $\chi^2/\text{NDF}: 2258.3/24$

Right Out: -7.740 ± 0.171 $\chi^2/\text{NDF}: 275.5/24$

Left In: -5.696 ± 0.041 $\chi^2/\text{NDF}: 2309.8/22$

Left: -5.695 ± 0.029 $\chi^2/\text{NDF}: 4568.1/47$

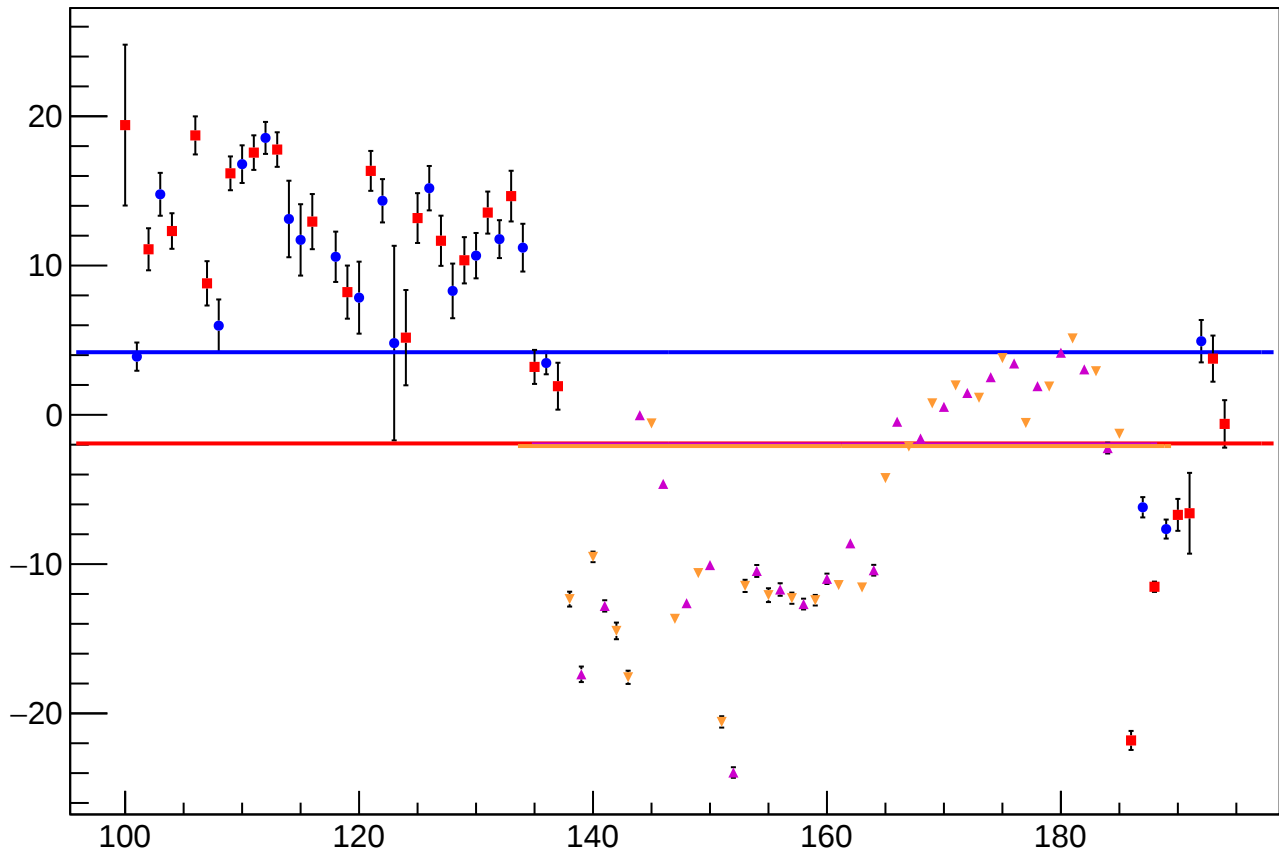
Right: -7.510 ± 0.124 $\chi^2/\text{NDF}: 786.2/44$

In: -5.773 ± 0.040 $\chi^2/\text{NDF}: 2888.5/42$

Out: -5.805 ± 0.040 $\chi^2/\text{NDF}: 2668.5/49$

All: -5.789 ± 0.028 $\chi^2/\text{NDF}: 5557.3/92$

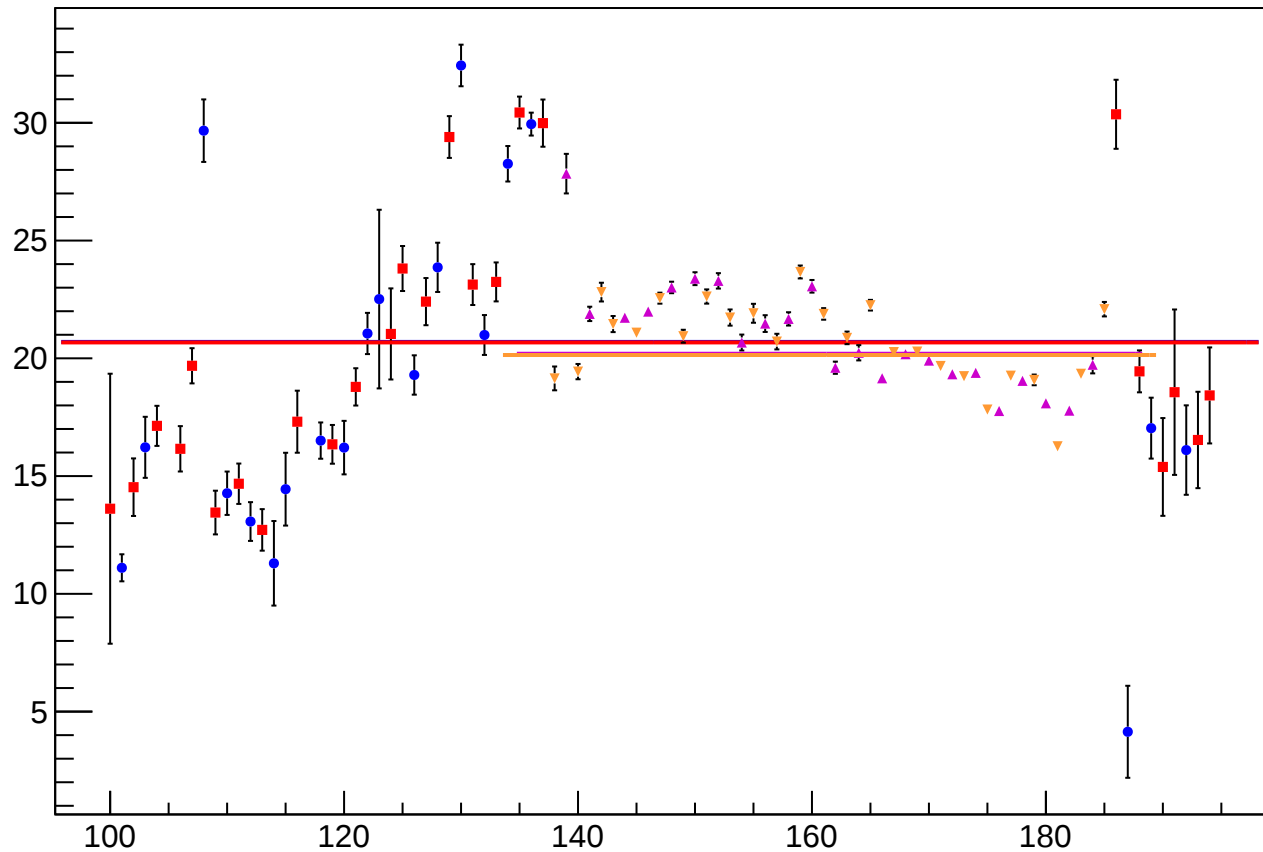
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.194 ± 0.269 $\chi^2/\text{NDF}: 1135.6/19$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.917 ± 0.215 $\chi^2/\text{NDF}: 3907.4/24$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: 0.468 ± 0.168 $\chi^2/\text{NDF}: 5358.5/44$
 In: -1.764 ± 0.050 $\chi^2/\text{NDF}: 17027.6/42$
 Out: -2.083 ± 0.050 $\chi^2/\text{NDF}: 20213.3/49$
 All: -1.924 ± 0.035 $\chi^2/\text{NDF}: 37261.1/92$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.697 $\pm$ 0.206 χ^2 /NDF: 1297.8/19

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.675 $\pm$ 0.202 χ^2 /NDF: 779.4/24

Left In: 20.194 $\pm$ 0.046 χ^2 /NDF:1447.4/22

Left: 20.167 $\pm$ 0.032 χ^2 /NDF: 2867.2/47

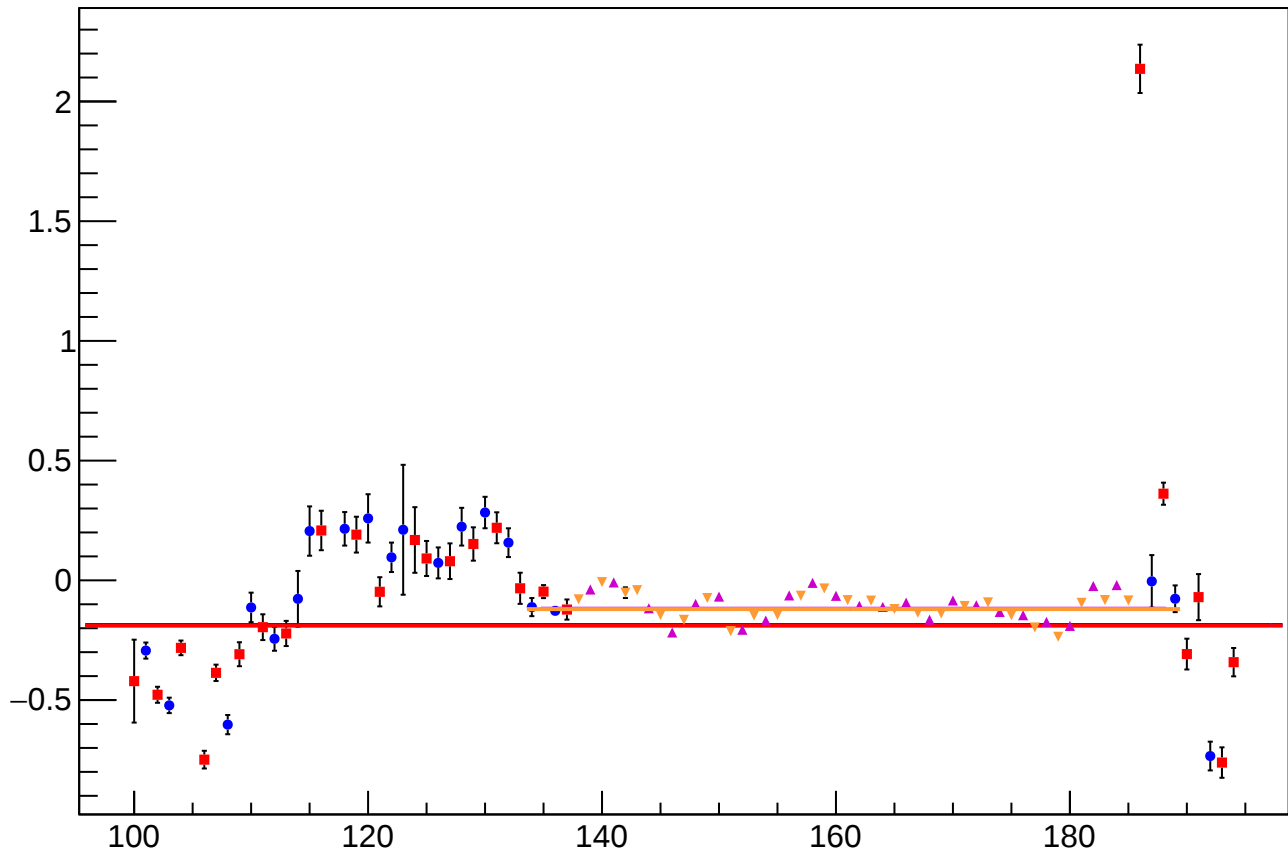
Right: 20.686 $\pm$ 0.144 χ^2 /NDF: 2077.2/44

In: 20.218 $\pm$ 0.045 χ^2 /NDF:2750.8/42

Out: 20.167 $\pm$ 0.045 χ^2 /NDF:2205.2/49

All: 20.192 $\pm$ 0.032 χ^2 /NDF: 4956.6/92

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.187 ± 0.011 $\chi^2/\text{NDF}: 549.1/19$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.189 ± 0.010 $\chi^2/\text{NDF}: 1308.5/24$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

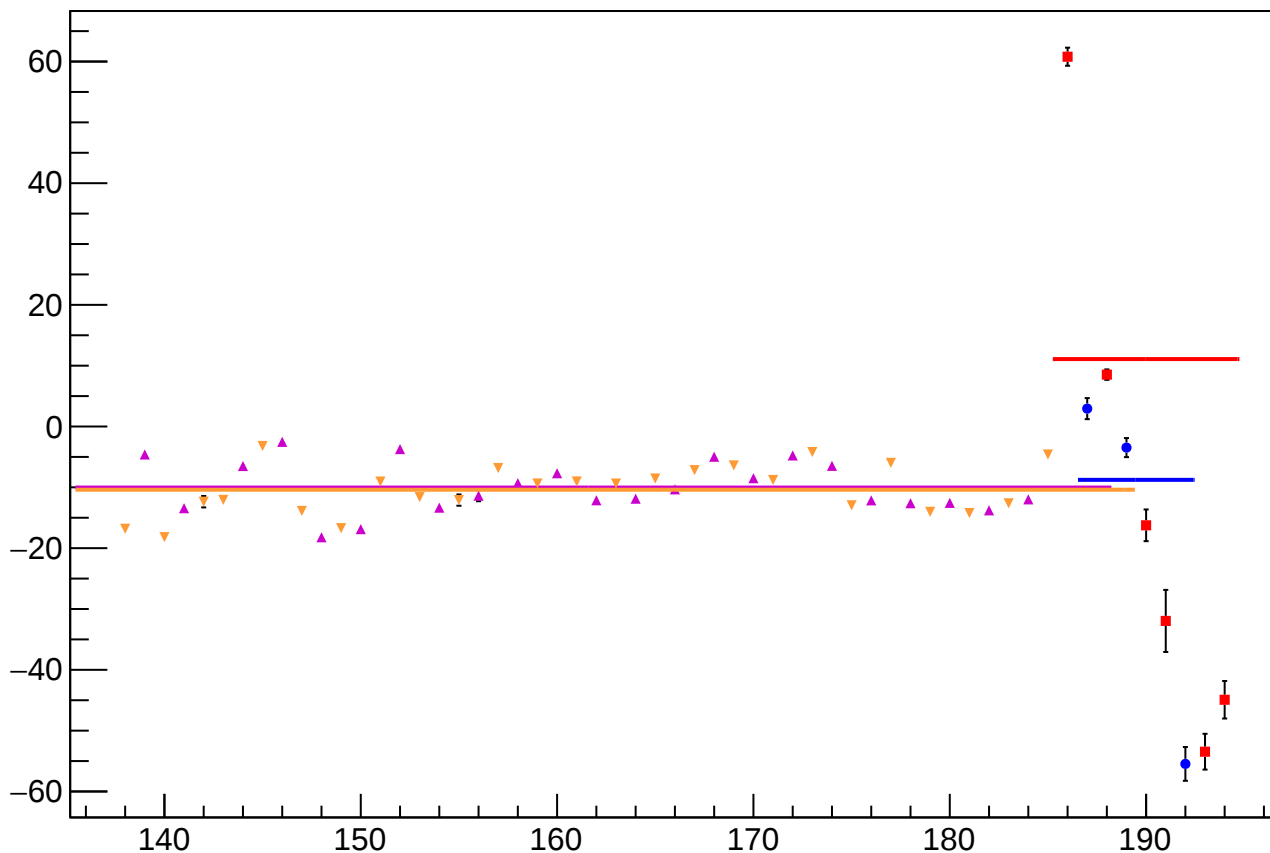
Right: -0.188 ± 0.007 $\chi^2/\text{NDF}: 1857.6/44$

In: -0.121 ± 0.002 $\chi^2/\text{NDF}: 1309.2/42$

Out: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1883.5/49$

All: -0.122 ± 0.001 $\chi^2/\text{NDF}: 3193.1/92$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.769 ± 1.072 $\chi^2/\text{NDF}: 340.1/2$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: 11.088 ± 0.672 $\chi^2/\text{NDF}: 2119.3/5$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

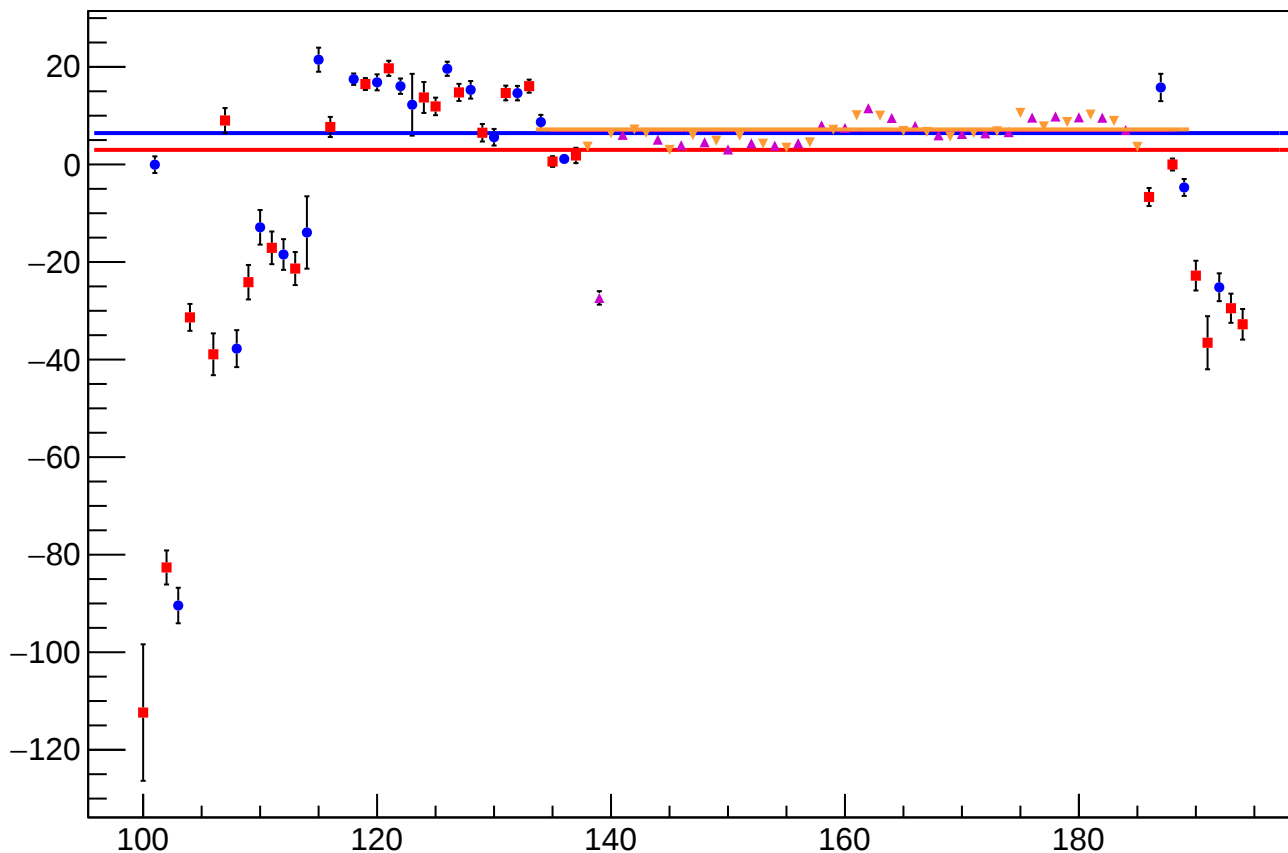
Right: 5.487 ± 0.569 $\chi^2/\text{NDF}: 2705.6/8$

In: -10.027 ± 0.089 $\chi^2/\text{NDF}: 2100.1/25$

Out: -10.030 ± 0.087 $\chi^2/\text{NDF}: 5235.1/30$

All: -10.029 ± 0.062 $\chi^2/\text{NDF}: 7335.2/56$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.430 ± 0.389 χ^2/NDF : 1522.3/19

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: 2.990 ± 0.389 χ^2/NDF : 1967.5/24

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

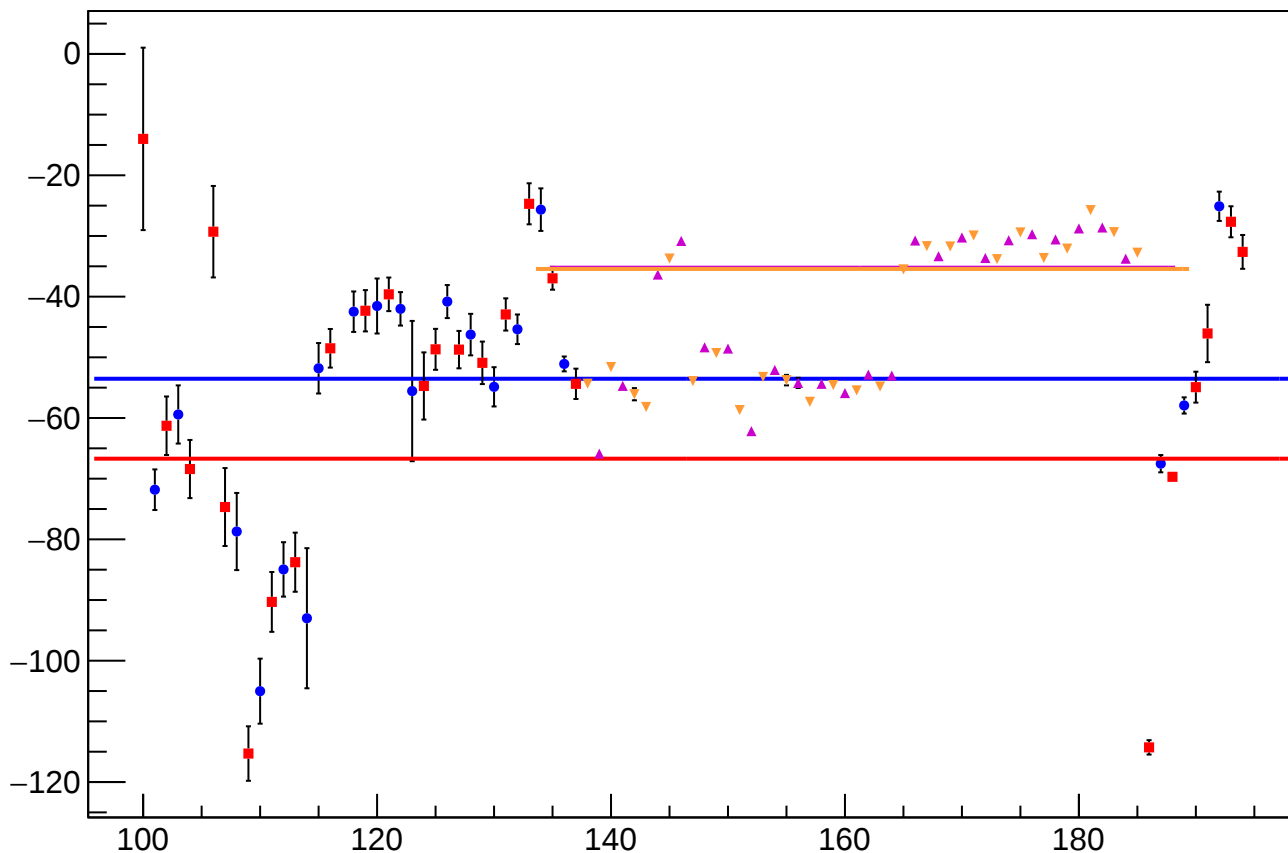
Right: 4.711 ± 0.275 χ^2/NDF : 3528.9/44

In: 7.031 ± 0.073 χ^2/NDF : 3060.6/42

Out: 7.040 ± 0.072 χ^2/NDF : 2997.1/49

All: 7.035 ± 0.051 χ^2/NDF : 6057.7/92

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.530 ± 0.573 χ^2/NDF : 586.9/19

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -66.705 ± 0.455 χ^2/NDF : 3015.6/24

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

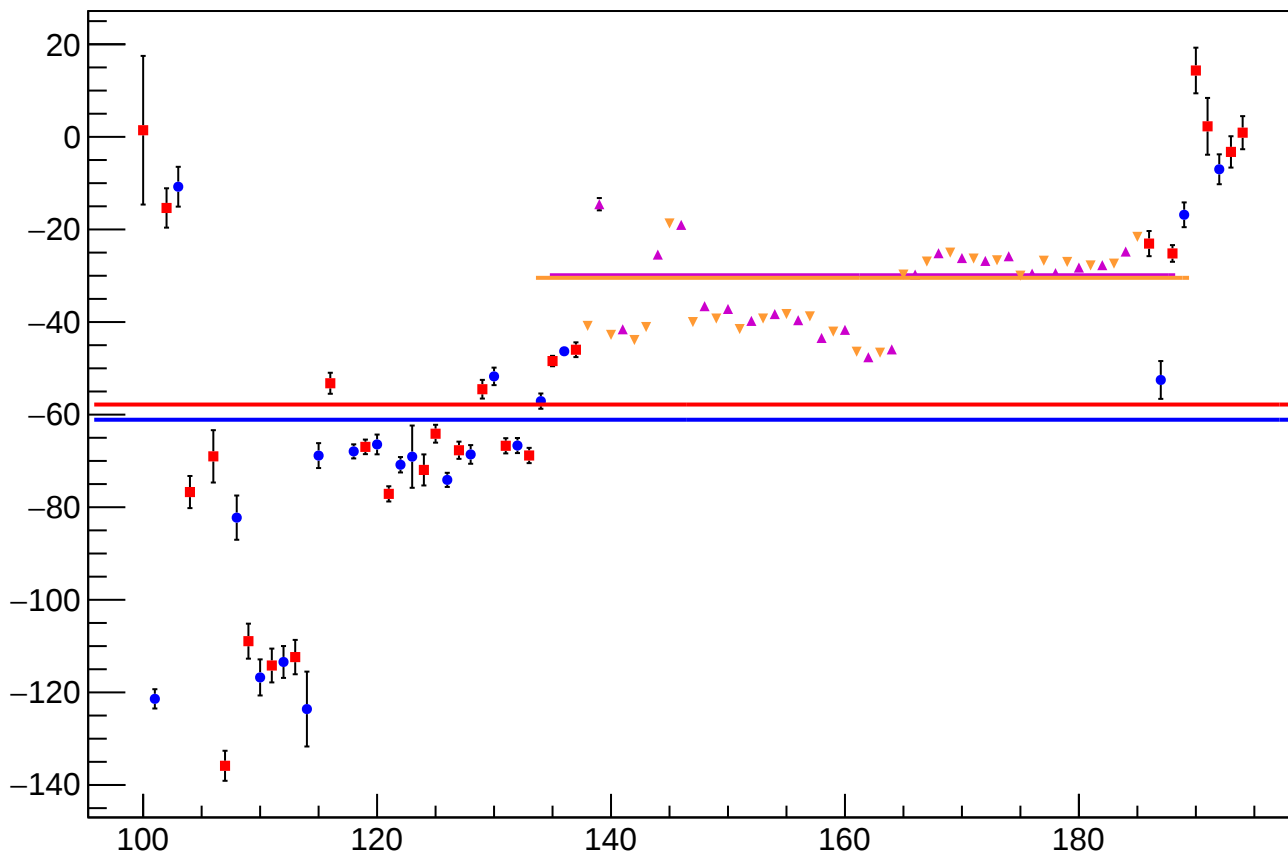
Right: -61.618 ± 0.356 χ^2/NDF : 3926.6/44

In: -35.670 ± 0.089 χ^2/NDF : 13184.2/42

Out: -36.588 ± 0.087 χ^2/NDF : 20353.5/49

All: -36.138 ± 0.062 χ^2/NDF : 33592.0/92

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -61.102 ± 0.436 $\chi^2/\text{NDF}: 2593.8/19$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -57.819 ± 0.450 $\chi^2/\text{NDF}: 3128.5/24$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

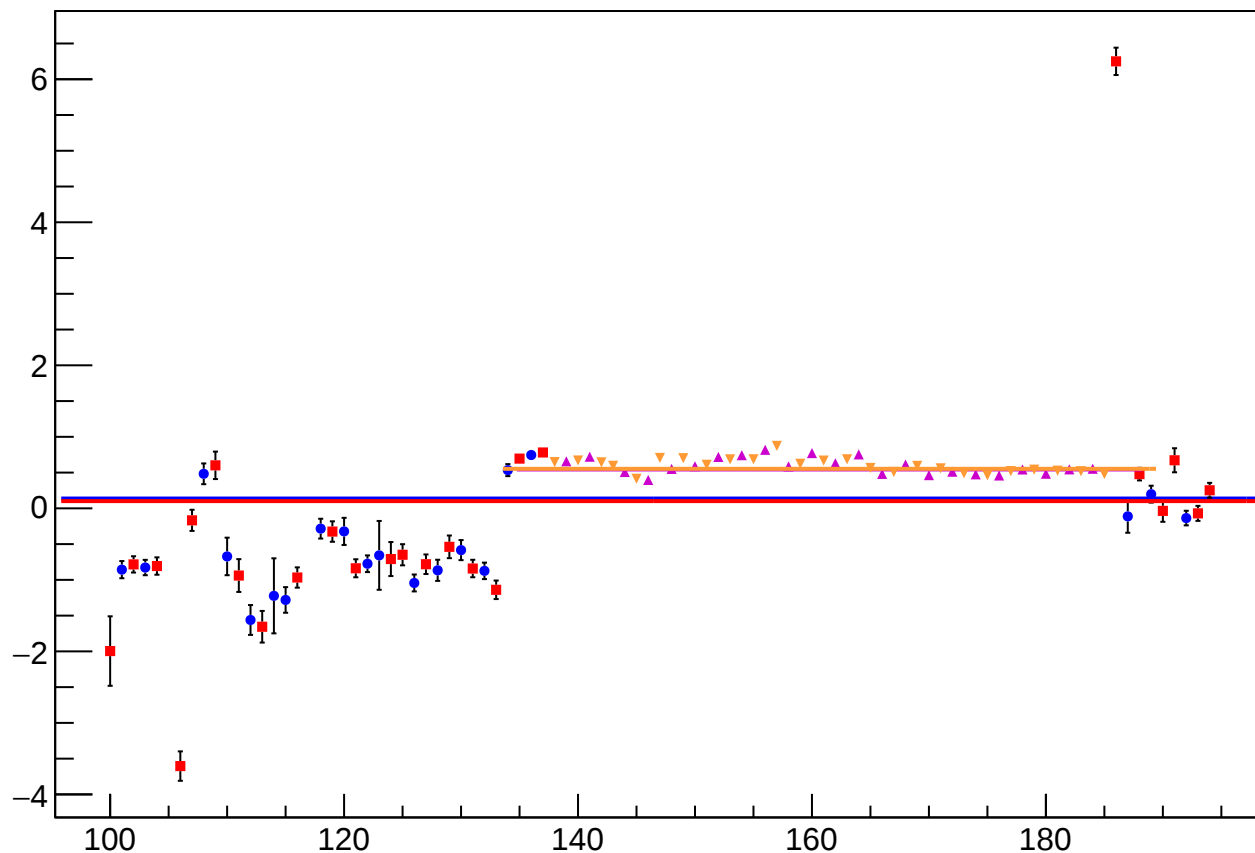
Right: -59.509 ± 0.313 $\chi^2/\text{NDF}: 5749.8/44$

In: -30.971 ± 0.081 $\chi^2/\text{NDF}: 14646.6/42$

Out: -31.319 ± 0.080 $\chi^2/\text{NDF}: 14885.2/49$

All: -31.147 ± 0.057 $\chi^2/\text{NDF}: 29541.2/92$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.137 ± 0.023 χ^2/NDF : 996.4/19

Left Out: 0.553 ± 0.004 χ^2/NDF : 542.1/24

Right Out: 0.101 ± 0.023 χ^2/NDF : 2266.8/24

Left In: 0.544 ± 0.004 χ^2/NDF : 655.9/22

Left: 0.548 ± 0.003 χ^2/NDF : 1200.9/47

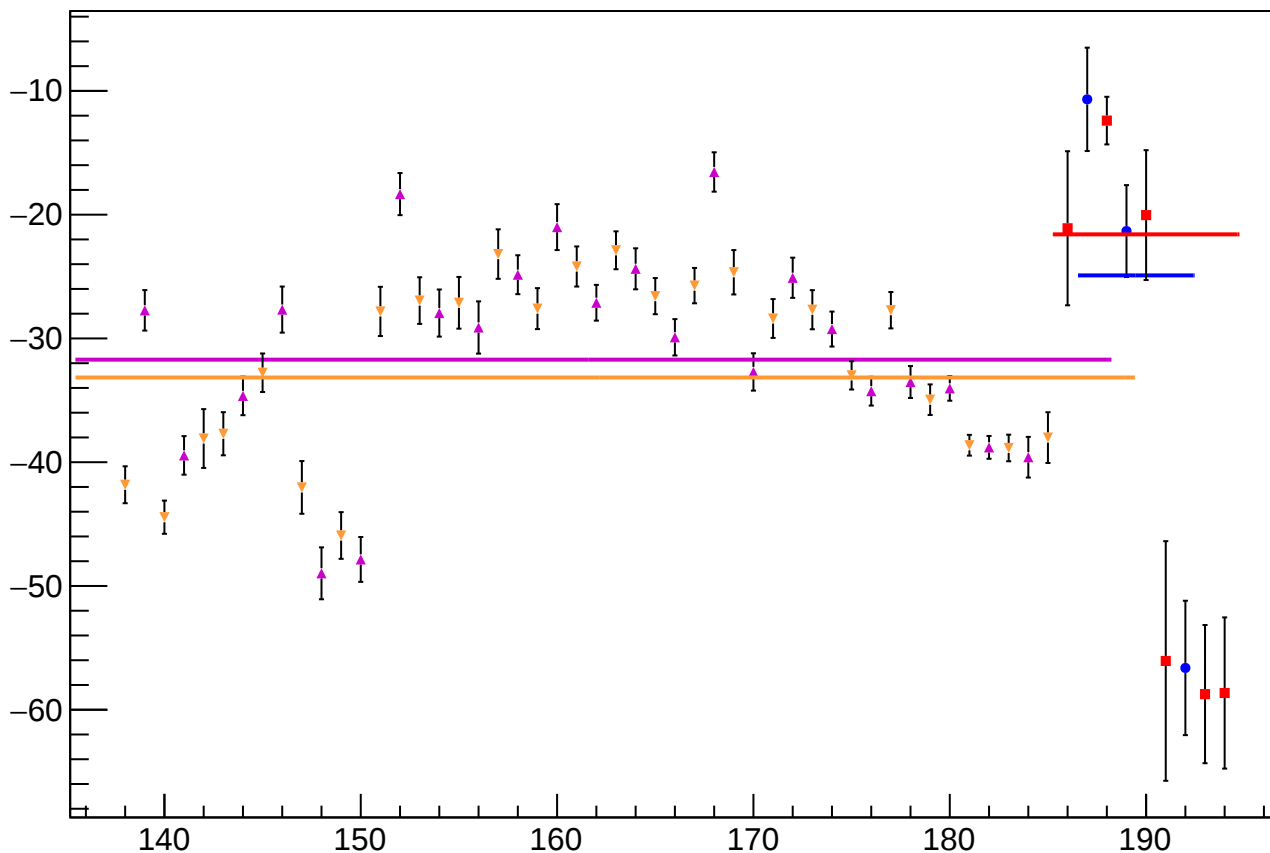
Right: 0.119 ± 0.016 χ^2/NDF : 3264.4/44

In: 0.533 ± 0.004 χ^2/NDF : 1960.6/42

Out: 0.542 ± 0.004 χ^2/NDF : 3178.9/49

All: 0.537 ± 0.003 χ^2/NDF : 5142.2/92

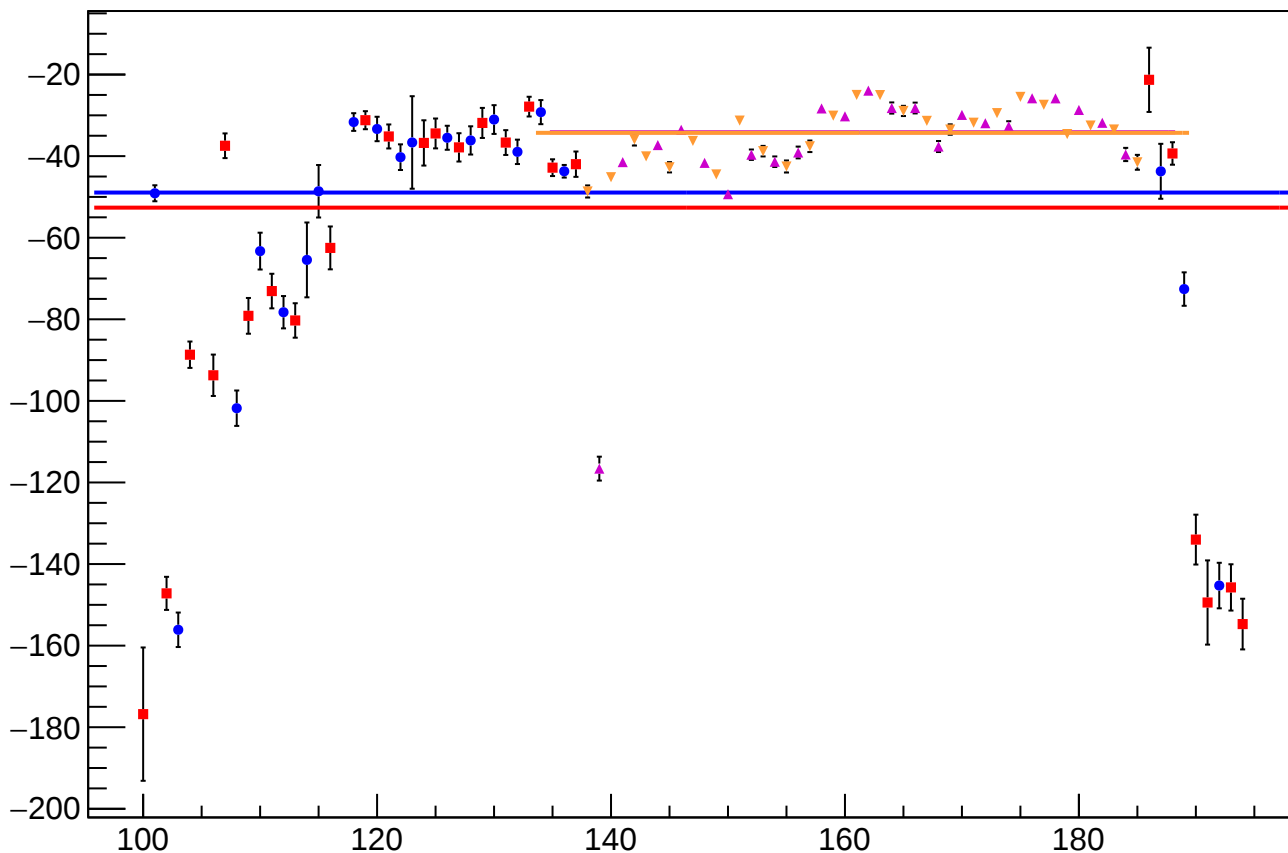
reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.906 ± 2.470 $\chi^2/\text{NDF}: 46.7/2$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -21.590 ± 1.578 $\chi^2/\text{NDF}: 116.6/5$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -22.551 ± 1.330 $\chi^2/\text{NDF}: 164.6/8$
 In: -31.610 ± 0.307 $\chi^2/\text{NDF}: 596.4/25$
 Out: -32.753 ± 0.295 $\chi^2/\text{NDF}: 668.6/30$
 All: -32.203 ± 0.213 $\chi^2/\text{NDF}: 1272.2/56$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -48.928 ± 0.709 χ^2/NDF : 1418.2/19

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -52.626 ± 0.716 χ^2/NDF : 2144.9/24

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

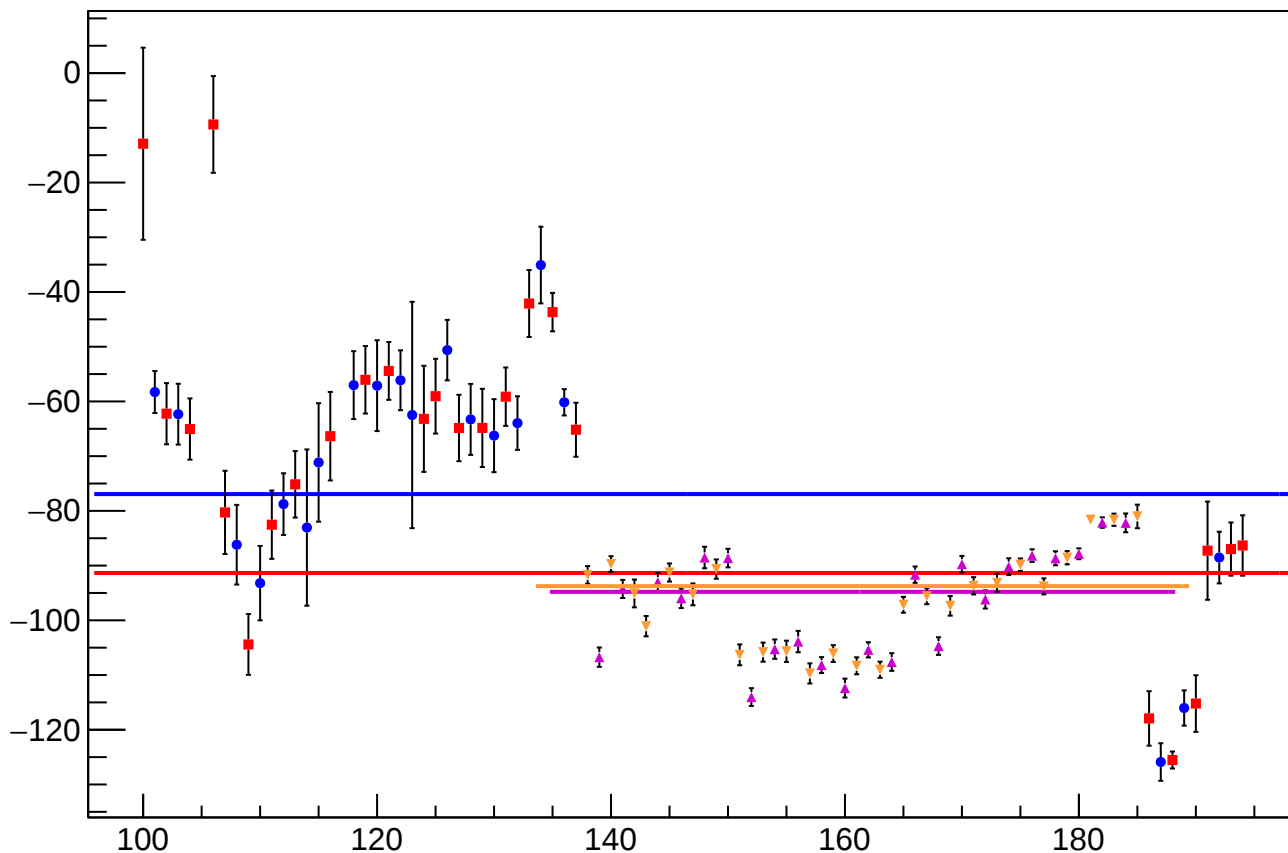
Right: -50.761 ± 0.504 χ^2/NDF : 3576.6/44

In: -35.788 ± 0.236 χ^2/NDF : 3256.9/42

Out: -36.161 ± 0.229 χ^2/NDF : 3429.7/49

All: -35.981 ± 0.164 χ^2/NDF : 6687.9/92

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.933 ± 1.116 $\chi^2/\text{NDF}: 547.2/19$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -91.348 ± 0.952 $\chi^2/\text{NDF}: 1178.1/24$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

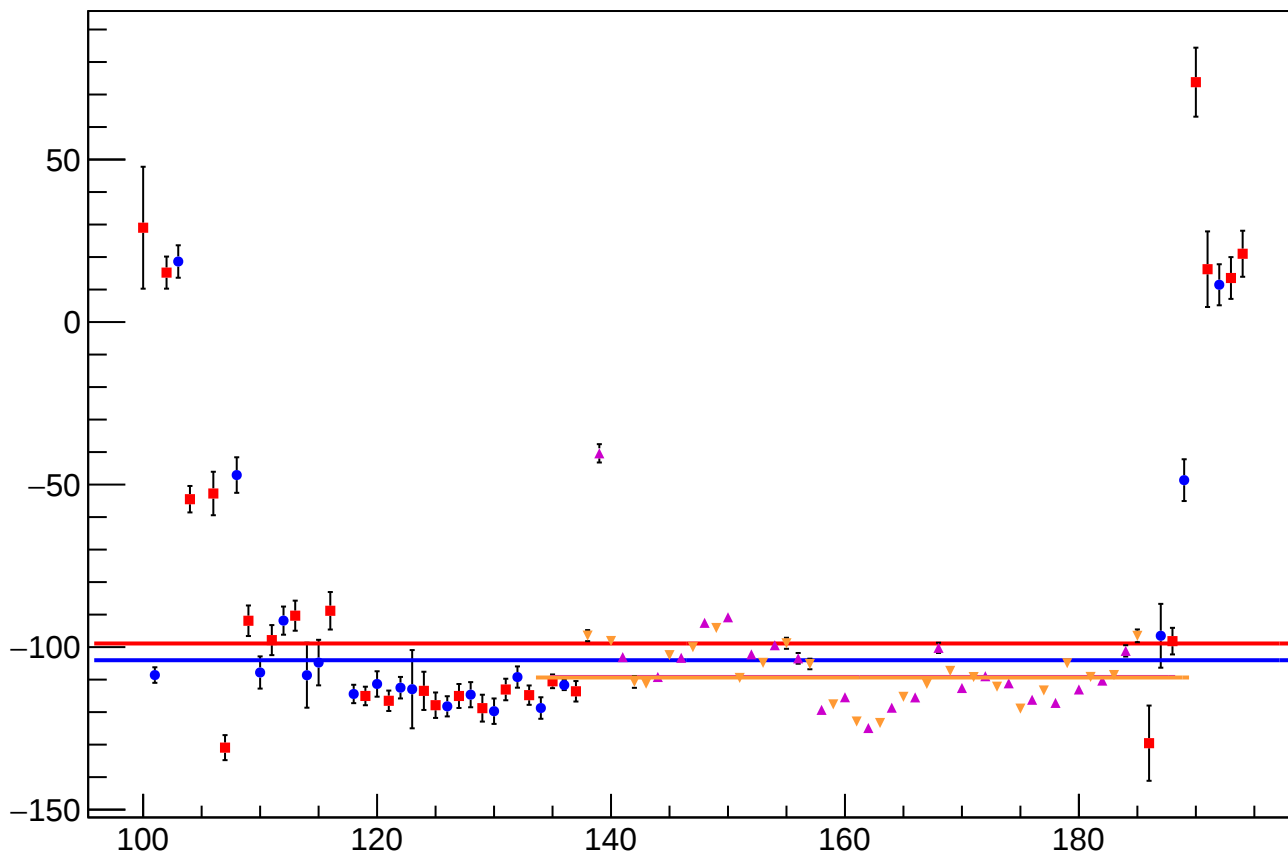
Right: -85.281 ± 0.724 $\chi^2/\text{NDF}: 1821.8/44$

In: -93.529 ± 0.297 $\chi^2/\text{NDF}: 1759.7/42$

Out: -93.534 ± 0.288 $\chi^2/\text{NDF}: 2067.0/49$

All: -93.532 ± 0.207 $\chi^2/\text{NDF}: 3826.7/92$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -104.035 ± 0.802 $\chi^2/\text{NDF}: 1248.9/19$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -98.885 ± 0.824 $\chi^2/\text{NDF}: 2022.5/24$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

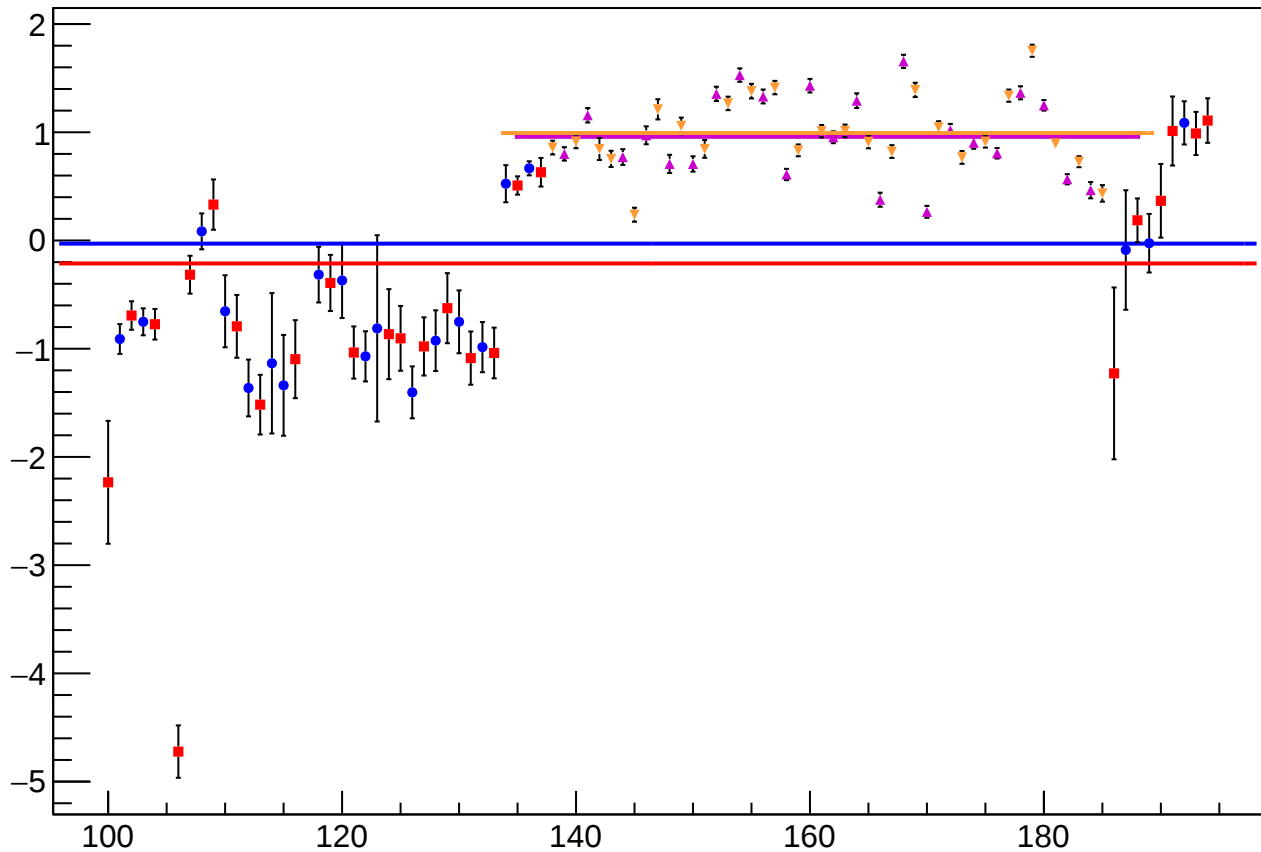
Right: -101.530 ± 0.575 $\chi^2/\text{NDF}: 3291.5/44$

In: -108.625 ± 0.264 $\chi^2/\text{NDF}: 2786.8/42$

Out: -108.329 ± 0.258 $\chi^2/\text{NDF}: 2994.8/49$

All: -108.473 ± 0.184 $\chi^2/\text{NDF}: 5782.2/92$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.029 $\pm$ 0.041 χ^2/NDF : 361.2/19

Left Out: 0.993 $\pm$ 0.012 χ^2/NDF : 638.6/24

Right Out: -0.212 $\pm$ 0.041 χ^2/NDF : 695.2/24

Left In: 0.958 $\pm$ 0.013 χ^2/NDF : 894.5/22

Left: 0.976 $\pm$ 0.009 χ^2/NDF : 1537.0/47

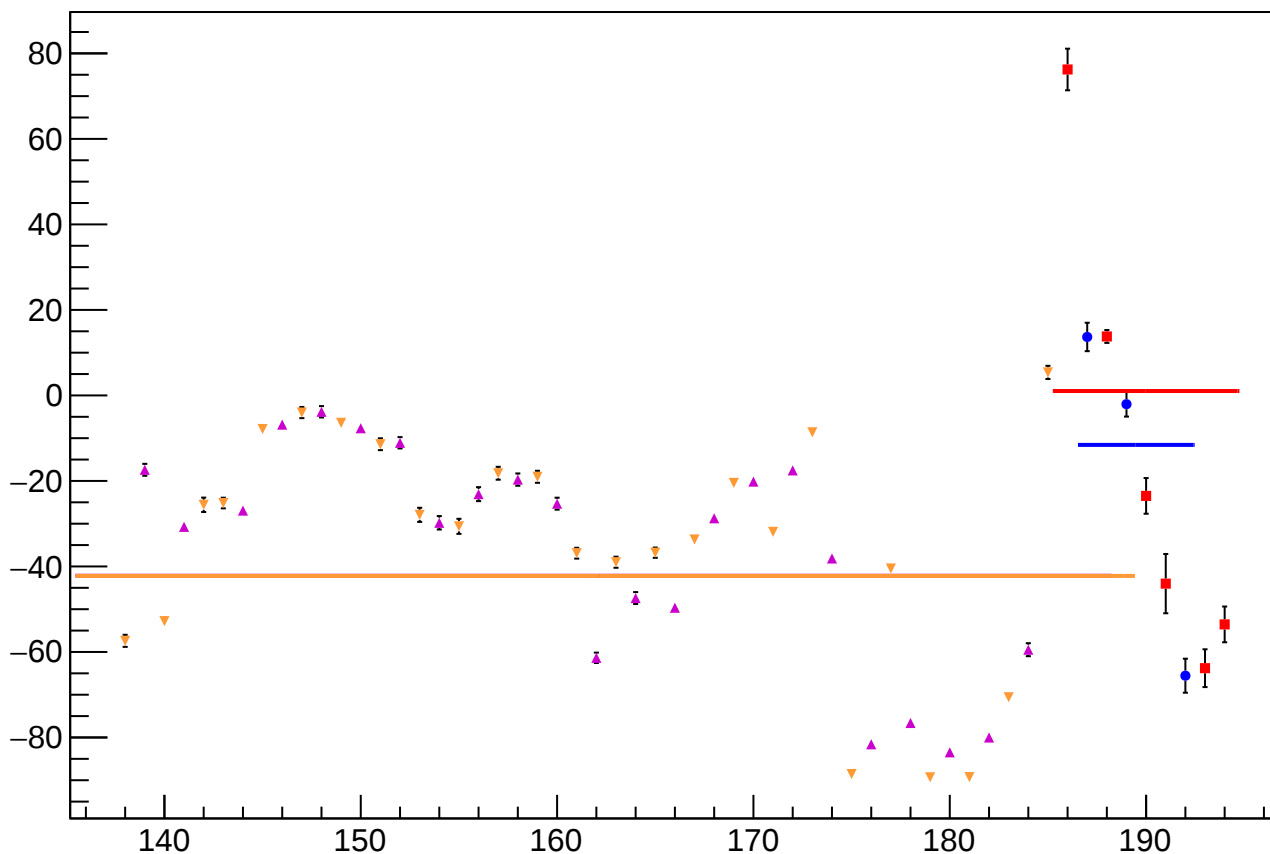
Right: -0.121 $\pm$ 0.029 χ^2/NDF : 1066.6/44

In: 0.871 $\pm$ 0.012 χ^2/NDF : 1789.7/42

Out: 0.890 $\pm$ 0.012 χ^2/NDF : 2142.4/49

All: 0.881 $\pm$ 0.008 χ^2/NDF : 3933.3/92

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.569 ± 1.917 χ^2/NDF : 252.6/2

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: 1.032 ± 1.223 χ^2/NDF : 772.8/5

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

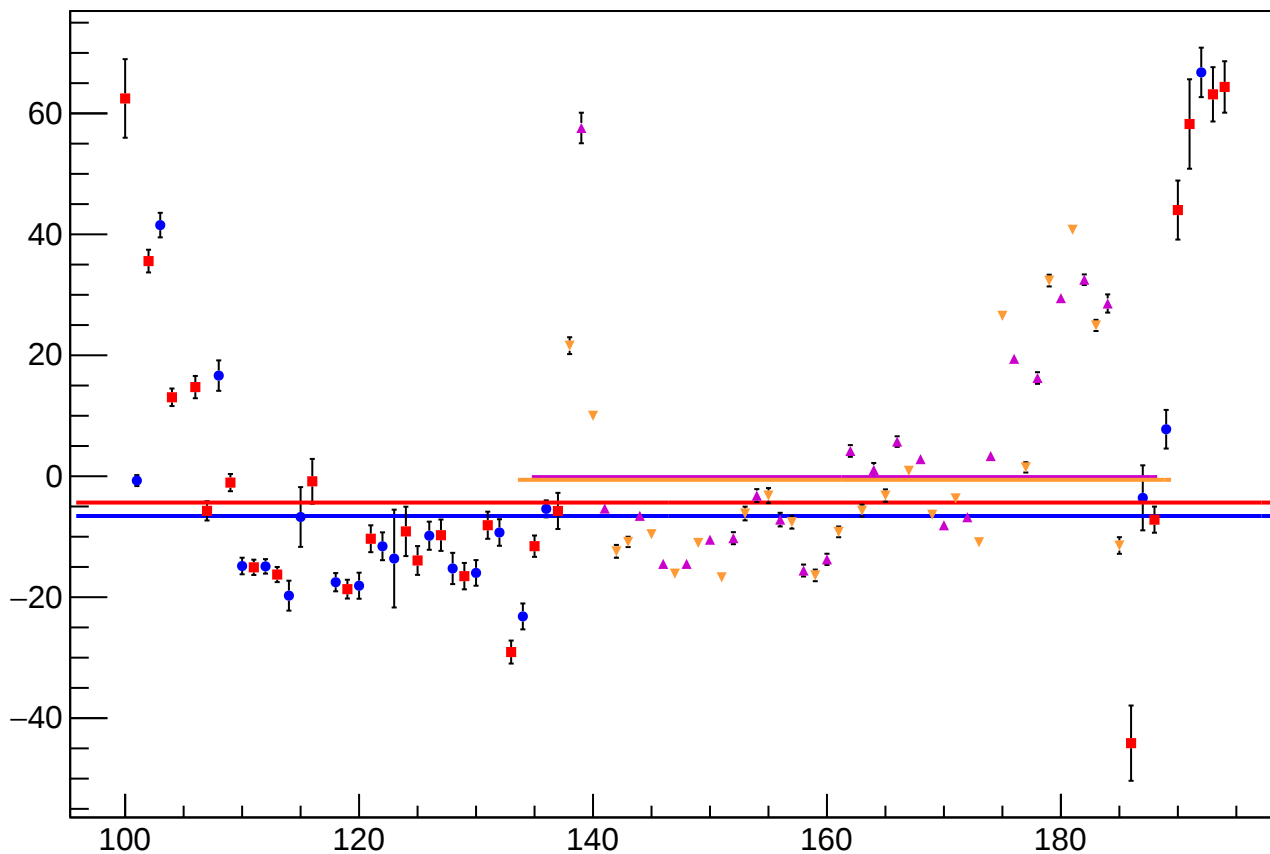
Right: -2.612 ± 1.031 χ^2/NDF : 1056.2/8

In: -41.753 ± 0.225 χ^2/NDF : 15079.9/25

Out: -40.833 ± 0.218 χ^2/NDF : 20292.6/30

All: -41.278 ± 0.157 χ^2/NDF : 35381.1/56

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.574 ± 0.423 $\chi^2/\text{NDF}: 1324.7/19$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: -4.352 ± 0.414 $\chi^2/\text{NDF}: 2012.1/24$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

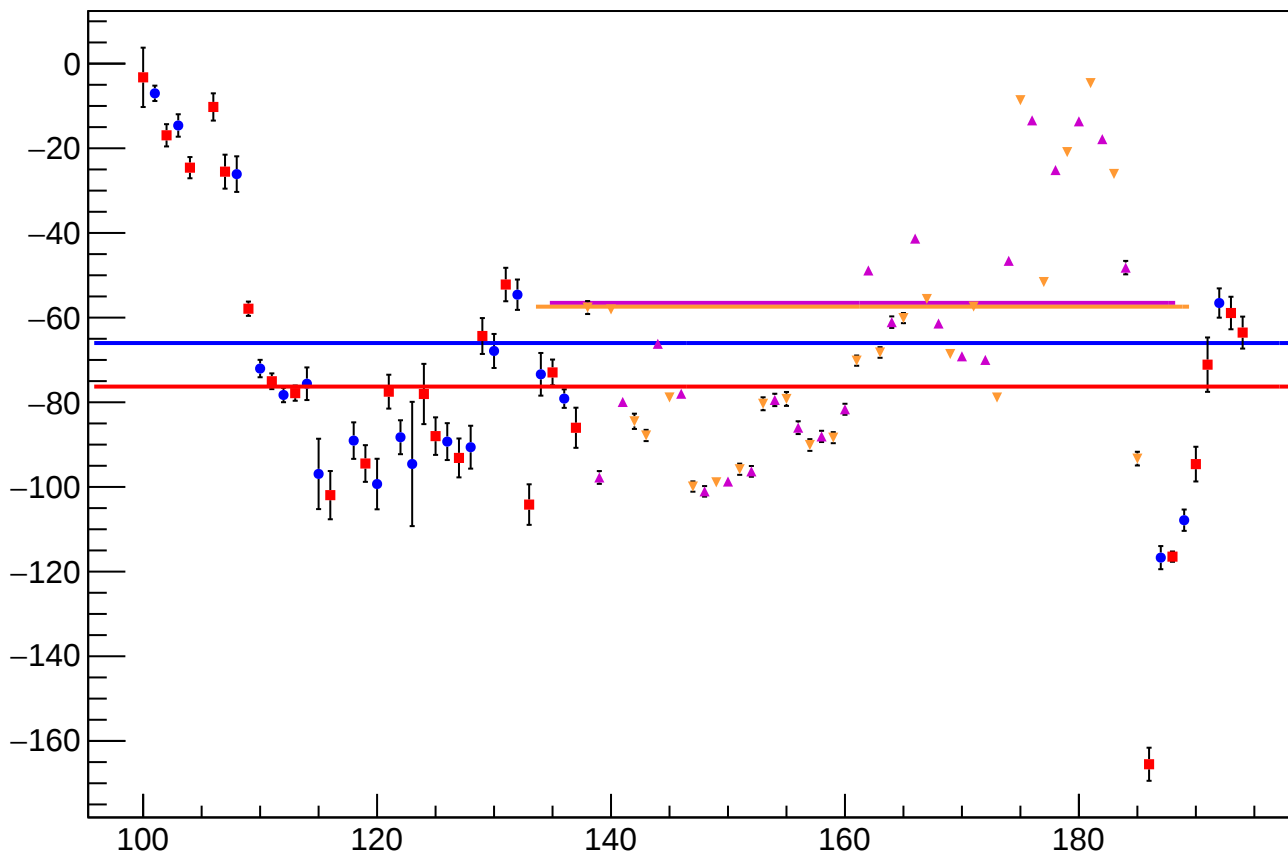
Right: -5.439 ± 0.296 $\chi^2/\text{NDF}: 3350.9/44$

In: -1.119 ± 0.165 $\chi^2/\text{NDF}: 8383.0/42$

Out: -1.156 ± 0.161 $\chi^2/\text{NDF}: 10833.2/49$

All: -1.138 ± 0.115 $\chi^2/\text{NDF}: 19216.2/92$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.006 ± 0.679 χ^2/NDF : 2423.8/19

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -76.290 ± 0.580 χ^2/NDF : 3548.2/24

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

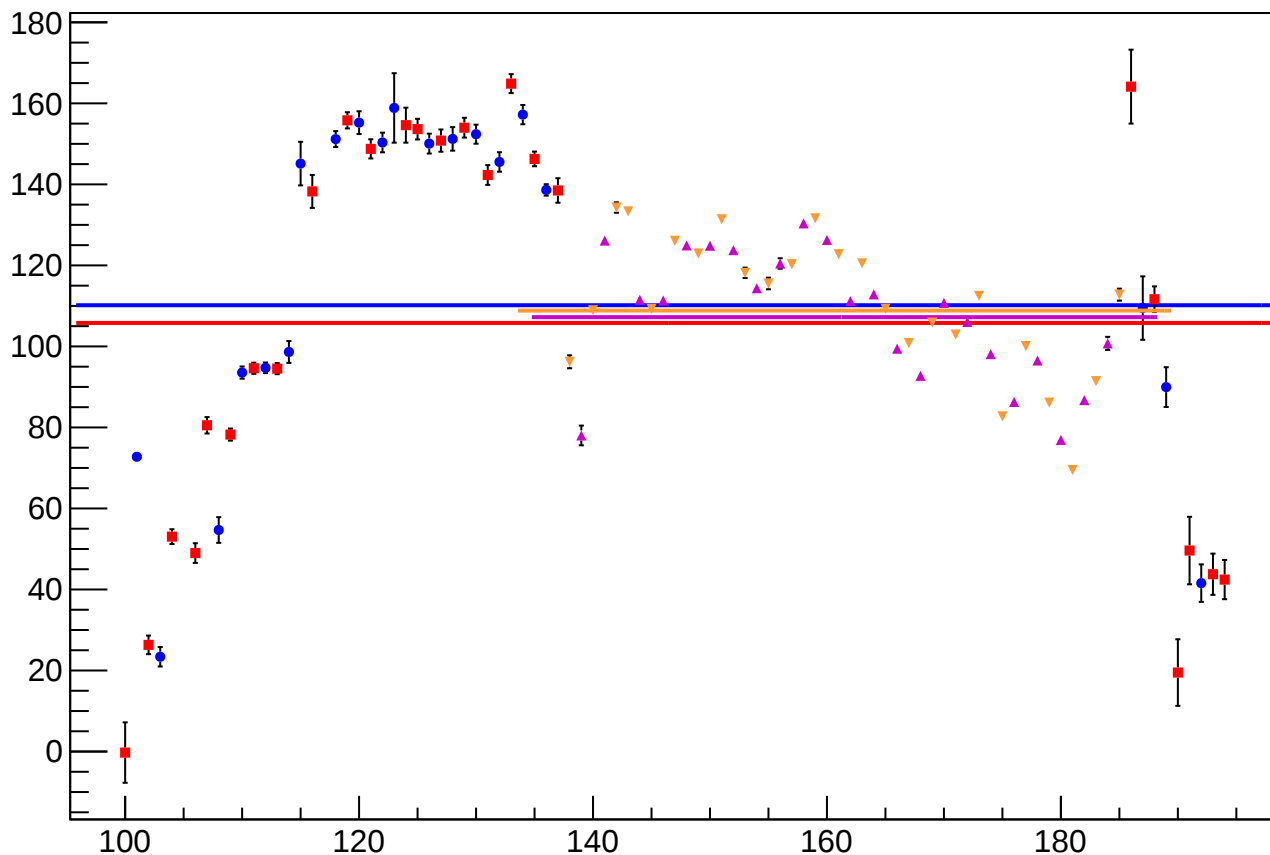
Right: -71.955 ± 0.441 χ^2/NDF : 6104.6/44

In: -57.472 ± 0.215 χ^2/NDF : 18951.8/42

Out: -59.849 ± 0.208 χ^2/NDF : 23075.0/49

All: -58.700 ± 0.150 χ^2/NDF : 42089.7/92

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 110.166 $\pm$ 0.484 χ^2 /NDF: 6104.5/19

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 105.795 $\pm$ 0.476 χ^2 /NDF: 7570.8/24

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF: 5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

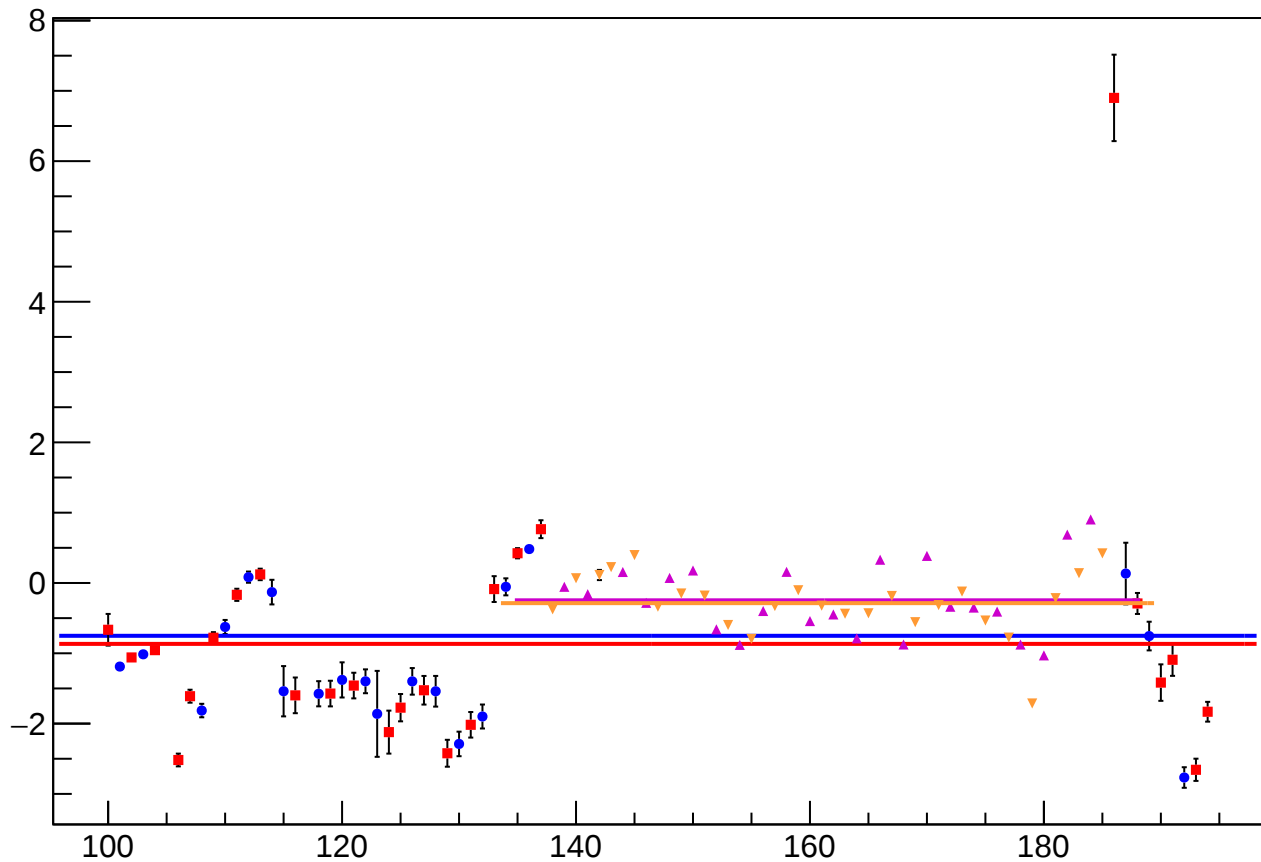
Right: 107.944 $\pm$ 0.339 χ^2 /NDF: 13716.7/44

In: 107.663 $\pm$ 0.187 χ^2 /NDF: 11701.2/42

Out: 108.399 $\pm$ 0.182 χ^2 /NDF: 15006.1/49

All: 108.039 $\pm$ 0.130 χ^2 /NDF: 26715.2/92

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.751 ± 0.025 $\chi^2/\text{NDF}: 1188.1/19$

Left Out: -0.287 ± 0.009 $\chi^2/\text{NDF}: 2052.9/24$

Right Out: -0.866 ± 0.023 $\chi^2/\text{NDF}: 1662.3/24$

Left In: -0.247 ± 0.009 $\chi^2/\text{NDF}: 2792.8/22$

Left: -0.267 ± 0.006 $\chi^2/\text{NDF}: 4855.3/47$

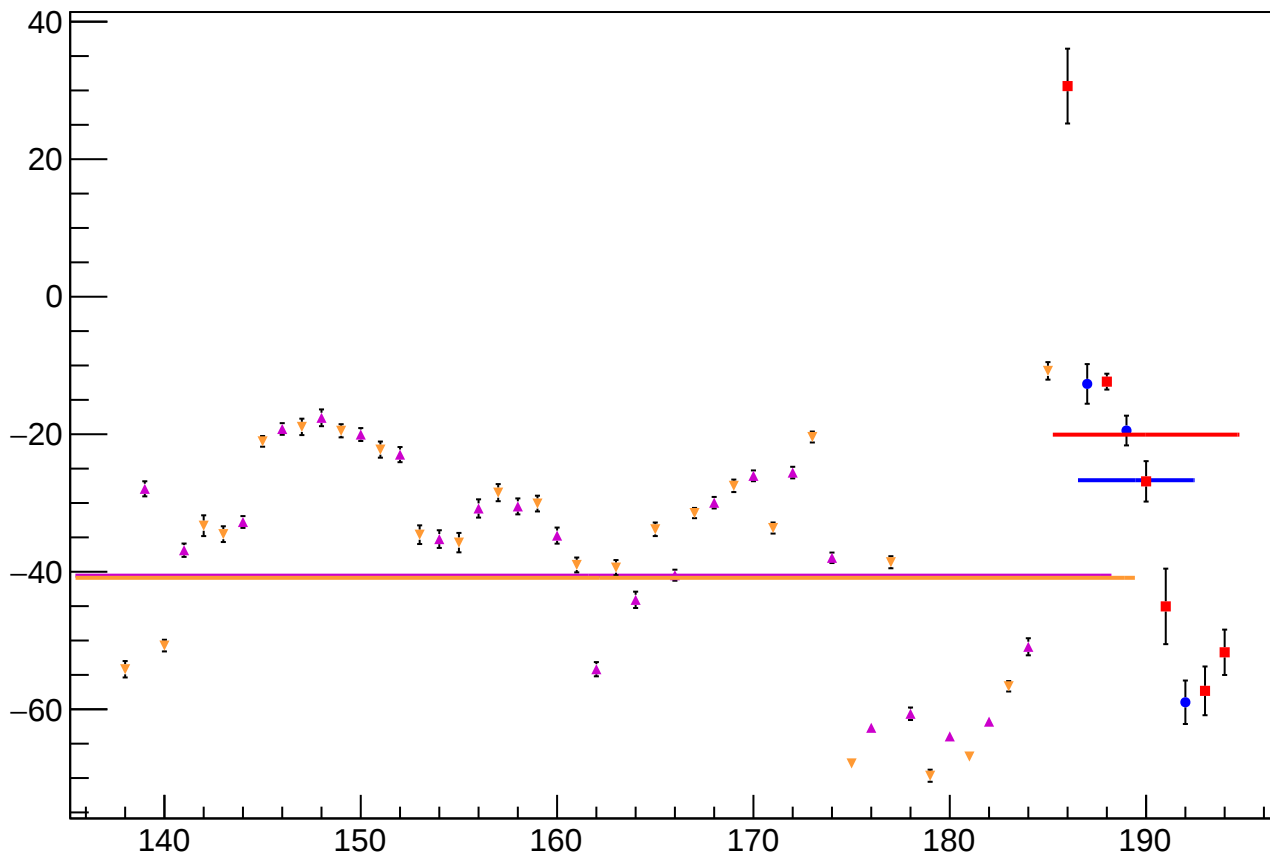
Right: -0.814 ± 0.017 $\chi^2/\text{NDF}: 2861.7/44$

In: -0.307 ± 0.009 $\chi^2/\text{NDF}: 4333.9/42$

Out: -0.364 ± 0.008 $\chi^2/\text{NDF}: 4255.4/49$

All: -0.336 ± 0.006 $\chi^2/\text{NDF}: 8611.5/92$

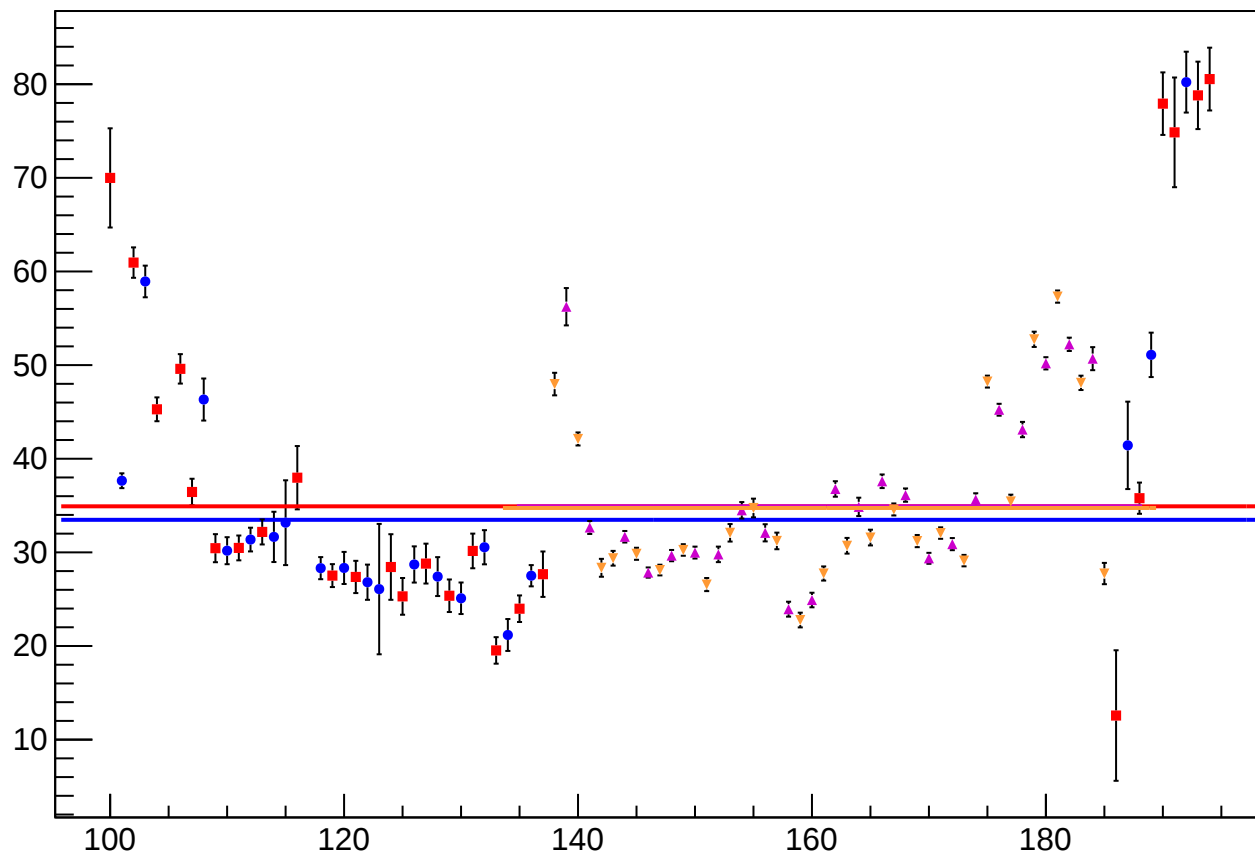
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.687 ± 1.518 $\chi^2/\text{NDF}: 139.1/2$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -20.060 ± 0.952 $\chi^2/\text{NDF}: 360.0/5$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -21.930 ± 0.806 $\chi^2/\text{NDF}: 512.7/8$
 In: -40.353 ± 0.188 $\chi^2/\text{NDF}: 7176.2/25$
 Out: -40.113 ± 0.183 $\chi^2/\text{NDF}: 9944.1/30$
 All: -40.229 ± 0.131 $\chi^2/\text{NDF}: 17121.1/56$

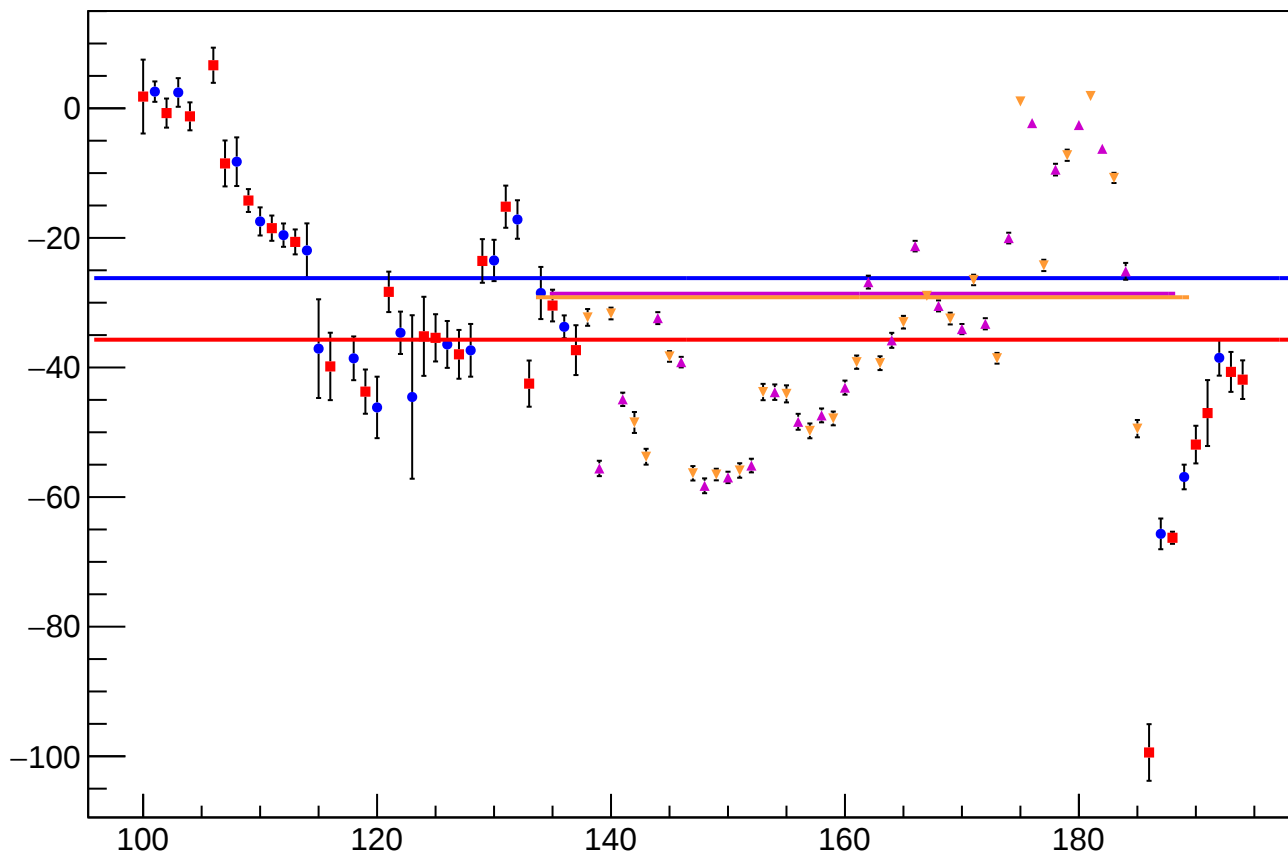
reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.476 ± 0.368 $\chi^2/\text{NDF}: 724.3/19$
 Left Out: 34.741 ± 0.147 $\chi^2/\text{NDF}: 3693.2/24$
 Right Out: 34.918 ± 0.362 $\chi^2/\text{NDF}: 1351.6/24$
 Left In: 34.922 ± 0.152 $\chi^2/\text{NDF}: 2672.9/22$

Left: 34.829 ± 0.106 $\chi^2/\text{NDF}: 6366.8/47$
 Right: 34.208 ± 0.258 $\chi^2/\text{NDF}: 2083.7/44$
 In: 34.712 ± 0.140 $\chi^2/\text{NDF}: 3410.4/42$
 Out: 34.766 ± 0.137 $\chi^2/\text{NDF}: 5044.9/49$
 All: 34.740 ± 0.098 $\chi^2/\text{NDF}: 8455.4/92$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -26.208 ± 0.595 χ^2/NDF : 1199.9/19

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -35.710 ± 0.501 χ^2/NDF : 2530.6/24

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

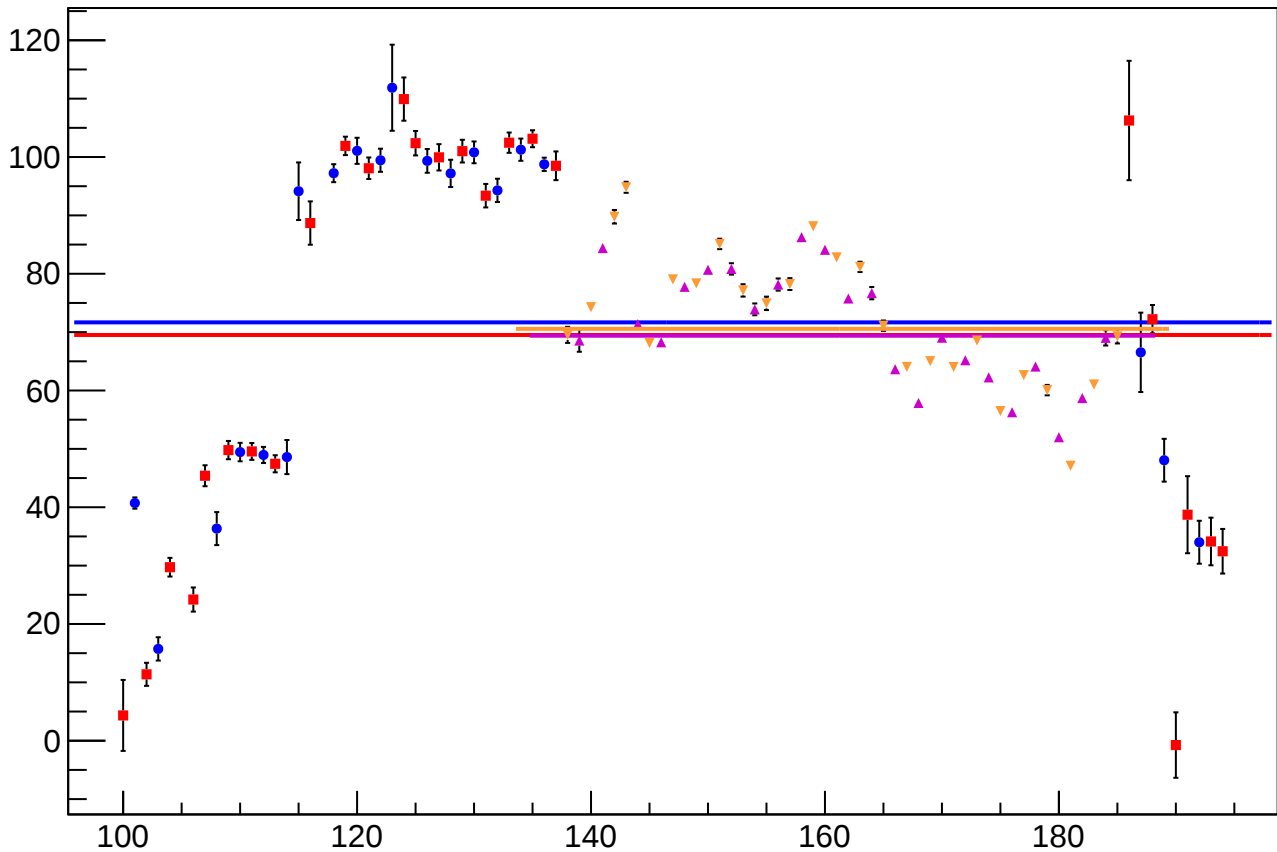
Right: -31.767 ± 0.383 χ^2/NDF : 3879.6/44

In: -28.394 ± 0.181 χ^2/NDF : 10255.6/42

Out: -29.963 ± 0.175 χ^2/NDF : 12806.4/49

All: -29.203 ± 0.126 χ^2/NDF : 23100.9/92

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 71.672 $\pm$ 0.422 χ^2 /NDF: 4823.2/19

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF:4589.1/24

Right Out: 69.511 $\pm$ 0.420 χ^2 /NDF: 5865.2/24

Left In: 69.387 $\pm$ 0.170 χ^2 /NDF:3321.8/22

Left: 69.989 $\pm$ 0.119 χ^2 /NDF: 7935.4/47

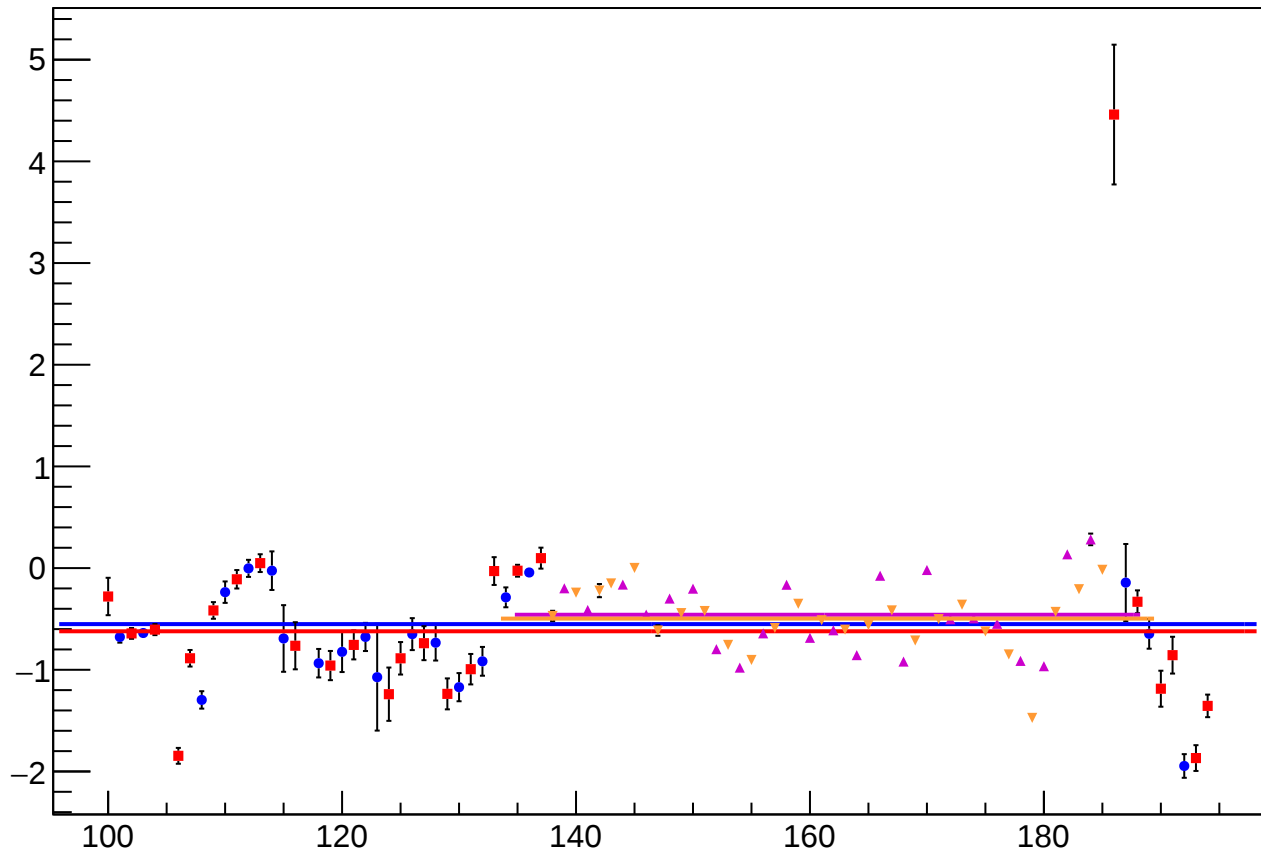
Right: 70.585 $\pm$ 0.298 χ^2 /NDF: 10701.6/44

In: 69.706 $\pm$ 0.158 χ^2 /NDF:8170.2/42

Out: 70.420 $\pm$ 0.155 χ^2 /NDF:10459.7/49

All: 70.071 $\pm$ 0.110 χ^2 /NDF: 18640.4/92

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.551 ± 0.022 χ^2/NDF : 453.1/19

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.621 ± 0.020 χ^2/NDF : 781.6/24

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

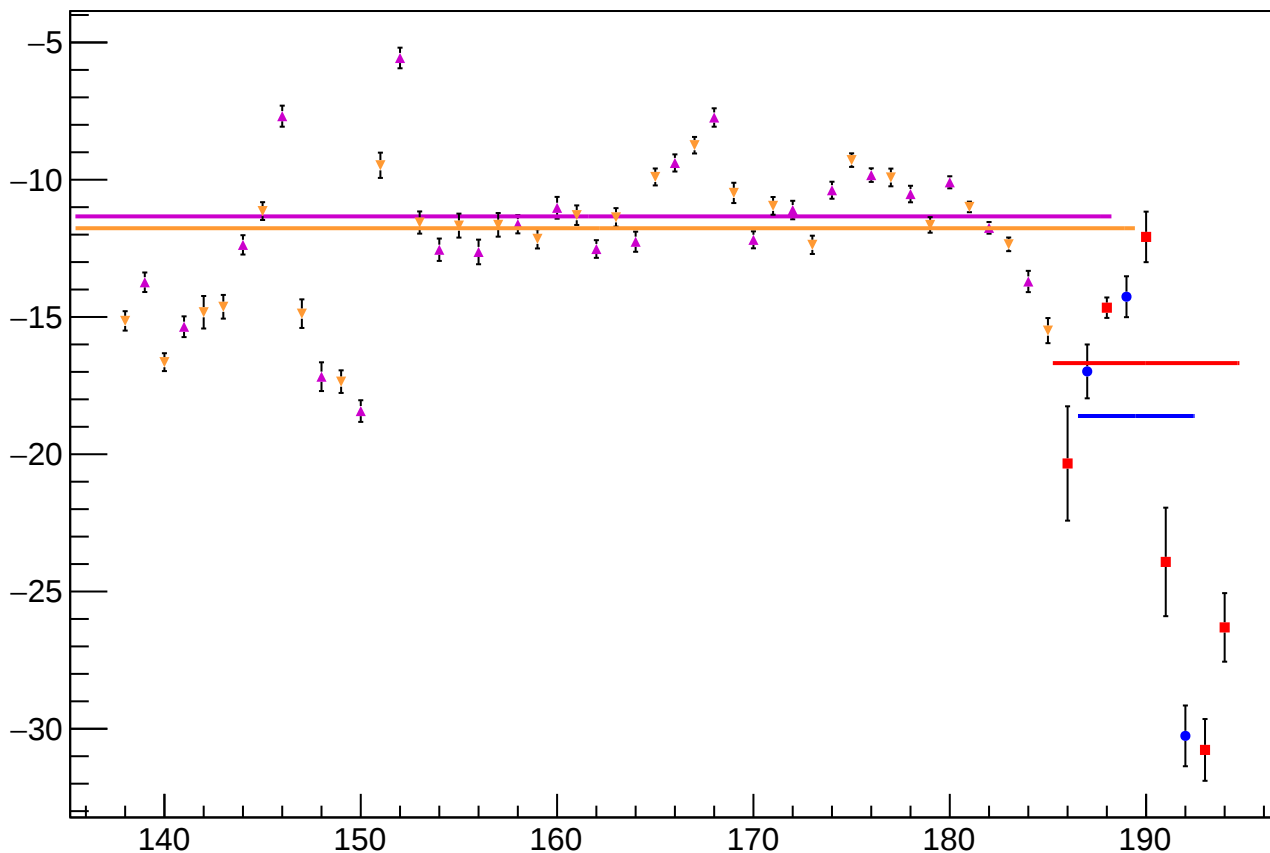
Right: -0.589 ± 0.015 χ^2/NDF : 1240.3/44

In: -0.469 ± 0.007 χ^2/NDF : 2427.5/42

Out: -0.512 ± 0.007 χ^2/NDF : 2264.4/49

All: -0.491 ± 0.005 χ^2/NDF : 4709.7/92

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.607 ± 0.523 $\chi^2/\text{NDF}: 147.6/2$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -16.680 ± 0.311 $\chi^2/\text{NDF}: 287.2/5$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$

Right: -17.184 ± 0.267 $\chi^2/\text{NDF}: 444.8/8$

In: -11.457 ± 0.067 $\chi^2/\text{NDF}: 1607.1/25$

Out: -11.982 ± 0.065 $\chi^2/\text{NDF}: 1546.1/30$

All: -11.729 ± 0.047 $\chi^2/\text{NDF}: 3184.6/56$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.480 ± 0.148 $\chi^2/\text{NDF}: 1533.8/19$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -34.831 ± 0.141 $\chi^2/\text{NDF}: 2064.3/24$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

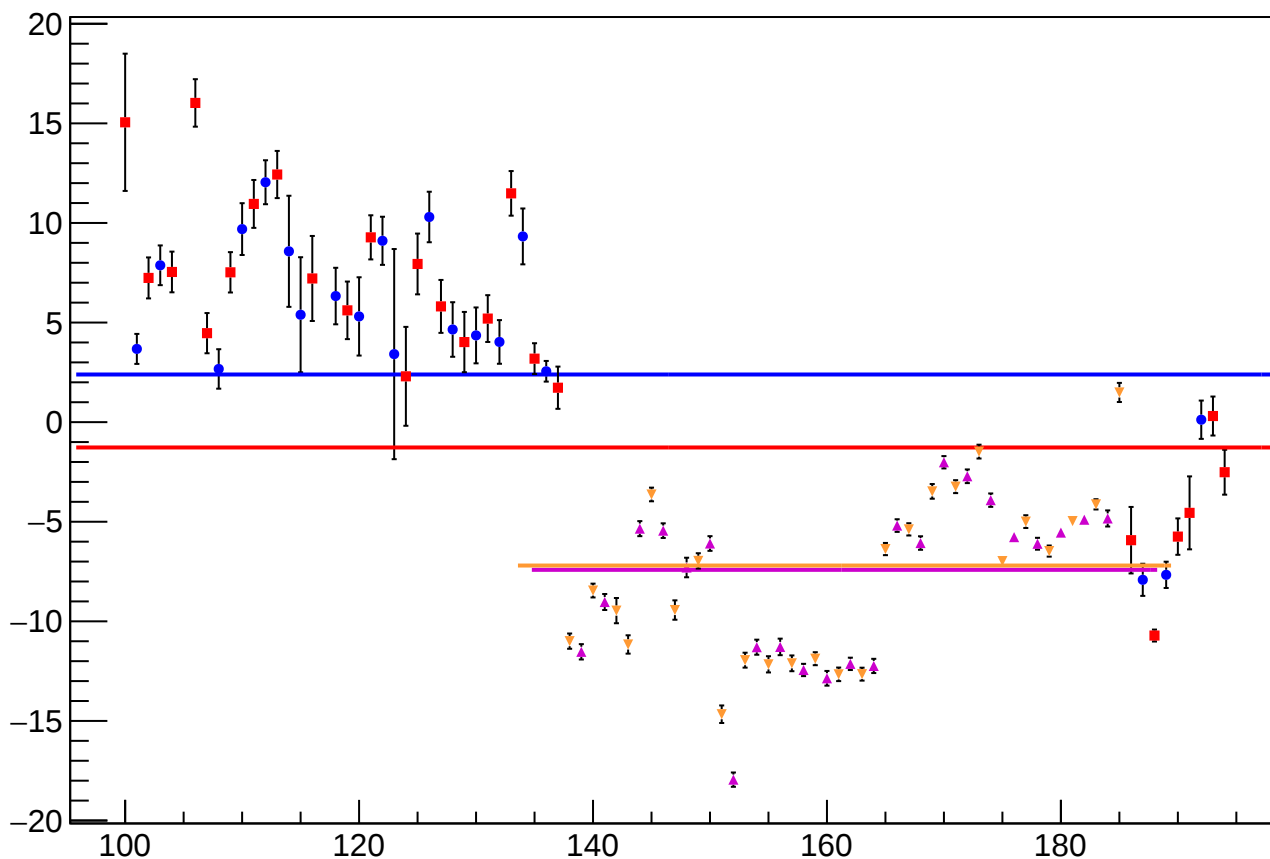
Right: -34.663 ± 0.102 $\chi^2/\text{NDF}: 3601.0/44$

In: -30.664 ± 0.052 $\chi^2/\text{NDF}: 3523.9/42$

Out: -30.797 ± 0.050 $\chi^2/\text{NDF}: 3729.8/49$

All: -30.733 ± 0.036 $\chi^2/\text{NDF}: 7257.1/92$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

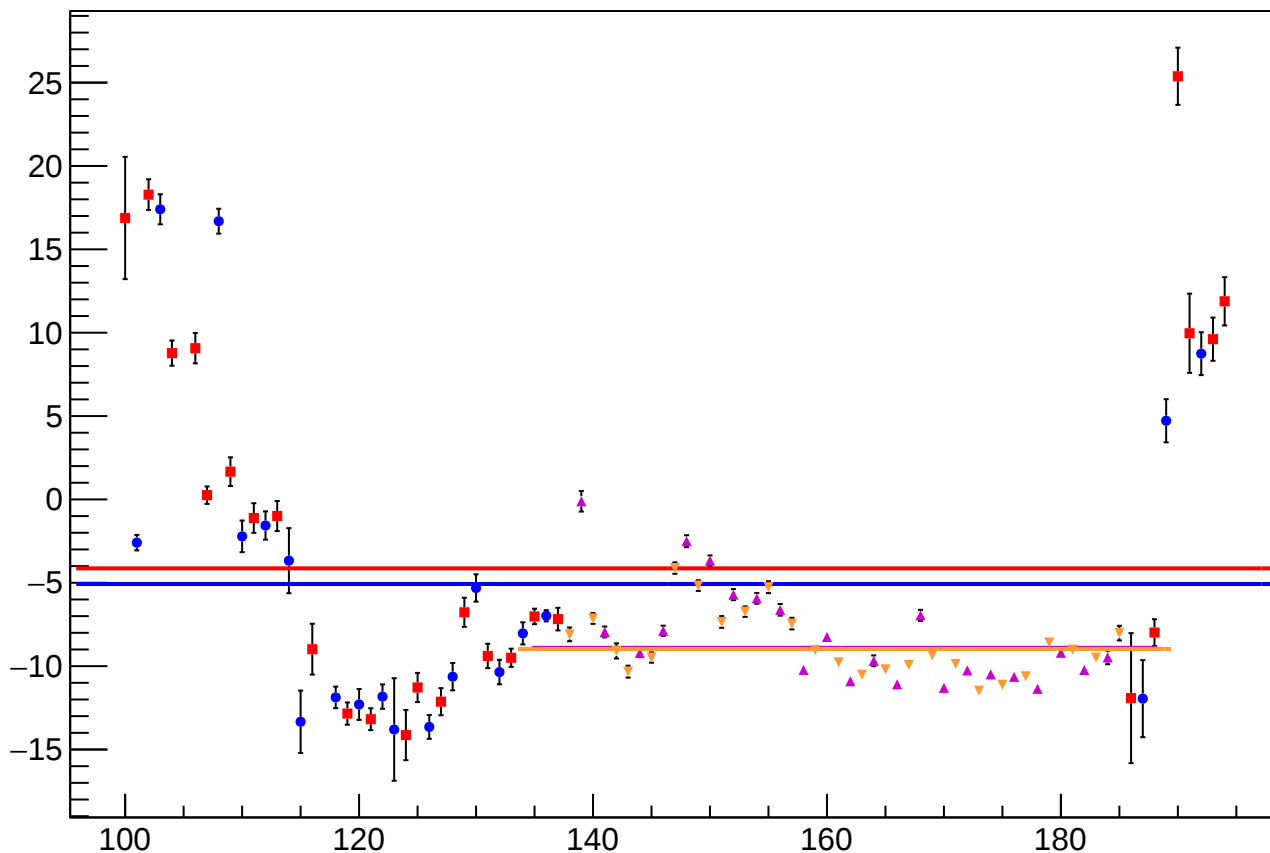


Right In: 2.392 ± 0.232 $\chi^2/\text{NDF}: 659.7/19$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.272 ± 0.189 $\chi^2/\text{NDF}: 2158.3/24$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: 0.188 ± 0.147 $\chi^2/\text{NDF}: 2967.9/44$
 In: -6.643 ± 0.065 $\chi^2/\text{NDF}: 5427.6/42$
 Out: -6.539 ± 0.063 $\chi^2/\text{NDF}: 6070.3/49$

All: -6.589 ± 0.045 $\chi^2/\text{NDF}: 11499.2/92$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.073 ± 0.168 χ^2/NDF : 2283.3/19

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -4.134 ± 0.165 χ^2/NDF : 2655.5/24

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

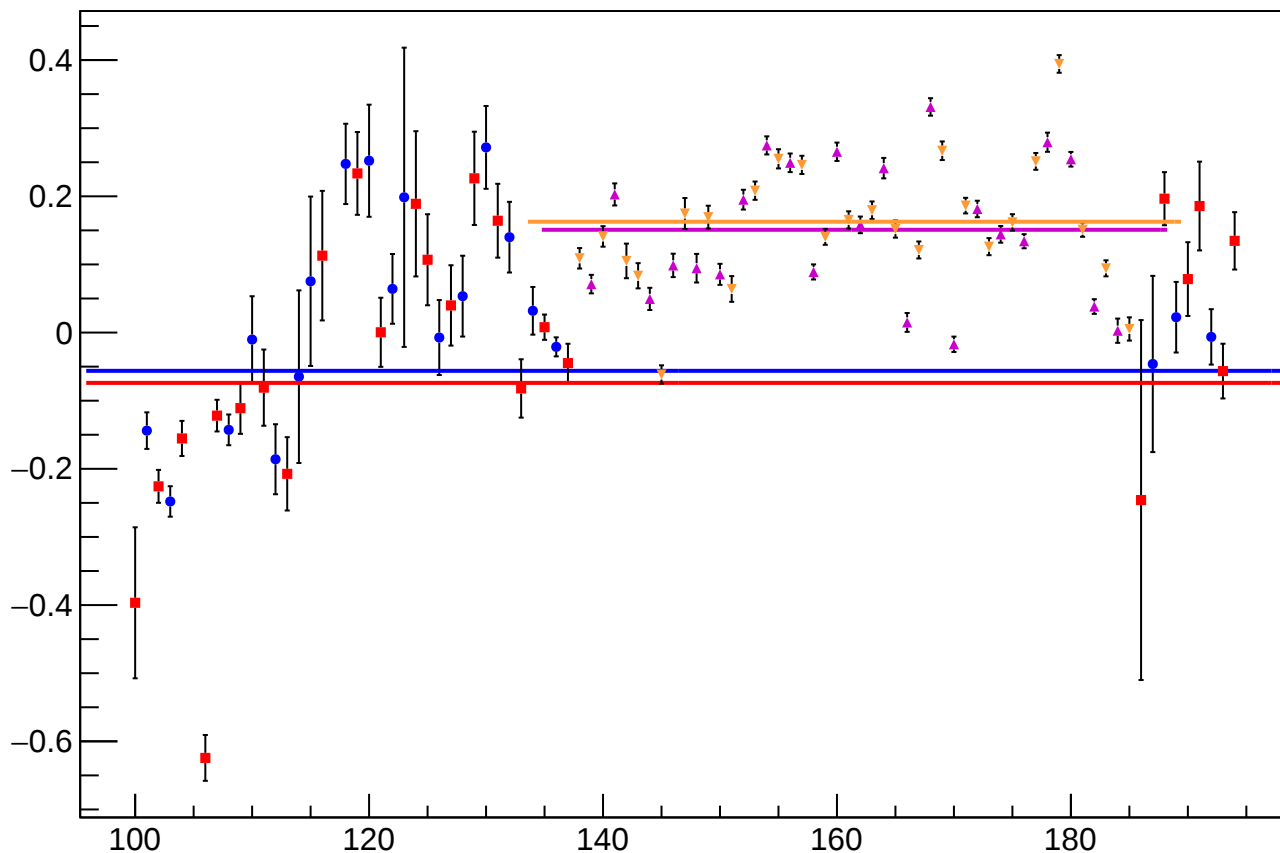
Right: -4.597 ± 0.118 χ^2/NDF : 4954.7/44

In: -8.445 ± 0.058 χ^2/NDF : 4276.2/42

Out: -8.405 ± 0.057 χ^2/NDF : 4289.5/49

All: -8.424 ± 0.040 χ^2/NDF : 8565.9/92

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.056 ± 0.008 χ^2/NDF : 218.6/19

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.074 ± 0.008 χ^2/NDF : 542.5/24

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

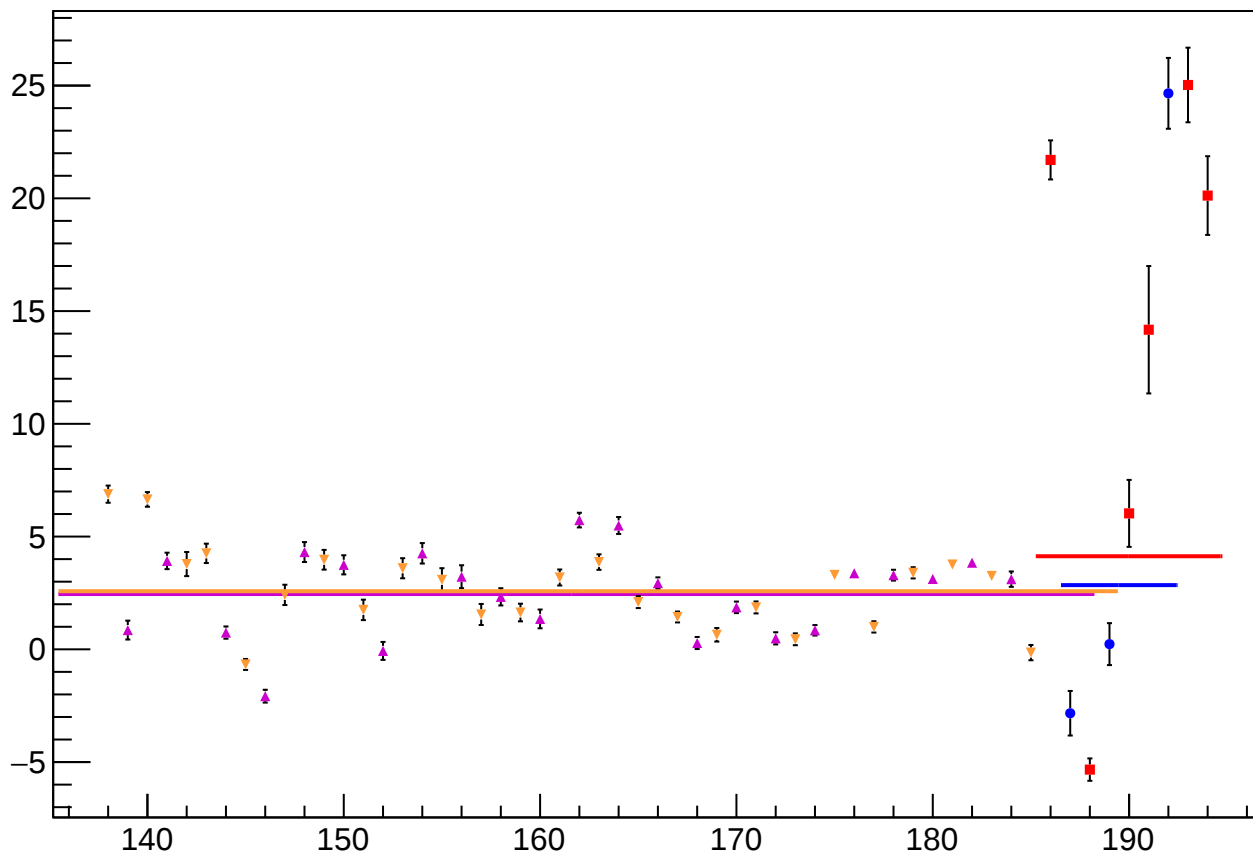
Right: -0.065 ± 0.006 χ^2/NDF : 763.6/44

In: 0.129 ± 0.003 χ^2/NDF : 2088.3/42

Out: 0.137 ± 0.003 χ^2/NDF : 2381.0/49

All: 0.133 ± 0.002 χ^2/NDF : 4473.6/92

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.848 $\pm$ 0.622 χ^2 /NDF: 233.7/2

Left Out: 2.577 $\pm$ 0.058 χ^2 /NDF:867.5/24

Right Out: 4.128 $\pm$ 0.387 χ^2 /NDF: 1032.6/5

Left In: 2.452 $\pm$ 0.059 χ^2 /NDF:871.3/22

Left: 2.516 $\pm$ 0.042 χ^2 /NDF: 1741.0/47

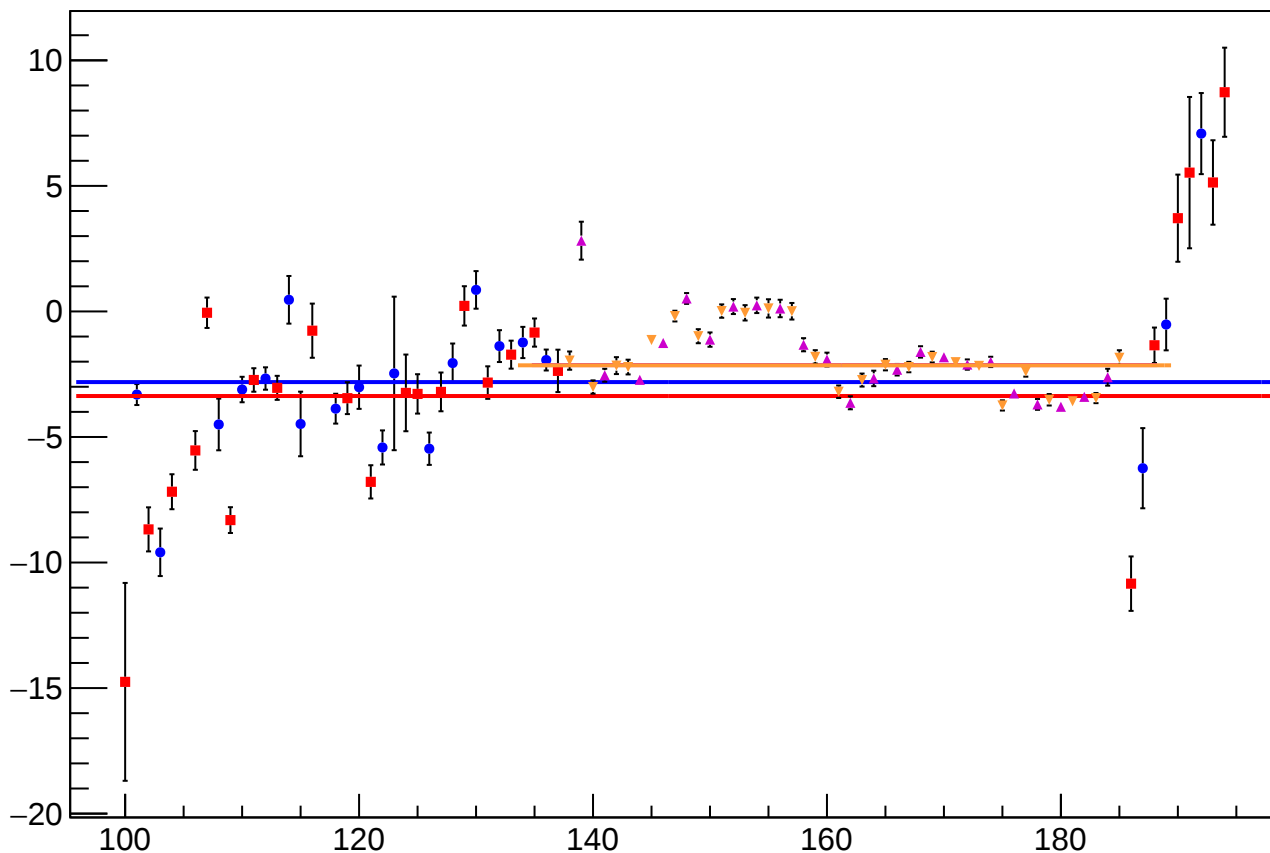
Right: 3.770 $\pm$ 0.329 χ^2 /NDF: 1269.4/8

In: 2.456 $\pm$ 0.059 χ^2 /NDF:1105.4/25

Out: 2.611 $\pm$ 0.058 χ^2 /NDF:1915.8/30

All: 2.535 $\pm$ 0.041 χ^2 /NDF: 3024.7/56

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.813 ± 0.152 $\chi^2/\text{NDF}: 192.6/19$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -3.369 ± 0.148 $\chi^2/\text{NDF}: 445.5/24$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

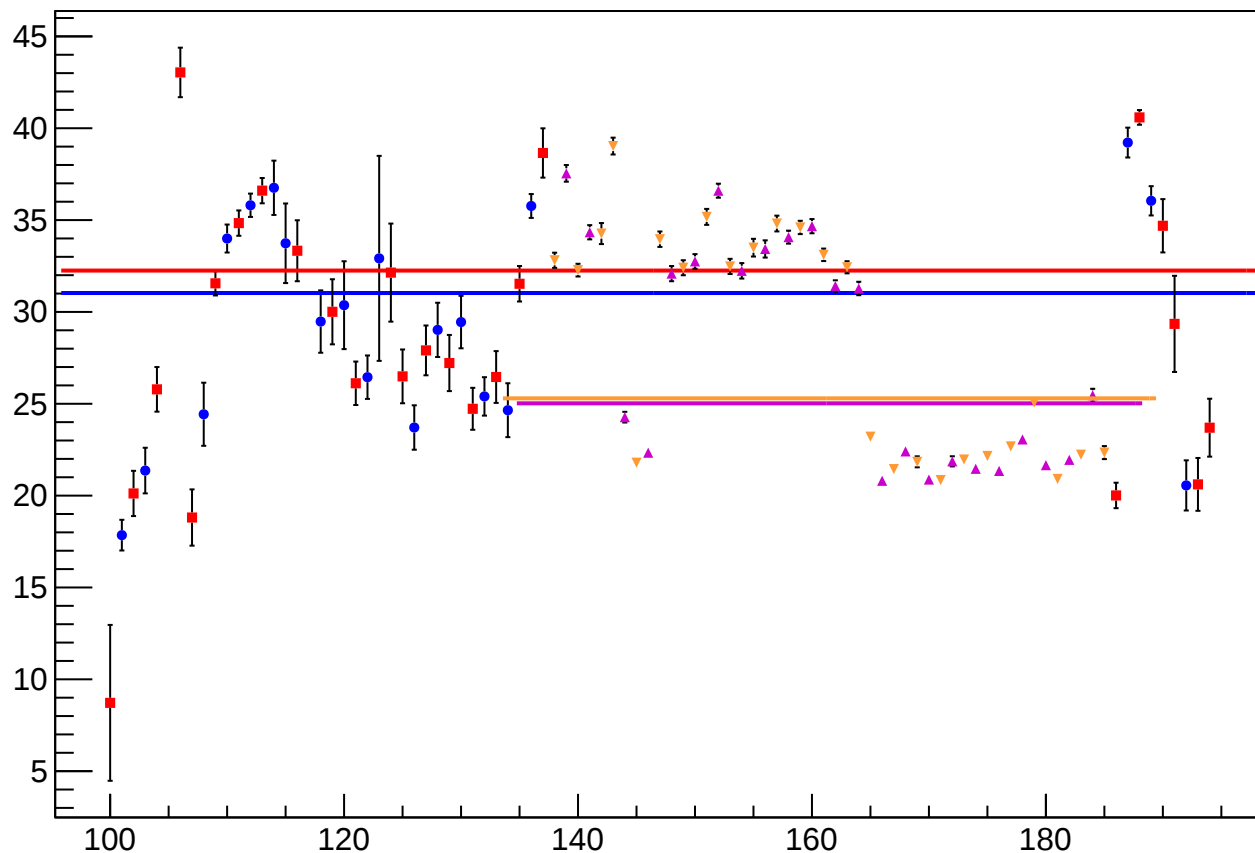
Right: -3.099 ± 0.106 $\chi^2/\text{NDF}: 644.9/44$

In: -2.199 ± 0.046 $\chi^2/\text{NDF}: 901.8/42$

Out: -2.261 ± 0.045 $\chi^2/\text{NDF}: 1080.8/49$

All: -2.230 ± 0.032 $\chi^2/\text{NDF}: 1983.5/92$

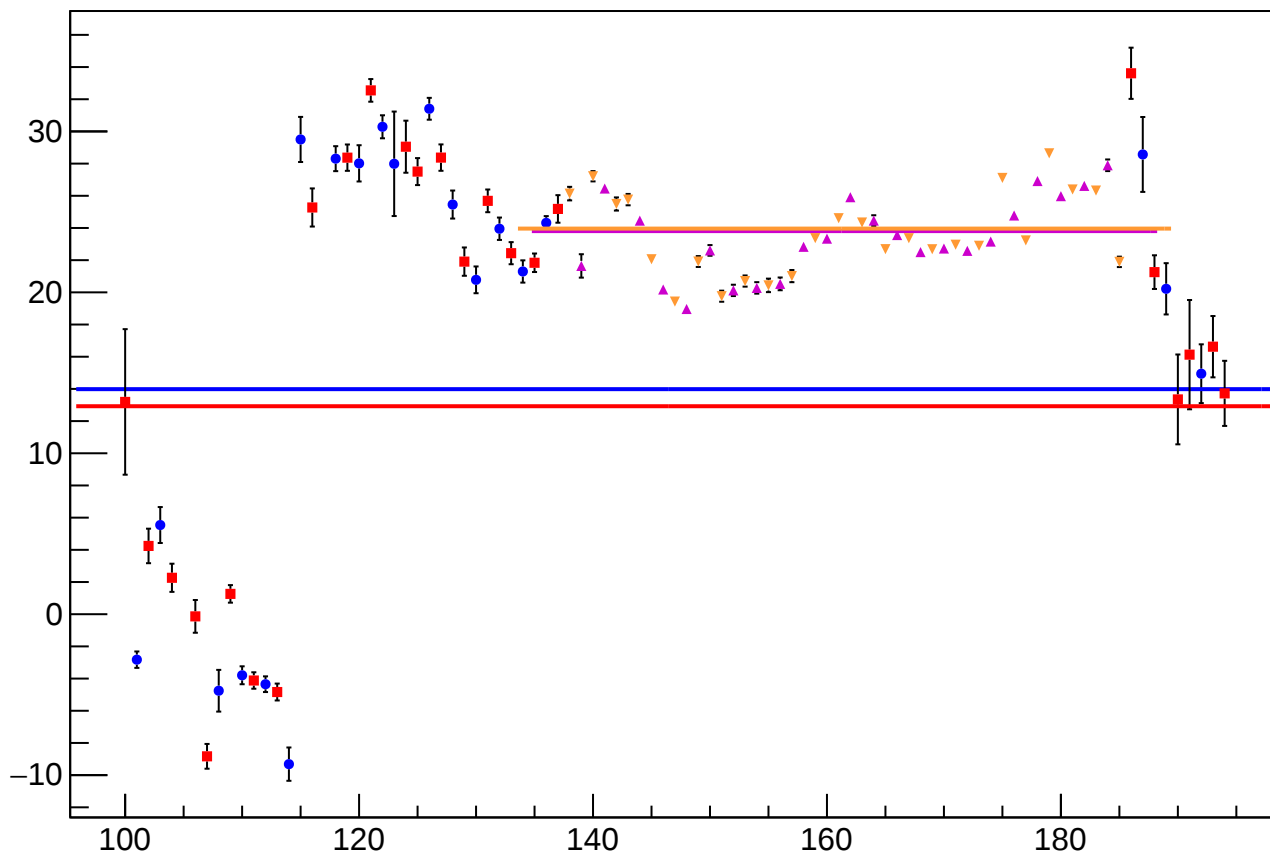
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 31.030 ± 0.239 $\chi^2/\text{NDF}: 769.7/19$
 Left Out: 25.296 ± 0.059 $\chi^2/\text{NDF}: 8272.3/24$
 Right Out: 32.252 ± 0.202 $\chi^2/\text{NDF}: 1346.4/24$
 Left In: 25.025 ± 0.060 $\chi^2/\text{NDF}: 7610.5/22$

Left: 25.162 ± 0.042 $\chi^2/\text{NDF}: 15893.3/47$
 Right: 31.743 ± 0.154 $\chi^2/\text{NDF}: 2131.4/44$
 In: 25.378 ± 0.058 $\chi^2/\text{NDF}: 8976.7/42$
 Out: 25.841 ± 0.056 $\chi^2/\text{NDF}: 10714.8/49$
 All: 25.615 ± 0.040 $\chi^2/\text{NDF}: 19724.3/92$

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.985 $\pm$ 0.171 χ^2 /NDF: 7330.5/19

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 12.924 $\pm$ 0.169 χ^2 /NDF: 7199.2/24

Left In: 23.805 $\pm$ 0.054 χ^2 /NDF:1761.3/22

Left: 23.885 $\pm$ 0.038 χ^2 /NDF: 3688.0/47

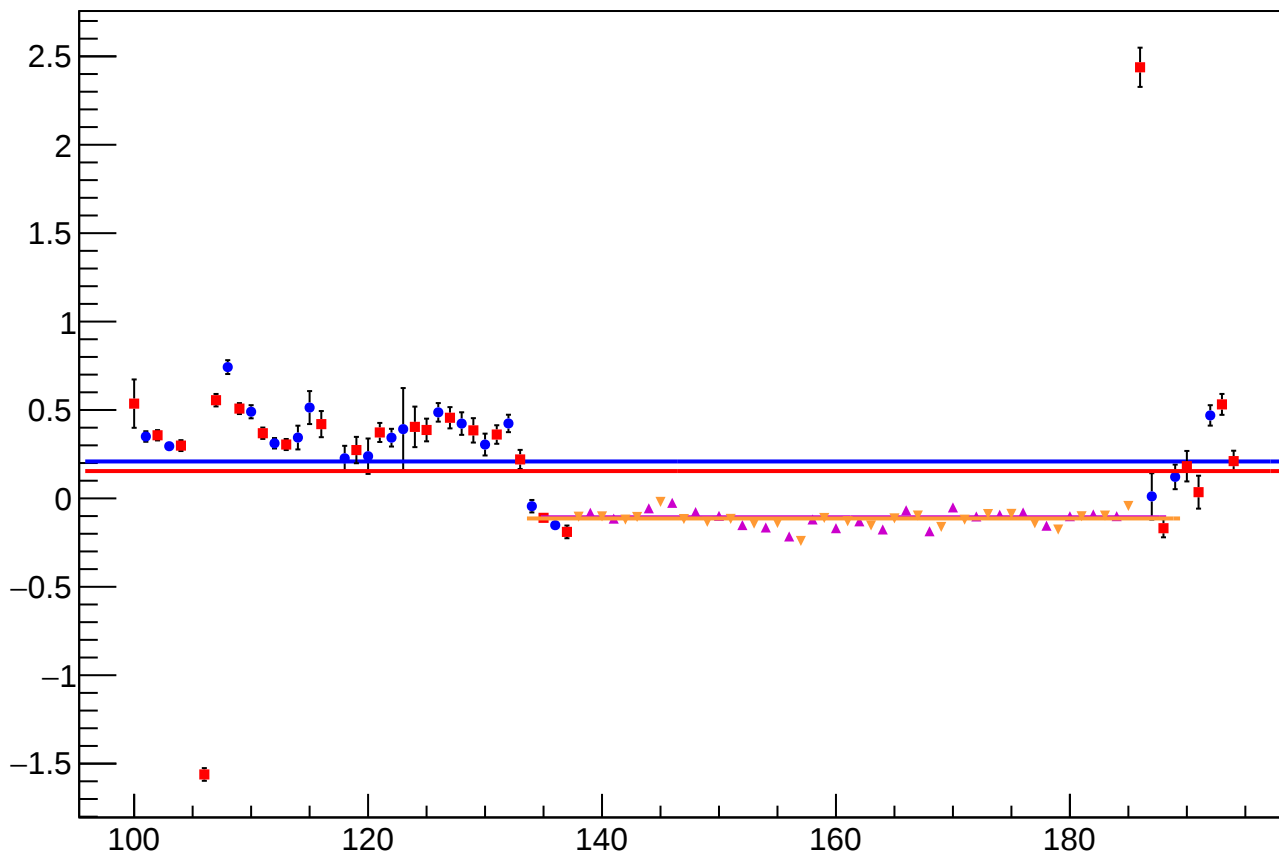
Right: 13.448 $\pm$ 0.120 χ^2 /NDF: 14549.2/44

In: 22.911 $\pm$ 0.052 χ^2 /NDF:12097.4/42

Out: 22.967 $\pm$ 0.051 χ^2 /NDF:13009.8/49

All: 22.939 $\pm$ 0.036 χ^2 /NDF: 25107.8/92

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.209 ± 0.009 $\chi^2/\text{NDF}: 870.8/19$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.155 ± 0.009 $\chi^2/\text{NDF}: 3522.6/24$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

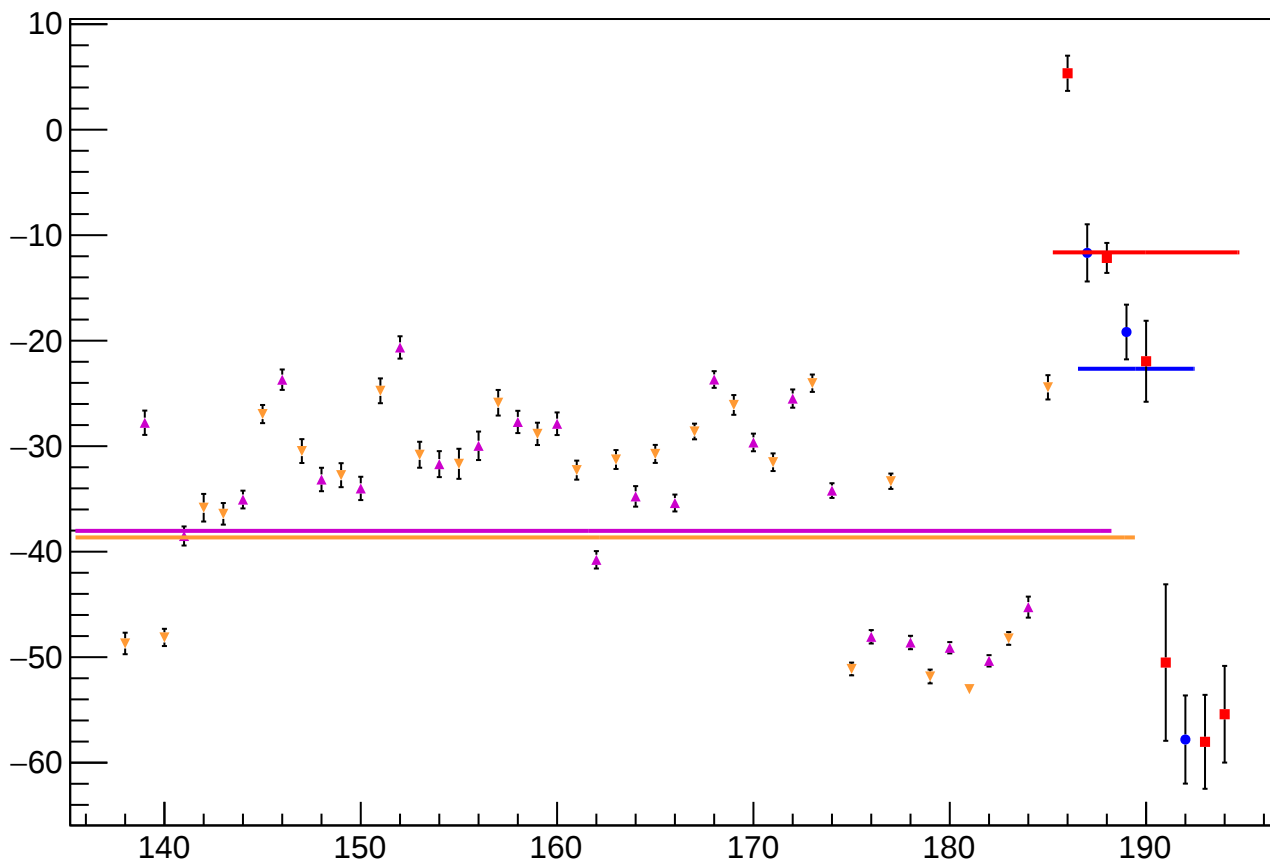
Right: 0.180 ± 0.006 $\chi^2/\text{NDF}: 4411.8/44$

In: -0.085 ± 0.002 $\chi^2/\text{NDF}: 2299.5/42$

Out: -0.094 ± 0.002 $\chi^2/\text{NDF}: 4684.3/49$

All: -0.090 ± 0.002 $\chi^2/\text{NDF}: 6991.1/92$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.662 ± 1.710 $\chi^2/\text{NDF}: 89.0/2$
 Left Out: -38.650 ± 0.169 $\chi^2/\text{NDF}: 4077.2/24$
 Right Out: -11.630 ± 0.981 $\chi^2/\text{NDF}: 338.2/5$
 Left In: -38.027 ± 0.173 $\chi^2/\text{NDF}: 3091.9/22$

Left: -38.346 ± 0.121 $\chi^2/\text{NDF}: 7175.7/47$

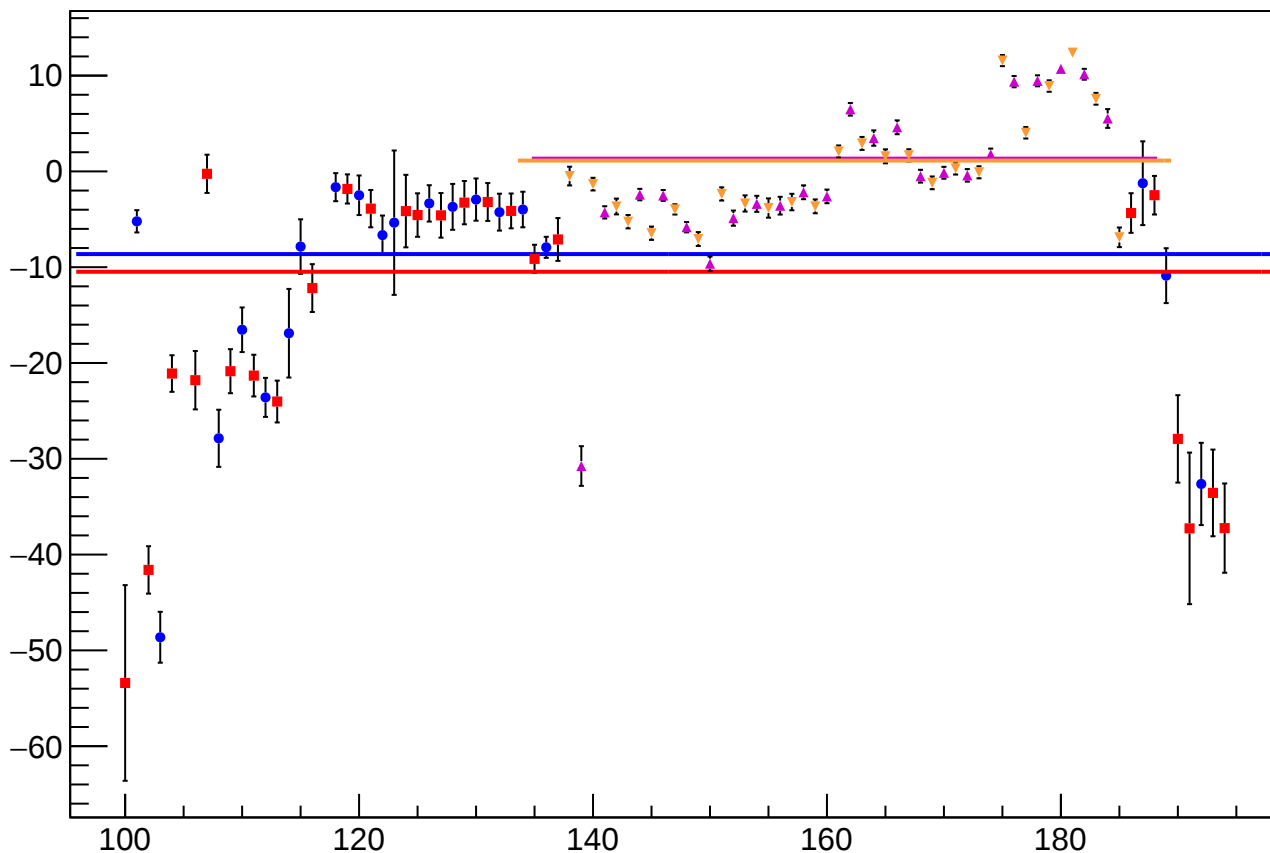
Right: -14.364 ± 0.851 $\chi^2/\text{NDF}: 458.4/8$

In: -37.871 ± 0.172 $\chi^2/\text{NDF}: 3260.8/25$

Out: -37.871 ± 0.167 $\chi^2/\text{NDF}: 5151.5/30$

All: -37.871 ± 0.120 $\chi^2/\text{NDF}: 8412.3/56$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.632 ± 0.455 χ^2/NDF : 443.5/19

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -10.477 ± 0.458 χ^2/NDF : 539.5/24

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

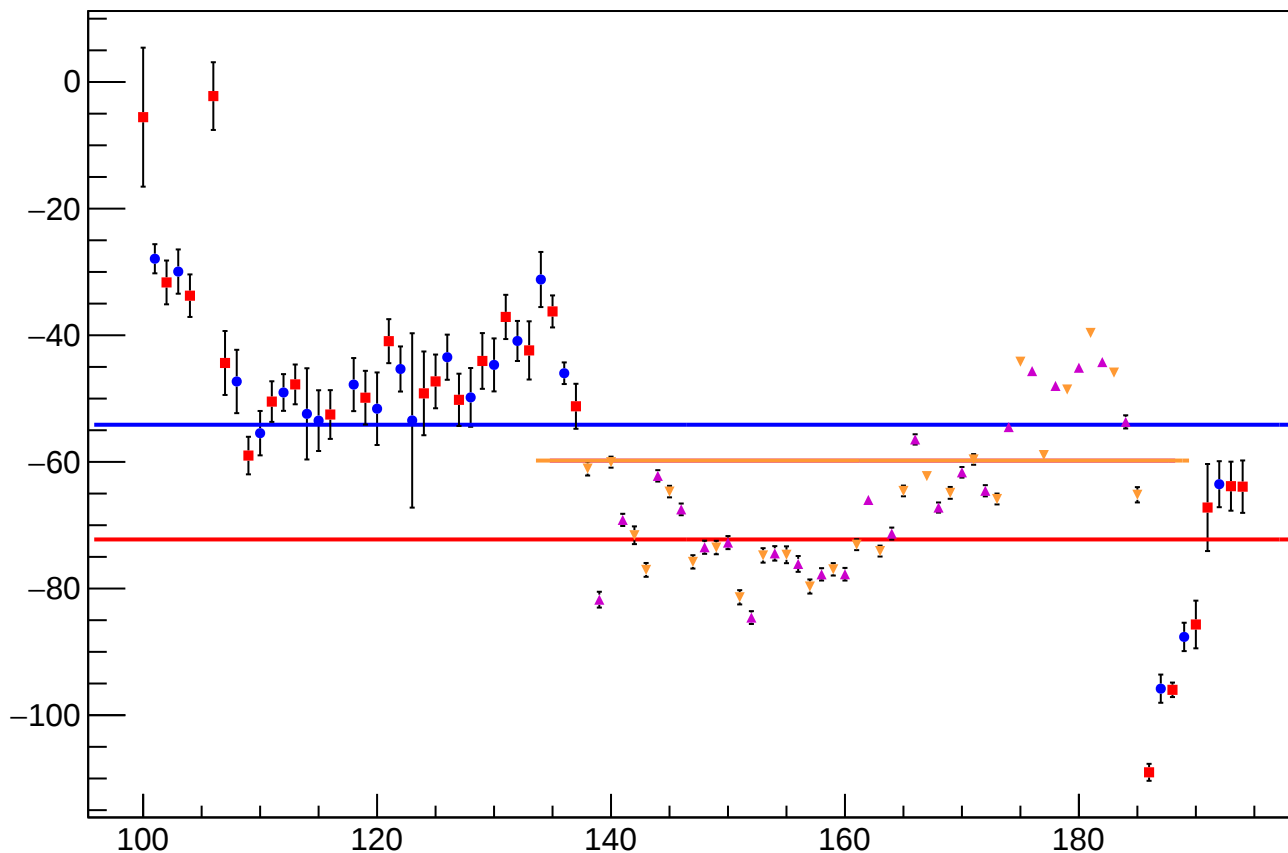
Right: -9.550 ± 0.323 χ^2/NDF : 991.1/44

In: 0.471 ± 0.134 χ^2/NDF : 2928.7/42

Out: 0.188 ± 0.130 χ^2/NDF : 2930.0/49

All: 0.326 ± 0.093 χ^2/NDF : 5861.1/92

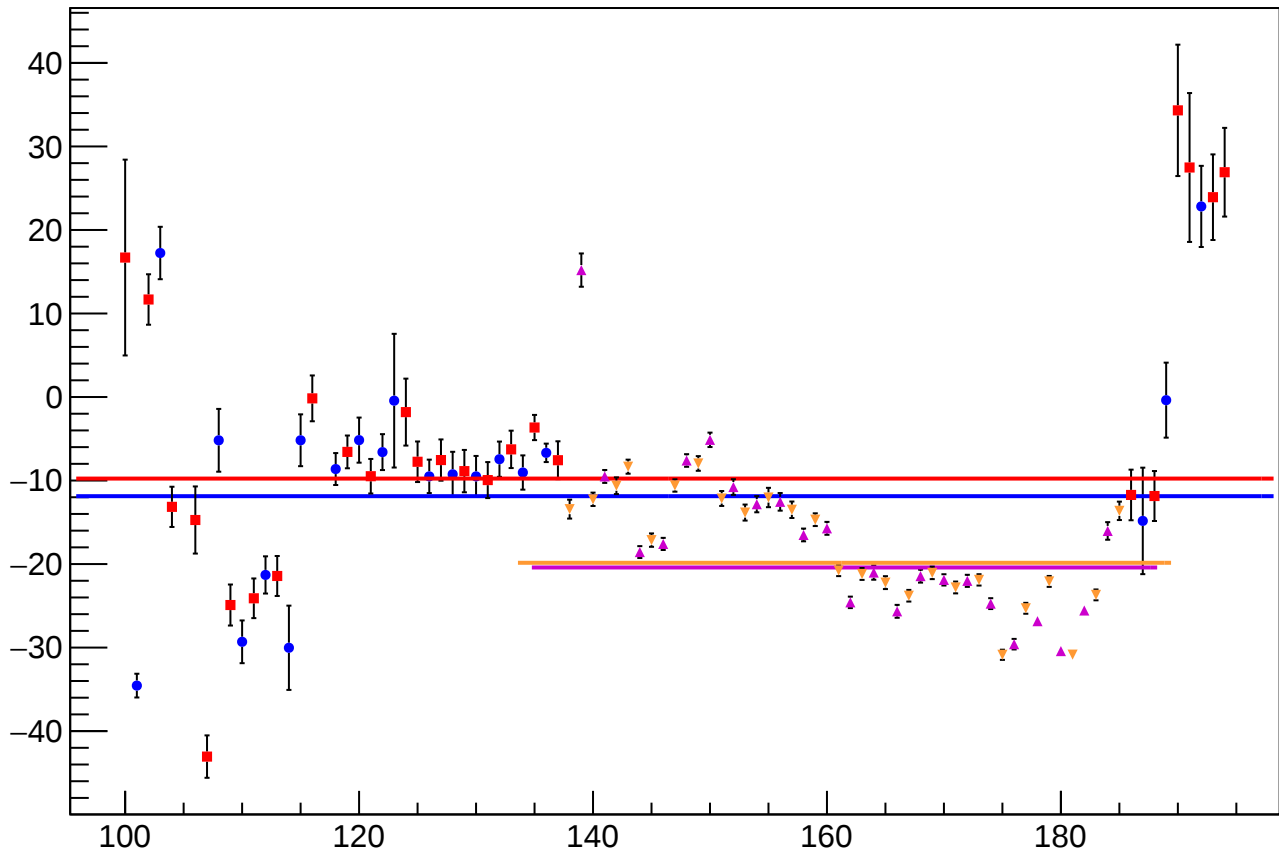
reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.131 ± 0.726 χ^2/NDF : 855.1/19
 Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24
 Right Out: -72.248 ± 0.591 χ^2/NDF : 2474.5/24
 Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47
 Right: -65.023 ± 0.458 χ^2/NDF : 3704.4/44
 In: -59.496 ± 0.169 χ^2/NDF : 6130.4/42
 Out: -60.742 ± 0.163 χ^2/NDF : 8722.7/49
 All: -60.138 ± 0.117 χ^2/NDF : 14881.2/92

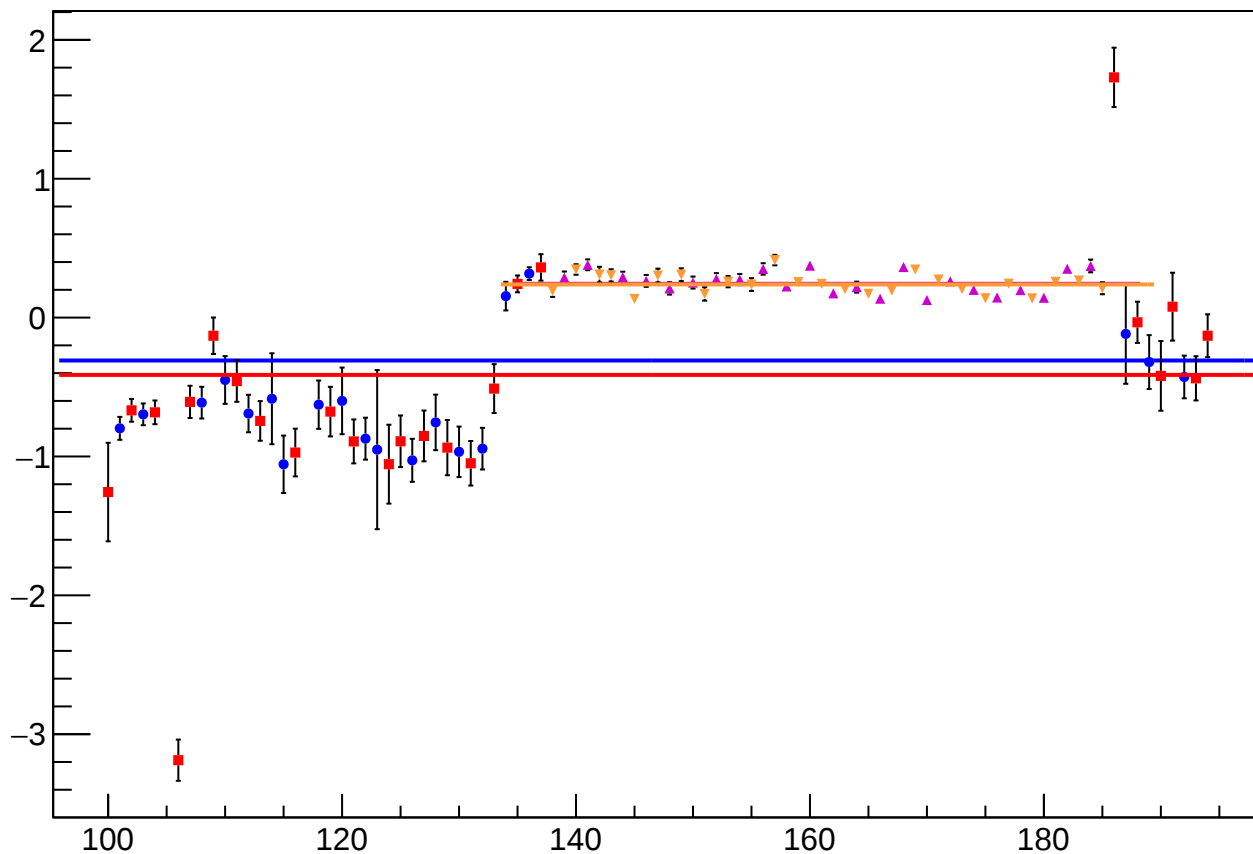
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -11.873 ± 0.516 $\chi^2/\text{NDF}: 532.3/19$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -9.765 ± 0.529 $\chi^2/\text{NDF}: 510.0/24$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -10.846 ± 0.369 $\chi^2/\text{NDF}: 1050.5/44$
 In: -19.689 ± 0.150 $\chi^2/\text{NDF}: 3085.3/42$
 Out: -19.071 ± 0.147 $\chi^2/\text{NDF}: 2776.6/49$
 All: -19.373 ± 0.105 $\chi^2/\text{NDF}: 5870.5/92$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.309 ± 0.027 χ^2/NDF : 372.6/19

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.413 ± 0.027 χ^2/NDF : 747.8/24

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

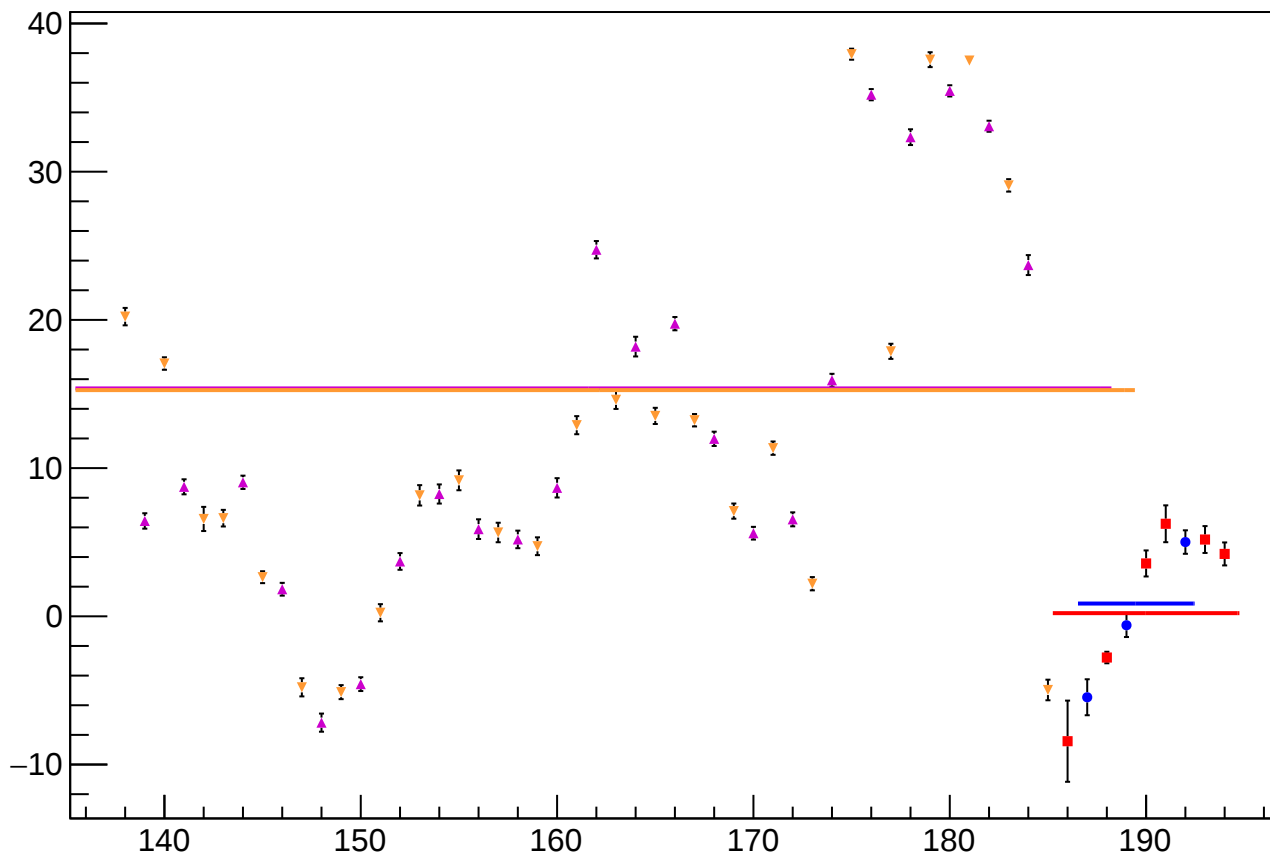
Right: -0.361 ± 0.019 χ^2/NDF : 1127.9/44

In: 0.206 ± 0.007 χ^2/NDF : 906.5/42

Out: 0.197 ± 0.007 χ^2/NDF : 1397.4/49

All: 0.201 ± 0.005 χ^2/NDF : 2304.9/92

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.862 ± 0.510 χ^2/NDF : 57.9/2

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: 0.214 ± 0.294 χ^2/NDF : 163.9/5

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

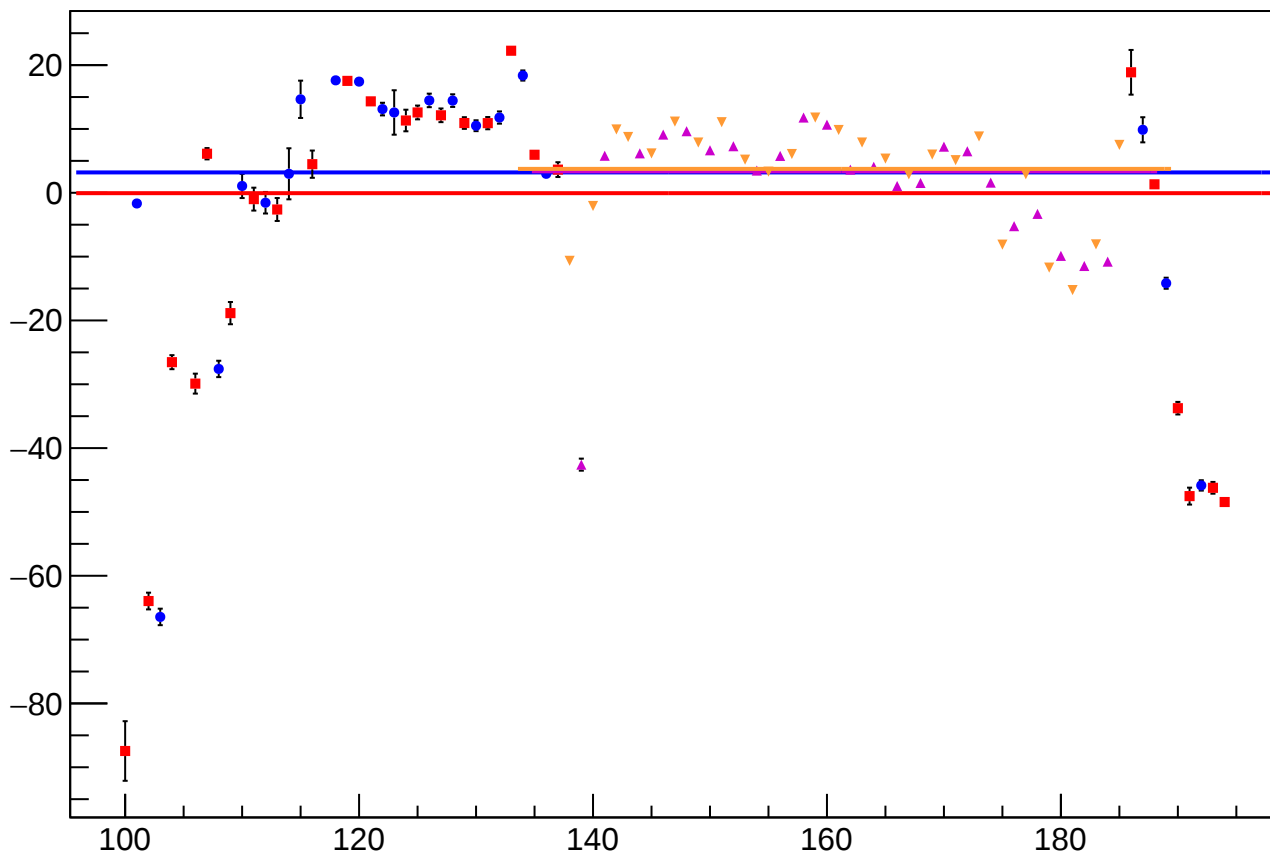
Right: 0.376 ± 0.255 χ^2/NDF : 223.1/8

In: 14.810 ± 0.101 χ^2/NDF : 17106.4/25

Out: 13.688 ± 0.095 χ^2/NDF : 21685.1/30

All: 14.217 ± 0.069 χ^2/NDF : 38857.1/56

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.190 ± 0.204 $\chi^2/\text{NDF}: 9777.5/19$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -0.061 ± 0.184 $\chi^2/\text{NDF}: 17098.1/24$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

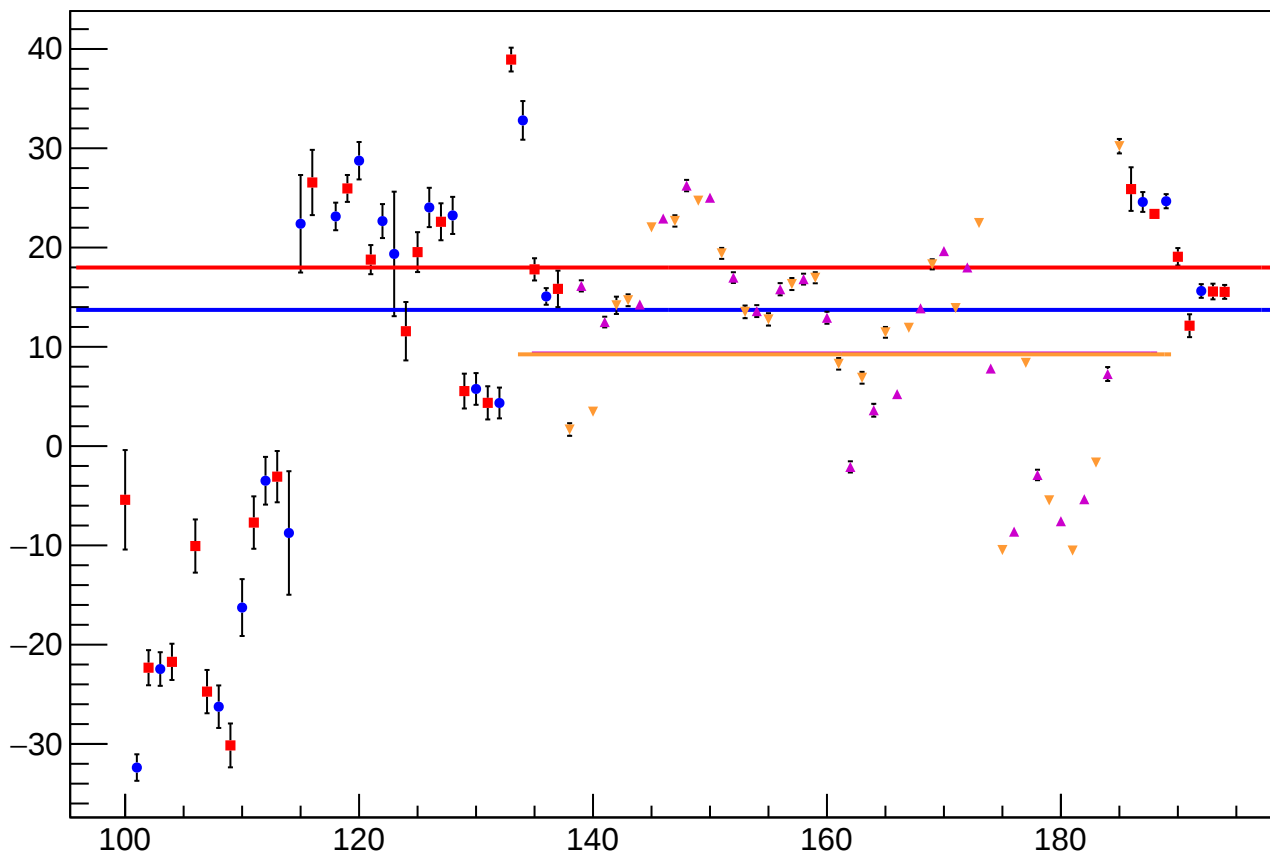
Right: 1.401 ± 0.137 $\chi^2/\text{NDF}: 27015.6/44$

In: 3.341 ± 0.075 $\chi^2/\text{NDF}: 18305.2/42$

Out: 3.158 ± 0.072 $\chi^2/\text{NDF}: 26706.4/49$

All: 3.246 ± 0.052 $\chi^2/\text{NDF}: 45014.6/92$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.720 $\pm$ 0.305 χ^2 /NDF: 2886.7/19

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 17.988 $\pm$ 0.215 χ^2 /NDF: 2975.5/24

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

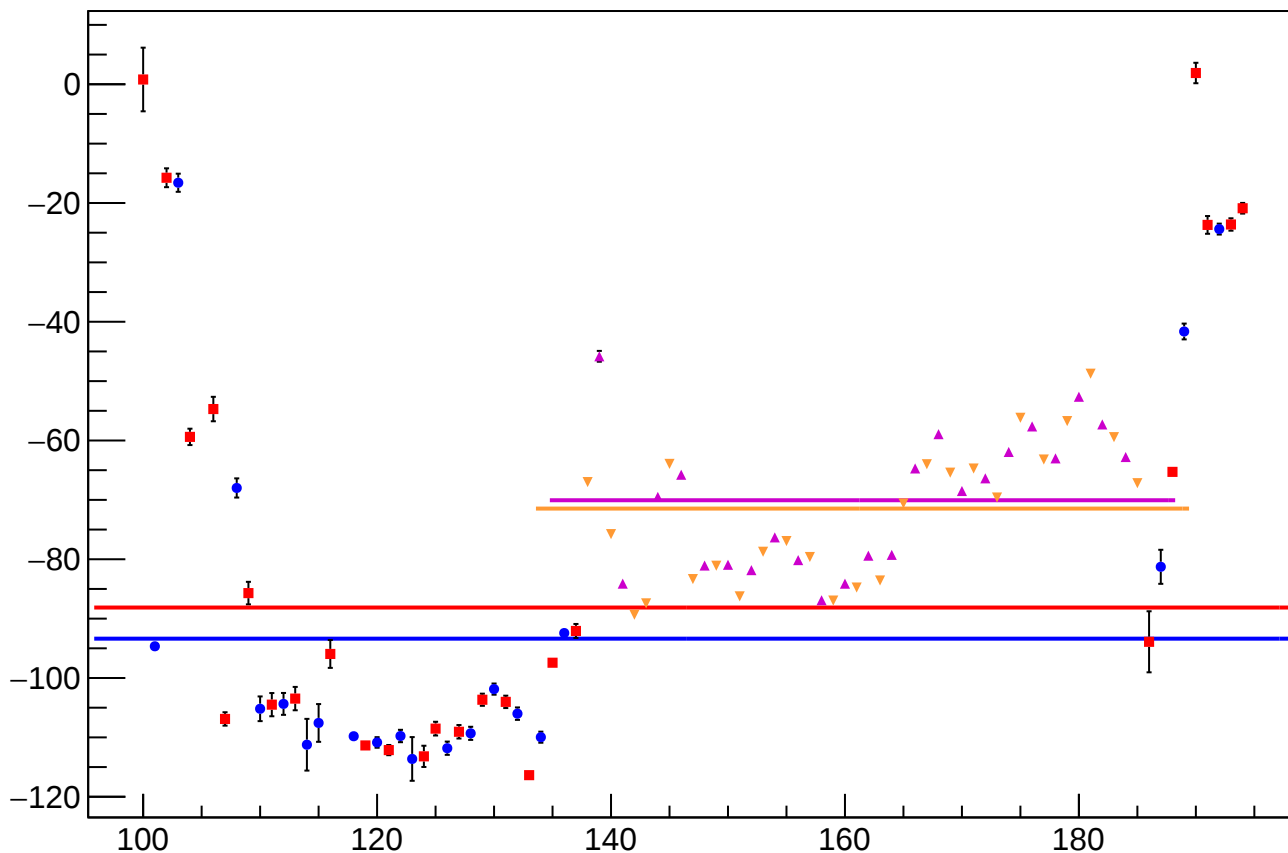
Right: 16.573 $\pm$ 0.175 χ^2 /NDF: 5993.3/44

In: 9.775 $\pm$ 0.097 χ^2 /NDF:15041.7/42

Out: 10.825 $\pm$ 0.091 χ^2 /NDF:17968.4/49

All: 10.333 $\pm$ 0.067 χ^2 /NDF: 33072.1/92

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.374 ± 0.237 $\chi^2/\text{NDF}: 12397.9/19$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -88.131 ± 0.219 $\chi^2/\text{NDF}: 24236.4/24$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

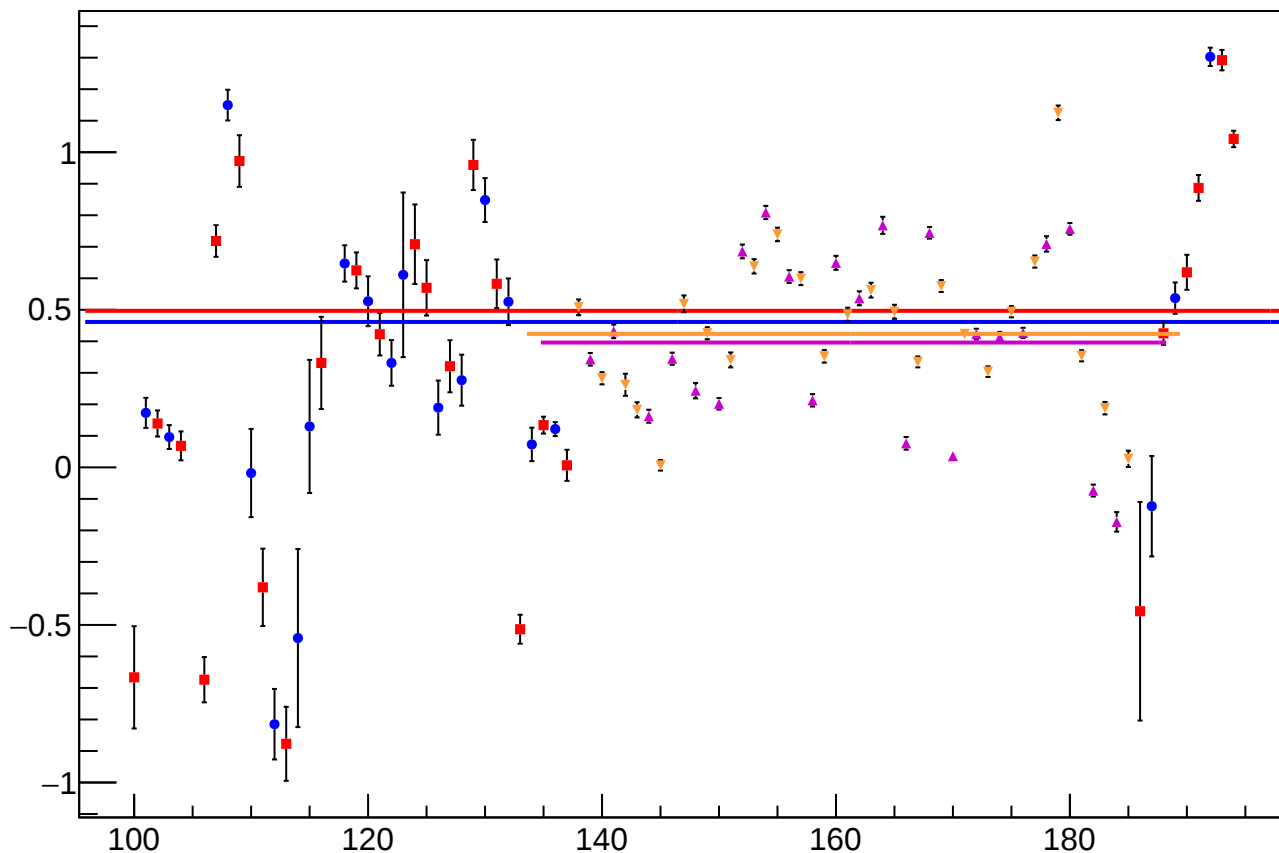
Right: -90.539 ± 0.161 $\chi^2/\text{NDF}: 36897.9/44$

In: -73.088 ± 0.086 $\chi^2/\text{NDF}: 33844.0/42$

Out: -73.843 ± 0.083 $\chi^2/\text{NDF}: 45617.3/49$

All: -73.478 ± 0.059 $\chi^2/\text{NDF}: 79501.7/92$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.461 ± 0.012 χ^2/NDF : 1688.4/19

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.497 ± 0.010 χ^2/NDF : 2682.7/24

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

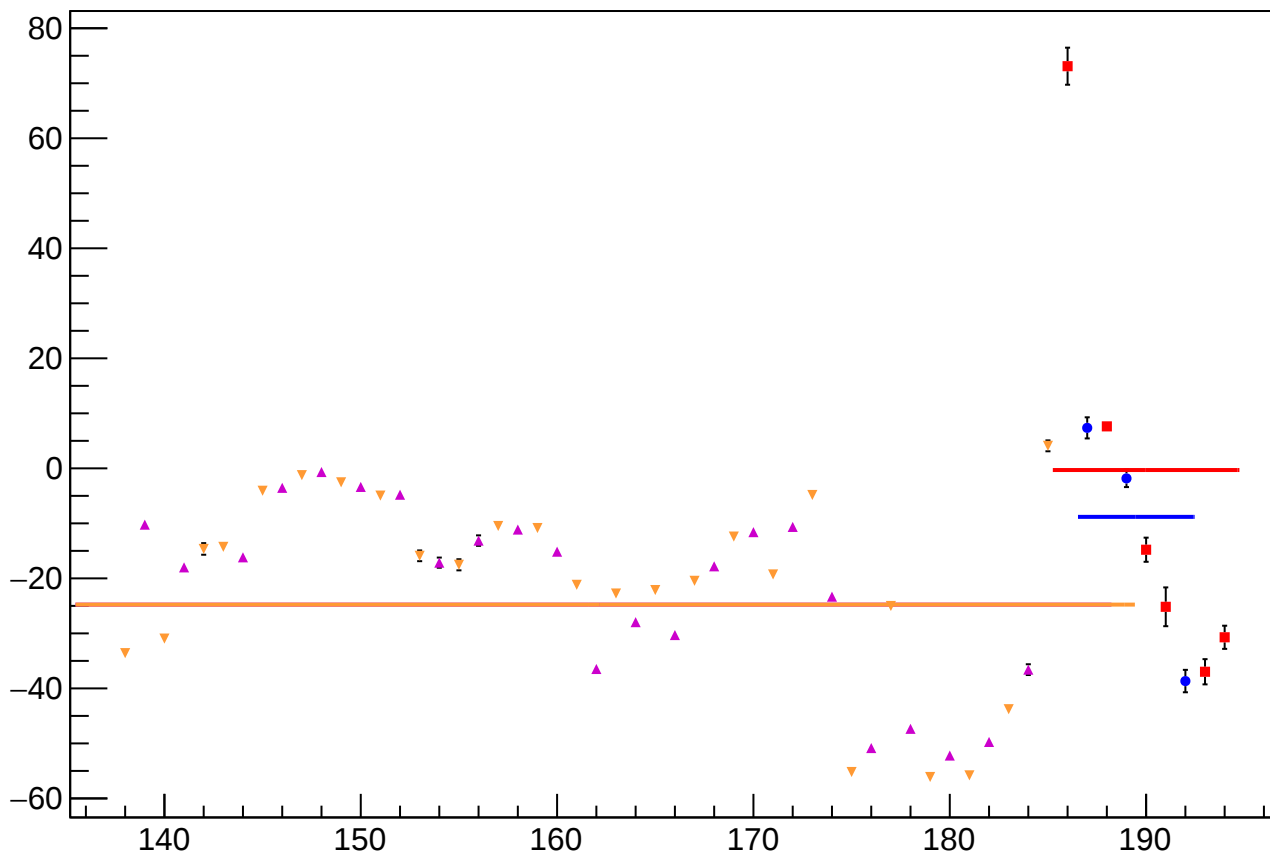
Right: 0.482 ± 0.008 χ^2/NDF : 4376.1/44

In: 0.403 ± 0.004 χ^2/NDF : 5766.8/42

Out: 0.434 ± 0.004 χ^2/NDF : 5612.0/49

All: 0.419 ± 0.003 χ^2/NDF : 11409.8/92

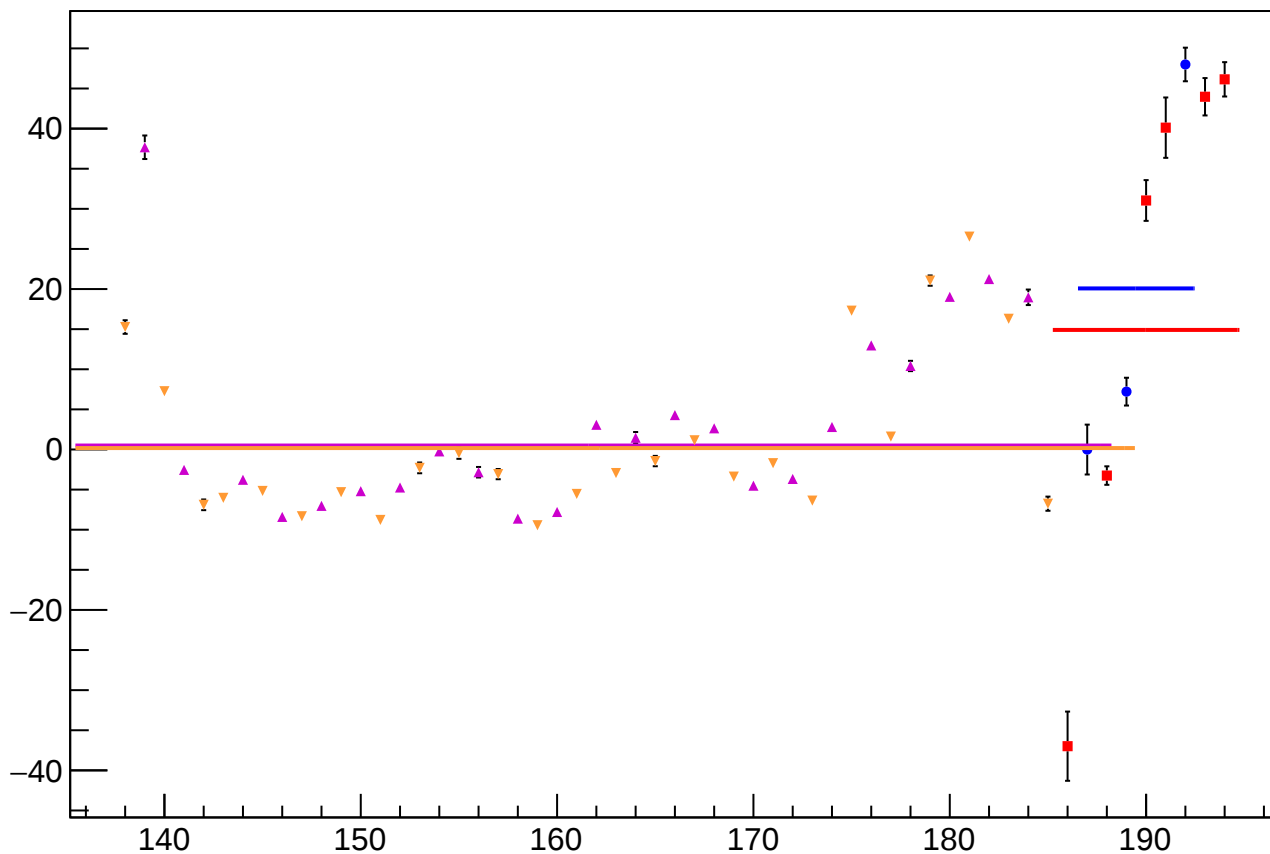
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.818 ± 1.047 χ^2/NDF : 305.1/2
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -0.306 ± 0.652 χ^2/NDF : 1130.9/5
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -2.685 ± 0.553 χ^2/NDF : 1483.7/8
 In: -24.483 ± 0.141 χ^2/NDF : 15340.7/25
 Out: -23.700 ± 0.136 χ^2/NDF : 20795.8/30
 All: -24.077 ± 0.098 χ^2/NDF : 36152.4/56

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.078+/-1.227 χ^2/NDF : 274.6/2

Left Out: 0.177+/-0.109 χ^2/NDF : 8295.6/24

Right Out: 14.905+/-0.835 χ^2/NDF : 846.7/5

Left In: 0.493+/-0.112 χ^2/NDF : 6555.4/22

Left: 0.330+/-0.078 χ^2/NDF : 14855.0/47

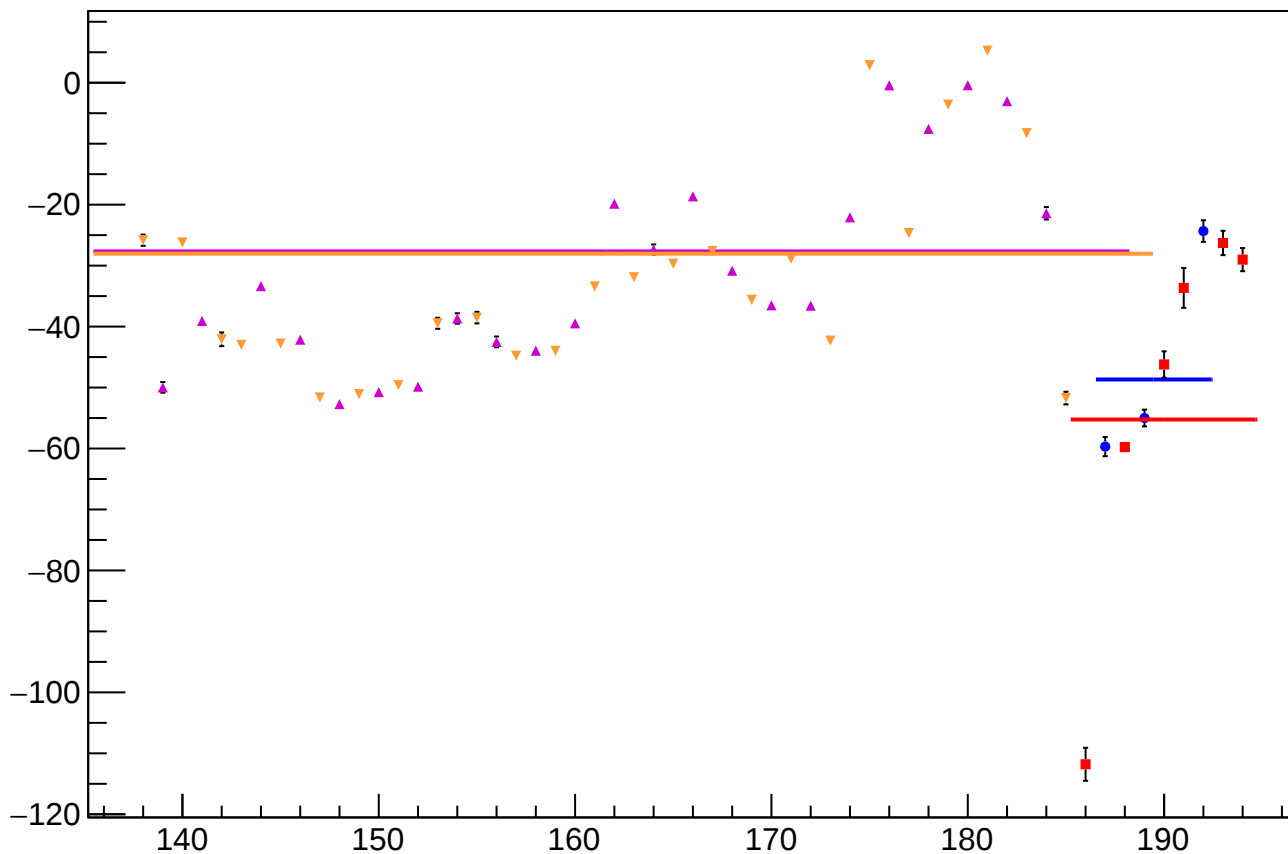
Right: 16.542+/-0.690 χ^2/NDF : 1133.4/8

In: 0.655+/-0.112 χ^2/NDF : 7082.7/25

Out: 0.422+/-0.108 χ^2/NDF : 9448.3/30

All: 0.534+/-0.077 χ^2/NDF : 16533.2/56

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.676 $\pm$ 0.895 χ^2 /NDF: 258.5/2

Left Out: -28.050 $\pm$ 0.140 χ^2 /NDF:17144.5/24

Right Out: -55.244 $\pm$ 0.546 χ^2 /NDF: 948.0/5

Left In: -27.666 $\pm$ 0.142 χ^2 /NDF:15003.2/22

Left: -27.862 $\pm$ 0.100 χ^2 /NDF: 32151.3/47

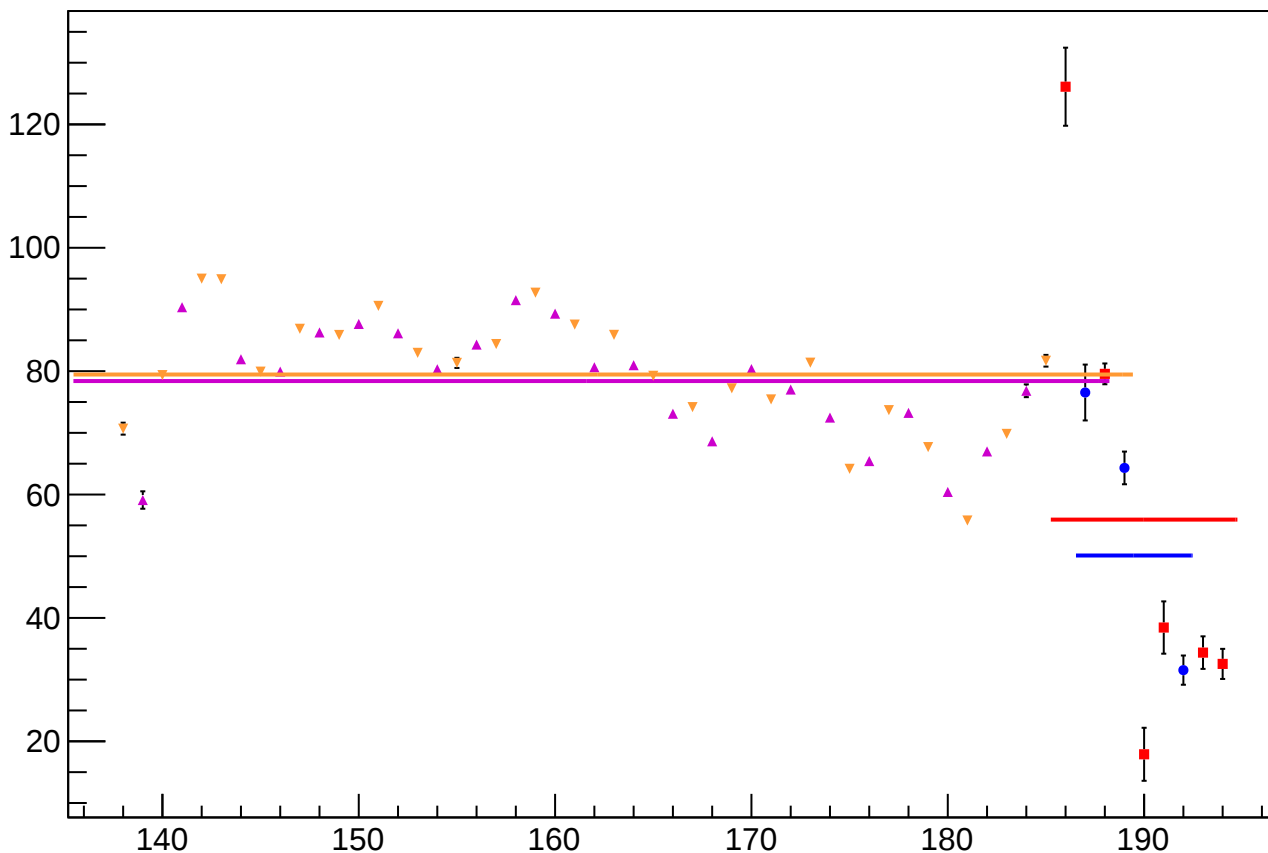
Right: -53.464 $\pm$ 0.466 χ^2 /NDF: 1245.8/8

In: -28.185 $\pm$ 0.141 χ^2 /NDF:15799.0/25

Out: -29.726 $\pm$ 0.136 χ^2 /NDF:20422.6/30

All: -28.985 $\pm$ 0.098 χ^2 /NDF: 36283.8/56

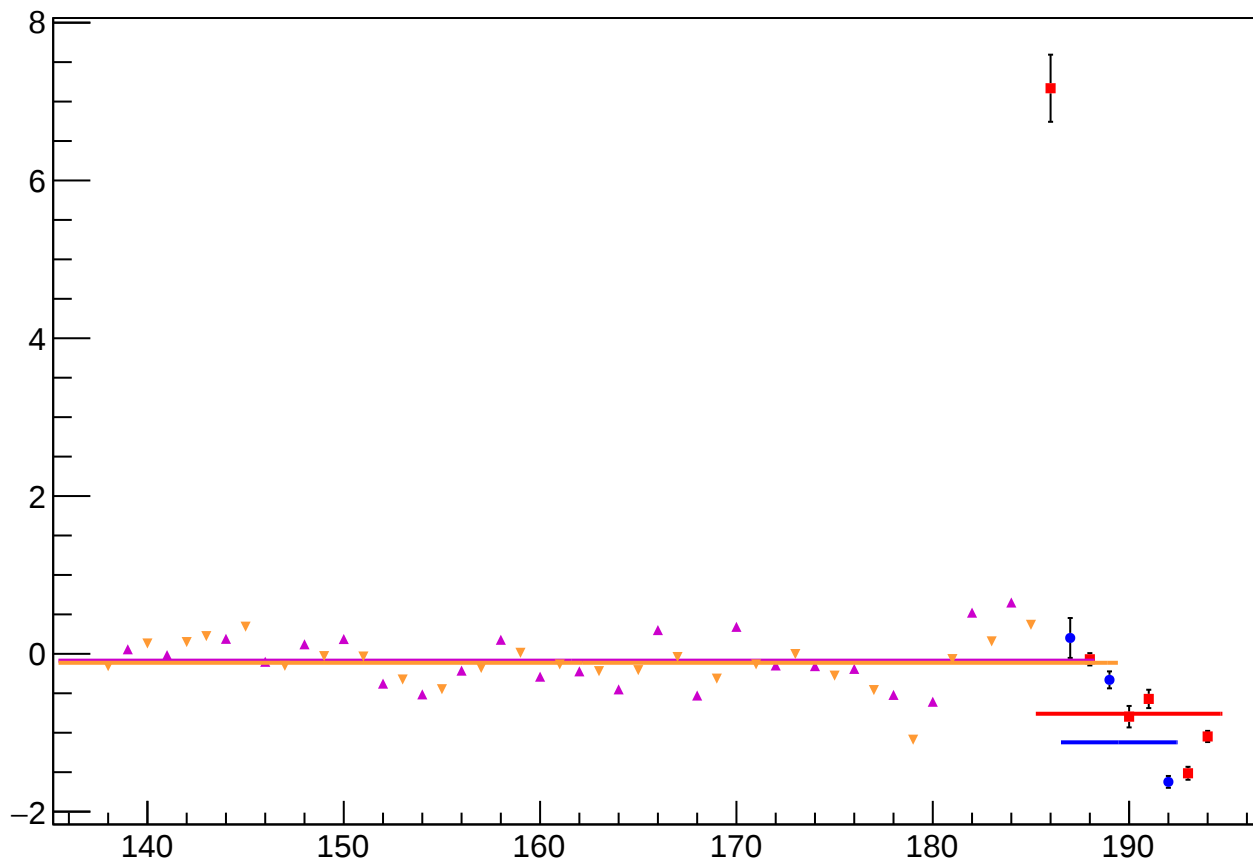
reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 50.118 $\pm$ 1.645 χ^2 /NDF: 124.3/2
 Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24
 Right Out: 55.937 $\pm$ 1.119 χ^2 /NDF: 573.3/5
 Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47
 Right: 54.096 $\pm$ 0.925 χ^2 /NDF: 706.1/8
 In: 78.229 $\pm$ 0.126 χ^2 /NDF: 5125.2/25
 Out: 79.174 $\pm$ 0.122 χ^2 /NDF: 7086.7/30
 All: 78.717 $\pm$ 0.088 χ^2 /NDF: 12240.7/56

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.122+/-0.060 χ^2/NDF : 126.4/2

Left Out: -0.113+/-0.006 χ^2/NDF : 2303.1/24

Right Out: -0.759+/-0.039 χ^2/NDF : 530.0/5

Left In: -0.086+/-0.006 χ^2/NDF : 3132.1/22

Left: -0.100+/-0.004 χ^2/NDF : 5446.4/47

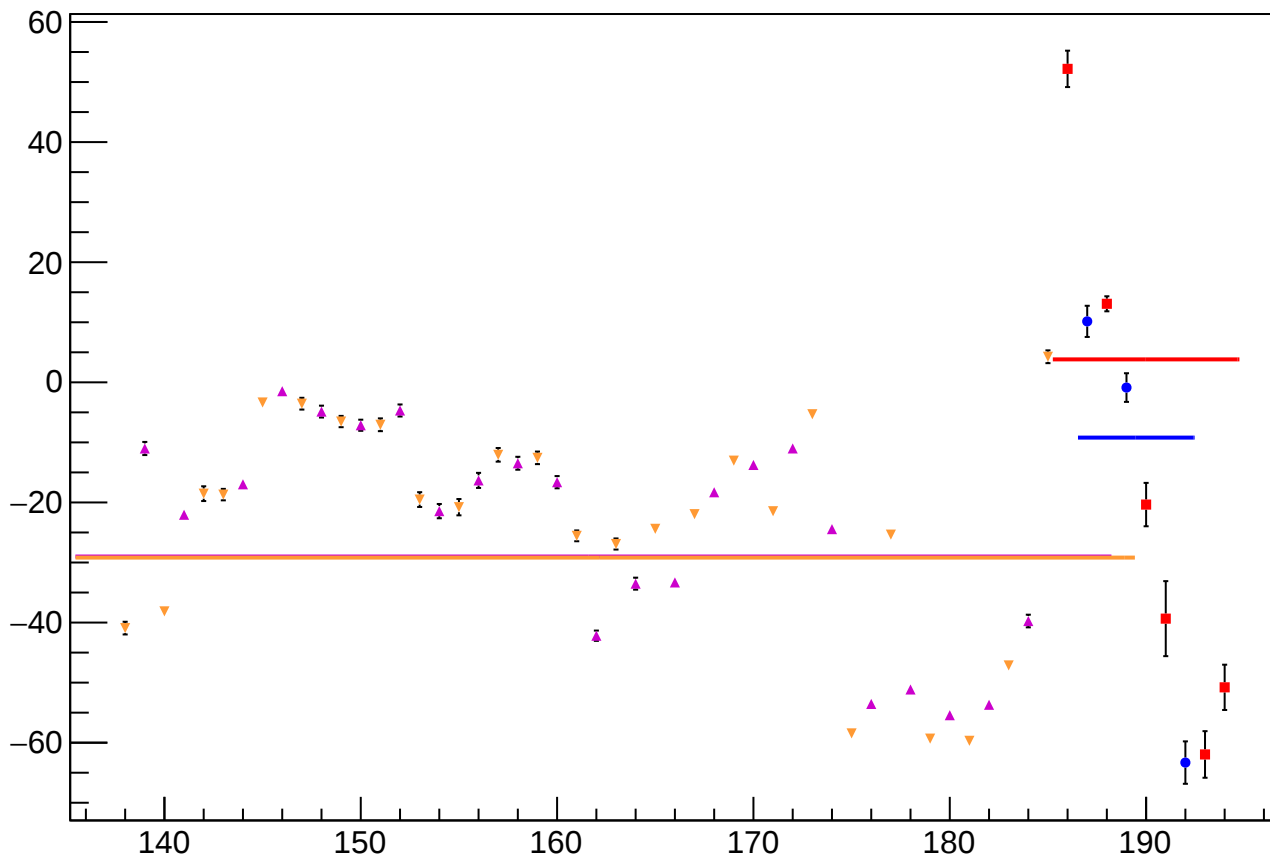
Right: -0.869+/-0.033 χ^2/NDF : 682.0/8

In: -0.096+/-0.006 χ^2/NDF : 3556.1/25

Out: -0.127+/-0.006 χ^2/NDF : 3097.4/30

All: -0.112+/-0.004 χ^2/NDF : 6668.1/56

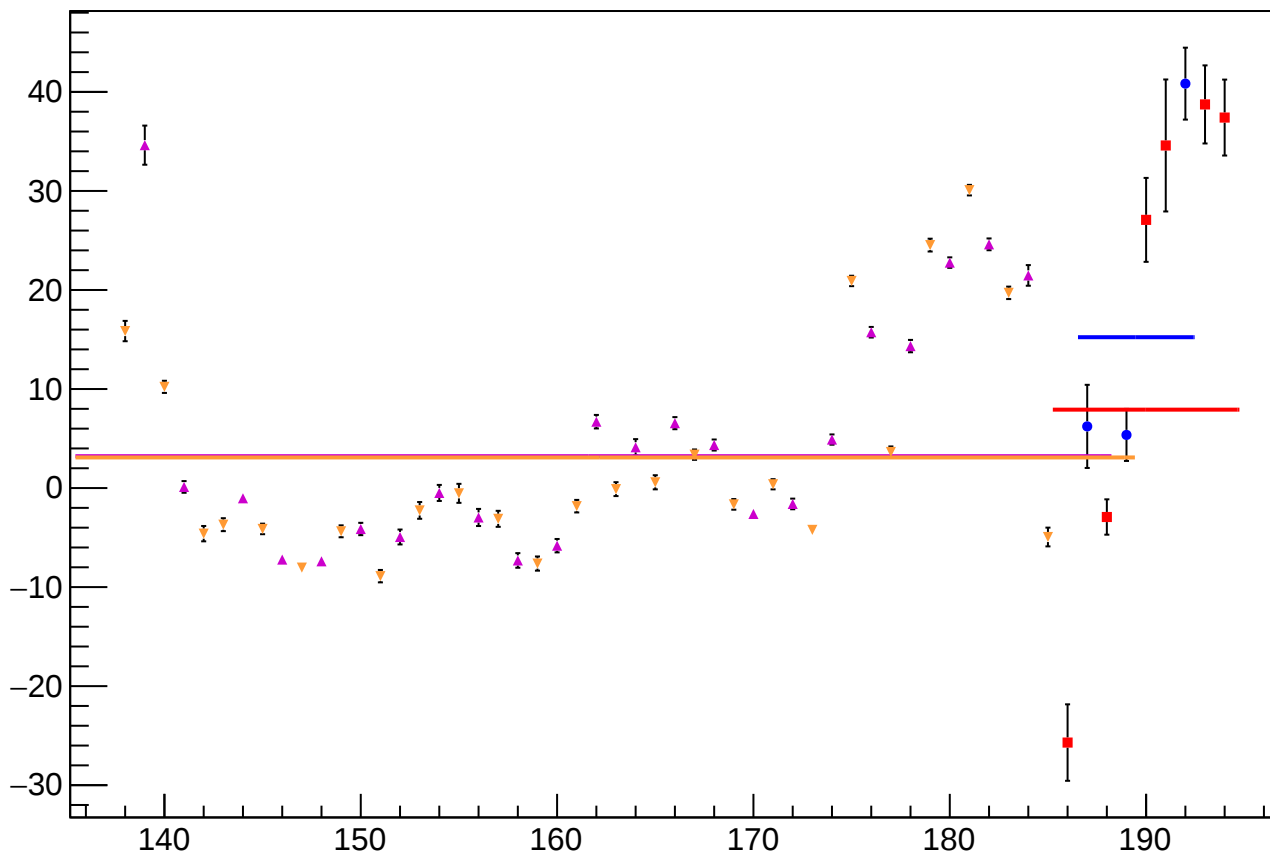
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.202 ± 1.573 χ^2/NDF : 302.4/2
 Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24
 Right Out: 3.821 ± 1.007 χ^2/NDF : 899.3/5
 Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47
 Right: 0.033 ± 0.848 χ^2/NDF : 1250.4/8
 In: -28.800 ± 0.159 χ^2/NDF : 13876.1/25
 Out: -28.400 ± 0.155 χ^2/NDF : 18859.7/30
 All: -28.595 ± 0.111 χ^2/NDF : 32739.0/56

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.232 $\pm$ 1.898 χ^2 /NDF: 68.4/2

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF: 8084.1/24

Right Out: 7.918 $\pm$ 1.300 χ^2 /NDF: 269.5/5

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF: 6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

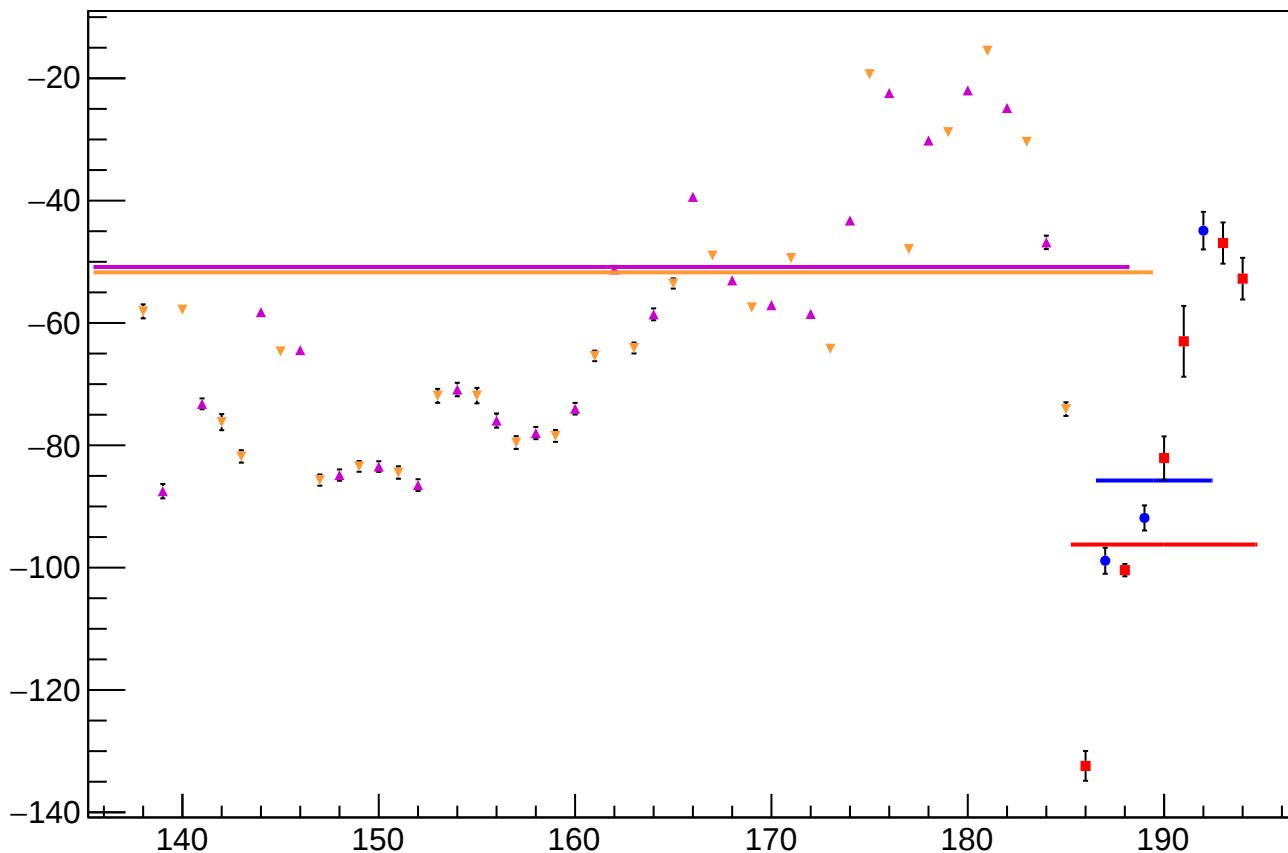
Right: 10.253 $\pm$ 1.073 χ^2 /NDF: 348.0/8

In: 3.275 $\pm$ 0.127 χ^2 /NDF: 6345.9/25

Out: 3.134 $\pm$ 0.124 χ^2 /NDF: 8367.2/30

All: 3.203 $\pm$ 0.089 χ^2 /NDF: 14713.7/56

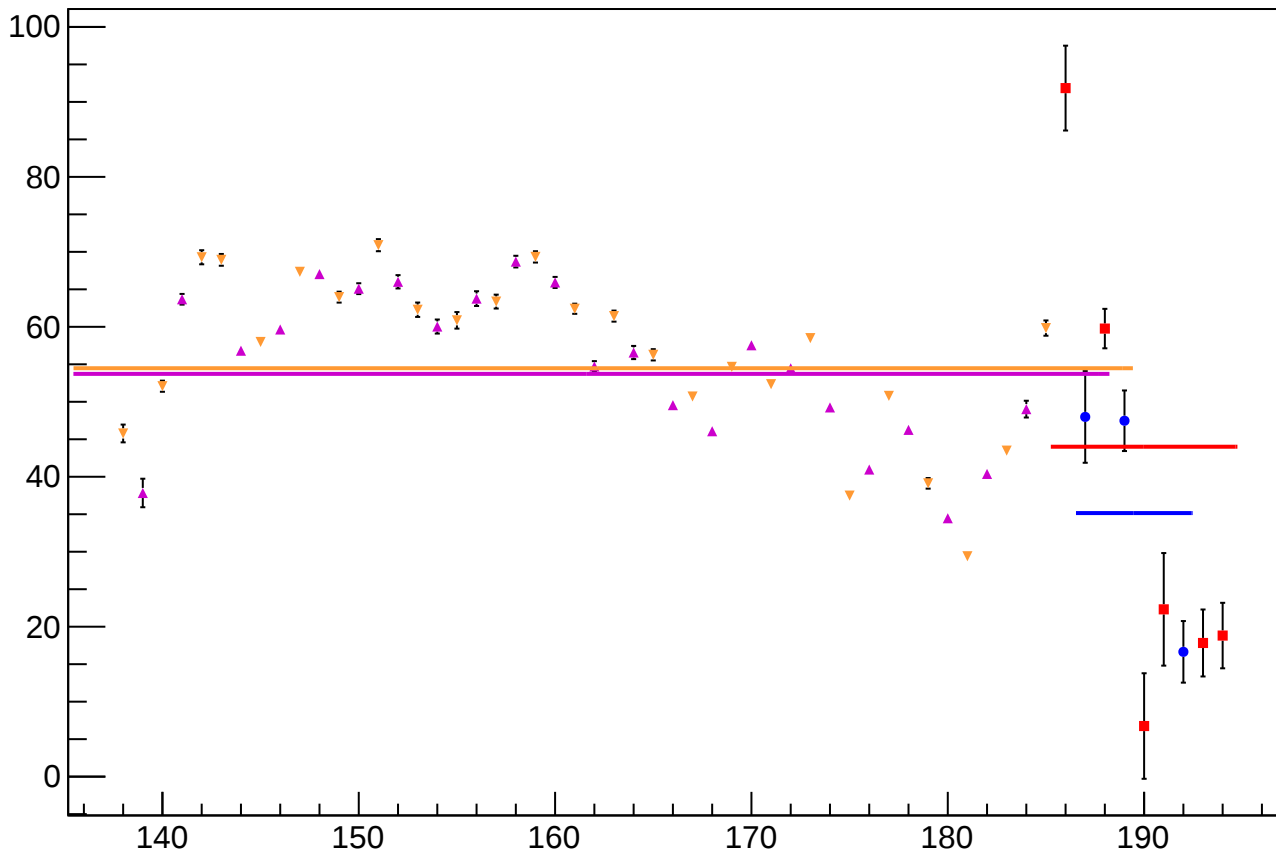
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -85.759 ± 1.333 $\chi^2/\text{NDF}: 223.6/2$
 Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$
 Right Out: -96.224 ± 0.836 $\chi^2/\text{NDF}: 663.4/5$
 Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$
 Right: -93.270 ± 0.708 $\chi^2/\text{NDF}: 931.3/8$
 In: -51.341 ± 0.159 $\chi^2/\text{NDF}: 18172.0/25$
 Out: -53.262 ± 0.155 $\chi^2/\text{NDF}: 22937.3/30$
 All: -52.325 ± 0.111 $\chi^2/\text{NDF}: 41184.2/56$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 35.156+/-2.606 χ^2/NDF : 34.0/2

Left Out: 54.476+/-0.140 χ^2/NDF : 6266.9/24

Right Out: 44.007+/-1.779 χ^2/NDF : 211.3/5

Left In: 53.724+/-0.143 χ^2/NDF : 4585.7/22

Left: 54.107+/-0.100 χ^2/NDF : 10866.7/47

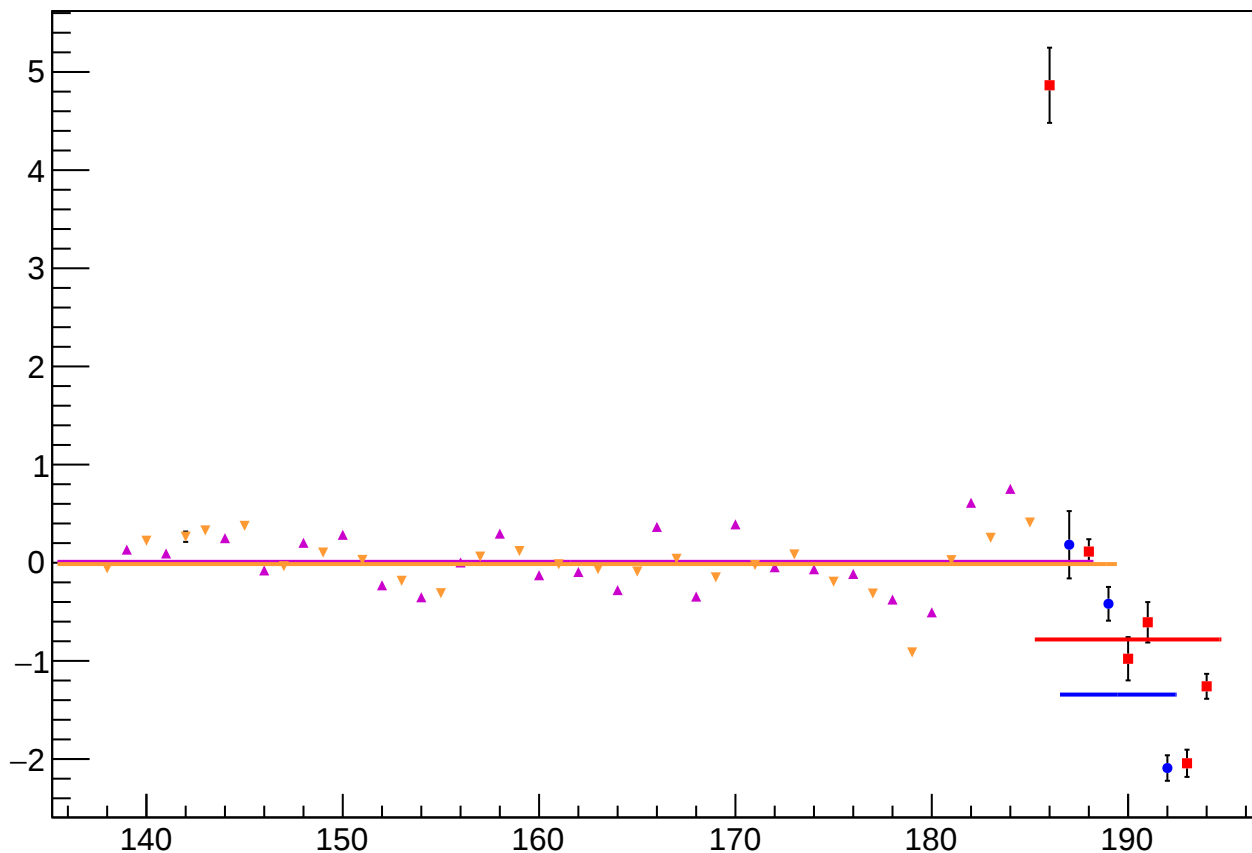
Right: 41.194+/-1.469 χ^2/NDF : 253.1/8

In: 53.668+/-0.143 χ^2/NDF : 4670.3/25

Out: 54.411+/-0.140 χ^2/NDF : 6512.6/30

All: 54.048+/-0.100 χ^2/NDF : 11196.8/56

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.343+/-0.099 χ^2/NDF : 82.0/2

Left Out: -0.014+/-0.006 χ^2/NDF :1654.7/24

Right Out: -0.782+/-0.066 χ^2/NDF : 366.4/5

Left In: 0.009+/-0.007 χ^2/NDF :2220.5/22

Left: -0.003+/-0.005 χ^2/NDF : 3881.4/47

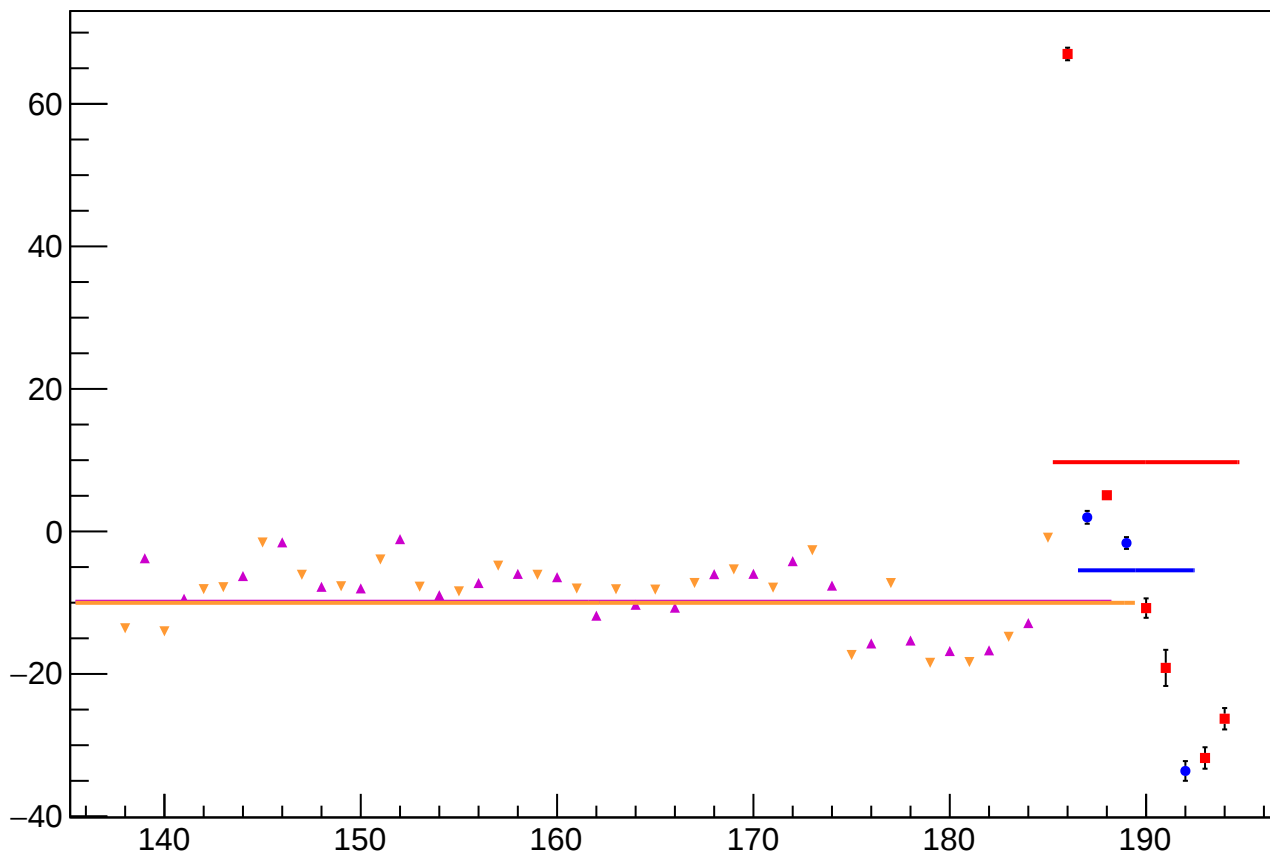
Right: -0.955+/-0.055 χ^2/NDF : 470.5/8

In: 0.003+/-0.007 χ^2/NDF :2487.5/25

Out: -0.021+/-0.006 χ^2/NDF :2154.5/30

All: -0.009+/-0.005 χ^2/NDF : 4648.8/56

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



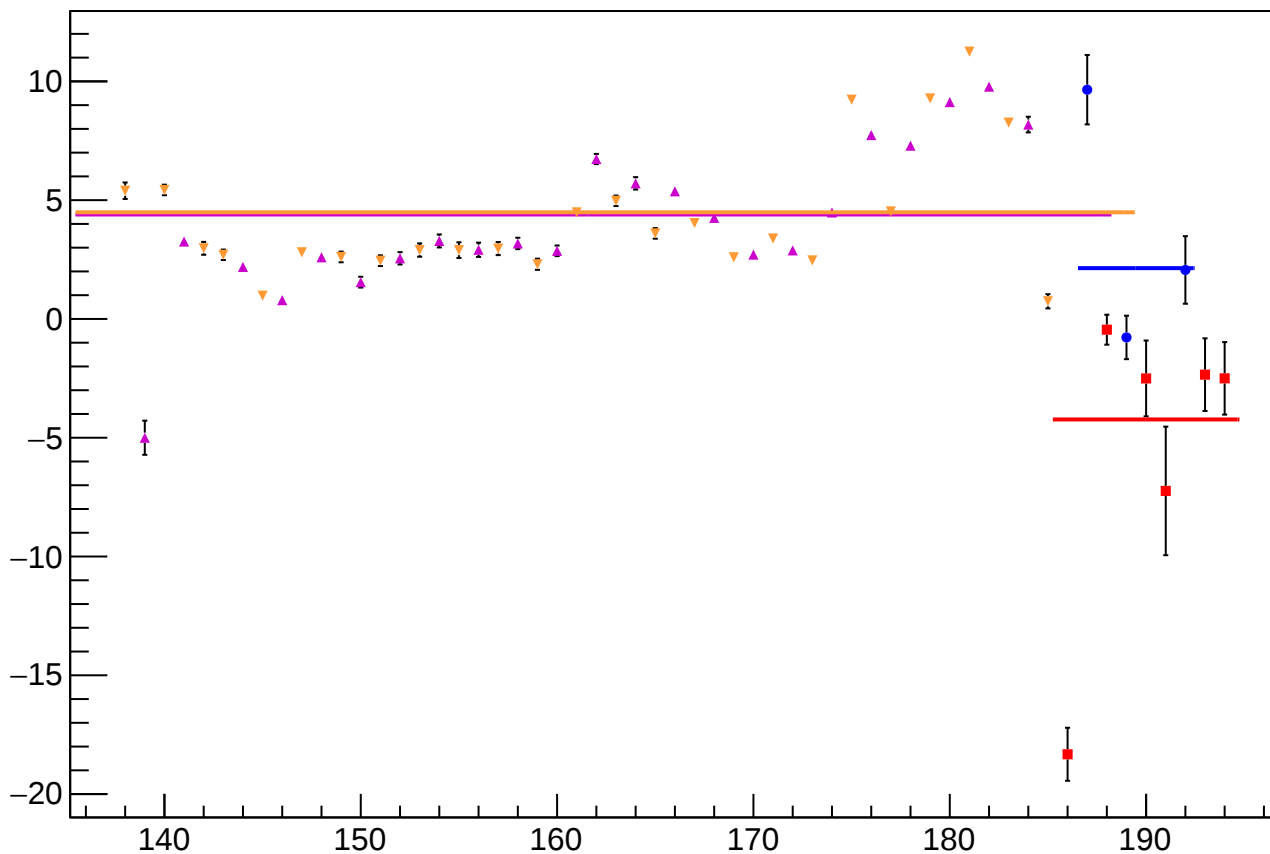
Right In: -5.457 ± 0.558 $\chi^2/\text{NDF}: 504.1/2$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: 9.719 ± 0.356 $\chi^2/\text{NDF}: 5990.2/5$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: 5.331 ± 0.300 $\chi^2/\text{NDF}: 7019.9/8$

In: -9.828 ± 0.051 $\chi^2/\text{NDF}: 9911.4/25$
 Out: -9.625 ± 0.050 $\chi^2/\text{NDF}: 21555.9/30$

All: -9.725 ± 0.036 $\chi^2/\text{NDF}: 31475.3/56$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.138 $\pm$ 0.681 χ^2 /NDF: 36.6/2

Left Out: 4.489 $\pm$ 0.041 χ^2 /NDF: 4832.3/24

Right Out: -4.231 $\pm$ 0.461 χ^2 /NDF: 200.5/5

Left In: 4.396 $\pm$ 0.041 χ^2 /NDF: 4230.4/22

Left: 4.443 $\pm$ 0.029 χ^2 /NDF: 9065.3/47

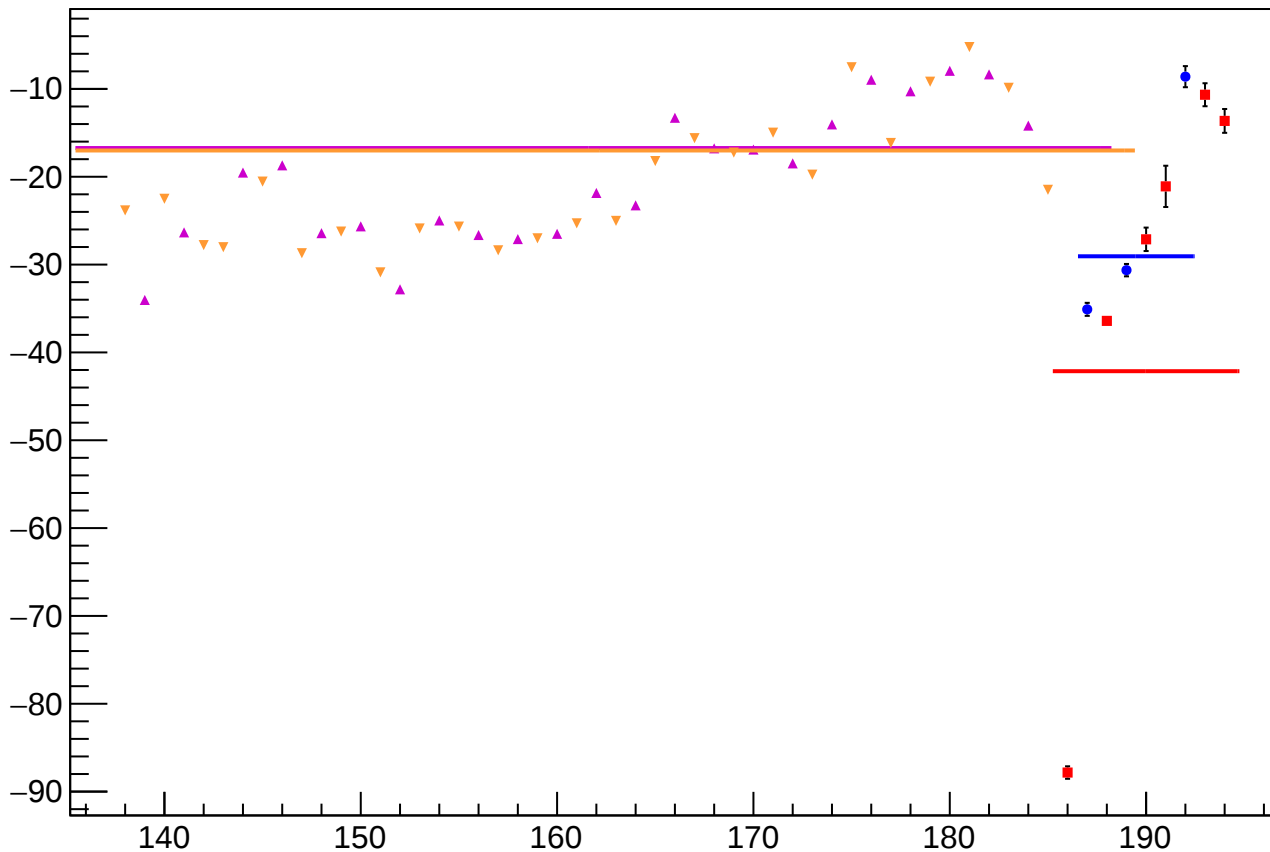
Right: -2.227 $\pm$ 0.382 χ^2 /NDF: 297.2/8

In: 4.388 $\pm$ 0.041 χ^2 /NDF: 4278.0/25

Out: 4.421 $\pm$ 0.041 χ^2 /NDF: 5387.6/30

All: 4.405 $\pm$ 0.029 χ^2 /NDF: 9665.9/56

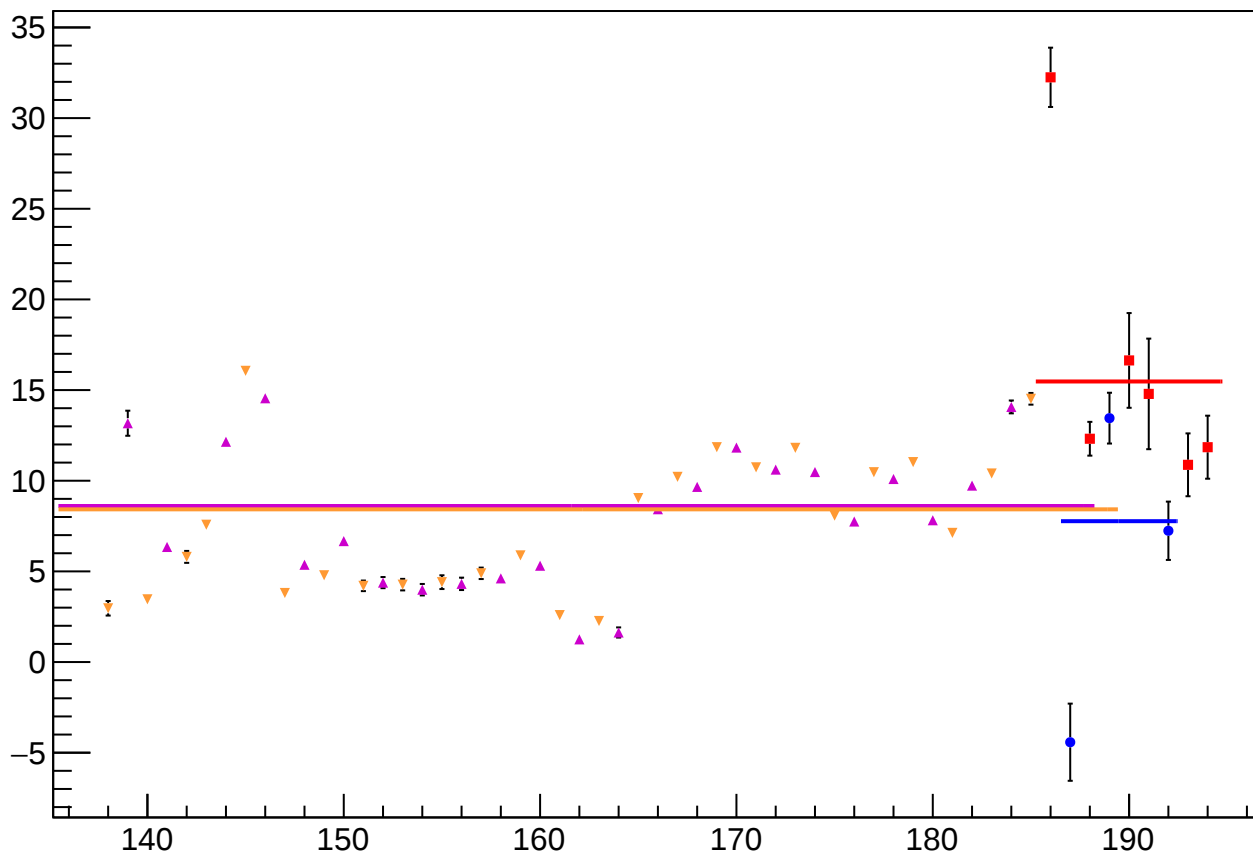
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.055 $\pm$ 0.471 χ^2 /NDF: 360.9/2
 Left Out: -17.008 $\pm$ 0.051 χ^2 /NDF:22094.7/24
 Right Out: -42.137 $\pm$ 0.294 χ^2 /NDF: 5611.5/5
 Left In: -16.732 $\pm$ 0.052 χ^2 /NDF:18777.2/22

Left: -16.871 $\pm$ 0.036 χ^2 /NDF: 40886.5/47
 Right: -38.468 $\pm$ 0.249 χ^2 /NDF: 6528.5/8
 In: -16.878 $\pm$ 0.051 χ^2 /NDF:19815.7/25
 Out: -17.745 $\pm$ 0.050 χ^2 /NDF:34807.6/30
 All: -17.319 $\pm$ 0.036 χ^2 /NDF: 54769.4/56

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.769 $\pm$ 0.946 χ^2 /NDF: 49.4/2

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 15.474 $\pm$ 0.640 χ^2 /NDF: 128.4/5

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF: 5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

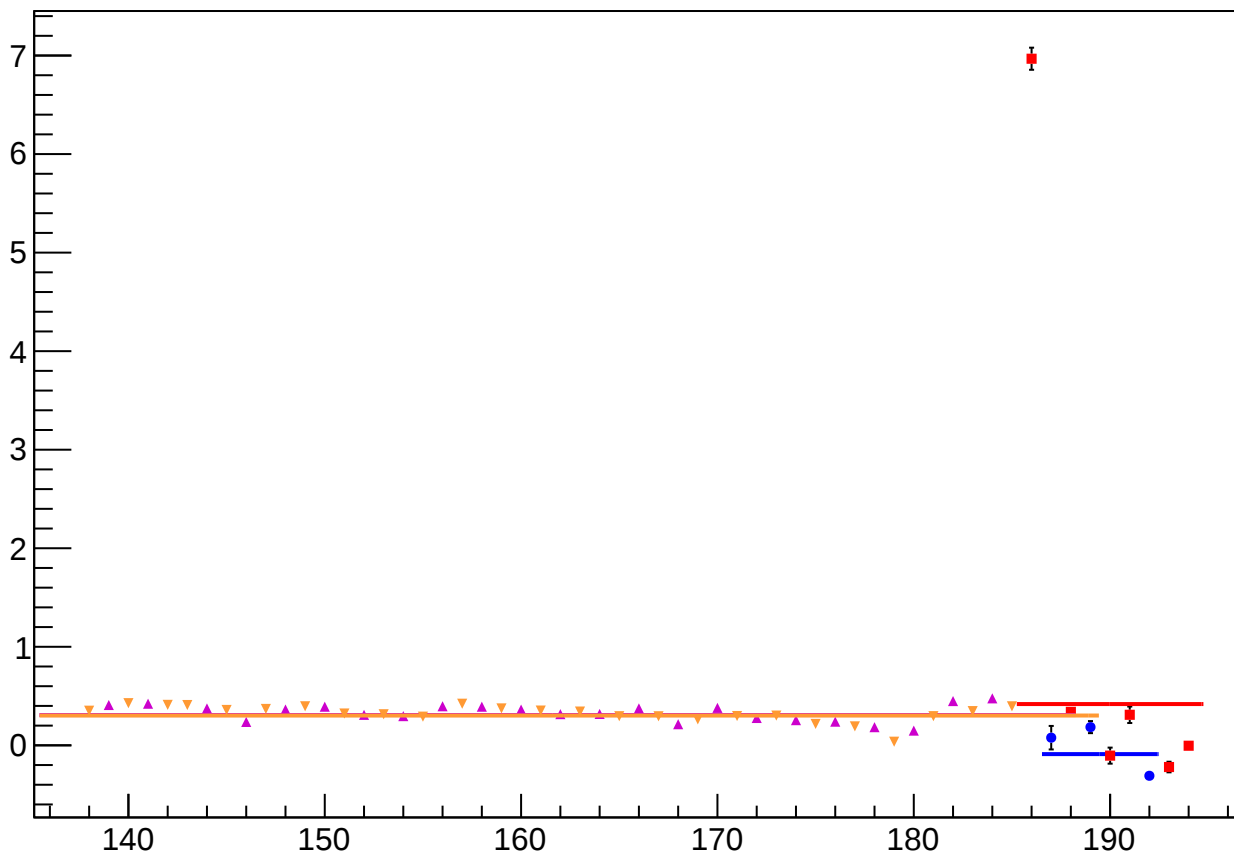
Right: 13.057 $\pm$ 0.530 χ^2 /NDF: 223.3/8

In: 8.604 $\pm$ 0.046 χ^2 /NDF: 5554.4/25

Out: 8.458 $\pm$ 0.045 χ^2 /NDF: 6719.4/30

All: 8.530 $\pm$ 0.032 χ^2 /NDF: 12279.0/56

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.089+/-0.037 χ^2/NDF : 40.7/2

Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24

Right Out: 0.419+/-0.025 χ^2/NDF : 3664.6/5

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

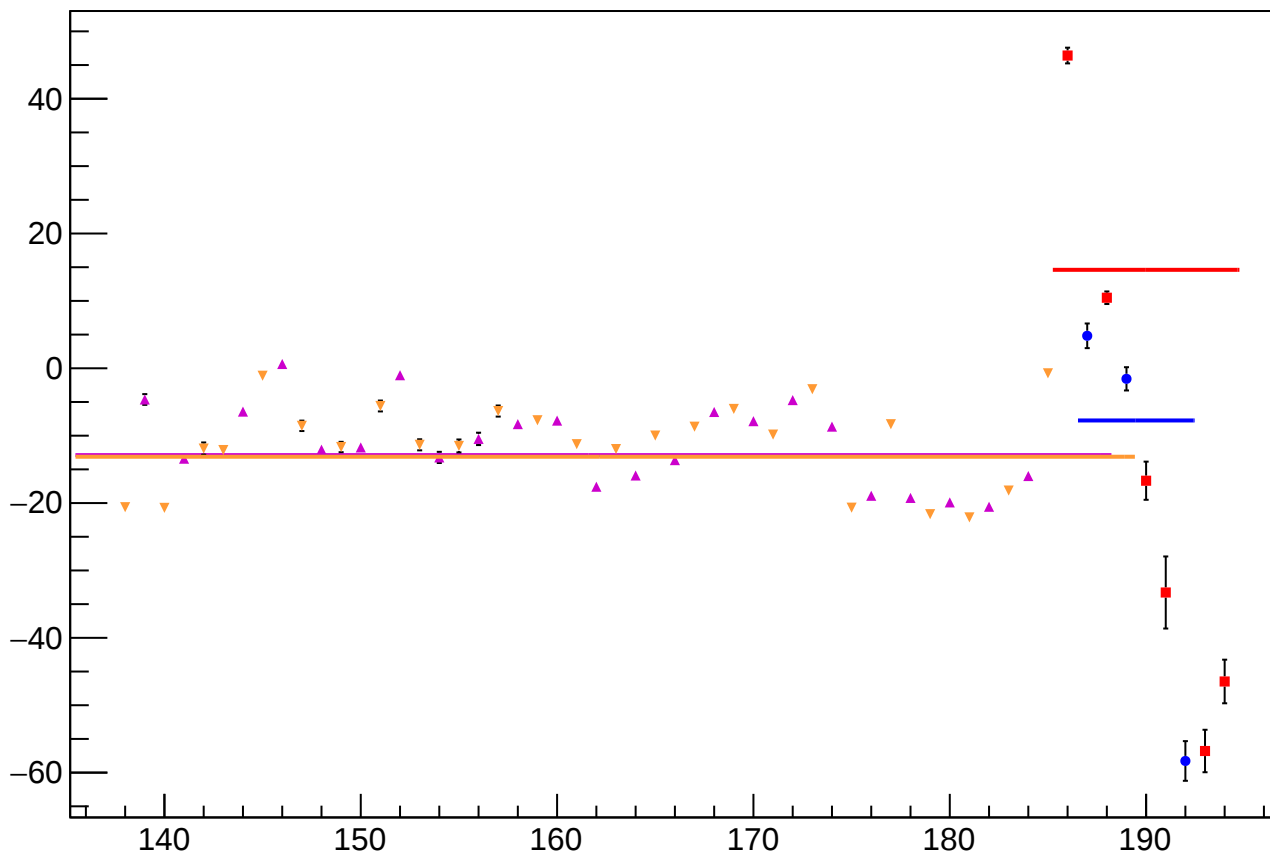
Right: 0.261+/-0.021 χ^2/NDF : 3834.0/8

In: 0.306+/-0.002 χ^2/NDF :1853.5/25

Out: 0.303+/-0.002 χ^2/NDF :5277.1/30

All: 0.305+/-0.001 χ^2/NDF : 7131.5/56

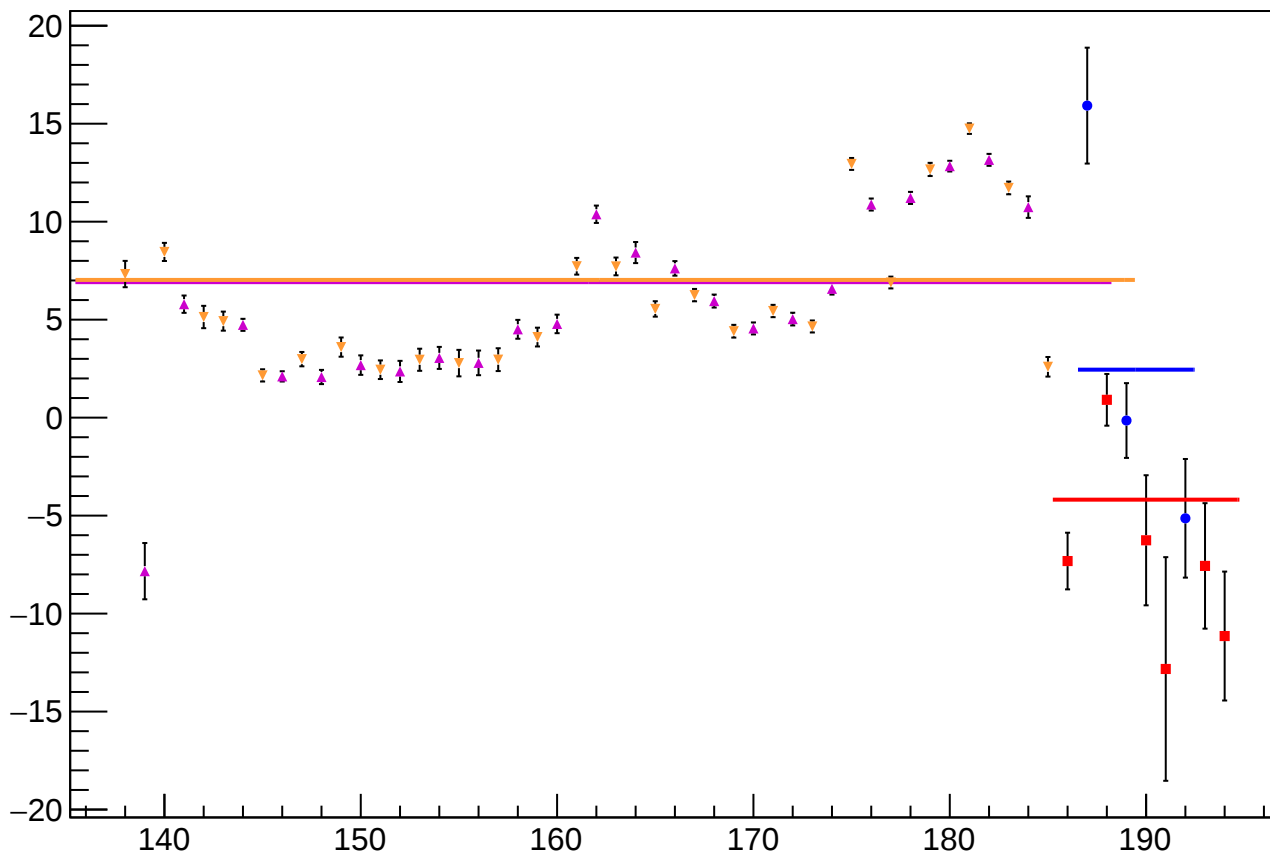
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.742 ± 1.155 χ^2/NDF : 354.6/2
 Left Out: -13.125 ± 0.094 χ^2/NDF : 5977.6/24
 Right Out: 14.611 ± 0.668 χ^2/NDF : 1835.2/5
 Left In: -12.885 ± 0.095 χ^2/NDF : 4776.2/22

Left: -13.007 ± 0.067 χ^2/NDF : 10757.0/47
 Right: 9.007 ± 0.578 χ^2/NDF : 2470.6/8
 In: -12.851 ± 0.095 χ^2/NDF : 5150.4/25
 Out: -12.590 ± 0.093 χ^2/NDF : 9504.1/30
 All: -12.718 ± 0.066 χ^2/NDF : 14658.4/56

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.448 $\pm$ 1.417 χ^2 /NDF: 28.9/2

Left Out: 7.028 $\pm$ 0.077 χ^2 /NDF:2665.3/24

Right Out: -4.186 $\pm$ 0.856 χ^2 /NDF: 27.9/5

Left In: 6.914 $\pm$ 0.078 χ^2 /NDF:2428.2/22

Left: 6.971 $\pm$ 0.055 χ^2 /NDF: 5094.6/47

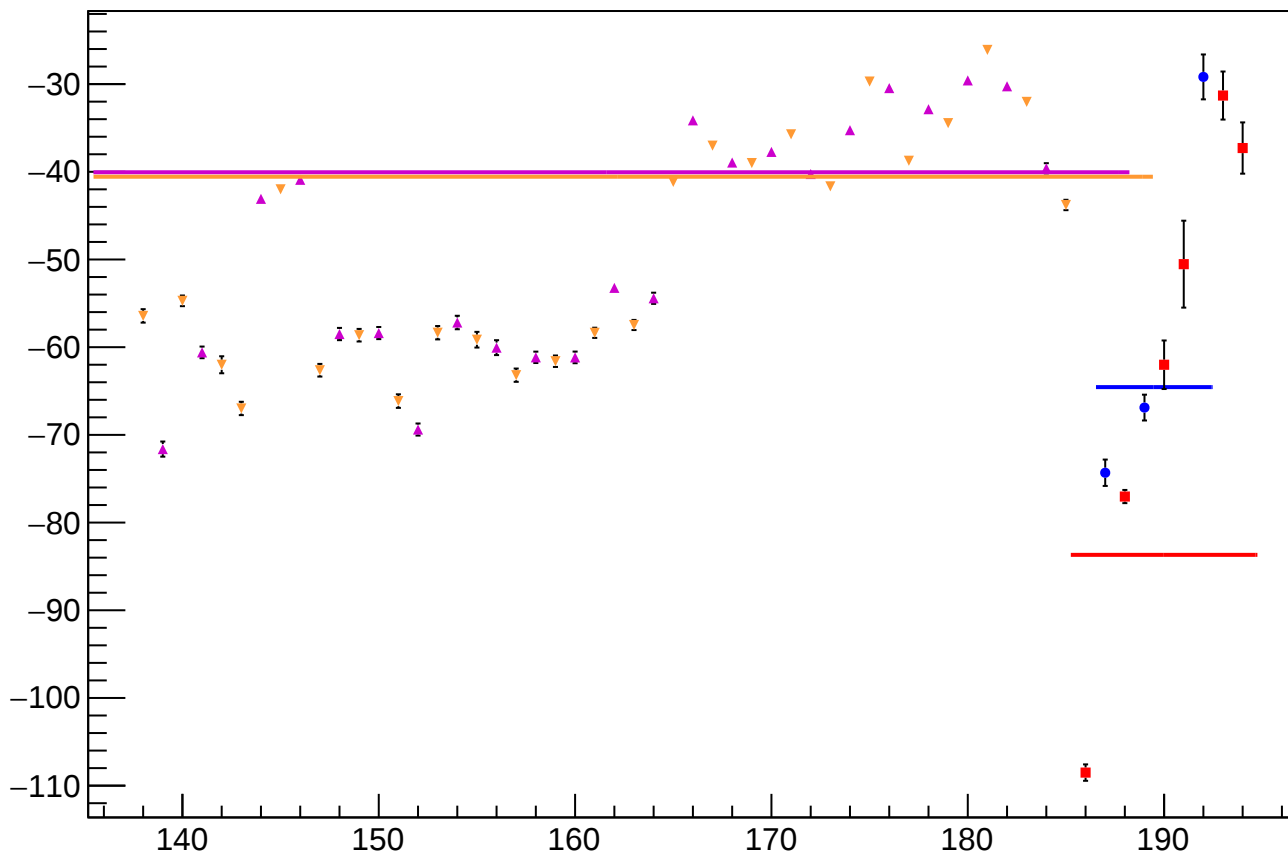
Right: -2.411 $\pm$ 0.733 χ^2 /NDF: 72.8/8

In: 6.901 $\pm$ 0.078 χ^2 /NDF:2467.0/25

Out: 6.937 $\pm$ 0.077 χ^2 /NDF:2863.4/30

All: 6.919 $\pm$ 0.055 χ^2 /NDF: 5330.5/56

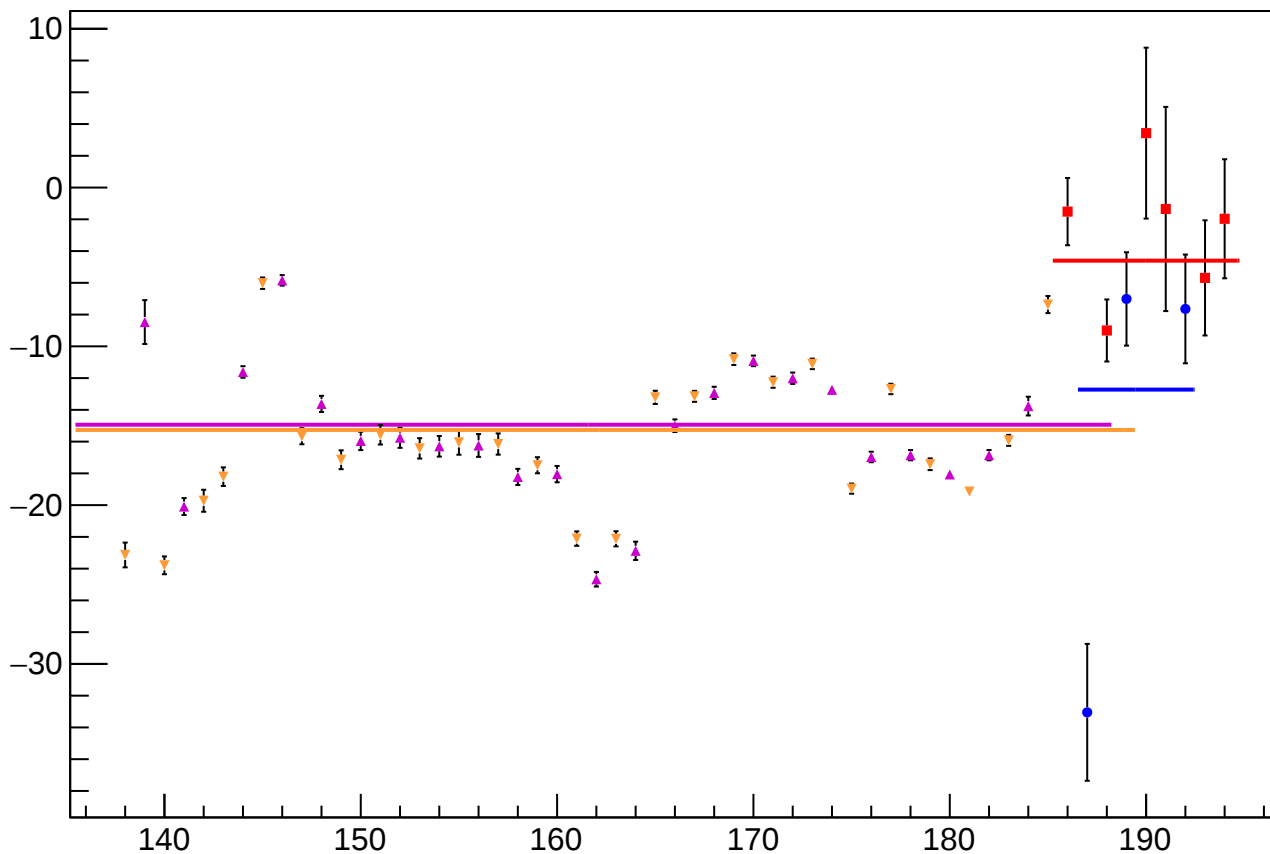
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.553 ± 0.973 χ^2/NDF : 235.7/2
 Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24
 Right Out: -83.681 ± 0.548 χ^2/NDF : 1506.1/5
 Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47
 Right: -79.078 ± 0.477 χ^2/NDF : 2035.4/8
 In: -40.288 ± 0.095 χ^2/NDF : 14791.2/25
 Out: -41.815 ± 0.093 χ^2/NDF : 23162.9/30
 All: -41.067 ± 0.067 χ^2/NDF : 38085.4/56

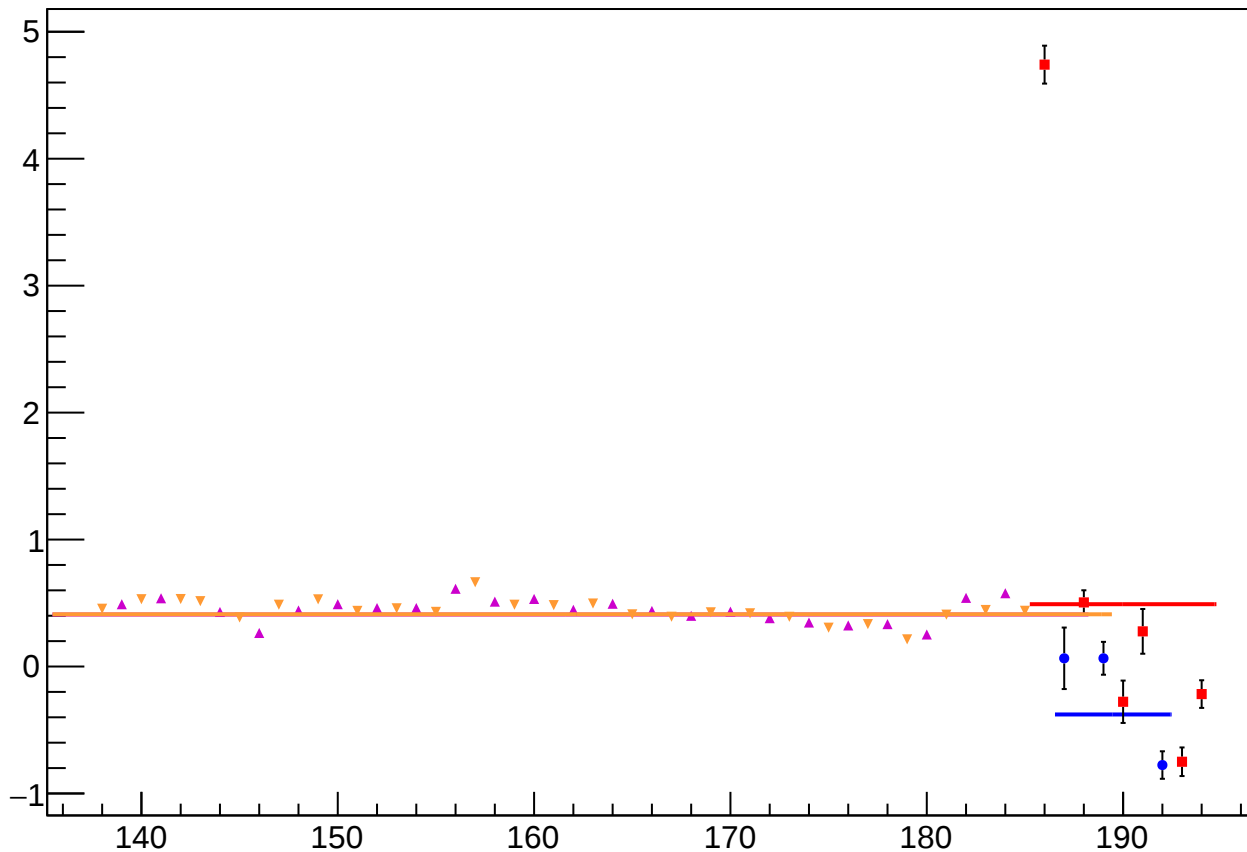
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.724 ± 1.981 χ^2/NDF : 28.2/2
 Left Out: -15.266 ± 0.086 χ^2/NDF : 2595.5/24
 Right Out: -4.604 ± 1.203 χ^2/NDF : 10.3/5
 Left In: -14.936 ± 0.087 χ^2/NDF : 2199.7/22

Left: -15.103 ± 0.061 χ^2/NDF : 4802.4/47
 Right: -6.792 ± 1.029 χ^2/NDF : 50.7/8
 In: -14.932 ± 0.087 χ^2/NDF : 2229.1/25
 Out: -15.212 ± 0.086 χ^2/NDF : 2683.8/30
 All: -15.074 ± 0.061 χ^2/NDF : 4918.2/56

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.378 ± 0.079 $\chi^2/\text{NDF}: 28.6/2$

Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$

Right Out: 0.491 ± 0.051 $\chi^2/\text{NDF}: 995.9/5$

Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$

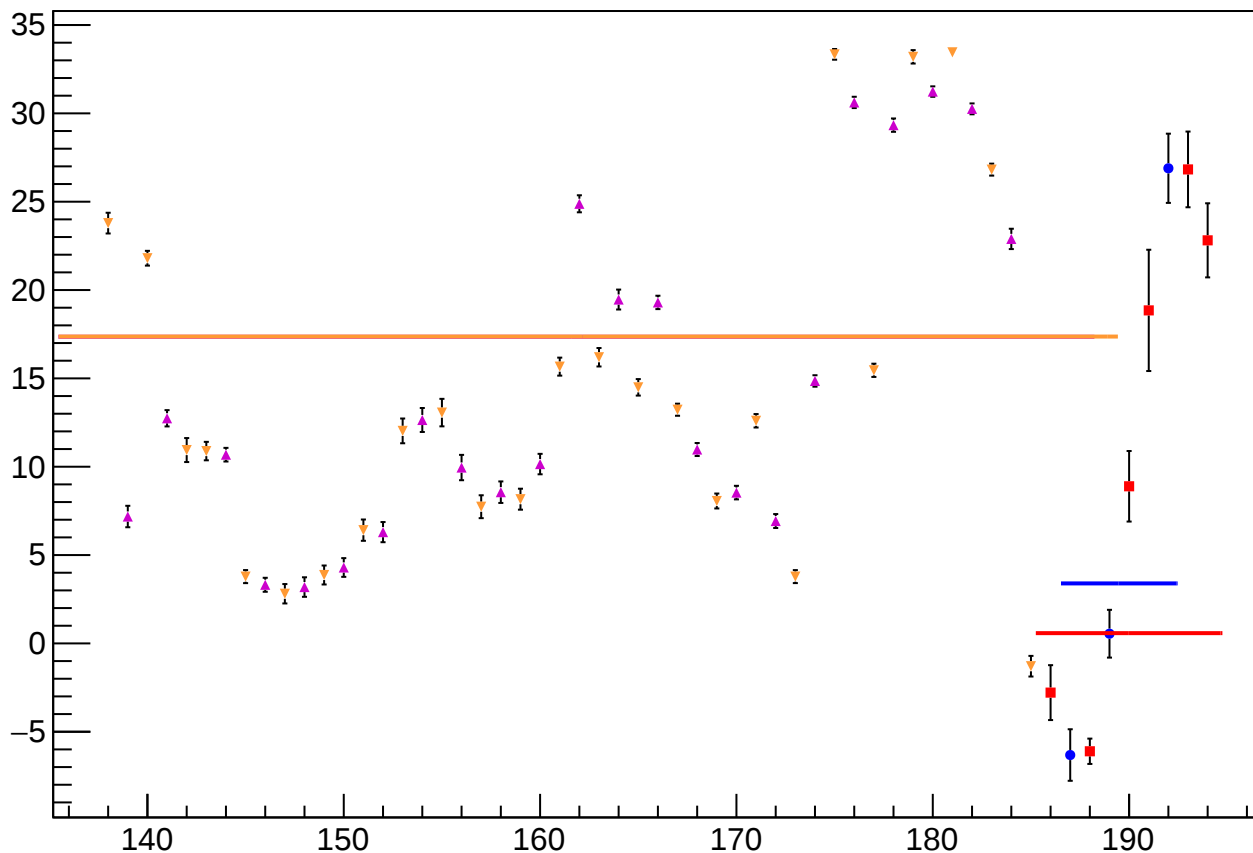
Right: 0.234 ± 0.043 $\chi^2/\text{NDF}: 1110.5/8$

In: 0.407 ± 0.004 $\chi^2/\text{NDF}: 686.5/25$

Out: 0.412 ± 0.004 $\chi^2/\text{NDF}: 1427.0/30$

All: 0.410 ± 0.003 $\chi^2/\text{NDF}: 2114.2/56$

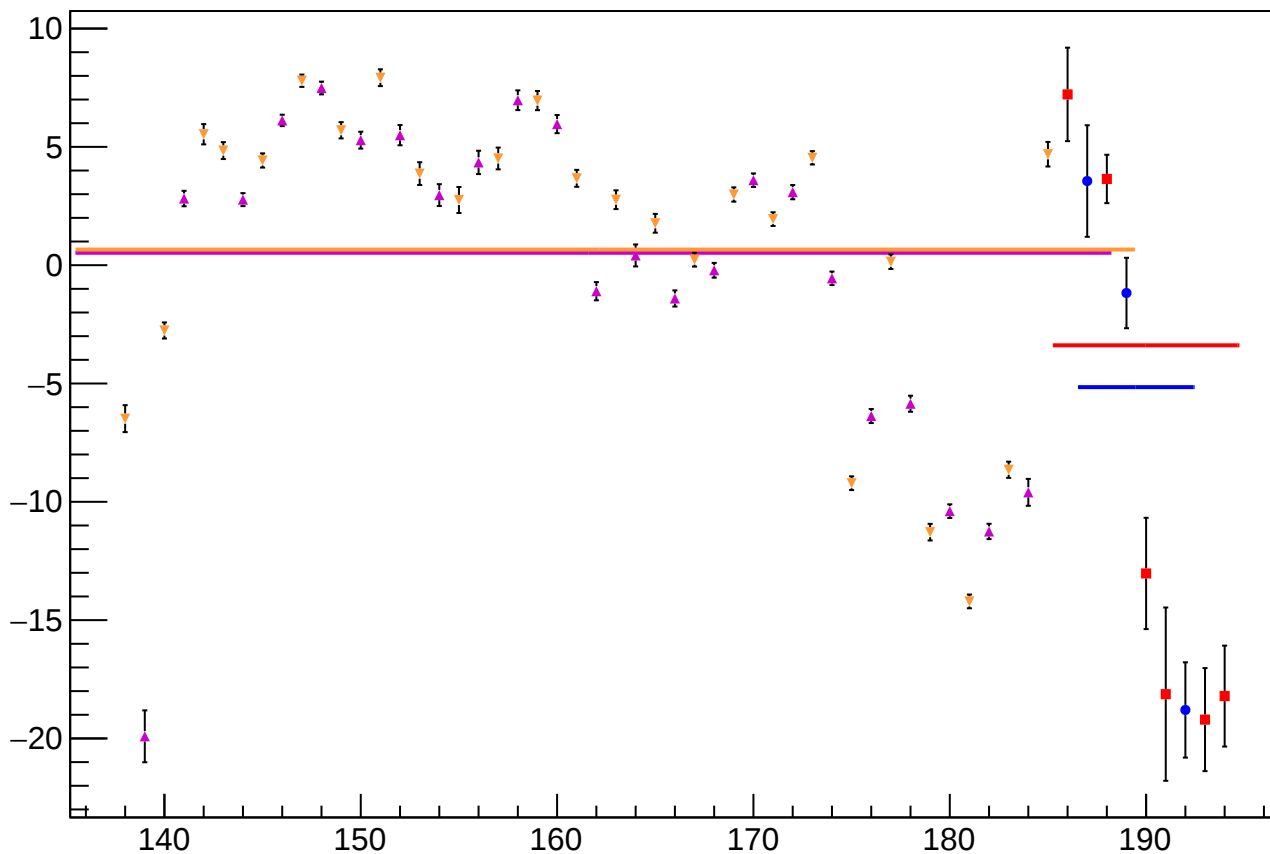
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.395 $\pm$ 0.885 χ^2 /NDF: 192.6/2
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 0.581 $\pm$ 0.564 χ^2 /NDF: 399.8/5
 Left In: 17.355 $\pm$ 0.089 χ^2 /NDF:12745.1/22

Left: 17.361 $\pm$ 0.062 χ^2 /NDF: 29082.8/47
 Right: 1.395 $\pm$ 0.476 χ^2 /NDF: 599.7/8
 In: 17.216 $\pm$ 0.088 χ^2 /NDF:13184.3/25
 Out: 16.976 $\pm$ 0.086 χ^2 /NDF:17602.1/30
 All: 17.093 $\pm$ 0.062 χ^2 /NDF: 30790.1/56

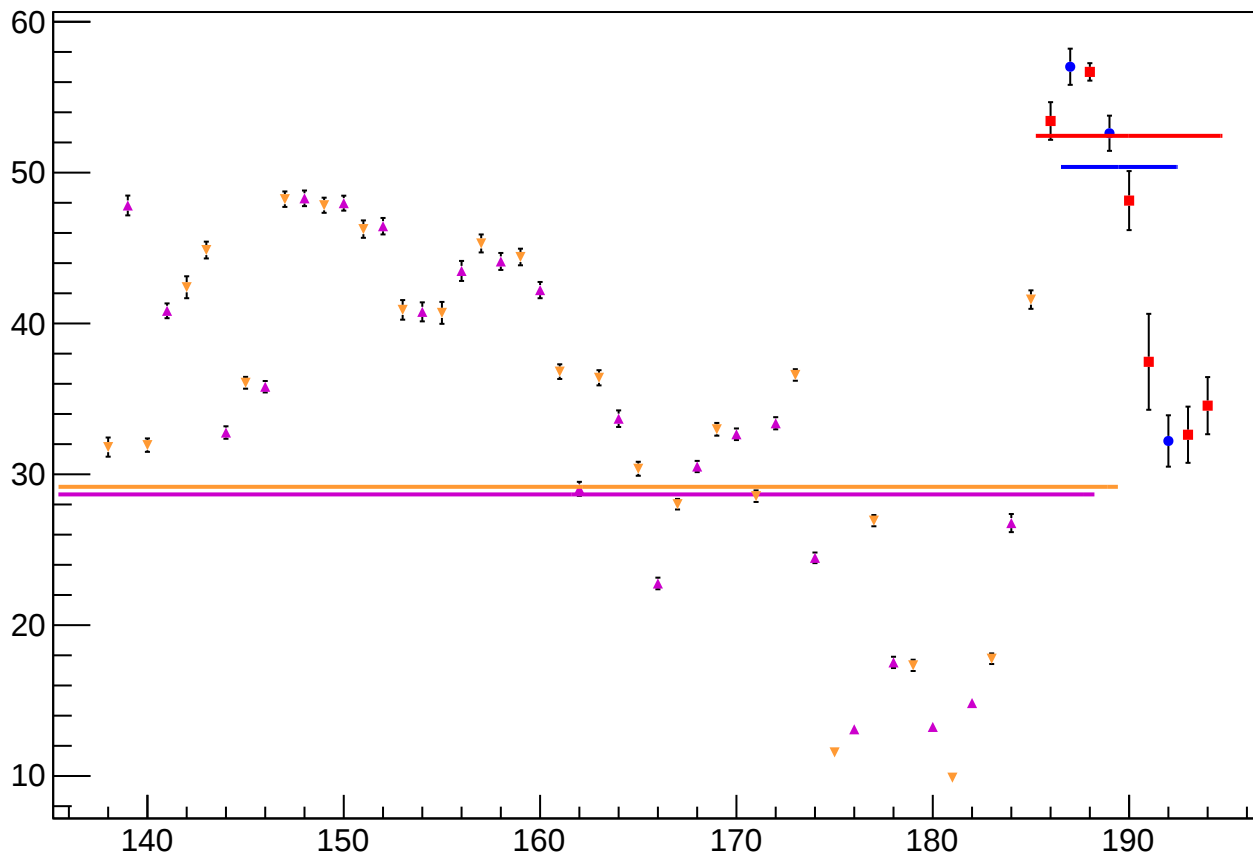
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.154 ± 1.067 χ^2/NDF : 66.7/2
 Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24
 Right Out: -3.386 ± 0.726 χ^2/NDF : 210.2/5
 Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47
 Right: -3.945 ± 0.600 χ^2/NDF : 278.7/8
 In: 0.499 ± 0.071 χ^2/NDF : 6824.6/25
 Out: 0.624 ± 0.069 χ^2/NDF : 8794.8/30
 All: 0.563 ± 0.049 χ^2/NDF : 15621.0/56

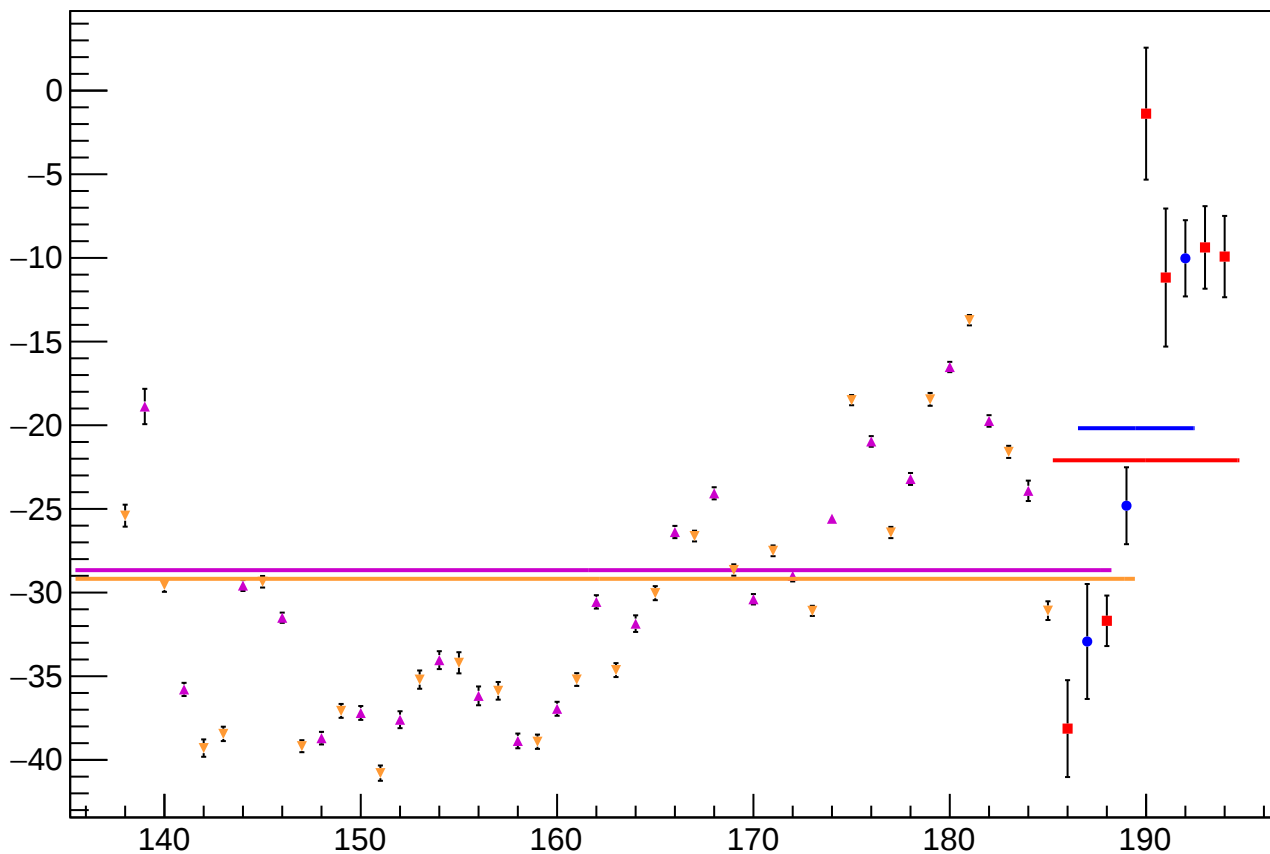
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 50.376 $\pm$ 0.751 χ^2 /NDF: 148.1/2
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 52.439 $\pm$ 0.468 χ^2 /NDF: 283.6/5
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF:16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 51.860 $\pm$ 0.397 χ^2 /NDF: 437.2/8
 In: 28.969 $\pm$ 0.089 χ^2 /NDF:17820.3/25
 Out: 29.960 $\pm$ 0.086 χ^2 /NDF:21641.4/30
 All: 29.477 $\pm$ 0.062 χ^2 /NDF: 39526.0/56

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



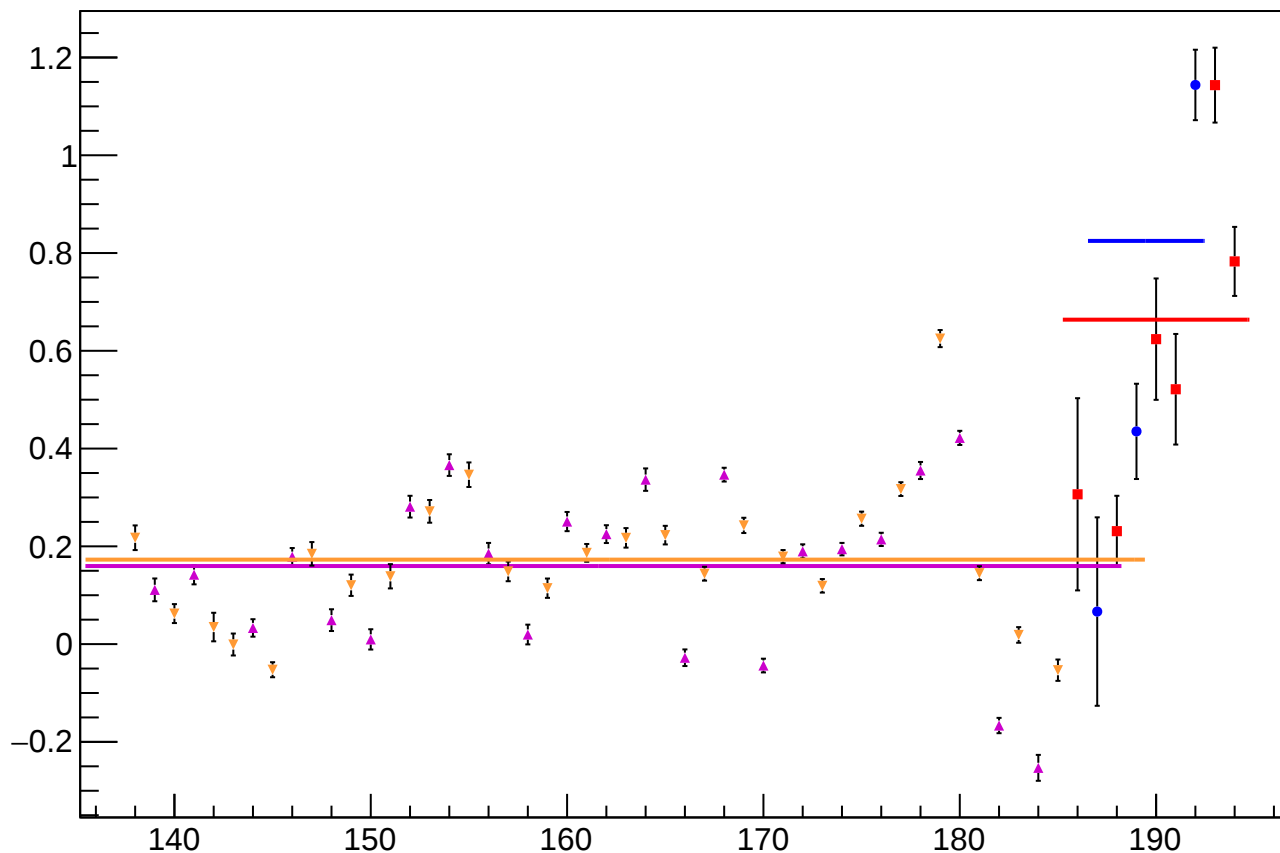
Right In: -20.177 ± 1.464 $\chi^2/\text{NDF}: 37.7/2$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -22.095 ± 0.993 $\chi^2/\text{NDF}: 157.4/5$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -21.491 ± 0.821 $\chi^2/\text{NDF}: 196.3/8$

In: -28.635 ± 0.080 $\chi^2/\text{NDF}: 6741.3/25$
 Out: -29.134 ± 0.078 $\chi^2/\text{NDF}: 9289.4/30$

All: -28.890 ± 0.056 $\chi^2/\text{NDF}: 16050.8/56$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.825 ± 0.055 $\chi^2/\text{NDF}: 51.1/2$

Left Out: 0.173 ± 0.004 $\chi^2/\text{NDF}: 1478.5/24$

Right Out: 0.664 ± 0.037 $\chi^2/\text{NDF}: 82.8/5$

Left In: 0.160 ± 0.004 $\chi^2/\text{NDF}: 2057.9/22$

Left: 0.166 ± 0.003 $\chi^2/\text{NDF}: 3542.9/47$

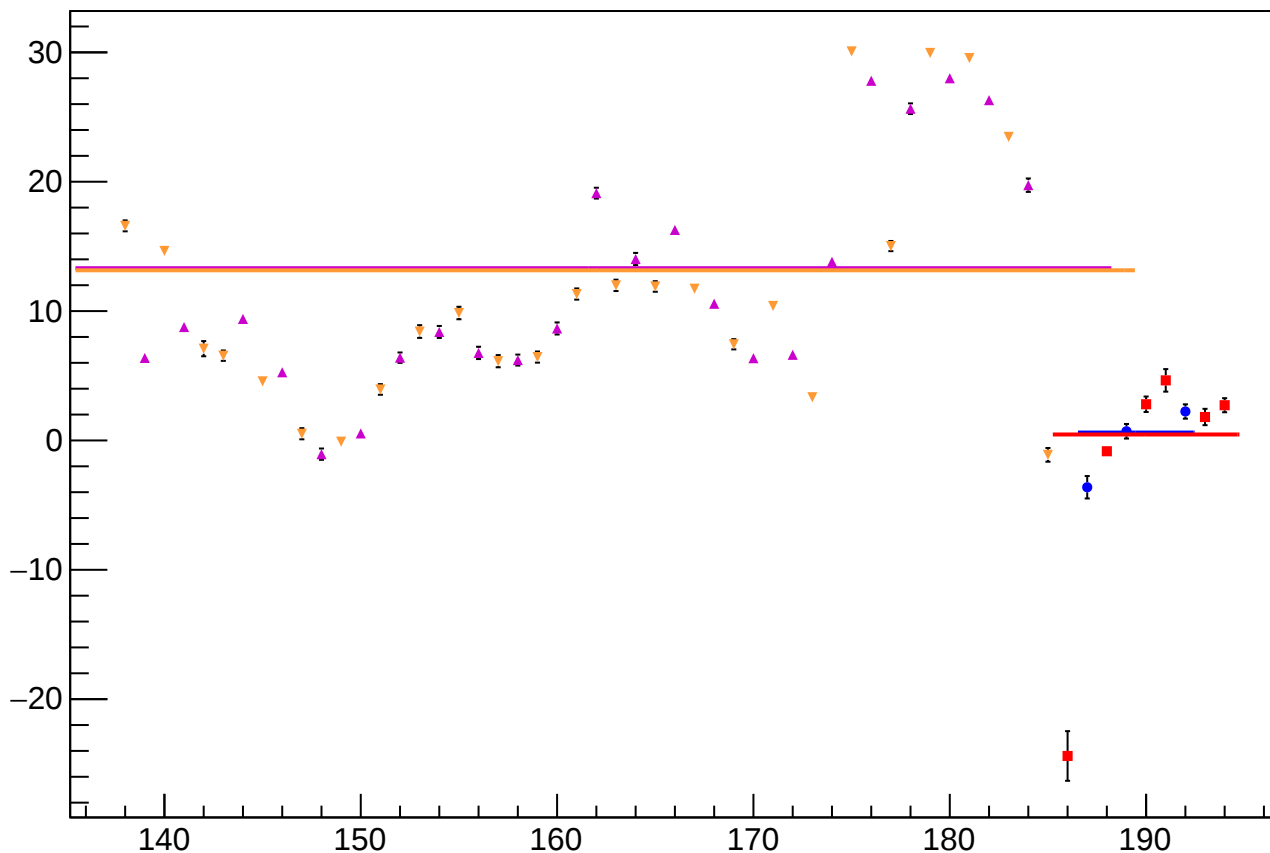
Right: 0.713 ± 0.031 $\chi^2/\text{NDF}: 139.7/8$

In: 0.163 ± 0.004 $\chi^2/\text{NDF}: 2252.1/25$

Out: 0.177 ± 0.004 $\chi^2/\text{NDF}: 1735.8/30$

All: 0.170 ± 0.003 $\chi^2/\text{NDF}: 3996.2/56$

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.610 $\pm$ 0.360 χ^2 /NDF: 32.4/2

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.461 $\pm$ 0.209 χ^2 /NDF: 249.0/5

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

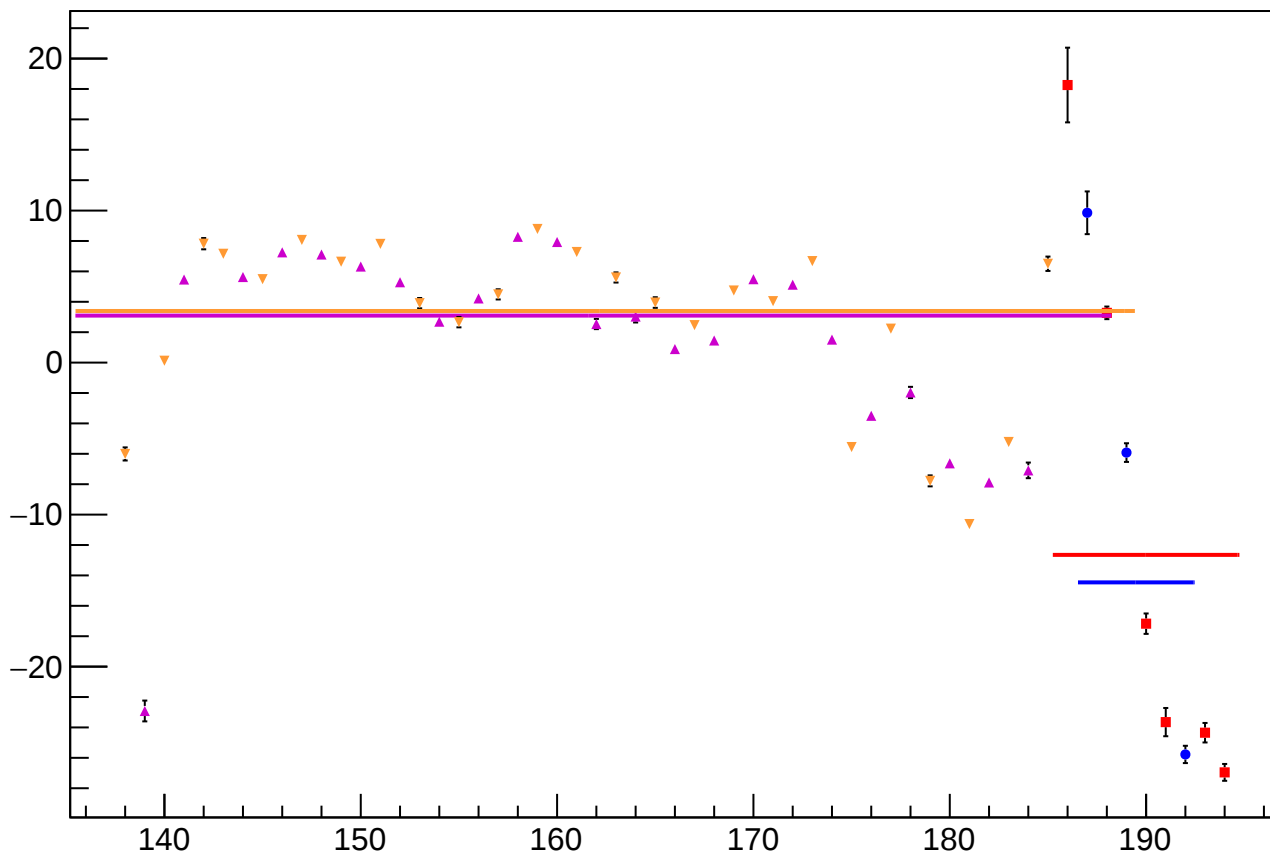
Right: 0.498 $\pm$ 0.181 χ^2 /NDF: 281.5/8

In: 12.757 $\pm$ 0.075 χ^2 /NDF:15203.6/25

Out: 11.701 $\pm$ 0.071 χ^2 /NDF:20587.2/30

All: 12.195 $\pm$ 0.052 χ^2 /NDF: 35895.1/56

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -14.458 $\pm$ 0.400 χ^2 /NDF: 888.3/2

Left Out: 3.396 $\pm$ 0.058 χ^2 /NDF:8101.5/24

Right Out: -12.649 $\pm$ 0.258 χ^2 /NDF: 2819.4/5

Left In: 3.092 $\pm$ 0.061 χ^2 /NDF:7104.4/22

Left: 3.250 $\pm$ 0.042 χ^2 /NDF: 15218.9/47

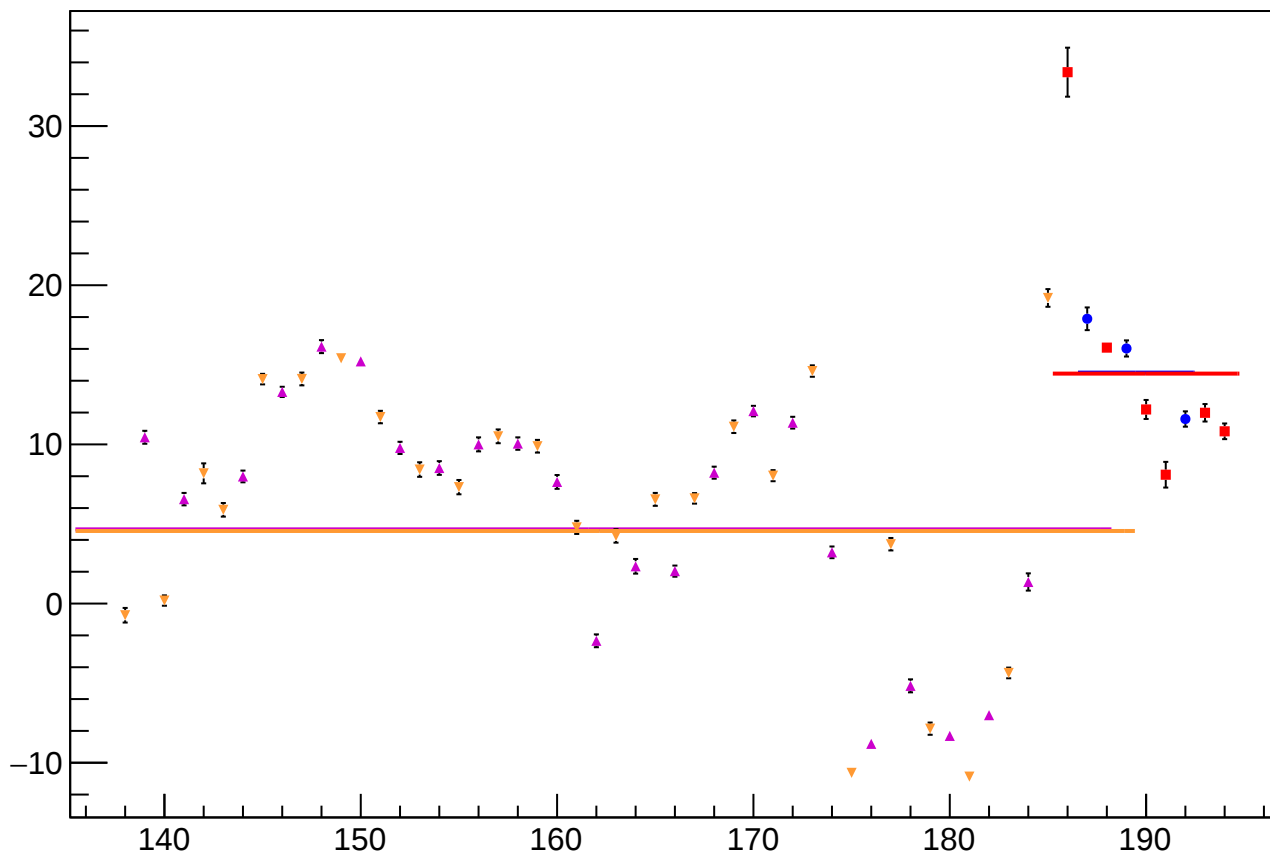
Right: -13.180 $\pm$ 0.217 χ^2 /NDF: 3722.1/8

In: 2.699 $\pm$ 0.060 χ^2 /NDF:9873.8/25

Out: 2.613 $\pm$ 0.057 χ^2 /NDF:14607.5/30

All: 2.654 $\pm$ 0.041 χ^2 /NDF: 24482.4/56

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.509+/-0.314 χ^2/NDF : 68.0/2

Left Out: 4.561+/-0.075 χ^2/NDF : 13592.1/24

Right Out: 14.448+/-0.179 χ^2/NDF : 352.7/5

Left In: 4.662+/-0.077 χ^2/NDF : 11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

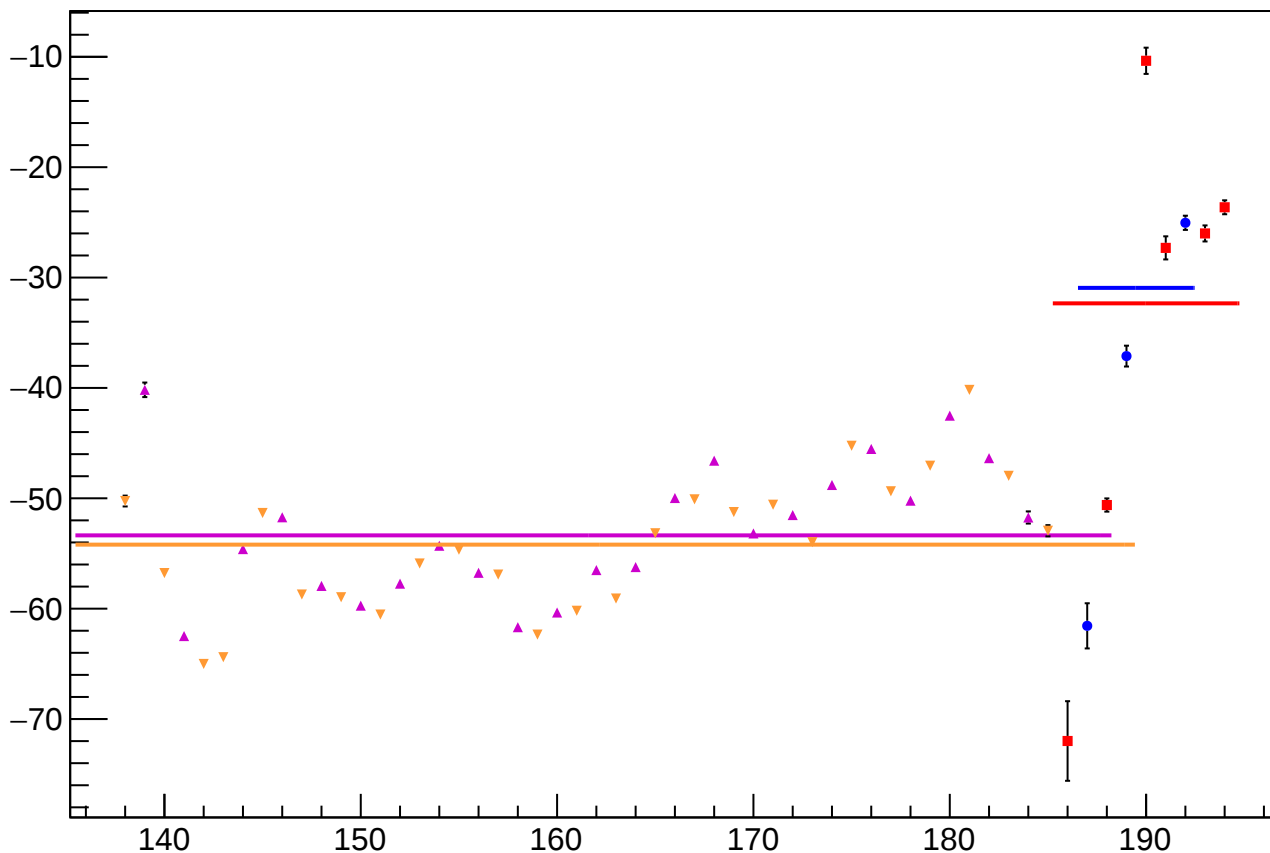
Right: 14.463+/-0.155 χ^2/NDF : 420.7/8

In: 5.219+/-0.075 χ^2/NDF : 12278.5/25

Out: 6.055+/-0.069 χ^2/NDF : 16544.3/30

All: 5.667+/-0.051 χ^2/NDF : 28890.2/56

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.934 ± 0.515 $\chi^2/\text{NDF}: 350.6/2$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -32.337 ± 0.335 $\chi^2/\text{NDF}: 1682.8/5$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

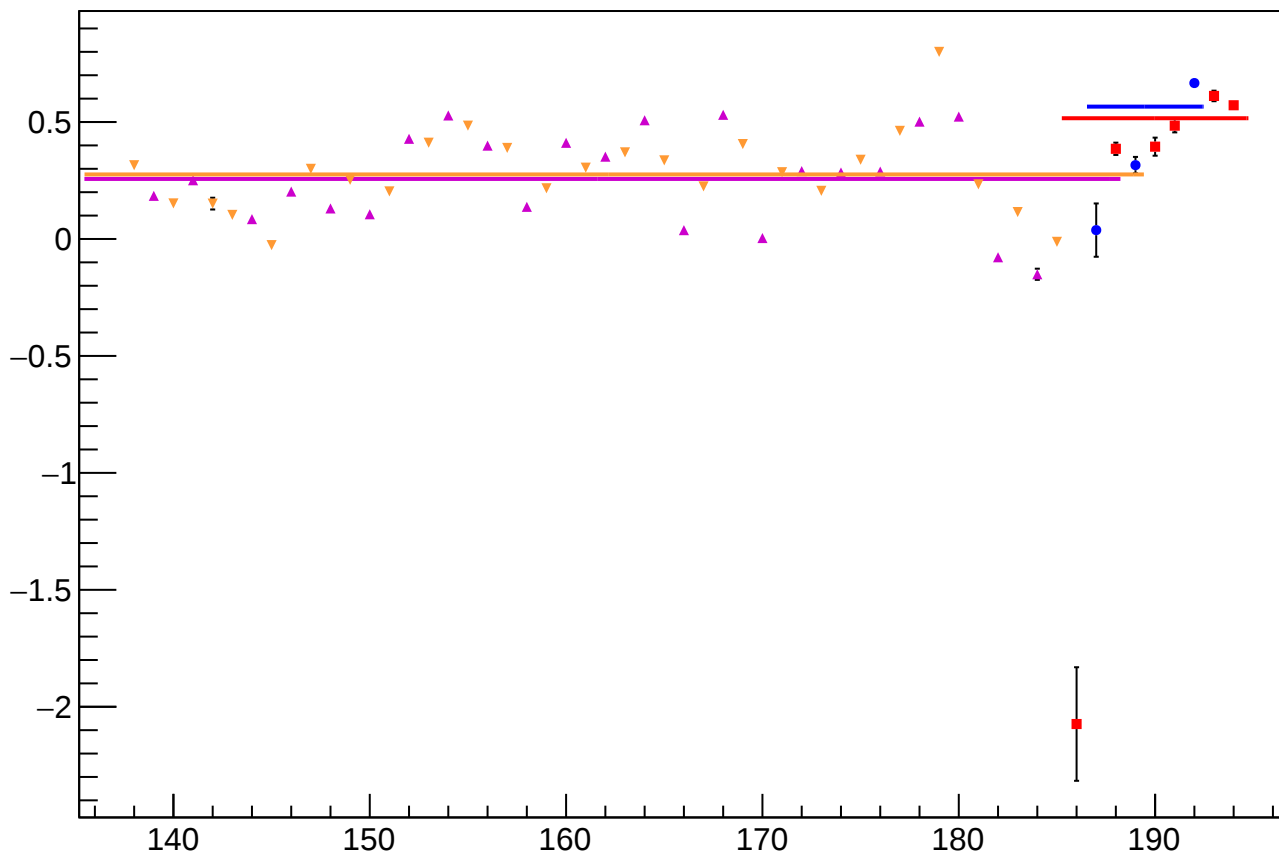
Right: -31.919 ± 0.281 $\chi^2/\text{NDF}: 2038.6/8$

In: -52.969 ± 0.068 $\chi^2/\text{NDF}: 9097.2/25$

Out: -53.375 ± 0.065 $\chi^2/\text{NDF}: 14224.8/30$

All: -53.180 ± 0.047 $\chi^2/\text{NDF}: 23340.6/56$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.566 $\pm$ 0.017 χ^2 /NDF: 96.7/2

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.516 $\pm$ 0.011 χ^2 /NDF: 176.6/5

Left In: 0.257 $\pm$ 0.003 χ^2 /NDF:3623.9/22

Left: 0.266 $\pm$ 0.002 χ^2 /NDF: 6267.0/47

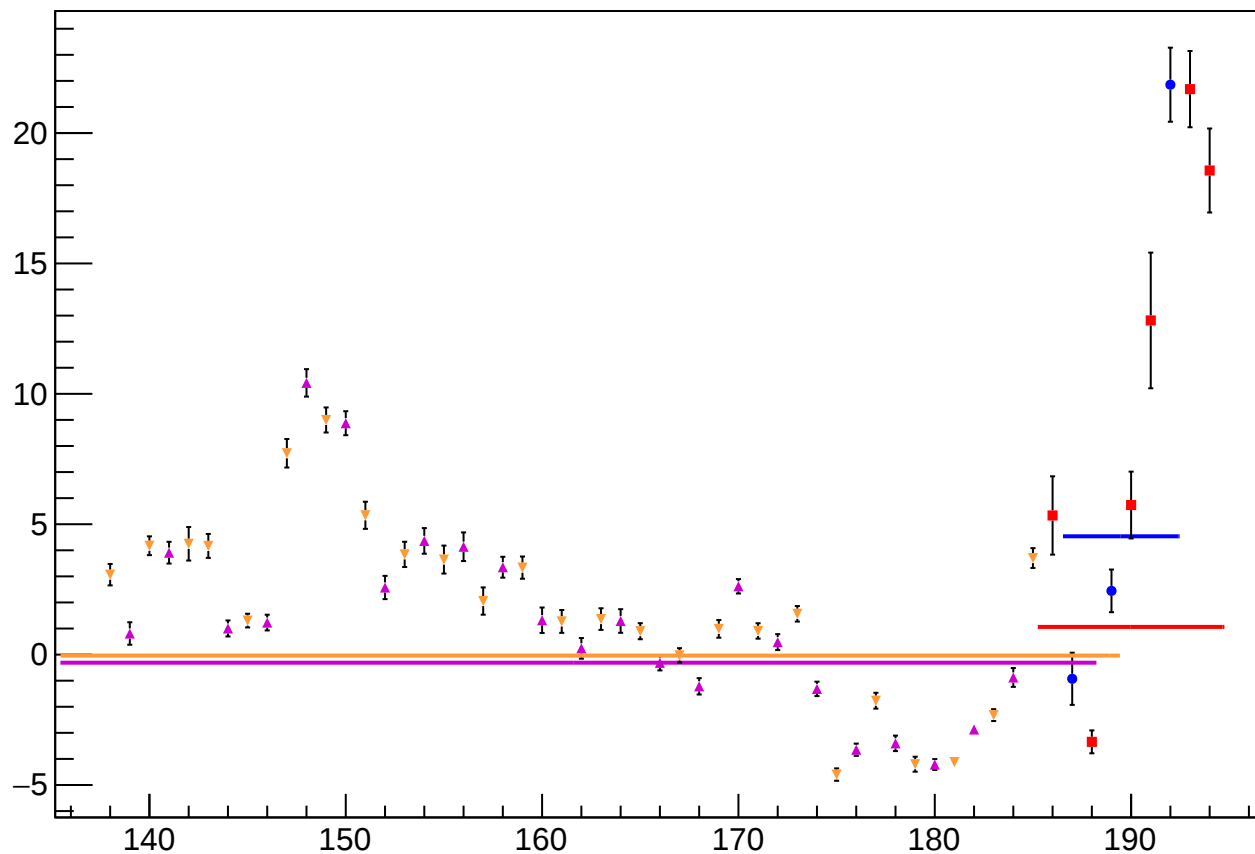
Right: 0.530 $\pm$ 0.009 χ^2 /NDF: 279.1/8

In: 0.266 $\pm$ 0.003 χ^2 /NDF:4026.7/25

Out: 0.293 $\pm$ 0.003 χ^2 /NDF:3244.2/30

All: 0.280 $\pm$ 0.002 χ^2 /NDF: 7311.1/56

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.537 $\pm$ 0.578 χ^2 /NDF: 185.1/2

Left Out: -0.037 $\pm$ 0.066 χ^2 /NDF:2637.7/24

Right Out: 1.062 $\pm$ 0.372 χ^2 /NDF: 459.7/5

Left In: -0.310 $\pm$ 0.067 χ^2 /NDF:2250.5/22

Left: -0.171 $\pm$ 0.047 χ^2 /NDF: 4896.5/47

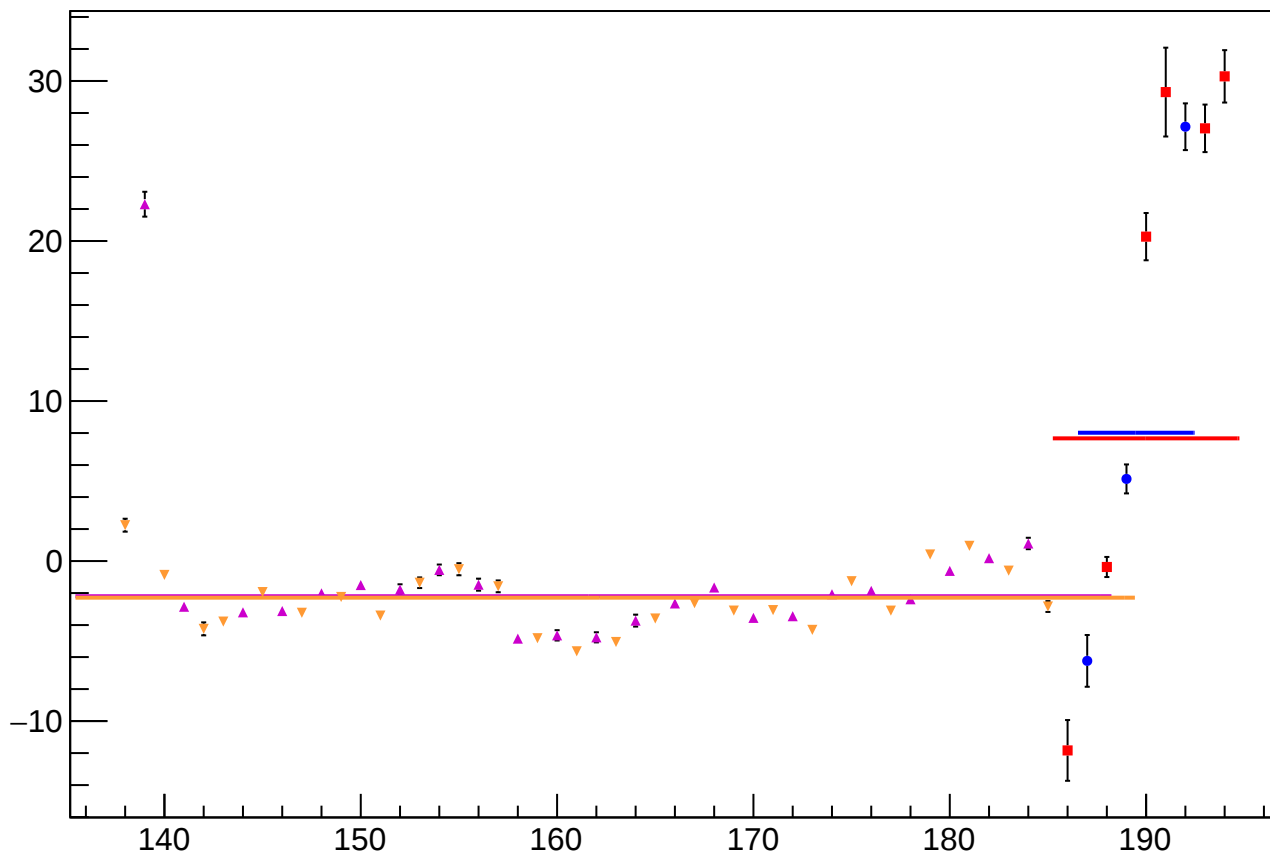
Right: 2.077 $\pm$ 0.313 χ^2 /NDF: 670.4/8

In: -0.245 $\pm$ 0.067 χ^2 /NDF:2504.8/25

Out: -0.003 $\pm$ 0.065 χ^2 /NDF:3105.9/30

All: -0.121 $\pm$ 0.047 χ^2 /NDF: 5617.5/56

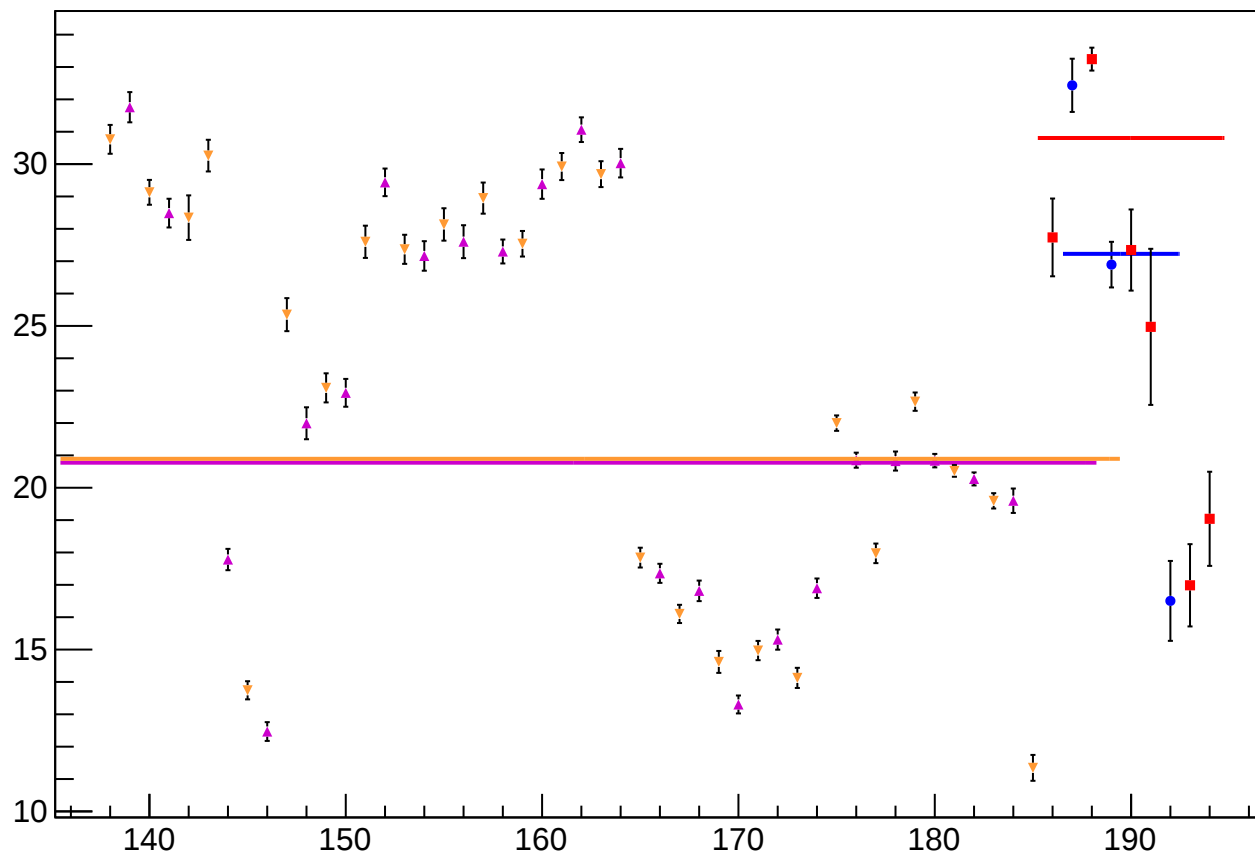
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.019 ± 0.695 $\chi^2/\text{NDF}: 259.3/2$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 7.667 ± 0.486 $\chi^2/\text{NDF}: 764.1/5$
 Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$
 Right: 7.783 ± 0.398 $\chi^2/\text{NDF}: 1023.6/8$
 In: -2.134 ± 0.055 $\chi^2/\text{NDF}: 2148.1/25$
 Out: -2.166 ± 0.054 $\chi^2/\text{NDF}: 2315.9/30$
 All: -2.150 ± 0.038 $\chi^2/\text{NDF}: 4464.1/56$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.227 $\pm$ 0.491 χ^2 /NDF: 115.8/2

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 30.807 $\pm$ 0.308 χ^2 /NDF: 251.1/5

Left In: 20.774 $\pm$ 0.068 χ^2 /NDF:5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47

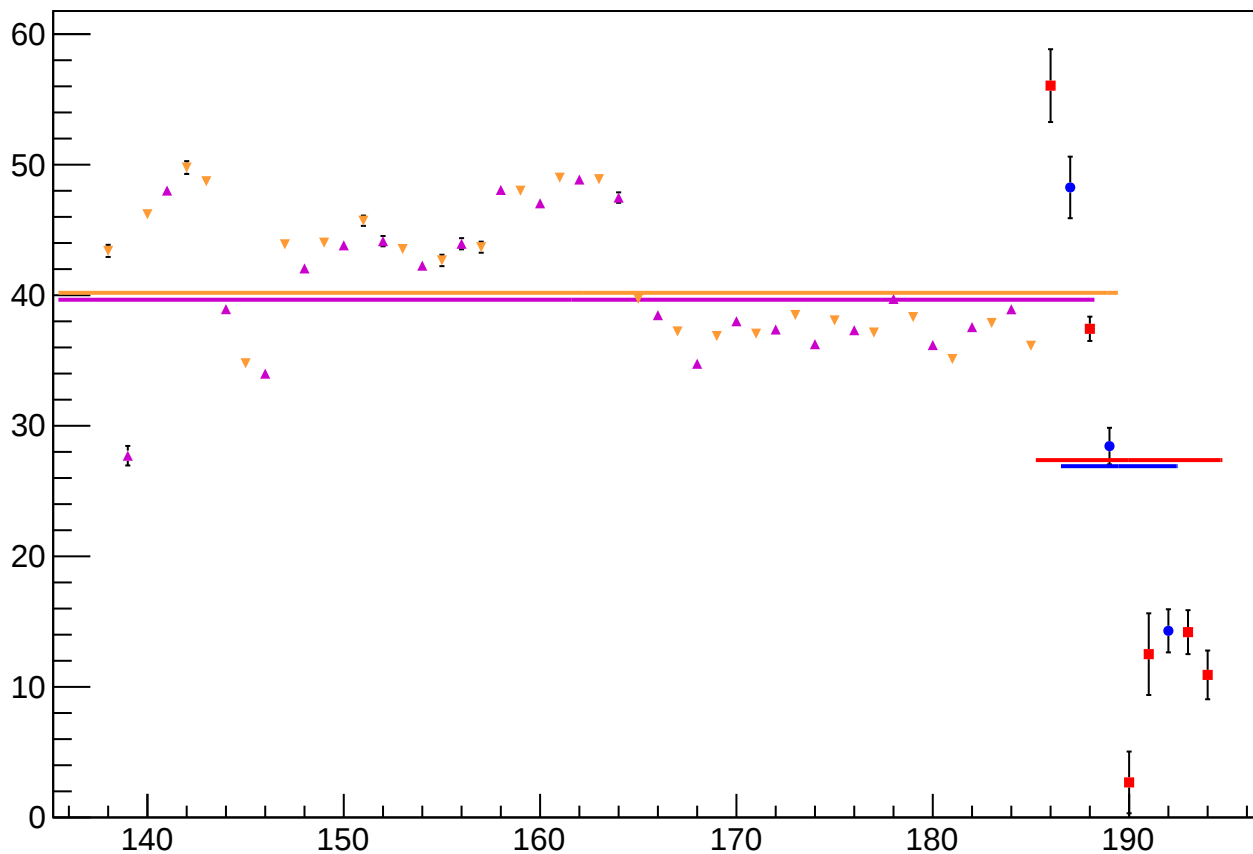
Right: 29.798 $\pm$ 0.261 χ^2 /NDF: 405.0/8

In: 20.894 $\pm$ 0.067 χ^2 /NDF:6213.2/25

Out: 21.339 $\pm$ 0.065 χ^2 /NDF:7898.8/30

All: 21.123 $\pm$ 0.047 χ^2 /NDF: 14134.7/56

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 26.905 $\pm$ 0.974 χ^2 /NDF: 141.5/2

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 27.372 $\pm$ 0.673 χ^2 /NDF: 493.4/5

Left In: 39.655 $\pm$ 0.061 χ^2 /NDF: 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47

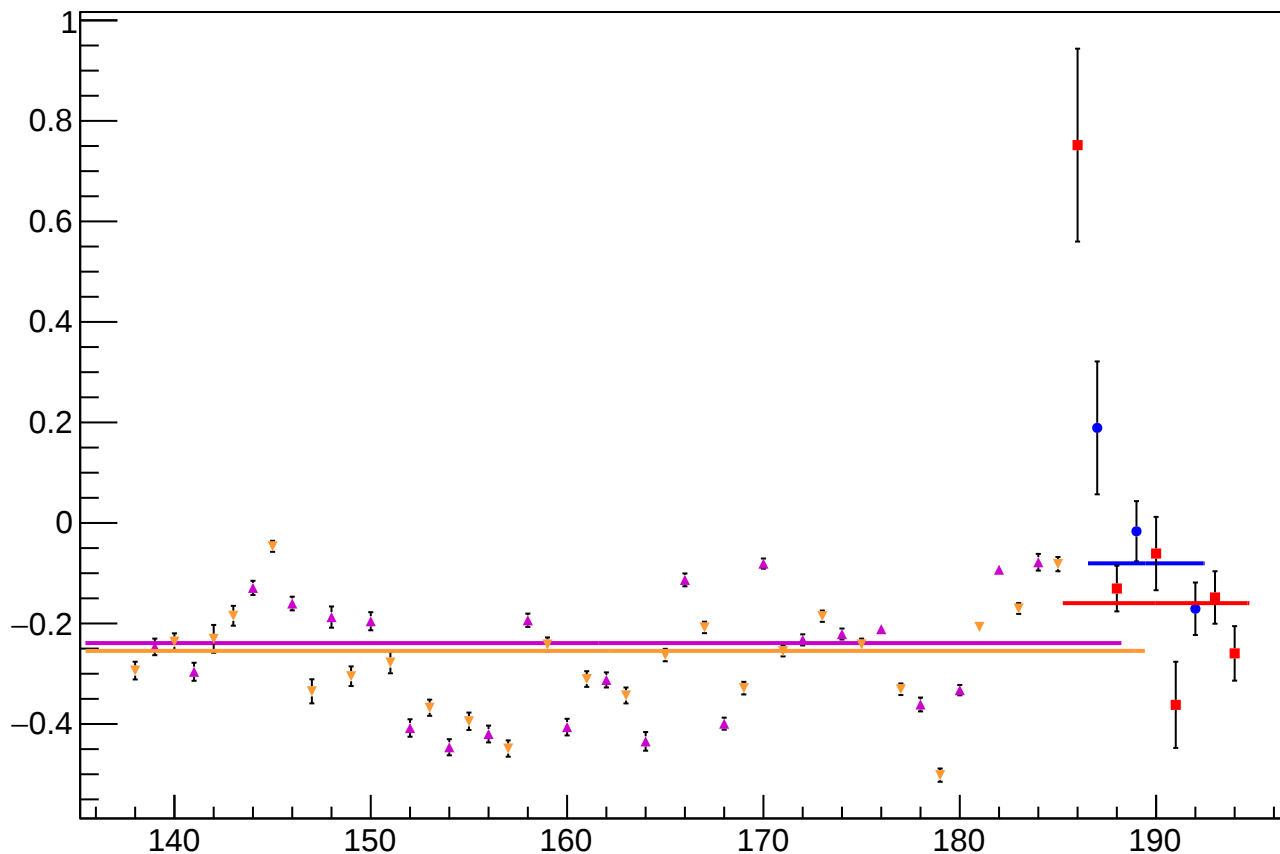
Right: 27.221 $\pm$ 0.554 χ^2 /NDF: 635.0/8

In: 39.605 $\pm$ 0.061 χ^2 /NDF: 5610.8/25

Out: 40.084 $\pm$ 0.060 χ^2 /NDF: 6785.4/30

All: 39.849 $\pm$ 0.043 χ^2 /NDF: 12427.4/56

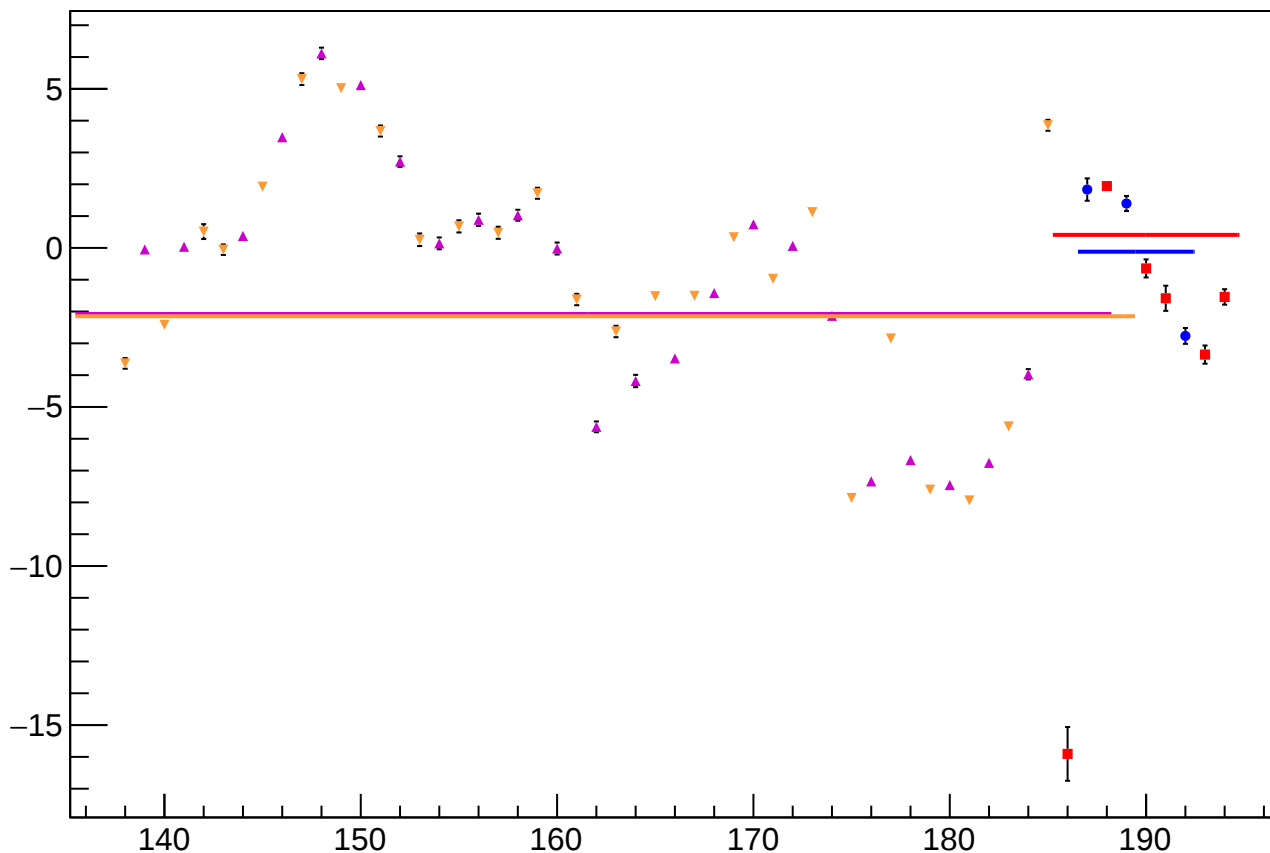
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.080 ± 0.038 χ^2/NDF : 8.3/2
 Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24
 Right Out: -0.160 ± 0.025 χ^2/NDF : 33.8/5
 Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47
 Right: -0.135 ± 0.021 χ^2/NDF : 45.1/8
 In: -0.238 ± 0.003 χ^2/NDF : 1776.3/25
 Out: -0.253 ± 0.003 χ^2/NDF : 1468.0/30
 All: -0.246 ± 0.002 χ^2/NDF : 3259.8/56

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

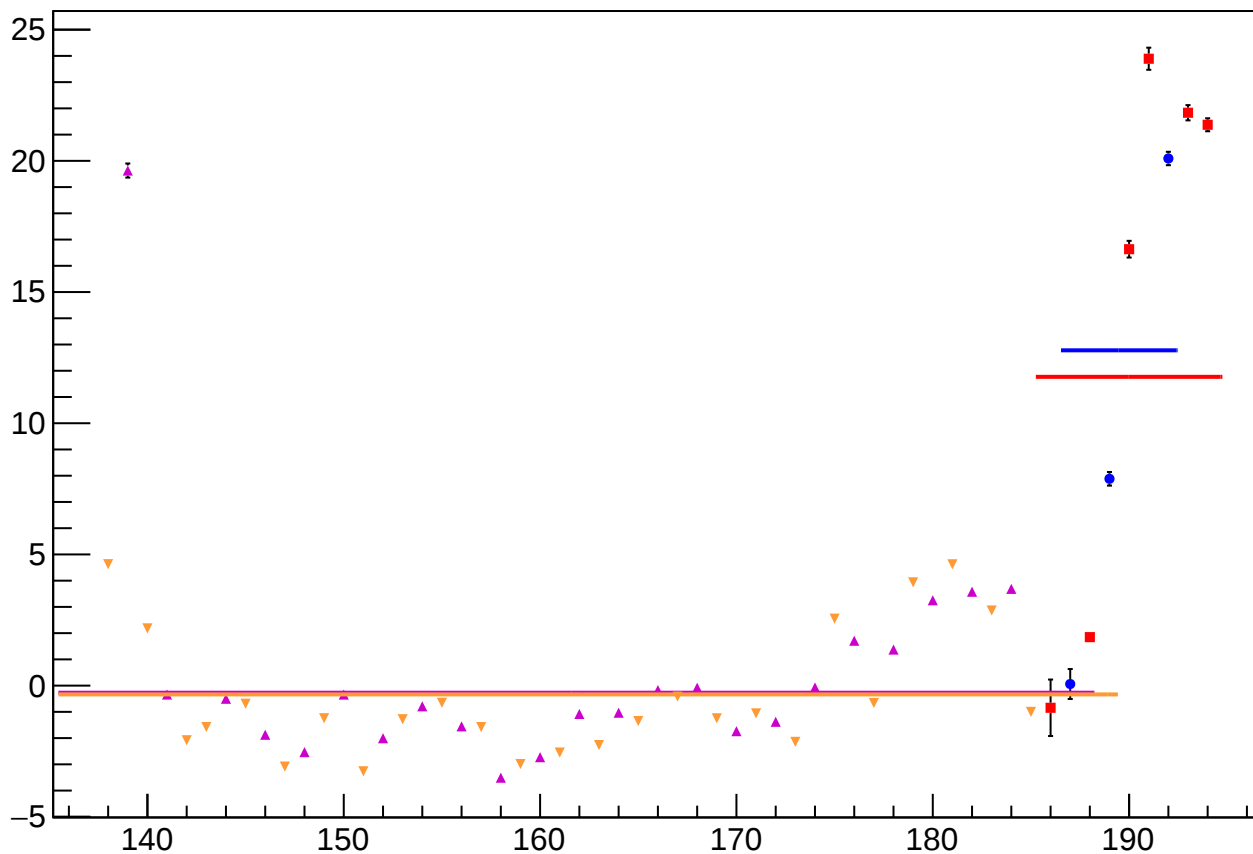


Right In: -0.119 ± 0.154 χ^2/NDF : 184.9/2
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: 0.410 ± 0.087 χ^2/NDF : 844.3/5
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: 0.282 ± 0.076 χ^2/NDF : 1038.1/8
 In: -2.024 ± 0.026 χ^2/NDF : 23587.4/25
 Out: -1.944 ± 0.025 χ^2/NDF : 26177.8/30

All: -1.982 ± 0.018 χ^2/NDF : 49770.3/56

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.779 $\pm$ 0.173 χ^2 /NDF: 1672.2/2

Left Out: -0.335 $\pm$ 0.021 χ^2 /NDF:12596.1/24

Right Out: 11.769 $\pm$ 0.110 χ^2 /NDF: 7677.9/5

Left In: -0.269 $\pm$ 0.021 χ^2 /NDF:13323.1/22

Left: -0.303 $\pm$ 0.015 χ^2 /NDF: 25924.2/47

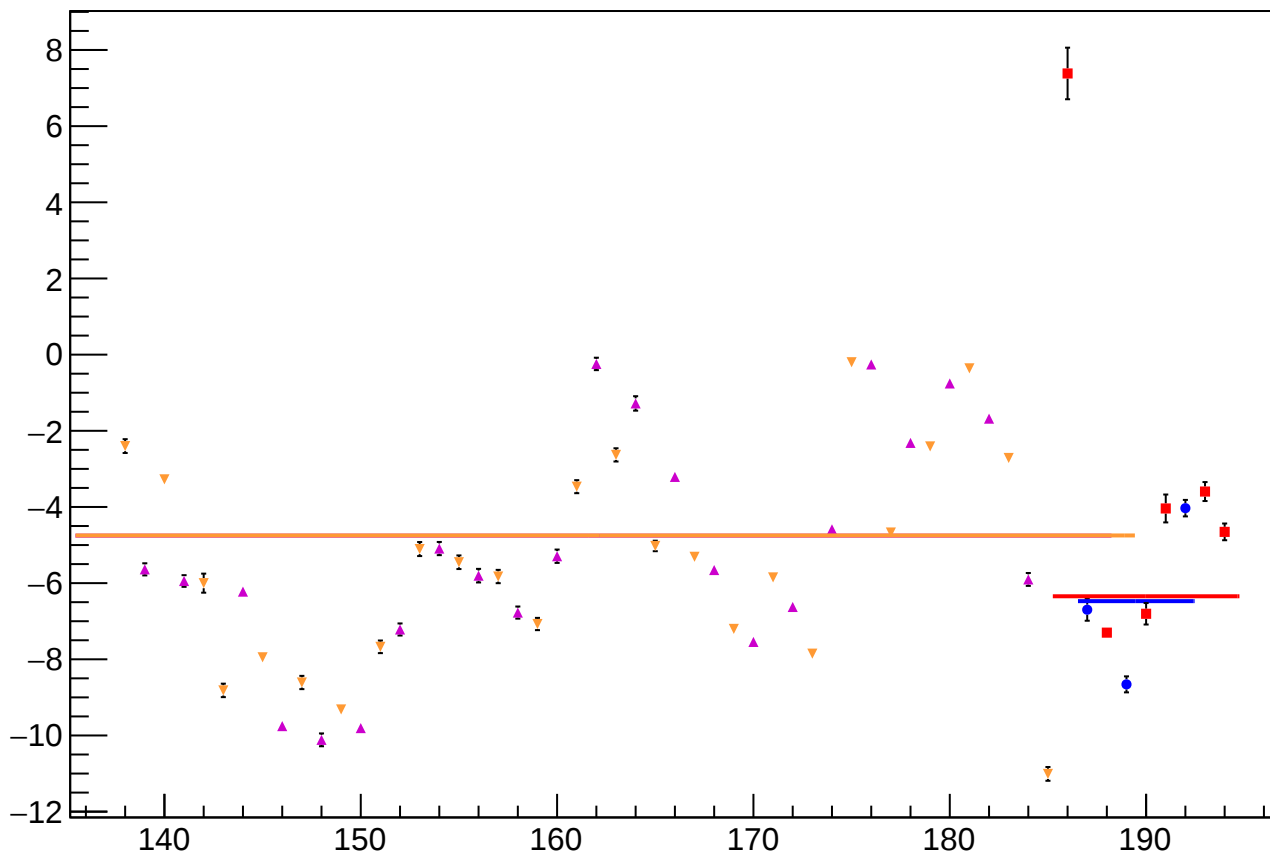
Right: 12.058 $\pm$ 0.093 χ^2 /NDF: 9374.3/8

In: -0.082 $\pm$ 0.021 χ^2 /NDF:20579.7/25

Out: 0.075 $\pm$ 0.020 χ^2 /NDF:32002.3/30

All: -0.001 $\pm$ 0.015 χ^2 /NDF: 52611.3/56

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



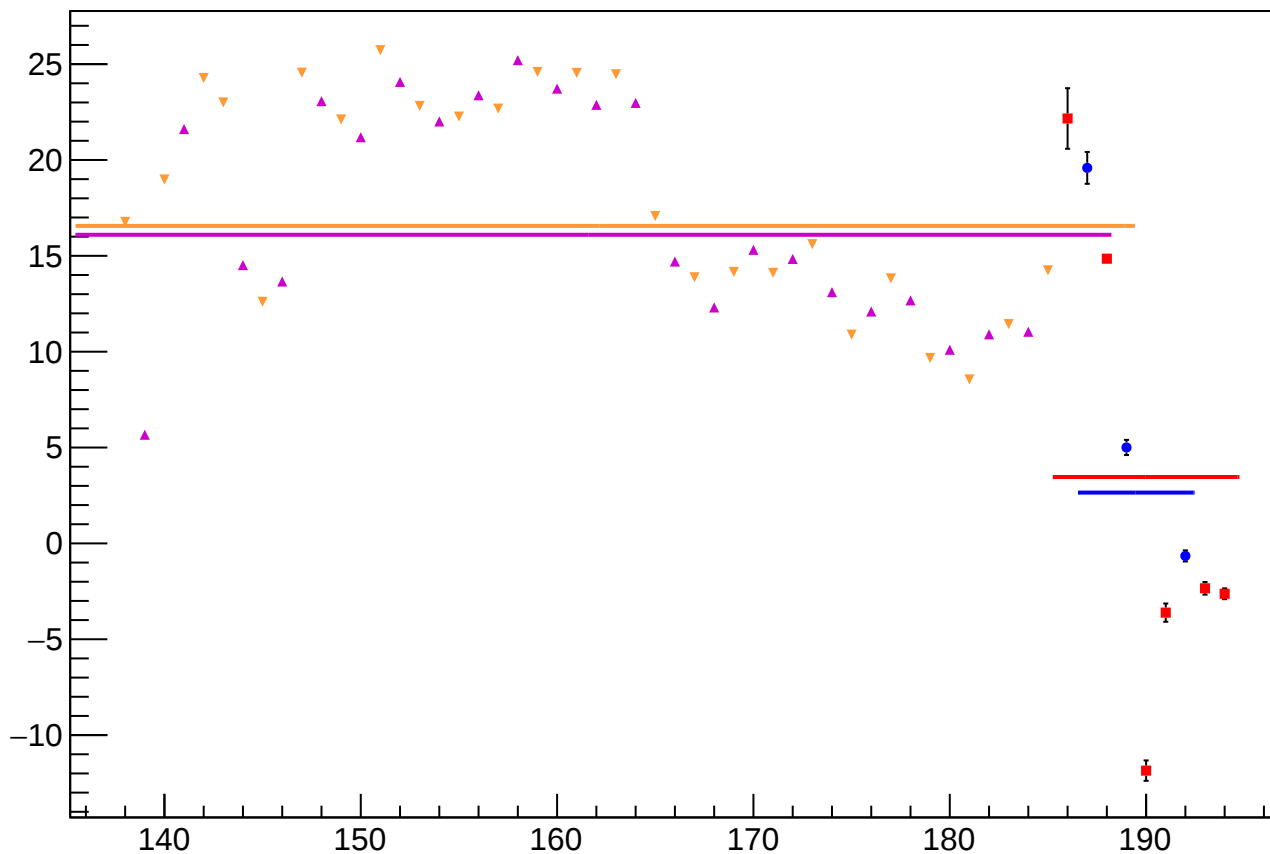
Right In: -6.473 ± 0.134 $\chi^2/\text{NDF}: 235.9/2$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -6.345 ± 0.073 $\chi^2/\text{NDF}: 749.9/5$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -6.375 ± 0.064 $\chi^2/\text{NDF}: 986.4/8$

In: -4.816 ± 0.026 $\chi^2/\text{NDF}: 14514.3/25$
 Out: -4.924 ± 0.024 $\chi^2/\text{NDF}: 14460.9/30$

All: -4.873 ± 0.018 $\chi^2/\text{NDF}: 28984.4/56$

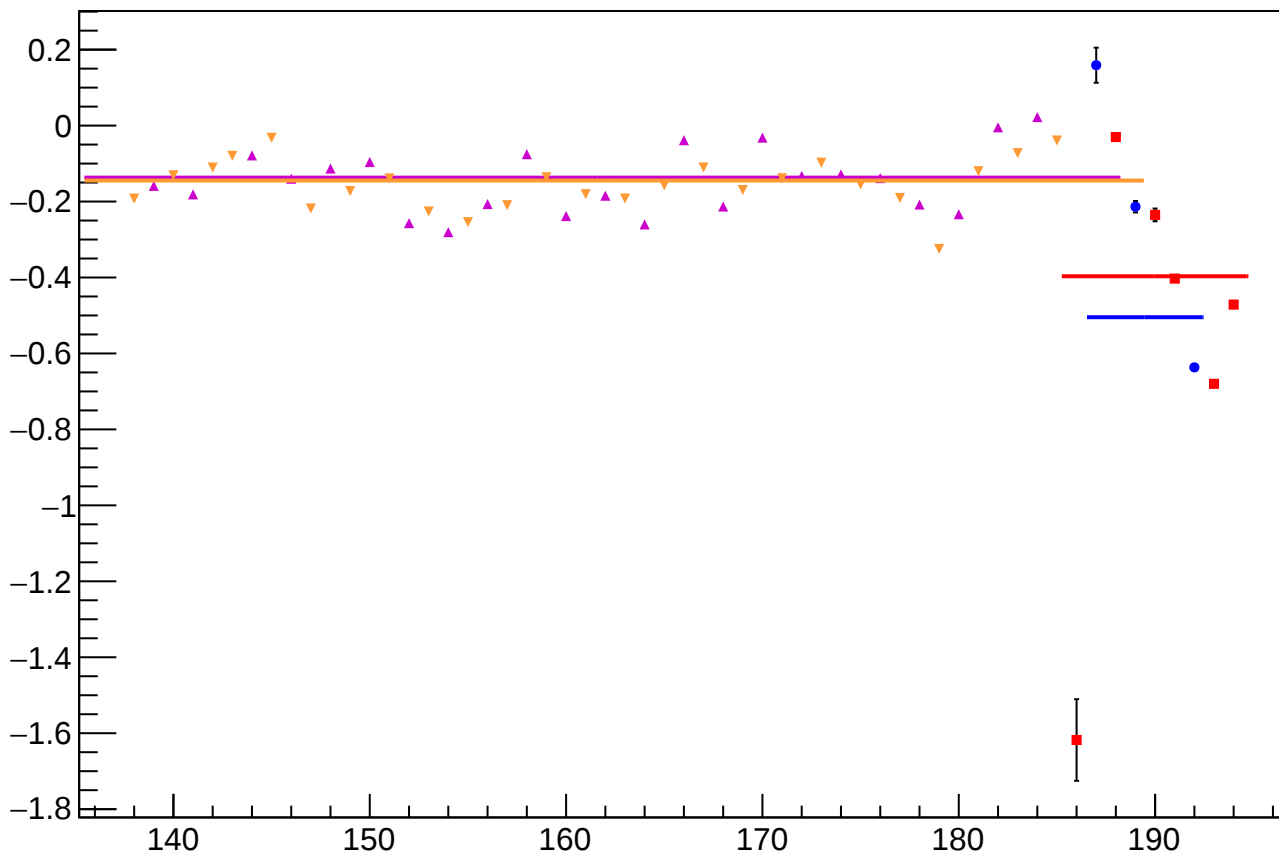
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.650 ± 0.225 $\chi^2/\text{NDF}: 581.3/2$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 3.463 ± 0.144 $\chi^2/\text{NDF}: 4338.6/5$
 Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$
 Right: 3.227 ± 0.121 $\chi^2/\text{NDF}: 4929.2/8$
 In: 15.952 ± 0.023 $\chi^2/\text{NDF}: 46471.0/25$
 Out: 16.232 ± 0.023 $\chi^2/\text{NDF}: 66294.1/30$
 All: 16.095 ± 0.016 $\chi^2/\text{NDF}: 112838.1/56$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.505 ± 0.008 χ^2/NDF : 785.7/2

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.397 ± 0.005 χ^2/NDF : 2310.7/5

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

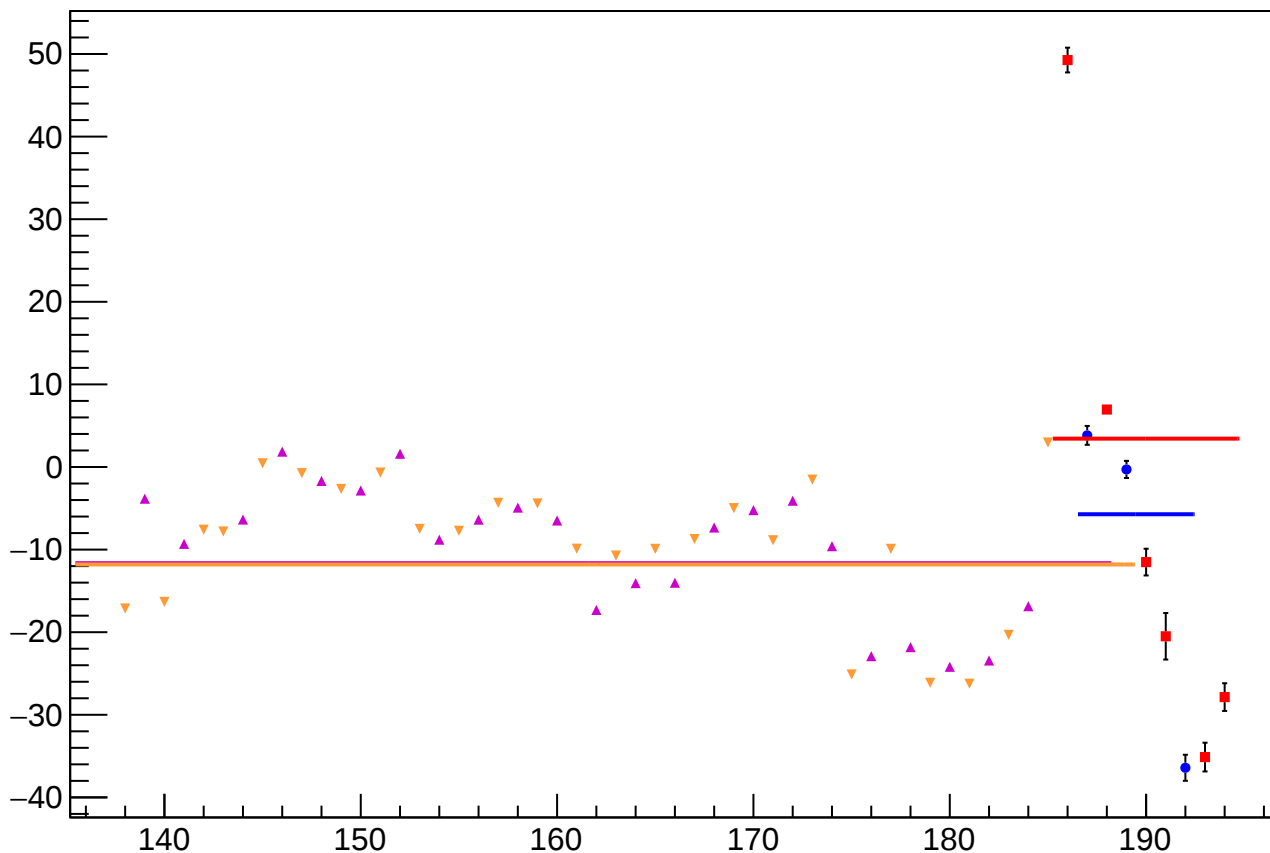
Right: -0.427 ± 0.004 χ^2/NDF : 3237.2/8

In: -0.144 ± 0.001 χ^2/NDF : 8407.1/25

Out: -0.156 ± 0.001 χ^2/NDF : 8700.3/30

All: -0.150 ± 0.001 χ^2/NDF : 17174.9/56

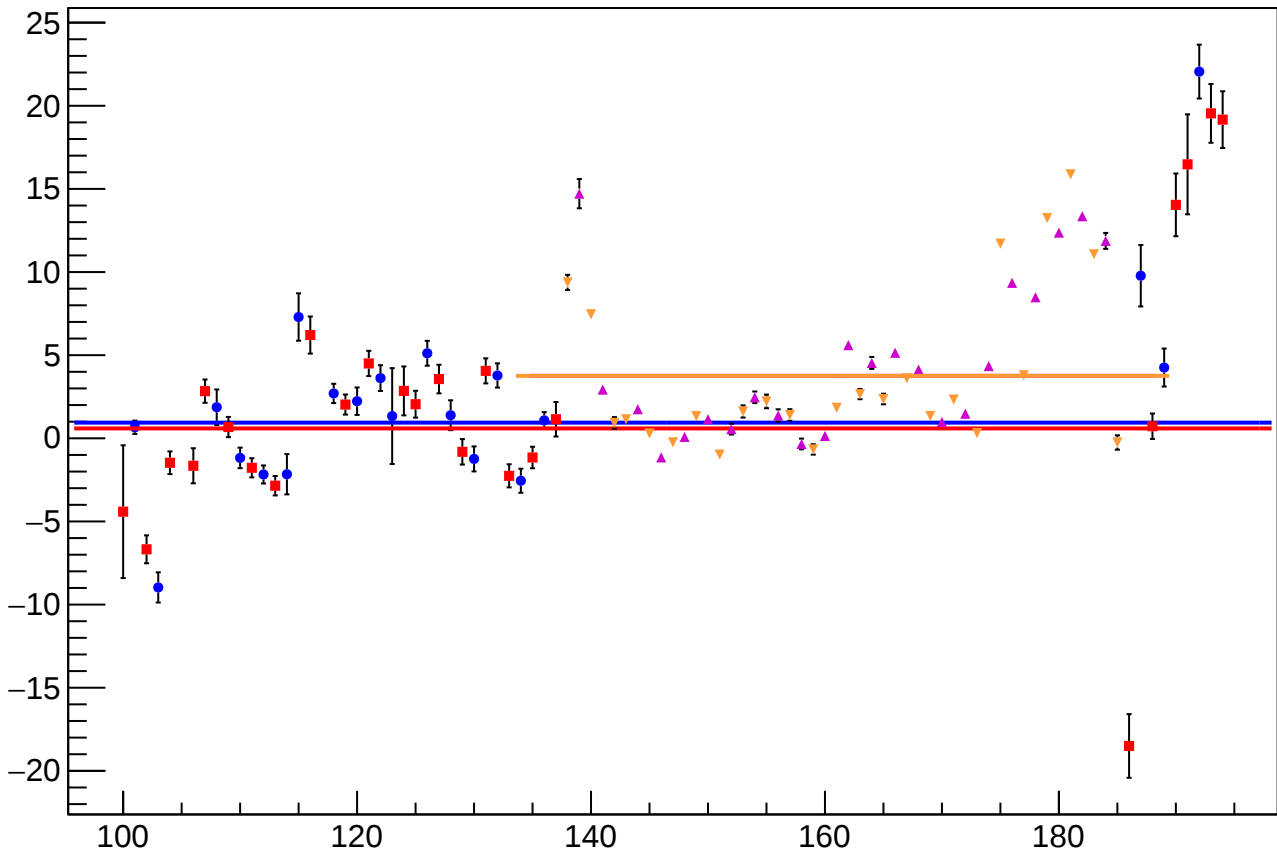
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.720 ± 0.690 $\chi^2/\text{NDF}: 476.5/2$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: 3.433 ± 0.442 $\chi^2/\text{NDF}: 1974.0/5$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$
 Right: 0.768 ± 0.372 $\chi^2/\text{NDF}: 2575.2/8$
 In: -11.579 ± 0.071 $\chi^2/\text{NDF}: 14670.6/25$
 Out: -11.426 ± 0.069 $\chi^2/\text{NDF}: 20438.7/30$
 All: -11.501 ± 0.050 $\chi^2/\text{NDF}: 35111.6/56$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.943 $\pm$ 0.167 χ^2 /NDF: 494.7/19

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 0.594 $\pm$ 0.167 χ^2 /NDF: 688.3/24

Left In: 3.757 $\pm$ 0.057 χ^2 /NDF: 5629.4/22

Left: 3.757 $\pm$ 0.040 χ^2 /NDF: 13080.0/47

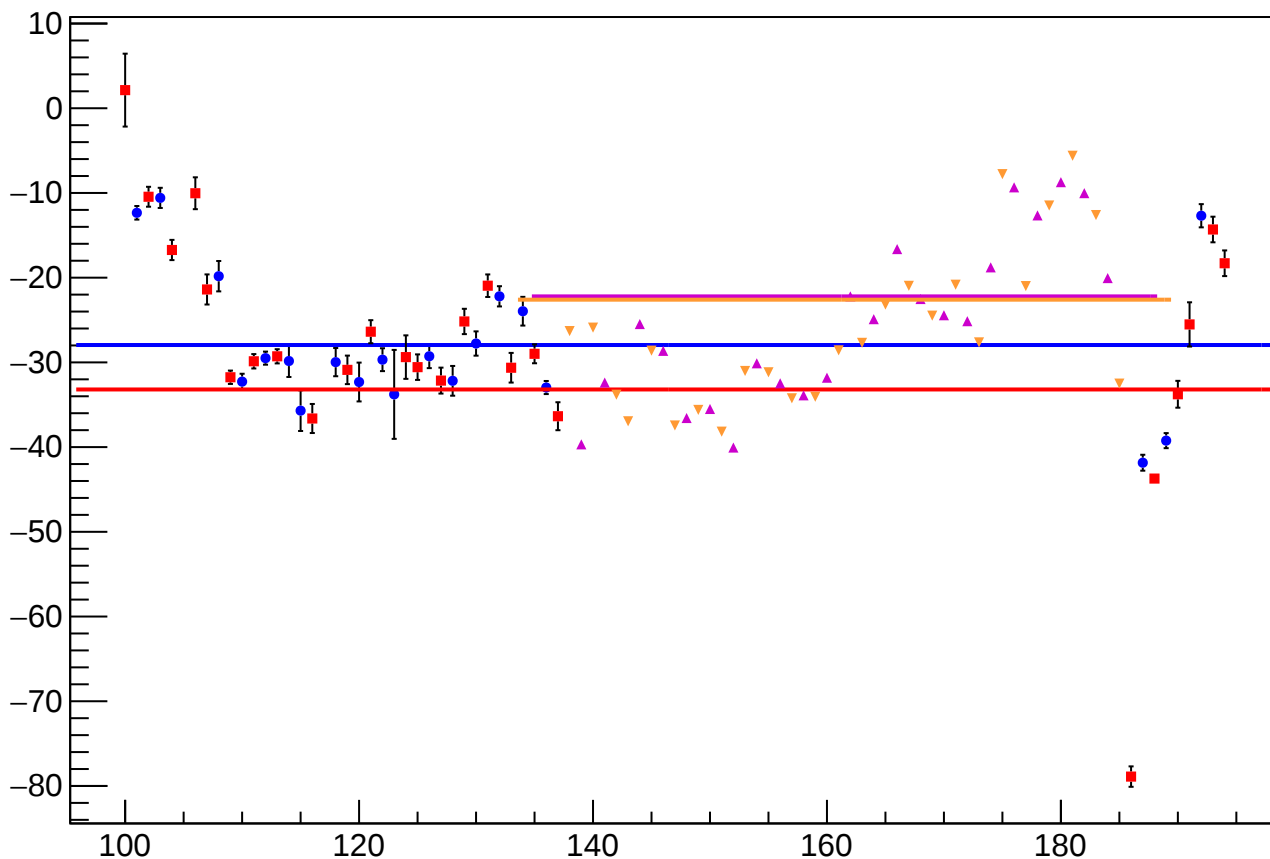
Right: 0.769 $\pm$ 0.118 χ^2 /NDF: 1185.2/44

In: 3.467 $\pm$ 0.054 χ^2 /NDF: 6378.7/42

Out: 3.443 $\pm$ 0.053 χ^2 /NDF: 8461.0/49

All: 3.455 $\pm$ 0.038 χ^2 /NDF: 14839.8/92

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.949 ± 0.268 $\chi^2/\text{NDF}: 1238.2/19$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$

Right Out: -33.197 ± 0.231 $\chi^2/\text{NDF}: 3326.7/24$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

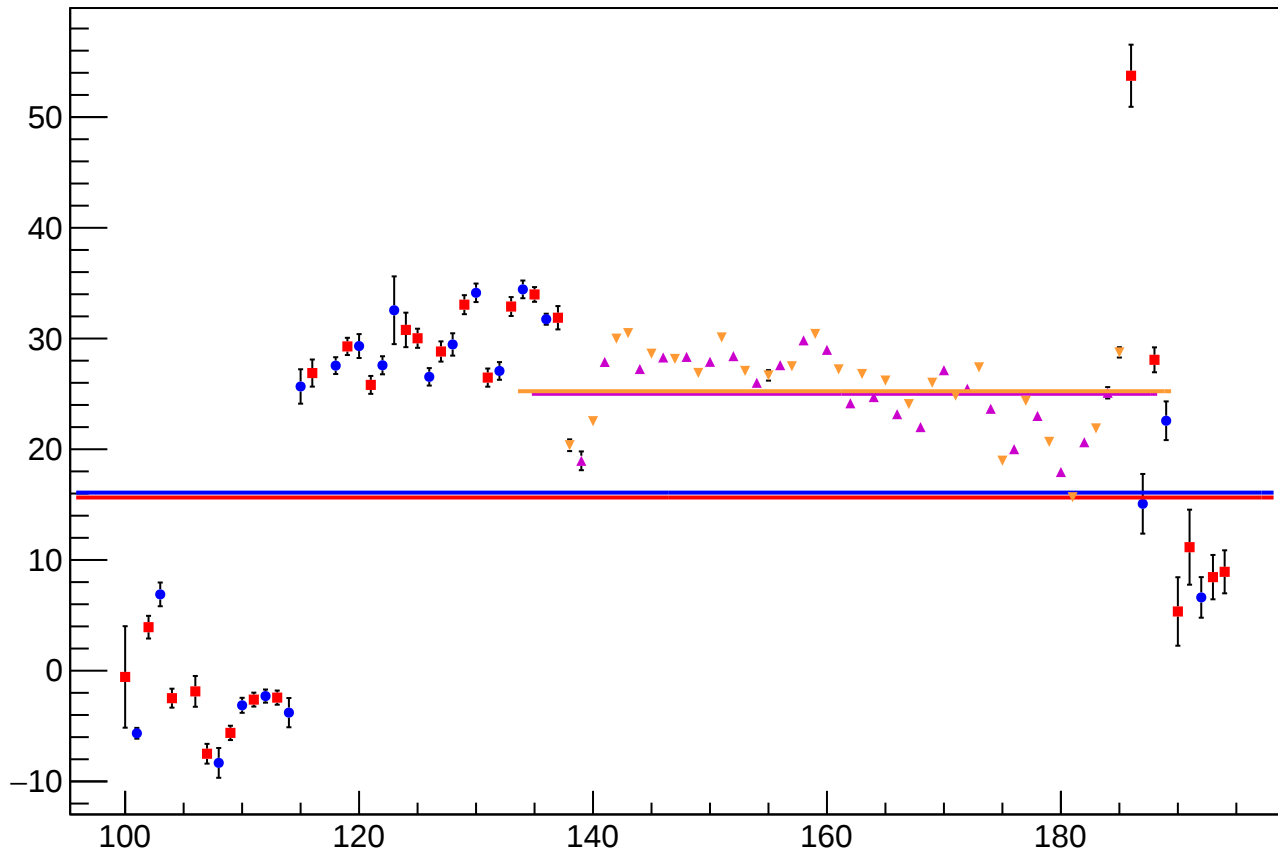
Right: -30.952 ± 0.175 $\chi^2/\text{NDF}: 4785.0/44$

In: -22.593 ± 0.069 $\chi^2/\text{NDF}: 19295.0/42$

Out: -23.503 ± 0.068 $\chi^2/\text{NDF}: 25179.9/49$

All: -23.058 ± 0.048 $\chi^2/\text{NDF}: 44563.5/92$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.084 $\pm$ 0.190 χ^2 /NDF: 7582.7/19

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.643 $\pm$ 0.191 χ^2 /NDF: 7609.2/24

Left In: 25.009 $\pm$ 0.064 χ^2 /NDF:2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2 /NDF: 6515.2/47

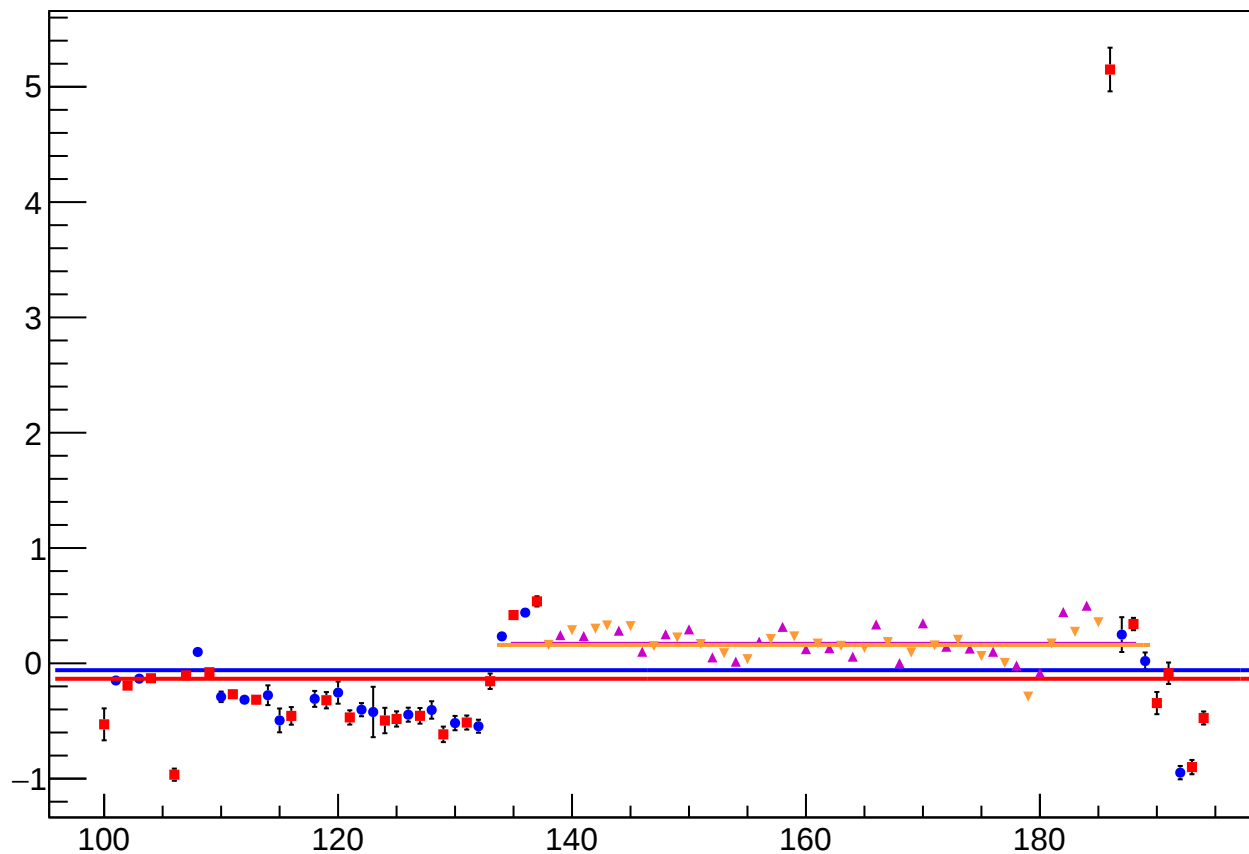
Right: 15.865 $\pm$ 0.135 χ^2 /NDF: 15194.5/44

In: 24.101 $\pm$ 0.061 χ^2 /NDF:12292.1/42

Out: 24.314 $\pm$ 0.060 χ^2 /NDF:13667.4/49

All: 24.209 $\pm$ 0.042 χ^2 /NDF: 25965.8/92

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.059 ± 0.010 χ^2/NDF : 1257.5/19

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.134 ± 0.010 χ^2/NDF : 2210.2/24

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

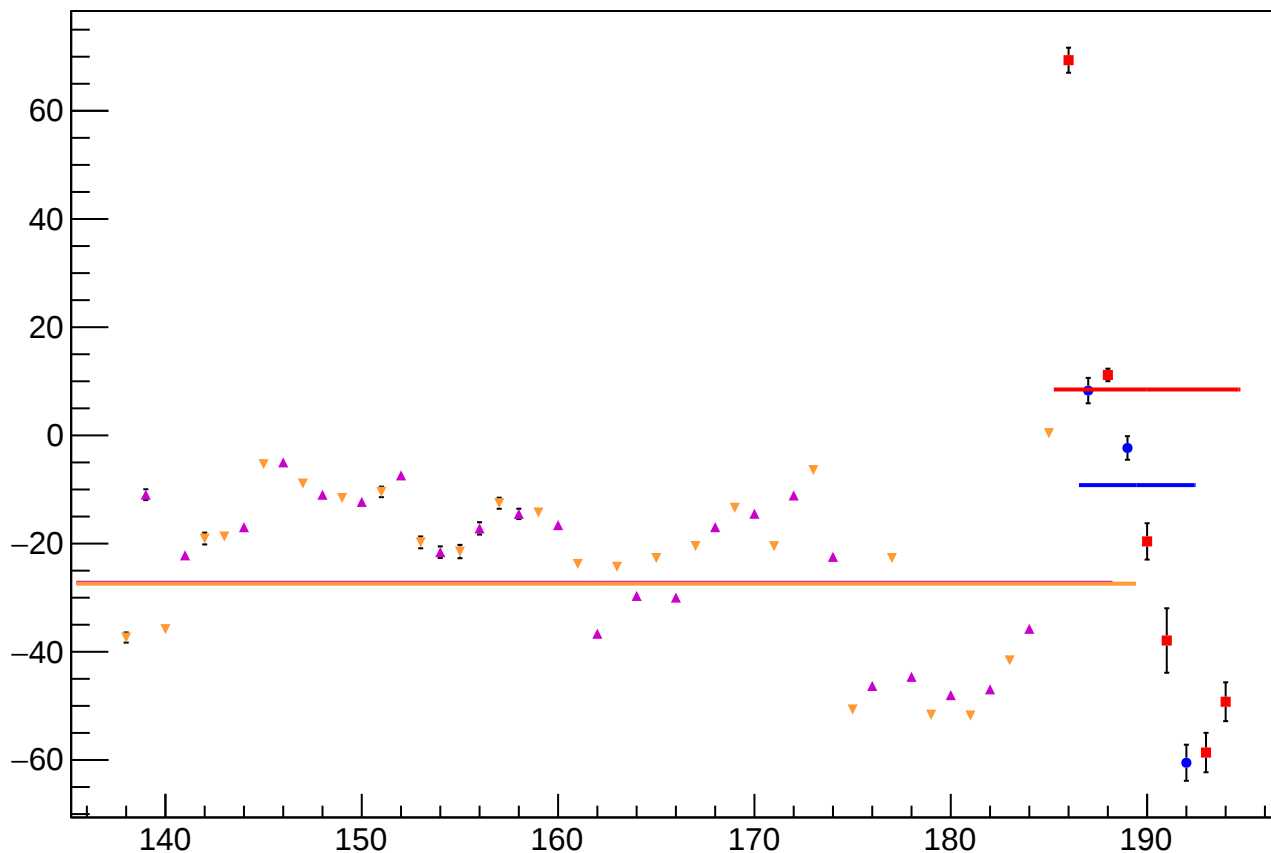
Right: -0.098 ± 0.007 χ^2/NDF : 3495.9/44

In: 0.151 ± 0.003 χ^2/NDF : 4151.6/42

Out: 0.136 ± 0.003 χ^2/NDF : 4902.9/49

All: 0.144 ± 0.002 χ^2/NDF : 9069.1/92

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.191 ± 1.441 χ^2/NDF : 301.8/2

Left Out: -27.408 ± 0.137 χ^2/NDF : 14850.5/24

Right Out: 8.485 ± 0.914 χ^2/NDF : 1423.5/5

Left In: -27.243 ± 0.139 χ^2/NDF : 11305.2/22

Left: -27.327 ± 0.098 χ^2/NDF : 26156.4/47

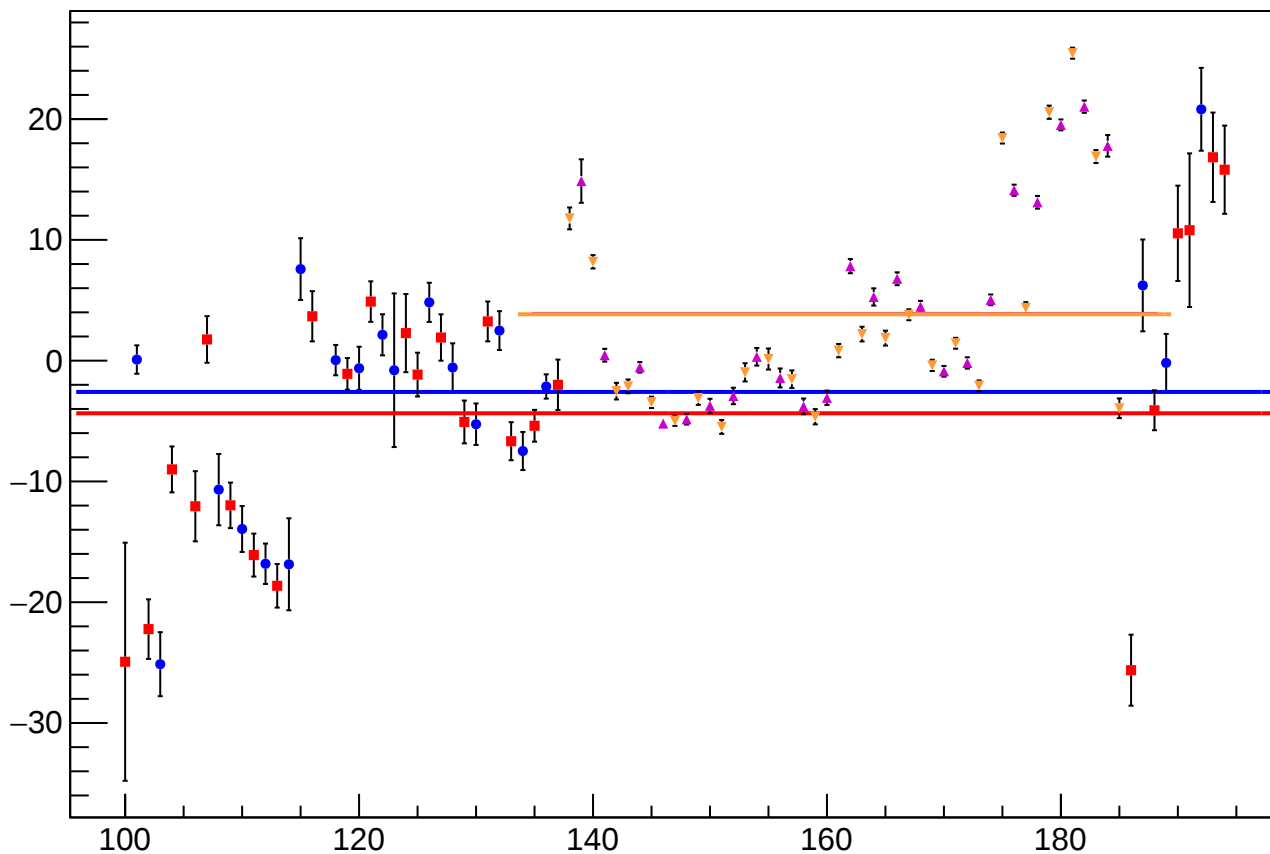
Right: 3.416 ± 0.772 χ^2/NDF : 1832.6/8

In: -27.076 ± 0.139 χ^2/NDF : 11762.4/25

Out: -26.620 ± 0.135 χ^2/NDF : 17783.2/30

All: -26.842 ± 0.097 χ^2/NDF : 29551.2/56

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.590 ± 0.401 $\chi^2/\text{NDF}: 333.3/19$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -4.356 ± 0.402 $\chi^2/\text{NDF}: 433.1/24$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

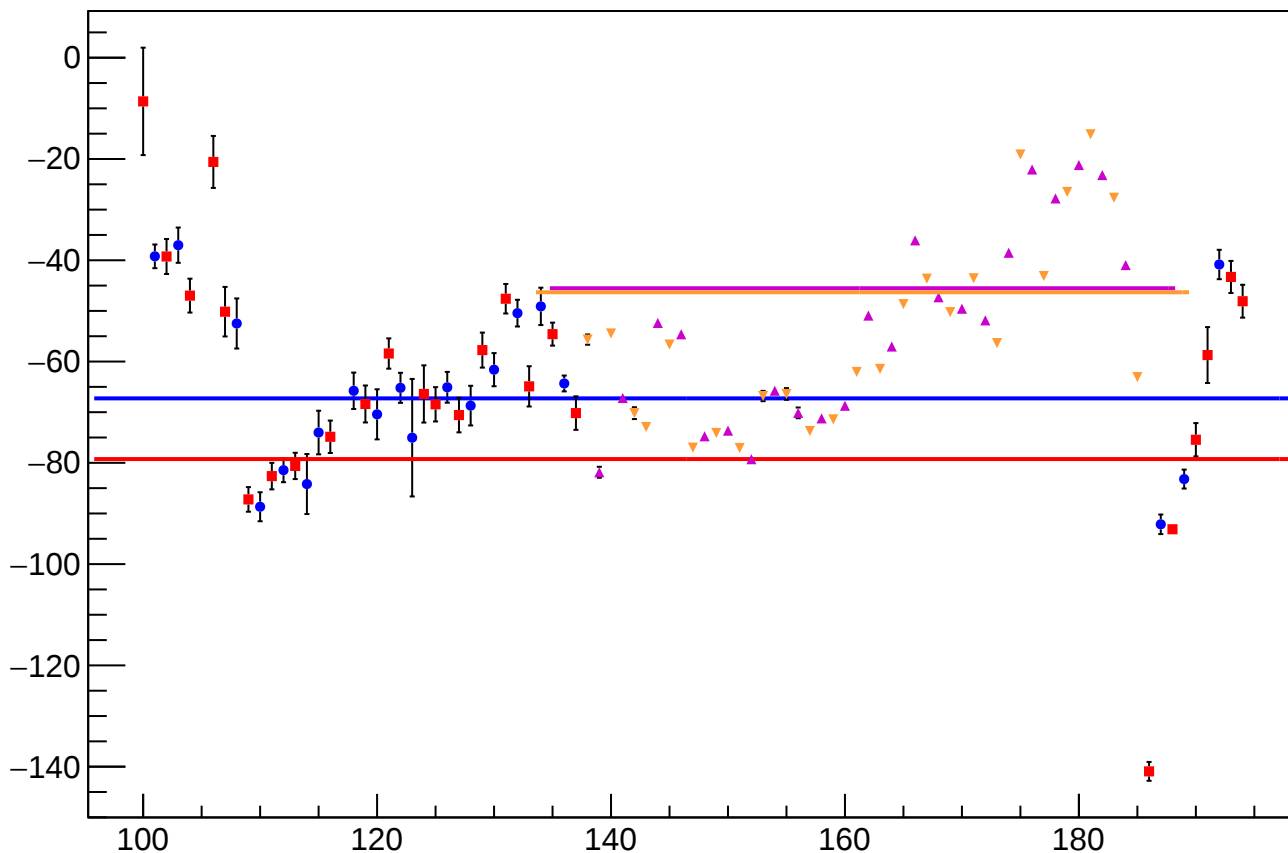
Right: -3.471 ± 0.284 $\chi^2/\text{NDF}: 776.1/44$

In: 3.404 ± 0.107 $\chi^2/\text{NDF}: 5998.4/42$

Out: 3.276 ± 0.105 $\chi^2/\text{NDF}: 7760.3/49$

All: 3.339 ± 0.075 $\chi^2/\text{NDF}: 13759.4/92$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.273+/-0.634 χ^2/NDF : 724.8/19

Left Out: -46.318+/-0.138 χ^2/NDF : 20134.6/24

Right Out: -79.256+/-0.534 χ^2/NDF : 2378.5/24

Left In: -45.522+/-0.140 χ^2/NDF : 17525.4/22

Left: -45.925+/-0.098 χ^2/NDF : 37676.5/47

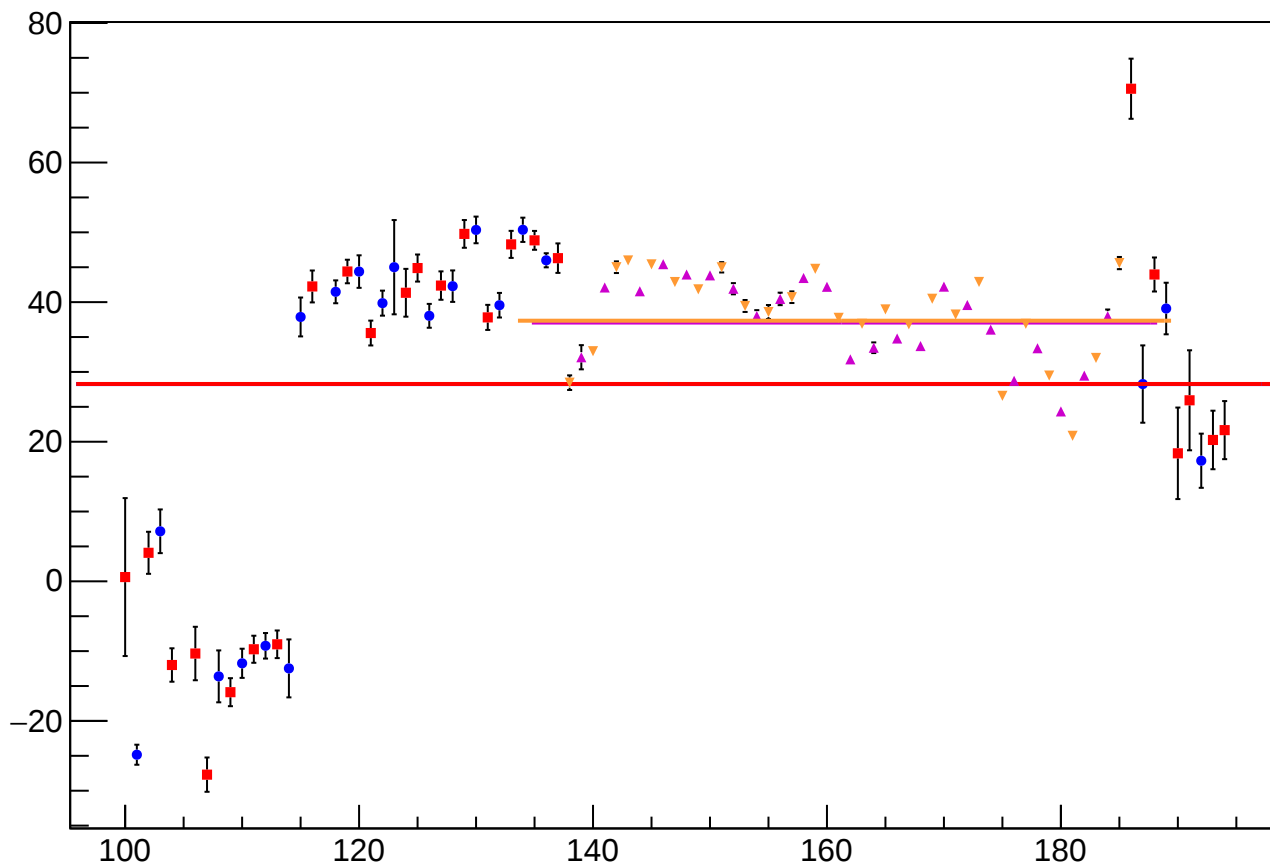
Right: -74.284+/-0.408 χ^2/NDF : 3312.5/44

In: -46.531+/-0.136 χ^2/NDF : 19373.5/42

Out: -48.380+/-0.134 χ^2/NDF : 26083.7/49

All: -47.475+/-0.095 χ^2/NDF : 45551.1/92

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.261 $\pm$ 0.453 χ^2 /NDF: 3327.5/19

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.275 $\pm$ 0.460 χ^2 /NDF: 3181.2/24

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

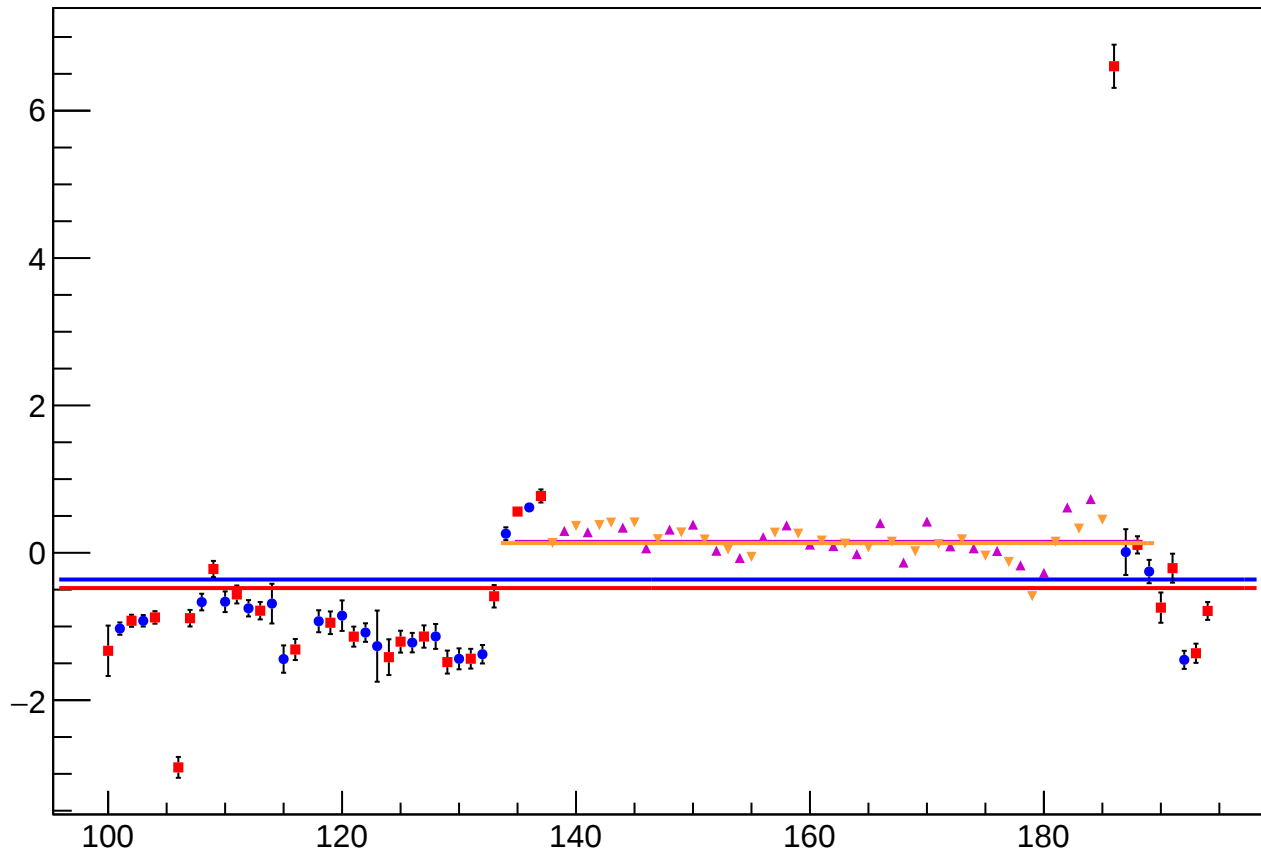
Right: 28.268 $\pm$ 0.323 χ^2 /NDF: 6508.7/44

In: 36.448 $\pm$ 0.121 χ^2 /NDF:6076.9/42

Out: 36.736 $\pm$ 0.119 χ^2 /NDF:6692.9/49

All: 36.594 $\pm$ 0.085 χ^2 /NDF: 12772.7/92

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.362 ± 0.024 $\chi^2/\text{NDF}: 1093.4/19$

Left Out: 0.131 ± 0.006 $\chi^2/\text{NDF}: 1426.3/24$

Right Out: -0.479 ± 0.024 $\chi^2/\text{NDF}: 1825.7/24$

Left In: 0.149 ± 0.006 $\chi^2/\text{NDF}: 1803.6/22$

Left: 0.140 ± 0.004 $\chi^2/\text{NDF}: 3234.6/47$

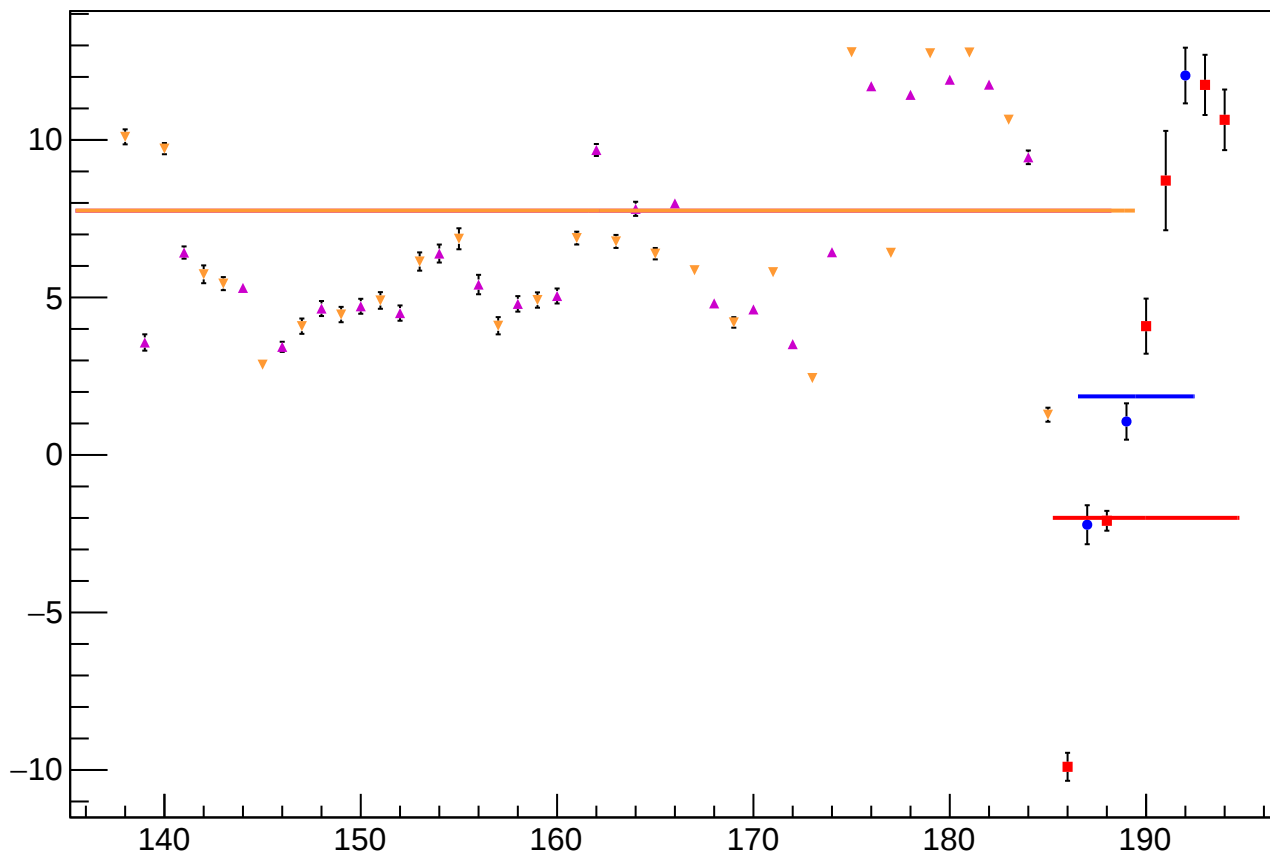
Right: -0.421 ± 0.017 $\chi^2/\text{NDF}: 2930.9/44$

In: 0.121 ± 0.006 $\chi^2/\text{NDF}: 3322.3/42$

Out: 0.099 ± 0.005 $\chi^2/\text{NDF}: 3874.2/49$

All: 0.110 ± 0.004 $\chi^2/\text{NDF}: 7204.7/92$

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.859 ± 0.381 $\chi^2/\text{NDF}: 177.9/2$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: -1.996 ± 0.229 $\chi^2/\text{NDF}: 790.6/5$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

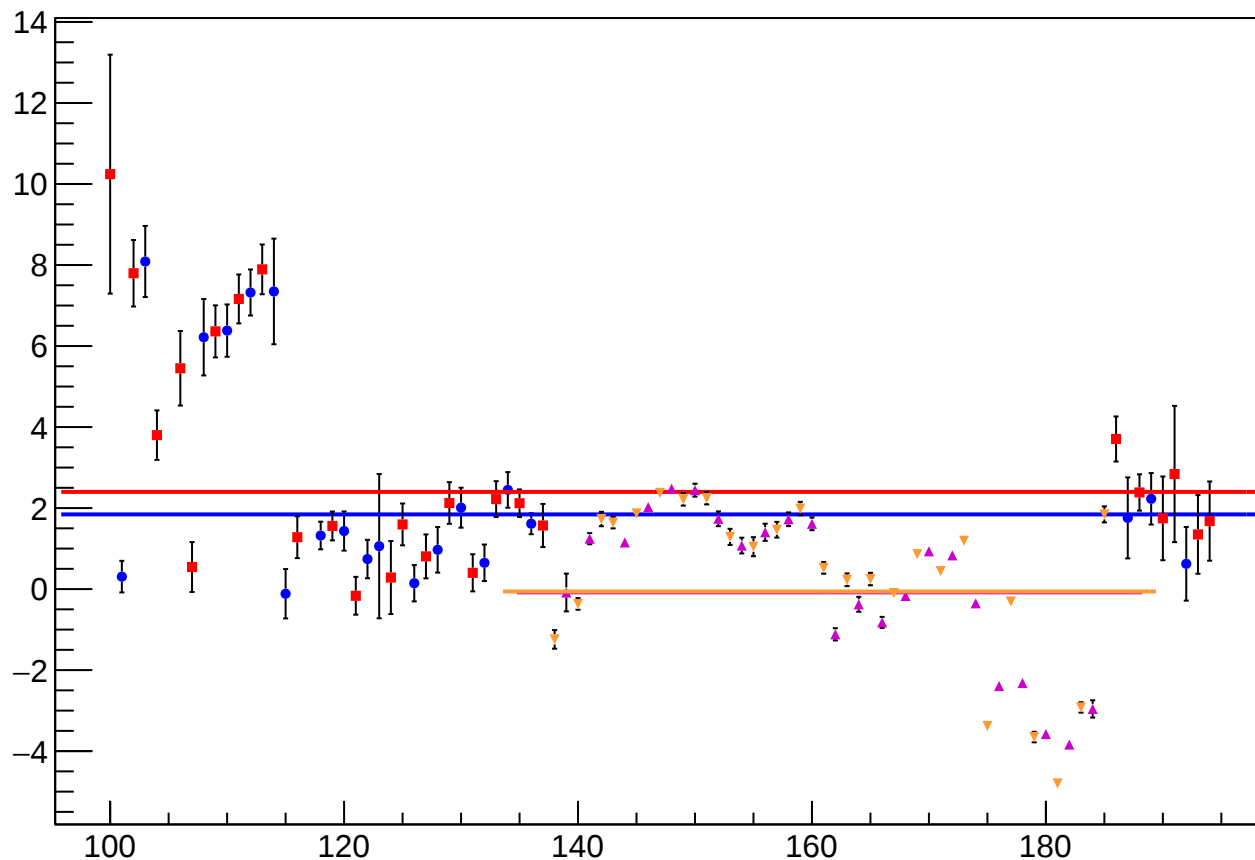
Right: -0.972 ± 0.196 $\chi^2/\text{NDF}: 1043.8/8$

In: 7.703 ± 0.035 $\chi^2/\text{NDF}: 8760.6/25$

Out: 7.543 ± 0.034 $\chi^2/\text{NDF}: 14292.3/30$

All: 7.621 ± 0.024 $\chi^2/\text{NDF}: 23063.8/56$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.844+/-0.114 χ^2/NDF : 295.4/19

Left Out: -0.059+/-0.028 χ^2/NDF : 6068.8/24

Right Out: 2.399+/-0.113 χ^2/NDF : 343.3/24

Left In: -0.080+/-0.028 χ^2/NDF : 4979.5/22

Left: -0.070+/-0.020 χ^2/NDF : 11048.5/47

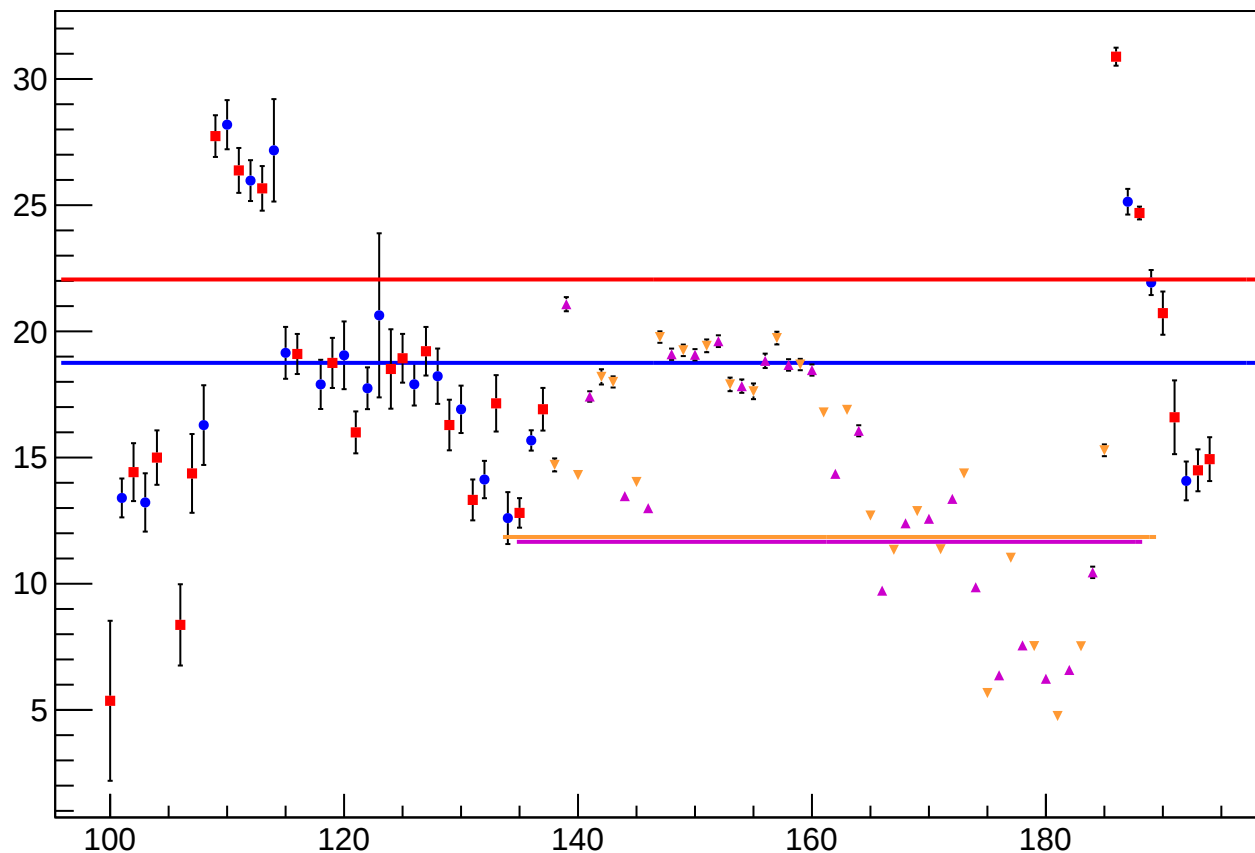
Right: 2.123+/-0.080 χ^2/NDF : 650.7/44

In: 0.032+/-0.027 χ^2/NDF : 5544.6/42

Out: 0.080+/-0.027 χ^2/NDF : 6856.8/49

All: 0.056+/-0.019 χ^2/NDF : 12403.0/92

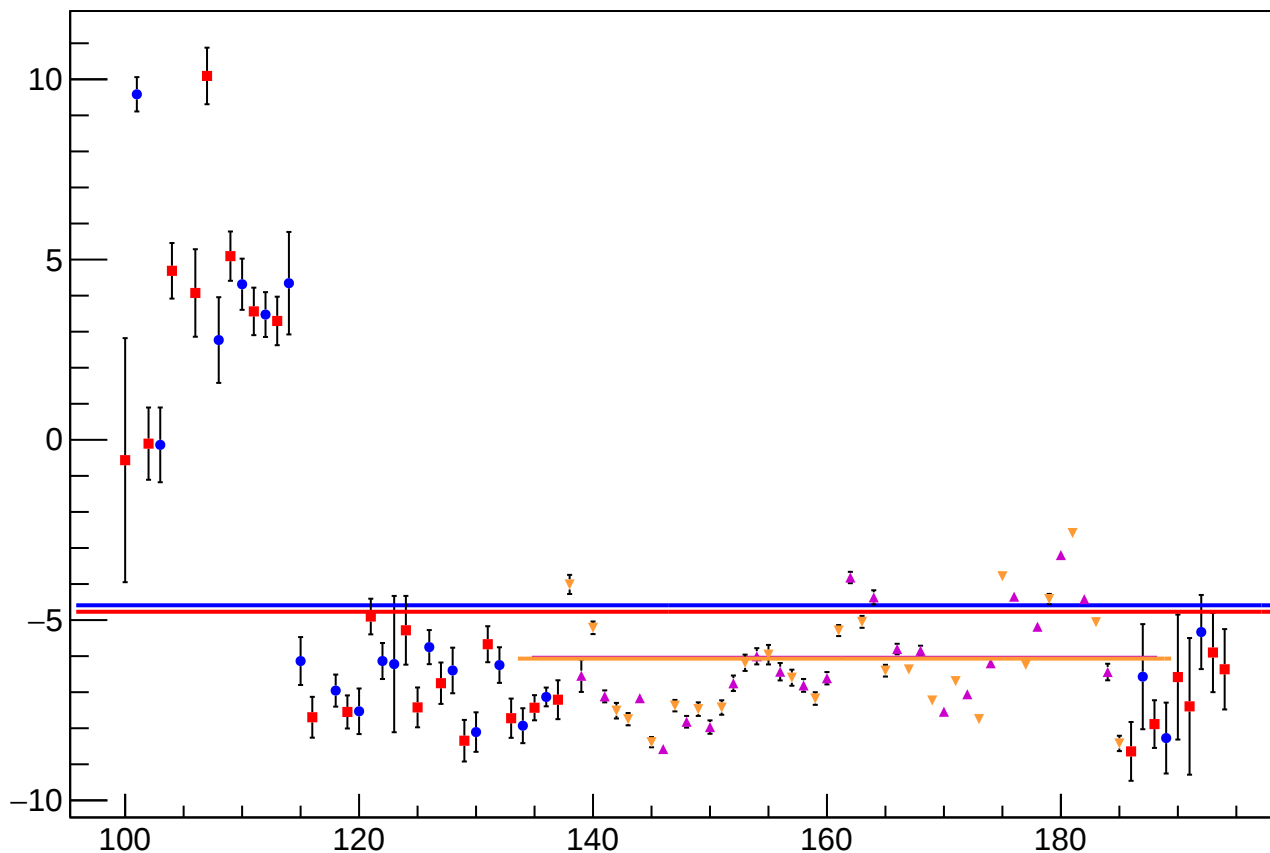
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.752 ± 0.178 χ^2/NDF : 640.9/19
 Left Out: 11.853 ± 0.035 χ^2/NDF : 19149.4/24
 Right Out: 22.056 ± 0.143 χ^2/NDF : 1742.2/24
 Left In: 11.660 ± 0.035 χ^2/NDF : 16710.2/22

Left: 11.758 ± 0.025 χ^2/NDF : 35874.9/47
 Right: 20.754 ± 0.112 χ^2/NDF : 2592.7/44
 In: 11.928 ± 0.035 χ^2/NDF : 18884.7/42
 Out: 12.418 ± 0.034 χ^2/NDF : 25684.1/49
 All: 12.179 ± 0.024 χ^2/NDF : 44671.9/92

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.589 ± 0.128 $\chi^2/\text{NDF}: 1599.7/19$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -4.769 ± 0.130 $\chi^2/\text{NDF}: 1396.5/24$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

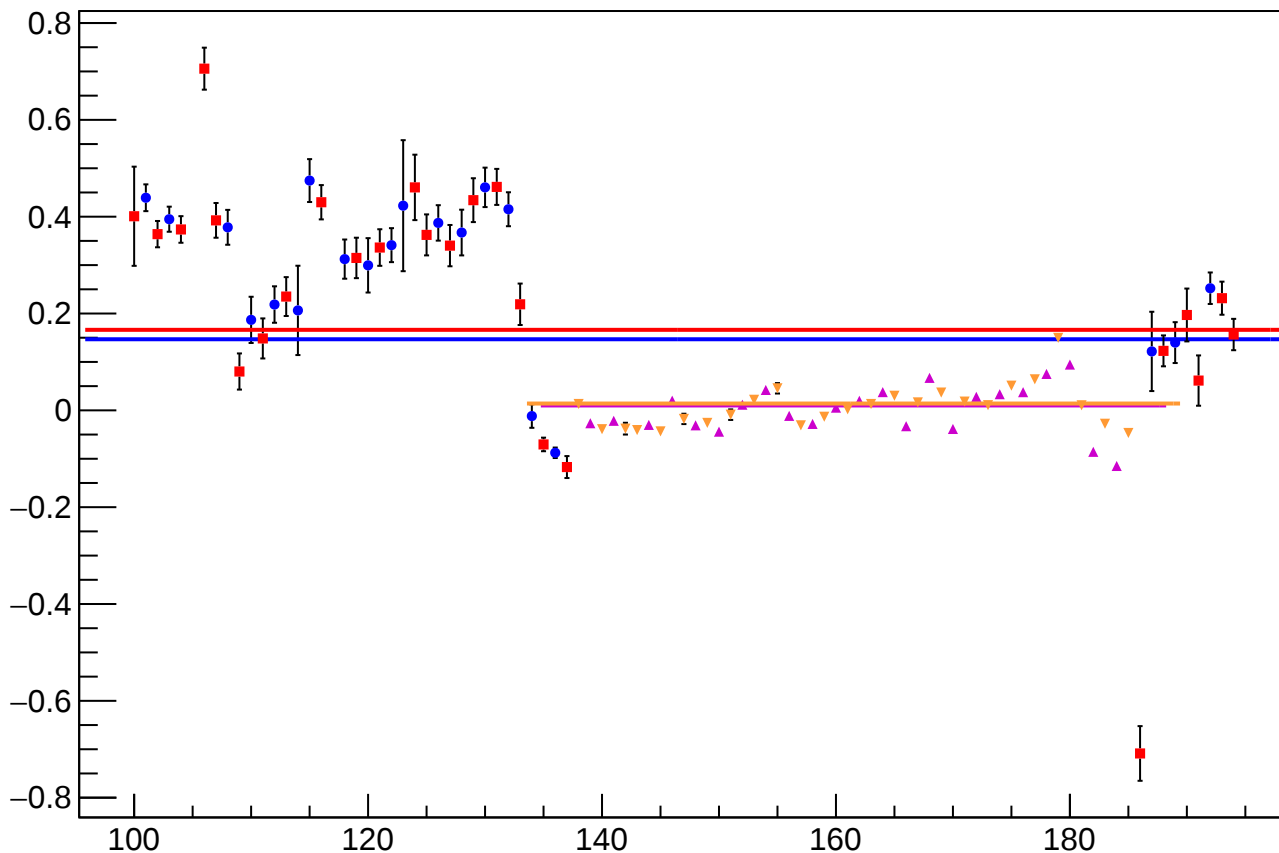
Right: -4.678 ± 0.091 $\chi^2/\text{NDF}: 2997.2/44$

In: -5.961 ± 0.031 $\chi^2/\text{NDF}: 4015.4/42$

Out: -5.998 ± 0.030 $\chi^2/\text{NDF}: 4162.7/49$

All: -5.980 ± 0.022 $\chi^2/\text{NDF}: 8178.8/92$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.147 $\pm$ 0.007 χ^2 /NDF: 1068.8/19

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.166 $\pm$ 0.007 χ^2 /NDF: 1254.0/24

Left In: 0.010 $\pm$ 0.001 χ^2 /NDF: 1216.1/22

Left: 0.012 $\pm$ 0.001 χ^2 /NDF: 2176.2/47

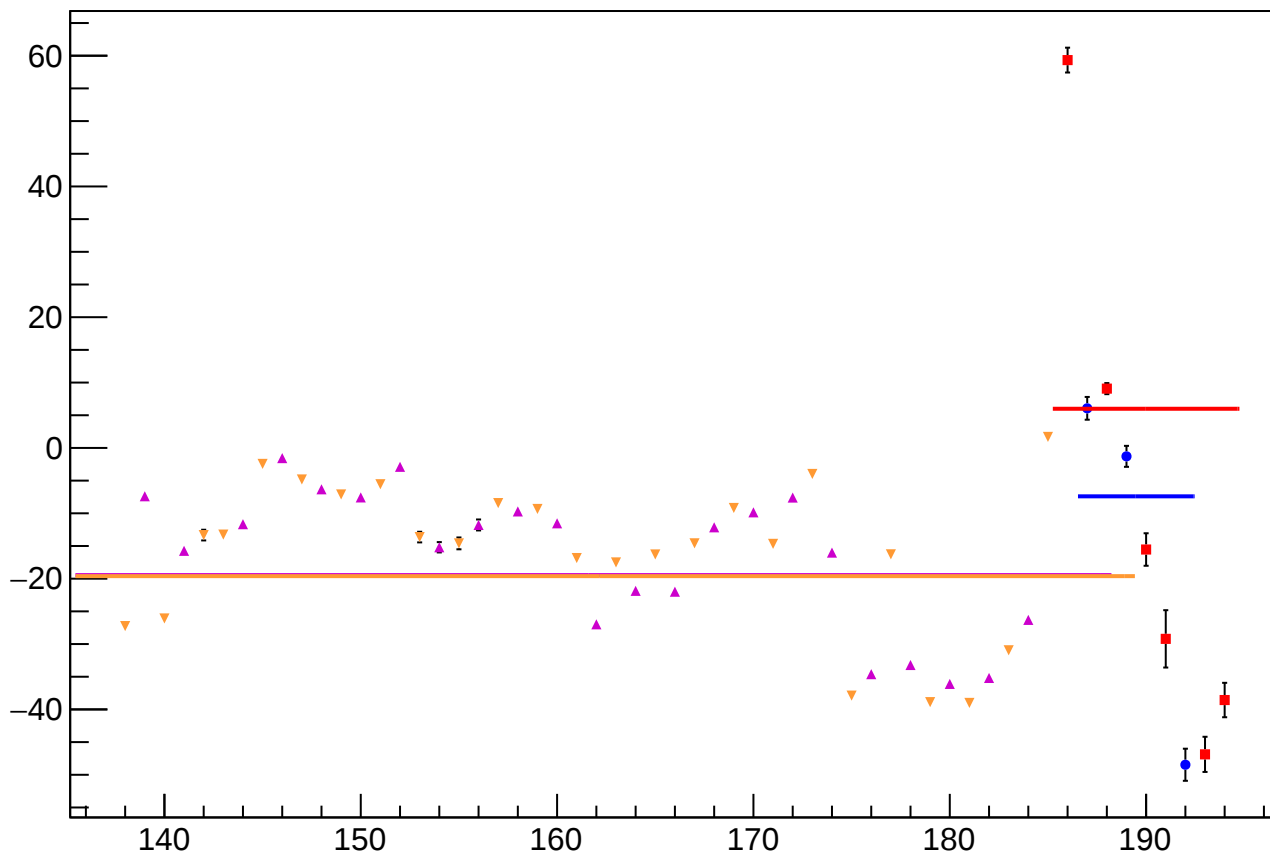
Right: 0.157 $\pm$ 0.005 χ^2 /NDF: 2326.9/44

In: 0.016 $\pm$ 0.001 χ^2 /NDF: 2671.8/42

Out: 0.021 $\pm$ 0.001 χ^2 /NDF: 2698.4/49

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5375.3/92

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.403 ± 1.064 χ^2/NDF : 354.0/2
 Left Out: -19.612 ± 0.103 χ^2/NDF : 15761.3/24
 Right Out: 5.992 ± 0.680 χ^2/NDF : 1612.9/5
 Left In: -19.450 ± 0.105 χ^2/NDF : 12283.1/22

Left: -19.533 ± 0.074 χ^2/NDF : 28045.6/47

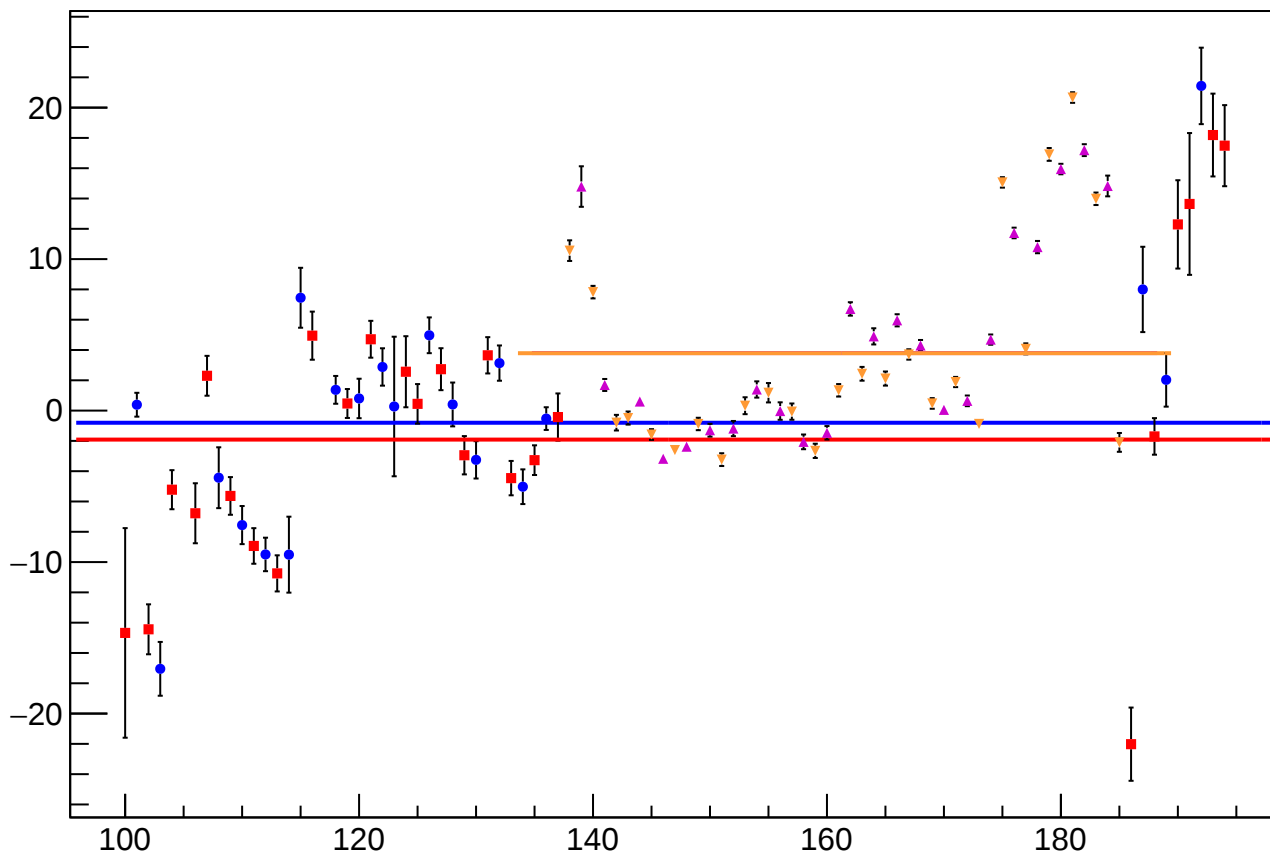
Right: 2.108 ± 0.573 χ^2/NDF : 2079.6/8

In: -19.334 ± 0.105 χ^2/NDF : 12764.2/25

Out: -19.035 ± 0.102 χ^2/NDF : 18760.7/30

All: -19.181 ± 0.073 χ^2/NDF : 31529.1/56

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.802 ± 0.286 χ^2/NDF : 369.1/19

Left Out: 3.788 ± 0.082 χ^2/NDF : 7150.5/24

Right Out: -1.914 ± 0.286 χ^2/NDF : 496.9/24

Left In: 3.799 ± 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 ± 0.059 χ^2/NDF : 12667.5/47

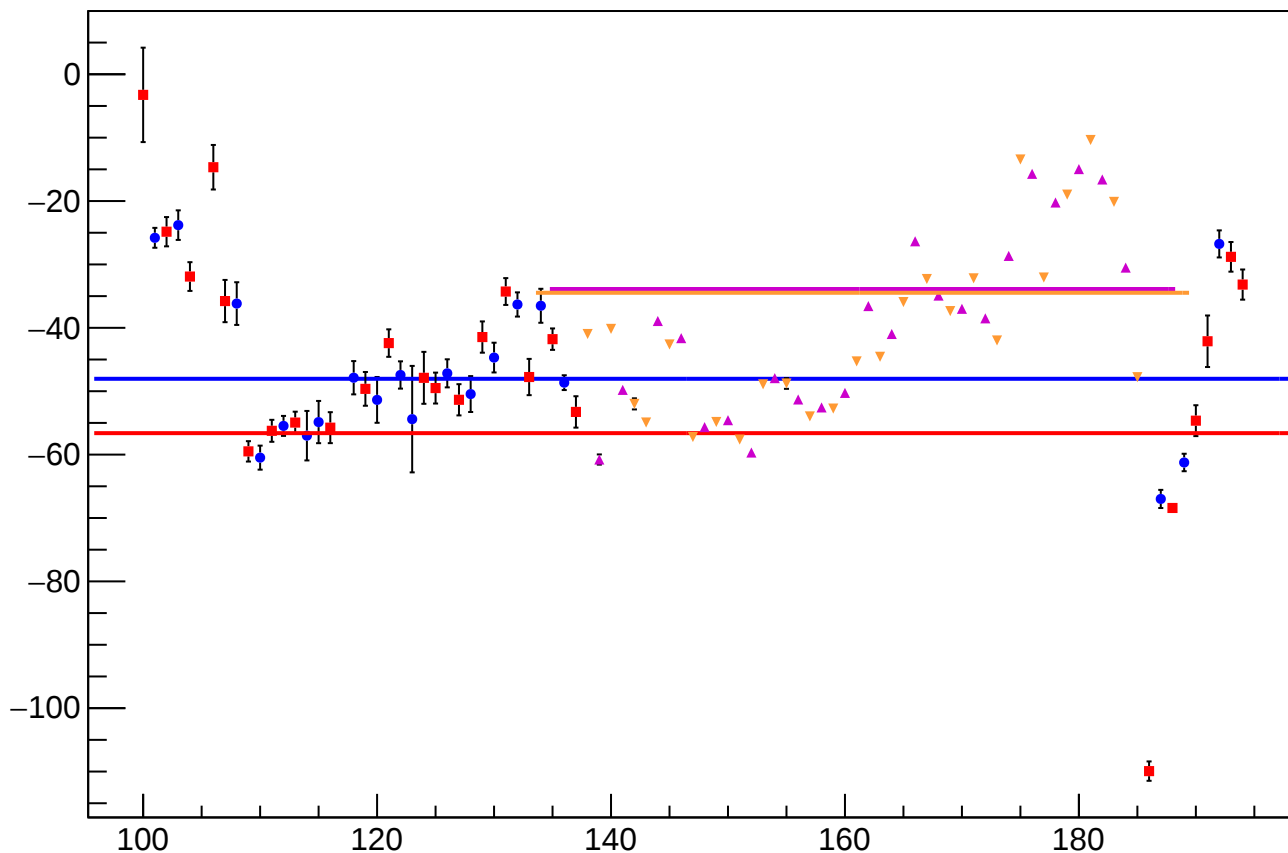
Right: -1.357 ± 0.202 χ^2/NDF : 873.6/44

In: 3.436 ± 0.080 χ^2/NDF : 6125.2/42

Out: 3.355 ± 0.079 χ^2/NDF : 8014.1/49

All: 3.395 ± 0.056 χ^2/NDF : 14139.8/92

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.040 ± 0.454 χ^2/NDF : 823.4/19

Left Out: -34.471 ± 0.104 χ^2/NDF : 20196.3/24

Right Out: -56.615 ± 0.386 χ^2/NDF : 2618.0/24

Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47

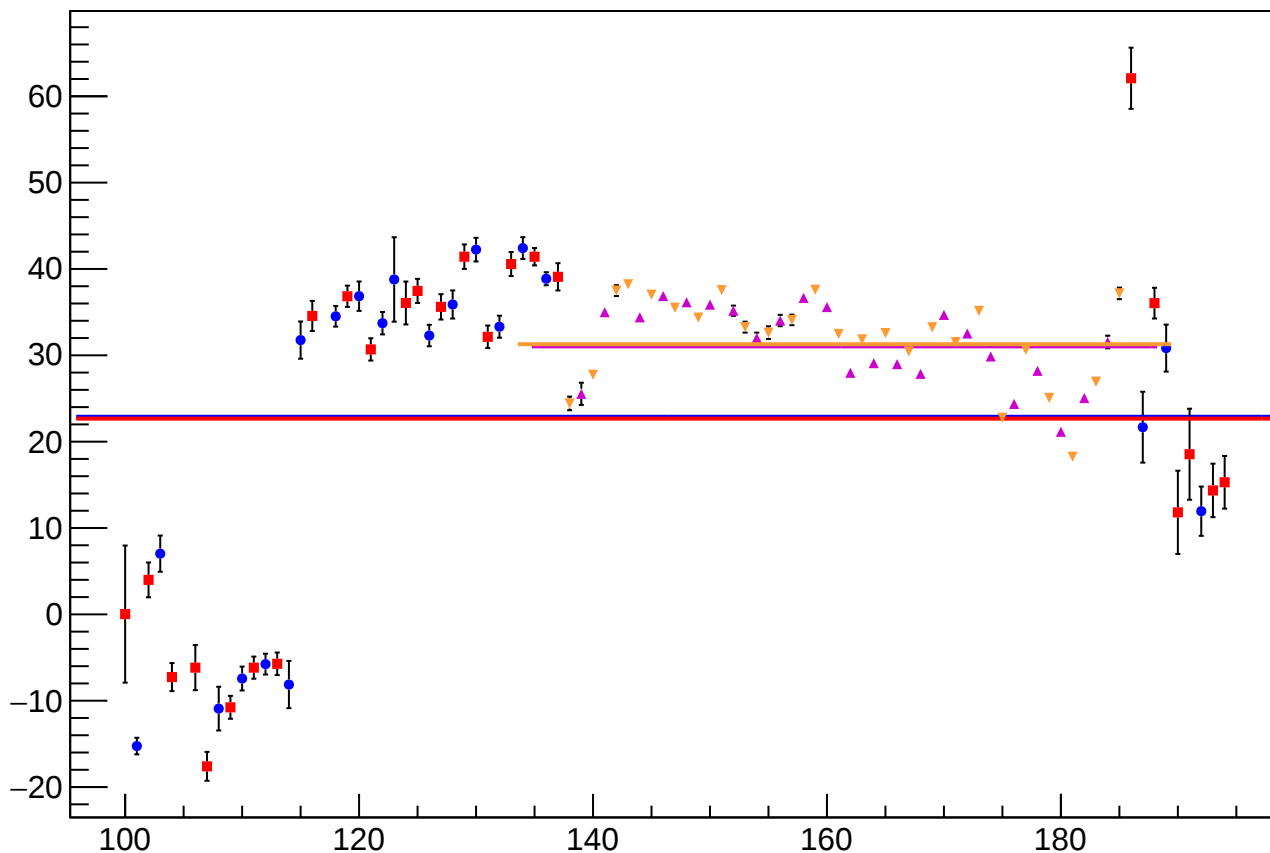
Right: -53.016 ± 0.294 χ^2/NDF : 3648.7/44

In: -34.599 ± 0.103 χ^2/NDF : 19387.4/42

Out: -35.970 ± 0.100 χ^2/NDF : 25886.3/49

All: -35.299 ± 0.072 χ^2/NDF : 45364.9/92

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.881+/-0.323 χ^2/NDF : 4340.5/19

Left Out: 31.286+/-0.092 χ^2/NDF : 3345.7/24

Right Out: 22.668+/-0.328 χ^2/NDF : 4231.9/24

Left In: 31.039+/-0.094 χ^2/NDF : 2480.0/22

Left: 31.165+/-0.066 χ^2/NDF : 5829.2/47

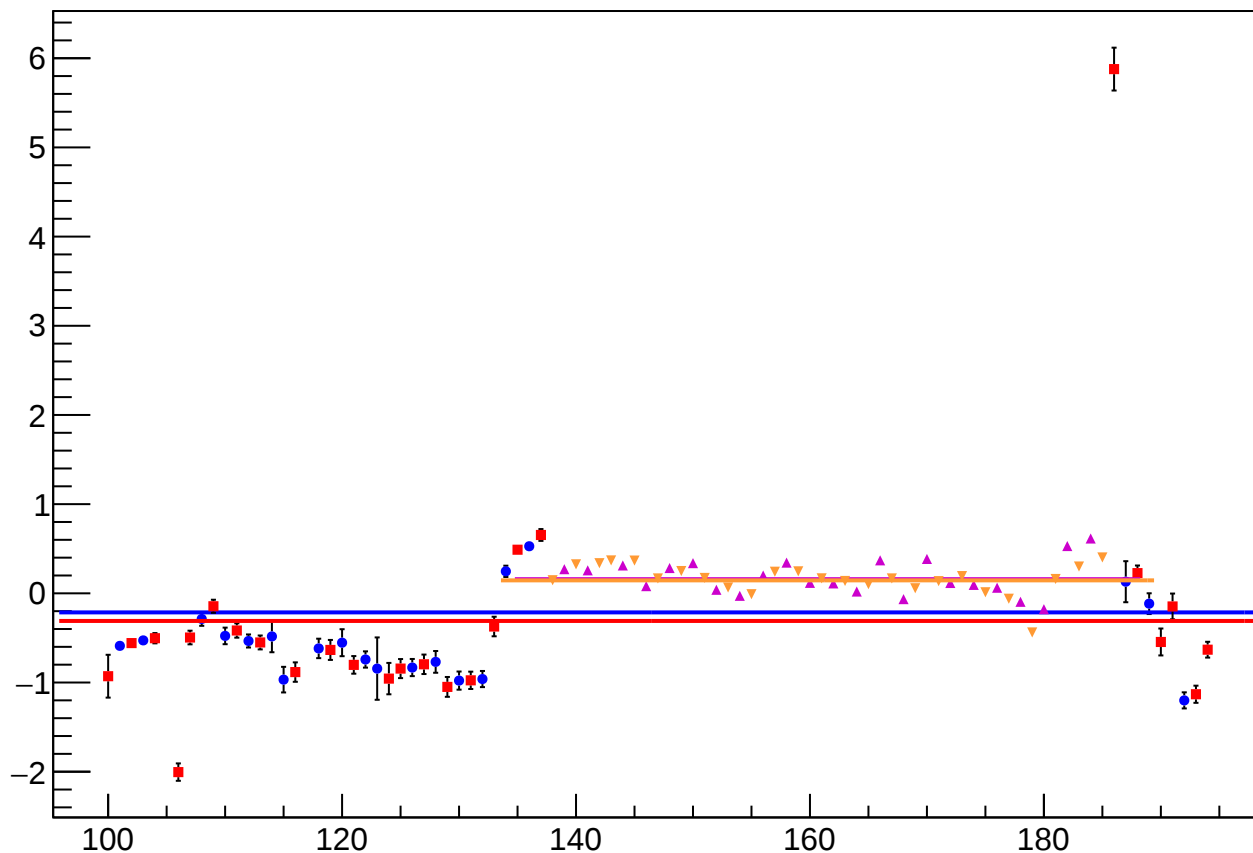
Right: 22.776+/-0.230 χ^2/NDF : 8572.6/44

In: 30.400+/-0.090 χ^2/NDF : 7408.0/42

Out: 30.652+/-0.089 χ^2/NDF : 8218.1/49

All: 30.528+/-0.063 χ^2/NDF : 15630.0/92

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.214 ± 0.017 χ^2/NDF : 1121.1/19

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.310 ± 0.017 χ^2/NDF : 1967.6/24

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

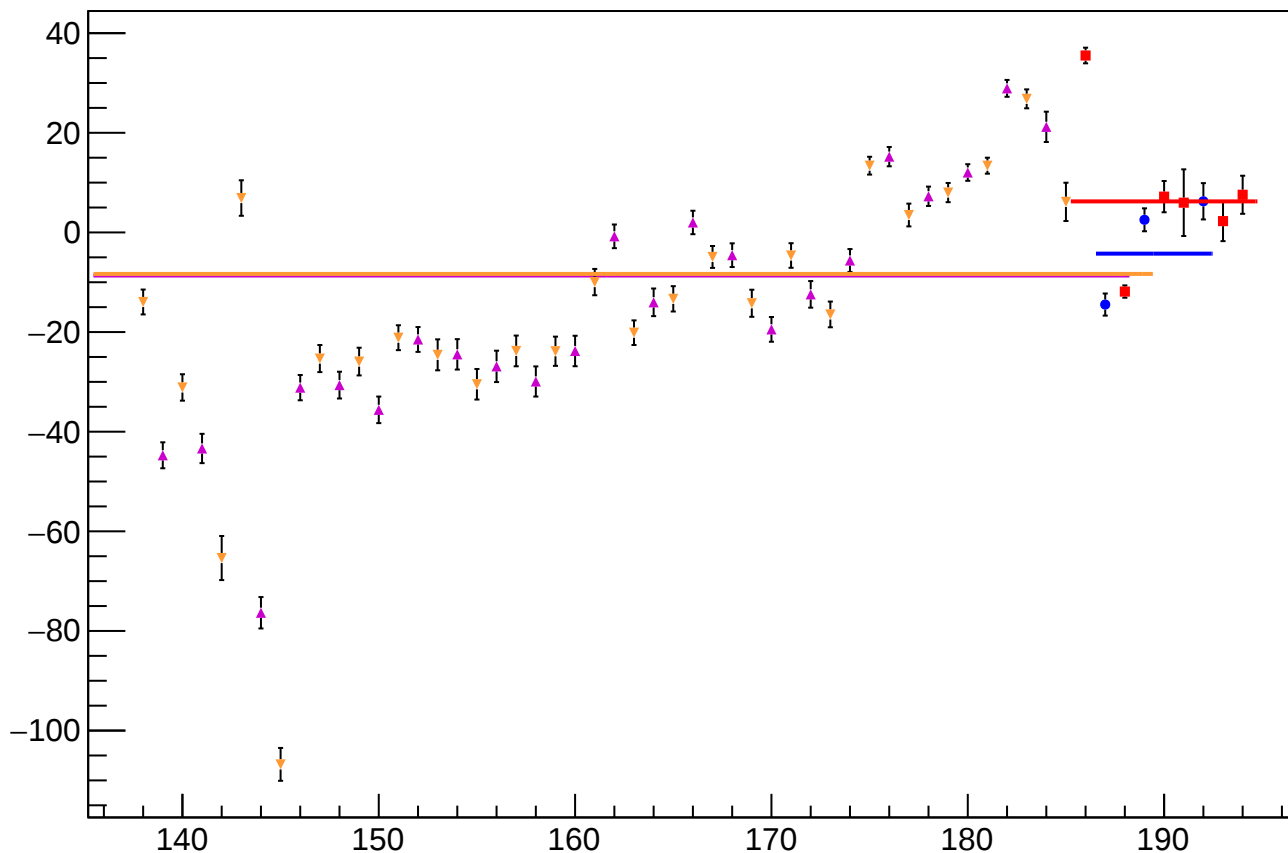
Right: -0.263 ± 0.012 χ^2/NDF : 3104.5/44

In: 0.137 ± 0.004 χ^2/NDF : 3572.0/42

Out: 0.119 ± 0.004 χ^2/NDF : 4228.5/49

All: 0.128 ± 0.003 χ^2/NDF : 7810.2/92

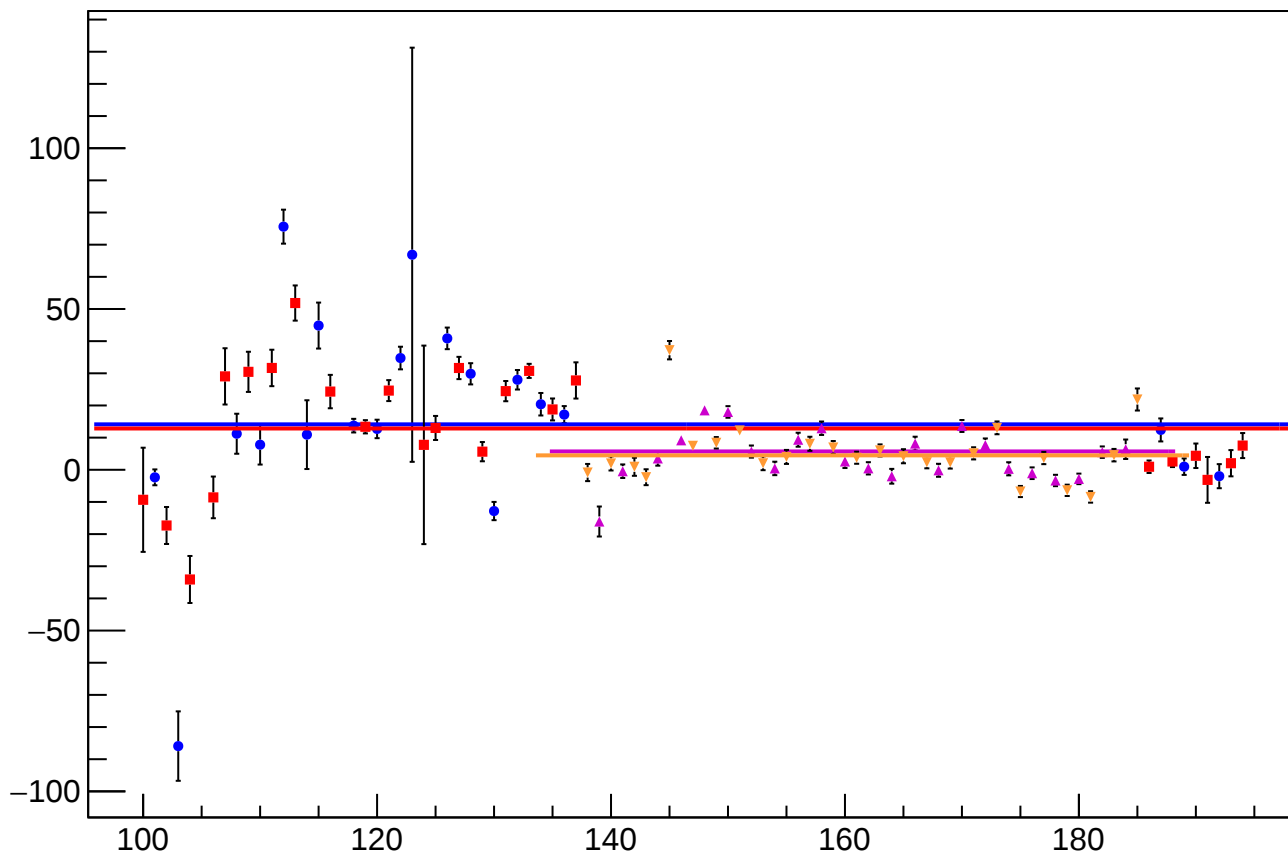
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.256 ± 1.463 χ^2/NDF : 38.2/2
 Left Out: -8.332 ± 0.500 χ^2/NDF : 2226.2/24
 Right Out: 6.230 ± 0.873 χ^2/NDF : 562.1/5
 Left In: -8.652 ± 0.507 χ^2/NDF : 2223.8/22

Left: -8.490 ± 0.356 χ^2/NDF : 4450.2/47
 Right: 3.475 ± 0.750 χ^2/NDF : 638.2/8
 In: -8.180 ± 0.479 χ^2/NDF : 2270.1/25
 Out: -4.742 ± 0.434 χ^2/NDF : 2997.8/30
 All: -6.290 ± 0.322 χ^2/NDF : 5296.2/56

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.126 $\pm$ 0.777 χ^2 /NDF: 568.1/19

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF: 371.9/24

Right Out: 12.842 $\pm$ 0.698 χ^2 /NDF: 390.2/24

Left In: 5.705 $\pm$ 0.404 χ^2 /NDF: 324.1/22

Left: 5.076 $\pm$ 0.281 χ^2 /NDF: 700.6/47

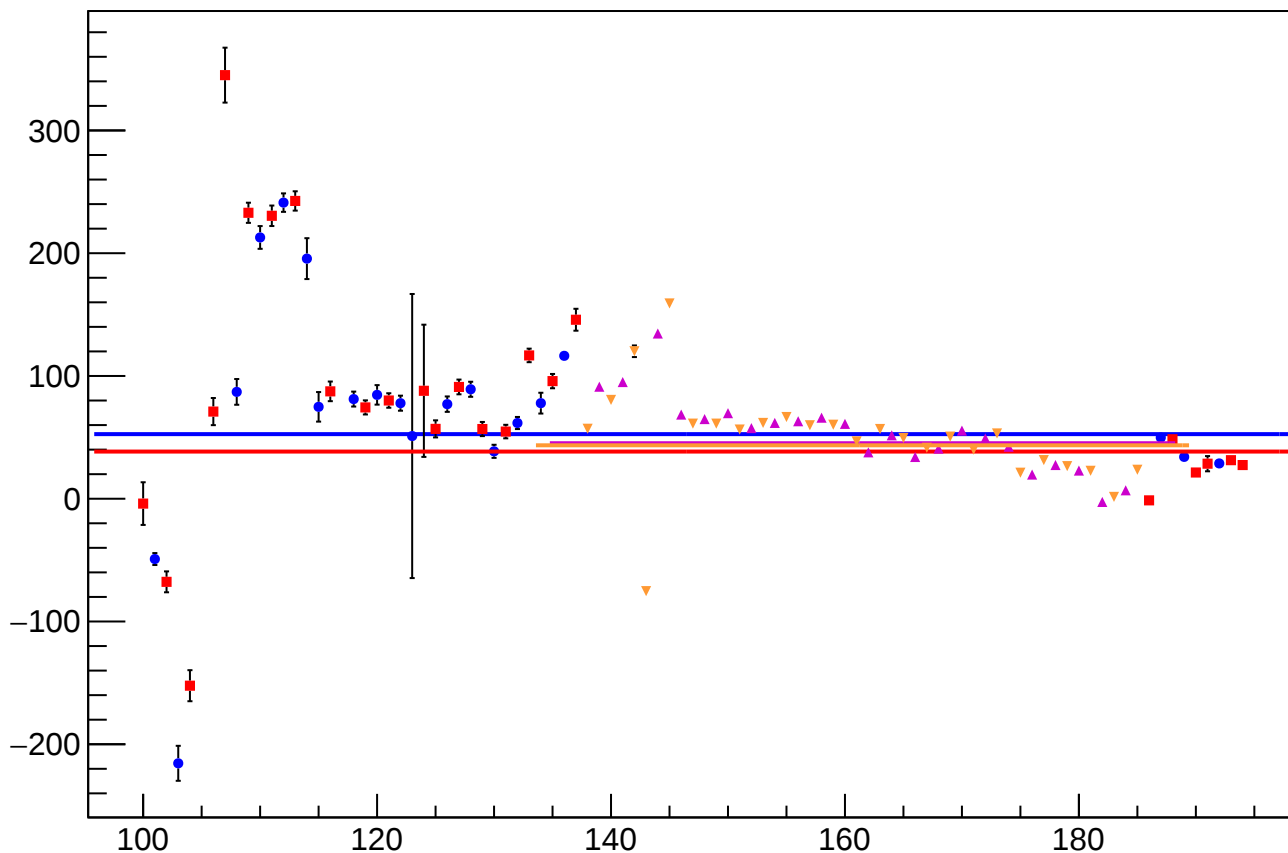
Right: 13.415 $\pm$ 0.519 χ^2 /NDF: 959.8/44

In: 7.497 $\pm$ 0.359 χ^2 /NDF: 984.5/42

Out: 6.491 $\pm$ 0.342 χ^2 /NDF: 871.1/49

All: 6.969 $\pm$ 0.247 χ^2 /NDF: 1859.7/92

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 52.624+/-0.983 χ^2/NDF : 2325.9/19

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 38.423+/-0.663 χ^2/NDF : 4170.0/24

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

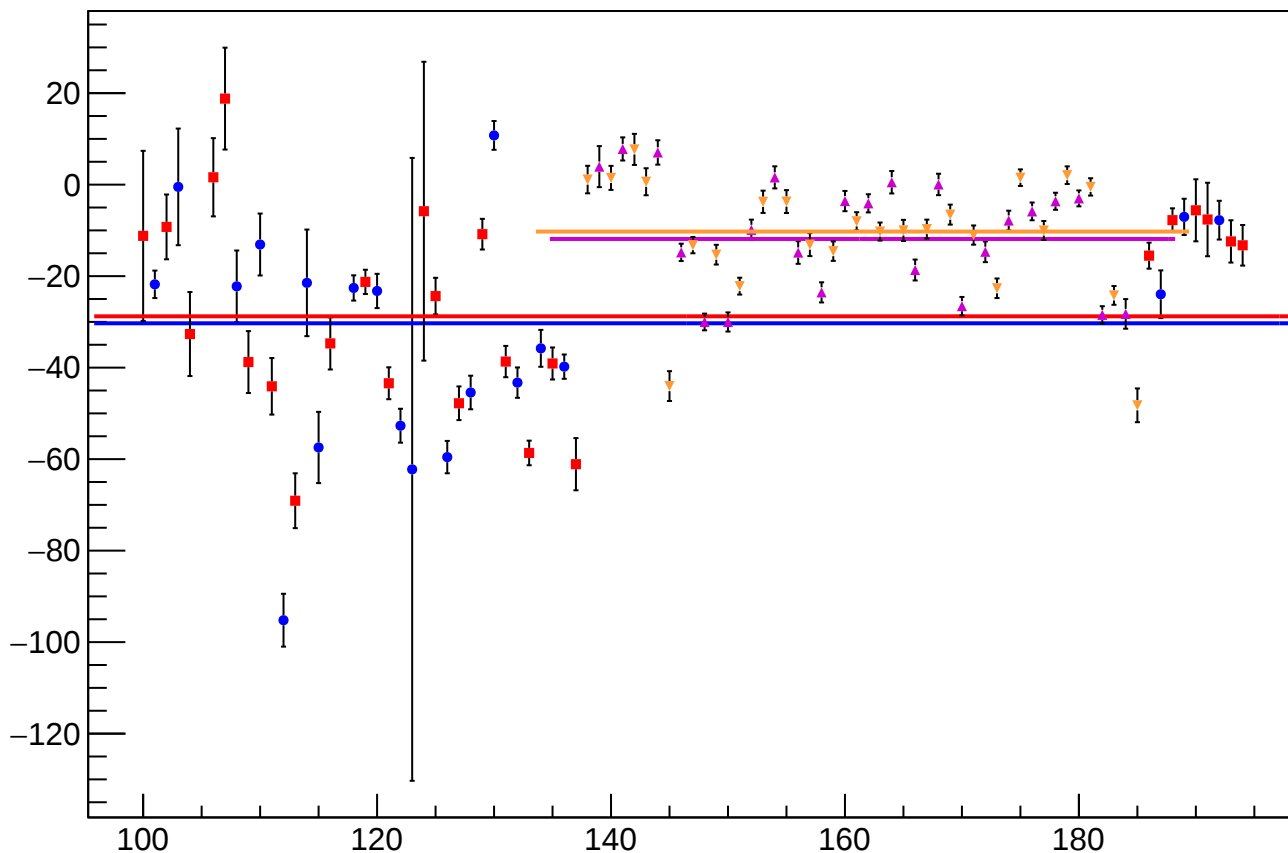
Right: 42.858+/-0.550 χ^2/NDF : 6639.3/44

In: 46.755+/-0.449 χ^2/NDF : 5419.4/42

Out: 41.681+/-0.398 χ^2/NDF : 8038.5/49

All: 43.917+/-0.298 χ^2/NDF : 13529.4/92

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.306 $\pm$ 0.917 χ^2/NDF : 558.3/19

Left Out: -10.257 $\pm$ 0.444 χ^2/NDF : 552.4/24

Right Out: -28.783 $\pm$ 0.858 χ^2/NDF : 480.7/24

Left In: -11.877 $\pm$ 0.456 χ^2/NDF : 666.2/22

Left: -11.046 $\pm$ 0.318 χ^2/NDF : 1225.1/47

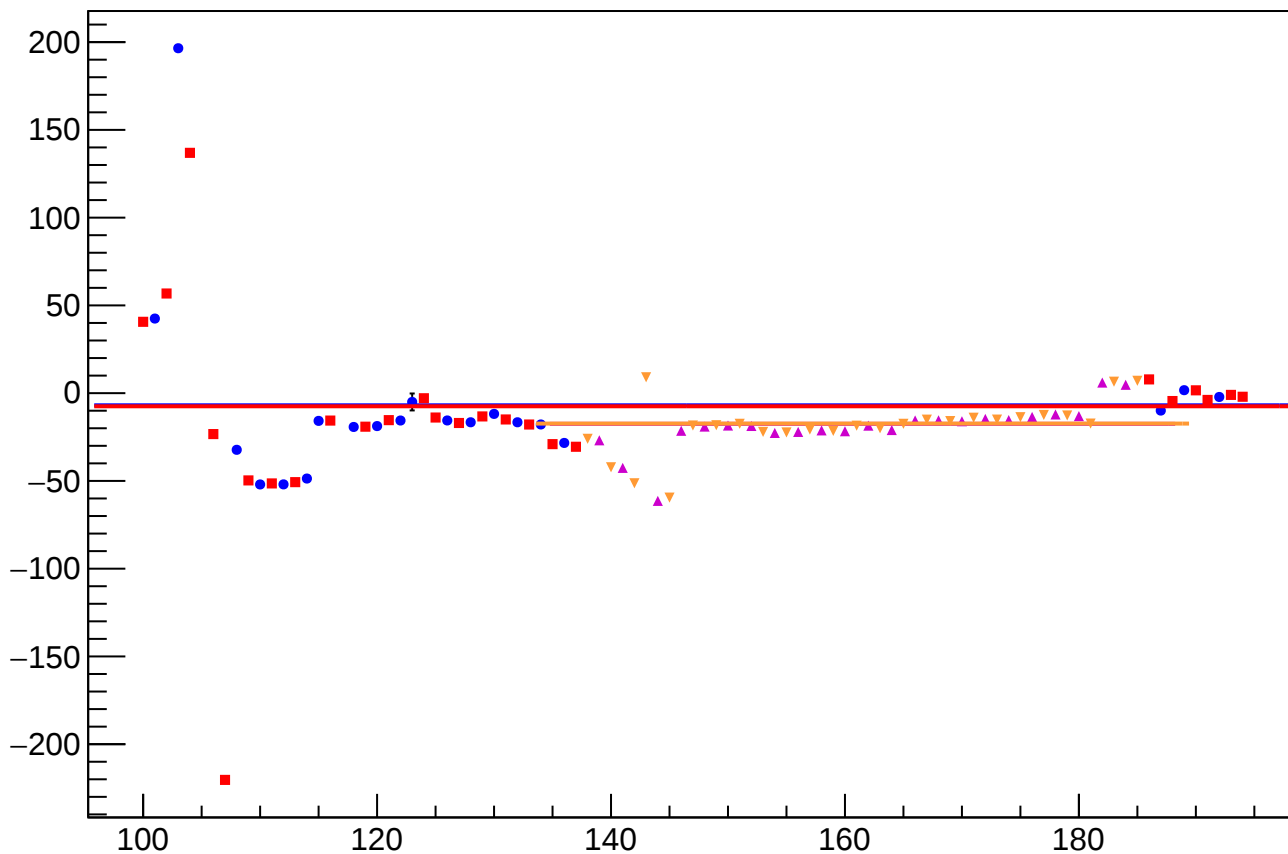
Right: -29.494 $\pm$ 0.627 χ^2/NDF : 1040.5/44

In: -15.533 $\pm$ 0.408 χ^2/NDF : 1548.4/42

Out: -14.173 $\pm$ 0.395 χ^2/NDF : 1400.8/49

All: -14.829 $\pm$ 0.284 χ^2/NDF : 2954.9/92

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.921 ± 0.051 $\chi^2/\text{NDF}: 579985.8/19$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -7.481 ± 0.045 $\chi^2/\text{NDF}: 578509.9/24$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

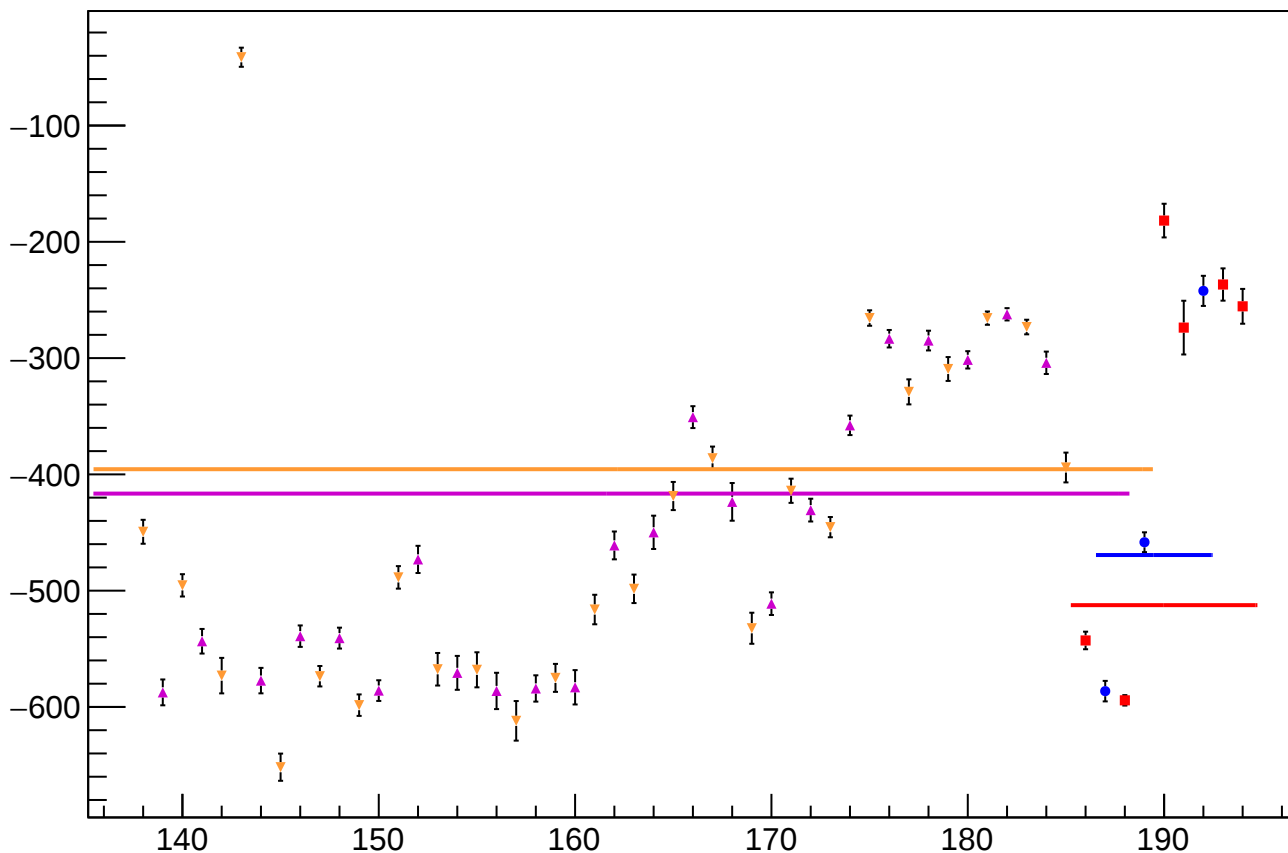
Right: -7.236 ± 0.034 $\chi^2/\text{NDF}: 1158563.5/44$

In: -16.003 ± 0.019 $\chi^2/\text{NDF}: 875982.4/42$

Out: -15.652 ± 0.019 $\chi^2/\text{NDF}: 943492.0/49$

All: -15.822 ± 0.013 $\chi^2/\text{NDF}: 1819647.6/92$

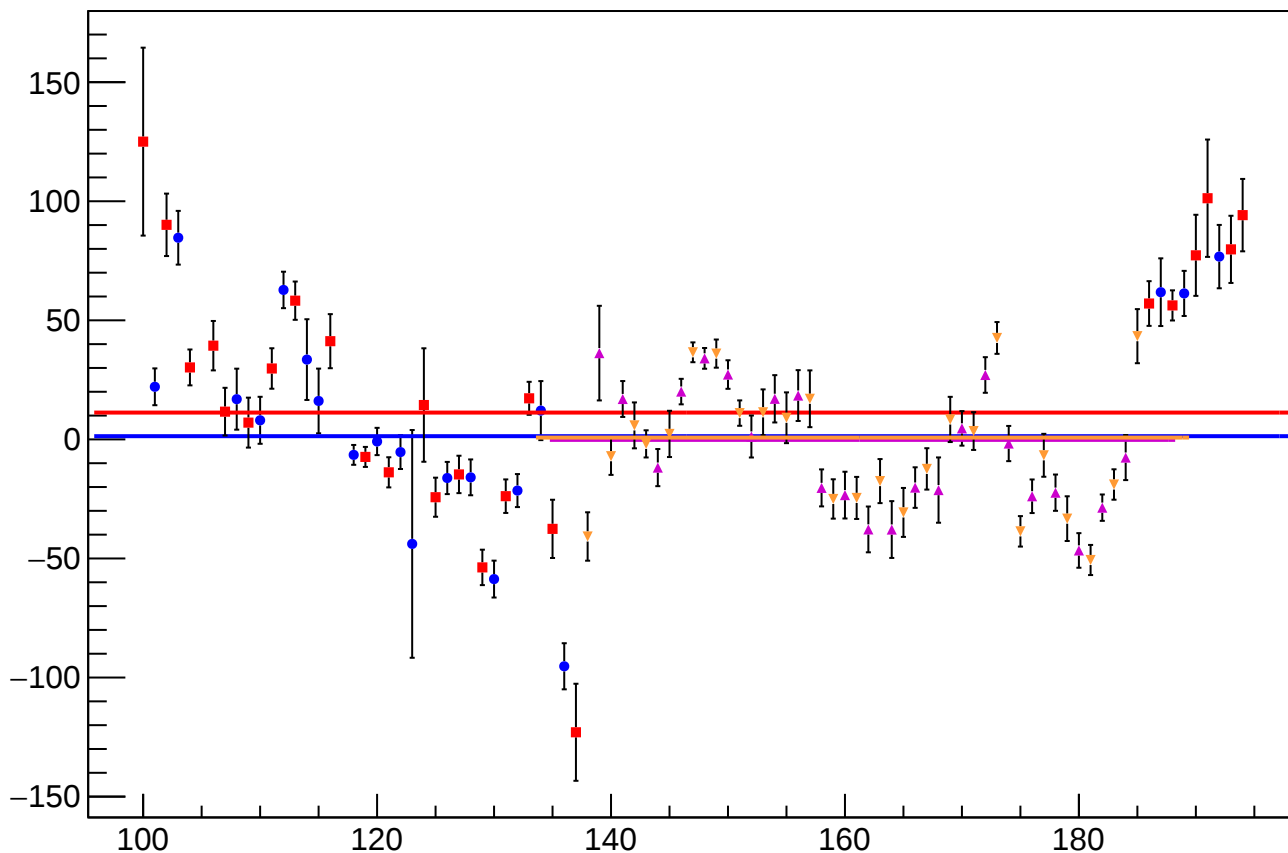
reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -469.349 ± 5.540 $\chi^2/\text{NDF}: 485.6/2$
 Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$
 Right Out: -512.457 ± 3.460 $\chi^2/\text{NDF}: 1666.8/5$
 Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$
 Right: -500.360 ± 2.935 $\chi^2/\text{NDF}: 2195.9/8$
 In: -422.639 ± 1.885 $\chi^2/\text{NDF}: 4483.0/25$
 Out: -423.806 ± 1.701 $\chi^2/\text{NDF}: 8479.1/30$
 All: -423.282 ± 1.263 $\chi^2/\text{NDF}: 12962.3/56$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.351 ± 1.853 χ^2/NDF : 411.9/19

Left Out: 0.767 ± 1.503 χ^2/NDF : 350.1/24

Right Out: 11.262 ± 1.760 χ^2/NDF : 486.7/24

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

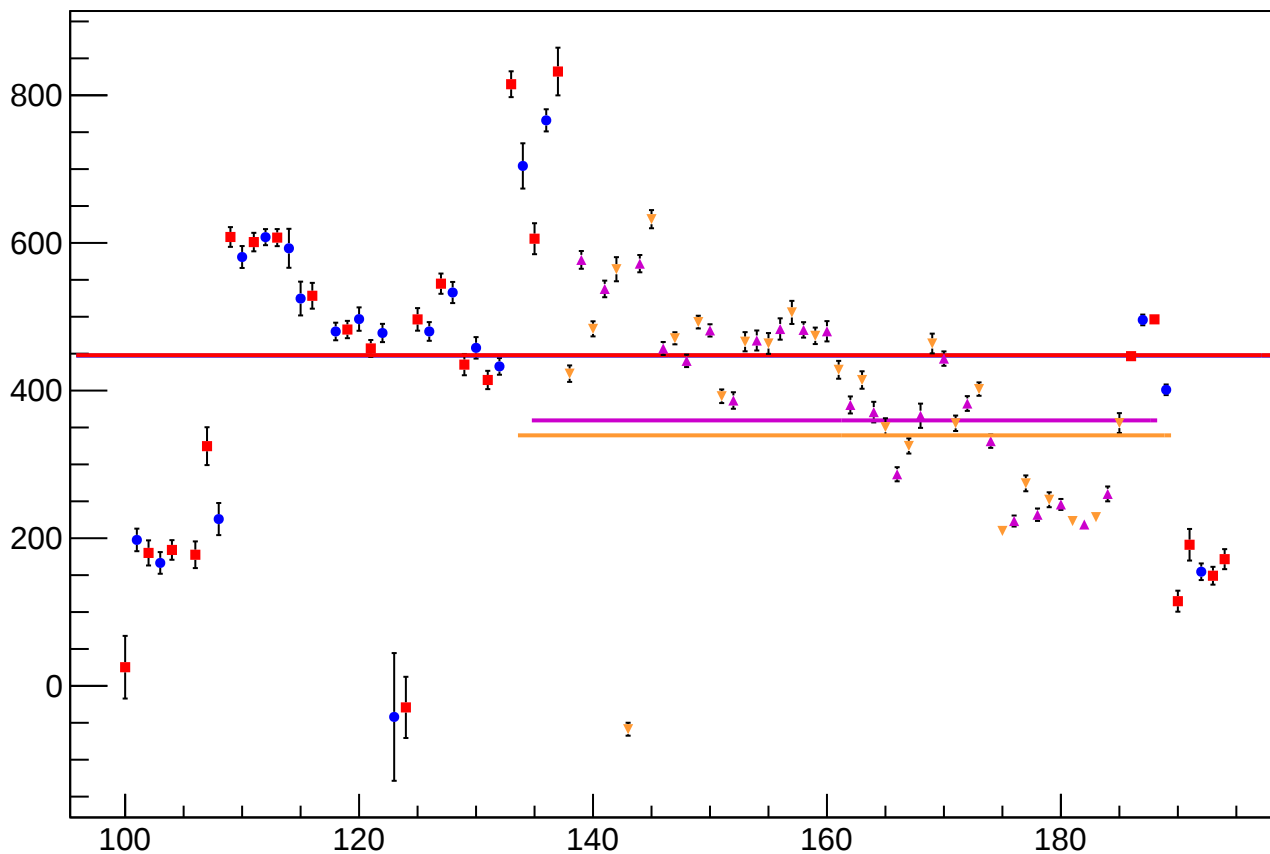
Right: 6.562 ± 1.276 χ^2/NDF : 913.6/44

In: 0.449 ± 1.200 χ^2/NDF : 673.1/42

Out: 5.192 ± 1.143 χ^2/NDF : 857.4/49

All: 2.937 ± 0.828 χ^2/NDF : 1538.6/92

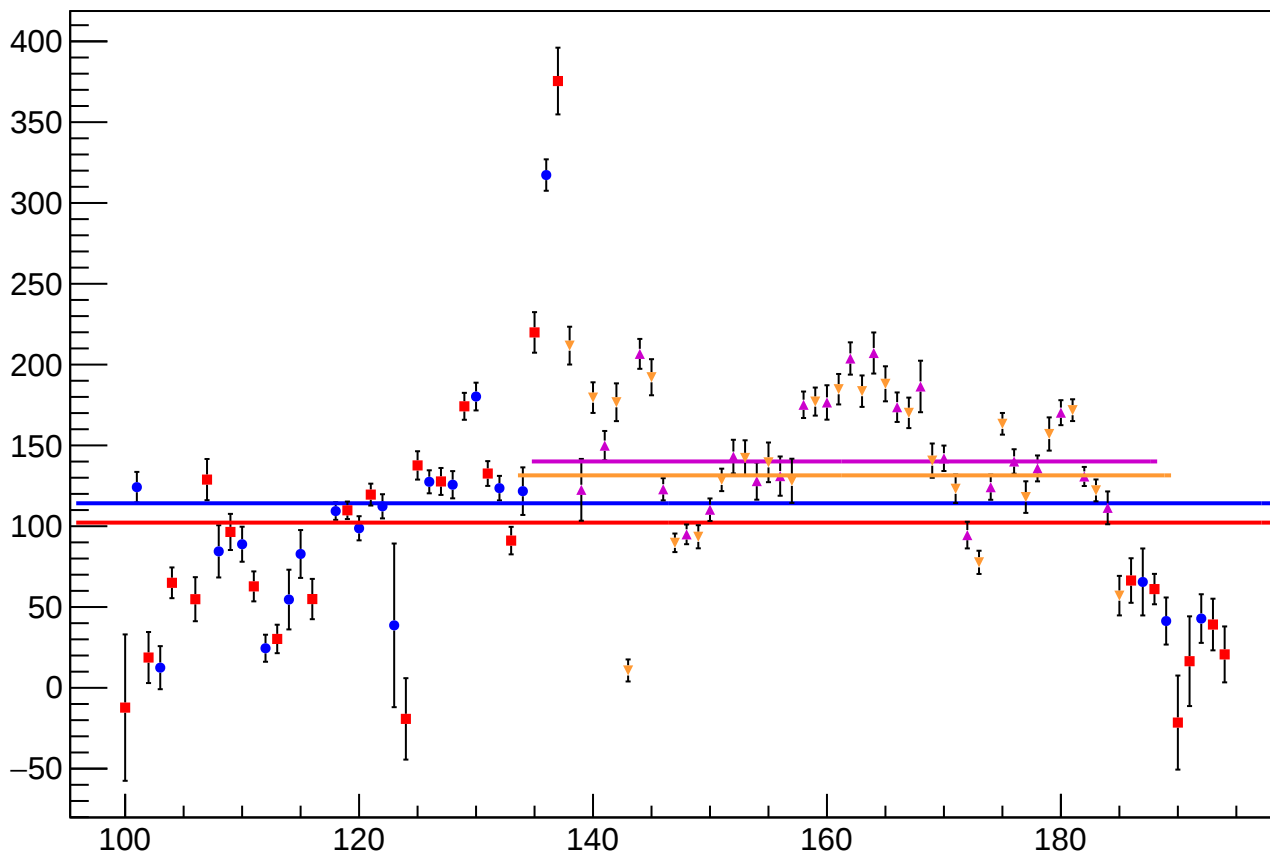
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 447.387 $\pm$ 2.881 χ^2 /NDF: 2459.4/19
 Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24
 Right Out: 447.916 $\pm$ 2.217 χ^2 /NDF: 4239.7/24
 Left In: 359.609 $\pm$ 2.003 χ^2 /NDF:3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47
 Right: 447.719 $\pm$ 1.757 χ^2 /NDF: 6699.1/44
 In: 388.199 $\pm$ 1.644 χ^2 /NDF:6483.7/42
 Out: 387.044 $\pm$ 1.470 χ^2 /NDF:11086.2/49
 All: 387.557 $\pm$ 1.096 χ^2 /NDF: 17570.1/92

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 114.196 $\pm$ 2.170 χ^2 /NDF: 761.0/19

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF:809.3/24

Right Out: 102.228 $\pm$ 2.080 χ^2 /NDF: 669.4/24

Left In: 140.069 $\pm$ 1.795 χ^2 /NDF:316.5/22

Left: 135.602 $\pm$ 1.245 χ^2 /NDF: 1137.8/47

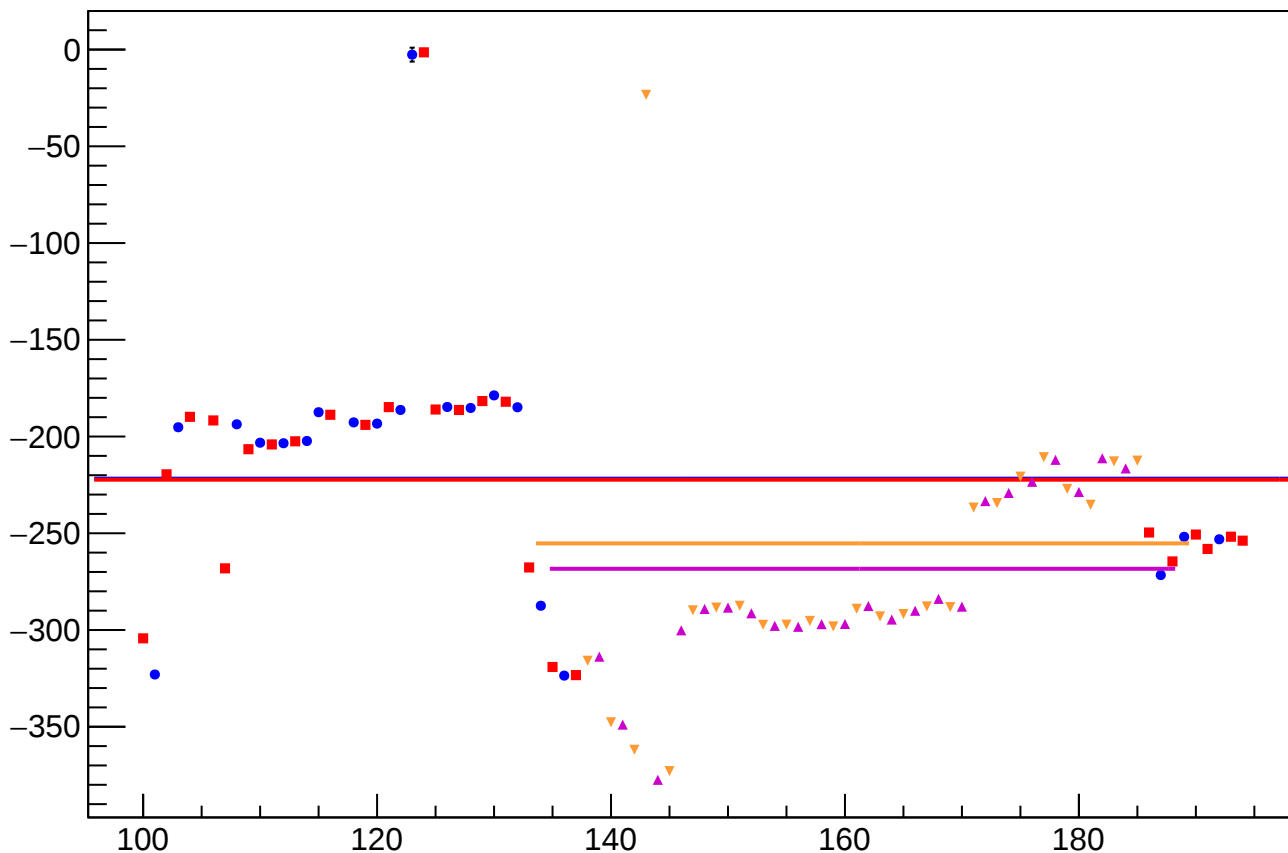
Right: 107.959 $\pm$ 1.501 χ^2 /NDF: 1446.3/44

In: 129.554 $\pm$ 1.383 χ^2 /NDF:1162.0/42

Out: 119.528 $\pm$ 1.329 χ^2 /NDF:1595.6/49

All: 124.341 $\pm$ 0.958 χ^2 /NDF: 2785.0/92

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -221.777 $\pm$ 0.128 χ^2 /NDF: 155816.2/19

Left Out: -255.232 $\pm$ 0.082 χ^2 /NDF: 728016.7/24

Right Out: -222.308 $\pm$ 0.115 χ^2 /NDF: 140402.8/24

Left In: -268.353 $\pm$ 0.084 χ^2 /NDF: 262479.3/22

Left: -261.661 $\pm$ 0.059 χ^2 /NDF: 1003051.2/47

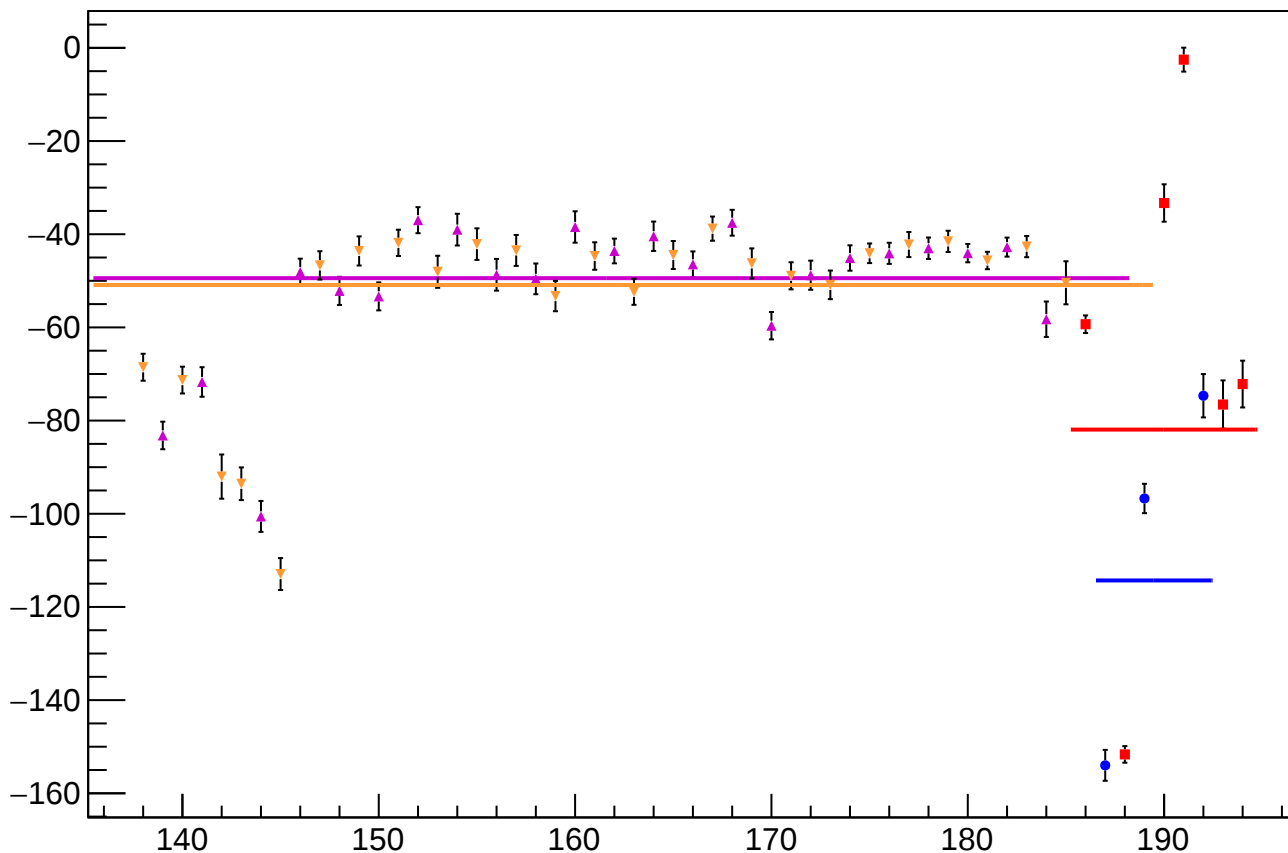
Right: -222.071 $\pm$ 0.086 χ^2 /NDF: 296228.4/44

In: -254.440 $\pm$ 0.070 χ^2 /NDF: 510963.4/42

Out: -244.162 $\pm$ 0.067 χ^2 /NDF: 922671.5/49

All: -249.057 $\pm$ 0.048 χ^2 /NDF: 1444916.1/92

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -114.313+/-2.051 χ^2/NDF : 246.9/2

Left Out: -50.897+/-0.573 χ^2/NDF : 761.1/24

Right Out: -81.934+/-1.062 χ^2/NDF : 2784.8/5

Left In: -49.432+/-0.584 χ^2/NDF : 543.4/22

Left: -50.179+/-0.409 χ^2/NDF : 1307.8/47

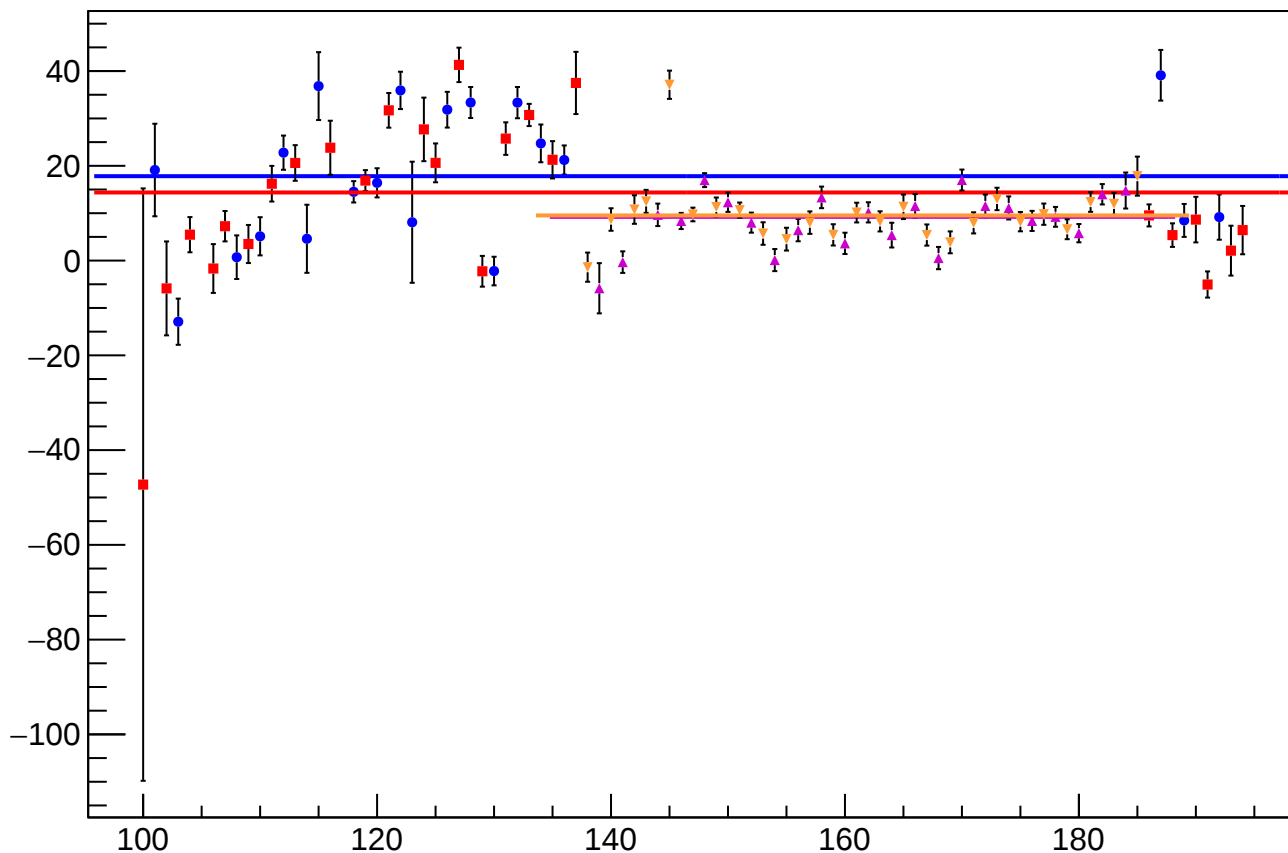
Right: -88.778+/-0.943 χ^2/NDF : 3228.3/8

In: -54.298+/-0.562 χ^2/NDF : 1716.2/25

Out: -57.894+/-0.504 χ^2/NDF : 4207.9/30

All: -56.289+/-0.375 χ^2/NDF : 5946.8/56

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.814 $\pm$ 0.862 χ^2 /NDF: 233.1/19

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 14.374 $\pm$ 0.719 χ^2 /NDF: 301.1/24

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

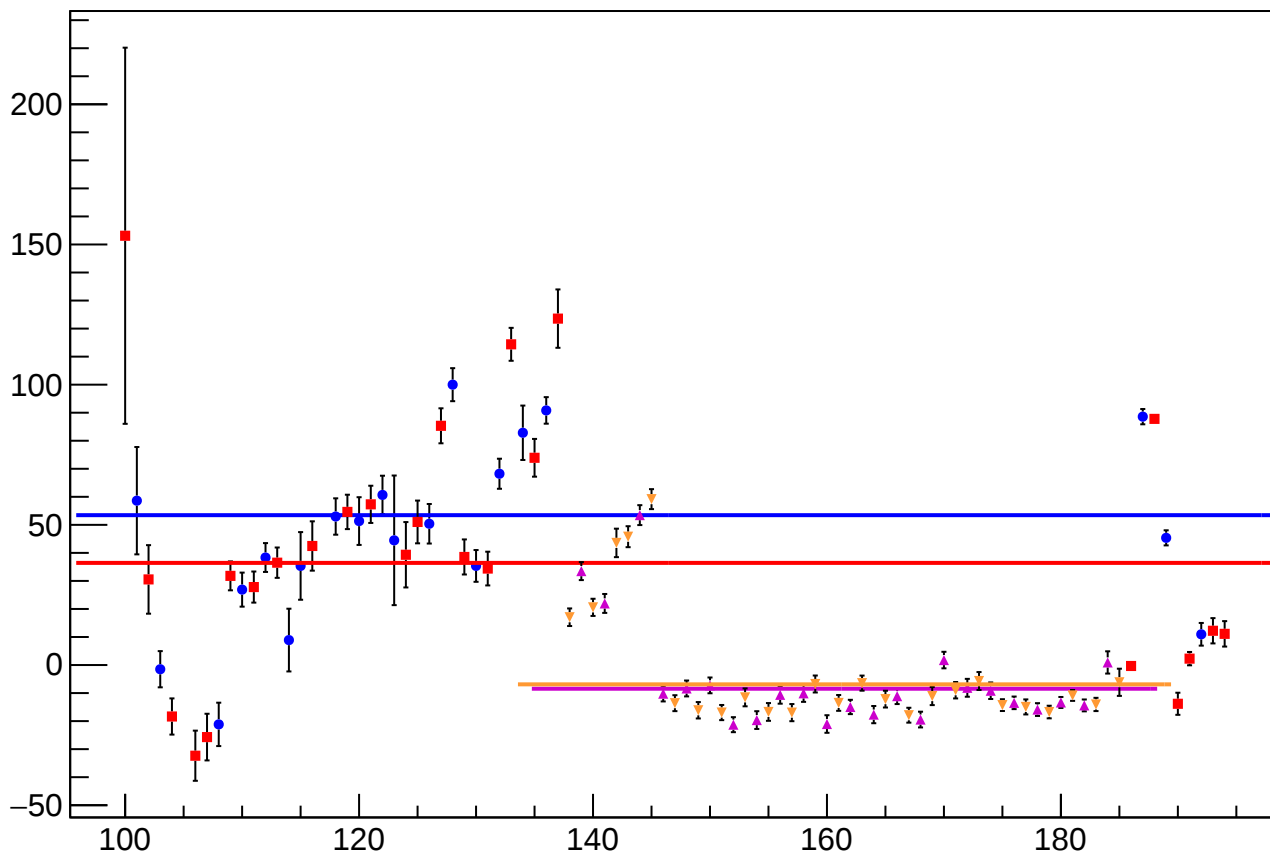
Right: 15.785 $\pm$ 0.552 χ^2 /NDF: 543.6/44

In: 11.145 $\pm$ 0.407 χ^2 /NDF:434.1/42

Out: 10.876 $\pm$ 0.379 χ^2 /NDF:468.2/49

All: 11.001 $\pm$ 0.277 χ^2 /NDF: 902.6/92

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 53.453+/-1.206 χ^2/NDF : 650.1/19

Left Out: -6.888+/-0.571 χ^2/NDF : 914.2/24

Right Out: 36.431+/-0.778 χ^2/NDF : 2856.0/24

Left In: -8.451+/-0.580 χ^2/NDF : 688.9/22

Left: -7.658+/-0.407 χ^2/NDF : 1606.8/47

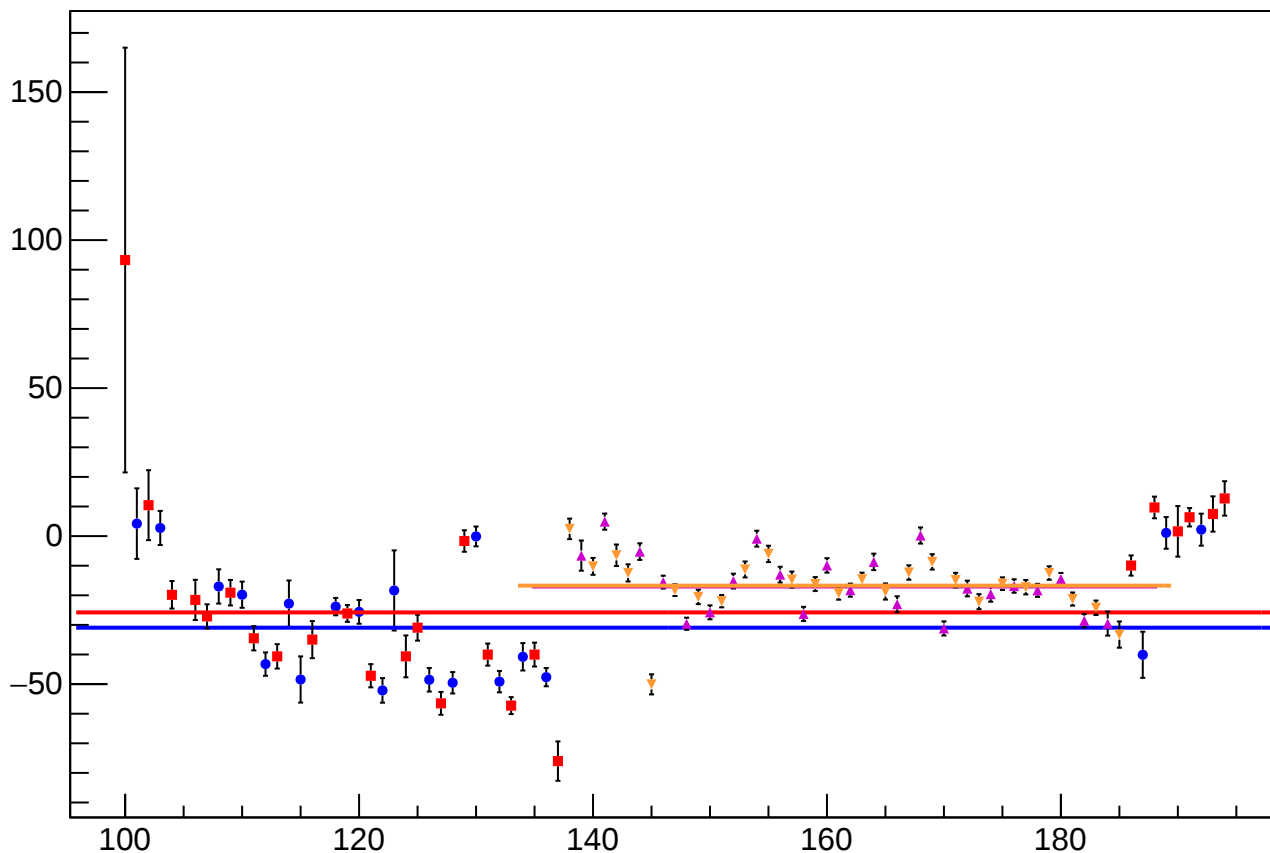
Right: 41.437+/-0.654 χ^2/NDF : 3646.7/44

In: 3.172+/-0.523 χ^2/NDF : 3479.2/42

Out: 8.266+/-0.460 χ^2/NDF : 5783.8/49

All: 6.040+/-0.345 χ^2/NDF : 9316.5/92

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.941 ± 1.000 $\chi^2/\text{NDF}: 370.9/19$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -25.783 ± 0.861 $\chi^2/\text{NDF}: 690.8/24$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

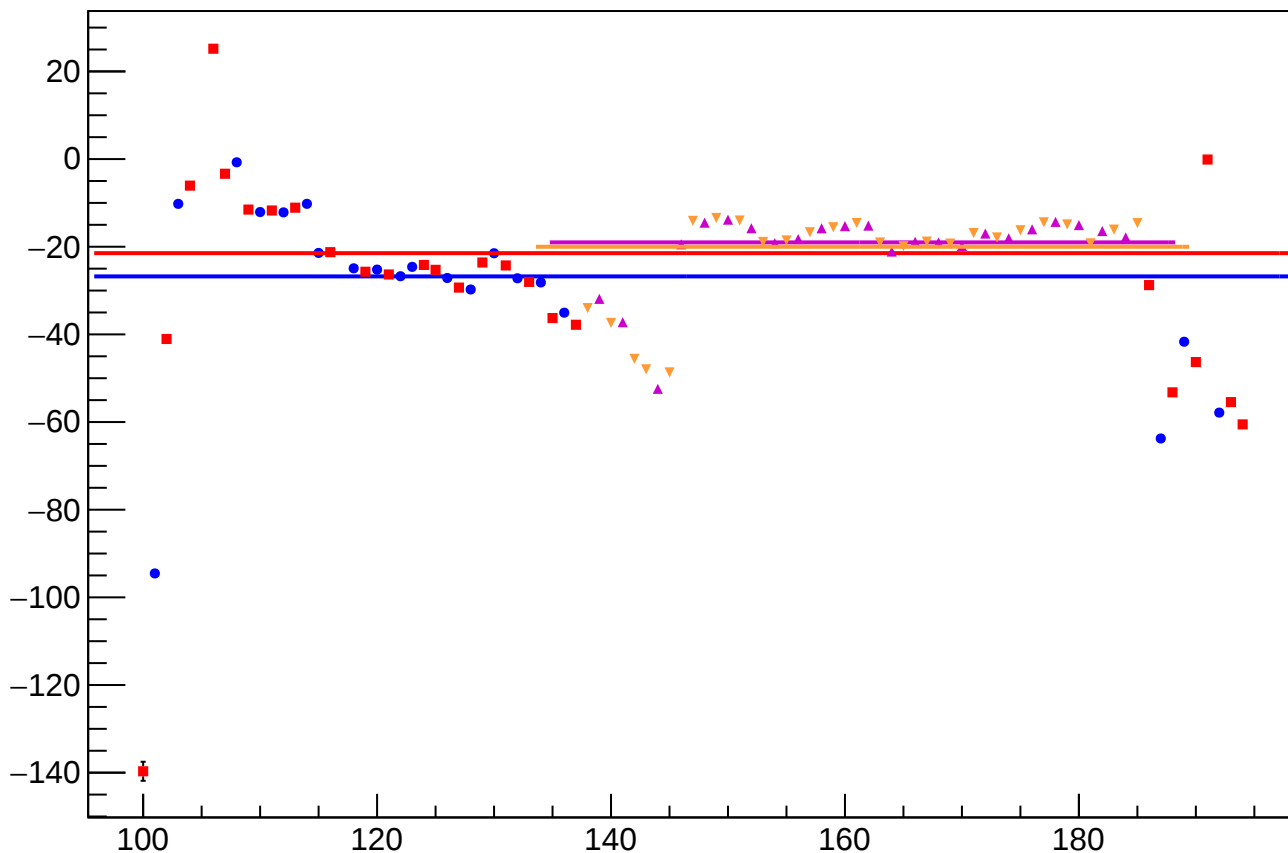
Right: -27.979 ± 0.652 $\chi^2/\text{NDF}: 1077.0/44$

In: -20.004 ± 0.463 $\chi^2/\text{NDF}: 850.8/42$

Out: -19.061 ± 0.437 $\chi^2/\text{NDF}: 996.2/49$

All: -19.505 ± 0.318 $\chi^2/\text{NDF}: 1849.2/92$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -26.768 ± 0.054 χ^2/NDF : 101357.6/19

Left Out: -20.006 ± 0.023 χ^2/NDF : 145623.8/24

Right Out: -21.465 ± 0.042 χ^2/NDF : 275380.6/24

Left In: -19.007 ± 0.024 χ^2/NDF : 90873.3/22

Left: -19.514 ± 0.017 χ^2/NDF : 237400.2/47

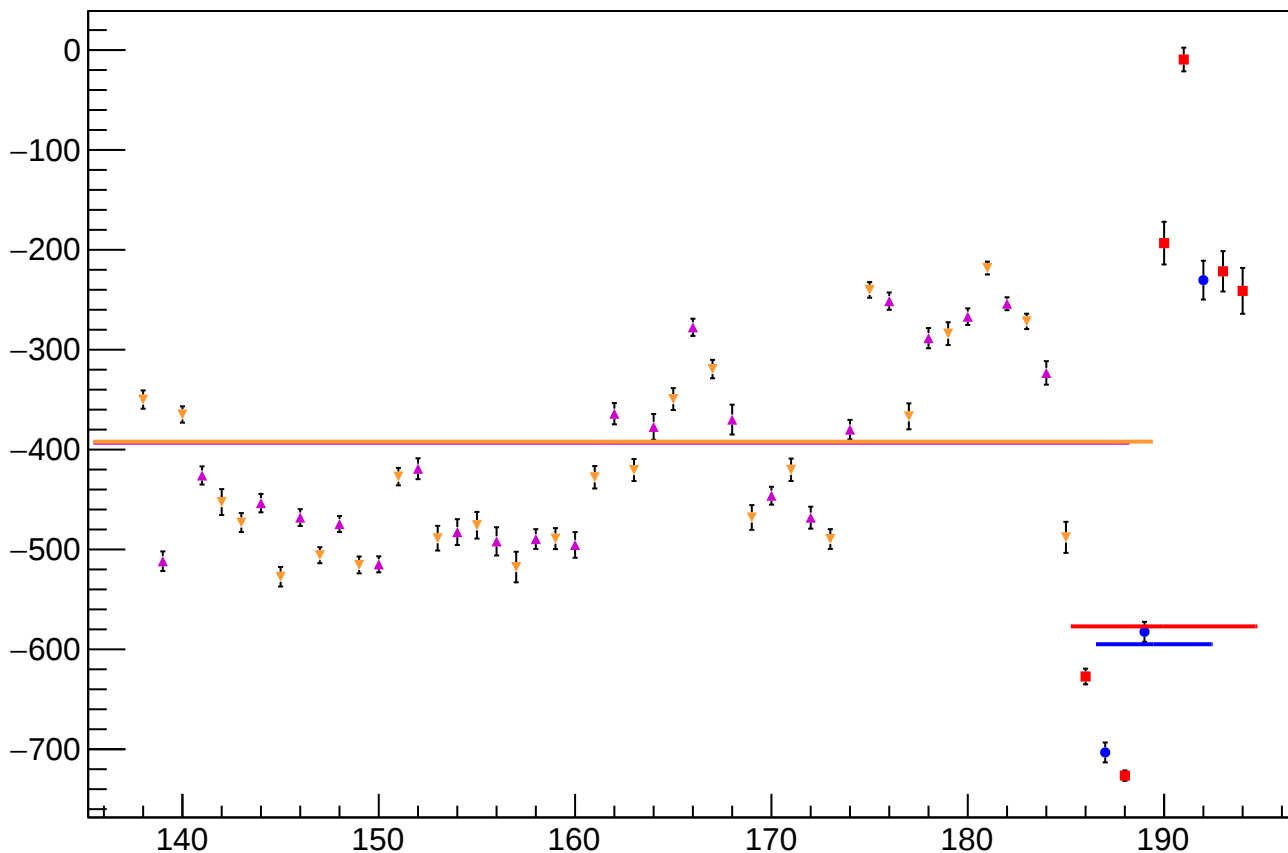
Right: -23.471 ± 0.033 χ^2/NDF : 382777.9/44

In: -20.266 ± 0.022 χ^2/NDF : 209662.0/42

Out: -20.349 ± 0.020 χ^2/NDF : 421928.0/49

All: -20.310 ± 0.015 χ^2/NDF : 631597.8/92

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -594.875+/-6.634 χ^2/NDF : 472.3/2

Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24

Right Out: -577.013+/-3.860 χ^2/NDF : 4009.7/5

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

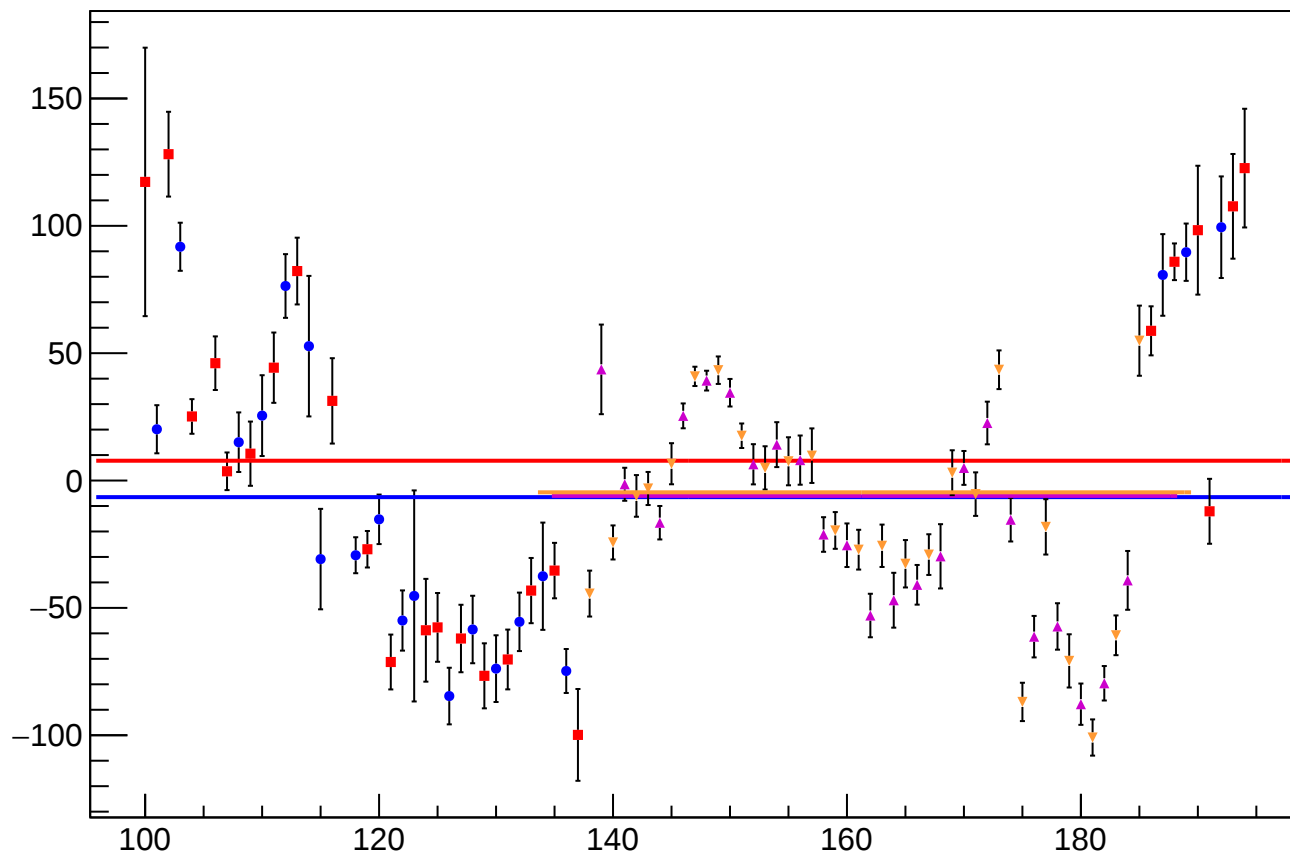
Right: -581.530+/-3.336 χ^2/NDF : 4487.5/8

In: -410.007+/-1.920 χ^2/NDF : 3573.0/25

Out: -430.169+/-1.752 χ^2/NDF : 8549.7/30

All: -421.005+/-1.294 χ^2/NDF : 12182.9/56

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.516 ± 2.677 $\chi^2/\text{NDF}: 507.9/19$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 7.778 ± 2.302 $\chi^2/\text{NDF}: 621.5/24$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

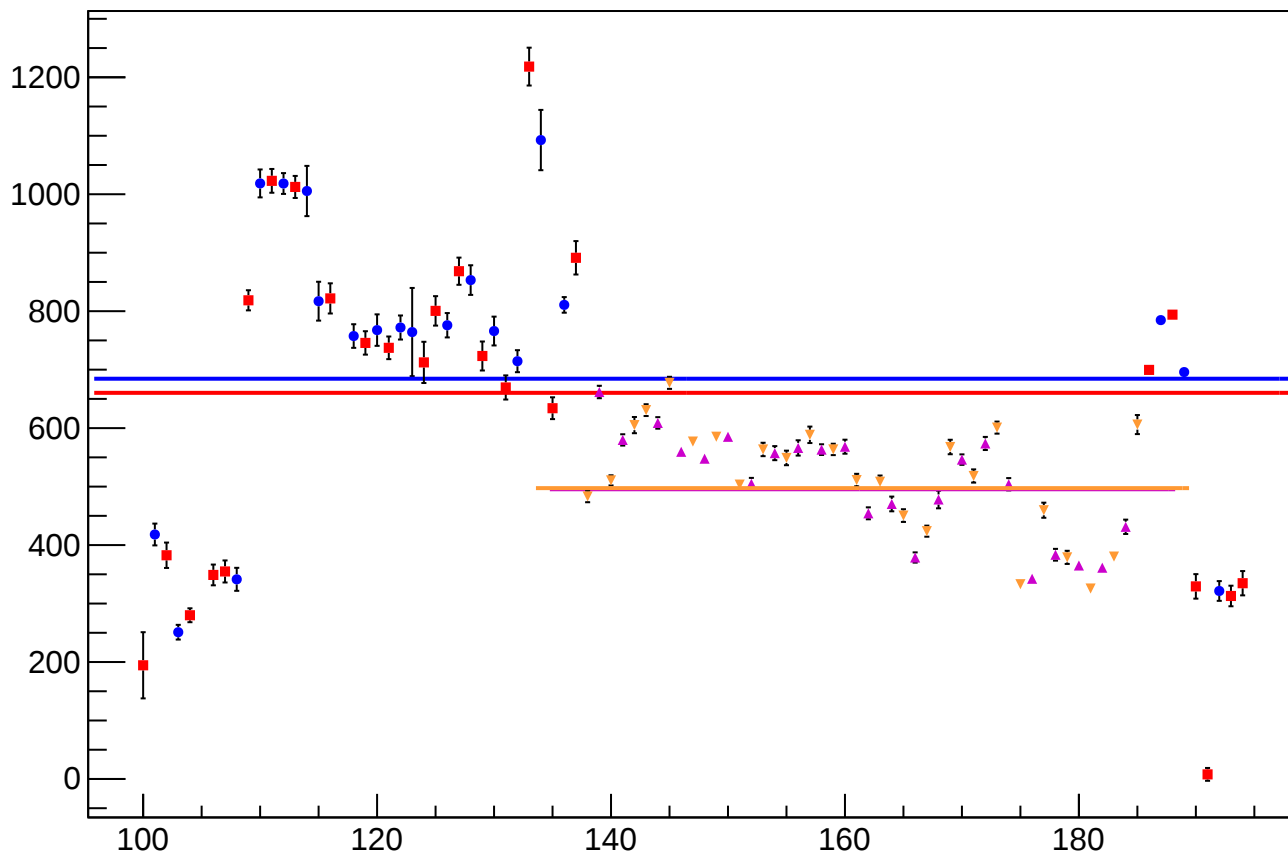
Right: 1.700 ± 1.746 $\chi^2/\text{NDF}: 1145.8/44$

In: -6.139 ± 1.319 $\chi^2/\text{NDF}: 1162.0/42$

Out: -1.060 ± 1.234 $\chi^2/\text{NDF}: 1415.1/49$

All: -3.431 ± 0.901 $\chi^2/\text{NDF}: 2585.0/92$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 684.498 ± 3.733 $\chi^2/\text{NDF}: 3198.8/19$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 660.356 ± 2.640 $\chi^2/\text{NDF}: 8620.3/24$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

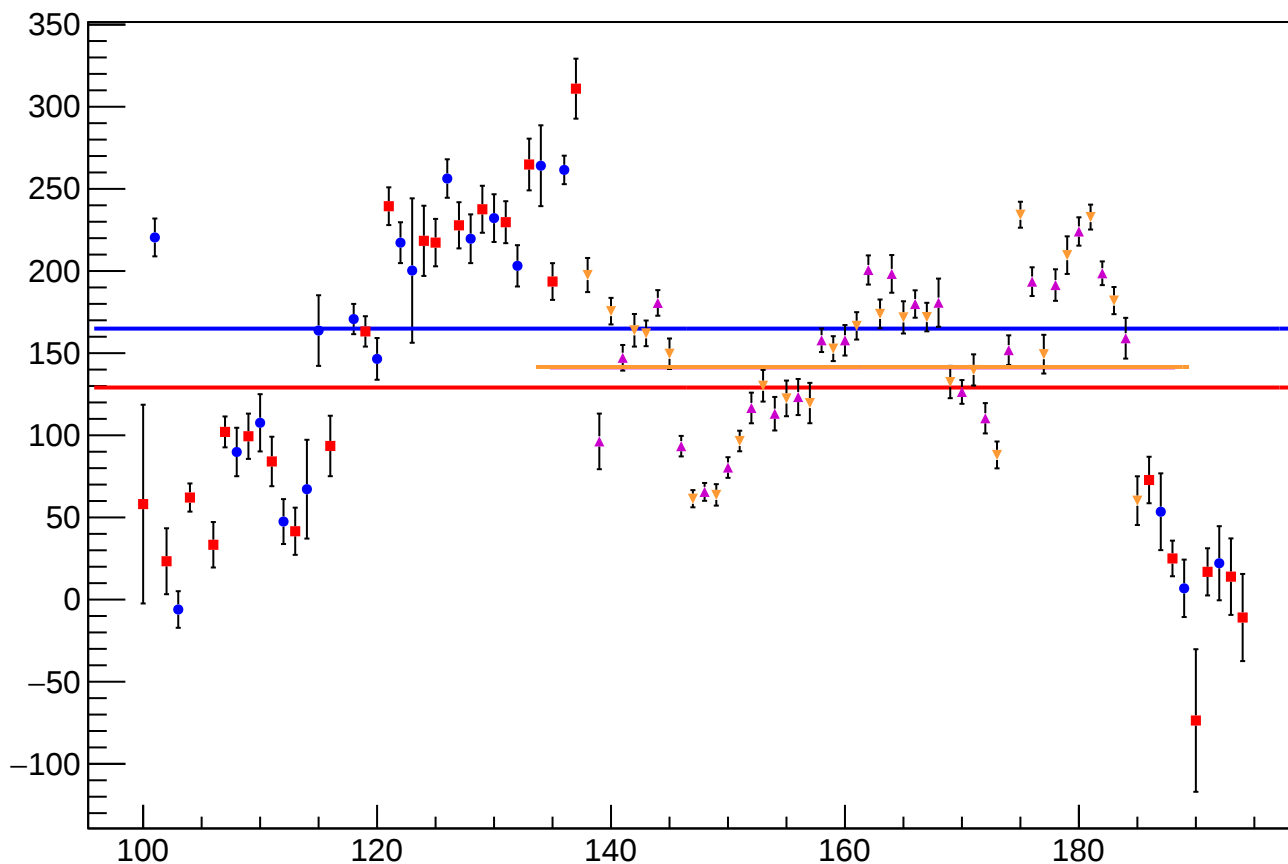
Right: 668.406 ± 2.156 $\chi^2/\text{NDF}: 11846.9/44$

In: 537.361 ± 1.758 $\chi^2/\text{NDF}: 7448.7/42$

Out: 555.507 ± 1.577 $\chi^2/\text{NDF}: 13686.0/49$

All: 547.414 ± 1.174 $\chi^2/\text{NDF}: 21193.8/92$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 164.947 ± 3.131 $\chi^2/\text{NDF}: 790.7/19$

Left Out: 141.588 ± 1.698 $\chi^2/\text{NDF}: 959.6/24$

Right Out: 129.086 ± 2.774 $\chi^2/\text{NDF}: 980.4/24$

Left In: 141.360 ± 1.748 $\chi^2/\text{NDF}: 741.2/22$

Left: 141.478 ± 1.218 $\chi^2/\text{NDF}: 1700.8/47$

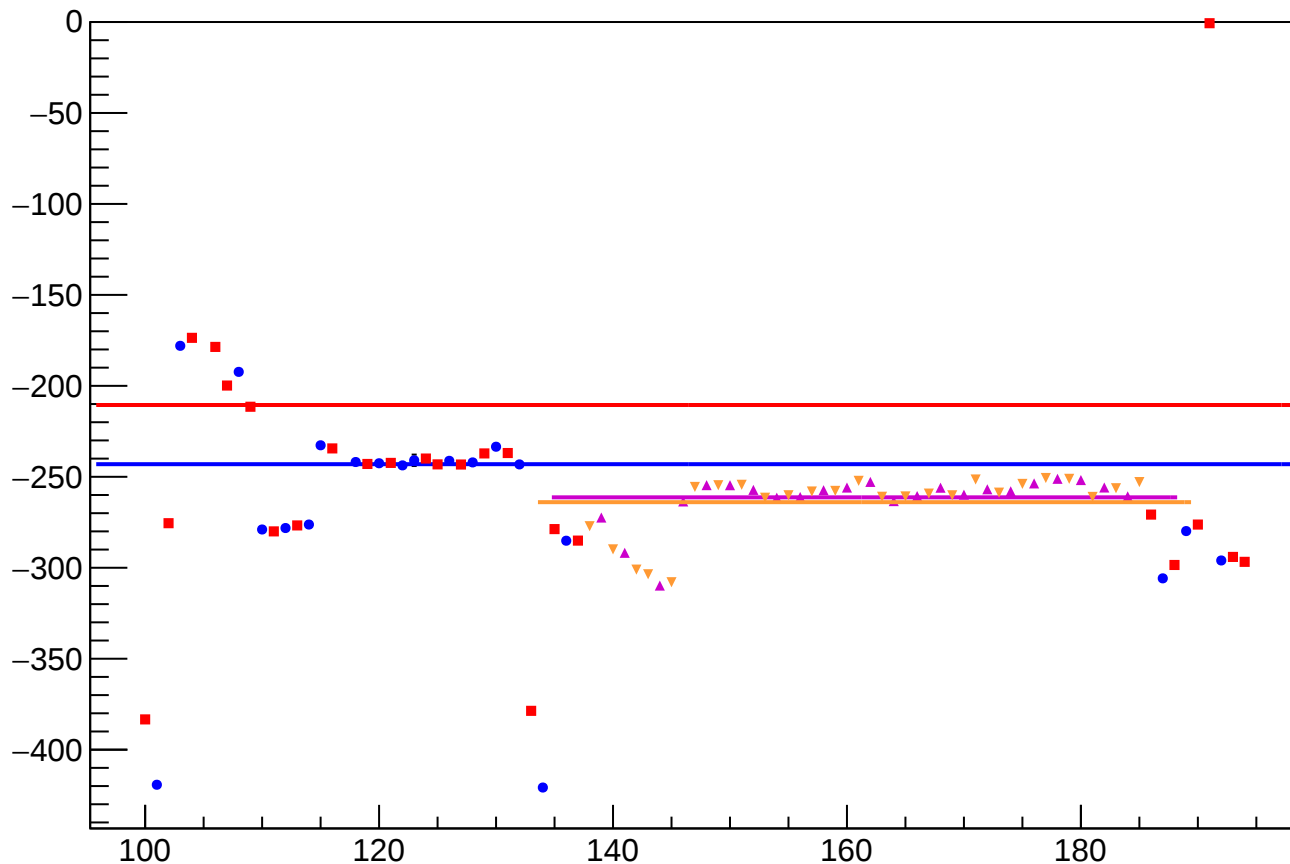
Right: 144.859 ± 2.076 $\chi^2/\text{NDF}: 1844.7/44$

In: 146.965 ± 1.526 $\chi^2/\text{NDF}: 1575.2/42$

Out: 138.180 ± 1.449 $\chi^2/\text{NDF}: 1954.8/49$

All: 142.343 ± 1.051 $\chi^2/\text{NDF}: 3547.5/92$

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -243.062 $\pm$ 0.153 χ^2 /NDF: 177559.7/19

Left Out: -263.943 $\pm$ 0.081 χ^2 /NDF: 39085.0/24

Right Out: -210.530 $\pm$ 0.131 χ^2 /NDF: 452884.8/24

Left In: -261.286 $\pm$ 0.082 χ^2 /NDF: 23348.4/22

Left: -262.627 $\pm$ 0.058 χ^2 /NDF: 62963.4/47

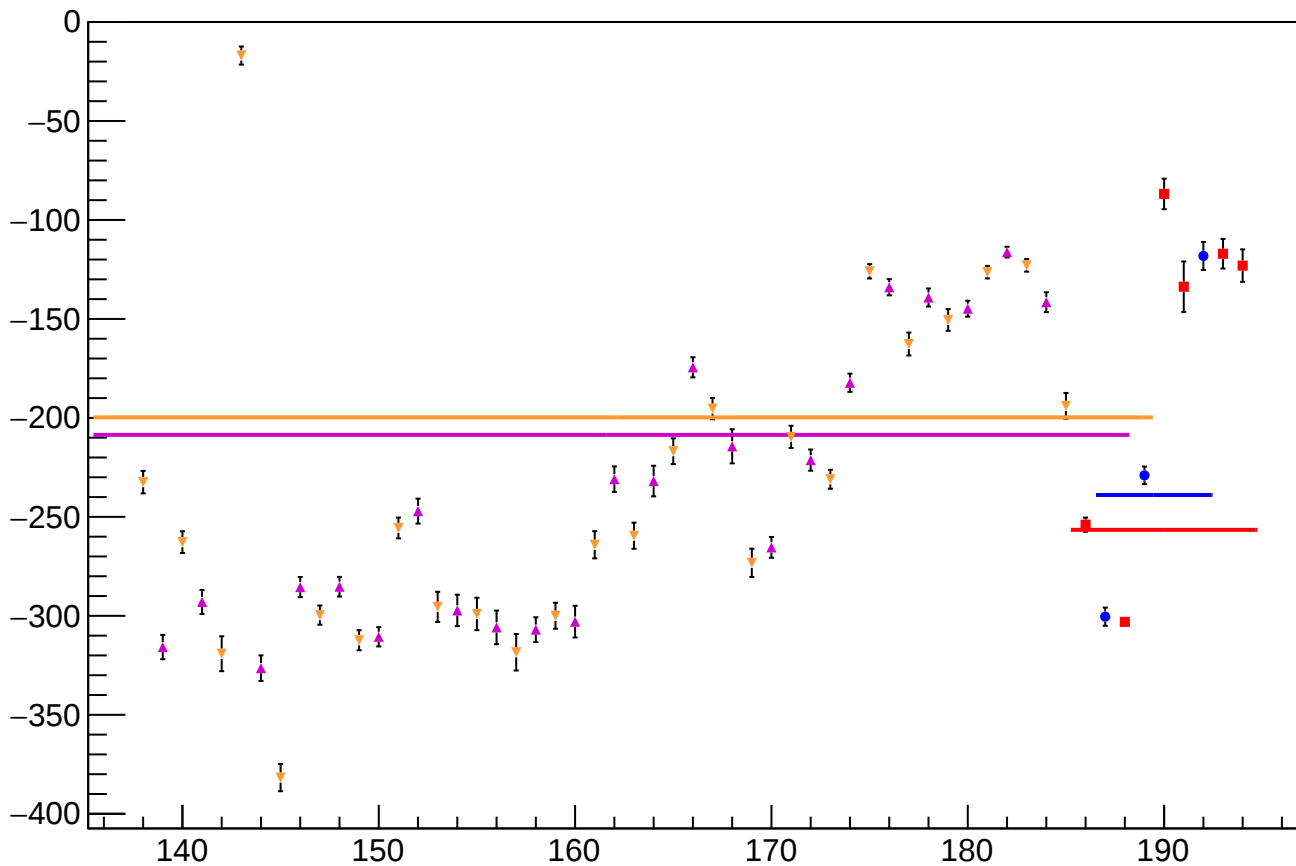
Right: -224.291 $\pm$ 0.100 χ^2 /NDF: 656482.0/44

In: -257.228 $\pm$ 0.072 χ^2 /NDF: 211916.3/42

Out: -249.126 $\pm$ 0.069 χ^2 /NDF: 611868.8/49

All: -252.993 $\pm$ 0.050 χ^2 /NDF: 830353.5/92

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -238.942 $\pm$ 2.907 χ^2 /NDF: 475.4/2

Left Out: -199.741 $\pm$ 1.061 χ^2 /NDF:6361.5/24

Right Out: -256.549 $\pm$ 1.793 χ^2 /NDF: 1572.9/5

Left In: -208.579 $\pm$ 1.082 χ^2 /NDF:4805.1/22

Left: -204.073 $\pm$ 0.758 χ^2 /NDF: 11200.6/47

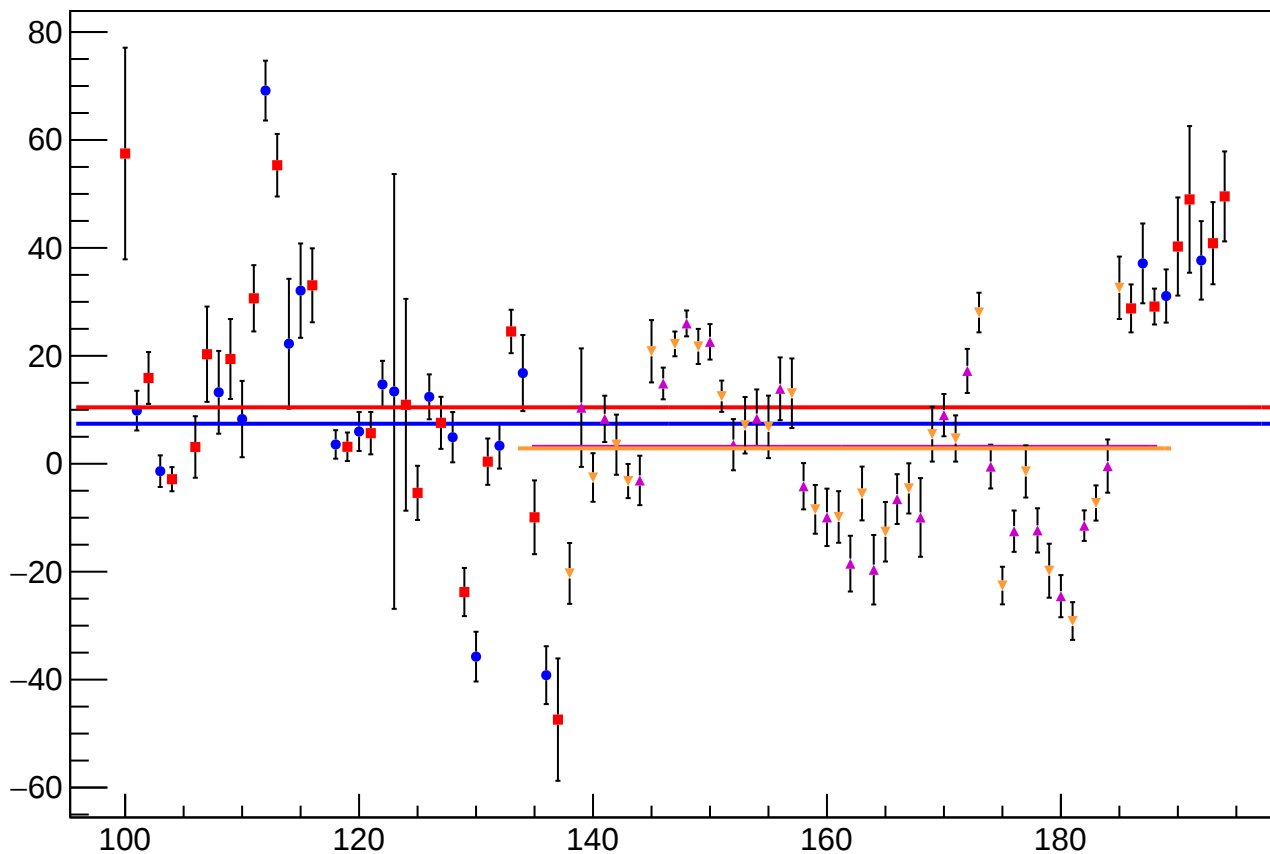
Right: -251.699 $\pm$ 1.526 χ^2 /NDF: 2074.9/8

In: -212.275 $\pm$ 1.014 χ^2 /NDF:5376.4/25

Out: -214.482 $\pm$ 0.913 χ^2 /NDF:8678.1/30

All: -213.494 $\pm$ 0.679 χ^2 /NDF: 14057.1/56

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.416 ± 1.058 χ^2/NDF : 372.8/19

Left Out: 2.853 ± 0.820 χ^2/NDF : 419.8/24

Right Out: 10.457 ± 0.970 χ^2/NDF : 364.6/24

Left In: 3.136 ± 0.857 χ^2/NDF : 319.8/22

Left: 2.988 ± 0.592 χ^2/NDF : 739.7/47

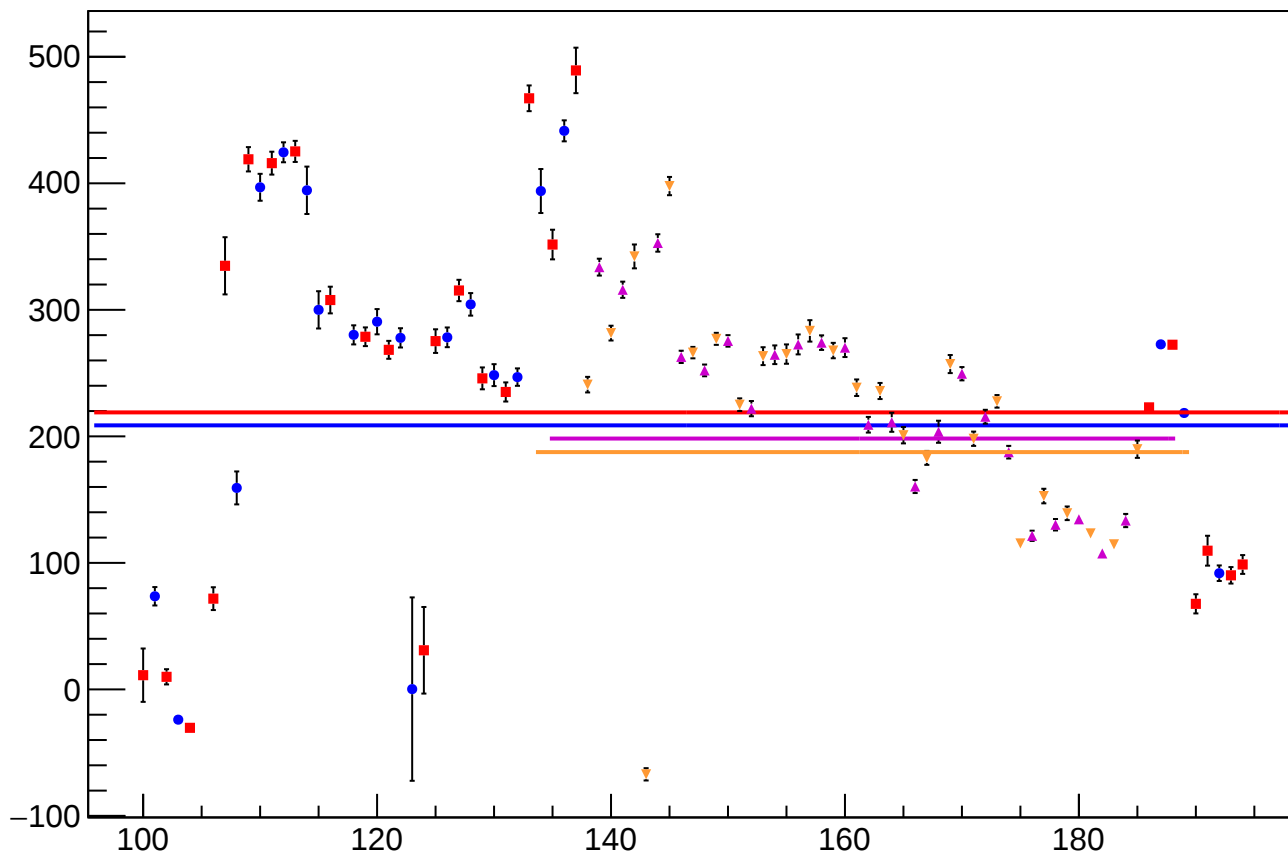
Right: 9.068 ± 0.715 χ^2/NDF : 741.9/44

In: 4.832 ± 0.666 χ^2/NDF : 702.5/42

Out: 6.024 ± 0.626 χ^2/NDF : 820.3/49

All: 5.464 ± 0.456 χ^2/NDF : 1524.5/92

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 208.691 $\pm$ 1.540 χ^2 /NDF: 7390.8/19

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 218.941 $\pm$ 1.169 χ^2 /NDF: 10325.8/24

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF:4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

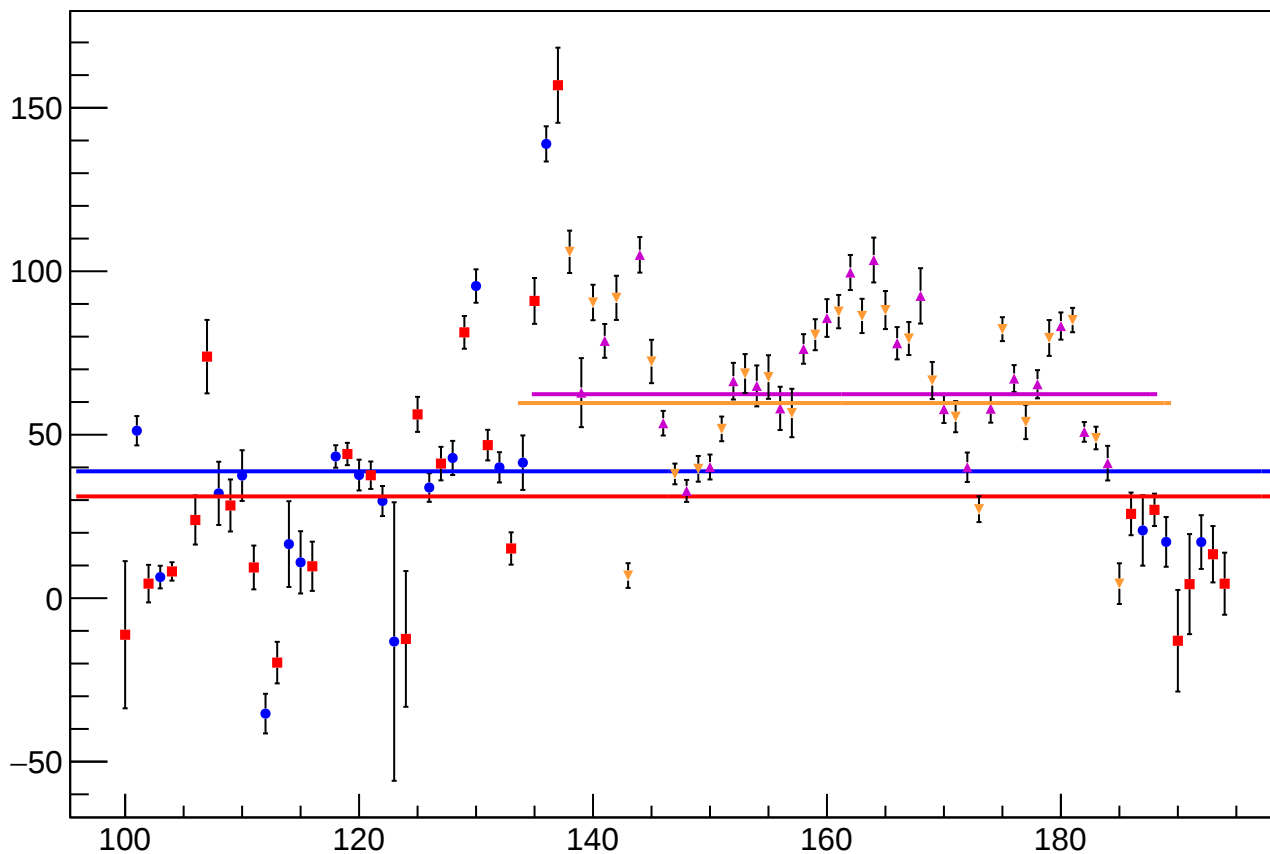
Right: 215.195 $\pm$ 0.931 χ^2 /NDF: 17744.7/44

In: 201.711 $\pm$ 0.885 χ^2 /NDF:11937.3/42

Out: 201.809 $\pm$ 0.788 χ^2 /NDF:17801.2/49

All: 201.766 $\pm$ 0.588 χ^2 /NDF: 29738.5/92

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.811 ± 1.245 $\chi^2/\text{NDF}: 752.9/19$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 31.133 ± 1.167 $\chi^2/\text{NDF}: 576.4/24$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

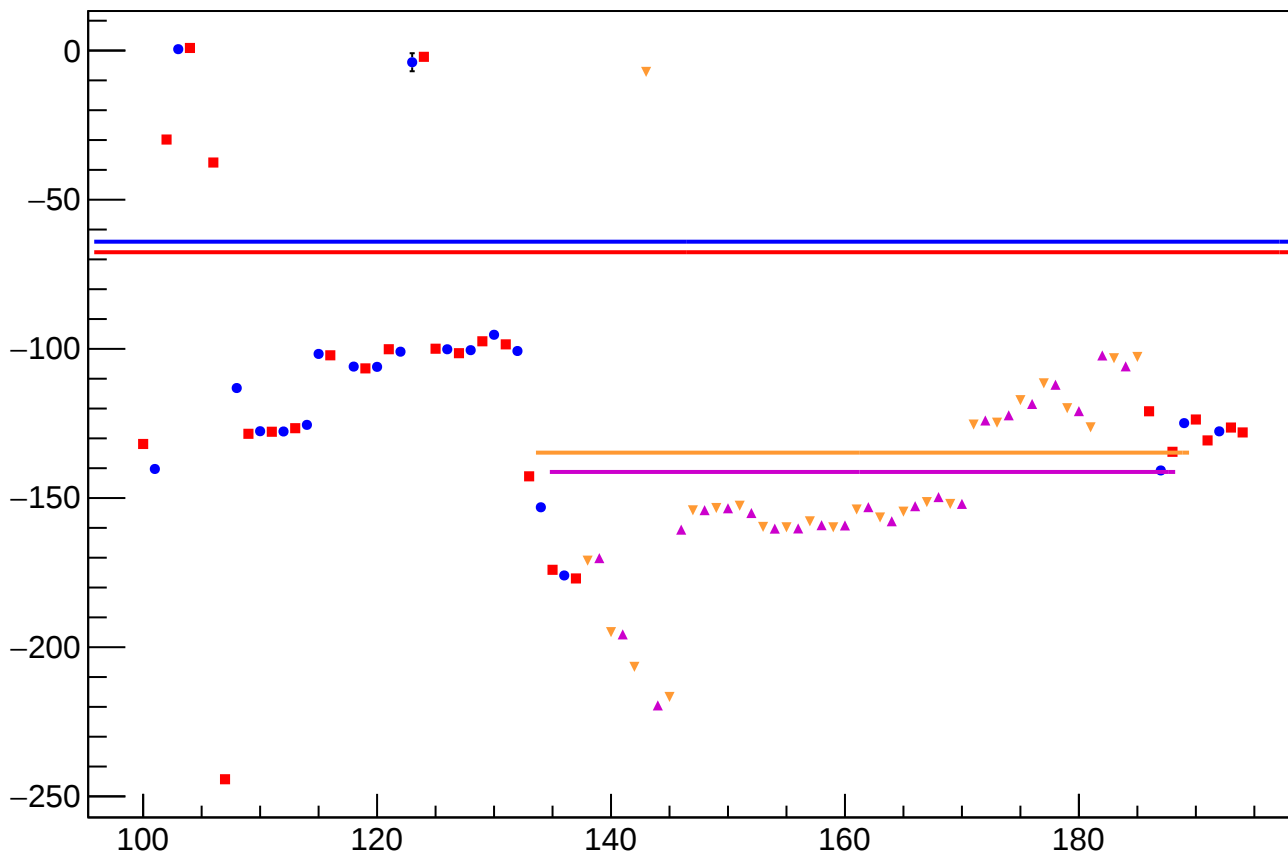
Right: 34.724 ± 0.851 $\chi^2/\text{NDF}: 1349.6/44$

In: 53.438 ± 0.767 $\chi^2/\text{NDF}: 1382.0/42$

Out: 48.433 ± 0.732 $\chi^2/\text{NDF}: 1696.9/49$

All: 50.819 ± 0.530 $\chi^2/\text{NDF}: 3101.1/92$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -64.072 $\pm$ 0.059 χ^2 /NDF: 1217269.9/19

Left Out: -134.780 $\pm$ 0.045 χ^2 /NDF: 804747.3/24

Right Out: -67.604 $\pm$ 0.055 χ^2 /NDF: 1262574.1/24

Left In: -141.255 $\pm$ 0.045 χ^2 /NDF: 347229.8/22

Left: -137.961 $\pm$ 0.032 χ^2 /NDF: 1162377.9/47

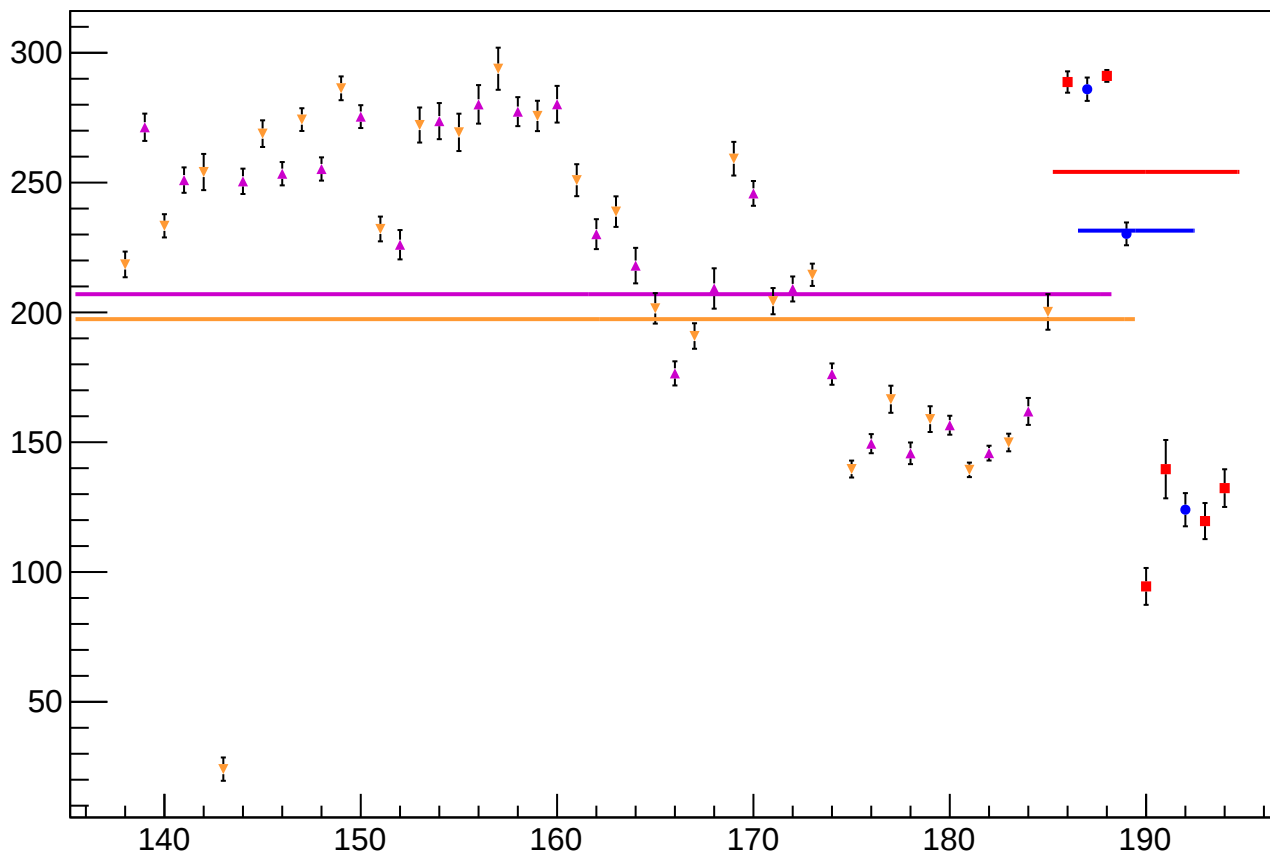
Right: -65.968 $\pm$ 0.040 χ^2 /NDF: 2481767.9/44

In: -112.632 $\pm$ 0.036 χ^2 /NDF: 2641505.0/42

Out: -108.084 $\pm$ 0.035 χ^2 /NDF: 2972806.3/49

All: -110.269 $\pm$ 0.025 χ^2 /NDF: 5622638.1/92

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 231.498 $\pm$ 2.821 χ^2 /NDF: 429.1/2

Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF: 4384.2/24

Right Out: 254.127 $\pm$ 1.770 χ^2 /NDF: 1599.0/5

Left In: 207.014 $\pm$ 0.990 χ^2 /NDF: 2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47

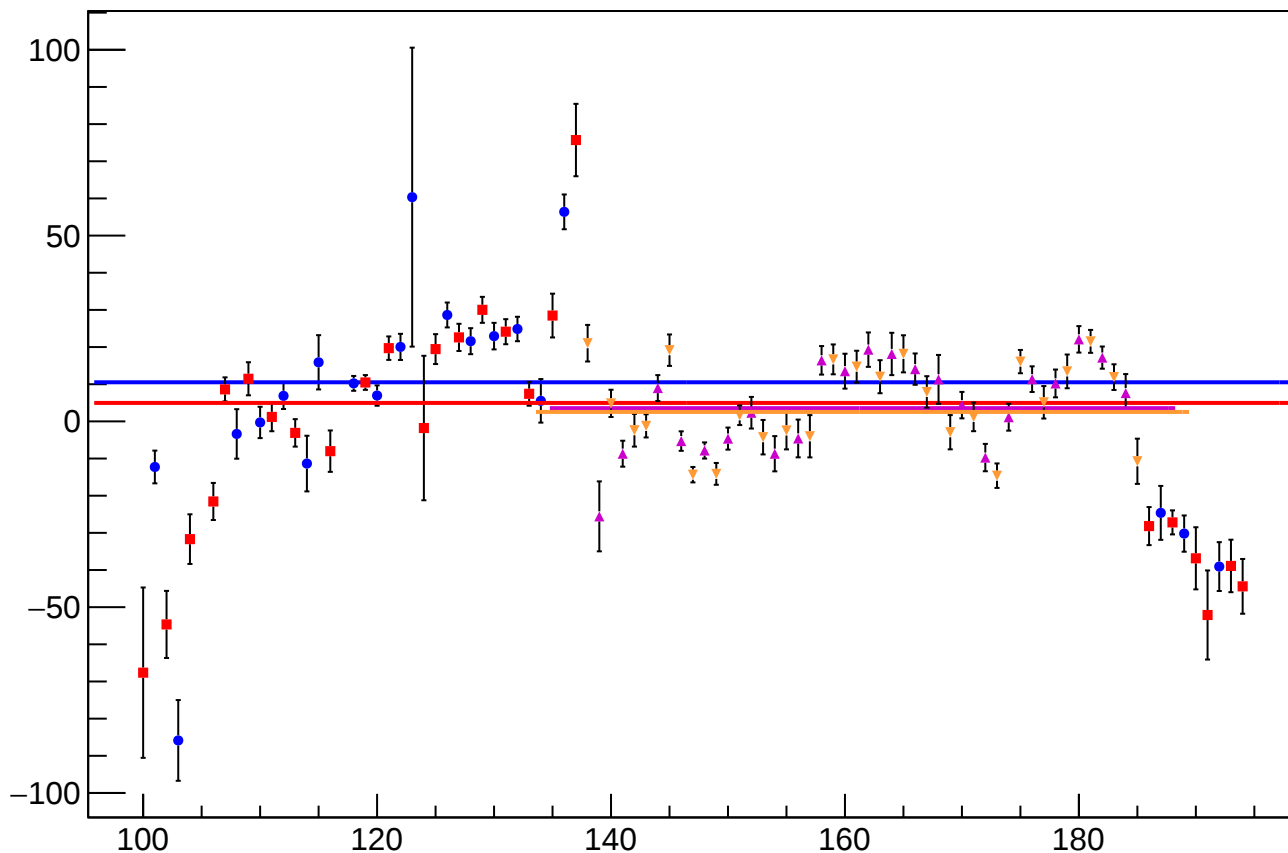
Right: 247.735 $\pm$ 1.500 χ^2 /NDF: 2074.3/8

In: 209.700 $\pm$ 0.934 χ^2 /NDF: 3107.7/25

Out: 210.357 $\pm$ 0.846 χ^2 /NDF: 6775.4/30

All: 210.061 $\pm$ 0.627 χ^2 /NDF: 9883.4/56

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.522 ± 0.905 $\chi^2/\text{NDF}: 454.3/19$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 4.966 ± 0.849 $\chi^2/\text{NDF}: 617.2/24$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

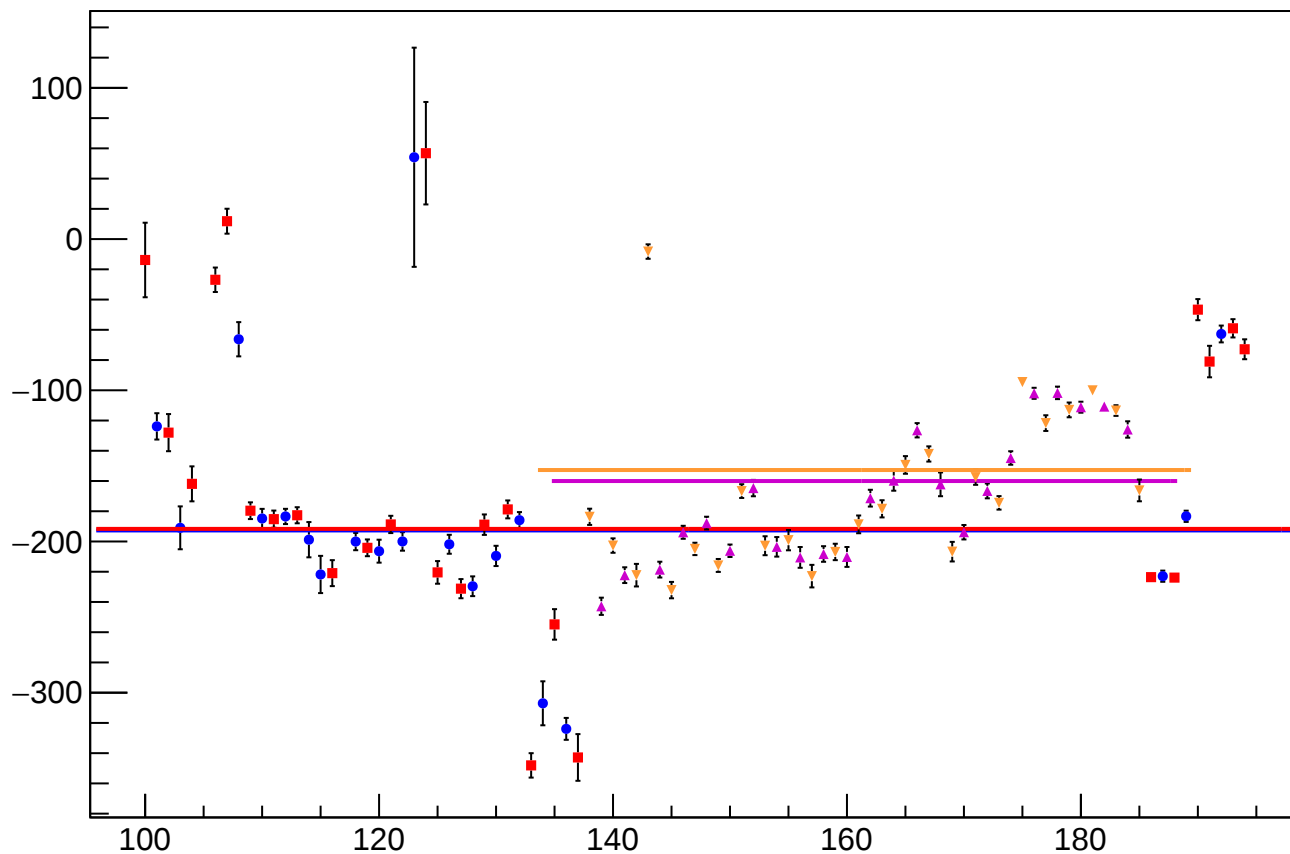
Right: 7.565 ± 0.619 $\chi^2/\text{NDF}: 1091.6/44$

In: 6.500 ± 0.588 $\chi^2/\text{NDF}: 680.4/42$

Out: 3.594 ± 0.558 $\chi^2/\text{NDF}: 897.3/49$

All: 4.971 ± 0.405 $\chi^2/\text{NDF}: 1590.6/92$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -192.691 ± 1.433 χ^2/NDF : 1267.0/19

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -191.665 ± 1.108 χ^2/NDF : 3512.2/24

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

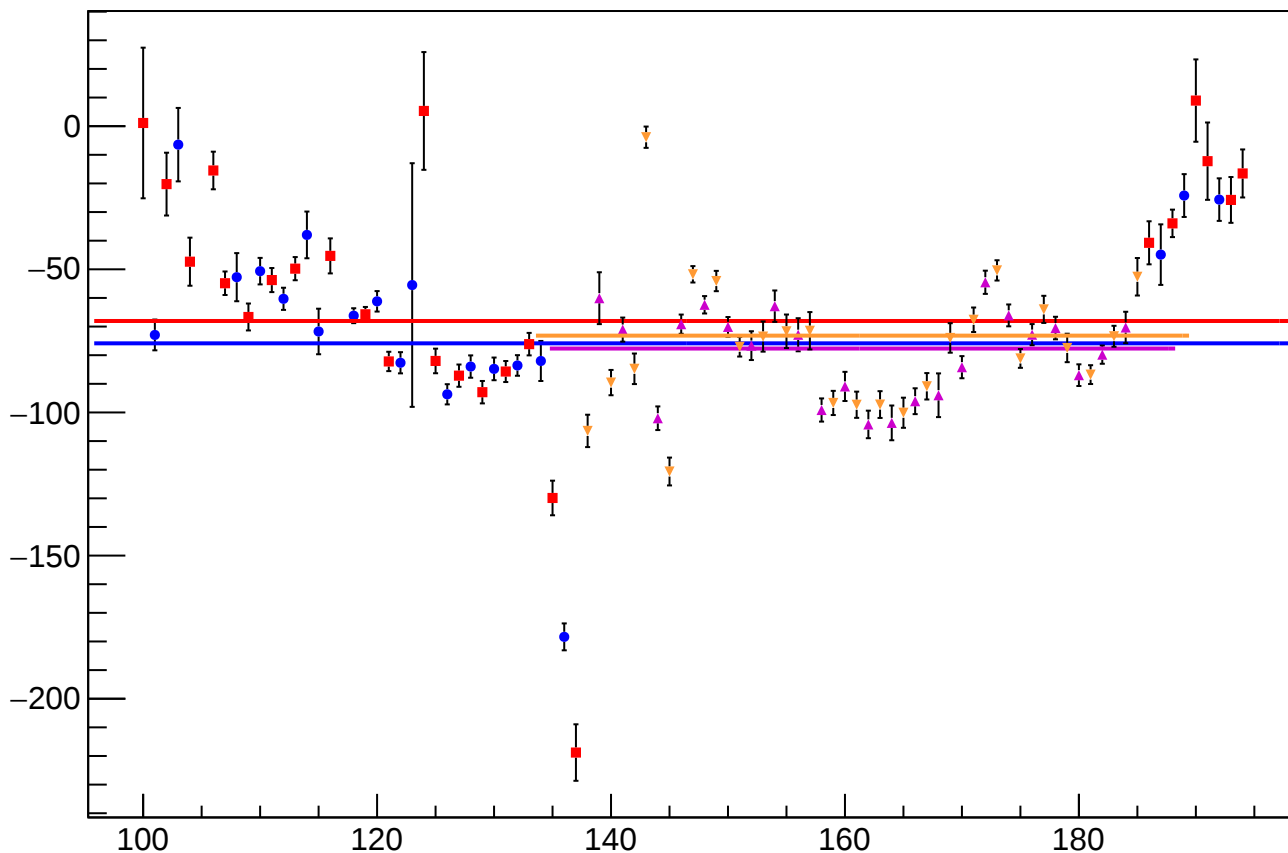
Right: -192.049 ± 0.877 χ^2/NDF : 4779.5/44

In: -170.553 ± 0.814 χ^2/NDF : 3643.4/42

Out: -169.563 ± 0.729 χ^2/NDF : 7290.4/49

All: -170.004 ± 0.543 χ^2/NDF : 10934.6/92

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

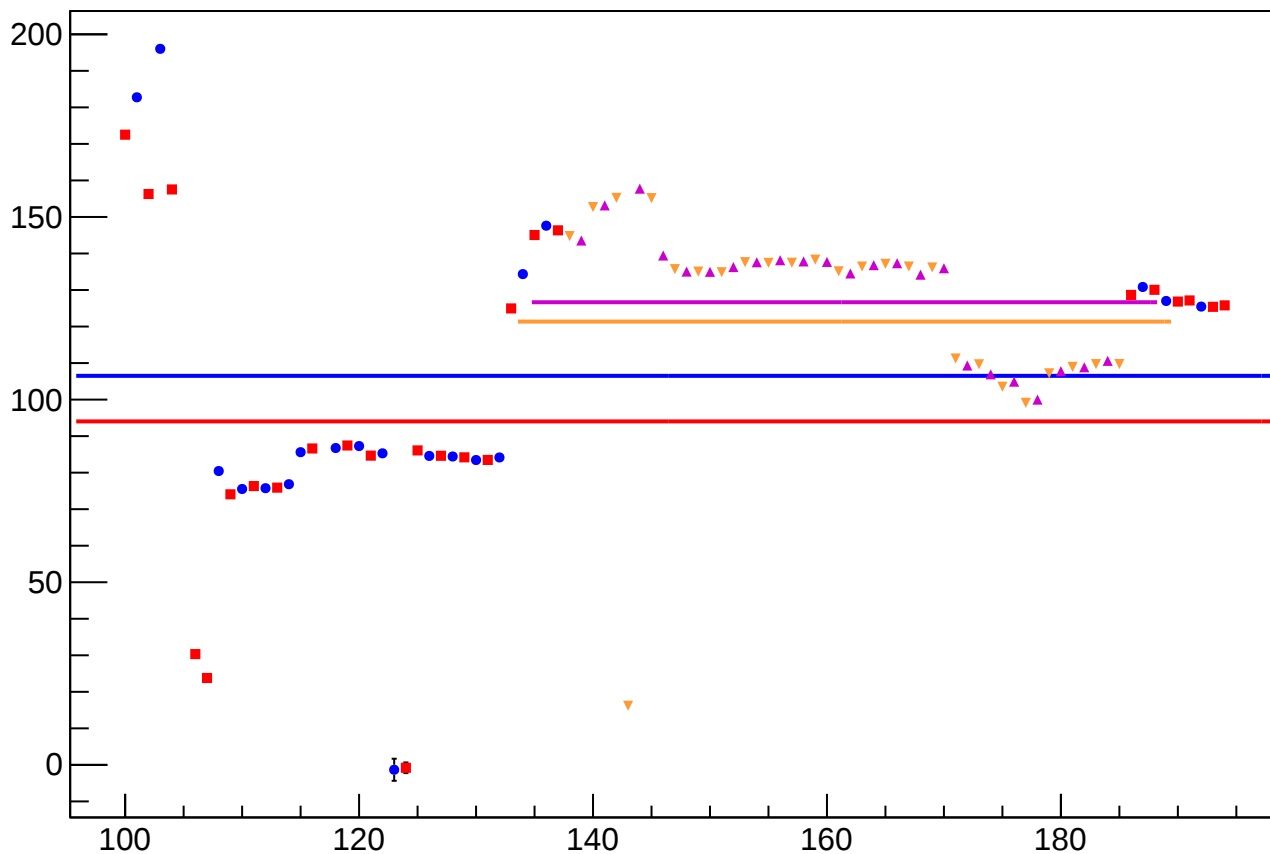


Right In: -75.857 ± 1.056 χ^2/NDF : 756.9/19
 Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24
 Right Out: -68.051 ± 0.999 χ^2/NDF : 798.7/24
 Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47
 Right: -71.736 ± 0.726 χ^2/NDF : 1584.4/44
 In: -76.929 ± 0.677 χ^2/NDF : 1006.9/42
 Out: -71.014 ± 0.648 χ^2/NDF : 1602.4/49

All: -73.840 ± 0.468 χ^2/NDF : 2649.2/92

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 106.505 $\pm$ 0.066 χ^2 /NDF: 286195.6/19

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 94.032 $\pm$ 0.057 χ^2 /NDF: 515702.5/24

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

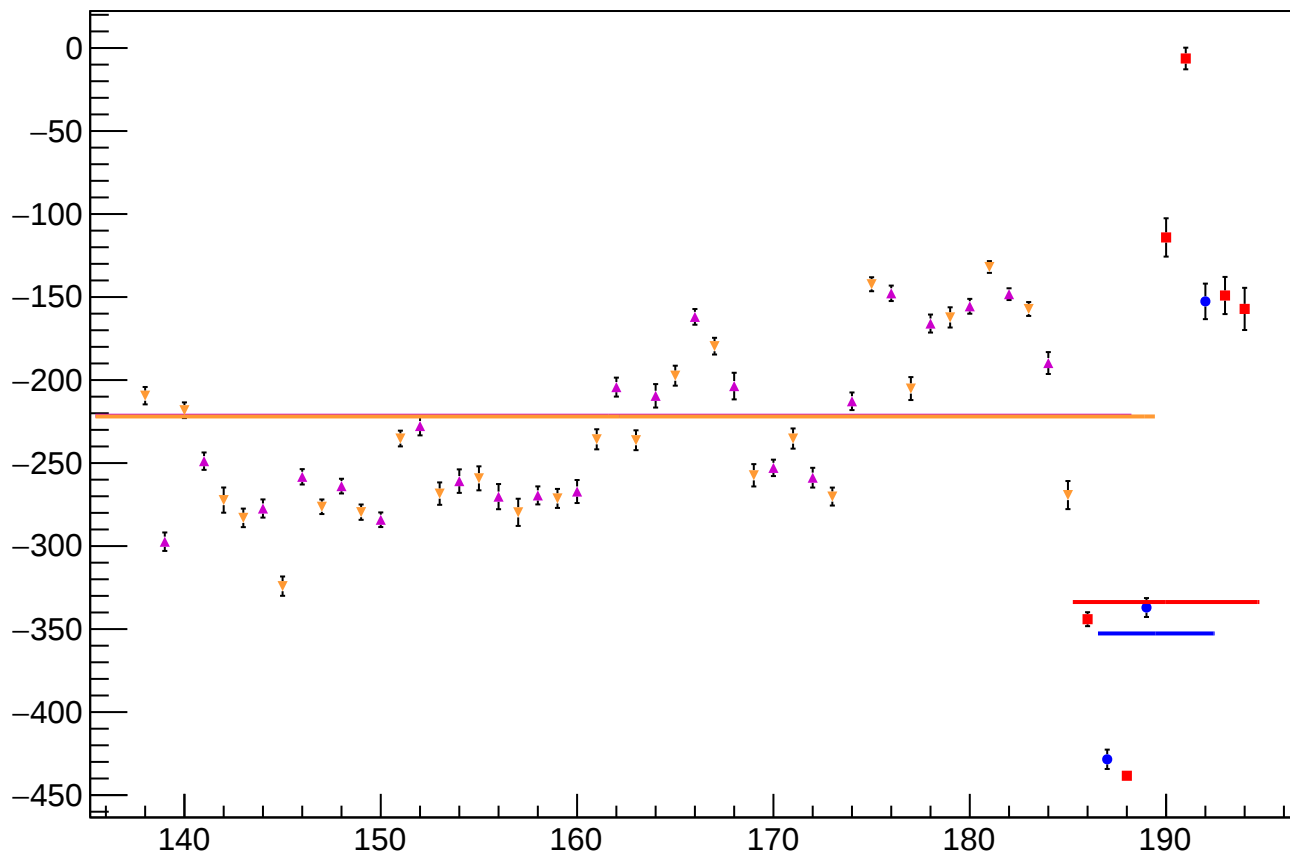
Right: 99.301 $\pm$ 0.043 χ^2 /NDF: 822399.7/44

In: 121.053 $\pm$ 0.035 χ^2 /NDF: 516108.3/42

Out: 112.166 $\pm$ 0.033 χ^2 /NDF: 1152255.4/49

All: 116.338 $\pm$ 0.024 χ^2 /NDF: 1702755.1/92

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -352.635 ± 3.807 χ^2/NDF : 525.8/2

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -333.704 ± 2.181 χ^2/NDF : 4544.5/5

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

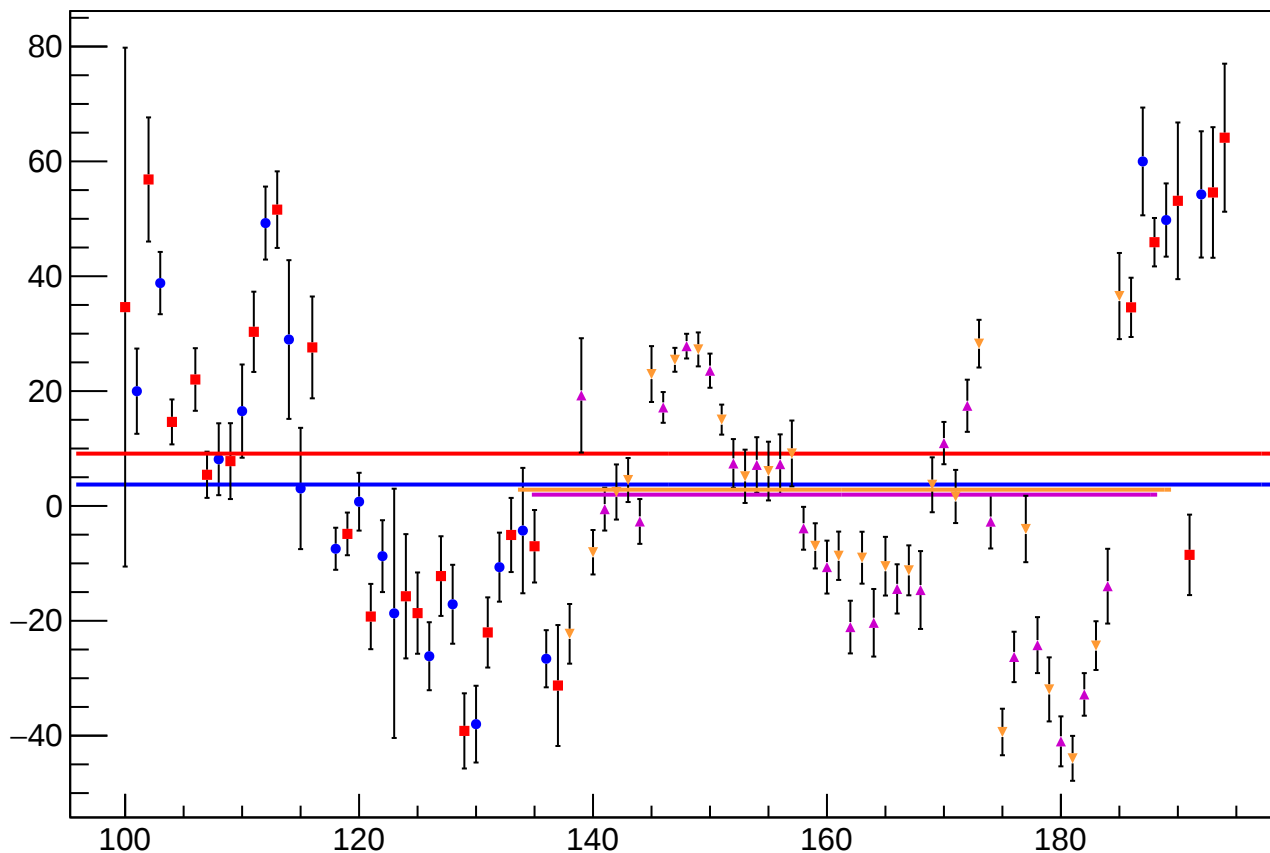
Right: -338.381 ± 1.893 χ^2/NDF : 5089.0/8

In: -231.624 ± 1.059 χ^2/NDF : 3770.4/25

Out: -244.088 ± 0.971 χ^2/NDF : 9228.4/30

All: -238.394 ± 0.716 χ^2/NDF : 13074.1/56

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.730 ± 1.464 $\chi^2/\text{NDF}: 345.4/19$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 9.113 ± 1.247 $\chi^2/\text{NDF}: 409.6/24$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

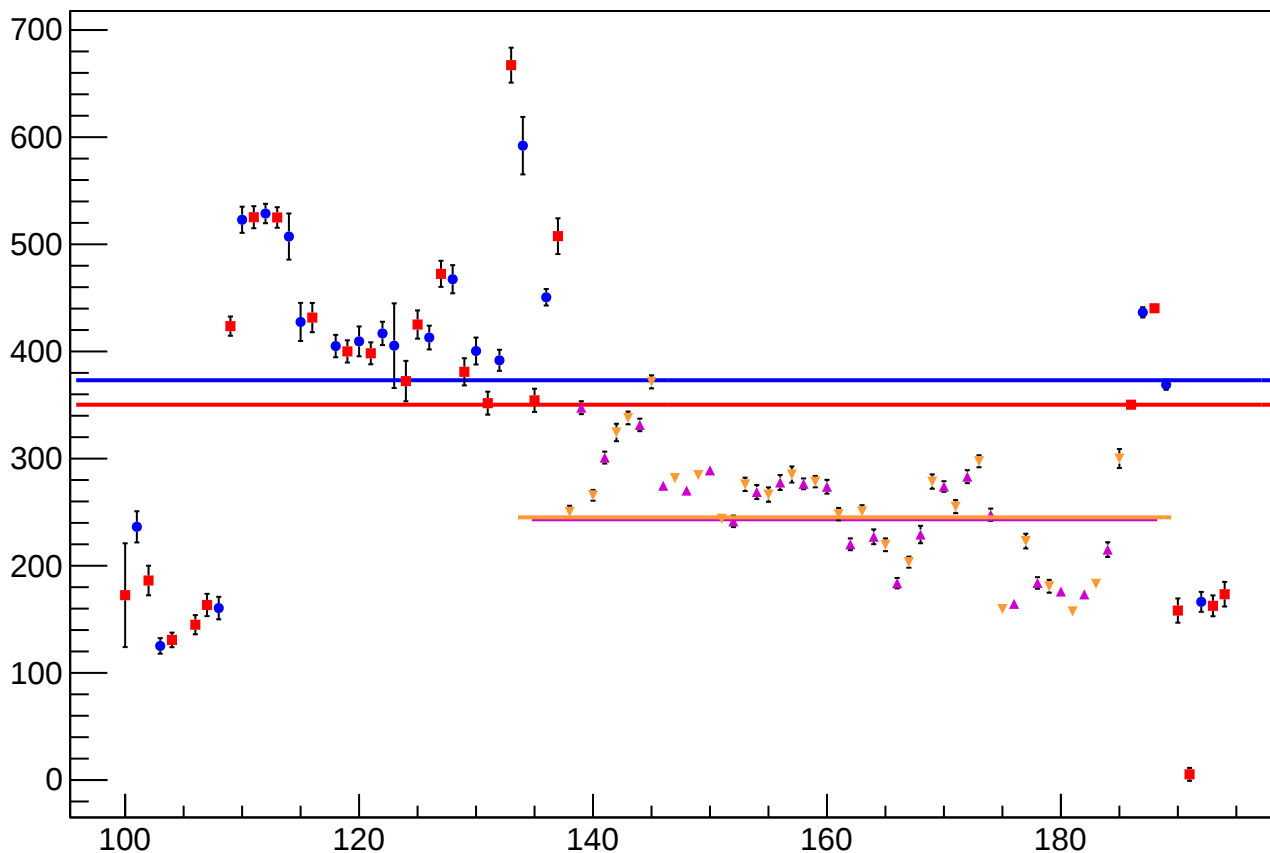
Right: 6.849 ± 0.950 $\chi^2/\text{NDF}: 762.8/44$

In: 2.401 ± 0.725 $\chi^2/\text{NDF}: 935.5/42$

Out: 4.685 ± 0.678 $\chi^2/\text{NDF}: 1114.4/49$

All: 3.620 ± 0.495 $\chi^2/\text{NDF}: 2055.2/92$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 373.134 $\pm$ 2.092 χ^2 /NDF: 3100.2/19

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF: 2597.4/24

Right Out: 350.281 $\pm$ 1.471 χ^2 /NDF: 8942.1/24

Left In: 243.366 $\pm$ 1.094 χ^2 /NDF: 2236.7/22

Left: 244.282 $\pm$ 0.769 χ^2 /NDF: 4835.5/47

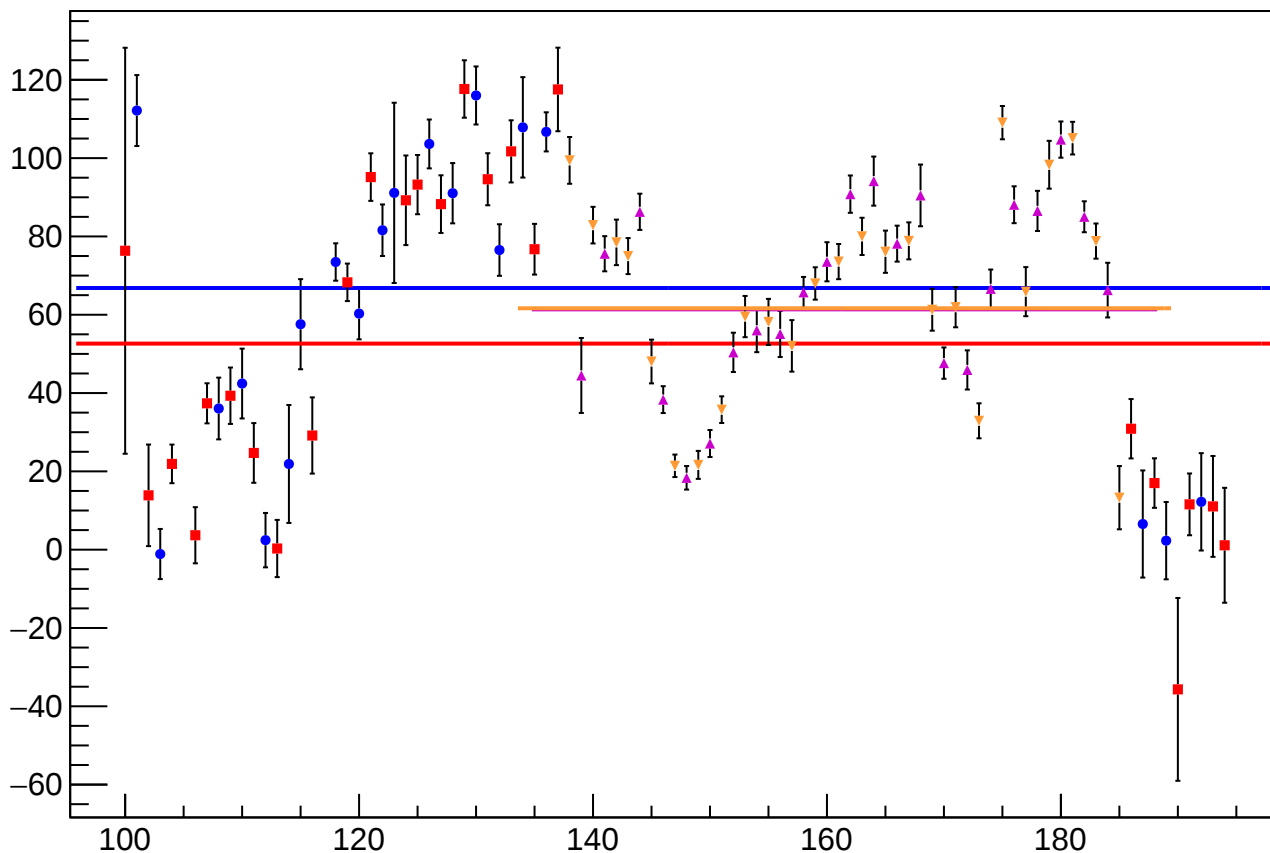
Right: 357.842 $\pm$ 1.203 χ^2 /NDF: 12122.1/44

In: 271.218 $\pm$ 0.969 χ^2 /NDF: 8358.9/42

Out: 282.082 $\pm$ 0.872 χ^2 /NDF: 14852.2/49

All: 277.224 $\pm$ 0.648 χ^2 /NDF: 23280.5/92

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 66.830 $\pm$ 1.710 χ^2 /NDF: 511.1/19

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF: 871.5/24

Right Out: 52.632 $\pm$ 1.498 χ^2 /NDF: 611.3/24

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF: 699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

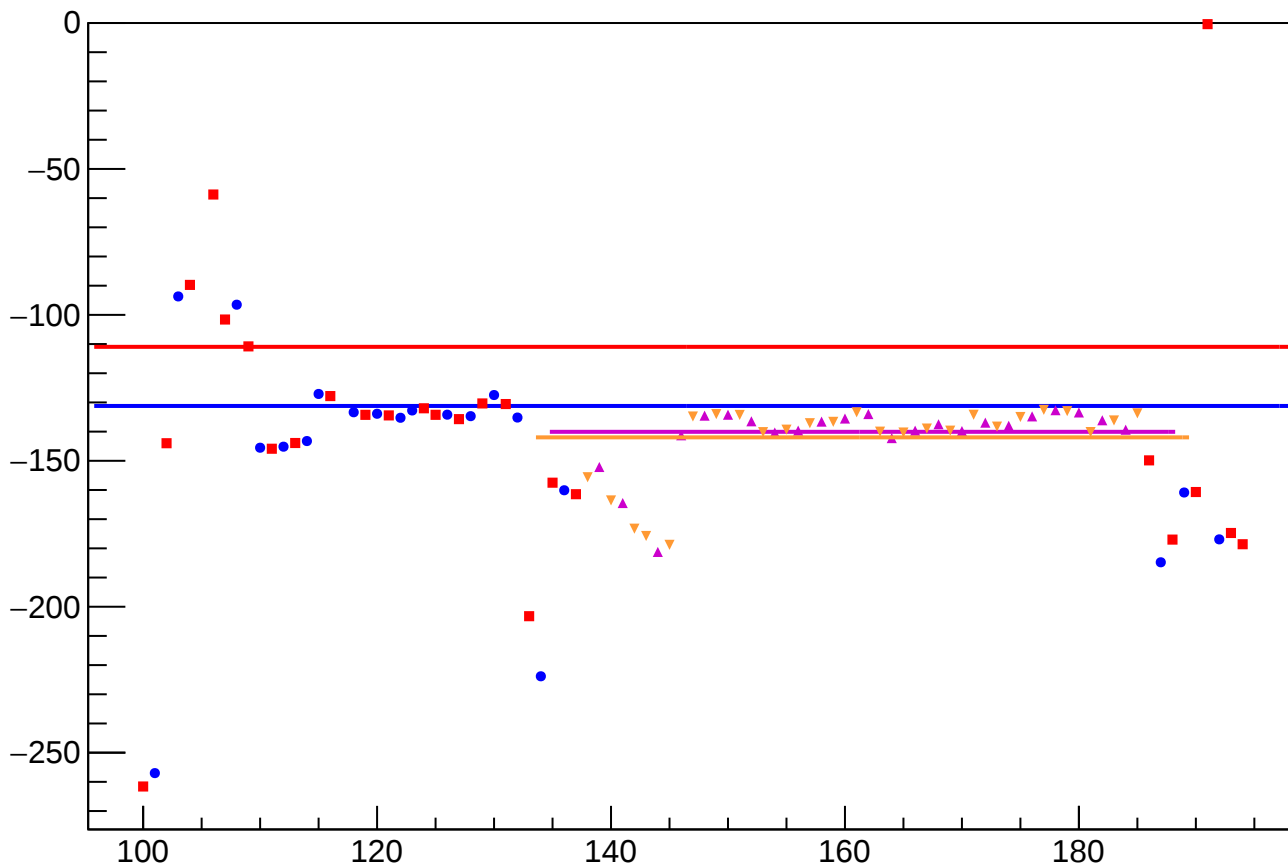
Right: 58.796 $\pm$ 1.127 χ^2 /NDF: 1161.4/44

In: 62.685 $\pm$ 0.838 χ^2 /NDF: 1218.5/42

Out: 59.115 $\pm$ 0.794 χ^2 /NDF: 1508.9/49

All: 60.804 $\pm$ 0.576 χ^2 /NDF: 2736.9/92

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -131.207 ± 0.086 $\chi^2/\text{NDF}: 191376.4/19$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -110.951 ± 0.072 $\chi^2/\text{NDF}: 532761.6/24$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

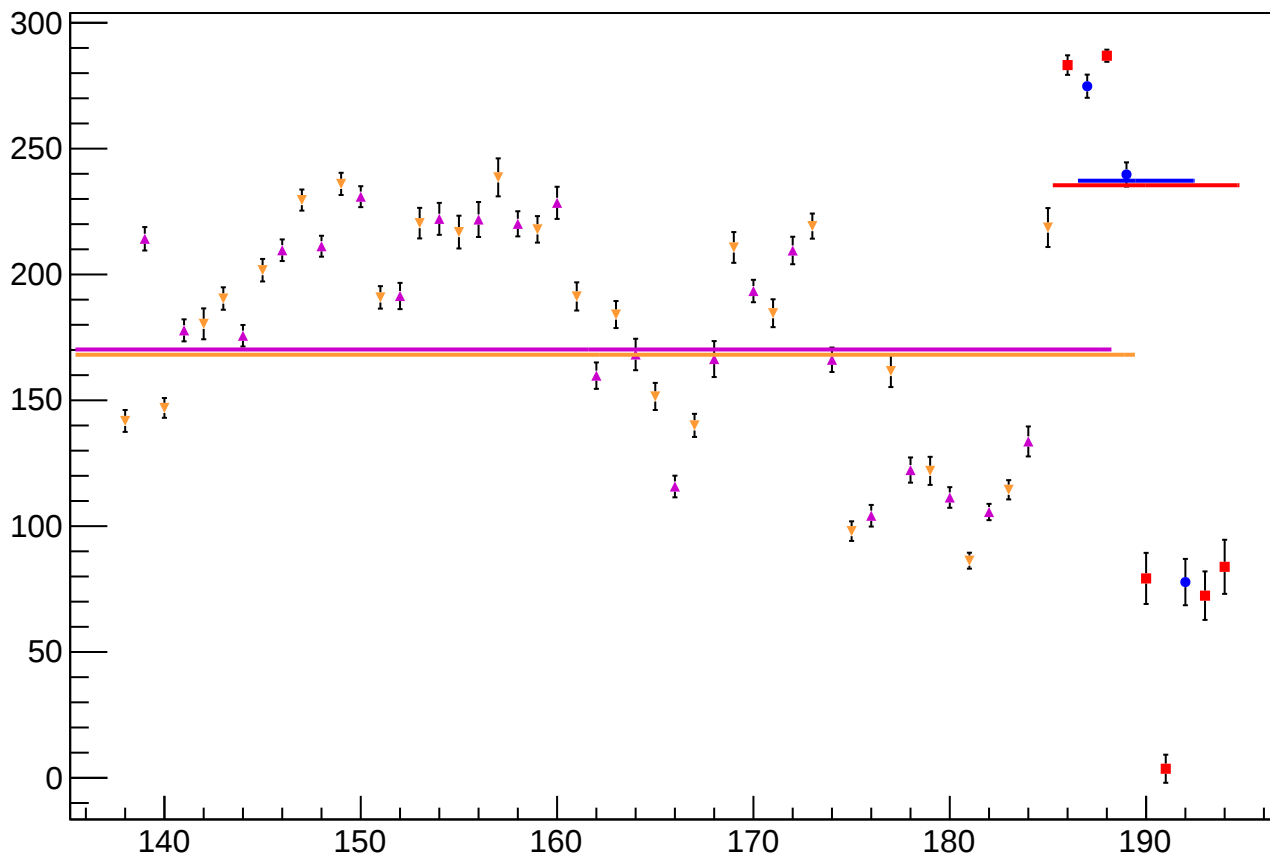
Right: -119.353 ± 0.055 $\chi^2/\text{NDF}: 756898.6/44$

In: -138.150 ± 0.040 $\chi^2/\text{NDF}: 247800.1/42$

Out: -133.353 ± 0.038 $\chi^2/\text{NDF}: 746765.0/49$

All: -135.638 ± 0.027 $\chi^2/\text{NDF}: 1002159.9/92$

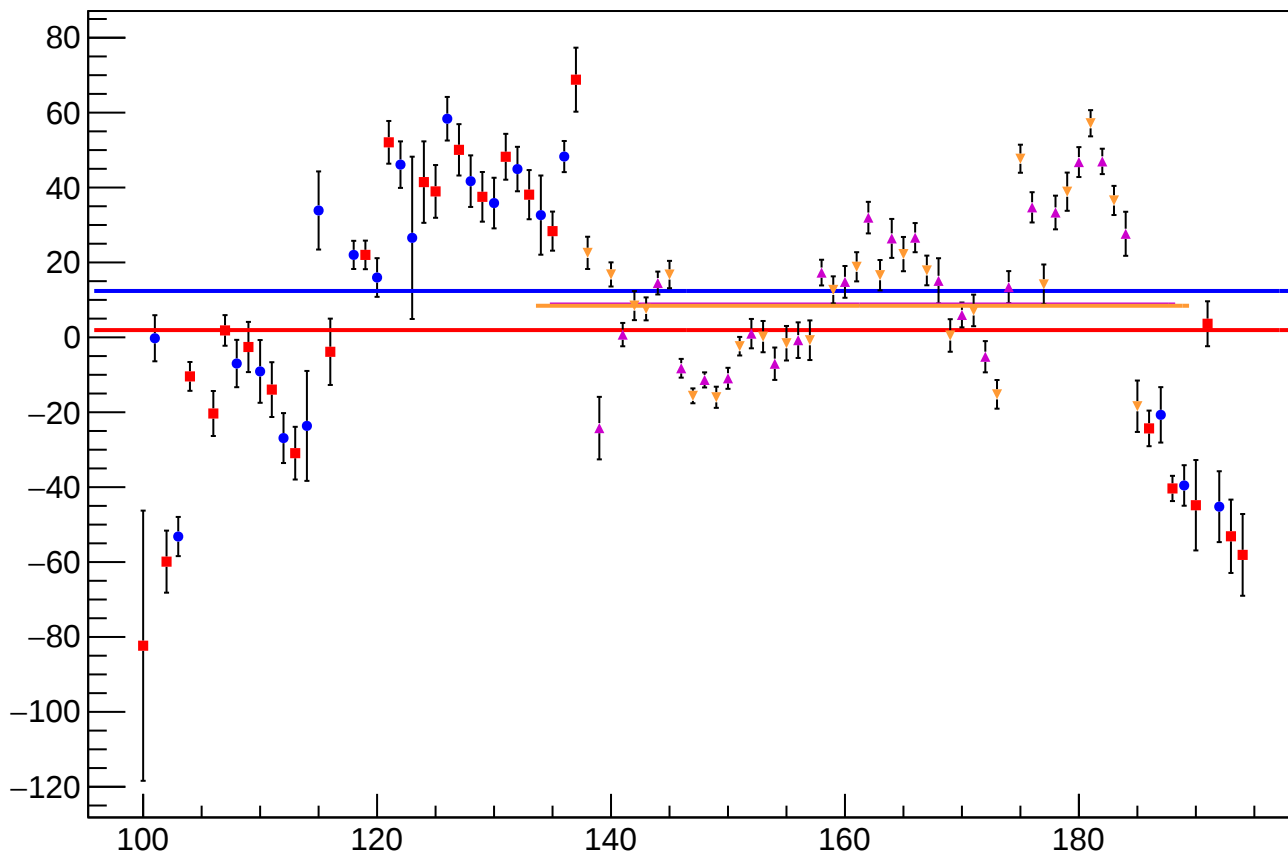
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 237.260 $\pm$ 3.125 χ^2 /NDF: 366.8/2
 Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24
 Right Out: 235.452 $\pm$ 1.827 χ^2 /NDF: 3052.4/5
 Left In: 170.198 $\pm$ 0.995 χ^2 /NDF:2024.5/22

Left: 169.125 $\pm$ 0.695 χ^2 /NDF: 4495.5/47
 Right: 235.913 $\pm$ 1.577 χ^2 /NDF: 3419.4/8
 In: 176.376 $\pm$ 0.948 χ^2 /NDF:2809.4/25
 Out: 182.918 $\pm$ 0.857 χ^2 /NDF:6580.9/30
 All: 179.978 $\pm$ 0.636 χ^2 /NDF: 9416.5/56

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.384 $\pm$ 1.406 χ^2 /NDF: 609.2/19

Left Out: 8.436 $\pm$ 0.728 χ^2 /NDF: 752.0/24

Right Out: 1.940 $\pm$ 1.193 χ^2 /NDF: 775.6/24

Left In: 8.769 $\pm$ 0.758 χ^2 /NDF: 626.8/22

Left: 8.596 $\pm$ 0.525 χ^2 /NDF: 1379.0/47

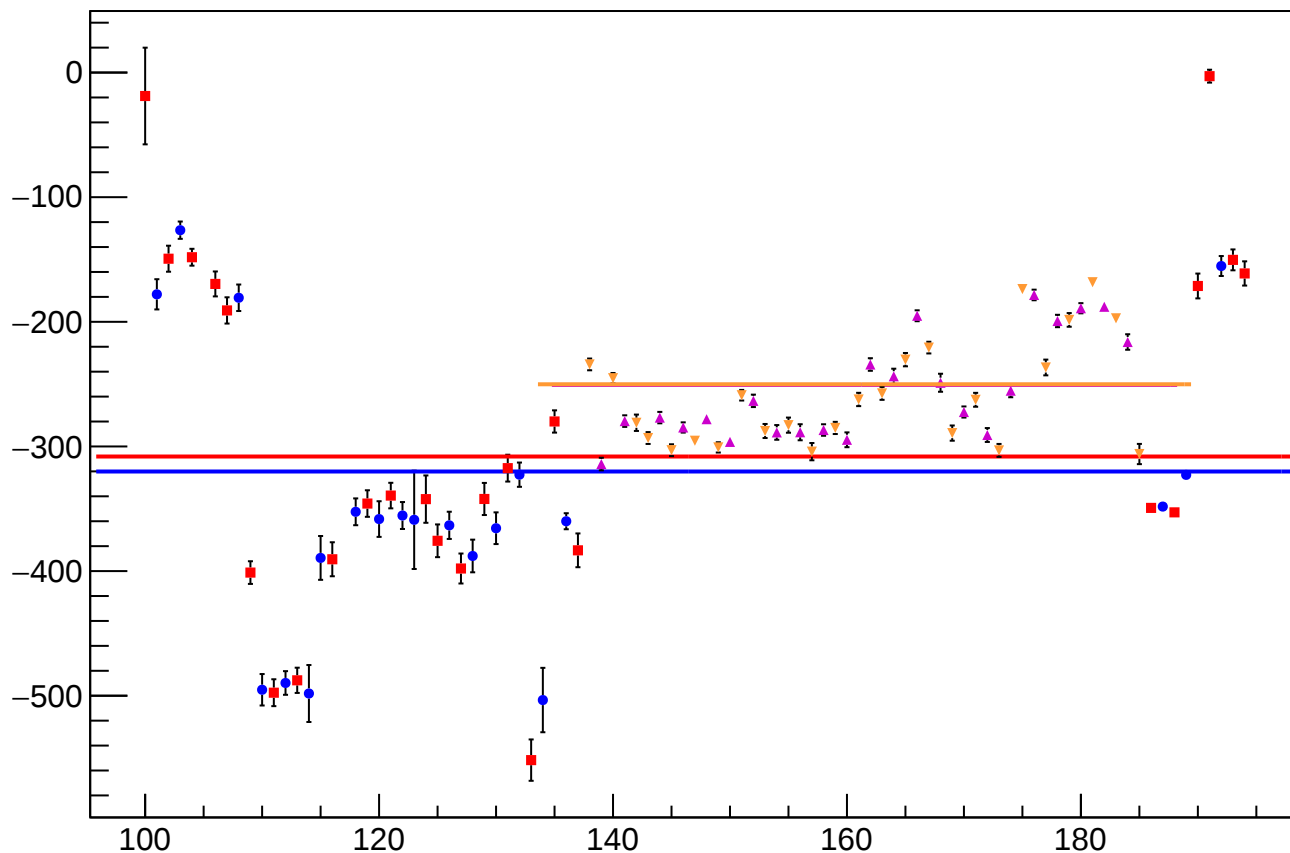
Right: 6.315 $\pm$ 0.910 χ^2 /NDF: 1416.9/44

In: 9.584 $\pm$ 0.667 χ^2 /NDF: 1241.2/42

Out: 6.674 $\pm$ 0.622 χ^2 /NDF: 1549.2/49

All: 8.025 $\pm$ 0.455 χ^2 /NDF: 2800.6/92

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -320.095+/-1.865 χ^2/NDF : 2328.0/19

Left Out: -250.119+/-0.972 χ^2/NDF : 2246.9/24

Right Out: -308.071+/-1.291 χ^2/NDF : 7265.6/24

Left In: -250.628+/-0.990 χ^2/NDF : 1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

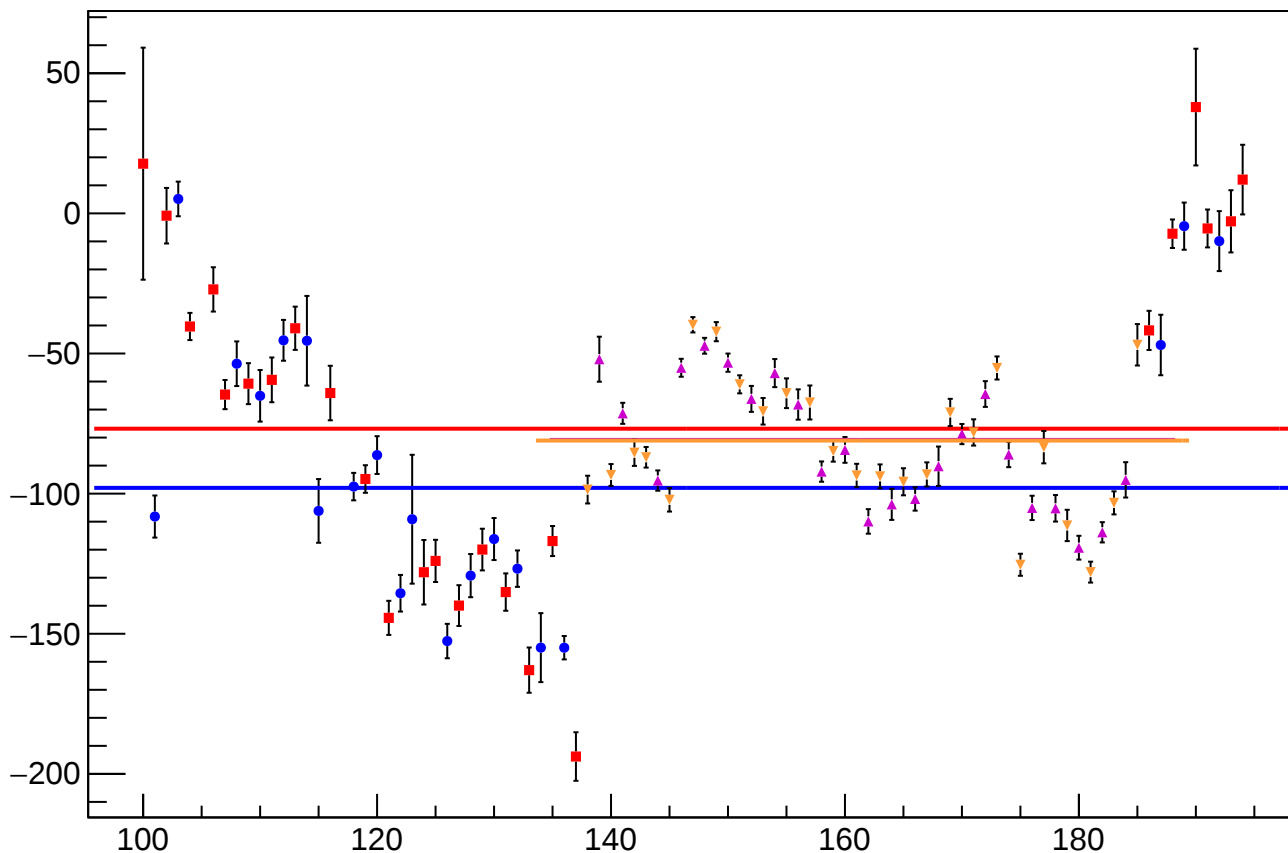
Right: -311.963+/-1.061 χ^2/NDF : 9621.8/44

In: -265.903+/-0.875 χ^2/NDF : 5347.0/42

Out: -271.099+/-0.777 χ^2/NDF : 10798.6/49

All: -268.809+/-0.581 χ^2/NDF : 16165.3/92

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -97.943 ± 1.641 χ^2/NDF : 966.7/19

Left Out: -81.057 ± 0.843 χ^2/NDF : 913.0/24

Right Out: -76.829 ± 1.440 χ^2/NDF : 1381.8/24

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

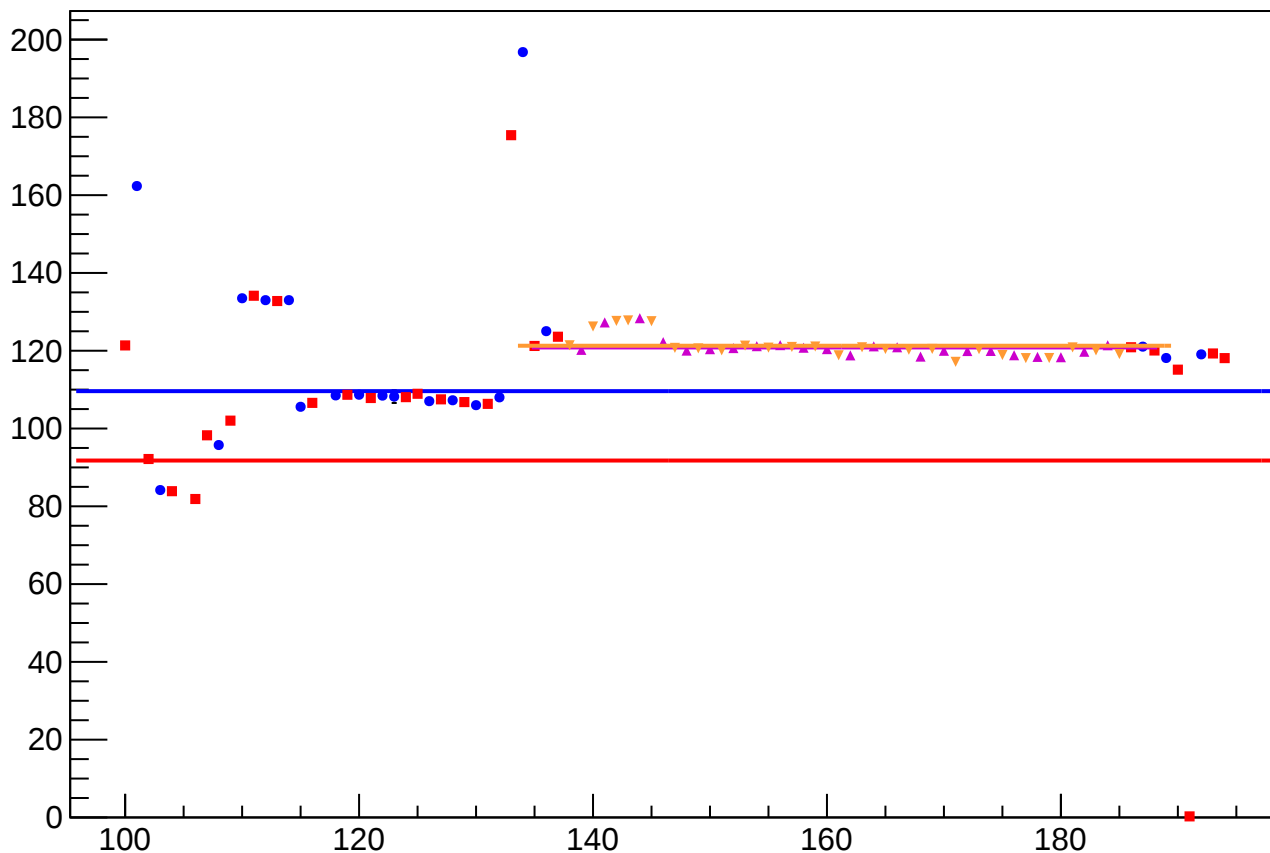
Right: -86.009 ± 1.082 χ^2/NDF : 2442.0/44

In: -84.599 ± 0.770 χ^2/NDF : 1744.5/42

Out: -79.977 ± 0.727 χ^2/NDF : 2301.3/49

All: -82.157 ± 0.529 χ^2/NDF : 4064.9/92

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 109.611 $\pm$ 0.080 χ^2 /NDF: 74981.6/19

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 91.768 $\pm$ 0.067 χ^2 /NDF: 342025.4/24

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

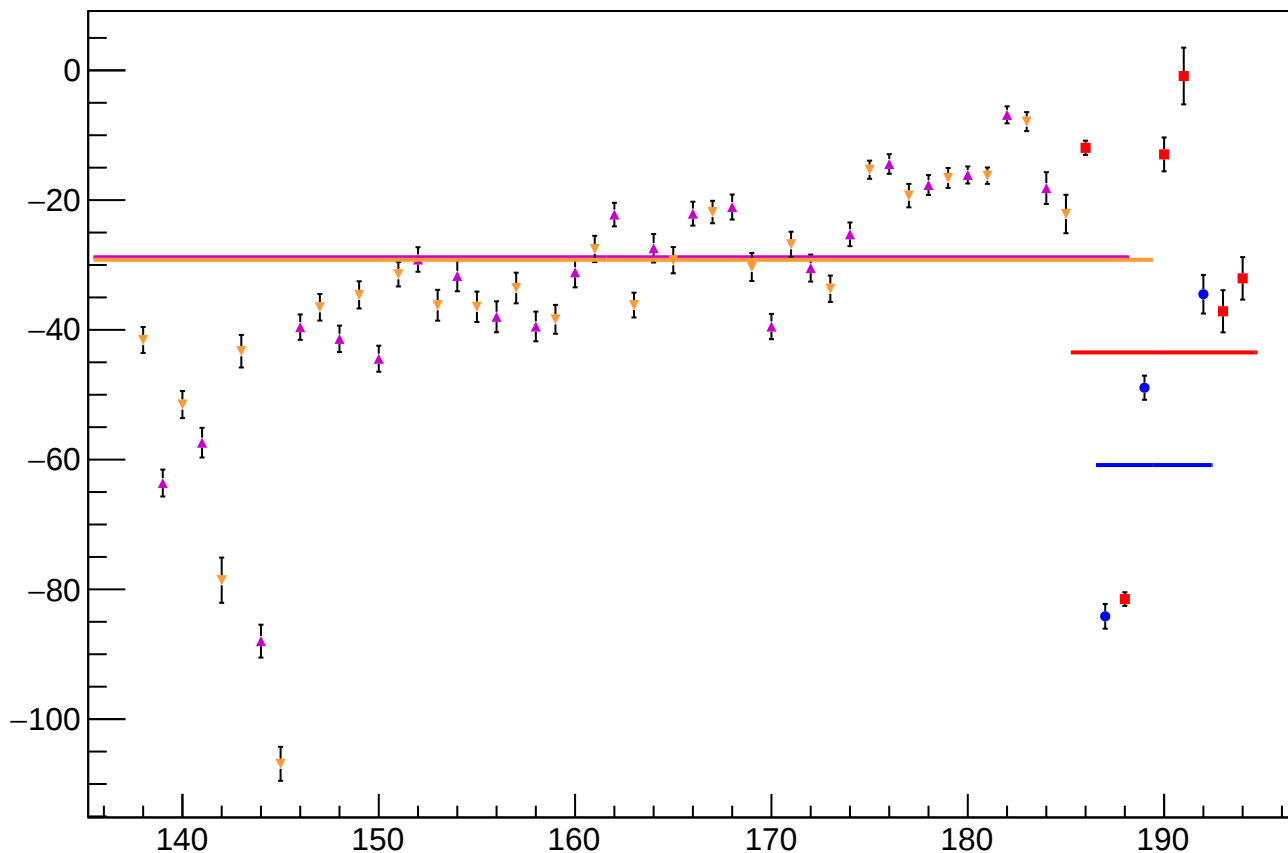
Right: 99.100 $\pm$ 0.051 χ^2 /NDF: 446095.6/44

In: 118.547 $\pm$ 0.036 χ^2 /NDF: 93919.4/42

Out: 113.508 $\pm$ 0.034 χ^2 /NDF: 489651.8/49

All: 115.894 $\pm$ 0.025 χ^2 /NDF: 593720.2/92

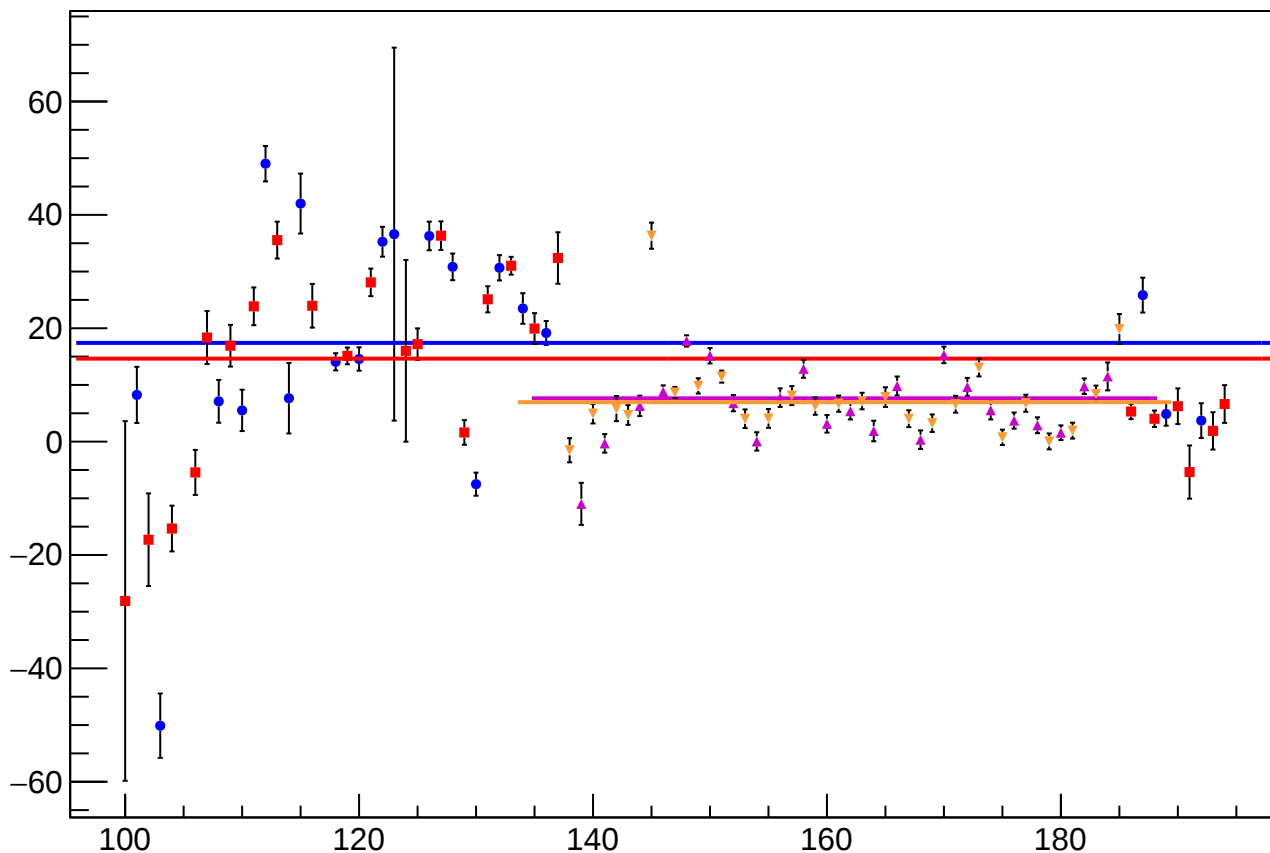
reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -60.837 $\pm$ 1.215 χ^2 /NDF: 269.1/2
 Left Out: -29.199 $\pm$ 0.389 χ^2 /NDF:1881.5/24
 Right Out: -43.479 $\pm$ 0.686 χ^2 /NDF: 2385.0/5
 Left In: -28.810 $\pm$ 0.395 χ^2 /NDF:1763.8/22

Left: -29.008 $\pm$ 0.277 χ^2 /NDF: 3645.8/47
 Right: -47.676 $\pm$ 0.597 χ^2 /NDF: 2808.8/8
 In: -31.876 $\pm$ 0.376 χ^2 /NDF:2661.2/25
 Out: -32.667 $\pm$ 0.338 χ^2 /NDF:4594.5/30
 All: -32.313 $\pm$ 0.251 χ^2 /NDF: 7258.2/56

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.418 $\pm$ 0.599 χ^2 /NDF: 686.1/19

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 14.642 $\pm$ 0.515 χ^2 /NDF: 590.7/24

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

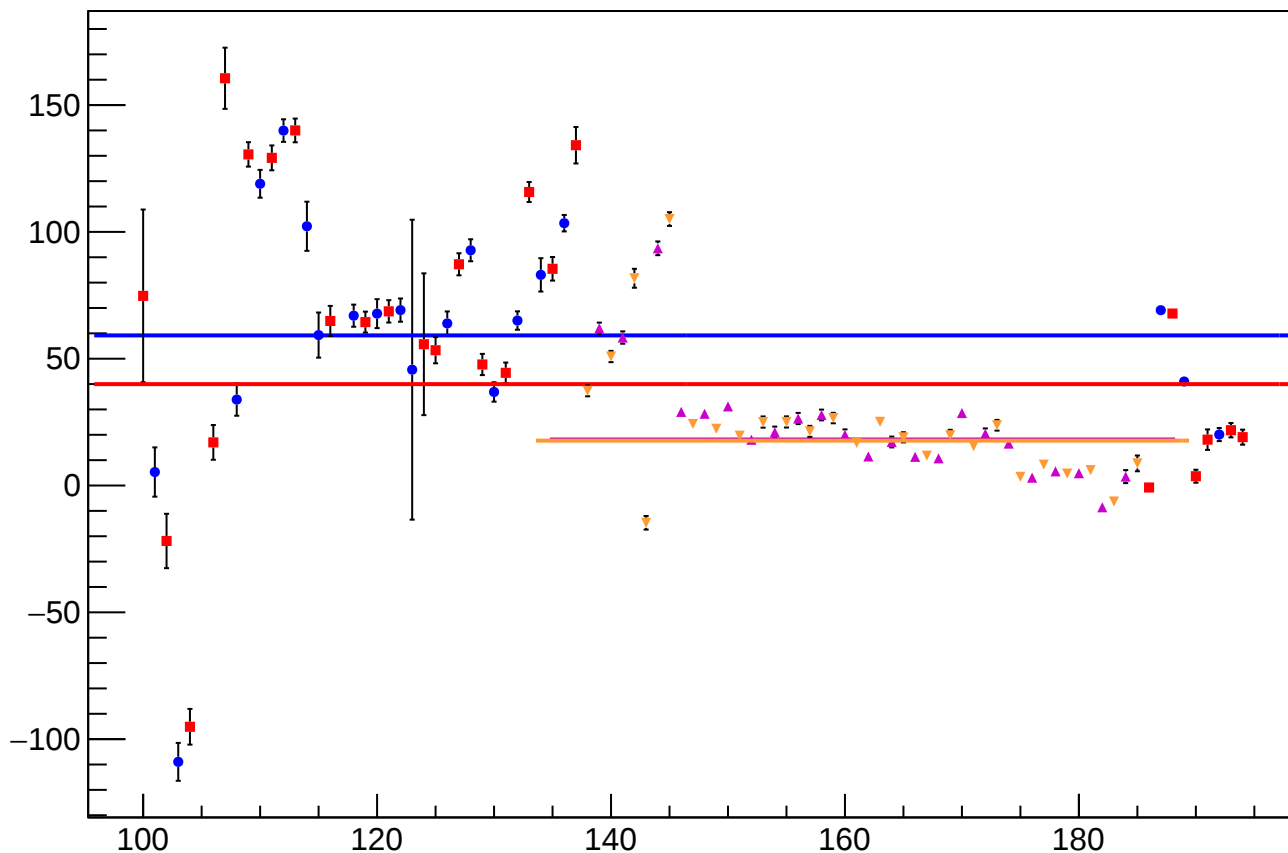
Right: 15.822 $\pm$ 0.391 χ^2 /NDF: 1289.1/44

In: 9.740 $\pm$ 0.278 χ^2 /NDF:1233.0/42

Out: 8.934 $\pm$ 0.261 χ^2 /NDF:1077.2/49

All: 9.313 $\pm$ 0.190 χ^2 /NDF: 2314.7/92

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 59.185 $\pm$ 0.787 χ^2 /NDF: 1729.6/19

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 39.973 $\pm$ 0.512 χ^2 /NDF: 6077.7/24

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF:2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

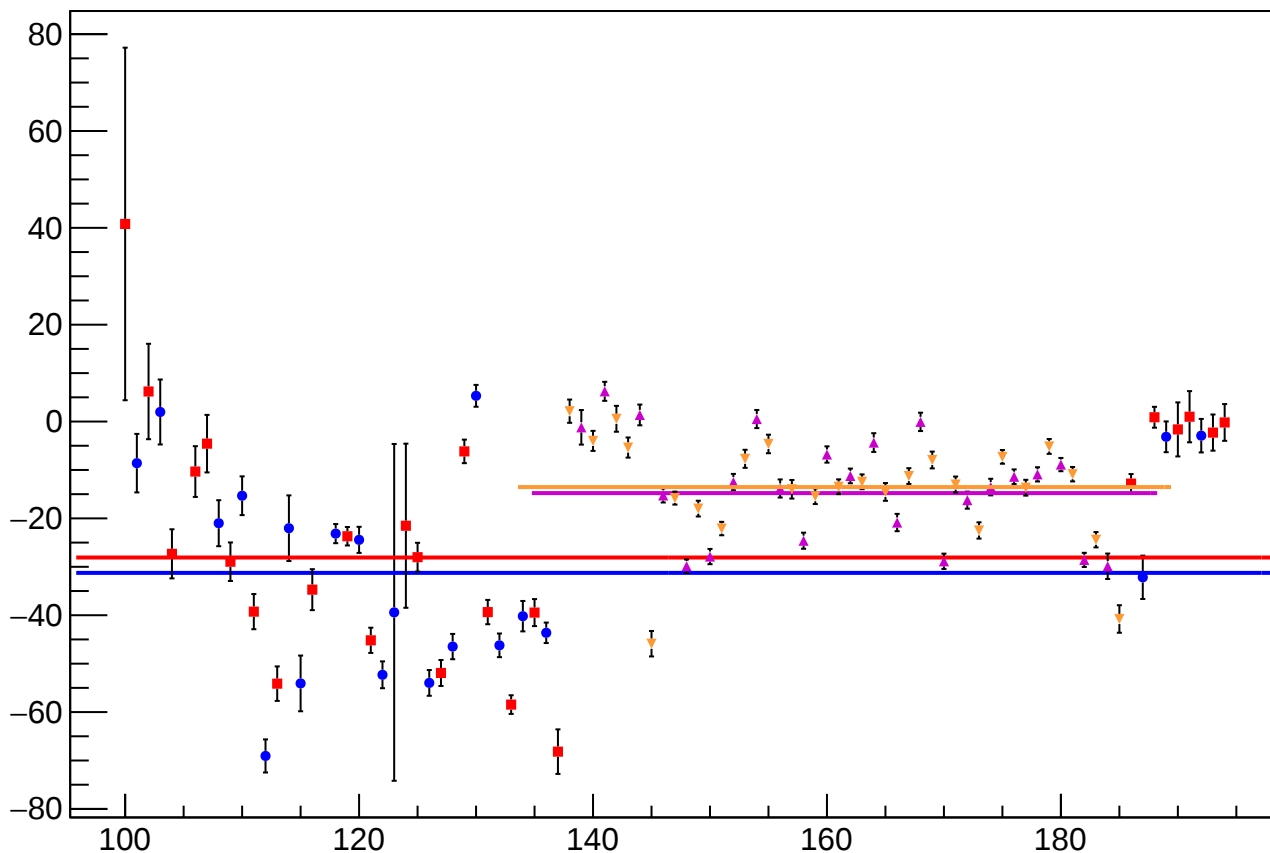
Right: 45.681 $\pm$ 0.429 χ^2 /NDF: 8225.8/44

In: 26.320 $\pm$ 0.351 χ^2 /NDF:6244.4/42

Out: 25.810 $\pm$ 0.309 χ^2 /NDF:9713.5/49

All: 26.032 $\pm$ 0.232 χ^2 /NDF: 15959.1/92

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -31.254 $\pm$ 0.702 χ^2/NDF : 874.7/19

Left Out: -13.531 $\pm$ 0.344 χ^2/NDF : 572.8/24

Right Out: -28.080 $\pm$ 0.630 χ^2/NDF : 1073.0/24

Left In: -14.778 $\pm$ 0.354 χ^2/NDF : 838.0/22

Left: -14.136 $\pm$ 0.247 χ^2/NDF : 1417.2/47

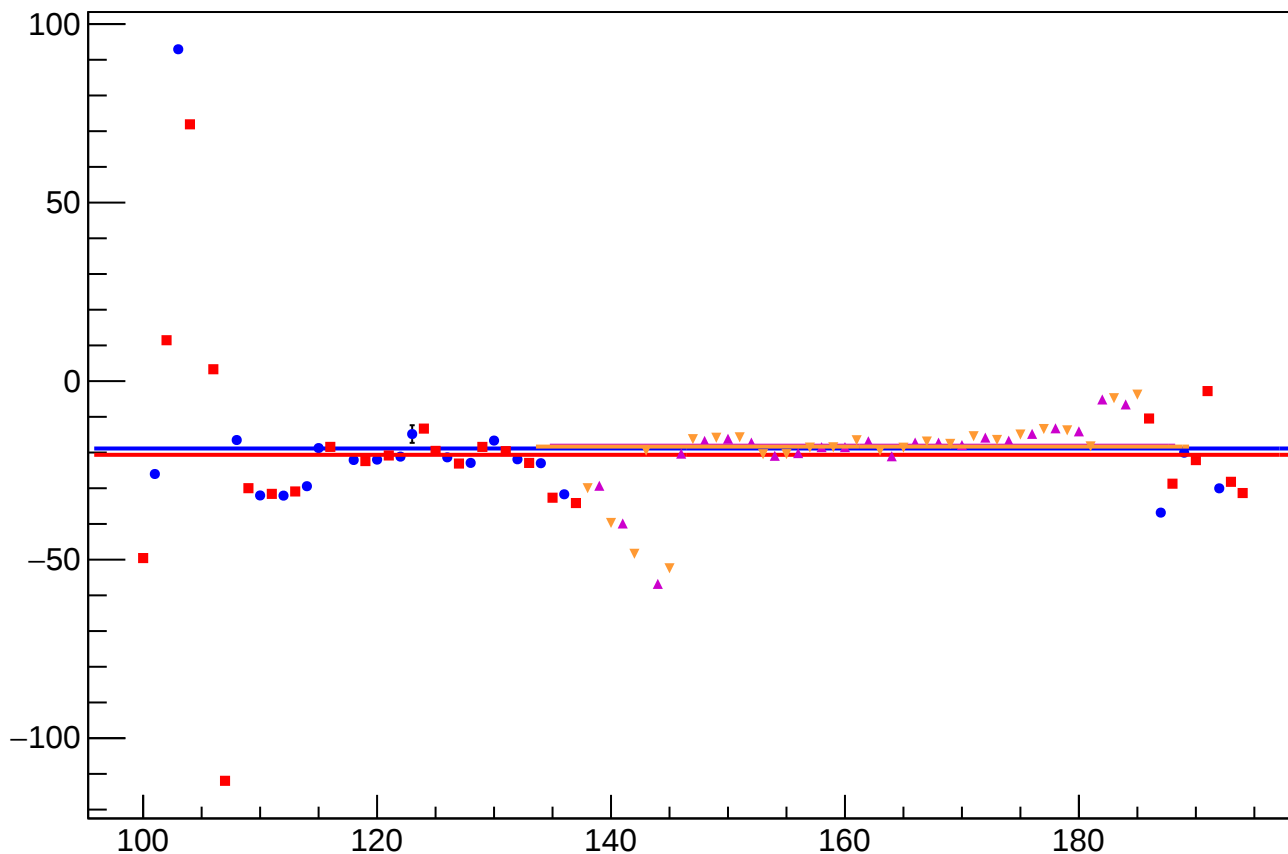
Right: -29.495 $\pm$ 0.469 χ^2/NDF : 1959.0/44

In: -18.119 $\pm$ 0.316 χ^2/NDF : 2151.7/42

Out: -16.873 $\pm$ 0.302 χ^2/NDF : 2056.6/49

All: -17.467 $\pm$ 0.218 χ^2/NDF : 4216.4/92

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -18.868 ± 0.039 $\chi^2/\text{NDF}: 492849.5/19$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -20.638 ± 0.034 $\chi^2/\text{NDF}: 475232.9/24$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

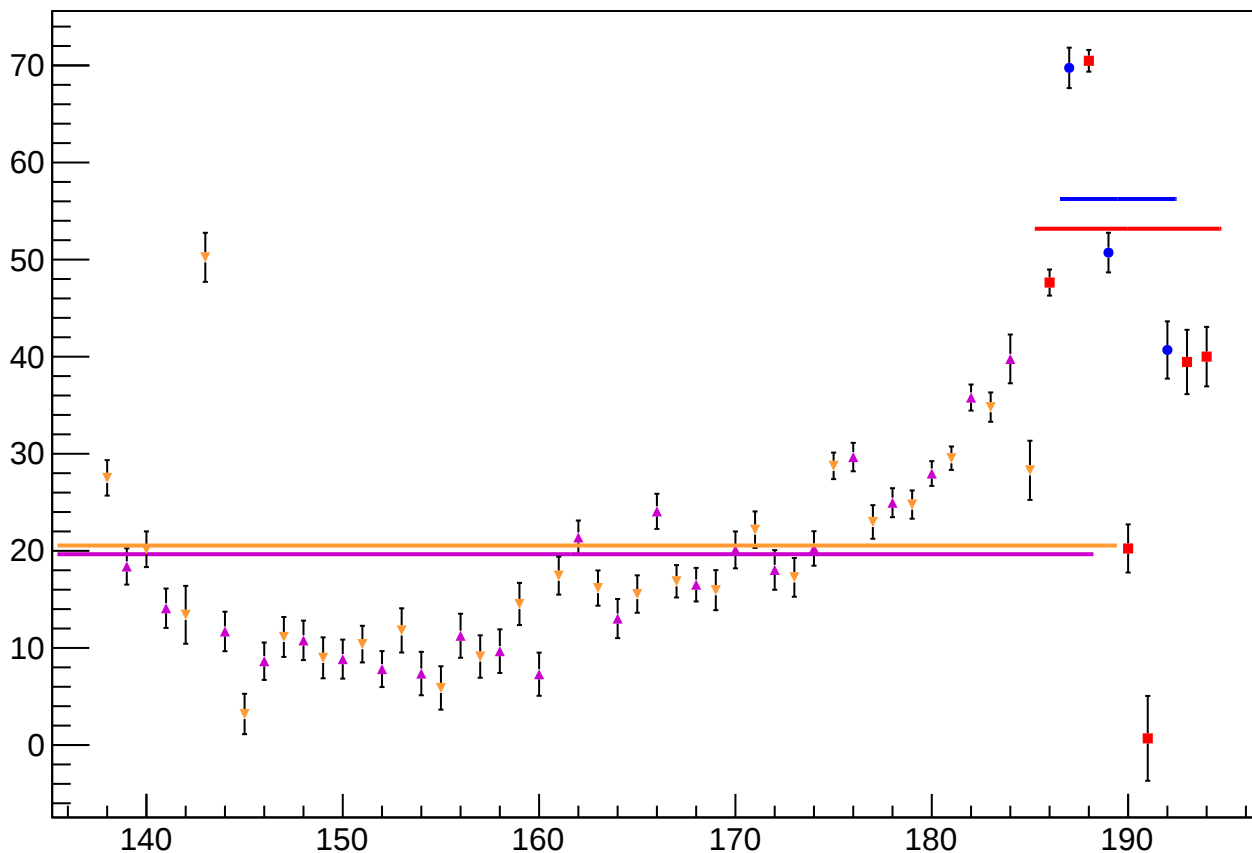
Right: -19.877 ± 0.026 $\chi^2/\text{NDF}: 969241.0/44$

In: -18.196 ± 0.015 $\chi^2/\text{NDF}: 735141.4/42$

Out: -18.743 ± 0.014 $\chi^2/\text{NDF}: 763141.4/49$

All: -18.479 ± 0.010 $\chi^2/\text{NDF}: 1498982.0/92$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 56.243 $\pm$ 1.307 χ^2 /NDF: 77.2/2

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 53.178 $\pm$ 0.752 χ^2 /NDF: 612.6/5

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

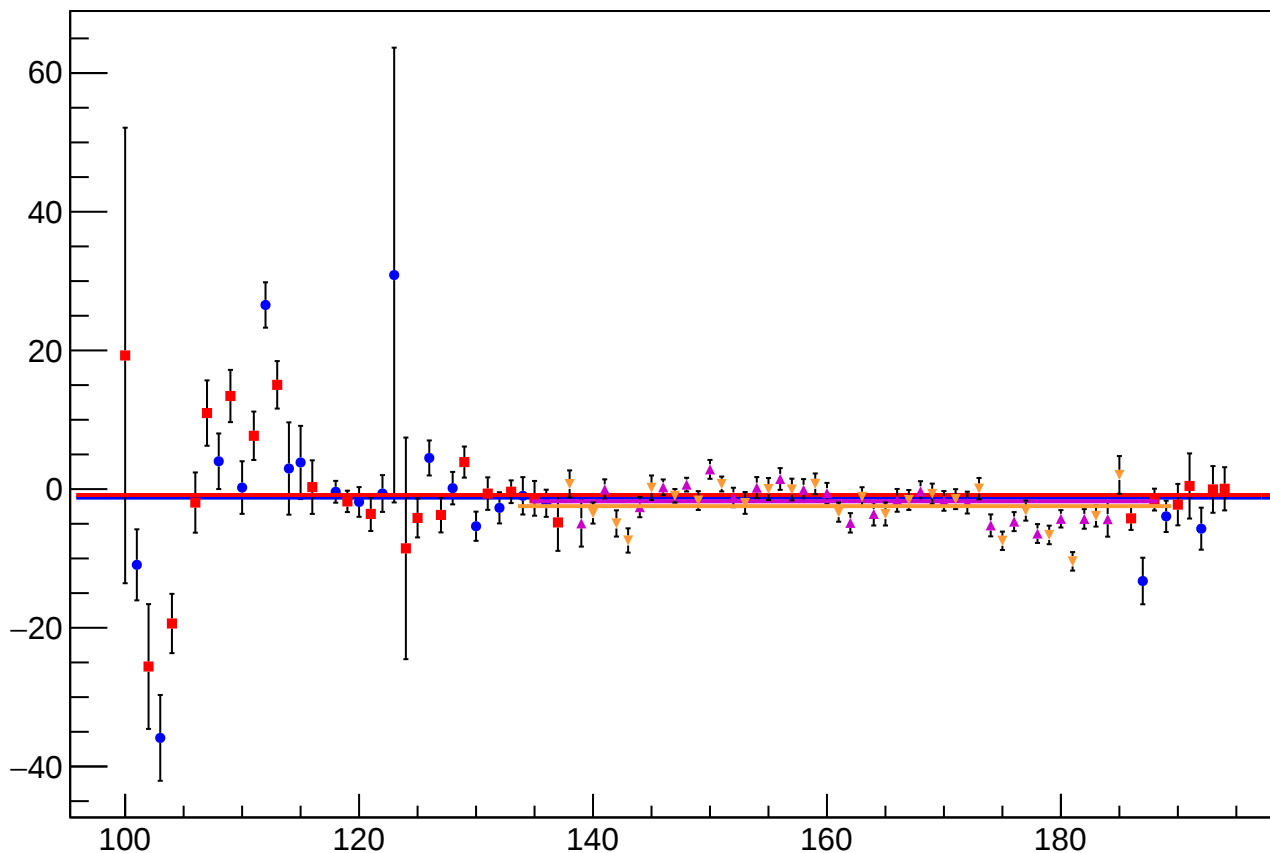
Right: 53.941 $\pm$ 0.652 χ^2 /NDF: 693.9/8

In: 22.514 $\pm$ 0.365 χ^2 /NDF: 1371.6/25

Out: 26.989 $\pm$ 0.334 χ^2 /NDF: 2748.4/30

All: 24.949 $\pm$ 0.247 χ^2 /NDF: 4201.7/56

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.227 ± 0.612 χ^2/NDF : 137.9/19

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -0.850 ± 0.540 χ^2/NDF : 89.8/24

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

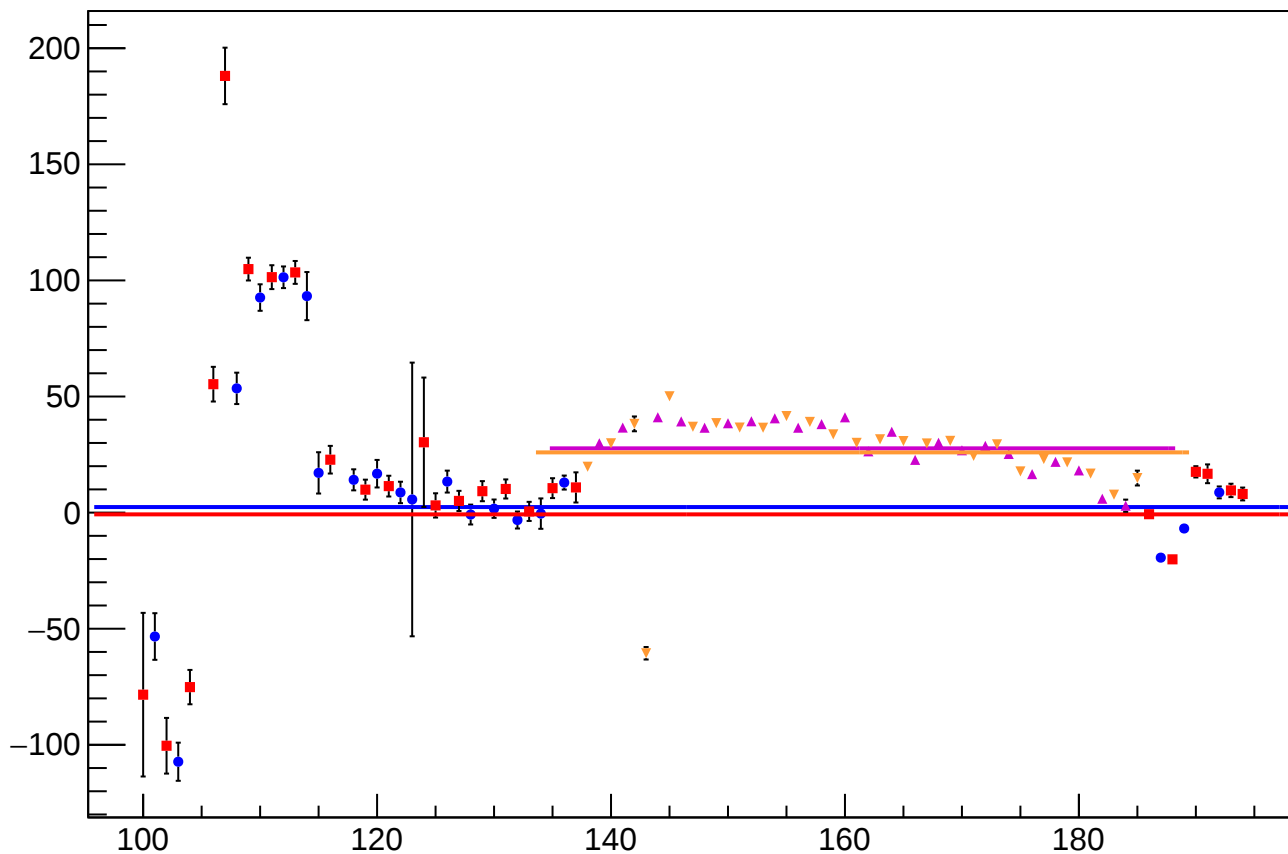
Right: -1.015 ± 0.405 χ^2/NDF : 228.0/44

In: -1.654 ± 0.271 χ^2/NDF : 206.0/42

Out: -2.091 ± 0.257 χ^2/NDF : 202.6/49

All: -1.884 ± 0.186 χ^2/NDF : 409.9/92

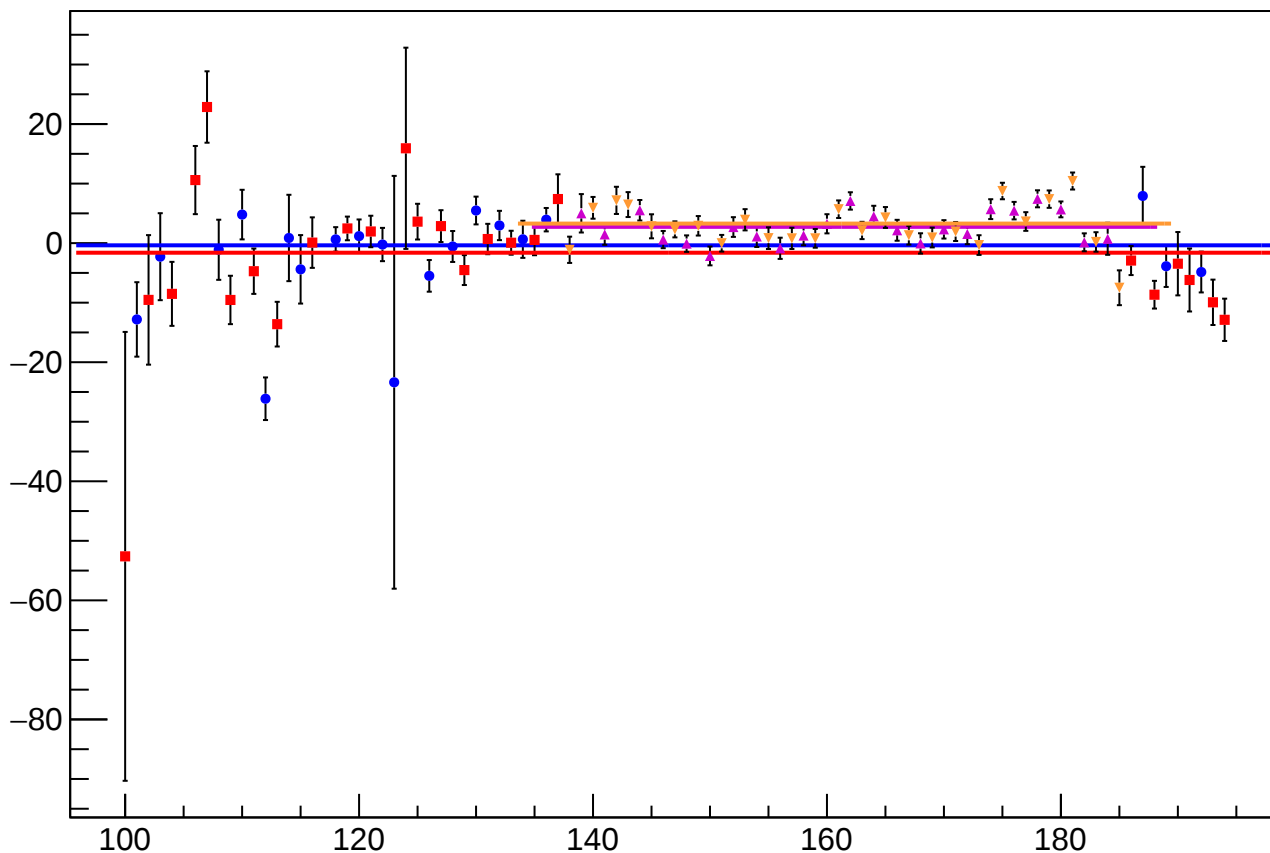
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.395 ± 0.827 χ^2/NDF : 1277.7/19
 Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24
 Right Out: -0.752 ± 0.557 χ^2/NDF : 2393.0/24
 Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47
 Right: 0.231 ± 0.462 χ^2/NDF : 3680.6/44
 In: 23.301 ± 0.344 χ^2/NDF : 2855.0/42
 Out: 17.702 ± 0.310 χ^2/NDF : 5690.2/49
 All: 20.208 ± 0.230 χ^2/NDF : 8691.6/92

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.367 ± 0.712 χ^2/NDF : 81.3/19

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -1.609 ± 0.652 χ^2/NDF : 86.5/24

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

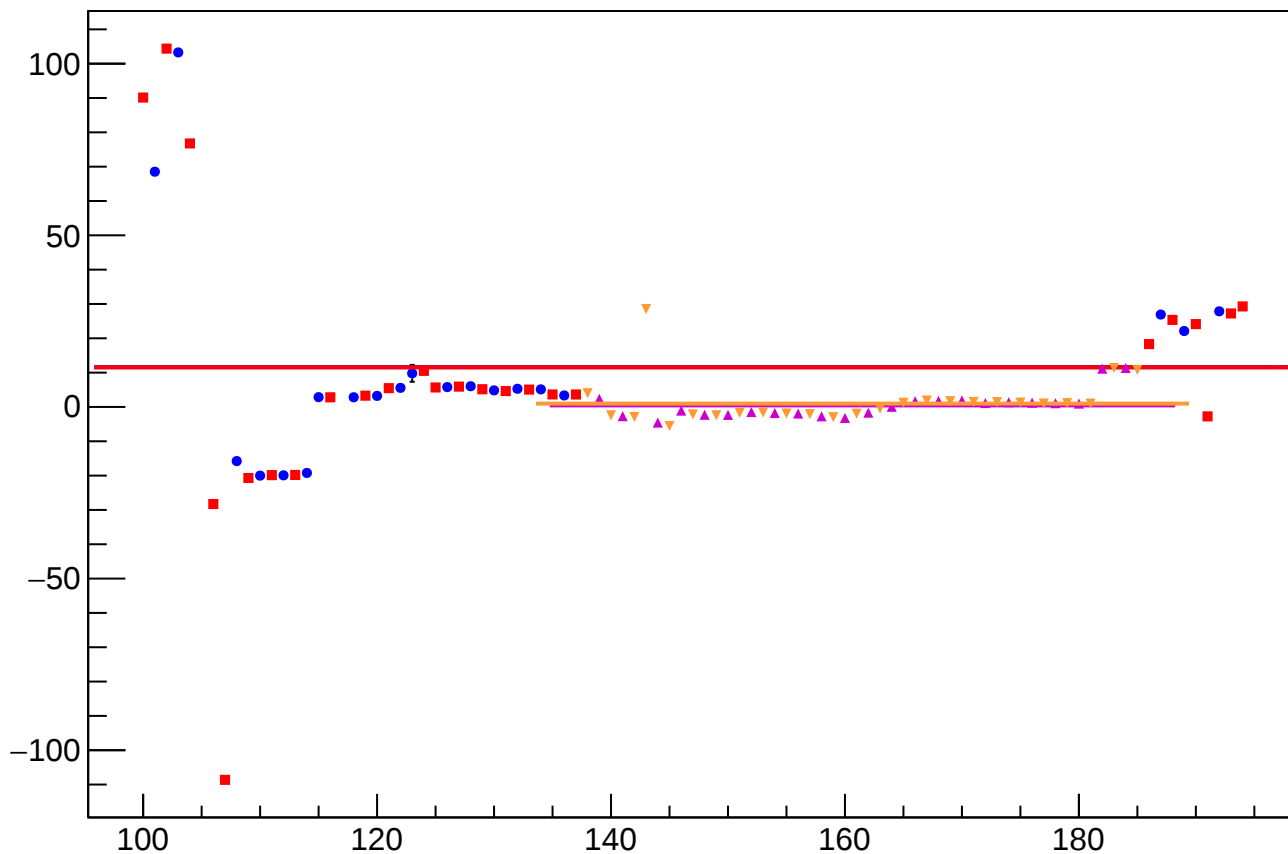
Right: -1.042 ± 0.481 χ^2/NDF : 169.4/44

In: 2.158 ± 0.308 χ^2/NDF : 161.3/42

Out: 2.279 ± 0.295 χ^2/NDF : 233.4/49

All: 2.221 ± 0.213 χ^2/NDF : 394.8/92

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 11.582+/-0.039 χ^2/NDF : 394555.5/19

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 11.539+/-0.035 χ^2/NDF : 620438.3/24

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

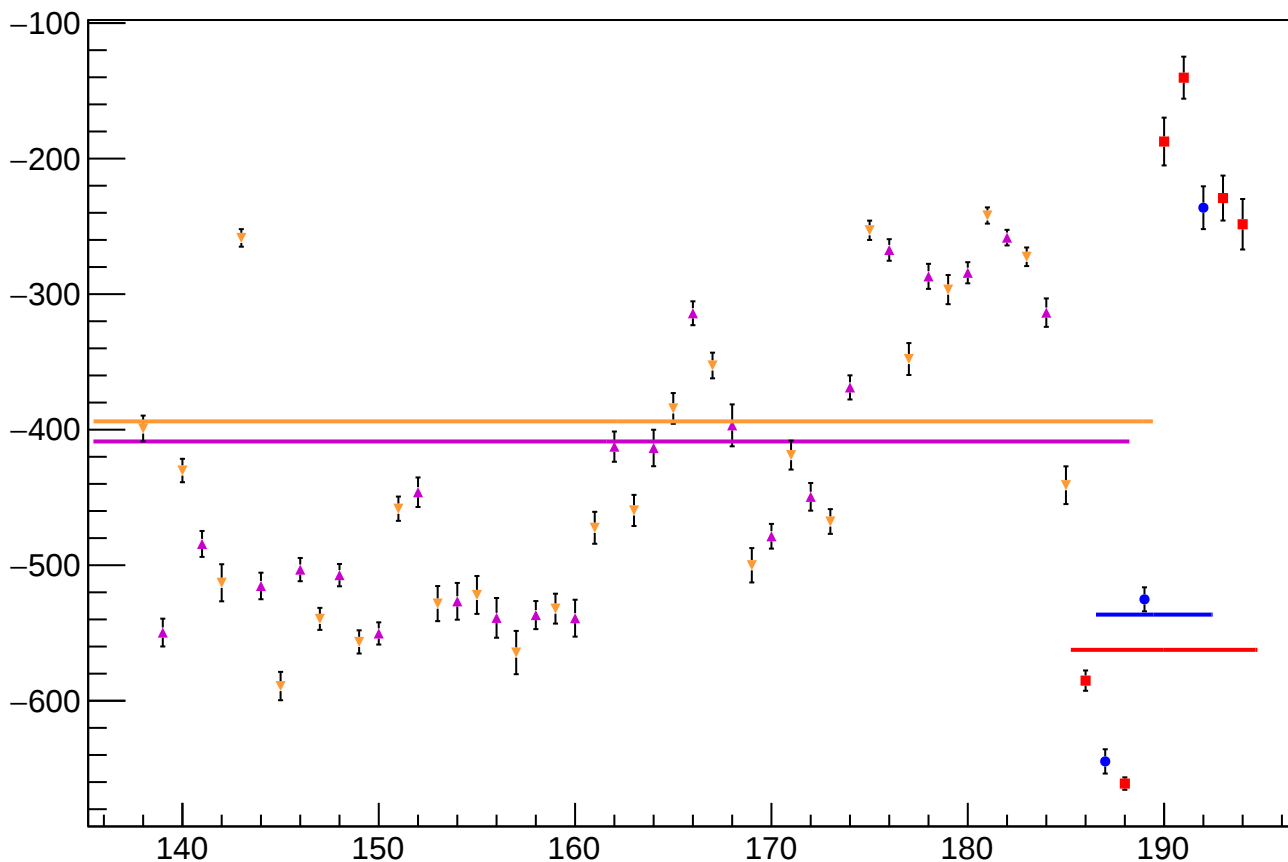
Right: 11.558+/-0.026 χ^2/NDF : 1014994.5/44

In: 1.928+/-0.014 χ^2/NDF : 514270.8/42

Out: 2.691+/-0.014 χ^2/NDF : 816153.2/49

All: 2.322+/-0.010 χ^2/NDF : 1331879.5/92

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -536.437+/-5.853 χ^2/NDF : 509.1/2

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -562.433+/-3.556 χ^2/NDF : 2352.1/5

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

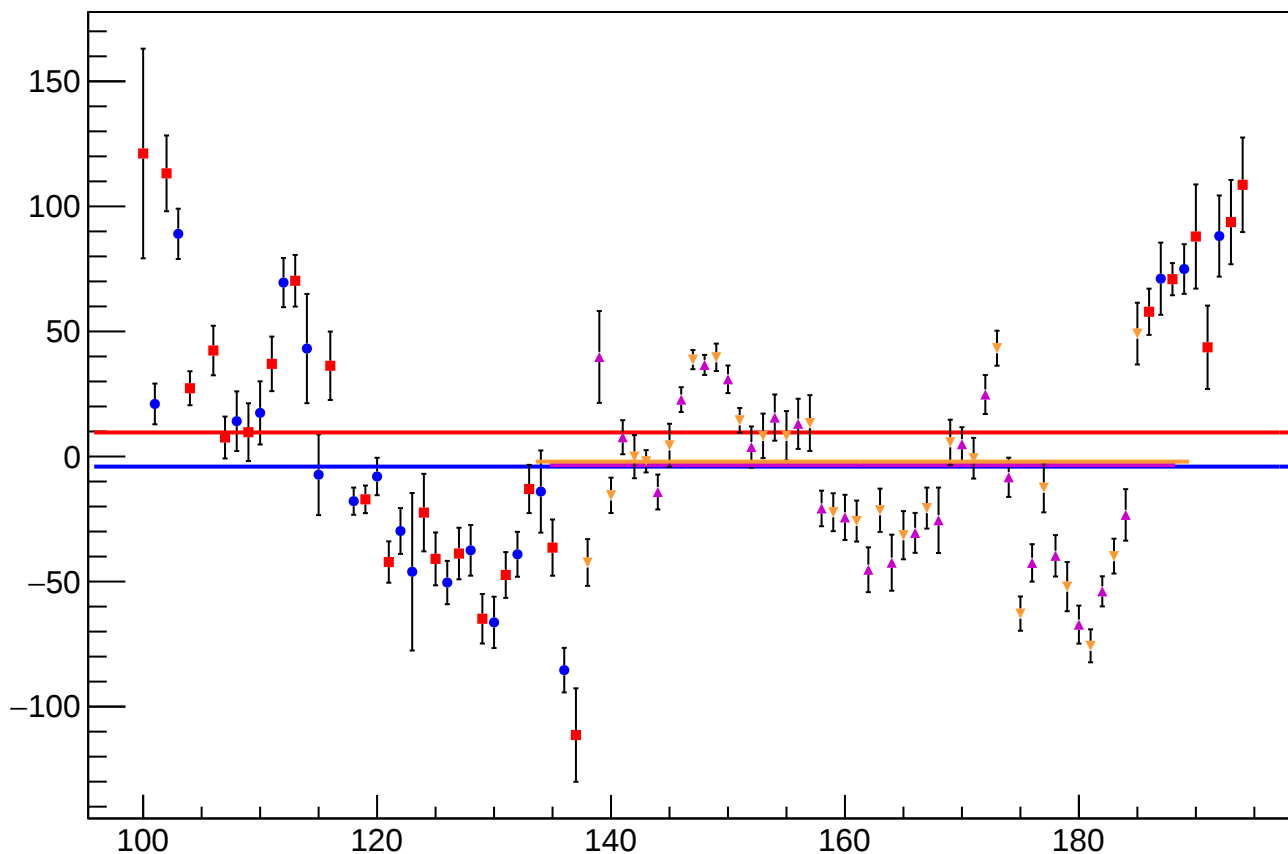
Right: -555.424+/-3.039 χ^2/NDF : 2875.6/8

In: -421.800+/-1.875 χ^2/NDF : 3999.4/25

Out: -431.210+/-1.674 χ^2/NDF : 7873.8/30

All: -427.036+/-1.249 χ^2/NDF : 11887.2/56

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.036 ± 2.240 $\chi^2/\text{NDF}: 475.9/19$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 9.619 ± 2.026 $\chi^2/\text{NDF}: 577.0/24$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

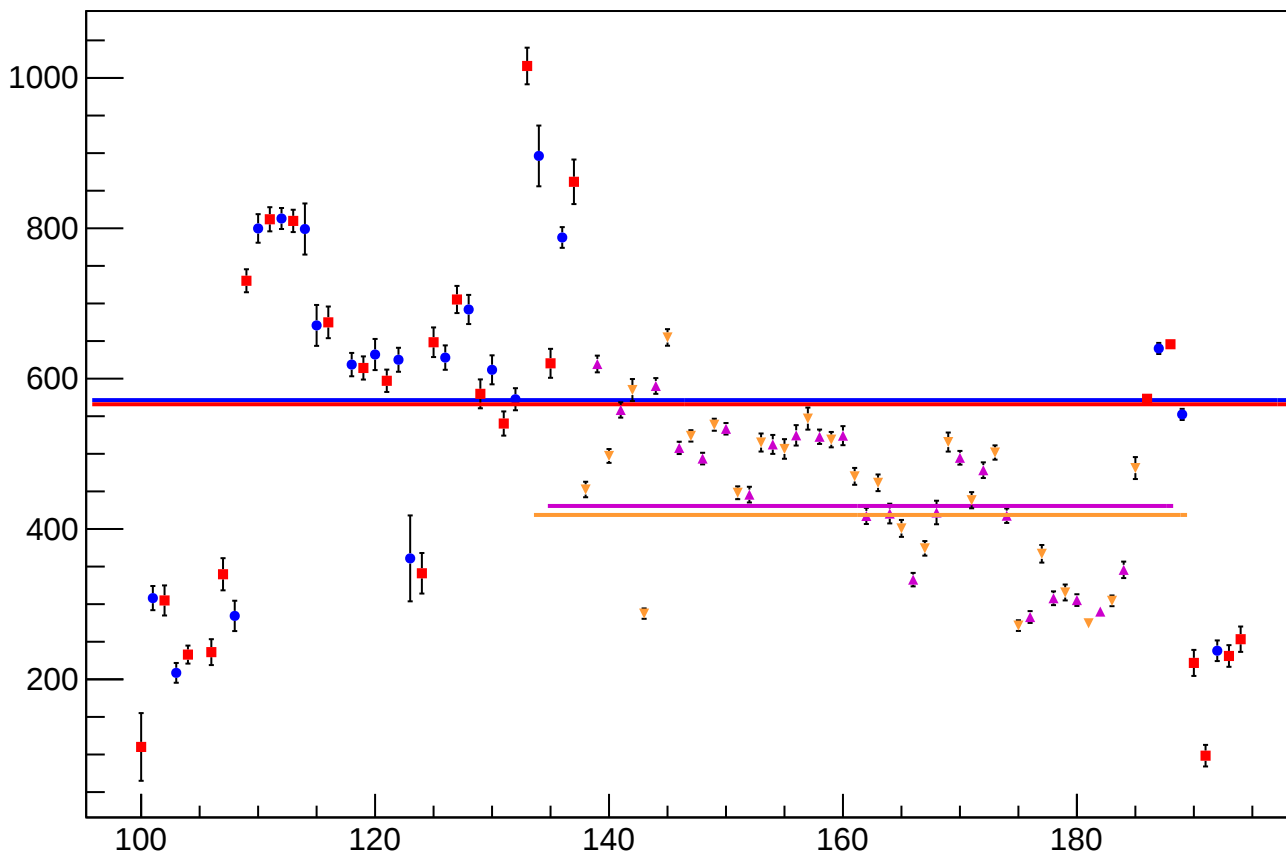
Right: 3.475 ± 1.502 $\chi^2/\text{NDF}: 1073.3/44$

In: -3.614 ± 1.258 $\chi^2/\text{NDF}: 926.9/42$

Out: 1.819 ± 1.165 $\chi^2/\text{NDF}: 1162.9/49$

All: -0.690 ± 0.855 $\chi^2/\text{NDF}: 2099.9/92$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 571.447 $\pm$ 3.251 χ^2 /NDF: 2824.3/19

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 565.907 $\pm$ 2.383 χ^2 /NDF: 5590.5/24

Left In: 430.640 $\pm$ 1.971 χ^2 /NDF:2850.6/22

Left: 424.457 $\pm$ 1.370 χ^2 /NDF: 6166.1/47

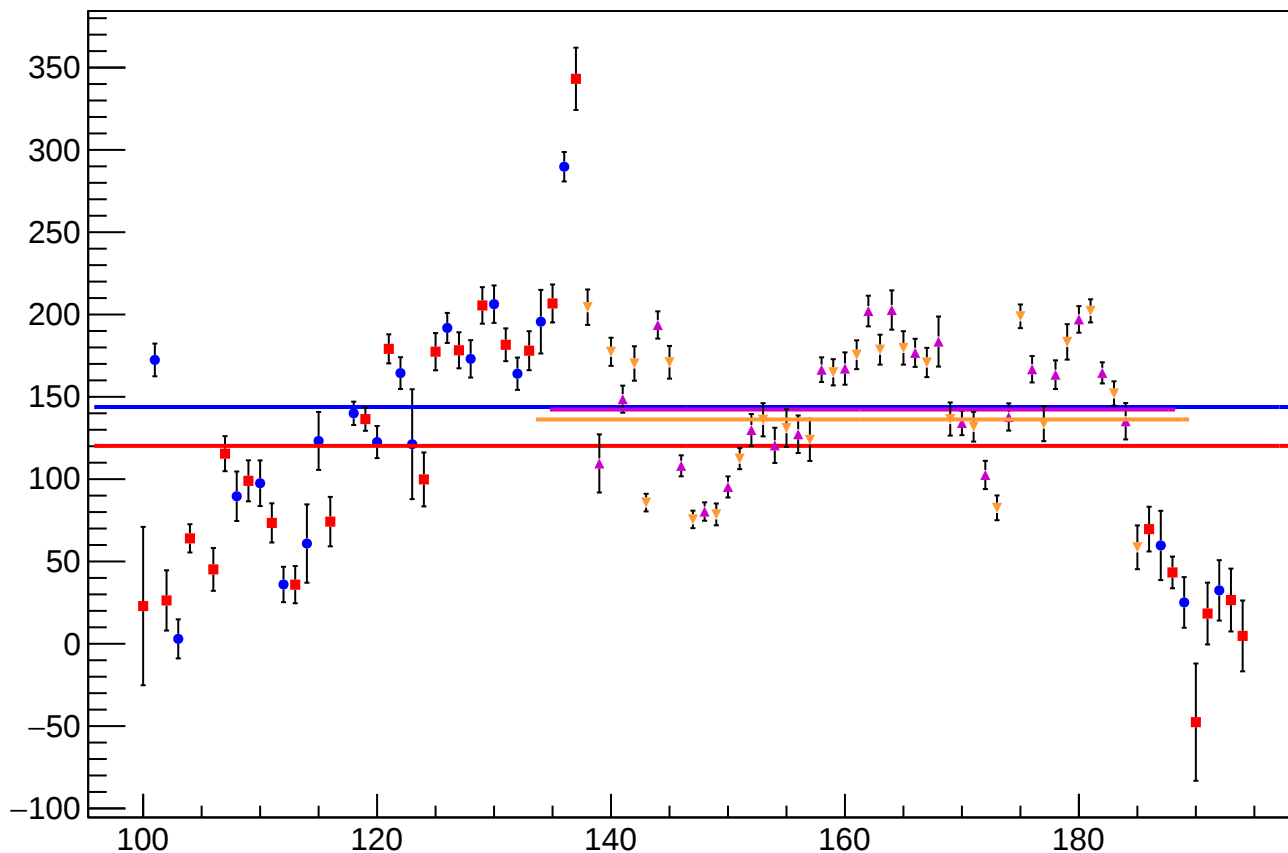
Right: 567.843 $\pm$ 1.922 χ^2 /NDF: 8416.7/44

In: 468.475 $\pm$ 1.685 χ^2 /NDF:7046.6/42

Out: 476.085 $\pm$ 1.488 χ^2 /NDF:11216.1/49

All: 472.751 $\pm$ 1.115 χ^2 /NDF: 18274.2/92

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 143.818 $\pm$ 2.625 χ^2 /NDF: 752.3/19

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF: 758.3/24

Right Out: 120.215 $\pm$ 2.422 χ^2 /NDF: 793.2/24

Left In: 142.296 $\pm$ 1.745 χ^2 /NDF: 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2 /NDF: 1224.4/47

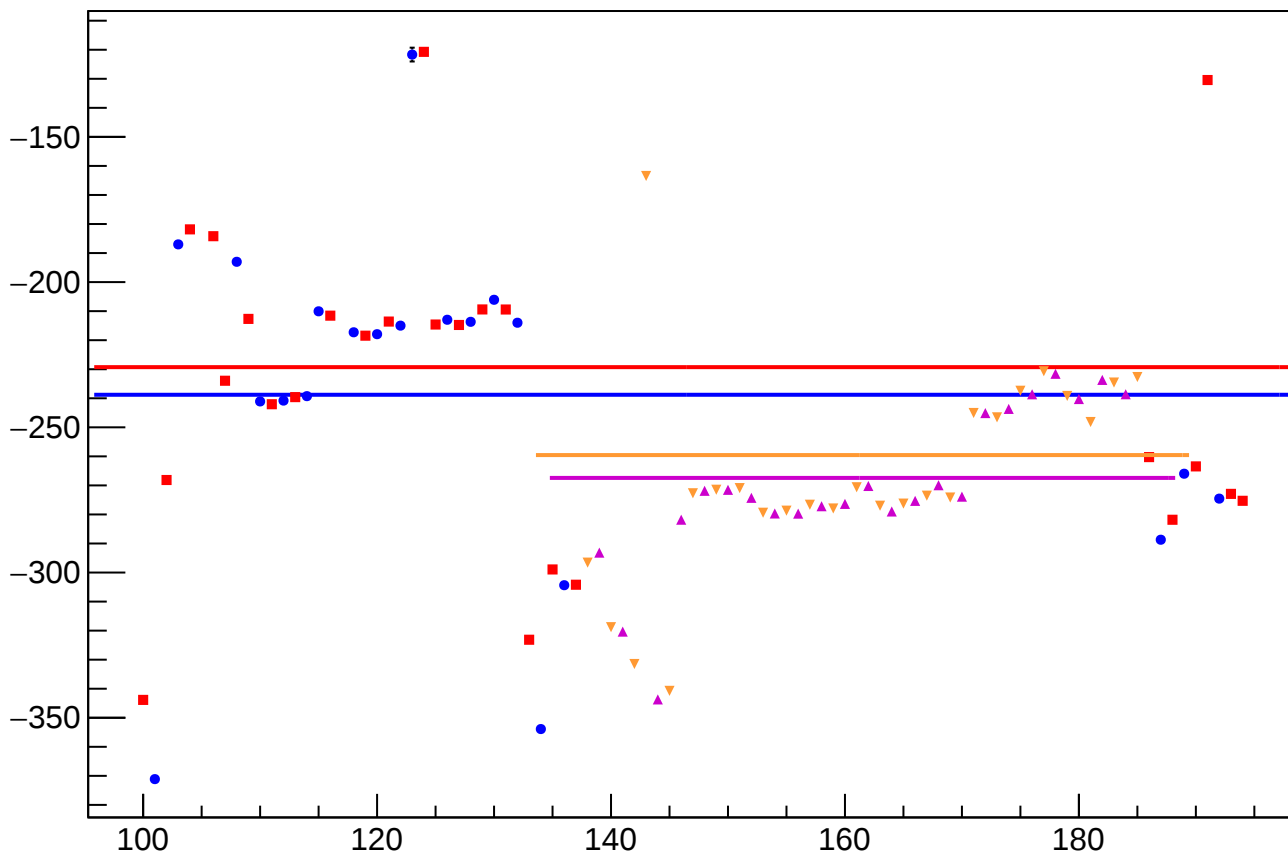
Right: 131.070 $\pm$ 1.780 χ^2 /NDF: 1589.2/44

In: 142.763 $\pm$ 1.453 χ^2 /NDF: 1212.3/42

Out: 131.169 $\pm$ 1.364 χ^2 /NDF: 1581.5/49

All: 136.601 $\pm$ 0.995 χ^2 /NDF: 2827.6/92

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -238.791 $\pm$ 0.141 χ^2/NDF : 152743.1/19

Left Out: -259.557 $\pm$ 0.079 χ^2/NDF :238235.2/24

Right Out: -229.281 $\pm$ 0.124 χ^2/NDF : 159756.8/24

Left In: -267.417 $\pm$ 0.082 χ^2/NDF :98035.5/22

Left: -263.361 $\pm$ 0.057 χ^2/NDF : 341051.4/47

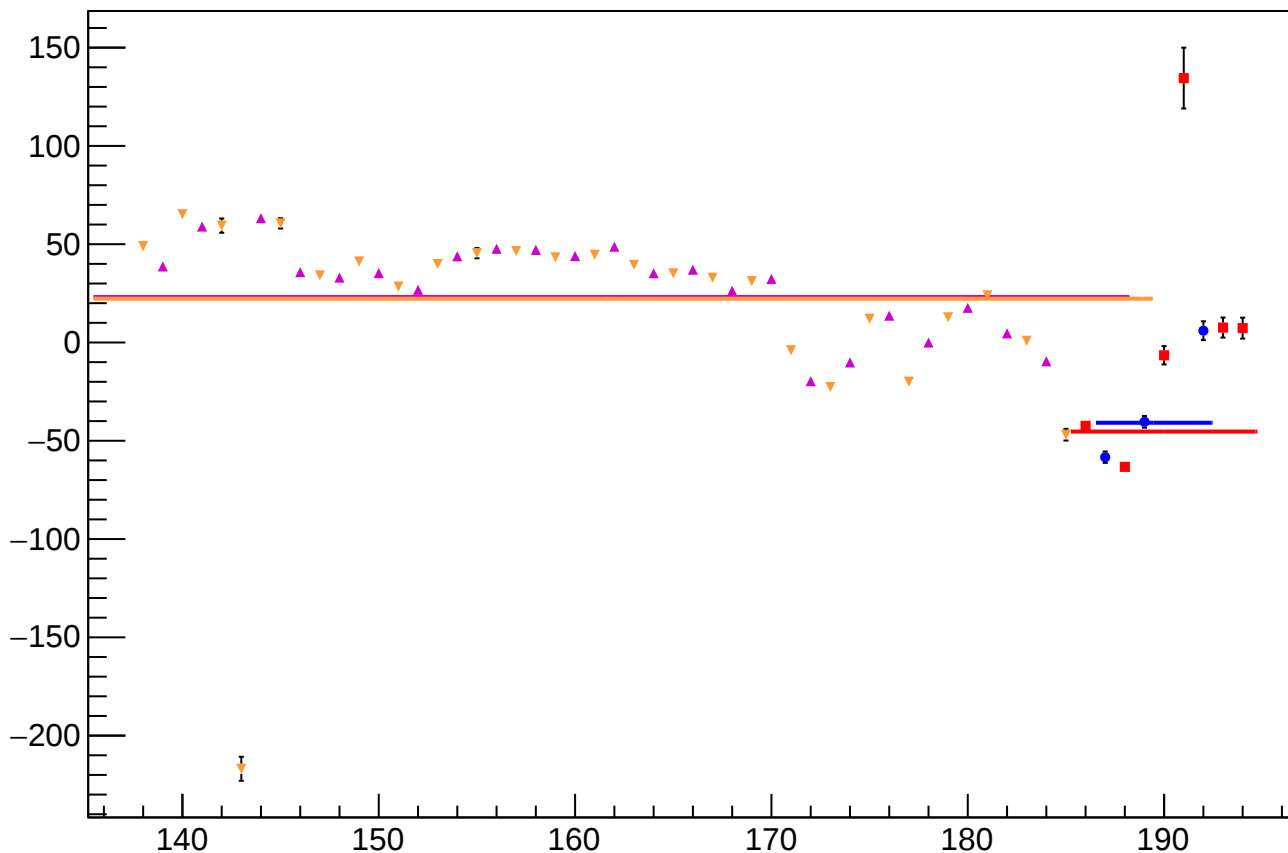
Right: -233.441 $\pm$ 0.093 χ^2/NDF : 315065.7/44

In: -260.212 $\pm$ 0.071 χ^2/NDF :281702.1/42

Out: -250.820 $\pm$ 0.067 χ^2/NDF :440279.9/49

All: -255.246 $\pm$ 0.049 χ^2/NDF : 731324.0/92

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -40.839 ± 1.897 $\chi^2/\text{NDF}: 132.4/2$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -45.313 ± 1.077 $\chi^2/\text{NDF}: 545.0/5$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

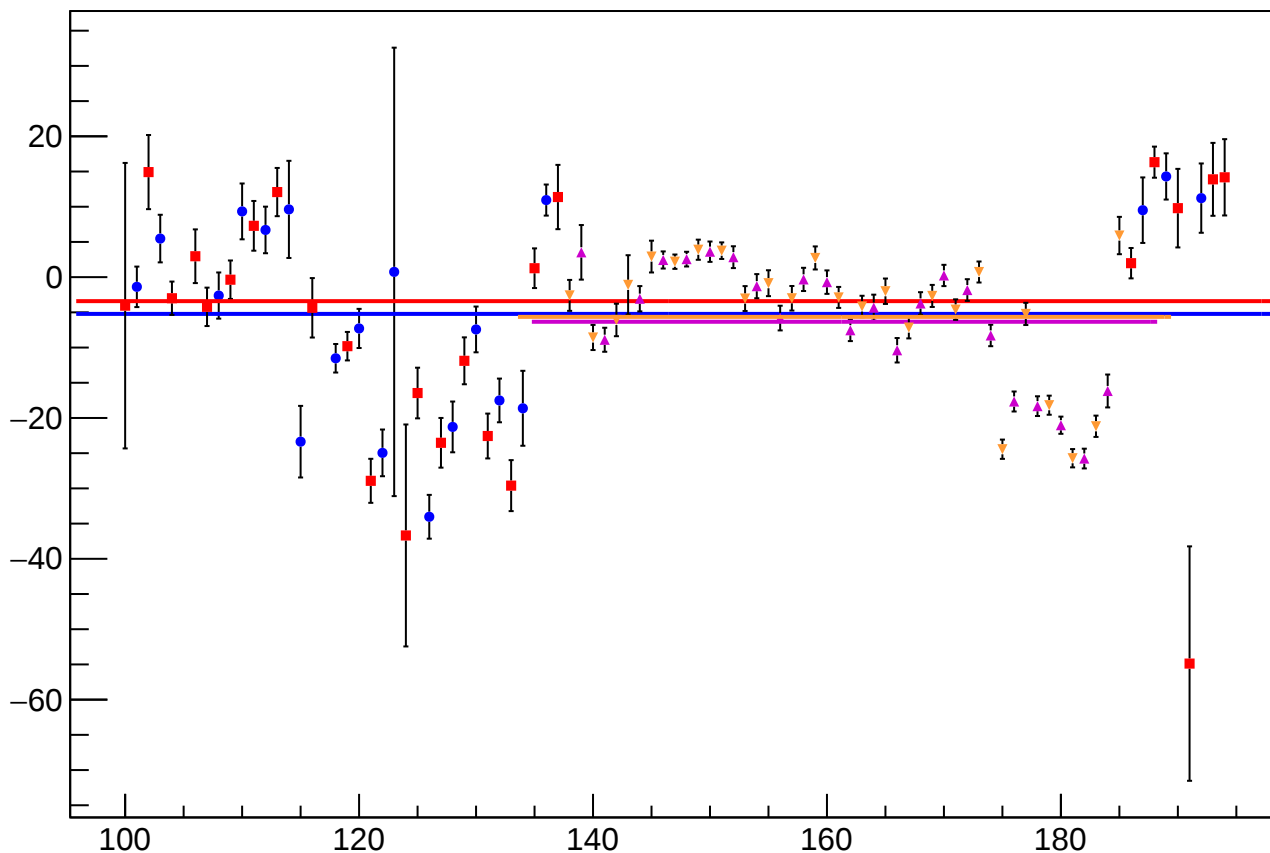
Right: -44.223 ± 0.936 $\chi^2/\text{NDF}: 681.6/8$

In: 20.394 ± 0.393 $\chi^2/\text{NDF}: 3965.8/25$

Out: 14.126 ± 0.374 $\chi^2/\text{NDF}: 9182.0/30$

All: 17.106 ± 0.271 $\chi^2/\text{NDF}: 13281.4/56$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.220 ± 0.749 χ^2/NDF : 340.3/19

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -3.408 ± 0.667 χ^2/NDF : 403.9/24

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

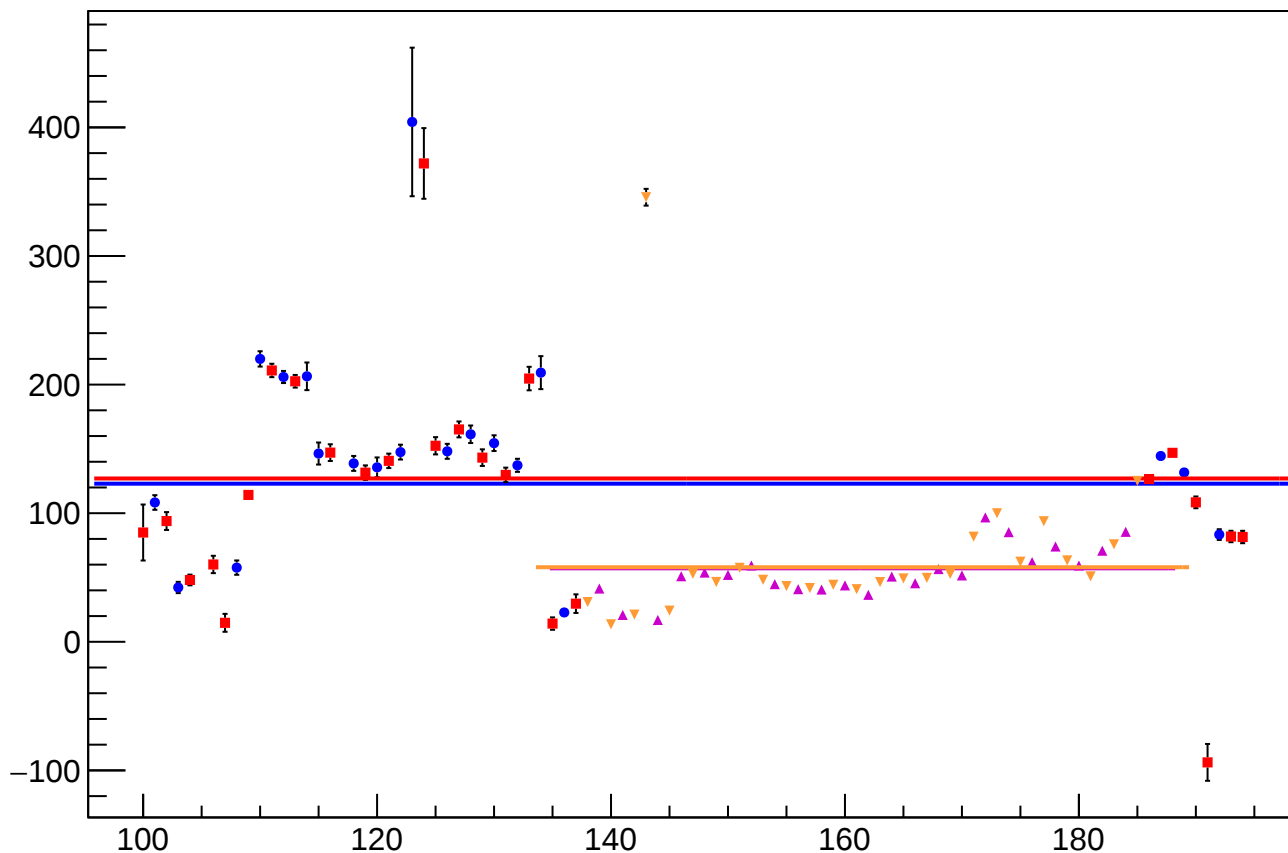
Right: -4.209 ± 0.498 χ^2/NDF : 747.5/44

In: -6.164 ± 0.295 χ^2/NDF : 1125.2/42

Out: -5.233 ± 0.285 χ^2/NDF : 1306.8/49

All: -5.682 ± 0.205 χ^2/NDF : 2437.2/92

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 122.950 $\pm$ 1.059 χ^2 /NDF: 2361.1/19

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 126.991 $\pm$ 0.740 χ^2 /NDF: 2905.1/24

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

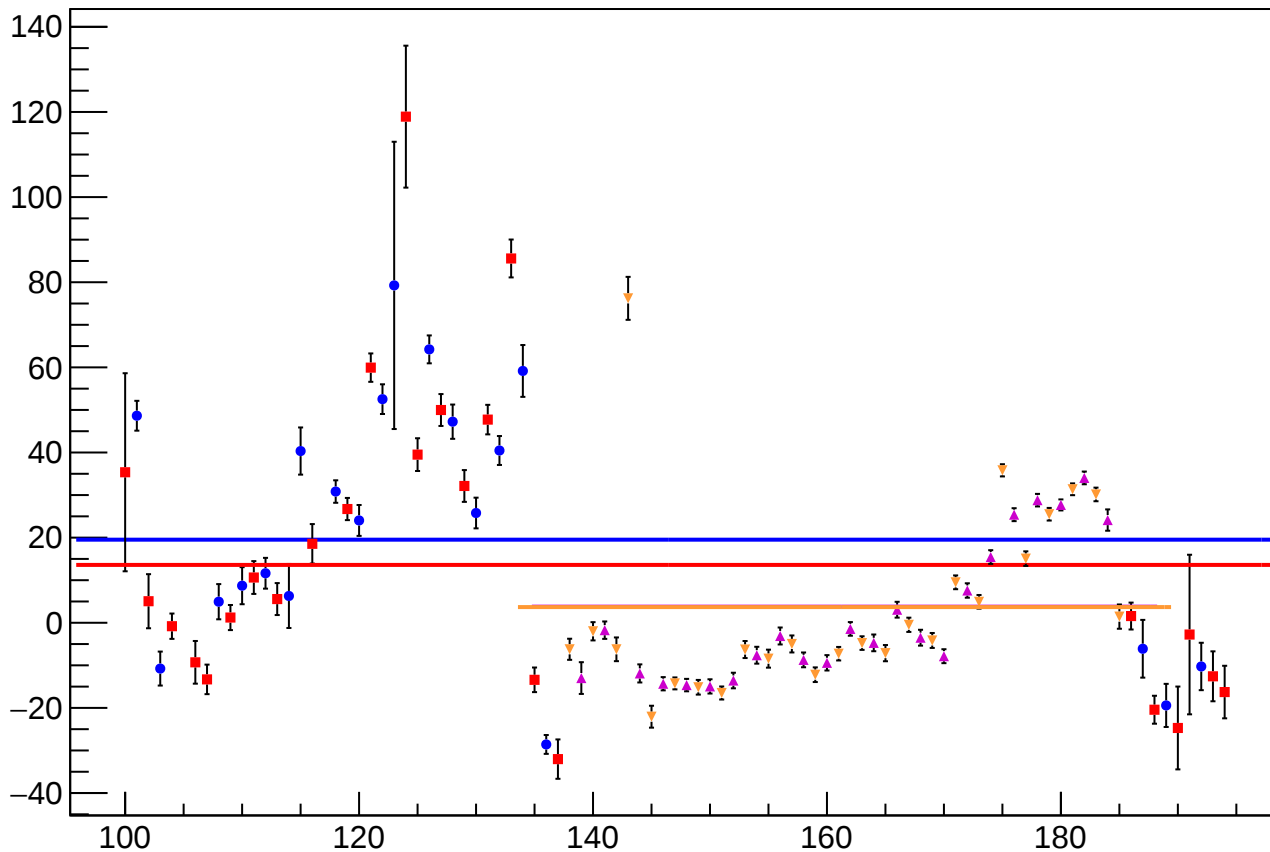
Right: 125.667 $\pm$ 0.606 χ^2 /NDF: 5276.0/44

In: 65.336 $\pm$ 0.374 χ^2 /NDF:7543.5/42

Out: 73.478 $\pm$ 0.350 χ^2 /NDF:14289.6/49

All: 69.670 $\pm$ 0.256 χ^2 /NDF: 22085.6/92

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.520 $\pm$ 0.868 χ^2/NDF : 1170.7/19

Left Out: 3.684 $\pm$ 0.357 χ^2/NDF : 2541.7/24

Right Out: 13.591 $\pm$ 0.797 χ^2/NDF : 1278.2/24

Left In: 3.786 $\pm$ 0.362 χ^2/NDF : 2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2/NDF : 4740.5/47

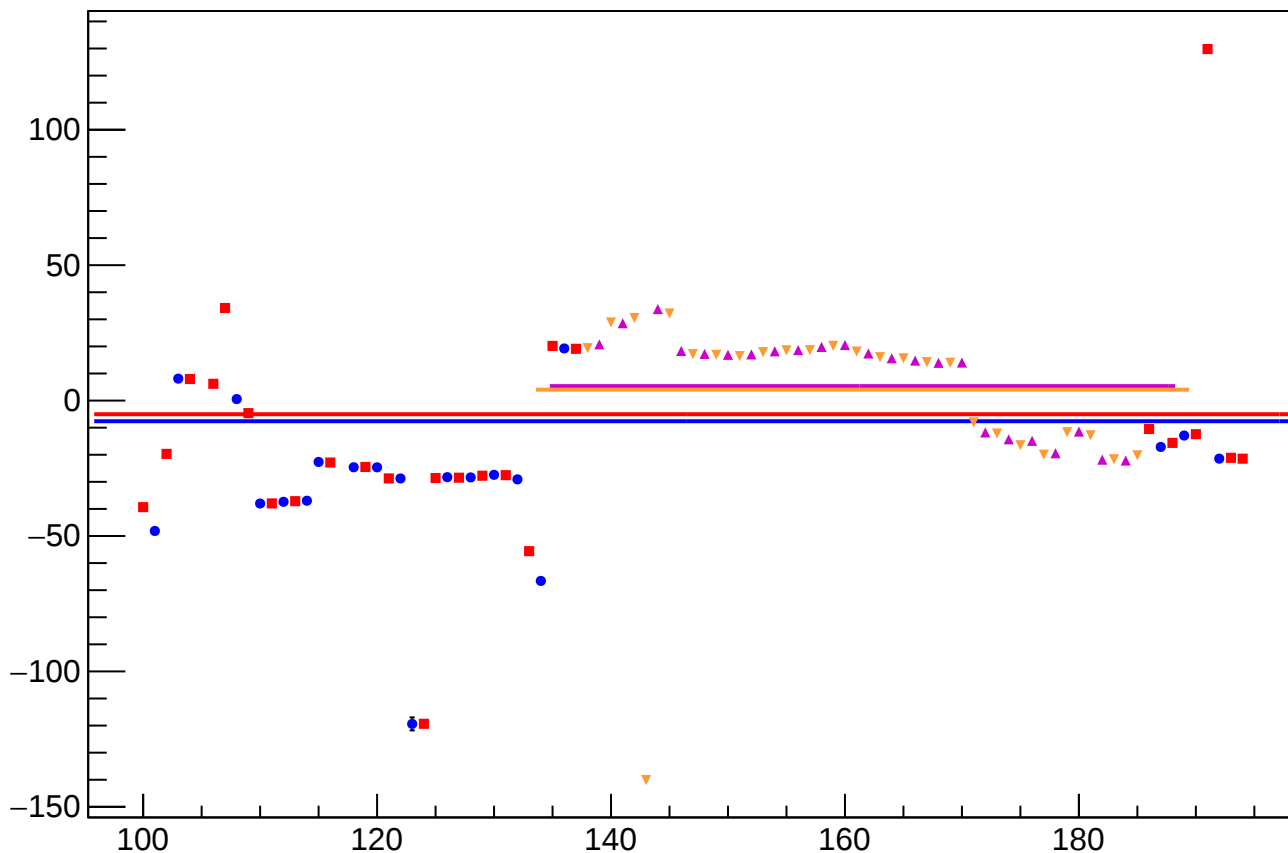
Right: 16.302 $\pm$ 0.587 χ^2/NDF : 2474.3/44

In: 6.114 $\pm$ 0.334 χ^2/NDF : 3649.4/42

Out: 5.339 $\pm$ 0.326 χ^2/NDF : 3948.7/49

All: 5.716 $\pm$ 0.233 χ^2/NDF : 7600.8/92

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -7.620 ± 0.044 $\chi^2/\text{NDF}: 272208.9/19$

Left Out: 4.026 ± 0.016 $\chi^2/\text{NDF}: 1383143.9/24$

Right Out: -5.034 ± 0.040 $\chi^2/\text{NDF}: 357740.5/24$

Left In: 5.335 ± 0.016 $\chi^2/\text{NDF}: 1077818.8/22$

Left: 4.678 ± 0.012 $\chi^2/\text{NDF}: 2464153.9/47$

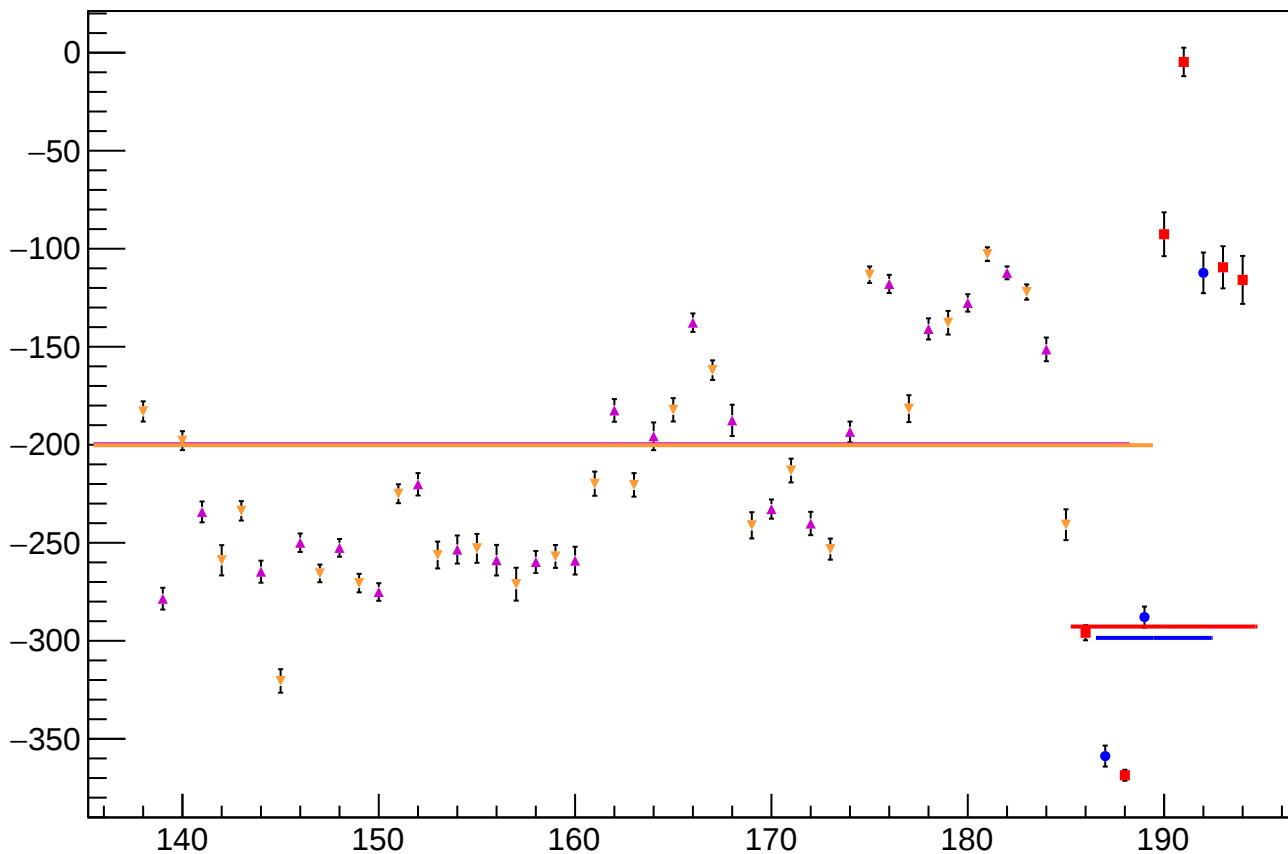
Right: -6.228 ± 0.030 $\chi^2/\text{NDF}: 631834.1/44$

In: 3.732 ± 0.015 $\chi^2/\text{NDF}: 1427023.5/42$

Out: 2.754 ± 0.015 $\chi^2/\text{NDF}: 1783913.6/49$

All: 3.236 ± 0.011 $\chi^2/\text{NDF}: 3212988.6/92$

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -298.506 ± 3.556 $\chi^2/\text{NDF}: 453.0/2$

Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$

Right Out: -292.731 ± 2.059 $\chi^2/\text{NDF}: 3114.1/5$

Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

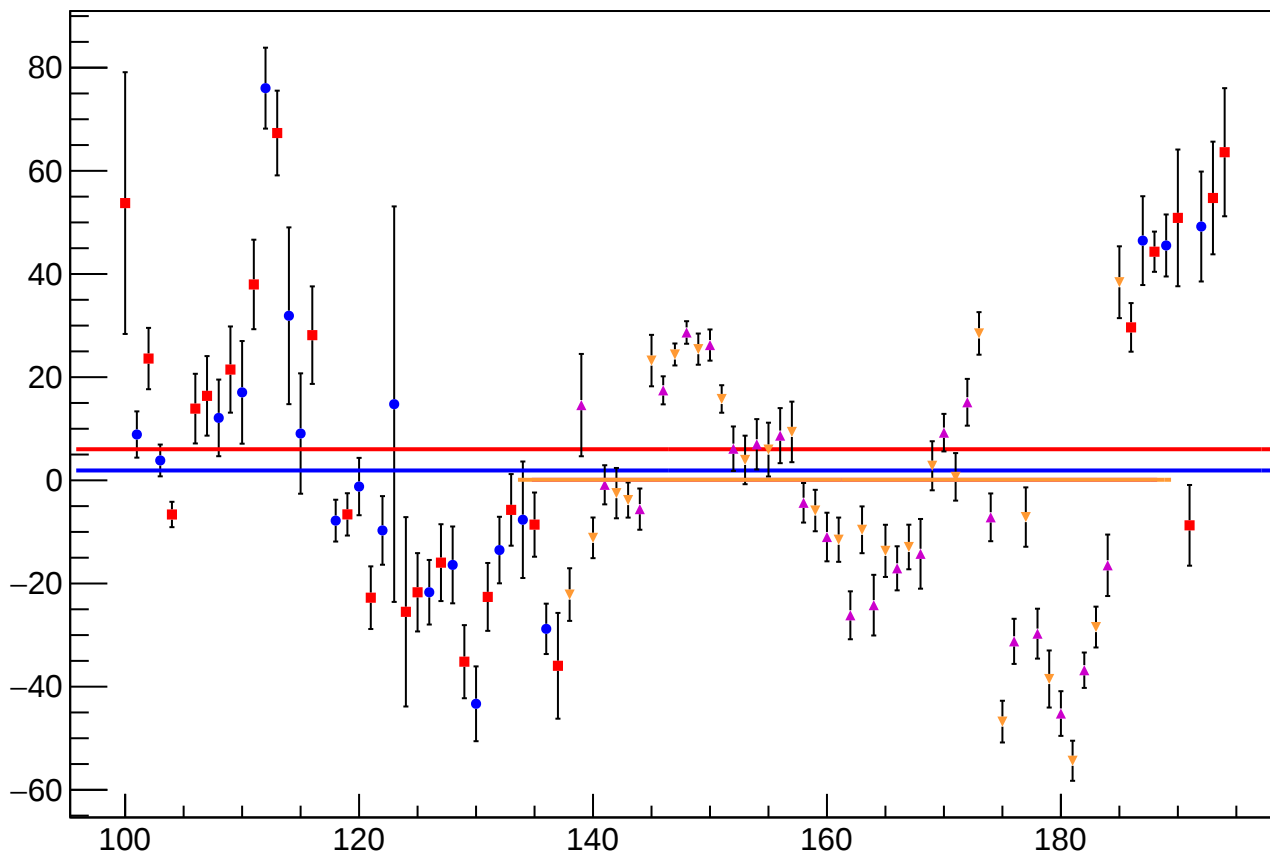
Right: -294.181 ± 1.782 $\chi^2/\text{NDF}: 3569.0/8$

In: -208.328 ± 1.049 $\chi^2/\text{NDF}: 4125.4/25$

Out: -220.128 ± 0.955 $\chi^2/\text{NDF}: 7923.6/30$

All: -214.779 ± 0.706 $\chi^2/\text{NDF}: 12118.3/56$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.912 ± 1.396 χ^2/NDF : 313.3/19

Left Out: 0.109 ± 0.807 χ^2/NDF : 831.2/24

Right Out: 6.028 ± 1.231 χ^2/NDF : 432.9/24

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

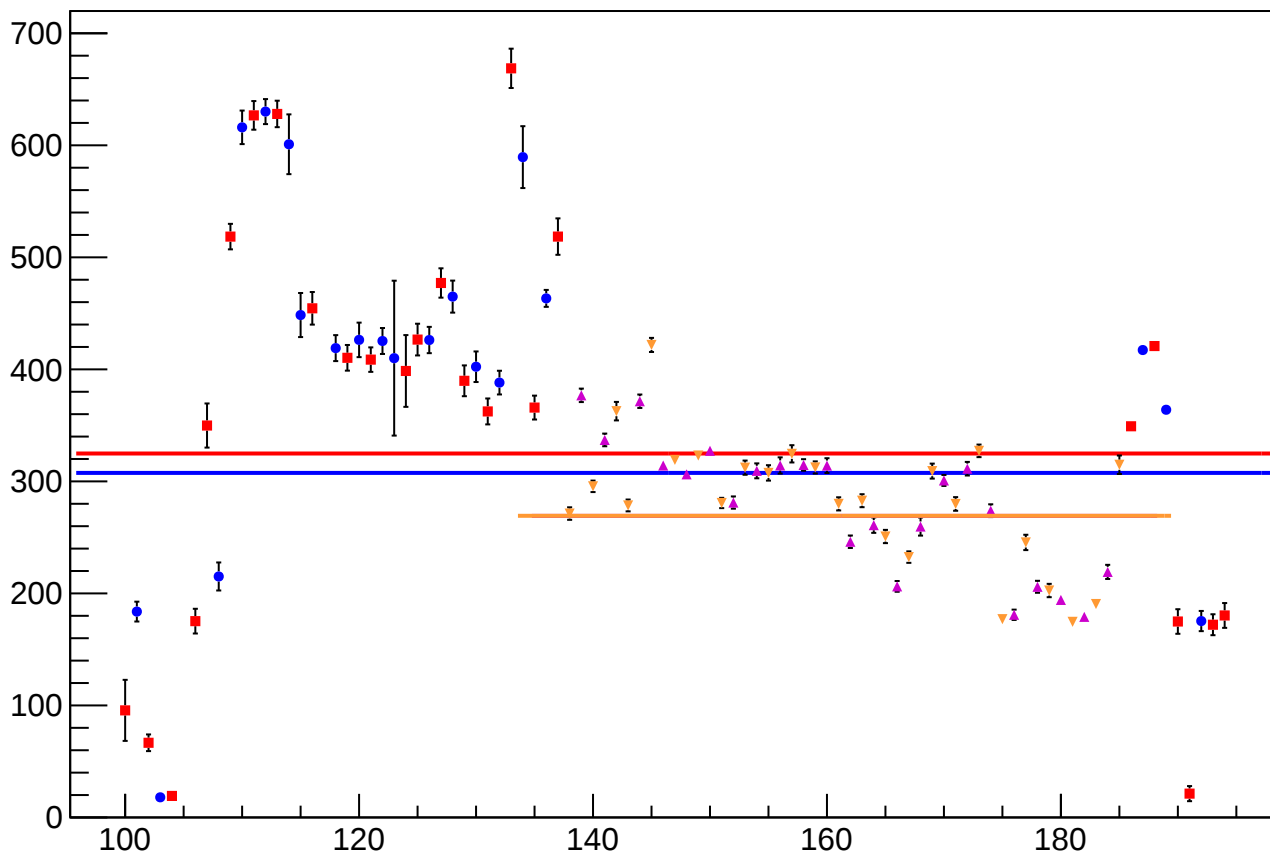
Right: 4.227 ± 0.923 χ^2/NDF : 751.0/44

In: 0.578 ± 0.718 χ^2/NDF : 1030.0/42

Out: 1.888 ± 0.675 χ^2/NDF : 1280.3/49

All: 1.274 ± 0.492 χ^2/NDF : 2312.0/92

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 307.568 $\pm$ 1.905 χ^2 /NDF: 8904.9/19

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 324.888 $\pm$ 1.391 χ^2 /NDF: 13388.7/24

Left In: 269.191 $\pm$ 1.091 χ^2 /NDF:3170.2/22

Left: 269.235 $\pm$ 0.767 χ^2 /NDF: 6316.9/47

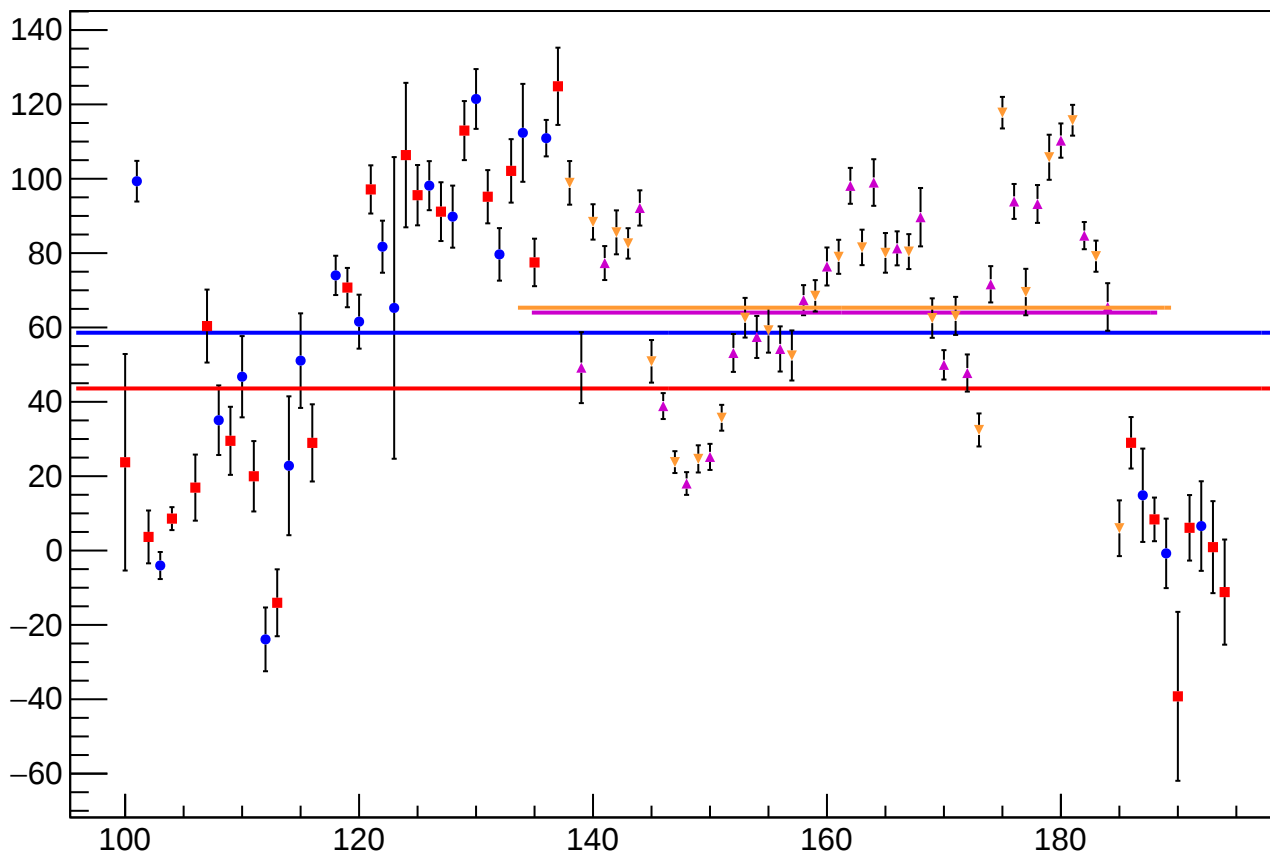
Right: 318.866 $\pm$ 1.123 χ^2 /NDF: 22347.5/44

In: 278.665 $\pm$ 0.946 χ^2 /NDF:12380.8/42

Out: 290.142 $\pm$ 0.852 χ^2 /NDF:17534.5/49

All: 285.006 $\pm$ 0.633 χ^2 /NDF: 29996.6/92

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 58.586 $\pm$ 1.639 χ^2 /NDF: 797.0/19

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 43.594 $\pm$ 1.497 χ^2 /NDF: 769.7/24

Left In: 63.999 $\pm$ 0.963 χ^2 /NDF:799.5/22

Left: 64.681 $\pm$ 0.671 χ^2 /NDF: 1807.5/47

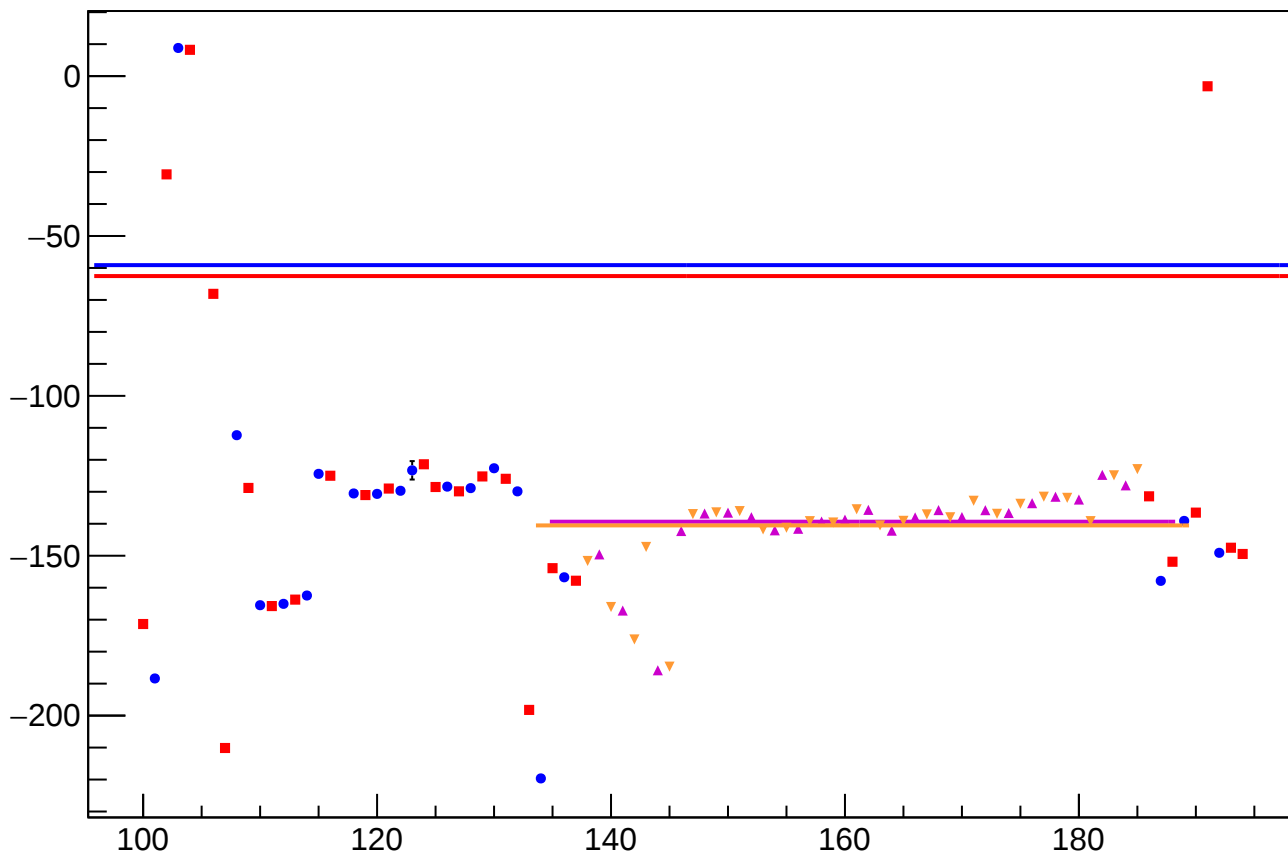
Right: 50.411 $\pm$ 1.105 χ^2 /NDF: 1612.3/44

In: 62.611 $\pm$ 0.830 χ^2 /NDF:1604.5/42

Out: 59.228 $\pm$ 0.793 χ^2 /NDF:1928.5/49

All: 60.842 $\pm$ 0.573 χ^2 /NDF: 3541.6/92

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -59.113 ± 0.068 $\chi^2/\text{NDF}: 1336604.7/19$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -62.535 ± 0.065 $\chi^2/\text{NDF}: 1240604.3/24$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

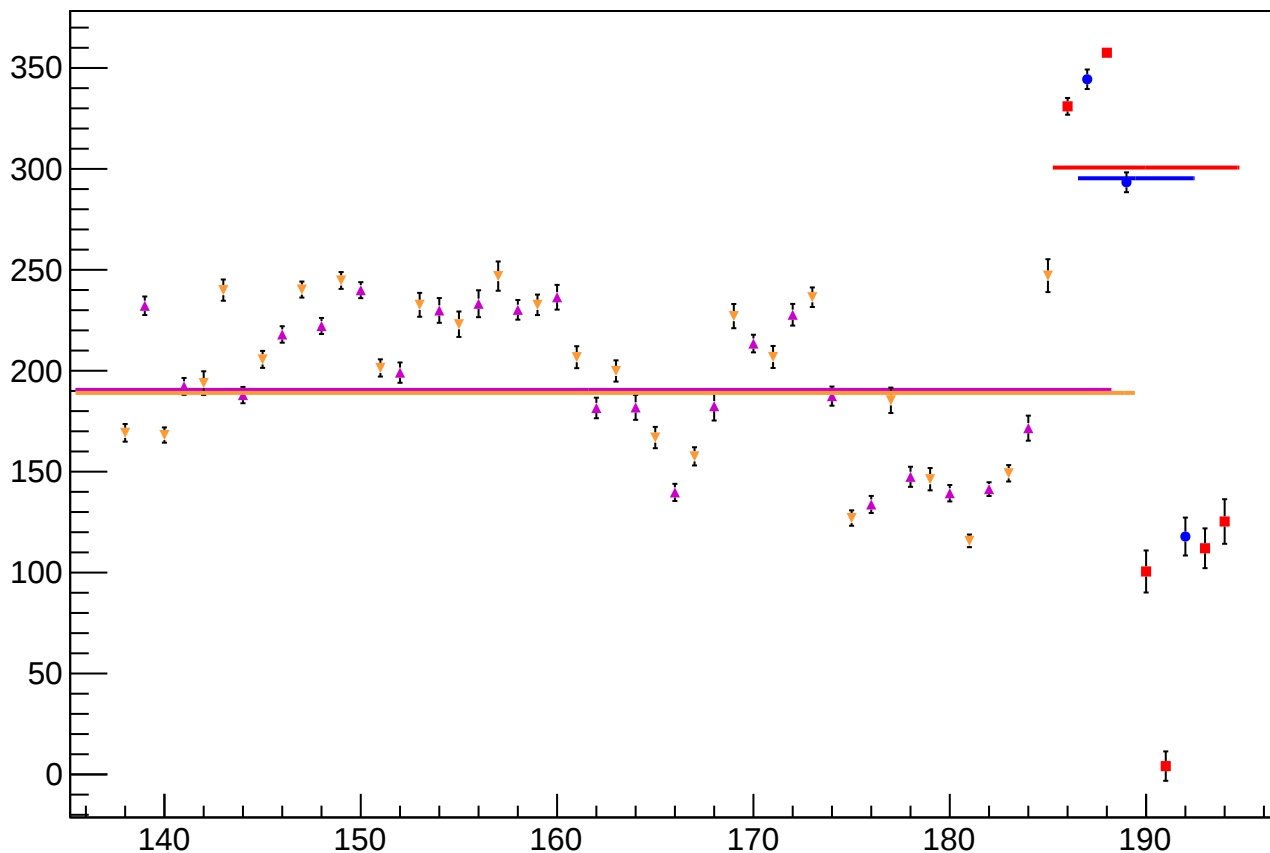
Right: -60.914 ± 0.047 $\chi^2/\text{NDF}: 2578534.4/44$

In: -115.003 ± 0.038 $\chi^2/\text{NDF}: 2363873.2/42$

Out: -115.434 ± 0.037 $\chi^2/\text{NDF}: 2303593.0/49$

All: -115.223 ± 0.026 $\chi^2/\text{NDF}: 4667533.8/92$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 295.359 $\pm$ 3.237 χ^2 /NDF: 459.9/2

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 300.669 $\pm$ 1.947 χ^2 /NDF: 3216.2/5

Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47

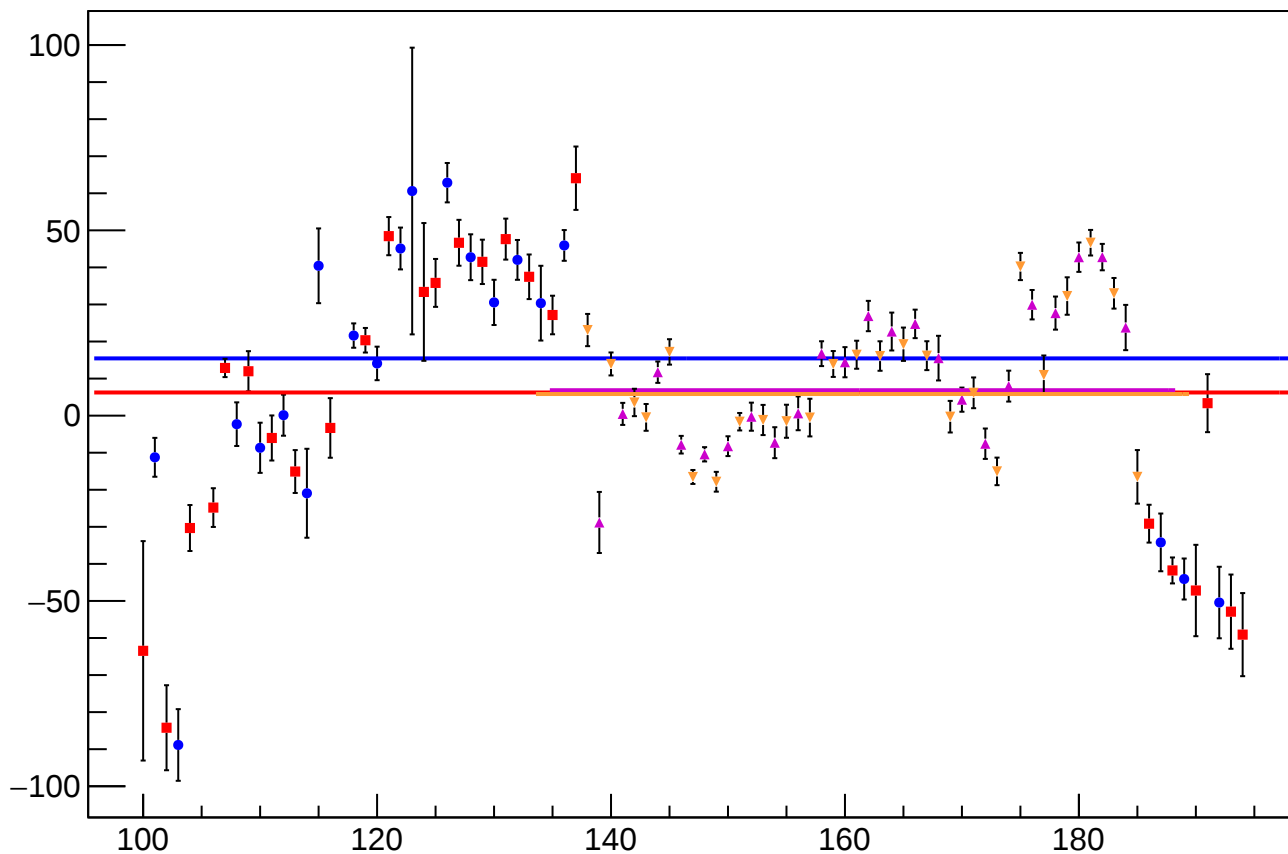
Right: 299.258 $\pm$ 1.668 χ^2 /NDF: 3678.1/8

In: 199.228 $\pm$ 0.934 χ^2 /NDF:2834.5/25

Out: 210.714 $\pm$ 0.858 χ^2 /NDF:7846.6/30

All: 205.455 $\pm$ 0.632 χ^2 /NDF: 10763.1/56

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.448 $\pm$ 1.323 χ^2 /NDF: 608.6/19

Left Out: 5.834 $\pm$ 0.712 χ^2 /NDF:652.2/24

Right Out: 6.250 $\pm$ 1.102 χ^2 /NDF: 819.5/24

Left In: 6.862 $\pm$ 0.736 χ^2 /NDF:522.7/22

Left: 6.331 $\pm$ 0.512 χ^2 /NDF: 1176.0/47

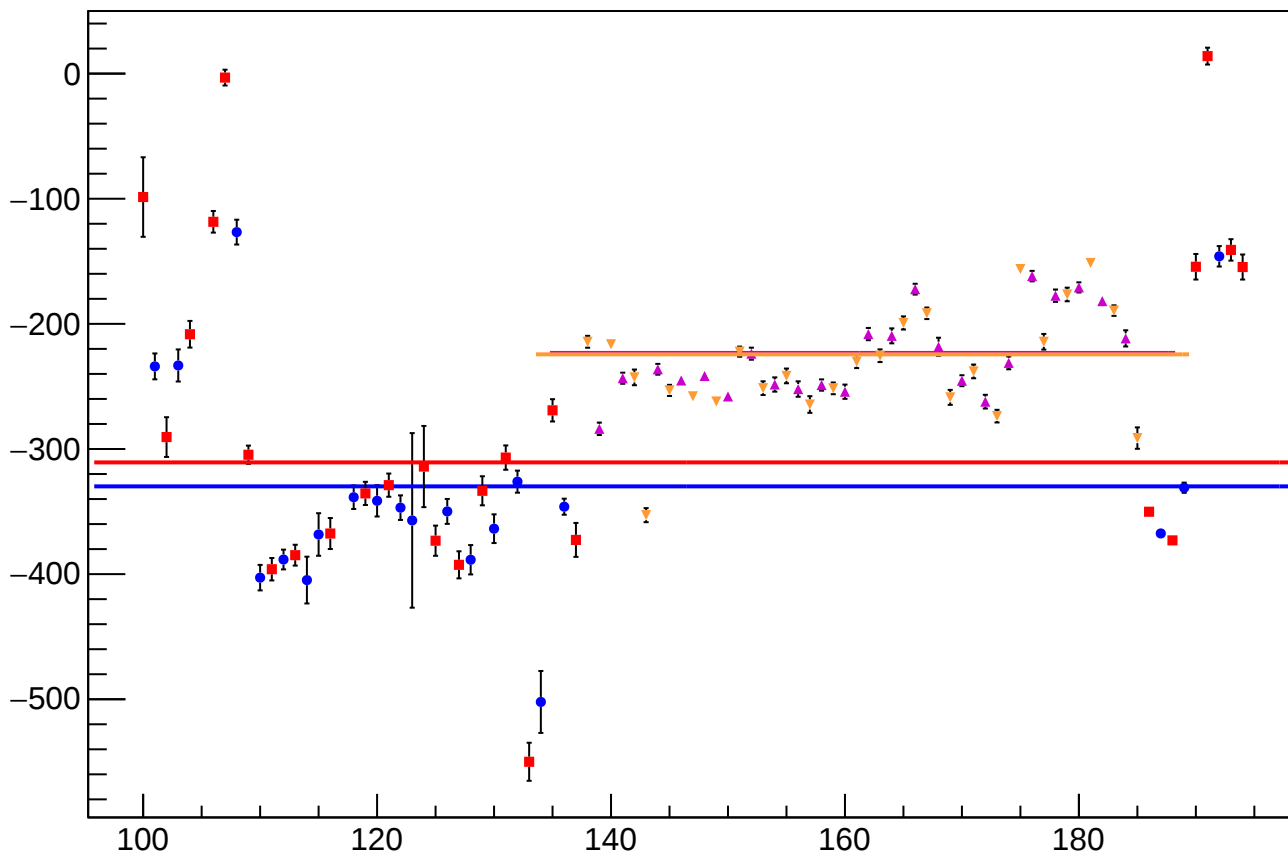
Right: 10.019 $\pm$ 0.847 χ^2 /NDF: 1456.7/44

In: 8.893 $\pm$ 0.643 χ^2 /NDF:1163.5/42

Out: 5.957 $\pm$ 0.598 χ^2 /NDF:1471.9/49

All: 7.318 $\pm$ 0.438 χ^2 /NDF: 2646.6/92

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -329.869+/-1.863 χ^2/NDF : 1382.8/19

Left Out: -224.364+/-0.956 χ^2/NDF :2103.2/24

Right Out: -310.709+/-1.315 χ^2/NDF : 7877.5/24

Left In: -223.223+/-0.969 χ^2/NDF :1269.3/22

Left: -223.801+/-0.681 χ^2/NDF : 3373.2/47

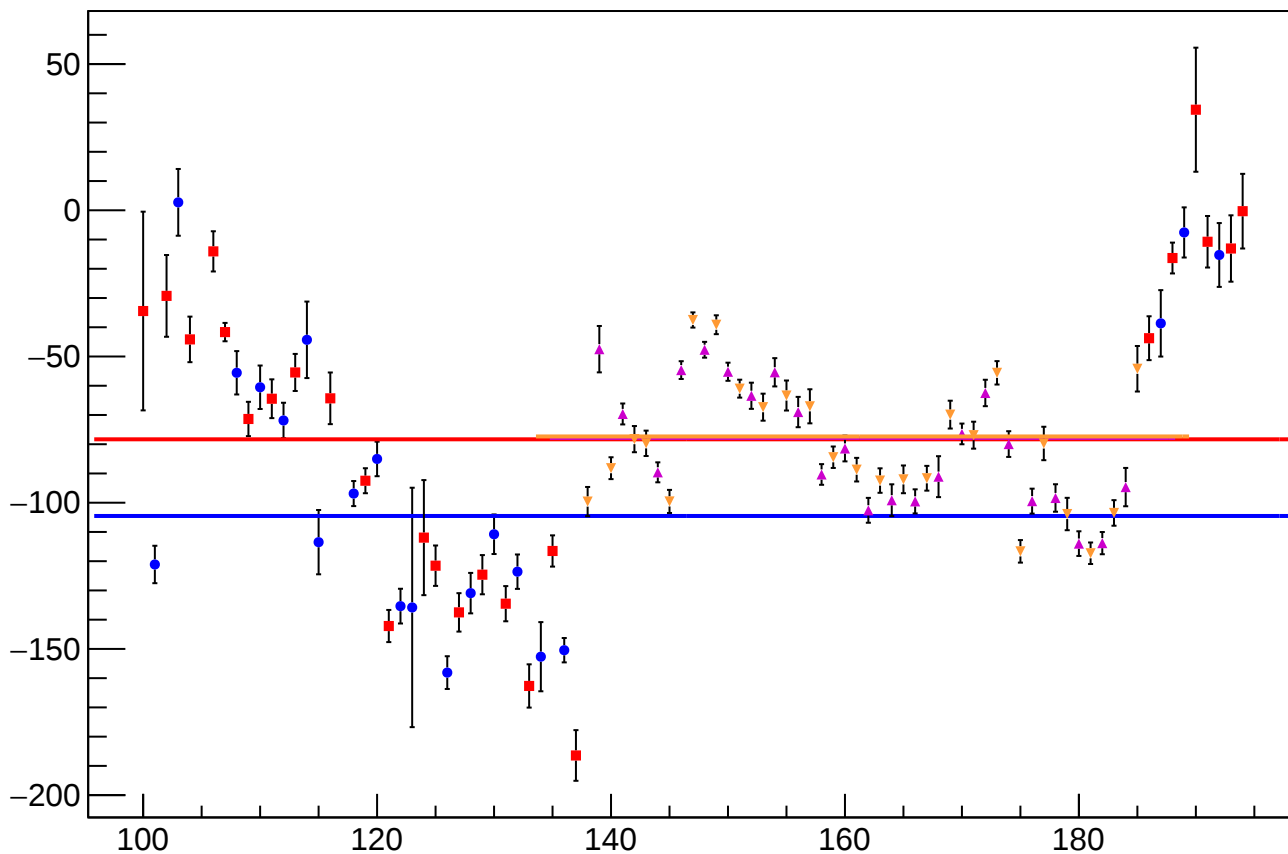
Right: -317.083+/-1.074 χ^2/NDF : 9330.9/44

In: -245.941+/-0.860 χ^2/NDF :5231.4/42

Out: -254.210+/-0.773 χ^2/NDF :12800.3/49

All: -250.512+/-0.575 χ^2/NDF : 18082.9/92

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -104.536 ± 1.543 χ^2/NDF : 750.0/19

Left Out: -77.343 ± 0.827 χ^2/NDF : 846.2/24

Right Out: -78.321 ± 1.326 χ^2/NDF : 1336.2/24

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

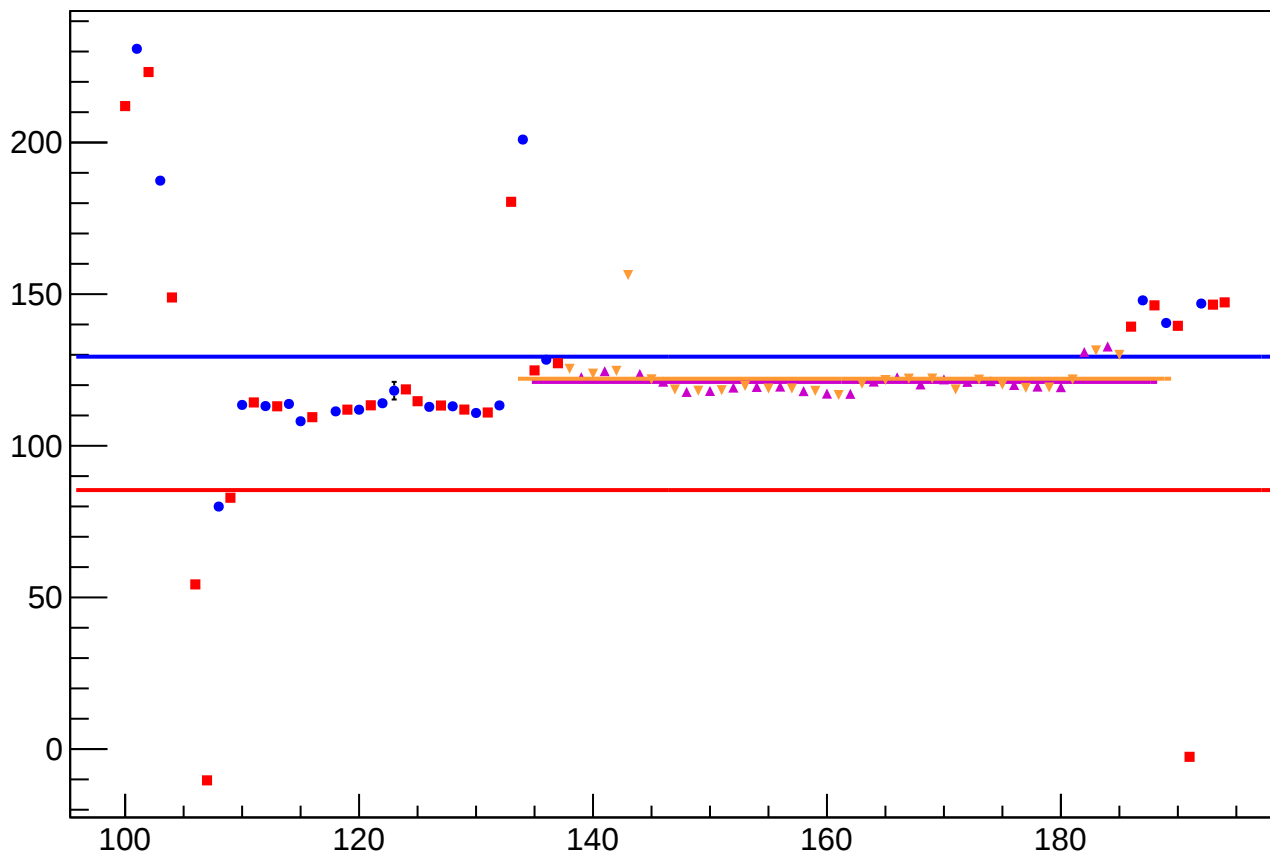
Right: -89.459 ± 1.006 χ^2/NDF : 2252.1/44

In: -84.039 ± 0.744 χ^2/NDF : 1602.6/42

Out: -77.617 ± 0.702 χ^2/NDF : 2182.8/49

All: -80.641 ± 0.510 χ^2/NDF : 3824.8/92

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 129.383+/-0.084 χ^2/NDF : 192326.7/19

Left Out: 122.119+/-0.039 χ^2/NDF :30480.7/24

Right Out: 85.396+/-0.066 χ^2/NDF : 1019611.1/24

Left In: 121.055+/-0.040 χ^2/NDF :7931.6/22

Left: 121.591+/-0.028 χ^2/NDF : 38773.7/47

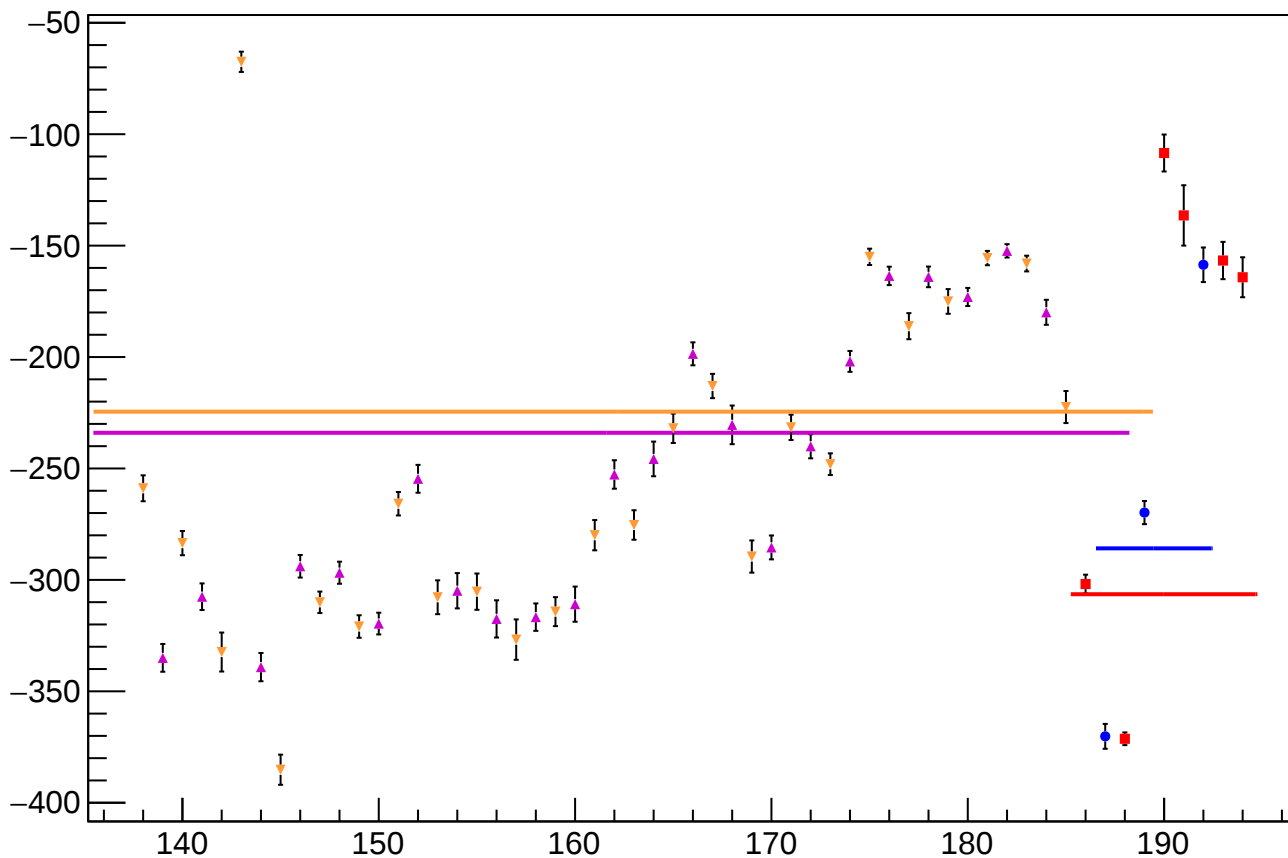
Right: 102.275+/-0.052 χ^2/NDF : 1380016.0/44

In: 122.571+/-0.036 χ^2/NDF :208254.4/42

Out: 112.565+/-0.034 χ^2/NDF :1275955.8/49

All: 117.277+/-0.025 χ^2/NDF : 1525230.7/92

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -285.850+/-3.416 χ^2/NDF : 506.4/2

Left Out: -224.501+/-1.079 χ^2/NDF : 4870.6/24

Right Out: -306.433+/-2.102 χ^2/NDF : 1818.2/5

Left In: -233.988+/-1.109 χ^2/NDF : 3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

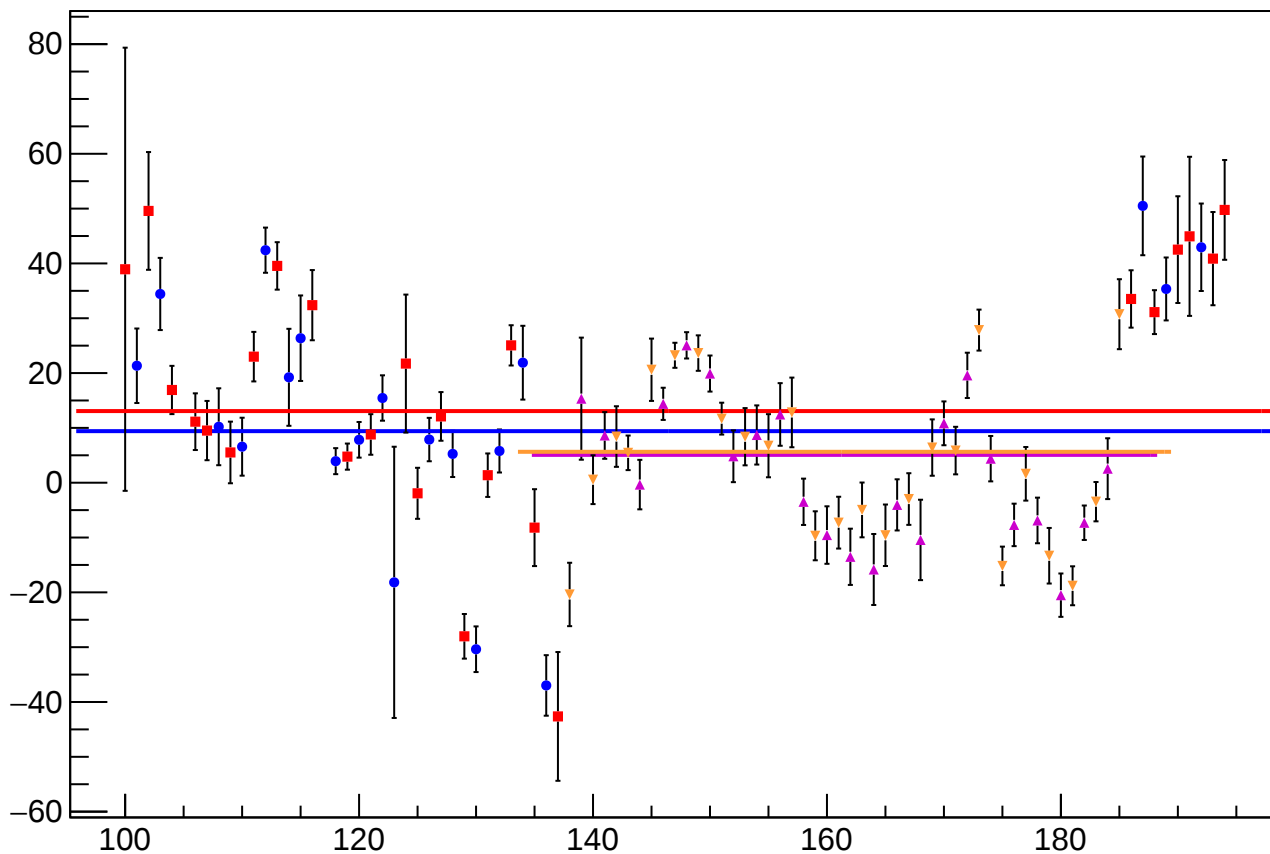
Right: -300.779+/-1.791 χ^2/NDF : 2350.9/8

In: -238.928+/-1.054 χ^2/NDF : 4253.3/25

Out: -241.583+/-0.960 χ^2/NDF : 7890.7/30

All: -240.380+/-0.710 χ^2/NDF : 12147.5/56

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.406 $\pm$ 1.068 χ^2 /NDF: 323.1/19

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 13.067 $\pm$ 0.995 χ^2 /NDF: 320.3/24

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

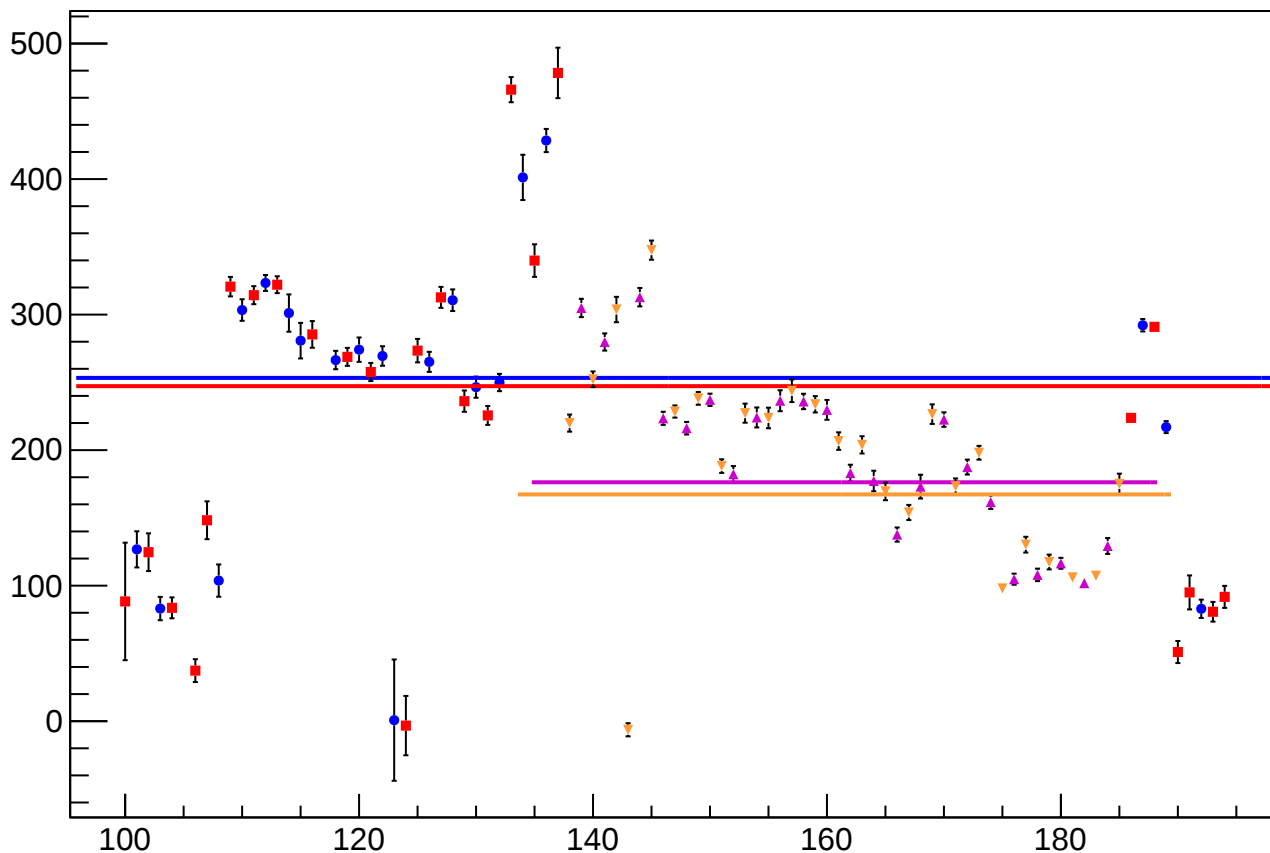
Right: 11.364 $\pm$ 0.728 χ^2 /NDF: 649.7/44

In: 6.802 $\pm$ 0.674 χ^2 /NDF:572.7/42

Out: 8.675 $\pm$ 0.637 χ^2 /NDF:666.9/49

All: 7.792 $\pm$ 0.463 χ^2 /NDF: 1243.6/92

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 253.307 $\pm$ 1.694 χ^2 /NDF: 2212.9/19

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 247.202 $\pm$ 1.304 χ^2 /NDF: 4607.9/24

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

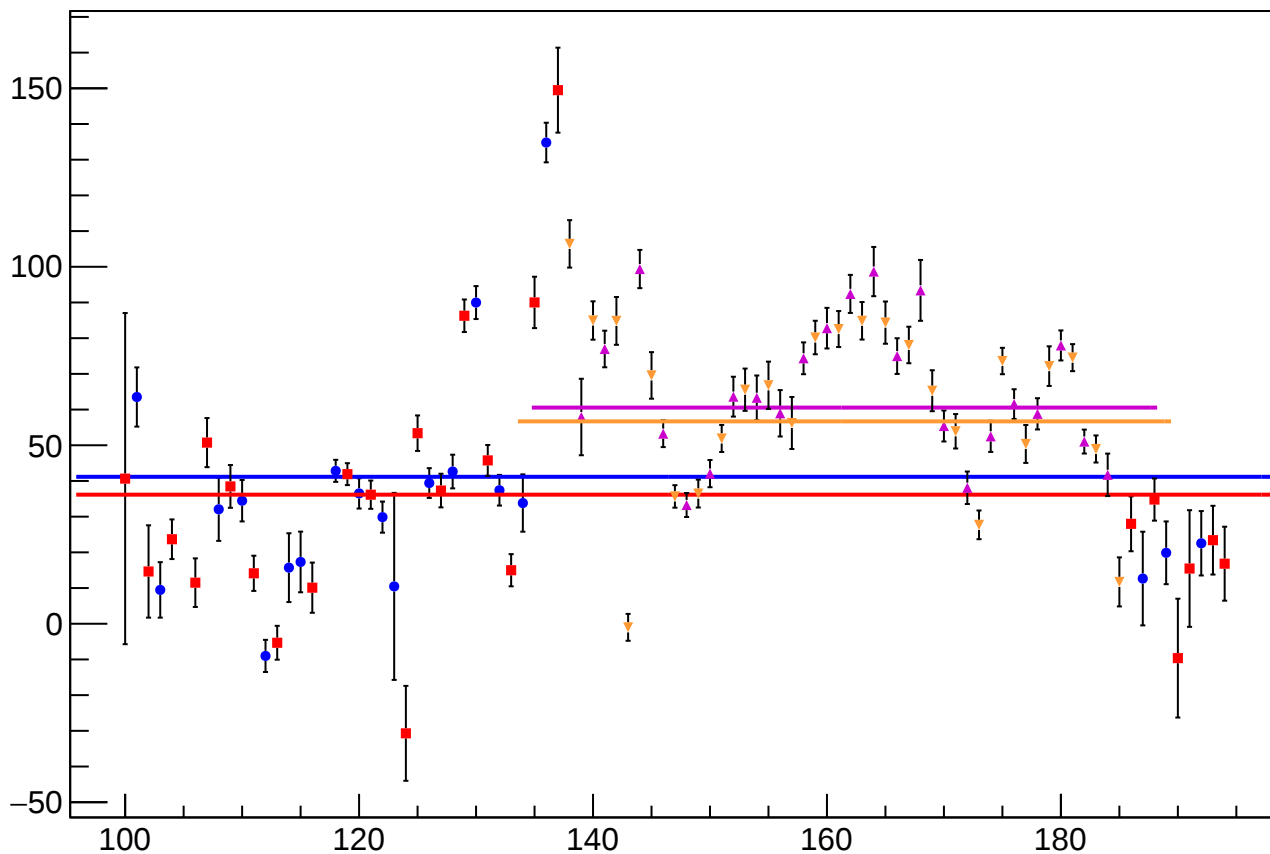
Right: 249.474 $\pm$ 1.034 χ^2 /NDF: 6828.9/44

In: 199.285 $\pm$ 0.926 χ^2 /NDF:6832.5/42

Out: 199.903 $\pm$ 0.833 χ^2 /NDF:11282.8/49

All: 199.627 $\pm$ 0.619 χ^2 /NDF: 18115.6/92

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.164 $\pm$ 1.245 χ^2 /NDF: 588.7/19

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF: 690.4/24

Right Out: 36.159 $\pm$ 1.173 χ^2 /NDF: 487.0/24

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF: 335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

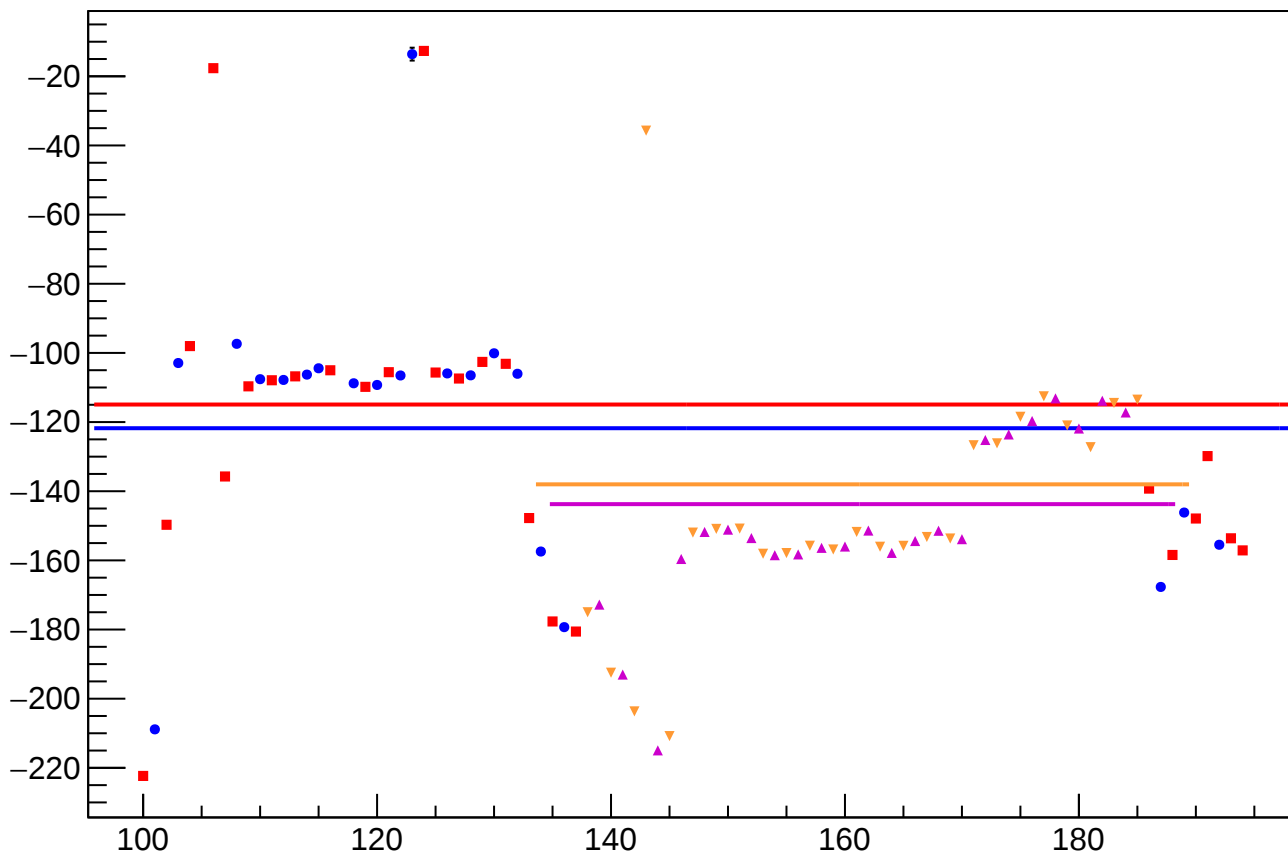
Right: 38.512 $\pm$ 0.854 χ^2 /NDF: 1084.2/44

In: 53.046 $\pm$ 0.775 χ^2 /NDF: 1072.8/42

Out: 48.544 $\pm$ 0.739 χ^2 /NDF: 1362.2/49

All: 50.688 $\pm$ 0.535 χ^2 /NDF: 2452.7/92

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -121.776 ± 0.074 $\chi^2/\text{NDF}: 166489.1/19$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -114.926 ± 0.065 $\chi^2/\text{NDF}: 405847.6/24$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

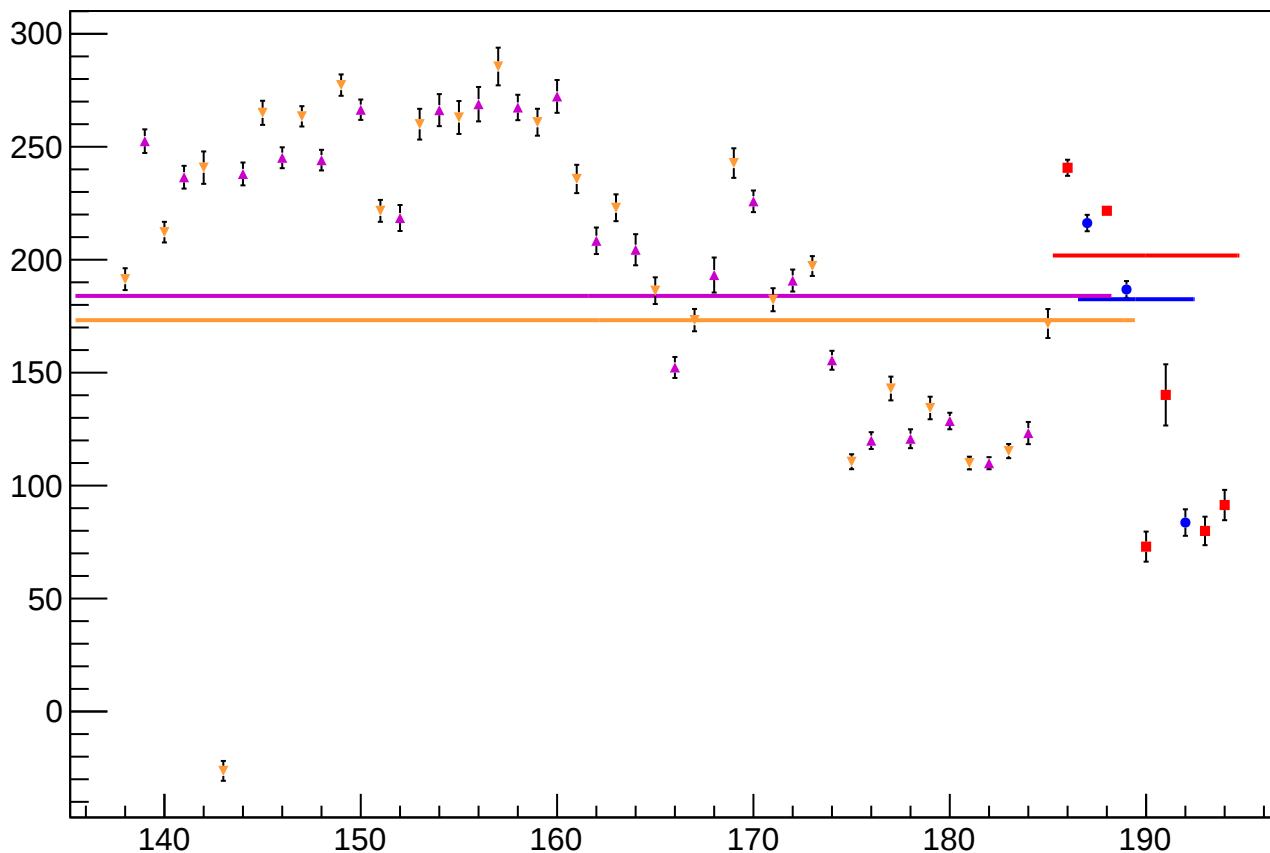
Right: -117.923 ± 0.049 $\chi^2/\text{NDF}: 577156.8/44$

In: -137.595 ± 0.039 $\chi^2/\text{NDF}: 488341.9/42$

Out: -130.541 ± 0.037 $\chi^2/\text{NDF}: 1056248.2/49$

All: -133.882 ± 0.027 $\chi^2/\text{NDF}: 1561699.2/92$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 182.510 $\pm$ 2.376 χ^2 /NDF: 371.5/2

Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24

Right Out: 201.869 $\pm$ 1.504 χ^2 /NDF: 1272.4/5

Left In: 183.984 $\pm$ 0.991 χ^2 /NDF:3613.7/22

Left: 178.467 $\pm$ 0.692 χ^2 /NDF: 9520.1/47

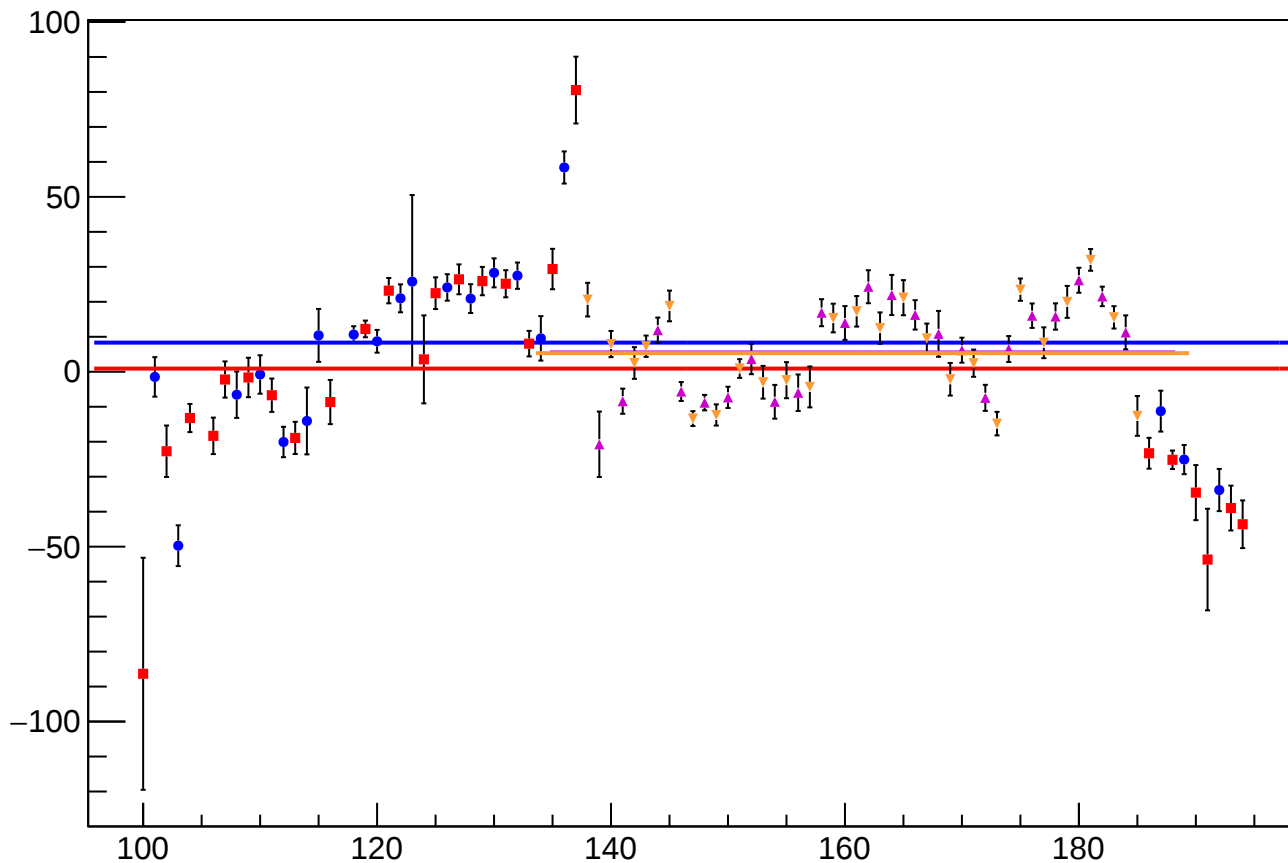
Right: 196.333 $\pm$ 1.271 χ^2 /NDF: 1691.4/8

In: 183.766 $\pm$ 0.915 χ^2 /NDF:3985.5/25

Out: 181.590 $\pm$ 0.813 χ^2 /NDF:7375.2/30

All: 182.550 $\pm$ 0.607 χ^2 /NDF: 11363.9/56

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.335 ± 1.011 χ^2/NDF : 488.8/19

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: 0.915 ± 0.924 χ^2/NDF : 604.4/24

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

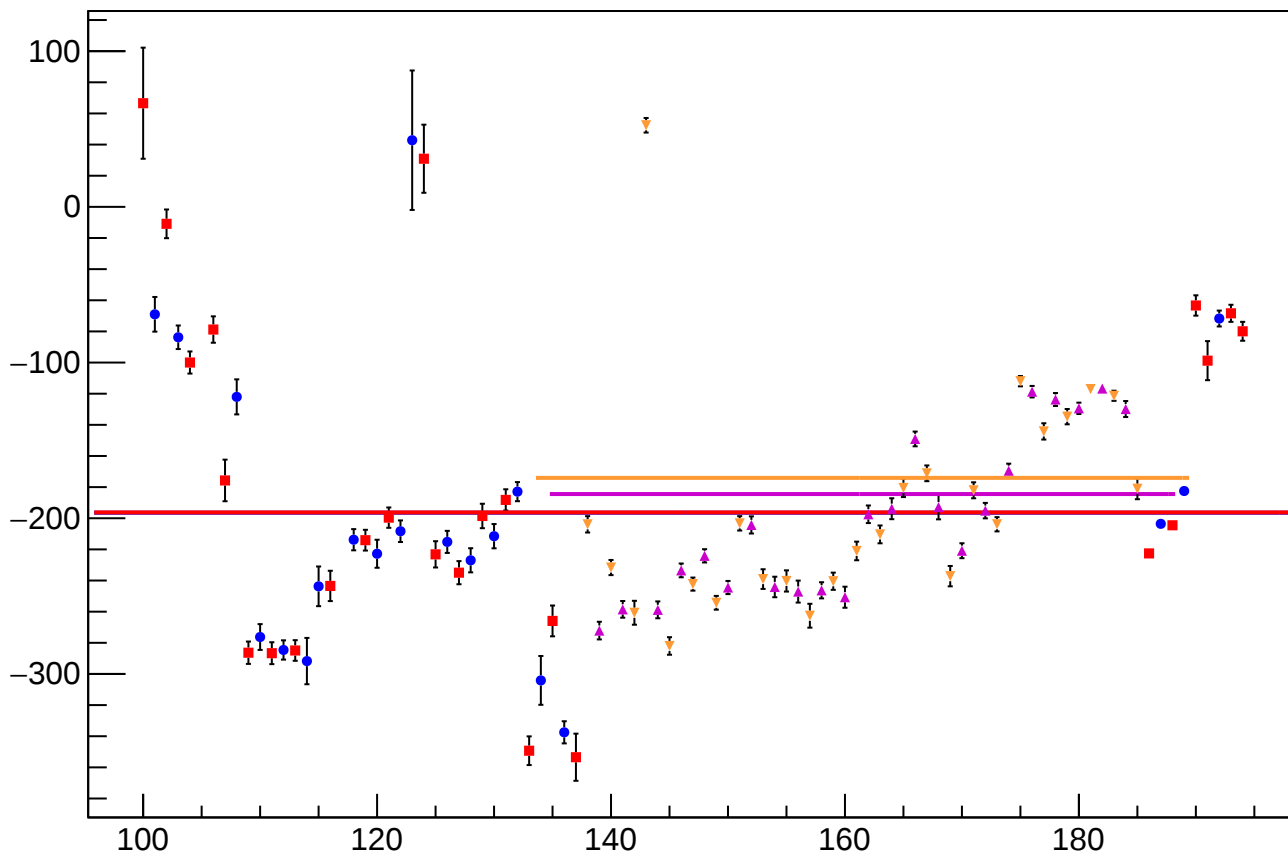
Right: 4.293 ± 0.682 χ^2/NDF : 1122.6/44

In: 6.576 ± 0.618 χ^2/NDF : 749.9/42

Out: 3.580 ± 0.581 χ^2/NDF : 963.7/49

All: 4.986 ± 0.423 χ^2/NDF : 1726.1/92

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -196.444 ± 1.417 χ^2/NDF : 1888.8/19

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -196.251 ± 1.038 χ^2/NDF : 3451.1/24

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

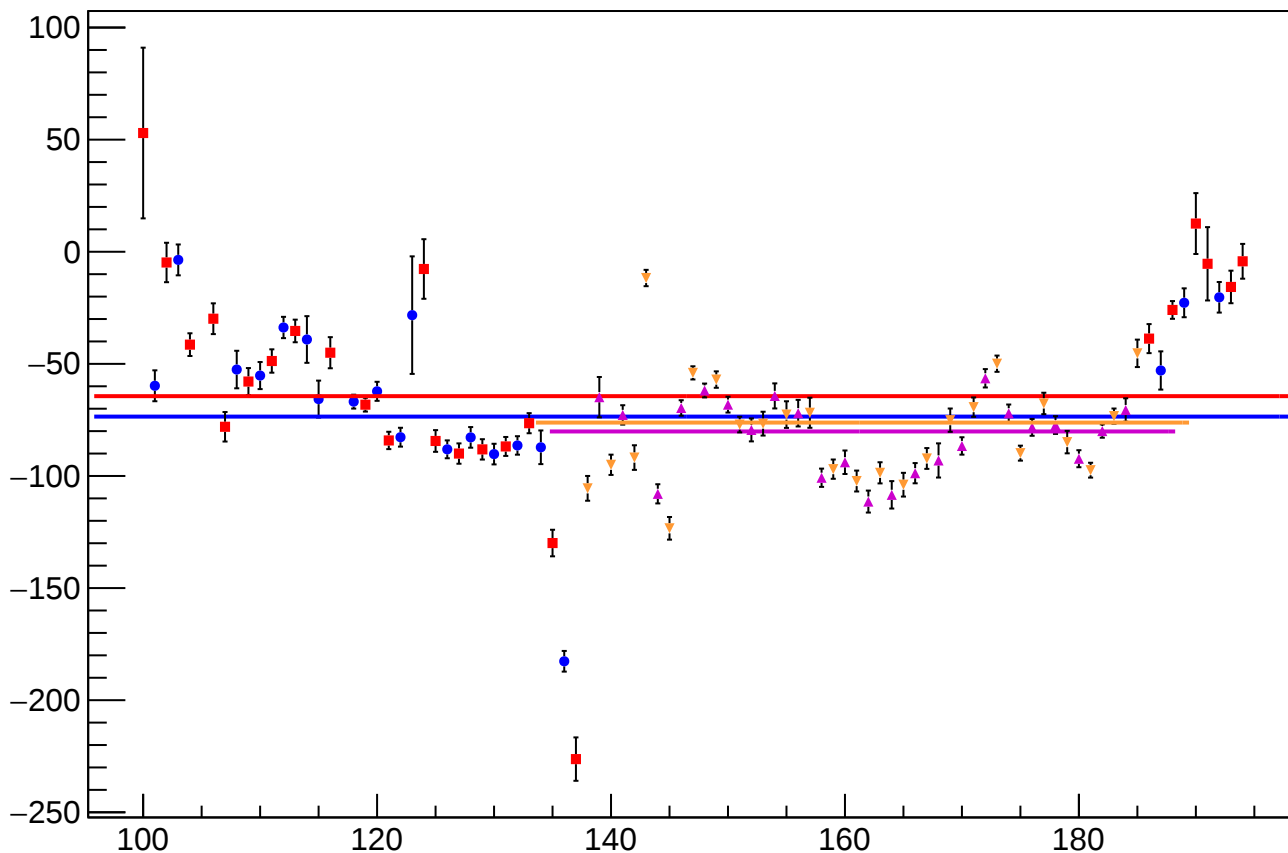
Right: -196.318 ± 0.837 χ^2/NDF : 5339.9/44

In: -188.390 ± 0.812 χ^2/NDF : 4988.5/42

Out: -184.415 ± 0.709 χ^2/NDF : 9138.1/49

All: -186.135 ± 0.534 χ^2/NDF : 14140.2/92

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.521 ± 1.186 χ^2/NDF : 956.0/19

Left Out: -76.182 ± 0.857 χ^2/NDF : 801.0/24

Right Out: -64.403 ± 1.106 χ^2/NDF : 977.1/24

Left In: -80.149 ± 0.889 χ^2/NDF : 283.3/22

Left: -78.094 ± 0.617 χ^2/NDF : 1094.6/47

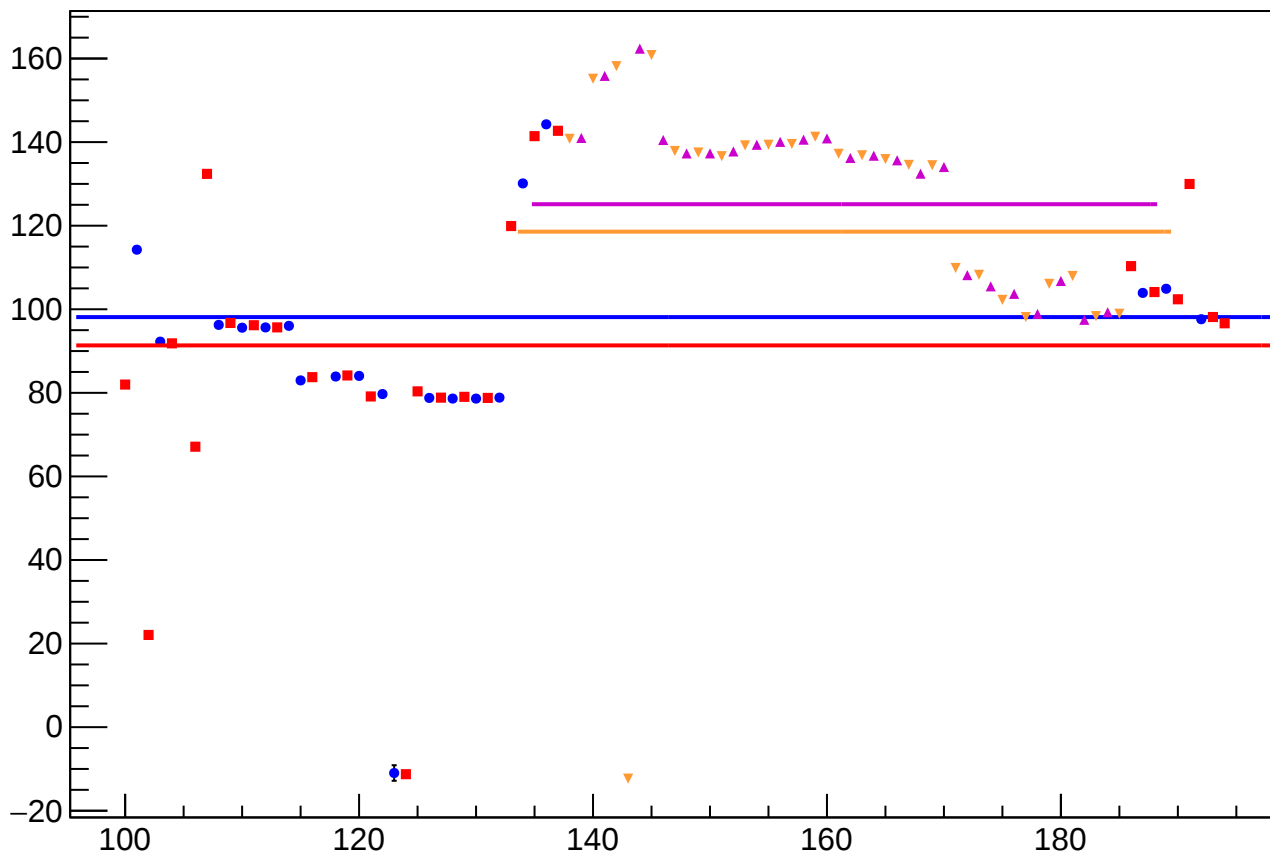
Right: -68.644 ± 0.809 χ^2/NDF : 1964.7/44

In: -77.765 ± 0.711 χ^2/NDF : 1259.3/42

Out: -71.763 ± 0.678 χ^2/NDF : 1848.9/49

All: -74.618 ± 0.491 χ^2/NDF : 3145.5/92

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.126 $\pm$ 0.067 χ^2 /NDF: 94589.1/19

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 91.352 $\pm$ 0.059 χ^2 /NDF: 239545.6/24

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

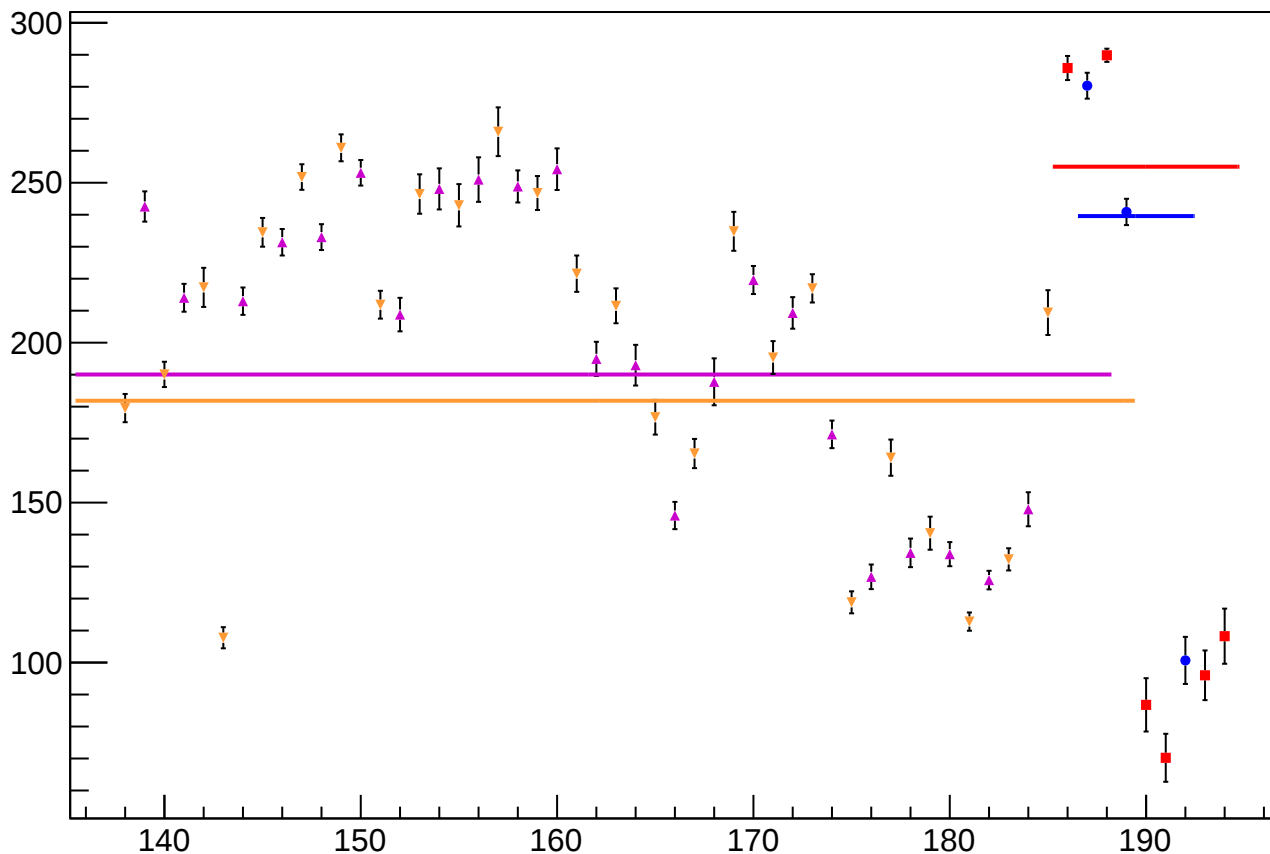
Right: 94.262 $\pm$ 0.044 χ^2 /NDF: 339891.9/44

In: 117.775 $\pm$ 0.035 χ^2 /NDF: 432232.5/42

Out: 109.754 $\pm$ 0.033 χ^2 /NDF: 1114542.3/49

All: 113.541 $\pm$ 0.024 χ^2 /NDF: 1574169.6/92

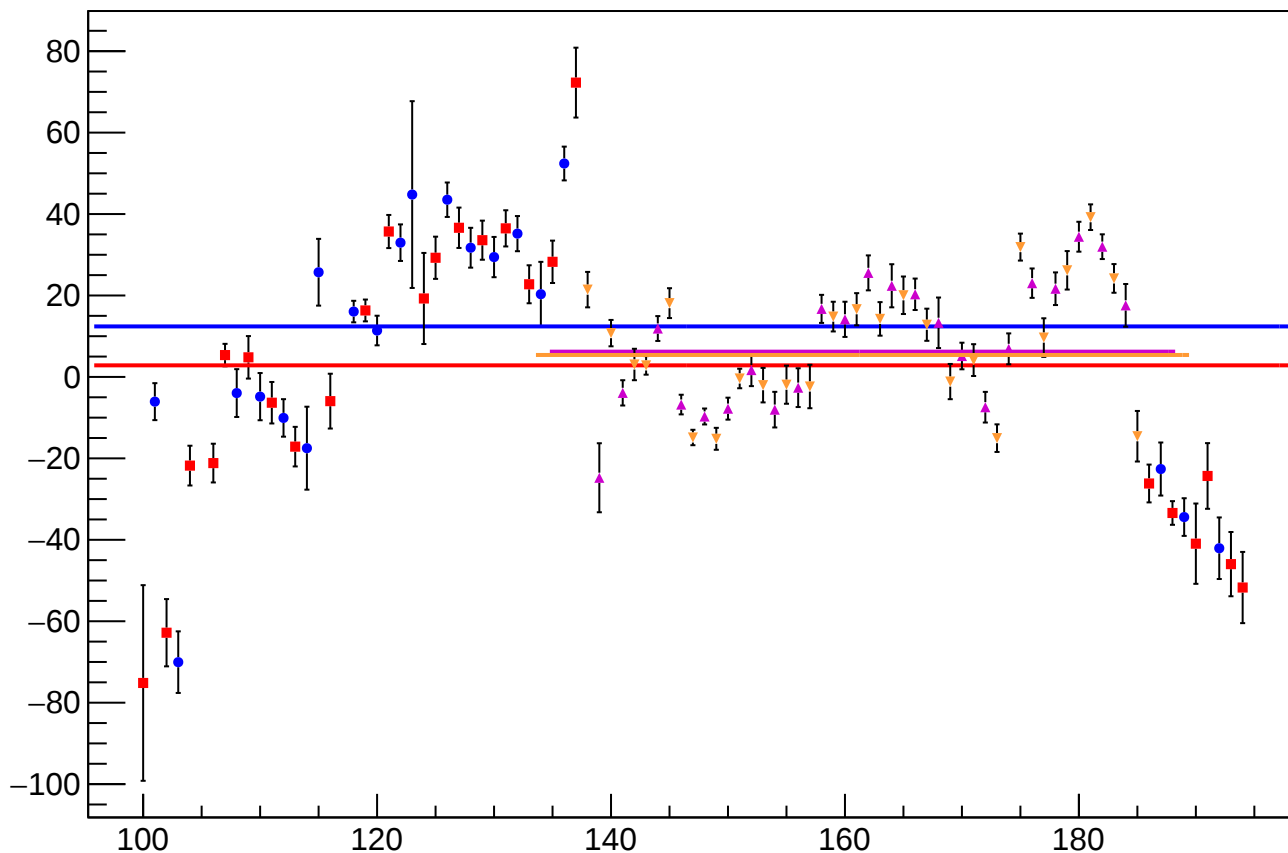
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 239.576 ± 2.686 $\chi^2/\text{NDF}: 457.8/2$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 255.016 ± 1.652 $\chi^2/\text{NDF}: 2074.2/5$
 Left In: 190.048 ± 0.953 $\chi^2/\text{NDF}: 2438.4/22$

Left: 185.775 ± 0.659 $\chi^2/\text{NDF}: 5780.3/47$
 Right: 250.779 ± 1.407 $\chi^2/\text{NDF}: 2556.1/8$
 In: 195.584 ± 0.898 $\chi^2/\text{NDF}: 3198.2/25$
 Out: 198.983 ± 0.799 $\chi^2/\text{NDF}: 6880.3/30$
 All: 197.481 ± 0.597 $\chi^2/\text{NDF}: 10086.5/56$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.404+/-1.104 χ^2/NDF : 598.8/19

Left Out: 5.394+/-0.688 χ^2/NDF : 526.5/24

Right Out: 2.843+/-0.967 χ^2/NDF : 821.6/24

Left In: 6.206+/-0.732 χ^2/NDF : 407.5/22

Left: 5.775+/-0.501 χ^2/NDF : 934.7/47

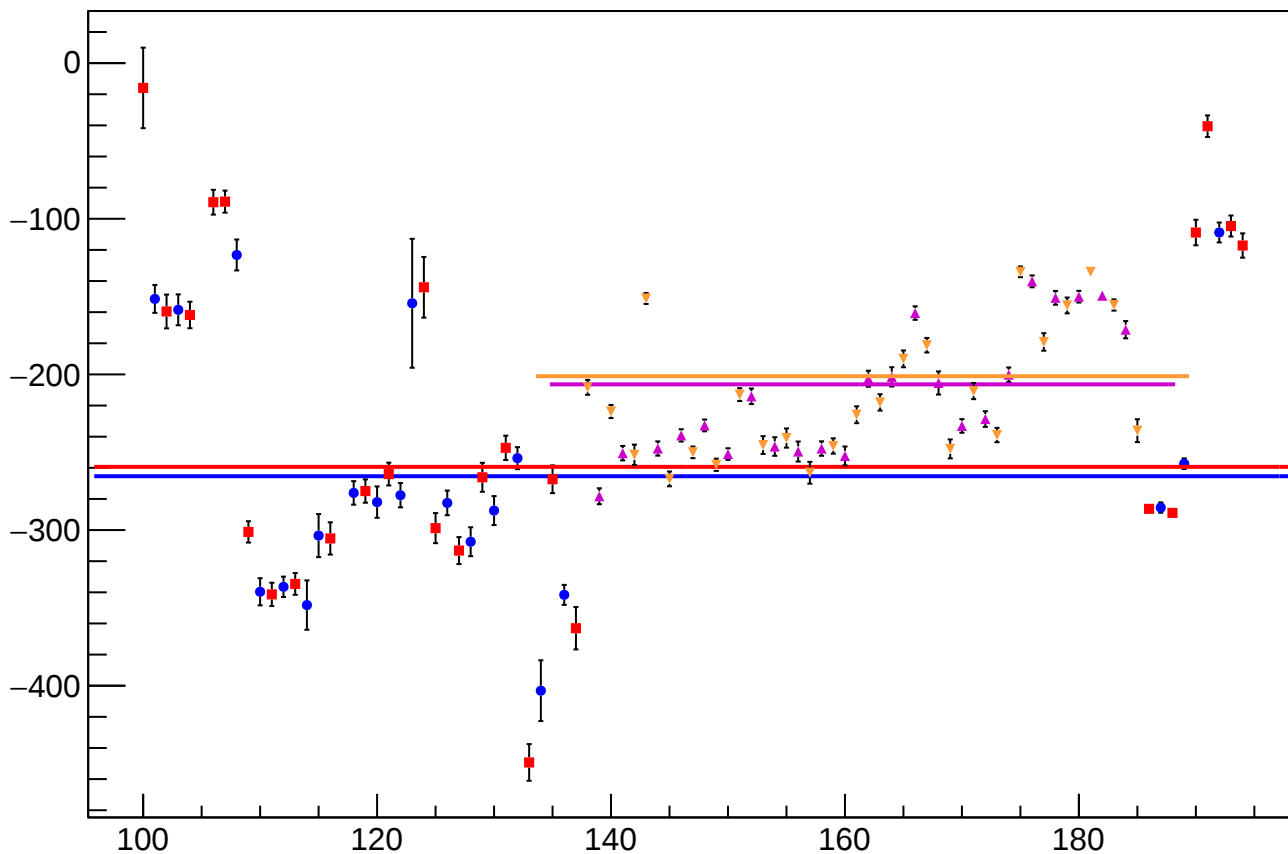
Right: 6.995+/-0.727 χ^2/NDF : 1462.9/44

In: 8.098+/-0.610 χ^2/NDF : 1028.2/42

Out: 4.536+/-0.561 χ^2/NDF : 1352.8/49

All: 6.168+/-0.413 χ^2/NDF : 2399.5/92

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -265.417 $\pm$ 1.563 χ^2 /NDF: 1586.2/19

Left Out: -201.144 $\pm$ 0.918 χ^2 /NDF:2488.8/24

Right Out: -259.392 $\pm$ 1.124 χ^2 /NDF: 4628.6/24

Left In: -206.379 $\pm$ 0.950 χ^2 /NDF:2111.6/22

Left: -203.672 $\pm$ 0.660 χ^2 /NDF: 4616.1/47

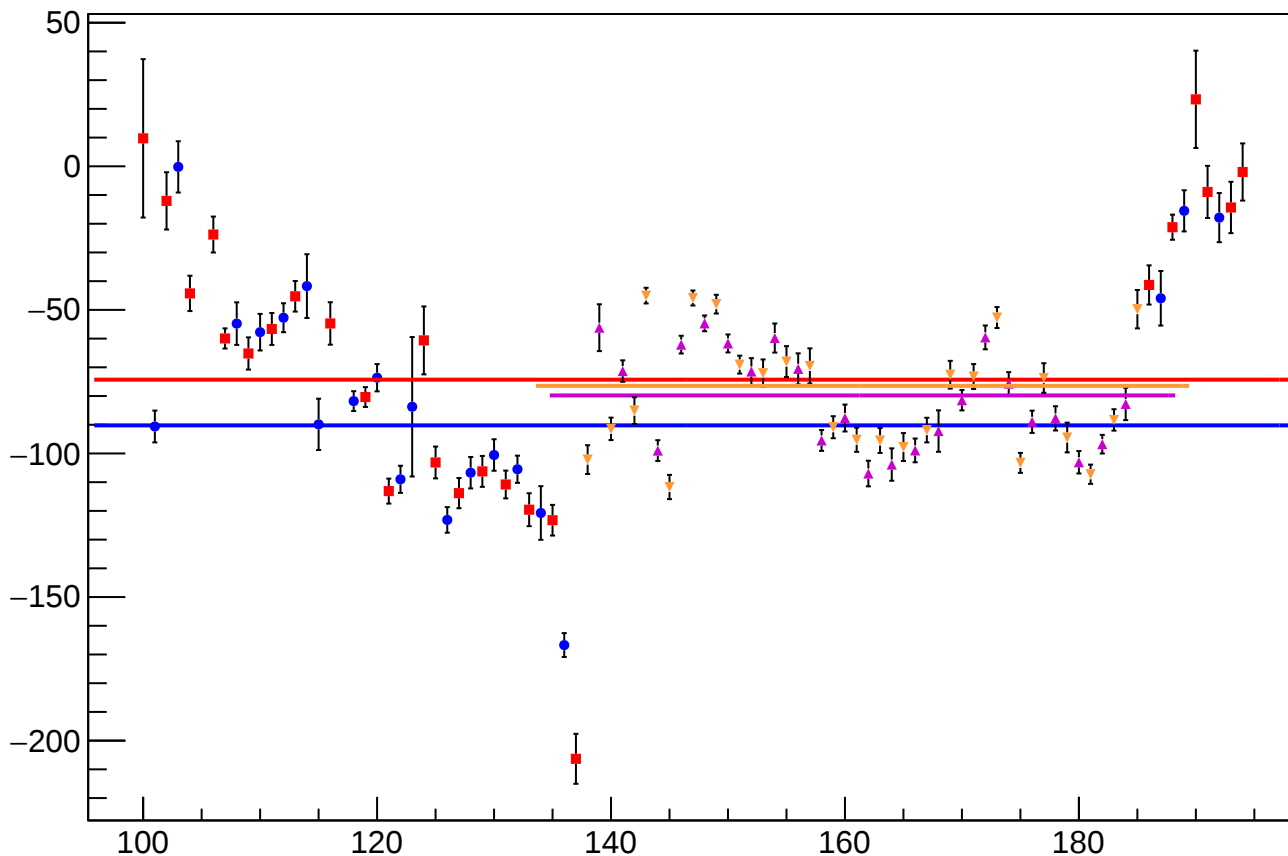
Right: -261.446 $\pm$ 0.913 χ^2 /NDF: 6224.5/44

In: -222.293 $\pm$ 0.812 χ^2 /NDF:4739.7/42

Out: -224.445 $\pm$ 0.711 χ^2 /NDF:8728.5/49

All: -223.510 $\pm$ 0.535 χ^2 /NDF: 13472.1/92

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -90.217 ± 1.293 χ^2/NDF : 886.8/19

Left Out: -76.460 ± 0.797 χ^2/NDF : 781.3/24

Right Out: -74.300 ± 1.160 χ^2/NDF : 1194.4/24

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

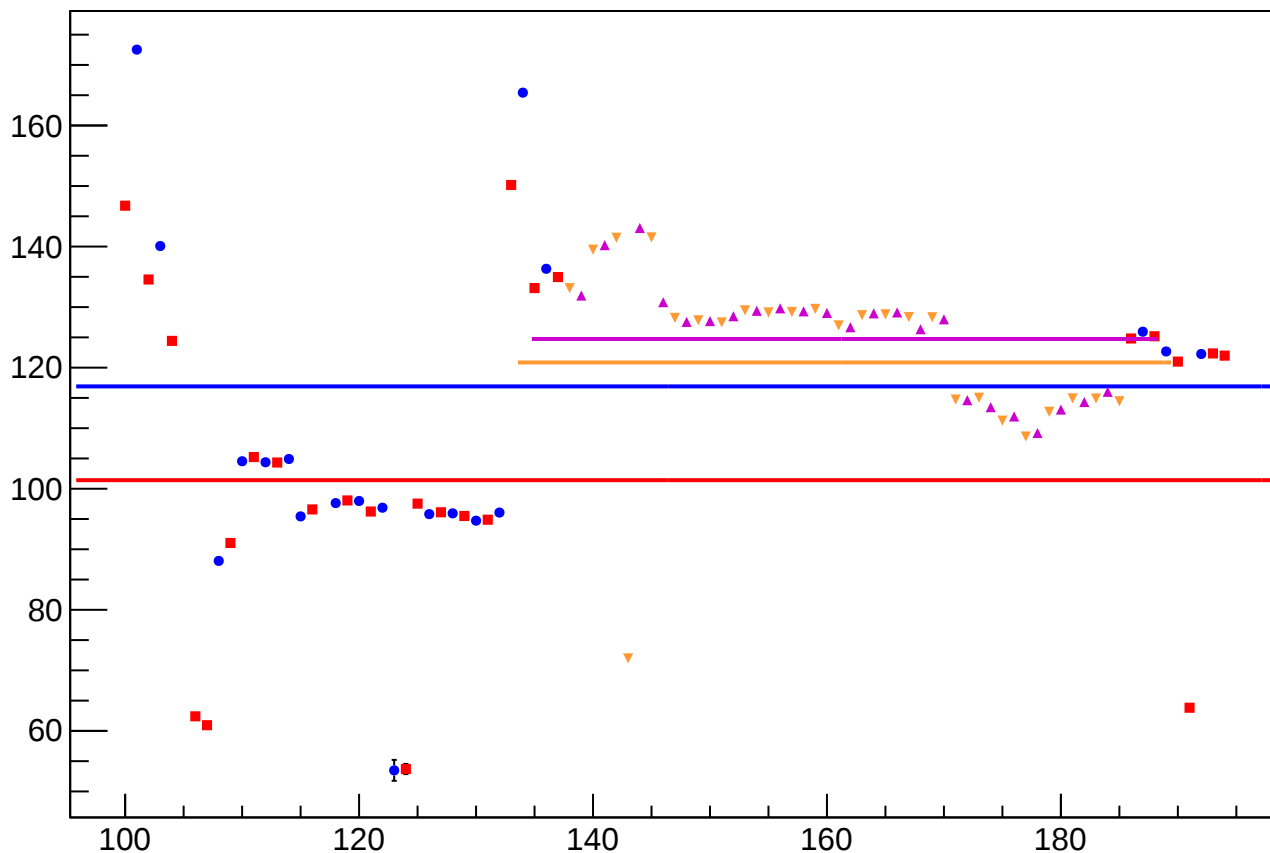
Right: -81.399 ± 0.863 χ^2/NDF : 2165.1/44

In: -82.885 ± 0.704 χ^2/NDF : 1344.8/42

Out: -75.767 ± 0.657 χ^2/NDF : 1978.0/49

All: -79.078 ± 0.480 χ^2/NDF : 3377.4/92

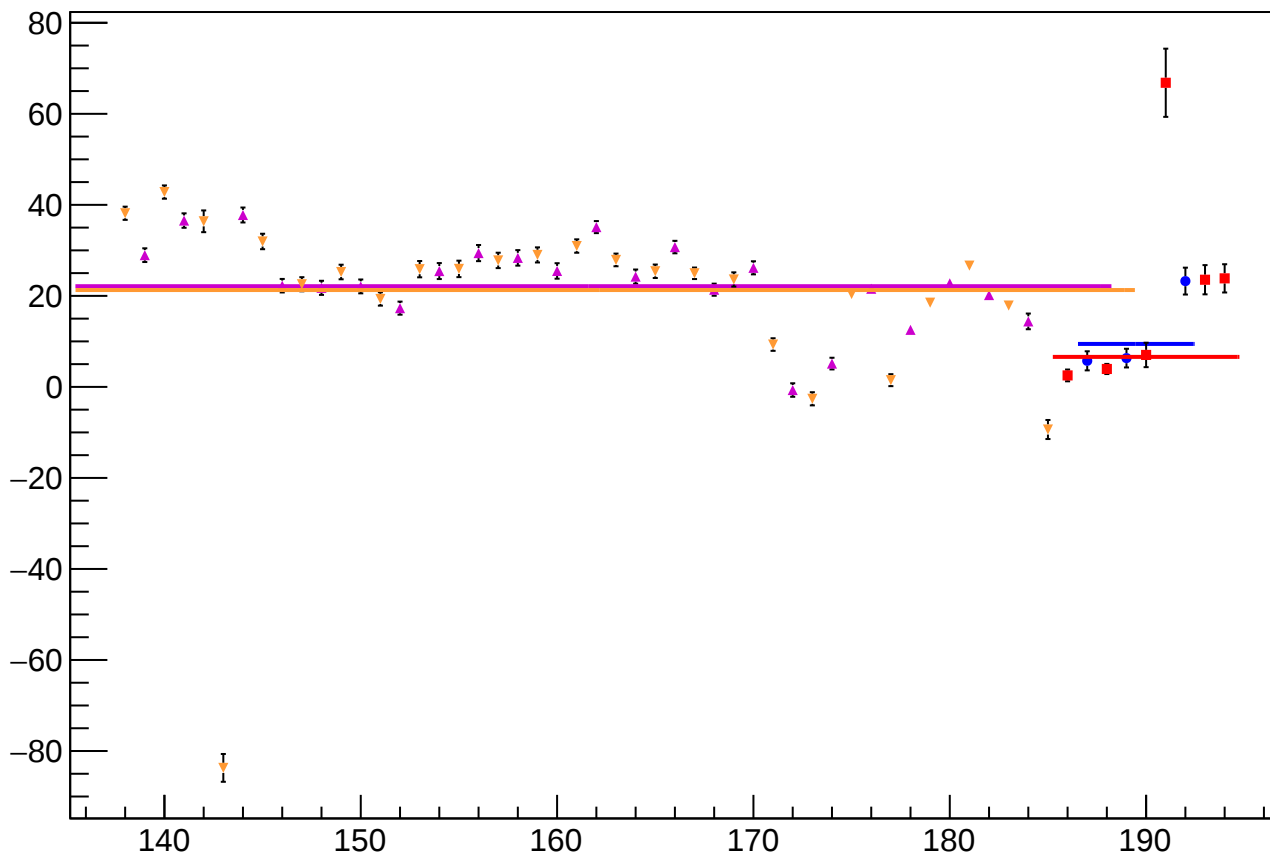
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 116.904 $\pm$ 0.073 χ^2 /NDF: 106739.1/19
 Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24
 Right Out: 101.414 $\pm$ 0.060 χ^2 /NDF: 221817.3/24
 Left In: 124.738 $\pm$ 0.039 χ^2 /NDF:51298.3/22

Left: 122.737 $\pm$ 0.027 χ^2 /NDF: 239101.1/47
 Right: 107.628 $\pm$ 0.046 χ^2 /NDF: 355469.4/44
 In: 122.984 $\pm$ 0.035 χ^2 /NDF:166958.0/42
 Out: 115.252 $\pm$ 0.032 χ^2 /NDF:479793.1/49
 All: 118.832 $\pm$ 0.024 χ^2 /NDF: 673600.4/92

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.442 ± 1.314 $\chi^2/\text{NDF}: 27.3/2$

Left Out: 21.282 ± 0.282 $\chi^2/\text{NDF}: 2600.5/24$

Right Out: 6.594 ± 0.754 $\chi^2/\text{NDF}: 139.0/5$

Left In: 22.127 ± 0.285 $\chi^2/\text{NDF}: 900.2/22$

Left: 21.700 ± 0.201 $\chi^2/\text{NDF}: 3505.2/47$

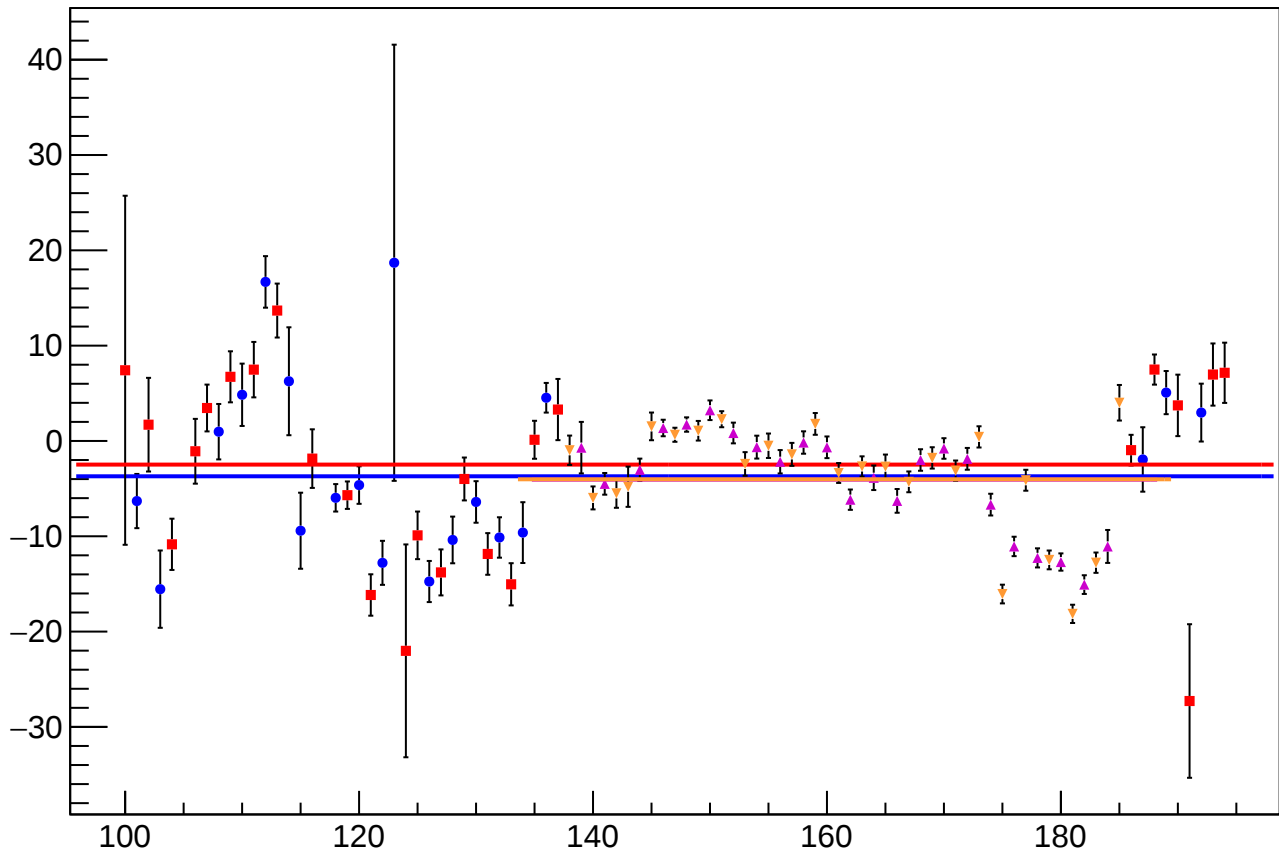
Right: 7.299 ± 0.654 $\chi^2/\text{NDF}: 169.9/8$

In: 21.554 ± 0.279 $\chi^2/\text{NDF}: 1016.6/25$

Out: 19.473 ± 0.264 $\chi^2/\text{NDF}: 3072.5/30$

All: 20.458 ± 0.192 $\chi^2/\text{NDF}: 4118.4/56$

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.707 ± 0.553 $\chi^2/\text{NDF}: 195.9/19$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -2.480 ± 0.499 $\chi^2/\text{NDF}: 279.0/24$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

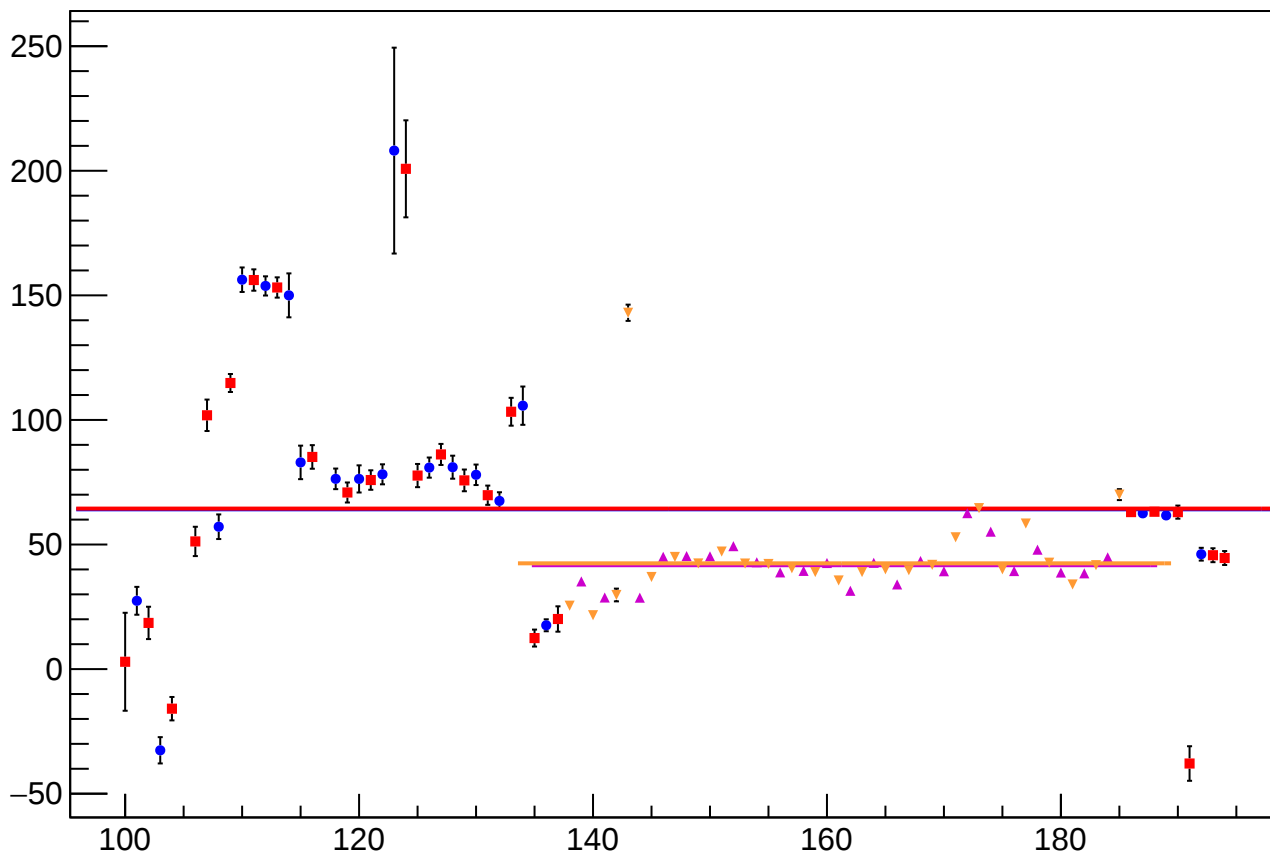
Right: -3.031 ± 0.370 $\chi^2/\text{NDF}: 477.6/44$

In: -4.007 ± 0.211 $\chi^2/\text{NDF}: 773.5/42$

Out: -3.765 ± 0.204 $\chi^2/\text{NDF}: 1021.1/49$

All: -3.882 ± 0.147 $\chi^2/\text{NDF}: 1795.2/92$

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 64.128+/-0.776 χ^2/NDF : 1915.5/19

Left Out: 42.452+/-0.282 χ^2/NDF : 2016.0/24

Right Out: 64.421+/-0.538 χ^2/NDF : 2316.9/24

Left In: 41.695+/-0.284 χ^2/NDF : 630.2/22

Left: 42.077+/-0.200 χ^2/NDF : 2649.8/47

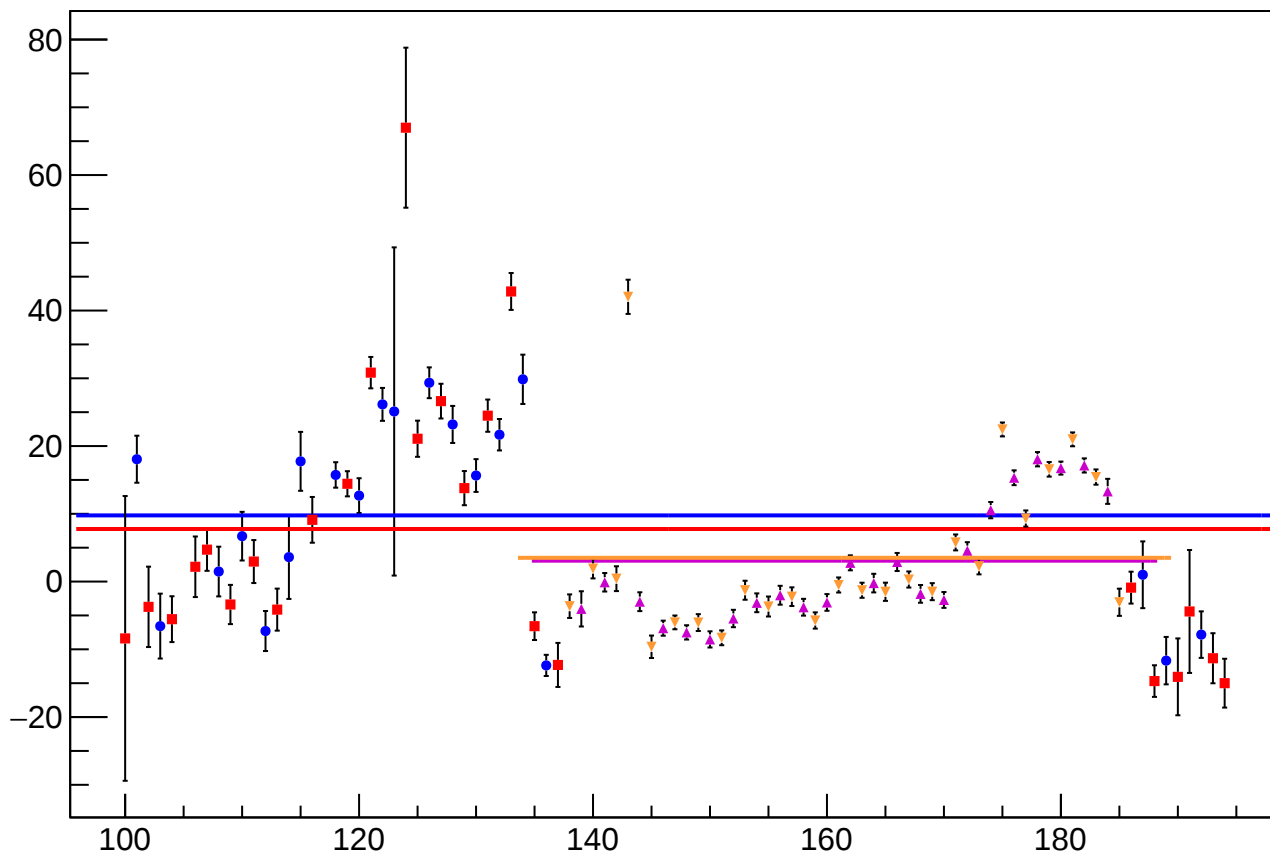
Right: 64.326+/-0.442 χ^2/NDF : 4232.6/44

In: 44.345+/-0.267 χ^2/NDF : 3282.1/42

Out: 47.187+/-0.250 χ^2/NDF : 5641.5/49

All: 45.860+/-0.182 χ^2/NDF : 8984.1/92

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.766 $\pm$ 0.638 χ^2 /NDF: 547.1/19

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 7.759 $\pm$ 0.596 χ^2 /NDF: 768.2/24

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

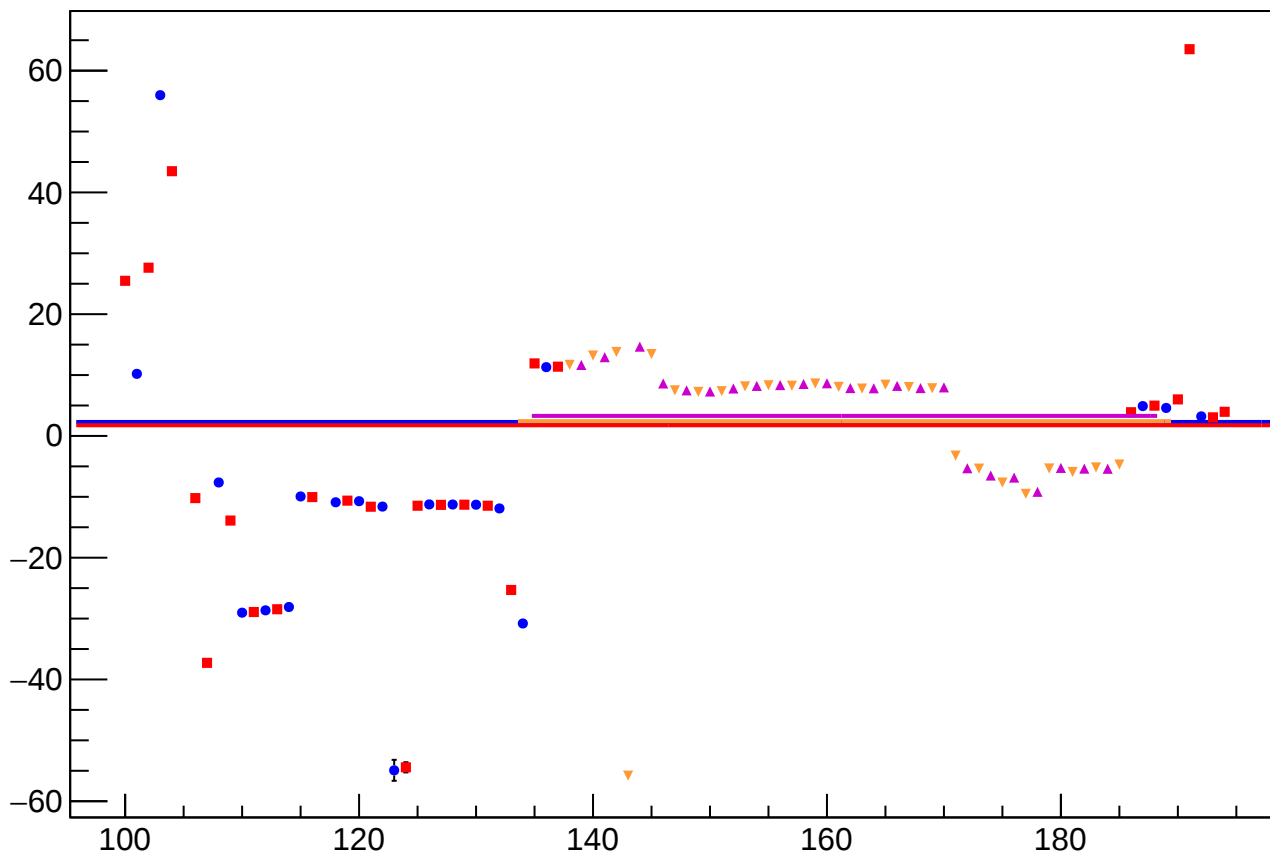
Right: 8.694 $\pm$ 0.435 χ^2 /NDF: 1320.6/44

In: 4.014 $\pm$ 0.238 χ^2 /NDF:1907.2/42

Out: 4.152 $\pm$ 0.232 χ^2 /NDF:2502.7/49

All: 4.085 $\pm$ 0.166 χ^2 /NDF: 4410.1/92

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.296 $\pm$ 0.034 χ^2 /NDF: 358327.1/19

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 1.752 $\pm$ 0.031 χ^2 /NDF: 428979.2/24

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

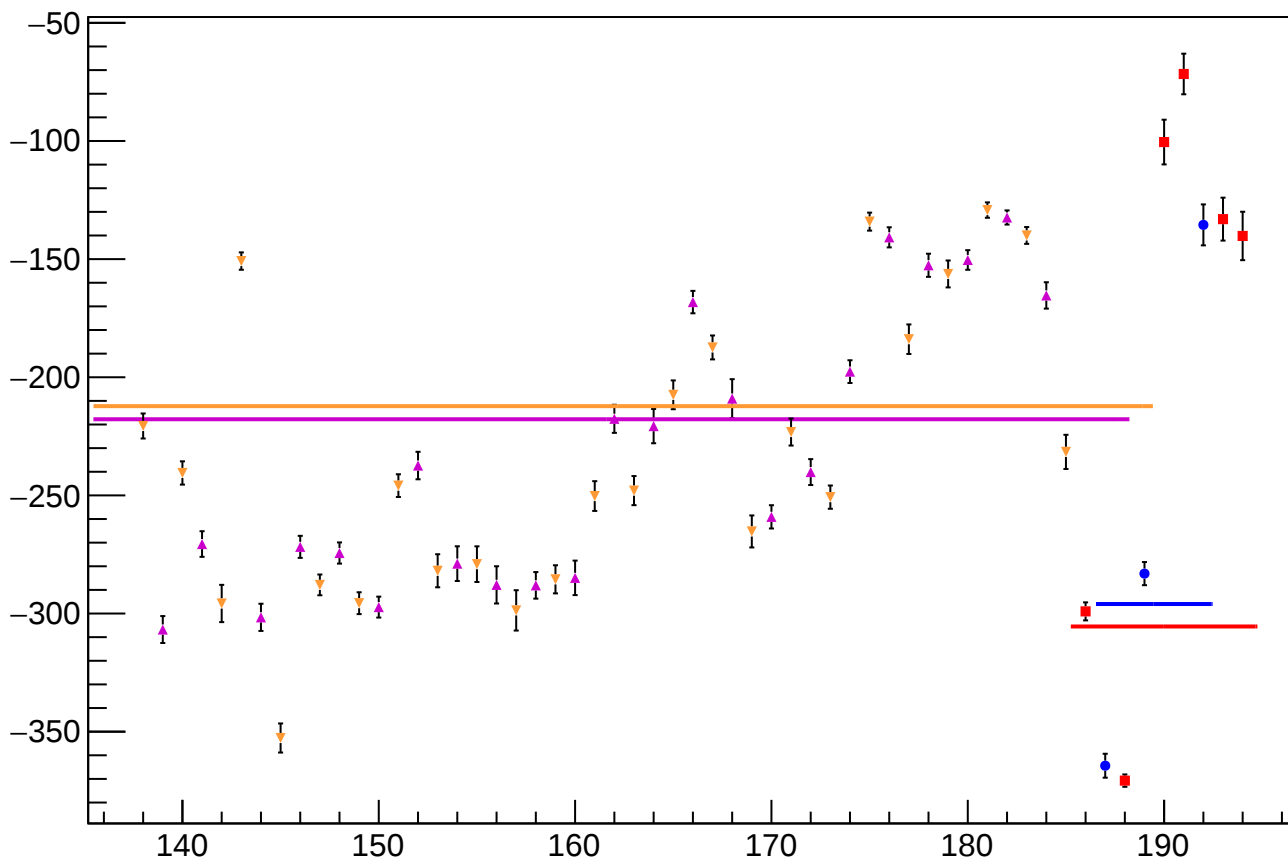
Right: 1.997 $\pm$ 0.023 χ^2 /NDF: 787447.0/44

In: 3.188 $\pm$ 0.011 χ^2 /NDF: 763418.4/42

Out: 2.342 $\pm$ 0.011 χ^2 /NDF: 1045779.9/49

All: 2.757 $\pm$ 0.008 χ^2 /NDF: 1812193.6/92

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -295.976 ± 3.262 $\chi^2/\text{NDF}: 532.3/2$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -305.483 ± 1.954 $\chi^2/\text{NDF}: 2457.0/5$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

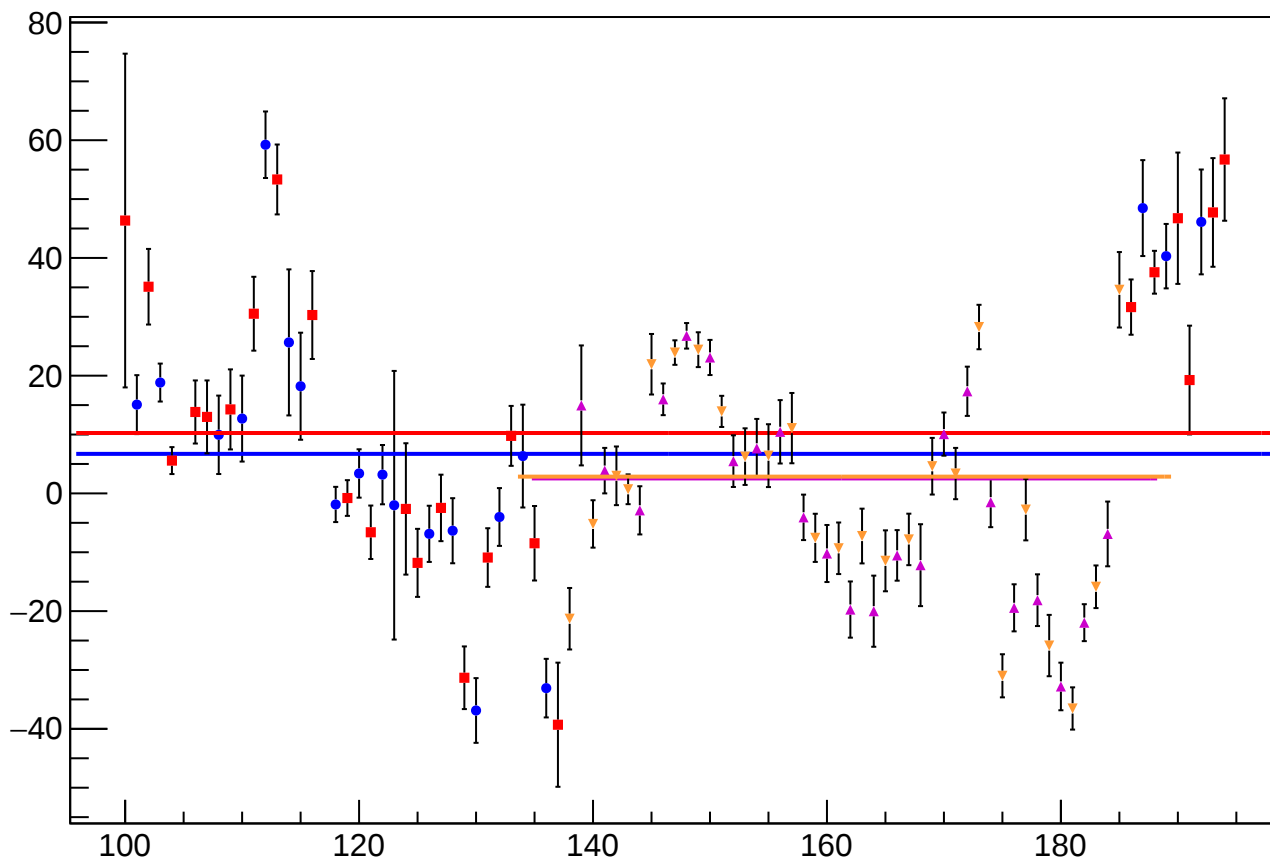
Right: -302.971 ± 1.677 $\chi^2/\text{NDF}: 2995.5/8$

In: -225.335 ± 1.014 $\chi^2/\text{NDF}: 4500.5/25$

Out: -232.482 ± 0.911 $\chi^2/\text{NDF}: 8114.4/30$

All: -229.291 ± 0.678 $\chi^2/\text{NDF}: 12642.4/56$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.714 ± 1.191 $\chi^2/\text{NDF}: 346.4/19$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 10.259 ± 1.050 $\chi^2/\text{NDF}: 375.2/24$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

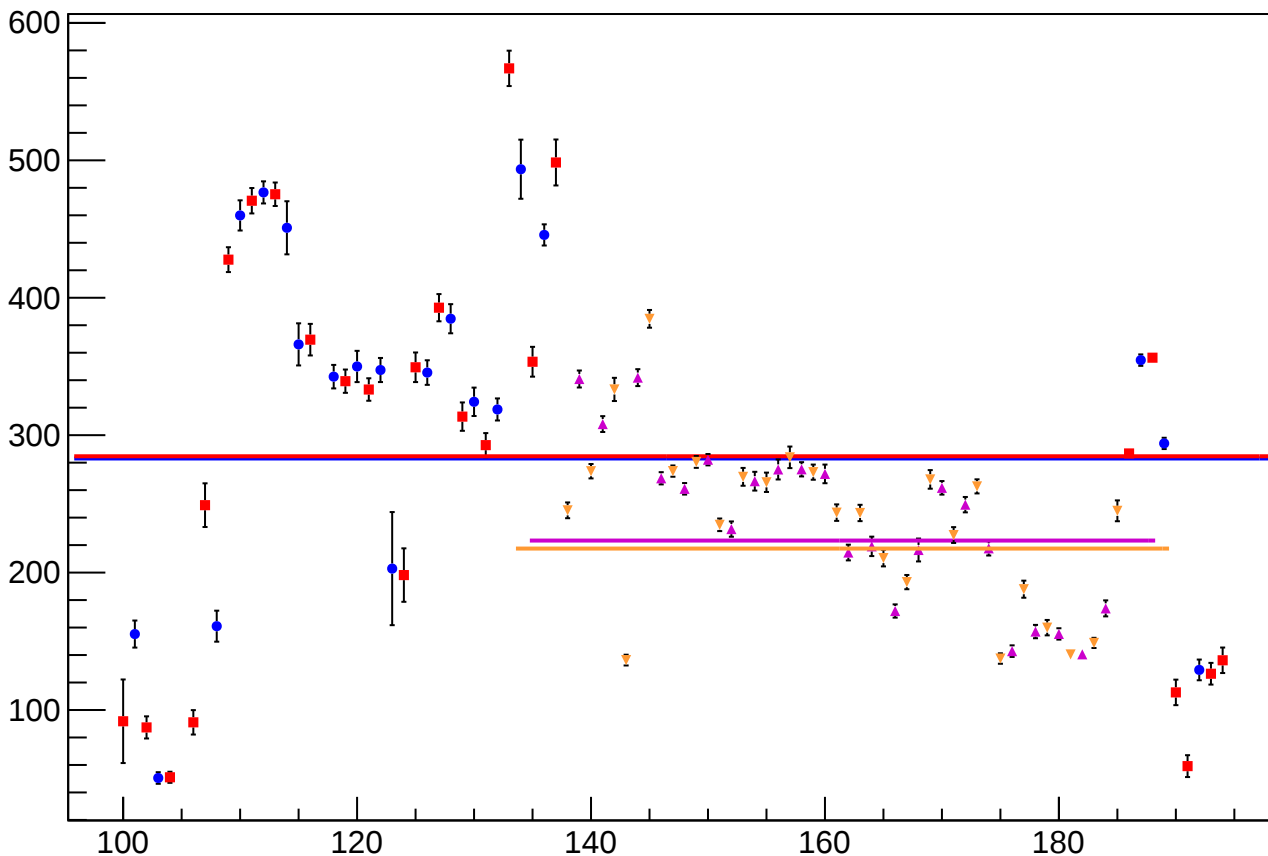
Right: 8.708 ± 0.788 $\chi^2/\text{NDF}: 726.6/44$

In: 3.889 ± 0.677 $\chi^2/\text{NDF}: 828.4/42$

Out: 5.460 ± 0.623 $\chi^2/\text{NDF}: 989.6/49$

All: 4.738 ± 0.458 $\chi^2/\text{NDF}: 1820.9/92$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 283.036+/-1.716 χ^2/NDF : 5832.7/19

Left Out: 217.484+/-1.032 χ^2/NDF : 3769.5/24

Right Out: 284.647+/-1.269 χ^2/NDF : 9596.4/24

Left In: 223.309+/-1.062 χ^2/NDF : 3378.0/22

Left: 220.314+/-0.740 χ^2/NDF : 7163.0/47

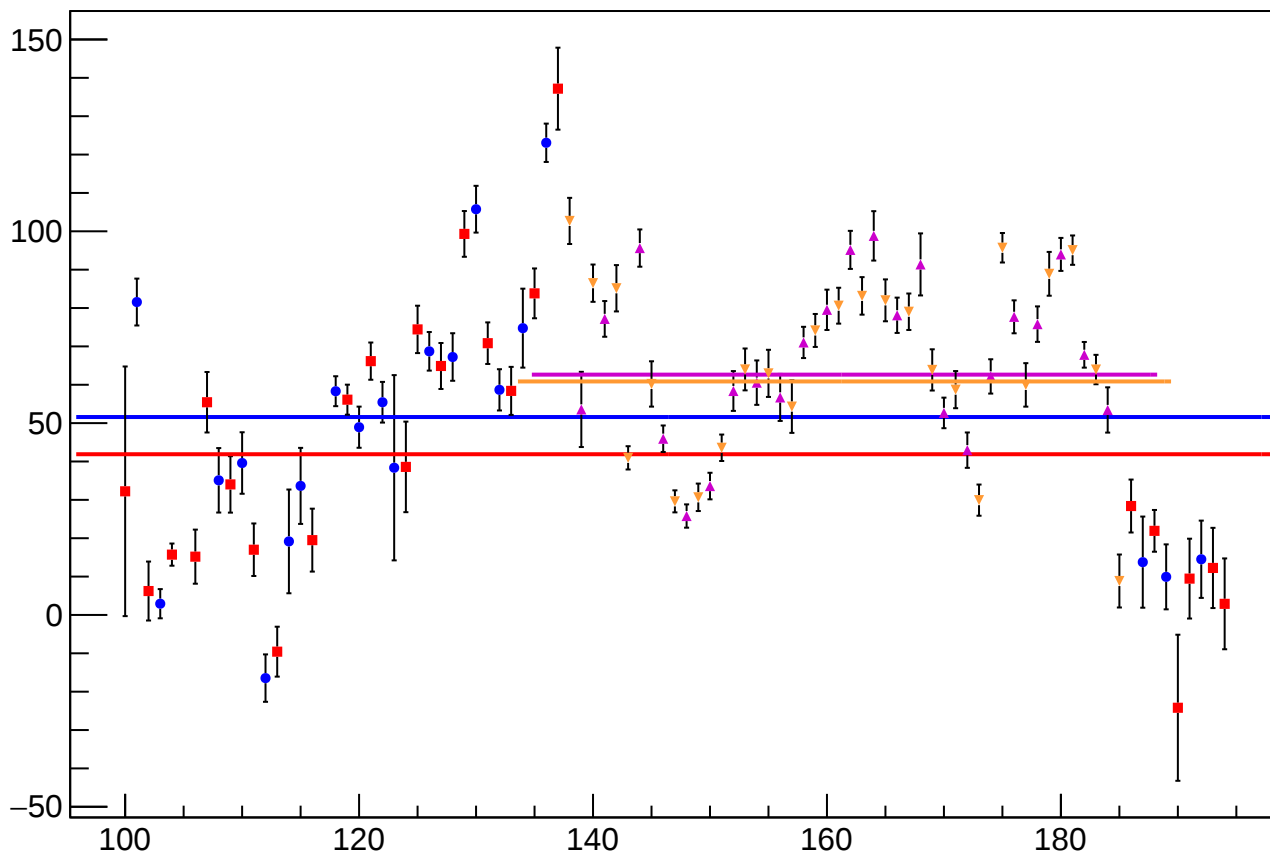
Right: 284.077+/-1.020 χ^2/NDF : 15429.7/44

In: 239.853+/-0.903 χ^2/NDF : 10087.0/42

Out: 244.220+/-0.801 χ^2/NDF : 15050.8/49

All: 242.297+/-0.599 χ^2/NDF : 25150.9/92

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 51.589 $\pm$ 1.397 χ^2 /NDF: 684.2/19

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 41.892 $\pm$ 1.265 χ^2 /NDF: 593.5/24

Left In: 62.640 $\pm$ 0.943 χ^2 /NDF: 515.4/22

Left: 61.707 $\pm$ 0.650 χ^2 /NDF: 1248.9/47

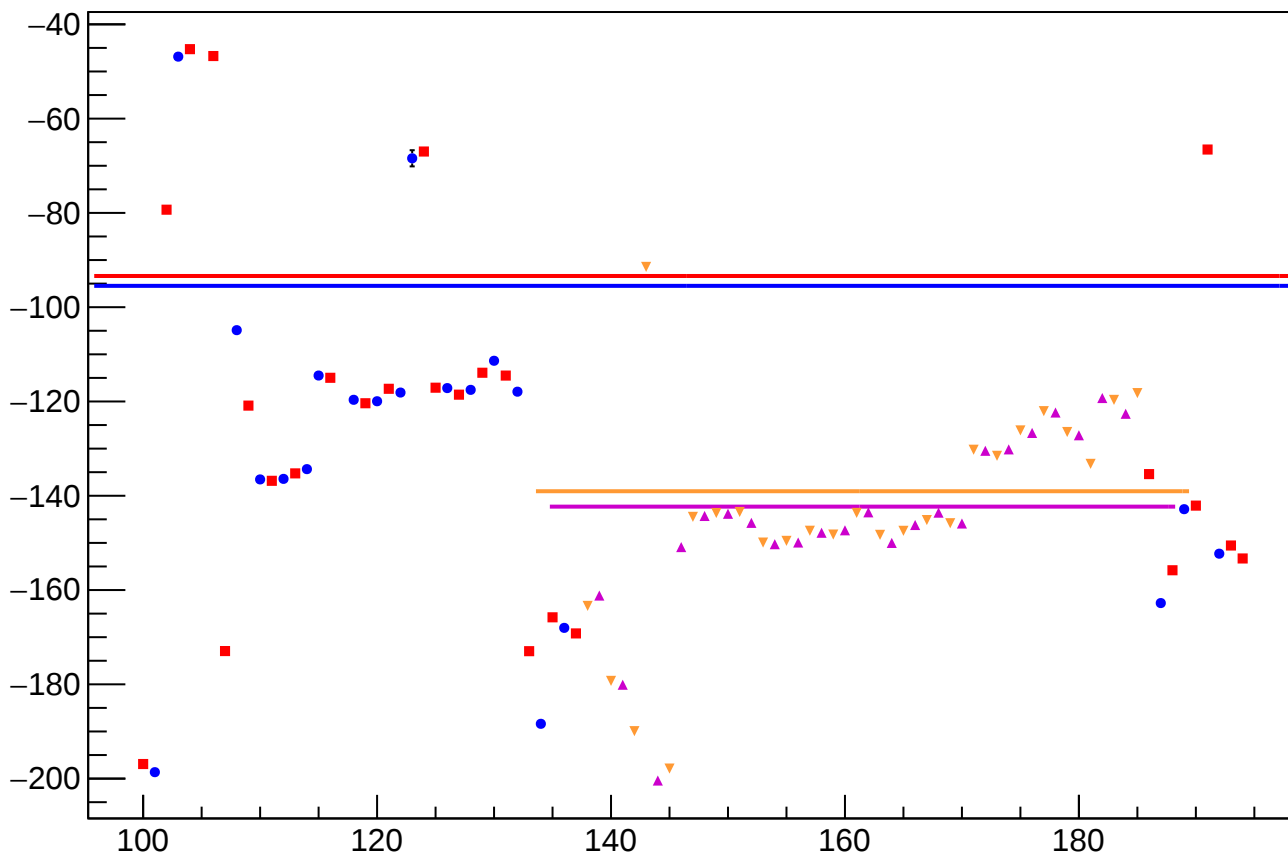
Right: 46.264 $\pm$ 0.938 χ^2 /NDF: 1304.2/44

In: 59.181 $\pm$ 0.781 χ^2 /NDF: 1242.6/42

Out: 54.522 $\pm$ 0.732 χ^2 /NDF: 1474.7/49

All: 56.699 $\pm$ 0.534 χ^2 /NDF: 2736.3/92

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -95.474+/-0.065 χ^2/NDF : 593833.2/19

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -93.380+/-0.059 χ^2/NDF : 641175.2/24

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

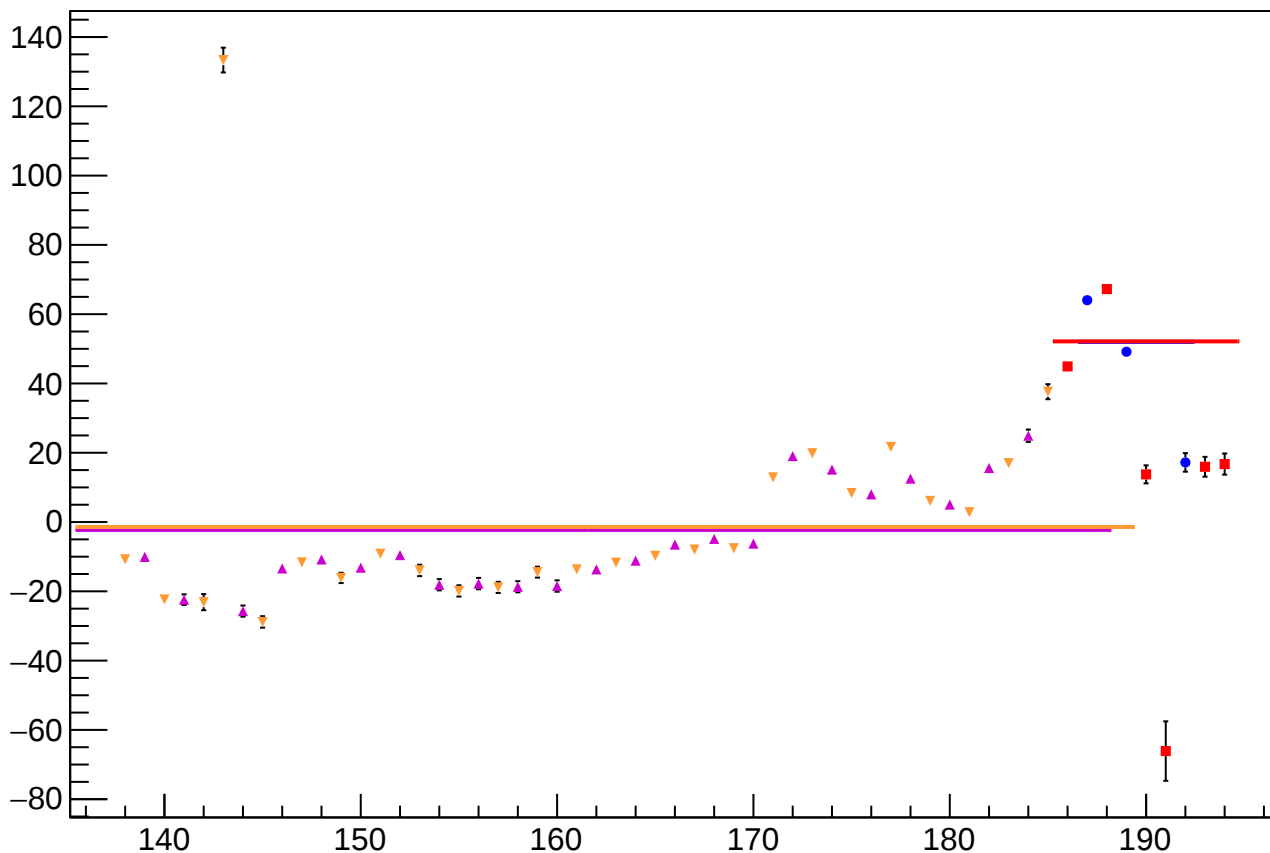
Right: -94.327+/-0.044 χ^2/NDF : 1235574.5/44

In: -127.586+/-0.036 χ^2/NDF : 1091978.3/42

Out: -123.322+/-0.035 χ^2/NDF : 1289804.1/49

All: -125.347+/-0.025 χ^2/NDF : 2388948.9/92

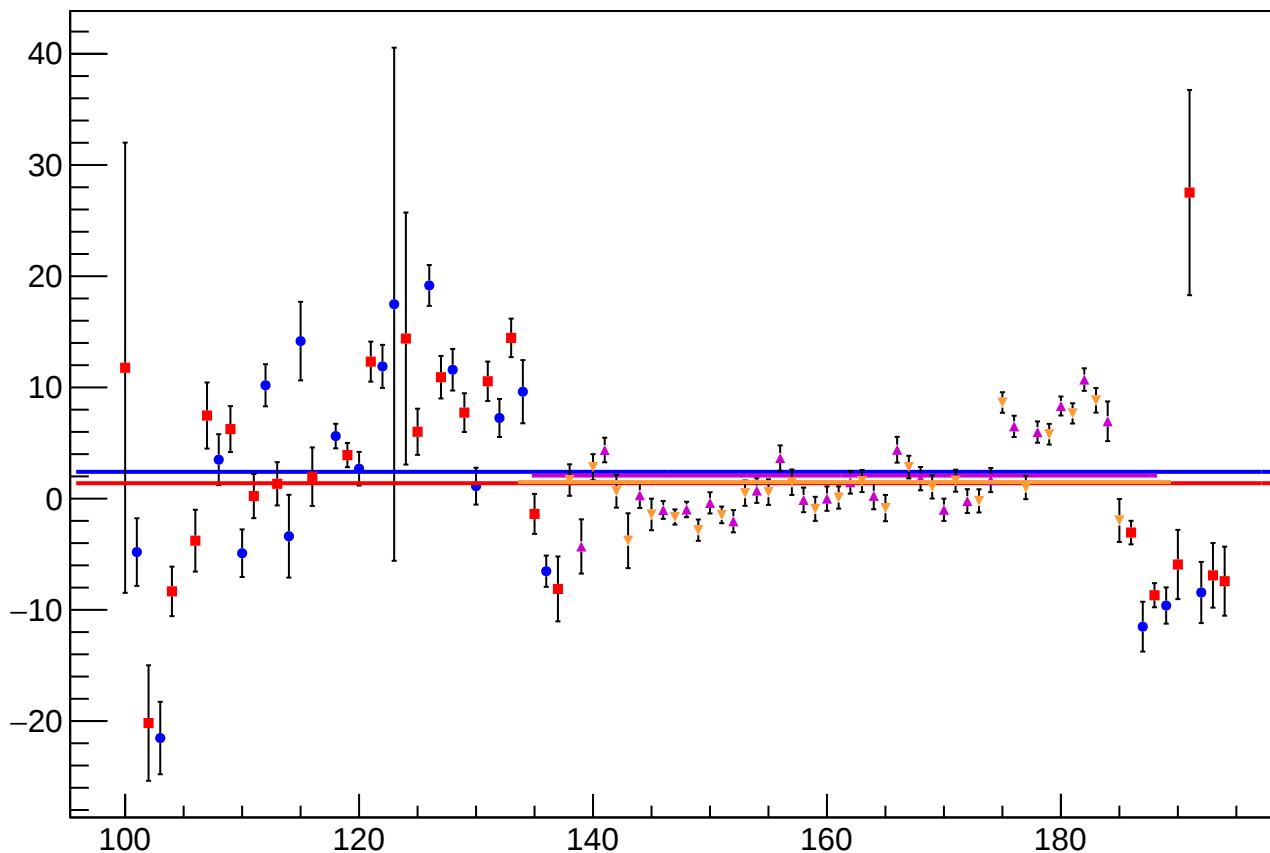
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 52.009+/-0.942 χ^2/NDF : 247.4/2
 Left Out: -1.427+/-0.268 χ^2/NDF : 4339.0/24
 Right Out: 52.151+/-0.543 χ^2/NDF : 1152.2/5
 Left In: -2.270+/-0.271 χ^2/NDF : 2521.6/22

Left: -1.844+/-0.190 χ^2/NDF : 6865.5/47
 Right: 52.115+/-0.470 χ^2/NDF : 1399.6/8
 In: 1.871+/-0.260 χ^2/NDF : 5835.3/25
 Out: 9.054+/-0.240 χ^2/NDF : 13331.1/30
 All: 5.752+/-0.176 χ^2/NDF : 19578.1/56

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.410 $\pm$ 0.439 χ^2 /NDF: 406.4/19

Left Out: 1.491 $\pm$ 0.210 χ^2 /NDF:259.1/24

Right Out: 1.388 $\pm$ 0.391 χ^2 /NDF: 367.2/24

Left In: 2.075 $\pm$ 0.215 χ^2 /NDF:274.6/22

Left: 1.776 $\pm$ 0.150 χ^2 /NDF: 537.4/47

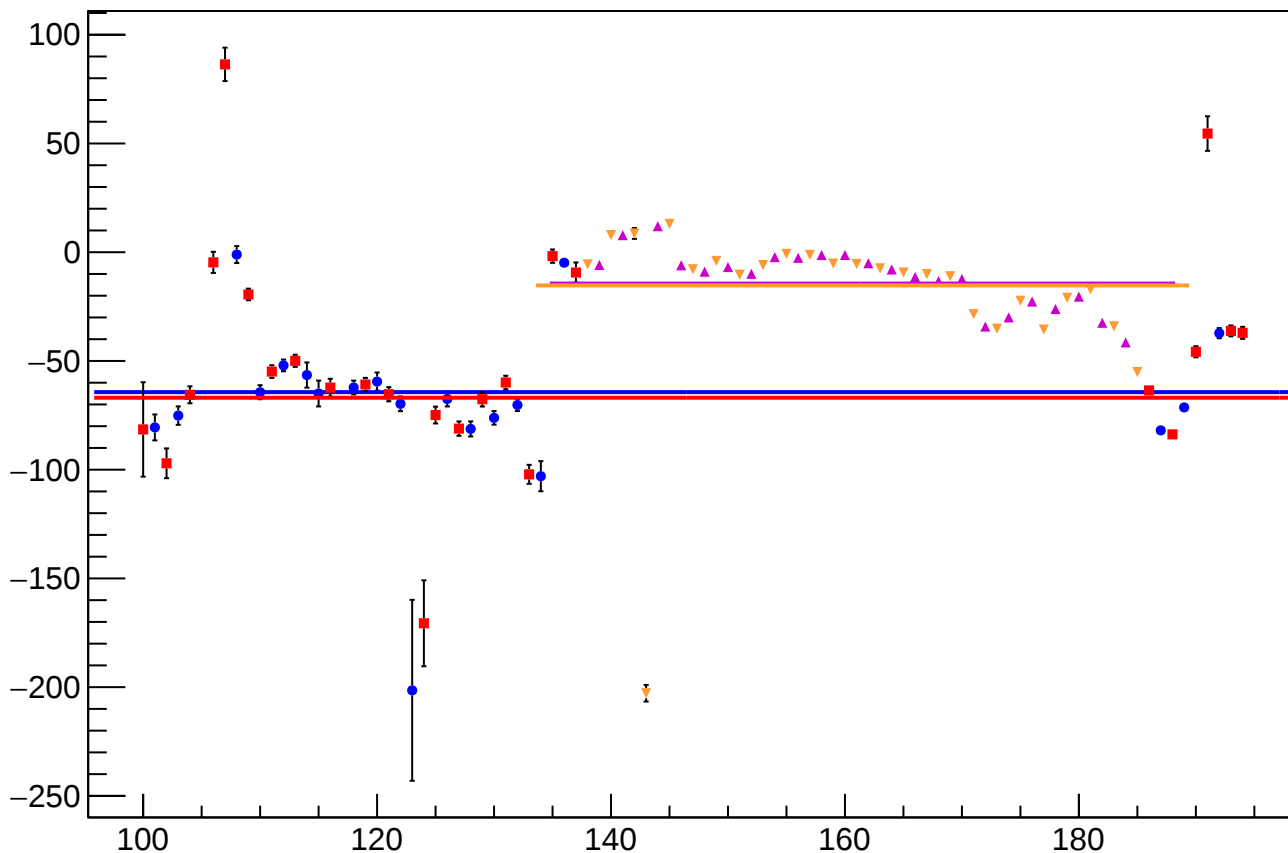
Right: 1.841 $\pm$ 0.292 χ^2 /NDF: 776.6/44

In: 2.140 $\pm$ 0.193 χ^2 /NDF:681.4/42

Out: 1.468 $\pm$ 0.185 χ^2 /NDF:626.4/49

All: 1.790 $\pm$ 0.134 χ^2 /NDF: 1314.1/92

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.343+/-0.583 χ^2/NDF : 1551.4/19

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -66.916+/-0.393 χ^2/NDF : 3012.4/24

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

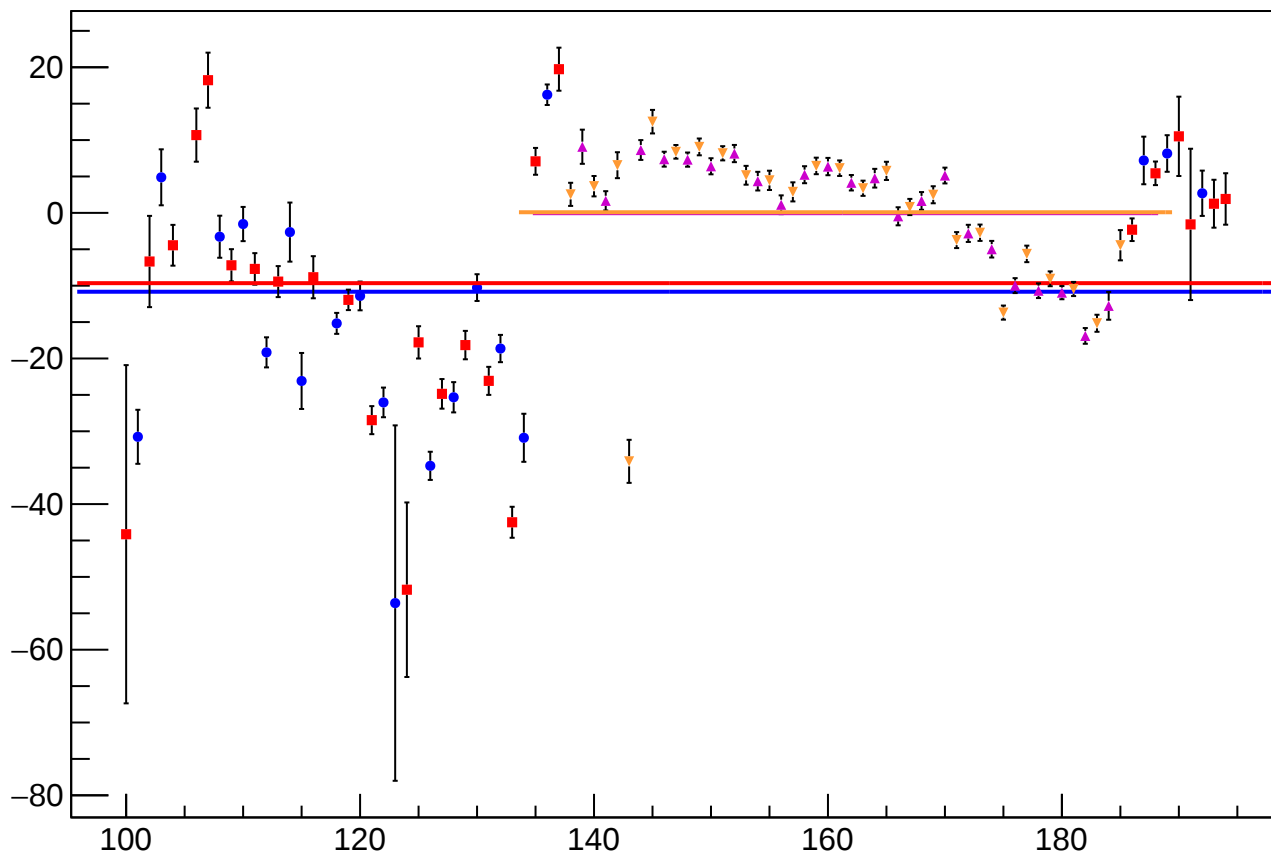
Right: -66.112+/-0.326 χ^2/NDF : 4577.2/44

In: -23.187+/-0.244 χ^2/NDF : 9639.2/42

Out: -31.587+/-0.221 χ^2/NDF : 19663.4/49

All: -27.813+/-0.164 χ^2/NDF : 29953.7/92

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.832 ± 0.512 χ^2/NDF : 896.9/19

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -9.653 ± 0.474 χ^2/NDF : 905.1/24

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

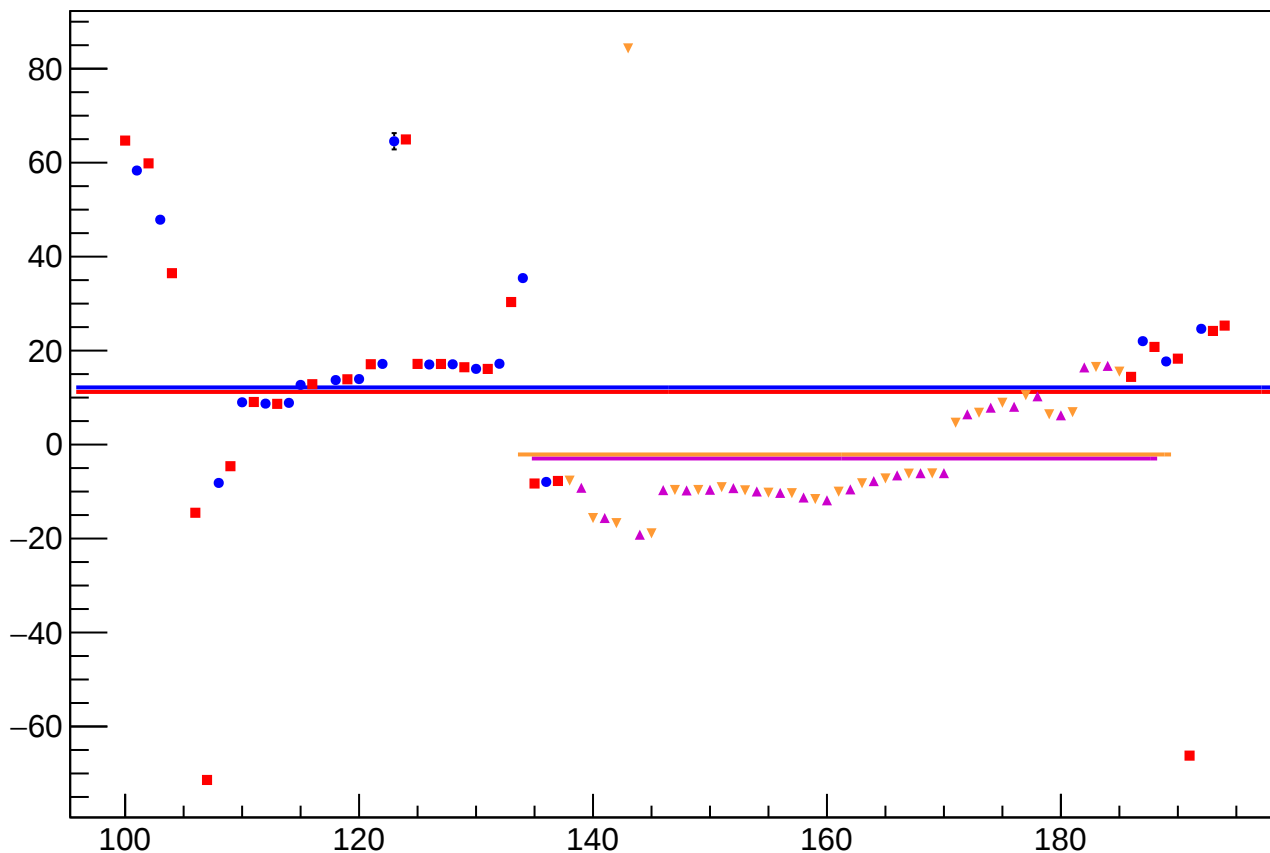
Right: -10.197 ± 0.348 χ^2/NDF : 1804.8/44

In: -2.028 ± 0.220 χ^2/NDF : 2287.4/42

Out: -1.880 ± 0.213 χ^2/NDF : 2414.9/49

All: -1.952 ± 0.153 χ^2/NDF : 4702.5/92

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 12.165 $\pm$ 0.028 χ^2 /NDF: 405392.5/19

Left Out: -2.105 $\pm$ 0.011 χ^2 /NDF:1093120.2/24

Right Out: 11.204 $\pm$ 0.026 χ^2 /NDF: 680470.0/24

Left In: -2.959 $\pm$ 0.011 χ^2 /NDF:763000.9/22

Left: -2.529 $\pm$ 0.008 χ^2 /NDF: 1859155.7/47

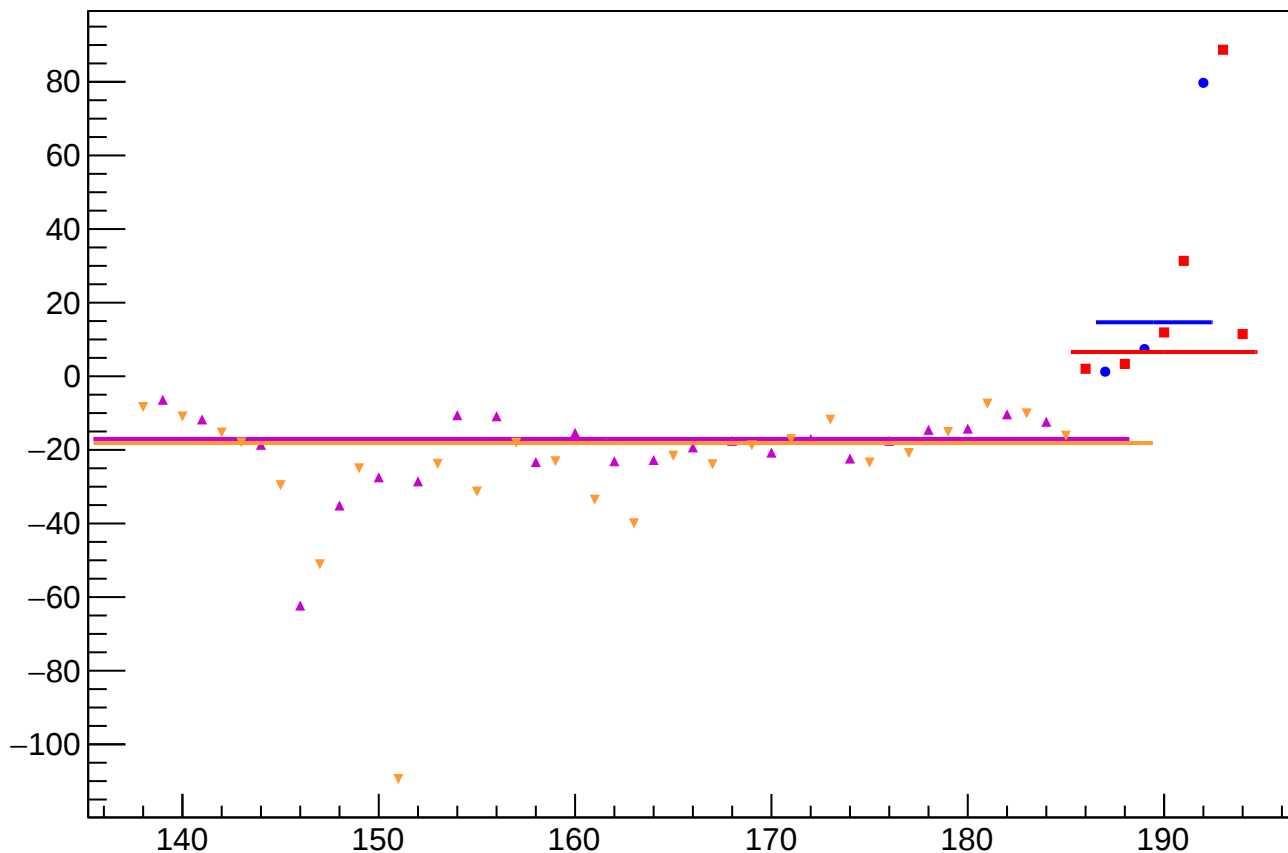
Right: 11.647 $\pm$ 0.019 χ^2 /NDF: 1086490.4/44

In: -0.956 $\pm$ 0.010 χ^2 /NDF:1418722.4/42

Out: -0.110 $\pm$ 0.010 χ^2 /NDF:1996146.2/49

All: -0.526 $\pm$ 0.007 χ^2 /NDF: 3418331.3/92

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.669 ± 0.174 $\chi^2/\text{NDF}: 21763.6/2$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 6.592 ± 0.087 $\chi^2/\text{NDF}: 24135.2/5$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

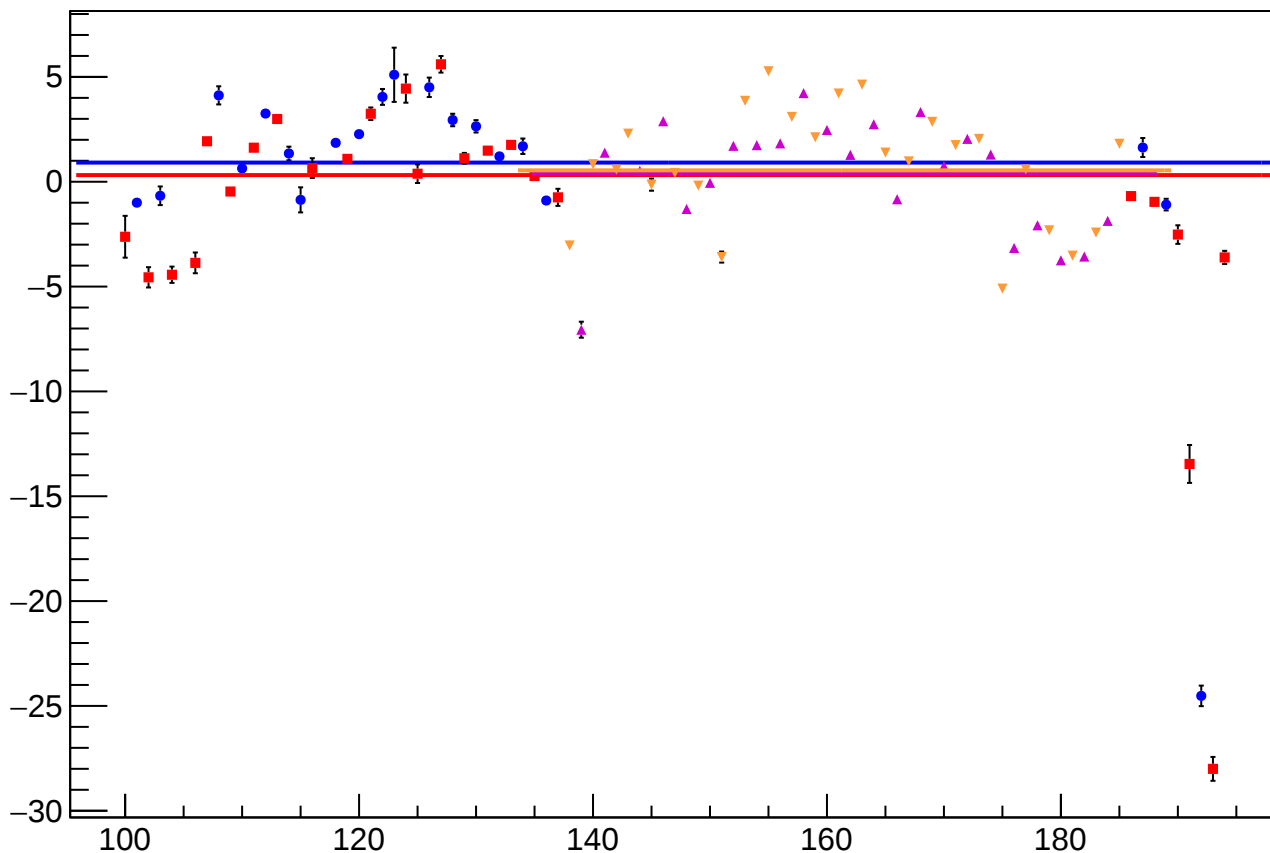
Right: 8.220 ± 0.078 $\chi^2/\text{NDF}: 47623.8/8$

In: -15.580 ± 0.037 $\chi^2/\text{NDF}: 97667.0/25$

Out: -14.030 ± 0.036 $\chi^2/\text{NDF}: 179580.6/30$

All: -14.768 ± 0.026 $\chi^2/\text{NDF}: 278153.5/56$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.914 ± 0.060 $\chi^2/\text{NDF}: 3451.1/19$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.317 ± 0.052 $\chi^2/\text{NDF}: 4094.2/24$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

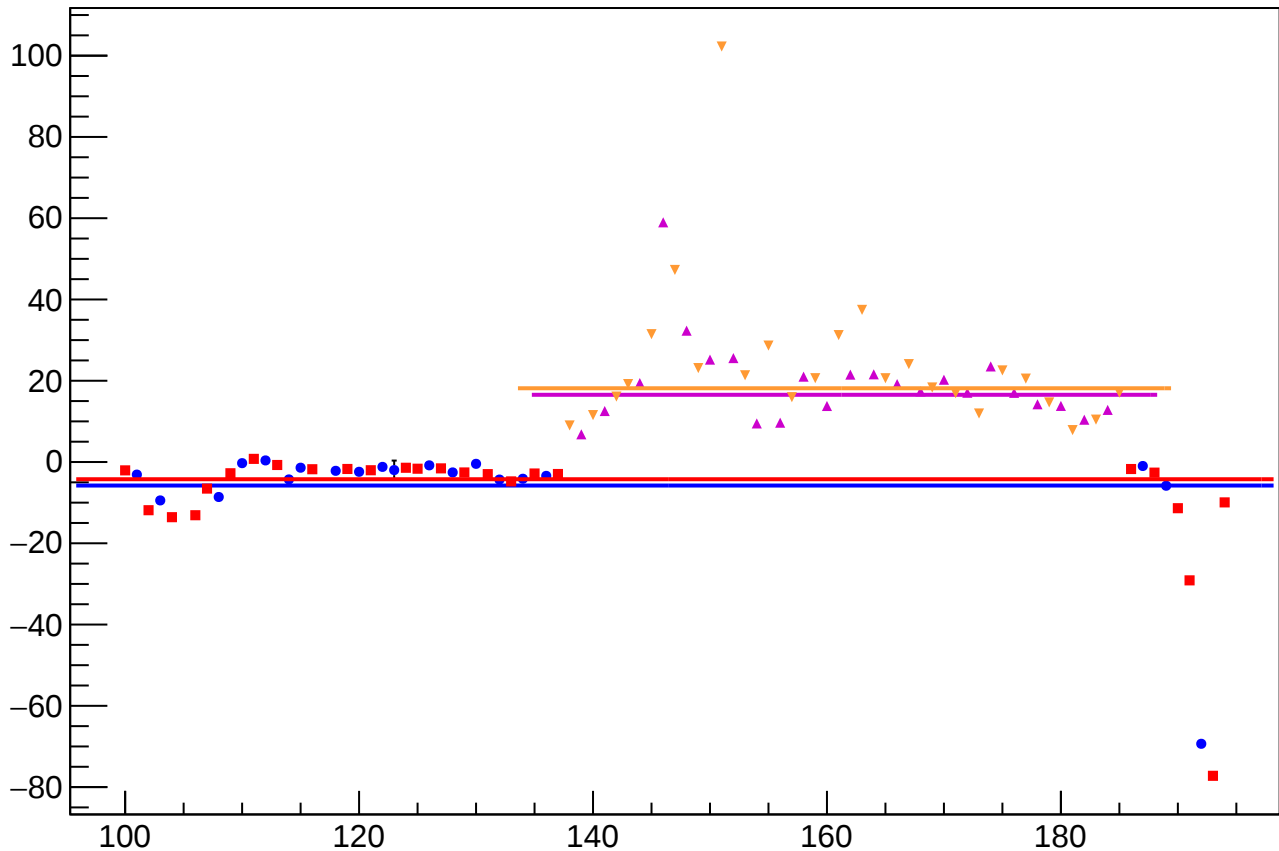
Right: 0.574 ± 0.039 $\chi^2/\text{NDF}: 7602.4/44$

In: 0.505 ± 0.027 $\chi^2/\text{NDF}: 9746.1/42$

Out: 0.480 ± 0.027 $\chi^2/\text{NDF}: 11193.2/49$

All: 0.493 ± 0.019 $\chi^2/\text{NDF}: 20939.7/92$

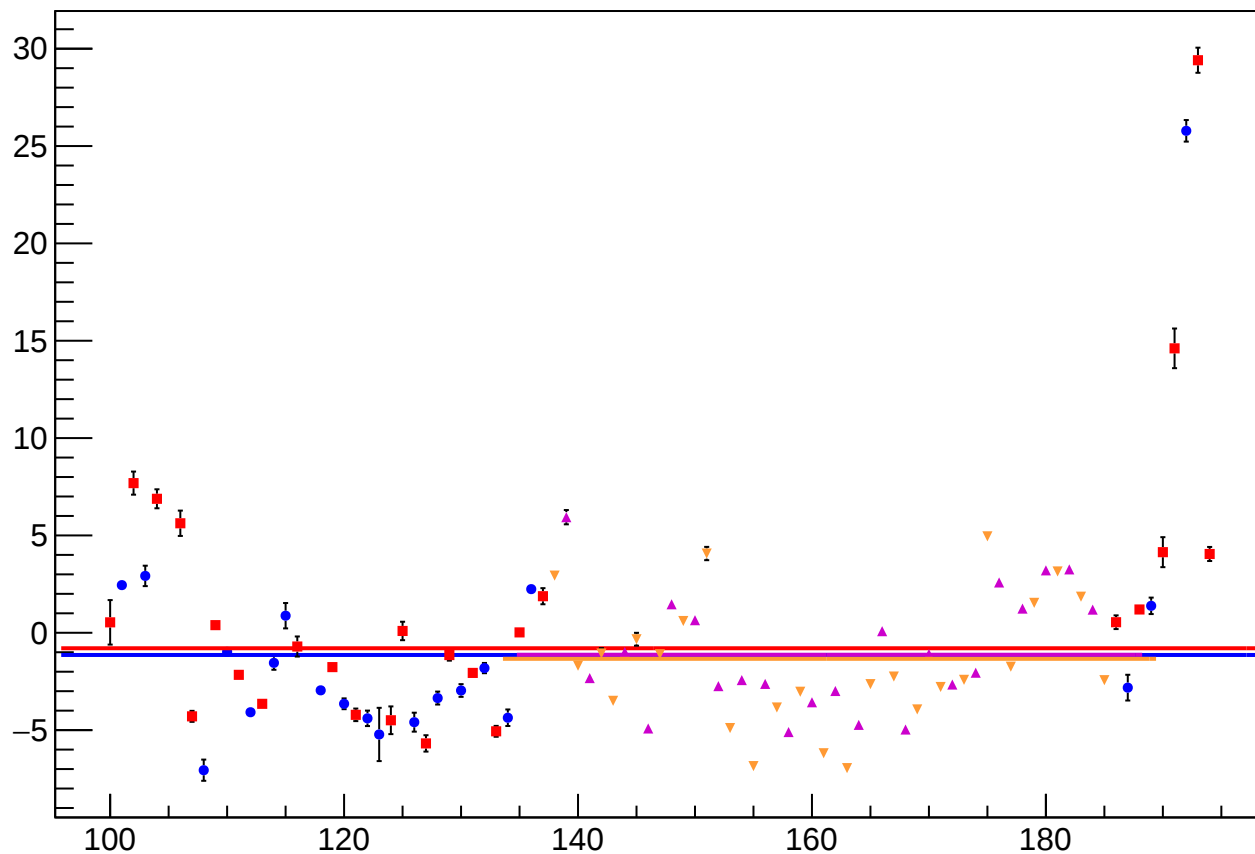
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.787 ± 0.089 $\chi^2/\text{NDF}: 25375.2/19$
 Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$
 Right Out: -4.237 ± 0.058 $\chi^2/\text{NDF}: 25938.2/24$
 Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$
 Right: -4.703 ± 0.049 $\chi^2/\text{NDF}: 51528.0/44$
 In: 13.106 ± 0.035 $\chi^2/\text{NDF}: 120063.3/42$
 Out: 11.158 ± 0.032 $\chi^2/\text{NDF}: 206207.5/49$
 All: 12.065 ± 0.024 $\chi^2/\text{NDF}: 327951.8/92$

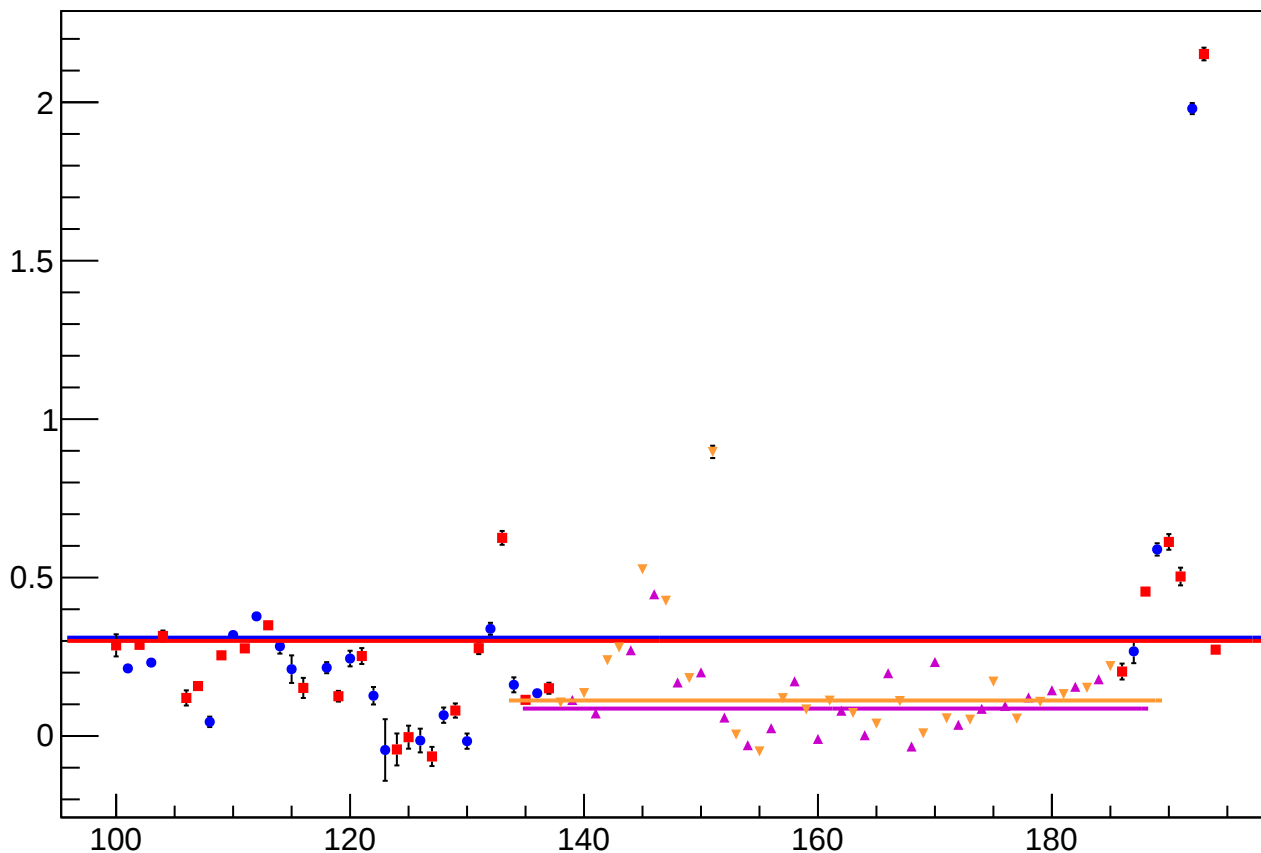
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.140 ± 0.069 χ^2/NDF : 3712.9/19
 Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24
 Right Out: -0.795 ± 0.061 χ^2/NDF : 4363.4/24
 Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47
 Right: -0.945 ± 0.046 χ^2/NDF : 8090.2/44
 In: -1.131 ± 0.031 χ^2/NDF : 10453.1/42
 Out: -1.198 ± 0.031 χ^2/NDF : 12365.4/49
 All: -1.164 ± 0.022 χ^2/NDF : 22820.8/92

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.310 $\pm$ 0.004 χ^2 /NDF: 10610.1/19

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.300 $\pm$ 0.003 χ^2 /NDF: 10466.0/24

Left In: 0.087 $\pm$ 0.002 χ^2 /NDF:3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8295.3/47

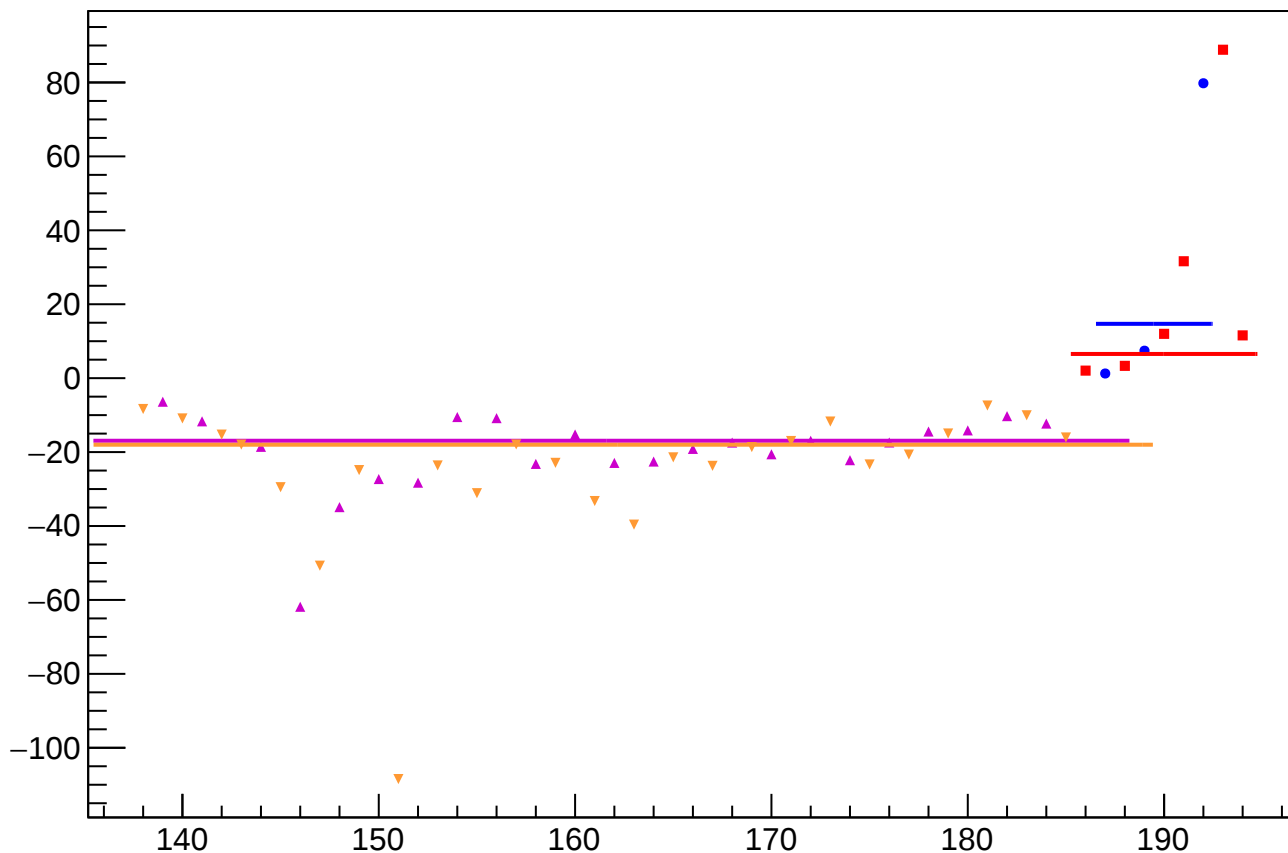
Right: 0.304 $\pm$ 0.003 χ^2 /NDF: 21080.0/44

In: 0.115 $\pm$ 0.001 χ^2 /NDF:17084.4/42

Out: 0.149 $\pm$ 0.001 χ^2 /NDF:17677.4/49

All: 0.132 $\pm$ 0.001 χ^2 /NDF: 35052.1/92

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



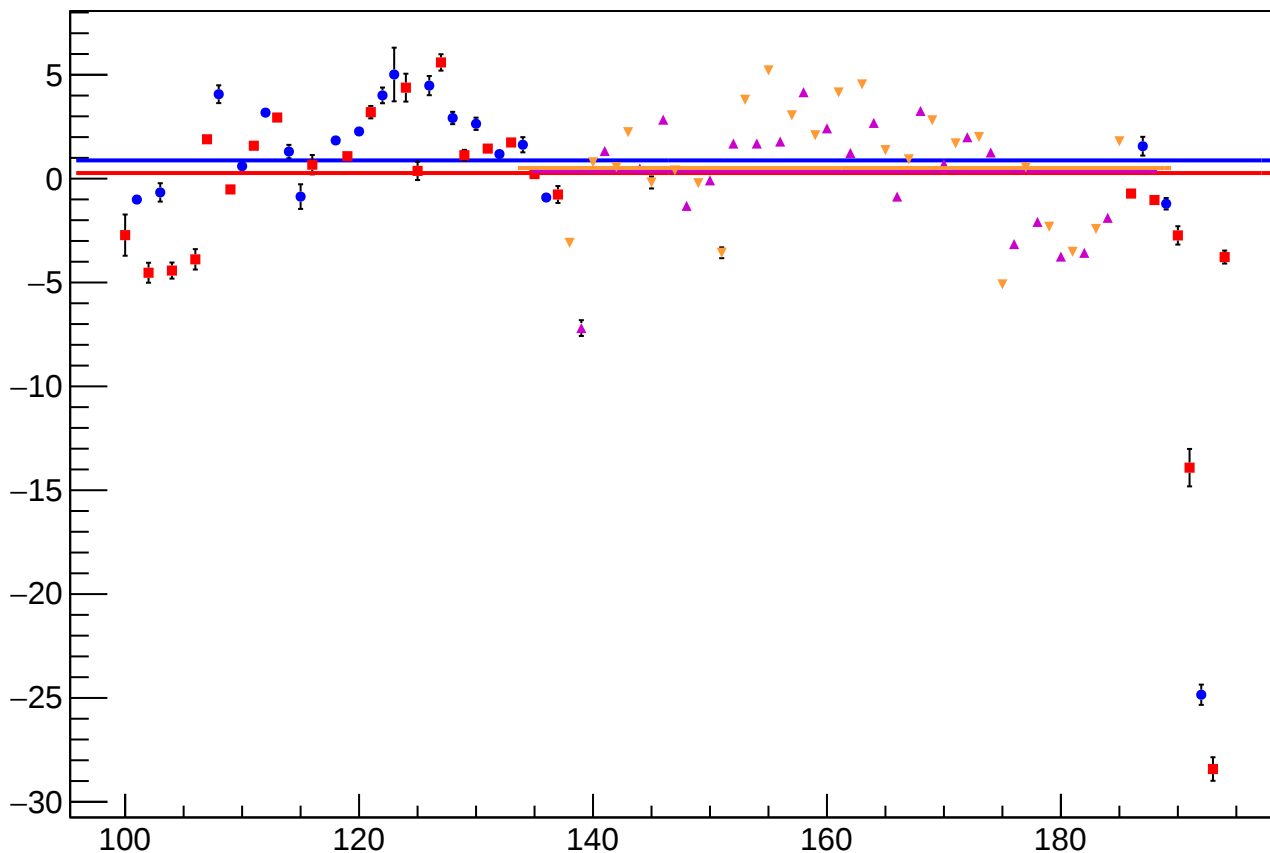
Right In: 14.699 $\pm$ 0.173 χ^2/NDF : 21937.8/2
 Left Out: -18.005 $\pm$ 0.039 χ^2/NDF : 88391.0/24
 Right Out: 6.549 $\pm$ 0.086 χ^2/NDF : 24491.7/5
 Left In: -16.934 $\pm$ 0.038 χ^2/NDF : 44060.6/22

Left: -17.459 $\pm$ 0.027 χ^2/NDF : 132843.0/47
 Right: 8.174 $\pm$ 0.077 χ^2/NDF : 48204.5/8

In: -15.486 $\pm$ 0.037 χ^2/NDF : 97872.3/25
 Out: -13.910 $\pm$ 0.035 χ^2/NDF : 180214.0/30

All: -14.660 $\pm$ 0.026 χ^2/NDF : 279036.2/56

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.879 ± 0.059 $\chi^2/\text{NDF}: 3537.9/19$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.270 ± 0.052 $\chi^2/\text{NDF}: 4231.3/24$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

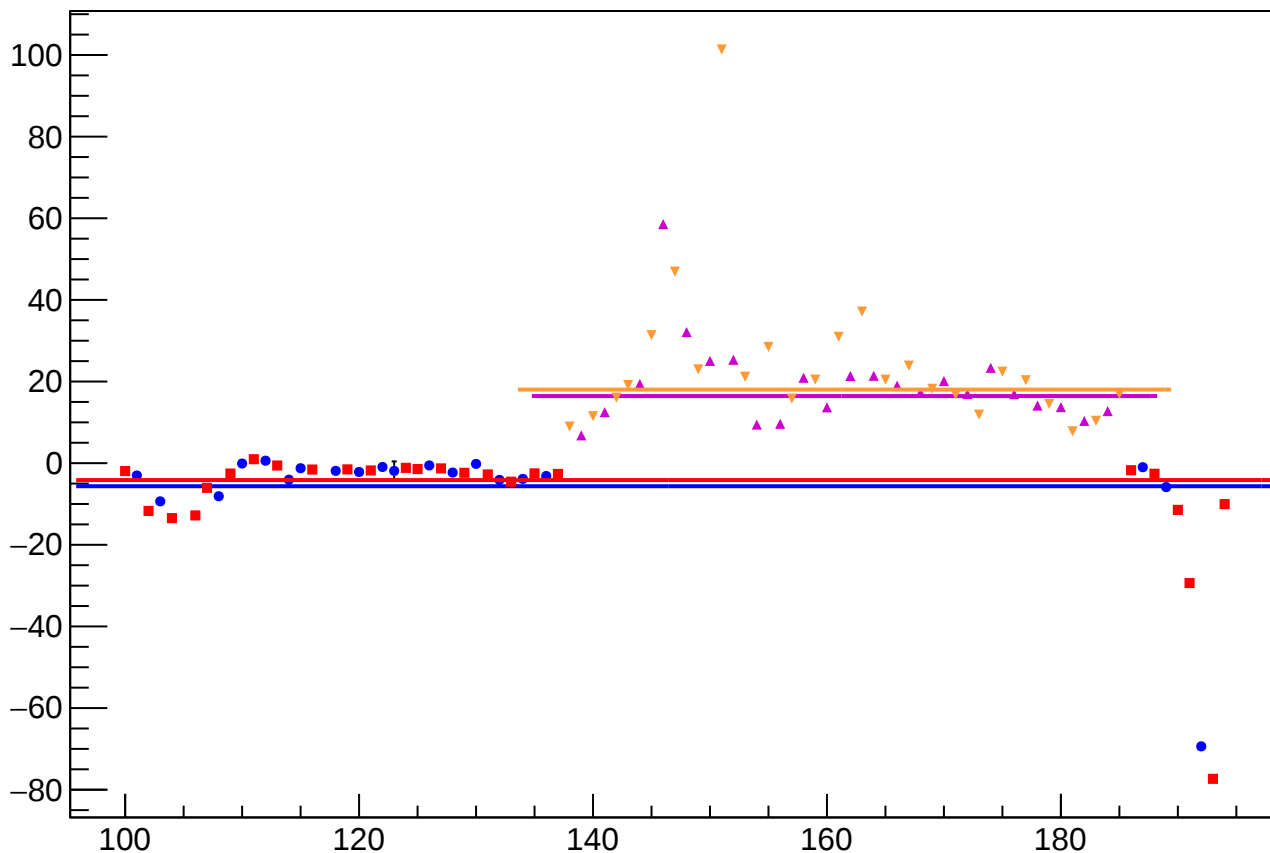
Right: 0.532 ± 0.039 $\chi^2/\text{NDF}: 7829.2/44$

In: 0.468 ± 0.027 $\chi^2/\text{NDF}: 9819.6/42$

Out: 0.444 ± 0.027 $\chi^2/\text{NDF}: 11317.5/49$

All: 0.456 ± 0.019 $\chi^2/\text{NDF}: 21137.4/92$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.650 ± 0.088 $\chi^2/\text{NDF}: 25716.4/19$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -4.142 ± 0.057 $\chi^2/\text{NDF}: 26371.0/24$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

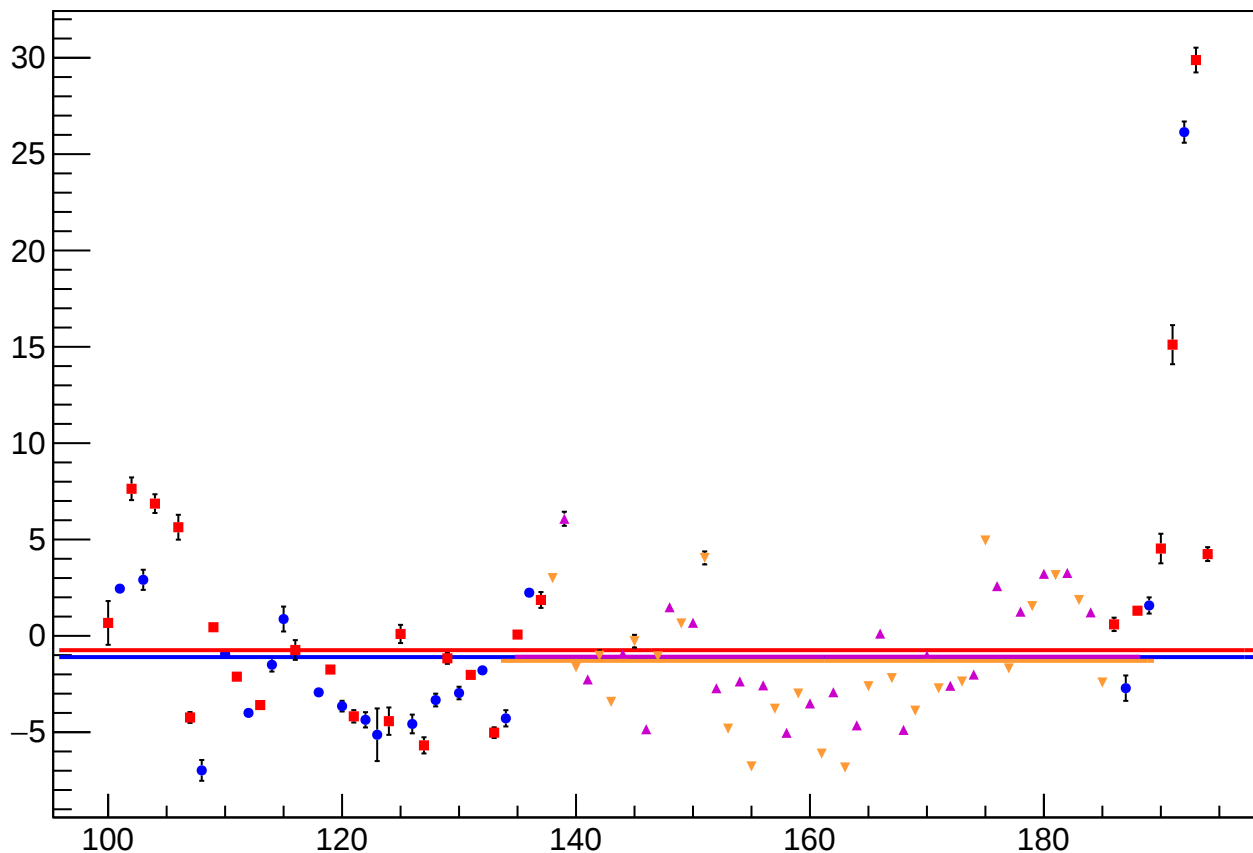
Right: -4.592 ± 0.048 $\chi^2/\text{NDF}: 52292.8/44$

In: 13.054 ± 0.035 $\chi^2/\text{NDF}: 119711.4/42$

Out: 11.085 ± 0.032 $\chi^2/\text{NDF}: 206210.2/49$

All: 12.000 ± 0.024 $\chi^2/\text{NDF}: 327663.3/92$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

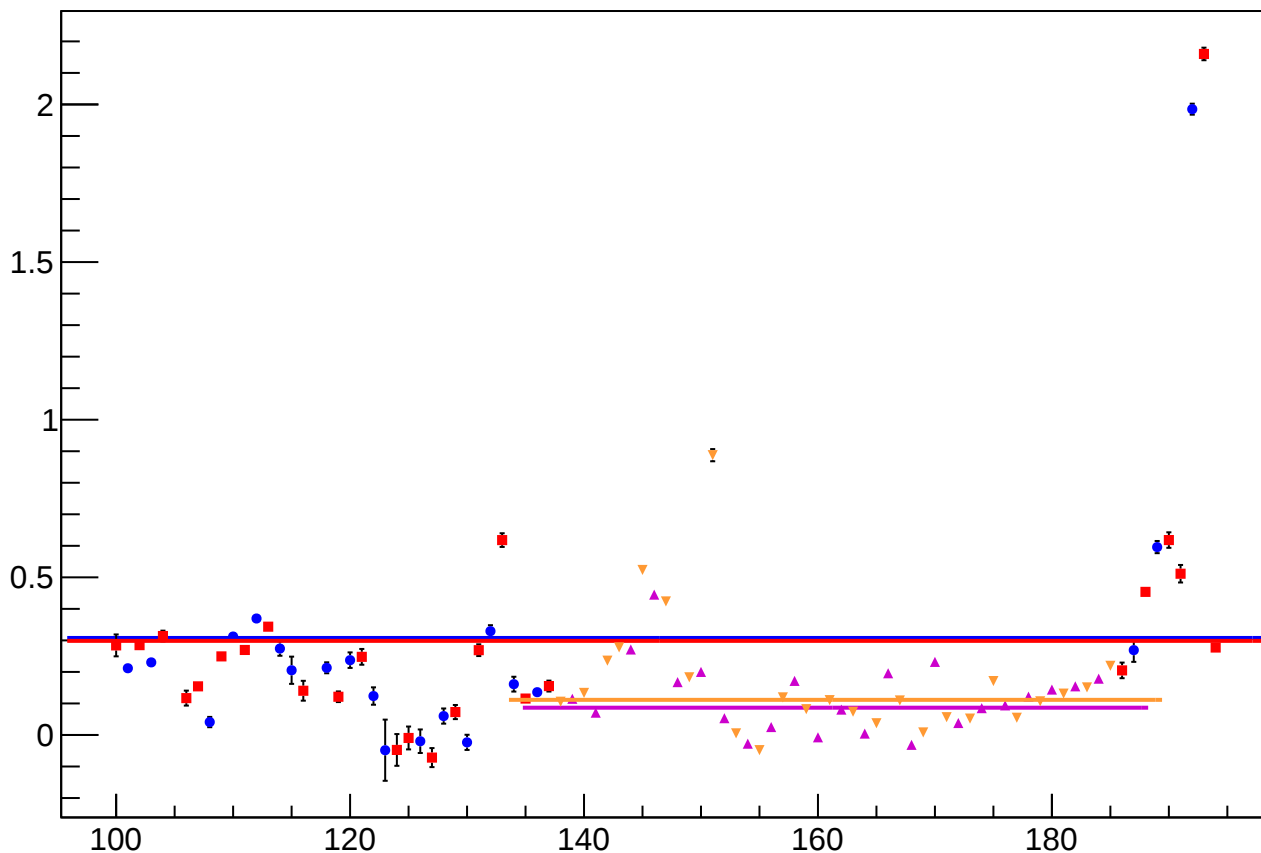


Right In: -1.102 ± 0.069 $\chi^2/\text{NDF}: 3789.0/19$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -0.743 ± 0.061 $\chi^2/\text{NDF}: 4497.4/24$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -0.899 ± 0.046 $\chi^2/\text{NDF}: 8301.7/44$
 In: -1.086 ± 0.030 $\chi^2/\text{NDF}: 10513.2/42$
 Out: -1.154 ± 0.031 $\chi^2/\text{NDF}: 12484.7/49$

All: -1.120 ± 0.022 $\chi^2/\text{NDF}: 23000.4/92$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.308 $\pm$ 0.004 χ^2 /NDF: 10775.0/19

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.299 $\pm$ 0.003 χ^2 /NDF: 10652.2/24

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3625.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8251.9/47

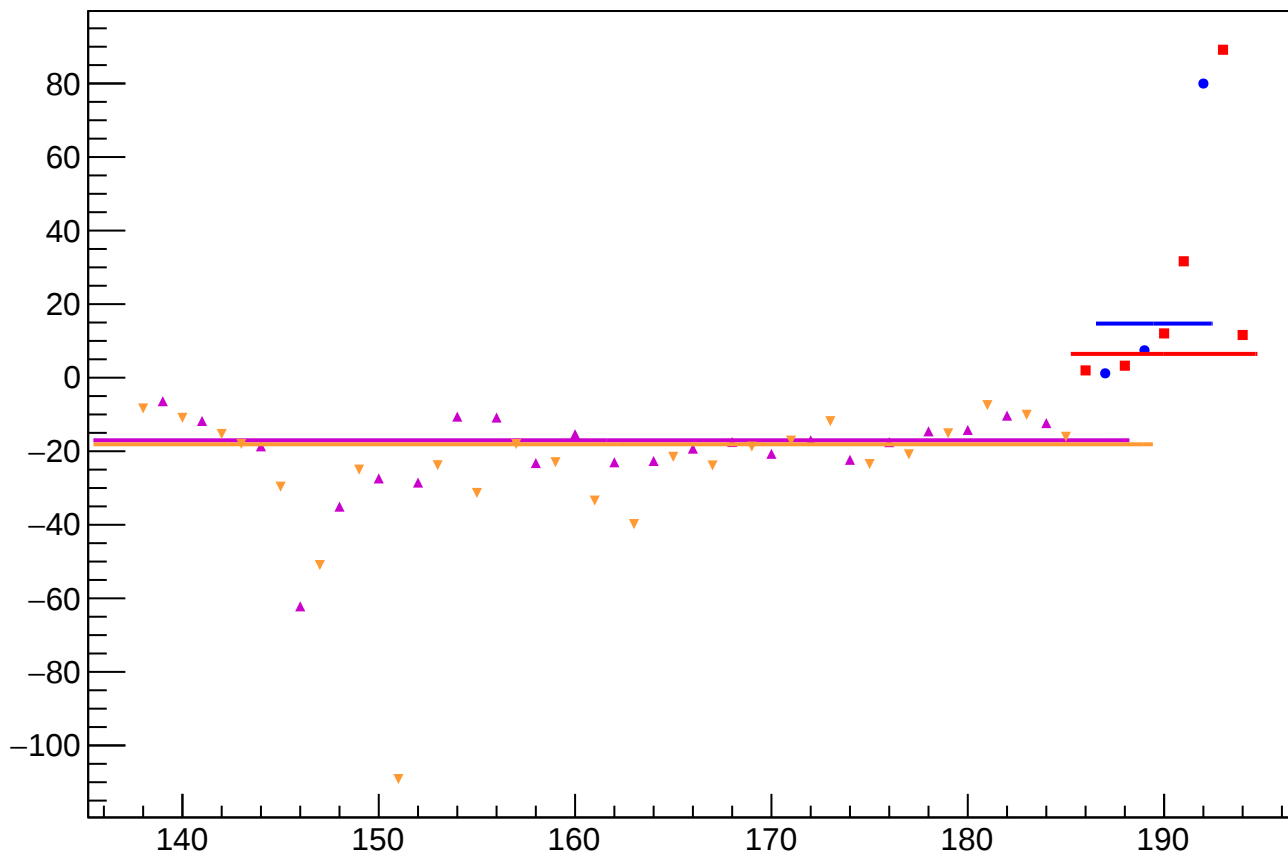
Right: 0.302 $\pm$ 0.002 χ^2 /NDF: 21430.4/44

In: 0.115 $\pm$ 0.001 χ^2 /NDF:17180.3/42

Out: 0.148 $\pm$ 0.001 χ^2 /NDF:17858.4/49

All: 0.131 $\pm$ 0.001 χ^2 /NDF: 35323.1/92

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.711+/-0.174 χ^2/NDF : 21935.0/2

Left Out: -18.112+/-0.039 χ^2/NDF : 88529.7/24

Right Out: 6.470+/-0.086 χ^2/NDF : 24521.8/5

Left In: -17.024+/-0.038 χ^2/NDF : 44141.8/22

Left: -17.557+/-0.027 χ^2/NDF : 133072.9/47

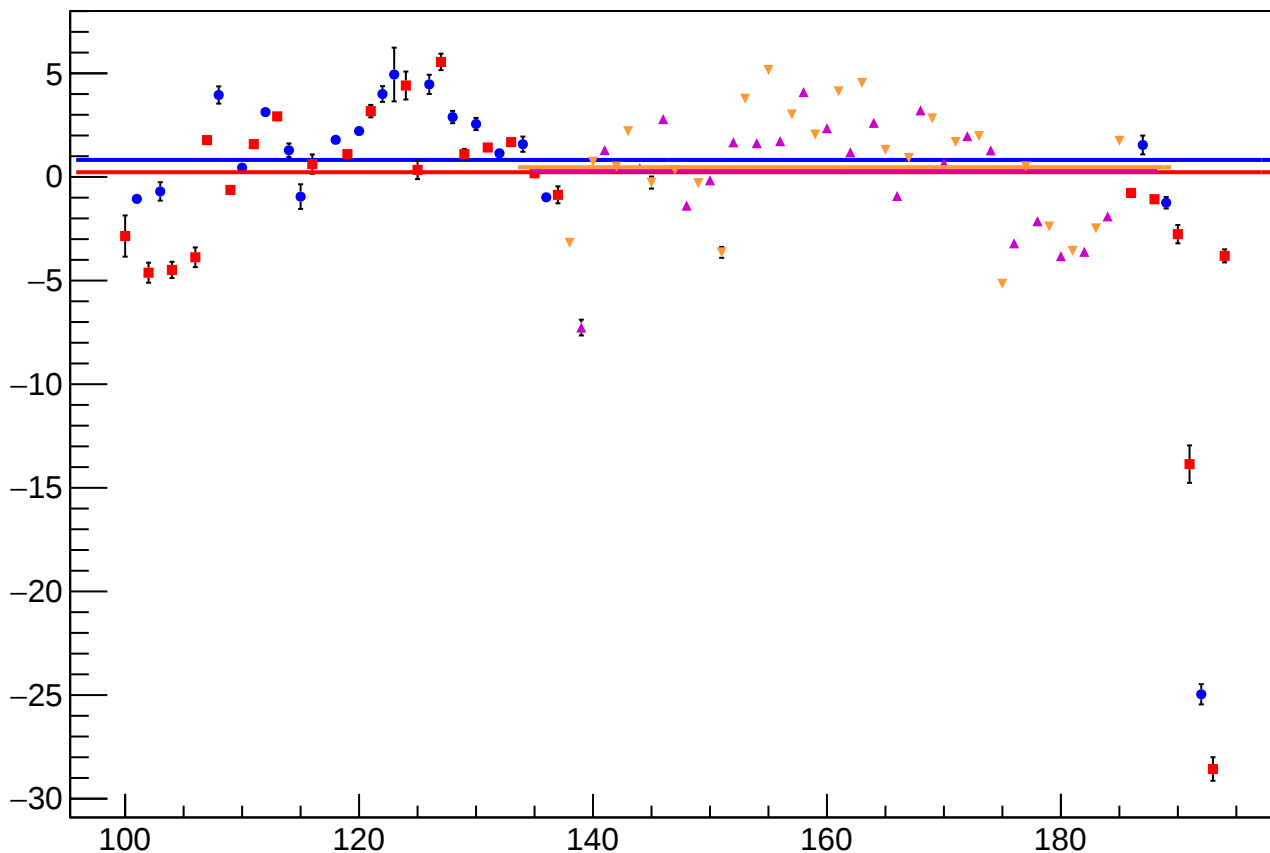
Right: 8.101+/-0.077 χ^2/NDF : 48261.6/8

In: -15.571+/-0.037 χ^2/NDF : 97912.2/25

Out: -13.978+/-0.035 χ^2/NDF : 180534.1/30

All: -14.736+/-0.026 χ^2/NDF : 279409.6/56

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.821 ± 0.060 χ^2/NDF : 3535.8/19

Left Out: 0.469 ± 0.032 χ^2/NDF : 7093.0/24

Right Out: 0.229 ± 0.052 χ^2/NDF : 4229.9/24

Left In: 0.311 ± 0.031 χ^2/NDF : 6183.1/22

Left: 0.386 ± 0.022 χ^2/NDF : 13288.8/47

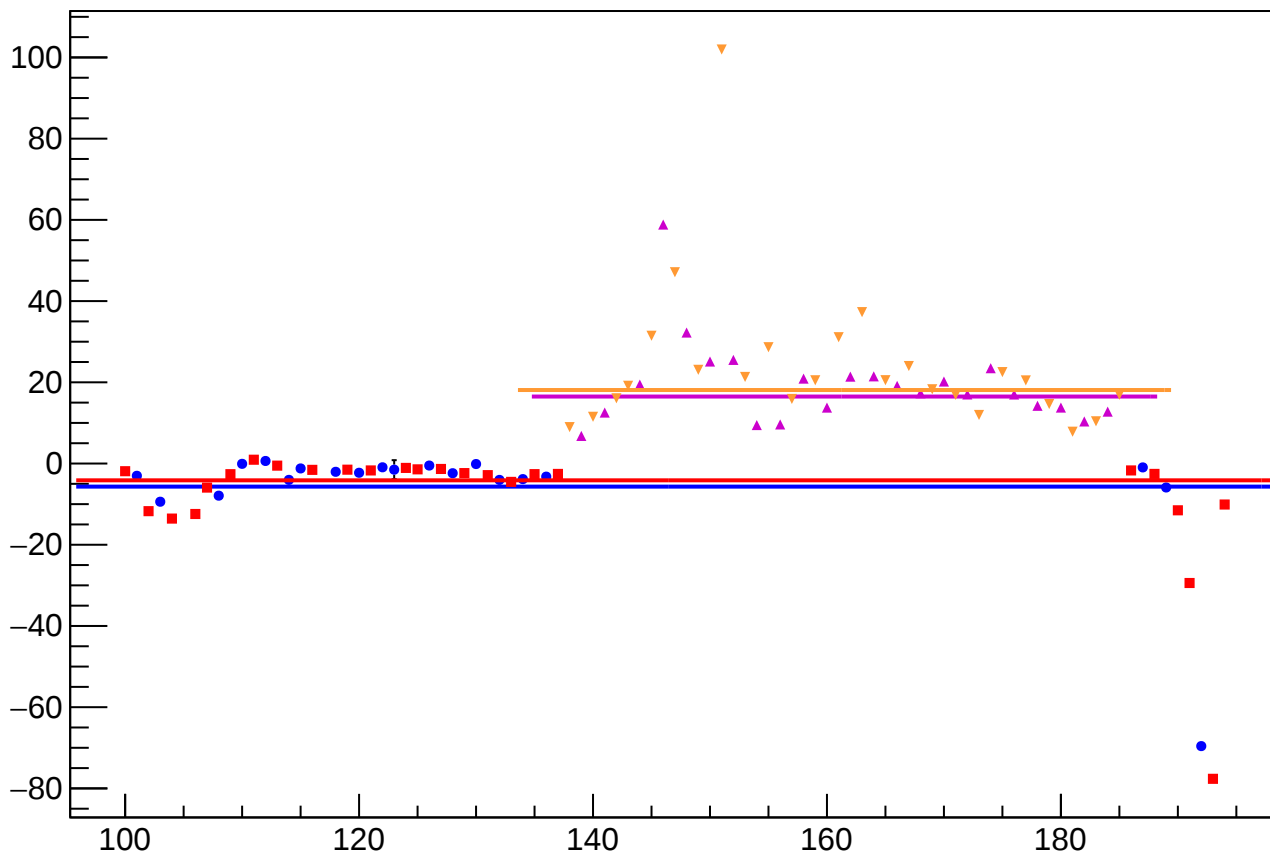
Right: 0.483 ± 0.039 χ^2/NDF : 7822.1/44

In: 0.417 ± 0.027 χ^2/NDF : 9776.9/42

Out: 0.402 ± 0.027 χ^2/NDF : 11338.5/49

All: 0.409 ± 0.019 χ^2/NDF : 21115.6/92

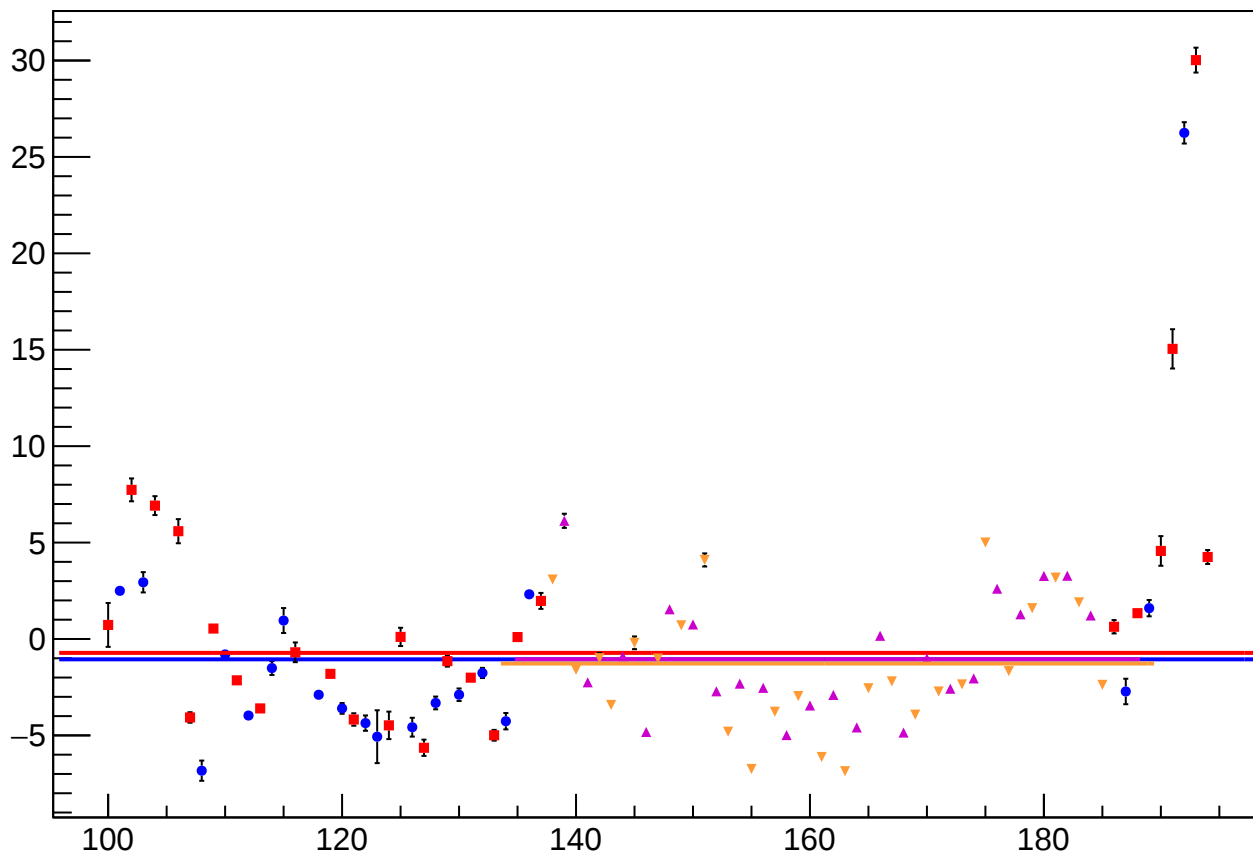
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.684 ± 0.089 $\chi^2/\text{NDF}: 25695.9/19$
 Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$
 Right Out: -4.136 ± 0.058 $\chi^2/\text{NDF}: 26361.4/24$
 Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$
 Right: -4.596 ± 0.048 $\chi^2/\text{NDF}: 52272.5/44$
 In: 13.099 ± 0.035 $\chi^2/\text{NDF}: 119704.5/42$
 Out: 11.106 ± 0.032 $\chi^2/\text{NDF}: 206526.5/49$
 All: 12.032 ± 0.024 $\chi^2/\text{NDF}: 328001.8/92$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

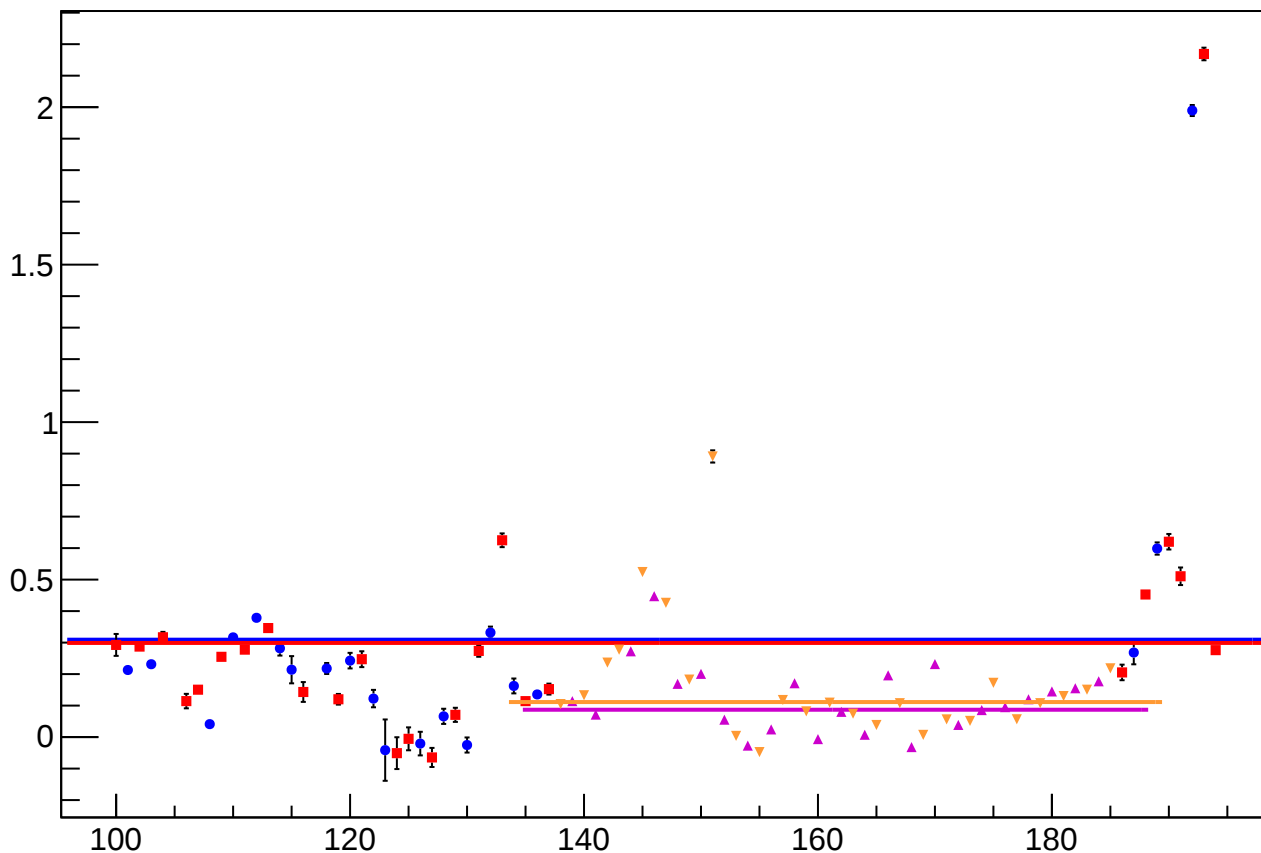


Right In: -1.056 ± 0.069 χ^2/NDF : 3788.2/19
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -0.721 ± 0.061 χ^2/NDF : 4498.5/24
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -0.866 ± 0.046 χ^2/NDF : 8299.9/44
 In: -1.051 ± 0.031 χ^2/NDF : 10461.6/42
 Out: -1.130 ± 0.031 χ^2/NDF : 12511.5/49

All: -1.091 ± 0.022 χ^2/NDF : 22976.4/92

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.309+/-0.004 χ^2/NDF : 10774.4/19

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.299+/-0.003 χ^2/NDF : 10674.0/24

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

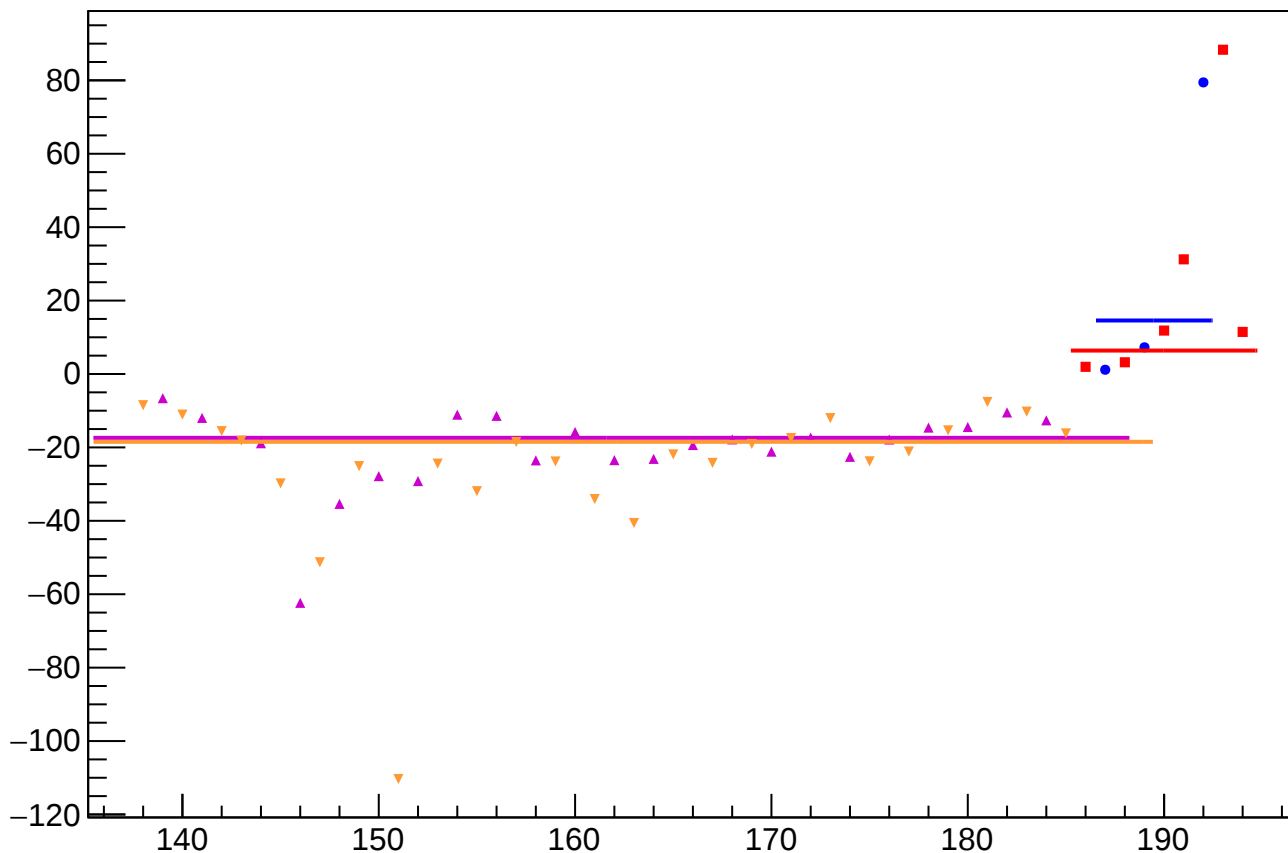
Right: 0.303+/-0.002 χ^2/NDF : 21452.5/44

In: 0.115+/-0.001 χ^2/NDF : 17163.5/42

Out: 0.148+/-0.001 χ^2/NDF : 17863.0/49

All: 0.131+/-0.001 χ^2/NDF : 35301.8/92

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.577+/-0.174 χ^2/NDF : 21562.9/2

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 6.384+/-0.087 χ^2/NDF : 24001.4/5

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

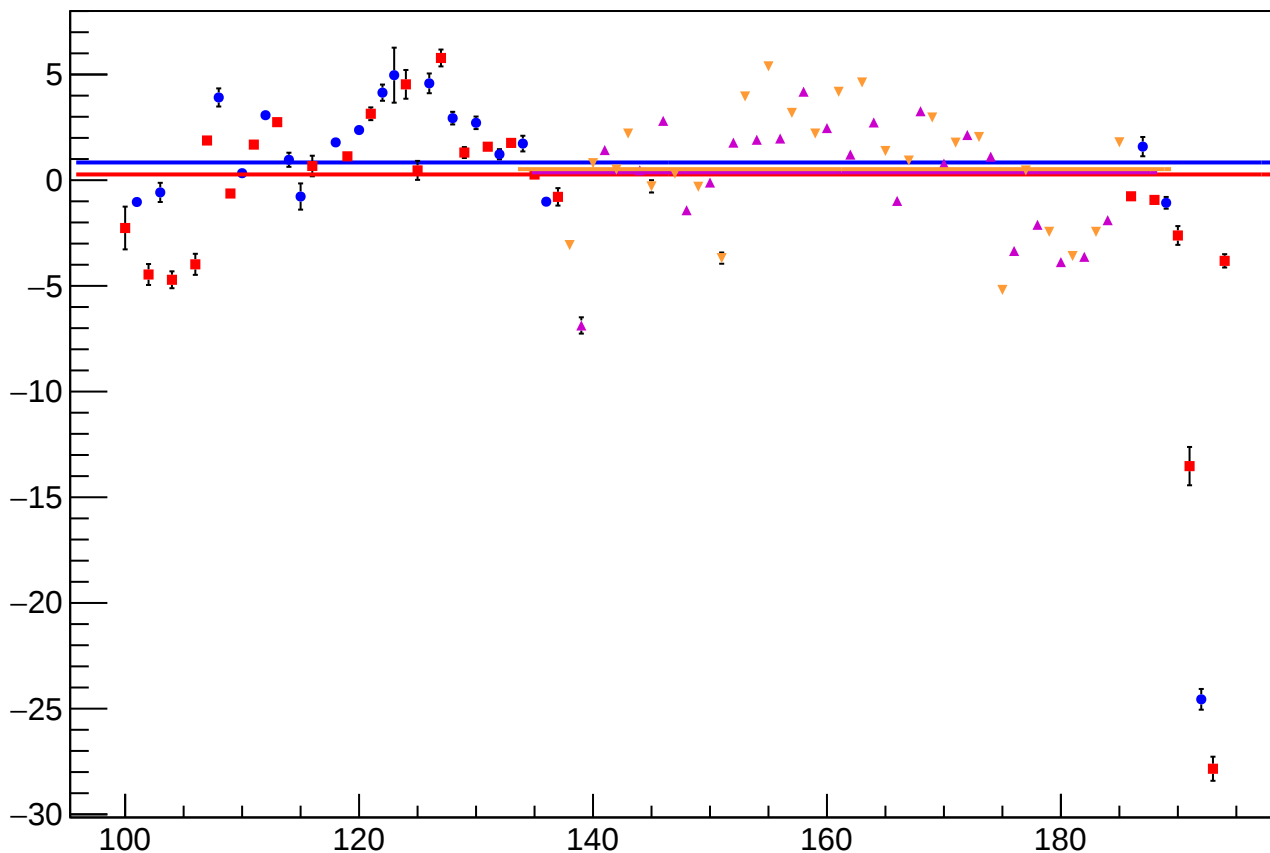
Right: 8.005+/-0.078 χ^2/NDF : 47336.5/8

In: -15.872+/-0.038 χ^2/NDF : 96776.5/25

Out: -14.158+/-0.036 χ^2/NDF : 180048.6/30

All: -14.970+/-0.026 χ^2/NDF : 277894.0/56

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.838 ± 0.061 $\chi^2/\text{NDF}: 3430.7/19$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.272 ± 0.053 $\chi^2/\text{NDF}: 4051.9/24$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

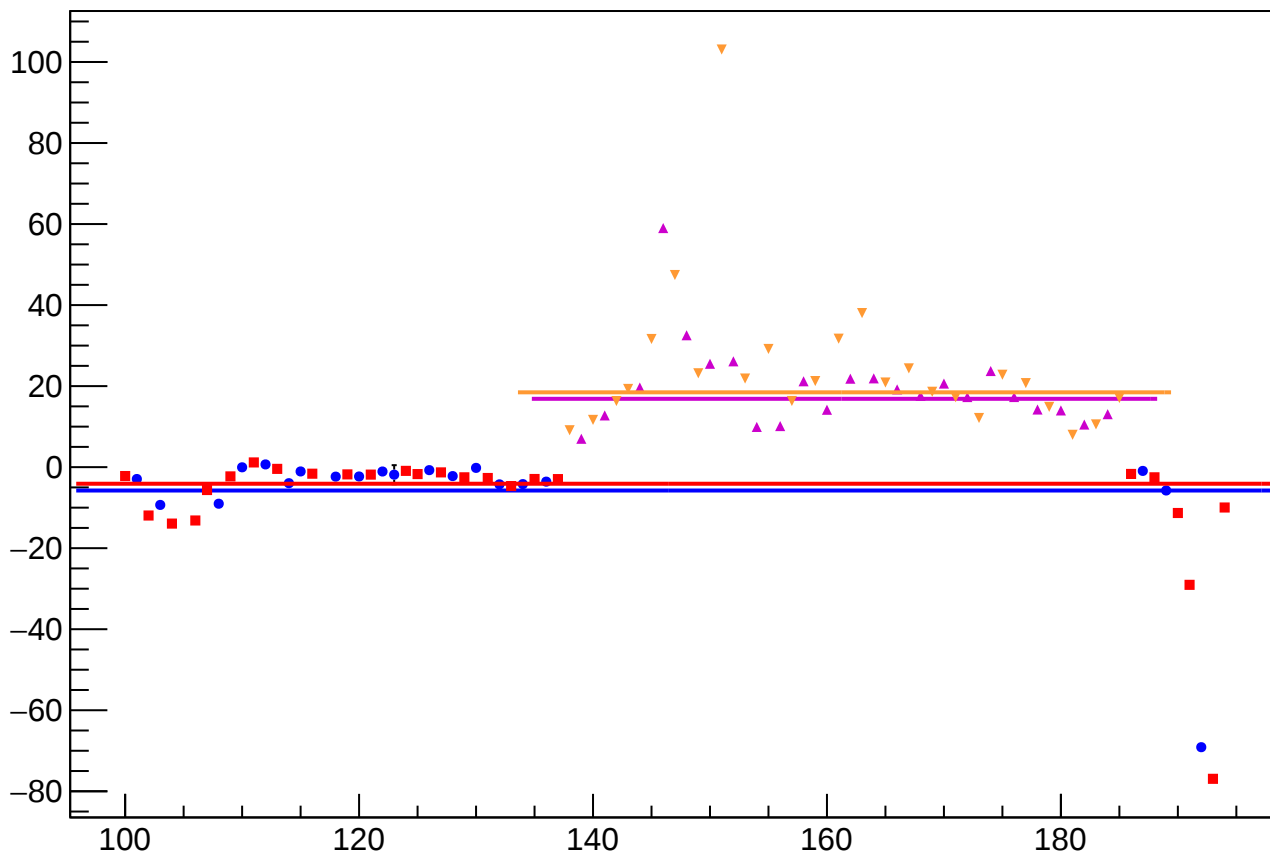
Right: 0.515 ± 0.040 $\chi^2/\text{NDF}: 7532.4/44$

In: 0.470 ± 0.028 $\chi^2/\text{NDF}: 9694.9/42$

Out: 0.451 ± 0.028 $\chi^2/\text{NDF}: 11123.2/49$

All: 0.461 ± 0.020 $\chi^2/\text{NDF}: 20818.3/92$

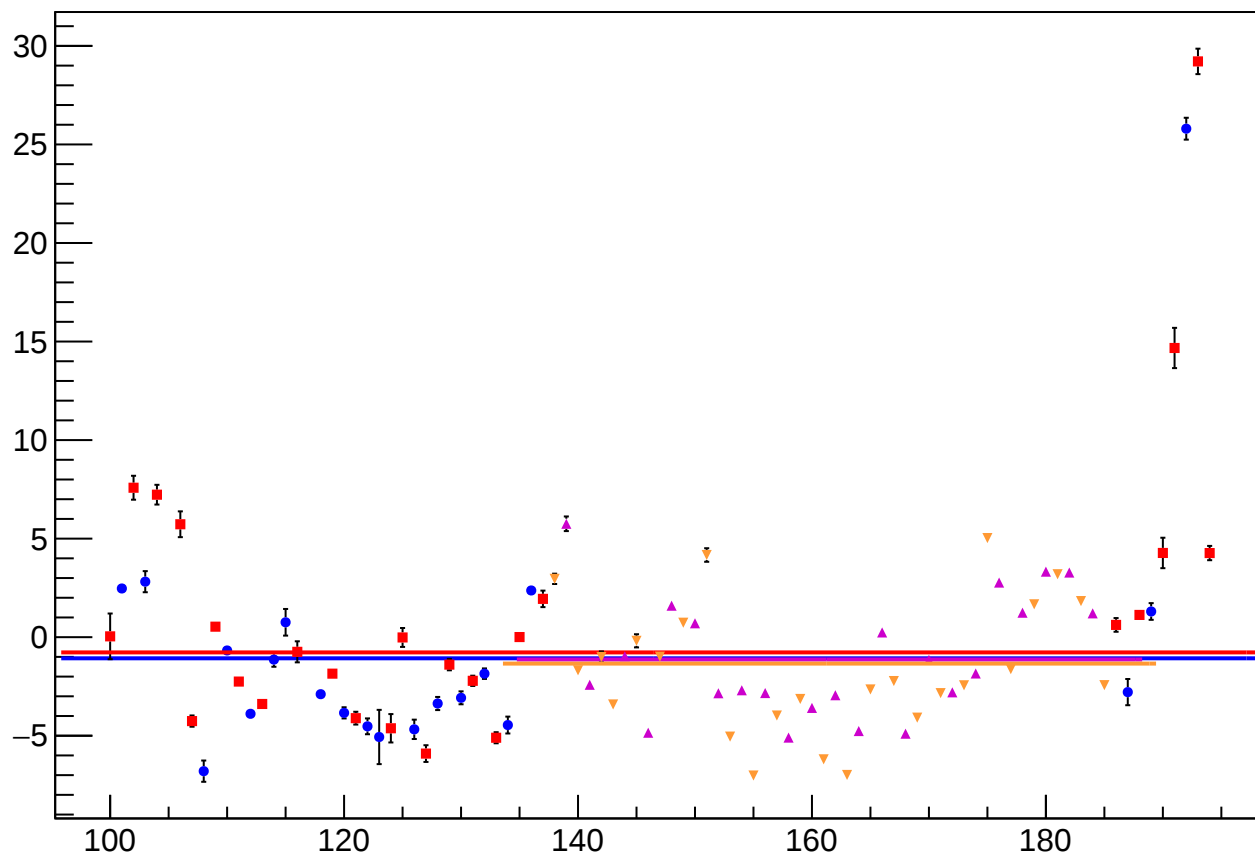
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.767 ± 0.090 $\chi^2/\text{NDF}: 25180.5/19$
 Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$
 Right Out: -4.095 ± 0.058 $\chi^2/\text{NDF}: 25837.7/24$
 Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$
 Right: -4.589 ± 0.049 $\chi^2/\text{NDF}: 51263.1/44$
 In: 13.332 ± 0.035 $\chi^2/\text{NDF}: 118750.7/42$
 Out: 11.236 ± 0.033 $\chi^2/\text{NDF}: 205626.7/49$
 All: 12.206 ± 0.024 $\chi^2/\text{NDF}: 326258.5/92$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.072 ± 0.071 χ^2/NDF : 3681.2/19

Left Out: -1.340 ± 0.037 χ^2/NDF : 7907.4/24

Right Out: -0.773 ± 0.062 χ^2/NDF : 4318.3/24

Left In: -1.132 ± 0.035 χ^2/NDF : 6708.5/22

Left: -1.231 ± 0.025 χ^2/NDF : 14632.9/47

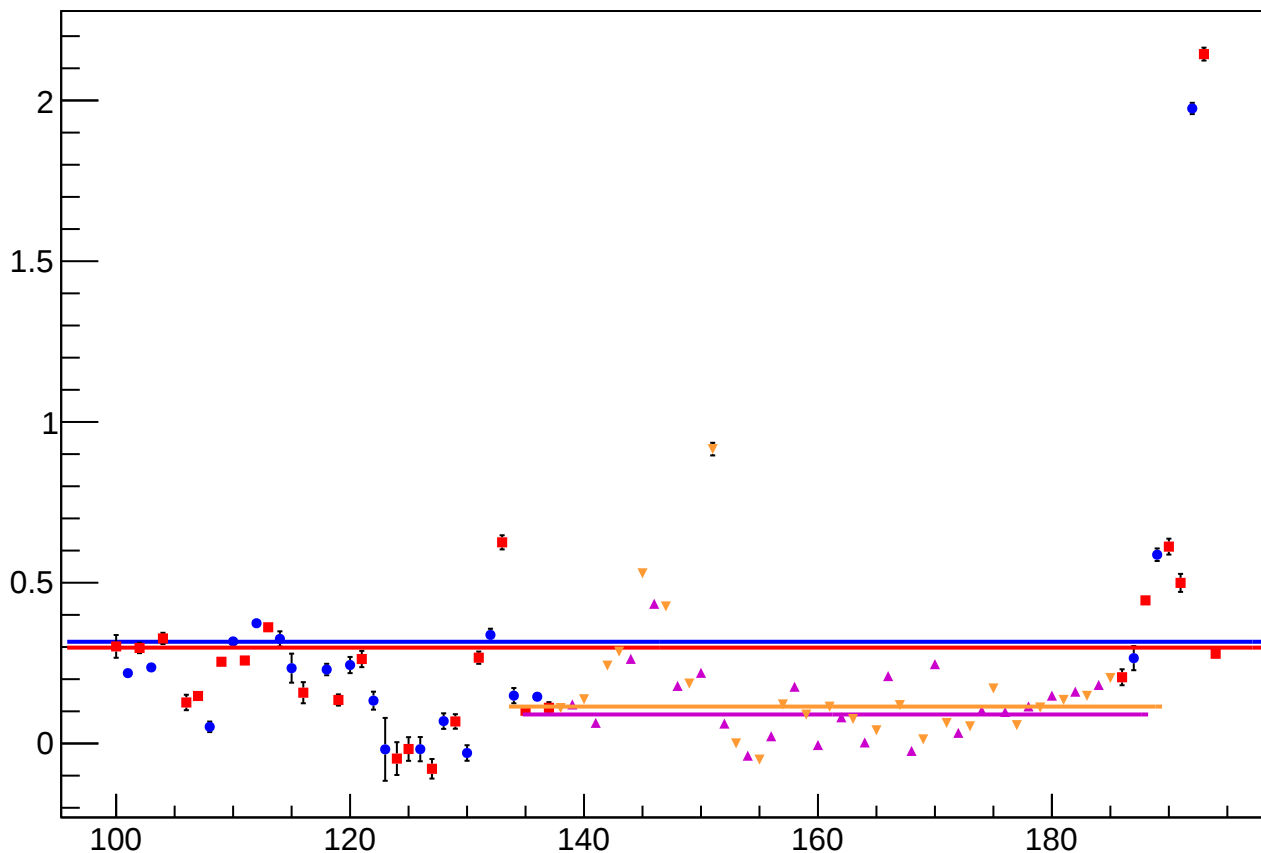
Right: -0.903 ± 0.046 χ^2/NDF : 8009.6/44

In: -1.120 ± 0.031 χ^2/NDF : 10390.3/42

Out: -1.193 ± 0.031 χ^2/NDF : 12288.0/49

All: -1.156 ± 0.022 χ^2/NDF : 22681.0/92

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.316 $\pm$ 0.004 χ^2 /NDF: 10428.0/19

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.298 $\pm$ 0.003 χ^2 /NDF: 10469.7/24

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

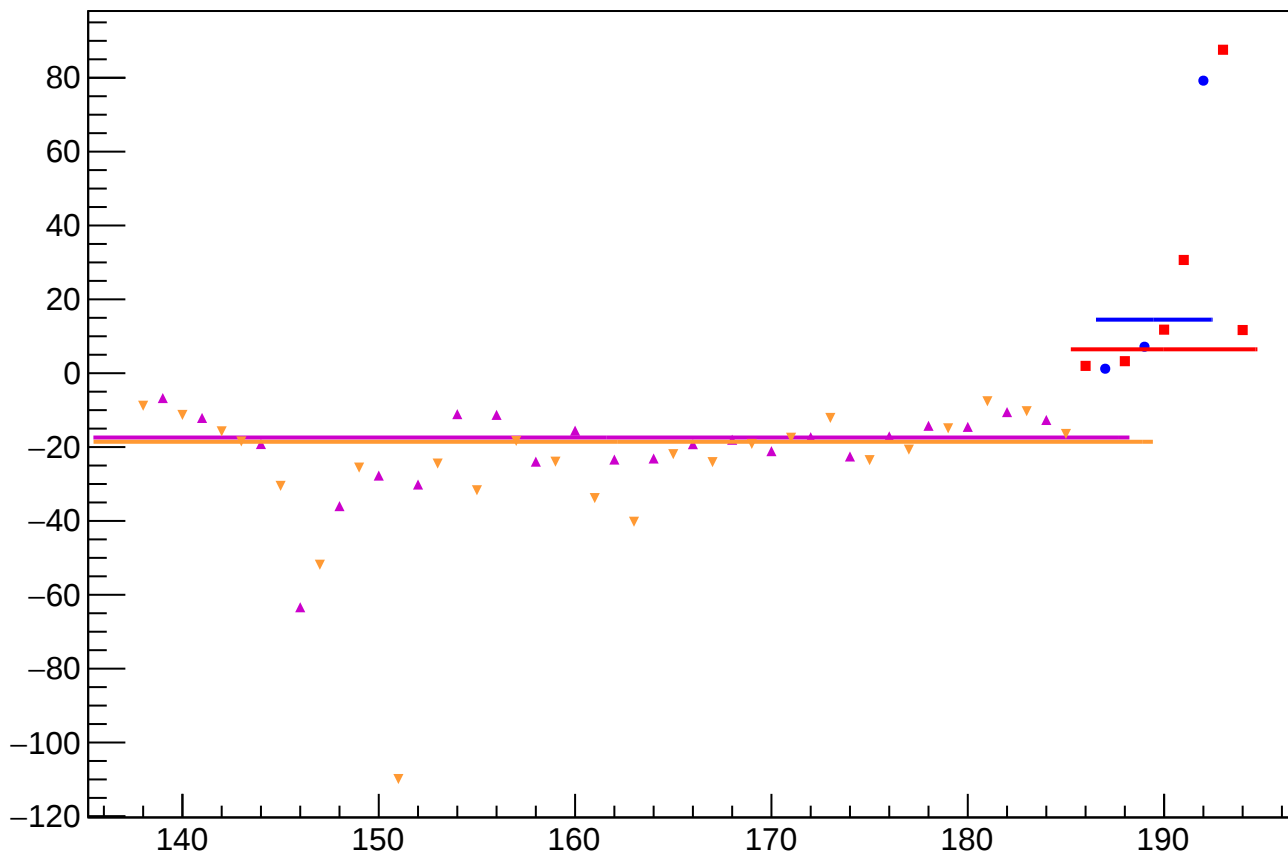
Right: 0.305 $\pm$ 0.003 χ^2 /NDF: 20910.1/44

In: 0.119 $\pm$ 0.001 χ^2 /NDF:16892.4/42

Out: 0.151 $\pm$ 0.001 χ^2 /NDF:17402.9/49

All: 0.135 $\pm$ 0.001 χ^2 /NDF: 34538.6/92

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.501 $\pm$ 0.175 χ^2 /NDF: 21235.1/2

Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF: 86389.6/24

Right Out: 6.468 $\pm$ 0.088 χ^2 /NDF: 23432.0/5

Left In: -17.414 $\pm$ 0.039 χ^2 /NDF: 43504.1/22

Left: -17.979 $\pm$ 0.028 χ^2 /NDF: 130314.7/47

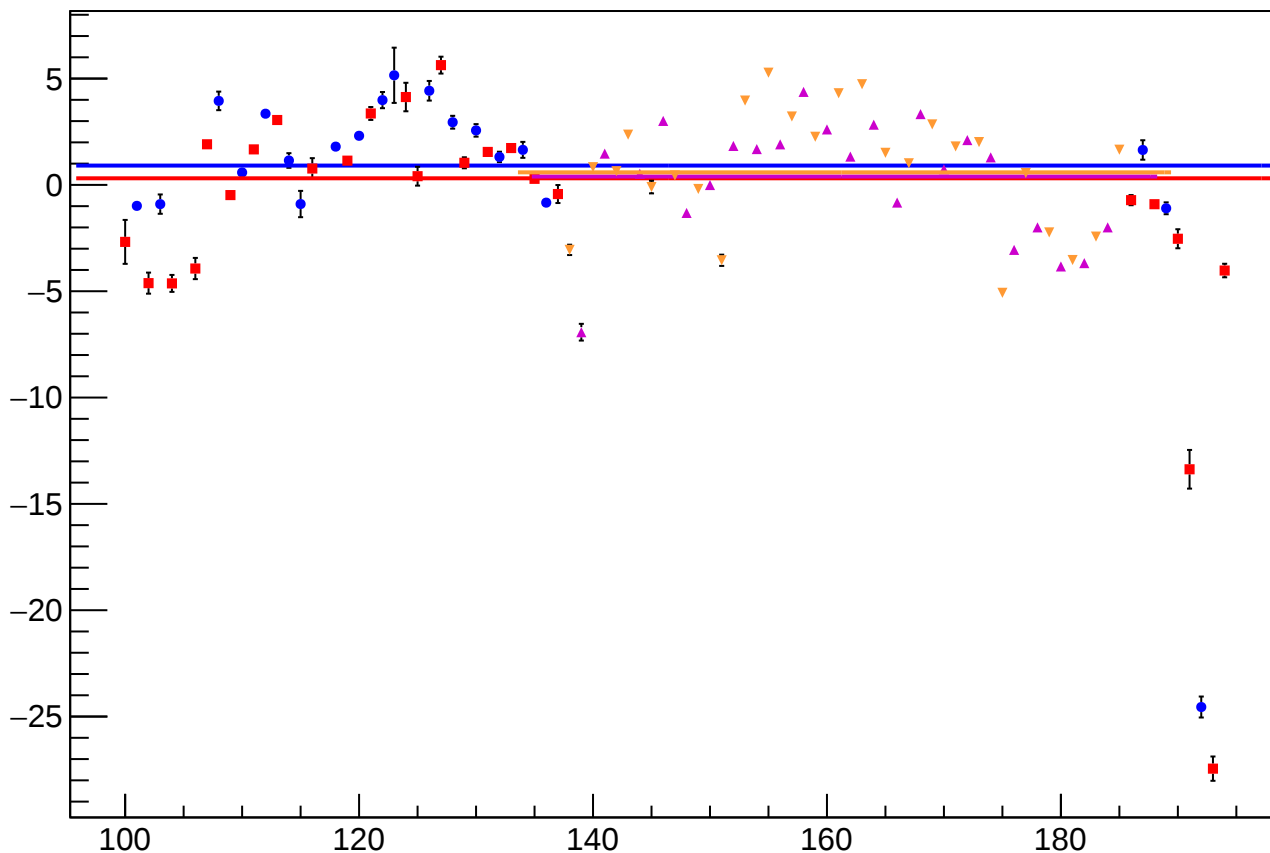
Right: 8.075 $\pm$ 0.078 χ^2 /NDF: 46352.0/8

In: -15.882 $\pm$ 0.038 χ^2 /NDF: 96392.7/25

Out: -14.224 $\pm$ 0.036 χ^2 /NDF: 177423.9/30

All: -15.011 $\pm$ 0.026 χ^2 /NDF: 274798.2/56

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.909 ± 0.061 $\chi^2/\text{NDF}: 3387.1/19$

Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$

Right Out: 0.310 ± 0.053 $\chi^2/\text{NDF}: 3981.9/24$

Left In: 0.394 ± 0.032 $\chi^2/\text{NDF}: 6059.8/22$

Left: 0.488 ± 0.023 $\chi^2/\text{NDF}: 12874.6/47$

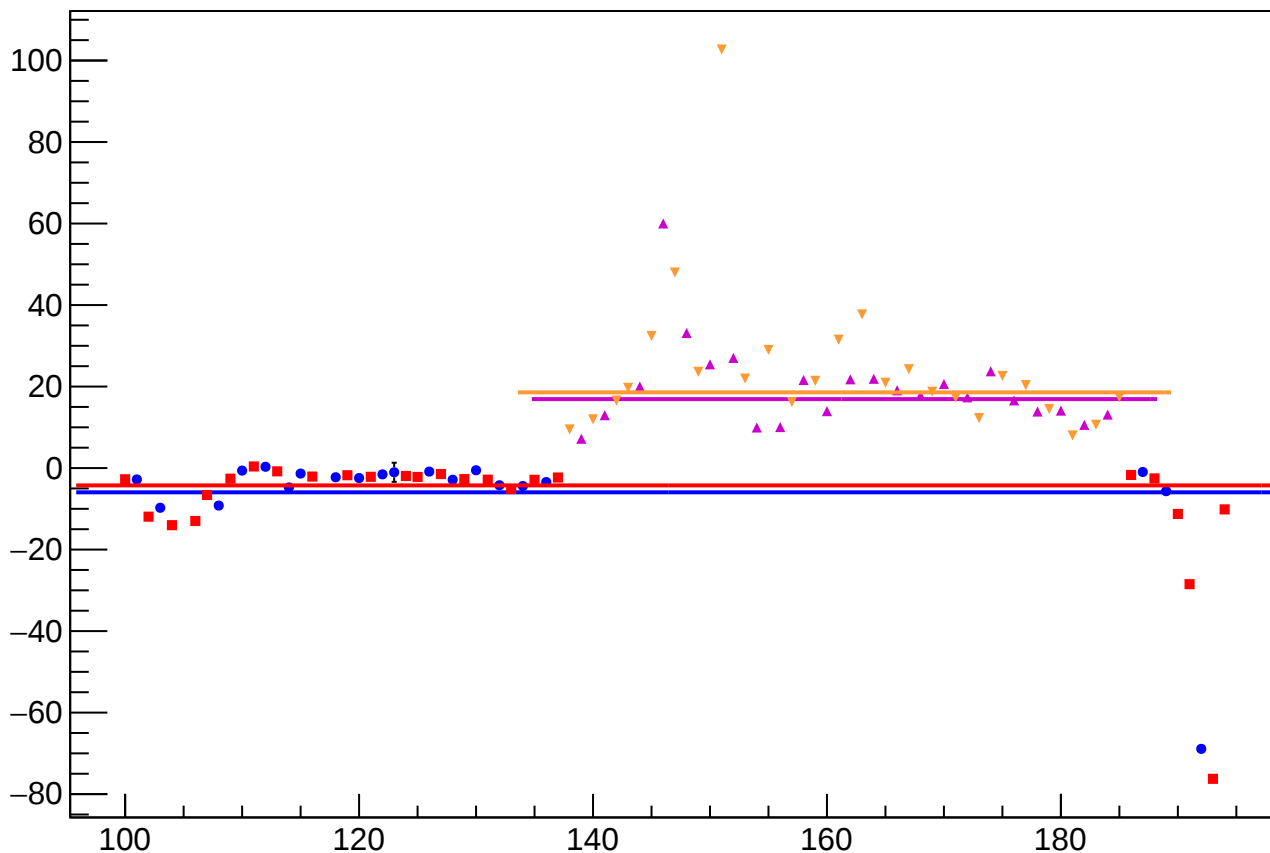
Right: 0.568 ± 0.040 $\chi^2/\text{NDF}: 7423.5/44$

In: 0.503 ± 0.028 $\chi^2/\text{NDF}: 9502.7/42$

Out: 0.512 ± 0.028 $\chi^2/\text{NDF}: 10798.4/49$

All: 0.507 ± 0.020 $\chi^2/\text{NDF}: 20301.1/92$

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.948 ± 0.091 $\chi^2/\text{NDF}: 24563.1/19$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.251 ± 0.059 $\chi^2/\text{NDF}: 25070.2/24$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

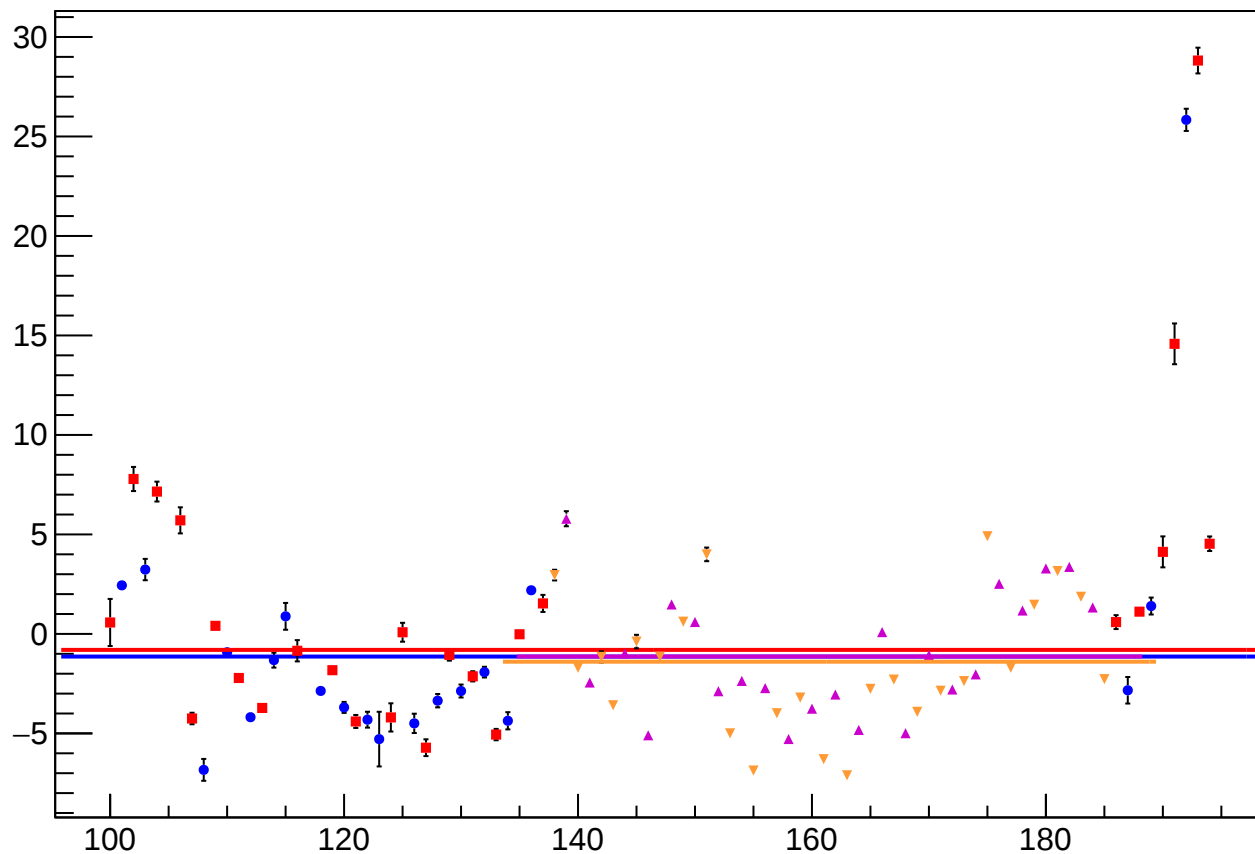
Right: -4.756 ± 0.049 $\chi^2/\text{NDF}: 49879.8/44$

In: 13.359 ± 0.036 $\chi^2/\text{NDF}: 118487.7/42$

Out: 11.310 ± 0.033 $\chi^2/\text{NDF}: 203366.7/49$

All: 12.260 ± 0.024 $\chi^2/\text{NDF}: 323615.9/92$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

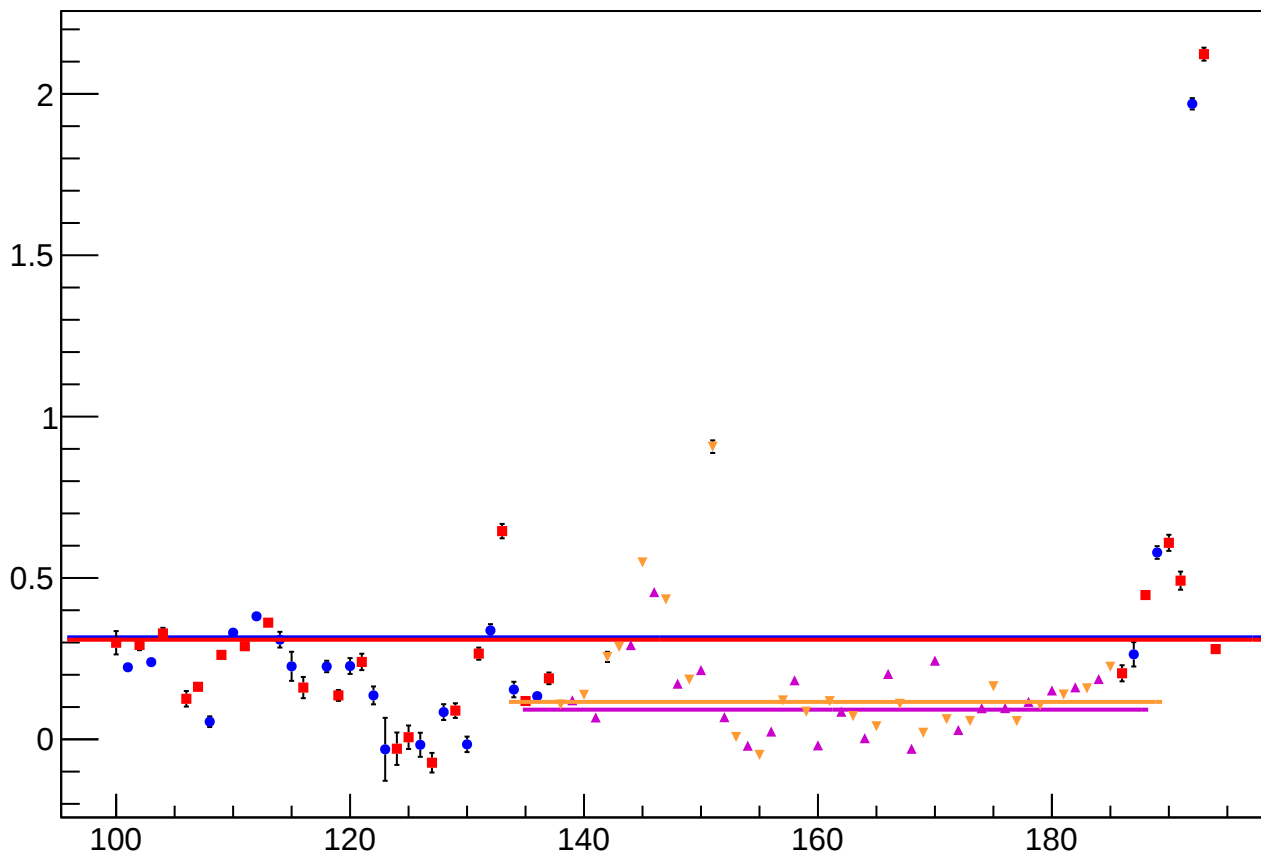


Right In: -1.138 ± 0.071 $\chi^2/\text{NDF}: 3624.2/19$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.803 ± 0.063 $\chi^2/\text{NDF}: 4244.6/24$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.949 ± 0.047 $\chi^2/\text{NDF}: 7881.3/44$
 In: -1.135 ± 0.032 $\chi^2/\text{NDF}: 10221.9/42$
 Out: -1.243 ± 0.032 $\chi^2/\text{NDF}: 11962.8/49$

All: -1.189 ± 0.022 $\chi^2/\text{NDF}: 22190.5/92$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.316 $\pm$ 0.004 χ^2 /NDF: 10264.8/19

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF: 4463.0/24

Right Out: 0.309 $\pm$ 0.003 χ^2 /NDF: 9978.3/24

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF: 3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

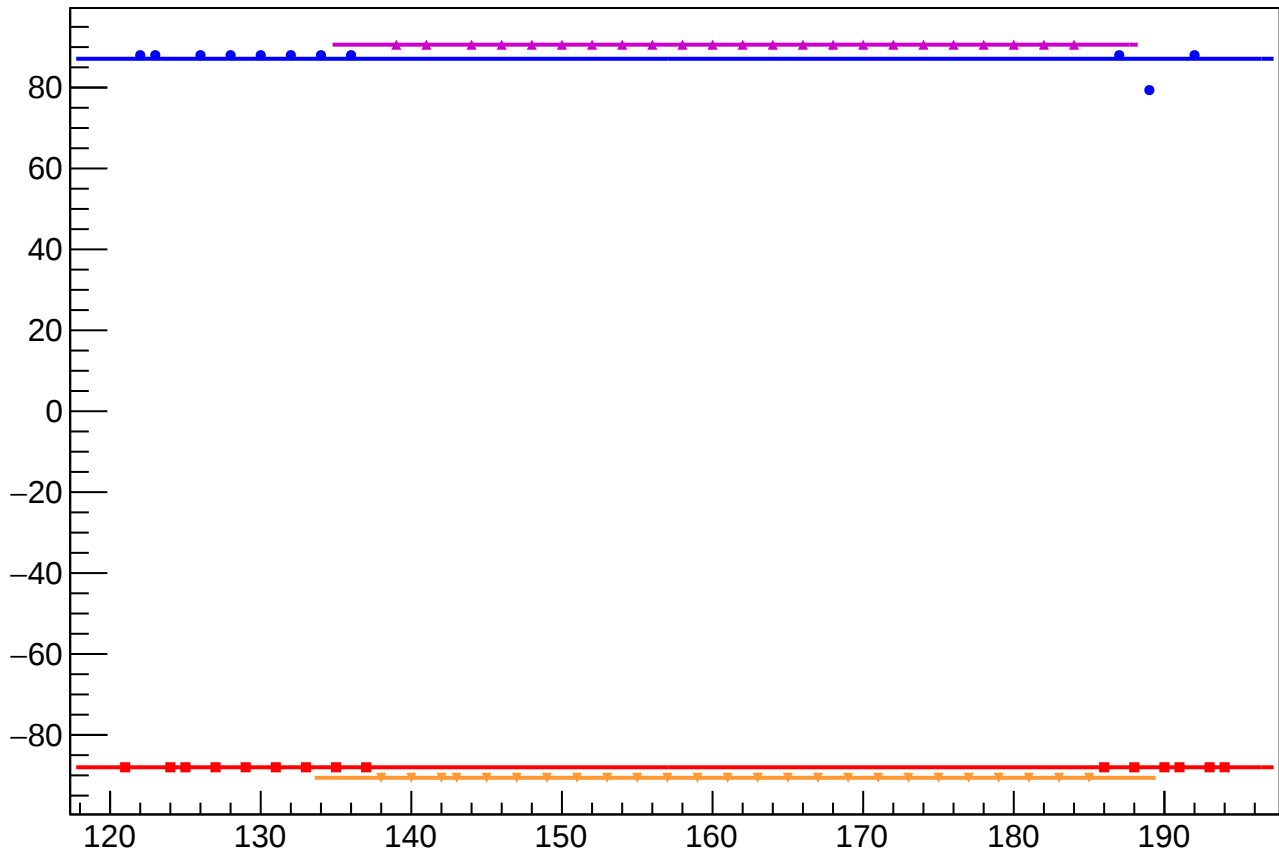
Right: 0.312 $\pm$ 0.003 χ^2 /NDF: 20245.1/44

In: 0.121 $\pm$ 0.001 χ^2 /NDF: 16568.5/42

Out: 0.154 $\pm$ 0.001 χ^2 /NDF: 17117.2/49

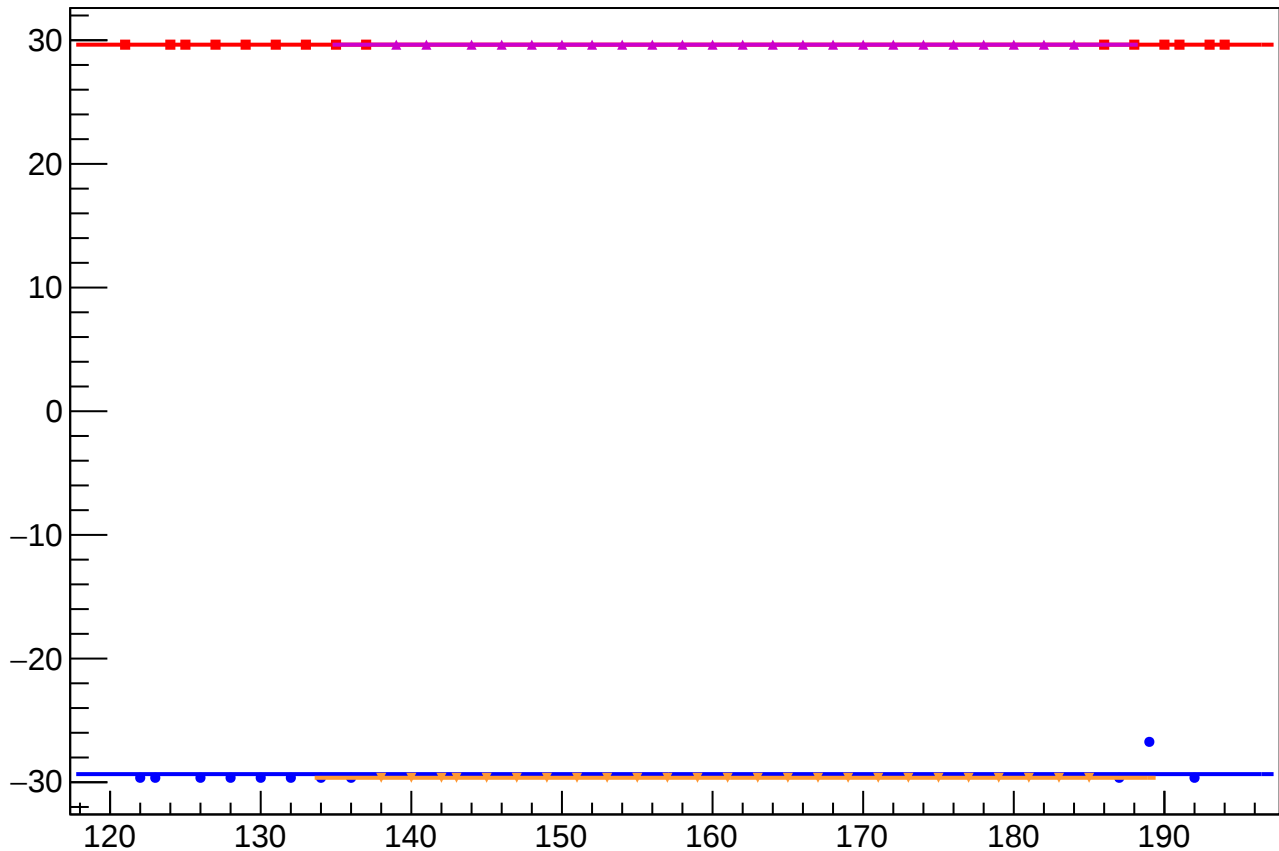
All: 0.137 $\pm$ 0.001 χ^2 /NDF: 33942.7/92

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.117 $\pm$ 0.000 χ^2 /NDF: 3407377860925098239133609625649152.0/10
 Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 6053403.0/24
 Right Out: -88.001 $\pm$ 0.000 χ^2 /NDF: 348966.8/14
 Left In: 90.599 $\pm$ 0.000 χ^2 /NDF: 5932436.0/22
 Left: -2.410 $\pm$ 0.000 χ^2 /NDF: 30521213250005045
 Right: -13.654 $\pm$ 0.000 χ^2 /NDF: 879152804121556
 In: 89.848 $\pm$ 0.000 χ^2 /NDF: 814341452161586440
 Out: -89.921 $\pm$ 0.000 χ^2 /NDF: 3367854897066095
 All: -5.105 $\pm$ 0.000 χ^2 /NDF: 3942548667008

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.343+/-0.000

χ^2/NDF : 386567212910206065529992226275328.0/10

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

Right: 4.599+/-0.000 χ^2/NDF : 99739935834178021

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

In: 16.919+/-0.000 χ^2/NDF : 135929278810919574

Right Out: 29.641+/-0.000

χ^2/NDF : 773563.3/14

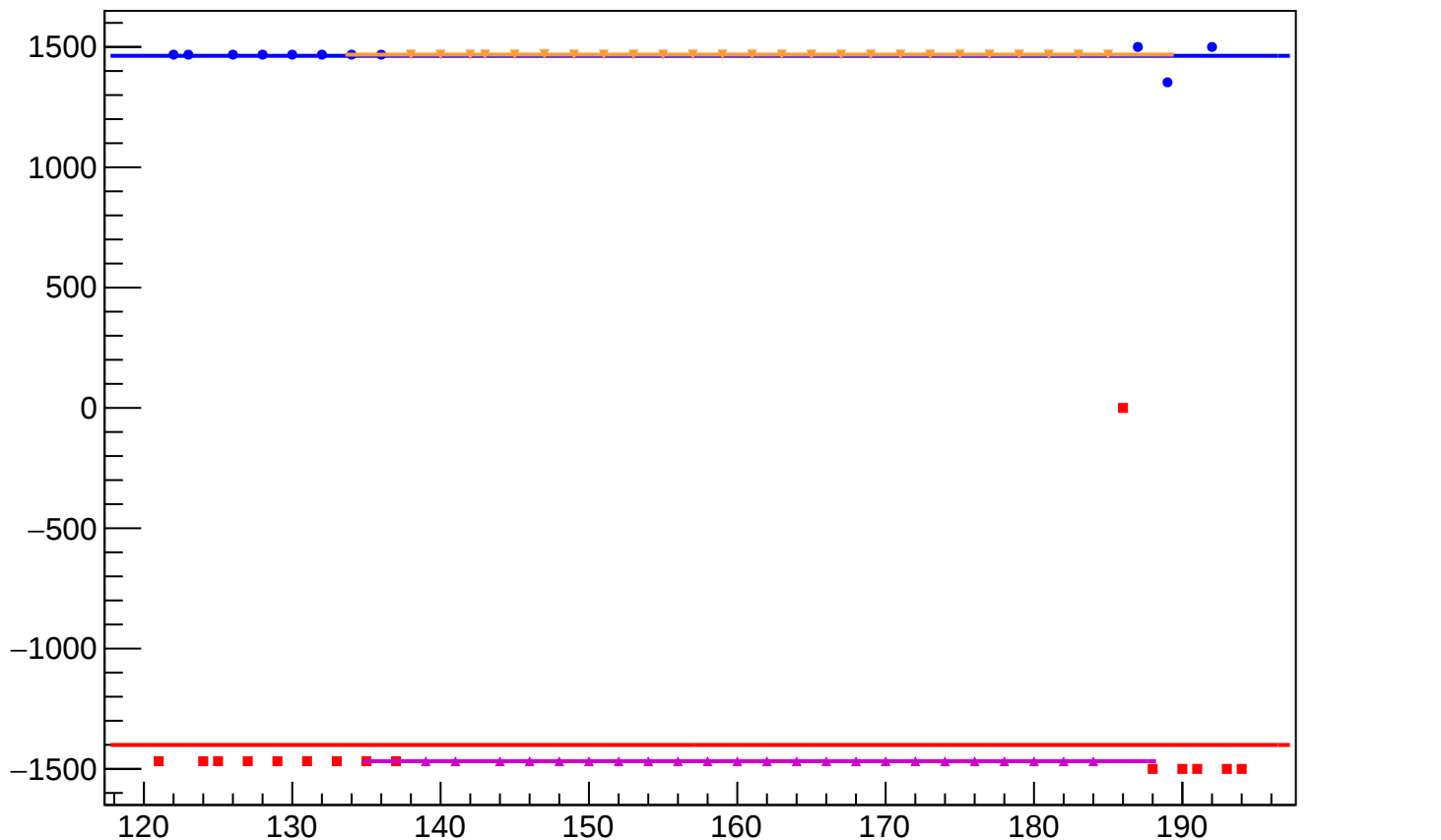
Out: -14.161+/-0.000 χ^2/NDF : 1752724216617322

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

All: 0.503+/-0.000 χ^2/NDF : 42901360983909

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1463.143+/-0.000

$\chi^2/\text{NDF}: 774005490050963320366919457896923136.0/10$

Left Out: 1468.048+/-0.000

$\chi^2/\text{NDF}: 127960980922965975039069502046208.0/24$

Right Out: -1400.519+/-0.000

$\chi^2/\text{NDF}: 79143781585723859106983667304178384896.0/14$

Left In: -1467.994+/-0.000

$\chi^2/\text{NDF}: 145848702340275035310993178624.0/22$

Left: 39.085+/-0.000 $\chi^2/\text{NDF}: 80133946076775322.0/10$

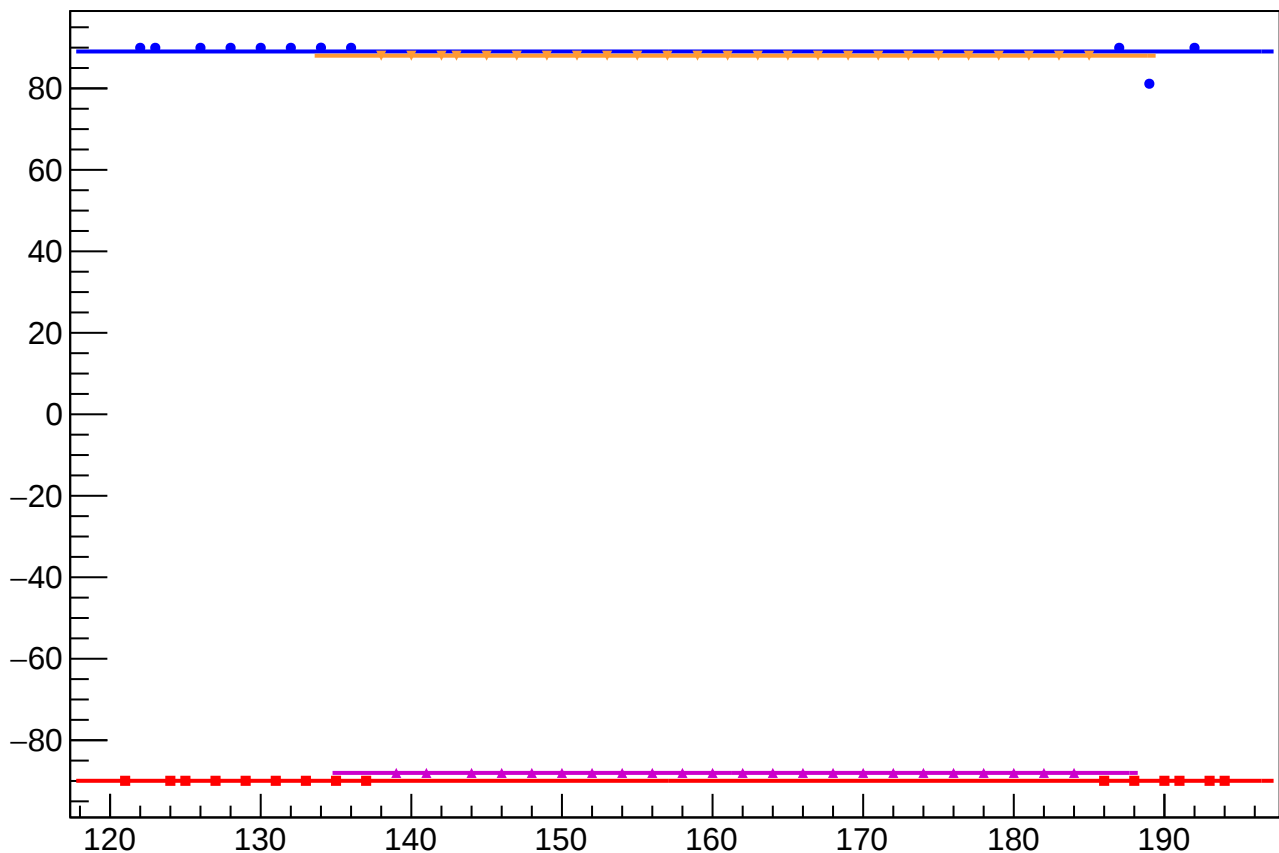
Right: -184.744+/-0.000 $\chi^2/\text{NDF}: 24299748259572.0/10$

In: -835.813+/-0.000 $\chi^2/\text{NDF}: 3356572967104712.0/10$

Out: 719.002+/-0.000 $\chi^2/\text{NDF}: 4183134750698685.0/10$

All: -14.563+/-0.000 $\chi^2/\text{NDF}: 104880508028.0/10$

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.057+/-0.000

χ^2/NDF : 3562014479714373488729666216787968.0/10

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 2135200.3/14

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

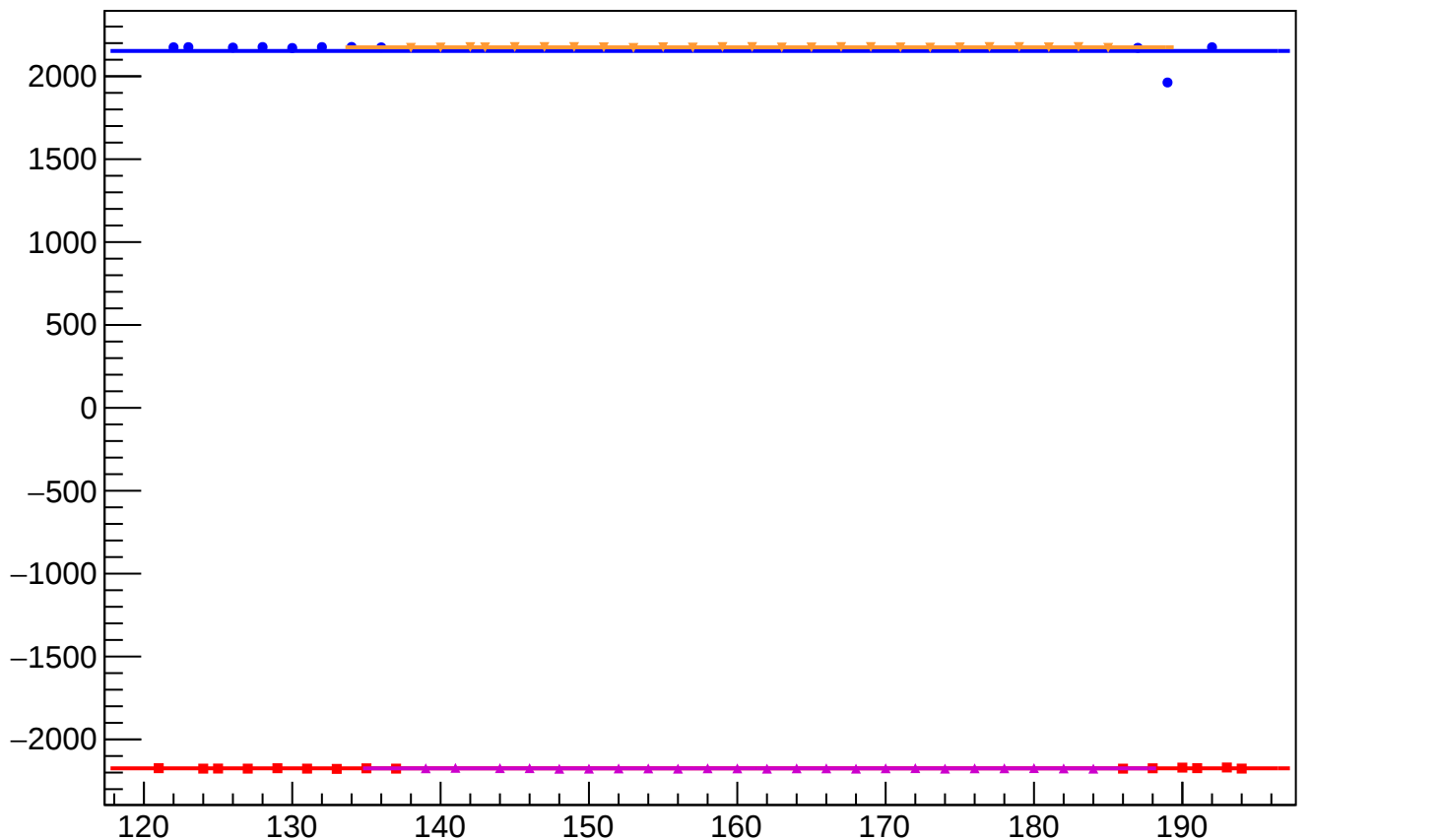
Right: -13.957+/-0.000 χ^2/NDF : 918736574009457

In: -49.829+/-0.000 χ^2/NDF : 12251246727607087

Out: 41.546+/-0.000 χ^2/NDF : 15798614334893590

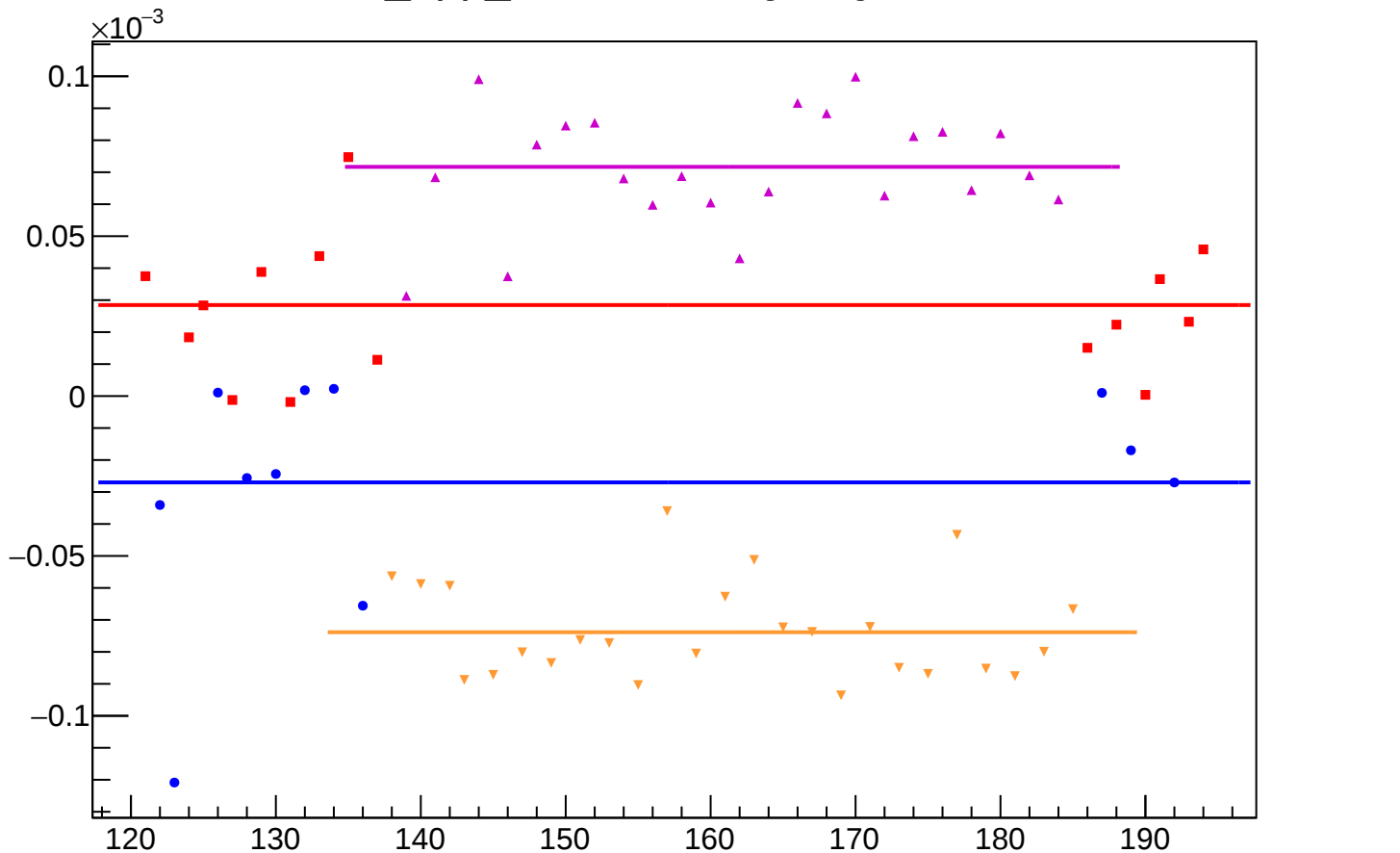
All: -1.565+/-0.000 χ^2/NDF : 3823287445411

HALLA_p_mean vs Slug, Sign Corrected



Left: 57.898+/-0.000 χ^2/NDF : 1758341875465085
 Right In: 2152.846+/-0.000 χ^2/NDF : 2057593828519138986623970285734330368.0/10
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.333+/-0.000 χ^2/NDF : 3929203543902501868735915156832256.0/14
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: -36.804+/-0.000 χ^2/NDF : 230906397768

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000

χ^2/NDF : 269004355878513398513664.0/10

Left: -0.000 ± 0.000

χ^2/NDF : 20702696564433151

Right: 0.000 ± 0.000

χ^2/NDF : 14179784506106905

Left Out: -0.000 ± 0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000 ± 0.000

χ^2/NDF : 4634610399256213960

Right Out: 0.000 ± 0.000

χ^2/NDF : 267457499269542327615488.0/14

Out: -0.000 ± 0.000

χ^2/NDF : 59395420005050994

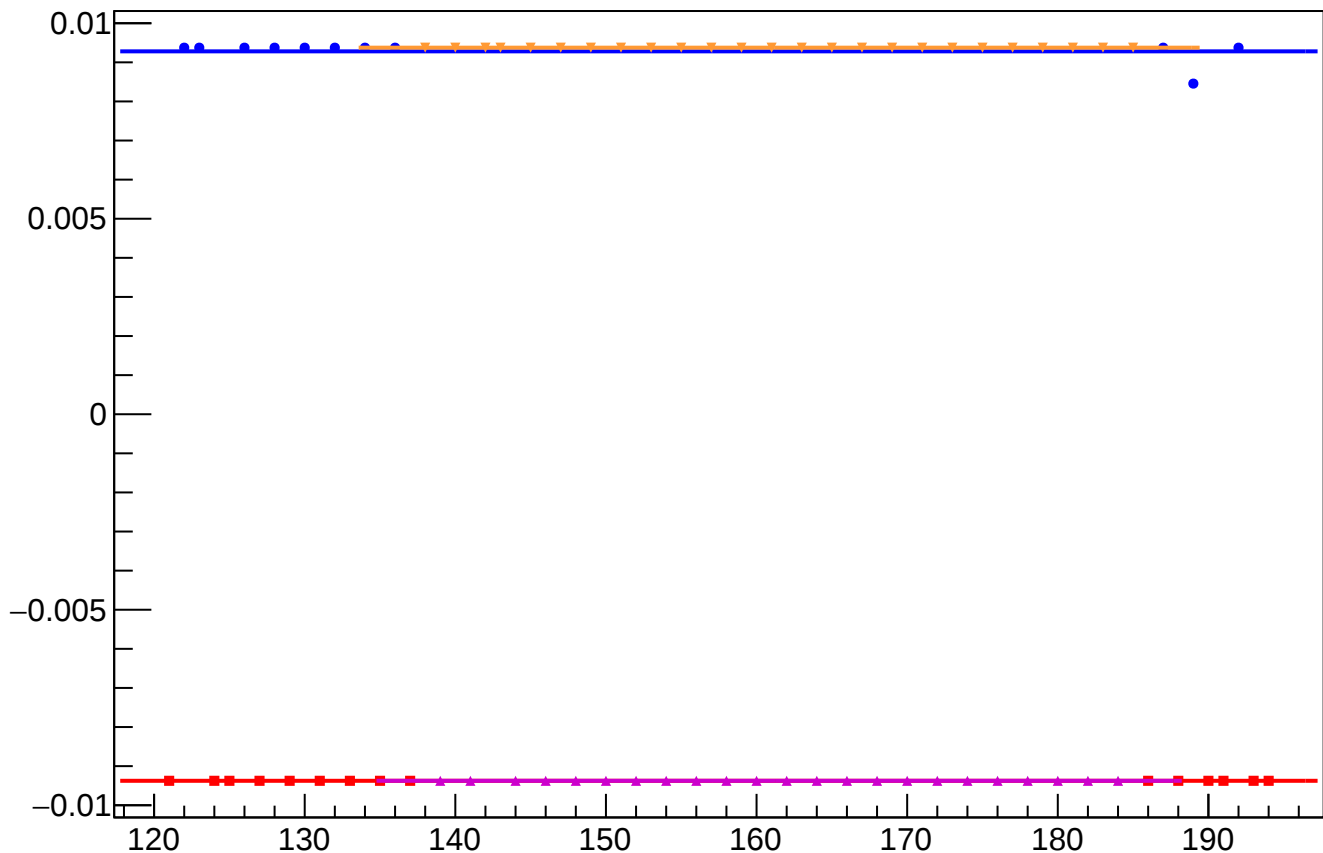
Left In: 0.000 ± 0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000 ± 0.000

χ^2/NDF : 2217692411688

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/14

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 9977796315537068

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

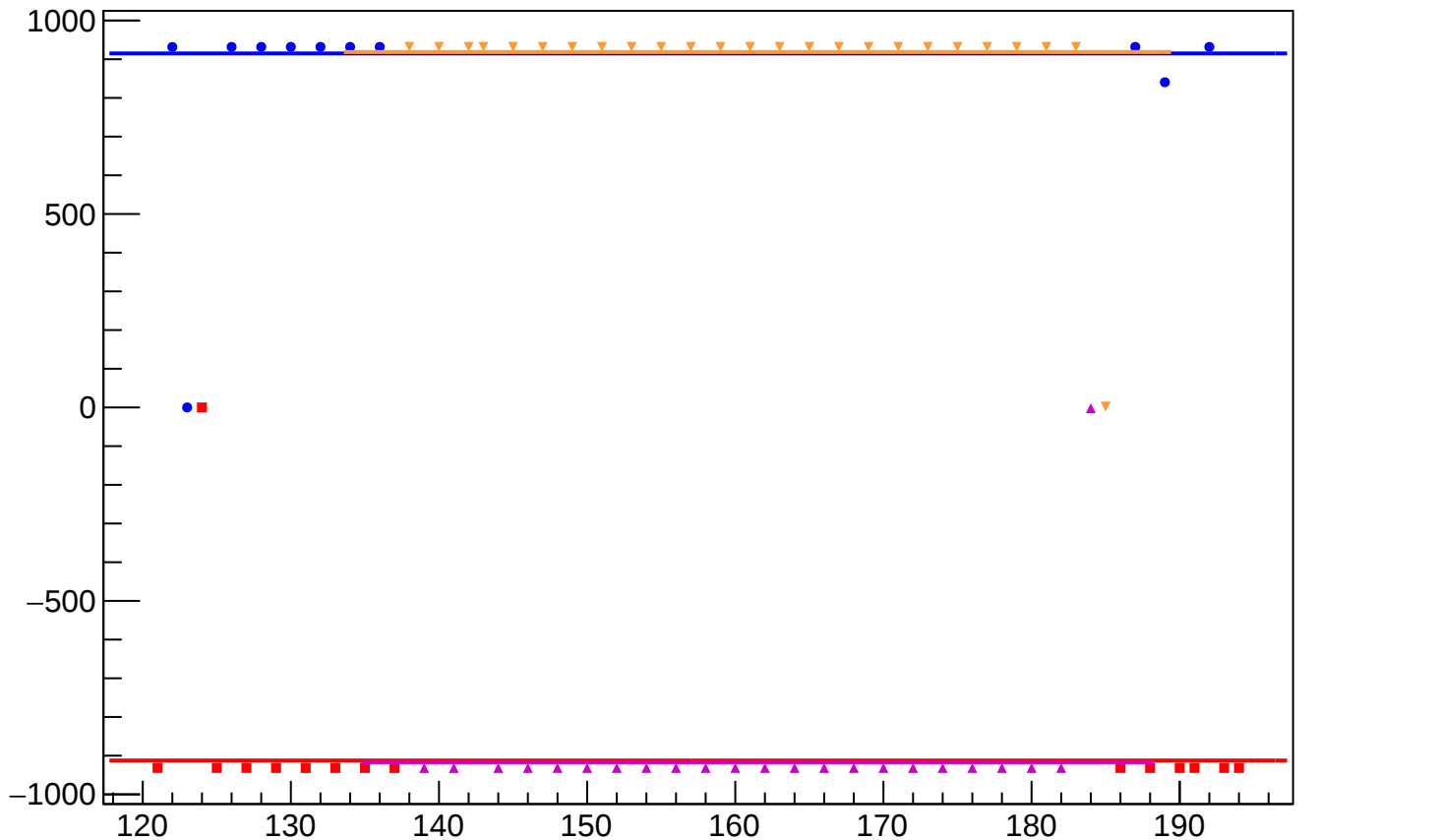
Out: 0.004+/-0.000

χ^2/NDF : 175339246856866154

All: -0.000+/-0.000

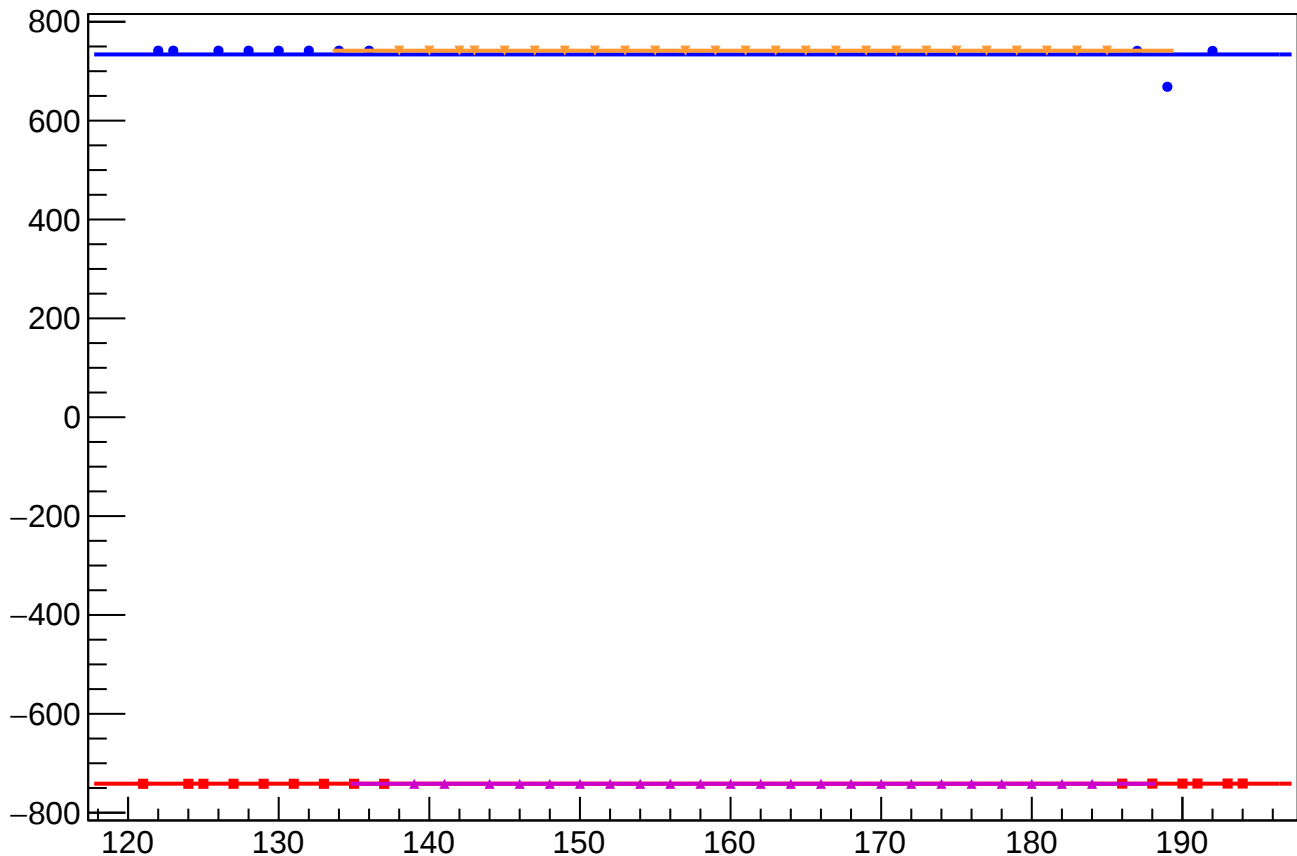
χ^2/NDF : 4291771776036

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



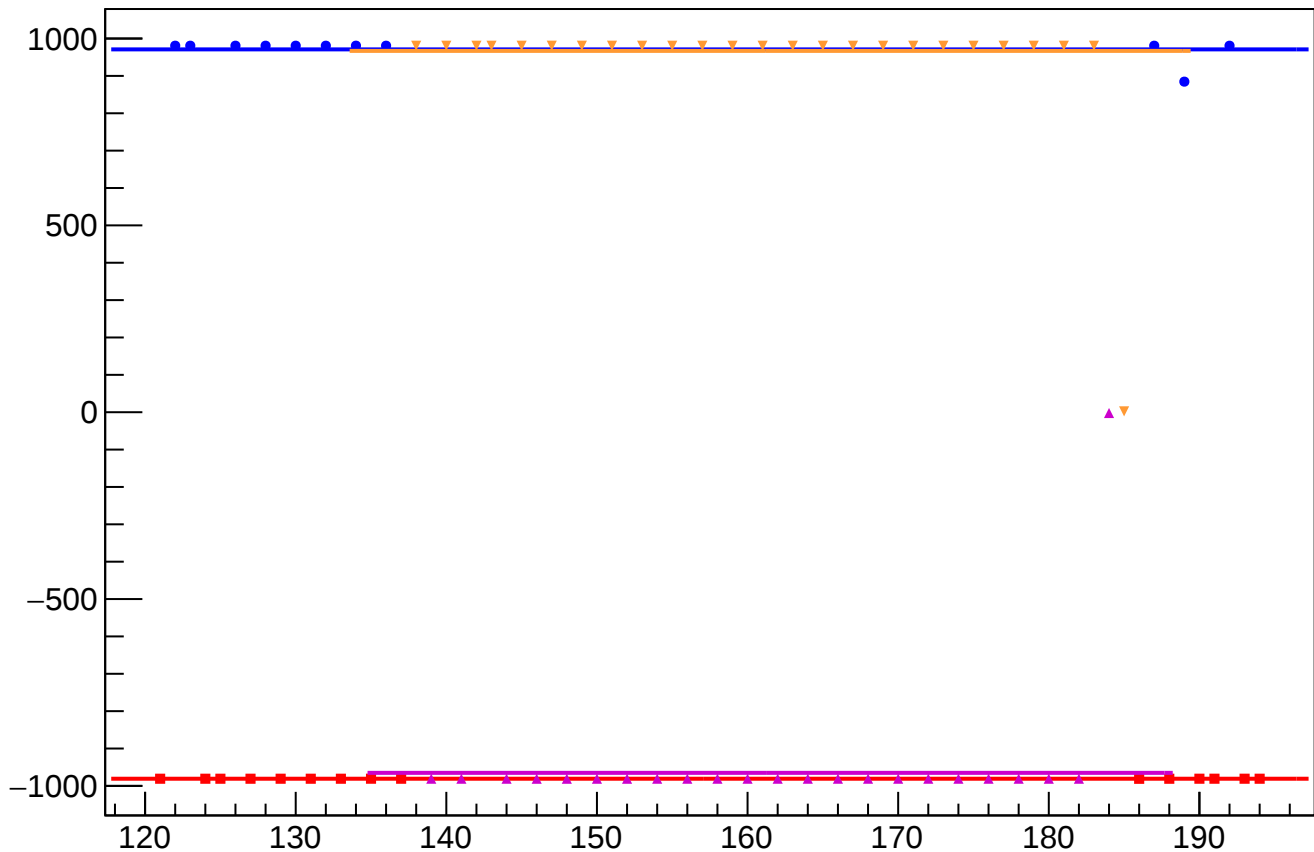
Right In: 914.963+/-0.000 χ^2/NDF : 3756791630081143838506826258861522944.0/10
 Left Out: 918.645+/-0.000 χ^2/NDF : 23003498704056084939752432521336324096.0/24
 Right Out: -912.492+/-0.000 χ^2/NDF : 11903045653083517487396082673180999680.0/14
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: -13.518+/-0.000 χ^2/NDF : 417572188276

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 733.944+/-0.000	χ^2/NDF : 243367117013055334110279787136155648.0/10	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: -114.979+/-0.000	χ^2/NDF : 62392105818367
Right Out: -741.295+/-0.000	χ^2/NDF : 34176201228776484349865386573824.0/14	In: -423.289+/-0.000	χ^2/NDF : 8505523618069402
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 354.319+/-0.000	χ^2/NDF : 1096595580699560
	All: -12.558+/-0.000		χ^2/NDF : 268461459160

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 970.968+/-0.000

χ^2/NDF : 423444567912434199331361627679227904.0/10

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.834+/-0.000

χ^2/NDF : 2205575238634965497410670821376.0/14

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: -16.239+/-0.000 χ^2/NDF : 464341610488

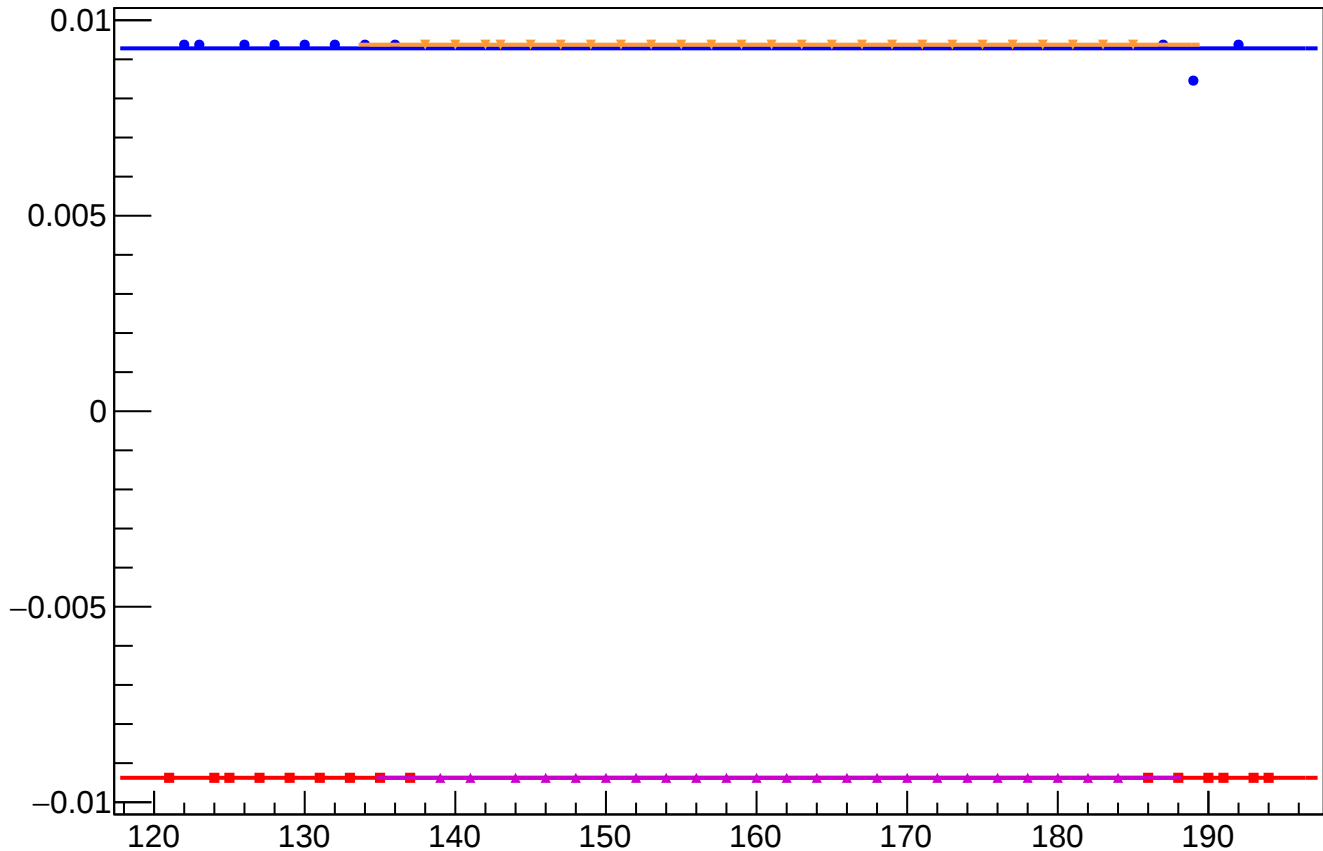
Left: 26.619+/-0.000 χ^2/NDF : 3522768429667559

Right: -152.192+/-0.000 χ^2/NDF : 10921322734202

In: -547.535+/-0.000 χ^2/NDF : 1491838076437168

Out: 458.331+/-0.000 χ^2/NDF : 1917620414732947

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/14

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 9977796315537068

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

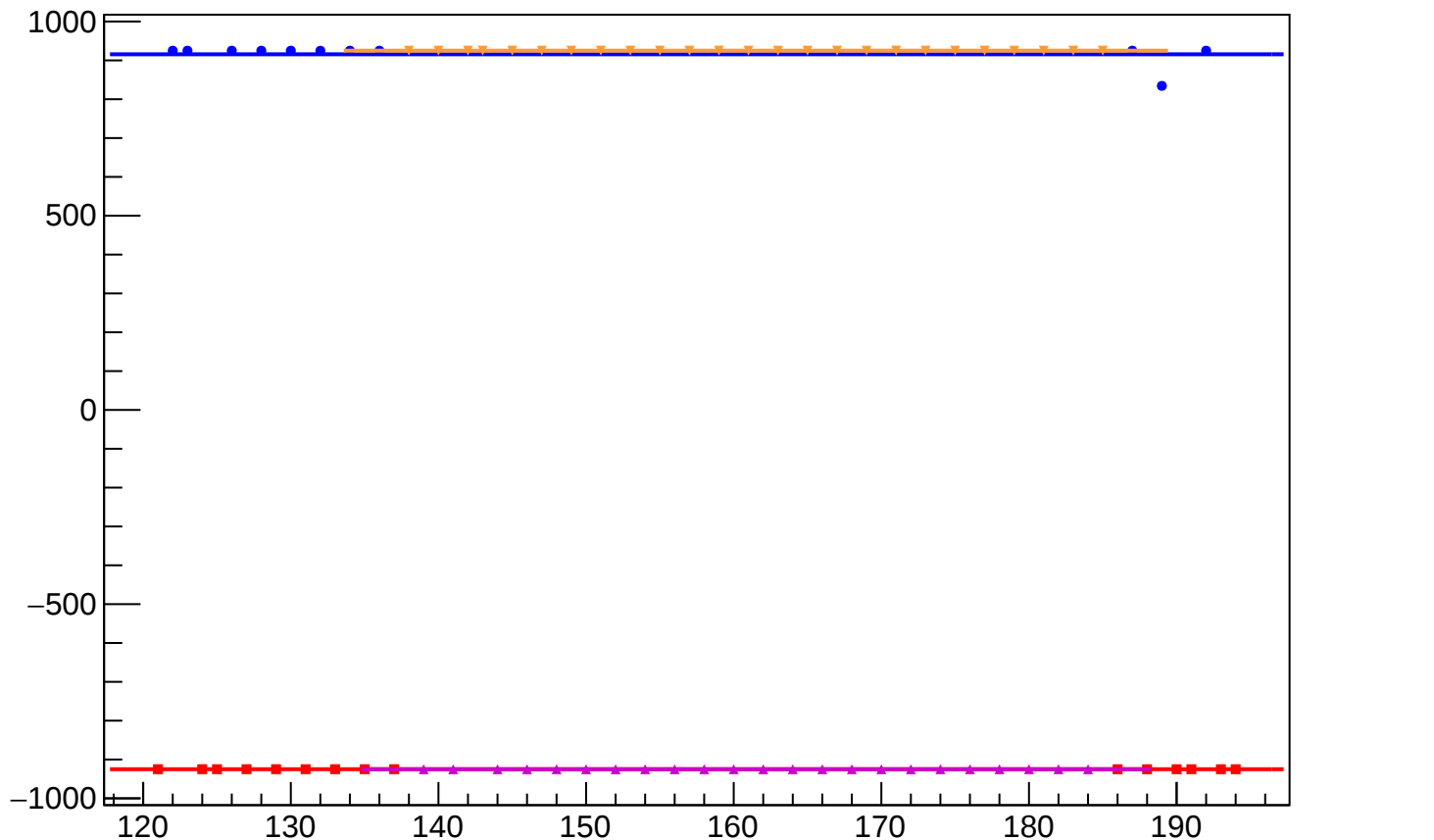
Out: 0.004+/-0.000

χ^2/NDF : 175339246856866154

All: -0.000+/-0.000

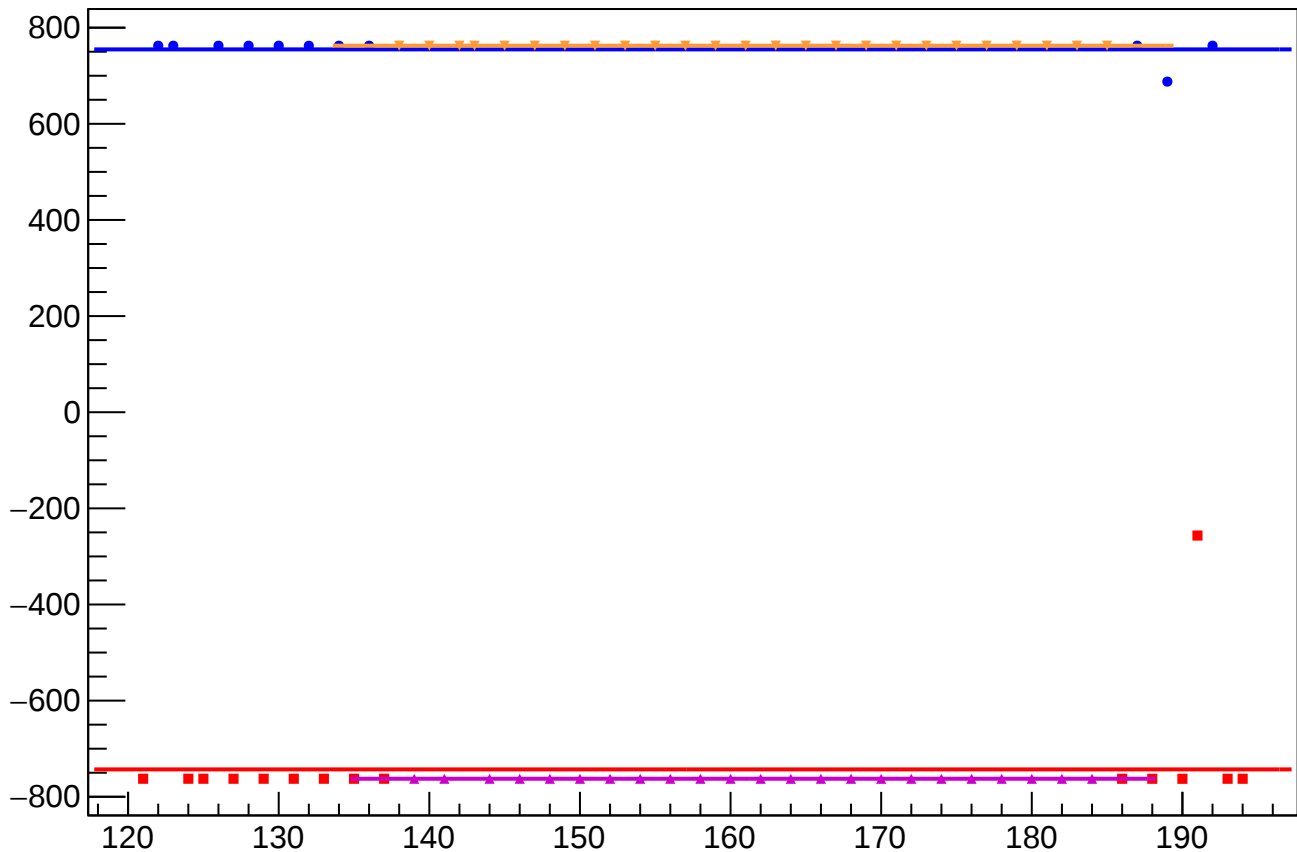
χ^2/NDF : 4291771776036

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



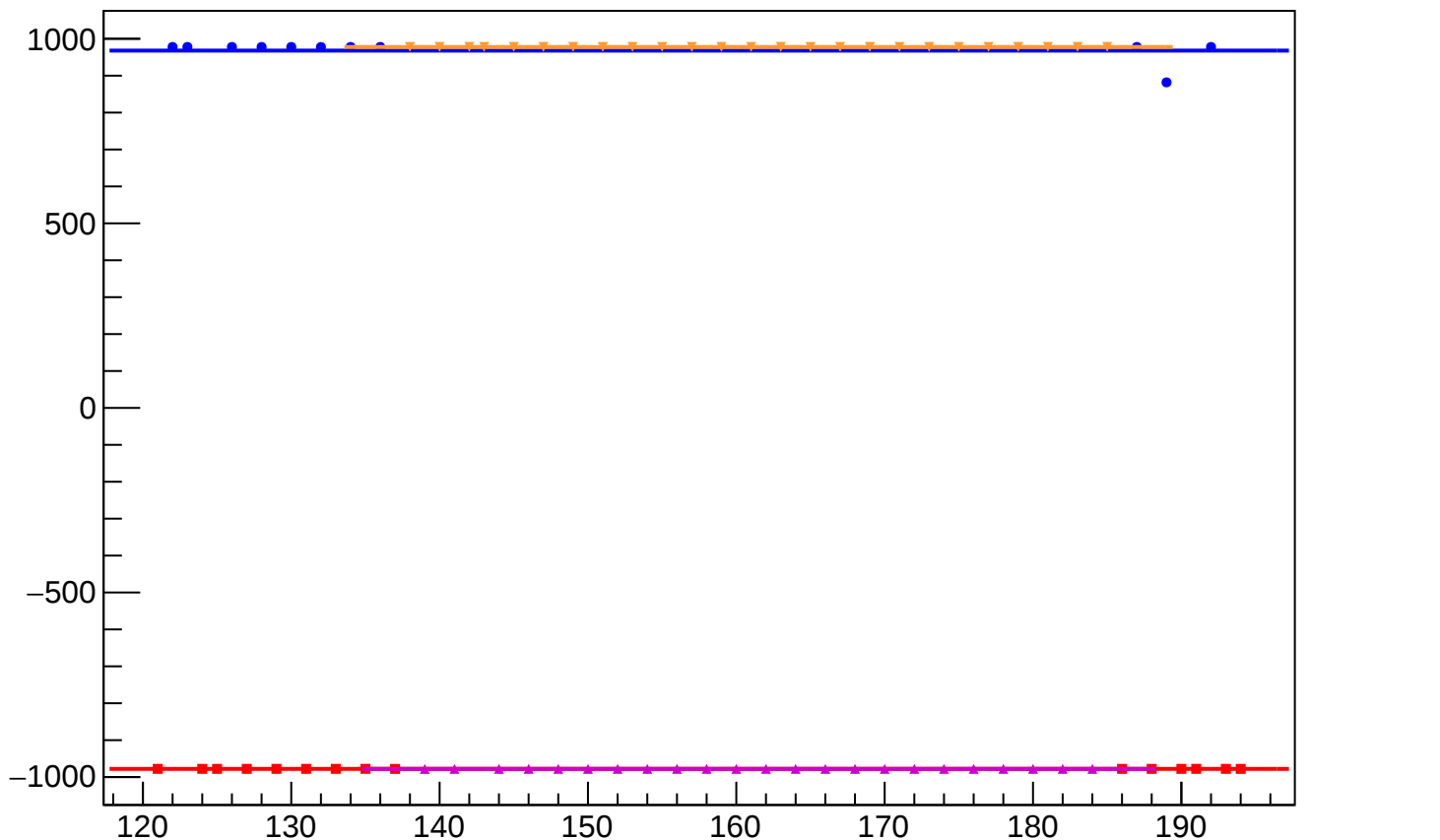
Right In: 915.676+/-0.000	χ^2/NDF : 375884890430723301501999086619852800.0/10	Left: 24.610+/-0.000	χ^2/NDF : 31814082693920915
Left Out: 924.983+/-0.000	χ^2/NDF : 1041831865443970524066476982272.0/24	Right: -143.530+/-0.000	χ^2/NDF : 97129817842363
Right Out: -924.988+/-0.000	χ^2/NDF : 667869139607952282907245019136.0/14	In: -527.994+/-0.000	χ^2/NDF : 1323713511139434
Left In: -924.983+/-0.000	χ^2/NDF : 888539224321534960792212865024.0/22	Out: 441.915+/-0.000	χ^2/NDF : 1706893430353711
		All: -15.690+/-0.000	χ^2/NDF : 417791991706

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 754.848+/-0.000 χ^2/NDF : 255335025612225496360523797039677440.0/10
 Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24
 Right Out: -743.040+/-0.000 χ^2/NDF : 6399977791819170497402919828548747264.0/14
 Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22
 All: -10.247+/-0.000 χ^2/NDF : 282609138105

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 967.936+/-0.000

χ^2/NDF : 420393013582034299669496529428676608.0/10

Left Out: 977.738+/-0.000

χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.755+/-0.000

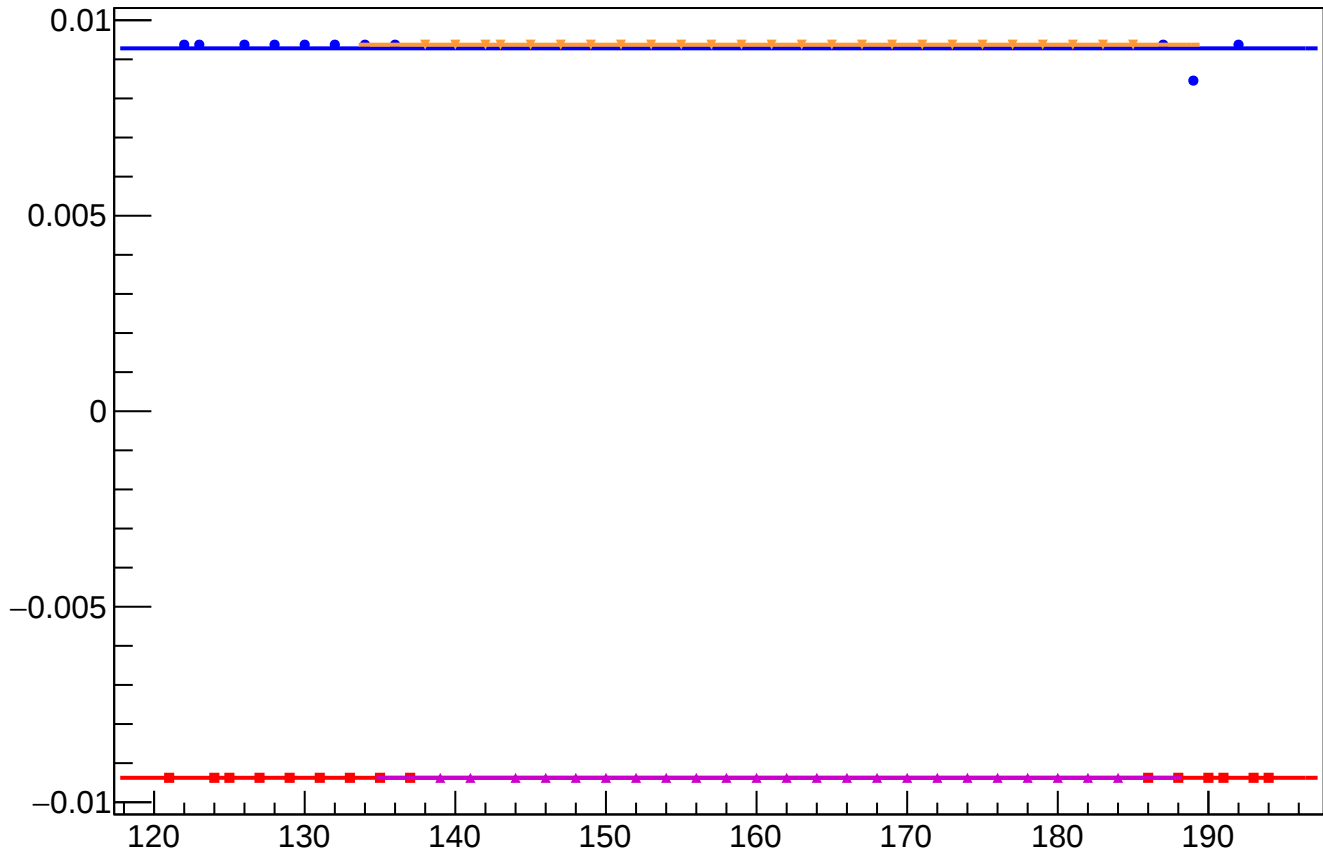
χ^2/NDF : 1076254059334422706405341396992.0/14

Left In: -977.735+/-0.000

χ^2/NDF : 976503887937607318263199432704.0/22

All: -16.582+/-0.000 χ^2/NDF : 466811284488

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/14

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 9977796315537068

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

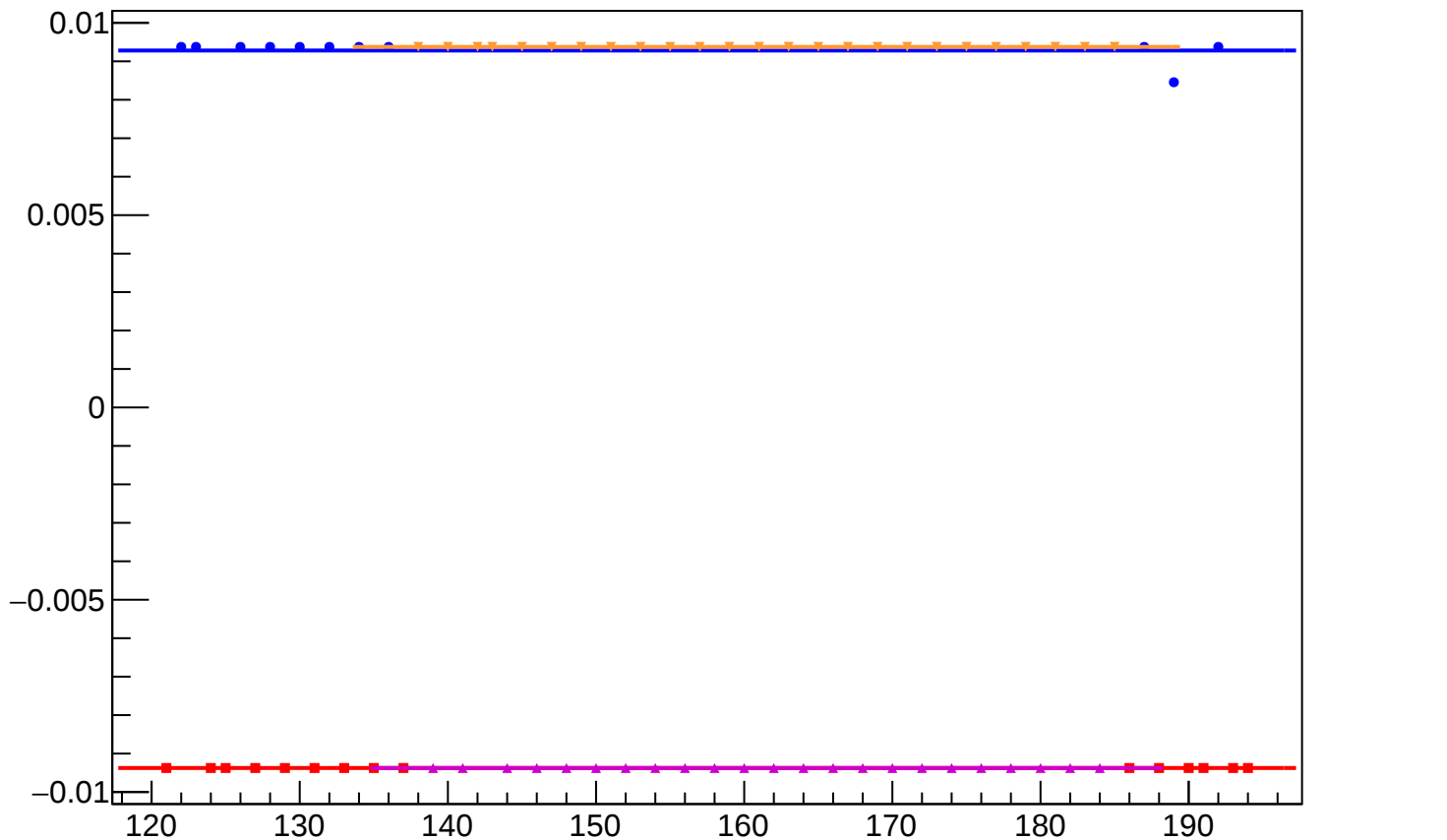
Out: 0.004+/-0.000

χ^2/NDF : 175339246856866154

All: -0.000+/-0.000

χ^2/NDF : 4291771776036

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/14

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 9977796315537068

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

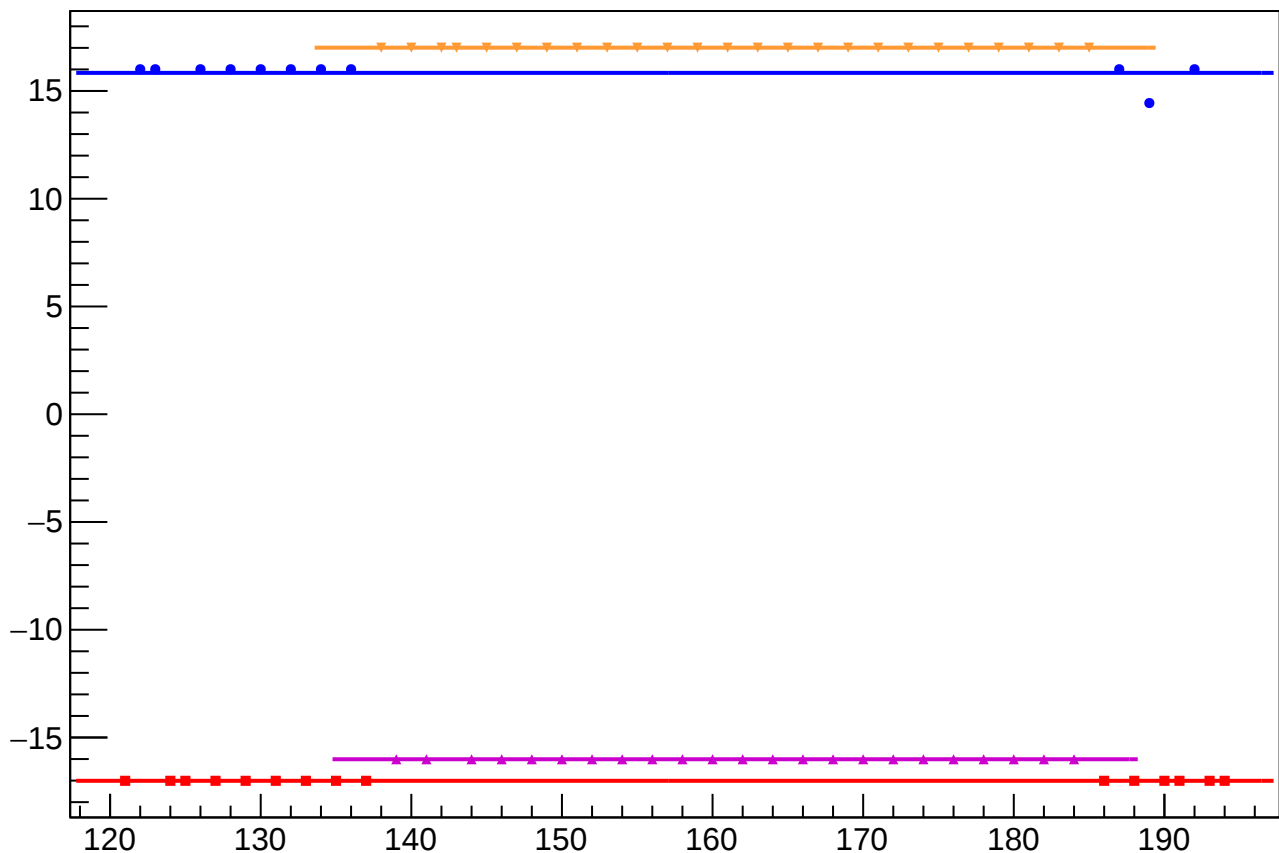
Out: 0.004+/-0.000

χ^2/NDF : 175339246856866154

All: -0.000+/-0.000

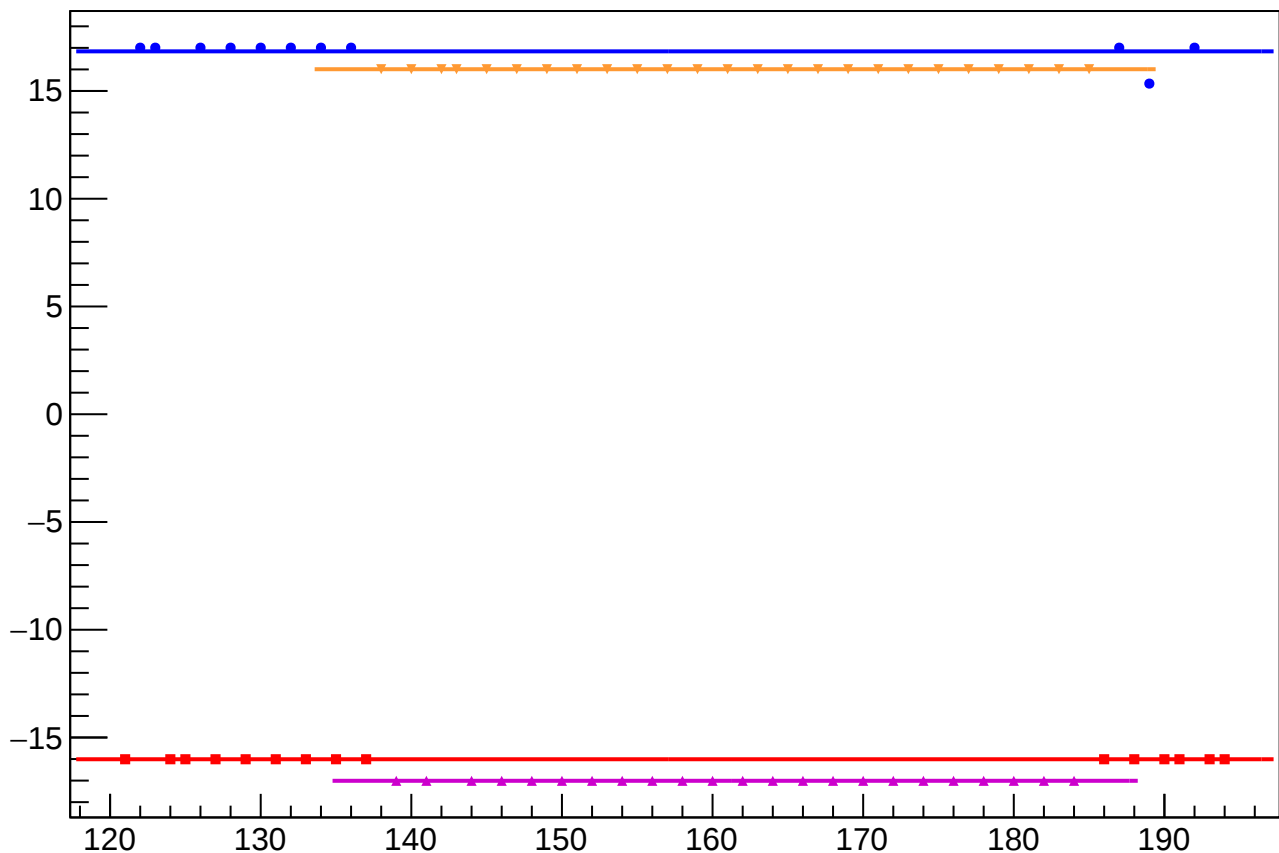
χ^2/NDF : 4291771776036

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



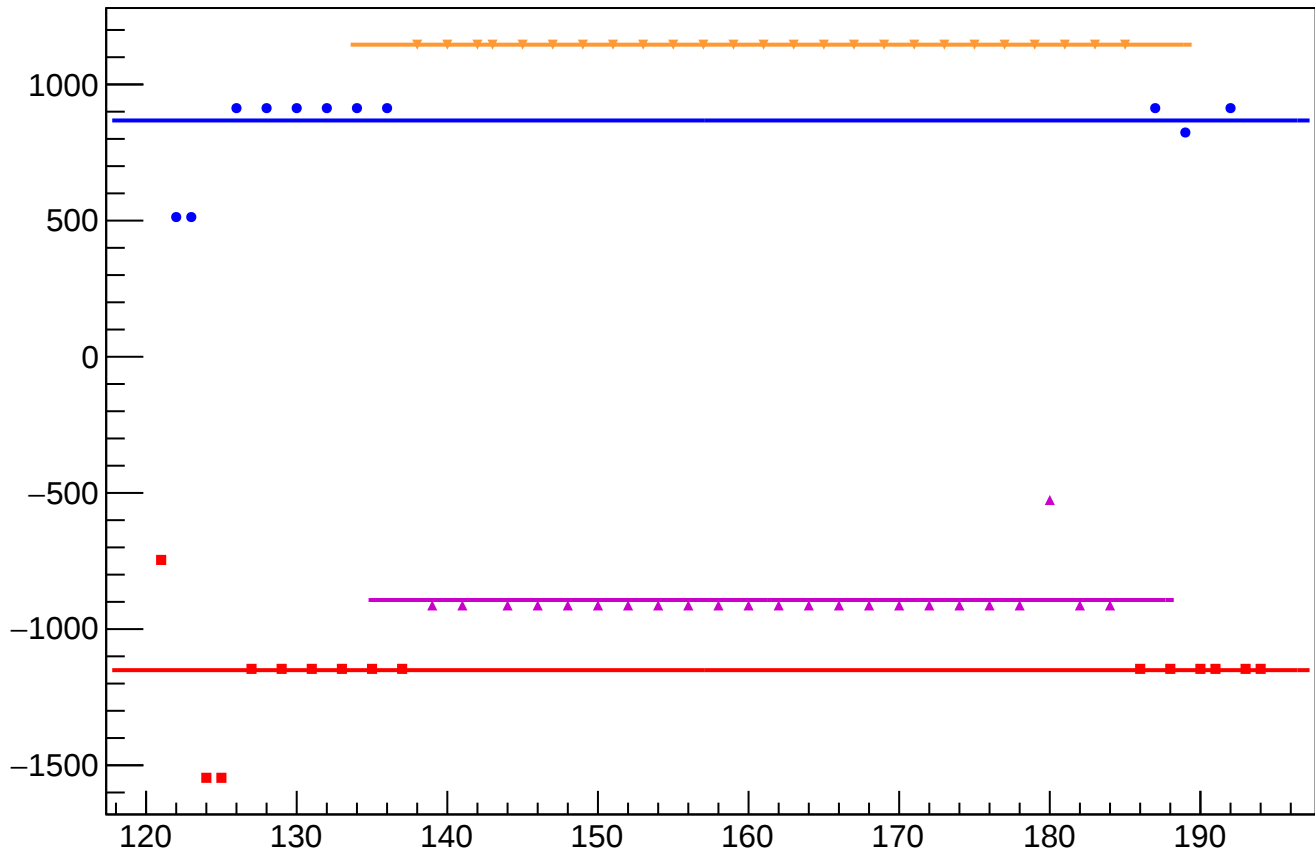
Right In: 15.840 ± 0.000 $\chi^2/\text{NDF}: 112062081465969324770608831004672.0/10$
 Left Out: 17.009 ± 0.000 $\chi^2/\text{NDF}: 26284444608576238643052544.0/24$
 Right Out: -17.009 ± 0.000 $\chi^2/\text{NDF}: 12246271882223308763037696.0/14$
 Left In: -16.009 ± 0.000 $\chi^2/\text{NDF}: 127973174512756677672960.0/22$
 All: -0.106 ± 0.000 $\chi^2/\text{NDF}: 1254031129164$

IGL1I00OD16_16_mean vs Slug, Sign Corrected



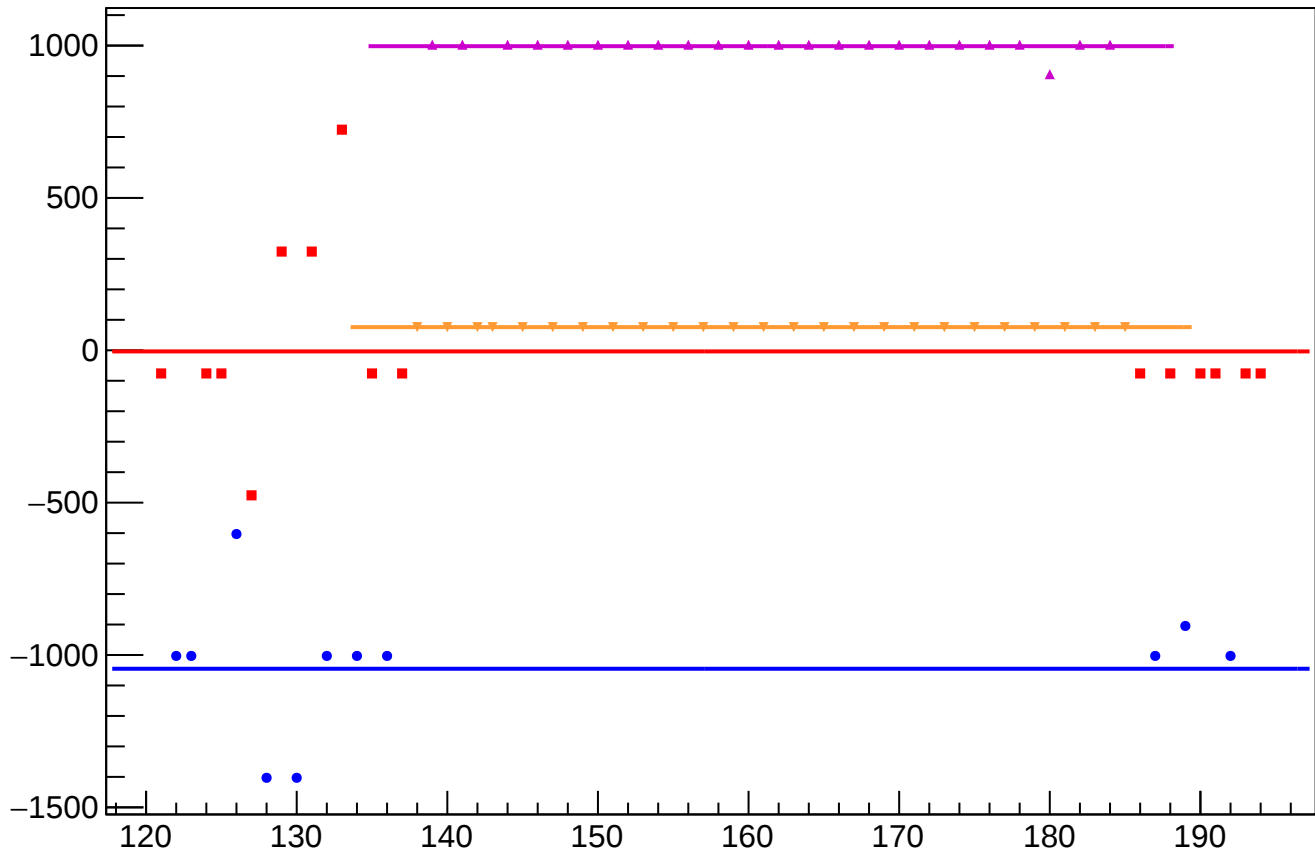
Right In: 16.839+/-0.000	χ^2/NDF : 127298921703587428491418606239744.0/10	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -2.064+/-0.000	χ^2/NDF : 3093363922705037
Right Out: -16.009+/-0.000	χ^2/NDF : 178383.5/14	In: -9.564+/-0.000	χ^2/NDF : 445177405650196535
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 7.570+/-0.000	χ^2/NDF : 509617847542617130
		All: -0.470+/-0.000	χ^2/NDF : 1307587100429

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 153.574+/-0.000 χ^2/NDF : 3878499194076111
 Right In: 867.682+/-0.000 χ^2/NDF : 6586179989374299032475669534202658816.0/10
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right: -293.821+/-0.000 χ^2/NDF : 11878501253242
 In: -513.351+/-0.000 χ^2/NDF : 1230802697540023
 Right Out: -1150.751+/-0.000 χ^2/NDF : 13745492009467254785936395826381193216.0/14
 Out: 546.276+/-0.000 χ^2/NDF : 2644671954794153
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 46.342+/-0.000 χ^2/NDF : 5244864249267

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1045.128+/-0.000

χ^2/NDF : 22808502133777497764487577913993986048.0/10

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: -3.714+/-0.000

χ^2/NDF : 43511650877114488946233768310002941952.0/14

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

In: 557.359+/-0.000 χ^2/NDF : 1654145165070553

Out: 55.193+/-0.000 χ^2/NDF : 46681680461669126

All: 292.116+/-0.000 χ^2/NDF : 200837577554